

SITE DEVELOPMENT PLAN

SOLAR ENERGY FIELD

BOUTILIER ROAD

IN

LEICESTER, MASSACHUSETTS

JUNE 14, 2016

REVISIONS THROUGH SEPTEMBER 2, 2016



CONTRACTOR

PRO-TECH ENERGY SOLUTIONS, LLC
MICHAEL ALADICH
215 EXECUTIVE DRIVE
MOORESTOWN, NEW JERSEY 08057
(856) 437-6220

APPLICANT:

ZPT ENERGY SOLUTIONS, LLC
BRENDAN GOVE, MANAGER
309 EAST COUNTY ROAD
RUTLAND, MASSACHUSETTS 01543
TEL: (774) 696-8729

OWNER

THE LAFLASH FAMILY REVOCABLE TRUST 2015
25 THOMPSON POND ROAD
SPENCER, MA 01562

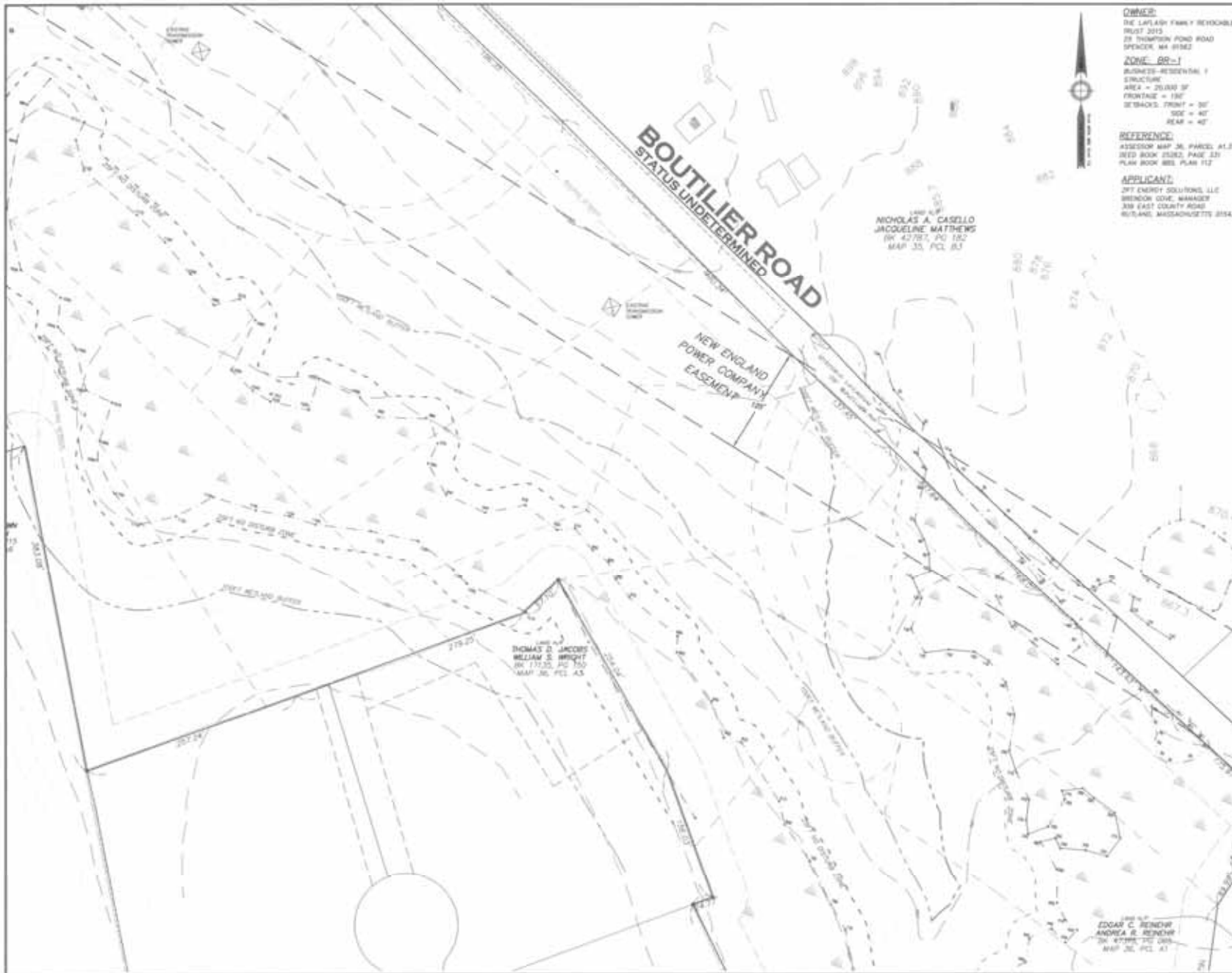
CIVIL ENGINEER & LAND SURVEYOR:

HANNIGAN ENGINEERING, INC.
8 MONUMENT SQUARE
LEOMINSTER, MASSACHUSETTS 01453
TEL: (978) 534-1234

PLAN INDEX

SHEET	1	SHEET INDEX PLAN
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PERMITTING SET



OWNER:
THE LAFASH FAMILY TRUST
TRUST 2013
25 THOMPSON FOND ROAD
SPENCER, MA 01562

ZONE: RR-1
BUSINESS-RESIDENTIAL 1
STRUCTURE
AREA = 25,000 SF
FRONTAGE = 130'
SETBACKS: FRONT = 30'
SIDE = 40'
REAR = 40'

REFERENCE:
ASSESSOR MAP 36, PARCEL A1.3
DEED BOOK 2582, PAGE 237
PLAN BOOK 888, PLAN 112

APPLICANT:
2PT ENERGY SOLUTIONS, LLC
BRENDON COLE, MANAGER
330 EAST COUNTY ROAD
BUTLAND, MASSACHUSETTS 01543

PROJECT INFORMATION

LAND INFORMATION
DEED BOOK: 2582, PAGE 237
DEED BOOK: 888, PLAN 112

GENERAL NOTES:
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ZONING REGULATIONS OF THE TOWN OF BUTLAND, MASSACHUSETTS.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ZONING REGULATIONS OF THE TOWN OF BUTLAND, MASSACHUSETTS.
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20. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ZONING REGULATIONS OF THE TOWN OF BUTLAND, MASSACHUSETTS.

1	06/25/2014	PEER REVIEW COMMENTS	CNA
2	06/25/2014	PEER REVIEW COMMENTS	CNA
NO	04/16	REVISIONS	BY



HANNIGAN ENGINEERING, INC.
CIVIL ENGINEERS & LAND SURVEYORS
200 HANNAH STREET
LEICESTER, MASSACHUSETTS 01545
TEL: (508) 528-1234
FAX: (508) 528-1234

EXISTING CONDITIONS PLAN
IN
LEICESTER, MASSACHUSETTS

PREPARED FOR:
2PT ENERGY SOLUTIONS
215 EXECUTIVE DRIVE
ROCHESTER, NEW JERSEY 08857
TEL: (908) 437-8220

GRAPHIC SCALE: 1"=30'

CALC: CNA/NEH **DRWN: CNA/NEH** **SCALE: 1"=30'**
CHKD: NEH **APPR: NEH** **DATE: JAN 14, 2014**
SRV: AT-PB **FB: 1.25/1042818** **JOB NO: 2570**
TAB: 3-SECOND **SHEET 3 OF 8** **PLAN NO: 12-12**

SCHEDULE OF PROPOSED DRAINAGE STRUCTURES & ELEVATIONS			
ITEM	TYPE	SIZE	ELEVATION
1.00	1" DIA. P.V.	12" DIA. P.V.	12" DIA. P.V.
2.00	2" DIA. P.V.	12" DIA. P.V.	12" DIA. P.V.
3.00	3" DIA. P.V.	12" DIA. P.V.	12" DIA. P.V.
4.00	4" DIA. P.V.	12" DIA. P.V.	12" DIA. P.V.
5.00	5" DIA. P.V.	12" DIA. P.V.	12" DIA. P.V.
6.00	6" DIA. P.V.	12" DIA. P.V.	12" DIA. P.V.
7.00	7" DIA. P.V.	12" DIA. P.V.	12" DIA. P.V.
8.00	8" DIA. P.V.	12" DIA. P.V.	12" DIA. P.V.
9.00	9" DIA. P.V.	12" DIA. P.V.	12" DIA. P.V.
10.00	10" DIA. P.V.	12" DIA. P.V.	12" DIA. P.V.



PROJECT INFORMATION

LAND INFORMATION	
LAND AREA	20.0 ACRES
PROPOSED AREA	20.0 ACRES
GENERAL NOTES	
1. LOCATION OF ALL UTILITIES AND APPROPRIATE ACCESS AND EASEMENTS SHALL BE SHOWN ON THE PLAN AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (DOT) AND THE MASSACHUSETTS DEPARTMENT OF HIGHWAYS (MDH).	
2. ALL UTILITIES SHOWN ON THE PLAN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (DOT) AND THE MASSACHUSETTS DEPARTMENT OF HIGHWAYS (MDH).	
3. ALL UTILITIES SHOWN ON THE PLAN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (DOT) AND THE MASSACHUSETTS DEPARTMENT OF HIGHWAYS (MDH).	
4. ALL UTILITIES SHOWN ON THE PLAN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (DOT) AND THE MASSACHUSETTS DEPARTMENT OF HIGHWAYS (MDH).	
5. ALL UTILITIES SHOWN ON THE PLAN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (DOT) AND THE MASSACHUSETTS DEPARTMENT OF HIGHWAYS (MDH).	
6. ALL UTILITIES SHOWN ON THE PLAN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (DOT) AND THE MASSACHUSETTS DEPARTMENT OF HIGHWAYS (MDH).	
7. ALL UTILITIES SHOWN ON THE PLAN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (DOT) AND THE MASSACHUSETTS DEPARTMENT OF HIGHWAYS (MDH).	
8. ALL UTILITIES SHOWN ON THE PLAN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (DOT) AND THE MASSACHUSETTS DEPARTMENT OF HIGHWAYS (MDH).	
9. ALL UTILITIES SHOWN ON THE PLAN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (DOT) AND THE MASSACHUSETTS DEPARTMENT OF HIGHWAYS (MDH).	
10. ALL UTILITIES SHOWN ON THE PLAN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (DOT) AND THE MASSACHUSETTS DEPARTMENT OF HIGHWAYS (MDH).	

NO.	DATE	REVISIONS	BY
1	01/15/2018	PRELIMINARY	CH
2	01/15/2018	PRELIMINARY	CH



HANNIGAN ENGINEERING, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 100 WASHINGTON STREET
 SUITE 200
 BOSTON, MASSACHUSETTS 02108
 TEL: (617) 552-1111
 FAX: (617) 552-1112

SITE DEVELOPMENT PLAN IN LEICESTER, MASSACHUSETTS

PREPARED FOR:	
PRO-TECH ENERGY SOLUTIONS	
MICHAEL ALDRICH	
315 EXECUTIVE DRIVE	
MOORESTOWN, NEW JERSEY 08057	
TEL: (908) 437-8225	
GRAPHIC SCALE: 1"=50'	
CALC: CHA/WH	
DRAWN: CHA/WH	
SCALE: 1"=50'	
CHKD: WH	
APPR: WH	
DATE: JUN 14, 2018	
SRV: AT-JAB	
FBI: 1.157000018	
JOB NO: 15710	
TAB: 4-SITE	
SHEET 4 OF 5	
PLAN NO: 15-125	

EROSION & SEDIMENTATION CONTROL PLAN

GENERAL:

1. THE PURPOSE OF THIS PLAN IS TO PRESENT A PRELIMINARY METHOD OF CONSTRUCTION TO MINIMIZE THE EROSION AND SEDIMENTATION ACTIVITY DURING CONSTRUCTION. THE PLAN IS BASED ON THE ASSUMPTION THAT THE CONSTRUCTION ACTIVITY WILL BE LIMITED TO THE AREA OF THE CONSTRUCTION ACTIVITY AND THAT THE CONSTRUCTION ACTIVITY WILL BE LIMITED TO THE AREA OF THE CONSTRUCTION ACTIVITY.
2. THE CONSTRUCTION IS TO BE LIMITED TO THE AREA OF THE CONSTRUCTION ACTIVITY AND THAT THE CONSTRUCTION ACTIVITY WILL BE LIMITED TO THE AREA OF THE CONSTRUCTION ACTIVITY.
3. IF CHANGES IN THE PROJECT ARE REQUIRED DUE TO FIELD CONDITIONS, THE DEVELOPER/CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER FOR REVIEW OF THESE CONDITIONS. UPON REVIEW AND APPROVAL OF THE ENGINEER, THE CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE AREA OF THE CONSTRUCTION ACTIVITY.

4. ALLOCATION AND/OR RESTRICTION OF WEEDING AREAS SHALL BE LIMITED TO THE AREA OF THE CONSTRUCTION ACTIVITY AND THAT THE CONSTRUCTION ACTIVITY WILL BE LIMITED TO THE AREA OF THE CONSTRUCTION ACTIVITY.
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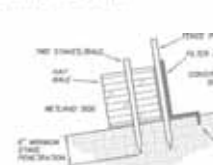
38. THE CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE AREA OF THE CONSTRUCTION ACTIVITY AND THAT THE CONSTRUCTION ACTIVITY WILL BE LIMITED TO THE AREA OF THE CONSTRUCTION ACTIVITY.
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CHAIN LINK FENCE DETAIL



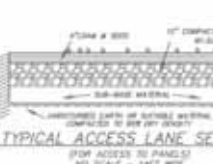
CHAIN LINK FENCE DETAIL
NO SCALE



HAYSTACKS WITH SILT FENCE DETAIL
NO SCALE



GRAVEL ACCESS LANE SECTION
NO SCALE - 1/4" = 1'



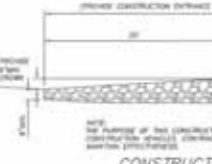
TYPICAL ACCESS LANE SECTION
NO SCALE - 1/4" = 1'



FENCE POST DETAIL
NO SCALE



CONSTRUCTION ENTRANCE
NO SCALE



EROSION CONTROL SLOPE DETAIL
NO SCALE

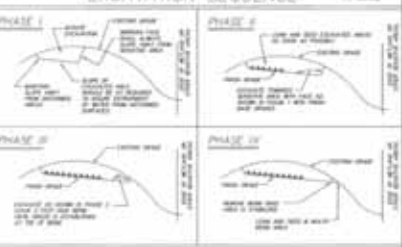


SILT SACK DETAIL
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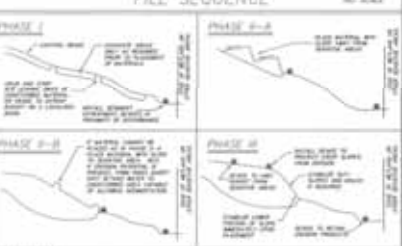


STRAW WATTLE DETAIL
NO SCALE

EXCAVATION SEQUENCE



FILL SEQUENCE



APPLICANT:
JFF ENERGY SOLUTIONS, LLC
BRENDA COLE, MANAGER
300 EAST COUNTY ROAD
PULFORD, MASSACHUSETTS 01944

OWNER:
THE LAFAYETTE FARM, INC.
25 THOMPSON POND ROAD
BENICOR, MA 01542

REFERENCE:
AEROSOL MAP, 30, PARCELS A1.2
DEED BOOK 25262, PAGE 23
PLAN BOOK 885, PLAN 112

NO.	DATE	REVISIONS	BY
1	04/05/2016	PEER REVIEW COMMENTS	CMA
2	04/05/2016	PEER REVIEW COMMENTS	CMA

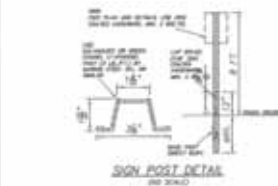
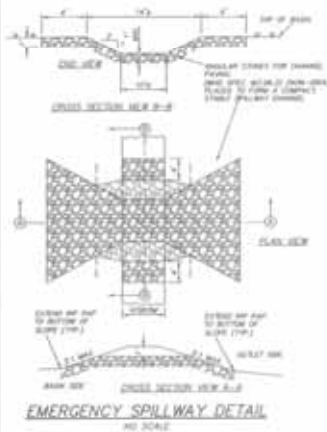
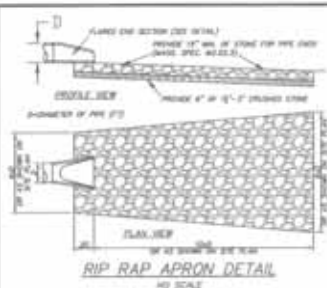


HANNIGAN ENGINEERING, INC.
SINCE 1948
SINCE 1948
SINCE 1948

CONSTRUCTION DETAILS
IN
LEICESTER, MASSACHUSETTS

PREPARED FOR:
PRO-TECH ENERGY SOLUTIONS
MICHAEL ALDRICH
275 EXECUTIVE DRIVE
WOODSTOCK, NEW JERSEY 08097
TEL: (201) 437-4333

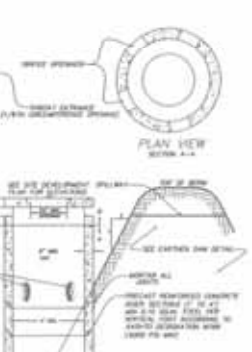
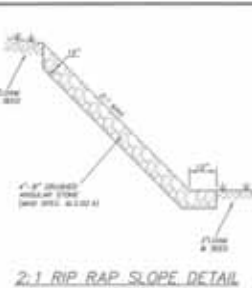
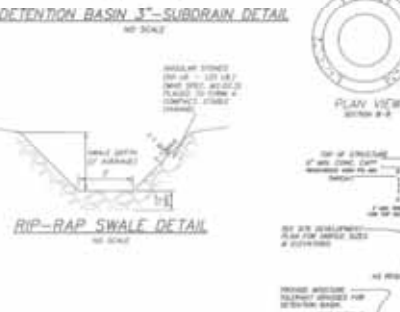
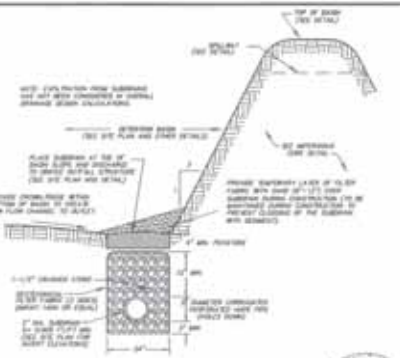
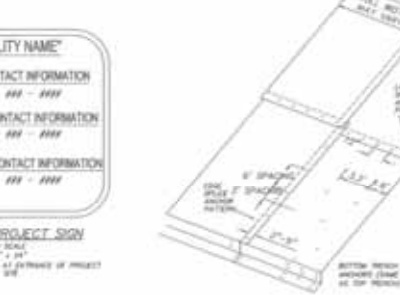
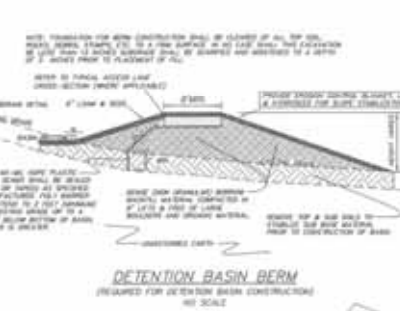
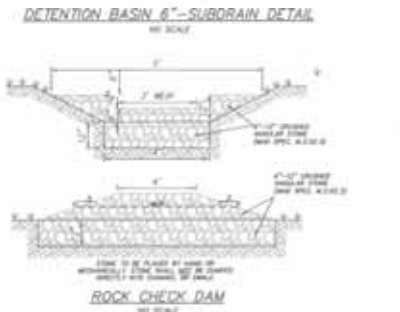
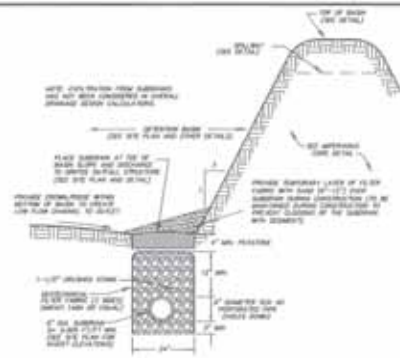
CALC:	CMA/NEH	DRWG:	CMA/NEH	SCALE:	NONE
CHKD:	NEH	APPD:	NEH	DATE:	JAN 14, 2016
SRV:	FB	JOB NO:	2570		
TAB:	7-8 (S&L)	SHEET	7 OF 8	PLAN	NO.12-10-25



PERIMETER SIGNAGE
NO SCALE
SHALL BE PLACED ALONG PERIMETER AT 30 FT INTERVALS

"FACILITY NAME"
OWNER CONTACT INFORMATION
(800) 888-8888
OPERATOR CONTACT INFORMATION
(800) 888-8888
EMERGENCY CONTACT INFORMATION
(800) 888-8888

TYPICAL PROJECT SIGN
NO SCALE
SHALL BE PLACED AT ENTRANCE OF PROJECT SITE



STORMWATER OPERATION AND MAINTENANCE PLAN

THE FOLLOWING SHALL BE CONSIDERED THE OPERATION & MAINTENANCE PLAN (OMP) FOR THE STORMWATER COLLECTION FACILITY AND ITS DEVELOPMENT. THIS OMP HAS BEEN PREPARED IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN AS ISSUED BY THE AUTHORITY OF ENVIRONMENTAL PROTECTION.

1. **SYSTEM OVERVIEW**
THE SYSTEM SHALL INCLUDE THE STORMWATER INFRASTRUCTURE AND ALL OF ITS COMPONENTS AS SHOWN ON THE SITE PLAN. THE SYSTEM SHALL INCLUDE THE STORMWATER FACILITIES AND THE STORMWATER SYSTEM. THE SYSTEM SHALL BE CONSIDERED AS A SINGLE ENTITY AND SHALL BE OPERATED AND MAINTAINED AS SUCH.

2. **SYSTEM OPERATION**
THE OPERATION OF THE SYSTEM SHALL BE CONSIDERED THE RESPONSIBLE PARTY FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM. THE SYSTEM SHALL INCLUDE THE STORMWATER INFRASTRUCTURE AND ALL OF ITS COMPONENTS AS SHOWN ON THE SITE PLAN. THE SYSTEM SHALL BE CONSIDERED AS A SINGLE ENTITY AND SHALL BE OPERATED AND MAINTAINED AS SUCH.

3. **SYSTEM MAINTENANCE**
THE FOLLOWING MAINTENANCE SCHEDULE SHALL BE FOLLOWED IN ORDER TO MAINTAIN THE EFFECTIVENESS OF THE STORMWATER MANAGEMENT SYSTEM.

STRUCTURE TYPE	MAINTENANCE	INTERVAL
STORMWATER	STORMWATER	STORMWATER
STORMWATER	STORMWATER	STORMWATER
STORMWATER	STORMWATER	STORMWATER
STORMWATER	STORMWATER	STORMWATER
STORMWATER	STORMWATER	STORMWATER
STORMWATER	STORMWATER	STORMWATER
STORMWATER	STORMWATER	STORMWATER
STORMWATER	STORMWATER	STORMWATER
STORMWATER	STORMWATER	STORMWATER
STORMWATER	STORMWATER	STORMWATER

NOTE: THE DETENTION BASIN ON THIS PROJECT HAS BEEN DESIGNED AS A DETENTION BASIN AND SHALL BE OPERATED AS SUCH. THE DETENTION BASIN SHALL NOT BE CONSIDERED A STORMWATER COLLECTION FACILITY.

SEEDING OPERATION AND MAINTENANCE PLAN

1. **RESPONSIBLE PARTY**
THE RESPONSIBLE PARTY FOR THE SEEDING OPERATION SHALL BE THE RESPONSIBLE PARTY FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM. THE SEEDING OPERATION SHALL INCLUDE ALL OF THE SEEDING AS SHOWN ON THE SITE PLAN.

2. **SEEDING OPERATION**
THE SEEDING OPERATION SHALL BE FOLLOWED IN ORDER TO MAINTAIN THE SEEDING AREA.

3. **SEEDING MAINTENANCE**
THE FOLLOWING SEEDING SCHEDULE SHALL BE FOLLOWED IN ORDER TO MAINTAIN THE SEEDING AREA.

ACTIVITY	INTERVAL
SEEDING	SEEDING
SEEDING	SEEDING
SEEDING	SEEDING
SEEDING	SEEDING
SEEDING	SEEDING
SEEDING	SEEDING
SEEDING	SEEDING
SEEDING	SEEDING
SEEDING	SEEDING
SEEDING	SEEDING

NOTE: THE SEEDING OPERATION SHALL BE FOLLOWED IN ORDER TO MAINTAIN THE SEEDING AREA.

APPLICANT: OPT ENERGY SOLUTIONS, LLC
BENJAMIN COLE, MANAGER
300 EAST COUNTY ROAD
PULFORD, MASSACHUSETTS 01944

OWNER: THE LAFAN FAMILY REVOCABLE TRUST 2019
20 THOMPSON POND ROAD
SPENCER, MA 01062

REFERENCE: ATTACHED MAP 38, PARCEL 41.3
DEED BOOK 25062, PAGE 231
PLAN BOOK 880, PLAN 112

NO.	DATE	REVISIONS	BY
1	06/16/2019	PEER REVIEW COMMENTS	CHW
2	06/16/2019	PEER REVIEW COMMENTS	CHW



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CONSTRUCTION DETAILS

IN LEICESTER, MASSACHUSETTS

PREPARED FOR: PRO-TECH ENERGY SOLUTIONS
MICHAEL ALDRICH
315 EXECUTIVE DRIVE
WILMINGTON, MA 01897
TEL: (508) 457-4220

CALC: CHW/WH
CHKD: WH
SRV: WH
TAR: 7-8 DETAIL

DRWN: CHW/WH
APPR: WH
FID: WH
SHEET 8 OF 8

SCALE: N/A
DATE: JAN 14, 2019
JOB NO: 2570
PLAN NO: 12-03

