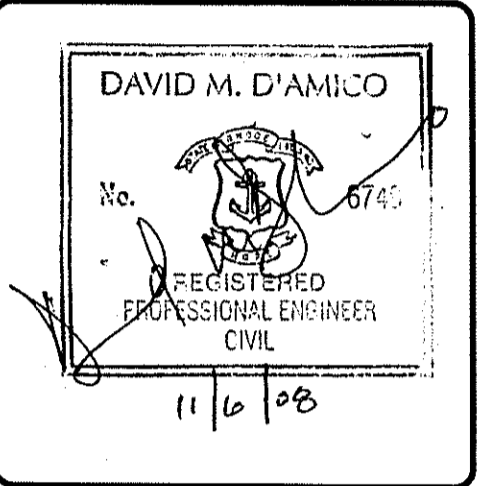
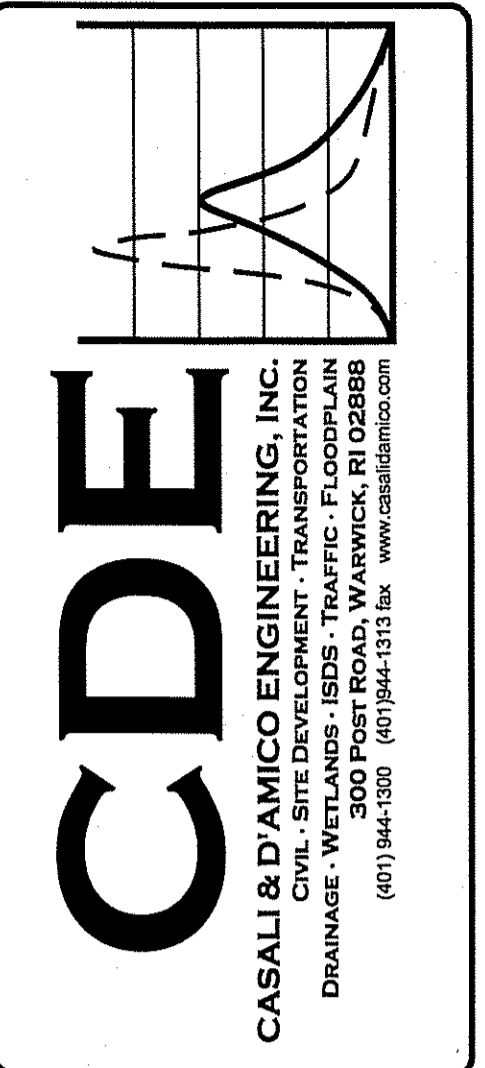


SITE PLANS FOR A PROPOSED RESIDENTIAL DEVELOPMENT

BARBERS FARM SUBDIVISION

AP 37 LOTS 194 & 437
6 BARBERS COURT
WEST WARWICK, RHODE ISLAND

ZONING DISTRICT: R-6

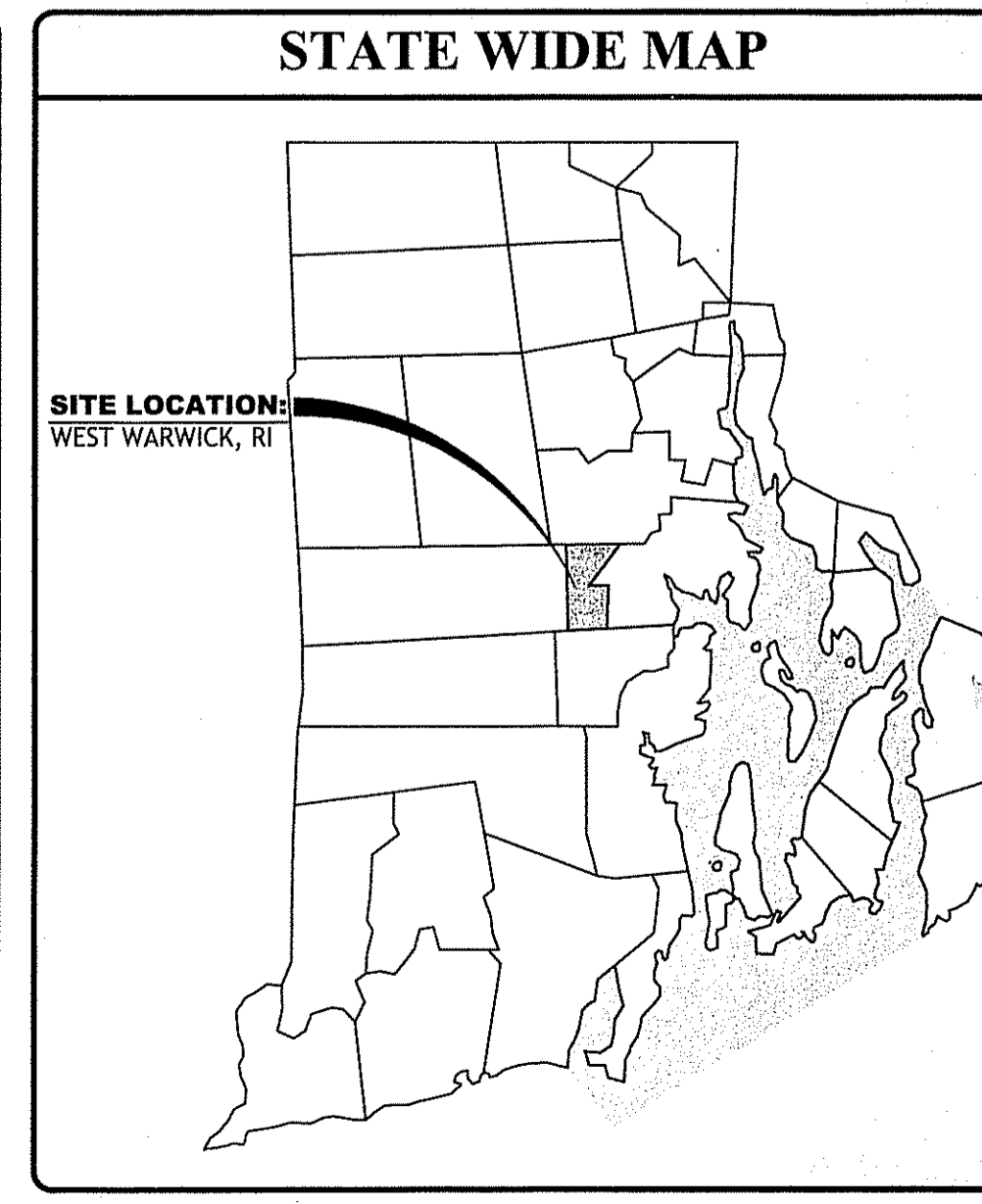
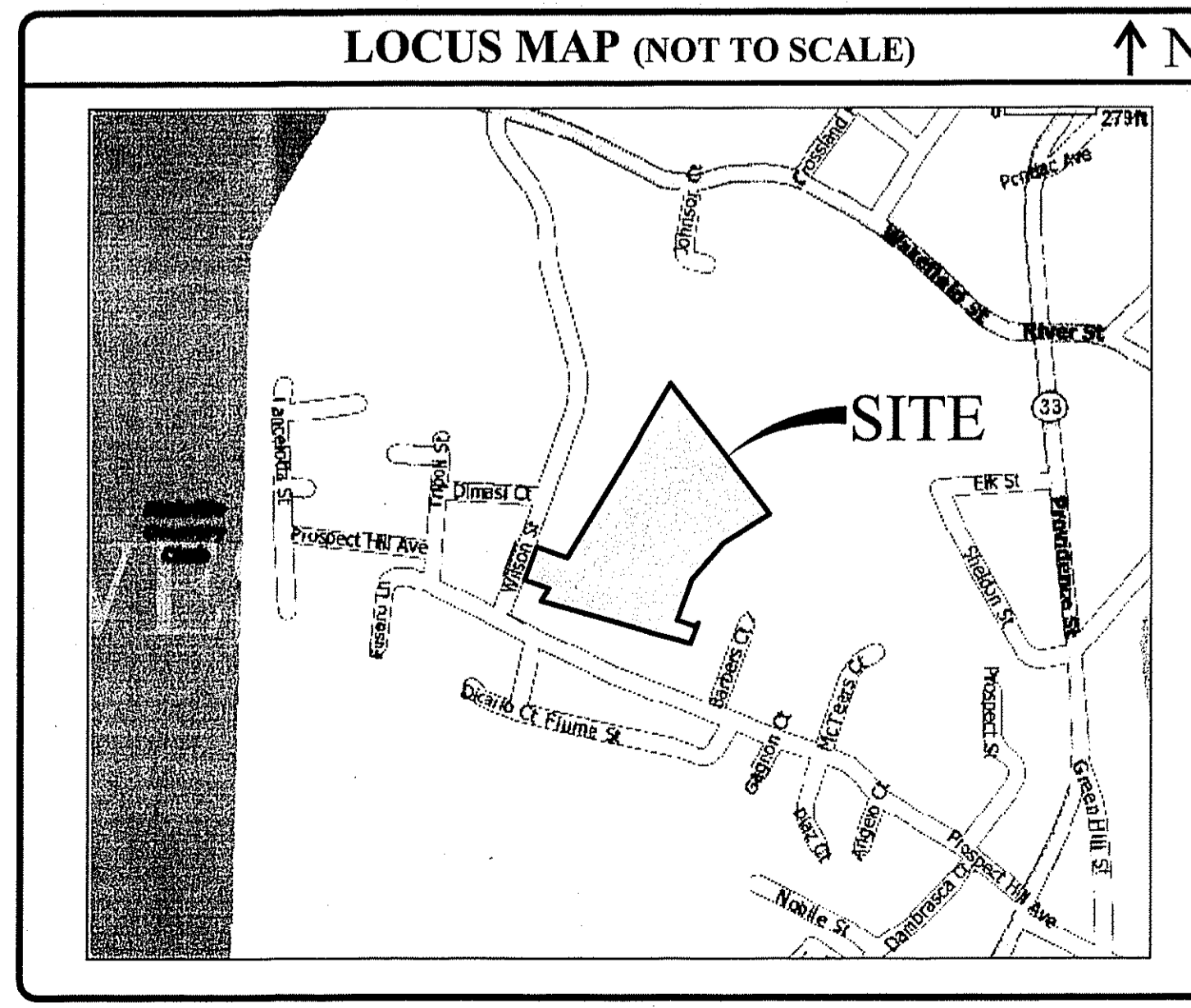


BARBERS FARM SUBDIVISION
6 BARBERS COURT
WEST WARWICK, RHODE ISLAND
AP 37 LOTS 194 & 437

MASTER PLAN APPROVAL: DECEMBER 2007

Q:\07-11 Antonio Giarrusso\07-11b 6 Barbers C\ACAD\PLANS\SET\GIARRUSSO (plan set).dwg Nov. 05, 2008 9:59am

PROJECT TEAM	
OWNER:	ANTONIO GIARRUSSO 5 LENIHAN LANE EAST GREENWICH, RI 02818
CIVIL:	CASALI & D'AMICO ENGINEERING, INC. 300 POST ROAD WARWICK, RI 02888 PHONE: 401-944-1300 FAX: 401-944-1313
SURVEYOR:	DUPONT ENGINEERING, INC. 1112 MAIN STREET COVENTRY, RI 02816 PHONE: 401-828-8777



INDEX OF DRAWINGS	
SHEET NO.	PLAN
1.	COVER SHEET
2.	200' RADIUS MAP
3.	GENERAL NOTES AND LEGEND
4.	EXISTING CONDITIONS
5.	SITE PLAN
6.	GRADING AND DRAINAGE PLAN
7.	UTILITY PLAN
8.	PROFILE PLAN
9.	DETAILS I
10.	DETAILS II
11.	DETAILS III
12.	DETAILS IV
13.	DETAILS V
14.	SEWER & WATER NOTE(S)
15.	WETLAND PLANTING PLAN

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC. 22, 2008. FILE # 08-0157
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Casey

REVISIONS:	
NO.	DATE DESCRIPTION
1	11/07 TRC COMMENTS
2	05/08 RIDEM SUBMISSION
3	08/08 KCWA SUBMISSION & RIDEM COMMENTS
4	10/08 SEWER SUBMISSION
5	11/08 RIDEM COMMENTS II & SEWER COMMENTS

DESIGNED BY:	JKB/GEC
DRAWN BY:	GAH
CHECKED BY:	DMD
DATE:	OCTOBER 2007
PROJECT NO.:	07-11b

PRELIMINARY, NOT FOR CONSTRUCTION

COVER SHEET

SHEET 1 OF 15

SITE NOTES:

- PROPERTY LINE, ABUTTERS INFORMATION, RIGHT OF WAY INFORMATION AND BUILDING LOCATION ARE FROM PLAN ENTITLED "ADMINISTRATIVE SUBDIVISION PREPARED FOR ANTONIO GIARRUSSO" PREPARED BY DUPONT ENGINEERING, INC., DATED 01-20-06. CLASS III TOPOGRAPHIC SURVEY COMPLETED BY CASALI & D'AMICO ENGINEERING, INC. IN OCTOBER 2007.
- THE PROPERTY LINES DEPICTED IN THIS PLAN WERE TAKEN FROM THE RECORDED PLATS AT THE TOWN OF WEST WARWICK, HOWEVER THE PROPERTY LINE BETWEEN LOTS 194 & 437 WAS NOT APPROVED BY THE PLANNING BOARD. THIS PROPERTY LINE WILL BE RE-RECORDED WITH THIS MAJOR SUBDIVISION AFTER ALL TOWN APPROVALS.
- THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
- FRESHWATER WETLANDS DELINEATED AND LOCATED BY CASALI & D'AMICO ENGINEERING, INC., IN MAY 2007. EDGE VERIFICATION RECEIVED FROM RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT ON FEBRUARY 21, 2008 APPLICATION NO. 07-0401.
- ACCORDING TO THE SOIL SURVEY OF RHODE ISLAND, SUBSURFACE SOILS CONSIST OF SUTTON FINE SANDY LOAM AND CANTON CHARLTON ROCK OUTCROP COMPLEX. ALL ARE HYDROLOGIC GROUP B.
- ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP FOR THE TOWN OF WEST WARWICK COMMUNITY PANEL FM440007001B THE SITE LIES IN ZONE X. ZONE X AREAS ARE DEFINED AS OUTSIDE THE 100 YEAR FLOOD PLAIN. HOWEVER ALL STREAMS HAVE AN ASSOCIATED FLOOD PLAIN. FURTHER STUDIES REQUIRED TO DETERMINE FLOOD PLAIN LIMITS.
- THE EXISTING BUILDING IS CURRENTLY OCCUPIED BY A SINGLE FAMILY HOME. THIS USE IS ALLOWED IN AN R-6 ZONE.
- DEVELOPMENT OF THIS SITE IS PROPOSED TO OCCUR IN A SINGLE PHASE.

GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) OF ALL MATERIALS INDICATED ON THE PLANS.
- STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES.
- ALL DISTURBED AREAS OUTSIDE OF THE PAVED AREAS WILL RECEIVE A MINIMUM OF 6" OF LOAM AND SEED.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SURVEY LAYOUT SERVICES FOR THE WORK AND SHALL SUBMIT "AS-BUILT" DRAWINGS OF ALL WORK, WHICH SHALL BE STAMPED AND CERTIFIED BY A RHODE ISLAND REGISTERED PROFESSIONAL LAND SURVEYOR.
- ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT IS REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND INCLUDED IN THE CONTRACT BID PRICE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.
- REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ACTUAL SIZE OF THE PROPOSED DWELLINGS.
- WHERE NECESSARY TO REMOVE CURBS, CATCH BASINS OR DRAINS TO COMPLETE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE TOWN AT NO ADDITIONAL COST TO THE OWNER OR TOWN.
- ANY EXISTING PIPE OR UTILITY DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER OR TOWN.
- THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION OR REPLACE TREES, SHRUBS, FENCES, SIGNS, GUARDRAILS, DRIVEWAYS, SIDEWALKS AND ANY OTHER OBJECT AFFECTED BY THIS OPERATION.
- THE TOPS OF ALL VALVE BOXES AND CURB BOXES SHALL BE FLUSH WITH GROUND OR PAVEMENT SURFACE LEVEL AND PLUMB, UNLESS OTHERWISE DIRECTED.
- ROADWAYS SHALL BE LEFT PASSABLE AT ALL TIMES. CLOSURE OF ROADWAY IS NOT PERMITTED.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AT COMPLETION OF EACH DAYS WORK.
- WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES.
- ALL LEDGE TO BE REMOVED BY MECHANICAL MEANS.
- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WET POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.
- REFER TO PLUMBING PLANS FOR CONTINUATION OF ALL UTILITIES WITHIN 5' (FIVE) FEET OF THE BUILDING.
- ALL SITE WORK, INCLUDING BUT NOT LIMITED TO, BITUMINOUS PAVEMENT, ROADWAY CONSTRUCTION, AGGREGATE MATERIALS, DRAINAGE STRUCTURES, CURBING, SIDEWALK, LANDSCAPING, SAW CUTTING, ETC. SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION (WITH LATEST ADDENDA) AND THE RIDOT STANDARD DETAILS, 1998 EDITION (WITH LATEST ADDENDA).
- CONTRACTOR SHALL REMOVE ANY UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
- TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DIVIDES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
- SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE RIDOT SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

**PROPOSED PAVEMENT STRUCTURE:
(PAVEMENT PROPOSED STREET)**

- 1-1/2" BITUMINOUS CONCRETE SURFACE COURSE, CLASS I, TYPE 1-I
- 1-1/2" BITUMINOUS CONCRETE BASE COURSE
- 12" GRAVEL BORROW SUBBASE

ASPHALT EMULSION TACK COAT TO BE PLACED PRIOR TO SURFACE COURSE PAVING IF BASE COURSE IS OPENED TO VEHICLE USE OR IF BASE COURSE IS GREATER THAN 30 DAYS OLD.

UTILITY NOTES:

- PRIOR TO CONSTRUCTION ALL POTENTIAL UTILITY/DRAINAGE CONFLICTS MUST BE IDENTIFIED BY THE CONTRACTOR. ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. NO EXTRA PAYMENT TO THE CONTRACTOR DUE TO RELOCATIONS WILL BE AUTHORIZED.
- THE UTILITY PLAN DOES NOT DEPICT THE NECESSARY ELECTRICAL CONDUIT/WIRING TO SERVICE THE PROPOSED HOMES, WHICH WILL BE PERFORMED BY THE CONTRACTOR FOR NO ADDITIONAL COST.
- OVERHEAD ELECTRIC AND TELEPHONE SERVICES ARE TO BE APPROVED BY THE APPROPRIATE UTILITY COMPANY AND COORDINATED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL AT ALL TIMES PROVIDE A SUFFICIENT NUMBER OF WORKMEN AND GUARDS AS MAY BE NECESSARY TO PROPERLY SAFEGUARD THE PUBLIC FROM THEIR OPERATIONS.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OF PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT HIS OWN EXPENSE ANY DAMAGE TO SUCH PAVING, SIDEWALKS, UTILITIES, OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER OR TOWN.
- EXISTING UTILITY FRAMES AND COVERS FOR SANITARY SEWER, WATER, GAS, STORM DRAINAGE AND OTHER UTILITIES SHALL BE ADJUSTED TO GRADE AS REQUIRED IN NEW PAVING AND PAVEMENT OVERLAY AREAS.

WATER DESIGN NOTES

- ALL INSTALLATIONS, JOINTS, CONSTRUCTION METHODS AND MATERIALS SHALL BE ACCORDING TO THE KENT COUNTY WATER AUTHORITY REQUIREMENTS, AWWA STANDARDS AND GOVERNMENTAL REQUIREMENTS.
- WATER PIPES SHALL TYPICALLY BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM SEWER PIPES, AND AT A MINIMUM DEPTH OF COVER EQUAL TO 5'. WHERE A NEW WATER PIPE IS LESS THAN 18 INCHES CLEAR DISTANCE ABOVE A SEWER OR WHERE A WATER PIPE PASSES BENEATH A SEWER OR STORM DRAIN, SLEEVE THE SEWER OR DRAIN IN A SUITABLE CARRIER PIPE AS PER KENT COUNTY WATER AUTHORITY REGULATIONS.
- ALL SYSTEM COMPONENTS AND CONSTRUCTION METHODS; SUCH AS PIPE, THRUST BLOCKS, FITTINGS, CASTINGS, ETC. SHALL BE SUBMITTED TO KENT COUNTY WATER AUTHORITY FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION. THIS SUBMISSION SHALL INCLUDE MANUFACTURER'S LITERATURE, SHOP DRAWINGS, PROPOSED CONSTRUCTION METHODS, ETC.
- WATER LINE TRENCH TO BE AWWA TYPE 5. A METALIZED DETECTABLE IDENTIFICATION TAPE 2" IN WIDTH, BLUE IN COLOR AND PRINTED WITH "CAUTION WATERLINE BURIED BELOW" SHALL BE UTILIZED OVER ALL MAINS. TAPE SHALL BE SET AT APPROXIMATELY 1' BELOW FINISHED GRADE.
- THE DOMESTIC WATER SERVICES SHALL BE 3/4" TYPE "K" COPPER PIPE UNLESS OTHERWISE SPECIFIED.
- ALL SITE WORK, INCLUDING BUT NOT LIMITED TO, BITUMINOUS PAVEMENT, GRAVEL, STONE, DRAINAGE PIPE AND RELATED STRUCTURES, WATER, SEWER, AND DRAIN LINE INSTALLATION, PAVEMENT SAW CUTTING, ETC. SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION (WITH LATEST ADDENDA) AND THE RIDOT STANDARD DETAILS, 1998 EDITION (WITH LATEST ADDENDA).
- SPECIFIC BENDS ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL BENDS AS NECESSARY TO INSTALL THE PIPE AT THE REQUIRED DEPTH AND ALIGNMENT.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

- THE HAYBALE AND SILT FENCE LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT WITHIN OR ADJACENT TO REGULATED FRESHWATER WETLAND AREAS.
- THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.
- ALL CATCH BASINS AND CULVERTS SHALL BE PROTECTED WITH STAKED HAYBALES (R.I. STD. 9.8.0) DURING CONSTRUCTION ACTIVITIES. ALL PROPOSED STORMWATER DISCHARGE AREAS SHALL BE LINED WITH A RIPRAP SPLASH PAD AND PROTECTED WITH STAKED HAYBALE OUTLET PROTECTION (R.I. STD. 9.1.0), OR STAKED HAYBALE WITH SILT FENCE (R.I. STD. 9.3.0) STAKED HAYBALES OUTLET PROTECTION (R.I. STD. 9.1.0) OR STAKED HAYBALES WITH SILT FENCE (R.I. STD. 9.3.0) SHALL ALSO BE INSTALLED AT ALL EXISTING STORMWATER DISCHARGE LOCATIONS WHERE DISTRIBUTING PIPES, CATCH BASINS, AND MANHOLES ARE TO BE CLEANED AND FLUSHED.
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDED AREAS TO ENSURE THAT A GOOD STAND IS MAINTAINED.
- ALL HAYBALES, TEMPORARY TREATMENT (HAY, STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.
- THE HAYBALES SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY HAYBALES AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE BALES BECOMES FILLED WITH SEDIMENTS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (HAYBALES, SILT FENCE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESEEDING ALL AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.
- ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND EROSION AND SEDIMENTATION HANDBOOK", DATED 1993.

DRAINAGE SYSTEM NOTES:

- THE PROPOSED DRAINAGE LINES SHALL BE ADS N-12 (HDPE) OR AN APPROVED EQUAL AS INDICATED ON THESE PLANS.
- ALL RIM ELEVATIONS SHOWN ARE APPROXIMATE AND ARE TO BE SET FLUSH WITH FINAL GRADES.
- CULTEC INFILTRATION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND AS SHOWN ON THESE PLANS.
- ALL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH H-20 LOADING CHARACTERISTICS.
- STONE BEDDING FOR THE CULTTEC SYSTEMS SHALL BE 1 1/2" TO 2" WASHED STONE.

REQUIRED INFILTRATION SETBACKS:

- THE PROPOSED INFILTRATION SYSTEM MEETS THE 3' MINIMUM SEPARATION DISTANCE BETWEEN THE DESIGN BOTTOM OF THE STRUCTURE AND THE SEASONAL HIGH WATER TABLE.
- THE PROPOSED INFILTRATION SYSTEM MEETS THE 4' MINIMUM SEPARATION DISTANCE FROM THE SEASONAL HIGH WATER TABLE FOR SOILS WITH AN INFILTRATION RATE GREATER THAN 7.5 INCHES PER HOUR.
- THE PROPOSED INFILTRATION SYSTEM MEETS THE 5' MINIMUM SEPARATION DISTANCE BETWEEN THE DESIGN BOTTOM OF THE STRUCTURE AND BEDROCK.
- THE PROPOSED INFILTRATION SYSTEM IS NOT WITHIN 25 FEET OF ANY SEPTIC SYSTEM COMPONENT.
- THE PROPOSED INFILTRATION SYSTEM IS NOT WITHIN 400 FEET OF A PUBLIC WELL.
- THE PROPOSED INFILTRATION SYSTEM IS NOT WITHIN 100 FEET OF A PRIVATE WELL.
- THE PROPOSED INFILTRATION SYSTEM IS NOT WITHIN 200 FEET OF ANY SURFACE DRINKING WATER SUPPLIES AND THEIR RESPECTIVE TRIBUTARIES.
- THE PROPOSED INFILTRATION SYSTEM IS NOT WITHIN 150 FEET OF ANY COASTAL FEATURE.
- THE PROPOSED INFILTRATION SYSTEM IS NOT WITHIN 50 FEET OF ANY SURFACE WETLAND OR COASTAL WETLAND.
- THE PROPOSED INFILTRATION SYSTEM IS NOT WITHIN 10 FEET OF ANY BUILDING FOUNDATION AND THE PROPOSED FOUNDATION FLOOR ELEVATION IS ABOVE THE INVERT OF THE PROPOSED INFILTRATION SYSTEM.

BMP MAINTENANCE SCHEDULE:

- ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:

- A) MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF THE STORMWATER RUNOFF (DRAINAGE) AND WATER QUALITY CONTROL SYSTEMS TO INCLUDE INSPECTION, CLEANING AND REPAIRS TO THE INFILTRATION SYSTEMS, DETENTION BASINS, ALL PIPES, SWALES, INTAKE AND DISCHARGE STRUCTURES, CATCH BASIN SUMPS, AND MANHOLES.
- B) INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS.
- C) UPON COMPLETION OF PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM, INCLUDING ALL CATCH BASIN, MANHOLES, PIPES, SWALES, DETENTION AREAS AND INFILTRATION SYSTEM.

- AFTER THE COMPLETION OF THE ENTIRE PROJECT TO THE SATISFACTION OF THE ENGINEER, ALL MAINTENANCE OF THE DRAINAGE FACILITIES WITHIN THE TOWN RIGHT OF WAY INCLUDING, BUT NOT LIMITED TO, CATCH BASINS, MANHOLES, AND PIPES SHALL THEN BE THE RESPONSIBILITY OF THE TOWN OF WEST WARWICK AND SHALL INCLUDE:

- A) ANY REQUIRED REPAIR AND REPLACEMENT OF DRAINAGE STRUCTURES OR FACILITIES SHALL BE DONE PROMPTLY TO ENSURE PROPER FUNCTIONING OF THE SYSTEM.
- B) CATCH BASINS AND MANHOLES SHALL BE INSPECTED AT LEAST ONCE PER YEAR AND ANY SEDIMENT, TRASH OR DEBRIS WITHIN THE SUMPS SHALL BE REMOVED.
- C) CATCH BASINS, MANHOLES AND DRAIN LINES: AN INSPECTION MUST OCCUR ON AN ANNUAL BASIS BY QUALIFIED PERSONNEL TO ENSURE PROPER OPERATION. THE INSPECTION SHOULD, AS A MINIMUM, CONCENTRATE ON THE FOLLOWING:
 - * DAMAGE TO GRATES AND/OR COVER
 - * EVIDENCE OF STANDING WATER
 - * DEBRIS REMOVAL
 - * STRUCTURAL ALIGNMENT/ INTEGRITY

- ANY DEFICIENCY NOTED DURING THE INSPECTION SHALL BE IMMEDIATELY REPAIRED OR REPLACED.
- D) SEDIMENT REMOVAL: ALL REMOVED SEDIMENT IS TO BE TESTED TO DETERMINE POLLUTANT CONTENT. THE SEDIMENT IS TO BE PROPERLY DISPOSED IN UPLAND AREAS BASED UPON THE TEST RESULTS AND LOCAL, STATE, AND FEDERAL REGULATIONS.

- E) ALL DESIGN, CLEANING, AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL FOLLOW AT LEAST THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE DESIGN, 2004, WITH LATEST ADDITION PART 200, SECTIONS 206, 209 AND 212, AND PART 700 SECTIONS 701, 702 AND 708. WHERE APPROPRIATE, PROCEDURES REGARDING THE DRAINAGE DESIGN, AND THE INSPECTION AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL BE FOLLOWED AS OUTLINED IN THE "RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL" (RIDEM/RICRMC, SEPT. 1, 1993).

- AFTER THE COMPLETION OF THE ENTIRE PROJECT TO THE SATISFACTION OF THE ENGINEER, ALL MAINTENANCE OF THE DRAINAGE FACILITIES WITHIN PRIVATE PROPERTY INCLUDING BUT NOT LIMITED TO DETENTION BASINS, OUTLET CONTROL STRUCTURES, CATCH BASINS, PIPES, FLARED END SECTIONS AND ROOF DRAIN INFILTRATION SYSTEMS SHALL THEN BE THE RESPONSIBILITY OF THE HOMEOWNERS ASSOCIATIONS AND SHALL INCLUDE:

- A) ANY REQUIRED REPAIR AND REPLACEMENT OF DRAINAGE STRUCTURES OR FACILITIES SHALL BE DONE PROMPTLY TO ENSURE PROPER FUNCTIONING OF THE SYSTEM.
- B) SEDIMENT SHALL BE REMOVED FROM DETENTION BASINS DURING THE FIRST YEAR OF OPERATION AND EVERY 10 YEARS THEREAFTER. MORE FREQUENT SEDIMENT REMOVAL MAY BE REQUIRED IF THE SEDIMENT STORAGE CAPACITY OF THE FOREBAY OR POND IS EXCEEDED OR WHEN THE SEDIMENT DEPTH REACHED 6 INCHES, WHICHEVER COMES FIRST.
- C) CATCH BASINS, MANHOLES AND DRAIN LINES: AN INSPECTION MUST OCCUR ON AN ANNUAL BASIS BY QUALIFIED PERSONNEL TO ENSURE PROPER OPERATION. THE INSPECTION SHOULD, AS A MINIMUM, CONCENTRATE ON THE FOLLOWING:
 - * DAMAGE TO GRATES AND/OR COVER
 - * EVIDENCE OF STANDING WATER
 - * DEBRIS REMOVAL
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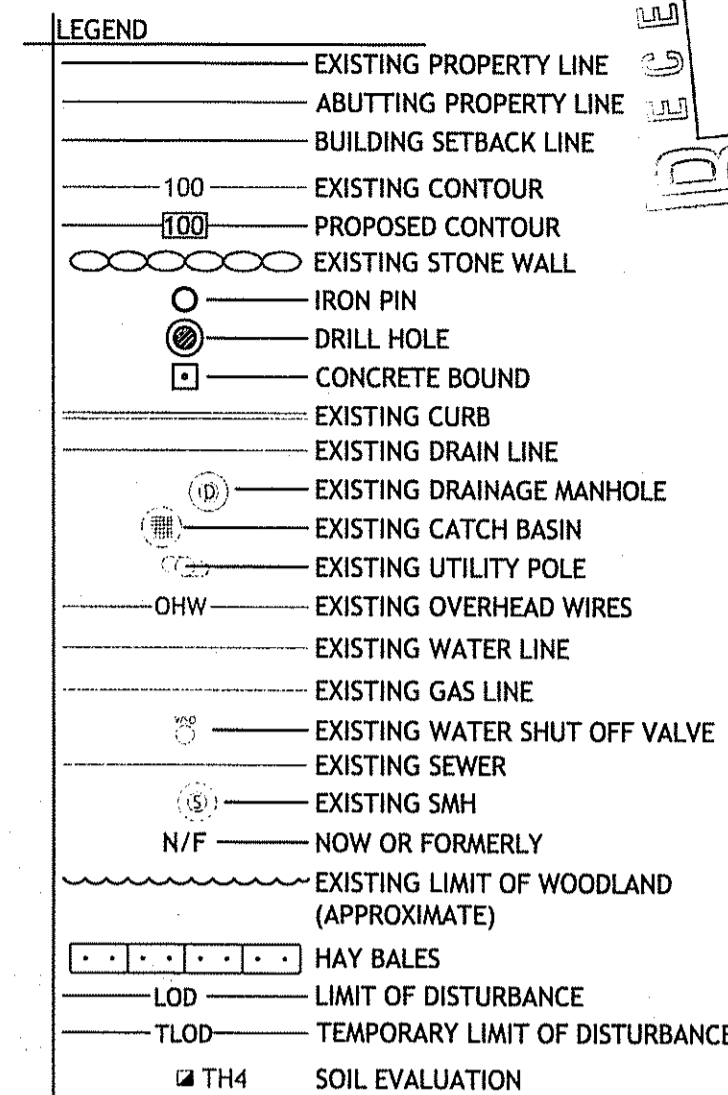
- ANY DEFICIENCY NOTED DURING THE INSPECTION SHALL BE IMMEDIATELY REPAIRED OR REPLACED.
- D) DETENTION BASINS AND SWALES SHALL BE MOWED AT LEAST ONCE DURING THE MOWING SEASON TO PREVENT UNWANTED WOOD GROWTH.

- E) DETENTION BASINS AND SWALES SHALL BE INSPECTED AFTER MAJOR STORM EVENTS OR AN ANNUAL BASIS. REPAIRS SHALL BE PERFORMED IMMEDIATELY AS CONDITIONS WARRANT. BARE SPOTS AND ERODED AREAS SHALL BE RESEDED IMMEDIATELY FOLLOWING OBSERVATION. ALL LITTER AND TRASH SHALL BE REMOVED FROM DETENTION BASINS, SWALES AND PIPE INLETS DURING INSPECTION.

- F) SEDIMENT REMOVAL: ALL REMOVED SEDIMENT IS TO BE TESTED TO DETERMINE POLLUTANT CONTENT. THE SEDIMENT IS TO BE PROPERLY DISPOSED IN UPLAND AREAS BASED UPON THE TEST RESULTS AND LOCAL, STATE, AND FEDERAL REGULATIONS.

- G) ALL DESIGN, CLEANING, AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL FOLLOW AT LEAST THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE DESIGN, 2004, WITH LATEST ADDITION PART 200, SECTIONS 206, 209 AND 212, AND PART 700 SECTIONS 701, 702 AND 708. WHERE APPROPRIATE, PROCEDURES REGARDING THE DRAINAGE DESIGN, AND THE INSPECTION AND MAINTENANCE OF THE STORMWATER DRAINAGE SYSTEM SHALL BE FOLLOWED AS OUTLINED IN THE "RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL" (RIDEM/RICRMC, SEPT. 1, 1993).

- H) INFILTRATION SYSTEM SHALL BE CHECKED ANNUALLY TO ENSURE PROPER FUNCTIONING OFF THE SYSTEM.



CASALI & D'AMICO ENGINEERING, INC.
CIVIL SITE DESIGN/PAVEMENT DESIGN/TRANSPORTATION ENGINEERING
185 WEST MAIN STREET, SUITE 100, WEST WARWICK, RI 02886
DRAINAGE - 3000 POST ROAD, WARWICK, RI 02886
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CDE

DAVID M. D'AMICO
No. 6715
REGISTERED PROFESSIONAL ENGINEER
CIVIL
11/10/08

BARBERS FARM SUBDIVISION
6 BARBERS COURT
WEST WARWICK, RHODE ISLAND
AP 37 LOTS 194 & 437

REVISIONS:

NO.	DATE	DESCRIPTION
1	11/07	TRC COMMENTS
2	05/08	RIDEM SUBMISSION
3	08/08	KCWA SUBMISSION & RIDEM COMMENTS
4	10/08	SEWER SUBMISSION
5	11/08	RIDEM COMMENTS II & SEWER COMMENTS

DESIGNED BY: JKB/GEC
DRAWN BY: GAH
CHECKED BY: DMD
DATE: OCTOBER 2007
PROJECT NO: 07-11b

PRELIMINARY, NOT FOR CONSTRUCTION

GENERAL NOTES AND LEGEND

SHEET 3 OF 15

REVISAD PER DEM!
REMOVE "ROOF DRAIN INFILTRATION SYSTEMS" FROM HOME OWNERS ASSOCIATION REQUIREMENTS

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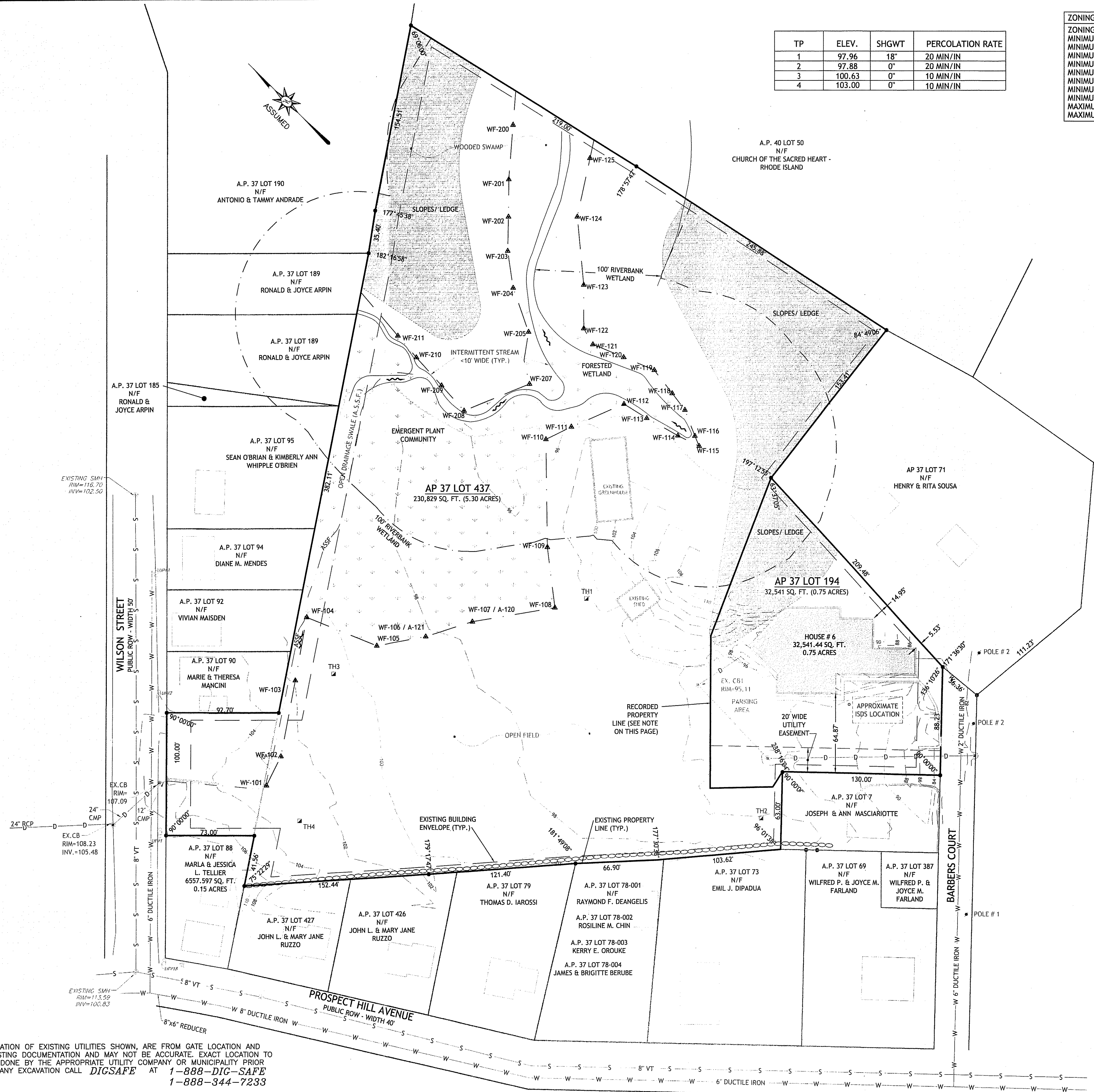
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 22 2008 FILE # 08-0157
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

J. Joseph Conroy

TP	ELEV.	SHGWT	PERCOLATION RATE
1	97.96	18"	20 MIN/IN
2	97.88	0"	20 MIN/IN
3	100.63	0"	10 MIN/IN
4	103.00	0"	10 MIN/IN

ZONING CRITERIA-	REQUIRED	EXIST. LOT 437	EXIST. LOT 194
ZONING DISTRICT	R-6	R-6	R-6
MINIMUM LOT AREA (SINGLE FAMILY)	6,000 SF	230,829	32,541 SF
MINIMUM LOT AREA (TWO FAMILY)	8,000 SF		
MINIMUM LOT WIDTH	60 FT	100 FT	88 FT
MINIMUM LOT DEPTH	60 FT	100 FT	189 FT
MINIMUM FRONTAGE	55 FT	100 FT	88 FT
MINIMUM FRONT YARD SETBACK	20 FT	100 FT	22 FT
MINIMUM SIDE YARD SETBACK	6 FT	VACANT	9 FT
MINIMUM REAR YARD SETBACK	20 FT	VACANT	370 FT
MAXIMUM BUILDING COVERAGE	30 %	VACANT	6%
MAXIMUM BUILDING HEIGHT	35 FT	VACANT	UNKNOWN

IMPERVIOUS AREA CALCULATIONS:
 AREA OF LOTS
 AP 37 LOT 194 21,655 SF
 AP 37 LOT 437 2,802 SF
TOTAL IMPERVIOUS = 24,467 SF

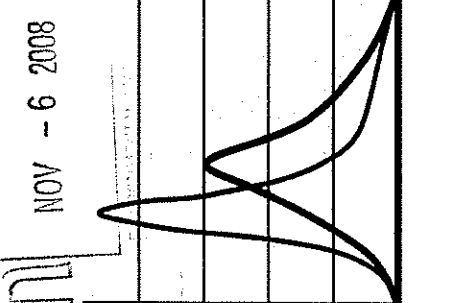
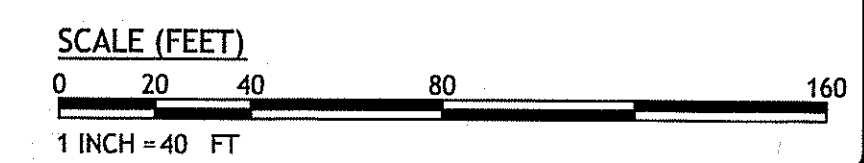


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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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W. Joseph Conroy

NOTE:
 1. THE PROPERTY LINES DEPICTED IN THIS PLAN WERE TAKEN FROM THE RECORDED PLATS AT THE TOWN OF WEST WARWICK, HOWEVER THE PROPERTY LINE BETWEEN LOTS 194 & 437 WAS NOT APPROVED BY THE PLANNING BOARD. THIS PROPERTY LINE WILL BE RE-RECORDED WITH THIS MAJOR SUBDIVISION AFTER ALL TOWN APPROVALS.



CDE
 CASALI & D'AMICO ENGINEERING, INC.
 CIVIL, SITE DEVELOPMENT, TRANSPORTATION
 DRAINAGE, WETLANDS, WATER RESOURCES
 401 944-1000 (01)944-1313 fax www.casaliandamico.com

DAVID M. D'AMICO
 No. 6745
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 11/08

BARBERS FARM SUBDIVISION
6 BARBERS COURT
WEST WARWICK, RHODE ISLAND
AP 37 LOTS 194 & 437

REVISIONS:

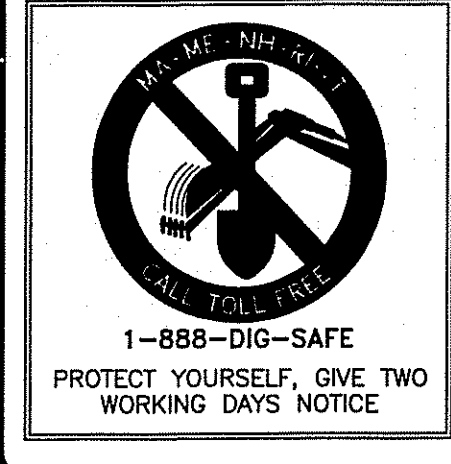
NO.	DATE	DESCRIPTION
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5	11/08	RIDEM COMMENTS II & SEWER COMMENTS

DESIGNED BY: JKB/GEC
 DRAWN BY: GAH
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 DATE: OCTOBER 2007
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PRELIMINARY, NOT FOR CONSTRUCTION

EXISTING CONDITIONS

SHEET 4 OF 15



LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION CALL DIGSAFE AT 1-888-DIG-SAFE AT 1-888-344-7233

ZONING CRITERIA-	REQUIRED	LOT 1	LOT 2	LOT 3	LOT 4	LOT 5	LOT 6	LOT 7	LOT 8	LOT 9	LOT 10
ZONING DISTRICT	R-6	R-6	R-6	R-6	R-6	R-6	R-6	R-6	R-6	R-6	R-6
MINIMUM LOT AREA (SINGLE FAMILY)	6,000 SF	9,247 SF	6,000 SF	6,000 SF	6,000 SF	13,520 SF	17,100 SF	20,048 SF	18,272 SF	113,768 SF	32,544 SF
MINIMUM LOT AREA (TWO FAMILY)	8,000 SF										
MINIMUM LOT WIDTH	60 FT	69 FT	70 FT	71 FT	72 FT	75 FT	90 FT	106 FT	90 FT	440 FT	88 FT
MINIMUM LOT DEPTH	60 FT	85 FT	85 FT	84 FT	84 FT	84 FT	130 FT	201 FT	130 FT	370 FT	189 FT
MINIMUM FRONTAGE	55 FT	147 FT	71 FT	71 FT	72 FT	75 FT	75 FT	168 FT	94 FT	140 FT	88 FT
MINIMUM FRONT YARD SETBACK	20 FT	20 FT	24 FT	24 FT	24 FT	28 FT	21 FT	21 FT	25 FT	N/A	22 FT
MINIMUM SIDE YARD SETBACK	6 FT	7 FT	6 FT	6 FT	6 FT	15 FT	9 FT	11 FT	8 FT	N/A	9 FT
MINIMUM REAR YARD SETBACK	20 FT	23 FT	36 FT	35 FT	35 FT	33 FT	85 FT	117 FT	150 FT	N/A	370 FT
MAXIMUM BUILDING COVERAGE	30 %	13%	21%	21%	21 %	9%	7%	6%	6%	N/A	6%
MAXIMUM BUILDING HEIGHT	35 FT	<35 FT	<35 FT	<35 FT	<35 FT	<35 FT	<35 FT	<35 FT	<35 FT	VACANT	UNKNOWN

DENSITY CALCULATIONS:

LOT AREA:	LOT 194	LOT 437	TOTAL
	32,541 SF	230,860 SF	263,401 SF
APPROXIMATE AREA OF WETLANDS:	0 SF	63,166 SF	63,166 SF
APPROXIMATE AREAS OF LEDGE:	6,681 SF	38,798 SF	45,479 SF
APPROXIMATE UNSUITABLE AREA:	6,681 SF	101,964 SF	108,645 SF
APPROXIMATE BUILDABLE AREA:	25,860 SF	128,896 SF	154,756 SF

APPROXIMATE ALLOWED LOTS:
 154,756 SF / 6,000 SF X 1 LOT = 25.79 (25 UNITS)
 PROVIDED: 8 LOTS WITH ONE (1) OPEN SPACE LOT

IMPERVIOUS AREA CALCULATIONS:

AREA OF LOTS	AP 37 LOT 194	AP 37 LOT 437	TOTAL
	21,655 SF	2,802 SF	24,457 SF
TOTAL IMPERVIOUS =	24,467 SF		

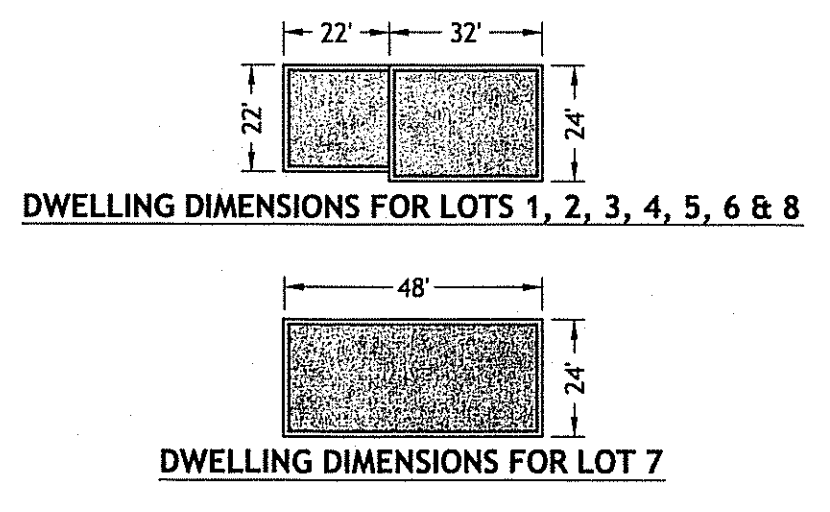
PROPOSED PARKING CALCULATIONS:
 FOR THE TOWN OF WEST WARWICK, RI 02882
 PARKING SPACES PER DWELLING UNIT ARE REQUIRED.

REQUIRED	18 SPACES
PROVIDED	18 SPACES

OPEN SPACE:
 113,768 SF OF OPEN SPACE

PROPOSED ROADWAY PAVEMENT STRUCTURE:
 1 1/2" BITUMINOUS CONCRETE SURFACE COURSE, CLASS I, TYPE I-1
 1 1/2" MODIFIED BITUMINOUS CONCRETE BINDER COURSE
 12" GRAVEL BORROW BASE COURSE

PROPOSED DRIVEWAY PAVEMENT STRUCTURE:
 2" BITUMINOUS CONCRETE SURFACE COURSE, CLASS I, TYPE I-1
 8" GRAVEL BORROW BASE COURSE



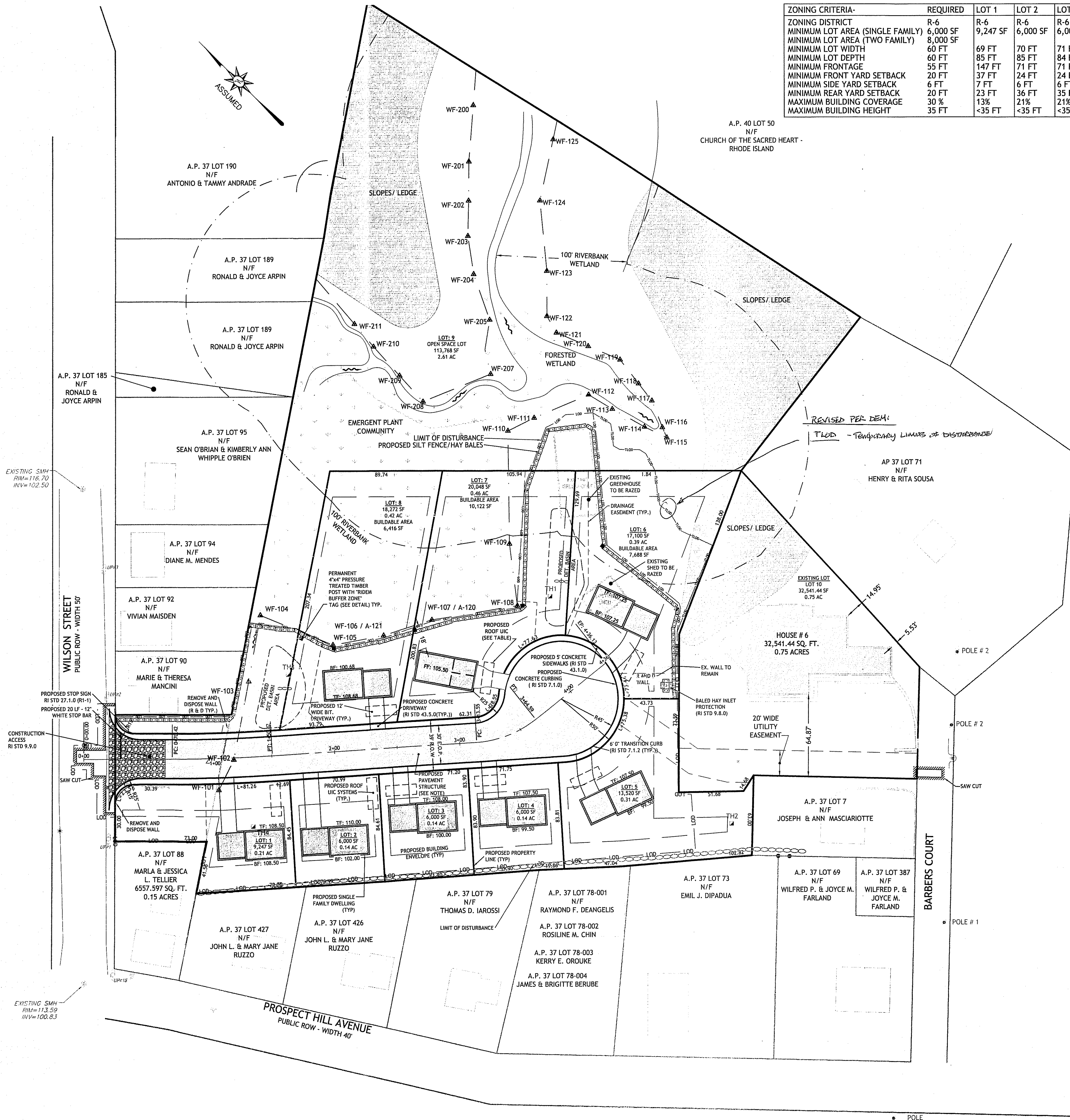
NOTE:

- NO LIGHTING IN REAR YARD OF LOTS 7 & 8
- CONTRACTOR SHALL REMOVE ANY UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- THE FRONT OF ALL HOUSES INCLUDING THE GARAGE MUST BE CONNECTED INTO THE PROPOSED ROOFTOP DRAINAGE SYSTEMS.

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W. Joseph Conroy



CDE
 CASALI & DAMICO ENGINEERING, INC.
 CIVIL - SITE DEVELOPMENT - TRANSPORTATION
 DRAINAGE - WETLANDS - WATER RESOURCES
 1000 POST ROAD, WARWICK, RI 02886
 (401) 944-1300 (401) 944-1313 fax www.casaliandamico.com

DAVID M. DAMICO
 No. 6745
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 1/12/08

BARBERS FARM SUBDIVISION
6 BARBERS COURT
WEST WARWICK, RHODE ISLAND
AP 37 LOTS 194 & 437

REVISIONS:

NO.	DATE	DESCRIPTION
1	11/07	TRC COMMENTS
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3	08/08	KCWA SUBMISSION & RIDEM COMMENTS
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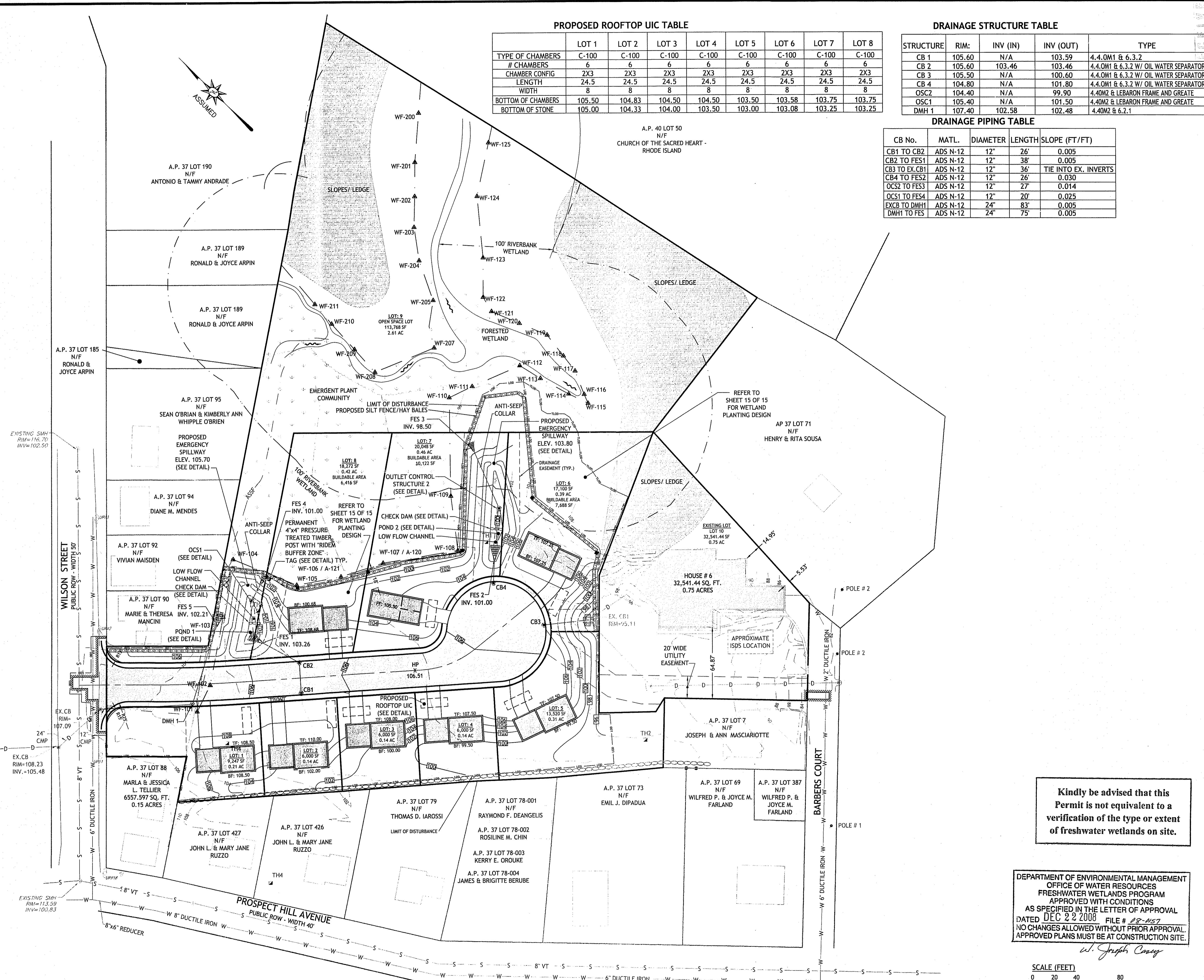
DESIGNED BY: JKB/GEC
 DRAWN BY: GAH
 CHECKED BY: DMD
 DATE: OCTOBER 2007
 PROJECT NO: 07-11b

PRELIMINARY, NOT FOR CONSTRUCTION

SITE PLAN

SHEET 5 OF 15

L:\2007-11 BARBERS FARM SUBDIVISION\1108 BARBERS COURT\1108 BARBERS COURT.dwg 11/12/08 10:00 AM



PROPOSED ROOFTOP UIC TABLE

	LOT 1	LOT 2	LOT 3	LOT 4	LOT 5	LOT 6	LOT 7	LOT 8
TYPE OF CHAMBERS	C-100	C-100	C-100	C-100	C-100	C-100	C-100	C-100
# CHAMBERS	6	6	6	6	6	6	6	6
CHAMBER CONFIG	2X3	2X3	2X3	2X3	2X3	2X3	2X3	2X3
LENGTH	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
WIDTH	8	8	8	8	8	8	8	8
BOTTOM OF CHAMBERS	105.50	104.83	104.50	104.50	103.50	103.58	103.75	103.75
BOTTOM OF STONE	105.00	104.33	104.00	103.50	103.00	103.08	103.25	103.25

DRAINAGE STRUCTURE TABLE

STRUCTURE	RIM	INV (IN)	INV (OUT)	TYPE
CB 1	105.60	N/A	103.59	4.4.0M1 & 6.3.2
CB 2	105.60	103.46	103.46	4.4.0M1 & 6.3.2 W/ OIL WATER SEPARATOR
CB 3	105.50	N/A	100.60	4.4.0M1 & 6.3.2 W/ OIL WATER SEPARATOR
CB 4	104.80	N/A	101.80	4.4.0M1 & 6.3.2 W/ OIL WATER SEPARATOR
OSC2	104.40	N/A	99.90	4.4.0M2 & LEBARON FRAME AND GREATE
OSC1	105.40	N/A	101.50	4.4.0M2 & LEBARON FRAME AND GREATE
DMH 1	107.40	102.58	102.48	4.4.0M2 & 6.2.1

DRAINAGE PIPING TABLE

CB No.	MATL.	DIAMETER	LENGTH	SLOPE (FT/FT)
CB1 TO CB2	ADS N-12	12"	26'	0.005
CB2 TO FES1	ADS N-12	12"	38'	0.005
CB3 TO EX.CB1	ADS N-12	12"	36'	TIE INTO EX. INVERTS
CB4 TO FES2	ADS N-12	12"	26'	0.030
OC2 TO FES3	ADS N-12	12"	27'	0.014
OC1 TO FES4	ADS N-12	12"	20'	0.025
EXCB TO DMH1	ADS N-12	24"	83'	0.005
DMH1 TO FES	ADS N-12	24"	75'	0.005

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SCALE (FEET)
0 20 40 80 160
1 INCH = 40 FT

CDE
CASALI & D'AMICO ENGINEERING, INC.
CIVIL - SITE DEVELOPMENT - TRANSPORTATION
DRAINAGE - WETLANDS - IBDS - TRAFFIC - FLOODPLAIN
(601) 944-5000 (0018440133) www.cdeinc.com

DAVID M. D'AMICO
REGISTERED PROFESSIONAL ENGINEER
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11/108

BARBERS FARM SUBDIVISION
6 BARBERS COURT
WEST WARWICK, RHODE ISLAND
AP 37 LOTS 194 & 437

REVISIONS:

NO.	DATE	DESCRIPTION
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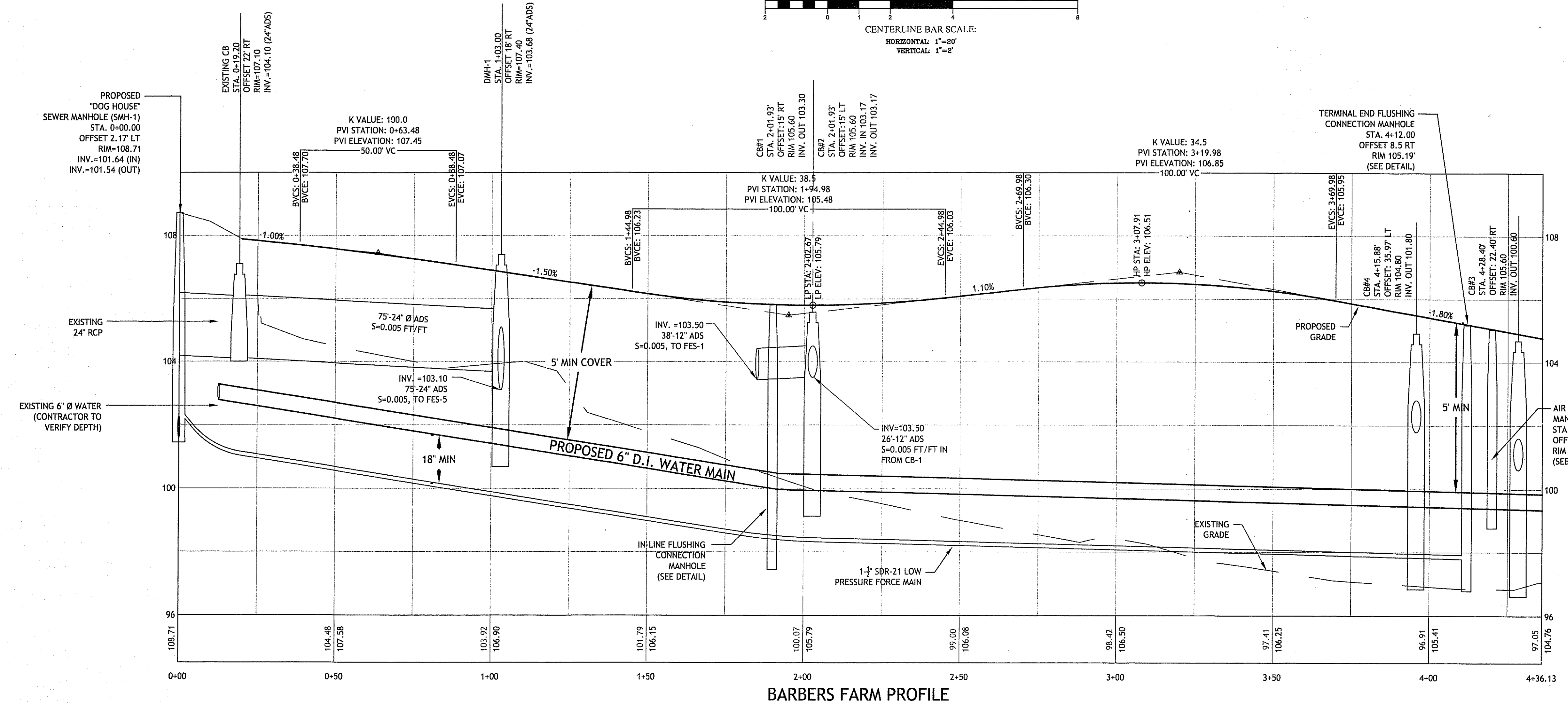
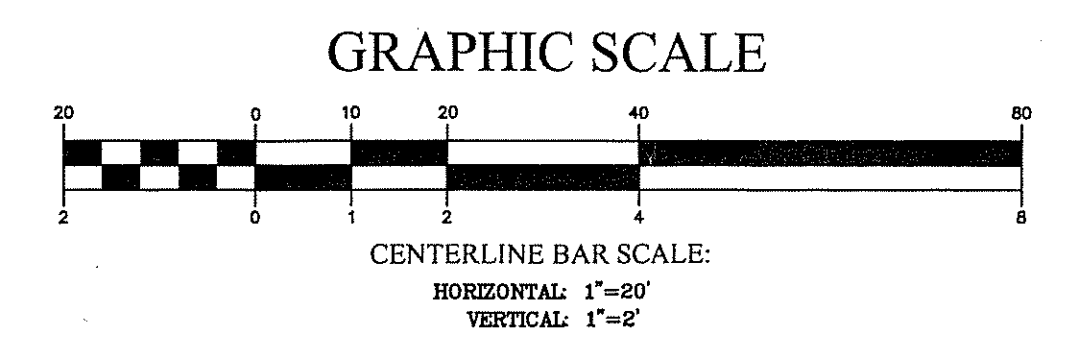
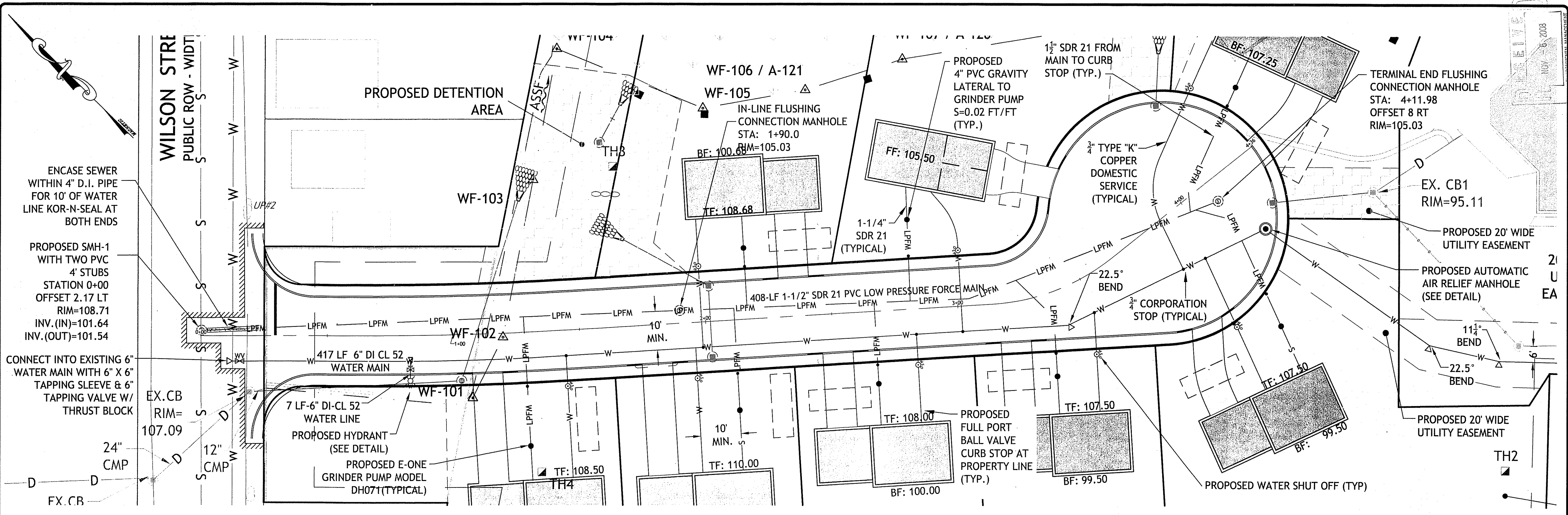
DESIGNED BY: JKB/GEC
DRAWN BY: GAH
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PRELIMINARY, NOT FOR CONSTRUCTION

GRADING & DRAINAGE PLAN

SHEET 6 OF 15

Q:\07-11 Antonio Gianusso\07-11b 6 Barbers C\ACAD\PLANSET\GIARRUSSO (plan set).dwg Nov. 06, 2008 10:19am



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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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W. Joseph Casey

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300 POST ROAD, WARWICK, RI 02886
(401) 944-1300 (401) 944-1313 fax www.casaliandamico.com

DAVID M. DIAMICO
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CIVIL
11/6/08

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6 BARBERS COURT
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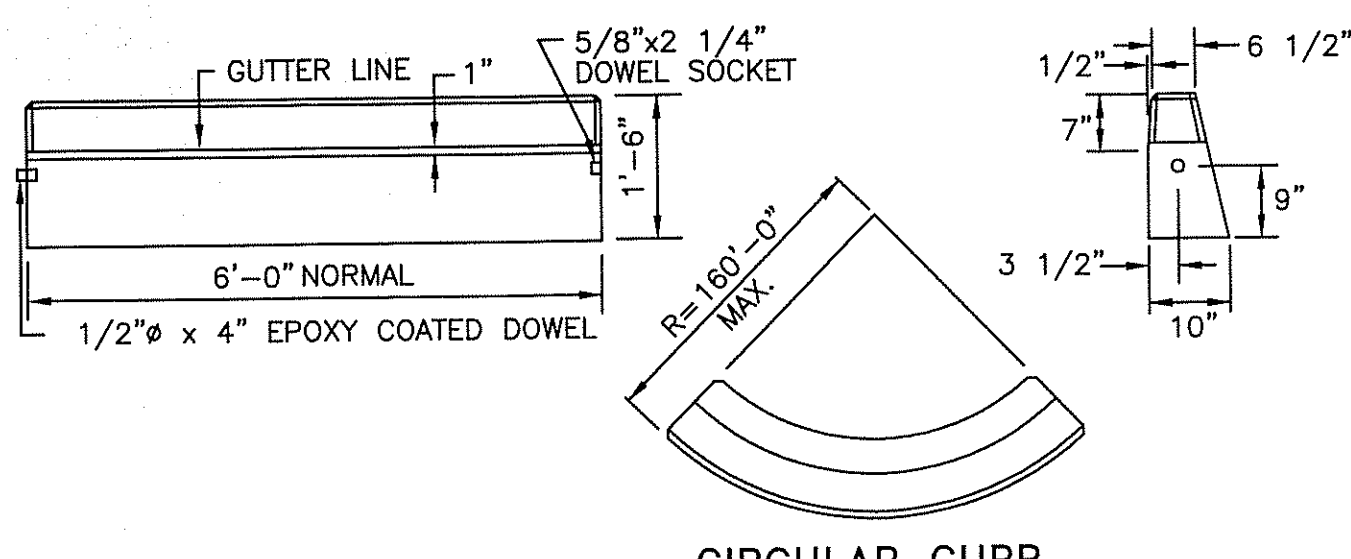
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PROFILE PLAN

SHEET 8 OF 15

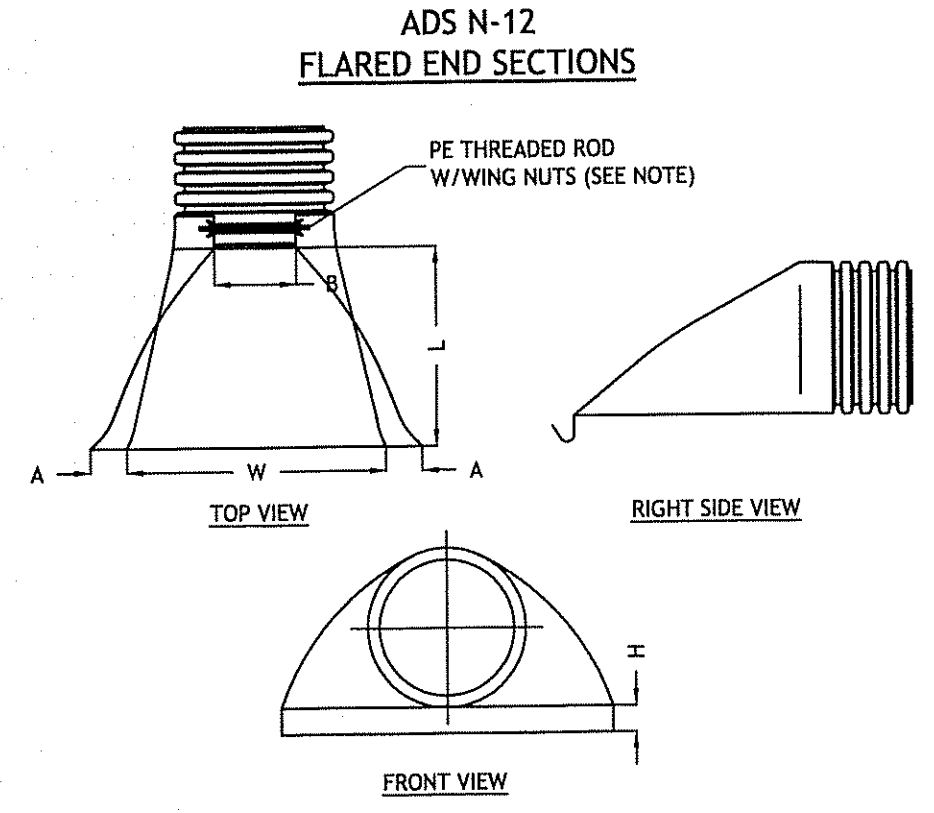


CIRCULAR CURB

- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 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 RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADII.
 5. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

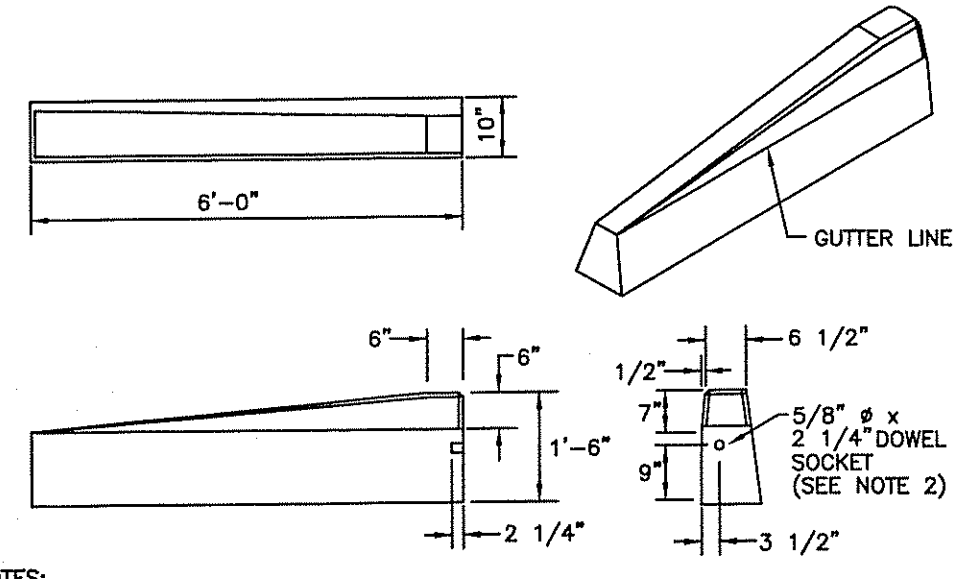
PRECAST CONCRETE CURB

STANDARD 7.1.0



PART N. & S.	PIPE SIZE	A	B (MAX)	H	L	W
1210-NP	12"	6.5"	10"	6.5"	25"	29"
	300 mm	165 mm	254 mm	165 mm	635 mm	735 mm
1210-NP	15"	6.5"	10"	6.5"	25"	29"
	375 mm	165 mm	254 mm	165 mm	635 mm	735 mm
1810-NP	18"	7.5"	12"	7.5"	32"	35"
	450 mm	190 mm	380 mm	190 mm	812 mm	890 mm
2410-NP	24"	7.5"	18"	6.5"	36"	45"
	600 mm	190 mm	450 mm	165 mm	900 mm	1140 mm
3012-NP	30"	10.5"	N/A	7.0"	53"	68"
	750 mm	266 mm	N/A	178 mm	1345 mm	1725 mm
3612-NP	36"	10.5"	N/A	7.0"	53"	68"
	900 mm	266 mm	N/A	178 mm	1345 mm	1725 mm

NOTE: PE THREADED ROD W/ WING NUTS PROVIDED FOR END SECTIONS 12"-24", 30" & 36" END SECTIONS TO BE WELDED TO PIPE PER MANUFACTURER'S RECOMMENDATIONS.



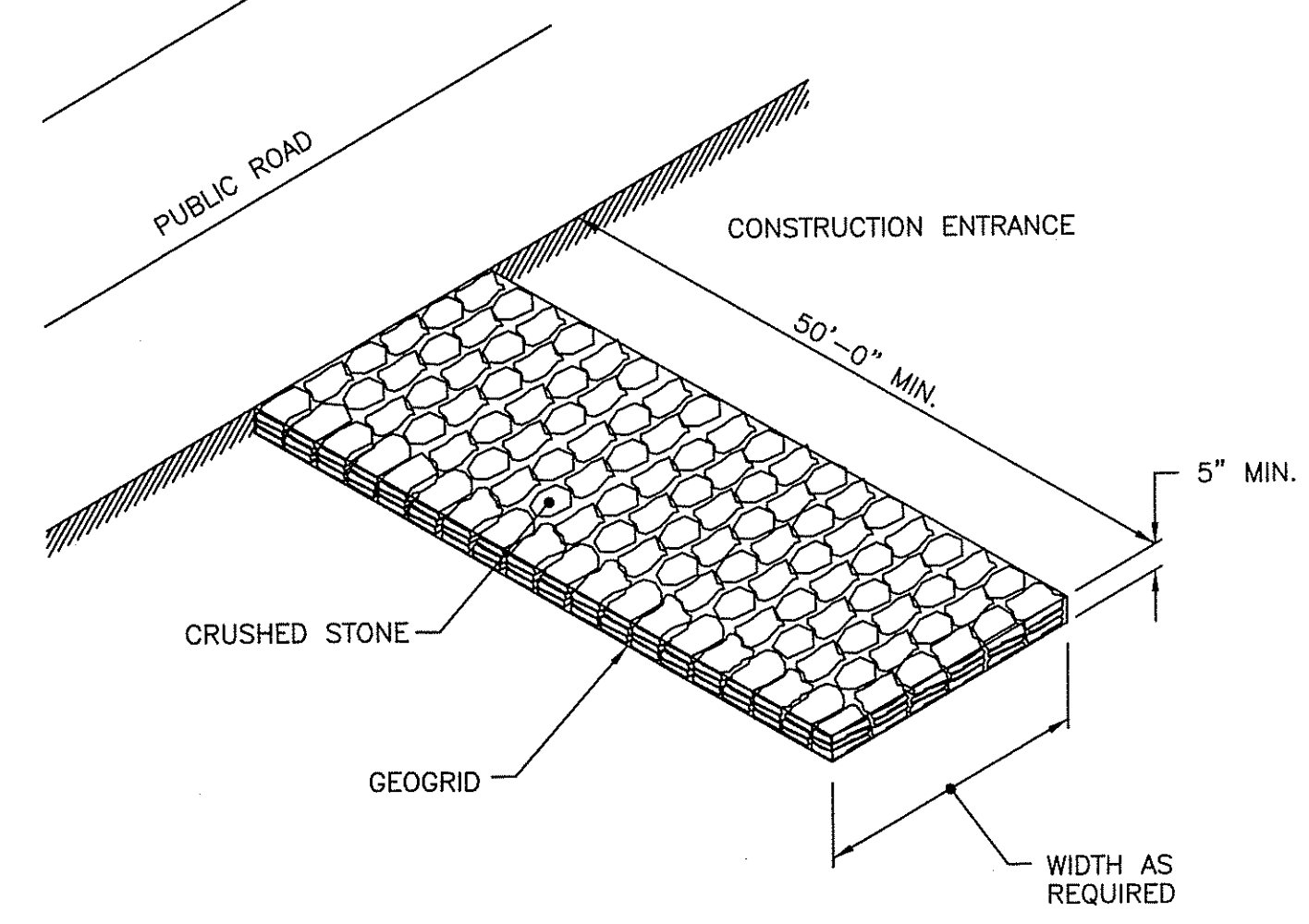
6'-0" PRECAST CONCRETE TRANSITION CURB

R.I. STANDARD 7.1.2

SIGN NUMBER	*R1-1
LEGEND	STOP
COLOR	BACKGROUND RED COPY WHITE
SIGN DIMENSION	WIDTH 24" 30" 36" 48" HEIGHT 24" 30" 36" 48"

REGULATORY SIGNS

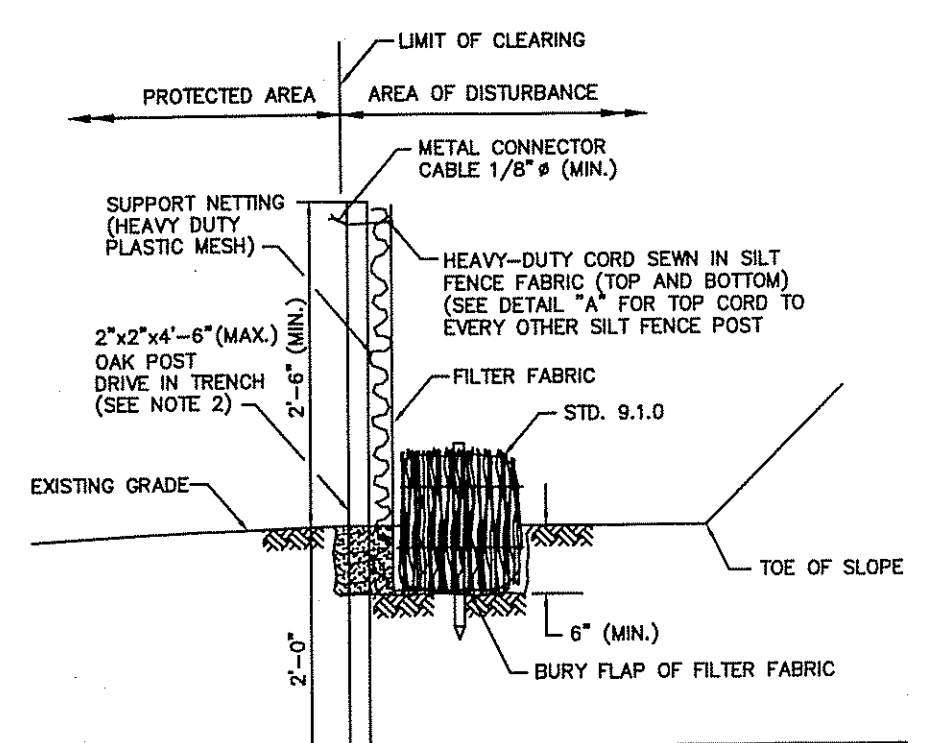
R.I. STANDARD 27.1.0



NOTE: SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

CONSTRUCTION ACCESS

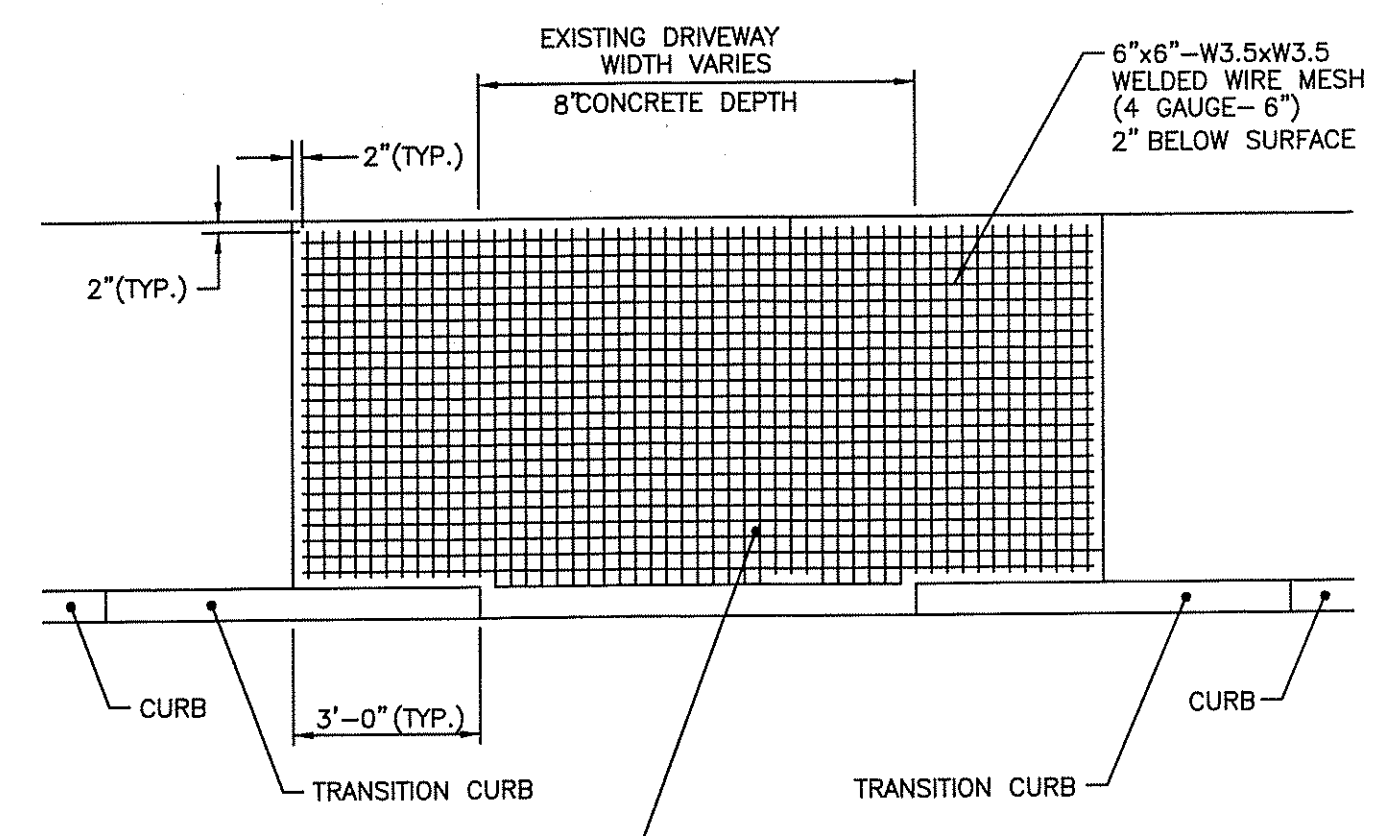
R.I. STANDARD 9.9.0



- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 208 OF THE R.I. STANDARD SPECIFICATIONS.
 2. STD. 9.1.0 IS INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SUT. STD. 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x2"x4"-8" (MAX.) OAK POST FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAINING, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 3. 1"x1"x4"-8" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 4. SILT FENCE AND BALED HAY SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

BALED HAY EROSION CHECK AND SILT FENCE COMBINED

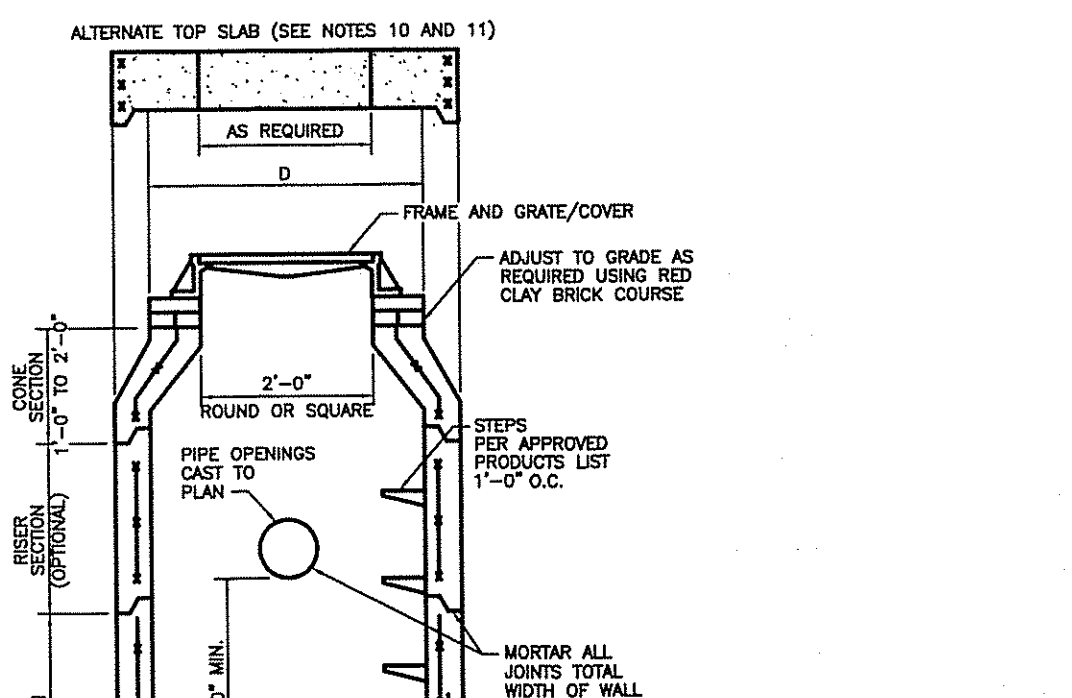
R.I. STANDARD 9.3.0



FOR DRIVEWAY DEVELOPMENT SEE STD. 43.4.0 OR 43.4.1 (AS REQUIRED)

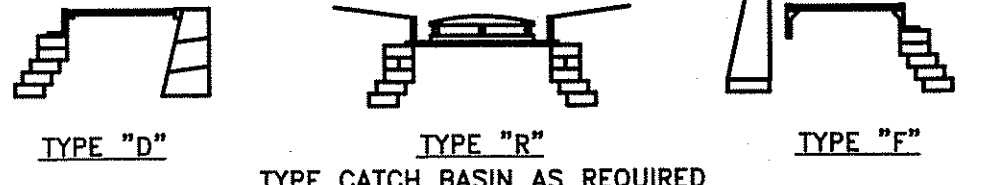
CEMENT CONCRETE DRIVEWAYS

R.I. STANDARD 43.5.0



CATCH BASIN DIAMETER (D)	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*	
	A	B
4'-0"	5"	6"
5'-0"	6"	7"
6'-0"	7"	8"

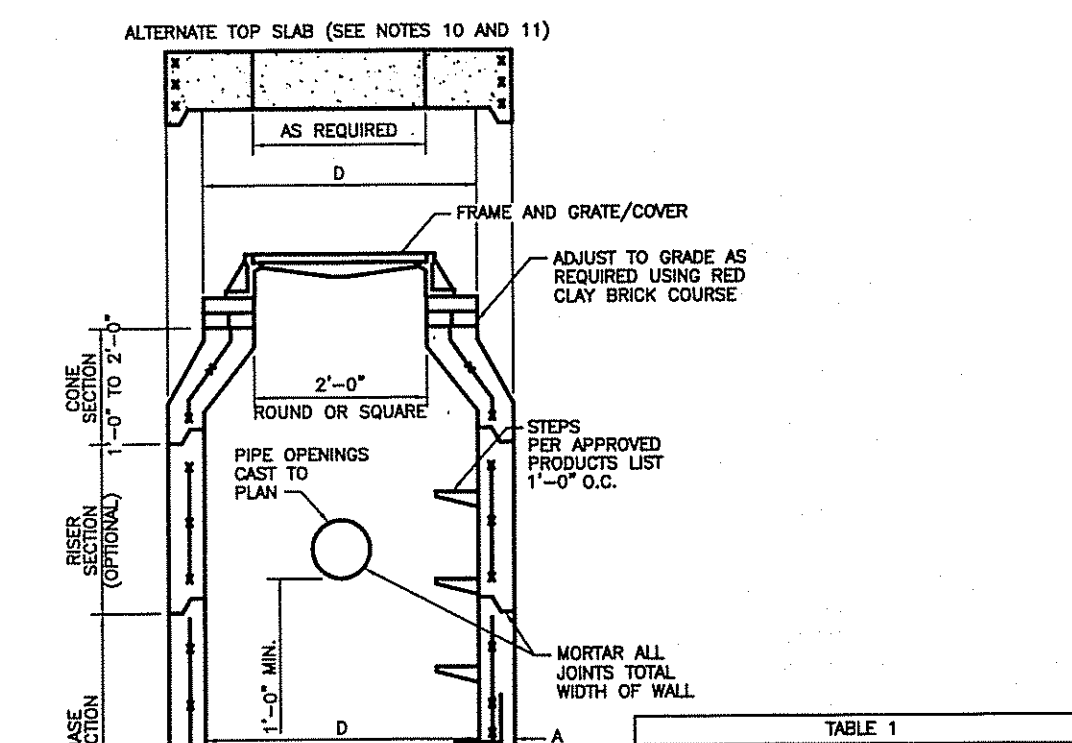
* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2



- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 2. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
 3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
 4. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 5. ONE POUR MONOLITHIC BASE SECTION.
 6. 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.
 7. CORING MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "TONE SECTION" OF THE 4'-0" CATCH BASIN ONLY.
 8. FOR CATCH BASIN TYPES "D" AND "F" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
 9. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
 10. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
 11. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
 12. REFER TO STD. 5.3.0 FOR MAXIMUM PIPE SIZES.

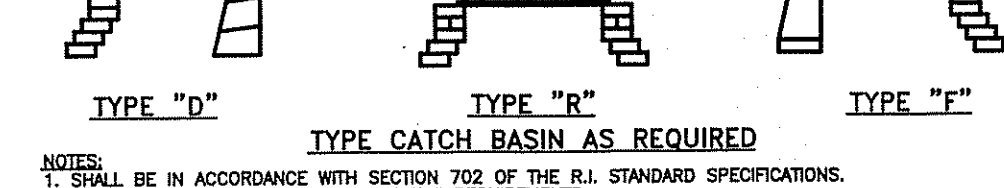
PRECAST 4'-0", 5'-0" OR 6'-0" ROUND CATCH BASIN

STANDARD 4.4.0 M1



CATCH BASIN DIAMETER (D)	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*	
	A	B
4'-0"	5"	6"
5'-0"	6"	7"
6'-0"	7"	8"

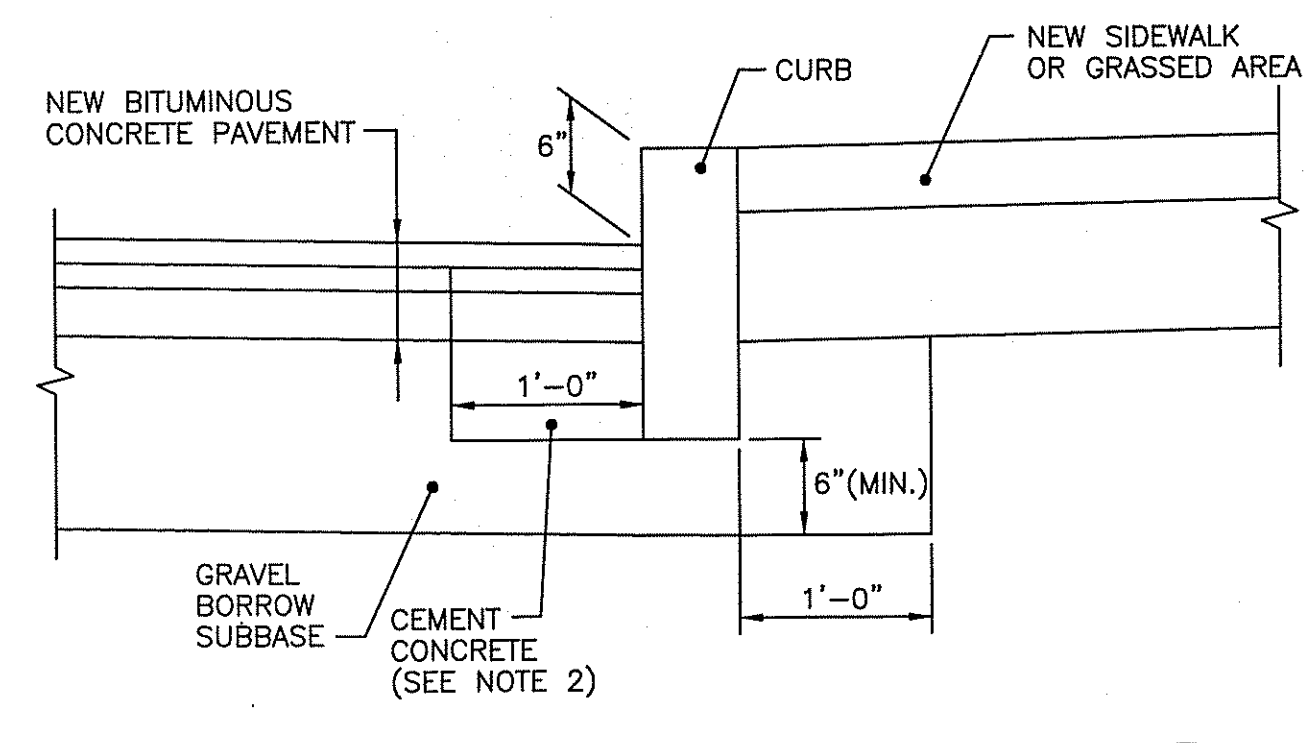
* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2



- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 2. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
 3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
 4. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 5. ONE POUR MONOLITHIC BASE SECTION.
 6. 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.
 7. CORING MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "TONE SECTION" OF THE 4'-0" CATCH BASIN ONLY.
 8. FOR CATCH BASIN TYPES "D" AND "F" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
 9. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
 10. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
 11. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
 12. REFER TO STD. 5.3.0 FOR MAXIMUM PIPE SIZES.

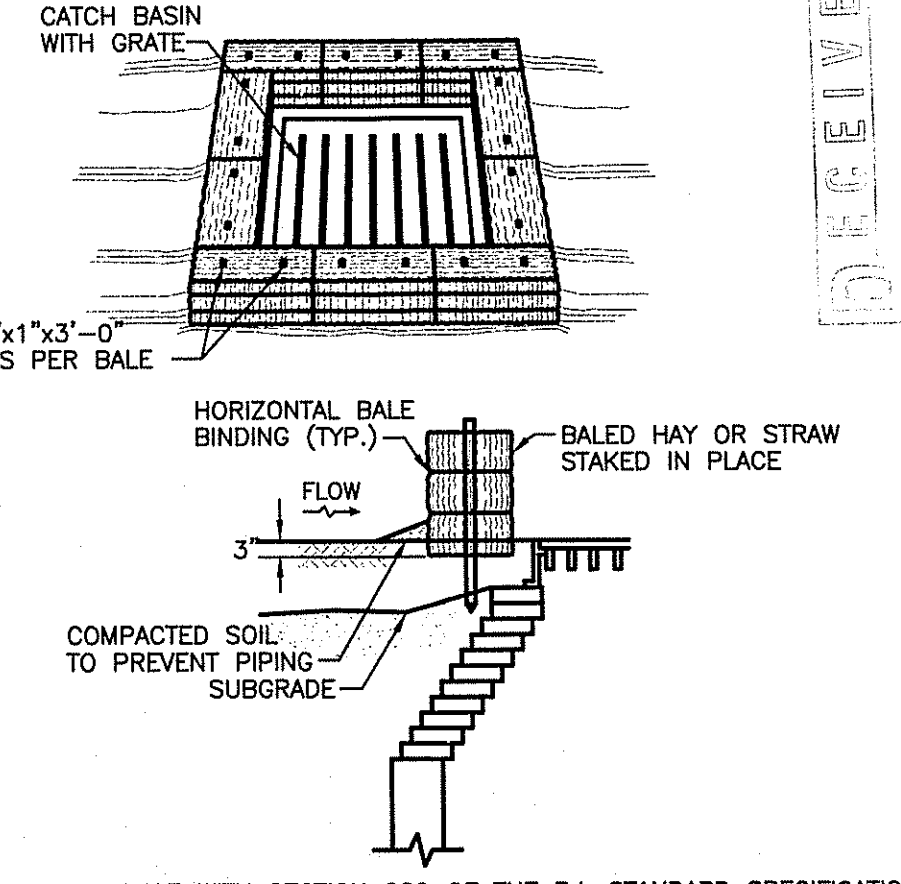
PRECAST 4'-0", 5'-0" OR 6'-0" ROUND CATCH BASIN

R.I. STANDARD 4.4.0 M2



CURB SETTING DETAIL

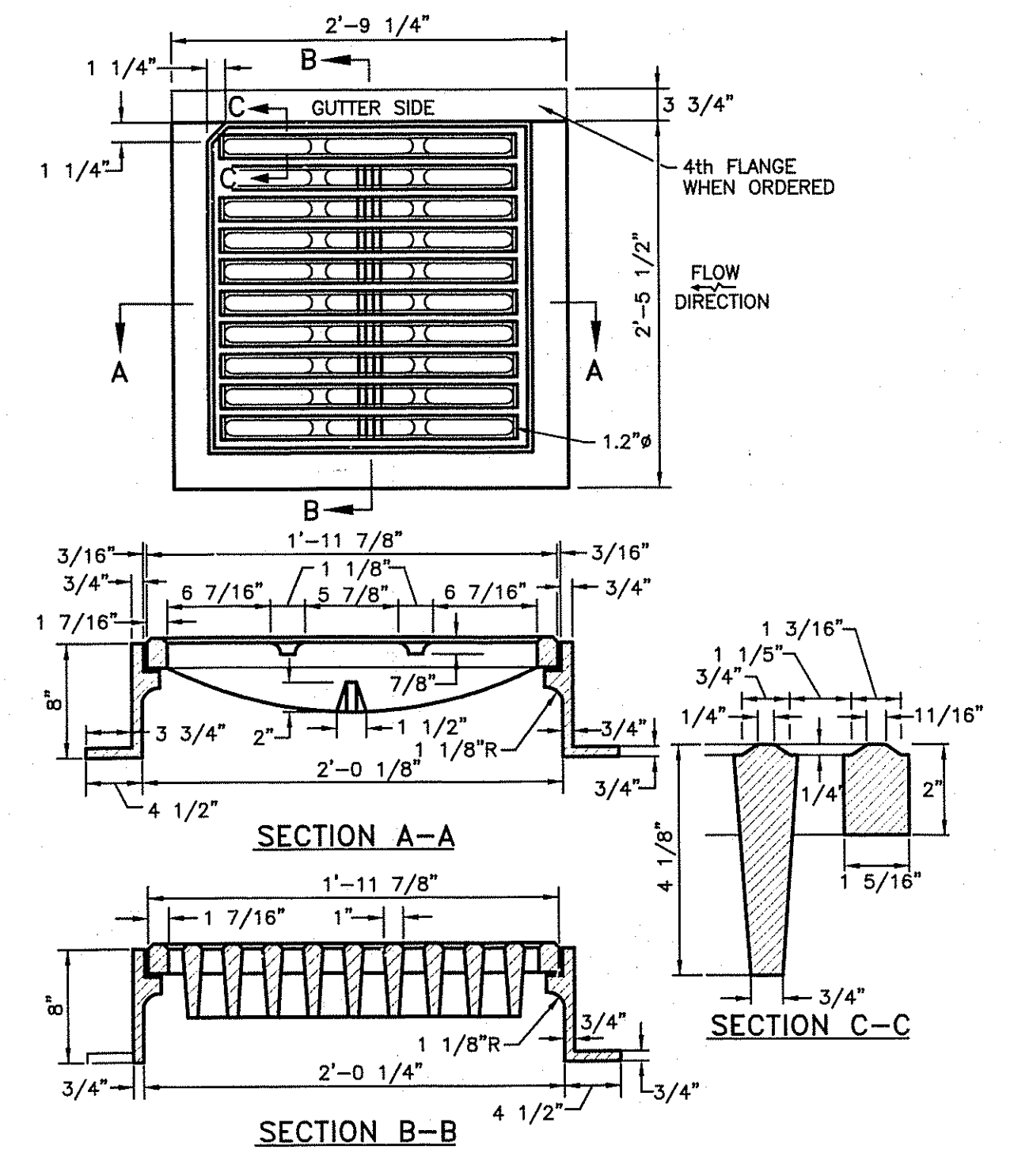
R.I. STANDARD 7.6.0



- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 208 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THIS INLET PROTECTION CAN ALSO BE USED WHEN CONSTRUCTION SEQUENCING REQUIRES A CATCH BASIN TO BE EXPOSED TO SEDIMENT FROM THE SUBGRADE. THIS WILL BE ACHIEVED BY INSTALLING THE BALED HAY AS SHOWN ON THIS DETAIL INTO THE SUBGRADE.
 3. THE PERIMETER CONFIGURATION OF THE BALED HAY WILL VARY DEPENDING ON THE PARTICULAR TYPE OF CATCH BASIN INLET BEING CONSTRUCTED. THE ENGINEER WILL PROVIDE SPECIFIC DIRECTION IN SUCH CASES.

BALED HAY CATCH BASIN INLET PROTECTION

R.I. STANDARD 9.8.0



SQUARE FRAME AND GRATE (BICYCLE SAFE)

R.I. STANDARD 6.3.2

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 2. CEMENT CONCRETE SHALL BE USED ONLY WHEN THE CURB IS SET AFTER THE BASE AND/OR BINDER COURSES ARE IN PLACE. OTHERWISE THE CEMENT CONCRETE WILL BE ELIMINATED AND THE GRAVEL BROUGHT UP TO BOTTOM OF THE BASE COURSE.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 22 2008 FILE # 08-2007
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Conroy

CDE
CASALI & D'AMICO ENGINEERING, INC.
LOCAL CONSULTANTS, TRANSPORTATION
DRAINAGE, WETLANDS, ISDS, TRAFFIC, FLOODPLAIN
300 POST ROAD, WARWICK, RI 02886
(401) 944-1300 (401) 944-0133 fax
www.casaliandamico.com

DAVID M. D'AMICO
REGISTERED PROFESSIONAL ENGINEER
CIVIL
11/0/08

BARBERS FARM SUBDIVISION
6 BARBERS COURT
WEST WARWICK, RHODE ISLAND
AP 37 LOTS 194 & 437

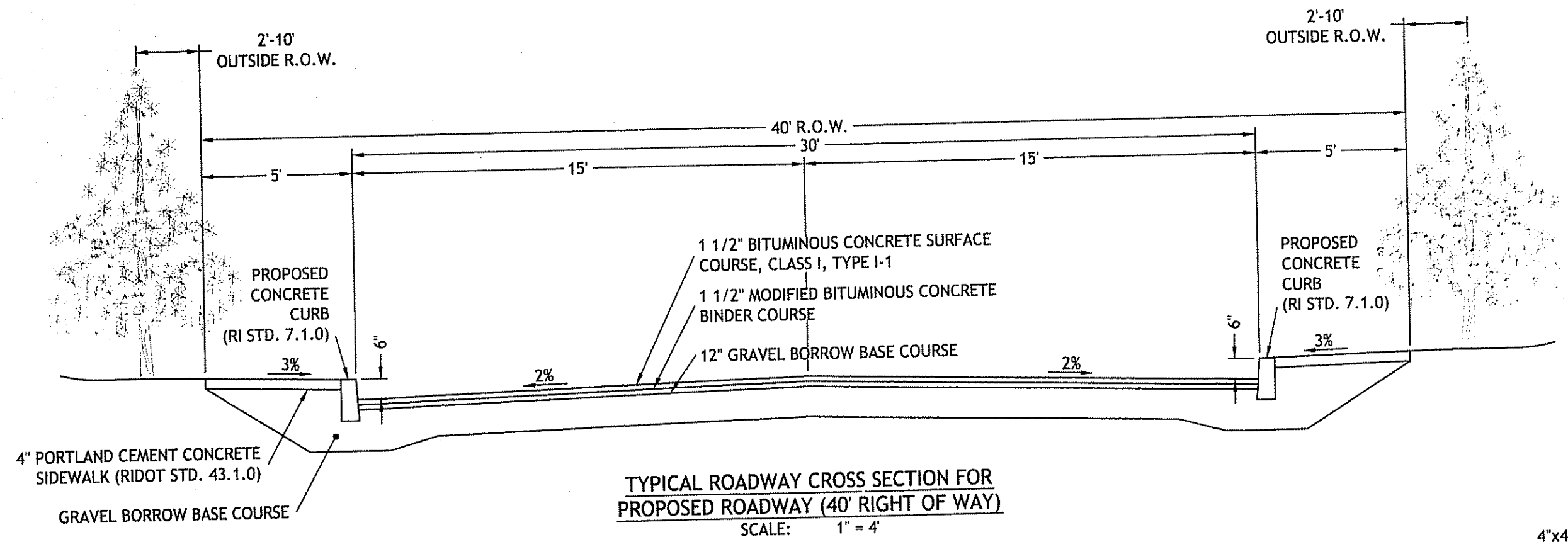
NO.	DATE	DESCRIPTION
1	11/07	TRC COMMENTS
2	05/08	RIDEM SUBMISSION
3	08/08	KCWA SUBMISSION & RIDEM COMMENTS
4	10/08	SEWER SUBMISSION
5	11/08	RIDEM COMMENTS II & SEWER COMMENTS

DESIGNED BY: JKB/GEC
DRAWN BY: GAH
CHECKED BY: DMD
DATE: OCTOBER 2007
PROJECT NO: 07-11b

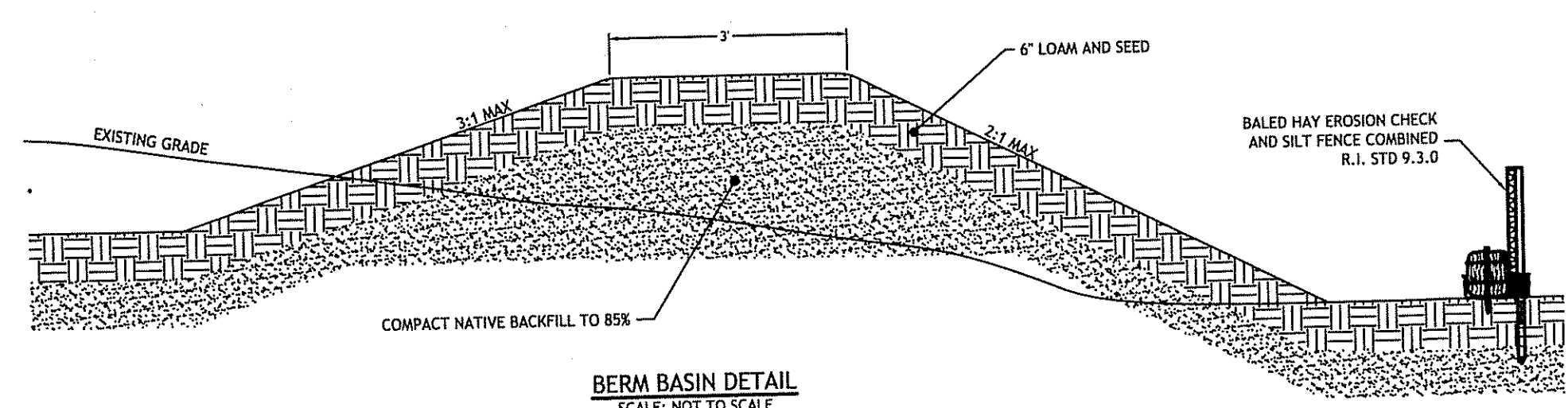
PRELIMINARY, NOT FOR CONSTRUCTION

DETAILS I

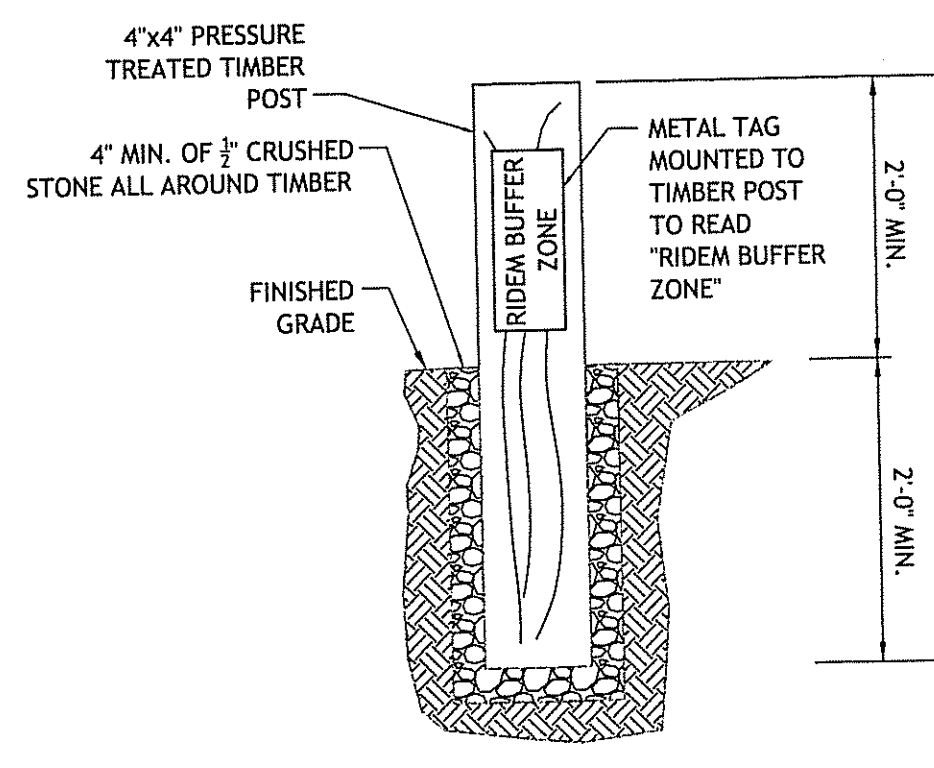
SHEET 9 OF 15



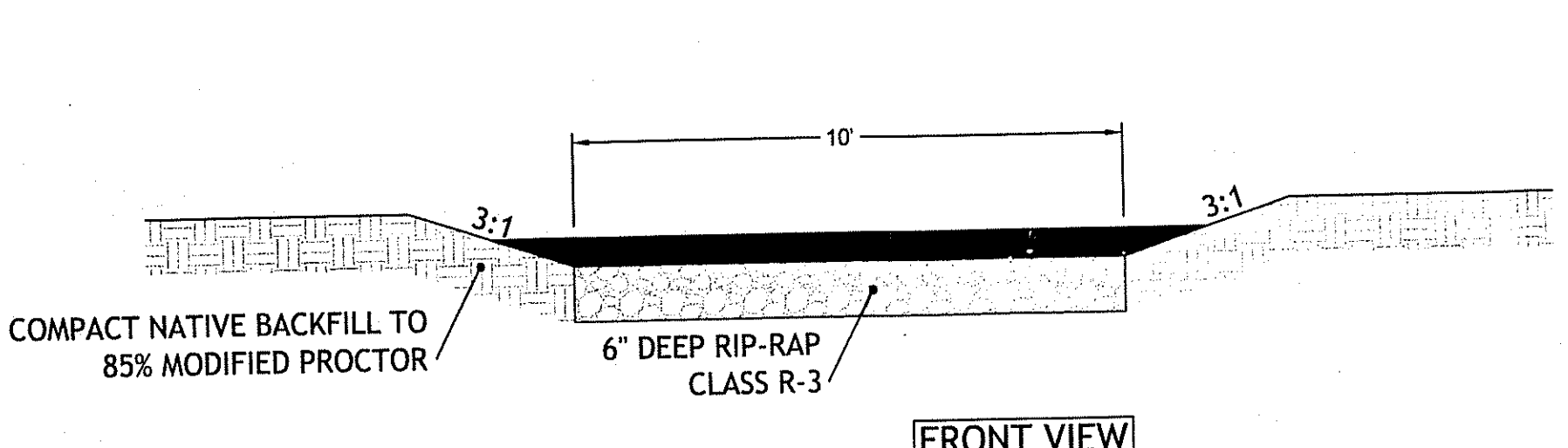
TYPICAL ROADWAY CROSS SECTION FOR PROPOSED ROADWAY (40' RIGHT OF WAY)
SCALE: 1" = 4'



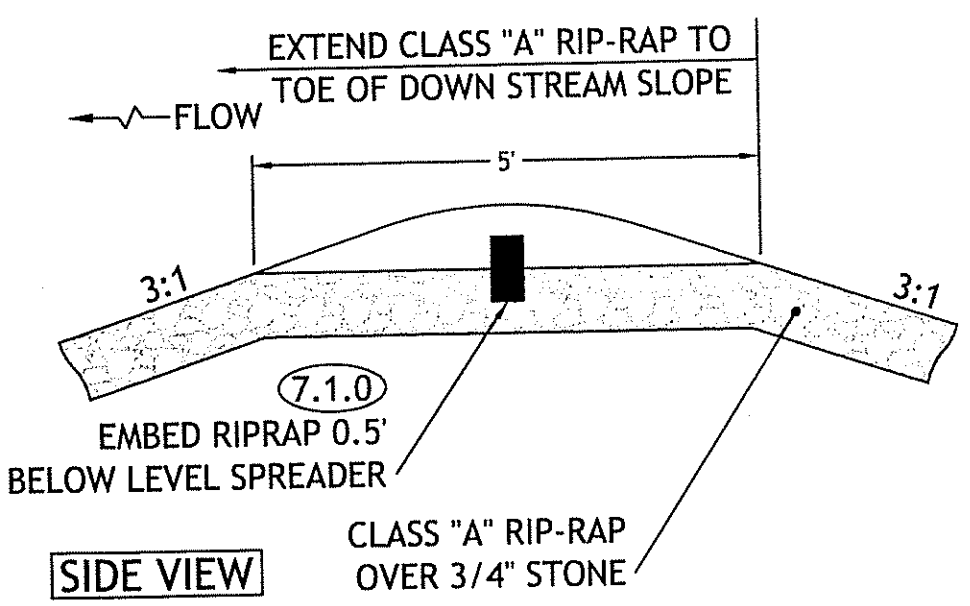
BERM BASIN DETAIL
SCALE: NOT TO SCALE



RIDEM BUFFER ZONE MARKER DETAIL
N.T.S.

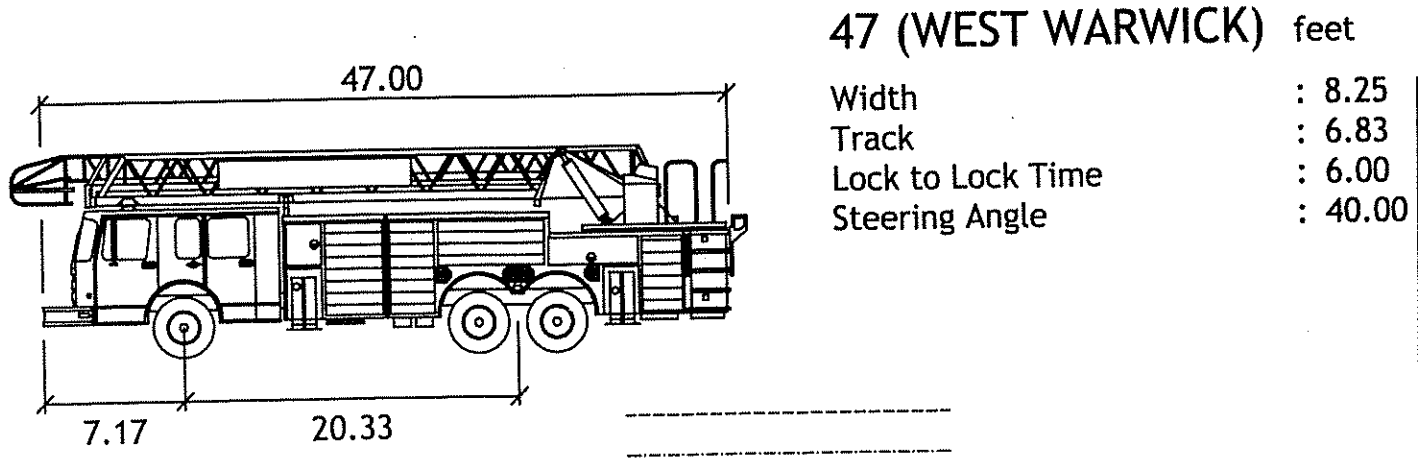


FRONT VIEW

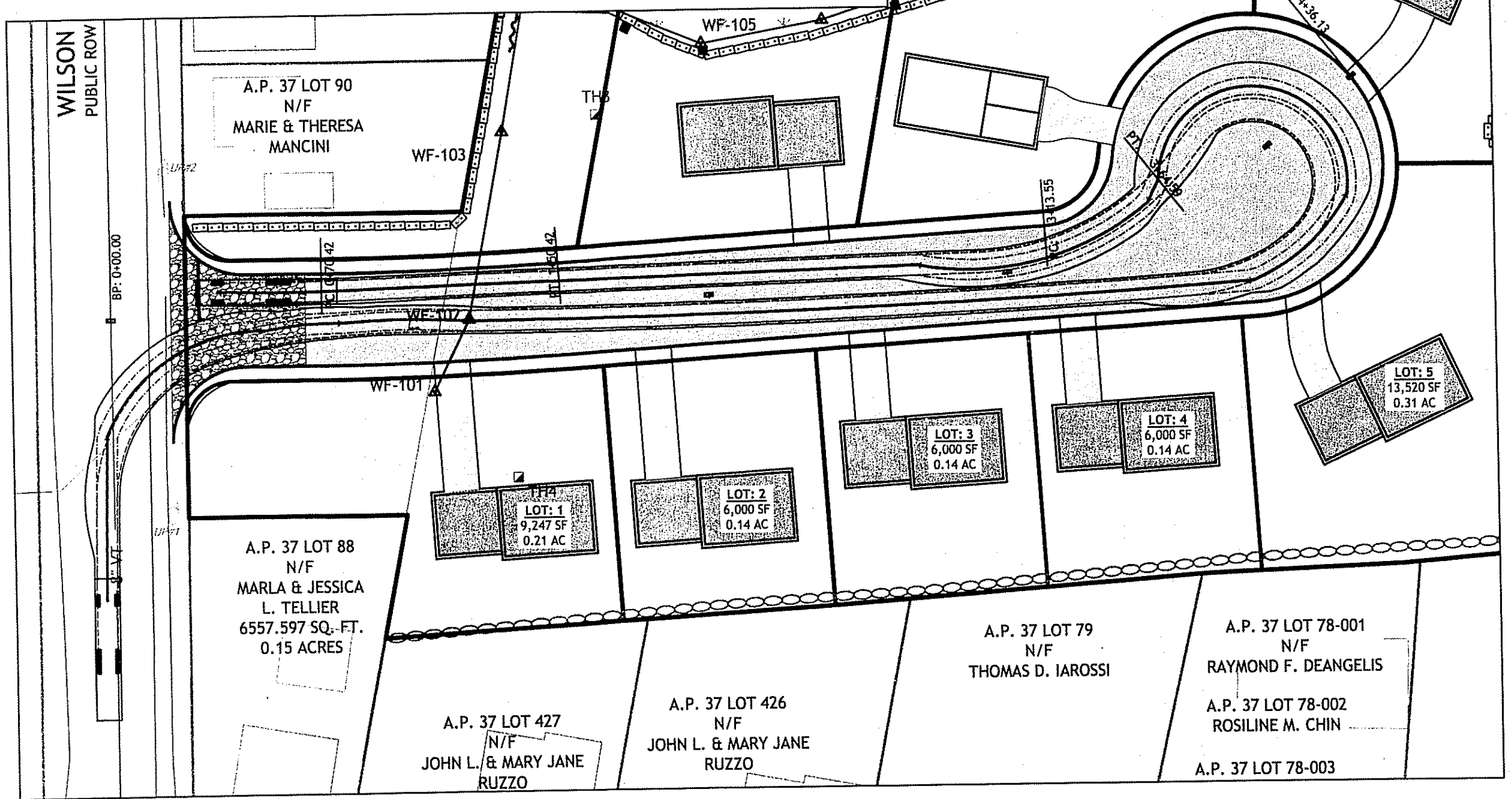


SIDE VIEW

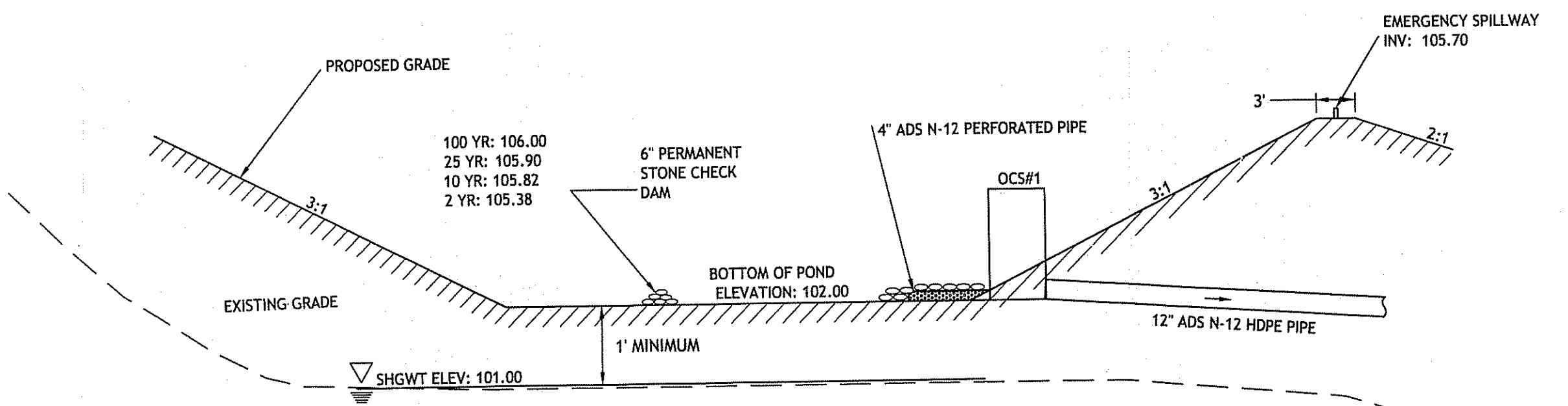
EMERGENCY SPILLWAY
NOT TO SCALE



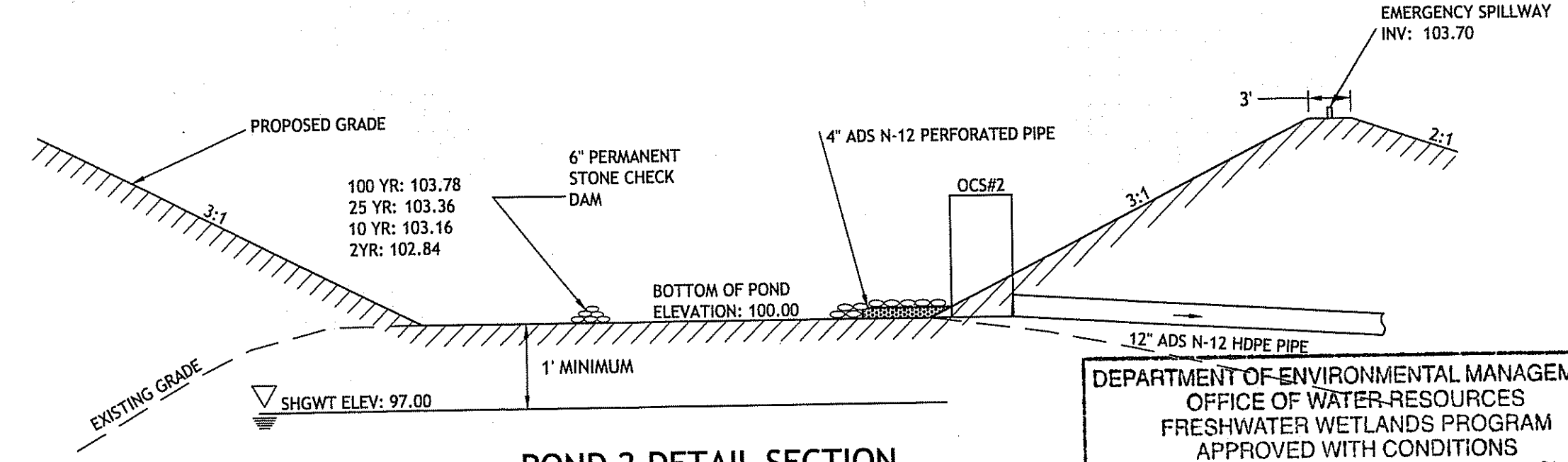
47 (WEST WARWICK) feet
Width : 8.25
Track : 6.83
Lock to Lock Time : 6.00
Steering Angle : 40.00



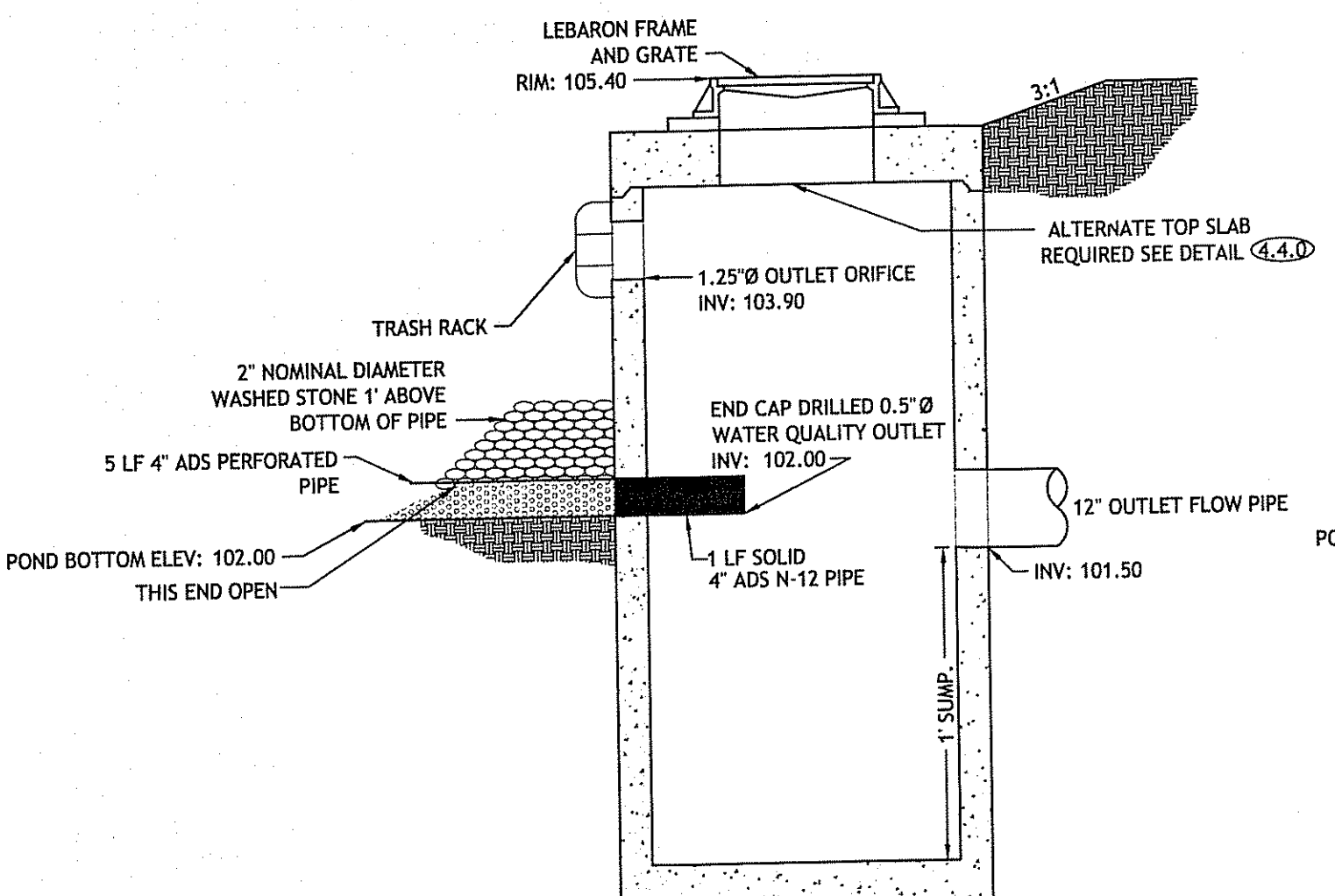
AUTOTURN DETAIL:
1" = 40'



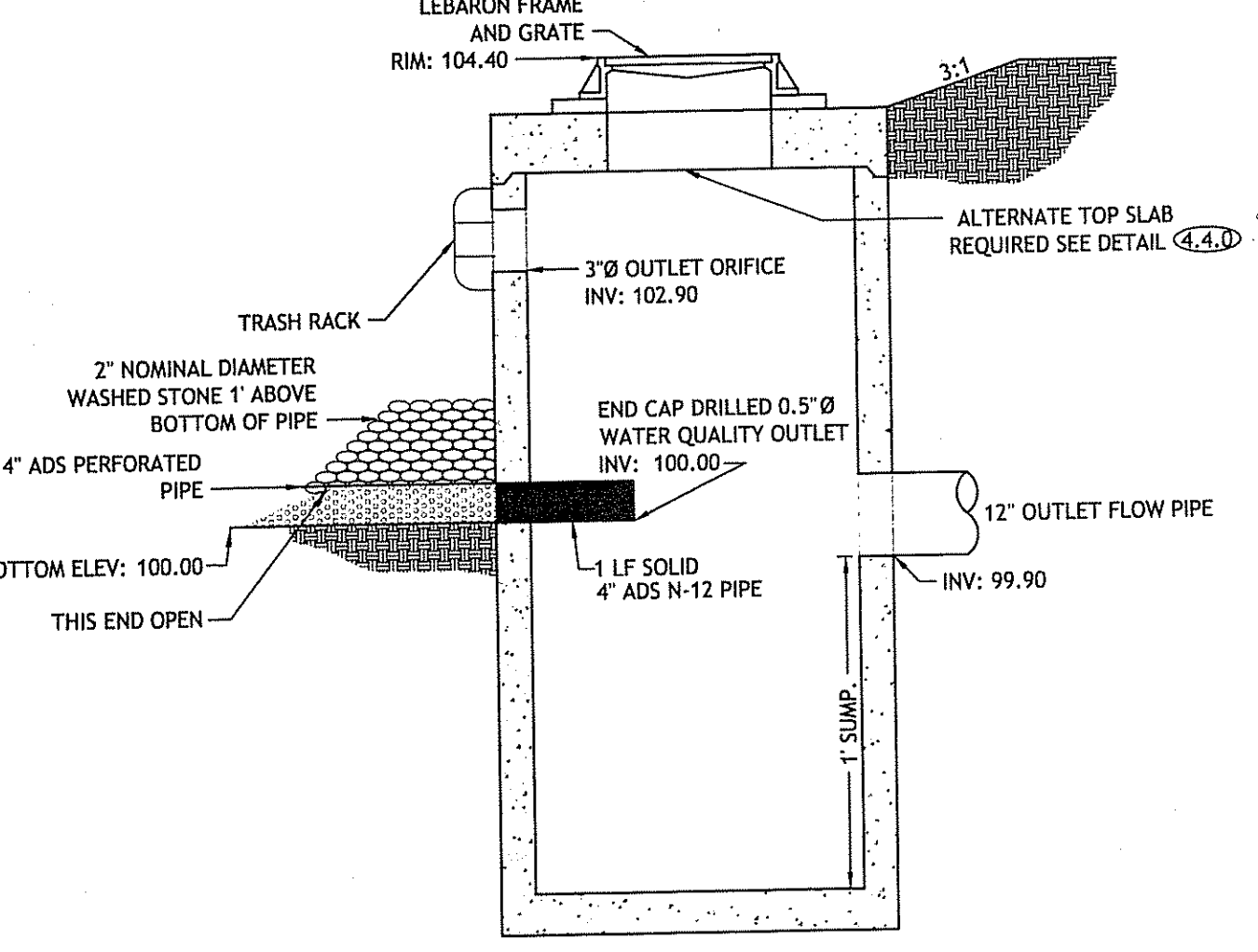
POND 1 DETAIL SECTION
NOT TO SCALE



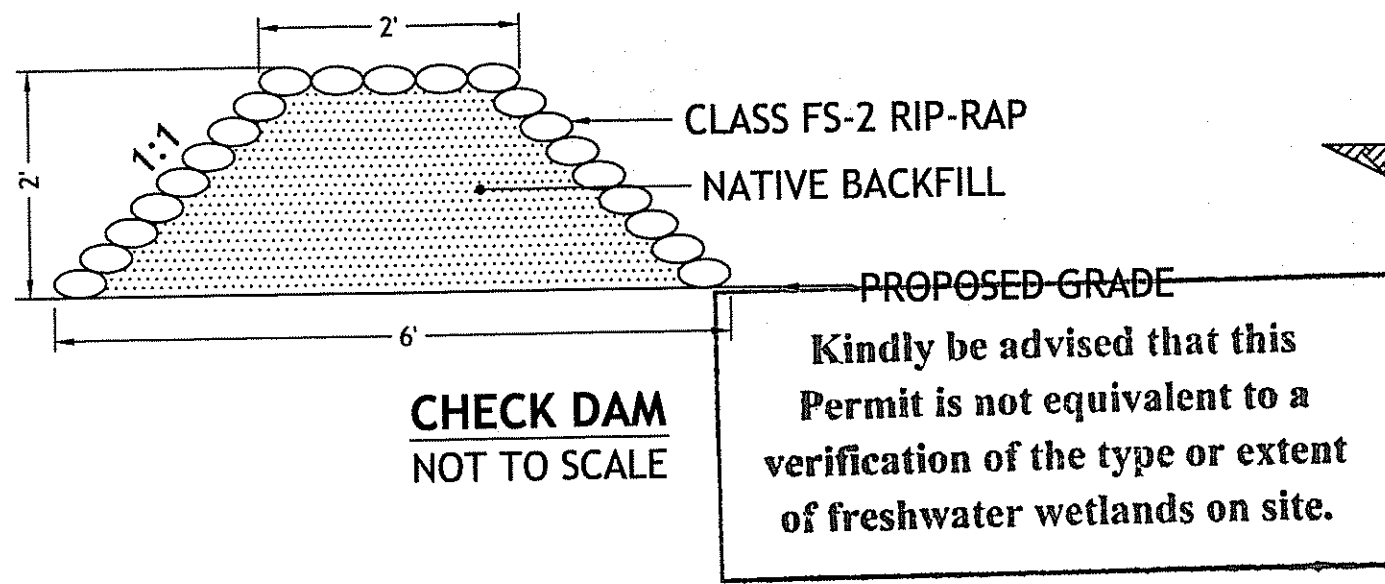
POND 2 DETAIL SECTION
NOT TO SCALE



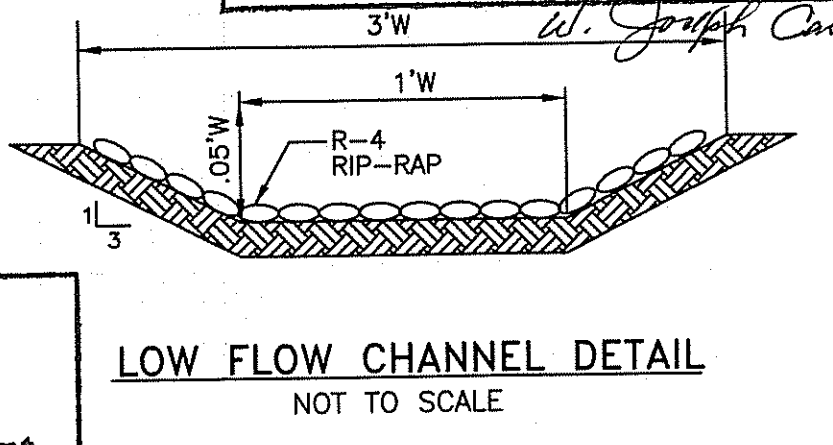
OUTLET CONTROL STRUCTURE (RI STD 4.4.0) - POND 1
NOT TO SCALE



OUTLET CONTROL STRUCTURE (RI STD 4.4.0) - POND 2
NOT TO SCALE



CHECK DAM
NOT TO SCALE



LOW FLOW CHANNEL DETAIL
NOT TO SCALE

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED DEC 22 2008 FILE # 08-0157
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
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NO.	DATE	DESCRIPTION
1	11/07	TRC COMMENTS
2	05/08	RIDEM SUBMISSION
3	08/08	KCWA SUBMISSION & RIDEM COMMENTS
4	10/08	SEWER SUBMISSIONS
5	11/08	RIDEM COMMENTS II & SEWER COMMENTS

DESIGNED BY: JKB/GEC
DRAWN BY: GAH
CHECKED BY: DMD
DATE: OCTOBER 2007
PROJECT NO: 07-11b

PRELIMINARY, NOT FOR CONSTRUCTION

DETAILS II

SHEET
10 OF 15

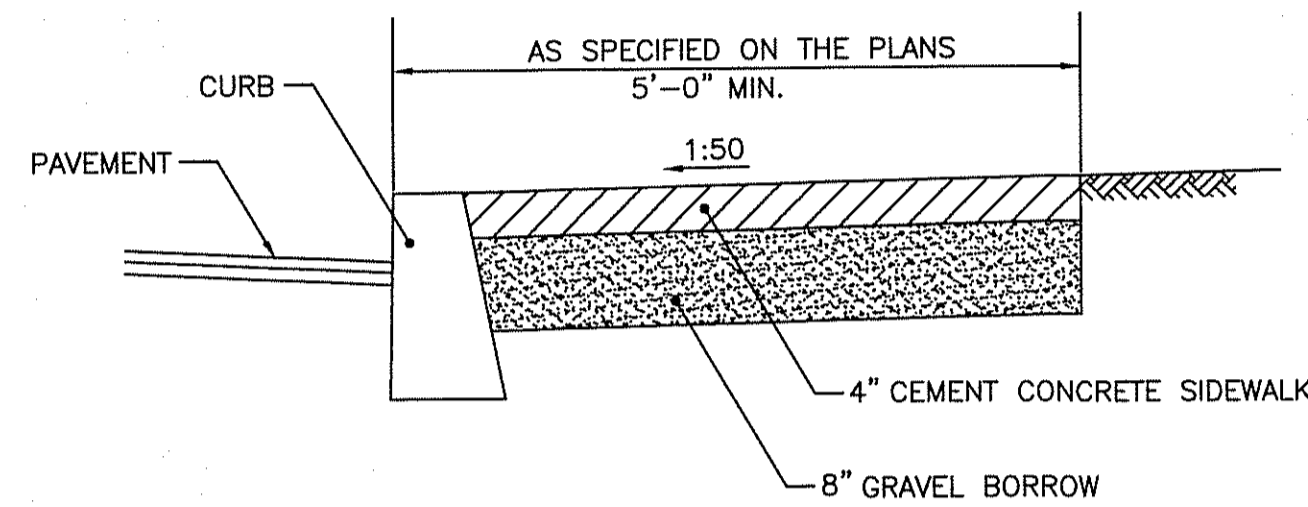
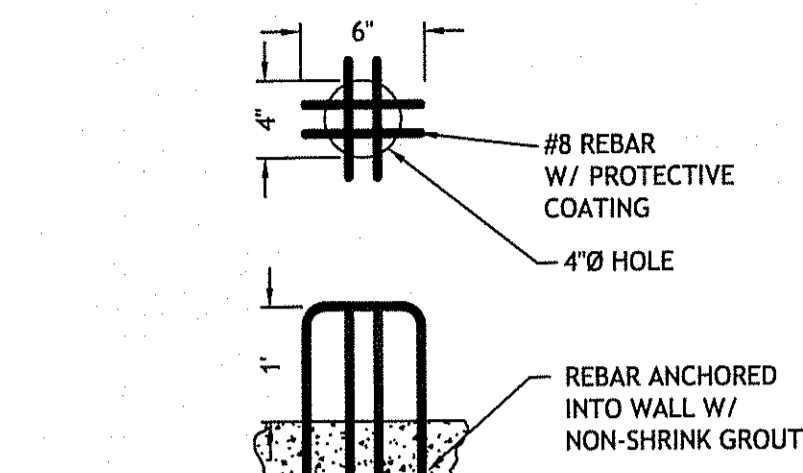
CDE
CASALI & D'AMICO ENGINEERING, INC.
CIVIL - SITE DEVELOPMENT - TRANSPORTATION - FLOODPLAIN
DRAINAGE - WETLANDS - ISDS - TRAFFIC - FLOODPLAIN
DESIGN
350 WEST WARWICK AVENUE, SUITE 200
WEST WARWICK, RHODE ISLAND 02891
(401) 944-1122 (401) 944-3113 fax www.cde-engineering.com

DAVID M. D'AMICO
No. 6745
REGISTERED PROFESSIONAL ENGINEER
CIVIL
11/6/08

BARBERS FARM SUBDIVISION
6 BARBERS COURT
WEST WARWICK, RHODE ISLAND
AP 37 LOTS 194 & 437

C:\07-11 Antonio Gianusso\07-11b 6 Barbers Court\PLANSET\GARRUSSO (plan set).dwg Nov. 05, 2008 1:40pm

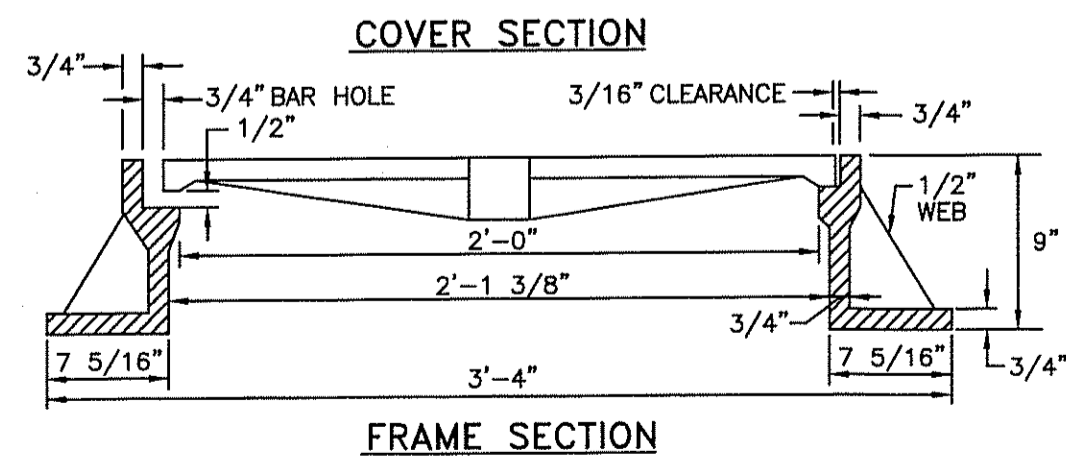
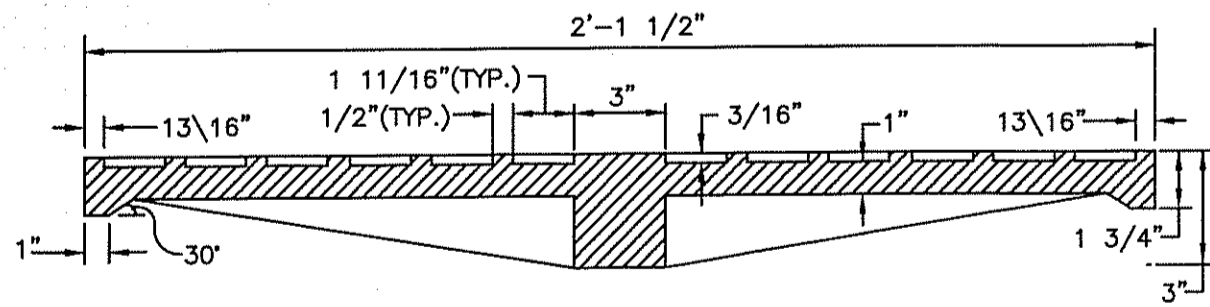
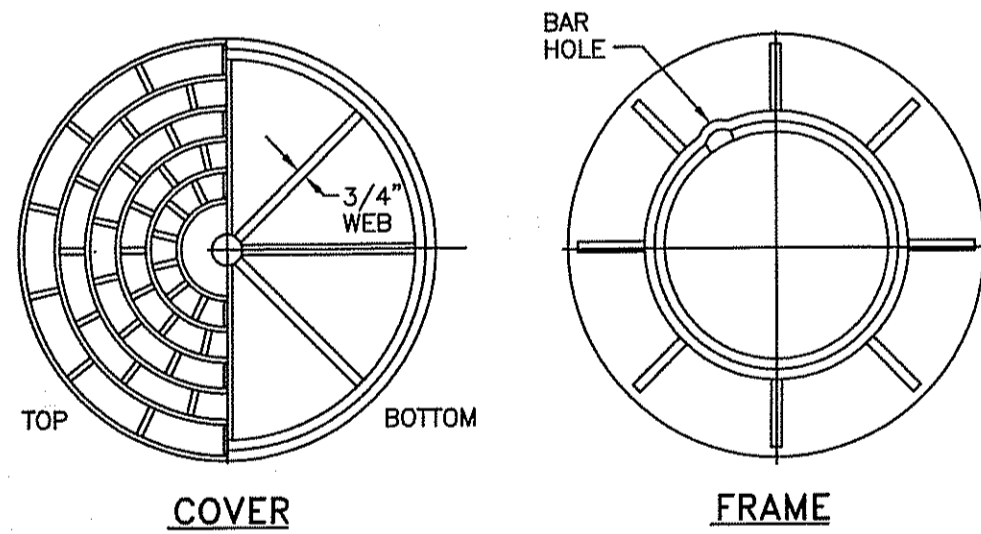
TRASH RACK DETAIL FOR POND 1
NOT TO SCALE



- NOTES**
1. SHALL BE IN ACCORDANCE WITH SECTION 904 OF THE R.I. STANDARD SPECIFICATIONS.
2. FOR CURB SETTING DETAIL REFERENCE STD. 7.6.0.

CEMENT CONCRETE SIDEWALK

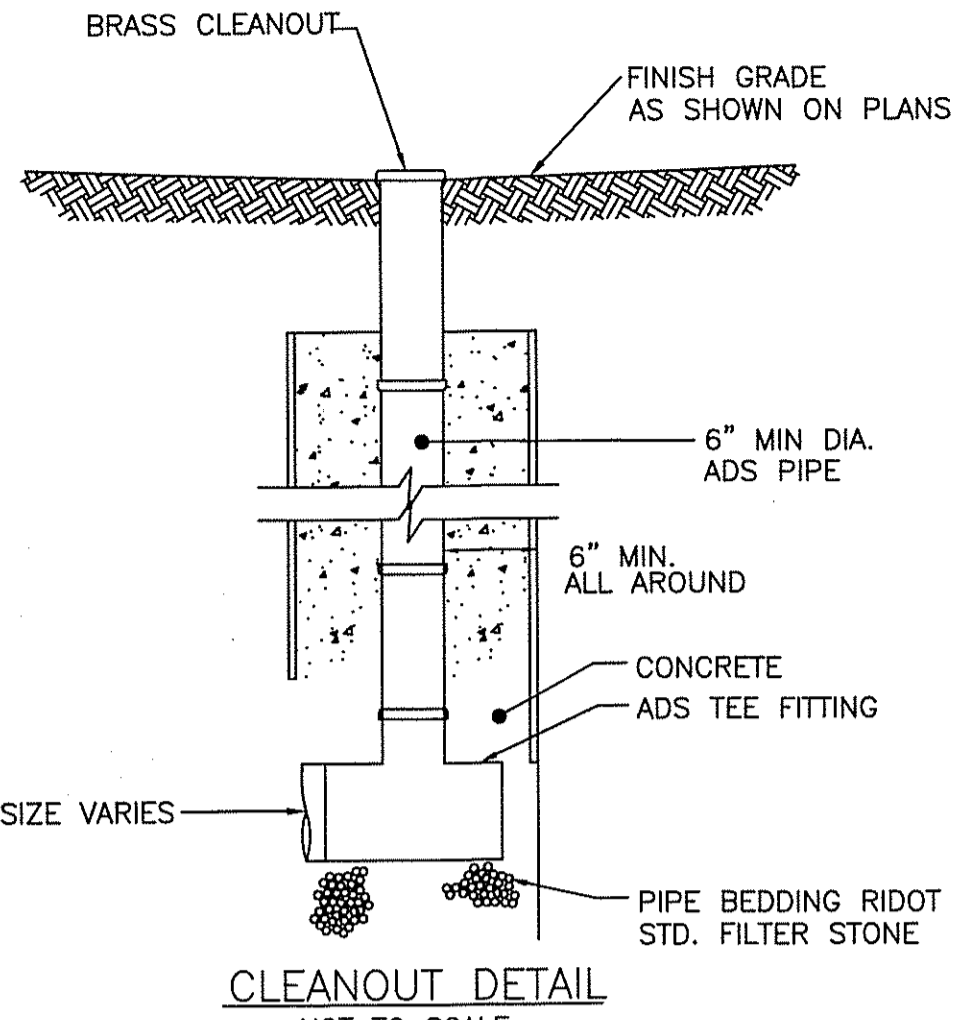
R.I. STANDARD 43.1.0



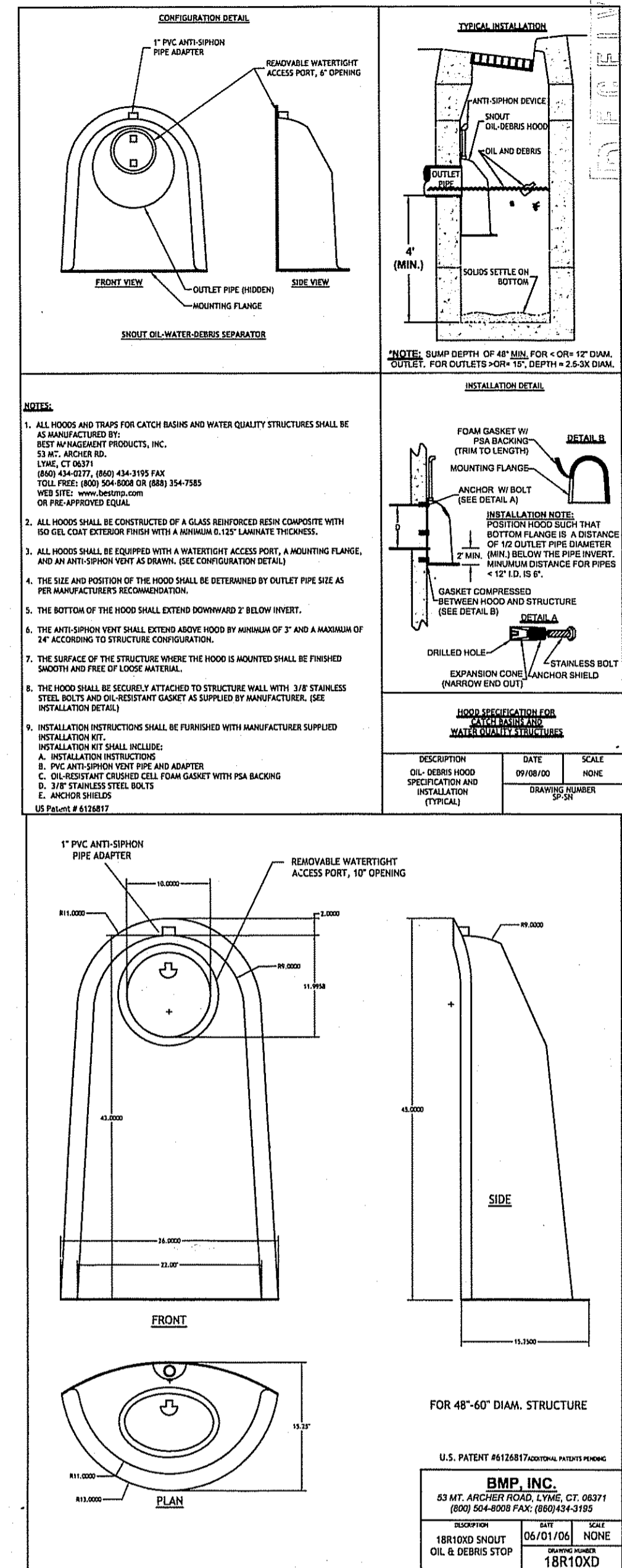
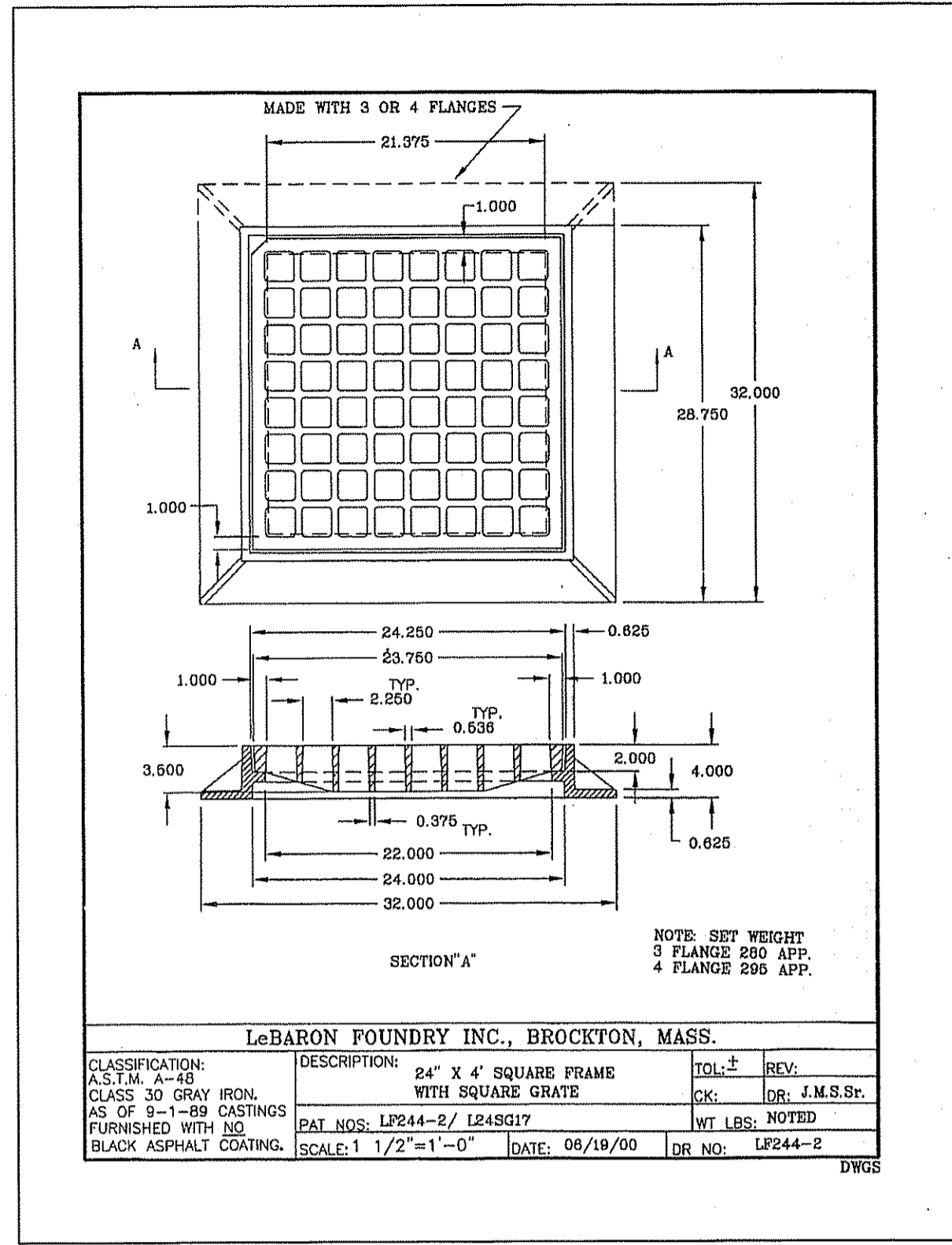
- NOTES**
1. FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
2. FRAME AND COVER SEATS MUST HAVE MACHINE FINISH.

HEAVY-DUTY ROUND FRAME AND COVER

R.I. STANDARD 6.2.1



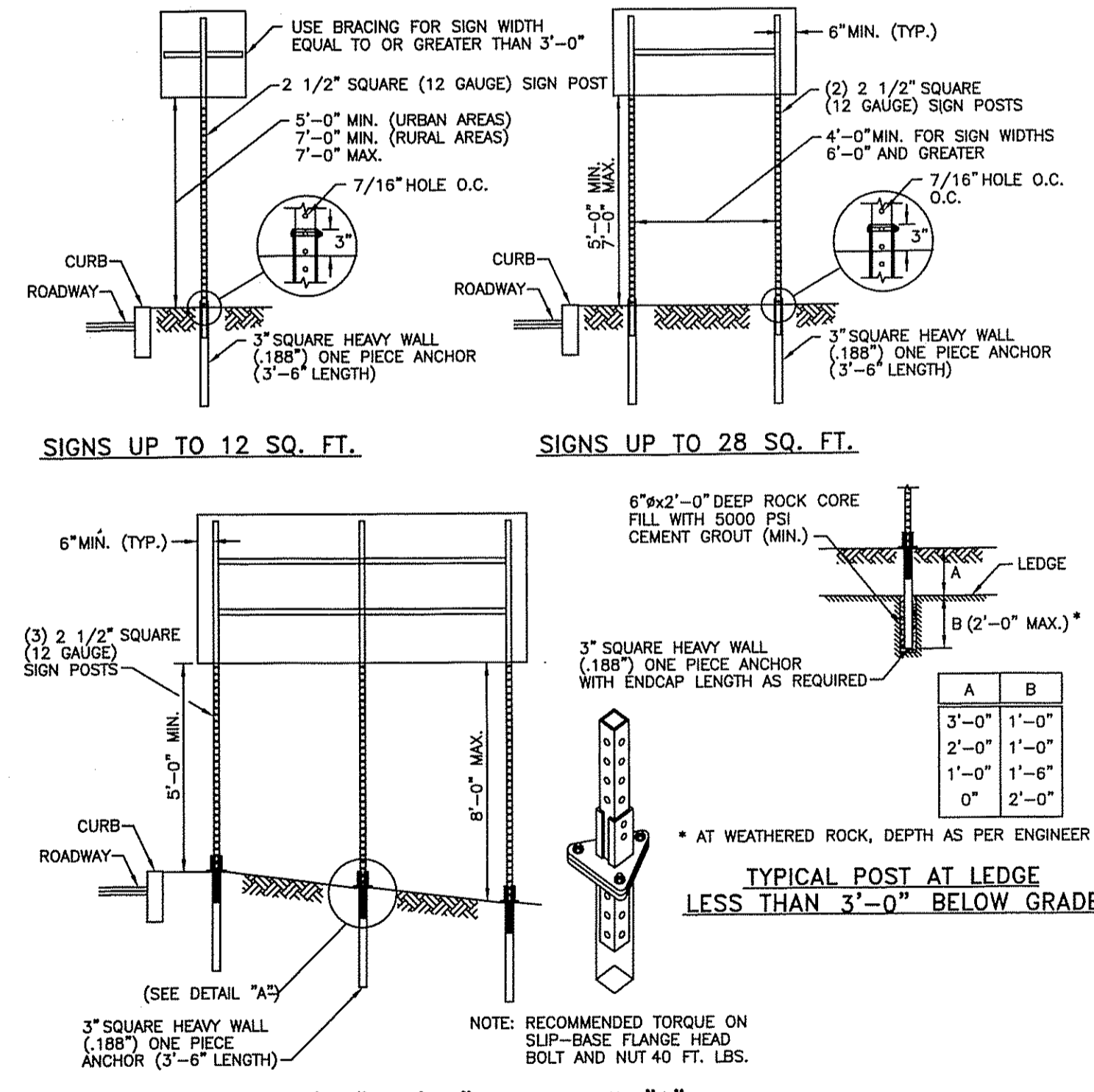
CLEANOUT DETAIL
NOT TO SCALE



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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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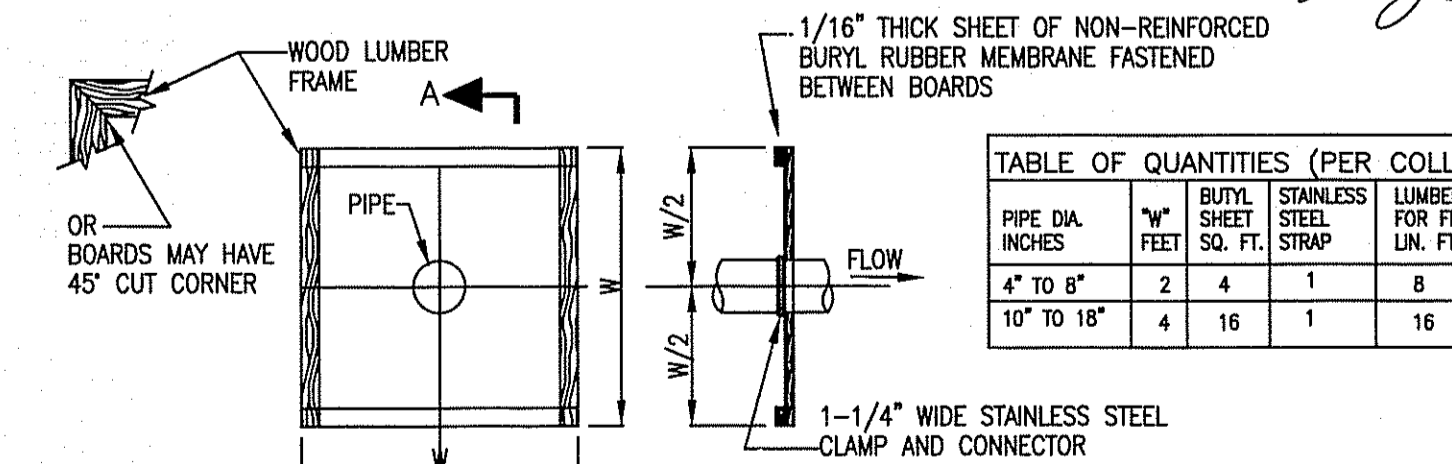
W. Joseph Casey



- NOTES**
1. SHALL BE IN ACCORDANCE WITH SECTION 1.15 OF THE R.I. STANDARD SPECIFICATIONS.
2. SIGN SUPPORTS HAVE BEEN DESIGNED IN ACCORDANCE WITH ASHTO SPECIFICATIONS FOR A 10-YEAR MEAN WIND RECURRENCE INTERVAL.
3. FOR INSTALLATION IN GROUND OR BITUMINOUS CONCRETE DRIVE SIGN POST ANCHOR TO REQUIRED DEPTH SO THAT THE HOLE WILL MATCH TO SIGN POST ABOVE GROUND FOR THE BOLT CONNECTION. INSERT SIGN POST AND BOLT IN PLACE.
4. FOR INSTALLATION IN CONCRETE SEE STD. 25.3.0 AND FOLLOW THE PROCEDURE IN NOTE 2.
5. FOR INSTALLATION IN LEDGE LESS THAN 3'-0" BELOW GRADE SEE DETAIL ABOVE.
6. EDGE OF SIGN SHALL BE 1'-5" (MIN.) FROM EDGE OF CURB IN URBAN AREAS AND 6'-0" (MIN.) FROM EDGE OF CURB IN RURAL AREAS.
7. INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
8. BREAKAWAY SIGN SUPPORTS SHALL BE FABRICATED FROM STEEL AND SHALL CONFORM TO THE BREAKAWAY DESIGN SHOWN ON THIS SHEET.
9. STEEL POSTS SHALL CONFORM TO ASTM-A361, Fy= 55 KSI. THE CROSS SECTION OF THE POST SHALL BE SQUARE TUBE FORMED OF 12 GAUGE (105 U.S.S. GAUGE) COLD-ROLLED CARBON STEEL SHEETS WHICH HAVE BEEN ZINC COATED (1.25 OZ.) CONFORMING TO ASTM-A252, CAREFULLY ROLLED TO SIZE AND WELDED DIRECTLY IN THE CORNER BY HIGH FREQUENCY RESISTANCE WELDING OR EQUAL AND EXTERNALLY SCARED TO AGREE WITH CORNER RADII. STANDARD CORNER RADIUS SHALL BE 3/32" PLUS OR MINUS 1/64".
10. ALL BOLTS SHALL CONFORM TO ASTM-A307, CLASS A.
11. ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS PER ASTM-A153.
12. FOR SIGNS GREATER THAN 32 SQ. FT., REFER TO STD. 30.1.0, 30.1.1, 30.2.0, 30.2.1, 30.3.0, 30.3.1, 30.4.0, 30.4.1, 30.4.2 AND 30.4.3.

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
SIGN POST SELECTION AND INSTALLATION DETAILS
SQUARE POST (SIGNS UP TO 8'-0" Wx4'-0" H)**

R.I. STANDARD 24.1.0



- NOTES**
1. COAT PIPE AT COLLAR LOCATION WITH BUTYL RUBBER PATH CEMENT SEALER OR OTHER BUTYL RUBBER SEALER. (DO NOT USE ASPHALT ROOF PATCH)
2. COMPLETED INSTALLATION MUST BE WATER TIGHT
3. FORCE BUTYL RUBBER SHEET OVER UPSTREAM END OF PIPE AND OVER BUTYL ROOF SEALER.
4. INSTALL A 1-1/4" WIDE STAINLESS STEEL STRAP CLAMP AROUND PIPE OVER BUTYL RUBBER SHEET AND TIGHTEN UNTIL SEALER IS FORCED OUT.
5. STAPLE BUTYL RUBBER SHEET TO LUMBER FRAME.
6. FOR PIPE DIAMETERS OF LESS THAN 6" CUT A HOLE (CENTERED) IN BUTYL RUBBER SHEET, APPROX. 1/2" DIA. AND FOR PIPE DIAMETERS 6" TO 15" CUT A HOLE 3" SMALLER THAN DIAMETER OF PIPE AND FORCE BUTYL RUBBER SHEET OVER UPSTREAM END OF PIPE AND OVER BUTYL ROOF SEALER.
7. 1/4" THICKNESS SHEET OF NON-REINFORCED BUTYL RUBBER MEMBRANE AS SUPPLIED BY WATERSAVER COMPANY INC., 5870 EAST 96TH AVE. COMMERCE CITY, COLO. 80022 OR EQUAL.

ANTI-SEEP COLLAR DETAIL

NOT TO SCALE

CDE
CASALI & D'AMICO ENGINEERING, INC.
CIVIL ENGINEERING
SITE DEVELOPMENT, TRANSPORTATION
DRAINAGE, WETLANDS, ISDS, TRAFFIC, FLOODPLAIN
300 PORT ROAD, WARWICK, RI 02886
(401) 944-1300 www.casaliandamico.com

DAVID M. D'AMICO
REGISTERED PROFESSIONAL ENGINEER
CIVIL
11/08

BARBERS FARM SUBDIVISION
6 BARBERS COURT
WEST WARWICK, RHODE ISLAND
AP 37 LOTS 194 & 437

REVISIONS:

NO.	DATE	DESCRIPTION
1	11/07	TRC COMMENTS
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3	08/08	KCWA SUBMISSION & RIDEM COMMENTS
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DESIGNED BY: JKB/GEC
DRAWN BY: GAH
CHECKED BY: DMD
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DETAILS III

SHEET 11 OF 15

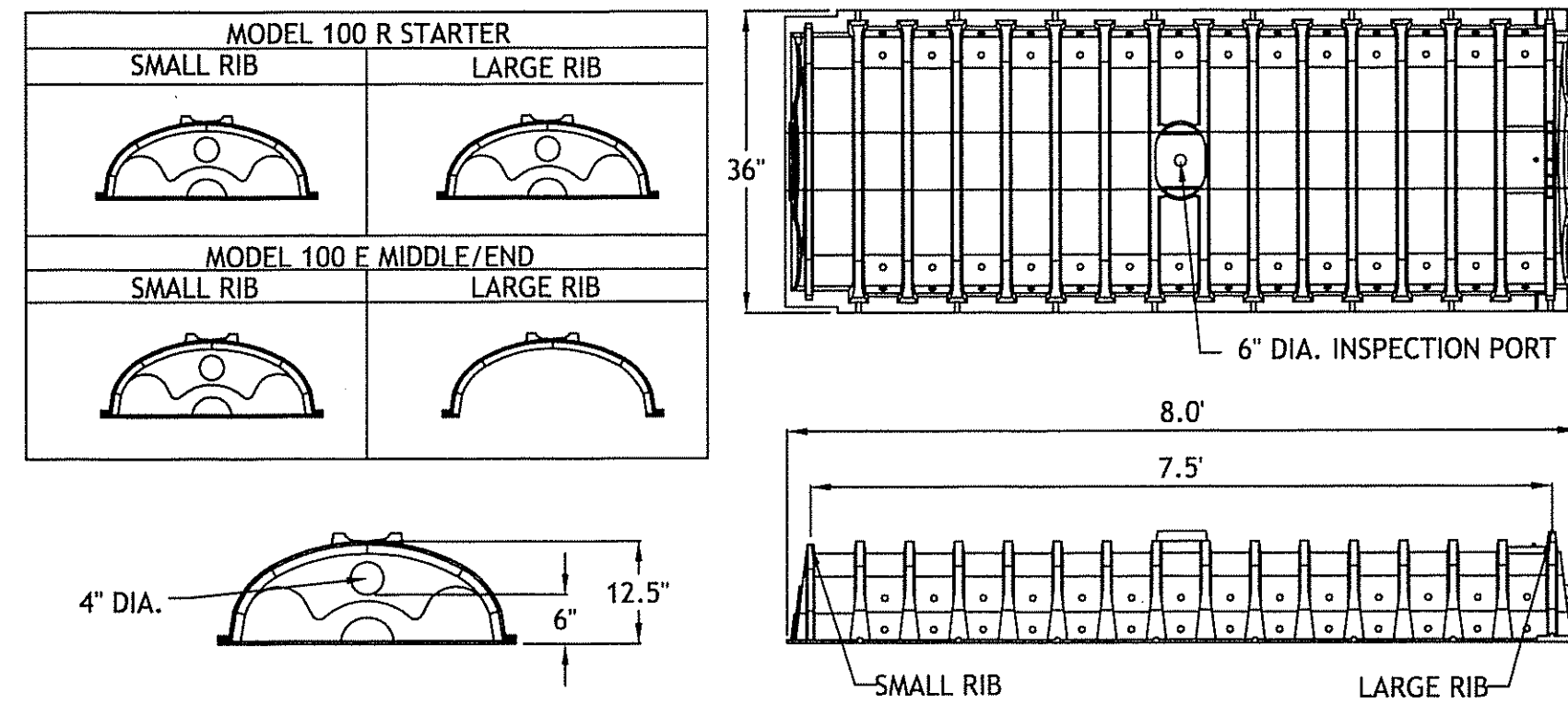
CULTEC CONTACTOR 100 CHAMBER PRODUCT SPECIFICATIONS

GENERAL

CULTEC CONTACTOR 100 CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER AND/OR ON-SITE WASTEWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION, AND CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF OR AS SEPTIC LEACHFIELDS.

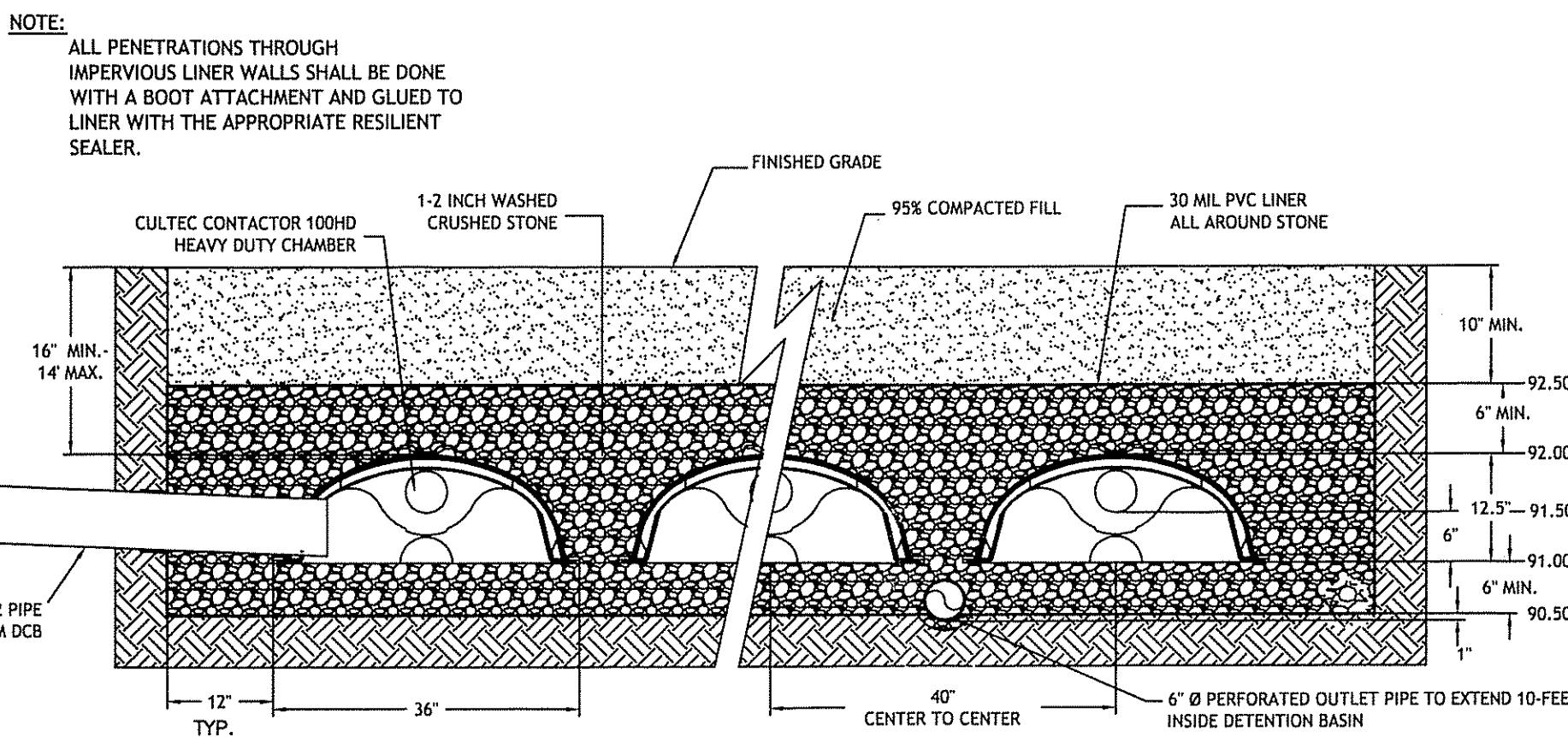
CHAMBER PROPERTIES

- THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT (203-775-4416).
- CONTACT CULTEC, INC. AT 203-775-4416 FOR SUBMITTAL PACKAGES AND TO PURCHASE PRODUCT.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC CONTACTOR 100 SHALL BE 12.5 INCHES TALL, 36 INCHES WIDE AND 8 FEET LONG. THE INSTALLED LENGTH OF INTERMEDIATE UNITS SHALL BE 7.4 FEET FOR STANDARD-DUTY AND 7.5 FEET FOR HEAVY-DUTY.
- THE CONTACTOR 100 COMES STANDARD WITH A 4.5 INCH INLET/OUTLET OPENING. THE OPENING MAY BE INCREASED TO 10 INCH MAXIMUM DIAMETER.
- THE CHAMBER WILL HAVE 16 CORRUGATIONS.
- THE NOMINAL STORAGE VOLUME OF THE CONTACTOR 100 STANDARD-DUTY WILL BE 1.961 CF/LF; THE CONTACTOR 100 HD WILL BE 1.866 CF/LF.
- THE CHAMBERS WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) IN AN ISO-9001:2000 CERTIFIED FACILITY.
- CHAMBERS ARE MANUFACTURED WITH AN OPEN BOTTOM, INTEGRALLY FORMED END WALLS AND PERFORATED SIDEWALLS.
- THE CHAMBERS MUST HAVE ACHIEVED A MINIMUM OF 5 YEARS INSTALLATION HISTORY WITHOUT STRUCTURAL DEFICIENCIES.
- THE CHAMBERS WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
- THE CHAMBER'S END WALL WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE INLET OR END PLATES CANNOT BE USED WITH THIS UNIT.
- THE CONTACTOR 100R STARTER CHAMBER MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL END WALLS, AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
- THE CONTACTOR 100E MIDDLE/END CHAMBER MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL END WALL, AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
- ALL CHAMBERS WILL BE ARCHED IN SHAPE. THE HEAVY-DUTY VERSION WILL HAVE FIFTY-SIX 3/4 INCH ROUND DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE INFILTRATION/EXFILTRATION; THE STANDARD-DUTY VERSION WILL HAVE THIRTY 3/4 INCH ROUND DISCHARGE HOLES.
- CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
- CONTACTOR 100HD HEAVY-DUTY CHAMBERS ARE DESIGNED TO WITHSTAND AASHTO H-20 LOAD RATING (32,000 LBS./AXLE) WHEN INSTALLED ACCORDING TO CULTEC'S MOST CURRENT INSTALLATION INSTRUCTIONS. CONTACTOR HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
- CONTACTOR 100 STANDARD-DUTY CHAMBERS ARE DESIGNED TO WITHSTAND AASHTO H-10 LOAD RATING (16,000 LBS./AXLE) WHEN INSTALLED ACCORDING TO CULTEC'S MOST CURRENT INSTALLATION INSTRUCTIONS.
- POLYETHYLENE CHAMBERS MUST HAVE THE ABILITY TO ACCEPT AND CARRY PIPE THROUGH ITS INTEGRALLY FORMED VERTICAL SUPPORT WALL WITHOUT THE USE OF SEPARATE PIPE HANGERS.
- UNITS WILL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
- THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
- REPEATING SUPPORT PANELS AND END WALLS OF THE ELONGATED CHAMBER SHALL BE SPACED EVERY 7.4 - 7.5 FEET, DEPENDING ON STANDARD OR HEAVY-DUTY MODEL.



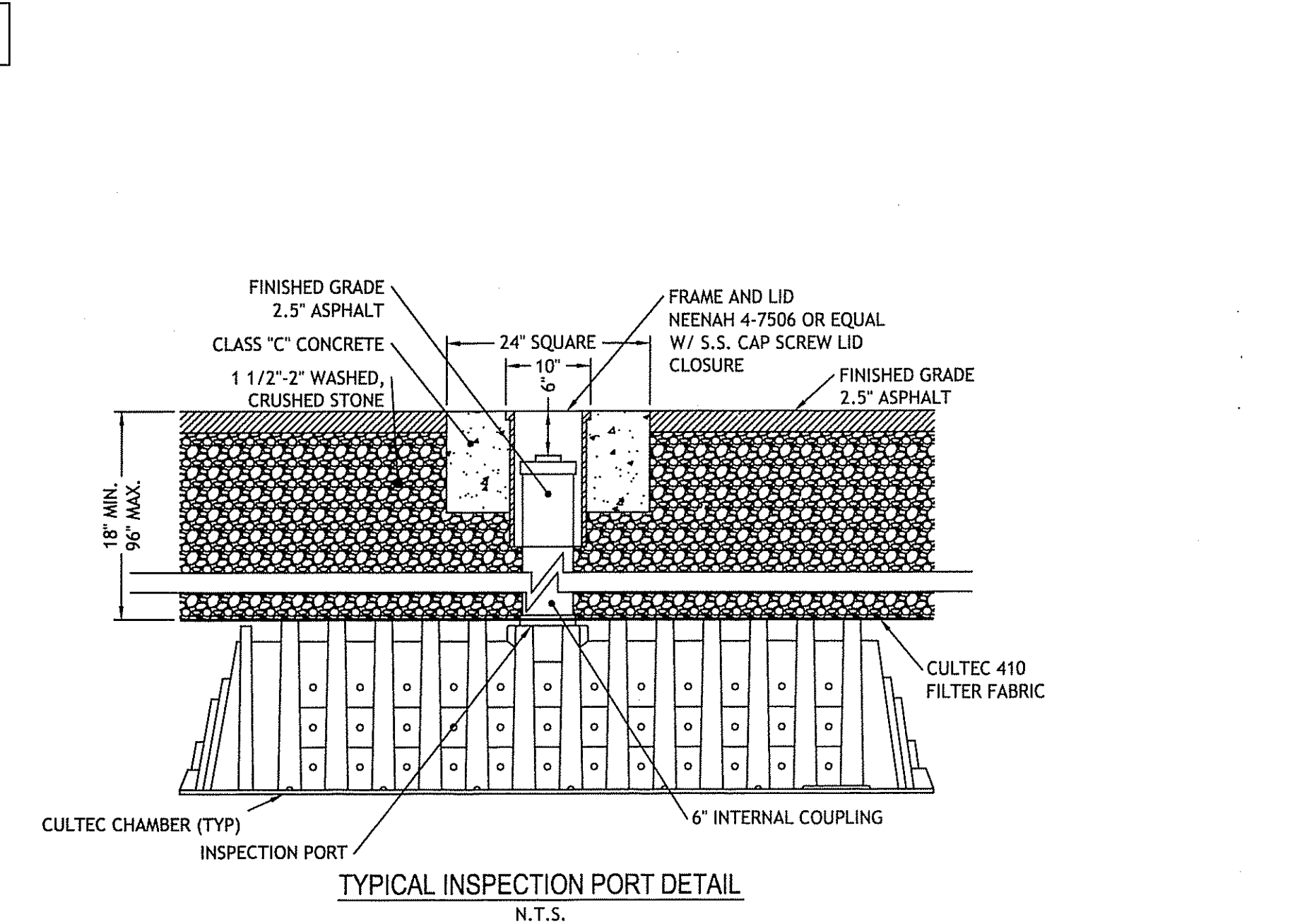
**1.87 CUBIC FEET OF STORAGE PER LINEAL FOOT
13.995 CUBIC FEET OF STORAGE PER CHAMBER INSTALLED LENGTH**

CULTEC CONTACTOR 100 (R-MODEL) SECTION VIEW

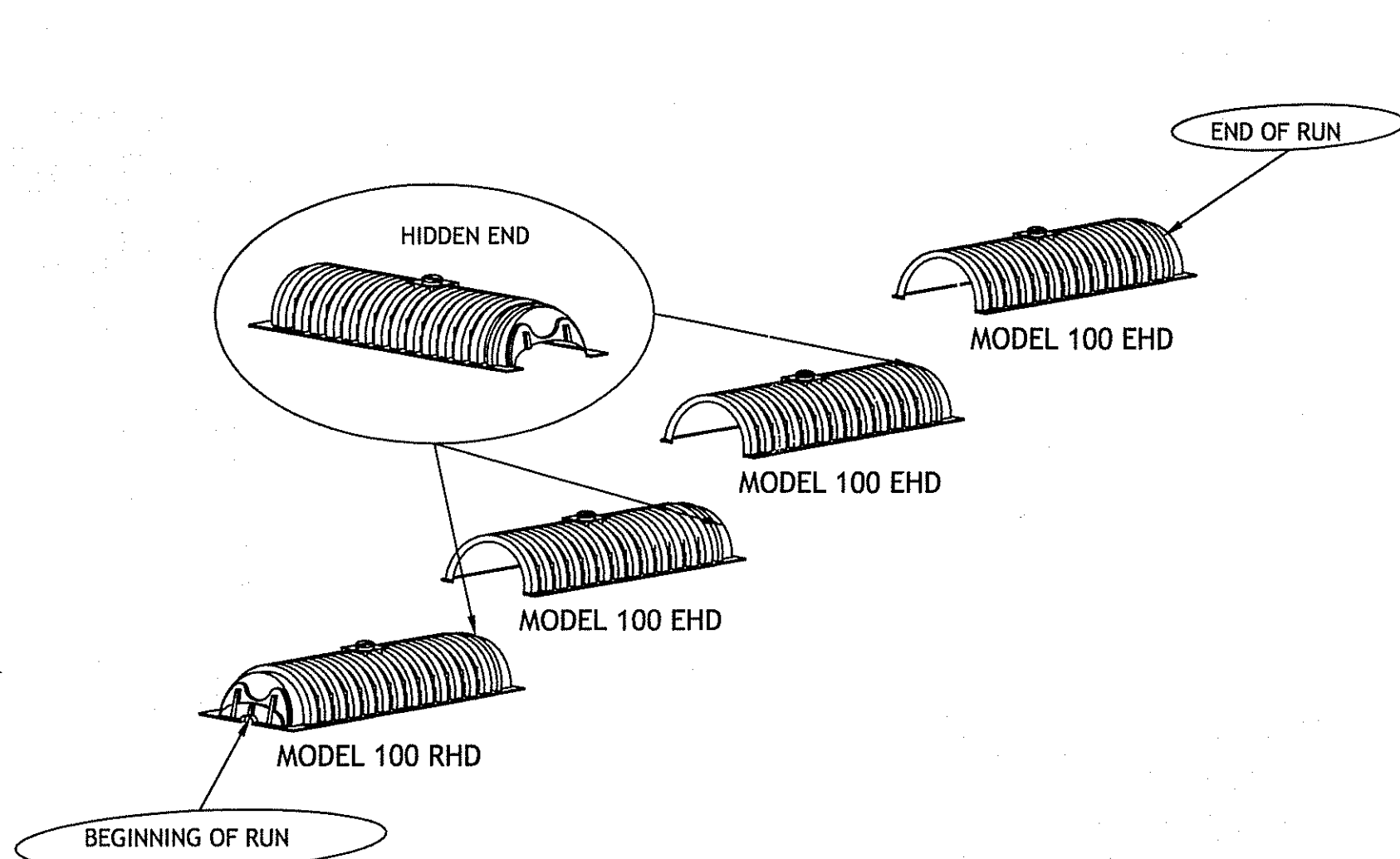


**3.84 CUBIC FEET OF STORAGE PER LINEAL FOOT
INSTALLED ACCORDING TO DESIGN UNIT**

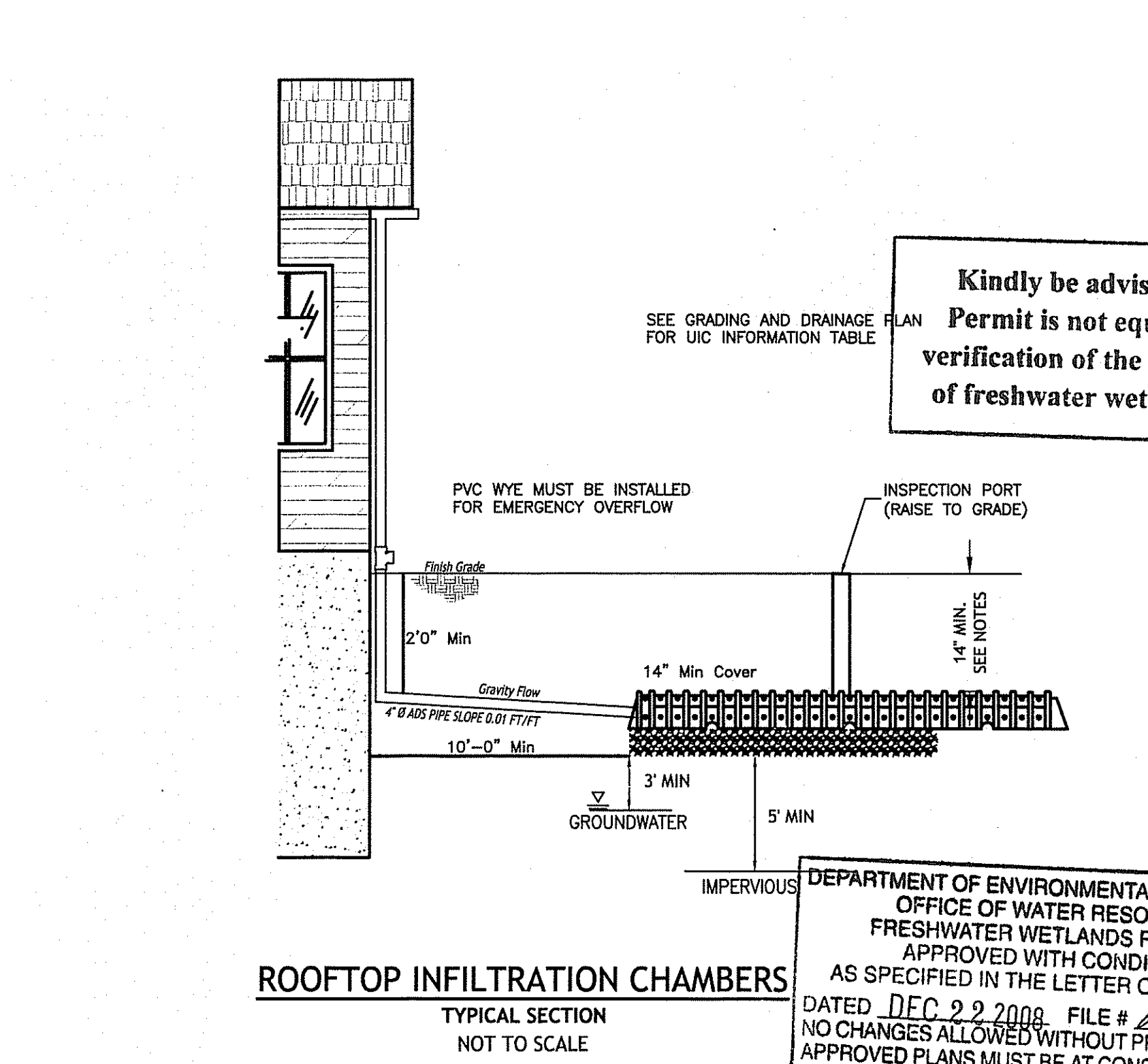
CULTEC CONTACTOR 100 UNPVD-TRAFFIC APPLICATION TYPICAL CROSS SECTION



CULTEC CONTACTOR 100 DETAIL INFORMATION



CULTEC CONTACTOR 100 DETAIL INFORMATION

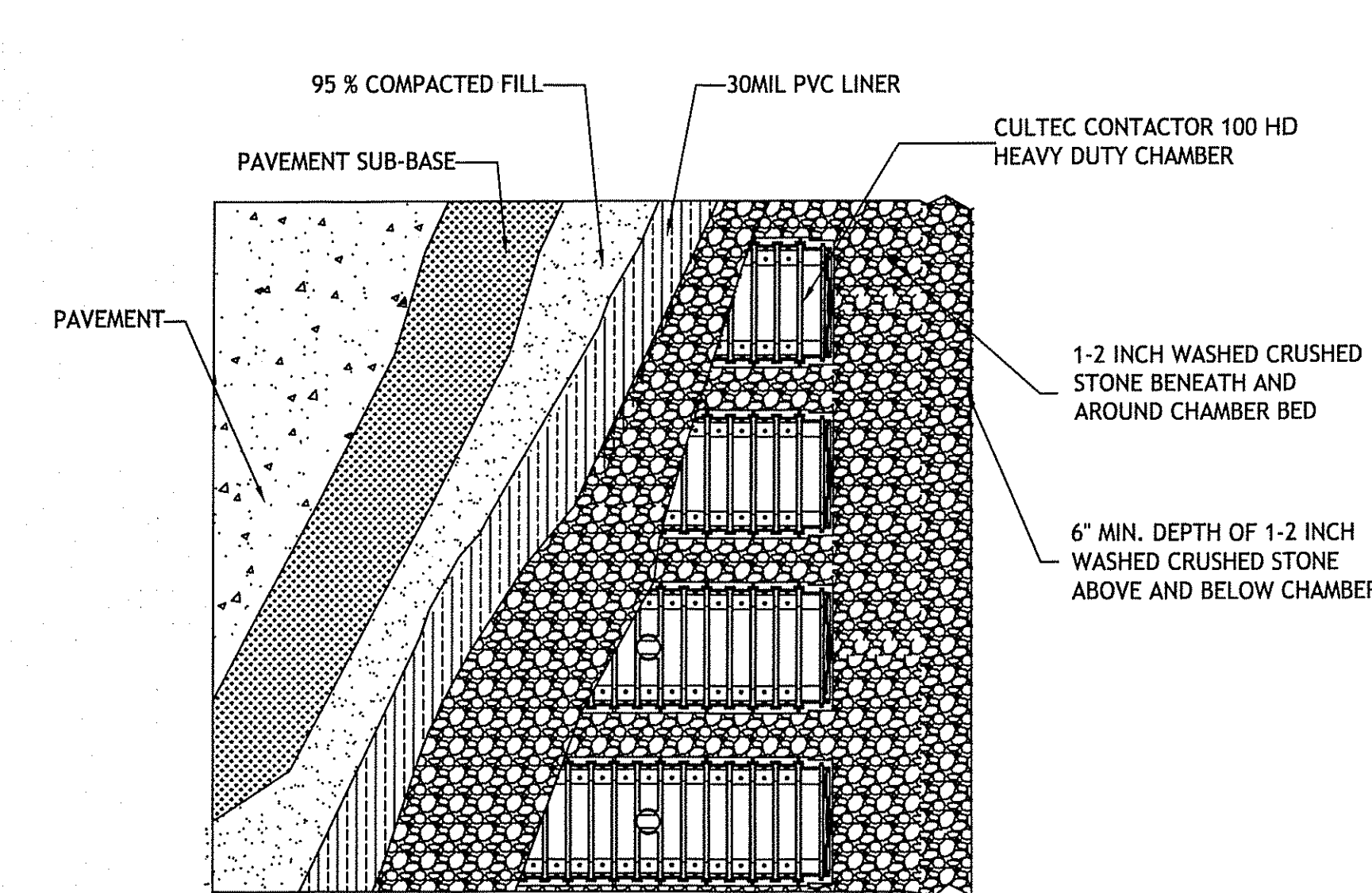


ROOFTOP INFILTRATION CHAMBERS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 22 2008 FILE # 28-2157
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Casey

CULTEC CONTACTOR 100 NOTES INFORMATION



CULTEC CONTACTOR 100 PLAN VIEW DETAIL

NOV - 6 2008
OFFICE OF WATER RESOURCES
CDFE
CASALI & DIAMICO ENGINEERING, INC.
CIVIL - SITE DEVELOPMENT - TRANSPORTATION
DRAINAGE - WETLANDS - ISDS - TRAFFIC - FLOODPLAIN
300 POST ROAD, WARWICK, RI 02886
(401) 944-1300 (401) 944-1310 fax www.casaliandamico.com

DAVID A. DIAMICO
No. 6745
REGISTERED PROFESSIONAL ENGINEER
CIVIL
11/6/08

BARBERS FARM SUBDIVISION
6 BARBERS COURT
WEST WARWICK, RHODE ISLAND
AP 37 LOTS 194 & 437

REVISIONS:

NO.	DATE	DESCRIPTION
1	11/07	TRC COMMENTS
2	05/08	RIDEM SUBMISSION
3	08/08	KCWA SUBMISSION & RIDEM COMMENTS
4	10/08	SEWER SUBMISSION
5	11/08	RIDEM COMMENTS II & SEWER COMMENTS

DESIGNED BY: JKB/GEC
DRAWN BY: GAH
CHECKED BY: DMD
DATE: OCTOBER 2007
PROJECT NO: 07-11b

PRELIMINARY, NOT FOR CONSTRUCTION

DETAILS IV DRAINAGE

SHEET 12 OF 15

RECEIVED
10/7 - 6 2008

CDE
CASALI & DIAMICO ENGINEERING, INC.
CIVIL, SITE DEVELOPMENT, TRANSPORTATION
DRAINAGE, WETLANDS, ISDS, TRAFFIC, FLOODPLAIN
300 POST ROAD, WARWICK, RI 02886
(401) 841-0300 (401) 841-0310 fax www.casali-damico.com

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CIVIL
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6 BARBERS COURT
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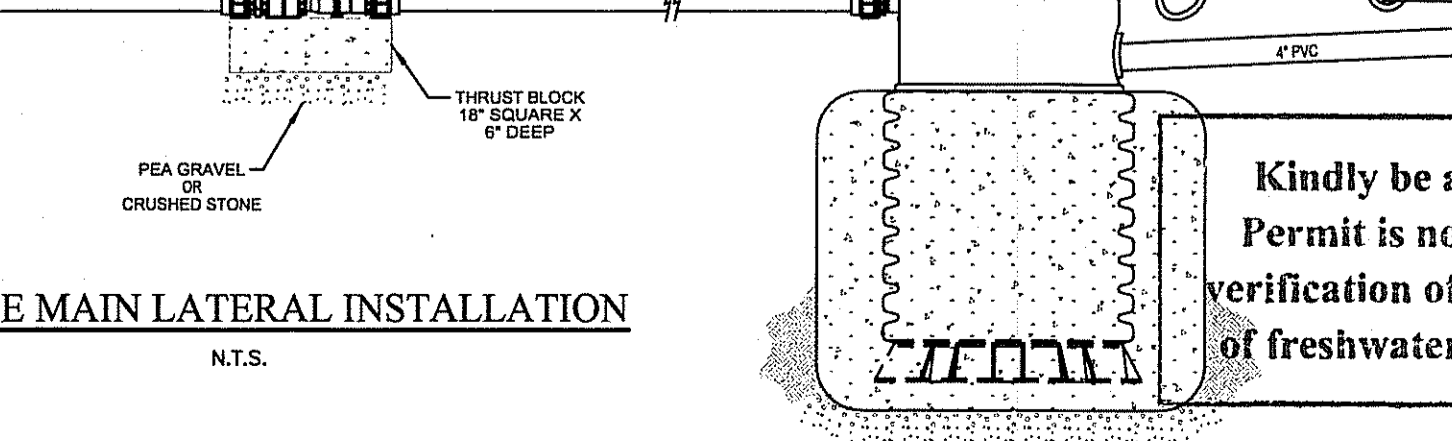
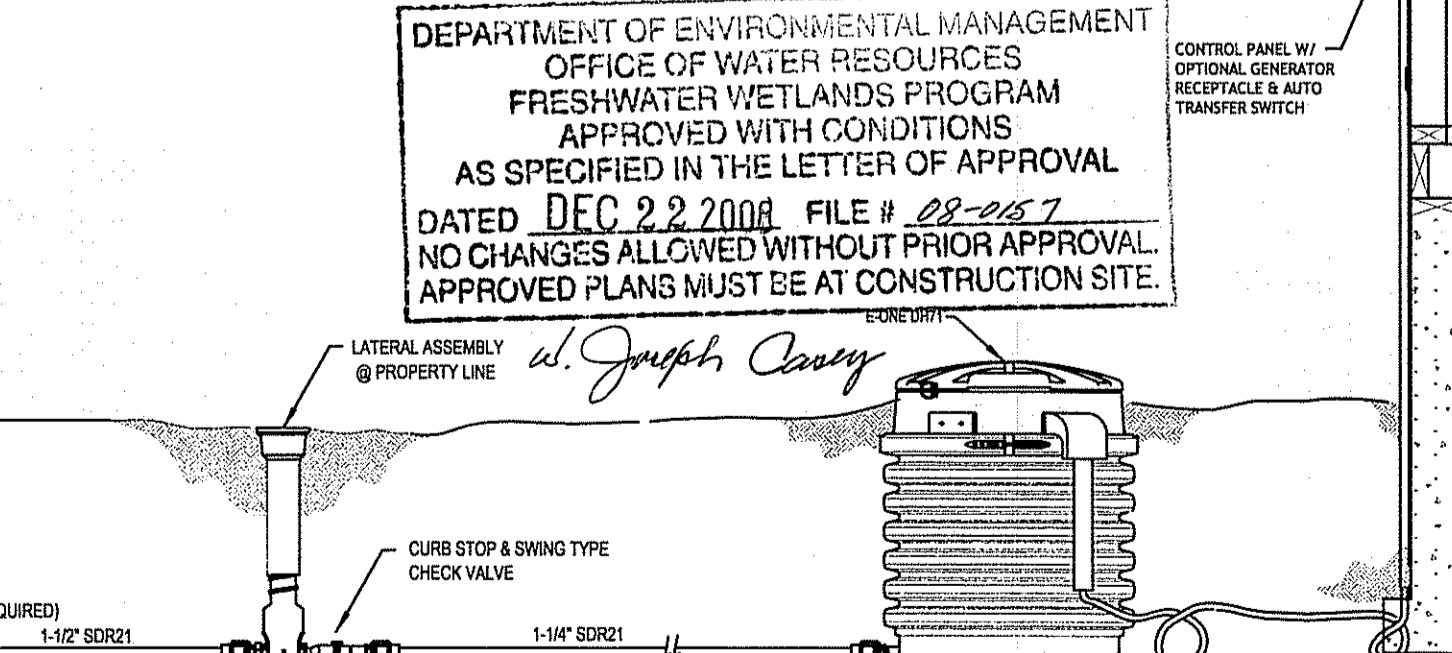
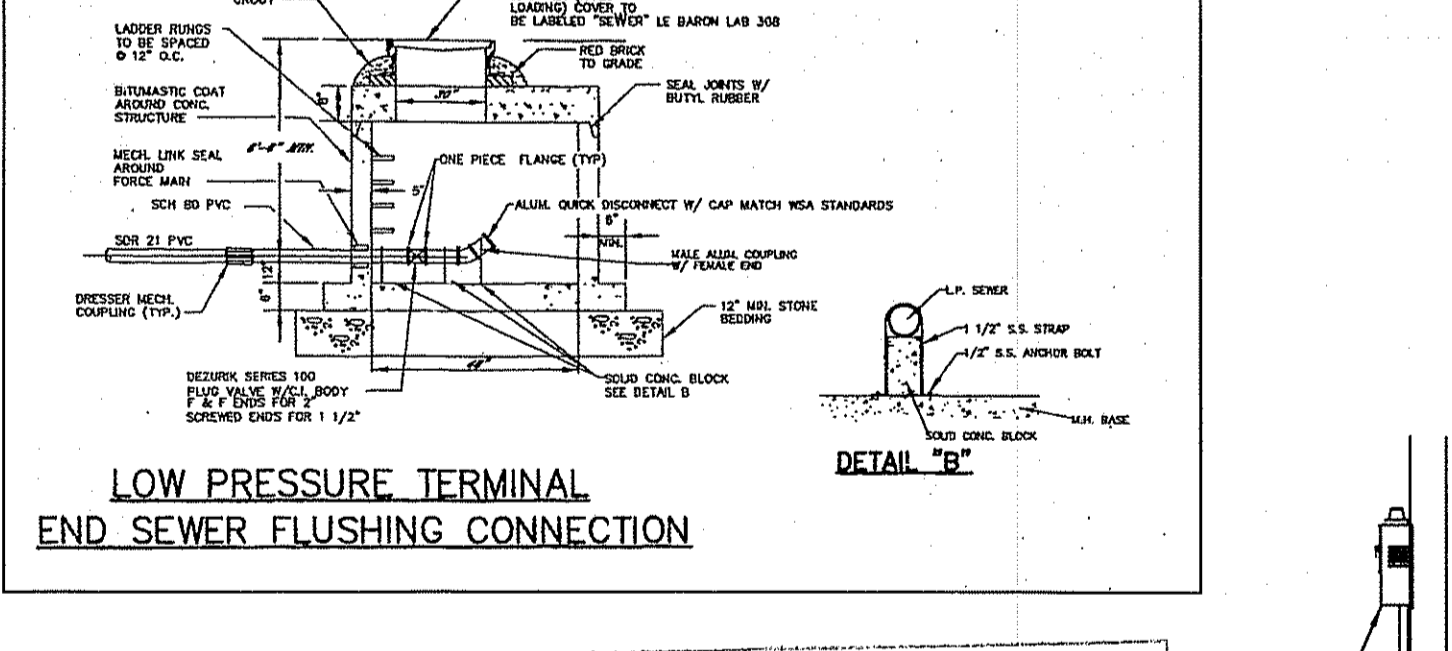
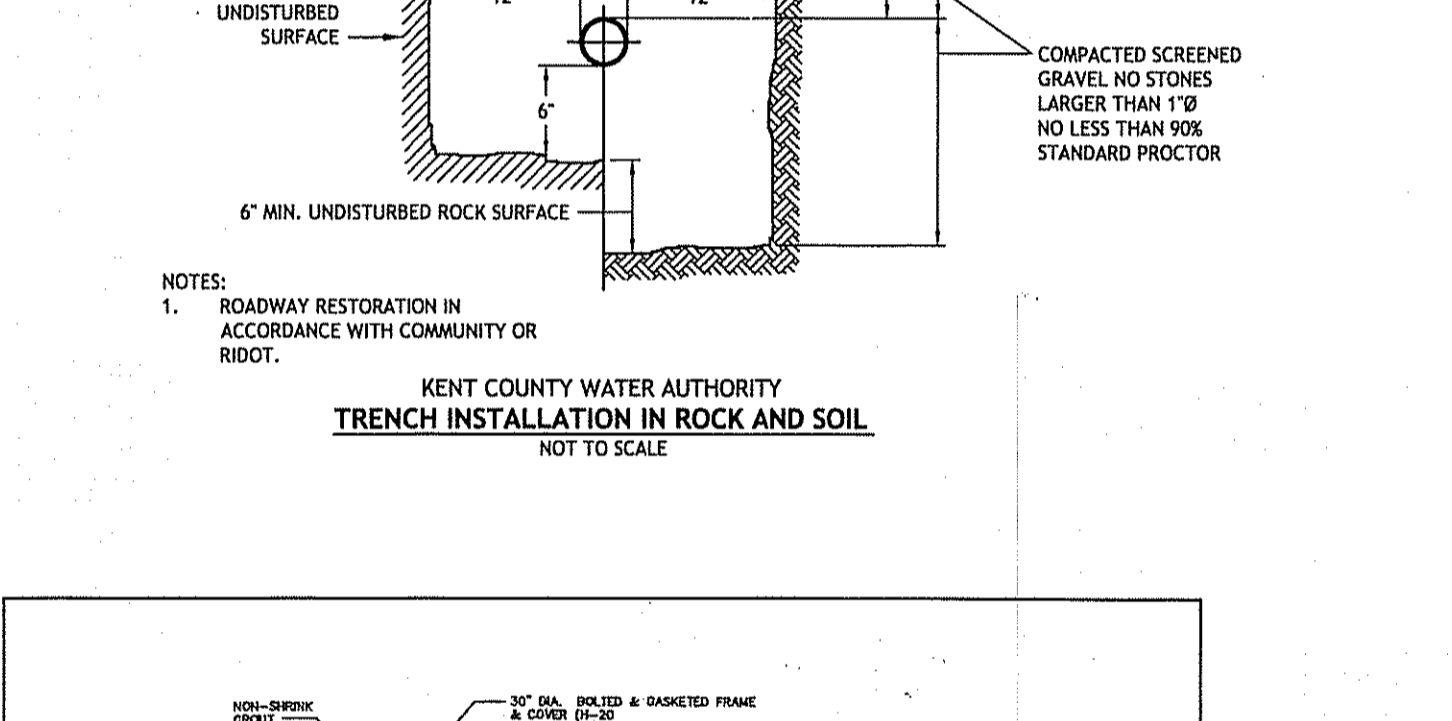
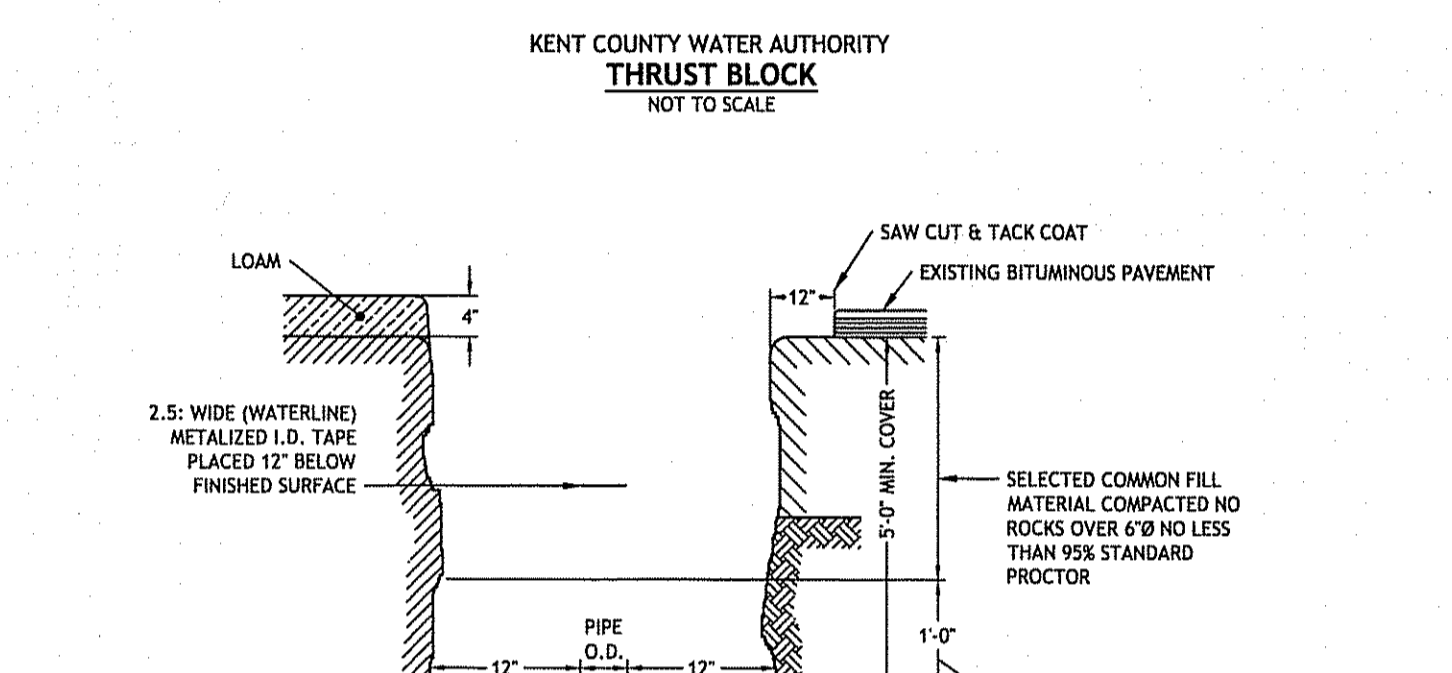
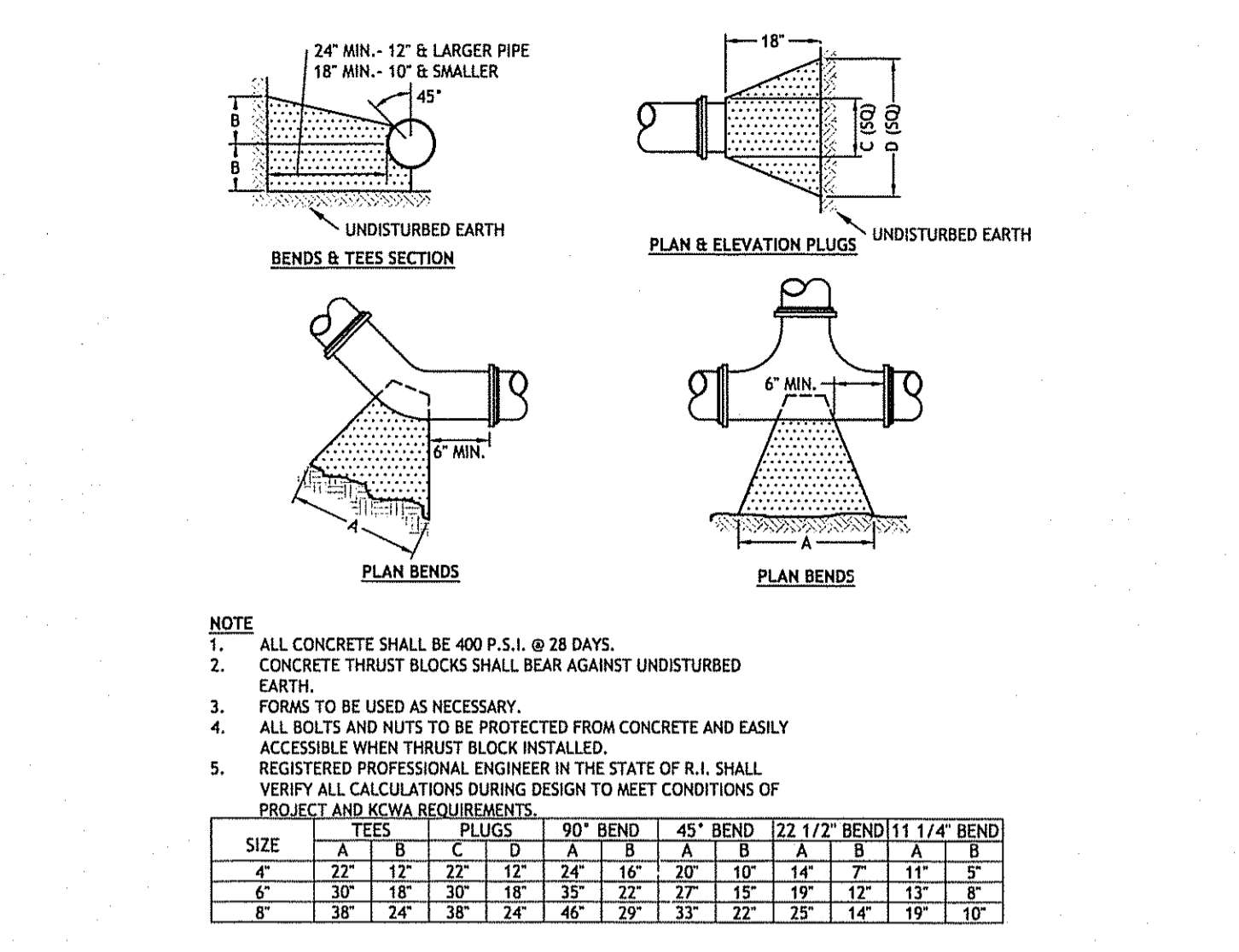
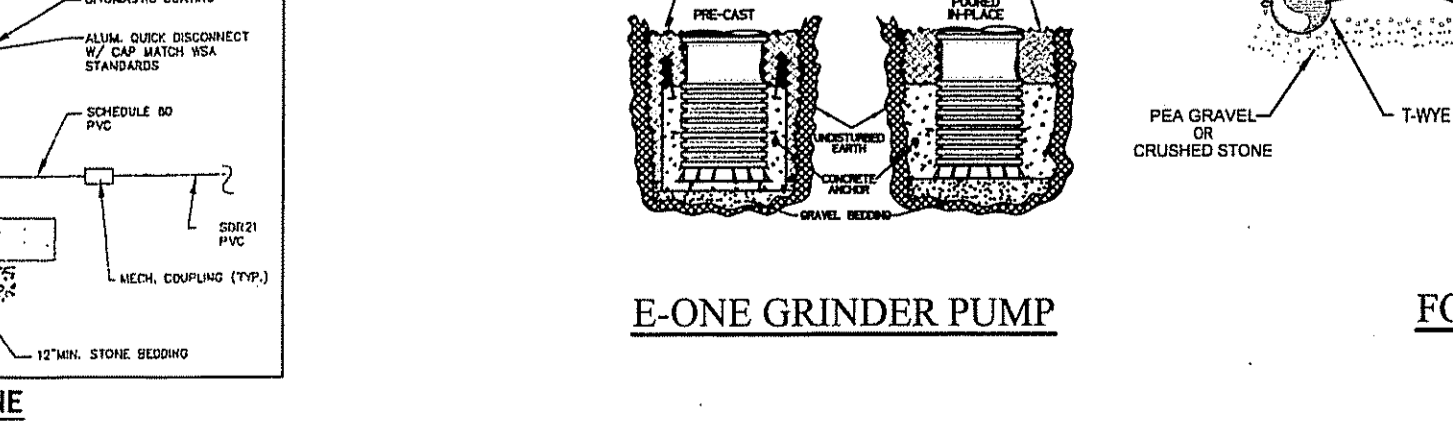
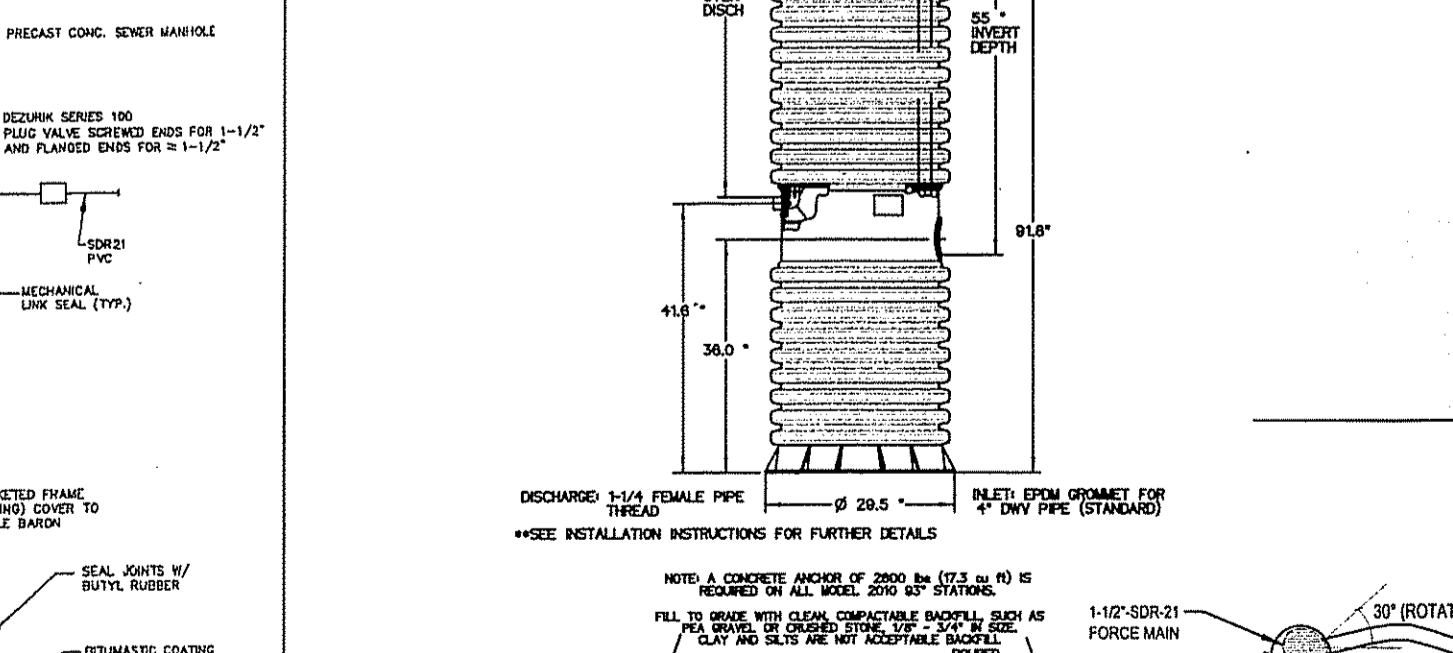
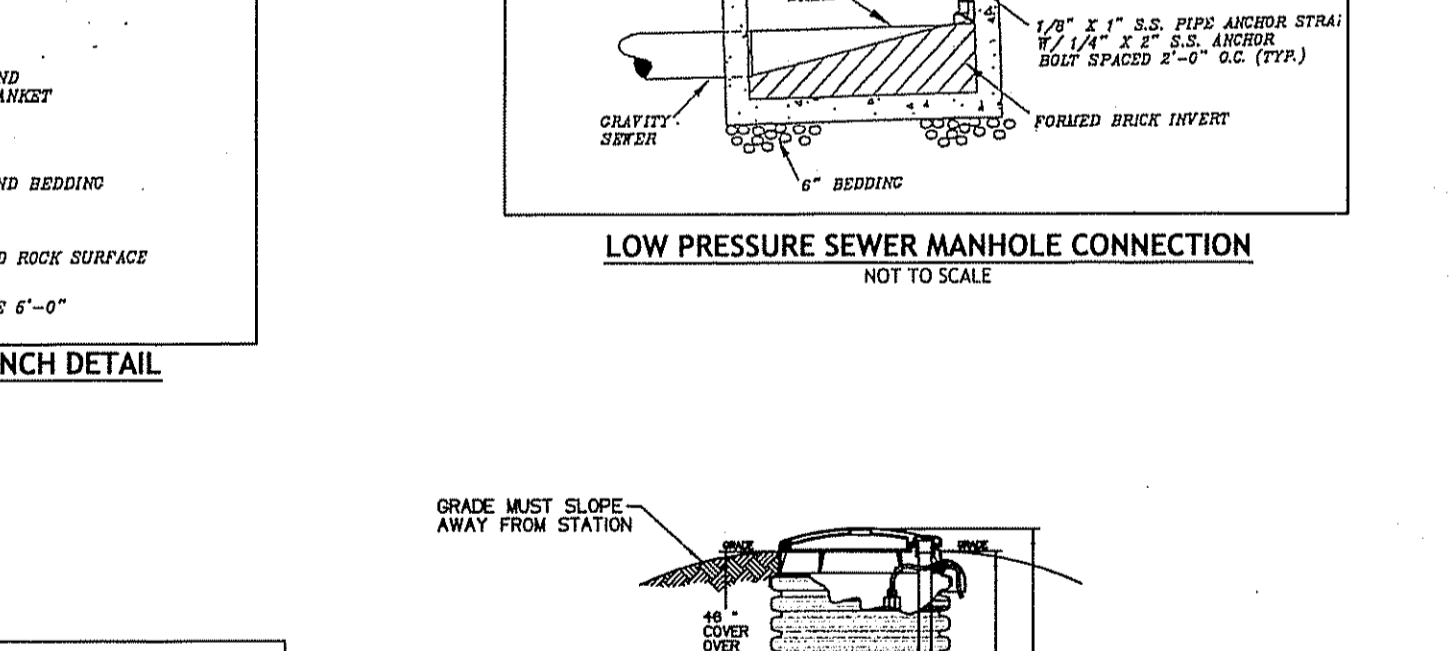
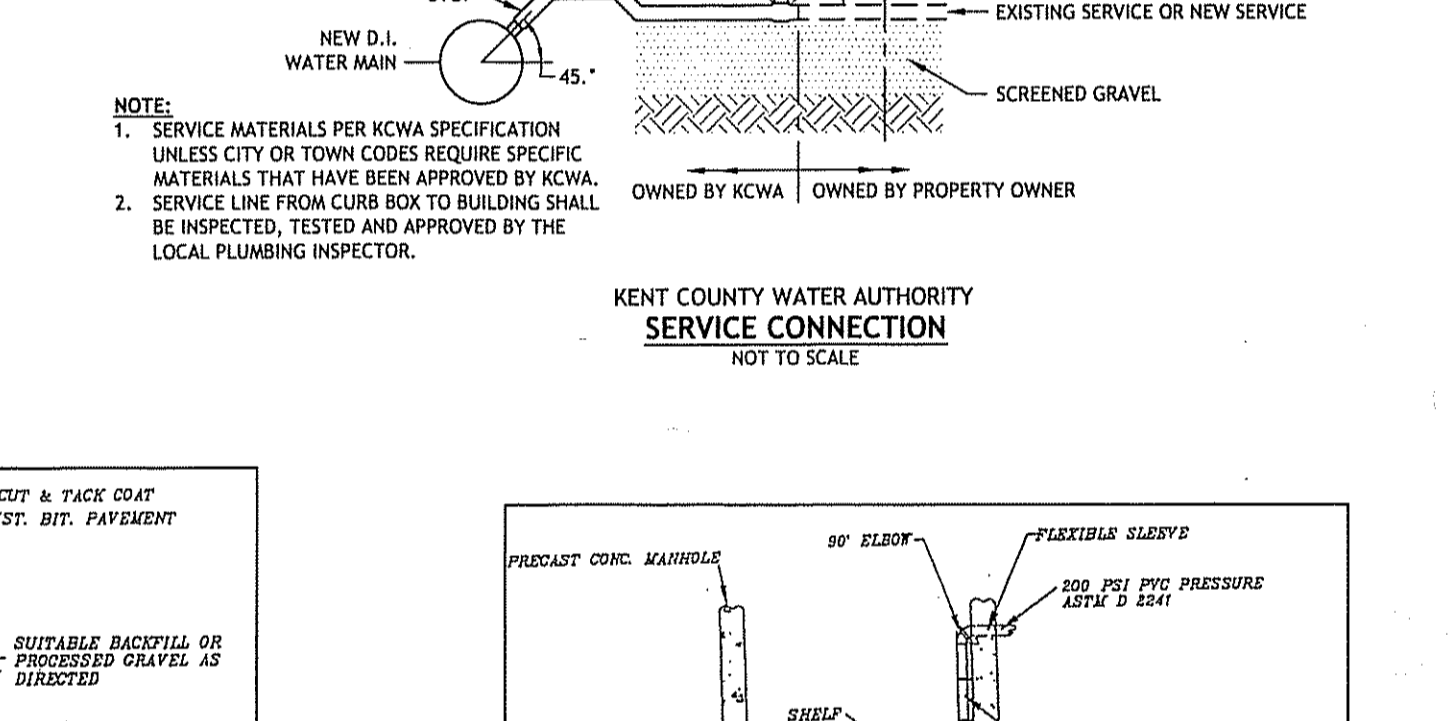
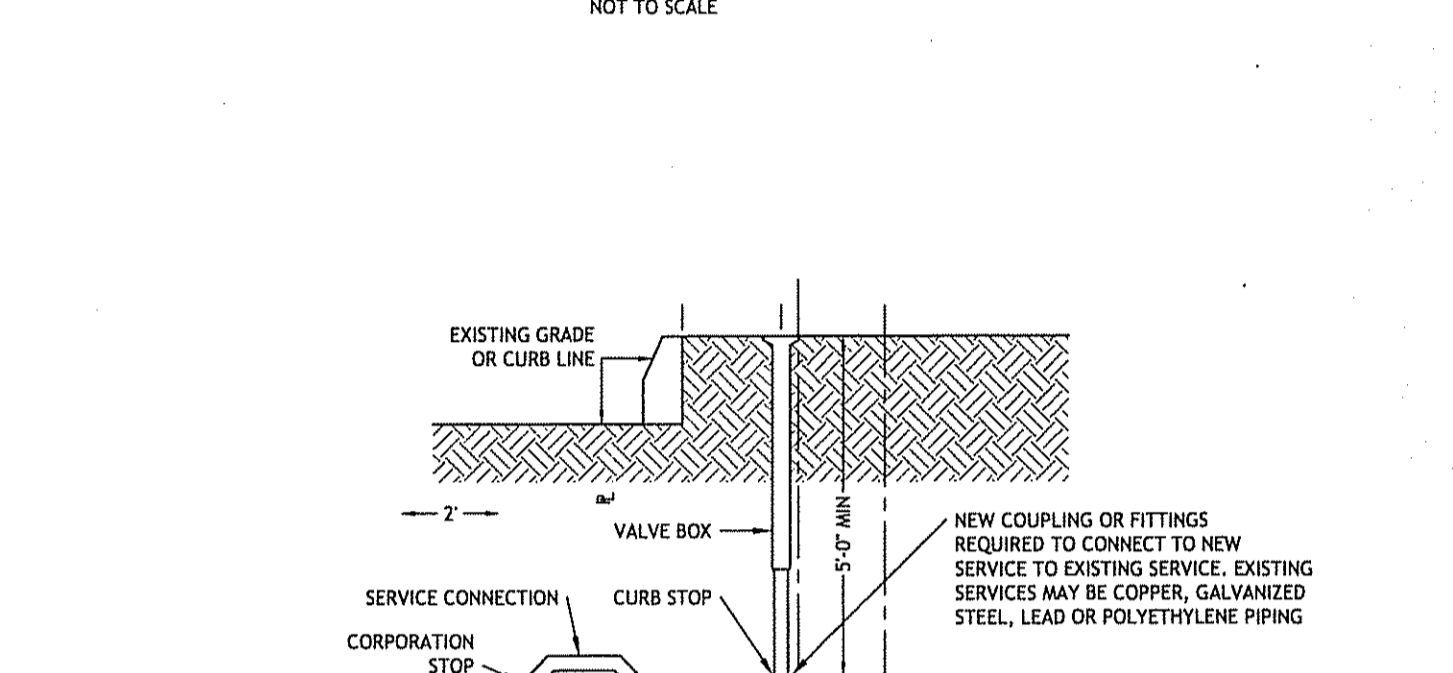
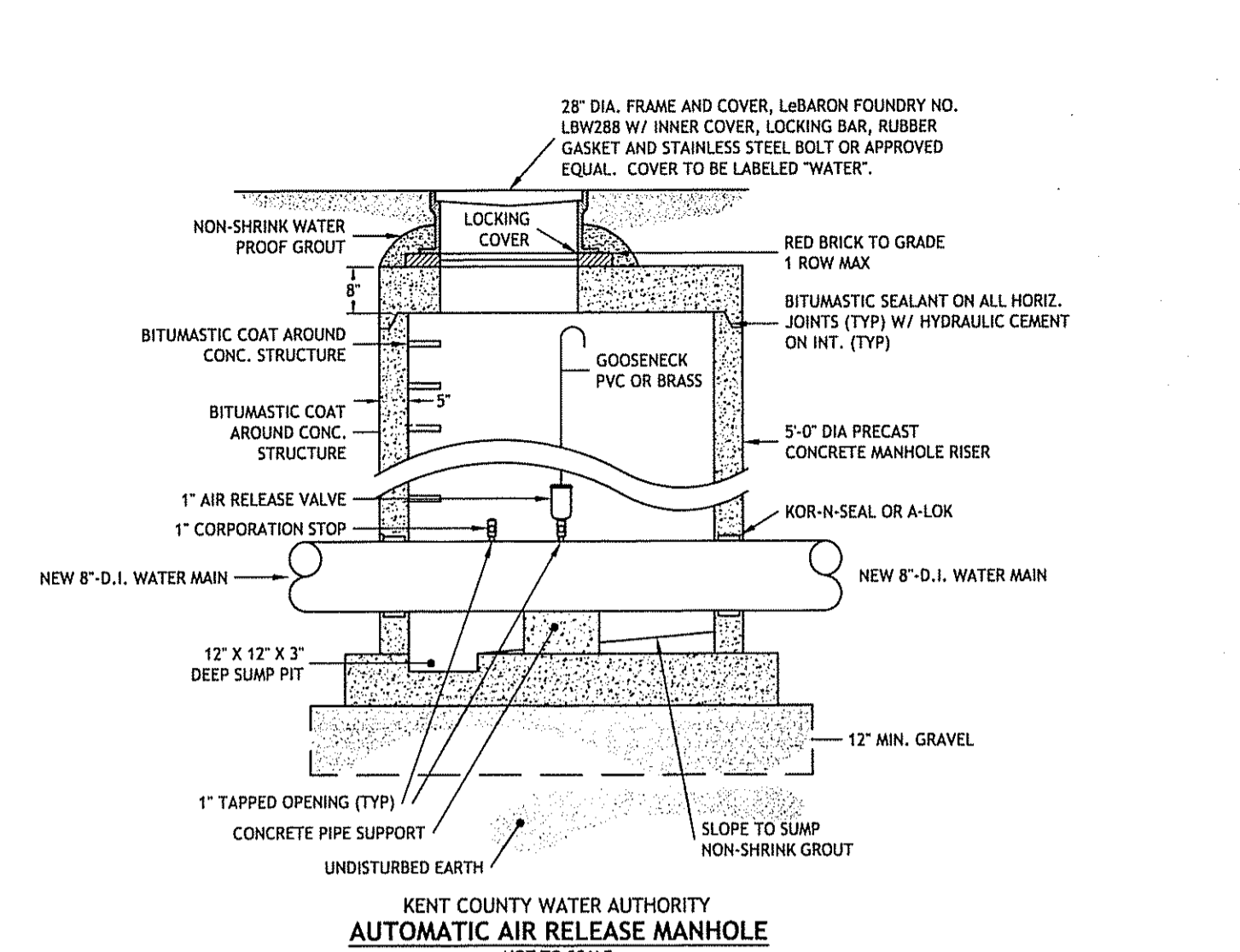
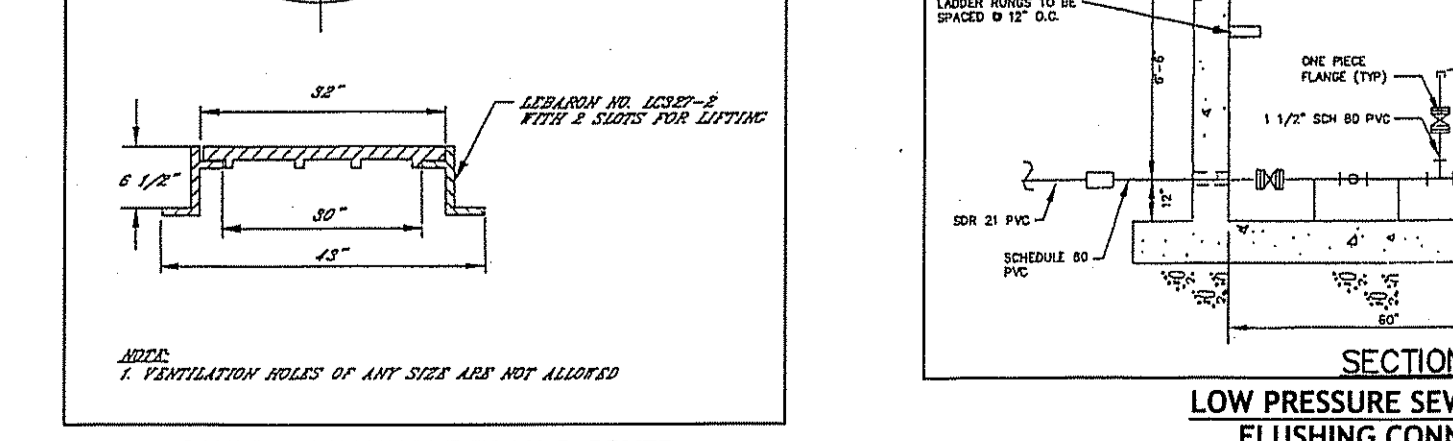
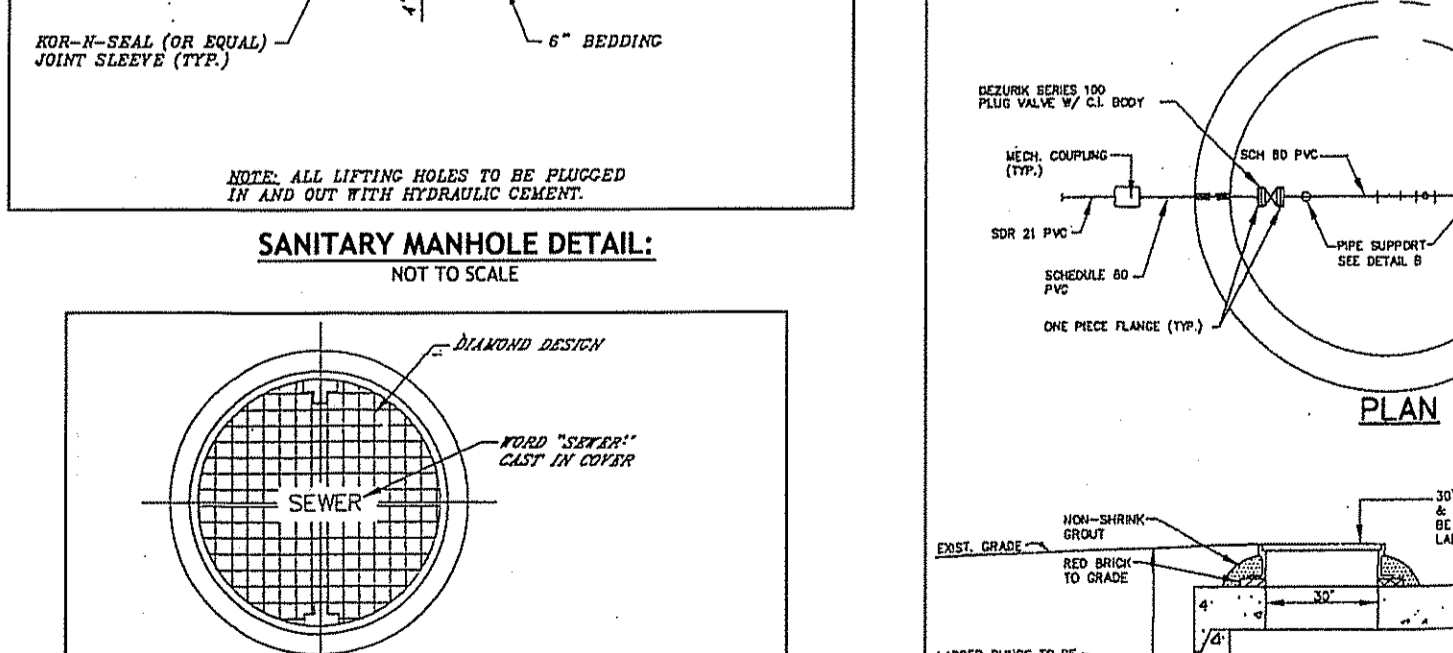
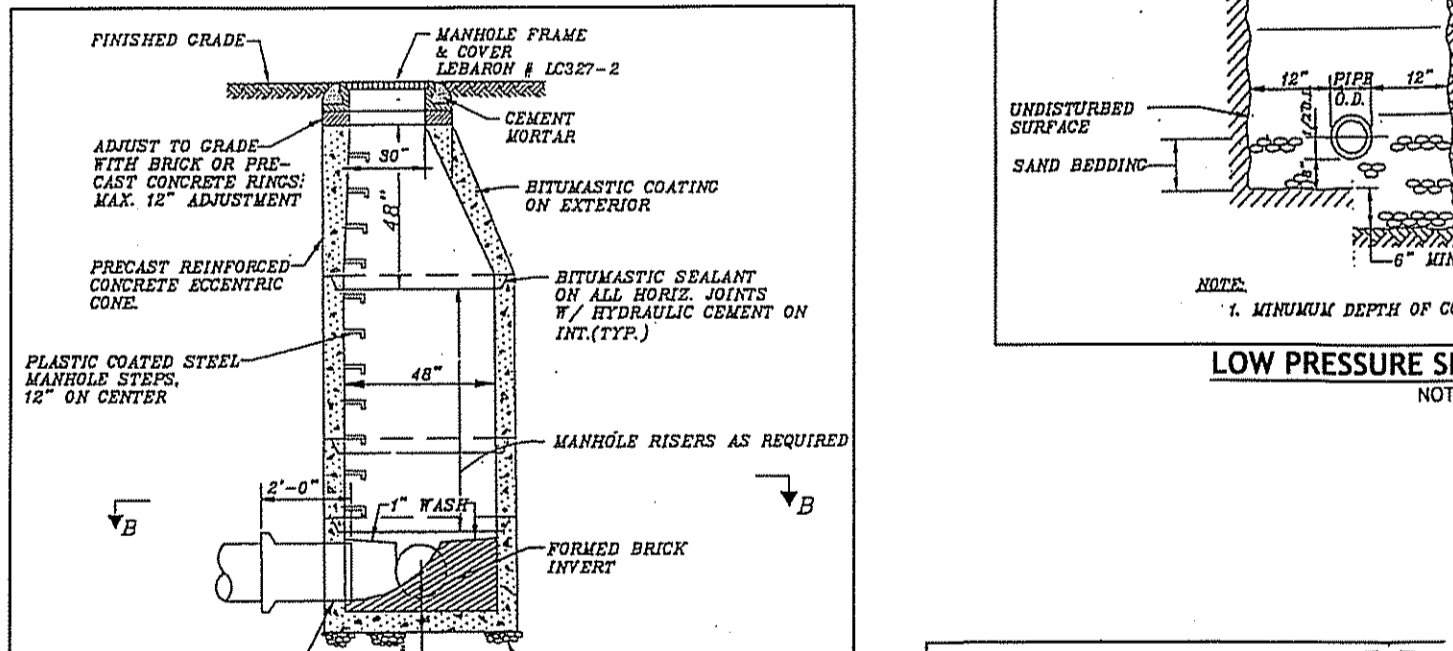
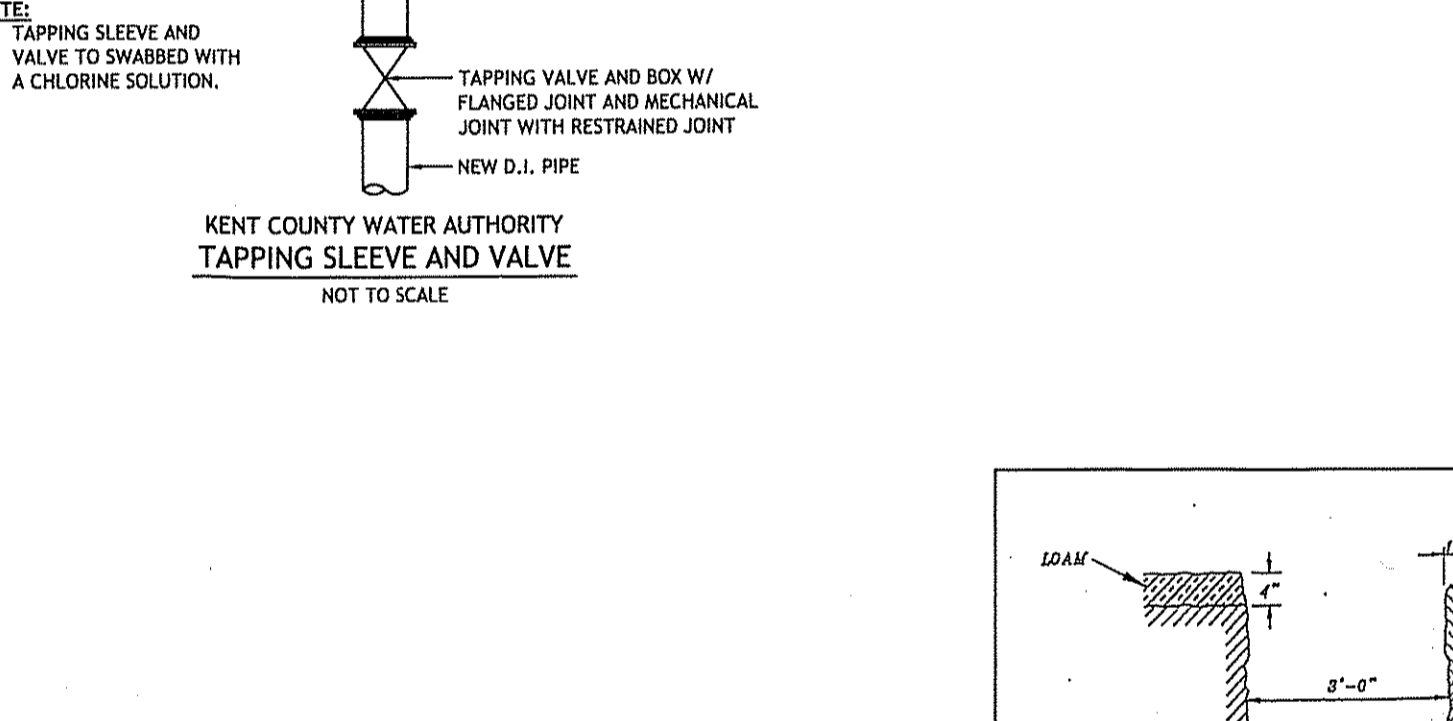
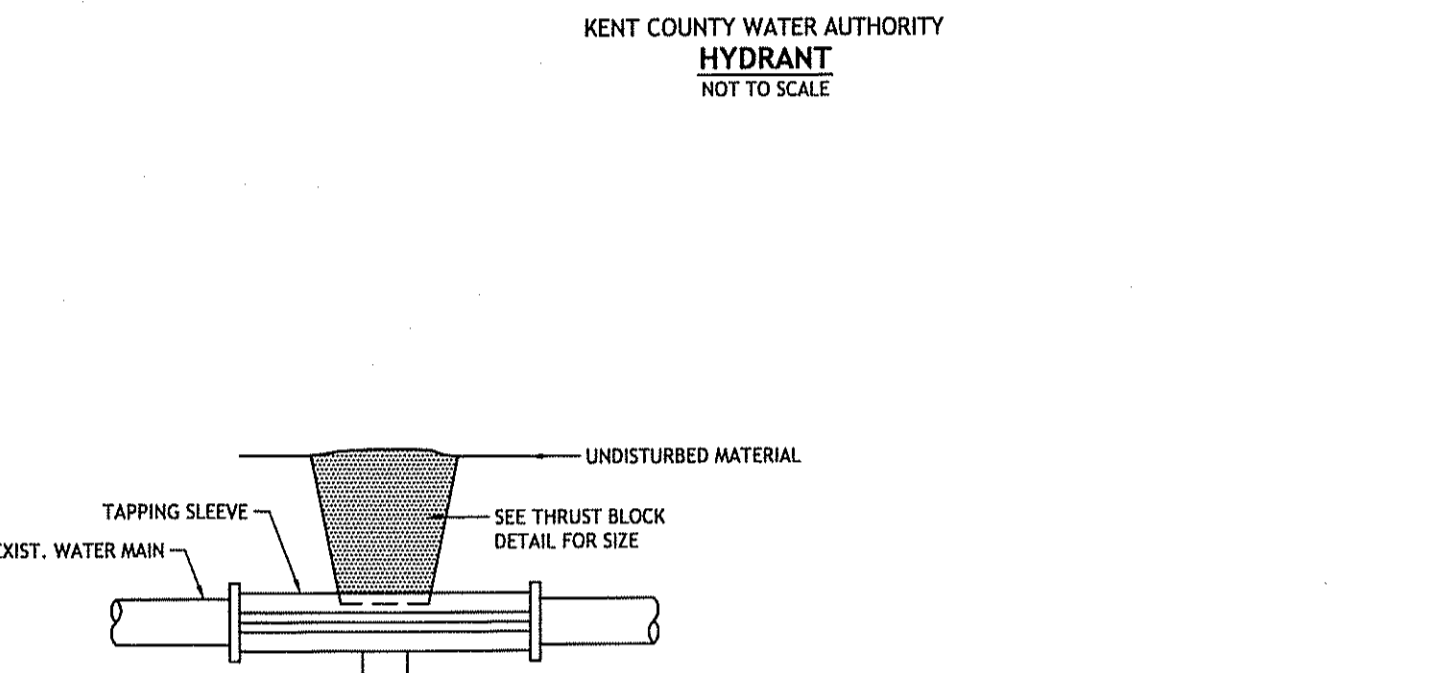
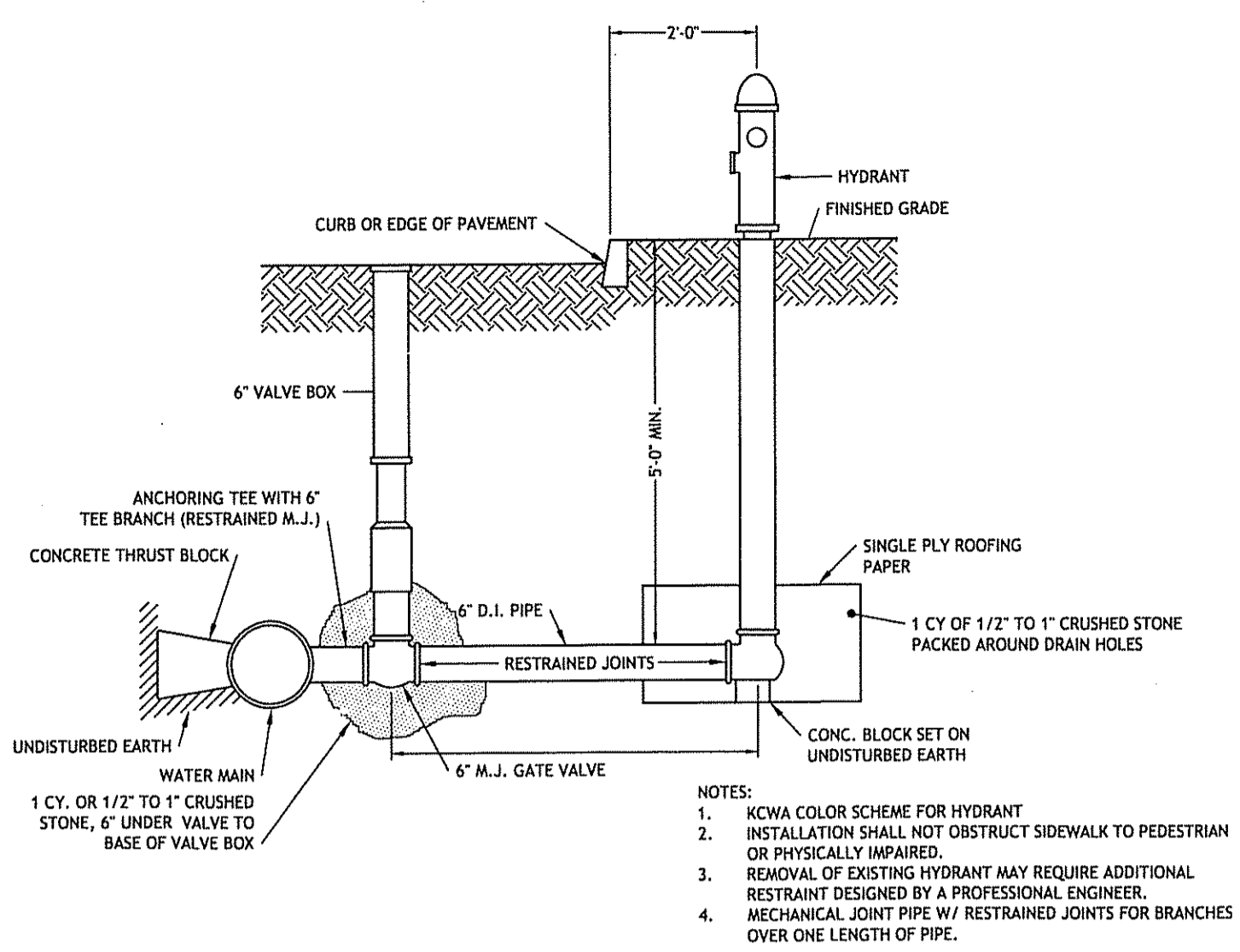
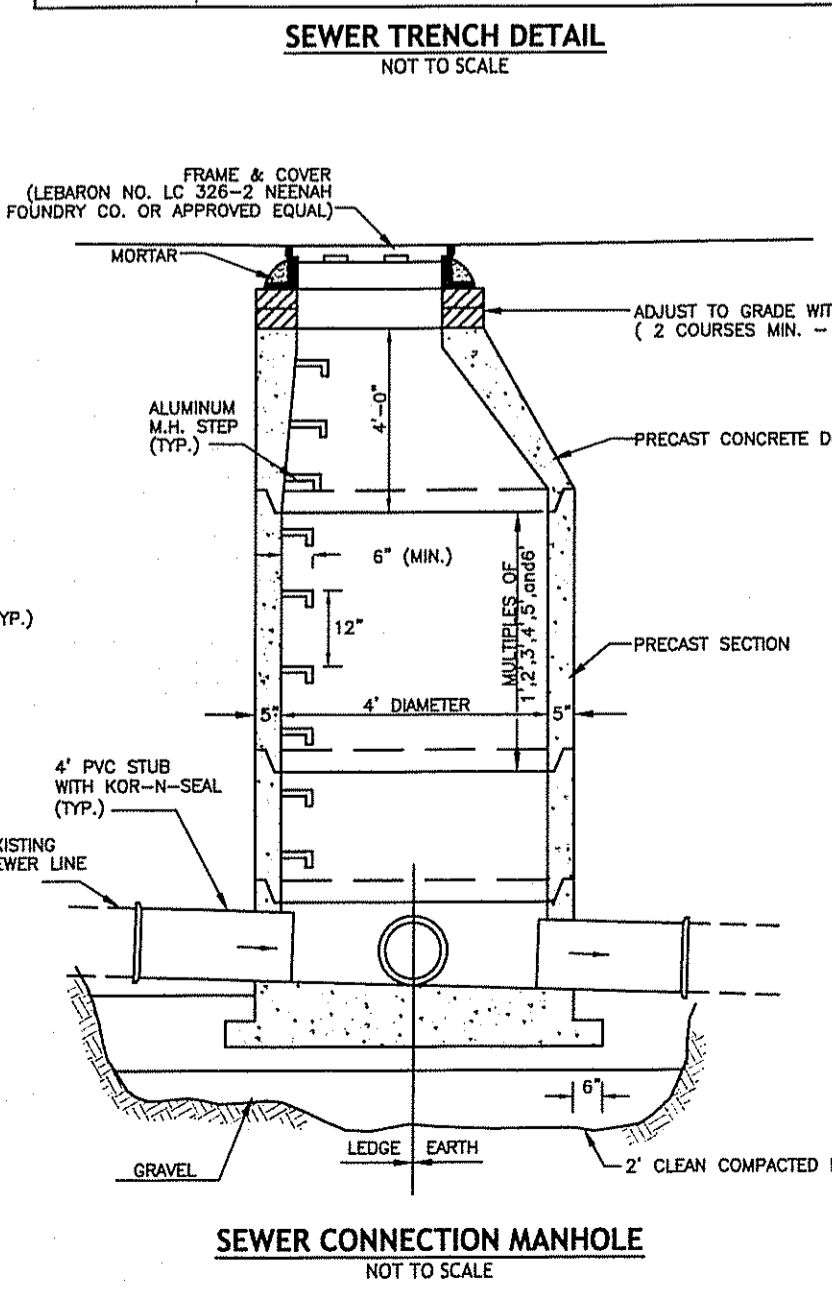
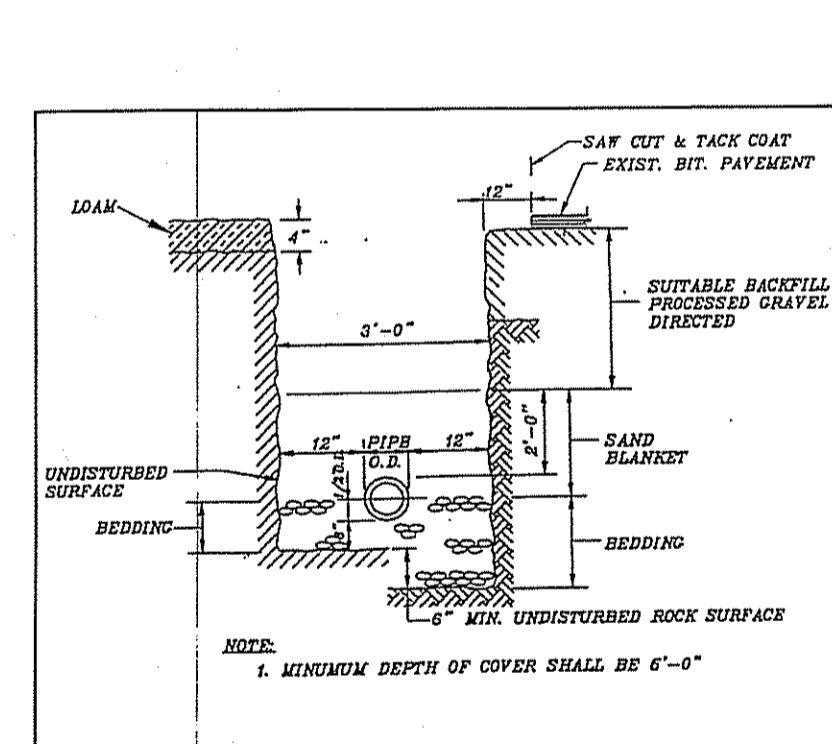
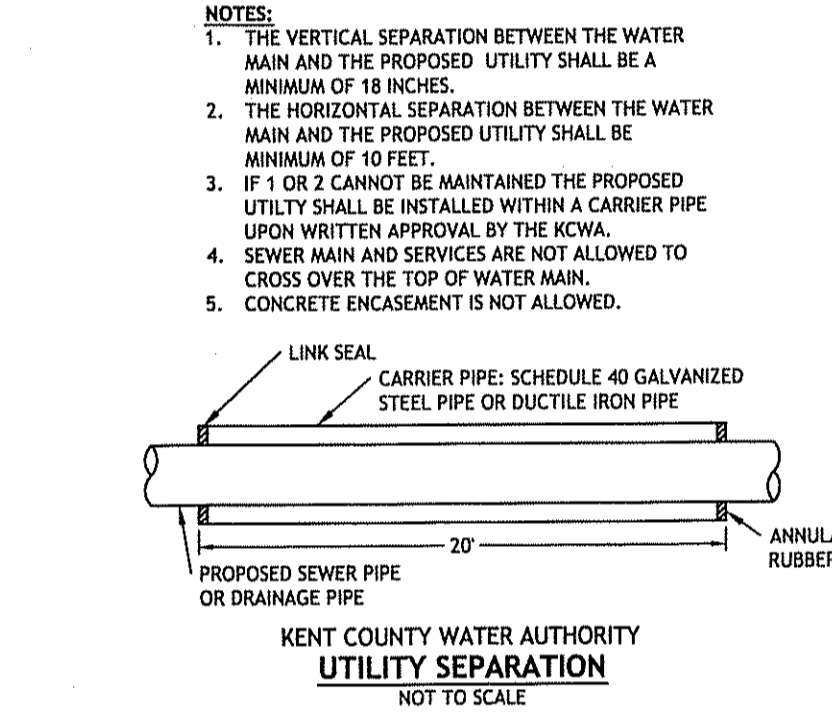
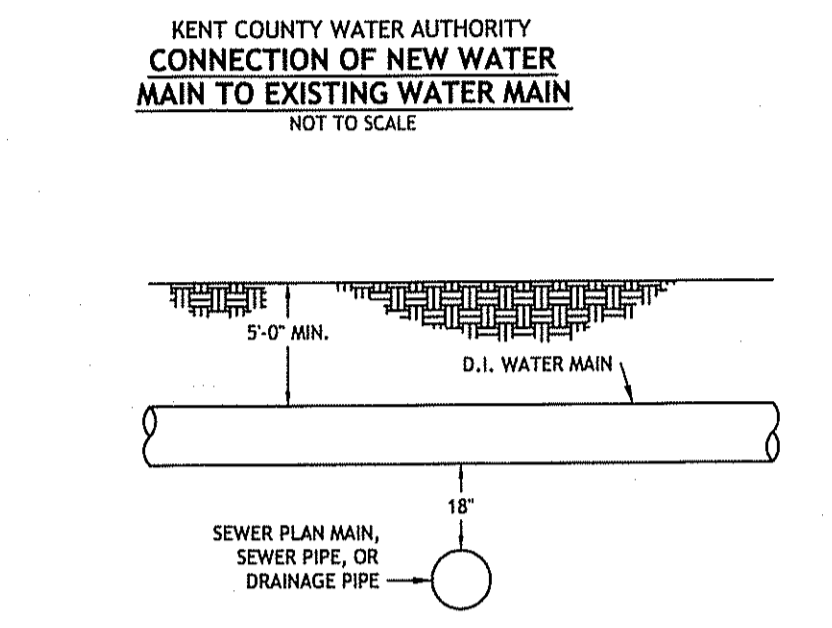
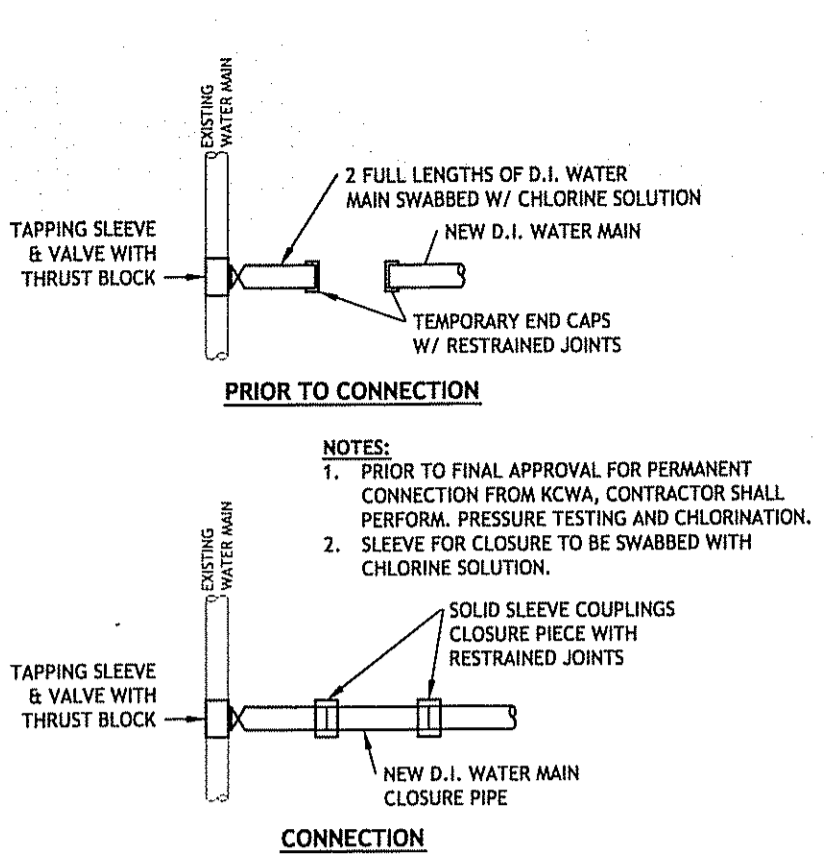
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DESIGNED BY: JKB/GEC
DRAWN BY: GAH
CHECKED BY: DMD
DATE: OCTOBER 2007
PROJECT NO: 07-11b

PRELIMINARY, NOT FOR CONSTRUCTION

DETAILS V

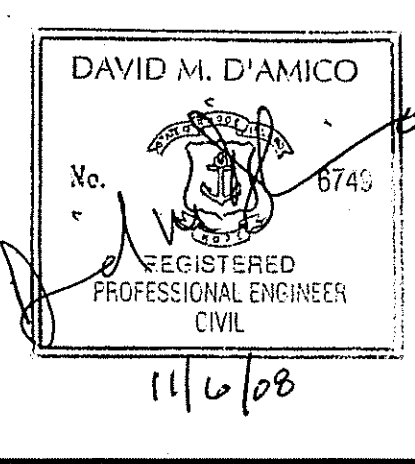
SHEET 13 OF 15



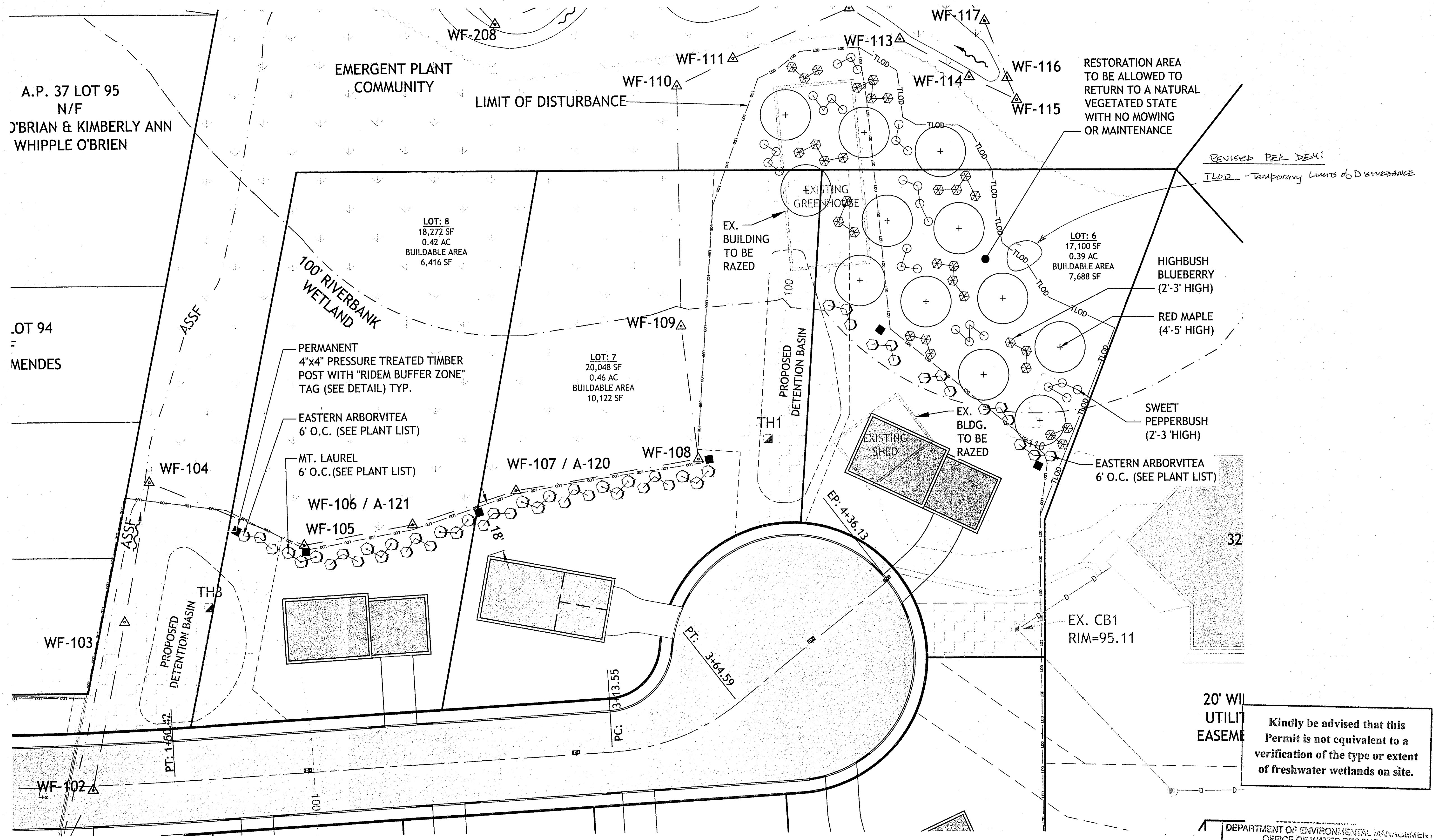
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

Q:\07-11 Antonio Giarrusso\07-11b 6 Barbers CVACAD\PLANSET\GIARRUSSO (plan set).dwg Nov. 05, 2008 12:16pm

OFFICIAL
NOV - 6 2008



PLANT LIST	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS	#
TREES		ACER RUBRUM	RED MAPLE	4'-5'	CONT.	12
SHRUBS		CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	2'-3'	CONT.	29
		KALMIA LATIFOLIA	MOUNTAIN LAUREL	3'	CONT.	18
		THUJA OCCIDENTALIS	EASTERN ARBORVITEA	6-7'	CONT.	33
		VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	2'-3'	CONT.	28



A.P. 37 LOT 95
N/F
O'BRIAN & KIMBERLY ANN
WHIPPLE O'BRIEN

LOT 94
MENDES

BARBERS FARM SUBDIVISION
6 BARBERS COURT
WEST WARWICK, RHODE ISLAND
AP 37 LOTS 194 & 437

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W. Joseph Cooney

SCALE (FEET)
0 10 20 40 80
1 INCH = 20 FT

PRELIMINARY, NOT FOR CONSTRUCTION

WETLAND PLANTING PLAN

SHEET 15 OF 15