

APPROVED BY THE TOWN OF EAST GREENWICH
PLATTING AND SUBDIVISION BOARD

TITLE _____ DATE _____

PROJECT
1600 SOUTH COUNTY
OFFICE PARK
EAST GREENWICH
RHODE ISLAND
ASSESSORS PLAT 10C LOT 30

JAMES J. REDDINGTON, JR.
PROFESSIONAL
LAND SURVEYOR

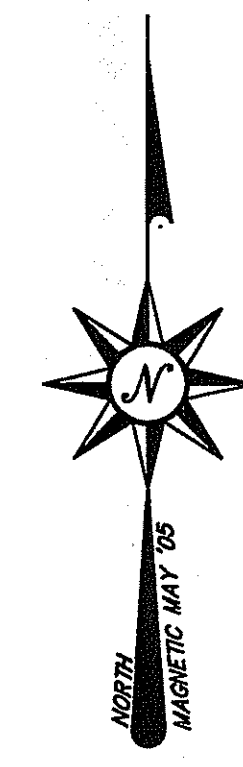
MORRIS GROUP LLC.
GORDON R. ARCHIBALD, INC.
Professional Engineers
200 MAIN ST., PAWTUCKET, R.I.

DRAWING TITLE
EXISTING CONDITIONS

NO.	DATE	REVISIONS	BY	INITIALS
1	1/23/07	ZONING SETBACK LINES SHOWN	JLR	

PROJECT NO.: 1078
DATE: MARCH 2007
SCALE: 1" = 40'
DRAWN BY: LBD
CHECKED BY: TAR
DRAWING NUMBER
1
SHEET 1 OF 10

- LEGEND**
- ZONING SETBACK LINE
 - STONEWALL
 - CHAINLINK FENCE
 - FLAGGED WETLAND EDGE
 - AREA SUBJECT TO STORM FLOW
 - PERIMETER WETLAND
 - EXISTING CONTOUR
 - CONCRETE CURB
 - EDGE OF PAVEMENT
 - EXISTING TREELINE
 - SPOT ELEVATION
 - UTILITY POLE
 - EXISTING IRON ROD
 - EXISTING DRILLHOLE
 - SET DRILLHOLE
 - RHIB
 - RHODE ISLAND HIGHWAY BOUND
 - APPROXIMATE FLOOD ZONE BOUNDARY
 - NO BASE FLOOD ELEVATION (ZONE A)
 - 100' RIVERBANK WETLAND
 - EDGE OF GRAVEL SURFACE
 - APPROXIMATE WATER LINE
 - APPROXIMATE GAS LINE
 - APPROXIMATE GAS VALVE
 - APPROXIMATE FIBER OPTIC LINE
 - SEWER LINE
 - SEWER MANHOLE
 - FILL TESTHOLE
 - MONITORING WELL
 - TESTHOLE
 - HYDRANT



- REFERENCES**
- 1) LAND EVIDENCE 512 PAGE 111 (SUBJECT DEED)
 - 2) LAND EVIDENCE 31 PAGE 600
 - 3) STATE HIGHWAY PLAT 287
 - 4) "SURVEY OF PROPERTY... FOR THOMAS & DOLORES K. VESPIA... PREPARED BY: GILBERT & MALONEY... SCALE 1"=40' JAN. 17, 1972"
 - 5) PLAT CARD 187 "PINWOOD TERRACE... SUBDIVISION NO. 2... BY VILLAGE GREEN ASSOCIATES... SCALE 1"=50' REVISED 4-7-68"
 - 6) PLAT CARD 267 "PINWOOD TERRACE SECTION 4... FOR BRENRYA CORP... BY VILLAGE GREEN ASSOCIATES... SCALE 1"=50' NOVEMBER 1975"
 - 7) "SITE PLAN... PREPARED FOR SCT GROUP LLC... PREPARED BY S.F.M. ENGINEERING ASSOC.... SCALE 1"=40' JAN. 12, 2004"

AP 10 LOT 346
N/F THOMAS C. PIEKUT
LE 186 PG 90
ZONE R-30

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 16 2007 FILE # 07-0095
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

UTILITY NOTE
UTILITIES LOCATIONS FROM OBSERVATIONS ONLY.
ALPHA ASSOCIATES, LTD. IN NO WAY GUARANTEES
THE LOCATION OR CHARACTERISTICS OF THE
SHOWN UTILITIES. IT SHALL BE THE CONTRACTOR
OR CLIENTS RESPONSIBILITY TO CONTACT
INDIVIDUAL UTILITY AGENCIES AND DIG-SAFE
PRIOR TO PLANNING OR START OF CONSTRUCTION.

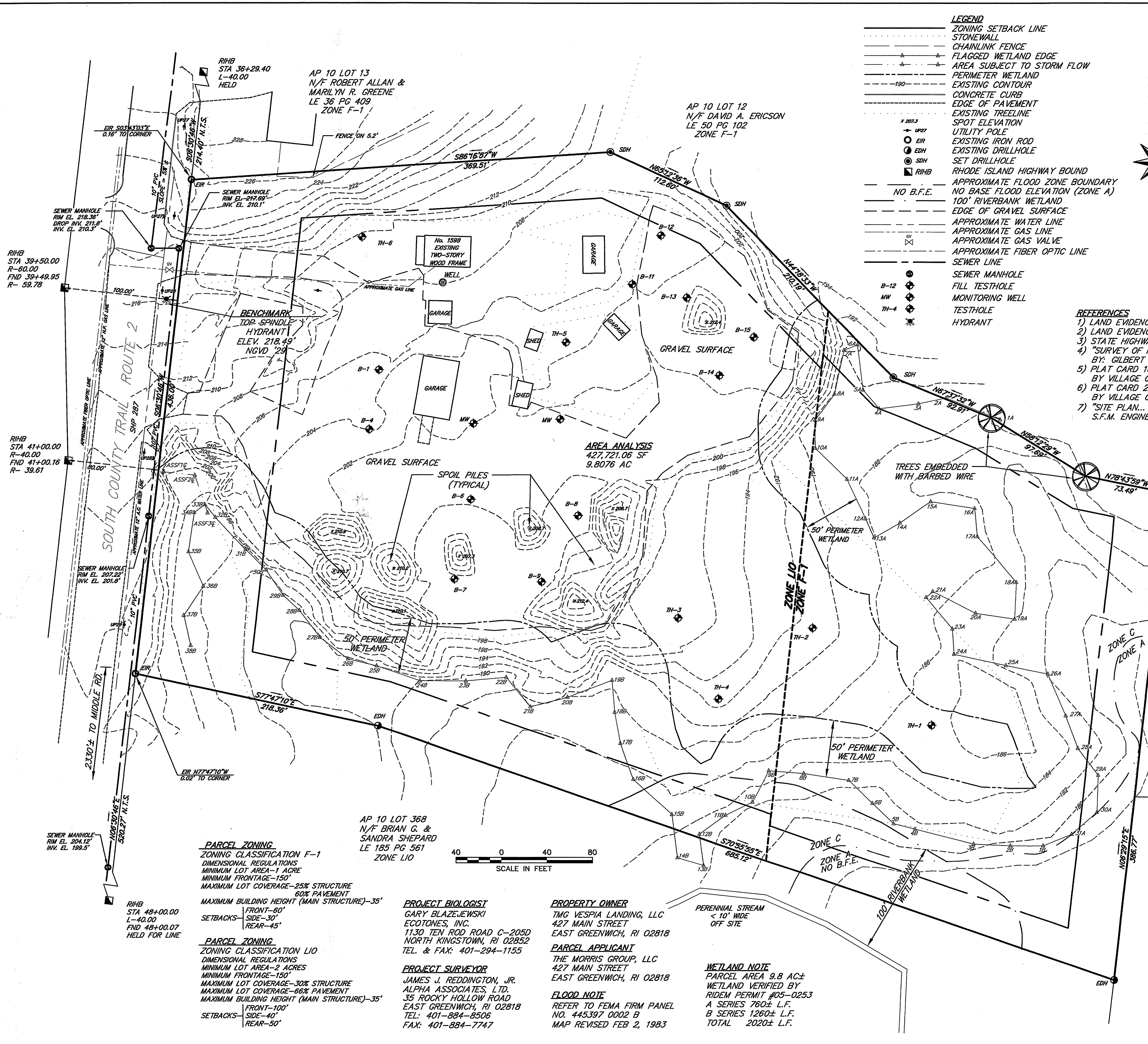
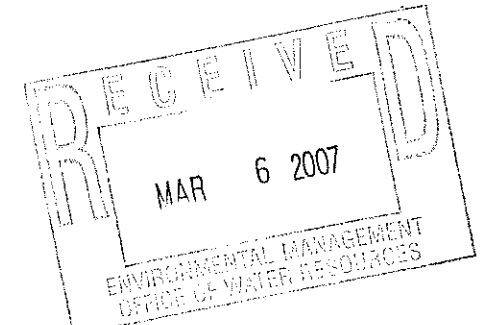
AP 10 LOT 343
N/F DONALD &
THERESA KUTZLER
LE 101 PG 428
ZONE R-30

THIS SURVEY AND PLAN CONFORMS TO THE FOLLOWING
STANDARDS AS ADOPTED BY THE RHODE ISLAND
BOARD OF REGISTRATION FOR PROFESSIONAL
LAND SURVEYORS.
BOUNDARY - CLASS I
TOPOGRAPHY & CULTURE - CLASS III

By: *James J. Reddington, Jr.*
JAMES J. REDDINGTON, JR. PLS 1728

AP 10 LOT 356
N/F TROY D. WILSON
LE 557 PG 280
ZONE R-30

EXISTING CONDITIONS PLAN
ASSESSORS PLAT 10C LOT 30
EAST GREENWICH, RHODE ISLAND
PREPARED FOR: MORRIS-MORRIS, LLC
PREPARED BY: ALPHA ASSOCIATES, LTD
35 ROCKY HOLLOW ROAD
EAST GREENWICH, RHODE ISLAND 02818
T.401.884.8506 F.401.884.7747
SCALE 1"=40' APRIL, 2006 SHEET 1 OF 1



PARCEL ZONING
ZONING CLASSIFICATION F-1
DIMENSIONAL REGULATIONS
MINIMUM LOT AREA-1 ACRE
MINIMUM FRONTAGE-150'
MAXIMUM LOT COVERAGE-25% STRUCTURE
60% PAVEMENT
MAXIMUM BUILDING HEIGHT (MAIN STRUCTURE)-35'

PARCEL ZONING
ZONING CLASSIFICATION LIO
DIMENSIONAL REGULATIONS
MINIMUM LOT AREA-2 ACRES
MINIMUM FRONTAGE-150'
MAXIMUM LOT COVERAGE-30% STRUCTURE
MAXIMUM LOT COVERAGE-66% PAVEMENT
MAXIMUM BUILDING HEIGHT (MAIN STRUCTURE)-35'

PROJECT BIOLOGIST
GARY BLAZEJEWSKI
ECOTONES, INC.
1130 TEN ROD ROAD C-205D
NORTH KINGSTOWN, RI 02852
TEL. & FAX: 401-294-1155

PROJECT SURVEYOR
JAMES J. REDDINGTON, JR.
ALPHA ASSOCIATES, LTD.
35 ROCKY HOLLOW ROAD
EAST GREENWICH, RI 02818
TEL: 401-884-8506
FAX: 401-884-7747

PROPERTY OWNER
TMG VESPIA LANDING, LLC
427 MAIN STREET
EAST GREENWICH, RI 02818

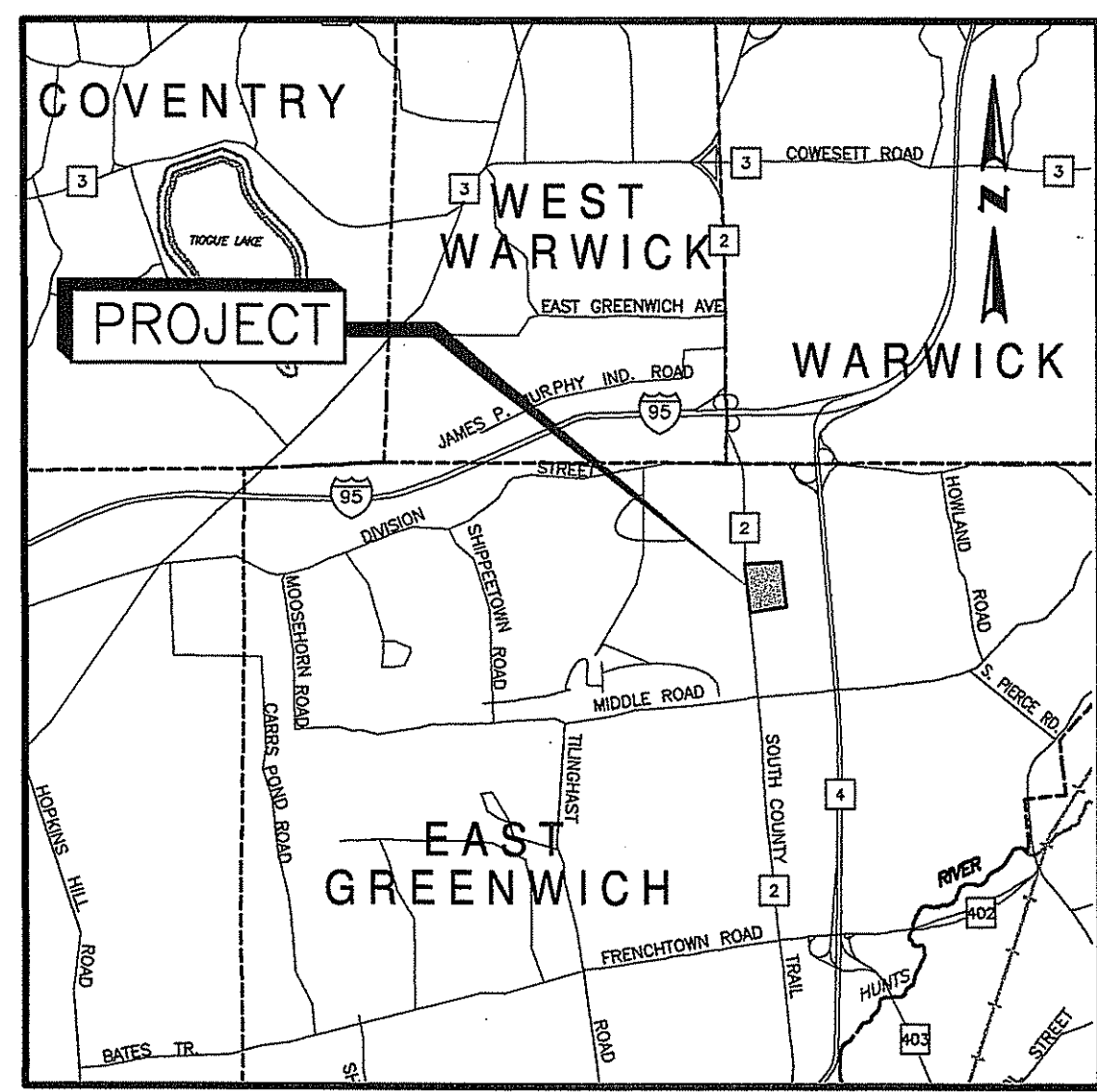
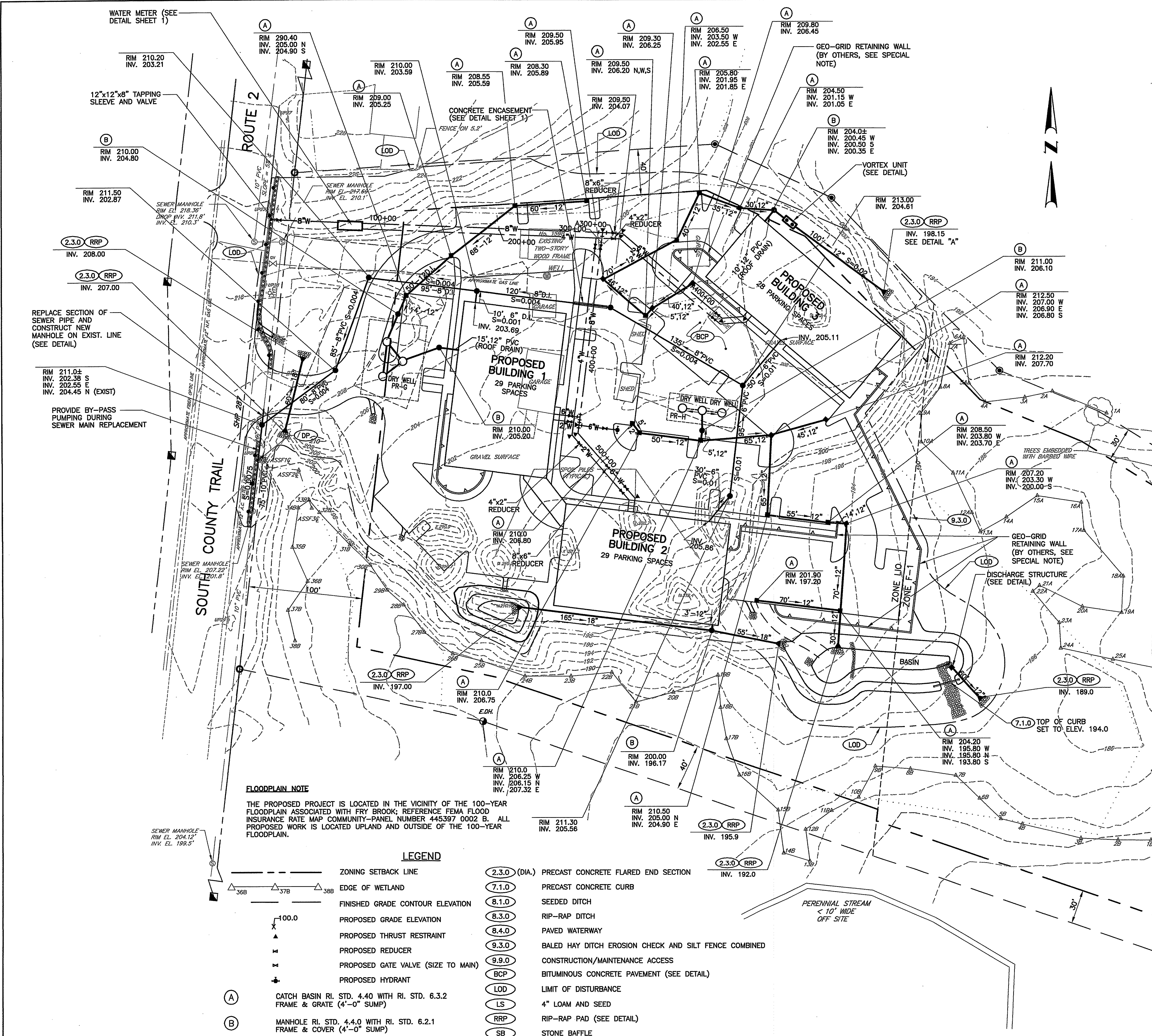
PARCEL APPLICANT
THE MORRIS GROUP, LLC
427 MAIN STREET
EAST GREENWICH, RI 02818

FLOOD NOTE
REFER TO FEMA FIRM PANEL
NO. 445397 0002 B
MAP REVISED FEB 2, 1983

WETLAND NOTE
PARCEL AREA 9.8 AC±
WETLAND VERIFIED BY
RIDEM PERMIT #05-0253
A SERIES 760± L.F.
B SERIES 1260± L.F.
TOTAL 2020± L.F.



P:\FILES\07\REVISED-05\SUB\REVISED\EXISTCOND.DWG, 3/20/07, 10:52:58 AM, LRSBYR, D:\REV\STANDARD SIZE DRAFT\KAL



LOCATION PLAN
SCALE 1"=5000'±

PROJECT
1600 SOUTH COUNTY
EAST GREENWICH
RHODE ISLAND
ASSESSORS PLAT 10C LOT 30

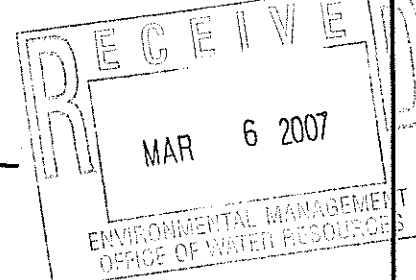
CLIENT
MORRIS GROUP LLC.
GORDON R. ARCHIBALD, INC.
Professional Engineers
200 MAIN ST., PAWTUCKET, R.I.

DRAWING TITLE
DRAINAGE & UTILITY PLAN

NO.	DATE	REVISIONS	BY

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 16 2007 FILE # 07-0095
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Matthew D. Wenzel

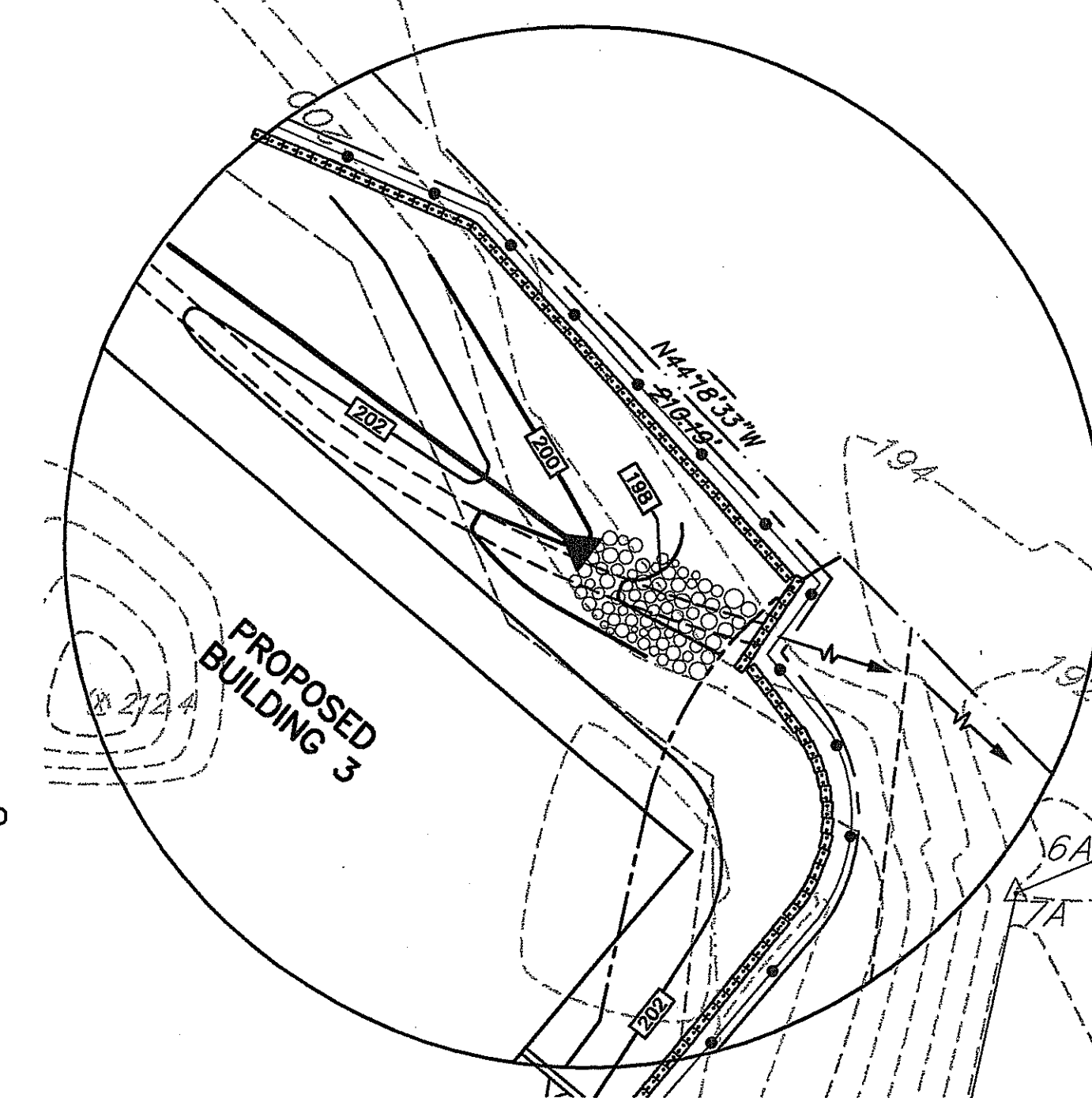
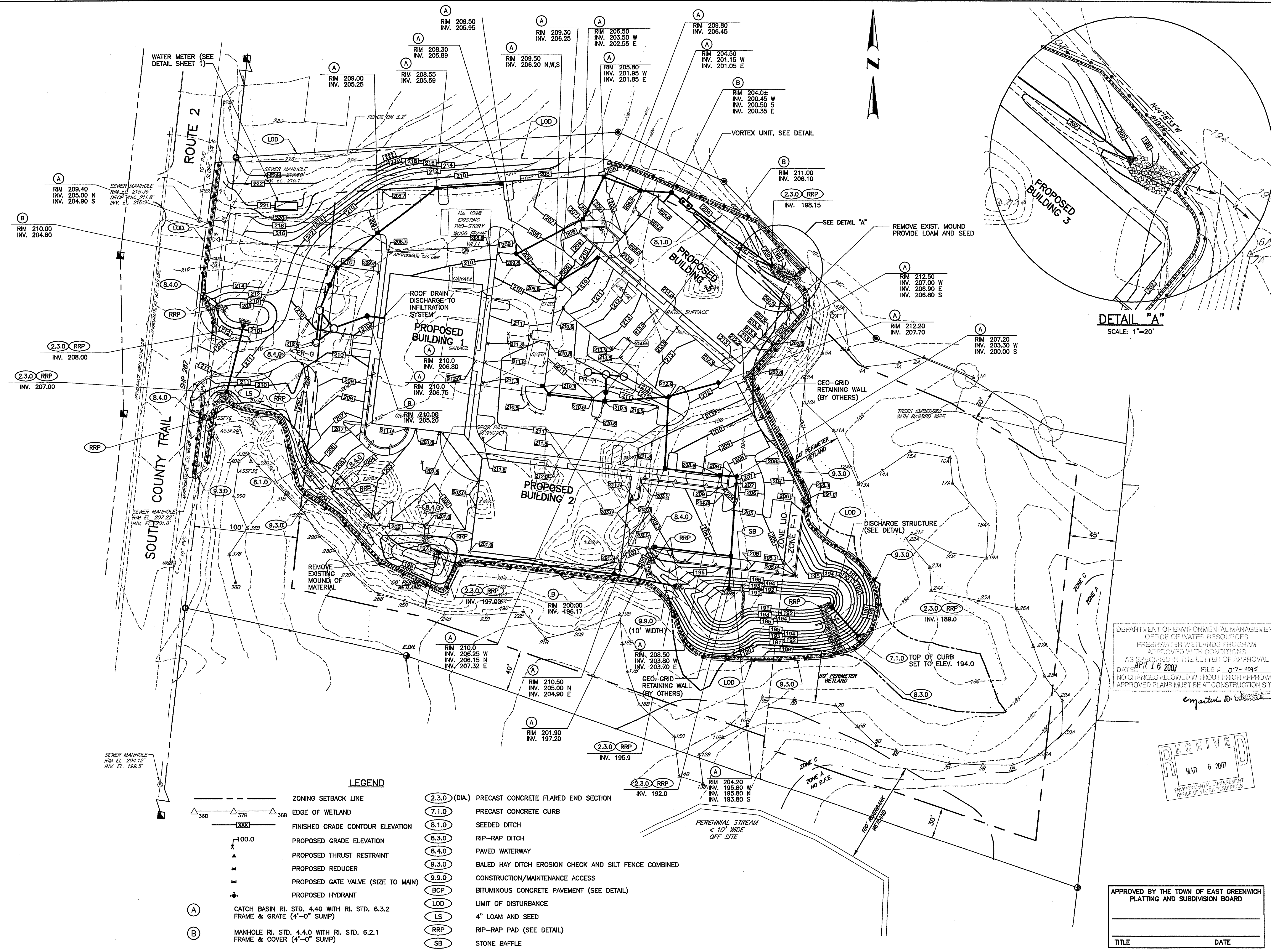


SPECIAL NOTE:
THE RETAINING WALL SHALL BE DESIGNED BY A QUALIFIED GEOTECHNICAL ENGINEER WHO IS A RHODE ISLAND REGISTERED ENGINEER (R.I.P.E.) A COPY OF THE DESIGN SHALL BE SUBMITTED TO EAST GREENWICH DEPARTMENT OF PUBLIC WORKS PRIOR TO CONSTRUCTION OF WALLS. THE WALLS SHALL BE INSPECTION AND CERTIFICATED BY A R.I.P.E. WHO SHALL SUBMIT A WRITTEN CERTIFICATION OF ACCEPTANCE OF THE CONSTRUCTION OF THE WALLS UPON COMPLETION TO TOWN OF EAST GREENWICH DEPARTMENT OF PUBLIC WORKS AND BUILDING DEPARTMENT.

APPROVED BY THE TOWN OF EAST GREENWICH
PLATTING AND SUBDIVISION BOARD

PROJECT NO.:	1078
DATE:	MARCH 2007
SCALE:	1" = 40'
DRAWN BY:	LBD
CHECKED BY:	TAR
DRAWING NUMBER	2
SHEET	2 OF 10

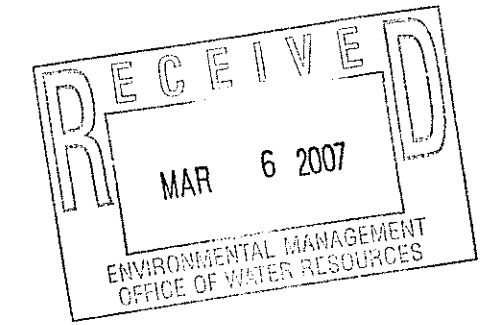
FILED IN THE TOWN OF EAST GREENWICH, RHODE ISLAND, ON MARCH 16, 2007, AT 10:30 AM, BY THE TOWN ENGINEER, JOHN J. BROWN, JR.



DETAIL "A"
SCALE: 1"=20'

- LEGEND**
- ZONING SETBACK LINE
 - △ 36B EDGE OF WETLAND
 - FINISHED GRADE CONTOUR ELEVATION
 - 100.0 PROPOSED GRADE ELEVATION
 - X PROPOSED THRUST RESTRAINT
 - PROPOSED REDUCER
 - PROPOSED GATE VALVE (SIZE TO MAIN)
 - PROPOSED HYDRANT
 - (A) CATCH BASIN RI. STD. 4.40 WITH RI. STD. 6.3.2 FRAME & GRATE (4'-0" SUMP)
 - (B) MANHOLE RI. STD. 4.4.0 WITH RI. STD. 6.2.1 FRAME & COVER (4'-0" SUMP)
 - (2.3.0 (DIA.)) PRECAST CONCRETE FLARED END SECTION
 - (7.1.0) PRECAST CONCRETE CURB
 - (8.1.0) SEEDED DITCH
 - (8.3.0) RIP-RAP DITCH
 - (8.4.0) PAVED WATERWAY
 - (9.3.0) BALED HAY DITCH EROSION CHECK AND SILT FENCE COMBINED
 - (9.9.0) CONSTRUCTION/MAINTENANCE ACCESS
 - (BCP) BITUMINOUS CONCRETE PAVEMENT (SEE DETAIL)
 - (LOD) LIMIT OF DISTURBANCE
 - (LS) 4" LOAM AND SEED
 - (RRP) RIP-RAP PAD (SEE DETAIL)
 - (SB) STONE BAFFLE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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PLATTING AND SUBDIVISION BOARD

TITLE DATE

PROJECT
**1600 SOUTH COUNTY
EAST GREENWICH
RHODE ISLAND**
ASSESSORS PLAT 10C LOT 30

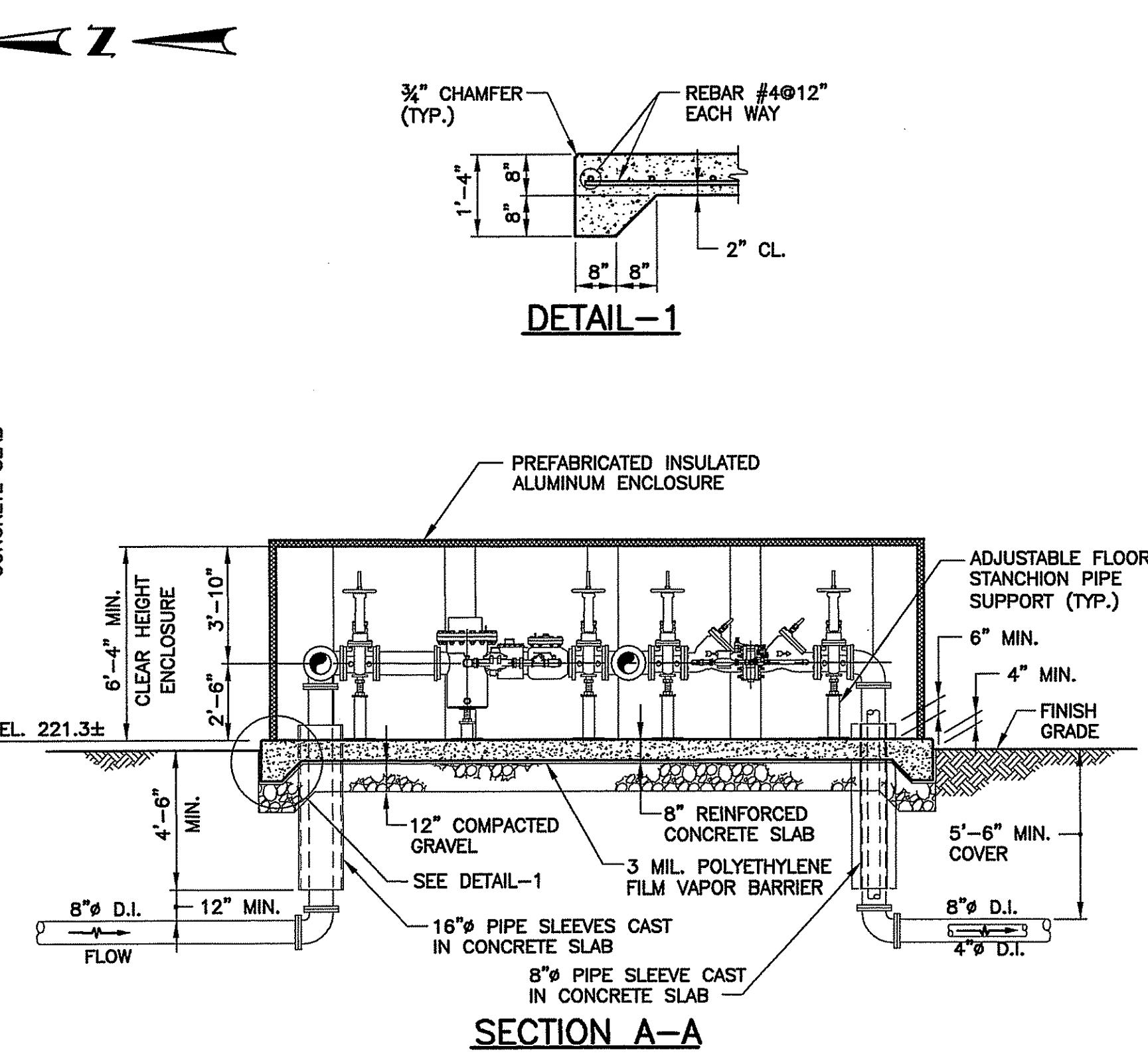
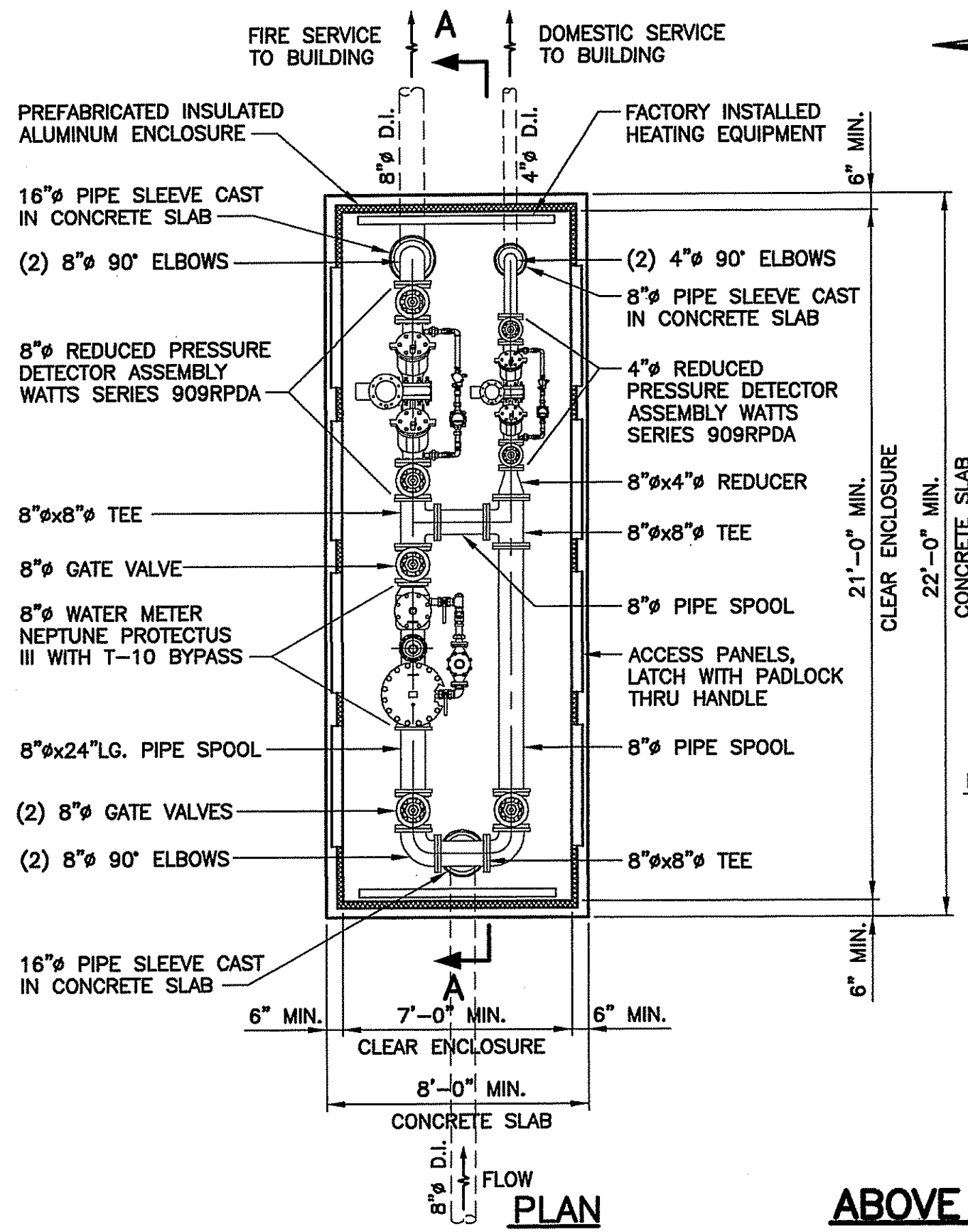
TODD A. RAVENHILL
No. 5928
REGISTERED PROFESSIONAL ENGINEER

CLIENT
MORRIS GROUP LLC.
GORDON R. ARCHIBALD, INC.
Professional Engineers
200 MAIN ST., PAWTUCKET, R.I.

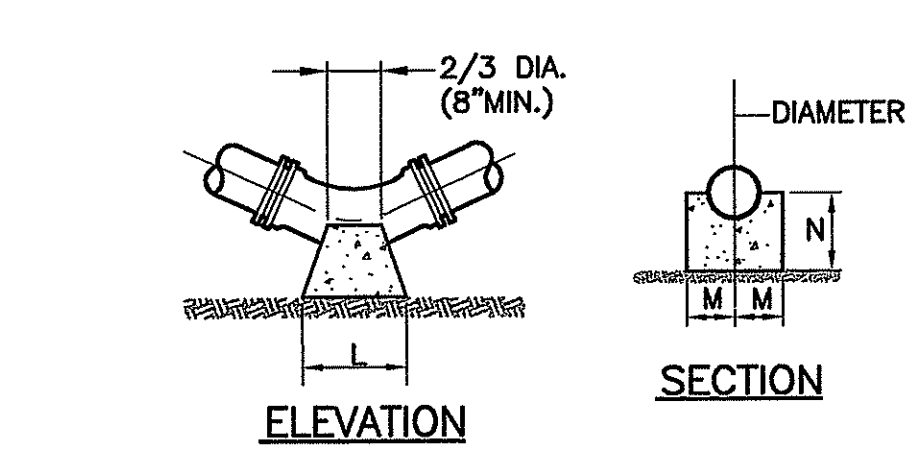
DRAWING TITLE
GRADING PLAN

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1078
DATE: MARCH 2007
SCALE: 1" = 40'
DRAWN BY: LBD
CHECKED BY: TAR
DRAWING NUMBER
3
SHEET 3 OF 10



ABOVE GROUND METER AND BACKFLOW CHAMBER DETAILS
N.T.S.

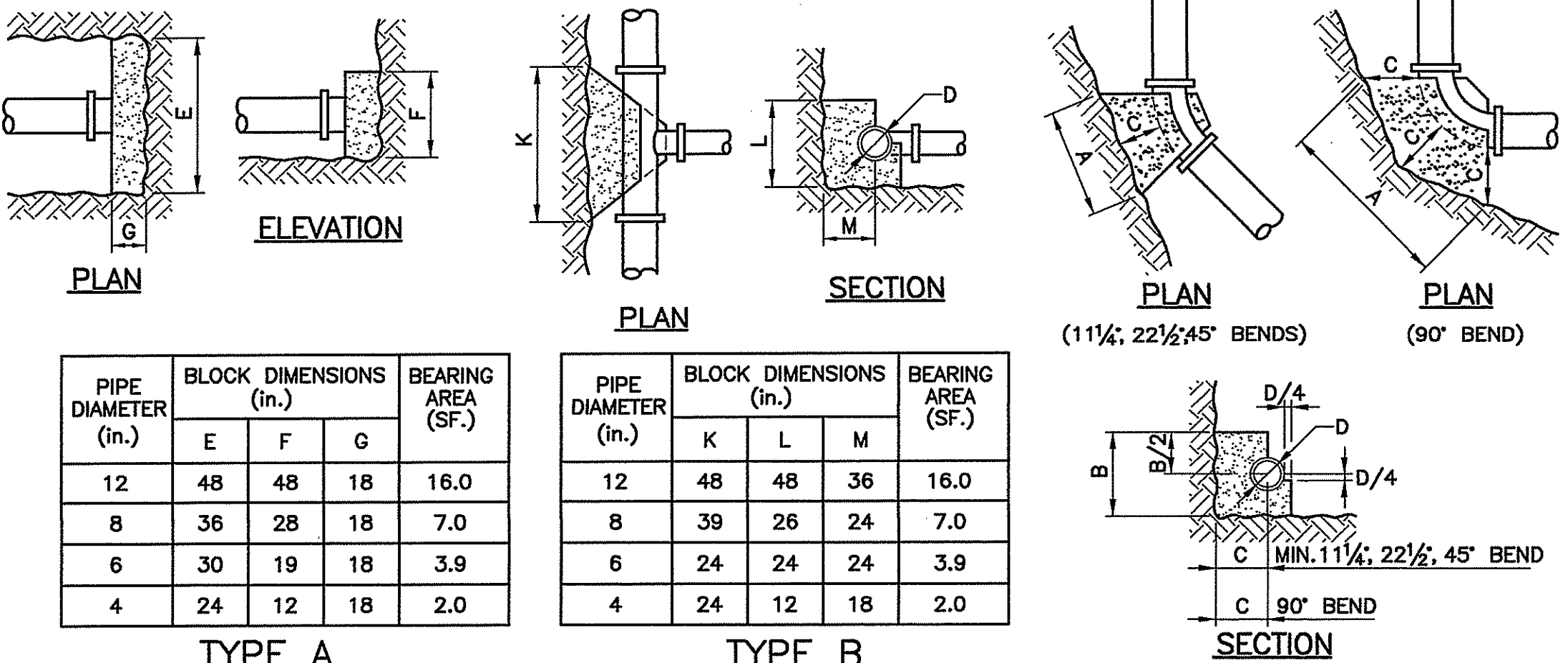


VERTICAL BENDS

- NOTES:**
1. ALL CONCRETE SHALL BE 3000 PSI @ 28 DAYS.
 2. CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH.
 3. ALL FORCE MAIN BENDS, TEES, MAIN TAPS, AND END CAPS SHALL REQUIRE A CONCRETE THRUST BLOCK.

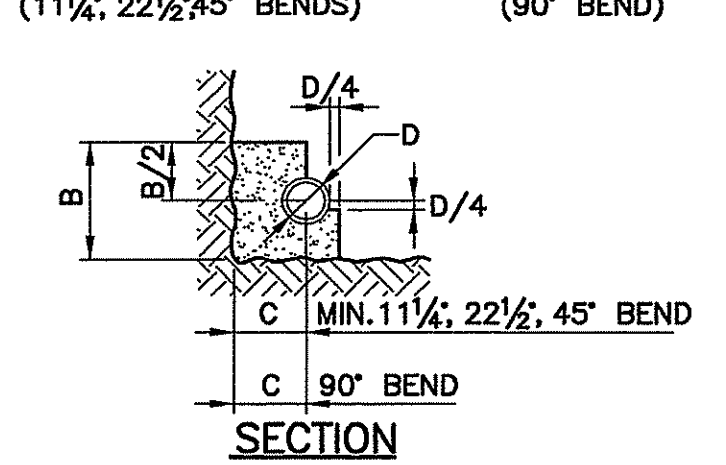
BEND	PIPE SIZE-D (DIA.)		
	6"	8"	12"
1/8	L	1'-3 1/4"	1'-8 1/2"
	M	7"	8"
	N	7"	8"
1/16	L	9"	1'-0 1/4"
	M	7"	7"
	N	7"	7"
1/32	L	6"	8"
	M	7"	7"
	N	7"	7"

BEND	PIPE SIZE-D (DIA.)		
	6"	8"	12"
1/8	R	2'-6 3/4"	0'-8 1/2"
	T	3'-0 1/4"	0'-8 1/2"
	S	2'-0 1/2"	0'-8 1/2"
1/16	R	1'-9 1/2"	3'-2 1/2"
	T	2'-6 3/4"	4'-4 1/2"
	S	1'-6 1/2"	2'-0 1/2"
1/32	R	1'-3 1/4"	1'-9 1/2"
	T	2'-0 1/2"	6'-13 1/2"
	S	2'-0 1/2"	6'-13 1/2"



PIPE DIAMETER (in.)	BLOCK DIMENSIONS (in.)			BEARING AREA (SF.)
	E	F	G	
12	48	48	18	16.0
8	36	28	18	7.0
6	30	19	18	3.9
4	24	12	18	2.0

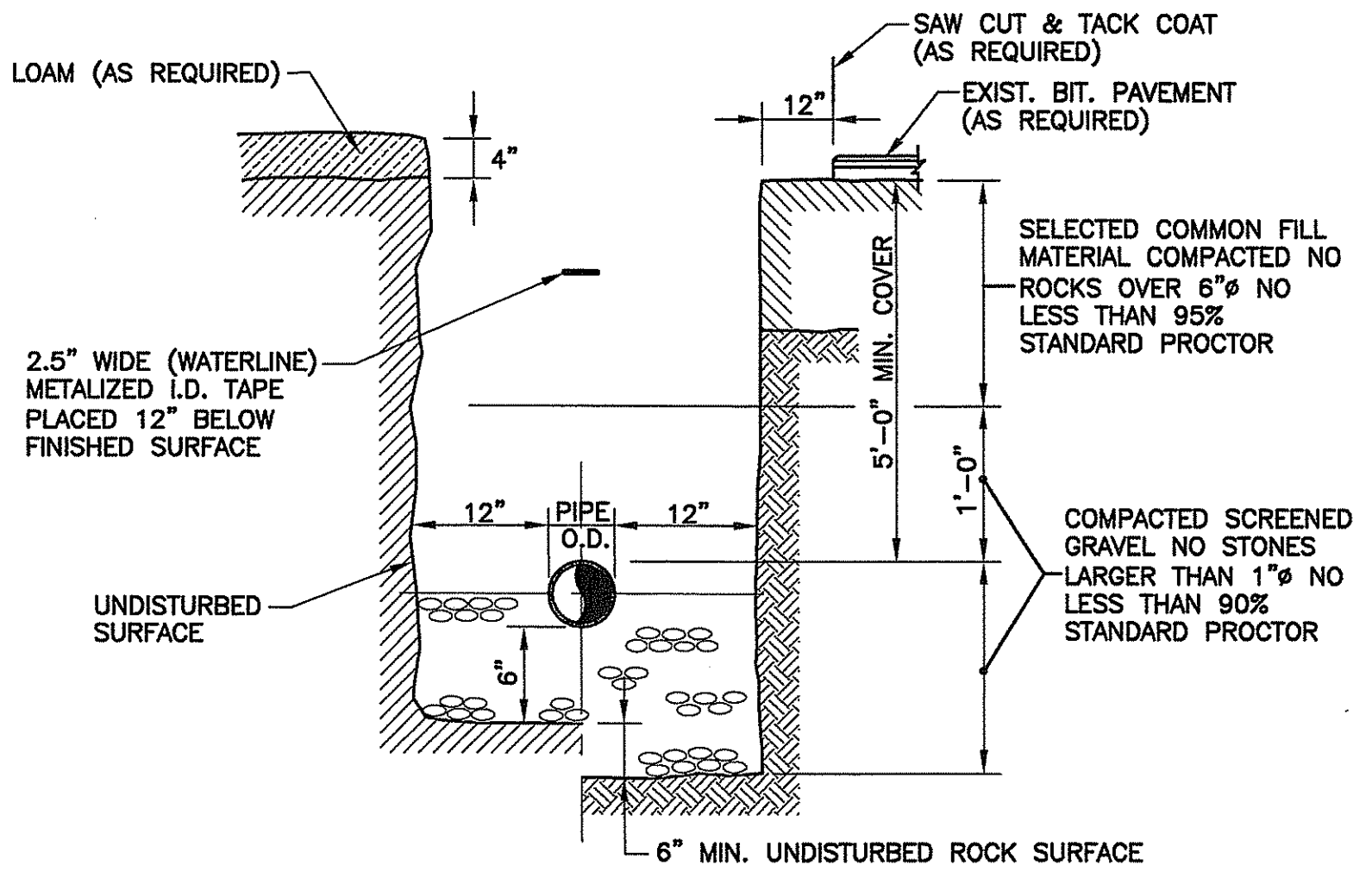
PIPE DIAMETER (in.)	BLOCK DIMENSIONS (in.)			BEARING AREA (SF.)
	K	L	M	
12	48	48	36	16.0
8	39	26	24	7.0
6	24	24	24	3.9
4	24	12	18	2.0



THRUST BLOCK DETAILS
N.T.S.

CHAMBER NOTES:

1. PROVIDE AND INSTALL MANUFACTURED, HEATED, INSULATED ENCLOSURE ABOVE GROUND. THE ROOF, WALLS AND ACCESS PANELS SHALL BE CONSTRUCTED OF MILL FINISH ALUMINUM, ASTM B209. MANUFACTURERS SHALL BE HOT BOX, HOT ROK, VALVE GUARD OR APPROVED EQUAL.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS. REBAR SHALL BE GRADE 60, CONFORMING TO AASHTO M31 (ASTM A615).
3. GRAVEL SUBBASE SHALL BE 12" THICK MINIMUM THROUGHOUT ENTIRE LIMITS OF SLAB AND SHALL BE COMPACTED IN 8" LIFTS TO A MINIMUM OF 95% MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D1557. GRAVEL SUBBASE SHALL CONFORM TO THE RI STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION. 100 PERCENT OF GRAVEL SHALL PASS THE 1/2" SIEVE.
4. STRUCTURAL MEMBERS SHALL BE ALUMINUM, NO WOOD OR PARTICLE BOARD SHALL BE ALLOWED.
5. INSULATION SHALL BE POLYISOCYANURATE FOAM, SPRAY APPLIED, WITH A MINIMUM "R" FACTOR OF EIGHT (8).
6. MULTI-SECTIONAL ENCLOSURE SHALL FIT TOGETHER WITH OVERLAPPING TONGUE AND GROOVE JOINTS AND BE SECURED INTERNALLY WITH MECHANICAL FASTENERS.
7. THE ENCLOSURE SHALL BE SECURELY ATTACHED TO THE CONCRETE SLAB WITH ANCHOR BRACKETS INSTALLED ON THE INTERIOR OF THE ENCLOSURE.
8. ACCESS PANELS SHALL BE PROVIDED TO ALLOW EASY ACCESS FOR OPERATIONS AND MAINTENANCE WITHOUT REMOVAL OF THE ENCLOSURE.
9. DRAIN OPENINGS SHALL BE DESIGNED TO REMAIN CLOSED EXCEPT WHEN THE DEVICE IS DISCHARGING WATER. OPENINGS SHALL ACCOMMODATE MAXIMUM DISCHARGE OF THE BACKFLOW PREVENTION DEVICE AND SHALL PROTECT AGAINST THE INTRUSION OF WIND, DEBRIS AND ANIMALS.
10. HEATING EQUIPMENT SHALL BE FURNISHED AND DESIGNED BY THE MANUFACTURER OF THE ENCLOSURE. TO MAINTAIN AN INTERIOR TEMPERATURE OF +40 DEGREES F WITH AN EXTERIOR TEMPERATURE OF -30 DEGREES F AND A WIND VELOCITY OF 15 MPH. THE FACTORY ASSEMBLED HEATING EQUIPMENT SHALL BE ETL, UL, OR CSA CERTIFIED.
11. ELECTRICAL SERVICE SHALL BE IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES. ELECTRIC POWER SOURCE FOR HEAT AND ACCESSORIES SHALL BE G.F.I. PROTECTED WITH 18" MINIMUM CLEARANCE FROM RECEPTACLE BASE TO TOP OF SLAB AND AT LEAST 6" ABOVE ANY WATER DISCHARGE POINT.
12. MOUNTING HARDWARE SHALL BE STAINLESS STEEL AND PROVIDED WITH THE ENCLOSURE BY THE MANUFACTURER.
13. ASSEMBLY FASTENERS SHALL BE STAINLESS STEEL OR ALUMINUM.
14. ANCHOR HARDWARE SHALL BE ADJUSTABLE UP TO 2" VERTICALLY TO ACCOMMODATE UNEVEN CONCRETE SLAB. ONCE THE ENCLOSURE HAS BEEN SET ON THE SLAB, USE A MASONRY BIT TO DRILL THROUGH BASE MOUNTING HOLES AND INSERT WEDGE ANCHORS AND BOLT FIRMLY TO CONCRETE.
15. INTERIOR PIPING AND VALVE JOINTS TO BE FLANGED.
16. EXTERIOR PIPING, VALVES AND FITTING JOINTS TO HAVE RESTRAINED JOINTS.

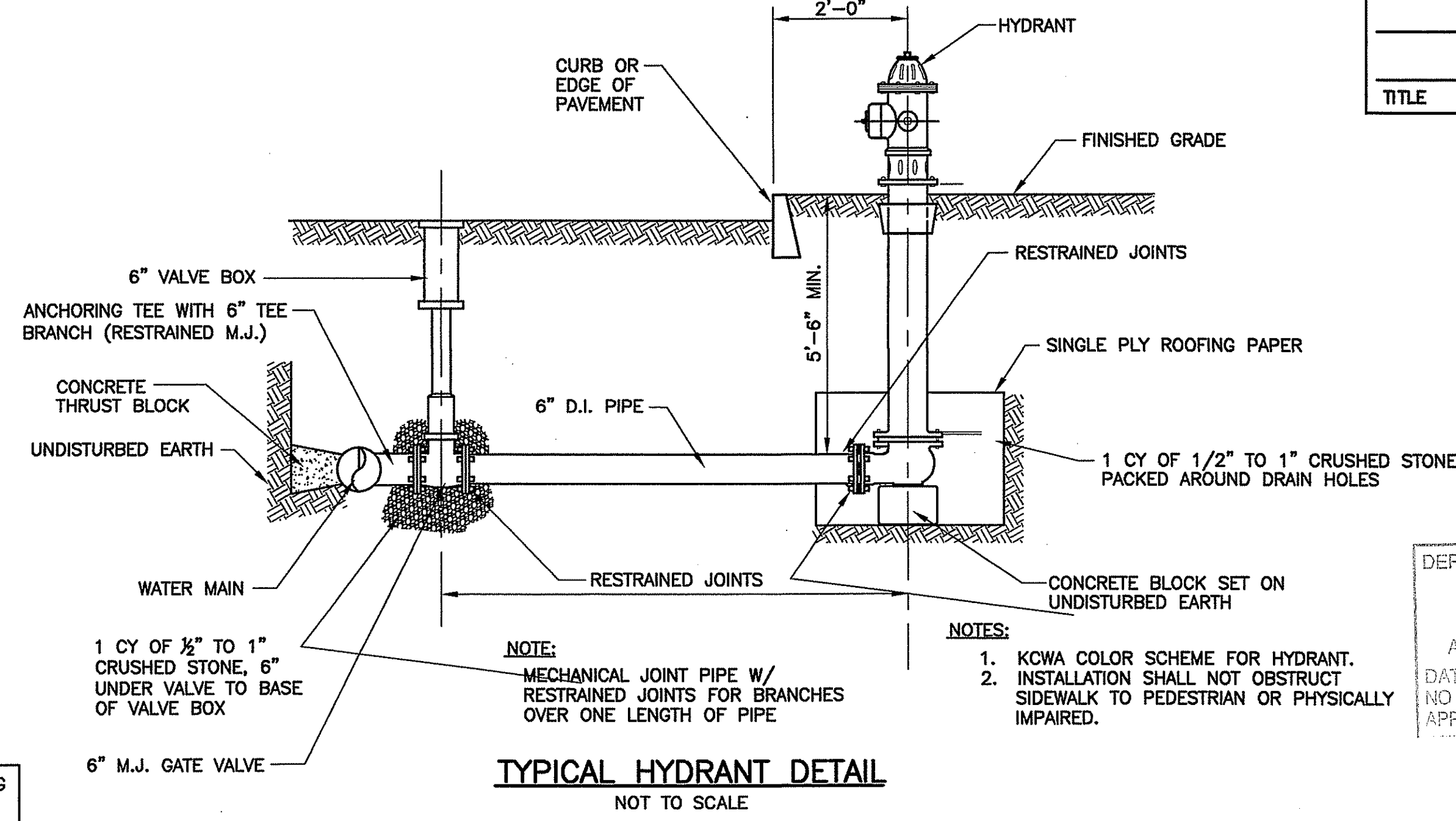


TYPICAL TRENCH DETAIL FOR WATER MAIN AND SERVICES.
NOT TO SCALE

- NOTES:**
1. THE MINIMUM BURY DEPTH FOR DOMESTIC WATER PIPE SHALL BE 5'-0" TO THE PIPE CROWN. FIRE MAIN SHALL BE 5'-6" TO THE PIPE CROWN.
 2. CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE AND IS RESPONSIBLE FOR REPAIR OF ALL UTILITIES DAMAGED OUTSIDE THE LIMIT OF DISTURBANCE.

APPROVED BY THE TOWN OF EAST GREENWICH
PLATTING AND SUBDIVISION BOARD

TITLE _____ DATE _____



TYPICAL HYDRANT DETAIL
NOT TO SCALE

- NOTES:**
1. KOWA COLOR SCHEME FOR HYDRANT.
 2. INSTALLATION SHALL NOT OBSTRUCT SIDEWALK TO PEDESTRIAN OR PHYSICALLY IMPAIRED.

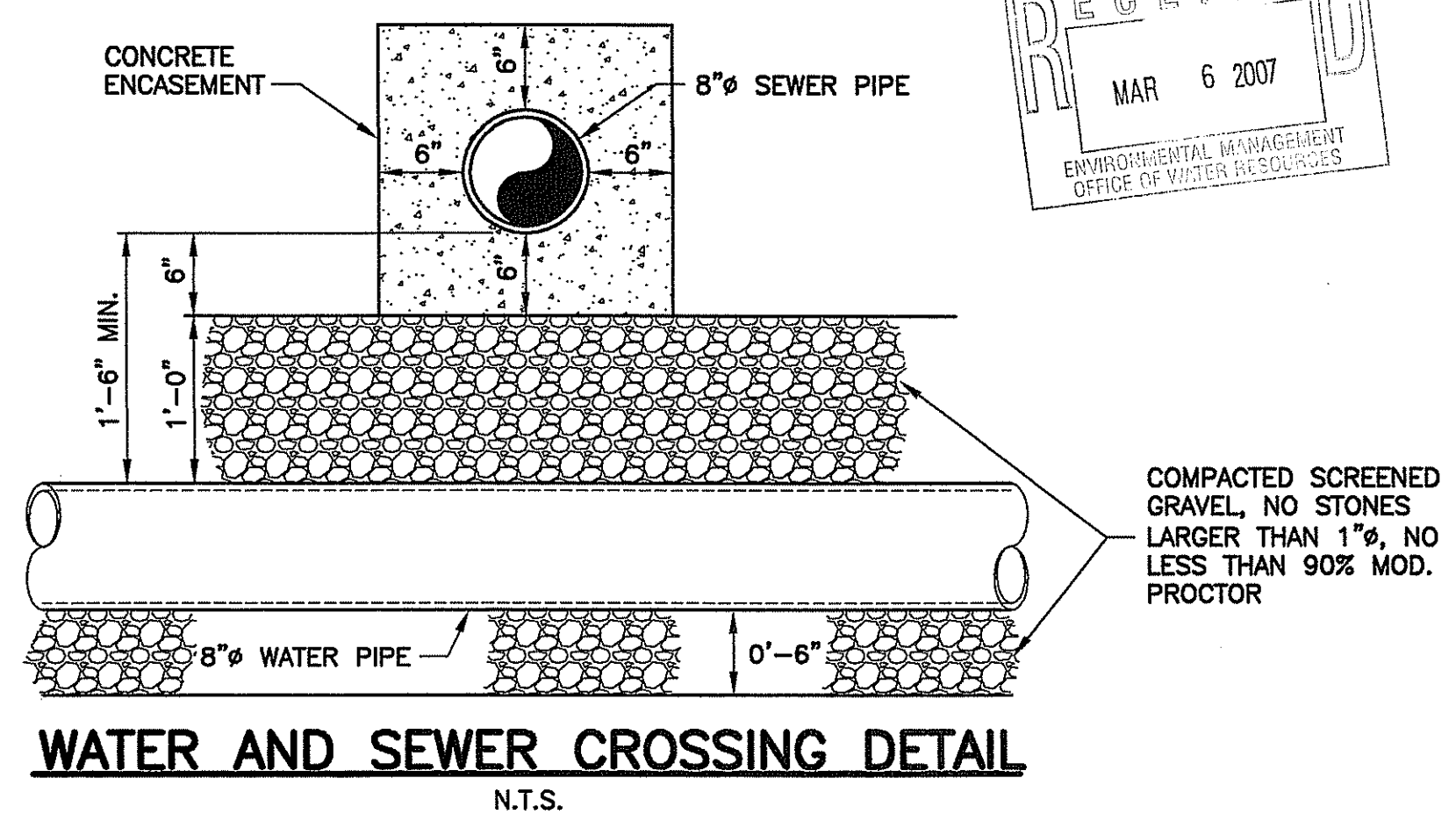
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 16 2007. FILE # 07-0095
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Matthew D. Wenzel

PIPE DIAMETER (in.)	BEND	BLOCK DIMENSIONS (in.)			BEARING AREA (SF.)
		A	B	C	
12	90°	60	48	36	21.0
	45°	42	42	36	11.7
	22 1/2°	36	24	24	6.0
8	90°	38	38	24	9.8
	45°	30	26	24	5.3
	22 1/2°	22	18	24	2.7
6	90°	30	27	18	5.5
	45°	18	18	18	3.0
	22 1/2°	18	18	18	2.2
4	90°	20	18	18	2.5
	45°	18	18	18	2.2
	22 1/2°	18	18	18	2.2

SPECIAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE KENT COUNTY WATER AUTHORITY, LATEST EDITION.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION FOR ROAD AND BRIDGE CONSTRUCTION, WITH ALL ADDENDA.
3. ALL PIPE FITTINGS SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS "MEG-A-LUG" THRUST RESTRAINT WEDGE MANUFACTURED BY EBAA IRON INC. OR EQUAL.



WATER AND SEWER CROSSING DETAIL
N.T.S.

PROJECT
1600 SOUTH COUNTY
EAST GREENWICH
RHODE ISLAND
ASSESSORS PLAT 10C LOT 30

CLIENT
MORRIS GROUP LLC.

GORDON R. ARCHIBALD, INC.
Professional Engineers
200 MAIN ST., PAWTUCKET, R.I.

DRAWING TITLE
DETAIL -- 1

NO.	DATE	REVISIONS

PROJECT NO.: 1078

DATE: MARCH 2007

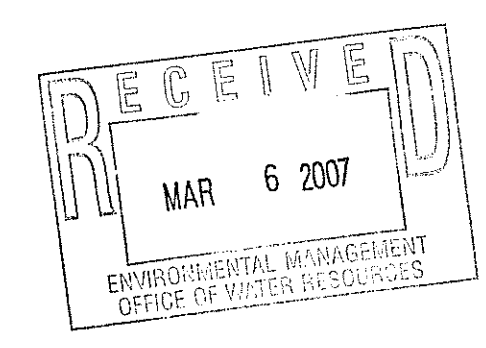
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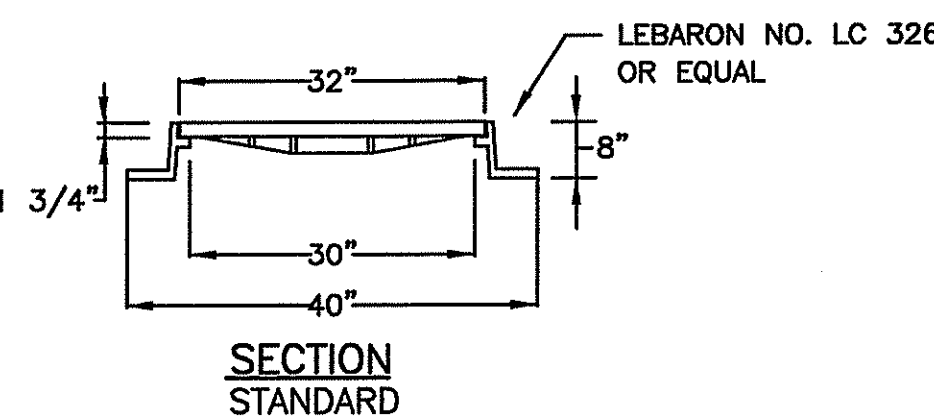
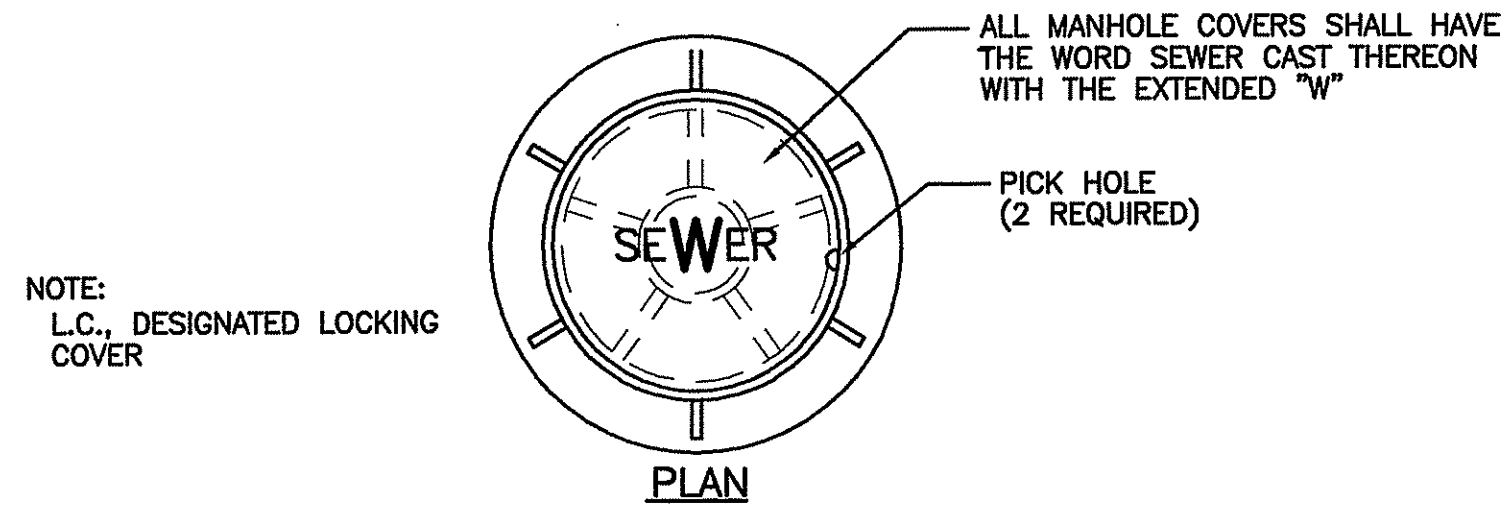
DRAWN BY: LBD

CHECKED BY: TAR

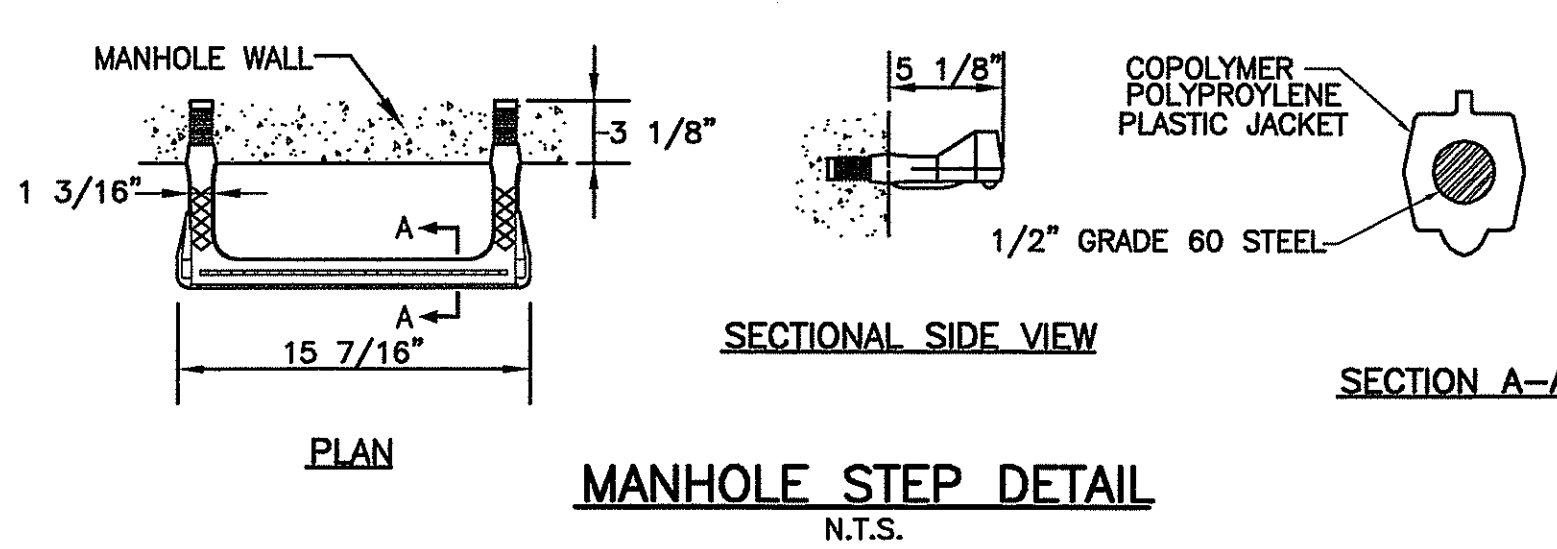
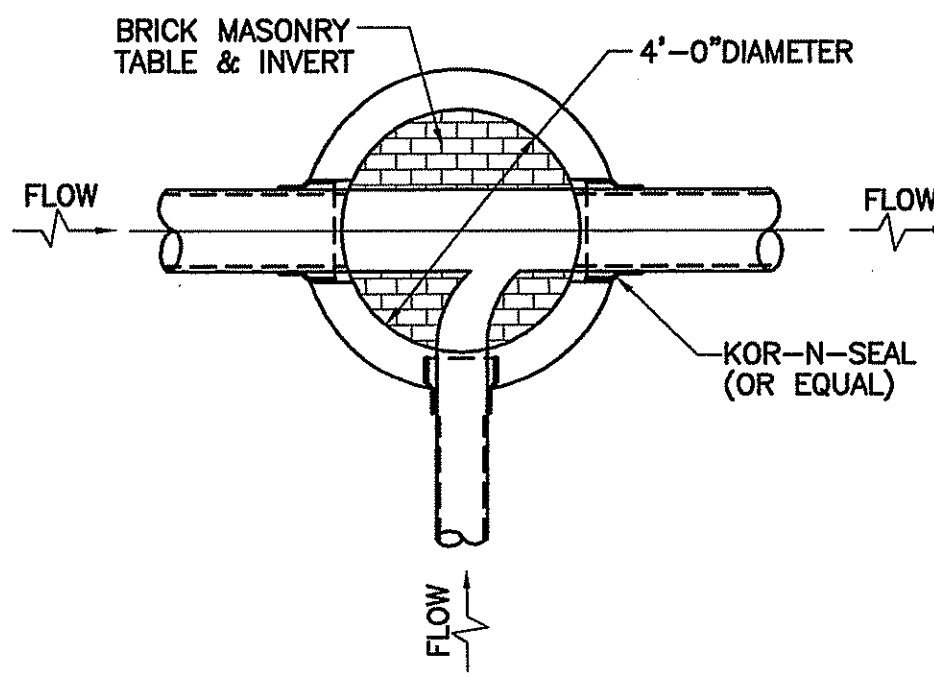
DRAWING NUMBER
4

SHEET 4 OF 10

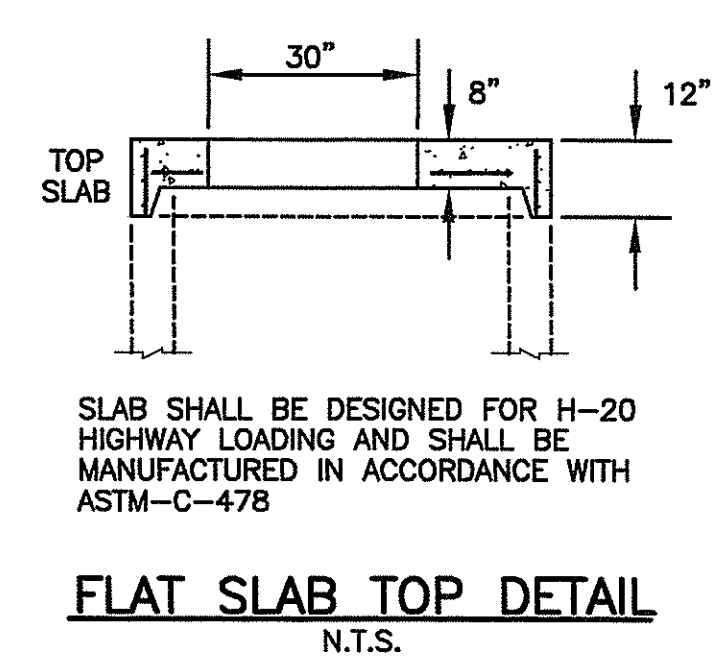




ALL MANHOLES SHALL BE STANDARD COVERS UNLESS OTHERWISE INDICATED ON THE PLANS
MANHOLE COVER DETAILS
N.T.S.

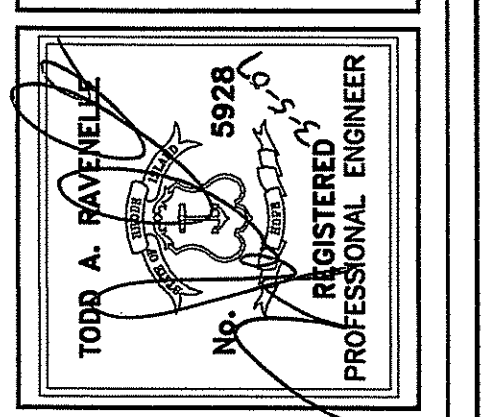


SPECIAL NOTES:
ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE TOWN OF EAST GREENWICH SEWER DEPARTMENT.

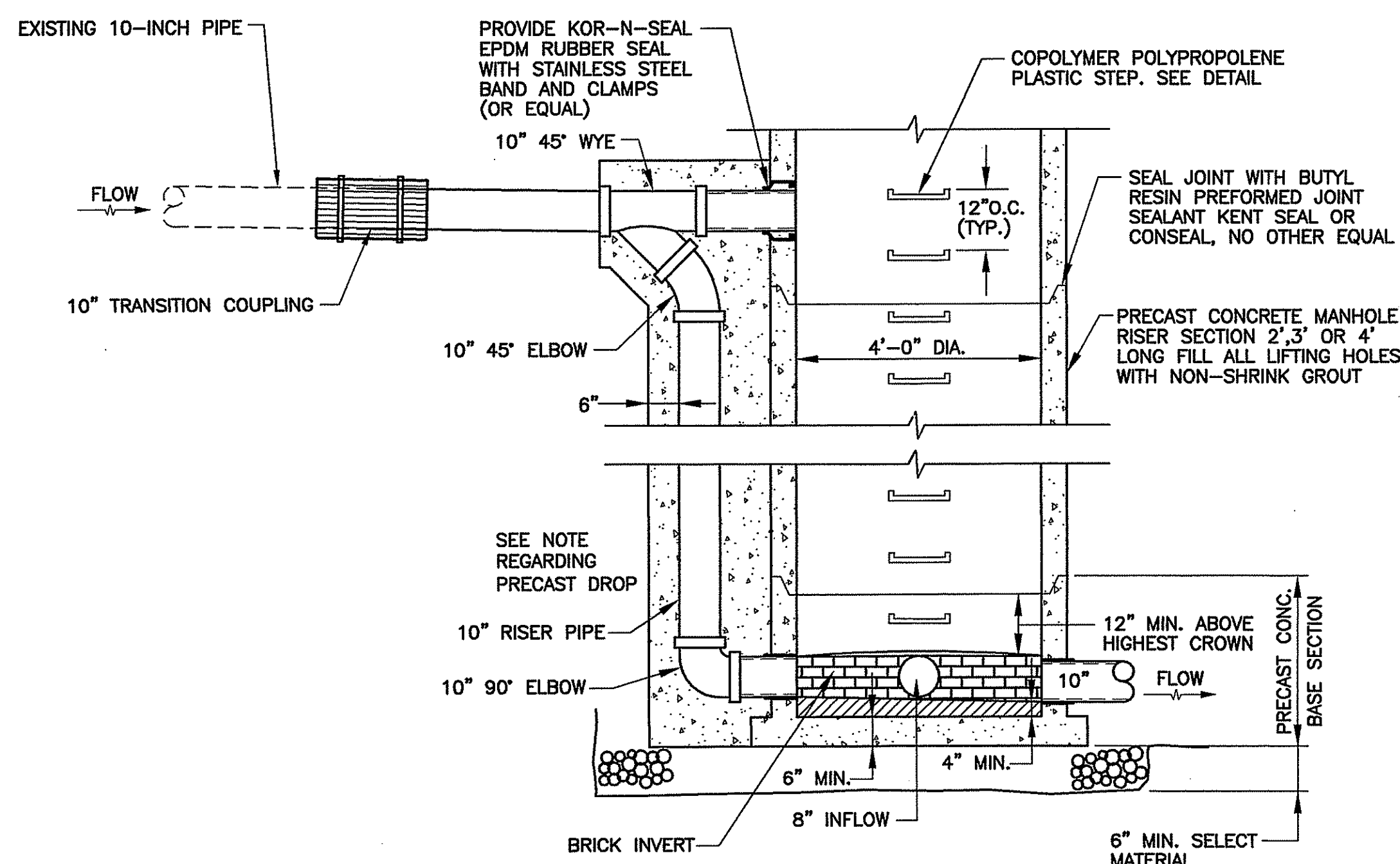


APPROVED BY THE TOWN OF EAST GREENWICH PLATTING AND SUBDIVISION BOARD
TITLE _____ DATE _____

PROJECT
1600 SOUTH COUNTY
EAST GREENWICH
RHODE ISLAND
ASSESSORS PLAT 10C LOT 30



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 16 2007 FILE # 07-0095
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Ernest D. Weneck



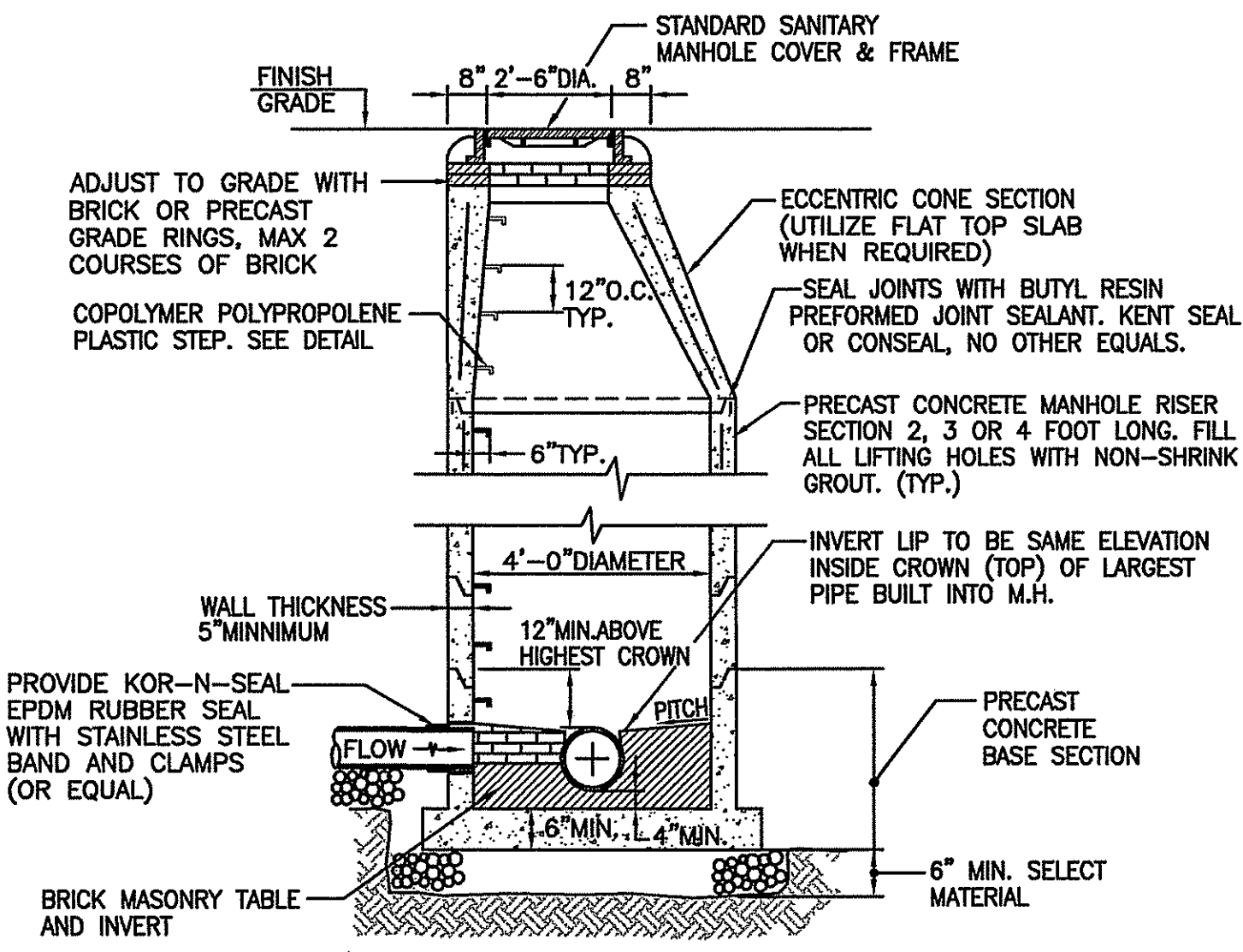
SUGGESTED SEQUENCE OF CONSTRUCTION FOR SEWER INSTALLATION

- PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL CONFIRM EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL VERIFY THE DEPTH AND LOCATION OF EXISTING UTILITIES WITHIN THE ALIGNMENT OF THE PROPOSED SEWER MAIN. THE CONTRACTOR SHALL ALSO CONFIRM THE INVERT ELEVATION OF THE EXISTING SEWER MAIN. THE CONTRACTOR SHALL REPORT ANY VARIATIONS OR CONFLICTS TO THE OWNER.
- PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL SUBMIT A DETAILED DESCRIPTION OF HIS INTENDED METHOD OF CONSTRUCTION, AND STATE ANY DIFFERENCES FROM THE APPROVED SEQUENCE OF CONSTRUCTION. THE CONTRACTOR'S PLAN WILL BE SUBMITTED TO THE TOWN OF EAST GREENWICH FOR APPROVAL.
- WORK SHALL BE SCHEDULED TO AVOID RAINFALL EVENTS WHICH COULD ADVERSELY INCREASE FLOW VOLUMES WITHIN THE SYSTEM DUE TO INCREASED INFILTRATION.
- PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL ENSURE THAT ALL MATERIALS REQUIRED FOR SEWER WORK ARE ON-SITE AND THAT ALL MATERIAL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE TOWN OF EAST GREENWICH.
- THE CONTRACTOR SHALL PROVIDE A TEMPORARY PUMP/ PIPE BYPASS TO DISCHARGE EXISTING SEWER FLOWS AROUND THE LIMIT OF SEWER REPLACEMENT. THE PUMP(S) SHALL BE CAPABLE OF PUMPING AT A RATE OF 1,200 GPM. THIS IS THE MAXIMUM FLOW RATE WITHIN THE EXISTING 10-INCH PIPE WITHOUT SURCHARGE AT A SLOPE OF 0.007 AND MANNING COEFFICIENT OF 0.009. ALL PIPE UTILIZED FOR BYPASS PUMPING SHALL BE SECURED, WATERTIGHT, AND DESIGNED TO PREVENT ANY DISCHARGE OF SEWER EFFLUENT OVER LAND.
- ONCE THE BYPASS PIPE IS IN OPERATION, THE CONTRACTOR SHALL PLUG THE SYSTEM PIPE UPSTREAM AND DOWNSTREAM TO ISOLATE THE PORTION OF PIPE TO BE REPLACED. AT THAT POINT THE CONTRACTOR SHALL REPLACE THE SECTION OF PIPE AND INSTALL THE NEW MANHOLE WITHIN 24 HOURS TO MINIMIZE BYPASS PUMPING.
- UPON COMPLETION OF THE PIPE AND MANHOLE, THE CONTRACTOR SHALL FLUSH THE NEW LINE OF DEBRIS, AND PERFORM AN AIR PRESSURE TEST ON THE NEW MANHOLE AND PIPE FOR ACCEPTANCE BY THE TOWN OF EAST GREENWICH. UPON APPROVAL, TEMPORARY PLUGS AND THE TEMPORARY BY-PASS SHALL BE REMOVED.
- THE OWNER SHALL PROVIDE A 24 HOUR WATCH ON THE BYPASS PUMPING OF THE SEWER MAIN.

CONSTRUCTION OF ON-SITE SEWER

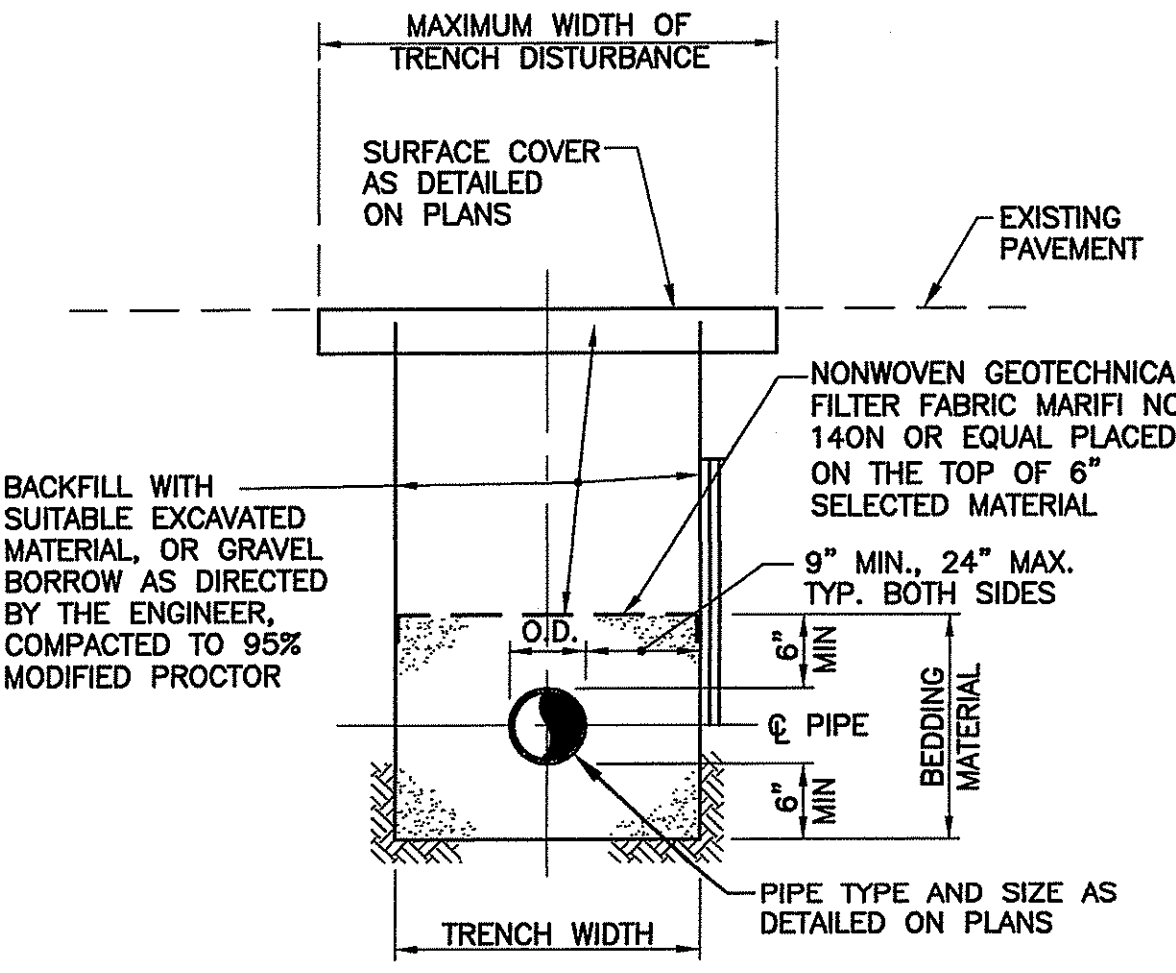
- CONSTRUCTION OF THE "ON-SITE" SANITARY SEWER SHALL CONFORM TO THE TOWN OF EAST GREENWICH REQUIREMENTS.
- PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL ENSURE THAT ALL MATERIALS REQUIRED FOR SEWER WORK ARE ON-SITE AND THAT ALL MATERIALS ARE IN CONFORMANCE WITH THE TOWN OF EAST GREENWICH.
- CONTRACTOR MUST PROVIDE A MINIMUM OF 24-HOUR NOTICE TO THE TOWN OF EAST GREENWICH DPW BEFORE BEGINNING CONSTRUCTION OF ON-SITE SANITARY SEWER.
- UPON COMPLETION OF THE SEWER PIPE AND MANHOLES, THE CONTRACTOR SHALL FLUSH THE NEW LINE OF DEBRIS AND PERFORM AN AIR PRESSURE AND VACUUM TEST ON THE NEW PIPE AND MANHOLES IN ACCORDANCE WITH TOWN OF EAST GREENWICH REQUIREMENTS. SUBMIT A COPY OF TEST RESULTS TO TOWN OF EAST GREENWICH DPW FOR ACCEPTANCE.
- SEWER AS-BUILT PLAN SHALL BE SUBMITTED TO THE TOWN OF EAST GREENWICH DPW UPON COMPLETION OF SEWER CONSTRUCTION.

SANITARY SEWER MANHOLE DETAIL
NOT TO SCALE



EROSION CONTROL NOTES:

- SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. SEDIMENTATION DEVICES SHALL BE FURNISHED, INSTALLED, AND MAINTAINED AS SHOWN ON THE PLANS AND/OR AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL PREVENT THE DISCHARGE AND MIGRATION OF SEDIMENT FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM DEWATERING OPERATION DISCHARGES.
- DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15TH SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
- TEMPORARY TREATMENT OF EXPOSED SURFACES SHALL CONSIST OF HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE MESH, FIBERGLASS NETTING, EXCELSIOR MATTING).
- HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000 - 4,000 LBS./ACRE.
- ALL HAY BALES, SILT FENCE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING MAY BE USED TO MINIMIZE EROSION.
- THE CONTRACTOR MUST REPAIR AND/OR RE-SEED ANY AREA THAT DOES NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST - OCTOBER 15TH.
- SLOPE SURFACES 3:1 OR STEEPER WHICH ARE DISTRIBUTED DURING CONSTRUCTION SHALL BE COVERED WITH JUTE MESH OR EXCELSIOR MATTING TO AID IN STABILIZING THE SLOPES AND PREVENTING EROSION.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL THROUGHOUT THE WORK AREA.
- SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY BY THE CONTRACTOR.
- UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL CLEAN AND FLUSH ALL CATCH BASINS, PUMPING SYSTEMS AND DISCHARGE STRUCTURES IMPACTED BY SEDIMENTATION FROM DEWATERING DISCHARGES.
- BALED HAY EROSION CHECKS SHALL BE INSTALLED AT ALL CATCH BASINS AND INLETS TO TRAP SEDIMENT FROM ENTERING THE SYSTEM. CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE ABUTTING GROUND SURFACES ARE STABILIZED.
- WHERE BALED HAY EROSION CHECKS AND SILT FENCES ARE USED AT CATCH BASINS, THEY SHALL BE REMOVED AT THE END OF WORK AT THAT SITE OR AS DIRECTED BY THE OWNER IN ORDER TO PREVENT CLOGGING OF THE INLET.
- CATCH BASIN RIMS SHALL BE 0.10' LOWER THAN GUTTER GRADE.



TYPICAL TRENCH DETAIL FOR DRAINAGE SEWER LATERALS & SERVICE CONNECTIONS
NOT TO SCALE

- NOTES:**
- BEDDING MATERIAL FOR PIPE SHALL CONFORM TO M.01.04 OF THE RIDOT STANDARD SPECIFICATIONS.
 - CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE AND IS RESPONSIBLE FOR REPAIR OF ALL UTILITIES DAMAGED OUTSIDE THE LIMIT OF DISTURBANCE.

GENERAL NOTES:

- THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION ACTIVITIES WITHIN THE LIMIT OF WORK AREA INDICATED ON THE PLANS.
- ALL WORK SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- THE CONTRACTOR SHALL REMOVE AND CLEAR ALL ABANDONED STRUCTURES AND MATERIALS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES UNLESS SUCH STRUCTURES ARE TO REMAIN PER THE OWNER. ALL DISTURBED SLOPES AND SURFACES PRONE TO EROSION SHALL BE STABILIZED TO THE SATISFACTION OF THE OWNER.
- LOAM FOR SEEDING SHALL BE 4-INCHES DEPTH, AND SHALL CONSIST OF SCREENED LOOSE, FRIABLE, FINE SANDY LOAM OR SANDY LOAM FREE OF SUBSOIL, REFUSE, STUMPS, ROOTS, ROCKS, COBBLES, STONES, BRUSH, NOXIOUS WEEDS, LITTER AND OTHER MATERIALS WHICH ARE LARGER THAN 1-INCH IN ANY DIMENSION AND WHICH WILL PREVENT THE FORMATION OF A SUITABLE SEED BED. ORGANIC MATTER SHALL CONSTITUTE NOT LESS THAN 5-PERCENT NOR MORE THAN 20-PERCENT OF THE LOAM AS DETERMINED BY LOSS-ON-IGNITION OF OVEN DRIED SAMPLES. THE LOAM SHALL HAVE AN ACIDITY RANGE OF 5.5 pH TO 7.6 pH.
- PERMANENT SEEDING SHALL BE RESIDENTIAL SEED MIX OR SLOPE MIX. RESIDENTIAL SEED MIX SHALL BE USED ADJACENT TO LAWN AREAS OR SIDEWALKS, OR AREAS TO BE MAINTAINED. SLOPE MIX SHALL BE USED ON SLOPES GREATER THAN 3:1.

RESIDENTIAL MIX

	% BY WEIGHT	PERCENT BY VOLUME
CHEWINGS FESCUE IMPROVED VARIETIES	30	85
KENTUCKY BLUEGRASS 95/90	30	90
PERENNIAL RYEGRASS IMPROVED VARIETIES	40	90
SEEDING RATE: 150 LBS. PER ACRE		

SLOPE MIX

	% BY WEIGHT	PERCENT BY VOLUME
CREeping RED FESCUE IMPROVED VARIETIES	70	85
PERENNIAL RYEGRASS IMPROVED VARIETIES	15	90
BIRDSFOOT TREFOIL (LOTUS CORNICULATA)	15	78*
SEEDING RATE: 150 LBS. PER ACRE		

* INCLUDES UP TO 20% HARSEED.

- THE DETENTION BASIN SHALL BE SEEDED WITH EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. OF 820 WEST STREET, AMHERST, MASSACHUSETTS. THIS SEED CONTAINS THE FOLLOWING SPECIES: SWITCHGRASS (PANICUM VIRGATUM), VIRGINIA WILD RYE (ELYMIUS VIRGINICUS), CREEPING RED FESCUE (FESTUCA RUBRA), FOX SEDGE (CAREX VULPINOIDEA), CREEPING BENTGRASS (AGROSTIS STOLONIFERA), SOFT RUSH (JUNCUS EFFUSUS), NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE), GRASS-LEAVED GOLDENROD (EUTHAMIA GRAMINIFOLIA), NODDING BUR MARIGOLD (BIENS CERNUA), GREEN BULRUSH (SCIRPUS ATROVIRENS), JOE-PYE WEED (EUPATORIUM MACULATUM), BONESET (EUPATORIUM PERFORIATUM), AND BLUE VERVAIN (VERBENA HASTATA).
- DETENTION BASIN SEED MIX SHALL BE APPLIED BY HYDROSEEDING, BY MECHANICAL SPREADER, OR ON SMALL SITES IT CAN BE SPREAD BY HAND. WHEN APPLYING ON BARE SOIL, RAKE THE SOIL TO CREATE GROOVES, APPLY SEED, THEN LIGHTLY RAKE OVER. THE SEED SHALL BE APPLIED IN THE SPRING OR EARLY FALL. SEED SHALL BE APPLIED AT A RATE OF 35 LBS./ACRE (1245 SQUARE FEET PER POUND).
- FINAL PAVEMENT MARKINGS AND STRIPING SHALL CONSIST OF WATERBORNE PAVEMENT MARKINGS IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL EXCAVATED BITUMINOUS AND CONCRETE PAVEMENT, CURB, AND SIDEWALK.
- THE CONTRACTOR SHALL STRIP ALL ORGANIC AND UNSUITABLE FILL MATERIALS FROM BELOW ALL PROPOSED ROADWAYS, PARKING AREAS, CURBING, STRUCTURES, AND EMBANKMENTS.
- COMMON BORROW SHALL CONFORM TO SECTION M.01.01 OF THE RIDOT STANDARD SPECIFICATIONS AND SHALL BE UTILIZED FOR FILL AND EMBANKMENTS OTHERWISE INDICATED.
- ALL FILLS AND EMBANKMENTS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR AND SHALL BE IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS.

CLIENT
MORRIS GROUP LLC.

GORDON R. ARCHIBALD, INC.
Professional Engineers
200 MAIN ST., PAWTUCKET, R.I.

DRAWING TITLE
DETAIL - 2

PROJECT NO.: 1078

DATE: MARCH 2007

SCALE: AS NOTED

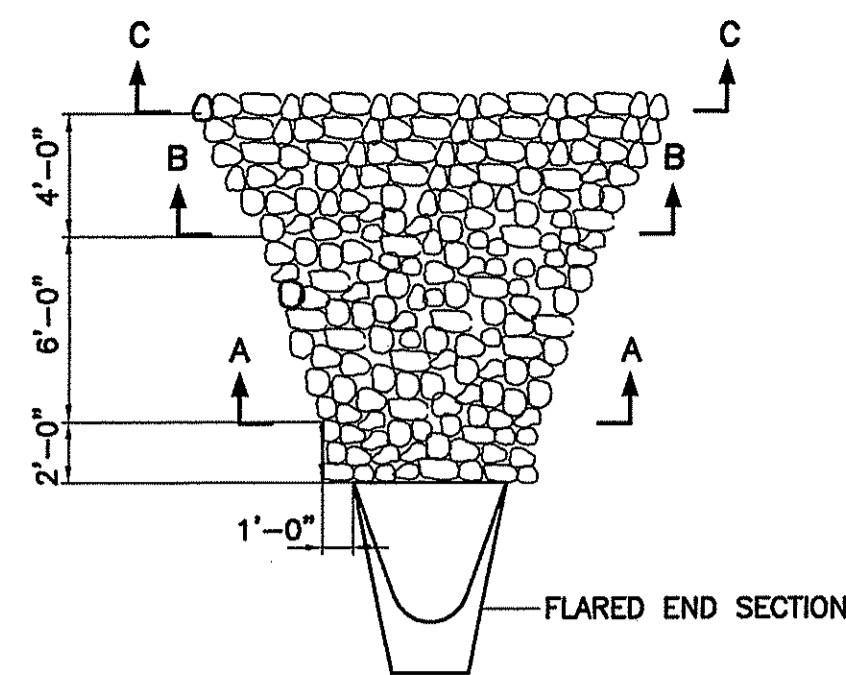
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DRAWING NUMBER

5

SHEET 5 OF 10



WIDTH OF FLARED END SECTION +10'

SECTION C-C

WIDTH OF FLARED END SECTION +6'

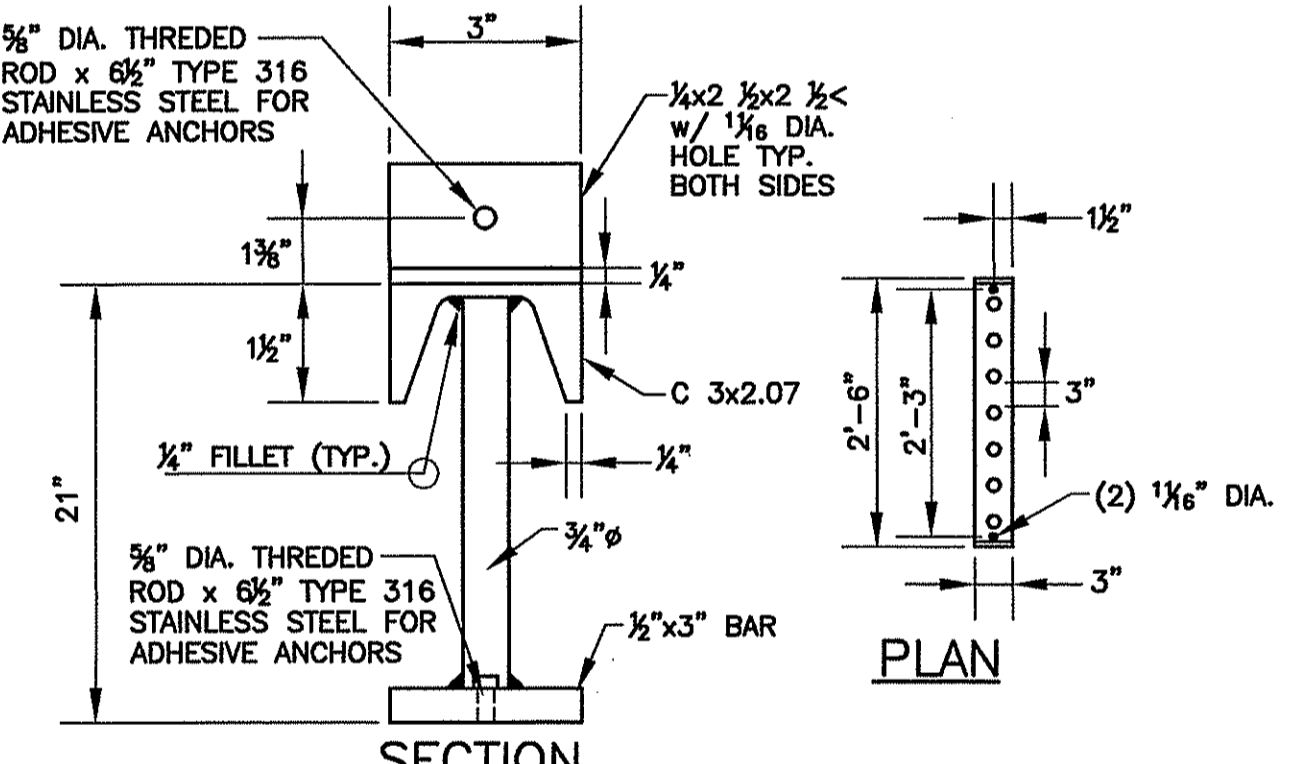
SECTION B-B

WIDTH OF FLARED END SECTION +2'

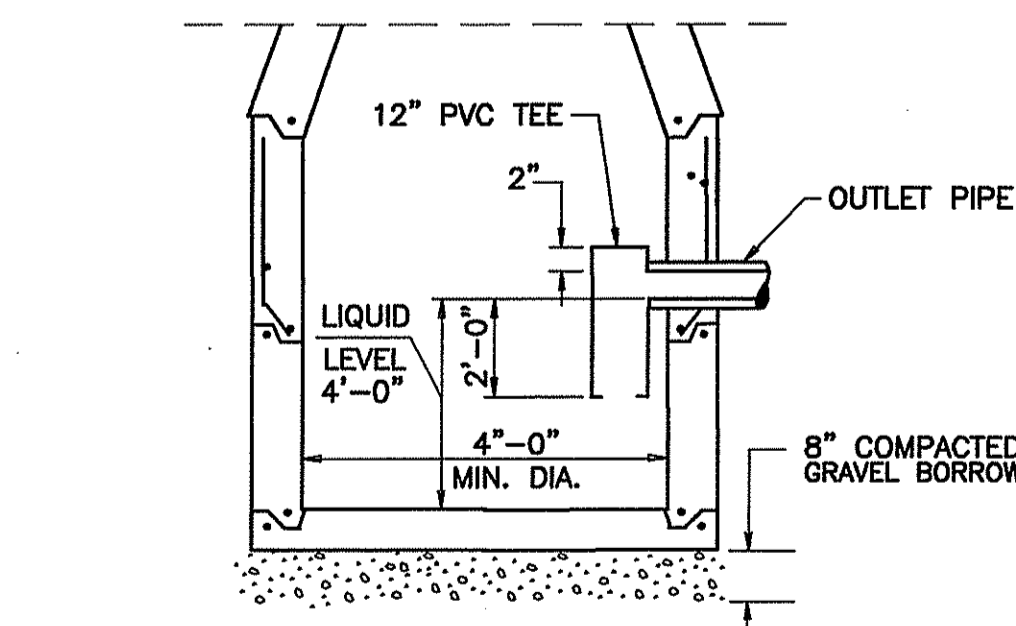
SECTION A-A

RIP-RAP PAD DETAIL (RRP)

- NOTES:**
- RIP-RAP AND BEDDING SHALL BE IN ACCORDANCE WITH SECTION M.10 OF THE RI STD. SPECIFICATIONS FOR BRIDGE AND HIGHWAY. RIP-RAP SHALL BE MODIFIED NSA NO. R-4, BEDDING SHALL BE MODIFIED NSA NO. FS-2.
 - DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
 - UNLESS OTHERWISE SPECIFIED, DUMPED RIP-RAP SHALL BE USED.
 - RIP-RAP SHALL BE EXTENDED WITHIN BASINS AS SHOWN ON THE PLANS.



DEBRIS SCREEN DETAIL (TYPE 6061-T6 ALUMINUM)
NOT TO SCALE

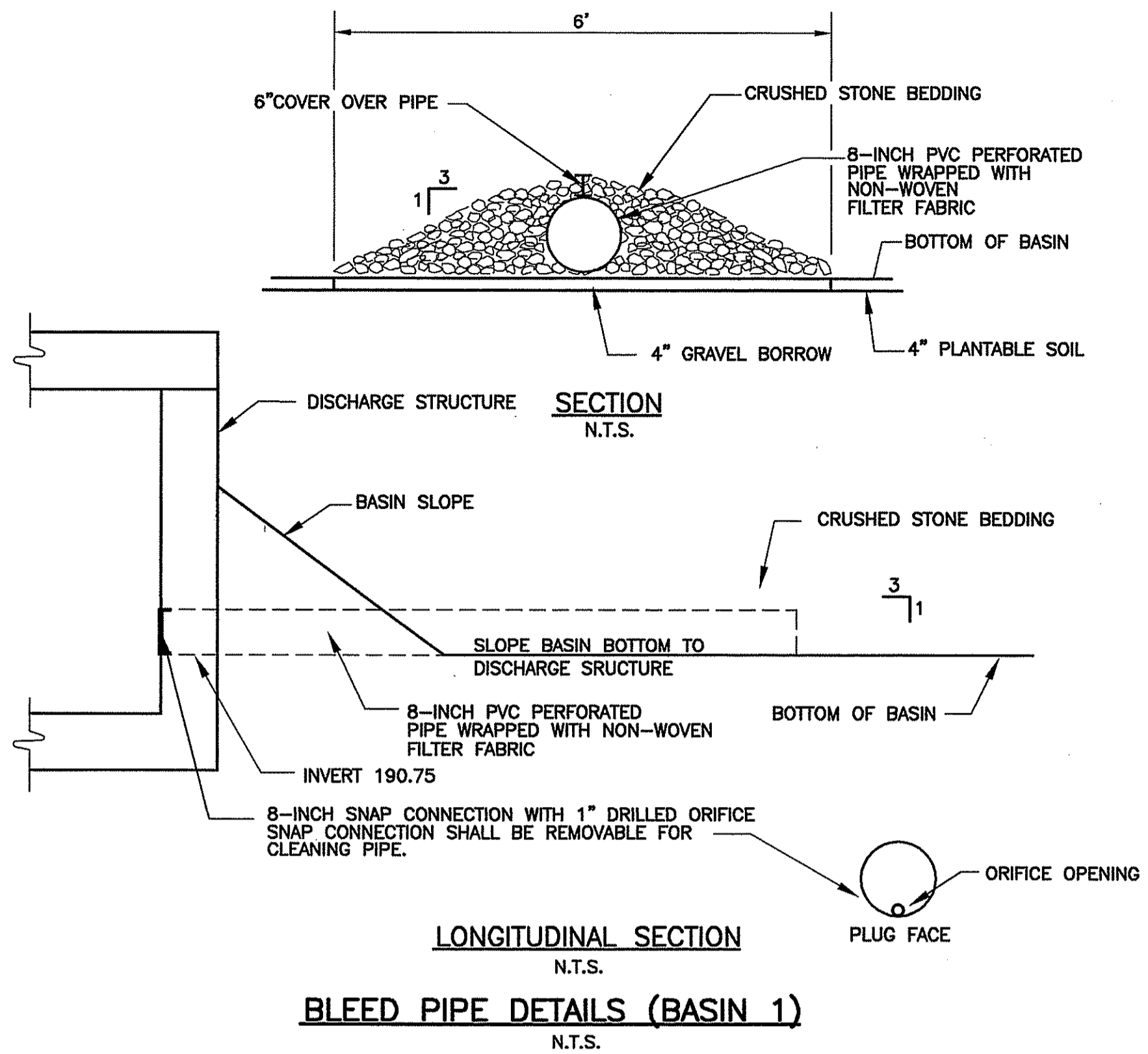


PRECAST CONCRETE CATCH BASIN WITH GREASE AND OIL TRAP
NOT TO SCALE

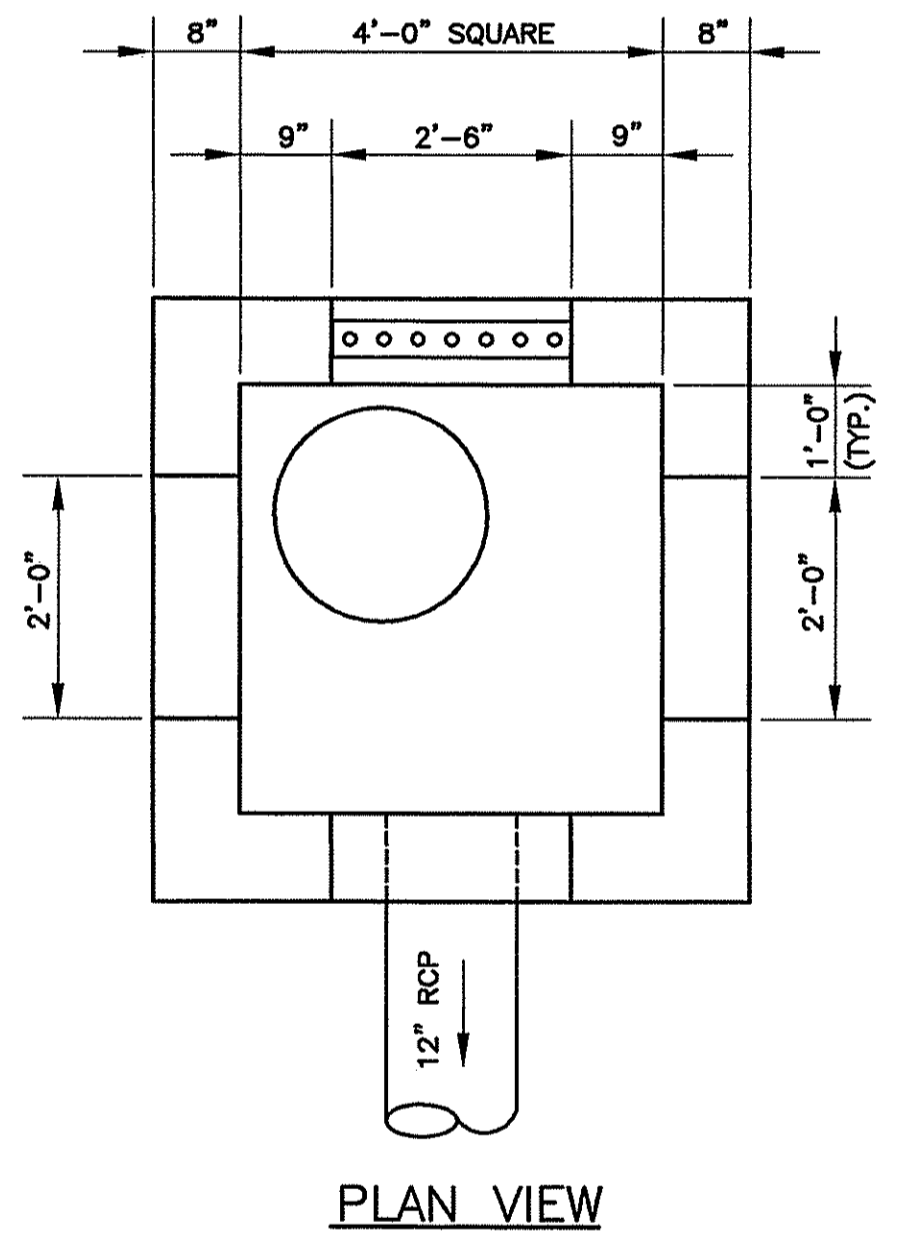
- UTILITY NOTES:**
- THE CONTRACTOR SHALL NOTIFY DIG-SAFE AND THE OWNER A MINIMUM OF 72 HOURS PRIOR TO COMMENCING WORK.
 - THE CONTRACTOR SHALL COORDINATE WITH FOR LOCATING ANY ON-SITE UTILITIES.
 - ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE CAPPED.
 - THE CONTRACTOR SHALL ADJUST ALL UTILITY BOXES, FRAMES, AND COVERS AS REQUIRED TO MATCH FINISHED GRADE.

BASIN MAINTENANCE NOTES

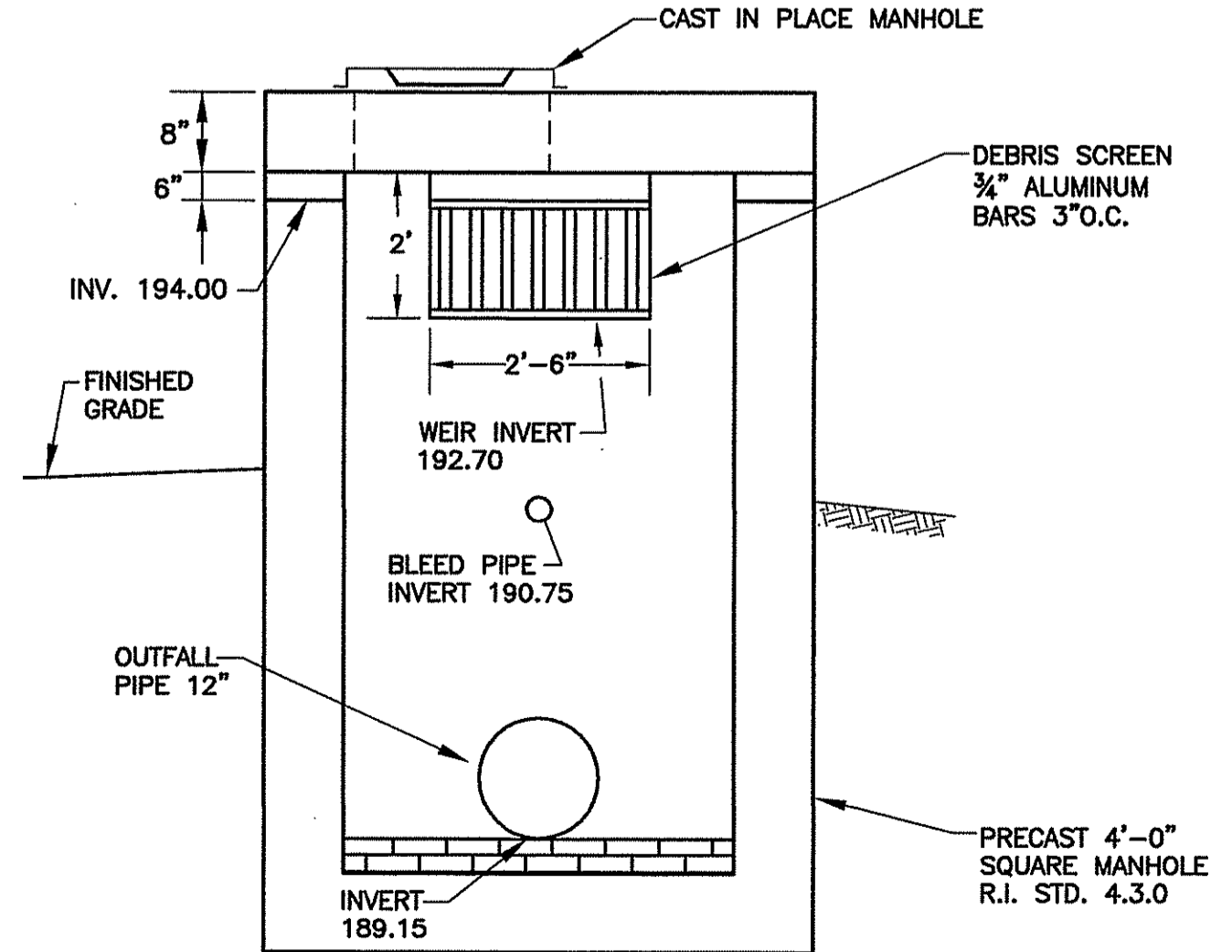
- MAINTENANCE RESPONSIBILITIES OF THE OWNER SHALL INCLUDE BUT NOT BE LIMITED TO:
- MEASURE DEPTH OF ACCUMULATED SILT IN BOTTOM OF BASINS ON A YEARLY CYCLE.
 - REMOVE ACCUMULATED SILT AND SEDIMENT FROM THE BASINS, INLETS AND DISCHARGE STRUCTURES EVERY TEN (10) YEARS, OR MORE FREQUENTLY IF ACCUMULATED DEPTH OF SEDIMENT EXCEEDS 3 INCHES.
 - ALL TRASH, LITTER, DEBRIS AND FOREIGN MATERIALS SHALL BE REMOVED FROM BASINS, INLET AND DISCHARGE STRUCTURES ON AN "AS NEEDED" BASIS AND AT LEAST DURING EACH YEARLY INSPECTION.
 - ALL REMOVED SEDIMENT IS TO BE PROPERLY DISPOSED IN UPLAND AREAS IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
 - SIDE-SLOPES, EMBANKMENTS AND THE UPPER STAGE OF BASINS SHOULD BE MOWED AT LEAST ONCE PER GROWING SEASON.
 - INSPECTORS SHALL FILE A REPORT SHEET FOLLOWING EACH YEARLY SITE INSPECTION. IT IS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN A FILE OF ALL MAINTENANCE PERFORMED AND ALL INSPECTION REPORTS AND SHALL BE SIGNED AND DATED BY PERSONNEL CONDUCTING ON-SITE INVESTIGATIONS. INSPECTION REPORTS SHALL CONTAIN COMMENTS ON THE FOLLOWING:
 - DEM FILE NO.
 - EMBANKMENT INTEGRITY;
 - EROSION;
 - TREE GROWTH;
 - INLET CONDITIONS;
 - OUTLET CONDITIONS;
 - SEDIMENT ACCUMULATIONS;
 - SLOPE STABILITY;
 - DISCHARGE STRUCTURE.
 - ANY DEFICIENCIES NOTED DURING AN INSPECTION SHALL BE REPAIRED OR REPLACED WITHIN 30 DAYS OF DEFICIENCY REPORT. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR MUST BE DONE IMMEDIATELY.



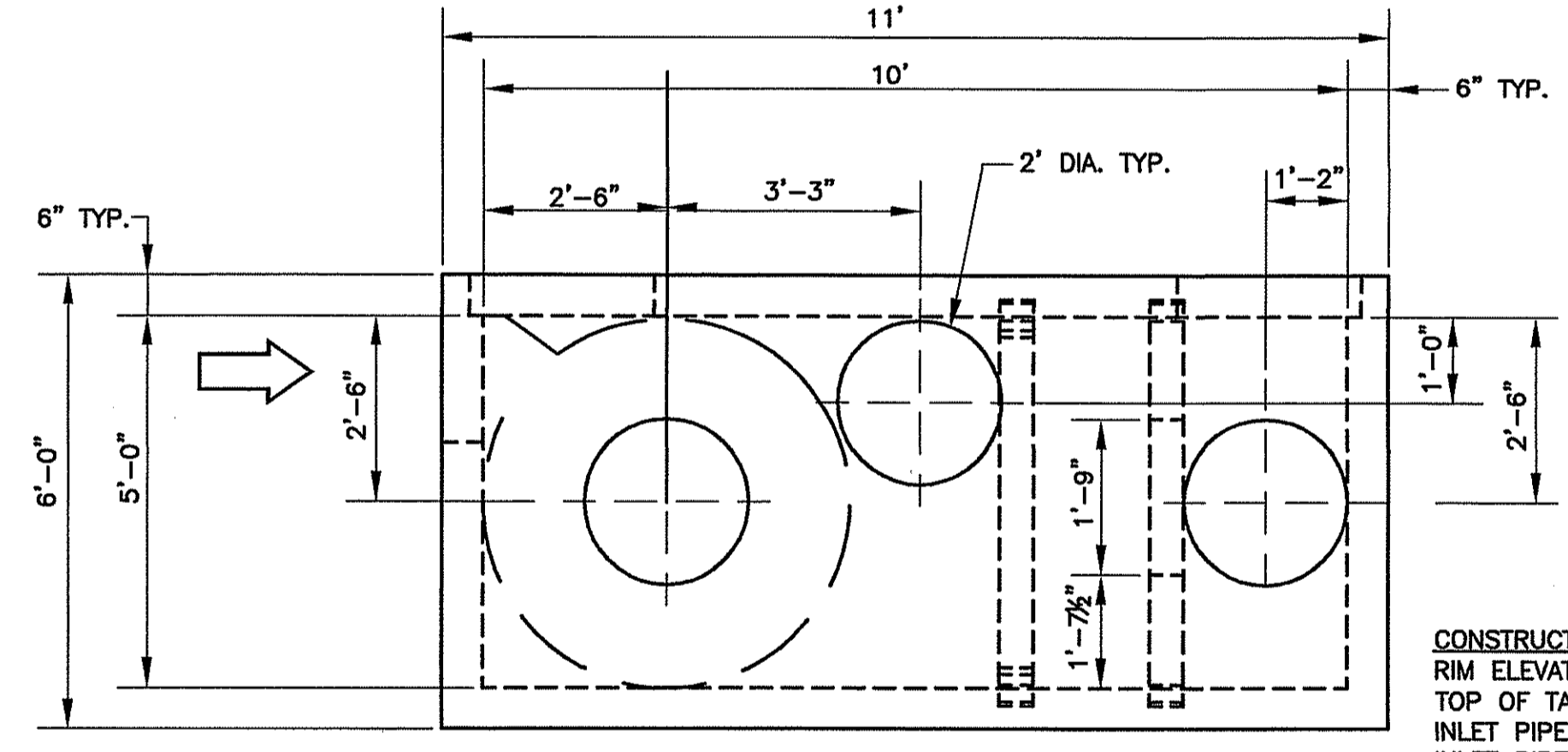
BLEED PIPE DETAILS (BASIN 1)
N.T.S.



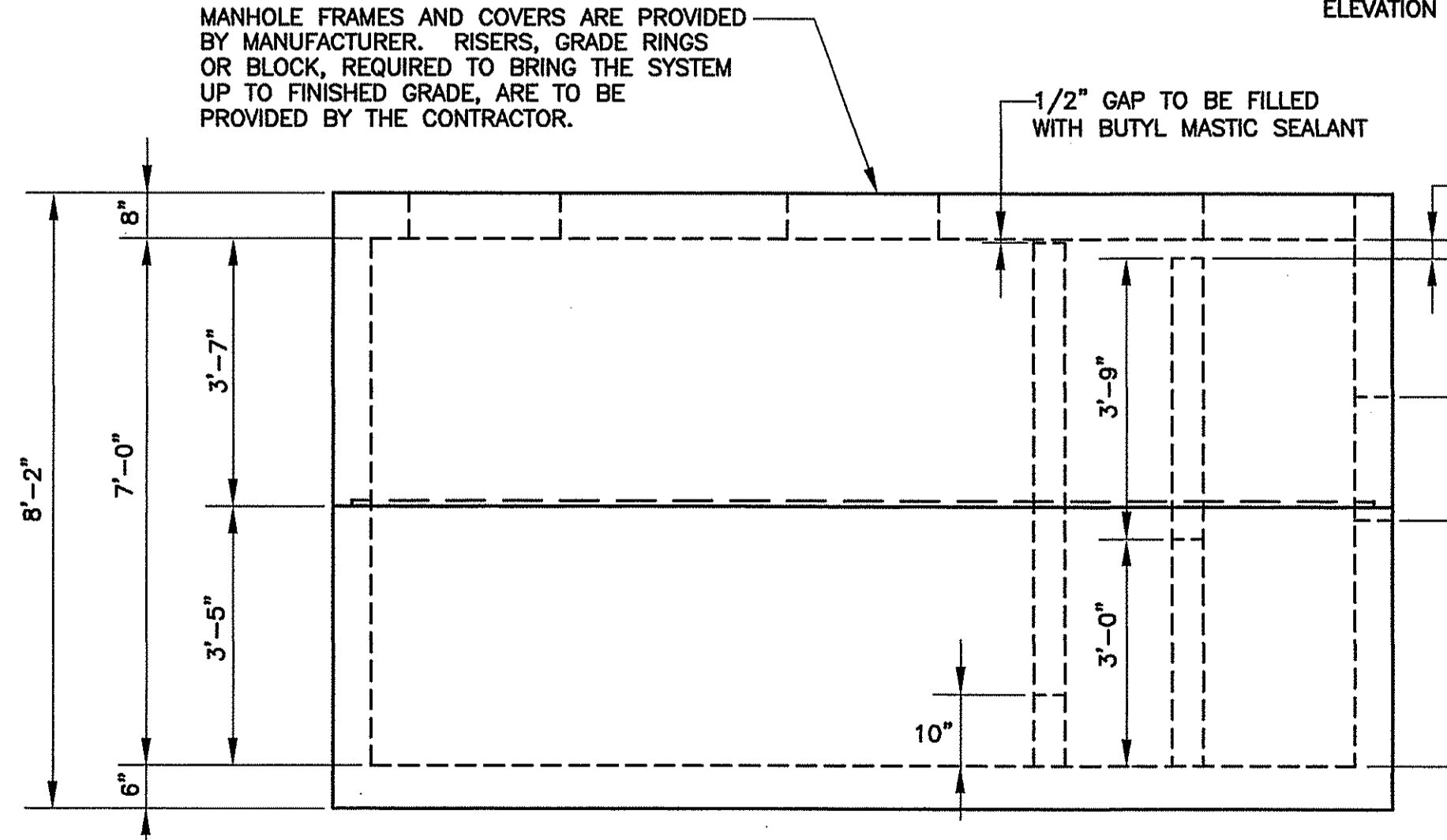
PLAN VIEW



DISCHARGE STRUCTURE
N.T.S.

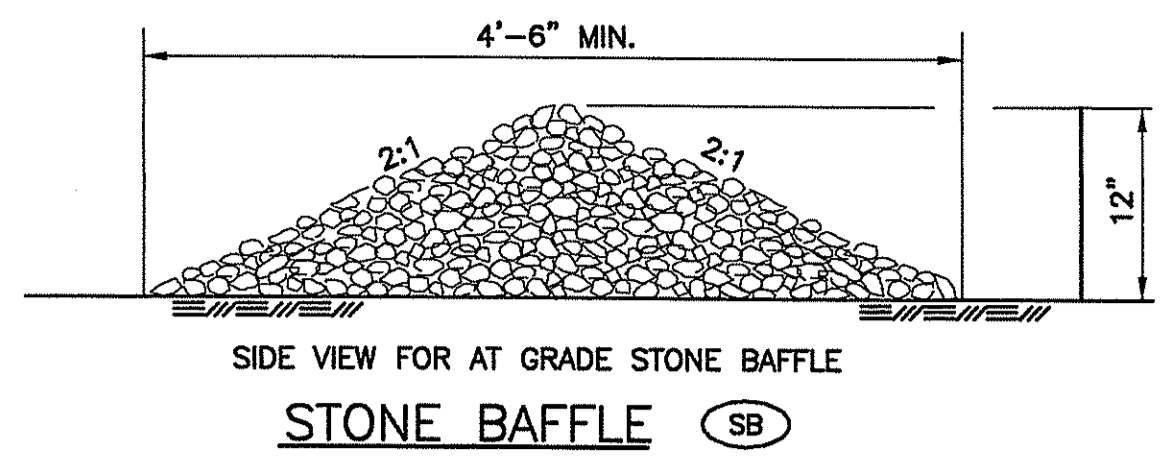


PLAN VIEW

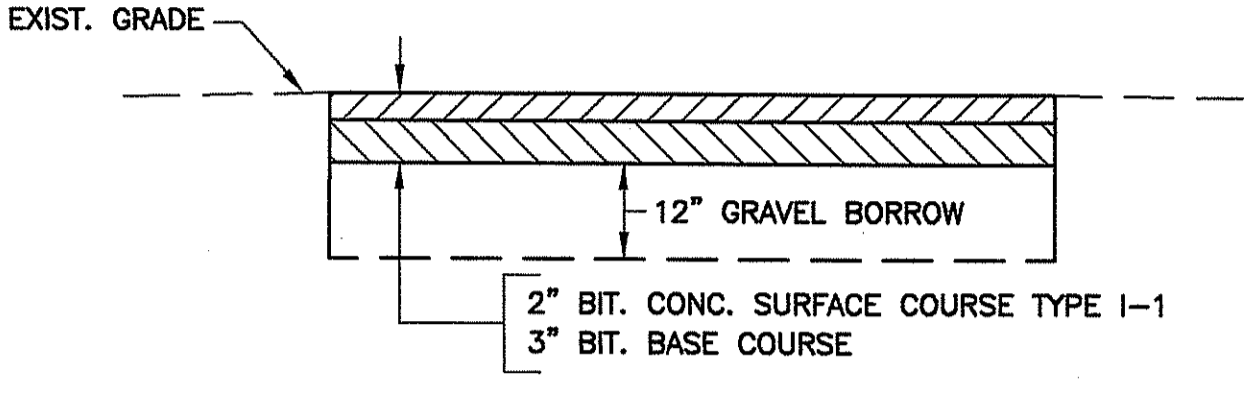


ELEVATION VIEW
(SWIRL CHAMBER NOT SHOWN FOR CLARITY)

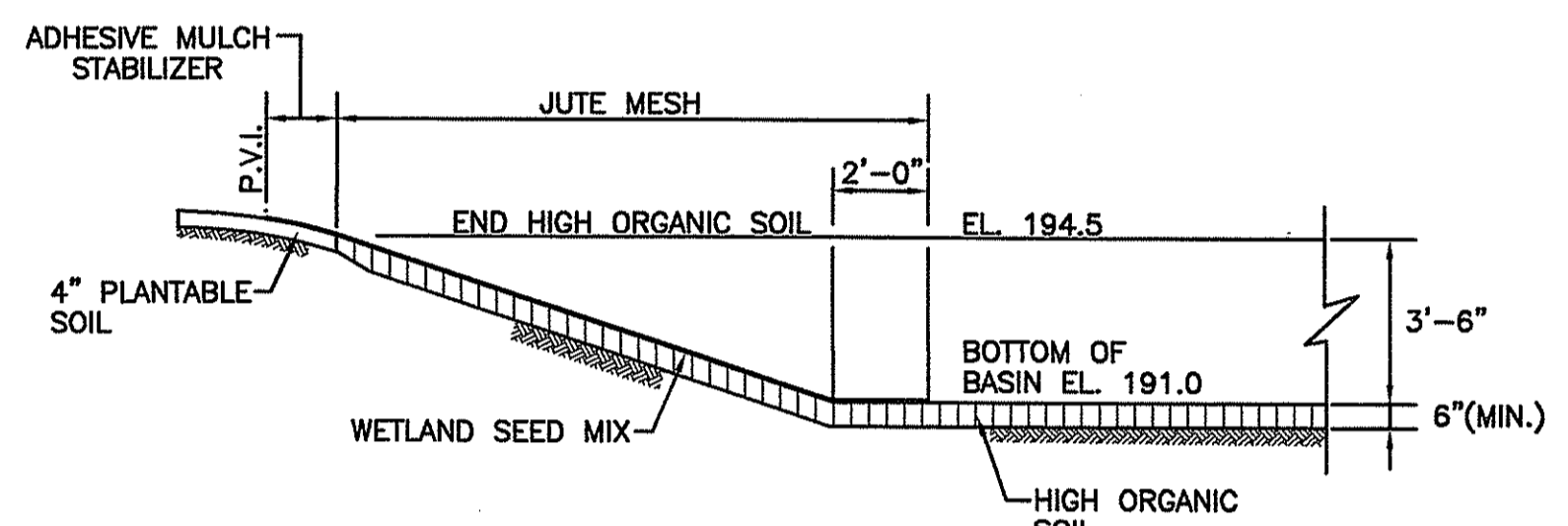
STORM WATER TREATMENT-VORTECH UNIT MODEL 3000
N.T.S.



STONE BAFFLE (SB)



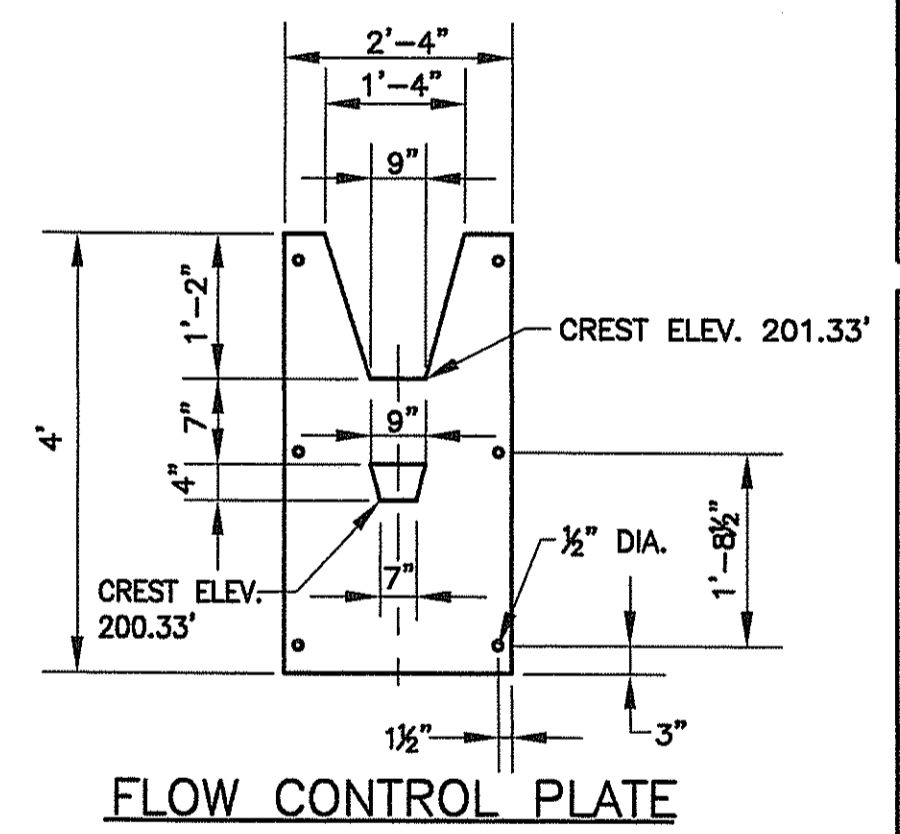
(BCP) PARKING LOT PAVEMENT STRUCTURE
NOT TO SCALE



BASIN DETAIL
SCALE: 1/4" = 1'-0"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 16 2007 FILE # 07-0095
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Imagene S. Wencsek



FLOW CONTROL PLATE

- CONSTRUCTION NOTES**
- RIM ELEVATION = 204.0'±
 - TOP OF TANK ELEVATION = 203.42'
 - INLET PIPE INVERT = 200.25'
 - INLET PIPE = 12" RCP
 - OUTLET PIPE INVERT = 195.25'
 - OUTLET PIPE = 12" RCP
 - OUTSIDE BOTTOM OF TANK ELEVATION = 195.25'

STORMWATER TREATMENT UNIT MAINTENANCE NOTES:

- IN THE FIRST YEAR OF OPERATION, THE STORMWATER TREATMENT UNIT SHALL BE INSPECTED EVERY THREE MONTHS. THE INSPECTION SCHEDULE CAN THEN BE MODIFIED IN SUBSEQUENT YEARS ACCORDING TO EXPERIENCE OR TO MEET SPECIFIC STORMWATER PERMIT REQUIREMENTS. AT A MINIMUM, THE UNIT SHALL BE INSPECTED TWICE A YEAR.
- DURING ROUTINE INSPECTIONS SEDIMENT ACCUMULATION SHALL BE MEASURED BY SLOWLY LOWERING A MEASURING STICK INTO THE CENTER OF THE GRIT CHAMBER UNTIL IT CONTACTS THE TOP OF THE PILE. THE SYSTEM IS FULL AND SHOULD BE CLEANED OUT WHEN THE TOP OF THE PILE IS APPROXIMATELY ONE FOOT BELOW THE DRY WEATHER LEVEL. AT A MINIMUM, THE UNIT SHALL BE CLEANED ONCE A YEAR.
- CLEANOUT OF THE VORTECHS UNIT SHALL BE DONE WITH A VACUUM TRUCK TO REMOVE WATER AND CONTAMINANTS. AS THE GRIT CHAMBER IS PUMPED OUT, THE OIL AND WATER DRAIN BACK INTO THE CHAMBER SO THAT THE OIL SCUM, PARTICULATES, AND FLOATABLES ARE REMOVED ALONG WITH ACCUMULATED SEDIMENTS. MANHOLE COVERS SHOULD BE SECURELY SEALED FOLLOWING CLEANING ACTIVITIES TO ENSURE THAT SURFACE RUNOFF DOES NOT LEAK INTO THE UNIT FROM ABOVE.

APPROVED BY THE TOWN OF EAST GREENWICH
PLATTING AND SUBDIVISION BOARD

TITLE DATE

PROJECT
**1600 SOUTH COUNTY
EAST GREENWICH
RHODE ISLAND**
ASSESSORS PLAT 10C LOT 30

TODD A. RAVENHILL
NO. 5928
REGISTERED PROFESSIONAL ENGINEER

CLIENT
MORRIS GROUP LLC.
GORDON R. ARCHIBALD, INC.
Professional Engineers
200 MAIN ST., PAWTUCKET, R.I.

DRAWING TITLE	REVISIONS	NO.	DATE
DETAIL 3			

PROJECT NO.: 1078

DATE: MARCH 2007

SCALE: 1" = 40'

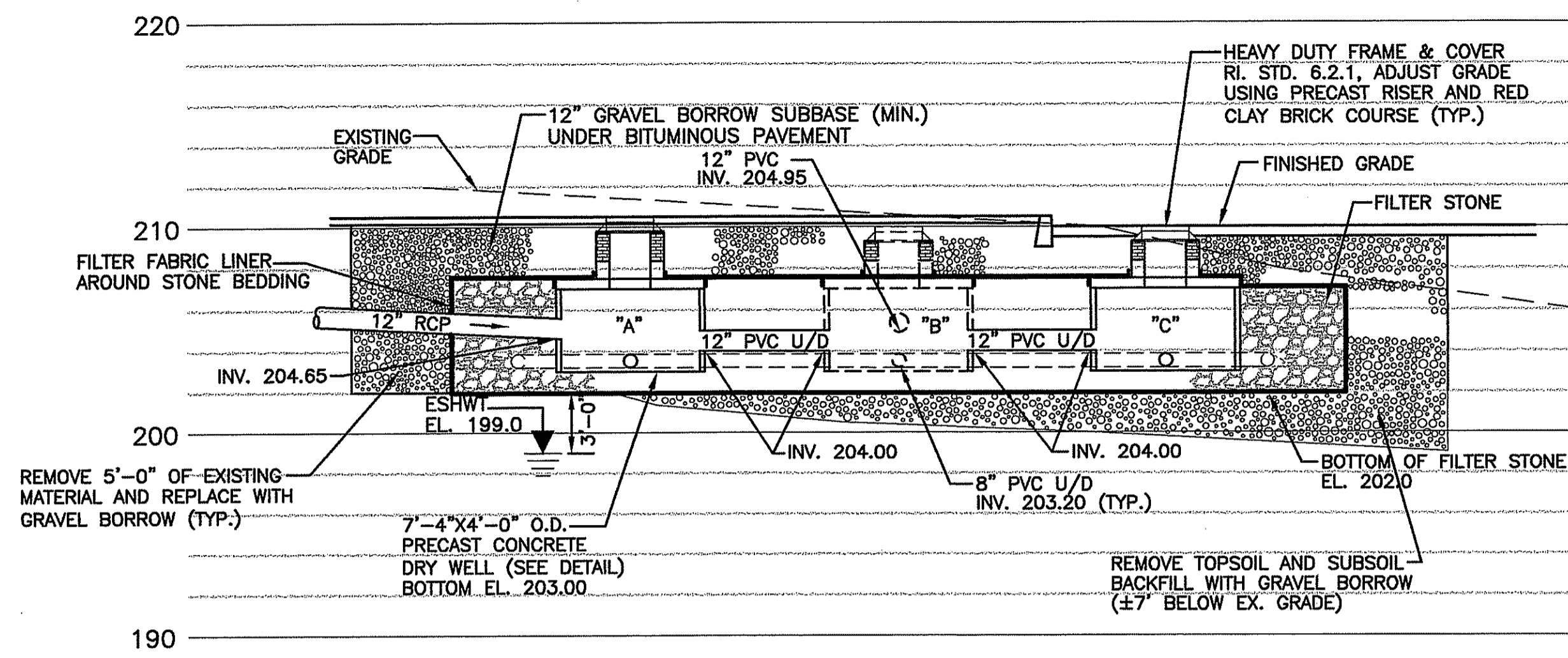
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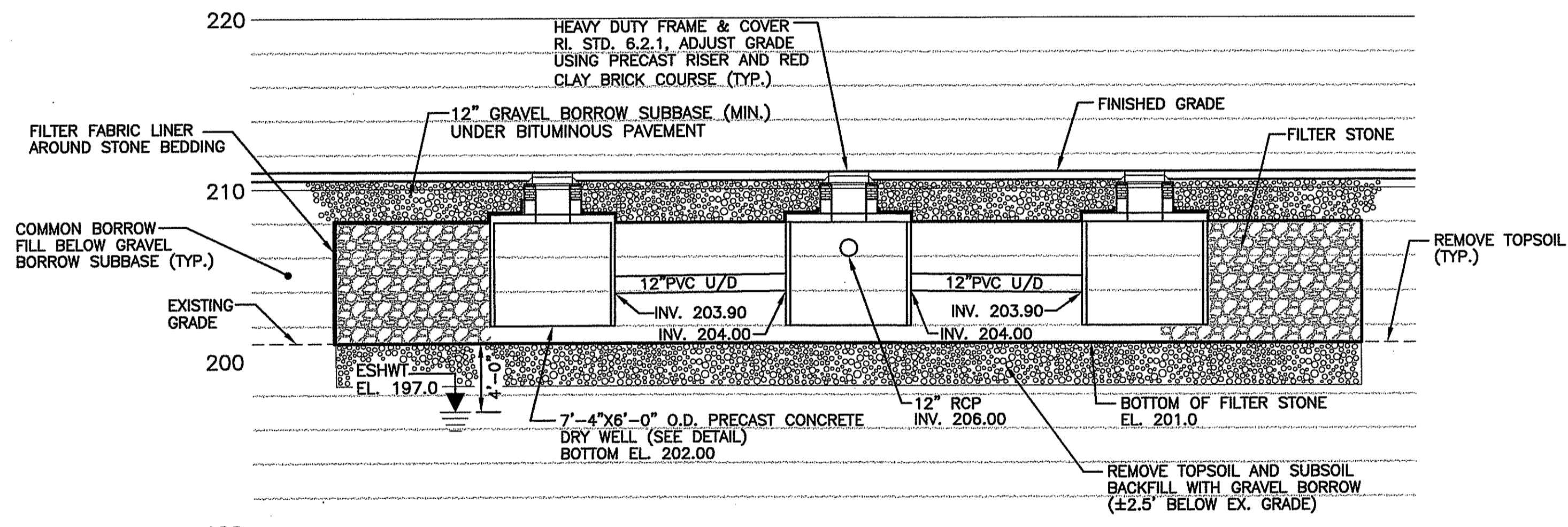
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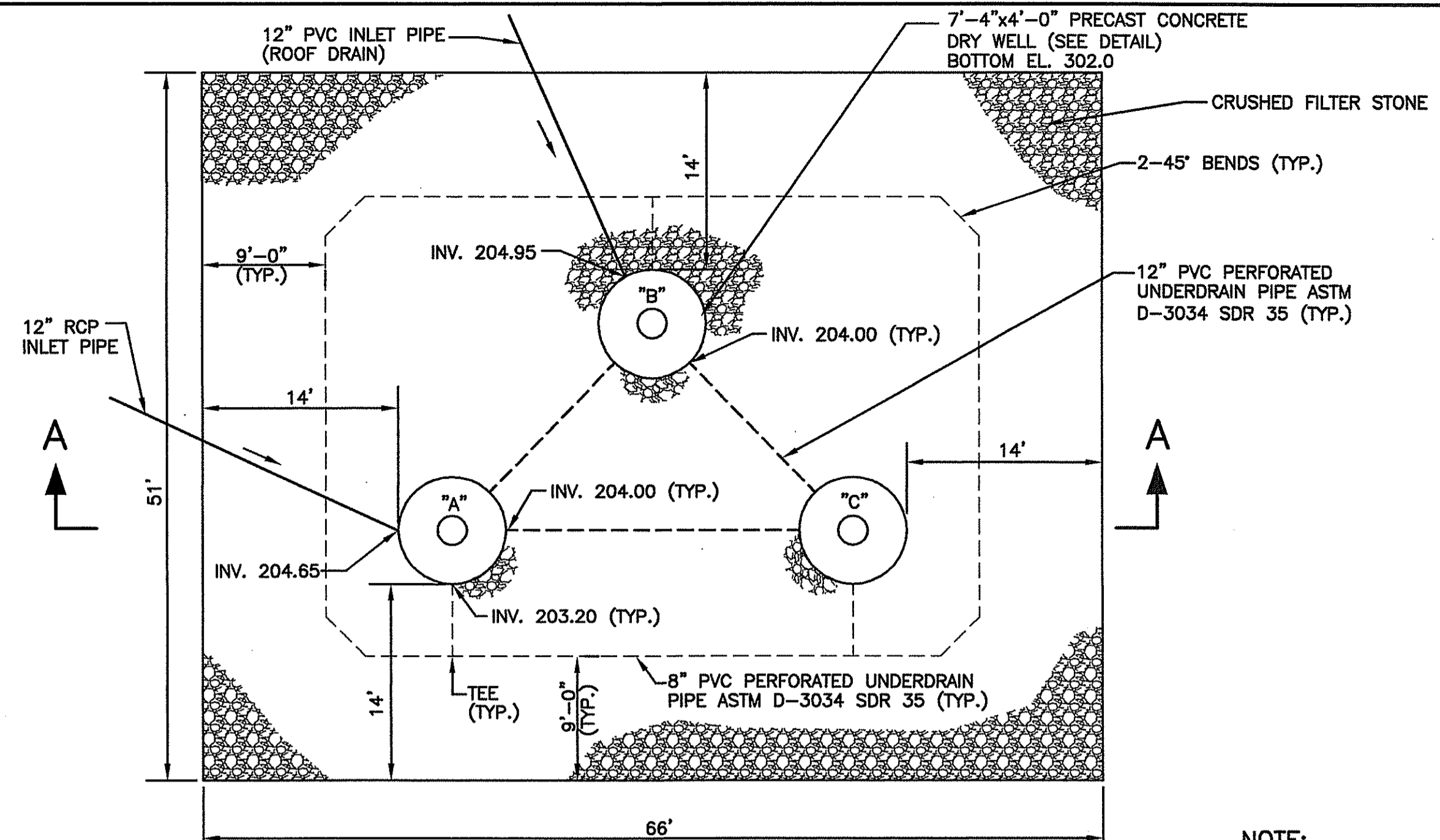
SHEET 6 OF 10



DRY WELL SYSTEM FOR AREA PR-G
N.T.S.

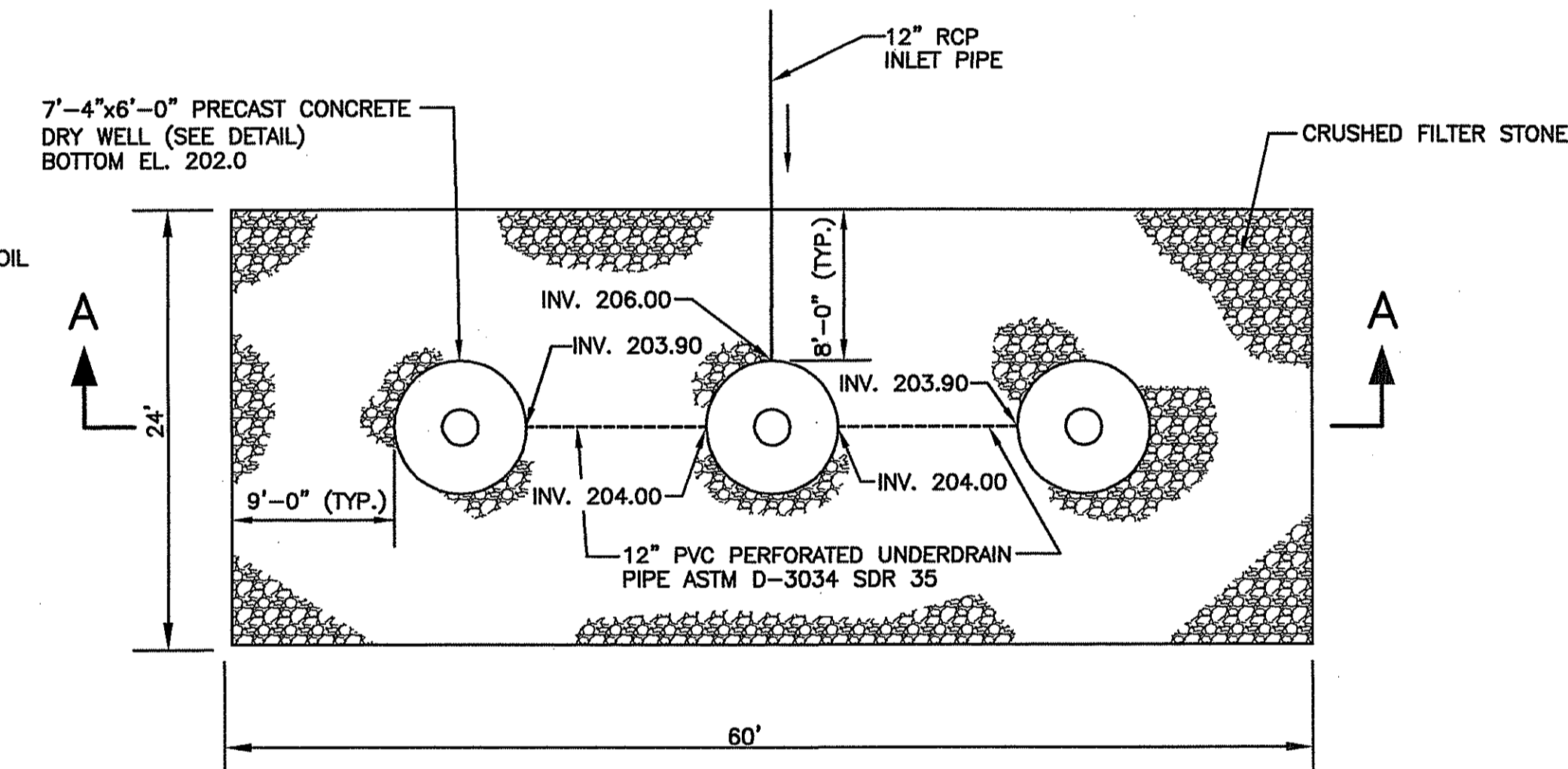


SECTION A-A
DRY WELL SYSTEM FOR AREA PR-H
N.T.S.



SUBSURFACE STORMWATER DISCHARGE SYSTEM PLAN
N.T.S.

NOTE:
ALL DIMENSIONS ARE TO THE CENTER OF PIPE



SUBSURFACE STORMWATER DISCHARGE SYSTEM PLAN
N.T.S.

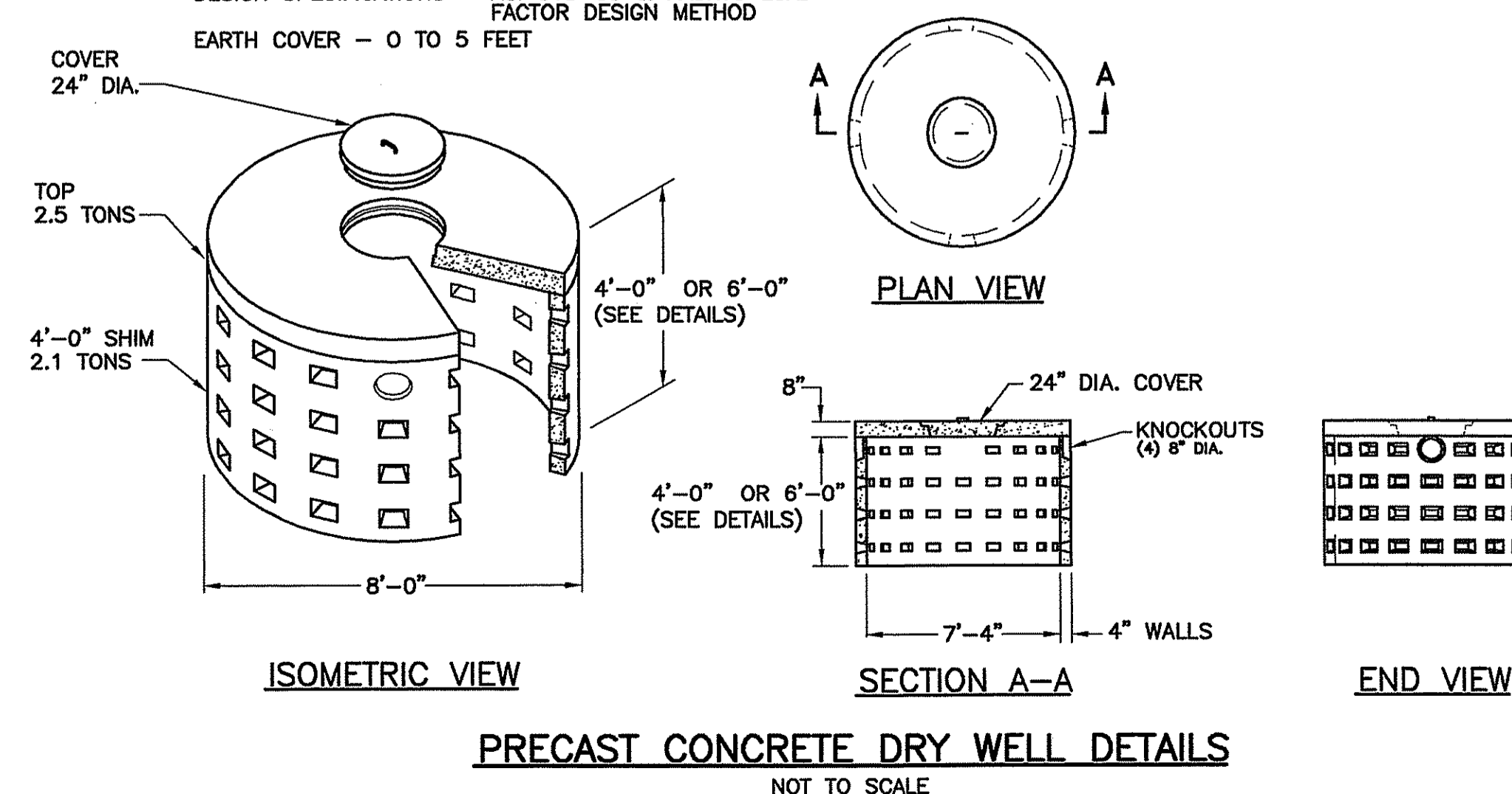
MAINTENANCE AND INSPECTION NOTES FOR SUBSURFACE INFILTRATION SYSTEMS

- ALL DRY WELLS AND CATCH BASINS DISCHARGING TO SUBSURFACE INFILTRATION SYSTEMS SHALL BE INSPECTED AND CLEANED ON AN ANNUAL BASIS. THIS SHALL INCLUDE THE REMOVAL OF ALL ACCUMULATED SEDIMENTS, MAINTENANCE OF OIL-WATER SEPARATORS, AND OTHER WORK AS NECESSARY TO ENSURE THE PROPER FUNCTIONING OF THE INFILTRATION SYSTEM. MAINTENANCE OF SUBSURFACE INFILTRATION SYSTEMS SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY.
- THE OWNER OF THE PROPERTY SHALL BE RESPONSIBLE FOR ALL REPAIRS, REPLACEMENTS, AND OTHER WORK NECESSARY TO MAINTAIN THE PROPER FUNCTIONING OF SUBSURFACE INFILTRATION SYSTEMS. SHOULD THE SYSTEM BECOME CLOG IN THE LONG-TERM AND FAIL TO OPERATE THE OWNER SHALL BE REQUIRED TO EXCAVATE AND REPLACE THE SYSTEM.
- AN INFILTRATION SYSTEMS MAINTENANCE REPORT WHICH DETAILS ANY OPERATIONAL PROBLEMS AND SPILL/DUMPING INCIDENTS SHALL BE SUBMITTED TO THE RIDEM UNDERGROUND INJECTION CONTROL (UIC) PROGRAM ON AN ANNUAL BASIS. THE MAINTENANCE REPORT SHALL BE DUE BY THE LAST DAY OF APRIL FOR EVERY YEAR THE DISPOSAL SYSTEM IS UTILIZED.
- ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE SUBSURFACE INFILTRATION SYSTEMS REQUIRES IMMEDIATE NOTIFICATION OF THE UIC PROGRAM.
- ANY INCIDENT OF GROUNDWATER CONTAMINATION RESULTING FROM THE IMPROPER DISCHARGE OF CONTAMINANTS TO THE INFILTRATION SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE RIDEM WILL REQUIRE THE PROPERTY OWNER TO REMEDIATE ANY SUCH INCIDENTS THAT MAY ADVERSELY IMPACT THE QUALITY OF GROUNDWATER.
- UPON TRANSFER OF THE PROPERTY, THE FUTURE OWNER SHALL BE INFORMED AS TO THE LEGAL RESPONSIBILITY OF OPERATING THE INFILTRATION SYSTEM, AS INDICATED.

INFILTRATION NOTES:

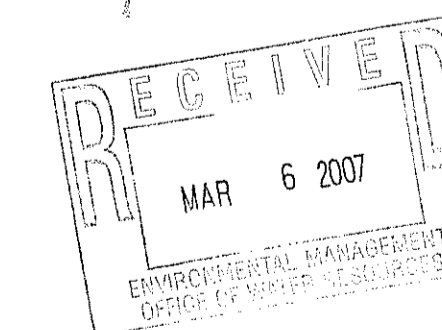
- FILTER STONE SHALL MEET THE REQUIREMENTS OF SECTION M.01.07 OF THE R.I. STANDARD SPECIFICATIONS.
- FILTER FABRIC SHALL MEET THE REQUIREMENTS OF SECTION M.18.20 OF THE R.I. STANDARD SPECIFICATIONS.
- GRAVEL BORROW SHALL MEET THE REQUIREMENTS OF SECTION M.01.02 OF THE R.I. STANDARD SPECIFICATIONS.
- THE SOIL BELOW THE INFILTRATION SYSTEM IN THE LOCATION FOR THE PROPOSED INFILTRATION SYSTEM SHOULD NOT BE COMPACTED BY CONSTRUCTION RELATED ACTIVITIES. THIS WILL NECESSITATE ROPING OFF THE AREAS OF PROPOSED SYSTEMS TO PREVENT MACHINERY FROM COMPACTING THE SOILS.

DESIGN NOTES:
CONCRETE MINIMUM STRENGTH - 5000 PSI
STEEL REINFORCEMENT - ASTM A615, GRADE 60
COVER TO STEEL - 1"
DESIGN LOADING - AASHTO HS25
CONSTRUCTION JOINT - SEALED WITH 1" BUTYL RUBBER
DESIGN SPECIFICATIONS - ACI 318-95 & AASHTO LOAD FACTOR DESIGN METHOD
EARTH COVER - 0 TO 5 FEET



PRECAST CONCRETE DRY WELL DETAILS
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED **APR 16 2007** FILE # 07-0095
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



PROJECT
1600 SOUTH COUNTY
EAST GREENWICH
RHODE ISLAND
ASSESSORS PLAT 10C LOT 30

CLIENT
MORRIS GROUP LLC.

GORDON R. ARCHIBALD, INC.
Professional Engineers
200 MAIN ST., PAWTUCKET, R.I.

NO.	DATE	REVISIONS
1	3/7/07	REMOVE TOPSOIL & SUBSOIL UNDER DRYWELLS AND BACKFILL WITH GRAVEL BORROW

DRAWING TITLE
DETAIL 4

PROJECT NO.: 1078

DATE: MARCH 2007

SCALE: 1" = 40'

DRAWN BY: LBD

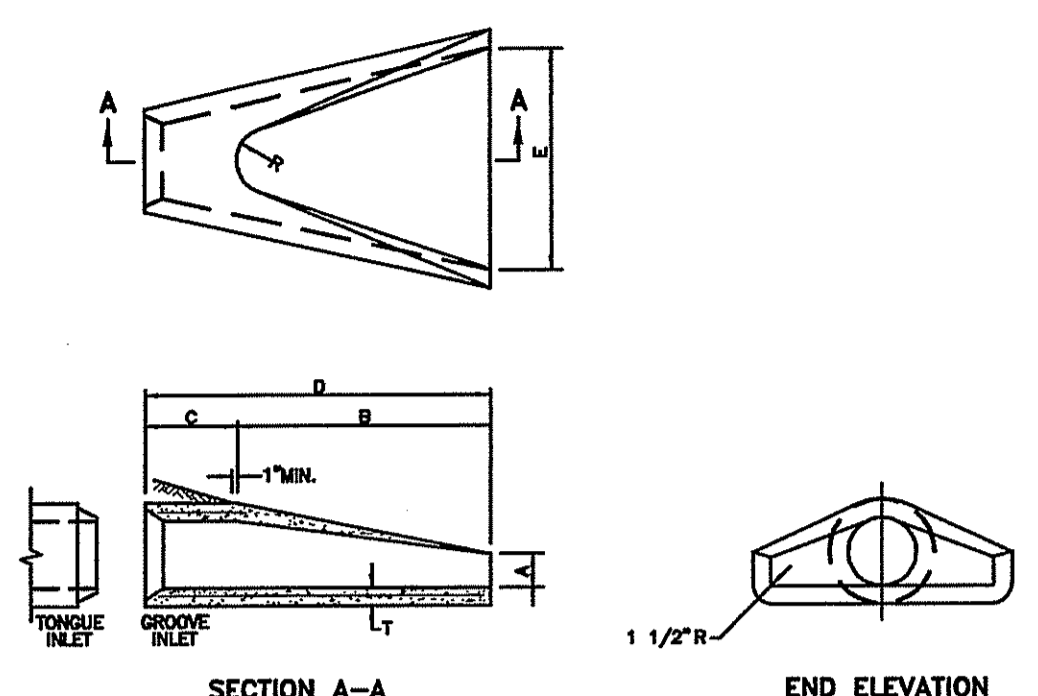
CHECKED BY: TAR

DRAWING NUMBER
7

SHEET 7 OF 10

APPROVED BY THE TOWN OF EAST GREENWICH
PLATTING AND SUBDIVISION BOARD

TITLE _____ DATE _____



DIMENSIONS								REINFORCEMENT	
DIA.	A	B	C	D	E	R	T	MIN. AREA OF EACH WAY (SQ. IN./FT.)	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED
1'-0"	4"	2'-0"	4'-0"	7/8"	2'-0"	9"	2"	0.040	0.054
1'-3"	6"	2'-3"	3'-10"	6'-1"	2'-0"	11"	2 1/4"	0.054	0.060
1'-6"	8"	2'-6"	3'-10"	6'-1"	3'-0"	12"	2 1/2"	0.072	0.072
2'-0"	1'-0"	3'-7 1/2"	2'-0"	6'-1 1/2"	4'-0"	1'-2"	3"	0.054	0.054
2'-0"	1'-0"	4'-0"	1'-3 3/4"	6'-1 3/4"	5'-0"	1'-3"	3 1/2"	0.054	0.054
3'-0"	1'-3"	5'-3"	2'-10 3/4"	6'-1 3/4"	6'-0"	1'-8"	4"	0.098	0.108
3'-0"	1'-6"	5'-3"	2'-11"	6'-2"	6'-0"	1'-10"	4 1/2"	0.120	0.120
4'-0"	2'-0"	6'-0"	2'-2"	6'-2"	7'-0"	1'-10"	5"	0.132	0.132
4'-0"	2'-3"	6'-0"	2'-11"	6'-2"	7'-0"	2'-0"	5 1/2"	0.144	0.144

NOTE: SHALL BE IN ACCORDANCE WITH SECTION 701 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION			
PRECAST CONCRETE FLARED END SECTION			
NO.	BY	DATE	REVISIONS

JUNE 15, 1998 R.I. STANDARD 2.3.0

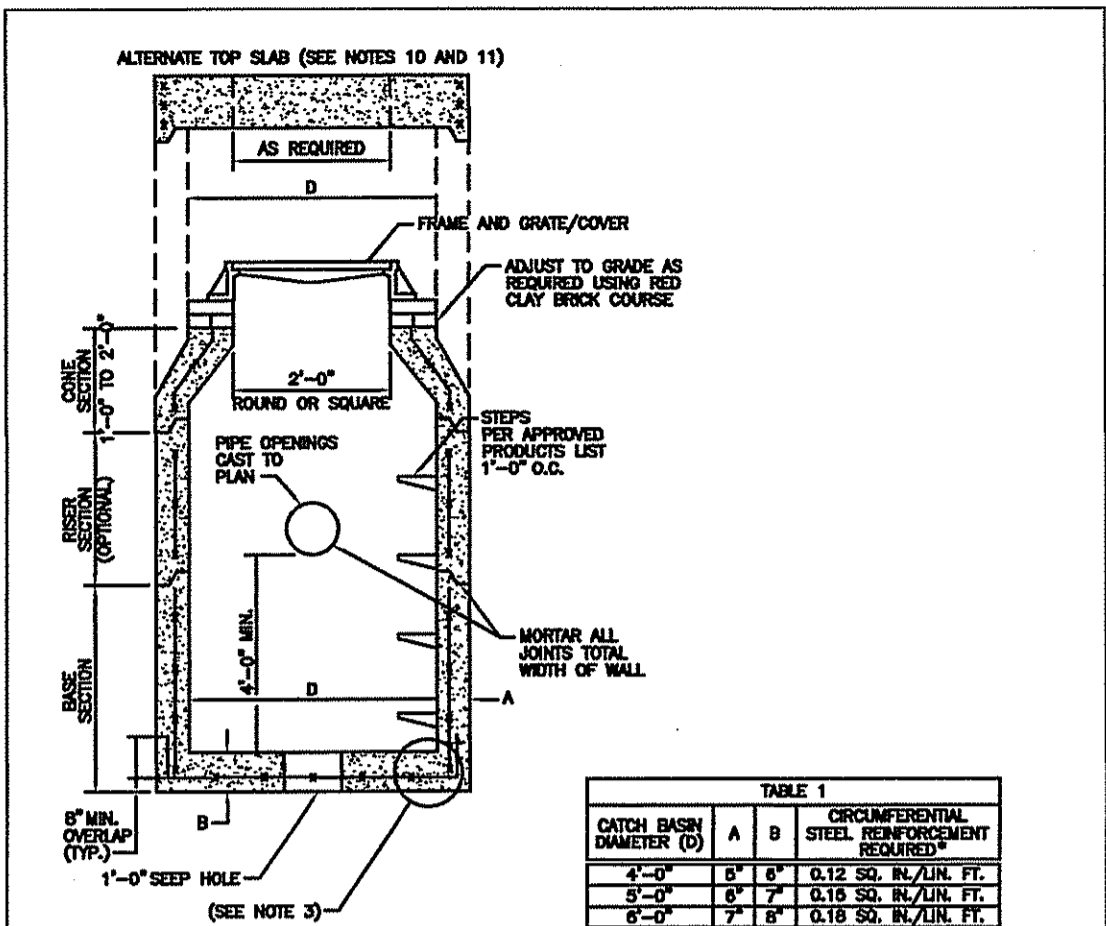


TABLE 1		
CATCH BASIN DIAMETER (D)	A	D
3'-0"	6"	0.12 SQ. IN./LIN. FT.
4'-0"	8"	0.16 SQ. IN./LIN. FT.
6'-0"	1'-0"	0.18 SQ. IN./LIN. FT.

FOR LONGITUDINAL (VERTICAL SPANNING) REINFORCEMENT REFER TO ASTM C478, ITEM R1.2

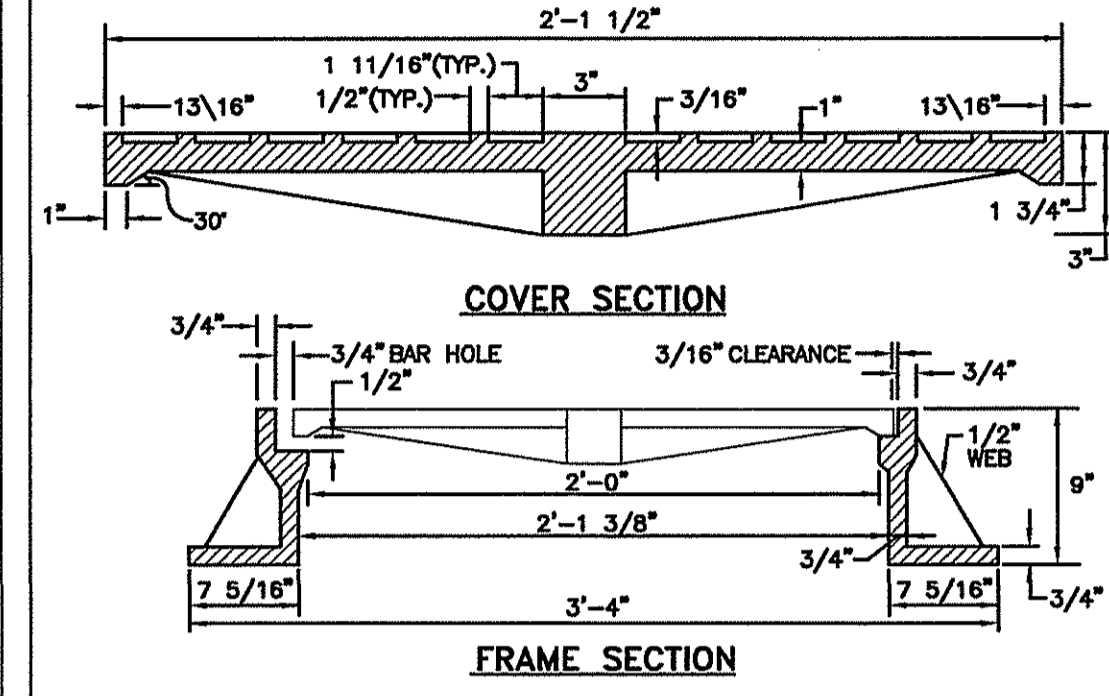
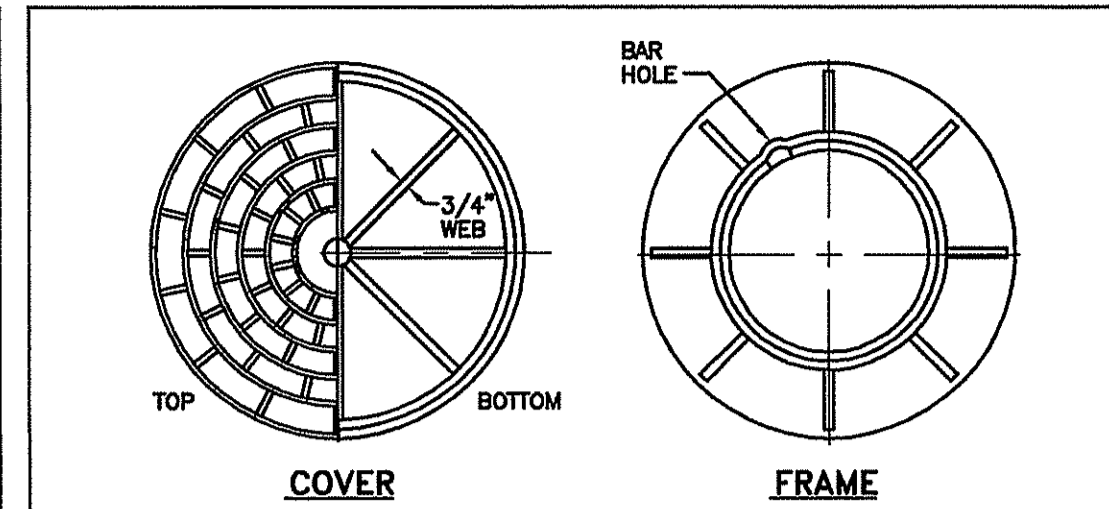
NOTE: 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.

- SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
- STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
- STEPS SHALL CONFORM TO STD. 6.2.2 AND SHALL BE INSTALLED AT THE CASTING PLANT.
- ONE FOUR MORTARING BASE SECTION.
- ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
- CORREL MARK OF RED CLAY BRICK WILL BE PERMITTED FOR THE VERTICAL SECTION OF THE 4'-0" CATCH BASIN ONLY.
- FOR CATCH BASIN TYPES "D" AND "E" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
- THE CORREL MARK OF THE OPENING MUST BE WITHIN 2" OF THE STEPS.
- ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.2.2).
- ALTERNATE TOP SLAB IS ONLY FOR USE WHEN RADIUS SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
- REFER TO STD. 6.2.0 FOR MAXIMUM PIPE SIZES.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND DEPARTMENT OF TRANSPORTATION			
PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN (WITH 4' SUMP)			
NO.	BY	DATE	REVISIONS

JUNE 15, 1998 R.I. STANDARD 4.4.0



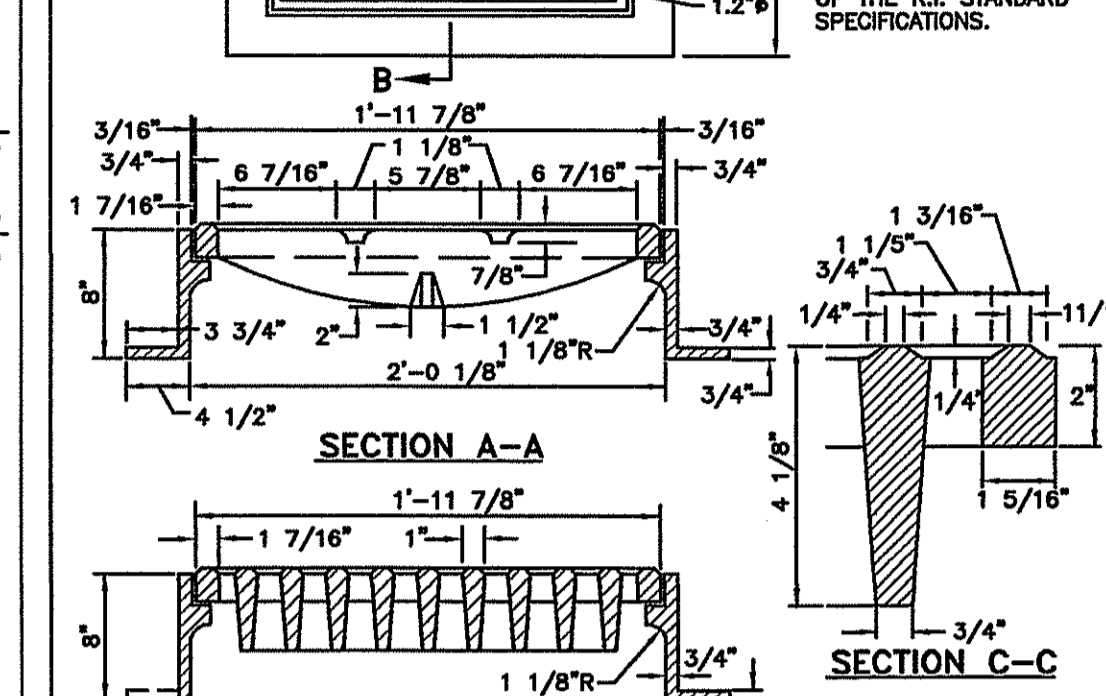
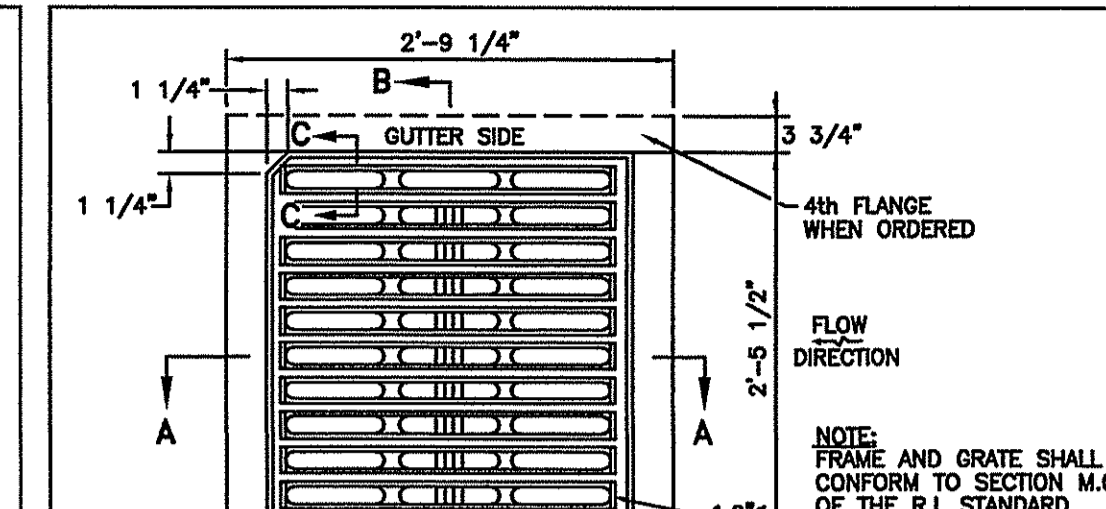
NOTE: 1. FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.

2. FRAME AND COVER SEATS MUST HAVE MACHINE FINISH.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND DEPARTMENT OF TRANSPORTATION			
HEAVY-DUTY ROUND FRAME AND COVER			
NO.	BY	DATE	REVISIONS

JUNE 15, 1998 R.I. STANDARD 6.2.1



NOTE: 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

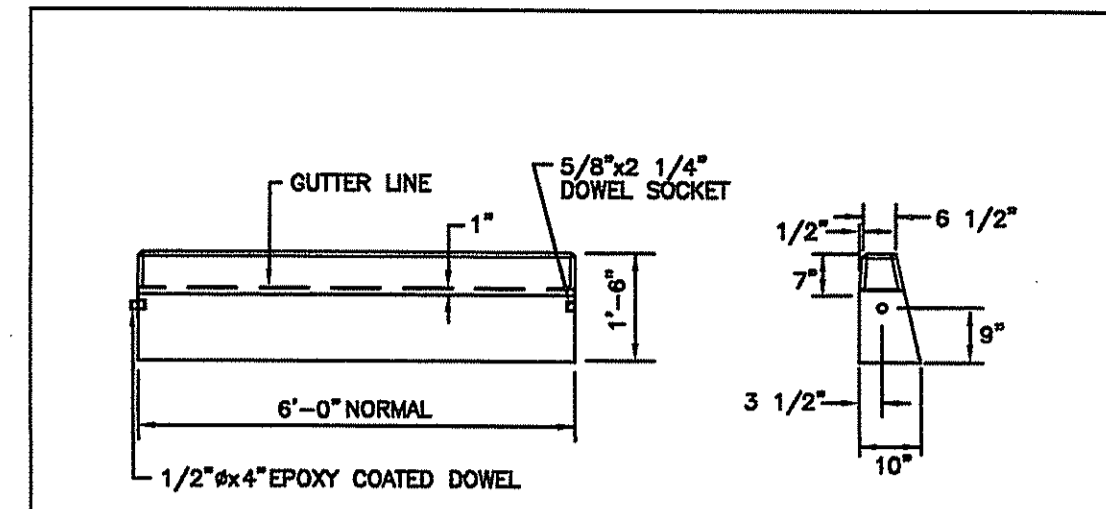
2. ALL EXPOSED EDGES TO HAVE A 3/4\"/>

3. ALL SURFACES TO HAVE A SPONGE FLOAT FINISH.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND DEPARTMENT OF TRANSPORTATION			
SQUARE FRAME AND GRATE (BICYCLE SAFE)			
NO.	BY	DATE	REVISIONS

JUNE 15, 1998 R.I. STANDARD 6.3.2



NOTE: 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0\"/>

3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.

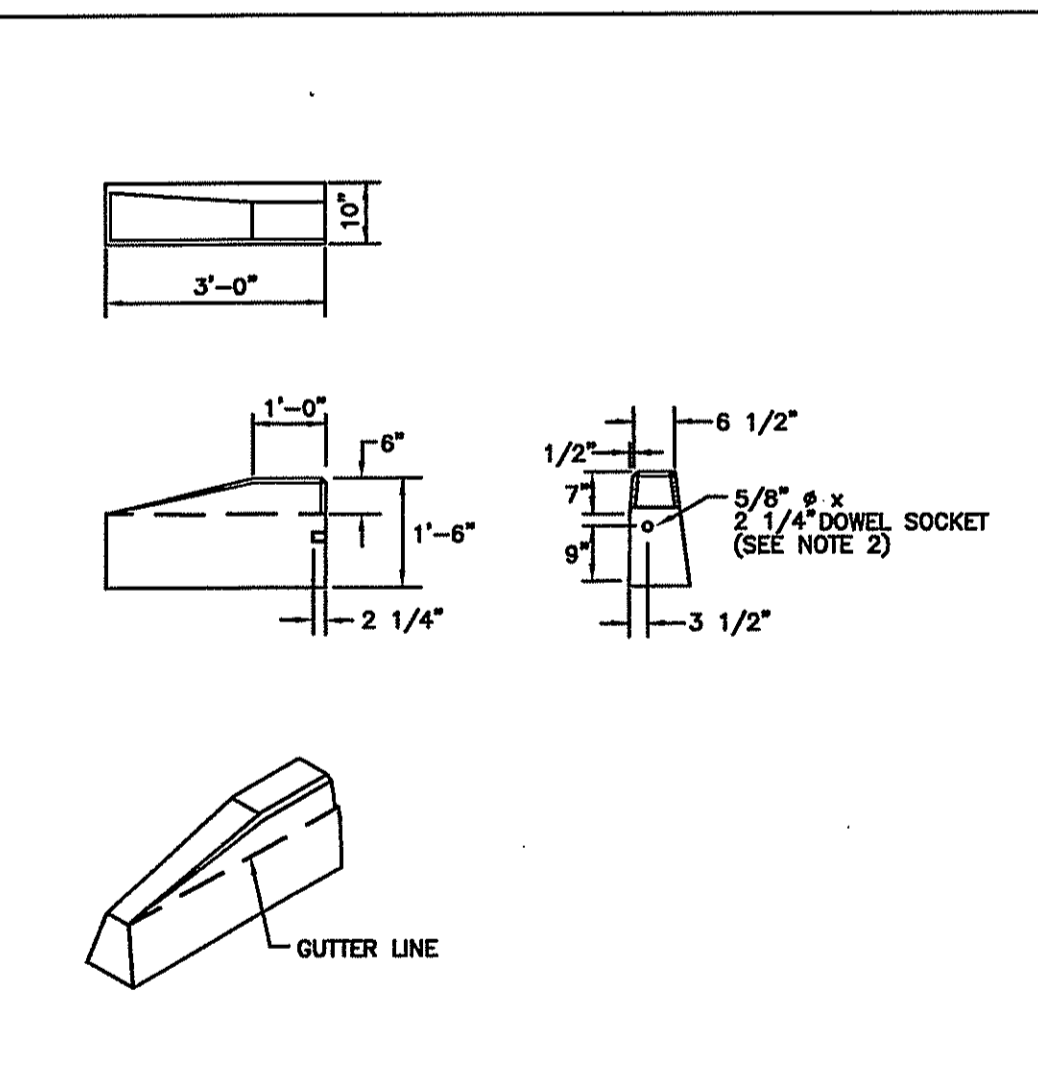
4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADI OF 160'-0\"/>

5. EXPOSED EDGES TO HAVE A 3/4\"/>

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND DEPARTMENT OF TRANSPORTATION			
PRECAST CONCRETE CURB			
NO.	BY	DATE	REVISIONS

JUNE 15, 1998 R.I. STANDARD 7.1.0



NOTE: 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

2. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2\"/>

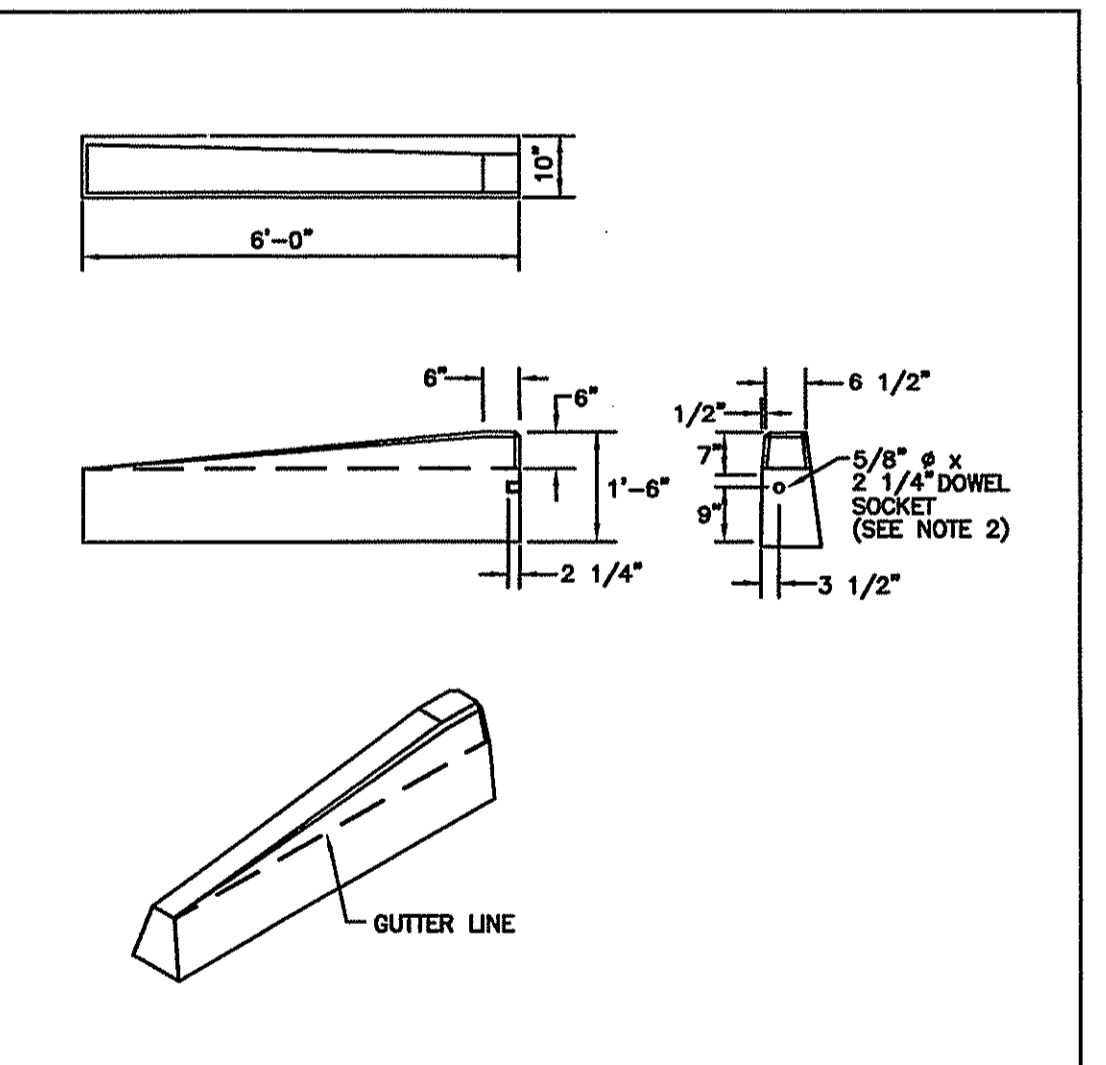
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.

4. EXPOSED EDGES TO HAVE A 3/4\"/>

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND DEPARTMENT OF TRANSPORTATION			
3'-0" PRECAST CONCRETE TRANSITION CURB			
NO.	BY	DATE	REVISIONS

JUNE 15, 1998 R.I. STANDARD 7.1.1



NOTE: 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

2. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2\"/>

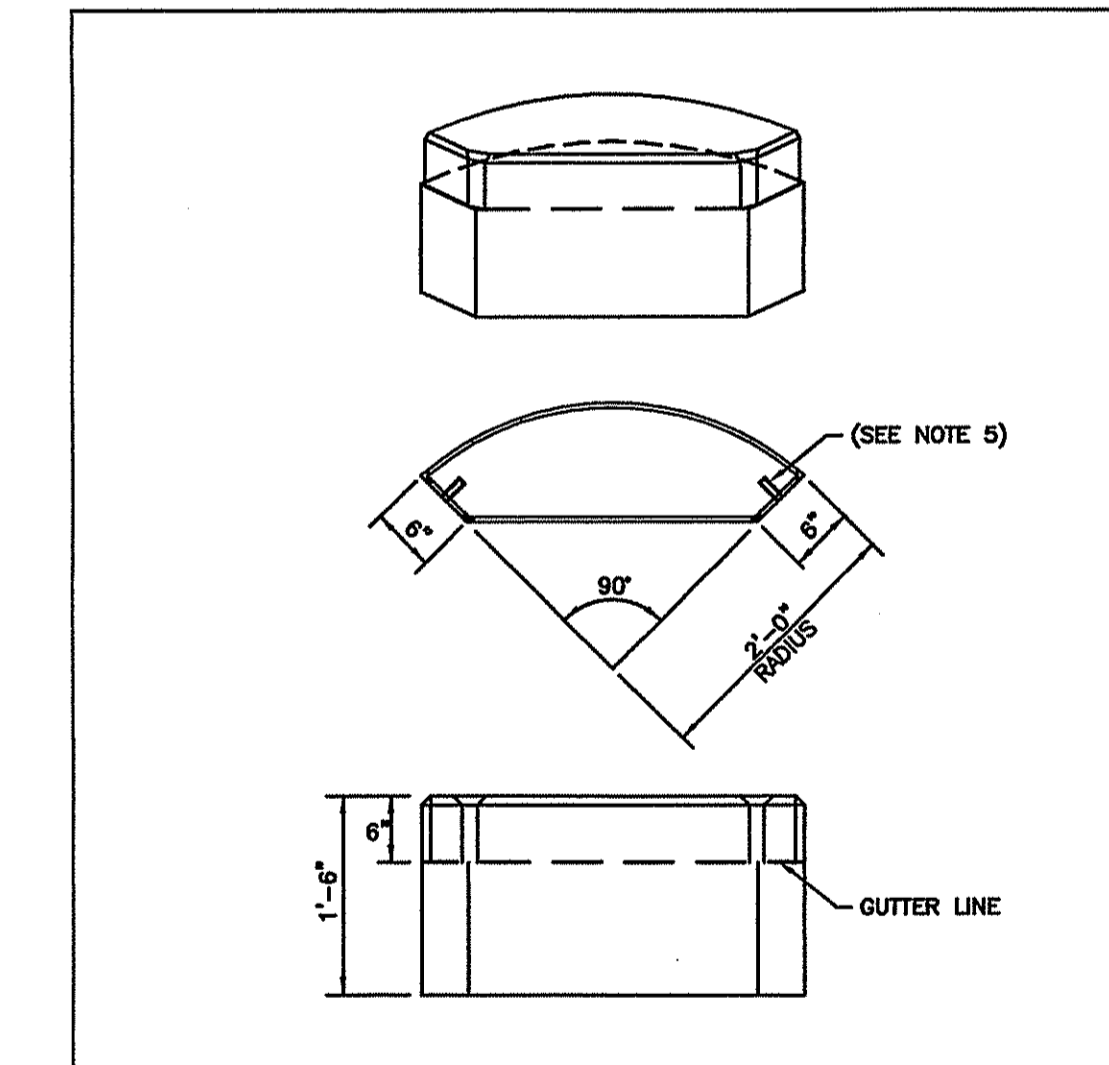
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.

4. EXPOSED EDGES TO HAVE A 3/4\"/>

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND DEPARTMENT OF TRANSPORTATION			
6'-0" PRECAST CONCRETE TRANSITION CURB			
NO.	BY	DATE	REVISIONS

JUNE 15, 1998 R.I. STANDARD 7.1.2



NOTE: 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

2. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.

3. NO REINFORCEMENT REQUIRED.

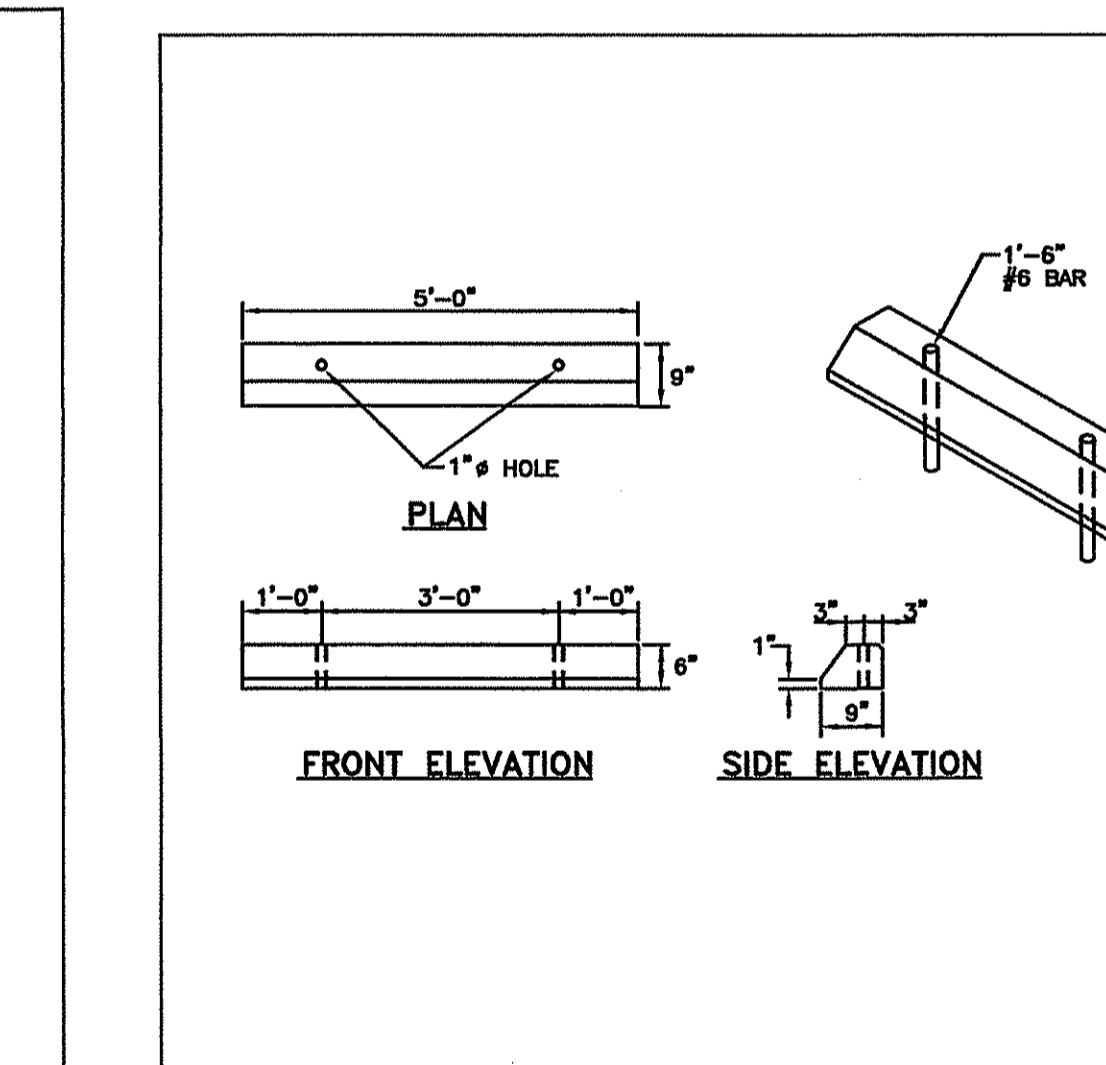
4. EXPOSED EDGES TO HAVE A 3/4\"/>

5. SEE STD. 7.1.0 FOR DOWEL SOCKET LOCATION.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND DEPARTMENT OF TRANSPORTATION			
PRECAST CONCRETE 2'-0" RADIUS CORNER			
NO.	BY	DATE	REVISIONS

JUNE 15, 1998 R.I. STANDARD 7.1.4



NOTE: 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

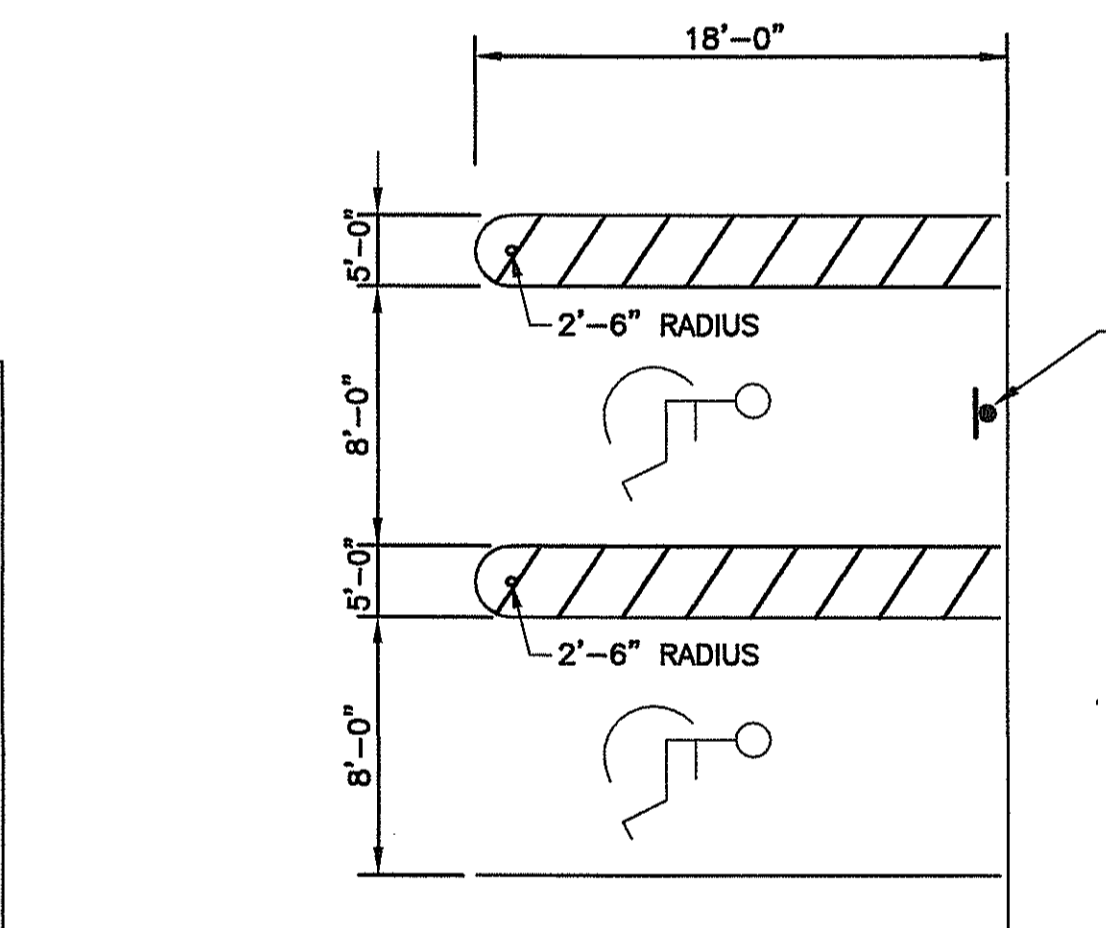
2. ALL EXPOSED EDGES TO HAVE A 3/4\"/>

3. ALL SURFACES TO HAVE A SPONGE FLOAT FINISH.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND DEPARTMENT OF TRANSPORTATION			
PRECAST CONCRETE CAR STOPS			
NO.	BY	DATE	REVISIONS

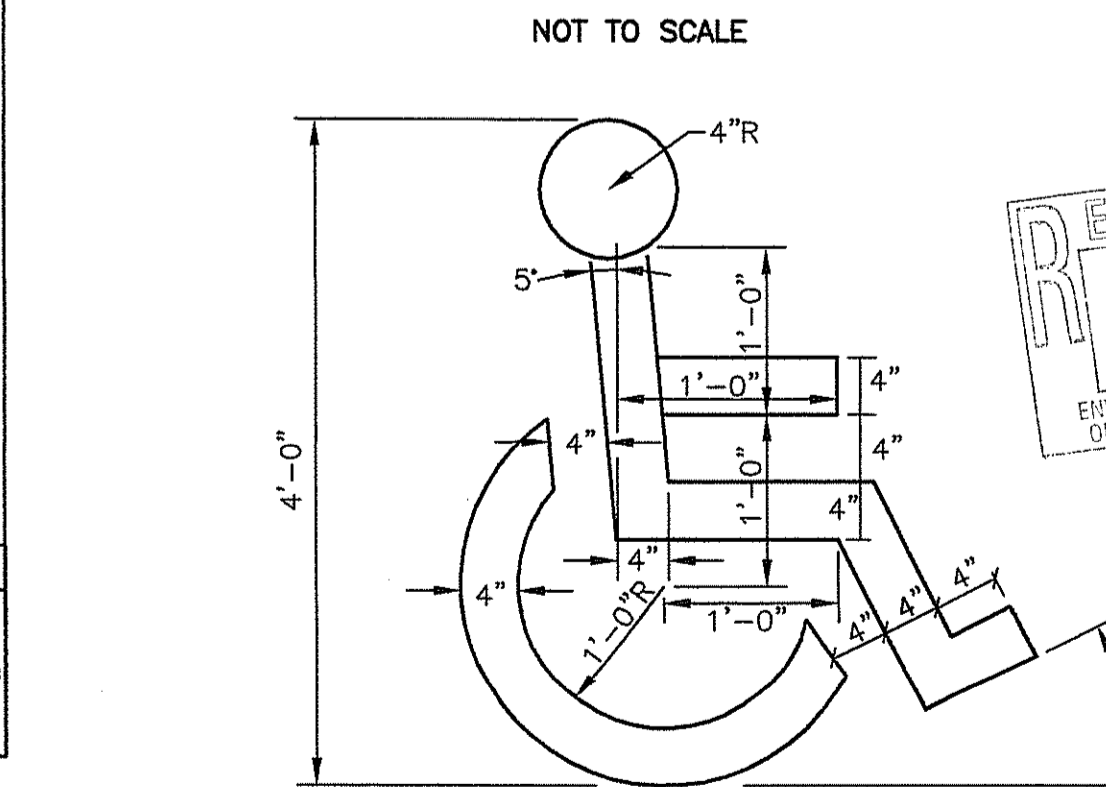
JUNE 15, 1998 R.I. STANDARD 7.2.4



NOTE: ALL STRIPING SHALL BE YELLOW

HANDICAP PARKING STALL

NOT TO SCALE



PAINTED HANDICAP SYMBOL

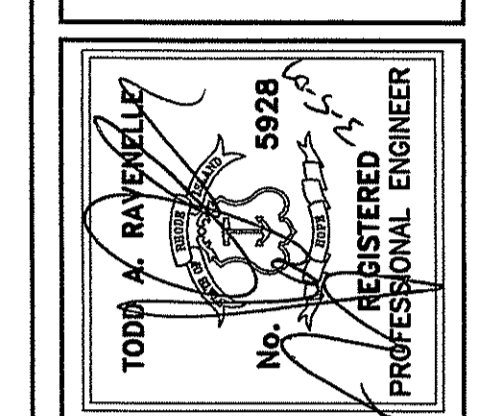
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 16 2007 FILE # 07-0095
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

APPROVED BY THE TOWN OF EAST GREENWICH
PLATTING AND SUBDIVISION BOARD

TITLE DATE

PROJECT
1600 SOUTH COUNTY
EAST GREENWICH
RHODE ISLAND
ASSESSORS PLAT 10C LOT 30



MORRIS GROUP LLC. CLIENT
GORDON R. ARCHIBALD, INC. Professional Engineers
200 MAIN ST., PAWTUCKET, R.I.

DRAWING TITLE	
DETAIL 5	
NO.	DATE

PROJECT NO.: 1078

DATE: MARCH 2007

SCALE: 1" = 40'

DRAWN BY: LBD

CHECKED BY: TAR

DRAWING NUMBER

8

SHEET 8 OF 10

APPROVED BY THE TOWN OF EAST GREENWICH
 PLATTING AND SUBDIVISION BOARD

TITLE _____ DATE _____

PROJECT
VESPIA'S LANDING
 EAST GREENWICH
 RHODE ISLAND
 ASSESSORS PLAT 10C LOT 30

TODD A. RAYBELLE
 No. 5928
 REGISTERED PROFESSIONAL ENGINEER

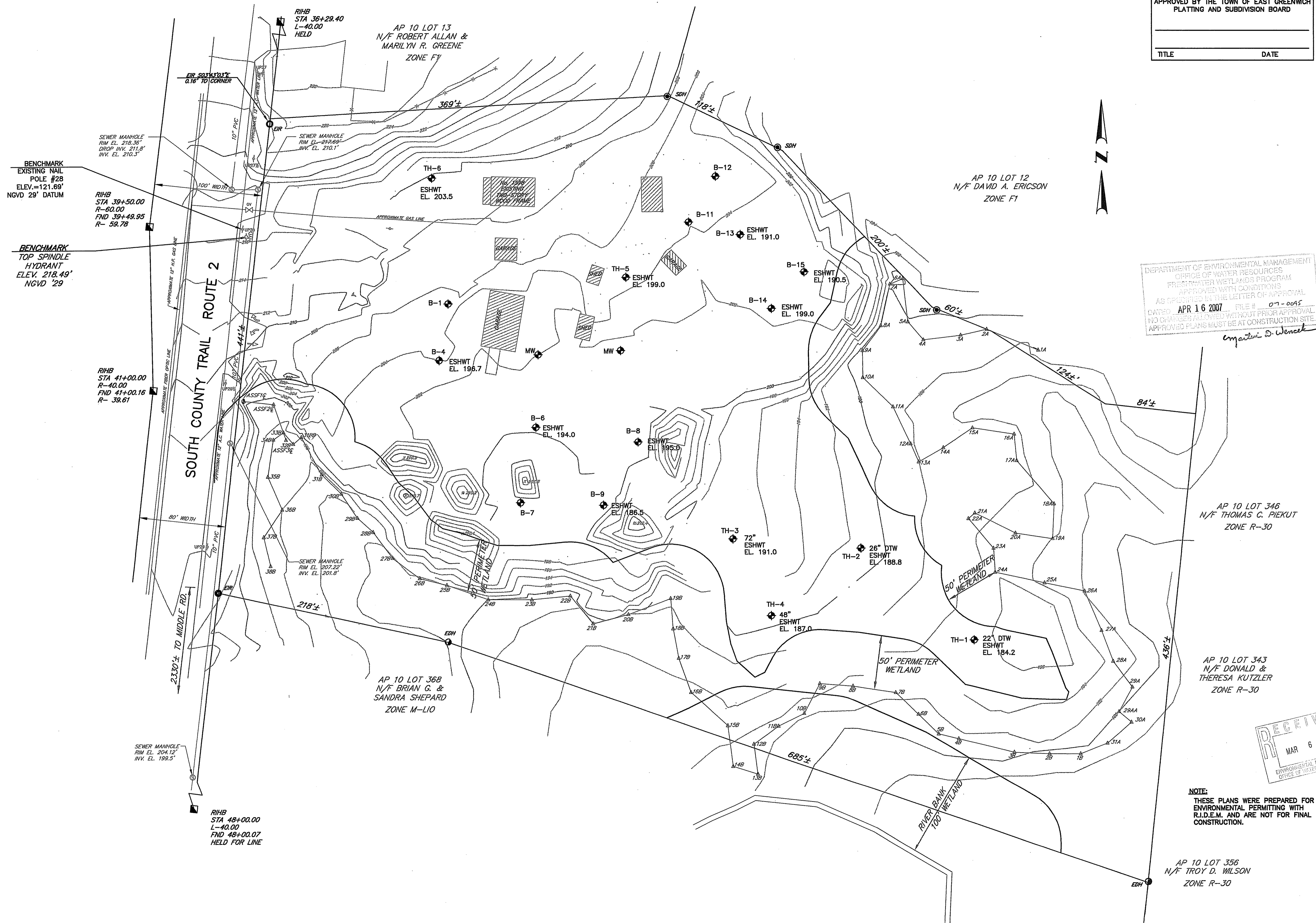
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED APR 16 2007 FILE # 07-0095
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Matthew D. Wenzel

CLIENT
MORRIS GROUP LLC.
GORDON R. ARCHIBALD, INC.
Professional Engineers
 200 MAIN ST., PAWTUCKET, R.I.

DRAWING TITLE
TEST PITS AND BORINGS

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1078
 DATE: MARCH 2007
 SCALE: 1" = 40'
 DRAWN BY: LBD
 CHECKED BY: TAR
 DRAWING NUMBER
10
 SHEET 10 OF 10



RECEIVED
 MAR 6 2007
 ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES

NOTE:
 THESE PLANS WERE PREPARED FOR
 ENVIRONMENTAL PERMITTING WITH
 R.I.D.E.M. AND ARE NOT FOR FINAL
 CONSTRUCTION.

FILE: C:\DWG\1078\1078-10.dwg
 PLOT: 1078-10.dwg
 DATE: 3/15/07
 TIME: 10:00 AM
 USER: LBD
 PLOTTER: HP DesignJet 5000