MAJOR SITE PLAN
SOLAR CARPORTS FOR
CHILTON MEDICAL CENTER
BLOCK 2401, LOTS 15 & 16; BLOCK 2402, LOTS 1-4
TOWNSHIP OF PEQUANNOCK,
MORRIS COUNTY, NEW JERSEY

PROPERTY OWNERS WITHIN 200'

PER PEQUANNOCK TOWNSHIP TAX ASSESSOR,
CERTIFIED LIST RECEIVED 12/08/2020

BLOCK	LOT	QUAL	CLA	PROPERTY OWNER	PROPERTY LOCATION	Add'l Lots
1602	15		15C	PEQUANNOCK TOWNSHIP 530 TURNPIKE POMPTON PLAINS NJ 07444	SUNSET RD	
1602	16.01		2	VAN WINGERDEN, ALAN R & ANITA M. 200 FARM RD PEQUANNOCK TOWNSHIP, NJ 07444	200 FARM RD	
1602	16.02		3A	VAN WINGERDEN, ALAN R.; & ANITA M 201 FARM RD POMPTON PLAINS, NJ 07444	201 FARM RD	
1602	16.02	QFARM	3B	VAN WINGERDEN, ALAN R & ANITA M. 201 FARM RD POMPTON PLAINS NJ 07444	201 FARM RD	
2402	1		15D	AHS HOSP CORP C/O ANNA DUNITZ 475 SOUTH ST - 2ND FLR MORRISTOWN, NJ 07962	97 WEST PARKWAY	
2402	1	T01	4A	AHS HOSP CORP C/O ANNA DUNITZ 475 SOUTH ST, - 2ND FLR MORRISTOWN, NJ 07962	97 WEST PARKWAY	
2402	2		4A	WEST PARKWAY AMBULATORY SURGERY CTR 97 W PARKWAY - 1ST FLOOR POMPTON PLAINS, NJ 07444	97 WEST PARKWAY	
2402	2	BLDG	4A	AHS HOSP CORP C/O ANNA DUNITZ 475 SOUTH ST - 2ND FLR MORRISTOWN, NJ 07962	95 WEST PARKWAY	
2402	2	C2	4A	AHS HOSP CORP C/O ANNA DUNITZ 475 SOUTH ST - 2ND FLR MORRISTOWN, NJ 07962	97 WEST PARKWAY	
2402	2	X	15D	AHS HOSP CORP C/O ANNA DUNITZ 475 SOUTH ST - 2ND FLR MORRISTOWN, NJ 07962	95 WEST PARKWAY	
2402	3		1	AHS HOSP CORP C/O ANNA DUNITZ 475 SOUTH ST 2ND FLR MORRISTOWN, NJ 07962	91 WEST PARKWAY	
2402	4		1	AHS HOSP CORP C/O ANNA DUNITZ 475 SOUTH ST - 2ND FLR MORRISTOWN, NJ 07962	89 WEST PARKWAY	
2402	5		2	CARUCCI, STEPHEN/MELISSA. 2 LUCY CT POMPTON PLAINS, NJ 07444	2 LUCY CT	
2402	6		2	NOCHENSON, ROBERT & SHEILA 4 LUCY CT POMPTON PLAINS NJ 07444	4 LUCY CT	
2402	7		2	KARCZ, TADEUSZ & MARIA 6 LUCY CT POMPTON PLAINS NJ 07444	6 LUCY CT	
2402	11		1	VAN VOST, JOHN 130 JACKSONVILLE RD POMPTON PLAINS N J 07444	7 LUCY CT	
2402	12	QFARM	3B	VANVOGT, JOHANNES(CONN.)/DEBORAH E 130 JACKSONVILLE RD POMPTON PLAINS NJ 07444	240 FARM RD	B 2402/LOT 13
2402	13		3A	VAN VOST, JOHANNES & JANNIE 140 JACKSONVILLE RD POMPTON PLAINS NJ 07444	240 FARM RD	12
2402	13	QFARM	3B	VAN VOST, JOHANNES & JANNIE 140 JACKSONVILLE RD POMPTON PLAINS NJ 07444	240 FARM RD	
2401	1		2	BALAKRISHNAN-MOHTY/M.(INDIA) 14 WHIPPLE RD POMPTON PLAINS NJ 07444	14 WHIPPLE RD	
2401	2		2	BUSHOVEN, GLENN 16 WHIPPLE RD POMPTON PLAINS NJ 07444	16 WHIPPLE RD	
2401	3		2	DORIERO, MICHAEL & MARY LOU 18 WHIPPLE RD POMPTON PLAINS NJ 07444	18 WHIPPLE RD	
2401	4		15C	PEQUANNOCK TOWNSHIP 530 TURNPIKE POMPTON PLAINS NJ 07444	WHIPPLE RD	
2401	5		2	DE ANGELIS, GIOVANNI & ANTONIETTA 17 WHIPPLE RD POMPTON PLAINS NJ 07444	17 WHIPPLE RD	
2401	6		2	MUSCIA, ROCCO L JR & ANNE 15 WHIPPLE RD POMPTON PLAINS NJ 07444	15 WHIPPLE RD	
2401	7		2	BRUCNER, ERROL & CAROL 13 WHIPPLE RD POMPTON PLAINS NJ 07444	13 WHIPPLE RD	
2401	8		2	SWEZEY, DAVID B & CATHY J 11 WHIPPLE RD POMPTON PLAINS NJ 07444	11 WHIPPLE RD	
2401	10		2	DOMBROWSKI, THOMAS S & MICHELLE 7 WHIPPLE RD POMPTON PLAINS NJ 07444	7 WHIPPLE RD	
2401	11		2	DAMO, THOMAS J & RENEE A. 5 WHIPPLE RD POMPTON PLAINS NJ 07444	5 WHIPPLE RD	
2401	12		2	NAIK, NILESH 115 WEST PARKWAY POMPTON PLAINS, NJ 07444	115 WEST PARKWAY	
2401	13		2	BUTLER, BRADFORD T 113 WEST PARKWAY POMPTON PLAINS, NJ 07444	113 WEST PARKWAY	
2401	14		2	KEEP, RONALD J & BARBARA 111 WEST PARKWAY POMPTON PLAINS NJ 07444	111 WEST PARKWAY	
2401	15		15D	AHS HOSP CORP C/O ANNA DUNITZ 475 SOUTH ST - 2ND FLR MORRISTOWN, NJ 07962	109 WEST PARKWAY	
2401	16		15D	AHS HOSP CORP C/O ANNA DUNITZ 475 SOUTH ST - 2ND FLR MORRISTOWN, NJ 07962	107 WEST PARKWAY	
2501	12		15A	PEQ TWP BD OF ED - HIGH SCHOOL 85 SUNSET RD POMPTON PLAINS NJ 07444	85 SUNSET RD	
2501	13		2	AHS HOSP CORP C/O ANNA DUNITZ 475 SOUTH ST - 2ND FLR MORRISTOWN, NJ 07962	96 WEST PARKWAY	
2501	14		2	AHS HOSP CORP C/O ANNA DUNITZ 475 SOUTH ST - 2ND FL. MORRISTOWN, NJ 07962	94 WEST PARKWAY	
3101	3		2	OKKER, CORNELIUS & IRENE 2 VAN DYK PL POMPTON PLAINS NJ 07444	2 VAN DYK PL	
3101	2		2	MYKITEN, THOMAS & DONNA MARIE 4 VAN DYK PL POMPTON PLAINS N J 07444	4 VAN DYK PL	
3101	34		2	FRITTS, DAVID & SANDRA 1 ARNOLD CT POMPTON PLAINS N J 07444	1 ARNOLD CT	
3101	35		2	CANN, TIMOTHY P & KRISTIN 84 WEST PARKWAY POMPTON PLAINS NJ 07444	84 WEST PARKWAY	
3101	36		2	MOORE, MICHAEL W & ANNE MARIE 86/WEST PARKWAY POMPTON PLAINS N J 07444	86 WEST PARKWAY 1RR
3101	37		2	ASANI, ZENEPE 149 CLINTON RD NEWFOUNDLAND, NJ 07435	88 WEST PARKWAY	

UTILITY CONTACTS

TOWNSHIP OF PEQUANNOCK WATER DEPT
530 NEWARK POMPTON TURNPIKE
POMPTON PLAINS, NJ 07444
(973) 835-5700 EXT. 190

CITY OF NEWARK
DIVISION OF WATER UTILITY
239 CENTRAL AVENUE
NEWARK, NJ 07103
P: (973) 733-6303
F: (973) 733-4819
JOE BECKMEYER

PASSAIC VALLEY WATER COMMISSION &
NORTH JERSEY WATER DISTRICT
1525 MAIN AVENUE
CLIFTON, NJ 07011
(973) 340-4320
JAMES DUPREY, GENERAL SUPERINTENDENT

TOWNSHIP OF PEQUANNOCK SEWER DEPT
530 NEWARK POMPTON TURNPIKE
POMPTON PLAINS, NJ 07444
(973) 835-5700 EXT. 190

LINCOLN PARK, FAIRFIELD &
PEQUANNOCK SEWERAGE AUTHORITY (TBSA)
PO BOX 188
LINCOLN PARK, NJ 07035
(973) 696-4494
WILLIAM MURPHY (973) 326-0928

JERSEY CENTRAL POWER & LIGHT CO.
46 PARSIPPANY BLVD.
BOONTON, NJ 07005
(973) 331-5315
F: (330) 245-5443
KIM FOSTER, PLANNER

VERIZON
290 W. MT. PLEASANT AVENUE
BLDG 4, GROUND FLOOR
LIVINGSTON, NJ 07039
(973)422-5141
PETER AUTERI, LEAD ENGINEER

TOWNSHIP OF PEQUANNOCK ENGINEERING DEPT
530 NEWARK POMPTON TURNPIKE
POMPTON PLAINS, NJ 07444
(973)835-5700 EXT. 188

COUNTY OF MORRIS ENGINEERING DEPT
COURTHOUSE
MORRISTOWN, NJ 07960
(201) 285-6759

PUBLIC SERVICE ELECTRIC & GAS COMPANY
LEAD SUPERVISOR – MICHAEL MAIETTA
(201) 337-2521
20 VAN VOOREN DRIVE
OAKLAND, NJ 07436
EMERGENCY: (NON PUBLIC) (201) 337-2409
NON EMERGENCY: (201) 337-2526
EVENING: (201) 365-5348
WEEKENDS & HOLIDAY (201) 684-7000
(201) 337-2562

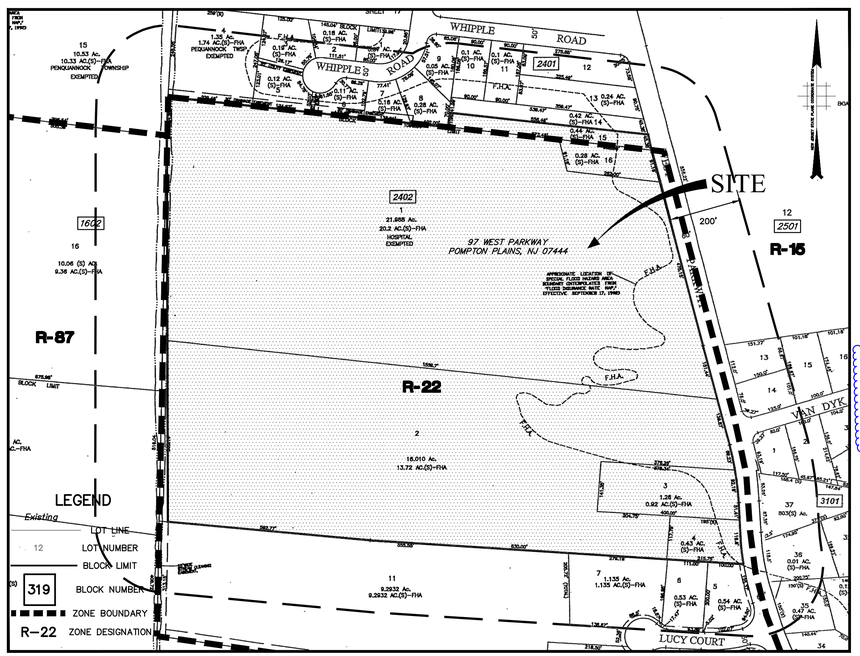
SPECTRA ENERGY (FORMERLY DUKE ENERGY)
(INCLUDES TEXAS EASTERN & ALGONQUIN GAS)
501 COOLIDGE STREET
SOUTH PLAINFIELD, NJ 07080
(908)757-1215
TIM VAUGHAN

JERSEY CENTRAL POWER & LIGHT CO.
300 MADISON AVENUE
PO BOX 911
MORRISTOWN, NJ 07960
(973)401-8143
F: (973) 644-4256
BAXTER TURLEY

PEQUANNOCK TOWNSHIP
BOARD OF EDUCATION TRANSPORTATION
85 SUNSET ROAD
POMPTON PLAINS, NJ 07444

CABLEVISION OF NORTH JERSEY
159 WINDERMERE AVENUE
GREENWOOD LAKE, NY, 10925
(845)595-6819
F: (845) 595-6814
DENNIS HANEY

NEW JERSEY DEPARTMENT OF TRANSPORTATION
ROXBURY CORPORATE CENTER
DISTRICT ENGINEER
200 STIERLI COURT
MT. ARLINGTON, NJ 07856-1322
(973)601-6700



AREA MAP
PEQUANNOCK TOWNSHIP TAX MAPS 16, 24, 25, 31

200 150 100 50 0 200 400 600
GRAPHIC SCALE
1 inch=200 feet

ZONING DATA

CITATION	STANDARD	REQUIRED	EXISTING	PROPOSED	COMPLIES
§360-11	R-22 RESIDENCE DISTRICT				
§360-11 A.	USE REGULATIONS				
§360-11 A.(1)	PERMITTED USES	MULTIPLE	NONE	NONE	Y
§360-11 A.(2)	ACCESSORY USES	MULTIPLE	MULTIPLE	NO CHANGE	Y
§360-11 A.(3)	CONDITIONAL USES	MULTIPLE	HOSPITAL	NO CHANGE	Y
§360-11 B.	BULK REGULATIONS (PER §360-41F)				
§360-11 B.(1)	MINIMUM LOT AREA	5 ACRES	40.33 ACRES	40.33 ACRES	Y
§360-11 B.(2)	MINIMMUM LOT WIDTH	300 FEET	1,193 FEET	1,193 FEET	Y
§360-11 B.(3)	MAXIMUM HEIGHT	5 STORIES/75 FEET	5 STORIES	5 STORIES	Y
§360-11 B.(4)	MINIMUM FRONT YARD	100 FEET	100 FEET	100 FEET	Y
§360-11 B.(5)	MINIMUM REAR YARD AND PLANTED BUFFER STRIP	100 FEET/25 FEET	100 FEET/ >25 FEET	100 FEET/ >25 FEET	Y
§360-11 B.(6)	MINIMUM SIDE YARD AND PLANTED BUFFER STRIP	100 FEET/25 FEET	100 FEET/ >25 FEET	100 FEET/ >25 FEET	Y
§360-11 B.(7)	MAXIMUM BUILDING COVERAGE	30%	10.4% 182,733 SF	10.4% 182,733 SF	Y
§360-11 B.(7)	MAXIMUM IMPERVIOUS COVERAGE	60%	40.5% 712,243 SF	40.6% 712,446 SF	Y
§360-11 B.(8)	MINIMUM LOT FRONTAGE	300 FEET	412.9 FEET	412.9 FEET	Y
§360-11 B.(9)	MINIMUM LOT DEPTH	200 FEET	1,434 FEET	1,434 FEET	Y
§360-53 B.	MINIMUM PARKING SPACES	1 PER 250 SF GFA	1,038 SPACES	NO CHANGE	Y

N/A - NOT APPLICABLE TO CURRENT APPLICATION PROPOSAL

GENERAL NOTES

1. THIS SITE IS COMMONLY KNOWN AS BLOCK 2401, LOTS 15 AND 16, AND BLOCK 2402, LOTS 1, 2, 3, AND 4 AS SHOWN ON THE TOWN OF PEQUANNOCK TAX MAP SHEET NO. 24, IN MORRIS COUNTY, NEW JERSEY.
2. THIS SITE IS LOCATED WITHIN THE RESIDENTIAL (R-22) ZONE.
3. THE ENTIRE TRACT CONTAINS 1,756,937 SQUARE FEET (40.33 ACRES).
4. PROJECT DATUMS HORIZONTAL: NAD 1983 VERTICAL: NAVD 1988
5. OWNER: / APPLICANT:
   AHS HOSPITAL CORP. — ABOVE GRID SOLAR CARPORT 2020 LLC
   475 SOUTH STREET — 516 Rt 33 WEST, BUILDING 2, SUITE 101
   MORRISTOWN, NJ 07962 — MILLSTONE, NJ 08535
6. BOUNDARY AND PHYSICAL INFORMATION SHOWN HEREON TAKEN FROM ALTA SURVEY ENTITLED "ALTA/NSPS LAND TITLE SURVEY FOR CHILTON MEDICAL CENTER", PREPARED BY PARTNER ENGINEERING AND SCIENCE, INC., FIELD WORK COMPLETED 07/21/2021.
7. THE TOPOGRAPHIC (CONTOUR) INFORMATION IS BASED ON THE FOLLOWING REFERENCES:
   7.A. A MAP ENTITLED, "BOUNDARY AND TOPOGRAPHIC SURVEY, LOTS 1, 2, 3, 4 IN BLOCK 2402 AND LOTS 15 & 16 IN BLOCK 2401, TOWNSHIP OF PEQUANNOCK, MORRIS COUNTY, NEW JERSEY" PREPARED BY CMX DATED 02/09/07 AND LAST REVISED 03/17/09
   7.B. A MAP ENTITLED, "PROPOSED MINOR SUBDIVISION FOR CHILTON HOSPITAL, PEQUANNOCK TOWNSHIP, NEW JERSEY" BY ROBERT W. HEADLEY, DATED MAY 16, 1986 AND REVISED TO NOVEMBER 18, 1986.
   7.C. A MAP ENTITLED, "MAP OF PROPERTY CHILTON MEMORIAL HOSPITAL, PEQUANNOCK TOWNSHIP, MORRIS COUNTY, NEW JERSEY" BY ROBERT W. HEADLEY DATED NOVEMBER 25, 1986.
   7.D. A MAP ENTITLED, "FINAL PLAT ALDEN HOMES, TOWNSHIP OF PEQUANNOCK, MORRIS COUNTY, N.J.", DATED JANUARY, 1978 AND FILED AUGUST 14, 1978 IN THE MORRIS COUNTY CLERK'S OFFICE AS MAP #3726.
   7.E. A MAP ENTITLED, "FINAL PLAT SUNSET RIDGE, LOT 8, BLOCK 411, TOWNSHIP OF PEQUANNOCK, MORRIS COUNTY, NEW JERSEY" DATED 7/01/93 AND LAST REVISED 12/28/95, FILED IN THE MORRIS COUNTY CLERK'S OFFICE MARCH 13, 1996 AS MAP #5223
   7.F. A MAP ENTITLED, "BOUNDARY AND TOPOGRAPHIC SURVEY FOR CHILTON HOSPITAL LOTS 1, 2, 3 & 4 BLOCK 2402, LOTS 15 & 16 BLOCK 2401, TOWNSHIP OF PEQUANNOCK, MORRIS COUNTY, NEW JERSEY". PREPARED BY MASER CONSULTING, PA. DATED JUNE 4, 2012 LAST REVISED JULY 31, 2012
8. FLOOD AREA INFORMATION SHOWN HEREON TAKEN FROM "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, TOWNSHIP OF PEQUANNOCK, MORRIS COUNTY, NEW JERSEY, PANEL 3 OF 3," COMMUNITY PANEL 3453110003C, EFFECTIVE DATE: 09/17/1992. PANEL 3 OF 3.
9. WETLAND LIMITS DELINEATED BY SCHOOR DEPALMA IN NOVEMBER, 2006 AND FIELD SURVEYED BY SCHOOR DEPALMA IN DECEMBER, 2006 (GLEN J. LLOYD).
10. TREE, LANDSCAPE, AND LIGHTING INFORMATION SHOWN HEREON VERIFIED IN FIELD BY PARTNER ENGINEERING AND SCIENCE, INC. ON 08/09/2021.
11. CARPORT DESIGN FOR "CHILTON MEDICAL CENTER", PREPARED BY PARASOL STRUCTURES, DATED 08/19/2021.
12. LOCATIONS OF LINE INVERTERS, ELECTRIC VEHICLE CHARGING STATIONS, AND OTHER COLUMN-MOUNTED ACCESSORIES SHOWN ON PLANS MAY BE SUBJECT TO CHANGE DURING CONSTRUCTION.
13. CONTRACTOR SHALL PROVIDE A TRAINING SESSION, PERTAINING TO SHUTTING OFF THE ELECTRICAL COMPONENT OF THE SOLAR ARRAY SYSTEM, FOR THE MUNICIPAL AND HOSPITAL EMERGENCY SERVICES PRIOR TO RECEIVING FINAL CERTIFICATE OF OCCUPANCY/OPERATION OF SAID SOLAR ARRAY SYSTEM.
14. THE ROOFS OF THE SOLAR PANEL ARRAYS PITCH TOWARD THE ARRAY INTERIOR GUTTER LINE. SNOW AND ICE MELTING WILL FLOW INWARD TO THE GUTTER. NO SNOW OR ICE WILL SLIDE OFF THE EXTERIOR EDGES OF THE SOLAR PANELS.

INDEX OF SHEETS

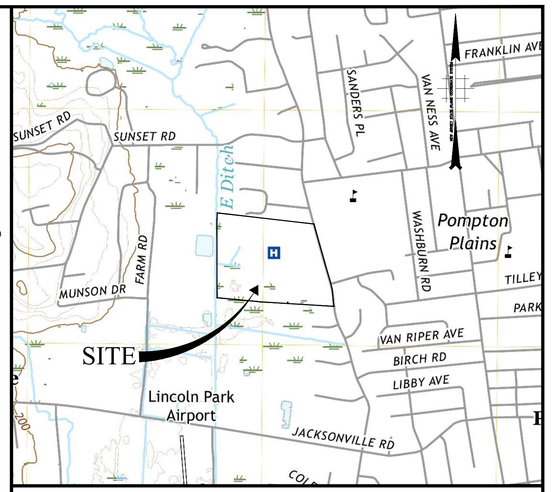
SITE PLAN
1. COVER SHEET
2. EXISTING CONDITIONS PLAN
3. LAYOUT PLAN
4. LAYOUT PLAN
5. DRAINAGE AND UTILITY PLAN
6. DRAINAGE AND UTILITY PLAN
7. TREE REPLACEMENT AND LIGHT RELOCATION PLAN
8. LIGHTING PLAN
9. SOIL EROSION AND SEDIMENT CONTROL PLAN
10. SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
11. LANDSCAPE AND LIGHTING DETAILS
12. CONSTRUCTION DETAILS

SURVEY
1. ALTA/NSPS LAND TITLE SURVEY FOR CHILTON MEDICAL CENTER
2. ALTA/NSPS LAND TITLE SURVEY FOR CHILTON MEDICAL CENTER
3. ALTA/NSPS LAND TITLE SURVEY FOR CHILTON MEDICAL CENTER
4. ALTA/NSPS LAND TITLE SURVEY FOR CHILTON MEDICAL CENTER
5. ALTA/NSPS LAND TITLE SURVEY FOR CHILTON MEDICAL CENTER

CARPORT DESIGN PLANS
S000 COVER SHEET
S010 SITE PLAN – FOUNDATION LAYOUT
S011 SITE PLAN – PV ARRAY LAYOUT
S012 – S013 SITE PLAN – FOUNDATION LAYOUT
S014 – S015 SITE PLAN – PV ARRAY LAYOUT
S021 TYPICAL CANOPY SECTION
S031 TYPICAL FOUNDATION
S101 – S102 CANOPY PLANS
S301 – S302 CANOPY SECTIONS

VARIANCE FROM ORDINANCES

1. FROM SITE PLAN CHECKLIST A. TO ALLOW FOR A KEY MAP SCALE OF 1"=200' WHERE A SCALE OF 1"=100' IS REQUIRED.
2. FROM SITE PLAN CHECKLIST U. TO REQUIRE EXISTING AND PROPOSED SPOT ELEVATIONS AT ALL BUILDING CORNER, ALL FLOOR LEVELS, CENTER LINES AND ROW'S OF ABUTTING ROADS, TOP AND BOTTOM OF CURBS, PROPERTY CORNERS, GUTTERS, AND OTHER PERTINENT LOCATIONS BASED ON U.S. COAST AND GEODETIC DATUM.
3. FROM FROM SITE PLAN CHECKLIST Y. TO REQUIRE THE LOCATION OF ALL UTILITIES, INCLUDING HEATING AND AIR CONDITIONING.



KEY MAP
POMPTON PLAINS USGS QUAD MAP
SCALE: 1" = 1000'

ABOVEgrid
clean energy development

PARASOL STRUCTURES

APPLICATION NO. _____
APPROVED BY THE PEQUANNOCK TOWNSHIP PLANNING BOARD
AS A MAJOR SITE PLAN
ON _____

CHAIRPERSON DATE

SECRETARY DATE

NO.	DATE	REVISION	DRAWN	CHK'D	REL'D
1.	10/15/2021	REVISED PER COMPLETENESS REVIEW	MS	PS	JS

PARTNER Engineering and Science, Inc.
(a DBA of Partner Assessment Corp. a NJ Engineering firm)
JEFFREY C. SZABO, P.E.
NJ PROFESSIONAL ENGINEER Lic. No. 24GE04457700
611 Industrial Way West
Eatontown, NJ 07724
NJ Certificate of Authorization No. 24GA28222900
Tel.: 732.380.1700
Fax.: 732.380.1701
WWW.PARTNERESI.COM

Date	Scale:(H) (V)	AS SHOWN N/A	Drawn	Designed	Checked	Released
08/19/2021			MS	JS	PS	JS

COVER SHEET
MAJOR SITE PLAN
SOLAR CARPORTS FOR CHILTON MEDICAL CENTER
PEQUANNOCK TOWNSHIP
BLOCK 2401, LOTS 15 & 16; BLOCK 2402, LOTS 1-4

SITUATED IN
PEQUANNOCK TOWNSHIP, MORRIS COUNTY, NEW JERSEY

Job No.	Drawer Number	Drawing Name:	
003-20-003	000-000	01-COVER.dwg	1 OF 13

Plotted:10/14/21 – 6:32 PM, By: msaul
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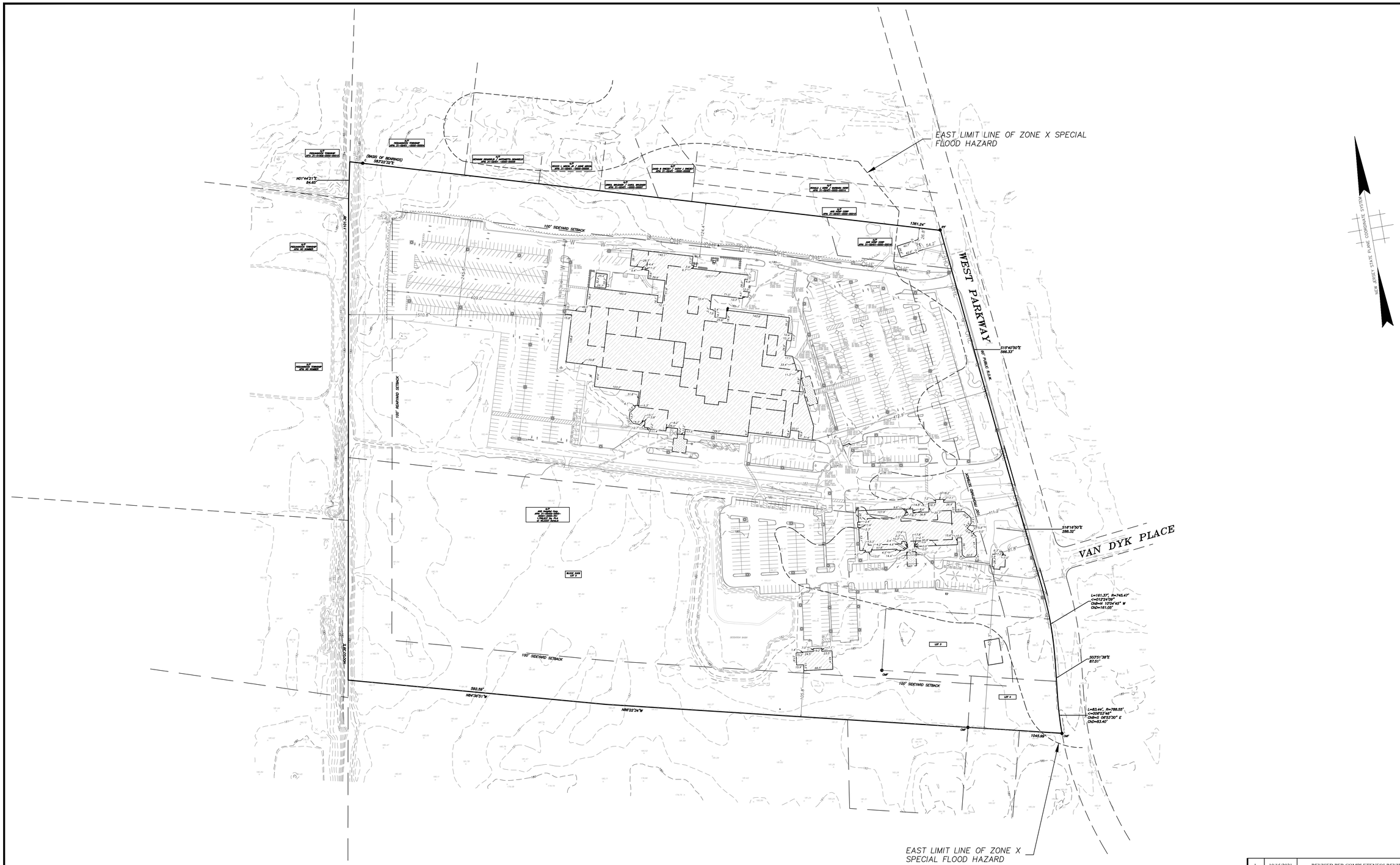

100 75 50 25 0 100 200 300

GRAPHIC SCALE
1 inch=100 feet

NO.	DATE	REVISION	DRAWN	CHK'D	REL'D
1.	10/15/2021	REVISED PER COMPLETENESS REVIEW	MS	PS	JS

PARTNER
Engineering and Science, Inc.
(a DBA of Partner Assessment Corp. a NJ Engineering firm)

JEFFREY C. SZABO, P.E.
NJ PROFESSIONAL ENGINEER Lic. No. 24GE04457700

611 Industrial Way West
Eatontown, NJ 07724
NJ Certificate of Authorization No. 24GA28222900

Tel.: 732.380.1700
Fax.: 732.380.1701
WWW.PARTNERESI.COM

Date	Scale:(H) 1"=100' (V) N/A	Drawn	Designed	Checked	Released
08/19/2021		MS	JS	PS	JS

EXISTING CONDITIONS PLAN
MAJOR SITE PLAN
SOLAR CARPORTS FOR CHILTON MEDICAL CENTER
PEQUANNOCK TOWNSHIP
BLOCK 2401, LOTS 15 & 16; BLOCK 2402, LOTS 1-4

SITUATED IN
PEQUANNOCK TOWNSHIP, MORRIS COUNTY, NEW JERSEY

Job No.	Drawer Number	Drawing Name:	
003-20-003	000-000	02-EXIST.dwg	2 OF 13

Plotted:10/14/21 – 5:42 PM, By: msun
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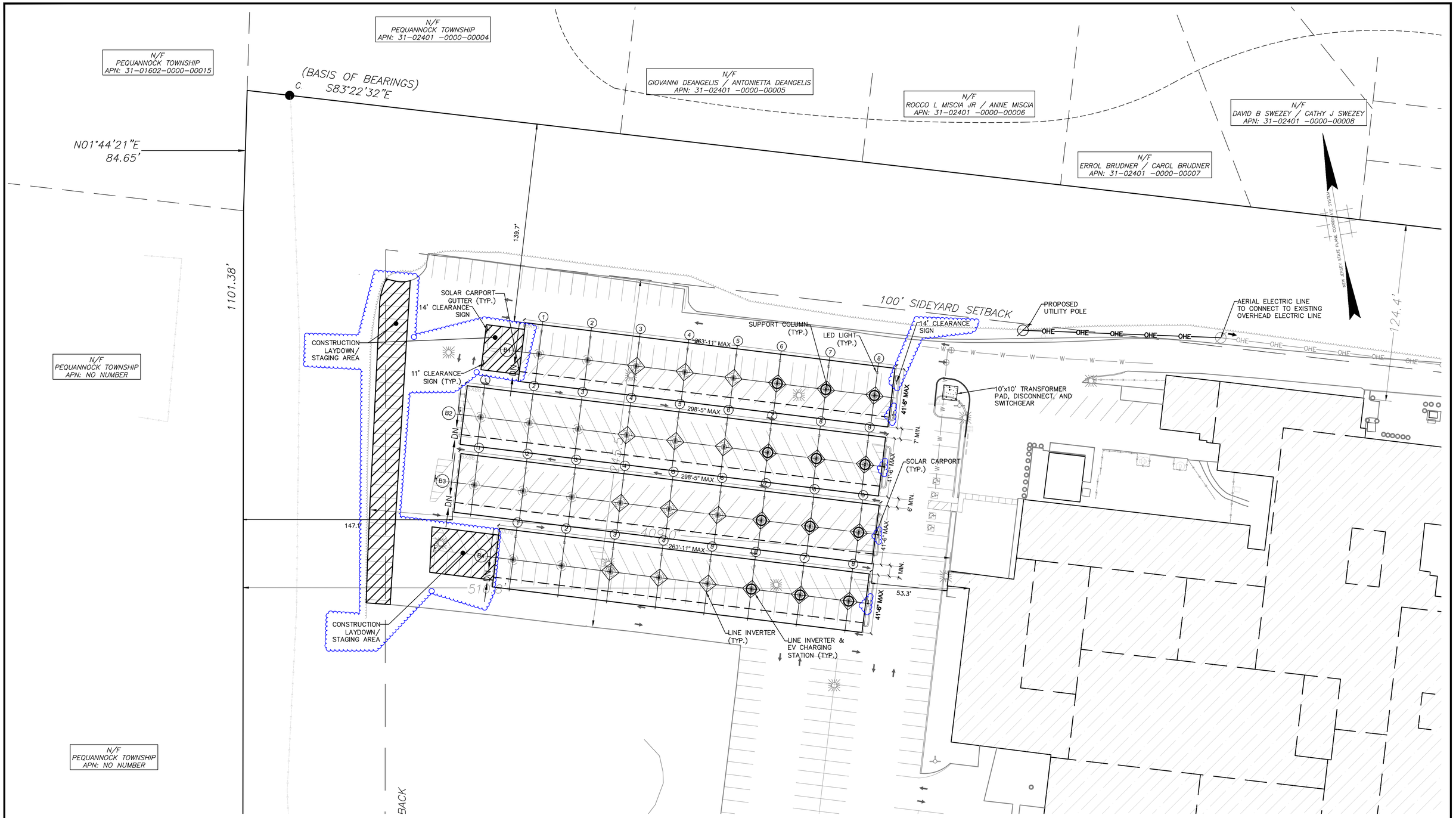

NOTES:

1. SOLAR CARPORT ARRAY DESIGN TAKEN FROM PLANS ENTITLED "CHILTON HEALTH MEDICAL CENTER, SITE PLAN – PV ARRAY LAYOUT", PREPARED BY PARASOL STRUCTURES, DATED AUGUST 19, 2021.
2. STRIPED PEDESTRIAN WALKWAYS SHALL HAVE A MINIMUM OF 4 FEET CLEARANCE FOR PEDESTRIANS, ARRAY COLUMNS TO BE ADJUSTED TO PROVIDE REQUIRED CLEARANCE.

30 20 10 0 30 60 90

GRAPHIC SCALE
1 inch=30 feet

NO.	DATE	REVISION	DRAWN	CHK'D	REL'D
1.	10/15/2021	REVISED PER COMPLETENESS REVIEW	MS	PS	JS

PARTNER
Engineering and Science, Inc.®
(a DBA of Partner Assessment Corp. a NJ Engineering firm)

JEFFREY C. SZABO, P.E.
NJ PROFESSIONAL ENGINEER Lic. No. 24GE04457700

611 Industrial Way West
Eatontown, NJ 07724
NJ Certificate of Authorization No. 24GA28222900

Tel.: 732.380.1700
Fax.: 732.380.1701
WWW.PARTNERESI.COM

Date	Scale:(H) 1"=30' (V) N/A	Drawn	Designed	Checked	Released
08/19/2021		MS	JS	PS	JS

LAYOUT PLAN
MAJOR SITE PLAN
SOLAR CARPORTS FOR CHILTON MEDICAL CENTER
PEQUANNOCK TOWNSHIP
BLOCK 2401, LOTS 15 & 16; BLOCK 2402, LOTS 1-4

SITUATED IN
PEQUANNOCK TOWNSHIP, MORRIS COUNTY, NEW JERSEY

Job No.	Drawer Number	Drawing Name:	
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Plotted:10/14/21 - 5:45 PM, By: msun
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NOTE: SOLAR CARPORT ARRAY DESIGN TAKEN FROM PLANS ENTITLED "CHILTON HEALTH MEDICAL CENTER, SITE PLAN – PV ARRAY LAYOUT", PREPARED BY PARASOL STRUCTURES, DATED AUGUST 19, 2021.

30 20 10 0 30 60 90

GRAPHIC SCALE
1 inch=30 feet

NO.	DATE	REVISION	DRAWN	CHK'D	REL'D
1.	10/15/2021	REVISED PER COMPLETENESS REVIEW	MS	PS	JS

PARTNER
Engineering and Science, Inc.
(a DBA of Partner Assessment Corp. a NJ Engineering firm)

JEFFREY C. SZABO, P.E.
NJ PROFESSIONAL ENGINEER Lic. No. 24GE04457700

611 Industrial Way West
Eatontown, NJ 07724
NJ Certificate of Authorization No. 24GA28222900

Tel.: 732.380.1700
Fax.: 732.380.1701
WWW.PARTNERESI.COM

Date	Scale:(H) 1"=30' (V) N/A	Drawn	Designed	Checked	Released
08/19/2021		MS	JS	PS	JS

LAYOUT PLAN
MAJOR SITE PLAN
SOLAR CARPORTS FOR CHILTON MEDICAL CENTER
PEQUANNOCK TOWNSHIP
BLOCK 2401, LOTS 15 & 16; BLOCK 2402, LOTS 1-4

SITUATED IN
PEQUANNOCK TOWNSHIP, MORRIS COUNTY, NEW JERSEY

Job No.	Drawer Number	Drawing Name:	
003-20-003	000-000	03-LAYOUT.dwg	4 OF 13

Plotted:10/14/21 – 5:45 PM, By: msud
File: S:\Civil\Projects\003 - CHILTON MEDICAL CENTER SOLAR\003 - 20-003 Chilton Medical Center\Plan\Dwg\03-LAYOUT.dwg, ----> 04-LAYOUT
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N/F
PEQUANNOCK TOWNSHIP
APN: 31-01602-0000-00015

N/F
PEQUANNOCK TOWNSHIP
APN: 31-02401 -0000-00004

(BASIS OF BEARINGS)
S83°22'32"E

N01°44'21"E
84.65'

1101.38'

N/F
GIOVANNI DEANGELIS / ANTONIETTA DEANGELIS
APN: 31-02401 -0000-00005

N/F
ROCCO L MISCIA JR / ANNE MISCIA
APN: 31-02401 -0000-00006

N/F
DAVID B SWEZEY / CATHY J SWEZEY
APN: 31-02401 -0000-00008

N/F
ERROL BRUDNER / CAROL BRUDNER
APN: 31-02401 -0000-00007

N/F
PEQUANNOCK TOWNSHIP
APN: NO NUMBER

NEW JERSEY STATE PLANE COORDINATE SYSTEM

INSET A

100' SIDEYARD SETBACK

SOLAR CARPORT GUTTER (TYP.)
14' CLEARANCE SIGN

BUBBLER DRAIN, 2' FROM DOWNSPOUT

ELECTRIC LINE (TYP.)

SUPPORT COLUMN (TYP.)

LED LIGHT (TYP.)

14' CLEARANCE SIGN

PROPOSED UTILITY POLE

AERIAL ELECTRIC LINE TO CONNECT TO EXISTING OVERHEAD ELECTRIC LINE

CONSTRUCTION LAYDOWN/ STAGING AREA

11' CLEARANCE SIGN (TYP.)

10'x10' TRANSFORMER PAD, DISCONNECT, AND SWITCHGEAR

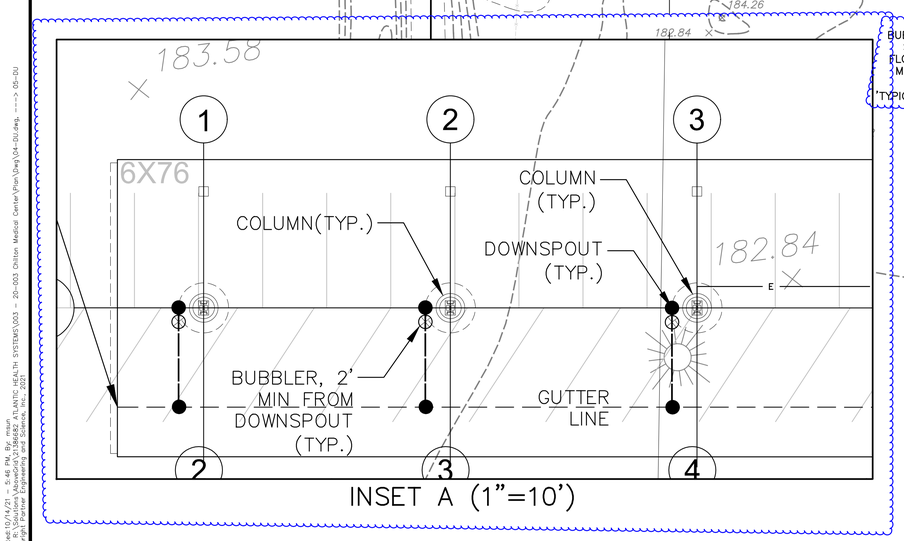
SOLAR CARPORT (TYP.)

CONSTRUCTION LAYDOWN/ STAGING AREA

LINE INVERTER (TYP.)

LINE INVERTER & EV CHARGING STATION (TYP.)

BUBBLERS DRAINS TO DISCHARGE COLLECTED STORMWATER UP TO SURFACE AND SHEET FLOW TOWARD SOUTH SIDE OF PARKING LOT, MIMICKING EXISTING DRAINAGE CONDITIONS . TYPICAL FOR ALL COLUMNS; SEE DETAIL 'TYPICAL BUBBLER DRAIN' ON SHEET 12 OF 12.



INSET A (1"=10')

NOTE:
1. SOLAR CARPORT ARRAY DESIGN TAKEN FROM PLANS ENTITLED "CHILTON HEALTH MEDICAL CENTER, SITE PLAN – PV ARRAY LAYOUT", PREPARED BY PARASOL STRUCTURES, DATED AUGUST 19, 2021.
2. FOR DRAINAGE PIPE SIZE, TYPE & GENEAL SLOPE, SEE DETAIL 'TRENCH DETAIL (DRAINAGE AND ELECTRICAL CONDUIT)'

30 20 10 0 30 60 90
GRAPHIC SCALE
1 inch=30 feet

NO.	DATE	REVISION	DRAWN	CHK'D	REL'D
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JEFFREY C. SZABO, P.E.
NJ PROFESSIONAL ENGINEER Lic. No. 24GE04457700
611 Industrial Way West
Eatontown, NJ 07724
NJ Certificate of Authorization No. 24GA28222900
Tel.: 732.380.1700
Fax.: 732.380.1701
WWW.PARTNERESI.COM

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08/19/2021		MS	JS	PS	JS

DRAINAGE AND UTILITY PLAN
MAJOR SITE PLAN
SOLAR CARPORTS FOR CHILTON MEDICAL CENTER
PEQUANNOCK TOWNSHIP
BLOCK 2401, LOTS 15 & 16; BLOCK 2402, LOTS 1-4

SITUATED IN
PEQUANNOCK TOWNSHIP, MORRIS COUNTY, NEW JERSEY

Job No.	Drawer Number	Drawing Name:	
003-20-003	000-000	04-DU.dwg	5 OF 13

Plotted:10/14/21 - 5:46 PM, By: mrun
File: G:\Drawings\003-20-003 CHILTON ATLANTIC HEALTH SYSTEMS\003 - 20-003 Chilton Medical Center\Plan\Dwg\04-DU.dwg, ----> 05-DU
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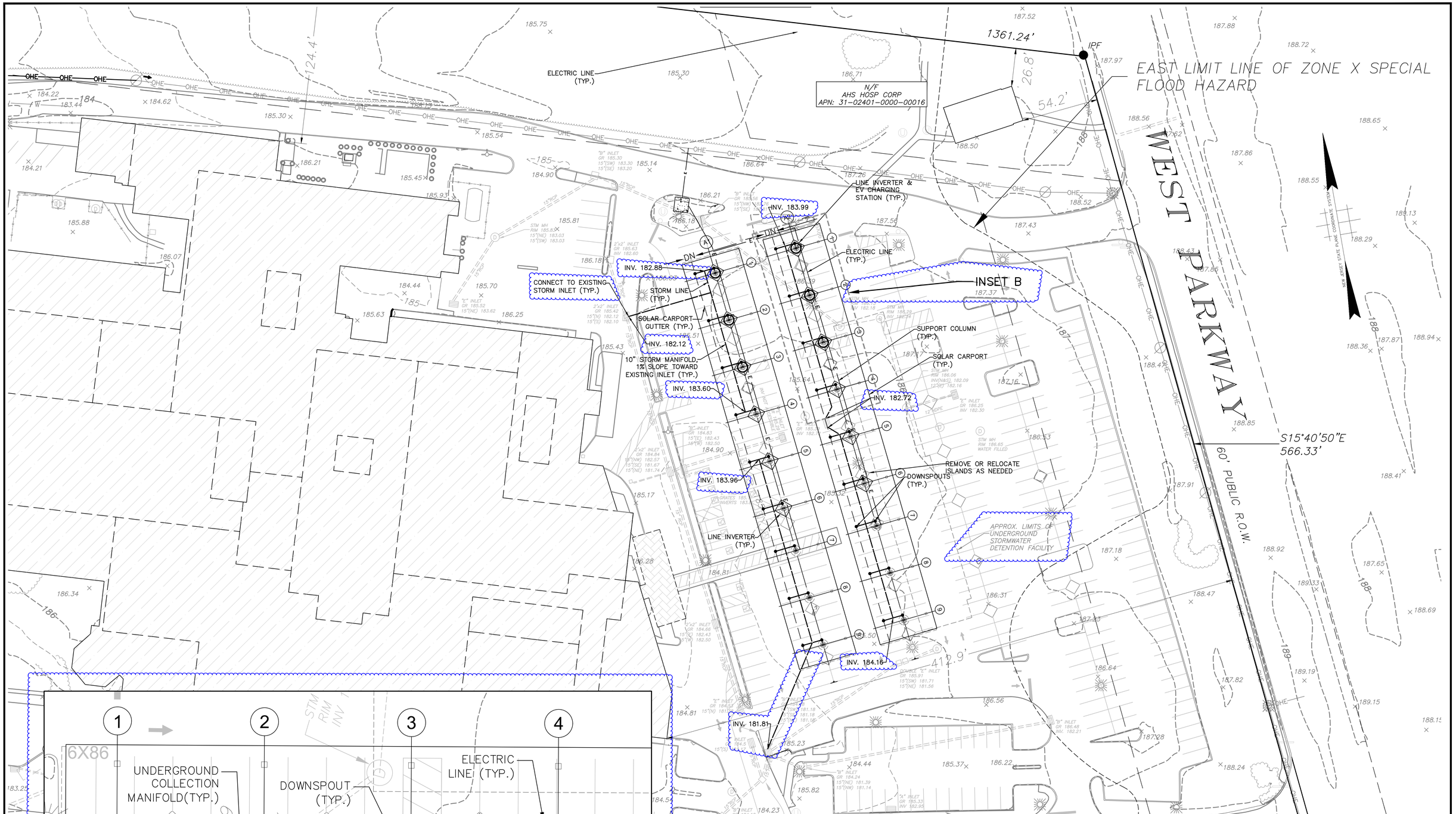

NOTE: SOLAR CARPORT ARRAY DESIGN TAKEN FROM PLANS ENTITLED "CHILTON HEALTH MEDICAL CENTER, SITE PLAN – PV ARRAY LAYOUT", PREPARED BY PARASOL STRUCTURES, DATED AUGUST 19, 2021.

30 20 10 0 30 60 90

GRAPHIC SCALE
1 inch=30 feet

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PARTNER
Engineering and Science, Inc.
(a DBA of Partner Assessment Corp. a NJ Engineering firm)
JEFFREY C. SZABO, P.E.
NJ PROFESSIONAL ENGINEER Lic. No. 24GE04457700
611 Industrial Way West
Eatontown, NJ 07724
NJ Certificate of Authorization No. 24GA28222900
Tel.: 732.380.1700
Fax.: 732.380.1701
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Date	Scale:(H)	(V)	Drawn	Designed	Checked	Released
08/19/2021	1"=30'	N/A	MS	JS	PS	JS

DRAINAGE AND UTILITY PLAN
MAJOR SITE PLAN
SOLAR CARPORTS FOR CHILTON MEDICAL CENTER
PEQUANNOCK TOWNSHIP
BLOCK 2401, LOTS 15 & 16; BLOCK 2402, LOTS 1-4

SITUATED IN
PEQUANNOCK TOWNSHIP, MORRIS COUNTY, NEW JERSEY

Job No.	Drawer Number	Drawing Name:	
003-20-003	000-000	04-DU.dwg	6 OF 13

Plotted:10/14/21 - 5:46 PM, By: msun
File:S:\CIVIL\PROJECTS\CHILTON HEALTH SYSTEM\003 - 20-003 Chilton Medical Center\Plan\Dwg\04-DU.dwg, ---> 06-DU
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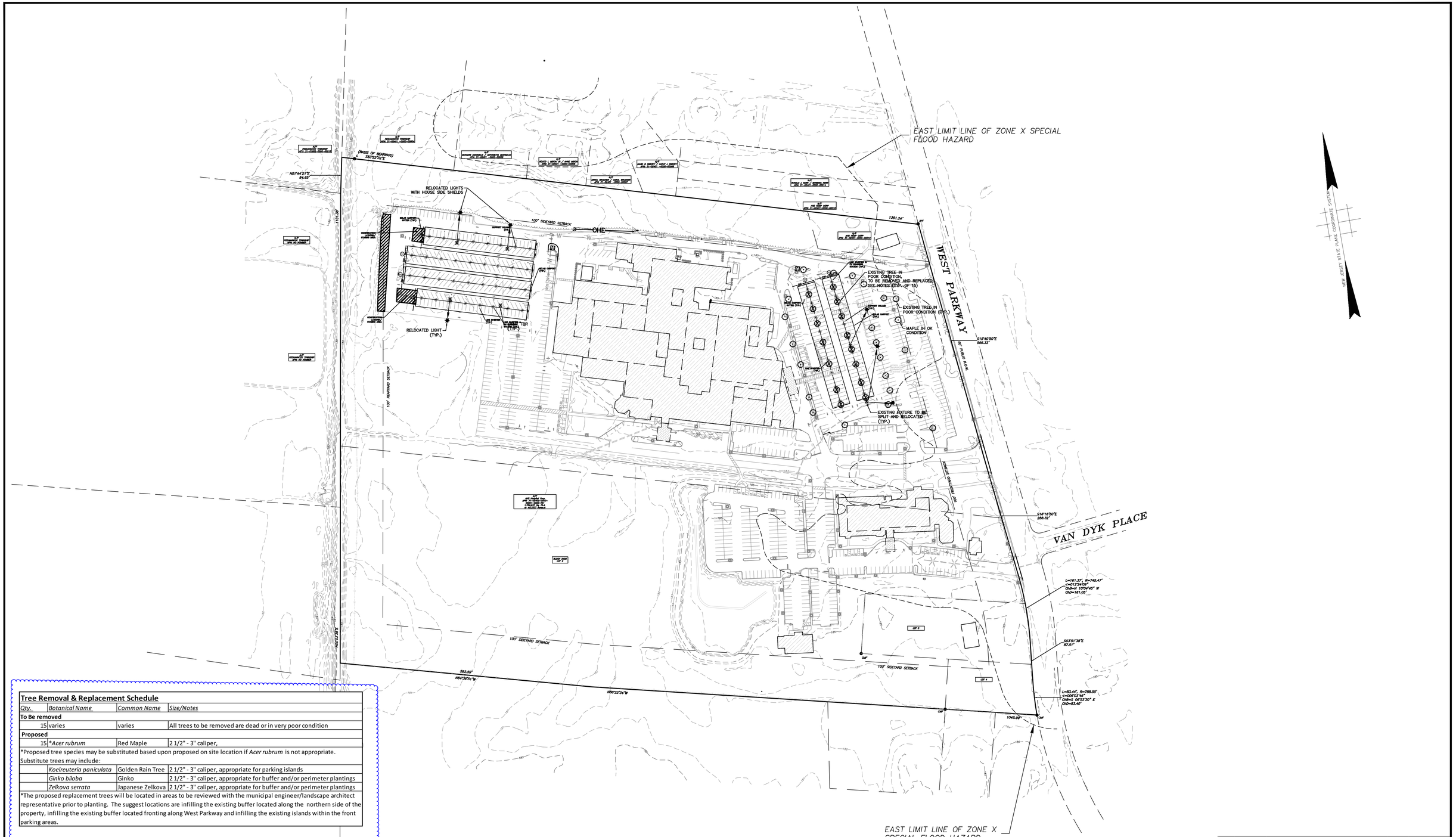

Tree Removal & Replacement Schedule

Qty.	Botanical Name	Common Name	Size/Notes
To Be removed			
15	varies	varies	All trees to be removed are dead or in very poor condition
Proposed			
15	*Acer rubrum	Red Maple	2 1/2" - 3" caliper,
*Proposed tree species may be substituted based upon proposed on site location if *Acer rubrum* is not appropriate. Substitute trees may include:			
	Koelreuteria paniculata	Golden Rain Tree	2 1/2" - 3" caliper, appropriate for parking islands
	Ginko biloba	Ginko	2 1/2" - 3" caliper, appropriate for buffer and/or perimeter plantings
	Zelkova serrata	Japanese Zelkova	2 1/2" - 3" caliper, appropriate for buffer and/or perimeter plantings
*The proposed replacement trees will be located in areas to be reviewed with the municipal engineer/landscape architect representative prior to planting. The suggest locations are infilling the existing buffer located along the northern side of the property, infilling the existing buffer located fronting along West Parkway and infilling the existing islands within the front parking areas.			

NOTES:

1. SOLAR CARPORT ARRAY DESIGN TAKEN FROM PLANS ENTITLED "CHILTON HEALTH MEDICAL CENTER, SITE PLAN – PV ARRAY LAYOUT", PREPARED BY PARASOL STRUCTURES, DATED AUGUST 19, 2021.
2. THE PROPOSED REPLACEMENT TREES (REPLACING THE POOR CONDITION TREES TO BE REMOVED) WILL BE LOCATED IN AREAS TO BE REVIEWED WITH THE MUNICIPAL ENGINEER/LANDSCAPE REPRESENTATIVE PRIOR TO PLANTING. THE SUGGESTED LOCATIONS ARE INFILLING THE EXISTING BUFFER LOCATED ALONG THE NORTHERN SIDE OF THE PROPERTY; INFILLING THE EXISTING BUFFER LOCATED FRONTING ALONG WEST PARKWAY; AND INFILLING THE EXISTING ISLANDS WITHIN THE FRONT PARKING AREAS
3. REPLACEMENT TREE TYPE WILL DEPEND ON THE LOCATION THEY ARE PLANTED. PARKING ISLANDS SHOULD BE KOELREUTERIA PANICULATE (GOLDENRAIN TREE) AND ANY BUFFER PERIMETER TREES SHOULD BE ACER RUBRUM (RED MAPLE), GINKO BILOBA (GINKO), AND/OR ZELOVKA SERRATA, JAPANESE ZELKOVA
4. REPLACEMENT TREE TO NOT BE RELOCATED WITHIN 15 FEET OF A LIGHT POLE.
5. PROPOSED RELOCATED LIGHT POLES SHALL BE THOSE ORIGINAL LIGHT FIXTURES OR ELSE SHALL BE EQUIVALENT IN STYLE, MOUNTING HEIGHT, AND INTENSITY TO THOSE BEING REMOVED

100 75 50 25 0 100 200 300

GRAPHIC SCALE
1 inch=100 feet

NO.	DATE	REVISION	DRAWN	CHK'D	REL'D
1.	10/15/2021	REVISED PER COMPLETENESS REVIEW	MS	PS	JS

PARTNER
Engineering and Science, Inc.
(a DBA of Partner Assessment Corp, a NJ Engineering firm)

WILLIAM McCOLLUM, L.L.A.
NJ LICENSED LANDSCAPE ARCHITECT Lic. No. 21AS00105800
611 Industrial Way West
Eatontown, NJ 07724
NJ Certificate of Authorization No. 24GA28222900
Tel.: 732.380.1700
Fax.: 732.380.1701
WWW.PARTNERESI.COM

Date	Scale:(H) 1"=100' (V) N/A	Drawn	Designed	Checked	Released
08/19/2021		MS	WM	PS	JS

TREE REPLACEMENT AND LIGHT RELOCATION PLAN
MAJOR SITE PLAN
SOLAR CARPORTS FOR CHILTON MEDICAL CENTER
PEQUANNOCK TOWNSHIP
BLOCK 2401, LOTS 15 & 16; BLOCK 2402, LOTS 1-4

SITUATED IN
PEQUANNOCK TOWNSHIP, MORRIS COUNTY, NEW JERSEY

Job No.	Drawer Number	Drawing Name:	
003-20-003	000-000	05-TREE-LIGHT.dwg	7 OF 12

Plotted:10/14/21 – 5:47 PM, By: mmun
File: S:\Projects\2020\003-20-003 CHILTON ATLANTIC HEALTH SYSTEMS\003 – 20-003 Chilton Medical Center\Plan\Dwg\05-TREE-LIGHT.dwg, ----> 07-TREE-LIGHT
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NOTES:

* The light loss factor (LLF) is a product of many variables, only lamp lumen depreciation (LLD) has been applied to the calculated results unless otherwise noted. The LLD is the result (quotient) of mean lumens / initial lumens per lamp manufacturers' specifications.

* Illumination values shown (in footcandles) are the predicted results for planes of calculation either horizontal, vertical or inclined as designated in the calculation summary. Meter orientation is normal to the plane of calculation.

* The calculated results of this lighting simulation represent an anticipated prediction of system performance. Actual measured results may vary from the anticipated performance and are subject to means and methods which are beyond the control of RAB Lighting Inc.

* Mounting height determination is job site specific, our lighting simulations assume a mounting height (insertion point of the luminaire symbol) to be taken at the top of the symbol for ceiling mounted luminaires and at the bottom of the symbol for all other luminaire mounting configurations.

* It is the Owner's responsibility to confirm the suitability of the existing or proposed poles and bases to support the proposed fixtures, based on the weight and EPA of the proposed fixtures and the owner's site soil conditions and wind zone. It is recommended that a professional engineer licensed to practice in the state the site is located be engaged to assist in this determination.

* The landscape material shown hereon is conceptual, and is not intended to be an accurate representation of any particular plant, shrub, bush, or tree, as these materials are living objects, and subject to constant change. The conceptual objects shown are for illustrative purposes only. The actual illumination values measured in the field will vary.

* Photometric model elements such as buildings, rooms, plants, furnishings or any architectural details which impact the dispersion of light must be detailed by the customer documents for inclusion in the RAB lighting design model. RAB is not responsible for any inaccuracies caused by incomplete information on the part of the customer, and reserves the right to use best judgement when translating customer requests into photometric studies.

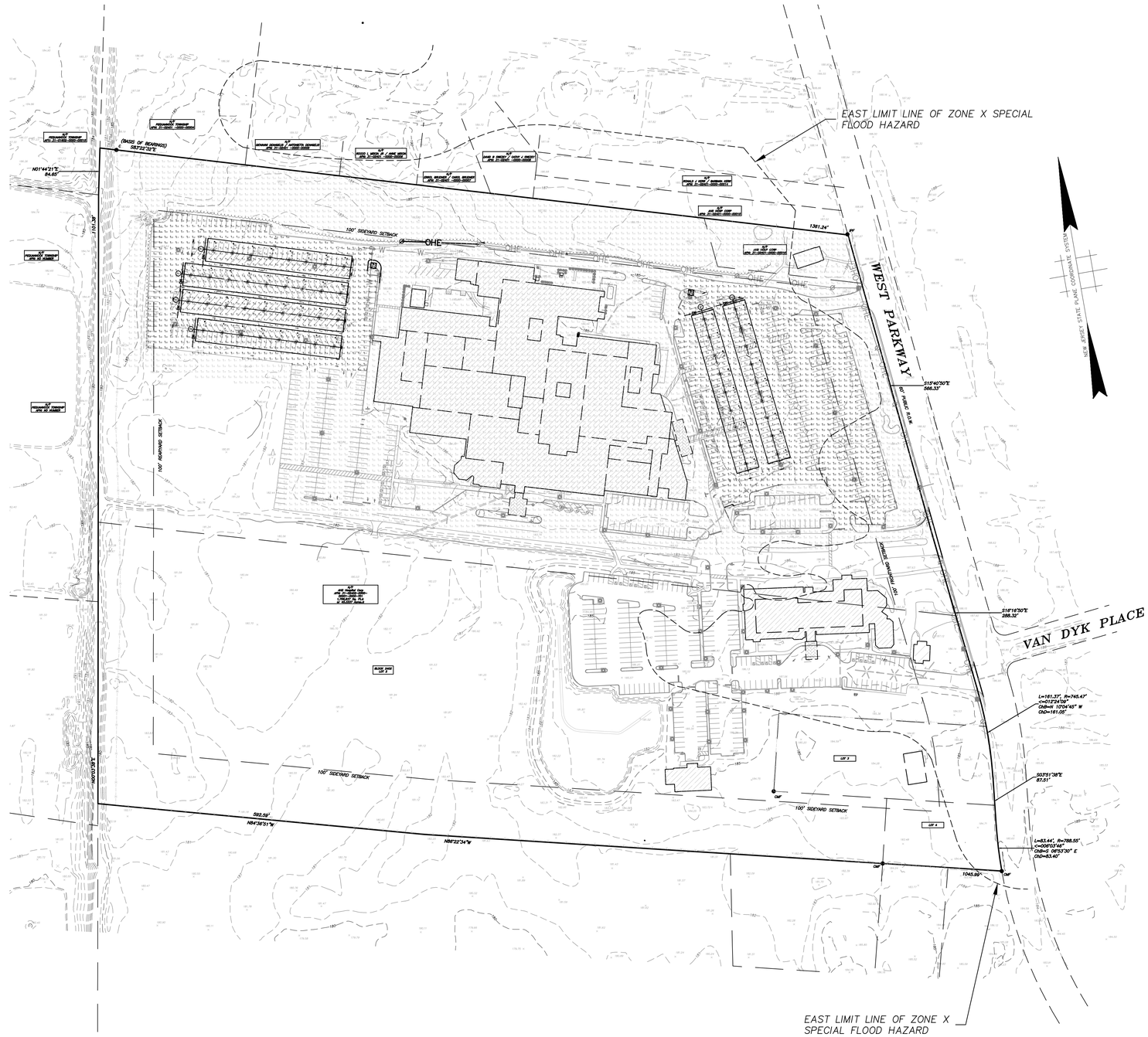
* RAB Lighting Inc. luminaire and product designs are protected under U.S. and International intellectual property laws. Patents issued or pending apply.

NOTES:

1. SOLAR CARPORT ARRAY DESIGN TAKEN FROM PLANS ENTITLED "CHILTON HEALTH MEDICAL CENTER, SITE PLAN – PV ARRAY LAYOUT", PREPARED BY PARASOL STRUCTURES, DATED AUGUST 19, 2021.

2. LIGHTING PLANS AND NOTES TAKEN FROM "AHS–CHILTON MEDICAL CENTER, LIGHTING LAYOUT, VERSION B" DONE BY RAB, DATED AUGUST 16, 2021.

3. THE LIGHT LEVELS DEPICTED ARE FOR THE SOLAR ARRAY UNDERLIGHTING ONLY. THE EXISTING SITE LIGHTING IS ASSUMED TO MEET HOSPITAL AND MUNICIPAL STANDARDS AS PREVIOUSLY APPROVED. THE RESULTING LIGHTING THAT COMBINES THE EXISTING LIGHTING TO REMAIN; THE RELOCATED LIGHTING; AND THE PROPOSED SOLAR ARRAY UNDERLIGHTING; WILL MEET OR EXCEED THE EXISTING LIGHTING LEVELS AND WILL BE WITHIN THE MUNICIPAL LIGHTING REQUIREMENTS. CARE HAS BEEN TAKEN TO RELOCATE EXISTING SITE LIGHTING SUCH THAT THE ADJOINING RESIDENTIAL PROPERTIES ARE NOT NEGATIVELY IMPACTED BY THE SOLAR LIGHTING OR THE RELOCATED SITE LIGHTING. THE RELOCATED SITE LIGHTING ADJACENT TO THE NORTHERLY RESIDENTIAL PROPERTY LINE WILL HAVE "HOUSE SIDE SHIELDS" INSTALLED. THE APPLICANT PROPOSES TO PERFORM LIGHT LEVEL MEASUREMENTS IMMEDIATELY AFTER CONSTRUCTING THE SOLAR ARRAY LIGHTING AND RELOCATED SITE LIGHTING TO CONFIRM/VERIFY LIGHT LEVEL CONDITIONS RESULTING FROM THESE PROPOSED IMPROVEMENTS ARE WITHIN ACCEPTABLE MUNICIPAL LIGHTING STANDARDS.



Calculation Summary											
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Description	PtSpcLr	PtSpcTb	Meter Type
East Parking	Illuminance	Fc	0.44	1.7	0.0	N.A.	N.A.	readings taken at grade	10	10	Horizontal
Site	Illuminance	Fc	0.00	0.8	0.0	N.A.	N.A.	readings taken at grade	10	10	Horizontal
West Parking	Illuminance	Fc	1.02	2.0	0.0	N.A.	N.A.	readings taken at grade	10	10	Horizontal
East Parking - Under Canopy	Illuminance	Fc	1.23	1.7	0.2	6.15	8.50	Stat area			
West Parking - Under Canopy	Illuminance	Fc	1.58	2.0	0.2	7.90	10.00	Stat area			

Luminaire Schedule							
Symbol	Qty	Tag	Label	Arrangement	LLF	Description	BUG Rating
	52	A	PRT30Y	SINGLE	1.000	Surface mounted to cross beam	B2-U4-G2

100 75 50 25 0 100 200 300
GRAPHIC SCALE
1 inch=100 feet

NO.	DATE	REVISION	DRAWN	CHK'D	REL'D
1.	10/15/2021	REVISED PER COMPLETENESS REVIEW	MS	PS	JS

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WILLIAM McCOLLUM, L.L.A.
NJ LICENSED LANDSCAPE ARCHITECT Lic. No. 21AS00105800
611 Industrial Way West
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NJ Certificate of Authorization No. 24GA28222900
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Date	Scale:(H) 1"=100' (V) N/A	Drawn	Designed	Checked	Released
08/19/2021		MS	WM	PS	JS

LIGHTING PLAN
MAJOR SITE PLAN
SOLAR CARPORTS FOR CHILTON MEDICAL CENTER
PEQUANNOCK TOWNSHIP
BLOCK 2401, LOTS 15 & 16; BLOCK 2402, LOTS 1–4

SITUATED IN
PEQUANNOCK TOWNSHIP, MORRIS COUNTY, NEW JERSEY

Job No.	Drawer Number	Drawing Name:	
003-20-003	000-000	06-LIGHTING.dwg	8 OF 12

Plotted:10/14/21 5:56 PM, By: mauer
File: S:\Projects\003-20-003 ATLANTIC HEALTH SYSTEM\003 – 20-003 Chilton Medical Center\Plan\Dwg\06-LIGHTING.dwg, ---> 08-LIGHTING
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EAST LIMIT LINE OF ZC
FLOOD HAZARD

N/F PEQUANNOCK TOWNSHIP APN: 31-01602-0000-00015

N/F PEQUANNOCK TOWNSHIP APN: 31-02401 -0000-00004

N/F GIOVANNI DEANGELIS / ANTONIETTA DEANGELIS APN: 31-02401 -0000-00005

N/F ROCCO L MISCIA JR / ANNE MISCIA APN: 31-02401 -0000-00006

N/F DAVID B SWEZEY / CATHY J SWEZEY APN: 31-02401 -0000-00008

N/F ERROL BRUDNER / CAROL BRUDNER APN: 31-02401 -0000-00007

N/F RONALD J KERR / BARBARA KERR APN: 31-02401-0000-00014

N/F AHS HOSP CORP APN: 31-02401-0000-00015

N/F AHS HOSP CORP APN: 31-02401-0000-00016

N/F PEQUANNOCK TOWNSHIP APN: NO NUMBER

N/F PEQUANNOCK TOWNSHIP APN: NO NUMBER

(BASIS OF BEARINGS) S83°22'32"E

N01°44'21"E 84.65'

1101.38'

1361.24'

IPF

S15°40'50"E 566.33'

WEST PARKWAY

60' PUBLIC R.O.W.

100' SIDEYARD SETBACK

100' REARYARD SETBACK

100' FRONTYARD SETBACK

INSET

LIMIT OF DISTURBANCE

INLET PROTECTION (TYP.)

SOLAR CARPORT GUTTER (TYP.)

SUPPORT COLUMN (TYP.)

SOLAR CARPORT (TYP.)

CONSTRUCTION LAYDOWN/ STAGING AREA

LINE INVERTER (TYP.)

LINE INVERTER & EV CHARGING STATION (TYP.)

LIMIT OF DISTURBANCE (TYP.)

TOTAL LIMIT OF DISTURBANCE : 7,002± SF

APPROX. LIMITS OF STORMWATER RETENTION FACILITY

137.8'

147.1'

53.3'

81.7'

208.9'

TYPICAL LIMIT OF DISTURBANCE AREA(S) FOR ILLUSTRATIVE PURPOSES

LIMIT OF DISTURBANCE FOR BUBBLER AND FOUNDATION (TYP.)

LIMIT OF DISTURBANCE FOR 2' WIDE STORM AND ELECTRIC TRENCHES (TYP.)

182.84

DOWNSPOUT (TYP.)

GUTTER LINE

BUBBLER (TYP.)

INSET (1"=10')

NOTE: SOLAR CARPORT ARRAY DESIGN TAKEN FROM PLANS ENTITLED "CHILTON HEALTH MEDICAL CENTER, SITE PLAN – PV ARRAY LAYOUT", PREPARED BY PARASOL STRUCTURES, DATED AUGUST 19, 2021.

50 40 30 20 10 0 50 100 150

GRAPHIC SCALE
1 inch=50 feet

NO.	DATE	REVISION	DRAWN	CHK'D	REL'D
1.	10/15/2021	REVISED PER COMPLETENESS REVIEW	MS	PS	JS

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JEFFREY C. SZABO, P.E.
NJ PROFESSIONAL ENGINEER Lic. No. 24GE04457700

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Eatontown, NJ 07724
NJ Certificate of Authorization No. 24GA28222900

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WWW.PARTNERESI.COM

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08/19/2021		MS	JS	PS	JS

SOIL EROSION AND SEDIMENT CONTROL PLAN
MAJOR SITE PLAN
SOLAR CARPORTS FOR CHILTON MEDICAL CENTER
PEQUANNOCK TOWNSHIP
BLOCK 2401, LOTS 15 & 16; BLOCK 2402, LOTS 1-4

SITUATED IN
PEQUANNOCK TOWNSHIP, MORRIS COUNTY, NEW JERSEY

Job No.	Drawer Number	Drawing Name:	
003-20-003	000-000	07-SESC.dwg	9 OF 13

Plotted:10/14/21 - 5:37 PM By msun
File:J:\003-20-003 CHILTON HEALTH MEDICAL CENTER\Plan\Dwg\07-SESC.dwg, ----> 09-SESC
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MORRIS COUNTY SOIL CONSERVATION DISTRICT SOIL EROSION AND SEDIMENT CONTROL NOTES

JANUARY 2015

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AND WILL BE IN PLACE PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN FOURTEEN (14) DAYS AND NOT SUBJECT TO CONSTRUCTIONAL TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR HAY AND TACKED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS, SEE NOTE 22 BELOW.
3. PERMANENT VEGETATION IS TO BE ESTABLISHED ON EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH IS TO BE USED FOR PROTECTION UNTIL VEGETATION IS ESTABLISHED. SEE NOTE 23 BELOW.
4. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS (STEEP SLOPES, SANDY SOILS, WET CONDITIONS) SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN ACCORDANCE WITH NOTE 22 BELOW.
5. TEMPORARY DIVERSION BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS. SEE THE DIVERSION DETAIL.
6. PERMANENT SEEDING AND STABILIZATION TO BE IN ACCORDANCE WITH THE STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION. SPECIFIED RATES AND LOCATIONS SHALL BE ON THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.
7. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SO THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
8. ALL SEDIMENTATION STRUCTURES (SILT FENCE, INLET FILTERS, AND SEDIMENT BASINS) WILL BE INSPECTED AND MAINTAINED DAILY.
9. STOCKPILES SHALL NOT BE LOCATED WITHIN 50 OF A FLOODPLAIN, SLOPE, DRAINAGE FACILITY, OR ROADWAY. ALL STOCKPILES BASES SHALL HAVE A SILT FENCE PROPERLY ENTRENCHED AT THE TOE OF SLOPE.
10. A STABILIZED CONSTRUCTION ACCESS WILL BE INSTALLED, WHENEVER AN EARTHEN ROAD INTERSECTS WITH A PAVED ROAD. SEE THE STABILIZED CONSTRUCTION ACCESS DETAIL AND CHART FOR DIMENSIONS.
11. ALL NEW ROADWAYS WILL BE TREATED WITH SUITABLE SUB BASE UPON ESTABLISHMENT OF FINAL GRADE ELEVATIONS.
12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
13. BEFORE DISCHARGE POINTS BECOME OPERATIONAL, ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AS REQUIRED.
14. ALL DEWATERING OPERATIONS MUST BE DISCHARGED DIRECTLY INTO A SEDIMENT FILTER AREA. THE FILTER SHOULD BE COMPOSED OF A FABRIC OR APPROVED MATERIAL. SEE THE DEWATERING DETAIL.
15. ALL SEDIMENT BASINS WILL BE CLEANED WHEN THE CAPACITY HAS BEEN REDUCED BY 50%. A CLEAN OUT ELEVATION WILL BE IDENTIFIED ON THE PLAN AND A MARKER INSTALLED ON THE SITE.
16. DURING AND AFTER CONSTRUCTION, THE APPLICANT WILL BE RESPONSIBLE FOR THE MAINTENANCE AND UPKEEP OF THE DRAINAGE STRUCTURES, EROSION CONTROL AND ANY OTHER MEASURES THAT WERE INSTALLED ON THE DISTRICT. SAID RESPONSIBILITY WILL END WHEN COMPLETED WORK IS APPROVED BY THE MORRIS COUNTY SOIL CONSERVATION DISTRICT.
17. ALL TREES OUTSIDE THE DISTURBANCE LIMIT INDICATED ON THE SUBJECT PLAN OR THOSE TREES WITHIN THE A DISTURBANCE AREA WHICH ARE DESIGNATED TO REMAIN AFTER CONSTRUCTION ARE TO BE PROTECTED WITH TREE PROTECTION DEVICES. SEE THE TREE PROTECTION DETAIL.
18. THE MORRIS COUNTY SOIL CONSERVATION DISTRICT MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON SITE OR OFF SITE EROSION PROBLEMS DURING CONSTRUCTION.
19. THE MORRIS COUNTY SOIL CONSERVATION DISTRICT MUST BE NOTIFIED, IN WRITING, AT LEAST 48 HOURS PRIOR TO ANY LAND DISTURBANCE, AND A PRE–CONSTRUCTION MEETING HELD.
20. CONTRACTOR TO SET UP A MEETING WITH THE INSPECTOR FOR PERIODIC INSPECTIONS OF THE TEMPORARY SEDIMENT BASIN PRIOR TO AND DURING ITS CONSTRUCTION.
21. TOPSOIL STOCKPILE PROTECTION
   a) APPLY GROUND LIMESTONE AT A RATE OF 90 LBS PER 1000 SQ. FT.
   b) APPLY FERTILIZER (10–20–10) AT A RATE OF 11 LBS. PER 1000 SQ. FT.
   c) APPLY PERENNIAL RYEGRASS SEED AT 1 LB. PER 1000 SQ. FT.
   d) MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 2 BALES PER 1000 SQ. FT.
   e) APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.
   f) APPLY SILT FENCE AT THE BOTTOM OF THE STOCKPILE.
22. TEMPORARY STABILIZATION SPECIFICATIONS
   a) APPLY GROUND LIMESTONE AT A RATE OF 90 LBS PER 1000 SQ. FT.
   b) APPLY FERTILIZER (10–20–10) AT A RATE OF 11 LBS. PER 1000 SQ. FT.
   c) APPLY PERENNIAL RYEGRASS SEED AT 1 LB. PER 1000 SQ. FT.
   d) MULCH DISTURBED SOIL WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1000 SQ. FT.
   e) APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.
23. PERMANENT STABILIZATION SPECIFICATIONS
   a) APPLY TOPSOIL TO A DEPTH OF 5 INCHES (UNSETTLED).
   b) APPLY GROUND LIMESTONE AT A RATE OF 90 LBS PER 1000 SQ. FT. AND WORK FOUR INCHES INTO SOIL.
   c) APPLY FERTILIZER (10–20–10) AT A OF RATE 11 LBS. PER 1000 SQ. FT.
   d) APPLY HARDY FESCUE SEED AT 2.7 LBS. PER 1000 SQ. FT. AND CREEPING RED FESCUE SEED AT 0.7 LBS PER 1000 SQ. FT. AND PERENNIAL RYEGRASS SEED AT 0.3 LBS PER 1000 SQ. FT.
   e) MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1000 SQ. FT.
   f) APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.

*NOTE: 48 HOURS PRIOR TO ANY SOIL DISTURBANCE, NOTICE IN WRITING, SHALL BE GIVEN TO THE MORRIS COUNTY SOIL CONSERVATION DISTRICT AND A PRE–CONSTRUCTION MEETING HELD.

CONSTRUCTION SEQUENCE

ITEMS AND DURATIONS OF CONSTRUCTION WILL OCCUR APPROXIMATELY AS FOLLOWS:

PHASE	DURATION
1. TEMPORARY SOIL EROSION FACILITIES	IMMEDIATELY
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE	IMMEDIATELY
3. INSTALL SILT FENCE	IMMEDIATELY
4. INLET PROTECTION	IMMEDIATELY
5. DEMOLITION	1 WEEKS
6. TEMPORARY SEEDING *	IMMEDIATELY
7. CONSTRUCTION OF CARPORTS	4 WEEKS
8. MAINTENANCE OF TEMPORARY EROSION CONTROL MEASURES	CONTINUOUSLY
9. FINAL SEEDING AND LANDSCAPING	1 WEEK

* TEMPORARY SEEDING SHALL ALSO BE PERFORMED WHEN NECESSARY IN ACCORDANCE WITH NOTE NO. 2 OF THE SOIL EROSION AND SEDIMENT CONTROL NOTES.

NOTES FOR ROAD WORK

1. THE CONTRACTOR SHALL PREPARE A PLAN FOR THE PROPER DEWATERING OF EACH STREAM CROSSING PRIOR TO EXCAVATING THE STREAM BED. PLAN SHALL BE FORWARDED TO THE ENGINEER AND MORRIS COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL. THE DISTRICT SHALL BE NOTIFIED FOR INSPECTION PRIOR TO EACH STREAM CROSSING CONSTRUCTION.
2. ANY. AREAS USED FOR THE CONTRACTOR'S STAGING, INCLUDING BUT LIMITED TO, TEMPORARY STORAGE OF STOCKPILED MATERIALS (E.G. CRUSHED STONE, QUARRY PROCESS STONE, SELECT FILL, EXCAVATED MATERIALS, ETC.), SHALL BE ENTIRELY PROTECTED BY A SILT FENCE ALONG THE LOW ELEVATION SIDE TO CONTROL SEDIMENT RUNOFF.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE MORRIS COUNTY SOIL CONSERVATION DISTRICT OF ANY STAGING AND/OR STOCKPILE LOCATION AREAS AND FOR OBTAINING A SOIL EROSION AND SEDIMENT CONTROL CERTIFICATION FOR THESE AREAS.
4. A CRUSHED STONE, VEHICLE WHEEL–CLEANING BLANKET SHALL BE INSTALLED AT THE CONTRACTOR'S STAGING YARD AND/OR STOCKPILE AREAS TO PREVENT OFF–SITE TRACING OF SEDIMENT BY CONTRACTION VEHICLES ONTO PUBLIC ROADS. BLANKET SHALL BE 15 FT. x 50 FT. x 6 IN. (MINIMUM), CRUSHED STONE 2–1/2 INCHES IN DIAMETER. SAID BLANKET SHALL BE UNDERLAIN WITH A SUITABLE SYNTHETIC FILTER FABRIC AND MAINTAINED IN GOOD ORDER.

SPPP REPORT INSPECTIONS AND REPORTS

1. ROUTINE INSPECTIONS
   A. THE PERMITTEE SHALL CONDUCT AND DOCUMENT ROUTINE INSPECTIONS OF THE FACILITY TO IDENTIFY AREAS CONTRIBUTING TO THE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT AND EVALUATE WHETHER THE STORMWATER POLLUTION PREVENTION PLAN (SPPP) IDENTIFIED UNDER E.1 OF THE SC3–CONSTRUCTION ACTIVITY STORMWATER (GP) PART 1 NARRATIVE REQUIREMENTS, INCLUDING THIS SOIL EROSION AND SEDIMENT CONTROL PLAN IS BEING PROPERLY IMPLEMENTED AND MAINTAINED, OR WHETHER ADDITIONAL MEASURES ARE NEEDED TO IMPLEMENT THE SPPP. (ROUTINE INSPECTIONS MINIMUM WEEKLY).
   B. OTHER RECORD–KEEPING REQUIREMENTS

   THE CONTRACTOR SHALL KEEP THE FOLLOWING RECORDS RELATED TO CONSTRUCTION ACTIVITIES AT THE SITE:
   - DATES WHEN MAJOR GRADING ACTIVITIES OCCUR AND THE AREAS WHICH WERE GRADED
   - DATES AND DETAILS CONCERNING THE INSTALLATION OF STRUCTURAL CONTROLS
   - DATES WHEN CONSTRUCTION ACTIVITIES CEASE IN AN AREA
   - DATES WHEN AN AREA IS STABILIZED, EITHER TEMPORARILY OR PERMANENTLY
   - DATES OF RAINFALL AND THE AMOUNT OF RAINFALL
   - DATES AND DESCRIPTIONS OF THE CHARACTER AND AMOUNT OF ANY SPILLS OF HAZARDOUS MATERIALS
   - RECORDS OF REPORTS FILED WITH REGULATORY AGENCIES IF REPORTABLE QUANTITIES OF HAZARDOUS MATERIALS SPILLED
   – A VISIBLE SIGN SHALL BE POSTED ON THE SITE TO IDENTIFY THE LOCATION OF SPPP
2. ANNUAL REPORTS AND CERTIFICATIONS.
   A. THE PERMITTEE SHALL PREPARE AN ANNUAL REPORT SUMMARIZING EACH INSPECTION PERFORMED UNDER 1.A ABOVE. THIS REPORT SHALL BE ACCOMPANIED BY AN ANNUAL CERTIFICATION, ON A FORM PROVIDED BY THE NJDEP THAT THE FACILITY IS IN COMPLIANCE WITH ITS SPPP AND THIS PERMIT, EXCEPT THAT IF THERE ARE ANY INCIDENTS OF NONCOMPLIANCE, THOSE INCIDENTS SHALL BE IDENTIFIED IN THE CERTIFICATION. IF THERE ARE INCIDENTS OF NONCOMPLIANCE, THE REPORT OF CONTAINERS FOR WHICH THERE IS BEING TAKEN TO REMEDIFY THE NONCOMPLIANCE AND TO PREVENT SUCH INCIDENTS FROM RECURRING. THE REPORT AND CERTIFICATION SHALL BE SIGNED BY THE OWNER OR OPERATOR IN ACCORDANCE WITH N.J.A.C. 7:14A–4.9. AND SHALL BE MAINTAINED FOR A PERIOD OF AT LEAST FIVE YEARS OF ACCOMPANYING THE SPPP. (INSPECTIONS AND RECORD KEEPING. THIS PERIOD MAY BE EXTENDED BY WRITTEN REQUEST FROM THE DEPARTMENT AT ANY TIME (SEE N.J.A.C. 7:14A–6.6)
3. REPORTS OF NONCOMPLIANCE
   A. ALL INSTANCES OF NONCOMPLIANCE NOT REPORTED UNDER N.J.A.C. 7:140A–6.10 SHALL BE REPORTED TO THE DEPARTMENT ANNUALLY.
4. NOTIFICATION OF COMPLETION
   A. THE SOIL CONSERVATION DISTRICT WILL PROVIDE THE DEPARTMENT A COPY OF THE REPORT OF COMPLIANCE ISSUED UNDER N.J.A.C. 2:90–1 FOR COMPLETED CONSTRUCTION ACTIVITIES, EXCEPT SINGLE FAMILY HOME CONSTRUCTION UNDER B. BELOW. THE REPORT OF COMPLIANCE SHALL SERVE AS THE NOTIFICATION OF COMPLETION.
   B. THE BUILDER OF A SINGLE FAMILY HOME THAT IS AUTHORIZED UNDER THIS PERMIT, BUT NOT WITHIN THE DEFINITION OF "PHASE" AT N.J.S.A. 4:24–41G, SHALL SEND A COPY OF THE FINAL CERTIFICATE OF OCCUPANCY TO THE SOIL CONSERVATION DISTRICT. THE SOIL CONSERVATION DISTRICT WILL PROVIDE A COPY OF THE FINAL CERTIFICATION OF OCCUPANCY TO THE DEPARTMENT, WHICH WILL SERVE AS NOTIFICATION OF COMPLETION.
   C. THE DOT SHALL PROVIDE WRITTEN NOTIFICATION TO THE DEPARTMENT WHEN DOT CERTIFIED PROJECTS ARE COMPLETED.

MITIGATION NOTES FOR ACIDIC SOIL

1. LIMIT THE EXCAVATION AREA AND EXPOSURE TIME WHEN HIGH ACID–PRODUCING SOILS ARE ENCOUNTERED.
2. TOPSOIL STRIPPED FROM THE SITE SHALL BE STORED SEPARATELY FROM TEMPORARY STOCKPILES OF ACID–PRODUCING SOILS.
3. STOCKPILES OF HIGH ACID–PRODUCING SOIL SHOULD BE LOCATED ON LEVEL LAND TO MINIMIZE ITS MOVEMENT, ESPECIALLY WHEN THIS MATERIAL HAS A HIGH CLAY CONTENT.
4. TEMPORARILY STOCKPILED HIGH ACID–PRODUCING SOIL MATERIAL TO BE STORED MORE THAN 48 HOURS SHOULD BE COVERED WITH PROPERLY ANCHORED, HEAVY GRADE SHEETS OF POLYETHYLENE WHERE POSSIBLE. IF NOT POSSIBLE, STOCKPILES SHALL BE COVERED WITH A MINIMUM OF 3 TO 6 INCHES OF WOOD CHIPS TO MINIMIZE EROSION OF THE STOCKPILE. SILT FENCE SHALL BE INSTALLED AT THE TOE OF THE SLOPE TO CONTAIN MOVEMENT OF THE STOCKPILED MATERIAL TOPSOIL SHALL NOT BE APPLIED TO THE STOCKPILES TO PREVENT TOPSOIL CONTAMINATION WITH HIGH ACID–PRODUCING SOIL.
5. HIGH ACID–PRODUCING SOILS WITH A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE (INCLUDING BORROW FROM CUTS OR DREDGED SEDIMENT) SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS PER ACRE (OR 450 POUNDS PER 1,000 SQUARE FEET OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12 INCHES OF SETTLED SOIL WITH A PH OF 5.0 OR MORE EXCEPT AS FOLLOWS:
   a. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF 24 INCHES OF SOIL WITH A PH OR 5 OR MORE.
   b. DISPOSAL AREAS SHALL NOT BE LOCATED WITHIN 24 INCHES OF ANY SURFACE OF A SLOPE OR BANK, SUCH AS BERMS, STREAM BANKS, DITCHES, AND OTHERS, TO PREVENT POTENTIAL LATERAL LEACHING DAMAGES.
6. EQUIPMENT USED FOR MOVEMENT OF HIGH ACID–PRODUCING SOILS SHOULD BE CLEANED AT THE END OF EACH DAY TO PREVENT SPREADING OF HIGH ACID–PRODUCING SOIL MATERIALS TO OTHER PARTS OF THE SITE, INTO STREAMS OR STORMWATER CONVEYANCES, AND TO PROTECT MACHINERY FROM ACCELERATED RUSTING.
7. NON–VEGETATIVE EROSION CONTROL PRACTICES (STONE TRACKING PADS, STRATEGICALLY PLACED LIMESTONE CHECK DAM, SEDIMENT BARRIER, WOOD CHIPS) SHOULD BE INSTALLED TO LIMIT THE MOVEMENT OF HIGH ACID–PRODUCING SOILS FROM, AROUND, OR OFF THE SITE.
8. FOLLOWING BURIAL OR REMOVAL OF HIGH ACID–PRODUCING SOIL, TOPSOILING AND SEEDING OF THE SITE (SEE TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION, PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, AND TOPSOILING). MONITORING MUST CONTINUE FOR A MINIMUM OF 6 MONTHS TO ENSURE THERE IS ADEQUATE STABILIZATION AND THAT NO HIGH ACID–PRODUCING SOIL PROBLEMS EMERGE. IF PROBLEMS STILL EXIST, THE AFFECTED AREA MUST BE TREATED AS INDICATED ABOVE TO CORRECT THE PROBLEM.

CONSTRUCTION SITE WASTE CONTROL COMPONENT OF THE STORMWATER POLLUTION PREVENTION PLAN (SPPP)

CHAPTER FOR CONSTRUCTION WASTE–06.15

1. THE CONSTRUCTION SITE WASTE CONTROL COMPONENT OF THE SPPP CONSISTS OF THE REQUIREMENTS IN 2., 3., AND 4. BELOW. THESE REQUIREMENTS BECOME OPERATIVE ON MARCH 3, 2004 AND APPLY ONLY TO CONSTRUCTION ACTIVITIES THAT COMMENCE ON OR AFTER MARCH 3, 2004. PUBLIC PROJECTS THAT HAVE GONE OUT FOR BID OR HAVE BEEN AWARDED A CONTRACT PRIOR TO MARCH 3, 2004 OR ACTIVITIES THAT IMPLEMENTED THE NEW REQUIREMENTS FOR CONSTRUCTION SITE WASTE MANAGEMENT, CONSTRUCTION ACTIVITIES THAT COMMENCED PRIOR TO MARCH 3, 2004 BUT FOR WHICH THE PERMITTEE ON OR APPROVAL FROM EXEMPT MUNICIPALITY) REQUIRED UNDER THE SOIL EROSION AND SEDIMENT CONTROL ACT ARE NOT EXPIRED OR EXPIRE WITHIN 180 DAYS OF THE EFFECTIVE DATE OF THIS SECTION ANY OTHER NEW CONSTRUCTION ACTIVITY FOR WHICH AN RFA IS SUBMITTED ON OR AFTER MARCH 3, 2004 OR WHICH RECEIVE AUTOMATIC RENEWAL OF AUTHORIZATION UNDER THIS PERMIT AFTER MARCH 3, 2004 ALSO SHALL COMPLY WITH THESE REQUIREMENTS.
2. MATERIAL MANAGEMENT TO PREVENT OR REDUCE WASTE – ANY PESTICIDES, FERTILIZERS, FUELS, LUBRICANTS, PETROLEUM PRODUCTS, ANTI–FREEZE, PAINTS AND PAINT THINNERS, CLEANING SOLVENTS AND ACIDS, DETERGENTS, CHEMICAL ADDITIVES, AND CONCRETE CURING COMPOUNDS SHALL BE STORED IN CONTAINERS IN A DRY COVERED AREA. MANUFACTURERS' RECOMMENDED APPLICATION RATES, USES, AND METHODS SHALL BE STRICTLY FOLLOWED TO THE EXTENT NECESSARY TO PREVENT MINIMIZE THE PRESENCE OF WASTE FROM SUCH MATERIALS IN THE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT. (THE PRECEDING SENTENCE DOES NOT APPLY TO ANY RECOMMENDATIONS ABOUT APPROPRIATE AMOUNTS FERTILIZER OR OTHER MATERIAL THAT CONFLICT WITH THE EROSION AND SEDIMENT CONTROL COMPONENT OF THE FACILITY'S SPPP.)
3. WASTE HANDLING – THE FOLLOWING REQUIREMENTS APPLY ONLY TO CONSTRUCTION SITE WASTE THAT HAS THE POTENTIAL TO BE TRANSPORTED BY THE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT. THE HANDLING AT THE CONSTRUCTION SITE OF WASTE BUILDING MATERIAL AND RUBBLE AND OTHER CONSTRUCTION SITE WASTES, INCLUDING LITTER AND HAZARDOUS AND SANITARY WASTES, SHALL CONFORM WITH THE STATE SOLID WASTE MANAGEMENT ACT, NJ.S.A. 13:1E–1 ET SEQ., AND ITS IMPLEMENTING RULES AT N.J.A.C. 7:26, 7:26A, AND 7:26E; THE NEW JERSEY PESTICIDE CONTROL ACT OF 1971 AND THE STATE LITTER STATUTE (N.J.S.A. 13:1E–99.3); AND OSHA REQUIREMENTS FOR SANITATION AT 29 C.F.R. 1926 (EXCEPT WHERE SUCH CONFORMANCE IS NOT RELEVANT TO THE STORMWATER DISCHARGE AUTHORIZED BY THIS PERMIT). CONSTRUCTION SITES SHALL HAVE ONE OR MORE DESIGNATED WASTE COLLECTION AREAS ONSITE OR ADJACENT TO THE SITE, AND AN ADEQUATE NUMBER OF CONTAINERS FOR BUILDING MATERIAL AND RUBBLE BASED ON ESTIMATES SO AS TO PREVENT WASTE MATERIALS FROM OVERFLOWING, LEAKING, OR BLOWING OUT OF THE CONTAINERS. SPILLS, LEAKS, AND OVERFLOWS, WHICH DO OCCUR, SHALL BE CLEANUP IMMEDIATELY.
   A. CONSTRUCTION SITE WASTES INCLUDE BUT ARE NOT LIMITED TO:
      i. "CONSTRUCTION AND DEMOLITION WASTE," AS DEFINED IN N.J.A.C. 7:26–1.4 AS FOLLOWS: "WASTE BUILDING MATERIAL AND RUBBLE RESULTING FROM CONSTRUCTION, REMODELING, REPAIR, AND DEMOLITION OPERATIONS ON HOUSES, COMMERCIAL BUILDINGS, PAVEMENTS, AND OTHER STRUCTURES. THE FOLLOWING MATERIALS MAY BE FOUND IN CONSTRUCTION AND DEMOLITION WASTE: TREATED AND UNTREATED WOOD SCRAP; TREE STUMPS; BRUSH; CONCRETE, ASPHALT, AND PORTLAND CEMENT BLOCKS, AND OTHER MASONRY; PLASTER AND WALLBOARD; ROOFING MATERIALS; CORRUGATED CARDBOARD AND MISCELLANEOUS PAPER; FERROUS AND NON–FERROUS METAL; NON–ASBESTOS BUILDING INSULATION; PLASTIC SCRAP; DIRT, GRAVEL, AND PADDING; GLASS (WINDOW AND DOOR); AND OTHER MISCELLANEOUS MATERIALS; BUT SHALL NOT INCLUDE OTHER SOLID WASTE TYPES."
      ii. ANY WASTE BUILDING MATERIAL AND RUBBLE RESULTING FROM SUCH OPERATIONS THAT IS HAZARDOUS FOR PURPOSES OF N.J.A.C. 7:26G (THE HAZARDOUS WASTE RULES).
      iii. DISCARDED (INCLUDING SPILLED) PESTICIDES, FERTILIZERS, FUELS, LUBRICANTS, PETROLEUM PRODUCTS, ANTI–FREEZE, PAINTS AND PAINT THINNERS, PAINT CHIPS AND SANDBLASTING GRITS, CLEANING SOLVENTS, ACIDS FOR CLEANING MASONRY SURFACES, DETERGENTS, CHEMICAL ADDITIVES, AND FOR SOIL STABILIZATION (E.G., CALCIUM CHLORIDE), AND CONCRETE CURING COMPOUNDS.
      iv. OTHER "LITTER," AS DEFINED AT N.J.S.A. 13:1E–215.D AS FOLLOWS: "ANY USED OR UNCONSUMED SUBSTANCE THAT IS PART OF THE ACCUMULATION OF DEBRIS DISCARDED WHETHER MADE OF ALUMINUM, GLASS, PLASTIC, RUBBER, PAPER, OR OTHER NATURAL OR SYNTHETIC MATERIALS, OR COMBINATION THEREOF, INCLUDING, BUT NOT LIMITED TO, ANY BOTTLE, JAR OR CAN, OR ANY PLASTIC CUP OR DETACHABLE TAB OF ANY BOTTLE, JAR OR CAN, ANY CIGARETTE, CIGAR, MATCH, CHEWING GUM, OR ANY FLAMING OR GLOWING MATERIAL OR ANY GARBAGE, TRASH, REFUSE, DEBRIS, RUBBISH, ASHES, GLASS CLIPPINGS OR ANY LAWN OR GARDEN WASTE, NEWSPAPERS, MAGAZINES, GLASS, METAL, PLASTIC OR PAPER CONTAINERS OR OTHER PACKAGING OR CONSTRUCTION MATERIAL, BUT DOES NOT INCLUDE THE WASTE OF THE PRIMARY PROCESSES OF MINING OR OTHER EXTRACTION PROCESSES, LOGGING, SAWMILLING, FARMING OR MANUFACTURING."
   V. SANITARY SEWAGE AND SEPTIC
   VI. CONTAMINATED SOILS ENCOUNTERED OR DISCOVERED DURING EARTHMOVING ACTIVITIES OR DURING THE CLEANUP OF A LEAK OR DISCHARGE OF A HAZARDOUS SUBSTANCE.
   B. CONCRETE WASHOUT – CONCRETE WASHOUT ONSITE IS PROHIBITED OUTSIDE DESIGNATED AREAS. WASHOUT ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, THE WASHING OF TRUCKS, CHUTES, HOSES, MIXERS, HOPPERS, AND TOOLS.
      i. DESIGNATED WASHOUT AREAS SHALL BE LINED AND BERMED TO PREVENT DISCHARGES TO SURFACE AND GROUND WATER.
      ii. HARDENED CONCRETE FROM THE DESIGNATED WASHOUT SHALL BE REMOVED AND PROPERLY DISPOSED OF.
   C. SANITARY SEWAGE/SEPTIC DISPOSAL – DISCHARGES OF RAW SANITARY SEWAGE OR SEPTAGE ONSITE ARE STRICTLY PROHIBITED. ADEQUATE FACILITIES WITH PROPER DISPOSAL SHALL BE PROVIDED AND MAINTAINED ONSITE OR ADJACENT TO THE SITE FOR ALL WORKERS AND OTHER SANITARY NEEDS.
4. SPILLS; DISCHARGES OF HAZARDOUS SUBSTANCES; FEDERALLY REPORTABLE RELEASES.
   A. SPILL KITS SHALL BE AVAILABLE ONSITE OR ADJACENT TO THE SITE FOR ANY MATERIALS THAT ARE LISTED IN 2. ABOVE AND USED OR APPLIED ONSITE. ALL SPILLS OF SUCH MATERIAL SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY. CLEANED UP MATERIALS SHALL BE PROPERLY DISPOSED OF.
   B. DISCHARGES OF HAZARDOUS SUBSTANCES (AS DEFINED IN N.J.A.C. 7:1E–1.6) IN CONSTRUCTION SITE WASTES ARE SUBJECT TO THE PROVISIONS OF THE SPILL COMPENSATION AND CONTROL ACT, N.J.S.A. 58:10–23.11 ET SEQ., AND OF DEPARTMENT RULES FOR DISCHARGES OF PETROLEUM AND OTHER HAZARDOUS SUBSTANCES AT N.J.A.C. 7:1E. NO DISCHARGE OF HAZARDOUS SUBSTANCES RESULTING FROM AN ONSITE SPILL SHALL BE DEEMED TO BE "PURSUANT TO AND IN COMPLIANCE WITH [THIS] PERMIT" WITHIN THE MEANING OF THE SPILL COMPENSATION AND CONTROL ACT AT N.J.S.A. 58:10–23.11C.
   C. RELEASES IN EXCESS OF REPORTABLE QUANTITIES (RQ) ESTABLISHED UNDER 40 C.F.R. 110, 117, AND 302 THAT OCCUR WITHIN A 24–HR PERIOD MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER (800 424–8802).

DUST CONTROL NOTE

DUST GENERATION SHALL BE CONTROLLED ON A CONSTANT BASIS BY WETTING THE SURFACE AND/OR APPLICATION OF CALCIUM CHLORIDE

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GAL/ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM) – SPRAY ON	Apply according to manufacturer's instructions. May also be used as an additive to sediment basins to flocculate and precipitate suspended colloids. See Sediment Basin standard, p. 26–		
POLYACRYLAMIDE (PAM) – DRY SPREAD			
ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1200

ADDITIONAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION. THE PROPERTY OWNERS SHALL ASSUME THIS RESPONSIBILITY AFTER CONSTRUCTION IS COMPLETED AND CERTIFICATES OF OCCUPANCY ARE ISSUED.
2. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.
3. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE ROADWAYS CLEAN AT ALL TIMES. ANY SEDIMENT SPILLED OR TRACKED ON THE ROADWAY WILL BE CLEANED UP IMMEDIATELY, OR AT MINIMUM, BY THE END OF EACH WORK DAY.
4. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON INDIVIDUAL SITES SHALL APPLY TO ANY SUBSEQUENT OWNERS.
5. STEEP SLOPES TO RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR SUITABLE EQUAL. (SEE ANCHORING NOTES AND SOIL EROSION & SEDIMENT CONTROL NOTES.)

STANDARD FOR STABILIZATION WITH MULCH ONLY

STABILIZING EXPOSED SOILS WITH NON–VEGETATIVE MATERIALS EXPOSED FOR PERIODS LONGER THAN 14 DAYS.

PURPOSE

TO PROTECT EXPOSED SOIL SURFACES FROM EROSION DAMAGE AND TO REDUCE OFFSITE ENVIRONMENTAL DAMAGE.

WATER QUALITY ENHANCEMENT

PROVIDES TEMPORARY MECHANICAL PROTECTION AGAINST WIND OR RAINFALL INDUCED SOIL EROSION UNTIL PERMANENT VEGETATIVE COVER MAY BE ESTABLISHED.

CONDITIONS WHERE PRACTICE APPLIES

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO EROSION, WHERE THE SEASON AND OTHER CONDITIONS MAY NOT BE SUITABLE FOR GROWING AN EROSION–RESISTANT COVER OR WHERE STABILIZATION IS NEEDED FOR A SHORT PERIOD UNTIL MORE SUITABLE PROTECTION CAN BE INSTALLED.

METHODS AND MATERIALS

I. SITE PREPARATION

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.

B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING.

C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.

D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE–STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.

II. PROTECTIVE MATERIALS

A. UNROTTED SMALL–GRAIN STRAW, AT 2.0 TO 2.5 TONS PER ACRE, IS SPREAD UNIFORMLY AT 90 TO 115 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. OTHER SUITABLE MULCHES MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT. THE APPROVED RATES ABOVE HAVE BEEN MET WHEN THE MULCH COVERS THE GROUND COMPLETELY UPON VISUA

PRT30Y/D10

RAB

This ultra high efficiency LED garage light delivers up to 118 lumens per Watt. Available in 30, 42 and 55 Watt versions that replace 70 to 175 Watt metal halide fixtures. Fixture measures 14" L x 14" W.

Color: Bronze

Weight: 10.6 lbs

Project:	**Type:**
Prepared By:	**Date:**

Driver Info

Type	Constant Current
120V	0.25A
208V	0.13A
240V	0.12A
277V	0.11A
Input Watts	29.5W

LED Info

Watts	30W
Color Temp	3000K (Warm)
Color Accuracy	74 CRI
L70 Lifespan	100,000 Hours
Lumens	3,713
Efficacy	125.9 lm/W

Technical Specifications

Compliance

UL Listed:

Suitable for wet locations

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC Listed:

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. DLC Product Code: PRV7WRVH

Construction

Lens:

Frosted polycarbonate

Gaskets:

High-temperature silicone

IP Rating:

Ingress protection rating of IP66 for dust and water

Ambient Temperature:

Suitable for use in up to 40°C (104°F)

Finish:

Formulated for high durability and long-lasting color

Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

Thermal Management:

Superior thermal management with external "Air-Flow" fins

Housing:

Die-cast aluminum and sheetmetal housing. Polycarbonate is affected by cleaning agents or other liquids containing partial solvents such as low molecular weight aldehydes and ethers, ketones, esters, aromatic hydrocarbons and perchlorinated hydrocarbons. Click here for a detailed list of damaging chemicals.

Mounting:

Die-cast aluminum backbox with (4) 1/2" conduit openings with plugs. Hinged tether for easy installation and wiring. Also accomodates 1/2" or 3/4" NPS pendants (provided by others).

Reflector:

Specular polycarbonate

Green Technology:

Mercury and UV free. RoHS-compliant components.

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PRT30Y/D10

RAB

Technical Specifications (continued)

LED Characteristics

LEDs:

Long-life, high-efficacy, surface-mount LEDs

Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability:

LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Performance

Lifespan:

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Other

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Equivalency:

Equivalent to 100W Metal Halide

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Electrical

Drivers:

Constant Current, Class 2 100V - 277V, 50/60 Hz. THD <20%.

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

THD:

7.4% at 120V, 17.1% at 277V

Power Factor:

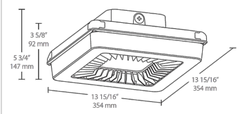
99.2% at 120V, 90.9% at 277V

Sensor Specifications

Handheld Wireless Configuration Tool:

Adjust settings using handheld wireless configuration tool. Only available with 0-10V dimming driver options. Handheld wireless configuration tool available here.

Dimensions



Features

- Ultra-high efficiency
- Pendant or surface mount
- Low glare, vandal-resistant polycarbonate lens
- 20% uplight eliminates "cave effect"
- 100,000-Hour LED lifespan
- 5-Year, No-Compromise Warranty

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PRT30Y/D10

RAB

Ordering Matrix

Family	Wattage	Color Temp	Finish	Driver Options	Sensor Options	Other Options
PRT	30	Y		/D10		
	30 = 30W (14" x 14")	**Blank** = 5000K (Cool)	**Blank** = Bronze	**Blank** = 120-277V On/Off	**Blank** = No Option	**USA** = BAA Compliant
	42 = 42W (14" x 14")	**N** = 4000K (Neutral)	**W** = White	**/480** = 480V On/Off	**/WS** = Multi-Level Motion Sensor for 14'[1]	**Blank** = Standard
	55 = 55W (14" x 14")	**Y** = 3000K (Warm)		**/D10** = 120-277V w/ 0-10V Dimming	**/WS2** = Multi-Level Motion Sensor for 18'[1]	
	70 = 70W (18" x 18")			**/480/D10** = 480V w/ 0-10V Dimming	**/PCS** = 120V Swivel Photocell	
	80 = 80W (18" x 18")			**/E2** = Battery Backup	**/PCS2** = 277V Swivel Photocell	
	105 = 105W (18" x 18")			**/D10/E2** = 0-10V Dimming w/ Battery Backup	**/PCS4** = 480V Swivel Photocell	
					/LC = Lightcloud® Controller	
					/LCS = Lightcloud® Sensor	

[1] Only available for 120-277V with 0-10V dimming driver.

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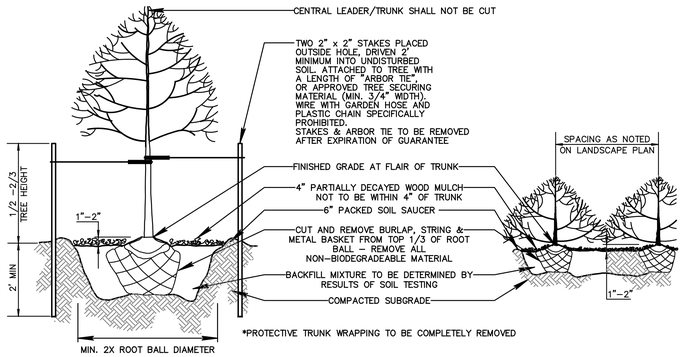
CARPORT CANOPY LED LIGHTING SPECIFICATIONS

NOT TO SCALE

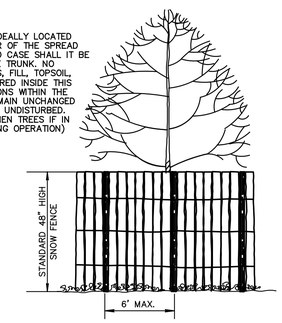


TREE & SHRUB PLANTING & STAKING

NOT TO SCALE

NOTE :

SNOW FENCE SHALL BE IDEALLY LOCATED AT THE OUTER PERIMETER OF THE SPREAD OF THE BRANCHES. IN NO CASE SHALL IT BE CLOSER THAN 10' TO THE TRUNK. NO CONSTRUCTION MATERIALS, FILL, TOPSOIL, SOIL, ETC. SHALL BE STORED INSIDE THIS FENCE. EXISTING ELEVATIONS WITHIN THE FENCING AREA SHALL REMAIN UNCHANGED AND SOIL SHALL BE LEFT UNDISTURBED. (TO BE USED FOR SPECIMEN TREES IF IN THE VICINITY OF CLEARING OPERATION)



TREE PROTECTION

NOT TO SCALE

NO.	DATE	REVISION	DRAWN	CHK'D	REL'D
1.	10/15/2021	REVISED PER COMPLETENESS REVIEW	MS	PS	JS

PARTNER
Engineering and Science, Inc.
(a DBA of Partner Assessment Corp, a NJ Engineering firm)

WILLIAM McCOLLUM, L.L.A.
NJ LICENSED LANDSCAPE ARCHITECT Lic. No. 21AS00105800

611 Industrial Way West
Eatontown, NJ 07724
NJ Certificate of Authorization No. 24GA28222900

Tel.: 732.380.1700
Fax.: 732.380.1701
WWW.PARTNERESI.COM

Date	Scale:(H)	Drawn	Designed	Checked	Released
08/19/2021	(V)	MS	WM	JS	JS

LANDSCAPE AND LIGHTING DETAILS
MAJOR SITE PLAN
SOLAR CARPORTS FOR CHILTON MEDICAL CENTER
PEQUANNOCK TOWNSHIP
BLOCK 2401, LOTS 15 & 16; BLOCK 2402, LOTS 1,2,3,4

SITUATED IN
PEQUANNOCK TOWNSHIP, MORRIS COUNTY, NEW JERSEY

Job No.	Drawer Number	Drawing Name:	
003-20-003	000-000	08-DETAILS.dwg	11 OF 12

Plotted:10/14/21 - 5:38 PM, By: msaul
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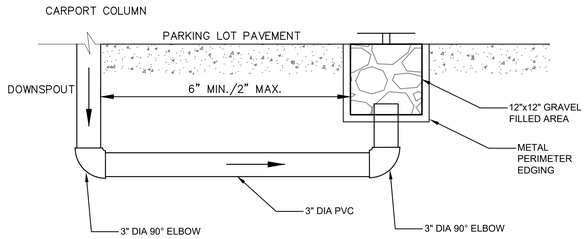


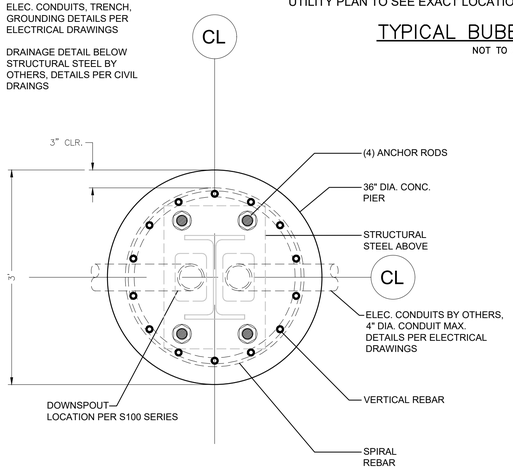
NOTE: BUBBLER DRAIN TO BE USED AT REAR PARKING LOT, WHERE THERE ARE NO NEARBY INLETS TO CONNECT TO. SEE DRAINAGE AND UTILITY PLAN TO SEE EXACT LOCATIONS.

TYPICAL BUBBLER DRAIN

NOT TO SCALE

NOTES:
ELEC. CONDUITS, TRENCH, GROUNDING DETAILS PER ELECTRICAL DRAWINGS

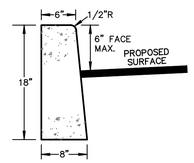
DRAINAGE DETAIL BELOW STRUCTURAL STEEL BY OTHERS, DETAILS PER CIVIL DRAINGS



1 TYP. FOUNDATION PLAN

SCALE: N.T.S.

NOTE: DETAIL BASED UPON PLANS ENTITLED "MORRISTOWN MEDICAL CENTER HEALTH PAVILION, TYP. FOUNDATION" DONE BY PARASOL STRUCTURES, LAST REVISED AUGUST 19, 2021.



NOTES:

1. CONCRETE FOR CURB CONSTRUCTION TO BE AIR ENTRAINED CLASS B PORTLAND CEMENT CONCRETE HAVING A 28-DAY STRENGTH OF 4,500 P.S.I.
2. 1/2" THICK PREFORMED BITUMINOUS JOINT FILLER SHALL BE USED TO CONSTRUCT EXPANSION JOINTS AT 20' O.C.
3. CONSTRUCTION JOINTS SHALL BE CONSTRUCTED AT 20' O.C. AND OFFSET 10' O.C. FROM EXPANSION JOINTS

CONCRETE CURB

NOT TO SCALE

PowerCharge

Energy Commercial Series

The PowerCharge Energy Series is designed to be the ultimate electric vehicle charging solution. An attractive, powerful and durable level 2 charger, the PowerCharge Energy Series features...

- ✓ A slim and durable design that is outdoor rated* with multiple mounting configurations. The Energy Series has a small footprint, whether wall or pedestal mounted.
- ✓ At up to 8x faster than a standard 110v plug, the Energy Series safely delivers up to 25 miles of driving range for every hour of charge time.
- ✓ With our adjustable power output, you can have the ideal power to match your supply panel, electric vehicle and driving range.
- ✓ Will charge all plug-in vehicles sold in the US and Canada.
- ✓ We back up our Energy Series with a 3-year warranty.
- ✓ The charger is UL-listed and meets safety criteria for use throughout North America.
- ✓ Our OCPP Protocol allows for software options to fit your needs and budget.

PowerCharge
7464 W. Henrietta Road | Rush, NY 14543| 585.533.4085| PowerChargeEV.com

Multiple Configurations

Available in multiple configurations (single-port, wall or pedestal, dual-port pedestal, quad-port pedestal, cable retraction)

Models

Energy
Open Access

Open access version, common for residential and fleet use.

- Powerful level 2 with 7.6kW output, adjustable to 5.8kW or 3.8kW
- 25' cable standard
- Easy plug-in installation or
- Hardwire for outdoor install
- 3-year warranty, 5-year optional
- UL & cUL safety certified
- Slim, attractive design
- All-weather durability

Platinum
RFID Access Control

Our Platinum station is available as a non-networked charger with RFID access control.

- Control access without recurring network fees
- Simply issue an RFID card or key fob to authorized users

Platinum
Networked

The Platinum version is network capable, which, when connected to a software plan provides a full suite of features.

- Point of sale payment
- Access control options
- Usage data collection and reporting online for easy management and fleet tracking
- Open Charge Point Protocol (OCPP) Compliant
- LAN and Cellular communication
- Gateway or non-gateway configuration available

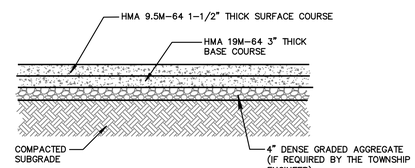
PowerCharge
7464 W. Henrietta Road | Rush, NY 14543| 585.533.4085| PowerChargeEV.com

Technical Specifications

Item	E20-XXE	E20-XXP	E20-XXP-G
Application	Commercial	Commercial	Commercial
Voltage (Vac)	208/240VAC, Single Phase		
Frequency (Hz)	60 Hz		
Current (Rms)	Adjustable	16A/24A/32A (3.8kW/5.8kW/7.6kW)	
Circuit Breaker	16A=20A/24A=30A/32A=40A		
Charging Connector	SAE J1772		
Charging Cable Length	25 ft.		
Metering Accuracy	N/A	Embedded ± 3%	
Real Time Clock	N/A	Yes (7 days)	
Wi-Fi	N/A	802.11 b/g/n	
Cellular	N/A	N/A	LTE Cat. 1 (Verizon)
RFID	N/A	ISO 14443 A/B, ISO 15693, NFC, NEMA interoperability protocol	
Display	Color LED Status Lights	116(L)*8.5(W)*37(H)mm, 5.67mm CHARACTER HEIGHT, 5*8 DOT MATRIX, OLED 20x2	
Data Protocol	N/A	OCPP 1.6	
Operation Temp.	-30C/-22F to 50C/122F		
Storage Temp.	-40C/-40F to 70C/158F		
Mounting Type	Wall mount / Pedestal mount		
Wiring Type	Hard-wired		Hard-wired
IP Performance	NEMA 4		
Impact Resistance	IK10		
Dimension (HxWxD, in inches)	11.14" x 7.56" x 3.11"		
Web Portal Management	N/A	Yes	
Console Management	Yes		
Certification	UL 50/991/1449/1998/2231/2594 FCC Part 15B		
	N/A	FCC Part 15.225 (RFID 13.56MHz) FCC Part 15.247 (WLAN 2.4GHz)	
	N/A		FCC Part 27 (AT&T) or FCC Part 27 (Verizon)
Pedestal Dimensions	Post: 6" x 6" x 60"		Base: 12" x 12"
Pedestal Construction	Aluminum, Grey Powder-Coat Finish, Stainless Steel Hardware		

PowerCharge
7464 W. Henrietta Road | Rush, NY 14543| 585.533.4085| PowerChargeEV.com

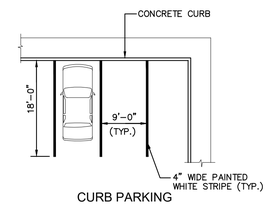
EV ELECTRIC CHARGER (LEVEL 2) SPECIFICATIONS



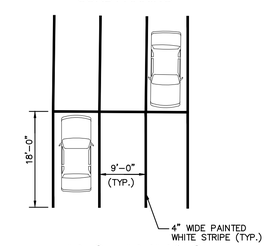
NOTE: PAVEMENT TO BE PLACED IN ACCORDANCE WITH THE NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

ASPHALT PAVEMENT REPAIR DETAIL

NOT TO SCALE



CURB PARKING



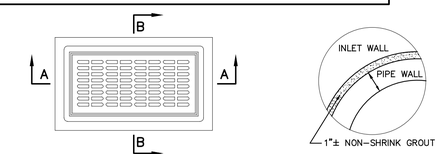
HEAD TO HEAD PARKING

NOTES:

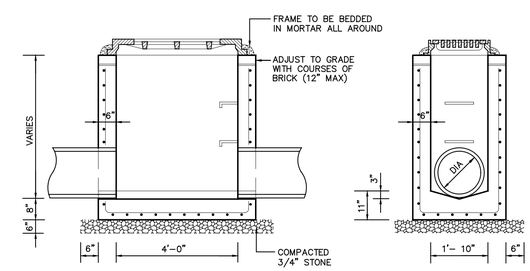
1. ALL STALLS SHALL BE 9'-0"x18'-0"
2. PROPOSED STRIPING SHALL BE WHITE IN COLOR.

PARKING STRIPING LAYOUT

NOT TO SCALE



CONNECTION OF PIPE

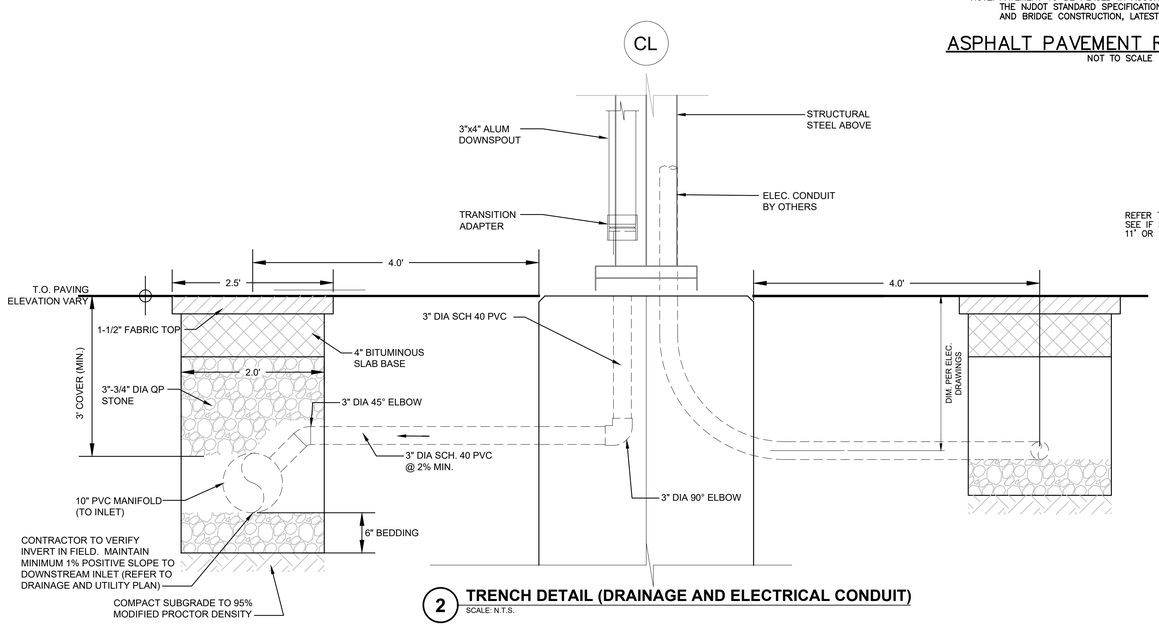


SECTION A–A
"THROUGH" INVERT DETAIL

SECTION B–B

STORM SEWER CONNECTION TO EXISTING INLET/MANHOLE DETAIL

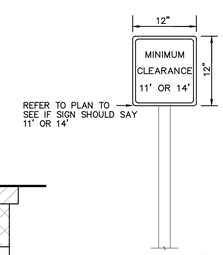
NOT TO SCALE



2 TRENCH DETAIL (DRAINAGE AND ELECTRICAL CONDUIT)

SCALE: N.T.S.

NOTE: DETAIL BASED UPON PLANS ENTITLED "MORRISTOWN MEDICAL CENTER HEALTH PAVILION, TYP. FOUNDATION" DONE BY PARASOL STRUCTURES, LAST REVISED AUGUST 19, 2021.



MINIMUM CLEARANCE SIGN

NOT TO SCALE

NO.	DATE	REVISION	DRAWN	CHK'D	REL'D
1.	10/15/2021	REVISED PER COMPLETENESS REVIEW	MS	PS	JS

PARTNER
Engineering and Science, Inc.
(a DBA of Partner Assessment Corp. a NJ Engineering firm)
JEFFREY C. SZABO, P.E.
NJ PROFESSIONAL ENGINEER Lic. No. 24GE04457700
611 Industrial Way West
Eatontown, NJ 07724
NJ Certificate of Authorization No. 24GA28222900
Tel.: 732.380.1700
Fax.: 732.380.1701
WWW.PARTNERESI.COM

Date	Scale:(H)	Drawn	Designed	Checked	Released
08/19/2021	(V)	MS	JS	PS	JS

CONSTRUCTION DETAILS
MAJOR SITE PLAN
SOLAR CARPORTS FOR CHILTON MEDICAL CENTER
PEQUANNOCK TOWNSHIP
BLOCK 2401, LOTS 15 & 16; BLOCK 2402, LOTS 1-4

SITUATED IN
PEQUANNOCK TOWNSHIP, MORRIS COUNTY, NEW JERSEY

Job No.	Drawer Number	Drawing Name:	
003-20-003	000-000	08-DETAILS.dwg	12 OF 13

Plotted:10/14/21 – 5:38 PM, By: msun
File: S:\Projects\003-20-003 ATLANTIC HEALTH SYSTEM\003 – 20-003 Chilton Medical Center\Plan\Dwg\08-DETAILS.dwg, ---> 12-DETAILS
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Three-Phase Transformers
CA202003EN

Effective July 2015
Supersedes 210-12 August 2013

COOPER POWER SERIES

Three-phase pad-mounted compartmental type transformer

General

At Eaton, we are constantly striving to introduce new innovations the transformer industry, bringing you the highest quality, most reliable transformers. Eaton's Cooper Power series Transformer Products are ISO 9001 compliant, emphasizing process improvement in all phases of design, manufacture, and testing. In order to ensure the highest quality, we combine both time and money in the Thomas A. Edison Technical Center, our premier research facility in Pewaukee, Wisconsin. Such revolutionary products as distribution-class UltraSIL™ Polymer-Housed Evolution™ surge arresters and Envirotemp™ FR3™ fluid have been developed at our Franksville lab.

With transformer sizes ranging from 45 kVA to 12 MVA and high voltages ranging from 2400 V to 46 kV, Eaton has you covered. From fabrication of the tanks and cabinets to winding of the cores and coils, to production of arresters, switches, tap changers, expulsion fuses, current limit fuses, bushings (live and dead) and molded rubber products, we do it all. Our Cooper Power series transformers are available with electrical grade mineral oil or Envirotemp™ FR3™ fluid, a less-flammable and bio-degradable fluid. Electrical codes recognize the advantages of using Envirotemp™ FR3™ fluid both indoors and outdoors for fire sensitive applications. The bio-based fluid meets Occupational Safety and Health Administration (OSHA) and Section 450.23 NEC Requirements.

EATON
Powering Business Worldwide

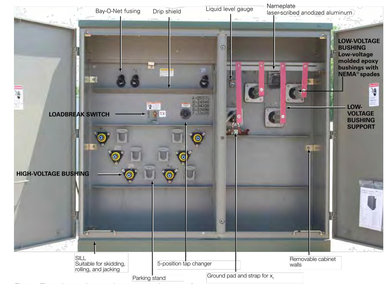


Figure 1. Three-phase pad-mounted compartmental type transformer.

Table 1. Product Scope

Type	Three Phase, 50 or 60 Hz, 65 °C Rise (55 °C, 55/65 °C), 65/75 °C, 75 °C
Fluid Type	Mineral oil or Envirotemp™ FR3™ fluid
Coil Configuration	2-winding or 4-winding or 3-winding (Low-High-Low), 3-winding (Low-Low-High)
Size	45 – 10,000 kVA
Primary Voltage	2,400 – 46,000 V
Secondary Voltage	208Y/120 V to 14,400 V
Specialty Designs	Inverter/Rectifier Bridge
	K-Factor (up to K-19)
	Vacuum Fault Interrupter (VFI)
	UL® Listed & Labeled and Classified
	Factory Mutual (FM) Approved®
	Solar/Wind Designs
	Differential Protection
	Seismic Applications (including OSHPD)
	Hardened Data Center

Table 2. Three-Phase Ratings

Three-Phase 50 or 60 Hz
kVA Available[1]
45, 75, 112.5, 150, 225, 300, 500, 750, 1000, 1500, 2000, 2500, 3000, 3750, 5000, 7500, 10000

[1]Transformers are available in the standard ratings and configurations shown or can be customized to meet specific needs.

Table 3. Impedance Voltage

	Low-voltage rating		
Rating (kVA)	**≤ 600 V**	**2400 Δ through 4800 Δ**	**6900 Δ through 13800GY/7970 or 13800 Δ**
45–75	2.19-3.75	2.35-3.75	2.35-5.75
112.5-300	3.10-5.75	3.10-5.75	3.10-5.75
500	4.35-5.75	4.35-5.75	4.35-5.75
750-2500	5.75	5.75	5.75
3750	5.75	5.75	6.00
5000		6.00	6.50

Note: The standard tolerance is ± 75%

Table 4. Audible Sound Levels

	NEMA® TR-1 Average
Self-Cooled, Two Winding kVA Rating	**Decibels (dB)**
45-500	56
501-700	57
701-1000	58
1001-1500	60
1501-2000	61
2001-2500	62
2501-3000	63
3001-4000	64
4001-5000	65
5001-6000	66
6001-7500	67
7501-10000	68

Table 5. Insulation Test Levels

kV Class	Induced Test 180 or 400 Hz 7200 Cycle	kV BIL Distribution	Applied Test 60 Hz (kV)
1.2	Twice Rated Voltage	30	10
2.5		45	15
5		60	19
8.7		75	26
15		95	34
25		125	40
34.5		150	50

Table 6. Temperature Rise Ratings 0-3300 Feet (0-1000 meters)

	Standard	Optional
Unit Rating (Temperature Rise Winding)	65 °C	55 °C, 55/65 °C, 75 °C
Ambient Temperature Max	40 °C	50 °C
Ambient Temperature 24 Hour Average	30 °C	40 °C
Temperature Rise Hotspot	80 °C	65 °C

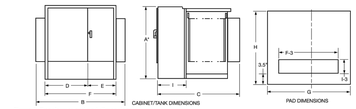


Figure 2. Transformer and pad dimensions.

* Add 9" for Bay-O-Net fusing.

Table 7. Fluid-filled—aluminum windings 55/65 °C Rise[1]

55° Rise	DEAD-FRONT—LOOP OR RADIAL FEED—BAYO-NET FUSING OIL FILLED—ALUMINUM WINDINGS											
	OUTLINE DIMENSIONS (in.)											
kVA Rating	A*	B	C	D	E	F	G	H	I	J	Gallons of Fluid	Approx. Total Weight (lbs.)[1]
45	50	68	39	42	26	68	72	43	20	110	110	2,100
75	50	68	39	42	26	68	72	43	20	115	115	2,250
112.5	50	68	49	42	26	68	72	53	20	120	120	2,350
150	50	68	49	42	26	68	72	53	20	125	125	2,700
225	50	72	51	42	30	72	76	55	20	140	140	3,150
300	50	72	51	42	30	72	76	55	20	160	160	3,650
500	50	89	53	42	30	72	93	57	20	190	190	4,650
750	64	89	57	42	30	72	93	61	20	270	270	6,500
1000	64	89	59	42	30	72	93	63	20	290	290	8,200
1500	73	89	66	42	30	72	93	70	24	410	410	10,300
2000	73	72	87	42	30	72	76	91	24	490	490	12,500
2500	73	72	99	42	30	72	76	103	24	530	530	14,500
3000	73	84	99	46	37	84	88	103	24	620	620	16,700
3750	84	85	108	47	39	85	89	112	24	660	660	19,300
5000	84	96	108	48	48	96	100	112	24	930	930	25,000
7500	94	102	122	54	48	102	106	126	24	1,580	1,580	41,900

[1] Weights, gallons of fluid, and dimensions are for reference only and not for construction. Please contact Eaton for exact dimensions.

* Add 9" for Bay-O-Net fusing.

Table 8. Fluid-Filled—Copper Windings 55/65 °C Rise[1]

55° Rise	DEAD-FRONT—LOOP OR RADIAL FEED—BAYO-NET FUSING OIL FILLED—COPPER WINDINGS											
	OUTLINE DIMENSIONS (in.)											
kVA Rating	A*	B	C	D	E	F	G	H	I	J	Gallons of Fluid	Approx. Total Weight (lbs.)[1]
45	50	64	39	34	30	64	69	43	20	110	110	2,100
75	50	64	39	34	30	64	69	43	20	115	115	2,250
112.5	50	64	49	34	30	64	69	53	20	115	115	2,500
150	50	64	49	34	30	64	69	53	20	120	120	2,700
225	50	64	51	34	30	64	73	55	20	140	140	3,250
300	50	64	51	34	30	64	79	55	20	160	160	3,800
500	50	81	53	34	30	64	85	57	20	200	200	4,800
750	64	89	57	42	30	72	93	61	20	255	255	6,500
1000	64	89	59	42	30	72	93	63	20	300	300	7,800
1500	73	89	66	42	30	72	93	70	24	410	410	10,300
2000	73	72	87	42	30	72	76	91	24	470	470	11,600
2500	73	72	99	42	30	72	76	103	24	500	500	14,000
3000	73	84	99	46	37	84	88	103	24	720	720	18,700
3750	84	85	108	47	39	85	89	112	24	860	860	20,500
5000	84	96	108	48	48	96	100	112	24	850	850	25,000
7500	94	102	122	54	48	102	106	126	24	1,625	1,625	46,900

[1] Weights, gallons of fluid, and dimensions are for reference only and not for construction. Please contact Eaton for exact dimensions.

* Add 9" for Bay-O-Net fusing.

TRANSFORMER SPECIFICATIONS

Product Description

Siemens stock service entrance switchboards are designed as stock units to meet the fast delivery needs of the market.

All of Siemens stock switchboards are suitable for service entrance. These switchboards combine utility metering provisions and a main service disconnect that can either be a Vacu-Break fusible switch or a molded case circuit breaker.

Stock switchboards have many applications, some of the most common include:
- Retail stores
- Office buildings
- Small factories
- Commercial stores and shopping centers

Individual Product Lines

Super Blue Pennant
- Specifically designed to meet EUSERC requirements
- Provision for EUSERC utility metering
- Main fusible switch or circuit breaker
- Optional distribution panel

BCT Service Cubicle
- Provision for utility metering (non-EUSERC)
- Main molded case circuit breaker

SCT Service Cubicle
- Provision for utility metering (non-EUSERC)
- Main Vacu-Break fusible switches

Additional Information

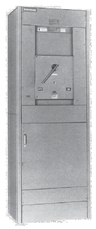
For complete application and pricing information contact your local Siemens sales office.

For further information on the product, visit our website at www.usa.siemens.com/switchboards

For detailed configuration information consult the selection and application guide on the website.

Super Blue Pennant

BCT Service Cubicle



SCT Service Cubicle

Product Description

Siemens Super Blue Pennant stock service entrance switchboards are designed as stock units to meet the fast delivery needs of the market.

Super Blue Pennant switchboards are suitable for service entrance and are specifically designed to meet EUSERC requirements. They combine utility metering provisions with either a main Sentron molded case circuit breaker or Vacu-Break fusible switch. An optional plug-in or bolt on distribution panel can also added in the field in the same section.

Super Blue Pennant switchboards have many applications, some of the most common include:
- Retail stores
- Office buildings
- Small factories
- Commercial stores and shopping centers

Super Blue Pennant

Features & Benefits

Features
- Up to 800 amperes
- Up to 480 volts AC
- Bus bracing up to 200KAIC
- Type 1 or Type 3R enclosures

Utility Provision

Incoming main lugs are mechanical screw-type, mounted on studs and accept a wide range of cable sizes. A barriered hot sequence utility metering compartment is supplied which meets all EUSERC requirements. The meter and test block provisions are also built to meet EUSERC requirements.

Main Disconnect

The main service disconnect can be either a Sentron molded case circuit breaker in 400, 600 or 800 amperes or a Vacu-Break fusible switch in 400 or 600 amperes.

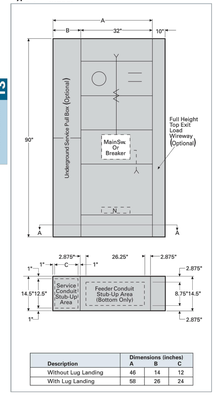
Distribution Panel

Super Blue Pennant switchboards can accommodate an optional distribution panel assembly per unit with ratings of 400, 600 or 800 amperes. The distribution panel can take up to 40 single pole branch breakers which can be either bolt on or plug-in.

Standards & Certifications

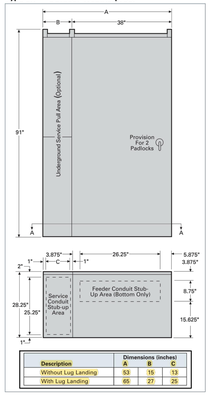
- UL891
- NEMA PB-2
- Seismically qualified
- Other equipment is UL listed as applicable
- Suitable for use only for service entry equipment

Type 1 — Indoor



Description	Dimensions (inches) A	B	C
Without Lug Landing	46	14	12
With Lug Landing	58	26	24

Type 3R — Outdoor Weatherproof



Description	Dimensions (inches) A	B	C
Without Lug Landing	53	15	13
With Lug Landing	65	27	25

For inches / millimeters conversion, see conversion table in Application Data section.

SWITCHBOARDS 13

SWITCHBOARDS 13

SWITCHBOARDS 13