

Environmental Protection

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE MYS DEPARTMENT OF TRANSPORTATION, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT, ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS DTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS ALS CUSTOMARY) REFERENCED IN THE CONTRACT PROJECT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT PROJECT "PROPOSAL."

PREPARED BY

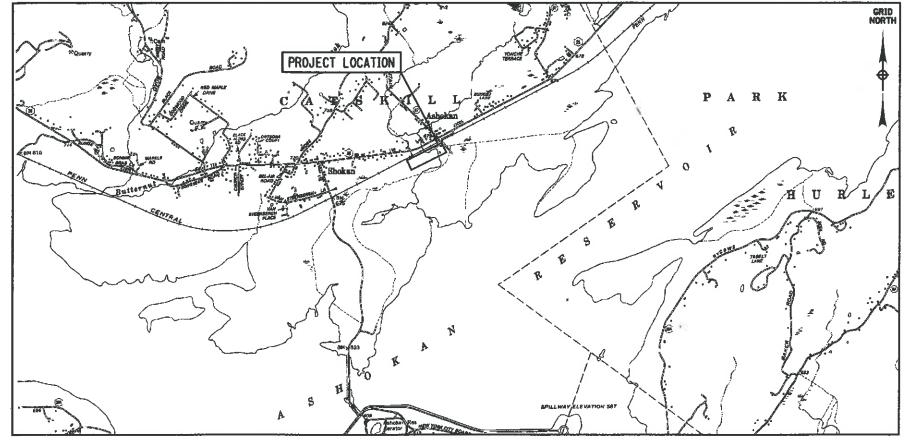
TRAILHEAD CONSTRUCTION PROJECT: ASHOKAN RAIL TRAIL, TOWN OF OLIVE

CONSTRUCTION PLANS

LOCATIONS ASHOKAN RAIL TRAIL TRAILHEAD

PROJECT DESCRIPTION:

CONSTRUCTION OF A TRAILHEAD ON MY ROUTE 28 IN THE TOWN OF OLIVE. INCLUDED IS A NEW PARKING LOT, TRAILHEAD AMENITIES AND STORMWATER MANAGEMENT PRACTICES NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

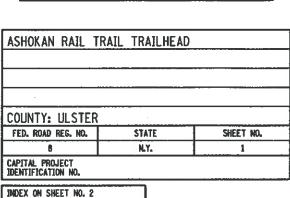


PROJECT LOCATION

RECOMMENDED BY

CHARLES LIANG
NEW YORK CITY DEPARTMENT OF
ENVIRONMENTAL PROTECTION

DATE



- ENGINEERS -

POFESSIONAL

BEACON, NEW YORK 12508 (845) 838-3600 www.hveapc.com

		•

ES END SECTION HW HEADWALL INV INVERT MH MANHOLE MHW MEAN HIGH WATER OHW ORDINARY HIGH WATER OLW ORDINARY LOW WATER RCP REINFORCED CONCRETE PIPE

TC TOP OF CURB TG TOP OF GRATE VCP VITRIFIED CLAY PIPE

SICPP SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
TB TOP OF BANK (STREAM)

	ALIGNMENT		TOPOGRA	PHY (MISCELLANEOUS)			UTILITIES
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION)N		ABBR.	DESCRIPTION
ADDIN:	AHEAD	ABU*		,,,		E	ELECTRIC
AZ	AZIMUTH	AOBI		BY ENGINEER		EMH	ELECTRIC MANHOLE
BK	BACK	ASPI				G	GAS
B	BASELINE	BD'	Y BOUNDARY			GP	GUY POLE
BRG	BEARING	BLD				GSB	GAS SERVICE BOX (HOUSE LINE)
<u>¢</u>	CENTERLINE	В	BENCH MARK			GV	GAS VALVE (MAIN LINE)
CS	CURVE TO SPIRAL	CO	CENTER TO C	ENTER		HYD	HYDRANT
е	SUPERELEVATION RATE (CROSS SLOPE)	CON	CONCRETE			LP	LIGHT POLE
EQ	EQUALITY	CONS	_			LPG	LOW PRESSURE GAS
EXT	EXTERNAL	CI				PP	POWER POLE
HCL	HORIZONTAL CONTROL LINE		DEED DISTAN			SA	SANITARY SEWER
HSD	HEADLIGHT SIGHT DISTANCE	DN		UREMENT		SMH	SANITARY MANHOLE
L L	LENGTH OF CIRCULAR CURVE	DW	_	EMENT		ST T	STORM SEWER
LS	LENGTH OF SPIRAL	El	_			Top	TELEPHONE TRAFFIC CONTROL BOX
LVC	LENGTH OF VERTICAL CURVE	FEI				TCB TELBOX	TELEPHONE BOX
E M	CENTER CORRECTION OF VERTICAL CURVE MAIN LINE	FEE WO/		TON WITHOUT ACCESS		TEL P	TELEPHONE POLE
PC	POINT OF CURVATURE	FEE WOTE		ION WITHOUT ACCESS		TMH	TELEPHONE MANHOLE
PI	POINT OF CONVATORE POINT OF INTERSECTION	FI				CTV	CABLE TELEVISION
POL	POINT ON LINE	FI				W	WATER
PSD	PASSING SIGHT DISTANCE	GAI				WSB	WATER SERVICE BOX (HOUSE LINE)
PT	POINT OF TANGENT	GI	_			WV	WATER VALVE (MAIN LINE)
PVC	POINT OF VERTICAL CURVE	H	_				
PVI	POINT OF VERTICAL INTERSECTION	HW	_				SUBSURFACE EXPLORATION
PVT	POINT OF VERTICAL TANGENT	II	-	IRON PIPE		ABBR.	DESCRIPTION
R	RADIUS	ME	_				
SC	SPIRAL TO CURVE	MOI	MONUMENT			REP	LACE ABBREVIATION "AB" WITH:
SSD	STOPPING SIGHT DISTANCE	N&V	NAIL AND WA	SHER		AH	HAND AUGER
ST	SPIRAL TO TANGENT	00	ORIGINAL GRO	DUND		CP	CONE PENTROMETER
STA	STATION	0/1	H OVERHEAD			DA	21/4 INCHES CASED DRILL HOLE
Т	TANGENT LENGTH	f	PARCEL			DM	DRILLING MUD
TGL	THEORETICAL GRADE LINE	PAV'	T PAVEMENT			DN	4 INCHES CASED DRILL HOLE
TS	TANGENT TO SPIRAL	PE				FH	HOLLOW FLIGHT AUGER
VC	VERTICAL CURVE	PED POLE				PA	POWER AUGER
	TOPOGRAPHY (DRAINAGE)		-	NE		PH	PROBE
ABBR.	DESCRIPTION	POF				PT	PERCOLATION TEST HOLE
<u> </u>		RI				RP	1 INCH SAMPLER (RETRACTABLE PLUG)
BB	BOTTOM OF BANK (STREAM)	RTE					TO BE DEFINED AT THE TIME OF EXPLORATION
BC B0	BOTTOM OF CURB BOTTOM OF OPENING	ROV				SP	SEISMIC POINT
CAP	CORRUGATED ALUMINUM PIPE	RI	- 			TP ADDDEVI	TEST PIT ATION "C" IN CATEGORIES:
CB	CATCH BASIN	SHLD		A1		DA. DM.	DN, AND FH WITH:
CIP	CAST IRON PIPE	SPI				B	BRIDGE
© STRM	CENTERLINE OF STREAM	S	_			C	CUT
CMP	CORRUGATED METAL PIPE	STI				D	
CP	CONCRETE PIPE	ST				F	FILL
CSP	CORRUGATED STEEL PIPE	SV					CULVERT
CULV	CULVERT	TE		ASEMENT		<u>,,,</u>	WALL
DIA	DIAMETER	TO				X	TO BE USED IF ONE OF THE ABOVE CANNOT
DMH	DRAINAGE MANHOLE	U/(UNDERGROUND				BE DEFINED AT THE TIME THE EXPLORATION
DS	DRAINAGE STRUCTURE PIPE	WY	WING WALL				IS MADE
D'XING	DITCH CROSSING				•		
EHW	EXTREME HIGH WATER		CTANDADD	ITEM DAVMENT UNIT	FOUR	AL CAIT	
EL	ELEVATION		STANDARD Symbol	ITEM PAYMENT UNIT: ESTIMATE OF		'ALENT NCLATURE:	
ELEV	ELEVATION		(PLANS)	QUANTITIES SHEET		S/PROPOS	
ELW	EXTREME LOW WATER	_ -	1 LN13/	QUANTITIES SHEET	THOUSE		ner
					I INCHEC		

	INDEX TOTAL NUMBER OF SHEETS: 37				
SHEET NUMBER	DESCRIPTION	DRAWING NUMBER			
1	TITLE SHEET		COVER		
2	INDEX AND ABBREVIATIONS		INDEX		
3-4	LEGEND, LINE AND POINT SYMBOLOGY		LEG-1 TO LEG-2		
5	TYPICAL SECTIONS		TYP-1		
6	GENERAL NOTES		GNN-1		
7-8	TRAFFIC CONTROL PLANS		TCP-1 TO TCP-2		
9	HORIZONTAL LAYOUT	HLT-1			
10	ELEVATION LAYOUT		ELT-1		
11-13	MISCELLANEOUS DETAILS		MSD-1 TO MSD-3		
14-15	EROSION CONTROL NOTES		ECN-1 TO ECN-2		
16-20	EROSION CONTROL DETAILS		ECD-1 TO ECD-5		
21	EROSION CONTROL PLANS		ECP-1		
22	GENERAL PLAN		GNP-1		
23	SIGN TABLE		SDT-1		
24	PAVEMENT MARKING PLANS		PMP-1		
25-32	STORMWATER MANAGEMENT DETAILS		SMD-1 TO SMD-8		
33	DRAINAGE TABLES	DRT-1			
34-35	DRAINAGE DETAILS		DRD-1 TO DRD-2		
36	DRAINAGE PLANS	DRP-1			
37	ESTIMATE OF QUANTITIES		E0Q-1		

STANDARD Symbol (Plans)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
II .	-	INCHES
,	LF	LINEAR FEET
Mαο	MI	MILES
W <u>(</u> †∆	SF	SQUARE FEET
YDΔ	SY	SQUARE YARD
AC	AC	ACRES
YD √	CY	CUBIC YARD
GAL	GAL	GALLON
≤B_	LB	POUND
TON	TON	TON

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:			PIN	BRIDGES	CULVERTS
DESCRIPTION OF ALTERATIONS:					
	COUNTY: ULSTER	NYSDOT REGION: 8			
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING I AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED P DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEI	ROFESSIONAL IS ALTERED,	THE ALTERING ENGINEER, ARCHITECT, LAND	SCAPÉ ARCHITECT, OR LAND SU	OR LAND SURVEY RVEYOR SHALL S	OR, TO ALTER TAMP THE

BRIDGES CULVERTS ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

INDEX

CONTRACT NUMBER

DRAWING NO. IND-01 SHEET NO. 2



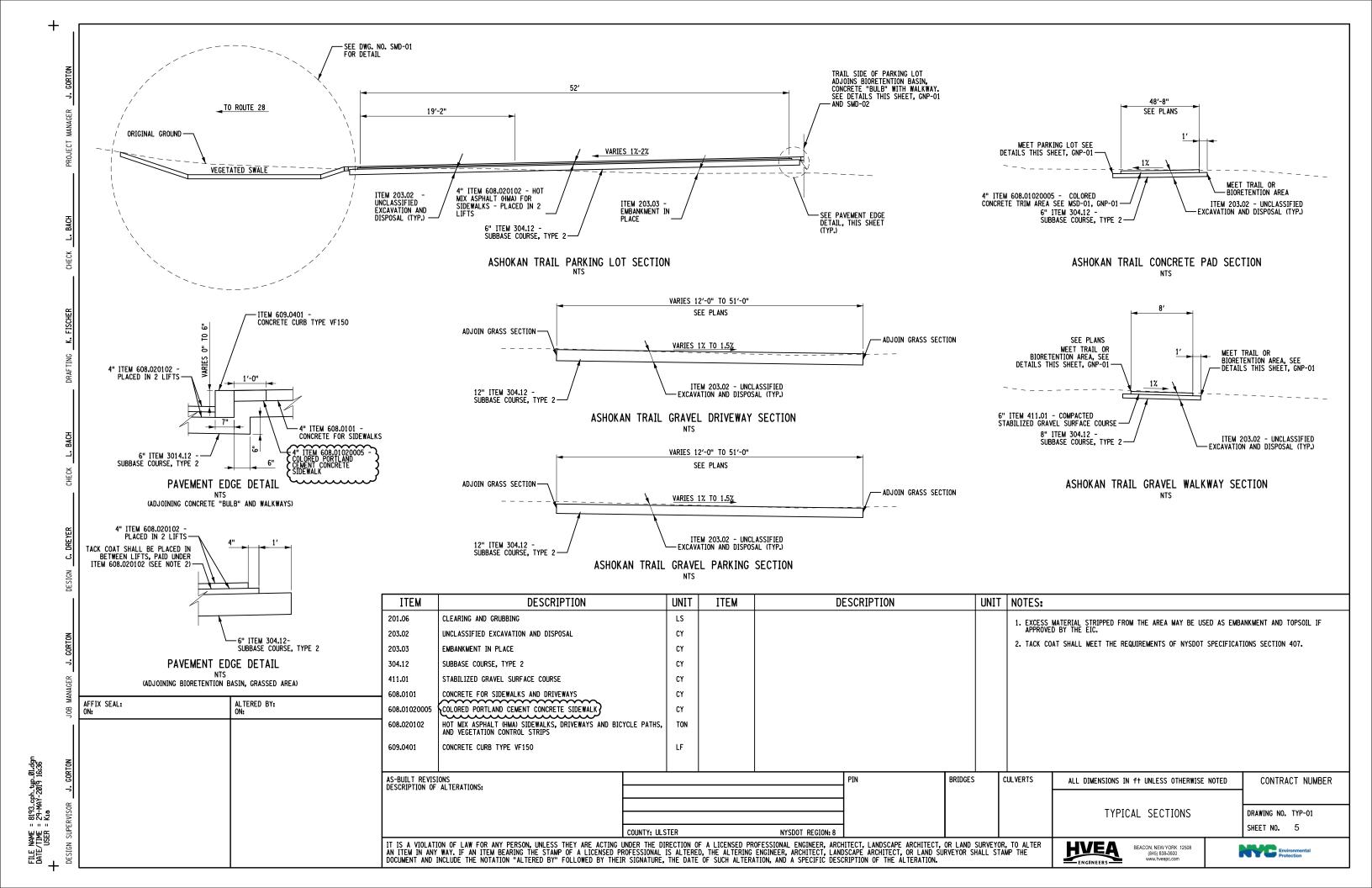


BEACON, NEW YORK 12508 (845) 838-3600 www.hveapc.com

ALIGNMENT DRAINAGE ITS ROW MAPPING SIGNS UTILITIES CELL NAME NAME CELL NAME CELL NAME CELL NAME CELL NAME DESCRIPTION DESCRIPTION CELL DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION (E) \oplus ACC CENTER OF CURVATURE -∰- \oplus - **UEB** ELECTRIC, BOX + IANT P MDL1P DEED LINE, TYPE 1 **ACOGO** \mathbb{A} 2 S_P SINGLE POST, PROPOSED Ε ELECTRIC, METER IASCTS ACCOU. SPEED/COUNT SNSR.S MDL2P DEED LINE, TYPE 2 UEM DS STRUCTURE. RECTANGULAR ACS CURVE TO SPIRAL P 3 SB_P BACK TO BACK, PROPOSED Œ ELECTRIC, MANHOLE **TCABPAD** CABINET & PAG MDI 3F DEED LINE. TYPE 3 DSI STRUCTURE, INVERT ADPI_F DETOUR, POINT OF INTERSECT. (4) UEPT ELECTRIC, POLE, TRANS. CCTV SITE DEED LINE. TYPE 4 SDEL ICCTV MDL4P DELINEATORS DSM STRUCTURE, MANHOLE CDPD(DETOUR, POINT ON LINE (5) TCDPD CDPD TRANSCEIVER MDI 5F DEED LINE, TYPE 5 SPM PARKING METER GAS. METER TRUCTURE, MANHOLE, DSMTXX_F AEQN **EQUATION** *(0) ICELLT CELL PHONE TOWER MEEP EASEMENT, EXISTING RFMSRM REFERENCE MARKERS **©** UGMH GAS. MANHOLE 'XX" = 48, 60, 72, 9 **AEQNAH** EQUATION AHEAD **ICJB** CONDUIT JACK OR BORING MEPAP. EASEMENT, PERM., APPROX. SRSC3 SHLD, CTY, 123 DIG UGLM GAS, LINE MARKER DSR STRUCTURE, ROUND B) **AE QNBK FOLIATION BACK** \boxtimes ICNTLCAE CONTROLLER CABINET 0 MEPP_I EASEMENT, PERM., BACK LINE SRSC4 SHLD, CTY, 4 DIG. FP UGP GAS/FUEL PUMP TRUCTURE, RECT., WITH CURB ST"X"CB TYPE "X"
"X" = F, G, N, O, P, R 0 **AEVT EVENT STATION** \mathbb{C} 0 Ω SRSCT2 SHLD, CTY TOUR, 1-2 DIG. **ICPB** COMMUNICATION PULL BOX MEPSP_ EASEMENT, PERM., SHAPE UGV GAS. VALVE APC POINT OF CURVATURE 狐 SRSCT4 SHLD, CTY TOUR, 3-4 DIG. UGVT -∞ ICTD CONDUIT TURNING DOWN MFAP_I (XI) FEE ACQUISITION, APPROX STRUCTURE, RECT., TYPE "X" POINT OF COMPOUND CURVATURE "X" = I, K, L, M, O, P, U \bigcirc APCC SRSI -⊙ ICTU CONDUIT TURNING UP 0 MFP_P FEE ACQUISITION, BACK LINE SHLD. INTERSTATE ULP LIGHTING. POLE POINT OF INTERSECTION)¢(0 \Box SRSN2 SHLD, NATIONAL, 2 DIG III PM LIGHTING. POLE. MEDIAN ICVTRT COMM. VEH. ROAD TRANSCEIVER MESP_ FEE ACQUISITION, SHAPE ENVIRONMENTAL **APOB** POINT OF BEGINNING Δ **IDEFAULT** DEFAULT MHRAP HIGHWAY BNDRY., APPROX. SRSN3 SHLD. NATIONAL. 3 DIG ULPP LIGHTING, POLE, PED CULV EIOP_F STR., INLET, OUTLET PROT. ΕZ APOC POINT OF CURVATURE **IEZR** MHBCP SRSS2 SHLD, STATE, 2 DIG. LIMEC MISC. FILLER CAP E-ZPASS READER HISTORICAL, BLDG, CORNERS Δ AP0E POINT OF FND EZ-T \bigcirc SRSS3 SHLD, STATE, 3 DIG. **-**Ø− OIL, LINE MARKER **IEZTR** TRANSMITTAL READER (GB) FIPGR I STR., INLET PROT., GRAVEL BAG AP0L POINT ON LINE (0) SRSS4 **IFOXCAB** FIBER OPTIC X-CONNECT CABINET MJCP PT., JURIS. CITY SHLD. STATE, 4 DIG POLE. WITH UTILIT (H/S) STR., INLET PROT., HAY/STRAW **APOS** POINT ON SPIRAL PT., BUILDING CORNER $\left(\cdot \right)$ UPD POLE, DEAD (NO UTILITY) IFUSSPI FUSION SPLICE TRAFFIC CONTROL APOT POINT ON TANGENT HAR ADVISORY SIGN **(** MPCC POLE, WITH LIGHT THARADV PT., CROSS CUT UPL EIPP_F STR., INLET PROT., PREFAB (PRFB) TCBJ BOX. JUNCTION POINT ON VERTICAL CURVE (S) THARST MPDH PT., DRILL HOLE SANITARY SEWER MANHOLE BOX, PULL BOX EIPSF_I STR., INLET PROT., SILT FENCE **APOVT** POINT ON VERTICAL TANGENT P Δ LOAD CENTER PT., FENCE LOCATION UTB TELEPHONE, BOOTH TCBS BOX. SPLICE APORC POINT ON REVERSE CURVE IMECSPL MECHANICAL SPLICE 0 MPIP PT., IRON PIPE UTLM TELEPHONE, LINE MARKER RISER, CONCRETE BOX TCMC MICROCOMPUTER CABINET 0 **APT** POINT OF TANGENCY PM) \odot **(T)** TELEPHONE, MANHOLE IMSCS PORT. SPEED & COUNT SENSOR ETRS_F TRAP. SEDIMENT TCPF PED POLE (B) APVC POINT OF VERTICAL CURVATURE м Г IMSCTS MICRO SPEED & COUNT SENSOR PT., MONUMENT **-**Ĉ> UTVLN CABLE TV. LINE MARKER EWFG WETLAND FLAG TCSH SIGNAL HEADS APVCC POINT OF VERT, CMPND CURVE \blacksquare M MICROWAVE TRANSCEIVE MPMM PT., MONUMENT, MISC. \mathbb{C} CABLE TV, PULL BOX \odot TCSP SIGNAL POLE GEOTECHNICAL POINT OF VERT. INTERSECTION APVI Ø \Box VMS TOVHVMS PERM. OVERHEAD VMS MPN UUB PT., NATI LINKNOWN, BOX TRAFFIC WORK ZONE • DRILL HOLE POINT OF VERT. REVERSE CURVE PA] PT.. RAILROAD SPIKE \boxtimes A **IPASCS** PORT, ACCOU, SPD & CNT, SENSOR MPRS UUJB UNKNOWN, JUNCTION BOX POINT OF VERTICAL TANGENCY \otimes **IPEDS** PEDESTRIAN SIGNAL HEAD 無 MPSP PT., SPIKE TW7AP P ARROW PANEL UUMH UNKNOWN, MANHOLE LANDSCAPE ASC SPIRAL TO CURVE \Diamond PT., STAKE **IPSS** PAVEMENT SURFACE SENSOR **MPST** ARROW PANEL, CAUTION MODE **UUPB** UNKNOWN, PULL BOX FLEVATION, SPOT LELS **ASPI** SPIRAL POINT OF INTERSECTION PVMS ⊗ PT., TREE W/ WIRE ••• TWZAPT_P ARROW PANEL, TRAILER OR SUPPORT UUVL UNKNOWN, VALVE I FP FLAG POLE ASTS SPIRAL TO SPIRAL PT., WALL LOCATION BARRICADE (TYPE III) ∞ HUVT UNKNOWN, VENT LMB MATEROX \otimes AST SPIRAL TO TANGENT CHANGEABLE MESSAGE SIGN (PVMS) UUW IRWIS RDWY WEATHER INFO. SENSOR 0 UNKNOWN. WELL ROW ACQUISITION LPB PAPER BOX TANGENT TO SPIRAL 淤 ATS Q ISP SOLAR PANEL TWZFLG_F UWFH WATER, FIRE HYDRANT \odot LPS1 POST. SINGLE FEE ACQUISITION **AVFVT** VERTICAL EVENT POINT (3) TW7FT P ISS1 SPREAD SPECT. TRANSCEIVER UWM WATER, METER (II) LRB ROCK, BOULDER IMPACT ATTENUATOR VERTICAL HIGH POINT AVHIGH ITDB TELEPHONE DEMARCATION BLK TWZIA_P UWMH WATER, MANHOLE MEPS_P_T EASEMENT, PERMANENT LSHC SHRUB, CONTEEROUS VERTICAL LOW POINT AVLOW SUBSURFACE TEMP. PROBE TWZLUM_ LUMINAIRE (TEMPORARY HW∖ WATER, VALVE LSHD SHRUB, DECIDUOUS METS_P_T EASEMENT, TEMPORARY XXC ➾ TWZSDT_P SYMBOL, DIRECTION OF TRAFFIC **W** UWW IVTRT VEHICLE TO RDWY TRANSCEIVER BRIDGE LTC TREE, CONIFEROUS SYMBOL, DIRECTION OF TEMPORARY W/M IWIMD WEIGHT IN MOTION DETECTOR OCCUPANCY, TEMPORARY BSC BRIDGE. SCUPPER LTD TREE, DECIDUOUS RAFFIC DETOUR 1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED) TWZSGN_ SIGN (TEMPORARY IWVR WIRELESS VIDEO REPEATER \Diamond LTS TREE. STUMP FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.). MFS_P_T FEE ACQUISITION W/O ACCESS SIGNAL, TRAFFIC OR PEDESTRIAN \mathbb{V} TWVRC WIRFLESS VIDEO RECEIVER TWZSIG_P TEMPORARY) Ø LTW TREE, WELL OR WALL 3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES. :\\\\ മ BASELINE, POINT TWVT: WIRELESS VIDEO TRANSMITTER TW7WI F WARNING LIGHT ROADWAY LUKP UNKNOWN POINT \odot CRPOL BASELINE, POINT ON LINE TWZWV_P WORK VEHICLE 4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE DRAWINGS). \Diamond ELEVATION, SPOT WORK VEHICLE WITH TRUCK **CBSP** BASELINE, SPUR POINT TWZWVA_P \boxtimes RGA GUIDE RAIL, ANCHOR **CBTP** BASELINE, TIE POINT 5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS. \bigcirc RGE GUIDE POST, SINGLE **CPBM** POINT, HORIZ, PHOTOGRAMMETRY 6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES. POINT, SURVEY MARKER, PERM. CPSM ∅ AS-BUILT REVISIONS BRIDGES **CUL VERTS** ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONTRACT NUMBER CPSV POINT. VERT. PHOTOGRAMMETRY DESCRIPTION OF ALTERATIONS: LEGEND DRAWING NO. LEG-02 SHEET NO. IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. BEACON, NEW YORK 12508

(845) 838-3600 www.hveapc.com





CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING WITH CURRENT ADDITIONS AND MODIFICATIONS.

DESCRIPTION OF ALTERATIONS:

- THE CONTRACTOR IS TO VISIT THE SITE BEFORE BIDDING TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO JUDGE FOR HIMSELF THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR BECAUSE OF THE CONTRACTOR'S FAILURE TO INCLUDE IN HIS BID ALL ITEMS AND MATERIALS WHICH HE IS REQUIRED TO FURNISH IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR IS ADVISED THAT HE MUST HAVE IN HIS POSSESSION, A SET OF CONTRACT PLANS/PROPOSAL FOR IDENTIFICATION PURPOSES WHEN CONDUCTING THIS SITE
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT DUE TO THE NATURE OF CONSTRUCTION PROJECTS, THE EXACT EXTENT OF CONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE WORK IN ACCORDANCE WITH THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH DETAILS AND WORK. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH
- 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 GENERAL REFERENCE UNLY. HET HAVE BEEN LAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS AND LIMITED FIELD SURVEY 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 FICE 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
- 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 PAID IN ACCORDANCE WITH SECTION 109-05 OF THE SPECIFICATIONS.
- 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, 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 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 BE DAMAGE TO THE EXISTING FACILITY WHICH IS NOT PART OF THE INTENDED WORK SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT COST TO THE COUNTY, AND TO THE SATISFACTION
- THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY THE ENGINEER. ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES NOT SPECIFICALLY CALLED OUT TO BE REMOVED ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR WILL PROTECT EXISTING PROPERTY LINE ORNAMENTATION, ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER SUPERVISION OF A NEW YORK STATE

- 9. LOCATION OF PUBLIC AND/OR PRIVATE UTILITIES, INDICATED AS EXISTING AND/OR TO BE CONSTRUCTED AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY, THEIR EXACT LOCATION 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 OPERATIONS AND TAKE THE NECESSARY PRECAUTIONS TO PREVENT INTERFERENCE WITH OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF
- 10. IN THE EVENT THAT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, HE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CEASE HIS WORK OPERATION UNTIL SERVICE IS RESTORED.
- 11. THE METHOD OF EXCAVATION AND/OR DEMOLITION IN THE IMMEDIATE VICINITY OF UNDERGROUND UTILITIES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. HAND
- 12. THE CONTRACTOR SHALL PROTECT HIS WORKERS AT ALL TIMES IN CONFORMANCE WITH APPLICABLE OSHA REGULATIONS.
- 13. 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 PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES USED HEREIN.
- 14. THE HORIZONTAL COORDINATE SYSTEM IS BASED ON NEW YORK STATE PLANE.
- 15a.ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF- WAY (ROW) IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS. 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 THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIER.
- 15b. IF THE CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-OF-WAY WHEN THE CONTRACTOR CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTACT THE PROJECT ENGINEER FOR DEFINITIVE BOUNDARY DETERMINATIONS BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS (STANDARD SPECIFICATIONS SECTIONS 105-10
- 15c. IN ACCORDANCE WITH SECTION 107-10 OF THE STANDARD SPECIFICATIONS, RELEASES FOR ANY NON-ESSENTIAL CONTRACT WORK OUTSIDE OF THE EXISTING RIGHTS-OF-WAY, INCLUDING PLANTINGS, LANDSCAPING OR DRIVEWAY ENHANCEMENT, WILL BE PROVIDED BY THE PROJECT ENGINEER AND IN NO INSTANCE ARE TO BE SECURED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT INVADE UPON PRIVATE PROPERTIES, LANDS OR BUILDINGS OUTSIDE OF THE RIGHTS-OF-WAY FOR ANY REASON WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE PROPERTY OWNER (STANDARD SPECIFICATIONS SECTIONS 105-15,
- 15d. THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORILY REPAIRED OR ITEMS REPLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08 AND 107-13).
- 16. ANY SILT FENCE AND VEGETATION PROTECTION BARRIER SHOWN BEYOND THE HIGHWAY BOUNDARY IS FOR PLAN CLARITY ONLY, ALL SILT FENCE AND VEGETATION PROTECTION BARRIER WILL BE PLACED WITHIN THE HIGHWAY BOUNDARY.
- 17. ALL EXCESS EXCAVATED MATERIAL FROM WITHIN THE PROJECT RIGHT-OF-WAY IS DEEMED A REGULATED MATERIAL AS PER THE NYCDEP AND SHALL NOT BE REMOVED FROM THE PROJECT RIGHT-OF-WAY. THIS MATERIAL IS NOT CONSIDERED HAZARDOUS, AND SPECIAL

SUITABLE LOCATIONS CAN BE USED AS EMBANKMENT IN PLACE, LOCATIONS FOR DISPOSING THE EXCESS EXCAVATED MATERIAL NOT USED AS FILL SHALL BE APPROVED BY THE

THE COST OF TRANSPORTING THIS MATERIAL TO SUITABLE DISPOSAL SITES AS DIRECTED BY THE ENGINEER SHALL BE INCLUDED WITHIN THE BID PRICE FOR ITEM 203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL. NO ADDITIONAL PAYMENTS FOR EXCAVATING, TRANSPORTING, STOCKPILING OR PROCESSING THE MATERIAL SHALL BE MADE. NO SPECIAL TREATMENT OF THE SOIL WILL BE NECESSARY OTHER THAN THE REQUIREMENTS OF SECTION 100.00 OF THE NEXDOT STANDARD SPECIAL STREAMS OF THE RESULT OF THE SOIL WILL BE NECESSARY.

BASED ON FIELD OBSERVATIONS, THERE MAY BE RAILROAD TIES LOCATED THROUGHOUT THE LENGTH OF THIS PROJECT. WOOD TREATED WITH CREOSOTE, SUCH AS RAILROAD TIES, MUST BE DISPOSED OF AS HOUSEHOLD WASTE, OR AS CONSTRUCTION AND DEMOLITION (C&D) DEBRIS IN A PERMITTED C&D DEBRIS LANDFILL, OR BURNED IN A PERMITTED DEBRIS LANDFILL, OR BURNED IN A PERMITTED SHALL BE REMOVED FROM THE SITE AND WILL BE PAID FOR UNDER ITEM 203.02. THE COST OF TRANSPORTING THIS MATERIAL TO SUITABLE DISPOSAL SITES SHALL BE INCLUDED WITHIN THE BID PRICE FOR TIEM 203.02 NO ADDITIONAL PAYMENT FOR EYEAVAITING THE BID PRICE FOR ITEM 203.02. NO ADDITIONAL PAYMENT FOR EXCAVATING, TRANSPORTING, STOCKPILING OR PROCESSING THE MATERIAL SHALL BE MADE.

18. ENDANGERED SPECIES NOTES:

TREE PROTECTION FOR ENDANGERED SPECIES

THE AREA BENEATH THE DRIP LINE OF ALL TREES WITH A TRUNK DIAMETER OF 3 INCHES OR GREATER LOCATED OUTSIDE OF THE PROJECT CLEARING LIMITS OR IN PROXIMITY TO STAGING AND STOCKPILING AREAS SHALL NOT BE DISTURBED. DISTURBANCE INCLUDES REMOVING TREES, STOCKPILING MATERIAL, STORING EQUIPMENT, OR DRIVING AND PARKING VEHICLES BENEATH THE DRIP LINE OF TREES. ADDITIONAL TREES REQUIRING PROTECTION MAY BE DESIGNATED BY THE ENGINEER-IN-CHARGE (EIC). THE CONTRACTOR SHALL SUBMIT A PLAN TO THE EIC FOR APPROVAL SHOWING THE PROPOSED STAGING, STORAGE AND STOCKPILE AREAS FOR EACH SITE PRIOR TO PLACEMENT OF ANY EQUIPMENT OR MATERIALS AT THE SUBJECT AREA.

19. TREE REMOVAL PROHIBITION

REMOVAL OF TREES NOT SPECIFIED FOR REMOVAL WITH A TRUNK DIAMETER OF 3 INCHES OR GREATER IS PROHIBITED, UNLESS COORDINATED AND APPROVED BY THE

20. TIME OF YEAR CUTTING RESTRICTIONS FOR INDIANA BAT AND NORTHERN LONG-EARED

IN ORDER TO PREVENT ANY DIRECT TAKINGS OF INDIANA BAT (MYOTIS SODALIS), A FEDERAL AND STATE LISTED ENDANGERED SPECIES AND NORTHERN LONG-EARED BAT (MYOTIS SEPTENTRIONALIS), A FEDERAL AND STATE LISTED THREATENED SPECIES, THE CONTRACTOR'S ATTENTION IS HEREBY DIRECTED TO THE FACT THAT TREE CUTTING SHALL ONLY BE PERFORMED FROM NOVEMBER 1 THROUGH MARCH 31. TIME OF YEAR TREE CUTTING RESTRICTIONS APPLY TO TREES THAT ARE 3 INCHES OR GREATER DIAMETER AT BREAST HEIGHT (DBH).

21. MIGRATORY BIRD PROTECTION NOTE UNDER THE MIGRATORY BIRD TREATY ACT (MBTA), IT IS UNLAWFUL BY ANY MEANS OR MANNER TO INTENTIONALLY TAKE, CAPTURE, OR KILL ANY MIGRATORY BIRD UNLESS A PERMIT IS FIRST SECURED. VIOLATIONS OF MBTA REGULATIONS ARE SUBJECT TO PENALTIES OF UP TO \$15,000 AND SIX MONTHS

PROTECTED MIGRATORY BIRDS INCLUDE ALL WATERFOWL, HERONS, HAWKS, OWLS, EAGLES AND SONGBIRDS, INCLUDING SWALLOWS ROBINS, AND EASTERN PHOEBES. THEIR FEATHERS, NESTS, AND EGGS ARE ALSO PROTECTED UNDER THE MBTA

EXEMPT FROM THE MBTA ARE ROCK DOVES (DOMESTIC PIGEONS), HOUSE SPARROWS (ENGLISH SPARROWS), EUROPEAN STARLINGS, AND MONK PARAKEETS. NON-NATIVE HUMAN-INTRODUCED BIRD SPECIES ARE NOT PROTECTED BY MBTA, ALTHOUGH THESE SPECIES ARE NOT PROTECTED UNDER THE MBTA, THEY SHOULD STILL BE TREATED AS HUMANELY AS POSSIBLE. IF ANY BIRD NESTS ARE ENCOUNTERED PRIOR TO OR DURING WORK CONTACT THE PROCESSES. WORK CONTACT THE ENGINEER-IN-CHARGE (EIC) IMMEDIATELY.

AREAS SCHEDULED FOR WORK FROM APRIL 15 TO AUGUST 15 (THE PERIOD IN WHICH NESTS ARE TYPICALLY FOUND WITH EGGS OR UNFLEDGED CHICKS) SHALL BE INSPECTED FOR BIRD NESTING ACTIVITY PRIOR TO COMMENCING ANY WORK ACTIVITY. IF THE NEST(S) IS DETERMINED TO BE OCCUPIED, AVOID DISTURBING, DAMAGING OR REMOVING THE NEST UNTIL THE YOUNG ARE FLEDGED (LEAVE THE NEST). AT NO TIME SHOULD THE NESTS OF HAWKS, FALCONS OR EAGLES BE DESTROYED, AS THESE SPECIES RETURN TO THE SAME NEST SITE YEAR AFTER YEAR AND REUSE THE SAME NEST AFTER FLEDGING OCCURS (OF SPECIES OTHER THAN HAWKS, FALCONS OR EAGLES), AND ALL NESTING ACTIVITY IS BELIEVED TO HAVE CEASED (TYPICALLY INDICATED BY ADULT BIRDS MOVING TO AND FROM THE NEST), THEN THE NEST(S) CAN BE PRESUMED TO BE UNOCCUPIED AND CAN BE REMOVED SO THAT WORK MAY PROCEED. UNOCCUPIED NEST(S) SHOULD BE REMOVED AS QUICKLY AS POSSIBLE TO PREVENT BIRDS FROM BEGINNING A SHOULD BE REMOVED AS QUICKLY AS POSSIBLE TO PREVENT BIRDS FROM BEGINNING A SECOND NEST BROOD AT THE SAME LOCATION.

FROM AUGUST 16 TO APRIL 14 NESTS CAN BE PRESUMED TO BE UNOCCUPIED AND CAN BE REMOVED AFTER CONFIRMING THAT THE NEST IS INDEED INACTIVE.

IF THERE ARE ANY QUESTIONS REGARDING HOW TO PROCEED WITH NESTING MIGRATORY BIRDS, IMMEDIATELY CONTACT THE EIC. NO NESTS OF PROTECTED MIGRATORY BIRDS SHALL BE REMOVED OR DISTURBED IN ANY WAY WITHOUT PERMISSION FROM THE EIC.

22. THE CONTRACTOR SHALL NOTE THAT THERE IS AN ACTIVE CONTRACT TO CONSTRUCT THE ASHOKAN TRAIL FROM NYS ROUTE 28A TO BASIN ROAD OVERPASS. WHILE IT IS INTENDED FOR A MAJORITY OF THE WORK TO BE COMPLETE PRIOR TO THE BEGINNING OF THIS CONTRACT, THE POSSIBILITY EXISTS THAT WORK MAY OVERLAP. THE OF THIS CONTRACT, THE POSSIBLE THE WORK EFFORTS WITH THE TRAIL CONTRACTOR TO NOT DISTURB THE TRAIL CONTRACTOR TO NOT DISTURB THE TRAIL PROJECT AND BE PREPARED TO RELOCATE HIS/HER OPERATIONS TO ALLOW THE TRAIL CONTRACTOR TO COMPLETE THEIR WORK TO THE MAXIMUM EXTENT POSSIBLE. THE TRAILHEAD SITE IS CURRENTLY BEING UTILIZED AS A STAGING AREA, AND ACTUAL FIELD CONDITIONS MAY VARY FROM THE PLANS. THE CONTRACTOR SHALL NOT HAVE CAUSE FOR ANY DELAY CLAIMS AS A RESULT OF FAILURE TO PROPERLY COORDINATE WITH THE TRAIL CONTRACTOR.

PLEASE NOTE THAT ANY CHANGES TO THE APPROVED SWPPP SHALL BE SUBMITTED TO THE D.E.P. FOR REVIEW AFTER THE ENGINEER HAS ACCEPTED TO ALL THE THE STATE OF THE STATE IT AND PRIOR TO CONSTRUCTION.

UTILITY QUALITY LEVEL DESCRIPTION:
QUALITY LEVEL A - THE HIGHEST DEGREE OF ACCURACY; THE UTILITY
INFORMATION ON THE CONTRACT PLANS HAS BEEN LOCATED AND
VERIFIED BY EXCAVATION, WHEN APPROPRIATE. (SHOWN AS QLA)
QUALITY LEVEL B - SUBSURFACE GEOPHYSICAL LOCATING TECHNIQUES

(IE. UNDERGROUND CAMERAS, RADAR, SONAR, TONE OUTS, ETC.) AND EXISTING RECORD PLANS HAVE BEEN USED TO LOCATE UTILITIES. NO EXCAVATIONS WERE PERFORMED. (SHOWN AS QLB) QUALITY LEVEL C - RECORD INFORMATION PROVIDED BY UTILITY OWNERS WAS PLOTTED ON THE CONTRACT PLANS. DEPTHS WERE NOT FIELD VERFIELD. PHYSICAL SURFACE FEATURES LIKE MANHOLES, VALVE BOXES, AND HYDRANTS HAVE BEEN FIELD LOCATED.

SHOWN AS QLC)
QUALITY LEVEL D - EXISTING CITY AND UTILITY COMPANY RECORDS
WERE USED TO LOCATE SUBSURFACE UTILITIES. (SHOWN AS QLD)
THE UTILITY QUALITY LEVEL FOR THE PROJECT AREA IS D.

MANAGER			_
JOB MA	AFFIX SEAL: ON:	ALTERED BY: ON:	
CORTON			
J. G(AS-BUILT REVISIONS DESCRIPTION OF AL
SUPERVISOR			

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



CUL VERTS

BRIDGES

BEACON, NEW YORK 12508 (845) 838-3600 www.hveapc.com

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

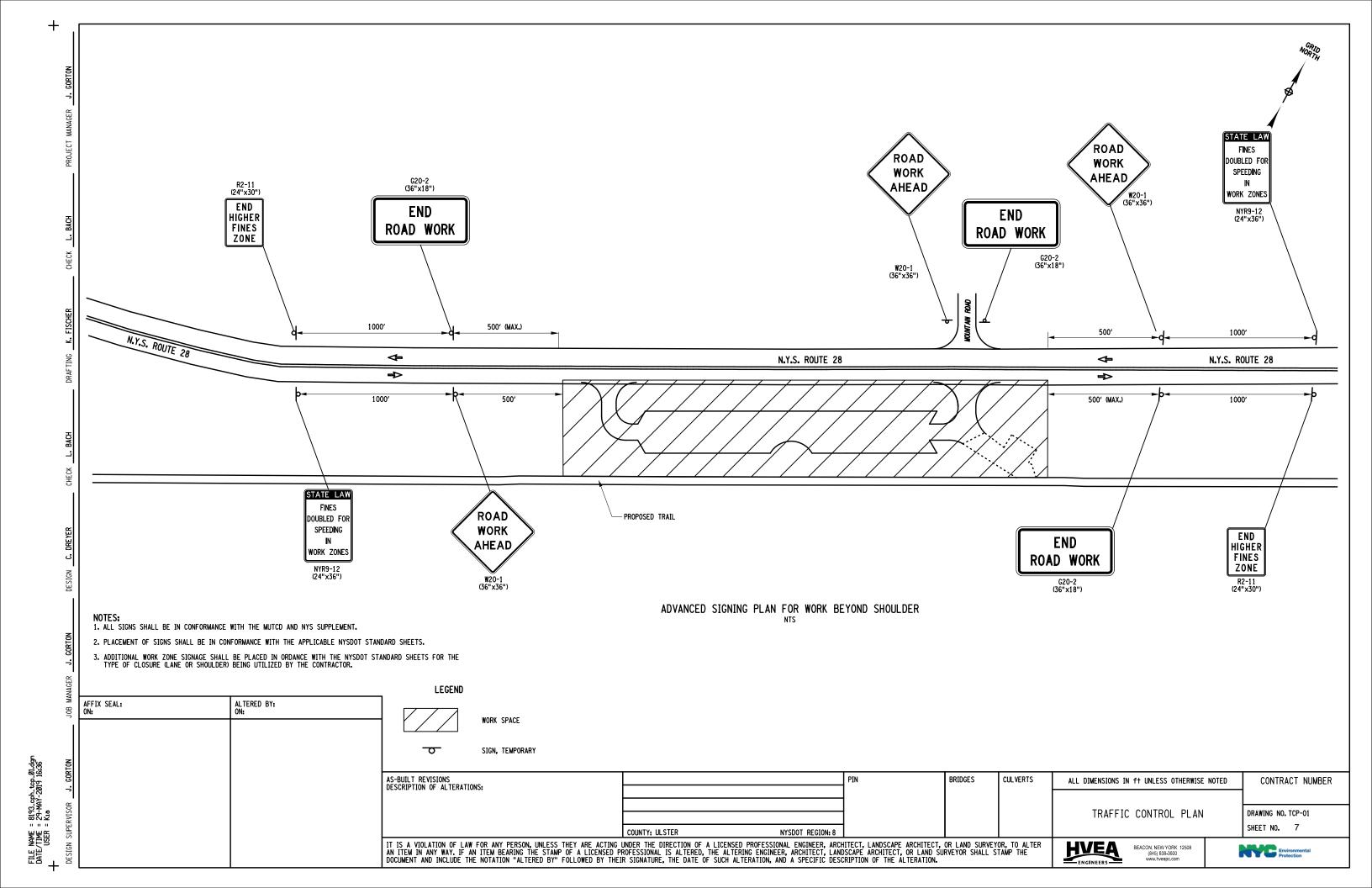
GENERAL NOTES

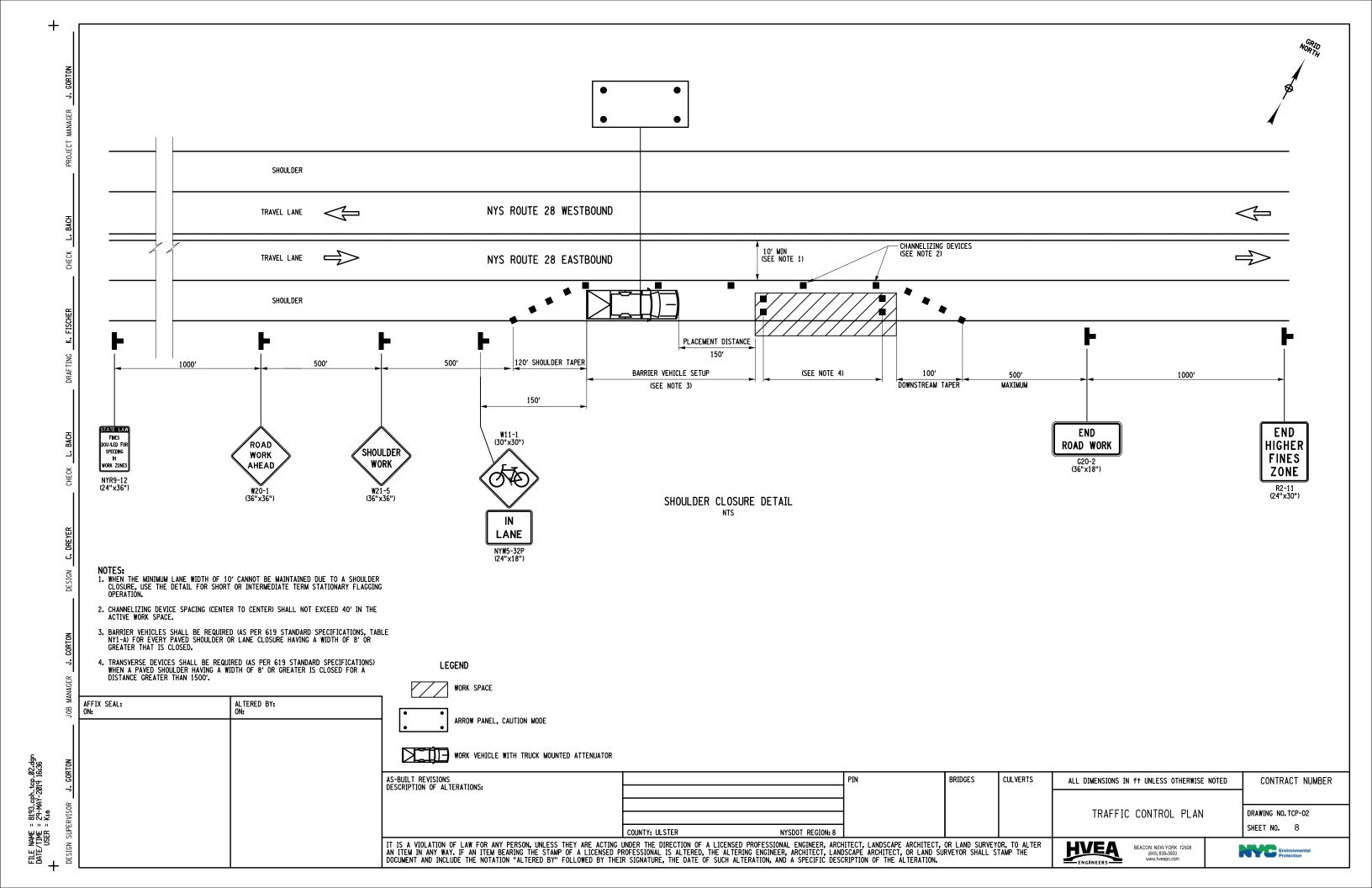


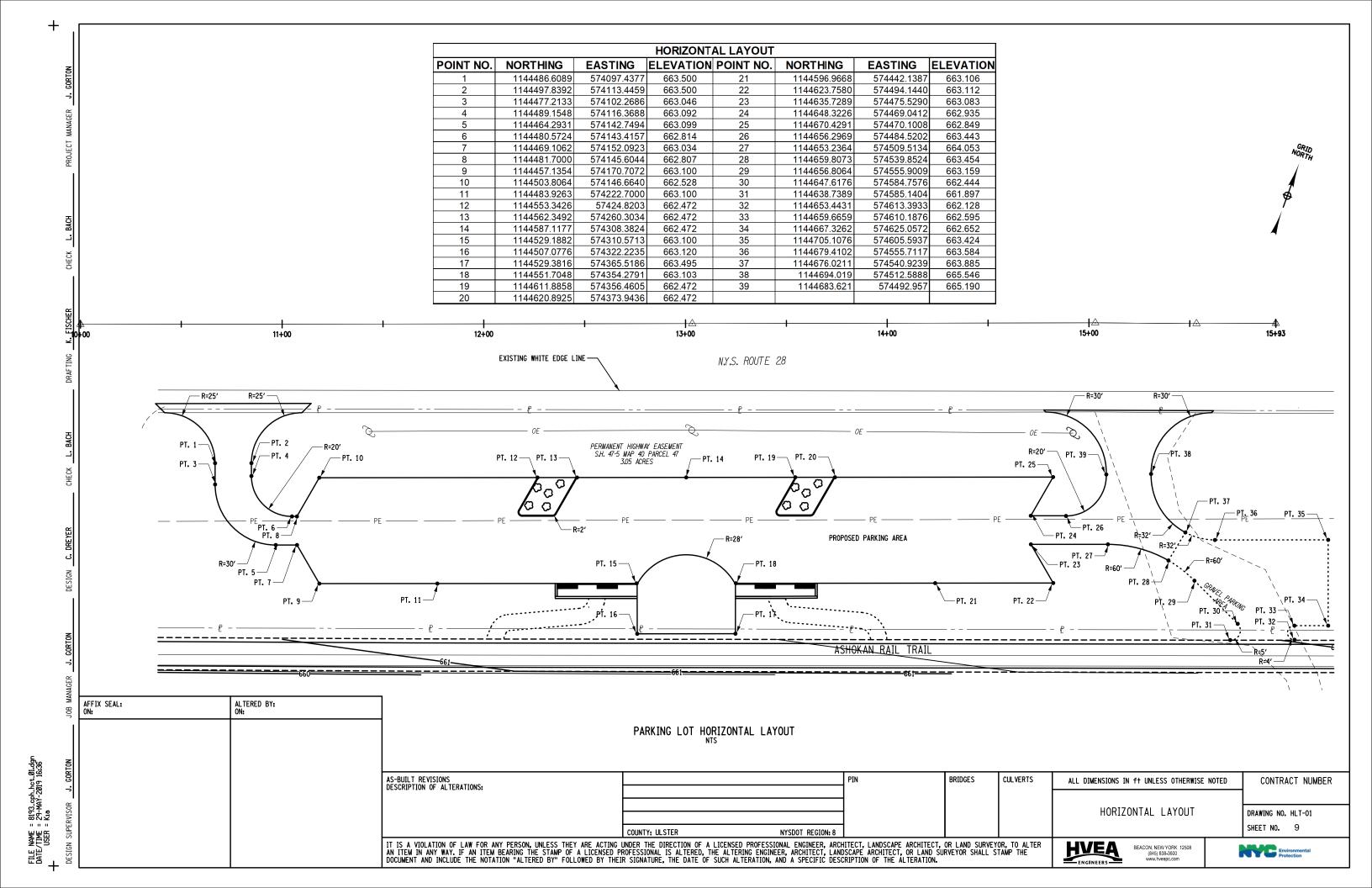
DRAWING NO. GNN-01

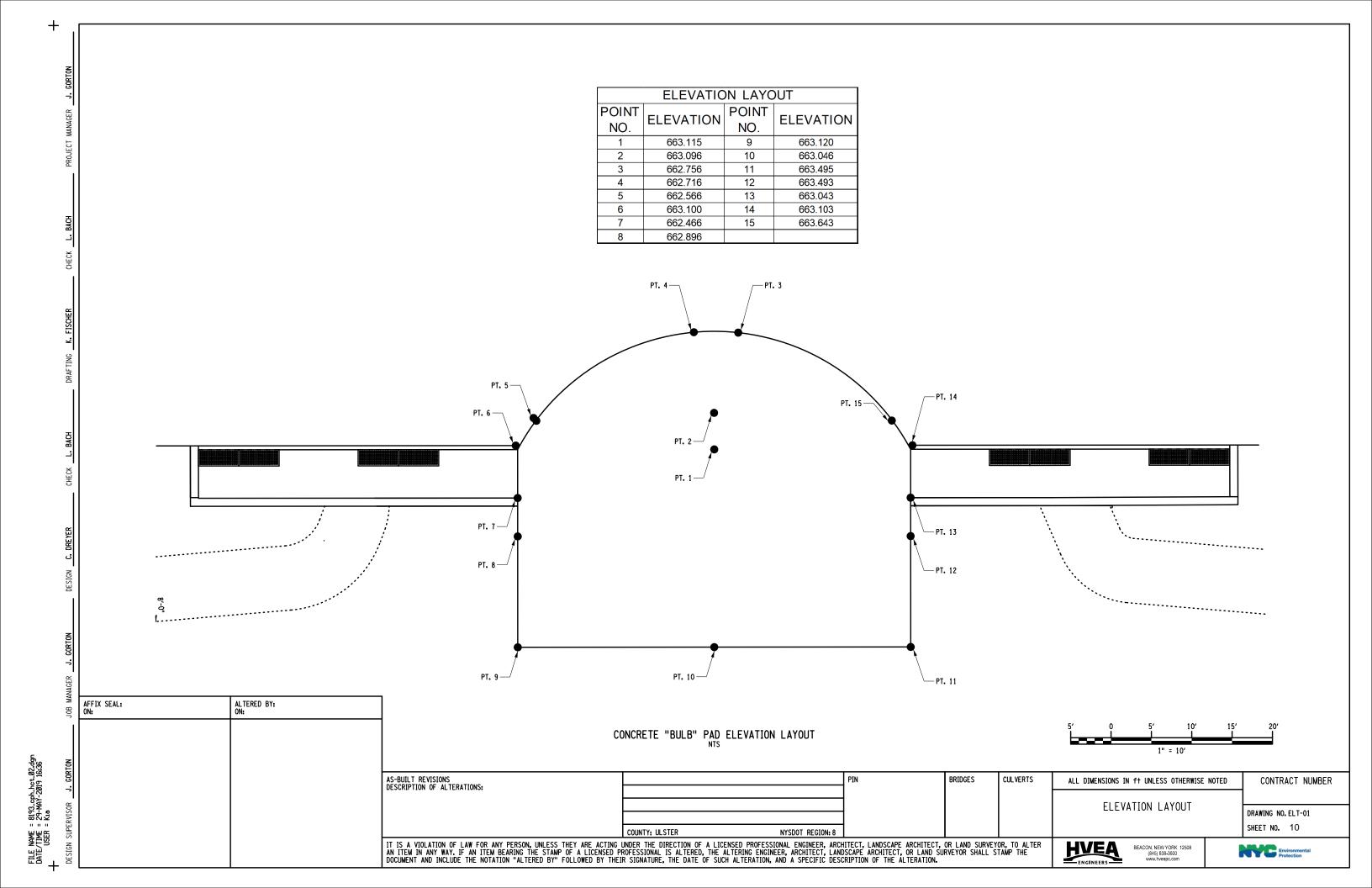
CONTRACT NUMBER

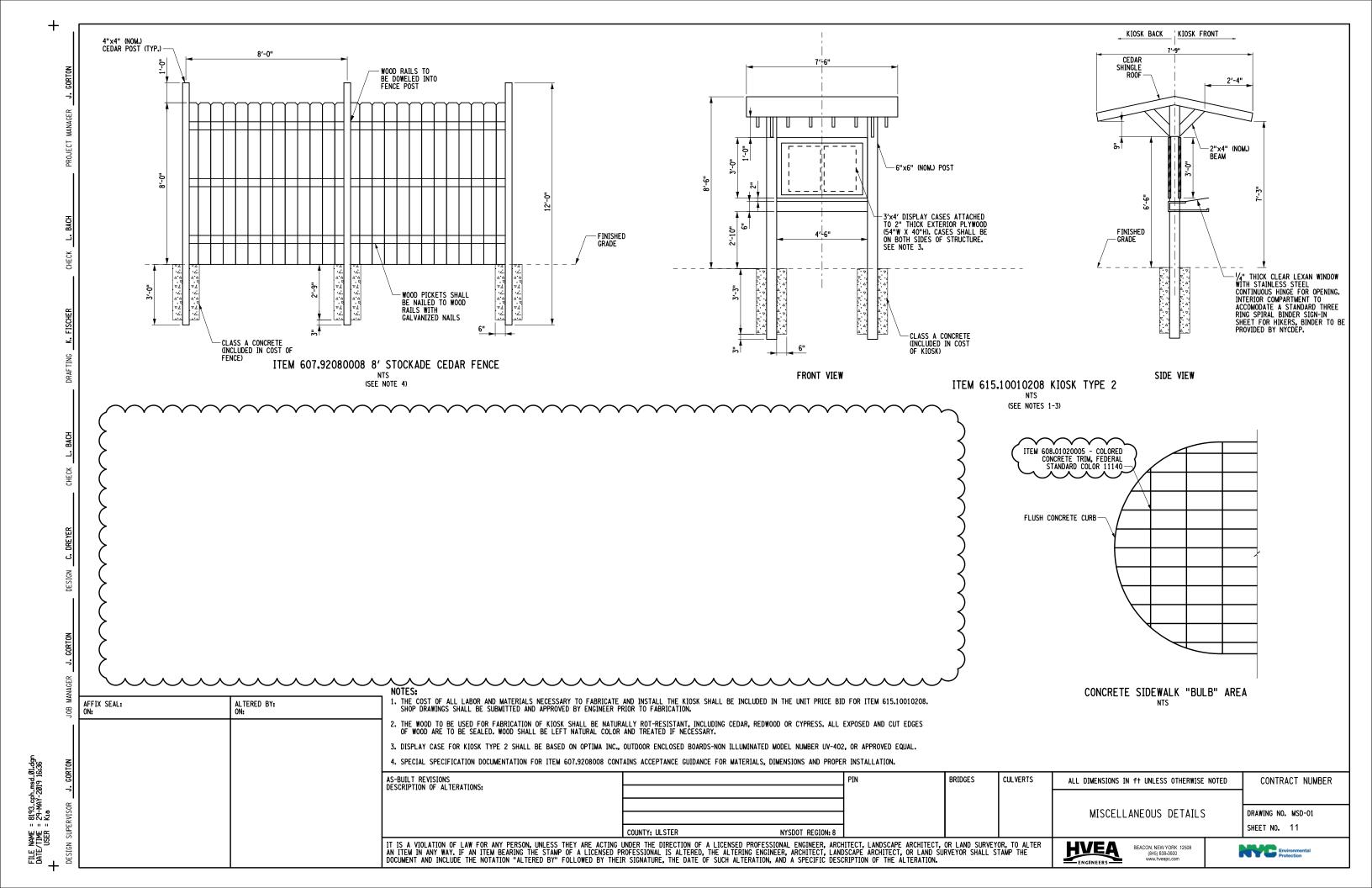
DESIGN

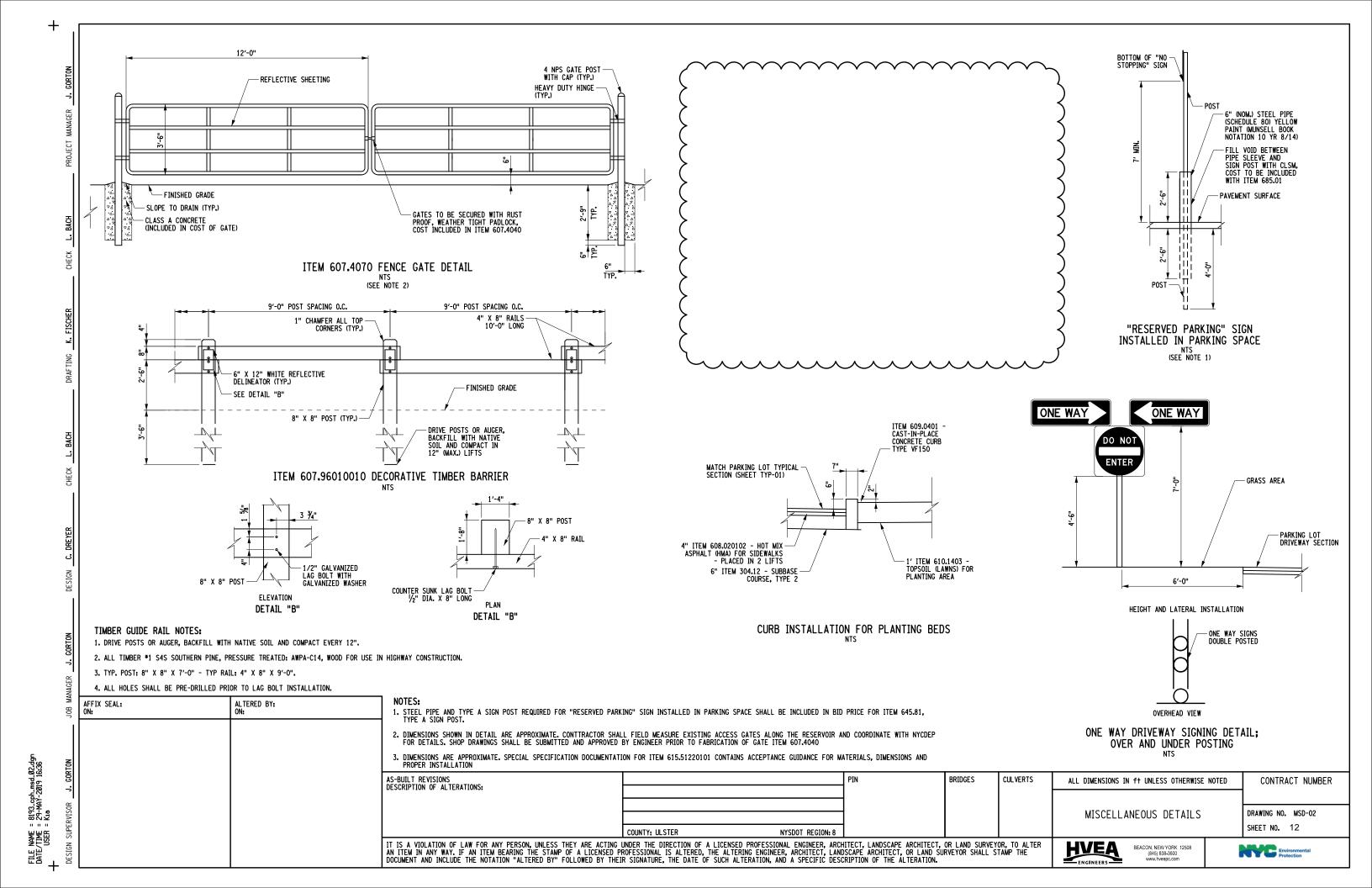












- TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AS PER DETAILS AND SPECIFICATIONS. THE COST OF MAINTAINING AND REMOVING TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INCLUDED IN THE BID PRICE OF THE ITEM USED. IN ACCORDANCE WITH SECTION 209-3.01A, THE CONTRACTOR SHALL INSPECT ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES AT A MINIMUM ONCE EVERY SEVEN (7) CALENDAR DAYS AND AFTER EACH RUNOFF EVENT TO DETERMINE IF THE PRICECULOR IS EMPOTABLED AS INTERNIA AS THE PRICECULOR IS EMPOTABLED. PRACTICE IS FUNCTIONING AS INTENDED.
- PERIMETER SEDIMENT CONTROL MEASURES AND VEGETATION PROTECTION FENCE SHALL BE PLACED PRIOR TO STARTING CLEARING AND GRUBBING OPERATIONS. THESE MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE PERMANENTLY PROTECTED WITH EROSION CONTROL MEASURES.
- 4. TEMPORARY STOCKPILES OF SOIL SHALL BE PROTECTED AS PER THE SOIL EROSION AND SEDIMENT CONTROL PLAN AND DETAILS. AT A MINIMUM TEMPORARY STOCKPILES SHALL BE RINGED WITH SILT FENCE (OR SEDIMENT FILTER LOG). STOCKPILES AND AREA OF STOCKPILES LEFT INACTIVE SHALL BE STABILIZED IN ACCORDANCE WITH EXPOSED SOIL
- ANY ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL MEASURES USED TO SUPPLEMENT THE PLANS SHALL BE PREPARED IN ACCORDANCE WITH THE TECHNICAL REQUIREMENTS CONTAINED IN THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL," LATEST EDITION. ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AS PER SECTION 107-12 OF THE STANDARD SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ALL ENVIRONMENTAL PERMITS ISSUED FOR THIS PROJECT. THESE PLANS REFLECT THE PROVISIONS AND REQUIREMENTS OF SAID PERMIT(S), PERMIT(S) WILL BE AVAILABLE FROM THE ENGINEER-IN-CHARGE (EIC)
- ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT DIRECT OR INDIRECT CONTAMINATION OF ALL WATER BODIES (INCLUDING WETLANDS) BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE LEACHATE, SLURRY OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION AND CONSTRUCTION PROCEDURES. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE OR SLURRY SHALL BE ALLOWED TO ESCAPE DIRECTLY OR INDIRECTLY INTO ANY WATER BODIES (INCLUDING WETLANDS), NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS, OR OTHER DEVICES BE ALLOWED TO ESCAPE DIRECTLY OR INDIRECTLY INTO ANY WATER BODIES (INCLUDING WETLANDS).
- 8. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE STREAM BED AND WITHIN 50' OF THE WATERS EDGE OF ALL WATER BODIES (INCLUDING WETLANDS) AND SHALL BE DISPOSED OF AWAY FROM WETLANDS, WATER COURSES, OR OTHER BODIES OF WATER
- ALL DREDGED AND EXCAVATED MATERIAL SHALL BE DISPOSED OF AND BE PROTECTED SO THAT IT CANNOT DIRECTLY OR INDIRECTLY RE-ENTER ANY WATER BODY OR WETLAND AREA. ALL DE-WATERING OPERATIONS INVOLVING TURBID WATER SHALL BE ACCOMPLISHED BY PUMPING TO THE TEMPORARY SEDIMENT BASIN, A VEGETATED AREA (NOT INCLUDING WETLANDS) OR A MANUFACTURED SEDIMENT CONTROL SYSTEM, DE-WATERING OPERATIONS OF TURBID WATER CHARLANDS DISPOSED IN DISPOSED TO ANY WATER DRODIES. TURBID WATER SHALL NOT DIRECTLY OR INDIRECTLY DISCHARGE TO ANY WATER BODIES
 (INCLUDING WETLANDS) UNLESS THE WATER BEING DISCHARGED IS AS FREE AND CLEAR OF
 SEDIMENT AS THE ADJACENT STREAM OR WATER BODY, LOCATIONS AND DESIGNS NOT
 SHOWN ON THE PLANS SHALL BE APPROVED BY THE EIC AND THE REGIONAL CONSTRUCTION
- 10. TEMPORARY CHECK DAMS SHALL BE INSTALLED IMMEDIATELY FOLLOWING DITCH EXCAVATING OPERATIONS. TEMPORARY CHECK DAMS SHALL REMAIN IN PLACE UNTIL NEW SLOPES AND DITCHES HAVE BEEN PERMANENTLY PROTECTED WITH EROSION CONTROL MEASURES. PERMANENT CHECK DAMS, AS SPECIFIED IN THE PLANS, SHALL BE INSTALLED ONLY AFTER NEW SLOPES HAVE BEEN PERMANENTLY PROTECTED WITH EROSION CONTROL MEASURES.
- 11. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT ANY POINT WHERE CONSTRUCTION EQUIPMENT WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A MAINTAINED ROADWAY.
- 12. THE WIDTH OF CLEARING FOR HAUL ROADS SHALL BE LIMITED TO 20 FT.
- 13. SLOPES CONSTRUCTED TO STEEPER THAN A 143H WILL RECEIVE ITEM 209,190201, ROLLED EROSION CONTROL PRODUCT, CLASS II TYPE B, INTERMEDIATE, UNLESS OTHERWISE SHOWN

AS-BUILT REVISIONS

DESCRIPTION OF ALTERATIONS:

STABILIZED CONSTRUCTION ENTRANCE NOTE:

A QUANTITY FOR STABILIZED CONSTRUCTION ENTRANCES (ITEM 209.22)
IS INCLUDED IN THIS CONTRACT. THE STABILIZED CONSTRUCTION ENTRANCE
SHOULD BE INSTALLED AT BOTH PROPOSED ENTRY/EXIT POINTS FROM NYS ROUTE 28. ANY SEDIMENT TRACKED ONTO NYS ROUTE 28 FROM THE PROJECT LOCATION SHALL BE CLEANED FROM THE ROADWAY IMMEDIATELY. CLEANING SEDIMENT TRACKED ONTO THE ROADWAY ADJACENT TO THE STABILIZED CONSTRUCTION ENTRANCE SHALL ALSO BE INCLUDED IN THE UNIT BID PRICE

EROSION AND SEDIMENT CONTROL PROJECT STAGING:

THE CONTRACTOR WILL BE REQUIRED TO PERFORM ALL CONSTRUCTION OPERATIONS IN A MANNER THAT MINIMIZES SOIL EROSION AND PREVENTS SEDIMENTATION ON LANDS ADJACENT TO OR AFFECTED BY THE WORK, AND TAKE MEASURES TO MAINTAIN WATER QUALITY OF RECEIVING WATER

THE AREA OF DISTURBANCE SHALL BE LIMITED TO AN AREA NO GREATER THAN FIVE ACRES AT

IF THE PROPOSED WORK WILL RESULT IN GREATER THAN FIVE ACRES OF DISTURBANCE AT ONE TIME, THE CONTRACTOR WILL NOT BE ALLOWED TO DISTURB A NEW SECTION OF THE PROJUCET UNTIL ALL DISTURBED AREAS ASSOCIATED WITH THE CURRENT SECTION HAVE BEEN STABILIZED, UNLESS OTHERWISE APPROVED BY THE ENGINEER-IN-CHARGE. THE ENGINEER-IN-CHARGE IN CONSULTATION WITH THE REGIONAL CONSTRUCTION ENVIRONMENTAL COORDINATOR SHALL DETERMINE WHEN STABILIZATION HAS BEEN ACHIEVED.

ALTERATIONS TO THE CONTRACT PLANS AND CONSTRUCTION SEQUENCING THAT WOULD RESULT IN GREATER THAN FIVE ACRES OF DISTURBANCE AT ONE TIME WILL REQUIRE NOTIFICATION TO NYSDEC AND AMENDMENT OF THE PROJECT SWPPP. IF THE CONTRACT PLANS AND CONSTRUCTION SEQUENCING IS ALTERED, NOTIFICATION TO NYSDEC MUST OCCUR 14 CALENDAR DAYS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY INFORMATION THAT AMENDS THE SWPPP. THE DEPARTMENT IS RESPONSIBLE FOR NOTIFYING NYSDEC.

DUE TO DATE RESTRICTIONS ON CUTTING TREES FOR THE ENDANGERED INDIANA BAT, TREE CUTTING (NOT INCLUDING GRUBBING) IS NOT ALLOWED TO OCCUR IN AREAS THAT ARE OUTSIDE OF THE AREA

"DISTURBED" IS DEFINED AS WORK THAT RESULTS IN SOIL EXPOSURE

"STABILIZED" IS DEFINED AS HAVING TEMPORARY OR PERMANENT EROSION AND SEDIMENT CONTROL MEASURES IN PLACE, INCLUDING, BUT NOT LIMITED TO, EROSION CONTROL MEASURES THAT COVER EXPOSED SOIL TO MINIMIZE SOIL FROM ERODING, PERIMETER SEDIMENT CONTROL MEASURES ALONE ARE NOT CONSIDERED ADEQUATE STABILIZATION.

PRIOR TO BEGINNING ANY DISTURBANCE ACTIVITIES ON A "SECTION" OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT A PLAN SHOWING THE LIMITS OF DISTURBANCE, INCLUDING THE AMOUNT OF AREA TO BE DISTURBED, AN EROSION AND SEDIMENT CONTROL PLAN THAT SUPPLEMENTS THE CONTRACT'S EROSION AND SEDIMENT CONTROL PLAN, AND A PROGRESS SCHEDULE FOR THE ACCOMPLISHMENT OF TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL WORK FOR REVIEW AND APPROVAL BY THE ENGINEER-IN-CHARGE. THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN SHALL INCLUDE MEASURES THAT MINIMIZE EROSION AND CONTROL SEDIMENT FOR STORAGE AND STAGING AREAS WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR'S EROSION AND SEDIMENT FOR SEDIMENT CONTROL PLAN SHALL BE PREPARED IN ACCORDANCE WITH DEPARTMENT SPECIFICATIONS AND GUIDANCE CONTAINED IN THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", LATEST EDITION.

TEMPORARY STABILIZATION MEASURES:

- 1. WHEN LAND DISTURBANCES IN A PARTICULAR AREA ARE NECESSARY AND WORK WILL BE ONGOING, TEMPORARY MULCHING AND SEEDING MUST BE PERFORMED ON AREAS WHICH WILL BE EXPOSED FOR MORE THAN 14 DAYS. TEMPORARY MULCH MUST BE PERFORMED ON AREAS WHICH WILL BE EXPOSED FOR MORE THAN 7 DAYS AND LESS THAN 14 DAYS. SEE EXPOSED SOIL CRITERIA TABLE THIS SHEET. TEMPORARY MULCHING WILL BE PAID UNDER ITEM 209.100101. TEMPORARY SEED AND MULCH WILL BE PAID UNDER ITEM 209.1003.
- 2. TEMPORARY SEEDINGS MAY BE NECESSARY ON DISTURBED AREAS WHERE FINAL GRADING IS COMPLETE, WHEN PREPARING FOR A TEMPORARY SHUTDOWN, OR TO PROVIDE COVER WHEN PERMANENT SEEDING ARE LIKELY TO FAIL DUE TO MID-SUMMER HEAT AND DROUGHT. THE INTENT IS TO PROVIDE TEMPORARY PROTECTIVE COVER DURING EMPORARY SHUTDOWN OF CONSTRUCTION AND/OR WHILE WAITING FOR OPTIMAL PLANTING TIME
- 3. THE CONTRACTOR SHOULD BE MINDFUL OF ANTICIPATED STORM EVENTS. DISTURBED AREAS THAT WILL BE EXPOSED LESS THAN 7 DAYS SHOULD RECEIVE TEMPORARY MULCHING TO DISTURBED AREAS SUSCEPTIBLE TO EROSION AND MOVEMENT OF SEDIMENT FROM THE SITE PRIOR TO RAIN EVENT.
- TEMPORARY STOCKPILE AREAS SHALL BE RINGED WITH SILT FENCE. STOCKPILES SHOULD BE SEEDED AND MULCHED IN ACCORDANCE WITH NOTE 1 ABOVE.
- ALL TEMPORARY STABILIZATION TIMEFRAMES SHALL BE IN ACCORDANCE WITH THE SPDES GENERAL PERMIT AND AS SPECIFIED IN THE NYSDEC NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT
- 6. TEMPORARY STRAW MULCH WILL BE APPLIED AT 2 TONS/ACRE (2-3 BALES PER 1000 SQFT) APPLICATION RATE.

COUNTY: ULSTER

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

EXPOSED SOIL (CRITERIA FOR TEMPORARILY EXPOSED AREA
CRITERIA	REQUIRED ACTION
PRIOR TO ANY ANTICIPATED PRECIPITATION OR AOBE	TEMPORARY MULCH (ITEM 209.100101)
NO WORK ON EXPOSED SOIL AREA(S) FOR 7 OR MORE CONSECUTIVE DAYS	ITEM 209.2103, SOIL STABILIZER, CLASS IV, TYPE C
NO WORK ON EXPOSED SOIL AREA(S) FOR 14 OR MORE CONSECUTIVE DAYS	ROUGHEN SURFACE (TRACK) OF BARE SOIL ON SOIL SLOPES 3H:1V OR STEEPER PRIOR TO OTHER REQUIRED ACTIONS. TEMPORARY SEED AND MULCH (ITEM 209.1003), AND SOIL STABILIZER, CLASS IV, TYPE C, ITEM 209.2103 (ITEM 209.2103 MAY BE USED IN LIEU OF MULCH UNDER ITEM 209.1003) OR PERMANENT STABILIZATION - PLACEMENT OF TOPSOIL (ITEM 610.1402) AS SPECIFIED AND TURF ESTABLISHMENT (ITEM 610.1601), AND 209 ITEMS AS SHOWN ON THE TYPICAL OR DETAILS IN THE CONTRACT PLANS.

PIN

NYSDOT REGION:

- 1. ALL AREAS SHALL BE BROUGHT TO FINAL GRADE AND TRIMMED AS SOON AS POSSIBLE.
- 2. MAINTENANCE OF MULCHED AREAS SHALL INCLUDE RE-MULCHING OF AREAS IN WHICH SOIL BECOMES EXPOSED TO VIEW. ANY AREAS THAT BECOME SETTLED OR GULLIED DURING MULCHING OPERATIONS SHALL BE RE-GRADED.
- 3. MAINTENANCE OF TEMPORARY SEEDED AREAS SHALL INCLUDE RE-SEEDING AS NEEDED TO ESTABLISH A SATISFACTORY STAND OF GRASS. THERE SHALL BE NO ADDITIONAL PAYMENT FOR RESEEDING.
- 4. THE USE OF TEMPORARY SEED AND MULCH (ITEM 209.1003), AS AN EFFECTIVE EROSION CONTROL METHOD MUST BE APPLIED PRIOR TO OCTOBER 15 AND AFTER MARCH 31.
- 5. DEPENDING ON WEATHER CONDITIONS, WATERING MAY BE NEEDED TO ESTABLISH TEMPORARY SEED. WATERING SHALL BE APPLIED AS SPECIFIED IN THE SUB-SECTION 610-3.10 OF THE STANDARD SPECIFICATION. WATER
- 6. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE CONTRACT. THERE SHALL BE NO ADDITIONAL PAYMENT FOR MAINTENANCE OF EROSION CONTROL MEASURES.
- 7. THE CONTRACTOR SHALL MAINTAIN A HYDRO-MULCHER ON SITE AT ALL TIMES WITH THE CAPABILITY TO APPLY A SOIL STABILIZER MEETING THE MATERIAL REQUIREMENTS OF SECTION 713-07 OF THE NYSDOT STANDARD

INSPECTION AND MAINTENANCE FOR COMPLIANCE WITH THE NYSDEC SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY PERMIT NO. GP-0-15-002:

- 1. THE OWNER OR OPERATOR OF THE CONSTRUCTION ACTIVITY SHALL HAVE A TRAINED CONTRACTOR (AS DEFINED IN THE GENERAL PERMIT) INSPECT THE EROSION AND SEDIMENT CONTROL PRACTICES AND POLLUTION PREVENTION MEASURES BEING IMPLEMENTED WITHIN THE ACTIVE WORK AREA DAILY TO ENSURE THAT THEY ARE BEING MINITAINED IN EFFECTIVE OPERATING CONDITIONS AT ALL TIMES. IF DEFICIENCIES ARE IDENTIFIED, THE CONTRACTOR SHALL BEGIN IMPLEMENTING CORRECTIVE ACTIONS WITHIN ONE BUSINESS DAY AND SHALL COMPLETE THE CORRECTIVE ACTIONS IN A REASONABLE TIME FRAME
- 2. THE QUALIFIED INSPECTOR SHALL PERFORM INSPECTIONS ON A WEEKLY BASIS UNLESS OTHERWISE NOTIFIED BY THE NYSDEC OR NYCDEP. IF THE OWNER RECEIVES AUTHORIZATION IN ACCORDANCE WITH PART ILC.3 OF THE GENERAL PERMIT TO DISTURB GREATER THAN 5 ACRES OF SOIL AT ANY ONE TIME, THE QUALIFIED INSPECTOR SHALL CONDUCT AT LEAST TWO SITE INSPECTIONS WEEKLY EVERY SEVEN CALENDAR DAYS. THE TWO INSPECTIONS SHALL BE SEPARATED BY A MINIMUM OF TWO FULL CALENDAR DAYS.
- 3. THE QUALIFIED INSPECTOR SHALL PREPARE AN INSPECTION REPORT SUBSEQUENT TO EACH AND EVERY INSPECTION. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE AND/OR ADDRESS THE FOLLOWING:

 -DATE AND TIME OF INSPECTION

 - -NAME AND TITLE OF PERSON PERFORMING INSPECTION
 -A DESCRIPTION OF THE WEATHER AND SOIL CONDITIONS
 -A DESCRIPTION OF THE CONDITION OF THE RUNOFF AT ALL POINTS OF DISCHARGE FROM THE CONSTRUCTION SITE.
 - CONSTRUCTION STEE.

 A DESCRIPTION OF ALL EROSION AND SEDIMENT CONTROL PRACTICES AND POLLUTION PREVENTION
 MEASURES THAT NEED REPAIR OR MAINTENANCE
 -IDENTIFICATION OF ALL EROSION AND SEDIMENT CONTROL PRACTICES AND POLLUTION PREVENTION
 - MEASURES THAT WERE NOT INSTALLED PROPERLY OR ARE NOT FUNCTIONING AS DESIGNED AND NEED TO
- BE REINSTALLED OR REPLACED BE REINSTALLED OR REPLACED

 DESCRIPTION AND SKETCH OF AREAS WITH ACTIVE SOIL DISTURBANCE ACTIVITY, AREAS THAT HAVE BEEN
 DISTURBED BUT ARE INACTIVE AT THE TIME OF THE INSPECTION, AND AREAS THAT HAVE BEEN
 STABILIZED (TEMPORARY AND/OR FINAL) SINCE THE LAST INSPECTION

 -CURRENT PHASE OF CONSTRUCTION OF ALL POST-CONSTRUCTION SMP'S AND IDENTIFICATION OF ALL
 CONSTRUCTION THAT IS NOT IN CONFORMANCE WITH THE SWPPP AND TECHNICAL STANDARDS

 -CORRECTIVE ACTIONS THAT MUST BE TAKEN TO CORRECT IDENTIFIED DEFICIENCIES

 -IDENTIFICATION AND STATUS OF ALL CORRECTIVE ACTIONS THAT WERE REQUIRED BY PREVIOUS

 INSPECTION
- INSPECTION
 -DIGITAL PHOTOGRAPHS WITH DATE STAMP THAT CLEARLY SHOW THE CONDITION OF THE PRACTICES THAT HAVE BEEN IDENTIFIED AS NEEDING MAINTENANCE AS WELL AS PHOTOGRAPHS OF PREVIOUS DEFICIENCIES
- 4. WITHIN ONE BUSINESS DAY OF THE COMPLETION OF AN INSPECTION, THE QUALIFIED INSPECTOR SHALL NOTIFY THE OWNER OR OPERATOR AND APPROPRIATE SUBCONTRACTOR OF ANY CORRECTIVE ACTIONS THAT NEED TO BE TAKEN. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEGIN IMPLEMENTING THE CORRECTIVE ACTIONS WITHIN ONE BUSINESS DAY OF THIS NOTIFICATION AND SHALL COMPLETE THE CORRECTIVE ACTIONS
- 5. ALL INSPECTION REPORTS SHALL BE SIGNED BY THE QUALIFIED INSPECTOR, INSPECTION REPORTS SHALL BE

N L	MAINTAIN	NED ON SITE WITH	H THE SWPPP. IN:	SPECTIONS SHALL CONTINUE IN ACCORDANCE WITH THE PERM RE SITE AND THE NOTICE OF TERMINATION IS FILED WITH T	IT
		BRIDGES	CULVERTS	ALL DIMENSIONS IN f† UNLESS OTHERWISE NOTED	CONTRACT NUMBER

EROSION CONTROL NOTES

DRAWING NO. ECN-1 SHEET NO. 14

HVEA

BEACON, NEW YORK 12508 (845) 838-3600 www.hveapc.com



8193_cph_ecn_l 29-MAY-2019 10 K1**a**

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A PROJECT SPECIFIC SAFETY AND HEALTH PLAN IN ACCORDANCE WITH SECTION 107-05, SAFETY AND HEALTH REQUIREMENTS. THE SAFETY AND HEALTH PLAN SHALL SPECIFICALLY ADDRESS SPILL PREVENTION AND A RESPONSE PLAN. THE PLAN SHALL DETAIL THE STEPS NEEDED TO BE FOLLOWED IN THE EVENT OF AN ACCIDENTAL SPILL AND SHALL IDENTIFY CONTACT NAMES AND PHONE NUMBERS OF PEOPLE AND AGENCIES THAT MUST BE NOTIFIED. THE PLAN SHOULD INCLUDE NYSDEC'S SPILL REPORTING AND INITIAL NOTIFICATION PEOULDEMENTS NOTIFICATION REQUIREMENTS.

THE PLAN SHALL INCLUDE SAFETY DATA SHEETS (MSDS) FOR MATERIAL TO BE STORED ON SITE. ALL WORKERS ON-SITE WILL BE REQUIRED TO BE TRAINED ON SAFE HANDLING AND SPILL PREVENTION PROCEDURES FOR ALL MATERIALS USED DURING CONSTRUCTION. REGULAR TAILGATE SAFETY MEETINGS SHALL BE HELD AND ALL CONSTRUCTION. REGULAR TAILGATE SAFETY MEETINGS SHALL BE HELD AND ALL WORKERS THAT ARE EXPECTED ON THE SITE DURING THE WEEK SHALL BE REQUIRED TO ATTEND. AGENDA, TOPICS AND SIGN-IN SHEETS SHALL BE PROVIDED TO THE E.I.C.. MATERIAL REGARDING PROPER HANDLING, SPILL RESPONSE, SPILL KIT LOCATION, AND EMERGENCY ACTIONS TO BE TAKEN SHOULD BE DISTRIBUTED TO ALL CONSTRUCTION PERCONNELL AND AGE PROSTED.

ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON-SITE SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT CONFORMS TO ALL APPLICABLE FEDERAL AND STATE REGULATIONS THAT DOES NOT CAUSE A CONTAMINATION OF STORMWATER, GOOD HOUSEKEEPING AND PREVENTATIVE MEASURES WILL BE TAKEN TO ENSURE THAT THE SITE WILL BE KEPT CLEAN, WELL ORGANIZED,

1. ALL STATE AND FEDERAL REGULATIONS SHALL BE FOLLOWED FOR THE STORAGE, HANDLING, APPLICATION, USAGE AND DISPOSAL OF PESTICIDES, FERTILIZERS, AND

2. ALL VEHICLES, EQUIPMENT, AND PETROLEUM PRODUCT STORAGE/DISPENSING AREA WILL BE OBSERVED REGULARLY DURING SITE INSPECTIONS TO DETECT ANY LEAKS OR SPILLS, AND TO IDENTIFY MAINTENANCE NEEDS TO PREVENT LEAKS AND SPILLS. ON-SITE FUELING TANKS AND PETROLEUM PRODUCT STORAGE CONTAINERS SHALL CONTAIN SECONDARY CONTAINMENT. SPILL PREVENTION MEASURES, SUCH AS DRIP PANS, WILL BE USED WHEN CONDUCTING MAINTENANCE AND REPAIR OF VEHICLES AND EQUIPMENT. IN ORDER TO PERFORM EMERGENCY REPAIRS ON SITE, TEMPORARY PLASTIC WILL BE PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE. CONTAINMENT SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING AN DISCHARGES OR SPILL INCIDENT. CONTAINMENT SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING AN DISCHARGES OR SPILL INCIDENT. CONTAMINATED SOIL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL CURRENT FEDERAL AND STATE REGULATIONS. THE NYSDEC, NYCOEP AND COUNTY WILL BE NOTIFIED IF ANY SPILLS OVER THE REPORTABLE LIMIT OCCUR. THE NYSDEC GUIDANCE ON SPILL REQUIREMENTS ARE CONTAINED IN THE TECHNICAL FIELD GUIDANCE, SPILL REPORTING AND INITIAL NOTIFICATION REQUIREMENTS (ALSO CONTAINED IN THE PROJECT SPECIFIC SWPPP).

3. ANY CHEMICALS STORED IN THE CONSTRUCTION AREAS WILL CONFORM TO THE APPROPRIATE MANUFACTURERS RECOMMENDATIONS AND OR THE APPROPRIATE FEDERAL/STATE REGULATIONS. ALL CHEMICALS SHALL HAVE COVER, CONTAINMENT, FEDERAL/SIATE REGULATIONS. ALL CHEMICALS SHALL HAVE COVER, CONTAINMENT, AND PROTECTION PROVIDED ON-SITE, PER ALL FEDERAL AND NEW YORK STATE DEC REGULATIONS. APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, SHALL BE CONDUCTED IN A MANNER AND AT APPLICATION RATES THAT WILL NOT RESULT IN LOSS OF CHEMICAL TO STORMWATER RUNOFF.

MANUFACTURER'S RECOMMENDATION FOR APPLICATION RATES AND PROCEDURES SHALL PROFESSIONERS.

4. ALL DEWATERING FROM OPEN CUT EXCAVATIONS SHALL BE DISCHARGED INTO A CONTROLLED CONVEYANCE SYSTEM. CHANNELS AND DISCHARGE POINTS SHALL BE STABILIZED PRIOR TO USE FOR DISCHARGE.

5. DUST RELEASED FROM ON-SITE GRADING OPERATIONS WILL BE CONTROLLED USING STANDARDS AND SPECIFICATIONS FOR DUST CONTROL FROM THE BLUE BOOK (ALSO CONTAINED IN THE PROJECT SPECIFIC SWPPP).

6. PROCESS WATER AND SLURRY RESULTING FROM CONCRETE WORK WILL BE PREVENTED FROM ENTERING SURFACE WATERS, JURISDICTIONAL WETLANDS, AND ANY CLOSED DRAINAGE FACILITY. SEE DWG. NO. ECD-03.

7. PORTABLE SANITARY FACILITIES WILL BE FIRMLY SECURED, REGULARLY MAINTAINED, AND EMPTIED WHEN NECESSARY.

8. LITTER AND TRASH SHALL BE CLEANED AND DISPOSED OF IN SECURE CLEARLY MARKED DUMPSTERS OR TRASH RECEPTACLES. SITE IS TO BE CLEANED DAILY OF DEBRIS AND DISPOSED OF ON A DAILY BASIS.

REPORTING OF SPILLS, DISCHARGES AND/OR CONTAMINATED SOILS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ANY FINDINGS OF THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ANY FINDINGS OF SPILLS, LEAKS OR PETROLEUM PRODUCTS, CONTAMINATED SOILS, BURIED DRUMS OF UNKNOWN SUBSTANCES, OR ANY POTENTIALLY HAZARDOUS MATERIALS TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC). WITHIN TWO (2) HOURS OF THE DISCOVERY, NOTIFICATION MUST BE MADE BY CALLING THE NYSDEC SPILLS HOTLINE AT 800-457-7362.

AFFIX SEAL: ALTERED BY: AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:

8193_cph_ecn_02.dgn 29-MAY-2019 16:36 Kia

2. NO FUEL STORAGE, EXCEPT FOR WHAT IS NECESSARY FOR ONE DAY OF WORK, WILL BE ALLOWED ON CITY PROPERTY. SPILL CONTROL KITS CONTAINING ABSORBENTS MUST BE KEPT ON SITE AT ALL TIMES WHENEVER WORK IS CONDUCTED ON CITY PROPERTY. NO RELEASING, DUMPING, SPILLING OR OVERNIGHT STORAGE OF ANY PETROLEUM-BASED OIL, HYDRAULIC FLUID, FUELS OR CHEMICALS SHALL BE PERMITTED ON CITY PROPERTY. ALL SPILLS AND RELEASES MUST BE IMMEDIATELY REPORTED TO THE DEP POLICE AT 914-593-7500 OR 888-426-7433.

PERMANENT STABILIZATION MEASURES:

- 1. PERMANENT STABILIZATION MEASURES SHOULD BE PERFORMED AS SOON AS POSSIBLE AFTER COMPLETION OF GRADING. WAITING UNTIL ALL DISTURBED AREAS ARE READY FOR PERMANENT STABILIZATION IS UNACCEPTABLE.
- 2. EXPOSED DISTURBED AREAS ADJACENT TO A CONVEYANCE THAT PROVIDE RAPID DISCHARGE FROM SITE SHALL BE COVERED WITH PLASTIC OR GEOTEXTILE TO PREVENT SOIL LOSS UNTIL IT CAN BE STABILIZED (THIS WORK TO BE INCLUDED IN THE BID PRICE FOR VARIOUS 209 ITEMS. NO ADDITIONAL PAYMENT WILL BE MADE TO PROTECT UNSTABILIZED SURFACES FROM EROSION SUSCEPTIBLE TO RAPID DISCHARGE FROM
- 3. PERMANENT SEEDING SHOULD OPTIMALLY BE UNDERTAKEN IN THE SPRING FROM MARCH THROUGH MAY, AND IN LATE SUMMER AND EARLY FALL FROM SEPTEMBER TO OCTOBER 15, WHEN SEEDING IS IMPRACTICABLE, AN APPROPRIATE TEMPORARY MULCH SHALL BE APPLIED. PERMANENT SEEDING MAY BE UNDERTAKEN DURING THE SUMMER IF ADEQUATE WATERING WILL BE PROVIDED. PAYMENT FOR WATERING WILL BE MADE UNDER TURF ESTABLISHMENT ITEM.
- 4. ALL SLOPES STEEPER THAN A 1V:3H AND 1V:3H SLOPES ADJACENT TO BIORETENTION PRACTICES WILL REQUIRE ROLLED EROSION CONTROL PRODUCTS (RECP) UNLESS OTHERWISE NOTED ON DETAILS AND IN PLANS. INSTALLATION OF RECP WILL
- 5. SEEDBED MUST BE SEEDED WITHIN 24 HOURS OF DISTURBANCE OR SCARIFICATION
- 6. ANY SEEDING METHOD MAY BE USED THAT WILL PROVIDE UNIFORM APPLICATION OF SEED TO THE AREA AND RESULT IN A RELATIVELY GOOD SEED TO SOIL CONTACT. SEE SECTION 610-2.03 AND 610-3.03 FOR SEEDING APPLICATION RATES/TYPE.

SOIL RESTORATION:

- 1. SOIL RESTORATION WILL BE PERFORMED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL LISTED BELOW. SOIL RESTORATION SHOULD BE PERFORMED DURING PERIODS OF RELATIVELY LOW TO MODERATE SUBSOIL MOISTURE, THE ASPHALT AND GRANULAR SUBBASE SHOULD BE EXCAVATED AND DISPOSED OF ALL OTHER VEGETATED AREAS (OUTSIDE PRACTICES) IN THE PROJECT IMPACT AREA WILL RECEIVE 6" OF TOPSOIL AND TURF ESTABLISHMENT TO MEET RESTORATION REQUIREMENTS.
- 2. APPLY 3" ITEM 610.10 COMPOST OVER SUBSOIL. THE COMPOST SHALL BE WELL DECOMPOSED (MATURED AT LEAST 3 MONTHS), WEED FREE, ORGANIC MATTER. IT SHALL BE AEROBICALLY COMPOSTED, POSSESS NO OBJECTIONABLE ODORS, AND CONTAIN LESS THAN 1%, BY DRY WEIGHT, OF MAN-MADE FOREIGN MATTER. ALL BIOSOLIDS COMPOST PRODUCED IN NEW YORK STATE (OR APPROVED FOR IMPORTATION) MUST MEET THE NYS DEC'S 6 NYCRR PART 360 (SOLID WASTE MANAGEMENT FACILITIES) REQUIREMENTS. THE PART 360 REQUIREMENTS ARE EQUAL TO OR MORE STRINGENT THAN 40 CFR PART 503 WHICH ENSURE SAFE STANDARDS FOR PATHOGEN REDUCTIONS AND HEAVY METALS CONTENT.
- 3. TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT MOUNTED RIPPER, TRACTOR MOUNTED DISC, OR TILLER, TO MIX AND CIRCULATE AIR AND COMPOST INTO THE SUBSOIL. THE COST OF TILLING COMPOST INTO THE SUBSOIL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 610.10.
- 4. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
- 5. APPLY 6" ITEM 610.1402 TOPSOIL. SEED AND MULCH IMMEDIATELY AFTER PLACING TOPSOIL (AND/OR ANY OTHER STABILIZATION MEASURES INDICATED ON THE CONTRACT PLANS OR IN THE SPECIFICATION).
- 6. AT THE END OF THE PROJECT AN INSPECTOR SHOULD BE ABLE TO PUSH 3/8"
 METAL BAR 12 INCHES INTO THE SOIL JUST WITH BODY WEIGHT. THE AREA SHOULD
 BE KEPT FREE OF VEHICULAR AND FOOT TRAFFIC AND SHOULD NOT BE USED BY THE CONTRACTOR TO STORE MATERIALS EQUIPMENT.

WINTER STABILIZATION NOTES:

1. AN ENHANCED EROSION AND SEDIMENT CONTROL PLAN TO MANAGE RUNOFF AND SEDIMENT DURING CONSTRUCTION ACTIVITIES HAS BEEN CONSIDERED AND INCORPORATED INTO THE SWPPP TO THE EXTENT PRACTICAL AND NECESSARY, IF DURING THE COURSE OF CONSTRUCTION, IT BECOMES APPARENT THAT A WINTER SHUTDOWN WILL BE NECESSARY AND COMPLETION OF WORK LEFT UNDONE WILL BE COMPLETED IN THE NEXT CONSTRUCTION SEASON, TEMPORARY STABILIZATION WITH TEMPORARY SEEDING AND MULCHING MUST BE PERFORMED TO ALLOW FOR ESTABLISHMENT OF VEGETATIVE COVER. UNDER NO CIRCUMSTANCES SHALL ROADSIDE OPEN DITCHES BE LEFT UNDISTURBED OVER THE SHUTDOWN WITHOUT A SUBSTANTIAL VEGETATIVE COVER. IN ACCORDANCE WITH SECTION 108-01, THE EIC SHOULD NOT APPROVE ANY SCHEDULE THAT DOES NOT PROVIDE ADEQUATE TIME TO ALLOW FOR ESTABLISHMENT OF VEGETATION IN DISTURBED AREAS (INCLUDING ROADSIDE DITCHES) PRIOR TO WINTER MONTHS.

STREAM PROTECTION NOTES:

1. JUST WEST OF THE PROJECT LIMITS (100' BUFFER SHOWN ON CONTRACT PLANS FOR SPATIAL AWARENESS) A NYSDEC PROTECTED STREAM FLOWS GENERALLY SOUTH AND FOR SPATIAL AWARENESS) A NYSDEC PROTECTED STREAM FLOWS GENERALLY SOUTH AND IS ROUTED UNDER NYS ROUTE 28 AND THE ASHOKAN RAIL TRAIL VIA CONCRETE CULVERTS, NO DISTURBANCES ARE ALLOWED WITHIN 50' HORIZONTALLY FROM THE MEAN HIGH WATER LINE. TEMPORARY CONSTRUCTION FENCING ALONG WITH PERIMETER SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AT THE LIMITS OF DISTURBANCE WHERE INDICATED ON THE PLANS, UNDER NO CIRCUMSTANCES WILL DISTURBANCES (INCLUDING STOCKPILING, STAGING OR STORAGE OF ANY MATERIALS) BE ALLOWED ON THE GRASSY BUFFER BETWEEN THE STREAM BANK AND THE TEMPORARY CONSTRUCTION FENCING SHOWN ON THE PLANS. IF DISTURBANCES ARE NECESSARY BEYOND THE LIMITS INDICATED ON THE PLANS A NYSDEC PROTECTION OF WATERS PERMIT MAY BE REQUIRED. NO WORK SHOULD BE PERFORMED BEYOND THE LIMITS INDICATED WITHOUT FIRST CONTACTING THE ELIC... FIRST CONTACTING THE F.I.C.

NYC WATER SUPPLY WATERSHED NOTES:

THE FOLLOWING CONTRACT INFORMATION PERTAINS TO ALL NOTES IN THIS SECTION:

WEST OF HUDSON: NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION (NYCDEP) BUREAU OF WATER SUPPLY, STORMWATER PROGRAM, WEST OF HUDSON 71 SMITH AVENUE CHARLES LAING CLAING@DEP.NYC.GOV, (845) 340-7218, FAX (845) 338-1326

THE CONTRACTOR IS REQUIRED TO STAY WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR THE CONTRACTOR IS REQUIRED TO STAT WITHIN THE RIGHT-OF-WAY. THE CONTRACT WILL NOT DEPOSIT ANY DEBRIS ON NYCDEP OWNED LANDS.

PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL PROVIDE THE ENGINEER-IN-CHARGE (EIC) WITH A DETAILED WORK SCHEDULE FOR THE WORK LOCATED IN THE NYC WATER SUPPLY WATERSHED. THE EIC SHALL SUBMIT THE SCHEDULE TO THE NYCDEP WEST OF HUDSON CONTACTS PROVIDED ABOVE, UNLESS OTHERWISE MATED

THE EIC WILL NOTIFY THE NYCDEP CONTACTS AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK IN THE NYC WATER SUPPLY WATERSHED.

NYC EQUIPMENT SANITIZING NOTES TO PREVENT THE SPREAD OF AQUATIC INVASIVE SPECIES:

BOATS AND OTHER EQUIPMENT, INCLUDING, BUT NOT LIMITED TO, PLATFORMS, WATER PUMPING EQUIPMENT, WATER STORAGE TANKS, AND TRAILERS AND TRUCKS THAT CARRY SUCH STORAGE TANKS, THAT ARE PLACED IN WATERBODIES LOCATED IN THE NYC WATERSHED MUST BE DISINFECTED USING HIGH TEMPERATURE PRESSURE WASHER (STEAM POWER WASHER) PRIOR TO THE START OF WORK AND PRIOR TO LEAVING THE

(STEAM POWER WASHER) PRIOR TO THE START OF WORK AND PRIOR TO LEAVING THE WORK SITE. THE MINIMUM EQUIPMENT OPERATING SPECIFICATIONS ARE 160 DEGREES FAHRENHEIT, 700 PSI, 2 CALLONS PER MINUTE.

ALL EQUIPMENT AND TANKS MUST BE COMPLETELY DEWATERED PRIOR TO DISINFECTION, ANY DEBRIS FOUND ON TRAILERS, ETC. MUST BE REMOVED BEFORE BEING DISINFECTED. THE ENTIRE SURFACE AREA (INTERIOR AND EXTERIOR) OF THE TANK AND EQUIPMENT, INCLUDING, BUT NOT LIMITED TO, ANY AREA THAT COMES IN CONTACT WITH A HIGH TEMPERATURE PRESSURE WASHER. DISINFECTION BETWEEN SITES IS NOT REQUIRED WHEN TRAVELING FROM ONE LOCATION TO ANOTHER IN A DOWNSTREAM DIRECTION ON THE SAME STREAM (SYCEPT FOR THE FSOPILS CREFK - SEF BEIOW) ON THE SAME STREAM (EXCEPT FOR THE ESOPUS CREEK - SEE BELOW).

THE FOLLOWING DISINFECTING OPTIONS CAN BE USED:
THE CONTRACTOR WILL BE RESPONSIBLE FOR PROPERLY DISINFECTING THE EQUIPMENT
USING THEIR OWN HIGH TEMPERATURE PRESSURE WASHER (REQUIREMENTS NOTED ABOVE), EQUIPMENT SHALL BE PROPERLY DISINFECTED BY A THIRD PARTY ENTITY THAT SPECIALIZES IN HIGH TEMPERATURE PRESSURE WASHING OPERATIONS REQUIREMENTS NOTED ABOVE. DISINFECTING OPERATIONS MUST OCCUR WITHIN 75 MILES OF THE NYC WATER SUPPLY WATERSHED, BUT NOT LOCATED ON NEW YORK CITY

DISINFECTING OPERATIONS ARE PROHIBITED ON LOCATIONS WHERE THE RUNOFF FROM DISINFECTING OPERATIONS WOULD ENTER A STREAM OR WATERBODY.

THERE IS NO SEPARATE PAYMENT FOR DISINFECTING EQUIPMENT.

PRIOR TO PLACING ANY BOATS OR OTHER EQUIPMENT IN A WATERBODY THAT IS LOCATED IN THE NYC WATER SUPPLY WATERSHED, THE EIC SHALL CONTACT THE NYCDEP LAND MANAGEMENT OFFICE NEAR THE RESERVOIR OF INTEREST 14 CALENDAR DAYS PRIOR TO PERFORMING DISINFECTING OPERATIONS TO ARRANGE FOR A NYCDEP REPRESENTATIVE TO BE PRESENT DURING DISINFECTING

CONTACT NUMBERS ARE: ASHOKAN RESERVOIR: (845) 657-2663 RONDOUT RESERVOIR: (845) 985-0386 ALL EAST OF HUDSON RESERVOIRS: (914) 232-1309

ANY ITEM THAT IS DISINFECTED AND MOVED BEYOND THE SHORE OF THE WATERBODY WHERE WORK IS LOCATED SHALL BE DISINFECTED AGAIN PRIOR TO REUSE IN THE WATERBODY.

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

EROSION CONTROL NOTES

BEACON, NEW YORK 12508 (845) 838-3600 www.hveapc.com



DRAWING NO. ECN-2 SHEET NO. 15

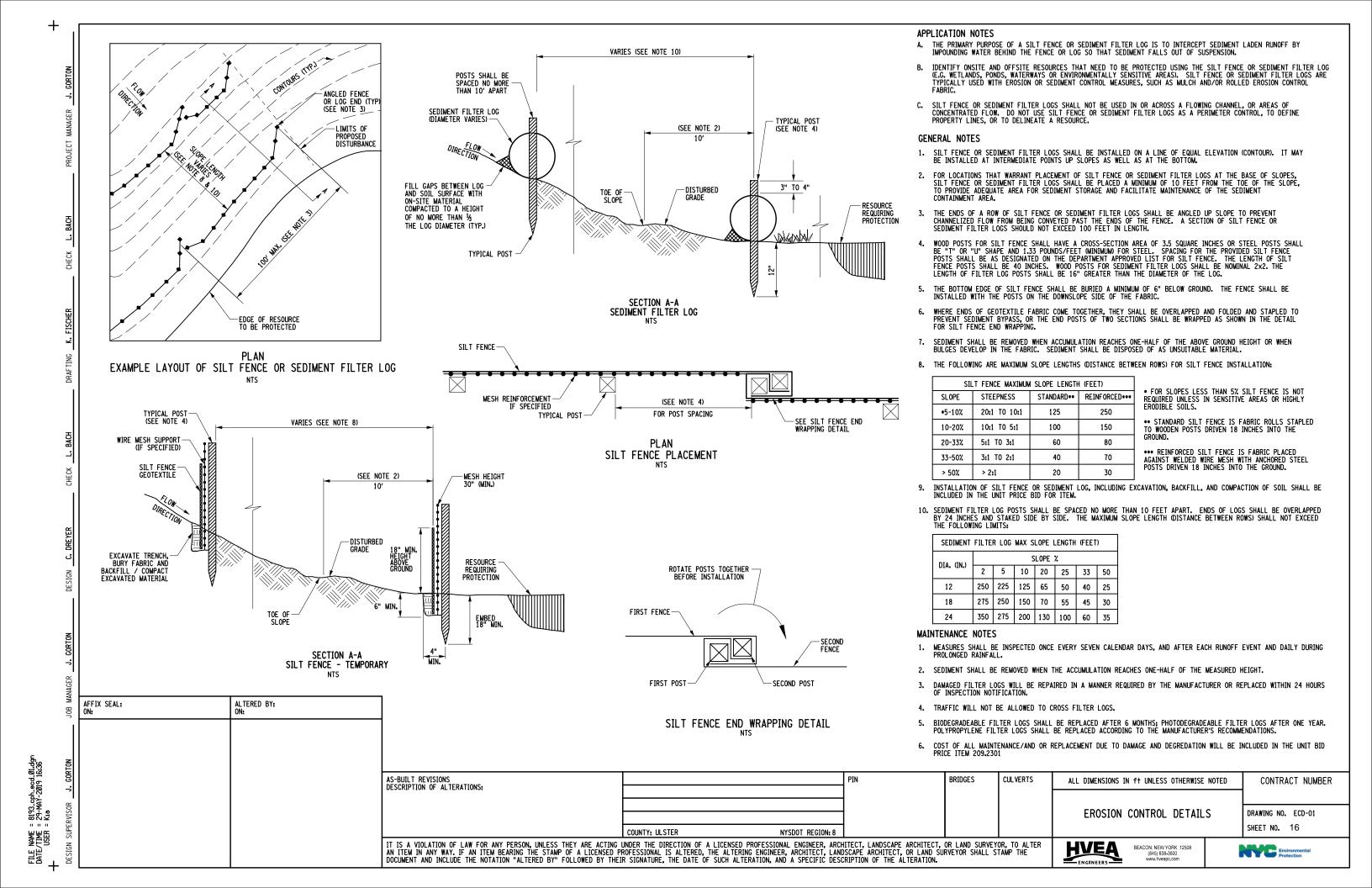
CONTRACT NUMBER

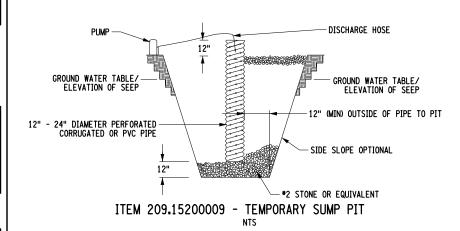
COUNTY: ULSTER NYSDOT REGION: 8 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PIN

BRIDGES

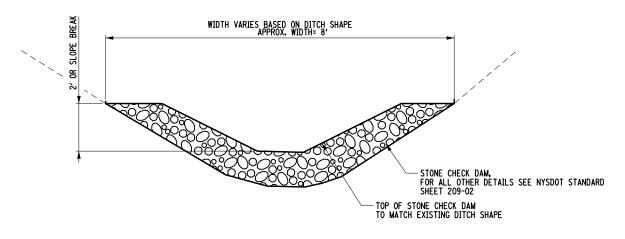
CUL VERTS





- NUIES:

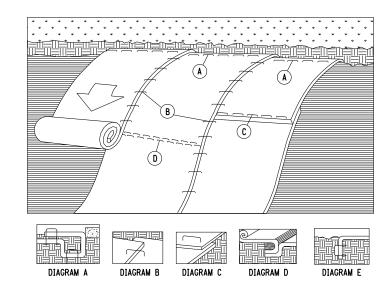
 1. TEMPORARY SUMP PITS SHALL BE USED, AOBE, IF IN THE EVENT SUBSURFACE SEEPS ARE ENCOUNTERED AND CREATE DIFFICULTIES IN CONSTRUCTING ANY ELEMENTS ASSOCIATED WITH THE ASHOKAN STATION TRAILHEAD PARKING AREA, AOBE, DISCHARGE FROM THE TEMPORARY SUMP PIT MAY BE OUTLETTED TO STORMWATER CONVEYANCES MEASURES THAT DIRECTLY DISCHARGE FROM THE SITE WHEN DISCHARGE IS FREE AND CLEAR OF SEDIMENT, THERE IS A NYSDEC STREAM CLASSIFIED AS CLASS A, WITH A STANDARD A(T) ON THE WESTERN LIMITS OF THE PROJECT. WITH PERMISSION FROM THE ENGINEER, DISCHARGE MAY BE PUMPED DIRECTLY TO THE STREAM IF THE DISCHARGE IS AS FREE AND CLEAR OF SEDIMENT AS THE STREAM ITSELF. OTHERWISE, DISCHARGE SHALL BE PUMPED DIRECTLY TO THE TEMPORARY SEDIMENT BASIN.
- 2. PIT DIMENSIONS ARE OPTIONAL.
- 3. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12" TO 24" DIAMETER
- 4. A BASE OF 2" AGGREGATE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12", AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD BE BACKFILLED WITH 2" AGGREGATE.
- 5. THE STANDPIPE SHOULD EXTEND 12" TO 18" ABOVE THE LIP OF THE PIT.
- 6. IF DISCHARGE IS TO BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE SHOULD BE WRAPPED WITH FILTERCLOTH BEFORE INSTALLATION. IF DESIRED, 1/4" TO 1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE
- 7. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ADEQUATE MEASURES ARE EMPLOYED AT THE DISCHARGE POINT TO PROTECT AGAINST EROSION. ALL WORK REQUIRED TO INSTALL, MAINTAIN DURING OPERATION AND REMOVE ARE INCLUDED IN THE UNIT BID PRICE FOR ITEM 209.15200009. WORK INCLUDES BUT IS NOT LIMITED TO ANY ADJUSTMENTS AOBE TO ENHANCE PERFORMANCE AND REDUCE TURBIDITY OF DISCHARGE AND PROTECT THE DISCHARGE POINT FROM EROSION, HOWEVER, SEPARATE PAYMENT WILL BE MADE WHEN THE USE OF A GEOTEXTILE FABRIC SEDIMENT COLLECTION BAG (ITEM 209.11000001) IS DEEMED NECESSARY BY THE ENGINEER.



CHECK DAM. STONE- PERMANENT ITEM 209.1106

PERMANENT STONE CHECK DAM NOTES

- 1. PERMANENT CHECK DAMS ARE TO BE INSTALLED IN EXISTING ERODED
- 2. EXACT LOCATION AND SPACING OF CHECK DAMS TO BE DETERMINED IN THE FIELD AND APPROVED BY THE EIC.



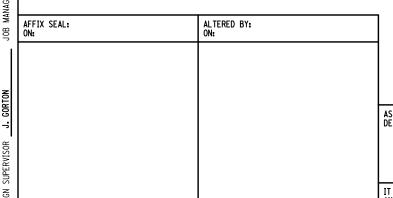
ROLLED EROSION CONTROL PRODUCT, CLASS II, TYPE B - INTERMEDIATE ITEM 209.190201

NTS

- 1. PREPARE THE SOIL SURFACE INCLUDING RAKING, SEEDING AND FERTILIZING.
- 2. BEGIN THE INSTALLATION PROCESS BY DIGGING A TRENCH 6" DEEP BY 6" DEEP WIDE AT THE TOP OF BLANKET OVER THE UP-SLOPE PORTION OF THE TRENCH. SECURE THE BLANKET AT THE BOTTOM OF THE TRENCH WITH STAPLES PLACED 12" APART. BACKFILL AND COMPACT THE TRENCH. APPLY SEED AND FOLD THE REMAINING 12" OF BLANKET OVER THE SOIL, SECURE WITH A ROW OF STAPLES PLACED 12" APART ACROSS THE WIDTH OF THE BLANKET. (SEE DIAGRAM A).
- 3. ROLL THE BLANKET VERTICALLY DOWN THE SLOPE. SECURE USING THE APPROPRIATE STAPLE PATTERN AS RECOMMENDED BY THE MANUFACTURER.
- 4. PARALLEL BLANKETS MUST BE OVERLAPPED BY A MINIMUM 4" AND SECURED WITH A ROW OF STAPLES PLACED APPROXIMATELY 3' -O" APART (SEE DIAGRAM B).
- 5. ADDITIONAL VERTICAL BLANKETS CAN BE JOINED USING A MINIMUM 4"
 OVERLAPPING (SHINGLE STYLE) IN THE DIRECTION OF WATER FLOW, CONNECT THE
 BLANKETS BY USING STAPLES APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE
 BLANKET (SEE DIAGRAM C).
- FOR MAXIMUM PERFORMANCE A CHECK SLOT SHOULD BE PLACED AT 25' 40' INTERVALS. A 6" X 6" WIDE TRENCH IS MADE. THE BLANKET IS PLACED AT THE BOTTOM OF THE TRENCH AND COVERED WITH APPROXIMATELY 2" OF SOIL. THE BLANKET IS ROLLED OVER COMPACTED SOIL AND SECURED WITH STAPLES PLACED 4" APART. A SECOND ROW SHOULD BE PLACED 4" BELOW IN A STAGGERED PATTERN. BACKFILL AND COMPACT THE TRENCH. APPLY SEED AND CONTINUE WITH THE GENERAL INSTALLATION (SEE DIAGRAM D).
- THE END OF THE BLANKET MUST BE SECURED IN A 6" X 6" TRENCH WITH A ROW OF STAPLES PLACED AT 12" INTERVALS (SEE DIAGRAM E).
- 8. ALL SLOPES STEEPER THAN 3:1 (H:V), OR 33.3% SHALL BE IMMEDIATELY STABILIZED WITH ROLLED EROSION CONTROL PRODUCT (SEE TYPICALS AND DETAILS FOR LOCATIONS). SLOPES THAT ARE 3H:1V WITHIN BIORETENTION PRACTICES WILL ALSO RECEIVE RECP IN ACCORDANCE WITH THIS DETAIL.

CUL VERTS

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 80% COVERAGE THROUGHOUT THE BLANKETED AREA, DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 2 CALENDAR DAYS, ANY MAINTENANCE PERFORMED TO ENSURE THE PRACTICE FUNCTIONS AS INTENDED WILL BE INCLUDED IN THE UNIT BID PRICE TITE 200 100201 THE UNIT BID PRICE ITEM 209.190201.



8193_cph_ecd_02.dgn 29-MAY-2019 16:36 Kia

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: BRIDGES COUNTY: ULSTER NYSDOT REGION: 8 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



BEACON, NEW YORK 12508 (845) 838-3600 www.hveapc.com

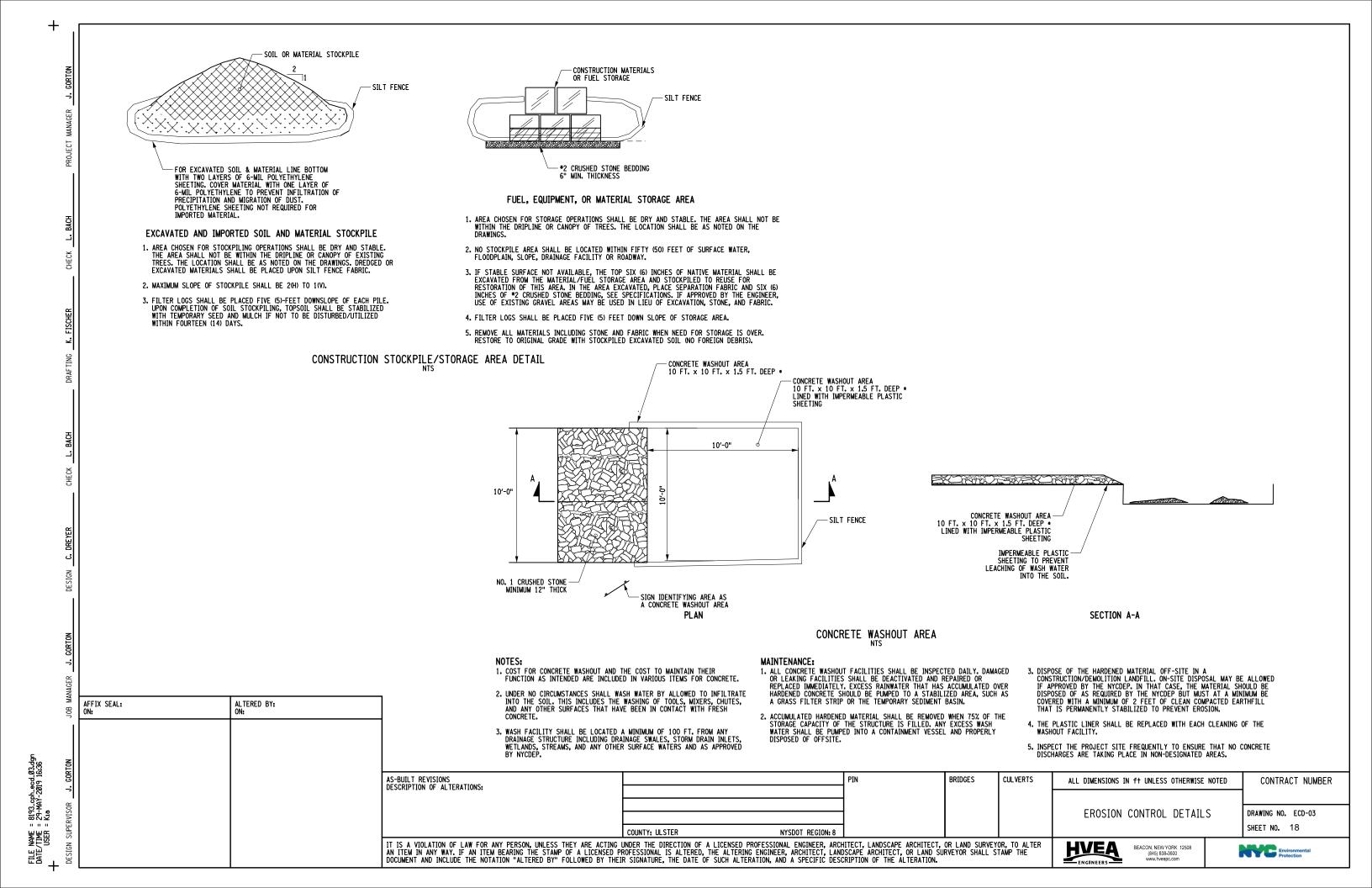
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

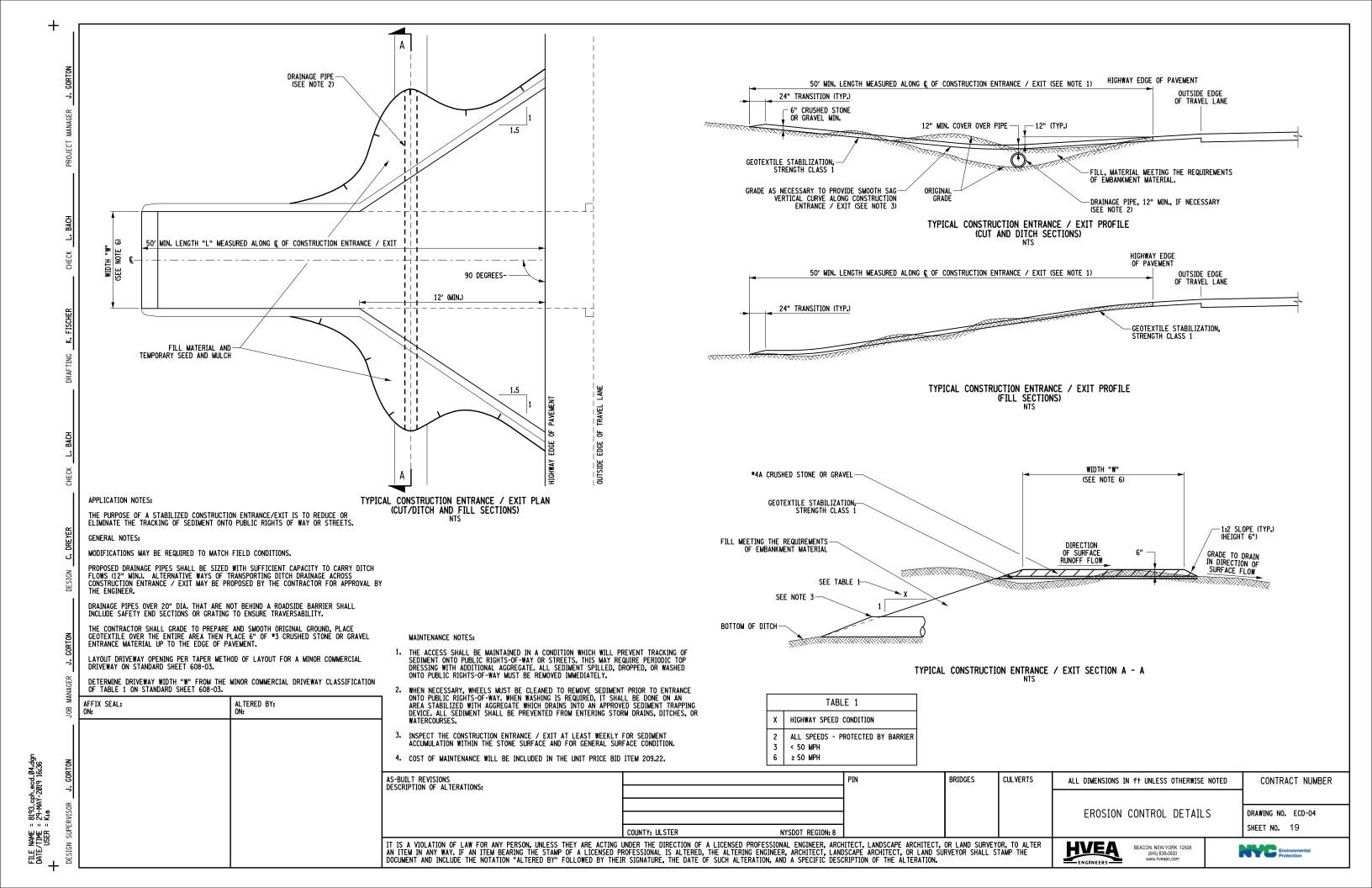
EROSION CONTROL DETAILS

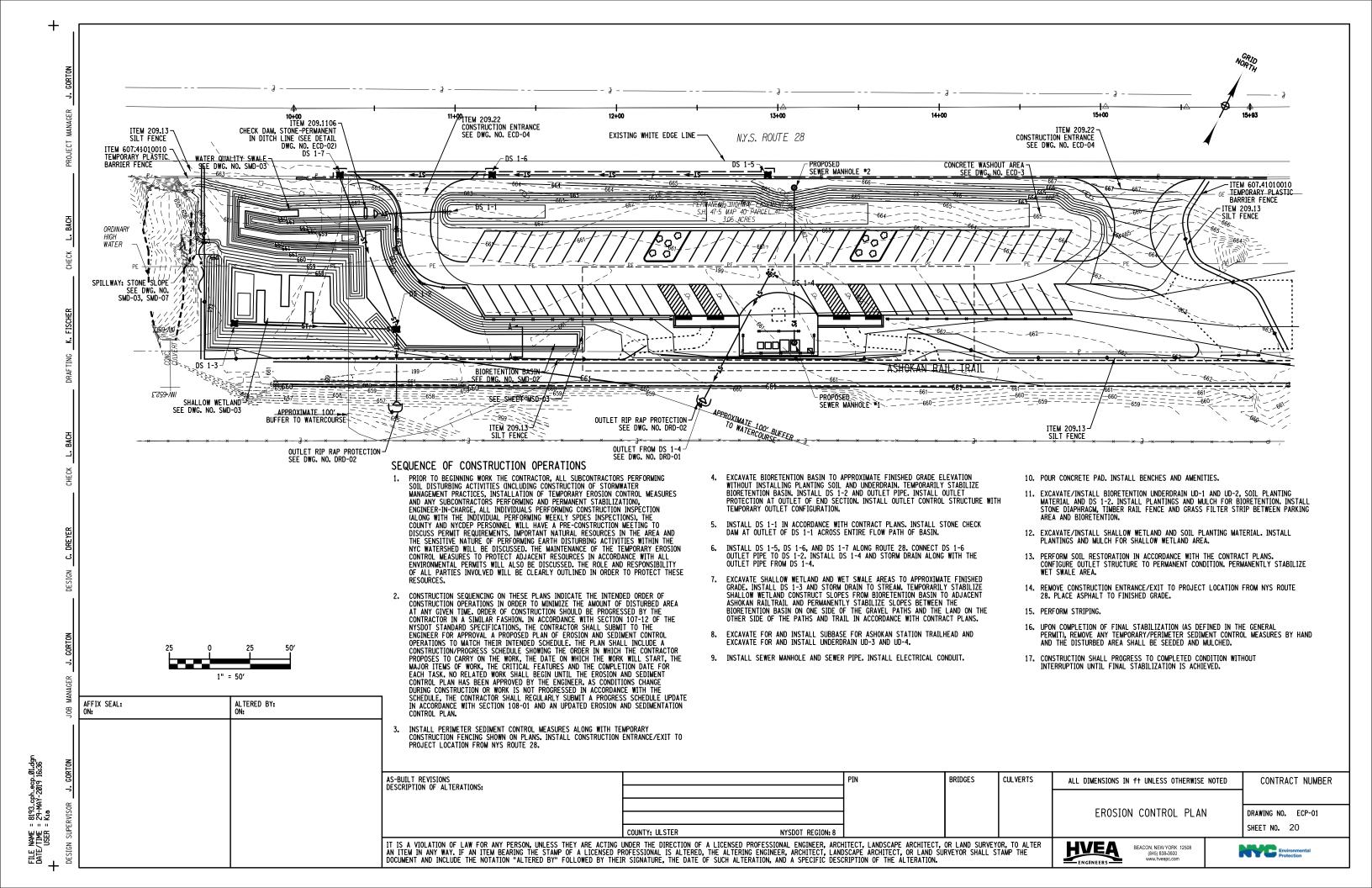


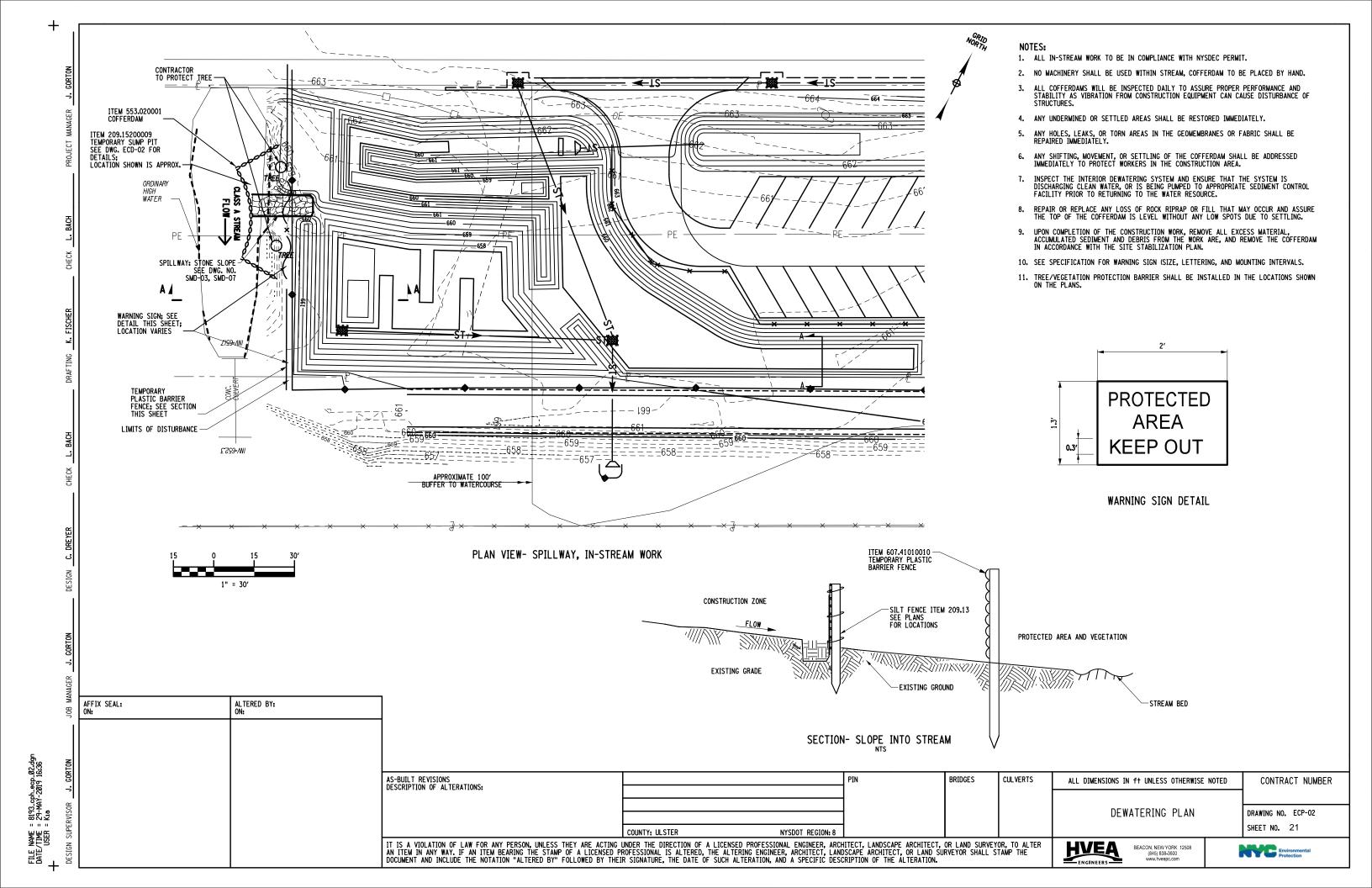
DRAWING NO. ECD-02 SHEET NO. 17

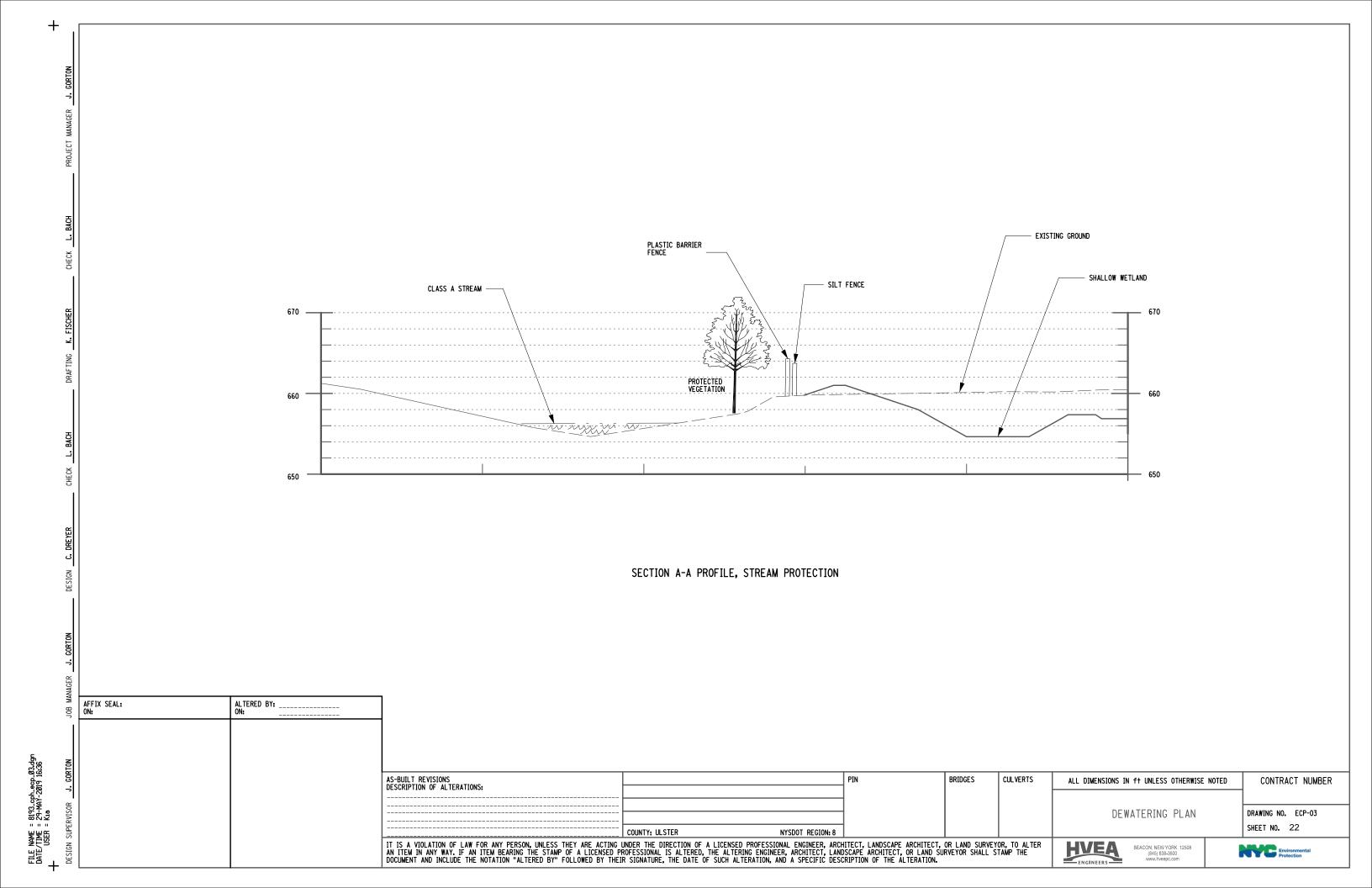
CONTRACT NUMBER

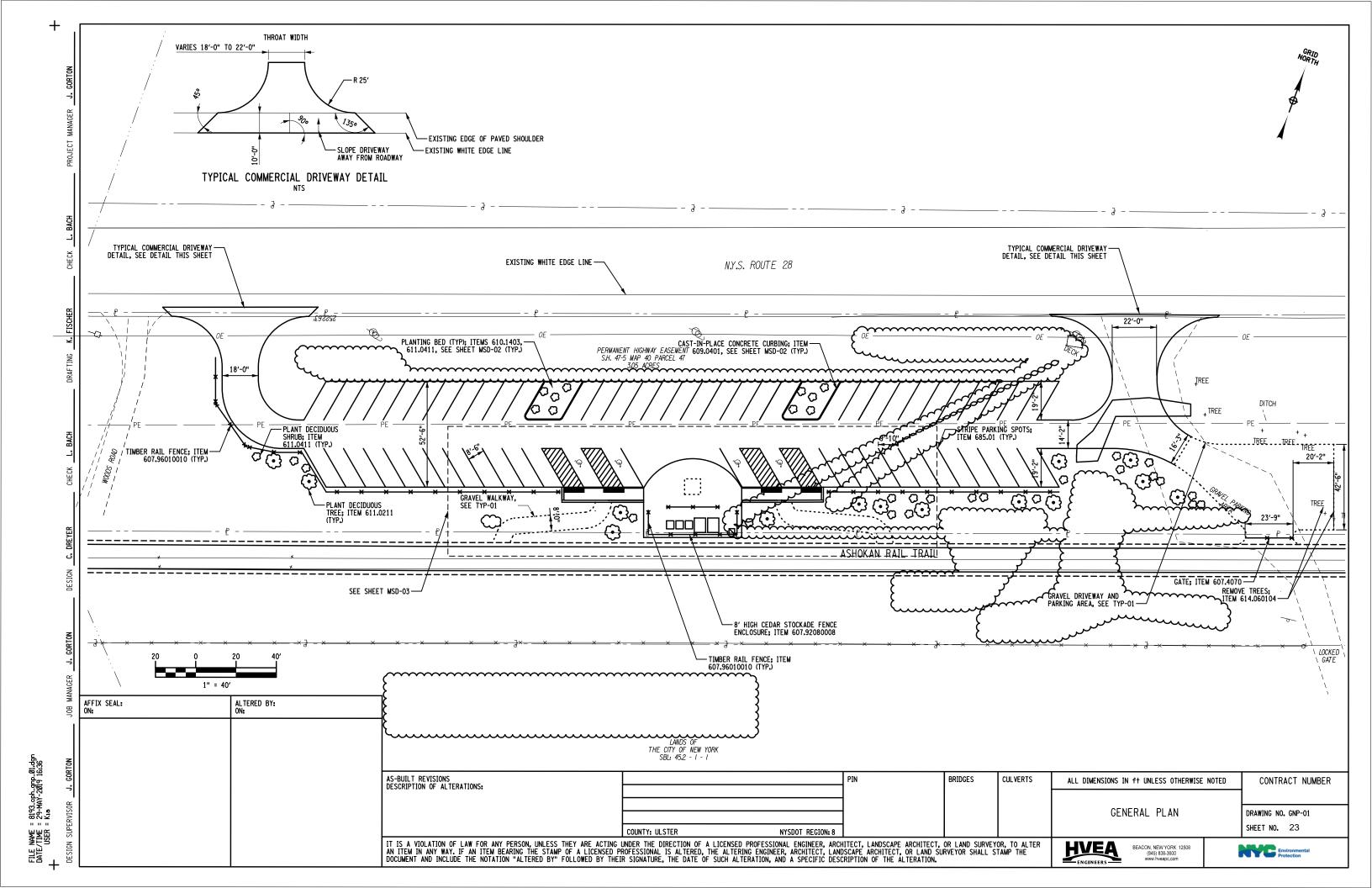


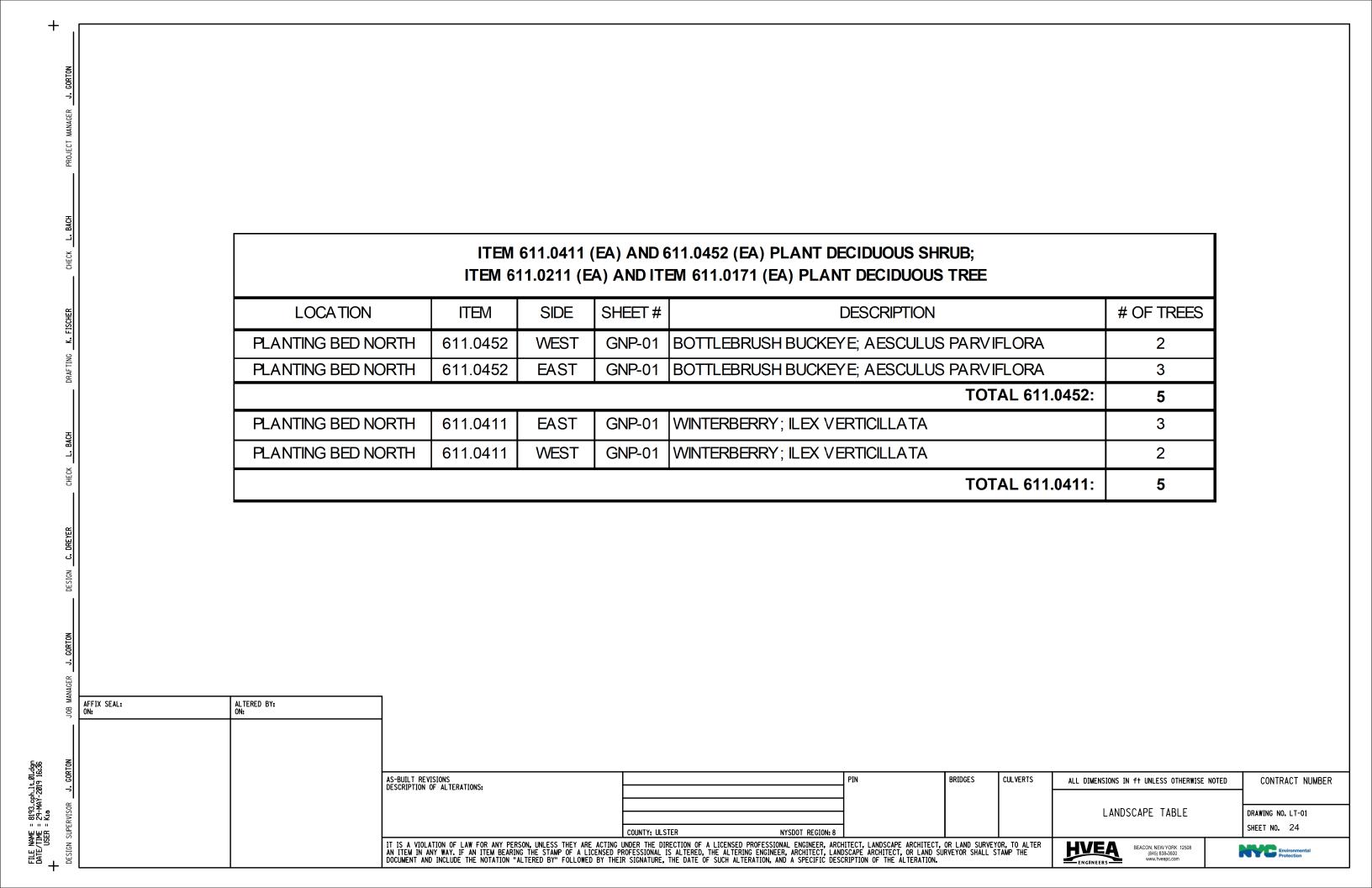












SIGN INSTALLATION TABLE PAYMENT AREA DESIGNATION SIZE (SEE NOTE 3) & COLOR LOCATION TEXT ITEM AREA TOTAL PAYMENT (SEE NOTE 2) (SEE NOTE 3) **AREA** 4.0 SF RS-068 1-1; 1-2; 1-3; 1-645.5102 (BROWN) 4.0 SF 16.0 SF 4 21"x15" 2.2 SF M6-1R 645.5102 1-1 (BROWN) 2.2 SF 2.2 SF 2.2 SF 21"x15" M6-1L 1-2 645.5102 (BROWN) 2.2 SF 2.2 SF 2.2 SF 21"x15" M5-1L 1-3 645.5102 (BROWN) 2.2 SF 2.2 SF 21"x15" 2.2 SF M5-1R 1-4 645.5102 (BROWN) 2.2 SF 2.2 SF 30" X 30" 6.3 SF R5-1 1-5; 1-15 645.5202 6.3 SF 18.9 SF 30" X 30" 6.3 SF 645.5202 R1-1 1-25 5.0 SF 6.3 SF

		SIGN INSTALLATION	N TABLE		
DESIGNATION & COLOR	LOCATION	TEXT	ITEM	SIZE	PAYMENT AREA (SEE NOTE 3)
(SEE NOTE 2)	LOCATION	IEAI	ITEIVI	AREA (SEE NOTE 3)	TOTAL PAYMENT AREA
NYP1-7	1-6; 1-8; 1-11;	NO STOPPING	645.5102	12" x 18"	1.5 SF
	1-13	TIME		1.5 SF	6.0 SF
R7-8	1-7; 1-9; 1-10;	RESERVED PARKING	645.5102	12" x 18"	1.5 SF
	1-12			1.5 SF	6.0 SF
R7-8P	1-7; 1-9; 1-10; 1-12	VAN ACCESSIBLE	645.5102	18" x 9"	1.2 SF
	1-12			1.2 SF	4.8 SF
R6-1L	1-14; 1-15	ONE WAY	645.5102	36" X 12"	3.0 SF
	2	SHE WAT		3.0 SF	6.0 SF
R6-1R	1-14; 1-15	ONE WAY	645.5102	36" X 12"	3.0 SF
	2	ONE WAT		3.0 SF	6.0 SF
CUSTOM	1-16; 1-17; 1- 18; 1-19; 1-20	NYCDEP PERMIT HOLDER PARKING		SIGN TO BE F	PROVIDED BY NYCDEP
CUSTOM	1-21, 1-22; 1-23	Recreation by Permit		SIGN TO BE F	PROVIDED BY NYCDEP
CUSTOM	1-24	Gate E-5		SIGN TO BE F	PROVIDED BY NYCDEP

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

SIGN TABLE

BEACON, NEW YORK 12508 (845) 838-3600 www.hveapc.com CONTRACT NUMBER

DRAWING NO. SGT-01 SHEET NO. 25

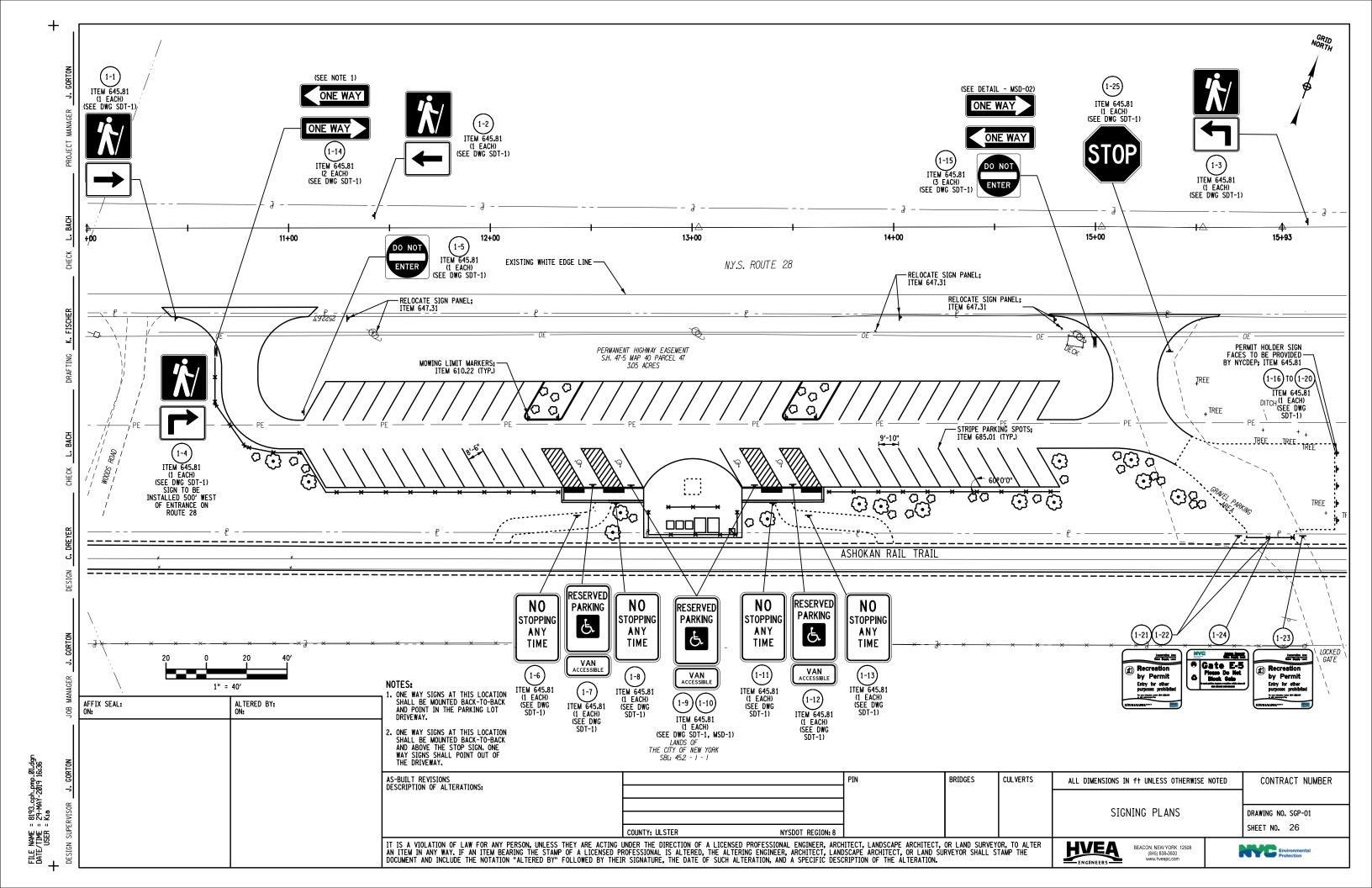
NOTES.

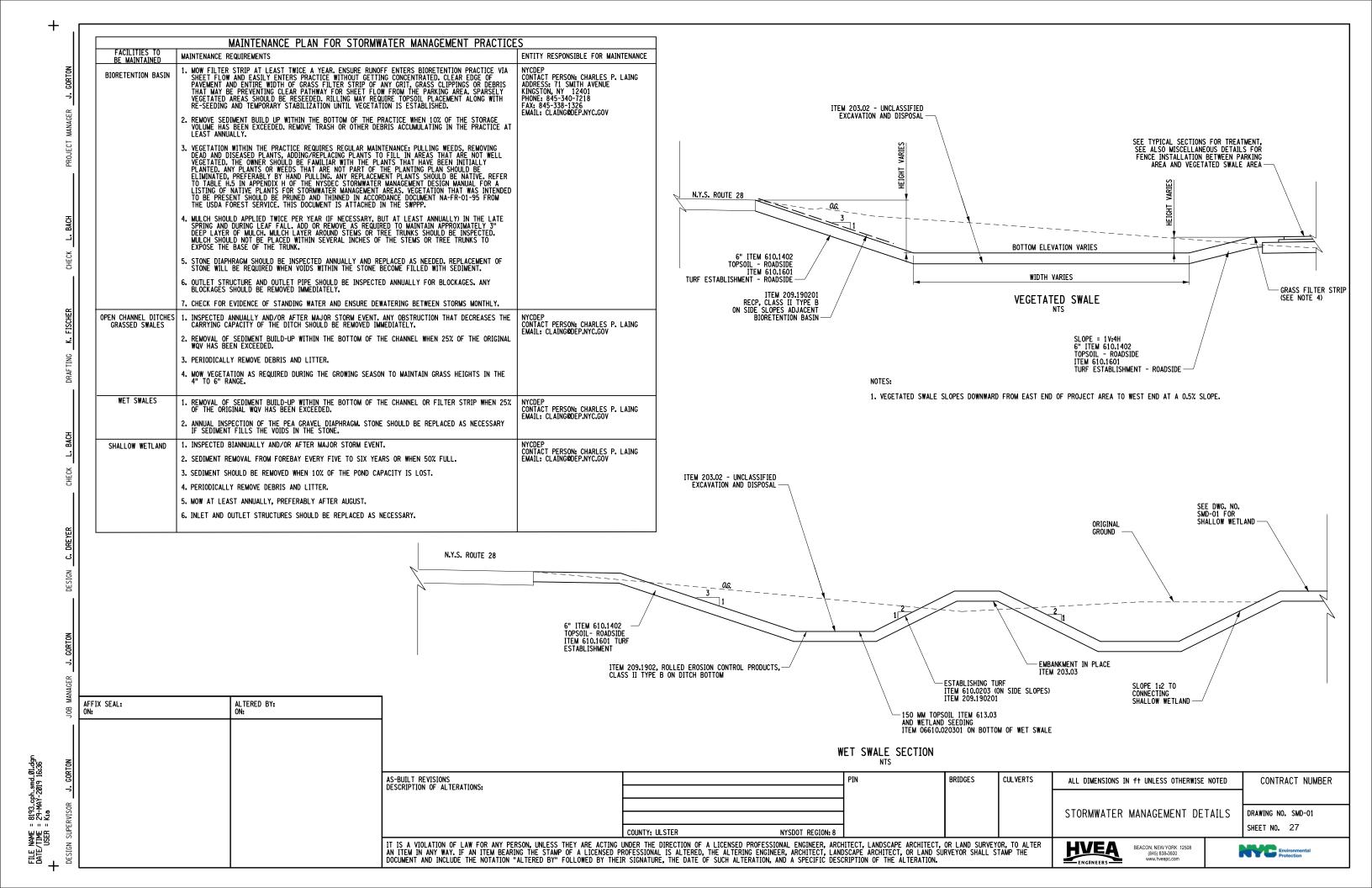
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:

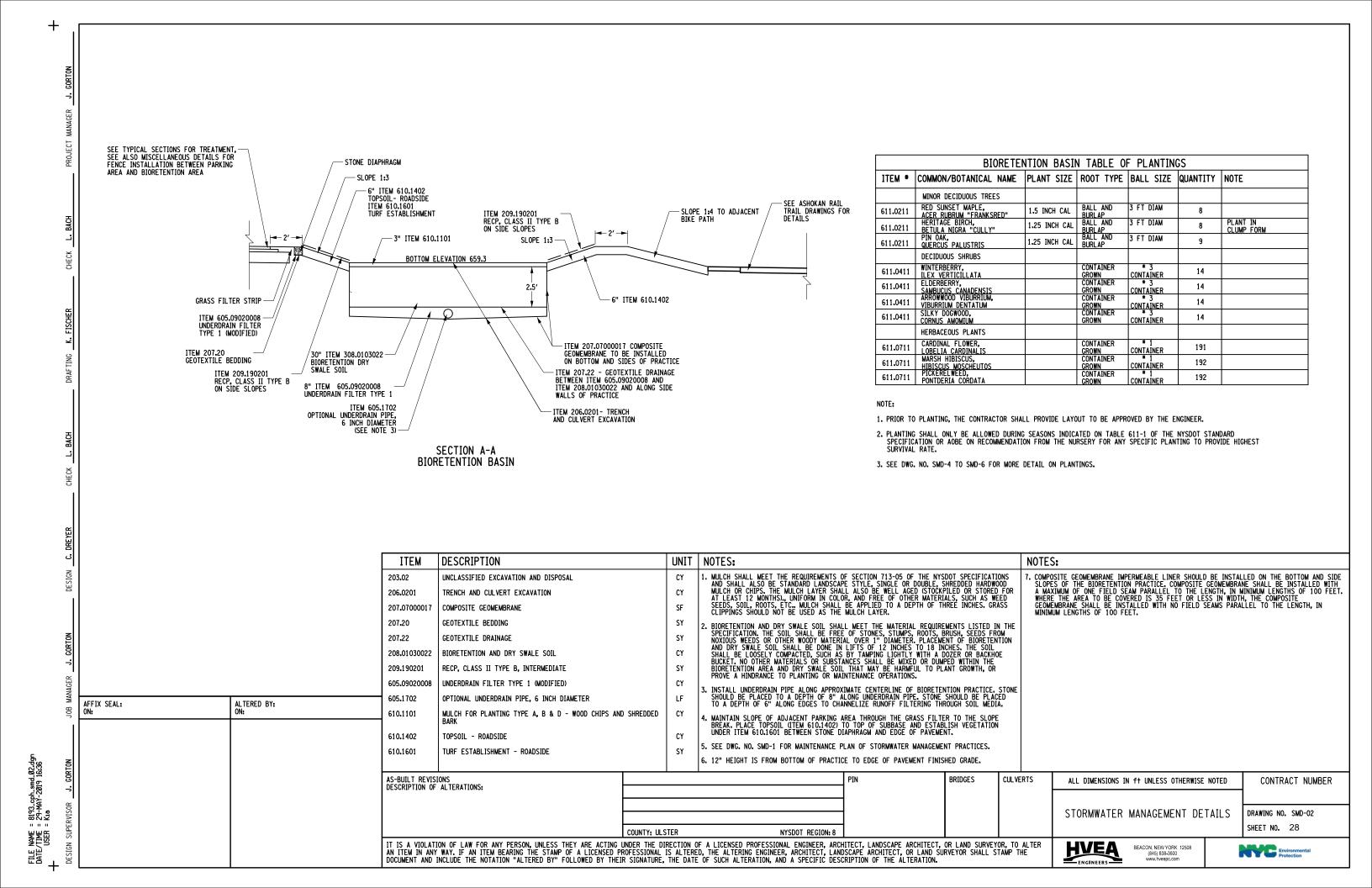
- 1. SIGN LOCATIONS AS SHOWN ARE APPROXIMATE, THE CONTRACTOR SHALL INSTALL NEW SIGNS AND RELOCATE EXISTING SIGNS IN ACCORDANCE WITH THE MUTCD AND NYS SIPPLEMENT.
- 2. THE COLOR IS ONLY SHOWN WHEN THERE IS AN OPTION THAT MUST BE SPECIFIED.
- 3. THE AREA AND PAYMENT AREA FOR SIGNS ARE FROM THE APPLICABLE STANDARD SHEETS OR SIGN FACE LAYOUT.
- 4. FOR SIGNS THAT ARE TO BE PROVIDED BY NYCDEP, THE CONTRACTOR SHALL COORDINATE WITH NYCDEP FOR PRODUCTION OF SIGN FACES.

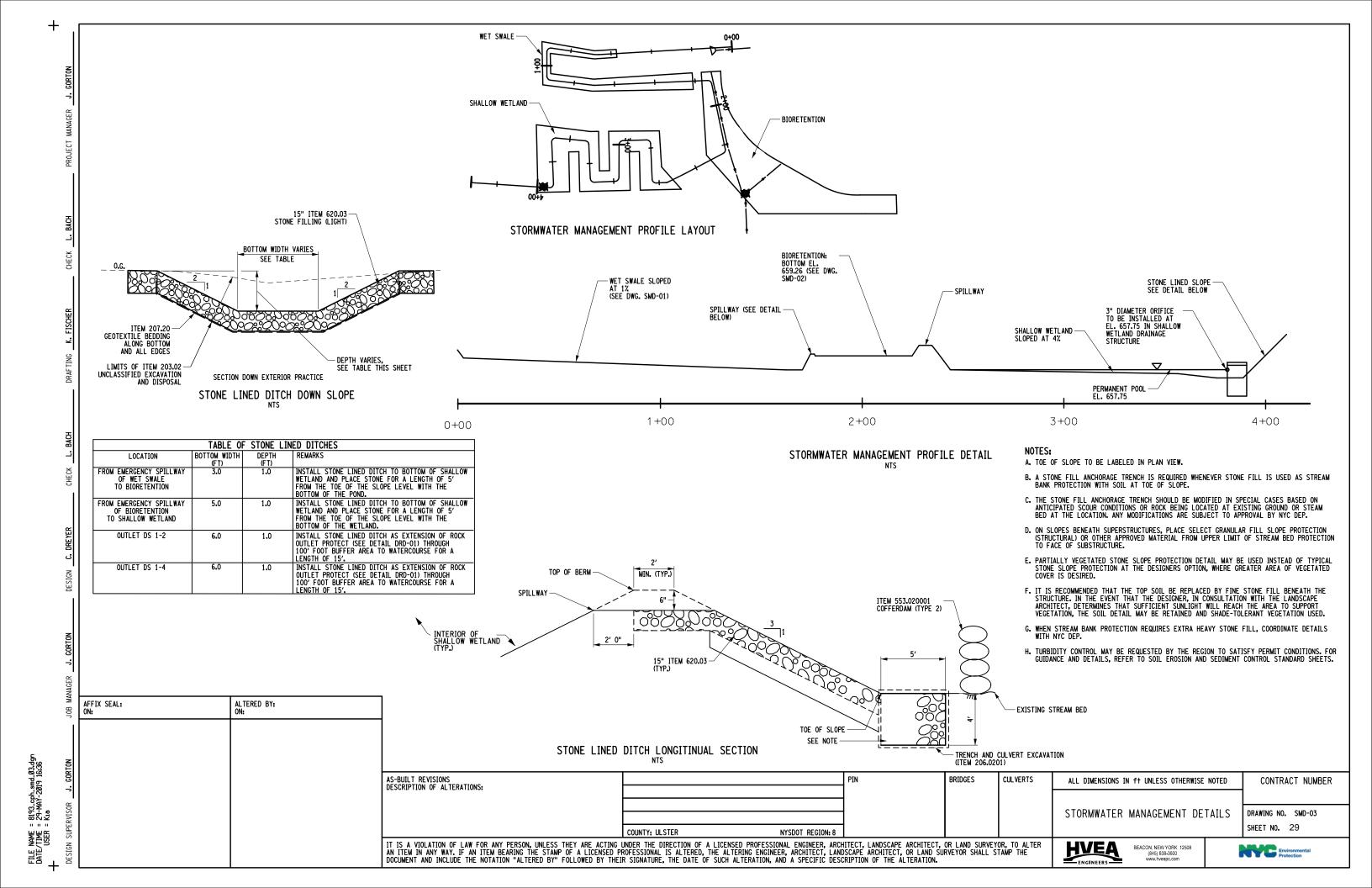
	COUNTY: ULSTER	NYSDOT REGION: 8		
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PE		A LICENSED PROFESSIONAL ENGINEER, ARTHE ALTERING ENGINEER, ARCHITECT, LA		OR, TO ALTER
DOCIMENT AND INCLUDE THE MOTATION WALTEDED DV ENLIGHED BY THEI			MALION SHALL ST	AMI IIIL

AFFIX SEAL: ON: ALTERED BY: ON:









LANDSCAPE GENERAL NOTES:

I. COMMERCIAL SEED MIX CONTAINING DESIRED SEED SPECIES MAY BE SUBSTITUTED.

SEED MAY ALSO BE ADDED TO A COMMERCIAL MIX, BY THE PACKAGER, TO ENSURE
THE INCLUSION OF ALL DESIRED SPECIES. SOME MIXES MAY BE APPROVED THAT OMIT
A SMALL NUMBER OF SPECIES. HOWEVER, IF ANY SUBSTITUTIONS OR VARIATIONS ARE DESIRED,
ALL MIXES MUST BE PRESENTED TO THE LANDSCAPE ARCHITECT, PRIOR TO APPLICATION, FOR
APPROVAL OF PERCENTAGES OF THE DIFFERENT SPECIES. VERIFY SEED QUANTITY WITH

- 2. GROUND PREPARATION FOR ESTABLISHING TURF WILL BE METHOD 1 UNLESS OTHERWISE SPECIFIED.
- 3. FERTILIZER FOR ESTABLISHING TURF WILL BE 10-0-4 UNLESS OTHERWISE SPECIFIED.

FLANTING OF INCES: 5. PLANTING BALL - ON B&B MATERIAL, BURLAP AND WIRE BASKET OR OTHER CONTAINER SHALL BE REMOVED FROM THE UPPER HALF OF THE ROOT BALL AND DISPOSED OF.

- 6. HEIGHT OF PLANTING SAUCER SHALL BE 3".
- 7. MULCH SHALL BE A MAXIMUM OF 3" DEEP AND TAPERED DOWN TO LEAVE THE ROOT FLARE EXPOSED. WHEN PLANTING ON SLOPES, DOWNHILL SIDE MUST BE STABILIZED APPROPRIATELY OR SEEDING ON DOWNHILL SIDE MAY BE SPECIFIED.

8. MATERIALS FOR PROTECTION OF PLANTS SHALL BE A COMMERCIALLY AVAILABLE PRODUCT OR SYSTEM FOR SUPPORTING OF TREES.

- 9. ALL TAGS, LABELS, ETC. SHALL BE REMOVED FROM THE PLANTS.
- 10. THE ROOT FLARE SHALL BE VISIBLE AND LEVEL WITH SURROUNDING SOIL.
- 11. TREES AND SHRUBS SHALL BE PLANTED IN THE FOLLOWING APPROPRIATE SEASONS: DECIDUOUS= MARCH 1 TO APRIL 30 EVERGREEN= MARCH 1 TO APRIL 30

EVERGREEN= AUGUST 15 TO SEPTEMBER 30

12. ALL BALLED AND BURLAPPED TRESS, REQUIRING THE USE OF MACHINERY FOR HANDLING, SHALL BE LIFTED FROM THE BOTTOM OF THE BALL ONLY. STRAPS OR ROPES ARE NOT TO BE ATTACHED TO THE TIED BALL OR WIRED BASKET FOR LIFTING. ANY TWINE AROUND THE TRUNK OF THE TREE AT THE TOP OF THE BALL IS TO BE BUT AFTER STABILIZING THE BALL WITH BACKFILLING. CONTRACTOR IS TO LEVER REMOVED WIRE BASKET TOPS NEXT TO EACH TREE THAT HAS DEED IN ANTED INTIL INSPICTOR HAS ADPROVED INSTALLATION HAS BEEN PLANTED UNTIL INSPECTOR HAS APPROVED INSTALLATION.

13. MULCH SHALL BE PLACED AT A DEPTH OF 3 INCHES IN PLANT PITS AND ON PLANTING BEDS WHERE SPECIFIED ON CONTRACT PLANS.

14. ALL PLANT MATERIAL MUST BE INSPECTED FOR VARIETY, SIZE, AND QUALITY PRIOR TO PLANTING, PRE-TAGGING AT THE NURSERY IS AT THE STATES OPTION. WHEN TAGGING IS NOT FEASIBLE, PLANTS DELIVERED FOR ON SITE INSPECTION SHALL BE ARRANGED SO THAT TRUNKS, TOPS AND BRANCHING PATTERN CAN BE INSPECTED AND MEASUREMENTS CAN BE CONVENIENTLY MADE. A 2 BUSINESS DAY NOTICE IS REQUIRED PRIOR TO DELIVERIES TO MAKE ARRANGEMENTS FOR PROPER INSPECTION.

15. TREES SHALL BE STREET TREE QUALITY. THE TREES SHALL HAVE STRAIGHT TRUNKS WITH A MINIMUM DEVIATION FORM THE VERTICAL WHICH IS CHARACTERISTIC OF THE SPECIES, WITH WELL BRANCHED, SYMMETRICAL TOPS, LOWER MOST BRANCHES SHALL BE TRIMMED TO A HEIGHT OF 6 INCHES.

- 16. CONTAINER GROWN MATERIAL SHALL MEET THE FOLLOWING:

 A. CONTAINERS MAY BE USED FOR THIS ITEM. THE SIZE OF THE ROOT BALL FOR PLANTS GROWN IN CONTAINERS MAY BE 25% LESS IN DIAMETER AND DEPTH THAN THAT SPECIFIED FOR B&B PLANTS.

 DIMENSIONS MAY VARY PROVIDING EQUIVALENT ROOT VOLUME IS MAINTAINED.
 - DIMENSIONS MAY VARIT PROVIDING EQUIVALENT ROOT VALUEDE 13 MAINTIANTED.
 IN ORDER TO DISKUPT CIRCLING ROOTS, RESULTING FROM PLANTS BEING CONTAINER GROWN, ALL CONTAINER GROWN MATERIAL SHALL HAVE THEIR ROOT BALLS CUT, VERTICALLY, APPROXIMATELY 3 INCHES DEEP, IN 4 PLACES AT 90 DEGREE INTERVALS, EVENLY SPACED.

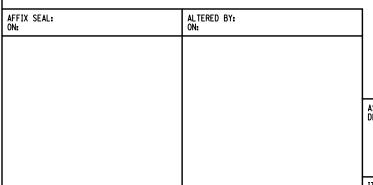
17. FOR THE FALL PLANTING SEASON, THE FOLLOWING PLANTS SHALL HAVE A MINIMUM 4 INCH INCREASE IN BALL SIZE, AND SHALL BE HARDENED OFF AND DORMANT: QUERCUS VARIETIES.

18. ALL PLANT MATERIAL (TO INCLUDE TREES, SHRUBS, PERENNIALS, GROUNDCOVERS, AND VINES) SHALL BE CHARANTEED BY THE CONTRACTOR TO BE IN GOOD, HEALTHY AND FLOURISHING CONDITION FOR A PERIOD OF ONE

19. CONTAINER GROWN PLANTS SHALL NOT BE POT-BOUND. PLANTS WITH NUMEROUS ROOTS ENCIRCLING THE PERIMETER OF THE CONTAINER WILL BE REJECTED.

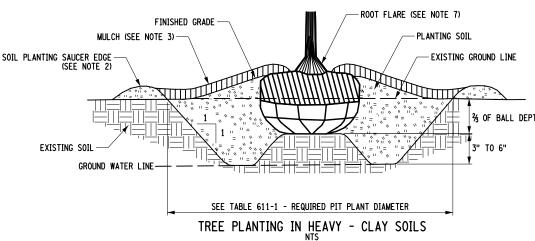
20. SPECIFIED PLANT SIZES ARE MINIMUMS. LARGER SIZES ARE ACCEPTABLE AS LONG AS THE BALL OR POT SIZE MEETS THE MINIMUM SIZE FOR THE PLANT SIZE AS RECOMMENDED IN THE CURRENT EDITION OF AMERICAN STANDARD OF NURSERY STOCK.

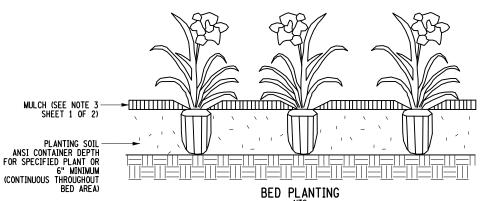
- 21. NO FERTILIZER WILL BE ADDED TO PLANTING SOIL FOR FALL PLANTINGS.
- 22. MINIMUM CONTAINER VOLUMES SHALL BE AS DEFINED BY THE CURRENT EDITION OF AMERICAN STANDARD FOR NURSERY STOCK.

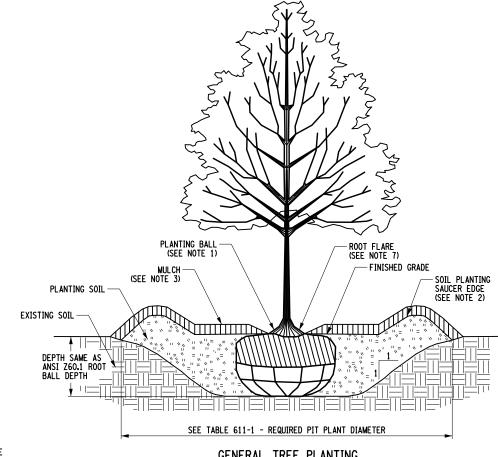


TYP. CURB TREE GRATE / HARDSCAPE / SIDEWALK OR MULCH / TURF / HARDCOVER ADJACENT PAVEMENT ROOT FLARE (SEE NOTE 7) PLANTING SOIL AS SPECIFIED EXISTING SOIL 2X BALL DIAMETER MINIMUM

PLANTING NEXT TO PAVEMENT OR CURB

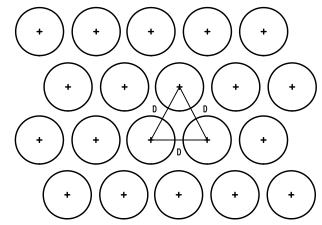






GENERAL TREE PLANTING

REQUIRED PLANT PIT DIAMETER				
ROOT SPREAD / ROOT BALL DIAMETER	PLANT PIT DIAMETER			
UNDER 2'-0"	3X THE ROOT SPREAD OR ROOT BALL DIAMETER			
FROM 2'-0" TO 4'-0"	2.5X THE ROOT SPREAD OR ROOT BALL DIAMETER			
OVER 4'-0"	2X THE ROOT SPREAD OR ROOT BALL DIAMETER			



D = DIMENSION OF SPECIFIED PLANT SPACING (SHRUB OR GROUND COVER) TYPICAL BED PLANT SPACING

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

STORMWATER MANAGEMENT DETAILS

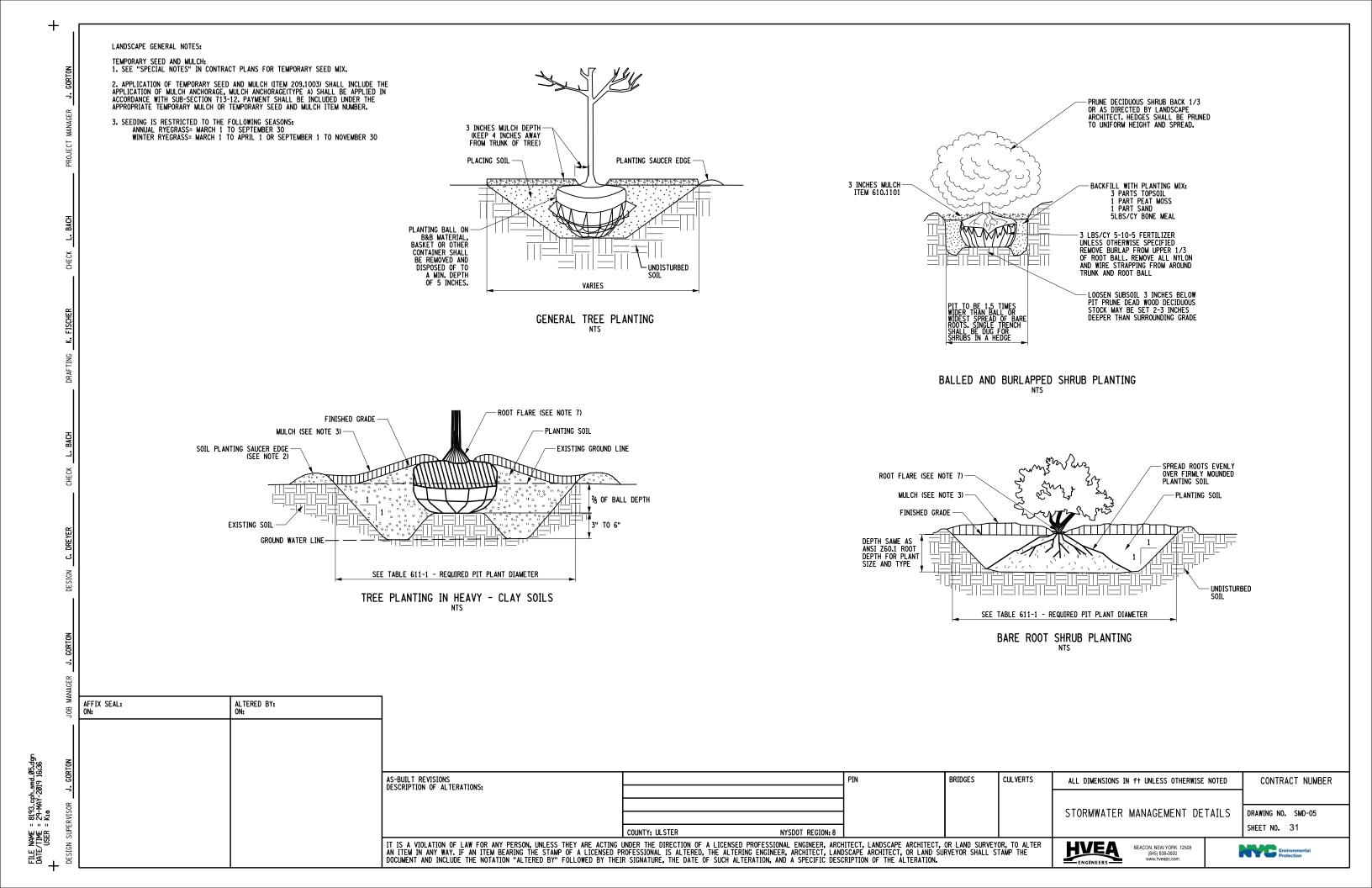
DRAWING NO. SMD-04 SHEET NO. 30

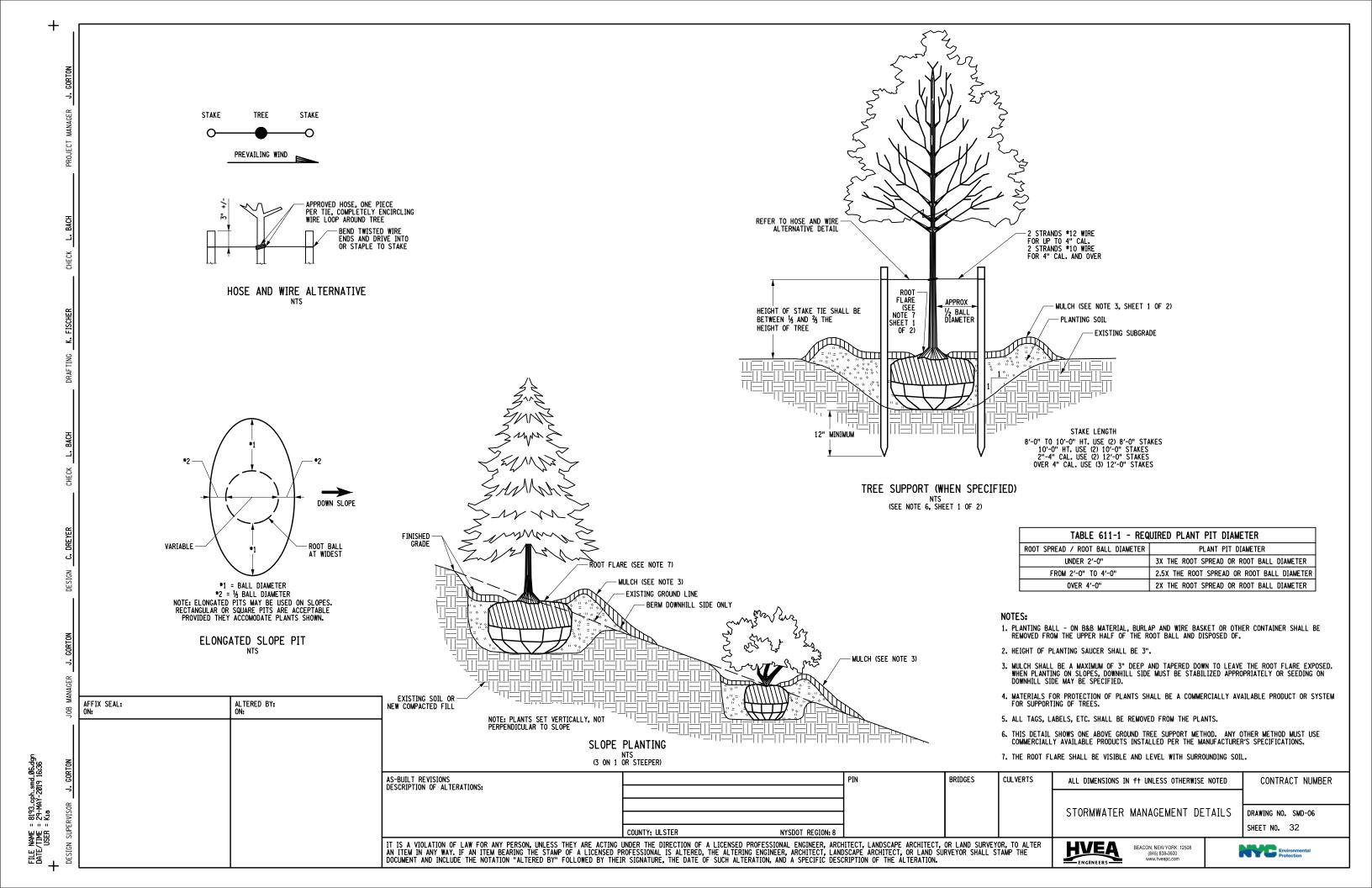
CONTRACT NUMBER

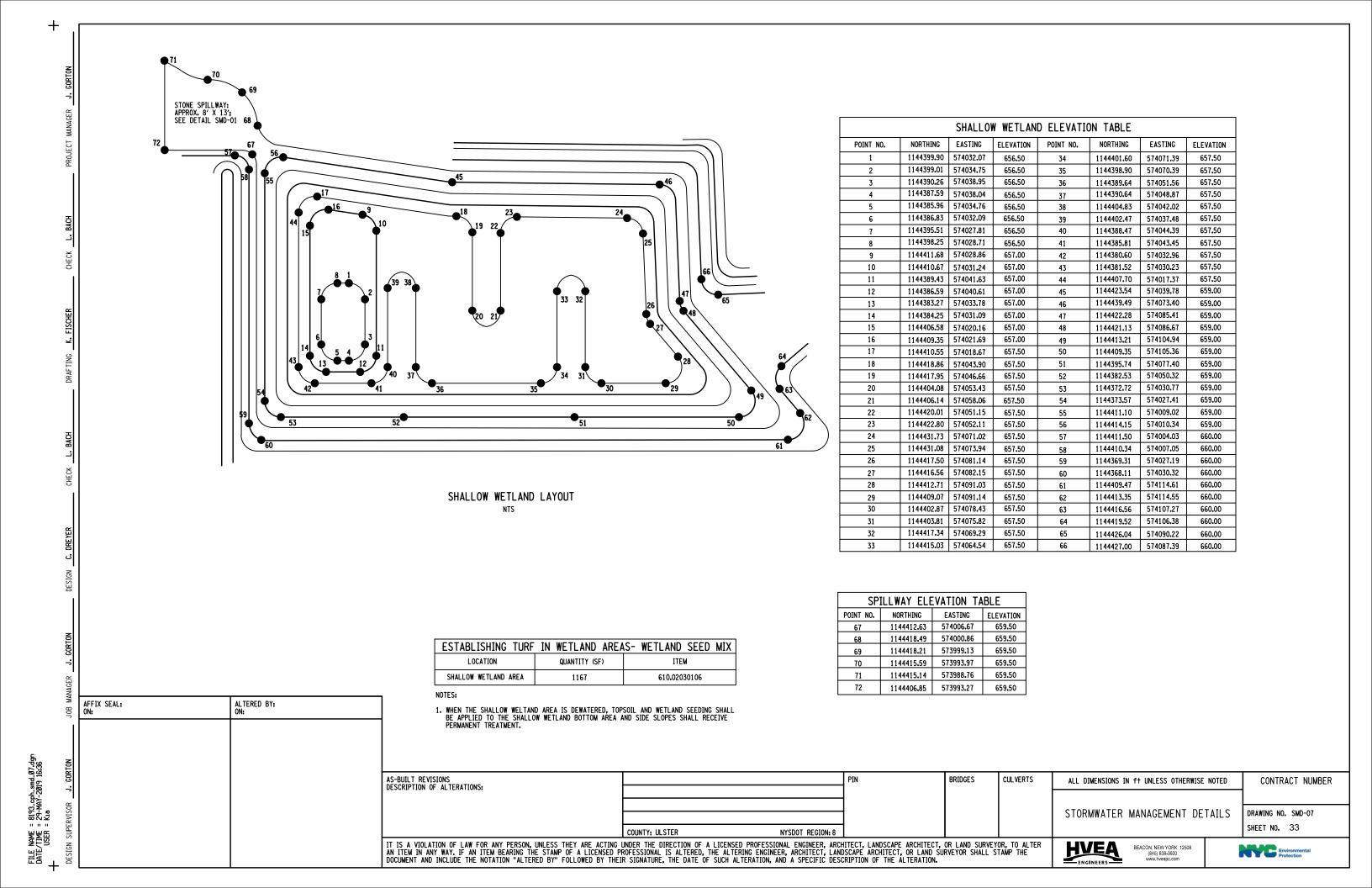
BEACON, NEW YORK 12508 (845) 838-3600 www.hveapc.com

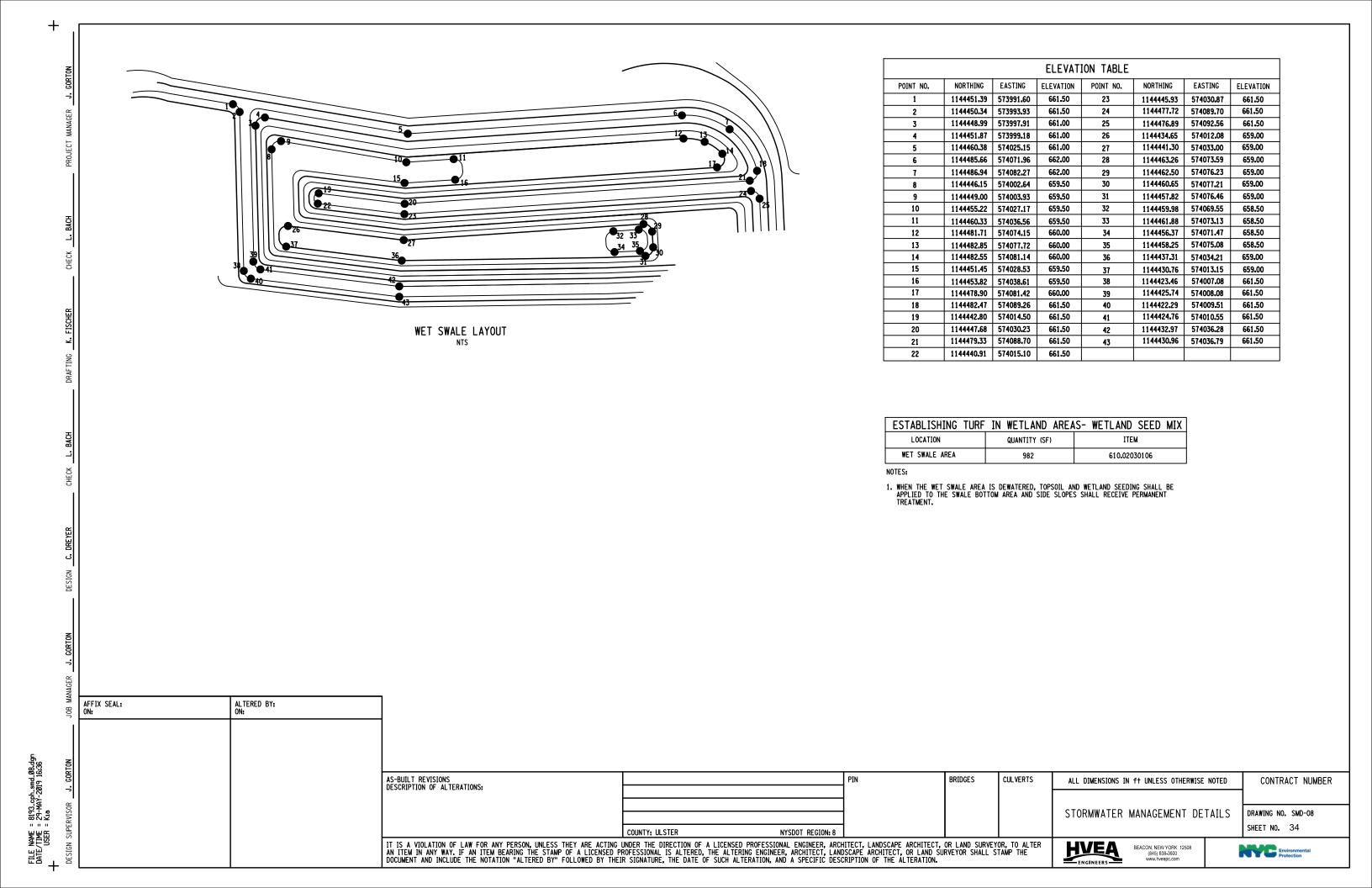


5		BED AREA)	BED PLA NTS	NTING			
3		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:			PIN	BRIDGES	CULVERTS
EL VISON							
Š			COUNTY: ULSTER	NYSDOT REGION: 8			
DE STON		IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED P DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEI	ROFESSIONAL IS ALTERED. THE A	LTERING ENGINEER. ARCHITECT. LAND	SCAPE ARCHITECT. OR LAND SU	OR LAND SURVEY RVEYOR SHALL S	OR, TO ALTER FAMP THE





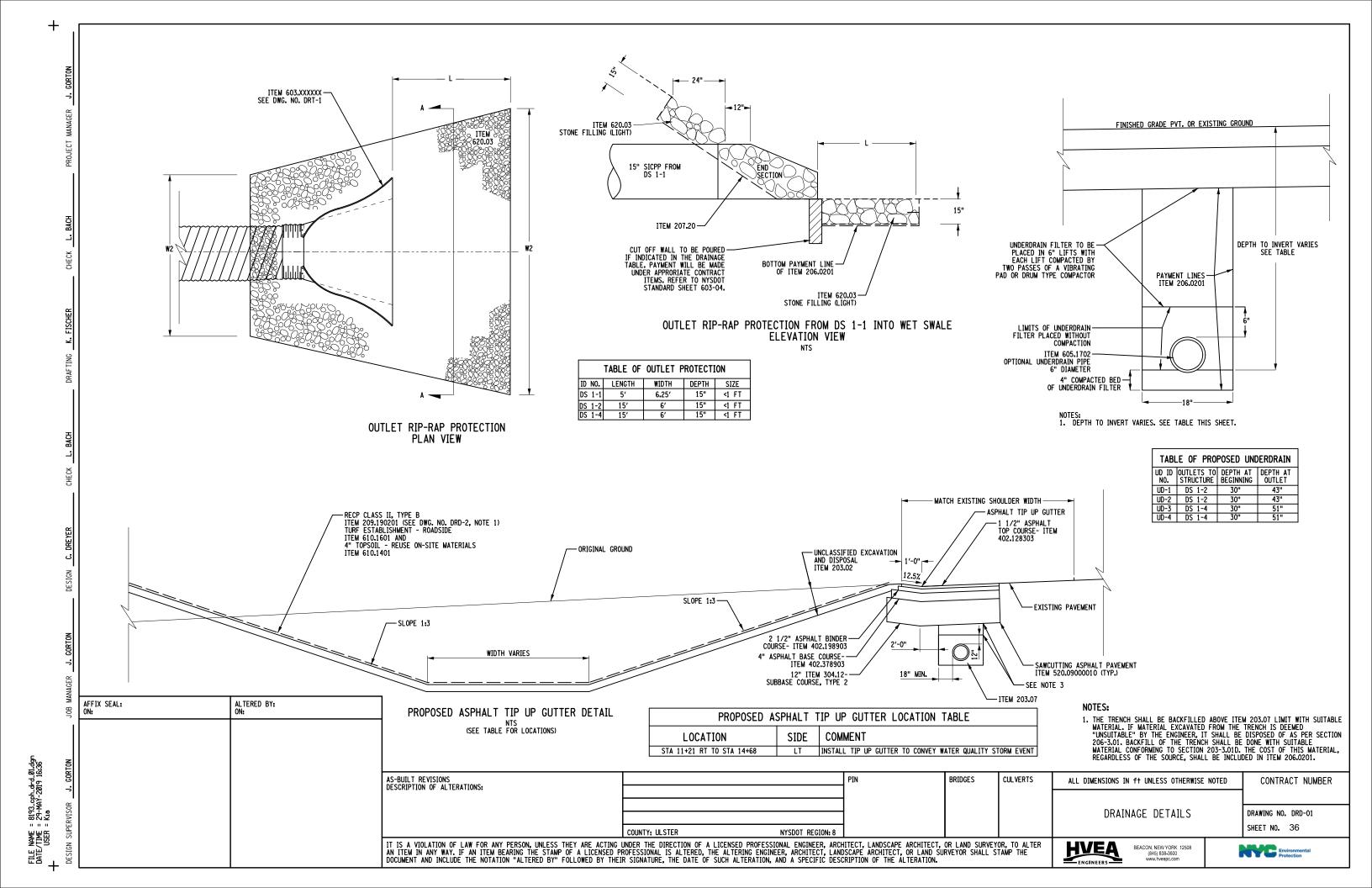


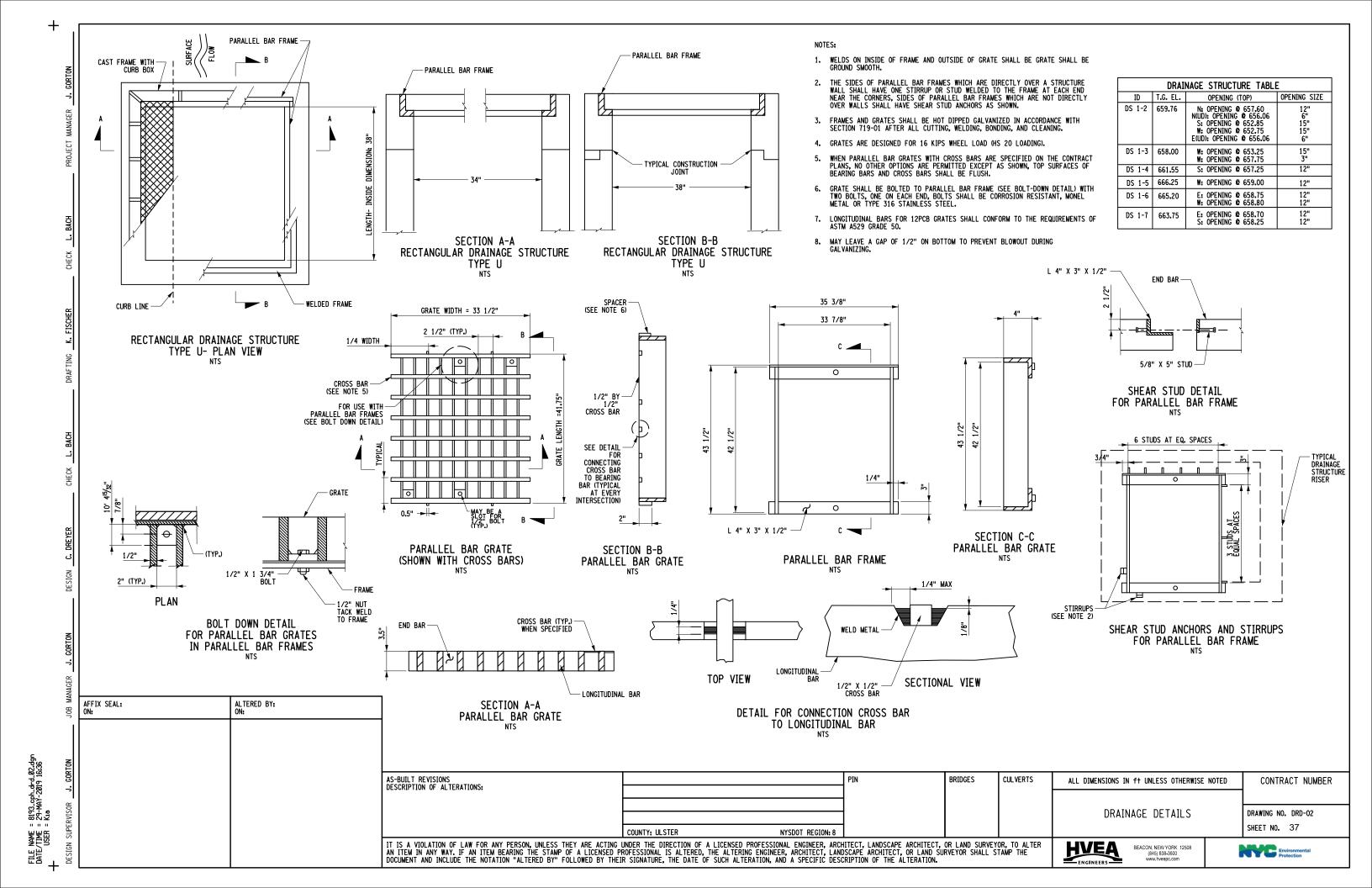


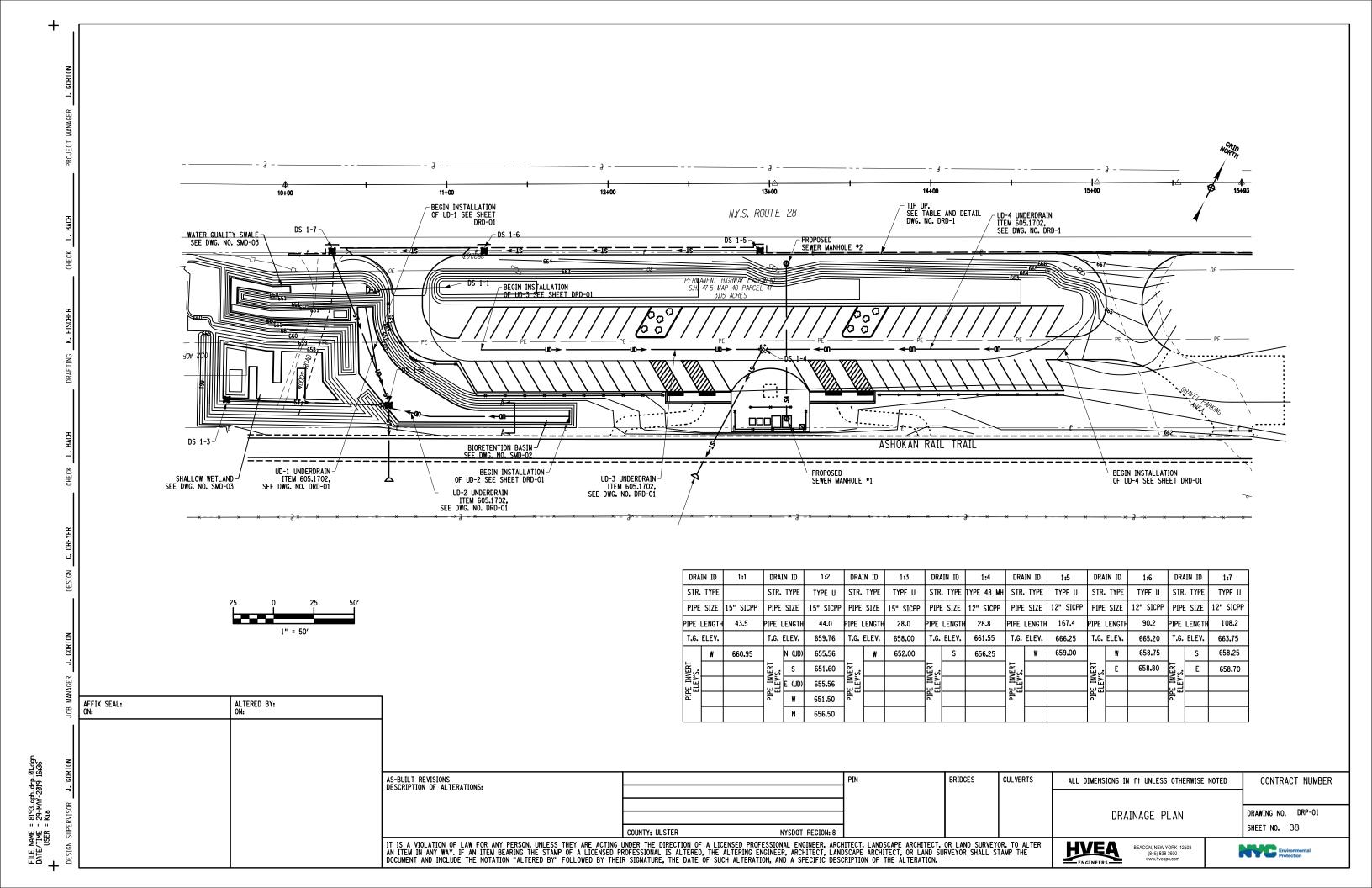
29-MAY-2019 16:36 Kia	J. GORTON
DATE/TIME = 29-MA) USER = K13	DESIGN SUPERVISOR

	DRAINAGE TABLE										
ID.	LOCATION (COORDINATES/		T.G.	FRAME	СТВ	PIPE INVERT					
NO. (DS/DP)		, OFFSET)	ELEV.		TYPE	I	OUTLET	PROPOSED WORK			
	NORTHING	EASTING									
1-1	1144503.26	574122.15				660.95	660.85	INSTALL 43.5 FT OF 15" SICPP WITH GALVANIZED STEEL END SECTION AND CUT OFF WALL FOR END SECTION AND OUTLET TO WET SWALE (OUTLET INVERT ELEVATION =660.73, SEE DWG. NO. DRD-01). BACKFILL WITH SELECT GRANULAR FILL.			
1-2	1144422.61	574124.79	659.76	PARALLEL BAR FRAME 12 PCB	U	1. 655.56 2. 655.66 3. 651.50-W 4. 656.60-N SEE NOTE 1 BELOW	656.20	INSTALL RECTANGULAR TYPE U STRUCTURE WITH PARALLEL BAR GRATE, INSTALL 43.4 FT OF 15" SICPP AND CONNECT TO DS 1-3. CONNECT BIORETENTION UNDERDRAIN TO STRUCTURE. BACKFILL WITH SELECT GRANULAR FILL.			
1-3	1144383.73	574032.63	657.80	PARALLEL BAR FRAME 12 PCB	U	652.00	651.50	INSTALL RECTANGULAR TYPE U STRUCTURE WITH PARALLEL BAR GRATE. INSTALL 28.0 FT OF 15" SICPP WITH GALVANIZED STEEL END SECTION AND CUT OFF WALL FOR END SECTION (OUTLET INVERT ELEVATION = 653.10, SEE DWG. NO. DRD-01). BACKFILL WITH SELECT GRANULAR FILL.			
1-4	1144558.38	574315.00	661.55	GRATE	MH 48	1. 657.55 2. 657.55 SEE NOTE 2 BELOW		INSTALL ROUND MANHOLE TYPE 48 WITH GRATE. INSTALL 87.0 FT OF 12" SICPP WITH GALVANIZED STEEL END SECTION AND CUT OFF WALL FOR END SECTION (OUTLET ELEVATION = 656.00, SEE DWG. NO. DRD-01). CONNECT UD-3 AND UD-4 TO STRUCTURE (SEE DWG. NO. DRD-01). BACKFILL WITH SELECT GRANULAR FILL.			
1-5	1144622.41	574281.00	666.25	PARALLEL BAR FRAME 12 PCB	U	659.00	658.80	INSTALL RECTANGULAR TYPE U STRUCTURE WITH PARALLEL BAR GRATE. INSTALL 167.4 FT OF 12" SICPP BETWEEN DS 1-5 AND DS 1-6. BACKFILL WITH SELECT GRANULAR FILL.			
1-6	1144544.27	574129.05	665.20	PARALLEL BAR FRAME 12 PCB	U	658.75	658.70	INSTALL RECTANGULAR TYPE U STRUCTURE WITH PARALLEL BAR GRATE. INSTALL 90.2 FT OF 12" SICPP BETWEEN DS 1-6 AND DS 1-7. BACKFILL WITH SELECT GRANULAR FILL.			
1-7	1144501.05	574045.09	663.75	PARALLEL BAR FRAME 12 PCB	U	658.25	657.80	INSTALL RECTANGULAR TYPE U STRUCTURE WITH PARALLEL BAR GRATE. INSTALL 108.2 FT OF 12" SICPP BETWEEN DS 1-7 AND DS 1-2. BACKFILL WITH SELECT GRANULAR FILL.			

		ITEM	DESCRIPTION	Į	UNIT	ITEM	DESCRIPTION		UNIT	NOTES:		
		203.07	SELECT GRANULAR FILL		CY	604.302192	RECTANGULAR DRAINAGE ST	RUCTURE TYPE U FOR PARALLEL BAR #	12 LF	1. ELEVATI	ION (1) IS INVERT ELEVATION OF UNDERDRAIN FROM THE ELEVATION OF UNDERDRAIN FROM THE EAST.	IORTH. ELEVATION (2) IS
		206.0201	TRENCH AND CULVERT EXCAVATION		CY	604.4048	ROUND PRECAST CONCRETE	MANHOLE TYPE 48	LF			
		206.05	TEST PIT EXCAVATION		EA	620.03	STONE FILLING (LIGHT)		CY	ELEVATI	ION (1) IS INVERT ELEVATION OF UNDERDRAIN FROM THE ION OF UNDERDRAIN FROM THE WEST.	ASI. ELEVATION (2) IS INVERT
		207.20	GEOTEXTILE BEDDING		SY	655.0903		CB & PARALLEL BAR GRATE 12 PCB	EA			
		552.17	SHIELDS AND SHORING		SF	655,1201	MANHOLE FRAME AND GRATE		FA			
		555.0105	CONCRETE FOR STRUCTURES, CLASS A		CY	655.1201	MANITOLE TRAME AND GRATE	•	[
		603.171116	GALVANIZED STEEL END SECTIONS - PIPE (2-2/3" X 1/2" CORRUGATIONS) 15 INCH DIAMETER, 16 GAUGE (FOR 12" SI		EA							
FIX SEAL: ALTERED BY:		603.171216	GALVANIZED STEEL END SECTIONS - PIPE (2-2/3" X 1/2" CORRUGATIONS) 18 INCH DIAMETER, 16 GAUGE (FOR 15" SI		EA							
I SEAL!	ON:	603.9812	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND DRAIN 12 INCH DIAMETER	AND STORM	LF							
		603.9815	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND DRAIN 15 INCH DIAMETER	AND STORM	LF							
		AS-BUILT REVISI						PIN BRIDGE	s (CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
		DESCRIPTION OF ALTERATIONS:										-
			-								DRAINAGE TABLE	DRAWING NO. DRT-01
				COUNTY: ULSTE	ER		NYSDOT REGION: 8					SHEET NO. 35
		IT IS A VIOLATI AN ITEM IN ANY DOCUMENT AND I	ON OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UN WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PRO NCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR	NDER THE DIRE OFESSIONAL IS SIGNATURE, TH	CTION O ALTERE HE DATE	F A LICENSED PR D, THE ALTERING OF SUCH ALTER	OFESSIONAL ENGINEER, ARCH ENGINEER, ARCHITECT, LAND ATION, AND A SPECIFIC DESC	ITECT, LANDSCAPE ARCHITECT, OR LAND SCAPE ARCHITECT, OR LAND SURVEYOR RIPTION OF THE ALTERATION.	SURVEYOR SHALL STA	, TO ALTER MP THE	BEACON, NEW YORK 12508 (840) 838-3800 www.hveapc.com	Environmental Protection







	ESTIMATE OF QUA	NTITIES SUMMARY	
	ITEM DESCRIPTION 201.06 CLEARING AND GRUBBING		QUANTITY UNIT 1 LS
	203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL 203.03 EMBANKMENT IN PLACE		3,475 CY 400 CY
	203.07 SELECT GRANULAR FILL		240 CY
	206.0201 TRENCH AND CULVERT EXCAVATION 207.07000017 COMPOSITE GEOMEMBRANE		1,700 CY 3,856 SF
	207.20 GEOTEXTILE BEDDING 208.01030022 BIORETENTION AND DRY SWALE SOIL		325 SY 220 CY
	208.01040022 LABORATORY TESTING FOR SOIL PHOSPHORUS CONCENTRATION		2 EACH
	209.100101 MULCH - TEMPORARY 209.1003 SEED AND MULCH - TEMPORARY		9,000 SY 9,000 SY
	209.1106 CHECK DAM, STONE-PERMANENT 209.13 SILT FENCE-TEMPORARY		3 EACH 1,200 LF
	209.1901 ROLLED EROSION CONTROL PRODUCT, CLASS II TYPE A, INTERMEDIATE		1,000 SY
	209.190201 ROLLED EROSION CONTROL PRODUCT, CLASS II TYPE B,INTERMEDIATE 209.2103 SOIL STABILIZERS, CLASS IV TYPE C		1,700 SY 9,000 SY
	209.22 CONSTRUCTION ENTRANCE 304.12 SUBBASE COURSE, TYPE 2		600 SY 708 CY
	402.128303 12.5 F3 TOP COURSE HMA, 80 SERIES COMPACTION		12 TON
	402.198903 19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION 402.378903 37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION		20 TON 31 TON
	411.01 STABILIZED GRAVEL SURFACE COURSE 520.0900010 SAW CUTTING ASPHALT CONCRETE		45 CY 622 LF
	552.17 SHIELDS AND SHORING	45 INOLIDIAMETED 40 CALLOS	1,750 SF
	603.171116 GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2" CORRUGATIONS): 603.171216 GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2" CORRUGATIONS):	18 INCH DIAMETER, 16 GAUGE	2 EACH 3 EACH
	603.9812 SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM 603.9815 SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM		420 LF 130 LF
	603.99220015 POLYVINYL CHLORIDE PIPE, SANITARY SEWER GRAVITY, 6 IN. DIA		85 LF
	604.302192 RECTANGULAR DRAINAGE STRUCTURE TYPE U FOR PARALLEL BAR #12 604.4048 ROUND PRECAST CONCRETE MANHOLE TYPE 48	POB FRAME	40 LF 7 LF
	605.09020008 UNDERDRAIN FILTER TYPE 1 (MODIFIED) 605.1702 OPTIONAL UNDERDRAIN PIPE, 6 INCH DIAMETER		330 CY 750 LF
	607.4070 OPTIONAL FENCE GATE (DOUBLE LEAF 24 FEET OPENING 4 FEET HIGH)		1 EACH
	607.41010010 TEMPORARY PLASTIC BARRIER FENCE 607.92080008 STOCKADE FENCE 8 FOOT HIGH		200 LF 70 LF
	607.96010010 DECORATIVE TIMBER RAIL 608.01020005 COLORED PORTLAND CEMENT CONCRETE SIDEWALK		357 LF 21 CY
	608.020102 HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS	, AND VEGETATION CONTROL STRIPS	578 TON
	608.21 EMBEDDED DETECTABLE WARNING UNITS 609.0401 CAST-IN-PLACE CONCRETE CURB TYPE VF150		9 SY 297 LF
	610.10 COMPOST 610.1101 MULCH FOR PLANTING TYPE A, B & D - WOOD CHIPS AND SHREDDED BA	ARK	90 CY 35 CY
	610.1402 TOPSOIL - ROADSIDE 610.1601 TURF ESTABLISHMENT - ROADSIDE		435 CY
	610.19 WATERING VEGETATION		300 MGAL
	610.22 MOWING LIMITS MARKERS 611.0211 PLANTING - MINOR DECIDUOUS TREES - SIZE AS SPECIFIED BALL & BUR	KLAP, FIELD POTTED OR FIELD BOXED	10 EACH 25 EACH
	611.0411 PLANTING DECIDUOUS SHRUBS - AS SPECIFIED BALL & BURLAP, FIELD 611.0452 PLANTING - DECIDUOUS SHRUBS - 3 FOOT HEIGHT/SPREAD CONTAINER	POTTED OR FIELD BOXED	61 EACH 5 EACH
	611.0711 PLANTING - HERBACEOUS PLANTS - AS SPECIFIED CONTAINER GROWN		575 EACH
	611.20 POST-PLANTING CARE 614.060104 TREE REMOVAL OVER 4 INCHES TO 6 INCHES DIAMETER BREAST HEI GI	HT - STUMPS GRUBBED	850 SY 2 EACH
	615.10010208 KIOSK STRUCTURE (NOT MANUFACTURED) TYPE 2 620.03 STONE FILLING (LIGHT)		1 EACH 60 CY
	625.01 SURVEY OPERATIONS		1 LS
	645.5102 GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF, WITH 645.5202 GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF, WITH		77 SF 19 SF
	645.81 TYPE A SIGN POSTS 647.31 RELOCATE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE I (UNDER 30 SQU.	·	27 EACH 3 EACH
	655.05020010 FRAMES AND COVERS FOR SANITARY SEWER MANHOLES		2 EACH
	655.0903 PARALLEL BAR FRAME 12 PCB & PARALLEL BAR GRATE 12 PCB 655.1201 MANHOLE FRAME AND GRATE		5 EACH 1 EACH
	664.40600006 PRECAST SANITARY SEWER MANHOLE (60 INCH DIAM.) 670.2003 GALVANIZED STEEL CONDUIT, 2"		15 LF 184 LF
	685.01 WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 15 MILS		1,850 LF
AFFIX SEAL: ON: ALTERED BY: ON:	685.04 WHITE EPOXY REFLECTORIZED PAVEMENT SYMBOLS - 15 MILS 697.03 FIELD CHANGE PAYMENT		4 EACH 30,000 DC
UNI	699.040001 MOBILIZATION		1 LS
	AS-BUILT REVISIONS	PIN BRIDGES	CULVERTS ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED
	DESCRIPTION OF ALTERATIONS:		
			ESTIMATE OF QUANTITIES