

I. GENERAL:

- IT IS ANTICIPATED THAT CONSTRUCTION WILL OCCUR IN SPRING 2023 WITH PERMANENT SEEDING ACCOMPLISHED BETWEEN AUG. 15TH AND OCT. 15TH OF 2023.
- IT IS ANTICIPATED THAT THE SITE WILL BE STABILIZED BY OCT. 15, 2023.
- THE CONTRACTOR, TO BE DETERMINED, WILL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL.
- ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED TO MINIMIZE EROSION AND SEDIMENTATION IN ACCORDANCE WITH "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL".
- IF DURING CONSTRUCTION, THE ENFORCEMENT OFFICER OR ENGINEER DEEMS ADDITIONAL EROSION CONTROL NECESSARY, IT SHALL BE ADDED. THE CONTRACTOR SHALL MAKE ADDITIONAL SUPPLIES READILY AVAILABLE.
- ONLY THE AREAS WHICH ARE ACTIVELY BEING DEVELOPED SHOULD BE EXPOSED. ALL OTHER AREAS SHOULD BE HEAVILY MULCHED, HAVE NATURAL VEGETATION PRESERVED OR HAVE A GOOD COVER OF TEMPORARY OR PERMANENT VEGETATION ESTABLISHED.
- DISTURBED AREAS SHALL BE STABILIZED AS QUICKLY AS POSSIBLE.
- ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST REMAIN IN PLACE AND BE MAINTAINED UNTIL PERMANENT STABILIZATION IS ACCOMPLISHED.

II. CONSTRUCTION SEQUENCE:

- NOTIFY "CALL BEFORE YOU DIG" (1-800-922-4455) PRIOR TO CONSTRUCTION.
- CONSTRUCT TEMPORARY CONSTRUCTION PAD.
- INSTALL SILT FENCE AND HAY BALE BARRIER WHERE SHOWN ON THE DRAWINGS AND AS INDICATED IN THE DETAIL BACK SILT FENCE BARRIER, WITH HAY BALES WHERE SHOWN ON THE DRAWINGS AND AS INDICATED IN THE DETAIL.
- ESTABLISH STOCK PILE AREA AS SHOWN ON THE PLAN SURROUNDED BY SILT FENCE.
- INSTALL CATCH BASIN SUMP ON THE INLET SIDE OF THE POND SUPPLY PIPE.
- INSTALL A BYPASS PUMP IN CATCH BASIN SUMP LOCATED AT THE INLET PIPE AND PUMP WATER TO THE OUTLET STRUCTURE OF THE POND AS REQUIRED.
- EFFORTS WILL BE MADE TO EXCAVATE THE POND WITH WATER REMAINING IF THIS IS NOT POSSIBLE THE POND SHALL BE DEWATERED.
- DEWATER POND TO A WATER DEPTH OF 1'-2" MAINTAIN THE DEWATERING PUMP SUCTION INLET TO AVOID PUMPING SILT, ORGANICS AND FINE SOILS. THE PUMP DISCHARGE SHALL BE DIRECTED TO THE DEWATERING BAG.
- ENSURE THAT THE OUTLET WIER FROM THE POND TO THE OUTLET STRUCTURE IS BLOCKED DURING DREDGING EXCAVATE MATERIAL FROM POND AND ALLOW IT TO DRY IN THE TEMPORARY STOCK PILE AREA. IT IS ANTICIPATED THAT 500-800 CY OF MATERIAL WILL BE REMOVED FROM THE POND.
- POND EXCAVATION SHOULD BE FOCUSED IN ONE AREA AND THEN SLOWLY ADVANCED AROUND THE POND TO ALLOW WILDLIFE TO SAFELY RELOCATE TO THE UNDISTURBED AREAS.
- REGRADE AREA SURROUNDING THE POND WITH SUITABLE MATERIAL FROM THE POND DREDGING APPROXIMATELY 100 CY.
- DURING DREDGING OPERATIONS LOCATE THE ROOF LEADER AND PATIO DRAIN DISCHARGE AND INSTALL A ONE WAY VALVE.
- ADDITIONAL MATERIAL WILL ALSO BE MOVED TO THE PERMANENT STOCK PILE AREA FOR FUTURE USE BY THE HOME OWNER. APPROXIMATELY 50-100 CY.
- ALL OTHER EXCESS MATERIAL FROM POND EXCAVATION SHOULD THEN BE MOVED OFF SITE.
- UPON COMPLETION OF THE POND EXCAVATION INSTALL CATCH BASIN SUMP AT THE OUTLET SIDE OF THE INLET PIPE.
- IT IS ANTICIPATED THAT AN AERATOR MAY BE PERIODICALLY REQUIRED FOR THE POND. INSTALL ELECTRICAL SUPPLY FOR FUTURE USE OF THE AERATOR.
- ALLOW ALL SEDIMENT IN THE POND TO COMPLETELY SETTLE BEFORE REMOVING BYPASS PUMP AND WIER BLOCKING.
- INSTALL AQUATIC SHELF PLANTINGS AS DIRECTED BY MR. RICHARD SNARSKI.
- STABILIZE DISTURBED AREAS SURROUNDING THE POND.
- INSTALL POOL, EXCESS EXCAVATED MATERIAL WILL BE MOVED OFFSITE.
- INSTALL PATIO SURROUNDING THE POOL.
- INSTALL POOL SAFETY FENCE.
- STABILIZE AREA SURROUNDING POOL. INSTALLATION.
- CONSTRUCT RETAINING WALL.
- RELOCATE/INSTALL NEW SANITARY SYSTEM PUMP CHAMBER.
- INSTALL PIERS FOR BARN CONSTRUCTION.
- CONSTRUCT BARN.
- STABILIZE AND PLANT ANY DISTURBED AREA SURROUNDING THE BARN CONSTRUCTION.
- INSTALL DOCK.
- MAINTAIN SILT FENCE AND/OR HAY BALE EROSION CONTROL UNTIL ALL DISTURBED AREAS ARE STABILIZED.
- HILL PLANTINGS AND STABILIZATION WILL BE CONDUCTED AS SOON AS FAVORABLE PLANTING CONDITIONS ARE AVAILABLE AND COULD BE COMPLETED PRIOR TO OTHER WORK IF CONDITIONS ARE FAVORABLE.

III. REQUIRED MAINTENANCE:

- HOMEOWNER WILL CLEAN CATCH BASIN SUMPS AS REQUIRED TO HELP WITH SEDIMENT REMOVAL PRIOR TO WATER ENTERING THE POND.
- HOMEOWNER WILL MOW THE ESTABLISHED LAWN AREA SURROUNDING THE POND, COLLECTING AND DISPOSING OF ALL CLIPPINGS IN THE DISPOSAL AREA INDICATED ON THE PLANS.

IV. SEEDING DATES:

- TO ESTABLISH PERMANENT VEGETATION, SEEDING SHOULD BE PERFORMED BETWEEN APRIL 1 THROUGH JUNE 15 AND AUG 15 THROUGH OCTOBER 15. SHOULD GRADING BE COMPLETE DURING ANOTHER PERIOD, TEMPORARY SEEDING SHALL BE PERFORMED IN ACCORDANCE WITH ITEM VI ON THIS SHEET.
- TEMPORARY OR PERMANENT SEEDING SHOULD BE PERFORMED WITHIN 7 DAYS AFTER ESTABLISHING FINAL GRADES.
- WHEN GRADING WORK WITHIN A DISTURBED AREA IS TO BE SUSPENDED FOR A PERIOD OF MORE THAN 1 YEAR, PERMANENT SEEDING SHALL BE PROVIDED IN ACCORDANCE WITH SECTION V ON THIS SHEET AND THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL".
- SHOULD WORK BE SUSPENDED ON A GRADING OPERATION AND SUCH SUSPENSION IS EXPECTED TO LAST FOR 1 TO 12 MONTHS, TEMPORARY SEEDING SHALL BE PROVIDED IN ACCORDANCE WITH ITEM VI ON THIS SHEET AND THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL".

V. PERMANENT SEEDING:

- PERMANENT SEEDING SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 5-3-5 OF THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL".
- SITE PREPARATION:
 - GRADE IN ACCORDANCE WITH LAND GRADING MEASURES AS SET FORTH IN CHAPTER 5-2-5 OF THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL".
 - FOR AREAS TO BE MOVED REMOVE ALL SURFACE STONES 2 INCHES OR LARGER.
 - ON AREAS WHERE WOOD CHIPS OR BARK MULCH WERE PREVIOUSLY APPLIED, EITHER REMOVE THE MULCH OR INCORPORATE IT INTO THE SOIL WITH A NITROGEN FERTILIZER ADDED. (12 LBS NITROGEN PER TON OF WOOD CHIPS OR BARK MULCH)
- SEEDBED PREPARATION:
 - APPLY TOPSOIL, IF NECESSARY, IN ACCORDANCE WITH CHAPTER 5-2-2 OF THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL".
 - APPLY FERTILIZER AND GROUND LIMESTONE ACCORDING TO SOIL TESTS CONDUCTED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY OR OTHER RELIABLE SOURCES.
 - WHERE SOIL TESTING IS NOT FEASIBLE, APPLY FERTILIZER AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 (NITROGEN - PHOSPHORIC ACID - POTASH) OR EQUIVALENT AND LIMESTONE AT 4 TONS PER ACRE OR 200 POUNDS PER 1,000 SQUARE FEET.
 - APPLY LIME AT THE RATE OF 2 TONS PER ACRE.
 - APPLY SEED MIXTURE AS FOLLOWS:

10 PERCENT PERENNIAL RYE GRASS
45 PERCENT KENTUCKY BLUE GRASS
45 PERCENT CREEPING RED FESCUE

RATE OF APPLICATIONS: 5 POUNDS PER 1000 SF

SEED TO A DEPTH OF .25 TO .5 INCHES

- INSPECT SEEDED AREA AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT FOR THE FIRST GROWING SEASON.
- MAINTAIN SEEDED AREA AS SET FORTH IN CHAPTER 5-2-5 AND IN ACCORDANCE WITH THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL".
- IF PERMANENT SEEDING AND STABILIZATION DOES NOT OCCUR PRIOR TO OCT 15, TEMPORARY VEGETATIVE COVER SHALL BE PROVIDED ON ALL DISTURBED AREAS IN ACCORDANCE WITH CHAPTER 5-3-2 OF THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL".

VI. TEMPORARY VEGETATIVE COVER:

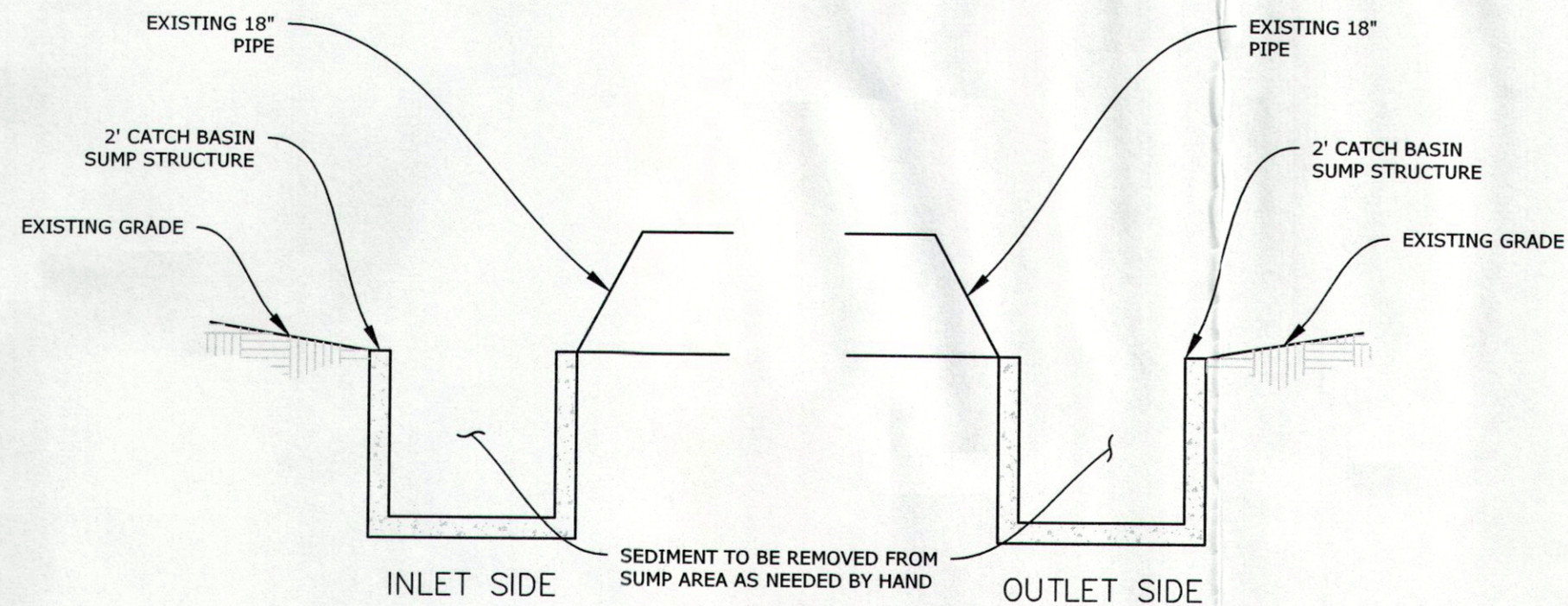
- Temporary seeding shall be performed in accordance with Chapter 5-3-2 of the "2002 Connecticut Guidelines for Soil Erosion and Sediment Control".
- Site Preparation:
 - Install necessary erosion control measures in accordance with approved plan.
 - Grade in accordance with Land Grading Measures as set forth in Chapter 5-2-5 of the "2002 Connecticut Guidelines for Soil Erosion and Sediment Control".
- Seed Preparation:
 - Loosen the soil to a depth of 3-4 inches with a slightly roughened surface.
 - Apply fertilizer and ground limestone according to soil tests conducted by the University of Connecticut Soil Testing Laboratory or other reliable sources.
 - Where soil testing is not feasible, apply fertilizer at the rate of 300 pounds per acre or 7.5 pounds per 1,000 square feet using 10-10-10 (nitrogen - phosphoric acid - potash) or equivalent and limestone at 4 tons per acre or 200 pounds per 1,000 square feet.
 - Apply lime at the rate of 2 tons per acre.
 - Apply seed at a minimum rate for the selected seed identified in Figure below. Increase seeding rate by 10 percent when hydroseeding.

Temporary Seeding Rates

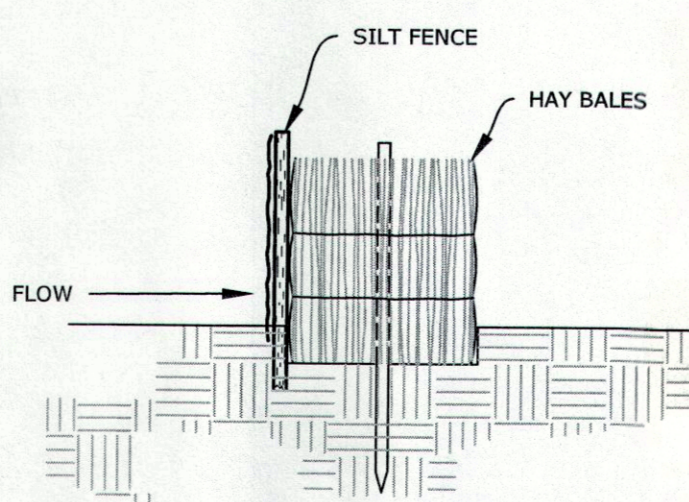
SPECIES (4)	SEEDING RATES (POUNDS)		DATE (1)	DEPTH (2)
	PER ACRE	PER 1,000 SF		
Annual ryegrass	40	1.0	3/1 - 6/15 8/1 - 10/15	0.5
Perennial ryegrass	40	1.0	3/15 - 7/1 8/1 - 10/15	0.5
Winter rye	120	3.0	4/15 - 7/1 8/15 - 10/15	1.0
Oats	86	2.0	3/1 - 6/15 8/1 - 9/15	1.0
Winter wheat	120	3.0	4/15 - 7/1 8/1 - 10/15	1.0
Millet	20	0.5	5/15 - 7/15 5/15 - 8/1	1.0
Sudangrass	30	0.7	5/15 - 8/15	1.0
Buckwheat	15	0.4	4/1 - 9/15	1.0
Weeping lovegrass	5	0.2	6/1 - 7/1	0.25
DOT All Purpose Mix (3)	150	3.4	3/15 - 6/17 8/15 - 10/15	.5

- May be planted throughout summer if soil moisture is adequate or can be irrigated. Fall seeding may be extended 15 days in the coastal towns.
- Seed at twice the indicated depth for sandy soils.
- See Permanent Seeding Figure p5-3 of the "2002 Connecticut Guidelines for Soil Erosion and Sediment Control".
- Listed species may be used in combination to obtain a broader time spectrum. If used in combinations, reduce each species planting rate by 20 percent of that listed.

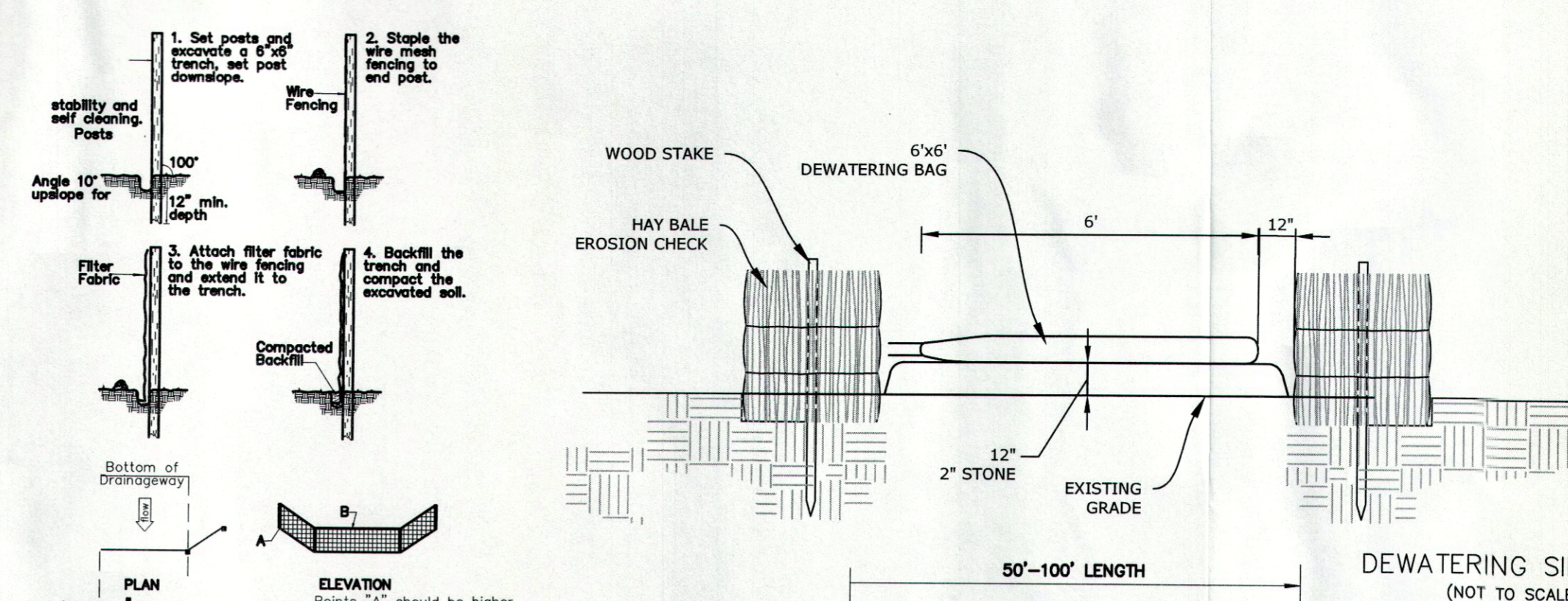
- Temporary seedings made during optimum seeding dates shall be mulched according to the "Mulch for Seed" measures as set forth in Chapter 5-4-5 of the "2002 Connecticut Guidelines for Soil Erosion and Sediment Control".
 - Hay, Straw, Cellulose Fiber, Tackifiers and Nettings are all acceptable types of mulches.
- Inspect seeded area at least once a week and within 24 hours of the end of a storm with a rainfall amount of .5 inches or greater for seed and mulch movement and rill erosion.
- Continue inspections until the grasses are firmly established.



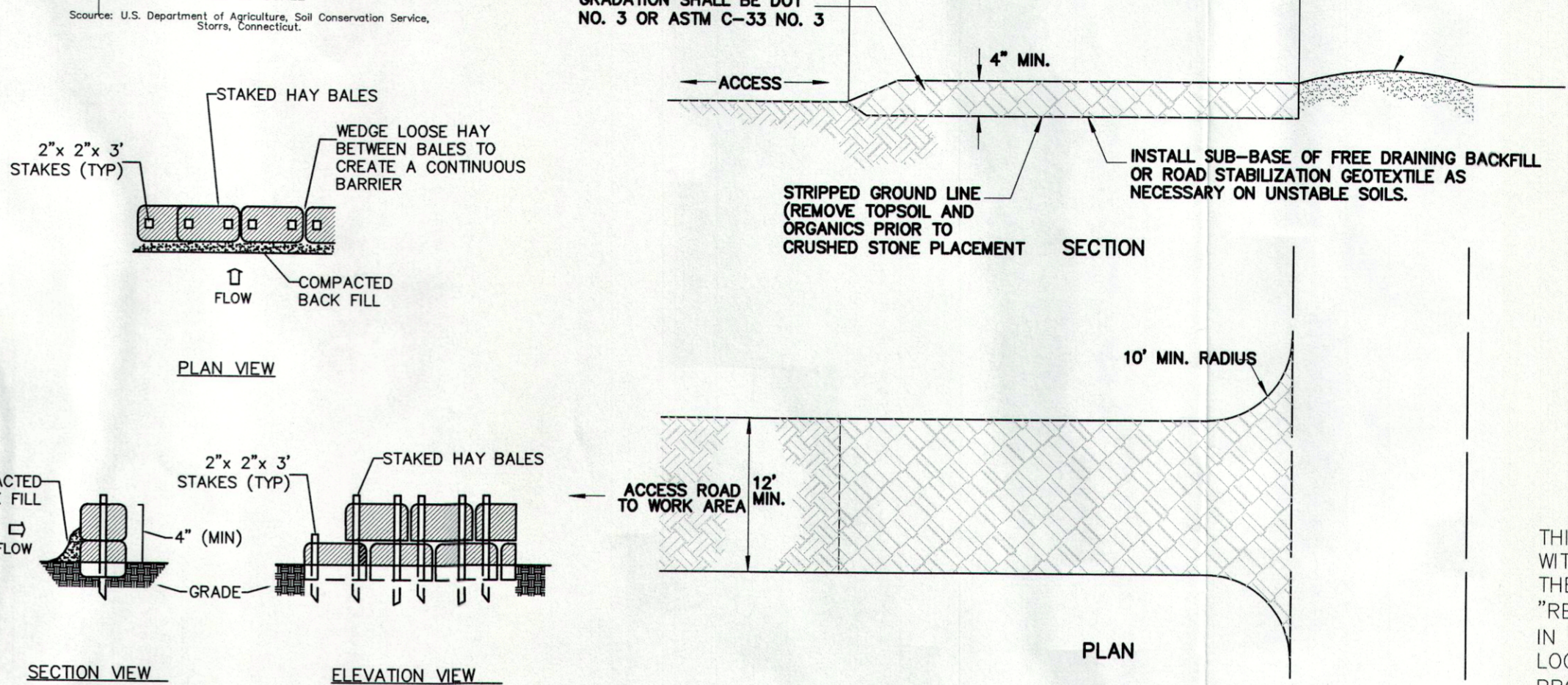
CATCH BASIN SUMP



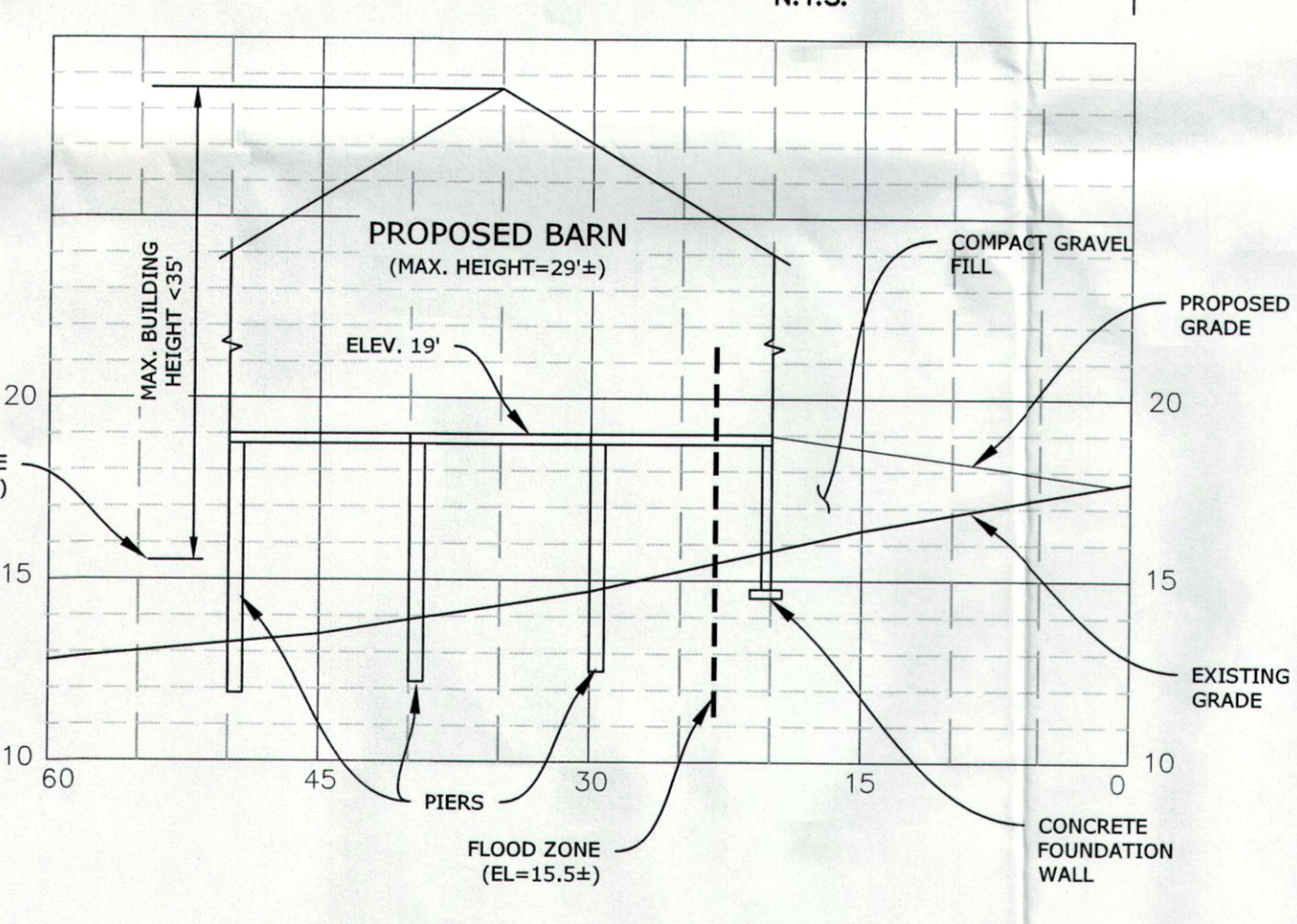
HAY BALE AND SILT FENCE DETAIL



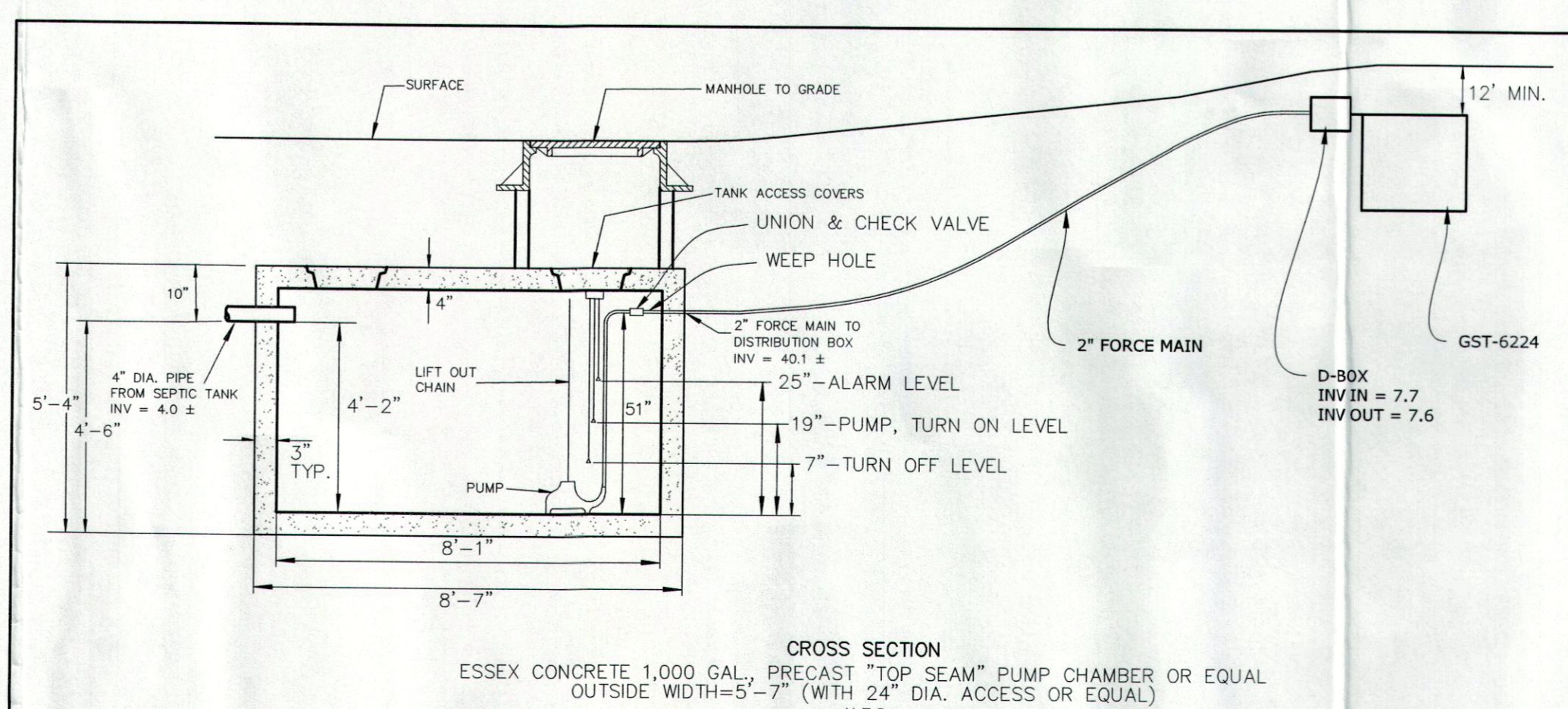
STRAW BALE BARRIER DETAIL



CONSTRUCTION ENTRANCE N.T.S.



SECTION A-A PROPOSED BARN X-SECTION



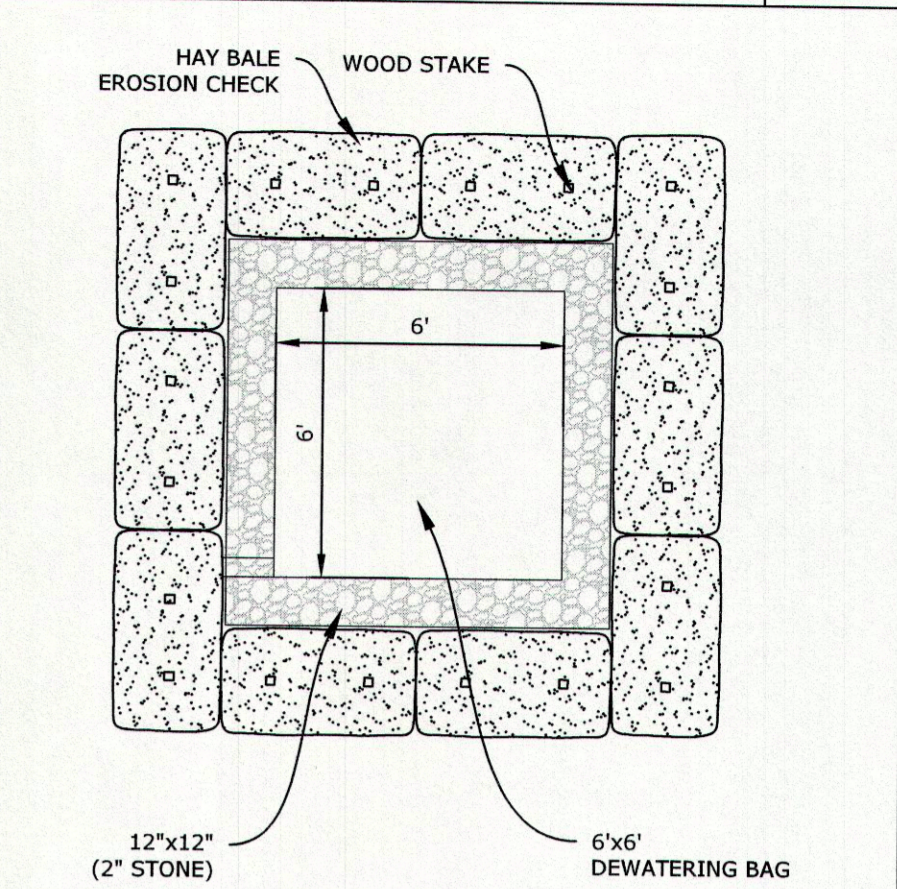
CROSS SECTION

ESSEX CONCRETE 1,000 GAL. PRECAST "TOP SEAM" PUMP CHAMBER OR EQUAL OUTSIDE WIDTH=5'-7" (WITH 24" DIA. ACCESS OR EQUAL) N.T.S.

GALLONS/CYCLE=321 GALLONS
STORAGE ABOVE ALARM=516 GALLONS

THE PUMP SYSTEM SHALL BE SIMPLE WITH A SIMPLE CONTROL PANEL. THE PUMP SHALL BE COULDS MP WE0511H, 1/4 HP - 230 V, SINGLE PHASE EFFLUENT PUMP OR EQUAL. SHOULD THE CONTRACTOR HAVE ANY QUESTIONS, PLEASE CONTACT BLAKE EQUIPMENT (860-282-4724 OR 860-420-7938)

DATE	REVISION	CK.
08/08/22	COMMENTS FROM 8-5 SITE WALK	
09/02/22	REVISED PLANS	



HAY BALE EROSION CHECK

THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300b-1 THRU 20-300b-4 INCLUSIVE OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES AND "RECOMMENDED MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT". IT IS AN IMPROVEMENT LOCATION PLAN INTENDED TO DEPICT THE EXISTING AND PROPOSED IMPROVEMENTS PROPERTY/BOUNDARY HAS BEEN DETERMINED BY A DEPENDENT RESURVEY WITH REFERENCE TO THE MAPS LISTED HEREON. THIS SURVEY IS SUBJECT TO SUCH FACTS AS AN INDEPENDENT RESURVEY MAY DISCLOSE.

A.) "DIVISION OF LAND OF CURTISS S. JOHNSON, RIVER ROAD, ESSEX" SCALE: 1"=100', DATED: 7-22-68, PREPARED BY FREDERICK A. RADCLIFFE, CENTERBROOK, CT 06426

B.) "PLAN/PROFILE, PROPOSED ROAD IMPROVEMENTS, NORTH MAIN ST. & RIVER ROAD, ESSEX, CT." SCALE AS SHOWN, DATED: 6-5-96, REVISED TO: 8-5-96, SHEET 1 OF 1, ID #: 7 OF 8, PREPARED BY DOANE ENGINEERING CO., CENTERBROOK, CT 06409

THE SUBJECT PROPERTY CONTAINS 238,506 SF 5.48 AC. HORIZONTAL ACCURACY CONFORMS TO CLASS A-2.

VERTICAL ACCURACY CONFORMS TO CLASS T-2 (NAVB3 DATUM)

SUBJECT PROPERTY IS RECORDED IN TOWN OF ESSEX LAND RECORDS VOL. 342, PG 208

THIS SITE IS LOCATED WITHIN A FLOOD ZONE PER FIRM COMMUNITY PANEL NUMBER 090065 0332 G MAP EFFECTIVE DATE 08-28-2008

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

Robert L. Doane, Jr.
CONN. P.E. & L.S. LIC. NO. 11463

MAP #342 LOT #208
DOANE ENGINEERING
CIVIL ENGINEERING AND LAND SURVEYING
P.O. BOX 113 CENTERBROOK, CONNECTICUT 06409
TEL: (860)767-0138, FAX: (860)767-9104

SITE PLAN
PREPARED FOR
MATTHEW & JEAN WALSTON
20 RIVER ROAD, ESSEX, CONNECTICUT

SCALE: N/A	DATE: 07/25/22	SHEET NO.: 2 OF 2	IDENT. NO.:
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