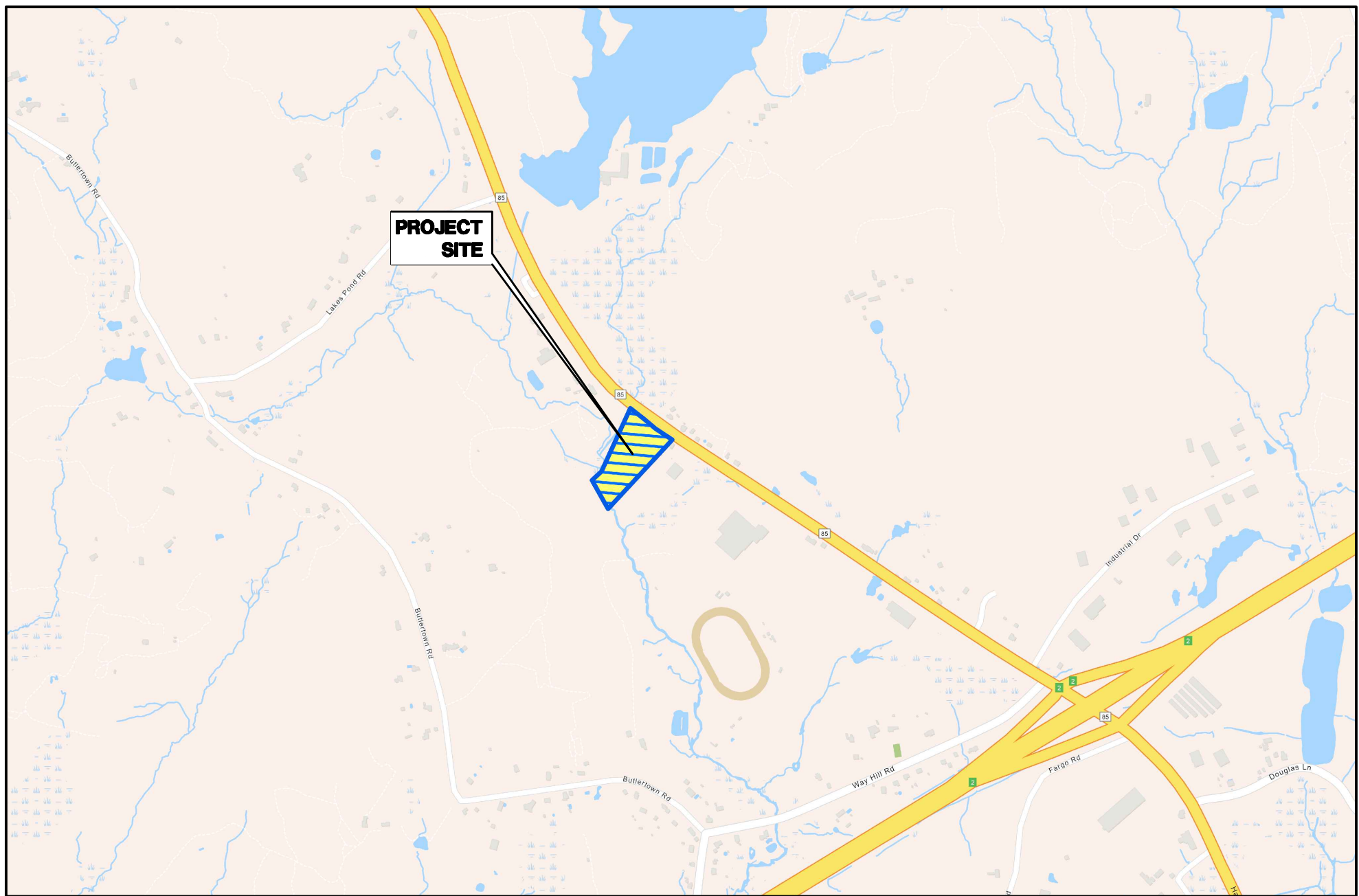


EAST LYME TREE SERVICES

1122 & 1124 HARTFORD TURNPIKE

WATERFORD, CT

LEGEND:	
---	PROPERTY LINE
---	EDGE OF PAVEMENT
--- D ---	DRAINAGE
--- W ---	WATER
--- S ---	SEWER
--- G ---	GAS
--- E --- E --- E ---	ELECTRIC
--- 21 ---	CONTOUR
~~~~~	TREE LINE
-----	GUIDERAIL
●	SIGNS
□	CATCH BASIN
○	IRON PIN, IRON PIPE
MS, CHD, MON □	
○	FIRE HYDRANT
⊙	ELECTRIC MANHOLE
⊙	SEWER MANHOLE
⊙	GAS GATE, WATER GATE
□	LAMP



LOCATION MAP  
SCALE: 1"= 1000'

### INDEX TO DRAWINGS

DRAWING NO.	DESCRIPTION OF DRAWINGS
1	EXISTING CONDITIONS
2	SITE PLAN
3	GRADING PLAN
4	E&S DETAILS

**OWNER/APPLICANT:**  
**EAST LYME TREE SERVICES**  
**67 UPPER PATTAGANSETT RD EAST LYME, CT**

**ADDRESS:**  
**1122 & 1124 HARTFORD TURNPIKE**  
**WATERFORD, CT**

**July 28, 2023**  
**May 2023**

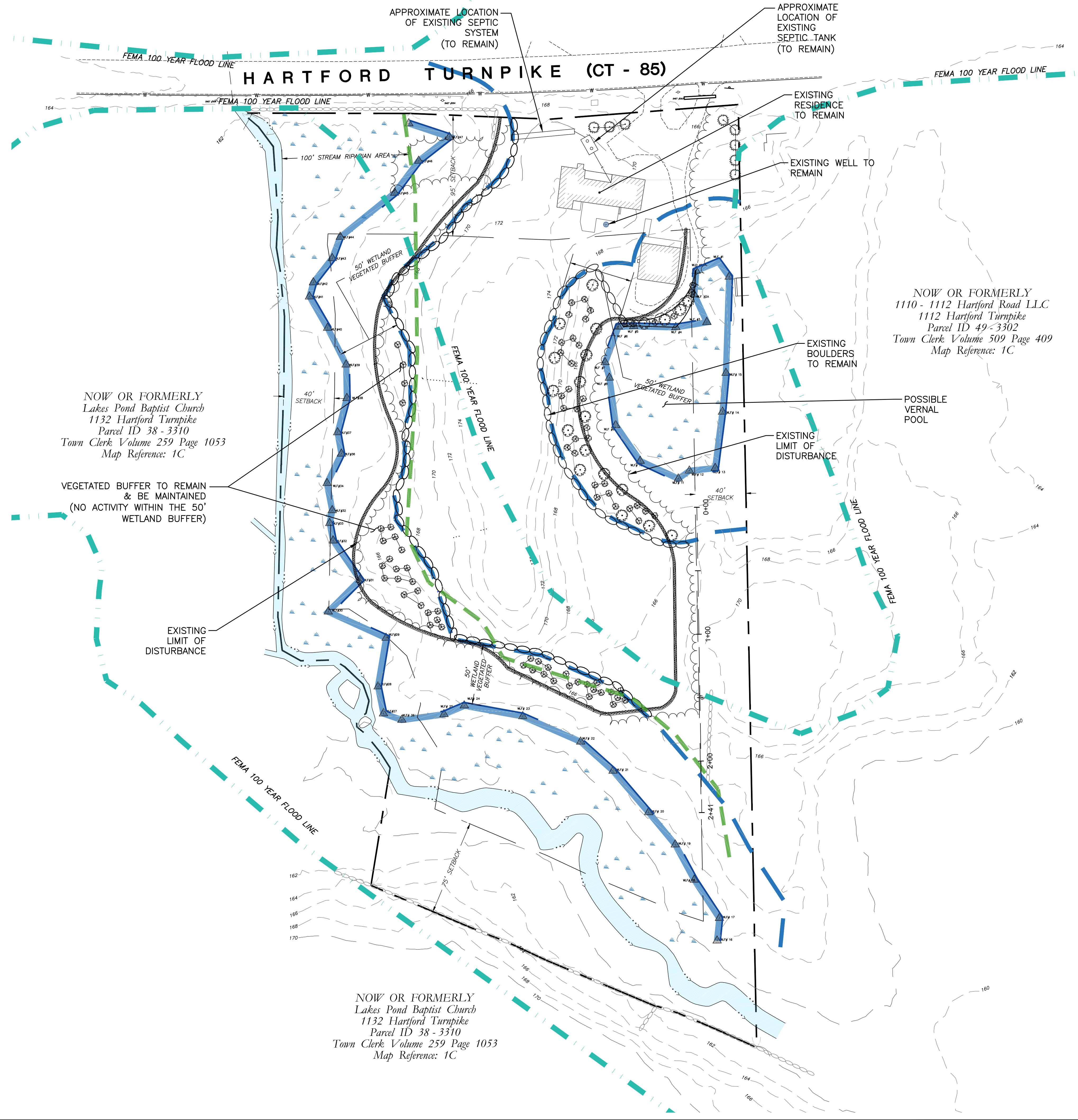
**CLA Engineers, Inc.**  
CIVIL • STRUCTURAL • SURVEYING  
317 Main Street Norwich, CT 06360  
(860) 886-1966 Fax (860) 886-9165

EROSION & SEDIMENT CONTROL PLAN CERTIFIED BY THE VOTE OF THE WATERFORD PLANNING & ZONING COMMISSION

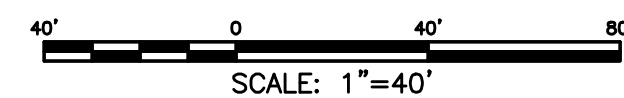
CHAIRMAN OR SECRETARY OF THE COMMISSION _____ DATE _____

I HAVE REVIEWED THE WETLANDS ON THE PROPERTY IN THE FIELD AND HAVE REVIEWED THE WETLANDS AS SHOWN ON THE PLAN AND FIND THAT THEY SUBSTANTIALLY REPRESENT THE WETLANDS AS DELINEATED IN THE FIELD.

ROBERT C. RUSSO _____ DATE _____  
CERTIFIED SOIL SCIENTIST

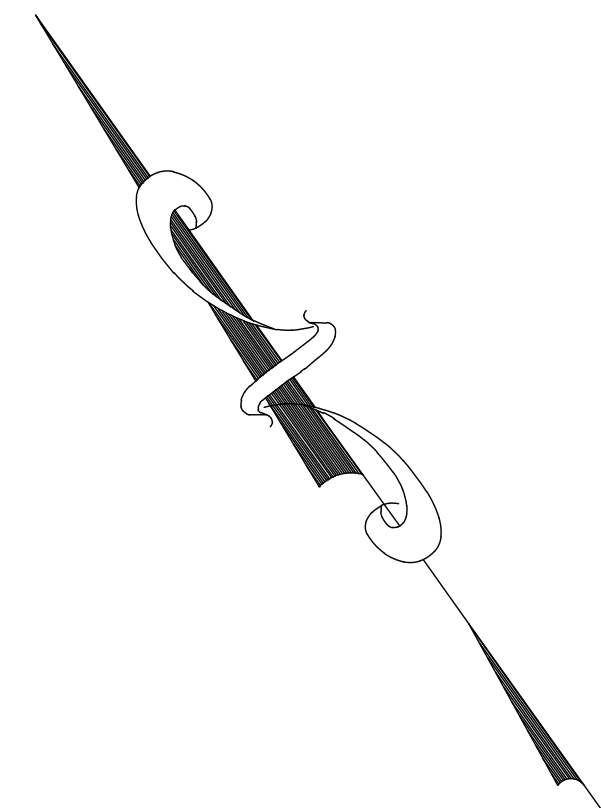


- LEGEND**
- FEMA 100 YEAR FLOOD HAZARD AREA BOUNDARY
  - 100' STREAM/RIPARIAN AREA
  - 50' WETLANDS VEGETATED BUFFER



			<b>CLA Engineers, Inc.</b> CIVIL • STRUCTURAL • SURVEYING	
			317 Main Street Norwich, CT 06360 (860) 886-1986 Fax (860) 886-9165	
1	7/28/23	PRELIMINARY REVIEW COMMENTS	Project No. CLA-7228	
No.	DATE	REVISION	Proj. Engineer E.M.B.	
			Date: 4/19/23	
			Sheet No. <b>1</b>	
			1122 & 1124 HARTFORD TURNPIKE	
			EAST LYME TREE SERVICES	
			EXISTING CONDITIONS	





INSTALL NORTH AMERICAN GREEN S-150 ON BOTTOM & SIDE SLOPES

PROPOSED PERMANENT WATER QUALITY BASIN & TEMPORARY SEDIMENTATION BASIN

20' WIDE INTERMEDIATE RIPRAP LEVEL SPREADER BOTTOM OF RIPRAP ELEV=164.5

NAV D 88 BASE ELEV 160.00

164.15 164.74 165.31 165.71 166.12 166.15 167.00

0+00 1+00 2+00 2+41

DRY STORAGE VOLUME = 5,850 CF

WET STORAGE VOLUME = 5,660 CF

INSTALL 12" TOP SOIL

EROSION CONTROL & SEDIMENTATION NARRATIVE

1. PRIOR TO THE INSTALLATION OF ANY EROSION AND SEDIMENT CONTROL MEASURES, THE OWNER AND CONTRACTOR SHALL MEET WITH THE TOWN OF WATERFORD ENVIRONMENTAL PLANNER.
2. THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE. ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED TO BE NECESSARY BY THE ENVIRONMENTAL PLANNER. ALL WORK SHOWN ON SHEET 5, EROSION & SEDIMENT PLAN SHALL BE COMPLETED.
3. STAKE LIMITS OF CLEARING
4. INSTALL CONSTRUCTION ENTRANCE PER DETAIL
5. THE CONTRACTOR SHALL CONTACT THE ENVIRONMENTAL PLANNER FOR INSPECTION OF THE SEDIMENT AND EROSION CONTROL MEASURES, PRIOR TO SITE DISTURBANCE. CONSTRUCTION SHALL NOT BEGIN UNTIL SUCH TIME AS THE ENVIRONMENTAL PLANNER HAS REVIEWED AND APPROVED THE INSTALLATION OF THE SEDIMENTATION AND EROSION CONTROL MEASURES.
6. CONTRACTOR TO INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES AT LEAST WEEKLY AND AFTER EVERY STORM EVENT AND REPAIR AND MAINTAIN AS
7. CLEARING AND GRUBBING OF THE AREA TO BE GRADED. TOPSOIL TO BE REMOVED AND STOCKPILED IN AN AREA AS SHOWN ON THE PLANS, & SURROUNDED WITH A WOOD CHIP BERM
8. STAKED HAY BALE SILT BARRIERS OR SILT FENCE SHALL BE INSTALLED AROUND ANY TEMPORARY STOCKPILE AREAS.
9. CONSTRUCTION OF TEMPORARY SEDIMENT TRAP PRIOR TO ROUGH GRADING OF SOIL. INSTALL NORTH AMERICAN GREEN S-150 EROSION MATS ON SIDE WALLS, IMMEDIATELY SEED. INSTALL RIPRAP IN BOTTOM OF BASIN AND WHERE SHOWN ON SIDE SLOPE.
10. SEDIMENT TRAP TO BE INSTALLED & MAINTAINED THROUGHOUT EACH PHASE OF SITE CONSTRUCTION, TO CONTROL THE RUNOFF IMPACTS & DIRECT RUNOFF TO THE TEMP. SEDIMENTATION BASIN.
11. INSTALLATION OF PAVEMENT FOR THE ENTIRE SITE CAN BE INSTALLED.
12. TOPSOIL SHALL BE RE-APPLIED TO PROVIDE A MINIMUM DEPTH OF FOUR INCHES.
13. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS RE-ESTABLISHED.
14. SEEDING SHOULD TAKE PLACE BETWEEN APRIL 1 AND JUNE 1 OR AUGUST 15 AND
15. THE FOLLOWING SEEDING MIXTURES SHALL BE PROVIDED ON ALL DISTURBED SOILS

KENTUCKY BLUE GRASS	100 LB's/AC
CREEPING RED FESCUE	100 LB's/AC
PERENNIAL RYEGRASS	25 LB's/AC

16. CLEAN OUT BASIN & OUTLET
17. UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCORDING TO 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
18. REMOVE TEMPORARY E&S UPON VEGETATIVE STABILIZATION.

POLLUTION PREVENTION PLAN

1. **POLLUTION PREVENTION TEAM**  
THE OWNERS WILL BE RESPONSIBLE FOR CARRYING OUT THE PROVISIONS OF THIS PLAN.  
  
PARKING AREAS AND OTHER IMPERVIOUS SURFACES SHALL BE SWEEPED CLEAN OF SAND AND LITTER AND ANY OTHER POLLUTANTS AT LEAST TWICE A YEAR.  
A. BETWEEN NOVEMBER 15 AND DECEMBER 15 (AFTER LEAF FALL)  
B. DURING APRIL (AFTER SNOW MELT) NO WASHING VEHICLES OR EQUIPMENT IN PARKING AREAS.
2. **MAINTENANCE AND INSPECTION**  
A. MONTHLY INSPECTION OF STORM WATER BASIN AND OUTFALLS.  
B. CLEAN SEDIMENT AND DEBRIS FROM STRUCTURES AND OUTFALLS ONCE A YEAR DURING APRIL.  
C. SUBMIT MAINTENANCE & INSPECTION REPORT TO THE PLANNING DEPARTMENT AND THE DIRECTOR OF PUBLIC WORKS
3. CLEAN SEDIMENT AND DEBRIS FROM BASIN ONCE A YEAR, DURING APRIL
4. **SPILL OR ACCIDENTAL DISCHARGE**  
COMPLY WITH STATE AND FEDERAL REGULATIONS TO CONTAIN AND CLEAN UP ANY SPILL OR DISCHARGE AND DISPOSE OF MATERIALS AT AN APPROVED FACILITY.

CONTACT CONNECTICUT DEEP OIL AND CHEMICAL SPILL RESPONSE DIVISION (860) 424-3338 AND THE WATERFORD FIRST SELECTMAN.

IN THE EVENT A SPILL OCCURS THE FOLLOWING STEPS SHOULD BE PERFORMED AS SOON AS POSSIBLE:

- A. STOP THE SOURCE OF THE SPILL
- B. CONTAIN THE SPILL
- C. COVER SPILL WITH ABSORBENT MATERIAL SUCH AS KITTY LITER, SAWDUST OR OIL ABSORBENT PADS. DO NOT USE STRAW.
- D. DISPOSE OF ABSORBER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.

5. BEST MANAGEMENT PRACTICES FOR FUTURE UPKEEP OF THE SITE WILL INCLUDE NON-CHEMICAL LAWN CARE & MINIMAL USE OF FERTILIZERS, DE-ICING OR WINTER OPERATIONS WITHOUT THE USE OF CALCIUM, AND NO EXTERIOR WASHING OF VEHICLES OR DISCHARGING OF INTERIOR WASH WATER.

SEED MIX FOR STORMWATER BASIN

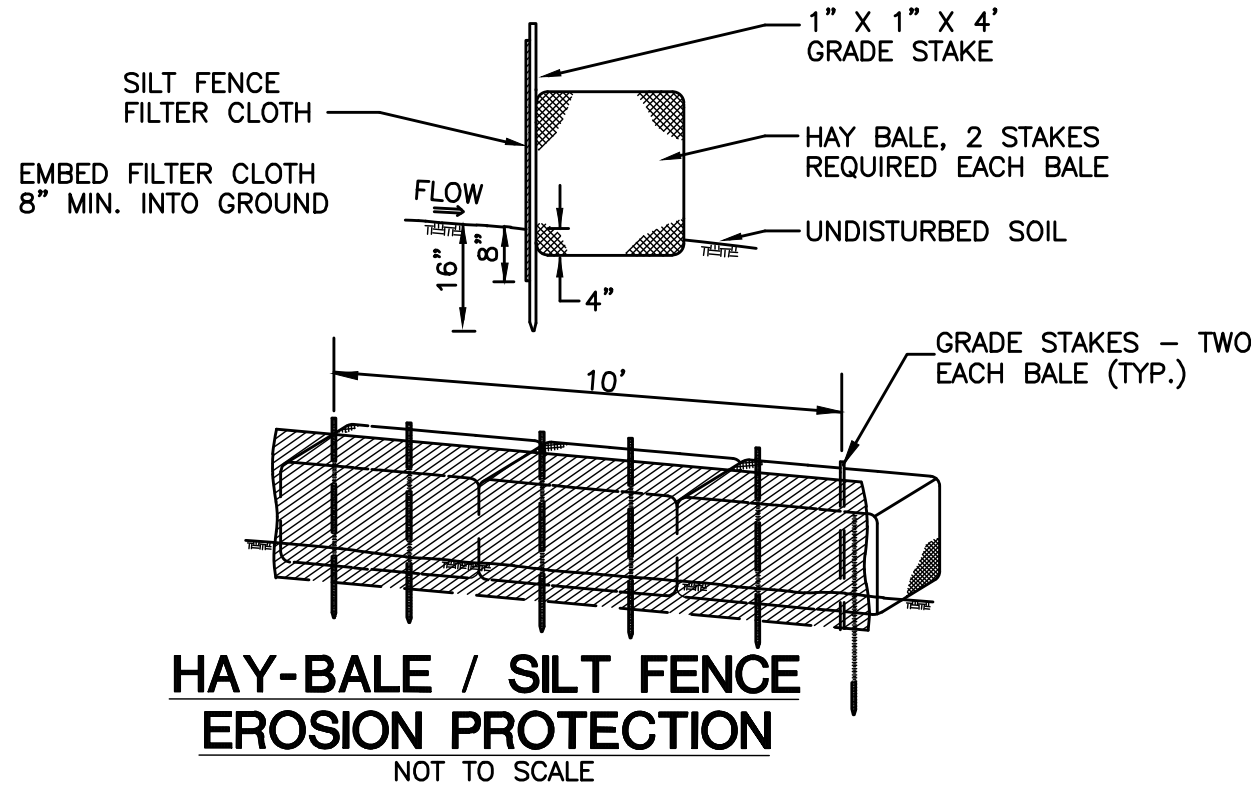
THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES

CONTAINS A SELECTION OF NATIVE GRASSES AND WILDFLOWERS DESIGNED TO COLONIZE RECENTLY DISTURBED SITES WHERE QUICK GROWTH OF VEGETATION IS DESIRED TO STABILIZE THE SOIL SURFACE. IT IS AN EXCELLENT SEED MIX FOR ECOLOGICALLY APPROPRIATE RESTORATIONS ON MOIST SITES THAT REQUIRE QUICK STABILIZATION AS WELL AS LONG-TERM ESTABLISHMENT OF NATIVE VEGETATION. THIS MIX IS PARTICULARLY APPROPRIATE FOR DETENTION BASIN THAT DO NOT NORMALLY HOLD STANDING WATER. SOME PLANTS IN THIS MIX CAN TOLERATE INFREQUENT INUNDATION, BUT NOT CONSTANT FLOODING.

SEEDING: THE MIX MAY BE APPLIED BY HYDROSEEDING, BY MECHANICAL SPREADER, BY HYDRO-SEEDING OR ON SMALL SITES IT CAN BE SPREAD BY HAND. WHEN APPLYING ON BARE SOIL, RAKE THE SOIL TO CREATE GROOVES, APPLY SEED, THEN LIGHTLY RAKE OVER. IN NEW ENGLAND, THE BEST RESULTS ARE OBTAINED WITH A SPRING OR EARLY FALL SEEDING. SUMMER AND LATE FALL SEEDING WILL BENEFIT WITH A LIGHT MULCHING OF WEED-FREE STRAW TO CONSERVE MOISTURE. LATE FALL AND WINTER DORMANT SEEDING REQUIRE A SLIGHT INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE.

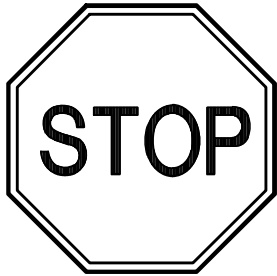
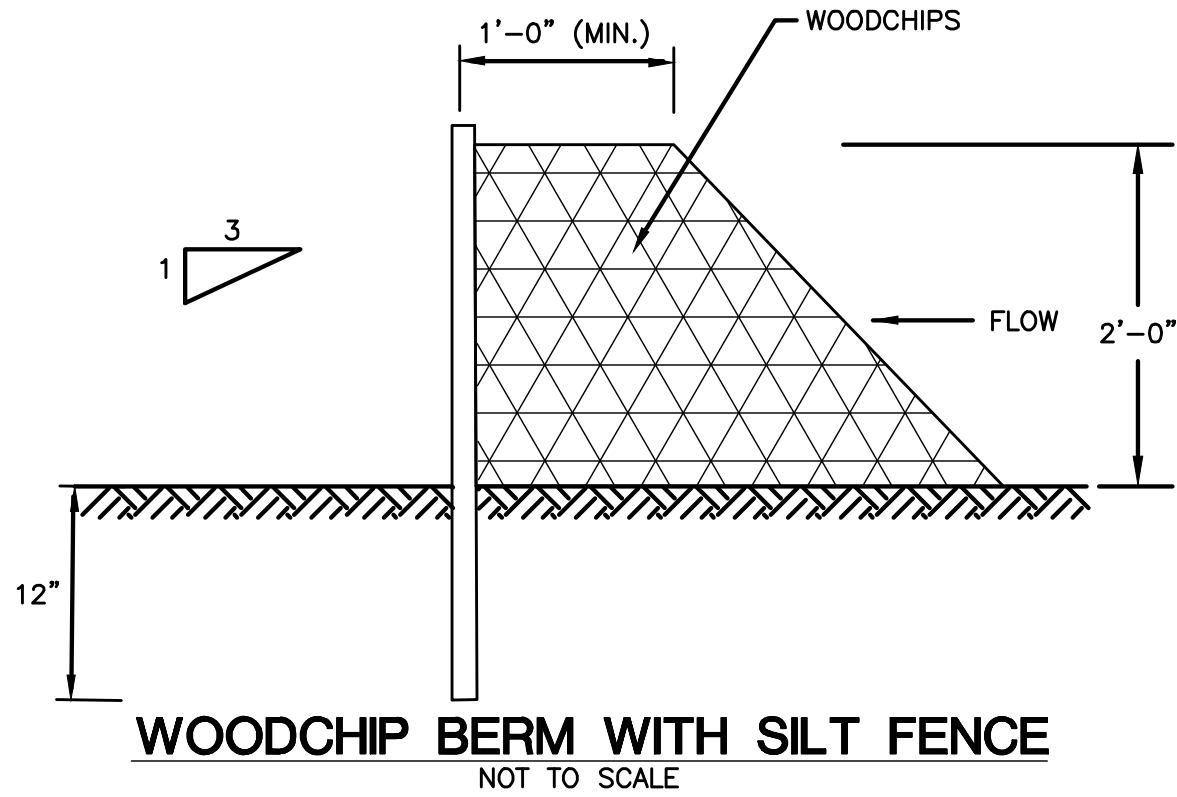
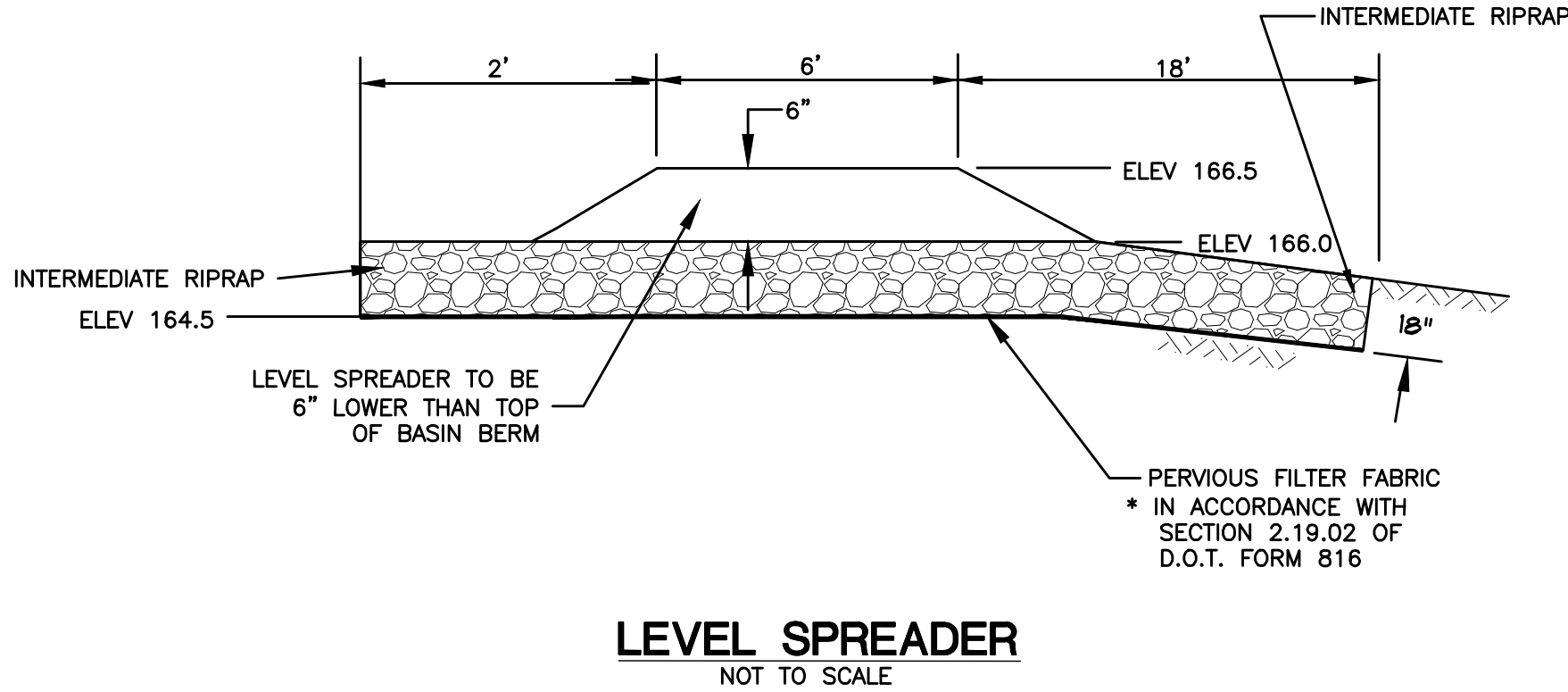
APPLICATION RATE: 35 LBS/ACRE (1250 SQ. FT./LB.)

SPECIES *: SWITCHGRASS (PANICUM VIRGATUM), VIRGINIA WILD RYE (ELYMUS VIRGINICUS), CREEPING RED FESCUE (FESTUCA RUBRA), FOX SEDGE (CAREX VULPINOIDEA), CREEPING BENTGRASS (AGROSTIS STOLONIFERA), SOFT RUSH (JUNCUS EFFUSUS), NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE), GRASS-LEAVED GOLDENROD (EUTHAMIA GRAMINIFOLIA), GREEN BULRUSH (SCIRPUS ATROVIRENS), BONESET (EUPATORIUM PERFOOLIATUM), BLUE VERVAIN (VERBENA HASTATA) UPLAND BENTGRASS (AGROSTIS PERENNANS), BIG BLUESTEM, NIAGRA (ANDROPOGON GERARDII), SENSITIVE FERN (ONOCLEA SENSIBILIS), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), WOOLGRASS (SCIRPUS CYPERINUS).



CONSTRUCTION NOTES:

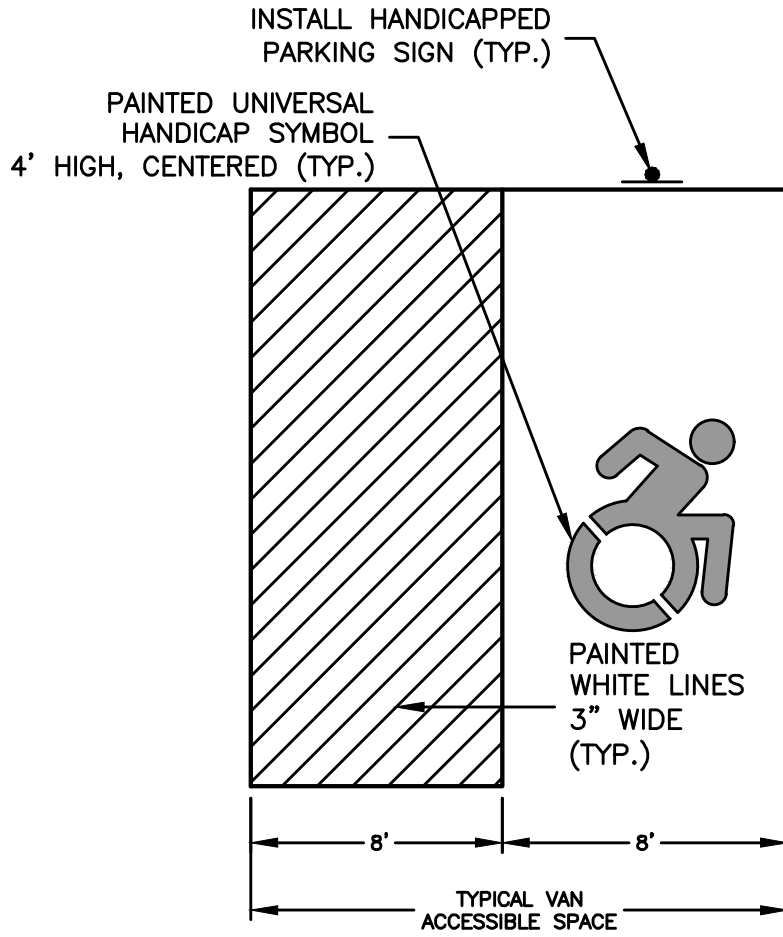
1. SILT FENCE FILTER CLOTH TO BE SECURELY FASTENED TO GRADE STAKE WITH STAPLES, 6" ON CENTER.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN ONE ANOTHER THEY SHALL OVERLAP BY 6" AND BE FOLDED.
3. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.



NOTE:  
SIGNS TO BE INSTALLED IN  
ACCORDANCE WITH STATE OF  
CONNECTICUT D.O.T. STANDARDS

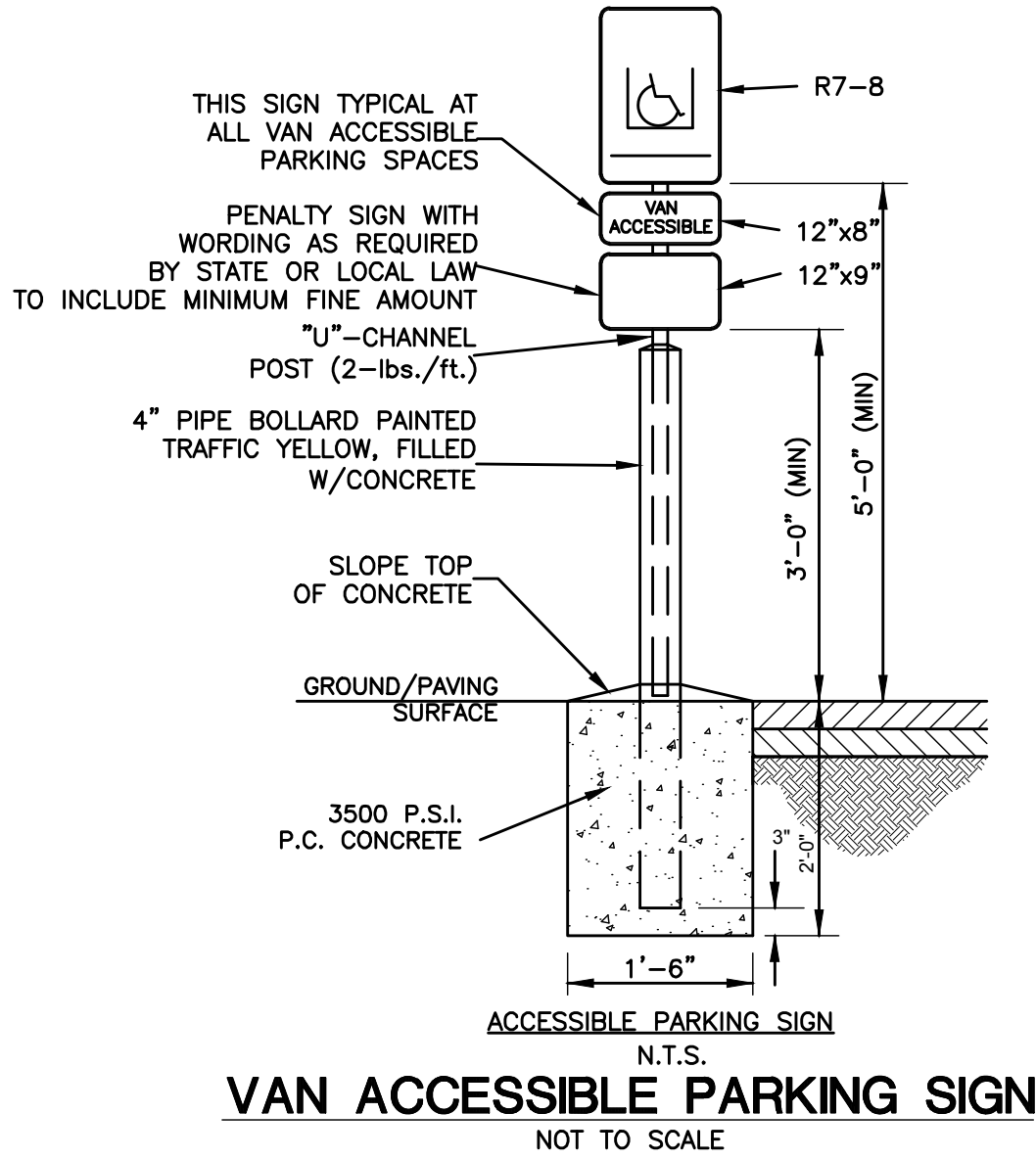
SECURE ALL SIGNS TO 1/2" DIA.  
GALVANIZED STEEL POST WITH (2)  
1/4" DIA. GALVANIZED BOLTS (1  
TOP, 1 BOTTOM) (TYP)

TRAFFIC SIGNAGE  
NOT TO SCALE



NOTES:  
1. ALL ADA ACCESSIBLE SIGNING, DIMENSIONS AND SPACE MARKINGS  
SHALL BE IN ACCORDANCE WITH CGS 14-253az(h) AND THE 2003  
PORTION OF THE STATE BUILDING CODE

TYPICAL HANDICAP VAN PARKING SPACE  
NOT TO SCALE



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			317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165	
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			E&S DETAILS	
			Project No. CLA-7226	
			Proj. Engineer E.M.B.	
			Date: 4/19/23	
			Sheet No. 4	