

4" DIA. SOLID WALL PVC ASTM D3034 SDR-35 EFFLUENT SEWER, S=0.0104 FT/FT MIN. TYPICAL FOR ALL EFFLUENT SEWER PIPE

PRECAST CONCRETE DISTRIBUTION BOX SEE DETAIL SHEET 2 OF 4

WILLIAM E. ROBINSON & STEPHANIE N. OWEN 27-62

N/F CYNTHIA A. DAVID 27-64-1

66 L.F. GEOMATIK GST 6212 LEACHINGS SYSTEM SEE DETAIL SHEET 2 OF 4

N/F ROBERT C. WARD & SUSAN A. MALAN 27-61

N/F RONNIE DEAN & SANDRA C. EUBANK 27-66

N/F RUTH A. SCHUMACHER 27-55

COORDINATE WATER MAIN TAP AND WATER SERVICE WORK WITH THE CONNECTICUT WATER COMPANY SEE GENERAL NOTE 18

N/F WILLIAM E. ROBINSON 27-64

1,250 GALLON PRECAST CONCRETE SEPTIC TANK SEE DETAIL SHEET 2 OF 4

38 L.F. 4" DIA. SOLID WALL PVC SCH 40 ASTM D1785 BUILDING SEWER, S=0.0208 FT/FT MIN.

SANITARY CLEANOUT SEE DETAIL SHEET 2 OF 4

1,000 GALLON UNDERGROUND PROPANE TANK

N/F ALYSON M. DANYLIW 27-64-1

N/F PAUL SHEPARD 27-75

32' x 36' BARN F.F. EL. 95.75

5 BEDROOM RESIDENCE FIRST FLOOR EL. 101.50 BASEMENT FLOOR EL. 92.67

GARAGE

PAVILLION

PATIO

IN-GROUND SWIMMING POOL

ROOF WATER INFILTRATION SYSTEM, TYP. SEE DETAIL SHEET 3 OF 4

4" DIA. SOLID WALL PVC ASTM D3034 SDR-35 SOLVENT WELD FITTINGS AND JOINTS FOUNDATION DRAIN OUTLET

REMOVE 18" DIA. RCP CULVERT AND REPLACE WITH 24" DIA. RCP CULVERT MATCH CULVERT INLET AND OUTLET ELEVATIONS

DRIVEWAY CULVERT SEE DRIVEWAY CULVERT DETAILS SHEET 3 OF 4

4" PVC PROCHECK BACKWATER VALVE AND ACCESS RISER TO GRADE AS MANUFACTURED BY SIOUX CHIEF MANUFACTURING COMPANY, INC., PECULIAR, MISSOURI OR APPROVED EQUAL

FOUNDATION DRAIN OUTLET PROTECTION SEE DETAIL SHEET 3 OF 4

STONE SURFACED DRIVEWAY SEE DETAIL SHEET 3 OF 4

CE TEMPORARY CONSTRUCTION ENTRANCE SEE DETAIL SHEET 4 OF 4

N/F PETER & VICTORIA VERMEER 27-76

DRIVEWAY APRON SEE DETAIL SHEET 3 OF 4

TEMPORARY TOPSOIL STOCKPILE AREA, TYP.

STONE MASONRY WALL, TYP. SEE TYPICAL SECTION SHEET 3 OF 4

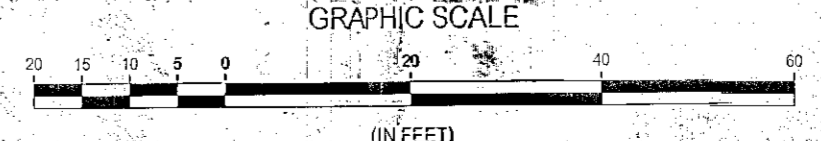
GSF GEOTEXTILE SILT FENCE, TYP. SEE DETAIL SHEET 4 OF 4

LEGEND

- PROPERTY BOUNDARY LINE
- STREET LINE
- EASEMENT LINE
- ELEVATION CONTOUR
- ELEVATION
- PROPOSED ELEVATION CONTOUR
- PROPOSED ELEVATION
- EDGE OF PAVEMENT
- CURBING
- INLAND WETLAND BOUNDARY
- WATERCOURSE
- UPLAND REVIEW AREA LIMIT
- STONE WALL
- VEGETATION LINE
- UTILITY POLE
- HYDRANT
- WATER VALVE
- OVERHEAD WIRE(S)
- COMMUNICATION/ELECTRIC SERVICE
- PERCOLATION TEST
- TEST PIT
- ASSESSORS MAP NO. - LOT NO.

GROVE STREET

BENCHMARK - NAIL IN S.N.E.T. 576 EL. 100.00



GENERAL NOTES:

1. THE PROPERTY BOUNDARY LINE, STREET LINE, EASEMENT LINE, AND INLAND WETLAND BOUNDARY INFORMATION DEPICTED HEREON HAS BEEN REPRODUCED FROM THE FOLLOWING MAP: "SITE PLAN OF LAND OF GEORGE, JR. & CATHERINE HAZUKA 21 GROVE STREET ESSEX, CT, SHEET 1 OF 1, SCALE: 1"=20', DATE: 9-9-09, REVISED TO: 5-20-10, PREPARED BY: DOANE COLLINS ENGINEERING ASSOCIATES, LLC.
2. THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED ON FIELD SURVEYS CONDUCTED BY RICHARD W. GATES, L.S. DURING APRIL AND MAY OF 2010.
3. THE INLAND WETLAND BOUNDARIES DEPICTED HEREON WERE DELINEATED BY R. RICHARD SNARSKI, C.P.S.S., PWS OF NEW ENGLAND ENVIRONMENTAL SERVICES IN 2010 AND FIELD REVIEWED IN MAY OF 2010.
4. NORTH IS BASED ON THE REFERENCE MAP NOTED.
5. ELEVATIONS ARE REFERENCED TO AN ASSUMED VERTICAL DATUM.
6. THE PARCEL IS DEPICTED ON ASSESSORS MAP 27 AS LOT 77.
7. THE PARCEL IS LOCATED WITHIN THE VILLAGE RESIDENCE (VR) ZONING DISTRICT, THE GATEWAY CONSERVATION DISTRICT, AND THE COASTAL MANAGEMENT DISTRICT.
8. PARCEL AREA = 72,495 SF = 1.66 AC. PER THE REFERENCE MAP NOTED.
9. THE PARCEL IS SUBJECT TO AN EASEMENT FOR THE INSTALLATION AND MAINTENANCE OF A WATER SERVICE LINE RECORDED IN THE OFFICE OF THE TOWN OF ESSEX TOWN CLERK AT VOLUME 36, PAGE 558.
10. IN GENERAL, EXISTING CONDITIONS AND FEATURES ARE DEPICTED IN SCREENED GRAPHICS AND TITLECASE LETTERING AND PROPOSED WORK IS DEPICTED IN BOLD GRAPHICS AND UPPERCASE LETTERING.
11. ADHERE TO THE REQUIREMENTS OF THE DRAWINGS, ALL APPLICABLE REGULATIONS AND ORDINANCES OF THE TOWN OF ESSEX, THE REGULATIONS OF ALL APPLICABLE STATE AND FEDERAL REGULATORY AUTHORITIES, AND THE REQUIREMENTS OF ALL APPROVALS AND PERMITS ISSUED FOR THE PROJECT.
12. UNDERGROUND UTILITIES, STRUCTURES AND OTHER FACILITIES DEPICTED ON THE DRAWINGS HAVE BEEN COMPILED FROM RECORD MAPPING AND FIELD LOCATIONS OF ABOVE GROUND FACILITIES AND MARKETS. ALL UNDERGROUND FACILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE ONLY AND ALL FACILITIES MAY NOT BE SHOWN.
13. BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND FOR THE MAINTENANCE AND PROTECTION THEREOF. CONTACT "CALL BEFORE YOU DIG" (1-800-922-4455) PRIOR TO THE START OF WORK TO ESTABLISH AND HAVE MARKED ON THE GROUND THE LOCATION OF ALL UNDERGROUND UTILITIES. NOTIFY THE ENGINEER IN THE EVENT THAT A UTILITY IS LOCATED DURING THE COURSE OF THE WORK THAT IS NOT INDICATED ON OR IS NOT IN ACCORDANCE WITH THE DRAWINGS.
- UTILITY COMPANY CONTACTS:
 - CABLE TELEVISION - COMCAST OF CONNECTICUT, INC. (413) 562-9923
 - COMMUNICATIONS - FRONTIER COMMUNICATIONS OF CONNECTICUT (203) 238-6000
 - COMMUNICATIONS - LIGHTTOWER FIBER NETWORKS, LLC (203) 649-3904
 - ELECTRIC - EVERSOURCE ENERGY (860) 267-3891
 - WATER - CONNECTICUT WATER COMPANY (203) 292-2834
14. PRIOR TO THE START OF WORK, THOROUGHLY REVIEW THE DRAWINGS, THE SITE OF THE WORK AND ALL EXISTING CONDITIONS AND FEATURES. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS AND FEATURES IN THE FIELD.
15. WORK WITHIN THE RIGHT-OF-WAY OF GROVE STREET WILL REQUIRE A PERMIT FROM THE TOWN OF ESSEX PUBLIC WORKS DEPARTMENT.
16. WORK ASSOCIATED WITH THE DISCONNECTION OF BUILDING UTILITY SERVICES AND THE DEMOLITION OF EXISTING BUILDING STRUCTURES WILL REQUIRE A PERMIT FROM THE TOWN OF ESSEX BUILDING DEPARTMENT.
17. ABANDON THE SURFACE SEWAGE DISPOSAL SYSTEM SERVING THE EXISTING RESIDENCE BY REMOVING AND DISPOSING OF ALL WASTEWATER SOLIDS AND EFFLUENT FROM ALL TANKS AND CHAMBERS OFF SITE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS, CRUSHING ALL TANKS AND CHAMBERS IN PLACE AND BACKFILLING THE RESULTANT VOIDS WITH CLEAN EARTH FILL MATERIAL.
18. COORDINATE ABANDONMENT OF THE EXISTING WATER SERVICE AND NEW WATER MAIN TAP AND WATER SERVICE WORK WITH THE CONNECTICUT WATER COMPANY.
19. COORDINATE COMMUNICATION AND POWER UTILITY SERVICES WORK WITH THE RESPECTIVE UTILITY COMPANIES.
20. PROTECT ALL EXISTING CONDITIONS AND FEATURES WHERE NEW CONSTRUCTION IS NOT SHOWN ON THE DRAWINGS.
21. MATERIAL AND EQUIPMENT STORAGE AREA LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
22. VEHICLE AND EQUIPMENT FUELING AND MAINTENANCE OPERATIONS SHALL BE PERFORMED ONLY IN AREAS APPROVED BY THE ENGINEER.
23. IN THE EVENT OF A CONTAMINANT RELEASE, IMMEDIATELY NOTIFY THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION EMERGENCY RESPONSE AND SPILL PREVENTION DIVISION (860-424-3338 OR 860-337-7349) AND THE TOWN OF ESSEX FIRE MARSHALS OFFICE (860-461-4300).
24. THE SUBGRADE OF DISTURBED GROUND SURFACES NOT NOTED TO BE SURFACED OTHERWISE SHALL RECEIVE A DEPTH OF TOPSOIL UPON WHICH TURF SHALL BE ESTABLISHED.
25. IN ACCORDANCE WITH THE CONDITIONS OF THE INLAND WETLANDS AND WATERCOURSES COMMISSION REGULATED ACTIVITY PERMIT APPROVAL, THE PROPOSED BARN STRUCTURE SHALL NOT CONTAIN HABITABLE SPACE.

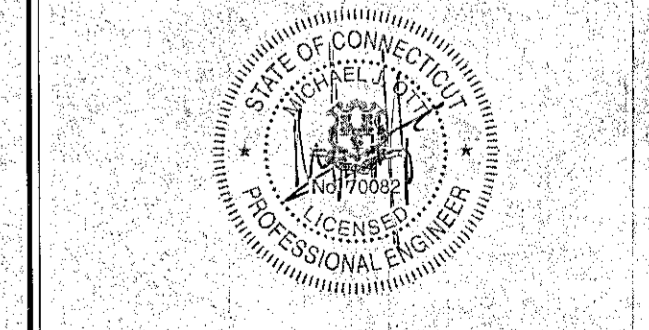
SITE DEVELOPMENT PLANS
LAND OF
LINDA H. BRYNES & JOSEPH BRYNES
21 GROVE STREET
ESSEX, CONNECTICUT

PERMIT DRAWINGS

NO.	DATE	DESCRIPTION
2-15-21		LEACHING FIELD, BARN LOCATION
9-24-19		HEALTH DEPARTMENT REVIEW COMMENTS
8-1-18		IMCC CONDITIONS OF APPROVAL
16-1-18		MISCELLANEOUS

REVISIONS

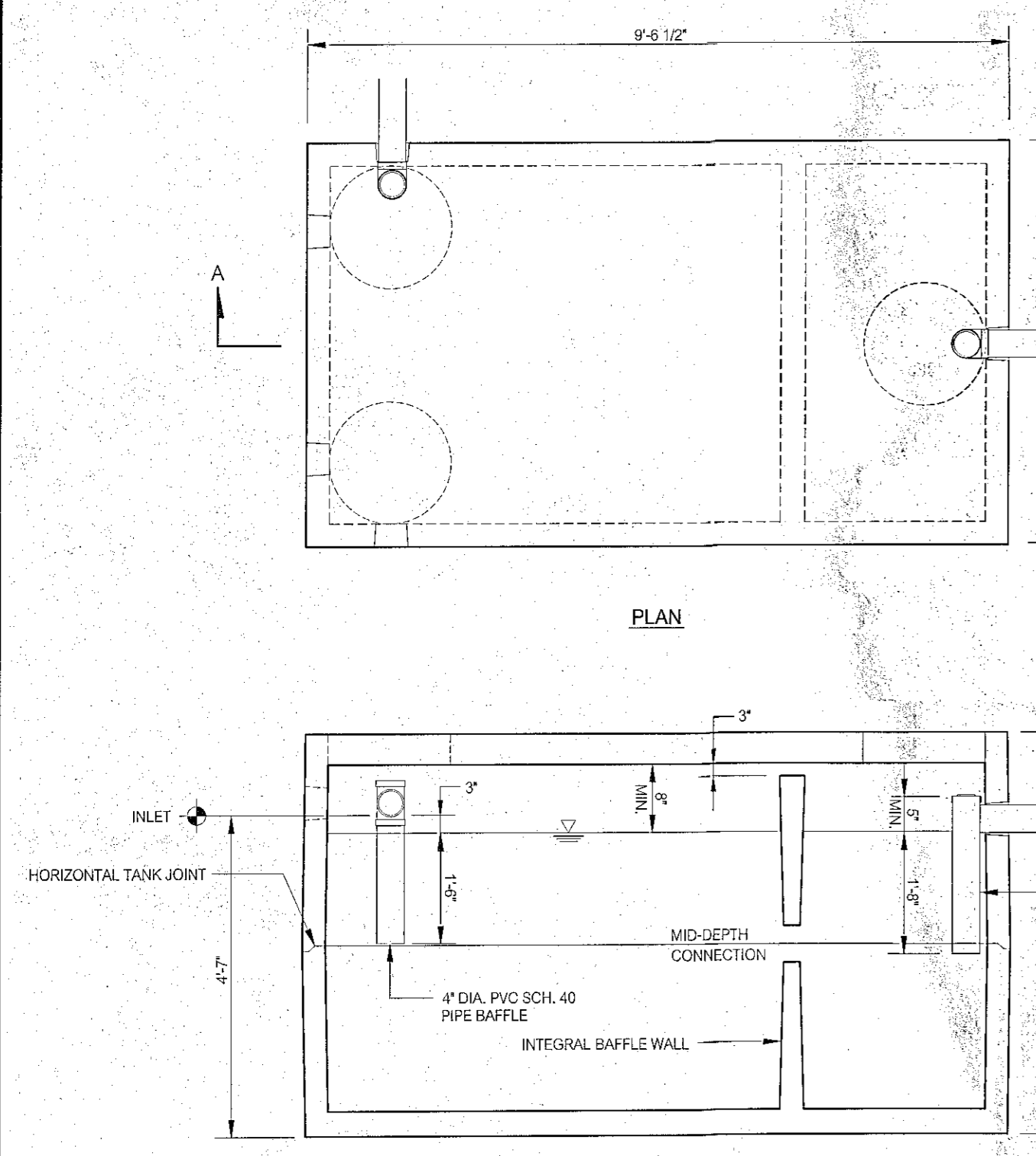
Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722



GENERAL PLAN

DATE	SCALE	SHEET NO.
5-1-18	1"=20'	1 OF 4
DESIGNED: MJO	PROJECT NO.: 18-17	
CHECKED: LJM	FIELD BOOK:	

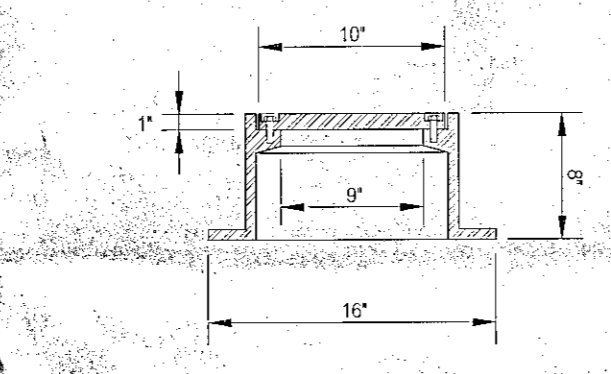
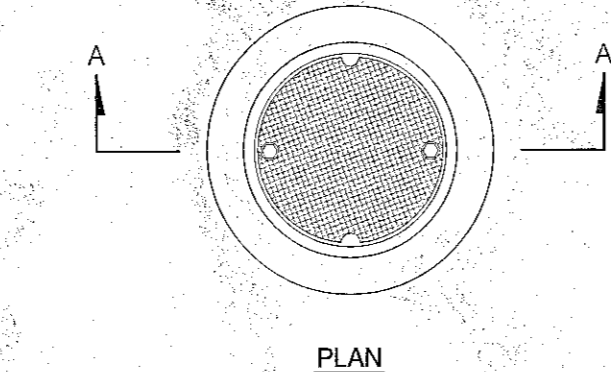
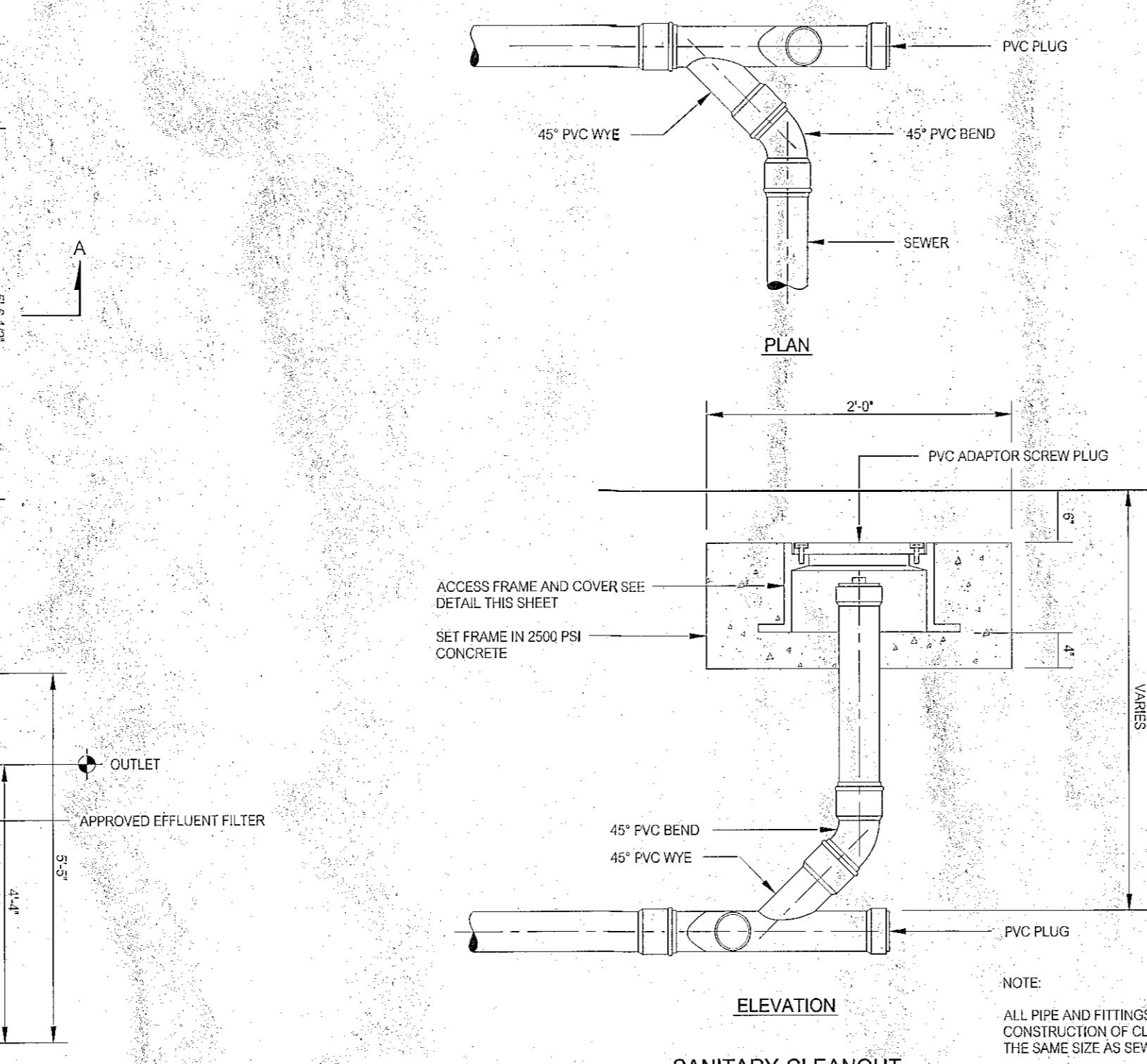
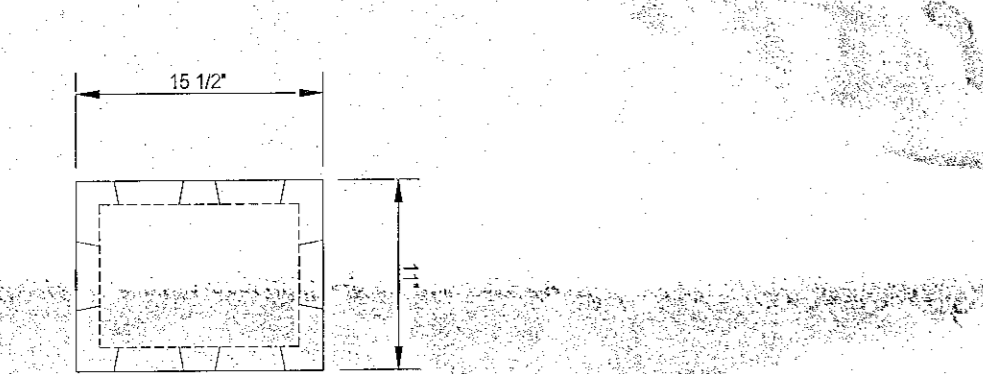
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1,250 GALLON PRECAST CONCRETE SEPTIC TANK
NOT TO SCALE

NOTES:

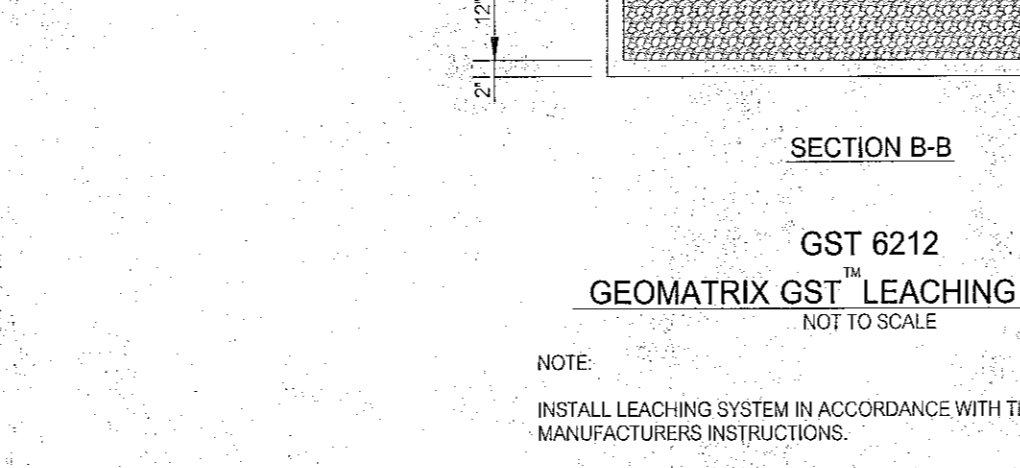
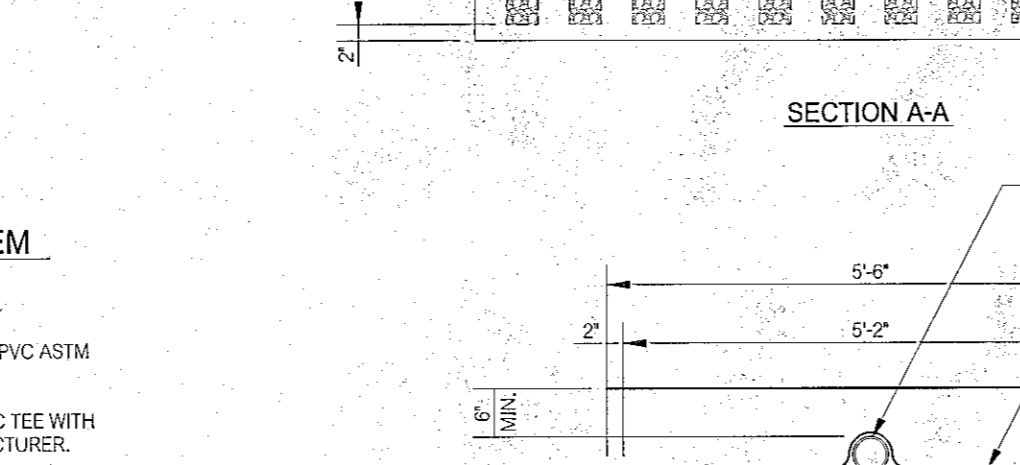
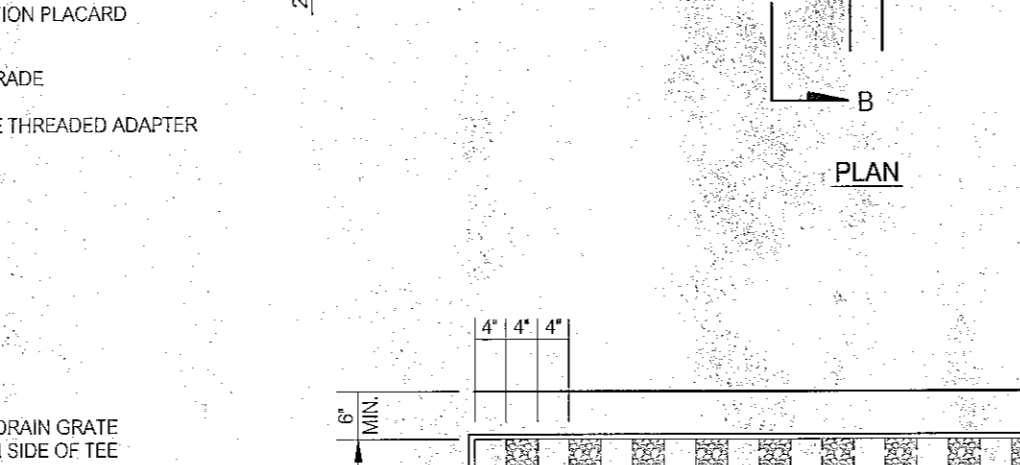
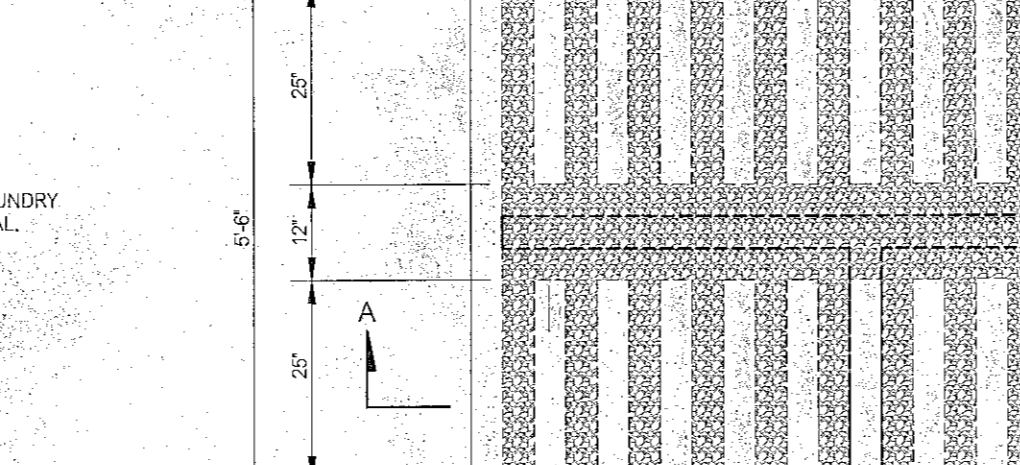
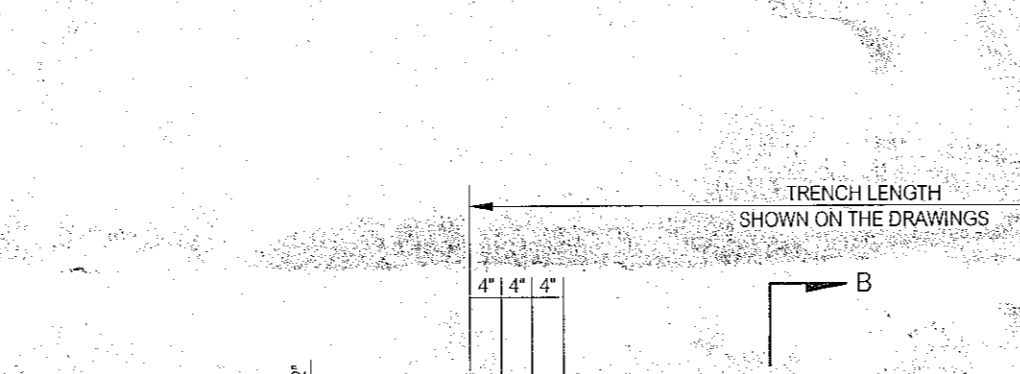
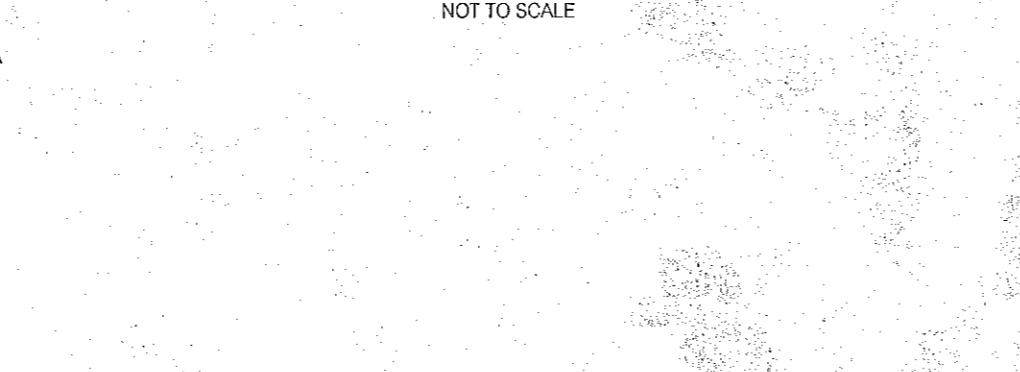
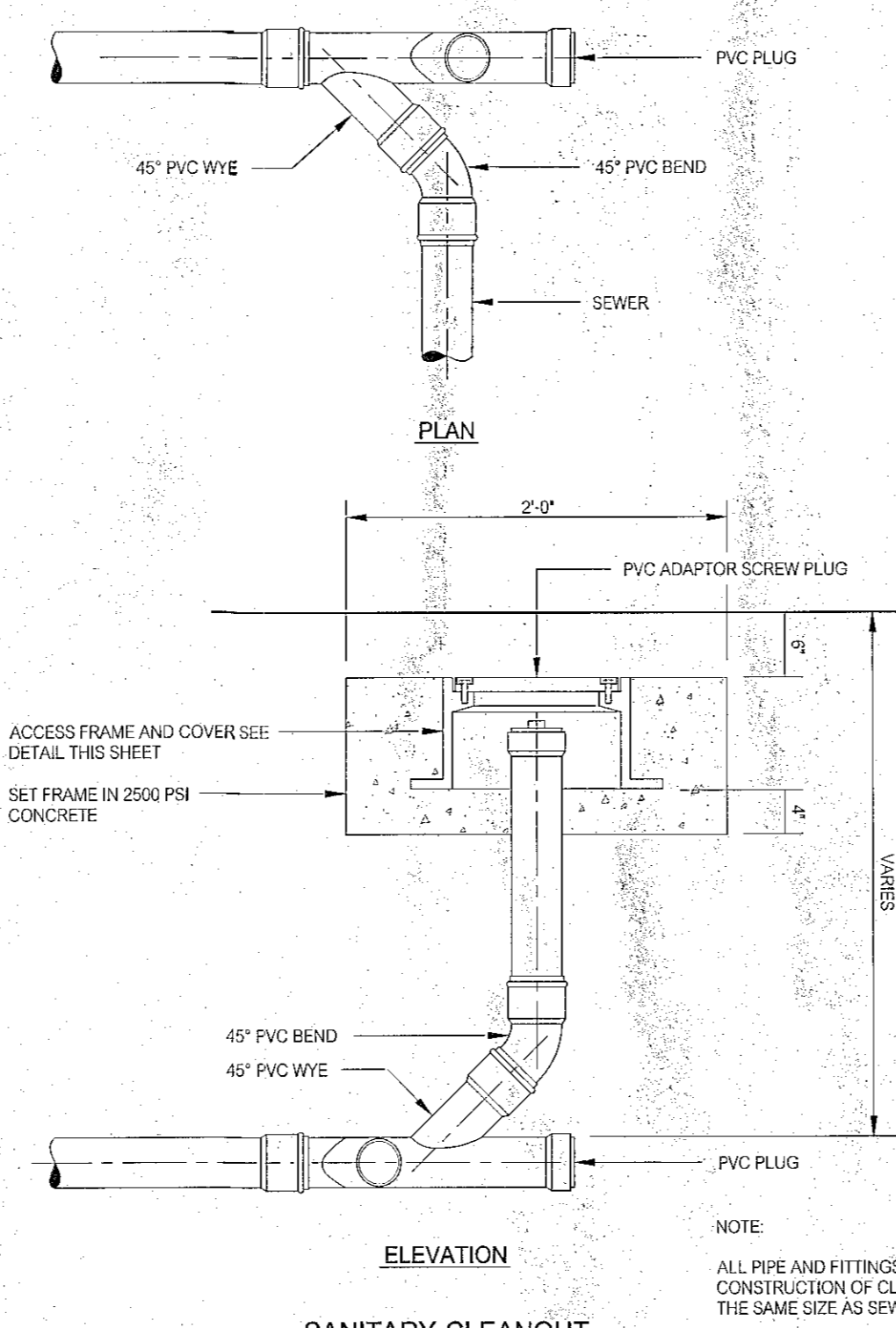
- SEPTIC TANK STRUCTURE DIMENSIONS SHOWN ARE BASED ON TYPICAL PRECAST CONCRETE MANUFACTURER DESIGNS FOR THE TYPE OF STRUCTURE SHOWN. ACTUAL DIMENSIONS MAY VARY WITH MANUFACTURER.
- CONCRETE REINFORCEMENT NOT SHOWN.



ACCESS FRAME AND COVER
NOT TO SCALE

NOTE:

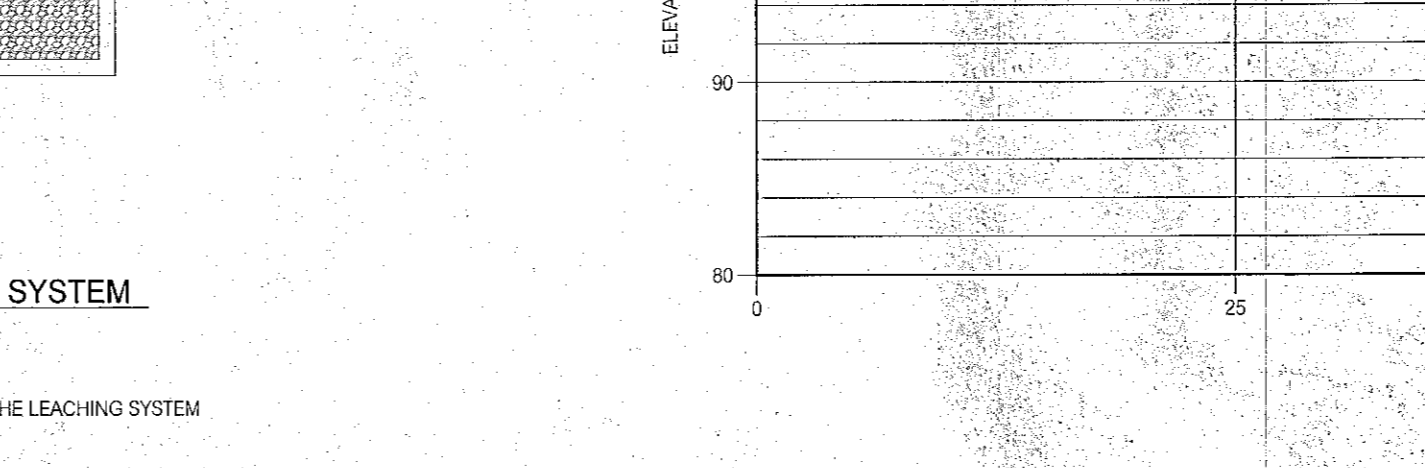
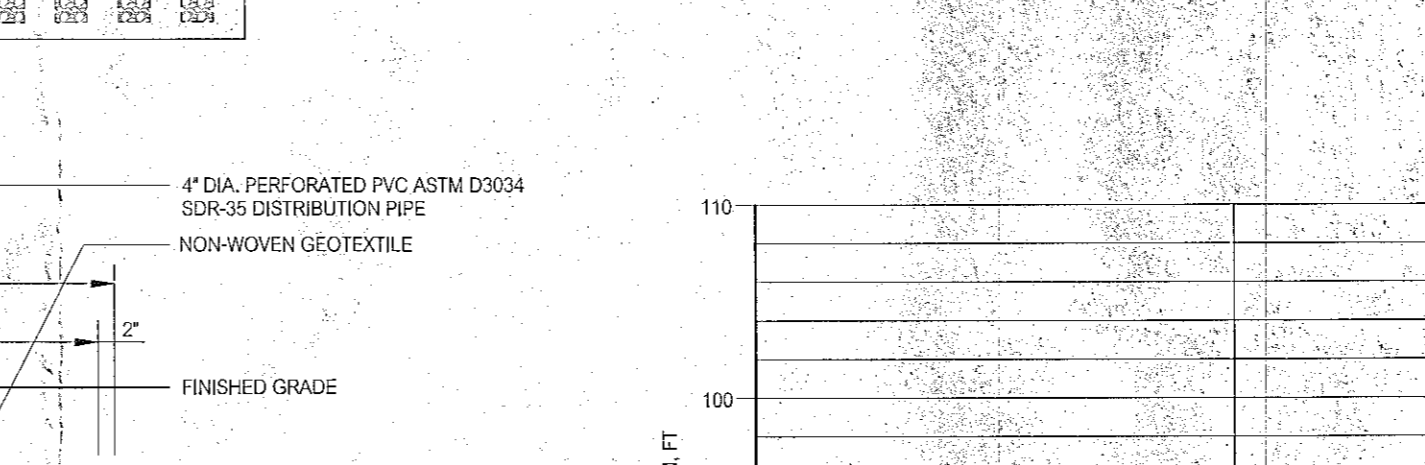
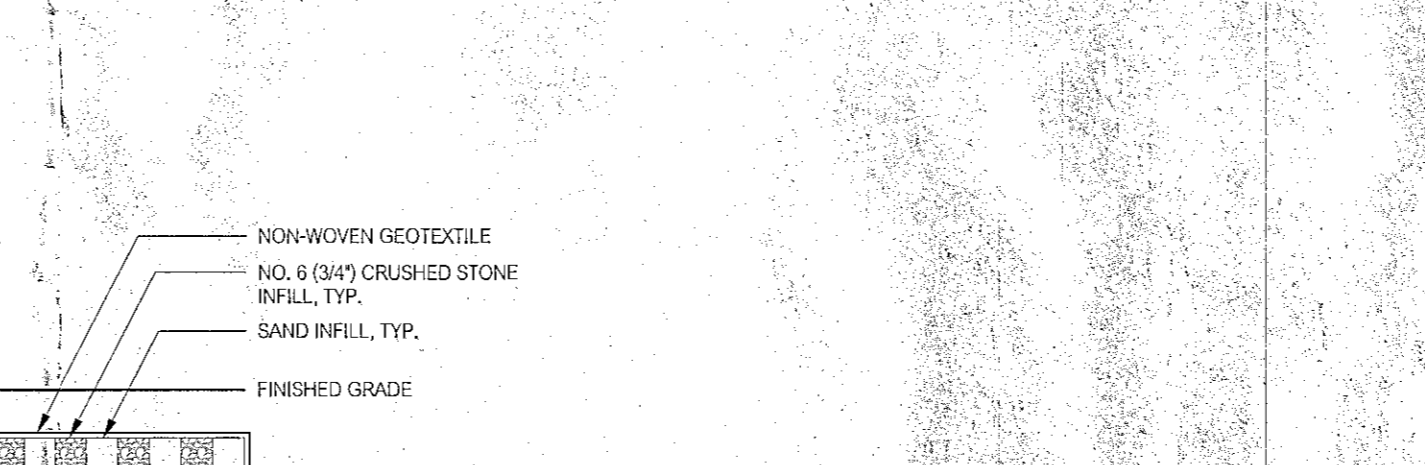
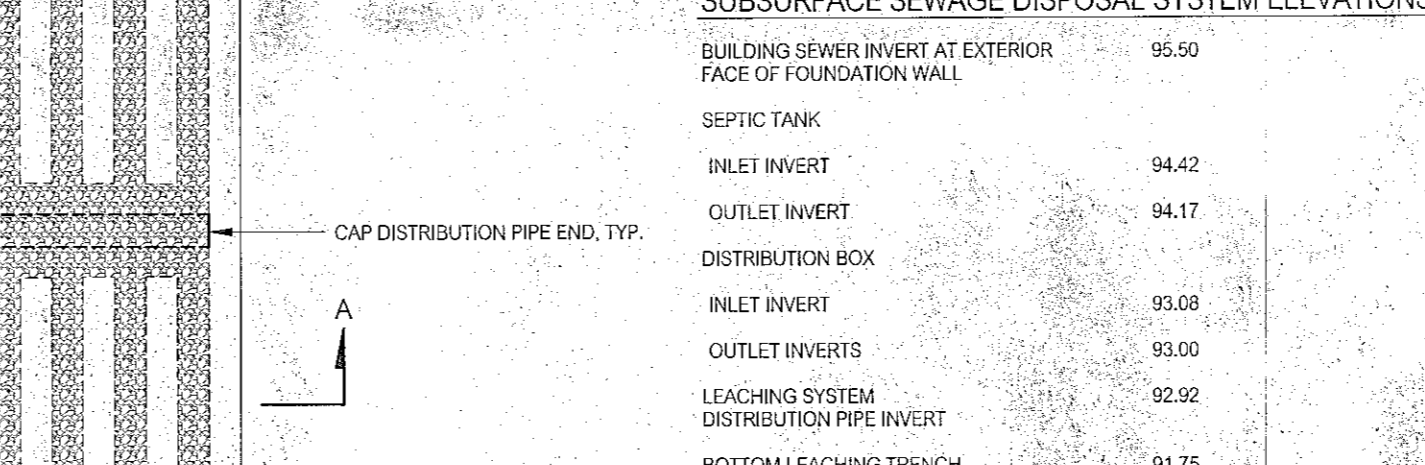
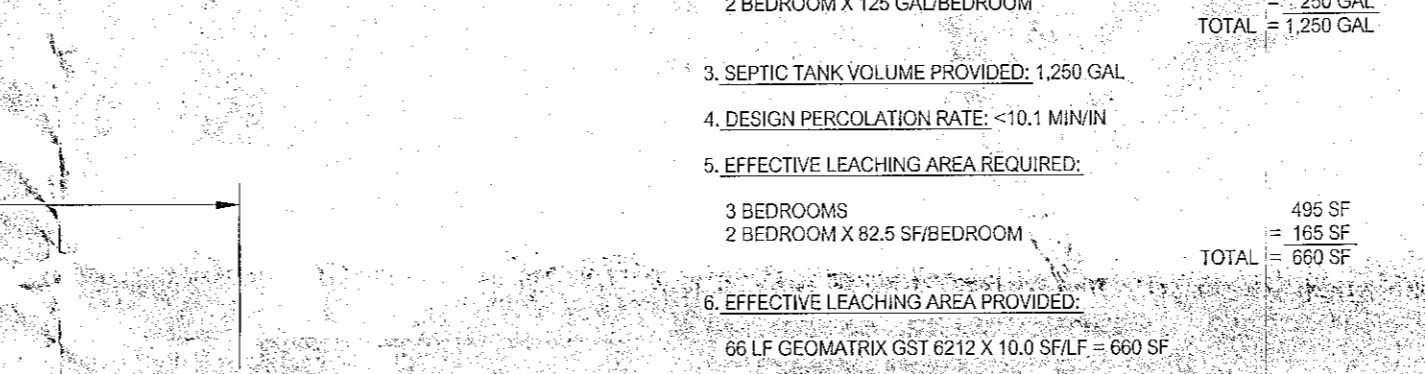
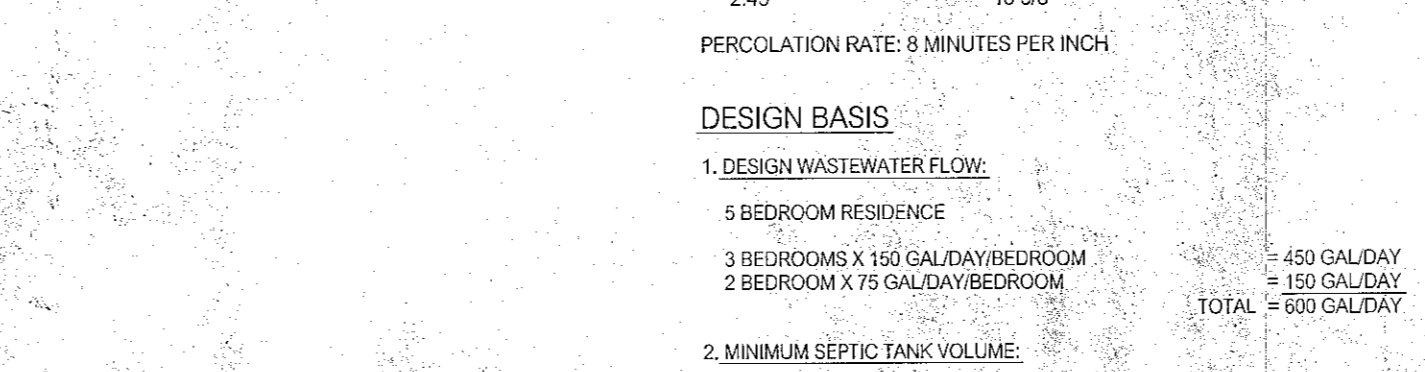
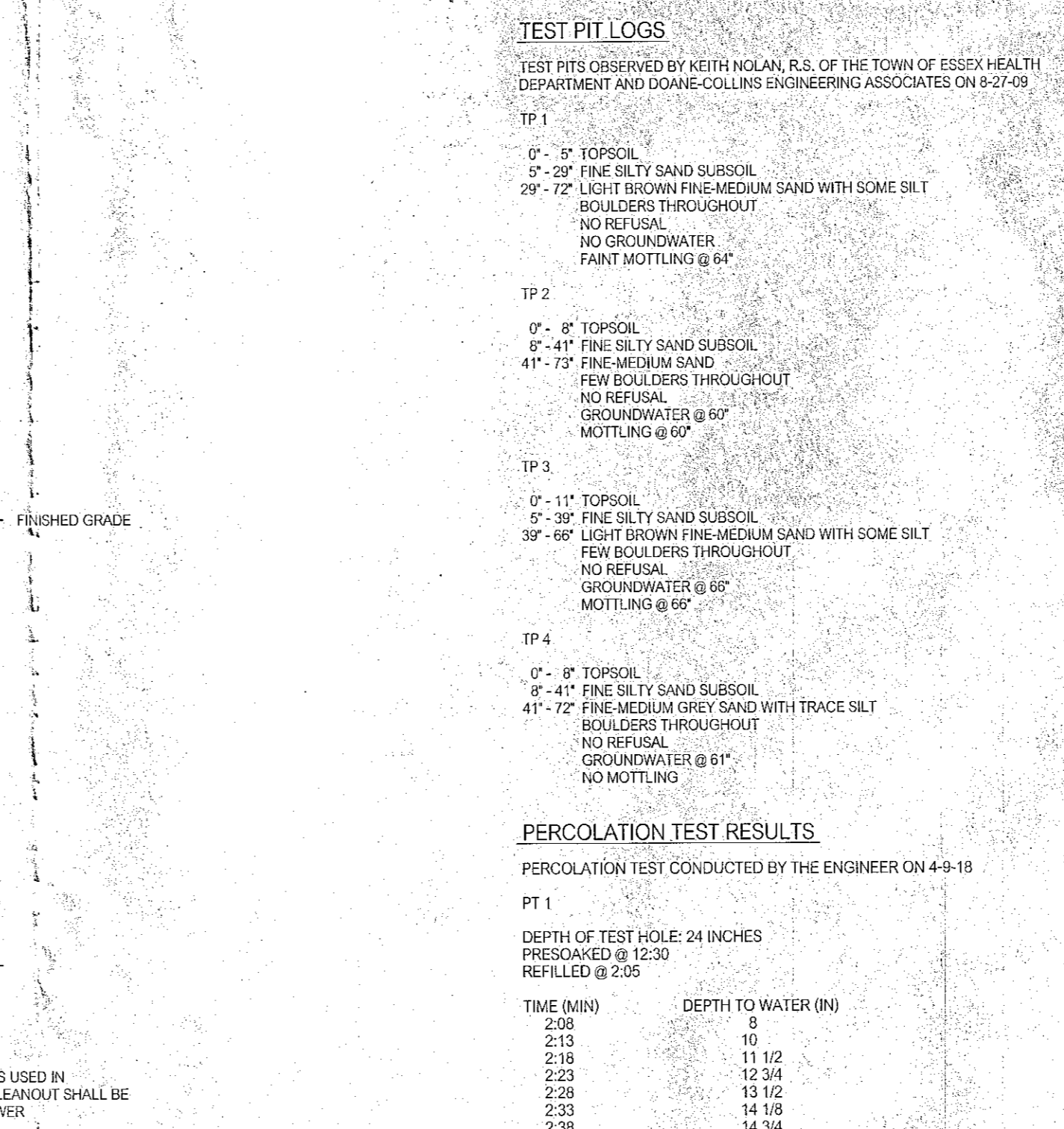
HEAVY DUTY, BOLTED TYPE ACCESS FRAME AND COVER, PATTERN NUMBER 4155 AS MANUFACTURED BY CAMPBELL FOUNDRY COMPANY, NORTH HAVEN, CONNECTICUT OR APPROVED EQUAL.



GST 6212 LEACHING SYSTEM
NOT TO SCALE

NOTE:

INSTALL LEACHING SYSTEM IN ACCORDANCE WITH THE LEACHING SYSTEM MANUFACTURER'S INSTRUCTIONS.



GST 6212 LEACHING SYSTEM
NOT TO SCALE

NOTE:

INSTALL LEACHING SYSTEM IN ACCORDANCE WITH THE LEACHING SYSTEM MANUFACTURER'S INSTRUCTIONS.

TEST PIT LOGS

TEST PITS OBSERVED BY KEITH NOLAN, P.S. OF THE TOWN OF ESSEX HEALTH DEPARTMENT AND DOANE-COLLINS ENGINEERING ASSOCIATES ON 8-27-09

TP 1

0' - 5\"/>

PERCOLATION TEST RESULTS

PERCOLATION TEST CONDUCTED BY THE ENGINEER ON 4-9-18

TP 1

DEPTH OF TEST HOLE: 24 INCHES
PRESOAKED @ 12:30
REFILLED @ 2:05

TIME (MIN)	DEPTH TO WATER (IN)
2:08	8
2:13	10
2:18	11 1/2
2:23	12 3/4
2:28	13 1/2
2:33	14 1/8
2:38	14 3/8
2:43	15 3/8

PERCOLATION RATE: 8 MINUTES PER INCH

DESIGN BASIS

- DESIGN WASTEWATER FLOW:

5 BEDROOM RESIDENCE	
3 BEDROOMS X 150 GAL/DAY/BEDROOM	450 GAL/DAY
2 BEDROOM X 75 GAL/DAY/BEDROOM	150 GAL/DAY
TOTAL	600 GAL/DAY
- MINIMUM SEPTIC TANK VOLUME:

3 BEDROOMS	1,000 GAL
2 BEDROOM X 125 GAL/BEDROOM	250 GAL
TOTAL	1,250 GAL
- SEPTIC TANK VOLUME PROVIDED: 1,250 GAL
- DESIGN PERCOLATION RATE: <10:1 MIN/IN
- EFFECTIVE LEACHING AREA REQUIRED:

3 BEDROOMS	495 SF
2 BEDROOM X 82.5 SF/BEDROOM	165 SF
TOTAL	660 SF
- EFFECTIVE LEACHING AREA PROVIDED:

66 LF GEOMATRIX GST 6212 X 10.0 SELF =	660 SF
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SUBSURFACE SEWAGE DISPOSAL SYSTEM ELEVATIONS

ITEM	ELEVATION
BUILDING SEWER INVERT AT EXTERIOR FACE OF FOUNDATION WALL	95.50
SEPTIC TANK INLET INVERT	94.42
SEPTIC TANK OUTLET INVERT	94.17
DISTRIBUTION BOX INLET INVERT	93.08
DISTRIBUTION BOX OUTLET INVERTS	93.00
LEACHING SYSTEM DISTRIBUTION PIPE INVERT	92.92
BOTTOM LEACHING TRENCH	91.75

MATERIAL REQUIREMENTS:

- PRECAST CONCRETE PRODUCTS:

PRECAST CONCRETE PRODUCTS SHALL MEET THE REQUIREMENTS OF THE TECHNICAL STANDARDS AND:

SEPTIC TANKS AND PUMP CHAMBERS: ASTM C1227 STANDARD SPECIFICATION FOR CONCRETE SEPTIC TANKS. SEALS AT PIPE AND CONDUIT PENETRATIONS SHALL BE WATER TIGHT MEETING THE REQUIREMENTS OF ASTM C1664 STANDARD SPECIFICATION FOR RESILIENT CONNECTORS BETWEEN REINFORCED CONCRETE ON-SITE WASTEWATER TANKS AND PIPE.

LEACHING CHAMBERS: ASTM C913 STANDARD SPECIFICATION FOR PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES.
- POLYVINYL CHLORIDE (PVC) PIPE:

BUILDING SEWER PIPE: ASTM D1785 STANDARD SPECIFICATION FOR POLYVINYL CHLORIDE (PVC) SCHEDULES 40, 80, AND 120, SOLID WALL, WITH SOLVENT WELD FITTINGS AND JOINTS.

EFFLUENT SEWER AND DISTRIBUTION PIPE: ASTM D3034 STANDARD SPECIFICATION FOR TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, STANDARD DIMENSION RATIO 35, SOLID WALL WITH BELL AND SPIGOT RUBBER COMPRESSION GASKET FITTINGS AND JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 STANDARD SPECIFICATION FOR JOINTS FOR DRAIN AND SEWER PIPES USING FLEXIBLE ELASTOMERIC SEALS, OR SOLVENT WELD FITTINGS AND JOINTS, AND PERFORATED WITH BELL AND SPIGOT JOINTS.
- GEOTEXTILES:

NON-WOVEN SEPARATION/FILTRATION FABRIC COMPRISED OF POLYESTER, POLYPROPYLENE, OR POLYETHYLENE FABRICATED INTO A STABLE NETWORK OF FIBERS THAT RETAIN THEIR RELATIVE POSITION WITH RESPECT TO EACH OTHER. NON-WOVEN GEOTEXTILE SHALL BE COMPOSED OF CONTINUOUS OR DISCONTINUOUS (STAPLE) FIBERS HELD TOGETHER THROUGH NEEDLE-PUNCHING, SPUN-BONDING, THERMAL-BONDING, OR RESIN-BONDING.

GEOTEXTILE EDGES: SELVAGED OR OTHERWISE FINISHED TO PREVENT OUTER MATERIAL FROM PULLING AWAY FROM GEOTEXTILE.

MINIMUM AVERAGE ROLL VALUES:

PROPERTY	DESIGN VALUE	TEST METHOD
TENSILE STRENGTH	120 LBS	ASTM D4632
ELONGATION	50%	ASTM D4632
TRAPEZOIDAL TEAR	50 LBS	ASTM D4633
MULLEN BURST STRENGTH	225 PSI	ASTM D3786
PUNCTURE STRENGTH	85 LBS	ASTM D4833
A.C.S.	70 (US SIEVE)	ASTM D4751
PERMITTIVITY	1.8 SEC-C1	ASTM D4891

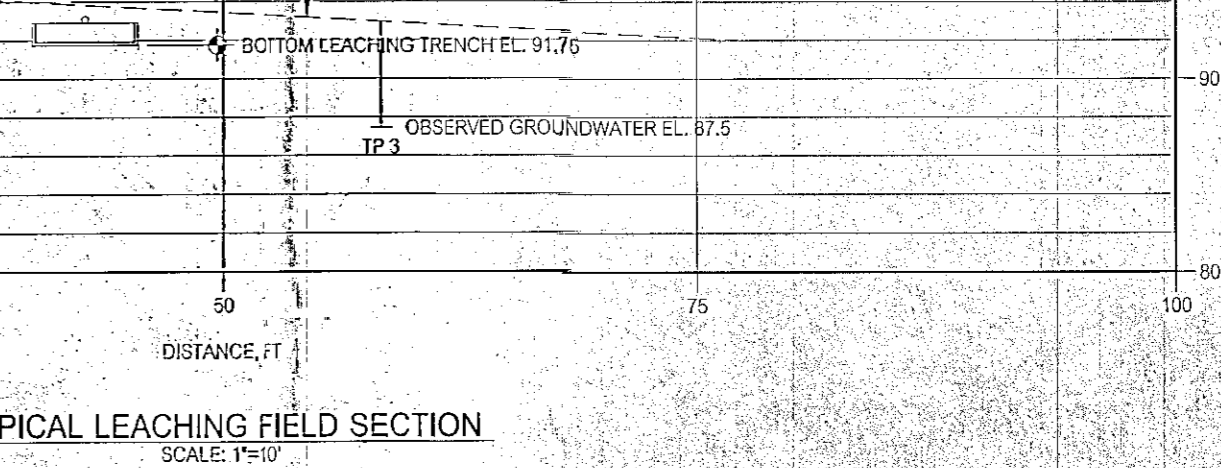
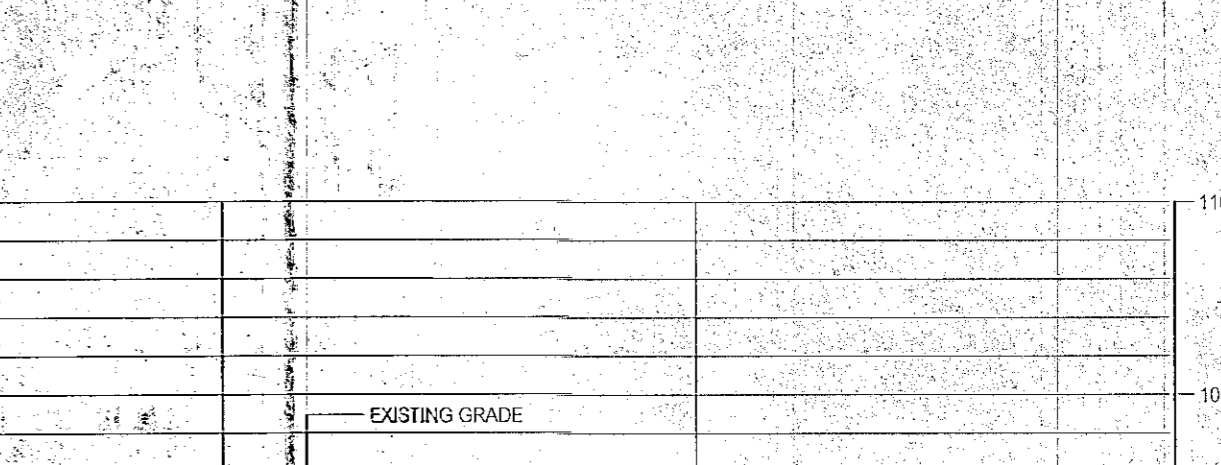
ACCEPTABLE MANUFACTURERS AND TYPES:

MIRAFI 65303, 65304
TERRATEX SOL 5, POL 5
TYPAR 9191, 3201
- STONE AGGREGATE:

CLEAN, WASHED CRUSHED OR BROKEN STONE OF THE SIZES SHOWN ON THE DRAWINGS MEETING THE GRADATION REQUIREMENTS OF SECTION M.01 AND THE REQUIREMENTS OF SECTION M.02 (B) 3. AND 4. REGARDING RESISTANCE TO ABRASION AND SKIDNESS RESPECTIVELY OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 817, 2016, LATEST REVISION, INCLUDING ALL SUPPLEMENTS THERETO.
- SAND:

CLEAN SAND MEETING THE PARTICLE GRADATION REQUIREMENTS OF ASTM C33 STANDARD SPECIFICATION FOR CONCRETE AGGREGATES.
- COMMON FILL:

CLEAN, FRAGILE, NON-PLASTIC IN-ORGANIC SOIL MATERIAL, CONTAINING NO STONE GREATER THAN TWO THIRDS (2/3) OF THE REQUIRED LOOSE LIFT THICKNESS. THE MATERIAL SHALL BE FREE FROM DEBRIS, ICE, SNOW, FROZEN LUMPS, VEGETATION, STUMPS, ROOTS, OR OTHER ORGANIC MATERIALS.



TYPICAL LEACHING FIELD SECTION
SCALE: 1"=10'

SITE DEVELOPMENT PLANS

LAND OF LINDA H. BRYNES & JOSEPH BRYNES
21 GROVE STREET
ESSEX, CONNECTICUT

PERMIT DRAWINGS

NO.	DATE	DESCRIPTION
2-15-21		LEACHING FIELD, BARN LOCATION
9-24-18		HEALTH DEPARTMENT REVIEW COMMENTS
8-1-18		IVWC CONDITIONS OF APPROVAL
6-1-18		MISCELLANEOUS

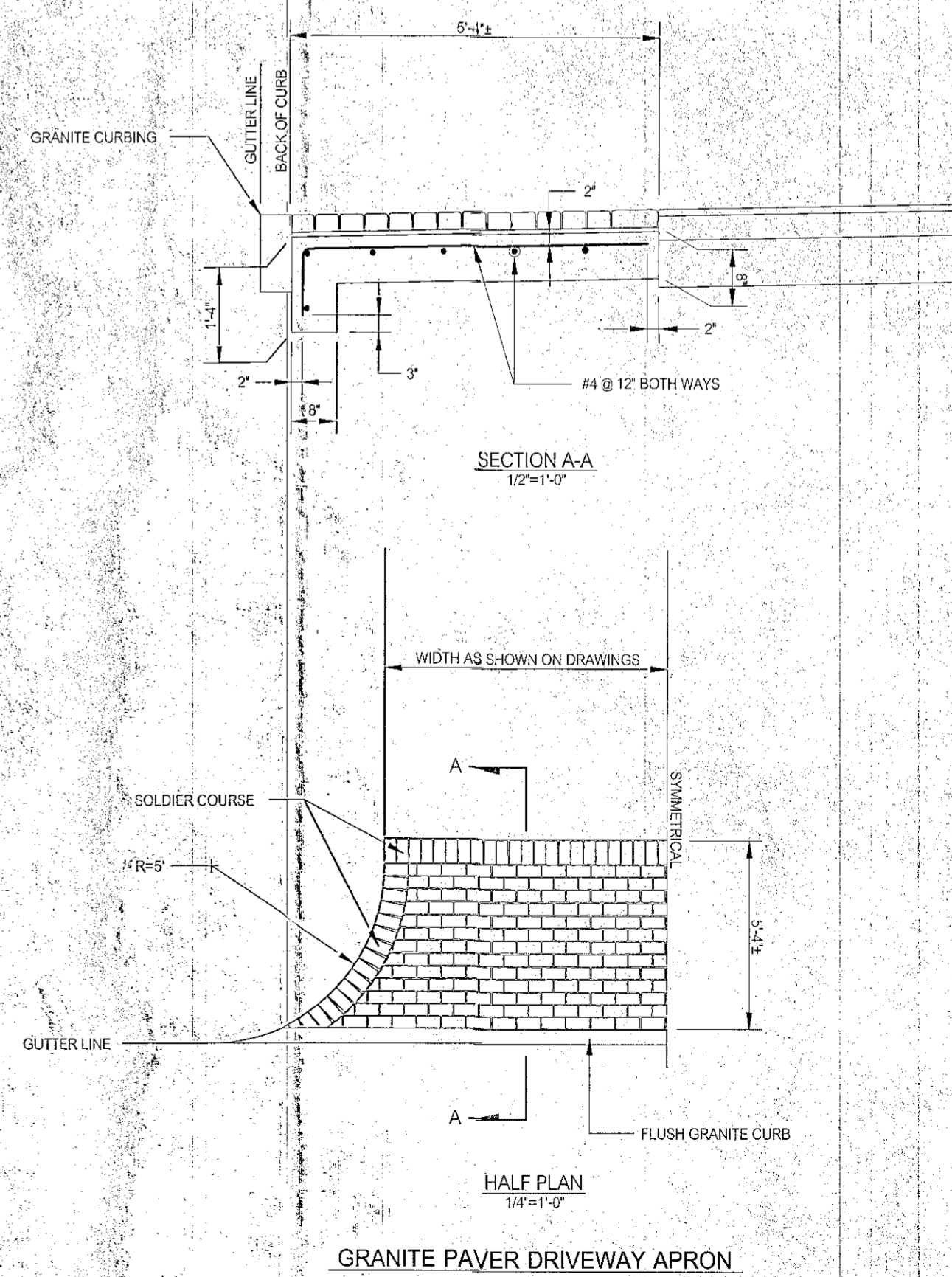
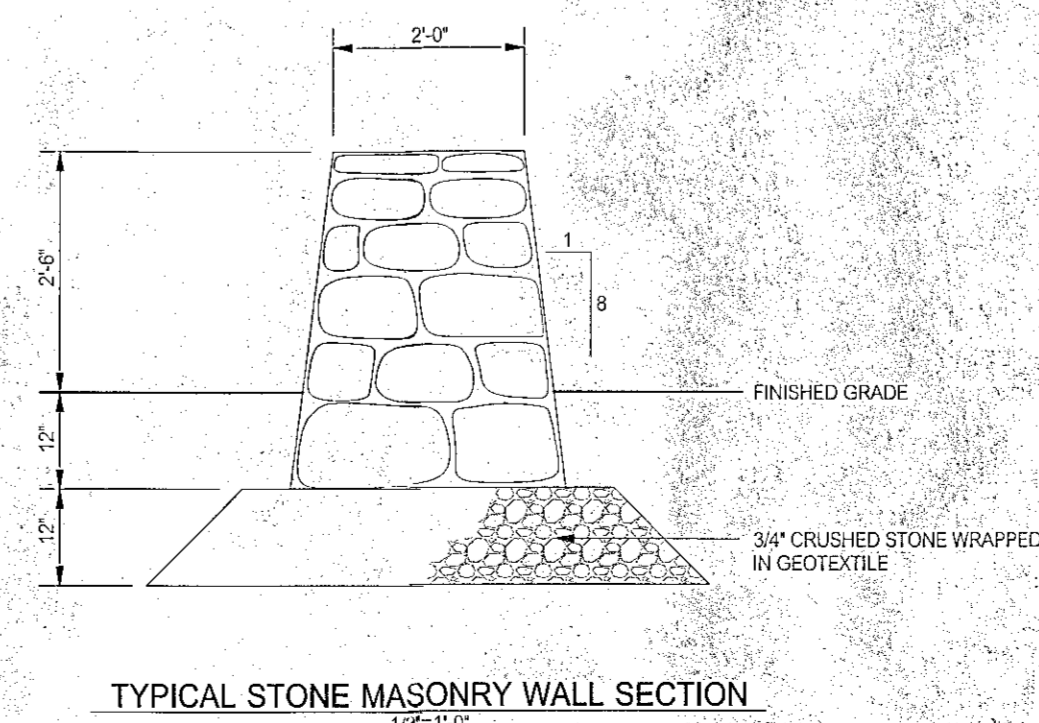
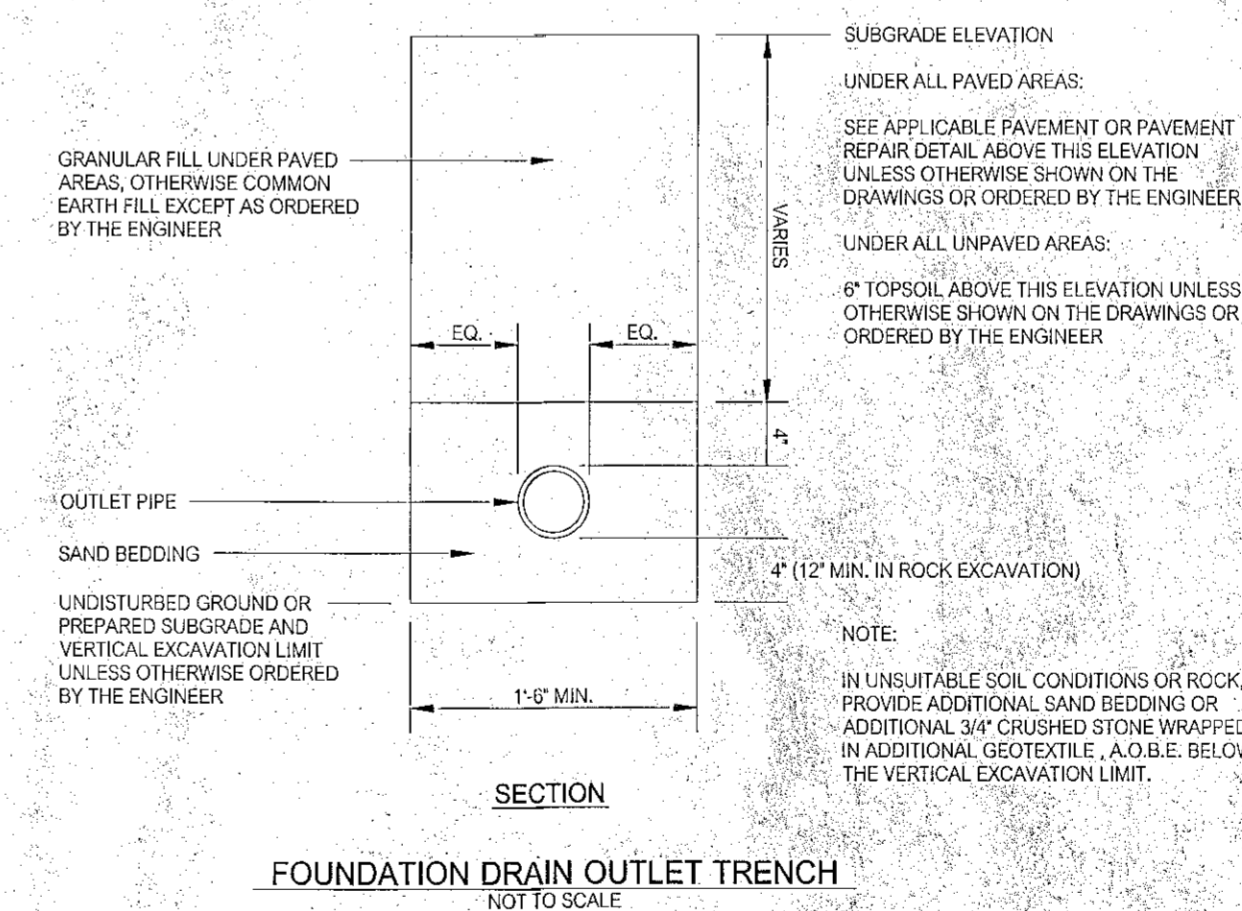
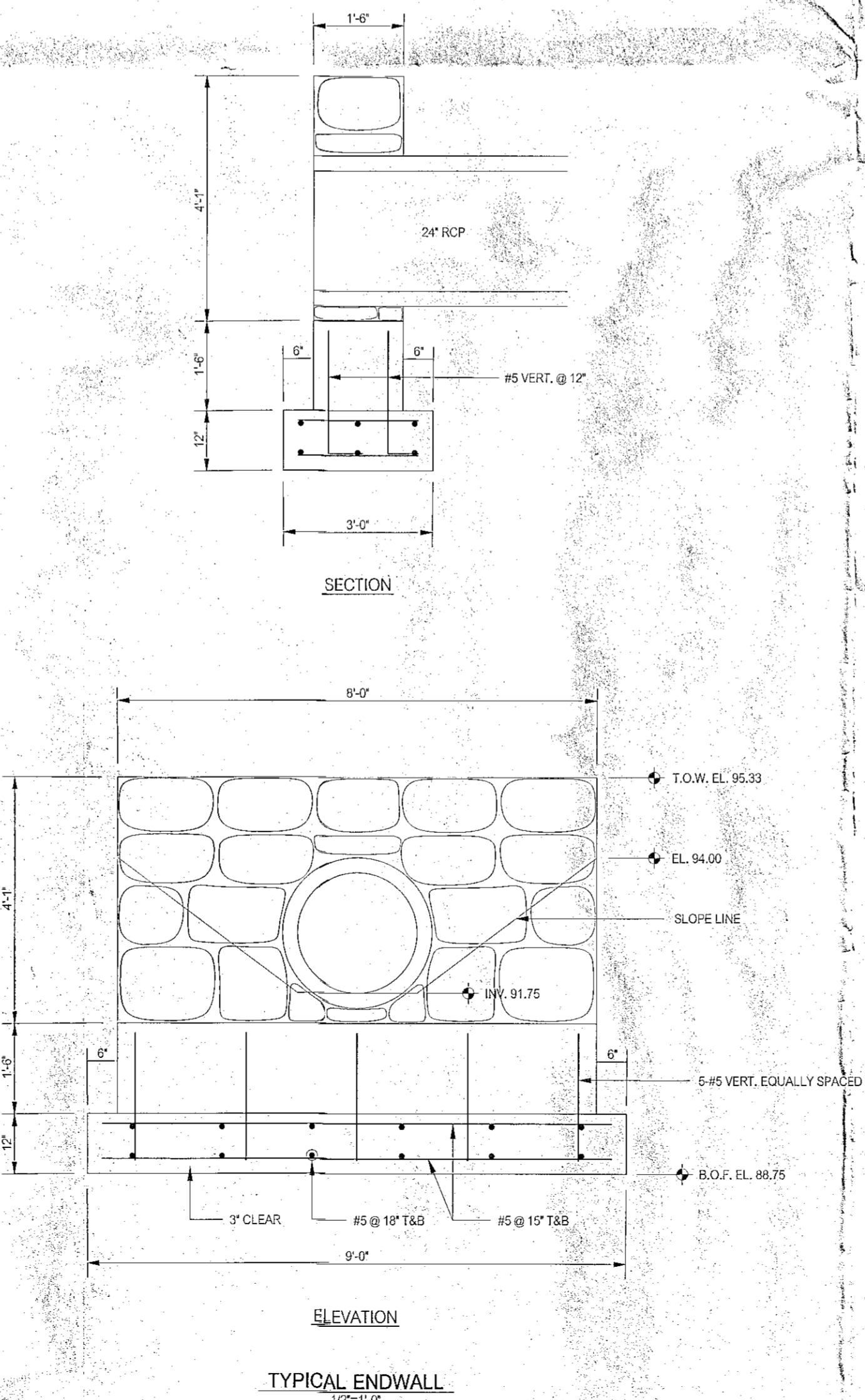
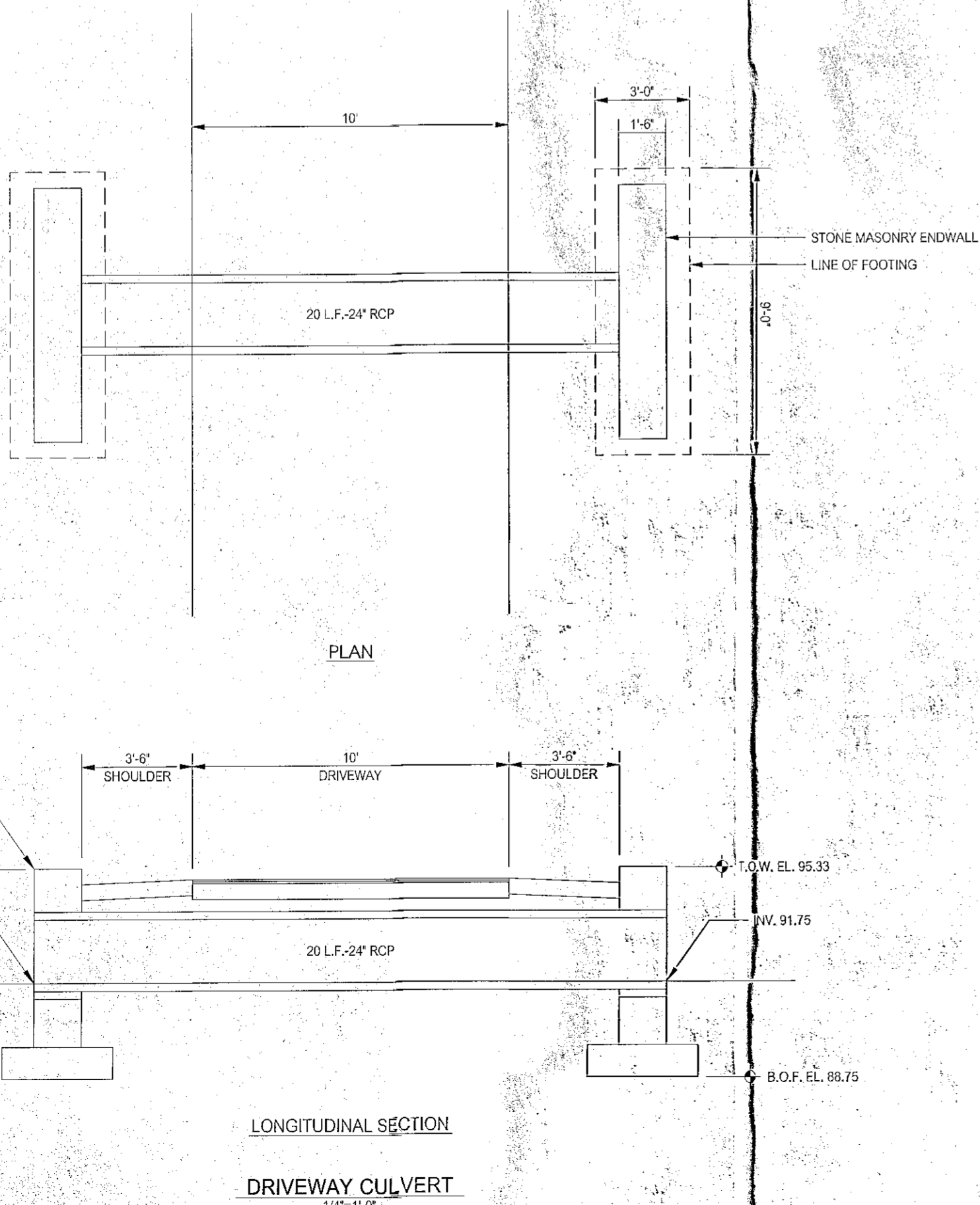
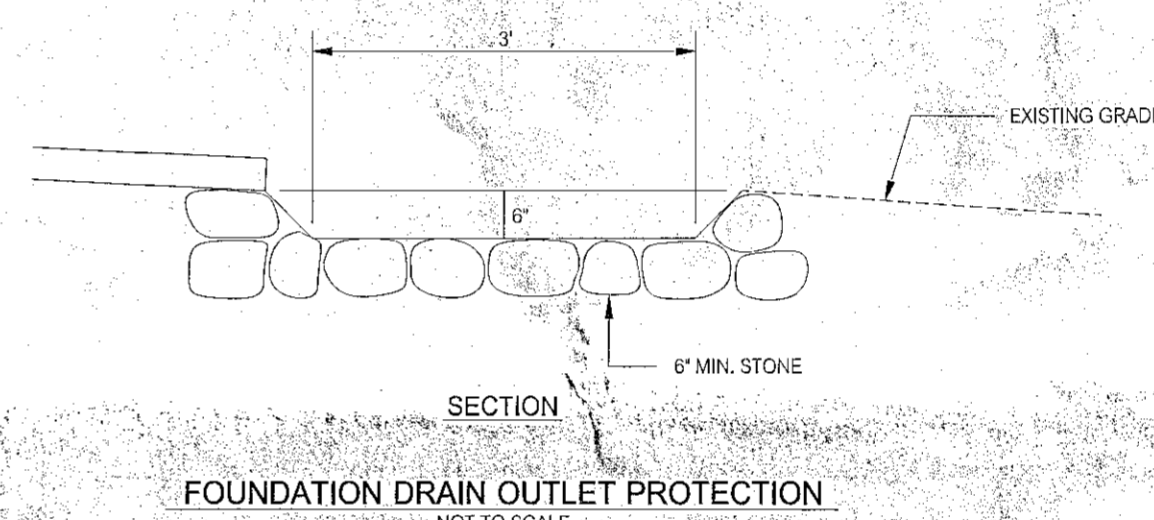
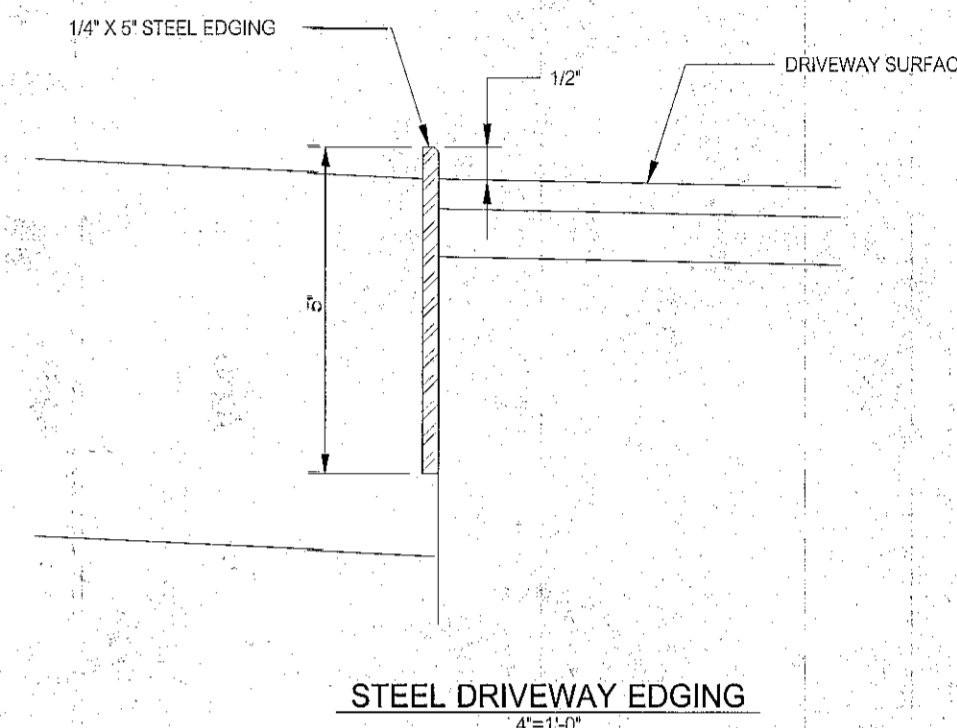
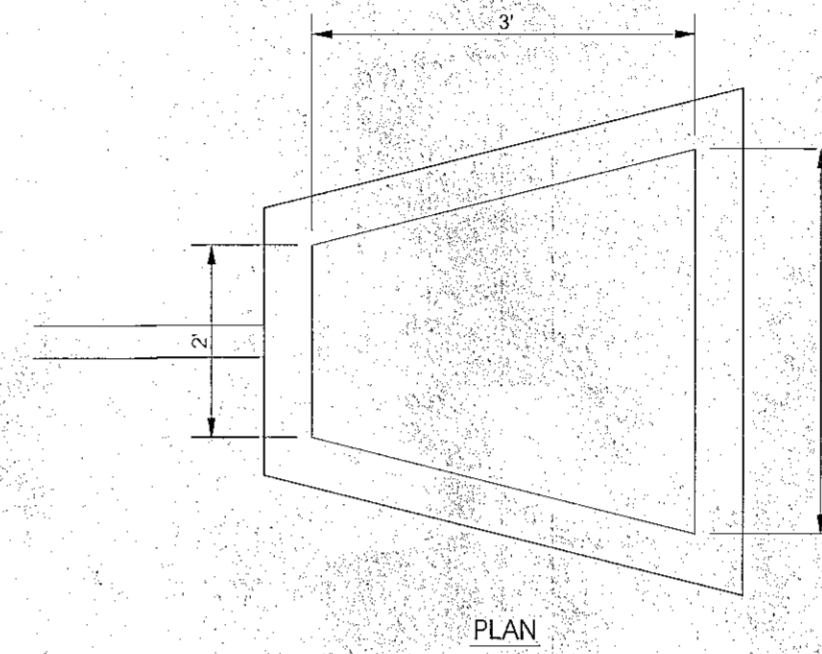
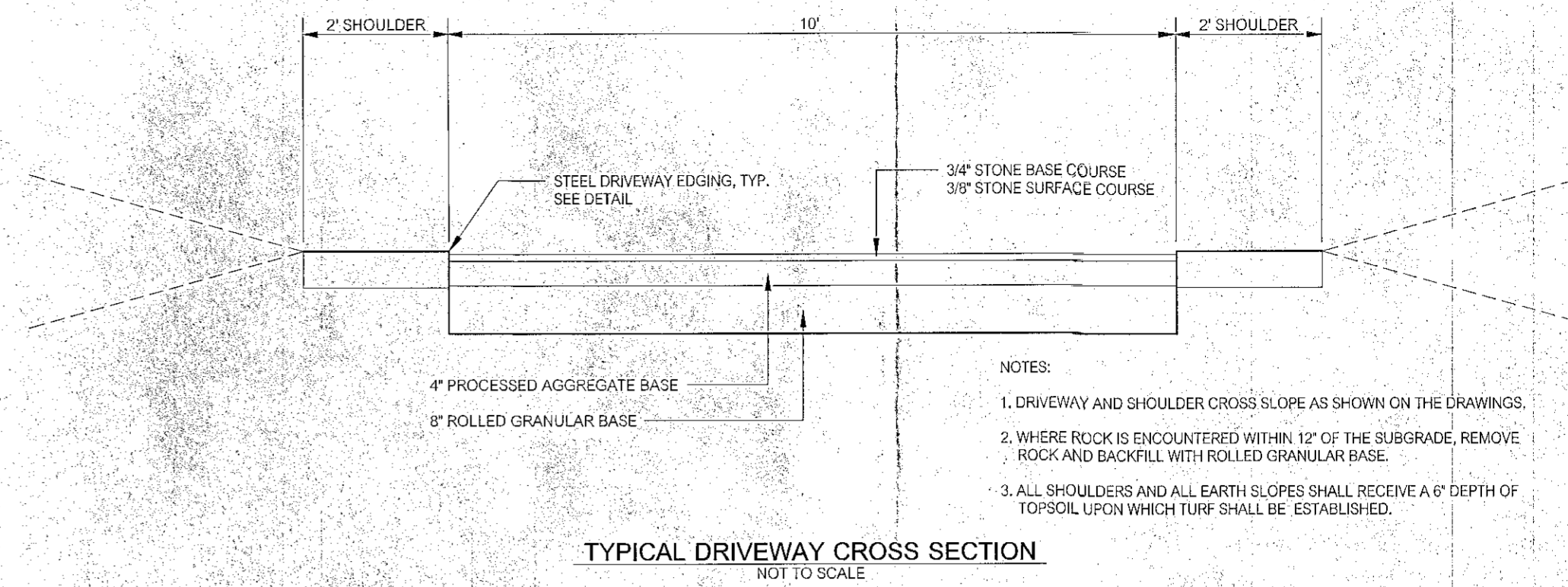
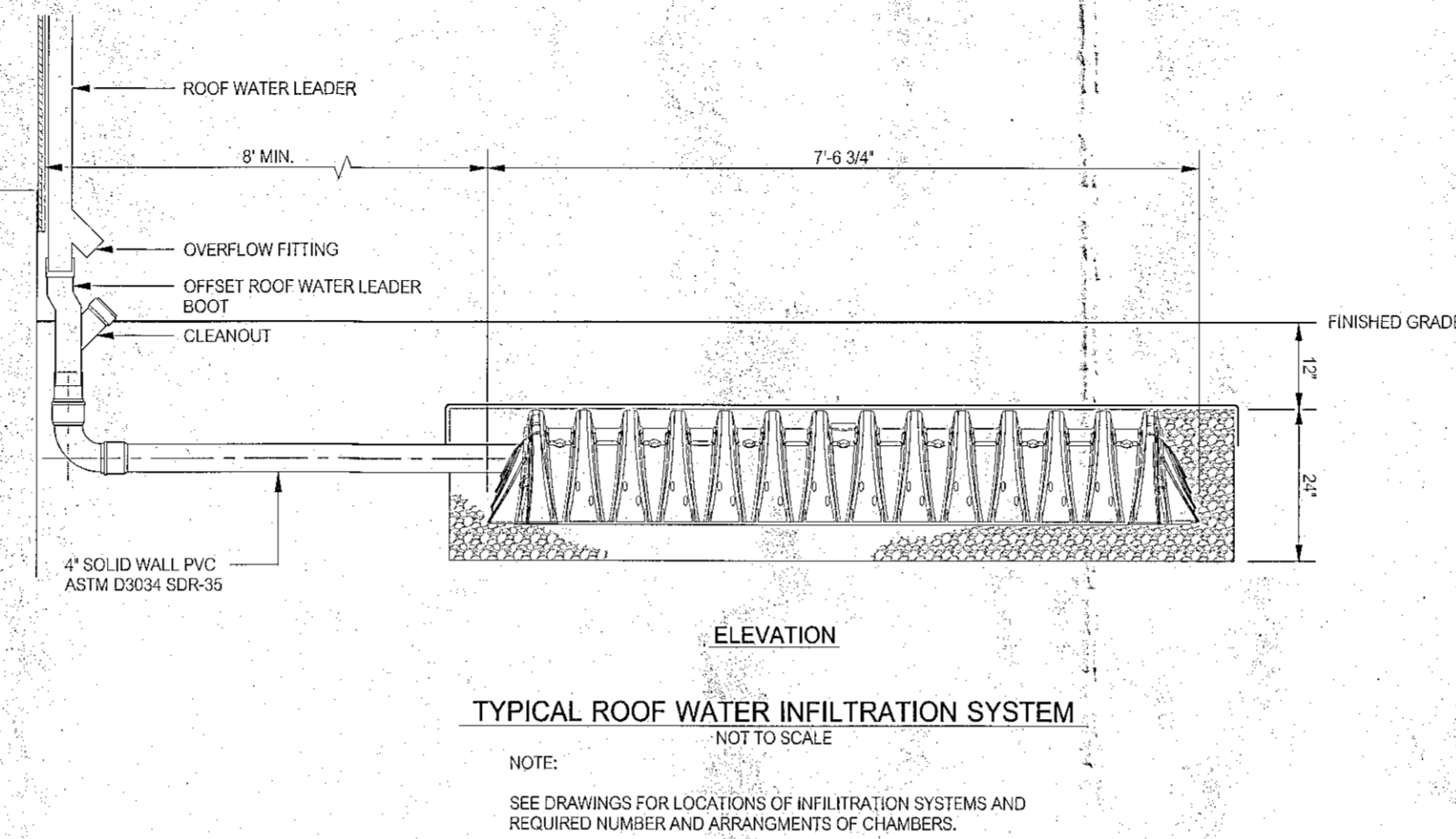
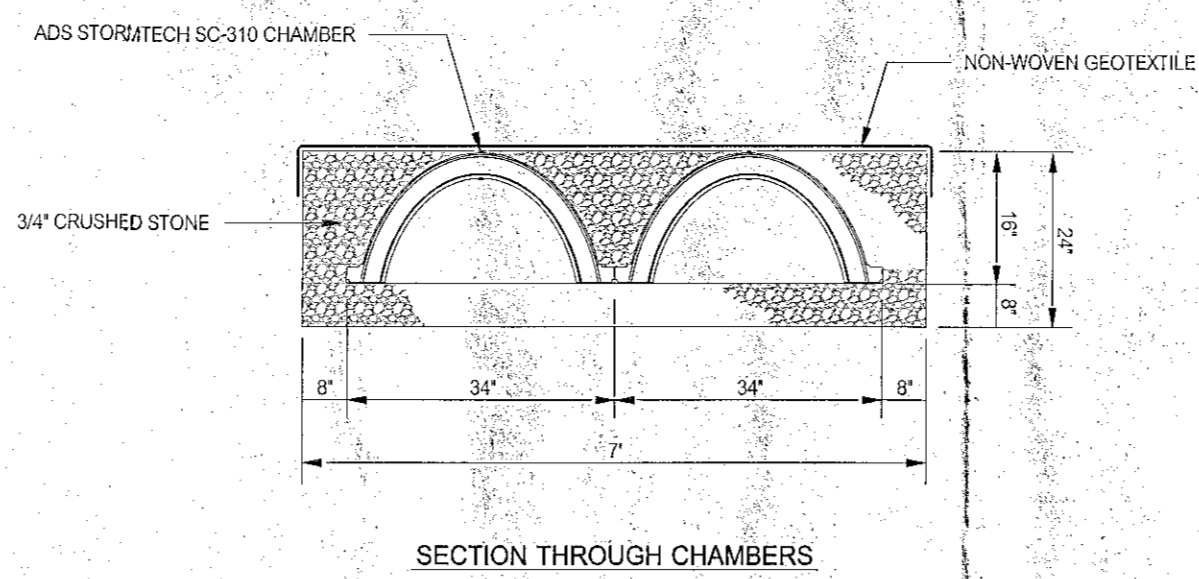
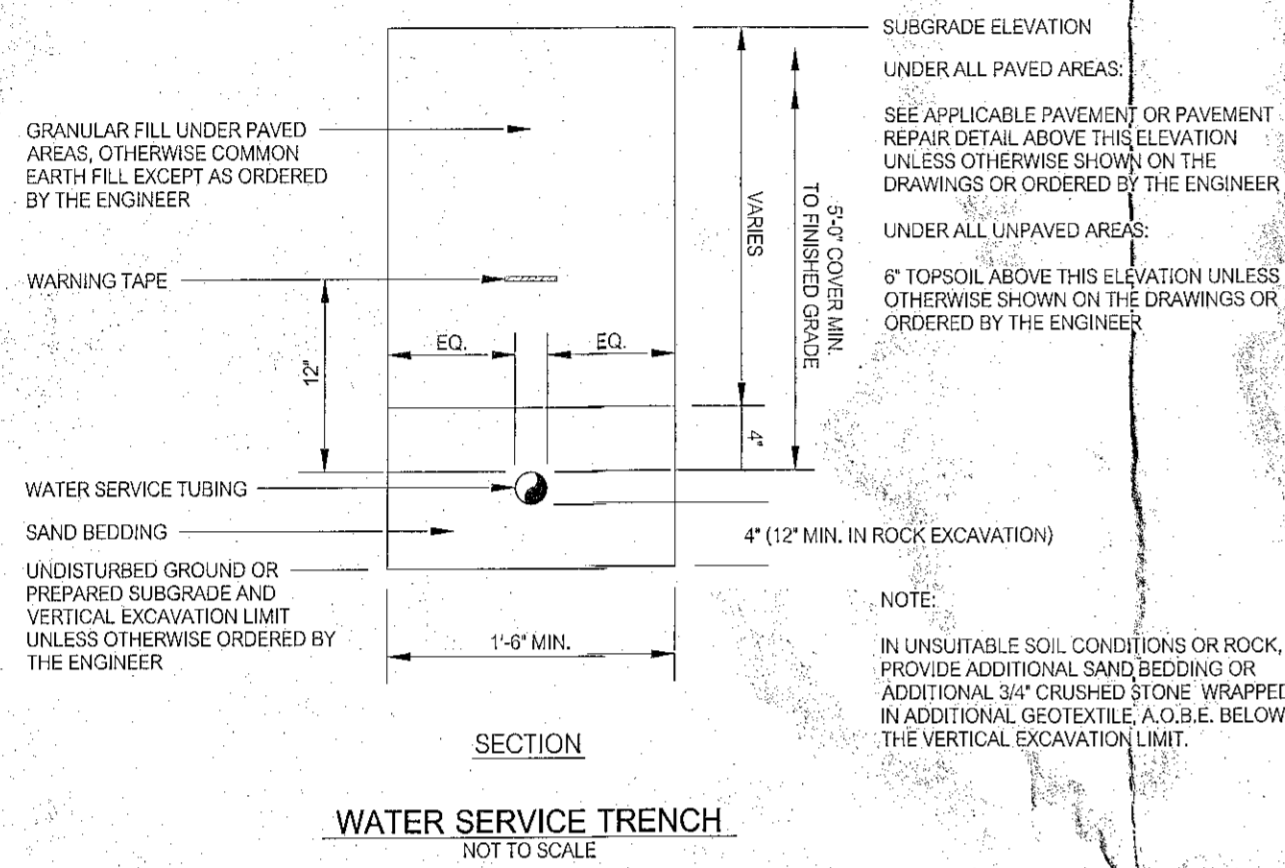
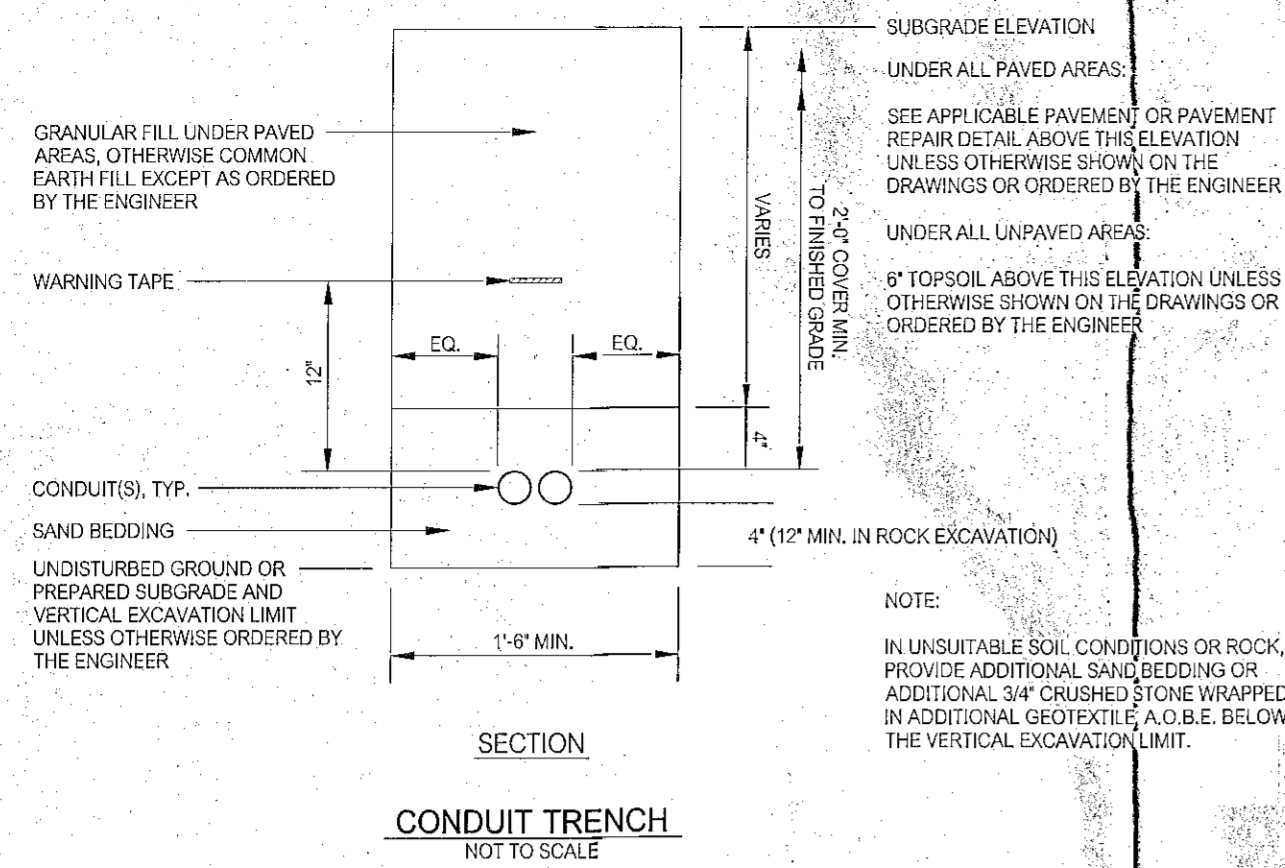
REVISIONS

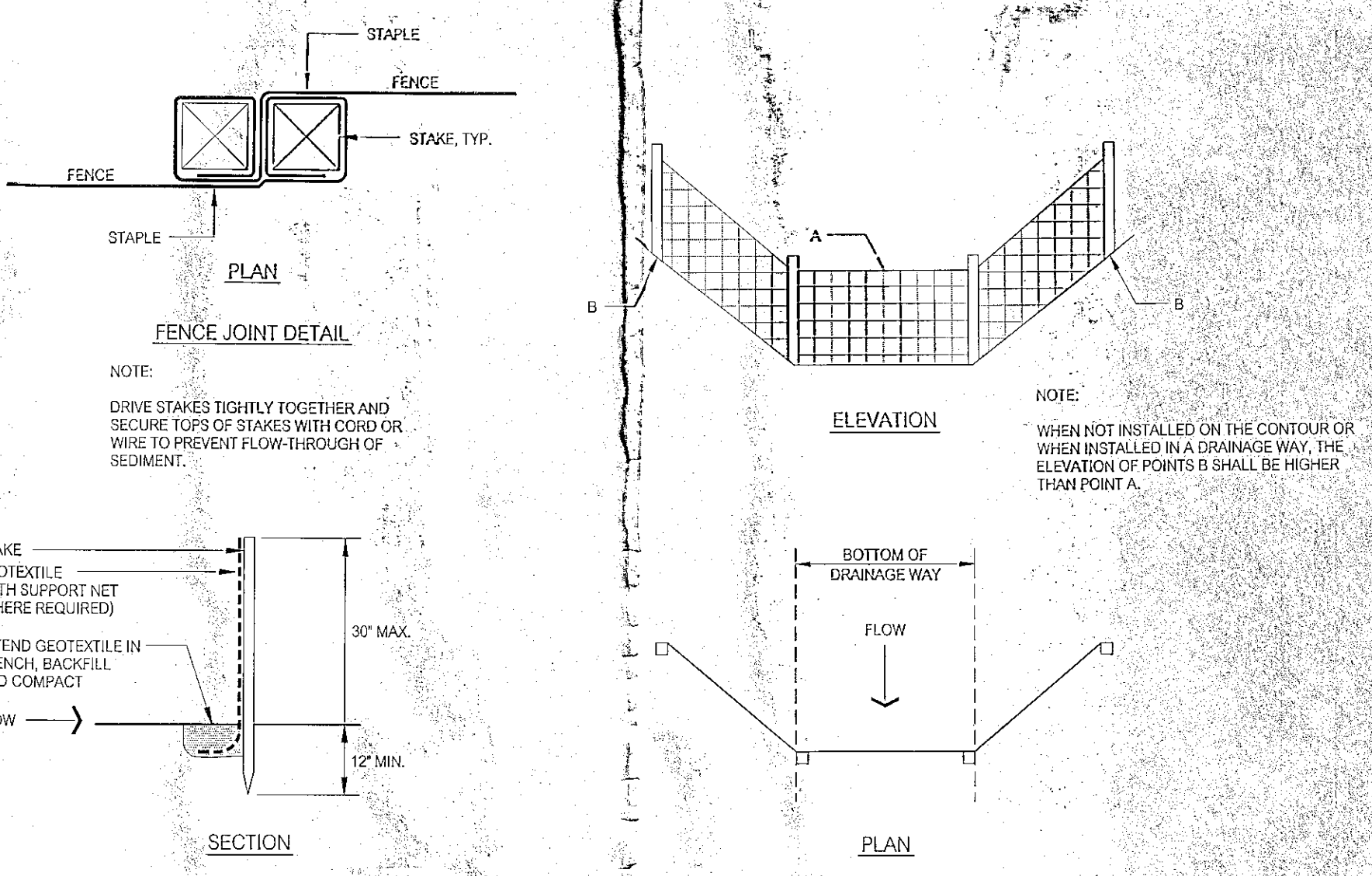
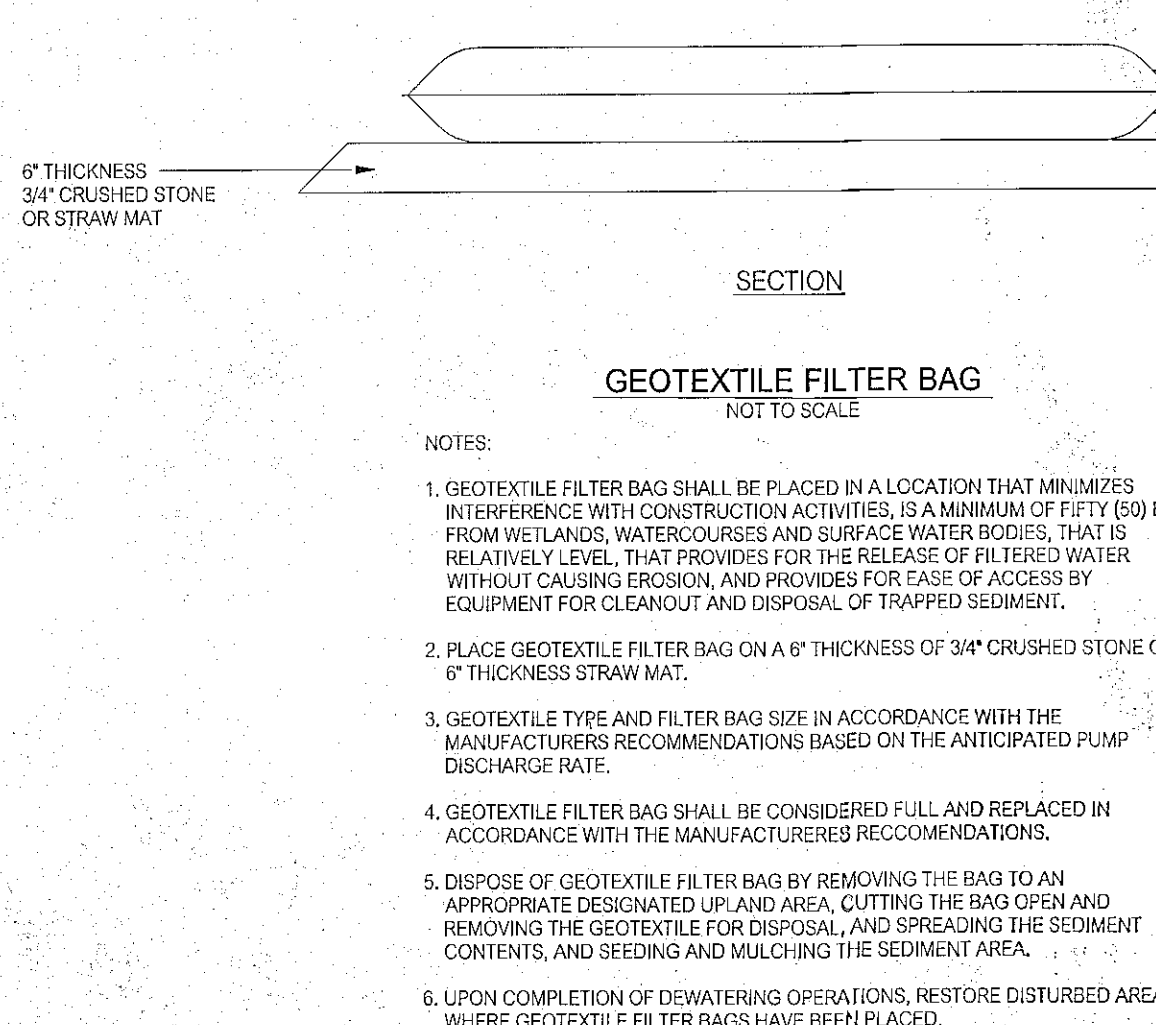
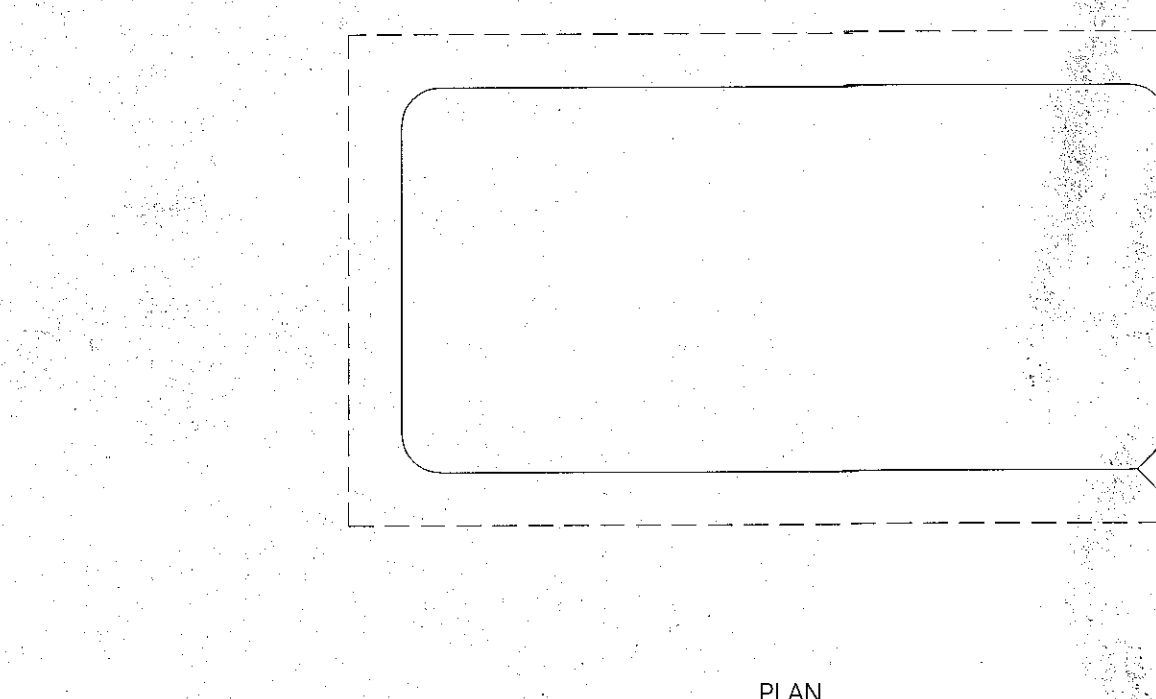
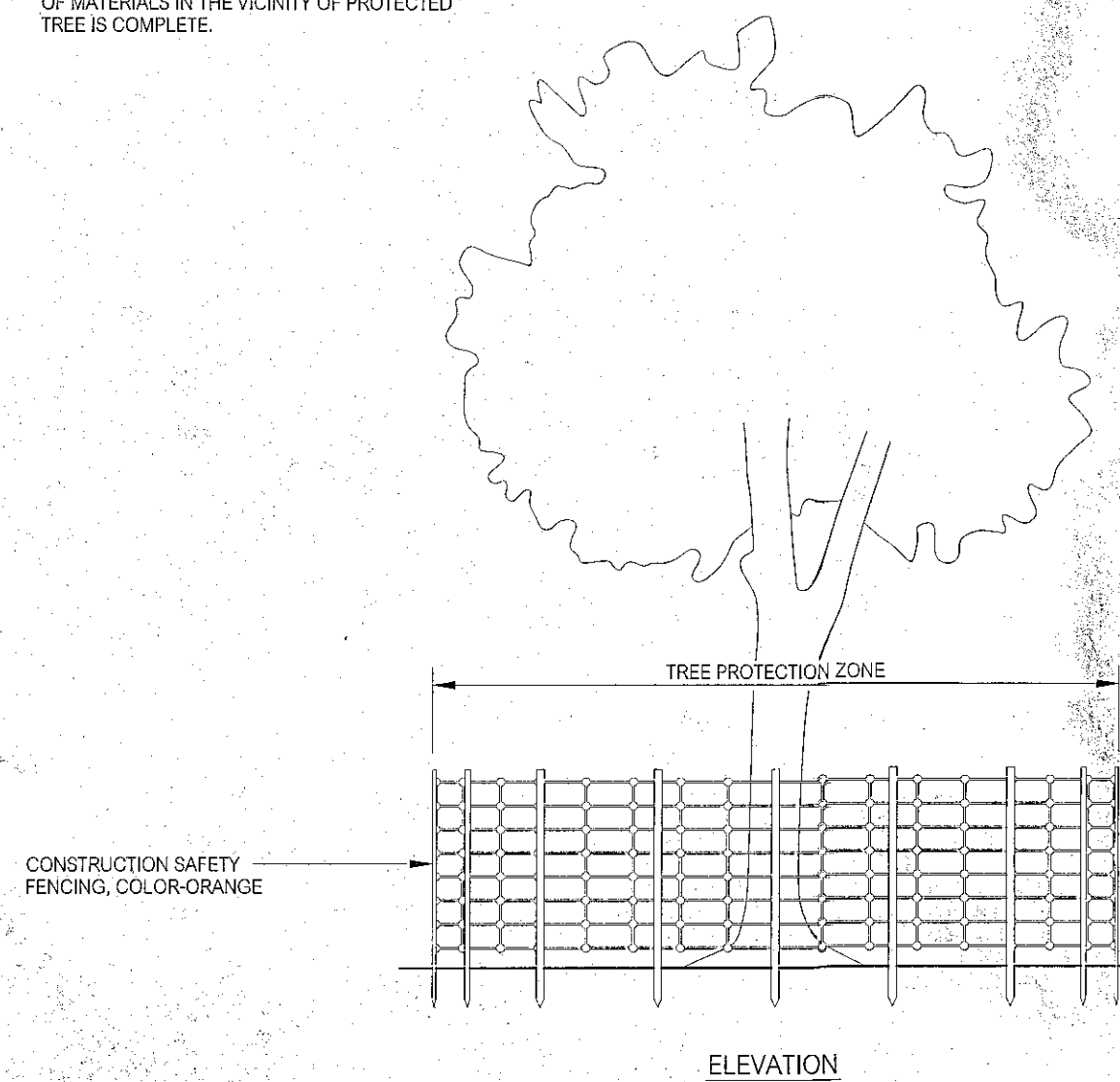
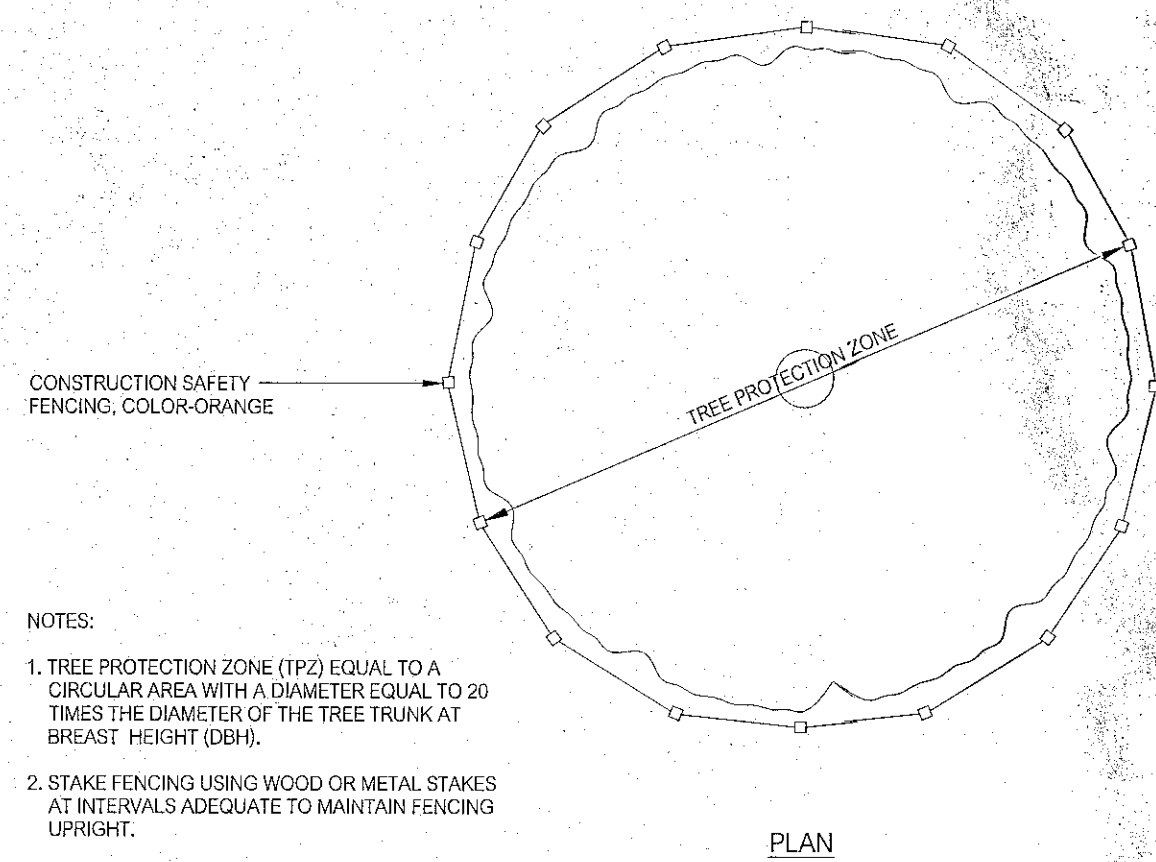
NO. DATE DESCRIPTION

Summer Hill
Civil Engineers & Land Surveyors, P.C.
60 Wall Street
P.O. Box 708
Madison, Connecticut 06443-0708
Telephone: (203) 245-0722

NOTES AND DETAILS

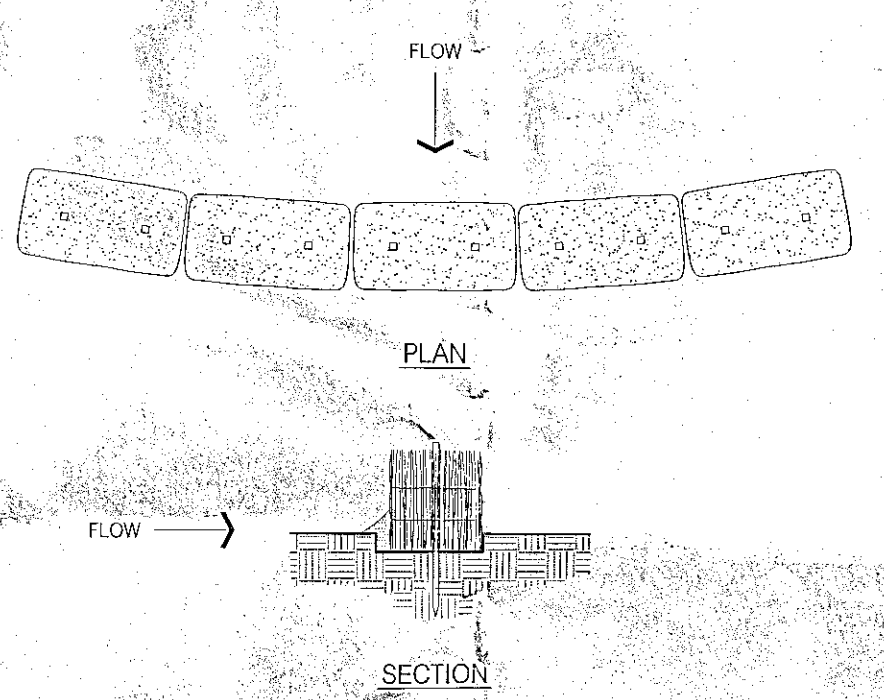
DATE	SCALE	SHEET NO.
5-1-18	AS NOTED	2 OF 4
DESIGNED BY: MJO	PROJECT NO.: 18-17	
CHECKED BY: LJM	FIELD BOOK:	





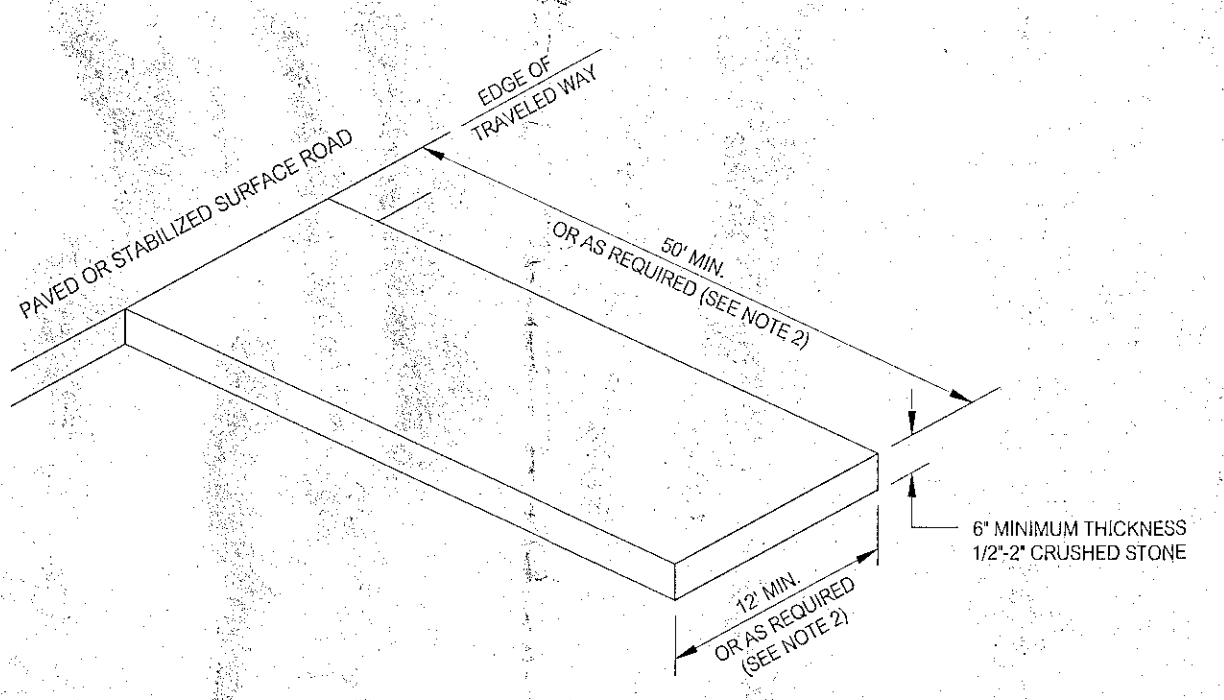
GSF GEOTEXTILE SILT FENCE
NOT TO SCALE

1. EXCAVATE 6" DEEP TRENCH FOR LENGTH OF THE FENCE.
 2. EXTEND 6" LENGTH OF GEOTEXTILE INTO TRENCH, BACKFILL AND COMPACT.
 3. AS AN ALTERNATE METHOD, EXTEND LENGTH OF GEOTEXTILE HORIZONTALLY ON EXISTING GROUND, RAMP SOIL OVER GEOTEXTILE AND COMPACT.
1. INSPECT FENCE AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2 INCH OR GREATER.
2. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.



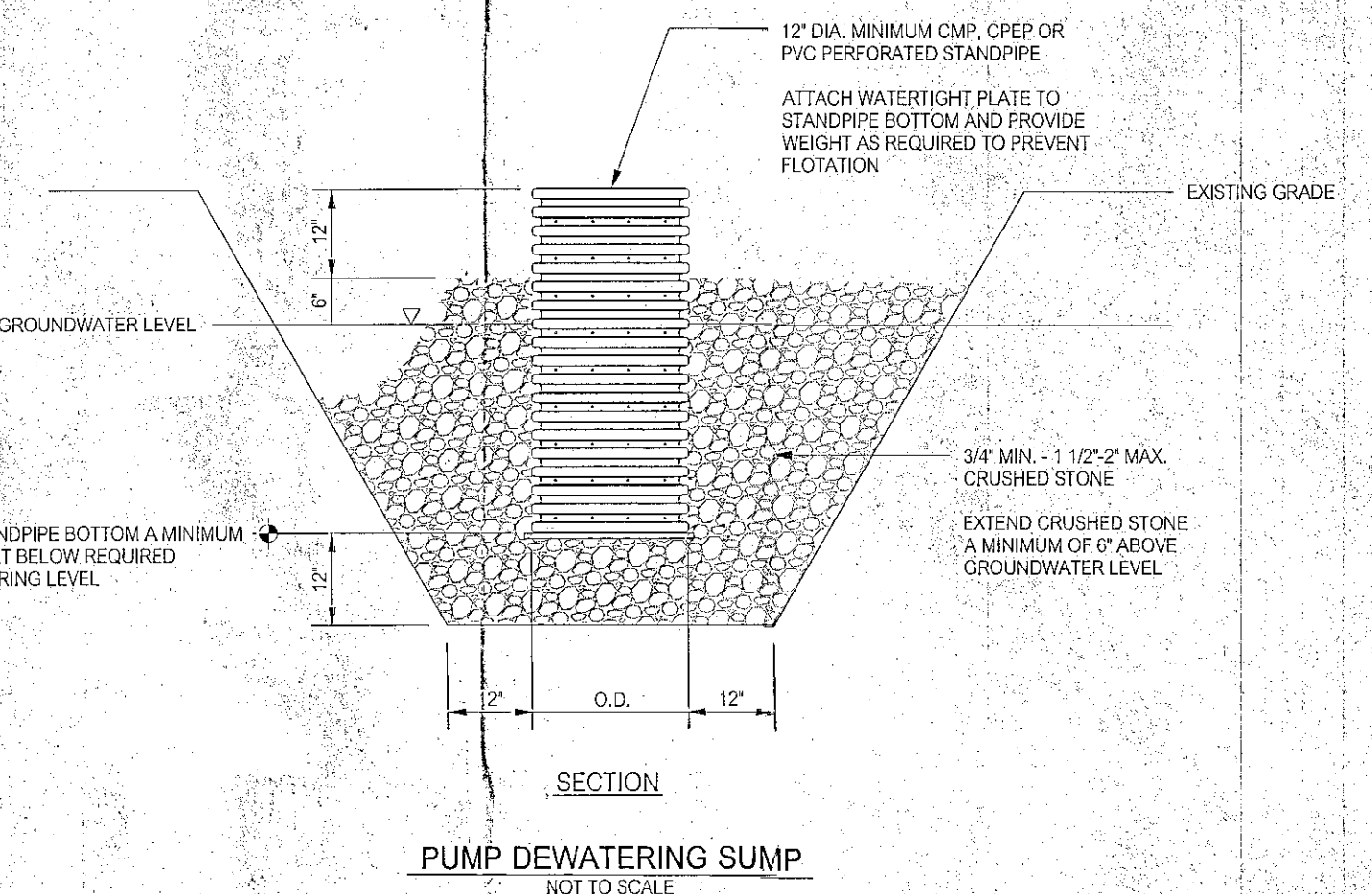
HB STRAW BALE BARRIER
NOT TO SCALE

1. EXCAVATE 4" DEEP TRENCH FOR LENGTH OF BALES.
 2. PLACE AND STAKE BALES, TWO (2) STAKES PER BALE.
 3. PLACE BALES SUCH THAT BINDINGS ARE ORIENTED AROUND THE SIDES OF BALES RATHER THAN ALONG THE TOP AND BOTTOM OF BALES.
 4. WEDGE LOOSE STRAW BETWEEN BALES.
 5. BACKFILL AND COMPACT THE EXCAVATED SOIL ON UPHILL SIDE OF BARRIER.
1. INSPECT BARRIER AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2 INCH OR GREATER.
2. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE BARRIER.



CE CONSTRUCTION ENTRANCE
NOT TO SCALE

- NOTES:
1. CLEAR AND GRUB AREA AND REMOVE TOPSOIL BEFORE PLACEMENT OF CRUSHED STONE LAYER. A GEOTEXTILE MAY BE REQUIRED TO STRENGTHEN SUBGRADE SOILS AND TO PREVENT STONE MOVEMENT AND LOSS OF VOIDS WITHIN THE STONE ENTRANCE WHERE REQUIRED.
 2. LENGTH OF ENTRANCE MAY BE LIMITED BY SITE CONDITIONS. PROVIDE ADEQUATE WIDTH OF ENTRANCE AT ROAD INTERSECTION TO ACCOMMODATE THE TURNING MOVEMENTS OF CONSTRUCTION VEHICLES.
 3. MAINTAIN ENTRANCE SO AS TO PREVENT TRACKING OR WASHING OF SEDIMENT ONTO ROAD. SEDIMENT THAT MAY BE TRACKED OR OTHERWISE DEPOSITED WITHIN THE ROAD SHALL BE REMOVED IMMEDIATELY.
 4. MAINTENANCE MAY INCLUDE THE REQUIREMENT FOR TOP DRESSING THE CRUSHED STONE LAYER OR REPLACING THE FULL DEPTH OF THE CRUSHED STONE LAYER.
 5. SHOULD SITE CONDITIONS BE SUCH THAT SOIL CANNOT BE REMOVED BY VEHICLES TRAVELING OVER THE ENTRANCE, THE TIRES OF VEHICLES MAY HAVE TO BE WASHED PRIOR TO VEHICLES ENTERING THE ROAD. ALL WASH WATER SHALL BE DIRECTED THROUGH AN APPROVED SEDIMENT FILTER OR TO A SEDIMENT BASIN.



EROSION AND SEDIMENT CONTROL NOTES:

A. PROJECT NARRATIVE

THE PROJECT CONSISTS OF THE CONSTRUCTION OF A 3,450 SQUARE FOOT FOOTPRINT SINGLE FAMILY RESIDENCE AND 1,152 SQUARE FOOT FOOTPRINT DETACHED BARN STRUCTURE, AND ASSOCIATED IN-GROUND SWIMMING POOL, PATIO, PAVILION, DRIVEWAY INCLUDING WATERCOURSE CROSSING, SUBSURFACE SEWAGE DISPOSAL SYSTEM, UTILITY SERVICES, STONE MASONRY WALLS, AND LANDSCAPING.

THE WORK ASSOCIATED WITH THE PROJECT INCLUDES EROSION AND SEDIMENT CONTROL, CLEARING AND GRUBBING, BUILDING DEMOLITION, EXCAVATION, CAST-IN-PLACE CONCRETE, STONE MASONRY, CULVERT, TRENCHING, BACKFILLING, GRADING, BUILDING, SUBSURFACE SEWAGE DISPOSAL SYSTEM, UTILITY, DRIVEWAY, LANDSCAPE AND TURF ESTABLISHMENT CONSTRUCTION.

THE TOTAL AREA OF LAND DISTURBANCE ASSOCIATED WITH THE COMPLETE PROJECT CONSTRUCTION ACTIVITIES IS APPROXIMATELY 1.0 ACRE.

THE SOILS ON THE PROJECT SITE ARE IDENTIFIED IN THE NATIONAL COOPERATIVE SOIL SURVEY DATA FOR CONNECTICUT AS SUBURB SANDY LOAM (23) AND AGAWAM FINE SANDY LOAM (29). THESE SOIL TYPES ARE CLASSIFIED AS MODERATELY WELL DRAINED AND WELL DRAINED RESPECTIVELY.

THE PROJECT SITE IS LOCATED WITHIN THE CONNECTICUT RIVER SUBREGIONAL DRAINAGE BASIN (BASIN IDENTIFICATION NUMBER 4000).

PROJECT LOCATION:

THE PROJECT IS LOCATED ON A 1.66 ACRE LAND PARCEL LOCATED AT 21 GROVE STREET IN THE CENTRAL EASTERN PORTION OF THE TOWN OF ESSEX.

PROJECT OWNER:

PARK ENTERPRISES, LLC
652 BOSTON POST ROAD, SUITE 1
GUILFORD, CONNECTICUT 06437
TEL: (203) 453-5303

CONTACT PERSON:

MICHAEL J. OTT, P.E., L.S.
SUMMER HILL CIVIL ENGINEERS & LAND SURVEYORS, P.C.
60 WALL STREET, P.O. BOX 708
MADISON, CONNECTICUT 06443-0708
TEL: (203) 245-0722
FAX: (203) 245-0722

PERMIT REQUIREMENTS:

THE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE PROJECT ARE SUBJECT TO THE REQUIREMENTS OF THE APPROVAL AND PERMIT GRANTED BY THE TOWN OF ESSEX INLAND WETLANDS AND WATERCOURSES COMMISSION AND APPROVALS AND PERMITS ISSUED BY THE TOWN OF ESSEX LAND USE, BUILDING, AND HEALTH DEPARTMENTS.

CONSTRUCTION SCHEDULE AND SEQUENCE:

THE PLANNED START DATE FOR THE PROJECT IS SUMMER 2018. IT IS ANTICIPATED THAT THE DURATION OF CONSTRUCTION WILL BE APPROXIMATELY TEN MONTHS.

THE GENERAL SEQUENCE OF SITE WORK CONSTRUCTION ACTIVITIES WILL BE AS FOLLOWS:

1. EQUIPMENT MOBILIZATION.
2. INSTALLATION OF EROSION AND SEDIMENT CONTROLS.
3. SITE PREPARATION INCLUDING CLEARING AND GRUBBING AND BUILDING DEMOLITION.
4. DRIVEWAY CULVERT CONSTRUCTION.
5. EXCAVATION AND GRADING OPERATIONS.
6. BUILDING FOUNDATION CONSTRUCTION.
7. SUBSURFACE SEWAGE DISPOSAL SYSTEM CONSTRUCTION.
8. BUILDING UTILITY SERVICES CONSTRUCTION.
9. DRIVEWAY CONSTRUCTION.
10. LANDSCAPE CONSTRUCTION.
11. TOPSOIL PLACEMENT AND TURF ESTABLISHMENT.
12. RESTORATION OF DISTURBED AREAS.
13. FINAL CLEAN UP AND REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROLS.

B. EROSION AND SEDIMENT CONTROL STANDARDS AND RESPONSIBILITIES

THE MINIMUM STANDARDS FOR ALL EROSION AND SEDIMENT CONTROLS SHALL BE THOSE OUTLINED IN THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL". LATEST REVISION. ALTERNATIVE MEASURES, METHODS, MEANS, AND TECHNIQUES MAY BE ALLOWED WITH THE PRIOR APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL REFERENCE THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" FOR SPECIFIC DESIGN CRITERIA, CONSTRUCTION DETAILS, AND MAINTENANCE REQUIREMENTS FOR THE MINIMUM STANDARDS FOR ALL EROSION AND SEDIMENT CONTROLS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION, OPERATION, MONITORING, AND MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROLS FOR THE PROJECT.

C. CONTINGENCY PLAN

A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE CONTACT PERSON DESIGNATED HEREIN WITH THE NAMES AND TELEPHONE NUMBERS OF THE RESPONSIBLE PERSON(S) TO BE CONTACTED IN THE EVENT OF AN EROSION AND/OR SEDIMENTATION PROBLEM.

THE CONTRACTOR SHALL AT ALL TIMES KEEP SUFFICIENT ADDITIONAL GEOTEXTILE SILT FENCE AND/OR STRAW BALE BARRIER ON THE PROJECT SITE TO CONTROL UNPREDSEEN EROSION AND/OR SEDIMENTATION PROBLEMS. IN THE EVENT OF A PROBLEM, THE CONTRACTOR SHALL PROMPTLY STABILIZE THE PROBLEM AND CONTAIN ANY SEDIMENT AND THEN NOTIFY THE TOWN OF ESSEX LAND USE DEPARTMENT (860-767-4500).

D. GENERAL GUIDELINES:

1. PRIOR TO THE START OF WORK, INSTALL EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE DRAWINGS OR AS ORDERED BY THE ENGINEER.
2. ALL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED CONTINUOUSLY AND INSPECTED ON A PERIODIC BASIS AS DEFINED IN THE GUIDELINES FOR EACH TYPE OF CONTROL, AND SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. IN ADDITION, ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED PRIOR TO AND DURING MAJOR RAINFALL EVENTS.
3. LIMIT THE DISTURBANCE OF LAND TO THE LIMITS OF DISTURBANCE REQUIRED TO ACCOMPLISH THE WORK SHOWN ON THE DRAWINGS. WHERE PRACTICABLE, PLAN CONSTRUCTION OPERATIONS SO AS TO LIMIT THE AREAS OF EXPOSED SOIL TO AREAS ACTIVELY UNDER CONSTRUCTION. TAKE REASONABLE CARE TO LIMIT THE PERIOD OF EXPOSURE OF DISTURBED AREAS AND INSTALL PERMANENT VEGETATIVE MEASURES AS SOON AS IS PRACTICABLE.
4. PRESERVE EXISTING VEGETATION WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THE DRAWINGS TO BE PRESERVED AND TAKE REASONABLE CARE TO PROTECT SUCH EXISTING VEGETATION.
5. WATER FROM DEWATERING OPERATIONS SHALL NOT BE DISCHARGED DIRECTLY TO ANY WETLAND OR WATERCOURSE. SUCH WATER SHALL BE DISCHARGED TO AN APPROVED SEDIMENT BASIN AND/OR FILTER DEVICE, OR TO A STORM DRAINAGE SYSTEM ONLY WHEN APPROVED.
6. ADEQUATE PROVISIONS SHALL BE TAKEN TO PROTECT ALL EXPOSED CUT AND FILL SLOPES FROM SURFACE WATER FLOW DAMAGE AND EROSION.
7. BE RESPONSIBLE FOR THE CONTROL OF DUST AND OTHER PARTICULATE MATTER RESULTING FROM CONSTRUCTION OPERATIONS.
8. TEMPORARY MATERIAL STOCKPILES SHALL BE PROTECTED FROM BOTH WATER AND WIND INDUCED EROSION.

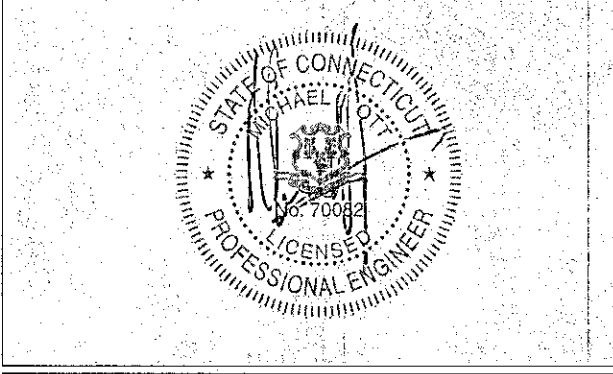
SITE DEVELOPMENT PLANS
LAND
OF
LINDA H. BRYNES & JOSEPH BRYNES
21 GROVE STREET
ESSEX, CONNECTICUT

PERMIT DRAWINGS

NO.	DATE	DESCRIPTION
2-15-21		LEACHING FIELD, BARN LOCATION
9-24-18		HEALTH DEPARTMENT REVIEW COMMENTS
6-1-18		EWCC CONDITIONS OF APPROVAL
6-1-18		MISCELLANEOUS

REVISIONS

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60 Wall Street
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Madison, Connecticut 06443-0708
Telephone: (203) 245-0722



DETAILS

DATE:	SCALE:	SHEET NO.:
6-1-18	AS NOTED	4 OF 4
DESIGNED: MJO	PROJECT NO.:	
CHECKED: LJM	FILED BOOK:	