

SYNCARPHA SOLAR, LLC PROPOSED SOLAR ARRAY

LOCATED AT :
**MULBERRY STREET
LEICESTER, MASSACHUSETTS 01524**

RECORD OWNER (S):

MULBERRY STREET REALTY, LLC
350 LEICESTER STREET, AUBURN, MA 01501
DB 33207 PG 144
TAX MAP 14-A-4
DB 36507 PG 135
TAX MAP 14-A-4.2
TAX MAP 14-A-4.3

TAX MAP REFERENCES:

TOWN OF LEICESTER
TAX MAP 14-A-4
TAX MAP 14-A-4.2
TAX MAP 14-A-4.3

PLAN REFERENCES:

(WORCESTER COUNTY REGISTRY OF DEEDS)

PLAN BOOK 806 PLAN 70
PLAN BOOK 803 PLAN 95
PLAN BOOK 588 PLAN 122
PLAN BOOK 163 PLAN 46

TOWN OF LEICESTER ZONING

ZONE - SA
AREA - 80,000 S.F.
FRONTAGE - 200' (50' SOLAR)
FRONT - 40 FT. (100' SOLAR)
SIDE - 40 FT. (100' SOLAR)
REAR - 40 FT. (100' SOLAR)

DEVELOPER/APPLICANT

SYNCARPHA SOLAR, LLC
250 W 57TH STREET, SUITE 701
NEW YORK, NY 10107
(212) 419-4840
SYNCARPHA.COM

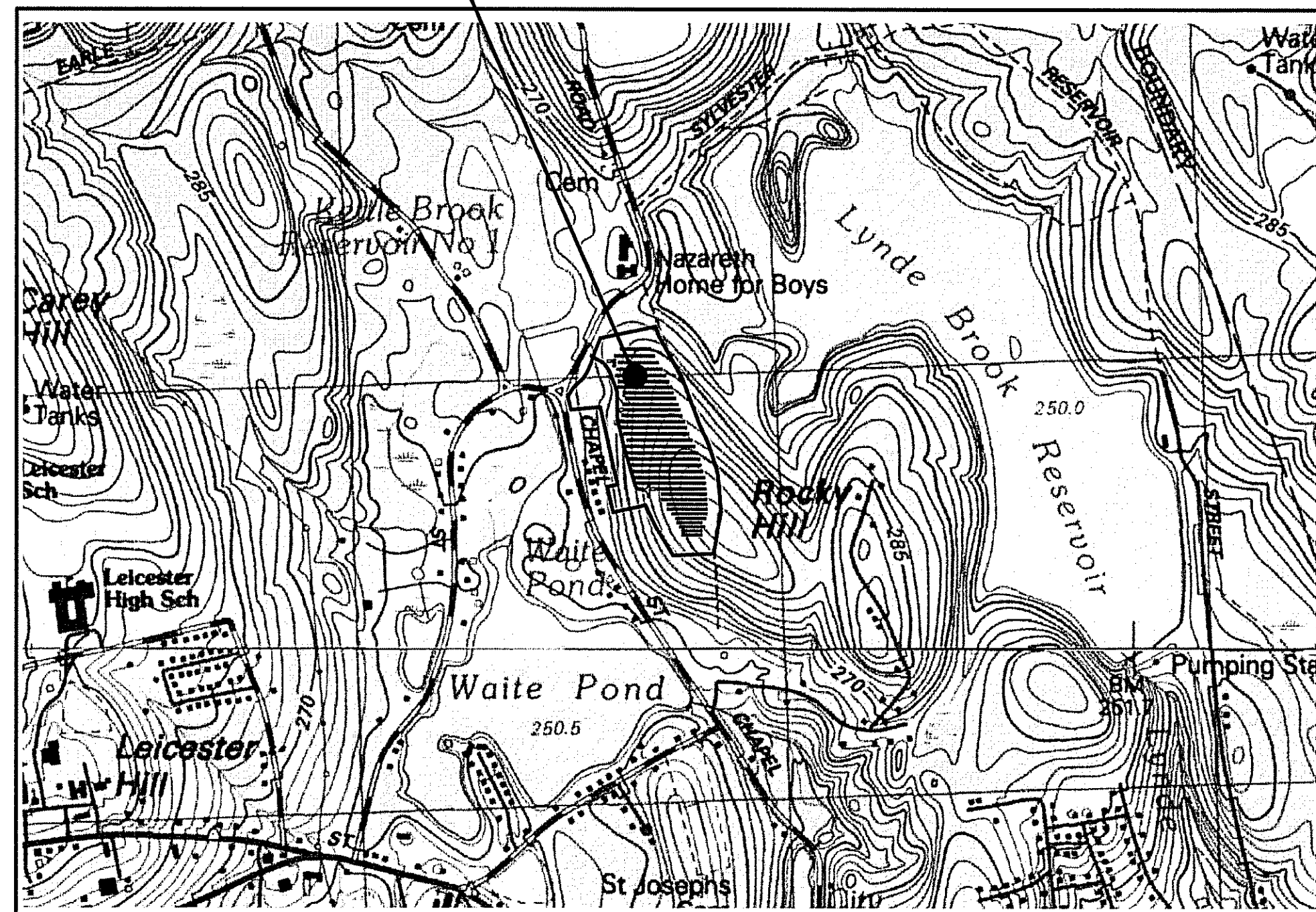
PERMITS

SPECIAL PERMIT - PLANNING BOARD
NOTICE OF INTENT - CONSERVATION COMMISSION

EXISTING CONDITIONS

FOR PROPERTY INFO SEE EXISTING CONDITIONS (SHEET C-2)

SITE



USGS IMAGE OBTAINED FROM MASS GIS

SITE LOCUS

SCALE: 1"=1000'

DRAWING LIST

SYM	NAME
C-1	COVER SHEET
C-2	EXISTING CONDITIONS PLAN
C-3	OVERALL SITE PLAN
C-(4,5)	PROPOSED SITE PLANS
C-6	EROSION & SEDIMENT CONTROL PLAN
C-(7,8)	DETAIL SHEETS

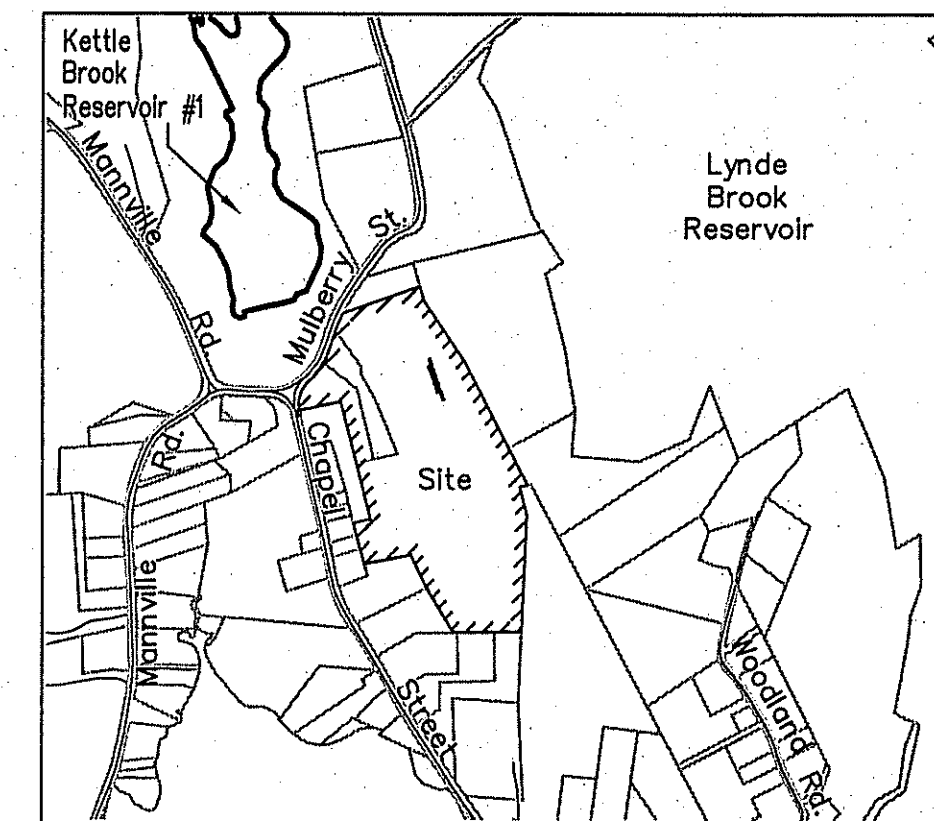
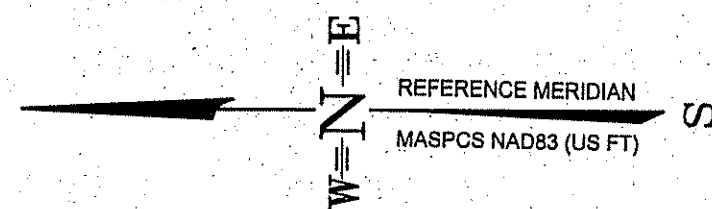
SYMBOL KEY

MONUMENT	■	BITUMINOUS	BIT.
IRON PIPE	●	CONCRETE	CONC.
DRAIN MANHOLE	●DMH	INVERT	INV.
ELECTRIC MANHOLE	●	REINFORCED CONCRETE PIPE	RCP
CATCH BASIN	■CB	POLYVINYL CHLORIDE PIPE	PVC
UTILITY POLE	□	HIGH DENSITY PLASTIC	HDPE
GUY WIRE	○	IRON PIPE	I.P.
BENCH MARK	○	FOUND	FND.
CHAIN LINK FENCE	—x—	BOLLARD	BOL.
WOOD / STOCKADE FENCE	—□—	SEWER MANHOLE	SMH
DRAIN LINE	—D—	DRAINAGE MANHOLE	DMH
OVERHEAD WIRES	—OHV—	WATER GATE	WG
CONTOUR 5' INTERVAL	—	HYDRANT	HYD.
CONTOUR 1' INTERVAL	—	UTILITY POLE	UP
X 69.33'		GUY WIRE	GUY
	SPOT GRADE		

TOWN OF LEICESTER PLANNING BOARD

DATE: _____

NORTH		STAMP		DRAWN BY: PE		CHECKED BY: FB		CLIENT: SYNCARPHA SOLAR, LLC 250 W 57TH STREET, SUITE 701 NEW YORK, NY 10107	
				CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 40595 CT. LIC. NO.: 12560 RI. LIC. NO.: 6694 NH. LIC. NO.: 9368		FRANK W. BICCHIERI, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 47597		COVER SHEET SITE ADDRESS: MULBERRY STREET LEICESTER, MA 01524	
				BRUCE A. FITZBACK, P.L.S. PROFESSIONAL LAND SURVEYOR MA. LIC. NO.: 37731 CT. LIC. NO.: 16970		PETER C. ENGLE, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 53736		 B BERTIN ENGINEERING 39 ELM STREET SOUTHBRIDGE, MA 01550 P 508.765.0195 F 508.765.0193 www.bertinengineering.com	
NO.		DATE		REVISION		BY		DATE	
2		8.23.18		REVISED PER PB COMMENTS		PE		7.11.18	
1		8.21.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
2		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		2	
3		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
4		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
5		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
6		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
7		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
8		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
9		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
10		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
11		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
12		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
13		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
14		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
15		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
16		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
17		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
18		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
19		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
20		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
21		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
22		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
23		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
24		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
25		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
26		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
27		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
28		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
29		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
30		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
31		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
32		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
33		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
34		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
35		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
36		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
37		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
38		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
39		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
40		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
41		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
42		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
43		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
44		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
45		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
46		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
47		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
48		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
49		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
50		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
51		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
52		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
53		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
54		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
55		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
56		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
57		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
58		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
59		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
60		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
61		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
62		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
63		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
64		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
65		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
66		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
67		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
68		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
69		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
70		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
71		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
72		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
73		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
74		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
75		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
76		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
77		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
78		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
79		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
80		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
81		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
82		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
83		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
84		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
85		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
86		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
87		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
88		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
89		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
90		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
91		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
92		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
93		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
94		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
95		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
96		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
97		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
98		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
99		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
100		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
101		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
102		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
103		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
104		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
105		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
106		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
107		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
108		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
109		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
110		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
111		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
112		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
113		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
114		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
115		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
116		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
117		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
118		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
119		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
120		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
121		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
122		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
123		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
124		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
125		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
126		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
127		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
128		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
129		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
130		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
131		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
132		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
133		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
134		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
135		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
136		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
137		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
138		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
139		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE		18-120	
140		8.23.18		REVISED PER PEER REVIEW COMMENTS		PE			



LOT LOCUS:

SCALE: 1"=1000'

TAX MAP REFERENCES:

LEICESTER ASSESSORS
TAX MAP 14-A-4 (Lot 9)
TAX MAP 14-A-4.2 (Lot 1)
TAX MAP 14-A-4.3 (Lot 2)
TAX MAP 14-A-4.5 (Lot 3)

RECORD OWNER:

MULBERRY STREET REALTY, LLC
350 LEICESTER STREET, AUBURN, MA 01501
DB. 33207 PG. 144 (Lot 9)
ASSESSORS REF: 14-A-4

DB. 56421 PG. 348 (Lot 1, Lot 2, and Lot 3)
ASSESSORS REF: 14-A-4.2, 14-A-4.3, 14-A-4.5

PLAN REFERENCES:

(WORCESTER COUNTY REGISTRY OF DEEDS)

PLAN BOOK 806 PLAN 70

TOWN OF LEICESTER ZONING

ZONE - SA
AREA - 80,000 S.F.
FRONTAGE - 200 FT.
FRONT - 40 FT.
SIDE - 40 FT.
REAR - 40 FT.

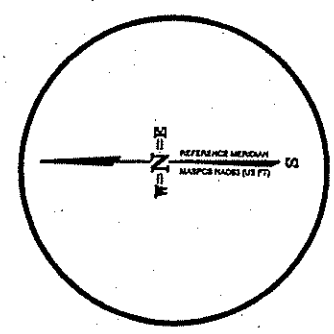
GENERAL NOTES:

- BOUNDARIES SHOWN ARE THE RESULTS OF AN ACTUAL FIELD SURVEY BASED ON AVAILABLE MAPS, DEEDS OF RECORD AND PHYSICAL EVIDENCE, BUT ARE SUBJECT TO ALL EASEMENTS, RIGHT OF WAY AGREEMENTS, AND RIGHTS AND ENCUMBRANCES OF RECORD THAT AN ACCURATE AND THOROUGH TITLE SEARCH MAY DISCLOSE.
- HORIZONTAL DATUM BASED ON NAD 83 MA11, VIA GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS). THE GEOGRAPHIC AND STATE PLANE COORDINATES CONTAINED HEREON WERE THE RESULTS OF A SURVEY USING R.T.K. DUAL FREQUENCY G.P.S./GNSS RECEIVERS AND HAVING A POSITIONAL TOLERANCE LESS THAN 2 CM AT THE 95% CONFIDENCE LEVEL. REFERENCE MONUMENTS PROVIDED BY MULTIPLE KEYNET VIRTUAL BASE STATION OBSERVED IN MARCH, 2015.
- VERTICAL DATUM BASED ON NAVD 88, GEOID 12A, ESTABLISHED VIA GPS
- BY GEOGRAPHICAL PLOTTING ONLY THE SITE IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE AS PER THE FLOOD INSURANCE RATE MAP, COMMUNITY-PANEL NO. # 25027C0595E WITH AN EFFECTIVE DATE OF JULY 4, 2011.
- ABUTTERS NAMES ARE IN RESPECT TO THE LATEST ASSESSORS RECORDS AVAILABLE.
- ALL WETLANDS ON SITE WERE DELINEATED BY ECOTEC INC. ON JUNE 15, 2018 AND SURVEY LOCATED BY BERTIN ENGINEERING.
- TOPOGRAPHY AND TOPOGRAPHIC FEATURES PROVIDED VIA ELECTRONIC CAD FILE FROM EASTERN TOPOGRAPHICS WOLFBO, MASSACHUSETTS. PHOTOGRAPHY WAS COLLECTED FROM AERIAL PHOTOGRAPHY AS REFERENCED ABOVE - USING DIGITAL TERRAIN MODELING (DTM) METHODS WITH KLT ATLAS SOFTWARE. ANY USER SHOULD DETERMINE THE SUITABILITY OF THIS AERIAL MAPPING FOR HIS INTENDED USE AND ASSUME ALL RISK AND LIABILITY IN CONNECTION THEREWITH. NOTE: BUILDING CORNERS AS SHOWN REPRESENT ROOF LINES AS COLLECTED FROM AERIAL PHOTOGRAPHY.

SYMBOL KEY

BOUND	WATER GATE	CHAIN LINK FENCE	CONCRETE	CONC.
IRON PIPE / REBAR	GAS GATE	WOOD / STOCKADE FENCE	INVERT	INV.
SURVEY MARKER TO BE SET	BOLLARD	WATER LINE	REINFORCED CONCRETE PIPE	RCP
DRAIN MANHOLE	LIGHT DECORATIVE (15'± HEIGHT)	SEWER LINE	POLYVINYL CHLORIDE PIPE	PVC
SEWER MANHOLE	BENCH MARK	DRAIN LINE	HIGH DENSITY PLASTIC	HDPE
SEWER CLEANOUT	SIGN	GAS LINE	IRON PIPE	I.P.
ELECTRIC MANHOLE	MASSHIGHWAY SIGNAL BOX	ELECTRIC LINE	FOUND	FND.
CATCH BASIN	MONITOR WELL	OVERHEAD WIRES	BOLLARD	BOL.
UTILITY POLE		CONTOUR 5' INTERVAL	SEWER MANHOLE	SMH
UTILITY POLE W/ STREET LIGHT		CONTOUR 1' INTERVAL	DRAINAGE MANHOLE	DMH
GUY WIRE		X 69.33'	WATER GATE	WG
FIRE HYDRANT		BITUMINOUS	HYDRANT	HYD.
			UTILITY POLE	UP
			GUY WIRE	GUY

NORTH



GRAPHIC SCALE

80 0 40 80 160 320

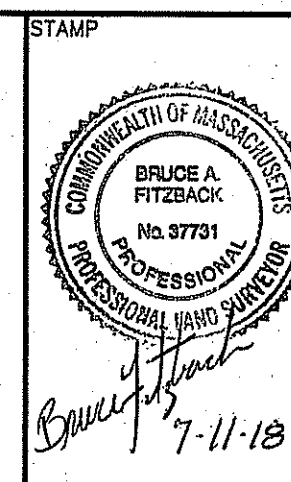
(IN FEET)

1" = 80'

NO. DATE

REVISION

BY



DRAWN BY:

AB

CALISTO J. BERTIN, P.E.

PROFESSIONAL ENGINEER

MA. LIC. NO.: 40595

CT. LIC. NO.: 12950

RI. LIC. NO.: 6694

NH. LIC. NO.: 9368

BRUCE A. FITZBACK, P.L.S.

PROFESSIONAL LAND SURVEYOR

MA. LIC. NO.: 37731

CT. LIC. NO.: 16970

CHECKED BY:

BF

FRANK W. BICCHIERI, P.E.

PROFESSIONAL ENGINEER

MA. LIC. NO.: 47597

PETER C. ENGLE, P.E.

PROFESSIONAL ENGINEER

MA. LIC. NO.: 53736

CLIENT: SYNCARPHA SOLAR, LLC
250 W 57TH STREET, SUITE 701
NEW YORK, NY 10107

EXISTING CONDITIONS

SITE ADDRESS:
MULBERRY STREET
LEICESTER, MA 01524



39 ELM STREET
SOUTHBRIDGE, MA 01550
P 508.765.0199
F 508.765.0192
www.bertinengineering.com

DATE: 7.11.18

SCALE: 1"=80'

REV # N/A

PROJECT # 18-120

DWG. NO.: C-2

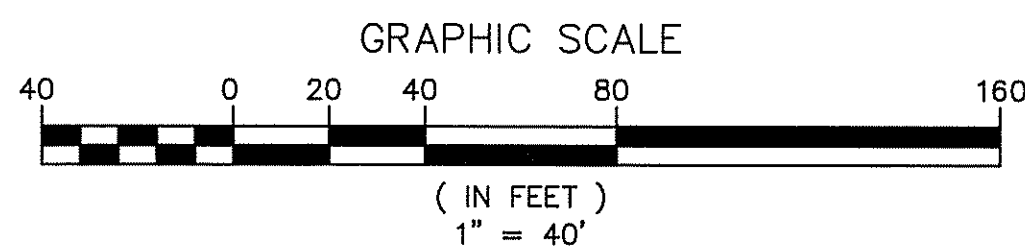
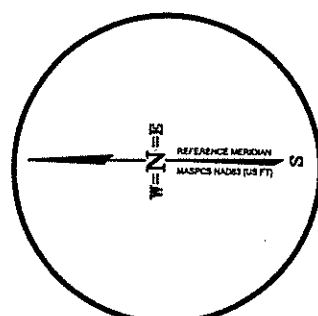
ORIGINAL



SYMBOL KEY

- Ⓐ PROPOSED EQUIPMENT PAD W/ 1000KVA XFMR TRANSFORMER, W/ ADJUSTABLE SENSITIVITY MOTION SENSOR FULL CUT-OFF FIXTURE LIGHTING.
- Ⓑ PROPOSED EQUIPMENT PAD W/ 600KVA XFMR TRANSFORMER, W/ ADJUSTABLE SENSITIVITY MOTION SENSOR FULL CUT-OFF FIXTURE LIGHTING.
- Ⓒ ENERGY STORAGE BATTERY CONTAINERS AND INVERTERS.
- Ⓓ 20' DOUBLE SWING CHAIN LINK VEHICLE GATE W/KNOX LOCK AND SIGNAGE WITH EMERGENCY CONTACT INFORMATION (TYP.).
- Ⓔ PROPOSED CUSTOMER OWNED RISER AND RECLOSER POLE.
- Ⓕ PROPOSED CUSTOMER OWNED LOAD BREAK POLE ACCESSIBLE TO NATIONAL GRID 24/7.
- Ⓖ PROPOSED NATIONAL GRID BI-DIRECTIONAL METER POLE
- Ⓗ PROPOSED NATIONAL GRID RECLOSER POLE
- Ⓘ PROPOSED NATIONAL GRID LOAD BREAK POLE.
- Ⓚ PROPOSED POINT OF INTERCONNECTION ON MULBERRY STREET.
- Ⓛ PROPOSED UNDERGROUND WIRING WITHIN SOLAR ARRAY.
- Ⓜ PROPOSED OVERHEAD WIRING FROM RISER POLE TO POINT OF INTERCONNECTION..

NORTH

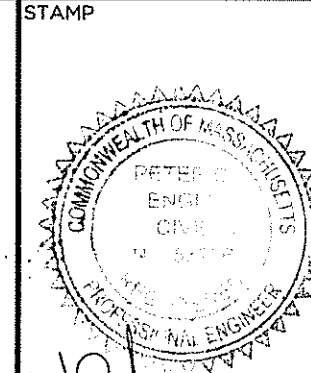


NOTES:

- EXISTING FEATURES ARE SHOWN IN HALF TONE PROPOSED FEATURES ARE SHOWN IN FULL TONE
- LOCATION OF ALL UNDERGROUND UTILITIES IS APPROXIMATE AND SHOULD BE VERIFIED BEFORE EXCAVATION OR CONSTRUCTION BEGINS. CALL DIG SAFE (1-888-DIGSAFE)
- UNLESS OTHERWISE NOTED, MAINTAIN EXISTING GRADES AND SLOPES.
- ALL UTILITY CONNECTIONS ARE TO BE IN ACCORDANCE WITH LOCAL CODE.
- THE SITE PLAN(S) SUPERSEDES ALL STANDARD DRAWINGS.

TOWN OF LEICESTER PLANNING BOARD

DATE:



DRAWN BY: PE CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 40595 CT. LIC. NO.: 12950 RI. LIC. NO.: 6694 NH. LIC. NO.: 9368	CHECKED BY: FB FRANK W. BICCHIERI, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 47597	CLIENT: SYNCARPHA SOLAR, LLC 250 W 57TH STREET, SUITE 701 NEW YORK, NY 10107
SITE PLAN (2/2) SITE ADDRESS: MULBERRY STREET LEICESTER, MA 01524		
BRUCE A. FITZBACK, P.L.S. PROFESSIONAL LAND SURVEYOR MA. LIC. NO.: 37731 CT. LIC. NO.: 16970	PETER C. ENGLE, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 53736	39 ELM STREET SOUTHBRIDGE, MA 01550 P 508.765.0195 F 508.765.0193 www.bertinengineering.com
NO. DATE	REVISION	BY
2 8.23.18	REVISED PER PB COMMENTS	PE
1 8.21.18	REVISED PER PEER REVIEW COMMENTS	PE
DATE	REVISION	BY

DATE: 7.11.18 SCALE: 1"=40' REV #: 2 PROJECT #: 18-120 DWG. NO.: C-5

ORIGINAL
8-23-18

6" SOLID PVC PIPE TO
RIP RAP PROTECTION.
VERTICAL STANDPIPE TO
BE REMOVED ONCE
CONSTRUCTION IS
COMPLETE

[illegible]

NOTES:

1. ONCE CONSTRUCTION IS COMPLETED, ALL DISTURBED AREAS ARE TO BE STABILIZED WITH LOAM AND SEED UNLESS OTHERWISE SPECIFIED.
2. INSPECTIONS WILL BE CONDUCTED WEEKLY AND AFTER 0.5 INCH RAIN EVENTS. COPIES OF WEEKLY REPORTS AND RAIN EVENT REPORTS SHALL BE SUBMITTED TO THE CONSERVATION COMMISSION WITHIN SEVEN DAYS OF THE INSPECTION.
3. EXTRA EROSION CONTROL MATERIALS (HAYBALES, SILT FENCE) EQUAL TO 100 LF SHALL BE KEPT ON SITE FOR EMERGENCY REPAIRS. THESE MATERIALS SHALL BE KEPT COVERED.

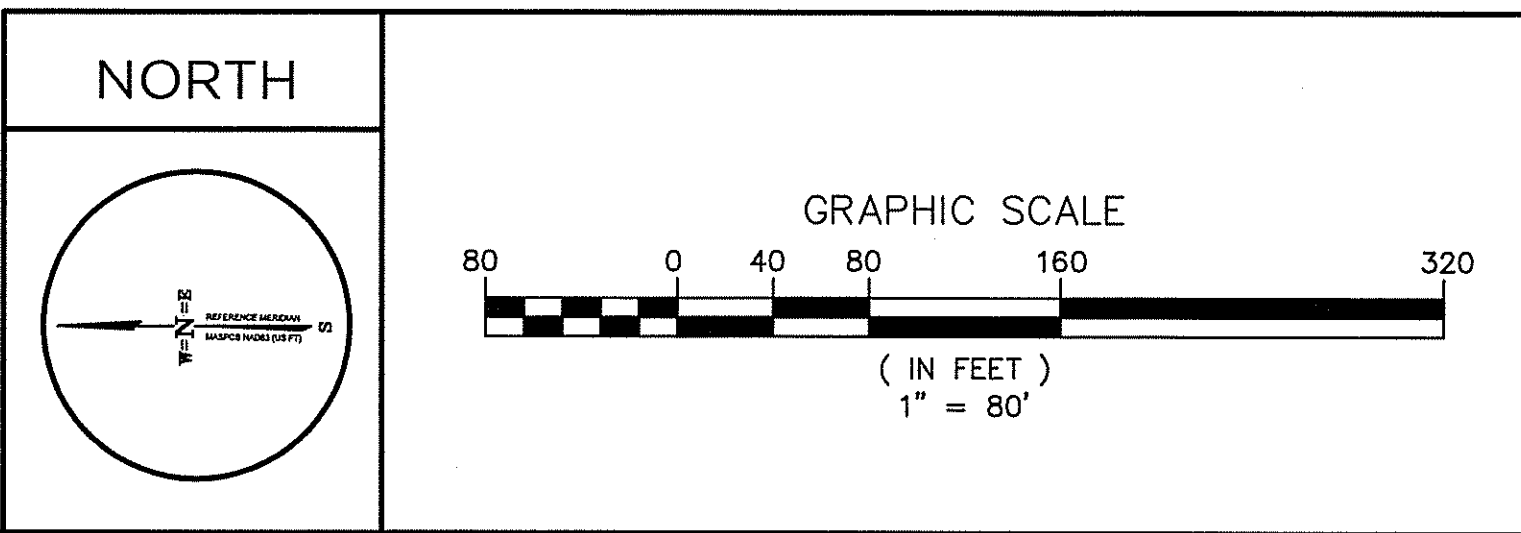
1. A PRE-CONSTRUCTION MEETING SHOULD BE SCHEDULED BETWEEN BERTIN ENGINEERING AND CONSTRUCTION MANAGER. ALL ASPECTS OF EROSION CONTROLS AND CONSTRUCTION OF PROJECT ARE TO BE DISCUSSED
2. WATTLES AND SILTATION FENCE TO BE INSTALLED. INSTALL STABILIZED CONSTRUCTION ENTRANCE (SITE TRACKING PAD)
3. INSPECTIONS WILL BE CONDUCTED WEEKLY AND AFTER 0.5 INCH RAIN EVENTS. COPIES OF WEEKLY REPORTS AND RAIN EVENT REPORTS SHALL BE SUBMITTED TO THE CONSERVATION COMMISSION WITHIN SEVEN DAYS OF THE INSPECTION.

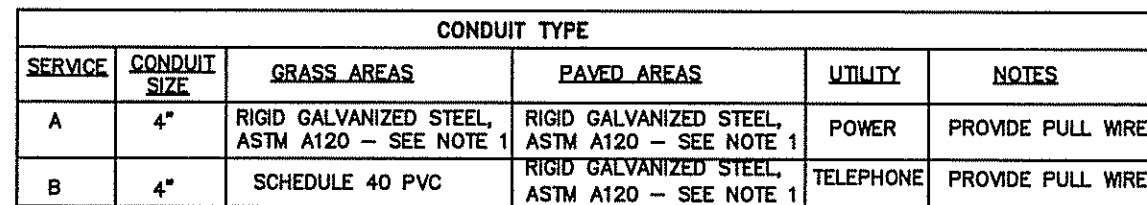
ACREAGE SUMMARY IN ACRES	
SEEDED AREA	17.8 AC±
TOTAL DISTURBED	20.2 AC±

LEGEND

(SA)	SOIL MATERIAL STOCKPILE AREA
(PA)	TEMPORARY PARKING AREA
(PS)	PERMANENT SEEDING/STABILIZATION
(CD)	ROCK CHECK DAM
(TPS)	TEMPORARY PARKING AND STORAGE
(TD)	TEMPORARY DIVERSION DITCH
(DD)	TEMPORARY DIVERSION DIKE
(ST)	TEMPORARY SEDIMENT TRAP
(SB)	TEMPORARY SEDIMENT BASIN
— x — x —	FENCE
— x — x — x — x —	SILT FENCE AND STRAW WATTLES
— v —	DIRECTION OF OVERLAND FLOW W/ GRAD
[Pattern of circles]	TEMPORARY STONE CONSTRUCTION EXT
[Pattern of dots]	INLET PROTECTION
←	DRAINAGE FLOW DIRECTION
[Pattern of squares]	EROSION CONTROL BLANKET

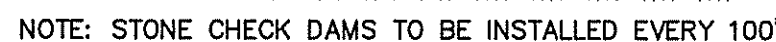
TOWN OF LEICESTER PLANNING BOARD
DATE:

[illegible]

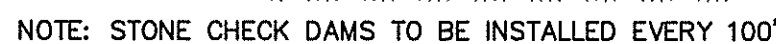


UTILITY TRENCH DETAIL

SUBJECT TO FINAL ELECTRICAL DESIGN



CAL GRASSED SWALE/ SWALE 1 DETAIL



SYSTEMS MODEL SC25
OR APPROVED EQUAL



NOTE:
75% OF RIP-RAP STONE SHALL BE 70 TO 100 LBS. AND SHALL BE HAND CHINKED TO LEAVE A SMOOTH SURFACE ALONG THE TOP OF THE DIKE AND A ROUGH SURFACE ALONG DOWNSTREAM SURFACE AND TOE OF THE DIKE.

EMERGENCY SPILLWAY SECTION

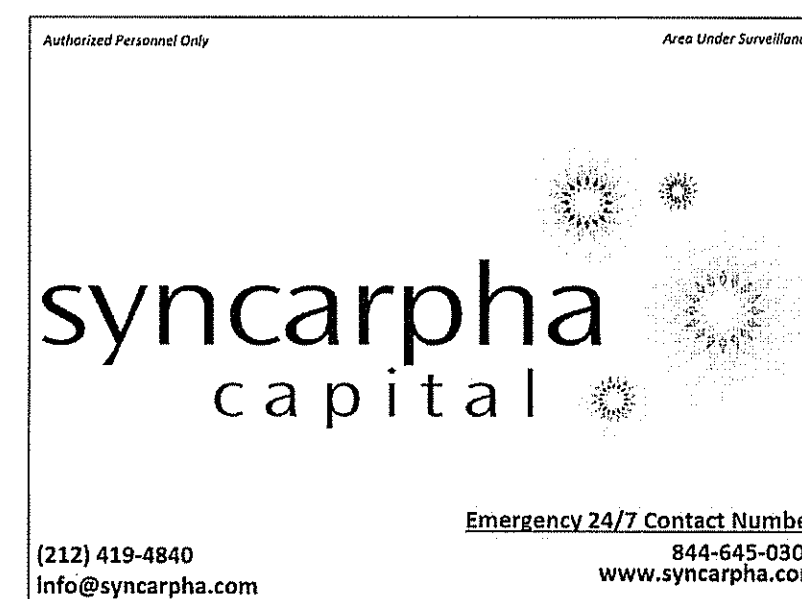
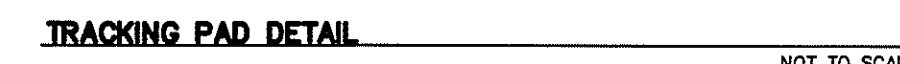


1. PIPES PENETRATING THE LOW PERMEABILITY CORE SHALL BE BEDDED IN THE LOW PERMEABILITY CORE MATERIAL.
2. THE BERM SECTION MAY BE SUBJECT TO CHANGE AND ANY CHANGES WILL BE BASED ON THE RESULTS OF FURTHER GEOTECHNICAL INVESTIGATIONS.
- PROCTOR DENSITY. CONSTRUCT AN IMPERVIOUS CORE (8" MIN. WIDTH CORE AT TOP); THE CORE SHALL BE KEVED 2 TO NATIVE SOILS AND CONSTRUCTED WITH 1:1 SIDE SLOPES. CONSTRUCT THE CORE WITH SOIL CONTAINING BETWEEN 10-20% CLAY/SILT (FINER THAN #200 SIEVE) AS DETERMINED BY LABORATORY TESTING.

DETENTION BASIN BERM SECTION



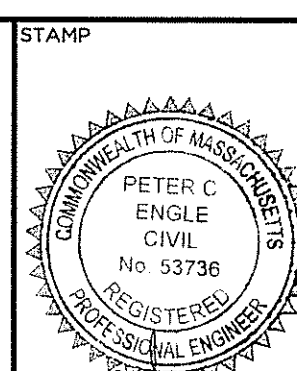
THE TOWN ROAD WILL BE SWEEPED DAILY
WHEN HAULING IS IN PROGRESS.
CRUSHED STONE SHALL BE REPLACED WHEN
DEPOSITED SOILS ACCUMULATE TO THE EXTENT
THAT THEY LESSEN THE EFFECTIVENESS OF THE MAT




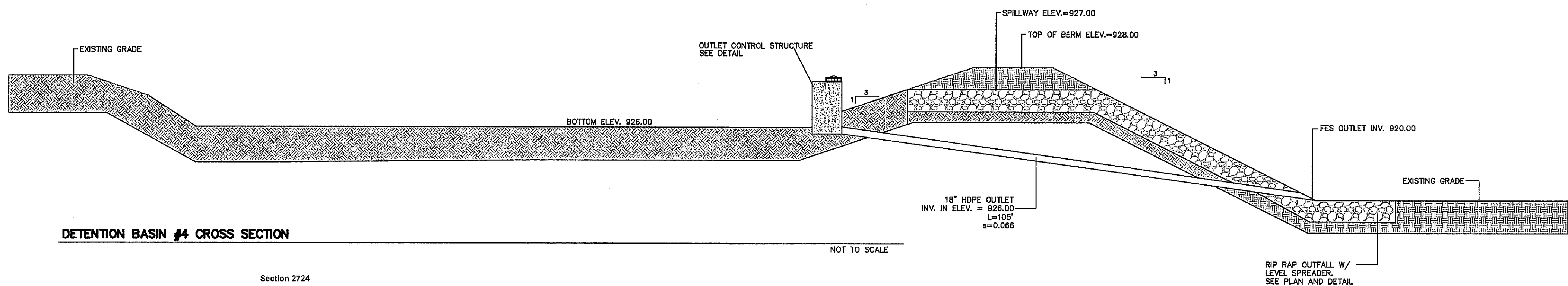
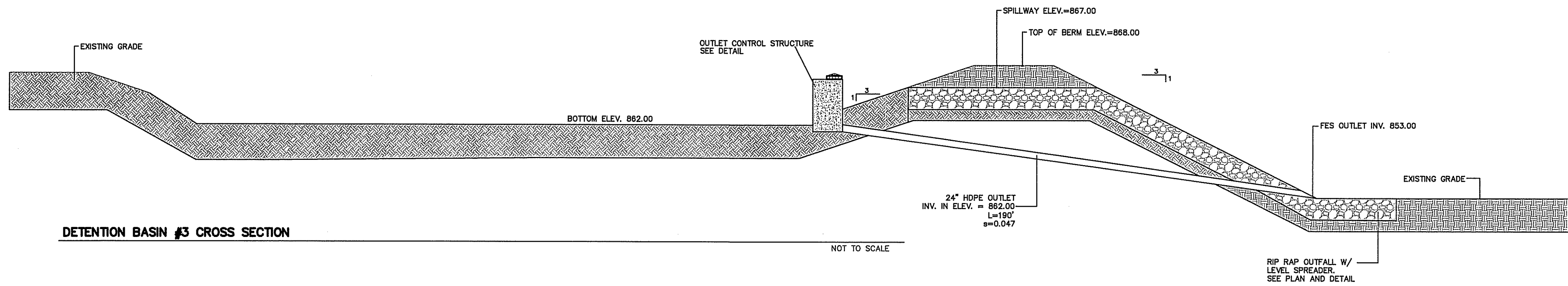
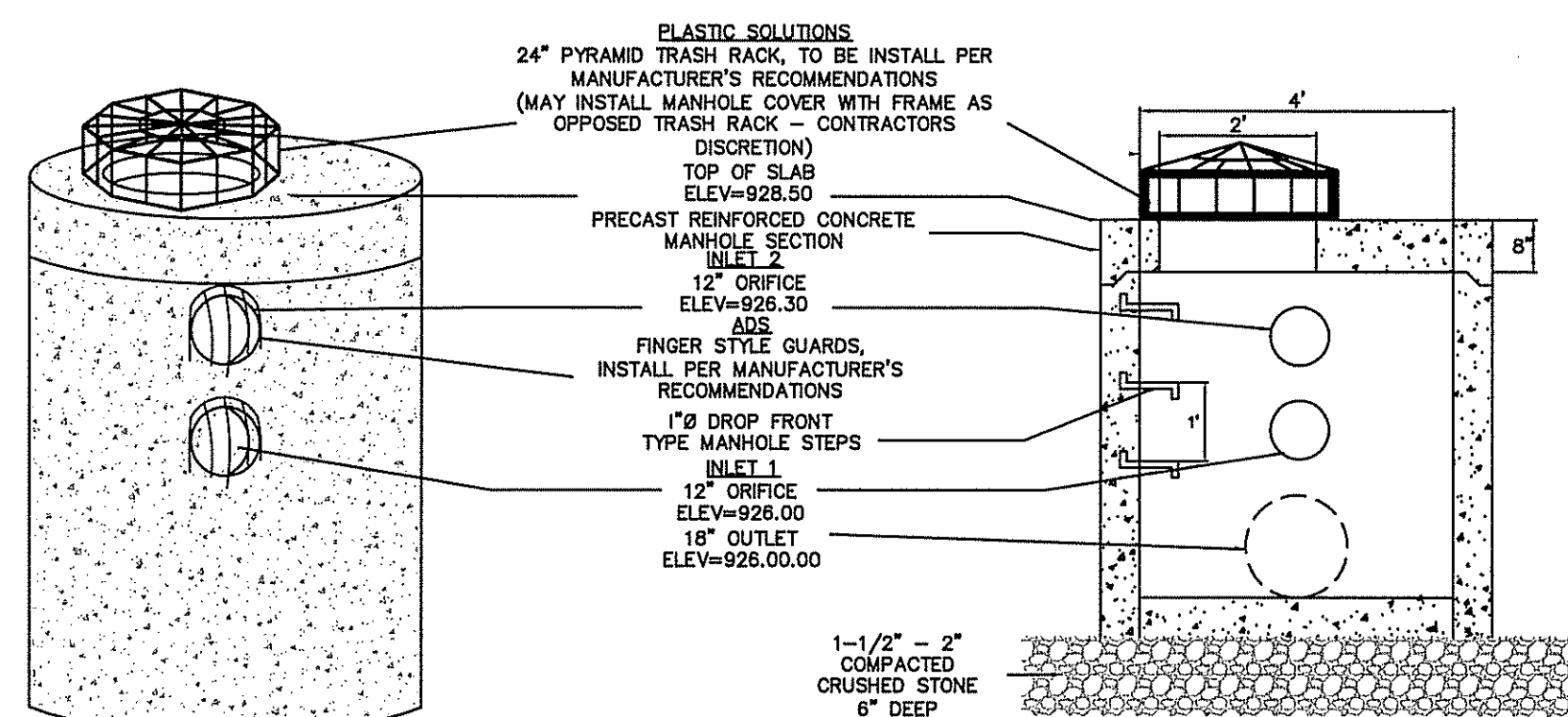
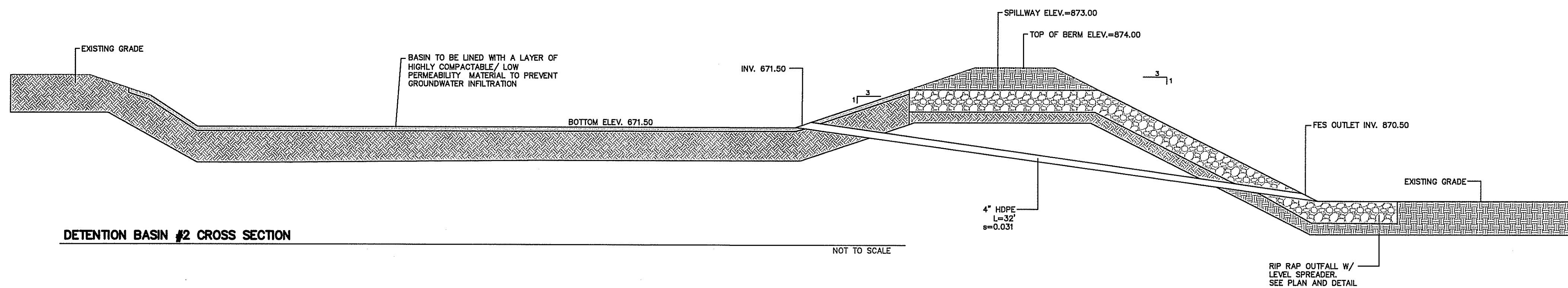
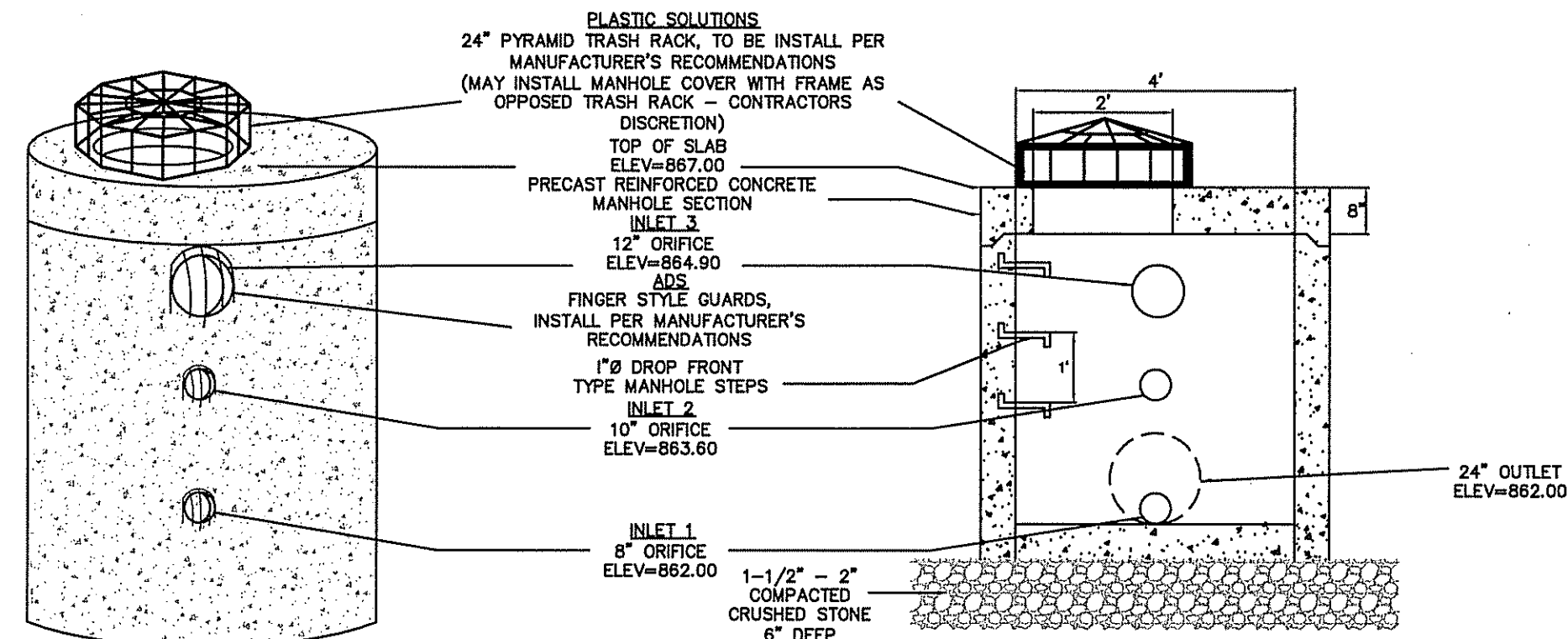
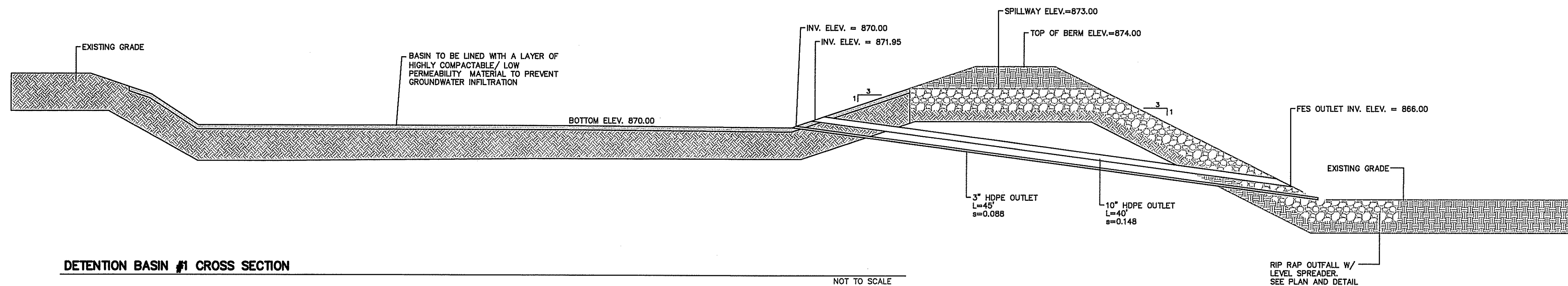
SITE SIGN DETAIL



2	8.23.18	REVISED PER PB COMMENTS		PE
1	8.21.18	REVISED PER PEER REVIEW COMMENTS		PE
NO.	DATE	REVISION		BY



DRAWN BY:	PE	CHECKED BY:	FB	CLIENT: SYNCARPHA SOLAR, LLC 250 W 57TH STREET, SUITE 701 NEW YORK, NY 10107					
	CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 40595 CT. LIC. NO.: 12950 RI. LIC. NO.: 6684 NH. LIC. NO.: 3368		FRANK W. BICCHIERI, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 47597						
DETAILS SHEET (1/2)				39 ELM STREET SOUTHBRIDGE, MA 01550 P 508.765.0195 F 508.765.0193 www.bertinenengineering.com					
 BERTIN ENGINEERING									
DATE:	7.11.18	SCALE:	AS NOTED	REV #:	2	PROJECT #:	18-120	DWG. NO.:	C-7
	BRUCE A. FITZBACK P.L.S. PROFESSIONAL LAND SURVEYOR MA. LIC. NO.: 37731 PETER C. ENGLE, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 53736								



GENERAL
PVC surface drainage inlets shall be of the road and highway structure type as indicated on the contract drawings and referenced within the contract specifications. The ductile iron frame and grate for each of these structures is to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The road and highway structure shall be as manufactured by Nylotplast a division of Advanced Drainage Systems, Inc. or prior approved equal.

MATERIALS
The road and highway structure required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F447. The pipe full spigot shall be joined to the main body of the structure. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

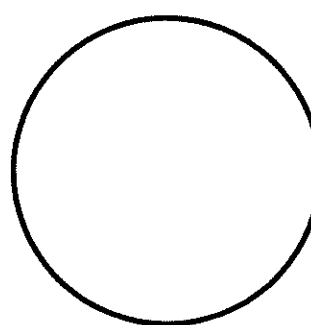
The grate and frame for all road and highway structures shall be ductile iron and shall be made specifically for each so as to provide a round bottom flange that closely matches the diameter of the PVC basin body. The grate and frame shall be capable of supporting H-20 wheel loading for traffic areas. The metal used in the manufacture of the castings shall conform to ASTM A536 grade 12-50-50 for ductile iron.

INSTALLATION
The specified PVC road and highway structure shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for the road and highway structure shall be placed and compacted uniformly in accordance with ASTM D2321. The road and highway structure body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

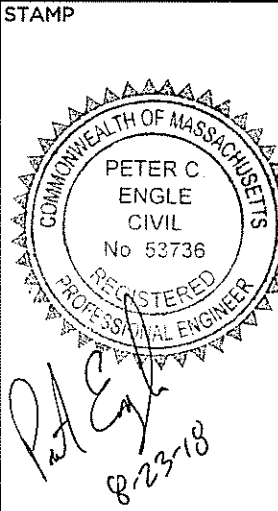
TOWN OF LEICESTER PLANNING BOARD

DATE: _____

NORTH



NO.	DATE	REVISION	BY
2	8.23.18	REVISED PER PB COMMENTS	PE
1	8.21.18	REVISED PER PEER REVIEW COMMENTS	PE



DRAWN BY: PE	CHECKED BY: FB	CLIENT: SYNCARPHA SOLAR, LLC 250 W 57TH STREET, SUITE 701 NEW YORK, NY 10107
CALISTO J. BERTIN, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 40595 CT. LIC. NO.: 12950 RI. LIC. NO.: 6694 NH. LIC. NO.: 9368	FRANK W. BICCHIERI, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 47597	DETAILS SHEET (2/2) SITE ADDRESS: MULBERRY STREET LEICESTER, MA 01524
BRUCE A. FITZBACK, P.L.S. PROFESSIONAL LAND SURVEYOR MA. LIC. NO.: 37731 CT. LIC. NO.: 15970	PETER C. ENGLE, P.E. PROFESSIONAL ENGINEER MA. LIC. NO.: 53736	39 ELM STREET SOUTHBRIDGE, MA 01550 P 508.765.0195 F 508.765.0193 www.bertinengineering.com
DATE: 7.11.18	SCALE: AS NOTED	REV #: 2
PROJECT #: 18-120	DWG. NO.: C-8	