

REFERENCES:

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY FOR 1155 PLEASANT VALLEY WAY LOT 12 BLOCK 171, TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY" PREPARED BY MICHAEL FERSCHMAN P.L.S. DATED 4/18/2020.

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4	REVISED PER SETTLEMENT PLAN	10/13/2023	JMP
3	ELIMINATION OF PHASE IV	01/26/2023	JMP
2	REVISED PER ZONING BOARD ENGINEER'S COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	05/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY

PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

SETTLEMENT PLAN OVERALL LAYOUT SHEET



J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. No. 35662 DATED 10/29/2021

Designer: JMP

craftsman: JAF

Checked By: JMP

Project No.: 19-265

case: 1"=50'

Proof:

AS-2.1

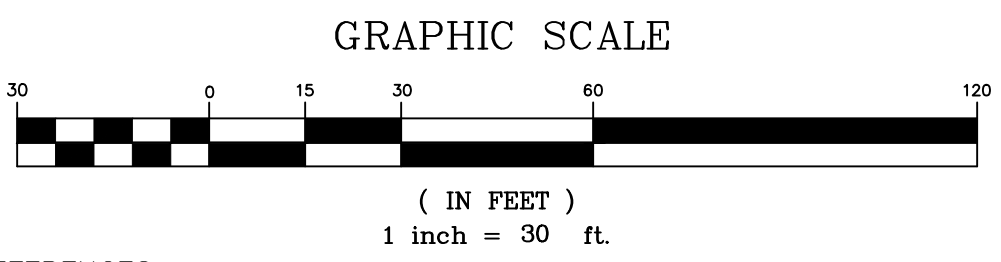


SIGN LEGEND		
1	R1-1	STOP SIGN
3	R7-8 & 8B	HANDICAP PARKING
EV	R7-111	ELECTRIC VEHICLE PARKING

228 SURFACE LEVEL SPACES
(INCLUDES 34 EV SPACES)
+ 14 FUTURE SPACES

- NOTE:
- ELECTRIC VEHICLE PARKING SPACES TO BE CONSTRUCTED AS NEEDED IN ACCORDANCE WITH STATUTE. MINIMUM 1/3 OF THE SPACES SHALL BE CONSTRUCTED WITH THE INITIAL PARKING FOR CONSTRUCTION. WITHIN 3 YEARS OF ISSUANCE OF C.O. AN ADDITIONAL 1/3 OF THE SPACES SHALL BE FUNCTIONAL. WITHIN 6 YEARS THE FINAL 1/3 SHALL BE CONSTRUCTED.
 - ELECTRICAL CONDUITS FOR ALL EV SPACES TO BE INSTALLED BEFORE PAVEMENT IS CONSTRUCTED.
 - COURTYARDS ASSUMED TO BE 50% IMPERVIOUS FOR FLEXIBILITY WITH FINAL WALKWAY LAYOUT.
 - RETAINING WALLS "C", "E", AND "F" HAVE BEEN REMOVED FROM THE SCOPE OF WORK.

- EV INSTALLATION SCHEDULE:
- 18 EV STATIONS INSTALLED BEFORE C.O. (18 OUTSIDE)
 - 20 EV STATIONS INSTALLED WITHIN 3 YEARS OF C.O. (20 GARAGE)
 - 16 EV STATIONS INSTALLED WITHIN 6 YEARS OF C.O. (16 OUTSIDE)



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1	REVISED PER NEW BUILDING FOOTPRINT	09/29/2022	JMP

PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

**SETTLEMENT PLAN
LAYOUT SHEET**



J. MICHAEL PETRY-PE,PP,RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36662 DATED: 10/28/2021

Designer: JMP
Draftsman: JMF
Checked By: JMP
Project No.: 19-265
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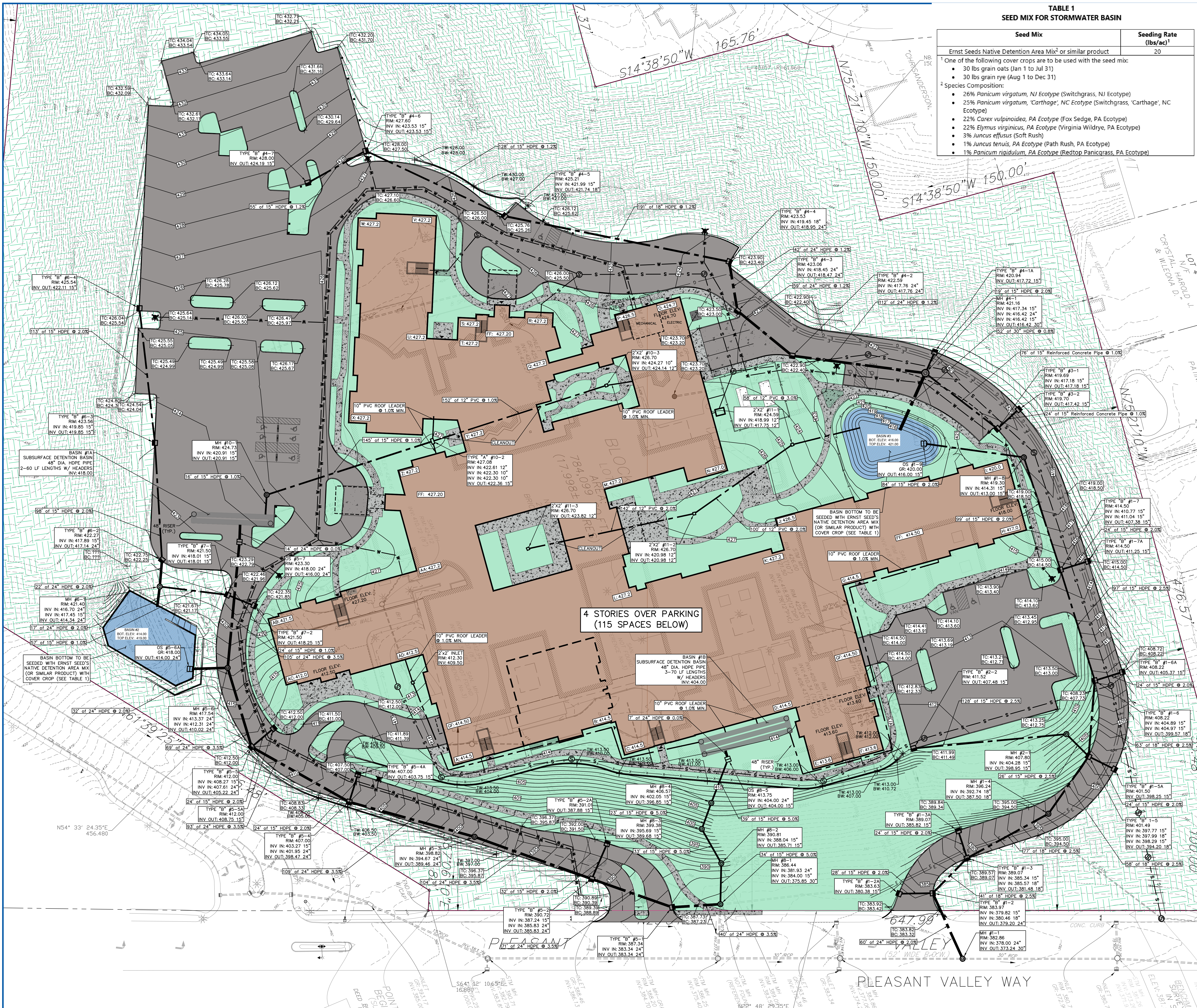


TABLE 1
SEED MIX FOR STORMWATER BASIN

Seed Mix	Seeding Rate (lbs/ac) ¹
Ernst Seeds Native Detention Area Mix ² or similar product	20
¹ One of the following cover crops are to be used with the seed mix:	
• 30 lbs grain oats (Jan 1 to Jul 31)	
• 30 lbs grain rye (Aug 1 to Dec 31)	
² Species Composition:	
• 26% <i>Panicum virgatum</i> , NJ Ecotype (Switchgrass, NJ Ecotype)	
• 25% <i>Panicum virgatum</i> , 'Carthage', NC Ecotype (Switchgrass, 'Carthage', NC Ecotype)	
• 22% <i>Carex vulpinoidea</i> , PA Ecotype (Fox Sedge, PA Ecotype)	
• 22% <i>Elymus virginicus</i> , PA Ecotype (Virginia Wildrye, PA Ecotype)	
• 3% <i>Juncus effusus</i> (Soft Rush)	
• 1% <i>Juncus tenuis</i> , PA Ecotype (Path Rush, PA Ecotype)	
• 1% <i>Panicum rigidulum</i> , PA Ecotype (Redtop Panicgrass, PA Ecotype)	

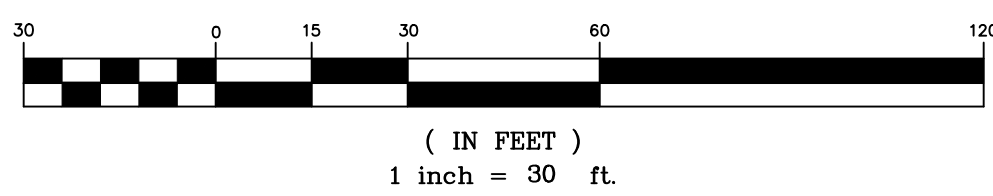
AVERAGE GRADE CALC.

A	414.50
B	414.50
C	414.50
D	414.50
E	413.60
F	413.60
G	414.50
H	417.00
I	420.00
J	427.00
K	427.20
L	427.20
M	427.20
N	427.00
O	424.70
P	426.50
Q	427.20
R	427.20
S	427.20
T	427.20
U	427.20
V	427.20
W	427.20
X	427.20
Y	427.20
Z	427.20
AA	427.20
AB	421.50
AC	412.00
AD	412.50
AVG.	422.29

NOTE:

1. PHASE 1 ROOF LEADERS TO TIE INTO SUBSURFACE BASIN #1A.
2. PHASE 2 & 3 ROOF LEADERS TO TIE INTO SUBSURFACE BASIN #1B.
3. PHASE 1 BUILDING TO INCLUDE 10,081 SF OF GREEN ROOF AREA.
4. PHASE 2 & 3 BUILDING TO INCLUDE 17,326 SF OF GREEN ROOF AREA.

GRAPHIC SCALE



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2. SUPPLEMENTAL UTILITY INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "ORIS FINDINGS MAP OF DAUGHTERS OF ISRAEL CAMPUS 1155 PLEASANT VALLEY WAY, WEST ORANGE, NJ" PREPARED BY SCOTT WAPIANO AND DATED 10/06/2021.

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1	REVISED PER NEW BUILDING FOOTPRINT	05/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY

PREPARED FOR
DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

SETTLEMENT PLAN
GRADING AND DRAINAGE PLAN



J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36962 DATED: 10/29/2021

Designer: JMP

Checker: JAF

Checked By: JMP

Project No.: 19-265

Sheet: 11-307

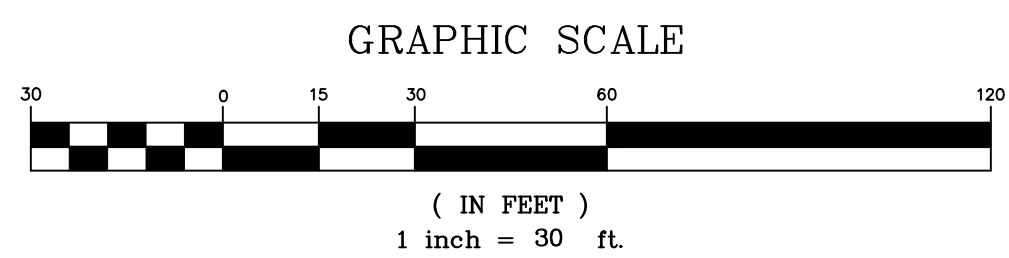
Scale: 1"=30'

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LUMINAIRE SCHEDULE - REFER TO LIGHTING FIXTURE CATALOGS FOR COMPLETE CATALOG NUMBERS									
Symbol	Qty	Arrangement	Fixture Type	Description	Manufacturer	Catalog Number	QCT	L.F.F.	Total Watts
●	43	Single	ROD	3.5 FOOT ROUND LED BOLLARD	KIM LIGHTING	IP40-ROD-12-020-30T-M16	3000K	0.900	21.76
●	47	Single	SL1	POST TOP LED FIXTURE, TYPE 3 DISTRIBUTION	KIM LIGHTING	IP40-SL1-80-30T-030-02L-P1-M16	3000K	0.900	80
●	4	Single	SL2	POST TOP LED FIXTURE, TYPE 3 WIDE DISTRIBUTION	KIM LIGHTING	IP40-SL2-80-30T-030-02L-P1-M16	3000K	0.900	80
●	11	Single	SL3	UPPER SERIES AREA LIGHT, TYPE 3 WIDE DISTRIBUTION	Boscon Products	VP-L-64L-100-30T-030-02L	3000K	0.900	100
■	2	Bank-Back	SL5	UPPER SERIES AREA LIGHT, TYPE 3 WIDE DISTRIBUTION	Boscon Products	VP-L-64L-100-30T-030-02L	3000K	0.900	273.2
■	1	Single	SL6	LED WALLPACK, TYPE 4 DISTRIBUTION	KIM LIGHTING	WCPD-WAL-100-30T-030-02L	3000K	0.900	104
■	12	Single	SL7	UPPER SERIES AREA LIGHT, TYPE 3 WIDE DISTRIBUTION	Boscon Products	VP-L-64L-100-30T-030-02L	3000K	0.900	127.6

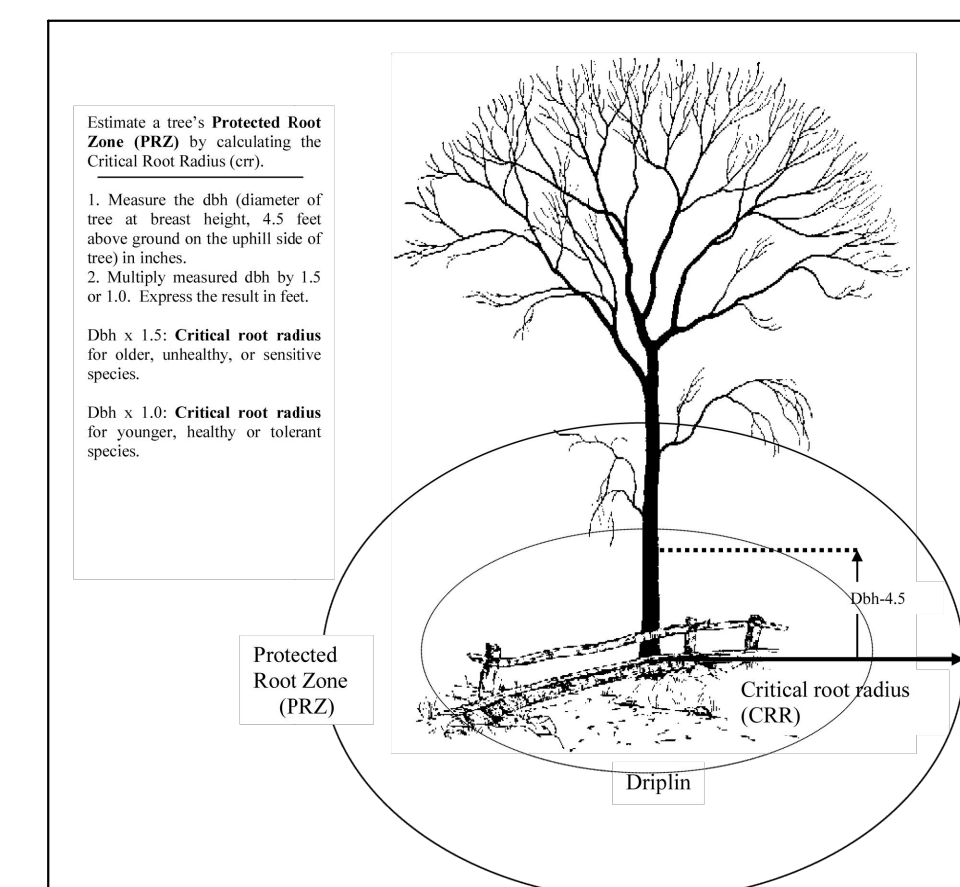
CALCULATION SUMMARY									
Label	CalcType	Units	Avg	Max	Min	Avg/Wk	Max/Wk	Pct/Lx	Pct/Wk
OVERALL	Footcandle	Ft	0.72	22.7	0.0	N/A	N/A	25	20
PARKING AND DRIVEWAYS, 1	Footcandle	Ft	0.36	10.0	0.0	7.80	44.25		



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 - SUPPLEMENTAL UTILITY INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "GPS FINDINGS MAP OF DAUGHTERS OF ISRAEL CAMPUS 1155 PLEASANT VALLEY WAY, WEST ORANGE, NJ" PREPARED BY SCOTT VIPIANO AND DATED 10/06/2021.
- LIGHTING NOTES:
- LIGHTING FOR EXISTING FACILITY IS SET ON A DUSK TO DAWN TIMER.
 - THE PROPOSED LIGHTING SHALL BE SET ON A DUSK TO DAWN TIMER.
 - ALL PROPOSED FIXTURES AND THEIR RESPECTIVE POLES SHALL BE BRONZE.
 - ANY DEVIATION FROM THE SPECIFIED LIGHTING FIXTURES SHALL BE SUBMITTED IN WRITING TO PETRY ENGINEERING, LLC ALONG WITH THE ACCOMPANYING POINT BY POINT ANALYSIS.

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1	REVISED PER NEW BUILDINGS FOOTPRINT	05/20/2022	JMP
REVISION	DESCRIPTION	DATE	BY
PREPARED FOR DAUGHTERS OF ISRAEL, INC 1155 PLEASANT VALLEY WAY BLOCK 171 LOT 12 TOWNSHIP OF WEST ORANGE ESSEX COUNTY, NEW JERSEY			
SETTLEMENT PLAN LIGHTING PLAN			
			
DESIGNER: JMP DRAFTER: JMF CHECKED BY: JMP PROJECT NO.: 19-265 SCALE: 1" = 30' SHEET: J. MICHAEL PETRY-PE, PP, RA NJ PROFESSIONAL ENGINEER LIC. NO. 36662 DATED: 10/29/2023			
AS-2.4			

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ROOT PROTECTION DURING CONSTRUCTION DETAIL
SCALE - N.T.S.

PRIOR WOODED AREA DISTURBANCE - PER PLAN DATED 01/26/2023:

9.5 ACRES OF EXISTING WOODED AREA
0.23 ACRES OF DISTURBED WOODED AREA

0.23 / 9.5 = 2.4% OF DISTURBED WOODED AREA

WOODED AREA DISTURBANCE - PROPOSED SETTLEMENT PLAN:

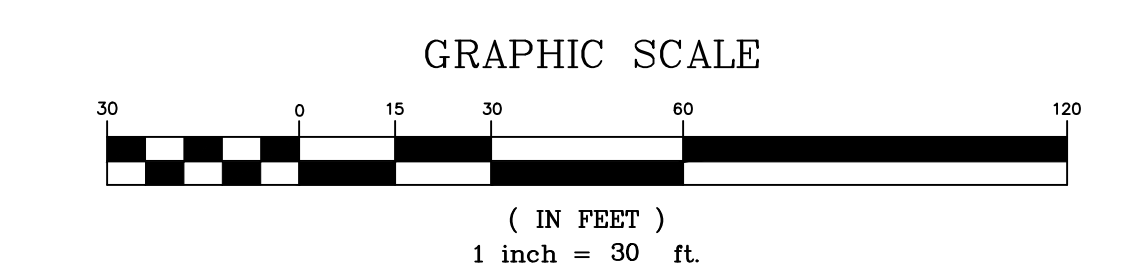
9.5 ACRES OF EXISTING WOODED AREA
0.22 ACRES OF DISTURBED WOODED AREA

0.22 / 9.5 = 2.3% OF DISTURBED WOODED AREA

LESS THAN 30% ALLOWED

NOTES:

1. TREE LOCATIONS ARE APPROXIMATE, FOR VISUAL PURPOSES ONLY.
2. TREES TO BE RETAGGED AND RENUMBERED PRIOR TO REMOVAL
3. REMAINING TREES TO BE PRUNED AS DIRECTED BY THE TOWN FORESTER.
4. ADDITIONAL TREE PROTECTION TO BE INSTALLED AS PER THE TOWN FORESTER'S RECOMMENDATIONS.



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3	REVISED PER TOWN FORESTER'S COMMENTS	01/12/2023	JMP
2	REVISED PER ZONING BOARD ENGINEER'S COMMENTS	11/03/2022	JMP
1	REVISED PER NEW BUILDING FOOTPRINT	05/20/2022	JMP
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 1155 PLEASANT VALLEY WAY
 BLOCK 171 LOT 12
 TOWNSHIP OF WEST ORANGE
 ESSEX COUNTY, NEW JERSEY

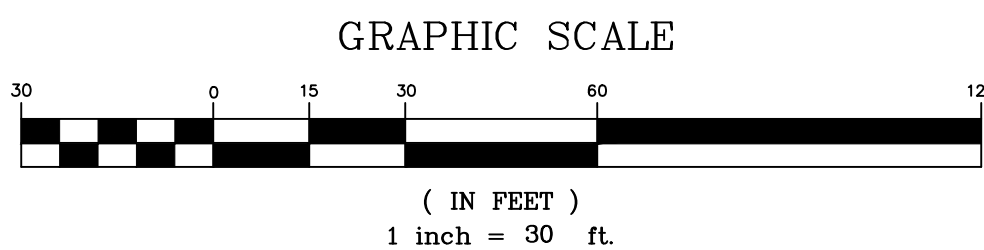
SETTLEMENT PLAN
TREE REMOVAL PLAN



J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. No. 36862 DATED 10/29/2021

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Draftsman: JAF
Checked By: JMP
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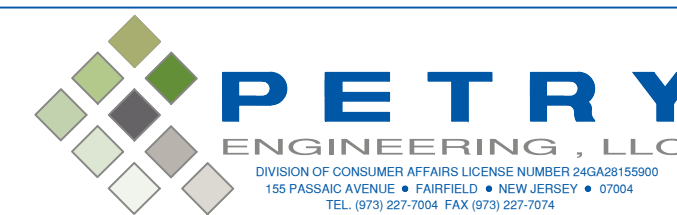
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DAUGHTERS OF ISRAEL, INC
1155 PLEASANT VALLEY WAY
BLOCK 171 LOT 12
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

SETTLEMENT PLAN
OVERALL PHASING PLAN



J. MICHAEL PETRY-PE,PP,RA
NJ PROFESSIONAL ENGINEER LIC. NO. 36662 DATED: 05/20/2022

Designer: JMP

Draftsman: JAF

Checked By: JMP

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