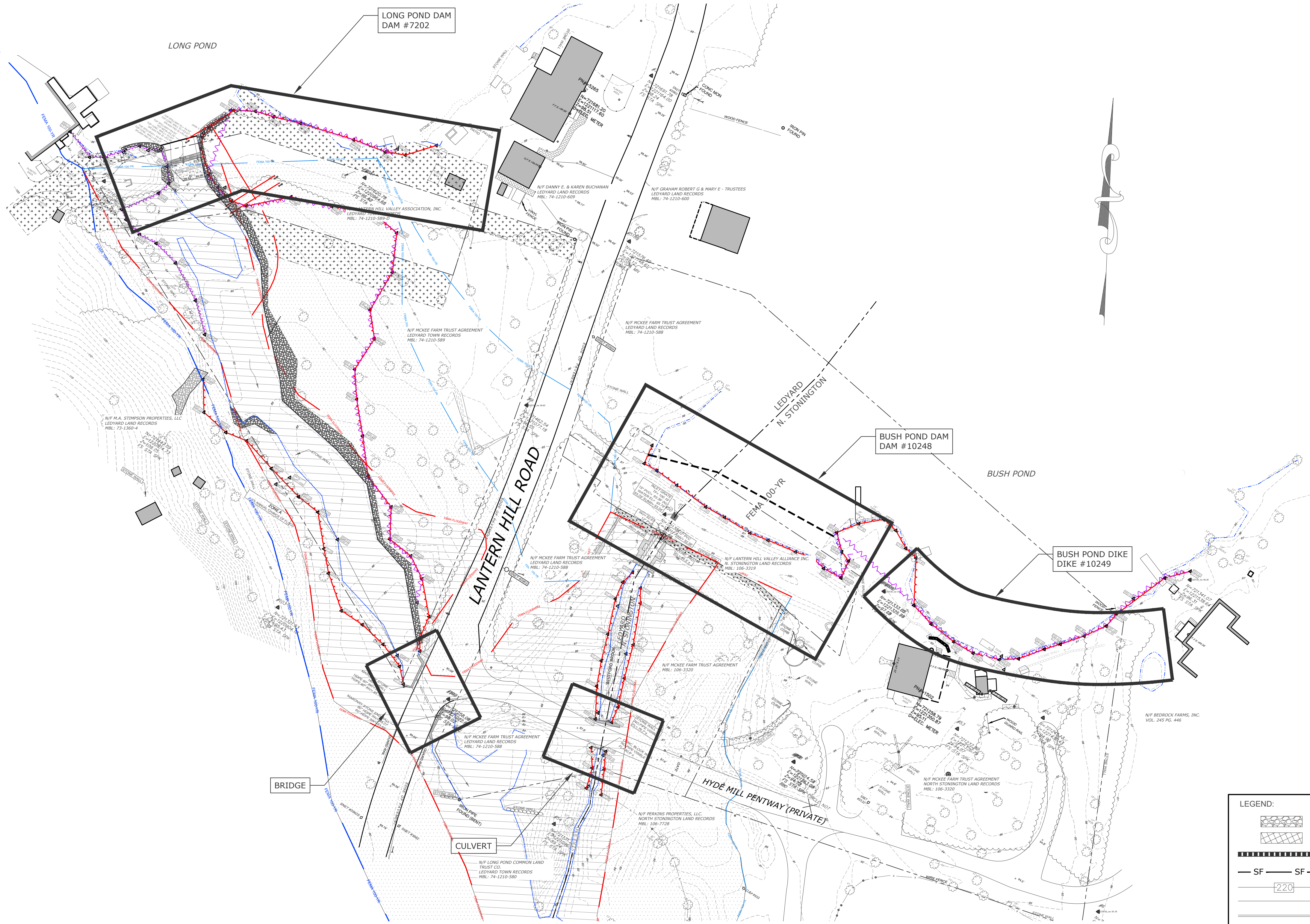


MAP REFERENCES:

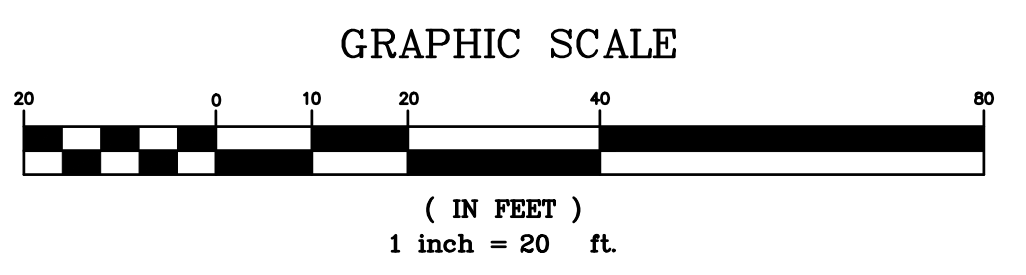
- A. "PROPERTY OF LUCY W. HEATON LANTERN HILL RD LEDYARD AND NORTH STONINGTON, CONNECTICUT" SCALE: 1"=30'; DATED: JUNE, 1964; BY: DICESARE, BENTLY, WELLING ENGINEERS.
- B. "MAP SHOWING LAND NEEDED FOR DAM AND SPILLWAY MAINTENANCE ON LONG AND BRUSH PONDS IN LEDYARD & NORTH STONINGTON, CONNECTICUT TO BE ACQUIRED BY THE LANTERN HILL VALLEY ASSOCIATION, INC" DATED: AUGUST 1976; BY: HOWARD S. IVES.

MAP NOTES:

1. THIS MAP AND SURVEY HAVE BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND "THE MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED JUNE 21, 1996; AMENDED OCTOBER 26, 2018.
2. THE TYPE OF SURVEY PERFORMED AND THE MAPPED FEATURES DEPICTED HEREON ARE IN ACCORDANCE WITH THE REQUIREMENTS OF A TOPOGRAPHIC SURVEY AND IS INTENDED TO DEPICT CERTAIN FEATURES WITHIN A SCOPE DEFINED BY THE CLIENT.
3. THE HORIZONTAL BASELINE CONFORMS TO A CLASS A-2 ACCURACY. THE VERTICAL BASELINE CONFORMS TO A CLASS V-2 ACCURACY. THE TOPOGRAPHIC FEATURES CONFORM TO A CLASS T-2 ACCURACY.
4. THE PROPERTY/BOUNDARY LINES DEPICTED HEREON CONFORM TO A CLASS D AS THEY HAVE BEEN COMPILED FROM RECORD RESEARCH, OTHER MAPS, AND LIMITED FIELD MEASUREMENTS. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.
5. THE NORTH ARROW AND BEARINGS ARE BASED UPON THE CONNECTICUT STATE COORDINATE SYSTEM N.A.D. 1983 (2011). THE ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) USING GEOID 12B. COORDINATES AND ELEVATIONS WERE DETERMINED FROM RTK GPS OBSERVATIONS MADE ON JANUARY 12, 2024, USING THE CT DOT RTK NETWORK KNOWN AS ACORN (CTGU BASE), HAVING THE FOLLOWING VALUES:  
  
 LATITUDE = N 41° 20' 07.03551"  
 LONGITUDE = W 72° 02' 58.96930"  
 ELLIPSOID HEIGHT = -18.343M
6. THE TOPOGRAPHIC FEATURES DEPICTED HEREON ARE THE RESULT OF A FIELD SURVEY CONDUCTED IN JANUARY, 2024 UNLESS OTHERWISE NOTED.
7. UNDERGROUND UTILITIES, STRUCTURES AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON ARE BASED UPON OBSERVABLE SURFACE EVIDENCE WHILE CONDUCTING THE FIELD SURVEY. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE WHICH IS UNKNOWN TO MARTIN SURVEYING ASSOCIATES, LLC. ALL CONTRACTORS ARE REQUIRED TO CONTACT CALL-BEFORE-YOU-DIG AT 1-800-922-4455 FOR LOCATION AND OR STAKEOUT OF ANY UTILITY PRIOR TO ANY EXCAVATION.



**EXISTING OVERALL SITE PLAN**  
SCALE: 1" = 40'-0"



LEGEND:	
	RIPRAP SLOPE / OUTFALL
	BITUMINOUS CONCRETE DRIVEWAY
	STORM PIPE
	SEDIMENTATION CONTROL SYSTEM
	CONTOUR
	EDGE OF BITUMINOUS DRIVE
	EDGE OF ROAD (BITUMINOUS CURB)
	APPROXIMATE CUT/FILL LIMITS (COINCIDENT WITH TREE CLEARING)
	EDGE OF BITUMINOUS DRIVE
	APPROXIMATE BORING LOCATION
	CATCH BASIN / CATCH BASIN TOP
	DRAINAGE MANHOLE
	TREE TO BE REMOVED

SUPV.	K.O.E.	
DESIGN	R.I.	
DRAWN	D.T.J.	
CHECKED	M.E.F.	
DATE	04/02/2026	
NO.	DATE	DESCRIPTION
<b>REVISIONS</b>		

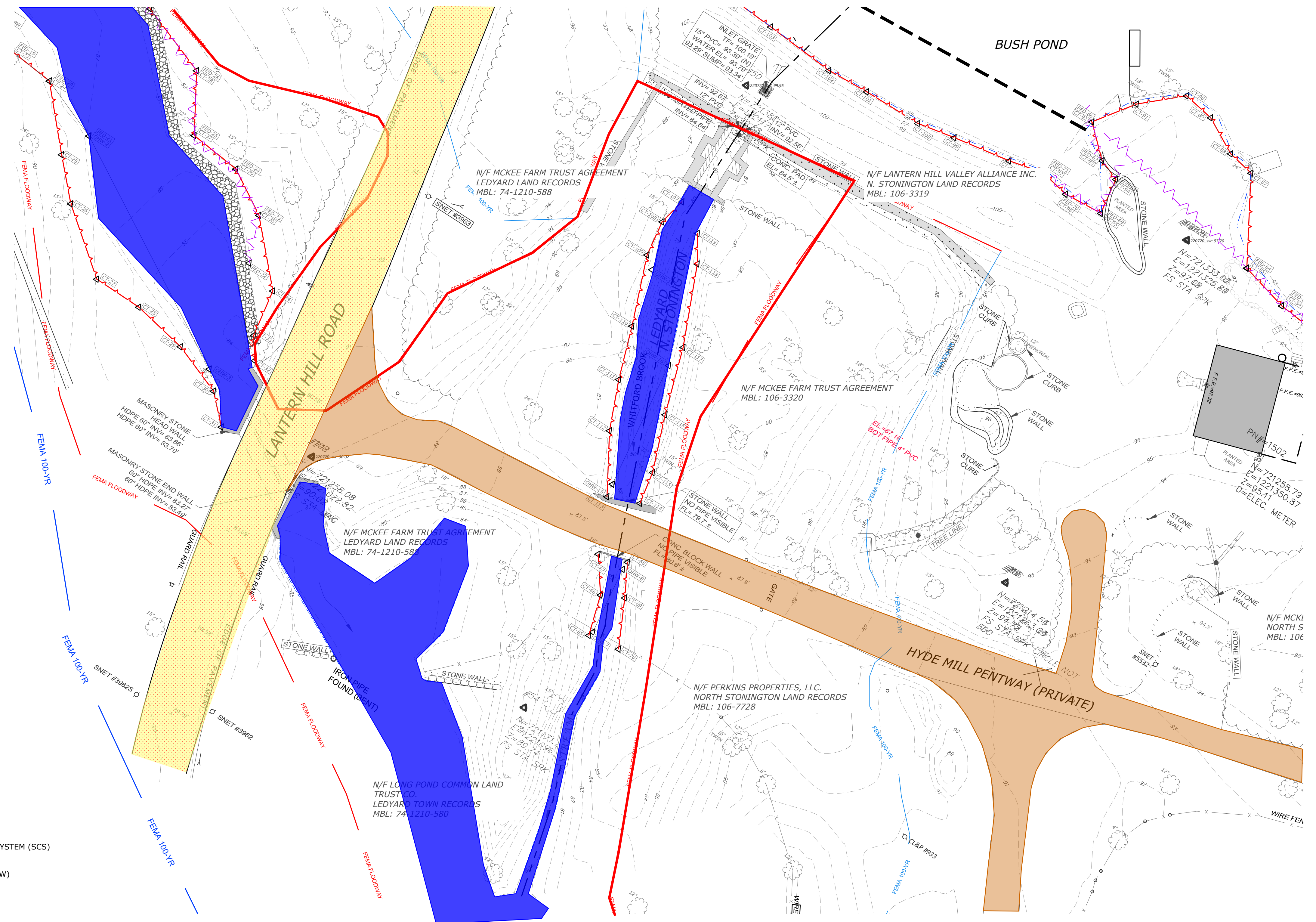
--	--	--	--	--	--

**WMC**  
CONSULTING ENGINEERS

• WENGELL, McDONNELL & COSTELLO •  
87 HOLMES ROAD  
NEWINGTON, CT 06111  
(860) 667-9624

**PREPARED FOR**  
TOWN OF NORTH STONINGTON/LEDYARD  
40 MAIN STREET/ 741 COLONEL HIGHWAY  
NORTH STONINGTON, CT 06359 / LEDYARD, CT 06339

<b>IMPROV. TO WHITFORD BROOK WATERSHED BUSH POND EXISTING OVERALL SITE PLAN</b>					SHEET 2
D	LANTERN HILL	S.F.D.	23016	REV.	OF 12
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF



**EXISTING CONDITIONS - CULVERT**

SCALE: 1" = 20'-0"

**LEGEND**

- SEDIMENTATION CONTROL SYSTEM (SCS)
- ORDINARY HIGH WATER (OHW)
- STATE WETLANDS
- FEDERAL WETLANDS
- LIMIT OF FLOODWAY
- FEMA 100-YR FLOOD (CALCULATED)

**GRAPHIC SCALE**

( IN FEET )  
1 inch = 20 ft.

**LEGEND:**

- RIPRAP SLOPE / OUTFALL
- BITUMINOUS CONCRETE DRIVEWAY
- STORM PIPE
- SEDIMENTATION CONTROL SYSTEM
- CONTOUR
- EDGE OF BITUMINOUS DRIVE
- EDGE OF ROAD (BITUMINOUS CURB)
- APPROXIMATE CUT/FILL LIMITS (COINCIDENT WITH TREE CLEARING)
- EDGE OF BITUMINOUS DRIVE
- APPROXIMATE BORING LOCATION
- CATCH BASIN / CATCH BASIN TOP
- DRAINAGE MANHOLE
- TREE TO BE REMOVED

NO.	DATE	DESCRIPTION
<b>REVISIONS</b>		

SUPV.	K.O.E.
DESIGN	R.I.
DRAWN	D.T.J.
CHECKED	M.E.F.
DATE	04/02/2026

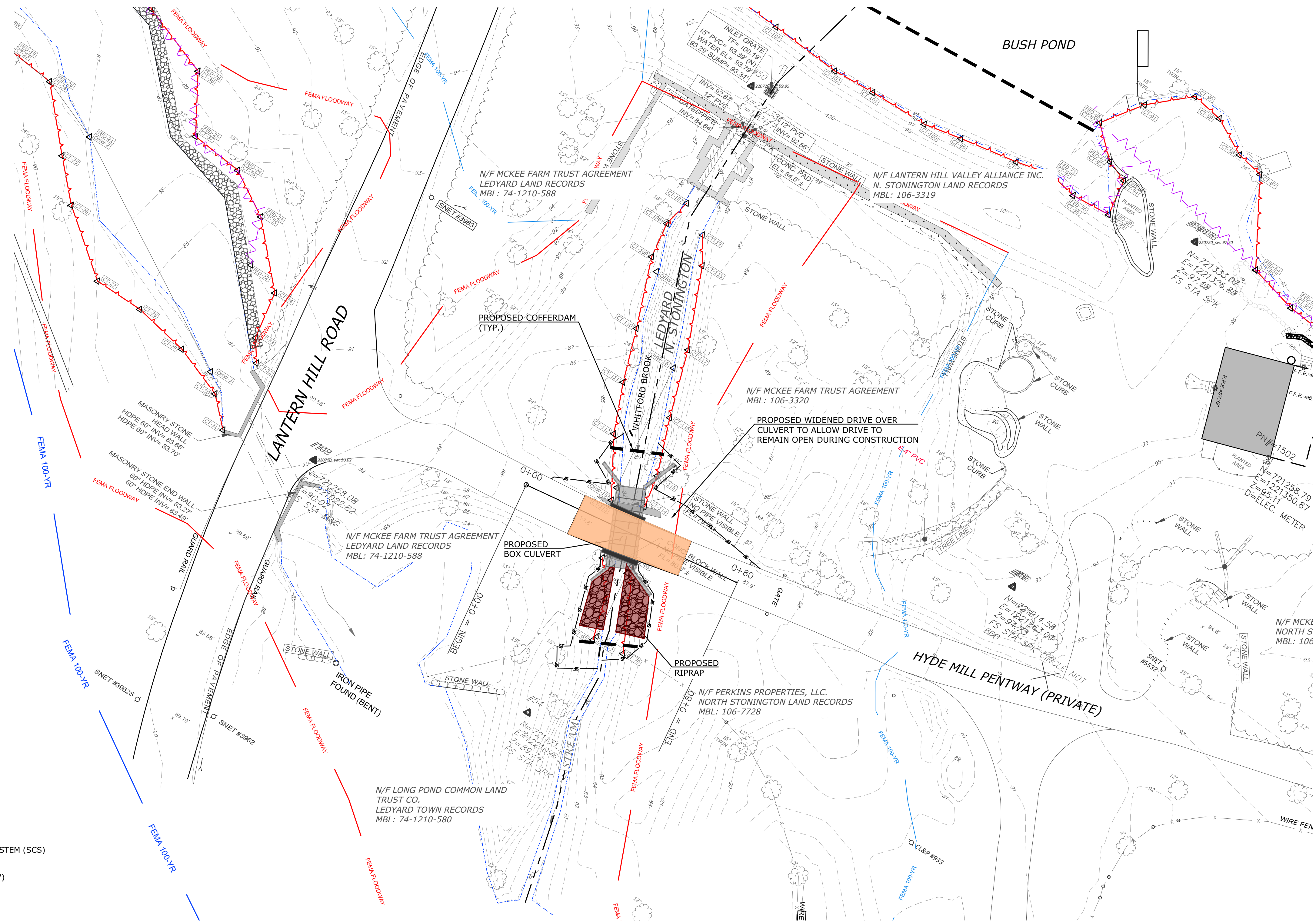
**WMC**  
CONSULTING ENGINEERS

• WENGELL, McDONNELL & COSTELLO •  
87 HOLMES ROAD  
NEWINGTON, CT 06111  
(860) 667-9624

**PREPARED FOR**  
TOWN OF NORTH STONINGTON/LEDYARD  
40 MAIN STREET/ 741 COLONEL HIGHWAY  
NORTH STONINGTON, CT 06359 / LEDYARD, CT 06339

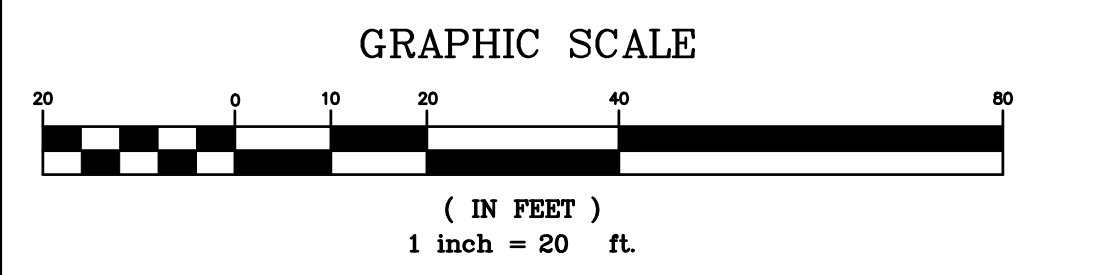
**IMPROV. TO WHITFORD BROOK WATERSHED CULVERT EXISTING CONDITIONS**

D	LANTERN HILL	S.F.D.	23016	REV.	OF	12
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	12



**PROPOSED CONDITIONS - CULVERT**  
SCALE: 1" = 20'-0"

- LEGEND**
- SEDIMENTATION CONTROL SYSTEM (SCS)
  - ORDINARY HIGH WATER (OHW)
  - STATE WETLANDS
  - FEDERAL WETLANDS
  - LIMIT OF FLOODWAY
  - FEMA 100-YR FLOOD (CALCULATED)



- LEGEND:**
- RIPRAP SLOPE / OUTFALL
  - BITUMINOUS CONCRETE DRIVEWAY
  - STORM PIPE
  - SEDIMENTATION CONTROL SYSTEM
  - CONTOUR
  - EDGE OF BITUMINOUS DRIVE
  - EDGE OF ROAD (BITUMINOUS CURB)
  - APPROXIMATE CUT/FILL LIMITS (COINCIDENT WITH TREE CLEARING)
  - EDGE OF BITUMINOUS DRIVE
  - APPROXIMATE BORING LOCATION
  - CATCH BASIN / CATCH BASIN TOP
  - DRAINAGE MANHOLE
  - TREE TO BE REMOVED

NO.	DATE	DESCRIPTION
<b>REVISIONS</b>		

SUPV.	K.O.E.
DESIGN	R.I.
DRAWN	D.T.J.
CHECKED	M.E.F.
DATE	04/02/2026

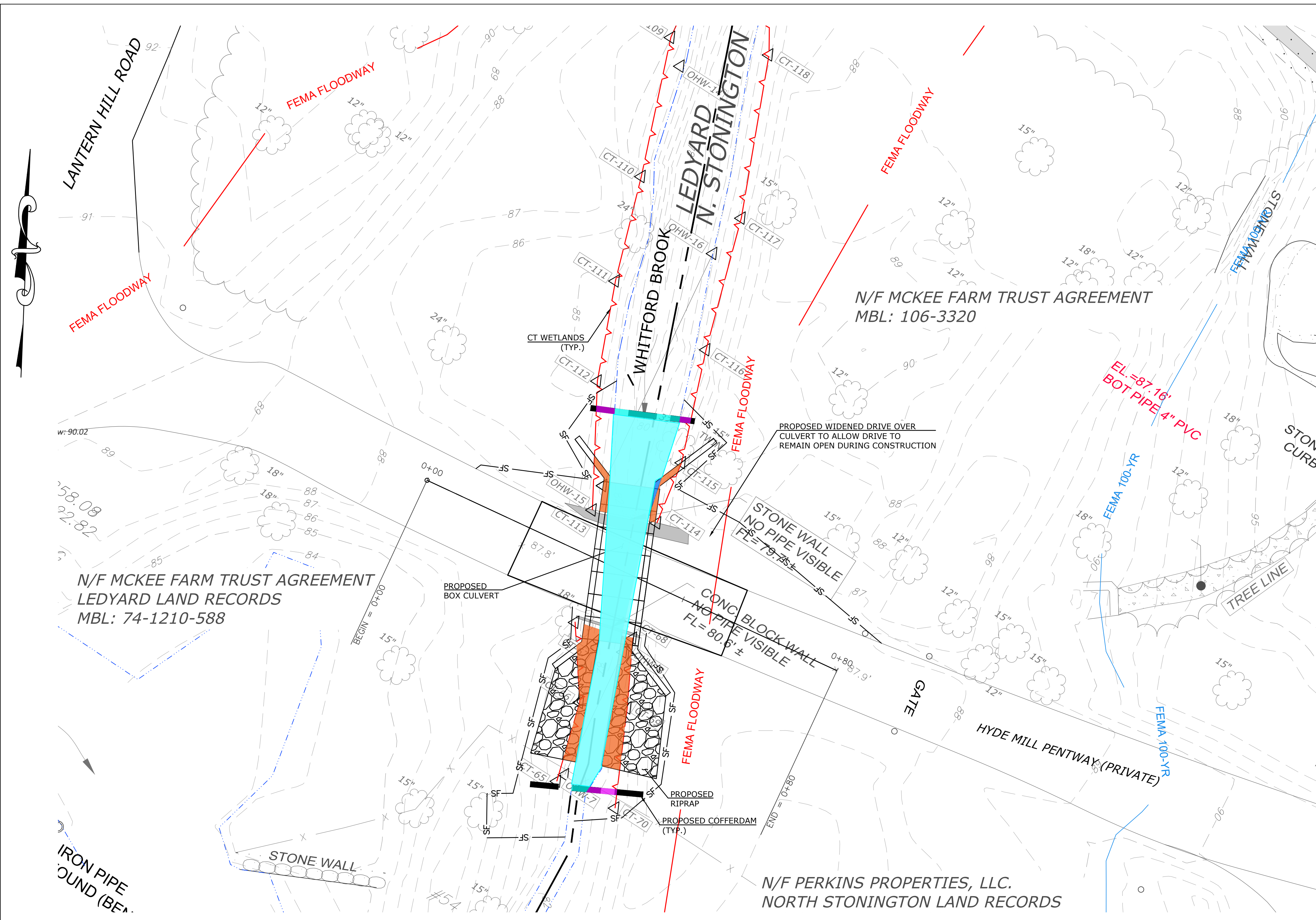
**WMC**  
CONSULTING ENGINEERS

• WENGELL, McDONNELL & COSTELLO •  
87 HOLMES ROAD  
NEWINGTON, CT 06111  
(860) 667-9624

**PREPARED FOR**  
TOWN OF NORTH STONINGTON/LEDYARD  
40 MAIN STREET/ 741 COLONEL HIGHWAY  
NORTH STONINGTON, CT 06359 / LEDYARD, CT 06339

**IMPROV. TO WHITFORD BROOK WATERSHED CULVERT PROPOSED SITE PLAN**

D	LANTERN HILL	S.F.D.	23016		SHEET	4
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	12



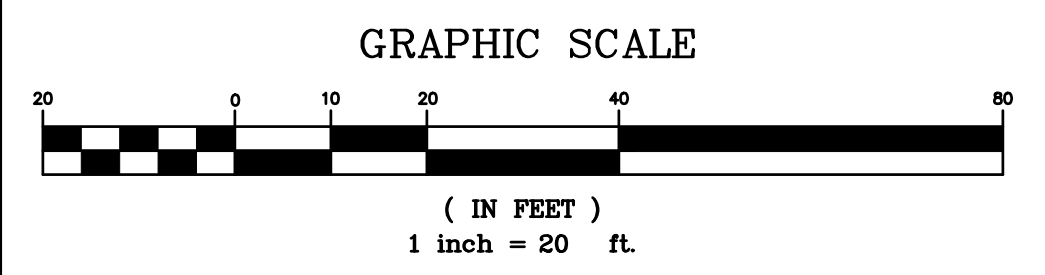
**STATE WETLAND/WATERCOURSE IMPACT PLAN**  
SCALE: 1" = 10'-0"

**LEGEND**

- SEDIMENTATION CONTROL SYSTEM (SCS)
- ORDINARY HIGH WATER (OHW)
- STATE WETLANDS
- FEDERAL WETLANDS
- LIMIT OF FLOODWAY
- FEMA 100-YR FLOOD (CALCULATED)
- PERMANENT WATERCOURSE IMPACTS
- TEMPORARY WATERCOURSE IMPACTS
- PERMANENT WETLAND IMPACTS
- TEMPORARY WETLAND IMPACTS

STATE WETLAND AND WATERCOURSE IMPACT TABLE (NORTH STONINGTON)				
	WETLAND SITE NO.	WETLAND IMPACTS	WATERCOURSE IMPACTS	TOTAL
PERMANENT IMPACTS	1	71 S.F. (0.0016 AC.)	7 S.F. (0.0001 AC.)	78 S.F. (0.0018 AC.)
TEMPORARY IMPACTS	1	8 S.F. (0.0002 AC.)	65 S.F. (0.0015 AC.)	73 S.F. (0.0016 AC.)
TOTAL IMPACTS		79 S.F. (0.0018 AC.)	72 S.F. (0.0016 AC.)	151 S.F. (0.0034 AC.)

STATE WETLAND AND WATERCOURSE IMPACT TABLE (LEDYARD)				
	WETLAND SITE NO.	WETLAND IMPACTS	WATERCOURSE IMPACTS	TOTAL
PERMANENT IMPACTS	1	66 S.F. (0.0015 AC.)	0 S.F. (0.000 AC.)	66 S.F. (0.0015 AC.)
TEMPORARY IMPACTS	1	3 S.F. (0.0000 AC.)	110 S.F. (0.002 AC.)	113 S.F. (0.002 AC.)
TOTAL IMPACTS		69 S.F. (0.0015 AC.)	110 S.F. (0.002 AC.)	179 S.F. (0.004 AC.)



SUPV.	K.O.E.	
DESIGN	R.I.	
DRAWN	D.T.J.	
CHECKED	M.E.F.	
NO.	DATE	DESCRIPTION
<b>REVISIONS</b>		
	DATE	DESCRIPTION
	04/02/2026	

--	--	--	--	--

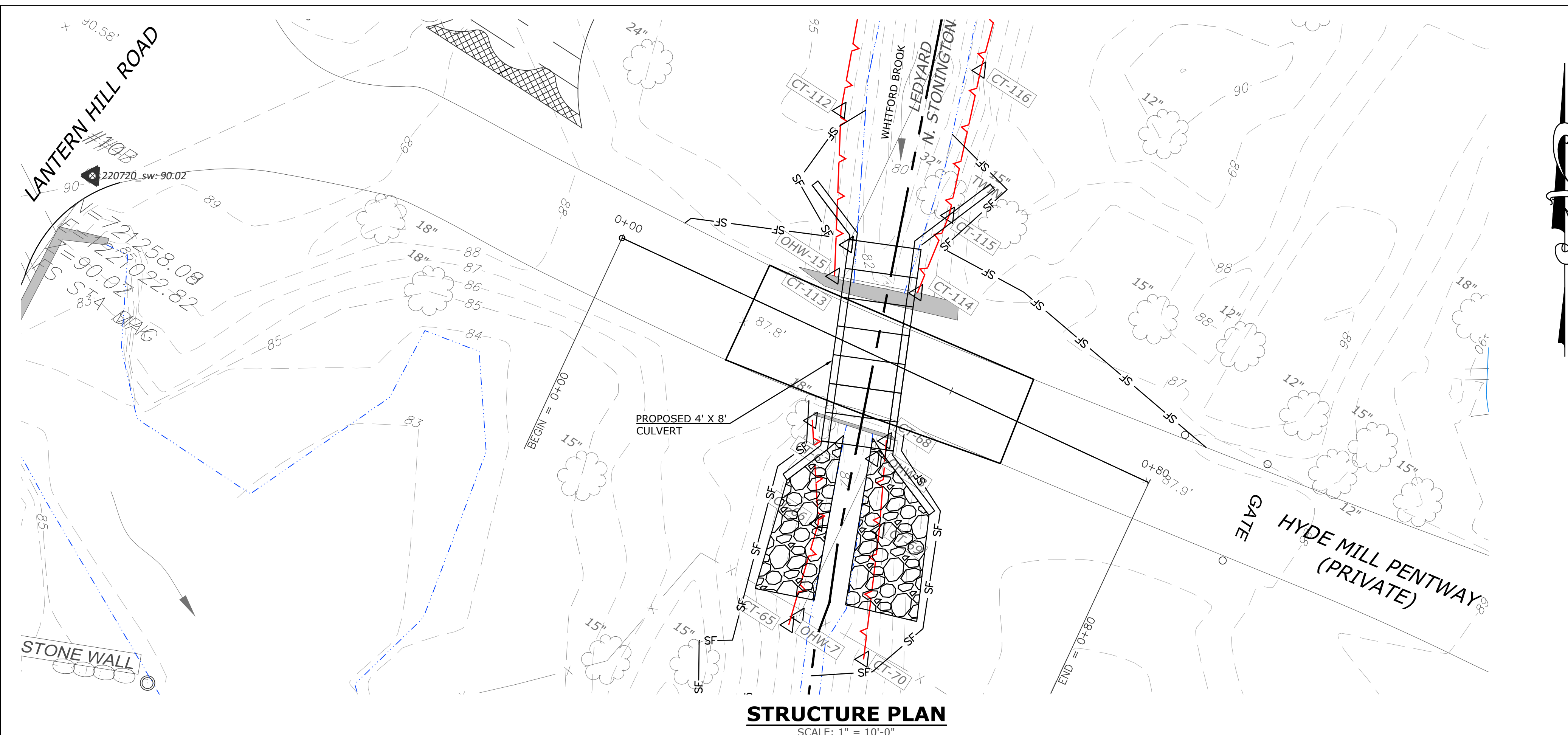
**WMC**  
 CONSULTING ENGINEERS  
 • WENGELL, McDONNELL & COSTELLO •  
 87 HOLMES ROAD  
 NEWINGTON, CT 06111  
 (860) 667-9624

**PREPARED FOR**  
 TOWN OF NORTH STONINGTON/LEDYARD  
 40 MAIN STREET/ 741 COLONEL HIGHWAY  
 NORTH STONINGTON, CT 06359 / LEDYARD, CT 06339

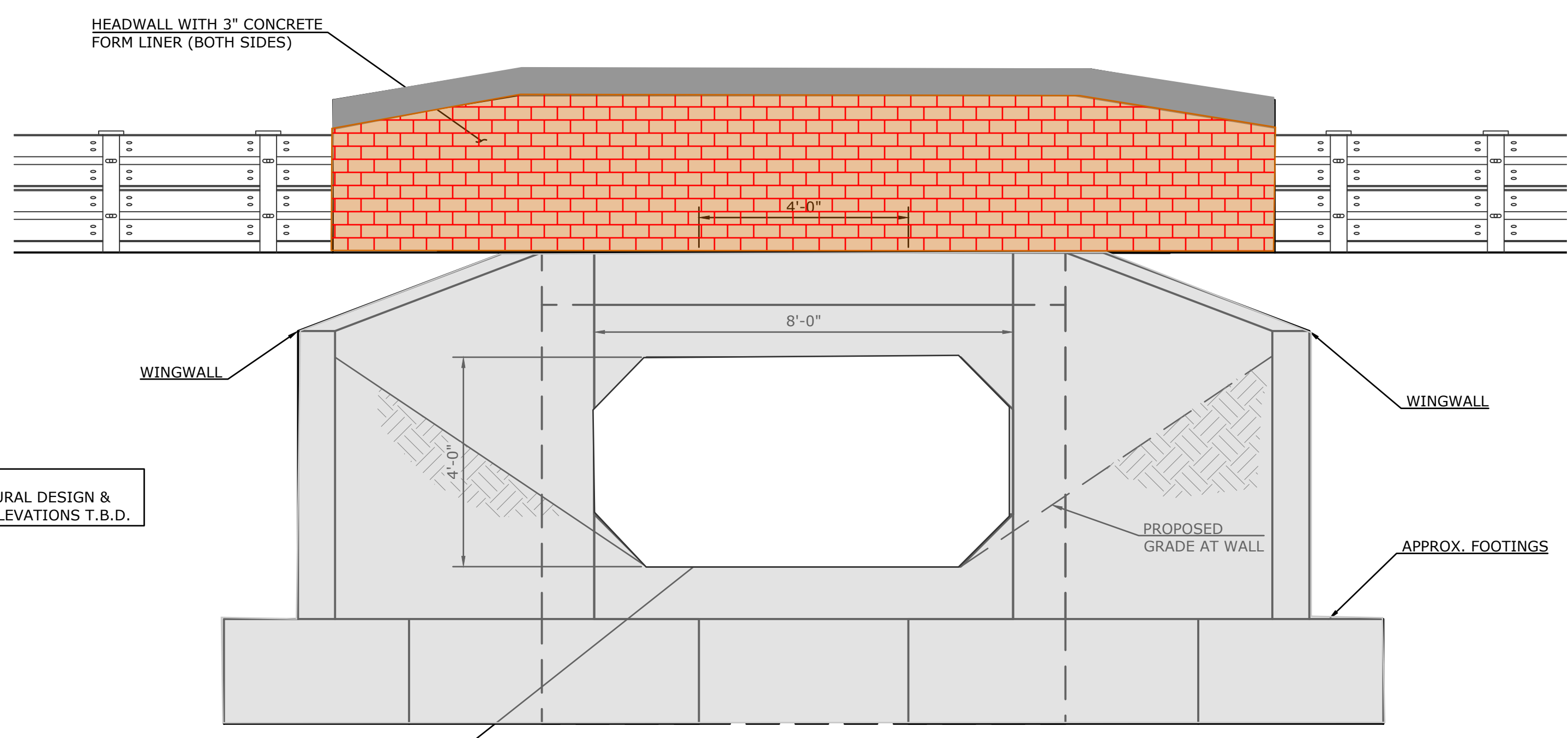
<b>IMPROV. TO WHITFORD BROOK WATERSHED CULVERT CT WETLAND/WATERCOURSE IMPACT PLAN</b>				
D	LANTERN HILL	S.F.D.	23016	SHEET 5
SIZE	PROJECT	FILE NAME	NUMBER	REV. OF 12





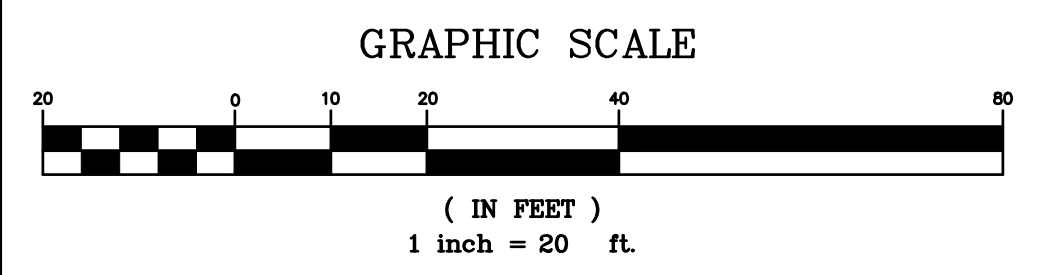


**STRUCTURE PLAN**  
SCALE: 1" = 10'-0"



**4'X8' BOX CULVERT SECTION & ELEVATION**  
**(T.B.D.)**  
SCALE: 1/2" = 1'-0"

NOTICE TO BRIDGE INSPECTORS	
THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS. (THE LISTING OF COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE.) THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF BRIDGE SAFETY AND EVALUATION.	
COMPONENT OR DETAIL	STRUCTURE SHEET REFERENCE
NONE	NONE



**GENERAL NOTES:**  
**SPECIFICATIONS:** CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 817 (2019) SUPPLEMENTAL SPECIFICATIONS DATED JULY 2019 OR LATEST AT THE TIME OF BID AND SPECIAL PROVISIONS.  
**DESIGN SPECIFICATIONS:** AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (AASHTO EIGHTH EDITION, DATED 2017 INCLUDING INTERIM SPECIFICATIONS UP TO 2018), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003).  
**MATERIAL STRENGTHS:**  
 CONCRETE:  
 CLASS PCC 03340  $f_c = 3000$  P.S.I.  
 CLASS PCC 04462  $f_c = 4000$  P.S.I.  
 THE CONCRETE STRENGTH,  $f_c$ , USED IN DESIGN OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF 6.01 - CONCRETE FOR STRUCTURES, AND M.03 - PORTLAND CEMENT CONCRETE REINFORCEMENT.  
 ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS - GALVANIZED."  $f_y = 60,000$  P.S.I.  
**LIVE LOAD:** HL-93, LEGAL AND PERMIT VEHICLES  
**HMA OVERLAY:** SHALL CONSIST OF 2" (MIN.) HMA S0.5 ON 1" OF HMA S0.25 ON MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC).  
**FUTURE PAVING ALLOWANCE:** NONE  
**DIMENSIONS:** WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.  
**EXISTING DIMENSIONS:** DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR REVIEW, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.  
**STRUCTURE REMOVAL:** BEFORE INITIATING CONSTRUCTION, CONTRACTOR SHALL SUBMIT A PLAN FOR APPROVAL DEFINING METHOD FOR PROTECTION OF THE STREAM AREA DURING REMOVAL OF EXISTING BRIDGE. COST TO BE INCLUDED IN THE COST OF "REMOVAL OF SUPERSTRUCTURE".  
**COFFERDAMS AND DEWATERING:** BEFORE INITIATING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A PLAN FOR APPROVAL THAT DEFINES METHODS AND MATERIALS FOR CONTROLLING STREAM WATER (COFFERDAMS, ETC.), DEWATERING, STRUCTURE EXCAVATION AND PROTECTING THE STREAM DURING VARIOUS STAGES OF CONSTRUCTION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "COFFERDAM AND DEWATERING".  
**PRECAST CONCRETE THREE-SIDED CULVERT:** SEE SPECIAL PROVISIONS.  
**UTILITY RELOCATIONS:** OVERHEAD OR UNDERGROUND UTILITY LINES MAY BE IN CONFLICT WITH DRIVING SHEET PILING, THE SETTING OF PRECAST CULVERT SECTIONS AND OTHER CONSTRUCTION. DEPENDING UPON THE CONTRACTOR'S CONSTRUCTION OPERATIONS, THESE UTILITIES MAY NEED TO BE TEMPORARILY RELOCATED FOR PORTIONS OF THE CONSTRUCTION OPERATIONS AND THEN MOVED BACK TO PERMANENT LOCATIONS WHICH MAY BE OTHER THAN CURRENT LOCATIONS. EXCEPT FOR UTILITY WORK SPECIFICALLY INCLUDED IN THIS CONTRACT THE ACTUAL UTILITY RELOCATIONS (PERMANENT OR TEMPORARY) WILL BE THE RESPONSIBILITY OF THE INDIVIDUAL UTILITY OWNER, HOWEVER THE CONTRACTOR WILL BE REQUIRED TO COORDINATE ALL UTILITY RELOCATIONS WITH EACH UTILITY OWNER AND TO PHASE HIS WORK AS REQUIRED TO ACCOMMODATE TEMPORARY AND PERMANENT UTILITY RELOCATION WORK.

**CONCRETE NOTES:**  
**CONCRETE:** THE FOLLOWING PAY ITEMS AND CONCRETE CLASSES ARE REQUIRED FOR CAST-IN-PLACE BRIDGE COMPONENTS:

ITEM	BRIDGE COMPONENTS	PCC CLASS
FOOTING CONCRETE	WINGWALL AND ABUTMENT FOOTINGS	PCC03340
ABUTMENT AND WALL CONCRETE	WINGWALL STEMS AND ABUTMENT STEMS	PCC03340
PARAPET CONCRETE	BRIDGE AND APPROACH WALLS PARAPET	PCC04462

**JOINT SEAL:** SEE SPECIAL PROVISIONS.  
**EXPOSED EDGES:** EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"x1" UNLESS DIMENSIONED OTHERWISE  
**CONCRETE COVER:** ALL REINFORCEMENT SHALL HAVE MIN. 2" COVER UNLESS DIMENSIONED OTHERWISE.  
**REINFORCEMENT:** ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT SHALL BE INCLUDED IN THE ITEM " DEFORMED STEEL BARS-GALVANIZED."  
**CONSTRUCTION JOINTS:** CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

**PRECAST CONCRETE THREE-SIDED CULVERTS:**  
 FABRICATOR OF PRECAST CONCRETE THREE-SIDED CULVERT SHALL BE REQUIRED TO PROVIDE SHOP DRAWINGS. IF THERE ARE ANY DESIGN CHANGES, THE FABRICATOR SHALL SUBMIT DESIGN CALCULATIONS AND LOAD RATING CALCULATIONS PREPARED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT FOR REVIEW AND APPROVAL. LOAD RATINGS SHALL BE PROVIDED FOR THE INVENTORY & OPERATING LOAD CASES UTILIZING THE LOAD AND RESISTANCE FACTOR RATING (LRFR) METHOD AS FOLLOWS:  

<b>LOAD CASE</b>	<b>VEHICLE</b>
INVENTORY	PER CT DOT LOAD RATING MANUAL
OPERATING	PER CT DOT LOAD RATING MANUAL
AVERAGE DAILY TRUCK TRAFFIC (ADTT) <100	

NO.	DATE	DESCRIPTION
<b>REVISIONS</b>		

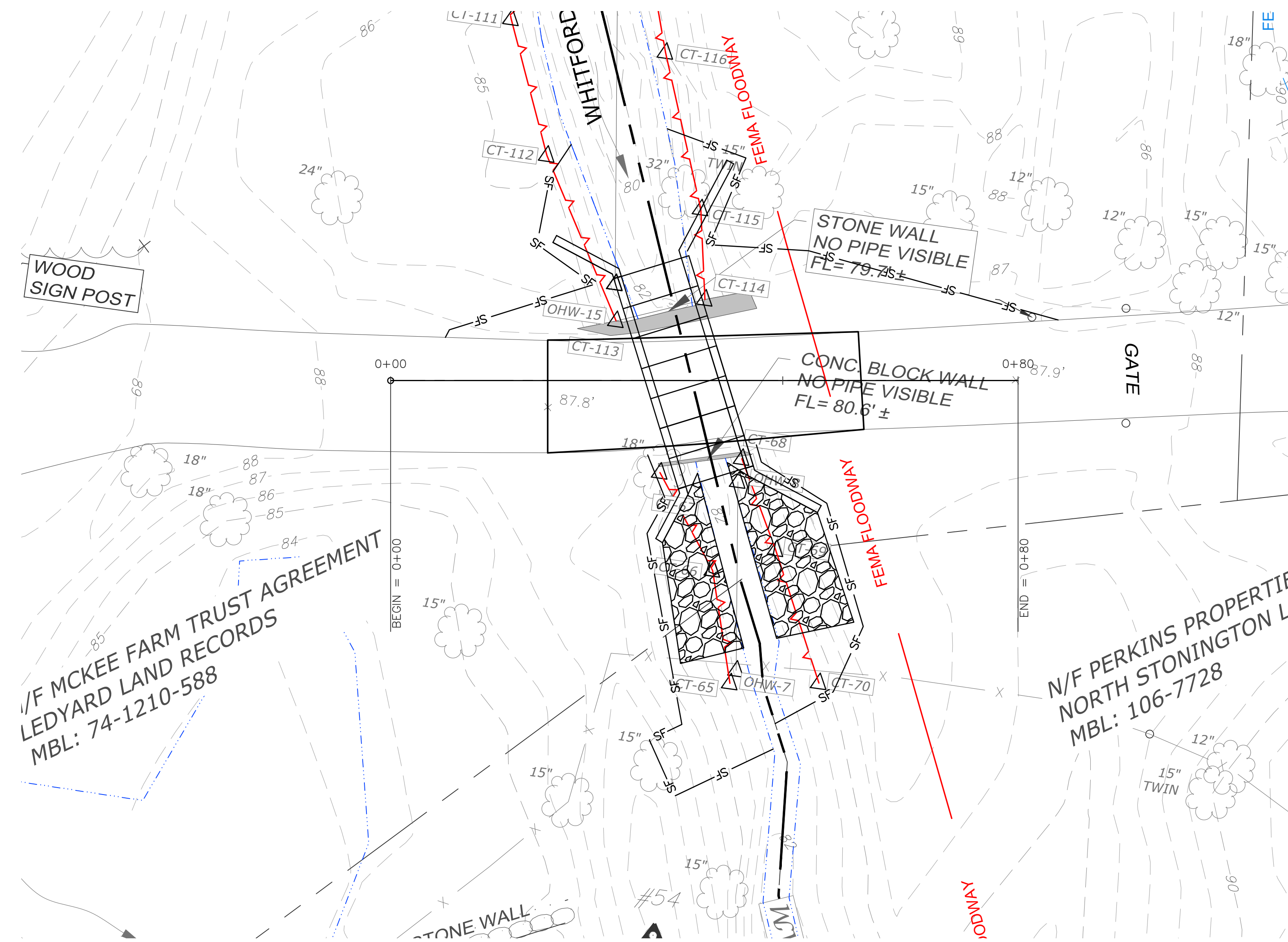
SUPV.	K.O.E.
DESIGN	R.I.
DRAWN	D.T.J.
CHECKED	M.E.F.
DATE	04/02/2026

**WMC**  
CONSULTING ENGINEERS  
 WENGELL, McDONNELL & COSTELLO  
 87 HOLMES ROAD  
 NEWINGTON, CT 06111  
 (860) 667-9624

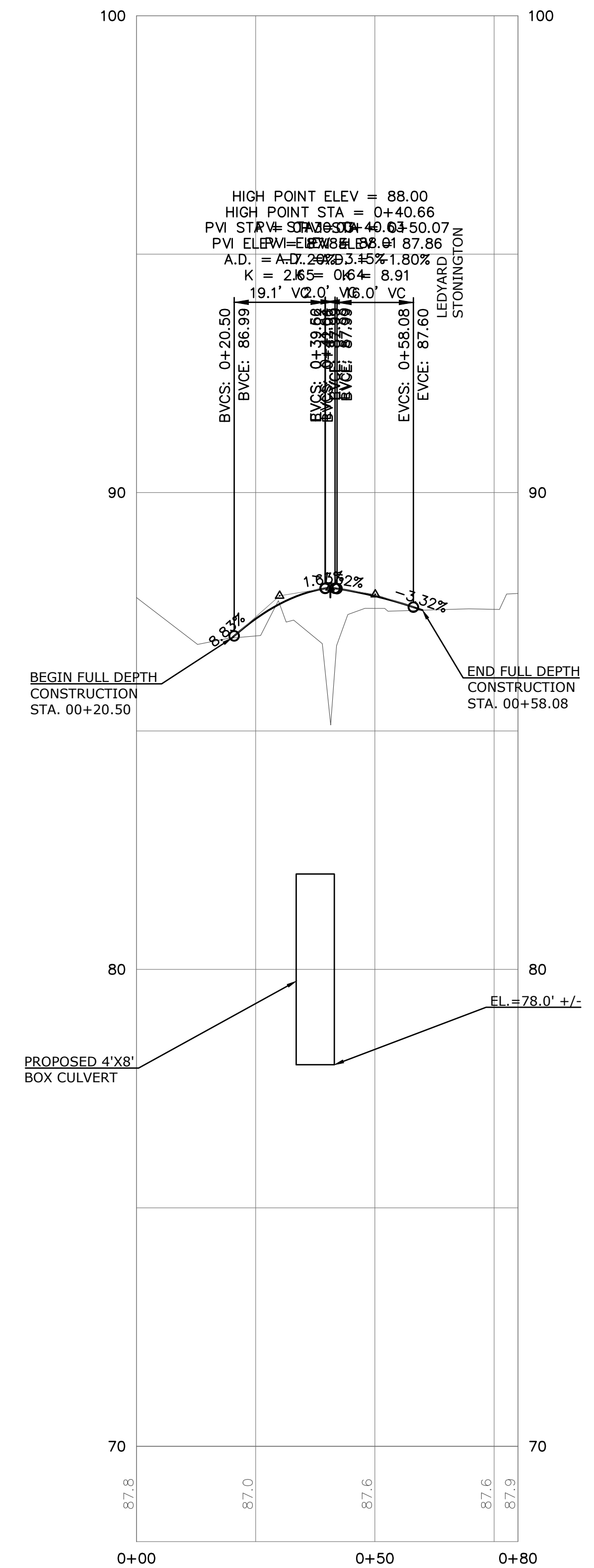
**PREPARED FOR**  
 TOWN OF NORTH STONINGTON/LEDYARD  
 40 MAIN STREET/ 741 COLONEL HIGHWAY  
 NORTH STONINGTON, CT 06359 / LEDYARD, CT 06339

**IMPROV. TO WHITFORD BROOK WATERSHED CULVERT**  
**STRUCTURE PLAN, SECTION & ELEVATION**

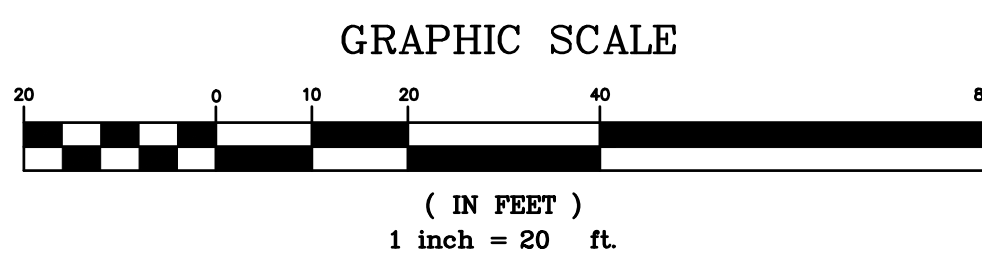
D	SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	SHEET
D	LANTERN HILL	S.F.D.	23016				8



**PLAN VIEW**  
SCALE: 1" = 10'-0"



**PROFILE**  
SCALE: 1" = 20'-0"



		SUPV.	K.O.E.
		DESIGN	R.I.
		DRAWN	D.T.J.
		CHECKED	M.E.F.
NO.	DATE	DESCRIPTION	DATE
		<b>REVISIONS</b>	04/02/2026

**WMC**  
CONSULTING ENGINEERS  
• WENGELL, McDONNELL & COSTELLO •  
87 HOLMES ROAD  
NEWINGTON, CT 06111  
(860) 667-9624

**PREPARED FOR**  
TOWN OF NORTH STONINGTON/LEDYARD  
40 MAIN STREET/ 741 COLONEL HIGHWAY  
NORTH STONINGTON, CT 06359 / LEDYARD, CT 06339

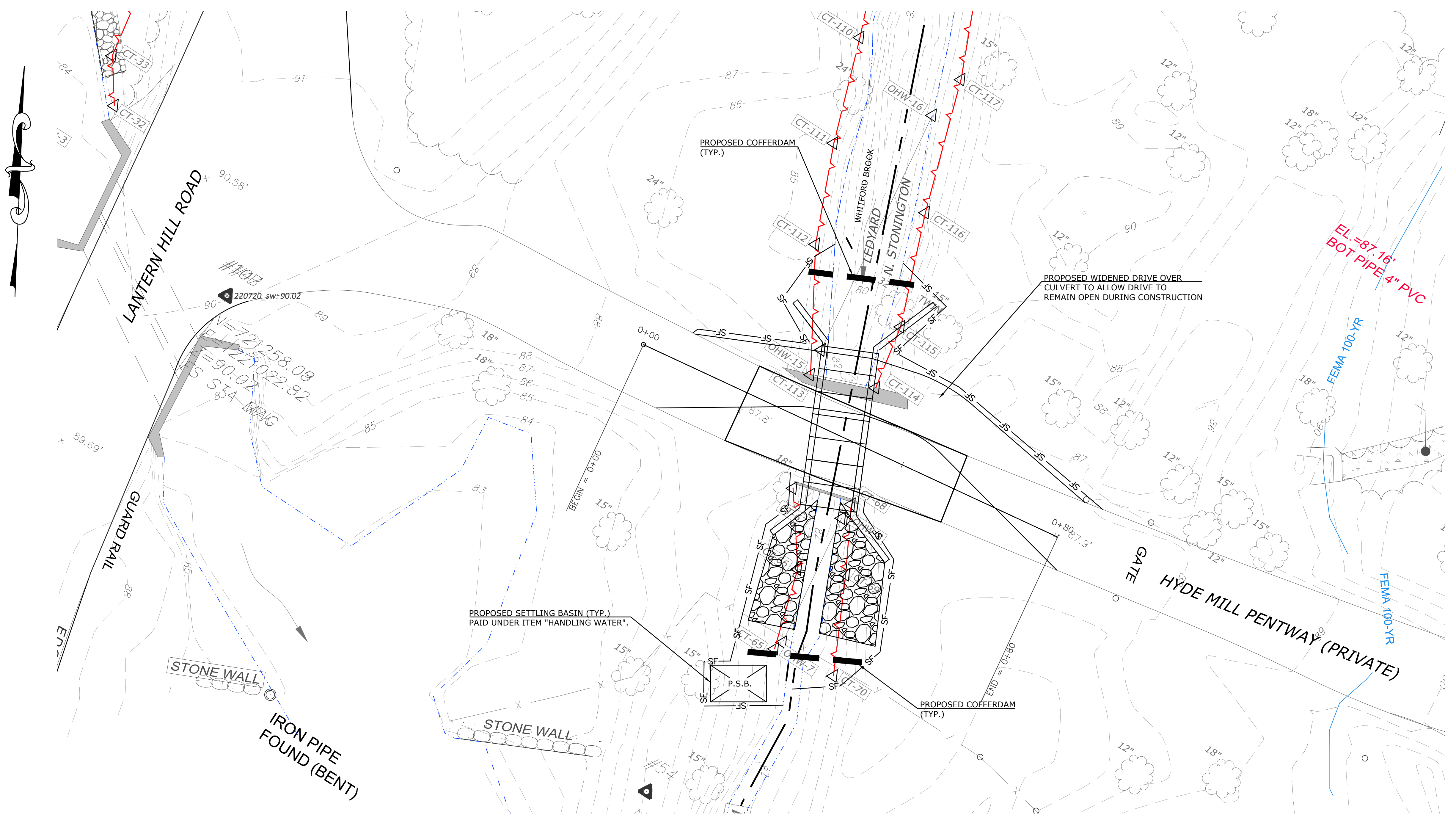
<b>IMPROV. TO WHITFORD BROOK WATERSHED CULVERT ROADWAY PROFILE</b>			
D	LANTERN HILL	S.F.D.	23016
SIZE	PROJECT	FILE NAME	NUMBER
		REV.	OF
			12

- WATER HANDLING NOTES:**
1. THE CONTRACTOR SHALL MAINTAIN WATER THROUGH THE TEMPORARY BYPASS PIPE AND WATER-HANDLING-COFFERDAMS AS SHOWN DURING CONSTRUCTION.
  2. EQUIPMENT SHALL NOT BE PERMITTED IN THE STREAM WHEN TEMPORARY COFFERDAMS ARE NOT IN PLACE WITHOUT THE APPROVAL OF THE ENGINEER.
  3. PRIOR TO ANY DEWATERING, THE CONTRACTOR MUST SUBMIT TO THE ENGINEER A WRITTEN PROPOSAL FOR SPECIFIC METHODS AND DEVICES TO BE USED AND MUST OBTAIN THE ENGINEER'S WRITTEN APPROVAL OF SUCH METHODS AND DEVICES.
  4. WATER-HANDLING-COFFERDAMS SHALL CONSIST OF ANY APPROVED SYSTEM THAT THE CONTRACTOR ELECTS TO USE WHICH WILL SAFELY PROTECT THE CONSTRUCTION AREA FROM THE TEMPORARY DESIGN DISCHARGE ELEVATION, SHALL BE ABLE TO SUPPORT CONSTRUCTION ACTIVITY AND EXCAVATION, AND SHALL CONFORM TO PERMITS.
  5. ANY SURFACE RUNOFF OR GROUNDWATER DISCHARGING INTO A CONFINED WORK AREA SHALL BE DIVERTED OR PUMPED OUTSIDE THE CONFINED AREAS. THE CONTRACTOR SHALL SUBMIT THE MEANS AND METHODS OF HANDLING THE DISCHARGE TO THE ENGINEER FOR APPROVAL. WORK PAID UNDER "HANDLING WATER".
  6. THE INSTALLATION, MAINTENANCE AND REMOVAL OF THE PROPOSED SETTLING BASIN SHALL BE PAID FOR UNDER ITEM "HANDLING WATER".

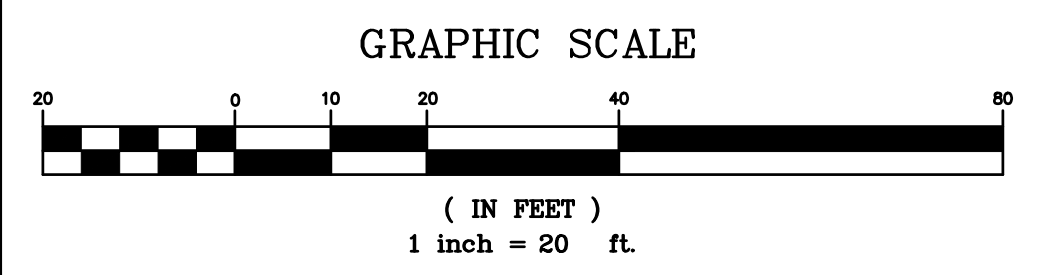
- SUGGESTED CONSTRUCTION SEQUENCE NOTES:**
- 1) RECONFIGURATION OF POWER AND COMMUNICATION SERVICES TO BE COMPLETED PRIOR TO CONSTRUCTION.
  - 2) DAM, FISHWAY & SPILLWAY CONSTRUCTION TO BE COMPLETED PRIOR TO CULVERT CONSTRUCTION.
  - 3) MOBILIZE AND INSTALL CONSTRUCTION SIGNS.
  - 4) INSTALL SEDIMENTATION AND EROSION CONTROLS AS SHOWN IN THE PLANS OR AS APPROVED/DIRECTED BY THE ENGINEER.
  - 5) PERFORM ADDITIONAL CLEARING AND GRUBBING.
  - 6) INSTALL TEMPORARY TRAFFIC BARRIERS AND CLOSE HYDE MILL PENTWAY TO TRAFFIC STARTING ON XX/XX/XXXX AND ENDING ON XX/XX/XXXX. THE CONTRACTOR IS EXPECTED TO COMPLETE ALL MAJOR BRIDGE REMOVAL AND CONSTRUCTION TASKS DURING THIS TIME.
  - 7) REOPEN ROAD TO TRAFFIC ON XX/XX/XXXX.
  - 8) COMPLETE ANY REMAINING CONSTRUCTION ACTIVITY UTILIZING POLICE CONTROLLED ALTERNATING ONE-WAY FOR THE DURATION OF THE PROJECT. ALL OBSTRUCTION AND OBSTACLE MUST BE CLEARED FROM TRAVEL-WAY DURING NONWORKING HOURS.

**NOTES:**

- WATER WILL BE PUMPED AS REQUIRED DURING THE CONSTRUCTION.



**HANDLING WATER PLAN - CULVERT**  
SCALE: 1" = 10'-0"



SUPV.	K.O.E.	
DESIGN	R.I.	
DRAWN	D.T.J.	
CHECKED	M.E.F.	
DATE	04/02/2026	
<b>REVISIONS</b>		
NO.	DATE	DESCRIPTION

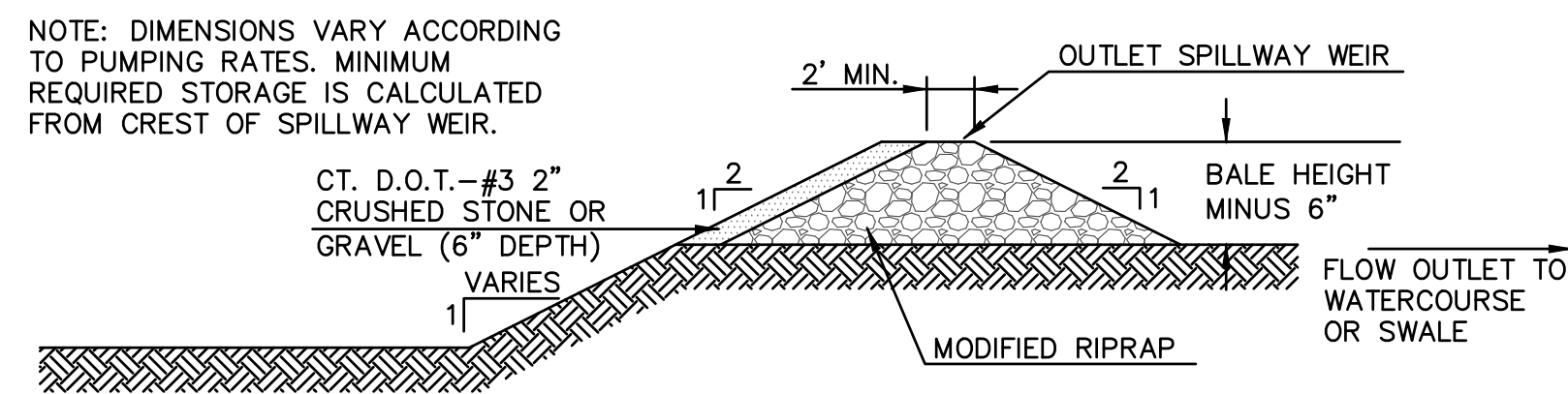
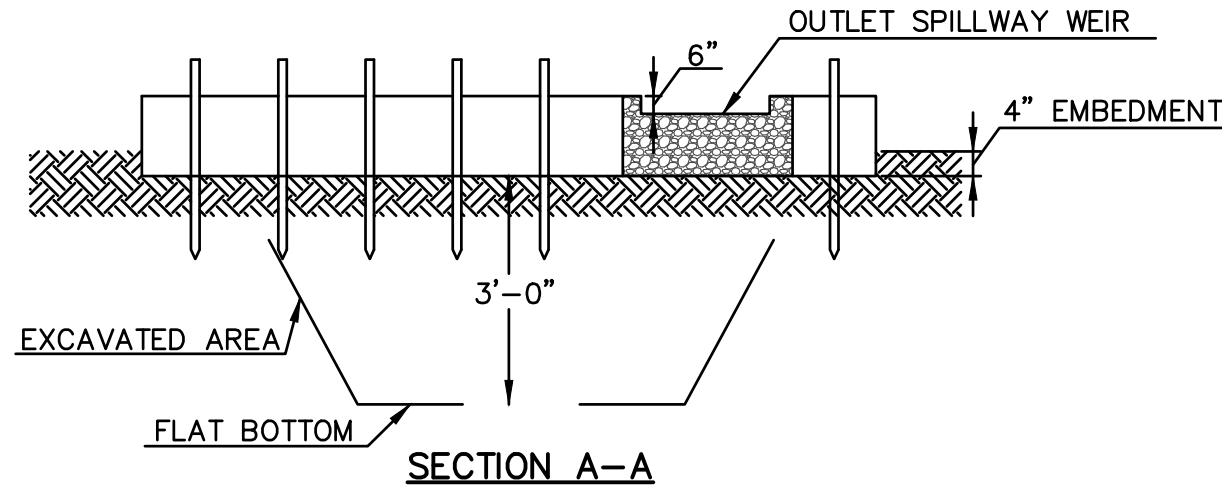
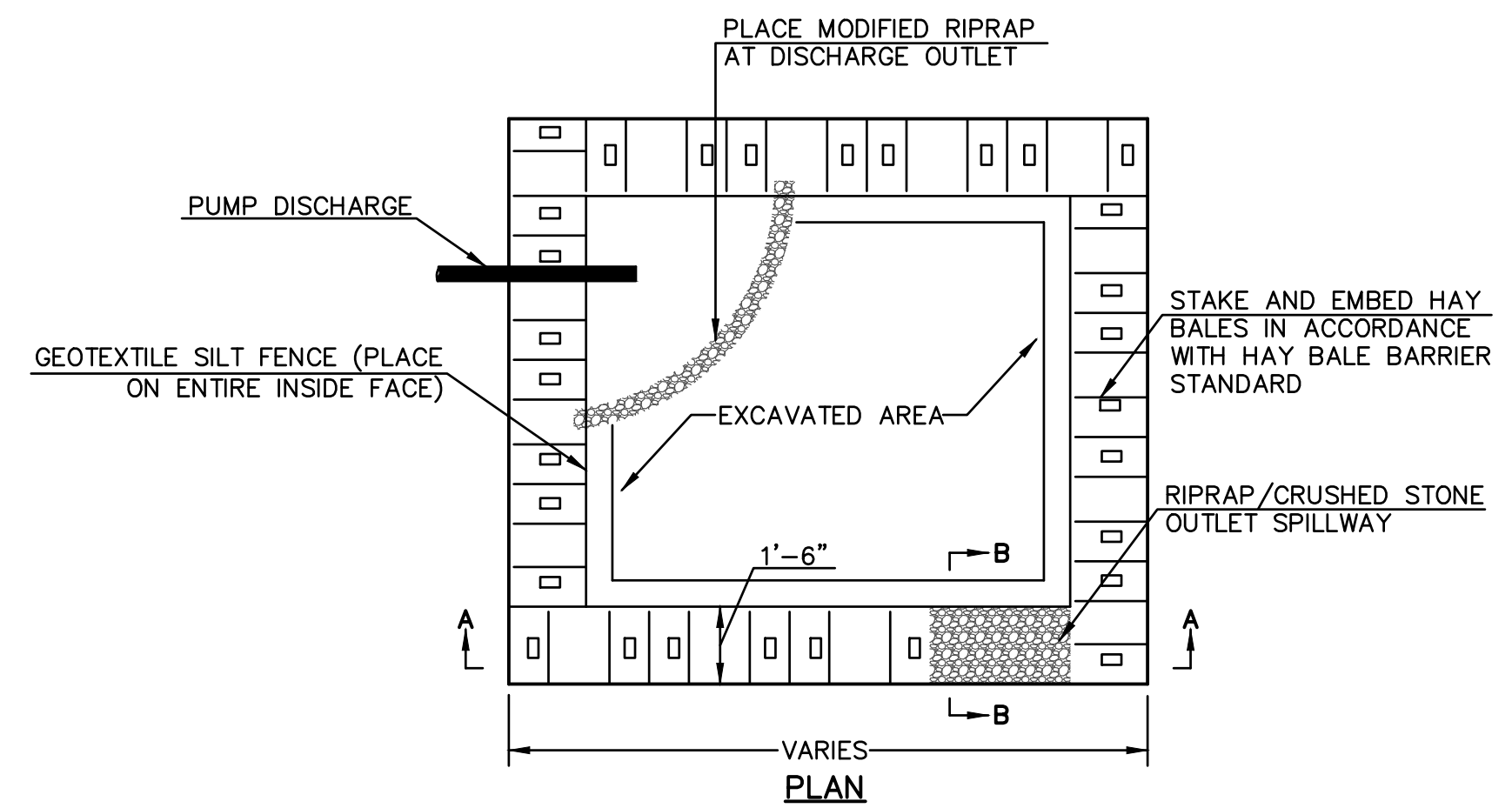
--	--	--	--	--	--

**WMC**  
CONSULTING ENGINEERS

• WENGELL, McDONNELL & COSTELLO •  
87 HOLMES ROAD  
NEWINGTON, CT 06111  
(860) 667-9624

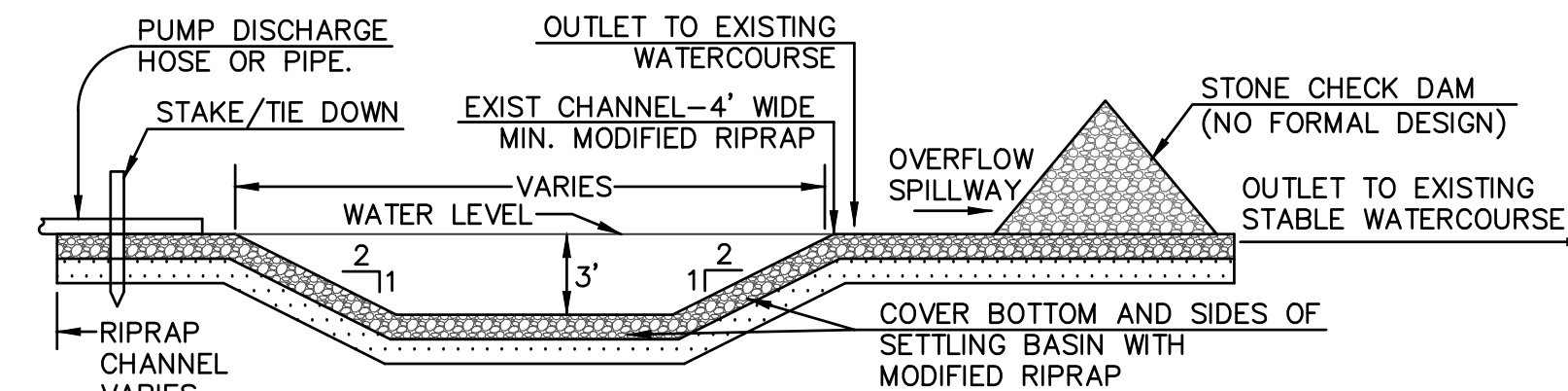
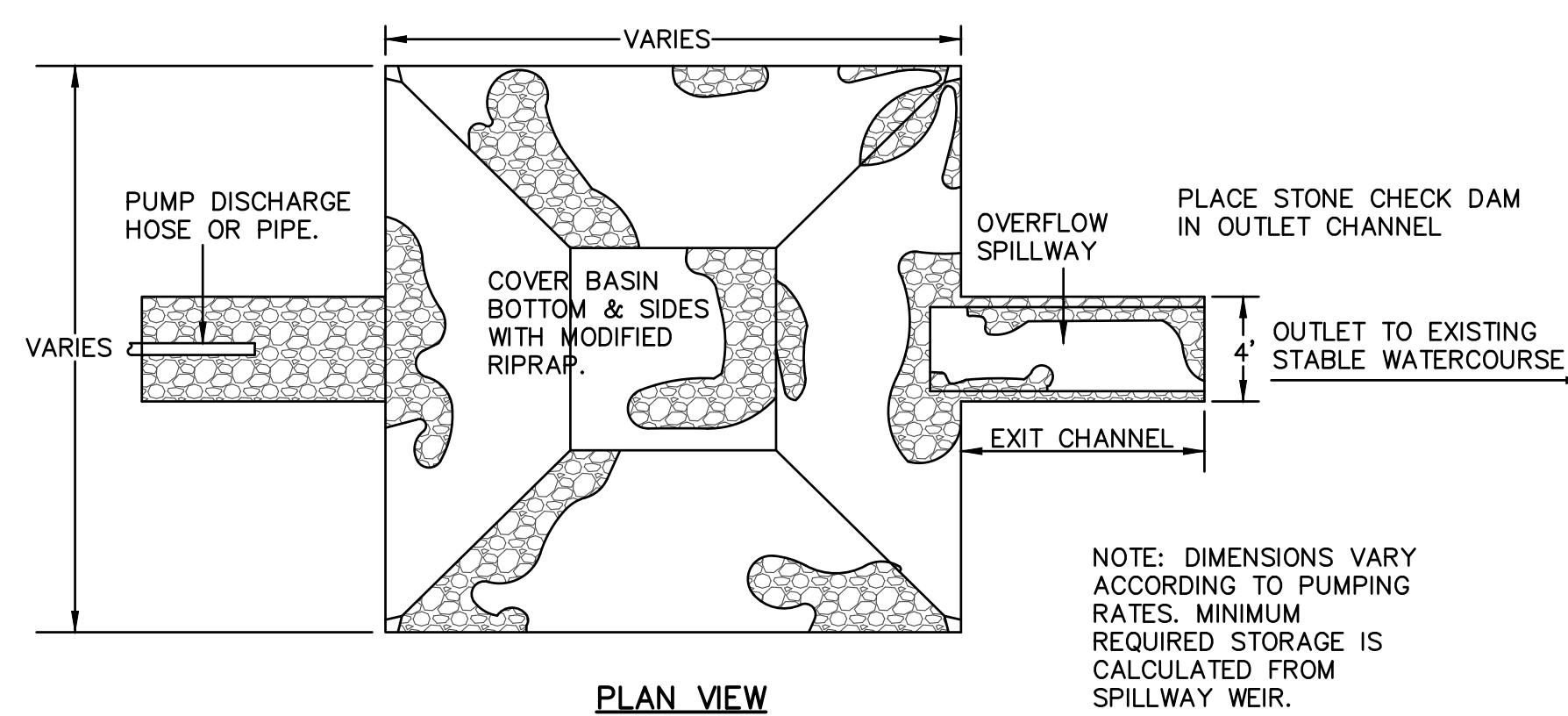
**PREPARED FOR**  
TOWN OF NORTH STONINGTON/LEDYARD  
40 MAIN STREET/ 741 COLONEL HIGHWAY  
NORTH STONINGTON, CT 06359 / LEDYARD, CT 06339

<b>IMPROV. TO WHITFORD BROOK WATERSHED BUSH POND HANDLING WATER PLAN - CULVERT</b>				SHEET	10
D	LANERN HILL	S.F.D.	23016	REV.	OF
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF

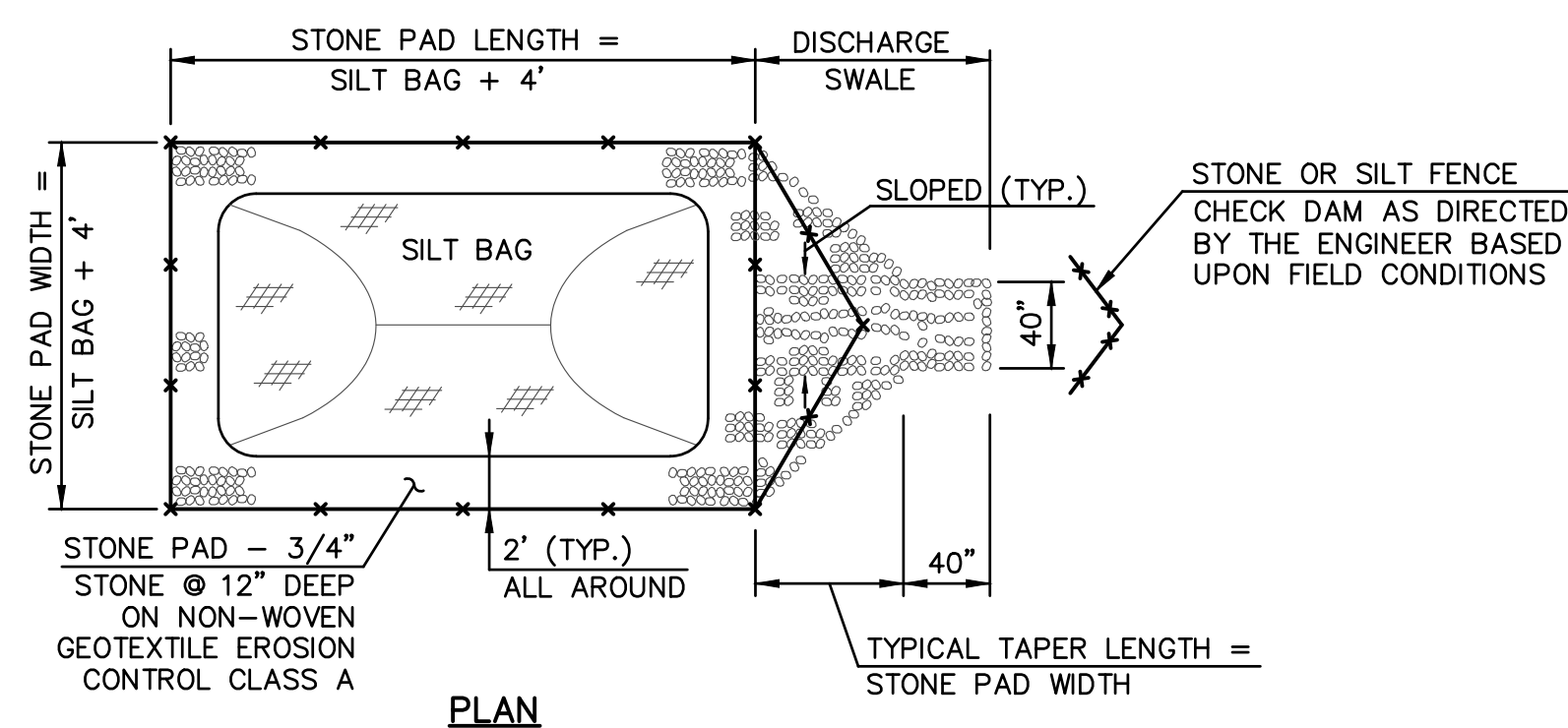
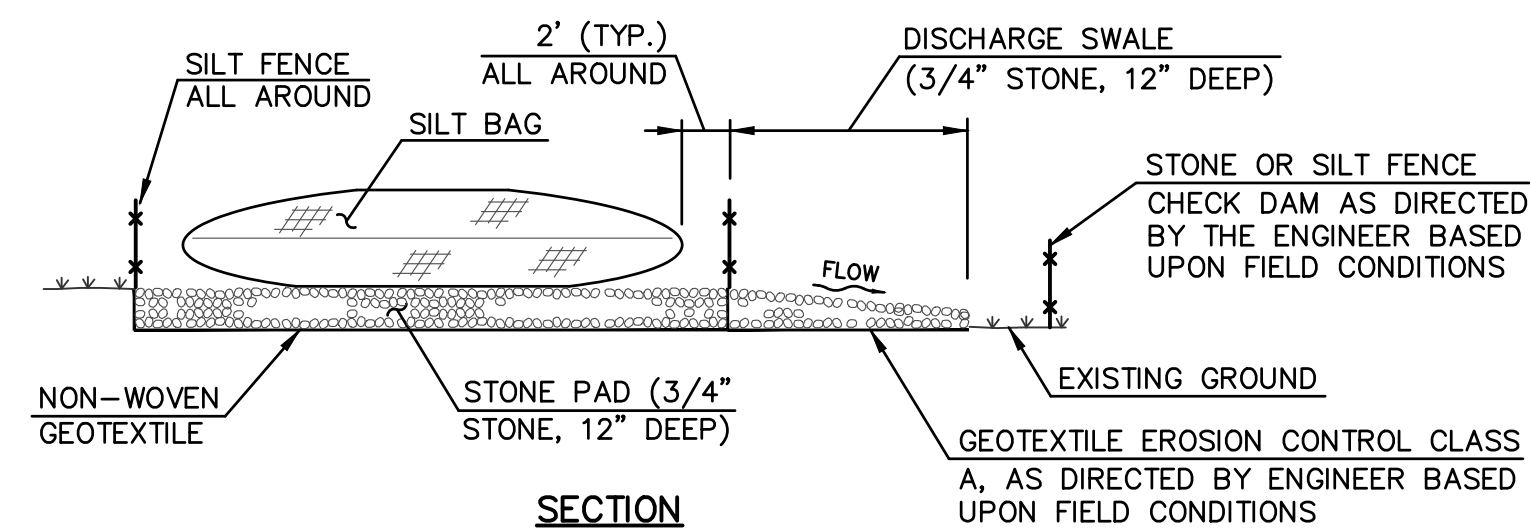


**SECTION B-B**  
REFER TO PAGE 5-13-7 "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL".  
**TYPE II PUMPING SETTLING BASIN**  
N.T.S.

**PUMPING SETTLING BASIN NOTES:**  
1. LOCATION AS DIRECTED BY ENGINEER. REMOVE WHEN PUMPING IS COMPLETED.  
2. PUMP DISCHARGE PAD SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST THE GENERAL WORK.  
3. STORAGE VOLUME BASED UPON PUMP DISCHARGE, LARGER PAD DIMENSIONS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.  
(MINIMUM REQUIRED STORAGE, CUBIC FEET) = 16 x (PUMP DISCHARGE RATE, GPM)  
4. TYPE II PUMPING SETTLING BASIN TO BE USED WHEN THE EXPECTED DURATION OF USE IS LESS THAN 3 MONTHS. TYPE III PUMPING SETTLING BASIN TO BE USED WHEN THE EXPECTED DURATION OF USE IS LONGER THAN 3 MONTHS.  
5. SETTLING BASIN AND EXIT CHANNEL TO BE BACKFILLED AT COMPLETION OF WORK. AREA SHALL BE GRADED AND STABILIZED ACCORDING TO PLANS OR AS DIRECTED BY THE ENGINEER.



**PROFILE**  
REFER TO PAGE 5-13-7 "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL".  
**TYPE III PUMPING SETTLING BASIN**  
N.T.S.



**PLAN**  
**SILT BAG INSTALLATION**  
N.T.S.

**GENERAL**

EFFLUENT FROM DEWATERED WORK AREA(S) SHOULD NOT BE DISCHARGED DIRECTLY TO THE STREAM BUT BE PROCESSED THROUGH TREATMENT STRUCTURE(S). SUCH STRUCTURES SHOULD NOT BE LOCATED WITHIN THE STREAM CHANNEL OR ADJACENT WETLANDS.

THE PROJECT SHOULD NOT BE CONDUCTED IN A MANNER WHICH IMPEDES STREAM FLOW.

UNCONFINED IN-STREAM ACTIVITIES SHOULD BE LIMITED TO THE TIME PERIOD JUNE 1 THROUGH SEPTEMBER 30.

EQUIPMENT OPERATING IN WETLANDS - OPERATION OF EQUIPMENT IN WETLAND AREAS IS NOT ALLOWED AND MUST BE APPROVED IN ADVANCE. ANY EQUIPMENT OPERATING IN WETLAND AREAS SHALL BE LOW GROUND PRESSURE (LESS THAN 3 PSI) OR SHALL BE SET ON TEMPORARY FILL OR MATTING. TEMPORARY FILL, TIMBER MATTING OR OTHER MATTING MUST BE APPROVED IN ADVANCE AND WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE GENERAL COST OF OTHER RELATED WORK ITEMS.

TEMPORARY FILL - PLACEMENT OF TEMPORARY FILL IN WETLAND AREAS THAT IS NOT SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS IS NOT ALLOWED AND MUST BE APPROVED IN ADVANCE. ANY TEMPORARY FILL APPROVED FOR PLACEMENT, SHALL BE PLACED ON GEOTEXTILE LAID ON THE PRE-CONSTRUCTION WETLAND GRADE. UNCONFINED TEMPORARY FILL THAT IS PLACED IN THE FLOWING WATER SHALL BE ONLY CLEAN WASHED STONE.

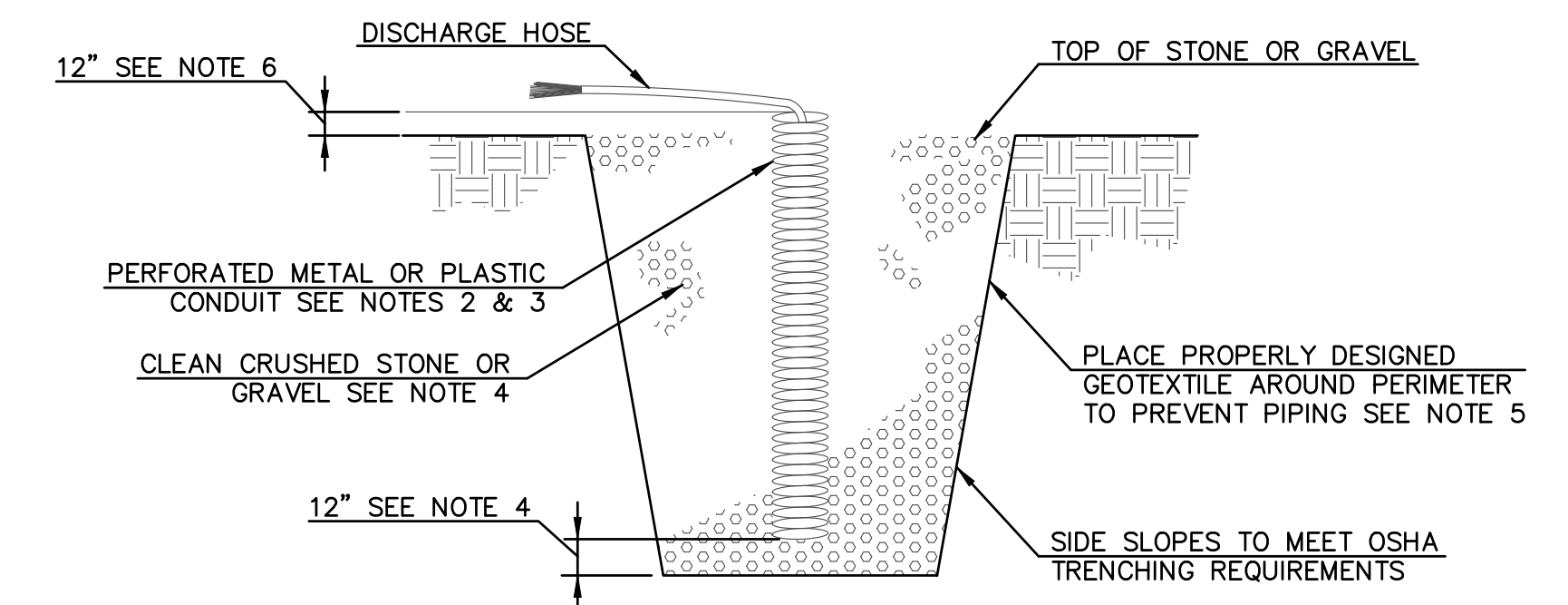
WETLAND DISTURBANCE - ONLY THOSE WETLANDS SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS OR INCLUDED IN APPROVED PERMITS TO BE DISTURBED, OR ADDITIONAL AREAS SPECIFICALLY APPROVED AS ABSOLUTELY NECESSARY TO COMPLETE THE PROPOSED WORK, SHALL BE DISTURBED.

**COFFERDAM NOTES**

1. A CONSTRUCTION SEQUENCING PLAN AND A WATER HANDLING PLAN INCLUDING A CONTINGENCY PLAN FOR FLOOD EVENTS MUST BE SUBMITTED IN WRITING TO THE ENGINEER AND APPROVED BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION IN A WATERWAY.

2. TEMPORARY COFFERDAM SHALL BE DESIGNED AND INSTALLED BY THE CONTRACTOR TO PROVIDE A MAXIMUM HEIGHT ABOVE THE STREAM BED AS NECESSARY TO RETAIN A 3 YEAR STORM EVENT. THE MAXIMUM TOP OF TEMPORARY COFFERDAM ELEVATION SHALL BE AS DESIGNATED ON THE HANDLING WATER PLANS.

3. TEMPORARY COFFERDAM AND PUMPING NOT PAID SEPARATELY. COST TO BE INCLUDED IN THE PAY ITEM "COFFERDAM AND DEWATERING".



REFER TO PAGE 5-13-3 "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL".

**NOTE:**  
1. OVERALL SUMP PIT DIMENSIONS SHALL BE COMPATIBLE WITH ANTICIPATED SEEPAGE RATES AND PUMP SIZE TO BE USED.  
2. THE STANDPIPE DIAMETER AND NUMBER OF PERFORATIONS SHALL BE COMPATIBLE WITH THE PUMP SIZE BEING USED.  
3. PERFORATIONS IN THE STANDPIPE SHALL BE EITHER CIRCULAR OR SLOTS. PERFORATION SIZE SHALL NOT EXCEED 1/2" IN DIAMETER.  
4. CRUSHED STONE OR GRAVEL SHALL BE NO SMALLER THAN CT DOT #67 SIZE NOR LARGER THAN CT DOT #3 SIZE. CRUSHED STONE SHALL EXTEND A MINIMUM OF 12" BELOW THE BOTTOM OF THE STANDPIPE.  
5. IF EXCESSIVE MOVEMENT OF FINE SOIL PARTICLES FROM THE SURROUNDING EXISTING SOILS IS ANTICIPATED, A PROPERLY DESIGNED GEOTEXTILE SHALL BE PLACED BETWEEN THE EXISTING SOILS AND THE CRUSHED STONE OR GRAVEL BACKFILL.  
6. THE STANDPIPE SHALL EXTEND A MINIMUM OF 12" ABOVE THE SURROUNDING GROUND.

**TYPICAL SECTION OF SUMP PIT**  
N.T.S.

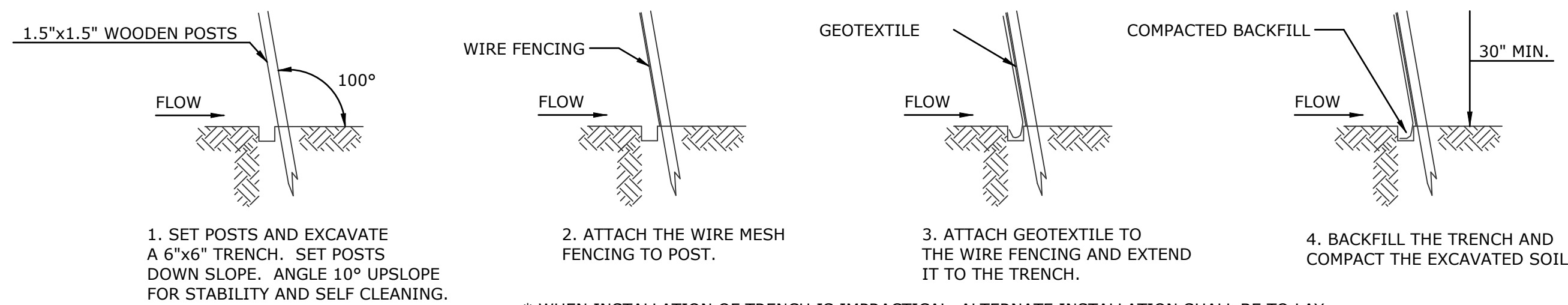
		SUPV.	K.O.E.
		DESIGN	R.I.
		DRAWN	D.T.J.
		CHECKED	M.E.F.
NO.	DATE	DESCRIPTION	
<b>REVISIONS</b>			
		DATE	04/02/2026

**WMC**  
CONSULTING ENGINEERS  
WENGELL, McDONNELL & COSTELLO  
87 HOLMES ROAD  
NEWINGTON, CT 06111  
(860) 667-9624

**PREPARED FOR**  
TOWN OF NORTH STONINGTON/LEDYARD  
40 MAIN STREET/ 741 COLONEL HIGHWAY  
NORTH STONINGTON, CT 06359 / LEDYARD, CT 06339

**IMPROV. TO WHITFORD BROOK WATERSHED BUSH POND HANDLING WATER - DETAILS**

D	LANTERN HILL	S.F.D.	23016		SHEET	11
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	12

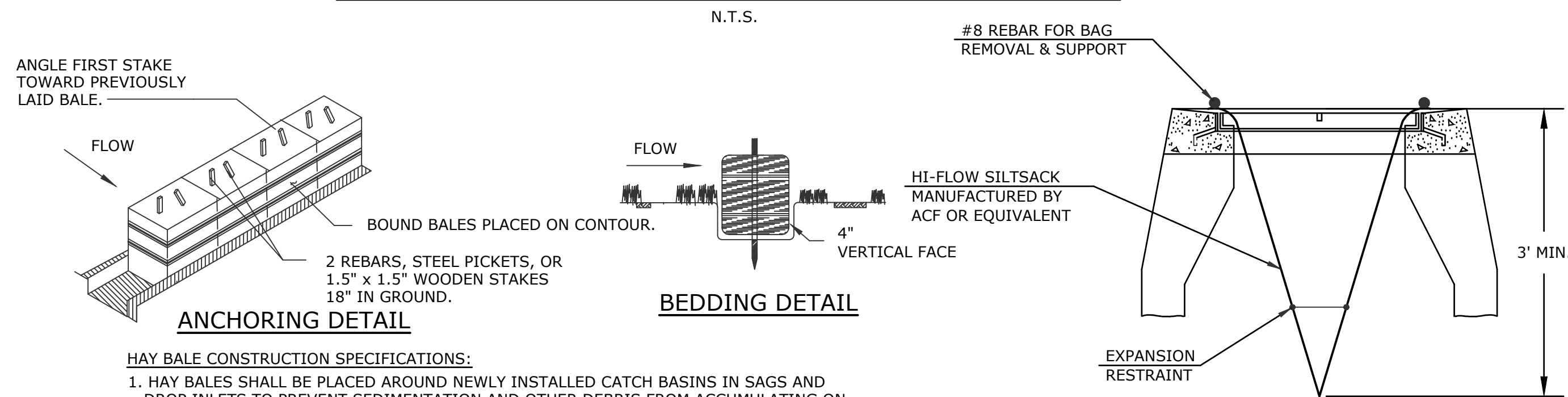


\* WHEN INSTALLATION OF TRENCH IS IMPRACTICAL, ALTERNATE INSTALLATION SHALL BE TO LAY 6" FLAP HORIZONTALLY ON GROUND AND BURY FLAP BY RAMP SOIL OR STONE UP TO CONTROL FENCE. DEPTH OF RAMP SHALL BE AS REQUIRED TO HOLD DOWN FLAP WITHOUT LEAKAGE UNDER CONTROL FENCE WHILE MAINTAINING MINIMUM HEIGHT.

**GEOTEXTILE FENCE SYSTEM**

REFER TO PAGE 5-11-35 "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL" AND PAGE 55 "ON-SITE MITIGATION FOR CONSTRUCTION ACTIVITIES".

**SEDIMENTATION CONTROL SYSTEM INSTALLATION**



**ANCHORING DETAIL**

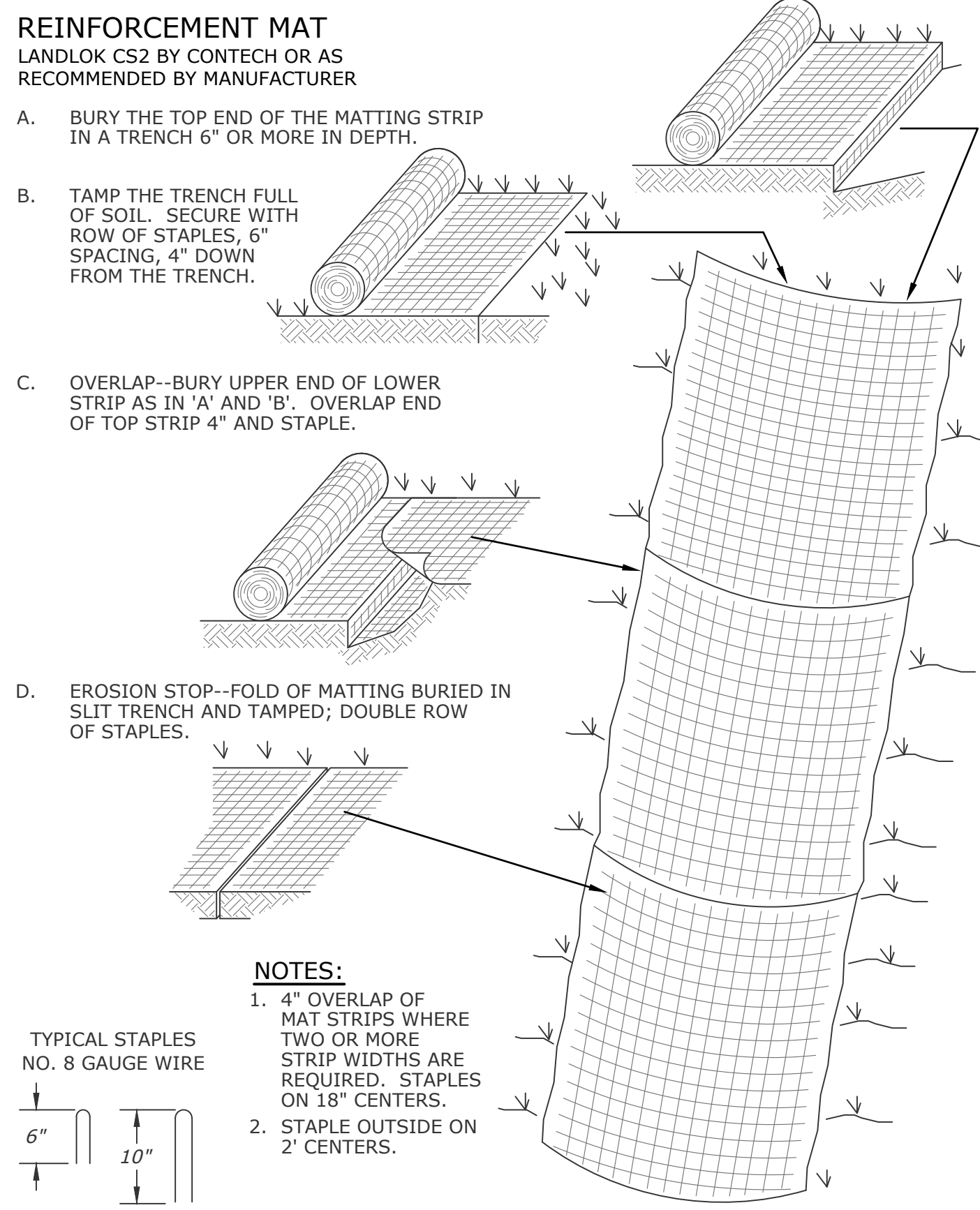
**HAY BALE CONSTRUCTION SPECIFICATIONS:**

- HAY BALES SHALL BE PLACED AROUND NEWLY INSTALLED CATCH BASINS IN SAGS AND DROP INLETS TO PREVENT SEDIMENTATION AND OTHER DEBRIS FROM ACCUMULATING ON THE GRATE OR IN THE SUMP. HAY BALES SHOULD BE KEPT CLEAN AND FREE OF DEBRIS TO FACILITATE FLOW.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4", AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

**BEDDING DETAIL**

SILTSACKS SHALL BE EMPTIED WHEN THEY HAVE COLLECTED 1 TO 1.5 FEET OF SEDIMENT. INSPECT EVERY WEEK OR AFTER EVERY RAINFALL EVENT.

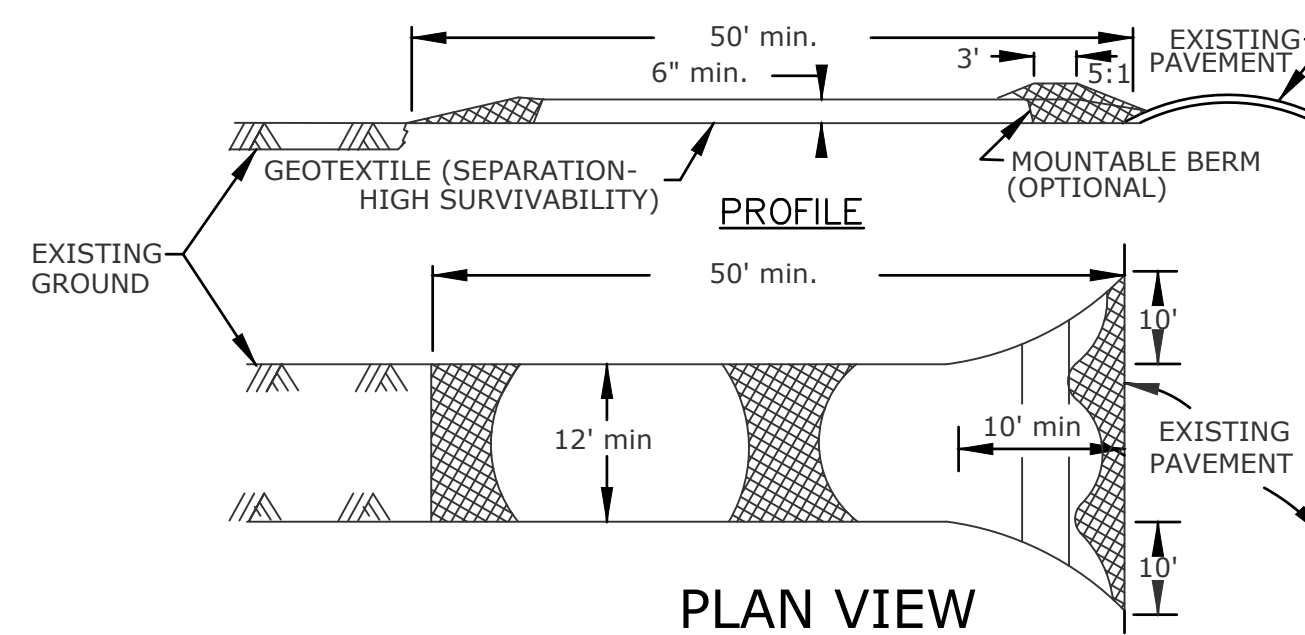
**SILTATION SAC IN CATCH BASIN**



TYPICAL STAPLES NO. 8 GAUGE WIRE

- NOTES:**
- 4" OVERLAP OF MAT STRIPS WHERE TWO OR MORE STRIP WIDTHS ARE REQUIRED. STAPLES ON 18" CENTERS.
  - STAPLE OUTSIDE ON 2' CENTERS.

**STEEP SLOPE TREATMENT DETAIL**



REFER TO PAGE 5-12-2 "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL" AND PAGE 50 "ON-SITE MITIGATION FOR CONSTRUCTION ACTIVITIES".

**CONSTRUCTION SPECIFICATION:**

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FT (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN 6".
- WIDTH - 12" MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. GEOTEXTILE WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SETTLING AREA SIZED TO HOLD THE VOLUME OF WATER USED DURING ANY 2-HOUR PERIOD.
- PERIODIC INSPECTION AND NECESSARY MAINTENANCE SHALL BE PROVIDED AFTER EACH RAINFALL.

**STABILIZED CONSTRUCTION ENTRANCE**

N.T.S.

**GENERAL**

THIS PLAN PROPOSES EROSION CONTROL MEASURES TO HELP CONTROL ACCELERATED EROSION AND SEDIMENTATION AND REDUCE THE DANGER FROM STORM WATER RUNOFF AT THE SITE. THE RUNOFF SHALL BE CONTROLLED BY THE INTERCEPTION, DIVERSION, AND SAFE DISPOSAL OF PRECIPITATION. RUNOFF SHALL ALSO BE CONTROLLED BY STAGING CONSTRUCTION ACTIVITY AND PRESERVING NATURAL VEGETATION WHENEVER POSSIBLE. EXISTING VEGETATION SHALL BE PROTECTED AND ONLY THAT CLEARING AND GRUBBING ABSOLUTELY NECESSARY FOR THE PROPOSED CONSTRUCTION SHALL BE PERFORMED. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOUR, UNLESS OTHERWISE INDICATED ON THE PLANS. THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH HIS CONSTRUCTION METHODS AND SHALL COMPLY WITH THE FOLLOWING GUIDELINES. REFERENCE IS MADE TO THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL" (2002), AS AMENDED. THE GUIDELINES ARE OBTAINABLE FROM THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, 79 ELM STREET, HARTFORD, CONNECTICUT 06106, AND SHOULD BE USED AS A REFERENCE IN CONSTRUCTING THE EROSION AND SEDIMENTATION CONTROLS INDICATED ON THESE PLANS.

**EROSION CONTROL**

ALL AREAS SHALL BE PROTECTED FROM EROSION DURING AND AFTER CONSTRUCTION, PARTICULARLY THE STORAGE OF EXCAVATED OR STOCKPILED MATERIAL. THE CONTRACTOR SHALL CAREFULLY STRIP ALL TOPSOIL, LOAM, OR ORGANIC MATTER PRIOR TO TRENCHING OR OTHER OPERATIONS AND SHALL STORE THEM SEPARATELY FROM ALL OTHER MATERIALS DURING EXCAVATION. EACH STOCKPILE MUST BE ADEQUATELY RINGED WITH SEDIMENTATION CONTROL SYSTEM (I.E. HAY BALES AND/OR GEOTEXTILE FENCE). DEBRIS AND OTHER WASTE RESULTING FROM EQUIPMENT MAINTENANCE AND CONSTRUCTION WILL NOT BE DISCARDED ON SITE. STABILIZING OF SLOPES SHALL BE DONE IMMEDIATELY AFTER CONSTRUCTION OF SLOPES. SLOPES STEEPER THAN 3:1 SHALL BE PROTECTED WITH EROSION CONTROL MATTING. THIS MATTING IS MANUFACTURED COMBINATIONS OF MULCH AND NETTING AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL OTHER AREAS SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 2 TO 3 TONS PER ACRE. STRAW OR HAY MULCH MUST BE ANCHORED IMMEDIATELY AFTER SPREADING TO PREVENT WINDBLOWING. THE METHODS RECOMMENDED BY THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL" SHALL BE USED FOR THE ANCHORING OF MULCH OR NETTING.

**EROSION AND SEDIMENTATION CONTROL PLAN**

AN EROSION AND SEDIMENTATION CONTROL PLAN MUST BE SUBMITTED IN WRITING TO THE ENGINEER AND APPROVED BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. SEDIMENTATION CONTROL SYSTEM - THE SEDIMENTATION CONTROL SYSTEM SHALL CONSIST OF A GEOTEXTILE BARRIER FENCE. THE SEDIMENTATION CONTROL SYSTEM SHALL BE INSTALLED IMMEDIATELY AFTER A CUT SLOPE HAS BEEN GRADED, BEFORE A FILL SLOPE HAS BEEN CREATED AND AS INDICATED ON THE PLANS. THE SYSTEM IS DESIGNED TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES THE WETLANDS OR WATERCOURSES. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. THE SEDIMENTATION CONTROL SYSTEM IS TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE FENCE ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

STACKED HAY BALES - HAY OR STRAW BALES USED FOR EROSION CONTROL SHALL BE STACKED AT CATCH BASINS WHERE SEDIMENT MAY ENTER THE CATCH BASIN OR AS DIRECTED BY THE ENGINEER. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE EROSION CHECKS. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. HAY OR STRAW BALES ARE TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE EROSION CHECKS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

IN ALL AREAS, REMOVAL OF TREES, BUSHES, AND OTHER VEGETATION, AND DISTURBANCE OF THE SOIL, IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE.

DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED FOR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RE-SPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING AS TO PREVENT EROSION.

**EROSION AND SEDIMENTATION CONTROL MAINTENANCE PROCEDURES**

ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A DAILY BASIS AND FOLLOWING ALL STORMS BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF THE REQUEST AND THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK.

THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, AND PIPES AT THE COMPLETION OF CONSTRUCTION, AND AS REQUESTED BY THE ENGINEER TO KEEP THE SYSTEM FUNCTIONING PROPERLY DURING CONSTRUCTION.

FOLLOWING COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.

ALL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE ESTABLISHED PRIOR TO AND BE MAINTAINED THROUGH ALL CONSTRUCTION PHASES.

**WETLAND IMPACTS & DISTURBANCE**

EQUIPMENT OPERATING IN WETLANDS: OPERATION OF EQUIPMENT IN WETLAND AREAS IS GENERALLY NOT ALLOWED AND MUST BE APPROVED IN ADVANCE. ANY EQUIPMENT OPERATING IN WETLAND AREAS SHALL BE LOW GROUND PRESSURE (LESS THAN 3 PSI) OR SHALL BE SET ON TEMPORARY FILL OR MATTING. TEMPORARY FILL, TIMBER MATTING OR OTHER MATTING MUST BE APPROVED IN ADVANCE AND WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE GENERAL COST OF OTHER RELATED WORK ITEMS.

TEMPORARY FILL: PLACEMENT OF TEMPORARY FILL (SOIL, RIP RAP, ETC.) IN WETLAND AREAS THAT IS NOT SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS IS GENERALLY NOT ALLOWED AND MUST BE APPROVED IN ADVANCE. ANY TEMPORARY FILL APPROVED FOR PLACEMENT, SHALL BE PLACED ON GEOTEXTILE LAID ON THE PRE-CONSTRUCTION WETLAND GRADE. UNCONFINED TEMPORARY FILL THAT IS PLACED IN FLOWING WATER SHALL BE ONLY CLEAN WASHED STONE.

WETLAND DISTURBANCE: ONLY THOSE WETLAND AREAS SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS OR INCLUDED IN APPROVED PERMITS TO BE DISTURBED, OR ADDITIONAL AREAS SPECIFICALLY APPROVED AS ABSOLUTELY NECESSARY TO COMPLETE THE PROPOSED WORK, SHALL BE DISTURBED.

WETLAND & WETLAND FRINGE AREA RESTORATION: ALL DISTURBED WETLAND AND WETLAND FRINGE AREAS SHALL BE RESTORED WITH A WETLAND SEED MIX OR WETLAND TRANSITIONAL SEED MIX CONTAINING ONLY SPECIES NATIVE TO CONNECTICUT. ALL SEED MIX FOR WETLAND OR WETLAND FRINGE (TRANSITIONAL) AREAS MUST BE SUBMITTED AND APPROVED IN ADVANCE. THIS WORK SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE GENERAL COST OF OTHER RELATED WORK ITEMS.

**SEDIMENTATION CONTROL DETAILS**

N.T.S.

		SUPV.	K.O.E.
		DESIGN	R.I.
		DRAWN	D.T.J.
		CHECKED	M.E.F.
NO.	DATE	DESCRIPTION	
<b>REVISIONS</b>			
		DATE	04/02/2026

**WMC**  
CONSULTING ENGINEERS

• WENGELL, McDONNELL & COSTELLO •  
87 HOLMES ROAD  
NEWINGTON, CT 06111  
(860) 667-9624

**PREPARED FOR**

TOWN OF NORTH STONINGTON/LEDYARD  
40 MAIN STREET/ 741 COLONEL HIGHWAY  
NORTH STONINGTON, CT 06359 / LEDYARD, CT 06339

IMPROV. TO WHITFORD BROOK WATERSHED  
BUSH POND  
EROSION CONTROL DETAILS

D	LANTERN HILL	S.F.D.	23016		SHEET	12
SIZE	PROJECT	FILE NAME	NUMBER	REV.	OF	12