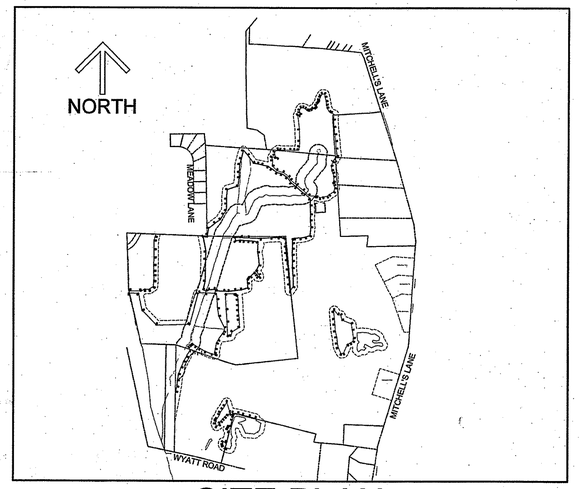
THE WEST COURSE

NEWPORT NATIONAL GOLF COURSE

MIDDLETOWN, RHODE ISLAND

RIDEM PRELIMINARY DETERMINATION APPLICATION

JULY 2005



SITE PLAN

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

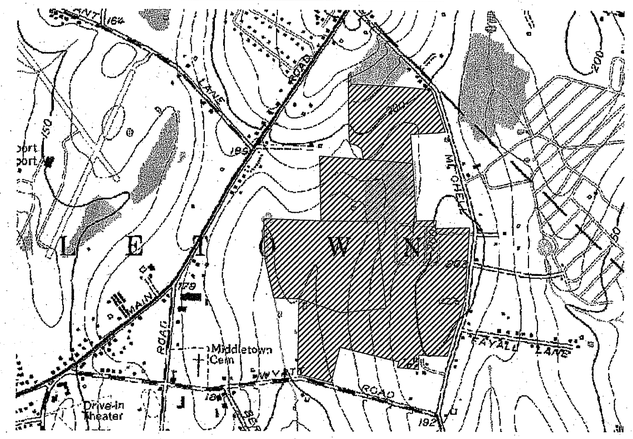
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 27 2007 FILE # 07-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
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W. Joseph Casey

DRAWING INDEX

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IRRIGATION POND X-SECTIONS	SHEETS 30a & 30b
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DRAINAGE DETAILS	SHEETS 32-33
SITE DETAILS	SHEETS 34-35
GOLF COURSE DETAILS	SHEET 36
CONSTRUCTION NOTES	SHEETS 37-38

A. ERIC OFFENBERG
7/18/05
No. 7866
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

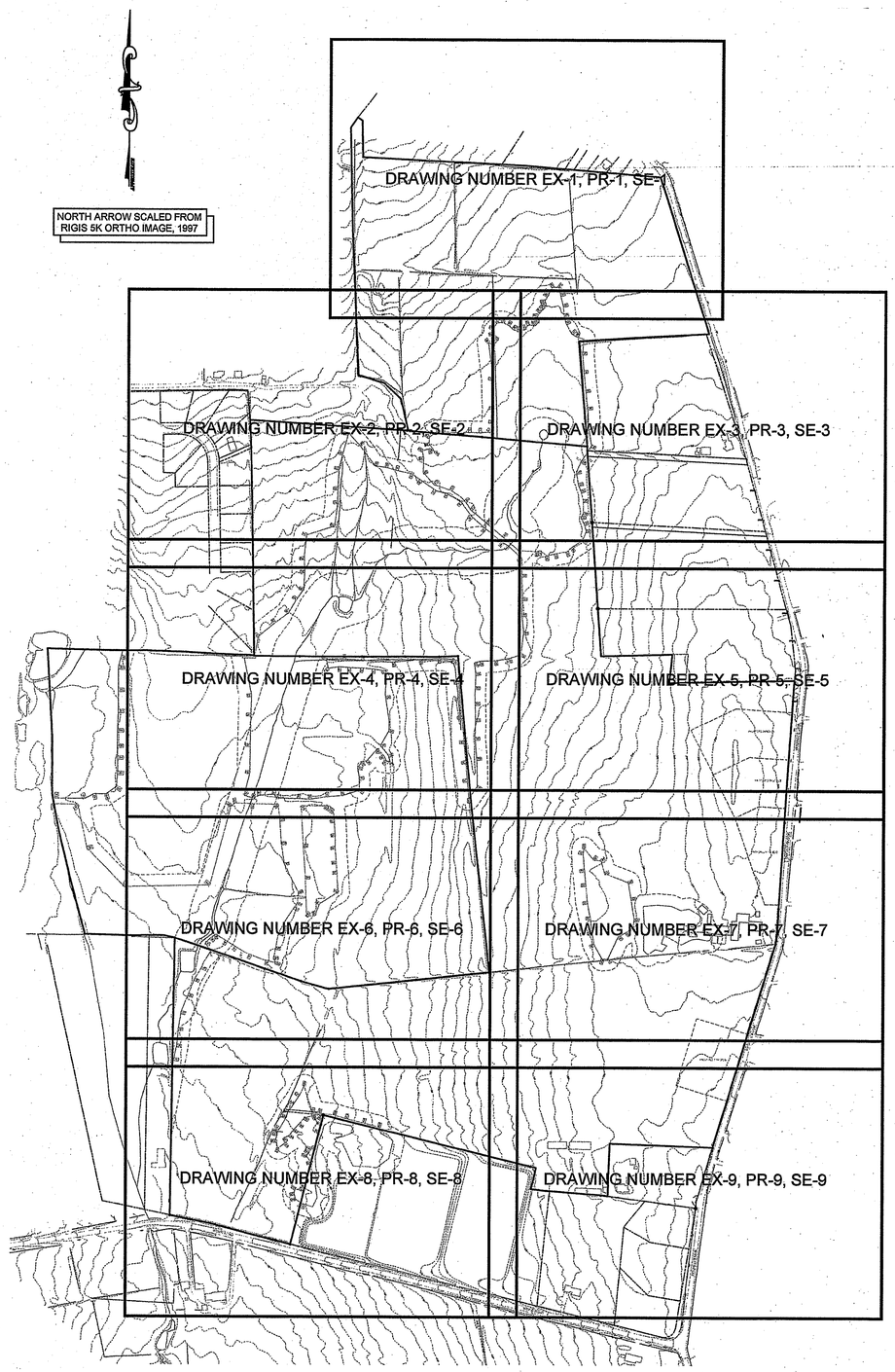
LOCUS MAP



NORTHEAST ENGINEERS AND CONSULTANTS, INC.

42 VALLEY ROAD
MIDDLETOWN, RHODE ISLAND 02842
PHONE: (401) 849-0810

MAY 25 2006



PROPERTY NOTES

1. EXISTING TOPOGRAPHIC INFORMATION TAKEN FROM DIGITAL PHOTOGRAMMETRIC MAPPING BY AEROTECH INTERNATIONAL. PHOTOGRAPH TAKEN APRIL 14, 1997 AND COMPILED DECEMBER 16, 2001.

2. PROPERTY LINE INFORMATION OF AP 123, LOT 12 AND AP 124, LOTS 29 AND 5 TAKEN FROM CLASS 1 PROPERTY SURVEY PREPARED BY ROGER LIZOTTE, PLS, DATED 10AUG04, REVISED OCT04.

3. ALL OTHER PROPERTY LINE INFORMATION TAKEN FROM PLANS PRODUCED BY NARRAGANSETT ENGINEERING, INC. OR ASSESSORS TAX MAPS. THESE PROPERTY LINES SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- OVERALL SITE PROPERTY LINE
- PROPOSED PROPERTY LINES
- ABUTTING PROPERTY LINES
- EXISTING TOPOGRAPHY (-100-)
- PROPOSED TOPOGRAPHY (-200-)
- BRUSHLINE
- STONEWALLS
- EASEMENTS
- STREAM LINE/POND EDGE
- EXISTING PATH/TRAIL
- DRAIN LINES (D)
- SEWER LINE (S 8)
- SEWER FORCE MAIN (SFM)
- ELECTRIC LINE (E)
- SOIL BOUNDARY
- SILT FENCE (S.F.)
- LIMIT OF DISTURBANCE
- SWALE
- WETLAND FLAG (20)
- SPOT ELEVATION x 100.0
- HAYBALE
- CATCHBASIN
- SEWER MANHOLE (S)
- DRAIN MANHOLE (D)
- DRILL HOLE
- UTILITY POLE
- REBAR / IRON PIPE
- WETLAND EDGE

SOIL TYPES

NeA, NeB, NeC: NEWPORT SILT LOAM
PmA, PmB: PITTSTOWN SILT LOAM
Se: STISSING SILT LOAM
Ma: MANSFIELD MUCKY SILT LOAM

1. THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE GOVERNMENT OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING THE WORKS.

2. 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 MIDDLETOWN AND THE LATEST EDITION AND ADDENDA OF THE RI DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

3. DEVIATIONS OR CHANGES FROM THESE PLANS WILL NOT BE ALLOWED UNLESS APPROVED BY THE APPROPRIATE AGENCIES AND ENGINEER.

4. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO BE MADE TO PLANS IF NECESSARY. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR IS REQUIRED TO VERIFY THE LOCATION OF ALL SERVICES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER UTILITIES NOT ON RECORD OR SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REPAIR AND REINSTATEMENT OF UTILITY SERVICES DAMAGED DURING CONSTRUCTION.

5. RELOCATION OF ANY UTILITIES SHALL BE AT THE OWNER'S EXPENSE AND BE COMPLETED WITH THE UTILITY WORK. THE OWNER SHALL BE NOTIFIED AS TO THE RELOCATION REQUIRED PRIOR TO THE START OF CONSTRUCTION.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, WALKS, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.

7. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.

8. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT TO 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 FOR LIABILITY ARISING FROM "THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER."

9. THE STATE OF RHODE ISLAND STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION , REVISIONS OF 1971 AND ALL CURRENT ADDENDA, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF, AS IF ATTACHED HERETO.

GRAPHIC SCALE

300' 0 150' 300' 600' 1,200'

(in feet)
1 INCH = 300 FEET

MAY 25 2006

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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W. Joseph Casey

No.	Revision	Date	App.

Designed By: LES | Drawn by: CSM | Checked by:
Scale: 1" = 300' | Date: 03JAN04

Project Title:
NEWPORT NATIONAL GOLF CLUB
WEST COURSE
AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:
INDEX SHEET & LEGEND

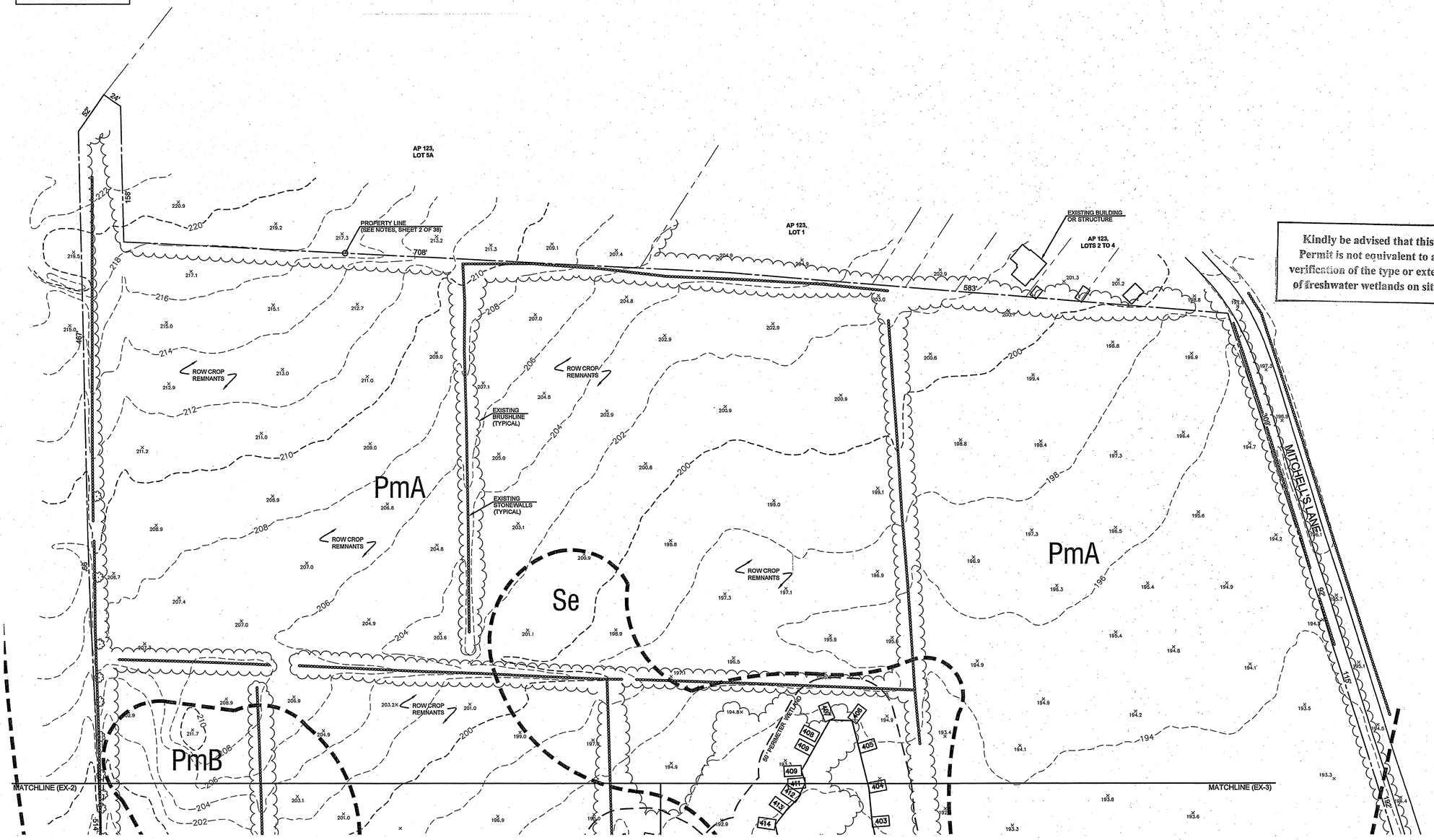
A. ERIC OFFENBERG
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: I-1
Sheet 2 of 38
Project Number: 04068.3
Survey Index: – –

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NORTH ARROW SCALED FROM RIGIS 5K ORTHO IMAGE, 1997



GRAPHIC SCALE

60' 0 30' 60' 120' 240'

(in feet)
1 INCH = 60 FEET

MAY 25 2006

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EX-1

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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W. Joseph Casey

FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.

No.	Revision	Date	App.

Designed By: LES | Drawn by: CSM | Checked by:
Scale: 1"= 60' | Date: 03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:
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PRELIMINARY DETERMINATION

Drawing Title:
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7-26-05
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CIVIL

Drawing Number: EX-1
Sheet 3 of 38
Project Number: 04068.3
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NORTH ARROW SCALED FROM RIGIS 5K ORTHO IMAGE, 1997

MATCHLINE (EX-1)

MATCHLINE (EX-4)

MATCHLINE (EX-3)

EXISTING BUILDING OR STRUCTURE

EXISTING BUILDING OR STRUCTURE

EXISTING BUILDING OR STRUCTURE

EXISTING ACCESS TRACK (10' WIDE)

EXISTING PATH (10' WIDE)

EXISTING PATH (10' WIDE)

EXISTING 15' EASEMENT

EXISTING BRUSHLINE (TYPICAL)

EXISTING STONEWALLS (TYPICAL)

PROPERTY LINE (SEE NOTES, SHEET 2 OF 38)

AP 118 LOT 106

AP 118 LOT 107

AP 118 LOT 108

AP 118 LOT 109

AP 118 LOT 110

AP 118 LOT 111

AP 118 LOT 26

MEADOW LANE

50' PERIMETER WETLAND

50' PERIMETER WETLAND

100' RIVERBANK WETLAND

ROW CROP REMNANTS

ROW CROP REMNANTS

ROW CROP REMNANTS

WOODED SWAMP WETLAND

WOODED SWAMP WETLAND

EXISTING SWALE

EXISTING SWALE

DENSE BRUSH

DENSE BRUSH

DENSE BRUSH

MEADOW

TRIBUTARY TO THE MAIDFORD RIVER (<10' WIDE)

PmA

PmB

Se

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

GRAPHIC SCALE

60' 0 30' 60' 120' 240'

(in feet)

1 INCH = 60 FEET

MAY 25 2006

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EX-2

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W. Joseph Casey

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No.	Revision	Date	App.

Designed By: LES | Drawn by: CSM | Checked by:

Scale: 1" = 60' | Date: 03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE
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MIDDLETOWN, RHODE ISLAND

Client/Owner:

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BOSTON, MA 02109

Issued for:

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Drawing Title:

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No. 7866
REGISTERED PROFESSIONAL ENGINEER
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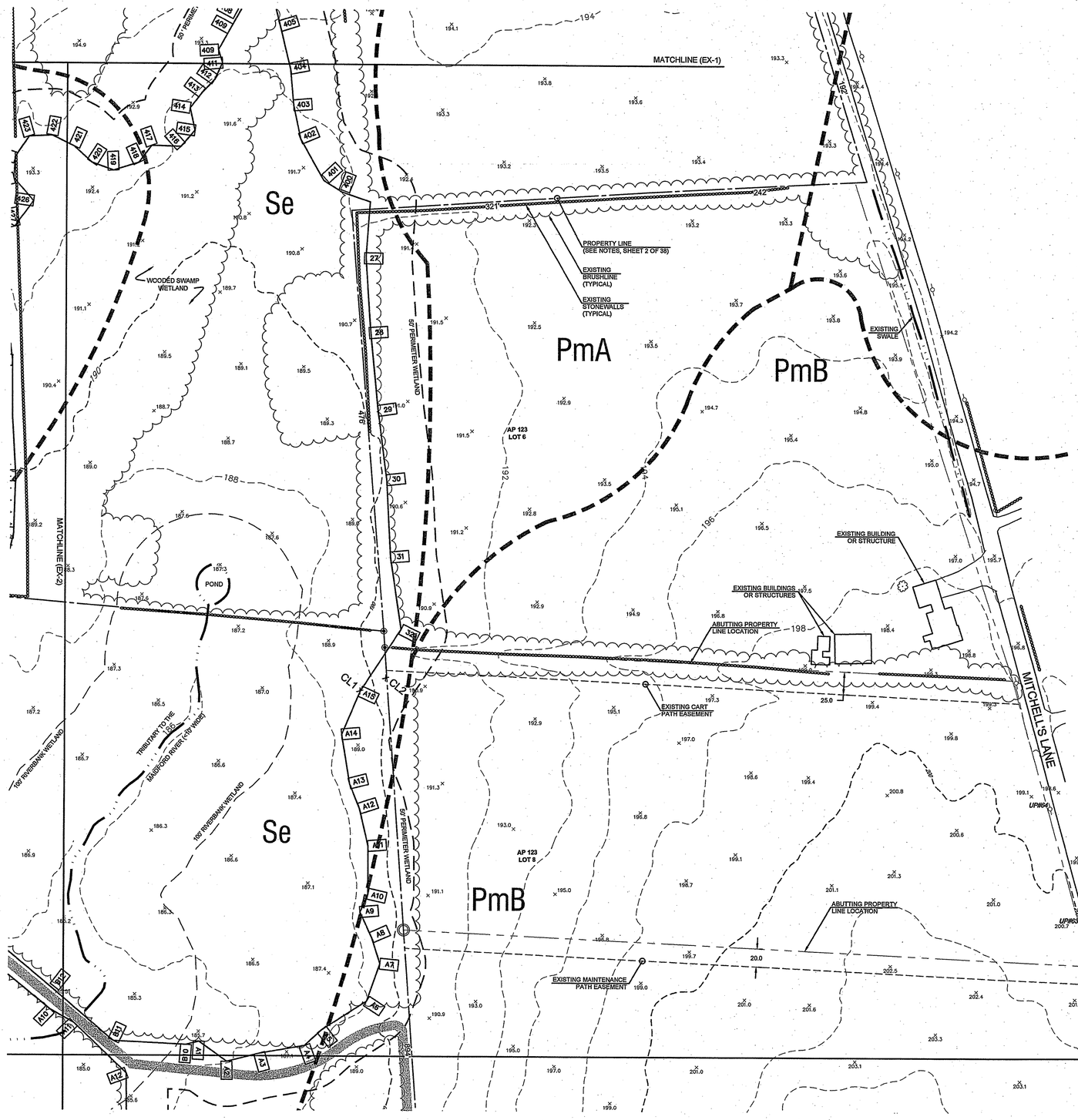
Drawing Number: EX-2

Sheet 4 of 38

Project Number: 04068.3

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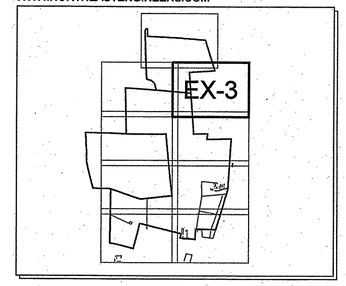
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W. Joseph Casey

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No.	Revision	Date	App.

Designed By:	LES	Drawn by: CSM	Checked by:
Scale:	1" = 60'	Date:	03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
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Client/Owner:
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BOSTON, MA 02109

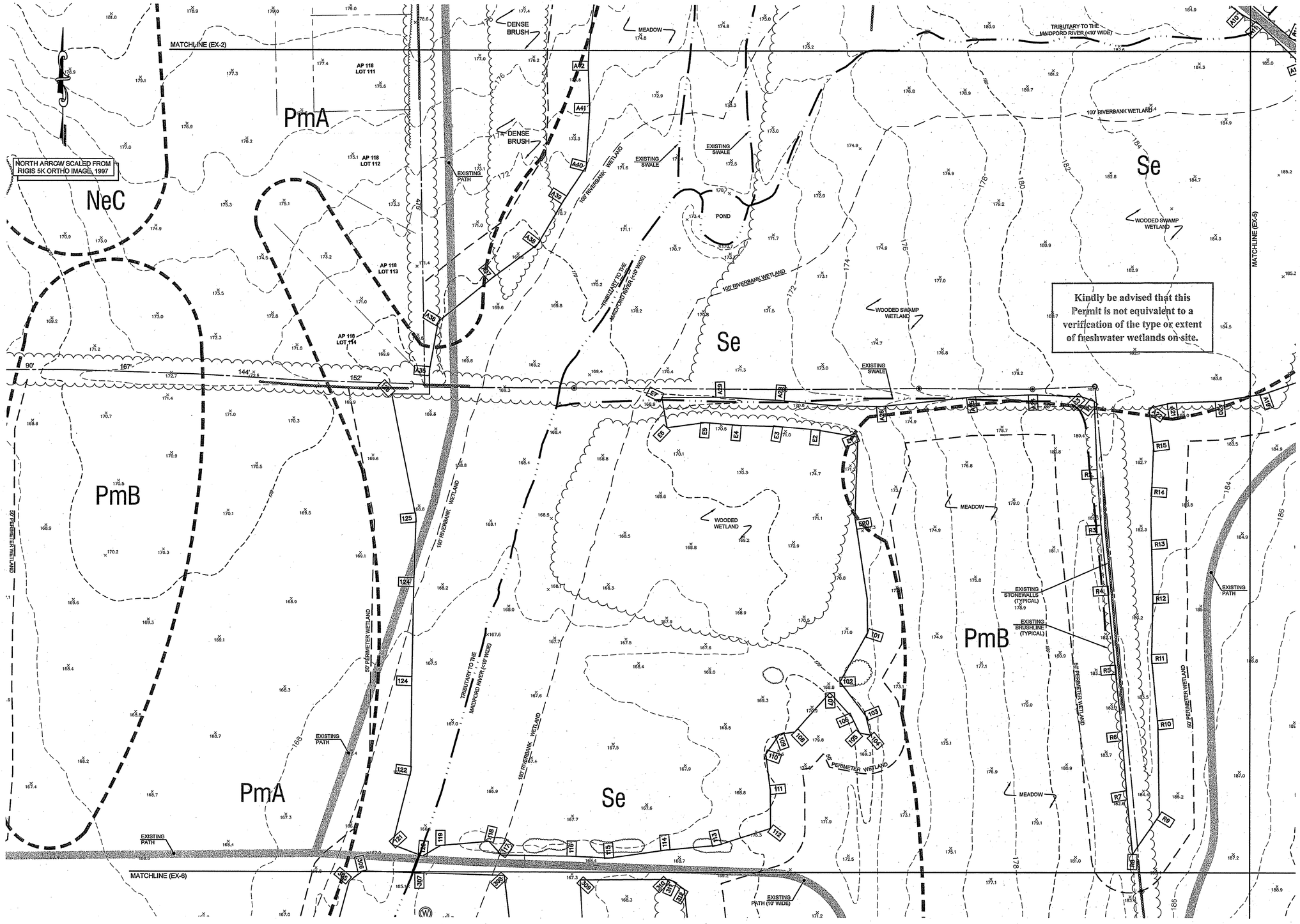
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Drawing Number: EX-3
Sheet 5 of 38
Project Number: 04068.3
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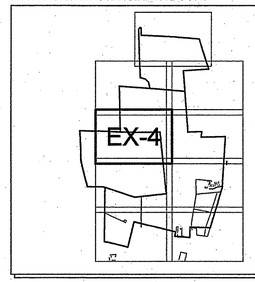


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W. Joseph Casey

FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.

No.	Revision	Date	App.

Designed By:	LES	Drawn by:	CSM	Checked by:	
Scale:	1" = 60'	Date:	03JAN05		

Project Title:

NEWPORT NATIONAL GOLF CLUB
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MIDDLETOWN, RHODE ISLAND

Client/Owner:

MR4A-JV LIMITED PARTNERSHIP
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BOSTON, MA 02109

Issued for:

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
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Drawing Title:

EXISTING CONDITIONS

A. ERIC OFFENBERG 7/26/05 No. 7866 REGISTERED PROFESSIONAL ENGINEER CIVIL

Drawing Number: EX-4

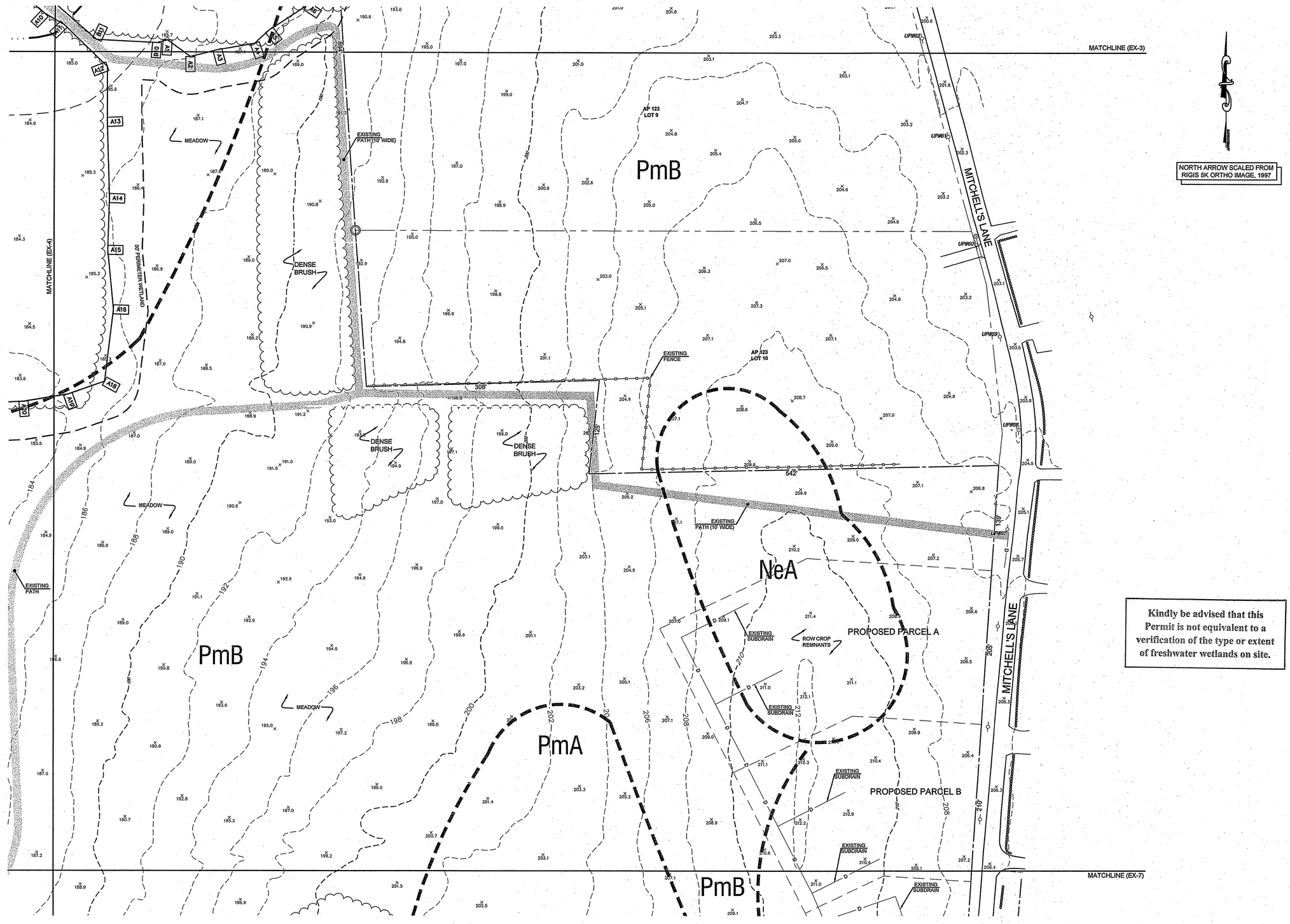
Sheet 6 of 38

Project Number: 04068.3

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NORTH ARROW SCALED FROM RIGIS 5K ORTHO IMAGE, 1997

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GRAPHIC SCALE

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(in feet)

1 INCH = 60 FEET

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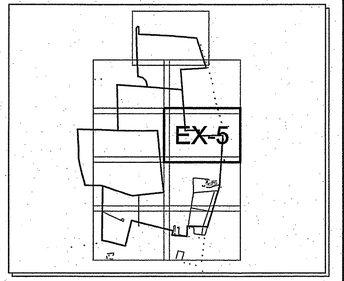
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W. Joseph Casey

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Issued for:

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:

EXISTING CONDITIONS

A. ERIC OFFENBERG
No. 7866
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

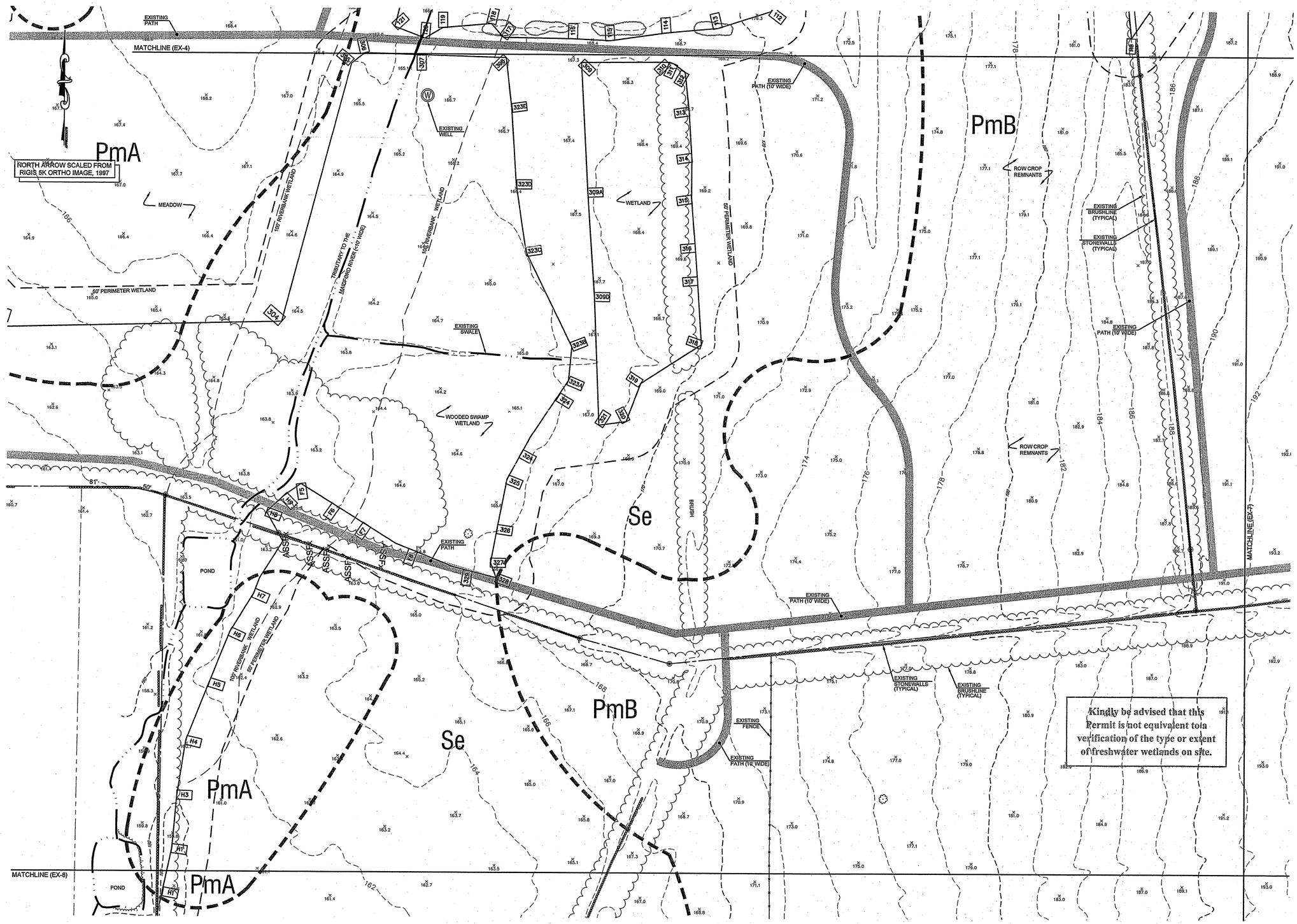
Drawing Number: EX-5

Sheet 7 of 38

Project Number: 04068.3

Survey Index: – –

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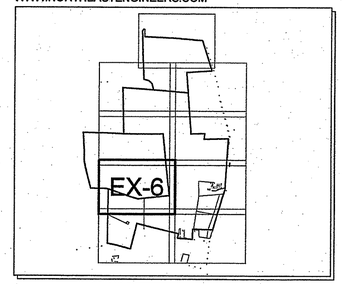


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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 2 7 2007 FILE # 07-0239
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Joseph Casey

FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.

No.	Revision	Date	App.

Designed By: LES | Drawn by: CSM | Checked by:
Scale: 1" = 60' | Date: 03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
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BOSTON, MA 02109

Issued for:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:
EXISTING CONDITIONS

A. ERIC OFFENBERG
No. 7866
REGISTERED PROFESSIONAL ENGINEER
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Drawing Number: EX-6
Sheet 8 of 38
Project Number: 04068.3
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EX-7

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W. Joseph Casey

FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.

No.	Revision	Date	App.
1	RIDEM WETLANDS DIVISION, COMMENTS	12/06	

Designed By: LES | Drawn by: CSM | Checked by:
Scale: 1" = 60' | Date: 03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
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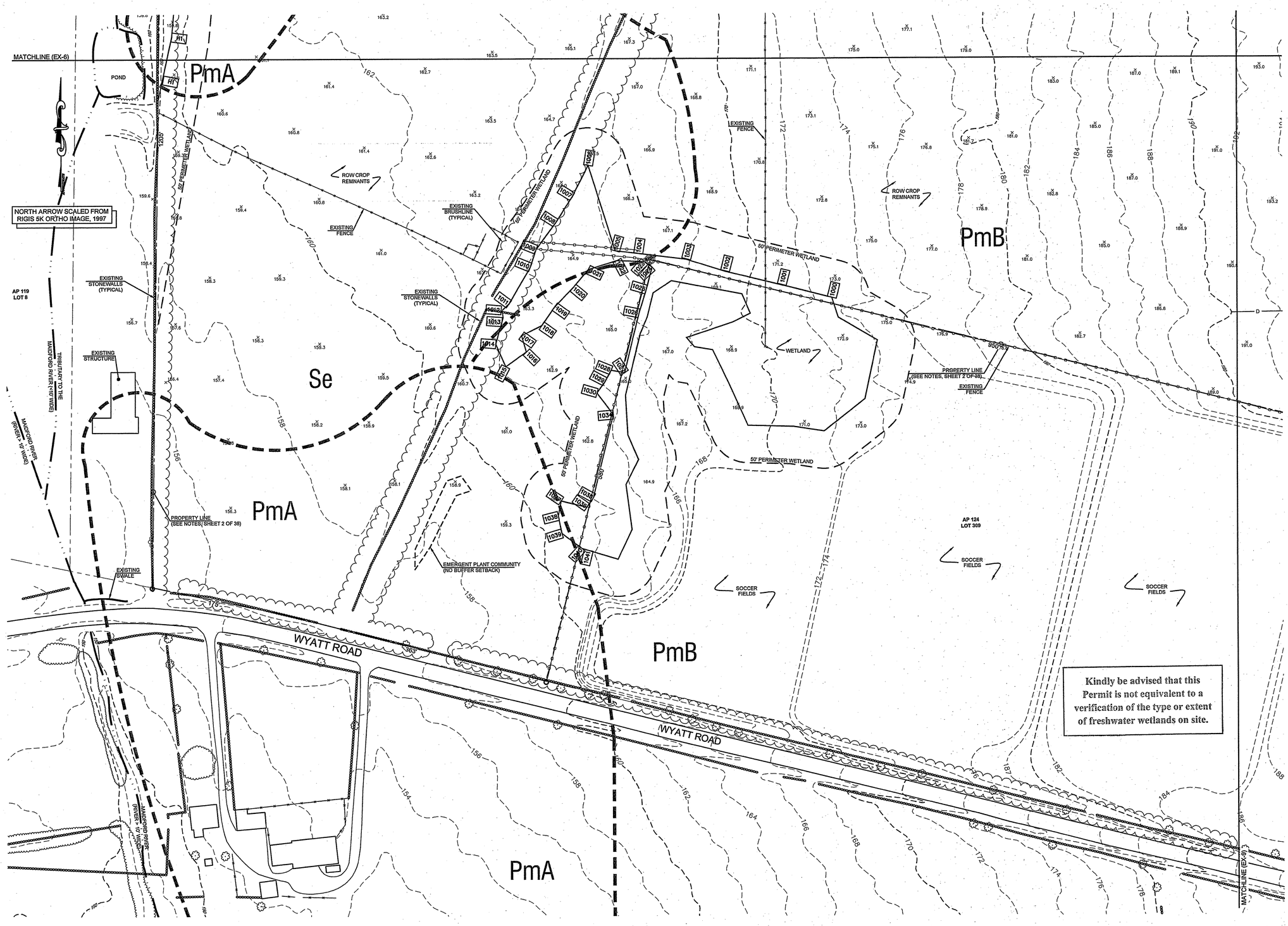
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RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
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Drawing Title:
EXISTING CONDITIONS

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Drawing Number: EX-7
Sheet 9 of 38
Project Number: 04068.3
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W. Joseph Casey

FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.

No.	Revision	Date	App.

Designed By: LES	Drawn by: CSM	Checked by:	
Scale: 1" = 60'	Date: 03JAN05		

Project Title:

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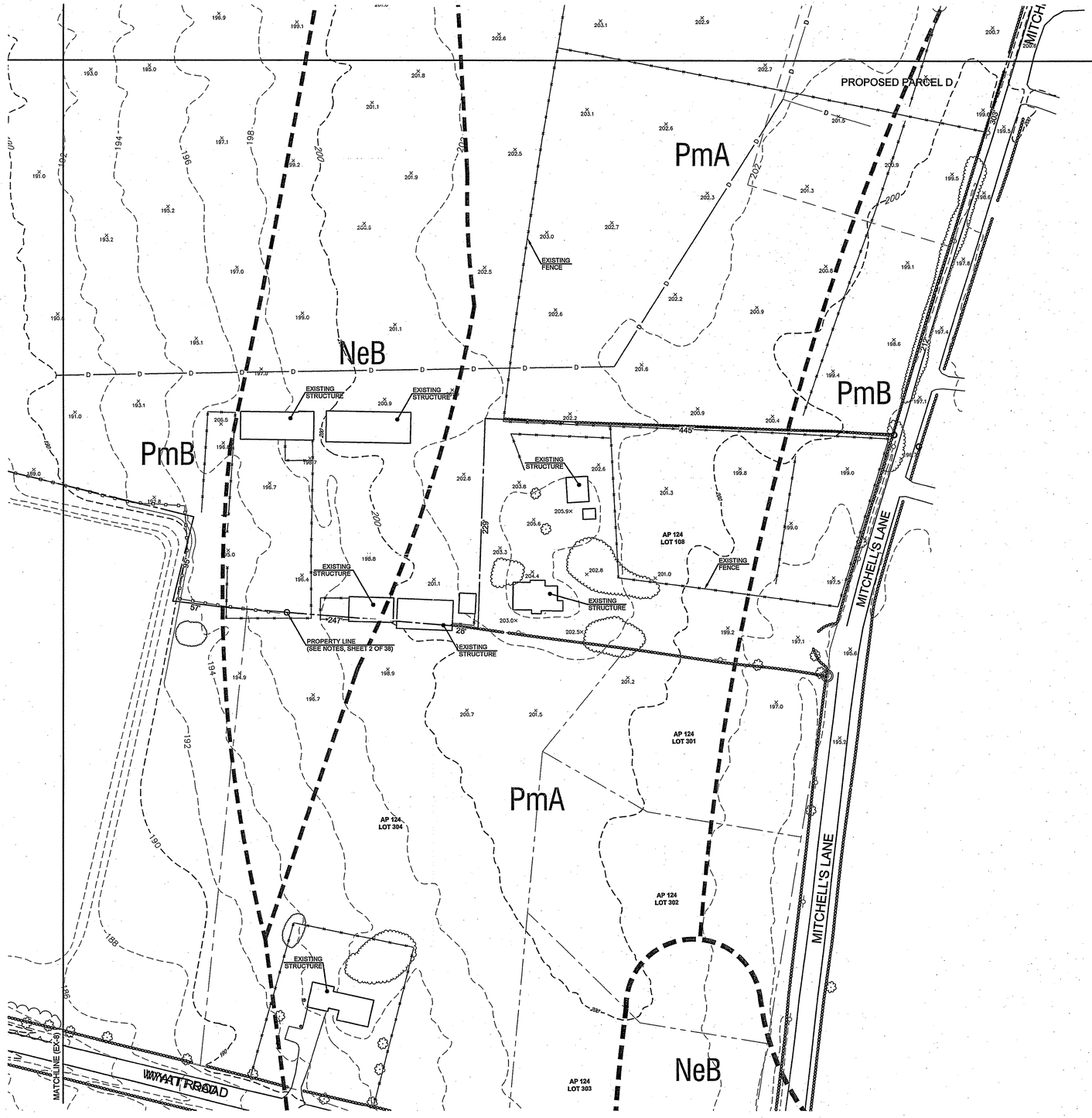
A. ERIC OFFENBERG
7/18/05
No. 7866
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Drawing Number: EX-8
Sheet 10 of 38
Project Number: 04068.3
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NORTH ARROW SCALED FROM RIGIS 5K ORTHO IMAGE, 1997

GRAPHIC SCALE

60' 0 30' 60' 120' 240'

(in feet)

1 INCH = 60 FEET

MAY 25 2006

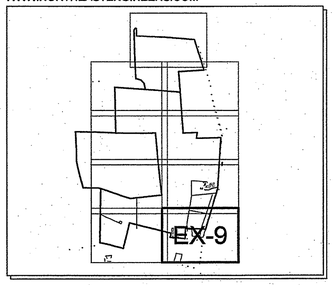
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W. Joseph Casey

FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.

No.	Revision	Date	App.

Designed By: LES | Drawn by: CSM | Checked by:
Scale: 1" = 60' | Date: 03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
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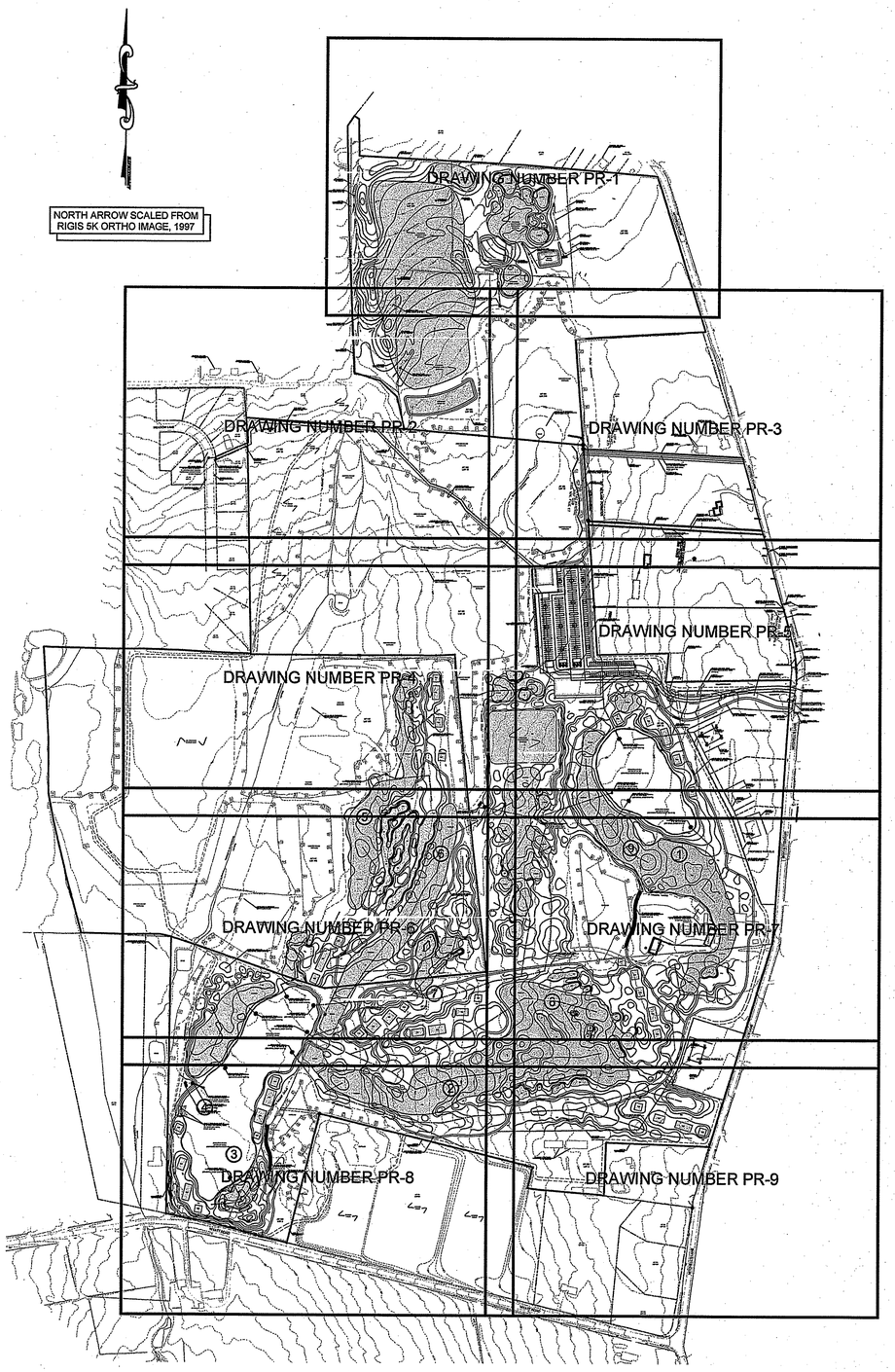
Drawing Title:
EXISTING CONDITIONS

A. ERIC OFFENBERG 7/10/06 No. 7866 REGISTERED PROFESSIONAL ENGINEER CIVIL

Drawing Number: EX-9
Sheet 11 of 38
Project Number: 04068.3
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PROPERTY NOTES

1. EXISTING TOPOGRAPHIC INFORMATION TAKEN FROM DIGITAL PHOTOGRAMMETRIC MAPPING BY AEROTECH INTERNATIONAL. PHOTOGRAPH TAKEN APRIL 14, 1987 AND COMPILED DECEMBER 16, 2001.

2. PROPERTY LINE INFORMATION OF AP 123, LOT 12 AND AP 124, LOTS 29 AND 5 TAKEN FROM CLASS 1 PROPERTY SURVEY PREPARED BY ROGER LIZOTTE, PLS, DATED 10AUG04, REVISED OCT04.

3. ALL OTHER PROPERTY LINE INFORMATION TAKEN FROM PLANS PRODUCED BY NARRAGANSETT ENGINEERING, INC. OR ASSESSORS TAX MAPS. THESE PROPERTY LINES SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- OVERALL SITE PROPERTY LINE
- PROPOSED PROPERTY LINES
- ABUTTING PROPERTY LINES
- EXISTING TOPOGRAPHY
- PROPOSED TOPOGRAPHY
- BRUSHLINE
- STONEWALLS
- EASEMENTS
- STREAM LINE/POND EDGE
- EXISTING PATH/TRAIL
- DRAIN LINES
- SEWER LINE
- SEWER FORCE MAIN
- ELECTRIC LINE
- SOIL BOUNDARY
- SILT FENCE
- LIMIT OF DISTURBANCE
- SWALE
- WETLAND FLAG
- SPOT ELEVATION
- HAYBALE
- CATCHBASIN
- SEWER MANHOLE
- DRAIN MANHOLE
- DRILL HOLE
- UTILITY POLE
- REBAR / IRON PIPE
- WETLAND EDGE

1. THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE GOVERNMENT OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING THE WORKS.

2. 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 MIDDLETOWN AND THE LATEST EDITION AND ADDENDA OF THE RI DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

3. DEVIATIONS OR CHANGES FROM THESE PLANS WILL NOT BE ALLOWED UNLESS APPROVED BY THE APPROPRIATE AGENCIES AND ENGINEER.

4. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO BE MADE TO PLANS IF NECESSARY. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR IS REQUIRED TO VERIFY THE LOCATION OF ALL SERVICES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER UTILITIES NOT ON RECORD OR SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REPAIR AND REINSTATEMENT OF UTILITY SERVICES DAMAGED DURING CONSTRUCTION.

5. RELOCATION OF ANY UTILITIES SHALL BE AT THE OWNER'S EXPENSE AND BE COMPLETED WITH THE UTILITY WORK. THE OWNER SHALL BE NOTIFIED AS TO THE RELOCATION REQUIRED PRIOR TO THE START OF CONSTRUCTION.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, WALKS, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.

7. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.

8. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT TO 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 FOR LIABILITY ARISING FROM "THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER."

9. THE STATE OF RHODE ISLAND STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION , REVISIONS OF 1971 AND ALL CURRENT ADDENDA, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF, AS IF ATTACHED HERETO.

GRAPHIC SCALE

300' 0 150' 300' 600' 1,200'

(in feet)

1 INCH = 300 FEET

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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W. Joseph Casey

No.	Revision	Date	App.

Designed By: LES | Drawn by: CSM | Checked by:
Scale: 1" = 300' | Date: 03JAN04

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:

MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:

INDEX SHEET & LEGEND
(FOR PROPOSED CONDITIONS)

A. ERIC OFFENBERG 7/10/07 No. 7866 REGISTERED PROFESSIONAL ENGINEER CIVIL

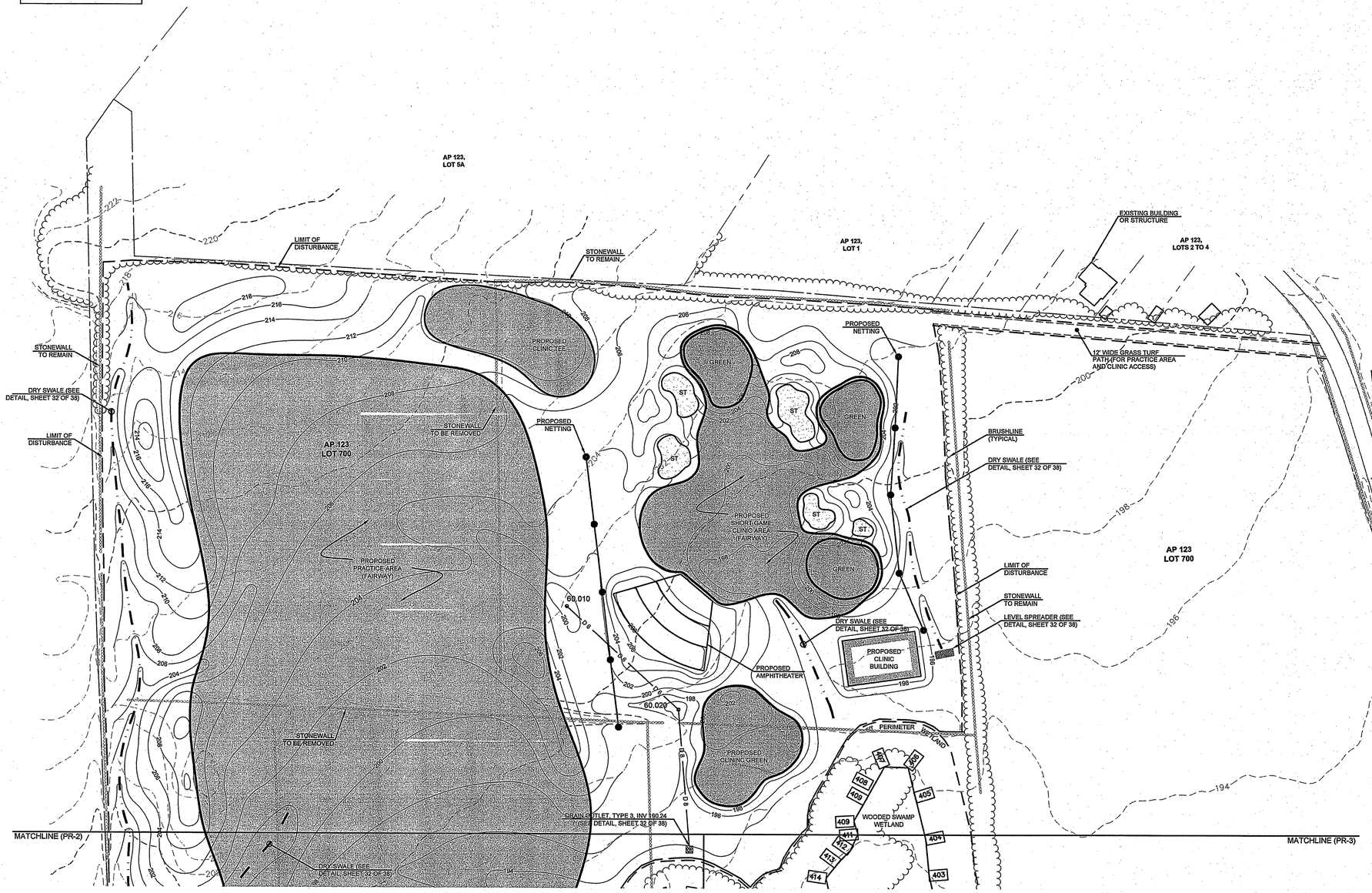
Drawing Number: I-2
Sheet 12A of 38
Project Number: 04068.3
Survey Index: – –

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NORTH ARROW SCALED FROM RIGIS 5K ORTHO IMAGE, 1997



GRAPHIC SCALE

60' 0 30' 60' 120' 240'

(in feet)

1 INCH = 60 FEET

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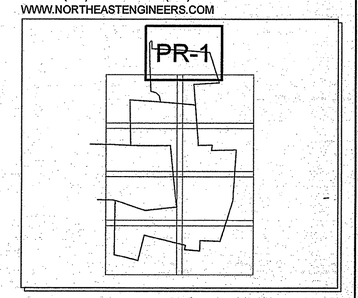
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NOTE

1. FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.

2. FOR DRAINAGE SCHEDULES, SEE SHEET 30 OF 38.

No.	Revision	Date	App.
1	RIDEM WETLANDS DIVISION, COMMENTS	12/06	

Designed By: LES	Drawn by: CSM	Checked by:	
Scale: 1"= 60'	Date: 03JAN05		

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Drawing Title:

PROPOSED CONDITIONS

Drawing Number:

PR-1

Sheet 12 of 38

Project Number:

04068.3

Survey Index:

– –

A. ERIC OFFENBERG
12/20/06
No. 7866
REGISTERED PROFESSIONAL ENGINEER
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NORTH ARROW SCALED FROM RIGIS 5K ORTHO IMAGE, 1997

MATCHLINE (PR-1)

DRAIN OUTLET, TYPE 3, INV 190.24 (SEE DETAIL, SHEET 32 OF 38)

DRY SWALE (SEE DETAIL, SHEET 32 OF 38)

STONEWALL TO BE REMOVED

LIMIT OF DISTURBANCE

PROPOSED PRACTICE AREA

PROPOSED PRACTICE AREA (FAIRWAY)

PROPOSED CLINIC TEE

50' PERIMETER WETLAND

AP 123 LOT 700

EXISTING BUILDING OR STRUCTURE

AP 118 LOT 106

AP 118 LOT 26

PROPERTY LINE (SEE NOTES)

DENSE BRUSH

MEADOW LANE

AP 118 LOT 107

AP 118 LOT 27

EXISTING SEWER MANHOLE

PROPOSED SEWER FORCE MAIN TO CONNECT TO EXISTING EAST MEADOW SUBDIVISION SEWER SYSTEM AT NEW MANHOLE

AP 118 LOT 25

EXISTING ELECTRIC SERVICE

AP 118 LOT 108

PROPOSED WATER SERVICE MAIN TO CONNECT TO EXISTING EAST MEADOW SUBDIVISION WATER SYSTEM AT NEW TEE

EXISTING WATER MAIN

15' WIDE UTILITY EASEMENT (EXISTING)

AP 123 LOT 12

AP 118 LOT 109

AP 118 LOT 110

AP 118 LOT 111

MATCHLINE (PR-4)

WOODED SWAMP WETLAND

100' RIVERBANK WETLAND

PROPOSED SEWER AND WATER CROSSING (10' PIPE SEPARATION)

APPROXIMATE EXTENT OF 100-YR FLOOD PLAIN

TRIBUTARY TO THE MAIDFORD RIVER (<10' WIDE)

MATCHLINE (PR-3)

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GRAPHIC SCALE

60' 0 30' 60' 120' 240'

(in feet)

1 INCH = 60 FEET

MAY 25 2006

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PR-2

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DATED JUN 27 2007 FILE # 07-0229
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Joseph Casey

NOTE

1. FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.
2. FOR DRAINAGE SCHEDULES, SEE SHEET 30 OF 38.

No.	Revision	Date	App.

Designed By:	LES	Drawn by: CSM	Checked by:
Scale:	1" = 60'	Date:	03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:

MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:

PROPOSED CONDITIONS

A. ERIC OFFENBERG
7/18/06
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

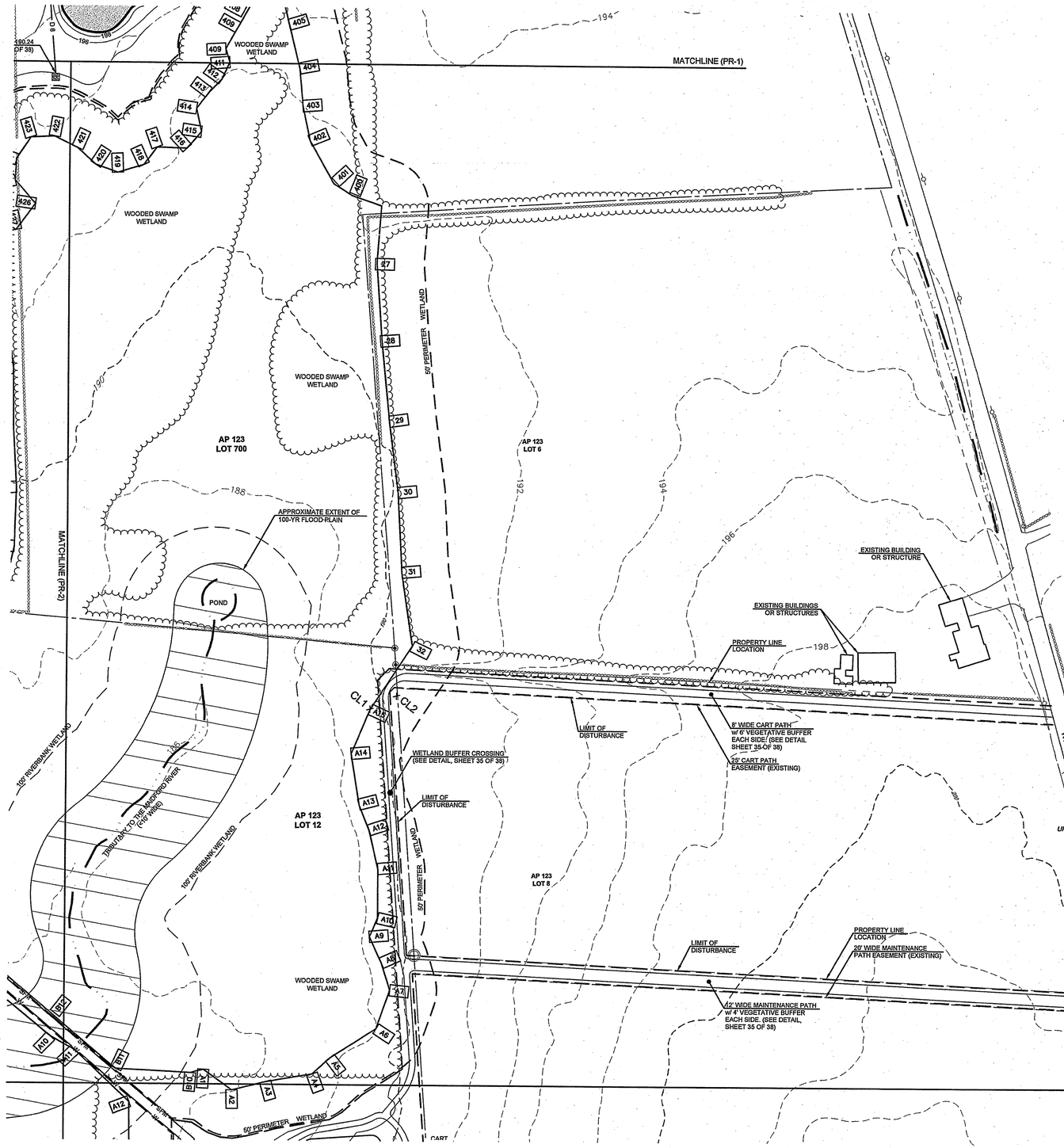
Drawing Number: PR-2

Sheet 13 of 38

Project Number: 04068.3

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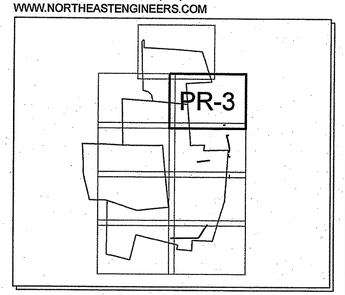
NORTH ARROW SCALED FROM RIGIS 5K ORTHO IMAGE, 1997

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NOTE

1. FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.
2. FOR DRAINAGE SCHEDULES, SEE SHEET 30 OF 38.

No.	Revision	Date	App.

Designed By: LES | Drawn by: CSM | Checked by:
Scale: 1" = 60' | Date: 03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Submitted for:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:
PROPOSED CONDITIONS

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 JUN 27 2007 FILE # 07-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Joseph Casey

A. ERIC OFFENBERG
7/18/05
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

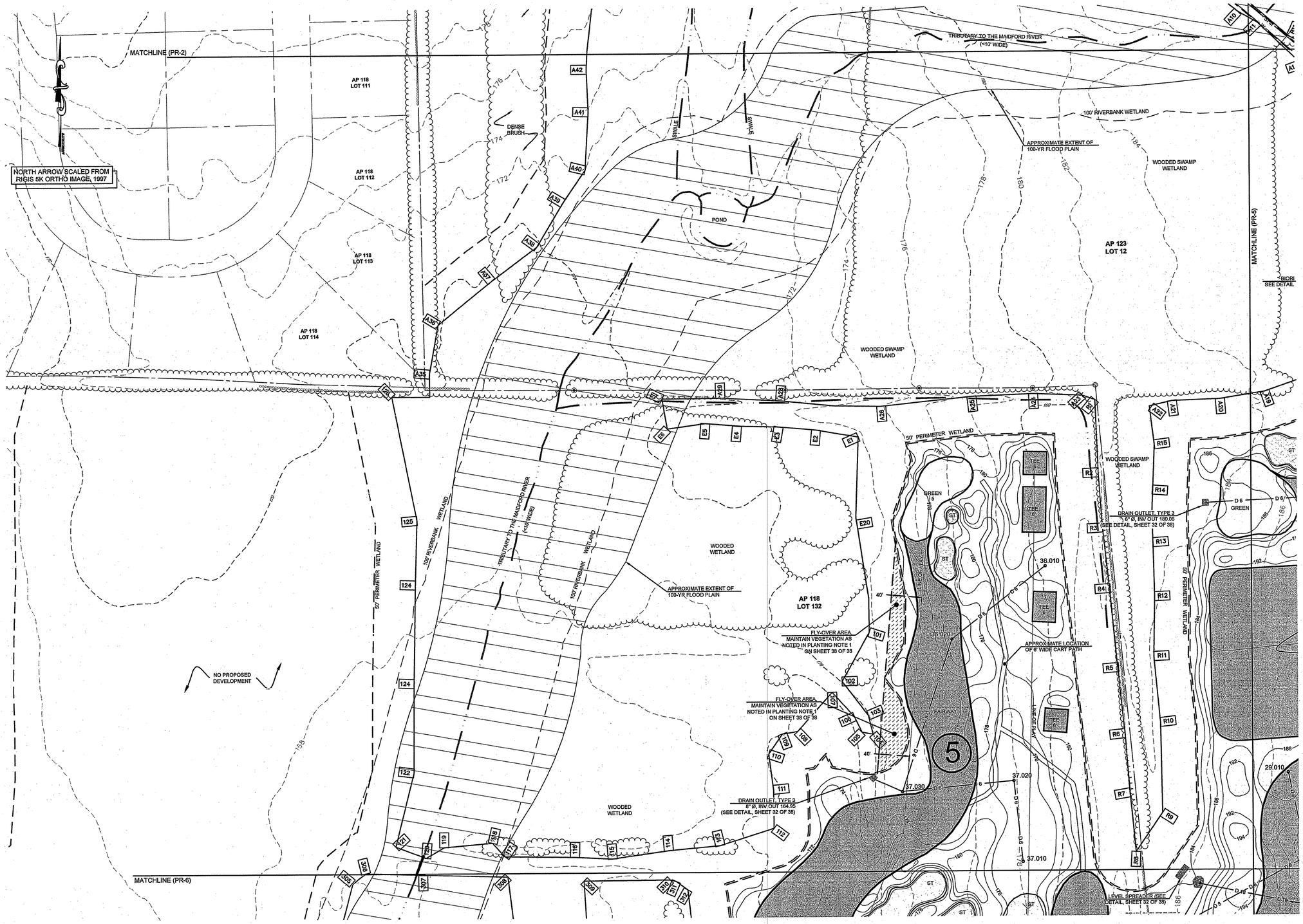
Drawing Number: PR-3
Sheet 14 of 38
Project Number: 04068.3
Survey Index: – –

GRAPHIC SCALE
60' 0 30' 60' 120' 240'
(in feet)
1 INCH = 60 FEET

RECEIVED MAY 25 2006

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GRAPHIC SCALE

60' 0 30' 60' 120' 240'

(in feet)

1 INCH = 60 FEET

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PR-4

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 2 7 2007 FILE # 07-0329
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Casey

NOTE

1. FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.

2. FOR DRAINAGE SCHEDULES, SEE SHEET 30 OF 38.

No.	Revision	Date	App.
1	RIDEM WETLANDS DIVISION, COMMENTS	12/06	

Designed By:	LES	Drawn by:	CSM	Checked by:	
Scale:	1" = 60'	Date:	03JAN05		

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:

MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:

~~PROPOSED CONDITIONS~~

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A. ERIC OFFENBERG
12-20-06
No. 7886
REGISTERED PROFESSIONAL ENGINEER CIVIL

Drawing Number: PR-4

Sheet 15 of 38

Project Number: 04068.3

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RECEIVED MAY 25 2006



NORTH ARROW SCALED FROM RIGIS 5K ORTHO IMAGE, 1997

GRAPHIC SCALE

60' 0 30' 60' 120' 240'

(in feet)

1 INCH = 60 FEET

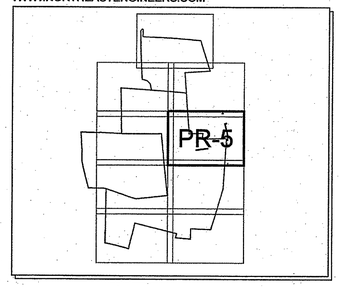
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NOTE

1. FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.

2. FOR DRAINAGE SCHEDULES, SEE SHEET 30 OF 38.

No.	Revision	Date	App.

Designed By:	LES	Drawn by:	CSM	Checked by:	
Scale:	1" = 60'	Date:	03JAN05		

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE
AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
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PRELIMINARY DETERMINATION

Drawing Title:

PROPOSED CONDITIONS

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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 JUN 27 2007 FILE # 07-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Casey

A. ERIC OFFENBERG
No. 7866
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

Drawing Number: PR-5

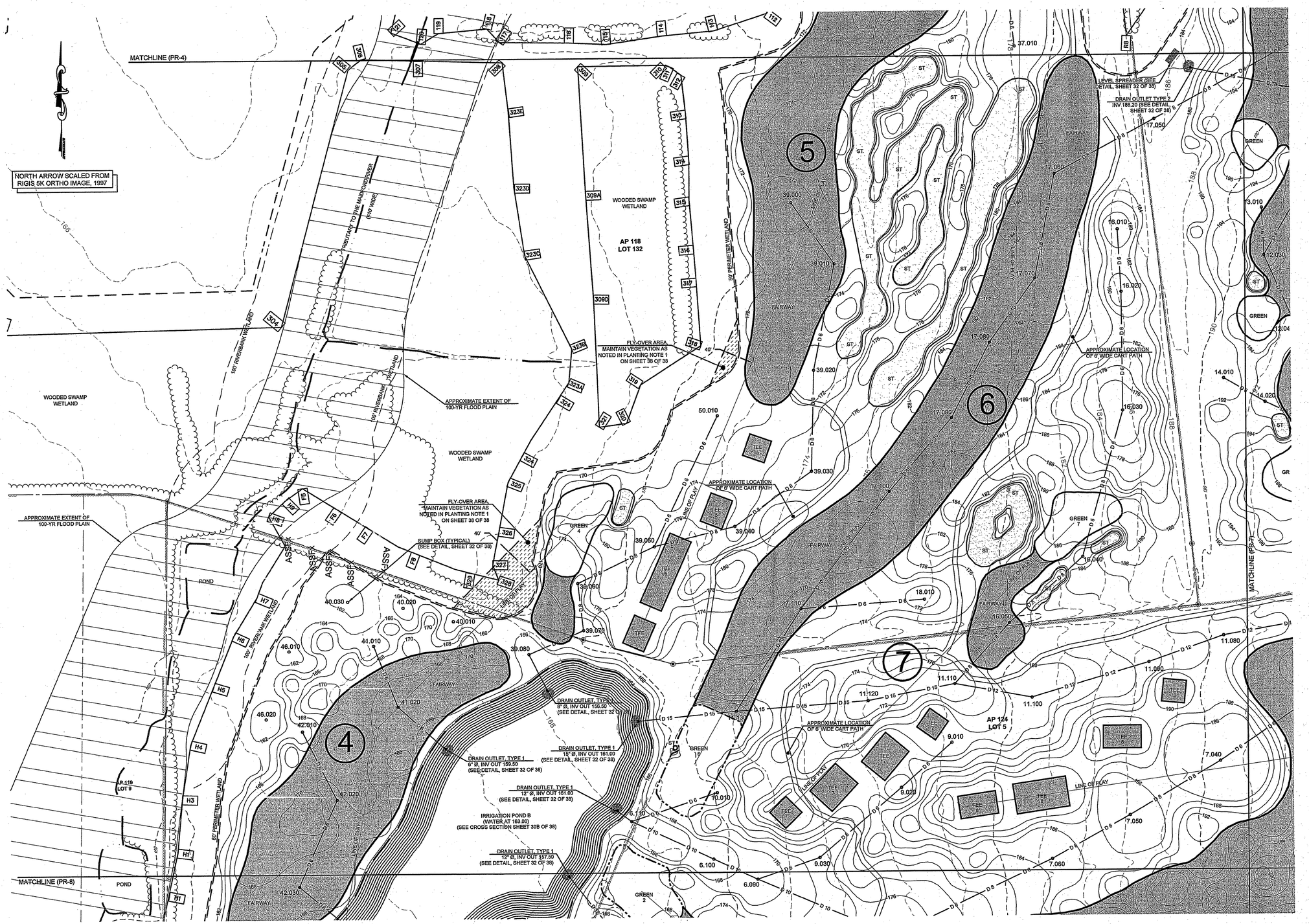
Sheet 16 of 38

Project Number: 04068.3

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P:\Projects\2004\04068 NEWPORT NATIONAL GOLF-WEST COURSE\DRAWINGS\CURRENT\PROPOSED\04068_C1.DWG



GRAPHIC SCALE

60' 0 30' 60' 120' 240'

(in feet)

1 INCH = 60 FEET

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PR-6

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
~~OFFICE OF WATER RESOURCES~~
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 27 2007 FILE # 07-0029
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Griffith Casey

NOTE

1. FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.
2. FOR DRAINAGE SCHEDULES, SEE SHEET 30 OF 38.

No.	Revision	Date	App.
1	RIDEM WETLANDS DIVISION, COMMENTS	12/06	

Designed By: LES	Drawn by: CSM	Checked by:	
Scale: 1" = 60'	Date: 03JAN05		

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:

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10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:

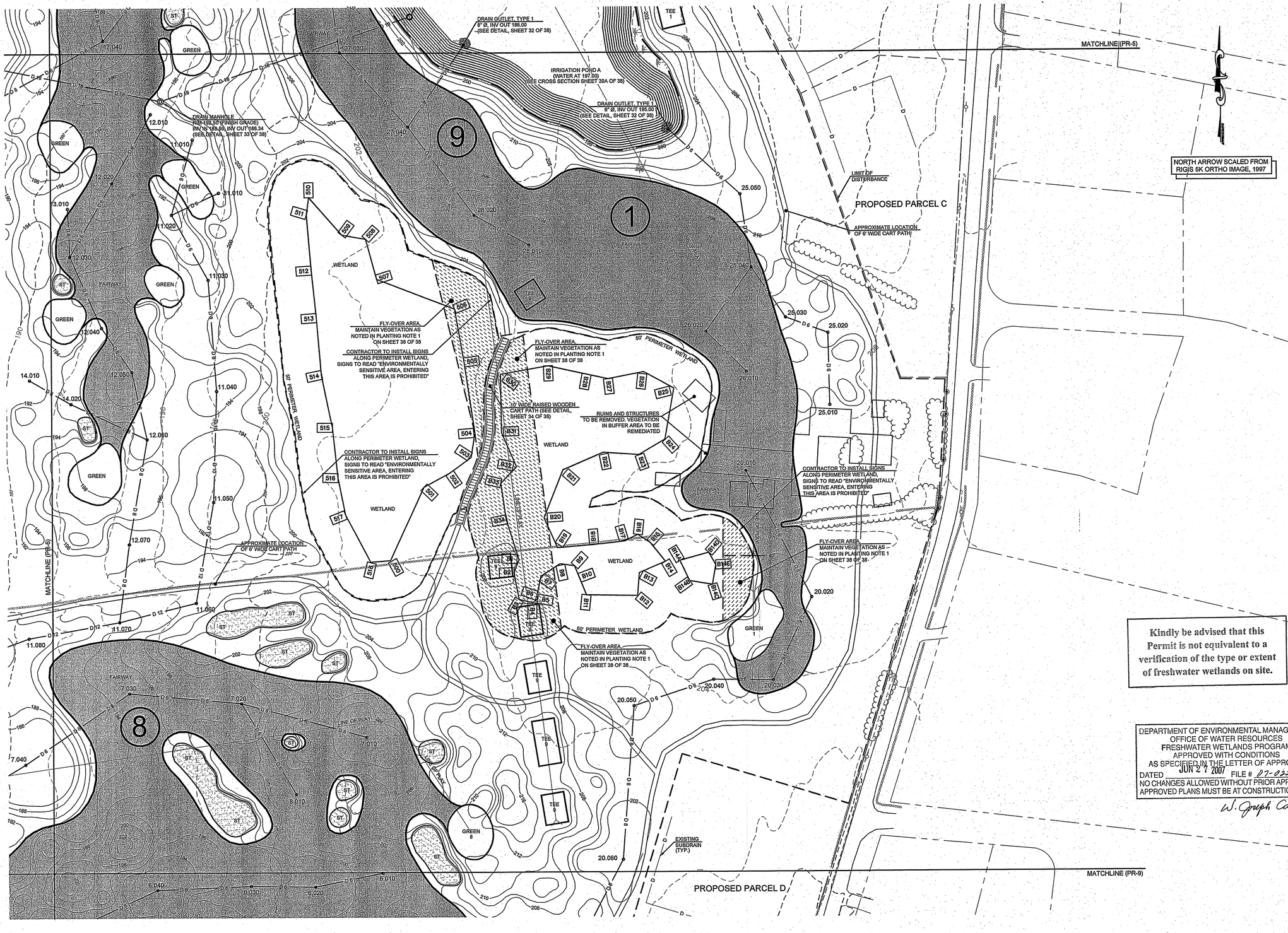
PROPOSED CONDITIONS

A. ERIC OFFENBERG
12-20-06
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: PR-6
Sheet 17 of 38
Project Number: 04068.3
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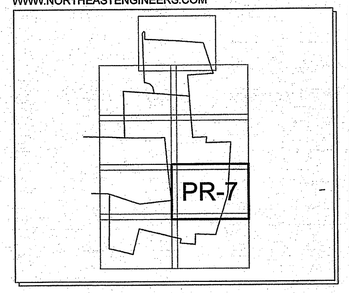


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NOTE

1. FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.
2. FOR DRAINAGE SCHEDULES, SEE SHEET 30 OF 38.

No.	Revision	Date	App.
2	RIDEM WETLANDS DIVISION, COMMENTS	5/07	
1	RIDEM WETLANDS DIVISION, COMMENTS	12/06	

Designed By: LES | Drawn by: CSM | Checked by:
Scale: 1" = 60' | Date: 03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
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PRELIMINARY DETERMINATION

Drawing Title:
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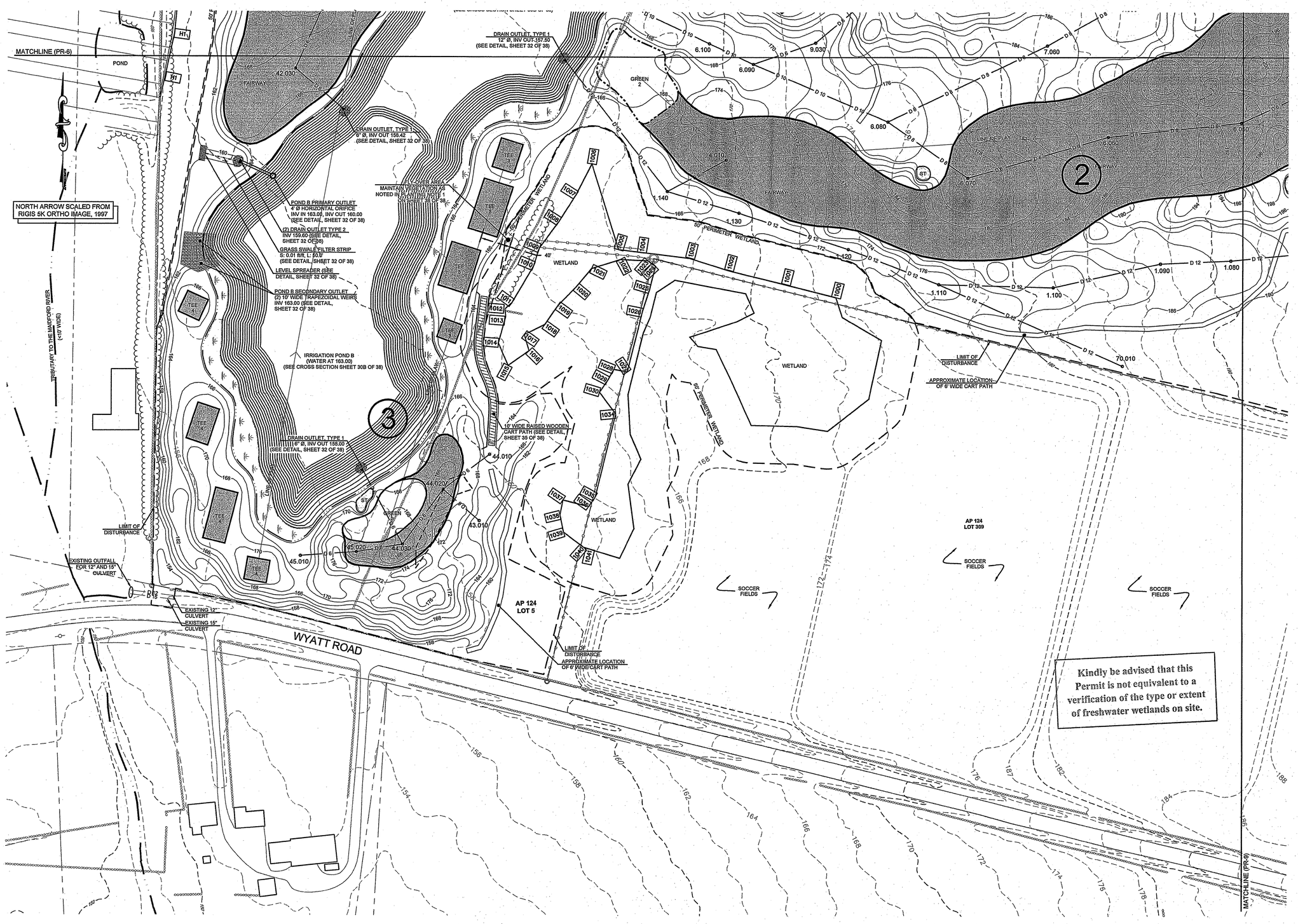
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 27 2007 FILE # 07-0339
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W. Joseph Casey

A. ERIC OFFENBERG
5-23-07
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: PR-7
Sheet 18 of 38
Project Number: 04068.3
Survey Index: – –

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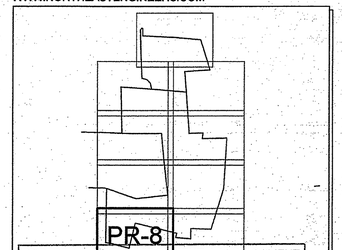


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OFFICE OF WATER RESOURCES
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DATED JUN 27 2007 FILE # 07-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Joseph Casey

NOTE

1. FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.
2. FOR DRAINAGE SCHEDULES, SEE SHEET 30 OF 38.

No.	Revision	Date	App.
2	RIDEM WETLANDS DIVISION, COMMENTS	12/06	
1	CHANGES TO DRAINAGE PER RIDEM	APR06	

Designed By:	LES	Drawn by:	CSM	Checked by:	
Scale:	1" = 60'	Date:	03JAN05		

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:
PROPOSED CONDITIONS

A. ERIC OFFENBERG
12-20-06
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: PR-8
Sheet 19 of 38
Project Number: 04068.3
Survey Index: – –

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NORTH ARROW SCALED FROM RIGIS 5K ORTHO IMAGE, 1997

GRAPHIC SCALE

60' 0 30' 60' 120' 240'

(in feet)

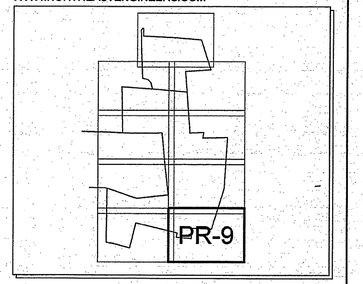
1 INCH = 60 FEET

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NOTE

1. FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.

2. FOR DRAINAGE SCHEDULES, SEE SHEET 30 OF 38.

No.	Revision	Date	App.
1	RIDEM WETLANDS DIVISION, COMMENTS	12/06	

Designed By: LES | Drawn by: CSM | Checked by:

Scale: 1" = 60' | Date: 03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700;
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MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:

MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:

PROPOSED CONDITIONS

Drawing Number: PR-9

Sheet 20 of 38

Project Number: 04068.3

Survey Index: – –

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED JUN 27 2007 FILE # 07-0339
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Joseph Casey

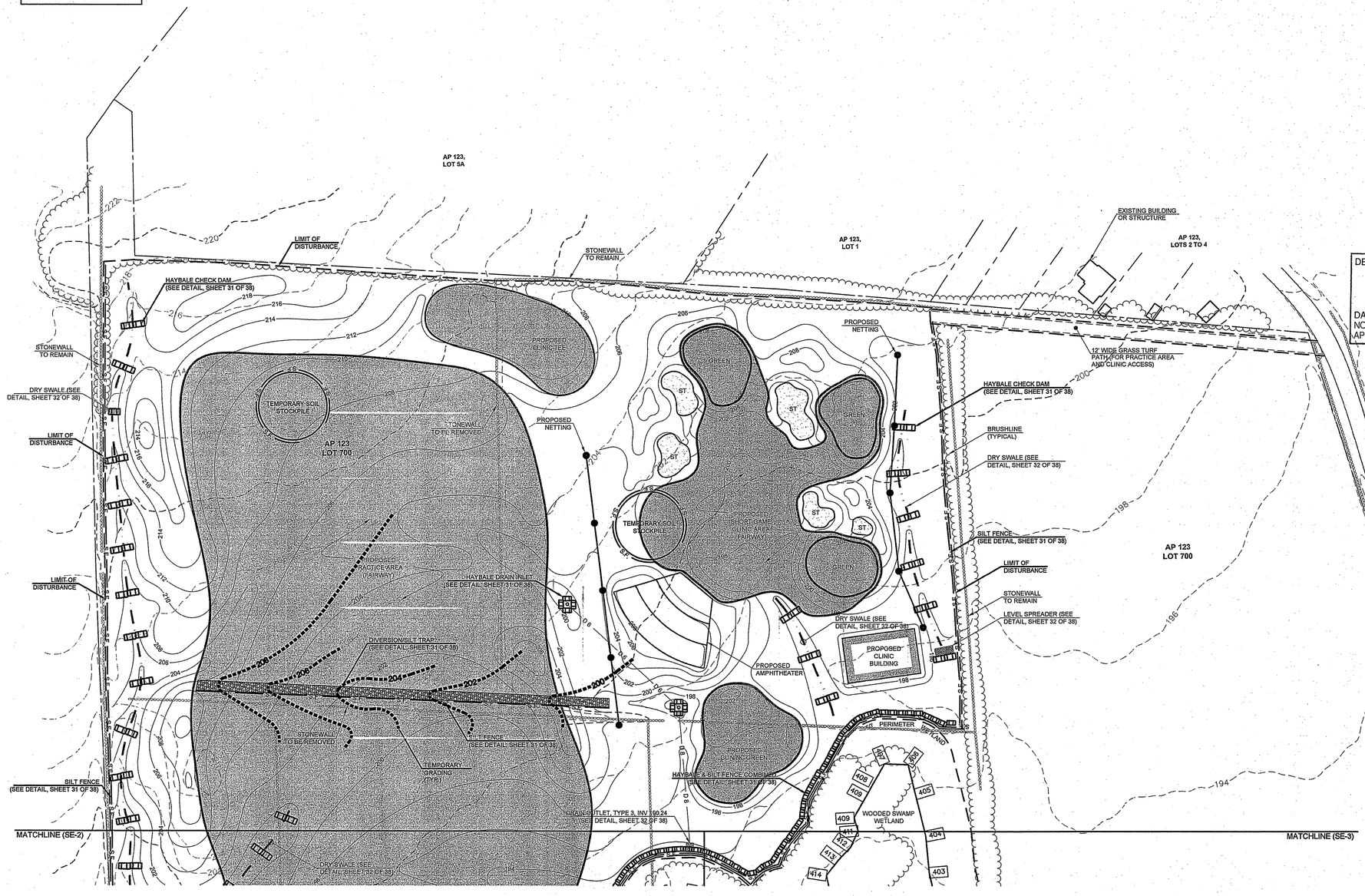
A. ERIC OFFENBERG 12-20-06
No. 7866
REGISTERED PROFESSIONAL ENGINEER CIVIL

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NORTH ARROW SCALED FROM RIGIS 5K ORTHO IMAGE, 1997



GRAPHIC SCALE

60' 0 30' 60' 120' 240'

(in feet)

1 INCH = 60 FEET

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
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W. Joseph Casey

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NOTE

1. FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.

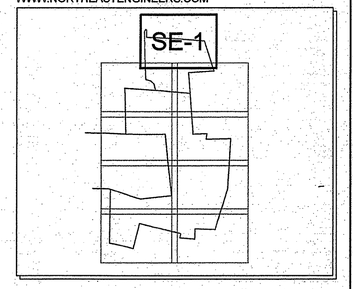
2. FOR SESC NOTES AND DETAILS, SEE SHEET 31 OF 38.

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No.	Revision	Date	App.
1	RIDEM WETLANDS DIVISION, COMMENTS	12/06	

Designed By:	LES	Drawn by:	CSM	Checked by:	
Scale:	1"= 60'	Date:	03JAN05		

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:

MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:

SOIL EROSION & SEDIMENT CONTROL PLAN

A. ERIC OFFENBERG
12-20-06
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: SE-1

Sheet 21 of 38

Project Number: 04068.3

Survey Index: – –

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MAY 25 2006

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NORTH ARROW SCALED FROM RIGIS 5K ORTHO IMAGE, 1997

SILT FENCE (SEE DETAIL, SHEET 31 OF 38)

MATCHLINE (SE-1)

DRY SWALE (SEE DETAIL, SHEET 32 OF 38)

SILT FENCE (SEE DETAIL, SHEET 31 OF 38)

LIMIT OF DISTURBANCE

EXISTING BUILDING OR STRUCTURE

EXISTING BUILDING OR STRUCTURE

AP 118 LOT 106

AP 118 LOT 26

DENSE BRUSH

PROPERTY LINE (SEE NOTES)

MEADOW LANE

LIMIT OF DISTURBANCE

SILT FENCE (SEE DETAIL, SHEET 31 OF 38)

AP 118 LOT 107

AP 123 LOT 12

DENSE BRUSH

AP 118 LOT 27

EXISTING SEWER MANHOLE

AP 118 LOT 108

15' WIDE UTILITY EASEMENT (EXISTING)

PROPOSED SEWER FORCE MAIN TO CONNECT TO EXISTING EAST MEADOW SUBDIVISION SEWER SYSTEM AT NEW MANHOLE

PROPOSED WATER SERVICE MAIN TO CONNECT TO EXISTING EAST MEADOW SUBDIVISION WATER SYSTEM AT NEW TEE

AP 118 LOT 25

EXISTING WATER MAIN

EXISTING ELECTRIC SERVICE

50' PERIMETER WETLAND

WOODED SWAMP WETLAND

SWALE

AP 118 LOT 109

DENSE BRUSH

AP 118 LOT 110

DENSE BRUSH

MATCHLINE (SE-4)

AP 118 LOT 111

SILT FENCE (SEE DETAIL, SHEET 31 OF 38) (TYP.)

DRAIN OUTLET, TYPE 3, INV 190.24 (SEE DETAIL, SHEET 32 OF 38)

DRY SWALE (SEE DETAIL, SHEET 32 OF 35)

STONEWALL TO BE REMOVED

HAYBALE & SILT FENCE COMBINED (SEE DETAIL, SHEET 31 OF 38)

TEMPORARY SOIL STOCKPILE

PROPOSED PRACTICE AREA

PROPOSED PRACTICE AREA (FAIRWAY)

DRY SWALE (SEE DETAIL, SHEET 32 OF 38)

50' PERIMETER WETLAND

PROPOSED CLINIC TEE

HAYBALE & SILT FENCE COMBINED (SEE DETAIL, SHEET 31 OF 38)

AP 123 LOT 700

LIMIT OF DISTURBANCE

MATCHLINE (SE-3)

WOODED SWAMP WETLAND

LIMIT OF DISTURBANCE

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

AP 123 LOT 12

100' RIVERBANK WETLAND

PROPOSED SEWER AND WATER CROSSING (10' PIPE SEPARATION)

SILT FENCE (SEE DETAIL, SHEET 31 OF 38)

WOODED SWAMP WETLAND

APPROXIMATE EXTENT OF 100-YR FLOOD PLAIN

100' RIVERBANK WETLAND

TRIBUTARY TO THE MAIDFORD RIVER (<10' WIDE)

GRAPHIC SCALE

60' 0 30' 60' 120' 240'

(in feet)

1 INCH = 60 FEET

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SE-2

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 27 2007 FILE # 07-0239
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Joseph Casey

NOTE

1. FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.

2. FOR SESC NOTES AND DETAILS, SEE SHEET 31 OF 38.

No.	Revision	Date	App.

Designed By: LES | Drawn by: CSM | Checked by:

Scale: 1" = 60' | Date: 03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 26; AP 124, LOTS 1, 2, 3, 4,5 & 108; AP 123 LOTS 11 &12
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:

MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:

SOIL EROSION & SEDIMENT CONTROL PLAN

A. ERIC OFFENBERG 7-18-05
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: SE-2

Sheet 22 of 38

Project Number: 04068.3

Survey Index: – –

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MAY 25 2006



NORTH ARROW SCALED FROM RIGIS 5K ORTHO IMAGE, 1997

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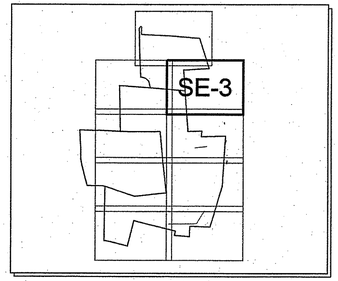
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NOTE

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2. FOR SESC NOTES AND DETAILS, SEE SHEET 31 OF 38.

No.	Revision	Date	App.

Designed By: LES | Drawn by: CSM | Checked by:

Scale: 1" = 60' | Date: 03JAN05

Project Title:

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A. ERIC OFFENBERG
5-18-05
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: SE-3

Sheet 23 of 38

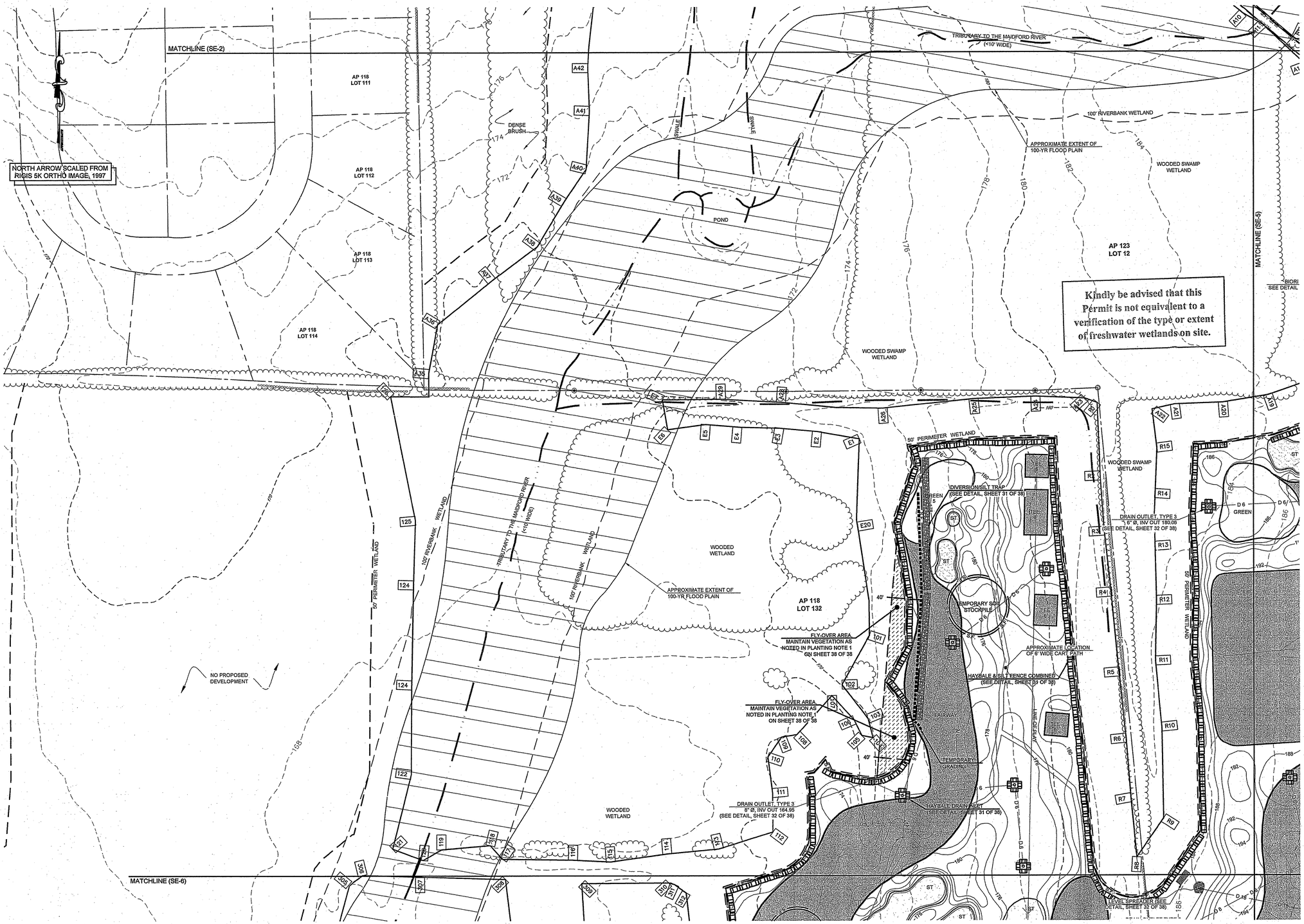
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GRAPHIC SCALE

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SE-4

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 04 2007 FILE # 07-0029
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Casey

NOTE

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2. FOR SESC NOTES AND DETAILS, SEE SHEET 31 OF 38.

No.	Revision	Date	App.
1	RIDEM WETLANDS DIVISION, COMMENTS	12/06	

Designed By:	LES	Drawn by: CSM	Checked by:
Scale:	1" = 60'	Date:	03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

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Client/Owner:

MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:

SOIL EROSION & SEDIMENT CONTROL PLAN

A. ERIC OFFENBERG 12-20-06 No. 7866 REGISTERED PROFESSIONAL ENGINEER CIVIL

Drawing Number: SE-4

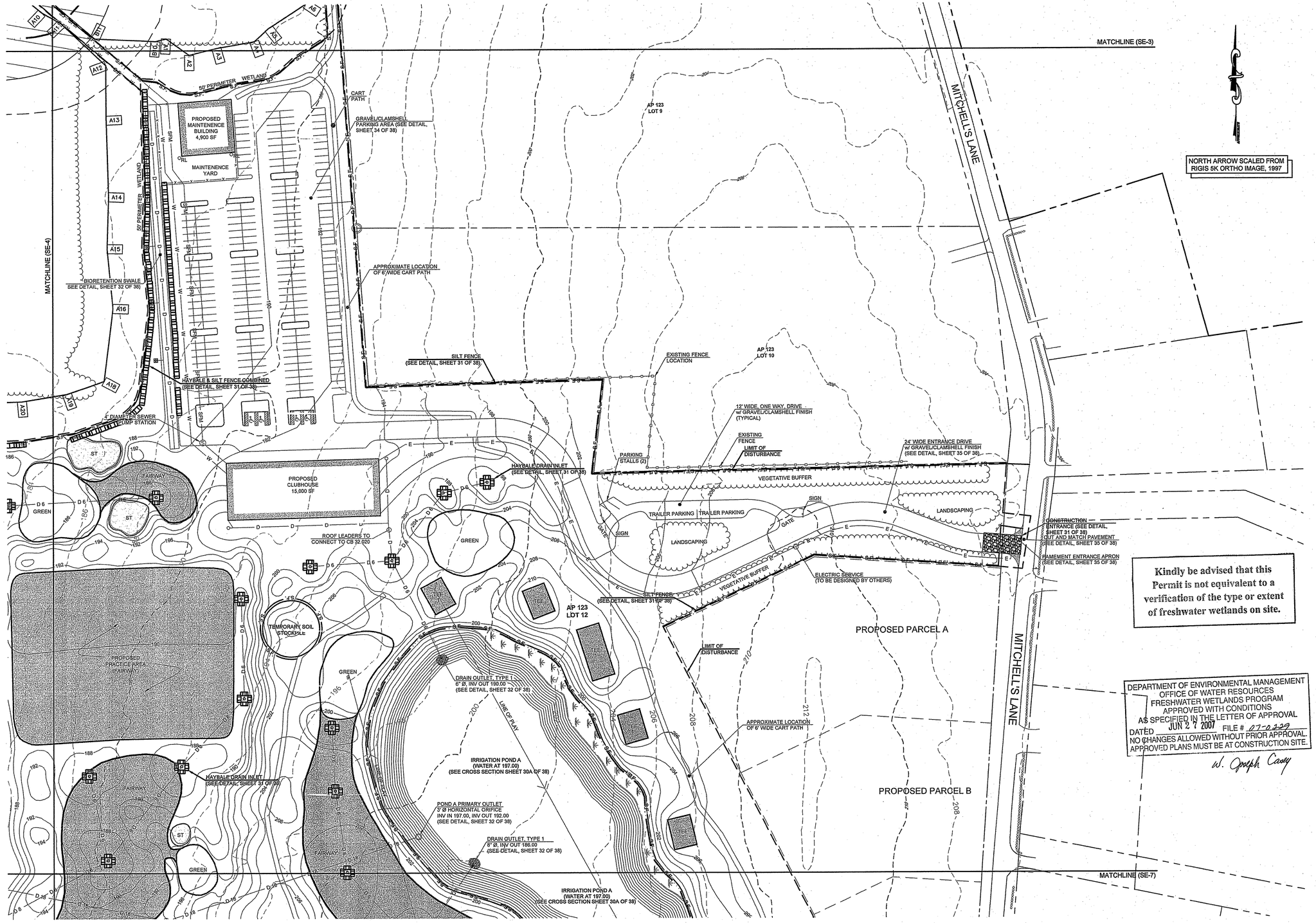
Sheet 24 of 38

Project Number: 04068.3

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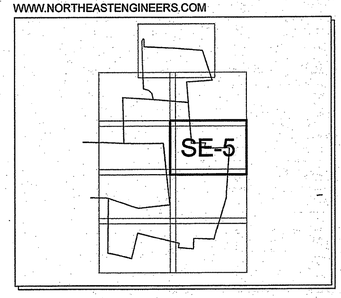
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 2 7 2007 FILE # 07-0229
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W. Joseph Casey

GRAPHIC SCALE
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(in feet)
1 INCH = 60 FEET

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2. FOR SESC NOTES AND DETAILS, SEE SHEET 31 OF 38.

No.	Revision	Date	App.
1	RIDEM WETLANDS DIVISION, COMMENTS	12/06	

Designed By:	LES	Drawn by:	CSM	Checked by:	
Scale:	1" = 60'	Date:	03JAN05		

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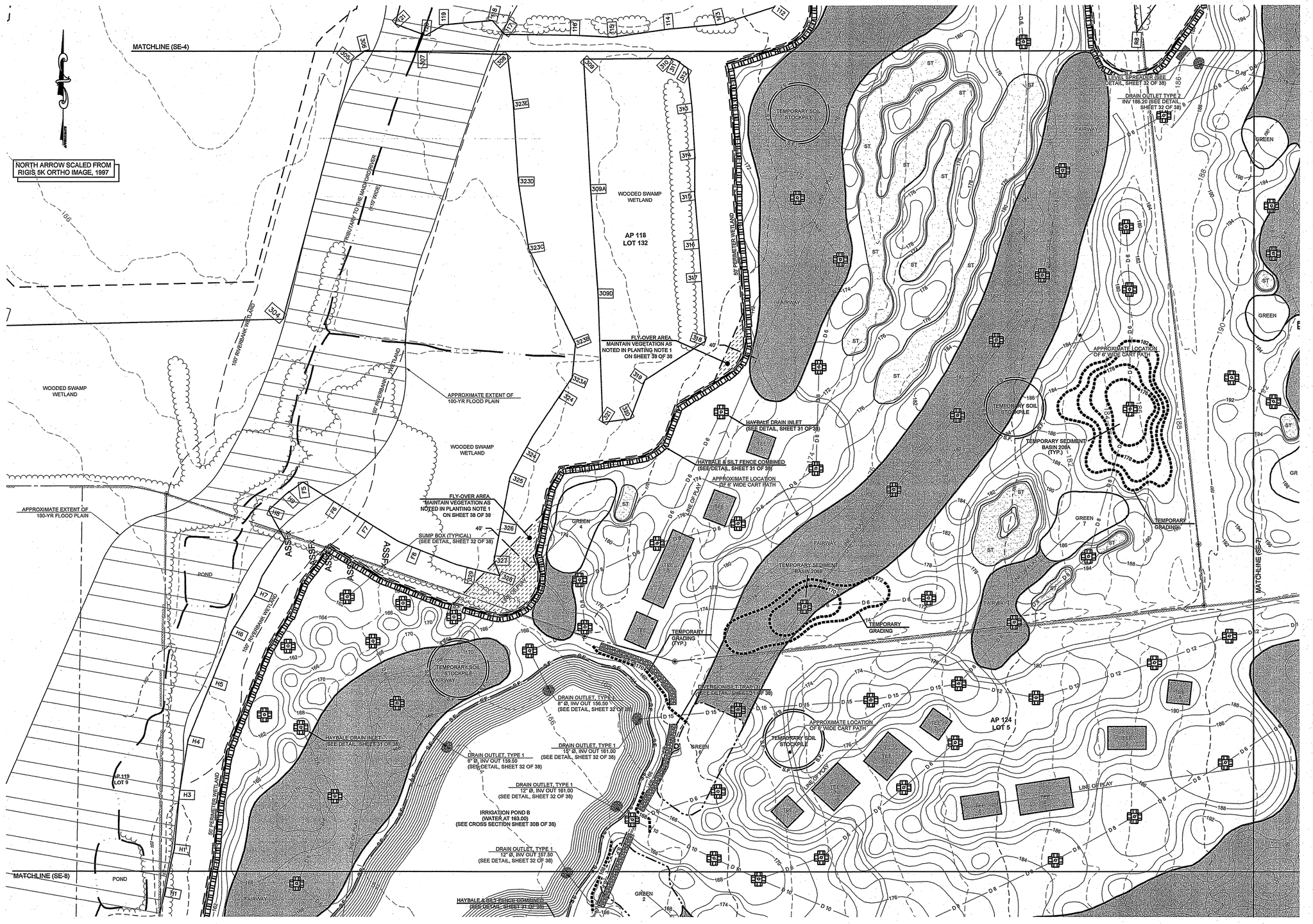
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A. ERIC OFFENBERG
12-20-06
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: SE-5
Sheet 25 of 38
Project Number: 04068.3
Survey Index: – –

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GRAPHIC SCALE

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(in feet)

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SE-6

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED JUN 27 2007 FILE # 07-0029
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W. Joseph Casey

NOTE

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No.	Revision	Date	App.
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Designed By: LES | Drawn by: CSM | Checked by: AEO

Scale: 1" = 60' | Date: 03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:

MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:

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PRELIMINARY DETERMINATION

Drawing Title:

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A. ERIC OFFENBERG 12-20-06 No. 7866 REGISTERED PROFESSIONAL ENGINEER CIVIL

Drawing Number: SE-6

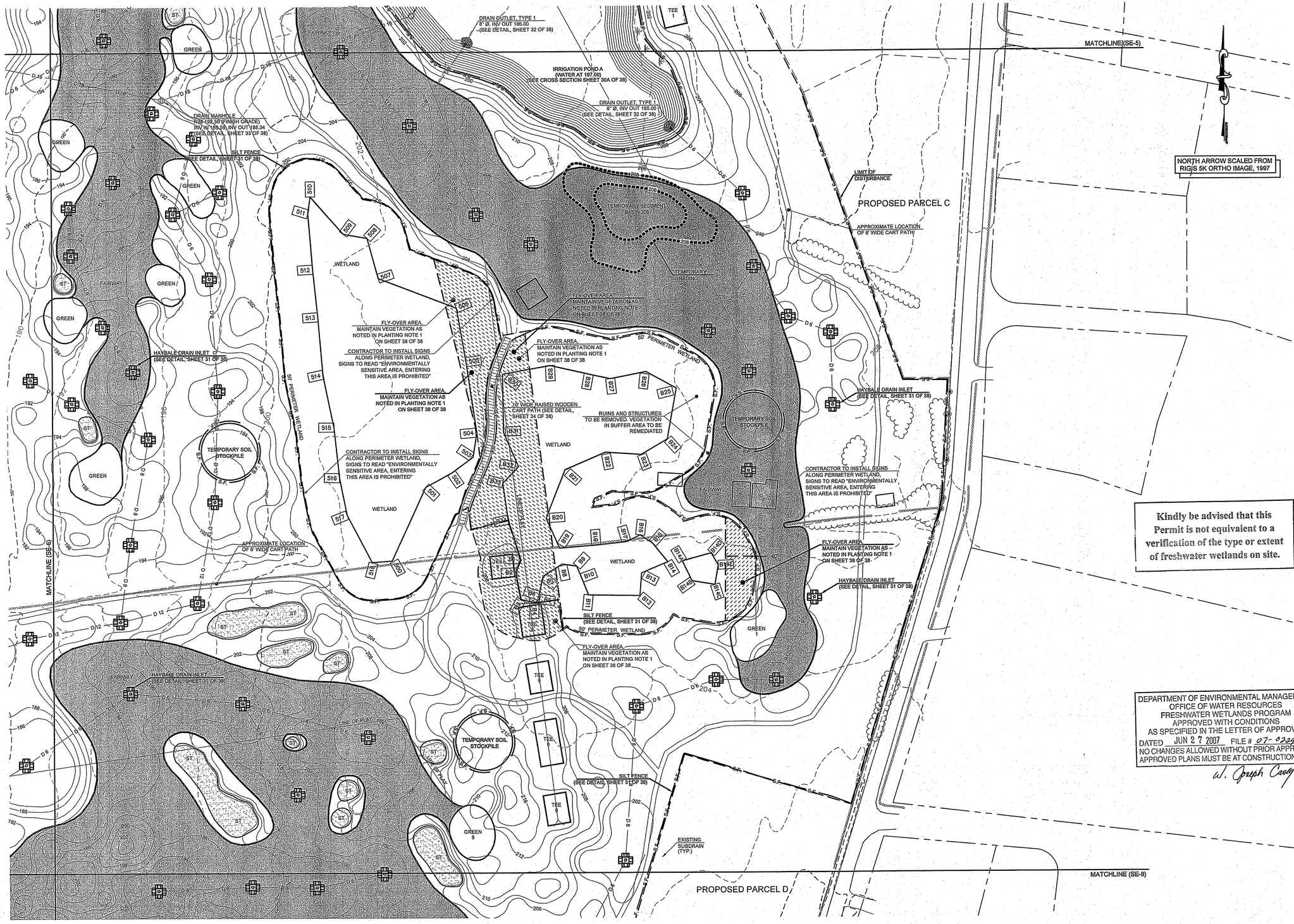
Sheet 26 of 38

Project Number: 04068.3

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NOTE

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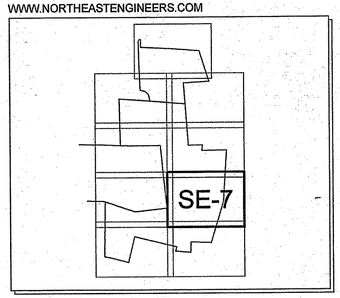
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No.	Revision	Date	App.
2	RIDEM WETLANDS DIVISION, COMMENTS	5/07	
1	RIDEM WETLANDS DIVISION, COMMENTS	12/06	

Designed By:	LES	Drawn by:	CSM	Checked by:	
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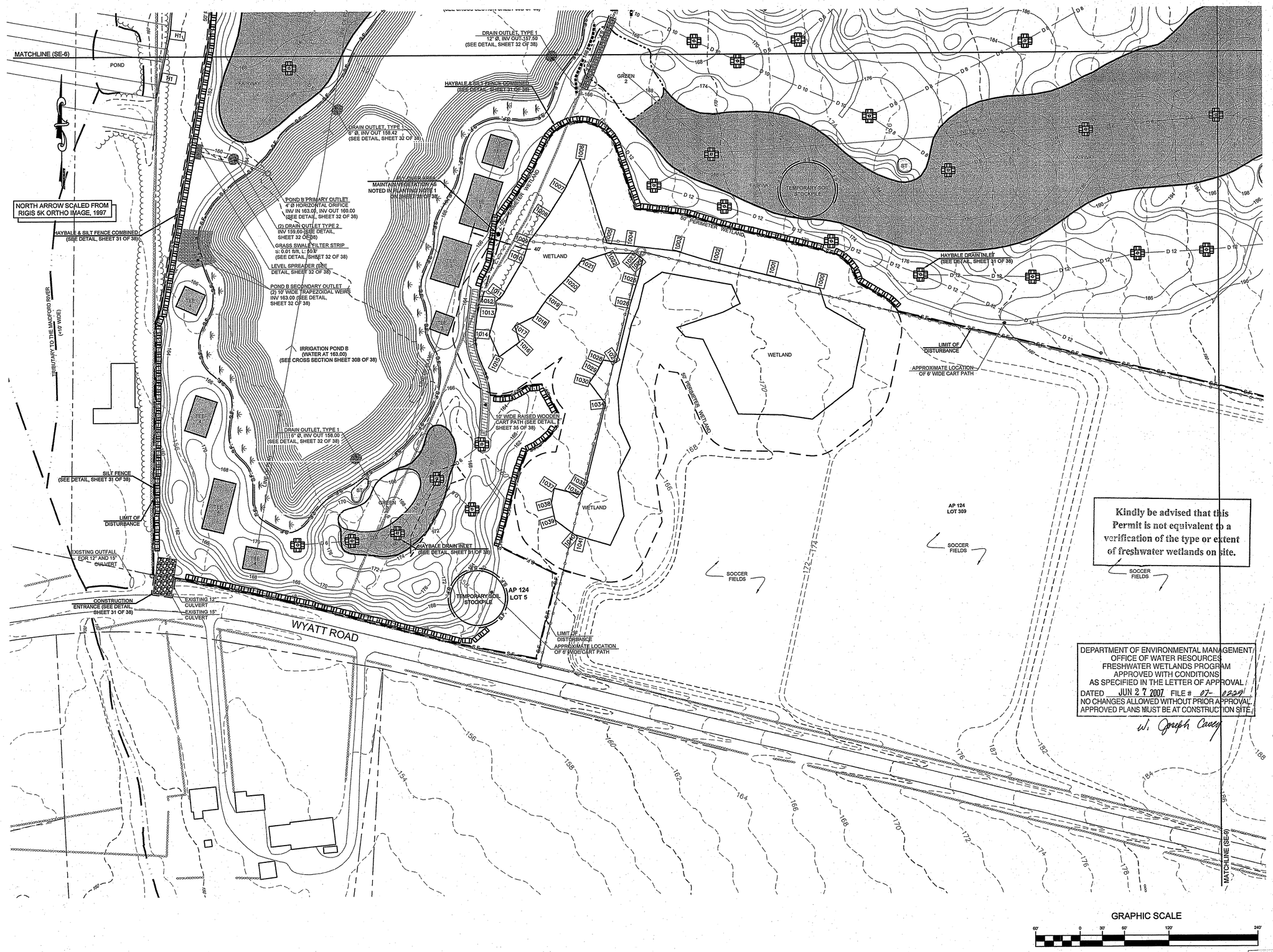
Sheet 27 of 38

Project Number: 04068.3

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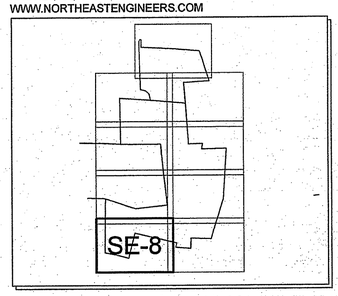
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W. Joseph Casey

GRAPHIC SCALE
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P:\Projects\2004\04068 NEWPORT NATIONAL GOLF-WEST COURSE\DRAWINGS\CURRENT\PROPOSED\04068_C1.DWG

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NOTE
1. FOR LEGEND AND GENERAL NOTES, SEE DRAWING NUMBER I-1, SHEET 2 OF 38.
2. FOR SESC NOTES AND DETAILS, SEE SHEET 31 OF 38.

No.	Revision	Date	App.
1	RIDEM WETLANDS DIVISION, COMMENTS	12/06	

Designed By: LES | Drawn by: CSM | Checked by:
Scale: 1" = 60' | Date: 03JAN05

Project Title:
NEWPORT NATIONAL GOLF CLUB
WEST COURSE
AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:
SOIL EROSION & SEDIMENT CONTROL PLAN

A. ERIC OFFENBERG
12-20-06
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: SE-8
Sheet 28 of 38
Project Number: 04068.3
Survey Index: – –

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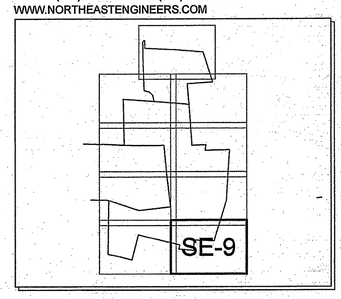
NORTH ARROW SCALED FROM RIGIS 5K ORTHO IMAGE, 1997

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NOTE

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No.	Revision	Date	App.
1	RIDEM WETLANDS DIVISION, COMMENTS	12/06	

Designed By: LES | Drawn by: CSM | Checked by:
Scale: 1" = 60' | Date: 03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:
SOIL EROSION & SEDIMENT CONTROL PLAN

Drawing Number: SE-9
Sheet 29 of 38
Project Number: 04068.3
Survey Index: – –

A. ERIC OFFENBERG
12-20-06
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

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 JUN 27 2007 FILE # 07-2229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Joseph Casey

GRAPHIC SCALE
60' 0 30' 60' 120' 240'
(in feet)
1 INCH = 60 FEET

MAY 25 2006

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Newport National 3rd Nine Site
Drain Pipe Schedule

Revision 0 Dec-04

Pipe From	To	Length/ft.	Slope	U/s Invert Level/ft.	D/s Invert Level/ft.	Pipe Size
CB1.010	CB1.020	72.66	0.03	196.00	194.00	6" PVC SCH-35
CB1.020	CB1.030	81.04	0.02	193.75	192.00	6" PVC SCH-35
CB1.030	CB1.040	88.49	0.02	191.75	190.00	6" PVC SCH-35
CB1.040	CB1.050	118.54	0.01	189.75	188.56	6" PVC SCH-35
CB1.050	CB1.060	155.65	0.03	188.31	184.00	6" PVC SCH-35
CB1.060	CB1.070	158.72	0.01	182.51	180.93	12" ADS N-12
CB1.070	CB1.080	184.14	0.01	180.68	178.84	12" ADS N-12
CB1.080	CB1.090	93.23	0.01	178.59	177.65	12" ADS N-12
CB1.090	CB1.100	145.42	0.01	177.40	176.00	12" ADS N-12
CB1.100	CB1.110	151.72	0.02	175.75	172.00	12" ADS N-12
CB1.110	CB1.120	128.93	0.03	171.75	168.00	12" ADS N-12
CB1.120	CB1.130	152.83	0.02	167.75	164.00	12" ADS N-12
CB1.130	CB1.140	99.08	0.02	163.75	162.00	12" ADS N-12
CB1.140	outlet	218.18	0.02	161.75	157.50	12" ADS N-12
CB2.010	CB2.020	174.33	0.01	188.00	186.26	6" PVC SCH-35
CB2.020	CB2.030	130.93	0.01	186.01	184.70	10" PVC SCH-35
CB2.030	CB1.060	168.28	0.01	184.45	182.76	10" PVC SCH-35
CB4.010	CB1.140	88.46	0.02	164.00	162.00	6" PVC SCH-35
CB6.010	CB6.020	91.22	0.02	198.00	196.00	6" PVC SCH-35
CB6.020	CB6.030	85.24	0.02	195.75	194.00	6" PVC SCH-35
CB6.030	CB6.040	124.15	0.03	193.75	190.00	6" PVC SCH-35
CB6.040	CB6.050	153.40	0.015	189.75	187.45	6" PVC SCH-35
CB6.050	CB6.060	177.16	0.03	187.20	182.00	6" PVC SCH-35
CB6.060	CB6.070	193.91	0.04	181.75	174.00	6" PVC SCH-35
CB6.070	CB6.080	130.22	0.01	173.75	172.00	8" PVC SCH-35
CB6.080	CB6.090	194.36	0.03	171.75	166.00	10" PVC SCH-35

Pipe From	To	Length/ft.	Slope	U/s Invert Level/ft.	D/s Invert Level/ft.	Pipe Size
CB6.090	CB6.100	64.35	0.03	165.75	164.00	10" PVC SCH-35
CB6.100	CB6.110	119.33	0.02	163.75	161.50	10" PVC SCH-35
CB6.110	outlet	20.36	0.01	161.25	161.00	12" ADS N-12
CB7.010	CB7.020	171.75	0.02	199.25	195.25	6" PVC SCH-35
CB7.020	CB7.030	148.80	0.02	195.00	192.00	6" PVC SCH-35
CB7.030	CB7.040	167.32	0.015	184.50	182.00	6" PVC SCH-35
CB7.040	CB7.050	139.05	0.01	181.75	180.36	8" PVC SCH-35
CB7.050	CB7.060	118.44	0.01	180.11	178.93	8" PVC SCH-35
CB7.060	CB6.090	233.97	0.03	178.68	172.00	8" PVC SCH-35
CB8.010	CB7.020	140.78	0.02	198.00	195.25	6" PVC SCH-35
CB9.010	CB9.020	89.94	0.01	176.00	175.10	6" PVC SCH-35
CB9.020	CB9.030	142.44	0.03	174.85	170.00	6" PVC SCH-35
CB9.030	CB6.090	87.45	0.04	169.75	166.00	6" PVC SCH-35
CB10.010	CB6.110	119.2	0.04	166.00	161.50	6" PVC SCH-35
CB11.010	CB11.020	103.79	0.01	188.00	186.96	6" PVC SCH-35
CB11.020	CB11.030	99.60	0.01	186.71	185.73	6" PVC SCH-35
CB11.030	CB11.040	147.91	0.01	185.48	184.00	8" PVC SCH-35
CB11.040	CB11.050	146.83	0.01	183.75	182.28	10" PVC SCH-35
CB11.050	CB11.060	136.00	0.01	182.03	180.67	12" ADS N-12
CB11.060	CB11.070	104.73	0.01	180.42	179.37	12" ADS N-12
CB11.070	CB11.080	122.06	0.01	178.02	176.80	12" ADS N-12
CB11.080	CB11.090	104.74	0.01	176.55	175.50	12" ADS N-12
CB11.090	CB11.100	161.64	0.01	175.25	173.64	12" ADS N-12
CB11.100	CB11.110	103.19	0.04	173.39	169.00	12" ADS N-12
CB11.110	CB11.120	117.34	0.01	166.58	165.41	15" ADS N-12
CB11.120	CB11.130	175.33	0.01	165.16	163.41	15" ADS N-12
CB11.130	Outlet	126.35	0.02	163.16	161.00	15" ADS N-12

Pipe From	To	Length/ft.	Slope	U/s Invert Level/ft.	D/s Invert Level/ft.	Pipe Size
CB12.010	CB12.060	104.88	0.02	188.00	186.00	6" PVC SCH-35
CB12.020	CB12.030	112.11	0.01	185.75	184.63	6" PVC SCH-35
CB12.030	CB12.040	103.38	0.01	184.38	183.35	6" PVC SCH-35
CB12.040	CB12.050	71.14	0.01	183.10	182.38	6" PVC SCH-35
CB12.050	CB12.060	91.25	0.01	182.13	181.22	6" PVC SCH-35
CB12.060	CB12.070	141.42	0.01	180.97	179.56	8" PVC SCH-35
CB12.070	CB11.070	103.68	0.01	179.31	178.27	8" PVC SCH-35
CB13.010	CB12.030	63.19	0.03	188.00	186.00	6" PVC SCH-35
CB14.010	CB14.020	63.19	0.01	188.00	187.37	6" PVC SCH-35
CB14.020	CB12.060	111.33	0.01	187.12	186.00	6" PVC SCH-35
CB16.010	CB16.020	83.40	0.01	176.00	175.17	6" PVC SCH-35
CB16.020	CB16.030	157.82	0.02	174.92	172.00	6" PVC SCH-35
CB16.030	CB16.040	202.01	0.01	171.75	169.73	8" PVC SCH-35
CB16.040	CB16.050	130.66	0.01	169.48	168.17	8" PVC SCH-35
CB16.050	CB11.110	108.92	0.01	167.92	166.83	8" PVC SCH-35
CB17.010	CB17.020	131.91	0.01	186.00	184.68	6" PVC SCH-35
CB17.020	CB17.030	121.65	0.01	184.43	183.21	6" PVC SCH-35
CB17.030	CB17.040	157.14	0.01	182.96	181.39	6" PVC SCH-35
CB17.040	CB17.050	215.40	0.01	181.14	178.99	8" PVC SCH-35
CB17.050	CB17.060	151.00	0.01	178.74	177.23	8" PVC SCH-35
CB17.060	CB17.070	141.57	0.01	176.98	175.56	8" PVC SCH-35
CB17.070	CB17.080	104.46	0.01	175.31	174.27	10" PVC SCH-35
CB17.080	CB17.090	111.61	0.01	174.02	172.90	10" PVC SCH-35
CB17.090	CB17.100	128.74	0.01	172.65	171.37	10" PVC SCH-35
CB17.100	CB17.110	194.52	0.03	171.12	166.00	10" PVC SCH-35
CB17.110	CB11.130	161.99	0.01	165.75	164.13	10" PVC SCH-35
CB18.010	CB17.110	163.73	0.01	168.00	166.00	6" PVC SCH-35
CB20.010	CB20.020	189.05	0.01	200.96	199.06	6" PVC SCH-35
CB20.020	CB20.030	120.90	0.01	198.81	197.61	6" PVC SCH-35

Newport National 3rd Nine Site
Drain Structure Schedule

Revision 0 Dec-04

Number	Rim	Invert In	From	Invert Out	Sump (MIN)*	Type and Size	Grate
CB1.010	199.00	N/A	N/A	196.00	195.50	12" DB	12" H-10
CB1.020	197.00	194.00	CB1.010	193.75	193.25	12" DB	12" H-10
CB1.030	195.00	192.00	CB1.020	191.75	191.25	12" DB	12" H-10
CB1.040	193.00	190.00	CB1.030	189.75	189.25	12" DB	12" H-10
CB1.050	193.00	188.56	CB1.040	188.31	187.81	12" DB	12" H-10
CB1.060	187.00	184.00	CB1.050	182.51	179.51	4' CB	24" GRATE**
		182.76	CB2.030				
CB1.070	187.00	180.93	CB1.060	180.68	180.18	12" DB	12" H-10
CB1.080	187.00	178.84	CB1.070	178.59	178.09	12" DB	12" H-10
CB1.090	185.00	177.65	CB1.080	177.40	176.90	12" DB	12" H-10
CB1.100	179.00	176.00	CB1.090	175.75	175.25	12" DB	12" H-10
CB1.110	175.00	172.00	CB1.100	171.75	171.25	4' CB	24" GRATE**
		172.00	CB70.010				
CB1.120	171.00	168.00	CB1.110	167.75	167.25	12" DB	12" H-10
CB1.130	167.00	164.00	CB1.120	163.75	163.25	12" DB	12" H-10
CB1.140	165.00	162.00	CB1.130	161.75	161.25	24" DB	24" H-10
		162.00	CB4.010				
CB2.010	191.00	N/A	N/A	188.00	187.50	18" DB	18" H-10
CB2.020	195.00	186.26	CB2.010	186.01	185.51	15" DB	15" H-10
		190.08	CB20.070				
CB2.030	193.00	184.70	CB2.020	184.45	183.95	12" DB	12" H-10
CB4.010	167.00	N/A	N/A	164.00	163.50	12" DB	12" H-10
CB5.010	167.00	N/A	N/A	N/A		Sump Box	12" H-10
CB6.010	201.00	N/A	N/A	198.00	197.50	12" DB	12" H-10
CB6.020	199.00	196.00	CB6.010	195.75	195.25	12" DB	12" H-10
CB6.030	197.00	194.00	CB6.020	193.75	193.25	12" DB	12" H-10
CB6.040	193.00	190.00	CB6.030	189.75	189.25	12" DB	12" H-10
CB6.050	193.00	187.45	CB6.040	187.20	186.70	12" DB	12" H-10
CB6.060	185.00	182.00	CB6.050	181.75	181.25	12" DB	12" H-10
CB6.070	177.00	174.00	CB6.060	173.75	173.25	12" DB	12" H-10
CB6.080	175.00	172.00	CB6.070	171.75	171.25	18" DB	18" H-10
		172.00	CB7.080				

Number	Rim	Invert In	From	Invert Out	Sump (MIN)*	Type and Size	Grade
CB6.090	169.00	166.00	CB6.080	165.75	165.25	24" DB	24" H-10
		166.00	CB9.030				
CB6.100	167.00	164.00	CB6.090	163.75	163.25	12" DB	12" H-10
CB6.110	164.50	161.50	CB6.100	161.25	160.75	24" DB	24" H-10
		161.50	CB10.010				
CB7.010	202.25	N/A	N/A	199.25	198.75	12" DB	12" H-10
CB7.020	198.25	195.25	CB7.010	195.00	194.50	18" DB	18" H-10
		195.25	CB8.010				
CB7.030	195.00	192.00	CB7.020	184.50	184.00	12" DB	12" H-10
CB7.040	185.00	182.00	CB7.030	181.75	181.25	12" DB	12" H-10
CB7.050	184.25	180.36	CB7.040	180.11	179.61	12" DB	12" H-10
CB7.060	185.00	178.93	CB7.050	178.68	178.18	12" DB	12" H-10
CB8.010	201.00	N/A	N/A	198.00	197.50	12" DB	12" H-10
CB9.010	179.00	N/A	N/A	176.00	175.50	12" DB	12" H-10
CB9.020	179.00	175.10	CB9.010	174.85	174.35	12" DB	12" H-10
CB9.030	173.00	170.00	CB9.020	169.75	169.25	12" DB	12" H-10
CB10.010	169.00	N/A	N/A	166.00	165.50	12" DB	12" H-10
CB11.010	191.00	N/A	N/A	188.00	187.50	24" DB	24" H-10
CB11.020	191.00	186.96	CB11.010	186.71	186.21	18" DB	18" H-10
		188.00	CB31.010				
CB11.030	195.00	185.73	CB11.020	185.48	184.98	18" DB	18" H-10
CB11.040	193.00	184.00	CB11.030	183.75	183.25	18" DB	18" H-10
CB11.050	191.00	182.28	CB11.040	182.03	181.53	18" DB	18" H-10
CB11.060	187.00	180.67	CB11.050	180.42	177.42	4' CB	24" GRATE**
CB11.070	193.00	179.37	CB11.060	178.02	175.02	4' CB	24" GRATE**
		178.27	CB12.070				
CB11.080	189.00	176.80	CB11.070	176.55	173.55	4' CB	24" GRATE**
CB11.090	185.00	175.50	CB11.080	175.25	172.25	4' CB	24" GRATE**
CB11.100	179.00	173.64	CB11.090	173.39	172.89	12" DB	12" H-10
CB11.110	173.00	169.00	CB11.100	166.58	166.08	15" DB	15" H-10
		166.83	CB16.050				
CB11.120	171.00	165.41	CB11.110	165.16	164.66	15" DB	15" H-10
CB11.130	169.80	163.41	CB11.120	163.16	160.16	4' CB	24" GRATE**
		164.13	CB17.110				

Number	Rim	Invert In	From	Invert Out	Sump (MIN)*	Type and Size	Grade
CB12.010	191.00	N/A	N/A	188.00	187.50	12" DB	12" H-10
CB12.020	189.00	186.00	CB12.010	185.75	185.25	12" DB	12" H-10
CB12.030	189.00	184.63	CB12.020	184.38	183.88	24" DB	24" H-10
		186.00	CB13.010				
CB12.040	191.00	183.35	CB12.030	183.10	182.60	12" DB	12" H-10
CB12.050	191.00	182.38	CB12.040	182.13	181.63	12" DB	12" H-10
CB12.060	193.00	181.22	CB12.050	180.97	177.97	4' CB	24" GRATE**
		186.00	CB14.020				
CB12.070	193.00	179.56	CB12.060	179.31	176.31	4' CB	24" GRATE**
CB13.010	191.00	N/A	N/A	188.00	187.50	12" DB	12" H-10
CB14.010	191.00	N/A	N/A	188.00	187.50	12" DB	12" H-10
CB14.020	191.00	187.37	CB14.010	187.12	186.62	12" DB	12" H-10
CB16.010	179.00	N/A	N/A	176.00	175.50	12" DB	12" H-10
CB16.020	179.00	175.17	CB16.010	174.92	174.42	12" DB	12" H-10
CB16.030	175.00	172.00	CB16.020	171.75	171.25	24" DB	24" H-10
CB16.040	181.00	169.73	CB16.030	169.48	166.48	4' CB	24" GRATE**
CB16.050	179.00	168.17	CB16.040	167.92	164.92	4' CB	24" GRATE**
CB17.010	189.00	N/A	N/A	186.00	185.50	24" DB	24" H-10
CB17.020	189.00	184.68	CB17.010	184.43	183.93	12" DB	12" H-10
CB17.030	187.00	183.21	CB17.020	182.96	182.46	12" DB	12" H-10
CB17.040	187.00	181.39	CB17.030	181.14	180.64	15" DB	15" H-10
		182.86	CB29.010				
CB17.050	185.00	178.99	CB17.040	178.74	178.24	12" DB	12" H-10
CB17.060	181.00	177.23	CB17.050	176.98	176.48	12" DB	12" H-10
CB17.070	181.00	175.56	CB17.060	175.31	174.81	12" DB	12" H-10
CB17.080	181.00	174.27	CB17.070	174.02	173.52	12" DB	12" H-10
CB17.090	181.00	172.90	CB17.080	172.65	172.15	12" DB	12" H-10
CB17.100	177.00	171.37	CB17.090	171.12	170.62	12" DB	12" H-10
CB17.110	169.00	166.00	CB17.100	165.75	165.25	12" DB	12" H-10
		166.00	CB18.010				
CB18.010	171.00	N/A	N/A	168.00	167.50	12" DB	12" H-10
CB20.010	207.00	N/A	N/A	200.96	200.46	12" DB	12" H-10
CB20.020	205.00	199.06	CB20.010	198.81	198.31	12" DB	12" H-10

Newport National 3rd Nine Site
Drain Pipe Schedule

Revision 0 Dec-04

Pipe From	To	Length/ft.	Slope	U/s Invert Level/ft.	D/s Invert Level/ft.	Pipe Size
CB20.030	CB20.040	79.23	0.01	197.35	196.56	6" PVC SCH-35
CB20.040	CB20.050	111.29	0.01	196.31	195.20	6" PVC SCH-35
CB20.050	CB20.060	204.10	0.01	194.95	192.91	8" PVC SCH-35
CB20.060	CB20.070	133.85	0.01	192.66	191.32	8" PVC SCH-35
CB20.070	CB2.020	98.79	0.01	191.07	190.08	8" PVC SCH-35
CB25.010	CB25.020	95.52	0.01	206.00	205.04	6" PVC SCH-35
CB25.020	CB25.030	59.74	0.01	204.79	204.20	6" PVC SCH-35
CB25.030	CB25.040	80.40	0.01	203.95	203.14	6" PVC SCH-35
CB25.040	CB25.050	97.81	0.01	201.70	200.72	6" PVC SCH-35
CB25.050	outlet	124.10	0.04	200.47	195.00	6" PVC SCH-35
CB26.010	CB26.020	75.37	0.01	204.00	203.25	6" PVC SCH-35
CB26.020	CB25.040	104.39	0.01	203.00	201.95	6" PVC SCH-35
CB27.010	CB27.020	84.22	0.01	196.00	195.16	6" PVC SCH-35
CB27.020	CB27.030	108.18	0.01	190.43	189.35	6" PVC SCH-35
CB27.030	CB27.040	133.42	0.01	189.10	187.76	6" PVC SCH-35
CB27.040	outlet	137.61	0.01	187.51	186.00	8" PVC SCH-35
CB28.010	CB28.020	82.45	0.01	200.00	199.18	6" PVC SCH-35
CB28.020	CB27.040	146.39	0.01	198.93	197.46	6" PVC SCH-35
CB29.010	CB17.040	114.15	0.01	184.00	182.86	6" PVC SCH-35
CB31.010	CB11.020	68.72	0.06	192.00	188.00	6" PVC SCH-35

Pipe From	To	Length/ft.	Slope	U/s Invert Level/ft.	D/s Invert Level/ft.	Pipe Size
CB32.010	CB32.020	107.70	0.01	196.00	194.92	6" PVC SCH-35
CB32.020	outlet	140.23	0.016	192.29	190.00	6" PVC SCH-35
CB33.010	CB33.020	59.37	0.01	194.50	193.91	6" PVC SCH-35
CB33.020	CB32.020	111.30	0.01	193.66	192.54	6" PVC SCH-35
CB34.010	outlet	193.93	0.01	182.00	180.06	6" PVC SCH-35
CB36.010	CB36.020	156.17	0.06	178.00	168.00	6" PVC SCH-35
CB36.020	CB37.030	212.59	0.01	167.75	165.62	6" PVC SCH-35
CB37.010	CB37.020	107.98	0.01	172.00	170.92	6" PVC SCH-35
CB37.020	CB37.030	147.18	0.01	170.67	169.20	6" PVC SCH-35
CB37.030	outlet	42.27	0.01	165.37	164.95	8" PVC SCH-35
CB39.000	CB39.010	99.93	0.01	168.00	167.00	6" PVC SCH-35
CB39.010	CB39.020	144.73	0.01	166.75	165.30	6" PVC SCH-35
CB39.020	CB39.030	134.01	0.01	165.05	163.71	8" PVC SCH-35
CB39.030	CB39.040	125.80	0.01	163.46	162.21	8" PVC SCH-35
CB39.040	CB39.050	109.58	0.01	161.96	160.86	8" PVC SCH-35
CB39.050	CB39.060	112.76	0.01	160.61	159.48	8" PVC SCH-35
CB39.060	CB39.070	63.14	0.01	159.23	158.60	8" PVC SCH-35
CB39.070	CB39.080	79.06	0.01	158.35	157.56	8" PVC SCH-35
CB39.080	outlet	51.31	0.016	157.31	156.50	8" PVC SCH-35
CB41.010	CB41.020	88.04	0.01	161.50	160.62	6" PVC SCH-35
CB41.020	outlet	80.85	0.01	160.37	159.50	6" PVC SCH-35

Pipe From	To	Length/ft.	Slope	U/s Invert Level/ft.	D/s Invert Level/ft.	Pipe Size
CB42.010	CB42.020	101.73	0.01	162.00	160.98	6" PVC SCH-35
CB42.020	CB42.030	126.21	0.01	160.73	159.47	6" PVC SCH-35
CB42.030	outlet	79.65	0.01	159.22	158.42	6" PVC SCH-35
CB43.010	CB44.020	63.63	0.01	162.00	161.36	6" PVC SCH-35
CB44.010	CB44.020	77.37	0.01	162.00	161.23	6" PVC SCH-35
CB44.020	CB44.030	91.36	0.01	160.98	160.06	6" PVC SCH-35
CB44.030	outlet	116.20	0.01	159.31	158.00	6" PVC SCH-35
CB45.010	CB45.020	74.01	0.01	162.00	161.26	6" PVC SCH-35
CB45.020	CB44.030	62.36	0.01	161.01	160.39	6" PVC SCH-35
CB50.010	CB39.050	193.12	0.01	168.00	166.07	6" PVC SCH-35
CB60.010	CB60.020	167.49	0.02	198.00	192.00	6" PVC SCH-35
CB60.020	outlet	150.67	0.01	191.75	190.24	8" PVC SCH-35
CB70.010	CB1.100	266.78	0.01	174.67	172.00	12" PVC SCH-35

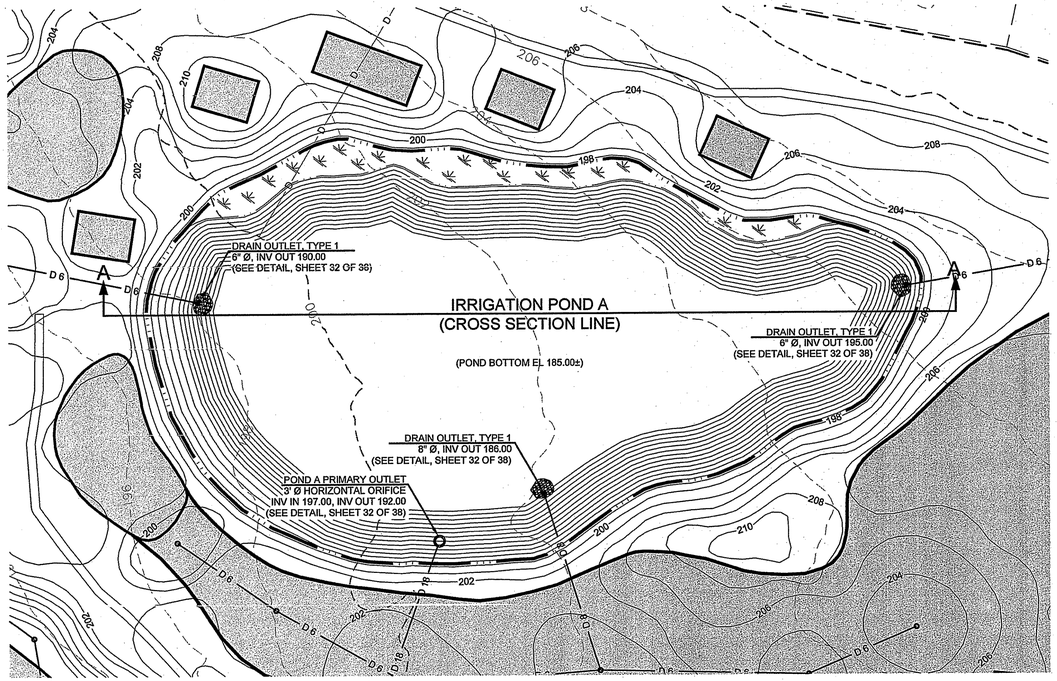
Newport National 3rd Nine Site
Drain Structure Schedule

Revision 0 Dec-04

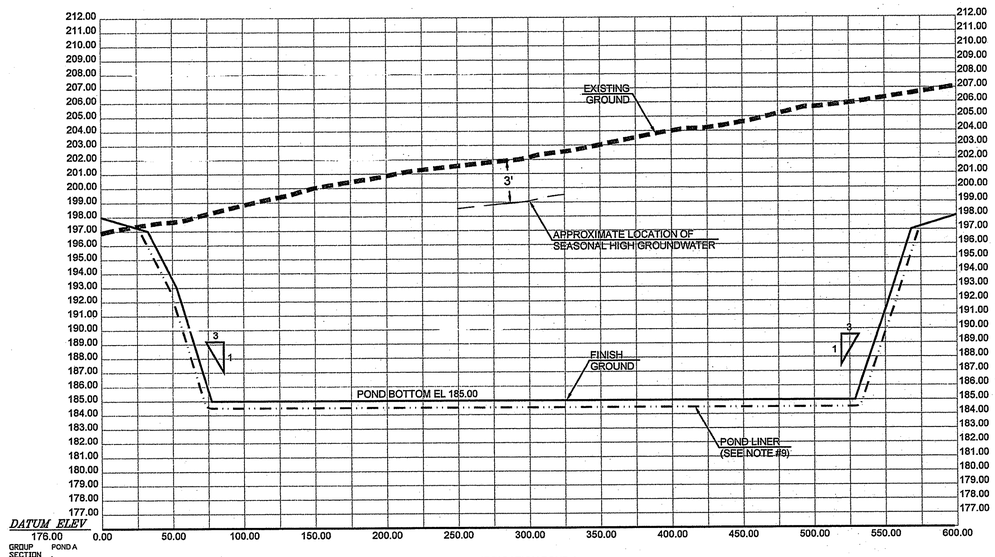
Number	Rim	Invert In	From	Invert Out	Sump (MIN)*	Type and Size	Grate
CB20.030	201.00	197.61	CB20.020	197.35	196.85	12" DB	12" H-10
CB20.040	203.00	196.56	CB20.030	196.56	196.06	12" DB	12" H-10
CB20.050	199.00	195.20	CB20.040	194.95	194.45	15" DB	15" H-10
CB20.060	200.65	192.91	CB20.050	192.66	192.16	12" DB	12" H-10
CB20.070	199.00	191.32	CB20.060	191.07	190.57	12" DB	12" H-10
CB25.010	209.00	N/A	N/A	206.00	205.50	12" DB	12" H-10
CB25.020	209.00	205.04	CB25.010	204.79	204.29	12" DB	12" H-10
CB25.030	209.00	204.20	CB25.020	203.95	203.45	12" DB	12" H-10
CB25.040	209.00	203.14	CB25.030	201.70	201.20	12" DB	12" H-10
		201.95	CB26.020				
CB25.050	207.00	200.72	CB25.040	200.47	199.97	12" DB	12" H-10
CB26.010	207.00	N/A	N/A	204.00	203.50	12" DB	12" H-10
CB26.020	207.00	203.25	CB26.010	203.00	202.50	12" DB	12" H-10
CB27.010	199.00	N/A	N/A	196.00	195.50	12" DB	12" H-10
CB27.020	203.00	195.16	CB27.010	190.43	187.43	4' CB	24" GRATE**
CB27.030	201.00	189.35	CB27.020	189.10	186.10	4' CB	24" GRATE**
CB27.040	201.00	187.76	CB27.030	187.51	184.51	4' CB	24" GRATE**
		197.46	CB28.020				
CB28.010	203.00	N/A	N/A	200.00	199.50	12" DB	12" H-10
CB28.020	203.00	199.18	CB28.010	198.93	198.43	12" DB	12" H-10
CB29.010	187.00	N/A	N/A	184.00	183.50	12" DB	12" H-10
CB31.010	195.00	N/A	N/A	192.00	191.50	12" DB	12" H-10

Number	Rim	Invert In	From	Invert Out	Sump (MIN)*	Type and Size	Grade
CB32.010	199.00	N/A	N/A	196.00	195.50	12" DB	12" H-10
CB32.020	199.00	194.92	CB32.010	192.29	191.79	12" DB	12" H-10
		192.54	CB33.020				
CB33.010	197.50	N/A	N/A	194.50	194.00	12" DB	12" H-10
CB33.020	197.50	193.91	CB33.010	193.66	193.16	12" DB	12" H-10
CB34.010	185.00	N/A	N/A	182.00	181.50	12" DB	12" H-10
CB36.010	181.00	N/A	N/A	178.00	177.50	12" DB	12" H-10
CB36.020	171.00	168.00	CB36.010	167.75	167.25	12" DB	12" H-10
CB37.010	175.00	N/A	N/A	172.00	171.50	12" DB	12" H-10
CB37.020	175.00	170.92	CB37.010	170.67	170.17	12" DB	12" H-10
CB37.030	173.00	169.20	CB37.020	165.37	164.87	12" DB	12" H-10
		165.62	CB36.020				
CB39.000	171.00	N/A	N/A	168.00	167.50	12" DB	12" H-10
CB39.010	171.00	167.00	CB39.010	166.75	166.25	15" DB	15" H-10
CB39.020	171.00	165.30	CB39.010	165.05	164.55	12" DB	12" H-10
CB39.030	175.00	163.71	CB39.020	163.46	160.46	4' CB	24" GRATE**
CB39.040	173.00	162.21	CB39.030	161.96	158.96	4' CB	24" GRATE**
CB39.050	175.00	160.86	CB39.040	160.61	157.61	4' CB	24" GRATE**
		166.07	CB50.010				
CB39.060	171.50	159.48	CB39.050	159.23	156.23	4' CB	24" GRATE**
CB39.070	169.50	158.60	CB39.060	158.35	155.35	4' CB	24" GRATE**
CB39.080	164.00	157.56	CB39.070	157.31	159.81	12" DB	12" H-10
CB40.010	163.00	N/A	N/A	N/A		Sump Box	12" H-10
CB40.020	163.00	N/A	N/A	N/A		Sump Box	12" H-10
CB40.030	161.00	N/A	N/A	N/A		Sump Box	12" H-10
CB41.010	164.50	N/A	N/A	161.50	161.00	12" DB	12" H-10
CB41.020	167.00	160.62	CB40.030	160.37	159.87	12" DB	12" H-10

| Number | Rim | Invert In | From | Invert



IRRIGATION POND A
SCALE: 1"=50'



IRRIGATION POND A
SCALE: HORIZONTAL 1"= 50'
VERTICAL 1"= 5'

NOTE

1. ALL DRAINAGE BASIN BERMS SHALL BE CONSTRUCTED OF CLEAN LOAM CONFORMING TO RIDOT SPECIFICATION M.18.01, OR OF SUITABLE ON-SITE FILL MATERIAL. SUITABLE ON-SITE FILL SHALL BE SCREENED LOOSE, FRIABLE SOIL THAT IS FREE OF REFUSE, STUMPS, ROOTS, ROCKS, COBBLES, STONES, BRUSH, NOXIOUS WEEDS, LITTER AND OTHER MATERIAL THAT WILL PREVENT THE FORMATION AND COMPACTION OF A STRUCTURALLY STABLE BERM AND THAT WILL PROVIDE A SUITABLE SEED BED. CONSTRUCTION OF BERMS MAY CONTINUE DURING COLD WEATHER, HOWEVER, FROZEN SOILS SHALL BE REMOVED AND SHALL NOT BE PERMITTED AS FILL FOR THE FORMATION OF BERMS. ALL BERMS SHALL BE CONSTRUCTED IN MAXIMUM12" LIFTS. EACH LIFT SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (AASHTO T180) BEFORE THE NEXT LIFT IS PLACED.
2. ALL BASINS AND SWALES SHALL BE CONSTRUCTED WITH A MINIMUM SIX INCH (6") DEPTH OF CLEAN LOAM TO FINISHED FLOOR GRADE, AND A MINIMUM FOUR INCH (4") DEPTH OF CLEAN LOAM TO FINISHED BERM, OR SLOPE GRADE. CLEAN LOAM SHALL CONFORM TO RIDOT SPECIFICATION M.18.01. LOAM APPLIED TO BASIN AND SWALE FLOORS SHALL BE HAND RAKED BEFORE SEEDING. UNDER NO CIRCUMSTANCES SHALL BASIN OR SWALE FLOORS BE COMPACTED USING MACHINERY.
3. BASINS SHALL BE SEEDED WITH NEW ENGLAND RESTORATION/EROSION CONTROL MIX, BY NEW ENGLAND WETLAND PLANTS, INC, OR AN APPROVED EQUIVALENT.
4. IF SWALES, BASIN BERMS OR SLOPES ARE CONSTRUCTED OUTSIDE THE NORMAL GROWING SEASON FOR THE SPECIFIED SEED MIX, TEMPORARY STABILIZATION SHALL BE PROVIDED BY THE APPLICATION OF A BIODEGRADABLE EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S75BN, OR SIMILAR)
5. ALL STORM DRAIN OUTLETS TO BASINS AND SWALES SHALL BE CONSTRUCTED WITH FLARED END SECTIONS.
6. ALL PERFORATED DRAINAGE PIPES SHALL BE CONSTRUCTED WITH A FILTER FABRIC SURROUND.
7. IF LEDGE, OR GROUNDWATER IS ENCOUNTERED DURING EXCAVATION FOR BASINS, SWALES, OR INFILTRATION TRENCHES, THE NATURAL GROUND SHALL BE BLASTED, OR EXCAVATED AS NECESSARY TO A MINIMUM DEPTH OF THREE FEET BENEATH THE DESIGN FLOOR ELEVATION OF THE STRUCTURE. THE REMOVED MATERIAL SHALL BE REPLACED WITH CRUSHED GRAVEL, CRUSHED ROCK, OR SUITABLE PERVIOUS FILL THAT SHALL EXTEND AS FAR DOWNSTREAM FROM THE STRUCTURE AS NECESSARY TO PROVIDE POSITIVE DRAINAGE FOR ANY GROUNDWATER ENCOUNTERED. SUITABLE PERVIOUS FILL MATERIAL SHALL BE INSPECTED AND APPROVED BY THE PROJECT ENGINEER PRIOR TO USE.
8. FOR DETAIL OF BASIN OVERFLOW WEIR SEE SHEET 32 OF 38.
9. POND A AND POND B SHALL BE LINED WITH BEND TARP AND LINER, PPL-24 OR EQUAL. LINER MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

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WWW.NORTHEASTENGINEERS.COM

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 JUN 2 7 2007 FILE # 07-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Joseph Casey

No.	Revision	Date	App.

Designed By: LES | Drawn by: CSM | Checked by:
Scale: AS SHOWN | Date: 03JAN05

Project Title:
NEWPORT NATIONAL GOLF CLUB
WEST COURSE
AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:
IRRIGATION POND "A" X-SECTION

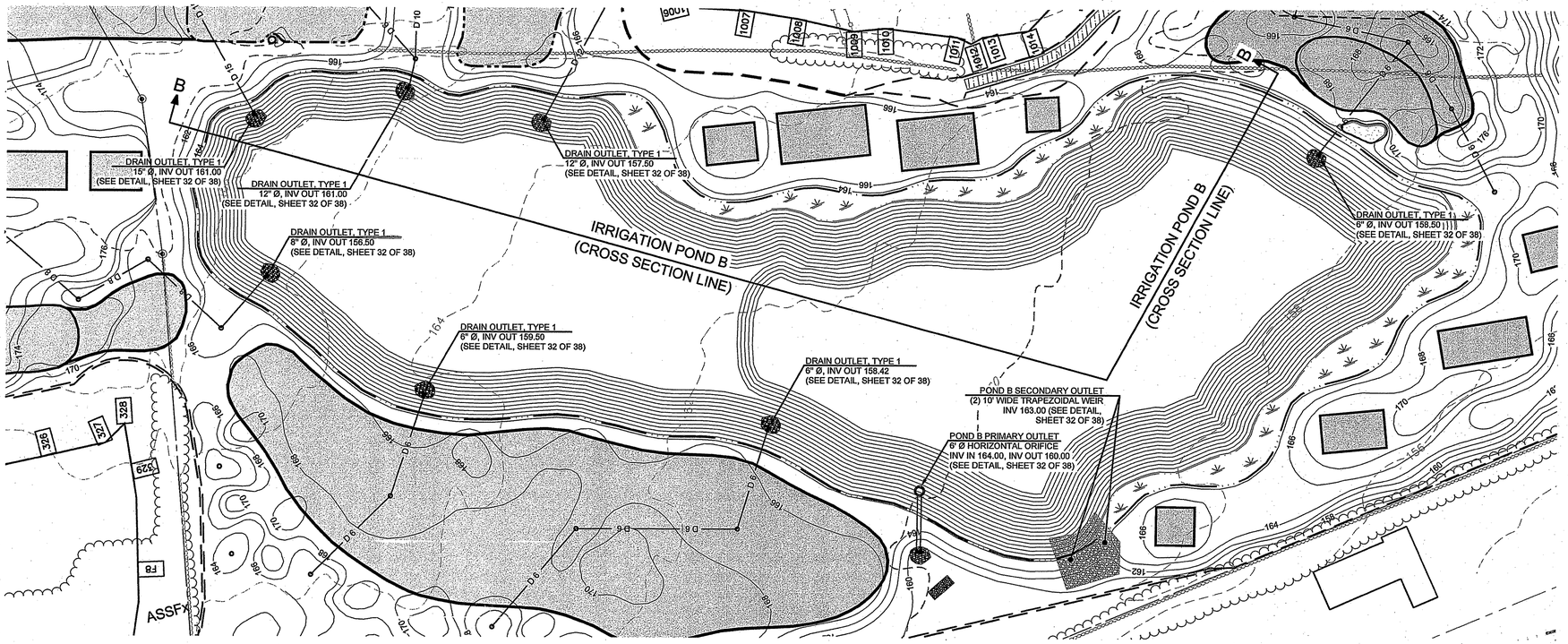
A. ERIC OFFENBERG
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: PS-1
Sheet 30a of 38
Project Number: 04068.3
Survey Index: – –

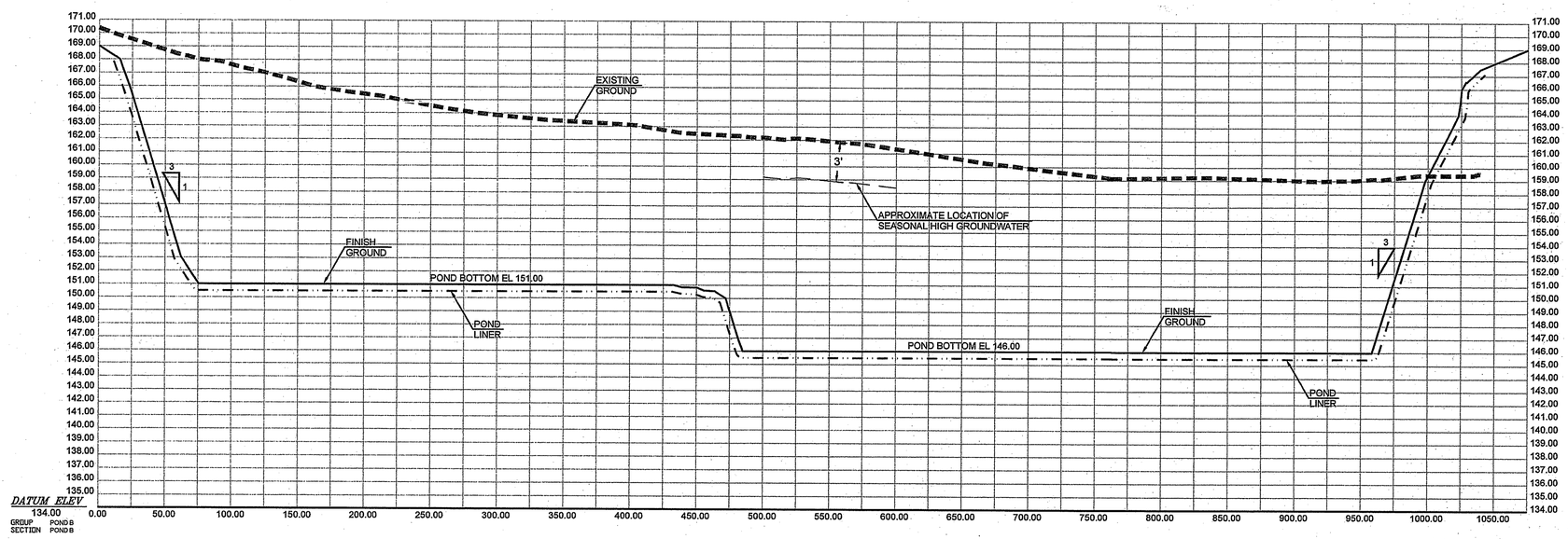
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IRRIGATION POND B
SCALE: 1"=50'



IRRIGATION POND B
SCALE: HORIZONTAL 1"= 50'
VERTICAL 1"= 5'

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NOTE

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2.ALL BASINS AND SWALES SHALL BE CONSTRUCTED WITH A MINIMUM SIX INCH (6") DEPTH OF CLEAN LOAM TO FINISHED FLOOR GRADE, AND A MINIMUM FOUR INCH (4") DEPTH OF CLEAN LOAM TO FINISHED BERM, OR SLOPE GRADE. CLEAN LOAM SHALL CONFORM TO RIDOT SPECIFICATION M.18.01. LOAM APPLIED TO BASIN AND SWALE FLOORS SHALL BE HAND RAKED BEFORE SEEDING. UNDER NO CIRCUMSTANCES SHALL BASIN OR SWALE FLOORS BE COMPACTED USING MACHINERY.

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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 JUN 2 7 2007 FILE # 07-0339
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
W. Joseph Casey

No.	Revision	Date	App.

Designed By: LES | Drawn by: CSM | Checked by:
Scale: AS SHOWN | Date: 03JAN05

Project Title:
NEWPORT NATIONAL GOLF CLUB
WEST COURSE
AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:
IRRIGATION POND "B" X-SECTION

A. ERIC OFFENBERG
7-10-07
No. 7866
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

Drawing Number: PS-2
Sheet 30b of 38
Project Number: 04068.3
Survey Index: _ _

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EROSION CONTROL NOTES

1. CONSTRUCTION SEQUENCE:

A. DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE, AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.
B. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES ON MITCHELL'S LANE AND WYATT ROAD. CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THESE ENTRANCES.
C. INSTALL SILT FENCES AND/OR HAY BALES AS INDICATED ON THE DRAWINGS TO CONTROL EROSION AND PREVENT SEDIMENT CONTAMINATION OF STREAMS AND WETLANDS PRIOR TO ANY EARTH MOVING ACTIVITIES.
D. REMOVE TREES WHERE NECESSARY.
E. EXCAVATE BASINS/PONDS IN ACCORDANCE WITH THE PLANS AND DETAILS.
F. START BUILDING AND ROAD CONSTRUCTION.
G. INSTALL THE REQUIRED DRAINAGE.
H. CONSTRUCT LANDSCAPED AREAS. MAINTAIN SITE IN ACCORDANCE WITH THE MAINTENANCE NOTES.

2. GENERAL NOTES

A. DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.
B. ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE STABILIZED WITHIN FOURTEEN DAYS IN ACCORDANCE WITH TEMPORARY MEASURES IN THE VEGETATIVE PRACTICE NOTES.
C. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOP SOIL TO REMOVE VEGETATION, ROOTS, AND ANY OTHER OBJECTIONABLE MATERIAL.
D. ALL FILL SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT SUBSIDENCE, OR OTHER RELATED PROBLEMS.
E. FILL INTENDED TO SUPPORT BUILDING STRUCTURES AND CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL CODES AND SPECIFICATIONS.
F. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 12" IN THICKNESS.
G. FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
H. FROZEN, SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIAL SHALL NOT BE INCORPORATED INTO FILLS.
I. FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION SUBGRADE.
J. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
K. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF FINISH GRADING IN ACCORDANCE WITH THE VEGETATIVE PRACTICE NOTES.
L. REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.

3. VEGETATIVE PRACTICE

PERMANENT MEASURES

A. SLOPES SHALL NOT BE STEEPER THAN 1 VERTICAL TO 3 HORIZONTAL UNLESS OTHERWISE SPECIFIED.
B. LOAM AND SEED REQUIREMENTS ARE SPECIFIED IN THE TURF MANAGEMENT PLAN.
C. A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED. THE LOAM SHALL BE GRADED TO A SMOOTH CONDITION AND STONES AND OTHER OBJECTS LARGER THAN 2 INCHES SHALL BE REMOVED. TEMPORARY MEASURES (FOR TEMPORARY PROTECTION OF DISTURBED AREAS)
D. LIMESTONE AND FERTILIZER SHALL BE APPLIED AT THE FOLLOWING RATE:
LIMESTONE: 3 TONS/ACRE
FERTILIZER: (10-10-10): 600 LBS/ACRE
E. SEED SHALL BE APPLIED AT THE FOLLOWING RATE:
WINTER RYE: 112 LB/ACRE
F. HAY MULCH SHALL BE APPLIED AT THE RATE OF 1.5 TONS/ACRE.

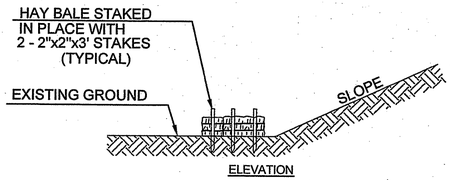
4. BASIN/POND EXCAVATION

A. INSTALL SILT FENCE AND SILT CURTAIN AS INDICATED ON THE PLANS.
B. EXCAVATE THE PROPOSED BASINS/PONDS.
C. INSTALL LINER AS RECOMMENDED BY THE MANUFACTURER.
D. LOAM AND SEED IN ACCORDANCE WITH TURF MANAGEMENT PLAN NOTES.
E. LEAVE SILT CURTAIN IN PLACE AROUND BASIN PERIMETER UNTIL COMPLETION OF PROJECT.
F. IF DEWATERING IS REQUIRED FOR PROPER CONSTRUCTION, USE DEWATERING BASIN AS SHOWN ON THIS SHEET.

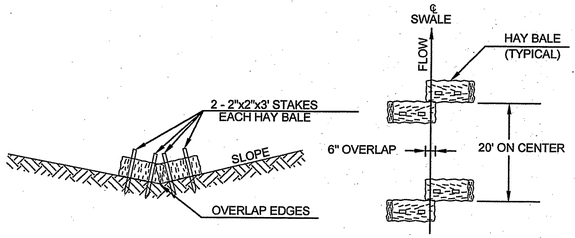
5. MAINTENANCE

DURING THE PERIOD OF CONSTRUCTION AND/OR UNTIL LONG TERM VEGETATION IS ESTABLISHED, NORTHEAST ENGINEERS AND CONSULTANTS, INC., WILL CONDUCT INSPECTIONS OF THE EROSION CONTROL MEASURES.

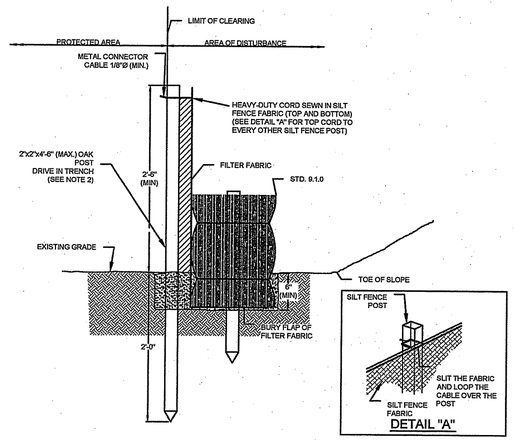
A. SILT FENCES AND HAY BALES SHALL BE INSPECTED AS INDICATED IN THE DETAILS. AT A MINIMUM THE SILT FENCING AND HAY BALES SHALL BE INSPECTED AND REPAIRED ONCE A WEEK AND/OR IMMEDIATELY FOLLOWING A SIGNIFICANT RAINFALL OR SNOWMELT. SEDIMENT TRAPPED BEHIND THE BARRIERS SHALL BE EXCAVATED WHEN IT REACHES A DEPTH OF 6" AND REGRADED ON THE SITE.
B. EXCELSIOR MATTING SHALL BE INSPECTED ON A WEEKLY BASIS.
C. STONE APRONS SHALL BE INSPECTED MONTHLY FOR EXCESSIVE ACCUMULATION OF SEDIMENT. IT MAY BE NECESSARY TO REMOVE STONES, EXCAVATE SEDIMENT, AND REPLACE STONES.
D. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE REMOVED PRIOR TO PAVING. DURING CONSTRUCTION THE ENTRANCE SHALL BE INSPECTED WEEKLY, AND REESTABLISHED AS NECESSARY.
E. SEEDED AREAS WILL BE FERTILIZED AND RESEEDED AS NECESSARY TO INSURE ESTABLISHMENT OF VEGETATION.



HAY BALE SEDIMENT BARRIER
N.T.S.



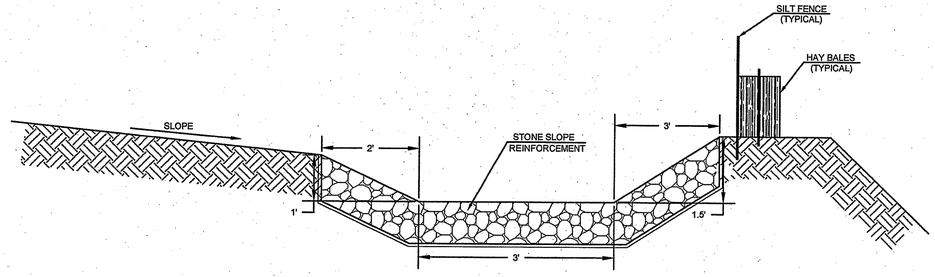
HAY BALE CHECK DAM
N.T.S.



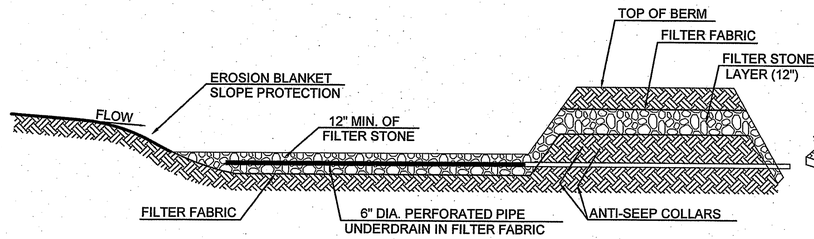
NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 206 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 SLIT. STD. 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2"x2"x4'-6" (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 RAVINE, GULLY OR DROP OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x4'-6" (MIN.) POSTS ARE PERMITTED FOR PRE-FABRICATED SILT FENCE.
4. SILT FENCE AND BALED HAY SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

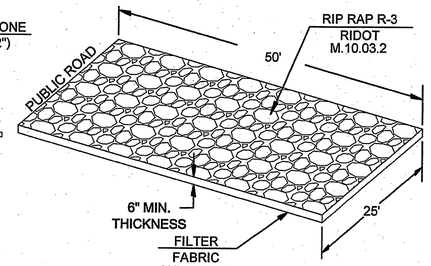
BALED HAY EROSION CHECK & SILT FENCE COMBINED
(RIDOT 9.3.0)
N.T.S.



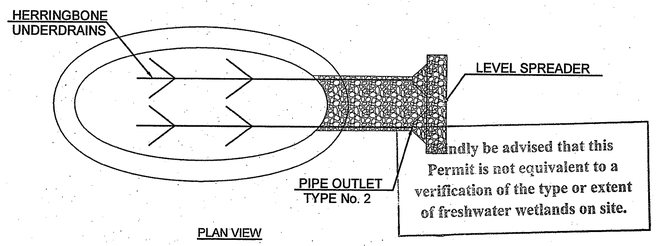
DIVERSION/ SILT TRAP
N.T.S.



CROSS SECTION

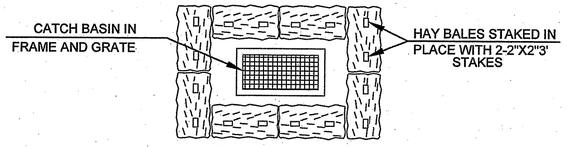


CONSTRUCTION ENTRANCE
(2 THUS)
N.T.S.

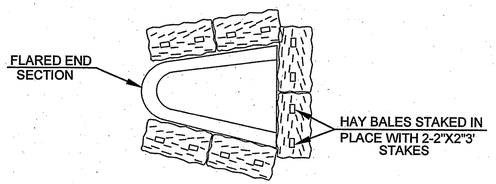


PLAN VIEW

TEMPORARY DEWATERING BASIN
N.T.S.



PLAN



PLAN

HAY BALE INLET/OUTLET STRUCTURE
N.T.S.

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 JUN 27 2007 FILE # 07-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Joseph Casey

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MAY 25 2007
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OFFICE OF WATER RESOURCES

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No.	Revision	Date	App.

Designed By: TAV | Drawn by: CSM | Checked by:
Scale: N.T.S. | Date: 03JAN05

Project Title:
NEWPORT NATIONAL GOLF CLUB
WEST COURSE
AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

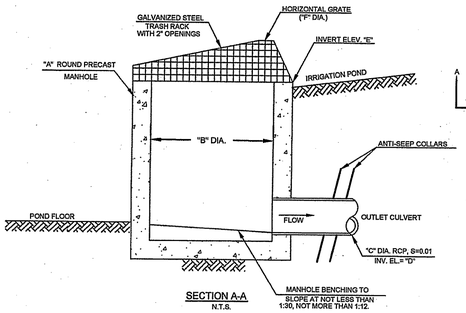
Drawing Title:
SOIL EROSION & SEDIMENT CONTROL DETAILS

A. ERIC OFFENBERG
7-10-07
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

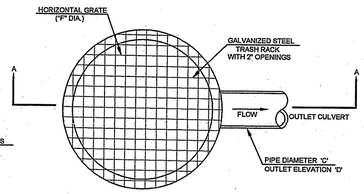
Drawing Number: D-1
Sheet 31 of 38
Project Number: 04068.3
Survey Index: – –

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P:\Projects\2004\04068 NEWPORT NATIONAL GOLF-WEST COURSE\DRAWINGS\CURRENT\PROPOSED\04068_C1.DWG



SECTION A-A
N.T.S.

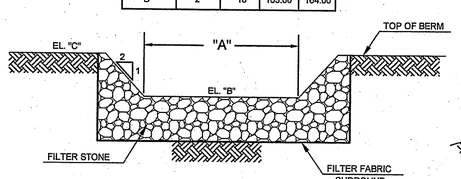


PLAN VIEW
N.T.S.

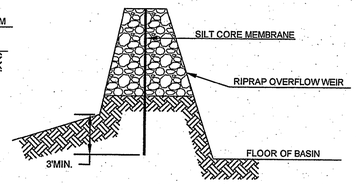
STRUCTURE ELEVATION CHART							
POND	NO. OF OUTLETS	"A"	"B"	"C"	"D"	"E"	"F"
A	1	4' Ø (RIDOT 4.2.0)	36"	18"	192.00	197.00	36" Ø
B	2	6' Ø (RIDOT 4.2.1)	48"	24"	160.00	163.00	48" Ø

PONDS A & B PRIMARY OUTLET STRUCTURE
N.T.S.

POND	No. OF OUTLETS	"A"	"B"	"C"
B	2	10'	163.00	164.00



POND B OUTLET STRUCTURE OVERFOW WEIR
N.T.S.

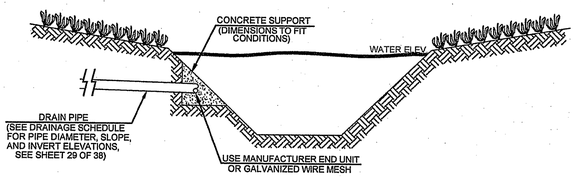


OVERFLOW WEIR
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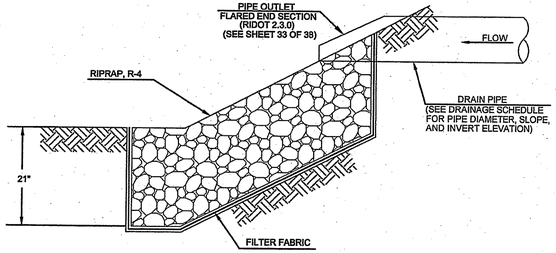
BASIN DETAIL NOTES:

1. FILTER STONE FOR PIPE SURROUND AND OUTLET PROTECTION SHALL CONFORM TO RIDOT 10.03.01. NATIONAL STONE ASSOCIATION FILTER STONE, MODIFIED NSA No. FS-2.
2. RIPRAP STONE FOR OUTLET PROTECTION SHALL CONFORM TO RIDOT M.10.03.2. NATIONAL STONE ASSOCIATION GRADED RIPRAP STONE MODIFIED NSA No. R-4, UNLESS OTHERWISE STATED.
3. ALL PERFORATED PIPES SHALL BE ADS N-12 TYPE S UNLESS OTHERWISE SPECIFIED.
4. ANY ALTERNATIVE MATERIALS PROPOSED BY THE CONTRACTOR MUST RECEIVE THE PRIOR APPROVAL OF THE ENGINEER AND THE CLIENT.
5. SILT CORE MEMBRANE SHALL BE COMPRISED OF SILTY SANDS WITH A MINIMUM PERCENT OF FINES PROVIDING A POROSITY OF $1x10^{-6}$ cm^2/s. MATERIAL SHALL CONSIST OF 30% FINES WITH A 2 INCH MAXIMUM. CORE SHALL BE COMPACTED A MINIMUM OF 90% TESTING OF MOISTURE CONTENT AND COMPACTION IS RECOMMENDED.

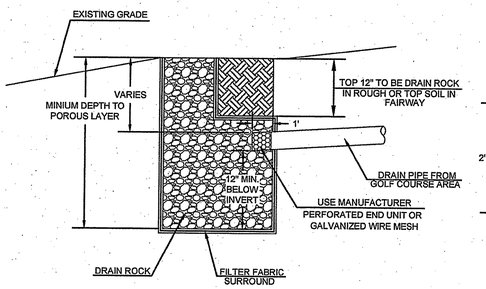
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DRAIN OUTLET (TYPE 1)
N.T.S.

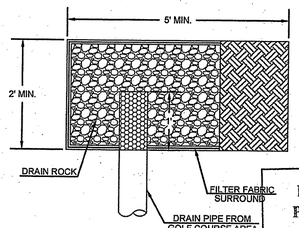


DRAIN OUTLET DETAIL TYPE No. 2
N.T.S.



SECTION VIEW

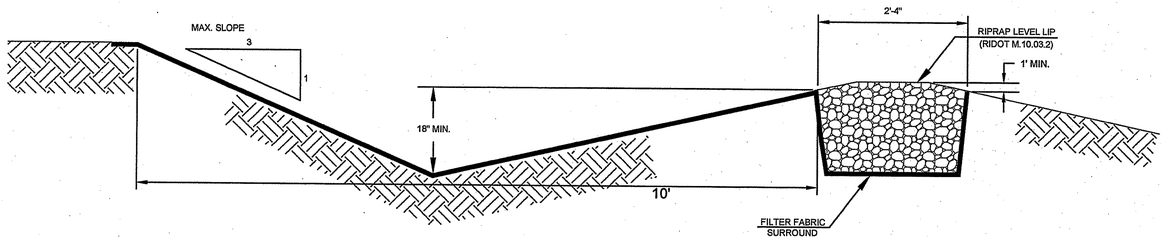
**DO NOT USE VERTICAL DRAIN SUMP IF GROUND WATER WILL BE ADVERSELY AFFECTED.



PLAN VIEW

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

DRAIN OUTLET DETAIL TYPE No. 3
N.T.S.

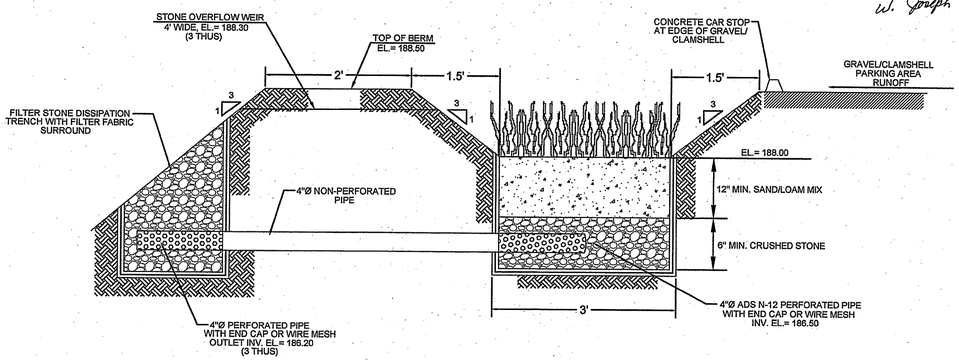


LEVEL SPREADER
N.T.S.

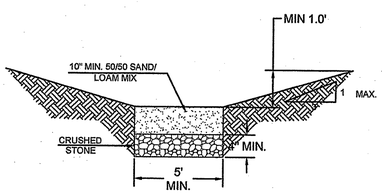
DRAINAGE STRUCTURE NOTES:

1. ALL DRAIN INLETS DEEPER THAN 10 FEET TO BE 4 FOOT DIAMETER CATCH BASINS IN ACCORDANCE WITH RIDOT REQUIREMENTS.
2. ALL STORMWATER INLET GRATES TO HAVE SLOTTED OPENINGS NO GREATER THAN 1/2 INCH.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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W. Joseph Casey



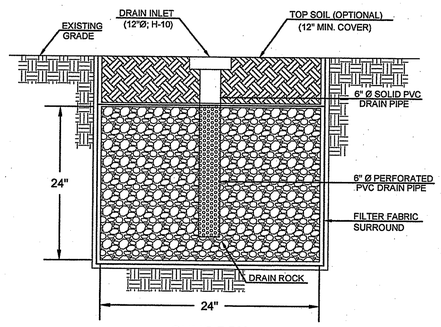
BIORETENTION SWALE
N.T.S.



NOTES:

1. GRAVEL UNDERDRAIN SHALL BE CONSTRUCTED WITH CRUSHED STONE CONFORMING TO COLUMN II, TABLE I OF RIDOT SPECIFICATION M.01.09.
2. SWALES SHALL BE SEEDED WITH NEW ENGLAND RESTORATION/EROSION CONTROL MIX BY NEW ENGLAND WETLAND PLANTS, INC..

DRY SWALE DETAIL
N.T.S.



SUMP BOX
N.T.S.

No.	Revision	Date	App.

Designed By: TAV | Drawn by: CSM | Checked by:
Scale: N.T.S. | Date: 03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE
AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:
DRAINAGE DETAILS

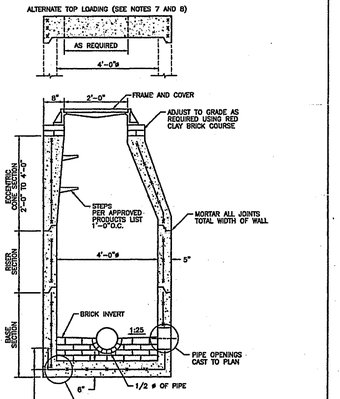
A. ERIC OFFENBERG
7-19-05
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: D-2
Sheet 32 of 38
Project Number: 04068.3
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P:\Projects\2004\04088 NEWPORT NATIONAL GOLF-WEST COURSE\DRAWINGS\CURRENT\PROPOSED\04068_C1.DWG



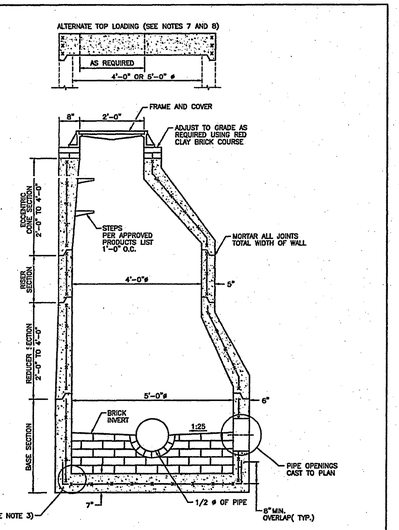
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQ. IN. / LIN. FT. MINIMUM.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN/LIN. FT. (BOTH WAYS).
4. ONE POUR MONOLITHIC BASE SECTION.
5. 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.
6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PRECAST 4'-0" ROUND MANHOLE

JUNE 15, 1998

R.I. STANDARD 4.2.0



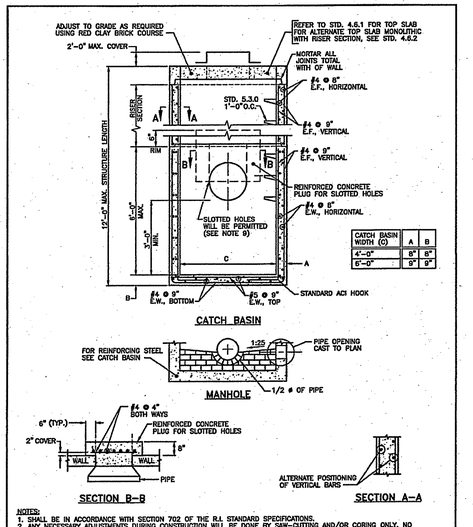
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.15 SQ. IN./LIN. FT. MINIMUM.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
4. ONE POUR MONOLITHIC BASE SECTION.
5. 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.
6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.0).
8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PRECAST 5'-0" ROUND MANHOLE

JUNE 15, 1998

R.I. STANDARD 4.2.1



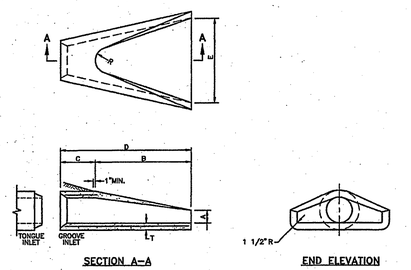
NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
3. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
4. TOP SLAB, RISER AND BASE SECTIONS HAVE BEEN REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB, RISER AND BASE SECTIONS ARE DESIGNED FOR AXLE LOAD OF NO GREATER THAN 20 TONS.
5. THERE IS TO BE 2" MINIMUM COVER ON ALL REBAR.
6. ALL REBARS ARE TO HAVE MINIMUM 2" CLEARANCE FROM OPENING.
7. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
8. THE SPLICE LENGTHS ON TIES ARE TO BE A MINIMUM OF 1'-7".
9. WHERE THE CLEARANCE FROM THE TOP OF THE PIPE TO THE RIM IS "B" OR LESS, PLUGS SHALL BE USED IN CONJUNCTION WITH SLOTTED HOLES. NO SLOTTED HOLE WILL BE PERMITTED WHERE THE CLEARANCE IS GREATER THAN B". IN CASES WHERE SLOTTED HOLES ARE NOT USED AND THE WALL OPENING COMES WITHIN 1'-3" OF THE RIM, AN ADDITIONAL #6 BAR SHALL BE USED ABOVE THE OPENING THE WIDTH "C" OF THE WALL.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PRECAST 4'-0" OR 5'-0" SQUARE MANHOLE OR CATCH BASIN

JUNE 15, 1998

R.I. STANDARD 4.3.0



SECTION A-A

END ELEVATION

DIA.	DIMENSIONS A	B	C	D	E	R	T	REINFORCEMENT ONE LAYER REINFORCEMENT IN CENTER OF WALL: MIN. AREA OF EACH WAY (SQ. IN./FT.)
1'-0"	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	9"	2"	0.048
1'-3"	6"	2'-3"	3'-10"	6'-1"	2'-6"	11"	2 1/4"	0.054
1'-6"	9"	2'-3"	3'-10"	6'-1"	3'-0"	13"	2 1/2"	0.060
2'-0"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	1'-2"	3"	0.072
2'-6"	1'-0"	4'-6"	1'-7 3/4"	6'-1 3/4"	5'-0"	1'-3"	3 1/2"	0.084
3'-0"	1'-3"	5'-3"	2'-10 3/4"	6'-1 3/4"	6'-0"	1'-8"	4"	0.096
3'-6"	1'-9"	6'-3"	2'-11"	8'-2"	6'-6"	1'-10"	4 1/2"	0.108
4'-0"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	1'-10"	5"	0.120
4'-6"	2'-3"	6'-6"	2'-11"	8'-4"	7'-8"	2'-0"	5 1/2"	0.132
5'-0"	2'-6"	7'-0"	3'-3"	8'-3"	8'-0"	2'-0"	6"	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

JUNE 15, 1998

R.I. STANDARD 2.3.0

DRAINAGE STRUCTURE NOTES:

1. ALL DRAIN INLETS DEEPER THAN 10 FEET TO BE 4 FOOT DIAMETER CATCH BASINS IN ACCORDANCE WITH RIDOT REQUIREMENTS.
2. ALL STORMWATER INLET GRATES TO HAVE SLOTTED OPENINGS NO GREATER THAN 1/2 INCH.

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OFFICE OF WATER RESOURCES
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DATED JUN 27 2007 FILE # 07-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Gregory Carey

No.	Revision	Date	App.

Designed By: TAV | Drawn by: CSM | Checked by:
Scale: N.T.S. | Date: 03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

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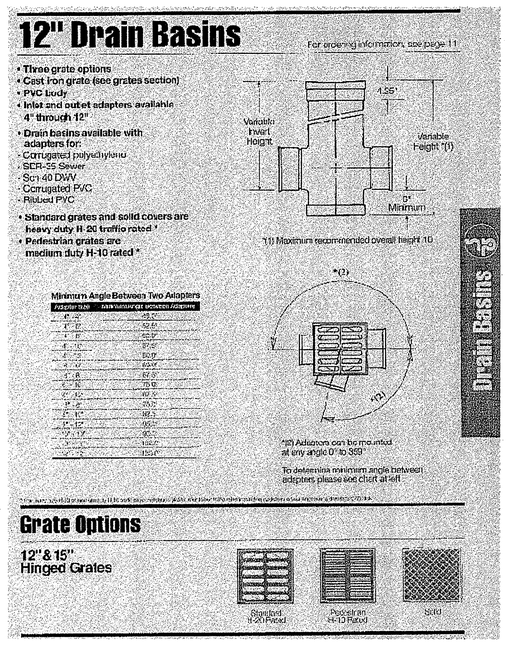
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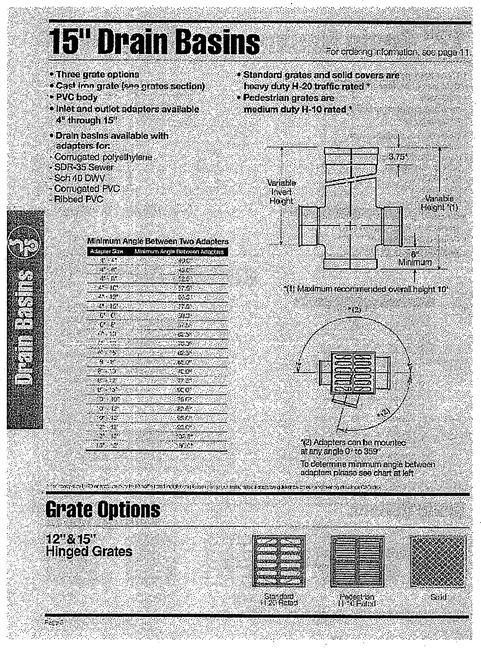
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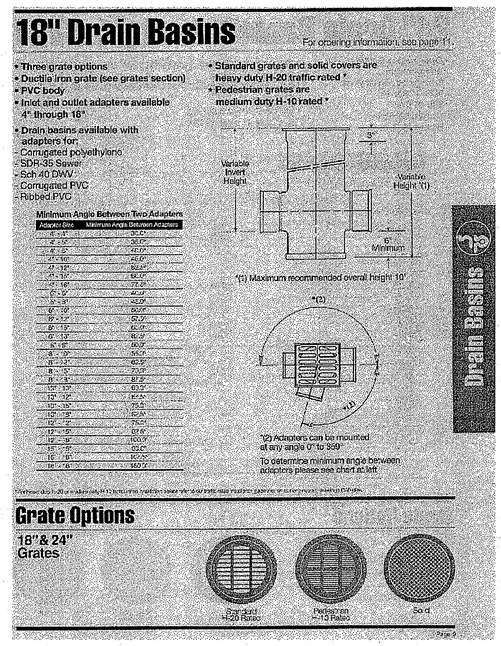
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Sheet 33 of 38
Project Number: 04068.3
Survey Index: – –

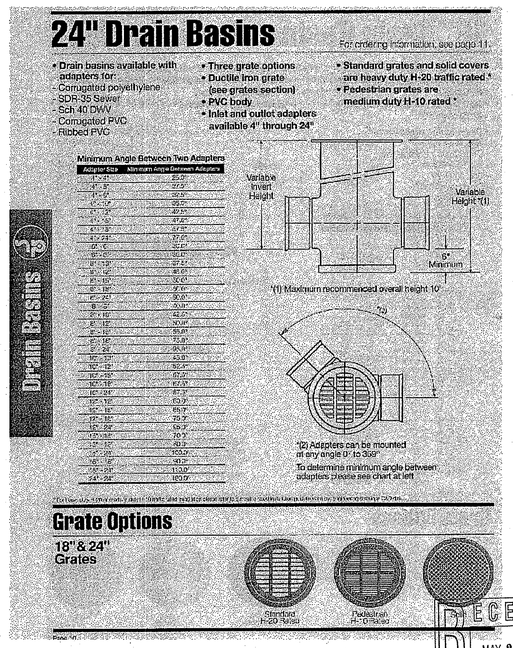
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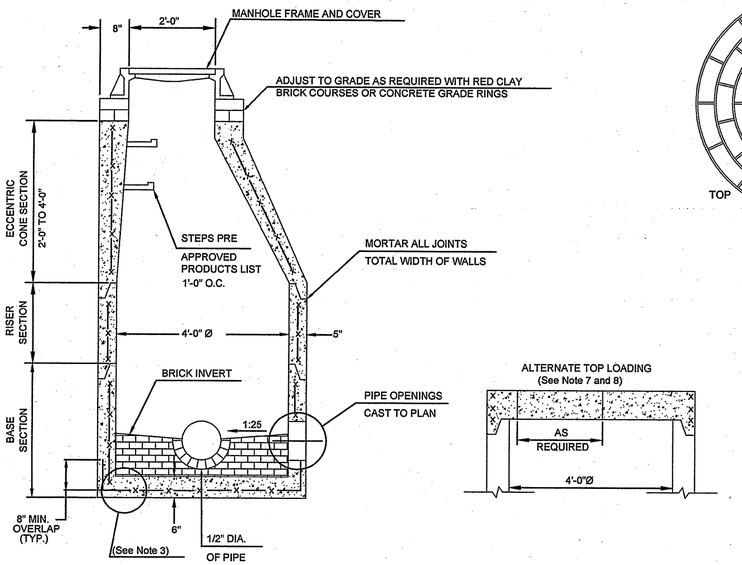






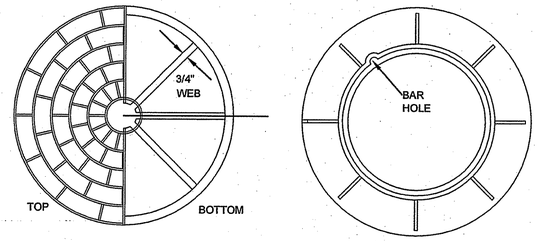


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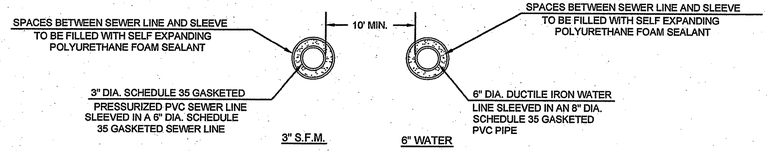


NOTES:
1. SHALL BE IN ACCORDNANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED =0.12 SQ. IN./LIN.FT. MINIUM.
3. STEEL REINFORCEMENT FOR BASE SECTION SHALL BE A MINIUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
4. ONE POUR MONOLITHIC BASE SECTION.
5. 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.
6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.
10. BENCHING TO SLOPE AT NOT LESS THAN 1:30, NOT MORE THAN 1:12.
11. ALL SEWER MANHOLES SHALL HAVE WATERTIGHT GASKETS AND JOINT SEALENTS.

SEWER MANHOLE DETAIL
4'-0" ROUND
(RIDOT 4.2.0)
N.T.S.



ROUND FRAME & COVER
(RIDOT 6.2.1)
N.T.S.



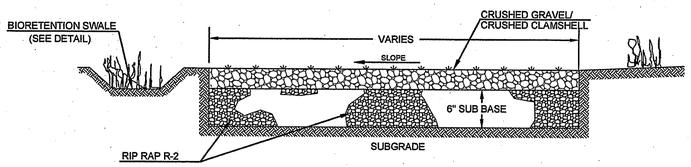
NOTES:
1. SLEEVING PIPES SHALL BE RING-TITE GASKETED PVC SEWER PIPE OR SIMILAR APPROVED.
2. FOAM SEALENT SHALL BE WILLSEAL BY ILLBRUCK OR SIMILAR APPROVED.
3. REFER TO TRENCH DETAILS ON SHEETS 35 OF 38 FOR ADDITIONAL INFORMATION.

SEWER PIPE SLEEVE DETAIL
N.T.S.

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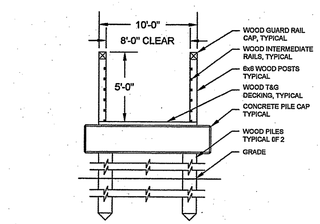
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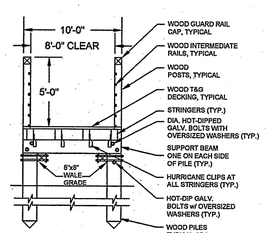


NOTES:
1. CRUSHED GRAVEL SHALL CONFORM TO THE DIMENSIONAL REQUIREMENTS OF COLUMN III TABLE 1 RIDOT M.01.09.
2. SUBGRDAE SHALL BE PLACED AND COMPACTED TO ACCORDING TO RIDOT STANDARD SPECIFICATION 301.03.2.
3. SUBGRADE TO BE COMPACTED TO 95% OF MAXIMUM DENSITY(ASTM D-1557), MEASURED TO A DEPTH OF 12".
4. RIP RAP R-2 SHALL BE NATIONAL STONE ASSOCIATION MODIFIED NSA No. R-2, RIDOT M.10.03.1.

GRAVEL/CLAMSHELL PARKING CROSS SECTION
N.T.S.

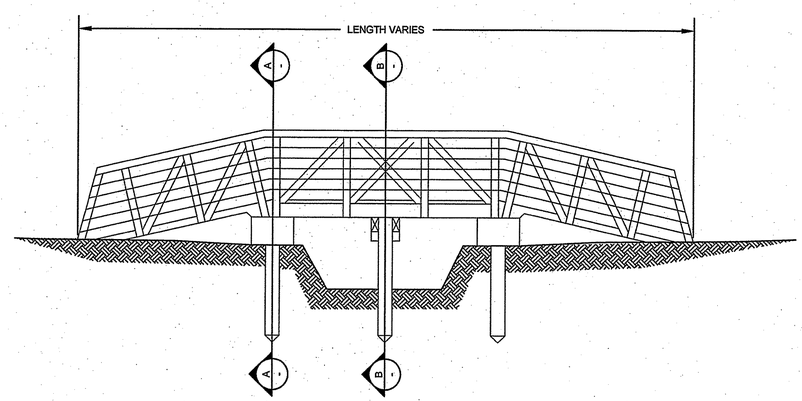


A SECTION A
SCALE: NTS



B SECTION B
SCALE: NTS

RAISED WOODEN CART PATH DETAIL SECTIONS
N.T.S.



GOLF COURSE RAISED WOODEN CART PATH DETAIL (TYPICAL)
N.T.S.

No.	Revision	Date	App.

Designed By: TAV | Drawn by: CSM | Checked by:
Scale: N.T.S. | Date: 03JAN05

Project Title:
NEWPORT NATIONAL GOLF CLUB
WEST COURSE
AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
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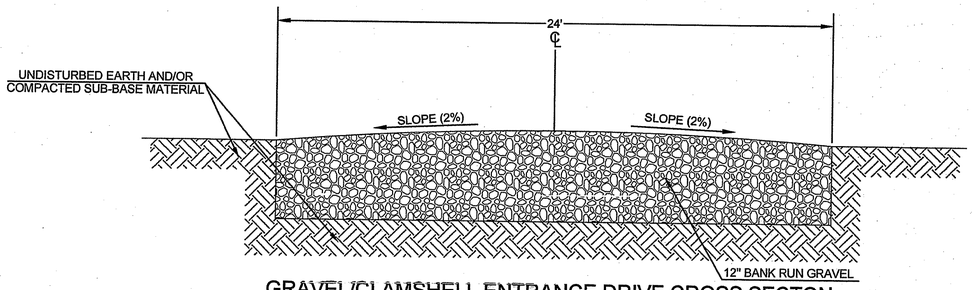
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Drawing Number: D-4
Sheet 34 of 38
Project Number: 04068.3
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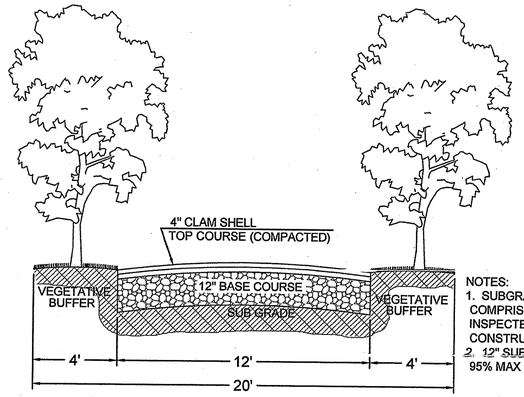
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GRAVEL/CLAMSHELL ENTRANCE DRIVE CROSS SECTON

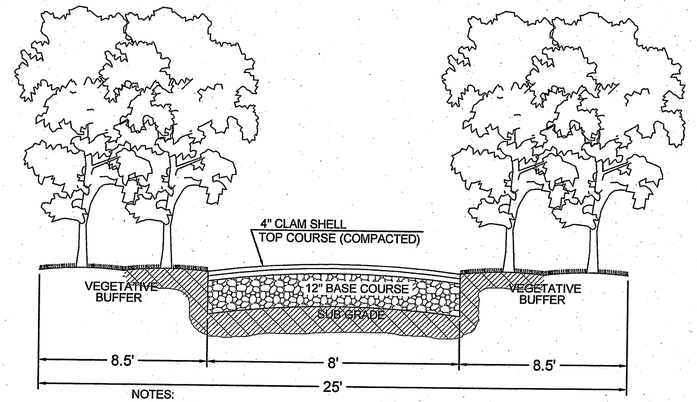
N.T.S.



NOTES:
1. SUBGRADE & BASE COURSE SHALL BE COMPRISED OF SUITABLE MATERIAL AND INSPECTED BY ENGINEER PRIOR TO CONSTRUCTION.
2. 12" SUB-COURSE TO BE COMPACTED TO 95% MAX DRY DENSITY AS PER ASTM D-1557.

MAINTENANCE PATH EASEMENT (TYPICAL)

N.T.S.



NOTES:
1. SUBGRADE & BASE COURSE SHALL BE COMPRISED OF SUITABLE MATERIAL AND INSPECTED BY ENGINEER PRIOR TO CONSTRUCTION.
2. 12" SUB-COURSE TO BE COMPACTED TO 95% MAX DRY DENSITY AS PER ASTM D-1557.

CART PATH EASEMENT (TYPICAL)

N.T.S.

STORMWATER SYSTEM MAINTENANCE SCHEDULE

1. GRASSES SHALL BE PLANTED AROUND AND WITHIN ALL DETENTION BASINS IMMEDIATELY FOLLOWING CONSTRUCTION TO STABILIZE SLOPES AND PREVENT EROSION. TREES AND SHRUBS ARE NOT TO BE PLANTED ON BASIN SLOPES.
2. ALL OUTFLOW STRUCTURES ARE TO BE INSPECTED AT LEAST THREE TIMES IN THE FIRST SIX MONTHS OF OPERATION. EVIDENCE OF CLOGGING OR RAPID RELEASE OF FLOW SHALL BE REPORTED AND REMEDIED IMMEDIATELY.
3. SIDE SLOPES, EMBANKMENTS, AND THE UPPER STAGES OF ALL DETENTION BASINS ARE TO BE MOWED AT LEAST THREE TIMES PER GROWING SEASON, TO PREVENT UNWANTED GROWTH, AND TO MAINTAIN THE CAPACITY AND INTEGRITY OF THE FACILITIES. MOWING SHOULD INCLUDE THE REMOVAL OF WOODY GROWTH, WHICH MAY COMPROMISE THE INTEGRITY OF THE BASIN SLOPES.
4. THE GRASSED AREAS OF ALL BASINS ARE TO BE INSPECTED AT LEAST TWICE A YEAR TO CHECK FOR EROSION PROBLEMS. AREAS SUBJECT TO EROSION PROBLEMS SHOULD BE RE-SEEDED IMMEDIATELY TO STABILIZE ANY EXPOSED SOILS.
5. TRASH, LITTER AND OTHER DEBRIS ARE TO BE REMOVED FROM ALL STORMWATER FACILITIES AT LEAST TWICE A YEAR TO PREVENT BLOCKAGE OF INLET AND OUTLET STRUCTURES, AND HENCE FAILURE OF THE STRUCTURE. WHERE THE AMOUNTS OF DEBRIS FOUND ARE LARGE, A CAREFUL INSPECTION OF ALL ADJACENT INLET AND OUTLET STRUCTURES SHALL BE UNDERTAKEN, TO IDENTIFY ANY DAMAGE THAT MAY HAVE OCCURRED.
6. IF A BLOCKAGE OCCURS TO A BASIN OUTLET, IT MAY NECESSARY TO DRAIN THE BASIN IN ORDER TO EFFECT A REPAIR. ALL WATER THAT IS DRAINED FROM THE BASIN SHALL BE ADEQUATELY FILTERED TO REMOVE SUSPENDED SOLIDS PRIOR TO DISCHARGE TO A RECEIVING BODY.
7. ALL CATCH BASINS SHALL BE INSPECTED AT LEAST TWICE A YEAR TO CHECK FOR DEBRIS REMOVAL AND THE PRESENCE OF POTENTIAL POLLUTANTS. CATCH BASINS AND MANHOLES SHALL BE INSPECTED TWICE A YEAR FOR STRUCTURAL INTEGRITY.
8. SEDIMENTS SHALL BE REMOVED ONCE EVERY TWO YEARS OR AS NEEDED. SEDIMENT MATERIALS SHALL BE REUSED ON SITE.
9. MAINTENANCE OF THE STORMWATER SYSTEM DURING THE CONSTRUCTION PROCESS SHALL BE THE RESPONSIBILITY OF GOLF COURSE CONTRACTOR.
10. UPON COMPLETION OF CONSTRUCTION, MAINTENANCE OF THE STORMWATER SYSTEM SHALL BECOME THE RESPONSIBILITY OF NEWPORT NATIONAL GOLF CLUB.

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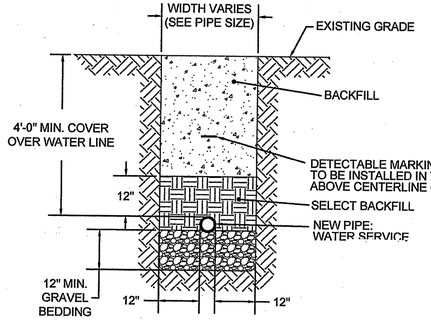
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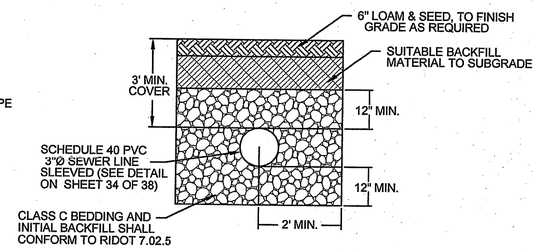
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W. Joseph Casey



WATER TRENCH DETAIL

N.T.S.



SEWER FORCE MAIN TRENCH DETAIL

N.T.S.

SEWER PIPE NOTES

1.) UNSUITABLE MATERIAL SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 12-INCHES BELOW THE DESIGN INVERT ELEVATION.

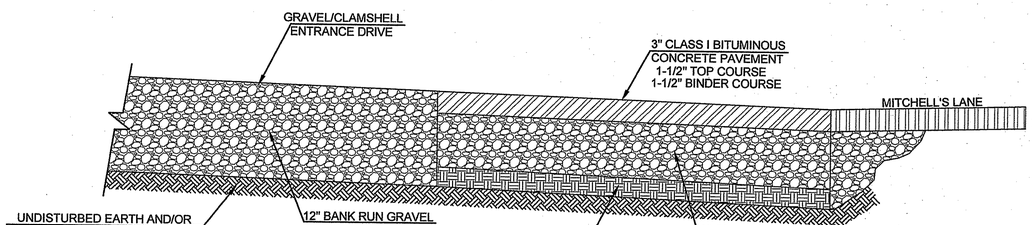
2.) TRENCH PROTECTION SHALL BE REQUIRED IN ACCORDANCE WITH OSHA REGULATIONS, AND AS OTHERWISE REQUIRED TO PROTECT UTILITIES, ROADWAYS, AND ADJACENT STRUCTURES.

3.) PIPES SHALL BE LAID BEGINNING AT THE DOWNSTREAM END OF THE PIPE LINE, IN ACCORDANCE WITH RIDOT SPECIFICATION 701.03.4

4.) ALL PVC SEWER PIPES SHALL BE IPEX RING-TITE DR 40, OR SIMILAR APPROVED.

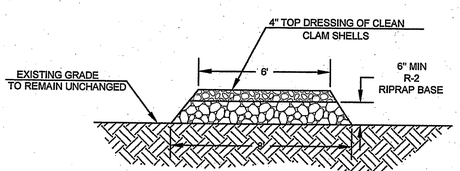
5.) ALL SEWER PIPE AND GASKETS SHALL CONFORM TO ASTM 3034 AND ASTM F679.

6.) BACKFILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12" IN HEIGHT. THESE LAYERS SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (AASHTO T180).



PAVED ENTRANCE APRON CROSS SECTION

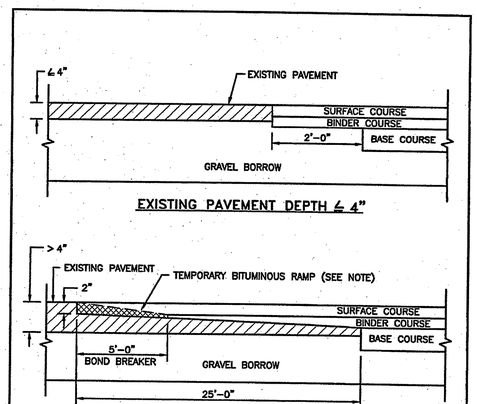
N.T.S.



NOTE:
RIPRAP SHALL CONFORM TO NATIONAL STONE ASSOCIATION MODIFIED NSA No. R-2 RIDOT M.10.02.2.

CART PATH WETLAND BUFFER CROSSING

N.T.S.



EXISTING PAVEMENT DEPTH ≤ 4"

EXISTING PAVEMENT DEPTH > 4"

NOTE:
A BOND BREAKER (TAPERED OR EQUIVALENT) WILL BE PLACED 5'-0" FROM THE JOINT AND COVERED WITH THE BINDER COURSE AS THE TEMPORARY RAMP, PRIOR TO PLACING THE SURFACE COURSE, THE BINDER COURSE AND BOND BREAKER WILL BE REMOVED.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

TRANSVERSE PAVEMENT CUT AND MATCH

DIR. ENGINEERING TRANSPORTATION — CHIEF DESIGN ENGINEER TRANSPORTATION — JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 47.1.1

No.	Revision	Date	App.

Designed By: TAV | Drawn by: CSM | Checked by:
Scale: N.T.S. | Date: 03JAN05

Project Title:

NEWPORT NATIONAL GOLF CLUB
WEST COURSE

AP 118, LOT 132; AP 123, LOTS 12 & 700
AP 124 LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:
SITE DETAILS

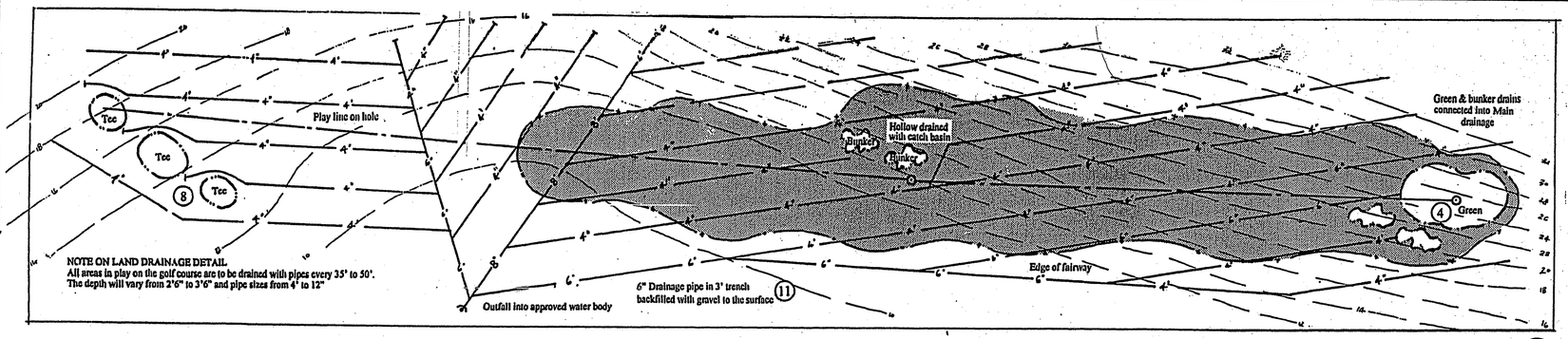
A. ERIC OFFENBERG 7/10/06 — No. 7866 — REGISTERED PROFESSIONAL ENGINEER CIVIL

Drawing Number: D-5
Sheet 35 of 38
Project Number: 04068.3
Survey Index: – –

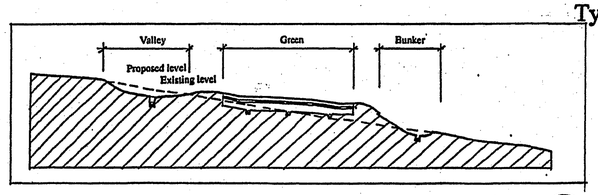
OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.

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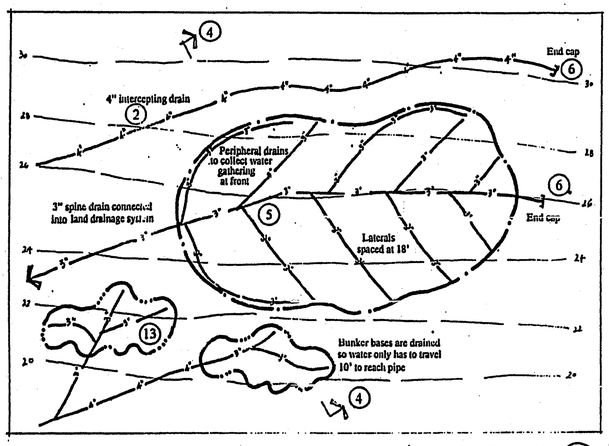
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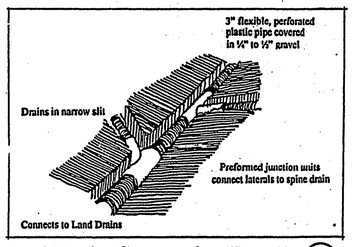
Typical Land Drainage Detail (1)
1":60'



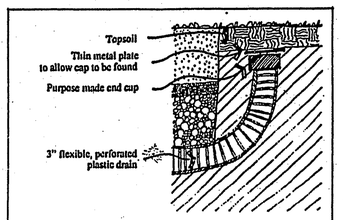
Typical Cross Section Through Green Surrounds (4)
1":20'



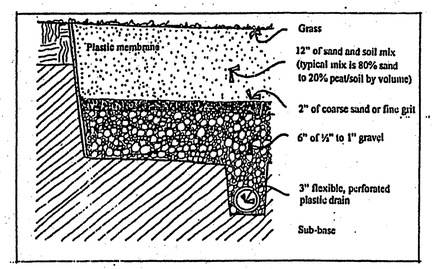
Typical Green & Bunker Drainage Detail (3)
1":20'



Typical Drain Connection Detail (5)
Not to Scale

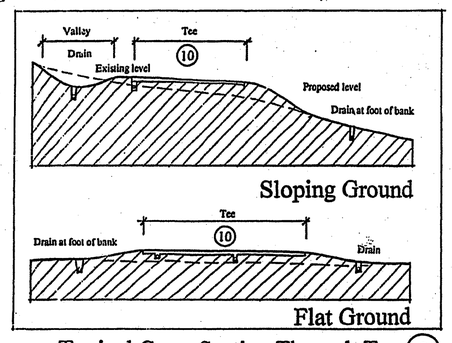


Typical End Cap Detail (6)
1":1'

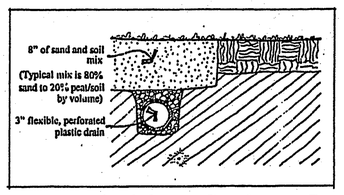


Typical Cross Section Through Green Construction 1":1' (7)

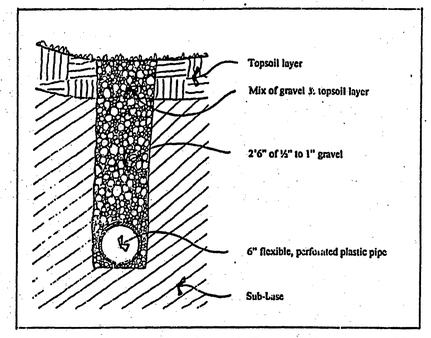
Typical Tee Drainage Detail (8)
1":20'



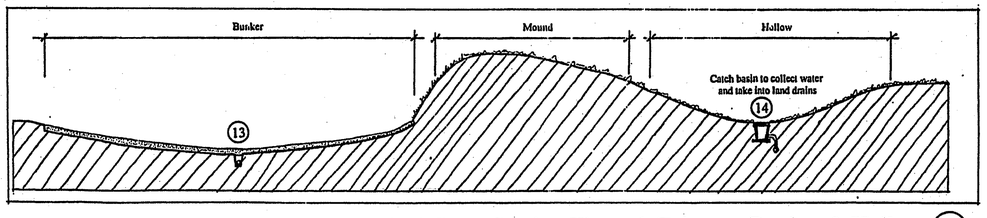
Typical Cross Section Through Tee (9)
1":20'



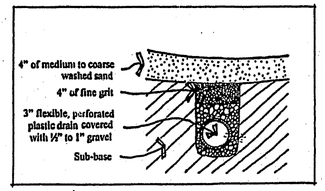
Typical Cross Section Through Tee Construction (10)
1":1'



Typical Land Drain Detail (11)
1":1'



Typical Cross Section Through Fairway Bunker & Hollow (12)
1":6'



Typical Section Through Bunker Construction 1":1' (13)

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42 VALLEY ROAD MIDDLETOWN RHODE ISLAND 02842
PHONE (401) 849-0810 FAX (401) 846-4169
WWW.NORTHEASTENGINEERS.COM

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 JUN 27 2007 FILE # 07-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Joseph Casey

No.	Revision	Date	App.

Designed By: TAV | Drawn by: CSM | Checked by:
Scale: N.T.S. | Date: 03JAN05

Project Title:
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Drawing Title:
GOLF COURSE DETAILS

A. ERIC OFFENBERG
No. 7866
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

Drawing Number: GC-1
Sheet 36 of 38
Project Number: 04068.3
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PROJECT PREPARATION

MOBILIZATION
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH MATERIALS, LABOR, EQUIPMENT, ETC., REQUIRED TO BEGIN ALL OPERATIONS NECESSARY FOR THE DEVELOPMENT OF THE NEW GOLF COURSE IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS WITHIN TERMS OF THE CONTRACT.

LAYOUT AND STAKING
THE CONTRACTOR SHALL FURNISH ALL STAKES, EQUIPMENT, TOOLS, MATERIALS AND LABOR AS MAY BE REQUIRED TO LAYOUT OF ANY PART OF THE WORK FROM ESTABLISHED CONTROL POINTS.

THE CONTRACTOR WILL SUPPLY APPROPRIATE MARKING PAINTS, PAINT GUN, RIBBON, AND LATHE STAKES WHICH MUST BE IMMEDIATELY AVAILABLE ON SITE AT ALL TIMES FOR USE BY THE GOLF COURSE ARCHITECT.

THE CONTRACTOR WILL HAVE ON SITE AT ALL TIMES AN APPROPRIATE SURVEYING INSTRUMENT AND CAPABLE OPERATOR FOR USE IN FIELD VERIFICATION SITUATIONS. IT IS THE INTENT OF THE GOLF COURSE ARCHITECT TO FIELD VERIFY ANY AND ALL GRADES CONSIDERED OF IMPORTANCE TO THE SUCCESS OF THE PROJECT. AREAS VERIFIED WILL INCLUDE GREEN SURFACES AND SUBGRADES, TEE SURFACES, AND CONSTRUCTED SWALES AND BASINS.

LIMITS OF DISTURBANCE

SCOPE

THE CONTRACTOR SHALL REMOVE ALL MARKED TREES, SHRUBS, VEGETATION, RUBBISH, AND ANY PERISHABLES OR OBJECTIONABLE MATTER, IN THE AREAS TO BE DISTURBED. ALL DEBRIS SHALL BE DISPOSED OF IN A LEGAL MANNER. OTHER OBSTRUCTIONS SHALL BE REMOVED TO THE LIMIT OF DISTURBANCE.

LIMITS OF DISTURBANCE

IT IS THE INTENT OF THE GOLF COURSE ARCHITECT TO DISTURB THE SITE AS LITTLE AS POSSIBLE.

SPECIFIC AREAS WILL BE DELINEATED WITHIN WHICH ALL CONSTRUCTION ACTIVITY WILL REMAIN. THE LIMIT OF CLEARING IS DEFINED IN THE CONSTRUCTION PLANS, LIMITS OF DISTURBANCE, AND MUST BE CLEARLY STAKED OR MARKED IN THE FIELD BY THE CONTRACTOR, AS WELL AS APPROVED BY THE GOLF COURSE ARCHITECT BEFORE GENERAL CLEARING AND TREE REMOVAL CAN BEGIN.

THE CONTRACTOR MAY NOT ENCROACH INTO THE NATIVE AREAS BEYOND THE LIMIT OF DISTURBANCE. IF CIRCUMSTANCES OCCUR WHERE THE CONTRACTOR FEELS THIS MAY HAPPEN, APPROVAL BY THE GOLF COURSE ARCHITECT AND/OR THE ENGINEER MUST BE OBTAINED. IN THE EVENT THE CONTRACTOR DOES NOT RECEIVE APPROVAL, A FINE (PER SQUARE FOOT OF ADDITIONAL DISTURBED AREA) WILL BE ASSESSED TO THE CONTRACTOR, AND REVEGETATION OR RESTORATION OF THE IMPACTED AREA TO ITS ORIGINAL STATE WILL BE NECESSARY, AT THE CONTRACTOR'S EXPENSE. THIS RESTORATION WILL COINCIDE WITH THE GRASSING OF THE NEW GOLF HOLE.

THE INTENT OF THE FINE AND REQUIRED RESTORATION OR REVEGETATION IS TO INFORM ALL INVOLVED IN THE PROJECT THAT THE AREAS THAT ARE TO REMAIN UNDISTURBED STAY THAT WAY. OUR DESIRE IS TO ENSURE THAT THE GOLF HOLE BLENDS PERFECTLY WITH THE EXISTING TERRAIN AND THE SURROUNDING HOLES. ROADWAY AND CONSTRUCTION ACCESS AREAS ARE TO BE LOCATED PRIOR TO CONSTRUCTION, AND RESTORED TO THE SITE'S ORIGINAL CONDITION WHERE NECESSARY, AT THE CONTRACTOR'S EXPENSE.

BEFORE THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR AND GOLF COURSE ARCHITECT WILL REVIEW ENTRY AND EXIT FROM THE WORK AREAS. UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR BE ALLOWED TO CHOOSE A PATH TO ACCOMPLISH HIS WORK UNLESS APPROVED BY THE GOLF COURSE ARCHITECT AND THE ENGINEER.

TOPSOIL MATERIAL MANAGEMENT

SCOPE
THE WORK COVERED UNDER THIS SECTION CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, AND MATERIALS, AND PERFORMING ALL OPERATIONS IN CONNECTION WITH THE STRIPPING, STOCKPILING, AND REPLACING OF TOPSOIL MATERIAL, IF MATERIAL IS AVAILABLE WITHIN THE LIMIT OF DISTURBANCE.

MATERIALS
TOPSOIL MATERIALS - TOPSOIL MATERIAL SHALL BE A GOOD QUALITY SANDY LOAM SOIL, FREE FROM LUMPS, SOD, STONES OR DEBRIS OF ANY KIND, SATISFACTORY TO THE GOLF COURSE ARCHITECT, AND SHALL BE THE BEST AVAILABLE WITHIN THE WORK AREA. TOPSOIL/PLANTING MATERIAL SHALL CONTAIN NO STONE LARGER THAN THREE-QUARTERS (3/4) OF AN INCH IN DIAMETER. IF REQUIRED, SCREENING OF THE SITE TOPSOIL/PLANTING MATERIAL WILL BE NECESSARY TO ELIMINATE ROCK AND DEBRIS INCONSISTENT WITH THE DESIRED SPECIFICATION. THE FOLLOWING CRITERIA FOR SCREENED TOPSOIL/PLANTING MATERIAL MUST BE MET:

U.S. STANDARD SIEVE	PERCENT (%) RETAINED
SIZE #4 (4.00MM)	0.0
SIZE #7 (2.83MM)	NO MORE THAN 20%
SIZE #8 (1.00MM)	NO MORE THAN 20%
SIZE #140 (0.11MM)	NO MORE THAN 85%
SILT - 0.002-0.074MM	LESS THAN 8%
CLAY	LESS THAN 2%

STRIPPING AND STOCKPILING

OVERALL, THE GRADING INTENT IS TO DISTURB A MINIMUM OF AREA. IN AREAS OF HEAVY CUT OR FILL, THE CONTRACTOR MUST SALVAGE ANY PLANTING MATERIAL AVAILABLE, ACCOMPLISH THE GRADING, AND RESPREAD THE PLANTING MATERIAL AT A DEPTH OF SIX (6) TO NINE (9) INCHES. ANY TOPSOIL/PLANTING MATERIAL THAT MUST BE STOCKPILED OR STORED WHILE WORK IS CONDUCTED SHALL BE DONE SO IN AN AREA THAT DOES NOT IMPAIR DRAINAGE OR CONSTRUCTION OF THE GOLF HOLE SHOULD ADDITIONAL TOPSOIL/PLANTING MATERIAL BE NEEDED, THEN THE GOLF COURSE ARCHITECT AND/OR THE ENGINEER WILL DETERMINE A BORROW SITE OR OUTSIDE SOURCE.

THE FAIRWAY AREAS WILL BE STRIPPED OF EXISTING VEGETATION TO THE MARKED FAIRWAY EDGE. THE SOIL WILL THEN BE EXAMINED FOR GERMINATION VALUE. IF IT IS DEEMED UNSUITABLE, 4" OF MATERIAL WILL BE EXCAVATED AND USED AS FILL FOR ADJACENT FEATURES. 4" OF APPROVED TOPSOIL MATERIAL WILL BE SPREAD IN THE AREAS OF FAIRWAY AND REGRADED.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO SALVAGE ALL OF THE TOPSOIL MATERIAL AVAILABLE WITHIN THE WORK LIMITS. IN THE EVENT OF A SHORTAGE OF MATERIAL, THE CONTRACTOR MAY BE REQUIRED TO SUPPLY OFF-SITE MATERIAL. THE CONTRACTOR SHALL BE PAID AT THE UNIT PRICE MUTUALLY ACCEPTABLE TO THE OWNER AND CONTRACTOR AS NEGOTIATED AT THE TIME THAT THE IMPORT OF TOPSOIL/PLANTING MATERIAL IS REQUIRED.

EARTHWORK

SCOPE
THE WORK COVERED UNDER THIS SECTION CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT AND MATERIALS, AND PERFORMING ALL OPERATIONS IN CONNECTION WITH THE MANIPULATION OF SOIL OR DIRT THROUGHOUT THE SITE AND GRADING AS REQUIRED BY THE CONSTRUCTION PLANS AND FOLLOWING SPECIFICATIONS.

BEFORE ANY GRADING IS TO OCCUR, THE GOLF COURSE ARCHITECT AND CONTRACTOR MUST REVIEW THE WORK TO BE DONE. THE INTENT IS TO FURTHER ENSURE THAT THE CONTRACTOR UNDERSTANDS THE DESIGN INTENT PRIOR TO THE COMMENCEMENT OF WORK. BY REVIEWING THE WORK PRIOR, IT MAY BE POSSIBLE TO LESSEN THE GRADING IN SOME AREAS.

MATERIALS

FILL, WHEN AND AS REQUIRED, SHALL BE A GOOD QUALITY MATERIAL, FREE FROM DEBRIS OF ANY KIND, AND SHALL BE OF A TYPE SUITABLE FOR THE PURPOSE INTENDED, SATISFACTORY TO THE GOLF COURSE ARCHITECT, AND SHALL BE THE BEST AVAILABLE ON THE SITE.

EXCAVATION

EXCAVATION AREAS ARE TO BE COMPLETED IN ACCORDANCE TO THE GRADING PLANS SUPPLIED BY THE GOLF COURSE ARCHITECT. THE MATERIAL EXCAVATED SHALL BE USED AS FILL ON THE GOLF COURSE IF SUITABLE FOR THE PURPOSE, AND SATISFACTORY TO THE GOLF COURSE ARCHITECT. IF THE MATERIAL IS DETERMINED TO BE UNSUITABLE AS FILL, THE CONTRACTOR SHALL PLACE THE UNSUITABLE MATERIAL AT A LOCATION SELECTED BY THE GOLF COURSE ARCHITECT OR ENGINEER.

EARTHWORK (CONT'D.)

GRADING

GRADING CONSISTS OF THE MECHANICAL MANIPULATION OF EXISTING LAND OR SOIL TO ACHIEVE THE LIMITS OF CUT AND FILL AND REQUIRED ELEVATIONS AS DESIGNATED IN THE PLANS OR IN THE FIELD BY THE GOLF COURSE ARCHITECT.

FILLS SHALL BE FREE OF DEBRIS AND PROPERLY COMPACTED. FILL SHALL BE PLACED IN SIX (6) INCH LAYERS AND COMPACTED WITH EQUIPMENT APPROVED BY THE GOLF COURSE ARCHITECT OR ENGINEER. FILL MATERIAL IN THE TOP TWELVE (12) INCHES OF THE FILL SHALL CONTAIN NO STONES MORE THAN FOUR (4) INCHES IN DIAMETER. THE SOIL SHALL BE TREATED AND WORKED SO AS TO BE DAMP BUT NOT WET. FILL IN AREAS UNDER PROPOSED CART PATH AREAS SHALL BE COMPACTED TO NOT LESS THAN NINETY-FIVE PERCENT (95%) MAXIMUM DENSITY AT OPTIMUM MOISTURE AS DETERMINED BY ASTM D-698. BORROW AREAS, IF REQUIRED, IN ADDITION TO PROPOSED CUTS SHOWN ON THE PLANS SHALL BE APPROVED BY THE GOLF COURSE ARCHITECT.

IMBALANCE IN DESIGNATED CUT AND FILLS
SHOULD THE GRADING PLAN REFLECT AN IMBALANCE IN CUT AND FILLS, THE GOLF COURSE ARCHITECT SHALL INDICATE A "BORROW AREA" TO OVERCOME A SHORTAGE OF CUT AND/OR A "DISPOSAL AREA" TO ACCOMMODATE AN EXCESS OF FILL. IT IS THE INTENT TO HAVE NO IMPORT OR EXPORT FROM THE SITE.

DENSITY REQUIREMENTS
COMPACT EACH LAYER OF EMBANKMENT AND FILL MATERIAL TO THE FOLLOWING PERCENTAGES OF MAXIMUM DENSITY AT OR SLIGHTLY ABOVE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM-D698 (STANDARD PROCTOR DENSITY).

GOLF COURSE CORRIDORS (EXCEPT AS MODIFIED HEREIN) = 80 PERCENT
MINOR PONDS AND DAMS = 95 PERCENT

ADJUSTMENT FOR AN ERROR IN CONTOURING
IN FIGURING DEPTHS OF CUTS OR FILLS, CONTOURS SHOWN IN THE DRAWINGS SHALL BE ASSUMED TO BE CORRECT UNLESS THE CONTRACTOR NOTIFIES THE GOLF COURSE ARCHITECT TO THE CONTRARY BEFORE ANY CUT, FILL OR EXCAVATION IS MADE. CONTRACTOR SHALL MAKE CONTOUR ADJUSTMENT AS MAY BE REQUIRED AND APPROVED BY THE GOLF COURSE ARCHITECT AND ENGINEER TO CORRECT AN ERROR AT NO ADDITIONAL COST TO THE OWNER.

UTILITIES

THE CONTRACTOR SHALL SEAL ALL UTILITY LINES OR TILE LINES BROKEN IN THE COURSE OF EXCAVATION AND NOT REQUIRED FOR SERVICE THEREAFTER. IF THERE ARE TILE LINES WHICH NEED TO BE EXTENDED, THE CONTRACTOR SHALL GET THE APPROVAL OF THE GOLF COURSE ARCHITECT TO PROCEED.

ALL EXISTING UTILITY LINES SHALL BE CLEARLY MARKED BY THE ENGINEER AND REVIEWED BY THE GOLF COURSE ARCHITECT AND CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

BENCHMARKS
ALL NEW GOLF HOLES SHALL HAVE A BENCHMARK AT THE TEE AND GREEN, AND AT VARIOUS LOCATIONS THROUGHOUT THE FAIRWAY AS SHOWN ON THE CONSTRUCTION PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THESE POINTS THROUGH THE CONCLUSION OF THE PROJECT. IN THE EVENT THESE POINTS ARE DISTURBED OR DESTROYED, THEY MUST BE REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.

SHAPING AND FEATURE CONSTRUCTION

SCOPE

THE WORK COVERED IN THIS SECTION CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT AND MATERIALS FOR THE SHAPING AND CONSTRUCTION OF THE GOLF HOLE FEATURES INCLUDING THE GREEN, TEES, BUNKERS, MOUNDS AND SWALES. THE LOCATION, SIZE, AND ELEVATIONS OF THESE FEATURES ARE FOUND IN THE CONSTRUCTION PLAN.

MATERIALS

TOPSOIL/PLANTING MATERIAL - TOPSOIL/PLANTING MATERIAL USED AT AND ADJACENT TO THE FEATURES MENTIONED IN THIS SECTION SHALL BE THE BEST AVAILABLE FROM THE SITE AND SHALL BE SCREENED. THIS IS NECESSARY TO ELIMINATE ROCK AND DEBRIS INCONSISTENT WITH THE DESIRED SPECIFICATIONS AS ESTABLISHED IN THE TOPSOIL MATERIAL MANAGEMENT SECTION.

FILL - SHALL BE GOOD QUALITY TAKEN FROM THE SITE AND APPROVED BY THE GOLF COURSE ARCHITECT.

BUNKER MATERIALS

SAND-THE SAND INCORPORATED INTO THE BUNKERS SHALL BE A CLEAN AND STABLE LOCAL PRODUCT, SUCH AS WASHED MORTAR SAND. SAMPLES OF SAND SHALL BE SUBMITTED TO THE GOLF COURSE ARCHITECT FOR APPROVAL. GENERALLY, A MASONRY TYPE SAND, ANGULAR IN SHAPE, WITH A MIXTURE OF PARTICLE SIZES IS SUITABLE. THE DEPTH OF BUNKER SAND IS SIX (6) INCHES.

TEE MATERIALS

SAND - SHALL BE AN AGRONOMICALLY ACCEPTABLE ECONOMICALLY FEASIBLE REJECT OR MORTAR TYPE SAND WHICH MUST BE APPROVED BY THE GOLF COURSE ARCHITECT.

GREEN MATERIALS

GREENS MIXTURE- MIXTURE SHALL CONSIST OF 70% APPROVED SAND, 20% APPROVED ORGANIC MATERIAL AND 10% NATIVE TOPSOIL. THE SAND, ORGANIC MATERIAL AND TOPSOIL ARE TO BE TESTED AND APPROVED BY THE GOLF COURSE ARCHITECT AND ENGINEER. THE RESULTING MIX MUST CONFORM TO SPECIFICATIONS AND BE RANDOMLY SAMPLED AND TESTED AT THE CONTRACTOR'S EXPENSE FOR CONSISTENCY. THE MIXING OF THE MATERIALS ARE TO BE DONE AT THE PIT PRIOR TO HAULING THE MIX TO THE PROJECT.

FILLING TO REQUIRED SUBGRADE LEVELS
WHERE MORE THAN ONE (1) FOOT OF SUBSOIL FILL IS REQUIRED, THE FILL SHALL BE ACCOMPLISHED IN SIX (6) INCH LAYERS AND COMPACTED AS SPECIFIED IN GRADING.

SHAPING
SHAPING CONSISTS OF THE ARTISTIC MANIPULATION OF GRADED OR EXISTING LAND OR SOIL TO OBTAIN THE FEATURES DESIGNATED BY THE GOLF COURSE ARCHITECT IN THE PLANS, AND AS DIRECTED IN THE FIELD.

THE INTENT OF SHAPING IS TO CLOSELY MATCH THE LOCATION AND INTENT OF DESIGN OF THE FEATURES (I.E., GREENS, TEES, BUNKERS, MOUNDS, SWALES) AS SHOWN ON THE PLANS. THE GOLF COURSE ARCHITECT RESERVES THE RIGHT, ON A TIMELY BASIS, TO REFINE THESE FEATURES IN THE FIELD AS THEY AFFECT THE APPEARANCE, PLAYABILITY AND AESTHETIC QUALITY OF THE GOLF COURSE. THE MAXIMUM GRADING SLOPE IN MOWABLE TURF AREAS WILL BE 3 HORIZONTAL TO 1 VERTICAL.

BUNKERS

INTENT

THE SHAPING OF THE BUNKERS IS A VERY IMPORTANT FACTOR WITHIN THE DESIGN OF THE COURSE AT NEWPORT NATIONAL GOLF COURSE. WELL-SHAPED AND EXECUTED BUNKERS WILL GIVE THE NEW COURSE AESTHETIC APPEAL AND PRESERVE STRATEGIC INTEGRITY. IT IS OUR INTENT THAT THE BUNKERS HAVE A NATURAL APPEARANCE, AND FIT COMFORTABLY WITHIN THEIR SUPPORT MOUNDING.

CONSTRUCTION

THE BUNKERS AROUND THE GREENS AND IN FAIRWAYS SHALL BE CONSTRUCTED TO THE SIZES AND SHAPES AS STAKED IN THE FIELD BY THE GOLF COURSE ARCHITECT. THE GOLF COURSE ARCHITECT RESERVES THE RIGHT TO ALTER THE CONSTRUCTION OF ANY BUNKER ON A TIMELY BASIS WHEN, IN HIS OPINION, SUCH ALTERATION IS NECESSARY TO IMPROVE THE DESIGN OF THESE FEATURES. ANY SUCH ALTERATION SHALL NOT ENTITLE THE CONTRACTOR TO EXTRA COMPENSATION.

SHAPING AND FEATURE CONSTRUCTION (CONT'D.)

THE CONTRACTOR SHALL BE CAREFUL TO PRESERVE THE NATURAL LOOKING LINES ON THE BUNKERS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE GOLF COURSE ARCHITECT. THE ARTISTIC AND AESTHETIC HANDLING OF THE SHAPING OF MOUNDS, NOSES AND OUTLINES OF ALL BUNKERS SHALL BE THE RESPONSIBILITY OF THE GOLF COURSE ARCHITECT. IT IS TO BE EXPECTED THAT MOST OF THIS WORK WILL BE ACCOMPLISHED BY MACHINE AND THEN HAND-WORKED AS DIRECTED BY THE GOLF COURSE ARCHITECT.

ALL BUNKERS, BOTH AT THE FAIRWAY AND AT THE GREEN, SHALL BE CONSTRUCTED SO THAT THE EDGES BLEND WELL INTO THE SURROUNDING GROUND. THE PERIMETER OF THE BUNKERS SHALL RECEIVE SIX (6) INCHES OF TOPSOIL, WHICH IS TO BE TAMPED AND COMPACTED TO ENSURE STABILITY FOR SODDING. THE INSIDE OF THE BUNKER WILL RECEIVE NO TOPSOIL WHERE THE FUTURE SAND AREA WILL OCCUR.

DRAINAGE

TRENCHES SHALL BE CUT INTO THE SUBGRADE WITHIN THE LOWEST PORTIONS OF THE BUNKER SO THAT THE PERFORATED PIPE WILL SLOPE UNIFORMLY. THE MINIMUM ACCEPTABLE SLOPE SHALL BE 0.5%. THE TRENCH WILL BE WIDE ENOUGH TO CONTAIN A FOUR (4) INCH PIPE SURROUNDED BY ONE INCH OF GRAVEL. DEPTH OF THE TRENCH IS TO BE EIGHT (8) INCHES MINIMUM. ALL EXCAVATED MATERIAL IS TO BE REMOVED FROM THE BUNKER AND USED IN AN ADJACENT FEASIBLE AREA.

PERFORATED PIPE IS TO BE LAID PERFORATIONS DOWN ON A TWO (2) INCH GRAVEL BASE. AFTER THE PIPE IS LAID, THE TRENCHES SHALL BE BACKFILLED WITH WASHED PEA GRAVEL TO THE TOP OF TRENCH.

INSTALLATION OF SAND

THE CONTRACTOR SHALL FURNISH AND INSTALL THE SAND IN THE BUNKERS PRIOR TO SEEDING AND SODDING, BRINGING THE SAND TO APPROXIMATE FINISH GRADE. SAND SHALL BE APPROVED BY THE GOLF COURSE ARCHITECT. BUNKERS SHALL BE FILLED WITH FOUR (4) INCHES OF SAND. UNDER NO CIRCUMSTANCES WILL THE OWNER PAY FOR ADDITIONAL SAND UNLESS THE GOLF COURSE ARCHITECT ENLARGES OR ADDS BUNKERS WITH PRIOR APPROVAL OF THE OWNER. AFTER PLACEMENT OF THE FOUR (4) INCHES OF SAND, IT MUST BE WATERED AND TAMPED BY THE CONTRACTOR TO CREATE A FIRM SURFACE. IT IS ESSENTIAL TO HAVE FOUR (4) INCHES OF SAND WITHIN EACH BUNKER FLOOR AND THREE (3) TO FOUR (4) INCHES (WHERE NEEDED) OF COMPACTED SAND ON THE BUNKER SLOPES.

SODDING OF PERIMETERS AND FACES

PRIOR TO SODDING, THE GOLF COURSE ARCHITECT WILL MARK THE BUNKER PERIMETER TO DEFINE THE LIMITS OF SODDING. ALL SOD AT THE PERIMETER OF THE BUNKERS IS TO BE PINNED WITH 1X1X6 PINE STAKES AS NECESSARY TO INSURE PROPER SOIL/SOD CONTACT AND REDUCE THE CHANCE OF EROSION AND SLOUGHING. WHERE DESIGNATED, PERIMETER SODDING SHALL BE TIED INTO EXISTING TURF.

TEES

CONSTRUCTION
TEES SHALL BE CONSTRUCTED TO THE SIZE AND ELEVATION SHOWN ON THE DRAWINGS AND SHOULD BE PROPERLY ALIGNED TOWARDS THE LANDING AREA. THE ELEVATION OF TOP OF TEE REFERS TO THE FRONT CENTER OF THE TEE. TEES SHALL BE SLOPED AT 0.5% TO 0.7% AS DIRECTED BY THE GOLF COURSE ARCHITECT AT THE TIME OF CONSTRUCTION.

TEE SURFACES SHALL CONSIST OF AN EIGHT (8) INCH LAYER OF 80-20 ROOTZONE MIX. THE TEE SURFACE SHALL BE PROPERLY SMOOTHED AND GRADED AS DESCRIBED IN FINISHED GRADE.

GREENS

CONSTRUCTION
THE CONTRACTOR SHALL SHAPE AND CONSTRUCT ALL GREENS AS SPECIFIED AND DESIGNED BY THE GOLF COURSE ARCHITECT, AS SHOWN IN THE GREEN PLAN. CONTOURS IN THE COLLAR AND SEAM AREAS SHALL BE BLENDED INTO THE CONTOURS OF THE ADJACENT FEATURES SO AS TO APPEAR NATURAL. THE GOLF COURSE ARCHITECT MUST APPROVE ALL SUBGRADES AND RESERVES THE RIGHT TO MAKE CHANGES ON A TIMELY BASIS IN THE FIELD.

SUBLAYERS

SUBGRADE - THE SUBGRADE SHALL BE CONSTRUCTED AT AN ELEVATION SIXTEEN (16) INCHES BELOW THE PROPOSED FINISHED GRADE (EIGHTEEN (18) INCHES IF A CHOKER LAYER IS NECESSARY). THE CONTOURS OF THE SUBGRADE SHALL CONFORM TO THOSE OF THE PROPOSED FINISHED GRADE WITH A TOLERANCE OF +/- ONE (1) INCH. THE SUBGRADE SHALL BE COMPACTED SUFFICIENTLY TO PREVENT FUTURE SETTLING WHICH WOULD CREATE WATER RETAINING DEPRESSIONS. ALL SUBGRADES MUST BE APPROVED BY THE GOLF COURSE ARCHITECT PRIOR TO THE INSTALLATION OF MATERIALS. THE CONTRACTOR WILL SUPPLY AND POSITION AN APPROPRIATE SURVEYING INSTRUMENT ON THE GREEN FOR THE GOLF COURSE ARCHITECT'S SITE INSPECTIONS. THE INTENT IS TO RECHECK ON THE SPOT IF NECESSARY.

DRAINAGE - TRENCHES SHALL BE CUT INTO THE SUBGRADE WITHIN THE LOWEST PORTIONS OF THE GREEN WELL SO THAT THE PERFORATED PIPE WILL SLOPE UNIFORMLY. THE MINIMUM ACCEPTABLE SLOPE SHALL BE 0.5%. THE TRENCH WILL BE WIDE ENOUGH TO CONTAIN A THREE (3) INCH PIPE SURROUNDED BY ONE INCH OF GRAVEL. DEPTH OF TRENCH IS TO BE EIGHT (8) INCHES MINIMUM. ALL EXCAVATED MATERIAL IS TO BE REMOVED FROM THE GREEN WELL AND USED IN AN ADJACENT FEASIBLE AREA.

PERFORATED PIPE IS TO BE LAID PERFORATIONS DOWN ON A TWO (2) INCH WASHED PEA GRAVEL BASE. AFTER THE PIPE IS LAID, THE TRENCHES SHALL BE BACKFILLED WITH WASHED PEA GRAVEL TO THE TOP OF TRENCH.

SUBLAYER INSTALLATION

THE GREEN CROSS-SECTION CALLS FOR A SIX (6) INCH GRAVEL LAYER, A TWO (2) INCH CHOKER LAYER (IF NECESSARY), AND TWELVE (12) INCHES OF ROOTZONE MIX TO BE PLACED OVER THE APPROVED AND ESTABLISHED SUBGRADE. THIS PROFILE IS IMPLEMENTED TO ACHIEVE A PERCHED WATER SYSTEM WITH COMPONENTS THAT, THROUGH PROPER PARTICLE SIZING, WILL NOT MIGRATE TO OTHER AREAS.

PLACING GRAVEL LAYER - A SIX (6) INCH GRAVEL LAYER IS TO BE INSTALLED OVER THE SUBGRADE UPON PROPER INSTALLATION OF GREEN DRAINAGE AND APPROVAL OF THE GOLF COURSE ARCHITECT. THE GRAVEL MUST BE TESTED AND APPROVED BY THE GOLF COURSE ARCHITECT.

PLACING CHOKER LAYER - IF NECESSARY, A TWO (2) INCH COARSE SAND LAYER IS TO BE INSTALLED OVER THE GRAVEL LAYER. THE COARSE SAND MUST BE TESTED AND APPROVED BY THE GOLF COURSE ARCHITECT AND THE OWNER.

MIXING OF THE GREEN MIXTURE - MIXING SHALL BE DONE AT THE SAND PIT FACILITY. THE GREEN MIXTURE SHALL BE BLENDED UTILIZING A "MECHANICAL BLENDING PROCESS". LOADER MIXING IS NOT ALLOWED AS A SUBSTITUTE. MIXING SITE SHOULD BE LEVEL, WELL-DRAINED, AND CLEAR OF VEGETATION. THE GOLF COURSE ARCHITECT SHOULD DETERMINE AND/OR APPROVE PROPER MIX RATIOS OF MATERIALS PRIOR TO CONTRACTOR'S MIXING OPERATIONS.

PLACING OF THE GREEN MIXTURE - THE GREEN MIXTURE SHALL BE PLACED BEING CAREFUL NOT TO DISTURB THE INSTALLED GRAVEL. THE SURFACE OF THIS LAYER SHALL BE BROUGHT TO ELEVATION AND CONTOUR AS SHOWN ON THE GREEN PLANS. THE MIXTURE SHALL BE PROPERLY MOISTENED AND COMPACTED WHILE PLACING IN THE GREEN AREA. SUFFICIENT CONSIDERATION SHALL BE GIVEN TO SETTLING OF THIS LAYER BEING SURE THAT THE ULTIMATE GRADES SHALL BE EXACTLY THOSE SPECIFIED ON THE GREEN PLAN OR SUBSEQUENTLY ALTERED IN THE FIELD BY THE GOLF COURSE ARCHITECT. THE GREEN MIXTURE THROUGHOUT THE PROJECT SHALL MATCH IN EVERY RESPECT THE SPECIFICATIONS OF THE GOLF COURSE ARCHITECT.

FINISHED GRADE

"RINGING" THE GREEN - THE GREEN SHALL BE "RINGED" WITH TOPSOIL IN THE AREAS OF APRONS AND COLLARS. THIS SOIL SHALL BE PLACED AROUND THE GREEN AND THE NEW CONTOURS ESTABLISHED IN SUCH A WAY THAT THEY WILL BLEND INTO THE PUTTING SURFACE.

AFTER THE GREEN MIXTURE HAS BEEN ALLOWED TO SETTLE, THE CONTRACTOR SHALL FINE GRADE THE GREEN TO THE GRADES SPECIFIED. IDENTICAL GREEN MIXTURE SHALL BE SUPPLIED TO ADD (OR SUBTRACT AS MAY BE NECESSARY) TO BRING THE SURFACE TO THE SPECIFIED GRADE AND CONTOUR. IT IS NECESSARY THAT THE CONTRACTOR KEEP THE GREEN MIXTURE WET AND FIRM, AS A SETTLED SURFACE. THE CONTRACTOR IS EXPECTED, WHEN PLANTING, TO HAVE TWELVE (12) INCHES OF GREEN MIXTURE UNDER THE GREEN SURFACE.

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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 JUN 27 2007 FILE # 07-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Joseph Casey

No.	Revision	Date	App.

Designed By: LES | Drawn by: CSM | Checked by:
Scale: N/A | Date: 03JAN05

Project Title:
NEWPORT NATIONAL GOLF CLUB
WEST COURSE
AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:
CONSTRUCTION NOTES

A. ERIC OFFENBERG
2-16-05
No. 7866
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: GC-2
Sheet 37 of 38
Project Number: 04068.0
Survey Index: – –

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OFFICE OF WATER RESOURCES

OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.

DRAINAGE

SCOPE

THE WORK COVERED UNDER THIS SECTION INCLUDES ALL LABOR, MATERIAL, TOOLS AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL THE GOLF COURSE DRAINAGE SYSTEMS AS SPECIFIED AND SHOWN ON THE DRAWINGS FOR THE GOLF COURSE. THE CONTRACTOR SHALL VERIFY THAT THE PIPE HAS PROPER FALL BEFORE BEGINNING THE BACKFILL OPERATION.

MATERIALS

REINFORCED CONCRETE PIPE - IF USED, SHALL MEET ASTM SPECIFICATION C-76-41, LATEST REVISIONS.

CORRUGATED METAL PIPE - IF USED, SHALL BE ARMCO CORRUGATED METAL PIPE OR EQUAL, CONFORMING TO AASHTO SPECIFICATIONS M-136.

FRAMES, COVERS AND GRATING - COVERS AND GRATINGS SHALL BE OF A TYPE AND DUTY AS SHOWN ON THE PLANS. IRON CASTING SHALL CONFORM TO STANDARD SPECIFICATIONS FOR GRAY IRON CASTING, ASTM SPECIFICATIONS A-48-41, CLASS 20. ALL CASTINGS SHALL BE TRUE TO PATTERN, IN FORM AND DIMENSIONS, FREE FROM FAULTS, SPONGINESS, CRACKS, BLOW HOLES AND OTHER DEFECTS AFFECTING THEIR STRENGTH. BEARING SURFACES BETWEEN CAST IRON FRAMES, COVERS AND GRATES SHALL BE MACHINED, FITTED TOGETHER, AND MATCH-MARKED TO PREVENT ROCKING.

ALL DRAINAGE STRUCTURES TO BE INSTALLED AND/OR CONSTRUCTED IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS.

PIPE - SHALL BE ADS N-12, HANCOR HI-Q OR ANY OTHER APPROVED HIGH DENSITY POLYETHYLENE, CORRUGATED, SMOOTH INTERIOR WALL PIPE UNLESS OTHERWISE SPECIFIED.

PERFORATED PIPE - SHALL BE 3,4,6 OR 8 INCH ADS N-12 OR HANCOR HI-Q HIGH DENSITY POLYETHYLENE, PERFORATED, CORRUGATED, SMOOTH INTERIOR WALL PIPE OR APPROVED EQUIVALENT. NO LESSER QUALITY PIPE WILL BE CONSIDERED.

CONCRETE - ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. REINFORCING STEEL SHALL BE GRADE 40 OR 60 AS MAY BE REQUIRED BY THE DRAWINGS.

GRAVEL - SHALL BE WASHED AND SCREENED PEA GRAVEL OR CRUSHED STONE APPROXIMATELY ONE-QUARTER (1/4) INCH IN DIAMETER. GRAVEL MUST BE APPROVED BY THE GOLF COURSE ARCHITECT UPON RECOMMENDATION FROM THE ENGINEER.

TRENCHING

GREENS AND BUNKERS - TRENCHES WILL BE CUT INTO THE SUBGRADE SO THAT THE PERFORATED POLYETHYLENE PIPE WILL SLOPE UNIFORMLY. THE MINIMUM ACCEPTABLE SLOPE SHALL BE 0.5%. THE TRENCH SHALL BE WIDE ENOUGH TO CONTAIN THE APPROPRIATE SIZE PIPE OVER TWO (2) INCHES OF ACCEPTABLE GRAVEL.

OTHER AREAS - TRENCHES FOR DRAIN LINES SHALL BE EXCAVATED AS SHOWN IN THE LAND DRAINAGE DETAIL.

INSTALLATION OF GOLF COURSE DRAINAGE PIPE

GREENS AND BUNKERS - PIPE SHALL BE INSTALLED IN OPEN TRENCHES, TRUE TO LINE AND GRADE OVER TWO (2) INCHES OF GRAVEL. ALL PERFORATED POLYETHYLENE PIPE SHALL BE BACKFILLED WITH WASHED GRAVEL TO THE TOP OF THE TRENCH WITH ADDITIONAL GRAVEL HEAPED ON TOP TO ALLOW FOR SETTLING. PERFORATED PIPE WILL EXTEND TO THE BUNKER OR GREEN'S EDGE WHERE IT WILL BE PICKED UP BY NON-PERFORATED PIPE TO EXTEND TO AN OUTFALL OR POINT OF DISCHARGE INTO AN ADJACENT DRAINAGE SYSTEM. FLUSHOUTS ARE REQUIRED.

OTHER AREAS - PIPE SHALL BE INSTALLED IN OPEN TRENCHES TRUE TO LINE AND GRADE. TRENCHES SHALL BE BACKFILLED WITH FILL MATERIAL IN SIX (6) INCH LAYERS AND EACH LAYER THOROUGHLY TAMPED TO THE TOP OF THE GROUND FOR PIPE LAID UNDER PAVING. PIPE OUTSIDE THE LIMITS OF PAVING SHALL BE TAMPED IN NINE (9) INCH LAYERS TO THE TOP OF THE GROUND. THE TOP SIX (6) INCHES OF BACKFILL MATERIAL SHALL CONSIST OF TOPSOIL EQUIVALENT TO THE SURROUNDING AREA.

NO BACKFILLING SHALL BE COMMENCED BEFORE THE GOLF COURSE ARCHITECT OR OWNERS REPRESENTATIVE HAS INSPECTED AND APPROVED THE LINE. THE CONTRACTOR ACKNOWLEDGES THAT, AT HIS SOLE COST AND EXPENSE, HE SHALL CORRECT AND REPAIR ALL SETTLEMENT OF DITCH BACKFILL INCLUDING BUT NOT LIMITED TO, ALL FILLING, LEVELING, REGRASSING WITH SOD OR SEED AS MAY BE REQUIRED, AS DIRECTED BY THE GOLF COURSE ARCHITECT OR OWNERS REPRESENTATIVE.

ALL TRENCHES WILL BE WATER-SETTLED AND COMPACTED TO AVOID LATER SETTLEMENT.

STORM PIPE INSTALLATION

MAJOR STORM DRAINAGE SYSTEM REQUIREMENTS FOR THE ROADS AND BUILDINGS WILL BE INSTALLED AS SHOWN ON THE SITE PLANS.

INSTALLATION OF DRAIN INLETS

NYLOPLAST DRAIN INLETS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE DIRECTION OF THE GOLF COURSE ARCHITECT. THEY SHOULD BE SET LEVEL AND TRUE TO LINE AND GRADE.

INSTALLATION OF FRAMES, COVERS, AND GRATINGS

FRAMES, COVERS, AND GRATINGS SHALL BE PLACED AS SHOWN ON THE PLANS AND TRUE TO SURFACE GRADES. WHERE CASTINGS ARE TO BE INSTALLED AT CURBS AND PAVED AREAS, THEY SHALL BE ALIGNED PROPERLY WITH SAME.

INSTALLATION OF POLYETHYLENE PIPE

POLYETHYLENE PIPE SHALL BE INSTALLED IN OPEN TRENCHES, TRUE TO LINE AND GRADE. THE EXCAVATION OF TRENCHES SHALL NOT ADVANCE MORE THAN THREE HUNDRED (300) FEET AHEAD OF THE COMPLETE PIPE WORK EXCEPT UPON THE PERMISSION OF THE GOLF COURSE ARCHITECT. AFTER THE PIPE IS LAID AND INSPECTED BY THE GOLF COURSE ARCHITECT OR CLUB'S REPRESENTATIVE, THE CONTRACTOR SHALL IMMEDIATELY REFILL THE TRENCH TO THE SURFACE OF THE GROUND, MAKING SURE THAT THE UPPER SIX (6) INCHES CONSISTS OF APPROVED TOPSOIL, A FULL SIX (6) INCHES OF DEPTH AFTER COMPACTION.

INSTALLATION OF CATCH BASINS (IF NECESSARY)

NYLOPLAST CATCH BASINS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE PLANS PREPARED BY THE GOLF COURSE ARCHITECT AND THE MANUFACTURERS REQUIREMENTS. THEY SHOULD BE SET LEVEL AND TRUE TO LINE AND AT DESIGNED GRADE.

DRAINAGE (CONT'D.)

MAINTENANCE

ALL DRAINAGE INSTALLATIONS SHALL BE FLUSHED AND MAINTAINED IN GOOD WORKING ORDER PREVIOUS TO FINAL ACCEPTANCE. EROSION CONTROL PRACTICES SHALL BE APPLIED WHEN SITE AND WEATHER CONDITIONS DEEM IT NECESSARY.

GRADES

GRADES FOR THE DRAINAGE PIPES AND BASINS MUST BE STRICTLY ADHERED TO IN ACCORDANCE WITH THE DRAWINGS, OR AS MAY OTHERWISE BE DIRECTED BY THE GOLF COURSE ARCHITECT.

AS-BUILT

THE CONTRACTOR SHALL PROVIDE THE OWNER AND GOLF COURSE ARCHITECT ACCURATE SCALED PROGRESS DRAWINGS OF ALL INSTALLED DRAIN LINES. LOCATIONS SHALL BE ACCURATE WITH REFERENCE TO EXISTING SITE FEATURES AND DRAINAGE DRAWINGS. THESE WORKING AS-BUILTS SHALL BE SUBMITTED TO THE GOLF COURSE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY UPON PROJECT COMPLETION. ALSO, A FINAL AS-BUILT PLAN DENOTING ALL DRAINAGE SYSTEM LOCATIONS SHALL BE SUPPLIED BY THE CONTRACTOR TO THE OWNER AND GOLF COURSE ARCHITECT. THE FINAL PAYMENT WILL BE WITHHELD UNTIL THE FINAL AS-BUILTS ARE RECEIVED. THE AS-BUILTS MUST BE CONCISE AND WELL-DOCUMENTED, SHOWING ALL COMPONENTS, INCLUDING BUT NOT LIMITED TO:

1. NAME OF INDIVIDUAL PREPARING THE DRAWING, AND THE DATE.

2. DRAINAGE OF GREENS, BUNKERS AND TEES (IF PIPED) WILL BE SCALE 1" = 30'. DRAIN INLETS, CATCH BASINS AND JUNCTION BOXES WILL BE SCALE 1" = 100'. LOCATIONS WILL BE REFERENCED FROM TWO (2) FIXED, PERMANENT POINTS FROM FLUSHOUT TO TIE-INS. LENGTH OF DISTANCES CAN BE ROUNDED TO THE CLOSEST FOOT, WITH NOTATIONS OF PIPE SIZE BEING USED.

3. SPECIFIC NOTES DETAILING UNIQUE INSTALLATION INFORMATION.

THESE AS-BUILTS WILL BE KEPT CLEAN, DRY AND SAFE FROM DAMAGE AT ALL TIMES. IT WILL BE KEPT UP TO DATE AND AVAILABLE FOR REFERENCE AT EACH PLANNING MEETING. THE AS-BUILTS AND THEIR SUPPORTING EVIDENCE WILL BE USED TO PROCESS PAYMENT REQUESTS.

CART PATH CONSTRUCTION

SCOPE

THE WORK COVERED IN THIS SECTION INCLUDES FURNISHING ALL MATERIALS, LABOR AND EQUIPMENT TO INSTALL AN AGGREGATE CART PATH, AND CLEANING AND REGRADING AFTER SUCH INSTALLATION.

CART PATH ALIGNMENT SHALL GENERALLY FOLLOW THE COURSE AS SHOWN ON THE CONSTRUCTION PLAN. CENTERLINES OF CART PATHS SHALL BE APPROVED AND ARE SUBJECT TO CHANGE IN THE FIELD PRIOR TO BASE CUT BY THE GOLF COURSE ARCHITECT.

UNLESS OTHERWISE DIRECTED BY THE GOLF COURSE ARCHITECT, CART PATHS SHALL BE KEPT OUT OF PLAY AND SHALL BE INSTALLED AT THE BASE OF THE SLOPES OF ALL GOLF COURSE FEATURES. CART PATH SHAPING SHALL INCLUDE ASSOCIATED MOUNDS AND DEPRESSIONS WHICH WILL SCREEN THE PATH FROM VIEW FROM TEES AND LANDING AREAS WHERE POSSIBLE.

MAINTENANCE OF DRAINAGE STRUCTURES (DURING CONSTRUCTION)

1. TEMPORARY SEDIMENT BASINS SHALL BE INSPECTED WEEKLY. ACCUMULATED SEDIMENTS SHALL BE REMOVED AND RESPREAD ON-SITE ONCE EVEY TWO WEEKS OR AS NEEDED.

2. GRASSES MUST BE PLANTED AROUND AND WITHIN THE BASINS IMMEDIATELY FOLLOWING CONSTRUCTION TO STABILIZE THE SLOPES AND PREVENT EROSION. TREES AND SHRUBS SHALL NOT BE PLANTED ON ANY IMPOUNDING EMBANKMENTS, TO PREVENT POTENTIAL SUBSURFACE DISTURBANCE AND POSSIBLE FAILURE OF THE STRUCTURE.

3. THE GRASSED AREAS OF THE BASINS SHALL BE INSPECTED AT LEAST TWICE PER YEAR TO CHECK FOR EROSION PROBLEMS. PROBLEM AREAS SHALL BE RESEEDED IMMEDIATELY TO STABILIZE EXPOSED SOILS, THEREBY REDUCING EROSION AND POTENTIAL CLOGGING OF OUTFLOW DEVICES.

4. SIDE-SLOPES, EMBANKMENTS, AND THE UPPER STAGE OF THE BASIN SHALL BE MOWED AT LEAST ONCE DURING THE GROWING SEASON (PREFERABLY AFTER AUGUST 15TH), TO PREVENT UNWANTED WOODY GROWTH. ALL TRASH AND LITTER SHALL BE REMOVED FROM THE BASINS IMMEDIATELY PRIOR TO MOWING OPERATIONS.

5. SEDIMENTS SHALL BE REMOVED FROM THE BASINS DURING THE FIRST (INITIAL) YEAR OF OPERATION AND EVERY 10 YEARS THEREAFTER. MORE FREQUENT REMOVALS MAY BE NECESSARY IF THE SEDIMENT STORAGE CAPACITY OF THE FOREBAY OR POND IS EXCEEDED.

6. IF BLOCKAGE OF A BASIN OUTLET STRUCTURE OCCURS IT MAY BE NECESSARY TO DEWATER THE POND TO ACCESS THE BLOCKAGE. THE DEWATERING FLOW MUST BE ADEQUATELY FILTERED PRIOR TO DISCHARGE INTO A RECEIVING WATER BODY TO REMOVE SUSPENDED SOLIDS.

7. CATCH BASINS SHALL BE INSPECTED AND CLEANED ONCE EVERY YEAR.

8. THE OUTLET STRUCTURE AND ALL OVERFLOW CHANNELS (INCLUDING RIPRAP) SHALL BE INSPECTED ANNUALLY. FURTHERMORE, EXTENDED DETENTION DEVICES SHALL BE INSPECTED AT LEAST TWICE PER YEAR. INSPECTIONS SHALL BE ACCOMPLISHED SEVERAL TIMES DURING THE FIRST SIX MONTHS OF OPERATION, ESPECIALLY AFTER RAINFALL EVENTS TO CHECK FOR CLOGGING OR, CONVERSELY, TOO RAPID OF A RELEASE.

9. THE NEWPORT NATIONAL GOLF CLUB IS TO BE RESPONSIBLE FOR MAINTENANCE AS DESIGNATED BY TOWN OF MIDDLETOWN.

PLANTING NOTES

1. IN AREAS OF FLY-OVERS FOR HOLES 1, 3, 4, 5 & 9 REMOVE TALL VEGETATION, PRIMARILY RED MAPLE (ACER RUBRUM) SAPLINGS WITHIN AN APPROXIMATELY 80 FOOT WIDE CORRIDOR AND REPLACE WITH LOW COMPACT SHRUBS INCLUDING INKBERRY, SHEEP LAUREL AND SWEET GALE (MYRICA GALE). SHRUBS WILL BE PLANTED IN STAGGERED ROWS, 5-6 FEET ON CENTER, 2-3 FEET IN HEIGHT AFTER PLANTING. THE VEGETATION WILL BE MAINTAINED AT A HEIGHT OF 10 FEET. HERBACEOUS PLANTS WILL BE ALLOWED TO PROPAGATE. AS MANY AS POSSIBLE EXISTING HIGHBUSH BLUEBERRY SHRUBS IN THIS AREA SHALL BE PRESERVED.

2. CUT TREES AND SHRUBS WITH A STUMPER AND GRIND STUMPS ON-SITE. REVEGETATE WITH CINNAMON FERN (OSMUNDA CINNAMOMEA), SENSITIVE FERN (ONOCLEA SENSIBILIS), JOE-PYE WEED (EUPATORIUM MACULATUM), INKBERRY, MEADOW SWEET (SPIRAEA LATIFOLIA) AND STEEPLEBUSH (SPIRAEA TOMENTOSA). PLANT SPECIES IN AN INTERSPERSED FASHION AND MAINTAIN AT A MAXIMUM HEIGHT OF 3 FEET.

3. ALL DISTURBED AREAS WILL BE ALLOWED TO REVEGETATE NATURALLY WITH HERBACEOUS PLANTS.

4. ANY PLANTINGS NOT SURVIVING AT LEAST ONE GROWING SEASON WILL BE REPLACED.

TURF AND WILDFLOWER MIXES

GREENS

BROWNTOP BENTS AGROSTIS TENUIS 50 %
COLONIAL BENTS AGROSTIS CASTELLANA 50 %

TEES, FAIRWAYS AND ROUGH

CREEPING RED FESUCE FESTUCA RUBRA RUBRA 10 %
BROWNTOP BENTS AGROSTIS TENUIS 30 %
CHEWINGS FESCUE FESTUCA RUBRA 60 %

WILDFLOWER MEADOW
(NORTHEAST MIXTURE, AS PER AMERICAN MEADOWS, INC. SHELBURNE, VT)

ANNUAL SUNFLOWER	*HALIANTHUS ANNUS*	A 1/2%
BABY BLUE EYES	*NEMOPHILIA MENZIESII*	A 1/2%
BABY'S BREATH	*GYPSOPHILA ELEGANS*	A 8%
BIRDSFOOT TREFOIL	*LOTUS CORNICULATUS*	P 1%
BLACK-EYED SUSAN	*RUDBECKIA HIRTA*	B 3%
BLUE FLAX	*LINUM PERENNE LEWISII*	P 8%
CALIFORNIA POPPY	*ESCHSCHOLZIA CALIFORNICA*	A 1%
CORNFLOWER	*CENTAURA CYANNUS*	A 13%
DAME'S ROCKET	*HESPERIS MATRONALIS*	P 6%
GLORIOSA DAISY	*RUDBECKIA GLORIOSA*	P 5%
LANCE-LEAF COREOPSIS	*COREOPSIS CYANUS*	P 5%
MEXICAN HAT	*RATIBIDA COLUMNARIS*	P 1/2%
NONE-SO-PRETTY	*SILENE ARMERIA*	A 1%
OX-EYE DAISY	*CHRYSANTHEMUM LEUCANTHEMUM*	P 3%
PERENNIAL GAILLARDIA	*GAILLARDIA ARISTATA*	P 1%
PERENNIAL LUPINE	*LUPINUS PERENNIS*	P 6&
PLAINS COREOPSIS	*COREOPSIS TINCTORIA*	A 5 %
PURPLE CONEFLOWER	*ECHINACEA PURPUREA*	P 5%
RED POPPY	*PAPAVER RHOEAS*	A 5%
ROSE MALLOW	*LAVATERA TRIMESTRIS*	A 5%
SCARLET FLAX	*LINUM GRANDIFLORUM RUBRUM*	A 1%
SHASTA DAISY	*CHRYSANTHEMUM MAXIM*	P 1%
SIBERIAN WALLFLOWER	*CHEIRANTHUS ALLIONII*	P 3%
SULPHER COSMOS	*COSMOS SULPHUREAUS*	A 2%
WILD COSMOS	*COSMOS BIPINNATUS*	A 6%
WILD LARKSPUR	*DELPHINIUM AJACIS*	A 1/2%
WILD SWEET WILLIAM	*DIANTHUS BARBATUS*	B 4%

A=ANNUAL B=BIENNIAL P=PERENNIAL

GENERAL NOTES

1. THE GOLF COURSE SHALL BE OPERATED IN GENERAL CONFORMANCE WITH THE NEWPORT NATIONAL ORCHARD/VINYARD GOLF COURSES IPM MANUAL" COMPILED BY SCOTT DONNELLY ROCHE, DATED RECEIVED MAY 18, 2006.

2. ALL APPLICATIONS OF PESTICIDES AND OTHER GOLF COURSE MAINTENANCE CHEMICALS SHALL BE IN STRICT ACCORDANCE WITH ANY AND ALL APPLICABLE RI DEM/ DIVISION OF AGRICULTURE AND US EPA REGULATIONS, AS WELL AS IN ACCORDANCE WITH MANUFACTURER'S USAGE INSTRUCTIONS.

3. AS INDICATED IN THE SUBMITTED NARRATIVE, DURING PERIODS OF EXTENDED DROUGHT, THE IRRIGATION OF THE GOLF COURSE SHALL THEN BE RESTRICTED FIRST TO FAIRWAYS, GREENS AND TEES ONLY; AND IF DROUGHT CONDITIONS CONTINUE, THE IRRIGATION OF THE GOLF COURSE SHALL THEN BE RESTRICTED FIRST TO GREENS AND TEES ONLY.

4. THE FERTILIZATION RATES SHALL BE NO GREATER THEN THOSE INDICATED ON THE MEMO ENTITLED "ADDENDUM FOR FERTILIZATION; NEWPORT NATIONAL GOLF COURSE: APPLICATION 05-0328", DATED JULY 31, 2006, BY GERALYN SMALL, PE OF NORTHEAST ENGINEERS AND CONSULTANTS, INC, 55 JOHN CLARKE ROAD, MIDDLETOWN, RI 02842. THE FERTILIZATION RATES SHALL BE CONSIDERED BEING APPLICATION RATES ON AN ANNUAL BASIS (SEE BELOW).

Anticipated Fertilization of NNGC West Course

	Nitrogen (lbs/1,000sf)	Phosphorus (lbs/1,000sf)	Potassium (lbs/1,000sf)
Tees	3	3	12
Greens	3	3	8
Fairways	2.5	0.5	1.5
Roughs	3	0.5	1.5

1. Information is based on the fertilization of the NNGC – East Course – The Orchards

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WWW.NORTHEASTENGINEERS.COM

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 JUN 2 7 2007 FILE # 07-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
W. Joseph Casey

No.	Revision	Date	App.
1	RIDEM WETLANDS DIVISION, COMMENTS	12/06	

Designed By: LES | Drawn by: CSM | Checked by:
Scale: N/A | Date: 03JAN05

Project Title:
NEWPORT NATIONAL GOLF CLUB WEST COURSE
AP 118, LOT 132; AP 123, LOTS 12 & 700;
AP 124, LOTS 5, 29 & 108
MITCHELL'S LANE AND WYATT ROAD
MIDDLETOWN, RHODE ISLAND

Client/Owner:
MR4A-JV LIMITED PARTNERSHIP
10 POST OFFICE SQUARE, SUITE 750
BOSTON, MA 02109

Issued for:
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT-WETLANDS DIVISION
PRELIMINARY DETERMINATION

Drawing Title:
CONSTRUCTION NOTES

A. ERIC OFFENBERG 12-20-06
No. 7866
REGISTERED PROFESSIONAL ENGINEER CIVIL

Drawing Number: GC-3
Sheet 38 of 38
Project Number: 04068.0
Survey Index: – –

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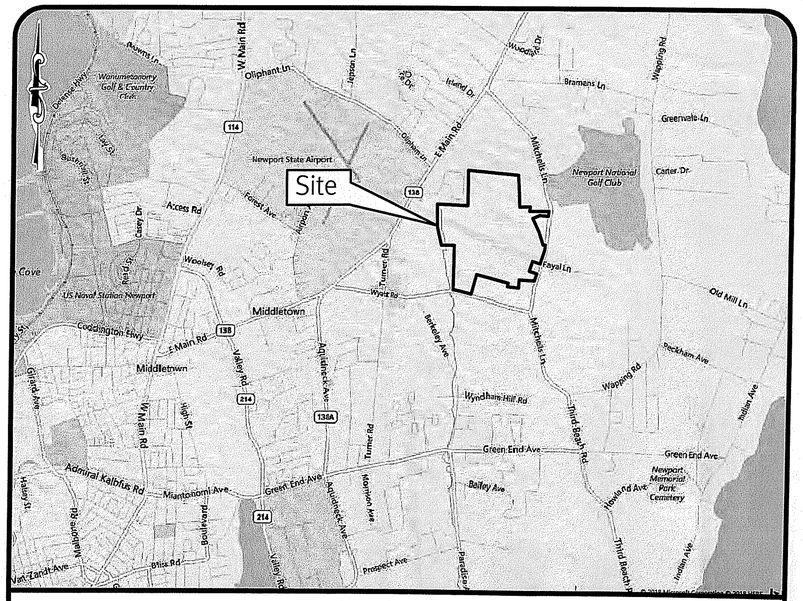
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P:\Projects\2004\04068 NEWPORT NATIONAL GOLF-WEST COURSE\DRAWINGS\CURRENT\PROPOSED\04068_C1.DWG

Proposed Modification Plans

Newport National West Course

Located on Wyatt Road and Mitchell's Lane
Middletown, Rhode Island
Assessor's Plat 124 Lot 29



Sheet Index

1. Cover Sheet
2. Overall Plan
3. Soil Erosion and Sediment Control Plan-1
4. Soil Erosion and Sediment Control Plan-2
5. Drainage Plan 1
6. Drainage Plan 2
7. Soil Erosion and Sediment Control Details
8. Detail Sheet

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No.	Date	Description	By
1	08-22-2018	Resubmit Submissions	K.M.D.
0	07-19-2018	Modified Permit Plans	A.A.

Drawn By: P.A.A. Design By: C.A.D.

Environmental Management
SEP 6 2018
Office of Water Resources

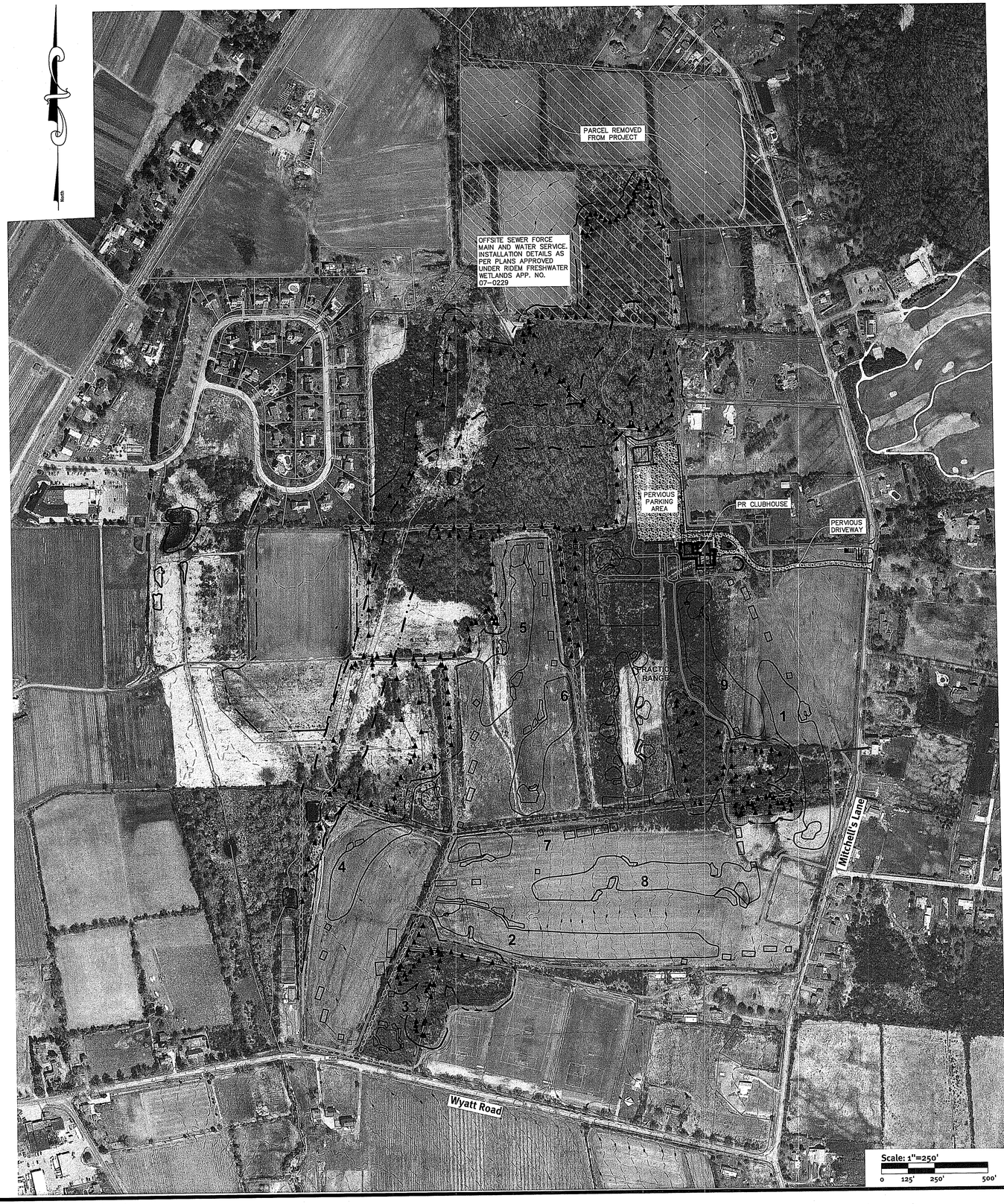
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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 01 2018 FILE # 07-0225
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Cover Sheet
Newport National West Course
Assessor's Plat 124, Lot 29
Middletown, Rhode Island
Applicant
John Pereira c/o Combined Properties, Inc.
300 Commercial Street
Malden, MA 02148

SHEET 1 OF 8

DE Job No: 2569-001 Copyright 2018 by DiPrete Engineering Associates, Inc.



General Notes:

1. THE SITE IS LOCATED ON THE TOWN OF MIDDLETOWN ASSESSOR'S PLAT 124 LOT 29.
2. THE OWNER OF AP 124 LOT 29 IS

   NEWPORT NATIONAL REAL ESTATE, LLC
   C/O COMBINED PROPERTIES, INC.
   300 COMMERCIAL STREET
   MALDEN, MA 02148
3. THE PURPOSE OF THIS PLAN IS TO SUPPLEMENT THE "CONSTRUCTION DRAWINGS FOR NEWPORT NATIONAL GOLF CLUB, MIDDLETOWN, RI" PREPARED BY HILLS & FORREST DATED OCTOBER 2017. THIS PLAN SHALL SUPERSEDE THE PREVIOUS CONSTRUCTION PLANS FOR THESE ITEMS:

   * DRAINAGE PIPE SIZING AND INVERTS.
   * PROPOSED GRADING IN THE SOUTHERN PORTION OF THE IRRIGATION POND AND ADJACENT AREAS, TO MAINTAIN A CONSISTENT BERM ELEVATION OF 161. THESE CONTOURS ARE SHOWN AS A DARKER OVERLAY ABOVE THE PROPOSED SURFACE FROM THE OCTOBER 2017 DRAWINGS.
   * SOIL EROSION AND SEDIMENT CONTROL PLANS AND DETAILS.

NOTE: WHERE DETAILS HAVE CHANGED FROM PREVIOUSLY-APPROVED PLANS ("THE WEST COURSE, NEWPORT NATIONAL GOLF COURSE, MIDDLETOWN, RHODE ISLAND, RIDEM PRELIMINARY DETERMINATION APPLICATION, JULY 2005" PREPARED BY NORTHEAST ENGINEERS AND CONSULTANTS, INC.) THEY ARE DEPICTED IN THIS PLAN SET.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 01 2018 FILE # 07-0229
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Existing Legend
(AS SHOWN ON PROPOSED PLANS)
NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

- PROPERTY LINE
- ASSESSORS LINE
- BUILDING
- BRUSHLINE
- TREELINE
- GUARDRAIL
- FENCE
- RETAINING WALL
- STONE WALL
- MINOR CONTOUR LINE
- MAJOR CONTOUR LINE
- WATER LINE
- SEWER LINE
- SFM — SEWER FORCE MAIN
- G — GAS LINE
- E — ELECTRIC LINE
- OHW — OVERHEAD WIRES
- D — DRAINAGE LINE
- HkC / CaD — SOILS LINES
- 50' PERIMETER WETLAND
- 100' RIVERBANK WETLAND
- 200' RIVERBANK WETLAND
- ZONE X / ZONE X — FEMA BOUNDARY
- STREAM
- B1 B2 — WETLAND LINE & FLAG

- NAIL
- DRILL HOLE FOUND/SET
- BOUND FOUND/SET
- SIGN
- BOLLARD
- SOIL EVALUATION
- CB — CATCH BASIN
- DCB — DOUBLE CATCH BASIN
- DMH — DRAINAGE MANHOLE
- FES — FLARED END SECTION
- GUY POLE
- EMH — ELECTRIC MANHOLE
- UP — UTILITY/POWER POLE
- LIGHTPOST
- SMH — SEWER/SEPTIC MANHOLE
- SEWER VALVE
- CLEANOUT
- HYDRANT
- IRRIGATION VALVE
- WATER VALVE
- WELL
- MONITORING WELL
- UNKNOWN MANHOLE
- GAS VALVE
- BENCH MARK
- STREAM FLOW DIRECTION

Proposed Legend
NOT ALL ITEMS SHOWN WILL APPEAR ON PLANS

- PROPERTY LINE
- BUILDING SETBACKS
- CHAINLINK FENCE
- GUARDRAIL (RIDOT STD 34.2.0, 34.4.0 OR APPROVED EQUAL)
- RETAINING WALL
- 308 — MINOR CONTOUR LINE
- 310 — MAJOR CONTOUR LINE
- +312 — SPOT ELEVATION
- EDGE OF PAVEMENT
- BITUMINOUS BERM (RIDOT STD 7.5.1)
- CONCRETE CURB (RIDOT STD 7.1.0)
- BUILDING FOOTPRINT
- BUILDING OVERHANG
- ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- HEAVY DUTY CONCRETE
- CONCRETE SIDEWALK
- ASPHALT SIDEWALK
- SAWCUT LINE
- SIGN (RIDOT STD 24.6.2 AS APPLICABLE)
- SINGLE LIGHT
- DOUBLE LIGHT
- OVERHANGING LIGHT
- ACCESSIBLE PARKING SPACE SYMBOLS

- DRAINAGE LINE
- SD — PERFORATED SUBDRAIN
- SWALE
- SFM — SEWER FORCE MAIN
- G — GAS LINE
- W — WATER LINE
- HYDRANT ASSEMBLY
- WATER SHUT OFF
- WATER VALVE
- THRUST BLOCK
- S — SEWER LINE
- OHW — OVERHEAD WIRE
- ETC — ELECTRIC, TELEPHONE, CABLE LINE
- LIMIT OF DISTURBANCE/ LIMIT OF CLEARING
- SEDIMENTATION BARRIER, SILT FENCE (RIDOT STD 9.2.0), COMPOST SOCK OR APPROVED EQUAL
- 2:1 OR 1:1 SLOPES
- UNDERGROUND INFILTRATION OUTLINE
- POND ACCESS
- RIP RAP
- SAND FILTER
- BIO RETENTION
- CATCH BASIN
- DOUBLE CATCH BASIN
- MANHOLE
- FLARED END SECTION
- HEAD WALL

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No.	Date	Description	By:
1	08-29-2018	Modified to Design Plans	K.D.
0	07-20-2018	Modified to Design Plans	P.A.A.

Design By: C.A.D.
Drawn By: P.A.A.

Overall Plan
Newport National West Course
Assessor's Plat 124, Lot 29
Middletown, Rhode Island

Applicant
John Pereira c/o Combined Properties, Inc.
300 Commercial Street
Malden, MA 02148

SHEET 2 OF 8

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Soil Erosion Control Legend:

- SILT FENCE ALONG LIMIT OF WORK IN AREAS OUTSIDE OF COASTAL BANK BUFFER AND AROUND INFILTRATION AREAS
- LIMIT OF DISTURBANCE
- CONSTRUCTION ENTRANCE
- CATCH BASIN INLET PROTECTION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED NOV 01 2018 FILE # 07-0229
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Scale: 1"=100'
0 50' 100' 200'

Soil Erosion and Sediment Control Plan-1

Newport National West Course

Assessor's Plat 124, Lot 29
Middletown, Rhode Island

Applicant
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SHEET 3 OF 8

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No.	Date	Description	Design By: C.A.D.
1	08-24-2018	Regulatory Submission	K.J.D.
0	07-25-2018	Modified Design Plans	P.A.A.
			Drawn By: P.A.A.
			Ckd By:

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TEMPORARY CATCH BASIN INLET PROTECTION PRIOR TO SITE STABILIZATION, SILT SACK, STAKED FILTREXX (tm), FILTER SOCK, OR ENGINEER APPROVED EQUAL (TYP)

PROPOSED LIMIT OF DISTURBANCE (TYP)

50' PERIMETER WETLAND (TYP)

POND

STONE WALL (TYP)

Mitchell's Lane

LIMIT OF DISTURBANCE SHALL MATCH APPROVED LIMIT UNDER RIDEM FRESHWATER WETLANDS APP NO. 07-0229

STOCKPILE AND STAGING AREA

SGA

PG

PRACTICE RANGE

5

6

9

See Sheet 3

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED NOV 01 2018 FILE # 07-0229
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Scale: 1"=100'
0 50' 100' 200'

NORTH

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No.	Date	Description	By:
1	08-24-2018	Resolution Submissions	K.D.
2	09-28-2018	Wetland Buffer Plan	K.A.

Drawn By: P.A.A. Design By: C.A.D.

Soil Erosion and Sediment Control Plan-2

Newport National West Course

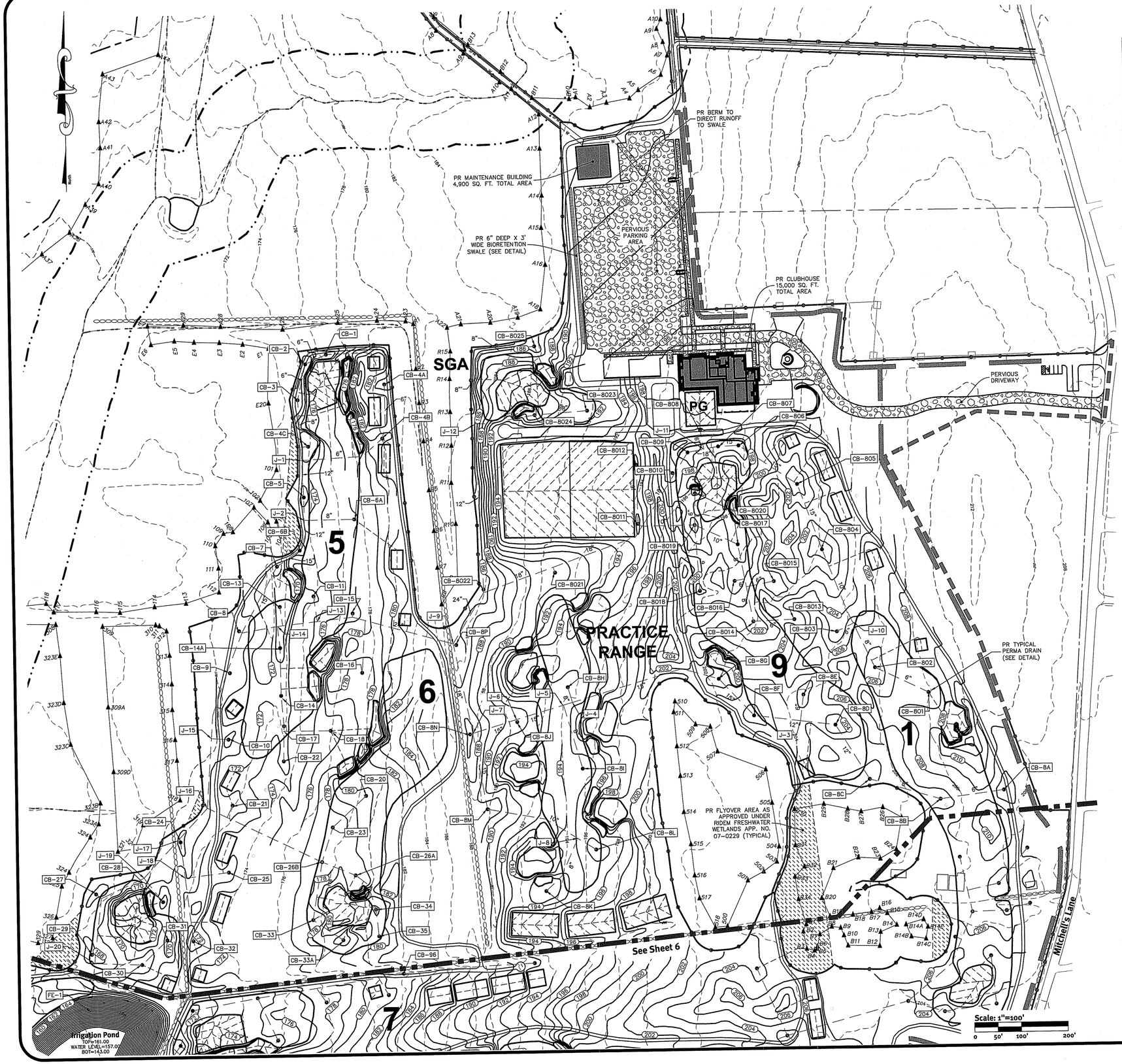
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Middletown, Rhode Island

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From	To	PIPE DATA Diam (In.)	Length (FL.)	Slope (FL/FL)	RIM Upper	RIM Lower	INVERT Upper	INVERT Lower
CB-1	CB-2	6	49.00	0.041	175.00	173.00	172.50	170.50
CB-2	CB-3	6	78.00	0.013	173.00	172.00	170.50	169.50
CB-4A	CB-4B	6	115.00	0.033	180.00	179.00	176.00	174.25
CB-4B	J-1	6	188.00	0.031	179.00	–	174.25	168.50
CB-3	CB-4C	8	100.00	0.007	172.00	172.00	169.50	168.77
CB-4C	CB-5	12	107.00	0.007	172.00	172.00	168.77	168.00
CB-6A	J-2	8	107.00	0.005	176.00	–	174.00	173.50
CB-5	CB-6B	12	116.00	0.009	172.00	172.00	168.00	167.00
CB-6B	CB-7	15	60.00	0.008	172.00	169.00	167.00	166.50
CB-7	CB-8	15	160.00	0.006	169.00	170.00	166.50	165.50
CB-8A	CB-8B	6	137.00	0.018	125.50	207.00	206.00	203.50
CB-8B	CB-8C	8	157.00	0.014	123.88	204.00	203.50	201.30
CB-8C	CB-8D	12	137.00	0.007	204.00	203.00	201.30	200.30
CB-8E	J-3	6	56.40	0.021	203.00	–	200.50	199.30
CB-8D	CB-8F	12	175.80	0.013	203.00	201.00	200.30	198.00
CB-8F	CB-8G	15	109.00	0.009	201.00	200.00	198.00	197.00
CB-8G	J-4	15	327.00	0.025	200.00	–	197.00	188.76
CB-8I	J-5	8	141.70	0.023	194.00	–	191.50	188.25
CB-8H	J-4	8	125.00	0.014	193.00	–	190.50	188.76
CB-8J	J-6	6	6.00	0.092	190.00	–	186.00	185.45
J-6	J-7	15	98.00	0.025	–	–	185.45	183.00
CB-8K	J-8	8	133.50	0.010	192.00	–	189.50	188.16
CB-8L	CB-8M	10	252.50	0.014	194.00	188.00	188.80	185.30
CB-8M	J-7	15	164.40	0.014	188.00	–	185.30	183.00
CB-8N/J-7	J-9/CB-8P	18	196.30	0.025	179.00	–	183.00	178.00
CB-8o1	CB-8o2	6	126.00	0.017	207.50	205.00	204.50	202.30
CB-8o2	J-10	8	104.70	0.020	205.00	–	202.30	200.20
CB-8o3	J-10	6	39.00	0.033	204.00	–	201.50	200.20
J-10	CB-8o4	10	170.70	0.019	–	200.00	200.20	197.00
CB-8o4	CB-8o5	15	150.00	0.028	200.00	200.00	200.20	196.00
CB-8o5	CB-8o6	15	150.00	0.020	200.00	196.00	196.00	193.00
CB-8o6	CB-8o7	15	43.70	0.011	196.00	196.00	193.00	192.50
CB-8o8	J-11	6	41.90	0.041	198.00	–	194.00	192.27
CB-8o7	CB-8o9	18	66.50	0.008	196.00	195.50	192.50	192.00
CB-8o9	CB-8o11	18	185.50	0.011	196.50	195.50	192.00	190.00
CB-8o12	CB-8o11	6	126.00	0.008	195.50	195.50	191.50	190.50
CB-8o13	CB-8o14	6	88.20	0.023	203.00	201.00	200.50	198.50
CB-8o14	CB-8o17	8	167.20	0.018	201.00	198.00	198.50	195.50
CB-8o17	CB-8o19	10	101.30	0.020	198.00	196.50	195.50	193.50
CB-8o18	CB-8o19	6	141.40	0.018	198.00	196.50	196.00	193.50
CB-8o20	CB-8o19	8	67.70	0.007	197.50	196.50	194.00	193.50
CB-8o19	CB-8o11	10	112.60	0.027	196.50	195.50	193.50	190.50
CB-8o11	CB-8o21	18	214.90	0.016	195.50	190.50	190.50	187.00
CB-8o21	CB-8o22	18	158.40	0.047	190.50	185.50	187.00	179.50
CB-8o23	CB-8o24	8	112.70	0.018	191.50	190.00	188.50	186.50
CB-8o24	J-12	8	129.50	0.041	190.00	–	186.50	181.20
CB-8o25	J-12	8	267.80	0.005	185.25	–	182.50	181.20
J-12	CB-8o22	12	359.40	0.005	–	185.50	181.20	179.40
CB-8o22	J-9	24	126.70	0.011	185.50	–	179.40	178.00
CB-8P	J-9	6	5.00	0.100	185.00	–	178.50	178.00
J-9	CB-15	24	223.20	0.022	–	176.00	178.00	173.00
CB-16	CB-15	8	110.00	0.008	177.50	176.00	174.50	173.63
CB-15	J-13	24	75.77	0.040	176.00	–	173.00	169.95
CB-11	J-13	6	54.50	0.019	173.00	–	171.00	169.95
CB-13	J-14	6	40.50	0.013	170.00	–	167.50	166.96
J-13	J-14	24	74.78	0.040	0.00	–	169.95	166.95
CB-18	CB-17	6	101.10	0.040	175.00	173.00	172.50	168.50
CB-22	CB-17	8	64.00	0.016	173.00	173.00	169.50	168.50
CB-17	CB-14	12	76.60	0.007	173.00	173.00	168.50	168.00
CB-14	CB-14A	12	101.90	0.010	173.00	170.00	168.00	167.00
CB-14A	J-14	12	46.40	0.011	170.00	–	167.00	166.50
J-14	CB-8	24	76.70	0.013	–	170.00	166.50	165.50
CB-8	CB-9	30	88.90	0.011	170.00	170.00	165.50	164.50
CB-9	CB-10	30	148.10	0.007	170.00	169.00	164.50	163.50
CB-10	J-15	30	148.00	0.017	169.00	–	166.00	163.50
CB-35	CB-34	8	58.00	0.007	179.50	178.60	176.50	176.10
CB-34	CB-26A	12	89.20	0.007	178.60	175.50	176.10	175.50
CB-26A	CB-26B	12	77.50	0.026	175.50	173.50	175.50	173.50
CB-33A	CB-33	6	78.00	0.006	175.00	174.50	175.00	174.50
CB-33	CB-26B	6	125.40	0.008	174.50	173.50	174.50	173.50
CB-20	CB-23	8	97.90	0.020	125.25	125.08	176.50	174.50
CB-23	CB-26B	10	77.20	0.013	125.08	173.50	174.50	173.50
CB-26B	CB-21	15	222.90	0.022	173.50	168.50	173.50	168.50
CB-21	J-16	10	46.60	0.129	168.50	–	168.50	162.50
J-16	J-17	30	93.20	0.027	–	–	162.50	160.00
CB-32	CB-25	6	136.00	0.012	170.00	172.00	168.50	166.90
CB-25	J-18	8	94.00	0.028	172.00	–	169.50	166.90
J-18	CB-24	8	75.00	0.085	–	169.00	166.90	160.50
CB-24	J-17	8	10.00	0.050	169.00	–	160.50	160.00
J-17	J-19	30	107.50	0.009	–	–	160.00	159.00
CB-28	J-19	6	67.60	0.118	169.50	–	167.00	159.00
J-19	CB-27	30	101.00	0.010	–	166.00	159.00	158.00
CB-27	CB-29	30	121.80	0.011	166.00	167.00	158.00	156.70
CB-29	J-20	30	18.00	0.011	167.00	–	156.70	156.50
CB-31	CB-30	6	75.00	0.007	169.00	169.00	166.50	166.00
CB-30	J-20	6	101.80	0.002	169.00	–	166.00	165.50
J-20	FE-1	30	103.50	0.024	–	–	156.50	154.00

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 01 2018 FILE # 07-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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Boston • Providence • Newport

KEVIN DEMERS
No. 8557
REGISTERED PROFESSIONAL ENGINEER CIVIL

This regulatory submission set shall not be used for construction purposes unless stamped 'issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements and OSHA conformance in the implementation of this plan and design.

No.	Date	Description
1	08-24-2018	Regulatory Submissions
0	06-29-2018	Master Plan Review

Drawn By: P.A.A. | By: | K.D.
Design By: C.A.D.

Drainage Plan-1

Newport National West Course

Assessor's Plat 12a, Lot 29
Middletown, Rhode Island

Applicant
John Pereira c/o Combined Properties, Inc.
300 Commercial Street
Malden, MA 02148

SHEET 5 OF 8

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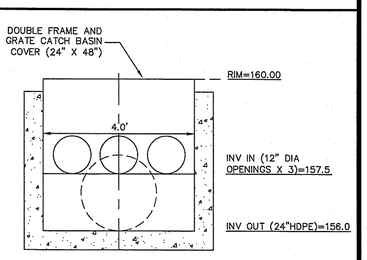
From	To	PIPE DATA Diam (in.)	Length (Ft.)	Slope (Ft./Ft.)	RIM Upper	RIM Lower	INVERT Upper	INVERT Lower
CB-36	FE-2	6	56.90	0.114	163.00	154.00	160.50	154.00
CB-38	CB-39	6	94.40	0.011	165.00	162.00	160.50	159.50
CB-39	FE-3	6	33.30	0.165	162.00	154.00	159.50	154.00
CB-40	CB-42	6	117.80	0.008	161.00	160.00	159.00	158.00
CB-42	FE-4	6	46.00	0.087	160.00	154.00	158.00	154.00
CB-43	CB-44	6	132.40	0.008	201.00	200.00	198.50	197.50
CB-44	CB-45	10	65.00	0.005	200.00	200.00	197.50	197.15
CB-45	CB-46	12	70.00	0.005	200.00	202.00	197.15	196.77
CB-46	CB-48	12	144.20	0.013	202.00	200.00	196.77	194.88
CB-47	CB-48	6	88.00	0.013	200.00	200.00	196.00	194.88
CB-48	J-21	12	40.30	0.020	200.00	–	194.88	194.06
CB-49	CB-50	6	161.70	0.019	201.00	188.50	198.50	195.50
CB-50	J-21	8	86.00	0.017	188.50	–	195.50	194.06
J-21	CB-51	12	80.00	0.031	–	195.50	194.06	191.57
CB-51	CB-52	12	111.00	0.031	195.50	192.50	191.57	188.11
CB-52	CB-53	12	95.00	0.031	192.50	190.50	188.11	185.15
CB-53	CB-54	12	69.00	0.031	190.50	187.00	185.15	182.98
CB-54	CB-55	15	52.00	0.031	187.00	185.88	182.98	181.36
CB-55	CB-56	15	68.00	0.031	185.88	183.75	181.36	179.25
CB-56	CB-57	15	96.30	0.029	183.75	179.50	179.25	176.45
CB-57	CB-58	15	78.00	0.031	179.50	177.50	176.45	174.00
CB-58	CB-59	15	251.70	0.028	177.50	170.00	174.00	167.00
CB-59	CB-60	18	166.80	0.018	170.00	166.50	167.00	164.00
CB-60	CB-61	18	69.00	0.017	166.50	165.00	164.00	162.80
CB-61	J-22	18	44.80	0.018	165.00	–	162.80	162.00
CB-65	J-23	6	73.40	0.017	207.00	–	204.50	203.27
CB-63	CB-64	6	97.40	0.005	207.50	207.00	204.50	204.00

FROM	TO	DIAM. (IN.)	LENGTH (FT.)	SLOPE (FT./FT.)	RIM UPPER	RIM LOWER	INVERT UPPER	INVERT LOWER
CB-64	J-23	6	68.43	0.011	207.00	–	204.00	203.27
J-23	CB-68	8	46.50	0.017	–	206.00	203.27	202.50
CB-66	CB-67	6	52.30	0.010	205.50	205.50	203.75	203.25
CB-67	CB-68	6	73.30	0.010	205.50	206.00	203.25	202.50
CB-68	CB-69	8	72.60	0.013	206.00	205.00	202.50	201.58
CB-69	CB-73	10	189.90	0.008	205.00	203.00	201.58	200.00
CB-70	CB-71	8	75.60	0.007	204.00	203.50	201.50	201.00
CB-71	CB-72	8	96.40	0.005	203.50	203.50	201.00	200.50
CB-72	CB-73	8	81.40	0.006	203.50	203.00	200.50	200.00
CB-73	CB-74	10	269.60	0.015	203.00	203.00	200.00	196.00
CB-80	CB-74	6	157.20	0.029	203.00	203.00	200.50	196.00
CB-75	CB-76	6	56.50	0.009	201.00	201.00	198.50	198.00
CB-76	CB-77	6	76.50	0.007	201.00	202.00	198.00	197.50
CB-77	CB-78	8	54.20	0.006	202.00	202.00	197.50	197.15
CB-78	CB-79	8	77.20	0.005	202.00	201.00	197.15	196.75
CB-79	CB-74	8	109.40	0.007	201.00	203.00	196.75	196.00
CB-74	J-24	15	128.00	0.009	203.00	–	196.00	194.85
CB-81	J-24	6	36.80	0.072	200.00	–	197.50	194.85
J-24	CB-82	15	57.70	0.013	–	200.00	194.85	194.11
CB-82	CB-83	15	165.25	0.013	200.00	198.00	194.11	192.00
CB-83	J-25	15	117.00	0.013	198.00	–	192.00	190.50
CB-84	CB-85	10	117.30	0.009	198.00	198.00	195.50	194.50
CB-85	CB-86	10	116.90	0.021	198.00	195.00	194.50	192.00
CB-86	CB-87	12	79.20	0.006	195.00	195.00	192.00	191.50
CB-87	J-25	12	52.60	0.019	195.00	–	191.50	190.50
J-25	CB-88	15	83.90	0.030	–	193.00	190.50	188.00
CB-88	CB-89	15	150.55	0.029	193.00	186.00	188.00	183.63
CB-89	CB-90	15	38.10	0.030	186.00	185.00	183.63	182.50
CB-90	CB-91	15	110.00	0.029	185.00	181.50	182.50	179.30
CB-91	CB-92	15	49.80	0.029	181.50	180.00	179.30	177.85

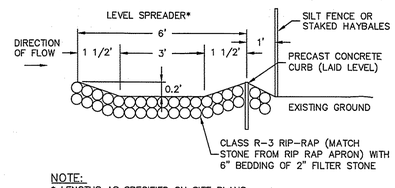
FROM	TO	DIAM. (IN.)	LENGTH (FT.)	SLOPE (FT./FT.)	RIM UPPER	RIM LOWER	INVERT UPPER	INVERT LOWER
CB-92	J-26	18	292.40	0.029	180.00	–	177.85	169.37
CB-93A	CB-93B	6	121.20	0.015	177.00	174.50	174.50	172.70
CB-93B	CB-93C	10	157.60	0.018	174.50	172.00	172.70	169.80
CB-93C	J-26	18	41.70	0.010	172.00	–	169.80	169.37
J-26	J-27	24	57.20	0.029	–	–	169.37	167.70
J-27	CB-94	24	77.00	0.029	–	169.00	167.70	165.46
CB-94	J-28	24	70.00	0.028	169.00	–	165.46	163.50
CB-95	CB-96	8	281.30	0.049	192.00	182.50	189.50	175.76
CB-96	CB-97	15	54.60	0.005	182.50	180.00	175.76	175.50
CB-97	CB-98	15	134.20	0.017	180.00	177.00	175.50	173.20
CB-98	CB-99	15	35.60	0.037	177.00	175.50	174.50	173.20
CB-100	CB-99	8	100.20	0.010	174.50	175.50	172.00	171.00
CB-99	CB-101	15	142.00	0.014	175.50	171.50	171.00	169.00
CB-101	CB-102	15	79.00	0.025	171.50	169.50	169.00	167.00
CB-102	CB-103	15	103.00	0.024	169.50	167.00	167.00	164.50
CB-103	J-28	18	67.21	0.015	167.00	–	164.50	163.50
J-28	J-29	30	49.60	0.013	–	–	163.50	162.87
J-29	J-22	30	70.00	0.012	–	–	162.87	162.00
J-22	FE-5	30	78.00	0.103	–	154.00	162.00	154.00
CB-105	CB-106	24	60.10	0.008	158.00	158.00	155.50	155.00
CB-106	CB-107	24	126.80	0.008	158.00	157.00	155.00	154.00
CB-108	CB-109	24	50.50	0.010	158.50	158.50	156.00	155.50
CB-110	CB-109	8	72.80	0.021	159.50	158.50	157.00	155.50
CB-109	CB-111	24	62.60	0.008	158.50	158.00	155.50	155.00
CB-111	CB-112	30	76.90	0.007	158.00	158.00	155.00	154.50
CB-112	CB-107	30	115.50	0.004	125.25	158.00	154.50	154.00

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Scale: 1"=100'
0 50' 100' 200'



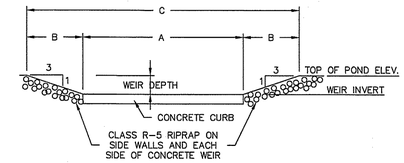
Outlet Control Structure
VERT SCALE: 1"=2'



NOTE:
* LENGTHS AS SPECIFIED ON SITE PLANS

Level Spreader
NOT TO SCALE

LOCATION	TOP OF POND ELEV.	WEIR INVERT	WEIR DEPTH	A	B	C
IRRIGATION POND	161.00	160.00	1.0'	70'	3'	76'



Emergency Spillway Detail
NOT TO SCALE

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KEVIN DEMERS
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REGISTERED PROFESSIONAL ENGINEER
CIVIL

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By:
1	08-24-2018	Regulatory Submissions	K.I.D.
0	07-10-2018	Modified Design Plans	P.A.A.

Design By: C.A.D.
Drawn By: P.A.A.

Drainage Plan-2

Newport National West Course

Assessor's Plat 124, Lot 29
Middletown, Rhode Island

Applicant
John Pereira c/o Combined Properties, Inc.
300 Commercial Street
Malden, MA 02148

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SHEET 6 OF 8

Establishment of Vegetative Cover

1. SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. THE CONTRACTOR SHALL INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.
2. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED OR PROTECTED.
3. THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH RHODE ISLAND'S STANDARD SPECIFICATION, M.20.
4. THE SEED MIX SHALL BE GENERAL SEED MIX URI #2.
5. EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. SEEDING SCHEDULE SHOULD CONFORM WITH RHODE ISLAND'S STANDARD SPECIFICATION, L.02.03.1 SEEDING DATES. PERMANENT SEEDING SHALL BE DURING THE APRIL 1 TO MAY 31 OR AUGUST 15 TO OCTOBER 15. TEMPORARY SEEDING MAY BE DONE ANYTIME BETWEEN MARCH 15 AND NOVEMBER 15 WITH THE APPROVAL OF THE ENGINEER OF RECORD. FERTILIZE AS REQUIRED BY SOIL TESTING TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS AND BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUMS FOR EACH VARIETY.
6. TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING. TEMPORARY HAY MULCH TO BE TACKED IN PLACE WITH NYLON MESH NETTING. SIDE SLOPES OF BASINS SHALL BE TREATED WITH NORTH AMERICAN GREEN EROSION CONTROL BLANKETS SUCH AS S150 OR APPROVED EQUAL. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER. HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 2 TONS/ACRE.
7. ALL TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
8. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH LOCAL MUNICIPAL REQUIREMENTS AND THE RHODE ISLAND STANDARD SPECIFICATION FOR ROAD AND BRIDGE SECTION 202.
9. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED AND/OR STABILIZED.
10. ALL AREAS PROPOSED TO BE VEGETATED THAT ARE DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. PERMANENTLY SEEDED AREAS SHALL BE PROTECTED DURING ESTABLISHMENT WITH MULCH. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STANDARD IS MAINTAINED. WELL ESTABLISHED VEGETATION SHALL BE MAINTAINED. BARE OR ERODED AREAS SHALL BE IMMEDIATELY REPAIRED AND RESEED BY THE CONTRACTOR. ACTIVITIES SHALL BE CONFINED TO WITHIN THE LIMIT OF WORK AS SHOWN ON THE PLANS.
11. MAXIMUM PERMANENT GRADED SLOPE WITHIN THE SITE IS TO BE 3:1 UNLESS NOTED OTHERWISE.
12. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.
13. REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989 AS A GUIDE.

Maintenance: Short Term/Long Term

1. THE STONE STABILIZATION PADS AT THE SITE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE MAINTENANCE SHALL INCLUDE TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENTS SPILLED, DROPPED, WASHED, OR TRACKED ON THE PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
2. ALL SILT FENCE, TEMPORARY TREATMENTS (HAY, STRAW, ETC.), AND TEMPORARY PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. SILT FENCE OR STRAW WATTLE SHALL BE INSPECTED BY THE CONTRACTOR WITHIN 24 HOURS AFTER EACH STORM EVENT OR EVERY 7 DAYS, WHICHEVER COMES FIRST, FOR UNDERMINING AND DETERIORATION. A STORM EVENT SHALL BE DEFINED AS 0.25 INCHES OF RAIN WITHIN A 24-HOUR PERIOD. THE SILT FENCE SHALL BE REPAIRED OR REPLACED AS WARRANTED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE SILT FENCE BECOMES FILLED IN WITH SEDIMENT. THE SILT FENCE SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. FOLLOWING CONFIRMATION FROM THE TOWN OF MIDDLETOWN AND OR THE PROJECT ENGINEER THAT AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER HAS BEEN ESTABLISHED SILT FENCE SHALL BE REMOVED.
3. THE CONTRACTOR SHALL MAINTAIN ALL TOPSOIL STOCKPILES AND SEDIMENT BARRIERS THROUGHOUT CONSTRUCTION. EXTREME CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT SPILL OVER THE SEDIMENT BARRIER. SILT FENCE SHALL BE STAKED AROUND THE STOCKPILES.
4. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED, PROTECTED, AND MAINTAINED BY THE CONTRACTOR FOLLOWING FINAL GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL CHECK REGULARLY ALL SEEDED AREAS TO SEE THAT A GOOD STAND OF VEGETATION IS MAINTAINED. THE CONTRACTOR MUST REPAIR OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.

Non-Structural Measures

1. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE ACCESS ROAD, UTILITY EASEMENTS AND AREAS TO BE GRADED.
2. TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATION SHALL BE SUBJECT TO APPROVAL BY THE PROJECT ENGINEER. A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.
3. ALL TYPES OF WASTE GENERATED AT THE SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE LAW AND TOWN OF MIDDLETOWN REGULATIONS. CONSTRUCTION DEBRIS SHALL BE DISPOSED OF DAILY TO AVOID EXPOSURE TO PRECIPITATION.
4. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION OF NON-STRUCTURAL MEASURES AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.
5. REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE.

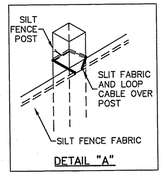
Sequence of Staging and Land Disturbing Activities

1. CONTRACTOR IS RESPONSIBLE FOR SOIL EROSION AND SEDIMENT CONTROL (SE & SC) ONSITE. SEQUENCE OF CONSTRUCTION PROVIDED MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE OWNER OR OWNER'S REPRESENTATIVE.
2. CONSTRUCTION TO BEGIN IN FALL 2018 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
3. SURVEY AND STAKE CENTERLINE OF THE LIMIT OF SEDIMENTATION BARRIERS/LIMIT OF DISTURBANCE.
4. PLACE SEDIMENTATION BARRIERS (SILT FENCE OR STRAW WATTLE) AS SHOWN ON THE PLANS AND STAKED IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS.
5. TOPSOIL IS TO BE STRIPPED FROM THE APPROVED AREAS AND STOCKPILED IN APPROVED LOCATIONS. TOPSOIL STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIERS AND COVERED OR TEMPORARILY SEEDED.
6. BEGIN LAYOUT OF BUILDINGS, GRADING, DRAINAGE, AND UTILITIES.
7. START CONSTRUCTION OF INDIVIDUAL BUILDINGS. CONSTRUCTION TO INCLUDE SURVEYING AND STAKING OF THE PROPOSED LIMIT OF CLEARING, INSTALLATION OF SEDIMENTATION BARRIERS, CLEARING AND GRUBBING FOR INDIVIDUAL BUILDINGS, REMOVAL OF TOPSOIL, GRADING, EXCAVATION FOR FOUNDATION, BUILDING CONSTRUCTION, UTILITY SERVICE INSTALLATION, DRIVEWAY INSTALLATION AND LANDSCAPING.
8. STREET TREES AND EXISTING MONUMENTS TO BE PROTECTED DURING CONSTRUCTION.
9. FINISH PERMANENT STABILIZATION AND REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS.

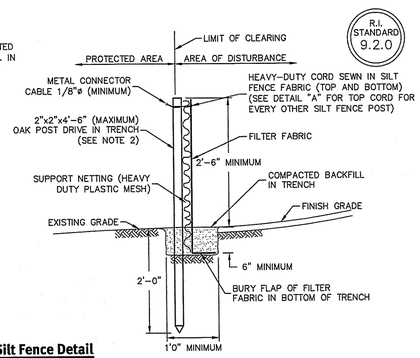
General Note:

1. THESE PLANS ARE MEANT AS A SUPPLEMENT TO PREVIOUS PLANS BY OTHERS. THE PURPOSE OF THIS PLAN SET IS TO PROVIDE FOR SOIL EROSION GUIDANCE, CLOSED DRAINAGE SYSTEM DESIGN, AND MINOR GRADING REVISIONS.

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
2. 2"x2"x4'-6" (MAXIMUM) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAXIMUM) O.C. IN WETLAND AREAS AND 4'-0" (MAXIMUM) O.C. IN WETLAND RAVINE. GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x4'-6"(MINIMUM) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



DETAIL "A"



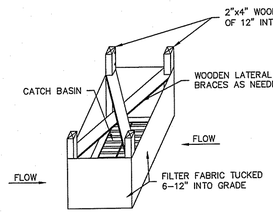
Silt Fence Detail
NOT TO SCALE

Plan References:

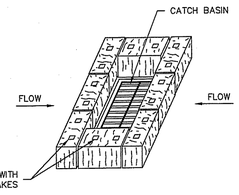
1. PLANS ENTITLED: "CONSTRUCTION DRAWINGS FOR NEWPORT NATIONAL GOLF CLUB, MIDDLETOWN, RI, 3RD NINE ADDITION"
   SCALE: 1" = 100'
   DATED: OCTOBER 2017
   BY: HILLS & FORREST INTERNATIONAL GOLF COURSE ARCHITECTS, TOLEDO, OHIO
2. PLANS ENTITLED: "THE WEST COURSE, NEWPORT NATIONAL GOLF COURSE, MIDDLETOWN, RHODE ISLAND, RIDEM PRELIMINARY DETERMINATION APPLICATION"
   SCALE: VARIES
   DATED: JULY 2005
   BY: NORTHEAST ENGINEERS AND CONSULTANTS, INC., MIDDLETOWN, RI

Dimensional Regulations:

CURRENT ZONING:	OS
	REQUIRED
MINIMUM LOT AREA:	100,000 SF
MINIMUM FRONTAGE AND LOT WIDTH:	250'
MINIMUM FRONT YARD:	50'
MINIMUM SIDE YARD:	50'
MINIMUM REAR YARD:	50'
MAXIMUM STRUCTURE HEIGHT:	30'
MAXIMUM LOT COVERAGE:	10%



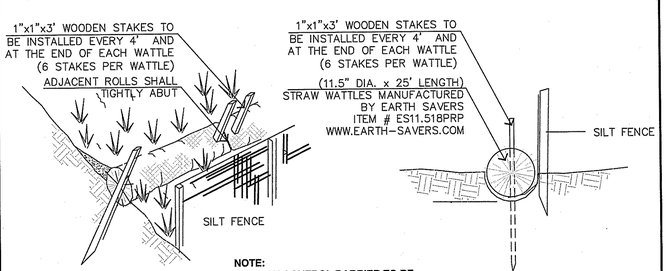
SILT FENCE INSTALLATION FOR CATCH BASINS AT LOW POINTS



STRAW BALE FILTER INSTALLATION FOR CATCH BASINS AT LOW POINTS

NOTES:
1. STORMWATER INLETS WHICH DO NOT DISCHARGE TO SEDIMENT TRAPS OR BASINS MUST BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED.
2. SEDIMENT MUST BE REMOVED FROM INLET PROTECTION AFTER EACH STORM.
3. REFER TO LONG TERM/SHORT TERM MAINTENANCE NOTES AND OPERATION & MAINTENANCE PLAN FOR TIMING OF PLACEMENT AND REMOVAL OF EROSION CONTROL ELEMENTS.

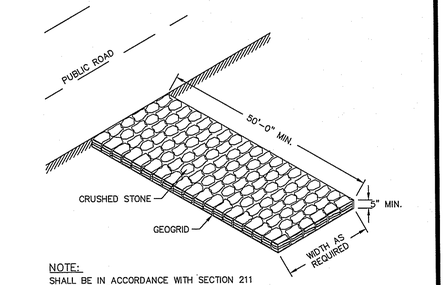
Catch Basin Erosion Control
NOT TO SCALE



NOTE:
EROSION CONTROL BARRIER TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS

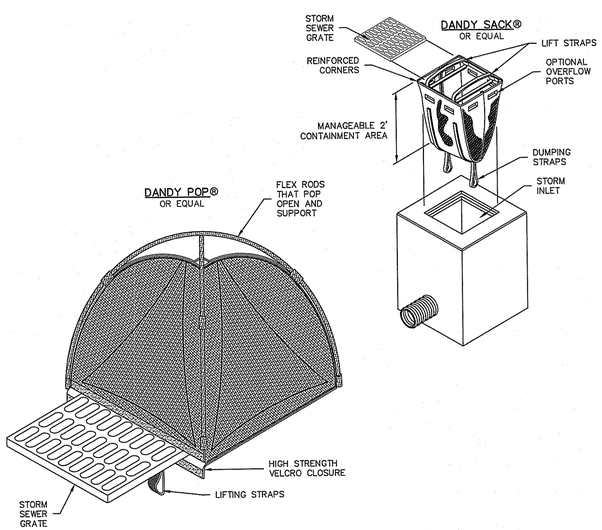
CROSS SECTION VIEW

Silt Fence/Straw Wattle Sediment Barrier
NOT TO SCALE



NOTE:
SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.
USE RIDOT 2" CRUSHED STONE.

Construction Entrance
NOT TO SCALE



Inlet Sediment Control Devices
NOT TO SCALE

Notes:

THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.

THE FINAL LANDSCAPING, SOIL STABILIZATION AND EROSION CONTROL IS TO BE COMPLETED BY THE OWNER PER THE APPROVED PLAN. ALTERATIONS TO THIS DESIGN ARE TO BE IDENTIFIED BY THE HOMEOWNER IN WRITING TO THE DESIGN ENGINEER FOR APPROVAL AND POSSIBLE RESUBMISSION TO THE RIDEM.

THE CONTRACTOR SHALL COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS SHALL BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DEA THAT UTILITY SERVICE IS AVAILABLE.

ALL EXISTING UTILITIES SHOWN ARE FROM DRAWINGS BY OTHERS, OR INFORMATION PROVIDED TO DEA AND ARE SUBJECT TO CHANGE. NO ONE SHOULD RELY ON THE UTILITY LOCATIONS SHOWN FOR CONSTRUCTION AND DIG SAFE MUST BE NOTIFIED PRIOR TO ANY WORK.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 01 2018 FILE # 07-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

DiPrete Engineering
Boston • Providence • Newport
90 Broadway Newport, RI 02840
tel 401-619-5890 fax 401-464-6006 www.diprete-eng.com

KEVIN DEMERS
No. 8557
REGISTERED PROFESSIONAL ENGINEER CIVIL

This regulatory submission set shall not be used for construction purposes unless signed and issued for construction purposes and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By:
1	08-Nov-2018	Regulatory Submissions	K.J.D.
0	07-10-2018	Modified Design Plans	P.A.A.

Drawn By: P.A.A. Design By: C.A.D.

Soil Erosion and Sediment Control Details

Newport National West Course

Assessor's Plat 12a, Lot 29
Middletown, Rhode Island

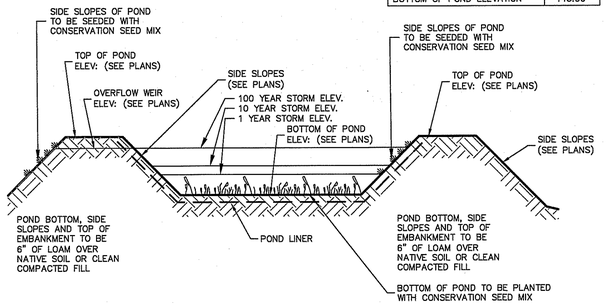
Applicant
John Pereira c/o Combined Properties, Inc.
300 Commercial Street
Malden, MA 02148

SHEET 7 OF 8

DE Job No: 2569-001 Copyright 2018 by DiPrete Engineering Associates, Inc.

z:\dermain\projects\2569-001 newport national west course\autocad drawings\2569-001-secr.dwg Plotted: 8/29/2018

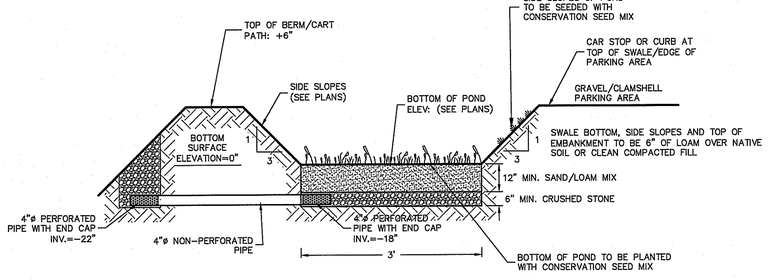
DESCRIPTION	IRR. POND
TOP OF POND ELEVATION	161.00'
100 YEAR STORM ELEVATION	160.72'
10 YEAR STORM ELEVATION	159.06'
1 YEAR STORM ELEVATION	157.92'
WATER LEVEL FOR IRRIGATION	157.00'
BOTTOM OF POND ELEVATION	143.00'



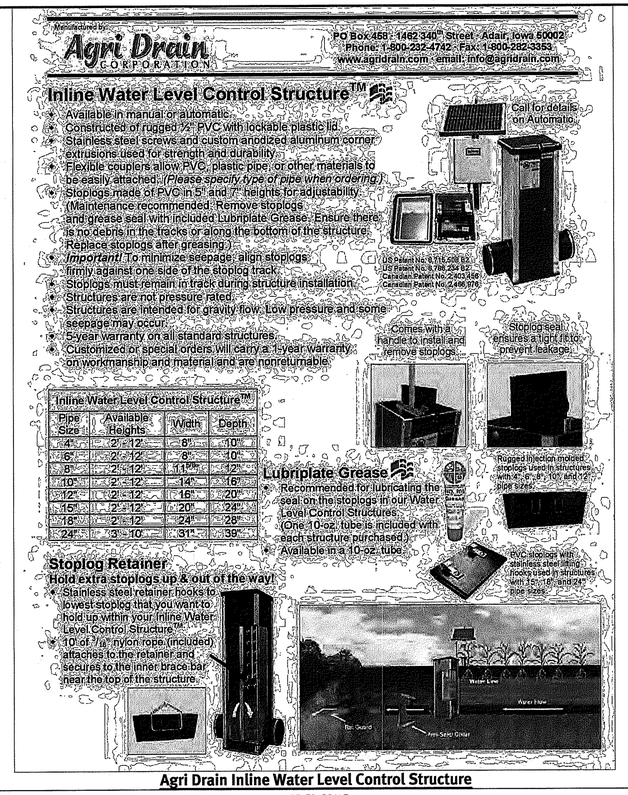
Irrigation Pond
NOT TO SCALE

CONSTRUCTION NOTES:

1. ALL DRAINAGE BASIN BERMS SHALL BE CONSTRUCTION OF CLEAN LOAM CONFORMING TO RIDOT SPECIFICATION M.18.01, OR OF SUITABLE ON-SITE FILL MATERIAL. SUITABLE ON-SITE FILL SHALL BE SCREENED LOOSE, FRIABLE SOIL THAT IS FREE OF REFUSE, STUMPS, ROOTS, ROCKS, COBBLES, STONES, BRUSH, NOXIOUS WEEDS, LITTER AND OTHER MATERIAL THAT WILL PREVENT THE FORMATION AND COMPACTION OF A STRUCTURALLY STABLE BERM AND THAT WILL PROVIDE A SUITABLE SEED BED. CONSTRUCTION OF BERMS MAY CONTINUE DURING COLD WEATHER, HOWEVER, FROZEN SOILS SHALL BE REMOVED AND SHALL NOT BE PERMITTED AS FILL FOR THE FORMATION OF BERMS. ALL BERMS SHALL BE CONSTRUCTED IN MAXIMUM 12" LIFTS. EACH LIFT SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (AASHTO T180) BEFORE THE NEXT LIFT IS PLACED.
2. ALL BASINS AND SWALES SHALL BE CONSTRUCTED WITH A MINIMUM SIX INCH (6") DEPTH OF CLEAN LOAM TO FINISHED FLOOR GRADE, AND A MINIMUM FOUR INCH (4") DEPTH OF CLEAN LOAM TO FINISHED BERM, OR SLOPE GRADE. CLEAN LOAM SHALL CONFORM TO RIDOT SPECIFICATION M.18.01. LOAM APPLIED TO BASIN AND SWALE FLOORS SHALL BE HAND RAKED BEFORE SEEDING. UNDER NO CIRCUMSTANCES SHALL BASIN OR SWALE FLOORS BE COMPACTED USING MACHINERY.
3. BASINS SHALL BE SEEDED WITH CONSERVATION SEED MIX.
4. IF SWALES, BASIN BERMS OR SLOPES ARE CONSTRUCTED OUTSIDE THE NORMAL GROWING SEASON FOR THE SPECIFIED SEED MIX, TEMPORARY STABILIZATION SHALL BE PROVIDED BY THE APPLICATION OF A BIODEGRADABLE EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S75BN, OR SIMILAR).
5. ALL STORM DRAIN OUTLETS TO BASINS AND SWALES SHALL BE CONSTRUCTED WITH FLARED END SECTIONS.
6. ALL PERFORATED DRAINAGE PIPES SHALL BE CONSTRUCTED WITH A FILTER FABRIC SURROUND.
7. IF LEDGE, OR GROUNDWATER IS ENCOUNTERED DURING EXCAVATION FOR BASINS, SWALES, OR INFILTRATION TRENCHES, THE NATURAL GROUND SHALL BE BLASTED, OR EXCAVATED AS NECESSARY TO A MINIMUM DEPTH OF THREE FEET BENEATH THE DESIGN FLOOR ELEVATION OF THE STRUCTURE. THE REMOVED MATERIAL SHALL BE REPLACED WITH CRUSHED GRAVEL, CRUSHED ROCK, OR SUITABLE PERVIOUS FILL THAT SHALL EXTEND AS FAR DOWNSTREAM FROM THE STRUCTURE AS NECESSARY TO PROVIDE POSITIVE DRAINAGE FOR ANY GROUNDWATER ENCOUNTERED. SUITABLE PERVIOUS FILL MATERIAL SHALL BE INSPECTED AND APPROVED BY THE PROJECT ENGINEER PRIOR TO USE.
8. POND SHALL BE LINED WITH BEND TARP AND LINER, PPL-24 OR EQUAL. LINER MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
9. POND WORK SHALL BE DONE DURING THE DRY SEASON TO MINIMIZE GROUNDWATER IMPACTS. DURING EXCAVATION AND PRIOR TO LINER INSTALLATION, GROUNDWATER INFILTRATION INTO THE POND WILL OCCUR. CONTRACTOR SHALL PUMP CAPTURED WATER THROUGH A SEDIMENT SCREEN AND OVER-EXCAVATE THE PERMANENT DISCHARGE SWALE AREA TO USE AS A TEMPORARY SEDIMENT BASIN.



Bioretention Swale
NOT TO SCALE

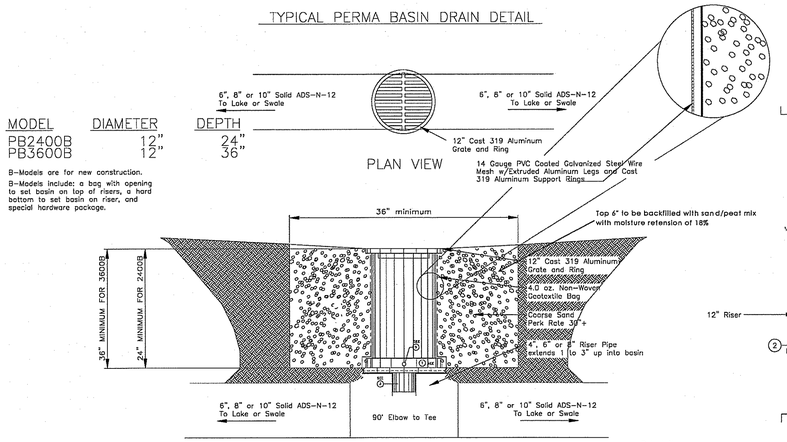


Agri Drain Inline Water Level Control Structure
NOT TO SCALE

TYPICAL PERMA BASIN DRAIN DETAIL

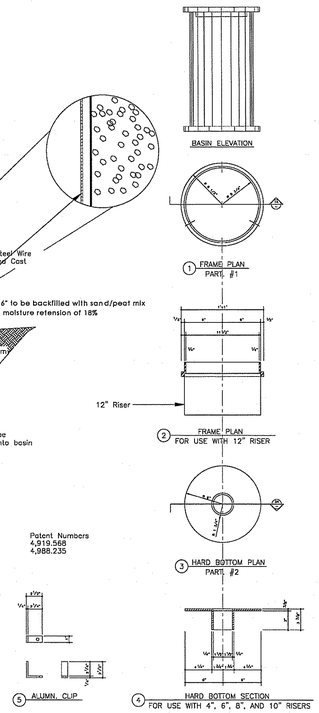
MODEL	DIAMETER	DEPTH
PB2400B	12"	24"
PB3600B	12"	36"

B-Models are for new construction.
B-Models include: a bag with opening to set basin on lop of risers, a hard bottom to set basin on riser, and special hardware package.



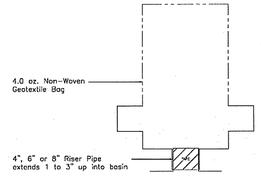
CROSS SECTION
TURF DRAINAGE CO. OF AMERICA
P.O. Box 702
Marrero, LA 70072
1-800-999-2794
Florida: 813-681-9204

Patent Numbers
4,919,568
4,988,235

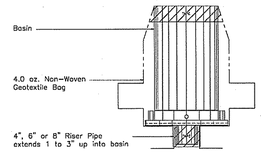


INSTALLATION STEPS

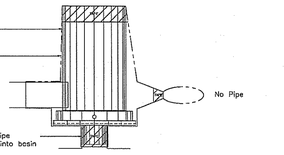
1. Using black PVC drainage tape, secure the bottom sleeve to the outside of the riser.



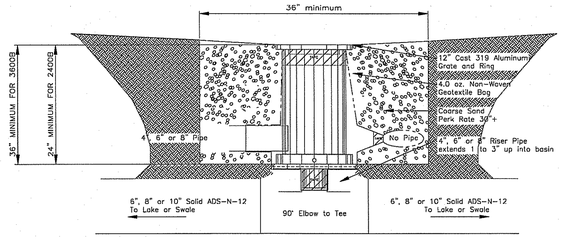
2. Insert the basin into bag so that bottom of plastic hard bottom rests on the riser, and the hard bottom insert is inside of riser pipe.
3. Use a flat head screw driver to drive geotextile bag between wire wall and upper frame.
4. Use black PVC drainage tape to cover any gaps that exist between the bag and the top frame.



5. Any additional piping that is entering this basin should enter through the universal sleeves that are located on the sidewalls. There are two sleeves that can be used to attach 4, 6, or 8" pipe. When using these sleeves, wrap the sleeves around the pipe, and then use wire clippers to cut an opening out of the wire wall. Place the mouth of the pipe through the cylinder of the wall so that water will flow freely into the basin. Secure the sleeve around the pipes with black PVC drainage tape. If there are no pipes entering the basin at the time of installation, the universal sleeves should be wrapped with tape like a ponytail, to be available for future installations.



6. Sod around the basin. If sod work is not done immediately after the installation of the basin, a 15 inch square piece of a geotextile fabric should be placed on the top frame and held in place by the placement of the grate on the frame until the area is sodded and stable.



TURF DRAINAGE CO. OF AMERICA
P.O. Box 702
Marrero, LA 70072
1-800-999-2794
Florida: 813-681-9204

Patent Numbers
4,919,568
4,988,235

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 01 2018 FILE # 07-0229
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Jonathan D. Warwick

NOT TO SCALE

Perma Drain Detail

DiPrete Engineering
90 Broadway Newport, RI 02840
tel 401-619-5990 fax 401-464-6006 www.diprete-eng.com
Boston • Providence • Newport

KEVIN DEMERS
No. 8557
REGISTERED PROFESSIONAL ENGINEER
CIVIL

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA conformance in the implementation of this plan and design.

No.	Date	Description	By
1	08-24-2018	Regulatory Submissions	K.V.D.
0	07-26-2018	Permit Plans	K.A.

Design By: C.A.D.
Drawn By: P.A.A.

General Details
Newport National West Course
Assessor's Plat 124, Lot 99
Middletown, Rhode Island
Applicant:
John Pereira c/o Combined Properties, Inc.
300 Commercial Street
Malden, MA 02148

SHEET 8 OF 8

DE Job No: 2569.001 Copyright 2018 by DiPrete Engineering Associates, Inc.

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