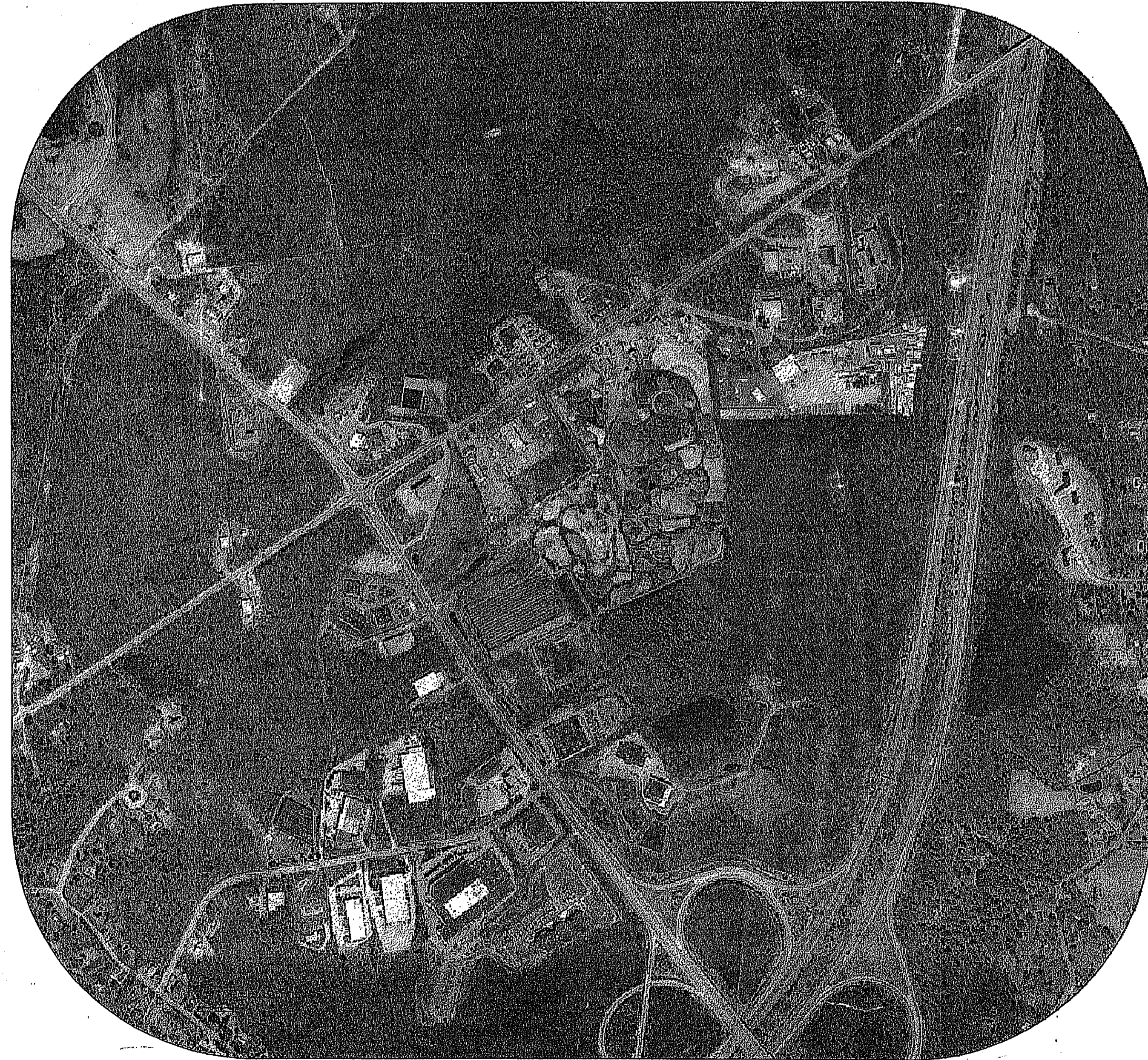


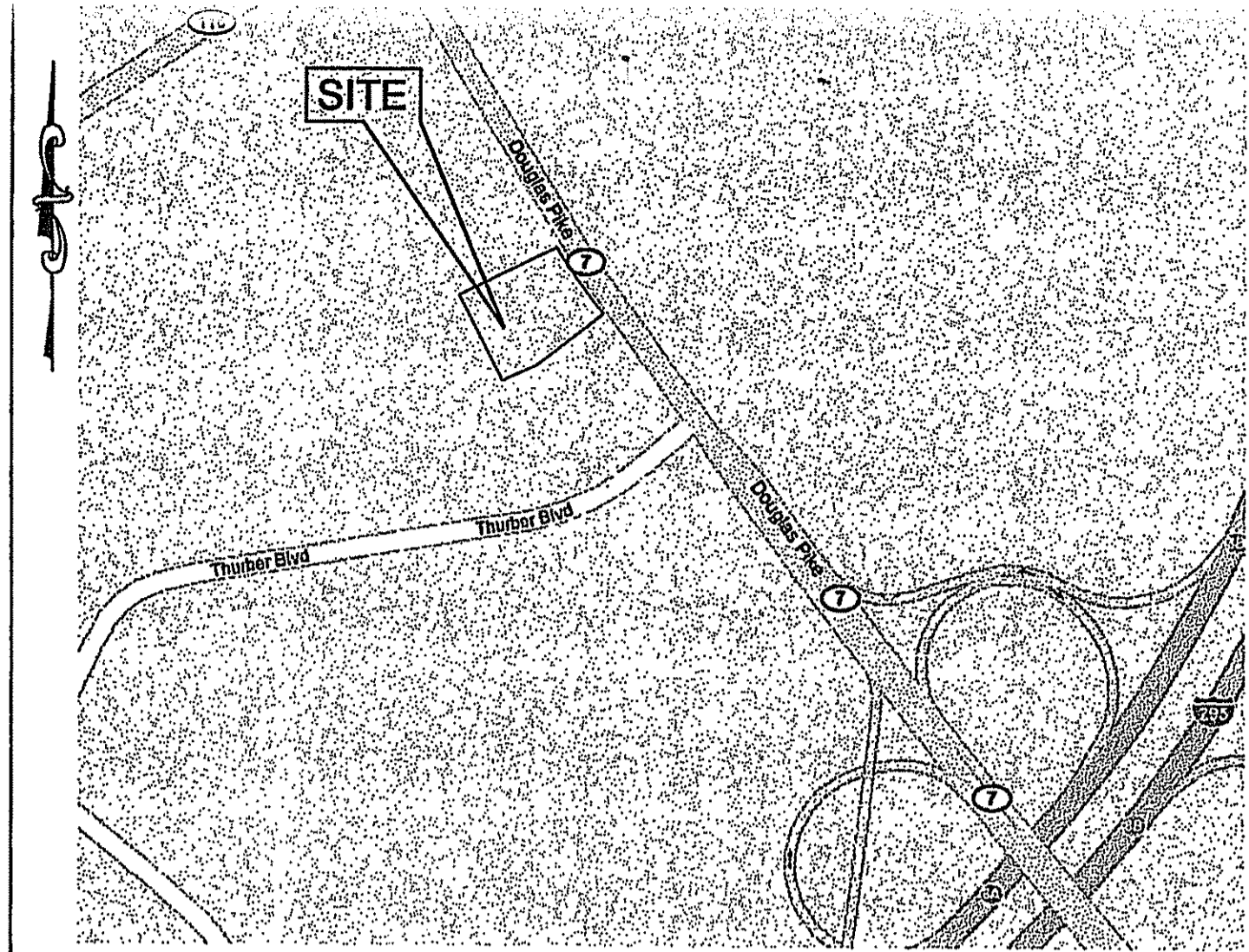
Preliminary Plan Submission

Proposed Hotel

Assessor's Plat 46 Lot 179
 Douglas Pike (Route 7), Smithfield, RI



RIGIS 2004 Orthophotography
 0 500' 1000' 1500'
 1" = 500'



Locus Map
 N.T.S.

Owner/Applicant:

Cedar Swamp Realty II, LLC
 23 Business Park Dr
 Smithfield, Rhode Island 02917

Sheet Index:

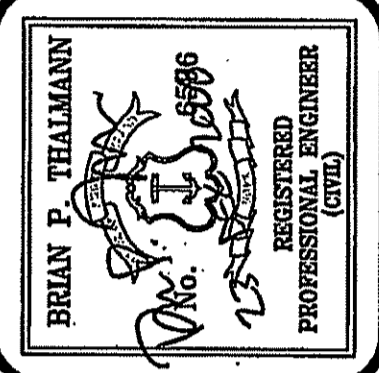
- Sheet 1 Cover Sheet
- Sheet 2 Existing
- Sheet 3 Grading & Drainage
- Sheet 4 Layout/Utilities
- Sheet 5 Details 1
- Sheet 6 Details 2
- Sheet 7 Details 3
- Sheet 8 Landscape Plan

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED FEB 12 2009 FILE # 08-0325
 NO WORKS ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Hackett

JAN 2 2009

NO.	DATE	DESCRIPTION
1	12-10-08	PAPA COMMENTS
2	12-22-08	RIDEM COMMENTS DATED 11-24-08
3	12-22-08	UIC COMMENTS DATED 11-9-08



Thalmann Engineering Co., Inc.
 Civil Engineering • Land Planners
 600 Putnam Pike, Suite #7
 Greenville, Rhode Island 02828
 (401) 349-3040 • (401) 349-3041 (fax)

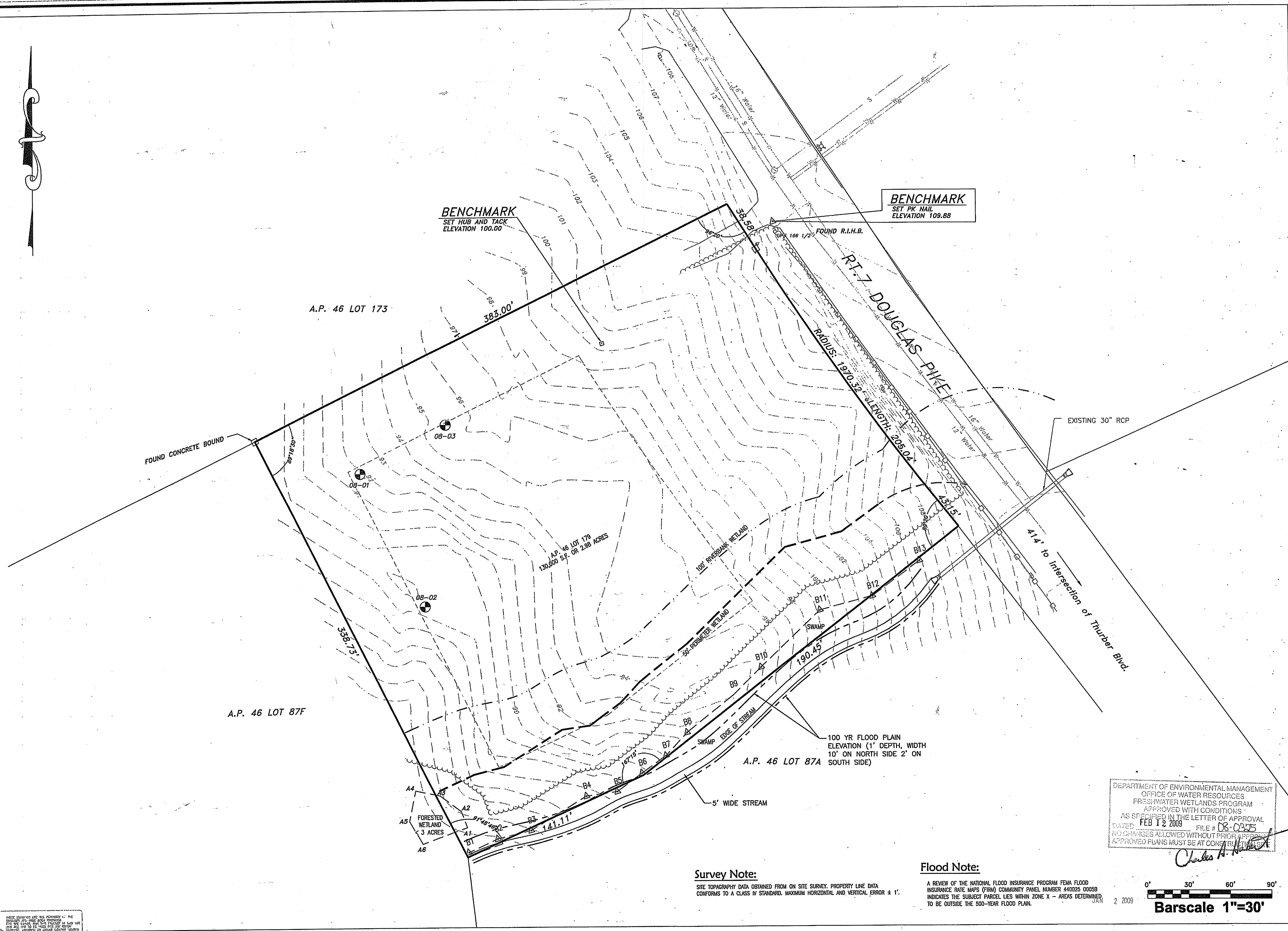
Lot 179
 Rhode Island
 Smithfield
 date: Aug-2008

Cover Sheet
Hotel Development
 944 Douglas Pike
 Prepared for:
 Cedar Swamp Realty
 23 Business Park Drive

Design By: NJP
 Checked By: BPT

Sheet
1
 of 8

FILE NO.: 08.018



BENCHMARK
SET HUB AND TACK
ELEVATION 100.00

BENCHMARK
SET PK NAIL
ELEVATION 109.88

A.P. 46 LOT 173

383.00'

FOUND CONCRETE BOUND

08-01

08-03

A.P. 46 LOT 179
130,800 S.F. OR 2.98 ACRES

08-02

A.P. 46 LOT 87F

338.73'

FORESTED
WETLAND
3 ACRES

A1
A2
A3
A4
A5
A6

141.11'

A.P. 46 LOT 87A

5' WIDE STREAM

100 YR FLOOD PLAIN
ELEVATION (1" DEPTH, WIDTH
10' ON NORTH SIDE 2' ON
SOUTH SIDE)

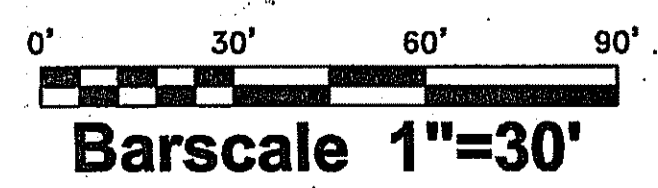
Survey Note:

SITE TOPOGRAPHY DATA OBTAINED FROM ON SITE SURVEY. PROPERTY LINE DATA CONFORMS TO A CLASS IV STANDARD. MAXIMUM HORIZONTAL AND VERTICAL ERROR ± 1".

Flood Note:

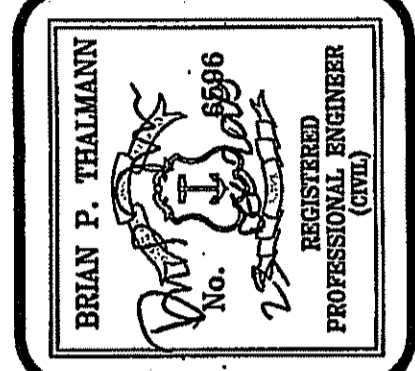
A REVIEW OF THE NATIONAL FLOOD INSURANCE PROGRAM FEMA FLOOD INSURANCE RATE MAPS (FIRM) COMMUNITY PANEL NUMBER 440025 0005B INDICATES THE SUBJECT PARCEL LIES WITHIN ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED FEB 12 2009 FILE # 06-0325
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A. ...



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NO.	DATE	DESCRIPTION	BY



Thalman Engineering Co., Inc.
Civil Engineering • Land Planners
600 Putnam Pike, Suite #7
Greenville, Rhode Island 02828
(401) 349-3040 • (401) 349-3041 (fax)

Existing Conditions Plan
Hotel Development
944 Douglas Pike
Prepared for:
Cedar Swamp Realty
23 Business Park Drive
Smithfield
Rhode Island
Lot 179
Scale: 1"=500'

Design By: NJP
Checked By: BPT
Sheet
2
of 8
FILE NO.: 08.018

THE STATE HAS THE RIGHT TO CONTINUE CONVEYANCE OF STORMWATER ON AND ACROSS THE PROPERTY.

Sheet Legend

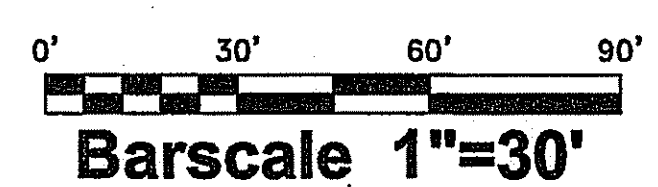
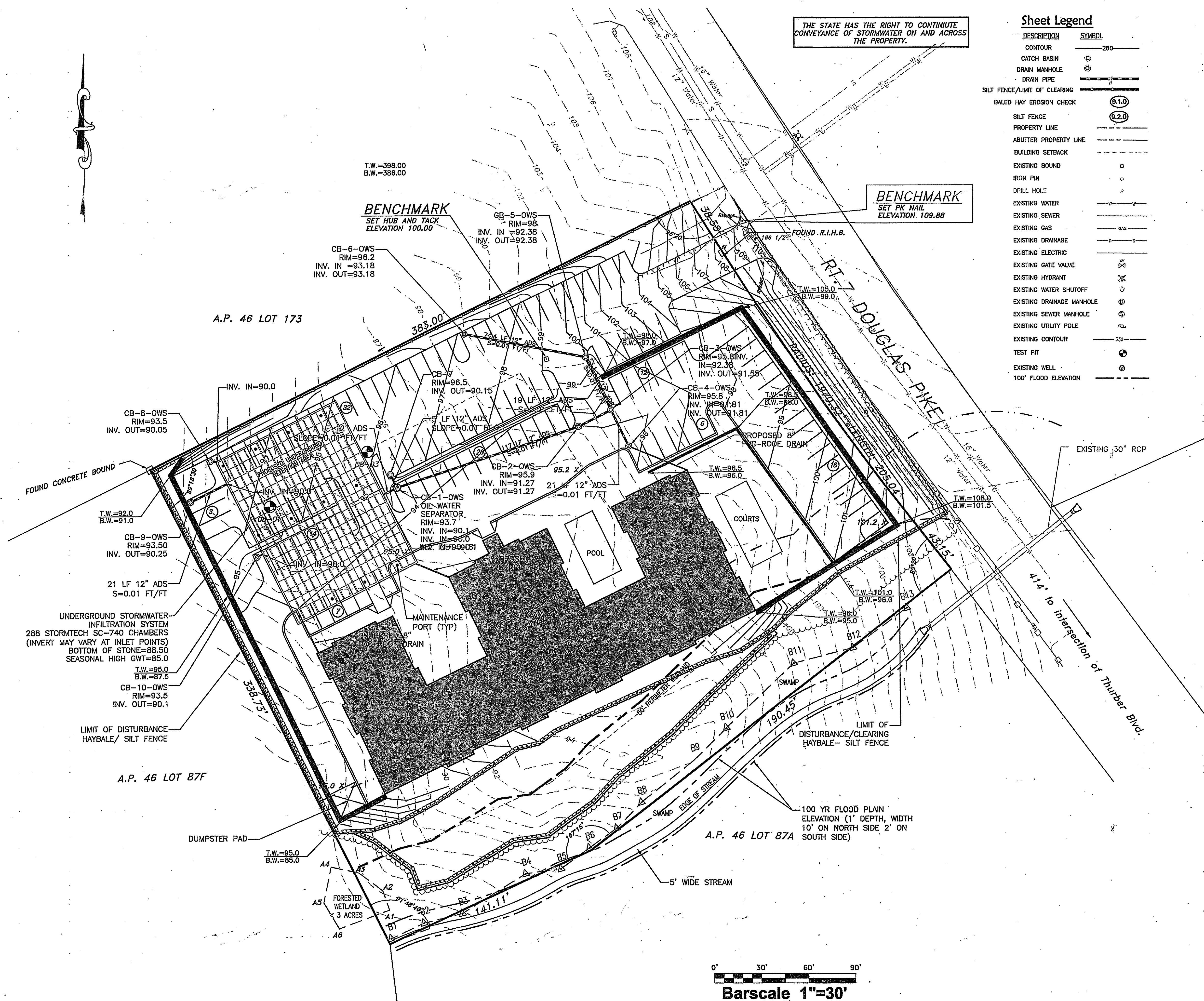
DESCRIPTION	SYMBOL
CONTOUR	280
CATCH BASIN	⊕
DRAIN MANHOLE	⊙
DRAIN PIPE	—
SILT FENCE/LIMIT OF CLEARING	—
BALED HAY EROSION CHECK	⊙
SILT FENCE	⊙
PROPERTY LINE	—
ABUTTER PROPERTY LINE	—
BUILDING SETBACK	—
EXISTING SOUND	⊕
IRON PIN	⊙
DRILL HOLE	⊙
EXISTING WATER	—
EXISTING SEWER	—
EXISTING GAS	—
EXISTING DRAINAGE	—
EXISTING ELECTRIC	—
EXISTING GATE VALVE	⊕
EXISTING HYDRANT	⊕
EXISTING WATER SHUTOFF	⊕
EXISTING DRAINAGE MANHOLE	⊕
EXISTING SEWER MANHOLE	⊕
EXISTING UTILITY POLE	⊕
EXISTING CONTOUR	—
TEST PIT	⊕
EXISTING WELL	⊕
100' FLOOD ELEVATION	—

SITE GRADING AND DRAINAGE NOTES

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE CONTRACTOR SHALL NOTIFY "DIG-SAFE" PRIOR TO EXCAVATION AND SHALL NOTIFY LOCAL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE COMMENCEMENT OF WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND RELOCATE UTILITIES AS REQUIRED SHOULD THERE BE A CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A SOIL EROSION PERMIT PRIOR TO THE INITIATION OF CONSTRUCTION WORK AND SHALL INSTALL ALL SOIL EROSION PROTECTION DEVICES PER PLAN PRIOR TO ANY EARTH MOVING ACTIVITIES AND/OR REMOVAL OF VEGETATION.
- PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION. SHOP DRAWINGS OF PRECAST STRUCTURES SHALL BE REVIEWED BY THE ENGINEER AND APPROVED BEFORE USE.
- ALL CATCH BASINS ARE TO BE 4 FT. DIAMETER WITH 3 FT. SUMPS, UNLESS OTHERWISE SPECIFIED AS OIL/WATER SEPARATORS (SEE DETAIL).
- DRAINAGE PIPE SHALL ADS N-12.
- ALL ROOF DRAINS TO BE TIED INTO NEAREST DRAIN PIPE OR STRUCTURE. COORDINATE WITH ARCHITECTURALS.
- EXISTING AND PROPOSED CONTOURS ARE SHOWN AT 1 FOOT INTERVALS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL STREETS OR STREETS. THE CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH TOWN SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR IS REQUIRED TO DEVELOP AND IMPLEMENT A PLAN FOR THE TEMPORARY CONTROL OF VEHICULAR AND PEDESTRIAN TRAFFIC FOR WORK WITHIN PUBLIC STREET RIGHT-OF-WAY AT THE SITE EGRESS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF SAID PLAN FROM APPROPRIATE STATE AND COMMUNITY PUBLIC SAFETY OFFICIALS.
- WHEN IT IS NECESSARY TO CLOSE OFF A STREET, THE FIRE DEPARTMENT AND POLICE DEPARTMENT SHALL BE NOTIFIED BY THE CONTRACTOR.
- DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR IS RESPONSIBLE FOR ROPING OFF THE AREA OF THE SUBSURFACE INFILTRATION SYSTEM FROM ALL CONSTRUCTION RELATED ACTIVITIES TO ENSURE THE SUBSURFACE SOILS DO NOT BECOME COMPACTED PRIOR TO THE INSTALLATION OF THE SYSTEM.
- REFER TO DETAIL SHEETS FOR ADDITIONAL GENERAL NOTES.

General Construction Notes

- AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE. DEVIATIONS OR CHANGES WILL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. THE CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
- BUILDING DIMENSIONS INDICATED ARE PRELIMINARY AND BASED ON GENERAL TENANT INFORMATION ONLY. FINAL BUILDING DIMENSIONS AND LAYOUT MAY VARY TO INCLUDE ADDITIONAL CANOPIES, OVERHANGS, VESTIBLES, DRIVE-THRU, DUMPSTERS, ETC. AS ALLOWED WITHIN THE BYLAWS OF THE TOWN OF SMITHFIELD AND AS MAY BE WARRANTED TO MEET TENANT REQUIREMENTS.
- METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS FOR THIS PROJECT SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE TOWN OF SMITHFIELD AND THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ALL EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
- CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION OR BLASTING AT LEAST TWO WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS, PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION. ALL WATER, GAS, SEWER, AND OTHER UTILITIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, DRIVEWAYS, WALKS, WALLS, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS CAREFULLY ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING UTILITIES ON THESE PLANS; HOWEVER, THIS INFORMATION SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES FOR EXACT LOCATION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE ANY AND ALL DAMAGE MADE TO THE UTILITIES BY THE CONTRACTOR.
- CONTRACTOR SHALL COORDINATE WITH RIOT SURVEY PRIOR TO RESETTING THE EXISTING MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED FEB 12 2009 FILE # 08-0235. NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL. APPROVED PLANS MUST BE AT CONSTRUCTION SITE.



OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
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Jan 2 2009

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1	12-10-08	PAPA COMMENTS
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3	12-22-08	UIC COMMENTS DATED 11-9-08

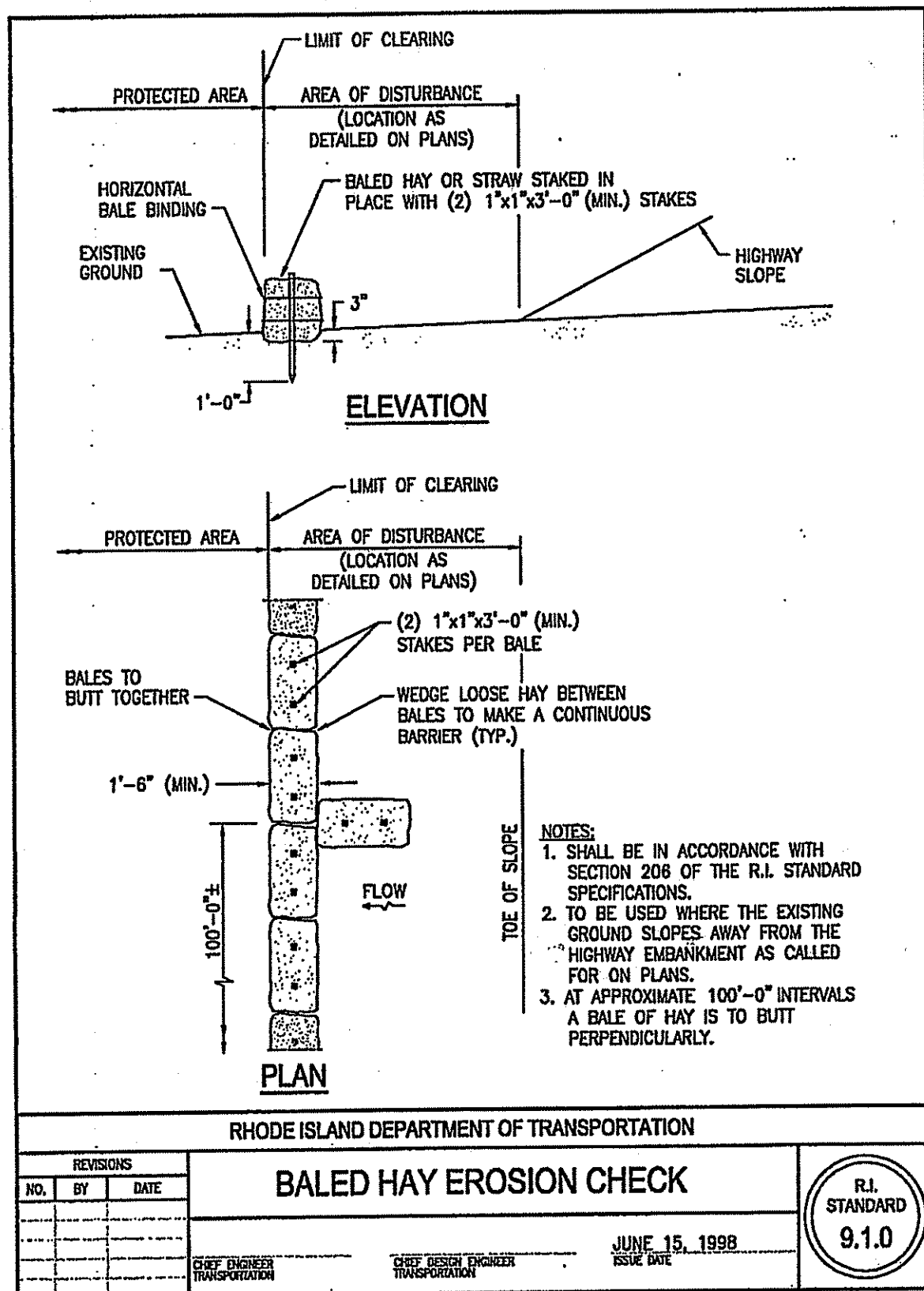


Thalmann Engineering Co., Inc.
Civil Engineering • Land Planners
600 Putnam Pike, Suite #7
Greenville, Rhode Island 02828
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Grading and Drainage Plan
Hotel Development
944 Douglas Pike
Prepared for:
Cedar Swamp Realty
23 Business Park Drive
Smithfield
Rhode Island
Scale: 1"=30'
Date: Aug-2008

Design By: NJP
Checked By: BPT
Sheet
3
of 8
FILE NO.: 08.018

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MAINTENANCE SCHEDULE FOR DRAINAGE STRUCTURES

GENERAL
LONG-TERM MAINTENANCE OF THE DRAINAGE STRUCTURES WILL BE COMPLETED BY THE PROPERTY OWNER. THE CONTRACTOR SHALL MAINTAIN ALL DRAINAGE COMPONENTS DURING AND DIRECTLY AFTER CONSTRUCTION. THE OIL/WATER SEPARATORS SHALL BE RECORDED ON THE PROPERTY DEED. ALL OPERATIONAL MAINTENANCE REQUIREMENTS WILL ALSO BE RECORDED ON THE TITLE.

CATCH BASINS & PAVED WATERWAY
1. MAINTENANCE OF ALL CATCH BASINS AND OIL/WATER SEPARATOR CATCH BASINS ON-SITE WILL OCCUR AS SEDIMENT AND DEBRIS REACHES A DEPTH OF TWO (2) FT. WITHIN THE SUMP. CHECK FOR STRUCTURAL INTEGRITY & REPAIR IMMEDIATELY AS REQUIRED.
2. ALL DEBRIS, SEDIMENT, AND/OR GREASE SHALL BE REMOVED FROM THE OIL/WATER SEPARATOR CATCH BASINS AND DISPOSED OF IN ACCORDANCE WITH STATE AND FEDERAL GUIDELINES.
3. CHECK PAVED WATERWAY FOR AND REMOVE ANY SEDIMENT BUILD-UP UPSTREAM OR DOWNSTREAM.

UNDERGROUND DETENTION SYSTEMS
1. MAINTENANCE OF STORMTECH INFILTRATION SYSTEM SHALL OCCUR ON A YEARLY BASIS AND IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS (STORMTECH 1-888-892-2694).
2. SEDIMENTS SHALL BE REMOVED WITH USE OF VACUUM TRUCK BY WAY OF INSPECTION PORTS. SEDIMENTS SHALL BE REMOVED FROM SITE.
3. MAINTENANCE OF INFILTRATION SYSTEM IS RESPONSIBILITY OF PROPERTY OWNER.

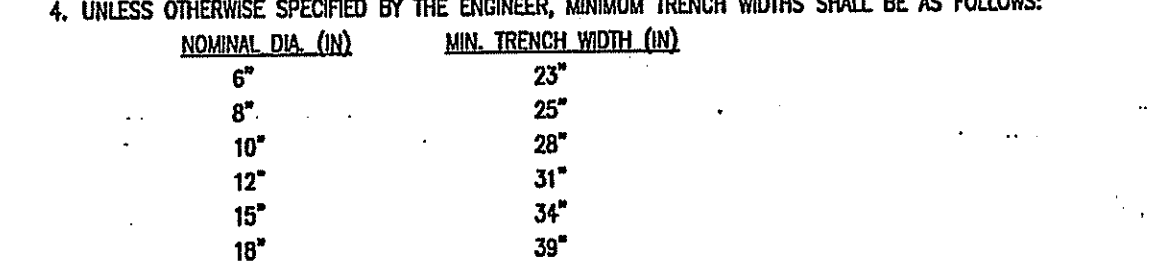
NOTES 1 THROUGH 3 SHALL BE INCLUDED ON THE PROPERTY DEED.

ADS PIPE INSTALLATION NOTES:
1. **FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A STABLE DEPTH AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS," LATEST EDITION; AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A WOVEN GEOTEXTILE FABRIC.
2. **BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I, II, OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4" TO 24" DIA. & 6" FOR 30" TO 60" DIA.
3. **HAUNCHING AND INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I, II, OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
4. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS:

NOMINAL DIA. (IN)	MIN. TRENCH WIDTH (IN)
6"	23"
8"	25"
10"	28"
12"	31"
15"	34"
18"	39"

5. **MINIMUM COVER:** RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE SUMMARIZED IN THE FOLLOWING TABLE. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TAKEN FROM THE TOP OF PIPE TO THE GROUND SURFACE.

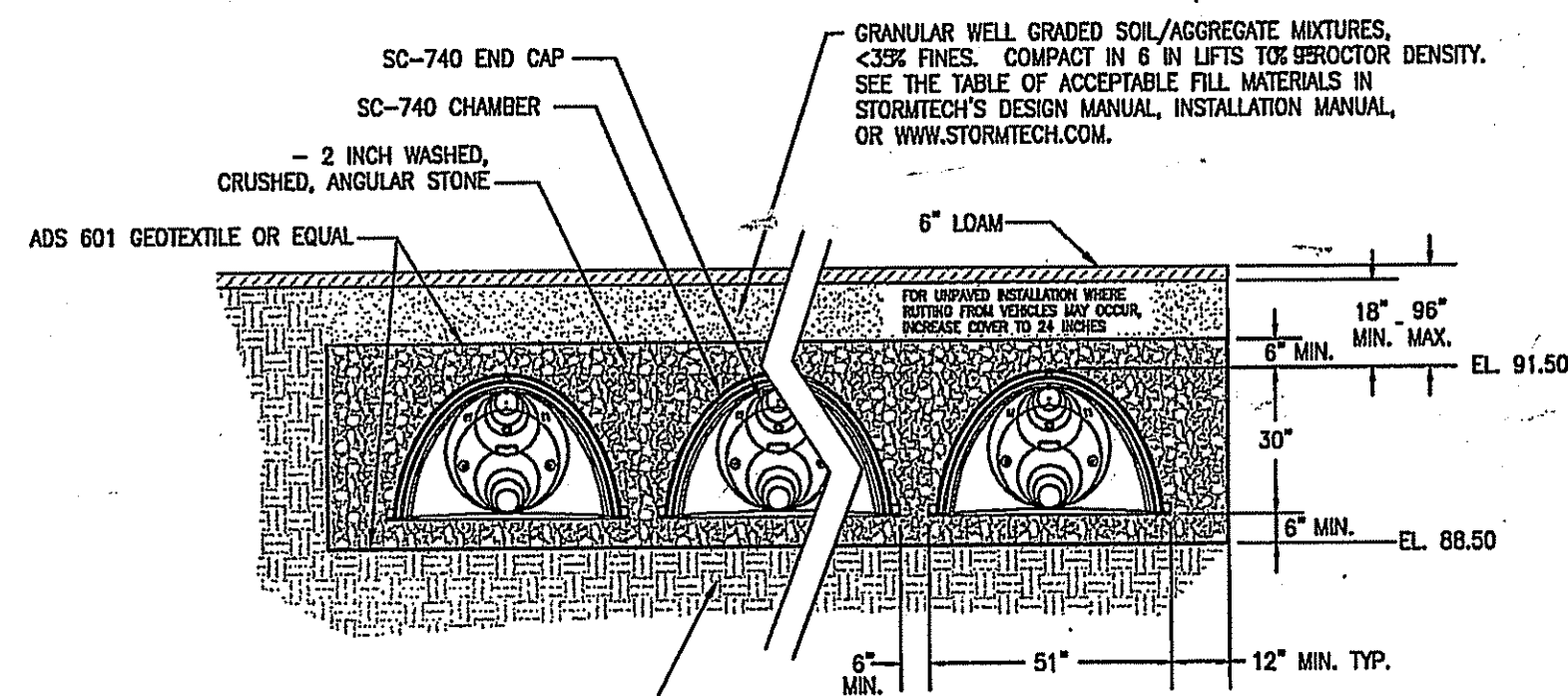
SURFACE LIVE LOADING CONDITION	MINIMUM RECOMMENDED COVER (IN)
H2S (FLEXIBLE PAVEMENT)	12"
H2S (RIGID PAVEMENT)	12"
HEAVY CONSTRUCTION	48"



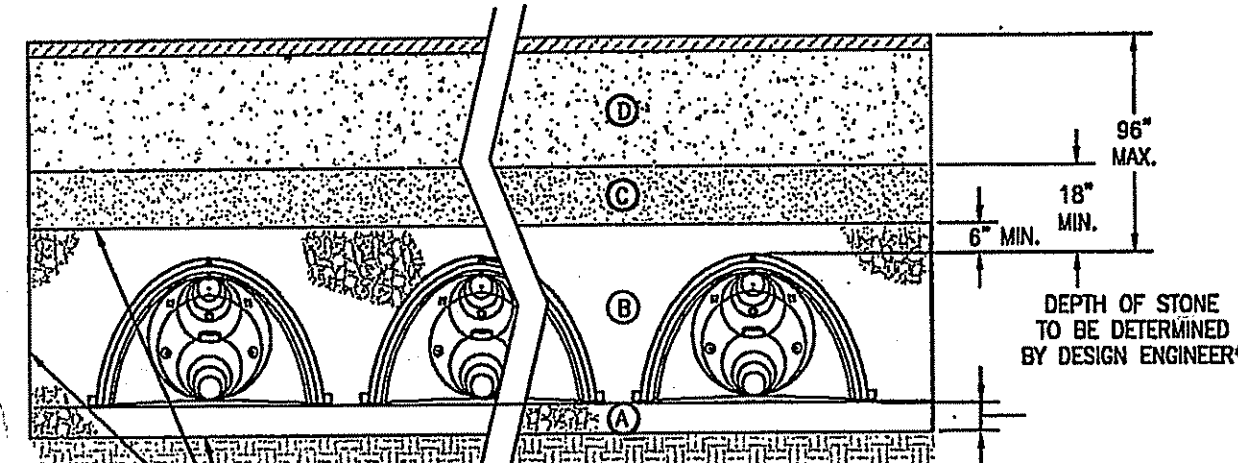
ISOLATOR CHAMBER ROW DETAIL
N.T.S.

UNDERGROUND INJECTION CONTROL SYSTEM NOTES:

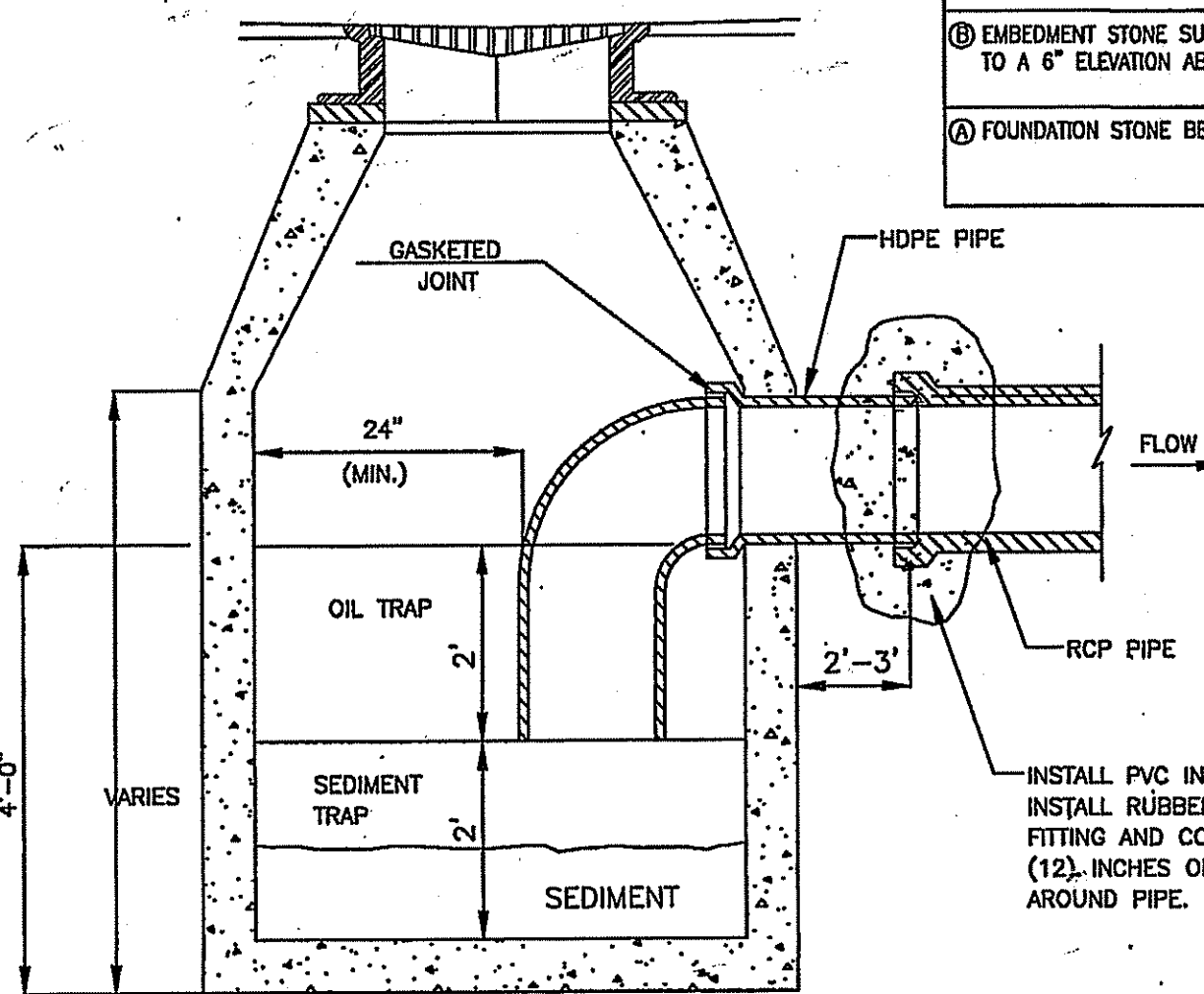
- 1) CATCH BASINS OF THE SUBSURFACE DISCHARGE SYSTEM SHALL BE NON-LEACHING WITH A MINIMUM SUMP DEPTH OF THREE FEET BELOW THE OUTLET INVERT, AND INCLUDE AN OIL-WATER SEPARATOR OF ADEQUATE CAPACITY THAT EXTENDS AT LEAST TWO FEET BELOW THE OUTLET INVERT. THE OTHER DRAINS SHALL BE NON-LEACHING AND PASS THROUGH AN OIL-WATER SEPARATOR OF ADEQUATE CAPACITY PRIOR TO DISCHARGE.
- 2) THE SEASONAL HIGH GROUND WATER TABLE ELEVATION IN THE AREA OF THE UIC SYSTEM WAS DETERMINED BY A RIDEI LICENSED CLASS IV SOIL EVALUATOR OR R.I. REGISTERED PROFESSIONAL ENGINEER, AND THE BOTTOM OF BED OF THE INFILTRATION AREA WAS AT LEAST THREE FEET OF VERTICAL SEPARATION FROM THE SEASONAL HIGH GROUNDWATER TABLE.
- 3) THE FILTRATION AREA SHALL BE LOCATED AT LEAST 400 FEET FROM PUBLIC DRINKING WATER WELLS.
- 4) THE FILTRATION AREA SHALL BE LOCATED AT LEAST 100 FEET FROM PRIVATE DRINKING WATER WELLS.
- 5) THE FILTRATION AREA SHALL BE LOCATED AT LEAST 200 FEET FROM SURFACE WATER SUPPLIES AND TRIBUTARIES.
- 6) THE FILTRATION AREA SHALL BE LOCATED AT LEAST 150 FEET FROM COASTAL PONDS.
- 7) THE FILTRATION AREA SHALL BE LOCATED AT LEAST 50 FEET FROM ALL NON-CRITICAL SURFACE WATER BODIES (ANY SURFACE WATER BODIES NOT INCLUDED IN ITEM #5).
- 8) THE FILTRATION AREA SHALL BE LOCATED AT LEAST 25 FEET FROM ALL OTHER DISCHARGE SYSTEMS, WHETHER EXISTING OR APPROVED FOR INSTALLATION, INCLUDING SEPTIC SYSTEMS AND CESSPOOLS.
- 9) THE FILTRATION AREA SHALL BE LOCATED AT LEAST 10 FEET FROM ALL BUILDING SLABS AND FOUNDATIONS.



STORMTECH STORMWATER SC-740 CHAMBER SYSTEM
CROSS SECTION FOR 288 CHAMBERS



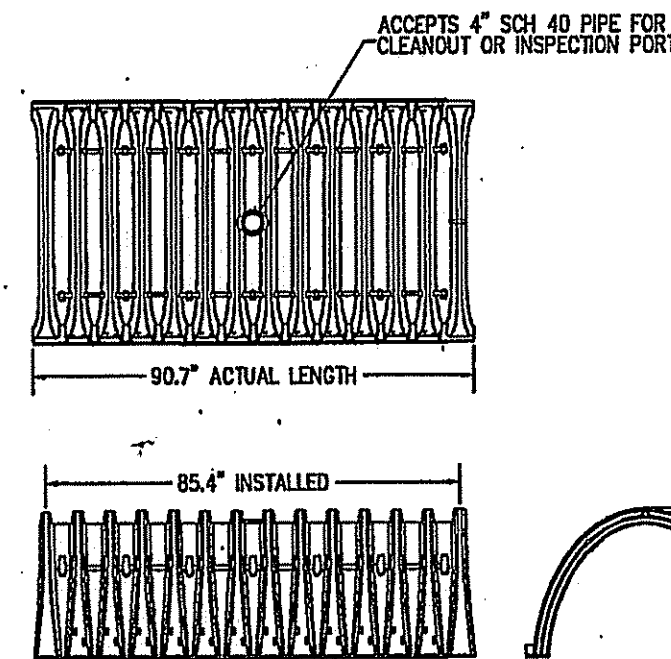
STORMTECH SC-310 AND SC-740 CHAMBER SYSTEMS
N.T.S.



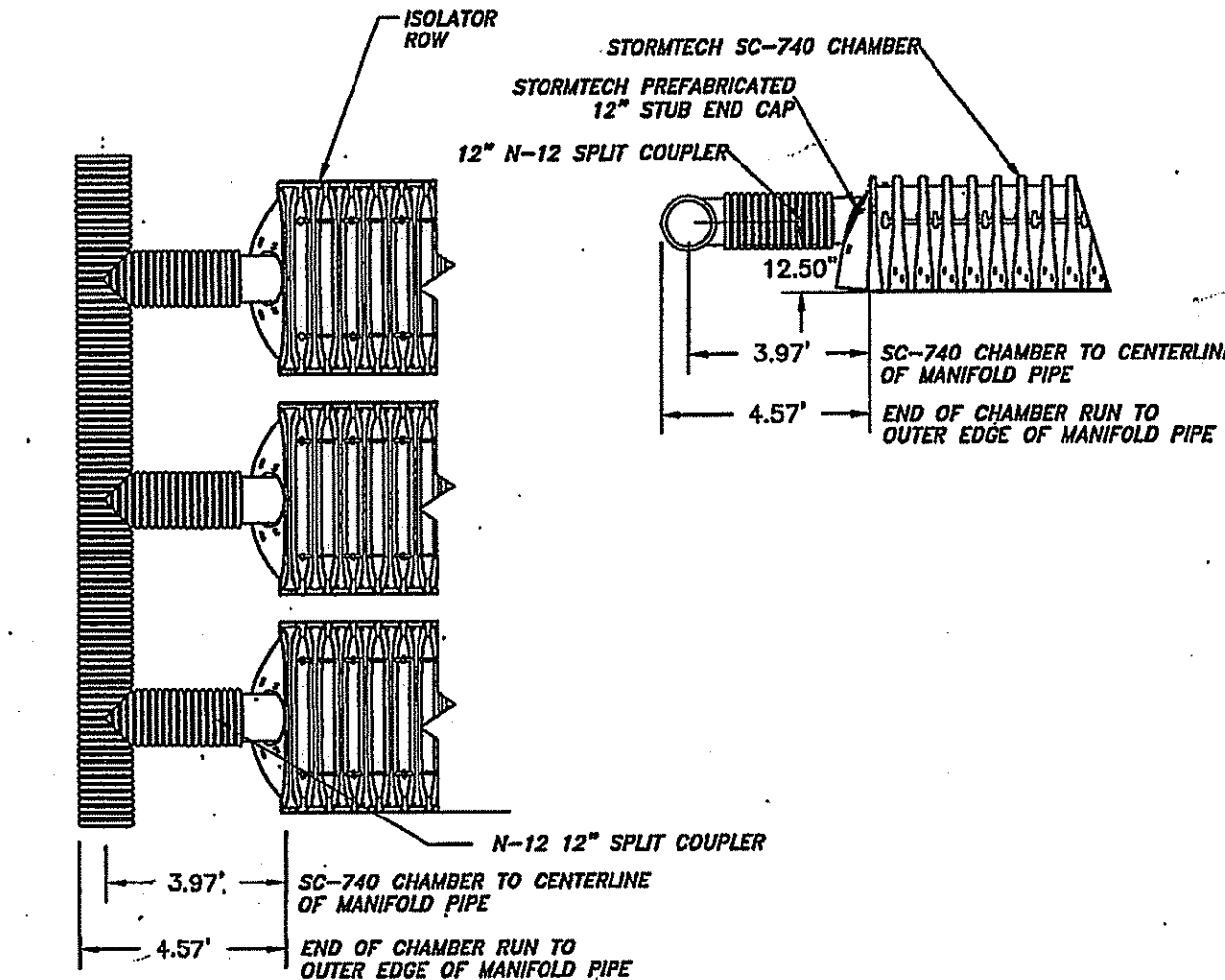
R.I. STD. 4.31 PRECAST CATCH BASIN WITH OIL AND WATER SEPARATOR
NOT TO SCALE

NOTES:

1. SEE PRECAST CATCH BASIN DETAIL FOR PRECAST CATCH BASIN REQUIREMENTS. THIS DETAIL SHOWS ONLY REQUIREMENTS FOR OIL AND WATER SEPARATOR, UNLESS SPECIFIED OTHERWISE BELOW.
2. AT CATCH BASINS WITH OIL AND WATER SEPARATOR:
 - a. DIAMETER SHALL BE SIX (6) FEET.
 - b. MINIMUM SUMP DEPTH OF FOUR (4) FEET.
 - c. OUTLET PIPES SHALL BE PROVIDED WITH AN ELBOW PIPE EXTENDING A MINIMUM OF TWO (2) FEET BELOW THE INVERT.

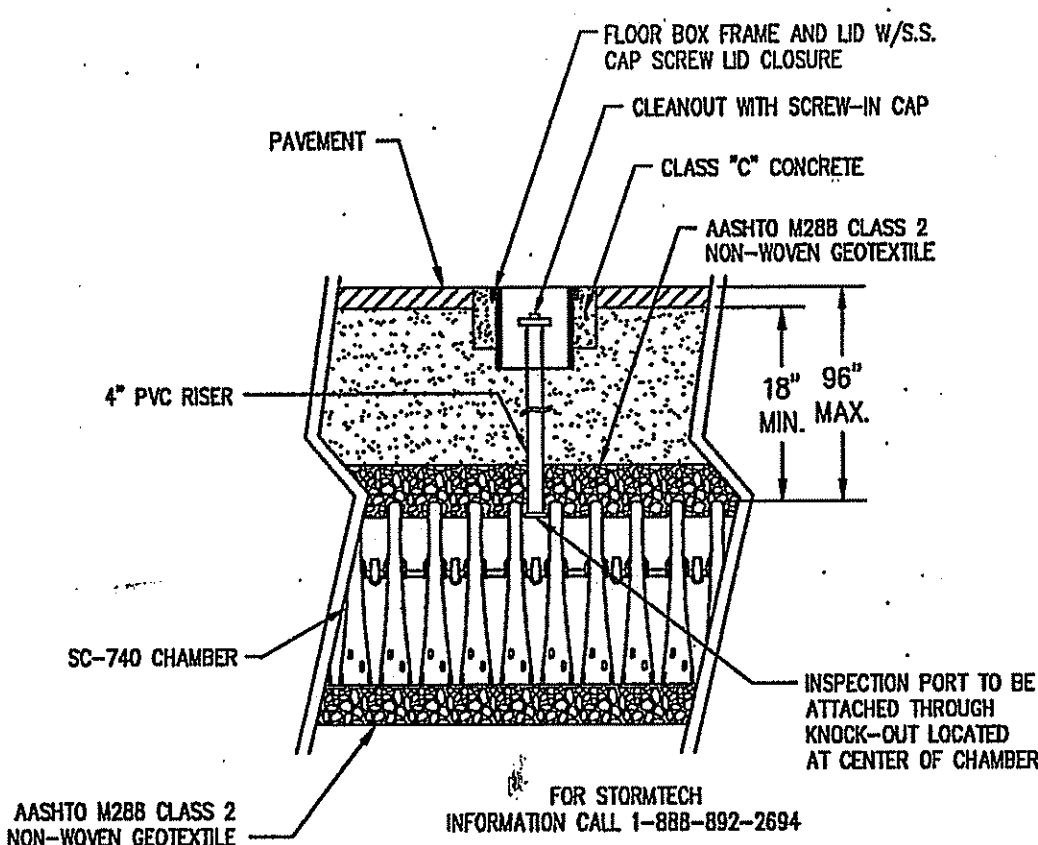


STORMTECH SC-740 CHAMBER
N.T.S.

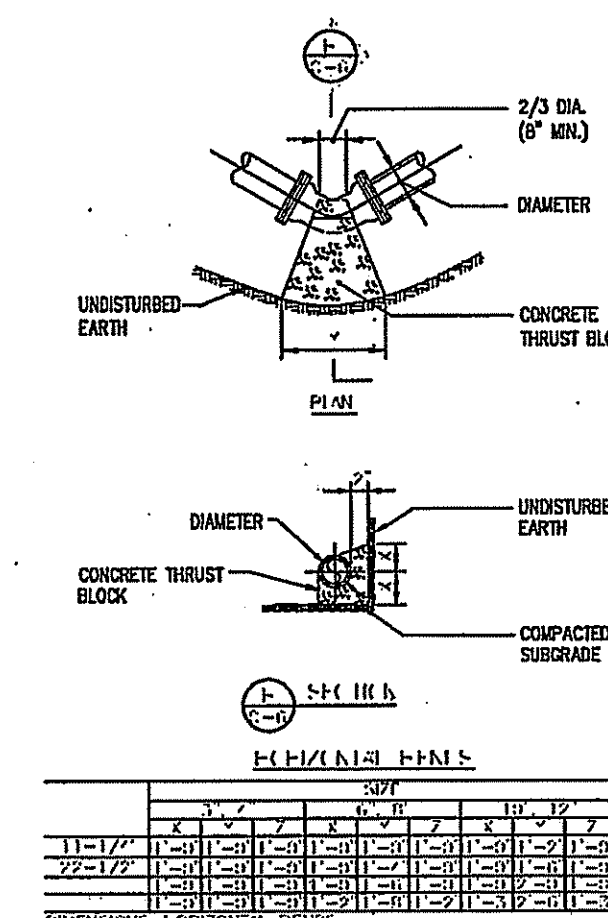


ADS N-12 12\"/>

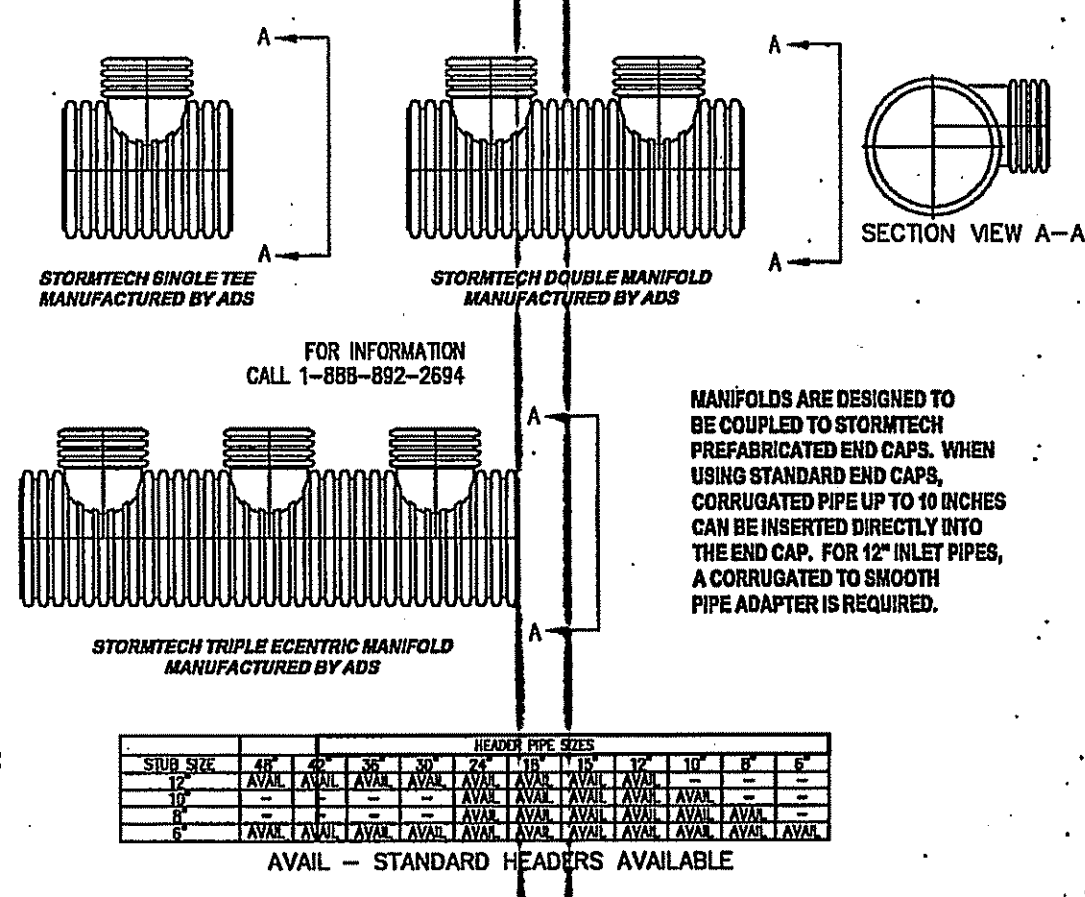
MATERIAL LOCATION	DESCRIPTION	ASHITO M43 DESIGNATION	ASHITO M145 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
① FILL MATERIAL FROM 18\"/>				
② FILL MATERIAL FOR 6\"/>				
③ EMBEDMENT STONE SURROUNDING AND TO A 6\"/>				
④ FOUNDATION STONE BELOW CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 4-2 INCH	3, 357, 4, 467, 5, 56, 57	N/A	NO COMPACTION REQUIRED
	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 4-2 INCH	3, 357, 4, 467, 5, 56, 57	N/A	PLATE COMPACT OR ROLL TO ACHIEVE A 95 STANDARD PROCTOR DENSITY



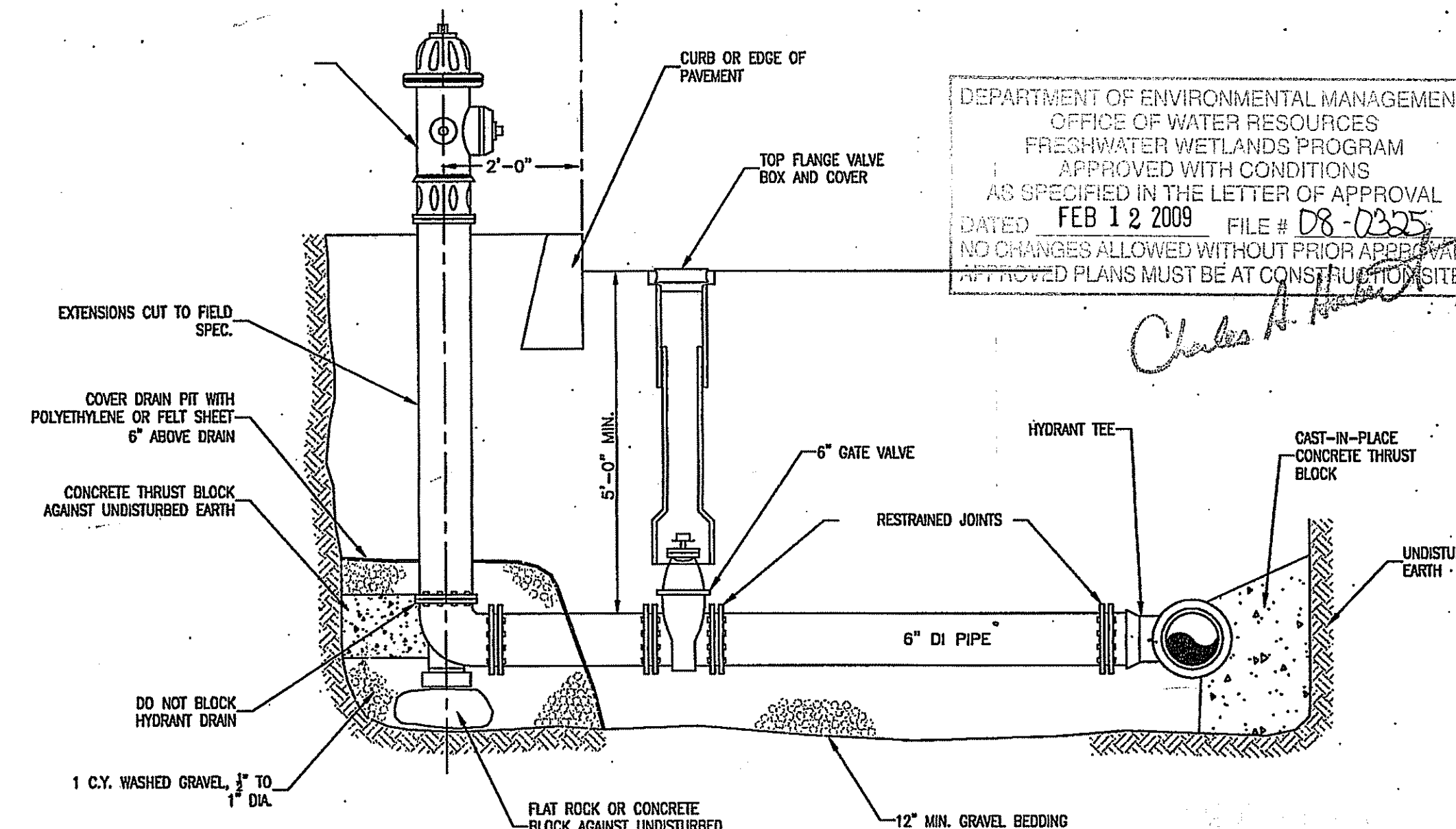
STORMTECH SC-740 CHAMBER SYSTEM INSPECTION PORT DETAIL
N.T.S.



HORIZONTAL THRUST BLOCK DETAILS
N.T.S.



ADS N-12 HEADER FITTINGS
N.T.S.



TYPICAL FIRE HYDRANT BRANCH ASSEMBLY
N.T.S.

NO.	DATE	REVISION
1	12-10-08	PAPA COMMENTS
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BRIAN P. THALMANN
Site/Civil Engineers • Land Planners
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Hotel Development
944 Douglas Pike
Prepared for:
Cedar Swamp Realty
23 Business Park Drive
Smithfield
date: Aug-2008

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