ſ		
	ABBREVIATION	S
Bit.	BITUMINOUS	
B.O.F.	BOTTOM OF FOOTING	
Conc.	CONCRETE	
CF	CUBIC FEET	
CFS	CUBIC FEET PER SECOND	
CMP		
CMFE		
DIA.	DIAMETER	
EL.	ELEVATION	
НМА	HOT MIX ASPHALT	
I.D.	INSIDE DIAMETER	
INV.	INVERT	
L.F.		
MIN.		
OHW	ORDINARY HIGH WATER	
PVC	POLYVINYLCHLORIDE	
R	RADIUS	
RCP	REINFORCED CONCRETE PIPE	
S.F.	SQUARE FEET	
STA.	STATION	
I.O.W.	TYPICAL	
WSEL	WATER SURFACE ELEVATION	
WF	WETLAND FLAG	
	LEGEND	
Fristing		PROPOSED
98		<u></u>
× 99.0	SPOT ELEVATION	<u>99.00</u>]+
*	CONIFEROUS TREE	SEE EROSION AND SEDIMENT CONTROL
()		AND PLANTING PLAN
$\left\{\begin{array}{c} \circ \end{array}\right\}$	DECIDUOUS TREE	
	WETLAND FLAG	
·		
§	STREET LINE	
<u>A</u>	SURVEY CONTROL	
	PERMANENT EASEMENT	
	TEMPORARY EASEMENT	
	- EDGE OF GRAVEL	
	BITUMINOUS CONCRETE	
	CURB	
	SIGN	.
CTV		Y Y Y Y Y
E		
т/с	TELEPHONE LINE	
	CATCH BASIN	
	FLARED END SECTION	
======	STORM DRAINAGE PIPE	\sim
	PROTECT TREE	\bigcirc
	REMOVE TREE	\bigotimes
	CL FARING	
	SAWCUT	
	REMOVE PAVEMENT, CURB	
	AND ROADWAY BASE MATERIAL	
	EROSION CONTROL	
CONT	RAUIURA	
OC	TOBER 1	2024
	,	



TOWN OF OLD SAYBROOK, CONNECTICUT

REPLACEMENT OF BRIDGE NO. 105003 **BEAVER DAM TRAIL OVER FISHING BROOK**

BOARD OF SELECTMEN

CARL P. FORTUNA, JR. FIRST SELECTMAN SCOTT GIEGERICH MATTHEW PUGLIESE

	SCHEDULE OF DRAWINGS
SHEET No.	TITLE
1 OF 16	COVER SHEET
2 OF 16	TOPOGRAPHIC SURVEY
3 OF 16	DEMOLITION PLAN
4 OF 16	ROADWAY PLAN
5 OF 16	ROADWAY PROFILE
6 OF 16	EROSION AND SEDIMENT CONTROL AND PLANTING PLAN
7 OF 16	EROSION AND SEDIMENT CONTROL NOTES
8 OF 16	EROSION AND SEDIMENT CONTROL DETAILS
9 OF 16	MAINTENANCE AND PROTECTION OF TRAFFIC PLAN
10 OF 16	STAGING PLAN
11 OF 16	GENERAL PLAN
12 OF 16	RIGID FRAME AND FOOTING DETAILS
13 OF 16	WINGWALL DETAILS
14 OF 16	PARAPET DETAILS
15 OF 16	SITE DETAILS AND NOTES
16 OF 16	FIGURES FOR DATES ON BRIDGE PARAPETS
(CTDOT STANDARD DRAWINGS
SHEET No.	TITLE
HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB
HW-910_20	MASH W-BEAM HARDWARE
HW-910_21	MASH BEAM RAIL (R-B MASH) GUIDERAIL
HW-910_23	METAL BEAM RAIL (R-B MASH) HALF AND QUARTER POST SPACING GUIDERAIL
HW-911_01	R-B END ANCHORAGE TYPE I AND II
TR-1208_02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS
TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS
TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES











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6	I
	NOTES: 1. SEE SHEET 15 FOR PROJECT NOTES. 2. SEE SHEET 10 FOR PUMP DISCHARGE LOCATION.
PK-101 N 671,926.30 E 1,091,423.76 D WF 1	
14" Oak	
14" Oak Type "C-L" Catch Basin 0ak 16" Oak E E Inv. 30.3 (E) Inv. 30.2 (N) Inv. 30.1 (W)	
Train to Decod End	
Type "C" Catch Basin T.F. 34.5 Invv 30.8	GRAPHIC SCALE 10 8 6 4 2 0 10 20 SCALE: 1"=10'
Comparet Dedaetal	TOWN OF OLD SAYBROOK, CONNECTICUT
Contrast Pedestal 24" Maple Boulder 3 th Contraction of the second	REPLACEMENT OF BRIDGE NO. 105003 BEAVER DAM TRAIL
16" Hickory	OVER FISHING BROOK
HAYBALE OR SEDIMENTATION FENCE EROSION CONTROL	EROSION AND SEDIMENT CONTROL AND PLANTING PLAN
61C	CONTRACT DRAWINGS
	ANY ALTERATIONS TO THIS DRAWING MADE WITHOUT THE EXPRESSED WRITTEN APPROVAL OF NATHAN L. JACOBSON & ASSOCIATES, INC. WILL BE AT THE SOLE RISK OF THE PERSON OR FIRM MAKING SUCH UNAUTHORIZED ALTERATIONS AND NATHAN L. JACOBSON & ASSOCIATES, INC. WILL NEITHER HAVE NOR ACCEPT ANY LIABILITY OR LEGAL EXPOSURE ARISING FROM SAID UNAUTHORIZED ALTERATIONS.
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	REVISIONS No. DESCRIPTION DATE 1 ADDED PLANTINGS 10-06-2022
PLANTING LEGEND	
SYMBOL BOTANICAL NAME COMMON NAME SIZE (HT.) EA. AMELANCHIER CANADENSIS SHADBLOW SERVICEBERRY 3' - 4' 5 CORNUS RACEMOSA GREY DOGWOOD 3' - 4' 7 CORNUS SERICEA RED-OSIER DOGWOOD 3' - 4' 3 SLOPES IL EX VERTICIULATA MULTERDEDDX CI. 4' 5	DATE: OCTOBER 1, 2024 SCALE: 1"=10' PROJECT No.: 07470045 CADD FILE: 07470045SP 6 OF 16
VERY STONY VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY 3' - 4' 7	DESIGNED: JHP DRAWN: AJG CHECKED: JMD

_	1			2		
	PROJECT NARRATIVE:		INSTALLA	ATION REQUIREMENTS		
	THE SUBJECT PROJECT INCLUDES THE COMPLETE REPLACEMENT OF AN ACCMPA CULVERT CA FISHING BROOK, WITH A PRECAST CONCRETE RIGID FRAME.	RRYING BEAVER DAM TRAIL OVER	SITE PRE	EPARATION		
	ADDRESS OF PROPOSED USE:		1. GRADE AS N APPLICATIO	NEEDED AND FEASIBLE TO PERMIT IN AND MULCH ANCHORING. ALL GF	THE USE OF EQUIPMENT F	OR SEEDBED PREPARATION, SEEDIN
	BEAVER DAM TRAIL OVER FISHING BROOK OLD SAYBROOK, CONNECTICUT 06475		2. INSTALL NE	ING.	RES SUCH AS DIVERSIONS	, GRADE STABILIZATION STRUCTURES
) GRASSED WATERWAYS.		
	OLD SAVBROOK TOWN HALL 302 MAIN STREET		1. APPLY LIME	STONE AND FERTILIZER ACCORDIN	NG TO SOIL TEST RECOMM	IENDATIONS SUCH AS THOSE OFFERI
	OLD SAYBROOK, CT 06475 PHONE: 860-395-3123		UNIVERSITY COOPERATI TIMING IS C	' OF CONNECTICUT SOIL TESTING L IVE EXTENSION SERVICE OFFICE. I RITICAL, FERTILIZER MAY BE APPLI	LABORATORY. SOIL SAMPI IF SOIL TESTING IS NOT FE IED AT THE RATE OF 300 P	LE MAILERS ARE AVAILABLE FROM TH ASIBLE ON SMALL OR VARIABLE SITE OUNDS PER ACRE OR 7.5 POUNDS PE
E	CONSTRUCTION SCHEDULING:		FEET OF 10- FOLLOWS:	-10-10 OR EQUIVALENT. APPLY LIMI	IESTONE (EQUIVALENT TO	50 PERCENT CALCIUM PLUS MAGNES
	IT IS PROPOSED TO COMPLETE CONSTRUCTION IN ONE CONSTRUCTION SEASON. IN GENERAL, CONSTRUCTION AND SITE STABILIZATION MAY BE AS FOLLOWS:	THE SEQUENCE FOR THE	SOIL 1		TONS/ACRE	LBS/1,000 SQUARE FEET
	1. INSTALL EROSION CONTROLS TO THE MAXIMUM EXTENT POSSIBLE AND OBTAIN APPROVA	L OF THE INSTALLATION FROM THE	SAND'	Y LOAM, LOAM, SILT LOAM	2	90
	2. INSTALL STAGE 1 MAINTENANCE AND PROTECTION OF TRAFFIC MEASURES AND MAINTAIN	I ROAD OPEN.	LOAM	Y SAND, SAND	1	45
	3. PERFORM STAGE 1 CONSTRUCTION, INCLUDING COFFERDAMS, FOOTINGS, FRAME, WING	VALL AND PARAPETS.	SEEDING	3 TO COUNTY SOIL SURVEY REPOR	AT FOR SOIL TEXTURES AT	THE SITE.
	 REMOVE FOR THIS OF EASTING BARKEL WITHIN STAGE FOONS RUCTION AREA. INSTALL STAGE 2 MAINTENANCE AND PROTECTION OF TRAFFIC MEASURES AND CONTINU 	E TO MAINTAIN ROAD OPEN.	1. ANNUAL RY	E GRASS 40 LBS/ACRE, 1 LB/1000 S	۶F	
	6. PERFORM STAGE 2 CONSTRUCTION, INCLUDING COFFERDAMS, FOOTINGS, FRAME, WING	VALL AND PARAPETS.	2. WHERE THE APPLYING F	E SOIL HAS BEEN COMPACTED BY C ERTILIZER LIME AND SEED.	CONSTRUCTION OPERATIO	NS, LOOSEN SOIL TO A DEPTH OF 2 II
	 REMOVE REMAINING EXISTING BARREL. INSTALL METAL BEAM RAIL SYSTEM ON WEST SIDE OF ROAD. 		3. APPLY SEEI HYDROSEEI PERCENT W	D UNIFORMLY BY HAND, CYCLONE S DINGS WHICH INCLUDE MULCH, MA	SEEDER, DRILL, CULTIPAC AY BE LEFT ON SOIL SURFA	KER TYPE SEEDER OR HYDROSEEDE CE. SEEDING RATES MUST BE INCRE
	9. REMOVE STAGE 2 MAINTENANCE AND PROTECTION OF TRAFFIC MEASURES.		4. SPRING SEE	EDINGS USUALLY GIVE THE BEST R	RESULTS, SPRING SEEDING	
	 INSTALL METAL BEAM RAIL SYSTEM ON EAST SIDE OF ROAD. PAVE ROADWAY ONE LANE AT A TIME WITH ALTERNATING TRAFFIC SHARING ONE LANE. 		SUMMER AT ARE:	LEAST 35 PERCENT OF THE SEED	SHOULD BE HARD SEED (I	JNSCARIFIED), THE RECOMMENDED
	 FINE GRADE, TOPSOIL, FERTILIZE, LIME, SEED, AND MULCH DISTURBED AREAS NOT SHOW NOT ALREADY ADDRESSED IN EACH STAGE. 	N TO BE COVERED OTHERWISE AND	MARC AUGU	H 15 THROUGH JUNE 15 JST 15 THROUGH OCTOBER 15		
	13. REMOVE REMAINING MAINTENANCE AND PROTECTION OF TRAFFIC MEASURES.		PERMANE	NT SEEDING		
	14. REMOVE EROSION AND SEDIMENTATION CONTROLS ONCE VEGETATION HAS BEEN ESTAB	LISHED.	INSTALLA	ATION REQUIREMENTS		
	EROSION CONTROL MEASURES ON THIS SITE. PRIOR TO THE START OF CONSTRUCTION, THE C INLAND WETLANDS ENFORCEMENT OFFICER, TOWN ENGINEERS AND ZONING ENFORCEMENT OF INLAND WETLANDS ENFORCEMENT OFFICER, TOWN ENGINEERS AND ZONING ENFORCEMENT OF	DNTRACTOR WILL PROVIDE THE FFICERS WITH THE NAME, ADDRESS	1. GRADE AS N SEEDING, M WITH THE R	VEEDED AND FEASIBLE TO PERMIT IULCH APPLICATION AND ANCHORII REQUIREMENTS FOR LAND GRADIN	THE USE OF CONVENTION ING, AND MAINTENANCE. A IG.	AL EQUIPMENT FOR SEEDBED PREPA ILL GRADING SHOULD BE BE DONE IN
	AND TELEPHONE NUMBER OF THE RESPONSIBLE PERSON. SHOULD ANY PROBLEMS OCCUR, IF BE CONTENT OF THE RESPONSIBLE PERSON. SHOULD ANY PROBLEMS OCCUR, IF	IEN THE OWNER'S AGENT SHOULD	SEEDBEI	D PREPARATION		
	CONTINGENCY PLAN		1. APPLY LIME CONNECTIO	STONE AND FERTILIZER ACCORDIN	NG TO SOIL TESTS SUCH A OIL SAMPLE MAILERS ARE	S THOSE OFFERED BY THE UNIVERSI AVAILABLE FROM THE LOCAL COOPE
D	AND THE TOWN ENGINEER WITH THE NAMES AND TELEPHONE NUMBERS OF THE RESPONSIBLE THE EVENT OF AN EROSION AND/OR SEDIMENT CONTROL PROBLEM.	PERSONS TO BE CONTACTED IN	CRITICAL, F USING 10-10	ERTILIZER MAY BE APPLIED AT THE J-10 OR EQUIVALENT. IN ADDITION,	E RATE OF 300 POUNDS PE	R ACRE OR 7.5 POUNDS PER 1,000 SC R ACRE OR 7.5 POUNDS PER 1,000 SC R ACRE OR EQUIVALENT OF SLOW R
	THE CONTRACTOR SHALL AT ALL TIMES KEEP SUFFICIENT ADDITIONAL SEDIMENTATION CONTR THE PROJECT SITE TO CONTROL UNFORESEEN EROSION AND/OR SEDIMENT PROBLEMS. IN TH	OL FENCE AND/OR HAY BALES ON E EVENT OF A PROBLEM THE	MAGNESIUN	A OXIDE) AS FOLLOWS:	APPLY GROUND LIMESTON	IE (EQUIVALENT TO 50 PERCENT CAL
	CONTRACTOR SHALL PROMPTLY STABILIZE THE PROBLEM AND CONTAIN ANY SEDIMENT AND THE ROSION AND SEDIMENT CONTROL	INDTIFY THE OWNER'S AGENT.	<u>SOIL 1</u> CLAY,	<u>EATURE</u> , CLAY LOAM, AND HIGH ORGANIC S	I ONS/ACRE SOIL 3	LDS/1,000 SQUARE FEET 135
	THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDI	MENT CONTROL PLAN FOR THE	SAND'	Y LOAM, LOAM, SILT LOAM	2	90
	THE MINIMUM STANDARDS FOR ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE T	HOSE OUTLINED IN THE "2002	LOAM	Y SAND, SAND R TO COUNTY SOIL SURVEY REPOF	1 RT FOR SOIL TEXTURES AT	45 THE SITE.
	MEANS AND TECHNIQUES HAY BE ALLOWED WITH THE PRIOR APPROVAL OF THE OWNER'S AGE	ILTERNATIVE MEASURES, METHODS, NT.	2. WORK LIME HARROW OF	AND FERTILIZER INTO THE SOIL AS	S NEARLY AS PRACTICAL T	O A DEPTH OF 4 INCHES WITH A DISC
			CONTOUR. AND COARS	CONTINUE TILLAGE UNTIL A REASO SE SANDS SHOULD BE ROLLED TO F	ONABLY UNIFORM, FINE SE FIRM THE SEEDBED WHER	EDBED IS PREPARED. ALL BUT CLAY EVER FEASIBLE.
	 NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE WITHIN AREAS DESIGNATED AS INLAND FLOODPLAINS, DESIGNATED UPLAND REVUEW ZONES OR WITHIN STREAM CHANNEL ENCR REQUIRED APPROVALS AND/OR PERMITS. 	OACHMENT LINES WITHOUT ALL	3. REMOVE FR OTHERWISE	COM THE SURFACE ALL STONES ON E SPECIFIED. REMOVE ALL OTHER OTHER LINSUITABLE MATERIAL	NE AND ONE-QUARTER INC DEBRIS SUCH AS WIRE, C/	HES OR LARGER IN ANY DIMENSION U ABLE, TREE ROOTS, PIECES OF CONC
	2. TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO THE ST	ART OF CONSTRUCTION.	4. INSPECT SE	EDBED JUST BEFORE SEEDING. IF	F TRAFFIC HAS LEFT THE S	OIL COMPACTED, THE AREA MUST BE
	 ALL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED CONTINUOUSLY AND SHA DISTURBED AREAS HAVE BEEN STABILIZED. 	ALL NOT BE REMOVED UNTIL ALL	SEEDING	DATES		
	 THE CONTRACTOR SHALL LIMIT THE DISTURBANCE OF LAND TO THOSE AREAS SHOWN OF REASONABLE CARE TO PROTECT AND PRESERVE EXISTING VEGETATION WITHIN THE LIMI FEASIBLE. 	I THE DRAWINGS AND SHALL TAKE TS OF DISTURBANCE WHERE	1. SPRING SEE RECOMMEN	EDINGS USUALLY GIVE THE BEST R NDED, HOWEVER LATE SUMMER SE	RESULTS. SPRING SEEDING EEDINGS PRIOR TO SEPTE	3S OF ALL SEED MIXES WITH LEGUME MBER 15 CAN BE MADE. WHEN CROW
	 WHERE PRACTICABLE, THE CONTRACTOR SHALL PLAN HIS CONSTRUCTION OPERATIONS EXPOSED SOIL TO AREAS ACTIVELY UNDER CONSTRUCTION. THE CONTRACTOR SHALL T. 	SO AS TO LIMIT THE AREAS OF AKE REASONABLE CARE TO LIMIT	SEEDED IN SEEDING DA	LATE SUMMER AT LEAST 35 PERCE ATES ARE:	INT OF THE SEED SHOULD	BE HARD SEED (UNSCARIFIED). THE
	THE PERIOD OF EXPOSURE OF DISTURBED AREAS. THE INSTALLATION OF PERMANENT VE ACCOMPLISHED AS SOON AS IS PRACTICABLE.	GETATIVE MEASURES SHALL BE	MARC	H 15 THROUGH JUNE 15 EMBER 1 THROUGH OCTOBER 15		
	 ADEQUATE PROVISIONS SHALL BE TAKEN TO PROTECT ALL EXPOSED CUT AND FILL SLOP DAMAGE. 	ES FROM SURFACE WATER FLOW	2. WITH THE E NEW LONDO	XCEPTION OF CROWN VETCH, THE DN, MIDDLESEX, NEW HAVEN AND F	EFINAL SEEDING DATE MAY FAIRFIELD COUNTIES.	/ BE EXTENDED 15 DAYS IN THE COA
	 ALL MATERIAL FROM CLEARING AND GRUBBING OPERATIONS SHALL BE DISPOSED OF IN A WATER FROM DEWATERING OPERATIONS SHALL NOT BE DISCHARGED DIRECTLY TO ANY 	A LAWFUL MANNER.				
с	SUCH WATER SHALL BE DISCHARGED TO AN APPROVED SEDIMENT BASIN AND/OR FILTER SYSTEM ONLY WHEN APPROVED. NO WATER FROM DEWATERING OPERATIONS SHALL BE SEWER SYSTEM	DEVICE OR TO A STORM DRAINAGE DISCHARGED INTO A SANITARY	SUBSTITUTI	ION.		
	 THE STORAGE, WASHING, FUELING AND MAINTENANCE OF EQUIPMENT AND VEHICLES SH AREAS ONLY. IN THE EVENT OF A CONTAMINANT SPILL THE CONTRACTOR SHALL IMMEDIA 	ALL TAKE PLACE IN DESIGNATED	2. APPLY SEE SEEDING DE	EPTH IS FROM 1/4 TO 1/2 INCH. HYD	SEEDER, DRILL, CULTIPAC JROSEEDINGS WHICH ARE	MULCHED MAY BE LEFT ON SOIL SUF
	ENERGY AND ENVIRONMENTAL PROTECTION OIL AND CHEMICAL SPILL RESPONSE DIVISIO AGENT.	N (860-424-3338) AND THE OWNER'S	3. WHERE FEA SHOULD BE ON THE COI	SIBLE, EXCEPT WHERE EITHER A C FIRMED FOLLOWING SEEDING OPE NTOUR.	ERATIONS WITH A ROLLER	, OR LIGHT DRAG. SEEDING OPERATI
	PRESERVE AND CONSERVE SOIL		4. FROST CRA NIGHTS AND	CK SEEDING MUST BE DONE IN LAT D THAWING DAYS WITH LITTLE OR N	TE WINTER OR EARLY SPR NO SNOW COVER. SEEDIN	ING. SUITABLE WEATHER CONDITION IG RATES MUST BE INCREASED 10 PE
	TOPSOILING		5. HYDRAULIC	APPLICATION (HYDROSEEDING), IS	S A SUITABLE METHOD FOI	RUSE ON CRITICAL AREAS. WHEN HY
	MATERIALS SITE INVESTIGATIONS SHALL BE MADE TO DETERMINE IF THERE IS A SUFFICIENT QUANTIT	Y OF TOPSOIL OF GOOD QUALITY	REMOVE SU HORIZONTA	JREACE STONES LARGER THAN ON ALLY TO ONE FOOT VERTICALLY). L	JE INCH IN DIAMETER. SLC	PES MUST BE NO STEEPER THAN 2 T BE APPLIED SIMULTANEOUSLY WITH
	ON THE SITE TO JUSTIFY STRIPPING. HIGH QUALITY TOPSOIL SHALL BE FRIABLE AND LOA SANDY CLAY LOAM, CLAY LOAM). OTHER SOIL TYPES WITH HIGH ORGANIC CONTENT MAY TESTING. IT SHALL BE FREE OF DEBRIS, TRASH, STUMPS, ROCKS, ROOTS AND NOXIOUS \	MY (LOAM, SANDY LOAM, SILT LOAM, BE FOUND SUITABLE AFTER VEEDS. IT SHALL GIVE EVIDENCE OF	MULCH DOE AND HOLDIN	S MOLCH ON CRITICAL AREAS IS N S NOT PROVIDE ADEQUATE SEEDE NG IT WITH ADHESIVE MATERIALS (BED PROTECTION. BETTER OR 500 POUNDS PER ACRE	ROTECTION IS GAINED BY USING S OF WOOD FIBER MULCH. SEEDING F
	BEING ABLE TO SUPPORT HEALTHY VEGETATION. IT SHALL CONTAIN NO SUBSTANCE THA GROWTH.	T IS POTENTIALLY TOXIC TO PLANT	INCREASED 6. APPLY MUL	BY 10 PERCENT WHEN HYDROSEE	EDING. RY MULCHING MEASURE.	
	ALL TOPSOIL SHALL BE TESTED BY A RECOGNIZED LABORATORY TO DETERMINE THE PRO AND FERTILIZER.	OPER APPLICATION RATES OF LIME	7. IF SEEDING SITE AND DI	CANNOT BE DONE WITHIN THE SEE ELAY SEEDING UNTIL THE NEXT RE	EDING DATES, USE THE TE ECOMMENDED SEEDING PE	MPORARY MULCHING MEASURE TO F
			MAINTEN	JANCE		
	 STRIPPING OF TOPSOIL SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. T DEPENDING ON THE SITE CONDITIONS. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRI OPERATIONS. 	HE DEPTH OF REMOVAL MAY VARY OR TO BEGINNING STRIPPING	1. LIME ACCOF POUNDS PE	RDING TO A SOIL TEST OR AT A MIN R 1,000 SQUARE FEET).	NIMUM OF EVERY FIVE YEA	RS USING A RATE OF TWO TONS PER
	 TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER THAT NATURAL SURFACE WATER FLO OFF-SITE SEDIMENT DAMAGE SHALL RESULT. 	OW IS NOT OBSTRUCTED AND NO	2. WHERE GR/ 10-10-10 OR	ASSES PREDOMINATE, FERTILIZE A EQUIVALENT PER ACRE (7.5 POUN	ACCORDING TO A SOIL TES NDS PER 1,000 SQUARE FEE	T OR BROADCAST BIENNIALLY, 300 PC ET).
	3. SIDE SLOPES OF STOCKPILES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTIC/	AL.	3. WHERE LEG OF 0-20-20 F	JUMES PREDOMINATE, FERTILIZE A PER ACRE OR EQUIVALENT (7.5 POL	ACCORDING TO A SOIL TES UNDS PER 1,000 SQUARE F	T OR BROADCAST EVERY THREE YEA EET).
	 A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES. TEMPORARY SEEDING OF STOCKPILES SHALL BE COMPLETED WITHIN 30 DAYS OF THE FC 	RMATION OF THE STOCKPILE, IN	NON-LIVI	NG SOIL PROTEC	TION	
	ACCORDANCE WITH THE TEMPORARY VEGETATIVE COVER REQUIREMENTS. 6. PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAI	NED ACCORDING TO THE	MULCH FO	R SEED		
	DRAWINGS. 7. WHERE THE pH OF THE SUBSOIL IS 6.0 OR LESS, GROUND AGRICULTURAL LIMESTONE SHO	ALL BE SPREAD IN ACCORDANCE		ILS	ONDITIONS AVAILABILITY	OF MATERIALS AND LAROR AND FOUN
В	WITH THE SOIL TEST TO A pH OF 6.0 TO 6.5 OR THE VEGETATIVE ESTABLISHMENT PRACTIC 8. AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE. AND IMMEDIATE	CE BEING USED. Y PRIOR TO SPREADING THE	MATERIALS		RMISSION OF THE APPROV	ING AUTHORITY.
	TOPSOIL, THE SUBGRADE SHALL BE LOOSENED BY DISCING OR SCARIFYING OR TRACKING INCHES TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.	G TO A DEPTH OF AT LEAST 4	ORGANIC	C MULCHES		
	 TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE S IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPI TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED TO A MINIMUM COMPACTED DEDTHILDER INC. 	UBGRADE IS EXCESSIVELY WET, OR DSED SODDING OR SEEDING. THE CHES, UNLESS OTHERWISE NOTED	1. ORGANIC M	ULCHES MAY BE USED IN ANY ARE	A WHERE MULCH IS REQU	IRED, SUBJECT TO THE RESTRICTION
	ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERA ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.	TIONS SHALL BE CORRECTED IN		MULCHES	RATES PER ACRE	PER 1,000 SQUARE FEET
	10. TOPSOIL SHALL BE COMPACTED ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERL UNIFORM FIRM SEEDBED FOR THE ESTABLISHMENT OF A DURABLE TURF. UNDUE COMPA INCREASES RUNDEE VELOCITY AND YOU HAVE AND REVENTS SEED OF RUNTING	YING SOIL AND TO OBTAIN A CTION IS TO BE AVOIDED AS IT		STRAW OR HAY	1 1/2 - 2 TONS	35-45 LBS
	11. IMMEDIATELY FOLLOWING TOPSOIL APPLICATION, PROTECT THE TOPSOIL FROM EROSION	BY EITHER SODDING, SEEDING	APPLICA			
			HAND, DIVIE (3/4 TO 1 BA	DE THE AREA TO BE MULCHED INTO LE) OF STRAW OR HAY IN EACH SE	2 APPROXIMATELY 1,000 SC ECTION TO ENSURE UNIFO	QUARE FOOT SECTIONS AND PLACE 3 RM DISTRIBUTION.
	1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING C	LEARING AND CONSTRUCTION IN	ANCHOR	ING		
	2. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMO	VE TREES, VEGETATION, ROOTS OR	1. HAY OR STF STRAW MUL	XAW MULCHES MUST BE ANCHOREI LCH MAY BE ANCHORED BY TRACKI	D IMMEDIATELY AFTER AP	PLICATION TO PREVENT WINDBLOWIN EQUIPMENT, BUT NOT BY USING NET
	 ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLE RELATED DROBLEMS 	MENT, SUBSIDENCE OR OTHER				
	 FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DE UNIT REPORT OF MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DE 	BRIS AND OTHER OBJECTIONABLE	WHERE ERC FOR DISLOC	25 MOST BE INSPECTED FERIODIC/ DSION IS OBSERVED, ADDITIONAL N CATION OR FAILURE. IF WASHOUTS	MULCH SHOULD BE APPLIE S OR BREAKAGE OCCUR, F	D. NETS SHALL BE INSPECTED AFTER REINSTALL NET AS NECESSARY AFTER
	5. FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT F	BE INCORPORATED INTO FILLS.	DAMAGE TO BE CONSIDE EROSION AI	ERED ESTABLISHED UNTIL A GROUI ND TO SURVIVE SEVERE WEATHER	ND COVER IS ACHIEVED W CONDITIONS. WHERE MU	HICH IS MATURE ENOUGH TO CONTR LCH IS USED IN CONJUNCTION WITH
	6. FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION.		PLANTINGS SOIL SURFA	ACE, REPAIR AS NEEDED.		WINE IF MULCH IS MAINTAINING COV
	 I OPSOILING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS FOR 1 ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINIS 	OPSOILING. SHED GRADING.			JL BLANKET	
	DUST CONTROL			CTURED BLANKET COMPOSED OF B	BIODEGRADABLE/PHOTODE	GRADABLE NATURAL OR POLYMER F
A	INSTALLATION REQUIREMENTS		FILAMENTS MATRIX.	INAL HAVE BEEN MECHANICALLY,	STRUCTURALLY OR CHEN	IGALLY BOUND FOGETHER TO FORM
	1. THE EXPOSED SOIL SURFACE SHALL BE MOISTENED PERIODICALLY WITH ADEQUATE QUA	NTITIES OF WATER TO CONTROL	PURPOSI			
	DUST.			TO REDUCE SHEET AND RILL ERC	DSION AND TO ENHANCE T	HE ESTABLISHMENT OF VEGETATION
	COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. IN AREAS ADJACENT TO V STARLE A CODECATE	VATERWAYS USE CHEMICALLY	1. ON DISTURE	BED SOILS WHERE SLOPES ARE 2:1	1 OR FLATTER.	
	MAINTENANCE		2. WHERE WIN	JD AND TRAFFIC GENERATED AIR F	-LOW MAY DISLODGE STAN	IDARD, UNARMORED MULCHES.
	1. WHEN TEMPORARY DUST CONTROL MEASURES ARE USED, REPETITIVE TREATMENT SHAL ACCOMPLISH CONTROL.	L BE APPLIED AS NEEDED TO	 MAY BE USE MAY BE USE 	LD AS A SUBSTITUTE FOR TEMPORA	ARY SOIL PROTECTION.	
	VEGETATIVE SOIL COVER		PLANNIN	G CONSIDERATION		
	TEMPORARY SEEDING		1. THE SUCCE MANUFACTI	SS OF TEMPORARY EROSION CON URER'S INSTALLATION RECOMMEN	ITROL BLANKETS IS DEPEN IDATIONS.	DENT UPON STRICT ADHERENCE TO

	3 4	5	6	
		4. CATCH BASINS IN DRAINAGEWAYS ON SLOPES AND AT CULVERT INLETS: WHERE CATCH BASINS IN DRAINAGEWAYS ARE	VEGETATED 0-4 PICID 5-10	NOTES:
	MATERIALS 1. TEMPORARY EROSION CONTROL BLANKETS SHALL BE COMPOSED OF FIBERS AND/OR FILAMENTS THAT:	LOCATED ON SLOPES OR AT COLVERT INLETS, LOCATE THE CHECK DAM ACROSS THE DRAINAGEWAY NO FARTHER THAN 20 FEET ABOVE THE CATCH BASIN OR CULVERT. FOR CULVERT INLETS, LOCATE THE CHECK DAM AT LEAST 6 FEET FROM THE INLET.	INSTALLATION REQUIREMENTS	1. SEE SHEET 15 FOR PROJECT NOTES.
TION, SEEDING, MULCH THE REQUIREMENTS FOR	 ARE BIODEGRADABLE OR PHOTODEGRADABLE WITHIN TWO YEARS BUT WITHOUT SUBSTANTIAL DEGRADATION OVER THE PERIOD OF INTENDED USAGE (FIVE MONTHS MAXIMUM); 	5 CATCH BASINS IN DEPRESSIONS OR LOW SPOTS (YARD DRAINS): ENCIRCLE THE ENTIRE CATCH BASIN WITH A STONE CHECK DAM NOT TO EXCEED 18 INCHES IN HEIGHT AND 3 FEET OUT FROM THE OUTSIDE EDGE OF THE TOP OF THE FRAME.	1. CONSTRUCT THE LEVEL SPREADER ON UNDISTURBED SOIL (NOT FILL MATERIAL).	
STRUCTURES, SEDIMENT	B. ARE MECHANICALLY, STRUCTURALLY OR CHEMICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX OF EVEN THICKNESS AND DISTRIBUTION THAT RESIST RAINDROP SPLASH AND WHEN USED WITH SEEDINGS ALLOW VEGETATION	6. CULVERT INLETS: LOCATE THE STONE CHECK DAM APPROXIMATELY 6 FEET FROM THE CULVERT IN THE DIRECTION OF THE INCOMING FLOW.	2. SHAPE THE ENTRANSE TO THE SPREADER IN SUCH A MANNER AS TO ENSURE THAT RUNOFF ENTERS DIRECTLY ONTO THE 0.0% CHANNEL.	
	TO PENETRATE THE BLANKET; C. ARE OF SUFFICIENT STRUCTURAL STRENGTH TO WITHSTAND STRETCHING OR MOVEMENT BY WIND OR WATER WHEN	MAINTENANCE	 CONSTRUCT A 20-FT. LONG TRANSITION SECTION FROM THE DIVERSION CHANNEL TO BLEAD SMOOTHLY TO THE WIDTH AND DEPTH OF THE SPREADER. 	
HOSE OFFERED BY THE BLE FROM THE LOCAL	INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS; D. ARE FREE OF ANY SUBSTANCE TOXIC TO PLANT GROWTH AND UNPROTECTED HUMAN SKIN OR WHICH INTERFERES	1. IOR PERMANENT STONE CHECK DAMS, INSPECT AND MAINTAIN THE STONE CHECK DAM IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS PROVIDED IN THE DESIGN.	 CONSTRUCT THE LEVEL LIP AT 0.0% GRADE TO ENSURE UNIFORM SPREADING OF STORM WATER RUNOFF FLOW. THE PROTECTIVE COVERING FOR A VEGETATED UP SHALL BE A MINIMUM OF 4 FEET WIDE EXTENDING 6 INCHES OVER THE 	
ARIABLE SITES, OR WHERE 5 POUNDS PER 1,000 SQUARE LUS MAGNESIUM OXIDE) AS	E. CONTAIN NO CONTAMINANTS THAT POLLUTE THE AIR OR WATERS OF THE STATE WHEN PROPERLY APPLIED;	 FOR TEMPORARY STORE CHECK DAMS, INSPECT STORE CHECK DAMS AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER TO DETERMINE MAINTENANCE NEEDS. DEMONE THE SEDIMENT DEPOSITE MUCH DEPOSITE REACH ADDROXIMATELY HAVE THE HEICHT OF THE CHECK DAM 	LIP AND BURIED 6 INCHES DEEP IN A VERTICAL TRENCH ON THE LOWER EDGE. BUTT THE UPPER SMOOTHLY CUT SOD, AND SECURELY HOLD IN PLACE WITH CLOSELY SPACED HENYY DUTY VIRE STAPLES.	
ET	F. PROVIDE EITHER 80% - 95% SOIL COVERAGE WHEN USED AS A SUBSTITUTE FOR MULCH FOR SEED OR 100% INITIAL SOIL COVERAGE WHEN USED AS A SUBSTITUTE FOR TEMPORARY SOIL PROTECTION MEASURE, AND;	 REMOVE THE SEDIMENT DEPOSITS WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE CHECK DAM. REPLICE OR REPAIR THE CHECK DAM WITHIN 24 HOURS OF OBSERVED FAILURE. FAILURE OF THE CHECK DAM HAS 	6. ENTRENCH THE RIGID LEVEL LIP AT LEAST 2 INCHES BELOW ENSITING GROUND AND SECORELY ANCHOR TO PREVENT DISPLACEMENT. PLACE AN APRON OF DOT 2" CRUSHED STONE OR MODIFIED RIPRAP AT THE TOP OF THE LEVEL LIP AND EXTENDED DOWN SLOPE AT LEAST 3 FEET. PLACE THE GEOTEXTILE NUMBER STONE AND USE GALVANIZED WIRE MESH TO USE 0 STONE SECURE LAND.	
	G. DO NOT CONTAIN NETTING.	A. STONE HAS MOVED,	HOLD STONE SECURELY IN PLACE. 7. STABILIZE THE DISTURBED AREA AROUND THE SPREADER IMMEDIATELY AFTER TS CONSTRUCTION (SEE PERMANENT SEED,	
	 MATERIALS SHALL BE SELECTED AS APPROPRIATE FOR THE SPECIFIC STIE CONDITIONS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. USE OF ANY PARTICULAR TEMPORARY EROSION CONTROL BLANKET SHOULD BE SUPPORTED BY MANUFACTURER'S TEST DATA THAT CONFIRMS THE BLANKET MEETS THESE MATERIAL SPECIFICATIONS AND NUMBER AND ADDRESS ADDRESS ADDRESS ADDRESS AND ADDRESS ADDRESS ADDRESS ADDRESS A	B. SOL HAS ERODED AROUND OR UNDER THE CHECK DAM REDUCING ITS FUNCTIONAL CAPACITY, OR TRAPPED SELIMENTS ARE OVERTOPPING THE CHECK DAM.	MULCH FOR SEED AND/OR STONE SCOPE PROTECTION MEASURES).	
	SITE PREPARATION AND INSTALLATION	 WHEN REFETITIVE FAILURES OCCUR AT THE SAME LOCATION, REVIEW CONDITIONS AND LIMITATIONS FOR USE AND DETERMINI IF ADDITIONAL CONTROLS (E.G. TEMPORARY STABILIZATION OF CONTRIBUTING AREA, DIVERSIONS, STONE OUTCOME DATE AND ADDRESS TO DEDUCE FAILURE DATE. 	1. FOR TEMPORARY INSTALLATIONS, INSPECT THE LEVEL SPREADER AT LEAST ONCE A WEEK AND MITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER TO DETERMINE MAINTENANCE NEEDS.	
	 PREPARE THE SURFACE, REMOVE PROTRUDING OBJECTS AND INSTALL TEMPORARY EROSION CONTROL BLANKETS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ENSURE THAT THE ORIENTATION AND ANCHORING OF THE 	 MAINTAIN THE STONE CHECK DAM UNTIL THE CONTRIBUTING AREA IS STABILIZED. 	2. FOR PERMAMENT INSTALLATIONS, INSPECT AFTER MAJOR RAINSTORMS OR ONCE A YEAR.	
DEPTH OF 2 INCHES BEFORE	BLANKET IS APPROPRIATE FOR THE SITE. 2. THE BLANKET CAN BE LAID OVER AREAS WHERE SPRIGGED GRASS SEEDLINGS HAVE BEEN INSERTED INTO THE SOIL.	7. AFTER THE CONTRIBUTING AREA IS STABILIZED, REMOVE ACCUMULATED SEDIMENT. STONE CHECK DAMSMAY BE REMOVED OR GRADED INTO THE FLOW LINE OF THE CHANNEL OVER THE AREA LEFT DISTURBED BY SEDIMENT REMOVAL. GRADE SO	 MAINTAIN THE LEVEL SPREADER LIP AT 0.0% SLOPE TO ALLOW FOR PROPER FUNCTIONING OF THE MEASURE. AVOID THE PLACEMENT OF ANY MATERIAL ON AND PREVENT CONSTRUCTION TRAFFIC ACROSS THE STRUCTURE. IF THE 	
IYDROSEEDER.	 WHERE LANDSCAPE PLANTINGS ARE PLANNED, LAY THE BLANKET FIRST AND THEN PLANT THROUGH THE BLANKET IN ACCORDANCE WITH LANDSCAPE PLANTING MEASURE. 	BE MOWED, REMOVE ALL THE STONE OR CAREFULLY GRADE OUT THE STONE TO ENSURE IT DOES NOT INTERFERE WITH MOWING.	SEDIMENT IMPOUNDMENTS BARRIERS AND FILTERS	
	 INSPECT THE INSTALLATION TO INSURE THAT ALL LAP JOINTS ARE SECURE, ALL EDGES ARE PROPERLY ANCHORED AND ALL STAKING OR STAPLING PATTERNS FOLLOW MANUFACTURER'S RECOMMENDATIONS. 	8. STABILIZE ANY DISTURBED SOIL THAT REMAINS FROM CHECK DAM REMOVAL OPERATIONS.	HAY BALE BARRIER	
TCH IS SEEDED IN LATE OMMENDED SEEDING DATES	MAINTENANCE	DEFINITION	INSTALLATION REQUIREMENTS	
	 INSPECT TEMPORARY EROSION CONTROL BLANKETS AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER FOR FAILURES. BLANKET FAILURE HAS OCCURRED WHEN (1) SOILS AND/OR SEED HAVE WASHED AWAY FROM BENEATH THE BLANKET AND THE SOIL SURFACE CAN BE EXPECTED TO 	1. STRUCTURALLY LINED APRONS OR OTHER ACCEPTABLE ENERGY DISSIPATING DEVICES PLACED BETWEEN THE OUTLETS OF PIPES OR PAVED CHAINEL SECTIONS AND A STABLE DOWNSTREAM CHANNEL.	SHEET FLOW APPLICATIONS	
	CONTINUE TO ERODE AT AN ACCELERATED RATE, AND/OR (2) THE BLANKET HAS BECOME DISLODGED FROM THE SOIL SURFACE OR IS TORN.	PURPOSE	ABUTTING ONE ANOTHER.	
	 IF WASHOUTS OR BREAKOUTS OCCUR, RE-INSTALL THE BLANKET AFTER REGRADING AND RE-SEEDING, ENSURING THAT BLANKET INSTALLATION STILL MEETS DESIGN SPECIFICATIONS. WHEN REPETITIVE FAILURES OCCUR AT THE SAME LOCATION, REVIEW CONDITIONS AND LIMITATIONS FOR USE AND DETERMINE IF DIVERSIONS, STONE CHECK DAMS OR OTHER MEASURES 	1. TO PREVENT SCOUR AT STORM DRAIN, CULVERT OR DRAINAGEWAY OUTLETS AND TO MINIMIZE THE POTENTIAL FOR DOWNSTREAM EROSION BY REDUCING THE VELOCITY OF CONCENTRATED STORM WATER FLOWS.	AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES TO PREVENT DETERIORATION OF THE BINDINGS.	
EDBED PREPARATION, E BE DONE IN ACCORDANCE	ARE NEEDED TO REDUCE FAILURE RATE. 3. REPAIR ANY DISLODGED OR FAILED BLANKETS IMMEDIATELY.		3. A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED AND CHINKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE BARRIER. BACKFILL SOIL SHALL CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHALL BE BUILT UP TO 4	
	4. WHEN USED AS A SUBSTITUTE FOR MULCH FOR SEED, CONTINUE TO INSPECT AS REQUIRED BY THE SEEDING MEASURE. WHEN USED AS A SUBSTITUTE FOR TEMPORARY SOIL PROTECTION, CONTINUE TO INSPECT UNTIL IT IS REPLACED BY OTHER	 AT THE OUTFALL OF ALL STORM DRAIN OUTLETS, ROAD COLVERTS, PAVED CHANNEL OUTLETS, NEW CHANNELS CONSTRUCTED AS OUTLETS FOR CULVERTS AND CONDUITS, ETC. DISCHARGING INTO NATURAL OR CONSTRUCTED CHANNELS, WHICH IN TURN DISCHARGE INTO EXISTING STREAMS OR DRAINAGE SYSTEMS 	INCHES AGAINST THE UPHILL SIDE OF THE BARRIER. BALES SHOULD BE PLACED 10 FEET AWAY FROM THE TOE OF SLOPES UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR DIRECTED.	
THE UNIVERSITY OF OCAL COOPERATIVE OR WHERE TIMING IS	PERMANENT TURF REINFORCEMENT MAT	PLANNING CONSIDERATIONS	4. EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER. STAKES OR REBARS SHALL BE DRIVEN DEEP ENOUGH INTO THE GROUND TO SECURELY ANCHOR THE BALES TOGETHER. STAKES OR	
PER 1,000 SQUARE FEET T OF SLOW RELEASE PERCENT CALCIUM PLUS	DEFINITION	I. AINALTSIS AND APPROPRIATE THEATMENT SHALL BE DONE ALONG THE ENTIRE LENGTH OF THE FLOW PATH FROM THE END OF THE CONDUIT, CHANNEL OR STRUCTURE TO THE POINT OF ENTRY INTO AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. WHERE FLOW IS EXCESSIVE FOR THE ECONOMICAL USE OF AN APPRON, EXCAVATED STILLING BASINS MAY BE USED.	 THE GAPS BETWEEN BALES SHALL BE CHINKED (FILLED BY WEDGING) STRAW BETWEEN THEM TO PREVENT WATER FROM FLOWING BETWEEN THE BALES. 	
ET	1. A MANUFACTURED MAT COMPOSED OF NON-BIODEGRADABLE POLYMER OR SYNTHETIC FIBERS MECHANICALLY, STRUCTURALLY OR CHEMICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX.	DESIGN CRITERIA	CHANNEL FLOW APPLICATIONS	
		1. DETERMINATION OF NEEDS. THE NEED FOR CONDUIT OUTLET PROTECTION SHALL TE DETERMINED BY COMPARING THE ALLOWABLE VELOCITY WHICH THE SQIL WILL WITHSTAND TO THE EXIT VELOCITY OF THE FLOW FROM THE CONDUIT. THE	1. BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.	
	TO ANHANCE THE ESTABLISHMENT OF VEGETATION AS THE ENAL SUBFACE PROTECTION	ALLOWABLE VELOCITY FOR WATER OVER THE SOIL SHALL BE THAT GIVEN IN FIGURE OP-1 BELOW. THE EXIT VELOCITY OF THE WATER IN THE CONDUIT SHALL BE CALCULATED USING THE GREATER OF THE CONDUIT DESIGN STORM OR THE 25-YEAR FREQUENCY STORM. WHEN THE EXIT VELOCITY OF THE WATER IN THE CONDUIT EXCEEDS THE ALLOWABLE VELOCITY FOR	2. THE REMAINING STEPS FOR INSTALLING A BALE BARRIER FOR SHEET FLOW APPLICATIONS APPLY HERE, WITH THE FOLLOWING ADDITION:	
	2. TO UNITARULE THE ESTADLISHIMENT OF VEGETATION AS THE FINAL SURFACE PROTECTION. APPLICABILITY	THE SOIL, OUTLET PROTECTION IS REQUIRED. OUTLET PROTECTION IS ALSO REQUIRED IF THE CONDUIT OUTFALL IS SET ABOVE THE RECEIVING CHANNEL (I.E., CANTILEVERED) CAUSING THE WATER TO DROP AT THE OUTLET END OF THE CULVERT.	3. THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE TO ASSURE THAT SEDIMENT LADEN RUNOFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER BUT NOT AROUND IT.	
WITH A DISC, SPRING TOOTH ALL BE ON THE GENERAL ALL BUT CLAY OR SILTY SOILS	1. IN CHANNELS WHERE DESIGN VELOCITIES EXCEED THE STABILITY LIMITS OF THE SOIL AND/OR VEGETATION, AND A SOFT-ARMORED APPROACH IS DESIRED.	FIGURE OP-1 ALLOWABLE VELOCITIES FOR VARIOUS SOILS SOIL TEXTURE ALLOWABLE VELOCITY (F1./SEC.)	MAINTENANCE	
	2. ON UNSTABLE SOILS WHERE INTERMITTENT FLOW EXISTS.	SAND AND SANDY LOAM 2.5	1. INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND PERIODICALLY DURING PROLONGED RAIN EVENTS AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.	
SEA MUST DE DETILLED AND	3. ON DISTURBED SOILS WITH SLOPES 2:1 OR FLATTER. ON SHORELINES ABOVE A PROTECTED OR STABLE TOPTO REDUCE SOIL EROSION.	SILT LOAM 3.0 SANDY CLAY LOAM 3.5	2. ACCUMULATED SEDIMENT BEHIND THE BALES SHALL BE REMOVED WHEN IT REACHES 1/2 OF THE ORIGINAL HEIGHT OF THE BALES.	
REA MUST BE RETILLED AND	PLANNING CONSIDERATIONS 1. AS A RULE OF THUMB, WHEN FLOWS OVER EXPOSED SOILS EXCEED 2 FEET PER SECOND AND FLOWS OVER PROPOSED TURF	CLAY LOAM 4.0	GEOTEXTILE SILT FENCE	OLD SAYBROOK, CONNECTICUT
WITH LEGUMES IS	AREAS EXCEED 56 FEET PER SECOND, THEN SOIL EROSION CAN BE EXPECTED. DESIGN CRITERIA	COBBLES 5.5	MATERIALS 1. GEOTEXTILE. GEOTEXTILE SHALL BE A PERVIOUS SHEET OF PROPYLENE. NYLON. POLYESTER OR ETHYLENE FILAMENTS AND	
WHEN CROWN VETCH IS RIFIED). THE RECOMMENDED	1. WHERE TURF REINFORCEMENT MATS ARE USED IN AREAS OF CONCENTRATED FLOWS AN ENGINEERED DESIGN IS REQUIRED. FOR OTHER APPLICATIONS REFER TO THE MANUFACTURER'S RECOMMENDATIONS.	SHALE 60	SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS: PHYSICAL PROPERTY REQUIREMENTS	REPLACEMENT OF
	MATERIAL	 RIPRAP APRONS 1. DESIGN LIMITATIONS: NO BENDS OR CURVES AT THE INTERSECTION OF THE CONDUIT AND THE APRON PROTECTION WILL BE 	FILTERING EFFICIENCY 75% (MIN)	
S IN THE COASTAL TOWNS OF	PERMANENT TURF REINFORCEMENT MATS SHALL:	PERMITTED. 2. THERE SHALL BE NO VERTICAL DROP FROM THE END OF THE APRON TO THE RECEIVING CHANNEL.	TENSILE STRENGTH AT 20% (MAX) ELONGATION - EXTRA STRENGTH 50 LBS./LIN. IN. (MIN)	
	CONSIST OF OUTRAVIOLET NGET RESISTANT POLITIER OR STATECTIC FIBERS MECHANICALIF, STRUCTURALLT, AND/OR CHEMICALLY BOUND TOGETHER FOR A CONTINUOUS MATRIX OF CONSISTENT THICKNESS;	OTHER OUTLET PROTECTIONS	STANDARD STRENGTH 30 LBS./LIN. IN. (MIN)	
ONS, OR ACCEPTED	2. CONTAINING CONTAINING TO PAIL FOLLOTE THE AIR OR WATERS OF THE STATE WHEN PROPERLY INSTALLED, AND BE FREE OF ANY SUBSTANCE TOXIC TO PLANT GROWTH AND UNPROTECTED HUMAN SKIN OR WHICH INTERFERES WITH SEED GERMINATION;	1. STANDARD ENGINEERING PRACTICES ALLOW FOR MANY DEFERENT TYPES OF OUTLET PROTECTION WHICH PROVIDE ENERGY DISSIPATION. COMMON OUTLET PROTECTIONS INCLUDE THE USE OF A RIPRAP APRON AND A RIPRAP STILLING BASIN	FLOW RATE 0.3 GAL./SF/MIN. (MIN.) 2. STAKES FOR GEOTEXTILE SILT FENCES SHALL BE 1" X 1" WOOD WITH A MINIMUM LENGTH OF 5 FEET.	OVER FISHING
IYDROSEEDER. NORMAL ON SOIL SURFACE.	3. MATERIALS SHALL BE SELECTED AS APPROPRIATE FOR THE SPECIFIC SITE CONDITIONS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. USE OF ANY PARTICULAR PERMANENT TURF REINFORCEMENT MAT SHOULD BE SUPPORTED BY MANUFACTUREPISTEST DATA THAT CONFIDMS THE MAT WILL PROVIDE THE LONG TERM EPOSION CONTROL	INSTALLATION REQUIREMENTS	3. WIRE FENCE REINFORCEMENT FOR GEOTEXTILE SILT FENCES USING STANDARD STRENGTH MATERIAL SHALL BE A MINIMUM OF 42 INCHES IN HEIGHT, A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 INCHES.	BROOK
USED, THE SEEDBED	CAPABILITIES NECESSARY FOR THE SPECIFIC PROJECT, AND;	1. INSTALL IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENGINEERED DESIGN.	INSTALLATION REQUIREMENTS	DROOR
R CONDITIONS ARE FREEZING EASED 10 PERCENT WHEN	INSTALLATION REQUIREMENTS	MAINTENANCE 1. INSPECT THE COMPLETED STRUCTURE ANNUALLY AND AFTER EACH MAJOR RAINFALL FOR DAMAGE AND DETERIORATION.	 THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES. (HIGHER BARRIERS MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE). THE SEDIMENTATION CONTROL FENCE SHALL BE PLACED 10 FEET AWAY FROM THE TOE OF SLOPES UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR DIRECTED. 	
AS. WHEN HYDROSEEDING, A	1. PREPARE SITE AND INSTALL IN ACCORDATICE WITH MANUFACTURER'S REQUIREMENTS. ESTABLISH VEGETATIVE COVER IN ACCORDANCE WITH THESE GUIDELINES. NODIFY THE SEQUENCE OF APPLICATION TO MEET THE MANUFACTURER'S	REPAIR DAMAGES IMMEDIATELY.	2. WHEN JOINTS ARE NECESSARY, GEOTEXTILE ROLL ENDS SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP AND SECURELY SEALED IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS.	
OTH THE SOIL AND TO PER THAN 2 TO 1 (2 FEET OUSLY WITH THE SEED. THE	 REQUIREMENTS FOR THE SPECIFIC INSTALLATION. INSPECT THE INSTALLATION TO ENSURE THAT THE MAT IS IN DIRECT CONTACT WITH THE PREPARED SOIL SURFACE, ALL LAP INSPECT THE INSTALLATION TO ENSURE THAT THE MAT IS IN DIRECT CONTACT WITH THE PREPARED SOIL SURFACE, ALL LAP 	DEFINITION	 POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM DEPTH OF 12 INCHES. 	
STRAW OR HAY). FIBER D BY USING STRAW MULCH H. SEEDING RATES MUST BE	JOINTS ARE SECORE, ALL EDGES AND INTERIOR MATS ARE PROPERLY ANCHORED AND/OR TREATED, BACKFILLING FOLLOWS THE MANUFACTURER'S REQUIREMENTS, AND THE VEGETATIVE SOIL MEASURES USED HAVE BEEN CORRECTLY APPLIED.	1. AN OUTLET FOR DIVERSIONS AND OTHER WATER CONVEYANCES CONSISTING OF AN EXCAVATED DEPRESSION WITH A BROAD STABLE POINT OF DISCHARGE CONSTRUCTED AT ZERO GRADE ACROSS A SLOPE.	4. WHEN STANDARD STRENGTH GEOTEXTILE IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE	SEDIMENT CONTROL
	MAIN LENANCE 1. INSPECT PERMANENT TURF REINFORCEMENT MAIS AT LEAST ONCE AWEEK AND WITHIN 24 HOURS OF THE END OF A STORM	PURPOSE	WIRE SHALL EXTEND INTO A TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.	NOTES
EASURE TO PROTECT THE	WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER FOR FAILURES UNTIL THE TURF HAS BECOME ESTABLISHED. MAT FAILURE HAS OCCURRED WHEN SOILS AND/OR SEEL HAVE WASHED AWAY FROM BENEATH OR WITHIN THE MAT RESULTING IN A SOIL SURFACE THAT CAN BE EXPECTED TO CONTINUE TO EROTE OR WHEN THE MAT HAS BECOME DISLODGED FROM	 TO REDUCE THE DEPTH AND VELOCITY OF CONCENTRATED RUNOFF AND RELEASE IT UNIFORMLY AS SHEET FLOW ONTO A STABLE AREA. 	 THE STANDARD STRENGTH GEOTEXTILE SHALL BE STAPLED, WIRED OR TIED TO THE WIRE FENCE, AND 8 INCHES OF THE GEOTEXTILE SHALL BE EXTENDED INTO THE TRENCH. 	
	THE SOIL SURFACE. WHEN REPETITIVE FAILURES OCCUR AT THE SAME LOCATION, REVIEW CONDITIONS AND LIMITATIONS OF TURF REINFORCEMENT MATS AND DETERMINE IF ADDITIONAL CONTROLS, (E.G. DIVERSIONS, STONE BARRIERS) ARE NEEDED TO ENSURE SUCCESS. REPAIR MAT FAILURES WITHIN ONE WORK DAY.	APPLICABILITY 1. WHERE THERE IS A NEED TO CARRY STORN WATER AWAY FROM DISTURBED AREAS AND TO AVOID STRESSING EROSION	 WHEN EXTRA STRENGTH GEOTEXTILE OR BURLAP AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. 	
VO TONS PER ACRE (100	2. AFTER THE TURF HAS BECOME ESTABLISHED, INSPECT ANNUALLY OR AFTER MAJOR STORM EVENTS.	CONTROL MEASURES. 2. WHERE SEDIMENT REDUCED RUNOFF CAN BE RELEASED IN SHEET FLOW OVER A STABILIZED SLOPE WITHOUT CAUSING	7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE GEOTEXTILE.	CONTRACT DRAWINGS
NIALLY, 300 POUNDS OF	ENERGY DISSIPATORS	EROSION. 3. WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL.	1. INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND PERIODICALLY DURING PROLONGED RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE AS REQUIRED.	
T THREE YEARS 300 POUNDS	DEFINITION	4. WHERE THE AREA BELOW THE LEVEL SPREADER LIP HAS A SLOPE OF 5% OR FLATTER AND IS STABILIZED BY VEGETATION.	2. ACCUMULATED SEDIMENT BEHIND THE FENCE SHALL BE REMOVED WHEN IT REACHES 1/2 OF THE HEIGHT OF THE BARRIER.	ANY ALTERATIONS TO THIS DRAWING MADE WITHOUT THE EXPRESSED WRITTEN APPROVAL OF NATHAN L. JACOBSON & ASSOCIATES, INC. WILL BE
	1. A TEMPORARY STONE DAM PLACED ACROSS A DRAINASEWAY.	PLANNING CONSIDERATIONS 1. THE TEMPORARY DIVERSION MEASURE AND THE WATER BAR MEASURE EACH CALLS FOR A STABLE OUTLET FOR		AT THE SOLE RISK OF THE PERSON OR FIRM MAKING SUCH UNAUTHORIZED ALTERATIONS AND NATHAN L. JACOBSON & ASSOCIATES, INC. WILL NEITHER HAVE NOR ACCEPT ANY LIABILITY OR I FGAL EXPOSURE ARISING FROM SAID
	PURPOSE 1. TO REDUCE THE VELOCITY OF CONCENTRATED STORM WATER ELOUIS. THEREBY REDUCING FROSION OF THE	CONCENTRATED STORM WATER FLOWS. THE LEVEL SPREADER IS A RELATIVELY LOV-COST STRUCTURE TO RELEASE SMALL VOLUMES OF CONCENTRATED FLOW WHERE SITE CONDITIONS ARE SUITABLE.		UNAUTHORIZED ALTERATIONS.
DR AND EQUIPMENT. OTHER	DRAINAGEWAY. 2. TO TEMPORARILY POND STORM WATER RUNOFFTO ALLOW SEDIMENTS TO SETTLE OUT	2. CHECK THE PROPOSED LOCATION OF THE LEVEL SPREADER TO ENSURE IT CAN BE CONSTRUCTED ON LEVEL, STABLE, AND UNDISTURBED GROUND. ANY DEPRESSIONS IN THE OUTLET LIP OF THE SPREADER COULD CONCENTRATE FLOW, AND RESULT IN EROSION. CHECK CONDITIONS DOWNSLOPE FORM THE SPREADER TO ENSURE THE RUNOFF WATER WILL NOT		Nathan L. Jacobson & Associates, Inc.
	APPLICABILITY	RECONCENTRATE AFTER RELEASE UNLESS IT OCCURS DURING INTERCEPTION BY ANOTHER MEASURE (SUCH AS A PERMANENT POND OR DETENTION BASIN) LOCATED BELOW THE LEVEL SPREADER.		Chester, Connecticut 06412-0337
	 WHERE CONCENTRATED FLOWS ARE EXPECTED TO CAUSE EROSION. FOR TEMPORARY DRAINAGEWAYS WHICH RECAUSE OF THEIR SHOPT LENGTH OF SEDVICE WILL NOT DECEME A 	3. FOR HIGHER DESIGN FLOW CONDITIONS, A RIGID OUTLET LIP DESIGN IS REQUIRED TO ENSURE THE DESIRED SHEET FLOW CONDITIONS.		Lacobson 0
NESTRICTIONS NOTED BELOW:	CONTRACT OF SERVICE, WILL NOT RECEIVE A NON-ERODABLE LINING BUT STILL NEED PROTECTION TO REDUCE EROSION. FOR PERMANENT DRAINAGEWAYS WHICH FOR SOME REASON, WILL NOT RECEIVE A DEPMANENT NON ERODABLE LINING	4. SPECIAL CARE SHALL BE TAKEN WHEN DESIGNING LEVEL SPREADERS ON TERRACE ESCARPMENTS LOCATED IN THE CONNECTICUT RIVER VALLEY. THESE AREAS ARE VERY SUSCEPTIBLE TO EROSION BY THE CONCENTRATION FLOWS. CONSIDER USING ALTERNATIVE METHODS TO DISCHARGE RUNOFF THROUGH THE ESCARPMENT AREA.		Consulting Civil and Environmental Engineers Since 1972
ET	 FOR AN EXTENDED PERIOD OF TIME. FOR TEMPORARY OR PERMANENT DRAINAGEWAYS WHICH NEED PROTECTION DIPONG THE ESTADLISHMENT OF VEGETATIVE 	DESIGN CRITERIA		NOT VALID WITHOUT ORIGINAL SEAL
	LININGS. THIS MEASURE IS NOT A SUBSTITUTE FOR A TEMPORARY SEDIMENT TRAN OR A TEMPORARY SEDIMENT BASIN, HOWEVER, STONE CHECK DAMS MAY BE USED IN CONJUNCTION WITH THOSE MEAS JRES.	 SLOPES SHALL BE SUFFICIENTLY SMOOTH TO PRESERVE SHEET FLOW AND PREVENT FLOW FROM CONCENTRATING. CRITERIA PROVIDED BELOW ARE FOR FLOWS FROM A 10-YEAR FREQUENCY STORM THAT IS EQUAL TO OR LESS THAN 20 CES 		
TRAW OR HAY MULCH BY AND PLACE 35-45 POUNDS	PLANNING CONSIDERATIONS	(Q10 < 20 CFS). FOR HIGHER FLOWS USE OTHER STANDARD ENGINEERING PRACTICES THAT WILL RESULT IN A DIFFUSE NON-EROSIVE DISCHARGE.		
	A STONE CHECK DAM IS CONSIDERED TO BE TEMPORARY IF IT IS USED LESS THAN 1 YEAR. IT IS CONSIDERED TO BE PERMANENT IF IT IS USED MORETHAN 1 YEAR.	SPREADER DIMENSIONS		
WINDBLOWING. HAY OR Y USING NETTING.	DESIGN REQUIREMENTS DRAINAGE AREA LENGTH OF USE NO ENGINEERED DESIGN < OR = 2 ACRES	 SELECT THE APPROPRIATE LENGTH, WIDTH AND DEPTH OF THE SPREADER FROM TABLE LS-1 BELOW. 		
	2-YR FREQUENCY STORM >2 ACRES 6 MONTHS TO <1 YEAR	3. PROVIDE A 20-FOOT TRANSITION SECTION IN THE DIVERSION CHANNEL SO THAT THE WIDTH OF THE DIVERSION WILL SMOOTHLY TRAISITION WITH THE WIDTH OF THE SPREADER TO ENSURE MORE UNIFORM OUTFLOW.		
ECK FOR RILL EROSION. ECTED AFTER RAINSTORMS	25-YR FREQUENCY STORM ANY DRAINAGE SIZE >1 YEAR DESIGN CRITERIA	4. MAKE THE DEPTH OF THE LEVEL SPREADER, AS MEASURED FROM THE LIP, AT LEAST 6 INCHES. THE DEPTH MAY BE MADE GREATER TO INCREASE TEMPORARY STORAGE CAPACITY, IMPROVE TRAPPING OF DEBRIS AND TO ENHANCE SETTLING OF ANY SUSPENDED SOLDS.		
ISHED. GRASSES SHALL NOT GH TO CONTROL SOIL	1. FOR USE OF A STONE CHECK DAM LESS THAN 1 YEAR, DESIGN THE STONE CHECK DAM TO SAFELY PASS THE PEAK FLOW EXPECTED FROM A 2 YEAR FREQUENCY STORM WITHOUT STRUCTURAL FAILURE AND ADVERSE TAL WATER EFFECTS.	TABLE .S-1 MINIMUM DIMENSIONS FOR LEVEL SPREADER		J. HOWARD PFROMMER, P.E. CT REGISTRATION No. 15871
TAINING COVERAGE OF THE	2. FOR USE OF A STOLE CHECK DAM EXCEEDING 1 YEAR, DESIGN THE STONE CHECK DAM TO SAFELY PASS THE PEAK FLOW EXPECTED FROM A 25-YEAR FREQUENCY STORM WITHOUT STRUCTURAL FAILURE OF THE CHECK DAM AND ADVERSE	DESIGN FLOW, Q10 (CFS) DEPTH (FT.) WIDTH OF LOWER SIDE SLOPE SPREADER (FT.) LENGTH (FT.) 0 - 10 0.5 6 10 10 - 20 0.6 6 2		COPYRIGHT 2024 NATHAN L. JACOBSON & ASSOCIATES, INC.
	TAILWATER EFFECTS. SPECIFICATIONS	GRADE		REVISIONS
R POLYMER FIBERS AND/OR	1. FOR ENGINEERED STONE CHECK DAMS, CONSTRUCT THE STONE CHECK DAM IN ACCORDANCE WITH THE RESIGN STANDARDS AND SPECIFICATIONS. FOR ALL NON-ENGINEERED STONE CHECK DAMS, COMPLY WITH THE FOLLOWING	1. THE GRADE OF THE CHANNEL FOR THE LAST 20 FEET OF THE DIKE OR DIVERSION ENTERING THE LEVEL SPREADER SHALL BE NO STEEPER THAN 1%.		No. DESCRIPTION DATE
ER TO FORM A CONTINUOUS	SPECIFICATIONS. MATERIALS	2. THE GRADE OF THE LEVEL SPREADER CHANNEL SHALL BE 0.0%.		
	1. STONE: SHALL MEET THE REQUIREMENTS OF DOT STANDARD SPECIFICATIONS SECTION M.01.01, 2" CRUSHED STONE. THE STONE SHALL BE SOUND, TOUGH, DURABLE, ANGULAR, NOT SUBJECT TO DISINTEGRATION ON EXPOSIBLE TO WATER OR	THE LEVEL LIP OF THE SPREADER SHALL BE OF UNIFORM HEIGHT AND ZERO GRADE OVER THE LENGTH OF THE SPREADER		
YEGETATION.	WEATHERING, BE CHEMICALLY STABLE, AND SHALL BE SUITABLE IN ALL OTHER RESPECTS FOR THE PURPOSE INTENDED.	WITH ITS DISCHARGE TO AN UNDISTURBED WELL-VEGETATED AREA HAVING A MAXIMUM SLOPE OF 5%. SLOPES SHALL BE SUFFICIENTLY SMOOTH TO PRESERVE SHEET FLOW AND PREVENT FLOW FROM CONCENTRATING.		
	 PLICE THE STONE BY HAND OR MACHINE, MAKING THE SIDE SLOPES NO STEEPER THAN 1.5:1 (I.E., THE ANGLE OF RELOSE) WITH A MAXIMUM HEIGHT OF 3 FEET AT THE CENTER OF THE CHECK DAM A CENTER THAN 25 USED UNDED THE CENTER 	2. THE LEVEL SPREADER LIP MAY BE STABILIZED BY VEGETATION OR MAY BE OF A RIGID NON-ERODIBLE MATERIAL DEPENDING IN THE EXPECTED DESIGN FLOW.		
LCHES.	TO PROVIDE A STABLE FOUNDATION AND TO FACILITATE REMOVAL OF THE STONE.	3. A VEGETATED LEVEL LIP SHALL BE CONSTRUCTED WITH AN EROSION-RESISTANT MATERIAL, SUCH AS PERMANENT TURF REINFORCEMENT MATTING OR TEMPORARY EROSION CONTROL BLANKETS, TO INHIBIT EROSION AND ALLOW VEGETATION TO BECOME ESTABLISHED.		DATE: OCTOBER 1, 2024 SHEET No.:
	SHALL NOT EXCEED 3 FEET IN HEIGHT AT THE CENTER. EXTEND THE STONE CHECK DAM TO THE DRAINAGEWAY BUT I DRAINAGEWAY, PLUS 18 INCHES ON EACH SIDE LEAVING THE HEIGHT OF THE CENTER OF THE STONE CHECK DAM APPROXIMATELY 6 INCHES LOWER THAN THE HEIGHT OF THE OUTER FDGFS	4. FOR HIGHER DESIGN FLOWS AND PERMANENT INSTALLATIONS, A RIGID LIP OF NON-ERODIBLE MATERIAL, SUCH AS PRESSURE-TREATED TIMBERS OR CONCRETE CURBING, SHALL BE USED.		SCALE: N.T.S. PROJECT No.: 07470045
	THE MAXIMUM SPACING BETWEEN CHECK DAMS SHALL BE SUCH THAT THE TOE OF THE UPSTREAM CHECK DAM IS AT THE SAME ELEVATION AS THE TOP OF THE CENTER OF THE DOWNSTREAM CHECK DAM.	FIGURE LS-2 <u>DISCHARGE LIMITATION</u> SPREADER LIP DESIGN FLOW (CFS)		CADD FILE: 07470045ED DESIGNED: JHP 7 OF 16
ILINUE IU IME	/			DRAWN: AJG CHECKED: JMD









CONSTRUCTION SIGN LEGEND						
SIGNATION	CTDOT SIGN NUMBER	DIMENSION	SIGN FACE			
A	31–1906	48"x42"	ROAD WORK AHEAD FINES DOUBLED			
B	80–9834	36"	ONE LANE ROAD AHEAD			
0	80–9050	36"				
D	31–0552	30"	STOP			

		6		J	
				NOTES:	
				1. SEE SHEET 15 FOR PROJECT NOTES.	
	ŀ	IYDRAULIC DATA			
	DRAINAGE AREA		0.66 SM 50 YEAR		
	DESIGN DISCHARGE		123 CFS		
			25.8± FT.		
	CULVERT DOWNSTREAM	DESIGN WATER SURFACE ELEVATION	27.8 FT. 27.2 FT.		
	NOTICE	TO BRIDGE INSPECTO	RS		
	THE TOWN'S PROCEDURES LIMITED TO, ALL APPROPRIAT FOR BRIDGE INSPECTION. AT	REQUIRE THIS BRIDGE TO BE INSPECT E COMPONENTS INDICATED IN THE GO ENTION MUST BE GIVEN TO INSPECTI	ED FOR, BUT NOT VERNING MANUALS NG THE FOLLOWING		
	SPECIAL COMPONENTS AND ATTENTION SHALL NOT BE CO OF ANY OTHER COMPONENT (DETAILS. (THE LISTING FOR COMPONE DINSTRUED TO REDUCE THE IMPORTAN DF THE STRUCTURE.) THE FREQUENCY	NTS FOR SPECIFIC ICE OF INSPECTION OF INSPECTION OF		
	THIS STRUCTURE SHALL BE BRIDGE INSPECTION	IN ACCORDANCE WITH THE GOVERNII I, UNLESS OTHERWISE DIRECTED BY T	NG MANUALS FOR HE TOWN.		
	COMPONENTS AND DE NONE	TAIL DRAWING NUMBE			
		DENTIFICATION PLACA			
	EACH BRIDGE END WALL ON T 40 GAUGE ALUMINUM SHE RETROREFLECTIVE BLOCK L	HE TRAFFIC SIDE. THE SIGNS SHALL BE ET METAL. THE SIGNS SHALL BE 4"x12 ETTERS ON GREEN RETROREFLECTIV	E FABRICATED WITH WITH 3" WHITE SHEETING. EACH		
	SIGN SHALL READ: 105003. TH (TYPE IX RETROREFLECTI) METHOD FOR THE SIGN	HE BRIDGE SIGNS SHALL BE SIGN FACE (E SHEETING). THE FINAL LOCATION AN S SHALL BE APPROVED BY THE ENGINI	E SHEET ALUMINUM ND ATTACHMENT EER PRIOR TO		
		INSTALLATION.			
	CON	CRETE DISTRIBUTION	_		
		UNIT QUANTITY	_		
	SUBSTRUC	CTURE C.Y. 119		GRAPHIC SCALE	40
	FOOTINGS	C.Y. 130		SCALE: 1"=5'	
	TRANSPORAT	ION DIMENSIONS AND	WEIGHT		
	MEMBER SHIF LEN PRECAST FRAME 16	PPING SHIPPING SHIPPIN IGTH HEIGHT WIDTH I'-8" 5'-7" TBD	IG SHIPPING H WEIGHT TBD	TOWN OF OLD SAYBROOK, CONNECTIC	UT
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				BROOK	
				GENERAL PLAN	
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			J		
				WRITTEN APPROVAL OF NATHAN L. JACOBSON & ASSOCIATES, INC. V AT THE SOLE RISK OF THE PERSON OR FIRM MAKING SUCH UNAUTH ALTERATIONS AND NATHAN L. JACOBSON & ASSOCIATES, INC. WILL N HAVE NOR ACCEPT ANY LIABILITY OR LEGAL EXPOSURE ARISING FRO	NILL BE ORIZED IEITHER OM SAID
				UNAUTHORIZED ALTERATIONS.	
				86 Main Street P.O. Box 337 Chester, Connecticut 06412-0337	
13. <u>CON</u>		NT SHALL HAVE 2" COVER UNLESS DIM	IENSIONED	Tel: (860) 526-9591 Fax: (860) 526-54 www.nlja.com	·16
14. REIN	FORCEMENT: ALL REINFORCEMEN		ICATION UNLESS		1012
A767	CLASS 1, INCLUDING SUPPLEMEN	TAL REQUIREMENTS.		INCT VALID WITHOUT ORIGINAL SEAL	
15. <u>CON</u> WILL		PRIOR APPROVAL OF THE ENGINEER.			
16. <u>CAS</u> CAS	I-IN-PLACE CONCRETE: THE SAME				
17. <u>LAP</u> PERI	<u>SPLICES:</u> LAP SPLICES, OTHER THA	NN THOSE SHOWN ON THE DRAWINGS, DVAL OF THE ENGINEER.	WILL NOT BE		
18. <u>MINII</u> #4 3	MUM LAP SPLICE LENGTHS: UNLES	S UTHERWISE SHOWN:			
#5 4 #6 6 #7 7	8 0" 2"			J. HOWARD PFROMMER, P.E. CT REGISTRATION No. 15871	
#8 7 19. <u>CAS</u>	2" T INSERTS OR HOLES: INSERTS OR	HOLES CAST INTO THE CULVERT SEC	TIONS FOR THE SOLE	C COPYRIGHT 2024 NATHAN L. JACOBSON & ASSOCIATES, IN ALL RIGHTS RESERVED.	NC.
	POSE OF HANDLING AND SEATING T N COMPLETION OF THE WORK.	HE UNITS SHALL BE GROUTED OVER	TO A SMOOTH FINISH	REVISIONS No. DESCRIPTION	DATE
20. <u>INSE</u> SHAI	<u>RTS</u> : INSERTS SHALL BE HOT DIPP _L BE ONE OF THE FOLLOWING:	ED GALVANIZED IN ACCORDANCE WITH	HASTM A153, AND		
STAF RICH DAY	R EXPANSION INDUSTRIES CORP. IMOND SCREW ANCHOR COMPANY FON SUPERIOR CORPORATION	TYPE P-35-T TYPE LF TYPE F-57			
21. <u>THRI</u> THRI	EADED BARS: BARS WITH THREADE	ED ENDS SHALL BE COMPATIBLE WITH FULLY ENGAGE THE INSERTS. THRFAR	THREADED INSERTS. DED BARS SHALL		
22 DOM	FORM TO THE REQUIREMENTS FOR	REINFORCEMENT IN NOTE 3.	BE ONE OF THE	DATE: OCTOBER 1, 2024 SHEET No.:	
FOLL	IMOND SCREW ANCHOR COMPANY	D-B-SAE AND DOWFI -IN	vr m/L	SCALE: AS NOTED PROJECT No.: 07470045 CADD FILE: 074700455	
DAY	TON SUPERIOR CORPORATION BE COMPANY, INC.	D-50 DBR COUPLER DS SPLICE CLIP		DESIGNED: JHP DRAWN: AJG	16
				CHECKED: JMD	

1. CUT OVERLAY WITH A 3/8"x1 3/4" DEEP KERF CUT AND FILL WITH POURABLE BITUMINOUS SEALANT.

AJG

JMD

DRAWN:

CHECKED:

SEA COI	ALER PROTECTIVE
	P OF WALL
₹EL.	VARIES
# 5	PARALLEL TO TOP
# 5	@ 11"————

NOTES:	
1. SEE SHEET 15 FOR PROJECT NOTES.	
GRAPHIC SCALES	
SCALE: 1"=1'-0" 1'-0" 9" 6" 3" 0 1'-0" 2'-0"	
SCALE: 3/4"=1'-0" 12" 11" 10" 9" 8" 7" 6" 5" 4" 3" 2" 1"	0
SCALE: 3"=1'-0"	
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OLD SATEROOK, CONNECTIC	01
REPLACEMENT OF	-
BRIDGE NO. 105003	3
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DESCRIPTION OVER FISHING BROOK DEVENDENT DETAILS DESCRIPTION	AC.

PR	OJECT NOTES:	R	EF
1.	IN-RIVER CONSTRUCTION WINDOW: THE IN-RIVER CONSTRUCTION WINDOW FOR UNCONFINED CONSTRUCTION ACTIVITIES SHALL BE JULY 1 TO MARCH 31, INCLUSIVE. THE INSTALLATION AND	1.	١
	REMOVAL OF COFFERDAMS ARE NOT PERMITTED FROM APRIL 1 TO JUNE 30, INCLUSIVE. IN-RIVER UNCONFINED CONSTRUCTION ACTIVITIES SHALL NOT OCCUR AT ANY OTHER TIME OF THE YEAR EXCEPT DURING THE IN-RIVER UNCONFINED CONSTRUCTION ACTIVITIES WINDOW PERIOD. "CONFINED" SHALL BE DEFINED AS BEHIND A COFFERDAM AND FOR THE PURPOSES OF COFFERDAM INSTALLATION AND REMOVAL, BEHIND TURBIDITY CONTROL CURTAINS OR CONTAINMENT BOOM.	2. 3.	0 11 4 11
	DEWATERING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF WATER TO ENABLE CONSTRUCTION IN THE DRY, INCLUDING BUT NOT LIMITED TO TRENCHES, EXCAVATIONS, WATER CONTROL STRUCTURES AND COFFERDAMS, THAT MAY BE REQUIRED TO PROPERLY COMPLETE THE WORK. PARTICULAR ATTENTION IS CALLED TO FLUCTUATIONS IN WATER FLOWS AND LEVELS THAT MAY OCCUR DUE TO PRECIPITATION EVENTS. NO EXTRA MONETARY COMPENSATION WILL BE	4.	1 S L
	ALLOWED DUE TO WATER FLOW OR LEVEL FLUCTUATIONS. WHETHER PUMPING OR SIPHONING FOR DEWATERING IS USED OR NOT, IN ALL CASES, THE DISCHARGE SHALL BE HANDLED SO AS TO AVOID EROSION AND SEDIMENTATION AS APPROVED BY THE ENGINEER. TAKE ALL NECESSARY PRECAUTIONS AND FURNISH EQUIPMENT REQUIRED TO HANDLE ALL SURFACE, SUBSURFACE AND FLOOD FLOWS WHICH MAY BE ENCOUNTERED AT ANY TIME DURING CONSTRUCTION.		B
1 1	TEMPORARY HYDRAULIC FACILITIES: PROVIDE TEMPORARY HYDRAULIC FACILITIES TO CARRY THE WATERCOURSE THROUGH THE CONSTRUCTION SITE IN A CONTROLLED MANNER. TEMPORARY HYDRAULIC FACILITIES SHALL BE DESIGNED FOR THE TEMPORARY CRITERIA SHOWN ON SHEET 10. THE CONTRACTOR SHALL INCLUDE THESE CRITERIA IN HIS COFFERDAM SUBMISSION.		C
	CONSTRUCTION FLOOD CONTINGENCY OPERATION PLAN: ALL TEMPORARY STRUCTURES, MATERIAL AND EQUIPMENT SHALL BE REMOVED FROM THE FLOOD PLAIN UPON A 'FLOOD WARNING NOTIFICATION' FOR THE PROJECT AREA ISSUED BY THE U.S. WEATHER SERVICE.		
	EROSION CONTROLS: INSTALL EROSION CONTROLS TO THE MAXIMUM EXTENT POSSIBLE AND OBTAIN APPROVAL OF THE INSTALLATION (NOT THE DESIGN) FROM THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.		
	MAINTENANCE OF EROSION CONTROLS: INSPECT EROSION CONTROLS REGULARLY AND IMMEDIATELY AFTER RAINFALL EVENTS AND MAINTAIN AND MODIFY AS NECESSARY OR AS DIRECTED BY THE TOWN TO ENSURE OPTIMUM PERFORMANCE.		
	PERMITS: ALL ACTIVITIES SHALL COMPLY WITH LOCAL, STATE AND FEDERAL AUTHORIZATIONS; SEE PROJECT MANUAL.		
	SWEEPING: SWEEP OFF OPEN SECTIONS OF ROADWAY DAILY FROM DIRT AND DEBRIS TRACKED FROM CONSTRUCTION ACTIVITIES.		
	STOCKPILES: INSTALL EROSION CONTROLS AROUND THE BASE OF ALL SOIL MATERIAL STOCKPILES, AND TEMPORARILY SEED OR COVER THE PILES WITH AN IMPERVIOUS COVER IF THEY WILL REMAIN ON THE SITE LONGER THAN ONE MONTH.		
	<u>CONSTRUCTION VEHICLES</u> : NO CONSTRUCTION VEHICLES WILL BE STORED, SERVICED, REFUELED, WASHED, OR FLUSHED OUT IN A LOCATION WHERE LEAKS, SPILLAGE, WASTE MATERIALS, CLEANERS, OR WATERS WILL BE INTRODUCED OR FLOW INTO WETLANDS OR WATERCOURSES.	A ▲	
	SPILL KIT: PROVIDE AND MAINTAIN A SUPPLY OF ABSORBENT SPILL RESPONSE BOOMS AND BLANKETS ON-SITE FOR THE ENTIRE CONSTRUCTION PERIOD.	L	r
	<u>CONTAMINENT SPILLS</u> : NO EQUIPMENT STORAGE, CLEANING, REPAIRING, OR REFUELING SHALL BE CONDUCTED WITHIN 25' OF A WETLAND BOUNDARY. SHOULD ANY CONTAMINANT SPILL OCCUR, IMMEDIATELY NOTIFY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, OIL AND CHEMICAL SPILL RESPONSE DIVISION AT 860-424-3338 AND THE ENGINEER.		
	EQUIPMENT MAINTENANCE AND REFUELING: DURING CONSTRUCTION, ROUTINE EQUIPMENT MAINTENANCE AND REFUELING SHALL OCCUR AWAY FROM STORMWATER CATCH BASINS, ON IMPERVIOUS SURFACE WITH OIL ABSORBENT SPILL RESPONSE MATERIALS IN PLACE. NON-ROUTINE MAINTENANCE OF EQUIPMENT SHALL BE CONDUCTED OFF-SITE. SHOULD ANY CONTAMINANT SPILL OCCUR, IMMEDIATELY NOTIFY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, OIL AND CHEMICAL SPILL RESPONSE DIVISION AT 860-424-3338 AND THE ENGINEER.		
	FUEL STORAGE: BULK FUEL FOR CONSTRUCTION PURPOSES SHALL NOT BE STORED ON-SITE. HAZARDOUS MATERIAL STORAGE: DURING CONSTRUCTION, ALL OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHALL BE STORED OFF-SITE, OR IF ON-SITE, THEN WITHIN A SECONDARY CONTAINMENT		A
ב ד וו F	TRUCTURE WITH AN IMPERVIOUS FLOOR THAT WILL BE SECURED DURING NON-WORKING HOURS. <u>(REES</u> : TREES AND VEGETATION TO BE REMOVED MAY NOT ALL BE SHOWN, BUT SHALL BE INCLUDED N THE WORK. IN ALL CASES, CLEARING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO PERFORM THE CONSTRUCTION AS APPROVED BY THE TOWN. TREES TO BE REMOVED SHALL BE NEW VENUE VENUES IN THE DEVICE THE OWNER TO DE TO THE REMOVED SHALL BE		
	<u>MATERIAL DISPOSAL</u> : SURPLUS OR UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL ORDINANCES, RULES, REGULATIONS AND		
	CODES. <u>CUTTING PAVEMENT</u> : PAVEMENTS TO BE CUT SHALL BE SAW CUT. PRIOR TO PAVING, CLEAN FACE OF EXISTING PAVEMENT AND PAINT WITH LIQUID BITUMEN. MATCH EXISTING GRADES WITH NEW PAVEMENT		
1	UNDERGROUND UTILITIES: FOR LOCATION OF UNDERGROUND ELECTRIC, TELEPHONE, GAS, CABLE TV AND OTHER FACILITIES OF PUBLIC UTILITY COMPANIES, INQUIRE OF "CALL BEFORE YOU DIG, INC." AT		
<u>U</u> S	<u>TILITIES</u> : THERE ARE UNDERGROUND UTILITIES, BUT NO OVERHEAD UTILITIES, AT THE PROJECT ITE.		
	ELECTRIC - EVERSOURCE ENERGY TELEPHONE - FRONTIER COMMUNICATIONS OF CONNECTICUT CABLE TELEVISION - COMCAST OF CONNECTICUT, INC.		
	INFORMATION OR DATA SHOWN ON OR INDICATED IN THE CONTRACT DOCUMENTS WITH RESPECT TO EXISTING UNDERGROUND PIPES, CABLES, CONDUITS, STRUCTURES OR OTHER UNDERGROUND FACILITIES IS BELIEVED TO BE REASONABLY CORRECT BUT IS NOT GUARANTEED TO BE EXACT OR COMPLETE. SUCH INFORMATION SHALL BE CONSIDERED TO HAVE BEEN PROVIDED FOR THE CONVENIENCE OF THE CONTRACT AND TO ALERT THE CONTRACTOR TO THE EXISTENCE OF SUCH UNDERGROUND FACILITIES WITHIN OR CONTIGUOUS TO THE PROJECT SITE AND THE TOWN, ENGINEER AND THEIR CONSULTANTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR		
C TH IN SI O PI TI	OMPLETENESS OF ANY SUCH INFORMATION OR DATA. HE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL IFORMATION AND DATA DESCRIBED ABOVE, FOR LOCATING ALL SUCH UNDERGROUND FACILITIES HOWN OR INDICATED IN THE CONTRACT DOCUMENTS, FOR COORDINATION OF THE WORK WITH THE WNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION, FOR THE SAFETY AND ROTECTION THEREOF, AND FOR REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK, HE COST OF ALL WHICH WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE.		
T A U II	THE CONTRACTOR SHALL BE LIABLE FOR ALL DAMAGES AND CLAIMS RECEIVED OR SUSTAINED BY INY PERSONS, CORPORATIONS OR PROPERTY IN CONSEQUENCE OF THE DAMAGE TO EXISTING ITILITIES, ROADWAYS, THEIR APPURTENANCES, OR OTHER FACILITIES CAUSED DIRECTLY OR NDIRECTLY BY THE OPERATIONS OF THE CONTRACTOR.	ŧ	
	CONTRACT LIMIT LINE: SHALL BE EASEMENT AND RIGHT OF WAY LINES BETWEEN START AND END CONSTRUCTION STATIONS SHOWN ON THE DRAWINGS.	-4	TYPICAL
	SITE DISTURBANCE: SITE DISTURBANCE SHALL BE KEPT TO A MINIMUM. SITE FEATURES: NEATLY REMOVE, STORE AND PROTECT AS APPLICABLE, AND REINSTALL OR REPLACE AS APPLICABLE. EXISTING SITE FEATURES DISTURDED BY CONSTRUCTION DESCRIPTION FOR	• <u>·</u>	SEE
	REPLACE AS APPLICABLE, EXISTING SITE FEATURES DISTURBED BY CONSTRUCTION, REQUIRED FOR FINISHED CONSTRUCTION.	<u>*</u>	
	NOISE: PROPERLY CONTROL MUFFLERS AND NOISE CONTROL DEVICES. REPLACE DEFECTIVE DEVICES AS NECESSARY AND LOCATE DEWATERING PUMPS AS FAR AS POSSIBLE FROM RESIDENTIAL STRUCTURES, SO AS TO MINIMIZE THE AMOUNT OF NOISE GENERATED AT THE SITE THAT WILL REACH RESIDENTIAL STRUCTURES.		
	REMOVAL OF SURPLUS MATERIALS: EXCEPT AS MAY BE NOTED OTHERWISE, SURPLUS MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS, ORDINANCES, RULES, REGULATIONS AND CODES.		
	 CONTRACTOR SHALL BE: A. SOLELY RESPONSIBLE FOR PROTECTION OF PERSONS AND THE PUBLIC IN GENERAL, THE WORK TO BE PERFORMED UNDER THE CONTRACT, PUBLIC AND PRIVATE PROPERTY, AND EASEMENTS AND RIGHTS-OF-WAY DURING THE COURSE OF THE WORK OF THE CONTRACTOR AND HIS SUBCONTRACTORS; 	ME (R	TAI B
	B. LIABLE FOR ALL DAMAGES AND CLAIMS RECEIVED OR SUSTAINED BY ANY PERSONS, CORPORATIONS OR PROPERTY IN CONSEQUENCE OF DAMAGE TO EXISTING UTILITIES, ROADWAYS, THEIR APPURTENANCES, OR OTHER FACILITIES CAUSED DIRECTLY OR INDIRECTLY BY THE OPERATIONS OF THE CONTRACTOR AND.	1/ PR	4"/ 20P
	C. SOLELY RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES AND FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.	GR	ADI
	IN GENERAL, Lower Case Text Identifies Existing Features/Conditions.		

- BELOW THE WEST VEGETATED SHOULDER OF THE ROAD.
- LAST REVISED 07-09-2012, NO SCALE.

	STEEL POST 6' - 0" LONG	CONTROL RELEASE TIMBER (CR 6' - 0" LONG
SUBMITTED BY:APPROVED BY:Justice Fontaine, P.E. Date: 2023.12.28 14:12:20-05'00'Michael N. Calabrese, P.E. 2024.01.04 22:03:25-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET

12" WOOD BLOCKOUT

GENERAL NOTES:

- 1. W6 x 9 POSTS MAY BE USED IN PLACE OF W6 x 8.5 POSTS.
- 2. W-BEAM GUIDERAIL SHALL USE CLASS A (12 GAUGE), TYPE II W-BEAM RAIL ELEMENTS. 3. SEVEN FOOT LONG STEEL POSTS (W6 X 8.5) ARE TO BE INSTALLED WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 4. ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES

INSTALLATION NOTES:

- 1. INSTALL W-BEAM DELINEATORS ON RAIL THAT IS PARALLEL TO AND NOT GREATER THAN 8' FROM THE EDGE OF THE ROADWAY. A MINIMUM OF THREE W-BEAM DELINEATORS SHALL BE INSTALLED ON ANY LENGTH OF GUIDERAIL.
- 2. THE SPACING OF W-BEAM DELINEATORS IS 50 FEET, INSTALLED AT RAIL SPLICE LOCATIONS. SPACING IS 25 FEET ON RADII LESS THAN 300 FEET.
- 3. NO W-BEAM DELINEATORS ARE PERMITTED WITHIN 75 FEET OF THE IMPACT HEAD OF ANY TANGENTIAL OR FLARED IMPACT ATTENUATION SYSTEM.
- 4. RETROREFLECTIVE SHEETING SHALL BE WHITE EXCEPT ON THE LEFT SIDE OF DIVIDED STREETS, HIGHWAYS, RAMPS, AND ONE WAY ROADS IN THE DIRECTION OF TRAVEL WHERE IT SHALL BE YELLOW.
- 5. FOR HIGHWAY OFF RAMP, INSTALL W-BEAM DOUBLE SIDED DELINEATORS ACCORDING TO INSTALLATION REQUIREMENTS STATED BELOW FOR W-BEAM DOUBLE SIDED DELINEATORS.

W-BEAM RAIL ELEMENT

- SPLICE BOLT

GENERAL NOTES:

- 1. SEE SHEET HW-910_20 FOR MASH W-BEAM HARDWARE AND W-BEAM DELINEATOR DETAILS.
- 2. THREE BLOCKOUTS MAY BE USED FOR ONE POST ONLY. TWO BLOCKOUTS MAY BE USED FOR A SERIES OF POSTS. THE COST OF ADDITIONAL BLOCKOUTS AND LONGER BOLTS SHALL BE INCLUDED IN THE PRICE PER FOOT OF GUIDERAIL. EXTRA BLOCKOUTS AT TRANSITIONS TO BRIDGE PARAPETS SHOULD BE AVOIDED. DO NOT USE ADDITIONAL BLOCKS IF IT CAUSES THE POST TO BE DRIVIEN BEYOND AN EMBANKMENT HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.
- 3. IF BLOCKOUTS DO NOT AVOID POST FROM OBSTRUCTION, ONE POST MAY BE OMITTED IF 50 FEET OF GUIDERAIL EXISTS ON BOTH SIDES OF LOCATION. USE METAL BEAM RAIL SPAN SECTION TYPE II OR III FOR MORE THAN ONE CONSECUTIVE OMITTED POST, SEE SHEET HW-910_24.
- 4. W-BEAM GUIDERAIL MAY BE PLACED 1' OR MORE FROM THE EDGE OF PAVEMENT ONLY ON SLOPES 10:1 OR FLATTER AND WITHOUT CURBING.
- 5. IF THE RAIL IS INSTALLED WITHIN 2' OF THE EDGE OF PAVEMENT, THE RAIL HEIGHT IS MEASURED FROM THE SHOULDER SLOPE EXTENDED TO THE RAIL. IF THE RAIL IS INSTALLED BEYOND 2' FROM THE EDGE OF PAVEMENT, THE RAIL HEIGHT IS MEASURED FROM THE GROUND DIRECTLY BELOW THE RAIL.
- 6. RAIL HEIGHT CONSTRUCTION TOLERANCE IS +/- 1 INCH.
- 7. FOR NEW CONSTRUCTION, PLACE 6 INCH LAYER OF PROCESSED AGGREGATE. FOR CONSTRUCTION PROJECTS WITH GUIDERAIL UPGRADE, THE CONTRACT PLANS MAY CALL OUT PROCESSED AGGREGATE ONLY TO BE PLACE IN LOCATION(S) OF EXISTING VERTICAL PAVEMENT EDGE DROP OFF AS A LEVELING MATERIAL, FILLING IN DEPRESSED AREAS.

LAP W-BEAM RAIL SECTIONS NOTE: EIGHT (8) SPLICE BOLTS PER JOINT

METAL BEAM RAIL (R-B MASH) GUIDERAIL

STANDARD SHEET TITLE:

STANDARD SHEET NO.

PLOTTED DATE: 9/21/2022

PLOTTED DATE: 2/9/2024

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TYPE IV OR TYPE VIII FLUORESCENT ORANGE RETROREFLECTIVE STRIPE

TYPE IV OR TYPE VIII WHITE RETROREFLECTIVE STRIPE -

TYPE IV OR TYPE VIII FLUORESCENT ORANGE RETROREFLECTIVE STRIPE

TYPE IV OR TYPE VIII WHITE RETROREFLECTIVE STRIPE -

(SHE)	SUBMITTED BY:	NAME/DATE/TIME:	
STATE OF CONNECTICUT	Marle Mabule APPROVED BY:	Mark F. Makuch, P.E. 2018.08.17 09:12:43-04'00' NAME/DATE/TIME:	CTDC STANDARD
DEPARIMENT OF TRANSPORTATION	1150	Mark E. Carlina, D.E.	
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42" TRAFFIC CONE

NOTES:

- 1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- 2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- 3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- 4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 5. THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- 6. THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

RURAL AREA

PLACEMENT OF CONSTRUCTION SIGNS TYPICAL LONG TERM INSTALLATION

NOTES:

SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES. REFER TO STANDARD SHEETS:

TR-1208_01 - "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS." TR-1208_02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."

TRAFFIC CONE

NOTES:

- 1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- 2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- 3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- 4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 5. THE ENTIRE AREA OF WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- 6. TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
- 7. THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

URBAN AREA

TRAFFIC DRUM FRONT VIEW

NOTES:

ANDARD SHEET TITLE

- 1. TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- 2. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- 3. THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- 4. THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

ΟΤ **SHEET**

NGINEERING

CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

TR-1220_02

ANDARD SHEET NO.