	8		7		6	
	4 0	FOUNDATION NOT	<u>ES (CONT'D FROM DV</u>	WG NO. G	<u>-12)</u>	
		CONDUCT ONE (1) COM			DUCTION PILES IF PILE LOAD TEST IS FINAL, TESTED UNTIL PILE PASSES LOAD TEST	
D	4.2		RIOD OF THREE (3) WEEKS S TEST PILE TO COMMENCEMEN		FROM THE COMPLETION OF DRIVING AND DAD TEST.	
	4.3	TO THE ENGINEER FOR PERFORM ALL LOAD TE SUBMIT DRAWINGS AND INSTALLATION DETAILS TESTED WILL BE INCLU TELLTALES, REFERENCE	REVIEW. SHOP DRAWINGS OF STS SHALL BE SUBMITTED TO CALCULATIONS CERTIFED BY NCLUDING REINFORCING STEEI DED IN THE TEST PROGRAM.	THE LOADIN THE ENGINE A PROFESSIO TO BE INSE MEASUREMEN I BY A LICEN	TO BE LOAD TESTED SHALL BE SUBMITTED G FRAMES AND EQUIPMENT REQUIRED TO ER FOR REVIEW. THE CONTRACTOR SHALL NAL ENGINEER FOR THE ENGINEER'S REVIEW. RTED IN CONCRETED PILES REQUIRED TO BE IS OF MOVEMENT OF THE PILE BUTT, SED SURVEYOR ENGAGED BY THE RAVEL OF 75mm (3 IN.).	(
	4.4		CONDUCTED IN ACCORDANCE E RESPECTIVE ASTM SPECIFIC		SPECTIVE SECTION OF THE CONTRACT DESCRIBED LATER.	
	4.5		CESSORIES SHALL BE KEPT [CONTRACTOR. DURING LOAD TESTS, THE AN, AND SHALL BE HANDLED CAREFULLY TO	
	4.6	CONCRETE SHALL HAVE	A MINIMUM STRENGTH OF 25	5 MPa (3,500	psi) AT THE TIME OF TESTING.	
	4.7	551.502217M: STAT		NYSDOT'S "ST	NCE WITH THE REQUIREMENTS OF ITEM TATIC PILE LOAD TEST MANUAL", RIL 2007.	
С	4.8	APPLY THE TEST LOAD	IN ACCORDANCE WITH THE PR	ROCEDURES F	OR THE "INCREMENTAL STATIC LOAD TEST."	
0		STATE, EXPERIENCED IN ENGINEER STRUCTURES RESULTS. THE CONTRAC QUALIFIED PERSONNEL	I ALL ASPECTS OF PILE LOAD (D.C.E.S.), TO PERFORM THE CTOR'S AGREEMENT WITH THE) TESTING ANI LOAD TEST(PROFESSIONA	LICENSED AND REGISTERED IN NEW YORK O ACCEPTABLE TO THE DEPUTY CHIEF S) AND TO PREPARE THE REPORT OF TEST AL ENGINEER SHALL PROVIDE FOR ADDITIONAL URING TESTING TO ASSURE THAT LOADS ARE	
-	4.9	A STEEL SOUNDING RC SHALL BE PROTECTED IN THE TUBE IN A MAN STARTS, FURNISH TO T AND EXACT LENGTH OF AND SHALL BE CENTER APPROVAL OF THE ENC	D EXTENDING TO THE ELEVAT BY A STEEL TUBE EMBEDDED INER TO AVOID FRICTION BET HE ENGINEER THE PROPOSED EACH INDIVIDUAL TELLTALE. ED IN THE PILE. THE DETAILS GINEER. AFTER COMPLETION O THEIR LENGTH. THE TUBES S	ION TO BE D IN THE CON WEEN THE TEI METHOD OF A TELLTALE S AND METHO F LOAD TESTS	EST PILE. EACH TELLTALE SHALL CONSIST OF ESIGNATED BY THE ENGINEER. THE TELLTALES CRETE. THE TELLTALES SHALL BE CENTERED LTALE AND TUBE. BEFORE EACH TEST INSTALLATION, ANCHORAGE DETAIL, LOCATION HALL BE INSTALLED TO THE TIP OF THE PILE O OF INSTALLATION ARE SUBJECT TO 5, THE CONTRACTOR SHALL REMOVE ALL LED WITH GROUT. FOLLOW THE	
	4.10		ENGINEER WILL ESTABLISH TH		F THE REQUIRED NUMBER OF ACCEPTABLE VING CRITERIA, INCLUDING THE MINIMUM TIP	
	<u>5.0</u>	DRAINAGE SYSTEM FOUN	DATION NOTES			
В	GENE	RAL NOTES 1.2, 1.20,	.21 AND 1.22, ON DRAWING	G-12, APPLY	TO THE DRAINAGE SYSTEM FOUNDATION.	
	5.1	SPECIFICATIONS, SECTION		IFICATIONS FC	E REQUIREMENTS OF THE STANDARD R ITEM 11551.04M, ASTM D25, THESE	
	5.2		N AND PRESSURE PROCESS L		TREATMENT PLANT STATING THE TYPE OF IOUNT OF PRESERVATIVE RETAINED, AND	
	5.3		F 200 MM (8 INCHES) AT T F 300 MM (12 INCHES) AT T			
	5.4	AXIAL TENSION (UPLI	N LOADS: 180 kN (20 TON) + 90 T) 45 kN (5 TON) 9 kN (1 TON)	kN (10 TON)	DOWNDRAG	
	5.5	STATIC PILE LOAD TEST	: NONE			
	5.6	SPLICING OF TIMBER P	LES IS NOT PERMITTED.			
A	5.7	THE ARROW POINT, MA	NUFACTURED BY THE ASSOCIA E SHALL FULLY COVER THE F	TED PILE ANI	ERLY FITTED STEEL DRIVING SHOE SUCH AS D FITTING CORP., OR AN APPROVED EQUAL. OF THE PILE. THE POINTED END SHALL BE I	N
	5.8	PILES SHALL BE DRIVE	N FROM THE BOTTOM OF THE	PRE-EXCAVA	TION FOR THE PILE CAP.	
	I			0	20 40 60 80 100 ORIGINAL SIZE IN MM	

8

6

- 5
- 5.9 TIMBER PILES SHALL BE DRIVEN WITH A SINGLE-ACTING AIR/STEAM, HYDRAULIC OR DIESEL HAMMER WITH A MINIMUM RATED ENERGY OF 20 kJ (15,000 FOOT-POUNDS). THE MINIMUM TRANSFERRED ENERGY SHALL BE 9.5 kJ (7,000 FOOT-POUNDS).
- 5.10 IF IN THE OPINION OF THE ENGINEER THE HAMMER IS NOT PRODUCING THE MINIMUM TRANSFERRED ENERGY, THEN THE CONTRACTOR SHALL REPLACE THE HAMMER AT NO EXPENSE TO NYCDOT. THE CONTRACTOR, AT HIS/HER OWN EXPENSE, MAY EMPLOY A PILE DRIVING ANALYZER TO DETERMINE THE MINIMUM TRANSFERRED ENERGY.
- 5.11 TIMBER PILES SHALL BE DRIVEN CONTINUOUSLY TO A MINIMUM DRIVING RESISTANCE EQUAL TO 30 BLOWS PER 300 MM (1 FOOT) OF PENETRATION, BUT NOT SHALLOWER THAN THE MINIMUM PILE TIP ELEVATIONS GIVEN IN THE TABLE.
- 5.12 COLLARS AND BANDS SHALL BE PROVIDED WHERE NECESARY TO PROTECT TIMBER PILES FROM SPLITTING AND BROOMING.
- 5.13 MINIMUM CENTER-TO-CENTER PILE SPACING SHALL BE AS SHOWN ON THE NYCDEP SEWER DESIGN STANDARDS, DWG. NO. 2 FOR PILE SPACING FOR DIP AND ON THE NYCDEP SEWER DESIGN STANDARDS, DWG. NO. 4 AND DWG. NO. 6 FOR PILE SPACING FOR PRCP. MINIMUM PILE SPACING FOR REPLACEMENT PILES MAY BE MODIFIED BY THE ENGINEER. SPACING OF ALL TIMBER PILES SHALL BE INSTALLED WITH A MAXIMUM TOLERANCE OF 75 MM (3 INCHES) FROM PLAN LOCATION.
- 5.14 MINIMUM PILE TIP ELEVATIONS SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, BUT NO PILE SHALL BE LESS THAN 3 M (10 FT) IN LENGTH BELOW THE BOTTOM OF THE PILE CAP:

TABLE

MINIMUM PILE TIP ELEVATIONS (METERS)							
FROM	8+140	то	8+345	MIN PTE=	-7.0		
FROM	8+345	то	8+375	MIN PTE=	-6.5		
FROM	8+375	ТО	8+405	MIN PTE=	-8.5		
FROM	8+405	то	8+435	MIN PTE=	-6.5		
FROM	8+435	то	8+525	MIN PTE=	-7.0		
FROM	8+525	то	8+555	MIN PTE=	-6.5		
FROM	8+555	то	8+585	MIN PTE=	-7.5		
FROM	8+585	то	8+615	MIN PTE=	-7.0		
FROM	8+615	то	8+645	MIN PTE=	-9.0		
FROM	8+645	то	8+675	MIN PTE=	-7.5		
FROM	8+675	то	8+700	MIN PTE=	-7.0		
FROM	8+700	то	8+710	MIN PTE=	-6.0		
		(DUTFALL F1	MIN PTE=	-7.0		
FROM	8+710	TO	8+780	MIN_PTE=	-4.0	\sim	
BRIBGE							

4

	OUTFALL F2				-4.5
FROM	8+935	ТО	9+045	MIN PTE=	-4.5
FROM	9+045	ТО	9+075	MIN PTE=	-6.0
FROM	9+075	ТО	9+105	MIN PTE=	-6.5
FROM	9+105	ТО	9+120	MIN PTE=	-6.0
FROM	9+120	ТО	9+140	MIN PTE=	-7.5
FROM	9+140	то	9+170	MIN PTE=	-7.0

5.15 DO NOT DRIVE PILES WITHIN 6 M (20 FT) OF CONCRETE LESS THAN SEVEN (7) DAYS OLD.

5.16 DURING DRIVING MAINTAIN THE HAMMER AND PILE IN COAXIAL ALIGNMENT.

- 5.17 INVESTIGATE ANY SUDDEN DECREASE IN DRIVING RESISTANCE FOR POSSIBLE BREAKAGE OF THE PILE. SUCH DECREASE IN DRIVING RESISTANCE MAY BE CAUSE FOR REJECTION OF THE PILE.
- 5.18 RE-DRIVE ANY PILE WHICH IS RAISED UP DURING DRIVING OF ADJACENT PILES, TO THE ORIGINAL PILE TIP ELEVATION AND BEARING RESISTANCE.
- 5.19 CUT OFF PILES AT TOP ELEVATION WHEN DIRECTED BY THE ENGINEER. REPLACE OR REPAIR PILES WHICH ARE DAMAGED WHEN CUT OFF.
- 5.20 FOR AREAS SUBJECT TO SURCHARGE, HIGHWAY DRAINAGE SYSTEM STRUCTURE IDENTIFIED AS PILE-SUPPORTED MAY BE INSTALLED PRIOR TO EMBANKMENT AND SURCHARGE PLACEMENT ABOVE HIGHWAY DRAINAGE SYSTEM STRUCTURE INVERT ELEVATIONS.

6.0 TEMPORARY STEEL SHEETING

5

6.1 FOR TYPICAL DETAILS AND DESIGN PARAMETERS FOR TEMPORARY STEEL SHEETING, SEE DWG. FMPT-17.

	_	
DESIGNERJ.J.E	CHECK	ER <u>F.M.C.</u>
PREPARED BY IN CHARGE	J.S.C. DRAFT	ER _M.P.G.

- TIMES.

3. ALL WORK AND DOCUMENTATION SHALL BE TO THE SATISFACTION OF THE RESIDENT ENGINEER AS WELL AS THE NYCDOT QUALITY ASSURANCE DEPARTMENT (NYCDOT-QA).

STARTING ANY WORK.

AVAILABILITY OF PLANS

- ARE SUBMITTED.

COAST GUARD (SEE DWG. NO. G-14 FOR COAST GUARD NOTES 2 THRU 11) WORK IN NAVIGABLE WATERS AND OTHER WATERWAYS

3

RESPONSIBILITIES: THE CONTRACTOR'S ATTENTION IS DIRECTED TO FRESH CREEK AND THE NAVIGATION CHANNEL THEREIN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT OPERATIONS TO COMPLY WITH ALL THE REGULATIONS AND REQUIREMENTS OF THE U.S. COAST GUARD, THE CORPS OF ENGINEERS, THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION, THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, THE NEW YORK STATE DEPARTMENT OF STATE AND THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, IN CONNECTION WITH BUT NOT LIMITED TO, THE MAINTENANCE OF NAVIGATION AND WATER POLLUTION CONTROL.

THE CONTRACTOR SHALL SUBMIT SIX (6) COPIES OF THE PLAN AND SCHEDULE OF OPERATIONS TO THE ENGINEER FOR APPROVAL AT LEAST 45 DAYS PRIOR TO COMMENCING ANY WORK IN OR OVER THE NAVIGABLE WATERWAY. TWO COPIES OF THE CONTRACTOR'S PLAN AND SCHEDULE OF OPERATIONS APPROVED BY THE NYCDOT SHALL THEN BE SUBMITTED BY THE CONTRACTOR TO THE U.S. COAST GUARD FOR THEIR APPROVAL AT LEAST 30 DAYS PRIOR TO COMMENCEMENT OF WORK.

THE PLAN AND SCHEDULE OR SEQUENCE OF OPERATION SHALL INCLUDE: A SKETCH OF THE WATERWAY, THE LOCATION OF ANY RESTRICTIONS THAT WILL BE PLACED IN THE WATERWAY, SUCH AS BARGES, ANCHORS AND ANCHOR LINES, THE LOCATION AND HEIGHT ABOVE MEAN HIGH WATER OF ANY SCAFFOLDING OR NETTING. THE PLACEMENT. TYPE AND DIMENSIONS OF COFFERDAMS. DOLPHINS. SPARS. ETC., IF USED, METHOD OF SCREENING SILT FROM DEWATERING OPERATIONS AND A PROJECTED SET OF DATES AND LENGTH OF TIME EACH OPERATION WILL TAKE. THE SCHEDULE SHALL ALSO INCLUDE THE HOURS OF OPERATION AND WHETHER OR NOT EQUIPMENT WILL BE REMOVED AT NIGHT.

3

4

2		1	
		 I	
	-		

QUALITY ASSURANCE NOTES

ALL WORK SHALL BE DONE ACCORDING TO THE PLANS, NYSDOT STANDARD SPECIFICATIONS AND SPECIAL SPECIFICATIONS, NYSDOT STEEL CONSTRUCTION MANUAL, M.U.T.C.D. MANUAL, NYSDOT MATERIALS, METHODS AND CURRENT NYSDOT ENGINEERING INSTRUCTIONS.

A RESIDENT ENGINEERING INSPECTION TEAM WILL BE ASSIGNED TO THIS PROJECT. THE CONTRACTOR SHALL INFORM THE RESIDENT ENGINEER OF HIS SCHEDULE OF SHOP FABRICATION AS WELL AS FIELD WORK OPERATIONS AND SHALL PROVIDE MEANS OF ACCESS FOR INSPECTION OF THE WORK AT ALL

4. A MEETING SHALL BE SCHEDULED WITH NYCDOT-QA TO DISCUSS THEIR PROCEDURES PRIOR TO

1. NO SHOP DRAWINGS ARE AVAILABLE FOR THESE STRUCTURES.

2. A PARTIAL SET OF ORIGINAL DESIGN PLANS ARE AVAILABLE AT THE OFFICE OF THE NEW YORK CITY DEPARTMENT OF TRANSPORTATION 2 RECTOR STREET, N.Y.C., 10006. THE CONTRACTOR USES THESE DRAWINGS AT HIS OWN RISK AND SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE SHOP DRAWINGS

AC TH	DENDUM NO). [4] SUPERSEDES	DWG. NO.	G-13	
ł					
Ì					
	\sim		[1

С

Α

B

	8	7	6
		<u>RD (CONT'D FROM DWG. NO.</u> AVIGABLE WATERS AND OTHER	
D	IT IS ANTICIPATED OFFICE OF NYCDOT PROVISIONS OF TH SHALL PAY ALL CO OF ANY "NOTICE TO SERVICES PERFORM WITH MISPLACED M	EIVED A PERMIT FOR THE CONSTRUCTION OF THI THAT THE U.S. COAST GUARD BRIDGE PERMIT WI I, DIVISION OF BRIDGES. THE CONTRACTOR SHALL IS PERMIT WHICH ARE APPLICABLE TO THE CONS OSTS IN CONNECTION THEREWITH INCLUDING BUT O MARINERS," THE COST OF RELOCATING EXISTIN MED BY THE U.S. COAST GUARD, AS REQUIRED, S MATERIAL IN WATERWAYS OR MAKING DUMPING INS AS AFORESAID SHALL BE INCLUDED IN THE PRICT	LL BE AVAILABLE FOR EXAMINATION AT THE COMPLY WITH THE REQUIREMENTS AND STRUCTION WORK OF THIS CONTRACT AND NOT NECESSARILY LIMITED TO, THE COST G NAVIGATION AIDS AND THE COST OF SUCH AS SPECIAL SURVEYS IN CONNECTION SPECTIONS. THE COST TO THE CONTRACTOR
	THE FEDERAL WATE BRIDGE ACT OF 19	SHOULD BE FAMILIAR WITH THE REGULATIONS OF ER POLLUTION CONTROL ACT OF 1972, PUBLIC L 946–(33 USC 525), SECTIONS 9 & 10 OF THE 103); SECTION 404, STAT. 816, PUBLIC LAW 92–	AW 92-500, 86 STAT. 816; THE GENERAL RIVERS AND HARBORS ACT OF MARCH 3,
	RELATE TO THE PR BEYOND THE PURV ENGINEERS MAY BE SECURING AUTHORI	ARCH AND SANCTUARIES ACT OF 1972, 86 STAT. ROPOSED CONSTRUCTION ACTIVITIES. PROPOSED A TIEW OF THE CITY'S PERMITS AS GRANTED BY TH E AFFECTED OR RESTRICTED BY THESE REGULATION IZATION FOR EXTRANEOUS WORK ACTIVITIES NOT HALL BE BORNE BY THE CONTRACTOR AND REFL I ITEMS.	CTIVITIES IN THE WATERWAY WHICH EXTEND E COAST GUARD AND/OR THE CORPS OF ONS. ALL COSTS AND DELAYS INCURRED IN INCLUDED IN THE PERMITS GRANTED AS
С	INCURRED. THE CO PROSECUTION OF 1 THE FEDERAL GOVE	SHALL OBTAIN ALL OTHER PERMITS AND LICENSE INTRACTOR SHALL GIVE ALL NOTICES NECESSARY THE WORK, AND SHALL COMPLY WITH ALL LAWS, ERNMENT, THE STATE, THE CITY (CITIES) AND OT NCOMPASSED BY THEIR CONTRACT.	AND INCIDENT TO THE DUE AND LAWFUL ORDINANCES, RULES AND REGULATIONS OF
	3. <u>MAINTENANCE AND F</u>	PROTECTION OF NAVIGATION:	
	UNREASONABLY CONSTRUCTION IN ACCORDANCE GUARD PRIOR T PLACED UPON N THE CONTRACTC WATERWAYS MAN	L BE SO CONDUCTED THAT THE FREE NAVIGATIC INTERFERED WITH AND THE PRESENT NAVIGABLE OF FALSEWORK, PILINGS OR OTHER OBSTRUCTION WITH PLANS SUBMITTED TO AND APPROVED BY O WORK BEING PERFORMED. AT NO TIME DURING NAVIGATION WITHOUT FIRST RECEIVING APPROVAL OR MUST REQUEST IN WRITING FOR APPROVAL TO NAGEMENT DIVISION, AT LEAST 60 DAYS PRIOR TO RICTIONS AND SAFETY ZONES.	DEPTHS ARE NOT IMPAIRED. THE NS, IF REQUIRED, SHALL BE ACCOMPLISHED THE NYCDOT (E.I.C.), AND THE U.S. COAST G CONSTRUCTION, SHALL RESTRICTIONS BE OF THE E.I.C. AND THE U.S. COAST GUARD.) BOTH E.I.C. AND SECTOR NEW YORK
	CONDITIONS AS NEW YORK STAT STANDARDS ISSU	MATERIAL TAKEN FROM THE WATERWAY BEDS SHA STATED AND/OR REQUIRED BY THE U.S. COAST TE DEPARTMENT OF STATE AND THE CERTIFICATIO UED IN ACCORDANCE WITH SECTION 401(A)(1) P ENT OF ENVIRONMENTAL CONSERVATION FOR THIS	GUARD, THE CORPS OF ENGINEERS, THE N OF COMPLIANCE WITH WATER QUALITY UBLIC LAW 92-500, BY THE NEW YORK
В	PERMANENT OR OF THE U.S. CO OF THE COAST	<u>AND MARKERS:</u> OR SHALL DISPLAY SIGNAL LIGHTS, INCLUDING AN TEMPORARY, AND CONDUCT OPERATIONS IN ACC DAST GUARD. THE CONTRACTOR WILL BE REQUIRE GUARD'S "NAVIGATION RULES (INTERNATIONAL – IEY RELATE TO NAVIGABLE WATERS.	ORDANCE WITH THE GENERAL REGULATIONS ED TO COMPLY WITH ALL THE PROVISIONS
	ETC.) FROM THE WHICH TIME THE	OR SHALL SERVICE AND MAINTAIN ALL "AIDS TO NE TIME THEY ARE INSTALLED UNTIL ALL WORK OF EY SHALL BE LEFT IN PLACE AND THEIR MAINTEN RDERED BY THE CITY OF NEW YORK AND/OR TH	THE CONTRACT HAS BEEN COMPLETED, AT NANCE TAKEN OVER BY OTHERS OR
	WATERWAY AS S BY MARINERS A APPROACHING A CONSTRUCTION TRAFFIC CONTRO	OR SHALL ALSO FURNISH AND INSTALL WARNING SPECIFIED BY THE CONTRACT PLANS AND/OR THE PPROACHING THE BRIDGE. THESE SIGNS SHALL V A BRIDGE CONSTRUCTION AREA AND THAT CAUTIO AND LETTERING OF THE SIGNS SHALL CONFORM OL DEVICES. ALL COSTS INCURRED IN CONNECTIO RICE BID PER MONTH FOR ITEM 619.0101M THRO OL.	E E.I.C. WHERE THEY MAY BE READILY SEEN VARN MARINERS THAT THEY ARE N SHOULD BE OBSERVED. SIZE, TO THE N.Y.S. MANUAL OF UNIFORM ON WITH THESE SIGNS SHALL BE INCLUDED
	WORK COMPLET SHALL KEEP AL	<u>CINERS:</u> OR SHALL NOTIFY THE COAST GUARD AND THE EN ION SO THAT THE APPROPRIATE NOTICE CAN BE L OFFICES APPRISED OF CONDITIONS EXISTING A E TRAFFIC MAY BE NOTIFIED ACCORDINGLY, ON A	GIVEN TO MARINERS. THE CONTRACTOR T THE SITE, WHICH RELATE TO NAVIGATION,
Α	D. <u>TEMPORARY_REM</u> THE TEMPORARY FACILITATE NAVIO LEAST 10 DAYS PERMISSION_MAY	MOVAL OF NAVIGATION AIDS: Y REMOVAL OR CHANGES IN LOCATION OF CHANN GATION. THE CONTRACTOR SHALL NOTIFY THE EN PRIOR TO THE DESIRED REMOVAL OF ANY CHAN Y BE OBTAINED AND NAVIGATION INTERESTS FULL NGE IN LOCATION.	IEL MARKERS MAY BE REQUIRED TO GINEER AND THE U.S. COAST GUARD AT INEL MARKER IN ORDER THAT APPROPRIATE
		C I) 20 40 60 80 100 ORIGINAL SIZE IN MM

8

6

E. PRESERVATION OF THE EXISTING WATERWAY:

5

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT THE WATERWAY AND CHANNEL DEPTHS. ARE NOT AFFECTED BY THE WORK. SHOULD IT BE SUSPECTED THAT THE WATERWAY OR CHANNEL DEPTHS MAY HAVE BEEN IMPAIRED OR THAT AN OBSTRUCTION MAY EXIST FROM THE WORK, THE CONTRACTOR SHALL UPON THE REQUEST OF THE COAST GUARD, CORPS OF ENGINEERS OR THE E.I.C., PROVIDE THE NECESSARY EQUIPMENT AND PERSONNEL TO UNDERTAKE A SURVEY TO DETERMINE THE PRESENCE OF ANY OBSTRUCTIONS. OBJECTS OR SILTING THAT MAY HAVE OCCURRED DURING CONSTRUCTION.

BEFORE COMMENCEMENT OF WORK IN OR NEAR THE WATERWAY, THE CONTRACTOR SHALL CONDUCT A FATHOMETRIC SURVEY (SOUNDINGS) OF THE WATERWAY BOTTOM BASED ON U.S.G.S. DATUM FOR THE FULL WIDTH OF THE WATERWAY AND FOR A DISTANCE 46 METERS UPSTREAM AND DOWNSTREAM OF THE WORK SITE (NEW STRUCTURE, BRIDGE BEING REPLACED). SOUNDINGS SHALL BE TAKEN ON A 3.0-METER GRID. A COPY OF THE SOUNDINGS SHALL BE SUBMITTED TO THE E.I.C.

UPON COMPLETION OF THE CONTRACT, AN INSPECTION OF THE WATERWAY SHALL BE PERFORMED AGAIN TO INSURE THAT ALL CONSTRUCTION WASTES HAVE BEEN COMPLETELY REMOVED FROM THE WATERWAY. THIS INSPECTION SHALL CONSIST OF BOTH A FATHOMETRIC (SOUNDINGS) SURVEY AND A WIRE DRAG. THE SURVEY SHALL BE TAKEN ON A 3.0-METER GRID AND COVER THE AREA PREVIOUSLY SURVEYED. THE WIRE DRAG SHALL BE PERFORMED AFTER A REVIEW AND COMPARISON OF THE SOUNDINGS HAVE BEEN MADE BY THE ENGINEER-IN-CHARGE.

F. MISPLACED MATERIALS:

SHOULD THE CONTRACTOR, DURING THE PROGRESS OF THE WORK, LOSE, DUMP, THROW OVERBOARD, SINK OR MISPLACE ANY MATERIAL, PLANT, MACHINERY OR APPLIANCE, WHICH MAY BE DANGEROUS OR OBSTRUCT NAVIGATION, THE CONTRACTOR SHALL PROMPTLY RECOVER AND REMOVE THE SAME. THE CONTRACTOR SHALL GIVE IMMEDIATE NOTICE OF SUCH OBSTRUCTION TO THE COAST GUARD AND THE E.I.C. THE NOTICE SHALL GIVE A DESCRIPTION AND LOCATION OF ANY SUCH OBJECT AND ACTION TAKEN OR BEING TAKEN TO PROTECT NAVIGATION. UNTIL REMOVAL CAN BE EFFECTED, THE OBJECT(S) SHALL BE PROPERLY MARKED IN ORDER TO PROTECT NAVIGATION. SHOULD THE CONTRACTOR NEGLECT TO REMOVE, OR REFUSE TO PROMPTLY REMOVE ANY SUCH OBSTRUCTION, THE E.I.C. SHALL HAVE THE SAME REMOVED AND CHARGE THE COSTS AGAINST MONIES DUE TO THE CONTRACTOR OR RECOVER UNDER HIS BOND.

G. OBSTRUCTION OF CHANNEL AND WATERWAY:

SHOULD THE CONTRACTOR'S PLANT OBSTRUCT THE CHANNEL AND WATERWAY SO AS TO ENDANGER THE PASSAGE OF VESSELS. AS DEFINED IN THE RIVER AND HARBOR ACT. IT SHALL BE PROMPTLY MOVED TO THE EXTENT NECESSARY TO AFFORD A PRACTICABLE PASSAGE. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PROMPTLY REMOVE THE PLANT, INCLUDING RANGES, BUOYS, PILES, ANCHORS AND OTHER MARKERS PLACED BY THE CONTRACTOR UNDER THE CONTRACT, EITHER ON SHORE OR OFF SHORE.

4. PAYMENT

PAYMENT FOR ALL OF THE AFORESAID ITEMS CONTAINED IN NOTES 1 THRU 3 UNDER THE HEADING - "WORK IN NAVIGABLE WATERS AND OTHER WATERWAYS" ON DWGS. G-13 AND G-14 SHALL BE INCLUDED AND REFLECTED IN THE PRICES BID FOR THE VARIOUS CONTRACT ITEMS. NO SEPARATE PAYMENT WILL BE MADE FOR COMPLIANCE WITH THE CONDITIONS STATED HEREIN.

- 5. THE AS-BUILT VERTICAL AND HORIZONTAL CLEARANCES SHALL BE VERIFIED BY A LICENSED SURVEYOR OR PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK. THE SURVEYED CLEARANCES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE COST OF ALL SURVEY WORK SHALL BE INCLUDED IN ITEM 625.01 M, SURVEY OPERATIONS. ALL OTHER WORK PERFORMED TO MEET COAST GUARD REQUIREMENTS SHALL BE DEEMED TO BE INCLUDED IN THE COST OF ALL THE ITEMS OF THE CONTRACT.
- 6. SHOULD ANY ARCHAEOLOGICAL RESOURCES BE ENCOUNTERED DURING CONSTRUCTION, THE WORK SHALL CEASE AND THE NEW YORK STATE HISTORIC PRESERVATION OFFICE SHALL BE CONSULTED FOR POSSIBLE RECOVERY OF THE RESOURCES.
- 7. SPILLAGE OF OIL AND HAZARDOUS SUBSTANCES IS SPECIFICALLY PROHIBITED BY SECTION 311 OF THE FEDERAL WATER POLLUTION CONTROL ACT, AS AMENDED IN 1972. MEASURES INCLUDING PROPER MAINTENANCE OF CONSTRUCTION EQUIPMENT, ARRANGEMENT OF THE FUEL HANDLING AREAS SO AS TO PERMIT SPILLS TO BE CONTAINED BEFORE REACHING THE STREAM: INSTRUCTING PERSONNEL NOT TO DISPOSE OF OIL OR OTHER SUCH MATERIAL INTO DRAINS OR INTO THE STREAM DIRECTLY, AS WELL AS OTHER PROCEDURES SHOULD BE PLANNED TO PREVENT SPILLAGE. IF. IN SPITE OF SUCH PLANNING. OIL IS SPILLED INTO THE STREAM. BESIDES THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, THE U.S. COAST GUARD IS TO BE NOTIFIED IMMEDIATELY AT 800-424-8802. A SUPPLY OF APPROVED ABSORBENTS AND SPILL CONTAINMENT EQUIPMENT SHOULD BE KEPT AT THE JOB SITE TO BE READILY DEPLOYED PENDING COAST GUARD ARRIVAL ON THE SCENE OF THE SPILL. THE USE OF CHEMICAL DISPERSING AGENTS AND EMULSIFIERS IS NOT AUTHORIZED WITHOUT PRIOR SPECIFIC FEDERAL APPROVAL.
- 8. THE CITY OF NEW YORK ASSUMES NO RESPONSIBILITY FOR ANY DAMAGES SUSTAINED OR CAUSED BY THE CONTRACTOR'S EQUIPMENT. APPROVAL OF THE CONTRACTOR'S OPERATIONS SHALL NOT ACT AS WAIVER OF LIABILITY FOR ANY DAMAGE THAT MAY RESULT.
- 9. CONTRACTOR INTENDING THE USE OF BARGE SHALL GET THE PROPER PERMITS FROM COAST GUARD AND SHALL MEET THE FOLLOWING REQUIREMENTS:
 - A. CONTRACTOR SHALL NOTIFY COAST GUARD 30 DAYS PRIOR TO PLACEMENT OF BARGE.
 - B. REGARD TO FLOATING EQUIPMENT, THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE NAVIGATION RULES, INTERNATIONAL - INLAND.
 - C. ALL CONSTRUCTION EQUIPMENT IN THE WATERWAY SHALL BE LIGHTED IN ACCORDANCE WITH THE PROVISIONS AS OUTLINED IN THE NAVIGATION RULES INTERNATIONAL - INLAND.
 - D. IF ANY BARGES OR WORK FLOATS ARE TO BE KEPT IN PLACE BY ANCHORS, THE ANCHOR LINES MUST BE MARKED BY BUOYS WHICH SHOULD BE LIGHTED.
- 10. BLACK AND WHITE, 8 1/3" X 11", GLOSSY PHOTOGRAPHS OF THE COMPLETED BRIDGE, TAKEN FROM THE MARINER'S PERSPECTIVE BOTH UP AND DOWNSTREAM OF THE BRIDGE, ARE REQUIRED FOR RECORD PURPOSES.

PREPARED BY				
IN CHARGE _	J.S.C.	DRAFTER	С.К.	
DESIGNER_	J.S.C.	CHECKER	V.K	
	5	1		4

3

CONSERVATION/WETLAND

- PLANS.
- BOTTOM DURING LOW TIDE.
- OUTSIDE THE SITE.

3

2				l	
	<u> </u>		I]
					┢
					_

11. FOR ADDITIONAL DETAILS AND REQUIREMENTS. SEE APPENDIX C. "U.S. COAST GUARD CONSTRUCTION REQUIREMENTS" AND APPENDIX E, "U.S. COAST GUARD SECURITY ZONE / EXCLUSIONARY AREA".

1. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER TO PREVENT OR REDUCE TO A MINIMUM DAMAGE TO THE WATERWAY FROM POLLUTION BY DEBRIS, SEDIMENT OR OTHER FOREIGN MATERIAL, OR FROM THE MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR THE WATERWAY. HE SHALL NOT RETURN DIRECTLY TO THE WATERWAY, OR TO A DITCH IMMEDIATELY FLOWING INTO THE WATERWAY, ANY WATER WHICH HAS BEEN POLLUTED WITH SAND, SALT, CEMENT, OIL OR OTHER IMPURITIES. THE CONTRACTOR SHALL NOT USE WATER FROM THE WATERWAY.

TURBIDITY CURTAINS OR COFFERDAMS SHALL BE EMLOYED WHERE SHOWN ON THE PLANS. OR AS REQUIRED. TO CONTAIN WORK AREAS AND PREVENT THE RELEASE OF DEBRIS, SEDIMENT OR OTHER FOREIGN MATTER INTO THE WATERWAY. TURBIDITY CURTAINS ALONG THE SHORELINES SHALL BE MAINTAINED IN PLACE UNTIL FINAL SITE CLEANUP IS COMPLETE. COFFERDAMS SHALL BE MAINTAINED IN PLACE UNTIL ALL WORK AND CLEANUP INSIDE THE COFFERDAMS IS COMPLETE.

3. NO DISCHARGE FROM A COFFERDAM OR ANY OTHER CONSTRUCTION ACTIVITY SHALL ENTER THE WATERWAY DIRECTLY UNLESS THE DISCHARGE IS AS CLEAR AS THE FLOWING WATERWAY. BEFORE STARTING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION IN ORDER THAT THE METHODS EMPLOYED WILL HAVE PRIOR APPROVAL OF THE DEPARTMENT.

COFFERDAMS FOR NEW BRIDGE PIERS SHALL BE FULLY INSTALLED BEFORE DRIVING CONCRETE OR TIMBER PILES OR EXCAVATING/DREDGING CREEK BED SEDIMENTS. WATER CONTAMINATED WITH CREEK BED SEDIMENT, AND THE SEDIMENT, SHALL BE REMOVED FROM THE COFFERDAMS AND HANDLED AND DISPOSED AS SPECIFIED UNDER ITEMS 39203.9001M AND 39206.002005M.

5. SUITABLE PREVENTIVE MEASURES SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT BANK EROSION AND SILTATION INTO THE WATERWAY. PAYMENT FOR THESE MEASURES SHALL BE INCLUDED IN PAY ITEMS UNDER NYS SECTION 209-TEMPORARY SOIL EROSION AND SEDIMENT CONTROL. EQUIPMENT, MATERIALS AND DEBRIS SHALL NOT BE STAGED ON THE SIDE OF THE BANKS.

6. THE PROJECT IS LOCATED IN A DESIGNATED TIDAL WETLANDS AREA PROTECTED UNDER ARTICLE 25 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW. DEMOLITION AND CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH PERMITS ISSUED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION. THE BOUNDARIES OF THE TIDAL WETLANDS AREA ARE SHOWN ON THE

7. THE CONTRACTOR SHALL SUBMIT THE PLANS AND/OR WRITTEN DESCRIPTION FOR METHODS OF DEMOLITION OF EXISTING STRUCTURE, RECONSTRUCTION OF THE PROPOSED BRIDGE, EXCAVATION AND DREDGING, FREQUENCY, SIZE/TYPE AND LOCATIONS FOR BARGES TO BE USED, AND VEHICLE ACCESS ROUTES TO THE ENGINEER FOR APPROVAL BEFORE COMMENCING THE WORK. BARGES SHALL NOT REST UPON THE CREEK

8. SITE CLEANUP, INCLUDING REMOVAL OF DEMOLITION DEBRIS, SCRAP MATERIALS, FLOATING DEBRIS ON THE WATERWAY, AND OTHER FOREIGN MATTER, SHALL BE COMPLETED BEFORE THE CONTRACTOR MAY DEMOBILIZE AND LEAVE THE SITE. ANY FLOATING DEBRIS ON THE WATERWAY SHALL BE REMOVED BEFORE IT IS CARRIED

9. ALL DIRECT AND INDIRECT COSTS OF THE TIDAL WETLANDS PROTECTION SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THIS CONTRACT UNLESS INCLUDED IN SPECIFIC PAY ITEMS.

B

D