

PROJECT OVERVIEW

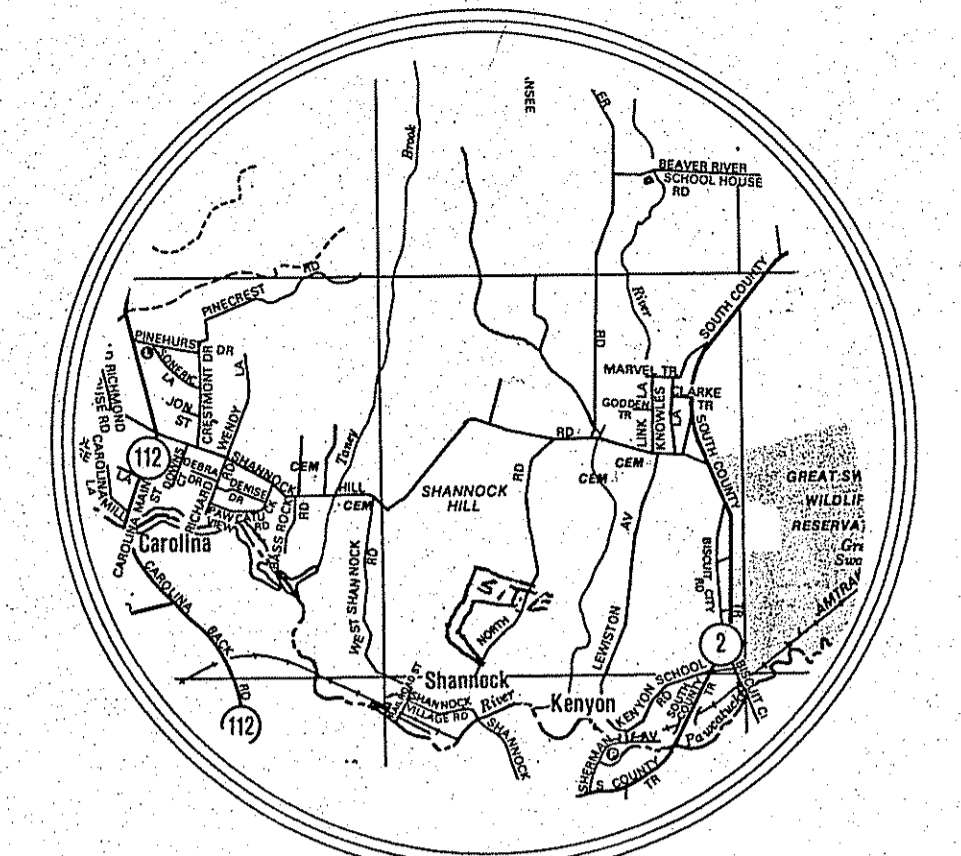
PRELIMINARY DETERMINATION APPLICATION

PREPARED FOR

Joshua N. Jordan

PO BOX 297, SHANNOCK, RI 02875
 ASSESSOR'S MAP 10D, LOT 34
 NORTH ROAD, RICHMOND

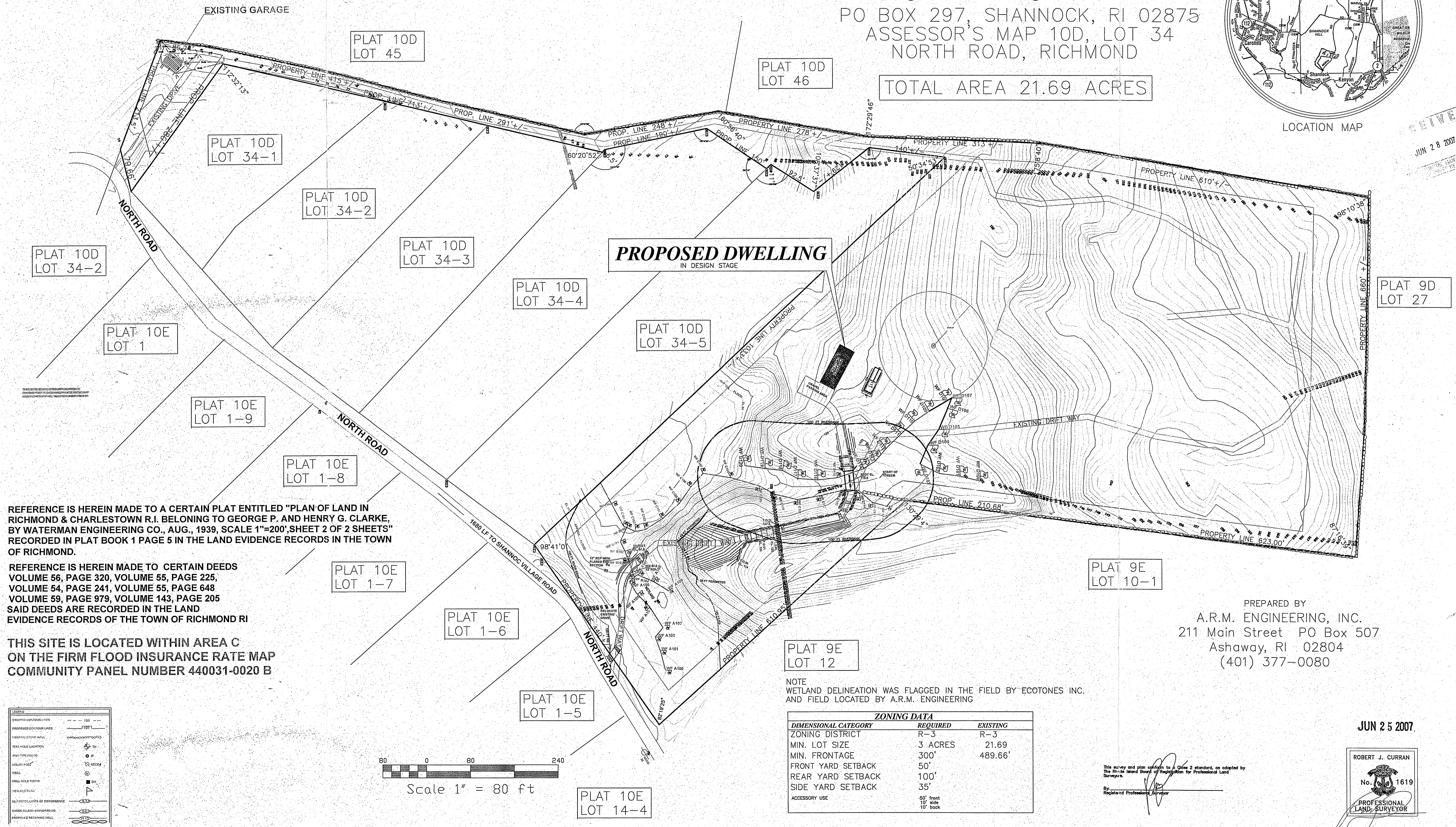
TOTAL AREA 21.69 ACRES



LOCATION MAP

RECEIVED
 JUN 28 2007
 TOWN OF RICHMOND
 ENGINEERING DEPARTMENT

PROPOSED DWELLING
 IN DESIGN STAGE



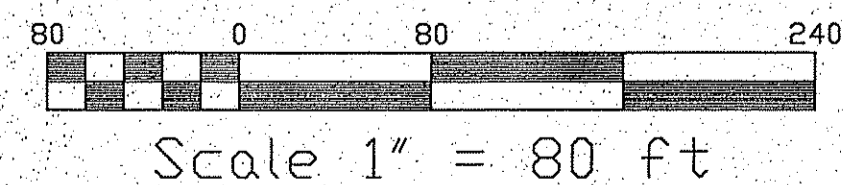
REFERENCE IS HEREIN MADE TO A CERTAIN PLAT ENTITLED "PLAN OF LAND IN RICHMOND & CHARLESTOWN R.I. BELONGING TO GEORGE P. AND HENRY G. CLARKE, BY WATERMAN ENGINEERING CO., AUG., 1939, SCALE 1"=200', SHEET 2 OF 2 SHEETS" RECORDED IN PLAT BOOK 1 PAGE 5 IN THE LAND EVIDENCE RECORDS IN THE TOWN OF RICHMOND.

REFERENCE IS HEREIN MADE TO CERTAIN DEEDS VOLUME 56, PAGE 320, VOLUME 55, PAGE 225, VOLUME 54, PAGE 241, VOLUME 55, PAGE 648 VOLUME 59, PAGE 979, VOLUME 143, PAGE 205 SAID DEEDS ARE RECORDED IN THE LAND EVIDENCE RECORDS OF THE TOWN OF RICHMOND RI

THIS SITE IS LOCATED WITHIN AREA C ON THE FIRM FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 440031-0020 B

LEGEND

EMPAIRED LOT/TOUR LINES	---
PROPOSED BOUNDARY LINES	---
EXISTING STONE WALL	---
FEET HOLE LOCATION	TH
ROUPTIME EGG	IP
UTILITY POLE	W, MCOOY
TREEL	○
BRELL HOLE FOUND	DI
DEBRASHFIELD	▽
BACK FENCE LIMITS OF DISTURBANCE	---
BRIDGE ISLAND STANDARD	---
PROPOSED RELOCATING WALL	---

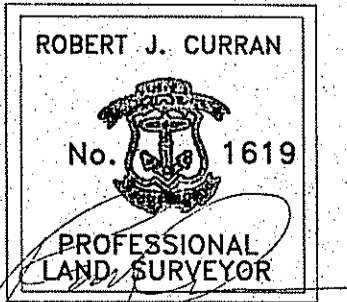


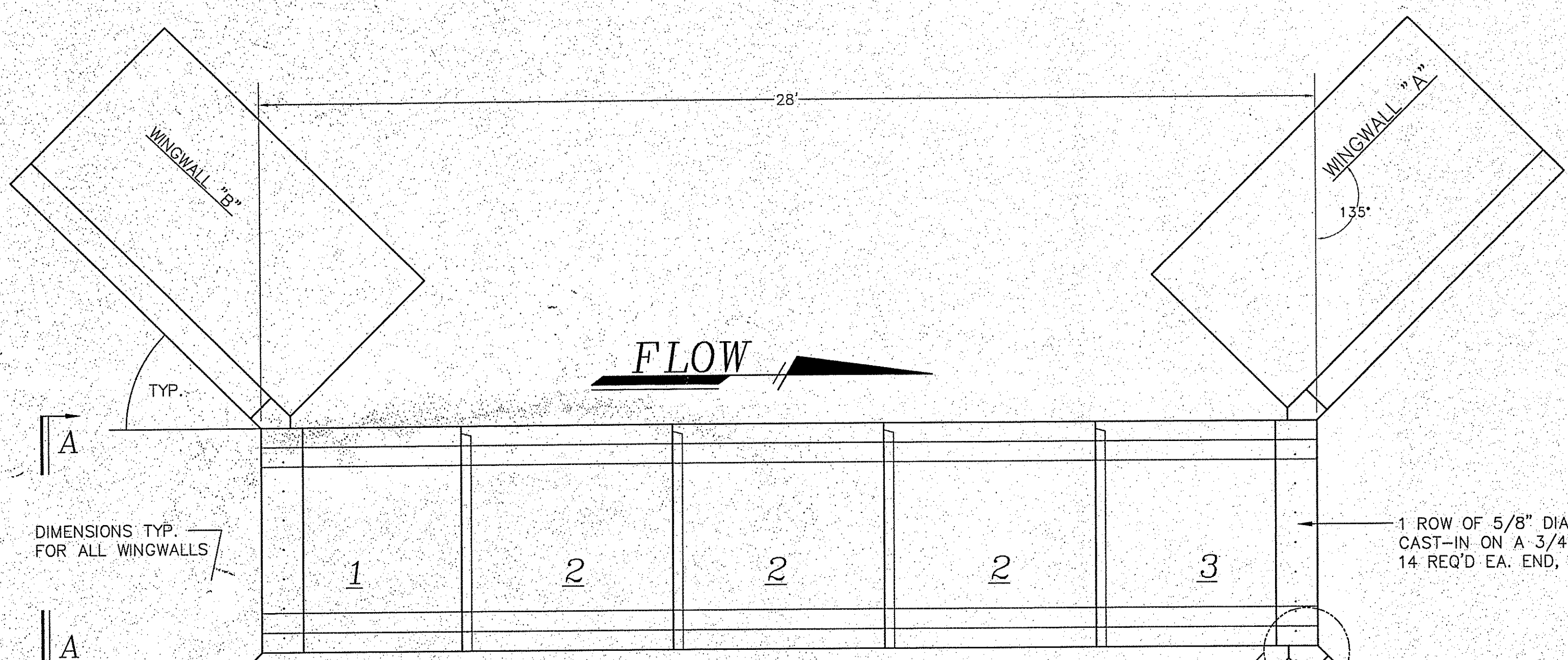
NOTE
 WETLAND DELINEATION WAS FLAGGED IN THE FIELD BY ECOTONES INC. AND FIELD LOCATED BY A.R.M. ENGINEERING

ZONING DATA		
DIMENSIONAL CATEGORY	REQUIRED	EXISTING
ZONING DISTRICT	R-3	R-3
MIN. LOT SIZE	3 ACRES	21.69
MIN. FRONTAGE	300'	489.66'
FRONT YARD SETBACK	50'	
REAR YARD SETBACK	100'	
SIDE YARD SETBACK	35'	
ACCESSORY USE	50' front 10' side 10' back	

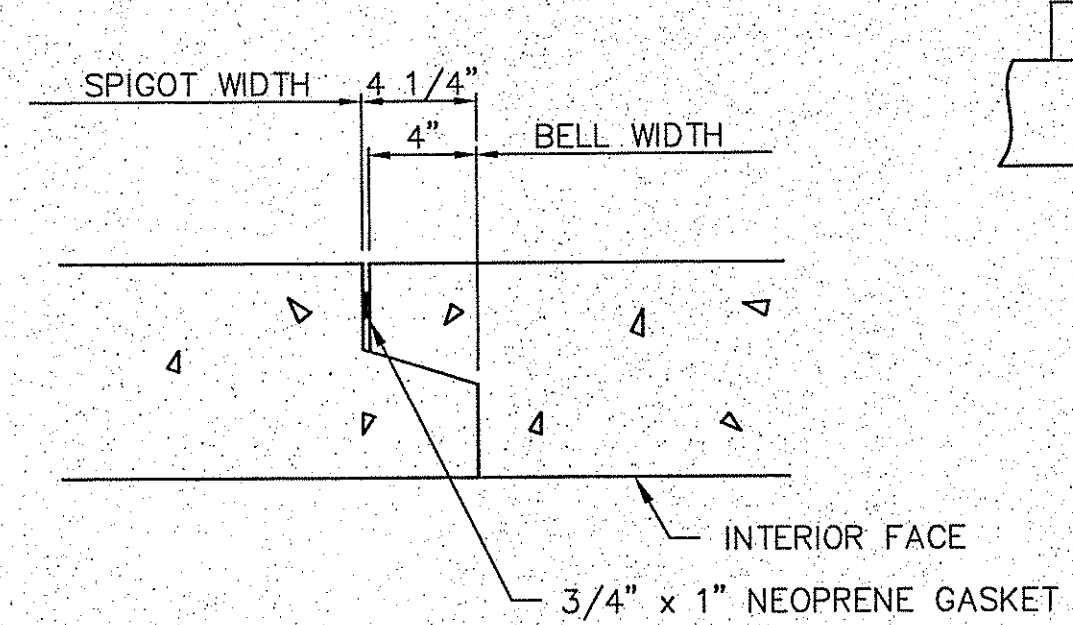
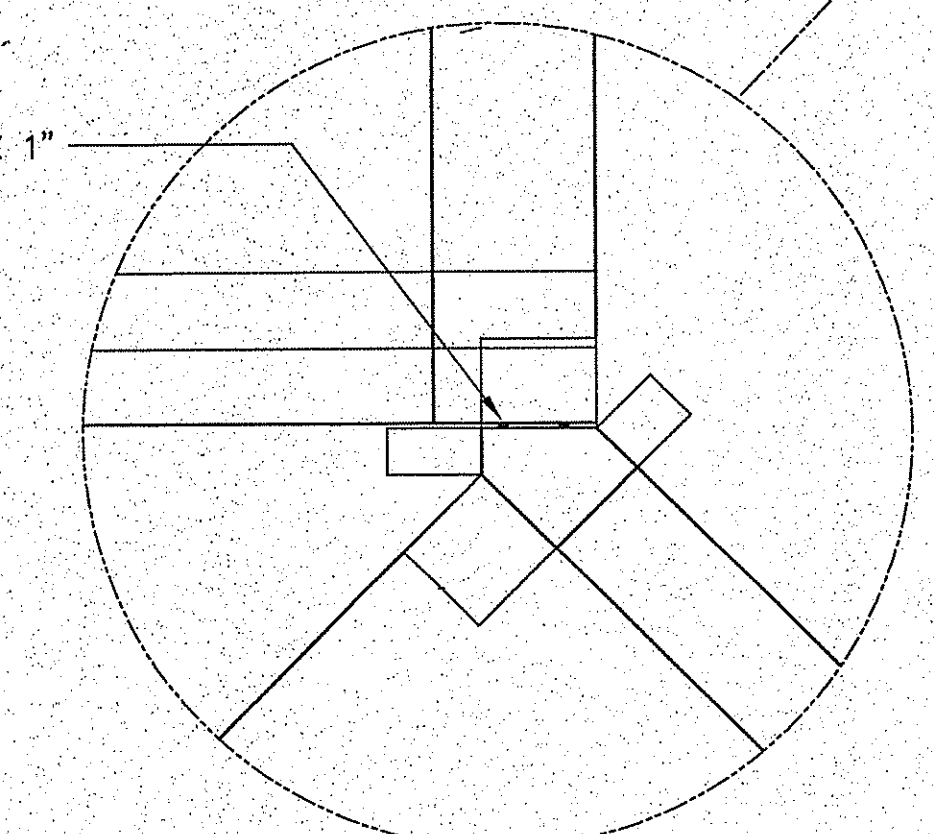
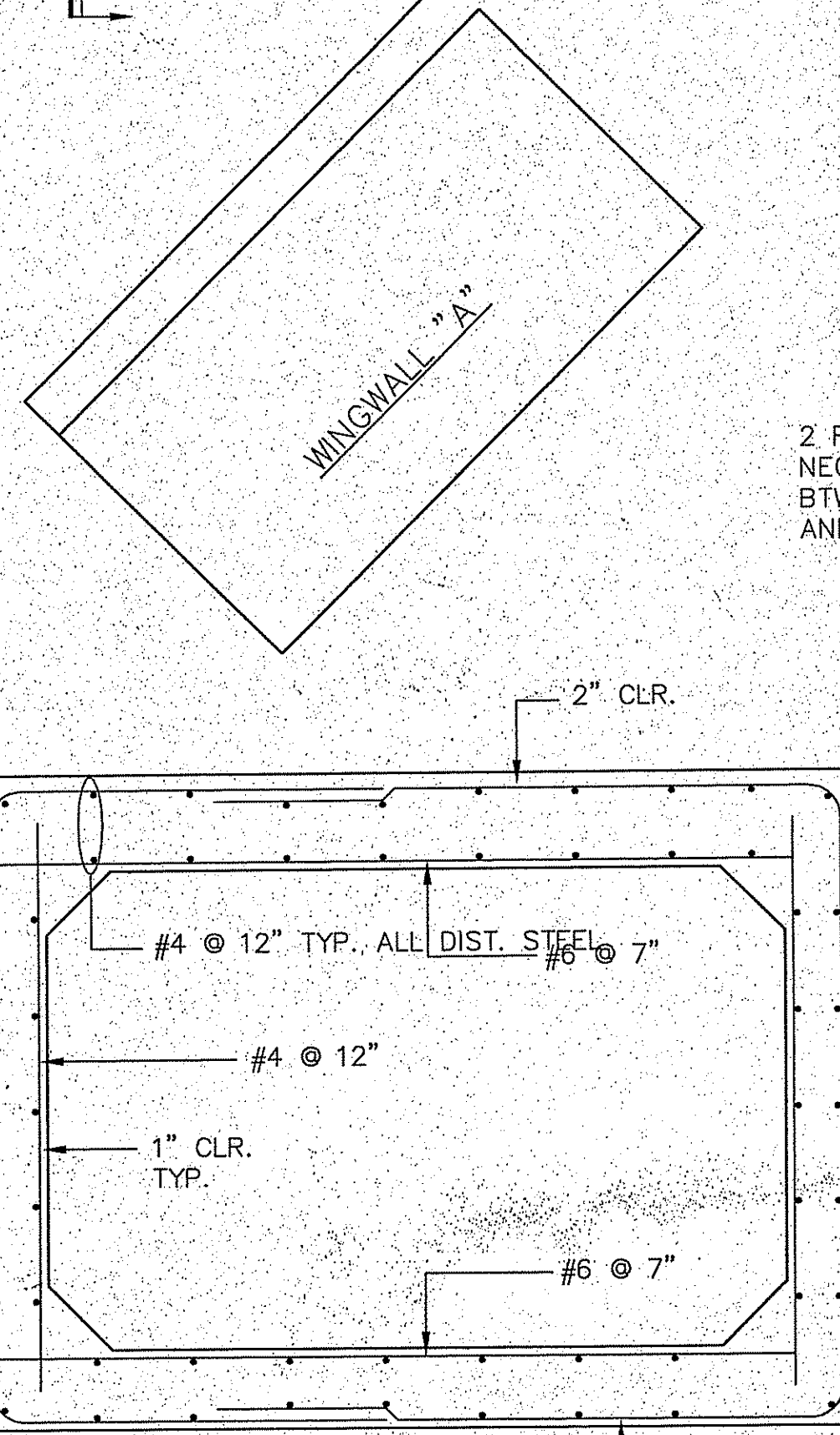
PREPARED BY
 A.R.M. ENGINEERING, INC.
 211 Main Street PO Box 507
 Ashaway, RI 02804
 (401) 377-0080

JUN 25 2007

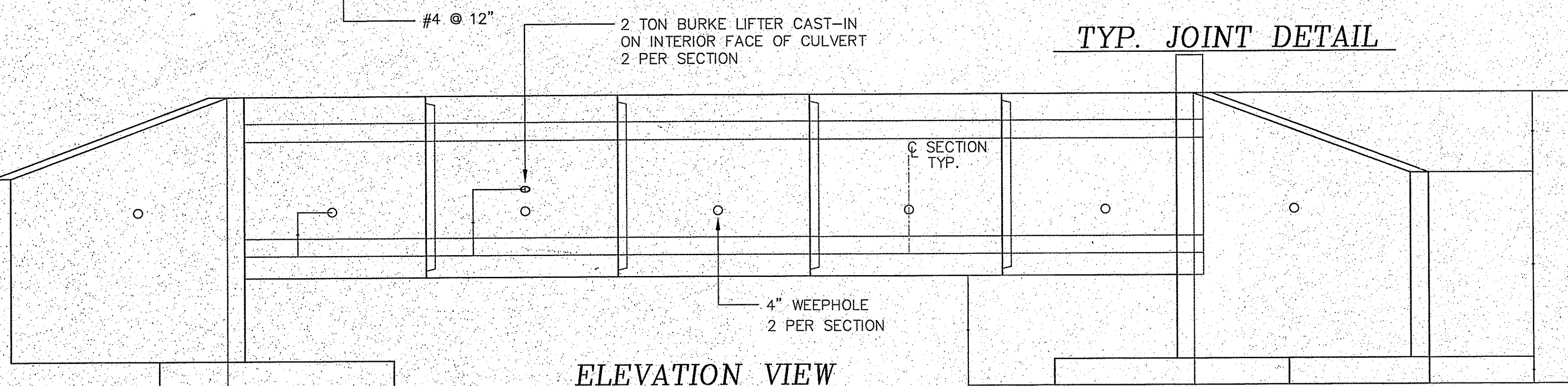




PLAN VIEW



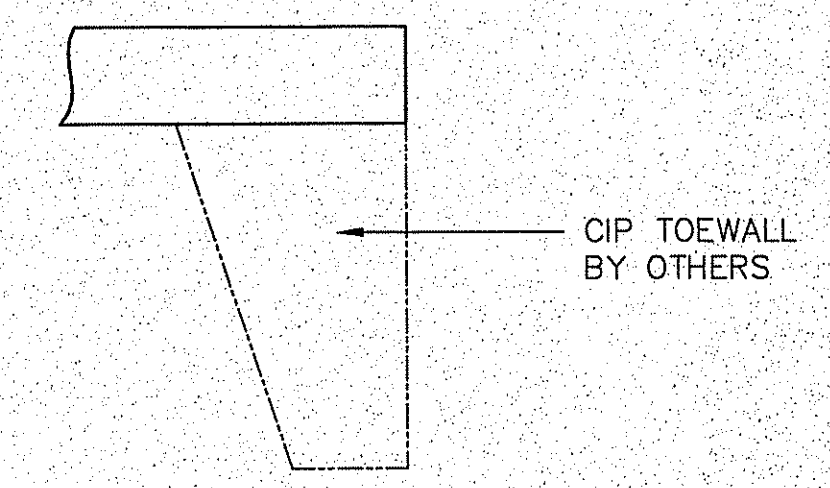
TYP. JOINT DETAIL



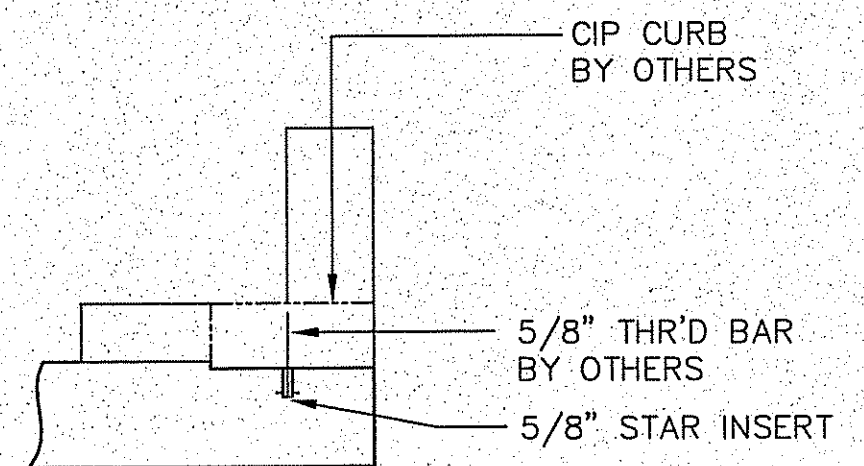
ELEVATION VIEW

SECTION SCHEDULE					
SECTION	REQ'D.	Ø DIM.	TOTAL LG.	WT. TONS	CU. YDS.
1	1	1.5'	5.6'	8	3.84
2	3	1.5'	16.8'	8	3.84
3	1	1.5'	5.6'	8	3.84
WING A	2			14.5	7.2
WING B	2			14.5	7.2

BILL OF MATERIALS				
ITEM	REQ'D.	DESCRIPTION	PLANT	FIELD
5/8" Ø INSERTS	28	STAR TYPE P-46-T	X	
NEOPRENE GASKET	264 LF	3/4" x 1"	X	
2 TON ANCHORS	10	BURKE	X	



SECTION C-C
1/2" = 1'-0"



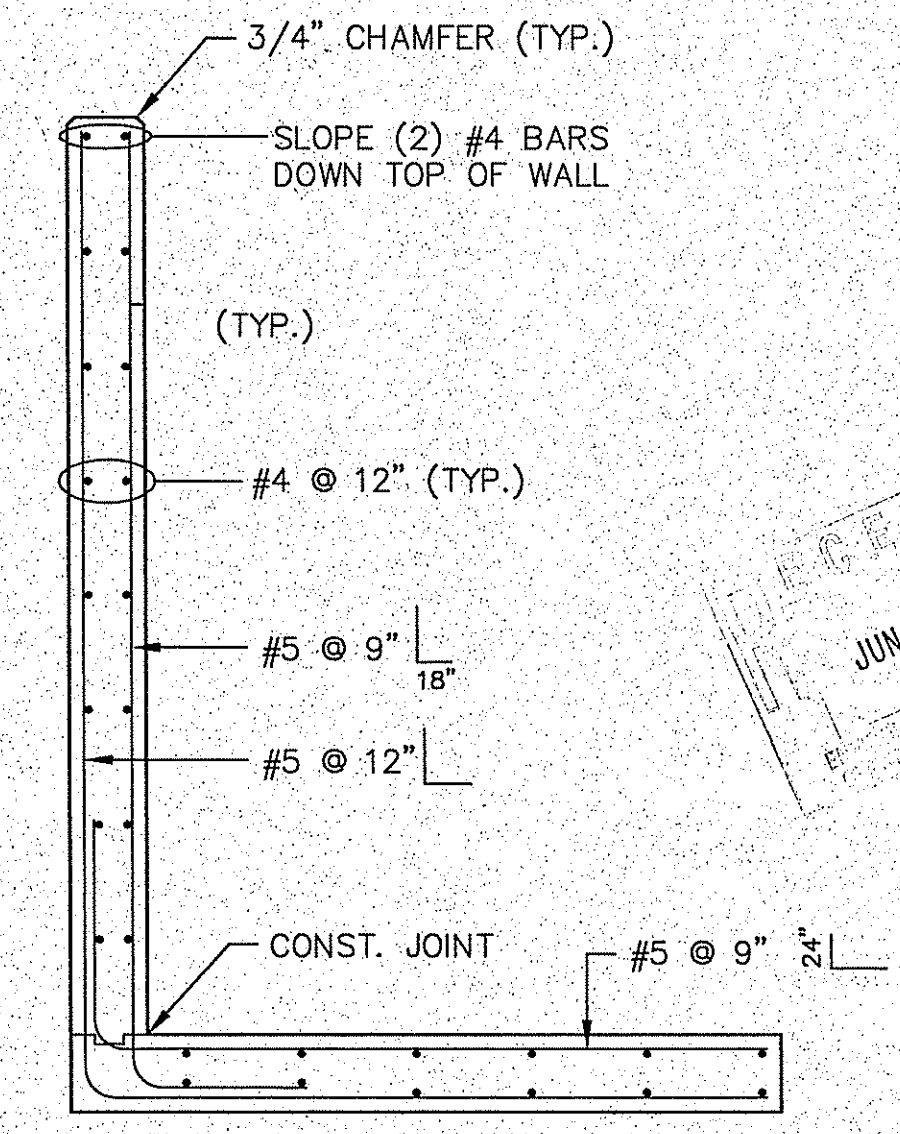
SECTION B-B
1/2" = 1'-0"

TYP. CULVERT REINF.

DESIGN NOTES
 CONCRETE MIN. STRENGTH - 5000 PSI @ 28 DAYS
 STEEL REINFORCEMENT - ASTM A615, GRADE 60
 WHEEL LOADING AASHTO - HS 20 - 44, (2) 24 K AXLES AT 4' SPA.
 COVER TO STEEL 1", 2" TOP MAT OF TOP SLAB
 FILL RANGE 2' MIN. 3' MAX.
 UNIT WEIGHT OF EARTH - 120 PCF
 ACTIVE PRESSURE COEFFICIENT - .33
 SOIL DEAD LOAD REDUCTION FACTOR - 1
 EXTERIOR GROUND WATER IS AT OR BELOW INVERT
 DESIGN IN ACCORDANCE WITH AASHTO SPEC. FOR HIGHWAY BRIDGES

LOAD FACTOR DESIGN
 LOAD FACTORS
 DEAD LOAD 1.3
 LIVE LOAD 2.17
 IMPACT PER AASHTO 3.8.2.3
 EARTH PRESSURE HOR. 1.3 VERT. 1.3

CAPACITY REDUCTION FACTORS
 SHEAR 0.9
 MOMENT 1.0



TYP. WINGWALL REINF.
NTS

WINGWALL DESIGN NOTES:
 - CONCRETE f'c = 5000 PSI @ 28 DAYS
 - REINFORCEMENT = ASTM A615 GRADE 60
 - UNIT WEIGHT OF SOIL = 120 PCF
 - COVER TO STEEL = 1"

BOX CULVERT DETAILS

PRELIMINARY DETERMINATION APPLICATION

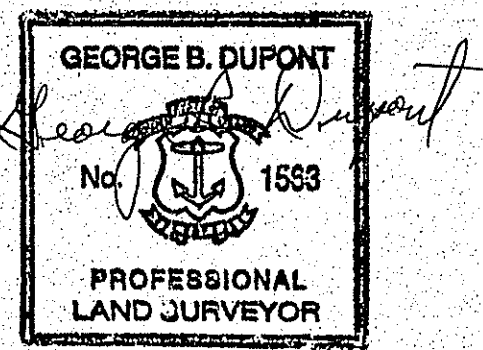
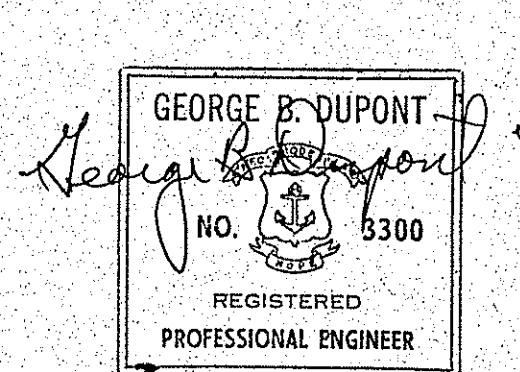
PREPARED FOR

Joshua N. Jordan

PO BOX 117, SHANNOCK, RI 02875
 ASSESSOR'S MAP 10D, LOT 34
 NORTH ROAD, RICHMOND

REVISIONS

JUN 25 2007



Rotondo Precast S Spancrete Northeast

MANUFACTURERS OF QUALITY PRE-CAST CONCRETE PRODUCTS

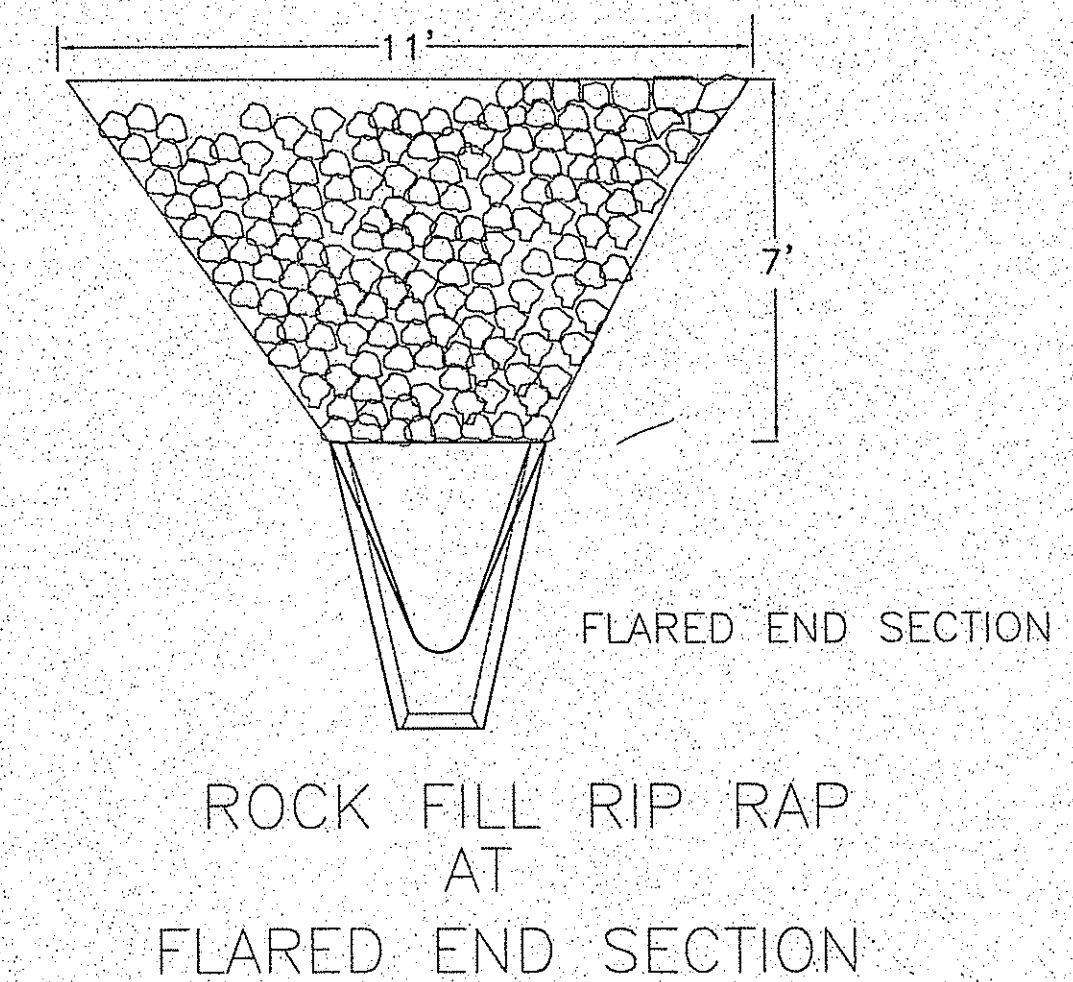
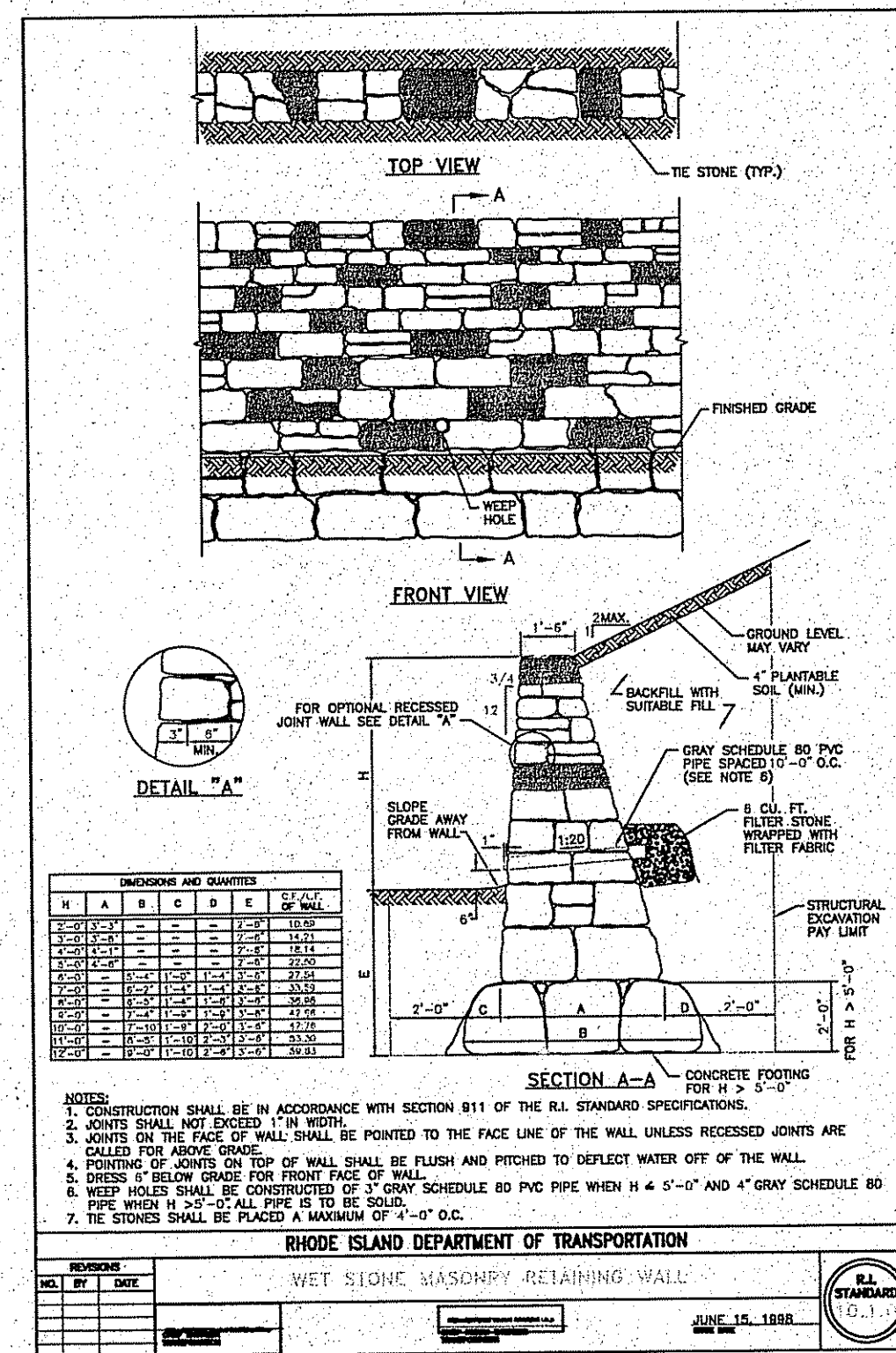
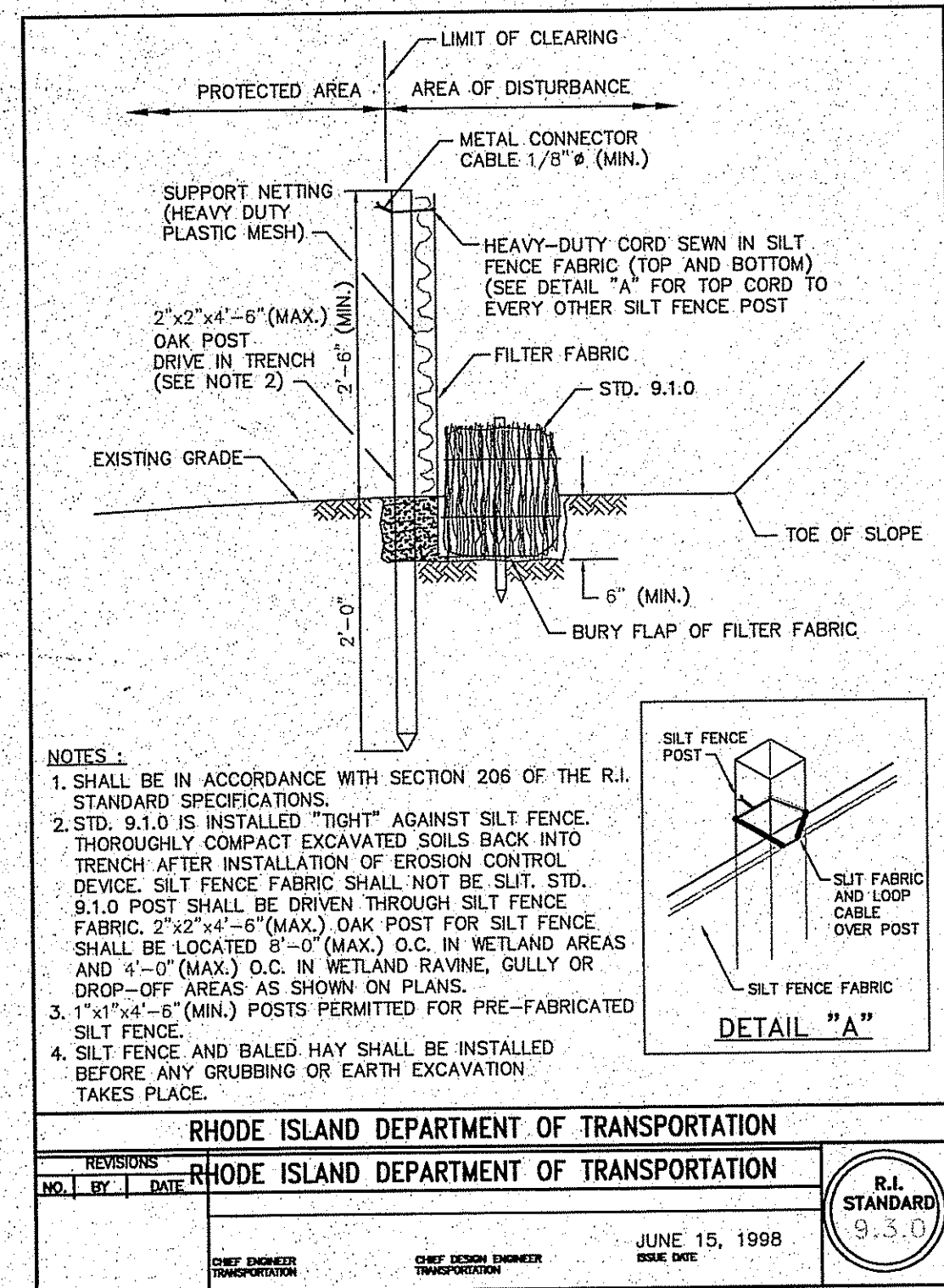
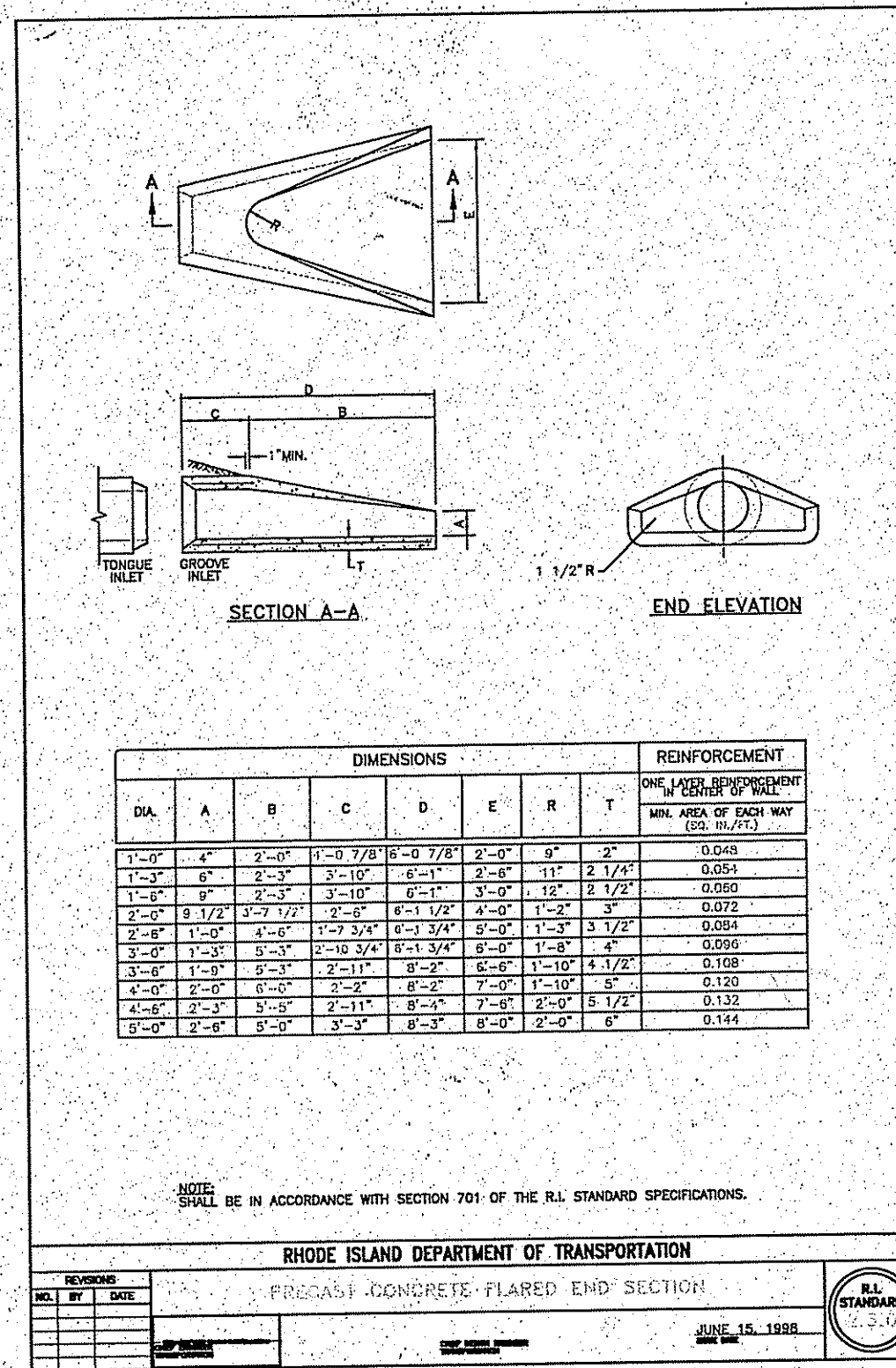
DRAWN BY: T. RHODES
 DATE: 08/18/05
 DWG. NO.:

REVISIONS: 9/12/06 MOVED BOX CULVERT ADDED 24" CRP
 6/20/07 ADDED WALLS, L.O.C. AND ADRESSED COMMENTS FROM
 ECOTONES.

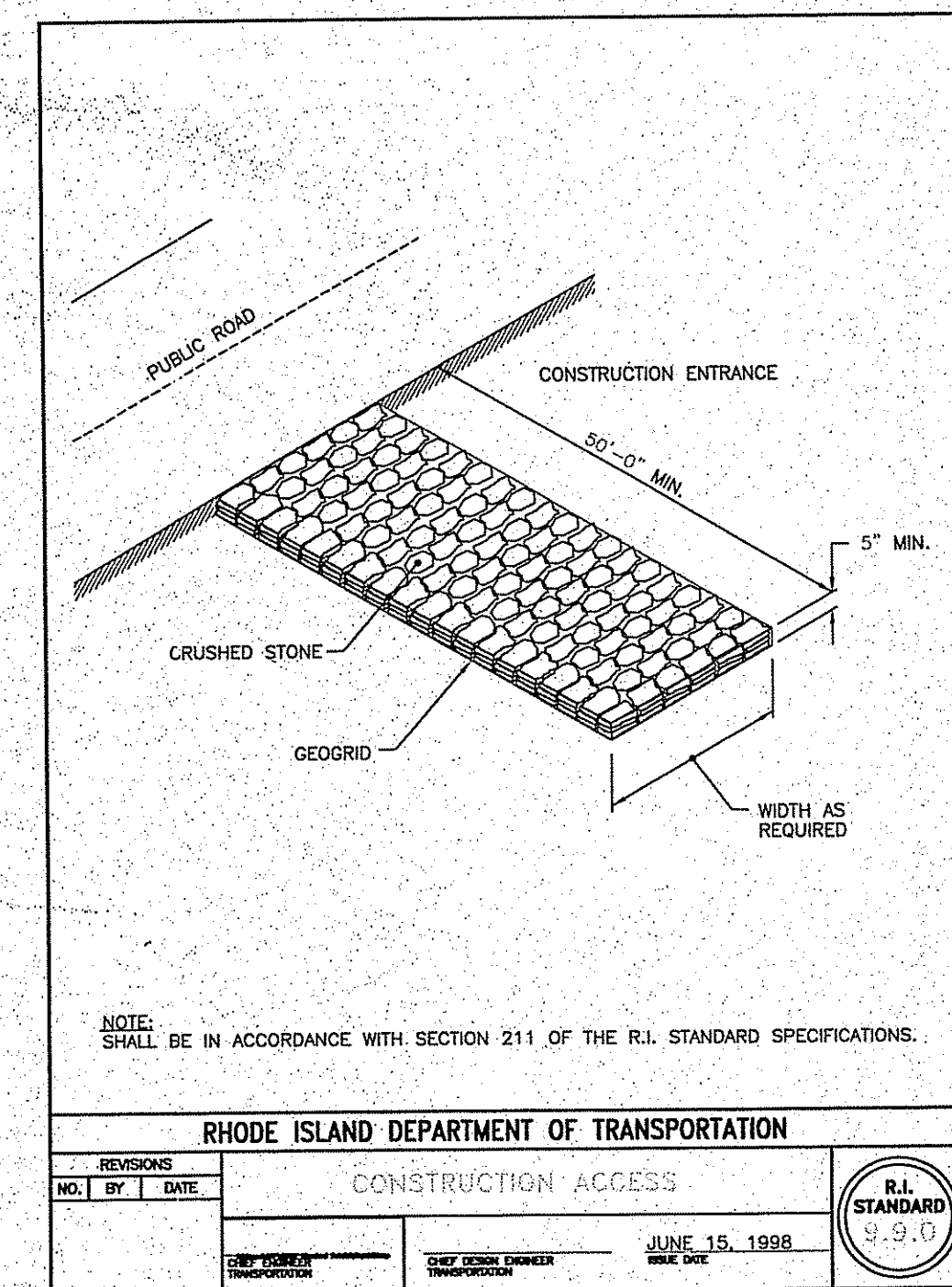
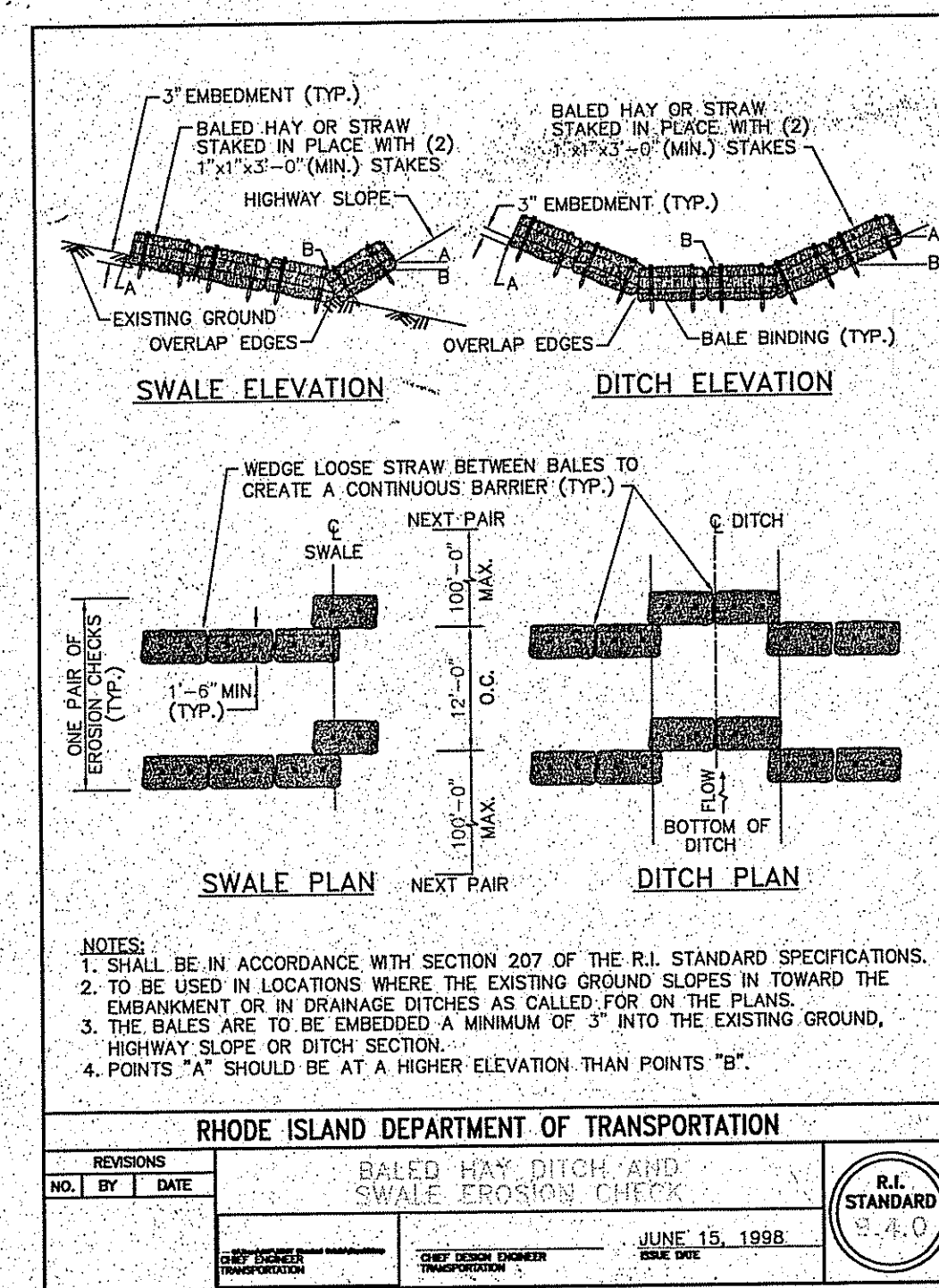
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Joshua N. Jordan
 ASSESSOR'S MAP 10D, LOT 34
 NORTH ROAD

DEVELOPEMENT PLAN



RECEIVED
JUN 28 2007



SOIL EROSION AND SEDIMENT CONTROL

A. FILTER FENCE INSTALLATION

- DIG A SIX INCH TRENCH ON THE UPHILL SIDE OF THE DESIRED FENCE LINE LOCATION.
- POSITION THE POST IN THE BACK OF THE TRENCH (DOWNHILL SIDE) AND HAMMER THE POST AT LEAST 1.5 FEET INTO THE GROUND.
- LAY THE BOTTOM SIX INCHES OF THE FABRIC INTO THE TRENCH TO PREVENT UNDERMINING BY STORM WATER RUNOFF.
- BACKFILL THE TRENCH AND COMPACT.

B. FILTER FENCE MAINTENANCE

- FILTER FENCE BARRIERS ARE TO BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST ONCE DAILY DURING PERIODS OF PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE USABLE LIFE AND THE BARRIER STILL NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH 1/2 THE HEIGHT OF THE BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER REMOVAL OF THE FILTER FABRIC BARRIER SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

C. TOPSOIL STOCKPILE

THE TOPSOIL AND SUBSOIL EXCAVATED WILL BE STOCKPILED UPHILL OF THE AREA OUTLINED BY THE FILTER FABRIC FENCE, WITHIN THE AREA OF NECESSARY DISTURBANCE. IF THE STOCKPILED MATERIAL REMAINS IN PLACE FOR PROLONGED PERIODS OF TIME IN ORDER TO COMPLETE THE ROUGH GRADING AND FOUNDATION BACKFILLING, THE STOCKPILE SHALL BE SEEDED WITH CONSERVATION SEED MIX OR HAY MULCH OR JUTE NETTING WILL BE APPLIED TO COVER THE STOCKPILE UNTIL FINISH GRADING CAN BE COMPLETED.

D. HAYBALE INSTALLATION (ALTERNATE)

- BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTATED PARALLEL TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.
- BALES SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF FOUR INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE BARRIER.
- EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST TWO STAKES.
- THE GAPS BETWEEN BALES SHALL BE WEDGED WITH STRAW TO PREVENT WATER FROM ESCAPING BETWEEN THE BALES.
- THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE TO ASSURE THAT THE SEDIMENT LADEN RUN-OFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER, BUT NOT AROUND IT.

E. GRADING AND FINISHING WITH SEEDING

- ALL DISTURBED AREAS SHALL BE SEEDED AS SOON AS POSSIBLE WITH CONSERVATION SEED MIX ON SLOPES AND BANKS USE SEED MIX COMPATIBLE WITH WET AREAS, REED CANARY GRASS AND RED TOP AT A 4:1 RATIO. MULCH WITH STRAW ALL AREAS AFTER SEEDING.
- THE SITE AROUND THE HOUSE WILL BE FINE GRADED AND ALL STONES LARGER THAN TWO INCHES WILL BE REMOVED. TOPSOIL WILL BE SPREAD AT A DEPTH OF NO LESS THAN 6" AND THE AREA WILL BE SEEDED WITH STANDARD LAWN MIX OR SOD.

JUN 25 2007

GEORGE A. DUPONT
No. 1583
PROFESSIONAL LAND SURVEYOR

GEORGE A. DUPONT
No. 3300
REGISTERED PROFESSIONAL ENGINEER