

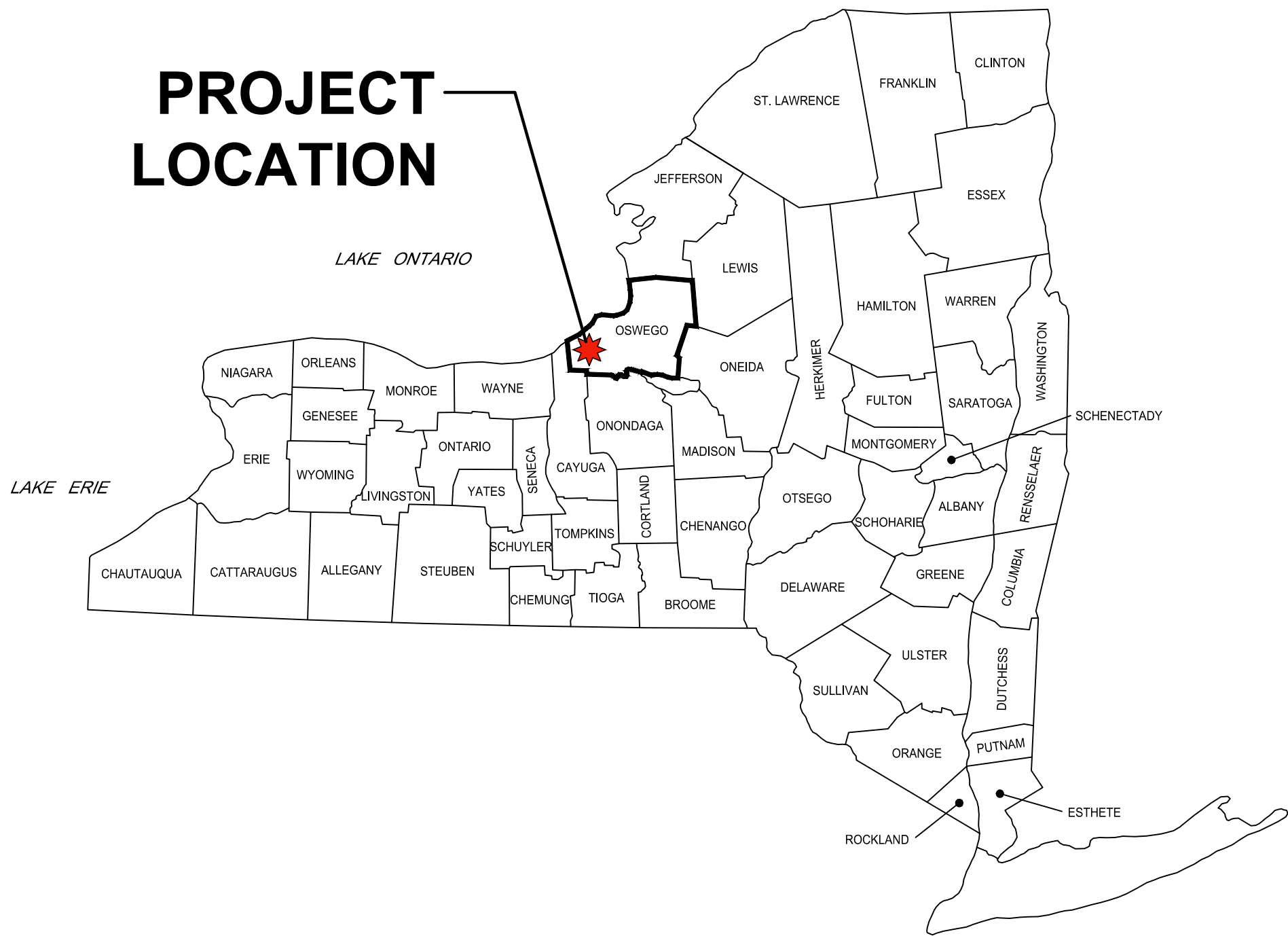
TOWN OF OSWEGO

REPLACEMENT OF THOMPSON ROAD BRIDGE OVER RICE CREEK - BIN 2209140

COUNTY OF OSWEGO - STATE OF NEW YORK
PROJECT NO. 2016-187

TOWN BOARD

SUPERVISOR	RICHARD E. KAULFUSS
COUNCILWOMAN	VICTORIA MULLEN
COUNCILMAN	GREG HERRMANN
COUNCILMAN	RICHARD TESORIERO
COUNCILMAN	JON FOWLER
CLERK	NIKKI FOWLER
HIGHWAY SUPT.	ROBERT MALONE JR.



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GENERAL NOTES

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

PROTECTION OF WATER RESOURCES NOTES

- CONTRACTOR IS ADVISED THAT THIS PROJECT IS SUBJECT TO THE REQUIREMENTS OF BOTH USACE AND NYSDEC PERMITS.
- COPIES OF BOTH PERMITS ARE INCLUDED IN THE PROJECT MANUAL.
- THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE REQUIREMENTS OF THOSE PERMITS.

RIGHT-OF-WAY NOTES

UNLESS OTHERWISE SHOWN IN THE PLANS, ALL CONTRACT WORK SHALL BE PERFORMED FROM WITHIN THE PUBLIC RIGHT-OF-WAY (ROW), INCLUDING ANY FEE ACQUISITIONS, PERMANENT EASEMENTS AND/OR TEMPORARY EASEMENTS SHOWN IN THE PLANS. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS BEING PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS, DEBRIS, AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THIS INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIER.

IF THE CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHT-OF-WAY WHEN THE CONTRACT CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTACT THE PROJECT ENGINEER FOR DEFINITIVE BOUNDARY DETERMINATION BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS.

GENERAL DESIGN NOTES:

DESIGN SPECIFICATIONS: NYSDOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS JULY 2020 (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR CAST IN PLACE SUBSTRUCTURES AT 28 DAYS: f_c = 5,000 psi. MIN.)

LIVE LOAD: AASHTO HL - 93 AND NYSDOT DESIGN PERMIT VEHICLE.

MAINTENANCE NOTE:

UPON COMPLETION OF THIS CONTRACT, THE TOWN OF OSWEGO WILL BE THE PARTY RESPONSIBLE FOR THE MAINTENANCE OF THIS BRIDGE.

THIS BRIDGE SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MAINTENANCE MANUAL FOR ROADWAYS AND BRIDGES.

THE LOAD RATINGS SHALL BE IN ACCORDANCE WITH THE AASHTO MANUAL FOR BRIDGE EVALUATION.

FOUNDATION NOTES:

THE COST OF WATER USED FOR COMPACTION OF FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 304.14. STRUCTURE FILL.

SUBSTRUCTURE NOTES:

THE CONTRACTOR, WITH THE PERMISSION OF THE ENGINEER, MAY ELECT TO INTRODUCE CONSTRUCTION JOINTS IN THE WING WALLS AT LOCATIONS NOT SHOWN ON THE PLANS. THESE CONSTRUCTION JOINTS SHALL BE PROVIDED WITH SHEAR KEYS AND WATERSTOPS. VERTICAL CONSTRUCTION JOINTS SHOULD PREFERABLY BE PLACED AT LOCATIONS WHICH DIVIDE THE VISIBLE FACE INTO EQUAL GEOMETRIC SHAPES.

THE COST OF ALL MATERIAL AT EACH CONSTRUCTION JOINT, CONTRACTION JOINT AND CONCRETE EXPANSION JOINT SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

COFFERDAM AND HYDRAULIC NOTES:

WHERE A COFFERDAM IS USED, THE COST OF DEWATERING THE ENTIRE EXCAVATION, REGARDLESS OF THE SOURCE OF WATER, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE COFFERDAM ITEM.

SHOULD FIELD CONDITIONS REQUIRE A CHANGE FROM THE TYPE OF COFFERDAM SYSTEM CALLED FOR ON THE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR COORDINATION WITH APPROPRIATE AGENCIES TO APPROVE THE CHANGE.

DEWATER THE COFFERDAM BY PUMPING THE WATER TO AN APPROVED UPLAND VEGETATED AREA OUTSIDE OF THE STREAMBED AS SHOWN ON THE PLANS AND/OR APPROVED BY THE ENGINEER. TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL, SUCH AS STRAW BALES OR APPROVED EQUAL, MAY BE REQUIRED AS DETERMINED BY THE ENGINEER. NO SETTLEMENT BASIN SHALL BE CONSTRUCTED.

ORDINARY HIGH WATER IS ESTIMATED TO BE 296.74'. THIS IS DEFINED AS THE WATER SURFACE ELEVATION FOR THE MEAN ANNUAL FLOOD, WHICH IS THE FLOOD THAT HAS A RECURRENCE INTERVAL OF 2.33 YEARS.

ORDINARY WATER IS ESTIMATED TO BE 296.50'. THIS IS DEFINED AS THE HIGHEST SURFACE WATER ELEVATION LIKELY TO BE ENCOUNTERED DURING ONE CONSTRUCTION SEASON (OTHER THAN MAJOR FLOODS). IT IS ALWAYS LESS THAN THE ORDINARY HIGH WATER ELEVATION AND IT IS USUALLY AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.

LOW WATER IS ESTIMATED TO BE 296.25'. THIS WATER ELEVATION IS THE NORMAL LOW WATER ELEVATION PREVALENT DURING ONE CONSTRUCTION SEASON FOR MORE THAN 25% OF THE TIME. IT IS AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.

RECONSTRUCTION NOTES:

DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.

THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE STATE, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE STATE, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.

DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT DROP WASTE CONCRETE, DEBRIS, AND OTHER MATERIAL TO THE AREA BELOW THE BRIDGE EXCEPT WHERE THE PLANS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL. PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK WILL BE STOPPED UNTIL ADEQUATE PROTECTION IS PROVIDED.

ALL MATERIAL FALLING ON THE AREA BELOW AND ADJACENT TO THE BRIDGE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE TOWN.

THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE PRICES BID FOR THE APPROPRIATE ITEMS OF THE CONTRACT.

THE CONTRACTOR SHALL REMOVE AND REMOUNT THE BRIDGE IDENTIFICATION NUMBER (BIN) PLATE AFTER CONSTRUCTION IS COMPLETED.

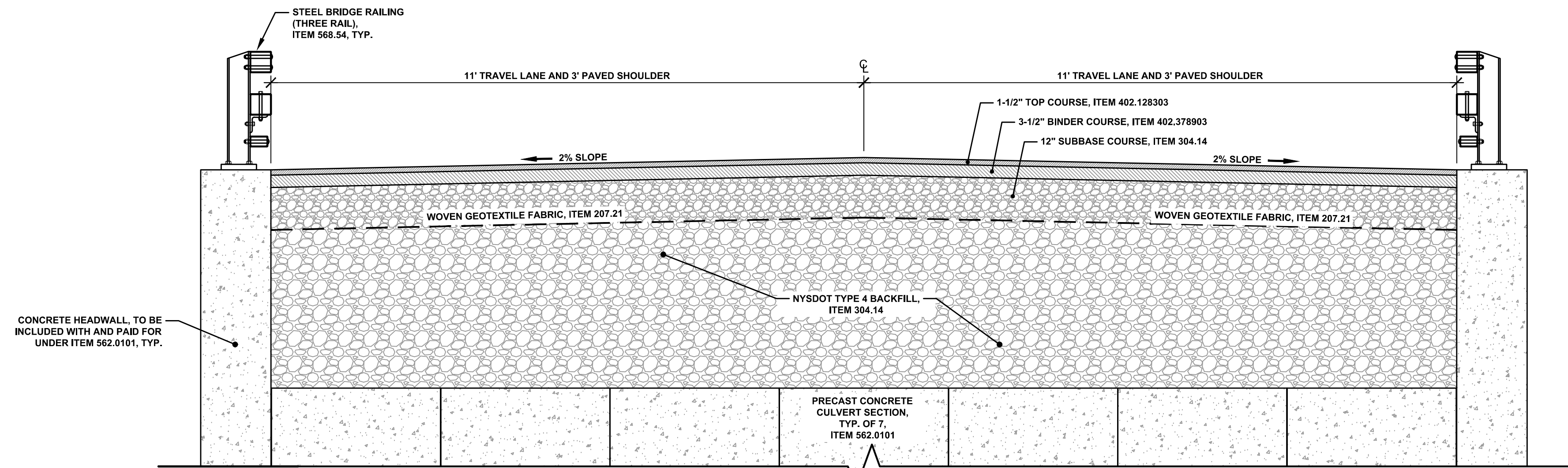
STREAM PROTECTION NOTE:

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

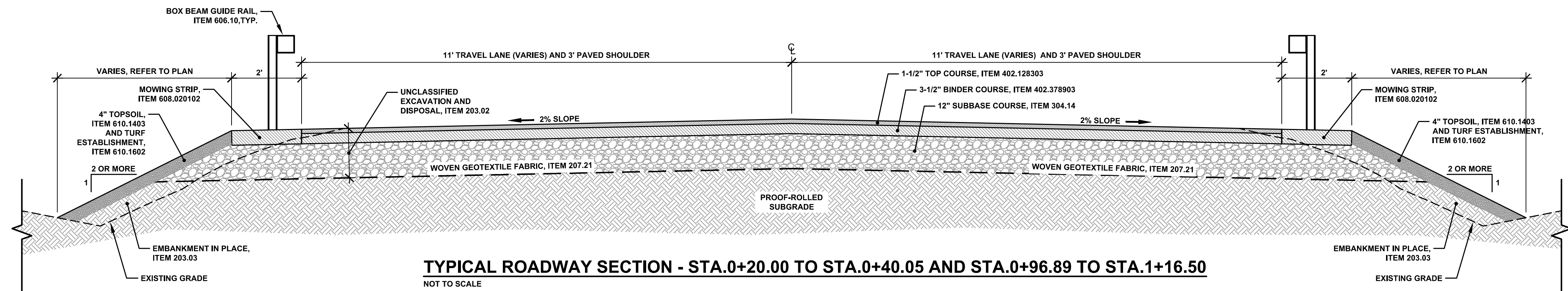
HYDRAULIC DATA			
Drainage Area =	17 (sq. miles)	Basic Flood	Design Flood
Recurrancy Interval =	(YEARS)	100	50
Peak Discharge =	(ft ³ /s)	1,307	878
High Water Elevation @ Pt. of Max. Backwater	Existing	302.13	300.38
	Proposed	297.71	297.02
Ave. Velocity Thru Structure (ft/s)		4.35	

(NO SCOUR ANALYSIS, AS HEAVY RIP-RAP PROTECTION DESIGNED TO ALLOW FOR NO SCOUR)

	GENERAL NOTES	<div>BCA</div> <div>ARCHITECTS</div> <div>ENGINEERS</div>	Bernier, Carr & Associates, Engineers, Architects and Land Surveyors, P.C. <small>327 Mullin Street, Watertown, NY 13601 (315) 782-8130 - WWW.THEBCGROUP.COM</small>		CHECKED BY: CDD	<div>SHEET NO.</div> <div>I-1</div> <div>PROJECT NO.</div> <div>2016-187</div>
	TOWN OF OSWEGO REPLACEMENT OF THOMPSON ROAD BRIDGE OVER RICE CREEK - BIN 2209140 <small>COUNTY OF OSWEGO - STATE OF NEW YORK</small>				DRAWN BY: KML	
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TYPICAL ROADWAY SECTION OVER BRIDGE - STA.0+40.05 TO STA.0+96.89
NOT TO SCALE



TYPICAL ROADWAY SECTION - STA.0+20.00 TO STA.0+40.05 AND STA.0+96.89 TO STA.1+16.50
NOT TO SCALE

TYPICAL SECTIONS
TOWN OF OSWEGO
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OVER RICE CREEK - BIN 2209140
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TS-1
PROJECT NO.
2016-187



PROJECT LOCATION

WORK ZONE TRAFFIC CONTROL PLAN
TOWN OF OSWEGO
REPLACEMENT OF THOMPSON ROAD BRIDGE
OVER RICE CREEK - BIN 2209140
COUNTY OF OSWEGO - STATE OF NEW YORK

BCA
ARCHITECTS
ENGINEERS

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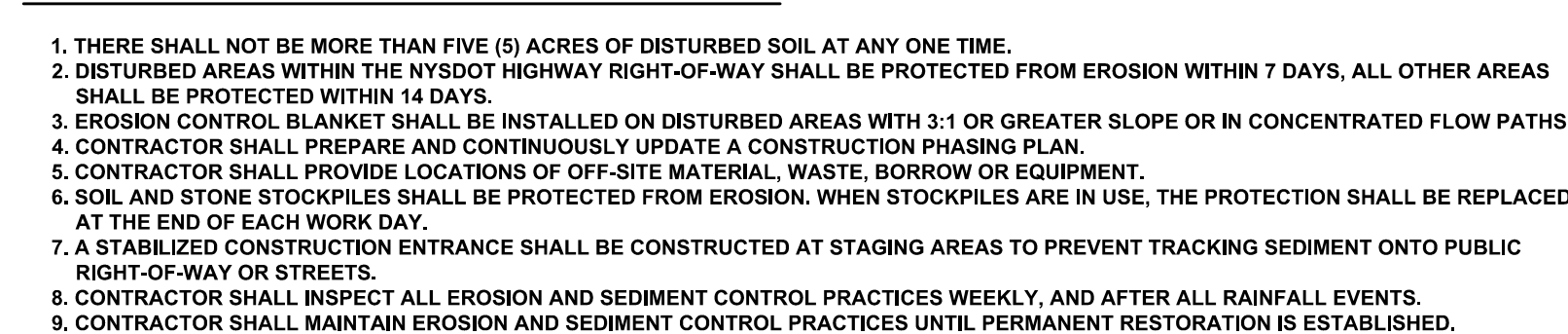
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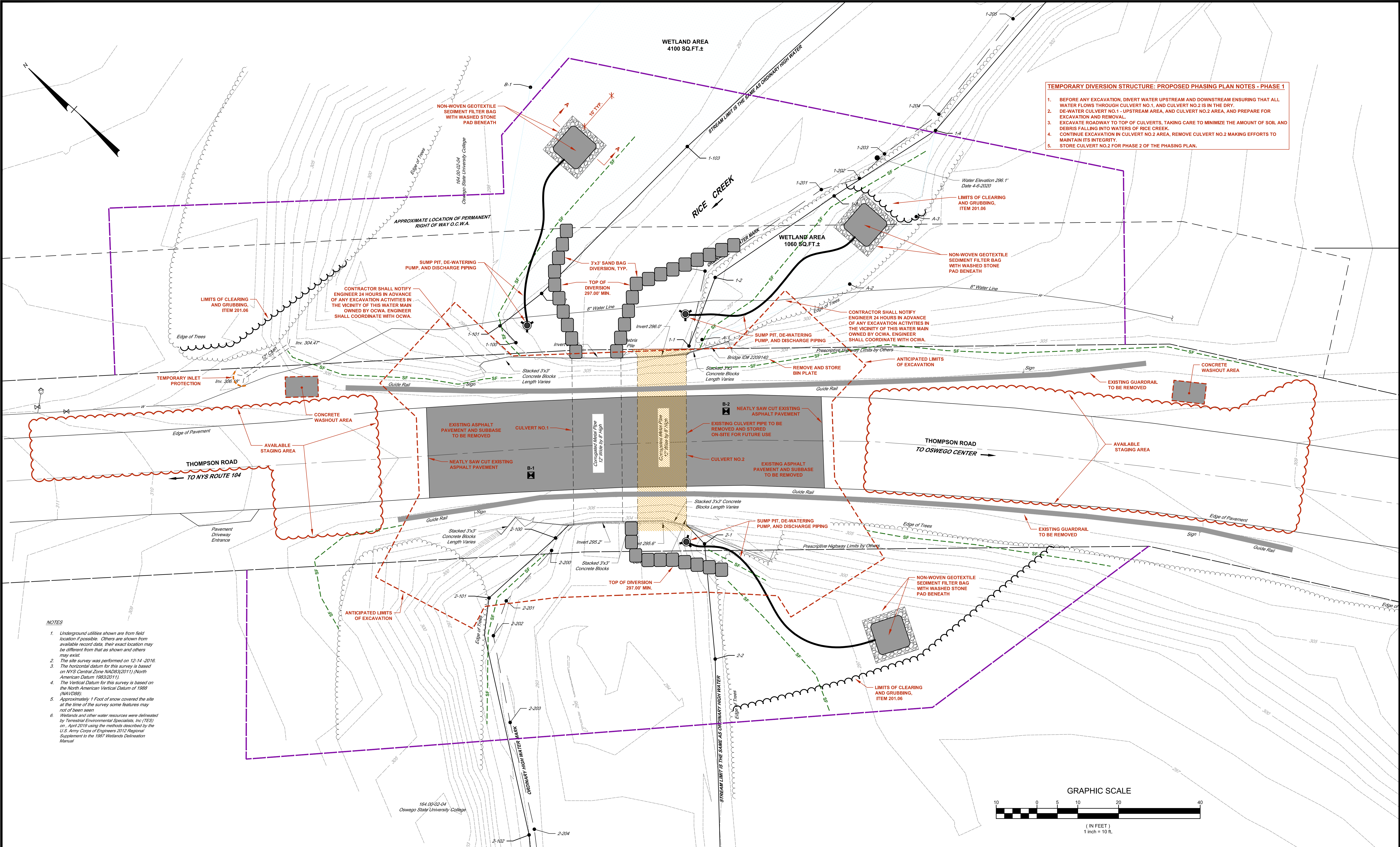


- NOT TO SCALE**



- NOT TO SCALE**





- TEMPORARY DIVERSION STRUCTURE: PROPOSED PHASING PLAN NOTES - PHASE 1**
- BEFORE ANY EXCAVATION, DIVERT WATER UPSTREAM AND DOWNSTREAM ENSURING THAT ALL WATER FLOWS THROUGH CULVERT NO. 1, AND CULVERT NO. 2 IS IN THE DRY.
 - DE-WATER CULVERT NO. 1 - UPSTREAM AREA, AND CULVERT NO. 2 AREA, AND PREPARE FOR EXCAVATION AND REMOVAL.
 - EXCAVATE ROADWAY TO TOP OF CULVERTS, TAKING CARE TO MINIMIZE THE AMOUNT OF SOIL AND DEBRIS FALLING INTO WATERS OF RICE CREEK.
 - CONTINUE EXCAVATION IN CULVERT NO. 2 AREA, REMOVE CULVERT NO. 2 MAKING EFFORTS TO MAINTAIN ITS INTEGRITY.
 - STORE CULVERT NO. 2 FOR PHASE 2 OF THE PHASING PLAN.

- NOTES**
- Underground utilities shown are from field location if possible. Others are shown from available record data, their exact location may be different from that as shown and others may exist.
 - The site survey was performed on 12-14-2016.
 - The horizontal datum for this survey is based on NYS Central Zone NAD83(2011) (North American Datum 1983(2011)).
 - The Vertical Datum for this survey is based on the North American Vertical Datum of 1988 (NAVD88).
 - Approximately 1 Foot of snow covered the site at the time of the survey some features may not of been seen
 - Wetlands and other water resources were delineated by Terrestrial Environmental Specialists, Inc. (TES) on April 2019 using the methods described by the U.S. Army Corps of Engineers 2012 Regional Supplement to the 1987 Wetlands Delineation Manual

TEMPORARY DIVERSION PLAN - PHASE 1

TOWN OF OSWEGO
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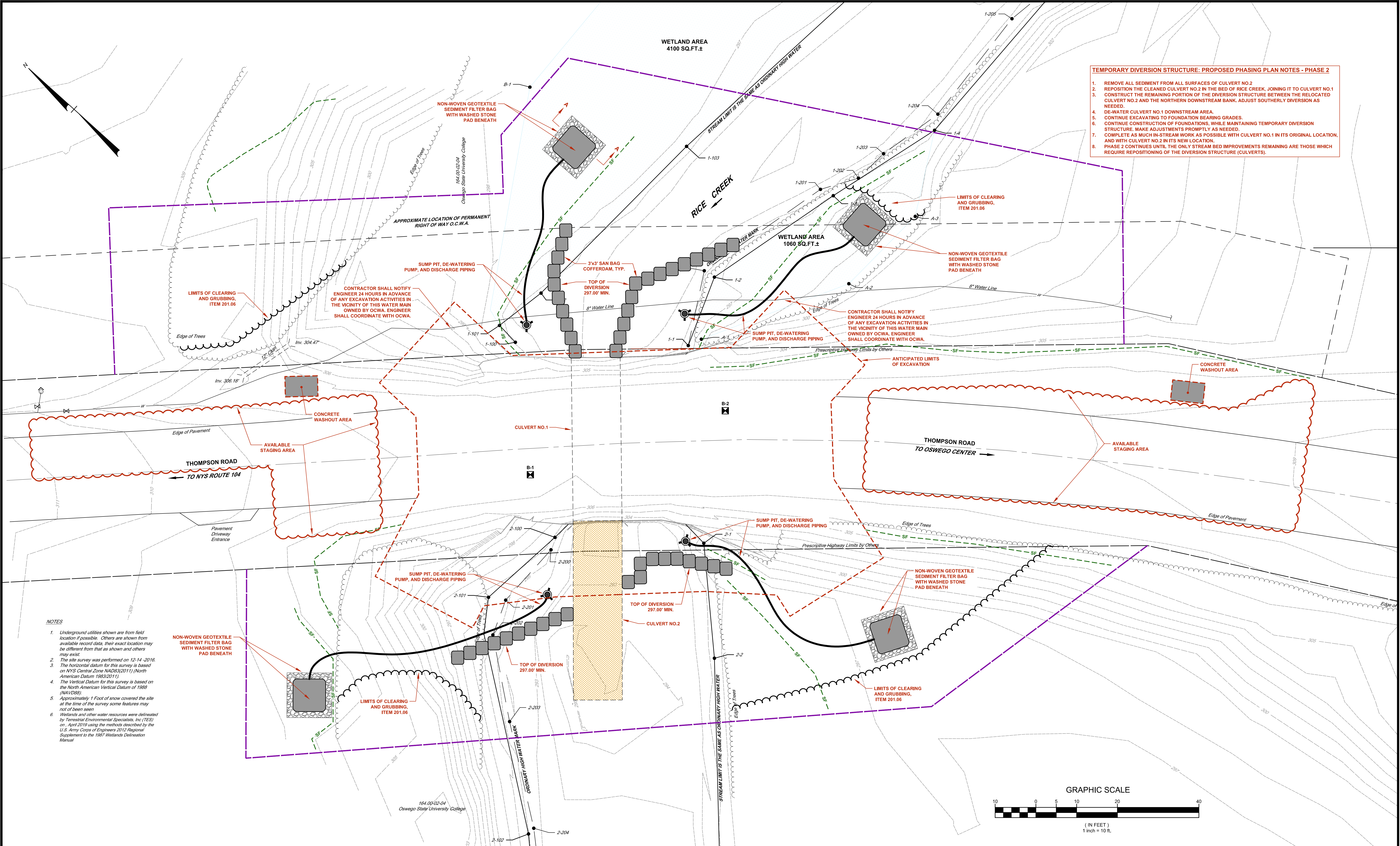
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- TEMPORARY DIVERSION STRUCTURE: PROPOSED PHASING PLAN NOTES - PHASE 2
- REMOVE ALL SEDIMENT FROM ALL SURFACES OF CULVERT NO.2
 - REPOSITION THE CLEANED CULVERT NO.2 IN THE BED OF RICE CREEK, JOINING IT TO CULVERT NO.1
 - CONSTRUCT THE REMAINING PORTION OF THE DIVERSION STRUCTURE BETWEEN THE RELOCATED CULVERT NO.2 AND THE NORTHERN DOWNSTREAM BANK. ADJUST SOUTHERLY DIVERSION AS NEEDED.
 - DE-WATER CULVERT NO.1 DOWNSTREAM AREA.
 - CONTINUE EXCAVATING TO FOUNDATION BEARING GRADES.
 - CONTINUE CONSTRUCTION OF FOUNDATIONS, WHILE MAINTAINING TEMPORARY DIVERSION STRUCTURE. MAKE ADJUSTMENTS PROMPTLY AS NEEDED.
 - COMPLETE AS MUCH IN-STREAM WORK AS POSSIBLE WITH CULVERT NO.1 IN ITS ORIGINAL LOCATION, AND WITH CULVERT NO.2 IN ITS NEW LOCATION.
 - PHASE 2 CONTINUES UNTIL THE ONLY STREAM BED IMPROVEMENTS REMAINING ARE THOSE WHICH REQUIRE REPOSITIONING OF THE DIVERSION STRUCTURE (CULVERTS).

TEMPORARY DIVERSION PLAN - PHASE 2

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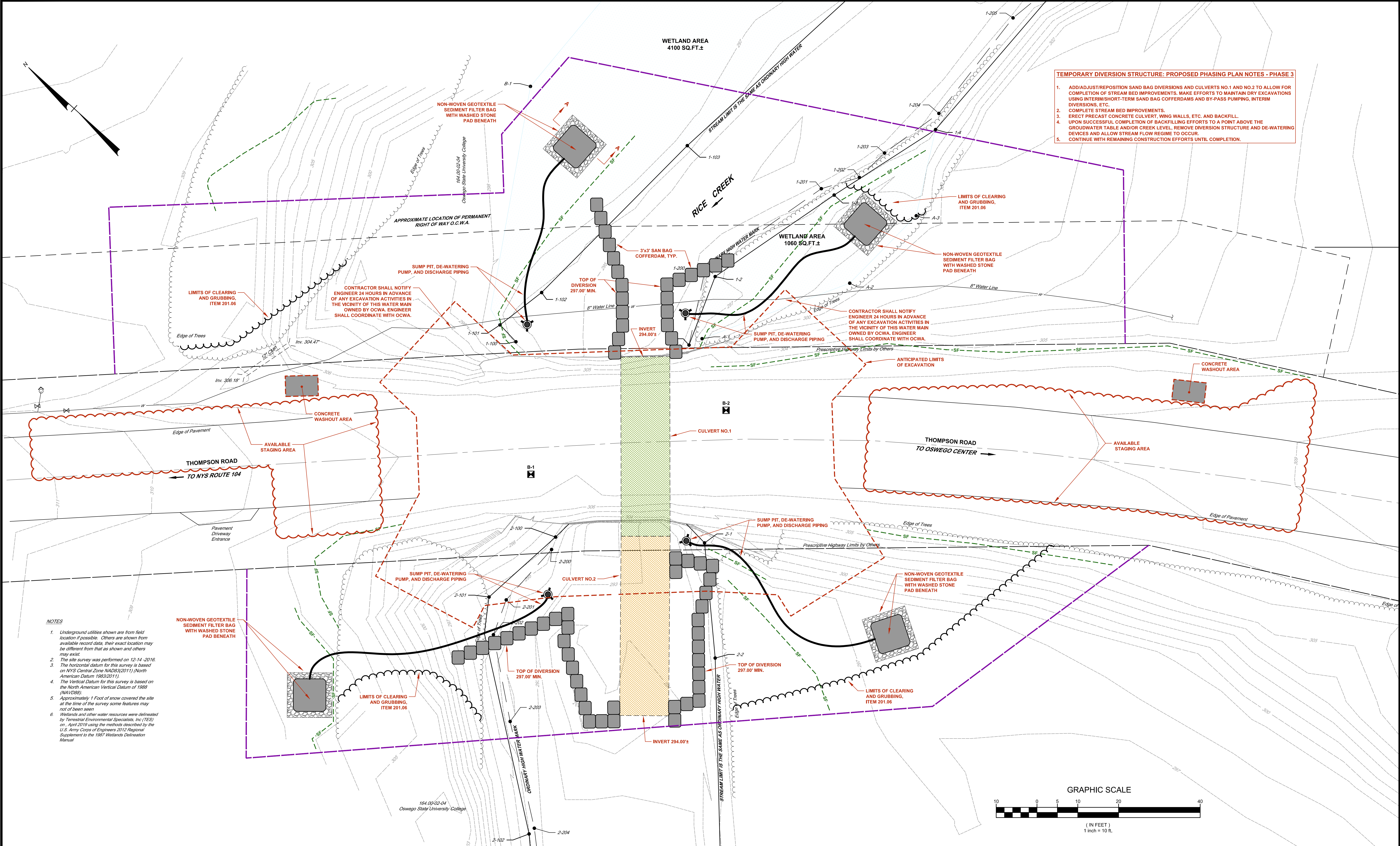
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- TEMPORARY DIVERSION STRUCTURE: PROPOSED PHASING PLAN NOTES - PHASE 3**
1. ADJUST/REPOSITION SAND BAG DIVERSIONS AND CULVERTS NO.1 AND NO.2 TO ALLOW FOR COMPLETION OF STREAM BED IMPROVEMENTS. MAKE EFFORTS TO MAINTAIN DRY EXCAVATIONS USING INTERIM/SHORT-TERM SAND BAG COFFERDAMS AND BY-PASS PUMPING, INTERIM DIVERSIONS, ETC.
 2. COMPLETE STREAM BED IMPROVEMENTS.
 3. ERECT PRECAST CONCRETE CULVERT, WING WALLS, ETC. AND BACKFILL.
 4. UPON SUCCESSFUL COMPLETION OF BACKFILLING EFFORTS TO A POINT ABOVE THE GROUNDWATER TABLE AND/OR CREEK LEVEL, REMOVE DIVERSION STRUCTURE AND DE-WATERING DEVICES AND ALLOW STREAM FLOW REGIME TO OCCUR.
 5. CONTINUE WITH REMAINING CONSTRUCTION EFFORTS UNTIL COMPLETION.

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TEMPORARY DIVERSION PLAN - PHASE 3

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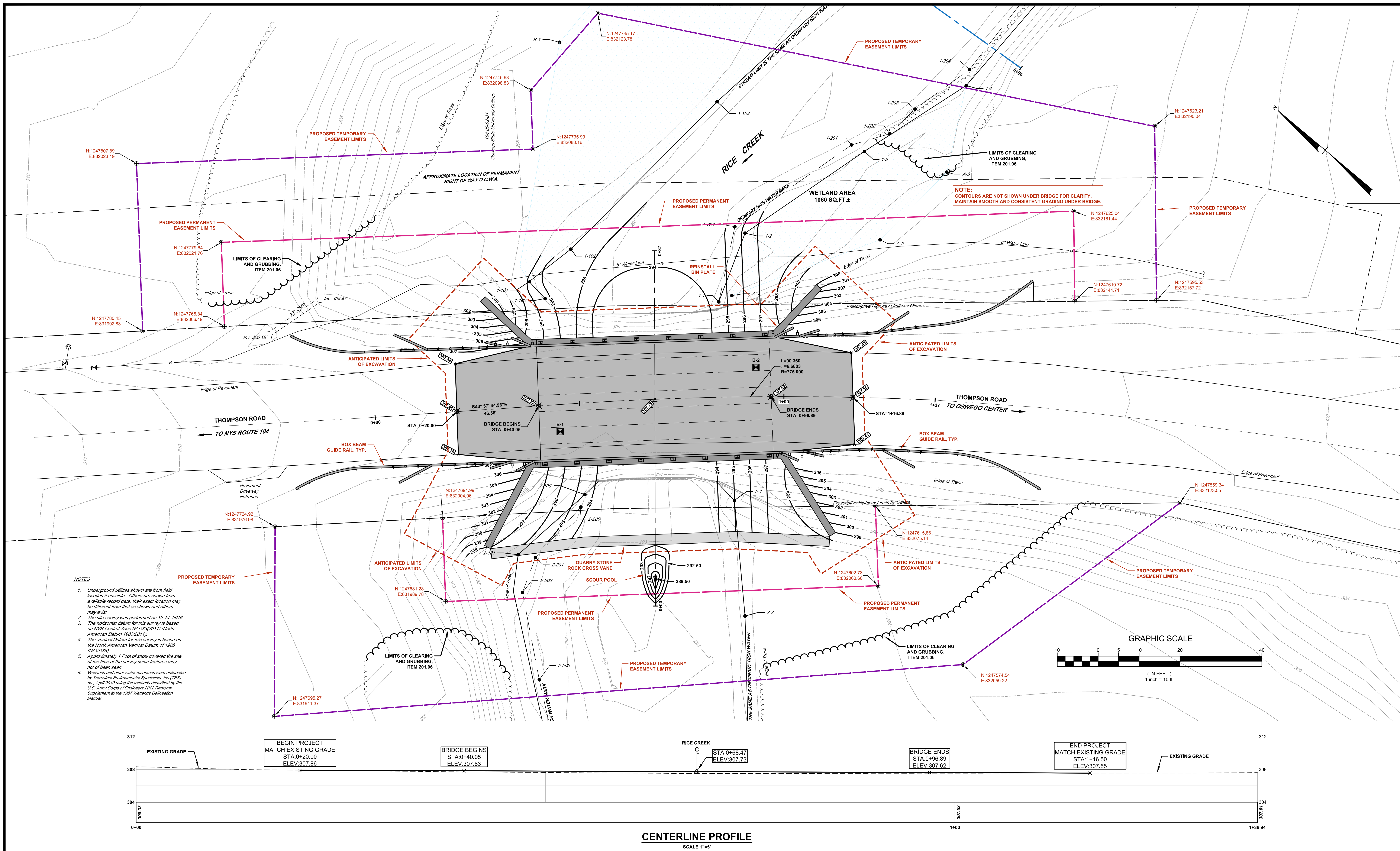
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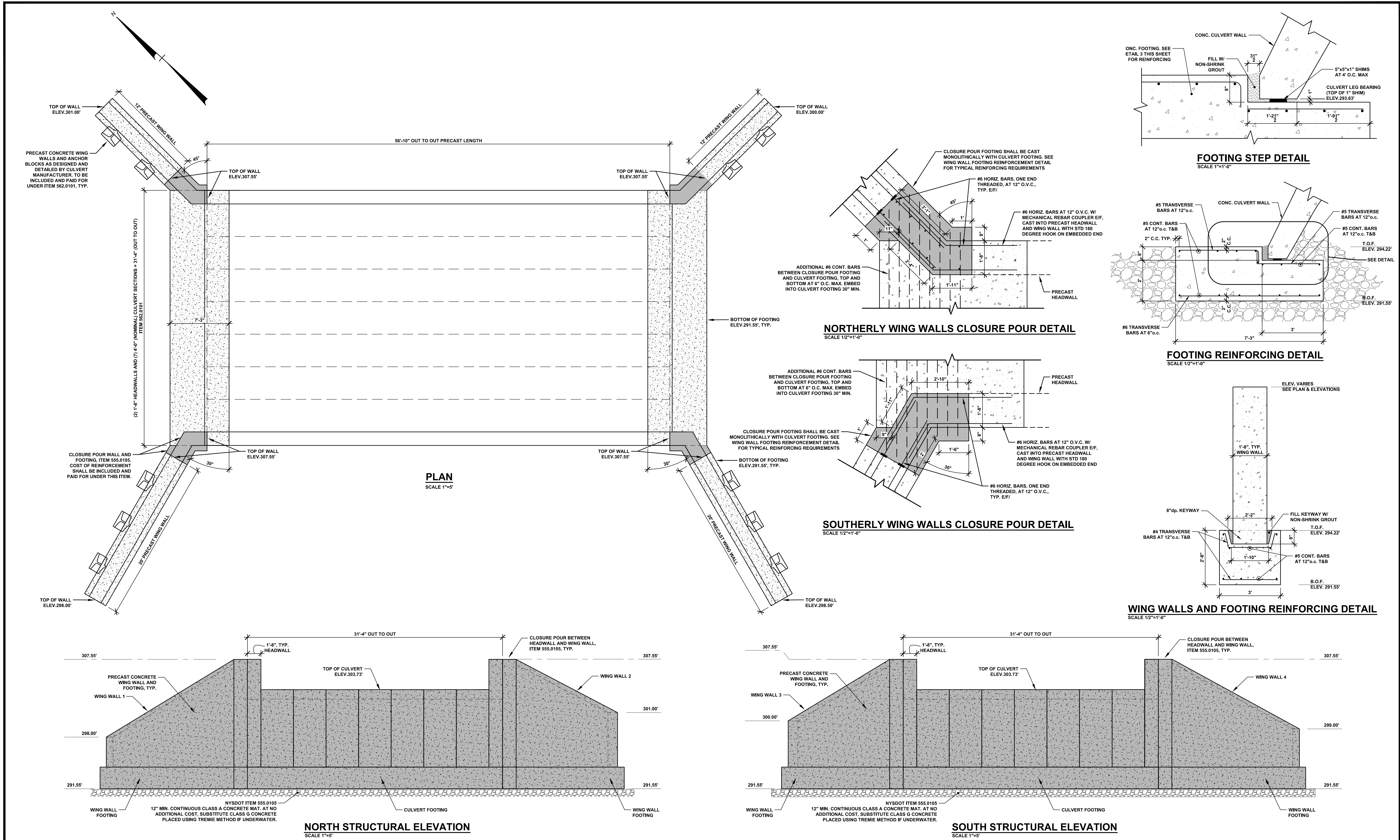
PLAN AND PROFILE
TOWN OF OSWEGO
REPLACEMENT OF THOMPSON ROAD BRIDGE
OVER RICE CREEK - BIN 2209140
COUNTY OF OSWEGO - STATE OF NEW YORK

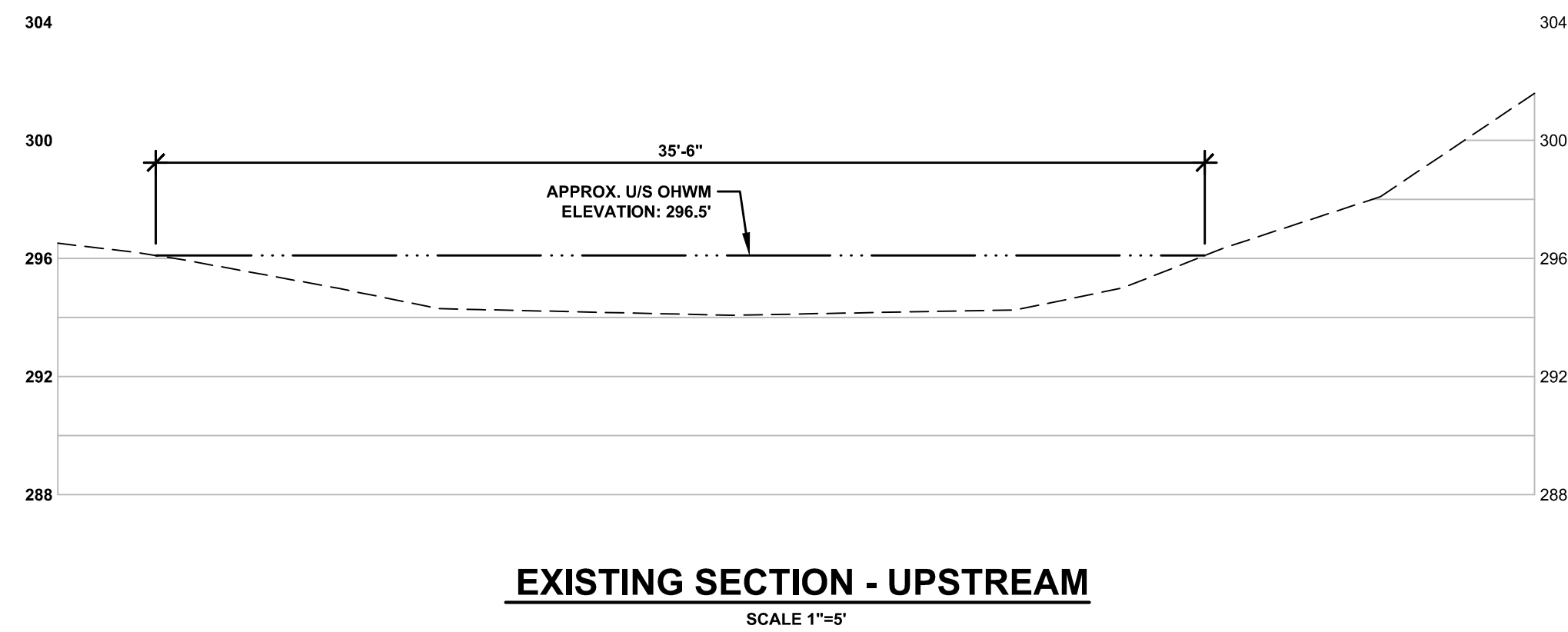
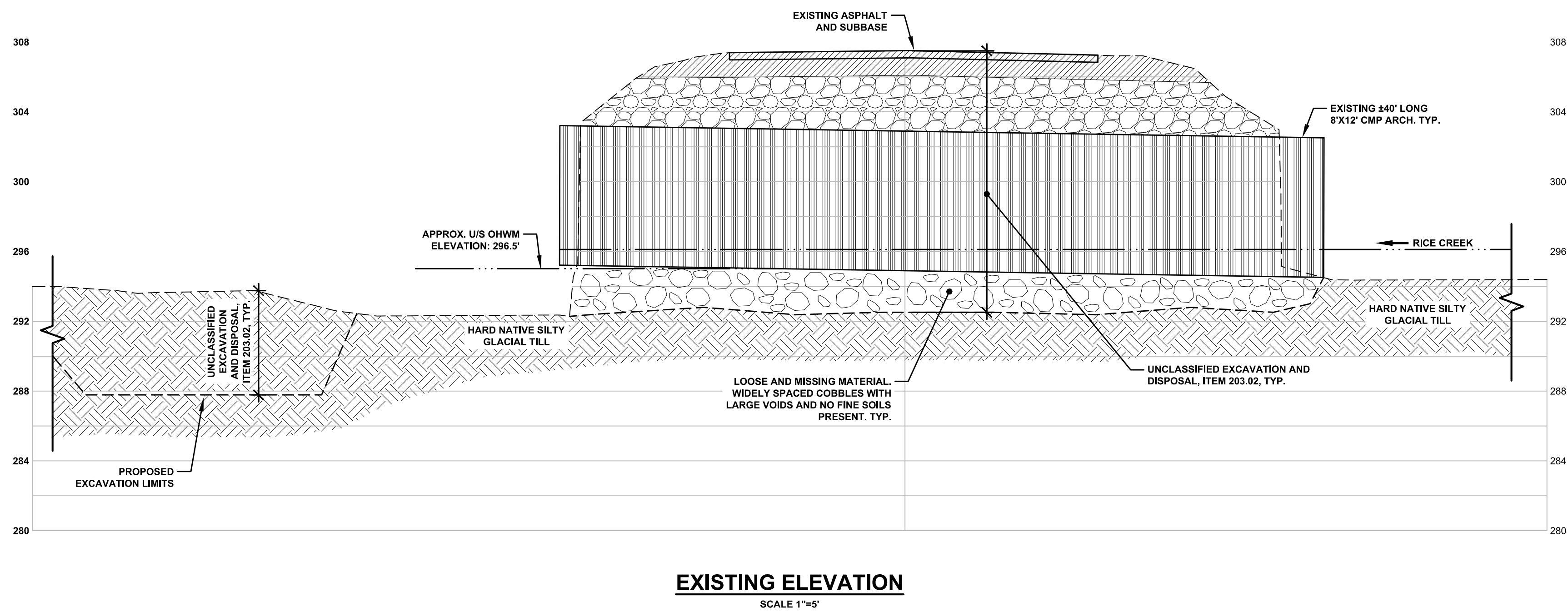
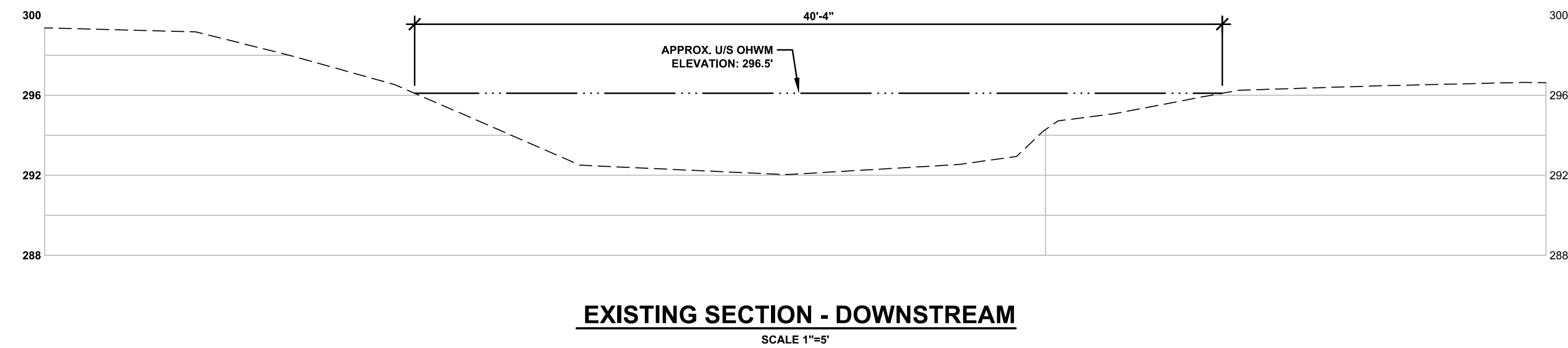
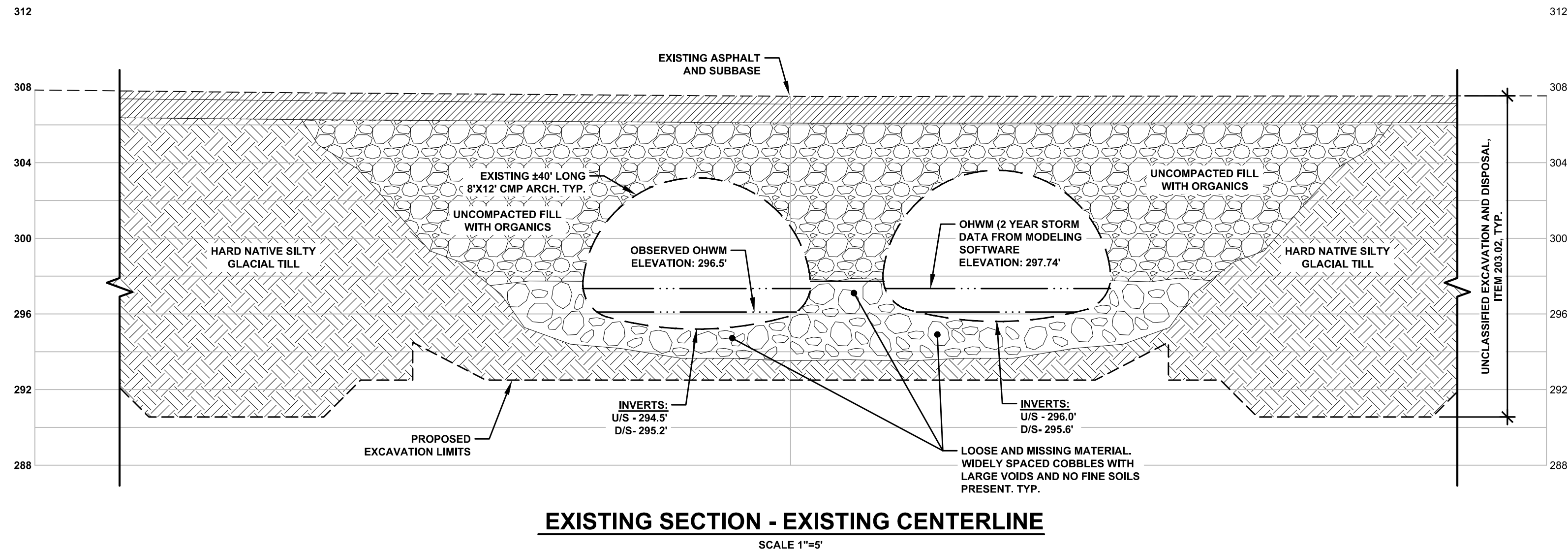
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OVER RICE CREEK - BIN 2209140
COUNTY OF OSWEGO - STATE OF NEW YORK

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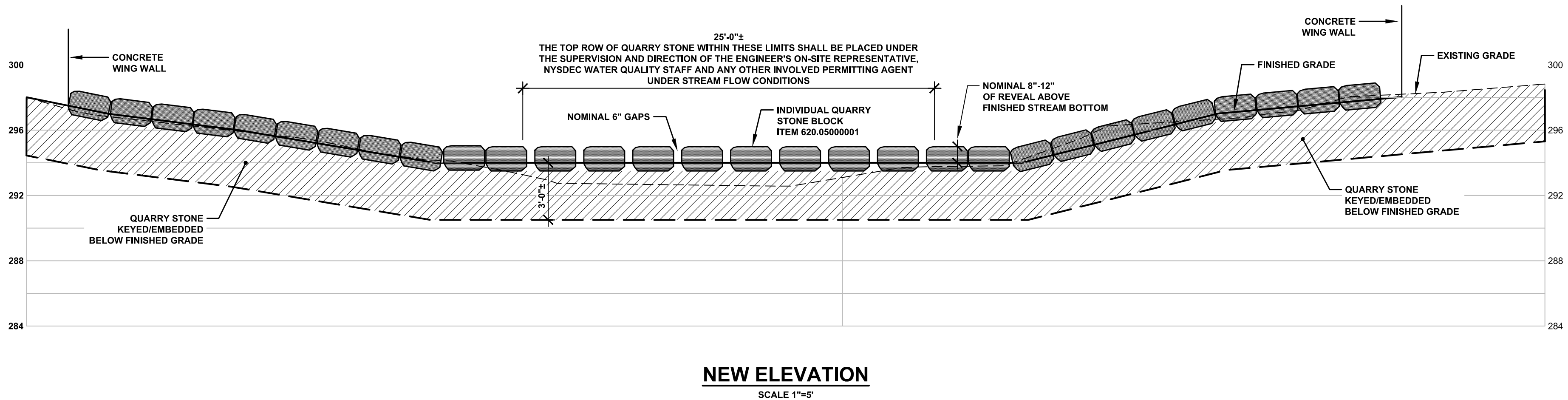
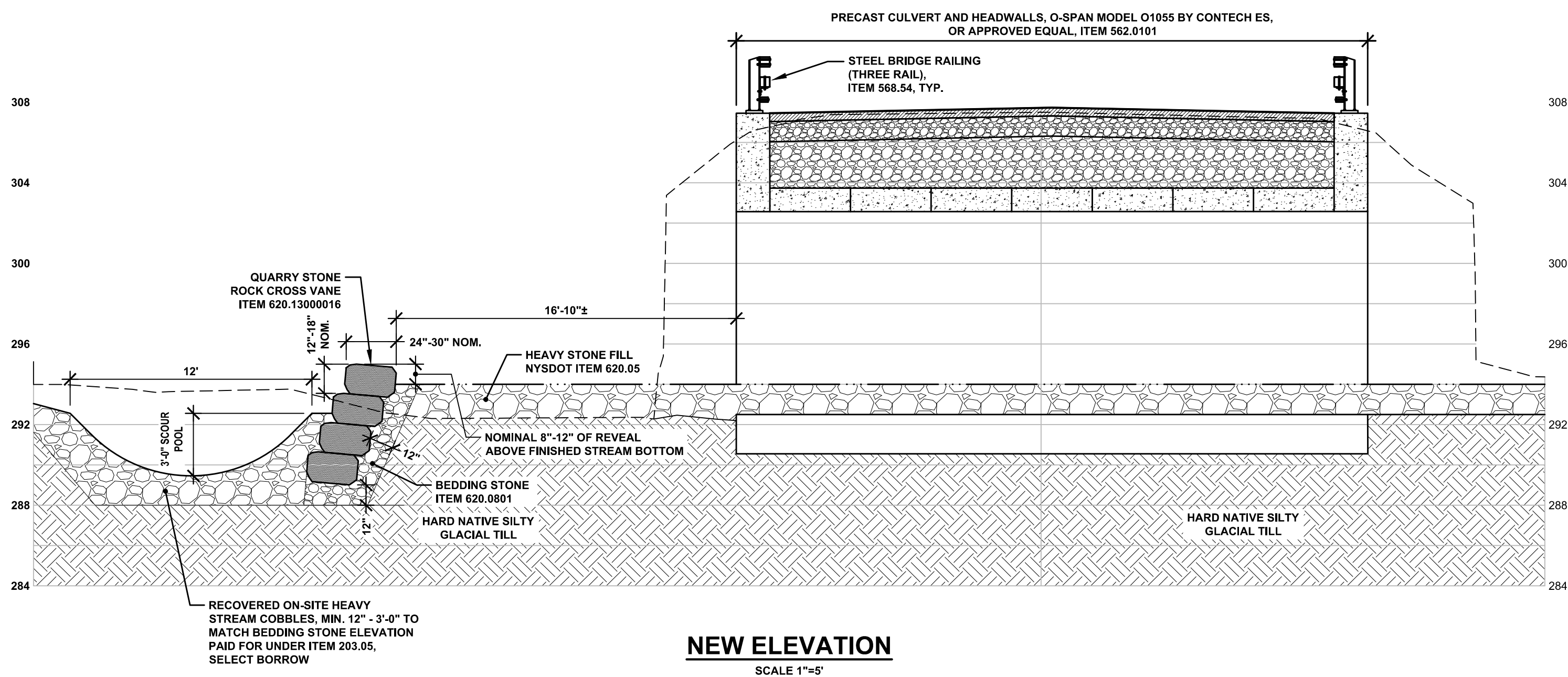
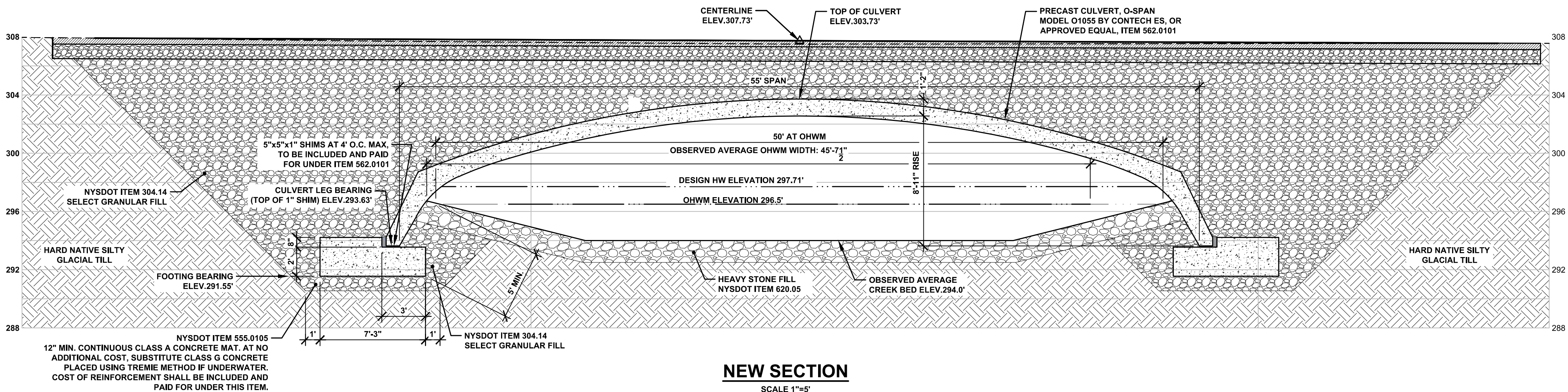
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EXISTING DOWNSTREAM ROCK CROSS VANE - PHOTO 1
CONTRACTOR SHALL INSTALL NEW QUARRY STONE ROCK CROSS VANE SIMILAR TO EXISTING ROCK VANES LOCATED IMMEDIATELY DOWNSTREAM FROM PROJECT SITE



EXISTING DOWNSTREAM ROCK CROSS VANE - PHOTO 2
CONTRACTOR SHALL INSTALL NEW QUARRY STONE ROCK CROSS VANE SIMILAR TO EXISTING ROCK VANES LOCATED IMMEDIATELY DOWNSTREAM FROM PROJECT SITE

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