

## RECORD PLANS

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PLANS FOR  
**BRIDGE SCOUR PROTECTION**  
**AT VARIOUS LOCATIONS**  
**ON THE NEW YORK STATE THRUWAY (I-90)**  
**BETWEEN MILEPOST 253.52 AND MILEPOST 297.20**  
**IN**  
**ONEIDA, MADISON & ONONDAGA COUNTIES**  
**SYRACUSE DIVISION**

27 SHEETS

TAS 98-22B

**TYPE OF CONSTRUCTION:**

STREAM CHANNEL SCOUR PROTECTION

**STANDARD SHEETS:**203-1, 203-2R1, 606-3R4, 607-2R2, 619-1R1,  
619-3R3, 619-4R2, 645-7, 645-8R1 & 645-13R1

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY  
 AND IN CONFORMITY WITH THE NEW YORK STATE DEPARTMENT OF  
 TRANSPORTATION STANDARD SPECIFICATIONS ADOPTED JANUARY 2, 1990  
 INCLUDING CURRENT ADDITIONS AND MODIFICATIONS, EXCEPT AS MODIFIED  
 ON THESE PLANS AND IN THE PROPOSAL.

**NOTES:**

**WARNING:** IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR  
 ANY PERSON UNLESS ACTING UNDER THE DIRECTION OF A LICENSED  
 PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THESE PLANS IN ANY  
 WAY. IF ALTERATIONS TO THESE PLANS ARE REQUIRED, THE ALTERATIONS  
 SHALL BE MADE IN ACCORDANCE WITH ARTICLE 145 - SUBSECTION 7209  
 OF THE NEW YORK STATE EDUCATION LAW.

CHANGES MADE, IF ANY, TO THESE PLANS AND RELATED CONTRACT  
 DOCUMENTS SINCE COMPLETION BY THE CONSULTING ENGINEER MAY BE  
 DETERMINED BY COMPARISON WITH SUCH PRELIMINARY PLANS AND RELATED  
 DOCUMENTS FILED AT THE THRUWAY DESIGN OFFICE OR THOSE FILED AT  
 THE OFFICE OF THE CONSULTING ENGINEER.

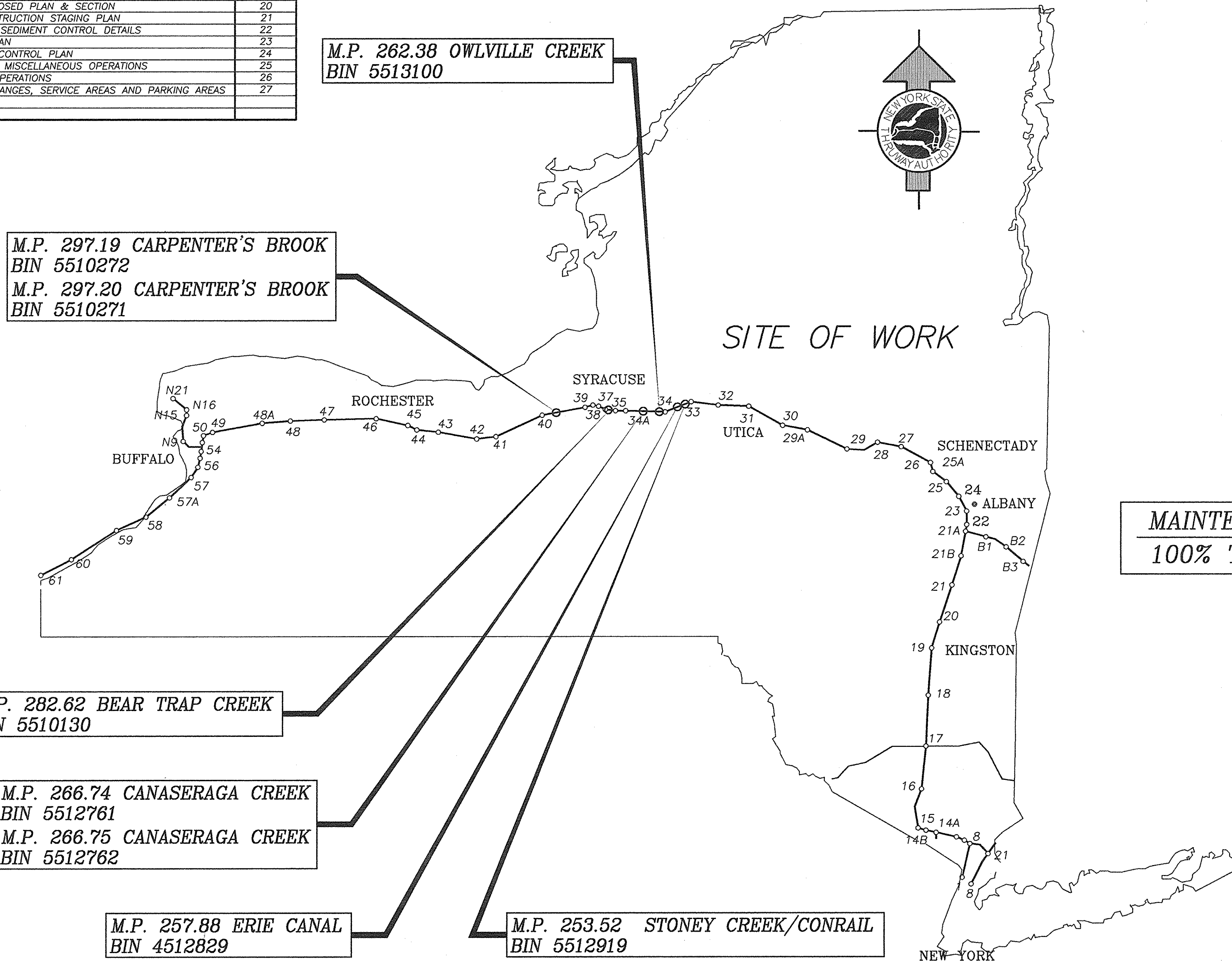
SIGNATURES HEREON HAVE BEEN AFFIXED BY PERSONS ACTING IN  
 THEIR OFFICIAL CAPACITY AS INDICATED.

**BRIDGE MAINTENANCE GUIDELINES**

UPON COMPLETION OF THIS PROJECT, THE BRIDGE STRUCTURES REPAIRED,  
 REHABILITATED OR RECONSTRUCTED HEREUNDER SHALL BE MAINTAINED IN  
 ACCORDANCE WITH THE CURRENT AASHTO MANUAL FOR BRIDGE MAINTENANCE,  
 AND THE NEW YORK STATE THRUWAY AUTHORITY MAINTENANCE DIRECTIVES:  
 MD 98-3 COMPREHENSIVE BRIDGE MANAGEMENT PROGRAM AND MD 95-5  
 BRIDGE INSPECTION PROGRAM.

SPECIAL MAINTENANCE REQUIREMENTS: NONE

**MAINTENANCE JURISDICTION**  
**100% THRUWAY AUTHORITY**



CONTRACTOR'S NAME:  
 ECONOMY PAVING CO. INC.  
 AWARD DATE: OCTOBER 22, 1998  
 COMPLETION DATE: JUNE 4, 1999  
 FINAL ACCEPTANCE DATE: JULY 9, 1999  
 INSPECTION FIRM'S NAME: KOSKI ENGINEERS, P.C.  
 RESIDENT ENG./EIC: CHARLES H. KINCAID  
 FINAL COST TOTAL: \$362,719.70

FISCAL SHARE  
 COST(S)  
 1 \$362,719.70

INSPECTION FIRM  
CONSULTANT STAMP:

RECOMMENDED BY:

*Dianne L. Dodds*  
 DIRECTOR, OFFICE OF FACILITIES DESIGN

8/10/98

RECOMMENDED BY:

*Pat Hurler*  
 DIRECTOR, OFFICE OF TRAFFIC ENGINEERING

8/1/98

RECOMMENDED BY:

*[Signature]*  
 DIRECTOR, OFFICE OF CONTRACTS AND CONSTRUCTION MANAGEMENT

8/1/98

RECOMMENDED BY:

*[Signature]*  
 SUPERINTENDENT OF THRUWAY MAINTENANCE

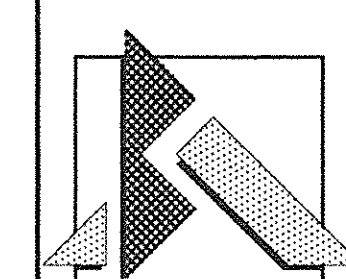
8/7/98

APPROVED BY:

*[Signature]*  
 CHIEF ENGINEER

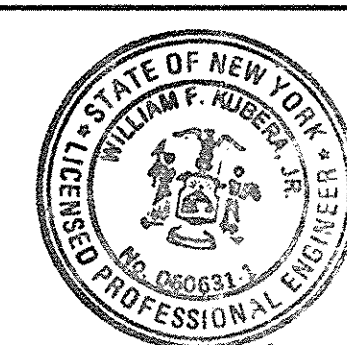
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PREPARED BY:



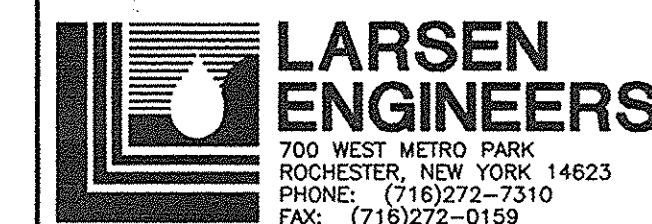
**BRYANT ASSOCIATES,**  
**PROFESSIONAL CORPORATION**  
 Engineers - Surveyors  
 Syracuse, New York

STAMP:



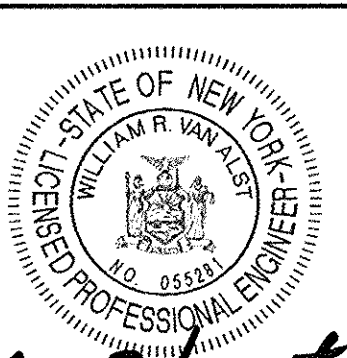
*William F. Ruben*  
 SIGNATURE DATE 7-16-98

PREPARED BY:



**LARSEN ENGINEERS**  
 700 WEST METRO PARK  
 ROCHESTER, NEW YORK 14623  
 PHONE: (716) 272-7310  
 FAX: (716) 272-0159

STAMP:



*William F. Ruben*  
 SIGNATURE DATE 7/14/98

TAS 98-22B

DRW 523

THRUWAY AUTHORITY PROGRAM DIRECTOR

PROJECT ENGINEER Antonio R. Mahalia, P.E.

REVIEWED BY

*[Signature]*  
*William F. Ruben*

*William F. Ruben*  
*Antonio R. Mahalia*



GENERAL NOTES

- DESIGN SPECIFICATIONS: CURRENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH ALL INTERIM SPECIFICATIONS AND MODIFICATIONS AND 1981 NEW YORK STATE STEEL CONSTRUCTION MANUAL, INCLUDING CURRENT ADDITIONS AND MODIFICATIONS, EXCEPT AS MODIFIED BY THE NEW YORK STATE THRUWAY AUTHORITY THRUWAY STRUCTURES DESIGN MANUAL – SECOND EDITION.
- MATERIAL AND CONSTRUCTION SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED JANUARY 2, 1990 INCLUDING CURRENT ADDENDA.
- RECORD PLANS: RECORD PLANS COVERING PREVIOUS WORK WILL BE AVAILABLE FOR REVIEW BY ALL PROSPECTIVE BIDDERS AT THE AUTHORITY HEADQUARTERS IN ALBANY PRIOR TO THE LETTING DATE; REFER TO CONTRACT(S) M.T. 52–14, M.T. 52–3, M.T. 50–3, O.T. 46–2, AND FAOT 50–8.
- THE CONTRACTOR WILL BE REQUIRED TO COORDINATE HIS WORK WITH OTHER CONTRACTORS AND AUTHORITY MAINTENANCE FORCES, AND HE SHALL SCHEDULE HIS OPERATIONS SO AS TO CAUSE A MINIMUM DISRUPTION TO TRAFFIC.
- SUBSURFACE EXPLORATIONS HAVE BEEN MADE FOR THIS PROJECT AT LOCATIONS INDICATED ON THE EXISTING PLANS. BORING LOGS AND OTHER SUBSURFACE INFORMATION MADE AVAILABLE FOR THE INSPECTION OF BIDDERS WERE OBTAINED WITH REASONABLE CARE AND RECORDED IN GOOD FAITH BY THE AUTHORITY.
- THE CONTRACTOR’S ATTENTION IS DIRECTED TO THE FACT THAT SPOIL AREAS FOR SURPLUS MATERIALS ARE AVAILABLE FOR THIS CONTRACT WITHIN THE AUTHORITY’S RIGHT–OF–WAY, AT MP 236.2 WB SHOULDER AND AT MP 247.4 WB SHOULDER. THE CONTRACTOR SHALL CONFIRM AVAILABILITY OF THE DISPOSAL SITES WITH THE EIC PRIOR TO DISPOSAL OF ANY SURPLUS MATERIALS AT EITHER SITE. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL & STATE REGULATIONS THAT APPLY TO THE AREA CHOSEN FOR THE DISPOSAL OF SURPLUS MATERIALS. ALL COSTS ASSOCIATED WITH THE USE OF THE DISPOSAL AREAS AND REMOVAL OF SPOIL MATERIAL SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.
- IF THE EXISTING STRUCTURE HAS A BRIDGE IDENTIFICATION NUMBER (B.I.N.) PLATE, MILEPOST PLATE, AND/OR HIGH WATER SIGNS ATTACHED, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROTECT THEM DURING CONSTRUCTION OR REMOVE AND REMOUNT THEM AFTER CONSTRUCTION IS COMPLETED, WITHOUT ANY ADDITIONAL COST TO THE AUTHORITY.
- THIS CONTRACT IS TO BE EXECUTED IN CONSTRUCTION STAGES AS INDICATED ON THE DRAWINGS.

RECONSTRUCTION NOTES

- THE CONTRACTOR SHALL EXAMINE AND VERIFY, IN THE FIELD, ALL CONDITIONS AND DIMENSIONS. DIMENSIONS OF THE EXISTING STRUCTURES SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION PLANS OR SUBSEQUENT REHABILITATION DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL SUCH FIELD MEASUREMENTS TO ASSURE PROPER FIT OF THE FINISHED WORK, AND THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS, AS APPROVED BY THE ENGINEER. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS MADE SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED FOR REFERENCE OF THE REVIEWER.
- THERE SHALL BE NO CLAIM AGAINST THE AUTHORITY MADE BY THE CONTRACTOR FOR WORK PERTAINING TO MODIFICATIONS, AS MAY BE REQUIRED, DUE TO ANY DIFFERENCE BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND DIMENSIONS ON THE CONTRACT PLANS. THE CONTRACTOR WILL BE PAID AT THE UNIT BID PRICE FOR THE ACTUAL QUANTITIES OF MATERIALS USED OR FOR THE WORK PERFORMED, AS INDICATED BY THE VARIOUS ITEMS IN THE CONTRACT.
- THE CONTRACTOR SHOULD NOTE THAT ADDITIONAL WORK MAY BE REQUIRED AS THE CONTRACT PROGRESSES, WHICH IS NOT SHOWN OR NOTED ON THE PLANS. THIS WORK SHALL BE PERFORMED BY THE CONTRACTOR, AS ORDERED BY THE ENGINEER, AND PAYMENT SHALL BE MADE AT THE BID PRICE FOR THE APPROPRIATE ITEMS.
- THE CONTRACTOR’S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGE TO THE EXISTING FACILITY CAUSED BY HIS OPERATIONS WHICH IS NOT INCLUDED AS PART OF THE INTENDED WORK. ALL DAMAGE TO THE EXISTING FACILITY WHICH IS NOT PART OF THE INTENDED WORK SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT COST TO THE AUTHORITY, AND TO THE SATISFACTION OF THE ENGINEER.
- SHOULDER AREAS DISTURBED BY THE CONTRACTOR, AS PART OF THE WORK TO BE PERFORMED UNDER THIS CONTRACT, SHALL BE RESTORED AS SPECIFIED AND TO THE SATISFACTION OF THE ENGINEER. ALL THE DISTURBED GRASS AREAS SHALL BE GRADED IN A MANNER APPROVED BY THE ENGINEER AND SEEDED AS SPECIFIED IN THE STANDARD SEEDING ITEM. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS IN THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.

- THE CONTRACTOR SHALL PROTECT HIS WORKERS AT ALL TIMES IN CONFORMANCE WITH APPLICABLE OSHA REGULATIONS.

REMOVAL, EXCAVATION AND BACKFILL NOTES

- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORTS, BRACING AND OTHER DEVICES REQUIRED OR DIRECTED BY THE ENGINEER TO PROTECT THE SAFETY OF THE ADJACENT STRUCTURES, ROADWAY AND UTILITIES.
- DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT DROP WASTE CONCRETE, DEBRIS OR OTHER MATERIAL TO A RAILROAD RIGHT–OF–WAY OR TO A STREAM. SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED. IF MATERIAL FALLS IN THESE AREAS IT SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR ON A REGULAR BASIS.
- THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS AND OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE UNIT BID PRICE OF THE APPROPRIATE ITEMS OF THE CONTRACT.
- CARE SHALL BE EXERCISED IN EXCAVATING THE LAST FOOT OF MATERIAL ADJACENT TO AN EXISTING STRUCTURE TO AVOID DISTURBING OR SOFTENING THE MATERIAL BELOW THE BOTTOM FOOTING ELEVATION. THE EXCAVATION SHALL BE PROGRESSED CONTINUOUSLY TO COMPLETION, BACKFILL MATERIAL PLACED AND COMPACTED WITHOUT DELAY. BACKFILL OF UNAUTHORIZED EXCAVATIONS BELOW OR BEYOND PAYMENT LINES WILL BE AT THE CONTRACTOR’S EXPENSE.
- CARE SHALL BE TAKEN TO RETAIN NATURAL GROWTH AND PREVENT DAMAGE TO TREES WITHIN AND OUTSIDE THE LIMITS OF CONSTRUCTION, AND NOT SCHEDULED FOR REMOVAL. ANY DAMAGE CAUSED TO THIS NATURAL GROWTH SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL CONDUCT HIS REMOVAL OPERATIONS TO THE SATISFACTION OF THE ENGINEER SO AS NOT TO UNDULY DISTURB UNDERLYING MATERIALS WHICH ARE TO REMAIN IN PLACE. 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 AUTHORITY, 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 AUTHORITY, THE DAMAGED MATERIAL SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- STREAM CONSERVATION: THE CONTRACTOR SHALL CONDUCT HIS/HER OPERATIONS TO THE SATISFACTION OF THE ENGINEER TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO ANY STREAM FROM POLLUTION BY DEBRIS, SEDIMENT OR OTHER FOREIGN MATERIAL, OR FROM THE MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. HE/SHE SHALL NOT RETURN DIRECTLY TO A STREAM, OR TO A DITCH IMMEDIATELY FLOWING INTO A STREAM, ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILIAR OPERATIONS WHICH COULD CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES. IF HE/SHE USES WATER FROM A STREAM, HE/SHE SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH LIFE DOWNSTREAM. THESE TEMPORARY MEASURES SHALL BE REMOVED AND THE AREA RESTORED AT THE COMPLETION OF WORK.
- COFFERDAMS WILL BE REQUIRED AT LOCATIONS SHOWN ON THE PLANS. IT IS THE CONTRACTOR’S RESPONSIBILITY TO COME UP WITH THE TYPE OF COFFERDAM. THE DESIGN FOR THE COFFERDAM IS TO BE DONE BY A LICENSED P.E. AS STATED IN N.Y.S.T.A. ADDENDUM NO. TA–(95), AND SUBMITTED AT LEAST 2 WKS. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION FOR THE ENGINEER’S APPROVAL.
- PROVIDING ACCESS TO THE CONSTRUCTION SITE AS INDICATED ON THE PLANS OR ANY OTHER MANNER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. HE/SHE MAY CONSTRUCT TEMPORARY ACCESS RAMPS FROM THE THRUWAY ALONG THE EMBANKMENT SLOPE TO GAIN ACCESS TO THE WORK AREA IN A MANNER SHOWN ON THE PLANS WITHIN THE THRUWAY’S R.O.W. HOWEVER IF THESE TEMP. ACCESS RAMPS DO NOT FIT WITHIN THE THRUWAY’S R.O.W., IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AN ALTERNATIVE AND SUBMIT PLANS TO THE E.I.C. AT LEAST TWO WEEKS PRIOR TO THE COMMENCEMENT OF WORK FOR HIS/HER APPROVAL. INSTALLATION OF ACCESS RAMPS SHALL NOT JEOPARDIZE THE STABILITY OF THE EXISTING THRUWAY EMBANKMENT. TEMPORARY SHEET PILING MAY BE REQUIRED. THE COST OF INSTALLATION AND REMOVAL OF ACCESS RAMPS INCLUDING TEMPORARY SHEETING SHALL BE INCLUDED UNDER ITEM 25619.9475XX. ASPHALT PAVEMENT MATERIAL SHALL NOT BE ALLOWED IN THE CONSTRUCTION OF ACCESS RAMPS.
- THE WATER LEVELS NOTED ON THE BORING LOGS FOR THESE STRUCTURES MAY NOT BE INDICATIVE OF ACTUAL WATER CONDITIONS AT THE TIME OF CONSTRUCTION. DEWATERING OF EXCAVATIONS MAY THEREFORE BE REQUIRED.
- WHERE A COFFERDAM IS USED COMPLETELY OR PARTIALLY AROUND AN EXCAVATION, THE COST OF DEWATERING THE ENTIRE EXCAVATION, REGARDLESS OF THE SOURCE OF THE WATER, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE COFFERDAM.

UTILITY NOTES

- LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, INDICATED AS EXISTING AND/OR TO BE CONSTRUCTED AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THEIR EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR’S RESPONSIBILITY TO CONDUCT HIS/HER OPERATIONS AND TAKE THE NECESSARY PRECAUTIONS TO PREVENT INTERFERENCE WITH OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION.
- IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, HE/SHE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CEASE HIS WORK OPERATION UNTIL SERVICE IS RESTORED.
- THE METHOD OF REMOVAL OF EXISTING ROADWAY OR SHOULDER PAVEMENT IN THE IMMEDIATE VICINITY OF UNDERGROUND UTILITIES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

- MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE COMPLIED WITH THROUGHOUT THE LENGTH AND DURATION OF THE CONTRACT IN ACCORDANCE WITH "THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND THE CONTRACT DOCUMENTS.
- DISTANCES SHOWN ARE APPROXIMATE ONLY AND MAY BE REVISED BY THE ENGINEER–IN–CHARGE TO MEET FIELD CONDITIONS (DRIVEWAYS, HIGHWAY ALIGNMENT, ETC.).
- THE SIGNING SHOWN IS A MINIMUM ONLY. ADDITIONAL SIGNING MAY BE REQUIRED TO MEET TRAFFIC AND/OR FIELD CONDITIONS.
- THE COST OF FURNISHING AND INSTALLING ALL SIGNS SHALL BE PAID FOR UNDER ITEM 15619.0201, CONSTRUCTION SIGNS.
- DURING NON–WORKING HOURS, ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED AT LEAST 30 FT. FROM THE EDGE OF THE PAVEMENT OR BEYOND THE DEFLECTION DISTANCE OF A GUIDE RAIL SYSTEM APPROVED BY THE ENGINEER.
- ALL PRIVATE VEHICLES SHALL BE PARKED OUTSIDE OF THE ROADWAY IN A SIMILIAR MANNER AS DESCRIBED IN NOTE 5.
- IF AREAS ARE TO BE LEFT WITHOUT GUIDE RAIL FOR AN EXTENDED PERIOD OF TIME AND THEY PREVIOUSLY HAD GUIDE RAIL, THEN A TEMPORARY CONCRETE BARRIER SHALL BE INSTALLED A.O.B.E. THE COST FOR INSTALLING THIS TEMPORARY BARRIER AND REMOVAL FOLLOWING COMPLETION OF WORK SHALL BE PAID UNDER ITEM 25619.9475XX – TEMPORARY ACCESS.
- IF THE CONTRACTOR ELECTS TO ACCESS THE SITE FROM A LOCATION OTHER THAN THE THRUWAY, IT IS HIS/HER RESPONSIBILITY TO GET A TEMPORARY OCCUPANCY PERMIT FROM THE PROPERTY OWNERS/AGENCIES AND PROVIDE ADEQUATE TRAFFIC CONTROL AND CONSTRUCTION SIGNS TO INFORM THE TRAVELING PUBLIC. THE CONTRACTOR IS REQUIRED TO SUBMIT THE PROPOSED TRAFFIC CONTROL PLANS TO THE E.I.C. FOR HIS APPROVAL.



*William R. VanAlst* 7/14/98  
William R. VanAlst, P.E. Date

DATE	DESCRIPTION	BY	SYM.

REVISIONS



**LARSEN ENGINEERS**  
700 WEST METRO PARK  
ROCHESTER, NEW YORK 14623-2678  
(716)272-7310 FAX (716)272-0159

NEW YORK STATE THRUWAY AUTHORITY  
DEPARTMENT OF MAINTENANCE AND ENGINEERING  
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT  
**BRIDGE SCOUR PROTECTION PLANS**

LOCATION OF PROJECT  
**M.P. 253.52 TO M.P. 297.20  
COUNTIES OF  
ONEIDA, MADISON, AND ONONDAGA**

TITLE OF DRAWING  
**GENERAL NOTES**



CONTRACT NUMBER:  
**TAS 98-22B**  
DATE:  
**JULY 1998**  
DRAWING NUMBER:  
**GN-1**

SPECIAL NOTE

- THE CONTRACTOR’S ATTENTION IS CALLED TO THE FACT THAT "SURVEY & STAKEOUT – ITEM 634.01" SHALL BE PROVIDED AT ALL THE SITES. PROPER ELEVATIONS OF THE PROPOSED STREAM CHANNELS SHOULD BE ESTABLISHED SO AS TO PROVIDE A STREAM CHANNEL WITH A SLOPE NOT LESS THAN 0.5%.



MISCELLANEOUS NOTES

- 1. THE CONTRACTOR IS ADVISED THAT ADDITIONAL "NOTES" WILL BE FOUND ON SUBSEQUENT SHEETS OF THE CONTRACT PLANS AND SUCH "NOTES", WHILE PERTAINING TO THE SPECIFIC SHEETS THEY ARE TO BE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.
- 2. NO ADDITIONAL PAYMENT WILL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLANS OR IN THE SPECIFICATIONS UNLESS PAYMENT IS SPECIFICALLY INDICATED BY ITEM NUMBER. THE COST OF WORK FOR WHICH NO PAYMENT ITEM IS INDICATED, SHALL BE INCLUDED IN THE UNIT PRICES BID FOR VARIOUS ITEMS OF THIS CONTRACT.
- 3. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THE AREA SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THOSE ITEMS.
- 4. IT WILL BE THE CONTRACTOR'S OBLIGATION AND RESPONSIBILITY TO USE METHODS AND EQUIPMENT WHICH WILL INSURE THE SATISFACTORY COMPLETION OF THE REQUIRED WORK.
- 5. PROTECTION OF THE PUBLIC: THE CONTRACTOR SHALL MAINTAIN AND PROTECT AUTHORITY TRAFFIC IN ACCORDANCE WITH ITEM 619.01, THE TRAFFIC CONTROL SHEETS AND PERTINENT PROVISIONS OF THE N.Y.S. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (1983 EDITION). THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF SECTION 107, LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC, OF THE STANDARD SPECIFICATIONS DATED JANUARY 2, 1990 INCLUDING CURRENT ADDITIONS AND MODIFICATIONS.
- 6. IF THE CONTRACTOR IS APPROVED TO PERFORM NIGHT TIME OPERATIONS, THE WORK AREA SHALL BE ILLUMINATED FOR PROPER INSPECTION, SAFETY AND PERFORMANCE OF WORK.
- 7. APPLICATIONS FOR NYSDEC PERMIT, WATER QUALITY CERTIFICATION, AND ARMY CORPS OF ENGINEERS' NATIONWIDE PERMIT FOR THE PROPOSED WORK HAVE BEEN MADE BY THE AUTHORITY. THE CONTRACTOR SHALL NOT COMMENCE ANY WORK UNTIL THESE PERMITS HAVE BEEN ISSUED BY THE AGENCIES. HE SHALL COMPLY WITH ALL THE TERMS AND CONDITIONS SPECIFIED IN THE PERMITS.
- 8. IN CASE THERE ARE ANY VOIDS UNDER THE CONCRETE FLOOR, THE CONTRACTOR IS TO PUMP GROUT INTO THE VOID. THE COST WILL BE INCLUDED UNDER VARIOUS ITEMS IN THIS CONTRACT.
- 9. FINISHED CHANNEL SIDE SLOPES SHALL BE 2:1 MAX.
- 10. ANY SCOUR HOLES NOT SHOWN SHALL BE FILLED WITH MEDIUM OR HEAVY STONE A.O.B.E.
- 11. THE INSTALLATION OF STONE FILL SHALL BE ACROSS THE ENTIRE CHANNEL TO A MINIMUM OF ONE FOOT ABOVE THE 500 YEAR WATER SURFACE ELEVATION OR TO THE TOP OF BANK, WHICHEVER IS LESS.
- 12. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT AND MAINTAIN ALL EXISTING DITCH LINES AND DRAINAGE SYSTEMS WITHIN THE PROJECT AREA.
- 13. COFFERDAMS, DEWATERING, AND STAGING OF WORK TO MAINTAIN FLOW AND CONTROL OF SILT DURING CONSTRUCTION MUST BE MAINTAINED, UNDER ITEM 552.07nn.
- 14. ALL DEBRIS REMOVED SHALL BE PAID FOR UNDER ITEM 201.0601 - CLEARING & GRUBBING.

LEGEND

- BORING LOCATION
- STONE FILL
- COFFERDAM
- ORDINARY HIGH WATER ELEV. (OHW)
- EDGE OF WATER
- TOP OF BANK
- GRAVEL DRIVE

WORK TO BE DONE - TYPICAL FOR THE FOLLOWING SITES:

THE FOLLOWING IS A GENERAL DESCRIPTION OF THE WORK TO BE DONE UNDER THIS CONTRACT. THIS LIST IS INTENDED TO GIVE THE CONTRACTOR A GENERAL DESCRIPTION OF THE WORK INVOLVED IN THIS CONTRACT AND IS NOT A COMPLETE LISTING OF ALL WORK TO BE DONE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS EVEN THOUGH NOT SPECIFICALLY MENTIONED IN THIS LIST.

M.P. 253.52 - STONEY CREEK/CONRAIL

- 1. IMPLEMENT CONSTRUCTION WARNING SIGNS AND TRAFFIC CONTROL DEVICES FOR SHOULDER CLOSURE AS NECESSARY AND IN ACCORDANCE WITH THE NYMUTCD AND THE TRAFFIC CONTROL PLAN.
- 2. IF NECESSARY, UPGRADE EXISTING GRAVEL DRIVE PRIOR TO ACCESSING FROM SHOULDERS TO THE SITE WITHIN THE EXISTING R.O.W. IN ACCORDANCE WITH THE PLANS, A.O.B.E.
- 3. PERFORM EXCAVATION OPERATION AS SHOWN ON THE PLANS, OR A.O.B.E.
- 4. INSTALL GEOTEXTILE BEDDING AND STONE FILL TO THE LIMITS SHOWN ON THE PLANS.
- 5. REMOVE ACCESS RAMPS AS NECESSARY AND RESTORE DITCH LINES TO ORIGINAL GRADES, A.O.B.E.
- 6. CLEAN UP ENTIRE WORK SITE.
- 7. REMOVE ALL TRAFFIC CONTROL OPERATIONS.

M.P. 257.88 THROUGH 297.19

PRE-STAGE I CONSTRUCTION:

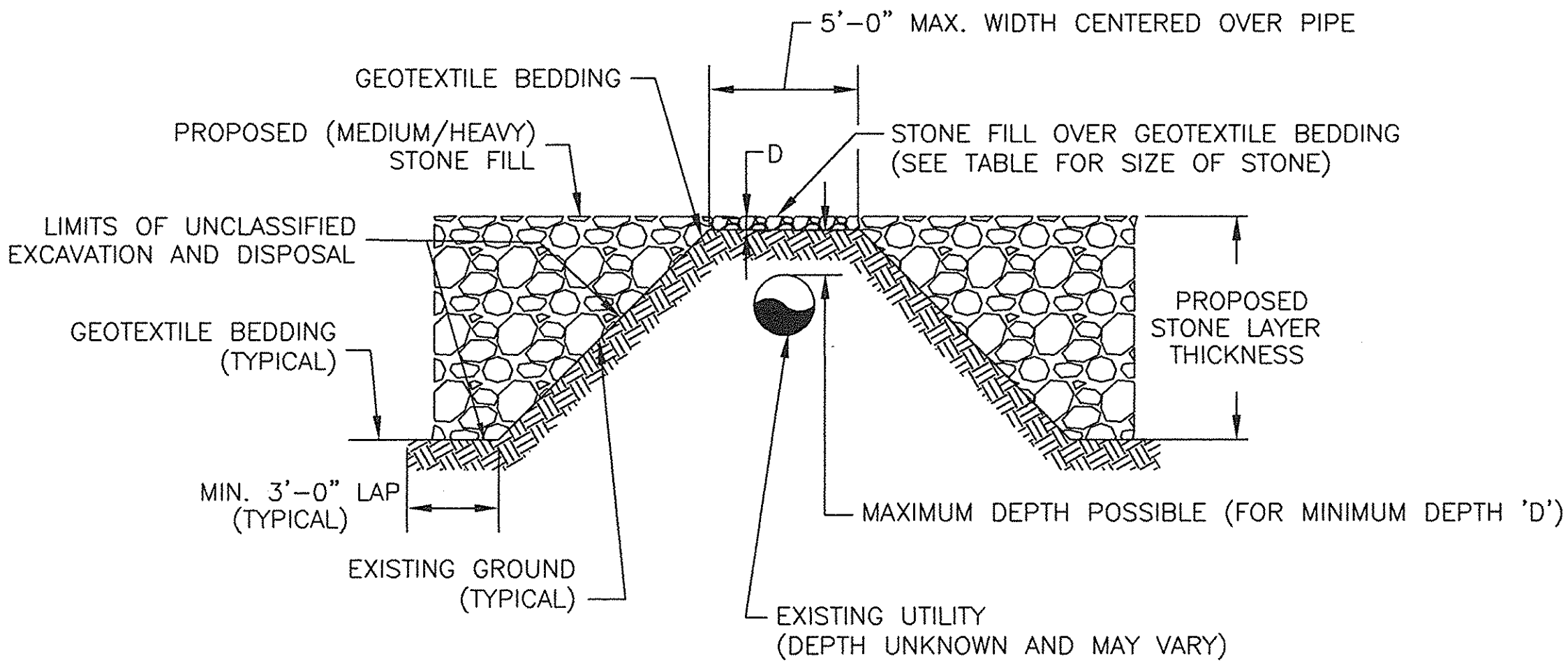
- 1. IMPLEMENT CONSTRUCTION WARNING SIGNS AND TRAFFIC CONTROL DEVICES FOR SHOULDER CLOSURE AS NECESSARY AND IN ACCORDANCE WITH THE NYS MUTCD AND THE TRAFFIC CONTROL PLAN.
- 2. INSTALL ACCESS RAMPS FROM SHOULDERS TO THE SITE WITHIN THE EXISTING R.O.W. AND IN ACCORDANCE WITH THE PLANS A.O.B.E.
- 3. REMOVE ALL DEBRIS

STAGE I CONSTRUCTION:

- 1. INSTALL COFFERDAM AS INDICATED ON THE PLANS.
- 2. PERFORM EXCAVATION OPERATION AS SHOWN ON THE PLAN, OR A.O.B.E.
- 3. INSTALL GEOTEXTILE BEDDING AND STONE FILL TO THE LIMITS SHOWN ON THE PLANS.
- 4. PREPARE FOR STAGE II CONSTRUCTION.

STAGE II CONSTRUCTION:

- 1. INSTALL COFFERDAM AS INDICATED ON THE PLANS.
- 2. PERFORM EXCAVATION OPERATION AS SHOWN ON THE PLANS, OR A.O.B.E.
- 3. INSTALL GEOTEXTILE BEDDING AND STONE FILL TO THE LIMITS SHOWN ON THE PLANS.
- 4. REMOVE ALL COFFERDAMS.
- 5. REMOVE ACCESS RAMPS AS NECESSARY AND RESTORE DITCH LINES TO ORIGINAL GRADES, A.O.B.E.
- 6. CLEAN UP ENTIRE WORK SITE.
- 7. REMOVE ALL TRAFFIC CONTROL OPERATIONS.



STONE FILL DETAIL AT UTILITY STREAM CROSSING

NTS

STONE SIZE REQUIRED	IF 'D' IS
FINE STONE	8">D>3"
LIGHT STONE	13">D>9"
MEDIUM STONE	23">D>14"
HEAVY STONE	- D>23"

DEPTH OF EXISTING PIPE AT THESE LOCATIONS HAVE TO BE OBTAINED FROM THE UTILITY OWNERS PRIOR TO THE CONSTRUCTION.

DATE	DESCRIPTION	BY	SYM.
------	-------------	----	------

REVISIONS



NEW YORK STATE THRUWAY AUTHORITY  
DEPARTMENT OF MAINTENANCE AND ENGINEERING  
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT  
BRIDGE SCOUR PROTECTION PLANS

LOCATION OF PROJECT  
M.P. 253.52 TO M.P. 297.20  
COUNTIES OF  
ONEIDA, MADISON, AND ONONDAGA

TITLE OF DRAWING

GENERAL NOTES & LEGEND



CONTRACT NUMBER:  
TAS 98-22B  
DATE:  
JULY 1998  
DRAWING NUMBER:  
GN-2

Professional Engineer Seal for William R. VanAlst, P.E., No. 08583, dated 7/14/98.

ESTIMATE OF QUANTITIES

STRUCTURE			STONEY CREEK/CONRAIL M.P. 253.52		ERIE CANAL M.P. 257.88		OWLVILLE CREEK M.P. 262.38		CANASERAGA CREEK M.P. 266.74/266.75		BEAR TRAP CREEK M.P. 282.62		CARPENTER'S BROOK M.P. 297.19/297.20		PROJECT TOTALS	
ITEM NO.	DESCRIPTION	UNIT	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL
201.0601	CLEARING AND GRUBBING	LS	NEC	45.00	NEC	25.00	NEC	5.00	NEC	5.00	NEC	10.00	NEC	10.00	NEC	100.00
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	2175	1869.58	1200	1694.22	270	277.64	225	223.89	590	576.76	475	556.76	4935	5198.85
207.01	GEOTEXTILE BEDDING	SY	2450	2121.95	1550	1262.67	510	337.22	315	264.89	975	890.89	720	694.17	6520	5571.79
209.0402	CHECK DAM (HAY/STRAWBALE)	LF	-	22.00	-	50.00	54	-	18	-	18	-	36	40.00	126	112.00
209.05	HAYBALE/STRAWBALE	LF	300	-	-	-	-	12.00	-	8.00	-	-	-	-	300	20.00
209.08	SILT FENCE	LF	160	13.00	135	69.00	110	16.00	45	40.00	170	20.00	90	-	710	158.00
304.06	SUBBASE COURSE, OPTIONAL TYPE	CY	45	47.88	-	-	-	-	-	-	-	-	-	-	45	47.88
552.05	SAFE OPERATION SHEET PILING	SF	-	-	-	-	-	-	-	-	1470	-	-	-	1470	-
552.0701	COFFERDAMS (WATER DISCHARGE CONTROL)	EA	-	-	4	4.00	-	-	-	-	-	-	-	-	4	4.00
552.0702	COFFERDAMS (WATER DISCHARGE CONTROL)	EA	-	-	-	-	4	4.00	-	-	-	-	-	-	4	4.00
552.0703	COFFERDAMS (WATER DISCHARGE CONTROL)	EA	-	-	-	-	-	-	2	2.00	-	-	-	-	2	2.00
552.0704	COFFERDAMS (WATER DISCHARGE CONTROL)	EA	-	-	-	-	-	-	-	-	2	2.00	-	-	2	2.00
552.0705	COFFERDAMS (WATER DISCHARGE CONTROL)	EA	-	-	-	-	-	-	-	-	-	-	4	4.00	4	4.00
25607.9405	REMOVE, DISPOSE, AND INSTALL NEW FENCE	LF	-	-	-	-	70	-	-	-	-	-	35	-	105	-
619.01	BASIC MAINTENANCE AND PROTECTION OF TRAFFIC	LS	NEC	-	NEC	-	NEC	-	NEC	-	NEC	-	NEC	-	NEC	100.00
15619.0201	CONSTRUCTION SIGNS	LS	NEC	-	NEC	-	NEC	-	NEC	-	NEC	-	NEC	-	NEC	100.00
619.0303	FLASHING ARROW BOARDS	LS	NEC	-	NEC	-	NEC	-	NEC	-	NEC	-	NEC	-	NEC	-
25619.947501	TEMPORARY ACCESS RAMP	LS	-	-	NEC	100.00	-	-	-	-	-	-	-	-	NEC	100.00
25619.947502	TEMPORARY ACCESS RAMP	LS	-	-	-	-	NEC	100.00	-	-	-	-	-	-	NEC	100.00
25619.947503	TEMPORARY ACCESS RAMP	LS	-	-	-	-	-	-	NEC	100.00	-	-	-	-	NEC	100.00
25619.947504	TEMPORARY ACCESS RAMP	LS	-	-	-	-	-	-	-	-	NEC	100.00	-	-	NEC	100.00
25619.947505	TEMPORARY ACCESS RAMP	LS	-	-	-	-	-	-	-	-	-	-	NEC	100.00	NEC	100.00
620.04	STONE FILLING (MEDIUM)	CY	2150	1619.58	-	-	135	105.00	-	-	590	606.02	-	-	2875	2330.60
620.05	STONE FILLING (HEAVY)	CY	-	-	1200	1147.11	175	206.28	225	223.89	-	-	475	528.66	2075	2105.94
634.01	SURVEY AND STAKEOUT	LS	NEC	45.00	NEC	25.00	NEC	5.00	NEC	5.00	NEC	10.00	NEC	10.00	NEC	100.00
25637.060102	ENGINEER'S OFFICE - TYPE B	MO	2	-	2	-	2	-	2	-	2	-	2	-	12	7.00
25697.01	INTERIM PAYMENTS	D-C	0	-	0	-	0	-	0	-	0	-	0	-	0	-
25699.04	MOBILIZATION	LS	NEC	-	NEC	-	NEC	-	NEC	-	NEC	-	NEC	-	NEC	100.00
900.9822	UTILIZATION OF EXISTING STONE - STONY CREEK	CY	-	250.00	-	-	-	-	-	-	-	-	-	-	-	250.00



8/5/99	AS BUILT REVISION	CHK	△
DATE	DESCRIPTION	BY	SYM.

REVISIONS

**LARSEN ENGINEERS**  
700 WEST METRO PARK  
ROCHESTER, NEW YORK 14623-2678  
(716)272-7310 FAX (716)272-0159

NEW YORK STATE THRUWAY AUTHORITY  
DEPARTMENT OF MAINTENANCE AND ENGINEERING  
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT  
**BRIDGE SCOUR PROTECTION PLANS**

LOCATION OF PROJECT  
**M.P. 253.52 TO M.P. 297.20  
COUNTIES OF  
ONEIDA, MADISON, AND ONONDAGA**

TITLE OF DRAWING  
**ESTIMATE OF QUANTITIES**

*William R. VanAlst* 7/14/98  
William R. VanAlst, P.E. Date

	CONTRACT NUMBER: <b>TAS 98-22B</b>
	DATE: <b>JULY 1998</b>
	DRAWING NUMBER: <b>EQ-1</b>

CHECKED BY: J.D.B.

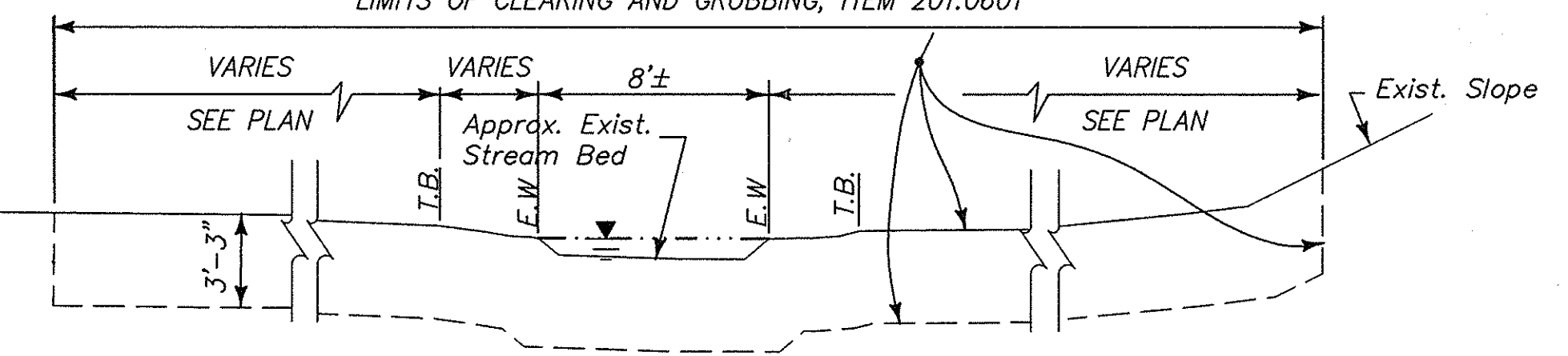
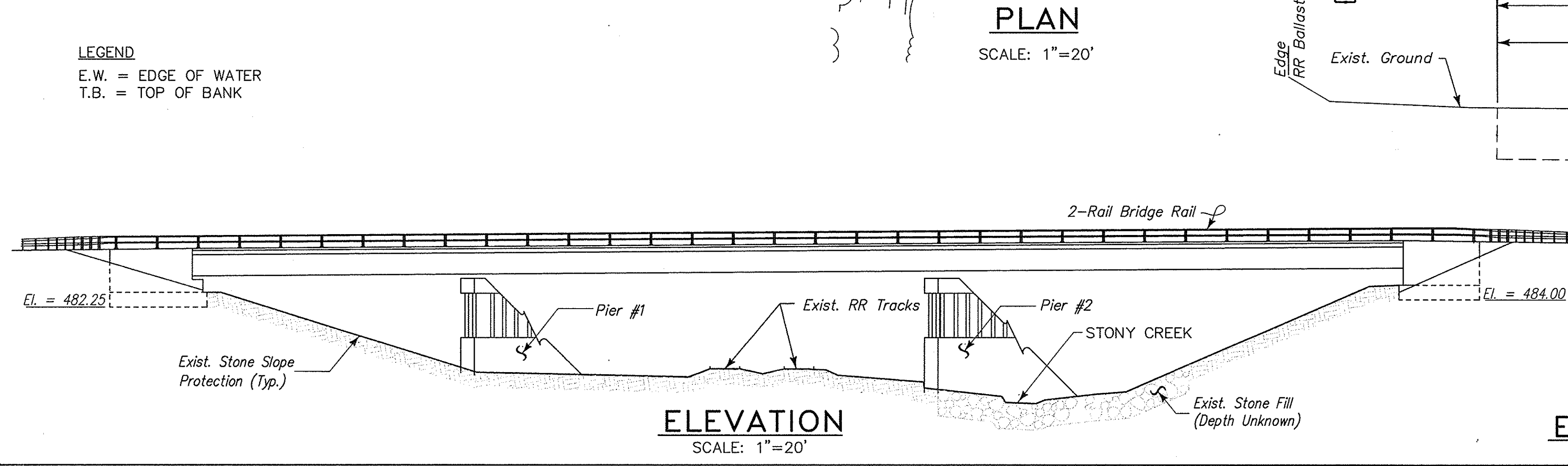
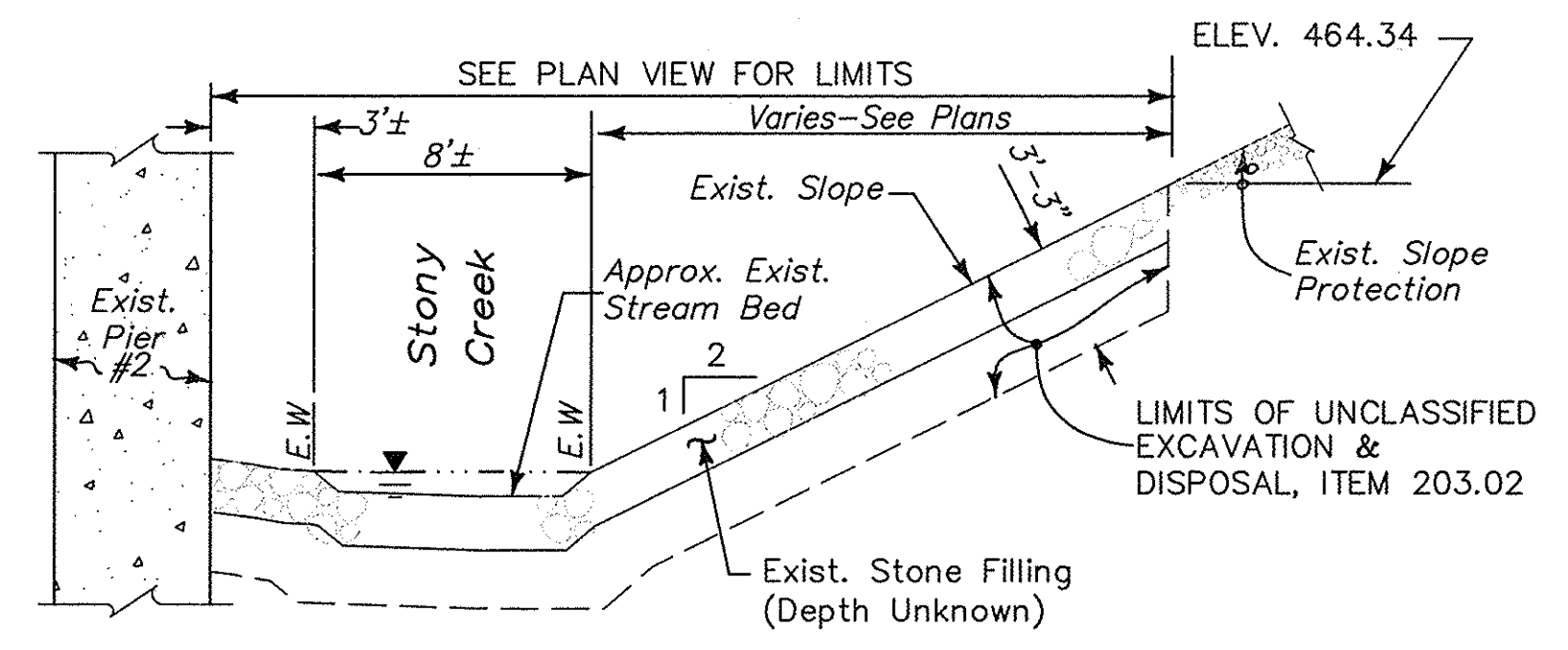
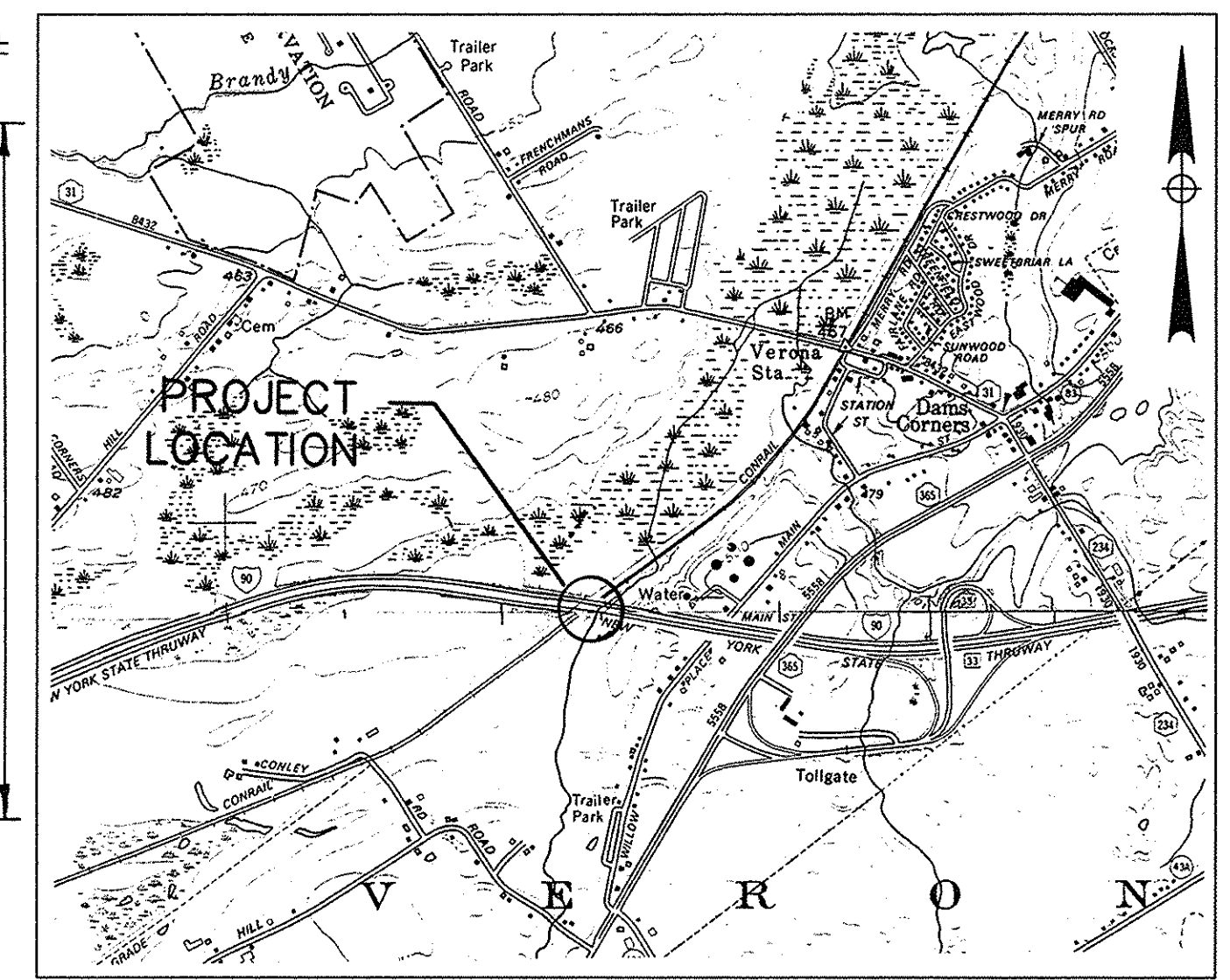
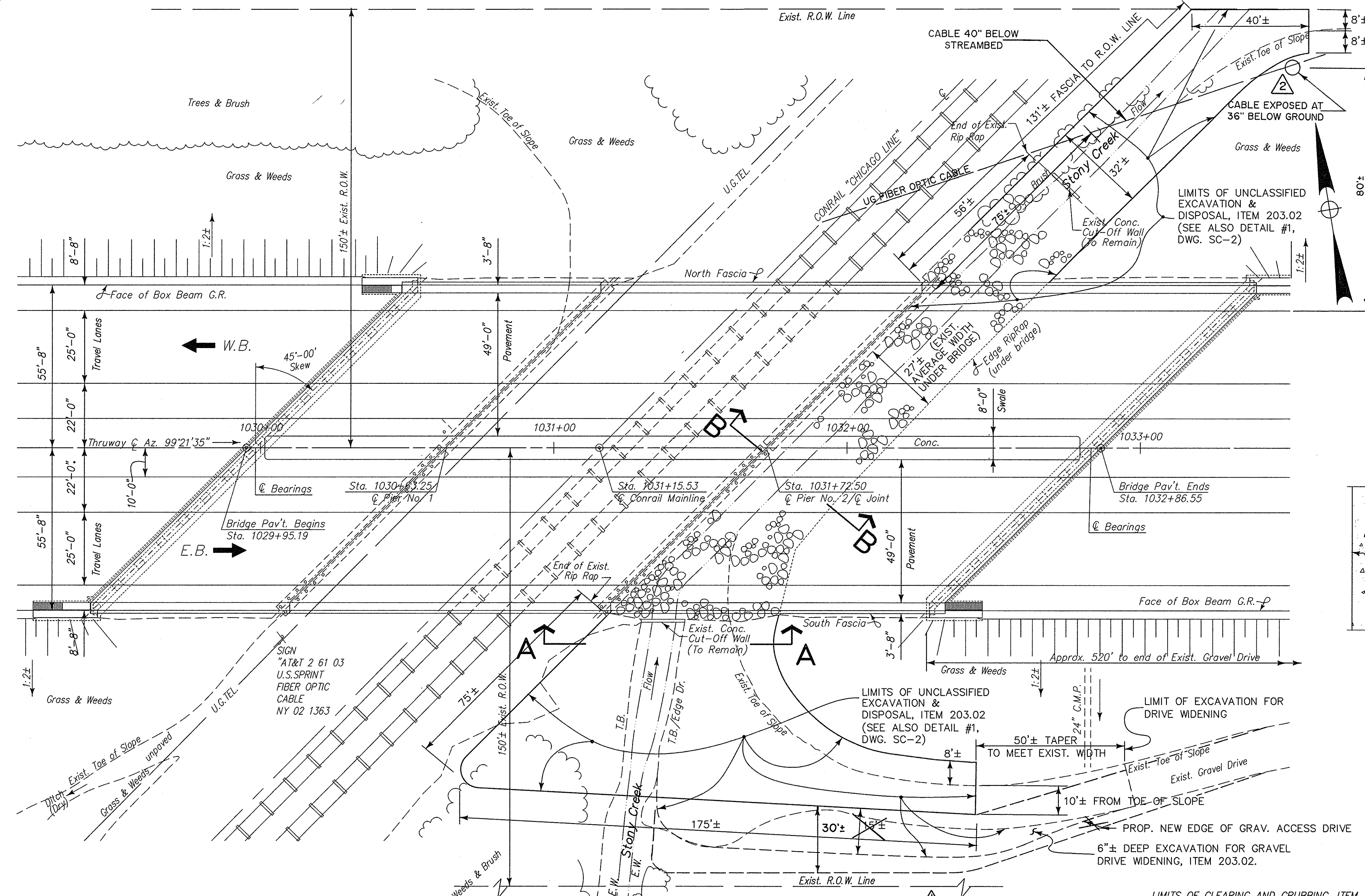
DRAFTED BY: J.W.T.

DESIGNED BY: R.D.P.

IN CHARGE OF: W.R.V.



CHECKED BY: ANTONIO R. MALAKIA  
DRAFTED BY: M.L. WAYSON/E.A. O'NEIL  
DESIGNED BY: E.A. O'NEIL  
IN CHARGE OF: ANTONIO R. MALAKIA  
B0706-A SCOUR PROTECTION SC-1.DWG 8/2/98 EAO WFO "PAGE"



Seal of William F. Kubera, Jr., P.E.  
William F. Kubera, Jr., P.E.  
8-3-98  
Date

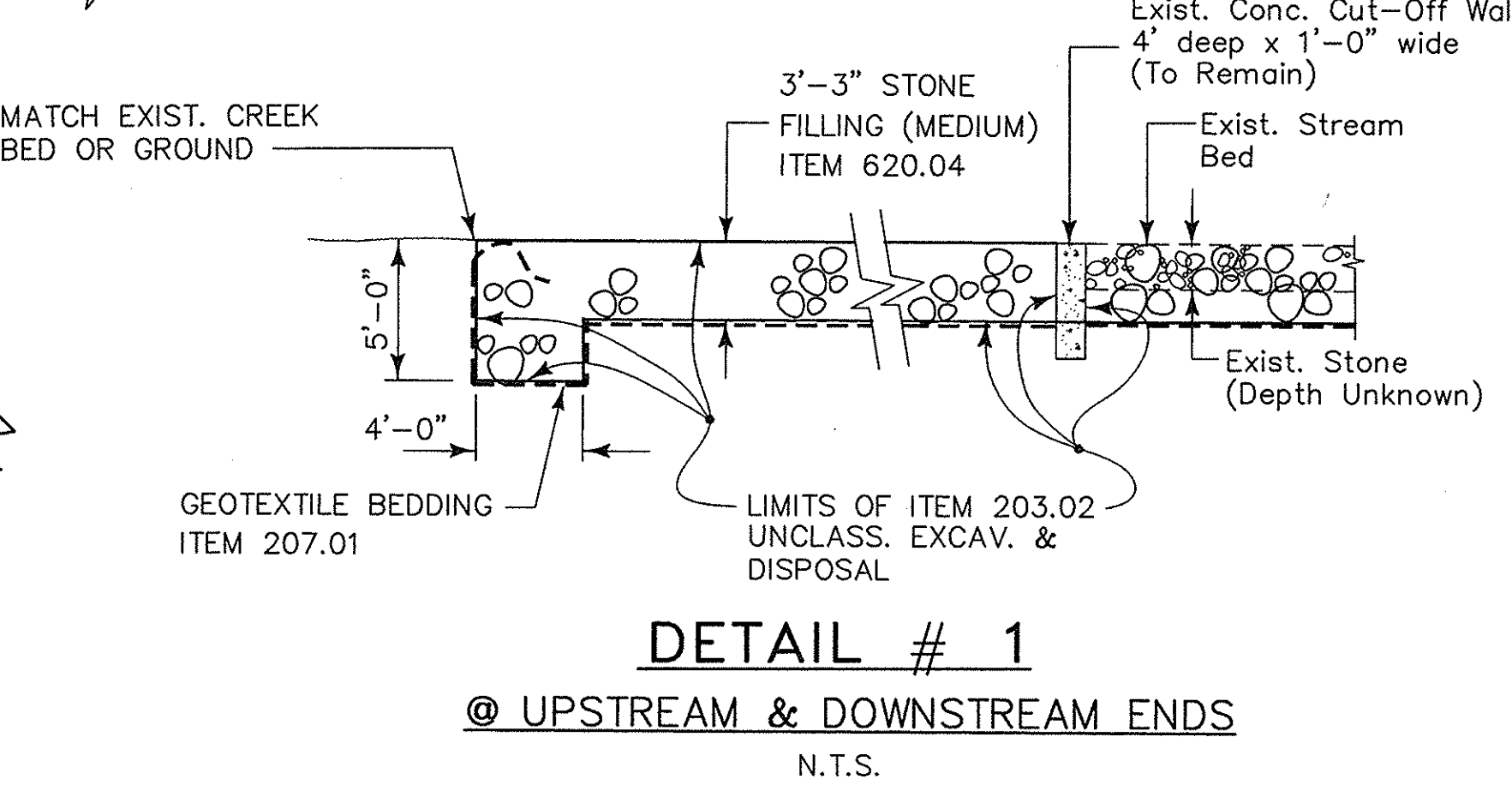
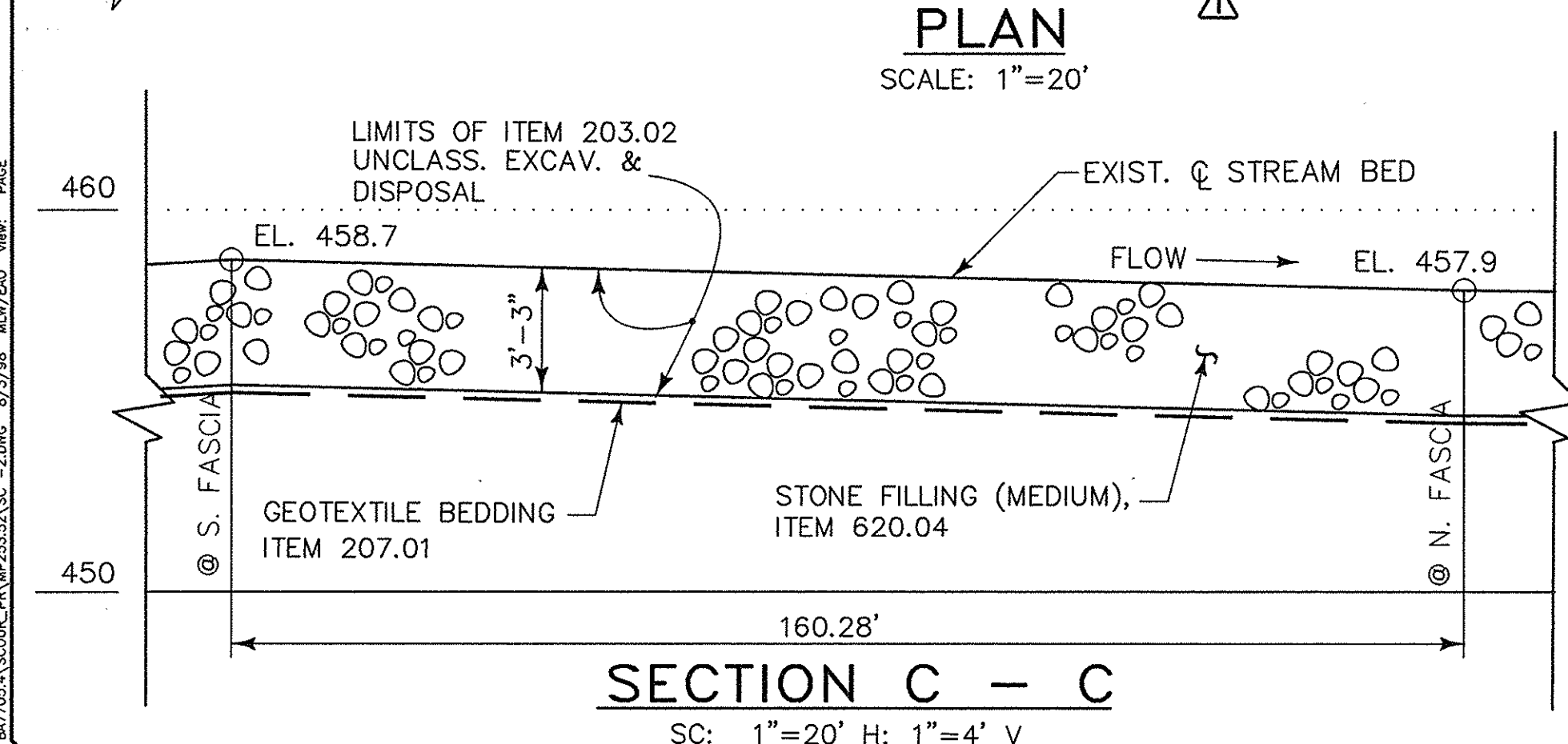
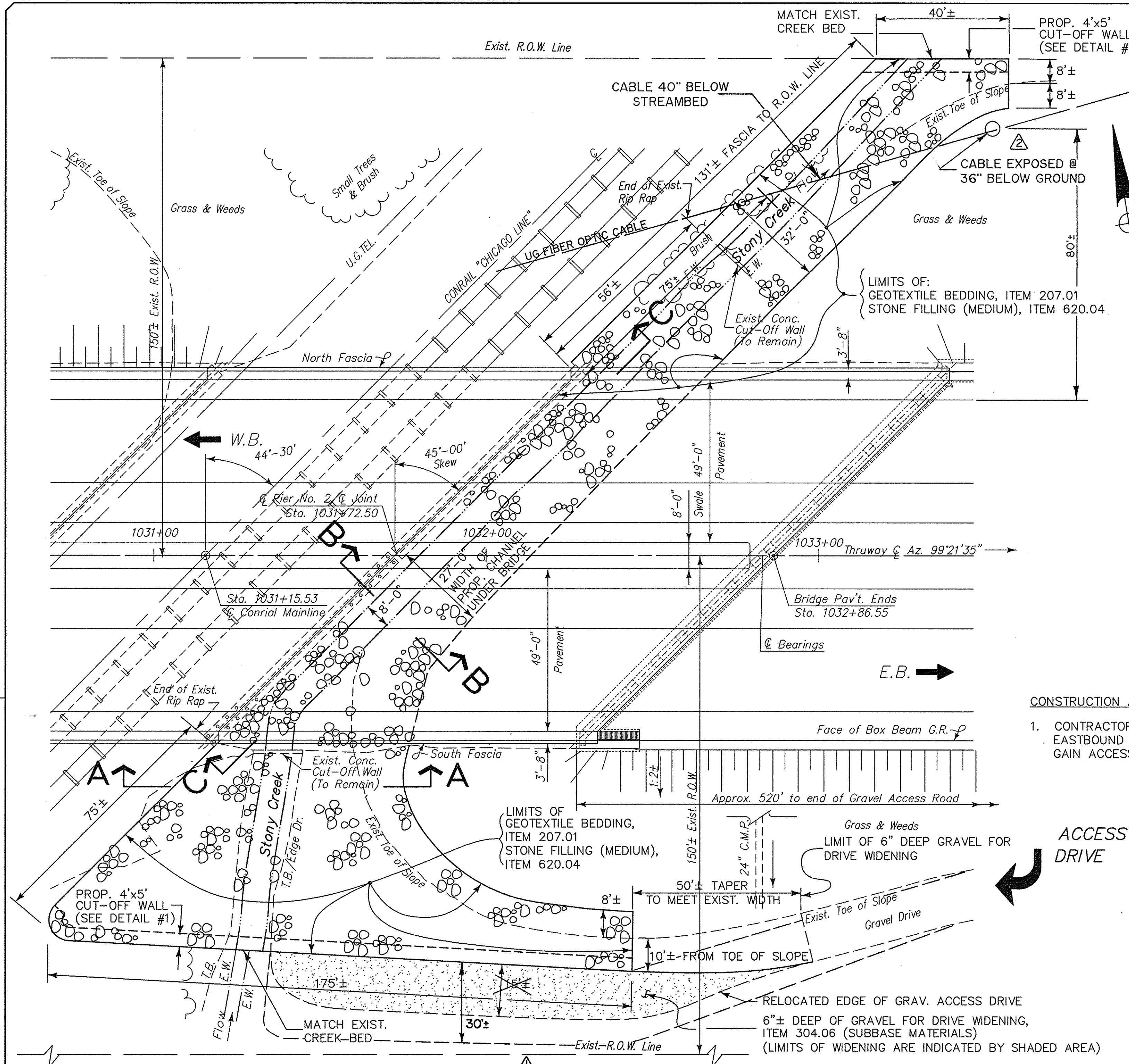
DATE	DESCRIPTION	BY	SYM.
8/5/99	TOPO REVISIONS	CHK	2
8/5/99	ASBULT REVISIONS	CHK	1

REVISIONS			
BRYANT ASSOCIATES, P.C. Engineers - Surveyors 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT BRIDGE SCOUR PROTECTION PLANS M.P. 253.52 TO 297.20			
LOCATION OF PROJECT THRUWAY BRIDGE OVER CONRAIL M.P. 253.52/ONEIDA COUNTY			
TITLE OF DRAWING EXISTING PLAN & SECTION			

NEW YORK STATE THRUWAY AUTHORITY	CONTRACT NUMBER:
	TAS 98-22B
	DATE:
	JULY 1998
DRAWING NUMBER:	SC-1



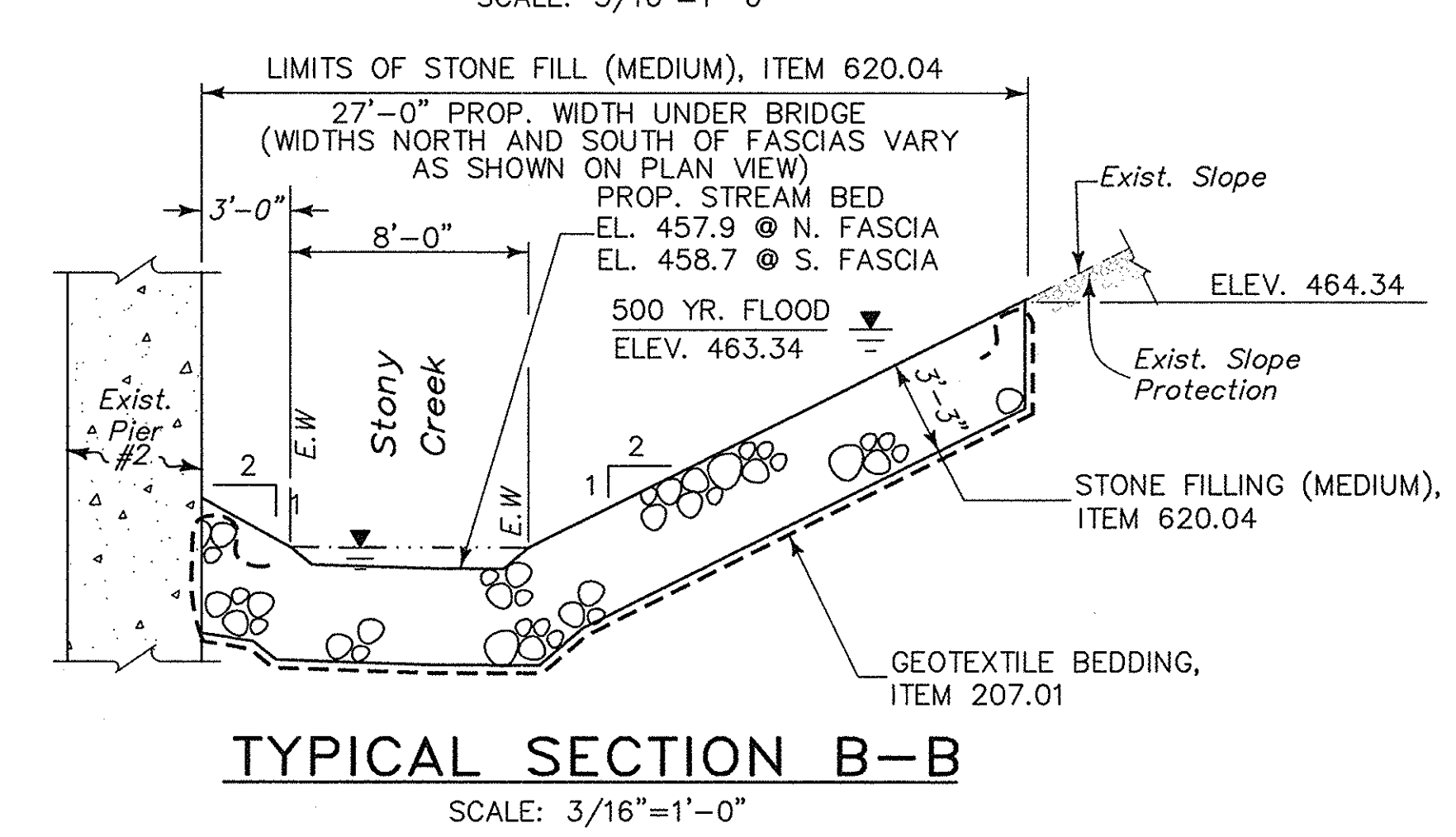
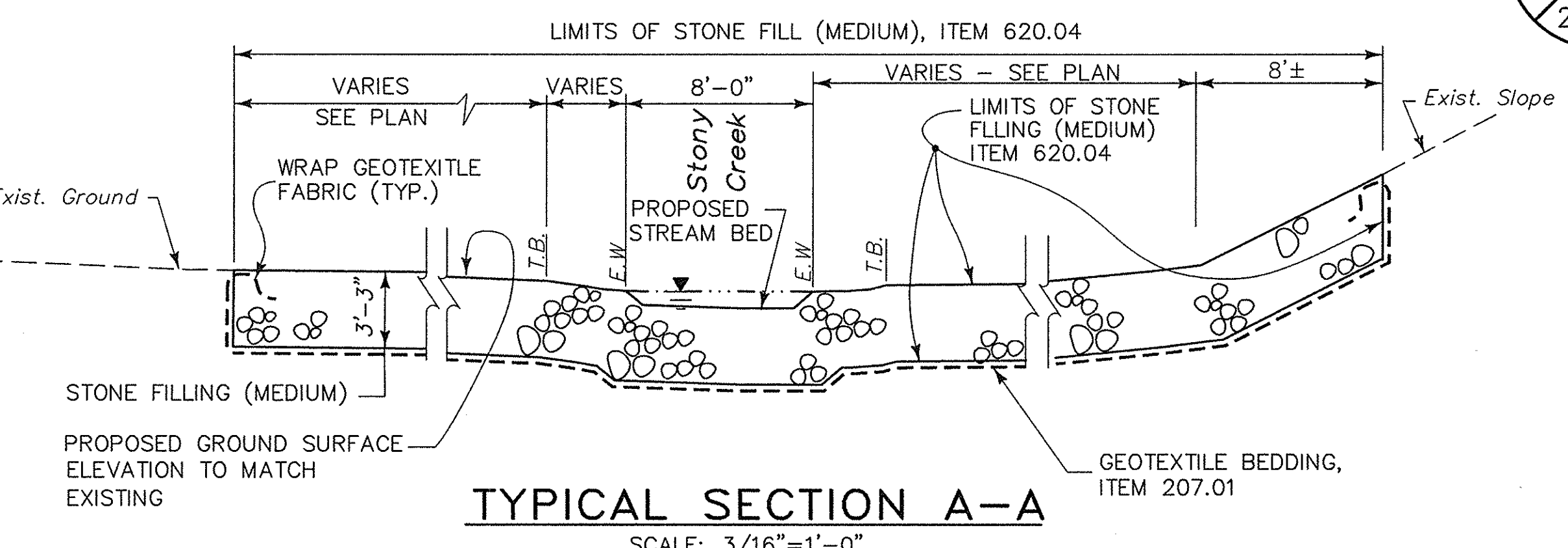
CHECKED BY: ANTONIO R. MALAKIA  
DRAFTED BY: M.L. WAYSON/E.A. O'NEIL  
DESIGNED BY: E.A. O'NEIL  
IN CHARGE OF: ANTONIO R. MALAKIA  
B-7705-A SCOUR PROTECTION PLANS - 2-DWG. 8/3/98 M.W./E.O. - "PAGE"



CONSTRUCTION ACCESS NOTE:  
1. CONTRACTOR IS TO USE THE EXISTING GRAVEL DRIVE AT EASTBOUND (S.E. SIDE), AS INDICATED BY ARROW TO GAIN ACCESS TO THE CONSTRUCTION SITE.

ACCESS DRIVE

LEGEND  
E.W. = EDGE OF WATER  
T.B. = TOP OF BANK



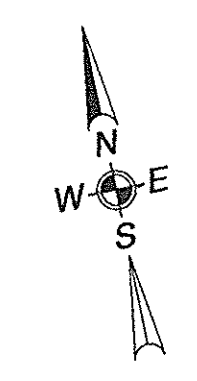
SUMMARY OF HYDROLOGY & HYDRAULICS				
PARAMETER	FLOOD FREQUENCY			
	10-YEAR	50-YEAR	100-YEAR	500-YEAR
PEAK DISCHARGE (CFS)	240	333	368	452
FLOOD ELEVATION*				
UPSTREAM FASCIA	462.17	462.73	462.92	463.34
DOWNSTREAM FASCIA	461.36	461.73	461.86	462.16
FLOW DEPTH (FT.)				
UPSTREAM FASCIA	3.47	4.03	4.22	4.64
DOWNSTREAM FASCIA	3.46	3.83	3.96	4.26
FREEBOARD (FT.)				
UPSTREAM FASCIA	28.05	27.49	27.30	26.88
TOTAL POTENTIAL SCOUR ELEVATION*				
EAST ABUTMENT	450.7	448.5	447.0	445.9

\* ELEVATIONS ARE N.G.V.D. (FT)

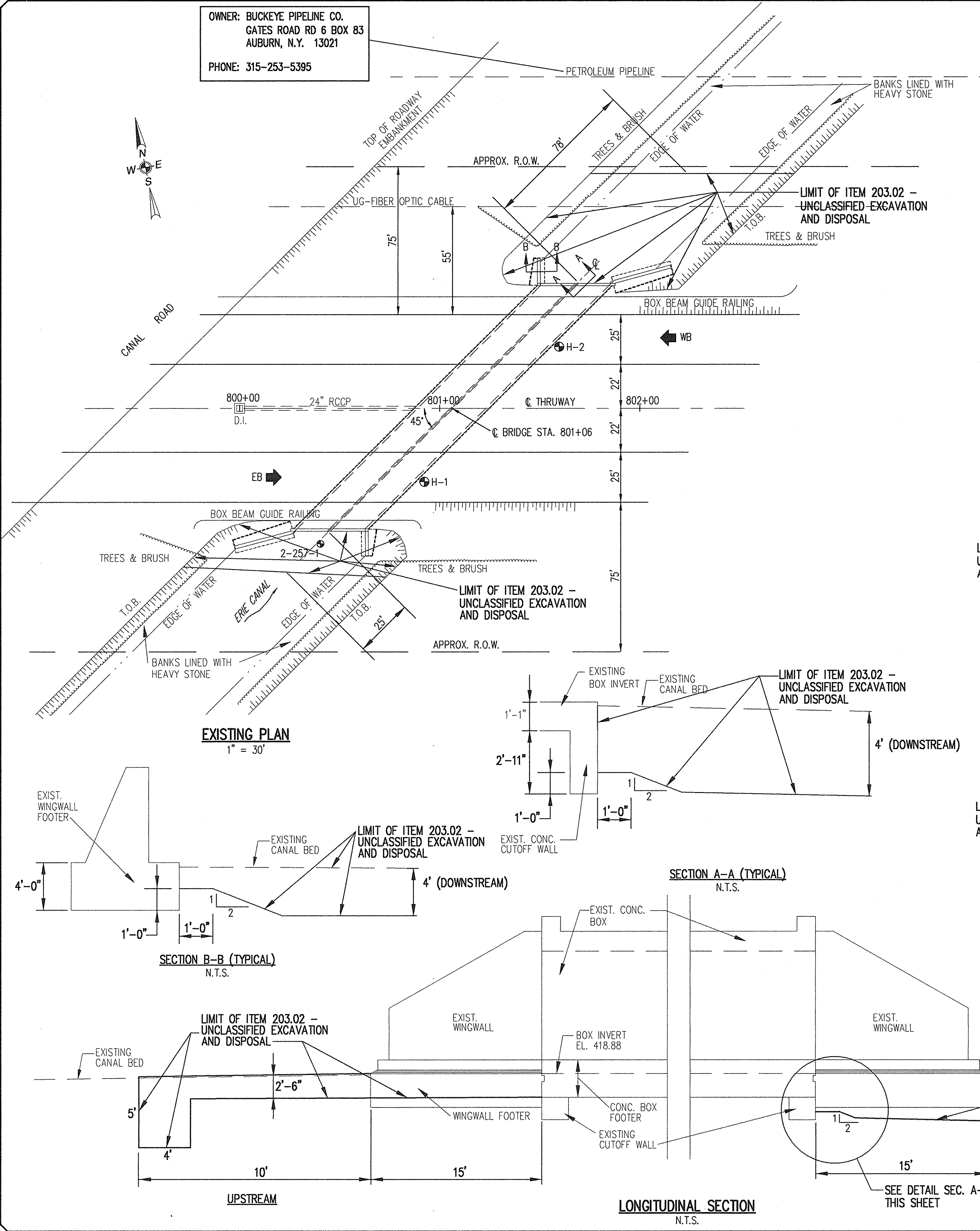
William F. Kubera, Jr., P.E.  
8-3-98  
Date

8/5/99	TOPO REVISIONS	CHK	2
8/5/99	AS BUILT REVISION	CHK	1
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
BRYANT ASSOCIATES, P.C. Engineers - Surveyors 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT BRIDGE SCOUR PROTECTION PLANS M.P. 253.52 TO 297.20			
LOCATION OF PROJECT THRUWAY BRIDGE OVER CONRAIL M.P. 253.52/ONEIDA COUNTY			
TITLE OF DRAWING PROPOSED PLAN & SECTION			
CONTRACT NUMBER: TAS 98-22B			
DATE: JULY 1998			
DRAWING NUMBER: SC-2			

OWNER: BUCKEYE PIPELINE CO.  
GATES ROAD RD 6 BOX 83  
AUBURN, N.Y. 13021  
PHONE: 315-253-5395

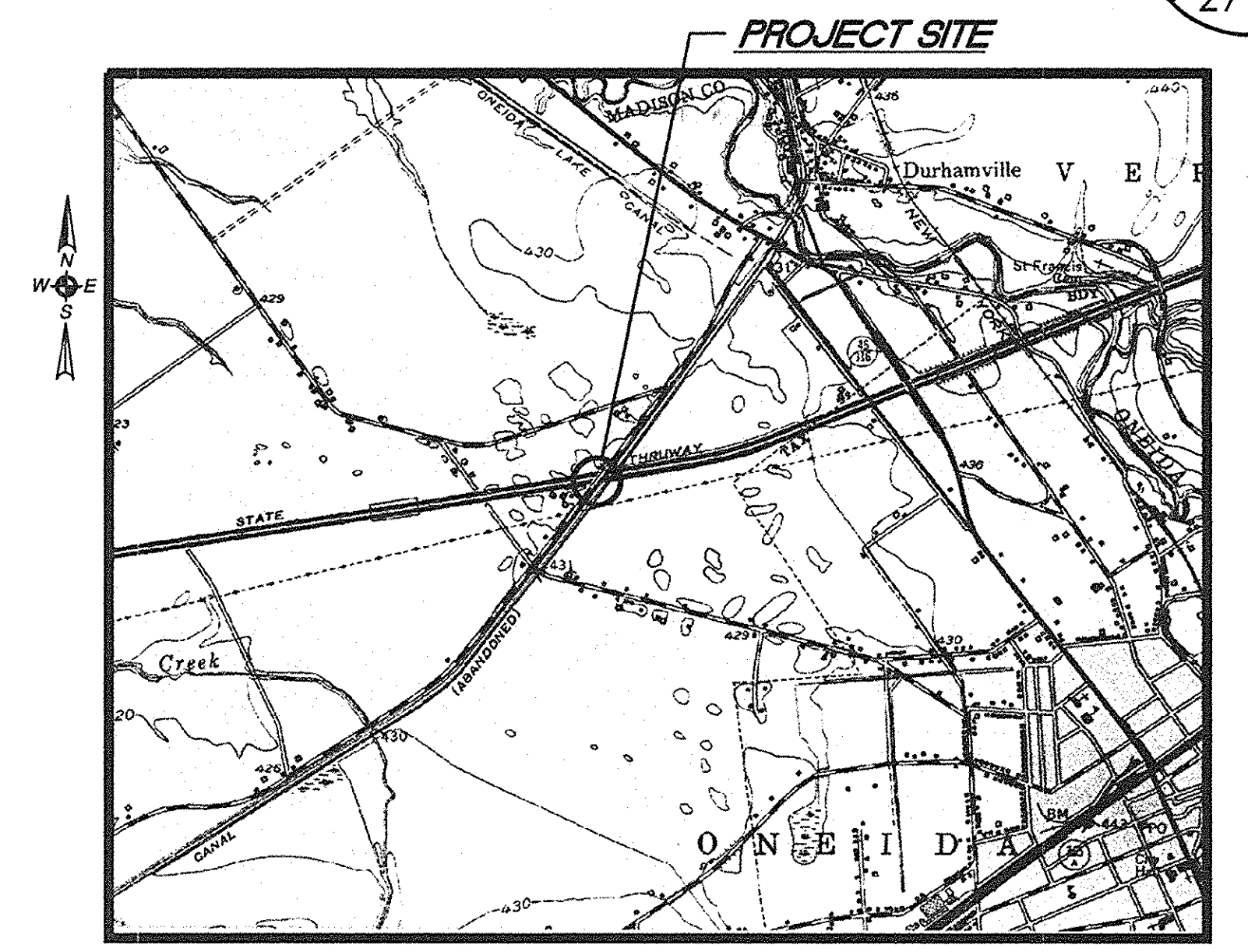


CHECKED BY: J.D.B.  
DRAFTED BY: J.W.T.  
DESIGNED BY: R.D.P.  
IN CHARGE OF: W.R.V.

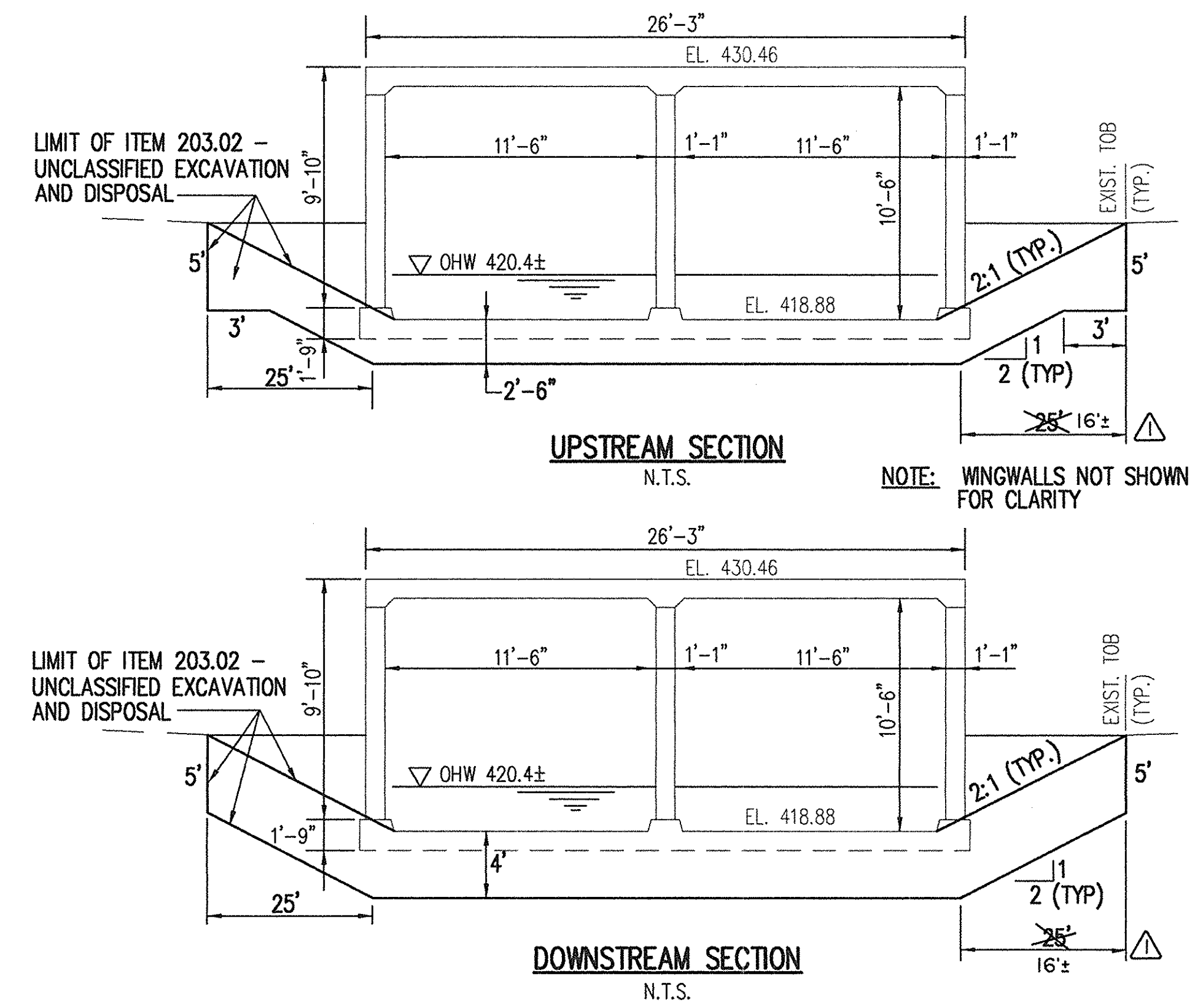


**NOTES:**

1. REMOVE EXISTING GROUTED RIP RAP UNDER ITEM 203.02 AND FILL WITH HEAVY STONE FILL UNDER ITEM 620.05. THE EXCAVATED GROUTED RIP RAP IF ACCEPTABLE AND APPROVED BY THE ENGINEER, COULD BE REUSED UNDER ITEM 620.05 - STONE FILLING (HEAVY).
2. ELEVATIONS ARE TAKEN FROM ORIGINAL CONSTRUCTION PLANS MT 52-3, MTC 52-4, ST 52-7 DATED FEBRUARY 20, 1952.



**LOCATION PLAN**  
ONEIDA QUADRANGLE  
SCALE: 1"=2000'



NOTE: WINGWALLS NOT SHOWN FOR CLARITY

*William R. VanAlst*  
William R. VanAlst, P.E.      Date: 7/14/98

8/5/99	AS BUILT REVISIONS	CHK	△
DATE	DESCRIPTION	BY	SYM.

**REVISIONS**

**LARSEN ENGINEERS**  
700 WEST METRO PARK  
ROCHESTER, NEW YORK 14623-2678  
(716)272-7310 FAX (716)272-0159

NEW YORK STATE THRUWAY AUTHORITY  
DEPARTMENT OF MAINTENANCE AND ENGINEERING  
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT  
**BRIDGE SCOUR PROTECTION PLANS**  
M.P. 253.52 TO M.P. 297.20

LOCATION OF PROJECT  
**ERIE CANAL BRIDGE**  
M.P. 257.88  
MADISON COUNTY

TITLE OF DRAWING  
**EXISTING PLAN & SECTION**

NEW YORK STATE  
THRUWAY AUTHORITY

CONTRACT NUMBER:  
**TAS 98-22B**

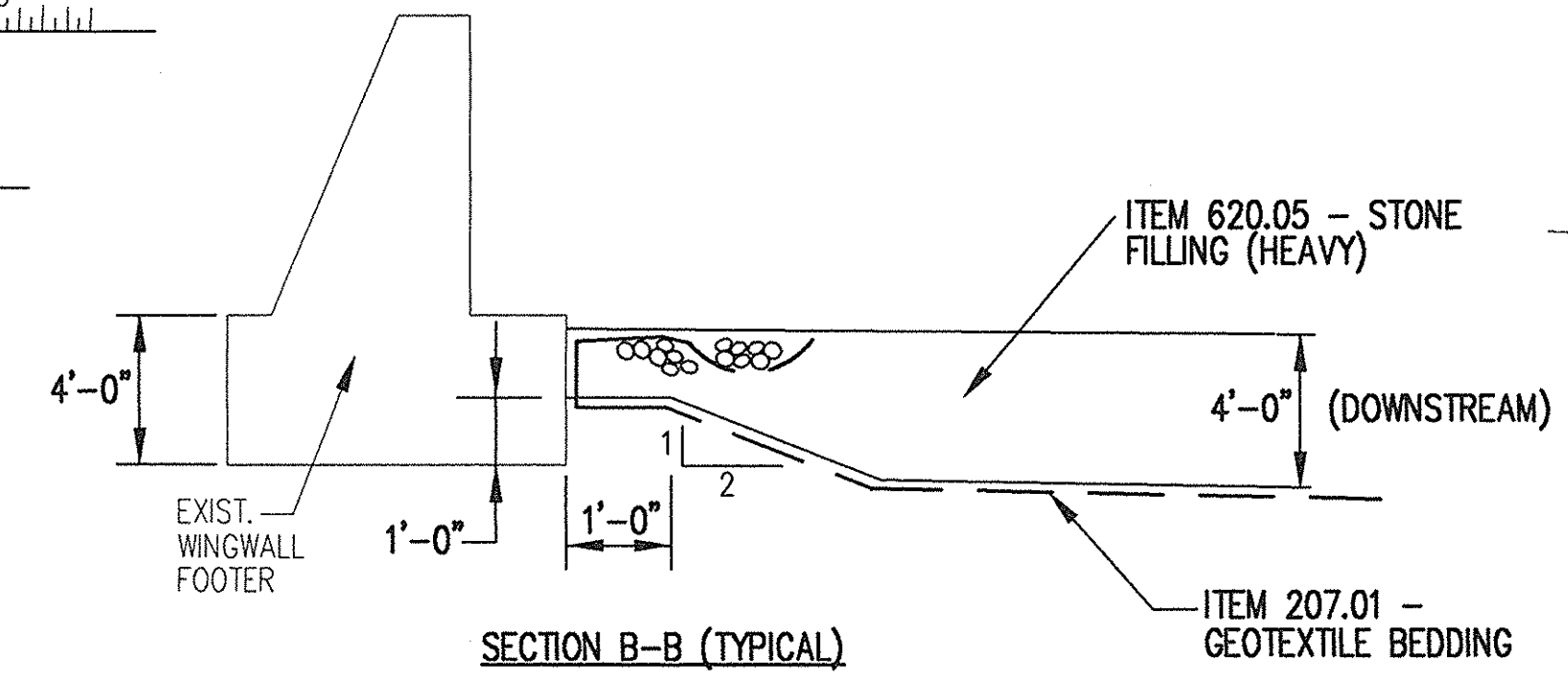
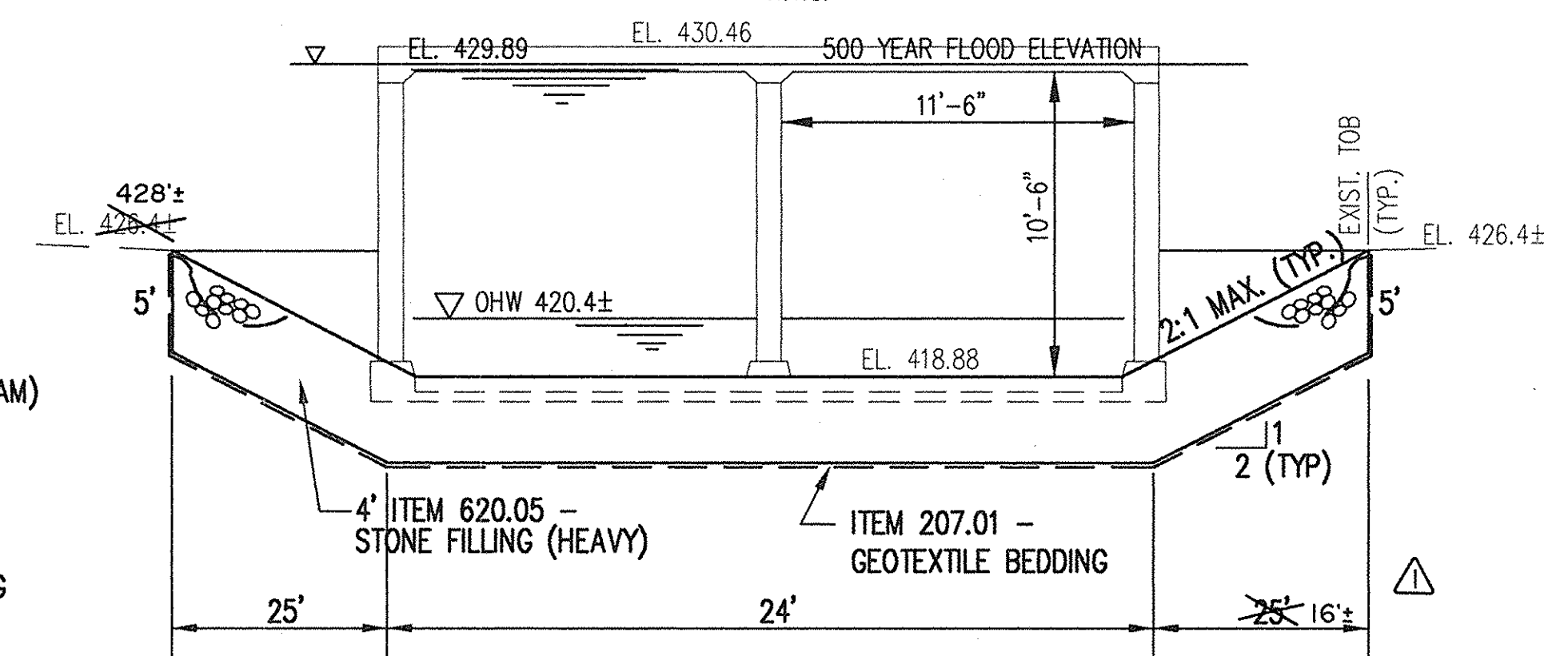
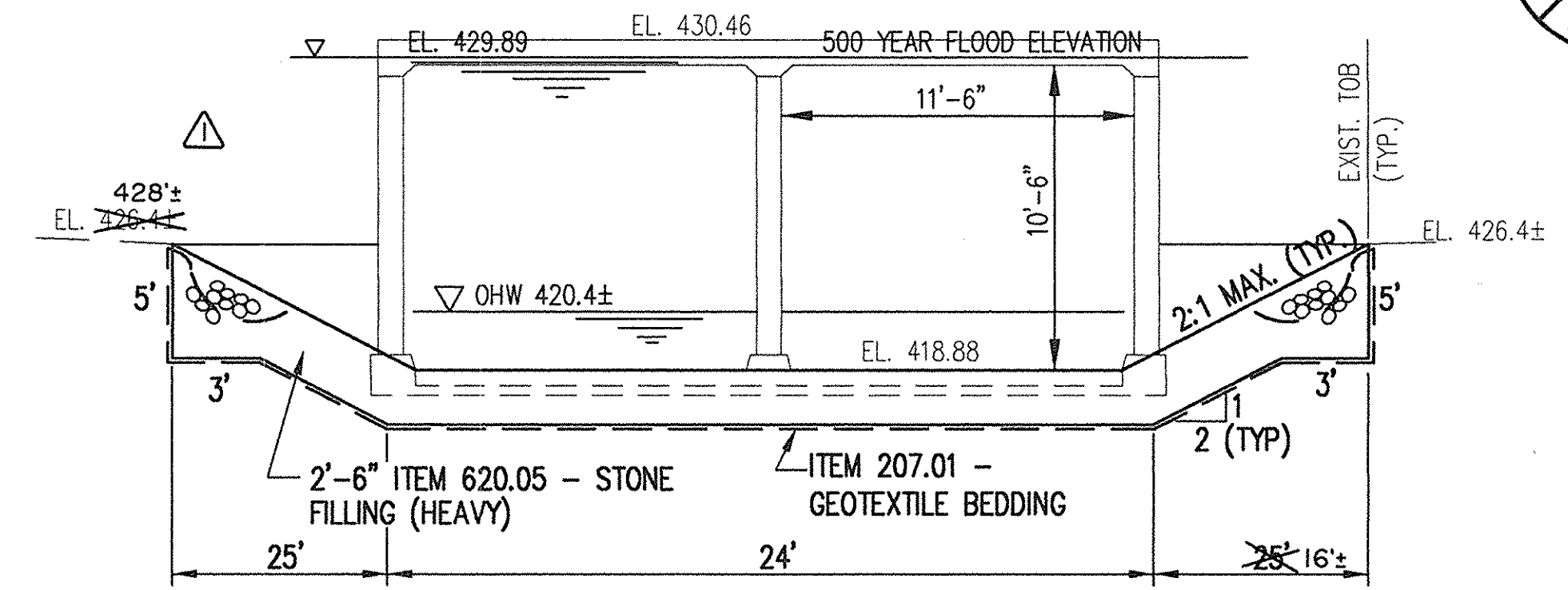
DATE:  
**JULY 1998**

DRAWING NUMBER:  
**EC-1**

UG FIBER OPTIC CABLE - REFER TO DWG. NOS. GN-1 UTILITY NOTES & GN-2 DETAIL

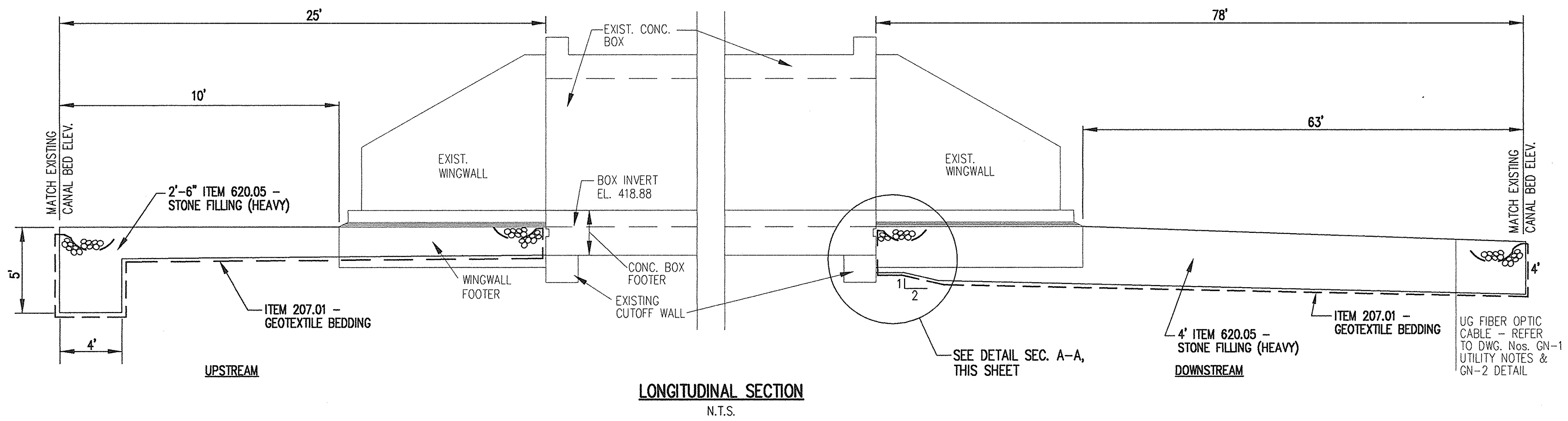
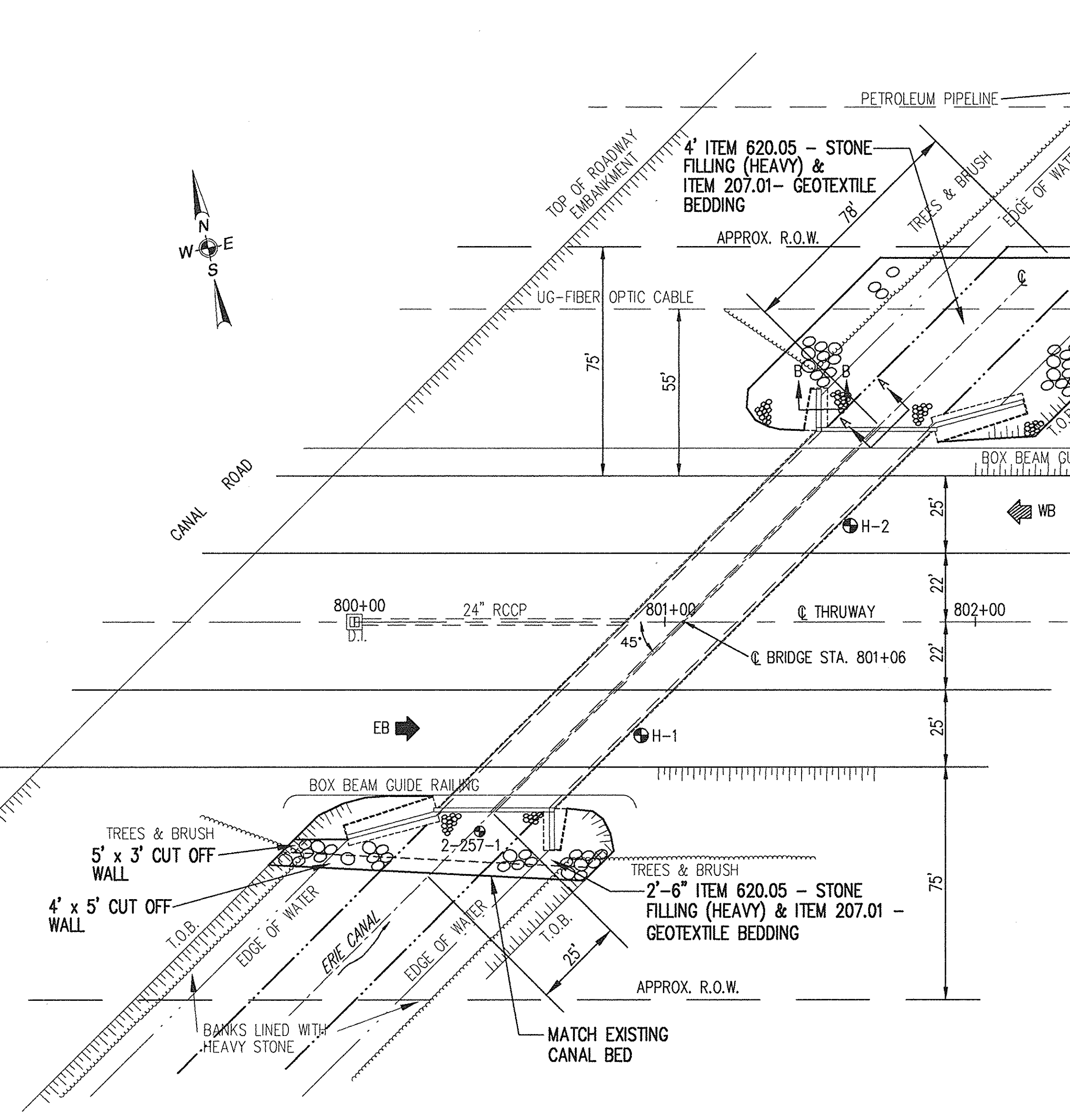
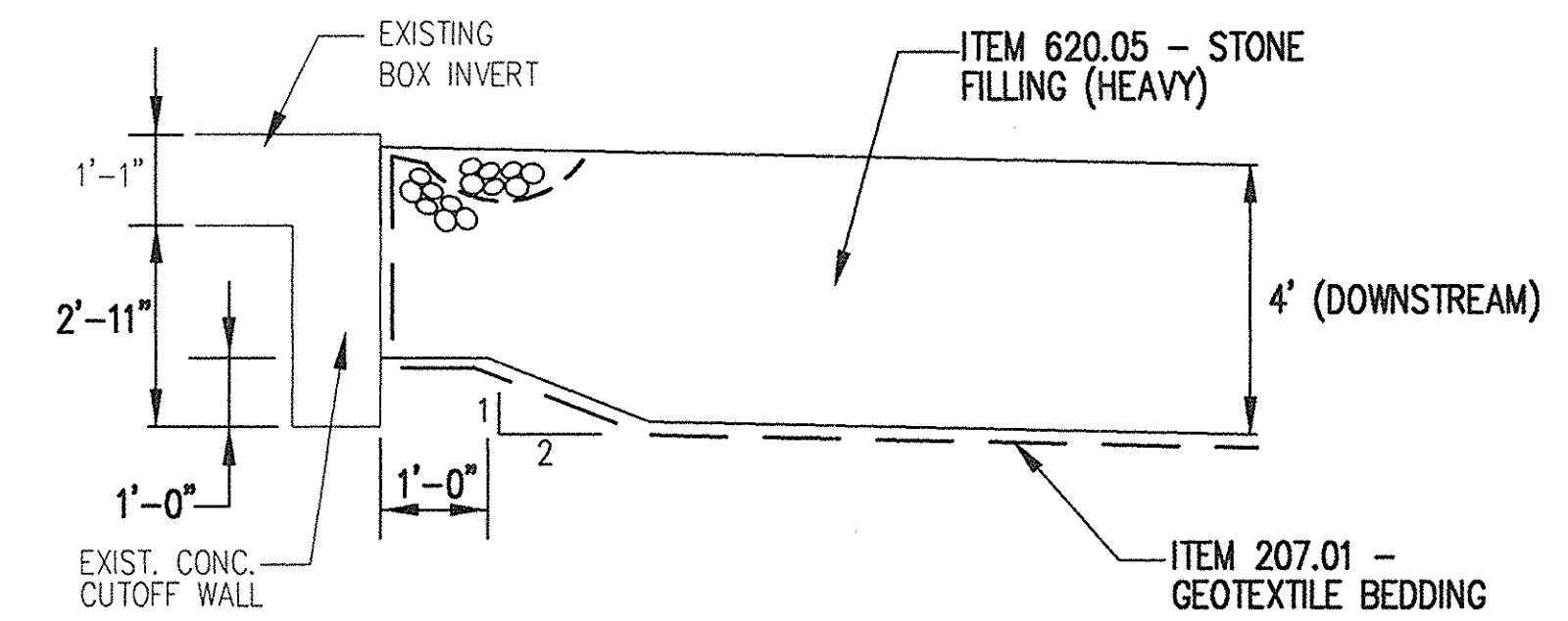


OWNER: BUCKEYE PIPELINE CO.  
GATES ROAD RD 6 BOX 83  
AUBURN, N.Y. 13021  
PHONE: 315-253-5395



PARAMETER	FLOOD FREQUENCY	
	10-YEAR	50-, 100-, 500-YEAR***
PEAK DISCHARGE (CFS)	1403	1675
FLOOD ELEVATION *		
Upstream Side	429.09	429.89
Downstream Side	428.91	429.60
FLOW DEPTH (FT)		
Upstream Side	8.89	9.69
Downstream Side	8.71	9.40
VELOCITY ** (FPS)		
Downstream Side	6.73	7.53
FREEBOARD (FT)		
Upstream Side	0.41	0.00

\* Elevations are NGVD (FT)  
\*\* Velocity at end of slab.  
\*\*\* 50-, 100-, and 500-year discharges are the same.

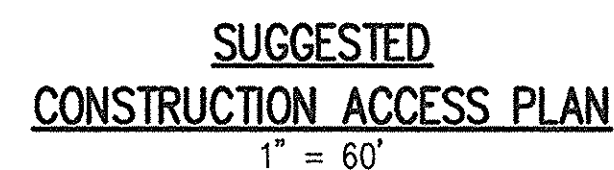
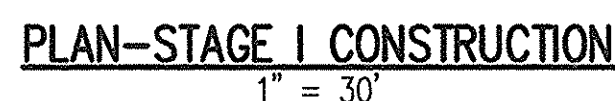


8/5/99	AS BUILT REVISIONS	CHK	△
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
<b>LARSEN ENGINEERS</b> 700 WEST METRO PARK ROCHESTER, NEW YORK 14623-2678 (716)272-7310 FAX (716)272-0159			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT <b>BRIDGE SCOUR PROTECTION PLANS M.P. 253.52 TO M.P. 297.20</b>			
LOCATION OF PROJECT <b>ERIE CANAL BRIDGE M.P. 257.88 MADISON COUNTY</b>			
TITLE OF DRAWING <b>PROPOSED PLAN &amp; SECTION</b>			
CONTRACT NUMBER: <b>TAS 98-22B</b>		DATE: <b>JULY 1998</b>	
DRAWING NUMBER: <b>EC-2</b>			

**William R. VanAlst** 7/14/98  
William R. VanAlst, P.E. Date

CHECKED BY: J.D.B.  
DRAFTED BY: J.W.T.  
DESIGNED BY: R.D.P.  
IN CHARGE OF: W.R.V.





- CONSTRUCTION ACCESS NOTES:**
1. NO GUIDE RAILING REMOVALS ARE ANTICIPATED AT THIS SITE.
  2. ACCESS TO THE CONSTRUCTION AREAS WILL BE ATTAINED AT THE N.E. AND S.E. SIDES. BRUSH AND SMALL TREES WILL NEED TO BE REMOVED AT BOTH ACCESS SITES TO BE PAID UNDER ITEM 201.0601.



*William R VanAlst* 7/14/98  
 William R. VanAlst, P.E. Date

DATE	DESCRIPTION	BY	SY

## REVISIONS



**LARSEN ENGINEERS**  
700 WEST METRO PARK  
ROCHESTER, NEW YORK 14623-2678  
(716)272-7310 FAX (716)272-0159

NEW YORK STATE THRUWAY AUTHORITY  
DEPARTMENT OF MAINTENANCE AND ENGINEERING  
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT  
**BRIDGE SCOUR PROTECTION PLANS**  
**M.P. 253.52 TO M.P. 297.20**

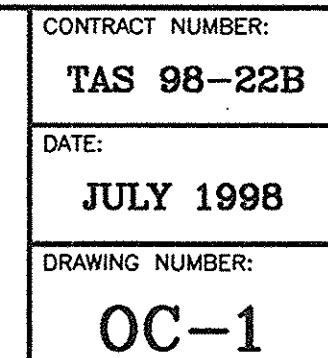
LOCATION OF PROJECT  
ERIE CANAL BRIDGE  
M.P. 257.88  
MADISON COUNTY

TITLE OF DRAWING

**CONSTRUCTION STAGING PLAN**

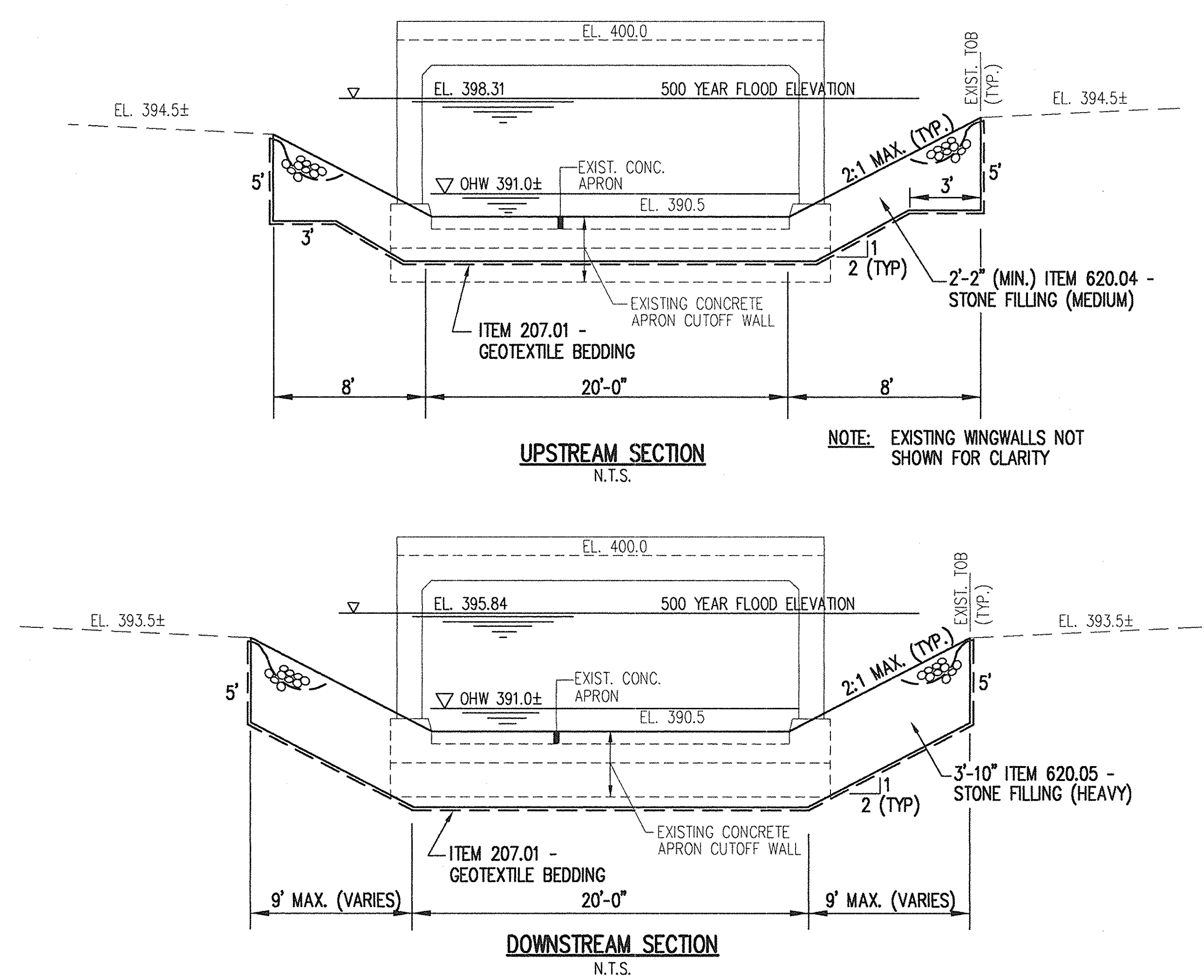
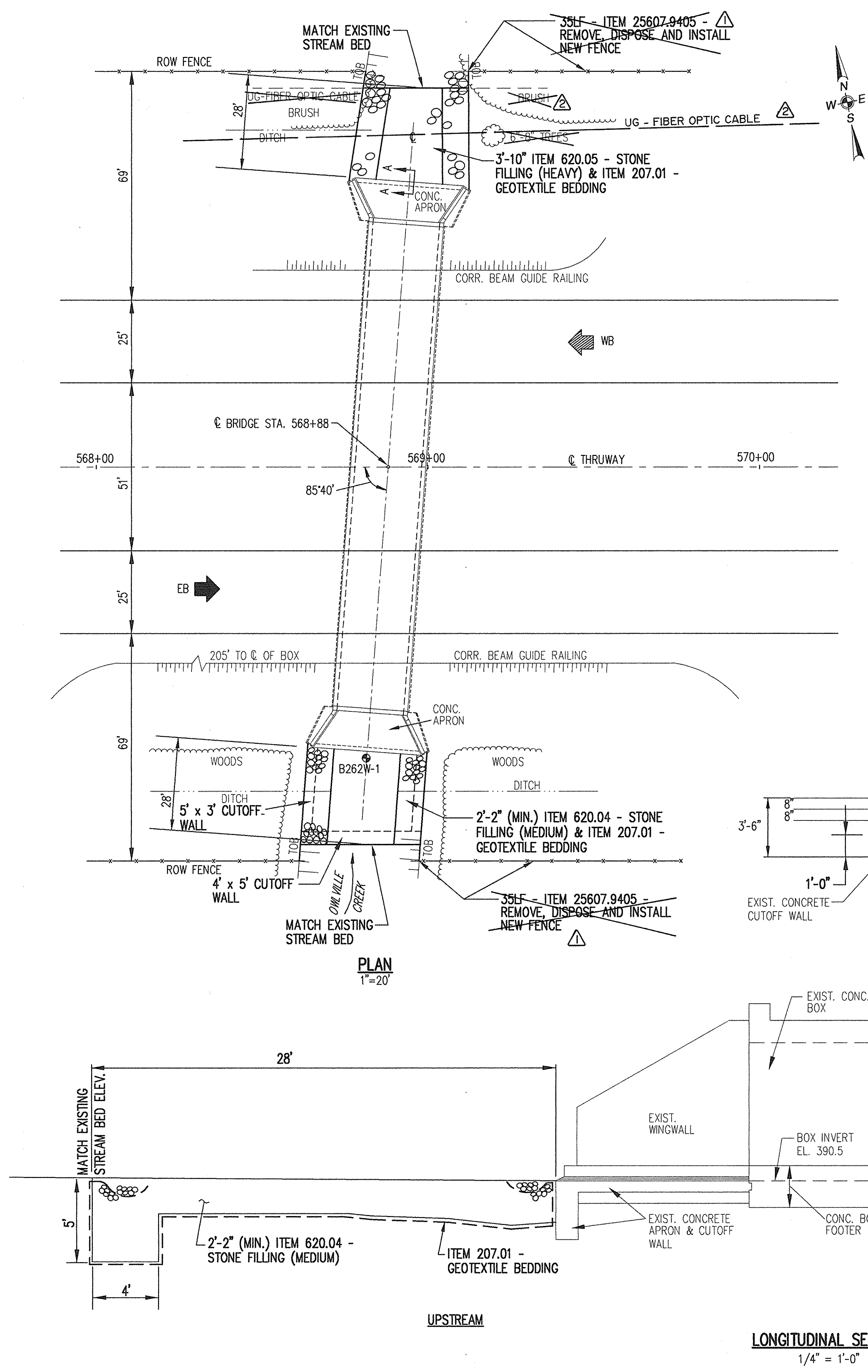


CONTRACT NUMBER: <b>TAS 98-22E</b>
DATE: <b>JULY 1998</b>
DRAWING NUMBER: <b>EC-3</b>





IN CHARGE OF: W.R.V.  
DESIGNED BY: R.D.P.  
DRAFTED BY: J.W.T.  
CHECKED BY: J.D.B.



SUMMARY OF HYDROLOGY AND HYDRAULICS				
PARAMETER	FLOOD FREQUENCY			
	10-YEAR	50-YEAR	100-YEAR	500-YEAR
PEAK DISCHARGE (CFS)	580	1160	1200	1730
FLOOD ELEVATION * Upstream Side Downstream Side	395.32 395.33	395.88 395.84	395.91 395.87	398.31 395.84
FLOW DEPTH (FT) Upstream Side Downstream Side	6.34 6.63	6.88 7.14	6.91 7.17	9.31 7.14
VELOCITY ** (FPS) Downstream Side	4.37	8.12	8.57	12.11
FREEBOARD (FT) Upstream Side	1.66	1.12	1.09	0

\* Elevations are NGVD (FT)  
\*\* Velocity at end of apron

William R. VanAlst, P.E. Date 7/14/98

8/5/99	TOPO REVISIONS	CHK	2
8/5/99	AS BUILT REVISIONS	CHK	1
DATE	DESCRIPTION	BY	SYM.

**LARSEN ENGINEERS**  
700 WEST METRO PARK  
ROCHESTER, NEW YORK 14623-2678  
(716)272-7310 FAX (716)272-0159

NEW YORK STATE THRUWAY AUTHORITY  
DEPARTMENT OF MAINTENANCE AND ENGINEERING  
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT  
**BRIDGE SCOUR PROTECTION PLANS  
M.P. 253.52 TO M.P. 297.20**

LOCATION OF PROJECT  
**OWLVILLE CREEK BRIDGE  
M.P. 262.38  
MADISON COUNTY**

TITLE OF DRAWING  
**PROPOSED PLAN & SECTION**

CONTRACT NUMBER: <b>TAS 98-22B</b>
DATE: <b>JULY 1998</b>
DRAWING NUMBER: <b>OC-2</b>

UG FIBER OPTIC CABLE - REFER TO DWG. Nos. GN-1 UTILITY NOTES & GN-2 DETAIL

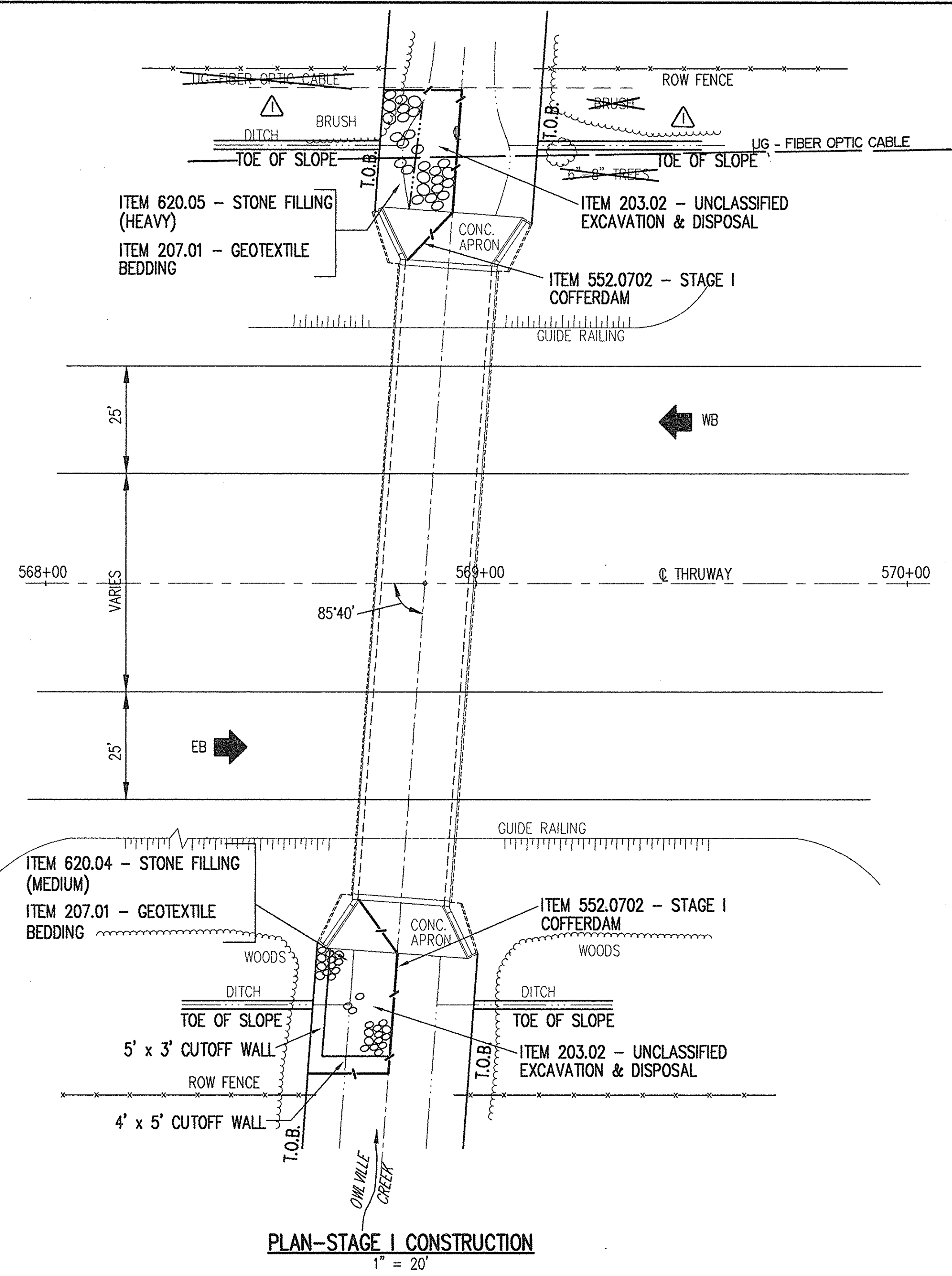
SECTION A-A

LONGITUDINAL SECTION  
1/4" = 1'-0"

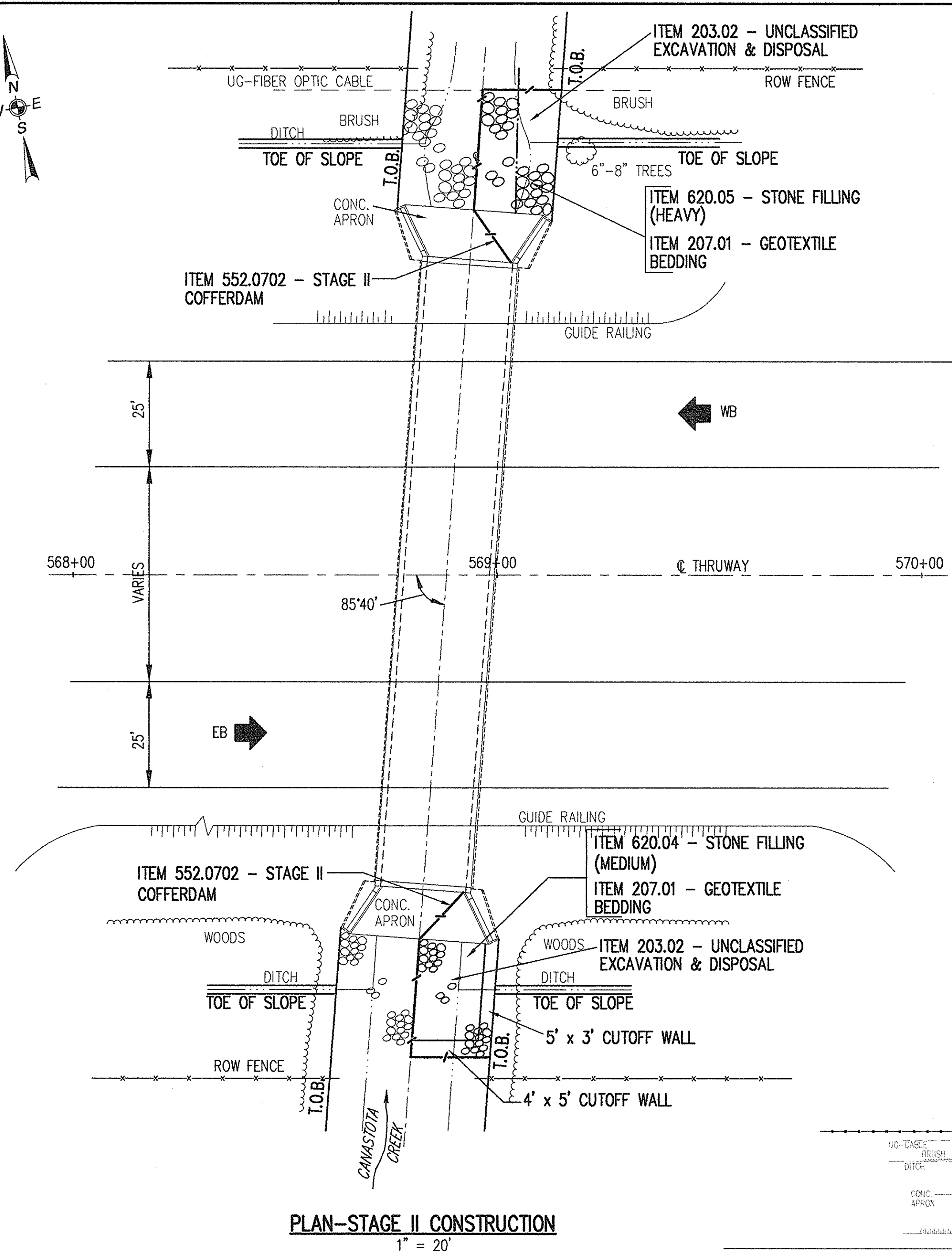
DOWNSTREAM

UPSTREAM

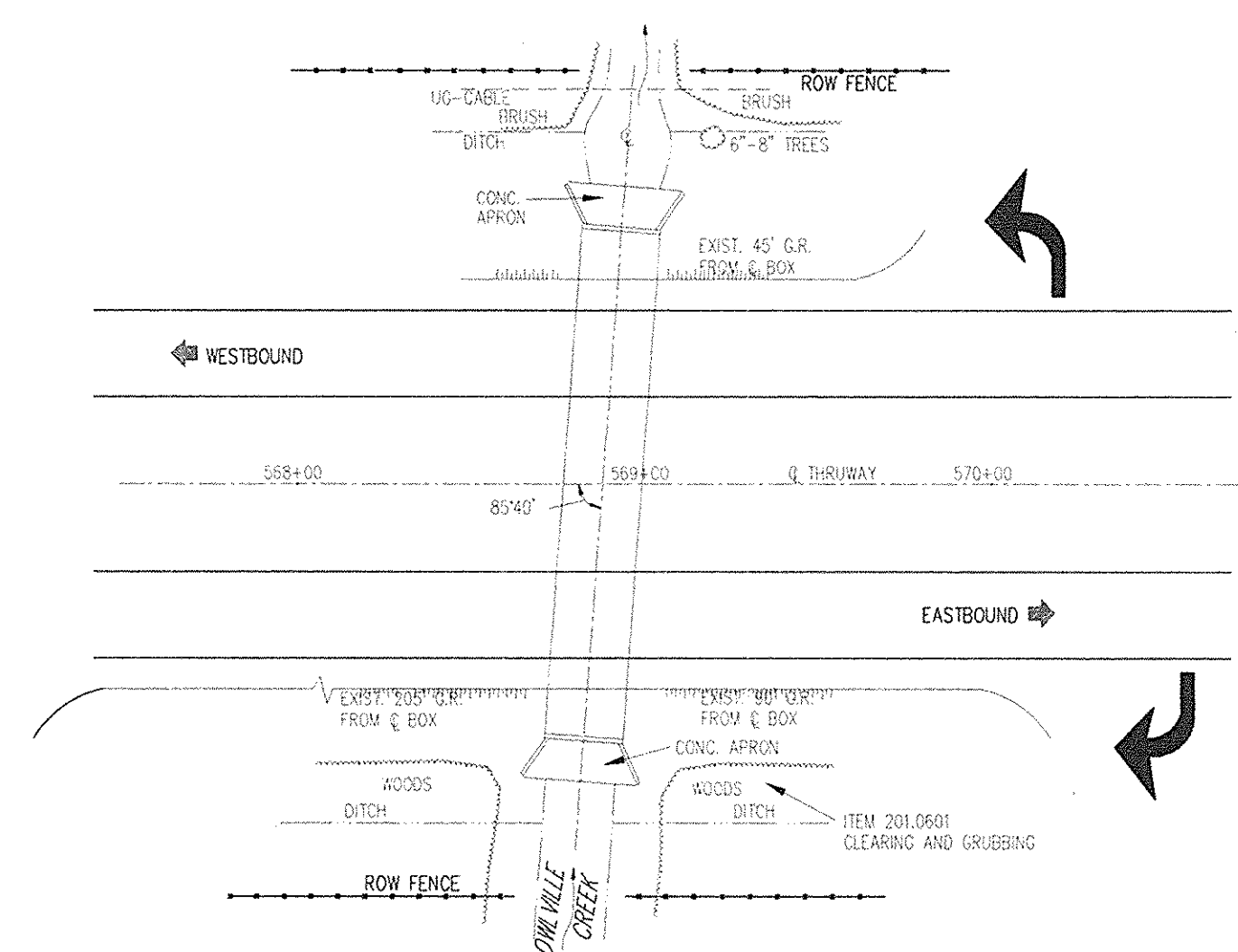
CHECKED BY: J.D.B.  
DRAFTED BY: J.W.T.  
DESIGNED BY: R.D.P.  
IN CHARGE OF: W.R.V.



PLAN-STAGE I CONSTRUCTION  
1" = 20'



PLAN-STAGE II CONSTRUCTION  
1" = 20'



SUGGESTED  
CONSTRUCTION ACCESS PLAN  
1" = 50'

- CONSTRUCTION ACCESS NOTES:**
1. NO GUIDE RAILING REMOVALS ARE ANTICIPATED AT THIS SITE.
  2. ACCESS TO THE CONSTRUCTION AREAS WILL BE ATTAINED AT THE N.E. AND S.E. SIDES. BRUSH AND SMALL TREES WILL NEED TO BE REMOVED AT BOTH ACCESS SITES TO BE PAID UNDER ITEM 201.0601.

*William R. VanAlst* 7/14/98  
William R. VanAlst, P.E. Date

8/5/99	TOPO REVISION	CHK	△
DATE	DESCRIPTION	BY	SYM.

**REVISIONS**

**LARSEN ENGINEERS**  
700 WEST METRO PARK  
ROCHESTER, NEW YORK 14623-2678  
(716)272-7310 FAX (716)272-0159

**NEW YORK STATE THRUWAY AUTHORITY**  
DEPARTMENT OF MAINTENANCE AND ENGINEERING  
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

**TITLE OF PROJECT**  
BRIDGE SCOUR PROTECTION PLANS  
M.P. 253.52 TO M.P. 297.20

**LOCATION OF PROJECT**  
OWLVILLE CREEK BRIDGE  
M.P. 262.38  
MADISON COUNTY

**TITLE OF DRAWING**  
CONSTRUCTION STAGING PLAN

NEW YORK STATE  
THRUWAY AUTHORITY

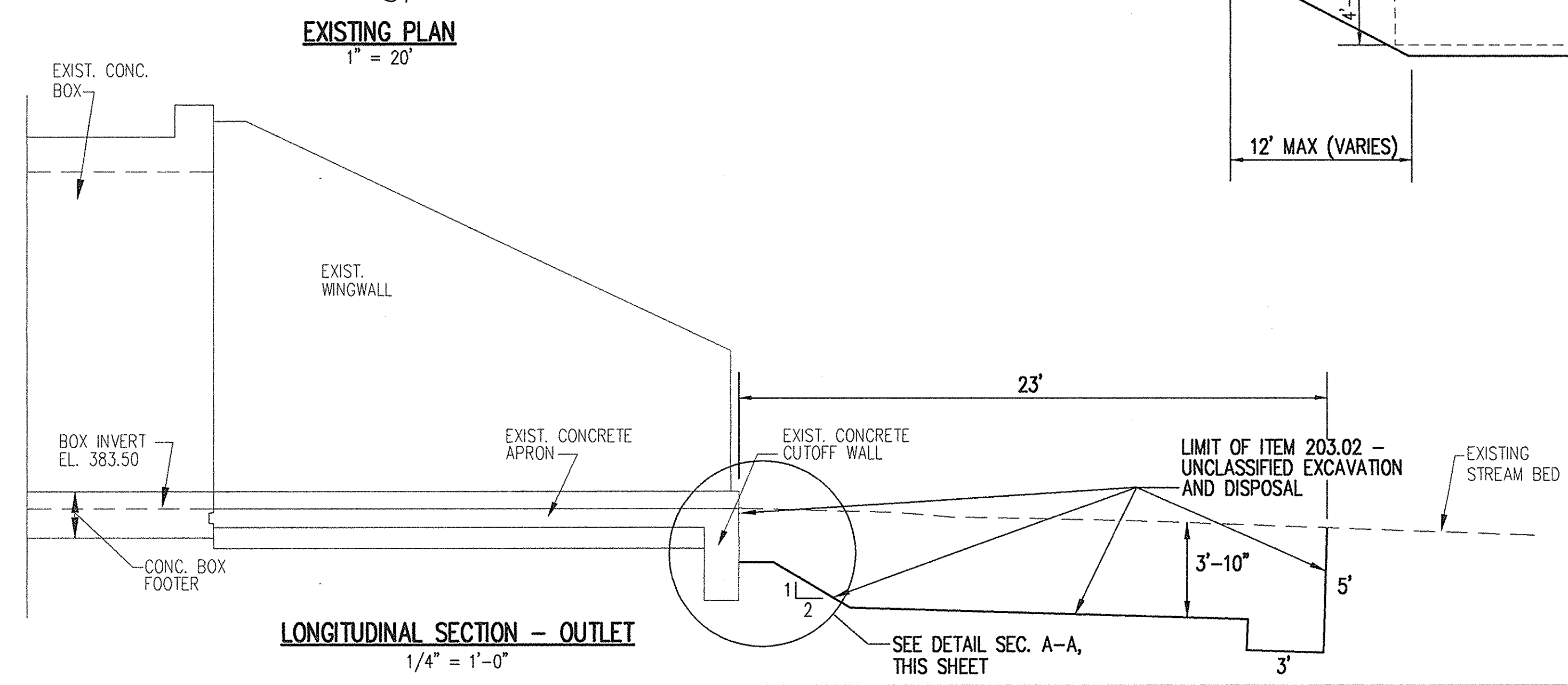
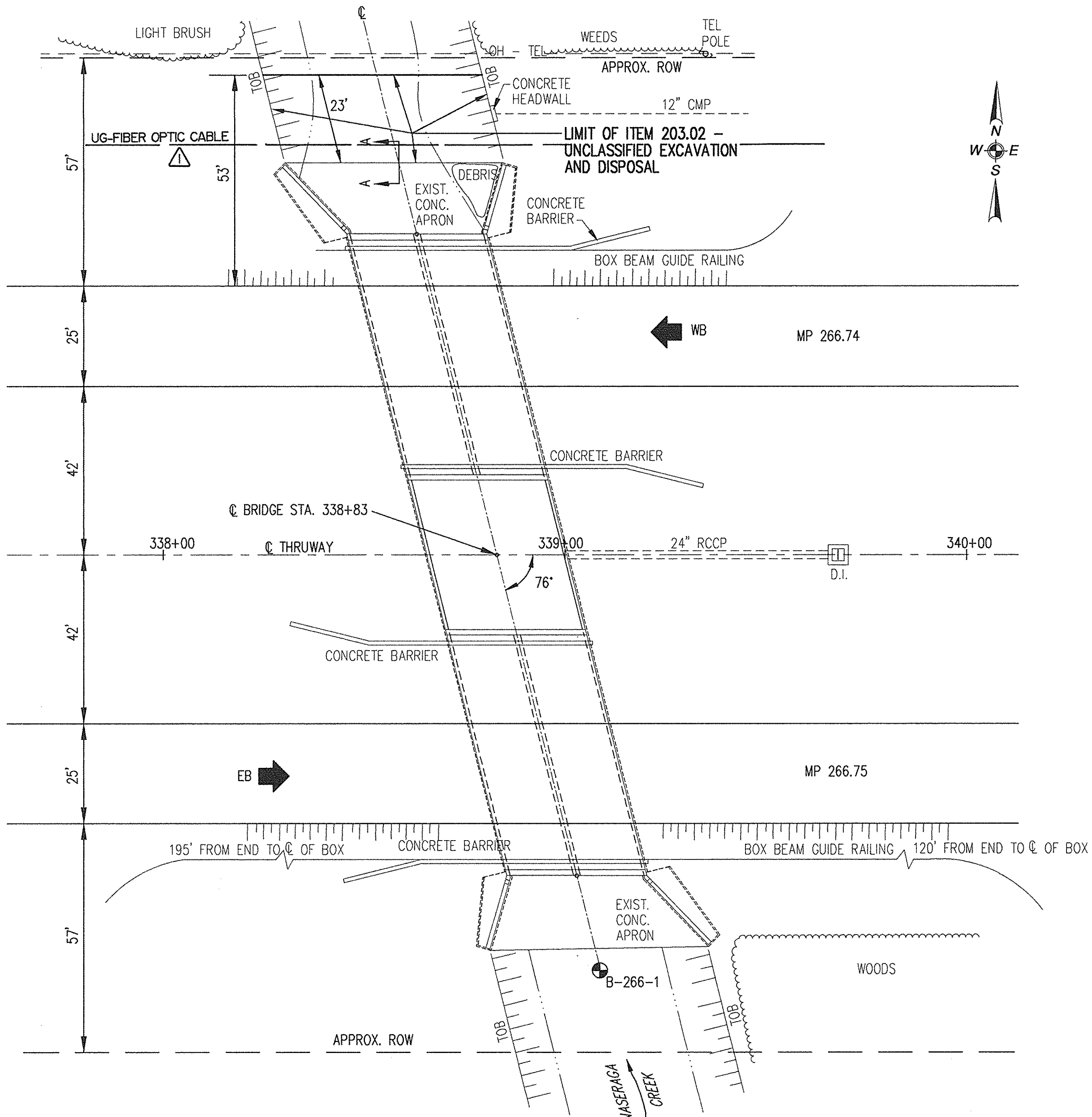
CONTRACT NUMBER:  
**TAS 98-22B**

DATE:  
**JULY 1998**

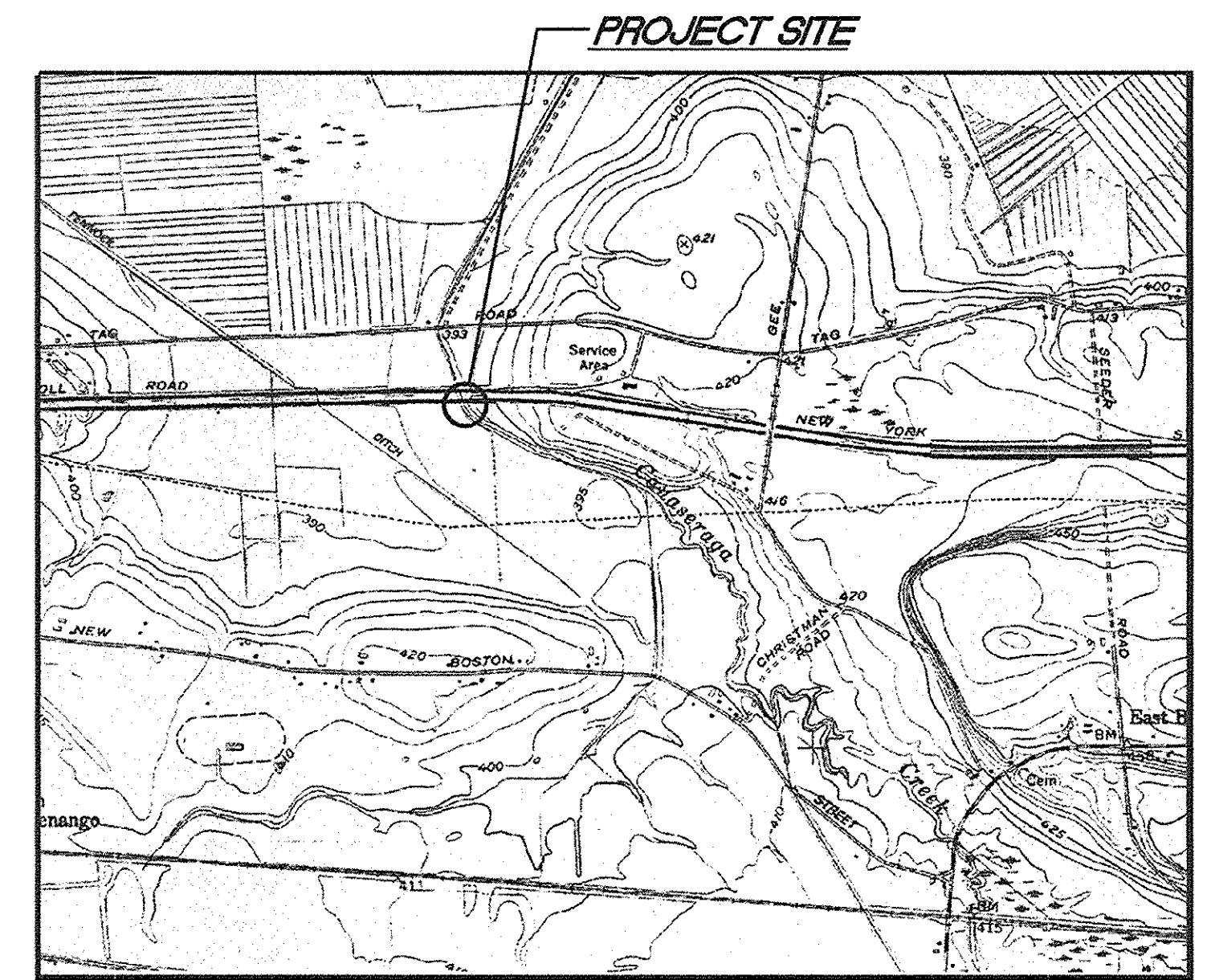
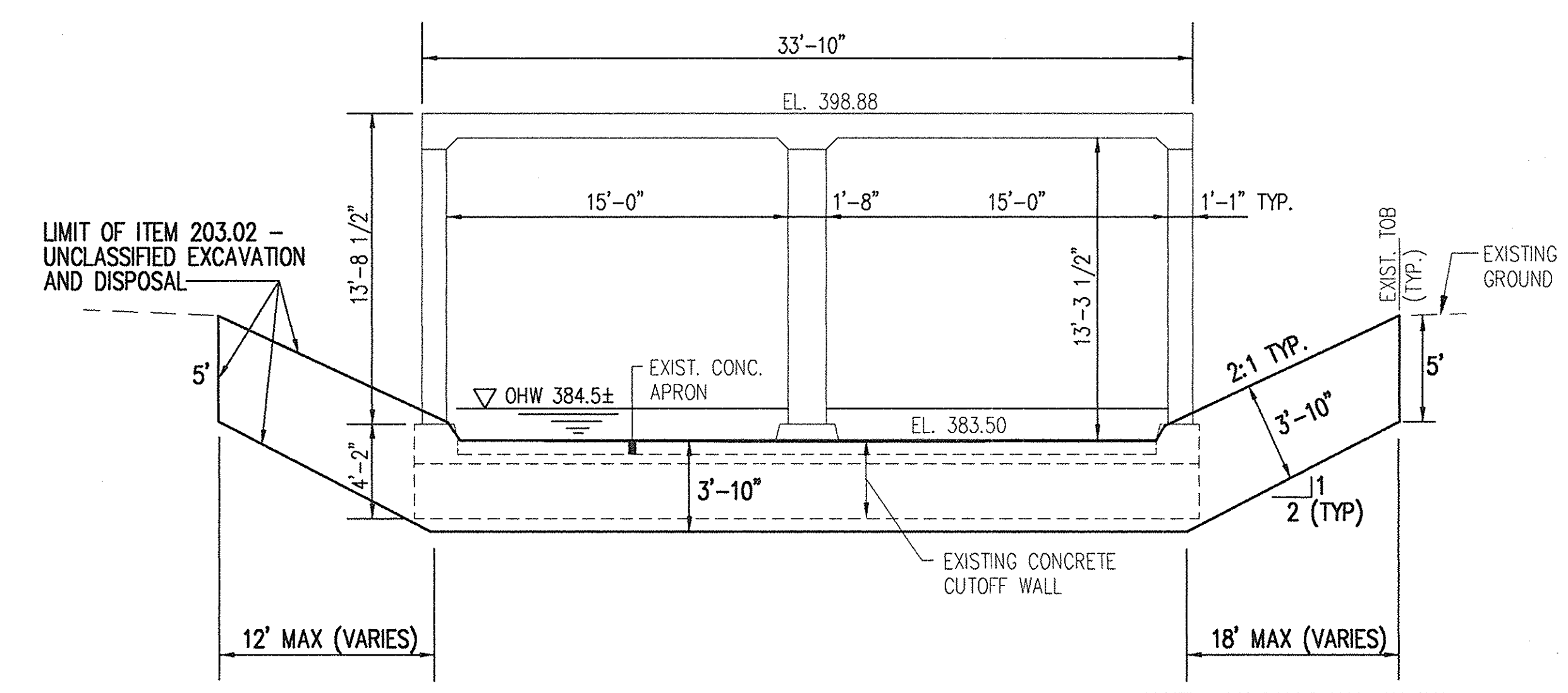
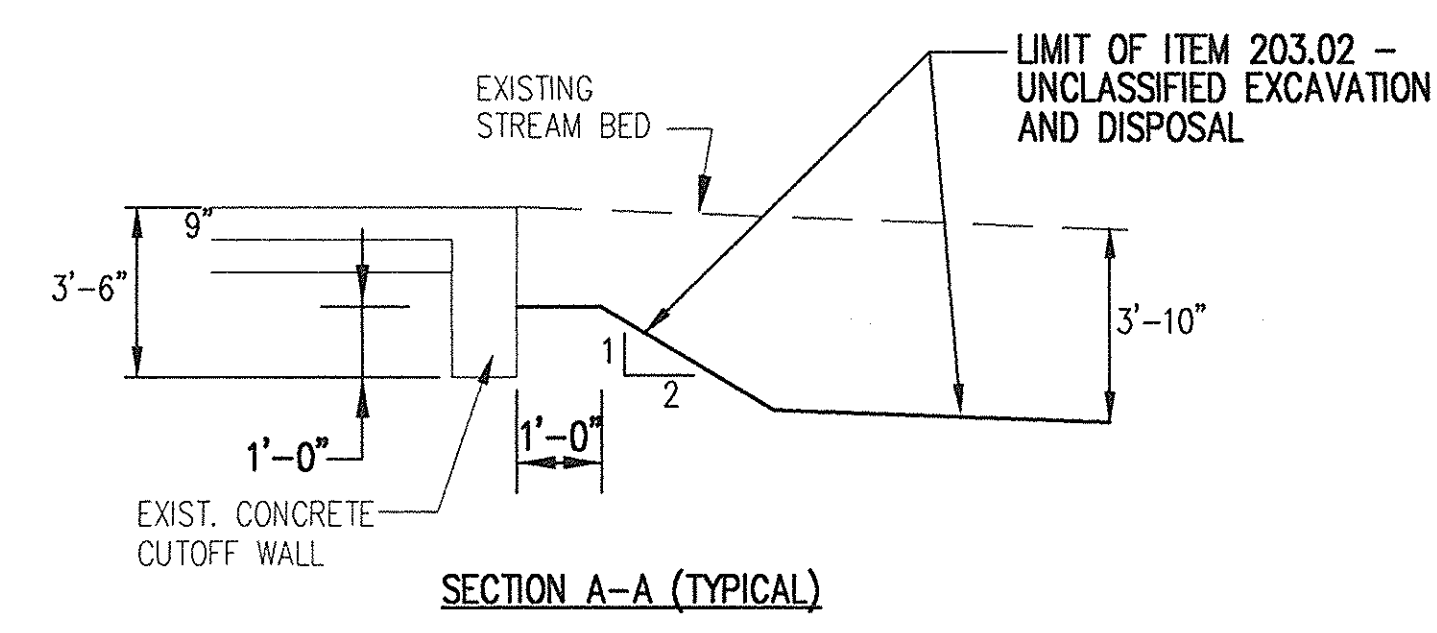
DRAWING NUMBER:  
**OC-3**



CHECKED BY: J.D.B.  
DRAFTED BY: J.W.T.  
DESIGNED BY: R.D.P.  
IN CHARGE OF: W.R.V.



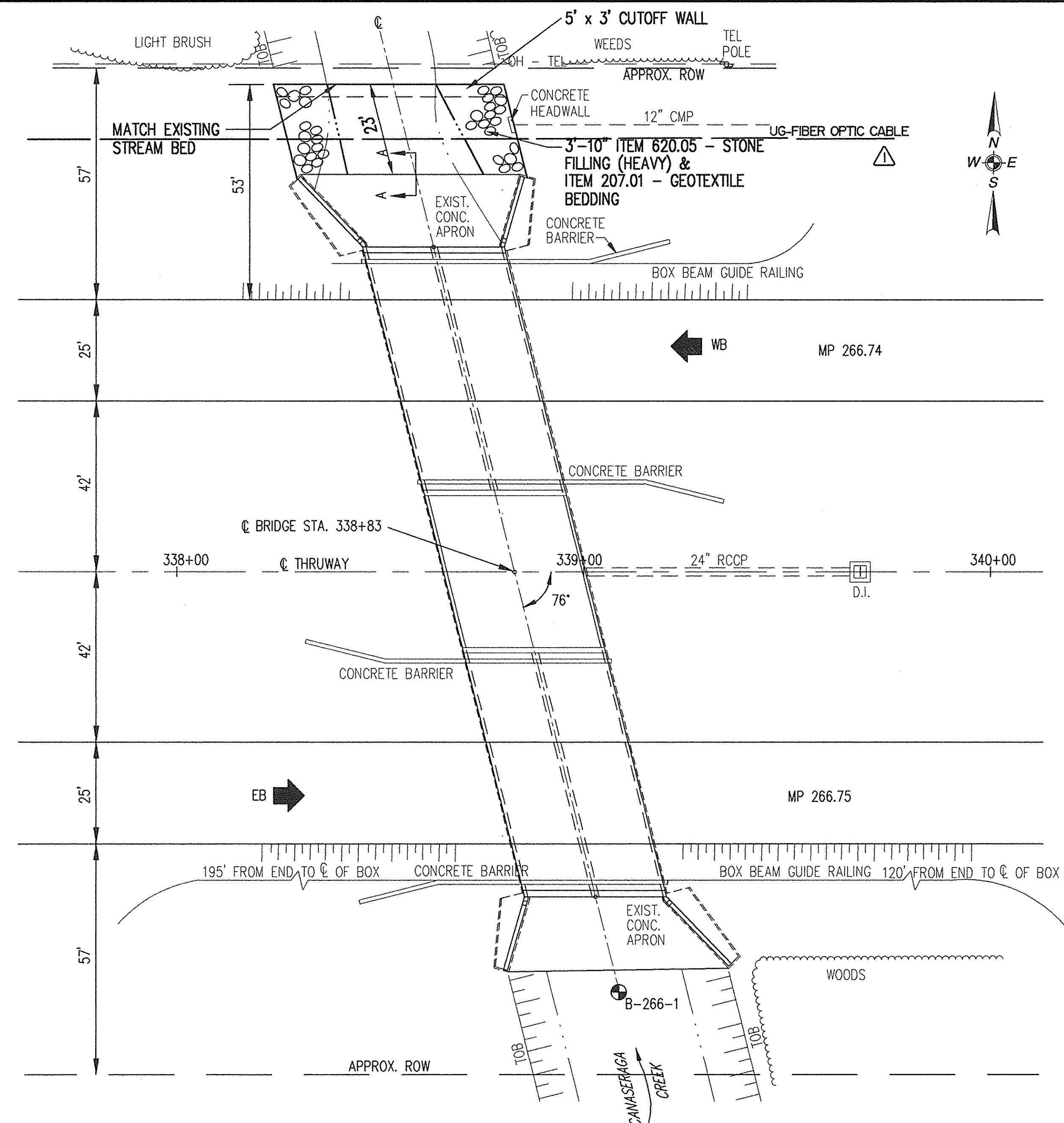
- NOTES:
1. ALL DEBRIS ON APRON SHALL BE REMOVED UNDER ITEM 201.0601 - CLEARING & GRUBBING.
  2. CONTRACTOR SHALL REFER TO DWG. No. GN-1 FOR UTILITY NOTE INFORMATION.
  3. ELEVATIONS ARE TAKEN FROM ORIGINAL CONSTRUCTION PLANS MT 50-3 DATED MAY 15, 1950.



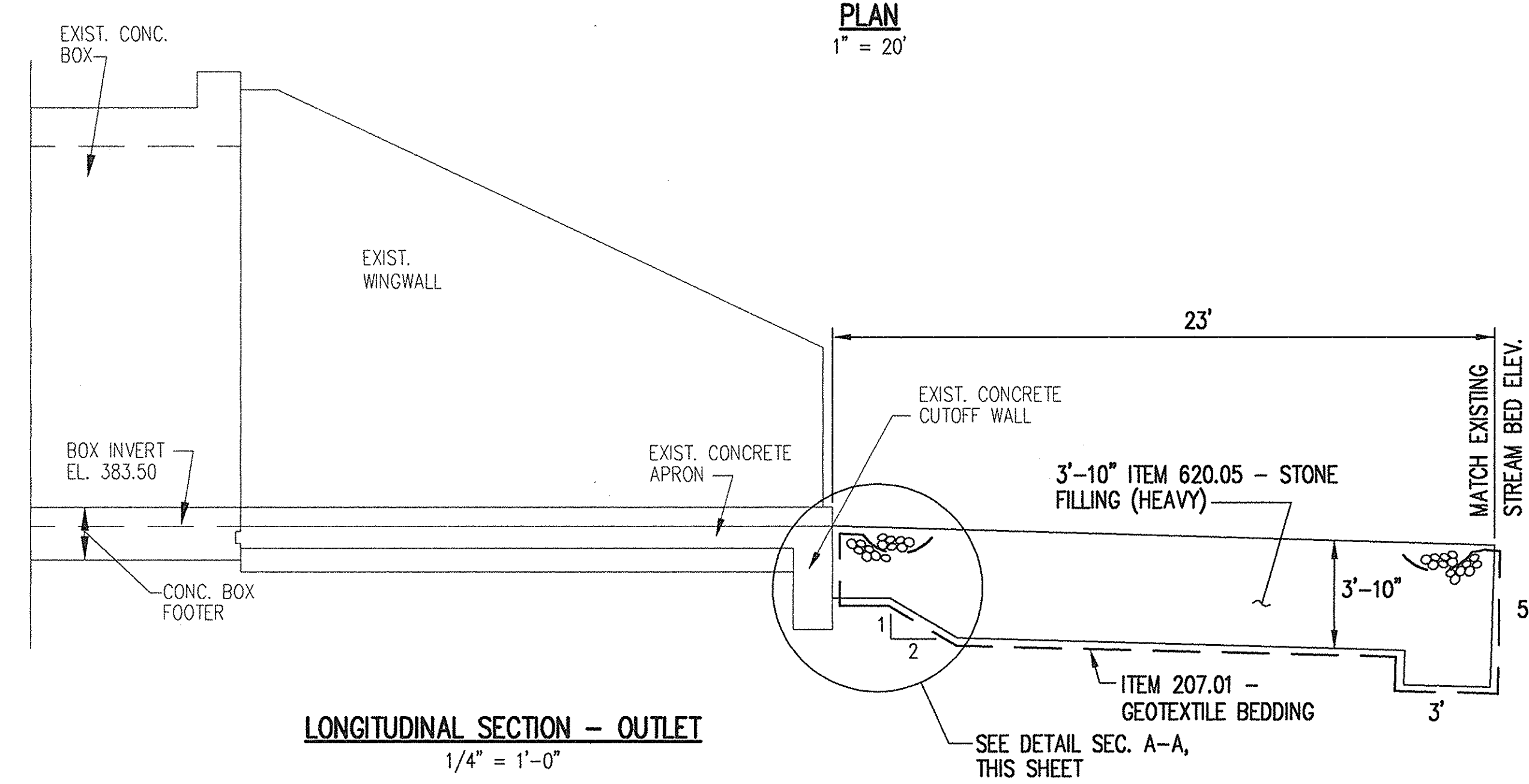
8/5/99	TOPO REVISIONS	CHK	1
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
<b>LARSEN ENGINEERS</b> 700 WEST METRO PARK ROCHESTER, NEW YORK 14623-2678 (716)272-7310 FAX (716)272-0159			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT <b>BRIDGE SCOUR PROTECTION PLANS M.P. 253.52 TO M.P. 297.20</b>			
LOCATION OF PROJECT <b>CANASERAGA CREEK BRIDGE M.P. 266.74 &amp; M.P. 266.75 MADISON COUNTY</b>			
TITLE OF DRAWING <b>EXISTING PLAN &amp; SECTION</b>			
CONTRACT NUMBER: <b>TAS 98-22B</b>		DATE: <b>JULY 1998</b>	
DRAWING NUMBER: <b>CC-1</b>		DATE: <b>7/14/99</b>	

*William R. VanAlst*  
William R. VanAlst, P.E.  
Date

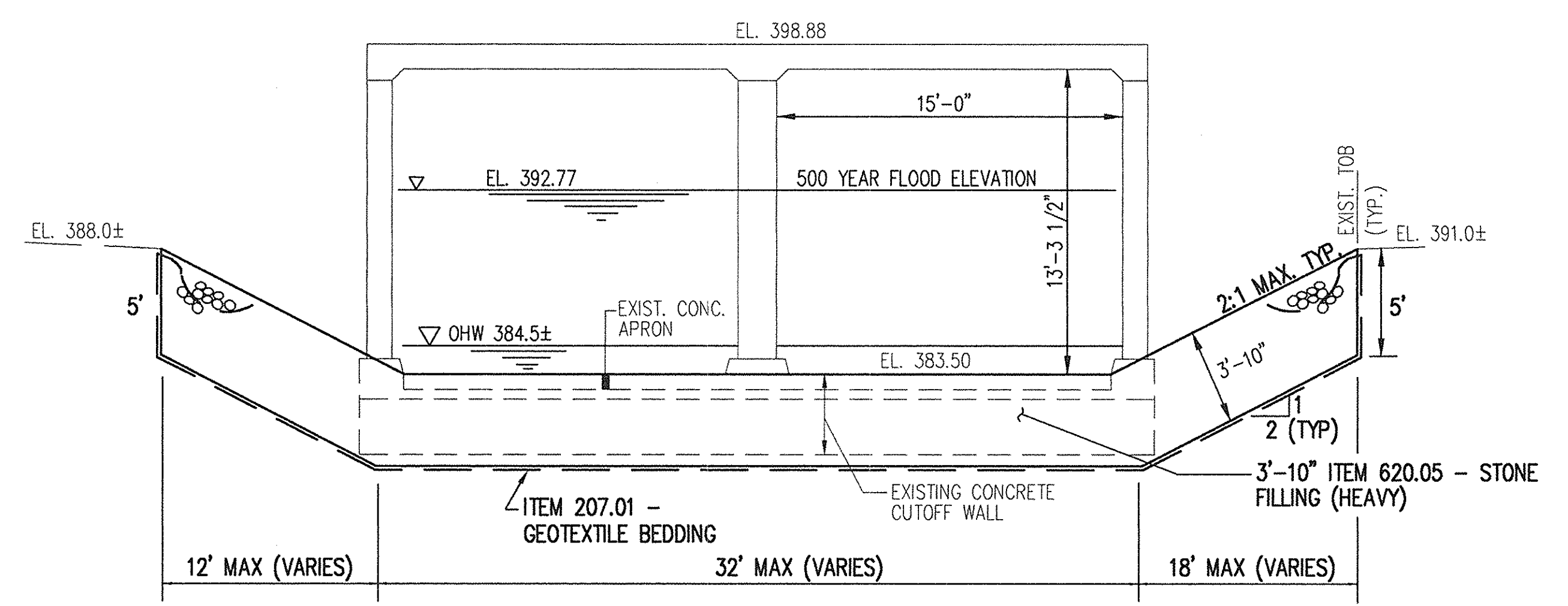
CHECKED BY: J.D.B.  
DRAFTED BY: J.W.T.  
DESIGNED BY: R.D.P.  
IN CHARGE OF: W.R.V.



PLAN  
1" = 20'

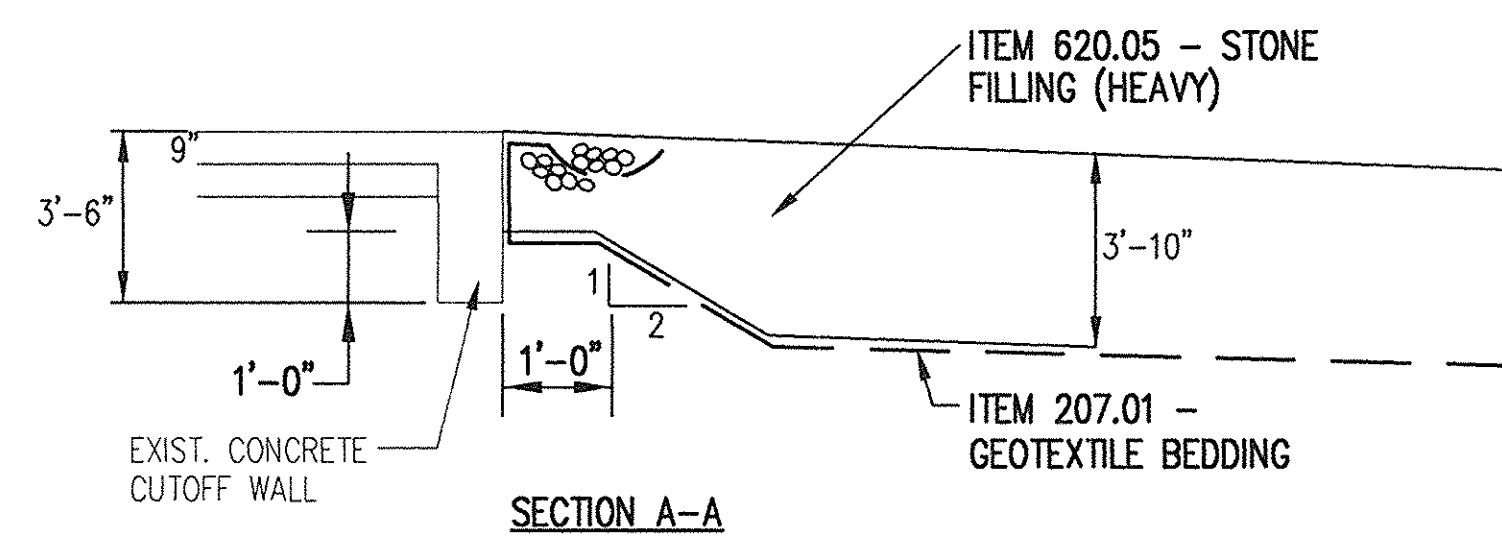


LONGITUDINAL SECTION - OUTLET  
1/4" = 1'-0"



DOWNSTREAM SECTION  
N.T.S.

NOTE: WINGALLS NOT SHOWN FOR CLARITY



SECTION A-A

SUMMARY OF HYDROLOGY AND HYDRAULICS

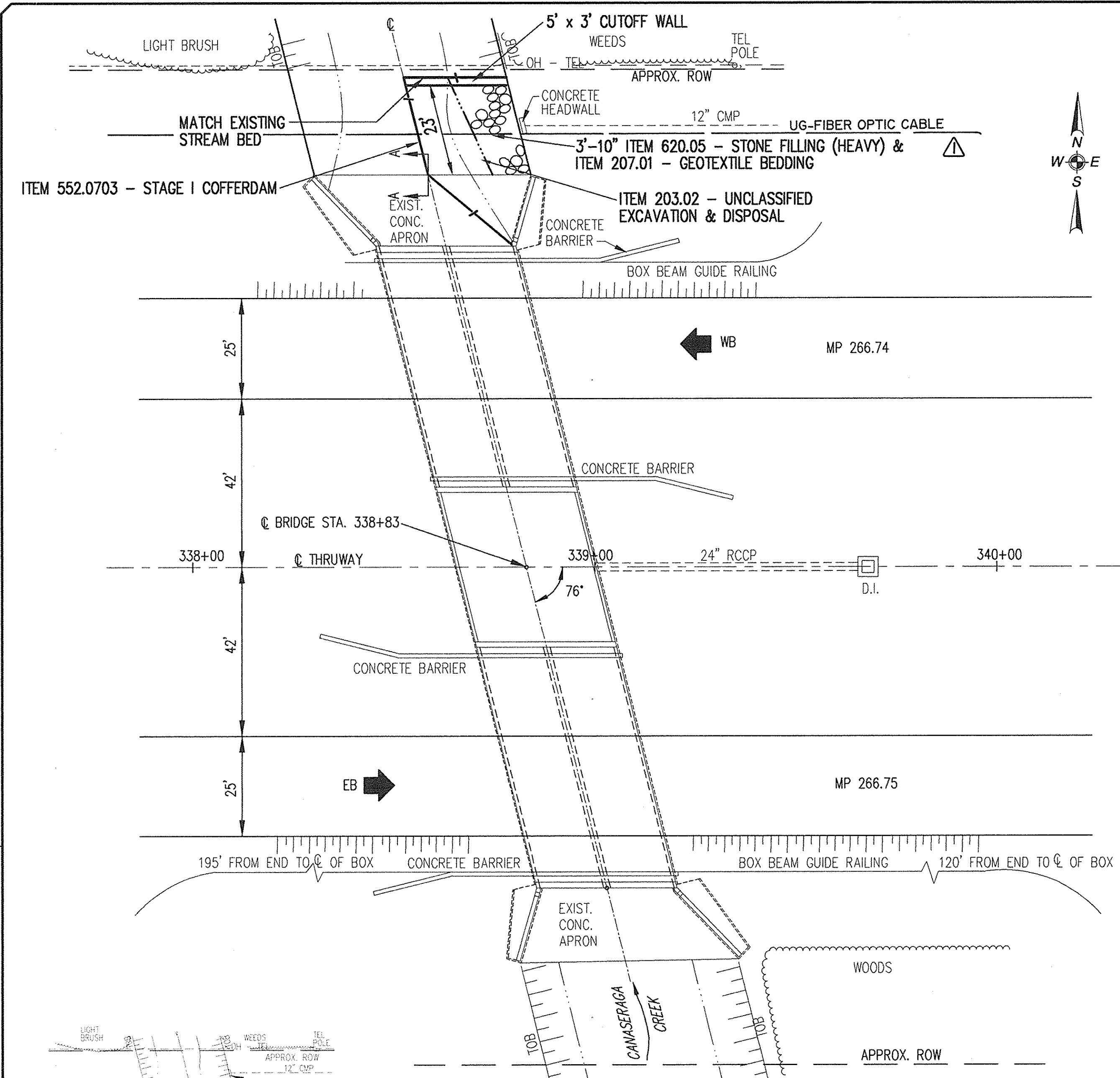
PARAMETER	FLOOD FREQUENCY			
	10-YEAR	50-YEAR	100-YEAR	500-YEAR
PEAK DISCHARGE (CFS)	1845	2900	3480	4800
FLOOD ELEVATION * Upstream Side	391.52	392.45	393.54	396.00
Downstream Side	391.25	391.35	391.37	392.77
FLOW DEPTH (FT) Upstream Side	7.92	8.85	9.94	12.40
Downstream Side	7.65	7.75	7.77	9.17
VELOCITY ** (FPS) Downstream Side	7.94	12.31	14.74	17.18
FREEBOARD (FT) Upstream Side	4.86	3.84	2.84	0.38

\* ELEVATIONS ARE NGVD (FT)  
\*\* VELOCITY AT END OF APRON

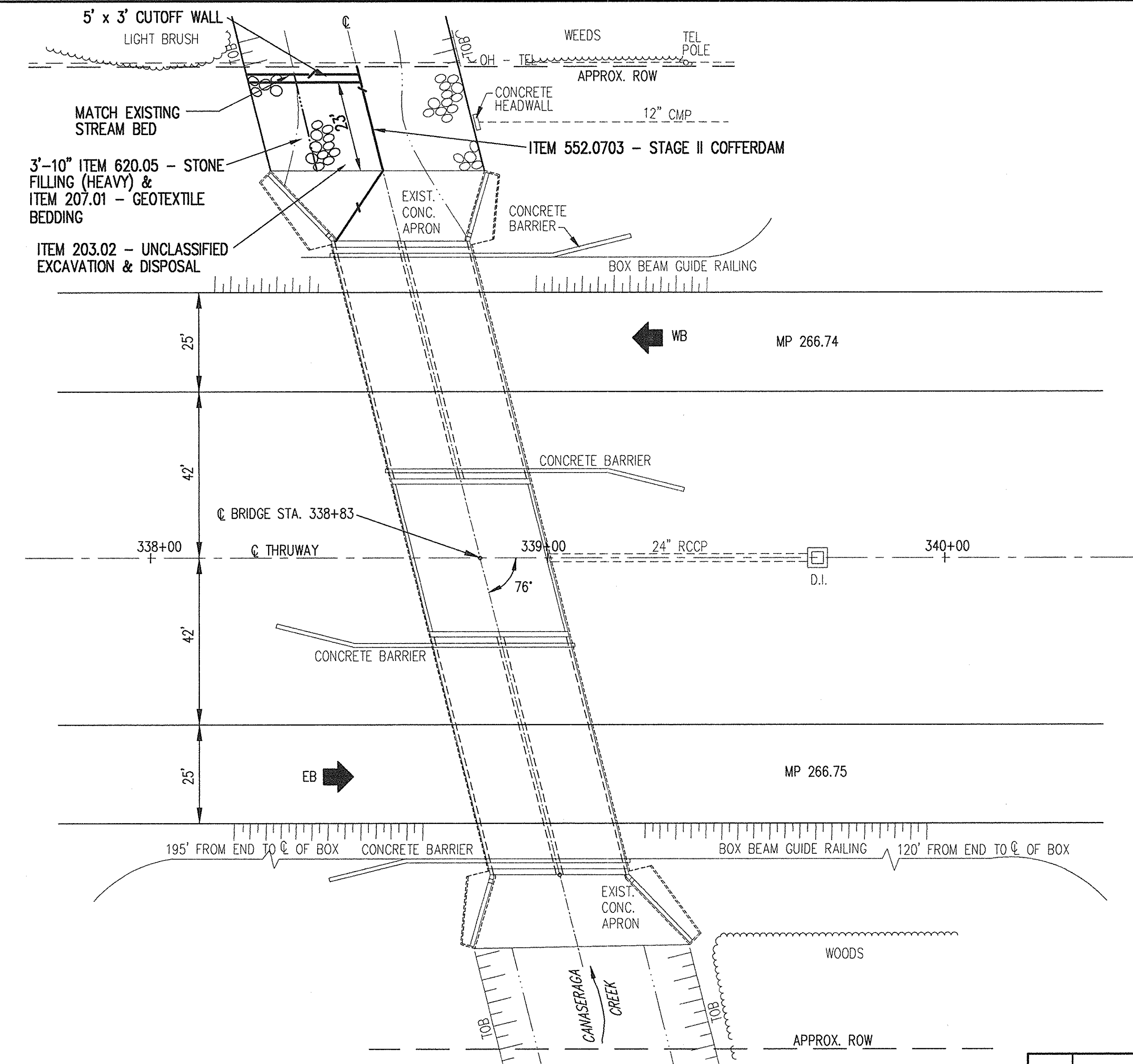
Seal of William R. VanAlst, P.E.  
7/14/98  
Date

8/5/99	TOPO REVISIONS	CHK	Δ
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
<b>LARSEN ENGINEERS</b> 700 WEST METRO PARK ROCHESTER, NEW YORK 14623-2678 (716)272-7310 FAX (716)272-0159			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT <b>BRIDGE SCOUR PROTECTION PLANS M.P. 253.52 TO M.P. 297.20</b>			
LOCATION OF PROJECT <b>CANASERAGA CREEK BRIDGE M.P. 266.74 &amp; M.P. 266.75 MADISON COUNTY</b>			
TITLE OF DRAWING <b>PROPOSED PLAN &amp; SECTION</b>			
CONTRACT NUMBER: <b>TAS 98-22B</b>		DATE: <b>JULY 1998</b>	
DRAWING NUMBER: <b>CC-2</b>			

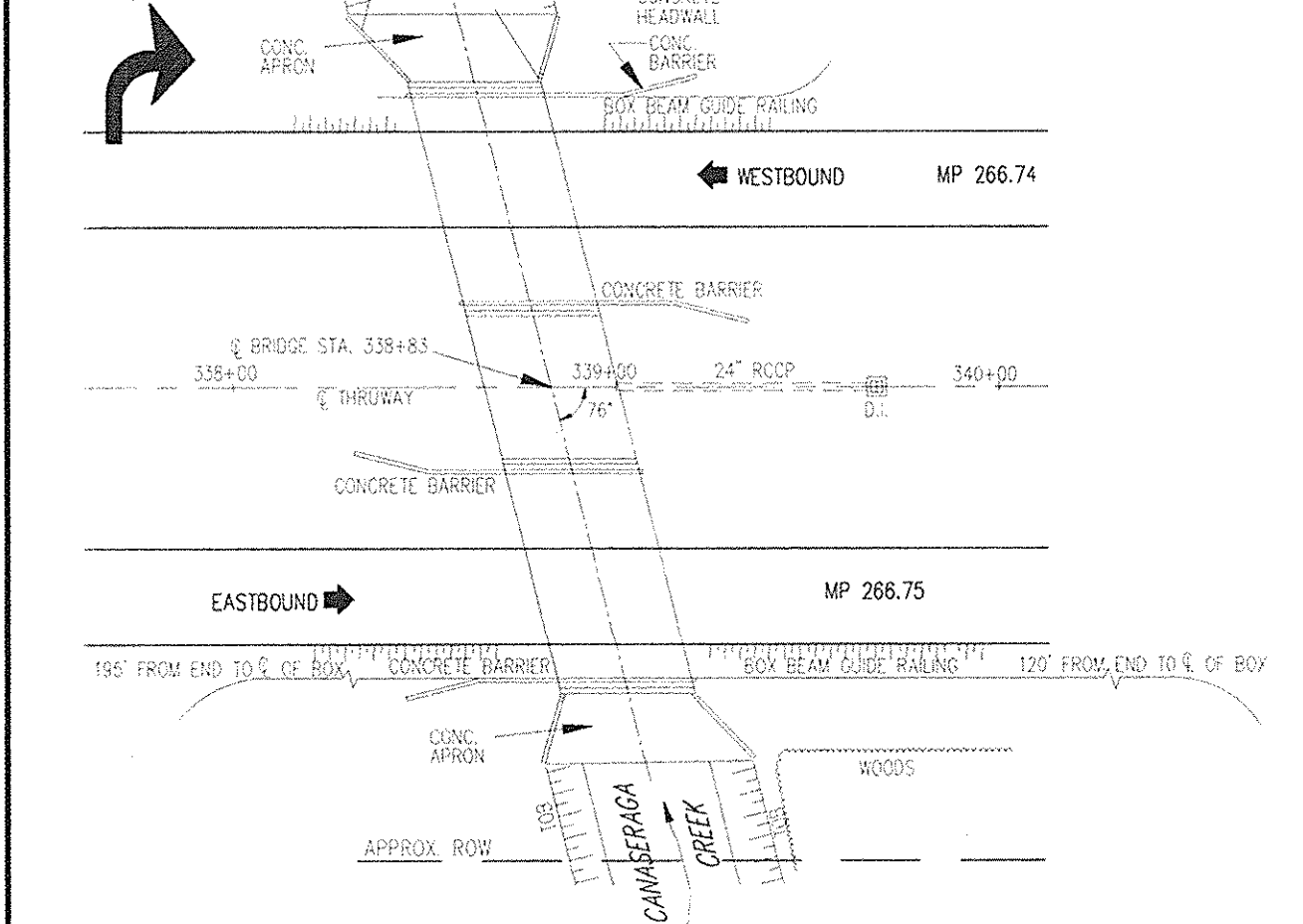




**PLAN-STAGE I CONSTRUCTION**  
1" = 20'






**PLAN-STAGE II CONSTRUCTION**  
1" = 20'



**SUGGESTED  
CONSTRUCTION ACCESS PLAN**  
1" = 50'

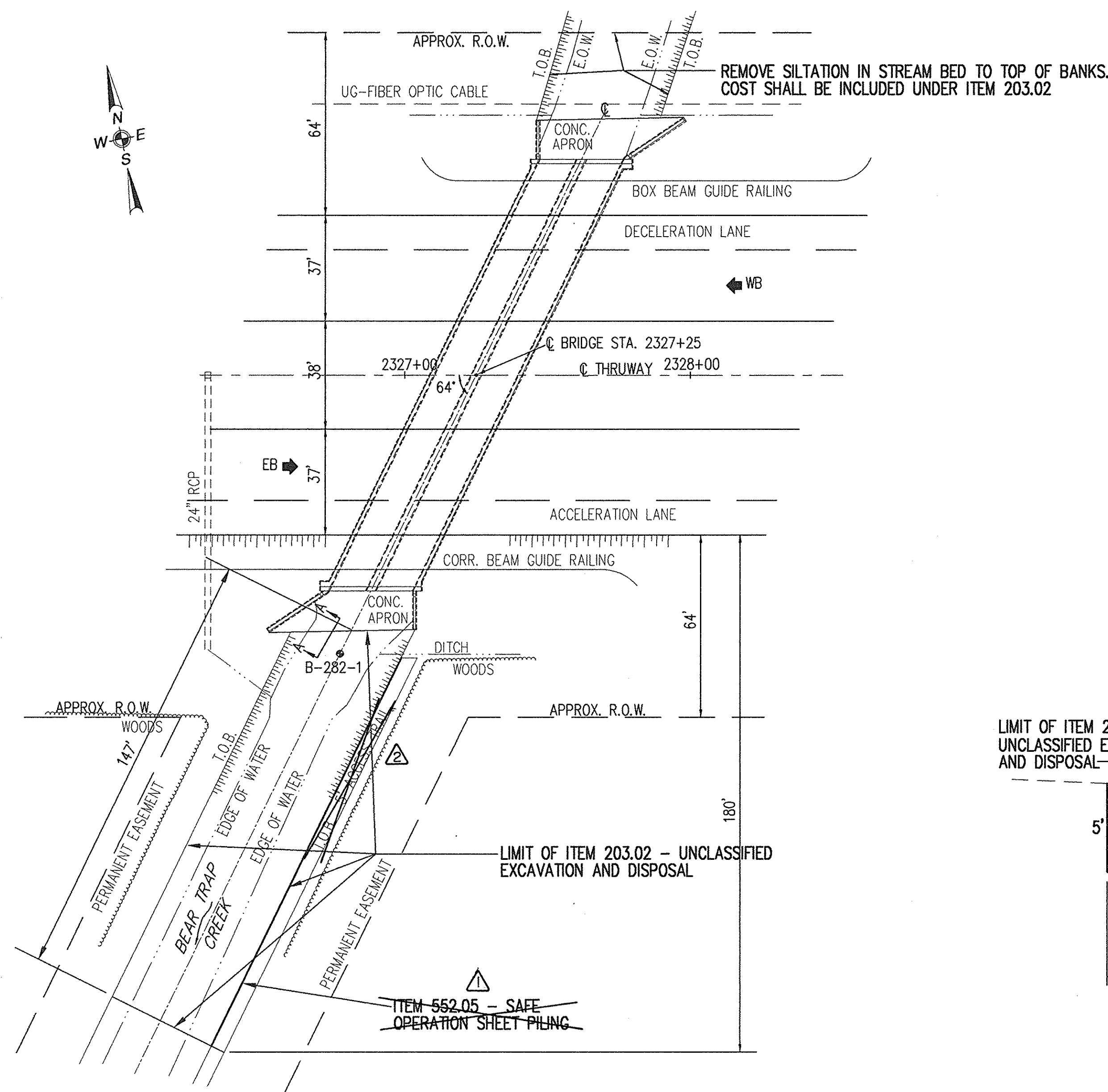
- CONSTRUCTION ACCESS NOTES:**
1. NO GUIDE RAILING REMOVALS ARE ANTICIPATED AT THIS SITE.
  2. ACCESS TO THE CONSTRUCTION AREAS WILL BE ATTAINED AT THE N.W. SIDE. BRUSH AND SMALL TREES WILL NEED TO BE REMOVED AT BOTH ACCESS SITES TO BE PAID UNDER ITEM 201.0601.

8/5/99	TOPO REVISIONS	CHK	SYN
DATE	DESCRIPTION	BY	SYN
<b>REVISIONS</b>  <b>LARSEN ENGINEERS</b> 700 WEST METRO PARK ROCHESTER, NEW YORK 14623-2678 (716)272-7310 FAX (716)272-0159			
<b>NEW YORK STATE THRUWAY AUTHORITY</b> DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
<b>TITLE OF PROJECT</b> <b>BRIDGE SCOUR PROTECTION PLANS</b> <b>M.P. 253.52 TO M.P. 297.20</b>			
<b>LOCATION OF PROJECT</b> <b>CANASERAGA CREEK BRIDGE</b> <b>M.P. 266.74 &amp; M.P. 266.75</b> <b>MADISON COUNTY</b>			
<b>TITLE OF DRAWING</b> <b>CONSTRUCTION STAGING PLAN</b>			
		<b>CONTRACT NUMBER:</b> <b>TAS 98-22B</b>	
<b>DATE:</b> <b>JULY 1998</b>		<b>DRAWING NUMBER:</b> <b>CC-3</b>	

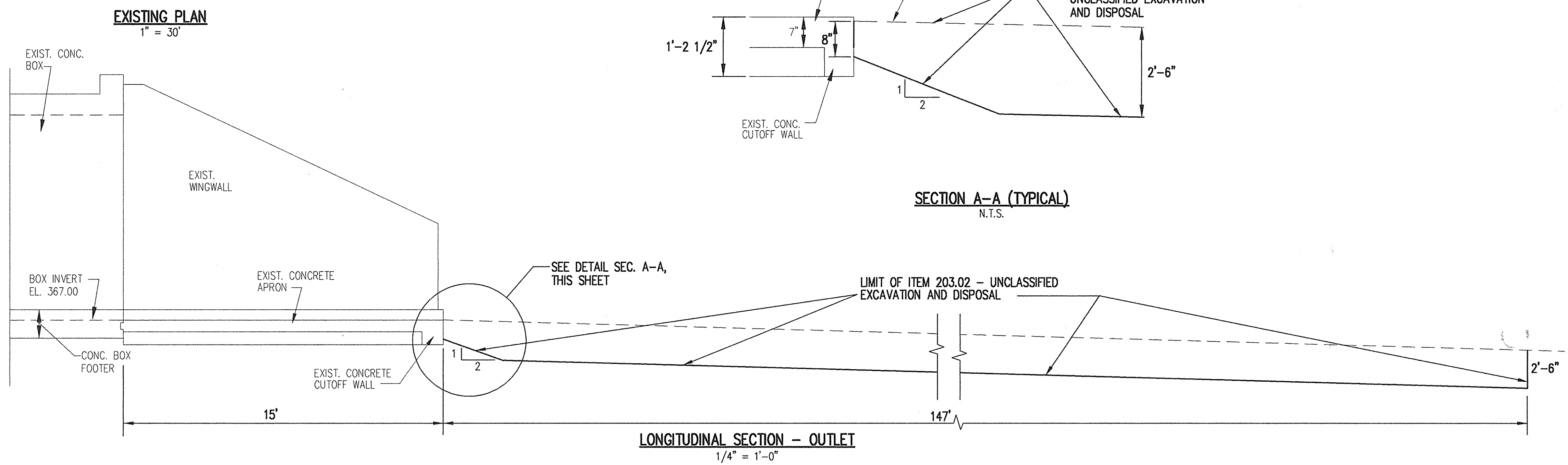
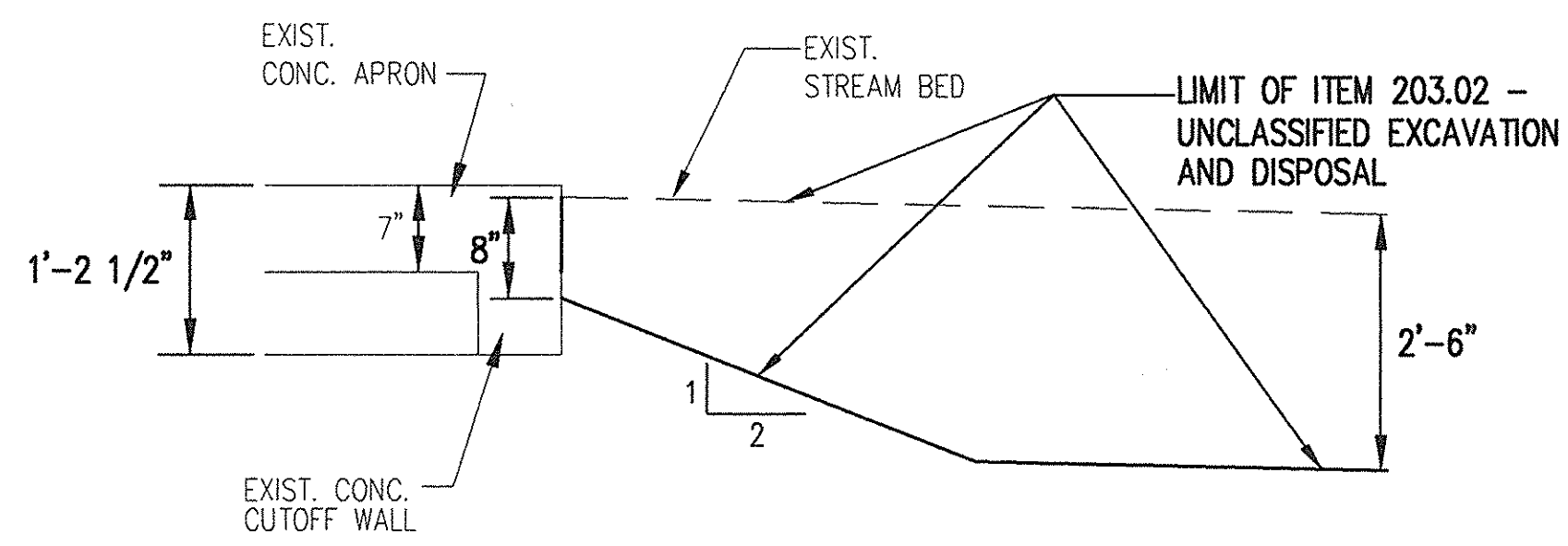
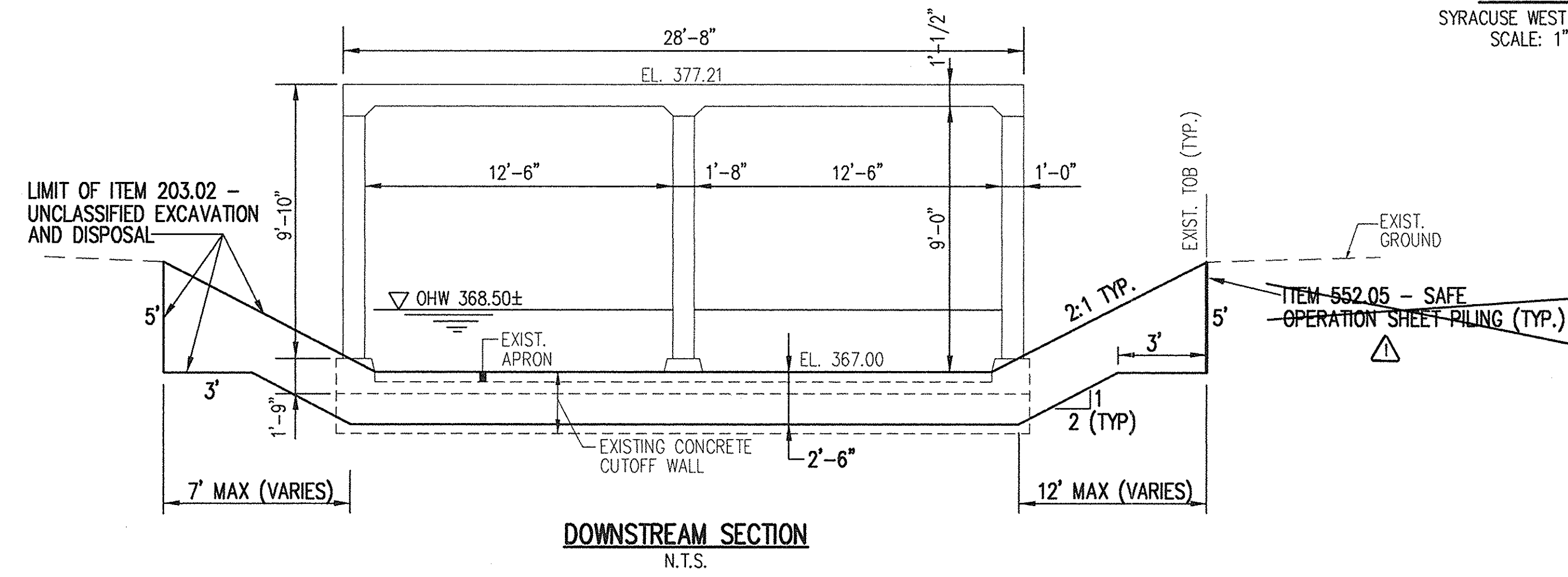
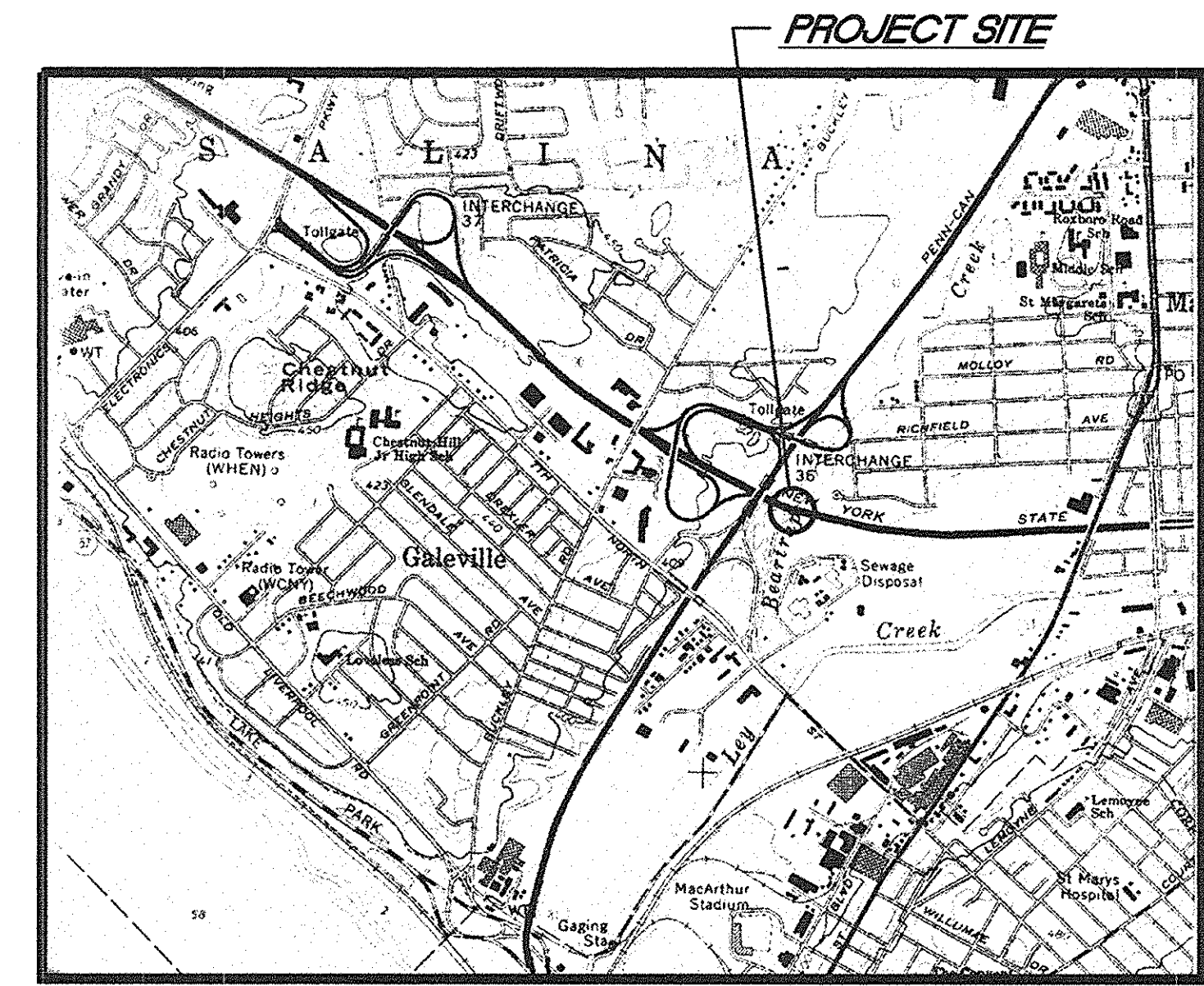
  
 William R. VanAlst, P.E.  
 Date 7/14/98

IN CHARGE OF: W.R.V.  
 DESIGNED BY: R.D.P.  
 DRAFTED BY: J.W.T.  
 CHECKED BY: J.D.B.

CHECKED BY: J.D.B.  
DRAFTED BY: J.W.T.  
DESIGNED BY: R.D.P.  
IN CHARGE OF: W.R.V.



NOTES:  
1. ELEVATIONS ARE TAKEN FROM ORIGINAL CONSTRUCTION PLANS OT 46-2 DATED JULY 31, 1946.



STATE OF NEW YORK  
WILLIAM R. VAN ALST  
LICENSED PROFESSIONAL ENGINEER  
NO. 85583  
7/14/98  
William R. VanAlst, P.E. Date

DATE	DESCRIPTION	BY	SYM.
8/5/99	TOPO REVISIONS	CHK	△
8/5/99	AS BUILT REVISIONS	CHK	△

REVISIONS

**LARSEN ENGINEERS**  
700 WEST METRO PARK  
ROCHESTER, NEW YORK 14623-2678  
(716)272-7310 FAX (716)272-0159

NEW YORK STATE THRUWAY AUTHORITY  
DEPARTMENT OF MAINTENANCE AND ENGINEERING  
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT  
**BRIDGE SCOUR PROTECTION PLANS**  
M.P. 253.52 TO M.P. 297.20

LOCATION OF PROJECT  
**BEAR TRAP CREEK BRIDGE**  
M.P. 282.62  
ONONDAGA COUNTY

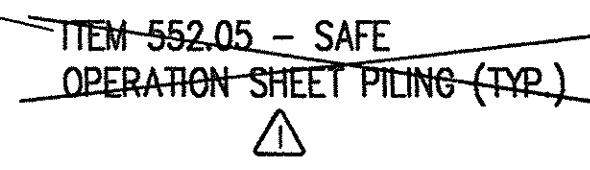
TITLE OF DRAWING  
**EXISTING PLAN & SECTION**

CONTRACT NUMBER:  
**TAS 98-22B**

DATE:  
**JULY 1998**

DRAWING NUMBER:  
**BT-1**







## SUMMARY OF HYDROLOGY AND HYDRAULICS

\* Elevations are NGVD (FT)  
\*\* Freeboard measured from low chord elevation of 377 (from Flood Insurance Study)



LONGITUDINAL SECTION - OUTLET  
1/4" = 1'-0"

A circular professional engineer seal for the State of New York. The outer ring contains the text "STATE OF NEW YORK" at the top and "LICENSED PROFESSIONAL ENGINEER" at the bottom. Inside the ring, the name "WILLIAM R. VAN ALST" is written in an arc. In the center is the coat of arms of the State of New York, featuring a shield with a sun, a river, and a plow, flanked by a Native American and a Dutchman. Below the shield is a scroll with the motto "EUREKA". The number "NO. 05528" is printed at the bottom of the seal.

8/5/99	TOPO REVISIONS	CHK	
8/5/99	AS BUILT REVISIONS	CHK	
DATE	DESCRIPTION	BY	SYM.

## REVISIONS



NEW YORK STATE THRUWAY AUTHORITY  
DEPARTMENT OF MAINTENANCE AND ENGINEERING  
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT  
**BRIDGE SCOUR PROTECTION PLANS  
M.P. 253.52 TO M.P. 297.20**

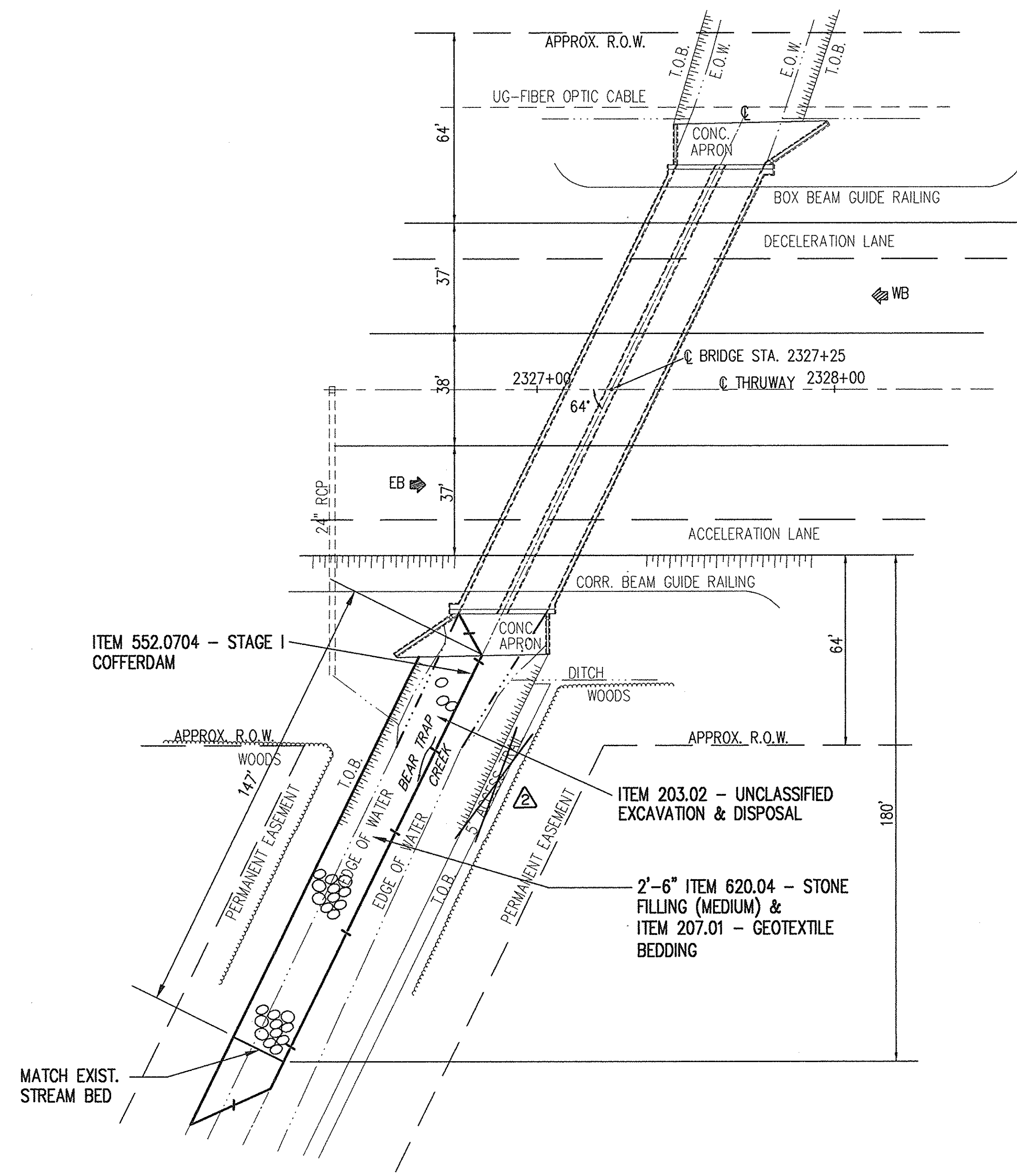
LOCATION OF PROJECT  
BEAR TRAP CREEK BRIDGE  
M.P. 282.62  
ONONDAGA COUNTY

### PROPOSED PLAN & SECTION

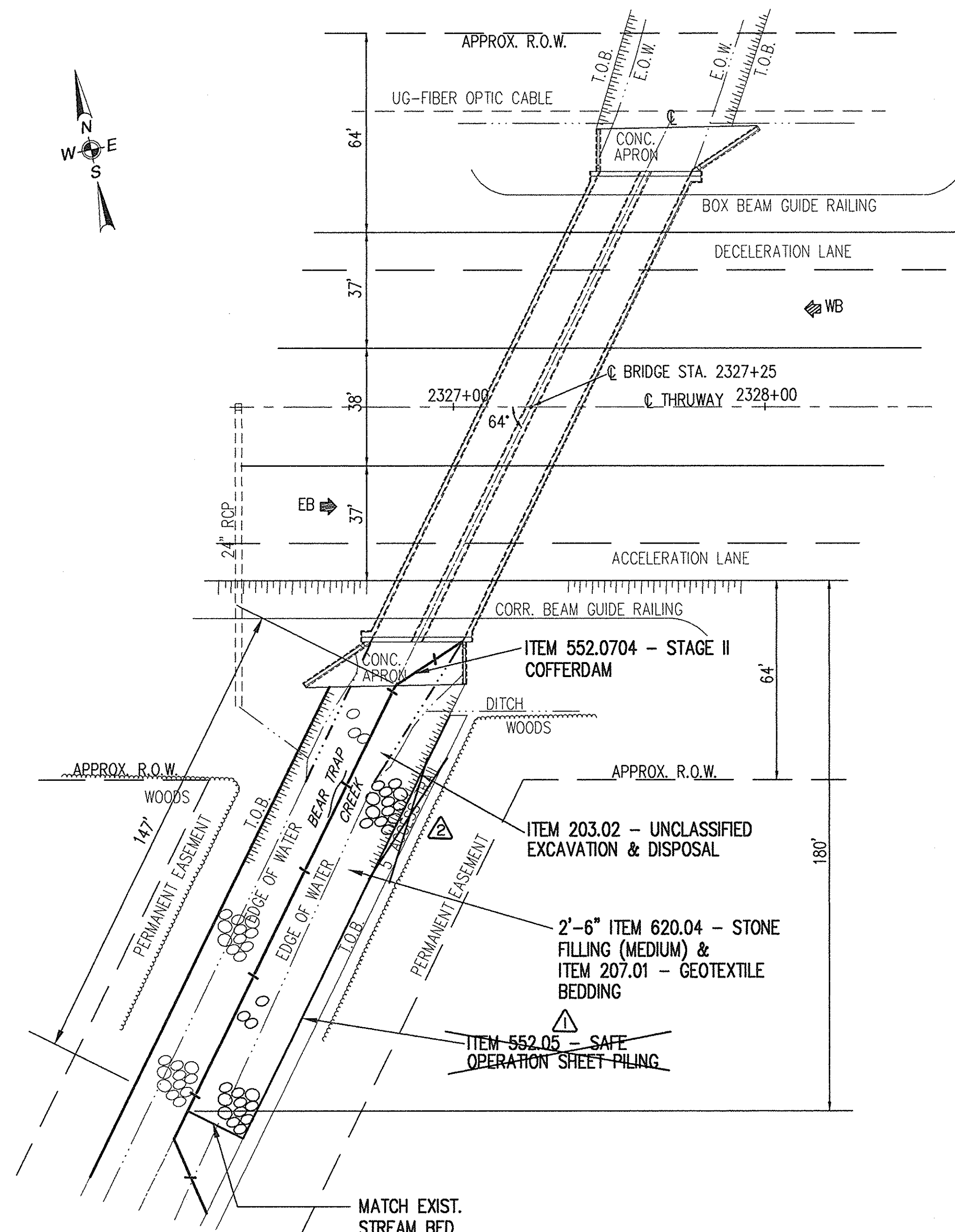


CONTRACT NUMBER:	TAS 98-22B
DATE:	JULY 1998
DRAWING NUMBER:	BT-2

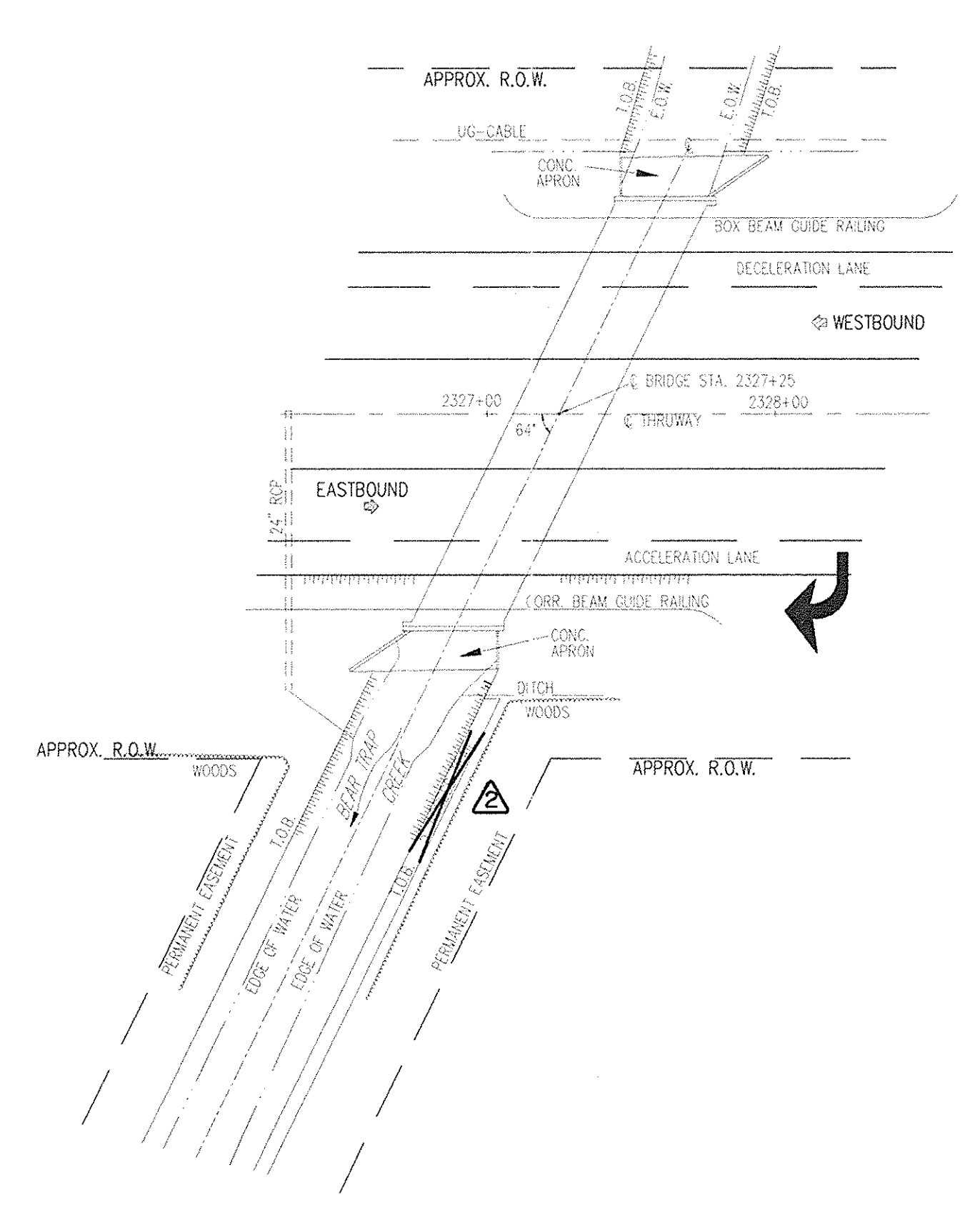
CHECKED BY: J.D.B.  
DRAFTED BY: J.W.T.  
DESIGNED BY: R.D.P.  
IN CHARGE OF: W.R.V.



PLAN - STAGE I CONSTRUCTION  
1" = 30'






PLAN - STAGE II CONSTRUCTION  
1" = 30'



SUGGESTED  
CONSTRUCTION ACCESS PLAN  
1" = 50'

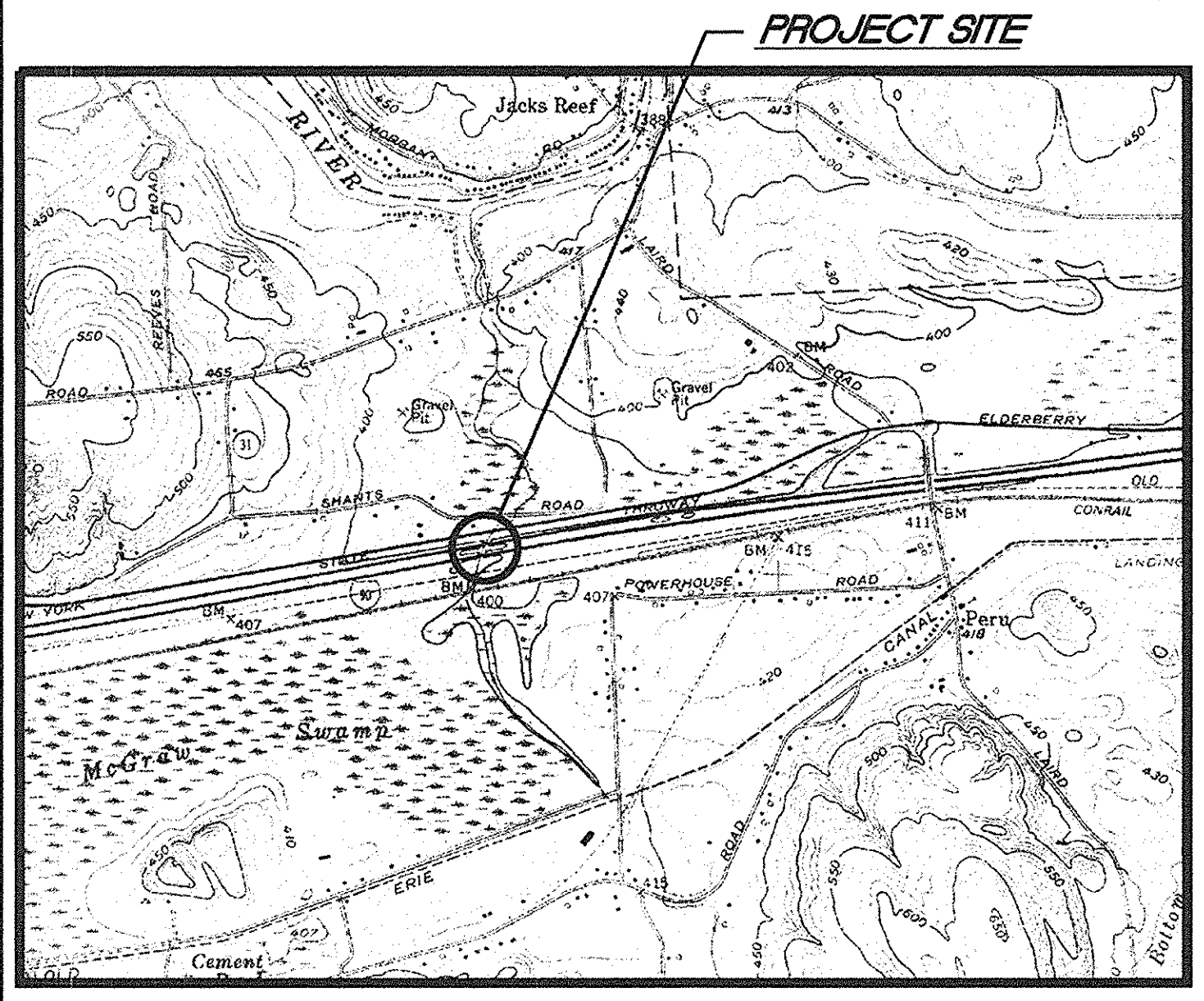
- CONSTRUCTION ACCESS NOTES:
1. NO GUIDE RAILING REMOVALS ARE ANTICIPATED AT THIS SITE.
  2. ACCESS TO THE CONSTRUCTION AREAS WILL BE ATTAINED AT THE S.E. SIDE. BRUSH AND SMALL TREES WILL NEED TO BE REMOVED AT BOTH ACCESS SITES TO BE PAID UNDER ITEM 201.0601.

8/5/99	TOPO REVISIONS	CHK	△
8/5/99	AS BUILT REVISIONS	CHK	△
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
 <b>LARSEN ENGINEERS</b> 700 WEST METRO PARK ROCHESTER, NEW YORK 14623-2678 (716)272-7310 FAX (716)272-0159			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT <b>BRIDGE SCOUR PROTECTION PLANS M.P. 253.52 TO M.P. 297.20</b>			
LOCATION OF PROJECT <b>BEAR TRAP CREEK BRIDGE M.P. 282.62 ONONDAGA COUNTY</b>			
TITLE OF DRAWING <b>CONSTRUCTION STAGING PLAN</b>			
		CONTRACT NUMBER:	TAS 98-22B
		DATE:	JULY 1998
		DRAWING NUMBER:	BT-3

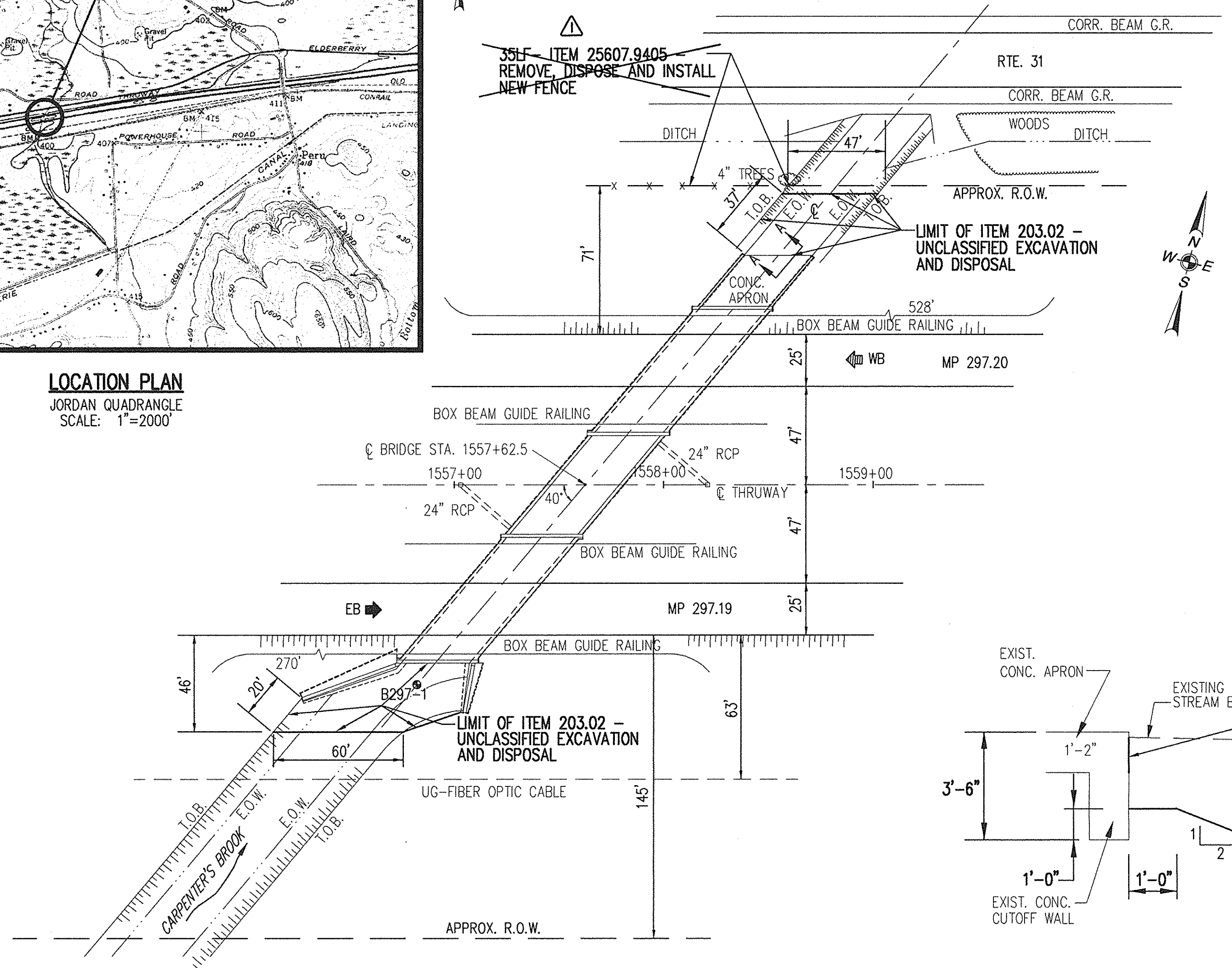
  
William R. VanAlst, P.E.  
7/14/98  
Date



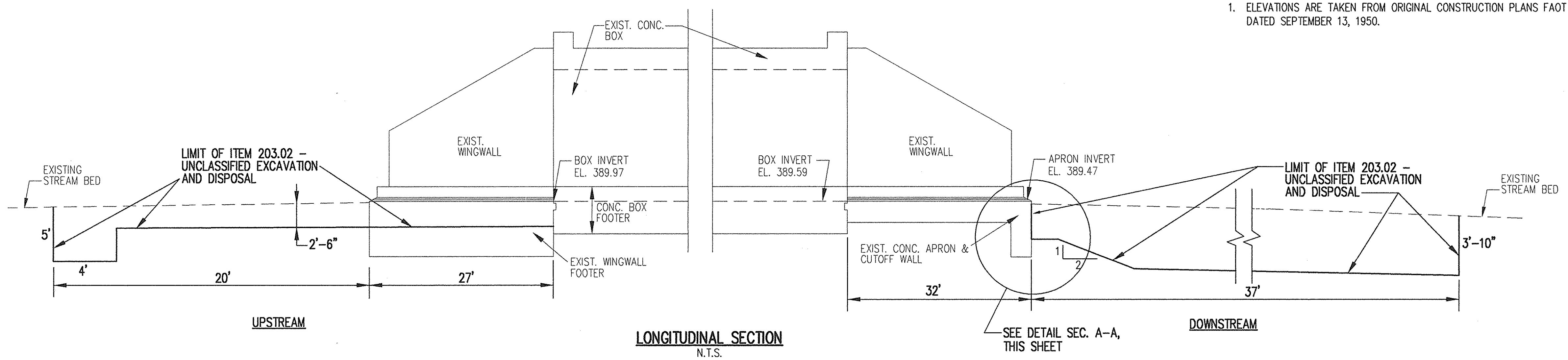
CHECKED BY: J.D.B.  
DRAFTED BY: J.W.T.  
DESIGNED BY: R.D.P.  
IN CHARGE OF: W.R.V.



**LOCATION PLAN**  
JORDAN QUADRANGLE  
SCALE: 1"=2000'

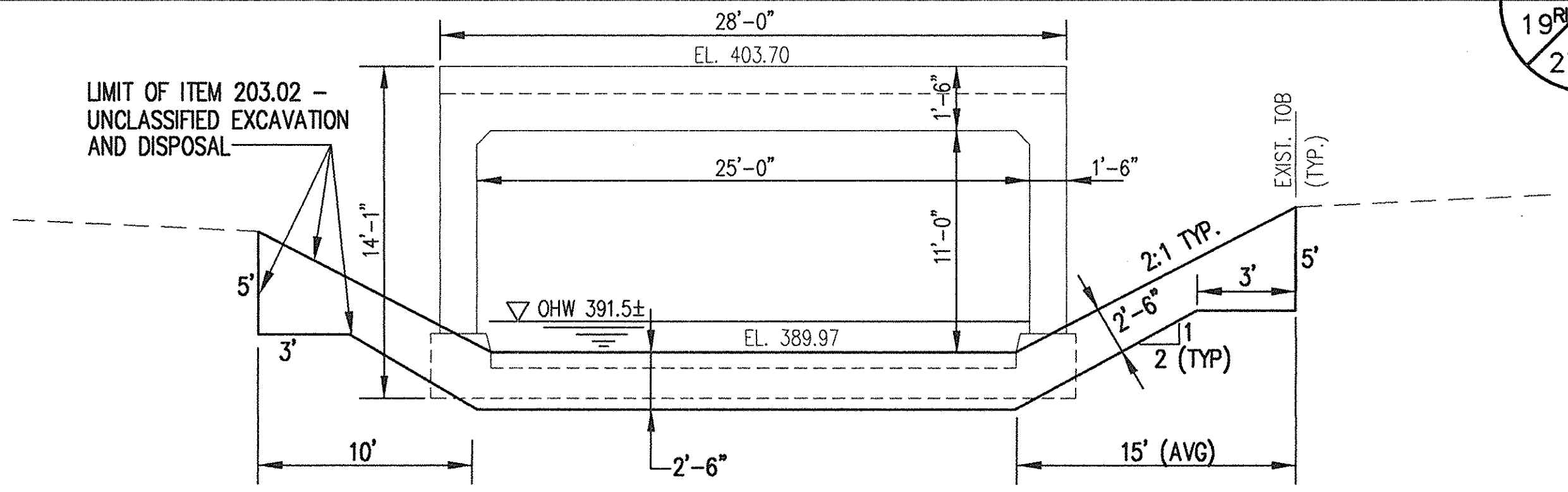
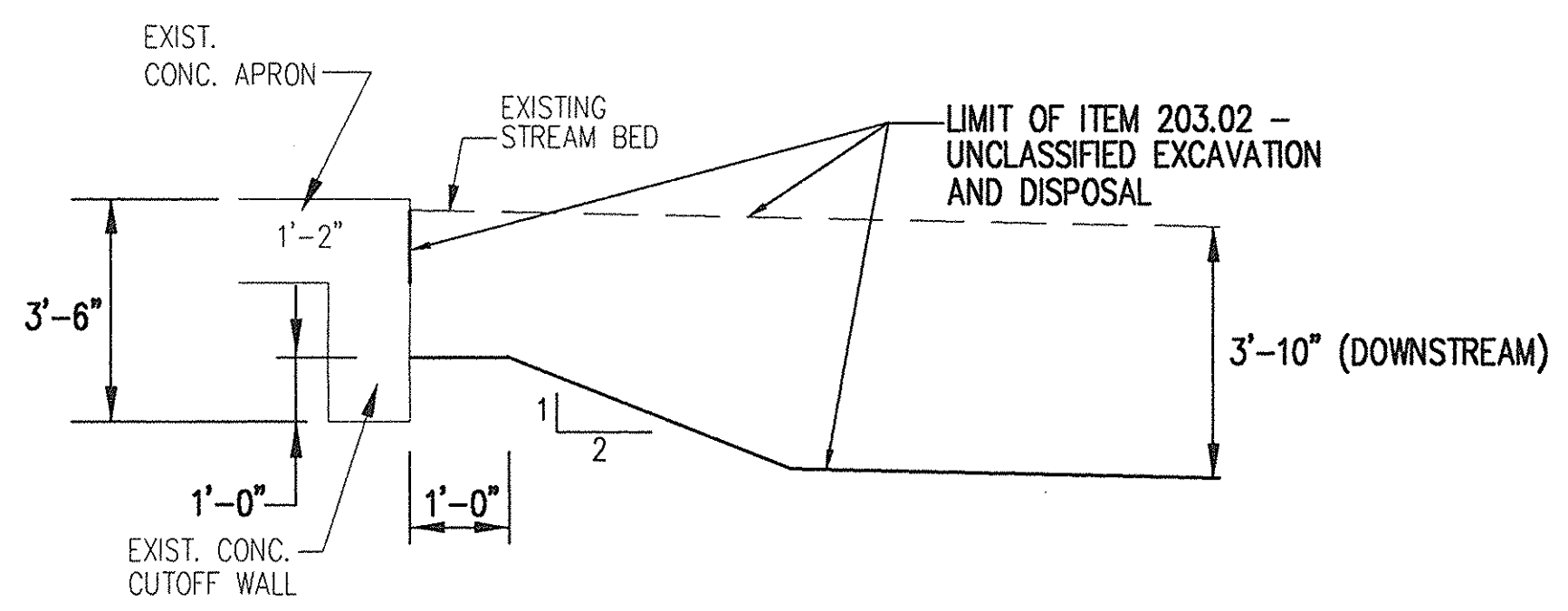


**EXISTING PLAN**  
1"=40'



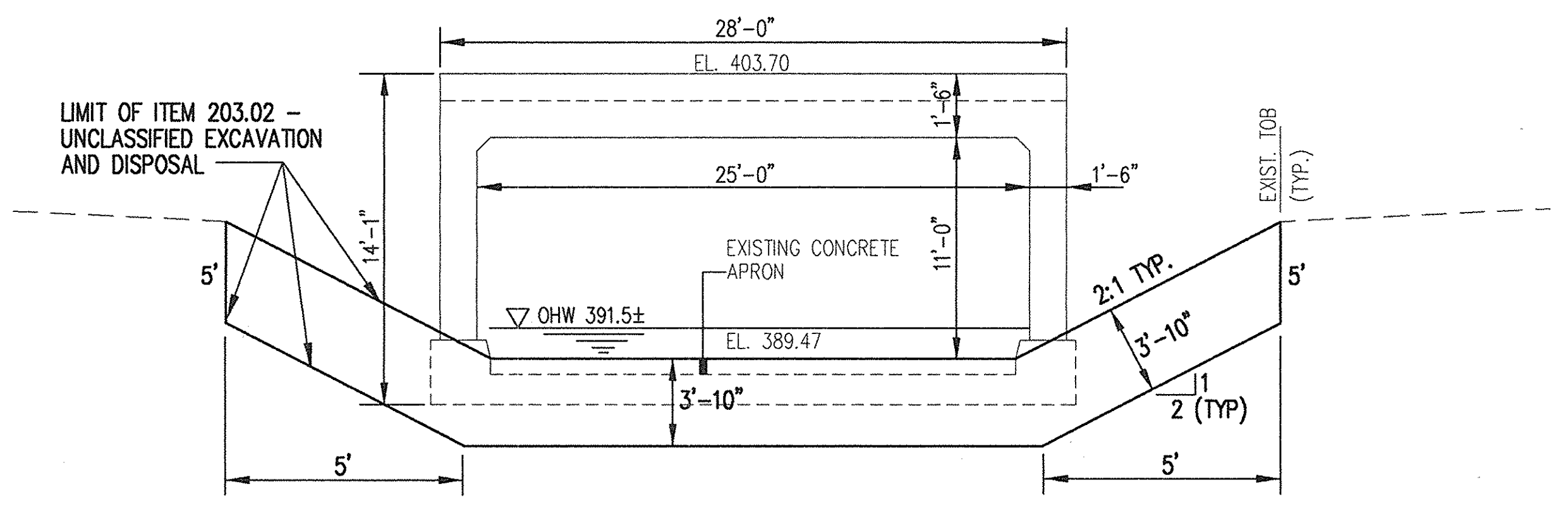
**LONGITUDINAL SECTION**  
N.T.S.

**SECTION A-A (TYPICAL)**  
N.T.S.



**UPSTREAM SECTION**  
N.T.S.

NOTE: EXISTING WINGWALLS NOT SHOWN FOR CLARITY



**DOWNSTREAM SECTION**  
N.T.S.

- NOTES:**
- ELEVATIONS ARE TAKEN FROM ORIGINAL CONSTRUCTION PLANS FAOT 50-8 DATED SEPTEMBER 13, 1950.

*William R. VanAlst* 7/14/98  
William R. VanAlst, P.E. Date

DATE	DESCRIPTION	BY	SYM.
8/5/99	AS BUILT REVISIONS	CHK	▲

**REVISIONS**

**LARSEN ENGINEERS**  
700 WEST METRO PARK  
ROCHESTER, NEW YORK 14623-2678  
(716)272-7310 FAX (716)272-0159

NEW YORK STATE THRUWAY AUTHORITY  
DEPARTMENT OF MAINTENANCE AND ENGINEERING  
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT  
**BRIDGE SCOUR PROTECTION PLANS**  
M.P. 253.52 TO M.P. 297.20

LOCATION OF PROJECT  
**CARPENTER'S BROOK BRIDGE**  
M.P. 297.19 & M.P. 297.20  
ONONDAGA COUNTY

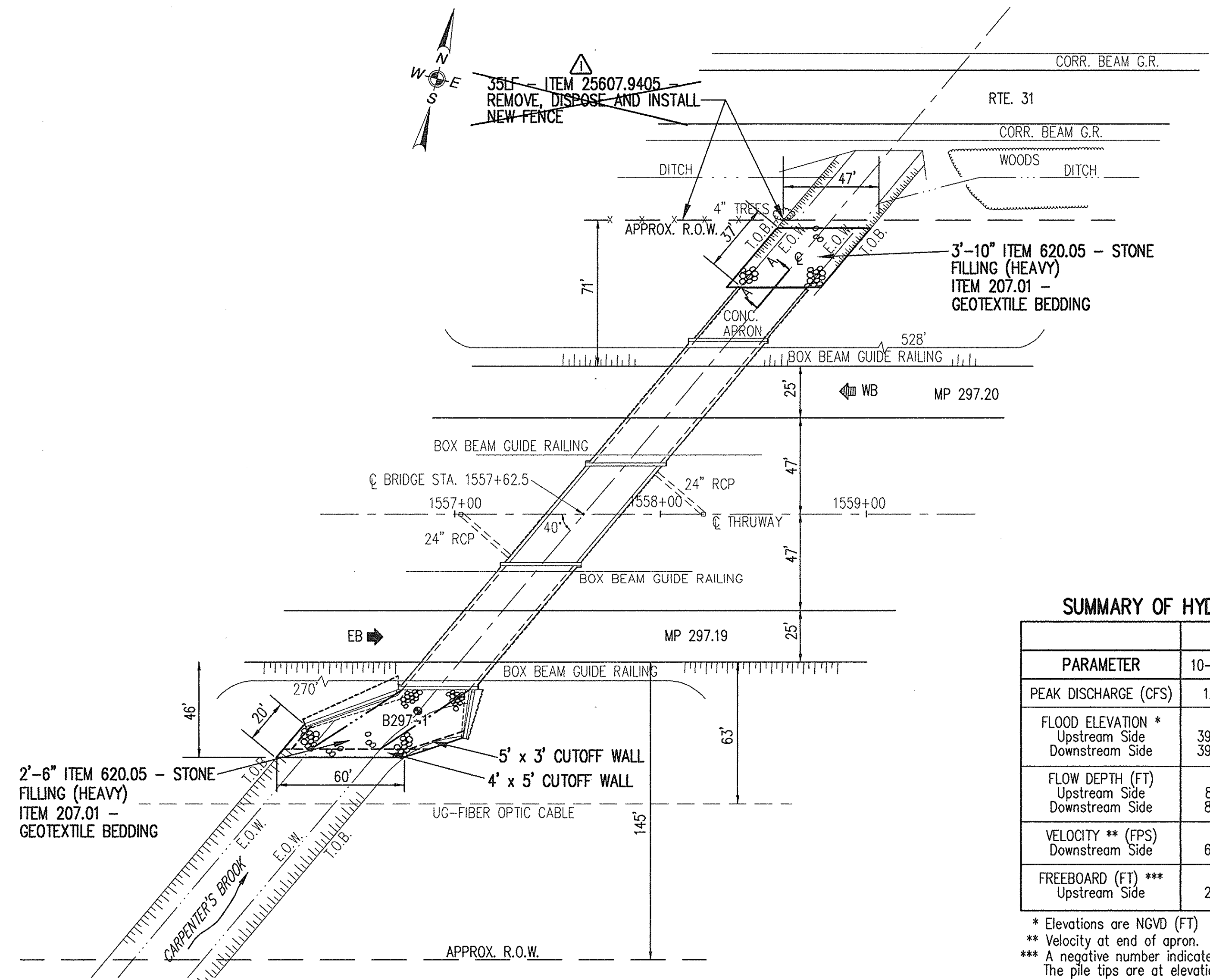
TITLE OF DRAWING  
**EXISTING PLAN & SECTION**

CONTRACT NUMBER:  
**TAS 98-22B**

DATE:  
**JULY 1998**

DRAWING NUMBER:  
**CB-1**

CHECKED BY: J.D.B.  
DRAFTED BY: J.W.T.  
DESIGNED BY: R.D.P.  
IN CHARGE OF: W.R.V.

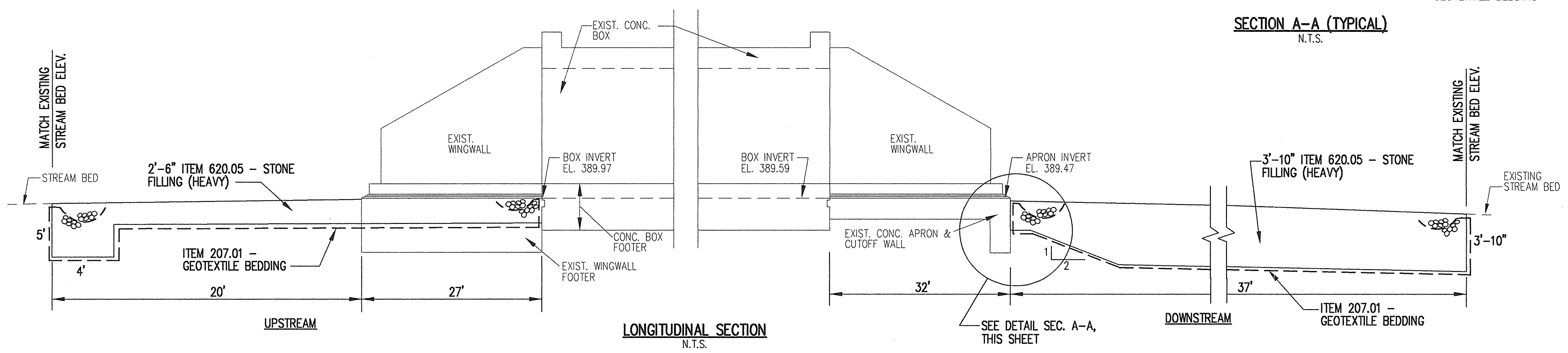


PLAN  
1" = 40'

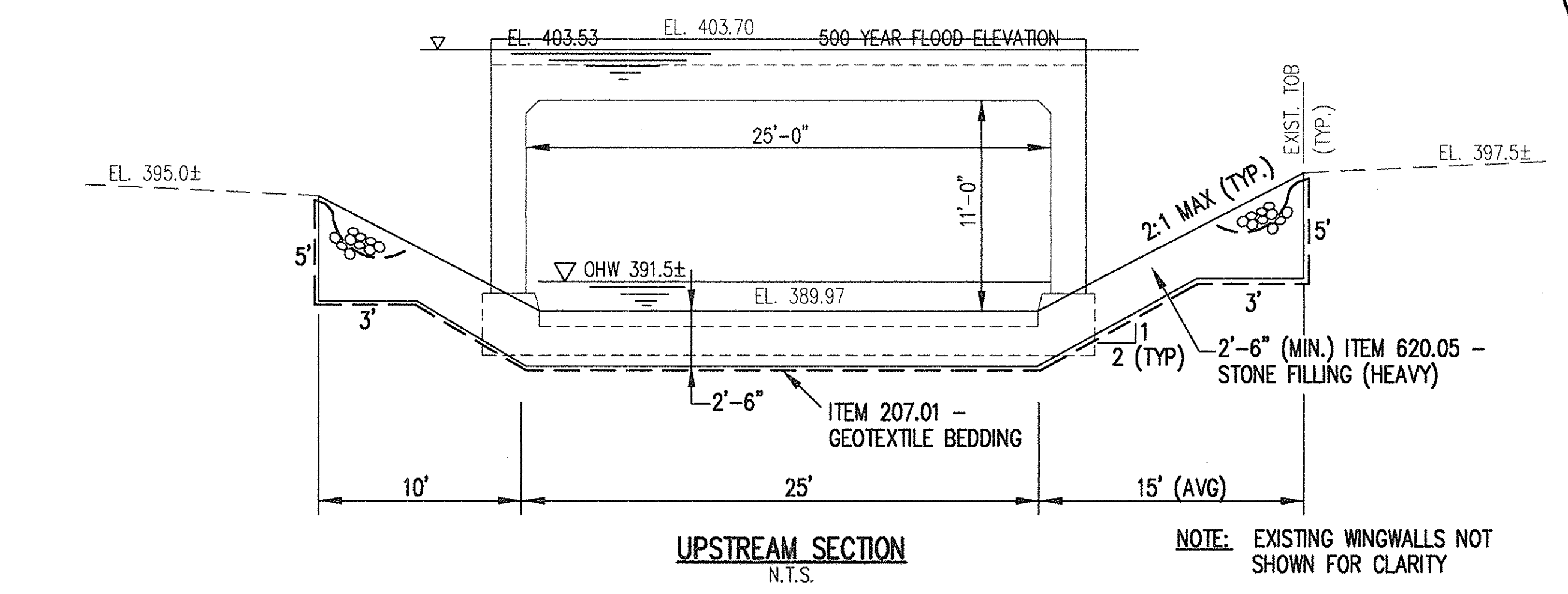
SUMMARY OF HYDROLOGY AND HYDRAULICS

PARAMETER	FLOOD FREQUENCY			
	10-YEAR	50-YEAR	100-YEAR	500-YEAR
PEAK DISCHARGE (CFS)	1272	1779	1976	2475
FLOOD ELEVATION *				
Upstream Side	397.60	400.59	401.07	403.53
Downstream Side	397.43	399.75	400.09	402.41
FLOW DEPTH (FT)				
Upstream Side	8.10	11.09	11.57	14.03
Downstream Side	8.03	10.35	10.69	13.01
VELOCITY ** (FPS)				
Upstream Side	6.98	7.55	8.12	8.34
Downstream Side	6.98	7.55	8.12	8.34
FREEBOARD (FT) ***				
Upstream Side	2.90	-0.09	-0.57	-3.03

\* Elevations are NGVD (FT)  
\*\* Velocity at end of apron.  
\*\*\* A negative number indicates the bridge is under pressure  
The pile tips are at elevation 328.5.

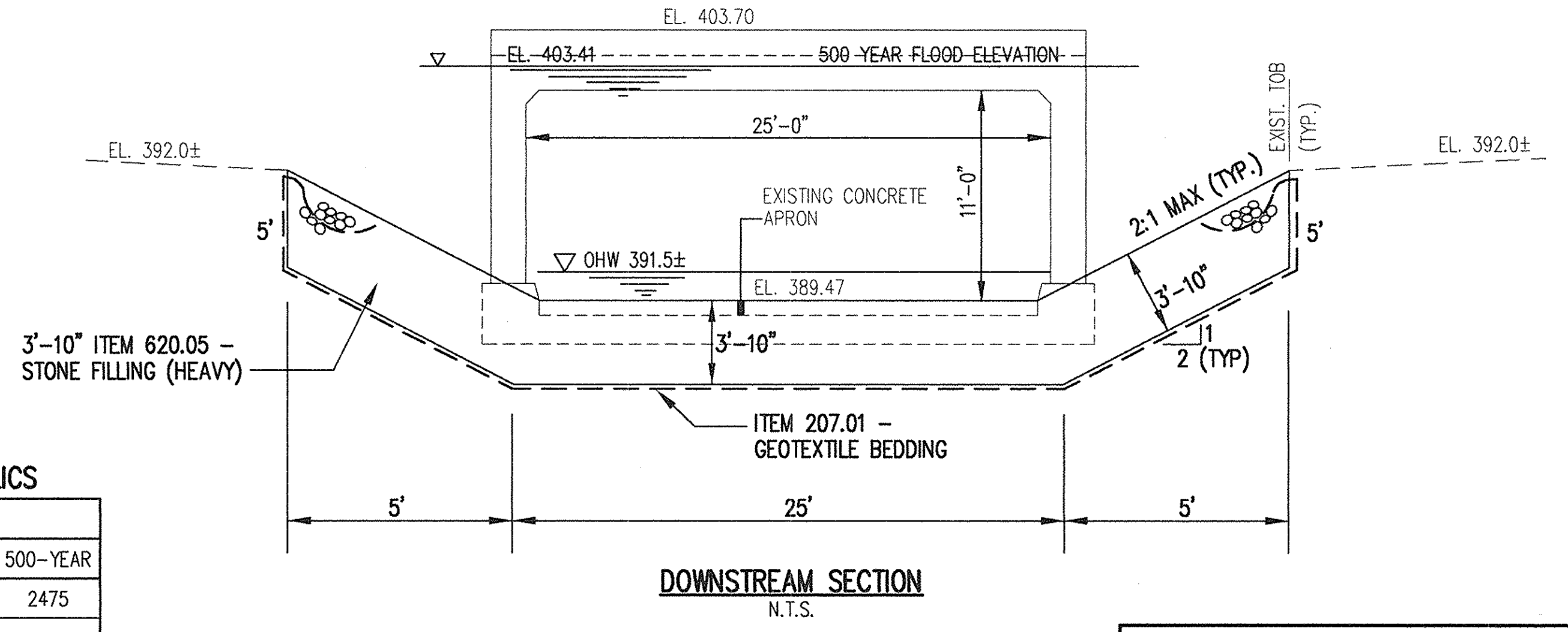


LONGITUDINAL SECTION  
N.T.S.

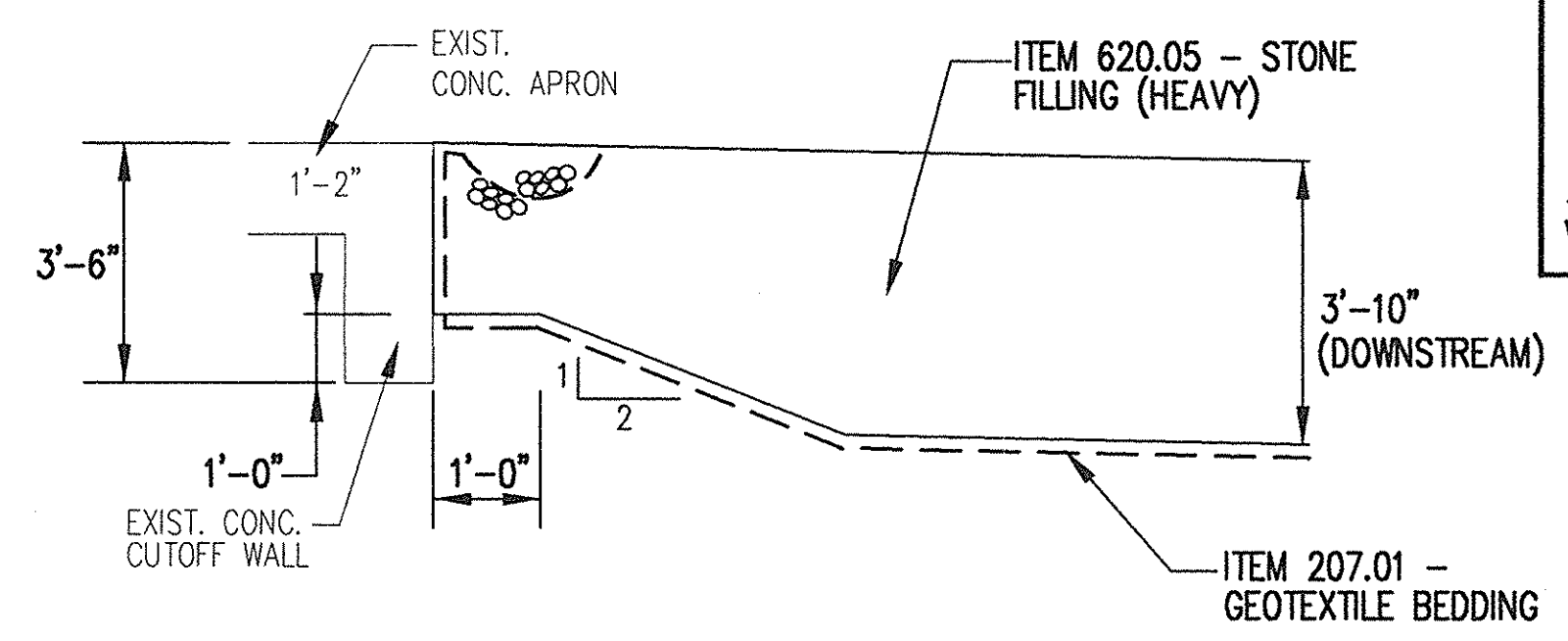


UPSTREAM SECTION  
N.T.S.

NOTE: EXISTING WINGWALLS NOT SHOWN FOR CLARITY



DOWNSTREAM SECTION  
N.T.S.



SECTION A-A (TYPICAL)  
N.T.S.



William R. VanAlst 7/14/98  
William R. VanAlst, P.E. Date

9/5/99	AS BUILT REVISIONS	CHK	Δ
DATE	DESCRIPTION	BY	SYM.

REVISIONS



NEW YORK STATE THRUWAY AUTHORITY  
DEPARTMENT OF MAINTENANCE AND ENGINEERING  
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT  
BRIDGE SCOUR PROTECTION PLANS  
M.P. 253.52 TO M.P. 297.20

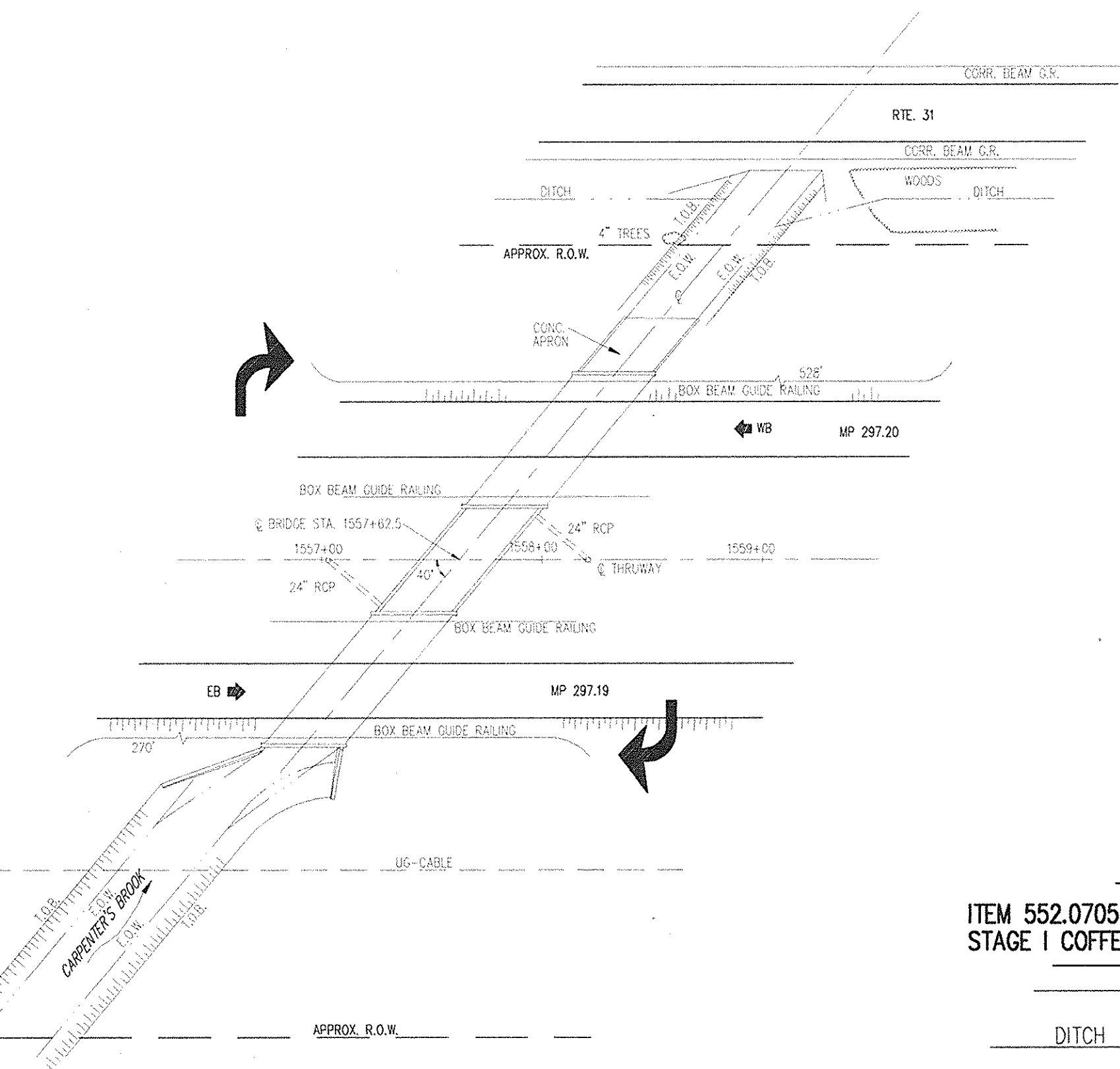
LOCATION OF PROJECT  
CARPENTER'S BROOK BRIDGE  
M.P. 297.19 & M.P. 297.20  
ONONDAGA COUNTY

TITLE OF DRAWING  
PROPOSED PLAN & SECTION

CONTRACT NUMBER:  
TAS 98-22B  
DATE:  
JULY 1998  
DRAWING NUMBER:  
CB-2

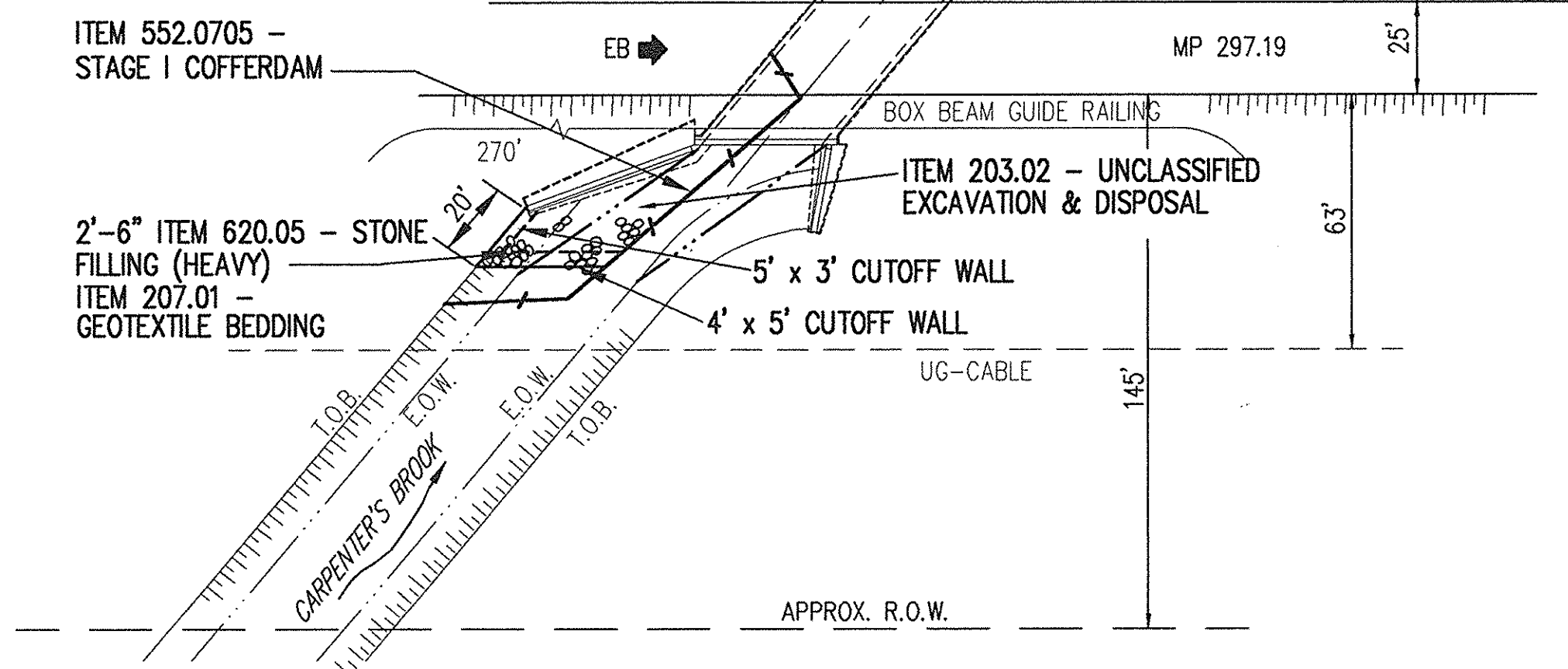


CHECKED BY: J.D.B.  
DRAFTED BY: J.W.T.  
DESIGNED BY: R.D.P.  
IN CHARGE OF: W.R.V.

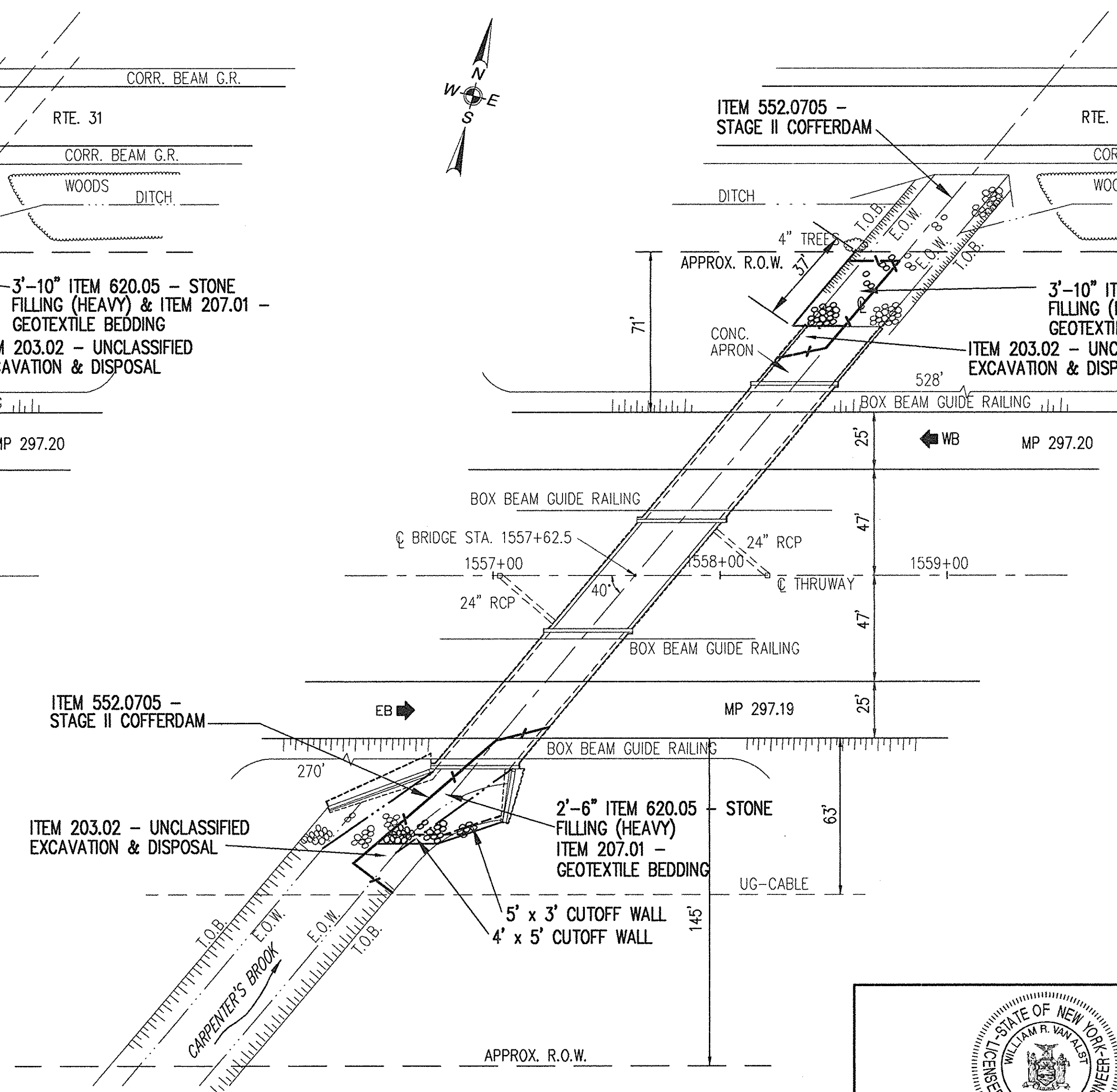


**SUGGESTED  
CONSTRUCTION ACCESS PLAN**  
1" = 60'


- CONSTRUCTION ACCESS NOTES:**
1. NO GUIDE RAILING REMOVALS ARE ANTICIPATED AT THIS SITE.
  2. ACCESS TO THE CONSTRUCTION AREAS WILL BE ATTAINED AT THE N.W. AND S.E. SIDES. BRUSH AND SMALL TREES WILL NEED TO BE REMOVED AT BOTH ACCESS SITES TO BE PAID UNDER ITEM 201.0601.





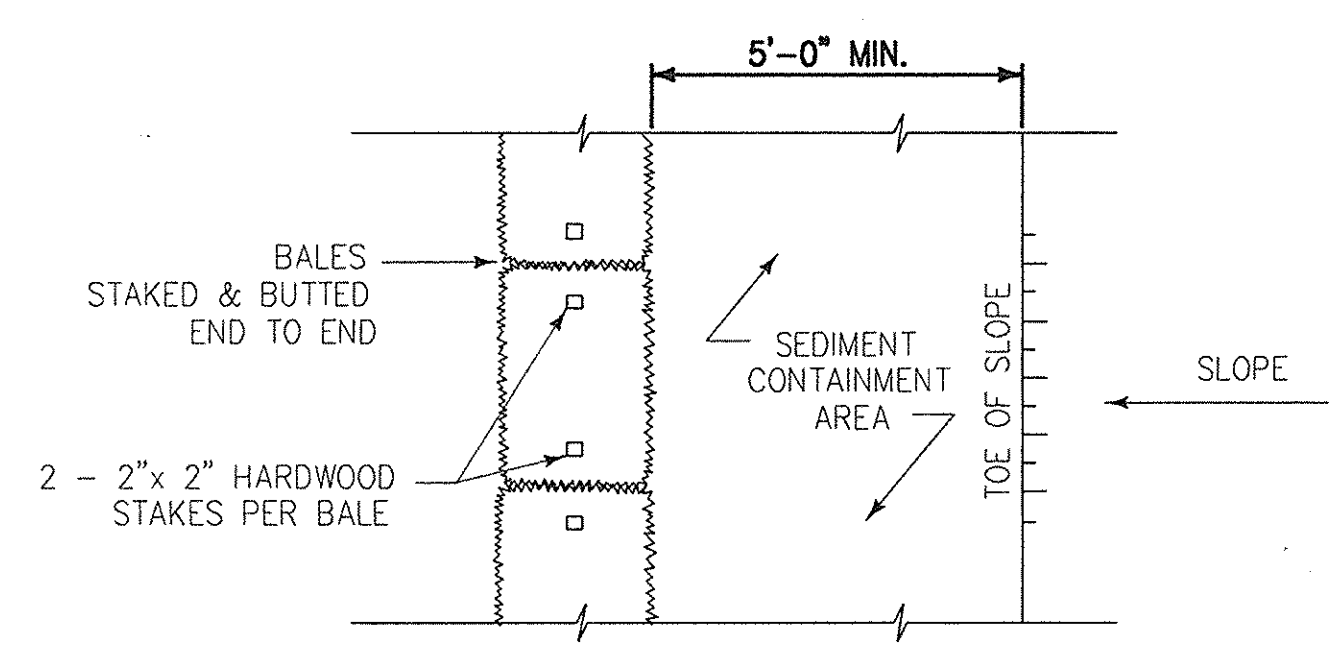
**PLAN - STAGE I CONSTRUCTION**  
1" = 40'



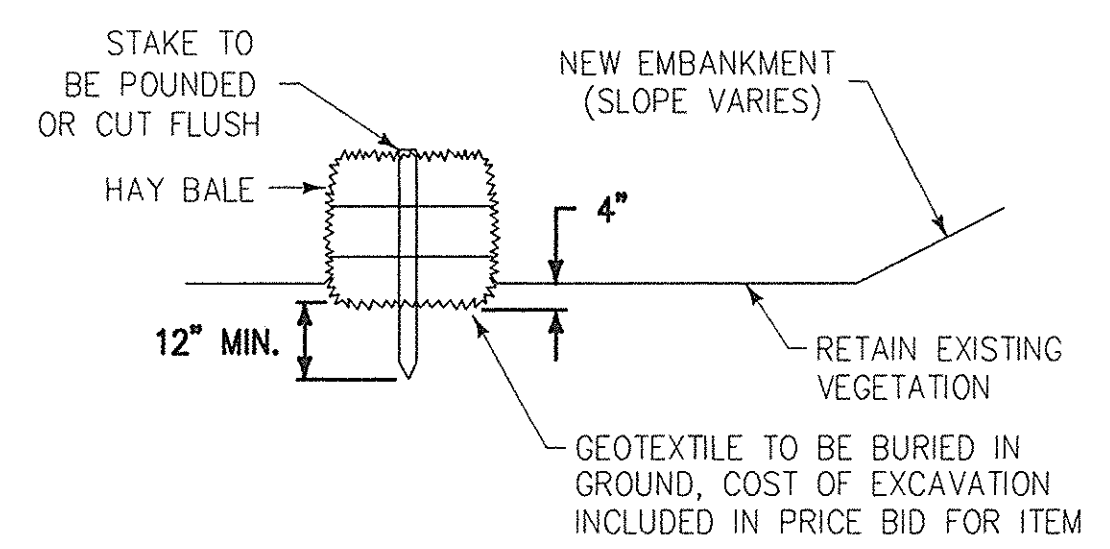
**PLAN - STAGE II CONSTRUCTION**  
1" = 40'

  
*William R. VanAlst* 7/14/98  
William R. VanAlst, P.E. Date

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
 <b>LARSEN ENGINEERS</b> 700 WEST METRO PARK ROCHESTER, NEW YORK 14623-2678 (716)272-7310 FAX (716)272-0159			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT <b>BRIDGE SCOUR PROTECTION PLANS M.P. 253.52 TO M.P. 297.20</b>			
LOCATION OF PROJECT <b>CARPENTER'S BROOK BRIDGE M.P. 297.19 &amp; M.P. 297.20 ONONDAGA COUNTY</b>			
TITLE OF DRAWING <b>CONSTRUCTION STAGING PLAN</b>			
		CONTRACT NUMBER: <b>TAS 98-22B</b>	
		DATE: <b>JULY 1998</b>	
		DRAWING NUMBER: <b>CB-3</b>	



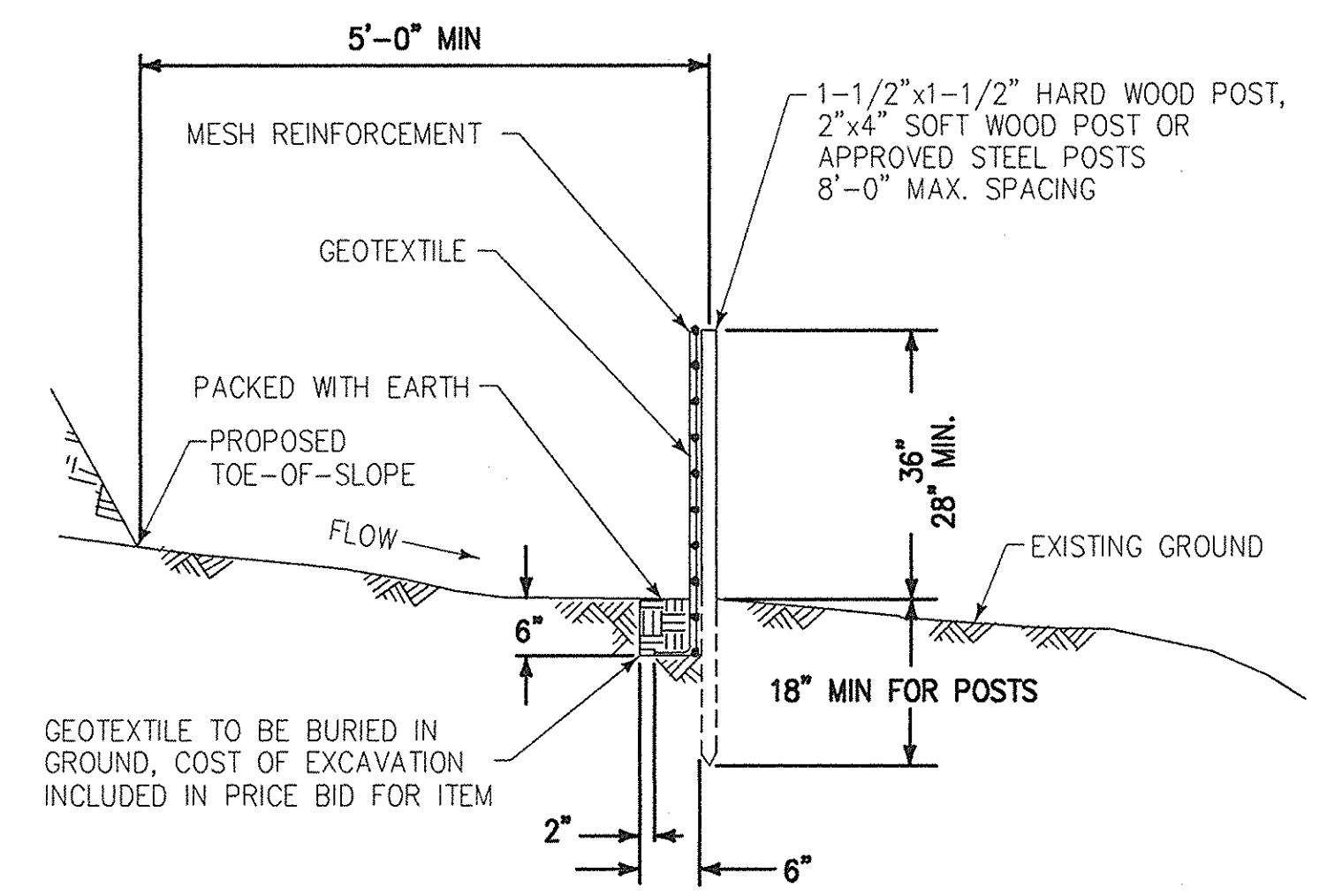
PLAN



SECTION

**HAYBALE/STRAWBALE**

ITEM 209.05



SECTION

**SILT FENCE NOTES:**

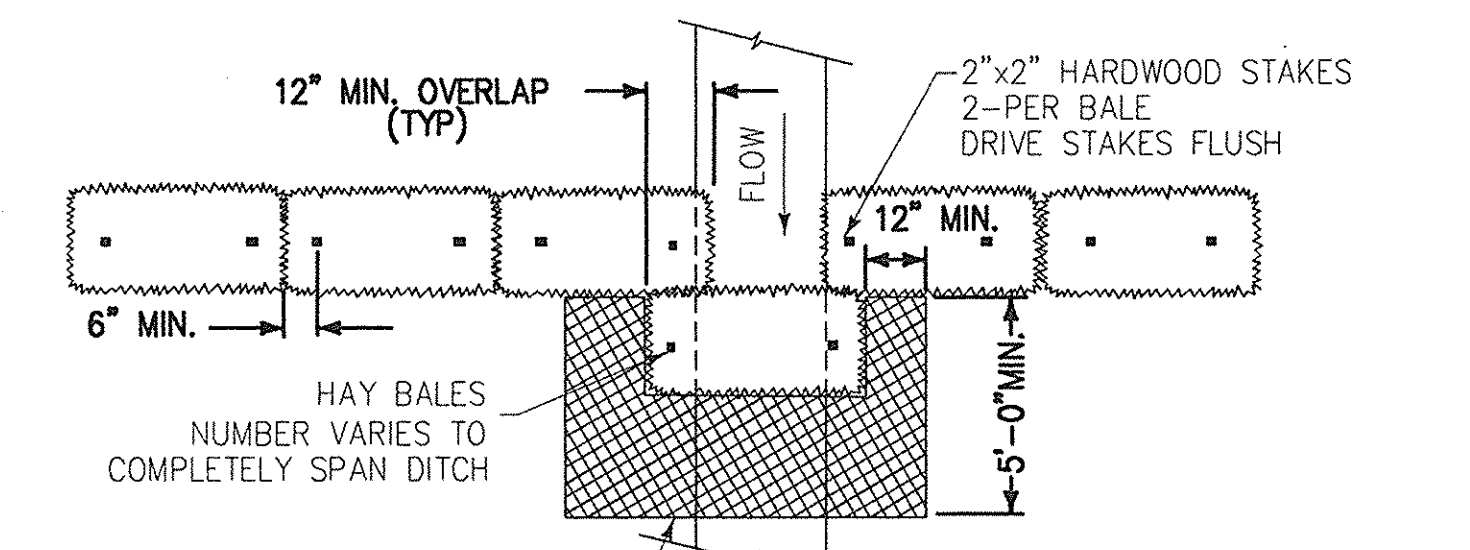
FILTER FABRIC SHALL SATISFY THE REQUIREMENTS OF SECTION 207-2 OF THE STANDARD N.Y.S.D.O.T. SPECIFICATIONS.

WHERE SILT FENCE IS USED IN AREAS OF CONCENTRATED FLOW, THE ENGINEER-IN-CHARGE MAY CALL FOR INSTALLING THE FILTER FABRIC ON THE WIRE FENCING.

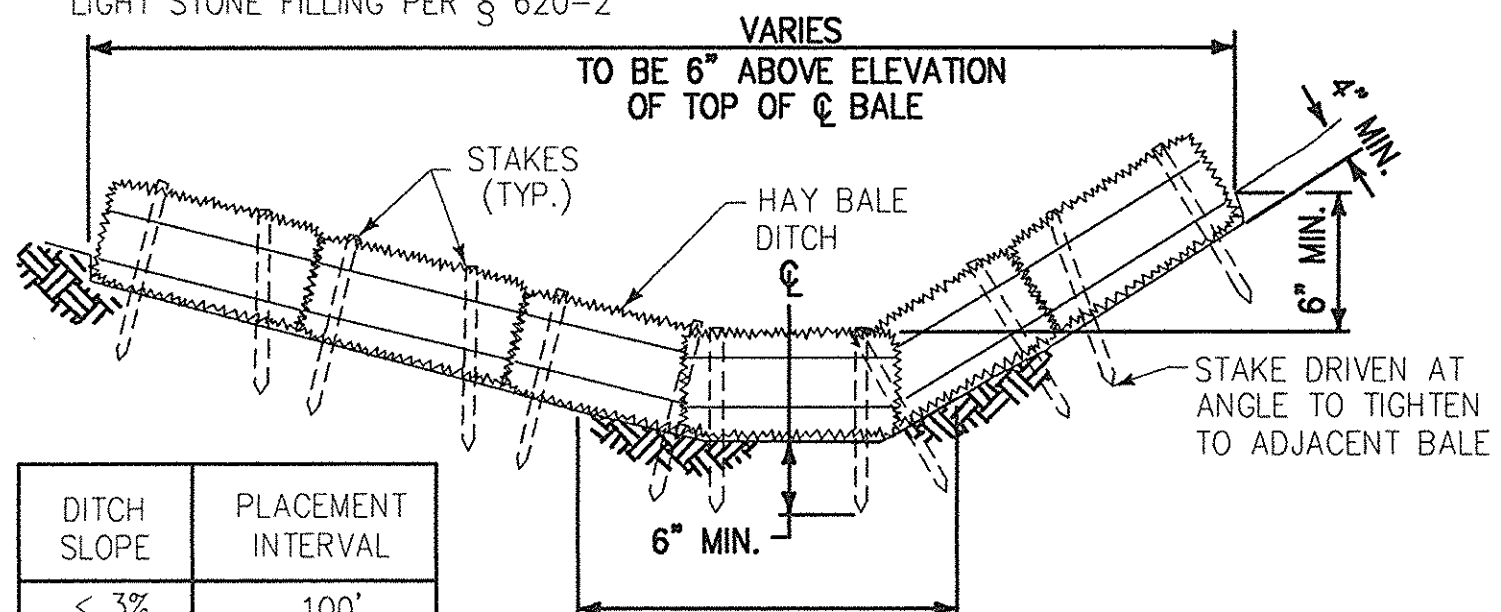
AFTER THE FABRIC HAS BEEN INSTALLED ON THE WIRE FENCING, THE ENGINEER-IN-CHARGE MAY ALSO CALL FOR BACKING THE FENCE WITH HAY BALES AS ADDITIONAL HIGH FLOW PROTECTION.

**SILT FENCE**

ITEM 209.08



PLAN



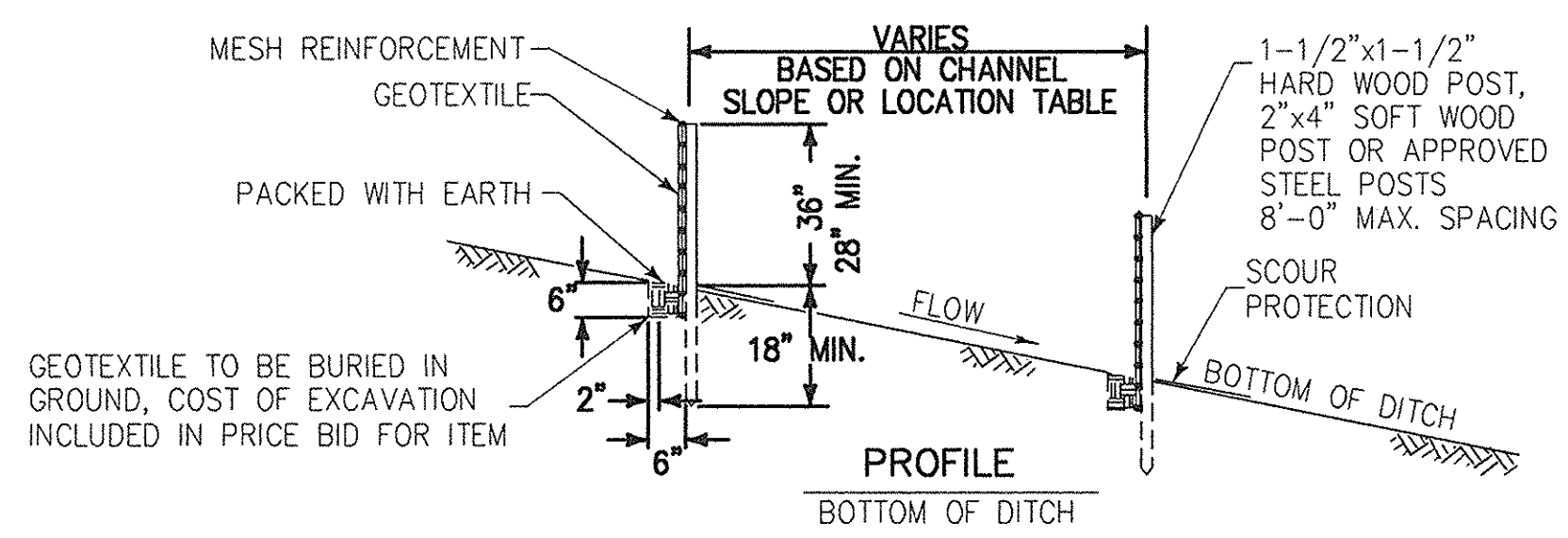
ELEVATION

DITCH SLOPE	PLACEMENT INTERVAL
< 3%	100'
3-5%	75'
> 5%	50'

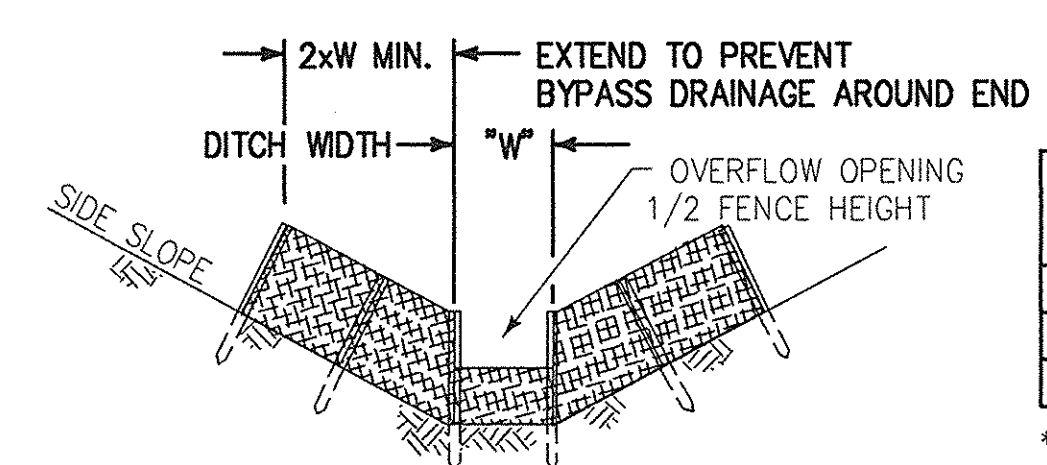
\* - PLACE AT THE END OF DITCH RESTORATION OPERATIONS OR A.O.B.E.

**CHECK DAM (HAYBALE/STRAWBALE)**

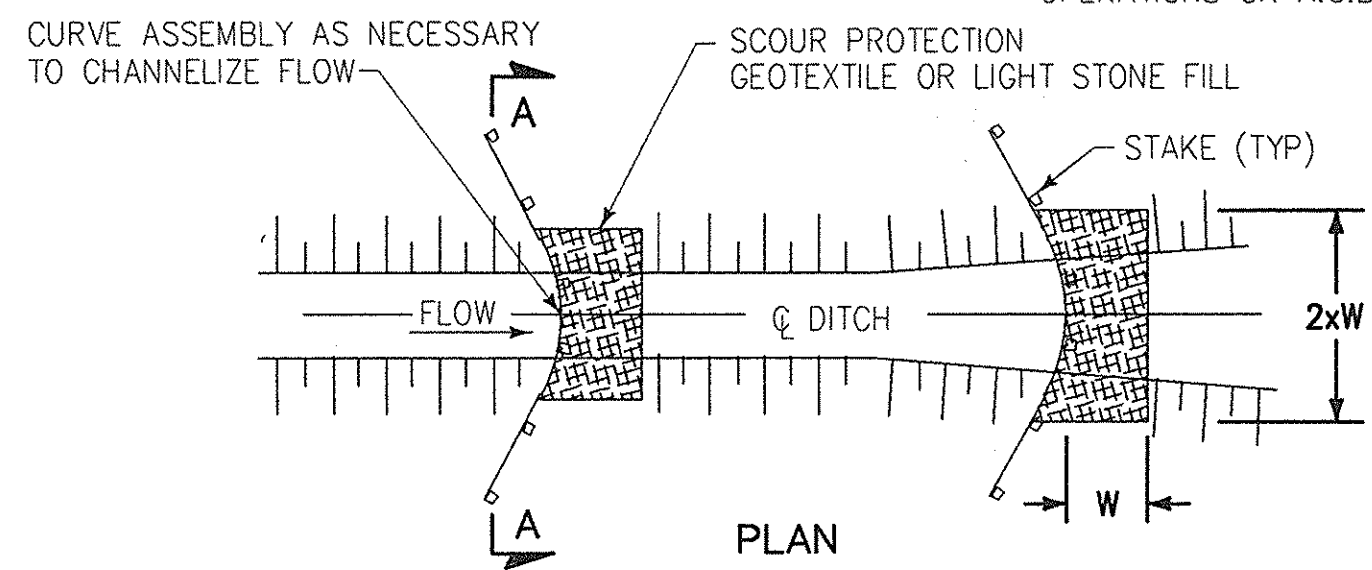
ITEM 209.0402



PROFILE



SECTION A-A



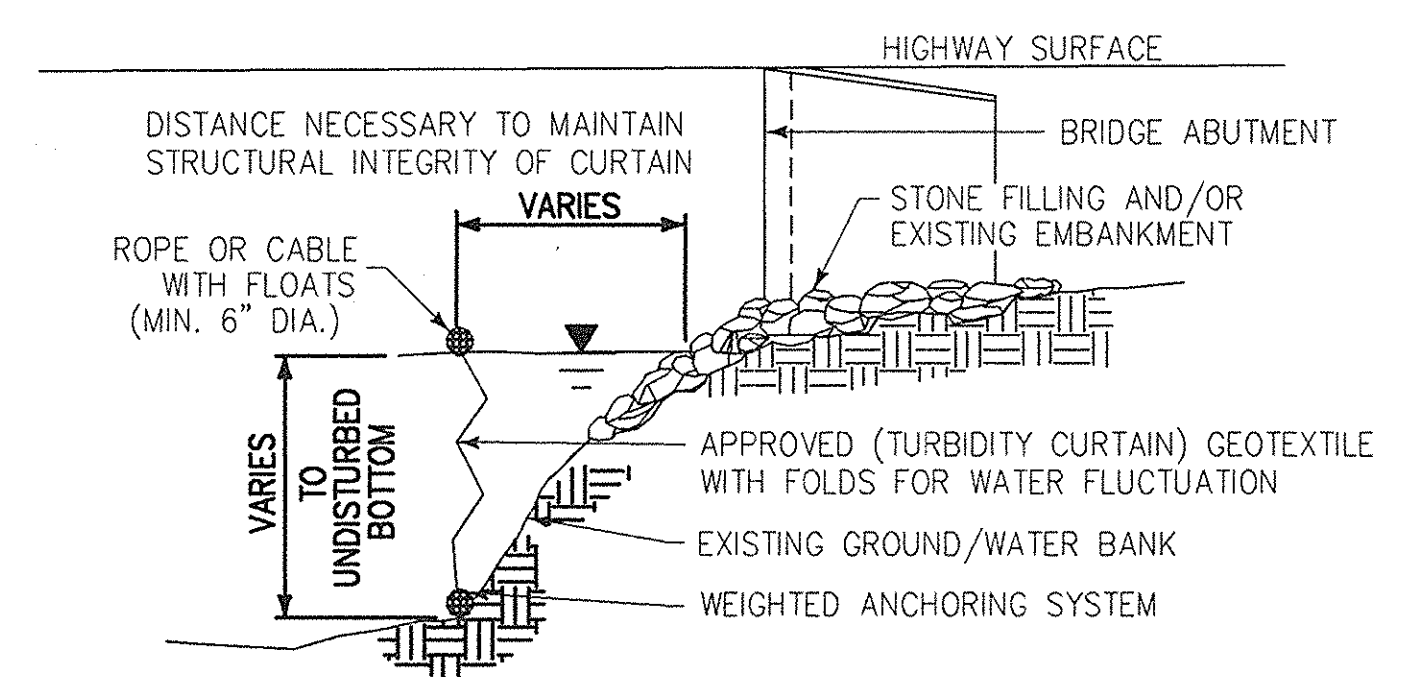
PLAN

**CHECK DAM (SILT FENCE)**

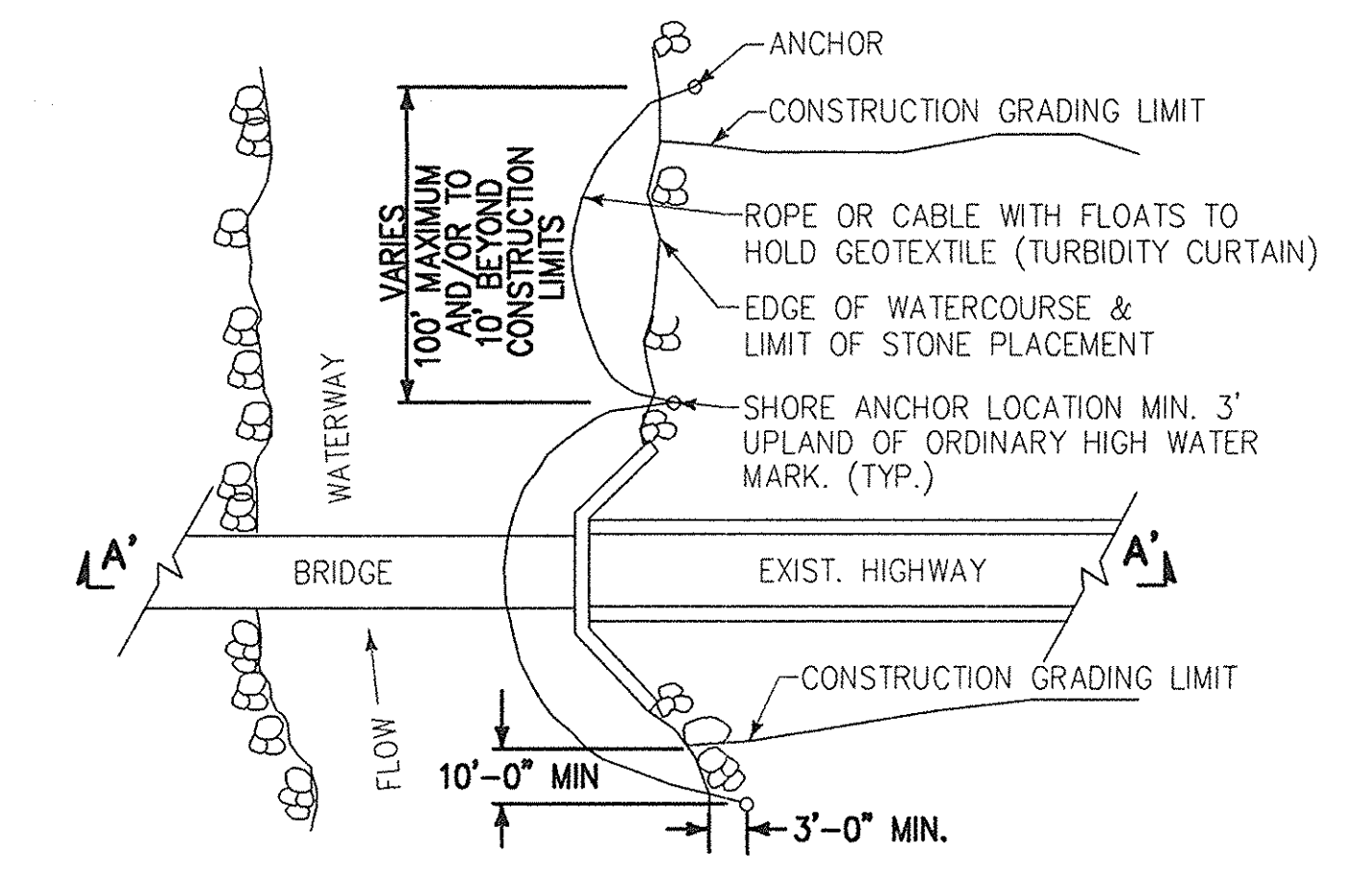
ITEM 209.0403

**GENERAL NOTES**

1. THE ELEMENTS OF THIS PAGE KNOWN AS "TEMPORARY SOIL EROSION & SEDIMENT CONTROL DETAILS" SHALL BE USED DURING CONSTRUCTION IN ANY AREA WHERE FINE MATERIALS MAY ENTER THE WATERS OF THE STATE OF NEW YORK.
2. N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION: THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION BLANKET WATER QUALITY CERTIFICATION AND/OR FRESHWATER WETLANDS PERMIT. SEE THE PROJECT PROPOSAL FOR DETAILED PERMIT CONDITIONS.
3. U.S. ARMY CORPS OF ENGINEERS: SECTION 404 OF THE CLEAN WATER ACT (33 U.S.C. 1344) PROHIBITS THE DISCHARGE OF DREDGED OR FILL MATERIALS INTO THE WATERS OF THE UNITED STATES WITHOUT A PERMIT FROM THE U.S. ARMY CORPS OF ENGINEERS. SEE THE PROJECT PROPOSAL FOR DETAILED PERMIT CONDITIONS.
4. EXACT LIMITS OF ENVIRONMENTAL TREATMENT IS SUBJECT TO THE WATER ELEVATION AT THE TIME OF CONSTRUCTION. IF DRY CONDITIONS EXIST AT THE REQUIRED PROTECTION LOCATIONS, USE SILT FENCING. IF THE WATER ELEVATION, ESTIMATED BY THE ENGINEER-IN-CHARGE, WILL REACH, OR IS AT, THE REQUIRED PROTECTION LOCATIONS, USE A TURBIDITY CURTAIN. ADDITIONAL EROSION CONTROL METHODS, OTHER THAN SHOWN ON THIS SHEET, MAY BE REQUIRED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL THE EROSION AND POLLUTION CONTROL NECESSARY FOR THE COMPLETION OF WORK TO BE DONE.
5. ALL STREAM CHANNEL WORK SHALL BE LIMITED TO WITHIN THE DESIGNATED RIGHT OF WAY, EASEMENT, T.O. LIMITS OR RELEASE.
6. ALL CONTROLS SHALL BE PLACED PRIOR TO STARTING EARTHWORK OPERATIONS AND SHALL REMAIN IN PLACE UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION.
7. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT MIGRATION INTO WATER BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, CONCRETE LEACHATE OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION PROCEDURES.
8. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER AREAS TO AN APPROPRIATE UPLAND AREA FOR DISPOSAL.
9. PERIODIC CLEANING AND INSPECTION OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL DEVICES WILL BE NECESSARY. MAINTENANCE OF THESE DEVICES IS REQUIRED AFTER ANY STORM EVENT.
10. IN THE EVENT DEWATERING OPERATIONS BECOME NECESSARY, A SETTLING BASIN WILL BE REQUIRED UNLESS THE PUMP DISCHARGE IS AS CLEAR AND FREE OF SEDIMENT AS THE FLOWING STREAM. COST TO BE INCLUDED UNDER THE VARIOUS ITEMS OF THIS CONTRACT.
11. HEAVY EQUIPMENT SHALL NOT BE DRIVEN IN THE WATER.
12. NO DISCHARGE OF TEMPORARY FILL MATERIAL INTO THE WATERWAY IS PERMITTED. SHOULD THE CONTRACTOR WISH TO CONSTRUCT A TEMPORARY ACCESS OR CAUSEWAY IN THE WATER TO FACILITATE REMOVALS OR NEW CONSTRUCTION, ADDITIONAL PERMITS FROM THE U.S. ARMY CORPS OF ENGINEERS AND N.Y.S. DEPT. OF ENVIRONMENTAL CONSERVATION MAY BE REQUIRED. ALL EFFORTS SHALL BE COORDINATED THRU THE REGIONAL ENVIRONMENTAL CONTACT. DELAYS OR EXTRA COSTS ASSOCIATED WITH SECURING APPROVALS OR ADDITIONAL PERMITS FOR THE PLACEMENT OF THE TEMPORARY FILLS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO OBTAIN NECESSARY PERMITS.
13. ANY ACCESS WAYS OR DETOURS SHALL BE COMPLETELY ISOLATED WITH EROSION CONTROL TREATMENTS. IF THE ACCESS WAY IS TO REMAIN IN PLACE LONGER THAN 5 DAYS THE EXPOSED SOILS ARE TO BE TEMPORARILY SEEDED AND MULCHED AS DESCRIBED UNDER SECTION 209, TEMPORARY SOIL EROSION AND SEDIMENT CONTROL.
14. SANDBAGS APPROVED FOR USE SHALL BE OF A REINFORCED GEOTEXTILE TYPE WITH TIES. NO BURLAP BAGS SHALL BE USED. SAND OR GRAVEL MAY BE USED AS THE FILL MATERIAL WITH THIS TYPE OF BAG IF MATERIAL IS DOUBLE BAGGED AND INDIVIDUALLY TIED TO PREVENT LEAKAGE. GRAVEL MATERIAL USED TO FILL THE BAGS SHALL MEET THE SIZE DESIGNATION #1 OF TABLE 703-4 OF THE STANDARD NYSOT SPECIFICATION.



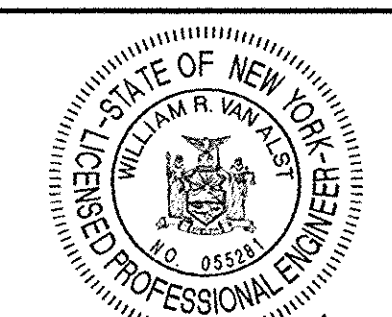
SECTION A'-A'



PLAN

**TURBIDITY CURTAIN**

ITEM 209.07



William R. VanAlst, P.E. 7/14/98  
Date

DATE	DESCRIPTION	BY	SYM.

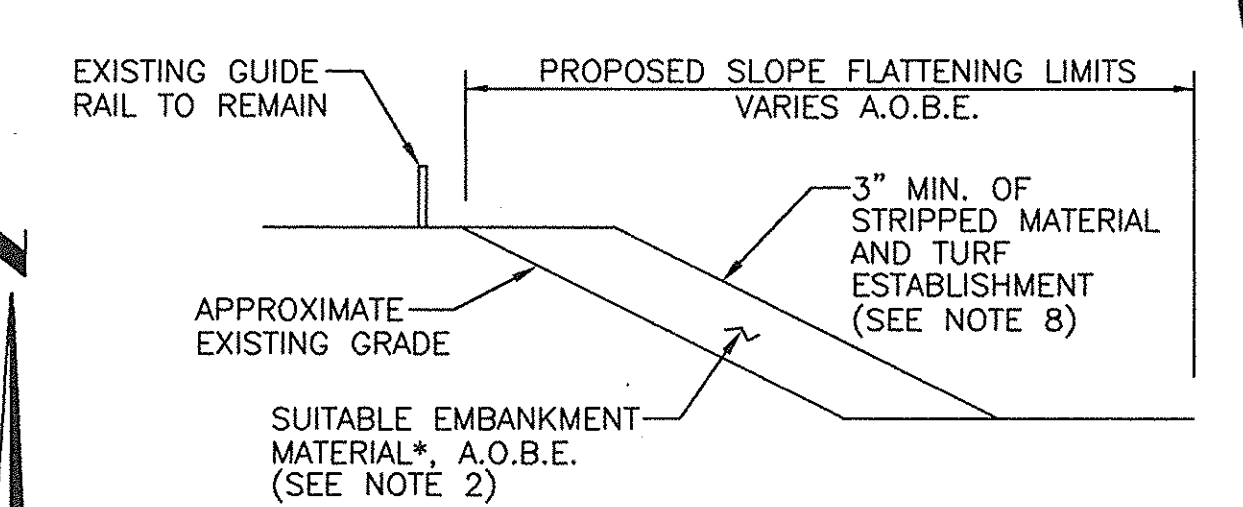
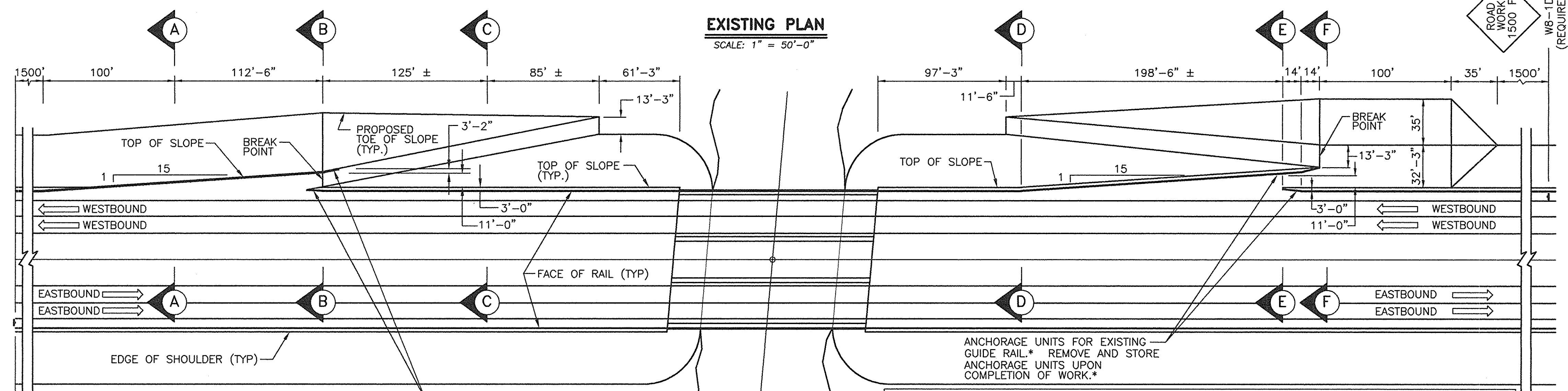
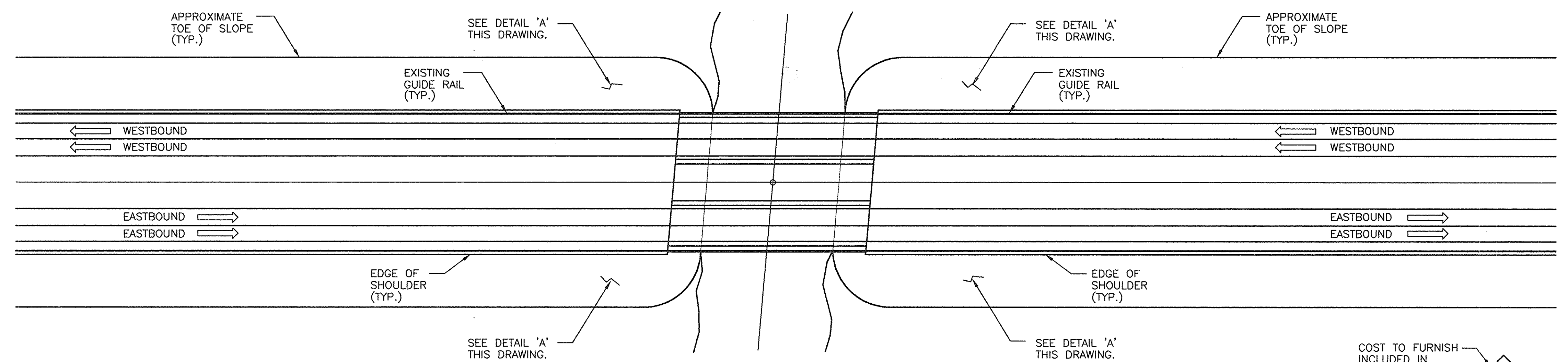
**LARSEN ENGINEERS**  
700 WEST METRO PARK  
ROCHESTER, NEW YORK 14623-2678  
(716)272-7310 FAX (716)272-0159

NEW YORK STATE THRUWAY AUTHORITY  
DEPARTMENT OF MAINTENANCE AND ENGINEERING  
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT  
**BRIDGE SCOUR PROTECTION PLANS**  
LOCATION OF PROJECT  
**M.P. 253.52 TO M.P. 297.20**  
**COUNTIES OF**  
**ONEIDA, MADISON, AND ONONDAGA**  
TITLE OF DRAWING  
**TEMPORARY SOIL EROSION & SEDIMENT CONTROL DETAILS**

CONTRACT NUMBER:  
**TAS 98-22B**  
DATE:  
**JULY 1998**  
DRAWING NUMBER:  
**TE-1**



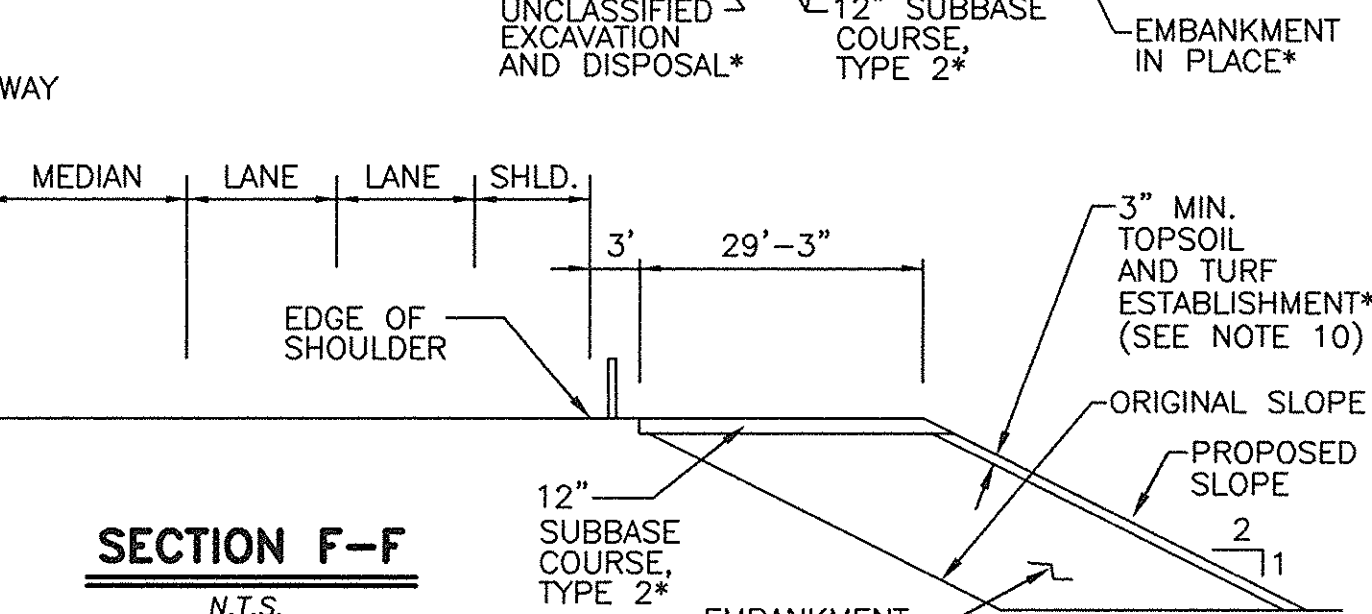
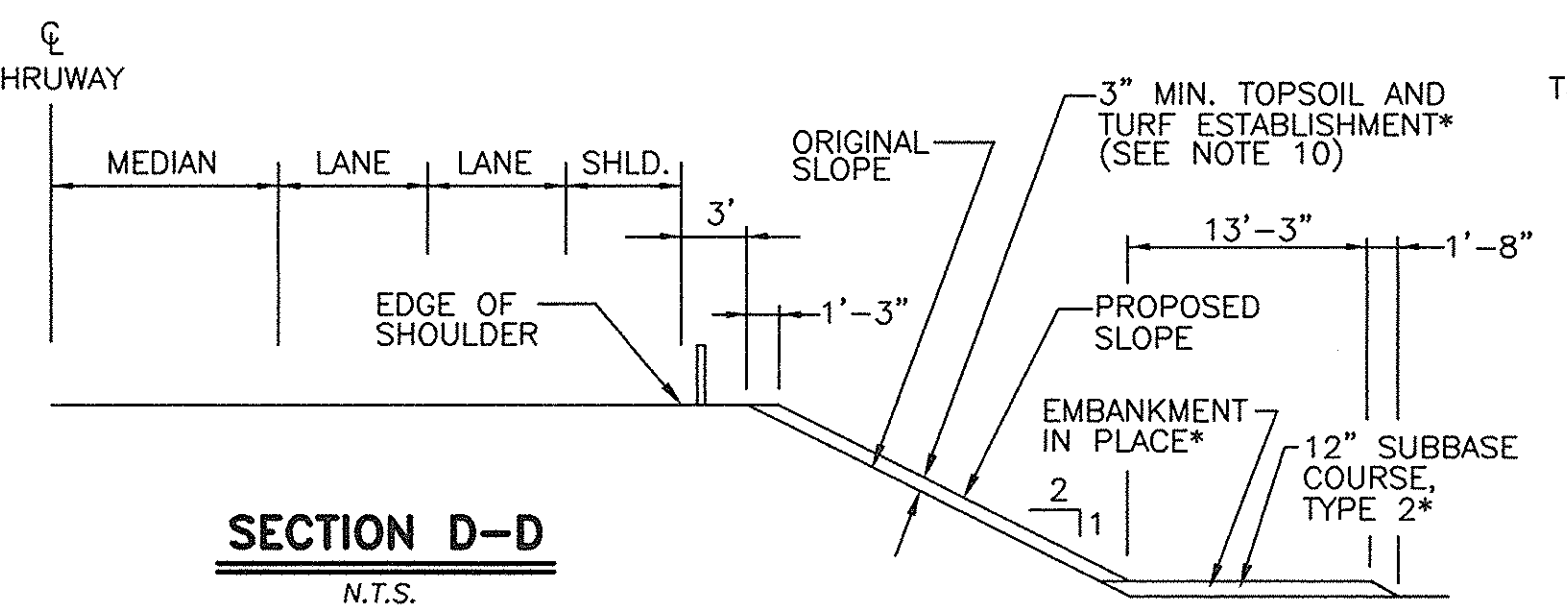
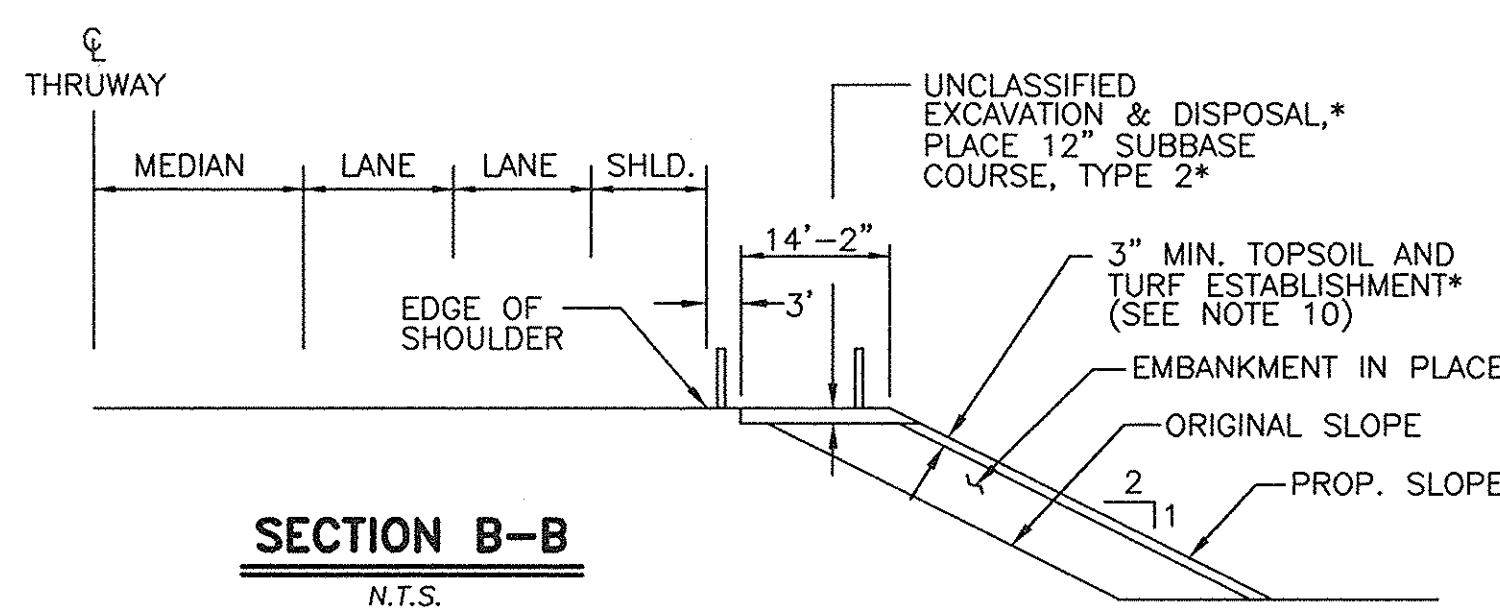
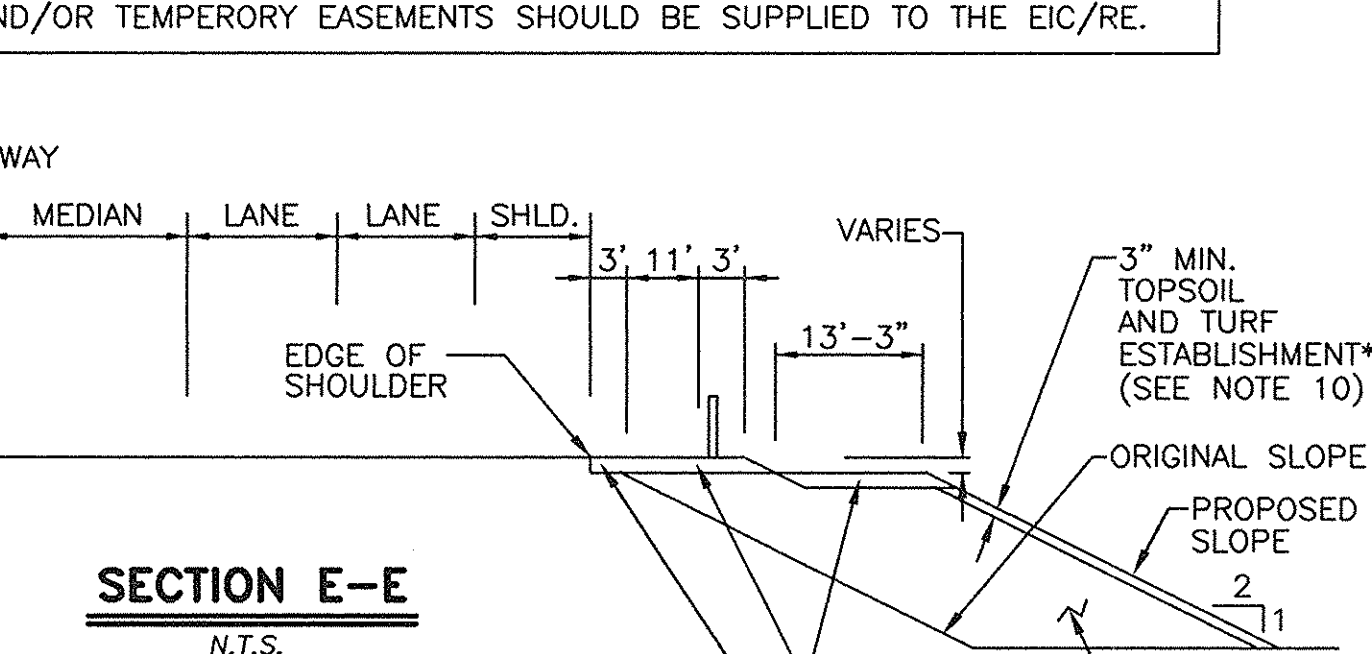
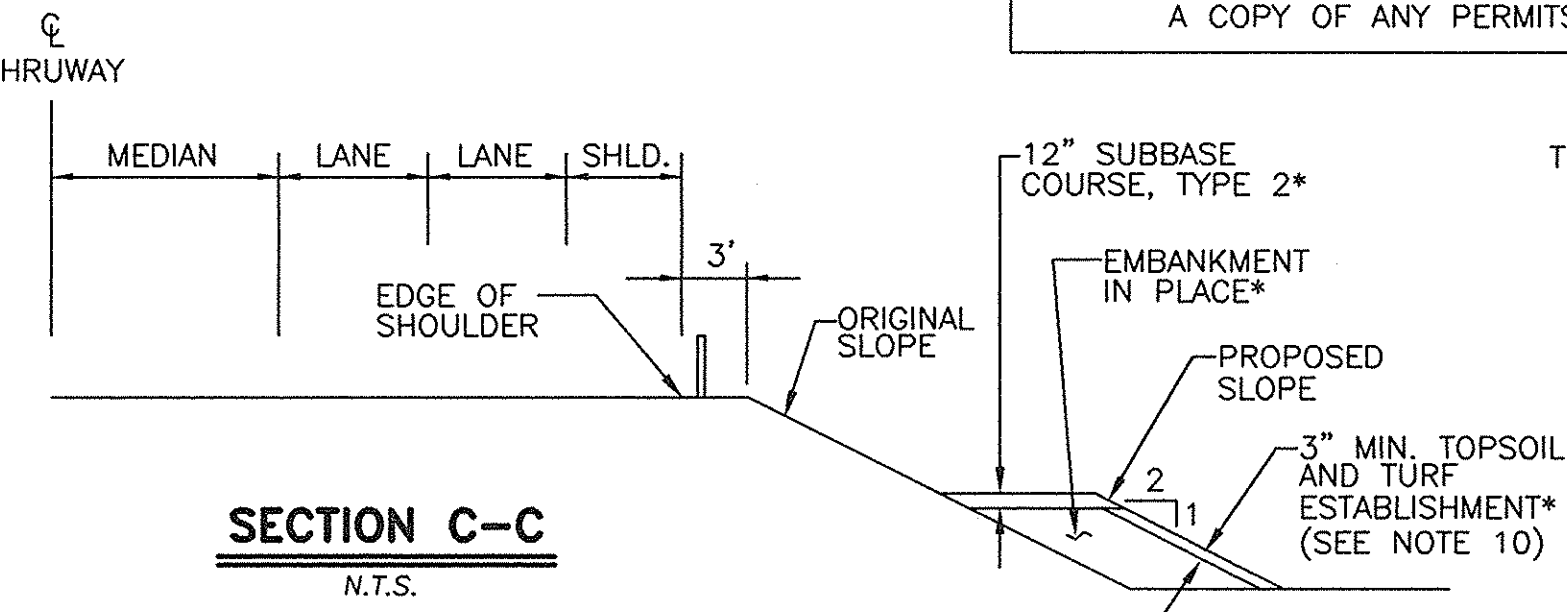
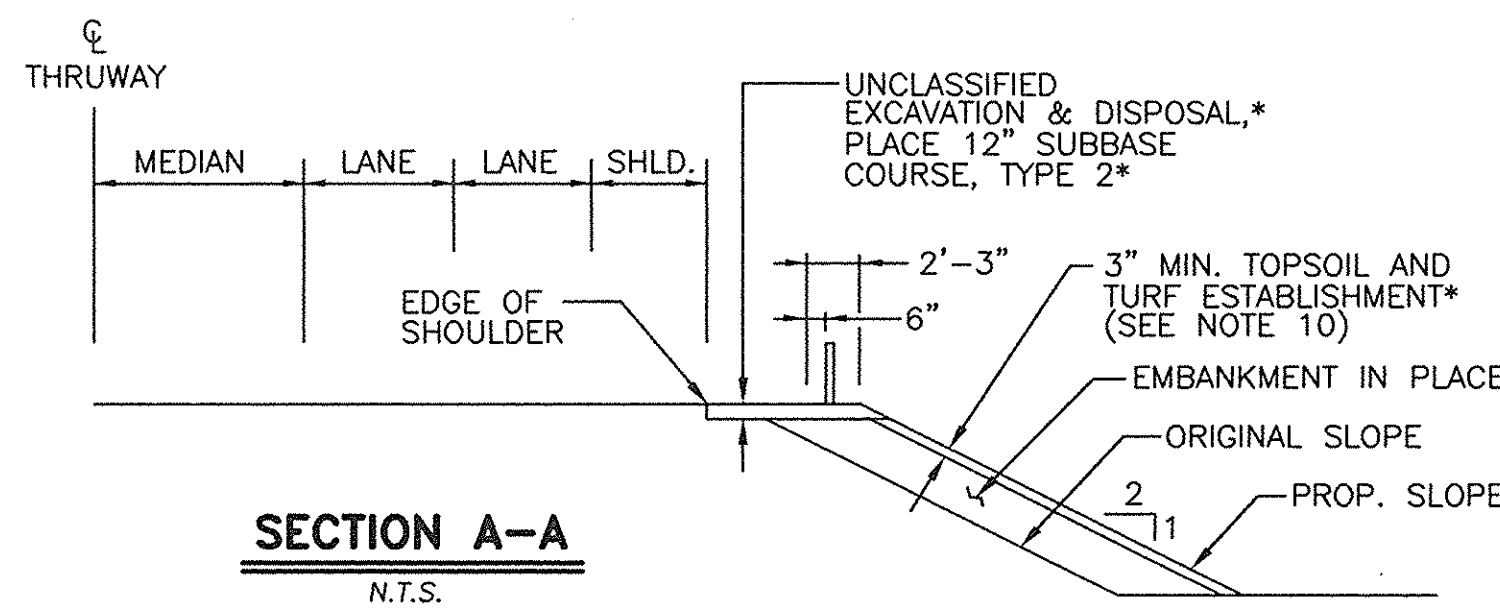


- NOTES:**
1. ALL SUITABLE MATERIAL CAN BE USED AS EMBANKMENT, A.O.B.E.
  2. THE EMBANKMENT MATERIAL SHALL BE PLACED SO THAT IT WILL NOT BLOCK DRAINAGE FROM DAYLIGHTED SUBBASE MATERIAL.
  3. PREPARATION OF THE EXISTING SLOPE TO RECEIVE SLOPE FLATTENING, (BENCHING, STRIPPING, AND STOCKPILING, ETC.), SHALL BE AT NO ADDITIONAL COST. THIS COST IS TO BE INCLUDED IN THE PRICE BID FOR ITEM 25619.9475XX.
  4. DRAINAGE IS TO BE MAINTAINED ALONG THE TOE OF SLOPE, A.O.B.E. COST IS TO BE INCLUDED IN THE PRICE BID FOR ITEM 25619.9475XX.
  5. REFERENCE N.Y.S.D.O.T. STANDARD SHEET 203-1 AND/OR 203-2R1.
  6. THE CONTRACTOR SHALL CONSTRUCT ALL SLOPE FLATTENING AREAS AS DEFINED IN THE CONTRACT PLANS AND PROPOSAL AND A.O.B.E. BEFORE BEING ALLOWED TO USE ANY SUITABLE EXCAVATED MATERIAL FROM THE PROJECT SITE.
  7. ALL SLOPE FLATTENING AREAS STARTED SHALL BE COMPLETED TO FINAL TYPICAL SECTIONS AS SHOWN IN THE CONTRACT PLANS AND RESTORED PRIOR TO CONTRACT ACCEPTANCE.
  8. TURF ESTABLISHMENT SHALL MEET THE REQUIREMENTS OF SECTION 613 OF THE STANDARD SPECIFICATIONS. THE COST OF COVERING (WITH STRIPPED MATERIAL) AND ESTABLISHING TURF IS TO BE INCLUDED IN THE PRICE BID FOR ITEM 25619.9475XX.
  9. THE NUMBER OF ACCESS RAMPS AT EACH BRIDGE IS TO BE BASED UPON ACCESSIBILITY. THE PLANS WILL BE TYPICAL FOR THE OPPOSITE SIDE.
  10. TURF ESTABLISHMENT SHALL MEET THE REQUIREMENTS OF SECTION 613 OF THE STANDARD SPECIFICATIONS. TOPSOIL TO MEET THE REQUIREMENTS OF SECTION 610 OF THE STANDARD SPECIFICATIONS. THE COST OF SOIL AND TURF ESTABLISHMENT TO BE INCLUDED IN ITEM 25619.9475XX.
  11. TEMPORARY LANE CLOSURES SHALL BE REQUIRED DURING RESETTLE OF GUIDE RAIL. THE CONTRACTOR SHALL SUBMIT PLANS FOR APPROVAL PRIOR TO LANE CLOSURES. COST TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEMS 619.01 AND 25619.9475XX.
  12. CONTRACTOR TO RESET GUIDE RAIL AFTER COMPLETION OF CONSTRUCTION AT ACCESS POINTS. COST TO BE INCLUDED IN ITEM 25619.9475XX.
  13. IN-ACCESS LOCATION SHALL BE SELECTED WITH THE APPROVAL OF THE E.I.C.
  14. COST TO FURNISH, INSTALL, AND REMOVE TEMPORARY CONCRETE BARRIERS SHALL BE INCLUDED IN ITEM 25619.9475XX. CONTRACTOR SHALL SUBMIT PLANS FOR APPROVAL PRIOR TO INSTALLATION OF ANY TEMPORARY BARRIERS. COST TO FURNISH AND INSTALL CONCRETE BARRIER MARKERS A.O.B.E. SHALL BE INCLUDED IN PRICE BID FOR ITEM 25619.9475XX.

COST TO FURNISH INCLUDED IN ITEM 15619.0201

\* COST FOR LABOR AND MATERIALS REQUIRED FOR THESE ITEMS TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 25619.9475XX.

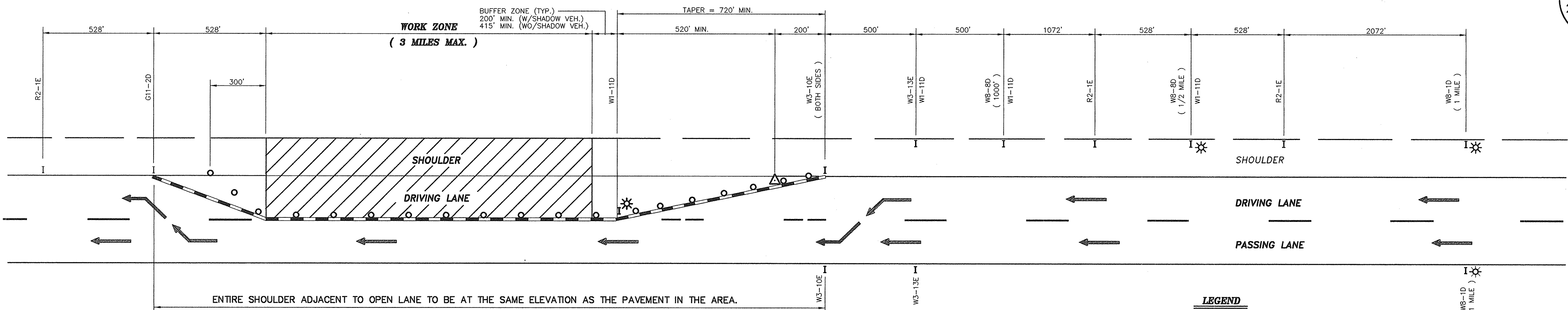
**NOTE:** THE CONTRACTOR SHALL USE THIS SHEET AS A GUIDE FOR THE CONSTRUCTION OF THE REQUIRED ACCESS RAMPS. ALL DIMENSIONS AND DETAILS SHALL BE VERIFIED IN THE FIELD. THE COST TO FURNISH ALL MATERIALS AND WORK NECESSARY TO INSTALL AND REMOVE THE ACCESS RAMPS AS SPECIFIED SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 25619.9475. THE COST TO OBTAIN ANY NECESSARY PERMITS OR TEMPORARY EASEMENT FOR ANY WORK OUTSIDE OF THE NYS THRUWAY AUTHORITY RIGHT-OF-WAY LIMITS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 25619.9475. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL DETAILS SHOWING THE LOCATION AND CONSTRUCTION OF ANY ACCESS RAMPS. AFTER THE CONTRACTOR HAS COMPLETED HIS WORK, THE ACCESS RAMPS SHALL BE REMOVED AND ALL AREAS WITHIN THE CONTRACT LIMITS RETURNED TO THEIR ORIGINAL CONDITION. THE COST TO REMOVE THE ACCESS RAMPS AND RETURN THE AREA TO ITS ORIGINAL CONDITION SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 25619.9475XX. A COPY OF ANY PERMITS AND/OR TEMPORARY EASEMENTS SHOULD BE SUPPLIED TO THE EIC/RE.



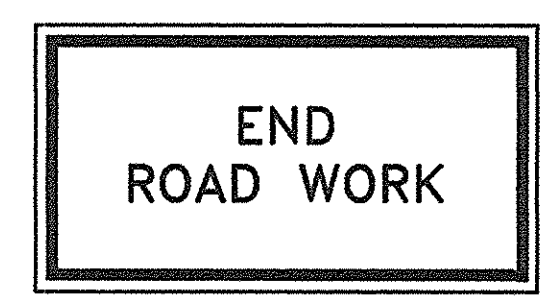
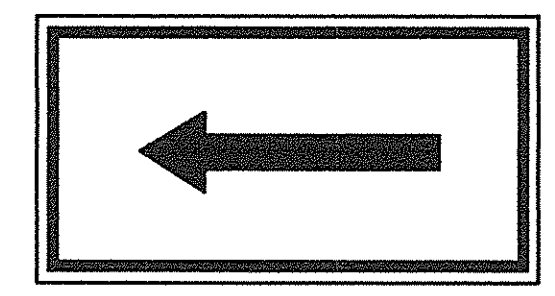
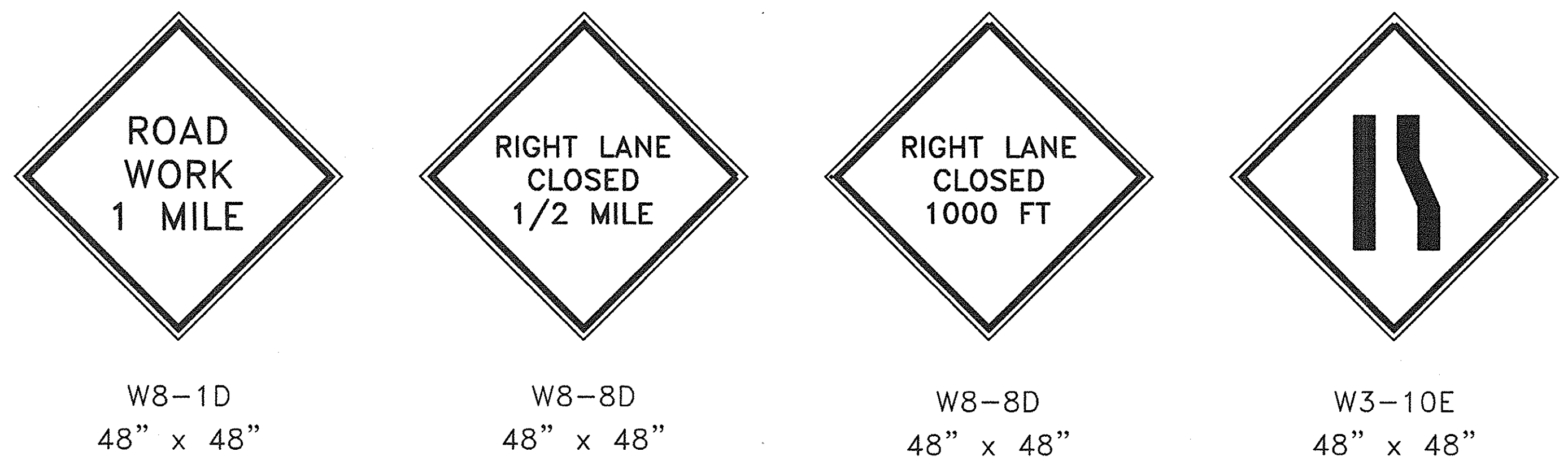
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
<b>LARSEN ENGINEERS</b> 700 WEST METRO PARK ROCHESTER, NEW YORK 14623-2678 (716)272-7310 FAX (716)272-0159			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT <b>BRIDGE SCOUR PROTECTION PLANS</b>			
LOCATION OF PROJECT <b>M.P. 253.52 TO M.P. 297.20</b> <b>COUNTIES OF</b> <b>ONEIDA, MADISON, AND ONONDAGA</b>			
TITLE OF DRAWING <b>TEMPORARY ACCESS RAMP DETAILS</b>			
CONTRACT NUMBER: <b>TAS 98-22B</b>		DATE: <b>JULY 1998</b>	
DRAWING NUMBER: <b>AC-1</b>		DATE: <b>7/14/98</b>	

STATE OF NEW YORK  
PROFESSIONAL ENGINEER  
WILLIAM R. VANALST  
7/14/98  
William R. VanAlst, P.E. Date

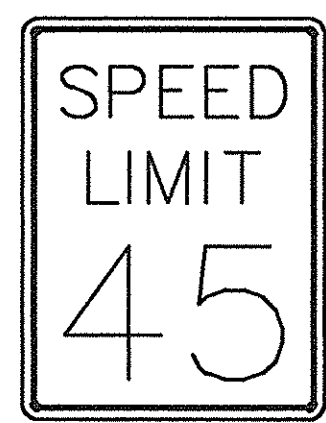
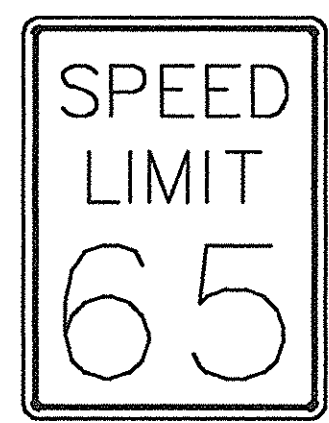
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DRAFTED BY: J.W.T.  
DESIGNED BY: R.D.P.  
IN CHARGE OF: W.R.V.



PLAN



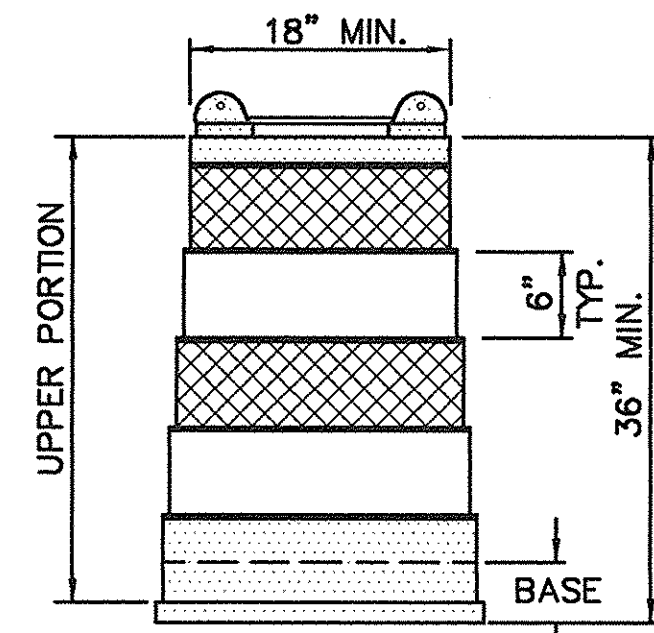
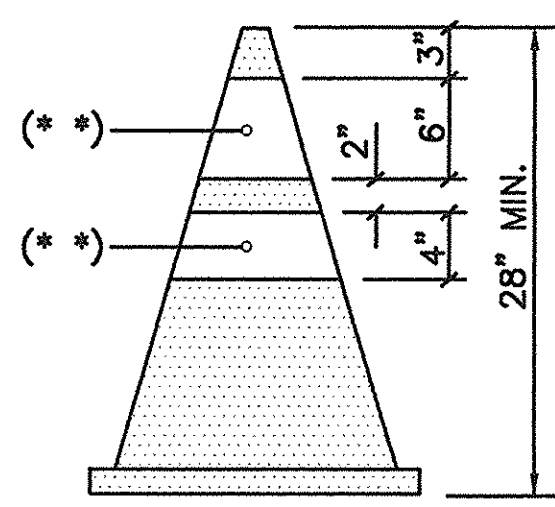
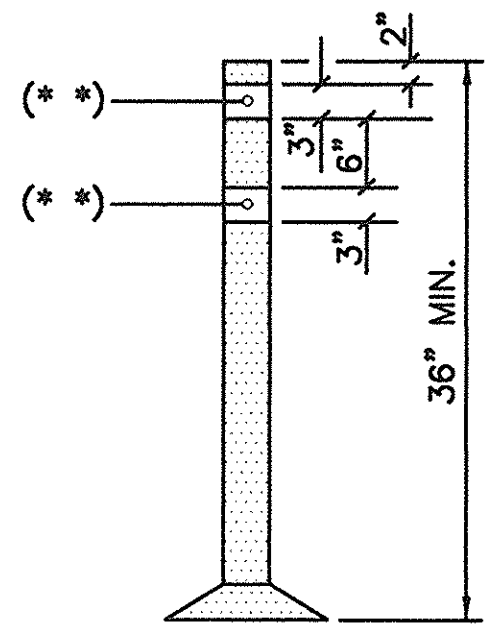
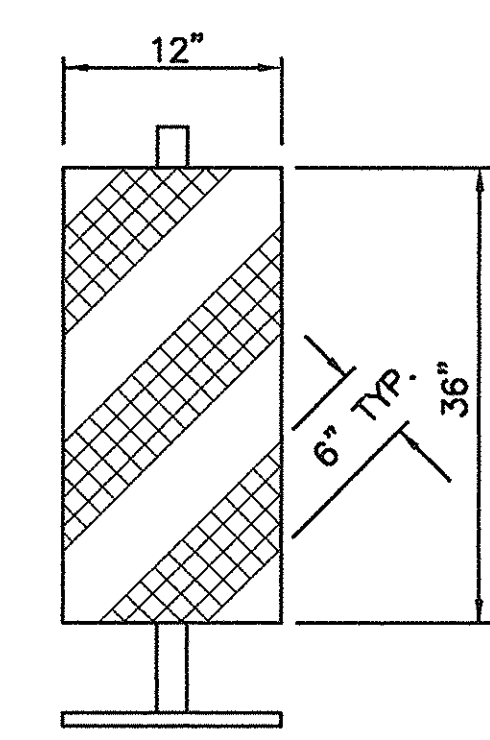
- LEGEND**
- EXISTING PAVEMENT MARKINGS (BROKEN OR SOLID)
  - REMOVAL OF EXISTING PAVEMENT MARKINGS. (SEE NOTE 8)
  - TEMPORARY PAVEMENT MARKING FOR CONSTRUCTION (SEE NOTE 8)
  - TRAFFIC CONES AT 40' INTERVALS ON TAPER, 80' ON TANGENT.
  - SIGNS
  - FLASHING ARROWBOARD
  - FLASHING LIGHTS (LOW INTENSITY FOR NIGHT USE OR A.O.B.E.)



R2-1E  
24" x 30"

R2-1E  
24" x 30"

- LEGEND**
- WHITE REFLECTORIZED SHEETING, CLASS B (3M, 3800 SERIES OR EQUAL)
  - ORANGE REFLECTORIZED SHEETING, CLASS B (3M, 3800 SERIES OR EQUAL)
  - NON-REFLECTORIZED ORANGE
  - APPROVED REFLECTORIZED WHITE BAND OR COLLAR (CLASS B OR C) -REQUIRED FOR NIGHT USE.



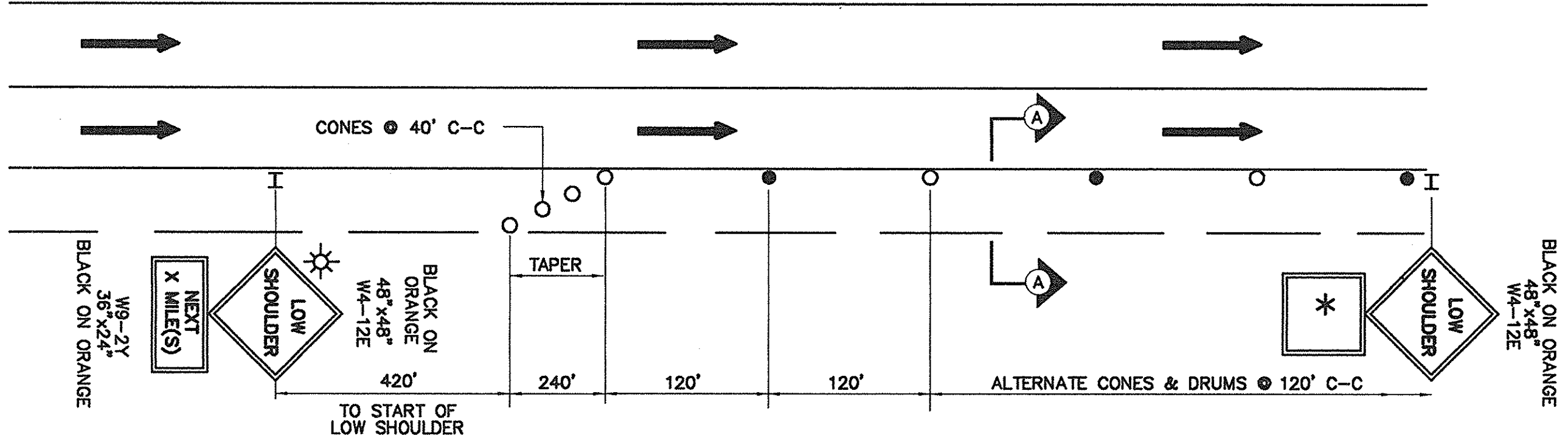
- NOTES:**
- ALL SIGNS MAY BE FOUND IN THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL "W" SERIES SIGNS SHALL BE BLACK ON FLUORESCENT ORANGE. ALL REFLECTORIZED SIGN BACKGROUNDS SHALL BE CLASS "B" REFLECTIVE SHEETING.
  - SIGN SUPPORTS SHALL RESIST OVERTURNING IN WINDS AND PROVIDE A MINIMUM MOUNTING HEIGHT OF 5 FEET TO THE SIGN BOTTOM. SIGNS SHALL BE PLACED AT OR AS NEAR AS PRACTICABLE TO THE LOCATIONS SHOWN. LATERAL PLACEMENT OF SIGNS SHALL CONFORM TO SECTIONS 201.5 AND/OR 301.2 OF THE MUTCD.
  - FLAGGERS ARE TO BE PROVIDED AND LOCATED IN THE PATTERN AS DIRECTED BY THE ENGINEER. WHEN USED, A W8-22E SIGN WILL BE PLACED NOT CLOSER THAN 500 FEET NOR FURTHER THAN 2600 FEET AHEAD OF THE FLAGGER.
  - ALL FLASHING LIGHTS SHOWN ON THIS SHEET SHALL BE PLACED IN OPERATION FROM 1/2 HOUR AFTER SUNSET TO 1/2 HOUR BEFORE SUNRISE OR AS ORDERED BY THE ENGINEER.
  - FLASHING ARROWBOARDS SHALL CONFORM TO SECTION 294.45 OF THE MUTCD. THE MINIMUM SIZE SHALL BE TYPE C (96" X 48") FULL ARROW FLASH. NO CHEVRONS NOR SEQUENTIAL ARROW FLASH WILL BE ALLOWED.
  - THESE PLANS SHALL BE MODIFIED TO LEFT LANE CLOSURE(S) BY CHANGING SIGNS W1-11D TO W1-12D, W8-8D TO W8-7D, W8-11D TO W8-10D, W3-10E TO W3-9E AND W3-13E TO W3-12E. THE LEFT LANE CLOSURE SHALL BE THE MIRROR IMAGE OF THE RIGHT LANE CLOSURE.
  - THE TRAFFIC SUPERVISOR WILL APPROVE THE CONDITION OF ALL TRAFFIC CONTROL DEVICES PRIOR TO USE, AND WILL REVIEW THE PROPOSED TRAFFIC CONTROL PATTERN (FOR PRECISE DEVICE POSITIONING) PRIOR TO INSTALLATION.
  - EXISTING PAVEMENT MARKINGS SHALL BE MAINTAINED BY THE CONTRACTOR WITHIN THE PROJECT LIMITS. IF THE CONTRACTOR'S OPERATIONS IN ANY WORK ZONE WILL EXCEED A PERIOD OF 2 WEEKS, OR IF DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL COMPLETELY REMOVE PORTIONS OF THE EXISTING MARKINGS AND INSTALL TEMPORARY MARKINGS AS DETAILED ON THIS SHEET. TEMPORARY MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD, CONTRACT PLANS AND/OR PROPOSAL. WHEN ALL WORK IS COMPLETED IN THE WORK ZONE, OR AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE THE TEMPORARY MARKINGS AND RESTORE THE EXISTING MARKINGS.
  - IF THE CONTRACTOR'S OPERATION IN ANY WORK ZONE WILL EXCEED FOUR DAYS, OR EXTEND INTO A WEEKEND, OR IF ORDERED BY THE ENGINEER, DRUMS SHALL BE SUBSTITUTED FOR CONES IN THE ASSOCIATED TRAFFIC PATTERN. THE DRUMS SHALL BE SPACED AT 70 FOOT INTERVALS ON TAPERS AND 120 FOOT INTERVALS ON TANGENT SECTIONS. OR A.O.B.E. (NOTE - DRUMS MAY BE SUBSTITUTED FOR CONES AT ANY TIME PROVIDED THE ABOVE MAXIMUM SPACING IS MAINTAINED) VERTICAL PANELS AND/OR TUBULAR MARKERS MAY BE SUBSTITUTED FOR CONES WITH THE APPROVAL OF THE ENGINEER.

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
<b>LARSEN ENGINEERS</b> 700 WEST METRO PARK ROCHESTER, NEW YORK 14623-2678 (716)272-7310 FAX (716)272-0159			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT <b>BRIDGE SCOUR PROTECTION PLANS</b>			
LOCATION OF PROJECT <b>M.P. 253.52 TO M.P. 297.20 COUNTIES OF ONEIDA, MADISON, AND ONONDAGA</b>			
TITLE OF DRAWING <b>TWO LANE THRUWAY TRAFFIC CONTROL PLAN</b>			
		CONTRACT NUMBER: <b>TAS 98-22B</b>	
		DATE: <b>JULY 1998</b>	
		DRAWING NUMBER: <b>TR-1</b>	

William R. VanAlst, P.E.  
7/14/98  
Date

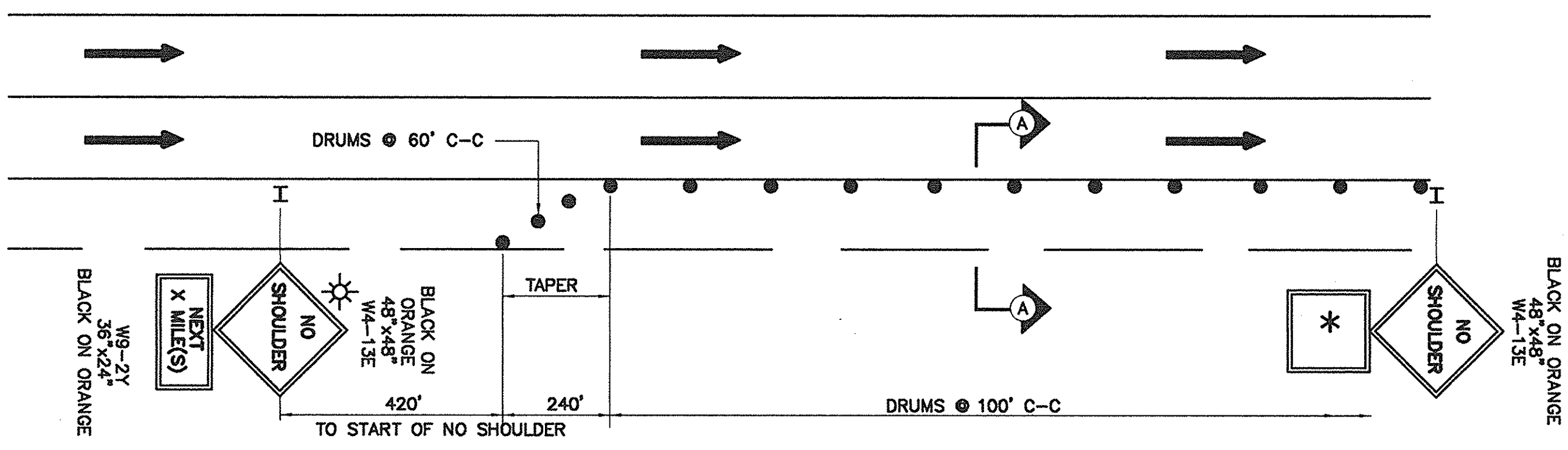


CHECKED BY: J.D.B.  
DRAFTED BY: J.W.T.  
DESIGNED BY: R.D.P.  
IN CHARGE OF: W.R.V.



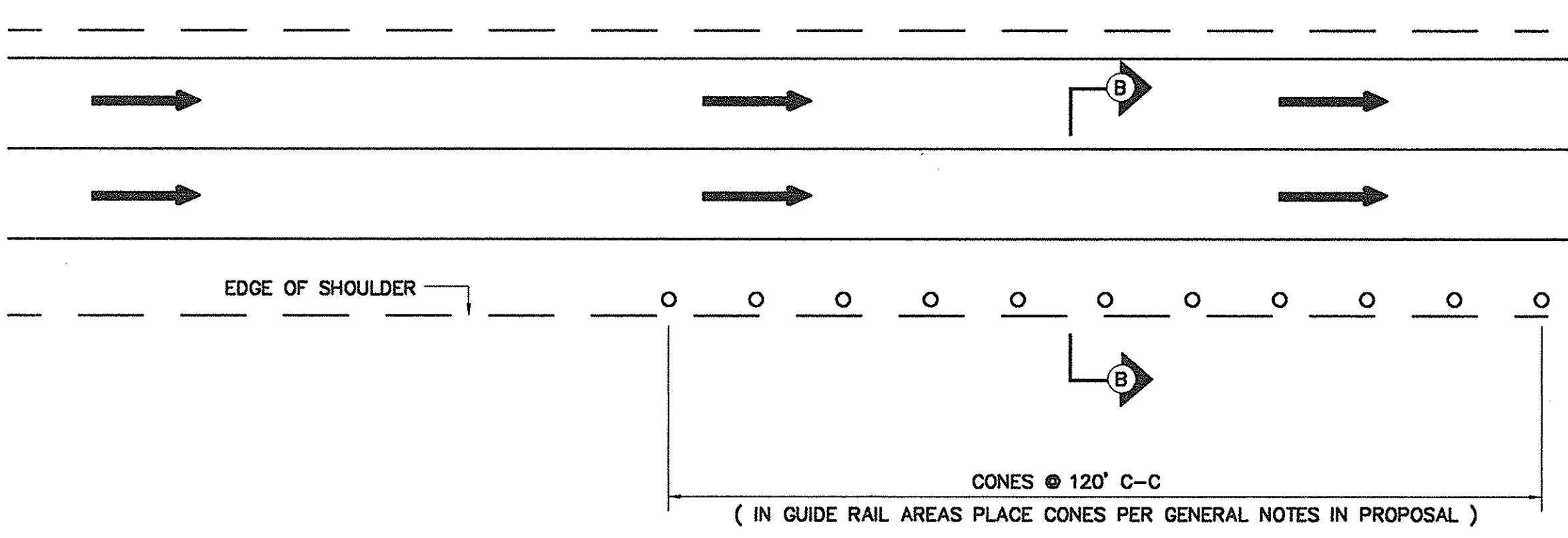
**TRAFFIC CONTROL PLAN IN AREAS WITH A SHOULDER DROP OF 1 1/2 INCHES TO 4 INCHES**

(\*) W9-2Y SIGN IS REQUIRED EVERY 1/2 MILE UNLESS WITHIN 1,000' OF END OF SECTION.  
NOTE: REPEAT W4-12E SIGN EVERY 1,000'

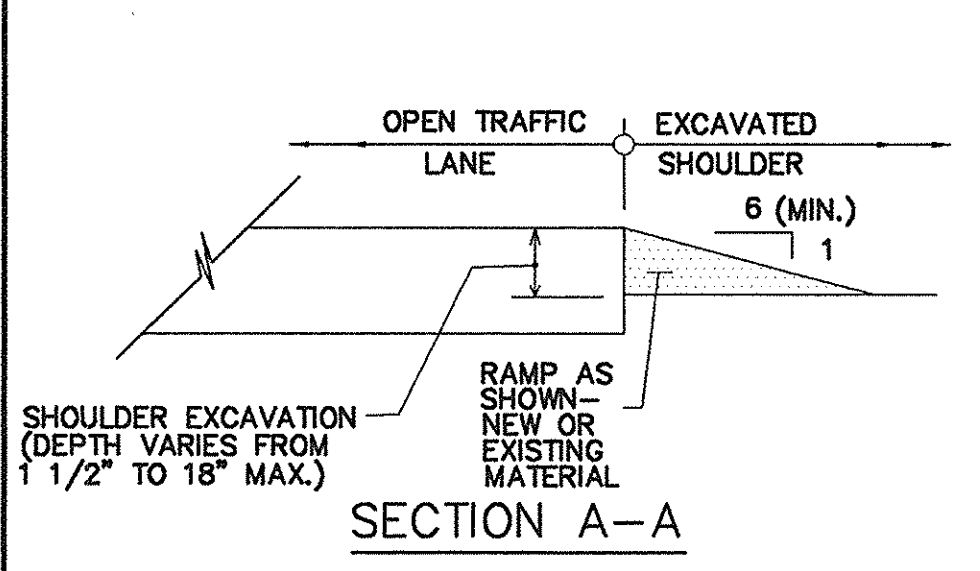


**TRAFFIC CONTROL PLAN IN AREAS WITH A SHOULDER DROP OF MORE THAN 4 INCHES AND LESS THAN 18 INCHES**

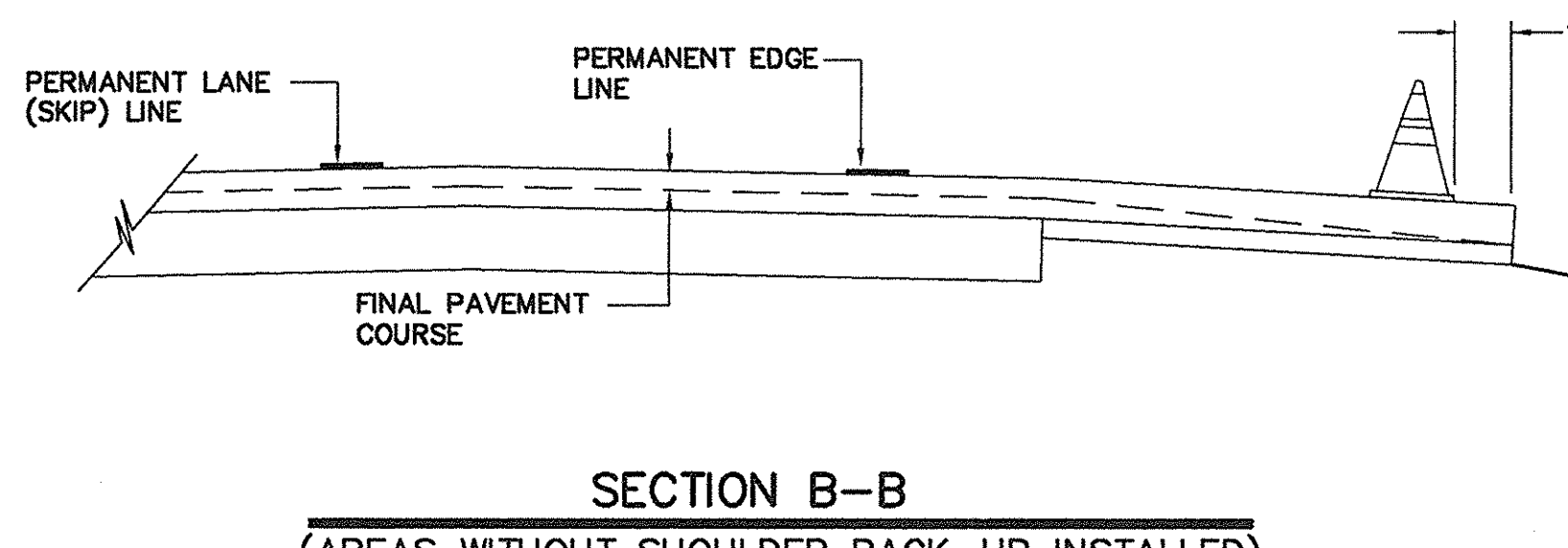
NOTE: REPEAT W4-13E SIGN EVERY 1,000 FEET.



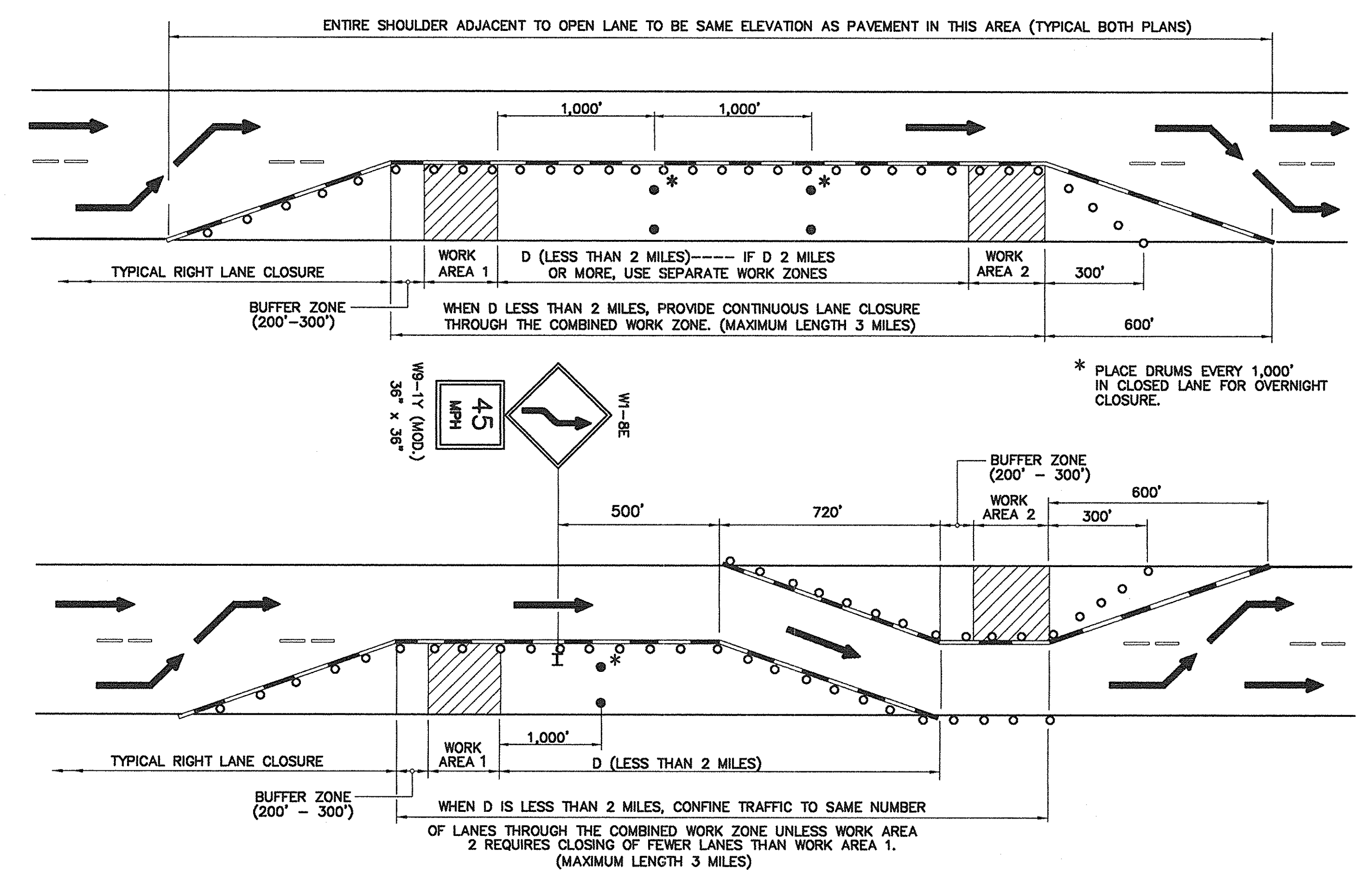
**TRAFFIC CONTROL PLAN IN AREAS WITH FINAL PAVEMENT COURSE PLACED AND PERMANENT PAVEMENT DELINEATION INSTALLED WITH DROP AT EDGE OF SHOULDER**



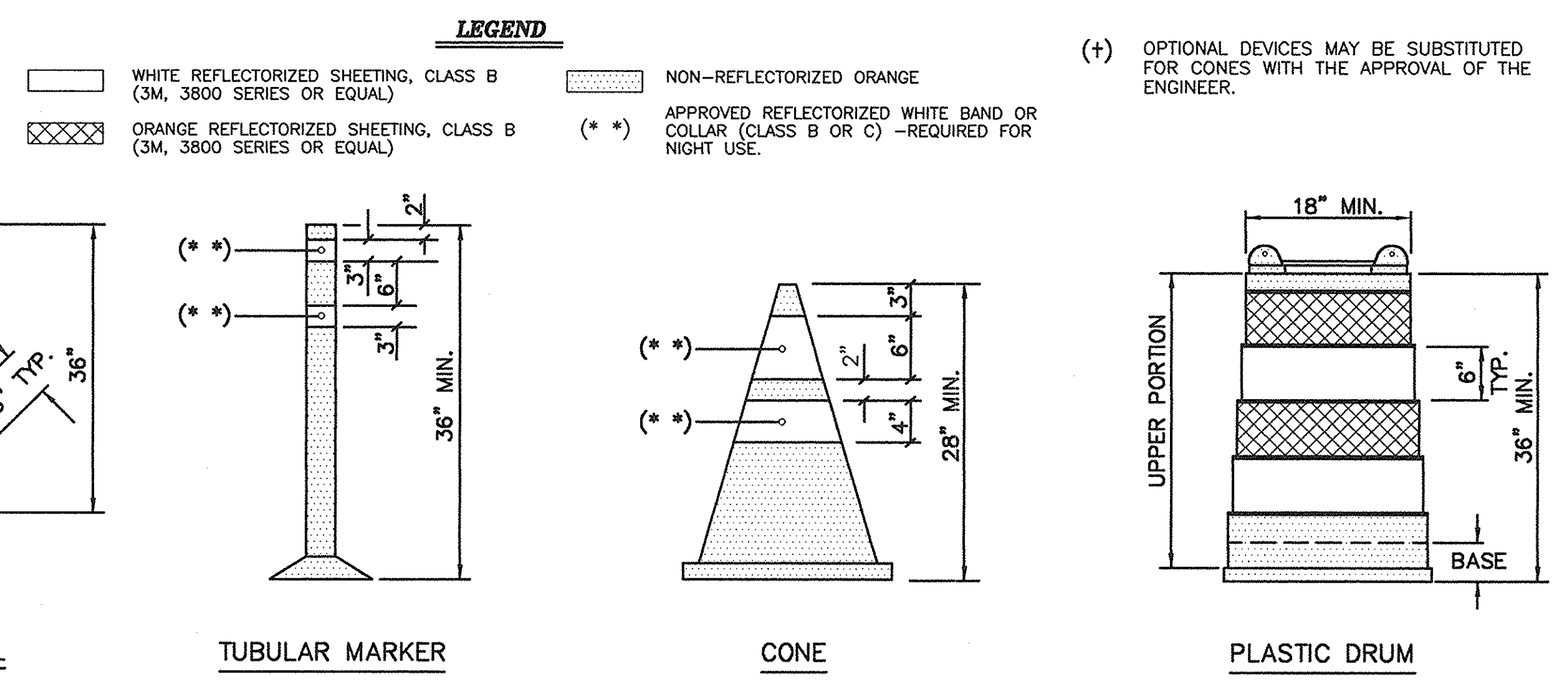
SECTION A-A



SECTION B-B  
(AREAS WITHOUT SHOULDER BACK-UP INSTALLED)



**SUCCESSIVE WORK ZONES - TWO LANE SECTIONS (THREE LANE SIMILAR)**



**TRAFFIC CONTROL DEVICES**

**NOTE "A"**

EXISTING PAVEMENT MARKINGS SHALL BE MAINTAINED BY THE CONTRACTOR WITHIN PROJECT LIMITS. IF CONTRACTOR'S OPERATIONS IN ANY WORK ZONE WILL EXCEED A PERIOD OF 2 WEEKS, OR AS DIRECTED BY THE ENGINEER, CONTRACTOR SHALL COMPLETELY REMOVE PORTIONS OF EXISTING MARKINGS AND INSTALL TEMPORARY MARKINGS AS DETAILED ABOVE. TEMPORARY MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.  
WHEN ALL WORK IS TO BE COMPLETED IN THE WORK ZONE, OR AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE THE TEMPORARY MARKINGS AND RESTORE THE EXISTING MARKINGS.

**NOTES FOR SHOULDER EXCAVATION PROTECTION:**

THE DISTANCE BETWEEN THE W4-12E OR W4-13E SIGNS SHALL NOT EXCEED ONE HALF MILE. USE W9-2Y ON FIRST SIGN TO NEAREST HALF MILE WHEN THE AREA BEING PROTECTED EXCEEDS ONE HALF MILE IN LENGTH. ONLY THE LEFT OR RIGHT SHOULDER MAY BE WORKED ON AT ONE TIME.  
DRUMS AND CONES SHALL BE PLACED AND MAINTAINED SO THAT AT LEAST TWO THIRDS OF THEIR HEIGHT IS EXPOSED ABOVE THE PAVEMENT.  
IF THE DEPTH OF EXCAVATION EXCEEDS 18" THE ADJACENT LANE SHALL REMAIN CLOSED.  
TYPICAL PLAN FOR RIGHT SHOULDER SHOWN. LEFT SHOULDER PROTECTION IS SAME DETAIL.  
EXCAVATED SHOULDER TO BE RAMPED DOWN (SECTION A-A) DURING NON-WORK HOURS.

STATE OF NEW YORK  
WILLIAM R. VANALST  
PROFESSIONAL ENGINEER  
No. 05530  
7/14/98  
Date  
William R. VanAlst, P.E.

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
<b>LARSEN ENGINEERS</b> 700 WEST METRO PARK ROCHESTER, NEW YORK 14623-2678 (716)272-7310 FAX (716)272-0159			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT <b>BRIDGE SCOUR PROTECTION PLANS</b>			
LOCATION OF PROJECT <b>M.P. 253.52 TO M.P. 297.20</b> <b>COUNTIES OF</b> <b>ONEIDA, MADISON, AND ONONDAGA</b>			
TITLE OF DRAWING <b>THRUWAY TRAFFIC PLANS FOR</b> <b>MISCELLANEOUS OPERATIONS</b>			
CONTRACT NUMBER: <b>TAS 98-22B</b>		DATE: <b>JULY 1998</b>	
DRAWING NUMBER: <b>TR-2</b>			

NOTES:  
FOR MOBILE AND STATIONARY (SHORT TERM)  
TRAFFIC CONTROL PLAN:

- THESE PLANS ARE TO BE UTILIZED ONLY WHEN AUTHORIZED BY THE ENGINEER.
- TRUCK MOUNTED FLASHING ARROW BOARD SHALL CONFORM TO SECTION 294.5 OF M.U.T.C.D. MINIMUM SIZE SHALL BE TYPE "B" 54" x 30" FULL ARROW FLASH ONLY (TRAILER MOUNTED ARROW BOARDS SHALL BE TYPE "C" 96" x 48"); NO CHEVRONS NOR SEQUENTIAL ARROW FLASH WILL BE ALLOWED.
- WHERE THE PASSING LANE IS TO BE CLOSED, THE FIRST UNIT IS TO BE LOCATED IN THE MALL, THE SECOND STRADDLES THE MALL AND LEFT LANE AND THE THIRD UNIT IS IN THE LEFT LANE. THE UNITS WILL DISPLAY FLASHING RIGHT ARROWS.
- WHERE THE DRIVING LANE IS TO BE CLOSED, THE FIRST UNIT IS TO BE LOCATED ON THE RIGHT SHOULDER, THE SECOND STRADDLES THE SHOULDER AND DRIVING LANE AND THE THIRD UNIT IS IN THE DRIVING LANE. THE UNITS WILL DISPLAY FLASHING LEFT ARROW.
- THE MINIMUM HEIGHT OF FLASHING ARROW BOARDS SHALL BE 5'- 0" FROM THE PAVEMENT TO THE BOTTOM OF THE PANEL.
- THE MOBILE CONSTRUCTION ZONE IMPACT ATTENUATOR SHALL CONFORM TO THE REQUIREMENTS OF SECTION 712-06 OF THE STANDARD SPECIFICATIONS.
- THE SHADOW VEHICLE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 619-1.02N OF THE STANDARD SPECIFICATIONS.
- THE STATIONARY (SHORT TERM) LANE CLOSURE MAY BE UTILIZED AT ONE WORK ZONE, ONCE A WORKING DAY, FOR A DURATION OF 2 HOURS OR LESS.
- THE CONTRACTOR MAY USE THE MOBILE LANE CLOSURE PLAN FOR A SHORT TERM STATIONARY CLOSURE PROVIDING THAT TRAFFIC CONES AND SIGNING ARE INCLUDED AS DETAILED IN THE STATIONARY PLAN.
- THE STATIONARY SHORT TERM LEFT LANE CLOSURE MAY BE MODIFIED TO A RIGHT LANE CLOSURE BY REPLACING THE W8-7D SIGN WITH A W8-8D PANEL. THE RIGHT LANE CLOSURE WILL OTHERWISE BE A MIRROR IMAGE OF THE LEFT LANE CLOSURE SIGN.
- THE W8-7D OR W8-8D PANELS MUST BE SUPPLEMENTED AS SHOWN WITH HIGH INTENSITY FLASHERS.
- THE "LANE CLOSED" SIGN SHALL BE MOUNTED BELOW THE FLASHING ARROW-BOARD ON THE VEHICLE SHOWN.
- ALL "W" SERIES SIGNS SHALL BE BLACK ON FLUORESCENT ORANGE. ALL REFLECTORIZED SIGN BACKGROUNDS SHALL BE CLASS "B" OR "C" REFLECTIVE SHEETING.

LEGEND

- MOBILE CONSTRUCTION ZONE IMPACT ATTENUATOR
- TRAFFIC CONE
- FLASHING ARROW BOARD - SHADOW VEHICLE MOUNTED.
- FLASHING ARROW BOARD - TRAILER MOUNTED.
- FLASHING LIGHTS (LOW INTENSITY FOR NIGHT USE OR A.O.B.E.)

FOOTNOTES

- (1) TRUCKS SHALL NOT BE PERMITTED TO REMAIN ATTACHED TO THE TRAILERS WITHIN THE CLOSURE SET-UP.
- (2) OPTIONAL DEVICES MAY BE SUBSTITUTED FOR CONES WITH THE APPROVAL OF THE ENGINEER.

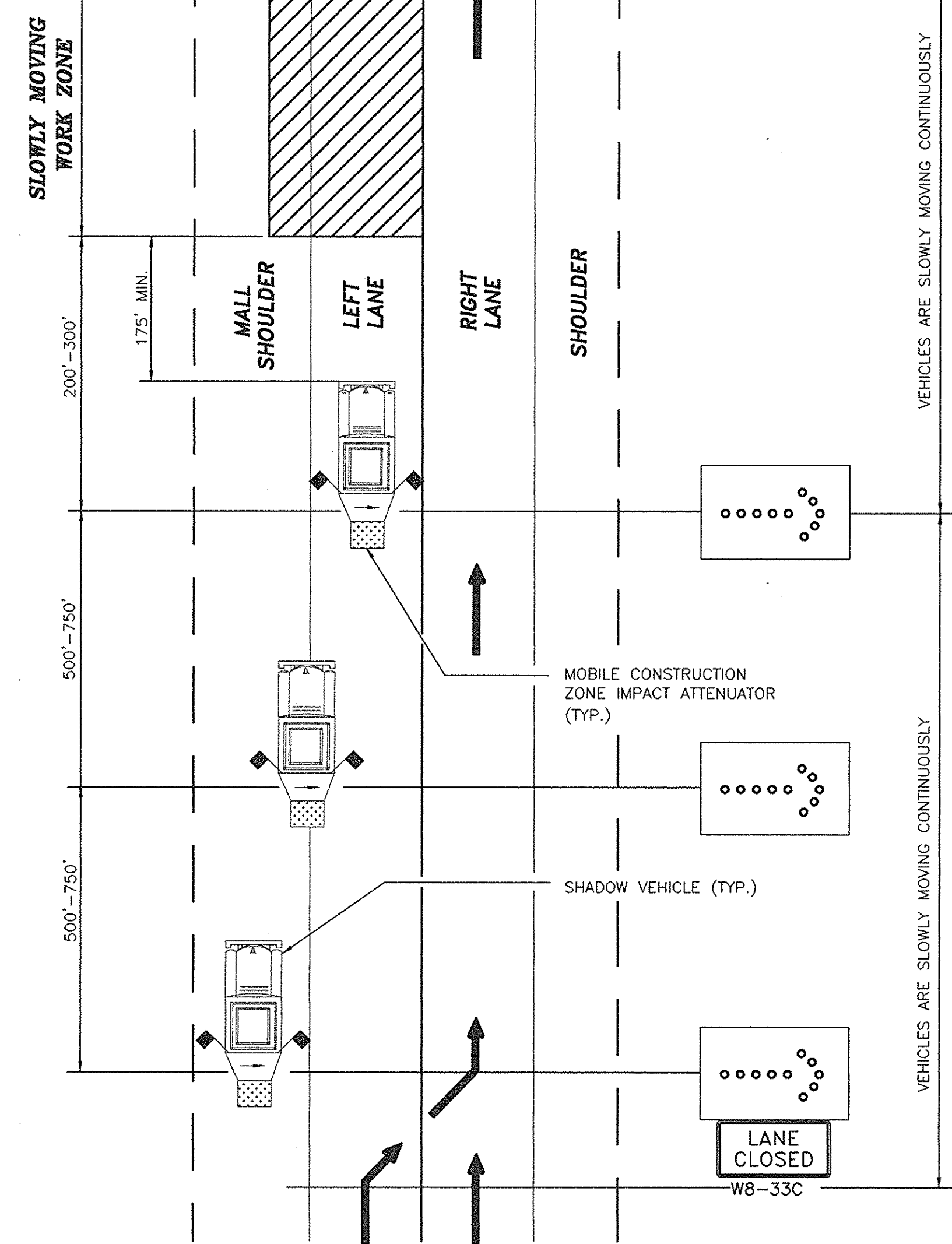
LEGEND

- WHITE REFLECTORIZED SHEETING, CLASS B (3M, 3800 SERIES OR EQUAL)
- ORANGE REFLECTORIZED SHEETING, CLASS B (3M, 3800 SERIES OR EQUAL)
- NON-REFLECTORIZED ORANGE
- APPROVED REFLECTORIZED WHITE BAND OR COLLAR (CLASS B OR C) -REQUIRED FOR NIGHT USE.

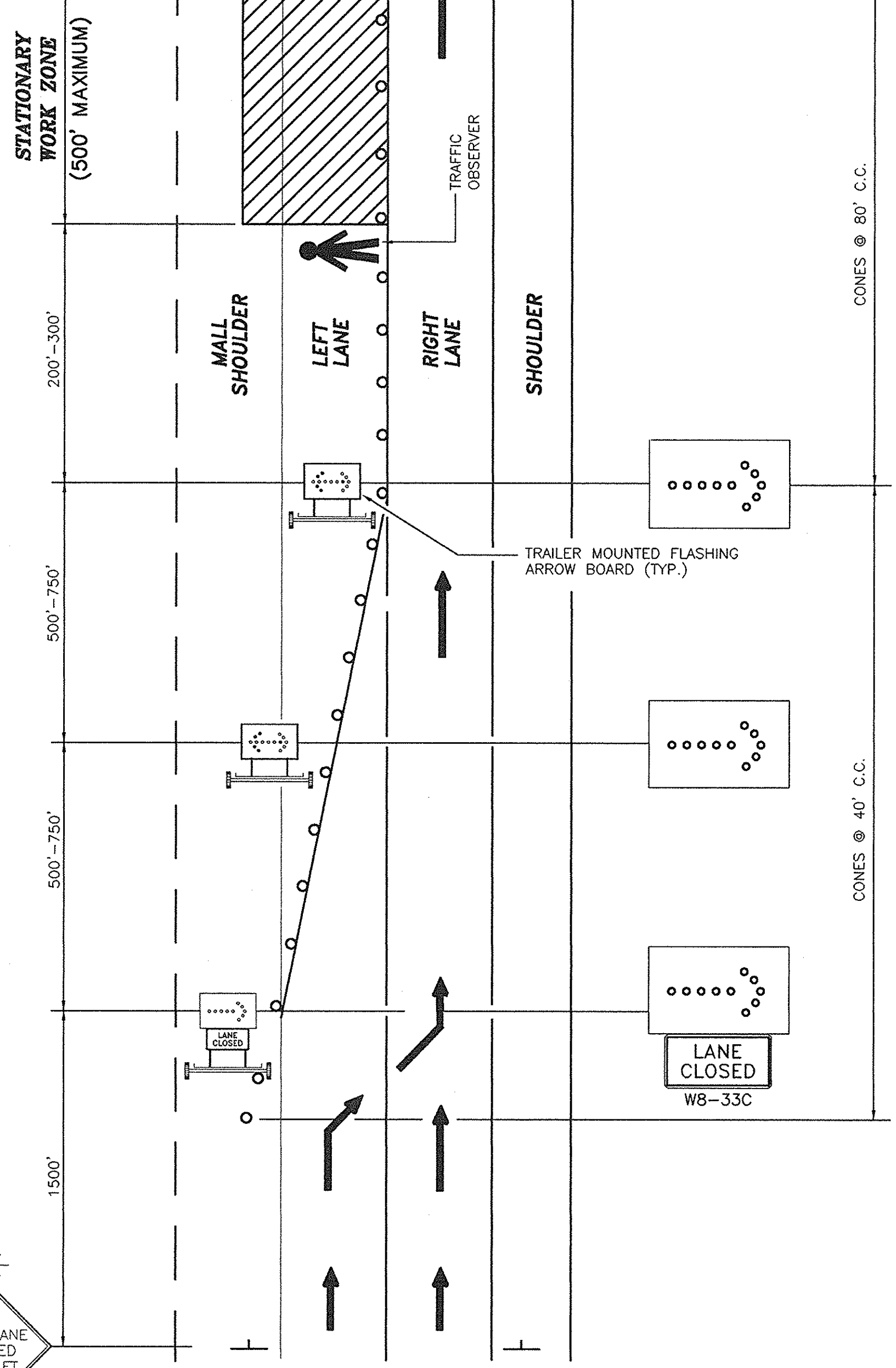
STATE OF NEW YORK  
WILLIAM R. VAN ALST  
LICENSED PROFESSIONAL ENGINEER  
NO. 05520  
7/14/98  
William R. VanAlst, P.E. Date

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
<b>LARSEN ENGINEERS</b> 700 WEST METRO PARK ROCHESTER, NEW YORK 14623-2678 (716)272-7310 FAX (716)272-0159			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT <b>BRIDGE SCOUR PROTECTION PLANS</b>			
LOCATION OF PROJECT <b>M.P. 253.52 TO M.P. 297.20</b> <b>COUNTIES OF</b> <b>ONEIDA, MADISON, AND ONONDAGA</b>			
TITLE OF DRAWING <b>MOVABLE AND SHORT TERM OPERATIONS</b>			
CONTRACT NUMBER: <b>TAS 98-22B</b>		DRAWING NUMBER: <b>TR-3</b>	

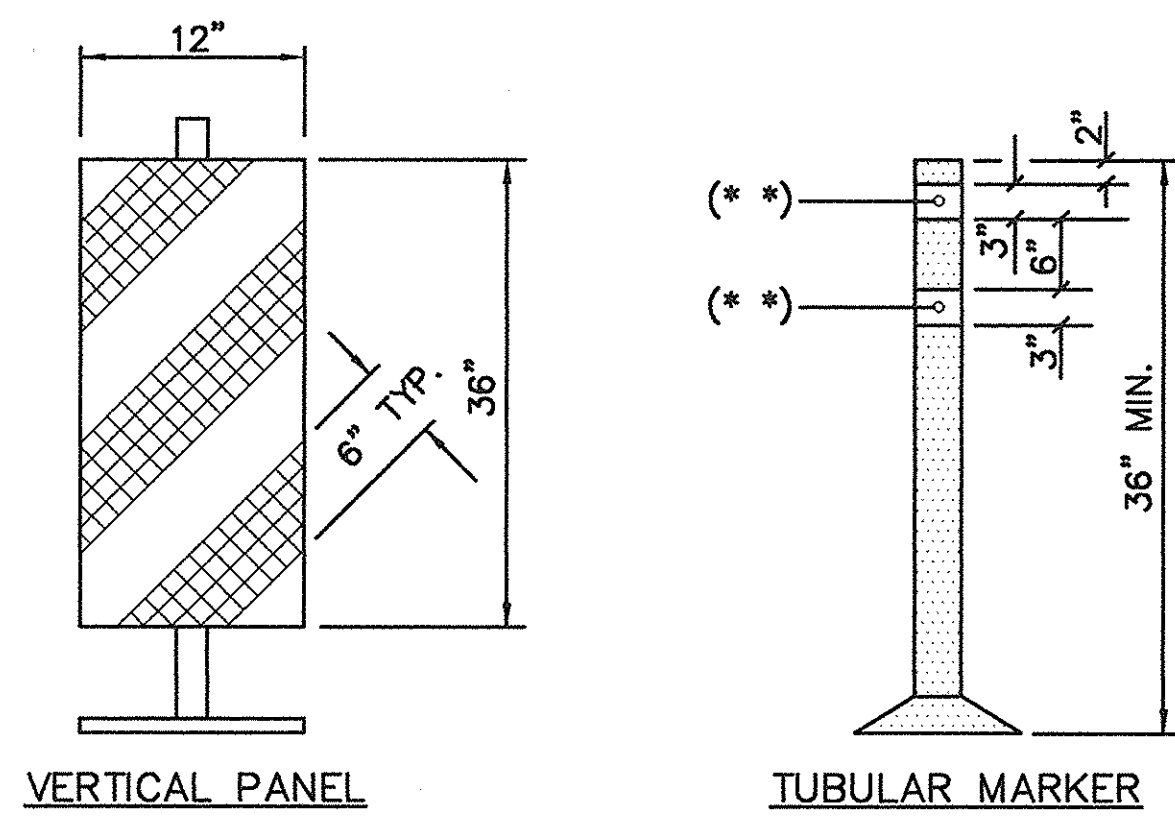
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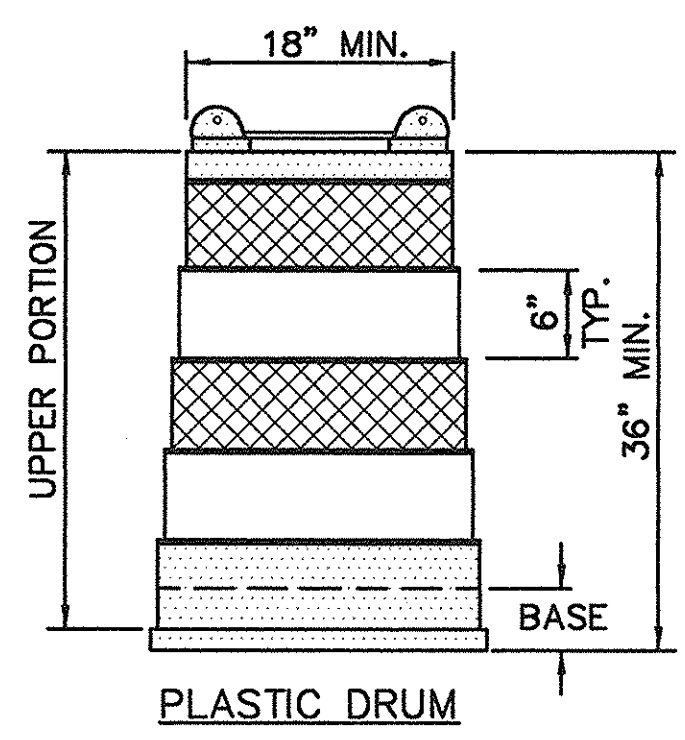
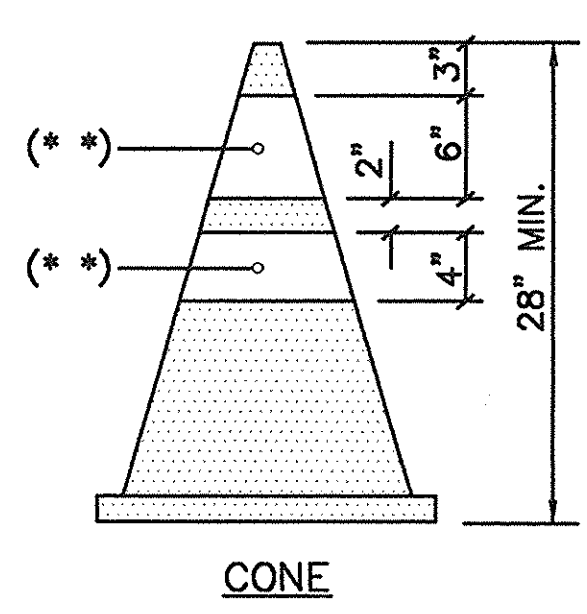
MOVABLE TRAFFIC CONTROL PLAN  
FOR SINGLE LANE CLOSURE



STATIONARY TRAFFIC CONTROL PLAN  
FOR SHORT TERM LEFT LANE CLOSURE (1)



TRAFFIC CONTROL DEVICES (2)



IN CHARGE OF: W.R.V. DESIGNED BY: R.D.P. DRAFTED BY: J.W.T. CHECKED BY: J.D.B.



A. EXISTING PAVEMENT MARKINGS SHALL BE MAINTAINED BY THE CONTRACTOR WITHIN PROJECT LIMITS. IF CONTRACTORS' OPERATIONS IN ANY WORK ZONE WILL EXCEED A PERIOD OF 2 WEEKS OR AS DIRECTED BY THE ENGINEER, CONTRACTOR SHALL COMPLETELY REMOVE PORTIONS OF EXISTING MARKINGS AND INSTALL TEMPORARY MARKINGS AS DETAILED. TEMPORARY MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. WHEN ALL WORK IS COMPLETED IN THE WORK ZONE, OR AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE THE TEMPORARY MARKINGS AND RESTORE THE EXISTING MARKINGS.

B. ON ANY SECTION OF THE EXPRESSWAY, WHERE THE MAINLINE ADJACENT TO AN ACCELERATION LANE IS REDUCED TO A SINGLE THROUGH LANE, "YIELD" (R1-2D) AND "YIELD AHEAD" (W2-16D) SIGNS MUST BE PLACED ON THE ACCELERATION LANE (ENTRANCE RAMP) IN ACCORDANCE WITH THE GUIDELINES ESTABLISHED IN THE N.Y.S.M.U.T.C.D..

## LEGEND

- FLAGGER
- EXISTING PAVEMENT MARKINGS (BROKEN OR SOLID)
- REMOVAL OF EXISTING PAVEMENT MARKINGS DURING CONSTRUCTION
- TEMPORARY PAVEMENT MARKING FOR CONSTRUCTION (SEE NOTE A)
- SIGN
- ▨ WORK AREA
- XX } APPROPRIATE EXIT NUMBER OR DISTANCE
- XXX }
- TRAFFIC CONES (SPACING AS SHOWN)
- DRUM
- \* USE ONLY FOR LANE CLOSURE ON TWO-LANE RAMPS
- \*\* ONLY IF WORK ENDS HERE
- † USE ONLY WHEN FLAGGER IS ON DUTY
- †† REMOVE DURING NON-WORK HOURS

## NOTE:

IF NECESSARY, CONSULT THE DIVISION TRAFFIC SUPERVISOR FOR OTHER VARIATIONS.

DATE	DESCRIPTION	BY	SYM.

## REVISIONS



**LARSEN ENGINEERS**  
700 WEST METRO PARK  
ROCHESTER, NEW YORK 14623-2678  
(716)272-7310 FAX (716)272-0159

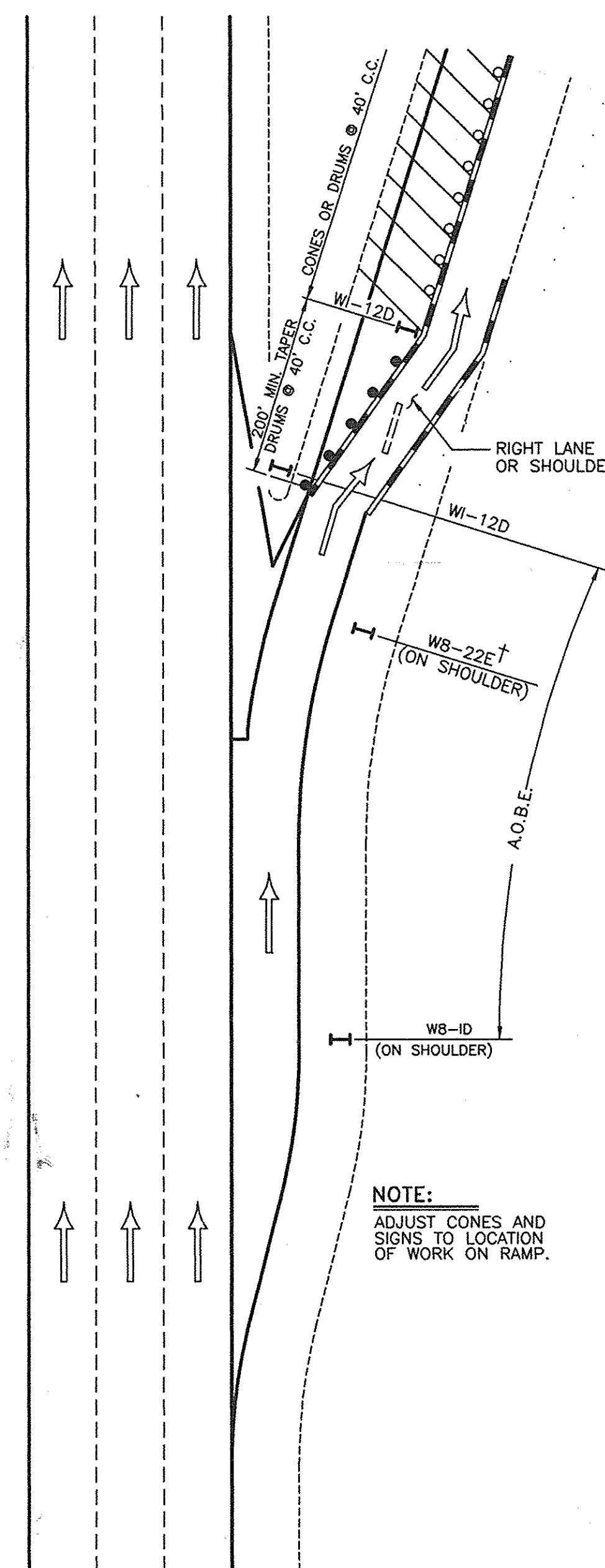
NEW YORK STATE THRUWAY AUTHORITY  
DEPARTMENT OF MAINTENANCE AND ENGINEERING  
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT  
**BRIDGE SCOUR PROTECTION PLANS**

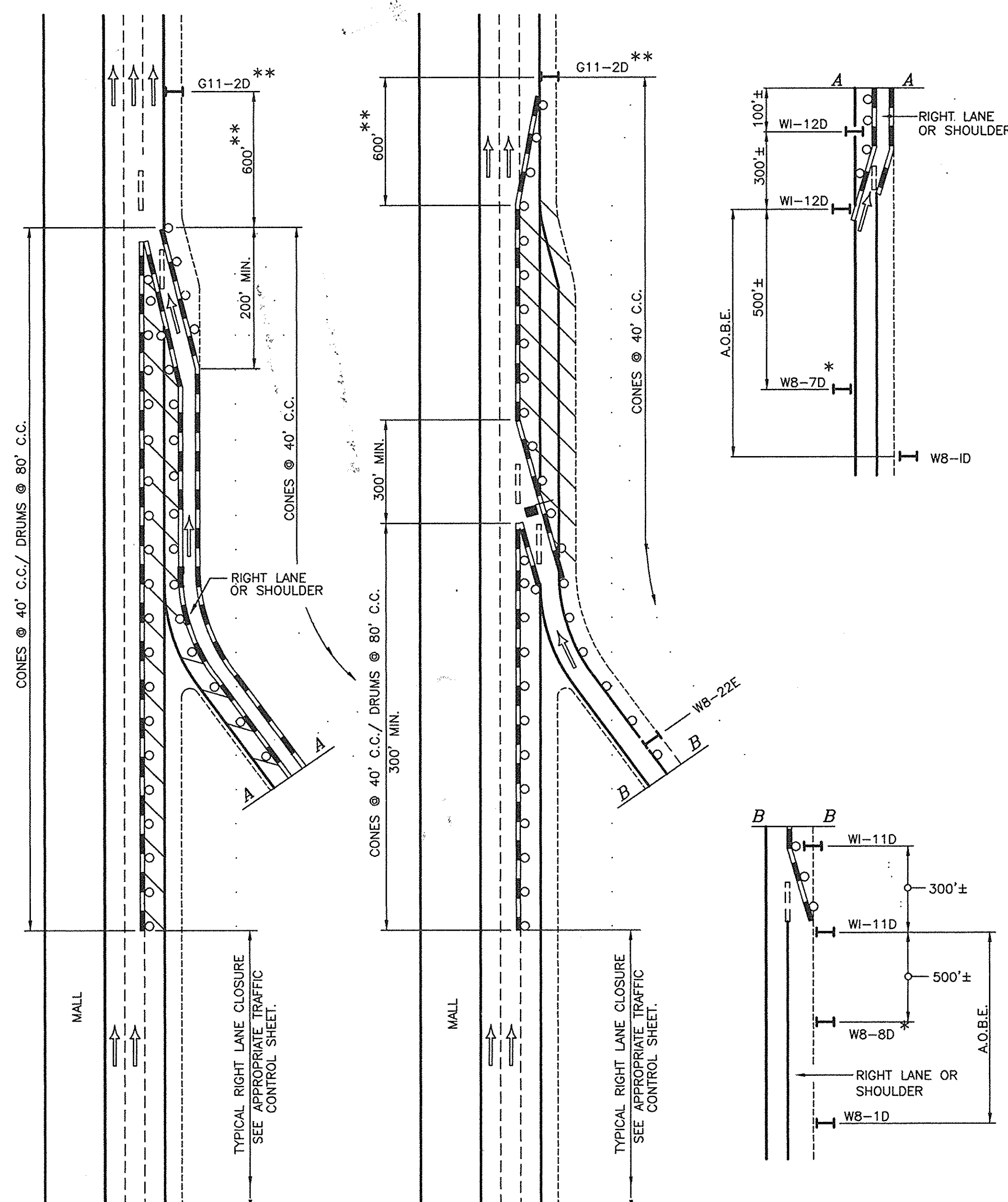
LOCATION OF PROJECT  
**M.P. 253.52 TO M.P. 297.20**  
**COUNTIES OF**  
**ONEIDA, MADISON, AND ONONDAGA**

TITLE OF DRAWING  
**TRAFFIC CONTROL AT**  
**INTERCHANGES, SERVICE**  
**AREAS, AND PARKING AREAS**

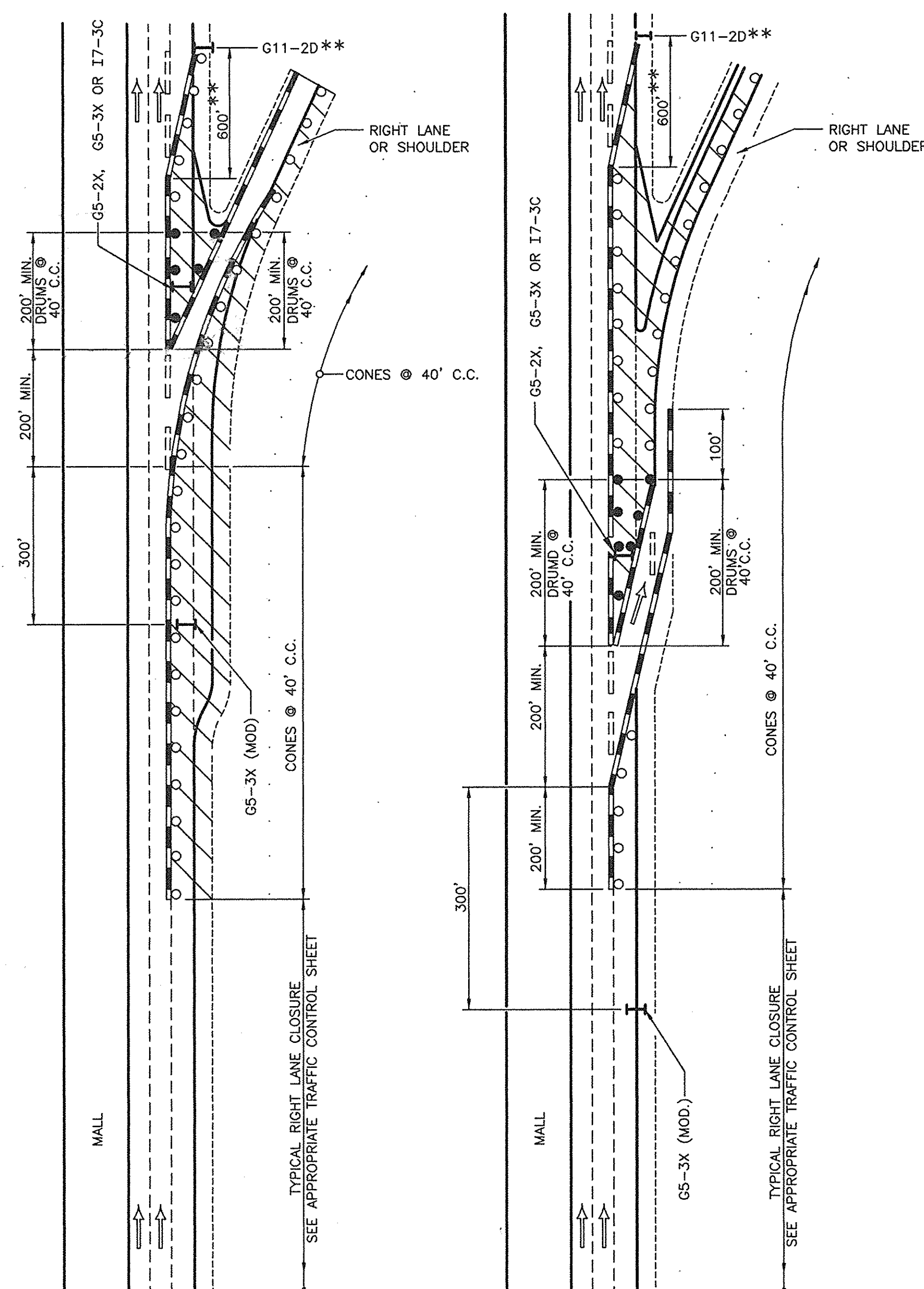
CONTRACT NUMBER:  
**TAS 98-22B**  
DATE:  
**JULY 1998**  
DRAWING NUMBER:  
**TR-4**



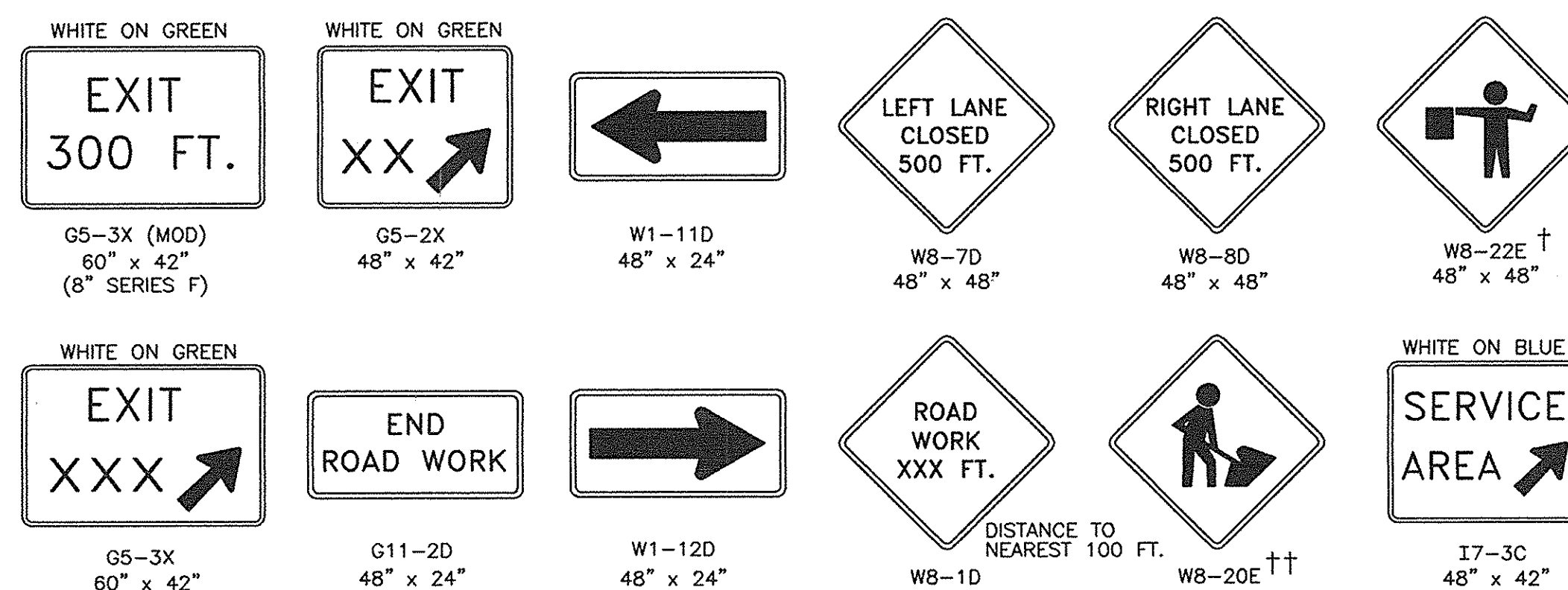
**TYPICAL WORK ZONE ON RAMP**  
N.T.S.



**TYPICAL ACCELERATION LANE**  
N.T.S.



**TYPICAL DECELERATION LANE**  
N.T.S.



## SIGNS

N.T.S.

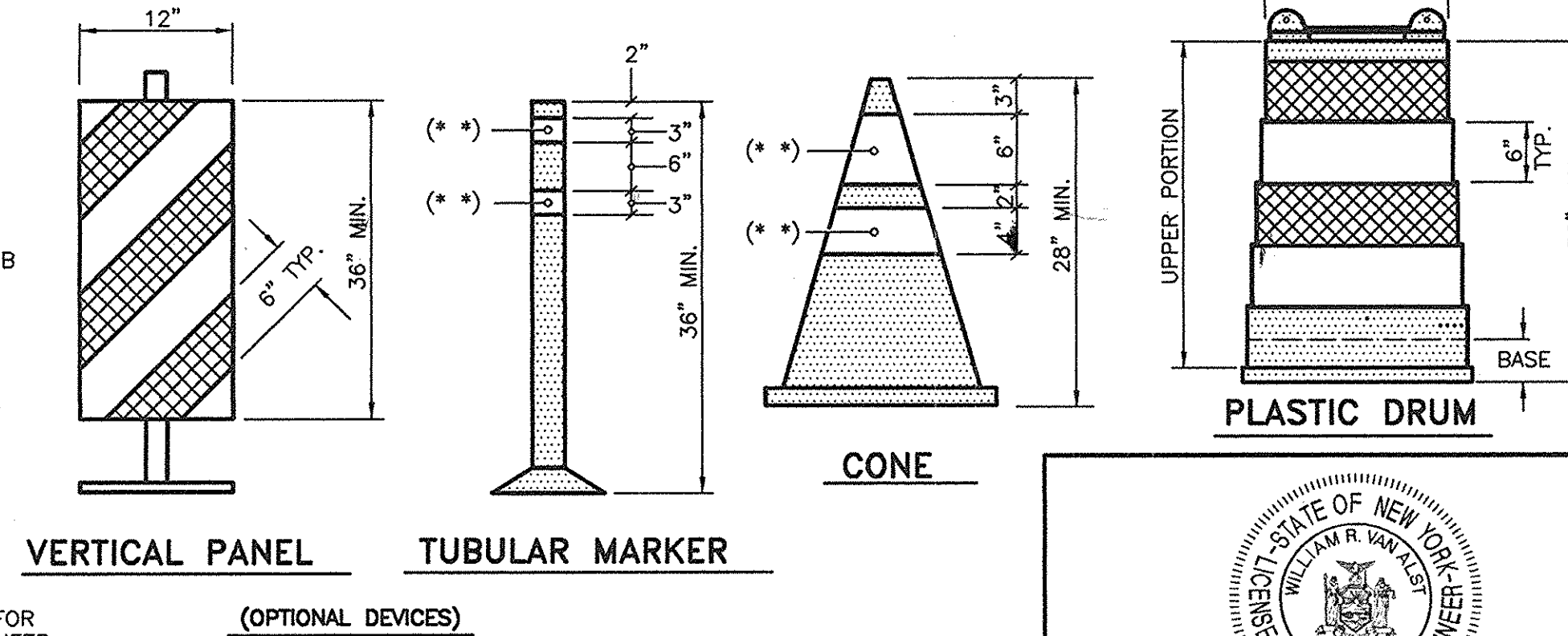
NOTE: ALL "W" SERIES SIGNS SHALL BE BLACK LEGEND ON FLOURESCENT ORANGE BACKGROUND.

## LEGEND

- WHITE REFLECTORIZED SHEETING, CLASS B (3M, 3800 SERIES OR EQUAL)
- ▨ ORANGE REFLECTORIZED SHEETING, CLASS B (3M, 3800 SERIES OR EQUAL)
- NON-REFLECTORIZED ORANGE
- (\*) APPROVED REFLECTORIZED WHITE BAND OR COLLAR (CLASS B OR C) —REQUIRED FOR NIGHT USE.

## NOTE

OPTIONAL DEVICES MAY BE SUBSTITUTED FOR CONES WITH THE APPROVAL OF THE ENGINEER.



**TRAFFIC CONTROL DEVICES**  
N.T.S.



*William R. VanAlst* 7/14/98  
William R. VanAlst, P.E. Date