

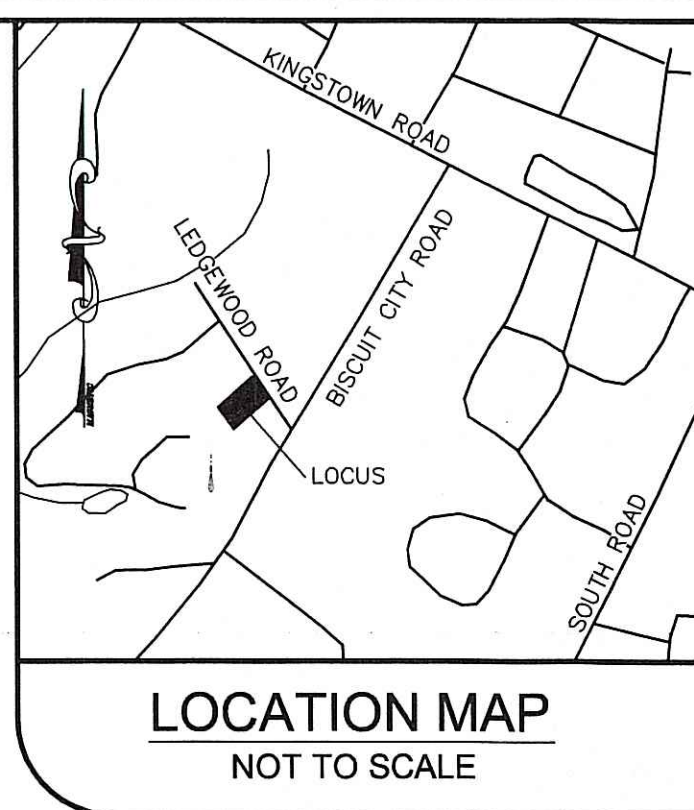
CONSTRUCTION NOTES:

1. APPLICANT IS REQUIRED TO NOTIFY DESIGNER OF INTENTION TO START CONSTRUCTION AT LEAST 10 DAYS PRIOR TO START OF SITE WORK. CONTRACTOR'S AND INSTALLER'S TELEPHONE NUMBERS, AND NAME AND INSTALLER'S LICENSE NUMBER ARE TO BE PROVIDED TO THE DESIGNER AT THIS TIME.
2. THE INSTALLER SHALL PROVIDE THE FOLLOWING:
 - 24 HOUR NOTICE OF START OF CONSTRUCTION.
 - INSPECTION OF BOTTOM OF BED OR COVER REQUIRING RIDEM REVIEW IS TO BE CALLED INTO DESIGNER BEFORE NOON ON THE DAY PRIOR TO THE REQUIRED INSPECTION.
 - ALL RIDEM INSPECTION SHEETS ARE TO BE FAXED TO DESIGNER OFFICE WITHIN 24 HOURS OF RIDEM INSPECTION.
3. SITE LAYOUT AND REQUIRED INSPECTIONS TO BE MADE BY DESIGNER FOR THE FOLLOWING WORK ITEMS:
 - FOUNDATION AND ISDS LOCATION AND ELEVATION.
 - INSPECTION OF ISDS BOTTOM OF LEACH AREA.
 - INSPECTION OF ISDS COMPONENTS & FILL PERIMETER.
 - FINAL COVER AND WELL/ WATER SERVICE LOCATION INSPECTION.
4. THE APPLICANT SHALL BE RESPONSIBLE FOR REVIEWING ANY PROPOSED CHANGES TO THE INSTALLATION WITH THE DESIGNER PRIOR TO COMPLETING WORK. ANY CHANGES IN THE DESIGN DURING INSTALLATION WILL BE THE RESPONSIBILITY OF THE APPLICANT AND MAY INCLUDE ANY OF THE FOLLOWING:
 - NEW APPLICATION FOR REDESIGN OF ISDS
 - AS-BUILT LOCATION PLANS
 - COMMUNICATION AND COORDINATION WITH RIDEM STAFF.
 - REINSTALLATION OF SYSTEM TO MEET RIDEM CRITERIA.
5. THE INSTALLER/APPLICANT SHALL PROVIDE THE DESIGNER WITH MATERIALS SHEETS FOR ALL CONSTRUCTION MATERIALS PRIOR TO DESIGNER ISSUING CERTIFICATE OF CONSTRUCTION.
6. THE APPLICANT SHALL FURNISH THE ORIGINAL APPLICATION (PINK COPY) TO THE INSTALLER PRIOR TO START OF CONSTRUCTION. APPLICATION TO REMAIN ON SITE DURING CONSTRUCTION, AND BE RETURNED TO OWNER FOLLOWING INSTALLATION.

SOIL CATEGORY 7 - 2.8 GAL./S.F./DAY LOADING	
T.P.#1 ELEV.	172.50
38" W.T.	-3.17
W.T.	169.33
	+3.00
MIN TOP OF SAND	172.33
HIGH POINT OF BSF ELEV.	174.50
38" W.T.	-3.17
W.T. ELEV.	171.58
	+3.00
DESIGN TOP OF SAND	174.58
3 BEDROOMS x 150 GPD = 450 GPD	
450 GPD/2.8 = 160.7 S.F. MIN.	
10 x 17 = 170 S.F. BOTTOMLESS SAND FILTER	
DESIGN 2.6 GAL./S.F./DAY LOADING	

GENERAL NOTES:

1. TOPOGRAPHIC AND LOCATION INFORMATION FROM A FIELD SURVEY BY CARRIGAN ENGINEERING, INC. DATUM IS ASSUMED BASED ON TOWN OF SOUTH KINGSTOWN TOPOGRAPHIC BASE MAPS.
 2. DEPICTED BOUNDARY INFORMATION COMPLIES WITH A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF PROFESSIONAL REGISTRATION FOR LAND SURVEYORS.
 3. WETLAND FLAGGING BY NATURAL RESOURCE SERVICES, INC.
 4. DEPICTED UTILITY INFORMATION FROM PLANS PROVIDED BY KINGSTON WATER DISTRICT.
- 100-YEAR FLOOD PLAIN DETERMINATION:**
1. THE DEPICTED 100-YEAR FLOOD PLAIN ON THE SUBJECT PROJECT SITE WAS DETERMINED BY THE REPORT TITLED "LEDGEWOOD DRIVE - 100-YEAR WATER ELEVATION CALCULATIONS" PREPARED BY CARRIGAN ENGINEERING, INC. DATED 5/4/06.
 2. THE PROPOSED SITE IMPROVEMENTS SHOWN ON THESE PLANS ARE ABOVE AND OUTSIDE THE LIMITS OF THE 100-YEAR FLOOD PLAIN LINE AND ELEVATION OF THE INTERMITTENT STREAM FLOWING ACROSS THE SITE, AND THE 100-YEAR FLOOD PLAIN WILL NOT BE ADVERSELY IMPACTED BY THE PROPOSED DEVELOPMENT.
- SOIL EROSION & SEDIMENT CONTROL NOTES:**
1. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL SOIL EROSION AND SEDIMENT CONTROL (SESC) MEASURES PRIOR TO THE BEGINNING OF CONSTRUCTION.
 2. THE CONTRACTOR SHALL INSPECT THE SESC MEASURES ON A WEEKLY BASIS, AS WELL AS AFTER EVERY MAJOR RAINFALL EVENT, AND SHALL REPAIR OR REPLACE THESE MEASURES IMMEDIATELY IF THEY ARE FOUND TO BE DAMAGED.
 3. AS NOTED IN THE "SILT FENCE" DETAIL, SEDIMENT AND/OR DEBRIS ACCUMULATIONS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
 4. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE SESC MEASURES SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES ON THE SITE ARE COMPLETE, AND THE SITE IS PROPERLY STABILIZED AND RESEEDED/REPLANTED.



CONSTRUCTION SPECIFICATIONS:

GENERAL NOTES:

- 1.) ALL DESIGN, CONSTRUCTION, AND MAINTENANCE TO BE IN CONFORMANCE WITH THE "RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF INDIVIDUAL SEWAGE DISPOSAL SYSTEMS, STATE OF R.I., DEPARTMENT OF ENVIRONMENTAL MANAGEMENT" AS AMEND.
- 2.) PROPOSED TOP OF FOUNDATION ELEVATION IS DIRECTLY RELATED TO INSTALLATION AND FUNCTIONING OF DISPOSAL SYSTEM AND SHOULD NOT BE CHANGED WITHOUT FIRST CONSULTING DESIGNER.
- 3.) EXACT PROPERTY LINE SHOULD BE ESTABLISHED PRIOR TO INSTALLATION OF SYSTEM.
- 4.) ALL PIPING MUST BE SDR 35 PVC UNLESS NOTED OTHERWISE.
- 5.) NO SUBSURFACE DRAINAGE MAY BE LOCATED WITHIN 25' OF SYSTEM.
- 6.) THERE IS NO WATERCOURSE OR WETLAND AREA WITHIN 200' OF SYSTEM UNLESS SHOWN ON PLAN.
- 7.) CLEAR ALL TREES AND STUMPS WITHIN 10' OF SYSTEM.
- 8.) THERE ARE NO EXISTING OR PROPOSED DRAINS WITHIN 200' OF SYSTEM UNLESS SHOWN ON PLAN.

SEPTIC TANK

- 1.) THE BUILDING SEWER FROM FOUNDATION TO SEPTIC TANK SHALL BE LAID WITH NO ANGLES GREATER THAN 45°.
- 2.) MAINTAIN INVERT ELEVATION FOR 10' MINIMUM AROUND SEPTIC TANK.
- 3.) BUILDING SEWER SHALL BE 4" SCHEDULE 40 PVC OR EQUAL.

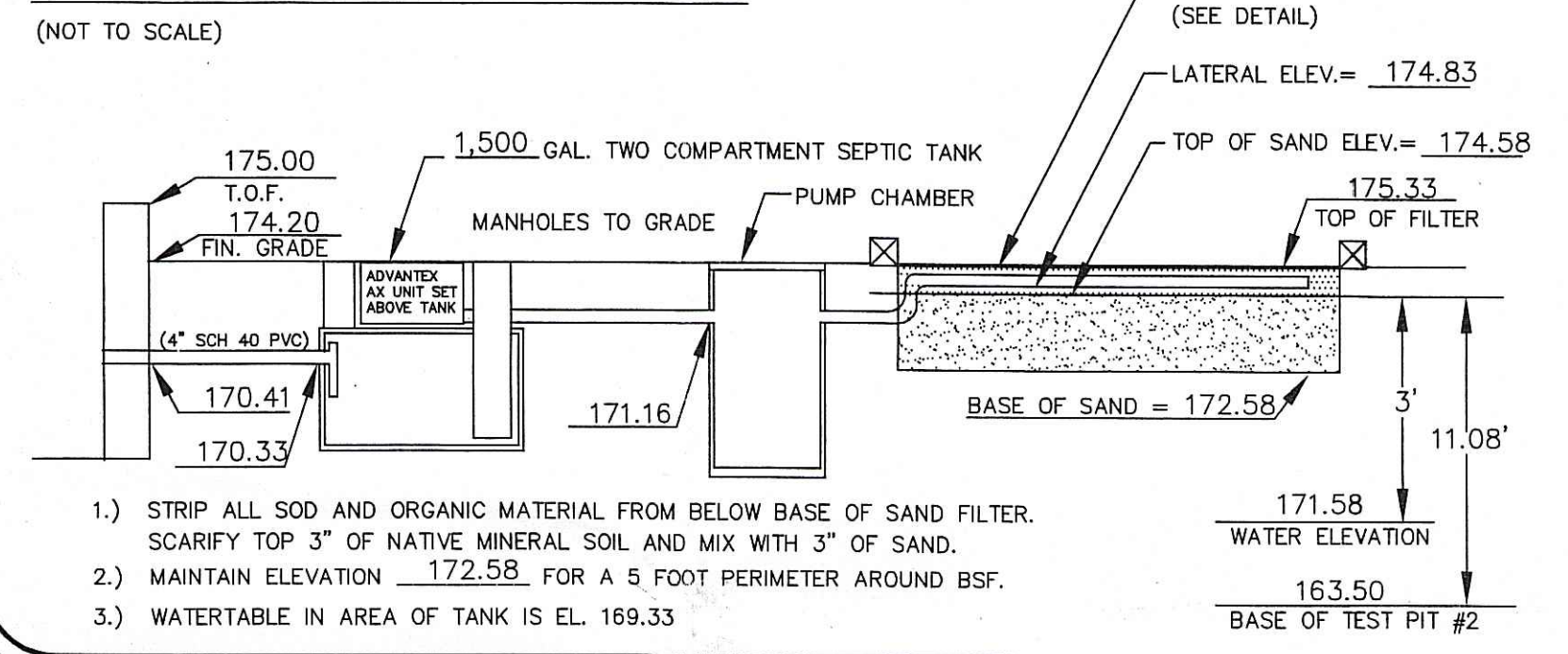
PRIVATE WATER SUPPLY:

- 1.) THERE ARE NO EXISTING OR PROPOSED WELLS WITHIN 200' OF SYSTEM OTHER THAN SPECIFIED ON PLAN.
- 2.) THERE ARE NO EXISTING OR PROPOSED SEEPAGE SYSTEMS WITHIN 100' OF PROPOSED WELL.
- 3.) PROPOSED WELL TO BE INSTALLED 100' MINIMUM FROM ANY SEEPAGE SYSTEM.
- 4.) THERE ARE NO EXISTING OR PROPOSED PUBLIC WELLS WITHIN 500' OF PROPOSED SYSTEM.
- 5.) PROPOSED WELL MUST BE LOCATED 75' MINIMUM FROM SEPTIC TANK AND DISTRIBUTION BOX.
- 6.) PROPOSED WELL MUST BE LOCATED 50' MINIMUM FROM ANY PUBLIC ROADWAY.

PUBLIC WATER SERVICE:

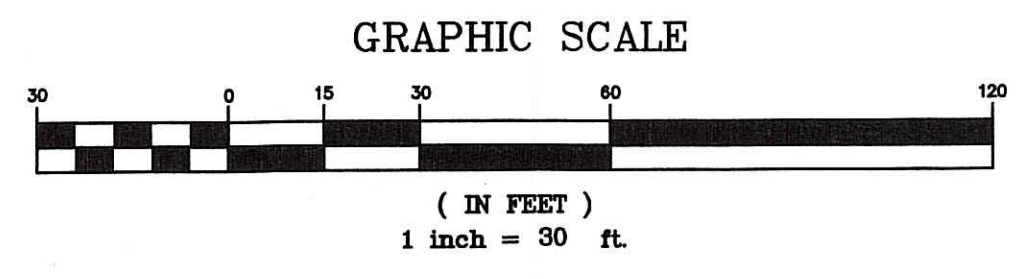
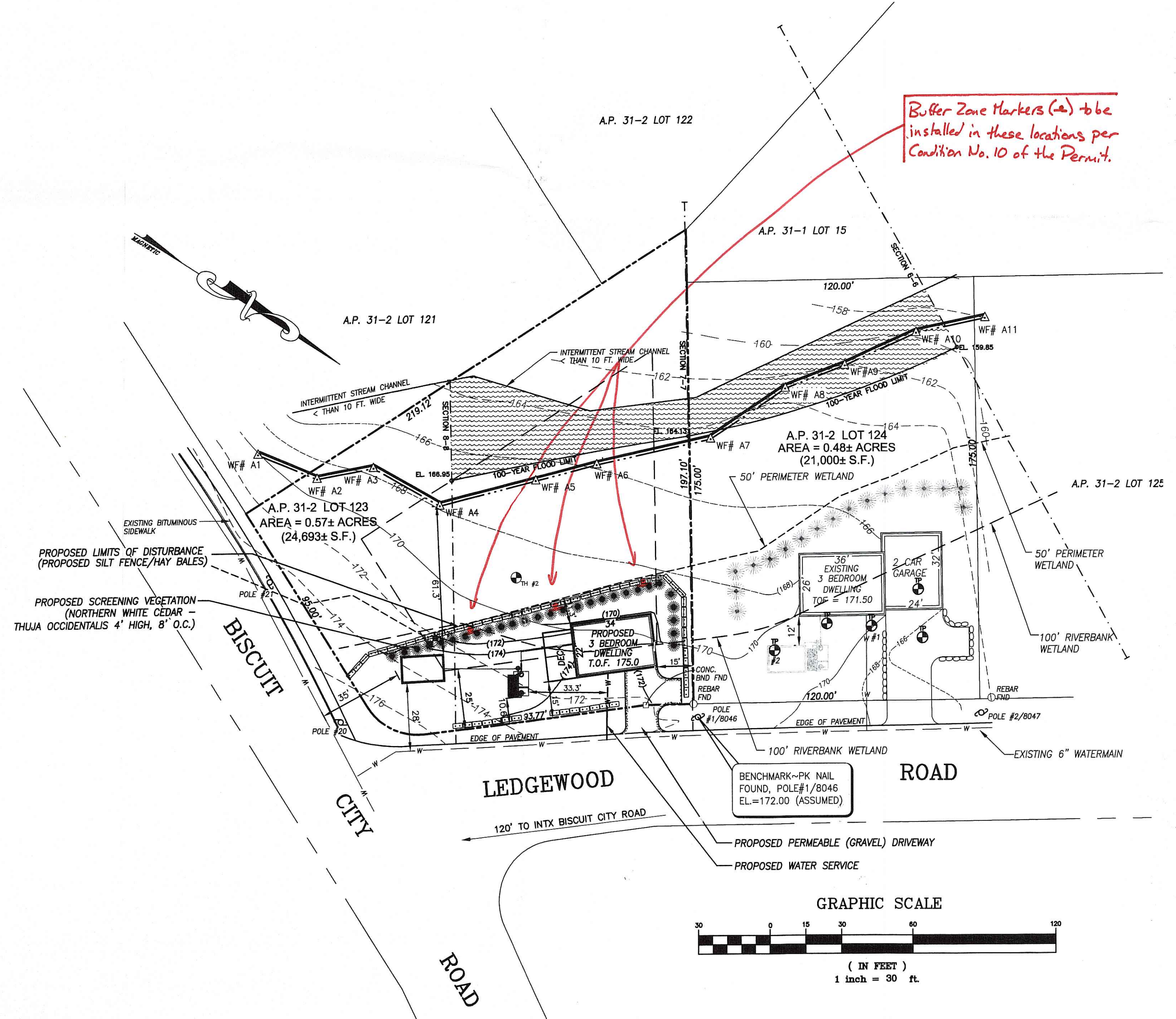
- 1.) MAINTAIN 25' MINIMUM FROM WATER SERVICE TO SEEPAGE SYSTEM.

TYPICAL SYSTEM PROFILE



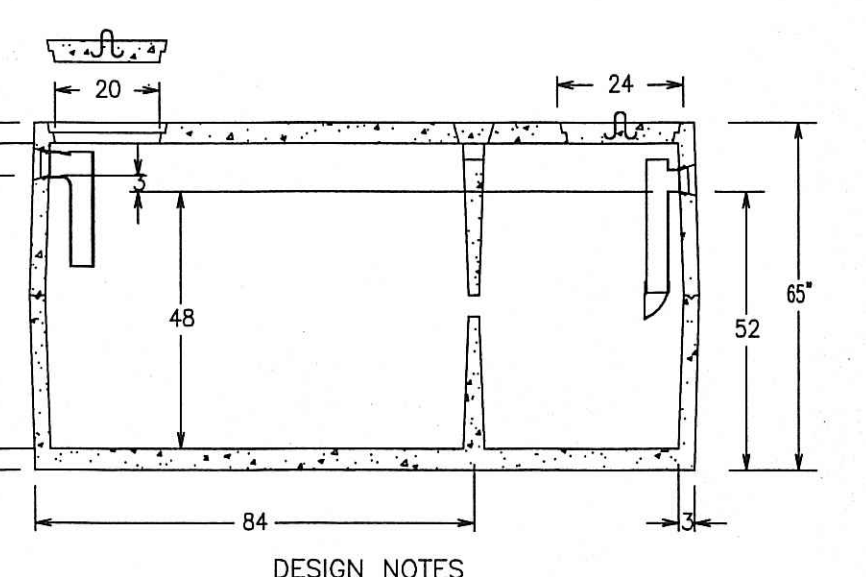
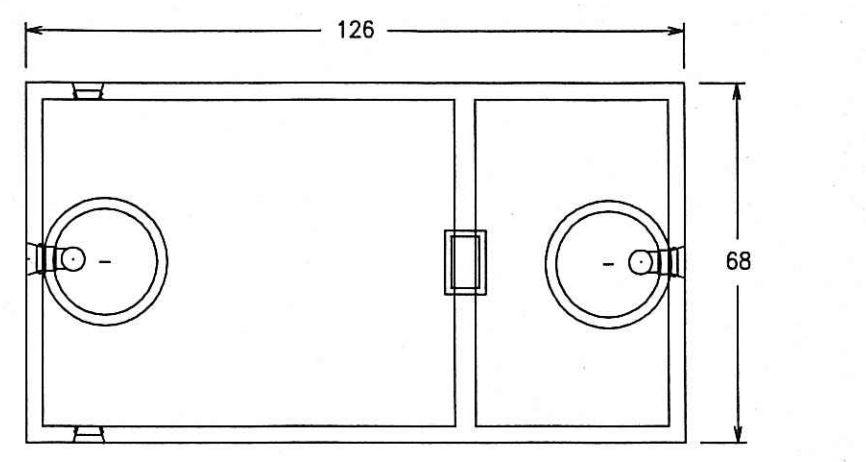
PROVIDE TELEPHONE LINE CONNECTION TO ADVANTEX AX UNIT CONTROL PANEL

Buffer Zone Markers (a) to be installed in these locations per Condition No. 10 of the Permit.

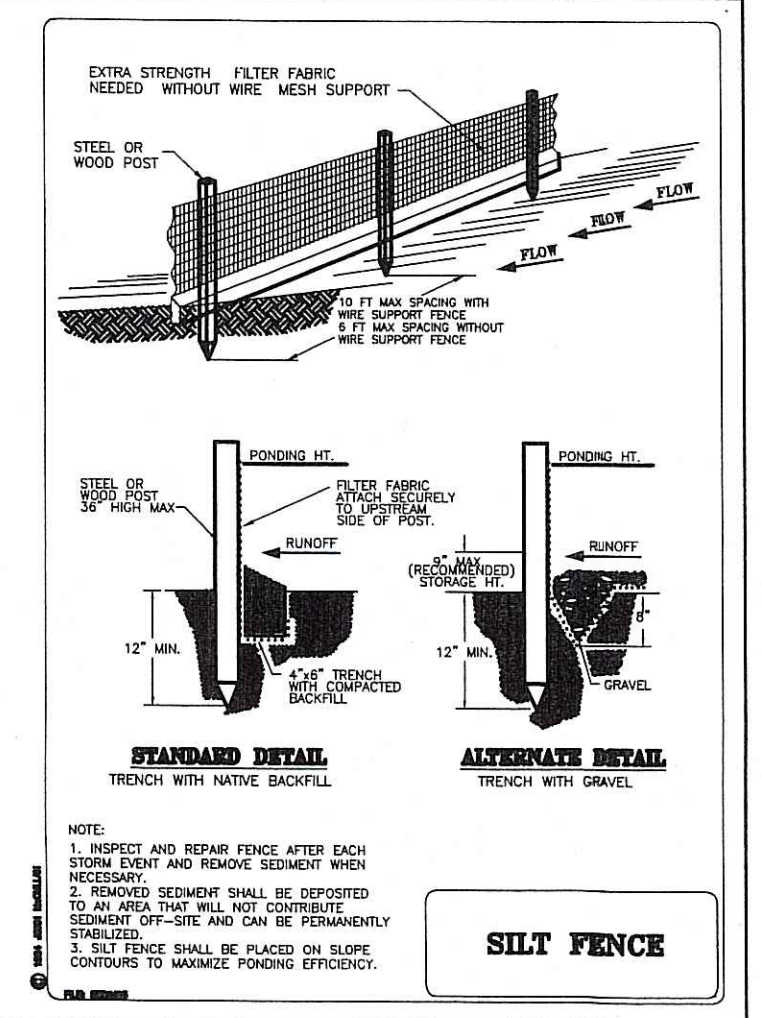
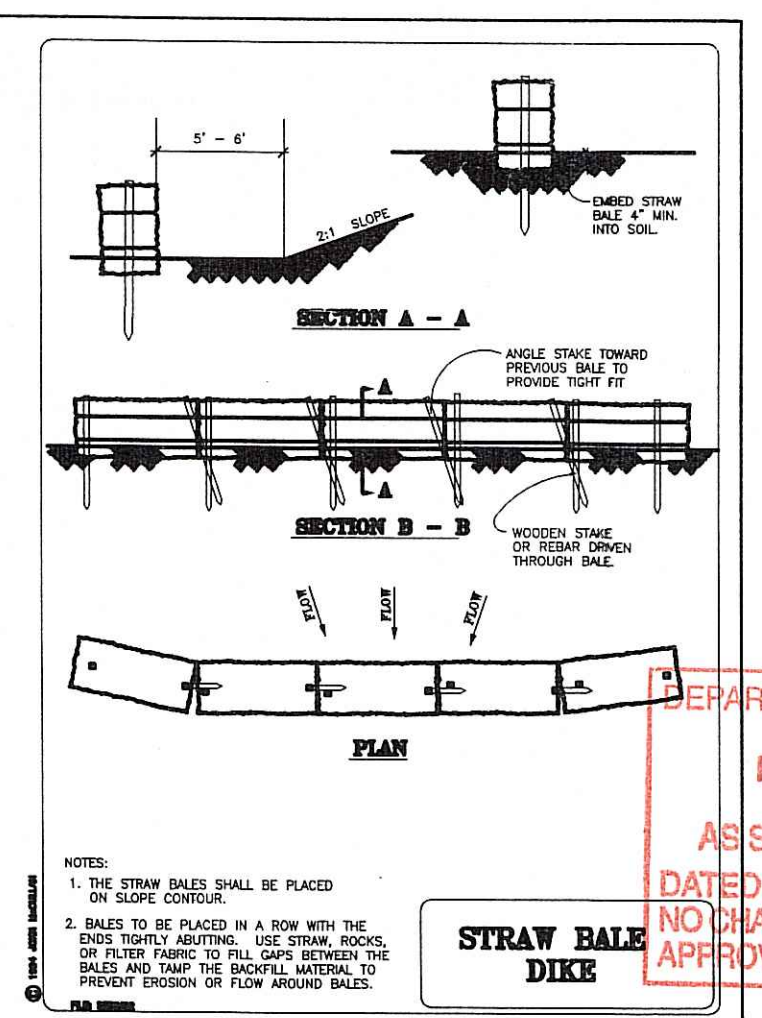


1500 GALLON TWO COMPARTMENT SEPTIC TANK

SEE OTHER TANK DETAILS ON SECOND PAGE



JOLLEY PRECAST, INC. 860-774-9066



PROPOSED ISDS PLAN

ASSESSOR'S PLAT 31-2 LOT 123
LEDGEWOOD ROAD
SOUTH KINGSTOWN, RHODE ISLAND

PREPARED FOR: TRI-LEVEL CONSTRUCTION CO., INC.
SCALE: AS NOTED DATE: 08/17/04 SHEET 1 OF 3

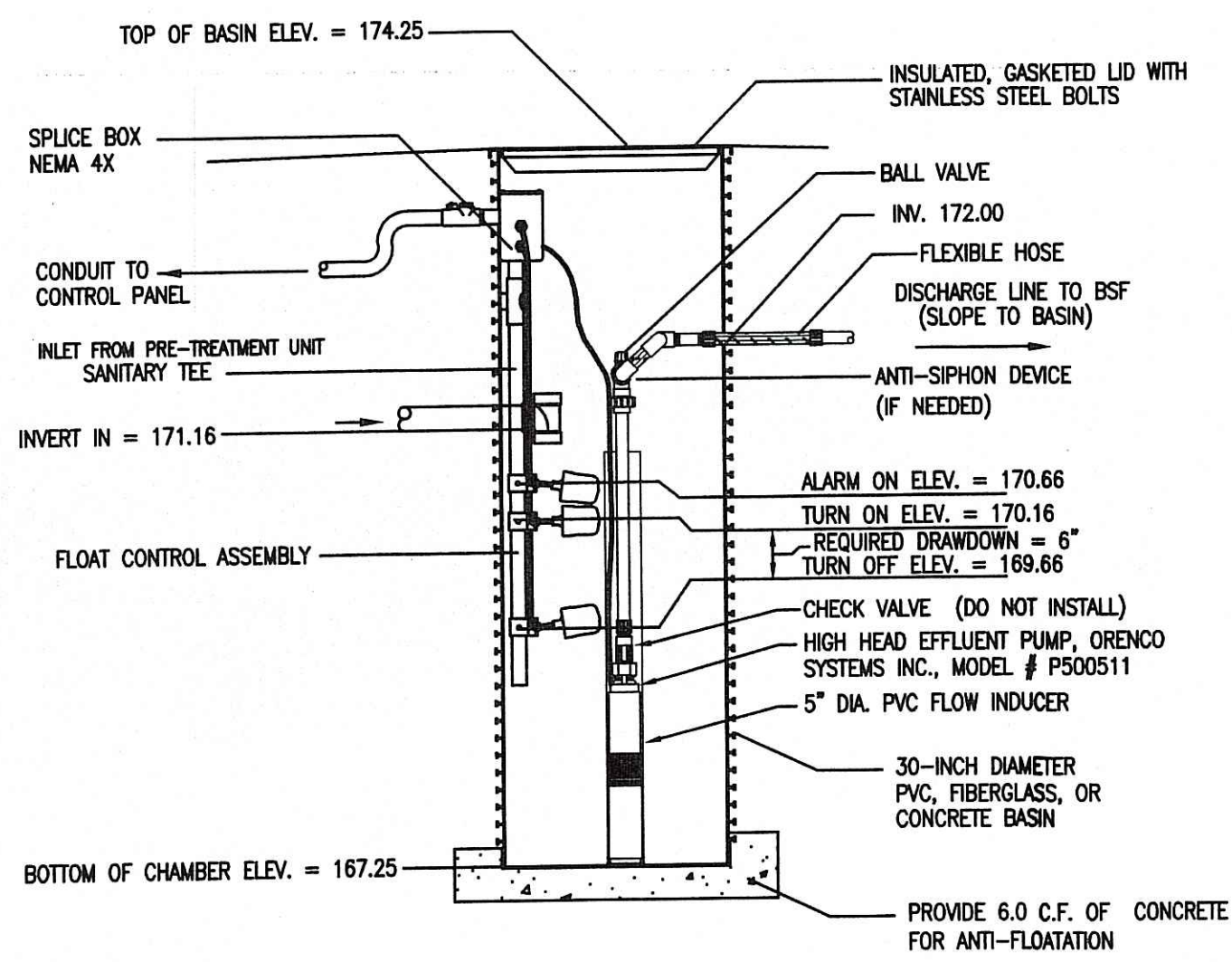
REVISIONS:

NO.	DATE	DESCRIPTION	BY
4	10/23/08	OWNERS COMMENTS	G-EB
3	2/20/07	T.S.K. COMMENTS	MZ
2	5/14/06	RIDEM ENGINEERING COMMENTS	MZ
1	1/6/06	100-YEAR FLOOD ELEVATION	MZ



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 11 2009
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT THIS LOCATION

CARRIGAN ENGINEERING INC.
CIVIL AND ENVIRONMENTAL ENGINEERING
140 POINT JUDITH ROAD
UNIT #3 MARINER SQUARE
NARRAGANSETT, RI 02882
PHONE: (401) 789-6865
FAX: (401) 789-2053



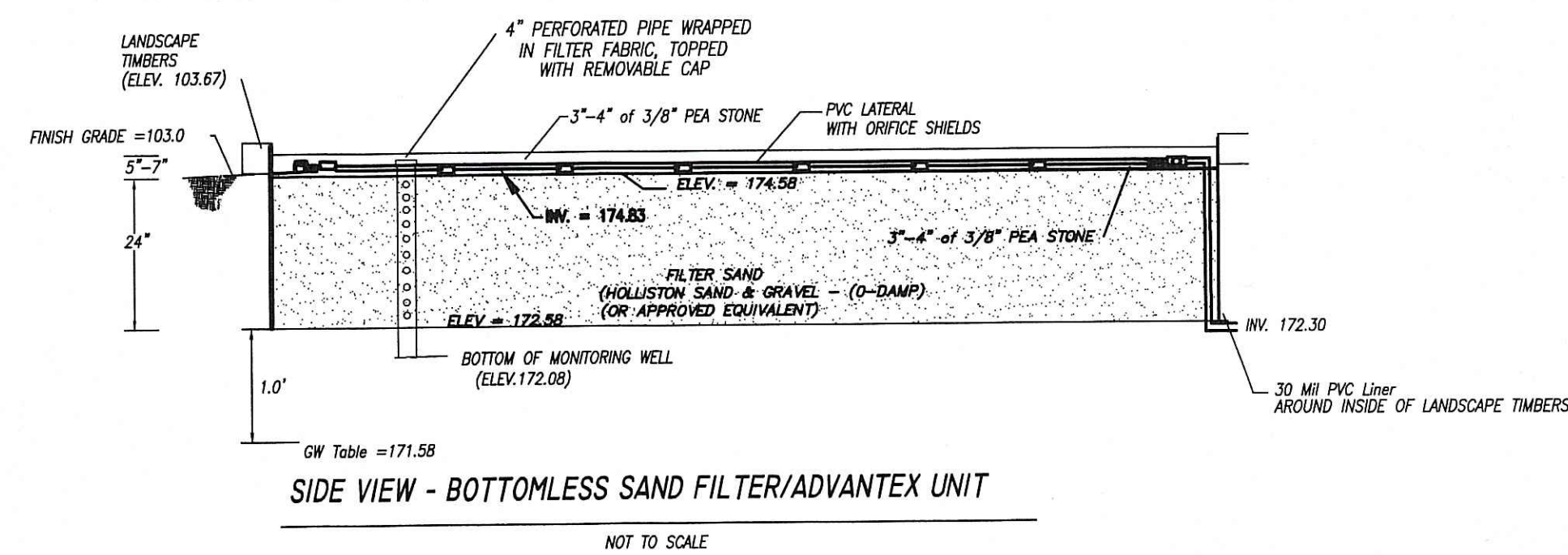
SIMPLEX PUMP STATION DETAIL
NOT TO SCALE

CONTROL PANEL NOTES:

- THE CONTROL PANEL SHALL HAVE AUDIBLE AND VISUAL ALARMS ON THE PUMPS CONTROLLING THE DOSING TO BOTH THE ADVANTEX AND THE B.S.F.
- THE AUDIBLE ALARM SHALL HAVE A PUSH TO SILENCE BUTTON ON THE OUTSIDE OF THE UNIT.
- THE PUSH TO SILENCE BUTTON SHALL ALSO BE THE VISUAL ALARM AND SHALL NOT BE TURNED OFF BY PUSHING ON IT BUT RATHER BY SERVICING THE SEPTIC SYSTEM AND CORRECTING THE ANOMALY.
- THE ALARM SHALL BE SET TO RESET ITSELF IN THE EVENT OF A TEMPORARY HIGH WATER SITUATION.

BOTTOMLESS SAND FILTER PROFILE

Slope entire transport line to drain back into pump chamber.



CONSTRUCTION NOTES:

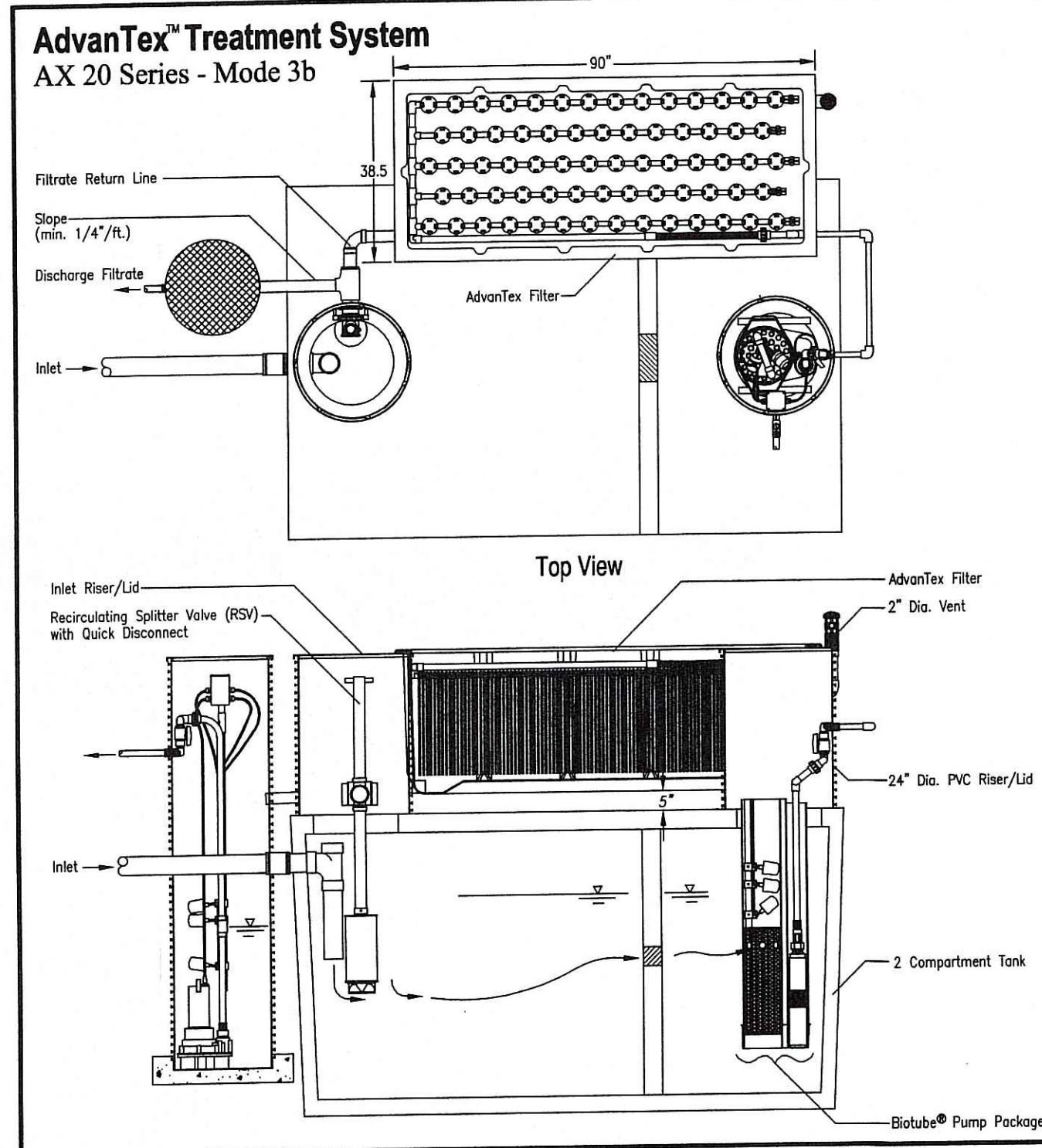
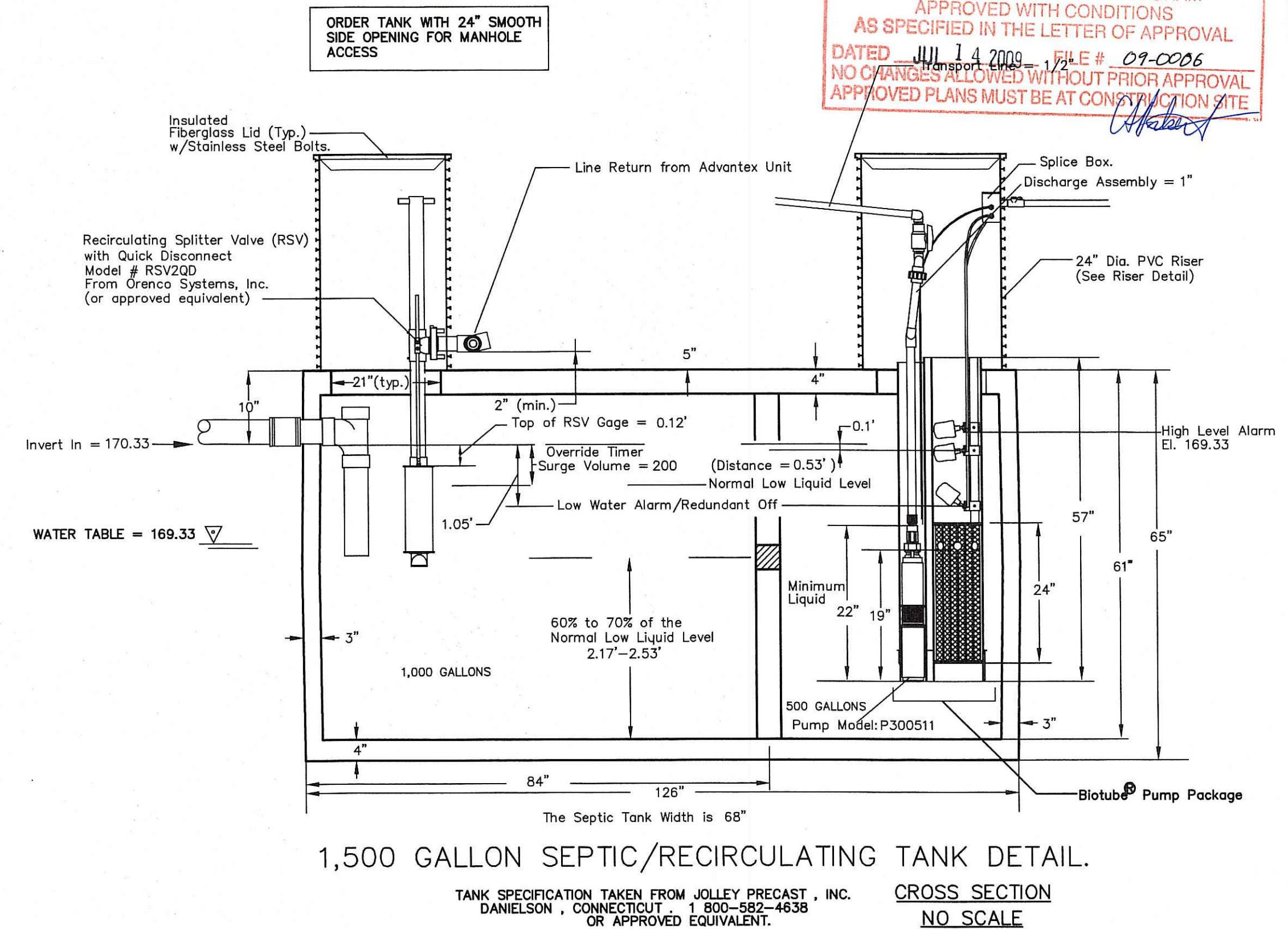
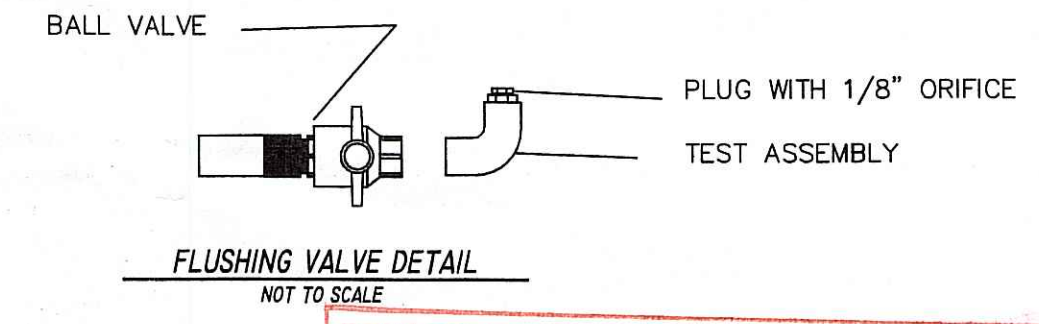
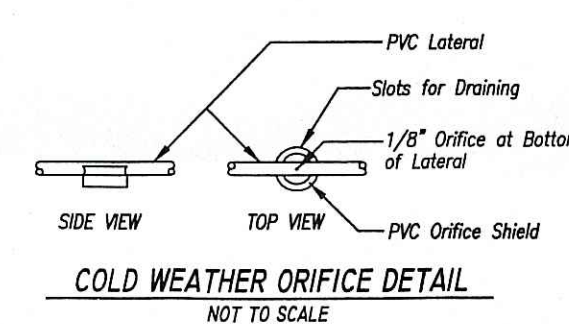
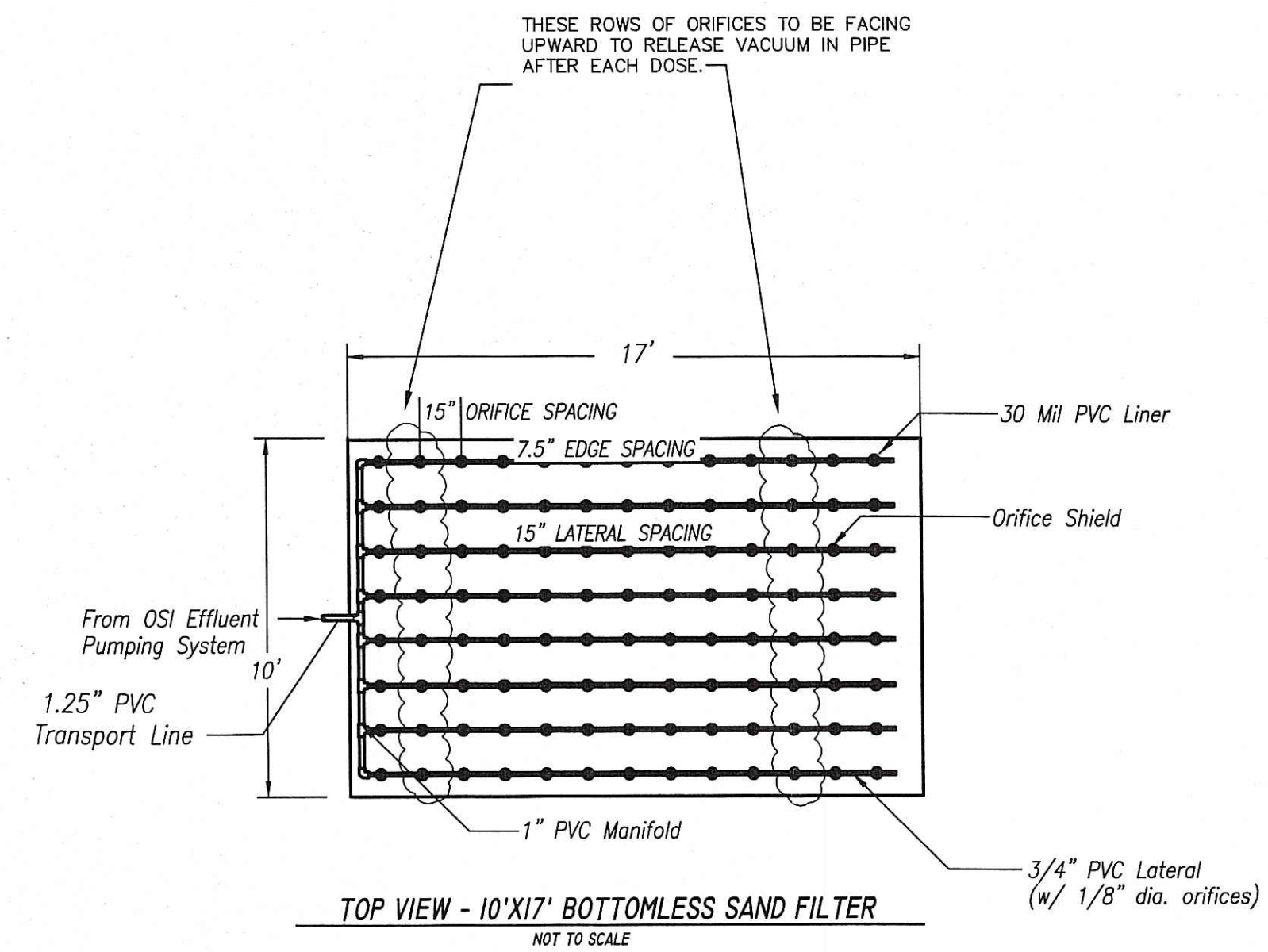
1. MIX 3" OF SAND INTO TOP 3" OF NATIVE MINERAL SOIL.
2. SAND IS TO BE PLACED IN MAXIMUM 8" LIFTS BEFORE COMPACTION. WET SAND SLIGHTLY TO PROMOTE EVEN SETTLEMENT.
3. INSTALLER TO WALK PERIMETER OF FILTER TO INSURE A TIGHT EDGE AND NO VOIDS. CARE SHOULD BE TAKEN TO AVOID DAMAGE TO LINER.
4. SAND FILTER MEDIA TO CONFORM TO FIGURE 9 OF THE 'GUIDELINES FOR THE DESIGN AND USE OF BOTTOMLESS SAND FILTERS'. PUBLISHED BY THE RIDEM NOVEMBER 2001.

ELEVATIONS:

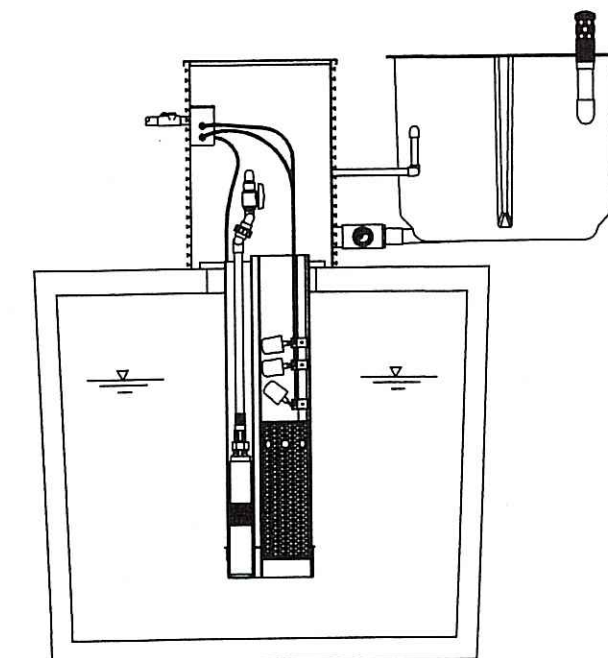
- TOP OF SEPTIC TANK = 171.16
- BASE OF SEPTIC TANK = 165.74
- TOP OF AX UNIT = 174.16
- BASE OF AX UNIT = 171.58

10'x17' BOTTOMLESS SAND FILTER

CONFIGURED FOR 2.65 GPD/S.F.



PICTORIAL REPRESENTATION. REFER TO SITE PLAN FOR ARRANGEMENT AND DETAILS FOR SPECIFICS.



Title:	Advantex - AX 20 Mode 3B
Drawn By:	Chris J. Jarama
Drawing No.:	MHW-171-A20-3B
Date:	1/17/04
Scale:	1" = 2'-0"
Designed By:	Engineer
Approved By:	J. D. /
Date Approved:	2.0
U.S. Patent	
Other Patents Pending	

REVISIONS:

REGISTRATIONS:

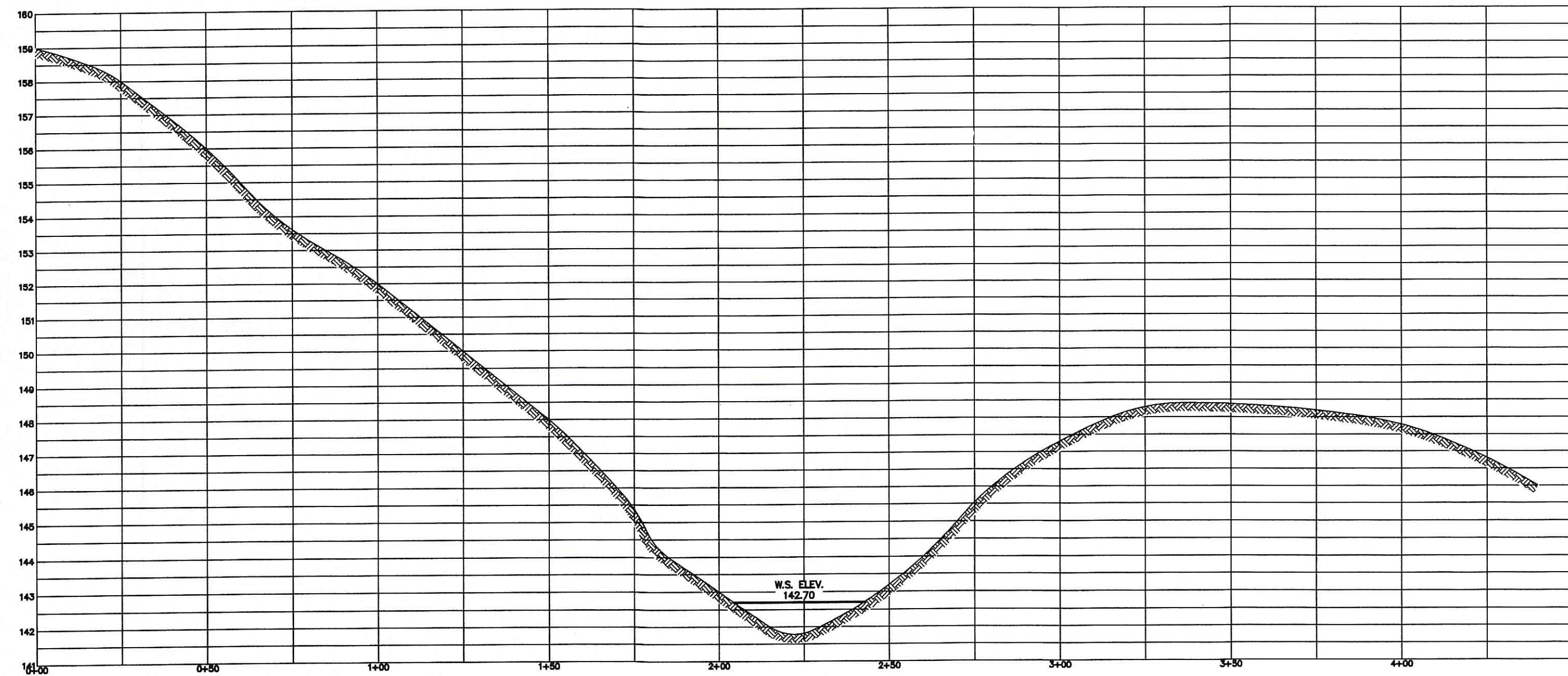
CARRIGAN ENGINEERING, INC.
CIVIL AND ENVIRONMENTAL ENGINEERING
140 POINT JUDITH ROAD
UNIT #3 MARINER SQUARE
NARRAGANSETT, RI 02882
PHONE: (401) 789-6865
FAX: (401) 789-2053

PROPOSED ISDS PLAN
ASSESSOR'S PLAT 31-2 LOT 123
LEDGEWOOD ROAD
SOUTH KINGSTOWN, RHODE ISLAND
PREPARED FOR: TRI-LEVEL CONSTRUCTION CO. INC.
SCALE: AS NOTED DATE: 04/15/05 SHEET 2 OF 3

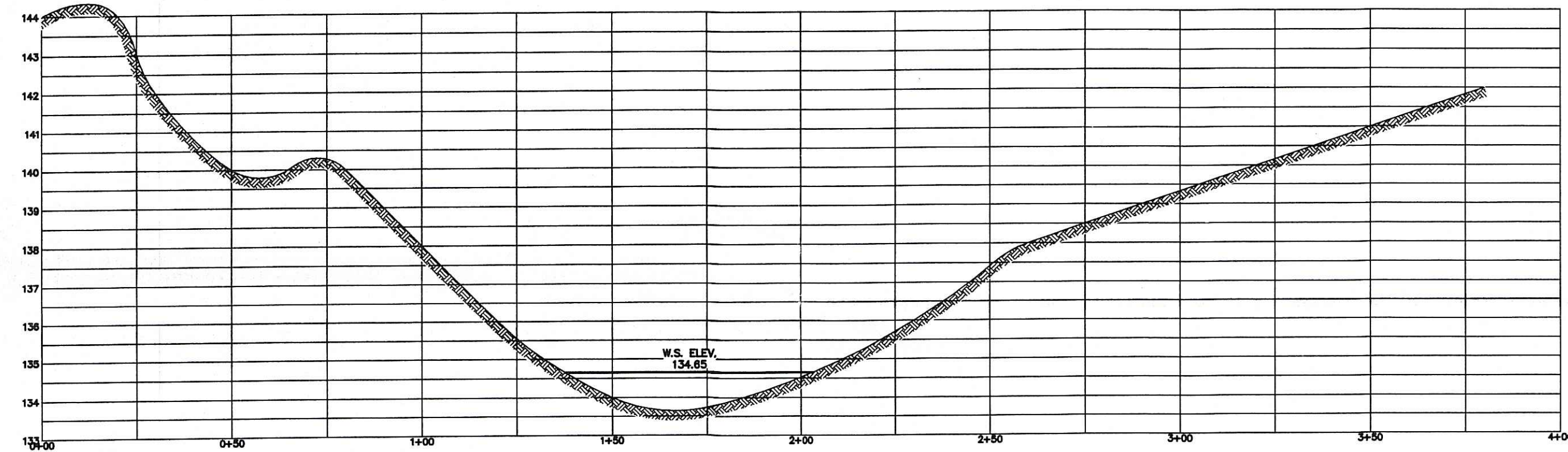
NO.	DATE	DESCRIPTION	BY

JOB NO. 040656

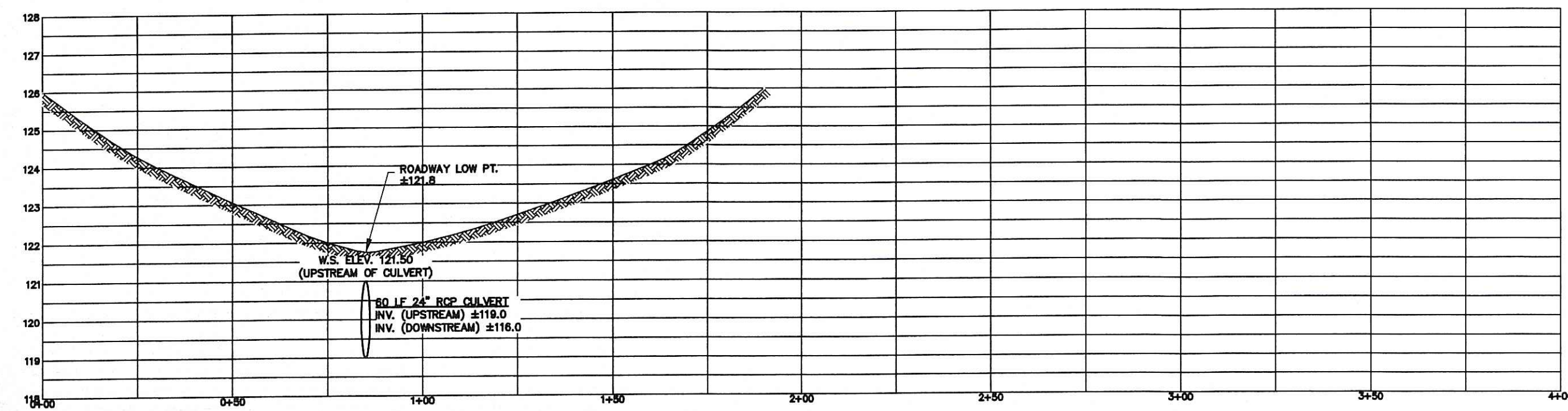
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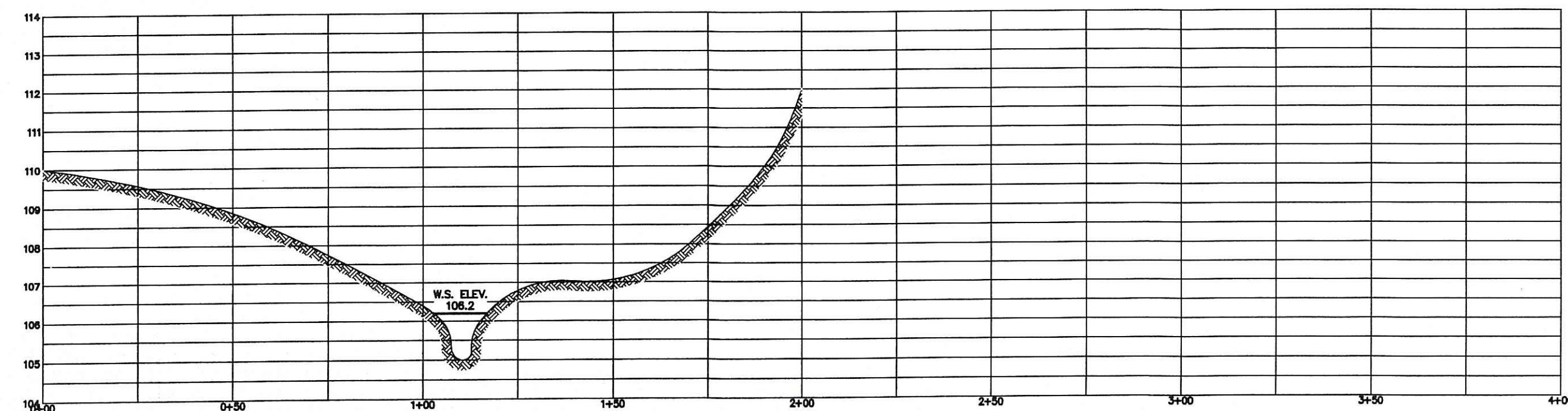
100-YEAR WATER ELEVATION SECTION 4-4



100-YEAR WATER ELEVATION SECTION 3-3

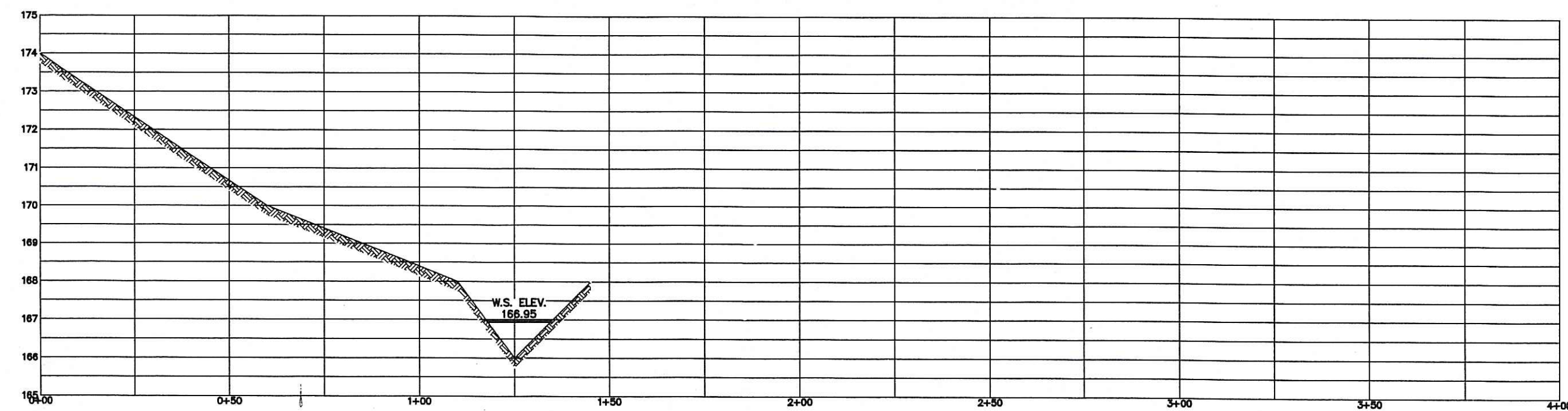


100-YEAR WATER ELEVATION SECTION 2-2

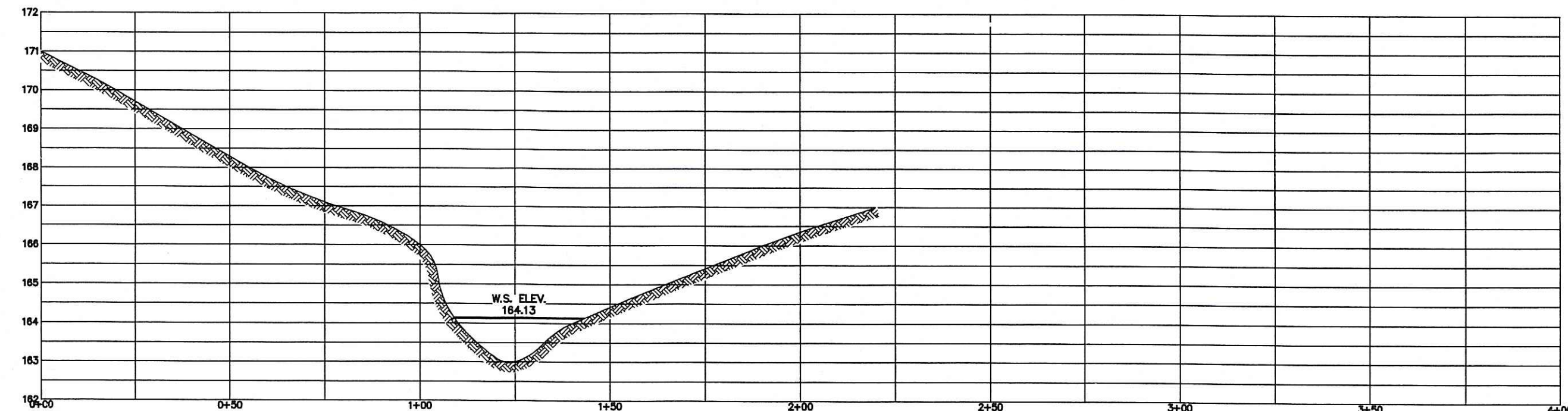


100-YEAR WATER ELEVATION SECTION 1-1

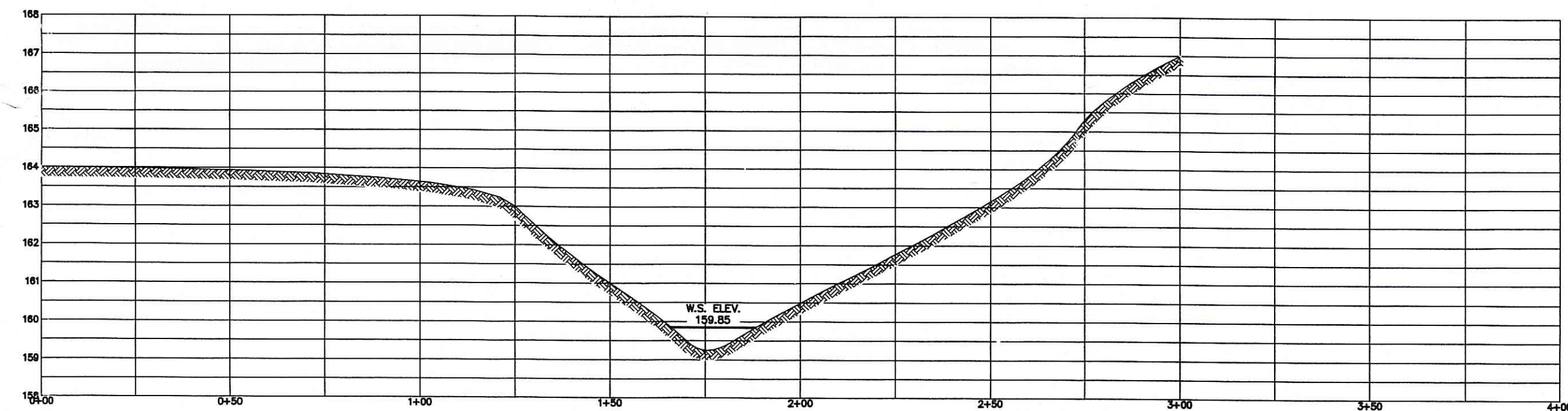
SCALE (ALL PROFILES)
HORIZONTAL: 1"=30' VERTICAL: 1"=3'



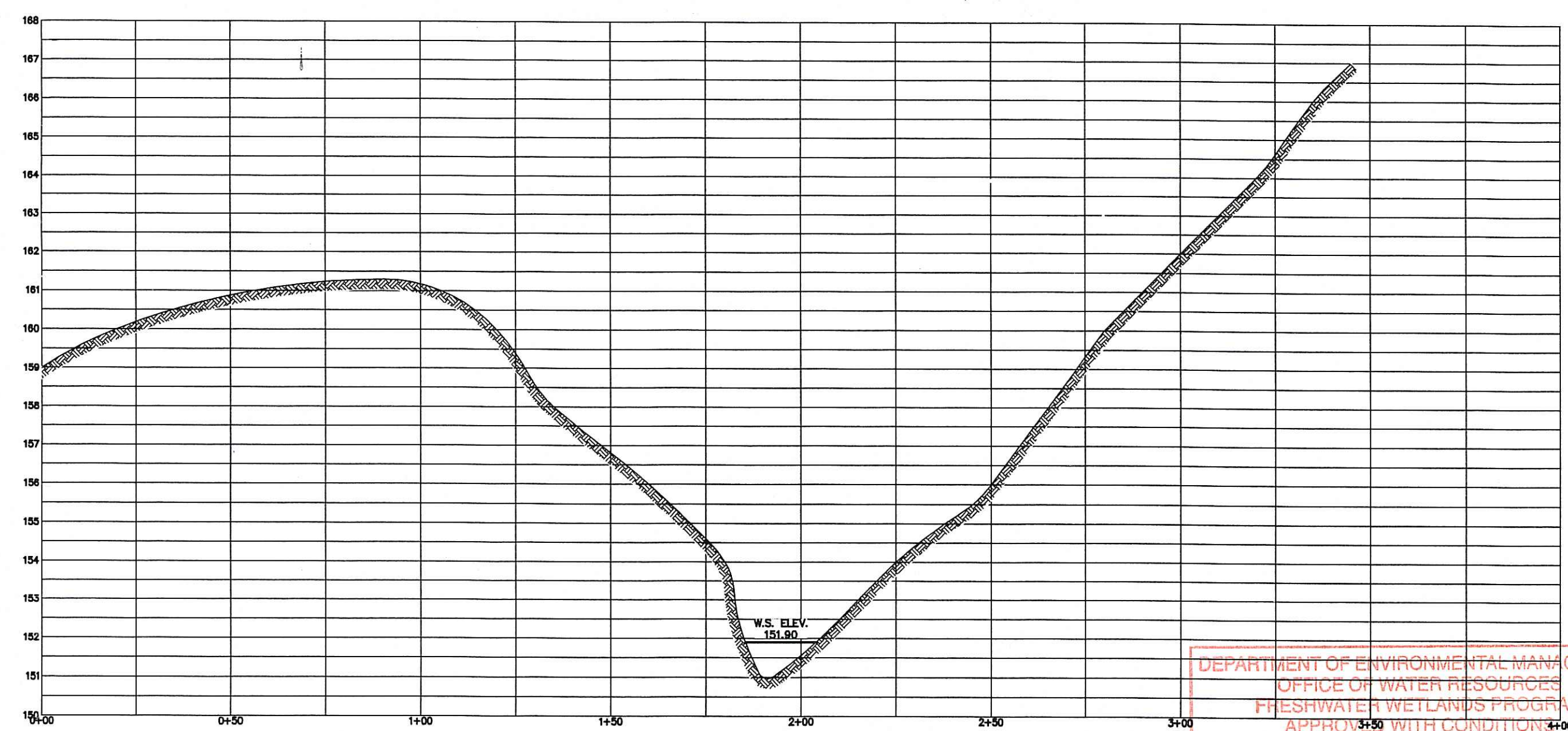
100-YEAR WATER ELEVATION SECTION 8-8



100-YEAR WATER ELEVATION SECTION 7-7



100-YEAR WATER ELEVATION SECTION 6-6



100-YEAR WATER ELEVATION SECTION 5-5

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITION OF APPROVAL
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 14 2009 FILE # 09-0006
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE CONSTRUCTION SITE

100-YEAR ELEVATION PROFILES

ASSESSOR'S PLAT 31-2 LOT 123
LEDGEWOOD ROAD
SOUTH KINGSTOWN, RHODE ISLAND
PREPARED FOR: TRI-LEVEL CONSTRUCTION
SCALE: AS NOTED DATE: 12/23/05 SHEET 3 OF 3

REVISIONS:

NO.	DATE	DESCRIPTION	BY
1	5/14/06	RIDEM ENGINEERING COMMENTS	MZ



CARRIGAN ENGINEERING, INC.

CIVIL AND ENVIRONMENTAL ENGINEERING
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