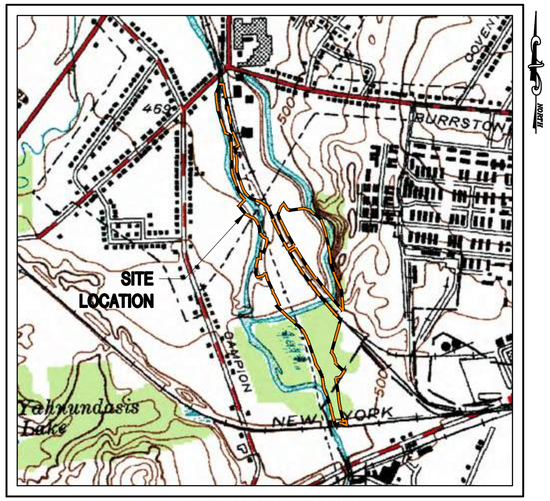
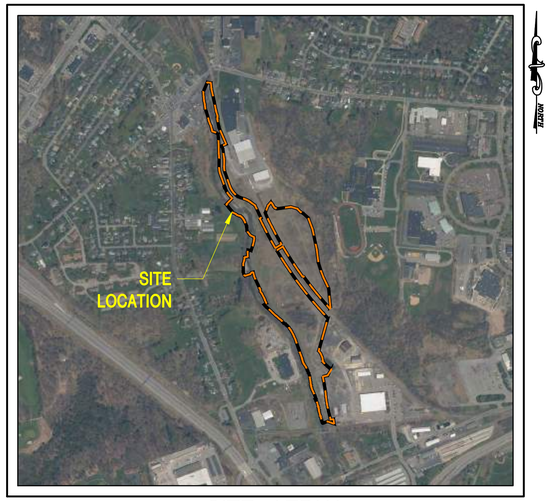


LOCATION PLAN

SCALE: 1"=800'

RAYHILL MEMORIAL TRAIL REMEDIATION

TOWN OF NEW HARTFORD, ONEIDA COUNTY, NEW YORK AUGUST, 2025



SITE AERIAL

SCALE: 1"=800'

TOWN OF NEW HARTFORD TOWN BOARD

PAUL A. MISCIONE, TOWN SUPERVISOR

MEMBERS

ANTHONY J. TREVISANI, DEPUTY SUPERVISOR
JAMES J. MESSA, COUNCILOR
JOHN LATINI, COUNCILOR
DAVID M. REYNOLDS, COUNCILOR
DAVID TEHAN, COUNCILOR

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811 Know what's below. Call before you dig.

NOTIFY 811 AT LEAST FORTY-EIGHT (48) HOURS, EXCLUDING THE DAY OF THE NOTIFICATION, BEFORE ANY GROUND DISTURBANCE AND HAVE THE UNDERGROUND UTILITIES MARKED OUT. WAIT FOR THE AFFECTED UTILITY OPERATORS TO RESPOND, AND THEN CONFIRM THE UTILITIES HAVE BEEN ACCURATELY LOCATED. RESPECT THE IDENTIFIED LOCATIONS AND USE ACCORDINGLY. TAKING PRECAUTIONS, ESPECIALLY WITHIN THE KNOWN TOLERANCE ZONE, IN THE EVENT MARK OUTS CANNOT BE MAINTAINED AND/OR EXISTING INFORMATION CONTINUES LONGER THAN TEN (10) DAYS, NOTIFY 811 AND REQUEST A REMARK.

ENGINEER OF RECORD

DUNN & SGROMO ENGINEERS
5800 HERITAGE LANDING DRIVE
EAST SYRACUSE, NEW YORK 13057
T: (315)449-4940 F: (315)449-4941

STATE OF NEW YORK GREGORY SGROMO 073282 LICENSED PROFESSIONAL ENGINEER FOR BIDDING

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GENERAL NOTES

1. ALL WORK WITHIN THE BANKFULL LIMITS OF SAUQUOIT CREEK REQUIRES PERMITTING FROM NYSDEC AND USACE, AND IS SUBJECT TO ALL PERMIT CONDITIONS. NO CREEK WORK IS PERMITTED BETWEEN SEPTEMBER 1ST AND MAY 15TH. WORK WITHIN THE LIMITS OF THE CREEK WILL BEGIN ON MAY 16TH OF 2026.

2. THE STREAM SHALL BE PROTECTED AT ALL TIMES DURING THE COURSE OF THE PROJECT FROM DAMAGED CAUSED BY POLLUTANTS, SEDIMENTS, DEBRIS, EQUIPMENT OR OTHER FOREIGN MATERIAL RESULTING FROM THE CONSTRUCTION PROCESS. ANY DAMAGE WILL BE REMEDIATED IMMEDIATELY UPON DISCOVERY AT THE CONTRACTOR'S EXPENSE.

3. THE TOWN OF NEW HARTFORD WILL BE RESPONSIBLE FOR OBTAINING THE TEMPORARY AND PERMANENT EASEMENTS AT THE CONSTRUCTION SITE. THE CONTRACTOR WILL BE REQUIRED TO MAKE ALL THE NECESSARY ARRANGEMENTS WITH THE NYSDOT, TOWN OF NEW HARTFORD, NATIONAL GRID, NEW YORK, SUSQUEHANNA AND WESTERN RAILWAY CORPORATION AND MCCRAITH BEVERAGES FOR OBTAINING AND MAINTAINING ACCESS TO THE CONSTRUCTION SITE. PROOF OF SUCH AGREEMENT MUST BE DEMONSTRATED TO THE TOWN PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE RESTORATION OF DAMAGE TO THE NYSDOT AND MCCRAITH BEVERAGES PROPERTY RESULTING FROM CONSTRUCTION ACCESS ACTIVITIES, AND WILL HOLD THE TOWN HARMLESS FOR ANY SUCH DAMAGES.

4. THE TOWN OF NEW HARTFORD HAS OBTAINED PERMISSION FROM NEW YORK STATE DEPARTMENT OF TRANSPORTATION TO UTILIZE THEIR HIGHWAY MAINTENANCE FACILITY PROPERTY FOR CONSTRUCTION ACCESS TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING DOT AND SATISFYING THEIR REQUIREMENTS FOR USE OF THEIR PROPERTY.

5. WATER WHICH HAS BEEN USED FOR CONSTRUCTION PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSES THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL OR OTHER IMPURITIES SHALL NOT BE RETURNED DIRECTLY TO THE STREAM. A DEWATERING PLAN MUST BE SUBMITTED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AND SHALL BE ADHERED TO AT ALL TIMES. ANY DEVIATIONS FROM THIS PLAN MUST HAVE PRIOR AUTHORIZATION FROM ENGINEER, NYSDEC AND USACE.

6. DUE TO THE DETERIORATING STATE OF THE EXISTING PROJECT AREA (STREAM CORRIDOR) AND THE NATURE OF CONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THE CONSTRUCTION DOCUMENTS HAVE BEEN PREPARED BASED ON AVAILABLE INFORMATION AND THE LATEST AVAILABLE DATA COLLECTED DURING FIELD INSPECTIONS. ACTUAL FIELD CONDITIONS SHALL BE EVALUATED IMMEDIATELY BEFORE THE COMMENCEMENT OF CONSTRUCTION AND MAY VARY AND REQUIRE MODIFICATIONS TO THE CONSTRUCTION PLANS, DETAILS AND WORK QUANTITIES.

7. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT EXPRESSED WRITTEN APPROVAL OF DUNN & SGROMO ENGINEERS.

8. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE TOWN OF NEW HARTFORD AND THE TOWN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF CONSTRUCTION TO ENSURE THAT PROJECT DEADLINES ARE MET. THIS SCHEDULE MUST INCLUDE A GANTT CHART AND A CPM CHART WITH ITEMS SUCH AS TASKS, ACTIVITIES, SEQUENCING, DURATION ESTIMATES, MILESTONES AND PROJECT DEADLINES.

9. SUBMITTALS: MATERIAL SUPPLIERS SHALL SUBMIT A MINIMUM (5) COPIES OF SHOP DRAWINGS, AND SUBMITTALS FOR THE FOLLOWING ITEMS FOR REVIEW BY THE TOWN OF NEW HARTFORD'S ENGINEER. IN LIEU OF (5) HARD COPIES, (1) COPY OF DRAWINGS AND SUBMITTALS MAY BE TRANSMITTED ELECTRONICALLY. NO FABRICATION OF THESE ITEMS SHALL BE PERMITTED UNTIL THE SUBMITTALS HAVE BEEN REVIEWED AND ACCEPTED, SPECIFICALLY:

   a. GRANULAR MATERIALS
   b. LIGHT, MEDIUM AND HEAVY STONE FILLING
   c. SORTED RIP-RAP
   d. LIMESTONE BOULDERS FOR IN-STREAM STRUCTURES
   e. GEOTEXTILES & LINERS
   f. GALVANIZED REBAR PINS
   g. PLANTINGS & SEED MIXES
   h. ASPHALT (TOP COURSE AND BINDER COURSE)
   i. TOPSOIL (OFFSITE)
   j. CHAINLINK FENCE
   k. EROSION CONTROL (SILT FENCE, SAND BAGS, ETC.)
   l. RIVERSTONE
   m. SDR-35 SEWER MAIN
   n. SANITARY MANHOLES, FRAMES AND COVERS
   o. STORM MANHOLES, FRAMES AND COVERS
   p. STORM SEWER PIPING
   q. SHEETPILING (PE STAMPED PLANS)
   r. SHEETPILING WORK PLAN
   s. LOCATION, CONSTRUCTION METHODS AND MATERIALS FOR TEMPORARY CONSTRUCTION ACCESS ROAD; TEMPORARY STREAM CROSSINGS (IF REQUIRED) AND STAGING AREAS
   t. COFFERDAMS FOR STREAM DIVERSION
   u. SEWER INSTALLATION AND BY-PASS PLAN
   v. DEWATERING PLAN
   w. GALVANIZED END SECTIONS
   x. SANITARY AND STORM SEWER CONNECTIONS
   y. CAST-IN-PLACE CONCRETE, GROUTS, ETC.
   z. CONSTRUCTION SCHEDULE

10. THE FEATURES DEPICTED ON THESE PLANS ARE BASED ON A PROPERTY SURVEY PERFORMED BY PAYE LAND SURVEYING, DATED MAY 8, 2025, AND ON TOPOGRAPHIC SURVEYS PERFORMED BY DUNN & SGROMO ENGINEERS, BETWEEN THE DATES OF AUGUST 22, 2024 AND APRIL 24, 2025. ACTUAL FIELD CONDITIONS MAY VARY, ESPECIALLY ALONG THE SAUQUOIT CREEK, AND SHOULD BE VERIFIED BY THE CONTRACTOR AT THE TIME OF BIDDING AND CONSTRUCTION.

11. "UDIG NY" TO BE CONTACTED 72 HOURS PRIOR TO THE START OF ANY EXCAVATION.

12. THE CONTRACTOR SHALL:
   a. VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE OWNER OF ANY DISCREPANCIES.
   b. EXAMINE THE SITE AND INCLUDE IN HIS/HER WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK.
   c. INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARD PRACTICE.
   d. HOLD THE OWNER HARMLESS AGAINST ANY AND ALL CLAIMS ARISING FROM WORK DONE BY THE CONTRACTOR ON THE SITE.
   e. CONTRACTOR SHALL COMPLY WITH NEW YORK DEPARTMENT OF PUBLIC SERVICE, 16NYCRR PART 753, EFFECTIVE FEBRUARY 5, 1997, AMENDED JULY 10TH, 2002, JANUARY 4TH 2012 AND FEBRUARY 21, 2023.

13. THE TOWN OF NEW HARTFORD HAS PROCURED THE STREAM DISTURBANCE PERMIT REQUIRED TO COMPLETE THIS PROJECT. THE CONTRACTOR CANNOT COMMENCE ANY WORK WITHIN THE LIMITS OF THE BED AND BANKS OF THE STREAM UNTIL AUTHORIZED.

14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS, AND COORDINATE WORK WITH ALL OTHER CONTRACTORS FOR THE SITE.

15. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS.

16. THE OWNER'S REPRESENTATIVE (DUNN & SGROMO ENGINEERS) RESERVES THE RIGHT TO EXAMINE ANY WORK PERFORMED ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT.

17. ALL UTILITIES AND APPURTENANCES TO BE CONSTRUCTED IN COMPLIANCE WITH THE LOCAL MUNICIPALITIES' CODES AND REGULATIONS GOVERNING THE INSTALLATION OF SUCH UTILITIES.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUTS IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. DUNN & SGROMO ENGINEERS WILL PROVIDE SURVEY CONTROL TO THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.

19. ALL ROADS SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES. MATERIALS, EQUIPMENT AND VEHICLES ARE TO BE STORED AT THE DESIGNATED LOCATION ONSITE.

20. ALL EXCAVATIONS SHALL BE BACKFILLED TO EXISTING GRADE AT THE END OF EACH WORK DAY, OR THE OPEN EXCAVATION SHALL BE PROTECTED WITH ORANGE CONSTRUCTION FENCING.

21. CONTRACTOR SHALL PROVIDE INSURANCE CERTIFICATIONS HOLDING THE FOLLOWING HARMLESS:
   a. TOWN OF NEW HARTFORD
   b. NEW YORK STATE DEPARTMENT OF TRANSPORTATION
   c. NEW YORK, SUSQUEHANNA AND WESTERN RAILWAY CORPORATION
   d. NATIONAL GRID
   e. MCCRAITH BEVERAGES

22. ANY DEWATERING BY WELL POINTING OR PUMPING SHALL BE DISCHARGED THROUGH FILTER BAGS LOCATED IN UNDISTURBED, STABILIZED VEGETATED AREAS AT LEAST 20' FROM CREEK.

EARTHWORK NOTES

1. EXCAVATION SHALL BE TO THE ELEVATIONS INDICATED WITH A TOLERANCE OF PLUS OR MINUS 1". EXCAVATIONS SHALL BE OF SUFFICIENT SIZE FOR PLACING AND REMOVING FORMS, AS WELL AS INSPECTIONS.

2. ALL TRENCHES AND OTHER EXCAVATED SIDE SLOPES INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT INTENDED TO INDICATE A STABLE EXCAVATION SLOPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND STABILITY OF ALL EXCAVATION SLOPES, SHEETING, SHORING, TRENCH BOXES, AND ANY OTHER MEANS REQUIRED FOR A SAFE WORK ENVIRONMENT, AND FOR PROTECTION OF ADJACENT ROADWAYS AND OTHER STRUCTURES. ALL EXCAVATION WORKS SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING REGULATORY AGENCIES:
   a. SUBPART 23-4, "EXCAVATION OPERATIONS," OF NEW YORK DEPARTMENT OF LABOR INDUSTRIAL CODE RULE 23
   b. 1926 SUBPART P, "EXCAVATIONS" OF THE UNITED STATES DEPARTMENT OF LABOR OSHA SAFETY & HEALTH REGULATIONS FOR CONSTRUCTION
   c. ALL OTHER MUNICIPAL, COUNTY, STATE, OR FEDERAL AGENCIES, REGULATIONS OR LAWS PERTAINING TO EXCAVATION SAFETY AS MAY APPLY AT THE WORK SITE. THE MORE STRINGENT PROVISION IN EACH OF THE ABOVE CODES SHALL COMPLY. THESE PROVISIONS SHALL BE CONSIDERED MINIMUM REQUIREMENTS AND SHALL BE INCREASED IF NECESSARY TO PROVIDE SAFE WORKING CONDITIONS.

3. ALL NEW GRADES SHALL BE BLENDED SMOOTHLY WITH EXISTING GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN NEW GRADING AND EXISTING SURFACES TO REMAIN.

4. IT IS ANTICIPATED THAT 95% OF THE TOTAL QUANTITY OF EARTHWORK EXCAVATION WILL BE SUITABLE FOR RE-USE AS ON-SITE FILL. THE REMAINING 5% MUST BE REMOVED AND DISPOSED OF OFF-SITE AT THE CONTRACTOR'S EXPENSE.

5. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE SOIL EXPOSURE (BOTH IN TIME AND AREA) WITHIN THE WORK AREA TO REDUCE THE EROSION RISK FROM POTENTIAL STORM EVENTS UNTIL FINAL STABILIZATION CAN BE ACHIEVED. TEMPORARY AND PERMANENT RE-STABILIZATION OF ANY ERODED AREAS WILL BE REQUIRED UNTIL FINAL PROJECT COMPLETION.

6. THE CREEK BED SHOULD CONSIST OF WELL GRADED NATIVE MATERIAL CONSISTING OF RIVERSTONE COBBLES AND NATIVE SOIL.

ACCESS NOTES

1. THE LOCATION OF THE TEMPORARY ACCESS DRIVE (SEE SHEET C-8A) HAS BEEN PROVIDED. CONSTRUCTION OF THE ACCESS DRIVE WILL BE AT CONTRACTOR'S DISCRETION, INCLUDING ALL MEANS, METHODS AND MATERIALS UTILIZED. THIS ACCESS DRIVE WILL BE COMPLETELY REMOVED PRIOR TO FINAL STABILIZATION.

2. ADDITIONAL ACCESS TO WORK AREAS AROUND THE SITE WILL BE AT CONTRACTOR'S DISCRETION INCLUDING BUT NOT LIMITED TO, STABILIZED CONSTRUCTION ROADS, STREAM CROSSINGS AND TEMPORARY BRIDGES. ALL TEMPORARY ACCESS MEASURES WILL BE REMOVED PRIOR TO FINAL STABILIZATION.

3. THE NYSDEC PERMIT FOR THIS PROJECT DOES NOT INCLUDE ANY TEMPORARY STREAM CROSSINGS FOR CONSTRUCTION. ANY TEMPORARY STREAM CROSSINGS AND/OR STREAM DISTURBANCES OUTSIDE THE PROPOSED WORK LIMITS DEEMED NECESSARY BY THE CONTRACTOR MUST BE COORDINATED, APPROVED AND PERMITTED SEPARATELY AT CONTRACTOR'S EXPENSE.

NEW YORK, SUSQUEHANNA & WESTERN RAILWAY CORPORATION NOTES:

1. THE PROJECT INVOLVES WORK WITHIN THE RIGHT-OF-WAY OF THE NEW YORK SUSQUEHANNA & WESTERN RAILWAY CORPORATION PROPERTY, INCLUDING ONE CONSTRUCTION ROAD CROSSING OVER THE TRACKS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, INSURANCE, AND EXPENSES (INCLUDING THE COST OF THE CROSSING) ASSOCIATED WITH WORK WITHIN THE RAILROAD RIGHT-OF-WAY. THE BID DOCUMENTS INCLUDE DETAILS OF THE NEW YORK SUSQUEHANNA & WESTERN RAILWAY CORPORATION PERMIT REQUIREMENTS, COSTS AND CONDITIONS.

2. A RAILROAD FLAGGER IS REQUIRED FOR ALL WORK THAT OCCURS WITHIN THE RAILROAD RIGHT-OF-WAY, THE COST OF WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR.

3. NEW YORK, SUSQUEHANNA & WESTERN RAILWAY CORPORATION WILL INSTALL THE PORTION OF THE CONSTRUCTION ACCESS ROAD CROSSING OVER THE RAILS AND TIES. THE COST OF THIS CROSSING WILL BE PAID FOR BY THE TOWN OF NEW HARTFORD. THE CONSTRUCTION ACCESS ROAD WILL BE GRADED BY THE CONTRACTOR TO MEET THE INSTALLED CROSSING.

4. IF AT ANYTIME THE CONTRACTOR PERFORMS WORK WITHIN 10' OF THE RAILROAD TRACKS, THEY MUST COORDINATE THIS WORK WITH NEW YORK, SUSQUEHANNA & WESTERN RAILWAY CORPORATION, AND ADHERE TO ALL REQUIREMENTS AND REGULATION IMPOSED. ALL EXPENSES WILL BE THE CONTRACTOR'S RESPONSIBILITY INCLUDING A $2000 PER DAY FEE TO PROTECT THE TRACK & TRAIN MOVEMENTS.

RIPRAP NOTES

1. ALL RIPRAP SHALL BE SOUND, CLEAN STONE FILLING MATERIAL AS SPECIFIED IN NYSDOT STANDART SPECIFICATION 733-22.

2. ALL RIPRAP SHALL BE MACHINE OR HAND PLACED AND CHINKED TO PROVIDE A UNIFORM FINISH SURFACE TRUE TO THE GRADES INDICATED ON THE DRAWINGS. STONE SIZES SHALL BE EVENLY DISTRIBUTED THROUGHOUT.

3. THE MINIMUM LAYER THICKNESS SHALL BE 12" UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

4. ALL RIPRAP SHALL BE PLACED ON GEOTEXTILE BEDDING FABRIC AND SHALL BE TRENCHED INTO SUBGRADE AT THE TOPS, BOTTOMS AND SIDES OF SLOPES AS INDICATED.

STONE FILLING NOTES

1. ALL STONE FILLING SHALL BE SOUND, CLEAN STONE FILLING MATERIAL AS SPECIFIED IN NYSDOT STANDARD SPECIFICATION 733-21.

2. WHEN USED IN CONJUNCTION WITH SORTED RIPRAP OR LIMESTONE BOULDERS ALL STONE FILLING SHALL BE MACHINE OR HAND PLACED TO FILL VOIDS AND CREATE A UNIFORM FINISH SURFACE TRUE TO THE GRADES INDICATED ON THE DRAWINGS.

3. ALL OTHER TIMES – ALL STONE FILLING SHALL BE MACHINE OR HAND PLACED TO PROVIDE A UNIFORM FINISH SURFACE TRUE TO THE GRADES INDICATED ON THE DRAWINGS. STONE SIZES SHALL BE EVENLY DISTRIBUTED THROUGHOUT. THE MINIMUM LAYER THICKNESS SHALL BE 18" UNLESS OTHERWISE INDICATED ON THE PLANS. ALL STONE FILLING SHALL BE BEDDED IN A MINIMUM OF 6" UNLESS OTHERWISE STATED OF TYPE 2 CRUSHED STONE, NYSDOT ITEM NO. 623.12, WITH MIRAFI 140N GEOTEXTILE FABRIC PLACED UNDER THE BEDDING AND SHALL BE TRENCHED INTO THE SUBGRADE AT TOPS, BOTTOMS AND SIDES OF SLOPES.

GRANULAR MATERIAL NOTES

1. ALL CRUSHED/WASHED STONE UTILIZED OR INDICATED ON THE PLANS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 703-02.

2. ALL BEDDING/SUBBASE MATERIAL UTILIZED OR INDICATED ON THE PLANS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 703-02 AND 733-04.

3. RIVERSTONE SHALL BE WASHED RIVERSTONE COBBLES WITH A MIXTURE OF 2", 3", 4" AND 6" DIAMETER STONES.

LIMESTONE BOULDER NOTES

1. ALL REINFORCING STEEL DOWELS (PINS) SHALL BE GALVANIZED IN CONFORMANCE WITH THE REQUIREMENTS OF NYSDOT SPEC. SECTION 709-04, UNLESS OTHERWISE NOTED.

2. ALL BOULDERS SHALL BE SOUND, SOLID LIMESTONE, MEDIUM TO HIGH DESITY, 135LBS/CY TO 165LBS/CY. SEE DETAIL 5, SHEET C-13 FOR MATERIAL & SIZE SPECIFICATIONS.

3. FAST SETTING HYDRAULIC CEMENT MORTAR FOR GROUTING REINFORCING DOWELS SHALL BE SUPER SPECPLUG SUPER FAST SETTING HYDRAULIC CEMENT MORTAR OF APPROVED EQUAL.

SORTED RIPRAP NOTES

1. ALL BOULDERS SHALL BE SOUND, SOLID LIMESTONE, MEDIUM TO HIGH DESITY, 135LBS/CY TO 165LBS/CY. SEE DETAIL 1, SHEET C-10 FOR MATERIAL & SIZE SPECIFICATIONS.

2. ALL STONE FILLING SHALL BE BEDDED IN A MINIMUM OF 6" UNLESS OTHERWISE STATED OF TYPE 2 CRUSHED STONE, NYSDOT ITEM NO. 623.12, WITH MIRAFI 140N GEOTEXTILE FABRIC PLACED UNDER THE BEDDING AND SHALL BE TRENCHED INTO THE SUBGRADE AT TOPS, BOTTOMS AND SIDES OF SLOPES.

NOT FOR CONSTRUCTION

THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISION UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

DUNN & SGROMO ENGINEERS
5800 HERITAGE LANDING DRIVE
EAST SYRACUSE, NEW YORK 13057
T: (315)449-4940 F: (315)449-4941

STATE OF NEW YORK · GREGORY SCHUNK · LICENSED PROFESSIONAL ENGINEER · 073282

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TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

PROJECT NOTES

NO.	DATE	REVISION	BY

SCALE: AS NOTED	FILE NO.: 1209.012
DESIGNED BY: JPB	DATE: 07.09.2025
DRAWN BY: JPB/JGA	DWG. NO: C-0
CHECKED BY: JD	

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LEGEND

SITE MAPPING	
DESCRIPTION	EXISTING
STORM LINE	D
SEWER LINE	S
OVERHEAD ELECTRIC	OHE OHE OHE
CONTOURS	496
SHEETPILING	
FENCING	
PROPERTY LINES	
RAILROAD	
EASEMENT	

UTILITY STRUCTURES	
DESCRIPTION	EXISTING
CATCH BASIN	
SEWER MANHOLE	
TELEPHONE POLE	T.P.

DESCRIPTION	EXISTING
SAUQUOIT CREEK	
WATERBODIES	
PAVEMENT	
STOCKPILES	
WOODS	
CREEK SEDIMENT/GRAVEL	
BUILDING	

NORTH

SAUQUOIT CREEK

HAPANOWICZ BROTHERS MEAT MARKET

PIZZA BOYS

CLINTON STREET

STD REALTY, LLC (NOW OR FORMERLY) INSTRUMENT #2014-008202 T.M. #317.014-5-5

NEW YORK, SUSQUEHANNA & WESTERN RAILWAY CORPORATION (NOW OR FORMERLY) INSTRUMENT #2007-024705 T.M. #317.014-5-4

BURESTONE ROAD

McGRAITH BEVERAGES

STD REALTY, LLC (NOW OR FORMERLY) INSTRUMENT #2019-008202 T.M. #317.014-5-5

TOWN OF NEW HARTFORD (NOW OR FORMERLY) LIBER 2507 / PAGE 47 T.M. #317.000-1-15.1

STD REALTY, LLC (NOW OR FORMERLY) INSTRUMENT #2019-003940 T.M. #317.018-1-6

STD REALTY, LLC (NOW OR FORMERLY) INSTRUMENT #2019-003940 T.M. #317.000-1-15.2

VILLAGE OF NEW YORK MILLS TOWN OF NEW HARTFORD

EXISTING POND

EXISTING SEWER MAIN ENCASED IN CONCRETE

EXISTING WOODED FLOODPLAIN TO REMAIN

BURIED DRAINAGE INFRASTRUCTURE

EX SMH RIM: 477.76 12" INV. IN=468.09

EX SMH RIM: 479.46 12" INV. IN=468 12" INV. OUT=468.61

EX SMH RIM: 490.41 12" INV. IN=472.96 12" INV. OUT=472.86

EX SMH RIM: 481.20 12" INV. IN=476.70 12" INV. OUT=476.60

EX SMH RIM: 484.13 12" INV. IN=477.95 12" INV. OUT=477.85

TRANSFER STATION TOWN OF NEW HARTFORD (NOW OR FORMERLY) LIBER 2507 / PAGE 47 T.M. #317.000-1-15.1

EXISTING STOCKPILES

EX SMH RIM: 487.26 12" INV. IN=481.38 12" INV. OUT=481.38

EX SMH RIM: 490.08 12" INV. IN=483.83 12" INV. OUT=483.73

EX CB GRATE: 490.14

EX CB GRATE: 494.34

EX CB GRATE: 475.73

EX CB GRATE: 475.08

SALT SHED

EXISTING SALT SHED

EXISTING NYSDOT HIGHWAY GARAGE

EXISTING STORAGE BUILDING

EXISTING TEST WELL

EXISTING LIMESTONE BLOCK RETAINING WALL

EXISTING NYSDOT POND

PEOPLE OF THE STATE OF NEW YORK (REPUTED OWNER) T.M. #329.006-1-1

PEOPLE OF THE STATE OF NEW YORK (REPUTED OWNER) T.M. #329.006-1-2

PEOPLE OF THE STATE OF NEW YORK (REPUTED OWNER) T.M. #329.006-3-

NIAGARA MOHAWK (REPUTED OWNER) T.M. #329.006-3-14

NIAGARA MOHAWK SUBSTATION NIAGARA MOHAWK (REPUTED OWNER) T.M. #329.006-3-16.2

TOWN OF NEW HARTFORD (NOW OR FORMERLY) INSTRUMENT #2014-004719 T.M. #329.006-3-16.1

HIGHWAY GARAGE TOWN OF NEW HARTFORD (NOW OR FORMERLY)

GEORGE MASSOUD & JANET MASSOUD (NOW OR FORMERLY) LIBER 2535 / PAGE 97 T.M. #329.006-1-14

NEW YORK, SUSQUEHANNA & WESTERN RAILWAY CORPORATION (NOW OR FORMERLY) INSTRUMENT #2007-024705 T.M. #317.000-1-14

EXISTING TRAIL

EXISTING RAILROAD

EX SMH

EX-SANITARY

OHE

TMH

S 83°43'59" W 32.01'

1 SITE PLAN
SCALE: 1"=120'

GRAPHIC SCALE
120 0 60 120 240
(IN FEET)

NOT FOR CONSTRUCTION
THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISION UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

DUNN & SGROMO ENGINEERS
5800 HERITAGE LANDING DRIVE
EAST SYRACUSE, NEW YORK 13057
T: (315)449-4940 F: (315)449-4941

STATE OF NEW YORK · GREGORY SGROMO · 073202 · LICENSED PROFESSIONAL ENGINEER

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TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

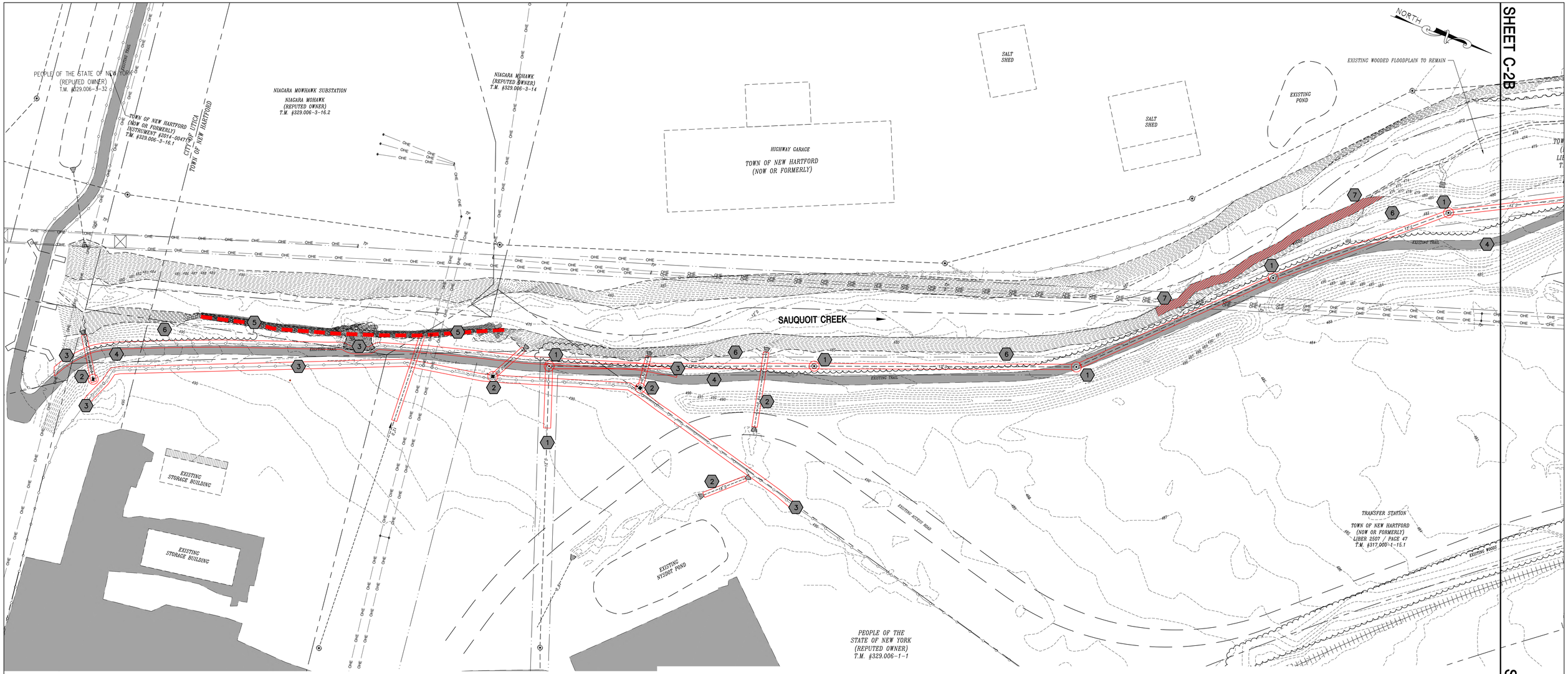
RAYHILL MEMORIAL TRAIL REMEDIATION

NO.	DATE	REVISION	BY

EXISTING CONDITIONS SITE PLAN

SCALE: AS NOTED	FILE NO.: 1209.012
DESIGNED BY: JPB	DATE: 07.09.2025
DRAWN BY: JPB/JGA	DWG. NO: C-1
CHECKED BY: JD	

Q:\CADD Files\PROJECTS\Town of New Hartford - 1209\012 - Rayhill Trail Improvements\Working Drawings\Contract Drawings\EX CONDITIONS & DEMO.dwg, 7/24/2025 1:37:24 PM



DEMOLITION KEY

1. REMOVE EXISTING SANITARY LINES AND STRUCTURES.
2. REMOVE EXISTING DRAINAGE LINES AND STRUCTURES.
3. REMOVE EXISTING FENCE.
4. REMOVE EXISTING ASPHALT PATH.
5. REMOVE EXISTING LIMESTONE BLOCK RETAINING WALL TO A 3'–0" HEIGHT.
6. CLEAR FLOODPLAIN OF EXISTING WOODY VEGETATION (UNDER PAYMENT ITEM NO. 5.0). SEE PHASING PLANS.
7. REMOVE EXISTING CONCRETE BANK STABILIZATION (UNDER PAYMENT ITEM NO. 5.0; LOCATIONS ARE APPROXIMATE). SEE PHASING PLANS.

1 SITE PLAN
SCALE: 1"=50'

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)

LEGEND

SITE MAPPING	
DESCRIPTION	EXISTING
STORM LINE	D
SEWER LINE	S
OVERHEAD ELECTRIC	OHE
CONTOURS	490
SHEETPILING	
FENCING	
PROPERTY LINES	
RAILROAD	
EASEMENT	

UTILITY STRUCTURES	
DESCRIPTION	EXISTING
CATCH BASIN	
SEWER MANHOLE	
TELEPHONE POLE	T.P

DESCRIPTION	EXISTING
SAUQUOIT CREEK	
WATERBODIES	
PAVEMENT	
BUILDING	

NOT FOR CONSTRUCTION

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TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

NO.	DATE	REVISION	BY

DEMOLITION PLAN (A)

SCALE:	AS NOTED
FILE NO.:	1209.012
DESIGNED BY:	JPB
DATE:	07.09.2025
DRAWN BY:	JPB/JGA
DWG. NO:	C-2A
CHECKED BY:	JD/JPB

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SHEET C-2A

SHEET C-2C

NORTH

EXISTING POND

EXISTING POND

TOWN OF NEW HARTFORD
(NOW OR FORMERLY)
LIBER 2507 / PAGE 47
T.M. #317.000-1-15.1

SAUQUOIT CREEK

TOWN OF NEW HARTFORD
(NOW OR FORMERLY)
LIBER 2507 / PAGE 47
T.M. #317.000-1-15.1

STD REALTY, LLC
(NOW OR FORMERLY)
INSTRUMENT #2019-003940
T.M. #317.018-1-8

STD REALTY, LLC
(NOW OR FORMERLY)
INSTRUMENT #2014-009006
T.M. #317.014-5-5

VILLAGE OF NEW YORK MILLS
TOWN OF NEW HARTFORD

STD REALTY, LLC
(NOW OR FORMERLY)
INSTRUMENT #2014-008202
T.M. #317.014-5-5

NEW YORK, SUSQUEHANNA & WESTERN RAILWAY CORPORATION
(NOW OR FORMERLY)
INSTRUMENT #2007-024705
T.M. #317.000-1-14

EXISTING ACCESS ROAD

SHEET C-2A

SHEET C-2C

1 SITE PLAN
SCALE: 1"=50'

DEMOLITION KEY

1. REMOVE EXISTING SANITARY LINES AND STRUCTURES.
2. REMOVE EXISTING DRAINAGE LINES AND STRUCTURES.
3. REMOVE EXISTING FENCE.
4. REMOVE EXISTING ASPHALT PATH.
5. REMOVE EXISTING LIMESTONE BLOCK RETAINING WALL TO A 3'-0" HEIGHT.
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7. REMOVE EXISTING CONCRETE BANK STABILIZATION (UNDER PAYMENT ITEM NO. 5.0; LOCATIONS ARE APPROXIMATE). SEE PHASING PLANS.
8. REMOVE EXISTING SEDIMENT/GRAVEL (UNDER PAYMENT ITEM NO. 5.0). SEE PHASING PLANS.

LEGEND

SITE MAPPING	
DESCRIPTION	EXISTING
STORM LINE	D
SEWER LINE	S
OVERHEAD ELECTRIC	OHE
CONTOURS	496
SHEETPILING	
FENCING	
PROPERTY LINES	
RAILROAD	
EASEMENT	

UTILITY STRUCTURES	
DESCRIPTION	EXISTING
CATCH BASIN	
SEWER MANHOLE	
TELEPHONE POLE	TP

DESCRIPTION	EXISTING
SAUQUOIT CREEK	
WATERBODIES	
PAVEMENT	
BUILDING	
CREEK SEDIMENT/GRAVEL	
WOODS	

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)

NOT FOR CONSTRUCTION

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ONEIDA COUNTY, NEW YORK

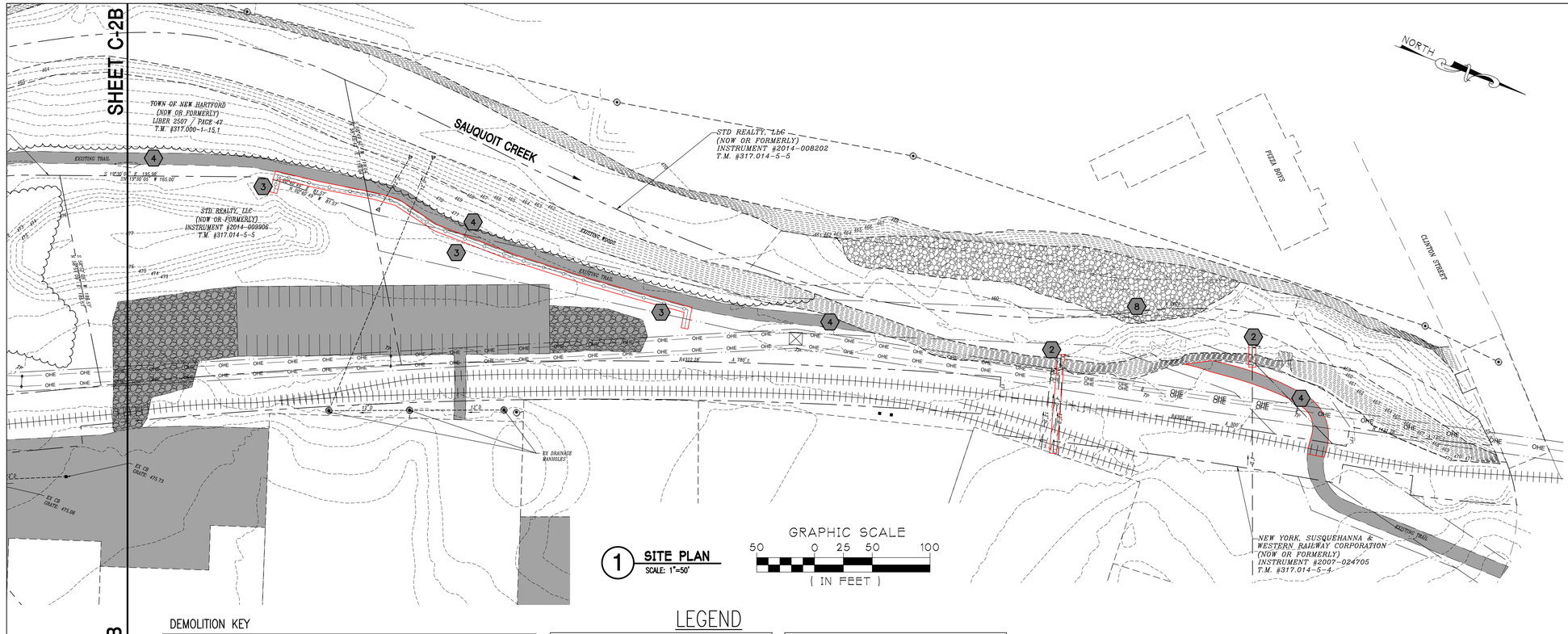
RAYHILL MEMORIAL TRAIL REMEDIATION

NO.	DATE	REVISION	BY

DEMOLITION PLAN (B)

SCALE:	AS NOTED
DESIGNED BY:	JPB
DRAWN BY:	JPB/JGA
CHECKED BY:	JD
FILE NO.:	1209.012
DATE:	07.09.2025
DWG. NO:	C-2B

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1 **SITE PLAN**
SCALE: 1"=50'

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)

DEMOLITION KEY

1. REMOVE EXISTING SANITARY LINES AND STRUCTURES.
2. REMOVE EXISTING DRAINAGE LINES AND STRUCTURES.
3. REMOVE EXISTING FENCE.
4. REMOVE EXISTING ASPHALT PATH.
5. REMOVE EXISTING LIMESTONE BLOCK RETAINING WALL TO A 3'-0" HEIGHT.
6. CLEAR FLOODPLAIN OF EXISTING WOODY VEGETATION (UNDER PAYMENT ITEM NO. 5.0). SEE PHASING PLANS.
7. REMOVE EXISTING CONCRETE BANK STABILIZATION (UNDER PAYMENT ITEM NO. 5.0; LOCATIONS ARE APPROXIMATE). SEE PHASING PLANS.
8. REMOVE EXISTING SEDIMENT/GRAVEL (UNDER PAYMENT ITEM NO. 5.0). SEE PHASING PLANS.

LEGEND

SITE MAPPING	
DESCRIPTION	EXISTING
STORM LINE	D
SEWER LINE	S
OVERHEAD ELECTRIC	OHE
CONTOURS	496
SHEETPILING	
FENCING	
PROPERTY LINES	
RAILROAD	
EASEMENT	

UTILITY STRUCTURES	
DESCRIPTION	EXISTING
CATCH BASIN	
SEWER MANHOLE	
TELEPHONE POLE	T.P.

DESCRIPTION	EXISTING
SAUQUOIT CREEK	
PAVEMENT	
BUILDING	
CREEK SEDIMENT/GRAVEL	
WOODS	

NOT FOR CONSTRUCTION

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TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

NO.	DATE	REVISION	BY

DEMOLITION PLAN (C)

SCALE:	AS NOTED
FILE NO.:	1209.012
DESIGNED BY:	JPB
DATE:	07.09.2025
DRAWN BY:	JPB/JGA
CHECKED BY:	JD
DWG. NO:	C-2C

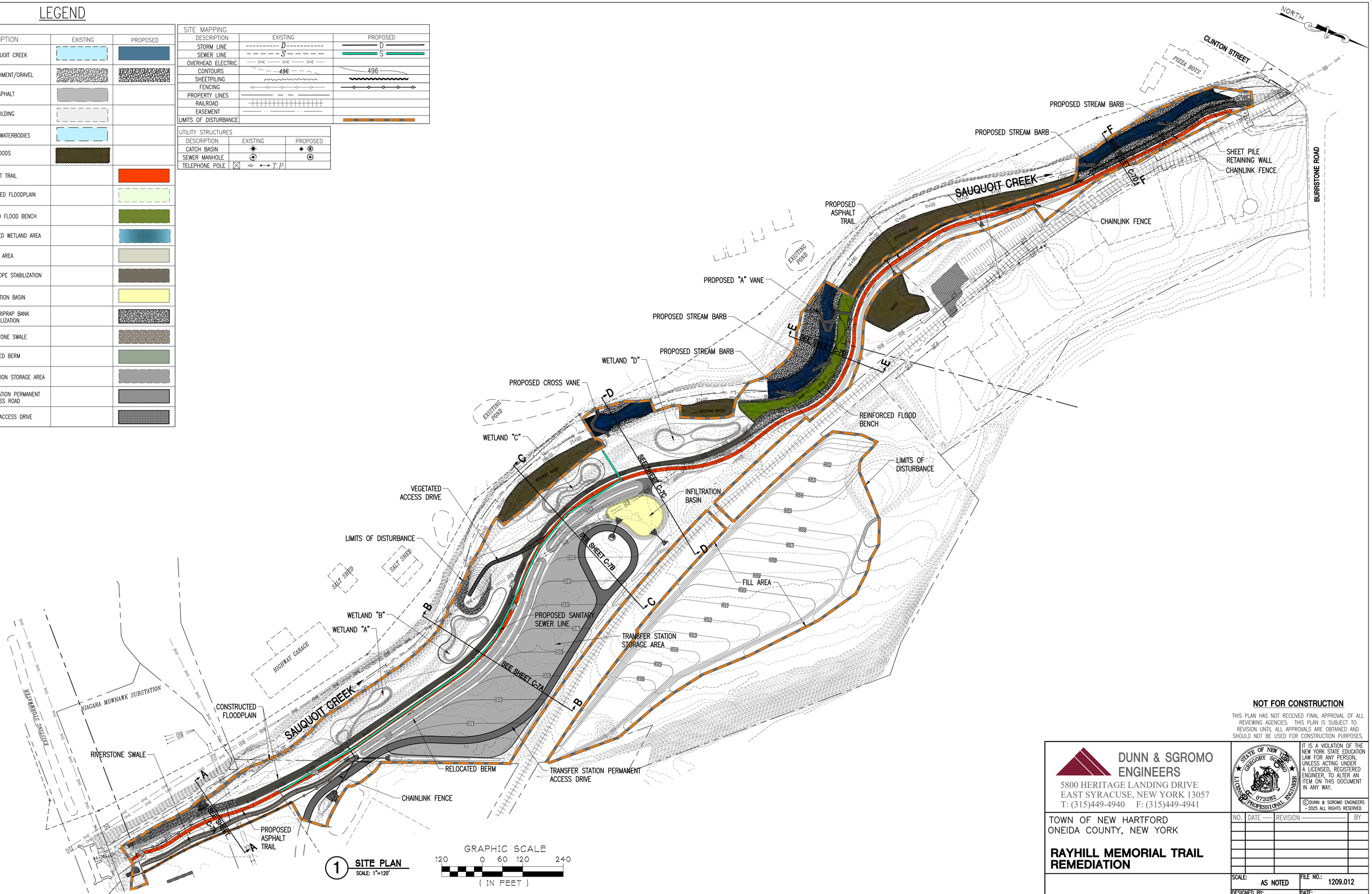
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LEGEND

DESCRIPTION	EXISTING	PROPOSED
SAUQUOIT CREEK		
CREEK SEDIMENT/GRAVEL		
ASPHALT		
BUILDING		
EXISTING WATERBODIES		
WOODS		
ASPHALT TRAIL		
CONSTRUCTED FLOODPLAIN		
REINFORCED FLOOD BENCH		
CONSTRUCTED WETLAND AREA		
FILL AREA		
GEOTEXTILE SLOPE STABILIZATION		
INFILTRATION BASIN		
SORTED RIPRAP BANK STABILIZATION		
RIVERSTONE SWALE		
RELOCATED BERM		
TRANSFER STATION STORAGE AREA		
TRANSFER STATION PERMANENT ACCESS ROAD		
VEGETATED ACCESS DRIVE		

SITE MAPPING		
DESCRIPTION	EXISTING	PROPOSED
STORM LINE	D	D
SEWER LINE	S	S
OVERHEAD ELECTRIC	OHE	
CONTOURS	496	496
SHEETPILING		
FENCING		
PROPERTY LINES		
RAILROAD		
EASEMENT		
LIMITS OF DISTURBANCE		

UTILITY STRUCTURES		
DESCRIPTION	EXISTING	PROPOSED
CATCH BASIN		
SEWER MANHOLE		
TELEPHONE POLE	T.P.	



1 **SITE PLAN**
SCALE: 1"=120'

GRAPHIC SCALE
120 0 60 120 240
(IN FEET)

NOT FOR CONSTRUCTION

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ONEIDA COUNTY, NEW YORK

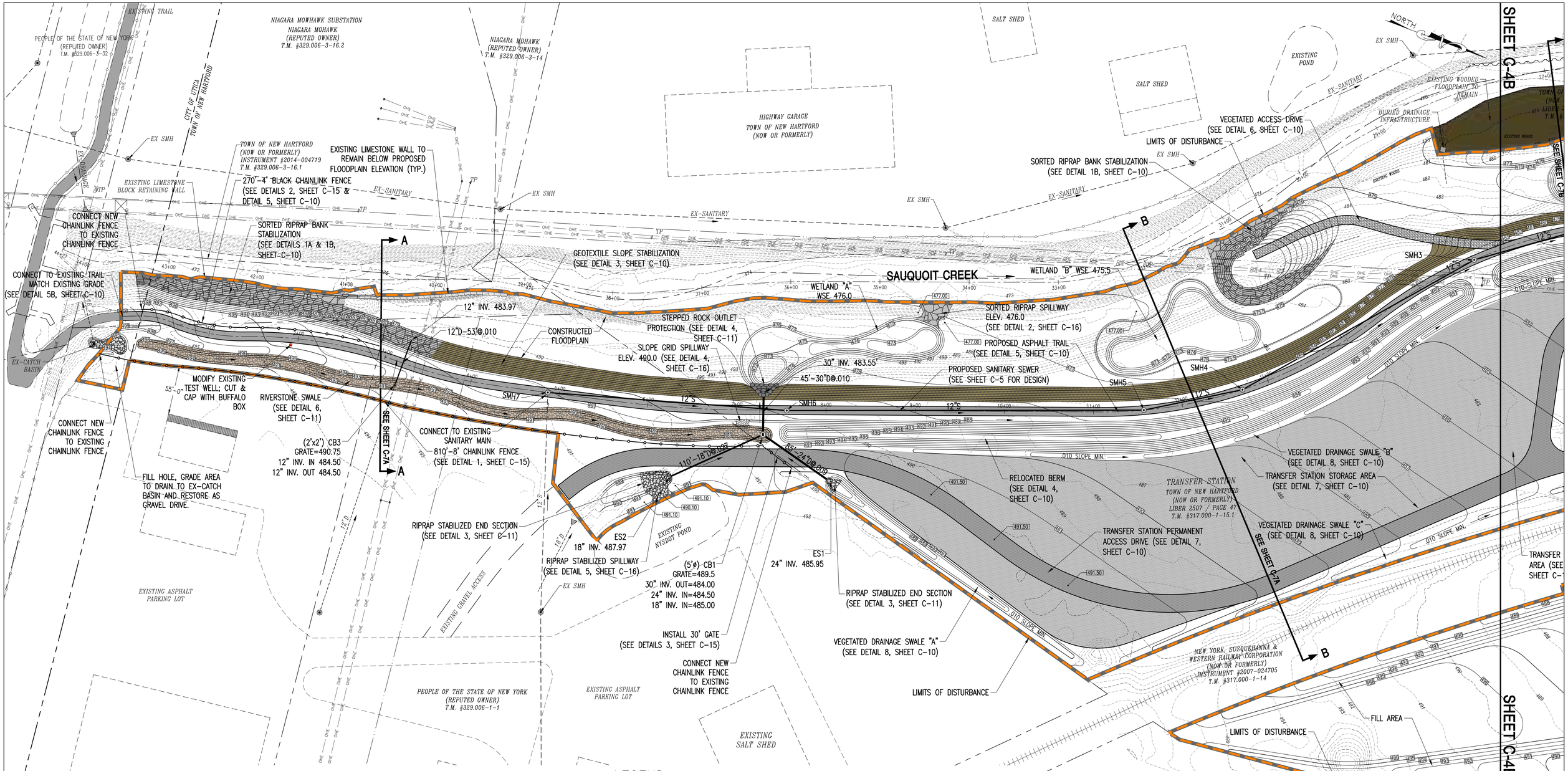
RAYHILL MEMORIAL TRAIL REMEDIATION

NO.	DATE	REVISION	BY

OVERALL PROPOSED CONDITIONS

SCALE: AS NOTED	FILE NO.: 1209.012
DESIGNED BY: JPB	DATE: 07.09.2025
DRAWN BY: JPB/JGA	DWG. NO: C-3
CHECKED BY: JD/JPB	

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LEGEND

DESCRIPTION	EXISTING	PROPOSED
SAUQUOIT CREEK		
ASPHALT		
BUILDING		
EXISTING WATERBODIES		
WOODS		
CONSTRUCTED FLOODPLAIN		
CONSTRUCTED WETLAND AREA		
FILL AREA		
GEOTEXTILE SLOPE STABILIZATION		
RELOCATED BERM		
RIVERSTONE SWALE		
RIPRAP STABILIZED SPILLWAY		

DESCRIPTION	EXISTING	PROPOSED
RIPRAP STABILIZED END SECTION		
SORTED RIPRAP BANK STABILIZATION		
SLOPE GRID SPILLWAY		
TRANSFER STATION STORAGE AREA		
TRANSFER STATION PERMANENT ACCESS DRIVE		
VEGETATED ACCESS DRIVE		

SITE MAPPING

DESCRIPTION	EXISTING	PROPOSED
STORM LINE	D	D
SEWER LINE	S	S
OVERHEAD ELECTRIC	OHE	
CONTOURS	496	496
SHEETPILING		
FENCING		
PROPERTY LINES		
RAILROAD		
EASEMENT		
LIMITS OF DISTURBANCE		

UTILITY STRUCTURES

DESCRIPTION	EXISTING	PROPOSED
CATCH BASIN		
SEWER MANHOLE		
TELEPHONE POLE	T.P	
TEST WELL		

1 **SITE PLAN**
SCALE: 1"=50'

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)

NOT FOR CONSTRUCTION

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TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

NO.	DATE	REVISION	BY

GRADING & DRAINAGE PLAN (A)

SCALE:	AS NOTED
FILE NO.:	1209.012
DESIGNED BY:	JPB
DATE:	07.09.2025
DRAWN BY:	JPB/JGA
DWG. NO:	C-4A
CHECKED BY:	JD/JPB

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SHEET C-4A

SHEET C-4C

PROPOSED CROSS VANE (SEE SHEET C-13)

RECONSTRUCT GRAVEL SHELF WITH STOCKPILED NATIVE CREEK ROCK

FILL WITH STOCKPILED NATIVE CREEK ROCK

PROPOSED CREEK-STABILIZE CREEK BED WITH STOCKPILED NATIVE CREEK ROCK (SEE NOTE 5, EARTHWORK NOTES, SHEET C-0)

PROPOSED CREEK-STABILIZE CREEK BED WITH STOCKPILED NATIVE CREEK ROCK (SEE NOTE 5, EARTHWORK NOTES, SHEET C-0)

RIPRAP STABILIZED END SECTION (SEE DETAIL 3, SHEET C-11)

SORTED RIPRAP BANK STABILIZATION (SEE DETAIL 1B, SHEET C-10)

FILL EXISTING CREEK BED TO CREATE FLOODPLAIN

PROPOSED "A" VANE (SEE SHEET C-13)

RECONSTRUCT GRAVEL SHELF WITH STOCKPILED NATIVE CREEK ROCK

PROPOSED STREAM BARB "A" (SEE SHEET C-14)

PROPOSED STREAM BARB "B" (SEE SHEET C-14)

EXISTING SEWER MAIN ENCASED IN CONCRETE

EX. SHEETPILING

EX. SANITARY

EX. SMH

LIMITS OF DISTURBANCE

EXISTING WOODED FLOODPLAIN TO REMAIN

TOWN OF NEW HARTFORD (NOW OR FORMERLY) LIBER 2507 / PAGE 47 T.M. #317.000-1-15.1

PROPOSED SANITARY SEWER (SEE SHEET C-5 FOR DESIGN)

WETLAND "C" WSE 473.5

WETLAND "D" WSE 472.0

SAUQUOIT CREEK

EMERGENCY SPILLWAY (SEE DETAIL 3, SHEET C-16)

SEE SHEET C-7B

SEE SHEET C-7C

SEE SHEET C-7D

SMH1

SMH2

12"S

VEGETATED DRAINAGE SWALE "B" (SEE DETAIL 8, SHEET C-10)

D10 SLOPE MIN.

18"D INV. IN=481.00 RIPRAP STABILIZED END SECTION (SEE DETAIL 3, SHEET C-11)

STEPPED ROCK OUTLET PROTECTION (SEE DETAIL 4 SHEET C-11)

36'-18"D@.005

ES4 18" INV. IN=481.18

RELOCATED BERM (SEE DETAIL 4, SHEET C-10

INFILTRATION BASIN (SEE DETAIL 1, SHEET C-16)

RIPRAP STABILIZED END SECTION (SEE DETAIL 3, SHEET C-11)

PROPOSED ASPHALT TRAIL (SEE DETAIL 5, SHEET C-10)

GEOTEXTILE SLOPE STABILIZATION (SEE DETAIL 3, SHEET C-10)

RIPRAP STABILIZED END SECTION (SEE DETAIL 3, SHEET C-11)

STEPPED ROCK OUTLET PROTECTION (SEE DETAIL 4, SHEET C-11)

32'-18"D@.005

ES3 18" INV. IN=481.16

RIPRAP STABILIZED END SECTION (SEE DETAIL 3, SHEET C-11)

VEGETATED DRAINAGE SWALE "C" (SEE DETAIL 8, SHEET C-10)

TRANSFER STATION PERMANENT ACCESS DRIVE (SEE DETAIL 7, SHEET C-10)

TRANSFER STATION STORAGE AREA (SEE DETAIL 7, SHEET C-10)

NEW YORK, SUSQUEHANNA & WESTERN RAILWAY CORPORATION (NOW OR FORMERLY) INSTRUMENT #2007-024705 T.M. #317.000-1-14

LIMITS OF DISTURBANCE

FILL AREA

STD REALTY, LLC (NOW OR FORMERLY) INSTRUMENT #2019-003940 T.M. #317.000-1-15.2

REINFORCED FLOOD BENCH (SEE DETAIL 2, SHEET C-10)

SORTED RIPRAP BANK STABILIZATION (SEE DETAILS 1A & 1B, SHEET C-10)

LIMITS OF DISTURBANCE

VILLAGE OF NEW YORK MILLS TOWN OF NEW HARTFORD

STD REALTY, LLC (NOW OR FORMERLY) INSTRUMENT #2014-008202 T.M. #317.014-5-5

ES5 12" INV. IN=471.00 34'-12"D@.015

ES6 12" INV. IN=471.51

RIPRAP STABILIZED END SECTION (SEE DETAIL 3, SHEET C-11)

FILL EXISTING CREEK BED TO CREATE FLOOD BENCH

STD REALTY, LLC (NOW OR FORMERLY) INSTRUMENT #2019-003940 T.M. #317.014-5-5

EXISTING WOODED FLOODPLAIN TO REMAIN

LIMITS OF DISTURBANCE

EXTEND 12"D-16'

STD REALTY, LLC (NOW OR FORMERLY) INSTRUMENT #2014-009906 T.M. #317.014-5-5

PROPOSED ASPHALT TRAIL (SEE DETAIL 5, SHEET C-10)

ES7 12" INV. IN=471.51

RIPRAP STABILIZED END SECTION (SEE DETAIL 3, SHEET C-11)

NORTH

1 SITE PLAN

SCALE: 1"=50'

GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

LEGEND

DESCRIPTION	EXISTING	PROPOSED
SAUQUOIT CREEK		
ASPHALT		
CREEK SEDIMENT/GRAVEL		
BUILDING		
EXISTING WATERBODIES		
WOODS		
CONSTRUCTED FLOODPLAIN		
CONSTRUCTED WETLAND AREA		
FILL AREA		
GEOTEXTILE SLOPE STABILIZATION		
INFILTRATION BASIN		
REINFORCED FLOOD BENCH		
RELOCATED BERM		
RIVERSTONE SWALE		
RIPRAP STABILIZED END SECTION		
SORTED RIPRAP BANK STABILIZATION		
EMERGENCY SPILLWAY		
TRANSFER STATION STORAGE AREA		
TRANSFER STATION PERMANENT ACCESS DRIVE		

SPOT ELEVATIONS	
ABBREVIATION	DESCRIPTION
TR (400.00)	TOP OF ROCK
TB (400.00)	TOP OF BANK
LP (400.00)	LOW POINT

UTILITY STRUCTURES		
DESCRIPTION	EXISTING	PROPOSED
CATCH BASIN		
SEWER MANHOLE		
TELEPHONE POLE	T.P.	

SITE MAPPING		
DESCRIPTION	EXISTING	PROPOSED
STORM LINE	D	D
SEWER LINE	S	S
OVERHEAD ELECTRIC	OHE	
CONTOURS	496	496
SHEETPILING		
FENCING		
PROPERTY LINES		
RAILROAD		
EASEMENT		
LIMITS OF DISTURBANCE		

NOT FOR CONSTRUCTION

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NO.	DATE	REVISION	BY

TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

GRADING & DRAINAGE PLAN (B)

SCALE:	AS NOTED
FILE NO.:	1209.012
DESIGNED BY:	JPB
DATE:	07.09.2025
DRAWN BY:	JPB/JGA
DWG. NO:	C-4B
CHECKED BY:	JD

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END SECTION
SHEET C-11)

SHEET C-4B

ES5
IN=471.00
D@.015

ES6
IN=471.51

END SECTION
SHEET C-11)

EX SMH

EXISTING WOODED FLOODPLAIN TO REMAIN

TOWN OF NEW HARTFORD
(NOW OR FORMERLY)
LIBER 2507 / PAGE 47
T.M. #317.000-1-15.1

LIMITS OF DISTURBANCE

EX-SANITARY

EX SMH

STD REALTY, LLC
(NOW OR FORMERLY)
INSTRUMENT #2014-008202
T.M. #317.014-5-5

SAUQUOIT CREEK

EXTEND 12"D-16'

150'-4' TALL BLACK CHAINLINK FENCE (SEE DETAIL 2, SHEET C-15 AND DETAIL 5, SHEET C-10)

PROPOSED STREAM BARB "C" (SEE SHEET C-14)

LIMITS OF DISTURBANCE

RECONSTRUCT GRAVEL SHELF WITH STOCKPILED NATIVE CREEK ROCK

PROPOSED CREEK-STABILIZE CREEK BED WITH STOCKPILED NATIVE CREEK ROCK (SEE NOTE 5, EARTHWORK NOTES, SHEET C-0)

CLINTON STREET

PIZZA BOYS

PROPOSED STREAM BARB "D" (SEE SHEET C-14)

CONSTRUCT GRAVEL SHELF WITH STOCKPILED NATIVE CREEK ROCK

500' LONG SHEET PILE RETAINING WALL TOP OF WALL=463.50 (SEE SHEET C-18)

CONNECT TO EX-4"D INV. 464.0±, EXTEND THROUGH RETAINING WALL (SEE DETAIL 7, SHEET C-11)

F

(2) 12" INVS. 461.00

4" INV. 461.00

HP (472.50)

STD REALTY, LLC
(NOW OR FORMERLY)
INSTRUMENT #2014-009906
T.M. #317.014-5-5

PROPOSED ASPHALT TRAIL (SEE DETAIL 5, SHEET C-10)

ES7
12" INV. IN=471.51

RIPRAP STABILIZED END SECTION (SEE DETAIL 3, SHEET C-11)

PROPOSED ASPHALT TRAIL (SEE DETAIL 5, SHEET C-10)

SEE SHEET C4D

F

560'-4' TALL BLACK CHAINLINK FENCE (SEE DETAIL 2, SHEET C-15)

SHEETPILING RETAINING WALL (SEE SHEET C-18)

INSTALL OUTFALL PROTECTION

INSTALL OUTFALL PROTECTION

FILL EXISTING CREEKBED COMPACT TO 95% OF MODIFIED PROCTOR UNDER TRAIL

CONNECT TO EX-12"D INV. 470.8± (SEE DETAIL 7, SHEET C-11)

CONNECT TO EX-12"D INV. 462.5± (SEE DETAIL 7, SHEET C-11)

EX SMH

0+00

EXISTING TRAIL

NEW YORK, SUSQUEHANNA & WESTERN RAILWAY CORPORATION
(NOW OR FORMERLY)
INSTRUMENT #2007-024705
#317.014-5-4

CONNECT TO EXISTING TRAIL MATCH EXISTING GRADE (SEE DETAIL 5B, SHEET C-10)

BURRSTONE ROAD

YORK MILLS ROAD

McCRAITH BEVERAGES
STD REALTY, LLC
(NOW OR FORMERLY)
INSTRUMENT #2014-008202
T.M. #317.014-5-5

NORTH

1 SITE PLAN
SCALE: 1"=50'

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)

LEGEND

DESCRIPTION	EXISTING	PROPOSED
SAUQUOIT CREEK		
ASPHALT		
CREEK SEDIMENT/GRAVEL		
BUILDING		
WOODS		
RIPRAP STABILIZED END SECTION		
SORTED RIPRAP BANK STABILIZATION		

SITE MAPPING		
DESCRIPTION	EXISTING	PROPOSED
STORM LINE	D	D
SEWER LINE	S	S
OVERHEAD ELECTRIC	OHE	
CONTOURS	496	496
SHEETPILING		
FENCING		
PROPERTY LINES		
RAILROAD		
EASEMENT		
LIMITS OF DISTURBANCE		

UTILITY STRUCTURES		
DESCRIPTION	EXISTING	PROPOSED
CATCH BASIN		
SEWER MANHOLE		
TELEPHONE POLE	T.P.	

NOT FOR CONSTRUCTION

THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISION UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

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TOWN OF NEW HARTFORD
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RAYHILL MEMORIAL TRAIL REMEDIATION

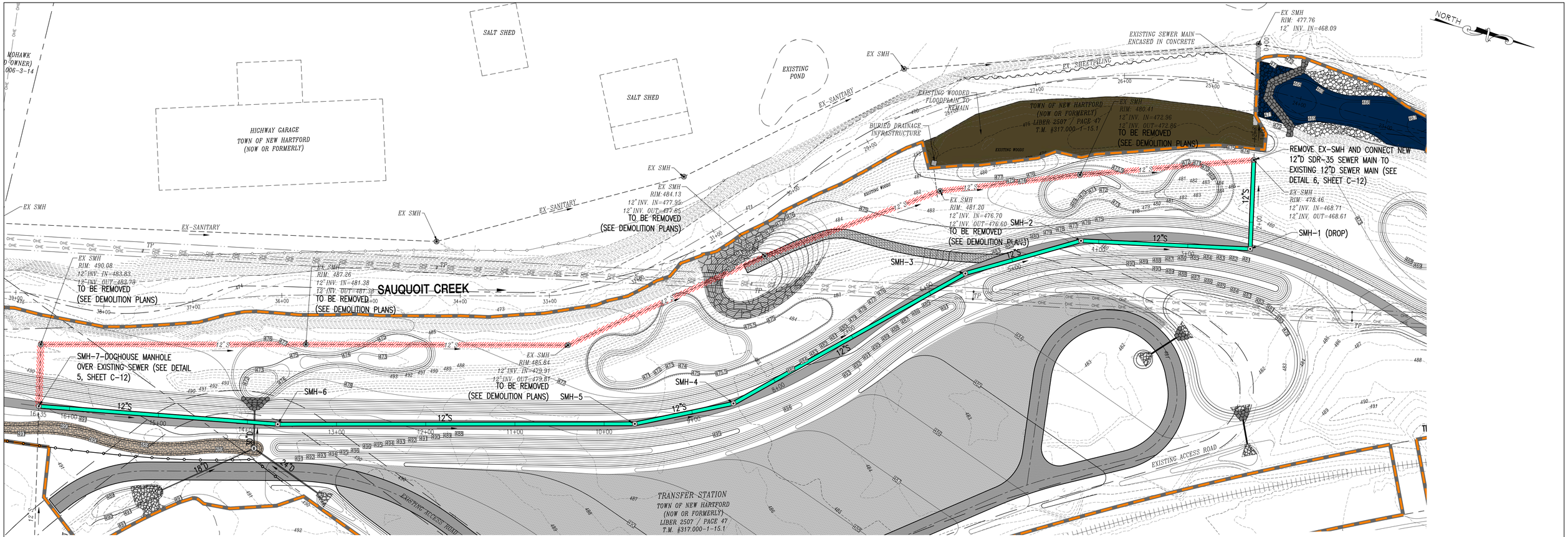
GRADING & DRAINAGE PLAN (C)

NO.	DATE	REVISION	BY

SCALE: AS NOTED
FILE NO.: 1209.012
DESIGNED BY: JPB
DATE: 07.09.2025
DRAWN BY: JPB/JGA
DWG. NO.: C-4C
CHECKED BY: JD

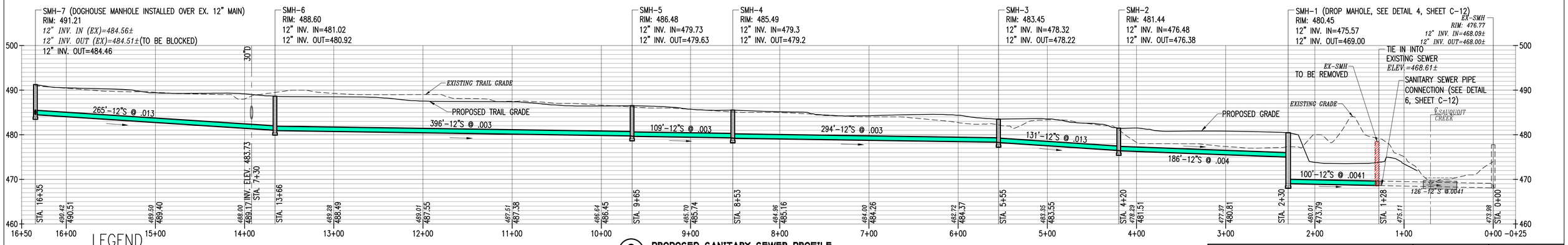
SHEET C-4B

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1 PROPOSED SANITARY SEWER LAYOUT PLAN

SCALE: 1"=50'



2 PROPOSED SANITARY SEWER PROFILE

SCALE: VERT: 1"=10', HOR: 1"=50'

LEGEND

DESCRIPTION	EXISTING	PROPOSED
SAUQUOIT CREEK		
ASPHALT		
CREEK SEDIMENT/GRAVEL		
EXISTING WATERBODIES		
WOODS		
CONSTRUCTED WETLAND AREA		
RIVERSTONE SWALE		
RIPRAP STABILIZED END SECTION		
SORTED RIPRAP BANK STABILIZATION		
TRANSFER STATION STORAGE AREA		
TRANSFER STATION PERMANENT ACCESS DRIVE		

UTILITY STRUCTURES		
DESCRIPTION	EXISTING	PROPOSED
CATCH BASIN		
SEWER MANHOLE		
TELEPHONE POLE	T.P.	

SITE MAPPING		
DESCRIPTION	EXISTING	PROPOSED
STORM LINE	D	D
SEWER LINE	S	S
OVERHEAD ELECTRIC	OHE	
CONTOURS	496	496
SHEETPILING		
FENCING		
PROPERTY LINES		
RAILROAD		
EASEMENT		
LIMITS OF DISTURBANCE		

SEWER NOTES

1. EXISTING 12" MAINLINE SEWER TO REMAIN IN SERVICE UNTIL NEW SEWER IS INSTALLED AND TESTED. CONNECTIONS TO BE MADE LAST ONCE TESTING IS COMPLETE.
2. BYPASS PUMPING WILL BE REQUIRED DURING THE CONNECTION OF THE NEW SEWER TO THE EXISTING SEWER (SEE EXISTING CONDITIONS PLAN C-1 FOR UPSTREAM AND DOWNSTREAM MANHOLE LOCATIONS).
3. SANITARY SEWER MAIN PIPE SHALL BE SDR-35 PVC WITH RUBBER RING GASKETS IN ACCORDANCE WITH ASTM D-3034.
4. CONTRACTOR SHALL RECORD AND PROVIDE ENGINEER WITH AS BUILT LOCATIONS.

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)

NOT FOR CONSTRUCTION

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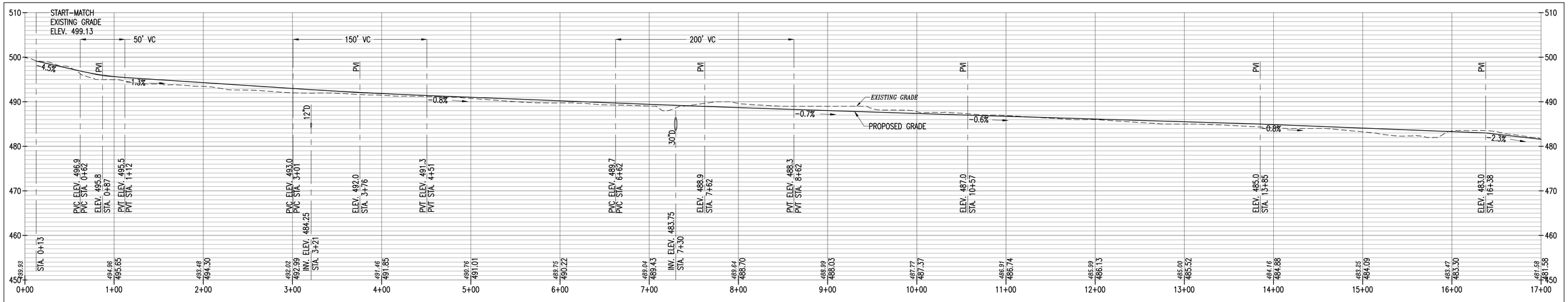
RAYHILL MEMORIAL TRAIL REMEDIATION

NO.	DATE	REVISION	BY

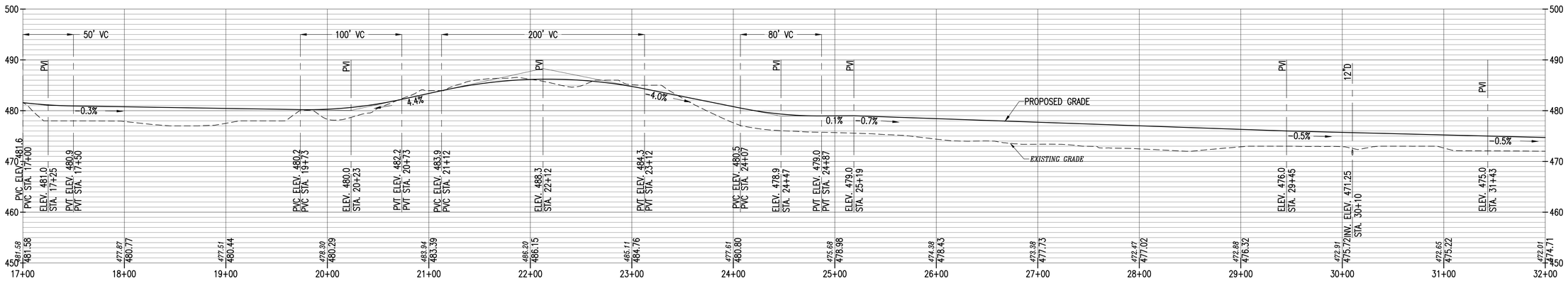
PROPOSED SANITARY SEWER PLAN & PROFILE

SCALE:	AS NOTED
DESIGNED BY:	JPB
DRAWN BY:	JPB/JGA
CHECKED BY:	JD
FILE NO.:	1209.012
DATE:	07.09.2025
DWG. NO:	C-5

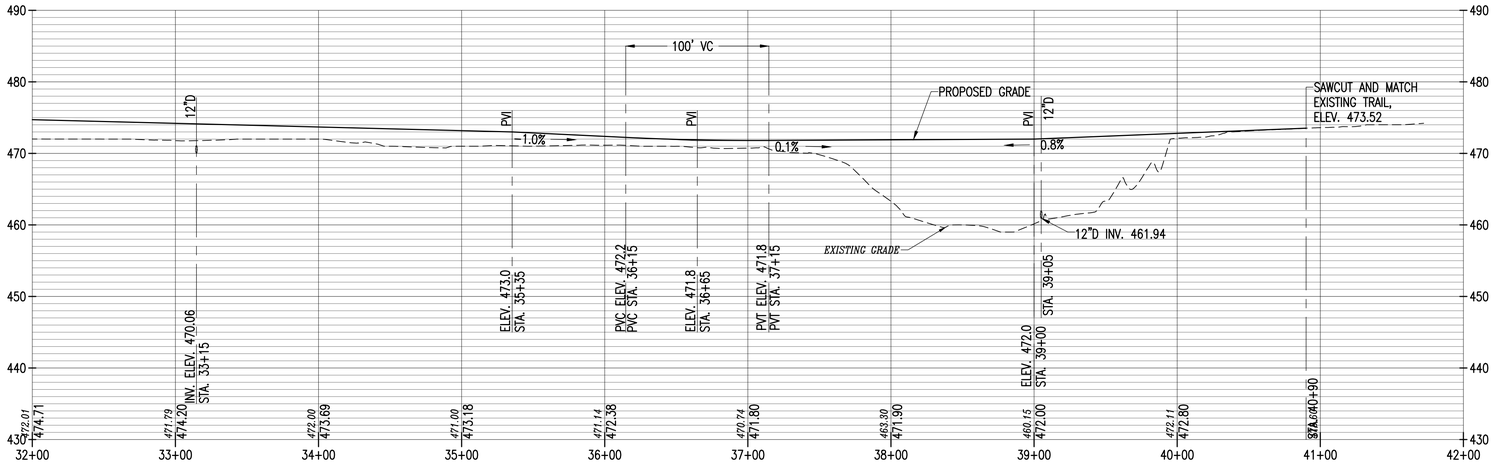
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1 **CENTERLINE OF PROPOSED TRAIL (BETWEEN STA.'S 0+00 & 17+00)**
SCALE: VERT: 1"=10', HOR: 1"=50'



2 **CENTERLINE OF PROPOSED TRAIL (BETWEEN STA.'S 17+00 & 32+00)**
SCALE: VERT: 1"=10', HOR: 1"=50'



3 **CENTERLINE OF PROPOSED TRAIL (BETWEEN STA.'S 32+00 & 41+38)**
SCALE: VERT: 1"=10', HOR: 1"=50'

NOT FOR CONSTRUCTION

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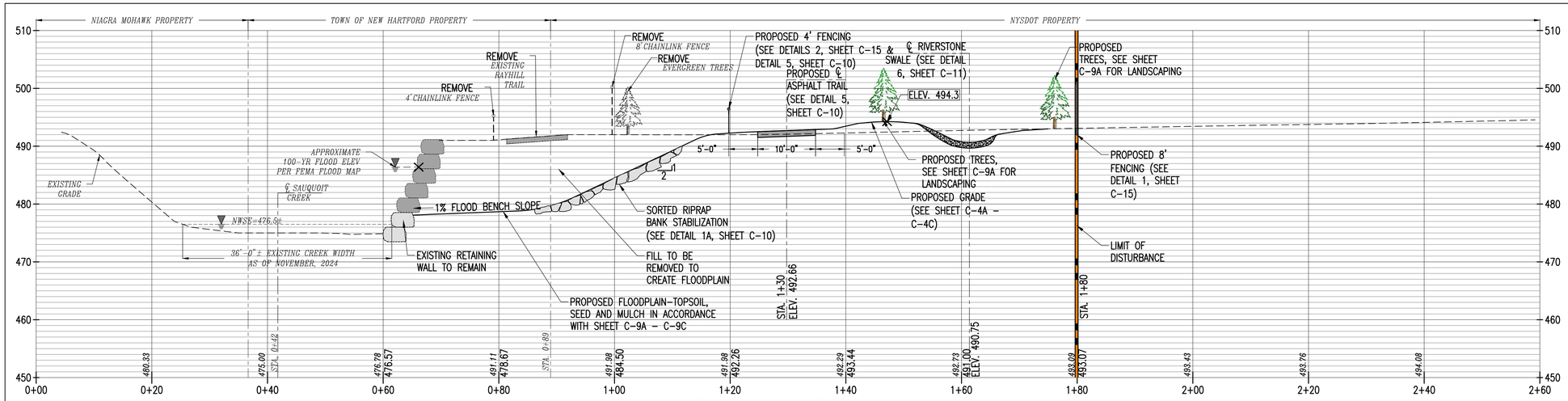
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ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

PROPOSED RAYHILL TRAIL PROFILES

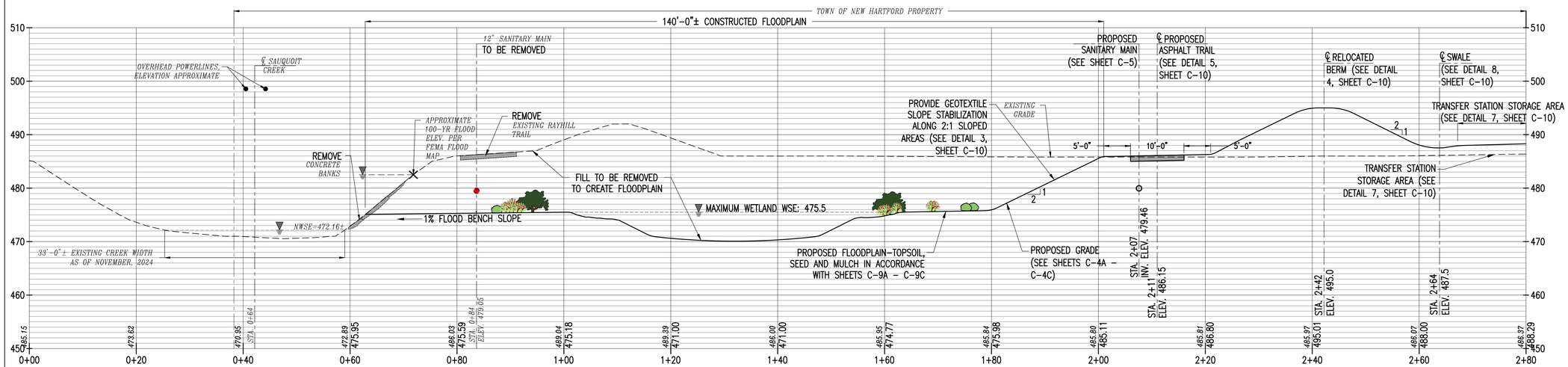
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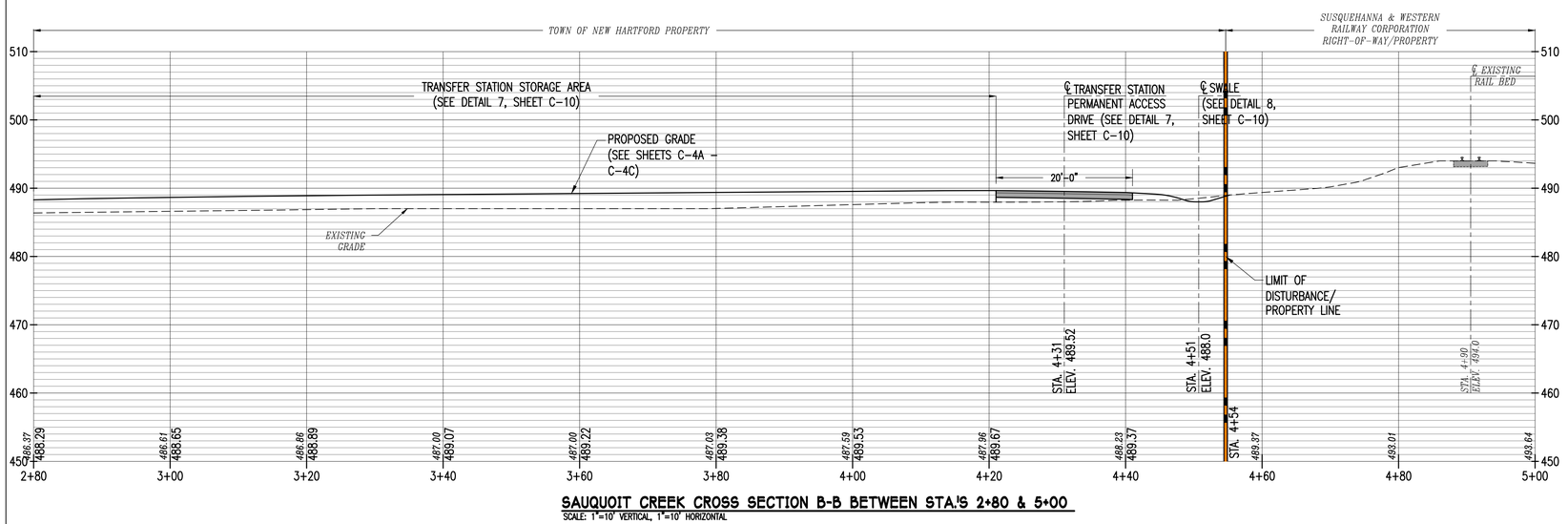
SAUQUOIT CREEK CROSS SECTION A-A

SCALE: 1"=10' VERTICAL, 1"=10' HORIZONTAL



SAUQUOIT CREEK CROSS SECTION B-B BETWEEN STA.'S 0+00 & 2+80

SCALE: 1"=10' VERTICAL, 1"=10' HORIZONTAL



SAUQUOIT CREEK CROSS SECTION B-B BETWEEN STA.'S 2+80 & 5+00

SCALE: 1"=10' VERTICAL, 1"=10' HORIZONTAL

NOTE:
THE CROSS SECTIONS PROVIDE ELEVATIONS AT THE EXACT LOCATION OF THE CROSS SECTION LINES SHOWN ON SHEETS C-4A THROUGH C-4C. DIMENSIONS AND ELEVATIONS OF EXISTING AND PROPOSED FEATURES WILL VARY IN THE AREAS UPSTREAM AND DOWNSTREAM OF THE SPECIFIC CROSS SECTIONS SHOWN. FOR ACTUAL ELEVATIONS AND DIMENSIONS, SEE SHEETS C-4A THROUGH C-4C.

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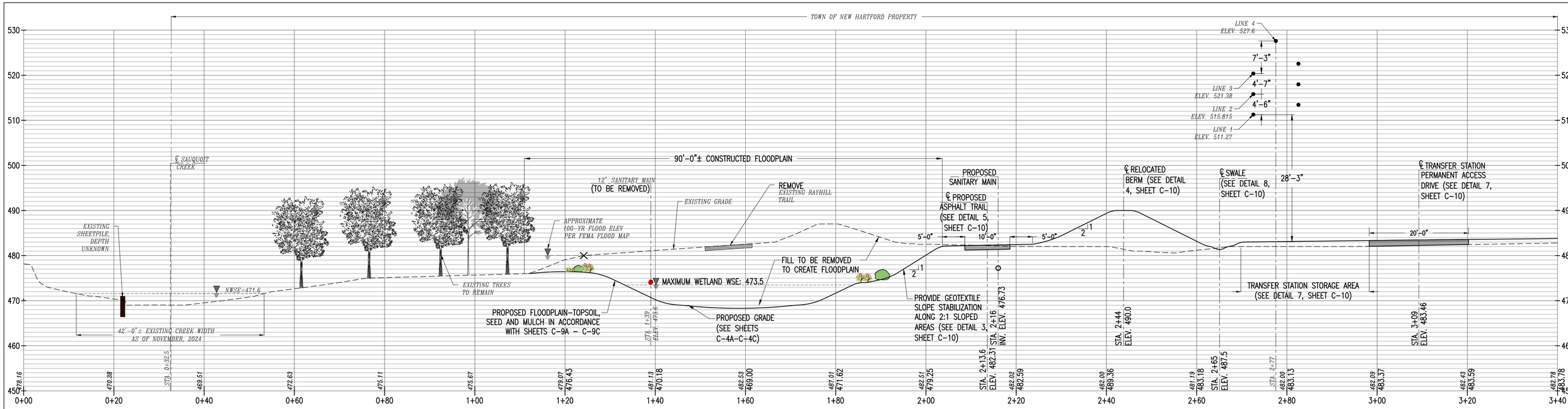
RAYHILL MEMORIAL TRAIL REMEDIATION

CREEK CROSS SECTIONS A-A & B-B

NO.	DATE	REVISION	BY

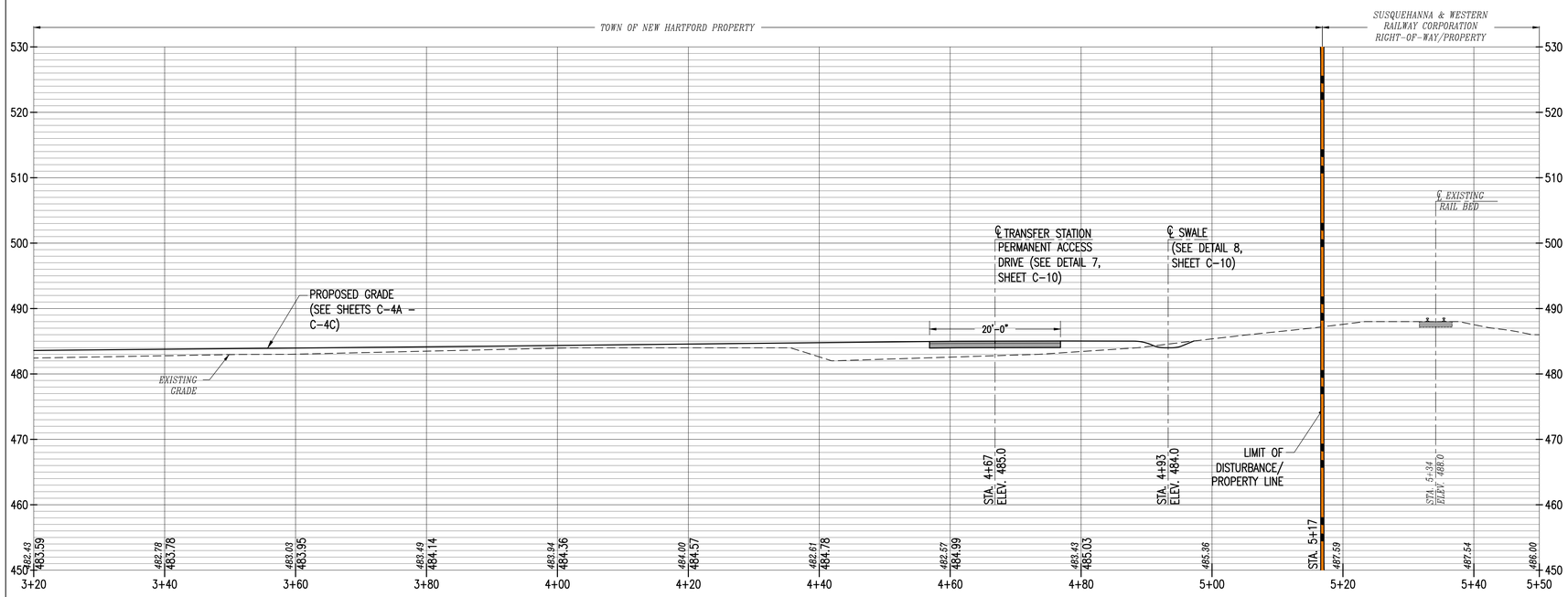
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FILE NO.: 1209.012
DESIGNED BY: JPB
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DRAWN BY: JPB/JGA
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DWG. NO: C-7A

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SAUQUOIT CREEK CROSS SECTION C-C BETWEEN STA.'S 0+00 & 3+40

SCALE: 1"=10' VERTICAL, 1"=10' HORIZONTAL



SAUQUOIT CREEK CROSS SECTION C-C BETWEEN 3+40 & 5+50

SCALE: 1"=10' VERTICAL, 1"=10' HORIZONTAL

NOTE:
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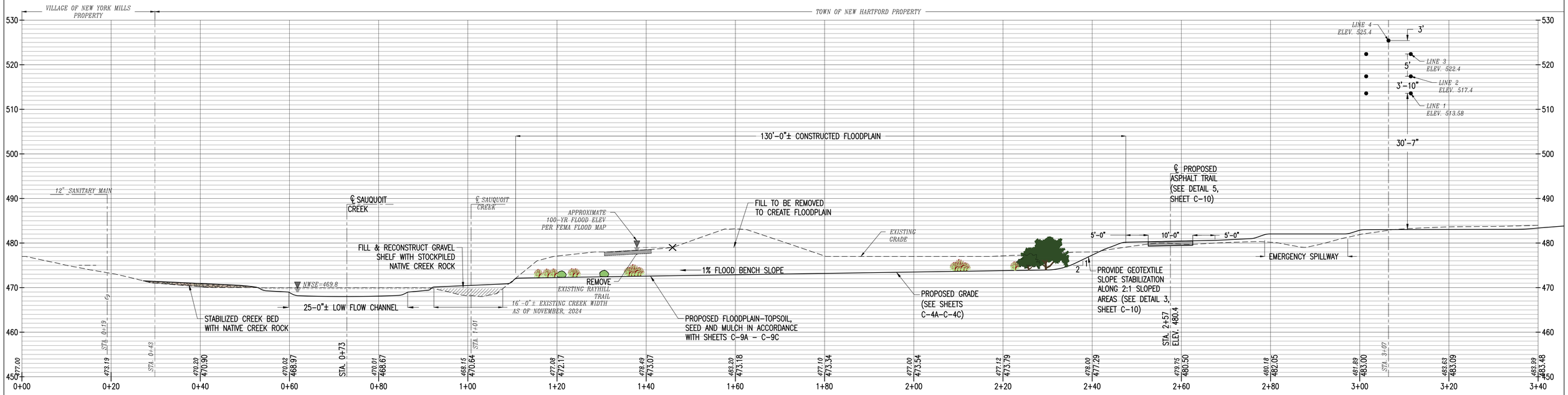
RAYHILL MEMORIAL TRAIL REMEDIATION

NO.	DATE	REVISION	BY

CREEK CROSS SECTION C-C

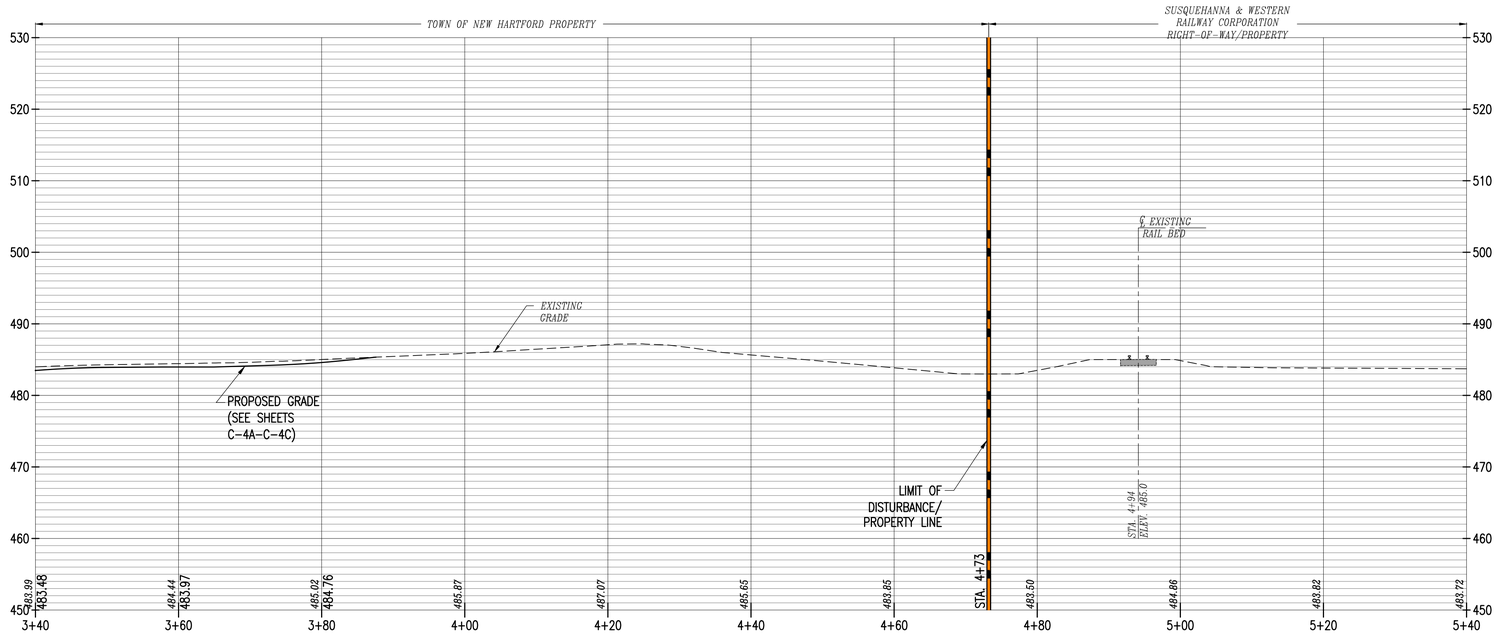
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DESIGNED BY: JPB	DATE: 07.09.2025
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SAUQUOIT CREEK CROSS SECTION D-D BETWEEN STA.'S 0+00 & 3+40

SCALE: 1"=10' VERTICAL, 1"=10' HORIZONTAL



SAUQUOIT CREEK CROSS SECTION D-D BETWEEN STA.'S 3+40 & 5+40

SCALE: 1"=10' VERTICAL, 1"=10' HORIZONTAL

NOTE:
THE CROSS SECTIONS PROVIDE ELEVATIONS AT THE EXACT LOCATION OF THE CROSS SECTION LINES SHOWN ON SHEETS C-4A THROUGH C-4C. DIMENSIONS AND ELEVATIONS OF EXISTING AND PROPOSED FEATURES WILL VARY IN THE AREAS UPSTREAM AND DOWNSTREAM OF THE SPECIFIC CROSS SECTIONS SHOWN. FOR ACTUAL ELEVATIONS AND DIMENSIONS, SEE SHEETS C-4A THROUGH C-4C.

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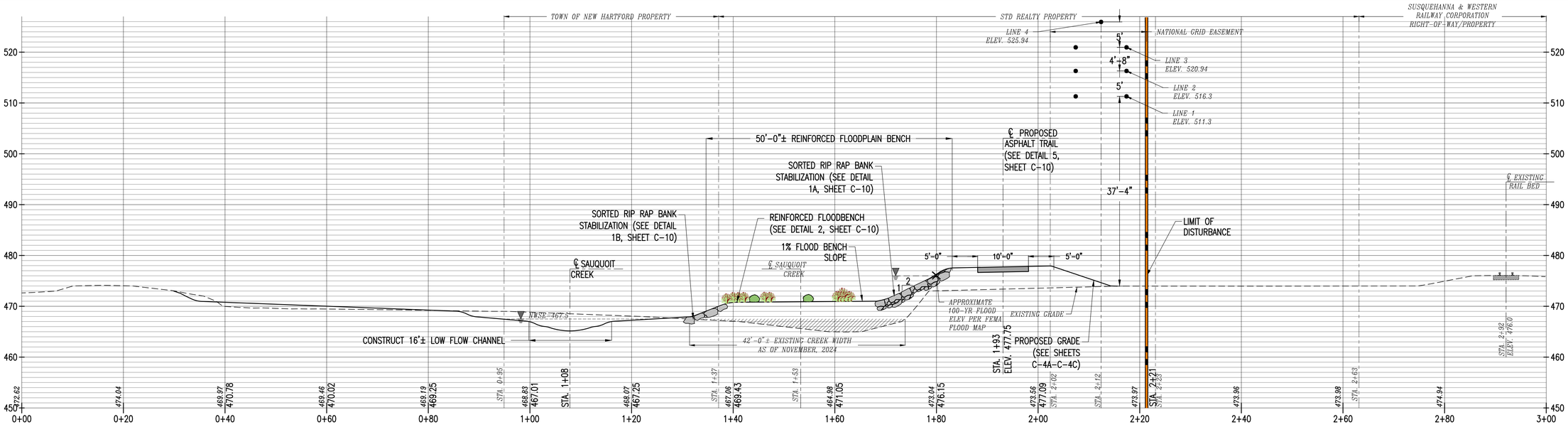
RAYHILL MEMORIAL TRAIL REMEDIATION

NO.	DATE	REVISION	BY

CREEK CROSS SECTION D-D

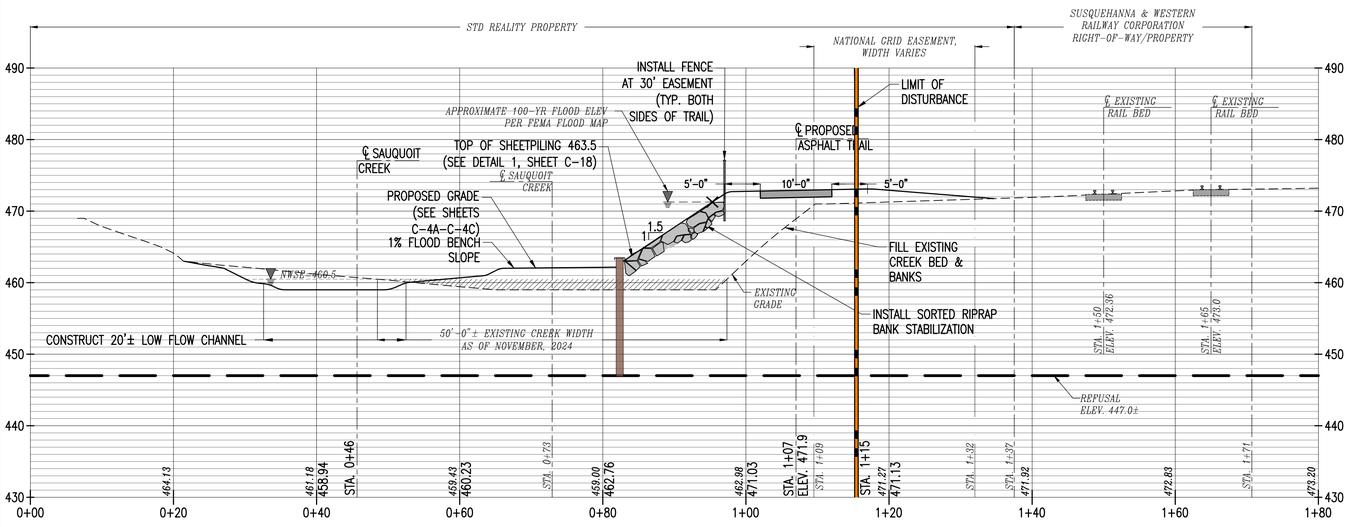
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DRAWN BY: JPB/JGA	DWG. NO: C-7C
CHECKED BY: JD	

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SAUQUOIT CREEK CROSS SECTION E-E

SCALE: 1"=10' VERTICAL, 1"=10' HORIZONTAL



SAUQUOIT CREEK CROSS SECTION F-F

SCALE: 1"=10' VERTICAL, 1"=10' HORIZONTAL

NOTE:
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RAYHILL MEMORIAL TRAIL REMEDIATION

CREEK CROSS SECTIONS E-E & F-F

NO.	DATE	REVISION	BY

SCALE: AS NOTED	FILE NO.: 1209.012
DESIGNED BY: JPB	DATE: 07.09.2025
DRAWN BY: JPB/JGA	DWG. NO: C-7D
CHECKED BY: JD	

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PHASE 1: CONSTRUCTION SEQUENCE

1. A PRE-CONSTRUCTION SITE MEETING WILL BE HELD ON SITE PRIOR TO THE START OF ANY WORK.
2. ACCESS SITE THROUGH NYSDOT PROPERTY AT 2436 CHENANGO ROAD.(1) SEE NOTE 4 ON SHEET C-0 FOR CONTACT INFORMATION.
3. INSTALL STAGING AREA (2) AND STABILIZED CONSTRUCTION ENTRANCE.(3)
4. CLEAR, GRUB AND INSTALL PROPOSED ACCESS ROAD.(4) INSTALL SILT FENCE ON WEST SIDE OF TRACKS.(5)
5. INSTALL GOAL POST SAFETY KITS IN ACCORDANCE WITH NATIONAL GRID STANDARDS (IF REQUIRED).(6)
6. COORDINATE WITH NEW YORK, SUSQUEHANNA AND WESTERN RAILWAY CORPORATION TO INSTALL RAILWAY CROSSING.(7)
7. INSTALL ORANGE CONSTRUCTION FENCE.(8)
8. INSTALL SILT FENCE ON EAST SIDE OF RAILROAD TRACKS.(9)
9. INSTALL CONCRETE WASHOUT AREA.(10)

PHASING

PHASE 2: FLOODPLAIN CONSTRUCTION (SEE SHEETS C-8B & C-8C)

PHASE 3: STREAM & BANK RESTORATION (SEE SHEET C-8C)

PHASE 4: BANK REPAIR (SEE SHEET C-8D)

PHASE 5: LANDSCAPING (SEE SHEETS C-9A – C-9C)

NORTH

PHASE 4: BANK REPAIR

PHASE 3: STREAM & BANK RESTORATION

PHASE 2: FLOODPLAIN CONSTRUCTION

LIMITS OF DISTURBANCE, 27.4 ACRES

STAGING AREA

TEMPORARY STOCKPILE AREA FOR WOODY DEBRIS (2)

TEMPORARY ACCESS ROAD TO BE CONSTRUCTED AT CONTRACTORS DISCRETION, SEE ACCESS NOTES

TEMPORARY CROSSING TO BE COORDINATED WITH NEW YORK, SUSQUEHANNA AND WESTERN RAILROAD

FILL AREA

SILT FENCE, SEE DETAIL 1, SHEET C-17

REMOVE CHAIN LINK FENCE, SEE SHEET C-2C

ORANGE CONSTRUCTION FENCE

STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL 2, SHEET C-17

CONCRETE WASHOUT PIT, SEE DETAIL 4, SHEET C-17

ACCESS TO CHENANGO ROAD

NO CONSTRUCTION TRAFFIC

TWO WAY SITE ACCESS

SAUQUOIT CREEK

EXISTING WOODS

EXISTING ACCESS ROAD

EXISTING ASPHALT PARKING LOT

EXISTING SALT SHED

EXISTING NYSDOT POND

EXISTING HIGHWAY GARAGE

PEOPLE OF THE STATE OF NEW YORK (REPUTED OWNER) T.M. #329.006-1-2

NIAGARA MOHAWK (REPUTED OWNER) T.M. #329.006-3-14

NIAGARA MOHAWK SUBSTATION NIAGARA MOHAWK (REPUTED OWNER) T.M. #329.006-3-16.2

PEOPLE OF THE STATE OF NEW YORK (REPUTED OWNER) T.M. #329.006-3-

HIGHWAY GARAGE TOWN OF NEW HARTFORD (NOW OR FORMERLY)

TRANSFER STATION TOWN OF NEW HARTFORD (NOW OR FORMERLY) LIBER 2507 / PAGE 42 T.M. #317.000-1-15.1

STD REALTY, LLC (NOW OR FORMERLY) INSTRUMENT #2014-008202 T.M. #317.014-5-5

STD REALTY, LLC (NOW OR FORMERLY) INSTRUMENT #2019-003906 T.M. #317.014-5-3

STD REALTY, LLC (NOW OR FORMERLY) INSTRUMENT #2019-003940 T.M. #317.000-1-15.2

MCGRAITH BEVERAGES STD REALTY, LLC (NOW OR FORMERLY) INSTRUMENT #2014-008202 T.M. #317.014-5-5

NEW YORK, SUSQUEHANNA & WESTERN RAILWAY CORPORATION (NOW OR FORMERLY) INSTRUMENT #2007-024705 T.M. #317.000-1-14

NEW YORK, SUSQUEHANNA & WESTERN RAILWAY CORPORATION (NOW OR FORMERLY) INSTRUMENT #2007-024705 T.M. #317.014-5-4

GEORGE MASSOUD & JANET MASSOUD (NOW OR FORMERLY) LIBER 2535/PAGE 197 T.M. #329.006-1-14

VILLAGE OF NEW YORK MILLS TOWN OF NEW HARTFORD

PIERA BOYS

CLINTON STREET

BURNSTONE ROAD

SILT FENCE, SEE DETAIL 1, SHEET C-17

1 PLAN: PHASE 1
SCALE: 1"=120'

GRAPHIC SCALE
120 0 60 120 240
(IN FEET)

LEGEND

DESCRIPTION	EXISTING	PROPOSED	TEMPORARY
ACCESS ROAD			
CONCRETE WASHOUT AREA			
SAUQUOIT CREEK			
ASPHALT			
BUILDING			
CREEK SEDIMENT/GRAVEL			
EXISTING WATERBODIES			
WOODS			
TEMPORARY STAGING AREA			
TEMPORARY STOCKPILE AREA			

SITE MAPPING

DESCRIPTION	EXISTING	PROPOSED
STORM LINE	D	
SEWER LINE	S	
OVERHEAD ELECTRIC	OHE	
CONTOURS	496	
SHEETPILING		
FENCING		
PROPERTY LINES		
RAILROAD		
EASEMENT		
CONSTRUCTION FENCE		
SILT FENCE		
LIMITS OF DISTURBANCE		

UTILITY STRUCTURES

DESCRIPTION	EXISTING
CATCH BASIN	
SEWER MANHOLE	
TELEPHONE POLE	T.P.

NOT FOR CONSTRUCTION

THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISION UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

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TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

NO.	DATE	REVISION	BY

PHASE 1: SITE ACCESS AND OVERALL PHASING PLAN

SCALE:	AS NOTED
DESIGNED BY:	JPB
DRAWN BY:	JPB/JGA
CHECKED BY:	JD/JPB
FILE NO.:	1209.012
DATE:	07.09.2025
DWG. NO:	C-8A

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PHASE 2: CONSTRUCTION SEQUENCE

1. EXECUTE DEMOLITION PLAN AS NEEDED TO PERFORM THE FOLLOWING WORK (SEE SHEETS C-2A AND C-2B).
2. CLEAR AND STRIP SITE TO LIMITS OF DISTURBANCE SHOWN. STOCKPILE TOPSOIL, INSTALL TEMPORARY SILT FENCE AT TOE, AND STABILIZE IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL NOTE 8 ON SHEET C-17.(1)
3. INSTALL NEW SANITARY SEWER.(2)
4. INSTALL STORM SEWERS WITH INLET AND OUTLET PROTECTION.(3)
5. RELOCATE ACCESS DRIVE TO PERMANENT LOCATION.(4)
6. COMPLETE ROUGH GRADING EXCEPT FOR INFILTRATION BASIN. COMPLETE TEMPORARY STABILIZATION IN ACCORDANCE WITH EROSION & SEDIMENT CONTROL DETAILS. INSTALL CHECK DAMS.(5) RELOCATE STAGING AREA AS NEEDED TO COMPLETE GRADING OPERATIONS.(6)
7. INSTALL RIVERSTONE SWALE (7), AND VEGETATED ACCESS DRIVE.(8)
8. INSTALL TEMPORARY COFFER DAM (9) AND COMPLETE SORTED RIPRAP BANK STABILIZATION.(10) ONCE COMPLETED, REMOVE TEMPORARY COFFER DAM.(9)
9. COMPLETE TRANSFER STATION WITH PERMANENT ACCESS DRIVE.(11)
10. INSTALL INFILTRATION BASIN, INCLUDING ALL REMAINING STORM SEWERS, SPILLWAYS AND STABILIZATION MEASURES.(12) PROTECT AREA FROM CONSTRUCTION RUNOFF AND SOIL COMPACTION.
11. COMPLETE FINAL GRADING, INSTALL PLANTINGS EXCEPT BAREROOT PLANTS LOCATED IN WETLANDS AND CONSTRUCTED FLOODPLAIN. TOPSOIL, SEED AND MULCH ALL DISTURBED AREAS (SEE LANDSCAPING PLANS C-9A – C-9C).
12. INSTALL GEOTEXTILE SLOPE STABILIZATION.(13)
13. THE FOLLOWING ACTIVITIES MAY BE EXECUTED AT FINAL CONSTRUCTION:
    a. ONCE SITE IS 80% STABLE, REMOVE TEMPORARY EROSION CONTROL MEASURES AND COMPLETE PLANTINGS IN FLOODPLAIN AND WETLANDS (SEE LANDSCAPING PLAN).(14) RESTORE ALL AREAS DISTURBED DURING PLANTING OPERATIONS.
    b. CONDUCT SITE INSPECTION WITH ENGINEER, COMPLETE ANY ADDITIONAL WORK/DISCREPANCIES/REPAIRS AS REQUIRED BY ENGINEER. RESTORE ANY DISTURBED AREAS.
    c. COMPLETE ASPHALT TRAIL.(15)
    d. REMOVE ALL REMAINING TEMPORARY MEASURES. TOPSOIL, SEED AND MULCH ALL REMAINING DISTURBED AREAS INCLUDING ALL ACCESS ROADS.
    e. INSTALL ALL CHAINLINK FENCING, INCLUDING GATES.(16) RESTORE ALL DISTURBED AREAS.

LEGEND

DESCRIPTION	EXISTING	PROPOSED	TEMPORARY
SAUQUOIT CREEK			
ACCESS ROAD			
INFILTRATION BASIN AREA			
ASPHALT			
BUILDING			
EXISTING WATERBODIES			
WOODS			
CONSTRUCTED WETLAND AREA			
GEOTEXTILE SLOPE STABILIZATION			
RELOCATED BERM			
RIVERSTONE SWALE			
RIPRAP STABILIZED SPILLWAY			
RIPRAP STABILIZED END SECTION			
SORTED RIPRAP BANK STABILIZATION			
TEMPORARY STAGING AREA			
TEMPORARY STOCKPILE AREA			
TRANSFER STATION PERMANENT ACCESS DRIVE			
VEGETATED ACCESS DRIVE			

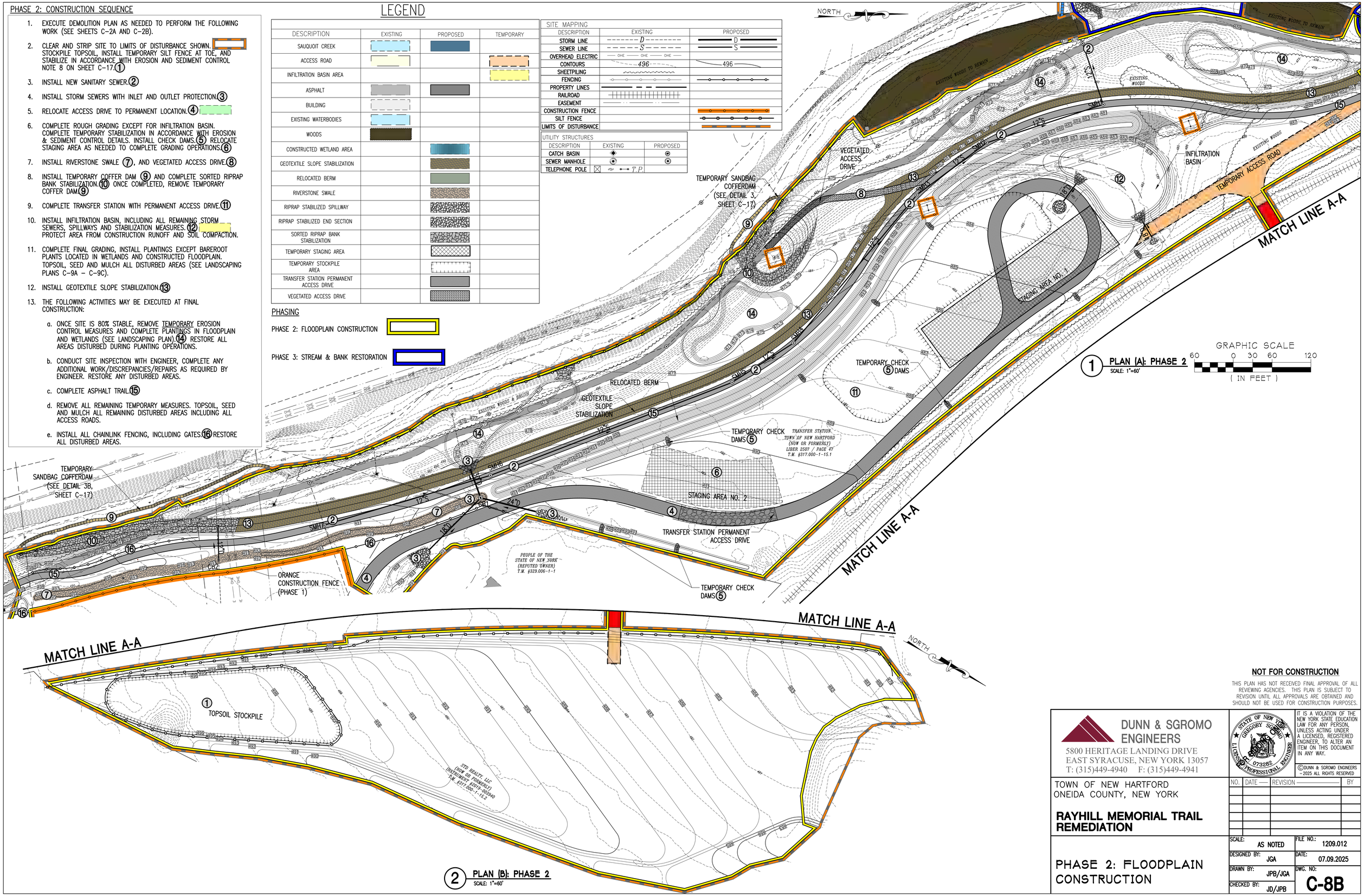
SITE MAPPING		
DESCRIPTION	EXISTING	PROPOSED
STORM LINE	D	D
SEWER LINE	S	S
OVERHEAD ELECTRIC	OHE	
CONTOURS	496	496
SHEETPILING		
FENCING		
PROPERTY LINES		
RAILROAD		
EASEMENT		
CONSTRUCTION FENCE		
SILT FENCE		
LIMITS OF DISTURBANCE		

UTILITY STRUCTURES		
DESCRIPTION	EXISTING	PROPOSED
CATCH BASIN		
SEWER MANHOLE		
TELEPHONE POLE	T.P.	

PHASING

PHASE 2: FLOODPLAIN CONSTRUCTION

PHASE 3: STREAM & BANK RESTORATION



1 PLAN (A): PHASE 2
SCALE: 1"=60'

GRAPHIC SCALE
60 0 30 60 120
(IN FEET)

2 PLAN (B): PHASE 2
SCALE: 1"=60'

NOT FOR CONSTRUCTION

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ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

NO.	DATE	REVISION	BY

PHASE 2: FLOODPLAIN CONSTRUCTION

SCALE: AS NOTED	FILE NO.: 1209.012
DESIGNED BY: JGA	DATE: 07.09.2025
DRAWN BY: JPB/JGA	DWG. NO: C-8B
CHECKED BY: JD/JPB	

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PHASE 3: CONSTRUCTION SEQUENCE

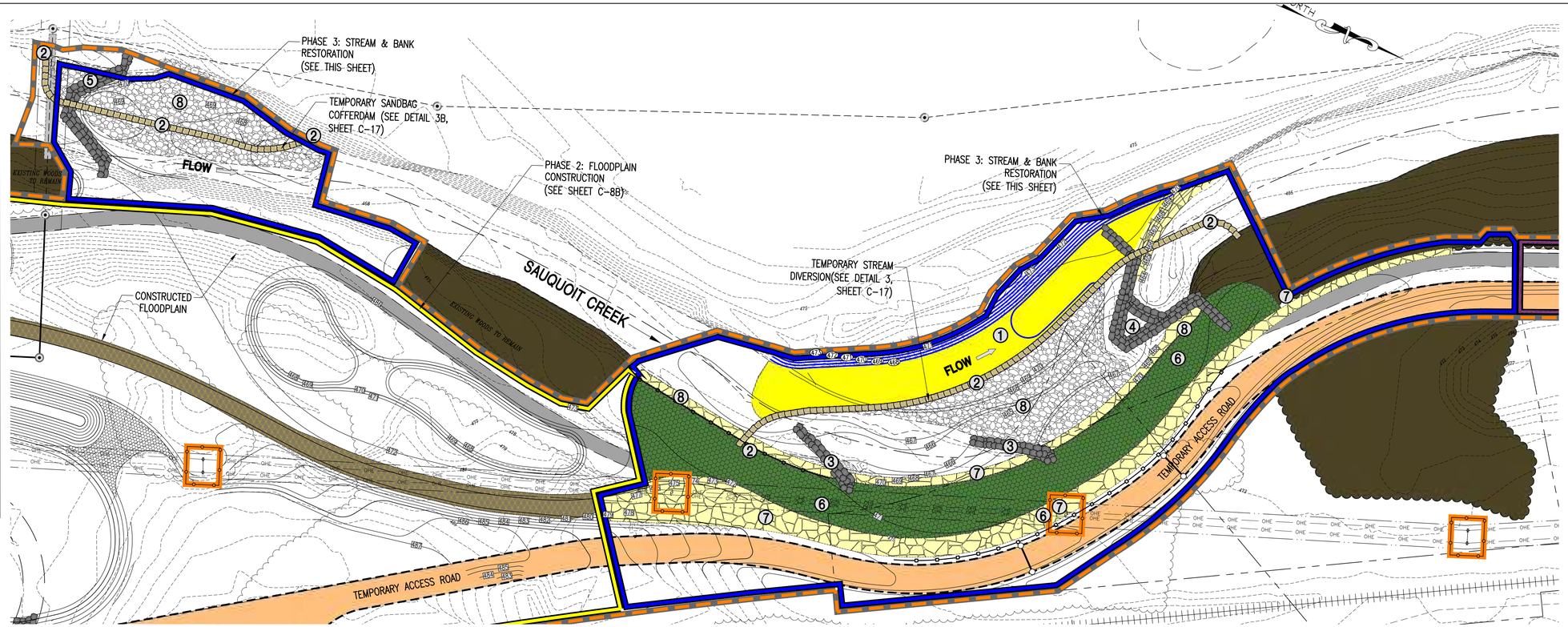
PHASE A:

1. EXECUTE DEMOLITION PLAN AS NEEDED TO PERFORM THE FOLLOWING WORK (SEE SHEETS C-2A AND C-2B).
2. INSTALL TEMPORARY STREAM DIVERSION ①, INSTALL COFFER DAM ② DEWATER DRY WORK AREA.
3. INSTALL STREAM BARBS ③, "A" VANE STRUCTURE ④ AND CROSS VANE ⑤ WITHIN THE LIMITS OF THE DEWATERED CREEK BED.
4. COMPLETE GRADING WITHIN DRY WORK AREA. ⑥ INSTALL SORTED RIPRAP BANK STABILIZATION. ⑦
5. COMPLETE FINAL GRADING OF DEWATERED CREEK BED. ⑧

PHASE B:

1. REMOVE COFFERDAM ⑨ AND INSTALL COFFERDAMS ⑩ TO DIVERT FLOW TO NEW CREEK BED .
2. COMPLETE REMAINING PORTIONS OF "A" VANE ⑪ AND CROSS VANE. ⑫
3. INSTALL STORM SEWER WITH INLET AND OUTLET PROTECTION. ⑬
4. COMPLETE FINAL GRADING AND STABILIZATION. ⑭
5. REMOVE REMAINING CREEK ACCESS AND COMPLETE FINAL STABILIZATION MEASURES.
6. THE FOLLOWING ACTIVITIES MAY BE EXECUTED AT FINAL CONSTRUCTION:
   a. ONCE SITE IS 80% STABLE, REMOVE TEMPORARY EROSION CONTROL MEASURES AND COMPLETE PLANTINGS IN FLOODPLAIN AND WETLANDS (SEE LANDSCAPING PLAN). ⑮ RESTORE ALL AREAS DISTURBED DURING PLANTING OPERATIONS.
   b. CONDUCT SITE INSPECTION WITH ENGINEER, COMPLETE ANY ADDITIONAL WORK/DISCREPANCIES/REPAIRS AS REQUIRED BY ENGINEER. RESTORE ANY DISTURBED AREAS.
   c. COMPLETE ASPHALT TRAIL. ⑯
   d. REMOVE ALL REMAINING TEMPORARY MEASURES. TOPSOIL, SEED AND MULCH ALL REMAINING DISTURBED AREAS INCLUDING ALL ACCESS ROADS.

NOTE:
1. TEMPORARY ACCESS, SEE ACCESS NOTES 2 & 3 ON SHEET C-0.
2. ANY DEWATERING BY WELL POINTING OR PUMPING SHALL BE DISCHARGED THROUGH FILTER BAGS LOCATED IN UNDISTURBED, STABILIZED VEGETATED AREAS AT LEAST 20' FROM CREEK.



① PLAN: PHASE 3A
SCALE: 1"=40'

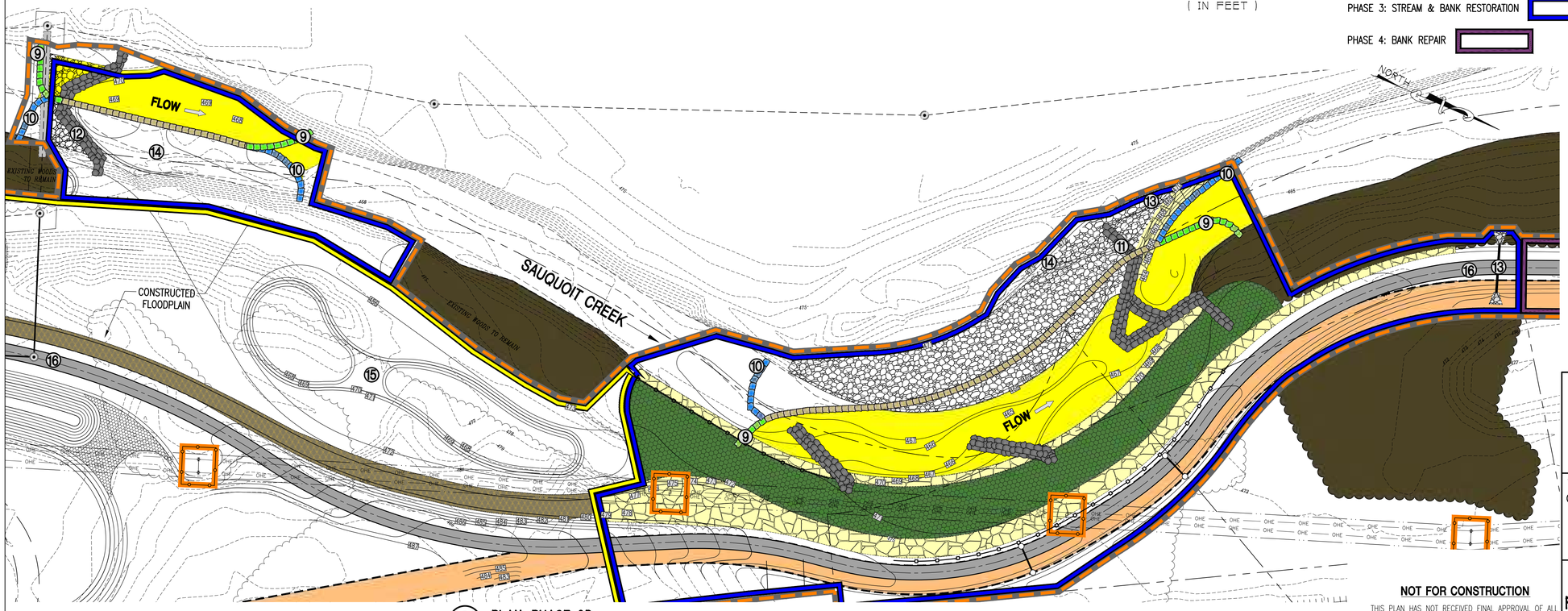
GRAPHIC SCALE
40 0 20 40 80
(IN FEET)

PHASING
PHASE 2: FLOODPLAIN CONSTRUCTION
PHASE 3: STREAM & BANK RESTORATION
PHASE 4: BANK REPAIR

LEGEND

DESCRIPTION	EXISTING	PROPOSED	TEMPORARY
SAUQUOIT CREEK			
ACCESS ROAD			
ASPHALT			
CREEK SEDIMENT/GRAVEL			
EXISTING WATERBODIES			
WOODS			
CONSTRUCTED WETLAND AREA			
GEOTEXTILE SLOPE STABILIZATION			
REINFORCED FLOOD BENCH			
RELOCATED BERM			
SORTED RIPRAP BANK STABILIZATION			

SITE MAPPING			
DESCRIPTION	EXISTING	PROPOSED	TEMPORARY
CONTOURS	496	496	496
OVERHEAD ELECTRIC	OHE OHE OHE		
PROPERTY LINES			
RAILROAD			
EASEMENT			
SILT FENCE			
LIMITS OF DISTURBANCE			



② PLAN: PHASE 3B
SCALE: 1"=40'

NOT FOR CONSTRUCTION

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TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

NO.	DATE	REVISION	BY

PHASE 3: STREAM & BANK RESTORATION

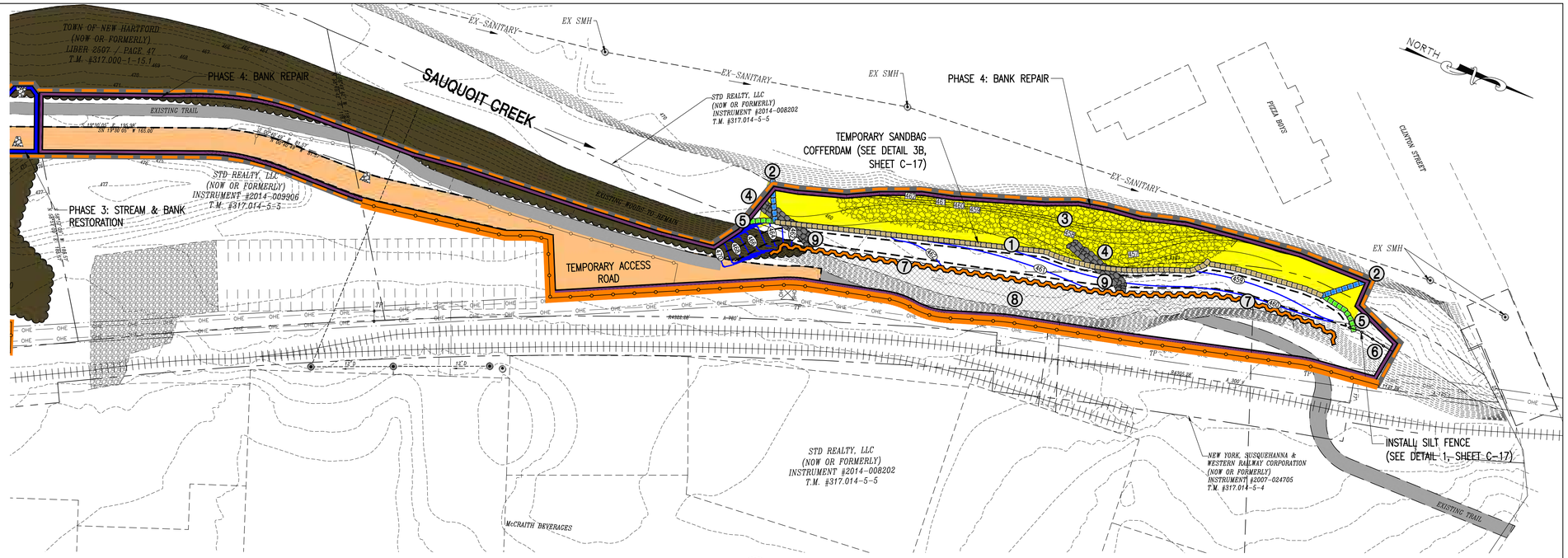
SCALE:	AS NOTED
FILE NO.:	1209.012
DESIGNED BY:	JPB
DATE:	07.09.2025
DRAWN BY:	JPB/JGA
DWG. NO:	C-8C
CHECKED BY:	JD

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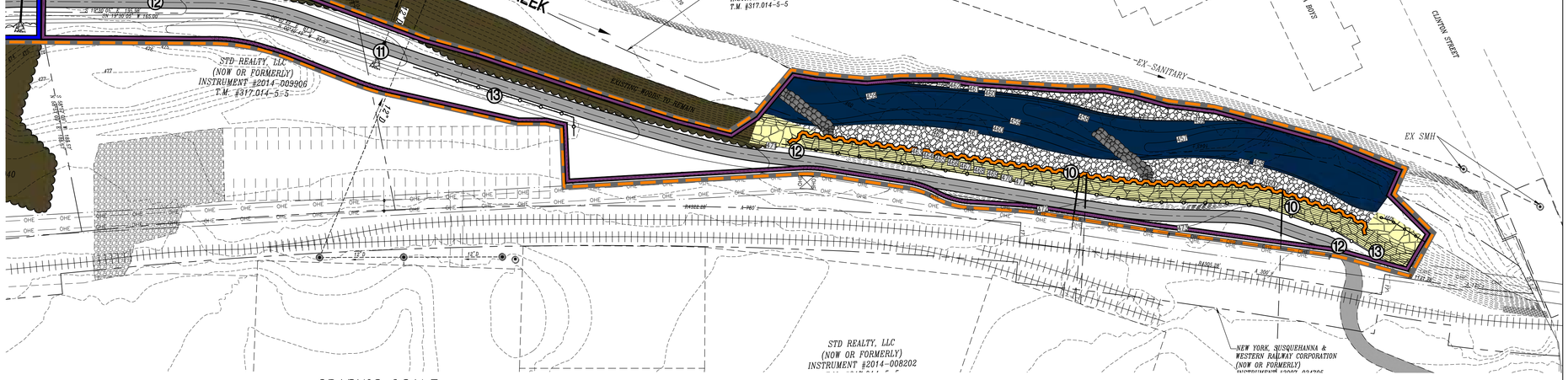
PHASE 4: CONSTRUCTION SEQUENCE

1. EXECUTE DEMOLITION PLAN AS NEEDED TO PERFORM THE FOLLOWING WORK (SEE SHEET C-2C).
2. INSTALL COFFERDAMS ① AND ② TO REMOVE EXISTING CREEK GRAVEL AND DIVERT CREEK TO WEST SIDE OF STREAM CORRIDOR ③. INSTALL PORTION OF STREAM BARBS THAT ARE WITHIN THE NEW STREAM CORRIDOR ④.
3. REMOVE COFFERDAMS ② AND INSTALL COFFERDAMS ⑤, DEWATER WORK AREA.
4. INSTALL SILT FENCE⑥.
5. INSTALL SHEETPILING RETAINING WALL ⑦ AND BACKFILL ⑧.
6. COMPLETE ROUGH GRADING AND COMPLETE STREAM BARBS ⑨.
7. INSTALL SORTED RIPRAP BANK STABILIZATION AND DRAINAGE⑩.
8. REMOVE COFFERDAM ① AND ⑤.
9. INSTALL STORM SEWER WITH INLET AND OUTLET PROTECTION ⑪.
10. COMPLETE FINAL GRADING.
11. REMOVE REMAINING CREEK ACCESS AND COMPLETE FINAL STABILIZATION MEASURES.
12. THE FOLLOWING ACTIVITIES MAY BE EXECUTED AT FINAL CONSTRUCTION:
    a. CONDUCT SITE INSPECTION WITH ENGINEER, COMPLETE ANY ADDITIONAL WORK/DISCREPANCIES/REPAIRS AS REQUIRED BY ENGINEER. RESTORE ANY DISTURBED AREAS.
    b. COMPLETE ASPHALT TRAIL.⑫
    c. REMOVE ALL REMAINING TEMPORARY MEASURES. TOPSOIL, SEED AND MULCH ALL REMAINING DISTURBED AREAS INCLUDING ALL ACCESS ROADS.
    d. INSTALL ALL CHAINLINK FENCING, INCLUDING GATES.⑬ RESTORE ALL DISTURBED AREAS.

NOTE:
1. TEMPORARY ACCESS, SEE ACCESS NOTES 2 & 3 ON SHEET C-0.
2. ANY DEWATERING BY WELL POINTING OR PUMPING SHALL BE DISCHARGED THROUGH FILTER BAGS LOCATED IN UNDISTURBED, STABILIZED VEGETATED AREAS AT LEAST 20' FROM CREEK.



1 **PLAN: PHASE 4A**
SCALE: 1"=50'



2 **PLAN: PHASE 4B**
SCALE: 1"=50'

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)

LEGEND

DESCRIPTION	EXISTING	PROPOSED	TEMPORARY
SAUQUOIT CREEK			
ACCESS ROAD			
PAVEMENT			
CREEK SEDIMENT/GRAVEL			
BUILDING			
WOODS			
SLOPED RIPRAP BANK STABILIZATION			

PHASING

PHASE 3: STREAM & BANK REPAIR

PHASE 4: BANK REPAIR

SITE MAPPING

DESCRIPTION	EXISTING	PROPOSED	TEMPORARY
CONTOURS	496	496	496
STORM LINE	D	D	
OVERHEAD ELECTRIC	OHE		
PROPERTY LINES			
RAILROAD			
EASEMENT			
SHEETPILING			
SILT FENCE			
LIMITS OF DISTURBANCE			
CONSTRUCTION FENCE			

NOT FOR CONSTRUCTION
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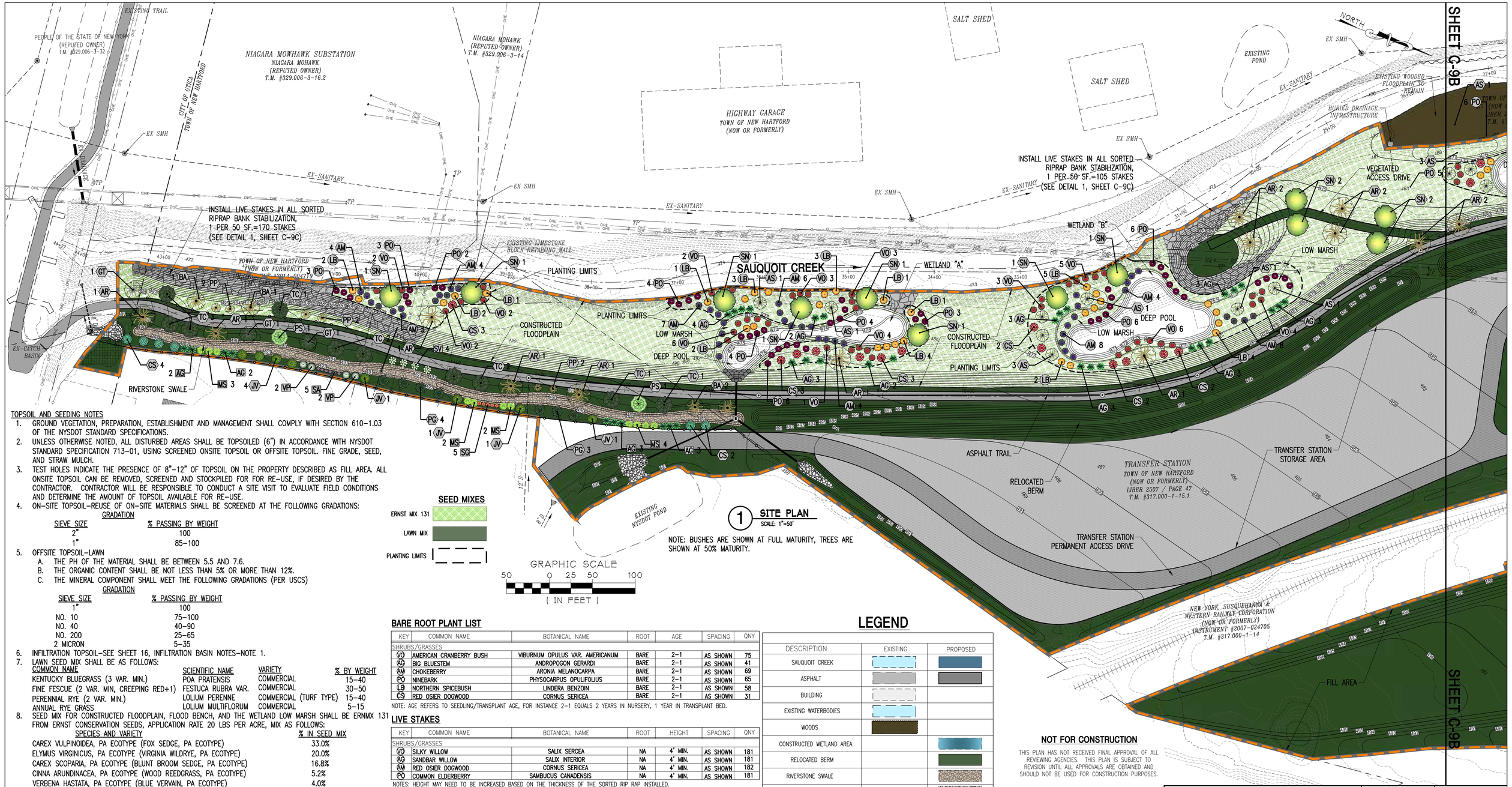
TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

PHASE 4: BANK REPAIR

SCALE:	AS NOTED
DESIGNED BY:	JPB
DRAWN BY:	JPB/JGA
CHECKED BY:	JD
FILE NO.:	1209.012
DATE:	07.09.2025
DWG. NO:	C-8D

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1 SITE PLAN
SCALE: 1"=50'

NOTE: BUSHES ARE SHOWN AT FULL MATURITY, TREES ARE SHOWN AT 50% MATURITY.

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)

TOPSOIL AND SEEDING NOTES

1. GROUND VEGETATION, PREPARATION, ESTABLISHMENT AND MANAGEMENT SHALL COMPLY WITH SECTION 610-1.03 OF THE NYSDOT STANDARD SPECIFICATIONS.
2. UNLESS OTHERWISE NOTED, ALL DISTURBED AREAS SHALL BE TOPSOILED (6") IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION 713-01, USING SCREENED ONSITE TOPSOIL OR OFFSITE TOPSOIL. FINE GRADE, SEED, AND STRAW MULCH.
3. TEST HOLES INDICATE THE PRESENCE OF 8"-12" OF TOPSOIL ON THE PROPERTY DESCRIBED AS FILL AREA. ALL ONSITE TOPSOIL CAN BE REMOVED, SCREENED AND STOCKPILED FOR FOR RE-USE, IF DESIRED BY THE CONTRACTOR. CONTRACTOR WILL BE RESPONSIBLE TO CONDUCT A SITE VISIT TO EVALUATE FIELD CONDITIONS AND DETERMINE THE AMOUNT OF TOPSOIL AVAILABLE FOR RE-USE.
4. ON-SITE TOPSOIL-REUSE OF ON-SITE MATERIALS SHALL BE SCREENED AT THE FOLLOWING GRADATIONS:

GRADATION	
SIEVE SIZE	% PASSING BY WEIGHT
2"	100
1"	85-100

5. OFFSITE TOPSOIL-LAWN
   - A. THE PH OF THE MATERIAL SHALL BE BETWEEN 5.5 AND 7.6.
   - B. THE ORGANIC CONTENT SHALL BE NOT LESS THAN 5% OR MORE THAN 12%.
   - C. THE MINERAL COMPONENT SHALL MEET THE FOLLOWING GRADATIONS (PER USCS)

GRADATION	
SIEVE SIZE	% PASSING BY WEIGHT
1"	100
NO. 10	75-100
NO. 40	40-90
NO. 200	25-65
2 MICRON	5-35

6. INFILTRATION TOPSOIL-SEE SHEET 16, INFILTRATION BASIN NOTES-NOTE 1.
7. LAWN SEED MIX SHALL BE AS FOLLOWS:

COMMON NAME	SCIENTIFIC NAME	VARIETY	% BY WEIGHT
KENTUCKY BLUEGRASS (3 VAR. MIN.)	POA PRATENSIS	COMMERCIAL	15-40
FINE FESCUE (2 VAR. MIN, CREEPING RED+1)	FESTUCA RUBRA VAR.	COMMERCIAL	30-50
PERENNIAL RYE (2 VAR. MIN.)	LOLIUM PERENNE	COMMERCIAL (TURF TYPE)	15-40
ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	COMMERCIAL	5-15

8. SEED MIX FOR CONSTRUCTED FLOODPLAIN, FLOOD BENCH, AND THE WETLAND LOW MARSH SHALL BE ERNMX 131 FROM ERNST CONSERVATION SEEDS, APPLICATION RATE 20 LBS PER ACRE, MIX AS FOLLOWS:

SPECIES AND VARIETY	% IN SEED MIX
CAREX VULPINOIDEA, PA ECOTYPE (FOX SEDGE, PA ECOTYPE)	33.0%
ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDRYE, PA ECOTYPE)	20.0%
CAREX SCOPARIA, PA ECOTYPE (BLUNT BROOM SEDGE, PA ECOTYPE)	16.8%
CINNA ARUNDINACEA, PA ECOTYPE (WOOD REEDGRASS, PA ECOTYPE)	5.2%
VERBENA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE)	4.0%
CAREX LUPULINA, PA ECOTYPE (HOP SEDGE, PA ECOTYPE)	3.0%
CAREX LURIDA, PA ECOTYPE (LURID SEDGE, PA ECOTYPE)	3.0%
JUNCUS EFFUSUS (SOFT RUSH)	3.0%
ASCLEPIAS INCARNATA, PA ECOTYPE (SWAMP MILKWEED, PA ECOTYPE)	2.0%
HELIOPSIS HELIANTHOIDES, PA ECOTYPE (OXEYE SUNFLOWER, PA ECOTYPE)	2.0%
BIDENS CERNUA, PA ECOTYPE (NODDING BUR MARIGOLD, PA ECOTYPE)	1.5%
EUPATORIUM PERFOLIATUM, PA ECOTYPE (BONESET, PA ECOTYPE)	1.0%
HELENIUM AUTUMNALE, PA ECOTYPE (COMMON SNEEZEWEED, PA ECOTYPE)	1.0%
ZIZIA AUREA (GOLDEN ALEXANDERS)	1.0%
ALISMA SUBCORDATUM, PA ECOTYPE (MUD PLANTAIN, PA ECOTYPE)	0.5%
ASTER PUNICEUS, PA ECOTYPE (PURPLESTEM ASTER, PA ECOTYPE)	0.5%
ASTER NOVAE-ANGLIAE, PA ECOTYPE (NEW ENGLAND ASTER, PA ECOTYPE)	0.4%
ASTER PRENANTHOIDES, PA ECOTYPE (ZIGZAG ASTER, PA ECOTYPE)	0.4%
ASTER UMBELLATUS, PA ECOTYPE (FLAT TOPPED WHITE ASTER, PA ECOTYPE)	0.4%
EUPATORIUM FISTULOSUM, PA ECOTYPE (JOE PYE WEED, PA ECOTYPE)	0.3%
LOBELIA SIPHILITICA, PA ECOTYPE (GREAT BLUE LOBELIA, PA ECOTYPE)	0.3%
SCIRPUS CYPERINUS, PA ECOTYPE (WOOLGRASS, PA ECOTYPE)	0.3%
PENTHORUM SEDOIDES, PA ECOTYPE (DITCH STONECROP, PA ECOTYPE)	0.2%
CHELONE GLABRA, PA ECOTYPE (TURTLEHEAD, PA ECOTYPE)	0.1%
SOLIDAGO RUGOSA, PA ECOTYPE (WRINKLELEAF GOLDENROD, PA ECOTYPE)	0.1%

SEED MIXES

- ERNST MIX 131
- LAWN MIX
- PLANTING LIMITS

BARE ROOT PLANT LIST

KEY	COMMON NAME	BOTANICAL NAME	ROOT	AGE	SPACING	QNY
SHRUBS/GRASSES						
VO	AMERICAN CRANBERRY BUSH	VIBURNUM OPULUS VAR. AMERICANUM	BARE	2-1	AS SHOWN	75
AG	BIG BLUESTEM	ANDROPOGON GERARDI	BARE	2-1	AS SHOWN	41
AM	CHOKEBERRY	ARONIA MELANOCARPA	BARE	2-1	AS SHOWN	69
PO	NINEBARK	PHYSOCARPUS OPULIFOLIUS	BARE	2-1	AS SHOWN	65
LB	NORTHERN SPICEBUSH	LINDERA BENZOIN	BARE	2-1	AS SHOWN	58
CS	RED OSIER DOGWOOD	CORNUS SERICEA	BARE	2-1	AS SHOWN	31

NOTE: AGE REFERS TO SEEDLING/TRANSPLANT AGE, FOR INSTANCE 2-1 EQUALS 2 YEARS IN NURSERY, 1 YEAR IN TRANSPLANT BED.

LIVE STAKES

KEY	COMMON NAME	BOTANICAL NAME	ROOT	HEIGHT	SPACING	QNY
SHRUBS/GRASSES						
VO	SILKY WILLOW	SALIX SERCEA	NA	4' MIN.	AS SHOWN	181
AG	SANDBAR WILLOW	SALIX INTERIOR	NA	4' MIN.	AS SHOWN	181
AM	RED OSIER DOGWOOD	CORNUS SERICEA	NA	4' MIN.	AS SHOWN	182
PO	COMMON ELDERBERRY	SAMBUCUS CANADENSIS	NA	4' MIN.	AS SHOWN	181

NOTES: HEIGHT MAY NEED TO BE INCREASED BASED ON THE THICKNESS OF THE SORTED RIP RAP INSTALLED.

PLANT LIST

KEY	COMMON NAME	BOTANICAL NAME	ROOT	SIZE	SPACING	QNY
TREES						
PG	CANADIAN SPRUCE	PICEA GLAUCA	B&B	6' HGT.	AS SHOWN	11
CS	COLORADO BLUE SPRUCE	PICEA PUNGENS	B&B	6' HGT.	AS SHOWN	10
TC	EASTERN HEMLOCK	TSUGA CANADENSIS	B&B	6' HGT.	AS SHOWN	10
JV	EASTERN RED CEDAR	JUNIPERUS VIRGINIANA	B&B	6' HGT.	AS SHOWN	8
SN	BLACK WILLOW	SALIX NIGRA	B&B	2.5" CAL.	AS SHOWN	15
PP	PIN CHERRY	PRUNUS PENSYLVANICA	B&B	2.5" CAL.	AS SHOWN	14
AR	RED SUNSET RED MAPLE	ACER RUBRUM 'FRANKSRED	B&B	2.5" CAL.	AS SHOWN	19
GT	SKYLINE HONEYLOCUST	GLEDITSIA TRIACANTHOS F. INERMIS	B&B	2.5" CAL.	AS SHOWN	3
PS	WHITE PINE	PINUS Strobus	B&B	6' HGT.	AS SHOWN	2
BA	YELLOW BIRCH	BETULA ALLEGHANIESIS	B&B	2.5" CAL.	AS SHOWN	4
AS	SMOOTH ALDER	ALNUS SERRULATA	B&B	2.5" CAL.	AS SHOWN	8
SHRUBS/GRASSES						
SA	ANTHONY WATERER SPIREA	SPIRAEA x BUMALDA "ANTHONY WATERER"	CONT.	NO. 5	AS SHOWN	6
VP	DOUBLEFILE VIBURNUM	VIBURNUM PLICATUM TOMENTOSUM "MARIESII"	CONT.	NO. 5	AS SHOWN	4
SG	GOLDFLAME SPIREAM	SPIRAEA x BUMALDA "GOLDFLAME"	CONT.	NO. 5	AS SHOWN	5
SV	VANHOUTTE SPIREA	SPIREA x VANHOUTTEI	CONT.	NO. 5	AS SHOWN	4
AG	BIG BLUESTEM	ANDROPOGON GERARDI	CONT.	NO. 5	AS SHOWN	10
MS	MAIDEN GRASS	MISCANTHUS SINENSIS	CONT.	NO. 5	AS SHOWN	11

LEGEND

DESCRIPTION	EXISTING	PROPOSED
SAUQUOIT CREEK		
ASPHALT		
BUILDING		
EXISTING WATERBODIES		
WOODS		
CONSTRUCTED WETLAND AREA		
RELOCATED BERM		
RIVERSTONE SWALE		
RIPRAP STABILIZED SPILLWAY		
RIPRAP STABILIZED END SECTION		
SORTED RIPRAP BANK STABILIZATION		
TRANSFER STATION STORAGE AREA		
TRANSFER STATION PERMANENT ACCESS DRIVE		
VEGETATED ACCESS DRIVE		

SITE MAPPING		
DESCRIPTION	EXISTING	PROPOSED
STORM LINE	D	D
SEWER LINE	S	S
OVERHEAD ELECTRIC	OHE	
CONTOURS	496	496
SHEETPILING		
FENCING		
PROPERTY LINES		
RAILROAD		
EASEMENT		
LIMITS OF DISTURBANCE		

UTILITY STRUCTURES		
DESCRIPTION	EXISTING	PROPOSED
CATCH BASIN		
SEWER MANHOLE		
TELEPHONE POLE	T.P.	
TEST WELL		

NOT FOR CONSTRUCTION

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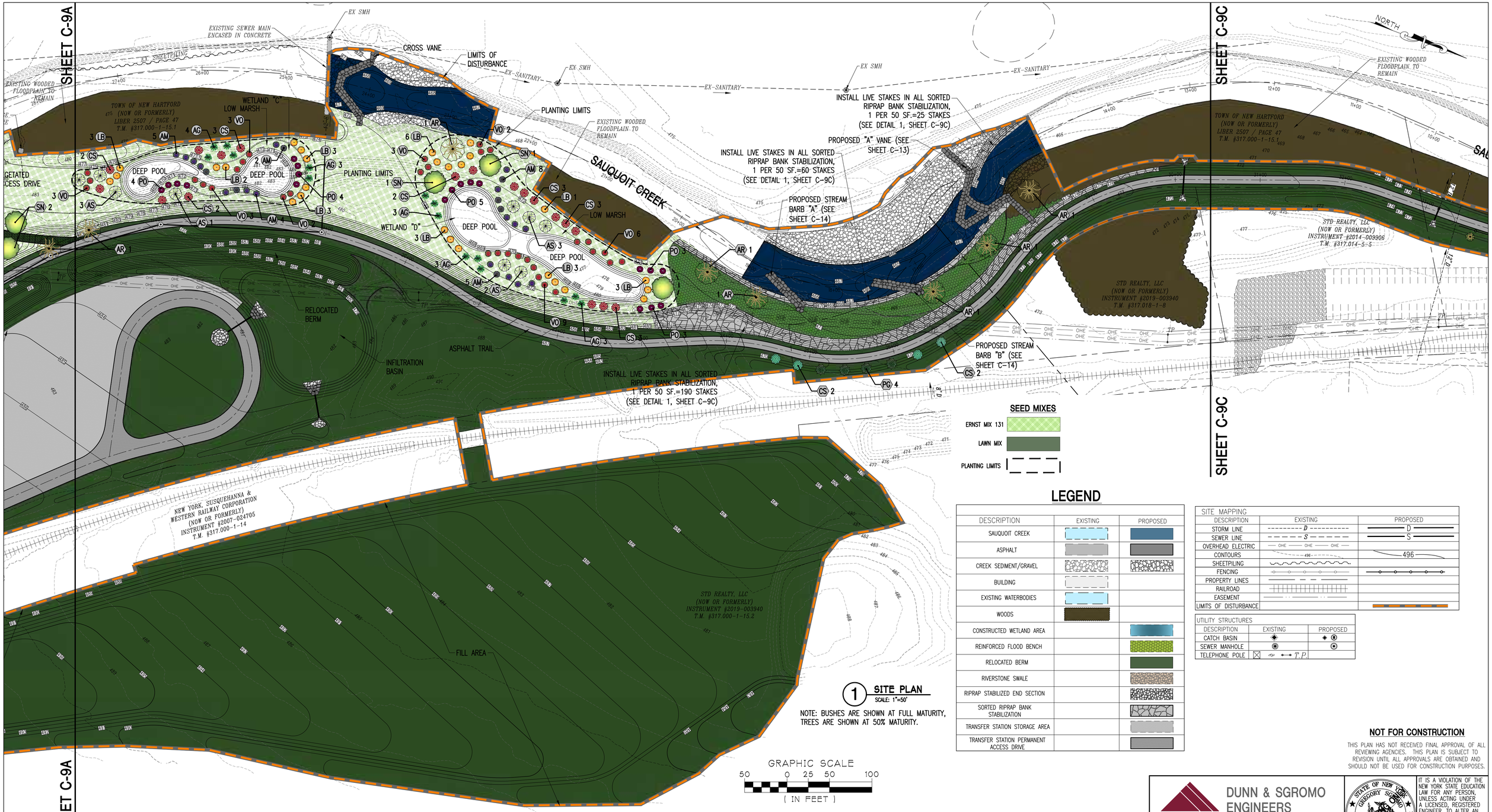
RAYHILL MEMORIAL TRAIL REMEDIATION

LANDSCAPING PLAN

NO.	DATE	REVISION	BY

SCALE: AS NOTED
FILE NO.: 1209.012
DESIGNED BY: JPB
DATE: 07.09.2025
DRAWN BY: JPB/JGA
CHECKED BY: JD/JPB
DWG. NO: C-9A

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LEGEND

DESCRIPTION	EXISTING	PROPOSED
SAUQUOIT CREEK		
ASPHALT		
CREEK SEDIMENT/GRAVEL		
BUILDING		
EXISTING WATERBODIES		
WOODS		
CONSTRUCTED WETLAND AREA		
REINFORCED FLOOD BENCH		
RELOCATED BERM		
RIVERSTONE SWALE		
RIPRAP STABILIZED END SECTION		
SORTED RIPRAP BANK STABILIZATION		
TRANSFER STATION STORAGE AREA		
TRANSFER STATION PERMANENT ACCESS DRIVE		

SITE MAPPING		
DESCRIPTION	EXISTING	PROPOSED
STORM LINE	D	D
SEWER LINE	S	S
OVERHEAD ELECTRIC	OHE	
CONTOURS	496	496
SHEETPILING		
FENCING		
PROPERTY LINES		
RAILROAD		
EASEMENT		
LIMITS OF DISTURBANCE		

UTILITY STRUCTURES		
DESCRIPTION	EXISTING	PROPOSED
CATCH BASIN		
SEWER MANHOLE		
TELEPHONE POLE	T.P.	

1 **SITE PLAN**
SCALE: 1"=50'

NOTE: BUSHES ARE SHOWN AT FULL MATURITY, TREES ARE SHOWN AT 50% MATURITY.

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)

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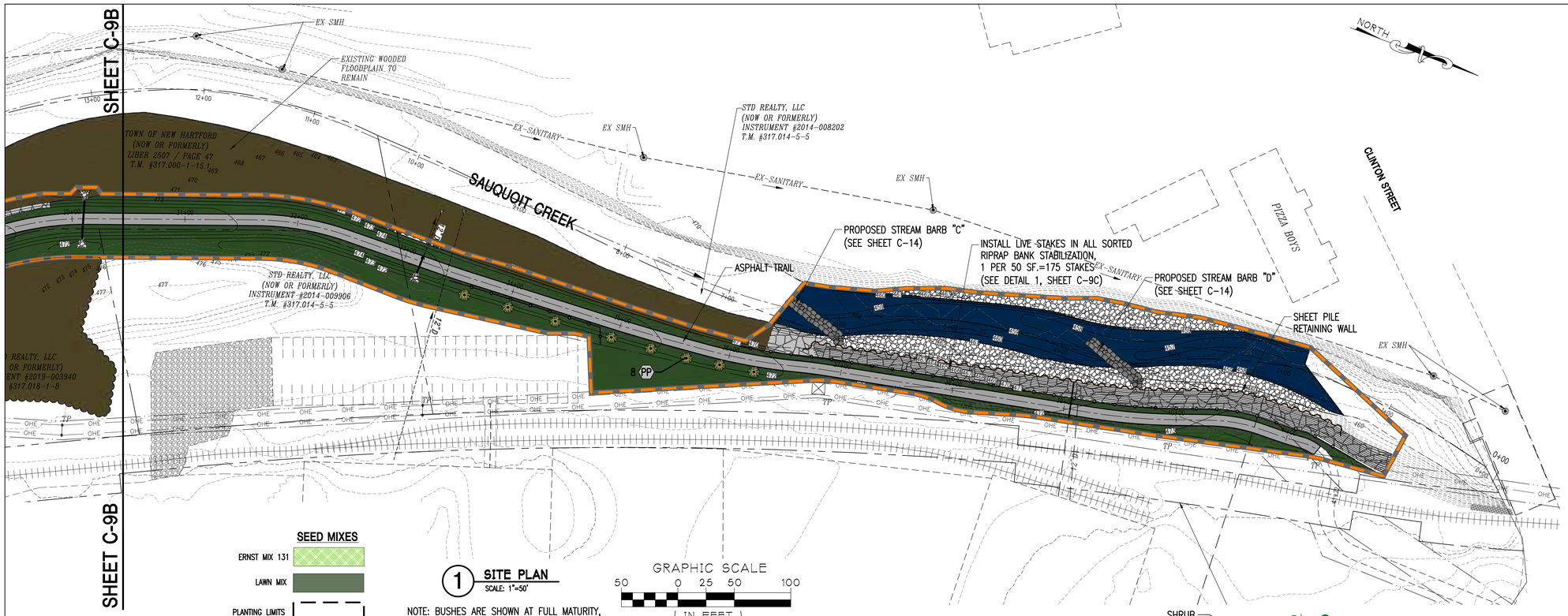
RAYHILL MEMORIAL TRAIL REMEDIATION

LANDSCAPING PLAN

NO.	DATE	REVISION	BY

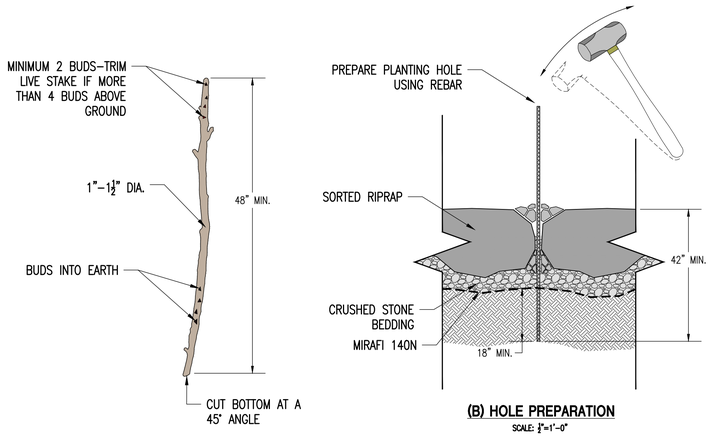
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DWG. NO: C-9B
CHECKED BY: JD

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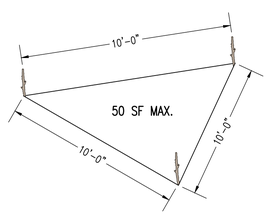
1 SITE PLAN
SCALE: 1"=50'

NOTE: BUSHES ARE SHOWN AT FULL MATURITY, TREES ARE SHOWN AT 50% MATURITY.

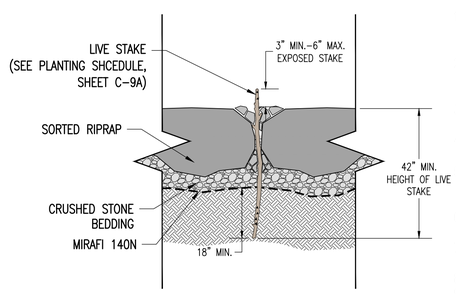


(A) LIVE STAKE
SCALE: 1"=1'-0"

(B) HOLE PREPARATION
SCALE: ¾"=1'-0"



(C) SPACING
SCALE: NTS

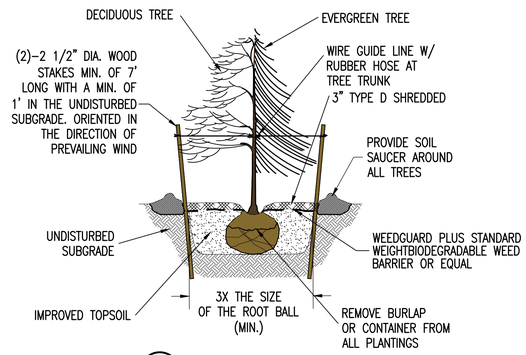


(C) PLANTING
SCALE: ¾"=1'-0"

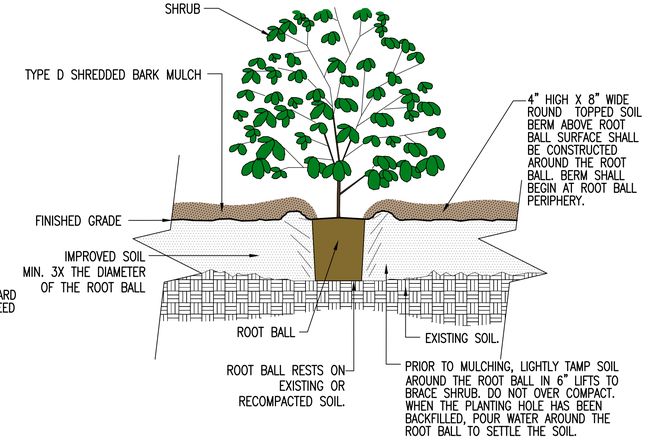
1 LIVE STAKING DETAIL
SCALE: AS SHOWN

LIVE STAKE NOTES

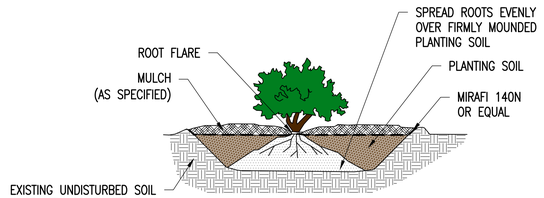
1. CARE SHALL BE TAKEN NOT TO DAMAGE THE LIVE STAKES DURING INSTALLATION. ALL LIVE STAKES DAMAGED DURING INSTALLATION SHALL BE LEFT IN PLACE AND AND SUPPLEMENTED WITH AN INTACT LIVE SPECIMEN AT THE CONTRACTOR'S EXPENSE.
2. THE LENGTHS OF THE LIVE STAKES DEPENDS ON THE THICKNESS OF THE SORTED RIP RAP. THE STAKE MUST EXTEND PAST THE STONE AND BEDDING MATERIAL AND INTO THE SOIL A MINIMUM OF 18".
3. A PILOT HOLE, USING REBAR OR ANOTHER SIMILAR TOOL IS REQUIRED TO PREVENT DAMAGE TO THE LIVE STAKE WHEN DRIVEN THROUGH THE STONE FILL.
4. MINIMUM OF 3", TO A MAXIMUM OF 6" OF THE LIVE STAKE SHALL EXTEND ABOVE THE SORTED RIP RAP. 2-4 BUDS SHALL BE EXPOSED.
5. LIVE STAKES SHALL BE A MINIMUM OF 1.5" IN DIAMETER AND 4' IN LENGTH. LARGER STAKES MAY BE NECESSARY DEPENDING ON THE THICKNESS OF THE SORTED RIP RAP INSTALLED.
6. LIVE STAKES SHALL BE CUT TO A 45° ANGLE ON THE BASAL END FOR INSERTION INTO THE GROUND.
7. A DEAD BLOW HAMMER (FILLED WITH SHOT OR SAND) SHALL BE USED TO DRIVE THE LIVE STAKES INTO THE PILOT HOLE.
8. WHEN POSSIBLE TAMP SOIL AROUND LICE STAKES.
9. ALL PLANT MATERIAL SHALL BE KEPT MOIST, GREEN AND HEALTHY. NO LEAF BUDS SHALL HAVE INITIATED GROWTH BEYOND ¼". ALL MATERIALS HARVESTED SHALL BE INSTALLED ON THE SAME DAY OF HARVESTING.
10. LIVE STAKES SHALL BE A MIXTURE OF WILLOW, DOGWOOD AND ELDERBERRY. SEE PLANT LIST ON SHEET C-9A FOR THE AMOUNTS OF EACH PLANT SPECIES.



2 DETAIL: TREE PLANTING
NOT TO SCALE



3 DETAIL: SHRUB - MODIFIED SOIL (NYSDOT ITEM NO. 611.0412)
SCALE= 3/4" = 1'-0"



4 DETAIL: BARE ROOT SHRUB PLANTING
NOT TO SCALE

LEGEND

DESCRIPTION	EXISTING	PROPOSED
SAUQUOIT CREEK		
ASPHALT		
CREEK SEDIMENT/GRAVEL		
BUILDING		
WOODS		
RIPRAP STABILIZED END SECTION		
SORTED RIPRAP BANK STABILIZATION		

SITE MAPPING		
DESCRIPTION	EXISTING	PROPOSED
STORM LINE	D	D
SEWER LINE	S	S
OVERHEAD ELECTRIC	OHE	OHE
CONTOURS	496	496
SHEETPILING		
FENCING		
PROPERTY LINES		
RAILROAD		
EASEMENT		
LIMITS OF DISTURBANCE		

UTILITY STRUCTURES		
DESCRIPTION	EXISTING	PROPOSED
CATCH BASIN		
SEWER MANHOLE		
TELEPHONE POLE	T.P.	

PLANTING NOTES:

1. IMPROVED TOPSOIL FOR PLANTING PITS SHALL BE A MIXTURE OF TOPSOIL, COCONUT COIR AND FERTILIZER AT THE FOLLOWING RATIO: 1 CUBIC YARD TOPSOIL, 6 CUBIC FEET ORGANIC SUPPLEMENT (ALL-GRO), SLOW-RELEASE ORGANIC FERTILIZER (IN ACCORDANCE WITH THE FERTILIZERS AND SOIL AMENDMENTS SECTION OF THE GENERAL NOTES). AND 2 LBS VITERRA GELSCAPE; ADJUST pH TO 6.0-70.
2. SHRUB PLANTING - ADD ADDITIONAL 1 OZ. VITERRA GELSCAPE PER 1" OF CALIPER (OR, 1 OZ. PER FOOT OF BALL DIAM.) TO BACKFILL WHEN PLANTING.
3. PLANTING BALL - ON B&B MATERIAL, BURLAP AND WIRE BASKET SHALL BE REMOVED FROM THE ROOT BALL. ON CONTAINER MATERIAL, CONTAINERS SHALL BE REMOVE PRIOR TO INSTALLATION.
4. HEIGHT OF PLANTING SAUCER SHALL BE 3"
5. MATERIALS (TUBES/ CAGING) FOR PROTECTION OF PLANTS SHALL BE COMMERCIALLY AVAILABLE PRODUCT OR SYSTEM FOR SUPPORTING OF TREES.
6. ALL TAGS, LABELS, ETC. SHALL BE REMOVED FROM PLANTS.
7. TREE SUPPORT METHOD MUST USE COMMERCIALLY AVAILABLE PRODUCTS INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
8. THE ROOT FLARE SHALL BE VISIBLE AND LEVEL WITH SURROUNDING SOIL.
9. ALL LANDSCAPING AND LAWN AREAS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE. DEAD MATERIAL SHALL BE REPLACED, AND PLANT MATERIAL SHALL BE REGULARLY PRUNED AND NOURISHED TO MAINTAIN HEALTH.
10. A MONETARY BOND AND PLANTING WARRANTEE SHALL BE PROVIDED FOR 2 GROWING SEASONS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

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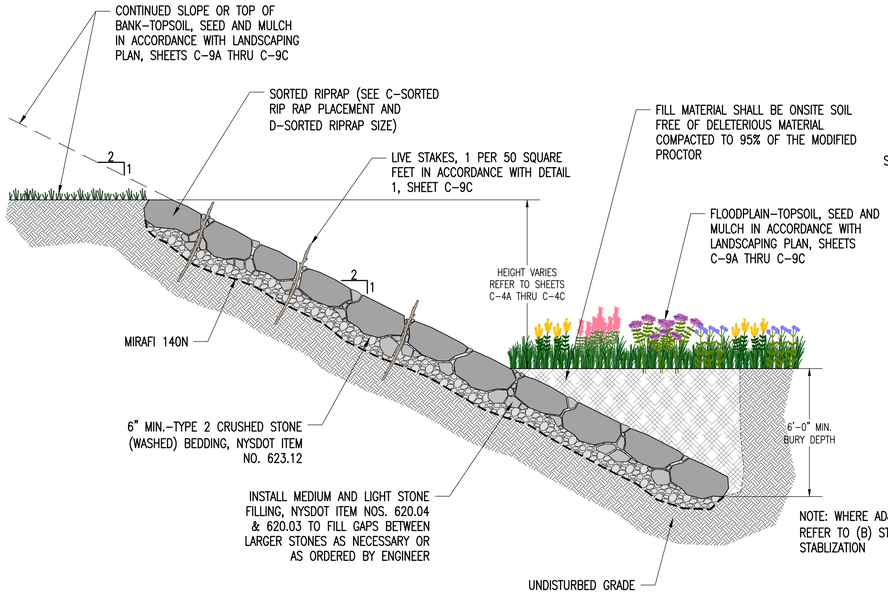
RAYHILL MEMORIAL TRAIL REMEDIATION

NO.	DATE	REVISION	BY

LANDSCAPING PLAN

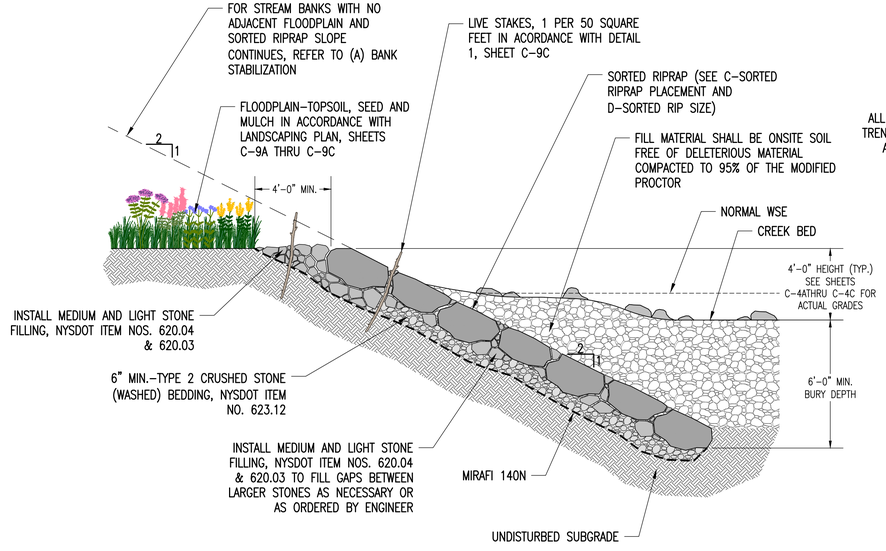
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DESIGNED BY: JPB	DATE: 07.09.2025
DRAWN BY: JPB/JGA	DWG. NO: C-9C
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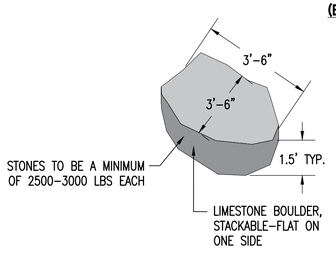
(A) BANK STABILIZATION

SCALE: 1"=1'–0"



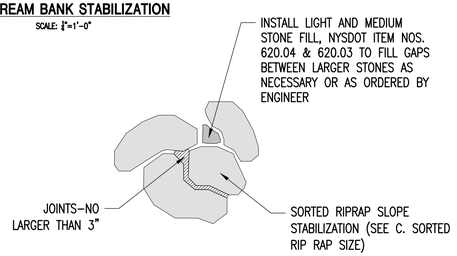
(B) STREAM BANK STABILIZATION

SCALE: 1"=1'–0"



(C) SORTED RIPRAP SIZE

SCALE: NTS

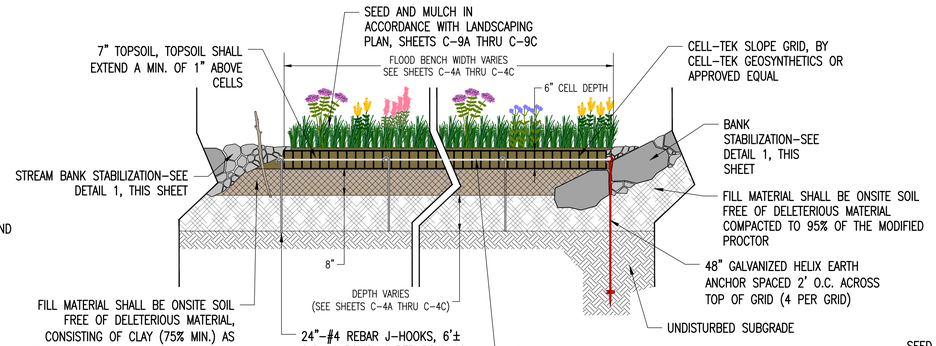


(D) SORTED RIPRAP PLACEMENT

SCALE: NTS

1 DETAIL: SORTED RIP RAP BANK STABILIZATION

SCALE: AS SHOWN

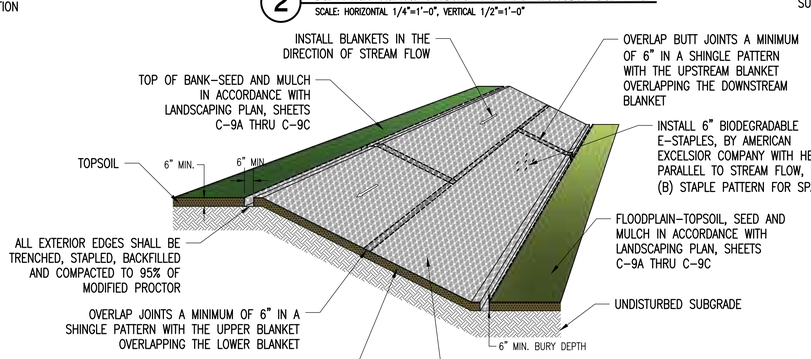


NOTES:

1. CELL–TEK SLOPE GRID TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. 48– ¼" GALVANIZED U–BOLTS (NOT SHOWN) WITH BE REQUIRED PER 8' MAT–SEE MANUFACTURER'S INSTALLATION GUIDELINES.
3. CELL–TEK SLOPE GRID TO BE ANCHORED USING THE CABLE METHOD AS SHOWN AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION GUIDELINES

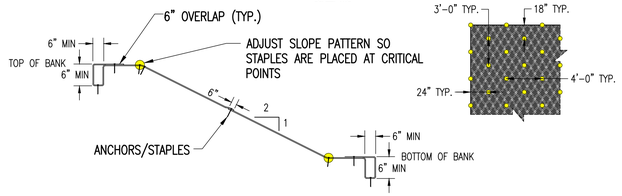
2 DETAIL: REINFORCED FLOOD BENCH DETAIL

SCALE: HORIZONTAL 1/4"=1'–0", VERTICAL 1/2"=1'–0"



(A) PERSPECTIVE

SCALE: NTS

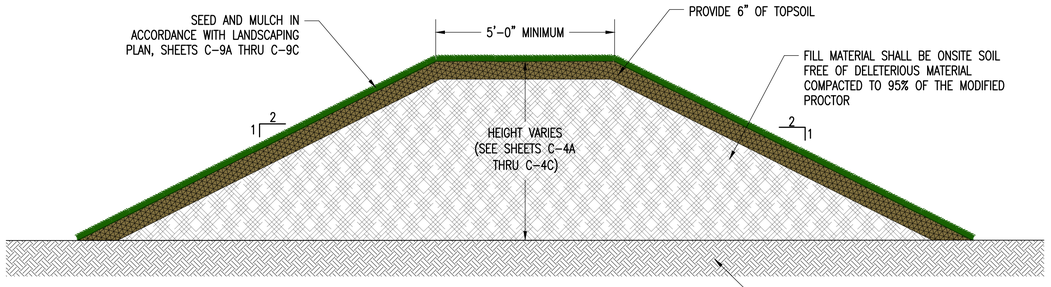


(B) STAPLE PATTERN

SCALE: NTS

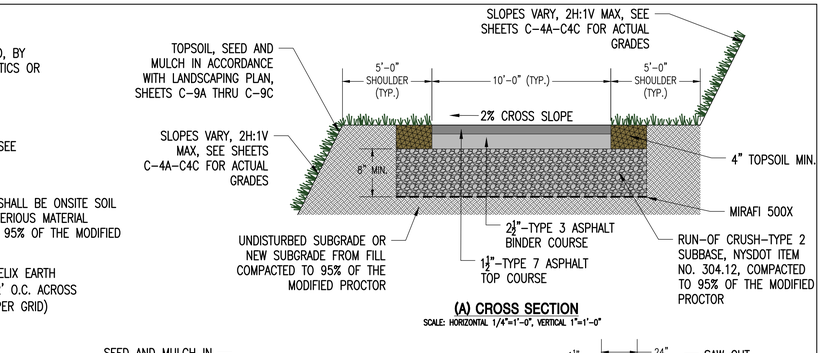
3 DETAIL: GEOTEXTILE SLOPE STABILIZATION

SCALE: AS SHOWN



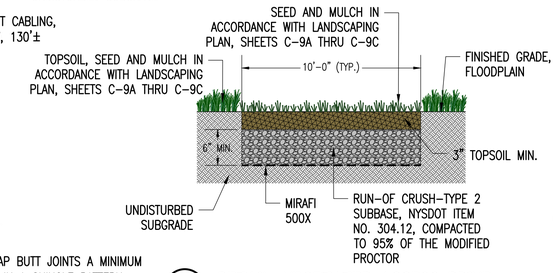
4 DETAIL: RELOCATED BERM

SCALE: 1/2"=1'



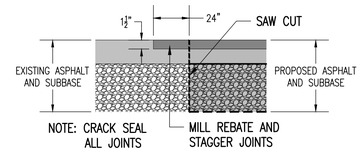
(A) CROSS SECTION

SCALE: HORIZONTAL 1/4"=1'–0", VERTICAL 1"=1'–0"



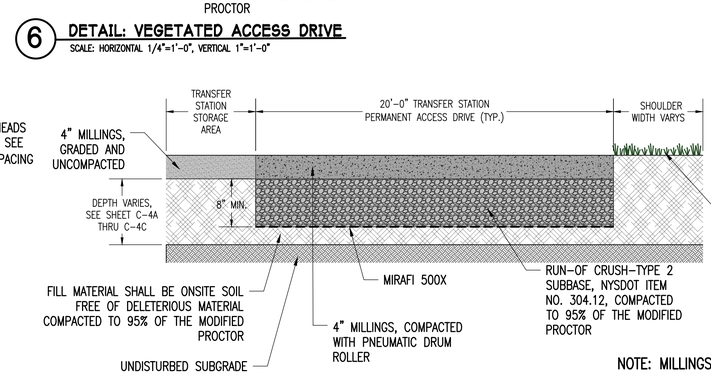
5 DETAIL: ASPHALT TRAIL

SCALE: AS NOTED



(B) CONNECT TO EXISTING ASPHALT

SCALE: HORIZONTAL 1/4"=1'–0", VERTICAL 1"=1'–0"



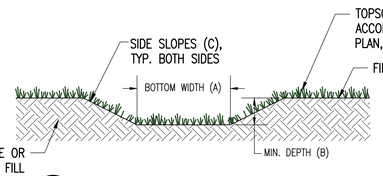
6 DETAIL: VEGETATED ACCESS DRIVE

SCALE: HORIZONTAL 1/4"=1'–0", VERTICAL 1"=1'–0"

7 DETAIL: TRANSFER STATION

SCALE: HORIZONTAL 1/4"=1'–0", VERTICAL 1"=1'–0"

NOTE: MILLINGS TO BE PROVIDED BY TOWN OF NEW HARTFORD



8 DETAIL: VEGETATED DRAINAGE SWALE

SCALE: 1/4"=1'–0"

VEGETATED SWALES TABLE

SWALE	(A) BOTTOM WIDTH	(B) DEPTH	(C) SIDE SLOPES
A	5'–0"	*12" MIN.	2H:1V
B	4'–0"	*12" MIN.	2H:1V
C	5'–0"	*12" MIN.	3H:1V

*SEE GRADING AND DRAINAGE PLANS C–4A THRU C–4C FOR ACTUAL DEPTHS

NOT FOR CONSTRUCTION

THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISION UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

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NO.	DATE	REVISION	BY

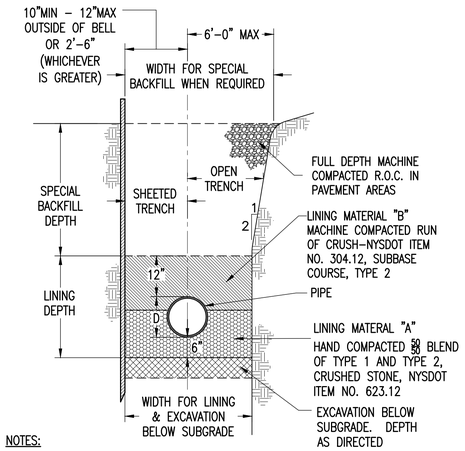
TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

EARTHWORK AND BANK STABILIZATION DETAILS

SCALE:	AS NOTED
DESIGNED BY:	JPB/JD
DRAWN BY:	JGA
CHECKED BY:	JPB/JD
FILE NO.:	1209.020
DATE:	09.06.2023
DWG. NO:	C-10

Q:\CADD Files\PROJECTS\Town of New Hartford - 1209\012 - Rayhill Trail improvements\Working Drawings\Contract Drawings\DETAILS.dwg, 7/24/2025 10:37:22 AM



NOTES:

1. THIS DETAIL APPLIES TO DRAINAGE ONLY.
2. ALL BACKFILL MATERIAL REQUIRED WILL BE AS FOLLOWS:

A. UNDER PAVEMENTS–SPECIAL BACKFILL SHALL BE RUN OF CRUSH NYSDOT ITEM NO. 304.12, SUBBASE COURSE, TYPE 2 AS SPECIFED IN TABLE 733–04A, OF THE LATEST NYSDOT STANDARD SPECIFICATIONS.

B. UNDER LAWNS AND OTHER IMPROVED AREAS–SPECIAL BACKFILL SHALL BE GENERAL FILL, INERT MATERIAL FREE FROM ORGANIC MATTER, RUBBISH, DEBRIS, AND ROCKS GREATER THAN 6" IN DIAMETER.

C. LINING MATERIAL "A"–6" BELOW PIPE TO BOTTOM ¾ OF PIPE, SHALL BE CRUSHED STONE, NYSDOT ITEM NO. 623.12, NYSDOT MATERIAL DESIGNATION 703–0201 CRUSHED BEDROCK, 50 BLEND OF TYPE 1 AND 2 AS SPECIFIED IN TABLE 703–4 OF THE LATEST NYSDOT STANDARD SPECIFICATIONS.

D. LINING MATERIAL "B"–TOP ¼ OF PIPE AND 12" ABOVE PIPE, SHALL BE RUN OF CRUSH NYSDOT ITEM NO. 304.12, SUBBASE COURSE, TYPE 2 AS SPECIFED IN TABLE 733–04A, OF THE LATEST NYSDOT STANDARD SPECIFICATIONS.

E. EXCAVATION BELOW SUBGRADE–BACKFILL SHALL BE CRUSHED STONE, NYSDOT ITEM NO. 623.12, NYSDOT MATERIAL DESIGNATION 703–0201 CRUSHED BEDROCK, 50 BLEND OF TYPE 1 AND 2 AS SPECIFIED IN TABLE 703–4 OF THE LATEST NYSDOT STANDARD SPECIFICATIONS.

3. MINIMUM COMPACTION REQUIREMENTS WILL BE AS FOLLOWS:

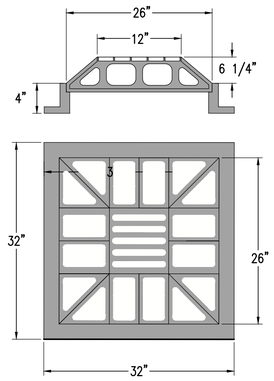
A. FILL UNDER PIPELINES AND PIPE BEDDING–8" (MAX.) LIFTS COMPACTED TO 95% IN ACCORDANCE WITH ASTM D1557.

B. PIPE SIDE FILLS AND TOP 4' OF BACKFILL UNDER PAVEMENTS–8" (MAX.) LIFTS COMPACTED TO 93% IN ACCORDANCE WITH ASTM D1557.

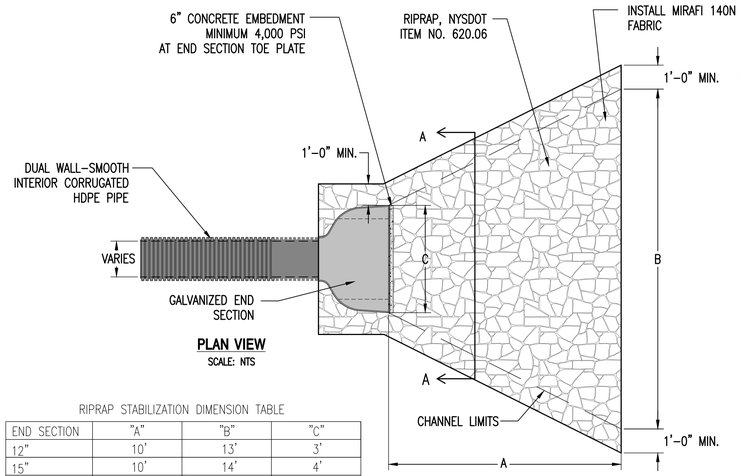
C. BACKFILL BELOW 4' UNDER PAVEMENT–18" (MAX.) LIFTS COMPACTED TO 90% IN ACCORDANCE WITH ASTM D1557.

D. BACKFILL UNDER LAWNS, GARDENS, AND CULTIVATED FIELDS–24" (MAX.) LIFTS COMPACTED TO 90% IN ACCORDANCE WITH ASTM D698.

1 DETAIL: TRENCH AND LINING
NOT TO SCALE



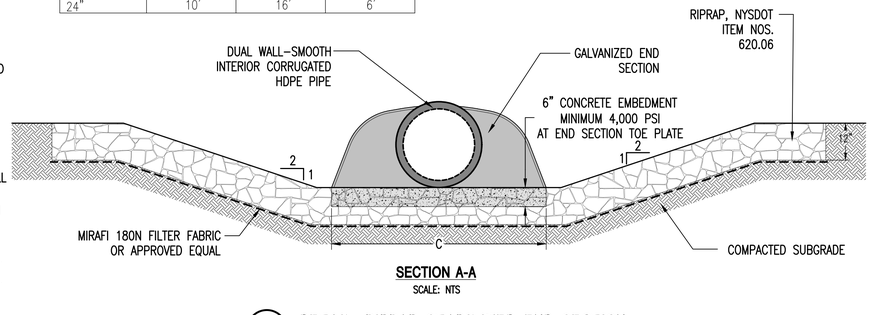
2 DETAIL: EJ 6626 BEEHIVE GRATE
SCALE 1"=1'-0"



PLAN VIEW
SCALE: NTS

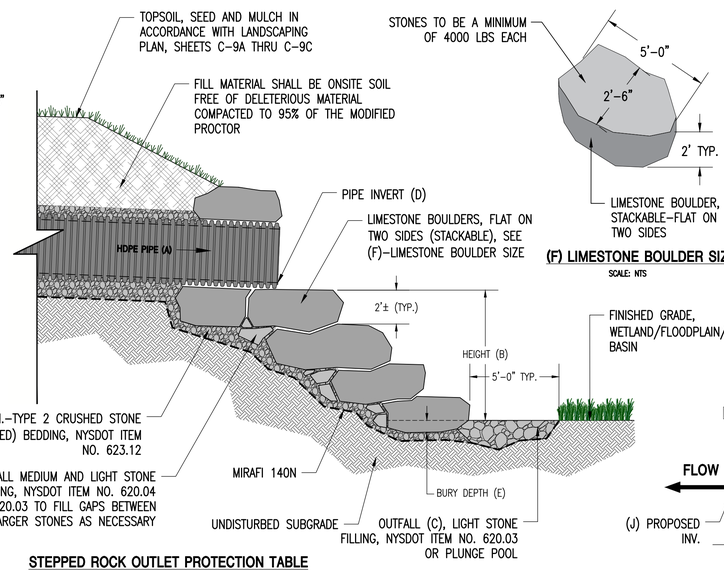
RIPRAP STABILIZATION DIMENSION TABLE

END SECTION	"A"	"B"	"C"
12"	10'	13'	3'
15"	10'	14'	4'
18"	10'	15'	5'
24"	10'	16'	6'



SECTION A-A
SCALE: NTS

3 DETAIL: RIPRAP STABILIZED END SECTION
SCALE: AS SHOWN

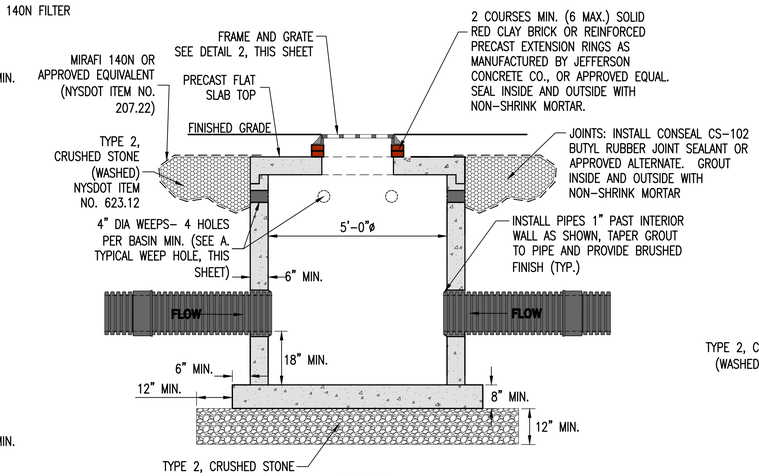


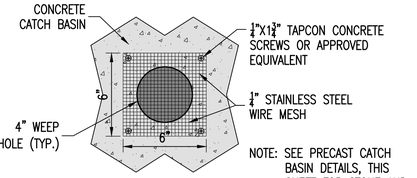
STEPPED ROCK OUTLET PROTECTION TABLE

STEPPED ROCK SPILLWAY	(A) PIPE SIZE	(B) HEIGHT	(C) OUTFALL	(D) PIPE INVERT	(E) BURY DEPTH
A	30"	10'	PLUNGE POOL	483.55	48"
B	18"	2'	LIGHT STONE FILL	481.00	12"
C	18"	2'	LIGHT STONE FILL	481.00	12"

4 DETAIL: STEPPED ROCK OUTLET PROTECTION
SCALE: 1/4"=1'-0"

(F) LIMESTONE BOULDER SIZE
SCALE: NTS



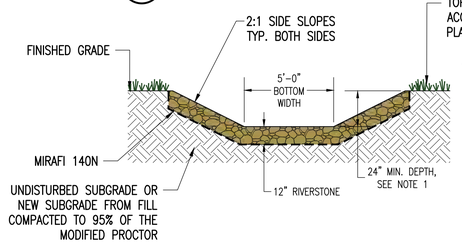


(A) TYPICAL WEEP HOLE
SCALE: ¼" =1'-0"

NOTES:

1. DESIGNED IN ACCORDANCE TO ASTM C478 WITH AASHTO HS–20 LOADING.
2. JOINTS SEALED IN ACCORDANCE WITH ASTM C990.
3. MANHOLE STEPS: ASTM C478 (IF REQUIRED).
4. REINFORCEMENT TO ASTM A615, A497, GRADE 60.
5. CONCRETE TO BE A MINIMUM 5000 PSI AT 28 DAYS, AIR ENTRAINED 5%–8%.
6. INSTALL STEPS IN STRUCTURES WITH A DEPTH GREATER THAN 4', AND IN ACCORDANCE WITH 604–3.06 OF THE NYSDOT STANDARD SPECIFICATIONS.

5 DETAIL: 5' DIA. PRECAST CONCRETE CATCH BASIN
SCALE: 1/2"=1'-0"

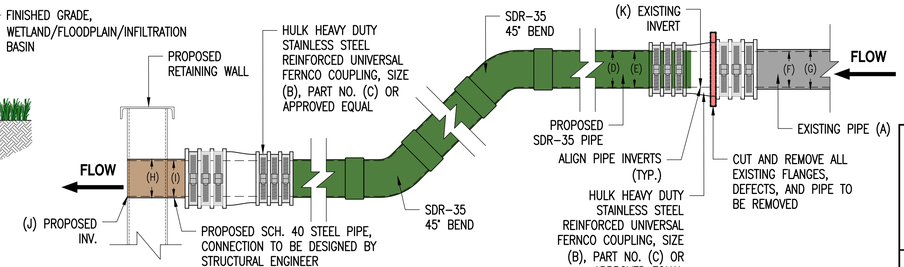


NOTES:

1. SEE GRADING AND DRAINAGE PLANS C–4A FOR ACTUAL DEPTHS.
2. RIVER STONE TO BE A WASHED RIVER STONE MIX AT THE FOLLOWING GRADATIONS:

SCREEN/STONE SIZE	MIX PERCENTAGE
2"	25%
3"	25%
4"	40%
6"	10%

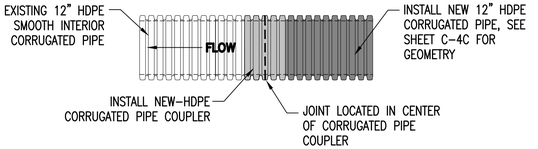
6 DETAIL: RIVERSTONE SWALE
SCALE: 1/4"=1'-0"



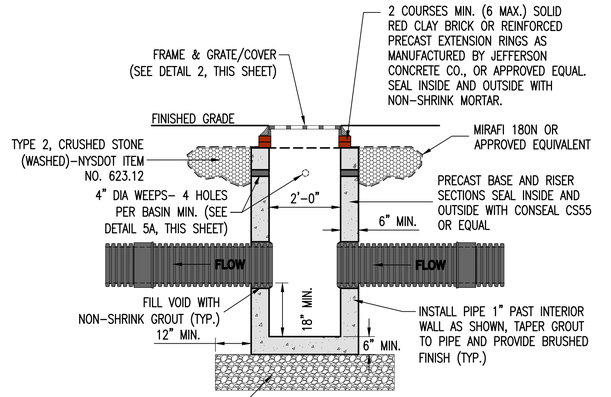
PIPE CONNECTIONS TABLE

CONNECTION	(B) EXISTING PIPE TYPE	(B) FERNCO SIZE (IN)	(C) PART NO.	(D) PROPOSED O.D. (IN)	(E) PROPOSED I.D. (IN)	(F) EXISTING I.D. (IN)	(G) EXISTING O.D. (IN)	(H) PROPOSED O.D. (IN)	(I) PROPOSED I.D. (IN)	(J) PROPOSED INV (FT)	(K) EXISTING INV (IN)
A	DUTILE IRON	12"	HULK12	13.2"	12"	12"	12.5"	12.8"	12"	461.0'	470.8'±
B	CLAY	12"	HULK12	13.2"	12"	12"	14.5"	12.8"	12"	461.0'	462.5'±
C	STEEL	4"	HULK4	4.2"	4"	4"	4.5"	4.5"	4"	461.0'	464.0'±

7 DETAIL: MISCELLANEOUS PIPE CONNECTIONS
SCALE: 1/2"=1'-0"



8 DETAIL: HDPE PIPE CONNECTION
NOT TO SCALE



NOTES:

1. CONCRETE TO BE MIN. 5000 PSI AT 28 DAYS, AIR ENTRAINED 5%–8%.
2. REINFORCEMENT PER NYSDOT STANDARDS, SHEETS 604–5 TO 604–8 (HS–20 LOADING)
3. REINFORCEMENT ASTM A 615
4. JOINTS: INSTALL CONSEAL CS–102 BUTYL RUBBER JOINT SEALANT OR APPROVED EQUIVALENT. GROUT INSIDE AND OUTSIDE WITH NON–SHRINK MORTAR

9 DETAIL: 2'X2' PRECAST CONCRETE CATCH BASIN
SCALE 1/2"=1'-0"

STORM SEWER NOTES:

1. ALL STORM SEWER PIPING TO BE SMOOTH INTERIOR–CORRUGATED HIGH DENSITY POLYETHYLENE IN ACCORDANCE WITH SECTION 706–12 IN THE N.Y.S.D.O.T. STANDARD SPECIFICATIONS AND AASHTO–M252 & M294. CORRUGATED–INTERIOR H.D.P.E. TO BE USED WHERE INDICATED.
2. SPECIAL BACKFILL TO BE R.O.C. MATERIAL (N.Y.S.D.O.T. ITEM 733.0402), MEETING THE FOLLOWING GRADATIONS:

SIEVE SIZE	% PASSING BY WEIGHT
2"	100
1/4"	25–60
#40	5–40
#200	0–10

3. STRUCTURE BASE AND LINING MATERIAL TO BE CRUSHED STONE SUBBASE, N.Y.S.D.O.T. ITEM NO. 623.12, TYPE 2 AS INDICATED IN THE NYSDOT STANDARD SPECIFICATIONS.
4. ALL STORM SEWER TRENCHES CROSSING ANY PAVEMENT TO BE BACKFILLED FULL–DEPTH RUN OF CRUSH SUBBASE COURSE NYSDOT ITEM NO. 304.12, SUBBASE COURSE, TYPE 2 AS SPECIFED IN TABLE 733–04A, OF THE NYSDOT STANDARD SPECIFICATIONS.
5. "WASHED" INDICATES A MATERIAL THAT HAS BEEN RINSED/CLEANED OF STONES PASSING A NO. 200 SCREEN, AND ANY OTHER DELETERIOUS MATERIAL PRESENT.

NOT FOR CONSTRUCTION

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NO.	DATE	REVISION	BY

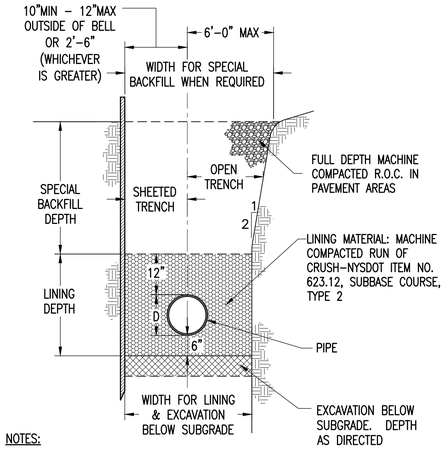
TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

DRAINAGE DETAILS

SCALE: AS NOTED	FILE NO.: 1209.020
DESIGNED BY: JPB/JD	DATE: 09.06.2023
DRAWN BY: JGA	DWG. NO: C-11
CHECKED BY: JPB/JD	

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NOTES:

1. THIS DETAIL APPLIES TO SANITARY SEWERS ONLY.
2. ALL BACKFILL MATERIAL REQUIRED WILL BE AS FOLLOWS:

A. UNDER PAVEMENTS–SPECIAL BACKFILL SHALL BE RUN OF CRUSH NYSDOT ITEM NO. 304.12, SUBBASE COURSE, TYPE 2 AS SPECIFED IN TABLE 733–04A, OF THE LATEST NYSDOT STANDARD SPECIFICATIONS.

B. UNDER LAWNS AND OTHER IMPROVED AREAS–SPECIAL BACKFILL SHALL BE GENERAL FILL, INERT MATERIAL FREE FROM ORGANIC MATTER, RUBBISH, DEBRIS, AND ROCKS GREATER THAN 6" IN DIAMETER.

C. LINING MATERIAL "B"–6" BELOW THE PIPE TO 12" ABOVE PIPE, SHALL BE RUN OF CRUSH NYSDOT ITEM NO. 304.12, SUBBASE COURSE, TYPE 2 AS SPECIFED IN TABLE 733–04A, OF THE LATEST NYSDOT STANDARD SPECIFICATIONS.

D. EXCAVATION BELOW SUBGRADE–BACKFILL SHALL BE RUN OF CRUSH NYSDOT ITEM NO. 304.12, SUBBASE COURSE, TYPE 2 AS SPECIFED IN TABLE 733–04A, OF THE LATEST NYSDOT STANDARD SPECIFICATIONS.

3. MINIMUM COMPACTION REQUIREMENTS WILL BE AS FOLLOWS:

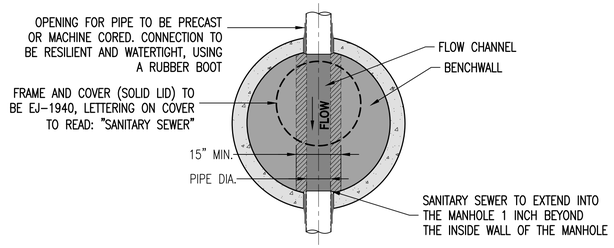
A. FILL UNDER PIPELINES AND PIPE BEDDING–8" (MAX.) LIFTS COMPACTED TO 95% IN ACCORDANCE WITH ASTM D1557.

B. PIPE SIDE FILLS AND TOP 4' OF BACKFILL UNDER PAVEMENTS–8" (MAX.) LIFTS COMPACTED TO 93% IN ACCORDANCE WITH ASTM D1557.

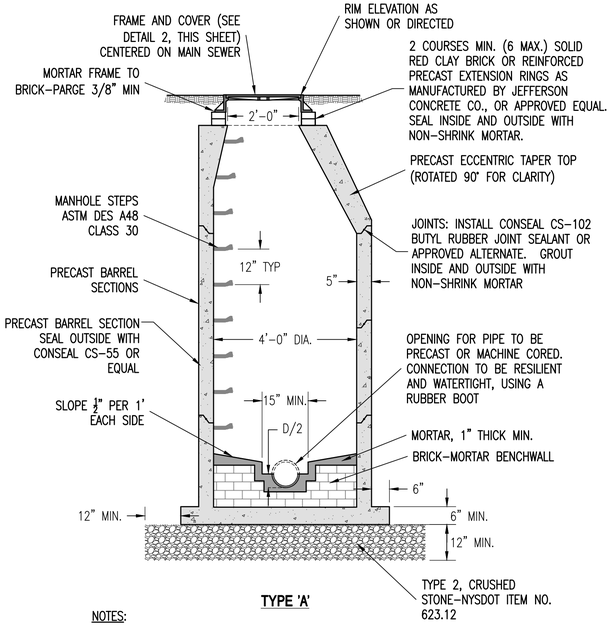
C. BACKFILL BELOW 4' UNDER PAVEMENT–18" (MAX.) LIFTS COMPACTED TO 90% IN ACCORDANCE WITH ASTM D1557.

D. BACKFILL UNDER LAWNS, GARDENS, AND CULTIVATED FIELDS–24" (MAX.) LIFTS COMPACTED TO 90% IN ACCORDANCE WITH ASTM D698.

1 DETAIL: TRENCH AND LINING
NOT TO SCALE



PLAN SECTION

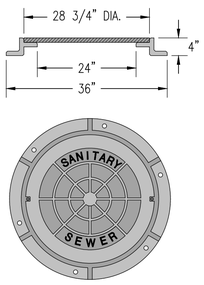


TYPE 'A'

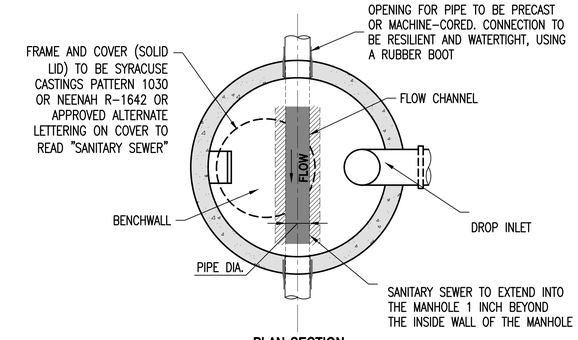
NOTES:

1. DESIGNED IN ACCORDANCE TO ASTM C478 WITH AASHTO HS–20 LOADING.
2. JOINTS SEALED IN ACCORDANCE WITH ASTM C990.
3. MANHOLE STEPS: ASTM C478.
4. REINFORCEMENT TO ASTM A615, A497, GRADE 60.
5. CONCRETE TO BE A MINIMUM 5000 PSI AT 28 DAYS, AIR ENTRAINED 5%–8%.
6. FOR SEWERS 8" THRU 12" IN DIAMETER.

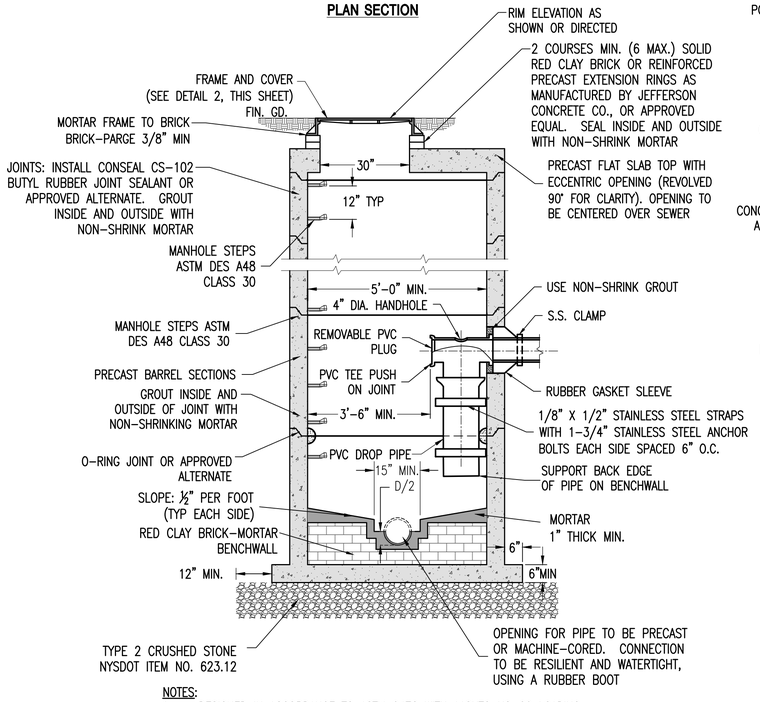
3 DETAIL: 4' DIA. PRECAST CONCRETE MANHOLE-TYPE"A"
SCALE: 1/2"=1'–0"



2 DETAIL: EJ-1940 FRAME AND COVER
SCALE: 3/4"=1'–0"



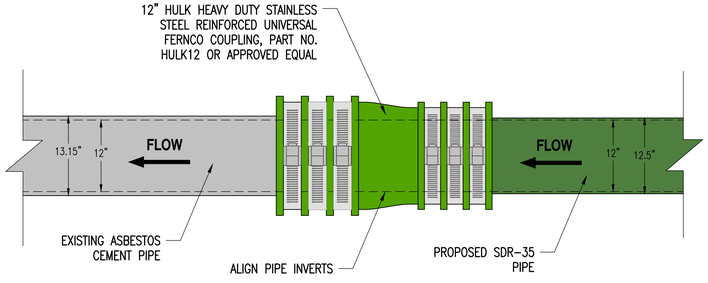
PLAN SECTION



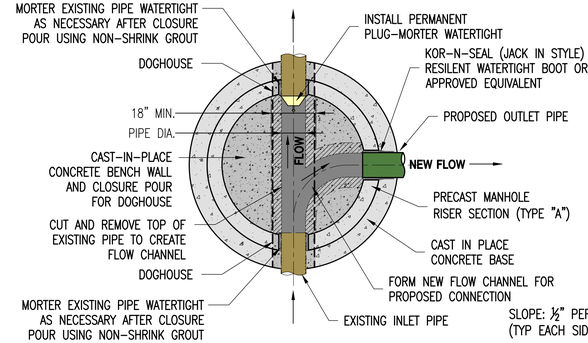
NOTES:

1. DESIGNED IN ACCORDANCE TO ASTM C478 WITH AASHTO HS–20 LOADING.
2. JOINTS SEALED IN ACCORDANCE WITH ASTM C990.
3. MANHOLE STEPS: ASTM C478.
4. REINFORCEMENT TO ASTM A615, A497, GRADE 60.
5. CONCRETE TO BE A MINIMUM 5000 PSI AT 28 DAYS, AIR ENTRAINED 5%–8%.
6. FOR SEWERS 8" THRU 12" IN DIAMETER.

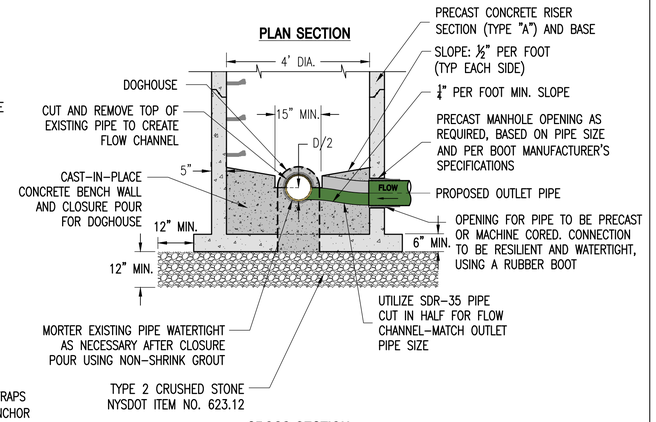
4 DETAIL: STANDARD PRE-CAST SANITARY MANHOLE
NOT TO SCALE



6 DETAIL: SANITARY SEWER PIPE CONNECTION
SCALE: 1"=1'–0"



PLAN SECTION



CROSS SECTION

NOTES:

1. CONSTRUCT NEW MANHOLE OVER EXISTING SANITARY SEWER LINE WITHOUT DISRUPTION OF CURRENT SERVICE.
2. DESIGNED IN ACCORDANCE TO ASTM C478 WITH AASHTO HS–20 LOADING.
3. JOINTS SEALED IN ACCORDANCE WITH ASTM C990.
4. MANHOLE STEPS: ASTM C478.
5. REINFORCEMENT TO ASTM A615, A497, GRADE 60.
6. CONCRETE TO BE A MINIMUM 5000 PSI AT 28 DAYS, AIR ENTRAINED 5%–8%.
7. FOR SEWERS 8" THRU 12" IN DIAMETER.

5 DETAIL: PRECAST DOG HOUSE MANHOLE CONNECTION
SCALE: 1/2"=1'–0"

SANITARY SEWER NOTES:

1. SANITARY SEWER MAIN PIPE SHALL BE SDR–35 PVC WITH RUBBER RING GASKETS IN ACCORDANCE WITH ASTM D–3034.
2. STANDARD LEAKAGE AND DEFLECTION TESTS IN ACCORDANCE WITH ONEIDA COUNTY STANDARDS ARE REQUIRED ON ALL SEWER MAINS.
3. ALL TESTING SHALL BE CONDUCTED AFTER THE INSTALLATION OF THE SEWER MAINS.
4. CONTRACTOR SHALL RECORD AND PROVIDE ENGINEER WITH AS BUILT LOCATIONS AND DEPTHS OF ALL SANITARY SEWER LATERAL ENDS.
5. EXISTING 12" SEWER MAINS ARE ASBESTOS CEMENT. ALL CUTTING, REMOVAL AND DISPOSAL WILL REQUIRE LICENSED AND CERTIFIED CONTRACTORS IN ASBESTOS REMOVAL AND ABATEMENT WHO HAVE RECEIVED THE PROPER TRAINING FROM NYS DEPARTMENT OF HEALTH ACCREDITED PROVIDERS, NYS DEPARTMENT OF LABOR AND NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION FOLLOWING SPECIFIC PROCEDURES AND ENGINEERING CONTROLS TO PREVENT THE SPREAD OF ASBESTOS.

NOT FOR CONSTRUCTION

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DUNN & SGROMO ENGINEERS
5800 HERITAGE LANDING DRIVE
EAST SYRACUSE, NEW YORK 13057
T: (315)449-4940 F: (315)449-4941

STATE OF NEW YORK · GREGORY SGROMO · LICENSED PROFESSIONAL ENGINEER · 073282

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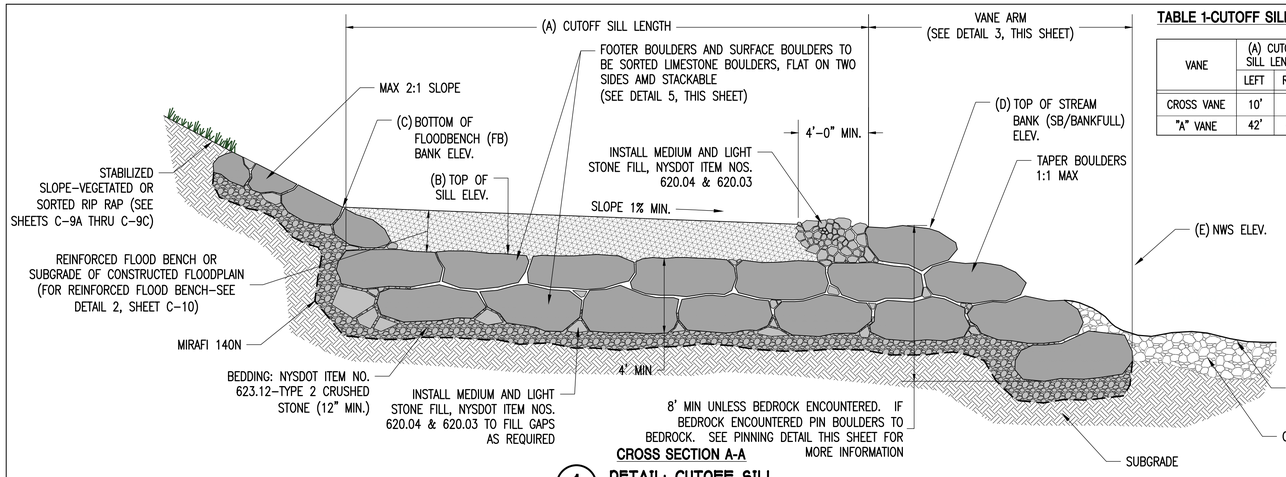
NO.	DATE	REVISION	BY

TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK
RAYHILL MEMORIAL TRAIL REMEDIATION

SANITARY
SEWER DETAILS

SCALE: AS NOTED	FILE NO.: 1209.020
DESIGNED BY: JPB/JD	DATE: 09.06.2023
DRAWN BY: JGA	DWG. NO: C-12
CHECKED BY: JPB/JD	

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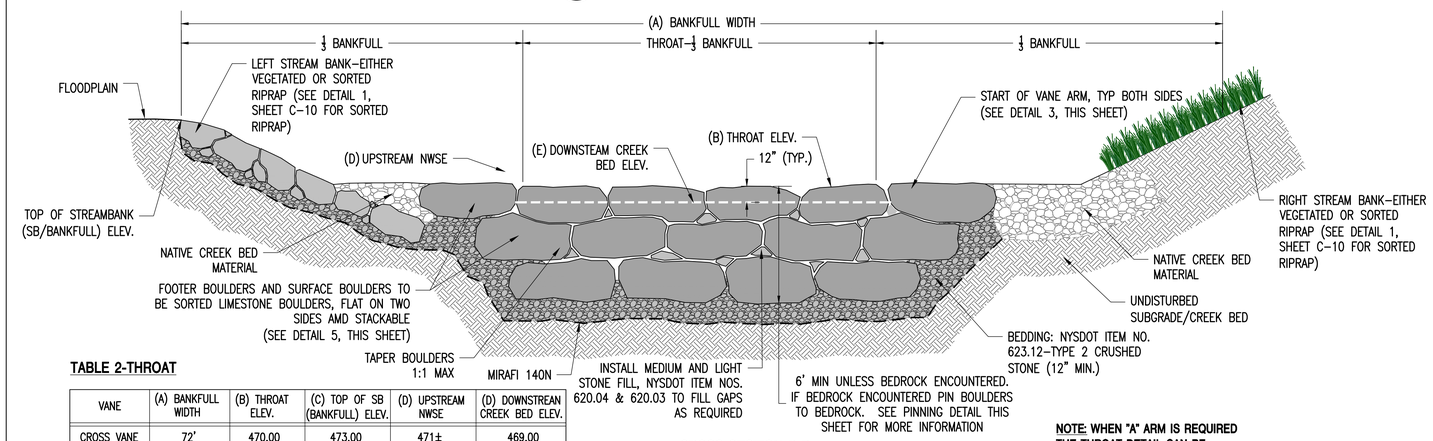
CROSS SECTION A-A

1 DETAIL: CUTOFF SILL

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

TABLE 1-CUTOFF SILL

VANE	(A) CUTOFF SILL LENGTH		(B) TOP OF SILL ELEV.		(C) BOTTOM OF FB BANK ELEV.		(D) TOP OF SB (BANKFULL) ELEV.		(E) NORMAL WATER SURFACE ELEV.	
	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
CROSS VANE	10'	15'	470.00	470.00	472.00	472.00	472.00	472.00	470±	470±
"A" VANE	42'	42'	467.50	467.50	472.00	472.00	469.50	469.50	465±	465±



CROSS SECTION B-B

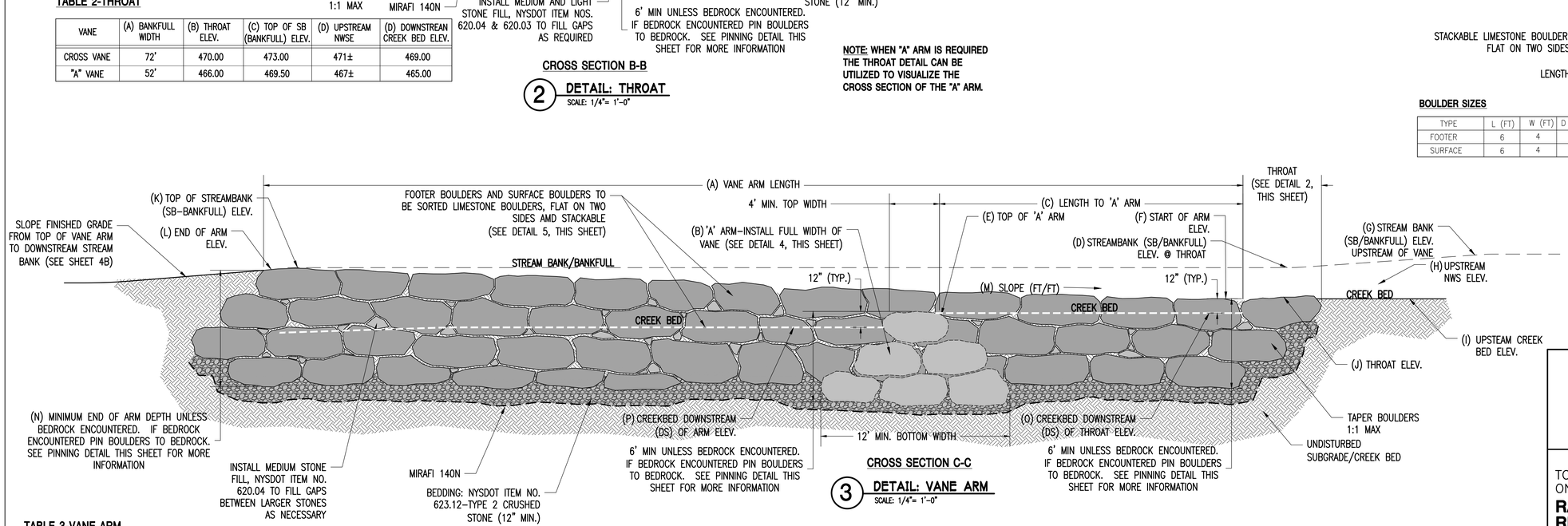
TABLE 2-THROAT

VANE	(A) BANKFULL WIDTH	(B) THROAT ELEV.	(C) TOP OF SB (BANKFULL) ELEV.	(D) UPSTREAM NWSE	(D) DOWNSTREAN CREEK BED ELEV.
CROSS VANE	72'	470.00	473.00	471±	469.00
"A" VANE	52'	466.00	469.50	467±	465.00

2 DETAIL: THROAT

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

NOTE: WHEN "A" ARM IS REQUIRED THE THROAT DETAIL CAN BE UTILIZED TO VISUALIZE THE CROSS SECTION OF THE "A" ARM.



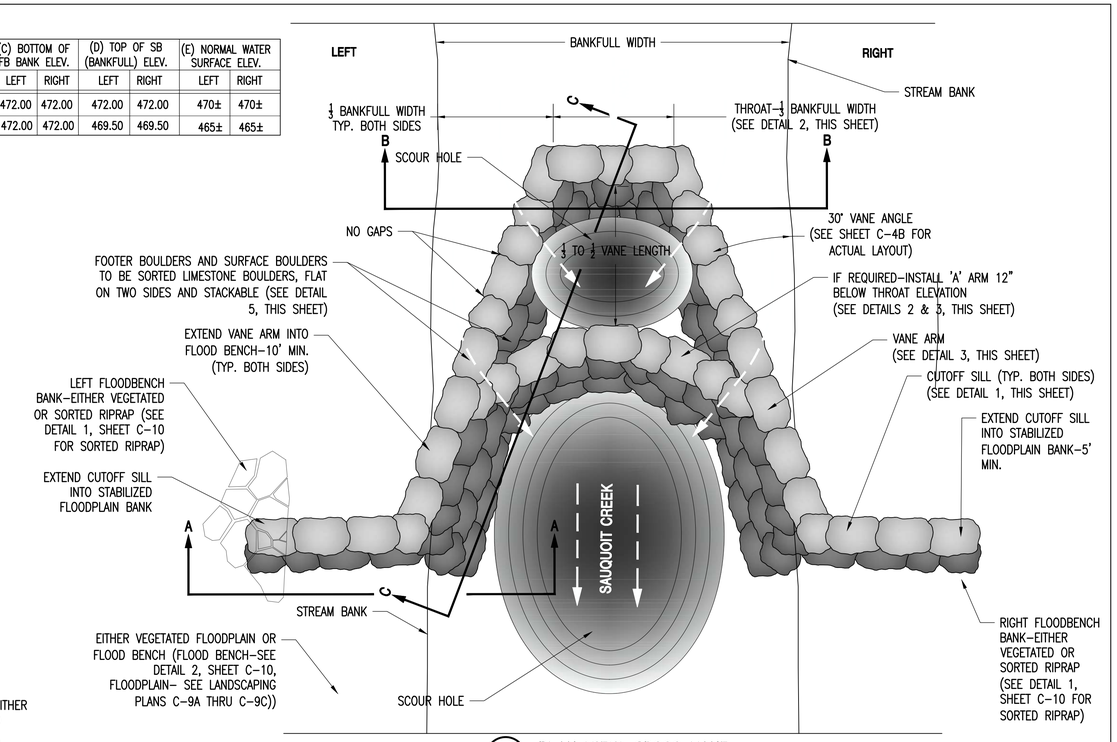
CROSS SECTION C-C

3 DETAIL: VANE ARM

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

TABLE 3-VANE ARM

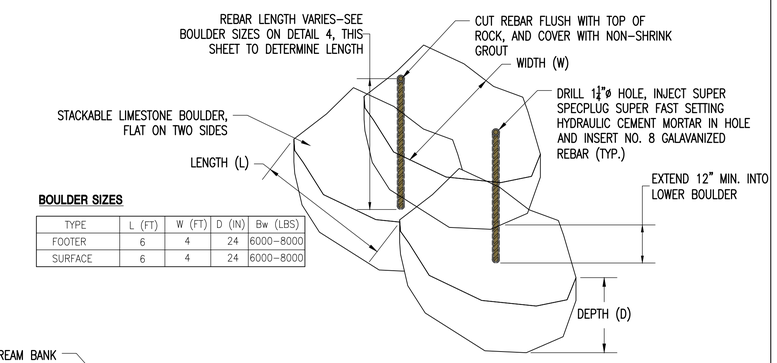
VANE	(A) VANE ARM LENGTH		(B) INSTALL 'A' ARM	(C) LENGTH TO 'A' ARM	(D) SB (BANKFULL) ELEV. @ THROAT		(E) TOP OF 'A' ARM		(F) START OF ARM ELEV.		(G) SB (BANKFULL) ELEV. UPSTREAM OF VANE		(H) UPSTREAM NWS ELEV.		(I) UPSTREAM CREEK BED ELEV.		(J) THROAT ELEV.		(K) SB (BANKFULL) ELEV. @ END OF VANE		(L) END OF ARM ELEV.		(M) SLOPE		(N) END OF ARM DEPTH		(O) CREEKBED DS OF THROAT ELEV.	(P) CREEKBED DS OF ARM ELEV.
	LEFT	RIGHT			LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT		
CROSS VANE	45'	40'	NO	NA	473.00	473.00	NA	NA	470.00	470.00	473.50	473.50	471±	471±	469.90	469.90	470.00	470.00	472.00	472.00	472.00	472.00	.045	.050	8.0'	8.0'	469.00	NA
"A" VANE	62'	60'	YES	25'-0"	469.50	469.50	465.00	465.00	466.00	466.00	470.00	470.00	467±	467±	465.90	465.90	466.00	466.00	469.50	469.50	469.50	469.50	.057	.058	9.5'	9.5'	465.00	464.00



4 PLAN VIEW: CROSS VANE

SCALE: 1"=10'

NOTE: TYPICAL PLAN VIEW- SEE SHEET C-4B FOR ACTUAL LAYOUT, SITE GRADING, AND STABILIZATION LIMITS



BOULDER SIZES

TYPE	L (FT)	W (FT)	D (IN)	Bw (LBS)
FOOTER	6	4	24	6000-8000
SURFACE	6	4	24	6000-8000

5 DETAIL: BOULDER AND PINNING

SCALE: NTS

NOT FOR CONSTRUCTION

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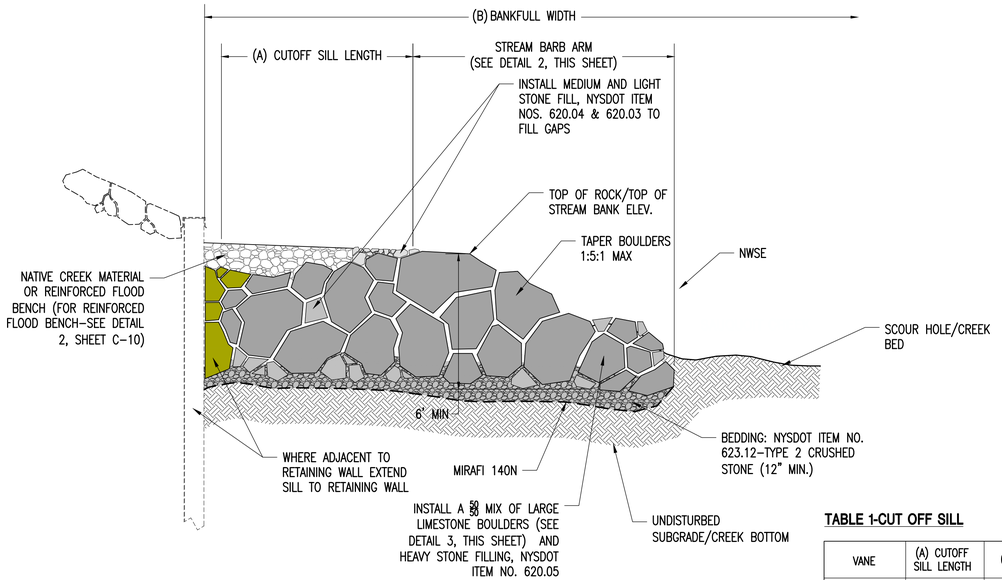
TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

CROSS VANE DETAILS

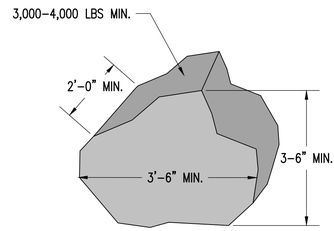
SCALE:	AS NOTED
FILE NO.:	1209.013
DESIGNED BY:	JPB
DATE:	06.19.2024
DRAWN BY:	JPB
DWG. NO:	C-13
CHECKED BY:	JD/GS

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CROSS SECTION A-A

1 DETAIL: CUTOFF SILL
SCALE: 1/4"= 1'-0"

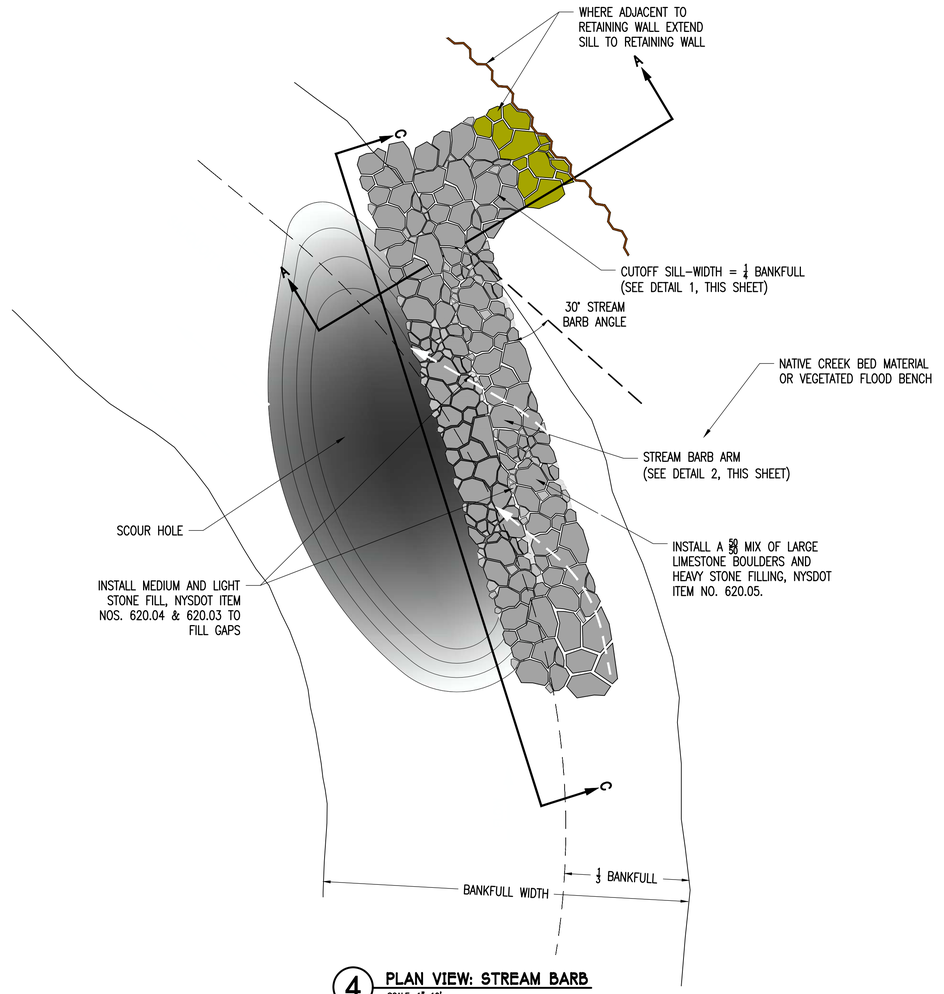


3 DETAIL: BOULDER SIZE
SCALE: NTS

TABLE 1-CUT OFF SILL

VANE	(A) CUTOFF SILL LENGTH	(B) BANKFULL WIDTH	(C) TOP OF ROCK/SB	(D) NWSE
ROCK VANE "A"	13'	52'	470.50	468.0±
ROCK VANE "B"	13'	52'	470.00	467.5±
ROCK VANE "C"	*16'	65'	462.00	460.0±
ROCK VANE "D"	*16'	65'	460.00	458.0±

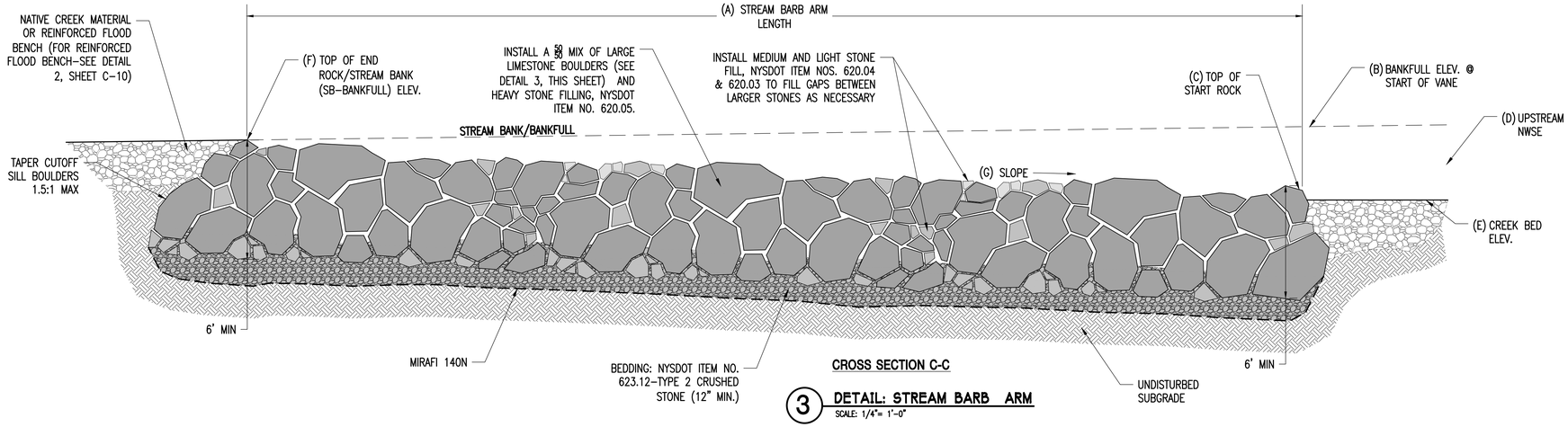
* EXTEND TO RETAINING WALL IF NECESSARY



4 PLAN VIEW: STREAM BARB
SCALE: 1"=10'

TABLE 2-STREAM BARB ARM

VANE	(A) STREAM BARB ARM LENGTH	(B) SB (BANKFULL) ELEV. @ START OF VANE	(C) START OF ARM ELEV.	(D) UPSTREAM NWS ELEV.	(E) UPSTREAM CREEK BED ELEV.	(F) SB (BANKFULL) ELEV. @ END OF VANE	(G) SLOPE
ROCK VANE "A"	60'	471.00	467.00	468.0±	466.5±	470.50	.058
ROCK VANE "B"	60'	470.20	466.50	467.5±	466.0±	470.00	.058
ROCK VANE "C"	60'	462.50	459.00	460.0±	458.7±	462.00	.050
ROCK VANE "D"	60'	461.00	457.50	458.5±	457.2±	460.00	.042



CROSS SECTION C-C

3 DETAIL: STREAM BARB ARM
SCALE: 1/4"= 1'-0"

NOTE: TYPICAL PLAN VIEW- SEE SHEETS C-4B AND 4C FOR ACTUAL LAYOUT, SITE GRADING, AND STABILIZATION LIMITS

NOT FOR CONSTRUCTION

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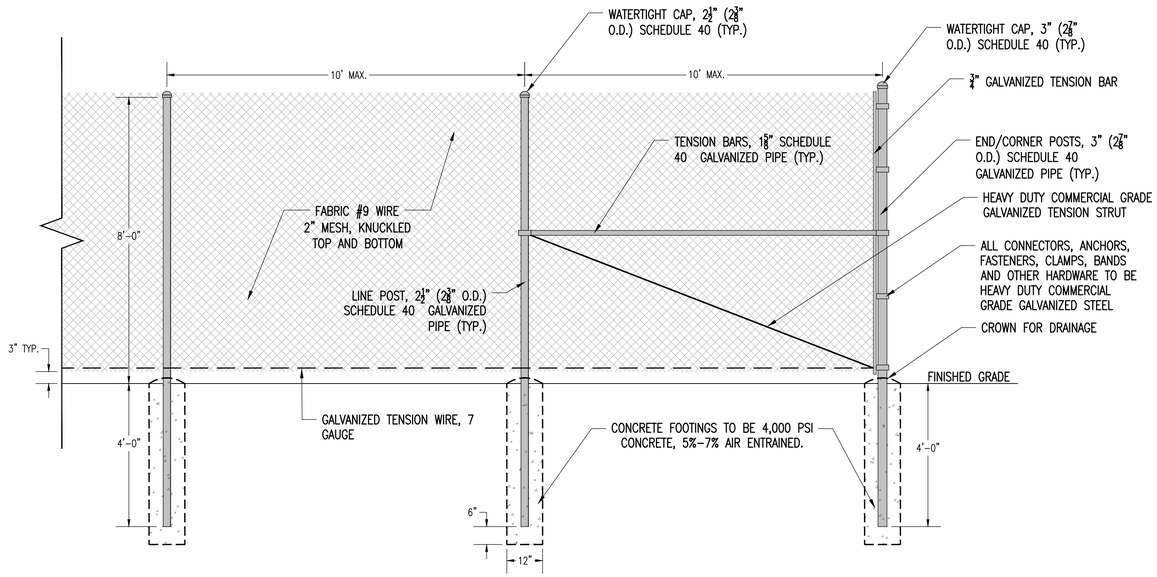
TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

STREAM BARB DETAILS

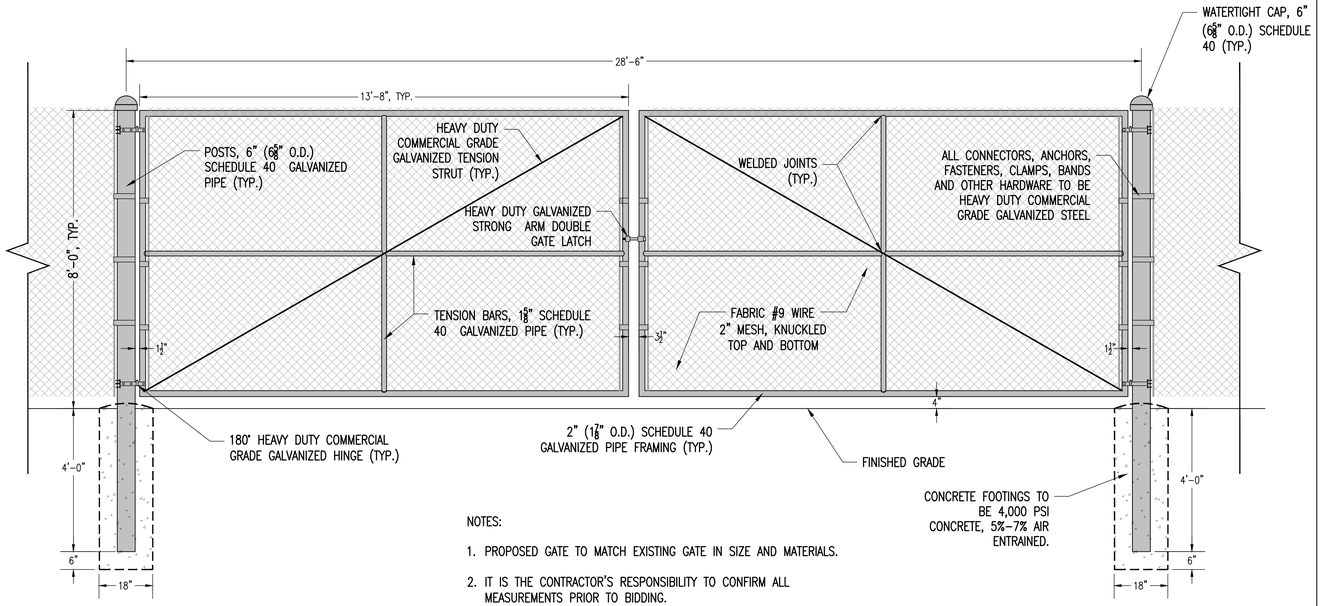
SCALE:	AS NOTED
DESIGNED BY:	JPB
DRAWN BY:	JPB
CHECKED BY:	JD/GS
FILE NO.:	1209.013
DATE:	06.19.2024
DWG. NO:	C-14

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1 DETAIL: TYPICAL 8'-0" FENCE

SCALE 1/2"=1'-0"

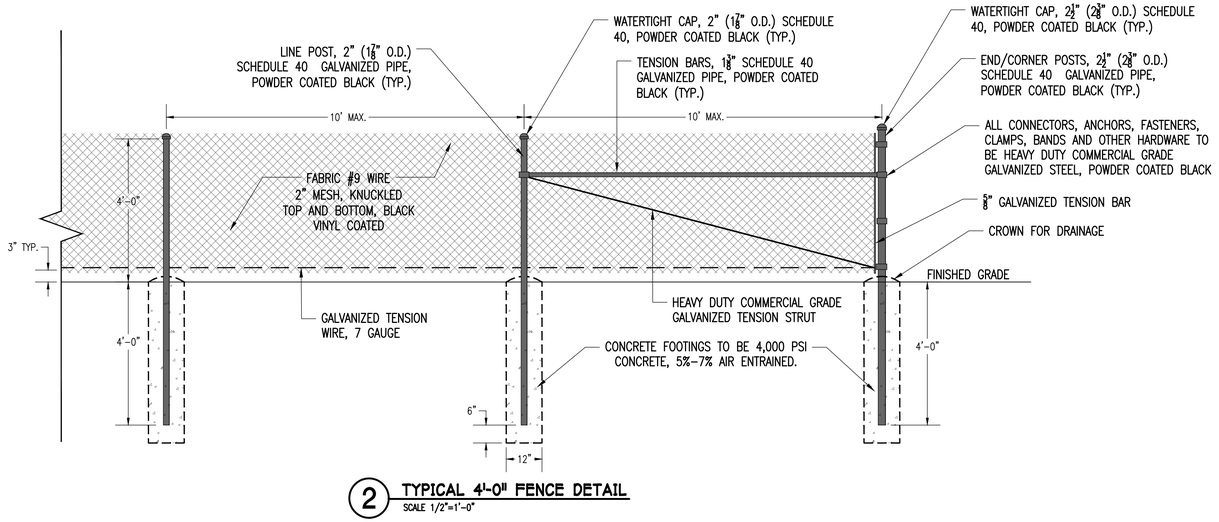


NOTES:

1. PROPOSED GATE TO MATCH EXISTING GATE IN SIZE AND MATERIALS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM ALL MEASUREMENTS PRIOR TO BIDDING.
3. CONTRACTOR CAN UTILIZE EXISTING GATE AND PARTS AT HIS/HER DISCRETION.

3 DETAIL: 8'-0" GATE

SCALE 1/2"=1'-0"



2 TYPICAL 4'-0" FENCE DETAIL

SCALE 1/2"=1'-0"

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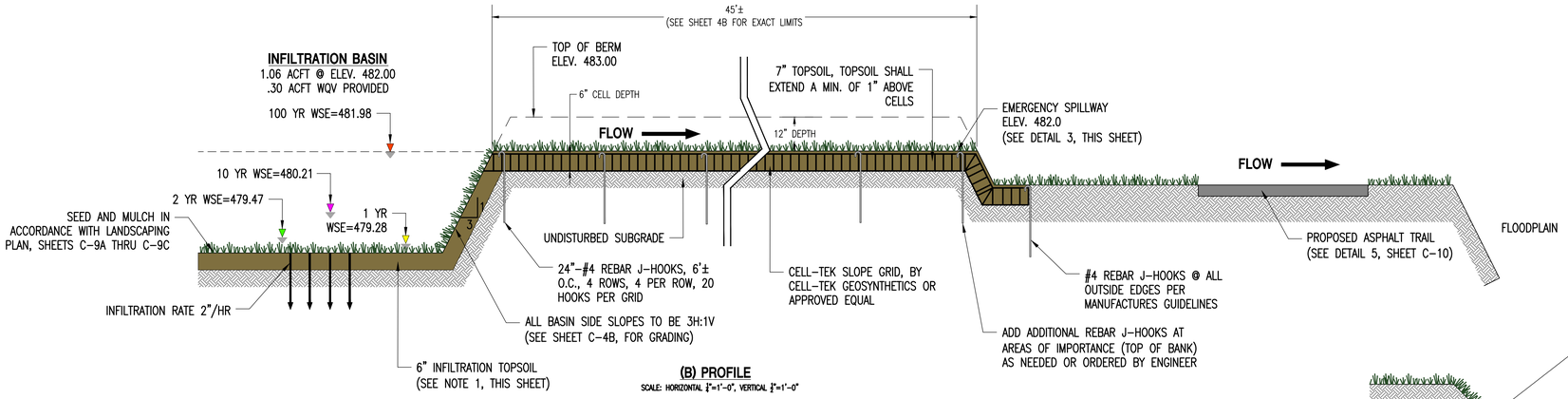
TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

FENCING DETAILS

SCALE: AS NOTED	FILE NO.: 1209.012
DESIGNED BY: JPB/JD	DATE: 09.06.2023
DRAWN BY: JGA	DWG. NO: C-15
CHECKED BY: JPB/JD	

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(B) PROFILE
SCALE: HORIZONTAL 1"=1'-0", VERTICAL 1"=1'-0"

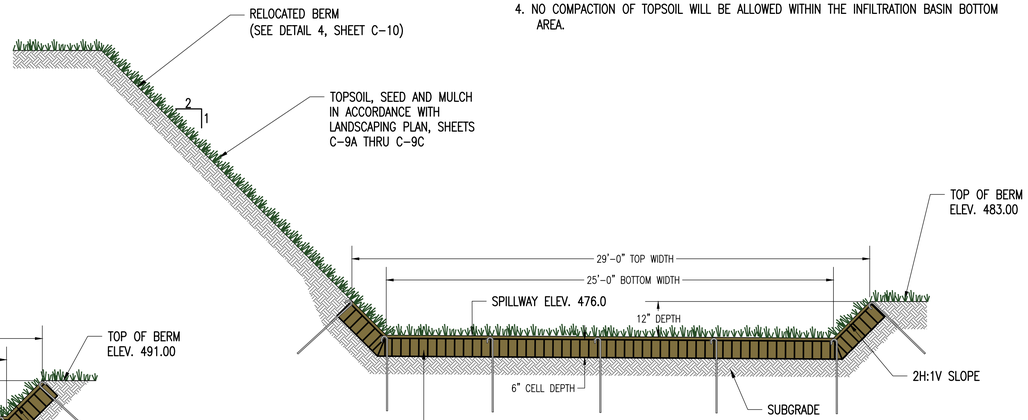
1 DETAIL: INFILTRATION BASIN
SCALE: AS SHOWN

INFILTRATION BASIN NOTES:

1. INFILTRATION TOPSOIL LAYER TO BE PER NYSDOT ITEM 713-01-ROADSIDE WITH A PH BETWEEN 5.5 AND 7.6, 3% TO 8% ORGANIC CONTENT AND THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT PASSING BY WEIGHT
2 INCH	100%
1 INCH	95% TO 100%
¼ INCH	80% TO 95%
NO. 200	15% TO 70%
2 MICRON	0% TO 20%

2. TOPSOIL TO HAVE A MINIMUM INFILTRATION RATE OF 2" PER HR. CONTACT ENGINEER FOR TESTING PRIOR TO PLACEMENT. AMEND TOPSOIL IF NECESSARY AS ORDERED BY ENGINEER.
3. AVOID COMPACTION AND HEAVY EQUIPMENT WITHIN THE INFILTRATION BASIN BOTTOM AREA. SOIL RESTORATION PROCEDURES IN ACCORDANCE WITH THE NYSDEC STORMWATER DESIGN MANUAL WILL BE REQUIRED IF COMPACTION OCCURS AT THE CONTRACTOR'S EXPENSE.
4. NO COMPACTION OF TOPSOIL WILL BE ALLOWED WITHIN THE INFILTRATION BASIN BOTTOM AREA.



(A) CROSS SECTION
SCALE: HORIZONTAL 1"=1'-0", VERTICAL 1"=1'-0"

NOTES:

1. CELL-TEK SLOPE GRID TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. 48- ¼" GALVANIZED U-BOLTS (NOT SHOWN) WITH BE REQUIRED PER 8' MAT-SEE MANUFACTURER'S INSTALLATION GUIDELINES.
3. CELL-TEK SLOPE GRID TO BE ANCHORED USING THE J-HOOK REBAR METHOD AS SHOWN AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION GUIDELINES

3 DETAIL: INFILTRATION BASIN SPILLWAY
SCALE: AS SHOWN

(A) CROSS SECTION
SCALE: HORIZONTAL 1"=1'-0", VERTICAL 1"=1'-0"

(A) CROSS SECTION
SCALE: HORIZONTAL 1"=1'-0", VERTICAL 1"=1'-0"

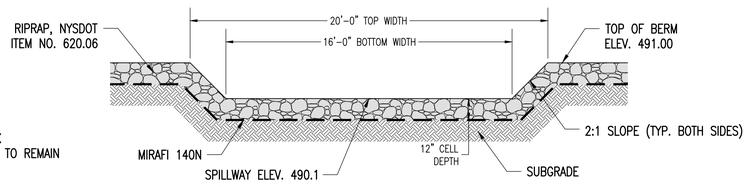
NOTES:

1. CELL-TEK SLOPE GRID TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. 48- ¼" GALVANIZED U-BOLTS (NOT SHOWN) WITH BE REQUIRED PER 8' MAT-SEE MANUFACTURER'S INSTALLATION GUIDELINES.
3. CELL-TEK SLOPE GRID TO BE ANCHORED USING THE J-HOOK REBAR METHOD AS SHOWN AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION GUIDELINES

4 DETAIL: RIVERSTONE SWALE SPILLWAY
SCALE: AS SHOWN

(B) PROFILE
SCALE: HORIZONTAL 1"=1'-0", VERTICAL 1"=1'-0"

2 DETAIL: WETLAND "A" SPILLWAY
SCALE: AS SHOWN



5 DETAIL: RIPRAP STABILIZED SPILLWAY
SCALE: HORIZONTAL 1/4"=1'-0", VERTICAL 1/2"=1'-0"

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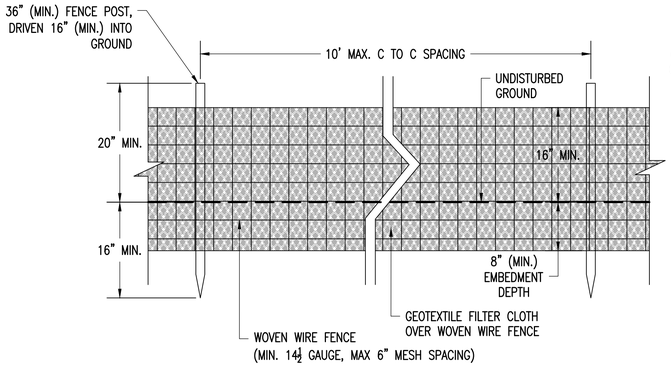
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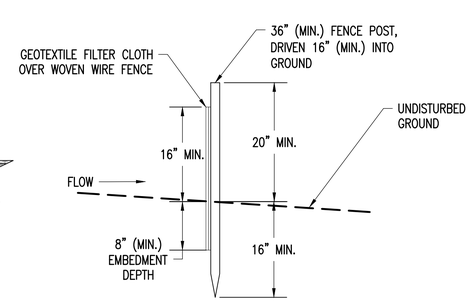
TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK
RAYHILL MEMORIAL TRAIL REMEDIATION

STORMWATER MANAGEMENT DETAILS

SCALE:	AS NOTED
FILE NO.:	1209.012
DESIGNED BY:	JPB/JD
DATE:	07.09.2025
DRAWN BY:	JGA
DWG. NO:	C-16
CHECKED BY:	JPB/JD

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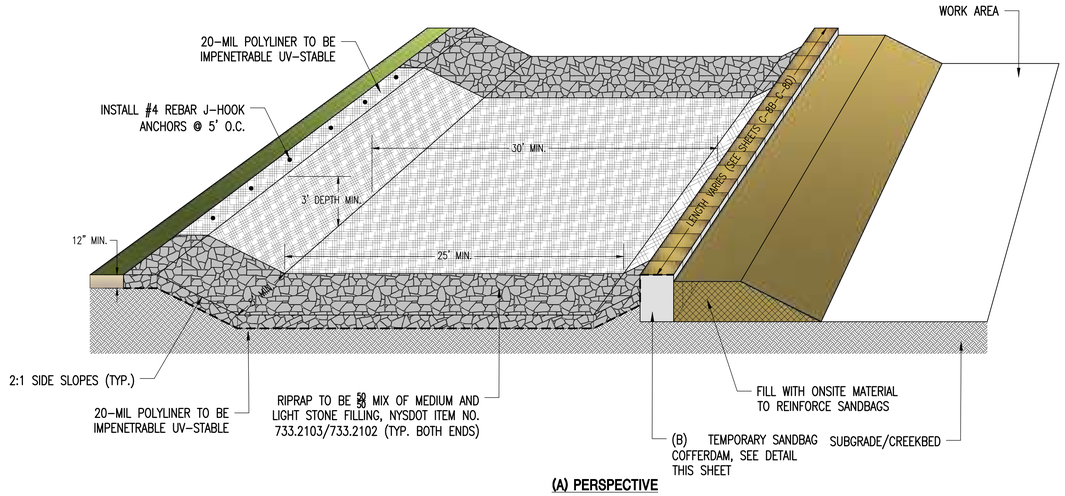




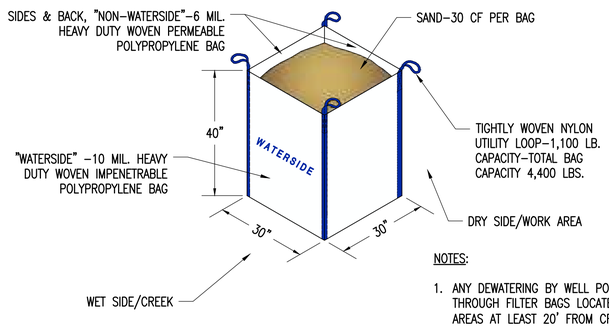
NOTES:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID-SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. FENCING SHALL BE INSPECTED MONTHLY, AND FOLLOWING MAJOR RAINFALLS.
5. THE FOLLOWING MATERIALS SHALL BE USED FOR CONSTRUCTION OF THE SILT FENCE:
   POSTS: STEEL EITHER "T" OR "U" TYPE OR 2" HARDWOOD
   FENCE: WOVEN WIRE 14-1/2 GA., 6" MAX. MESH OPENING
   FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL
   PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

1 DETAIL: SILT FENCE
SCALE 1"=1'-0"



(A) PERSPECTIVE
SCALE: NTS



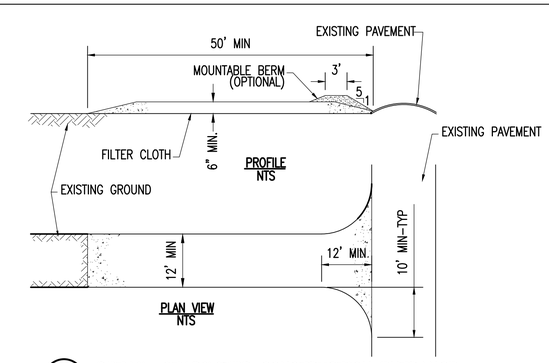
NOTE: ALTERNATIVES THAT ARE EQUAL IN EFFECTIVENESS TO THE SANDBAG COFFERDAM MAY BE ALLOWED PENDING APPROVAL BY ENGINEER AND NYSDEC.

NOTES:

1. ANY DEWATERING BY WELL POINTING OR PUMPING SHALL BE DISCHARGED THROUGH FILTER BAGS LOCATED IN UNDISTURBED, STABILIZED VEGETATED AREAS AT LEAST 20' FROM CREEK.

(B) TEMPORARY SANDBAG COFFERDAM
SCALE: 1"=1'-0"

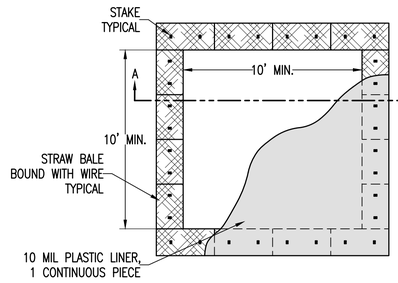
3 DETAIL: TEMPORARY STREAM DIVERSION
NTS

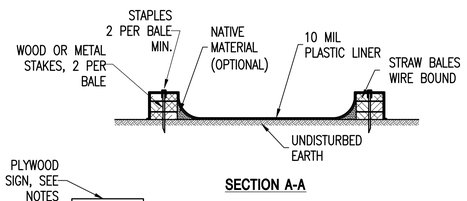


2 DETAIL: STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

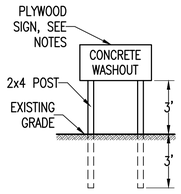
NOTES:

1. STONE SIZE – USE 1-4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 75'.
3. THICKNESS – NO LESS THAN 6".
4. WIDTH – 20' MIN., BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. GEOTEXTILE CLOTH (MIRAFI 500X) TO BE PLACED OVER ENTIRE AREA PRIOR TO PLACING OF STONE
6. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC R.O.W. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC R.O.W. MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

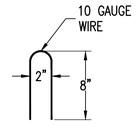




SECTION A-A



CONCRETE WASHOUT SIGN DETAIL



STAPLE DETAIL

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 20' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. SIGN SHALL BE 2'x4'x3/4" CDX PLYWOOD. 2X4 POSTS, WITH 1/2" LAG SCREWS.
4. PLYWOOD SHALL BE PAINTED WHITE WITH 5" BLACK LETTERS.

4 DETAIL: CONCRETE WASHOUT
NOT TO SCALE

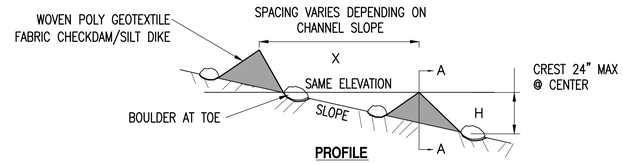
EROSION AND SEDIMENT CONTROL NOTES:

1. PRIOR TO THE START OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS ARE RE-VEGETATED, ALL EROSION AND SEDIMENT CONTROL MEASURES, AS SHOWN ON THE EROSION CONTROL PLAN, SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR. THE ENGINEER SHALL APPROVE ANY DEVIATIONS FROM THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO INSTALLATION.
2. BARE SOILS SHALL BE SEEDED WITHIN 7 DAYS OF EXPOSURE, UNLESS CONSTRUCTION WILL BEGIN IN THE DISTURBED AREA WITHIN 14 DAYS. AREAS WHERE CONSTRUCTION IS COMPLETED, OR AREAS WHERE CONSTRUCTION IS SUSPENDED SHALL BE SEEDED IMMEDIATELY. NO PHOSPHOROUS SHALL BE USED AT PLANTING TIME UNLESS SOIL TESTING HAS BEEN COMPLETED AND TESTED BY A HORTICULTURAL TESTING LAB AND THE SOIL TESTS SPECIFICALLY INDICATE A PHOSPHOROUS DEFICIENCY THAT IS HARMFUL, OR WILL PREVENT NEW LAWNS AND PLANTINGS FROM ESTABLISHING PROPERLY. IF SOIL TESTS INDICATE A PHOSPHOROUS DEFICIENCY THAT WILL IMPACT PLANT AND LAWN ESTABLISHMENT, PHOSPHOROUS SHALL BE APPLIED AT THE MINIMUM RECOMMENDED LEVEL PRESCRIBED IN THE SOIL TEST FOLLOWING ALL N.Y.S.D.E.C. REGULATIONS.

   SITE PREPARATION SHALL INCLUDE:

   A. SEEDBED PREPARATION – SCARIFY IF COMPACTED, REMOVE DEBRIS AND OBSTACLES SUCH AS ROOTS OR STUMPS.
   B. SOIL AMENDMENTS
      1. ADD LIME TO ATTAIN pH 6.5
      2. FERTILIZE WITH 850 LBS OF 5-0-10 OR EQUIVALENT PER ACRE (14 LBS/100 SQ FT).
   C. SEED MIXTURES
      1. TEMPORARY SEEDING
         a. SPRING, SUMMER, OR EARLY FALL: SEED WITH RYEGRASS (ANNUAL OR PERENNIAL) @ 30 LBS/ACRE (0.7 LBS/1000 SQ FT).
         b. LATE FALL OR EARLY WINTER: SEED WITH CERTIFIED "AROOSTOCK" WINTER RYE (CEREAL RYE) @100 LB/ACRE (2.5 LB/1000 SQ FT).
      2. SEE OTHER DETAILS FOR PERMANENT TOPSOIL & SEEDING
   D. METHOD OF SEEDING – BROADCASTING, DRILLING WITH CULTIPACK TYPE SEEDER OR HYDROSEEDING ARE ACCEPTABLE.
   E. MULCHING – HAY OR STRAW – 2 TONS PER ACRE (100 BALES MIN.). FOR OTHER MULCH MATERIAL APPLICATION RATES, REFER TO TABLE 3.7 IN THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE STREET/PARKING LOT PAVEMENT AREAS CLEAN OF DIRT AND DEBRIS ON A DAILY BASIS, INCLUDING DOT PARKING LOT ACCESS DRIVE.
4. ACCESS TO DISTURBED AREAS SHALL BE LIMITED TO THE AREAS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL INSTALL A STABILIZED CONSTRUCTION ENTRANCE AT EACH ACCESS POINT.
5. CONTRACTOR SHALL PROVIDE DUST CONTROL ON ALL TRAVELED AREAS IN ACCORDANCE WITH SECTION 7A OF THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL".
6. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE NEEDED AS DETERMINED BY THE WEEKLY INSPECTIONS TO FURTHER CONTROL EROSION AND MINIMIZE SEDIMENT. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPLYING AND IMPLEMENTING ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY AS ORDERED BY ENGINEER.
7. ALL SPECIFICATIONS AND DETAILS FOR EROSION AND SEDIMENT CONTROL HAVE BEEN DESIGNED BY DUNN & SGROMO ENGINEERS IN ACCORDANCE WITH THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL."
8. TOPSOIL STOCKPILES SHALL BE PLACED ON A LEVEL SURFACE. ALL TOPSOIL STOCKPILES TO BE SEEDED WITH TEMPORARY VEGETATION IMMEDIATELY AFTER PLACEMENT, AND PROTECTED FROM SEDIMENT RUNOFF AT THE BASE WITH SILT FENCING. IF STOCKPILES ARE DISTURBED, THEY SHALL BE RE-SEEDED IMMEDIATELY AFTER USE.
9. REFERENCE MAINTENANCE REQUIREMENTS FOR ALL EROSION CONTROL PRACTICES IN THE N.Y.S. EROSION & SEDIMENT CONTROL STANDARDS.
10. IF SOIL DISTURBANCE ACTIVITIES ARE OCCURRING BETWEEN NOVEMBER 15TH AND APRIL 1ST, N.Y.S.D.E.C. WINTER STABILIZATION STANDARDS (P. 2.38- BLUE BOOK) MUST BE FOLLOWED.
11. CONTRACTOR WILL BE AUTHORIZED TO DISTURB OVER 5 ACRES AT A TIME. CONTRACTOR SHALL NOTIFY ENGINEER WHEN OVER 5 ACRES IS DISTURBED AT ANY ONE TIME, AS BI-WEEKLY INSPECTIONS WILL BE REQUIRED.



CONSTRUCTION SPECIFICATIONS

1. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
2. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE. MAXIMUM DRAINAGE AREA 2 ACRES.

4 DETAIL: CHECK DAM
NOT TO SCALE

NOT FOR CONSTRUCTION

THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISION UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

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STATE OF NEW YORK · GREGORY SGROMO · LICENSED PROFESSIONAL ENGINEER · 073202

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NO.	DATE	REVISION	BY

TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK
RAYHILL MEMORIAL TRAIL REMEDIATION

EROSION CONTROL DETAILS

SCALE:	AS NOTED
FILE NO.:	1209.020
DESIGNED BY:	JPB/KLL
DATE:	09.06.2023
DRAWN BY:	KLL
DWG. NO:	C-17
CHECKED BY:	JPB/JD

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SHEETPILING NOTES:

SCOPE OF WORK:

1. THE SCOPE OF WORK FOR THIS COMPONENT OF THE PROJECT INCLUDES FURNISHING AND INSTALLING A RETAINING/FLOOD WALL SYSTEM UTILIZING GRADE 60 SHEET PILES IN ACCORDANCE WITH ASTM A527. WORK INCLUDES DESIGNING, FURNISHING AND INSTALLING A COMPLETE SHEET PILE WALL SYSTEM, WITH ALL REQUIRED ELEMENTS INCLUDING BUT NOT LIMITED TO, SHEET PILES, CAPS, WALERS, TIE BACKS, DEADMAN ANCHORS, GRANULAR BACKFILL, ONSITE BACKFILL, AND STAMPED PLANS AND SPECIFICATIONS BY A LICENSED PROFESSIONAL ENGINEER WITH EXPERIENCE DESIGNING SHEET PILE RETAINING/FLOOD WALL SYSTEMS, IN CONFORMANCE WITH THE LINES, GRADES, DIMENSIONS, AND SPECIFICATIONS SHOWN IN THE CONTRACT DOCUMENTS. ALL DESIGN PLANS WILL BE PROVIDED TO THE TOWN OF NEW HARTFORD AND THE TOWN'S ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

2. SHEET PILE INSTALLERS/CONTRACTORS SHALL HAVE A MINIMUM OF 5 YEARS OF EXPERIENCE INSTALLING SHEET PILE RETAINING/FLOOD WALL SYSTEMS. PROFESSIONAL REFERENCES AND PROJECTS COMPLETED MUST BE SUBMITTED BY ALL PROPOSED CONTRACTORS. THE APPROVAL OF PROPOSED CONTRACTORS WILL BE AT THE DISCRETION OF THE TOWN OF NEW HARTFORD AND THE TOWN'S ENGINEER.

GENERAL NOTES:

1. A GEOTECHNICAL INVESTIGATION WITH 2 BORINGS DRILLED ALONG THE RETAINING WALL HAS BEEN COMPLETED AND INCLUDED IN THE PROJECT SPECIFICATIONS. ADDITIONAL TEST HOLES WILL BE AT THE DISCRETION OF THE CONTRACTOR AND THEIR STRUCTURAL ENGINEER. ALL ADDITIONAL GEOTECHNICAL INVESTIGATIONS MUST BE COMPLETED IN ACCORDANCE WITH INDUSTRY STANDARDS. THE MINIMUM REQUIRED SOIL BORINGS WILL BE PER THE DESIGN/GEOTECHNICAL ENGINEER'S RECOMMENDATION AND SATISFACTION OF A.1. NCMA SECTION 12.1.1 SUBSURFACE EXPLORATION, AND A.2. AASHTO SECTION 10.4.2 SUBSURFACE EXPLORATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ADDITIONAL GEOTECHNICAL INVESTIGATION.

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE DESIGN SOIL PARAMETERS PRIOR TO AND DURING CONSTRUCTION. THESE VERIFICATIONS SHALL BE COMPLETED BY A LICENSED GEOTECHNICAL ENGINEER AT THE CONTRACTOR'S EXPENSE. ALL SOIL REPORTS/INSPECTIONS SHALL BE PROVIDED TO THE TOWN OF NEW HARTFORD AND THE TOWN ENGINEER. FAILURE TO VALIDATE THE PROVIDED SOIL PARAMETERS CAN RESULT IN STRUCTURE FAILURE. THE CONTRACTOR WILL BE HELD LIABLE FOR ANY SUCH FAILURES.

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL COORDINATE RELOCATION OF ANY EXISTING CONDUITS AND SERVICES WITH THE UTILITY PROVIDER. IF CONFLICTS EXIST, THE TOWN'S ENGINEER SHALL BE CONTACTED IMMEDIATELY.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR EXECUTION OF WORK, INCLUDING LOCAL BUILDING INSPECTION AND CURRENT OSHA STANDARDS.

3. THE WORK SHALL BE PERFORMED IN A GENERAL SEQUENCE DEVELOPED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE SEQUENCES AND PROCEDURES TO BE USED.

4. IF THE CONTRACTOR FINDS A CONFLICT, ERROR OR DISCREPANCY WITHIN THE CONTRACT DOCUMENTS AND DESIGN PLANS, THE CONTRACTOR SHALL IMMEDIATELY REPORT THE ISSUE TO THE RESPECTIVE ENGINEER IN WRITING. THE CONTRACTOR SHALL OBTAIN A WRITTEN INTERPRETATION OR CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. WORK DONE BEFORE THE ENGINEER RENDERS A DECISION IS AT THE SOLE RISK OF THE CONTRACTOR.

5. WORK WILL BE PERFORMED ON OR NEAR PRIVATE PROPERTY. THE TOWN HAS PROCURED PERMISSION TO COMPLETE ALL WORK WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THE CONTRACT PLANS. IF AT ANYTIME THE CONTRACTOR INTENDS TO PERFORM WORK OR ACCESS AREAS OUTSIDE THE LIMITS OF DISTURBANCE IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY INCLUDING ALL EXPENSES TO OBTAIN PERMISSION AND LEGAL AGREEMENTS FROM PRIVATE PROPERTY OWNERS.

6. ALL PICK/HANDLING HOLES SHALL BE SEALED WATERTIGHT WITH STEEL PLATES AFTER INSTALLATION.

7. RETAINING WALL CONSTRUCTION TO BE INSPECTED AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER AT THE CONTRACTOR'S EXPENSE. A CERTIFICATION LETTER INCLUDING ALL REPORTS, PHOTOS, INSPECTIONS, GEOTECHNICAL CERTIFICATIONS, ETC. SHALL BE PROVIDED TO THE TOWN OF NEW HARTFORD PRIOR TO ACCEPTANCE.

EXCAVATION

1. CONTRACTOR SHALL EXCAVATE TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS. CONTRACTOR SHALL BE CAREFUL NOT TO DISTURB EMBANKMENT AND FOUNDATION MATERIALS BEYOND LINES SHOWN. EXCAVATION FOR CONSTRUCTION OF THE RETAINING WALL SHALL CONFORM TO OSHA REQUIREMENTS FOR SAFE EXCAVATION.

2. EXCAVATION SUPPORT (SHEETING AND BRACING), IF REQUIRED, IS THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING THE STABILITY OF THE EXCAVATION AND ITS INFLUENCE ON THE ADJACENT PROPERTIES AND STRUCTURES.

SHEETPILING NOTES (CONTINUED):

DESIGN INFORMATION:

1. RETAINING WALL: Z TYPE, GRADE 60 HOT ROLLED STEEL SHEET PILE SYSTEM, IN ACCORDANCE WITH ASTM A572
   TIE ROD ANCHORS: GRADE 80 GALVANIZED STEEL, FULLY THREADED BAR IN ACCORDANCE WITH ASTM A615.
   TIE ROD NUTS: GRADE 80 GALVANIZED STEEL IN ACCORDANCE WITH ASTM A108/A576.
   TIE ROD COUPLERS: GRADE 80 GALVANIZED STEEL IN ACCORDANCE WITH ASTM A108/A576.
   TIE ROD HARDENED WASHERS: GRADE 80 GALVANIZED STEEL IN ACCORDANCE WITH ASTM F436.
   TIE ROD BEARING PLATES: GRADE 80 GALVANIZED STEEL IN ACCORDANCE WITH ASTM 572.
   TIE ROD TURNBUCKLES: GRADE 80 GALVANIZED STEEL IN ACCORDANCE WITH A572.
   FABRICATED PLATE STEEL PLATES: GRADE 60 STEEL, IN ACCORDANCE WITH ASTM A572.
   WALERS: GRADE 60 HOT ROLLED STEEL IN ACCORDANCE WITH ASTM 572.
   CAPS: GRADE 60 HOT ROLLED STEEL IN ACCORDANCE WITH ASTM 572.
   DEADMEN: 4,000 PSI CONCRETE OR GRADE 60 HOT ROLLED STEEL IN ACCORDANCE WITH ASTM 572.

2. LIVE LOAD SURCHARGE: 250 PSF (CONSTRUCTION EQUIPMENT)
   DEAD LOAD SURCHARGE: N/A
   HYDROSTATIC LOADING: FLOODING TO ELEVATION 473.0 FEET MUST BE CONSIDERED
   WALL: CREEK SCOUR TO ELEVATION 453.0 FEET MUST BE CONSIDERED

3. WALL GEOMETRY: SEE SHEET C-4C, GRADING PLAN

4. FACTORS OF SAFETY: IN ACCORDANCE WITH INDUSTRY STANDARDS AND ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS SHALL BE IMPLEMENTED AND DOCUMENTED IN THE DESIGN.

5. SEISMIC: SITE CLASS D PER GEOTECHNICAL REPORT (S_{DS}=.181g, S_{D1}=.109g), SEISMIC DESIGN CATEGORY B, MODERATE SEISMIC HAZARD, MUST BE EVALUATED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.

6. CREEK LOCATION: WALL SHOULD BE EVALUATED WITH CONSIDERATION TO THE CREEK LOCATION. THE PROPOSED THALWEG OF THE CREEK IS LOCATED AWAY FROM THE WALL; HOWEVER, CREEK SYSTEMS ARE DYNAMIC AND CAN RELOCATE OVER TIME. THIS FACT SHOULD BE CONSIDERED IN THE DESIGN AS THE THALWEG COULD RELOCATE AND PLACE PERMANENT WATER IN CONTACT WITH THE WALL SYSTEM.

7. CORROSION PROTECTION MUST BE CONSIDERED, BY EITHER COMPENSATING FOR CORROSION BY INCREASING THICKNESS OF SHEET PILES, PROTECTIVE COATING OR CATHODIC PROTECTION.

8. PLANS AND SPECIFICATIONS STAMPED AND SIGNED BY PROFESSIONAL ENGINEER MUST BE SUBMITTED TO THE TOWN OF NEW HARTFORD AND TOWN'S ENGINEER FOR APPROVAL INCLUDING ALL DESIGN CALCULATIONS AND ANY ASSUMPTIONS MADE. ONCE APPROVED THEY WILL BECOME PART OF THE CONSTRUCTION PACKAGE.

SOIL COMPACTION

1. ALL BACKFILL WILL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR IN ACCORDANCE WITH THE COMPACTION SPECIFICATIONS PROVIDED IN THE CONTRACT DOCUMENTS.

2. COMPACTION TESTING SHALL BE PERFORMED BY AN INDEPENDENT ENGINEERING CONSULTANT ON EACH COMPACTED LIFT AT THE CONTRACTOR'S EXPENSE. ALL TEST RESULTS WILL BE PROVIDED TO THE TOWN OF NEW HARTFORD AND THE TOWN'S ENGINEER.

3. RETAINING/FLOOD WALL PLANS AND SPECIFICATIONS SHALL OUTLINE ANY SPECIFIC LIMITATIONS TO COMPACTION METHODS ALLOWED DURING CONSTRUCTION.

4. ALL FILL MATERIALS SHALL BE APPROVED BY GEOTECHNICAL ENGINEER AND TOWN'S ENGINEER PRIOR TO PLACEMENT.

BACK SLOPE PLACEMENT

1. ALL BACKFILL PLACED ABOVE THE RETAINED BACKFILL SHALL BE PLACED AND COMPACTED TO 95% OF THE MODIFIED PROCTOR IN ACCORDANCE WITH THE COMPACTION SPECIFICATION PROVIDED IN THE CONTRACT DOCUMENTS.

2. THE BACK SLOPE SHALL BE STABILIZED IN ACCORDANCE WITH DETAIL 2, THIS SHEET.

SITE DRAINAGE

1. CONTRACTOR SHALL PROTECT RETAINING WALLS AGAINST SURFACE WATER RUNOFF FROM ADJACENT AREAS AT ALL TIMES DURING CONSTRUCTION THROUGH THE USE OF BERMS, DIVERSION DITCHES, TEMPORARY DRAINS, OR ANY OTHER MEANS NECESSARY.

2. AT THE END OF EACH DAYS OPERATION, THE CONTRACTOR SHALL SLOPE THE LAST LIFT AWAY FROM THE WALL TO DIRECT RUNOFF AWAY FROM THE WALL.

3. AT COMPLETION OF WALL CONSTRUCTION, SLOPING BACKFILL SHALL BE PLACED. IF FINAL GRADING, PAVING, LANDSCAPING, OR STORM DRAINAGE INSTALLATIONS ADJACENT TO THE WALL ARE NOT PLACED IMMEDIATELY AFTER THE WALL CONSTRUCTION IS COMPLETED, TEMPORARY GRADING AND DRAINAGE SHALL BE PROVIDED TO ENSURE WATER RUNOFF IS NOT DIRECTED TOWARDS THE WALL NOR ALLOWED TO COLLECT OR POND BEHIND THE WALL UNTIL FINAL CONSTRUCTION ADJACENT TO THE WALL IS COMPLETED.

4. ALL SLOPES ABOVE OR BELOW THE RETAINING WALL SHALL BE IMMEDIATELY STABILIZED AND PROTECTED FROM EROSION.

5. THERE ARE 3 DRAINAGE PIPES THAT CURRENTLY DISCHARGE TO THE CREEK IN THE LIMITS OF THE WALL. PROVISIONS BY THE DESIGN ENGINEER SHOULD BE MADE TO DISCHARGE THESE PIPES THROUGH THE WALL. SEE DETAIL 7, SHEET C-11 FOR CONNECTION DETAIL. ALL CONNECTIONS TO BE WATERTIGHT.

SHEETPILING NOTES:

PROFESSIONAL GEOTECHNICAL ENGINEER:

A GEOTECNICAL ENGINEER SHALL BE RETAINED BY THE CONTRACTOR AT HIS OR HER EXPENSE TO PERFORM THE FOLLOWING:

1. OBSERVE SITE SOIL CONDITIONS FOR COMPLIANCE WITH RETAINING WALL DESIGN PLANS PRIOR TO WALL CONSTRUCTION. IF THE GEOTECHNICAL ENGINEER DETERMINES THE ONSITE SOIL WILL NOT EXHIBIT THE EFFECTIVE STRESS PARAMETERS ASSUMED IN THE DESIGN PLANS, THE WALL CONSTRUCTION SHALL NOT COMMENCE UNTIL AN APPROPRIATE SOLUTION IS DETERMINED.

2. INSPECT WALL EXCAVATION AND RETAINED SOILS FOR GROUNDWATER AND SEEPAGE. IF EITHER CONDITION OBSERVED, IS IN CONFLICT WITH THE DESIGN PLANS THE GEOTECHNICAL ENGINEER SHALL IMMEDIATELY HALT THE RETAINING WALL CONSTRUCTION AND NOTIFY THE TOWN OF NEW HARTFORD, THE TOWNS ENGINEER AND THE DESIGN STRUCTURAL ENGINEER.

3. WALL BACKFILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER AND THE TOWN'S ENGINEER FOR COMPLIANCE WITH THE APPROVED RETAINING WALL PLANS AND SPECIFICATIONS.

4. WALL BACKFILL SOIL SHALL BE TESTED BY THE GEOTECHNICAL ENGINEER OR AN INDEPENDENT ENGINEERING CONSULTANT FOR MOISTURE, DENSITY, AND COMPACTION EVERY 2-FEET VERTICALLY, 100-FEET C/C, OR PER THE DESIGN ENGINEERS SPECIFICATIONS IF MORE STRINGENT.

5. GEOTECHNICAL ENGINEER SHALL CERTIFY THAT ALL BACKFILL MATERIAL, PLACEMENT, AND COMPACTION IS IN ACCORDANCE WITH THE STAMPED PLANS AND SPECIFICATIONS. A CERTIFICATION LETTER INCLUDING ALL REPORTS, PHOTO'S, INSPECTIONS, ETC. SHALL BE PROVIDED TO THE TOWN OF NEW HARTFORD PRIOR TO ACCEPTANCE.

RETAINING WALL CONSTRUCTION INSPECTOR:

A RETAINING WALL CONSTRUCTION INSPECTOR SHALL BE RETAINED BY THE CONTRACTOR AT HIS OR HER EXPENSE TO PERFORM THE FOLLOWING:

1. THE RETAINING WALL CONSTRUCTION SHALL BE INSPECTED BY A LICENSED PROFESSIONAL ENGINEER OR QUALIFIED TECHNICIAN (IF NOT THE GEOTECHNICAL ENGINEER). THE INSPECTOR SHALL HAVE ADEQUATE KNOWLEDGE OF THE PROJECT AND BE FAMILIAR WITH THE MEANS AND METHODS OF RETAINING WALL CONSTRUCTION. IF THE RETAINING WALL INSPECTOR IS NOT EMPLOYED BY THE GEOTECHNICAL ENGINEER, THE GEOTECHNICAL ENGINEER SHALL BE CONSULTED IN THOSE MATTERS PERTAINING TO SOIL CONDITIONS AND WALL PERFORMANCE.

2. THE INSPECTOR IS RESPONSIBLE FOR READING AND UNDERSTANDING THE RETAINING WALL DESIGN AND CONSTRUCTION PLANS AND SPECIFICATIONS. THE INSPECTOR SHALL BE IN POSSESSION OF A COMPLETE SET OF THESE DOCUMENTS WHEN PERFORMING ON-SITE INSPECTIONS.

3. THE INSPECTOR SHALL INSPECT ALL THE ELEMENTS OF THE SHEET PILE RETAINING WALL SYSTEM, WALL ELEVATIONS, GRADES, BACK SLOPE, AND TOE SLOPE CONDITIONS FOR CONFORMANCE WITH THE APPROVED SHOP DRAWINGS.

4. THE INSPECTOR SHALL INSPECT ALL ELEMENTS OF THE SHEET PILE RETAINING WALL SYSTEM TO ENSURE THEY DO NOT CONTAIN ANY VISIBLE DEFECTS.

5. THE INSPECTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTOR AND DESIGN ENGINEER OF ANY DEFICIENCIES DISCOVERED IN THE RETAINING WALL INSTALLATION AND PROVIDE THE CONTRACTOR A REASONABLE OPPORTUNITY TO CORRECT THE DEFICIENCY.

6. THE INSPECTOR SHALL NOTIFY THE CONTRACTOR, THE TOWN OF NEW HARTFORD, THE TOWN'S ENGINEER, AND THE DESIGN ENGINEER OF ANY CONSTRUCTION DEFICIENCIES THAT HAVE NOT BEEN CORRECTED IN A TIMELY MANNER.

7. THE INSPECTOR SHALL DOCUMENT AND MAINTAIN THOROUGH RECORDS OF ALL INSPECTION RESULTS, INCLUDING PHOTOS. THESE RECORDS/REPORTS SHALL BE PROVIDED TO THE DESIGN ENGINEER, THE TOWN OF NEW HARTFORD AND THE TOWN'S ENGINEER UPON COMPLETION OF THE RETAINING WALL OR AS REQUESTED.

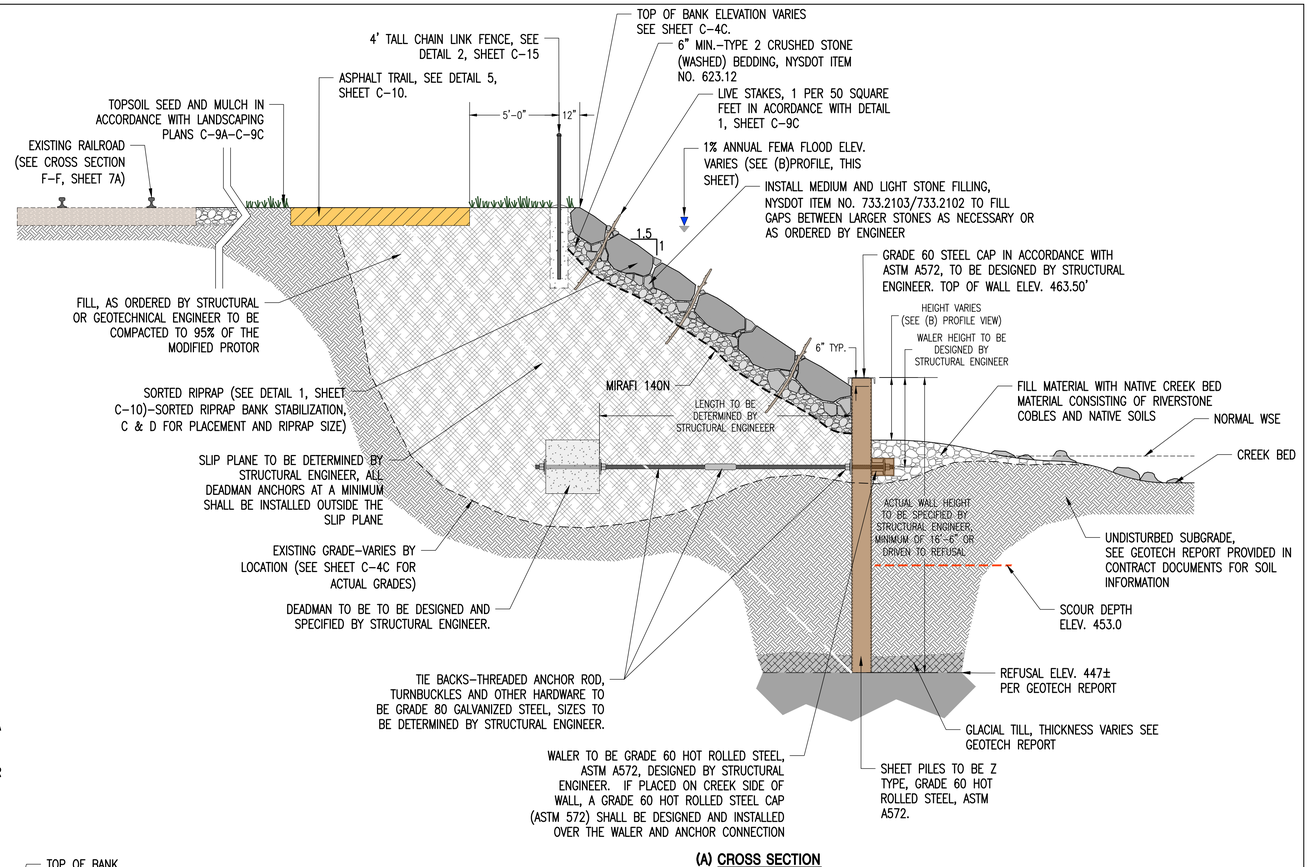
CONTRACTOR:

1. THE CONTRACTOR SHALL MONITOR ALL ELEMENTS OF THE SHEET PILE RETAINING WALL SYSTEM DURING CONSTRUCTION AND REPORT ANY VISIBLE DEFECTS TO THE INSPECTOR IMMEDIATELY UPON DISCOVERY.

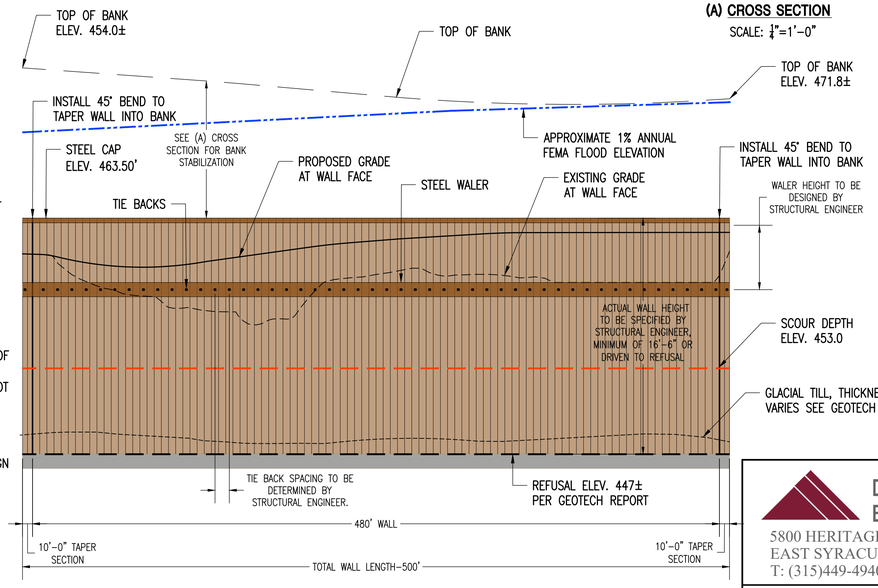
2. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN QUALITY CONTROL FOR THE CONSTRUCTION OF THE RETAINING WALL TO ENSURE COMPLIANCE WITH THE CONTRACT REQUIREMENTS.

MAINTENANCE:

1. THE DESIGN ENGINEER SHALL SPECIFY AND PROVIDE ANY MAINTENANCE REQUIREMENTS ASSOCIATED WITH THE SHEET PILE RETAINING WALL SYSTEM TO THE TOWN OF NEW HARTFORD AND THE TOWN'S ENGINEER.



(A) CROSS SECTION
SCALE: 1/4"=1'-0"



(B) PROFILE VIEW
SCALE: VERTICAL 1"=5', HORIZONTAL 1"=50'

1 DETAIL: SHEET PILE RETAINING WALL
SCALE: AS NOTED

NOT FOR CONSTRUCTION

THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISION UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

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TOWN OF NEW HARTFORD
ONEIDA COUNTY, NEW YORK

RAYHILL MEMORIAL TRAIL REMEDIATION

SHEET PILE RETAINING WALL DETAILS & NOTES

NO.	DATE	REVISION	BY

SCALE: AS NOTED
FILE NO.: 1209.012
DESIGNED BY: JPB
DATE: 06.19.2024
DRAWN BY: JPB/JGA
CHECKED BY: JD
DWG. NO: C-18

Q:\CADD Files\PROJECTS\Town of New Hartford - 1209\012 - Rayhill Trail Improvements\Working Drawings\Contract Drawings\SHEET PILE DETAILS-C-18.dwg, 8/21/2025 2:02:51 PM