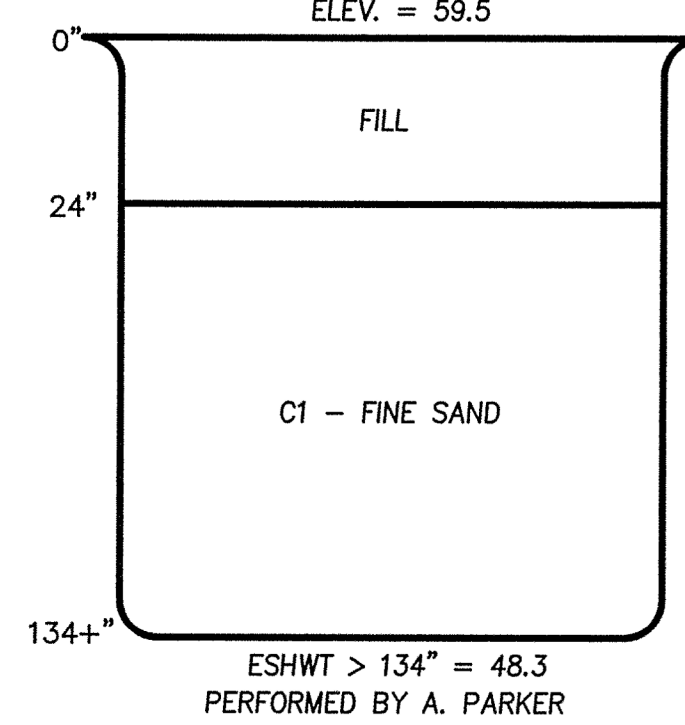
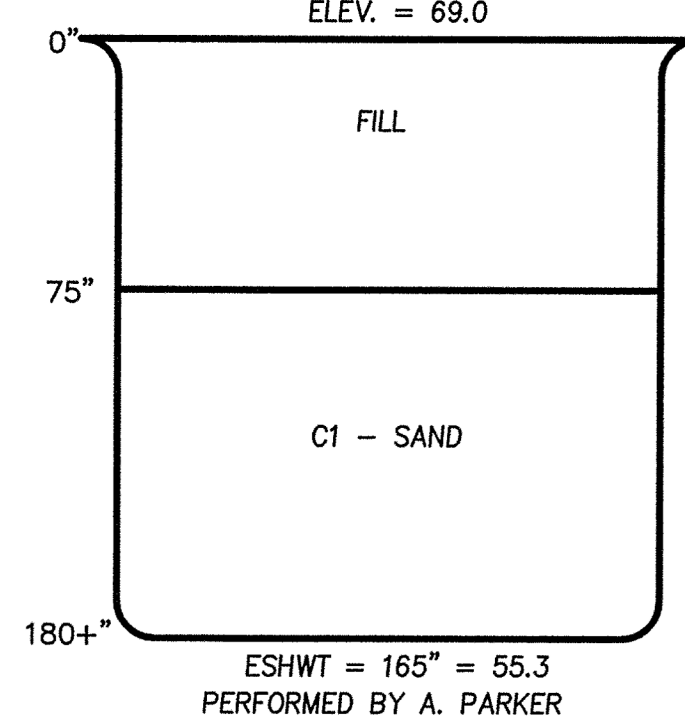


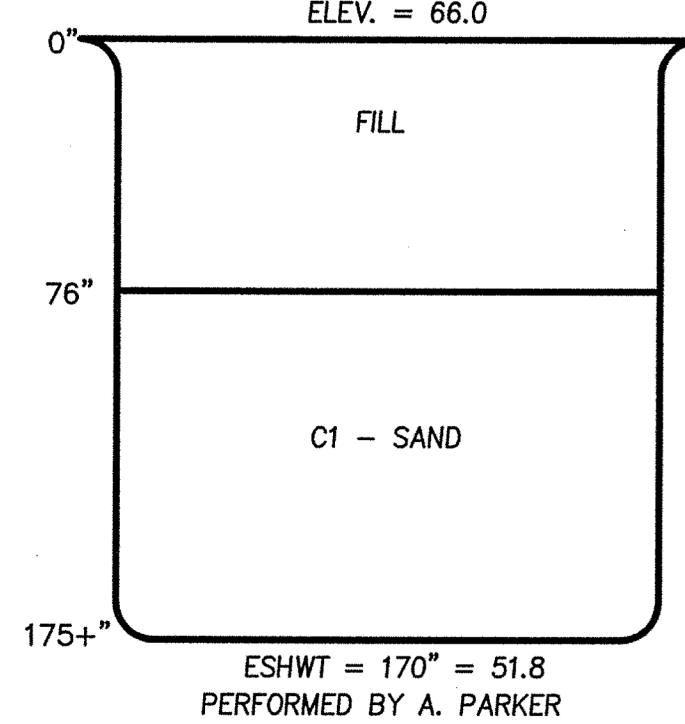
TEST PIT #16-1
ELEV. = 59.5



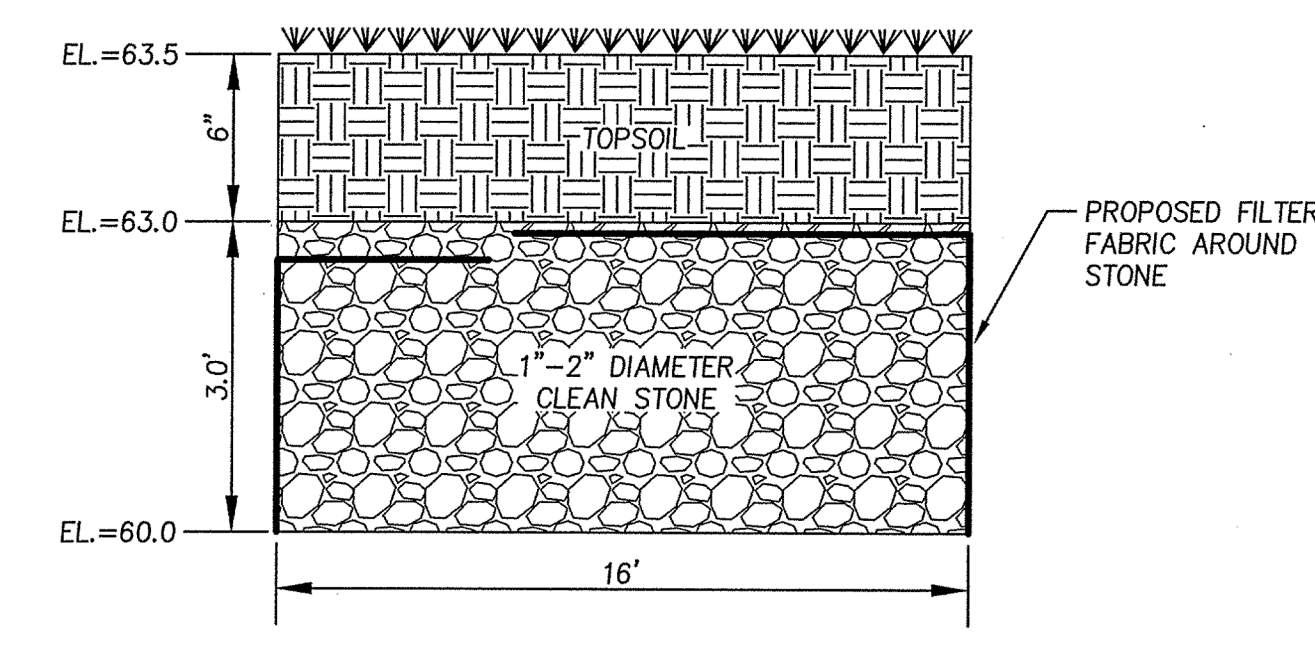
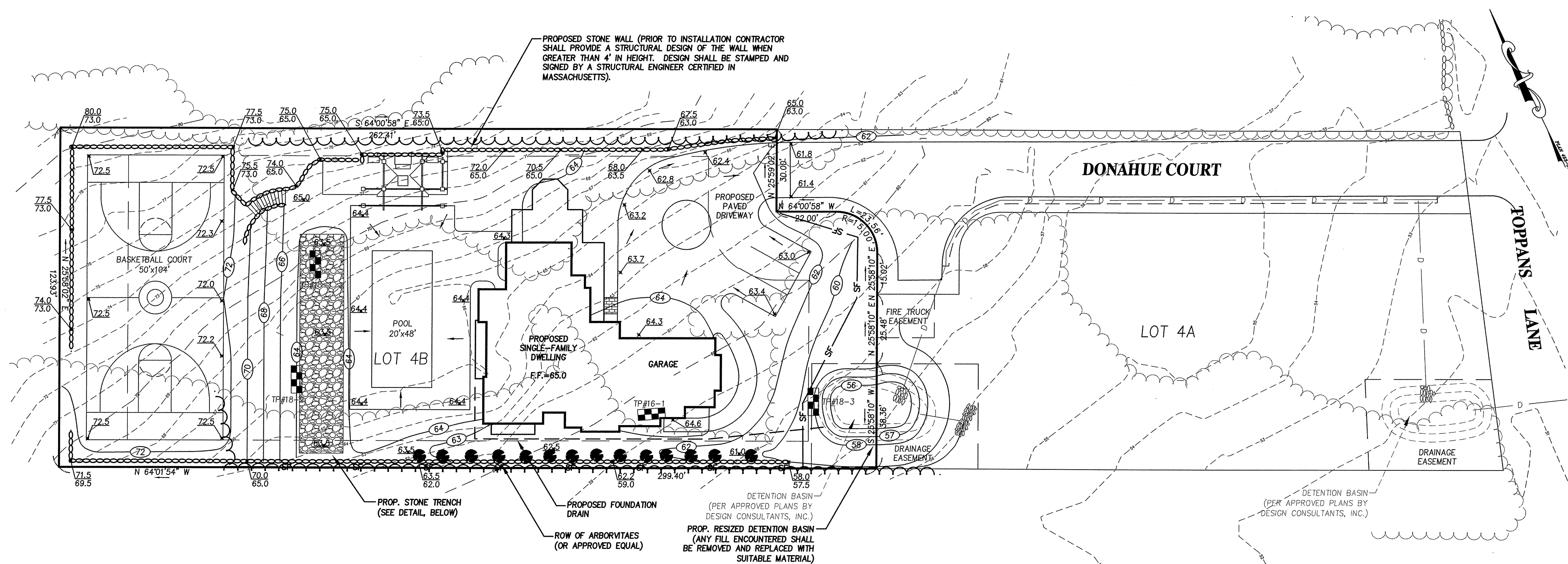
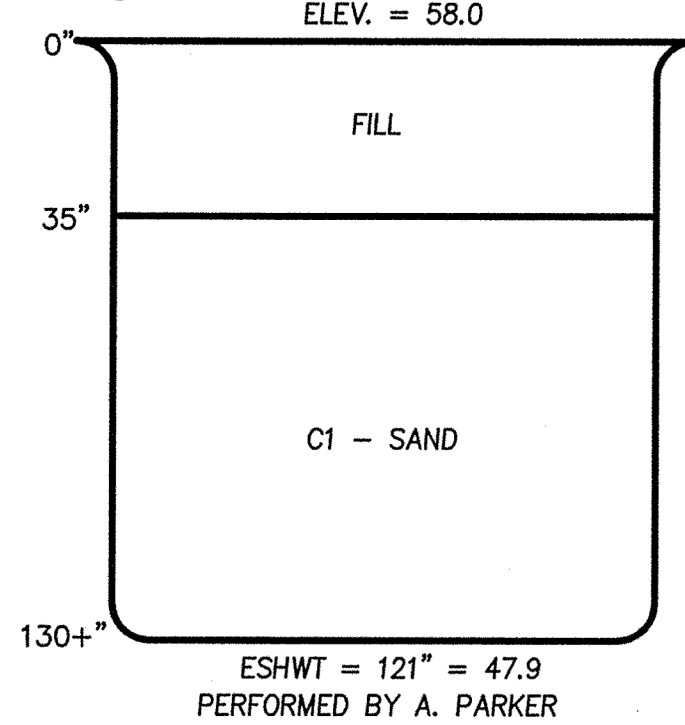
TEST PIT #18-1
ELEV. = 69.0



TEST PIT #18-2
ELEV. = 66.0

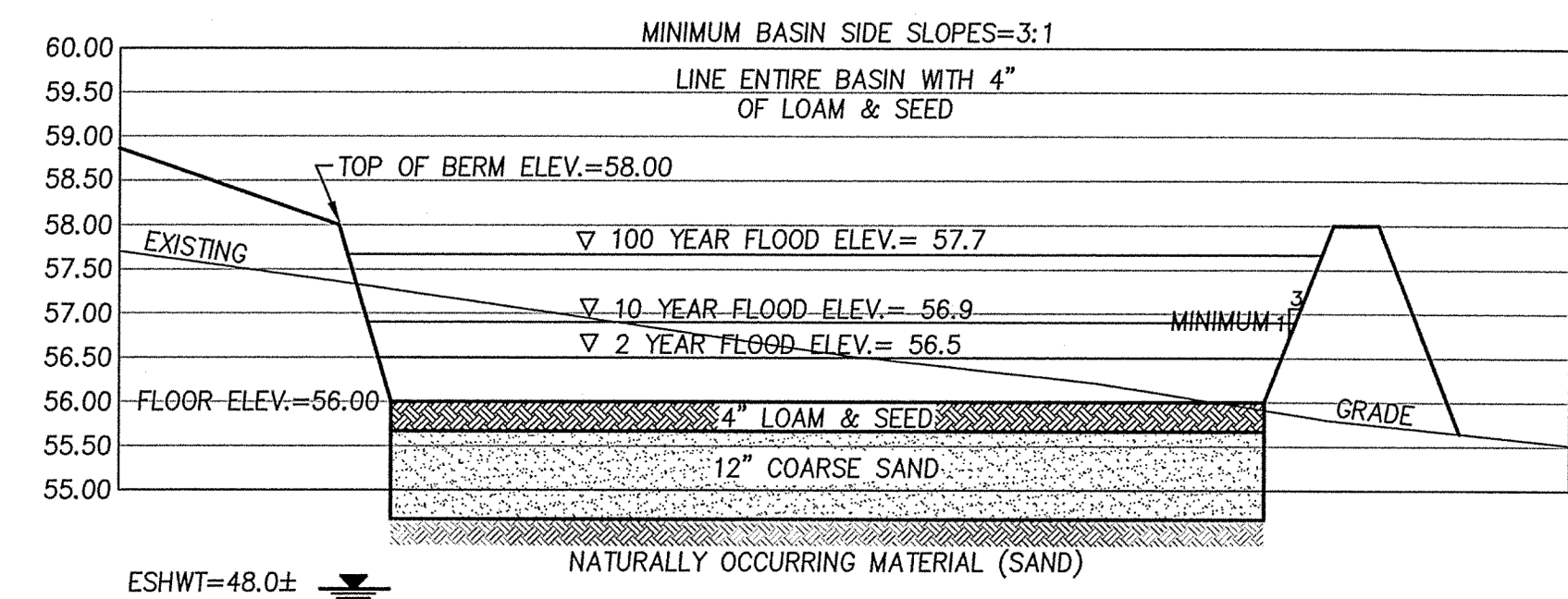


TEST PIT #18-3
ELEV. = 58.0



ESHWT=52.0-55.0±
** ANY FILL ENCOUNTERED DURING CONSTRUCTION OF TRENCH SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL (i.e. SAND)

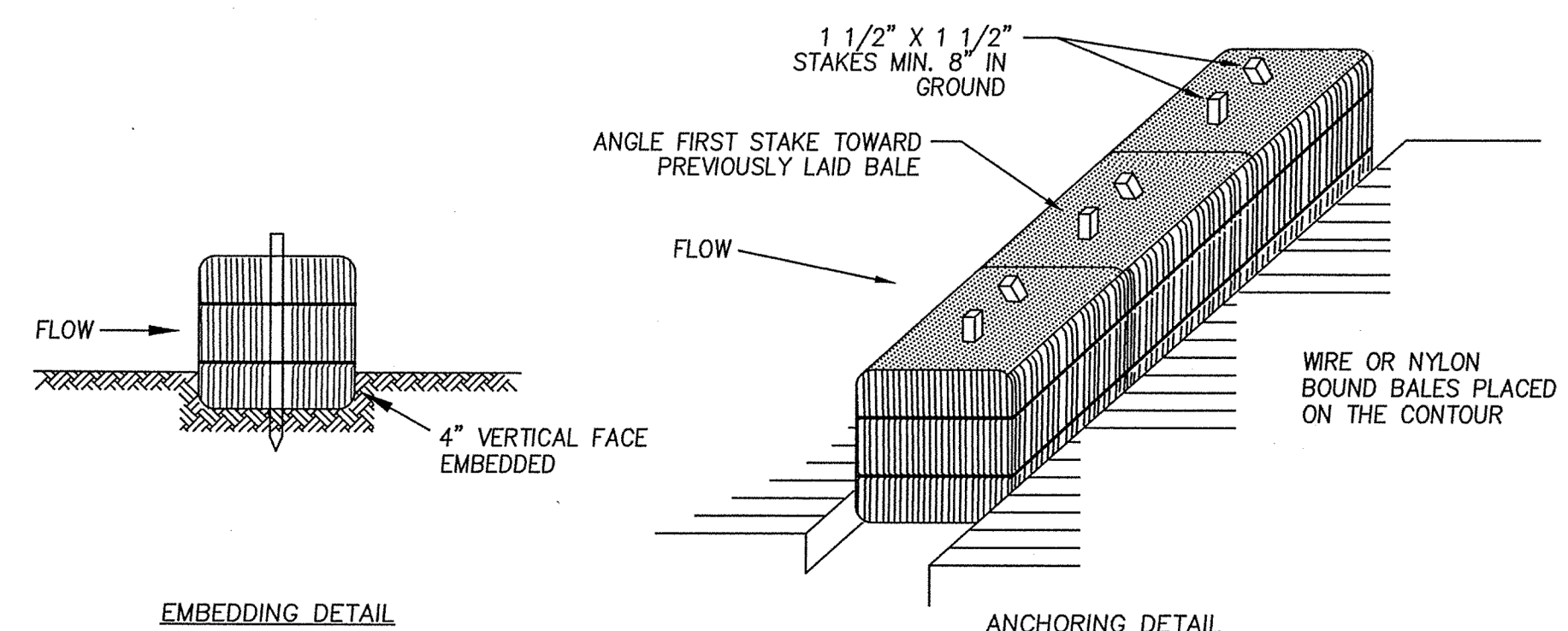
STONE TRENCH DETAIL N.T.S.



INFILTRATION BASIN TYP. CROSS-SECTION
HORIZ. SCALE: N.T.S.
VERT. SCALE: 1"=2'

CONSTRUCTION SPECIFICATIONS

- BERMS SHALL BE CONSTRUCTED OF FILL MATERIAL FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6", OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE BERM SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL AND HAVE AT LEAST 30% PASSING THE #200 SIEVE. MATERIALS USED IN THE OUTER SHELL OF THE BERMS SHALL BE CAPABLE OF SUPPORTING THE VEGETATION SPECIFIED ON THE PLANS.
- FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8-INCH LIFTS AND COMPACTED WITH A MINIMUM REQUIRED DENSITY OF NOT LESS THAN 95% OF MAXIMUM DRY DENSITY.
- PRIOR TO FILL MATERIAL INSTALLATION, ALL TOPSOIL, SUBSOIL, AND UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
- AFTER THE INFILTRATION BASIN IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHALL BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
- EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL OUTSIDE SLOPES OF STORMWATER BASINS. MATTING SHALL BE A WOVEN JUTE MESH MANUFACTURED BY MACCAFERRI COMPANY, OR APPROVED EQUAL.
- THE INFILTRATION BASIN BOTTOM SHALL BE CONSTRUCTED OF 4" LOAM & SEED OVER A 12" LAYER OF COARSE SAND.

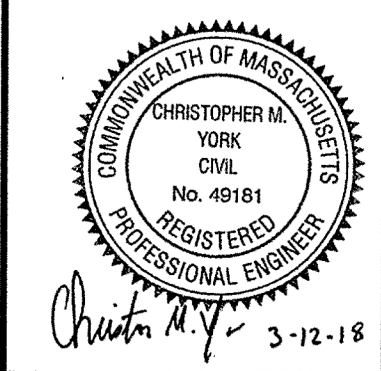
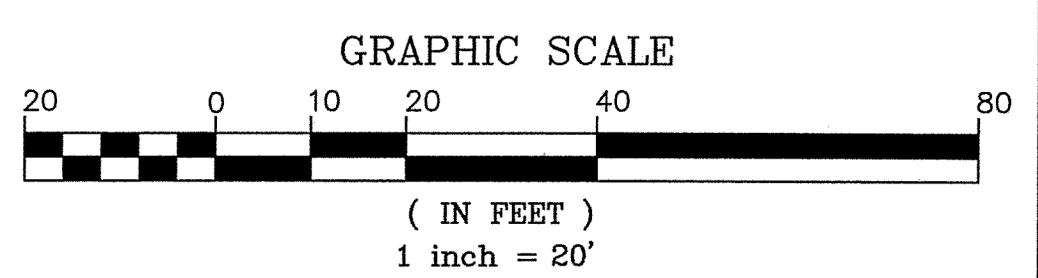
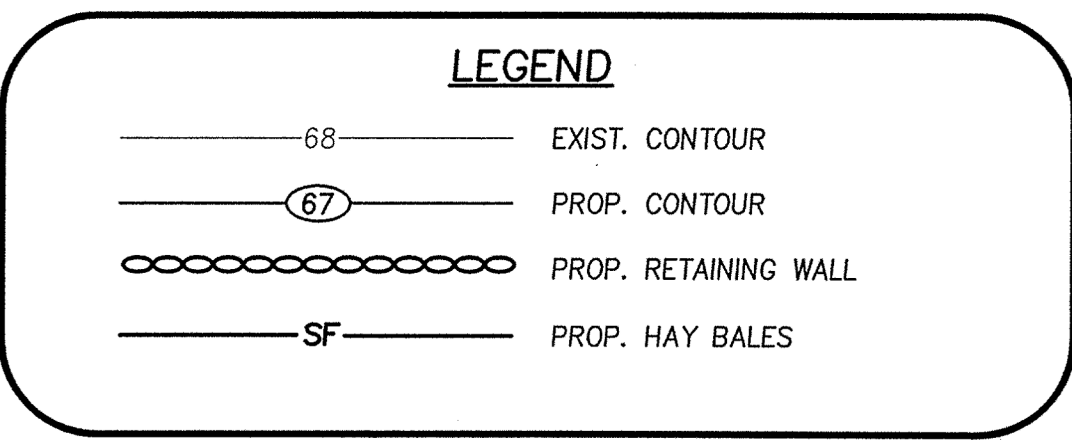


EMBEDDING DETAIL and **ANCHORING DETAIL**

CONSTRUCTION SPECIFICATIONS

- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING ADJACENT BALES.
- BALED HAY AND STRAW SHALL BE TYPICALLY EMBEDDED 4" TO 6" BELOW EXISTING GRADE OR FINISHED GRADE. ADDITIONALLY, PLACE 4" TO 6" OF LOOSE HAY BELOW ALL BALES.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARDS THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- INSPECTIONS SHALL BE FREQUENT AND REPAIR OR 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.

HAY BALE INSTALLATION N.T.S.



PREPARED FOR
STEVE McCONNELL
3 BLUEBERRY LANE
GEORGETOWN, MA 01833

NO.	DATE	DESCRIPTION	BY
1	3/12/18	ADDRESS REVIEWER'S COMMENTS	C.M.Y.

MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=20'
DATE: FEB. 6, 2018
DESIGNER: C.M.Y.
CHECKER: E.W.B.
PROJECT: M173263

PLAN OF LAND
IN
NEWBURYPORT, MA
SHOWING
PROPOSED SINGLE-FAMILY DWELLING
AT
LOT 4B DONAHUE COURT

SITE PLAN
SHEET: 1 OF 1