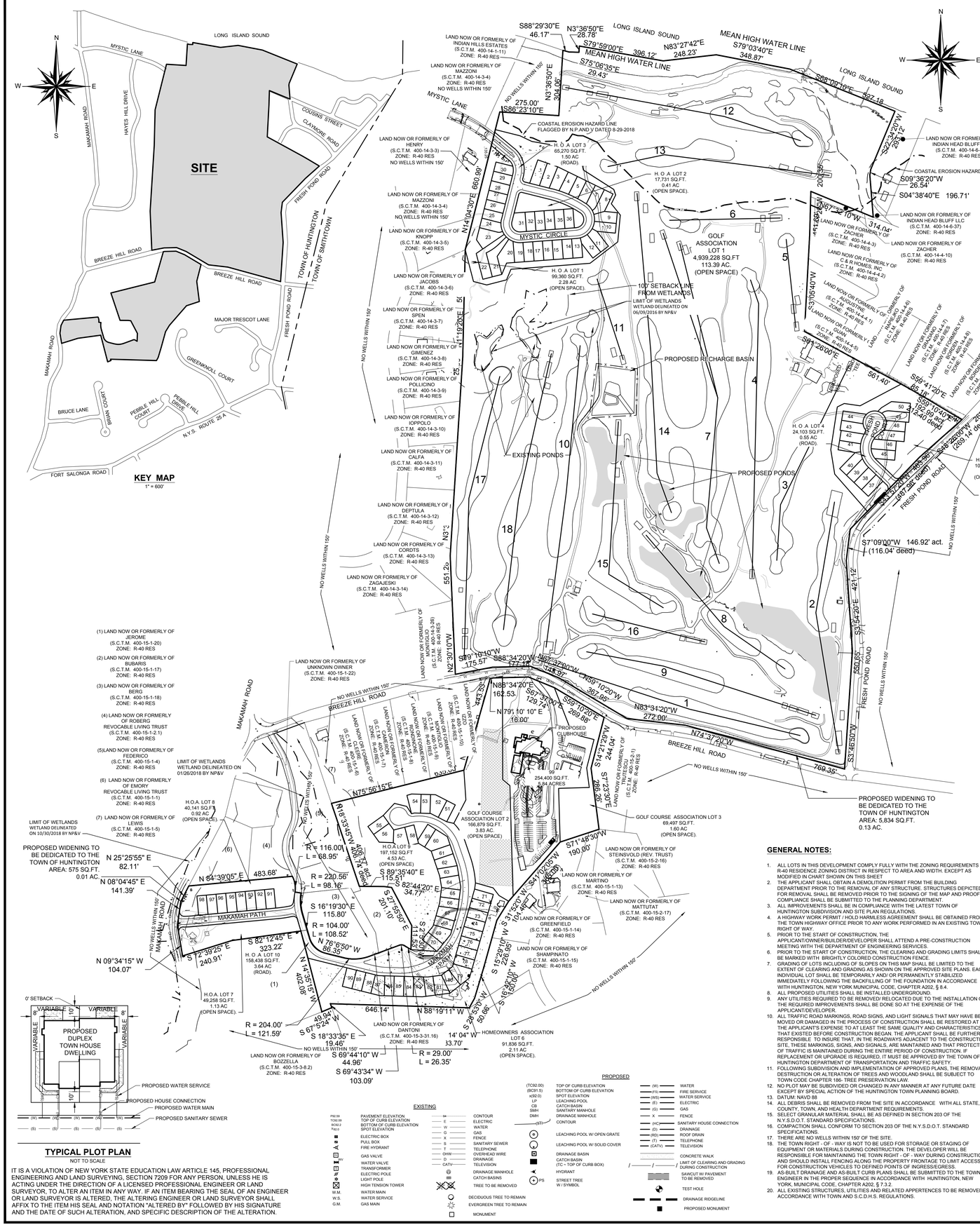
Appendix B-1
Project Plans

N&P Engineers & Land Surveyor, PLLC
February 25, 2019



TYPICAL PLOT PLAN

NOT TO SCALE

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

TABLE OF MODIFICATIONS

LOT No.	LOT AREA	ESTABLISHED FRONT YARD SETBACK	SIDE YARD SETBACK MIN.	SIDE YARD SETBACK TOTAL	REAR YARD SETBACK	LOT WIDTH AT SETBACK	CORNER LOT SETBACK
1	5,275.5 S.F.	10'	0'	8'	10'	46.77'	----------
2	5,337 S.F.	10'	0'	8'	10'	47.17'	----------
3	5,173 S.F.	10'	0'	8'	10'	48.17'	----------
4	4,483 S.F.	10'	0'	8'	10'	47.29'	----------
5	4,632 S.F.	10'	0'	8'	10'	47.06'	----------
6	4,369 S.F.	10'	0'	8'	10'	46.47'	----------
7	4,751 S.F.	10'	0'	8'	10'	47.48'	----------
8	5,025 S.F.	10'	0'	8'	10'	23.39'	----------
9	4,877 S.F.	10'	0'	8'	10'	36.77'	----------
10	4,629 S.F.	10'	0'	8'	10'	40.53'	----------
11	4,676 S.F.	10'	0'	8'	10'	40.52'	----------
12	4,771 S.F.	10'	0'	8'	10'	41.01'	----------
13	4,004 S.F.	10'	0'	8'	10'	42.51'	----------
14	4,097 S.F.	10'	0'	8'	10'	45.50'	----------
15	4,082 S.F.	10'	0'	8'	10'	45.33'	----------
16	4,067 S.F.	10'	0'	8'	10'	45.17'	----------
17	4,097 S.F.	10'	0'	8'	10'	45.50'	----------
18	4,097 S.F.	10'	0'	8'	10'	45.50'	----------
19	4,204 S.F.	10'	0'	8'	10'	46.42'	----------
20	7,076 S.F.	10'	0'	8'	10'	29.71'	----------
21	7,553 S.F.	10'	0'	8'	10'	17.60'	----------
22	6,679 S.F.	10'	0'	8'	10'	17.11'	----------
23	6,828 S.F.	10'	0'	8'	10'	18.41'	----------
24	4,489 S.F.	10'	0'	8'	10'	47.24'	----------
25	4,087 S.F.	10'	0'	8'	10'	45.50'	----------
26	3,976 S.F.	10'	0'	8'	10'	44.38'	----------
27	3,975 S.F.	10'	0'	8'	10'	44.37'	----------
28	4,076 S.F.	10'	0'	8'	10'	44.50'	----------
29	4,076 S.F.	10'	0'	8'	10'	44.50'	----------
30	3,836 S.F.	10'	0'	8'	10'	45.29'	----------
31	5,218 S.F.	10'	0'	8'	10'	125.5*	----------
32	3,976 S.F.	10'	0'	8'	10'	44.38'	----------
33	3,975 S.F.	10'	0'	8'	10'	44.37'	----------
34	4,076 S.F.	10'	0'	8'	10'	44.50'	----------
35	4,076 S.F.	10'	0'	8'	10'	44.50'	----------
36	3,942 S.F.	10'	0'	8'	10'	44.00'	----------
37	4,294 S.F.	10'	0'	8'	10'	44.00'	----------
38	4,740 S.F.	10'	0'	8'	10'	48.58'	----------
39	4,902 S.F.	10'	0'	8'	10'	49.45'	----------
40	5,049 S.F.	10'	0'	8'	10'	40.50'	----------
41	4,431 S.F.	10'	0'	8'	10'	40.63'	----------
42	4,807 S.F.	10'	0'	8'	10'	47.60'	----------
43	5,237 S.F.	10'	0'	8'	10'	48.59'	----------
44	4,581 S.F.	10'	0'	8'	10'	46.15'	----------
45	4,656 S.F.	10'	0'	8'	10'	51.53'	----------
46	5,090 S.F.	10'	0'	8'	10'	46.87'	----------
47	5,516 S.F.	10'	0'	8'	10'	64.28'	----------
48	4,180 S.F.	10'	0'	8'	10'	45.91'	----------
49	5,242 S.F.	10'	0'	8'	10'	47.51'	----------
50	5,499 S.F.	10'	0'	8'	10'	22.92'	----------
51	3,872 S.F.	10'	0'	8'	10'	44.00'	----------
52	5,514 S.F.	10'	0'	8'	10'	47.85'	----------
53	3,872 S.F.	10'	0'	8'	10'	44.00'	----------
54	4,818 S.F.	10'	0'	8'	10'	45.82'	----------
55	4,004 S.F.	10'	0'	8'	10'	45.50'	----------
56	5,551 S.F.	10'	0'	8'	10'	50.77'	----------
57	5,246 S.F.	10'	0'	8'	10'	55.66'	----------
58	3,872 S.F.	10'	0'	8'	10'	44.00'	----------
59	4,229 S.F.	10'	0'	8'	10'	44.00'	----------
60	6,674 S.F.	10'	0'	8'	10'	92.70'	----------
61	4,072 S.F.	10'	0'	8'	10'	44.00'	----------
62	4,731 S.F.	10'	0'	8'	10'	57.09'	----------
63	4,055 S.F.	10'	0'	8'	10'	44.89'	----------
64	4,999 S.F.	10'	0'	8'	10'	66.31'	----------
65	3,872 S.F.	10'	0'	8'	10'	44.00'	----------
66	3,889 S.F.	10'	0'	8'	10'	44.00'	----------
67	4,677 S.F.	10'	0'	8'	10'	57.67'	----------
68	3,927 S.F.	10'	0'	8'	10'	44.00'	----------
69	5,324 S.F.	10'	0'	8'	10'	73.00'	----------
70	3,872 S.F.	10'	0'	8'	10'	44.00'	----------
71	3,976 S.F.	10'	0'	8'	10'	44.00'	----------
72	4,112 S.F.	10'	0'	8'	10'	45.50'	----------
73	4,112 S.F.	10'	0'	8'	10'	45.50'	----------
74	4,141 S.F.	10'	0'	8'	10'	45.82'	----------
75	4,082 S.F.	10'	0'	8'	10'	45.18'	----------
76	4,141 S.F.	10'	0'	8'	10'	45.82'	----------
77	4,141 S.F.	10'	0'	8'	10'	45.82'	----------
78	3,976 S.F.	10'	0'	8'	10'	44.00'	----------
79	5,947 S.F.	10'	0'	8'	10'	47.20'	----------
80	4,660 S.F.	10'	0'	8'	10'	43.65'	----------
81	4,793 S.F.	10'	0'	8'	10'	43.60'	----------
82	3,902 S.F.	10'	0'	8'	10'	44.00'	----------
83	4,825 S.F.	10'	0'	8'	10'	46.57'	----------
84	4,213 S.F.	10'	0'	8'	10'	45.50'	----------
85	4,213 S.F.	10'	0'	8'	10'	45.50'	----------
86	4,074 S.F.	10'	0'	8'	10'	44.00'	----------
87	4,871 S.F.	10'	0'	8'	10'	46.97'	----------
88	4,023 S.F.	10'	0'	8'	10'	45.44'	----------
89	4,023 S.F.	10'	0'	8'	10'	45.44'	----------
90	4,028 S.F.	10'	0'	8'	10'	44.00'	----------
91	3,960 S.F.	10'	0'	8'	10'	44.00'	----------
92	4,080 S.F.	10'	0'	8'	10'	45.33'	----------
93	4,080 S.F.	10'	0'	8'	10'	45.34'	----------
94	4,080 S.F.	10'	0'	8'	10'	45.33'	----------
95	4,080 S.F.	10'	0'	8'	10'	45.34'	----------
96	4,080 S.F.	10'	0'	8'	10'	45.33'	----------
97	4,080 S.F.	10'	0'	8'	10'	45.34'	----------
98	3,960 S.F.	10'	0'	8'	10'	44.00'	----------
99	----------	----------	20'	50'	35'	----------	----------

SURVEYOR

ALL LOTS IN THIS DEVELOPMENT COMPLY FULLY WITH THE ZONING REQUIREMENTS OF R - 40 EXCEPT FOR THE MODIFICATIONS AS STATED ABOVE. WE HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM AN ACTUAL SURVEY WAS COMPLETED BY O'CONNER - PETITO, L.L.C. ON DECEMBER 7, 2017 AND CONCRETE MONUMENTS ARE TO BE SET AS SHOWN.

JOSEPH M. PETITO P.L.S. LIC. No. 050335-1

ENGINEER:

I HEREBY CERTIFY THAT THE WATER SUPPLY (S) AND/OR SEWAGE DISPOSAL SYSTEM(S) FOR THIS PROJECT WERE DESIGNED BY ME OR UNDER MY DIRECTION. BASED UPON A CAREFUL AND THOROUGH STUDY OF THE SOIL, SITE AND GROUNDWATER CONDITIONS, ALL LOTS, AS PROPOSED, CONFORM TO THE SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES CONSTRUCTION STANDARDS IN EFFECT AS OF THIS DATE.

THOMAS C. DIXON, P.E. LIC. No. 80973

SITE DATA:

AREA OF SITE:

NORTH PARCEL:

AREA IN LOTS:	5.48 ACRES
AREA IN WIDENING (DED, TO T.O.H.)	0.13 ACRES
AREA IN H.O.A (OPEN SPACE):	5.09 ACRES
AREA IN H.O.A (ROAD):	2.05 ACRES
AREA IN GOLF ASSOCIATION LOTS:	113.39 ACRES
TOTAL AREA:	126.14 ACRES

SOUTH PARCEL:

AREA IN LOTS:	10.64 ACRES
AREA IN WIDENING (DED, TO T.O.H.)	0.01 ACRES
AREA IN H.O.A. (OPEN SPACE) :	8.70 ACRES
AREA IN H.O.A (ROAD):	3.64 ACRES
AREA IN GOLF ASSOCIATION LOTS:	5.43 ACRES
TOTAL AREA:	28.42 ACRES
TOTAL SITE AREA:	154.56 ACRES

LOTS

NORTHWEST: 36 LOTS
NORTHEAST: 14 LOTS
SOUTH 49 LOTS
TOTAL: 99 LOTS

ZONE: R-40
S.C.T.M.: 0400-014-04-1, 2
0400-015-01- 3.3 11, 12, 16, 19 AND P/O 22
SCHOOL DISTRICT: NORTHPORT
WATER DISTRICT: SUFFOLK COUNTY WATER AUTHORITY
FIRE DISTRICT: NORTHPORT
REFUSE DISTRICT: No. 02 - ALPHA CARTING
POST OFFICE: NORTHPORT

BOUNDARY INFORMATION WAS COMPILED FROM A TOPOGRAPHIC SURVEY PREPARED BY O'CONNOR-PETITO, LLP DATED JUNE 11, 2012, AND UPDATED DECEMBER 7, 2017

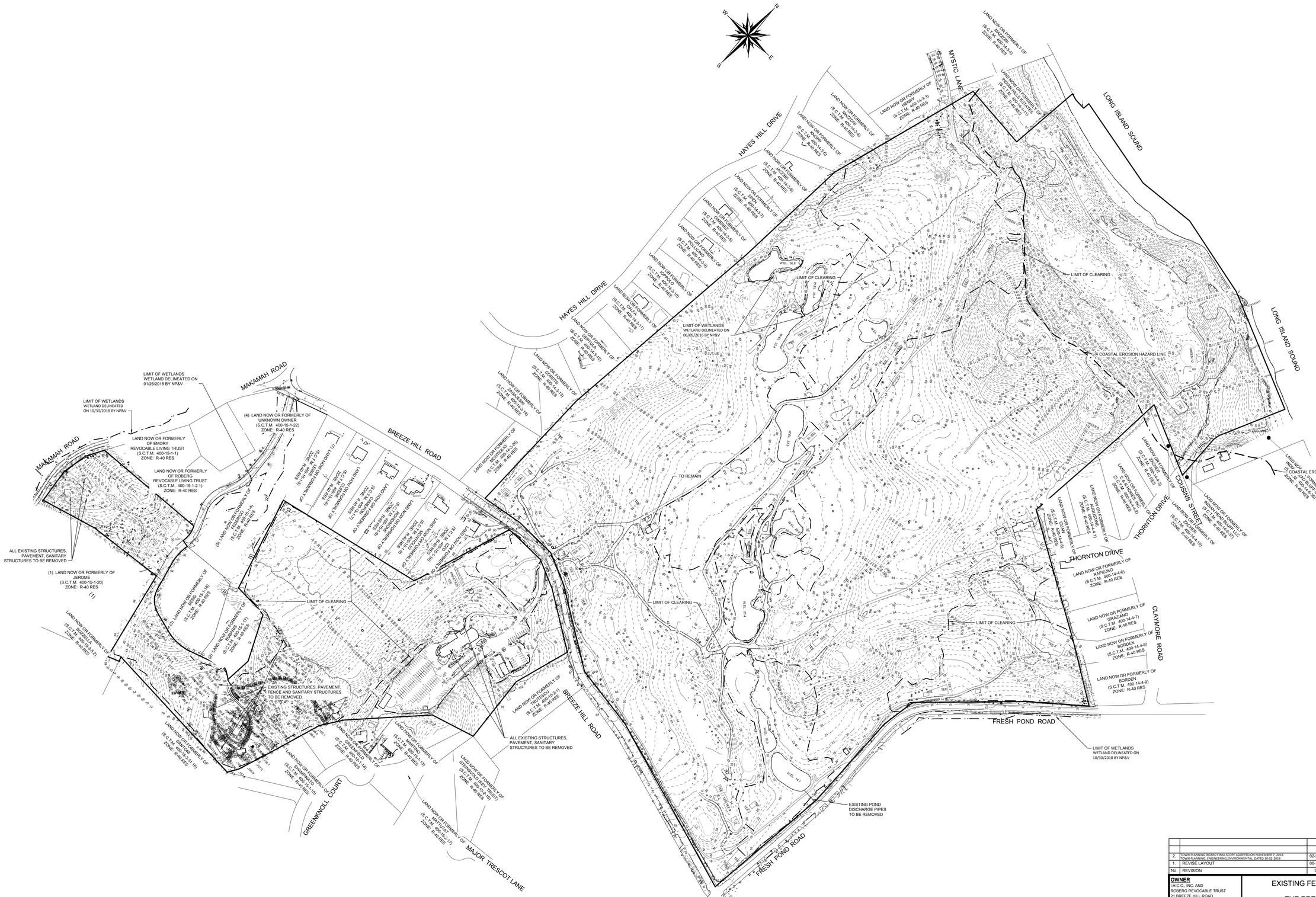
THIS PROPERTY LIES WHOLLY WITHIN ZONE X OF THE FEMA FLOOD INSURANCE RATE MAP. MAP ID 36103C0341H EFFECTIVE DATE 9-25-09. COMMUNITY: TOWN OF HUNTINGTON COMMUNITY No. 360796 PANEL 341 of 3626 MAP SUFFIX: H.

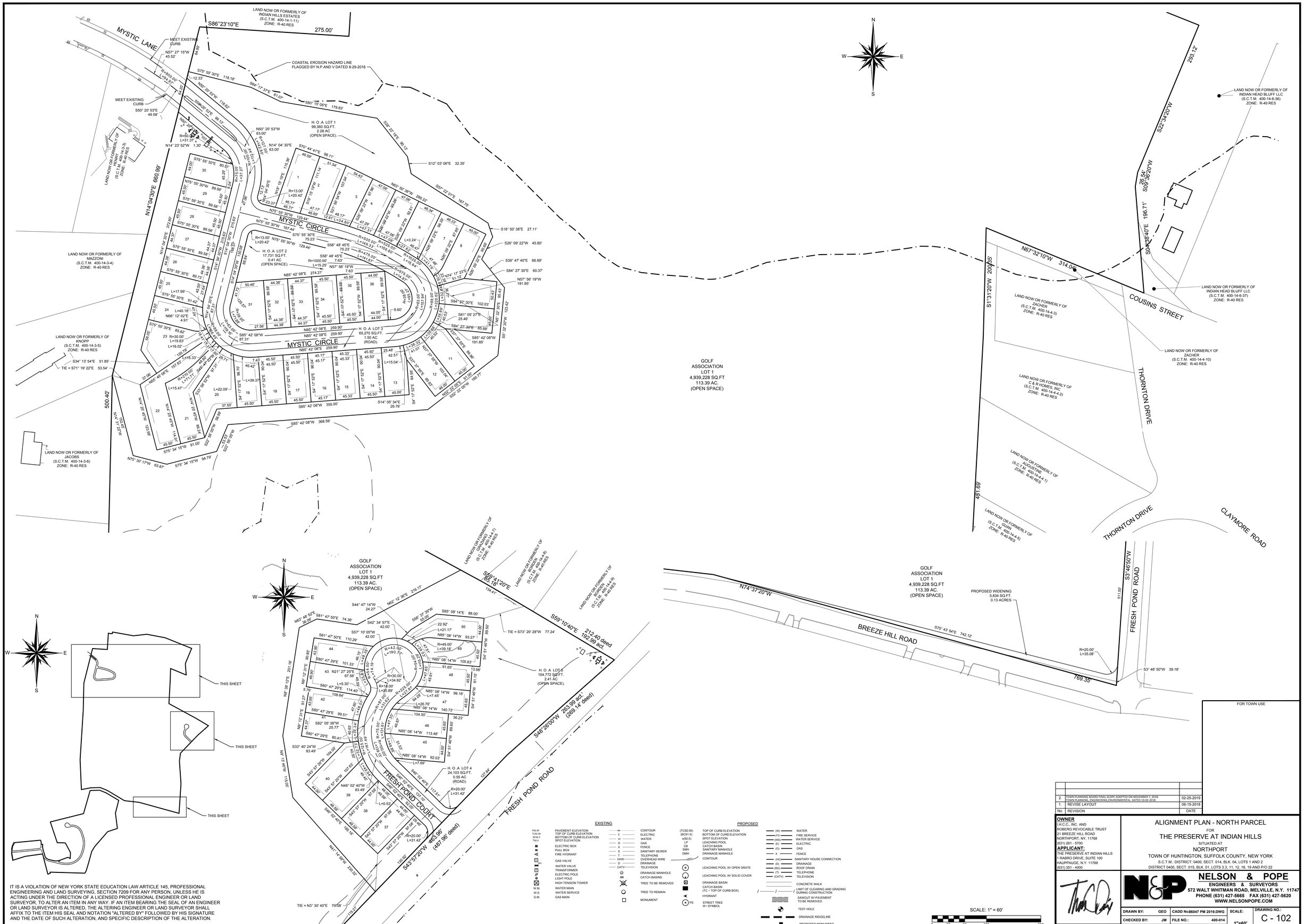
GENERAL NOTES:

1. ALL LOTS IN THIS DEVELOPMENT COMPLY FULLY WITH THE ZONING REQUIREMENTS OF R-40 RESIDENCE ZONING DISTRICT IN RESPECT TO AREA AND WIDTH. EXCEPT AS MODIFIED IN CHART SHOWN ON THIS SHEET
2. THE APPLICANT SHALL OBTAIN A DEMOLITION PERMIT FROM THE BUILDING DEPARTMENT PRIOR TO THE REMOVAL OF ANY STRUCTURE. STRUCTURES DEPICTED FOR REMOVAL SHALL BE REMOVED PRIOR TO THE SIGNING OF THE MAP AND PROOF OF COMPLIANCE SHALL BE SUBMITTED TO THE PLANNING DEPARTMENT.
3. ALL IMPROVEMENTS SHALL BE IN COMPLIANCE WITH THE LATEST TOWN OF HUNTINGTON SUBDIVISION AND SITE PLAN REGULATIONS.
4. A HIGHWAY WORK PERMIT / HOLD HARMLESS AGREEMENT SHALL BE OBTAINED FROM THE TOWN HIGHWAY OFFICE PRIOR TO ANY WORK PERFORMED IN AN EXISTING TOWN RIGHT OF WAY.
5. PRIOR TO THE START OF CONSTRUCTION, THE APPLICANT/OWNER/BUILDER/DEVELOPER SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH THE DEPARTMENT OF ENGINEERING SERVICES.
6. PRIOR TO THE START OF CONSTRUCTION, THE CLEARING AND GRADING LIMITS SHALL BE MARKED WITH BRIGHTLY COLORED CONSTRUCTION FENCE.
7. GRADING OF LOTS INCLUDING OF SLOPES ON THIS MAP SHALL BE LIMITED TO THE EXTENT OF CLEARING AND GRADING AS SHOWN ON THE APPROVED SITE PLANS. EACH INDIVIDUAL LOT SHALL BE TEMPORARILY AND/ OR PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING THE BACKFILLING OF THE FOUNDATION IN ACCORDANCE WITH HUNTINGTON, NEW YORK MUNICIPAL CODE, CHAPTER A202, § 8.4.
8. ALL PROPOSED UTILITIES SHALL BE INSTALLED UNDERGROUND.
9. ANY UTILITIES REQUIRED TO BE REMOVED RELOCATED DUE TO THE INSTALLATION OF THE REQUIRED IMPROVEMENTS SHALL BE DONE SO AT THE EXPENSE OF THE APPLICANT/DEVELOPER.
10. ALL TRAFFIC ROAD MARKINGS, ROAD SIGNS, AND LIGHT SIGNALS THAT MAY HAVE BEEN MOVED OR DAMAGED IN THE PROCESS OF CONSTRUCTION SHALL BE RESTORED AT THE APPLICANT'S EXPENSE TO AT LEAST THE SAME QUALITY AND CHARACTERISTICS THAT EXISTED BEFORE CONSTRUCTION BEGAN. THE APPLICANT SHALL BE FURTHER RESPONSIBLE TO INSURE THAT, IN THE ROADWAYS ADJACENT TO THE CONSTRUCTION SITE, THESE MARKINGS, SIGNS, AND SIGNALS, ARE MAINTAINED AND THAT PROTECTION OF TRAFFIC IS MAINTAINED DURING THE ENTIRE PERIOD OF CONSTRUCTION. IF REPLACEMENT OR UPGRADE IS REQUIRED, IT MUST BE APPROVED BY THE TOWN OF HUNTINGTON DEPARTMENT OF TRANSPORTATION AND TRAFFIC SAFETY.
11. FOLLOWING SUBDIVISION AND IMPLEMENTATION OF APPROVED PLANS, THE REMOVAL, DESTRUCTION OR ALTERATION OF TREES AND WOODLAND SHALL BE SUBJECT TO TOWN CODE CHAPTER 186- TREE PRESERVATION LAW.
12. NO PLOT MAY BE SUBDIVIDED OR CHANGED IN ANY MANNER AT ANY FUTURE DATE EXCEPT BY SPECIAL ACTION OF THE HUNTINGTON TOWN PLANNING BOARD.
13. DATUM: NAVD 88
14. ALL DEBRIS SHALL BE REMOVED FROM THE SITE IN ACCORDANCE WITH ALL STATE, COUNTY, TOWN, AND HEALTH DEPARTMENT REQUIREMENTS.
15. SELECT GRANULAR MATERIAL SHALL BE AS DEFINED IN SECTION 203 OF THE N.Y.S.D.O.T. STANDARD SPECIFICATIONS.
16. COMPACTION SHALL CONFORM TO SECTION 203 OF THE N.Y.S.D.O.T. STANDARD SPECIFICATIONS.
17. THERE ARE NO WELLS WITHIN 150' OF THE SITE.
18. THE TOWN RIGHT - OF - WAY IS NOT TO BE USED FOR STORAGE OR STAGING OF EQUIPMENT OR MATERIALS DURING CONSTRUCTION. THE DEVELOPER WILL BE RESPONSIBLE FOR MAINTAINING THE TOWN RIGHT - OF - WAY DURING CONSTRUCTION AND SHOULD INSTALL FENCING ALONG THE PROPERTY FRONTAGE TO LIMIT ACCESS FOR CONSTRUCTION VEHICLES TO DEFINED POINTS OF INGRESS/EGRESS.
19. AS-BUILT DRAINAGE AND AS-BUILT CURB PLANS SHALL BE SUBMITTED TO THE TOWN ENGINEER IN THE PROPER SEQUENCE IN ACCORDANCE WITH HUNTINGTON, NEW YORK, MUNICIPAL CODE, CHAPTER A202, § 7.3.2.
20. ALL EXISTING STRUCTURES, UTILITIES AND RELATED APPERTENCES TO BE REMOVED IN ACCORDANCE WITH TOWN AND S.C.D.H.S. REGULATIONS.

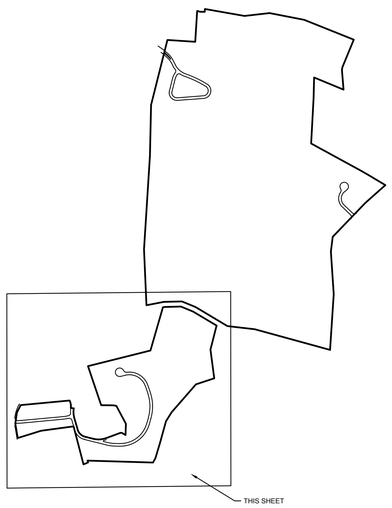
GENERAL NOTES

1. NELSON & POPE SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF THE PUBLIC OR CONTRACTOR'S EMPLOYEES, OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS THAT WILL BE REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT FROM START TO FINISH, INCLUDING BUT NOT LIMITED TO PERMITS FOR MUNICIPAL ROAD AND CURB CUT CONSTRUCTION; GAS, ELECTRIC, TELEPHONE, AND CABLE INSTALLATION; WATER MAIN AND SERVICE INSTALLATION; SITE CLEARING AND TREE REMOVAL; EXCAVATION; SITE IMPROVEMENTS; DEMOLITION; AND BUILDING CONSTRUCTION. CONTRACTOR SHALL COORDINATE THE REQUIRED UTILITY AND MUNICIPAL INSPECTIONS.
3. LOCATION OF ALL EXISTING UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO EXCAVATION. CONTRACTOR SHALL NOTIFY OWNER PRIOR TO COMMENCING CONSTRUCTION OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD LOCATIONS AND INFORMATION REPRESENTED ON PLAN, FOR DIRECTION. EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS IS BASED ON AVAILABLE INFORMATION AND FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING AND IDENTIFYING ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY


MAKAMAH ROAD
BREEZE HILL ROAD
HAYES HILL DRIVE
MYSTIC LANE
LONG ISLAND SOUND
THORNTON DRIVE
CLAYMORE ROAD
COUSINS STREET
FRESH POND ROAD
GREENKNOLL COURT
MAJOR TRESCOT LANE
LIMIT OF WETLANDS WETLAND DELINEATED ON 01/26/2018 BY NP&V
LIMIT OF WETLANDS WETLAND DELINEATED ON 10/30/2018 BY NP&V
LIMIT OF WETLANDS WETLAND DELINEATED ON 06/09/2016 BY NP&V
LIMIT OF CLEARING
COASTAL EROSION HAZARD LINE
TO REMAIN
ALL EXISTING STRUCTURES, PAVEMENT, SANITARY STRUCTURES TO BE REMOVED
EXISTING STRUCTURES, PAVEMENT, FENCE AND SANITARY STRUCTURES TO BE REMOVED
EXISTING POND DISCHARGE PIPES TO BE REMOVED
(1) LAND NOW OR FORMERLY OF JEROME (S.C.T.M. 400-15-1-20) ZONE: R-40 RES
(2) LAND NOW OR FORMERLY OF ROBERG (S.C.T.M. 400-15-1-17) ZONE: R-40 RES
(3) LAND NOW OR FORMERLY OF BERG (S.C.T.M. 400-15-1-18) ZONE: R-40 RES
(4) LAND NOW OR FORMERLY OF UNKNOWN OWNER (S.C.T.M. 400-15-1-22) ZONE: R-40 RES
(5) LAND NOW OR FORMERLY OF ZUCKERBERG (S.C.T.M. 400-15-1-4) ZONE: R-40 RES
LAND NOW OR FORMERLY OF EMORY REVOCABLE LIVING TRUST (S.C.T.M. 400-15-1-1) ZONE: R-40 RES
LAND NOW OR FORMERLY OF ROBERG REVOCABLE LIVING TRUST (S.C.T.M. 400-15-1-2.1) ZONE: R-40 RES
LAND NOW OR FORMERLY OF GRAZIANO (S.C.T.M. 400-14-4-7) ZONE: R-40 RES
LAND NOW OR FORMERLY OF BORDEN (S.C.T.M. 400-14-4-8) ZONE: R-40 RES
LAND NOW OR FORMERLY OF BORDEN (S.C.T.M. 400-14-4-9) ZONE: R-40 RES
LAND NOW OR FORMERLY OF RAPAJKO (S.C.T.M. 400-14-4-6) ZONE: R-40 RES
LAND NOW OR FORMERLY OF TRUESDELL (S.C.T.M. 400-15-2-1) ZONE: R-40 RES
LAND NOW OR FORMERLY OF STRICKLAND (S.C.T.M. 400-15-2-28) ZONE: R-40 RES
LAND NOW OR FORMERLY OF MATTIA (S.C.T.M. 400-15-2-27) ZONE: R-40 RES
LAND NOW OR FORMERLY OF STRICKLAND (S.C.T.M. 400-15-2-29) ZONE: R-40 RES
LAND NOW OR FORMERLY OF HENRY (S.C.T.M. 400-14-3-3) ZONE: R-40 RES
LAND NOW OR FORMERLY OF MOORE (S.C.T.M. 400-14-3-4) ZONE: R-40 RES
LAND NOW OR FORMERLY OF MOORE (S.C.T.M. 400-14-3-5) ZONE: R-40 RES
LAND NOW OR FORMERLY OF GREEN (S.C.T.M. 400-14-3-6) ZONE: R-40 RES
LAND NOW OR FORMERLY OF GREEN (S.C.T.M. 400-14-3-7) ZONE: R-40 RES
LAND NOW OR FORMERLY OF GREEN (S.C.T.M.


MYSTIC LANE
MEET EXISTING CURB
N57° 27' 15"W 45.52'
R=450.00' L=94.97'
MEET EXISTING CURB
S50° 20' 53"E 49.58'
LAND NOW OR FORMERLY OF LEVERETT (S.C.T.M. 400-14-3) ZONE: R-40 RES
LAND NOW OR FORMERLY OF INDIAN HILLS ESTATES (S.C.T.M. 400-14-1-11) ZONE: R-40 RES
S86°23'10"E 275.00'
COASTAL EROSION HAZARD LINE FLAGGED BY N.P.AND V DATED 8-29-2018
S75° 55' 30"E 118.18'
S84° 17' 37"E 61.07'
S80° 15' 06"E 179.83'
S26° 22' 16"E 99.13'
S12° 03' 06"E 32.35'
S83° 50' 38"W 286.22'
S82° 22' 01"E 197.76'
S18° 50' 38"E 27.11'
S26° 09' 22"W 45.80'
S38° 47' 40"E 66.89'
S84° 27' 30"E 60.37'
N57° 56' 19"W 191.85'
S50° 32' 30"W 123.42'
S85° 42' 08"W 191.85'
S61° 05' 27"E 25.46'
S84° 27' 30"E 85.88'
N85° 42' 08"E 274.21'
N85° 42' 08"E 259.90'
S85° 42' 08"W 87.31'
S85° 42' 08"W 355.00'
S14° 05' 34"E 26.76'
S85° 42' 08"W 368.58'
N14° 04' 30"E 660.99'
N14° 23' 52"W 1.30'
N50° 20' 53"W 63.00'
N14° 04' 30"E 63.00'
S70° 44' 47"E 98.11'
H. O. A LOT 1 99,360 SQ.FT. 2.28 AC (OPEN SPACE).
MYSTIC CIRCLE
H. O. A LOT 2 17,731 SQ.FT. 0.41 AC. (OPEN SPACE).
H. O. A LOT 3 65,270 SQ.FT. 1.50 AC (ROAD).
MYSTIC CIRCLE
H. O. A LOT 4 24,103 SQ.FT. 0.55 AC. (ROAD).
GOLF ASSOCIATION LOT 1 4,939,228 SQ.FT 113.39 AC. (OPEN SPACE)
LAND NOW OR FORMERLY OF MAZZONI (S.C.T.M. 400-14-3-4) ZONE: R-40 RES
LAND NOW OR FORMERLY OF KNOPP (S.C.T.M. 400-14-3-5) ZONE: R-40 RES
S34° 13' 54"E 51.85'
TIE = S71° 19' 22"E 53.54'
LAND NOW OR FORMERLY OF JACOBS (S.C.T.M. 400-14-3-6) ZONE: R-40 RES
N75° 30' 17"W 63.87'
S75° 34' 15"W 94.79'
S75° 34' 15"W 91.00'
N14° 31' 45"W 123.69'
N14° 25' 40"W 114.89'
N14° 25' 40"W 89.34'
S22° 56' 05"W 10.53'
S22° 56' 05"W 56.89'
500.40'
N65° 46' 08"E 157.53'
S75° 55' 30"E 85.82'
N66° 12' 02"E 4.91'
S75° 55' 30"E 91.42'
S75° 55' 30"E 89.71'
N14° 04' 30"E 27.66'
N14° 04' 30"E 215.63'
N14° 04' 30"E 372.80'
N14° 04' 30"E 215.63'
N14° 04' 30"E 88.64'
N14° 04' 30"E 88.64

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.





BREEZE HILL ROAD

MAKAMAH ROAD

MAKAMAH PATH

PROPOSED WIDENING TO BE DEDICATED TO THE TOWN OF HUNTINGTON AREA: 575 SQ.FT. 0.01 AC.

H.O.A. LOT 8 40,141 SQ.FT. 0.92 AC (OPEN SPACE).

H.O.A. LOT 7 49,258 SQ.FT. 1.13 AC (OPEN SPACE).

H.O.A LOT 9 197,152 SQ.FT 4.53 AC. (OPEN SPACE)

H.O.A LOT 10 158,438 SQ.FT. 3.64 AC (ROAD).

HOMEOWNERS ASSOCIATION LOT 6 91,836 SQ.FT. 2.11 AC. (OPEN SPACE).

GOLF COURSE ASSOCIATION LOT 2 166,879 SQ.FT. 3.83 AC. (OPEN SPACE)

GOLF COURSE ASSOCIATION LOT 3 69,497 SQ.FT. 1.60 AC (OPEN SPACE).

99
254,400 SQ.FT.
5.84 ACRES

INDIAN HILLS GOLF COURSE CLUB HOUSE

COMMUNITY GOLF PRO SHOP TO REMAIN

EXISTING STORAGE BUILDING TO REMAIN

PHIL'S COURT

GREENWOOD COURT

LAND NOW OR FORMERLY OF EMORY REVOCABLE LIVING TRUST (S.C.T.M. 400-15-1-1) ZONE: R-40 RES

LAND NOW OR FORMERLY OF ROBERG REVOCABLE LIVING TRUST (S.C.T.M. 400-15-1-2.1) ZONE: R-40 RES

LAND NOW OR FORMERLY OF UNKNOWN OWNER (S.C.T.M. 400-15-1-22) ZONE: R-40 RES

LAND NOW OR FORMERLY OF FEDERICO (S.C.T.M. 400-15-1-4) ZONE: R-40 RES

LAND NOW OR FORMERLY OF JEROME (S.C.T.M. 400-15-1-20) ZONE: R-40 RES

LAND NOW OR FORMERLY OF BERG (S.C.T.M. 400-15-1-18) ZONE: R-40 RES

LAND NOW OR FORMERLY OF BUBARIS (S.C.T.M. 400-15-1-17) ZONE: R-40 RES

LAND NOW OR FORMERLY OF BOZZELLA (S.C.T.M. 400-15-3-8.2) ZONE: R-40 RES

LAND NOW OR FORMERLY OF DANTONI (S.C.T.M. 400-15-3-31.16) ZONE: R-40 RES

LAND NOW OR FORMERLY OF MARTINO (S.C.T.M. 400-15-1-13) ZONE: R-40 RES

LAND NOW OR FORMERLY OF MATTUTAT (S.C.T.M. 400-15-2-17) ZONE: R-40 RES

LAND NOW OR FORMERLY OF GREENFIELD (S.C.T.M. 400-15-1-14) ZONE: R-40 RES

LAND NOW OR FORMERLY OF SHAMPINATO (S.C.T.M. 400-15-1-15) ZONE: R-40 RES

LAND NOW OR FORMERLY OF STEINSVOLD (REV. TRUST) (S.C.T.M. 400-15-2-16) ZONE: R-40 RES

LAND NOW OR FORMERLY OF MARTINO (S.C.T.M. 400-15-2-23) (S.C.T.M. 400-15-2-11) ZONE: R-40 RES

LAND NOW OR FORMERLY OF MARTINO (S.C.T.M. 400-15-2-23) ZONE: R-40 RES

LAND NOW OR FORMERLY OF MARTINO (S.C.T.M. 400-15-2-24) ZONE: R-40 RES

LAND NOW OR FORMERLY OF MARTINO (S.C.T.M. 400-15-2-25) ZONE: R-40 RES

LAND NOW OR FORMERLY OF MARTINO (S.C.T.M.



SIGN LEGEND

NOTES
1. ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (NYS MUTCD).
2. ALL SIGNS SHALL BE INSTALLED PRIOR TO RELEASE OF THE PERFORMANCE BOND FOR EACH APPLICABLE SECTION.
3. ALL SIGNS TO BE INSTALLED ON PUBLIC OR COMMON PROPERTY

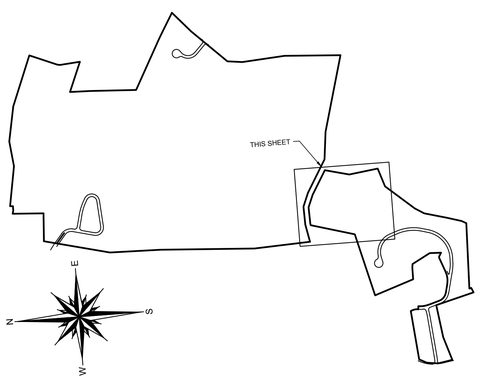
⊤ DENOTES WARNING OR REGULATORY SIGN
+ DENOTES STREET NAME SIGN ASSEMBLY

SIGN	NYS MUTCD	SIZE	SYMBOL
ONE WAY	R6-1R	18" x 24"	1
STOP	R1-1	30" x 30"	2
NO SKATEBOARDING	R5-1	30" x 30"	3
	R1-5L	24" x 24"	4
RESERVED PARKING VAN ACCESSIBLE	R7-8	12" x 18"	5
NO PARKING ANY TIME	R7-1	12" x 18"	6
NO STOPPING BETWEEN SIGNS	R7-14R	12" x 18"	7
NO STOPPING BETWEEN SIGNS	R7-14L	12" x 18"	8

PARKING CALCULATION
GOLF COURSE CLUBHOUSE
REQUIRED:
DINNING AREA: 2,996 SQ.FT. x 1 / 50 SQ.FT. = 60 STALLS
GOLF COURSE: 18 HOLES x 3 / HOLE = 54 STALLS
DRIVING RANGE: 12 POSITIONS x 1 / 1 = 12 STALLS

COMMUNITY GOLF PRO SHOP
REQUIRED:
3,750 SQ.FT. x 1 / 200 SQ.FT. = 19 STALLS
TOTAL REQUIRED = 145 STALLS

TOTAL PROVIDED: 146 STALLS



FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

CLUBHOUSE ALIGNMENT PLAN
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY: GEO	CADD No:86047 PM 2019.DWG	SCALE:	DRAWING NO.: C - 104
CHECKED BY: JM	FILE NO.: 400-014	1"=30'	
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 5 OF 43

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EXISTING

P82.59	PAVEMENT ELEVATION	94	CONTOUR
T(92.59	TOP OF CURB ELEVATION	E	ELECTRIC
B(92.2	BOTTOM OF CURB ELEVATION	W	WATER
782.0	SPOT ELEVATION	G	GAS
	ELECTRIC BOX	X	FENCE
	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
	GAS VALVE	OHW	OVERHEAD WIRE
	WATER VALVE	D	DRAINAGE
	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		DECIDUOUS TREE TO REMAIN
W.S.	WATER SERVICE		EVERGREEN TREE TO REMAIN
G.M.	GAS MAIN		MONUMENT

PROPOSED

(TC92.00)	TOP OF CURB ELEVATION
(BC91.5)	BOTTOM OF CURB ELEVATION
x(92.0)	SPOT ELEVATION
LP	LEACHING POOL
CB	CATCH BASIN
SMH	SANITARY MANHOLE
DMH	DRAINAGE MANHOLE
(93')	CONTOUR
	LEACHING POOL W/ OPEN GRATE
	LEACHING POOL W/ SOLID COVER
	DRAINAGE BASIN
	CATCH BASIN (TC - TOP OF CURB BOX)
	HYDRANT
PS	STREET TREE W/ SYMBOL

(W)	WATER
(FS)	FIRE SERVICE
(WS)	WATER SERVICE
(E)	ELECTRIC
(G)	GAS
X	FENCE
(HC)	SANITARY HOUSE CONNECTION
(D)	DRAINAGE
(RD)	ROOF DRAIN
(T)	TELEPHONE
(CATV)	TELEVISION
	CONCRETE WALK
	LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
	SAWCUT W/ PAVEMENT TO BE REMOVED
	TEST HOLE
	DRAINAGE RIDGELINE
	PROPOSED MONUMENT

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

THIS SHEET

SCALE: 1" = 30'

0 30 60 100

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018 TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

FOR TOWN USE

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

GRADING PLAN 1
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY: GEO	CADD No86047 PM 2019.DWG	SCALE:	DRAWING NO.: C - 105
CHECKED BY: JM	FILE NO.: 400-014	1"=30'	
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 6 OF 43

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IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

EXISTING WETLANDS LINE

100' SETBACK FROM WETLANDS LINE

PROPOSED SANITARY SYSTEM LOCATION

RECHARGE BASIN
H.W. 36.0
BOTTOM 25 / 23
176,000 CF STORAGE

BOTTOM ELEVATION 25.0

BOTTOM ELEVATION 23.0

DEPRESSION
H.W. 34.0
BOTTOM 31.0

POND
H.W. 34.0
N.W. 31.0
BOTTOM 27.0
173,000 CF STORAGE

PROPOSED TREE

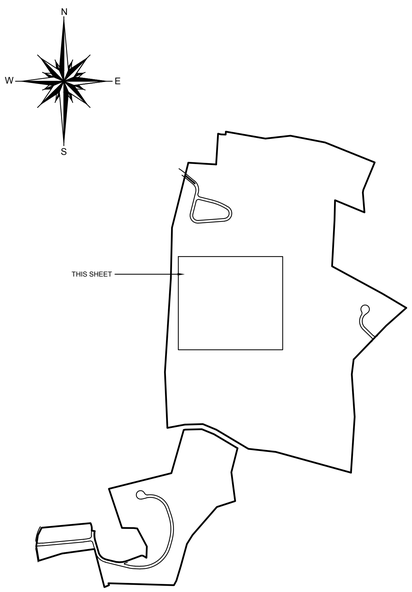
POND
H.W. 30.0
H.W. 28.0
BOTTOM 24.0
52,600 CF STORAGE

DEPRESSION
H.W. 34.0
BOTTOM 31.0

POND
H.W. 26.0
N.W. 24.0
BOTTOM 20.0
70,200 CF STORAGE

SB - 31

SB - 32



EXISTING

P92.59	PAVEMENT ELEVATION	94	CONTOUR
TC92.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC92.2	BOTTOM OF CURB ELEVATION	W	WATER
742.0	SPOT ELEVATION	G	GAS
	ELECTRIC BOX	X	FENCE
	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
	GAS VALVE	OHW	OVERHEAD WIRE
WV	WATER VALVE	D	DRAINAGE
	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		
W.S.	WATER SERVICE		DECIDUOUS TREE TO REMAIN
G.M.	GAS MAIN		EVERGREEN TREE TO REMAIN
			MONUMENT

PROPOSED

(TC92.00)	TOP OF CURB ELEVATION	(W)	WATER
(BC91.5)	BOTTOM OF CURB ELEVATION	(FS)	FIRE SERVICE
x(92.0)	SPOT ELEVATION	(WS)	WATER SERVICE
LP	LEACHING POOL	(E)	ELECTRIC
CB	CATCH BASIN	(G)	GAS
SMH	SANITARY MANHOLE	(X)	FENCE
DMH	DRAINAGE MANHOLE		SANITARY HOUSE CONNECTION
(93)	CONTOUR	(HC)	DRAINAGE
	LEACHING POOL W/ OPEN GRATE	(D)	ROOF DRAIN
	LEACHING POOL W/ SOLID COVER	(RD)	TELEPHONE
	DRAINAGE BASIN	(T)	TELEVISION
	CATCH BASIN (TC = TOP OF CURB BOX)	(CATV)	CONCRETE WALK
	HYDRANT		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
PS	STREET TREE W / SYMBOL		SAWCUT W/ PAVEMENT TO BE REMOVED
			TEST HOLE
			DRAINAGE RIDGELINE
			PROPOSED MONUMENT

SCALE: 1" = 40'

0 40 60 100

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC AND
ROSBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

GRADING PLAN 2

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3.1, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY: GEO	CADD No:86047 PM 2019.DWG	SCALE:	DRAWING NO.:
CHECKED BY: JM	FILE NO.: 400-014	1"=40'	C - 106
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 7 OF 43

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POND
H.W. 34.0
N.W. 31.0
BOTTOM 27.0
173,000 CF STORAGE

DEPRESSION
H.W. 34.0
BOTTOM 31.0

POND
H.W. 30.0
H.W. 28.0
BOTTOM 24.0
52,600 CF STORAGE

POND
H.W. 26.0
N.W. 24.0
BOTTOM 20.0
70,200 CF STORAGE

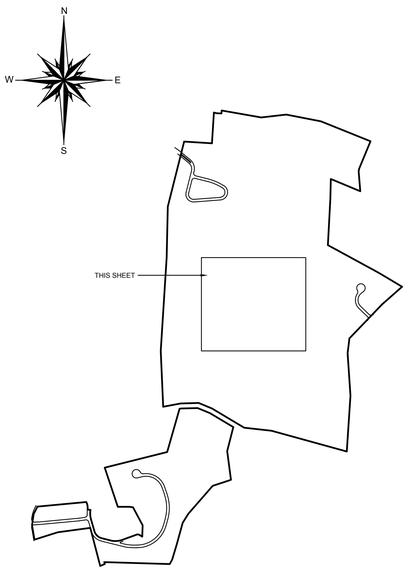
POND
H.W. 15.0
N.W. 12.0
BOTTOM 6.0
270,000 CF STORAGE

PROPOSED TREE

PROPOSED SANITARY SYSTEM LOCATION

EXISTING OVERFLOW STRUCTURE TO REMAIN

N87°37'00"W 143.92'



EXISTING

P52.59	PAVEMENT ELEVATION	94	CONTOUR
TC60.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC60.2	BOTTOM OF CURB ELEVATION	W	WATER
×52.2	SPOT ELEVATION	G	GAS
CB	ELECTRIC BOX	X	FENCE
	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
GV	GAS VALVE	OHW	OVERHEAD WIRE
WV	WATER VALVE	D	DRAINAGE
	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		DECIDUOUS TREE TO REMAIN
W.S.	WATER SERVICE		EVERGREEN TREE TO REMAIN
G.M.	GAS MAIN		MONUMENT

PROPOSED

(TC92.00)	TOP OF CURB ELEVATION	(W)	WATER
(BC91.5)	BOTTOM OF CURB ELEVATION	(FS)	FIRE SERVICE
×(92.0)	SPOT ELEVATION	(WS)	WATER SERVICE
LP	LEACHING POOL	(E)	ELECTRIC
CB	CATCH BASIN	(G)	GAS
SMH	SANITARY MANHOLE	X	FENCE
DMH	DRAINAGE MANHOLE	(HC)	SANITARY HOUSE CONNECTION
(93)	CONTOUR	(D)	DRAINAGE
	LEACHING POOL W/ OPEN GRATE	(RD)	ROOF DRAIN
	LEACHING POOL W/ SOLID COVER	(T)	TELEPHONE
	DRAINAGE BASIN	(CATV)	TELEVISION
	CATCH BASIN (TC – TOP OF CURB BOX)		CONCRETE WALK
	HYDRANT		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
PS	STREET TREE W / SYMBOL		SAWCUT W/ PAVEMENT TO BE REMOVED
			TEST HOLE
			DRAINAGE RIDGELINE
			PROPOSED MONUMENT

SCALE: 1" = 40'

0 40 60 100

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

GRADING PLAN 3

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3.1, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
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DRAWN BY: GEO	CADD No:86047 PM 2019.DWG	SCALE: 1"=40'	DRAWING NO.: C - 107
CHECKED BY: JM	FILE NO.: 400-014		
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 8 OF 43

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IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

POND
H.W. 26.0
N.W. 24.0
BOTTOM 20.0
70,200 CF STORAGE

EXISTING OVERFLOW STRUCTURE TO REMAIN

POND
H.W. 15.0
N.W. 12.0
BOTTOM 6.0
270,000 CF STORAGE

EXISTING POND DISCHARGE PIPES SHALL BE REMOVED

PROPOSED TEE

N83°31'20"W 272.00'

N74°37'20"W

S75° 43' 54"E 742.12'

769.35'

S3°46'50"W 550.65'

S3°54'20"E 421.12'

S7°09'00"W 146.9 (116.04' dec

R=20.00'
L=35.08'

S3° 46' 50"W 39.18'

BREEZE HILL ROAD

FRESH POND ROAD

SCALE: 1" = 40'
0 40 60 100

N
W E
S

THIS SHEET

EXISTING

PSE 59	PAVEMENT ELEVATION	ss	CONTOUR
TC60.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC60.2	BOTTOM OF CURB ELEVATION	W	WATER
782.5	SPOT ELEVATION	G	GAS
	ELECTRIC BOX	X	FENCE
	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
	GAS VALVE	OHW	OVERHEAD WIRE
WV	WATER VALVE	D	DRAINAGE
	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		
W.S.	WATER SERVICE		DECIDUOUS TREE TO REMAIN
G.M.	GAS MAIN		EVERGREEN TREE TO REMAIN
			MONUMENT

PROPOSED

(TC92.09)	TOP OF CURB ELEVATION	(W)	WATER
(BC91.5)	BOTTOM OF CURB ELEVATION	(FS)	FIRE SERVICE
x92.0)	SPOT ELEVATION	(WS)	WATER SERVICE
LP	LEACHING POOL	(E)	ELECTRIC
CB	CATCH BASIN	(G)	GAS
SMH	SANITARY MANHOLE	X	FENCE
DMH	DRAINAGE MANHOLE	(HC)	SANITARY HOUSE CONNECTION
x93)	CONTOUR	(D)	DRAINAGE
	LEACHING POOL W/ OPEN GRATE	(RD)	ROOF DRAIN
	LEACHING POOL W/ SOLID COVER	(T)	TELEPHONE
	DRAINAGE BASIN	(CATV)	TELEVISION
	CATCH BASIN		CONCRETE WALK
	(TC = TOP OF CURB BOX)		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
	HYDRANT		SAWCUT W/ PAVEMENT TO BE REMOVED
PS	STREET TREE W / SYMBOL		TEST HOLE
			DRAINAGE RIDGELINE
			PROPOSED MONUMENT

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCDPF ADOPTED ON NOVEMBER 7,2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

GRADING PLAN 4

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY:	GEO	CADD No86047 PM 2019.DWG		SCALE:	DRAWING NO.:
CHECKED BY:	JM	FILE NO.:	400-014	1"=40'	C - 108
DATE: DECEMBER, 2017		PROJECT NO.:	86047		SHEET NO.: 9 OF 43

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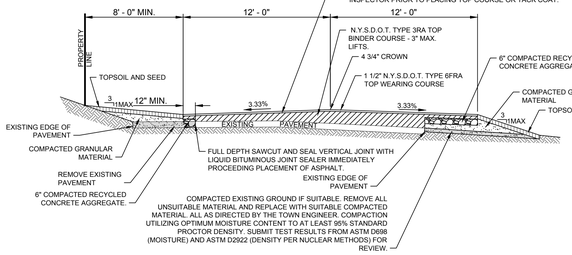
EXISTING

P92.59	PAVEMENT ELEVATION		CONTOUR
TC92.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC92.2	BOTTOM OF CURB ELEVATION	W	WATER
X92.0	SPOT ELEVATION	G	GAS
	ELECTRIC BOX	X	FENCE
	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
	GAS VALVE	OHW	OVERHEAD WIRE
W	WATER VALVE	D	DRAINAGE
	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		
W.S.	WATER SERVICE		DECIDUOUS TREE TO REMAIN
G.M.	GAS MAIN		EVERGREEN TREE TO REMAIN
			MONUMENT

PROPOSED

(TC92.00)	TOP OF CURB ELEVATION	(W)	WATER
(BC91.5)	BOTTOM OF CURB ELEVATION	(FS)	FIRE SERVICE
x(92.0)	SPOT ELEVATION	(WS)	WATER SERVICE
LP	LEACHING POOL	(E)	ELECTRIC
CB	CATCH BASIN	(G)	GAS
SMH	SANITARY MANHOLE	X	FENCE
DMH	DRAINAGE MANHOLE	(SC)	SANITARY HOUSE CONNECTION
(x92)	CONTOUR	(D)	DRAINAGE
	LEACHING POOL W/ OPEN GRATE	(RD)	ROOF DRAIN
	LEACHING POOL W/ SOLID COVER	(T)	TELEPHONE
	DRAINAGE BASIN	(CATV)	TELEVISION
	CATCH BASIN (TC – TOP OF CURB BOX)		CONCRETE WALK
	HYDRANT		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
PS	STREET TREE W / SYMBOL		SAWCUT W/ PAVEMENT TO BE REMOVED
			TEST HOLE
			DRAINAGE RIDGELINE
			PROPOSED MONUMENT

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.



TACK COAT (PER N.Y.S.D.O.T. ITEM 407.0101) EMULSIFIED ASPHALT PLACED AT A RATE OF BETWEEN 0.05 AND 0.15 GAL/SQ.YD. USE IF TOP IS PLACED MORE THAN 6 MONTHS AFTER BINDER IS INSTALLED. SURFACE TO BE CLEAN AND DRY AND INSPECTED BY THE TOWN ENGINEERING INSPECTOR PRIOR TO PLACING TOP COURSE OR TACK COAT.

FRESH POND ROAD
ROAD IMPROVEMENT SECTION
NOT TO SCALE

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROSBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

GRADING PLAN 5
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY:	GEO	CADD No:86047 PM 2019.DWG	SCALE:
CHECKED BY:	JM	FILE NO.: 400-014	1"=30'
DATE: DECEMBER, 2017		PROJECT NO.: 86047	

DRAWING NO.: C - 109
SHEET NO.10 OF 43

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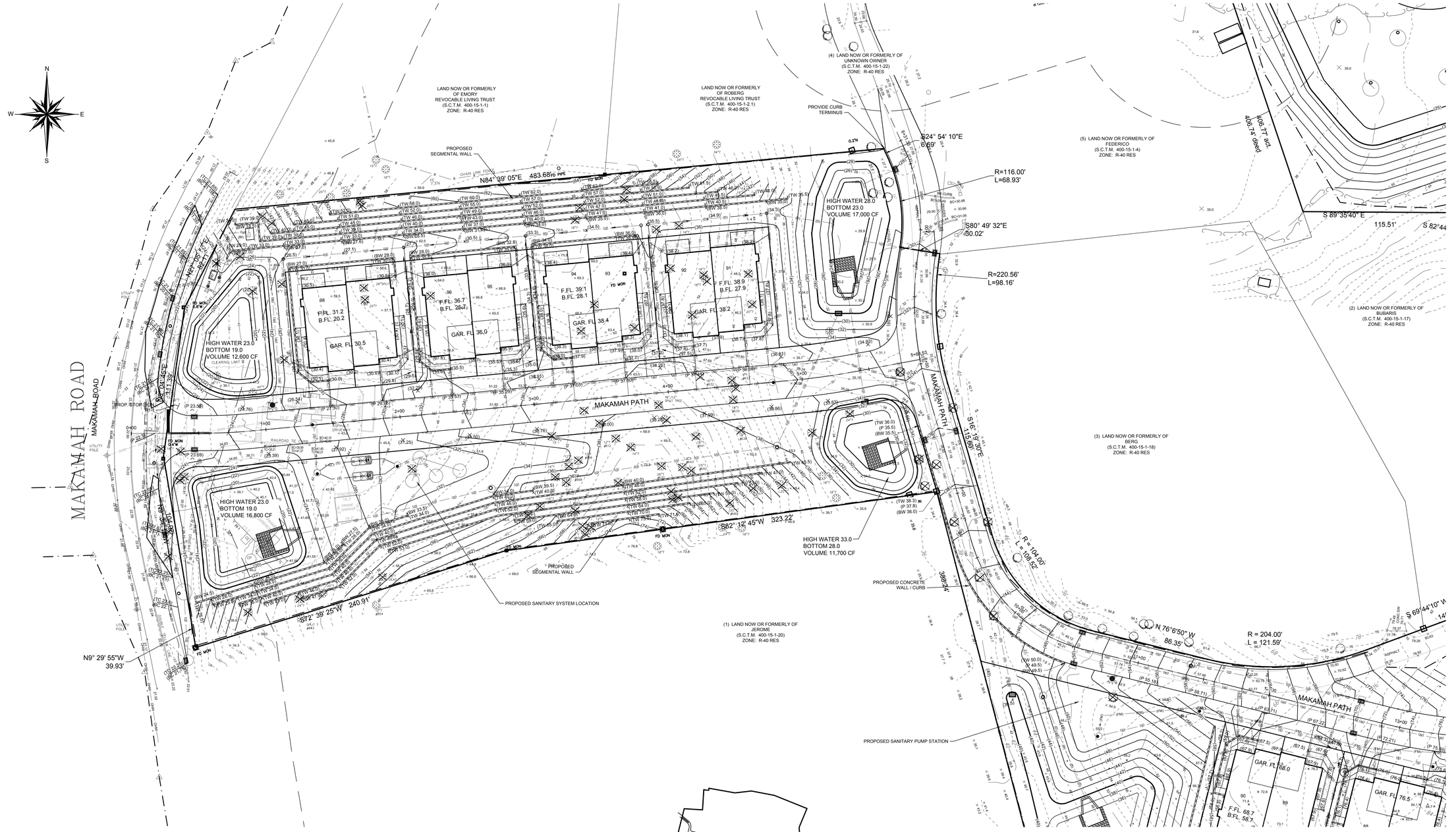
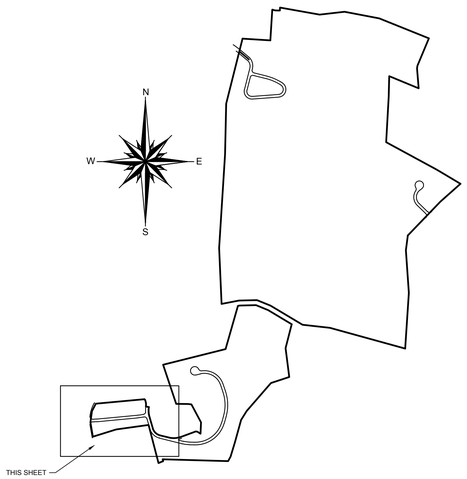


EXISTING

PS2.59	PAVEMENT ELEVATION	94	CONTOUR
TC92.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC92.2	BOTTOM OF CURB ELEVATION	W	WATER
X92.0	SPOT ELEVATION	G	GAS
	ELECTRIC BOX	X	FENCE
	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
	GAS VALVE	OHW	OVERHEAD WIRE
	WATER VALVE	D	DRAINAGE
	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		
W.S.	WATER SERVICE		DECIDUOUS TREE TO REMAIN
G.M.	GAS MAIN		EVERGREEN TREE TO REMAIN
			MONUMENT

PROPOSED

(TC92.00)	TOP OF CURB ELEVATION	(W)	WATER
(BC91.5)	BOTTOM OF CURB ELEVATION	(FS)	FIRE SERVICE
x(92.0)	SPOT ELEVATION	(WS)	WATER SERVICE
LP	LEACHING POOL	(E)	ELECTRIC
CB	CATCH BASIN	(G)	GAS
SMH	SANITARY MANHOLE	X	FENCE
DMH	DRAINAGE MANHOLE	(HC)	SANITARY HOUSE CONNECTION
(93)	CONTOUR	(D)	DRAINAGE
	LEACHING POOL W/ OPEN GRATE	(RD)	ROOF DRAIN
	LEACHING POOL W/ SOLID COVER	(T)	TELEPHONE
	DRAINAGE BASIN	(CATV)	TELEVISION
	CATCH BASIN (TC – TOP OF CURB BOX)		CONCRETE WALK
	HYDRANT		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
PS	STREET TREE W / SYMBOL		SAWCUT W/ PAVEMENT TO BE REMOVED
	TREE TO BE REMOVED		TEST HOLE
			DRAINAGE RIDGELINE
			PROPOSED MONUMENT



IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCDPF ADOPTED ON NOVEMBER 7, 2018 TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700
APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

GRADING PLAN 6
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY:	GEO	CADD No86047 PM 2019.DWG	SCALE:	DRAWING NO.:	
CHECKED BY:	JM	FILE NO.: 400-014	1"=30'	C - 110	
DATE: DECEMBER, 2017		PROJECT NO.: 86047		SHEET NO.11 OF 43	

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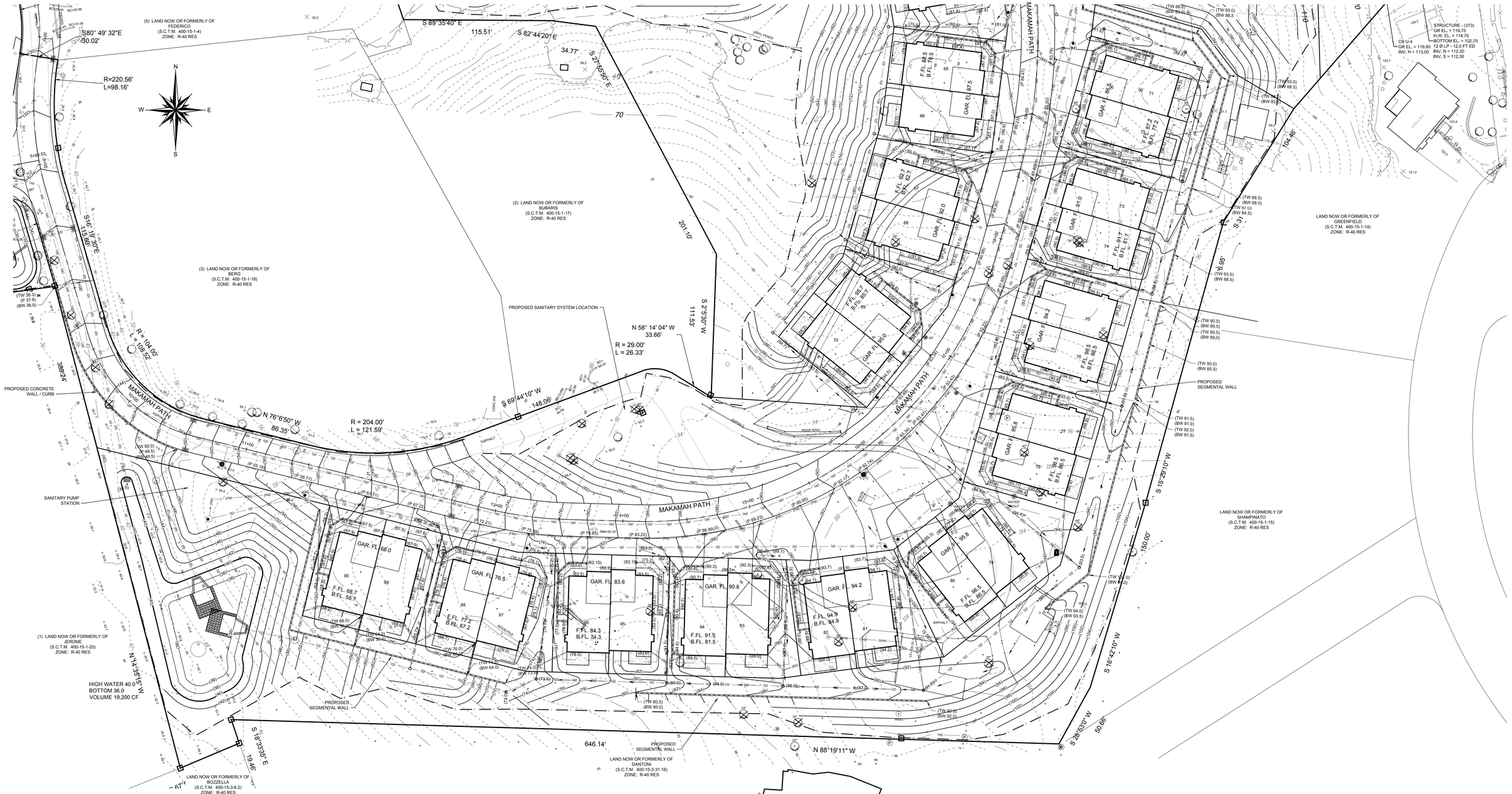

EXISTING

PS2.59	PAVEMENT ELEVATION	94	CONTOUR
TC92.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC91.5	BOTTOM OF CURB ELEVATION	W	WATER
x92.0	SPOT ELEVATION	G	GAS
	ELECTRIC BOX	X	FENCE
	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
	GAS VALVE	OHW	OVERHEAD WIRE
	WATER VALVE	D	DRAINAGE
	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		DECIDUOUS TREE TO REMAIN
W.S.	WATER SERVICE		EVERGREEN TREE TO REMAIN
G.M.	GAS MAIN		MONUMENT

PROPOSED

(TC92.00)	TOP OF CURB ELEVATION	(W)	WATER
(BC91.5)	BOTTOM OF CURB ELEVATION	(FS)	FIRE SERVICE
x92.0	SPOT ELEVATION	(WS)	WATER SERVICE
LP	LEACHING POOL	(E)	ELECTRIC
CB	CATCH BASIN	(G)	GAS
SMH	SANITARY MANHOLE	X	FENCE
DMH	DRAINAGE MANHOLE	(SHC)	SANITARY HOUSE CONNECTION
(93)	CONTOUR	(D)	DRAINAGE
	LEACHING POOL W/ OPEN GRATE	(RD)	ROOF DRAIN
	LEACHING POOL W/ SOLID COVER	(T)	TELEPHONE
	DRAINAGE BASIN	(CATV)	TELEVISION
	CATCH BASIN (TC – TOP OF CURB BOX)		CONCRETE WALK
	HYDRANT		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
PS	STREET TREE W / SYMBOL		SAWCUT W/ PAVEMENT TO BE REMOVED
			TEST HOLE
			DRAINAGE RIDGELINE
			PROPOSED MONUMENT

THIS SHEET

SCALE: 1" = 30'
0 30 60 100

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

GRADING PLAN 7
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY:	GEO	CADD No:86047 PM 2019.DWG	SCALE: 1"=30'
CHECKED BY:	JM	FILE NO.: 400-014	DRAWING NO.: C - 111
DATE: DECEMBER, 2017		PROJECT NO.: 86047	SHEET NO.12 OF 43

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EXISTING

PS2.59	PAVEMENT ELEVATION	94	CONTOUR
TC92.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC90.2	BOTTOM OF CURB ELEVATION	W	WATER
X92.5	SPOT ELEVATION	G	GAS
	ELECTRIC BOX	X	FENCE
	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
	GAS VALVE	OHW	OVERHEAD WIRE
	WATER VALVE	D	DRAINAGE
	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		DECIDUOUS TREE TO REMAIN
W.S.	WATER SERVICE		EVERGREEN TREE TO REMAIN
G.M.	GAS MAIN		MONUMENT

PROPOSED

(TC92.00)	TOP OF CURB ELEVATION	(W)	WATER
(BC91.5)	BOTTOM OF CURB ELEVATION	(FS)	FIRE SERVICE
x92.0	SPOT ELEVATION	(WS)	WATER SERVICE
LP	LEACHING POOL	(E)	ELECTRIC
CB	CATCH BASIN	(G)	GAS
SMH	SANITARY MANHOLE	(F)	FENCE
DMH	DRAINAGE MANHOLE	(HC)	SANITARY HOUSE CONNECTION
93	CONTOUR	(D)	DRAINAGE
	LEACHING POOL W/ OPEN GRATE	(RD)	ROOF DRAIN
	LEACHING POOL W/ SOLID COVER	(T)	TELEPHONE
	DRAINAGE BASIN	(CATV)	TELEVISION
	CATCH BASIN (TC = TOP OF CURB BOX)		CONCRETE WALK
	HYDRANT		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
PS	STREET TREE W / SYMBOL		SAWCUT W/ PAVEMENT TO BE REMOVED
			TEST HOLE
			DRAINAGE RIDGELINE
			PROPOSED MONUMENT

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

SCALE: 1" = 30'

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
J.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

GRADING PLAN 8

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY:	GEO	CADD No86047 PM 2019.DWG	SCALE:
CHECKED BY:	JM	FILE NO.: 400-014	1"=30'
DATE: DECEMBER, 2017		PROJECT NO.: 86047	

DRAWING NO.: C - 112
SHEET NO.13 OF 43

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COMMUNITY GOLF PRO SHOP TO REMAIN

INDIAN HILLS GOLF COURSE CLUB HOUSE

F.FL. 121.0
B.FL. 109.0

F.FL. 108.5

EXISTING STORAGE BUILDING TO REMAIN

254,405 SQ.FT.
5.84 ACRES

THIS SHEET

SCALE: 1" = 20'

0 20 40 60

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

GRADING PLAN 9

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY: GEO	CADD No:86047 PM 2019.DWG	SCALE: 1"=20'	DRAWING NO.: C - 113
CHECKED BY: JM	FILE NO.: 400-014		
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.14 OF 43

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EXISTING

P92.59	PAVEMENT ELEVATION	94	CONTOUR
TC92.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC92.2	BOTTOM OF CURB ELEVATION	W	WATER
X92.0	SPOT ELEVATION	G	GAS
	ELECTRIC BOX	X	FENCE
	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
GV	GAS VALVE	OHW	OVERHEAD WIRE
WV	WATER VALVE	D	DRAINAGE
	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		TREE TO REMAIN
W.S.	WATER SERVICE		MONUMENT
G.M.	GAS MAIN		

PROPOSED

(TC92.00)	TOP OF CURB ELEVATION	(W)	WATER
(BC91.5)	BOTTOM OF CURB ELEVATION	(FS)	FIRE SERVICE
x(92.0)	SPOT ELEVATION	(WS)	WATER SERVICE
LP	LEACHING POOL	(E)	ELECTRIC
CB	CATCH BASIN	(G)	GAS
SMH	SANITARY MANHOLE	x	FENCE
DMH	DRAINAGE MANHOLE	(HC)	SANITARY HOUSE CONNECTION
(93)	CONTOUR	(D)	DRAINAGE
	LEACHING POOL W/ OPEN GRATE	(RD)	ROOF DRAIN
	LEACHING POOL W/ SOLID COVER	(T)	TELEPHONE
	DRAINAGE BASIN	(CATV)	TELEVISION
	CATCH BASIN (TC – TOP OF CURB BOX)		CONCRETE WALK
	HYDRANT		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
PS	STREET TREE W / SYMBOL		SAWCUT W/ PAVEMENT TO BE REMOVED
			TEST HOLE
			DRAINAGE RIDGELINE
			PROPOSED MONUMENT

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY. 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

UTILITY PLAN 1

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY:	GEO	CADD No:86047 PM 2019.DWG	SCALE: 1"=60'
CHECKED BY:	JM	FILE NO.: 400-014	DRAWING NO.: C - 114
DATE: DECEMBER, 2017		PROJECT NO.: 86047	SHEET NO.15 OF 43

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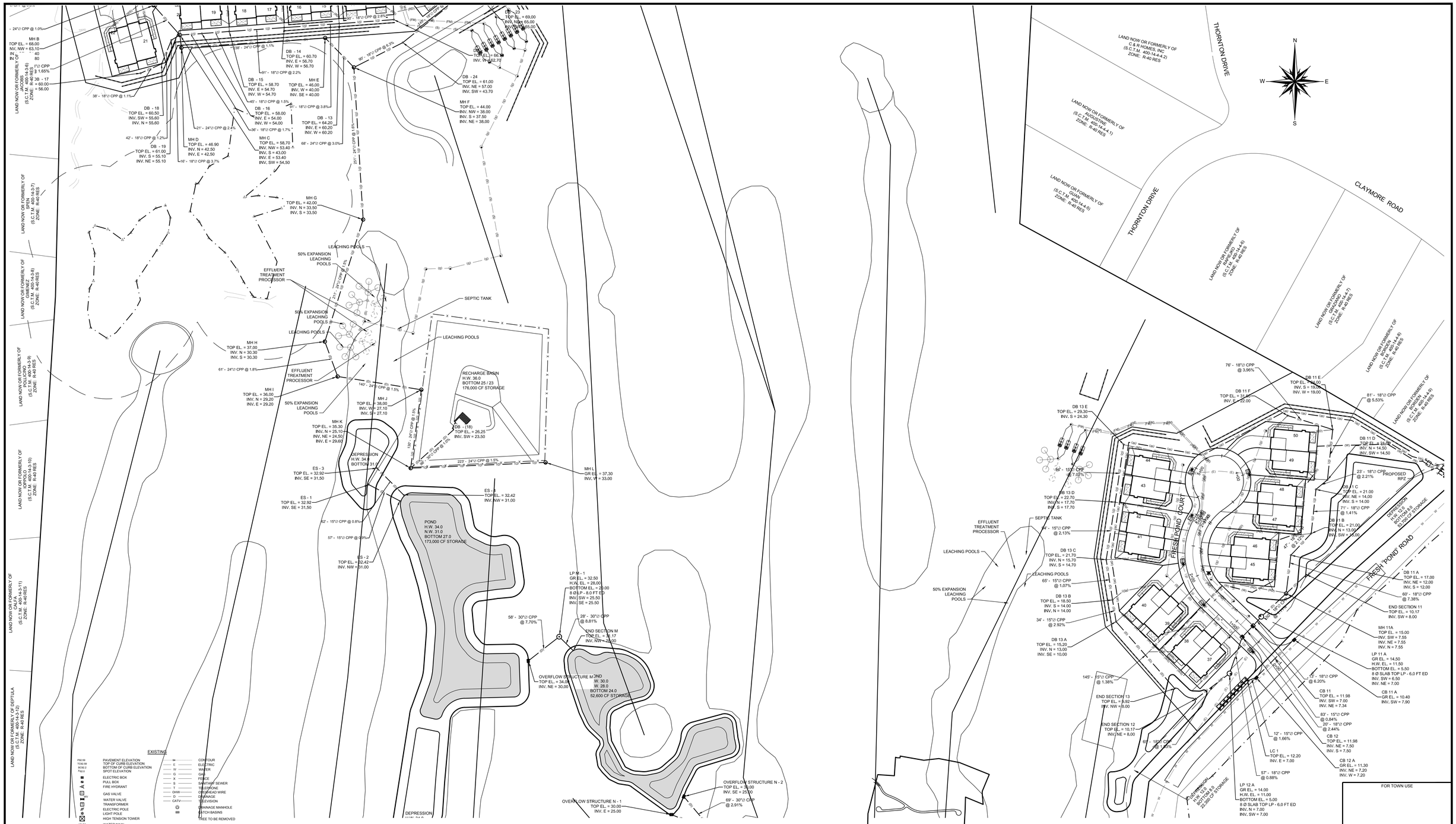

EXISTING

PAV. 69	PAVEMENT ELEVATION	94	CONTOUR
TOS 0.69	TOP OF CURB ELEVATION	E	ELECTRIC
BOS 0.2	BOTTOM OF CURB ELEVATION	W	WATER
+93.0	SPOT ELEVATION	G	GAS
	ELECTRIC BOX	X	FENCE
	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
GV	GAS VALVE	OHW	OVERHEAD WIRE
WV	WATER VALVE	D	DRAINAGE
	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		TREE TO REMAIN
W.S.	WATER SERVICE		MONUMENT
G.M.	GAS MAIN		

PROPOSED

(TC92.00)	TOP OF CURB ELEVATION	(W)	WATER
(BC91.5)	BOTTOM OF CURB ELEVATION	(FS)	FIRE SERVICE
x92.0)	SPOT ELEVATION	(WS)	WATER SERVICE
LP	LEACHING POOL	(E)	ELECTRIC
CB	CATCH BASIN	(G)	GAS
SMH	SANITARY MANHOLE	x	FENCE
DMH	DRAINAGE MANHOLE	(HC)	SANITARY HOUSE CONNECTION
93	CONTOUR	(D)	DRAINAGE
	LEACHING POOL W/ OPEN GRATE	(RD)	ROOF DRAIN
	LEACHING POOL W/ SOLID COVER	(T)	TELEPHONE
	DRAINAGE BASIN	(CATV)	TELEVISION
	CATCH BASIN (TC – TOP OF CURB BOX)		CONCRETE WALK
	HYDRANT		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
PS	STREET TREE W / SYMBOL		SAWCUT W/ PAVEMENT TO BE REMOVED
			TEST HOLE
			DRAINAGE RIDGELINE
			PROPOSED MONUMENT

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

THIS SHEET

SCALE: 1" = 60'

0 30 60 100 200

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCDR. ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING ENGINEERING ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

FOR TOWN USE

OWNER
I.H.C.C. INC. AND ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY. 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

UTILITY PLAN 2
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY:	GEO	CADD No:86047 PM 2019.DWG	SCALE: 1"=60'
CHECKED BY:	JM	FILE NO.: 400-014	DRAWING NO.: C - 115
DATE: DECEMBER, 2017		PROJECT NO.: 86047	SHEET NO.16 OF 43

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LAND NOW OR FORMERLY OF
PISCIOTTA
(S.C.T.M. 400-14-3.12)
ZONE: R-40 RES

LAND NOW OR FORMERLY OF
CORDTS
(S.C.T.M. 400-14-3.13)
ZONE: R-40 RES

LAND NOW OR FORMERLY OF
ZAGAJESKI
(S.C.T.M. 400-14-3.14)
ZONE: R-40 RES

LAND NOW OR FORMERLY OF
MONTIGLIO
(S.C.T.M. 400-14-3.26)
ZONE: R-40 RES

DEPRESSION
H.W. 34.0
BOTTOM 31.0

OVERFLOW STRUCTURE N - 1
TOP EL. = 30.00
INV. E = 25.00

OVERFLOW STRUCTURE N - 2
TOP EL. = 29.00
INV. SE = 25.00

69' - 30"Ø CMP
@ 2.91%

65' - 30"Ø CPP
@ 2.98%

LP No. 1
TOP EL. = 32.00
INV. W = 23.00
INV. SW = 23.00
INV. NW = 23.00

77' - 30"Ø CPP
@ 1.29%

END SECTION N
TOP EL. = 27.17
INV. NE = 24.00

POND
H.W. 26.0
N.W. 24.0
BOTTOM 20.0
70,200 CF STORAGE

POND
H.W. 15.0
N.W. 12.0
BOTTOM 6.0
270,000 CF STORAGE

END SECTION 12
TOP EL. = 10.17
INV. NE = 8.00

69' - 18"Ø CPP
@ 1.45%

12' - 15"Ø CPP
@ 1.66%

57' - 18"Ø CPP
@ 0.88%

LC 1
TOP EL. = 12.20
INV. E = 7.00

83' - 15"Ø CPP
@ 0.84%

20' - 18"Ø CPP
@ 2.44%

CB 12
TOP EL. = 11.98
INV. NE = 7.50
INV. S = 7.50

CB 12 A
GR EL. = 11.30
INV. NE = 7.20
INV. W = 7.20

CONCRETE
H.W. 12.0 & 0
22,500 CF STORAGE

LP 12 A
GR EL. = 14.00
H.W. EL. = 11.00
BOTTOM EL. = 5.00
8 Ø SLAB TOP LP - 6.0 FIXED
INV. N = 7.00
INV. SW = 7.00

N
W
E
S

BREEZE HILL ROAD

PROPOSED
WATER
METER

PROPOSED
RP2

LAND NOW OR FORMERLY OF
IZZO
(S.C.T.M. 400-15-1-10)
ZONE: R-40 RES

99
254,400 SQ.FT.
5.84 ACRES

APPROXIMATE
LOCATION
OF
PROPOSED
CLUBHOUSE

F.F.EL. 120.0

F.F.EL. 108.5

LAND NOW OR FORMERLY OF
MONTIGLIO
(S.C.T.M. 400-15-1-9)
ZONE: R-40 RES

DB 9
GR EL. = 50.40

LAND NOW OR FORMERLY OF
TRUTESCU
(S.C.T.M. 400-15-2-1)
ZONE: R-40 RES

BREEZE HILL ROAD

FRESH POND ROAD

B — B

THIS SHEET

SCALE: 1" = 60'
0 30 60 100 200

EXISTING

PS0.59	PAVEMENT ELEVATION	94	CONTOUR
TC90.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC92.2	BOTTOM OF CURB ELEVATION	W	WATER
X@.0	SPOT ELEVATION	G	GAS
	ELECTRIC BOX	X	FENCE
	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
GV	GAS VALVE	OHW	OVERHEAD WIRE
WV	WATER VALVE	D	DRAINAGE
	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		TREE TO REMAIN
W.S.	WATER SERVICE		MONUMENT
G.M.	GAS MAIN		

PROPOSED

(TC92.00)	TOP OF CURB ELEVATION	(W)	WATER
(BC91.5)	BOTTOM OF CURB ELEVATION	(FS)	FIRE SERVICE
x(92.0)	SPOT ELEVATION	(WS)	WATER SERVICE
LP	LEACHING POOL	(E)	ELECTRIC
CB	CATCH BASIN	(G)	GAS
SMH	SANITARY MANHOLE	X	FENCE
DMH	DRAINAGE MANHOLE	(HC)	SANITARY HOUSE CONNECTION
(93)	CONTOUR	(D)	DRAINAGE
	LEACHING POOL W/ OPEN GRATE	(RD)	ROOF DRAIN
	LEACHING POOL W/ SOLID COVER	(T)	TELEPHONE
	DRAINAGE BASIN	(CATV)	TELEVISION
	CATCH BASIN (TC – TOP OF CURB BOX)		CONCRETE WALK
	HYDRANT		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
PS	STREET TREE W / SYMBOL		SAWCUT W/ PAVEMENT TO BE REMOVED
			TEST HOLE
			DRAINAGE RIDGELINE
			PROPOSED MONUMENT

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FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700
APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

UTILITY PLAN 3

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY:	GEO	CADD No:86047 PM 2019.DWG	SCALE: 1"=100'
CHECKED BY:	JM	FILE NO.: 400-014	DRAWING NO.: C - 116
DATE: DECEMBER, 2017		PROJECT NO.: 86047	SHEET NO. 17 OF 43

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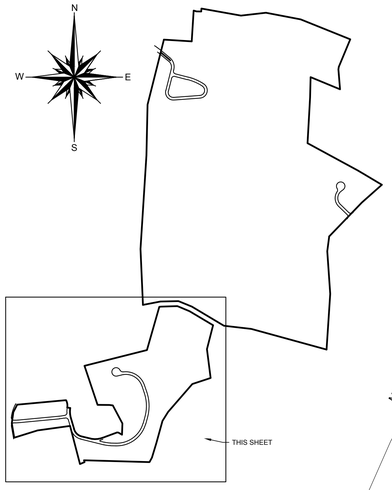

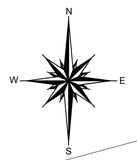

EXISTING

P92.59	PAVEMENT ELEVATION	94	CONTOUR
TC92.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC92.2	BOTTOM OF CURB ELEVATION	W	WATER
792.5	SPOT ELEVATION	G	GAS
E	ELECTRIC BOX	X	FENCE
T	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
GV	GAS VALVE	OHW	OVERHEAD WIRE
WV	WATER VALVE	D	DRAINAGE
	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		
W.S.	WATER SERVICE		TREE TO REMAIN
G.M.	GAS MAIN		MONUMENT

PROPOSED

(TC92.00)	TOP OF CURB ELEVATION	(W)	WATER
(BC91.5)	BOTTOM OF CURB ELEVATION	(FS)	FIRE SERVICE
x(92.0)	SPOT ELEVATION	(WS)	WATER SERVICE
LP	LEACHING POOL	(E)	ELECTRIC
CB	CATCH BASIN	(G)	GAS
SMH	SANITARY MANHOLE	X	FENCE
DMH	DRAINAGE MANHOLE	(HC)	SANITARY HOUSE CONNECTION
(93')	CONTOUR	(D)	DRAINAGE
	LEACHING POOL W/ OPEN GRATE	(RD)	ROOF DRAIN
	LEACHING POOL W/ SOLID COVER	(T)	TELEPHONE
	DRAINAGE BASIN	(CATV)	TELEVISION
	CATCH BASIN (TC - TOP OF CURB BOX)		CONCRETE WALK
	HYDRANT		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
PS	STREET TREE W / SYMBOL		DRIVEWAY W/ PAVEMENT TO BE REMOVED
			TEST HOLE
			DRAINAGE RIDGELINE
			PROPOSED MONUMENT

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SCALE: 1" = 60'
0 30 60 100 200

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

FOR TOWN USE

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

UTILITY PLAN 4

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY:	GEO	CADD No.86047 PM 2019.DWG	SCALE: 1"=60'
CHECKED BY:	JM	FILE NO.: 400-014	DRAWING NO.: C - 117
DATE: DECEMBER, 2017		PROJECT NO.: 86047	SHEET NO.18 OF 43

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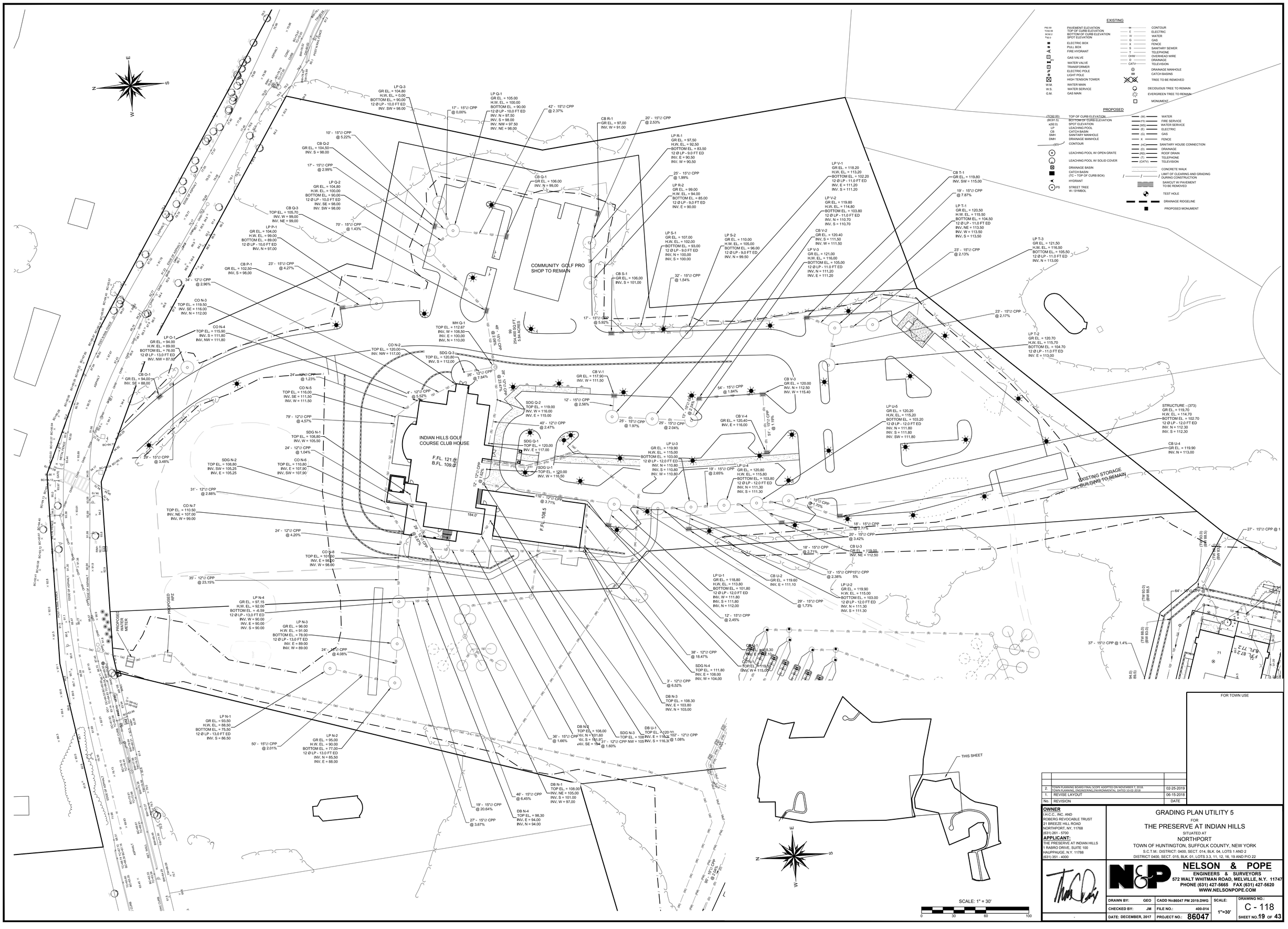

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018; TOWN PLANNING, ENGINEERING ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2015

FOR TOWN USE

OWNER
(H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

GRADING PLAN UTILITY 5

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT: 014, BLK: 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY: GEO	CADD No:86047 PM 2019.DWG	SCALE: 1"=30'	DRAWING NO.: C - 118
CHECKED BY: JM	FILE NO.: 400-014		
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.:19 OF 43

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DRAINAGE CALCULATIONS

AREA A

REQUIRED:
20.2 AC. x 5850 = 118,170 C.F. x 1.5 = 177,255 C.F.

PROVIDE:
178,000 C.F. RECHARGE BASIN
H.W. 36.0
BOTTOM 23 / 25

AREA B

REQUIRED:
27.2 AC. X 5850 = 159,120 C.F. x 1.5 = 238,680 C.F.

PROVIDE:
192,000 C.F. (3' STORAGE OVER POND)

AREA C

REQUIRED:
15.5 AC. X 5850 = 90,675 C.F. x 1.5 = 136,012 C.F.
OVERFLOW FROM AREA B = 46,680 C.F.
TOTAL REQUIRED = 182,692 C.F.

PROVIDE:
52,600 C.F. (2' STORAGE OVER POND

AREA D

REQUIRED:
8.0 AC. X 5850 = 46,800 C.F. x 1.5 = 70,200 C.F.
OVERFLOW FROM AREA C = 130,092 C.F.
TOTAL REQUIRED = 200,292 C.F.

PROVIDE:
70,200 C.F. (2' STORAGE OVER POND)

AREA E

REQUIRED:
15.7 AC. X 5850 = 91,845 C.F. x 1.5 = 137,768 C.F.
OVERFLOW FROM AREA D = 130,092 C.F.
TOTAL REQUIRED = 267,860 C.F.

PROVIDE:
270,000 C.F. (3' STORAGE OVER POND)

AREA F

REQUIRED:
11.9 AC. X 5850 = 69,6153 C.F.
PROVIDE:
76,000 C.F. 4' DEEP DEPRESSION

AREA G

REQUIRED:
1.95 AC. X 5850 = 11,407 C.F. x 1.5 = 17,111 C.F.
PROVIDE:
12,000 C.F. 2' DEEP DEPRESSION
5,246 C.F. IN (4) 12' DIA x 13' E.D. L.P.
17,246 C.F. TOTAL PROVIDED

AREA F-1

REQUIRED:
4,454 SQ.FT. X 3/12 X 1.0 = 1,136 CU.FT.
6,555 SQ.FT. X 3/12 X 0.2 = 328 CU.FT.
TOTAL REQUIRED = 1,464 CU.FT.
PROVIDE:
16 - 4' X 8' X 3' (96 CU.FT. / CHAMBER)= 1,536 CU.FT.

LONG ISLAND SOUND
COASTAL EROSION HAZARD LINE
COASTAL EROSION HAZARD LINE FLAGGED BY N.P.AND V DATED 8-29-2018
FRESH POND ROAD
FRESH POND COURT
MYSTIC CIRCLE
MYSTIC LANE
BREEZE HILL ROAD
AREA A
AREA B
AREA C
AREA D
AREA E
AREA F
AREA G
AREA F-1
DEPRESSION H.W. 12.0 BOTTOM 8.0 53,700 CF STORAGE
16 - 4' X 8' X 3' LEACHING CHAMBERS (1,536 CU.FT.)
DEPRESSION H.W. 12.0 BOTTOM 8.0 22,300 CF STORAGE
POND H.W. 15.0 H.W. 12.0 BOTTOM 6.0 251,000 CF STORAGE
POND H.W. 30.0 H.W. 28.0 BOTTOM 24.0 92,600 CF STORAGE
POND H.W. 26.0 N.W. 24.0 BOTTOM 20.0 99,200 CF STORAGE
RECHARGE BASIN H.W. 36.0 BOTTOM 25 / 23 178,000 CF STORAGE
POND H.W. 34.0 N.W. 31.0 BOTTOM 27.0 173,000 CF STORAGE
DEPRESSION H.W. 34.0 BOTTOM 31.0
DEPRESSION H.W. 34.0 BOTTOM 31.0
W.EL. 43.7
W.EL. 42.7
W.EL. 39.4
W.EL. 30.4
W.EL. 31.93
LAND NOW OR FORMERLY OF INDIAN HEAD BLUFF LLC (S.C.T.M. 400-14-4.3) ZONE: R-40 RES
LAND NOW OR FORMERLY OF INDIAN HEAD BLUFF LLC (S.C.T.M. 400-146-37) ZONE: R-40 RES
LAND NOW OR FORMERLY OF ZACHER (S.C.T.M. 400-14-4.10) ZONE: R-40 RES
LAND NOW OR FORMERLY OF ZACHER (S.C.T.M. 400-14-4.3) ZONE: R-40 RES
LAND NOW OR FORMERLY OF C & H GROUP, INC. (S.C.T.M. 400-14-4.2) ZONE: R-40 RES
LAND NOW OR FORMERLY OF ZACHER (S.C.T.M. 400-14-4.11) ZONE: R-40 RES
LAND NOW OR FORMERLY OF INDIAN HILLS ESTATES (S.C.T.M. 400-14-11) ZONE: R-40 RES
LAND NOW OR FORMERLY OF MAZZONI (S.C.T.M. 400-14-3.4) ZONE: R-40 RES
LAND NOW OR FORMERLY OF (S.C.T.M. 400-14-3.5) ZONE: R-40 RES
LAND NOW OR FORMERLY OF (S.C.T.M. 400-14-3.6) ZONE: R-40 RES
LAND NOW OR FORMERLY OF (S.C.T.M. 400-14-3.7) ZONE: R-40 RES
LAND NOW OR FORMERLY OF (S.C.T.M. 400-14-3.8) ZONE: R-40 RES
LAND NOW OR FORMERLY OF POLLICINO (S.C.T.M. 400-14-3.9) ZONE: R-40 RES
LAND NOW OR FORMERLY OF (S.C.T.M. 400-14-3.10) ZONE: R-40 RES
LAND NOW OR FORMERLY OF (S.C.T.M. 400-14-3.11) ZONE: R-40 RES
LAND NOW OR FORMERLY OF (S.C.T.M. 400-14-3.12) ZONE: R-40 RES
LAND NOW OR FORMERLY OF (S.C.T.M. 400-14-3.13) ZONE: R-40 RES
D NOW OR FORMERLY OF ZAGAJESKI (S.C.T.M. 400-14-3.14) ZONE: R-40 RES
LAND NOW OR FORMERLY OF MONTICLO (S.C.T.M. 400-14-3.26) ZONE: R-40 RES
LAND NOW OR FORMERLY OF HSBC (S.C.T.M. 400-14-3.27) ZONE: R-40 RES
LAND NOW OR FORMERLY OF TRISTESCI (S.C.T.M. 400-15-2.1) ZONE: R-40 RES
LANE

SCALE: 1" = 100'
0 50 100 200

EXISTING

P92.99	PAVEMENT ELEVATION	94	CONTOUR
TC96.99	TOP OF CURB ELEVATION	E	ELECTRIC
BC92.2	BOTTOM OF CURB ELEVATION	W	WATER
x%2.0	SPOT ELEVATION	G	GAS
	ELECTRIC BOX	X	FENCE
	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
	GAS VALVE	OHW	OVERHEAD WIRE
	WATER VALVE	D	DRAINAGE
	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		
W.S.	WATER SERVICE		TREE TO REMAIN
G.M.	GAS MAIN		
			MONUMENT

PROPOSED

(TC92.00)	TOP OF CURB ELEVATION	(W)	WATER
(BC91.5)	BOTTOM OF CURB ELEVATION	(FS)	FIRE SERVICE
x(92.0)	SPOT ELEVATION	(WS)	WATER SERVICE
LP	LEACHING POOL	(E)	ELECTRIC
CB	CATCH BASIN	(G)	GAS
SMH	SANITARY MANHOLE	X	FENCE
DMH	DRAINAGE MANHOLE	(HC)	SANITARY HOUSE CONNECTION
45	CONTOUR	(D)	DRAINAGE
	LEACHING POOL W/ OPEN GRATE	(RD)	ROOF DRAIN
	LEACHING POOL W/ SOLID COVER	(T)	TELEPHONE
	DRAINAGE BASIN	(CATV)	TELEVISION
	CATCH BASIN (TC – TOP OF CURB BOX)		CONCRETE WALK
	HYDRANT		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
PS	STREET TREE W / SYMBOL		SAWCUT W/ PAVEMENT TO BE REMOVED
			TEST HOLE
			DRAINAGE RIDGELINE
			PROPOSED MONUMENT

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY. 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

OVERALL DRAINAGE PLAN - NORTH PARCEL

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND PIO 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY: GEO	CADD No:86047 PM 2019.DWG	SCALE: 1"=100'	DRAWING NO.: C - 119
CHECKED BY: JM	FILE NO.: 400-014		
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.20 OF 43

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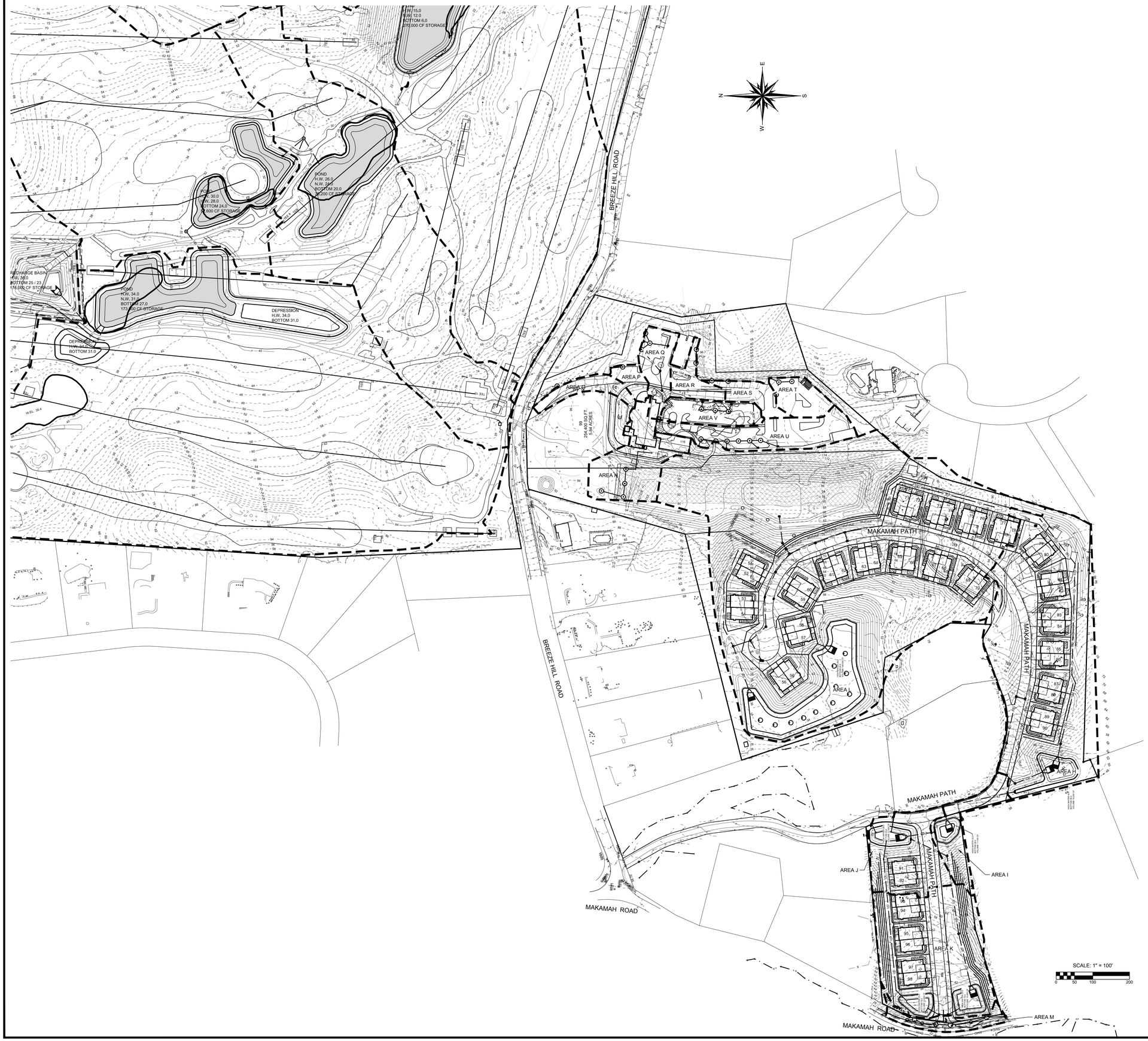

DRAINAGE CALCULATIONS

AREA H

REQUIRED:
4.5 AC. x 5850 = 26,325 C.F. x 1.5 = 37,487 C.F.

PROVIDE:
19,200 C.F. 4' DEPRESSION
H.W. 30.0
BOTTOM 28.0

AREA I

REQUIRED:
0.55 AC. X 5850 = 3,218 C.F. x 1.5 = 4,826 C.F.
OVERFLOW FROM H = 20,287 C.F.
TOTAL REQUIRED: = 25,113 C.F.

PROVIDE:
11,700 C.F. 5' DEPRESSION

AREA J

REQUIRED:
1.0 AC. X 5850 = 5,850 C.F. x 1.5 = 8,775 C.F.
OVERFLOW FROM AREA I = 13,413 C.F.
TOTAL REQUIRED = 22,188 C.F.

PROVIDE:
17,000 C.F. 5' DEPRESSION

AREA K

REQUIRED:
2.25 AC. X 5850 = 13,162 C.F. x 1.5 = 19,743 C.F.
OVERFLOW FROM AREA J = 5,188 C.F.
TOTAL REQUIRED = 24,931 C.F.

PROVIDE:
29,400 C.F. 4' DEPRESSION

AREA L

REQUIRED:
12.1 AC. X 5850 = 70,785 C.F. x 1.5 = 106,177 C.F.

PROVIDE:
148,000 C.F. 4' DEPRESSION

AREA M

REQUIRED:
PAVEMENT: 6,415 x 0.9 = 5,773
LAND: 6,063 x 0.2 = 1,213
TOTAL 6,986
6,986 / 12,478 = 0.56

12,478 x 0.56 x 3/12 = 1,746 CU.FT.

PROVIDE:
(4) 12' DIA x 4' EFF. DEPTH LP = 1,614 CU.FT.
(2) 8' DIA x 6' EFF. DEPTH LCB = 506 CU.FT.
(2) 8' DIA X 4' EFF. DEPTH LCB = 337 CU.FT.
TOTAL PROVIDED = 2,457 CU.FT.

AREA N

REQUIRED:
ROOF: 10,430 X 1.0 = 10,430
PATIO: 1,216 X 1.0 = 1,216
PAVEMENT: 3,750 X 0.9 = 3,375
LAND: 24,368 X 0.2 = 4,873
TOTAL 19,894
19,894 / 39,764 = 0.50

39,764 X 0.5 X 3/12 = 4,973 CU.FT.

PROVIDE:
(4) 12' DIA X 13' EFF. DEPTH LP = 5,246 CU.FT.

AREA O

REQUIRED:
PAVEMENT: 4,599 X 0.9 = 4,139
LAND: 5,027 X 0.2 = 1,005
TOTAL 5,144
5,144 / 9,626 = 0.53
9,626 X 0.53 X 3/12 = 1,275 CU.FT.

PROVIDE:
(1) 12' DIA X 13' EFF. DEPTH LP = 1,311 CU.FT.

AREA P

REQUIRED:
PAVEMENT: 3,460 X 0.9 = 3,114
LAND: 2,973X 0.2 = 594
TOTAL 3,708
3,708 / 6,433 = 0.58
6,433 X 0.58X 3/12 = 932 CU.FT.

PROVIDE:
(1) 12' DIA X 10' EFF. DEPTH LP = 1,009 CU.FT.

AREA Q

REQUIRED:
ROOF / PATIO: 1,810 X 1.0 = 1,810
PAVEMENT: 11,050 X 0.9 = 9,945
LAND: 4,470 X 0.2 = 894
TOTAL 11,848
11,848 / 17,330 = 0.68
17,330 X 0.68 X 3/12 = 2,946 CU.FT.

PROVIDE:
(3) 12' DIA X 10' EFF. DEPTH LP = 3,027 CU.FT.

AREA R

REQUIRED:
PAVEMENT: 6,960 X 0.9 = 6,246
LAND: 4,300 X 0.2 = 860
TOTAL 7,124
7,124 / 11,260 = 0.63
11,260 X 0.63X 3/12 = 1,773 CU.FT.

PROVIDE:
(2) 12' DIA X 9' EFF. DEPTH LP = 1,816 CU.FT.

AREA S

REQUIRED:
PAVEMENT: 6,700 X 0.9 = 6,030
LAND 4,154 X 0.2 = 830
TOTAL 6,860
6,860 / 10,854 = 0.63
10,854 X 0.63 X 3/12 = 1,709 CU.FT.

PROVIDE:
(2) 12' DIA X 9' EFF. DEPTH LP = 1,816 CU.FT.

AREA T

REQUIRED:
PAVEMENT: 13,610 X 0.9 X 3/12 = 3,062 CU.FT.

PROVIDE:
(3) 12' DIA X 11' EFF. DEPTH LP = 3,330 CU.FT.

AREA U

REQUIRED:
ROOF: 1,500 X 1.0 = 1,500
PAVEMENT: 25,970 X 0.9 = 23,373
LAND: 8,800 X 0.2 = 1,760
TOTAL 26,633
26,633 / 36,270 = 0.73
36,270 X 0.73 X 3/12 = 6,619 CU.FT.

PROVIDE:
(6) 12' DIA X 12 EFF. DEPTH LP = 7,264 CU.FT.

AREA V

REQUIRED:
PAVEMENT: 13,700 X 0.9 =12,330
LAND: 3,800 X 0.2 = 760
TOTAL 13,090
13,090 / 17,500 = 0.75
17,500 X 0.75 X 3/12 = 3,281 CU.FT.

PROVIDE:
(2) 12' DIA X 11' EFF. DEPTH LP = 3,330 CU.FT.

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING, ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2019

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700
APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

OVERALL DRAINAGE PLAN - SOUTH PARCEL

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
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PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY: GEO	CADD No.86047 PM 2019.DWG	SCALE:	DRAWING NO.: C - 120
CHECKED BY: JM	FILE NO.: 400-014	1"=100'	
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 21 OF 43

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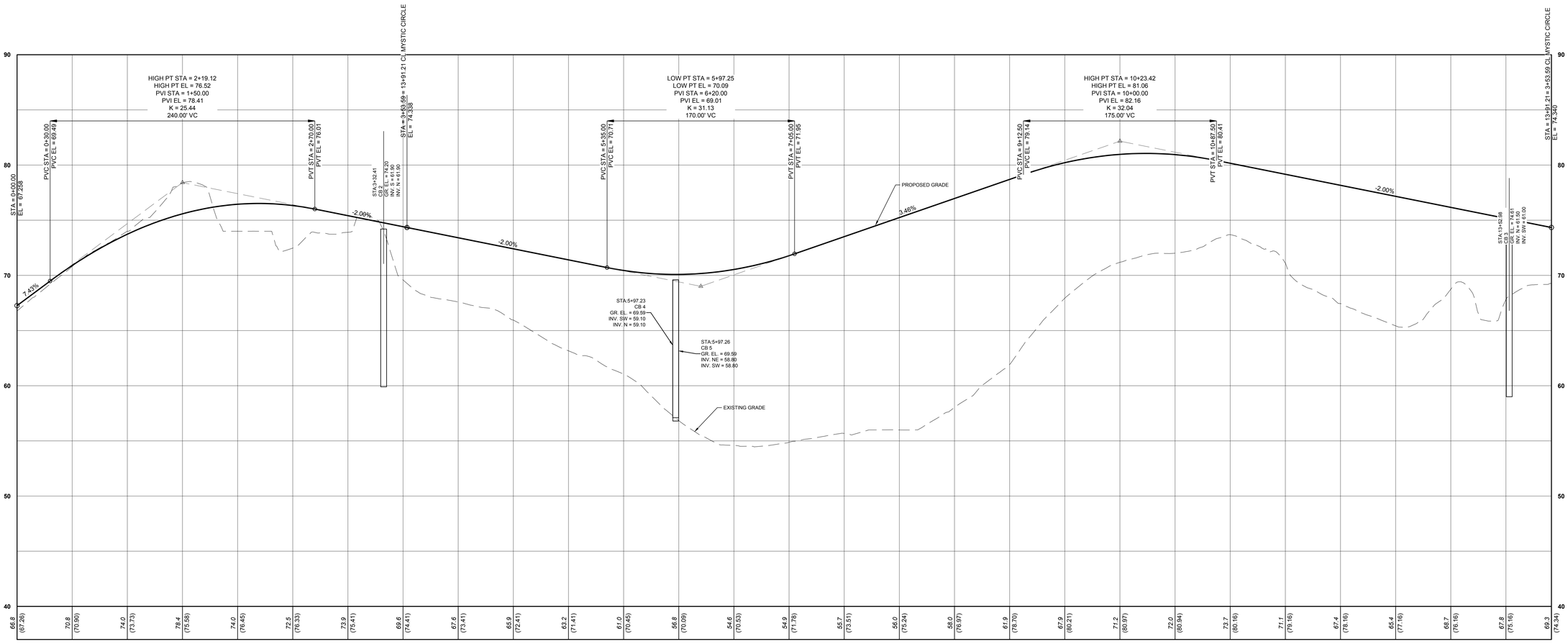

MYSTIC CIRCLE

STA. 0+00.00 TO STA. 13+91.21

FOR TOWN USE

No.	REVISION	DATE
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ROBERG REVOCABLE TRUST
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NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

PROFILES 1
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

SCALE: 1" VERT = 4'
0 4 6 10

SCALE: 1" HORZ = 40'
0 40 60 100

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DRAWN BY: GEO	CADD No:86047 PM 2019.DWG	SCALE:	DRAWING NO.:	
CHECKED BY: JM	FILE NO.: 400-014	1" VERT = 4' 1" HORZ = 40'	C - 121	
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.22 OF 43	

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

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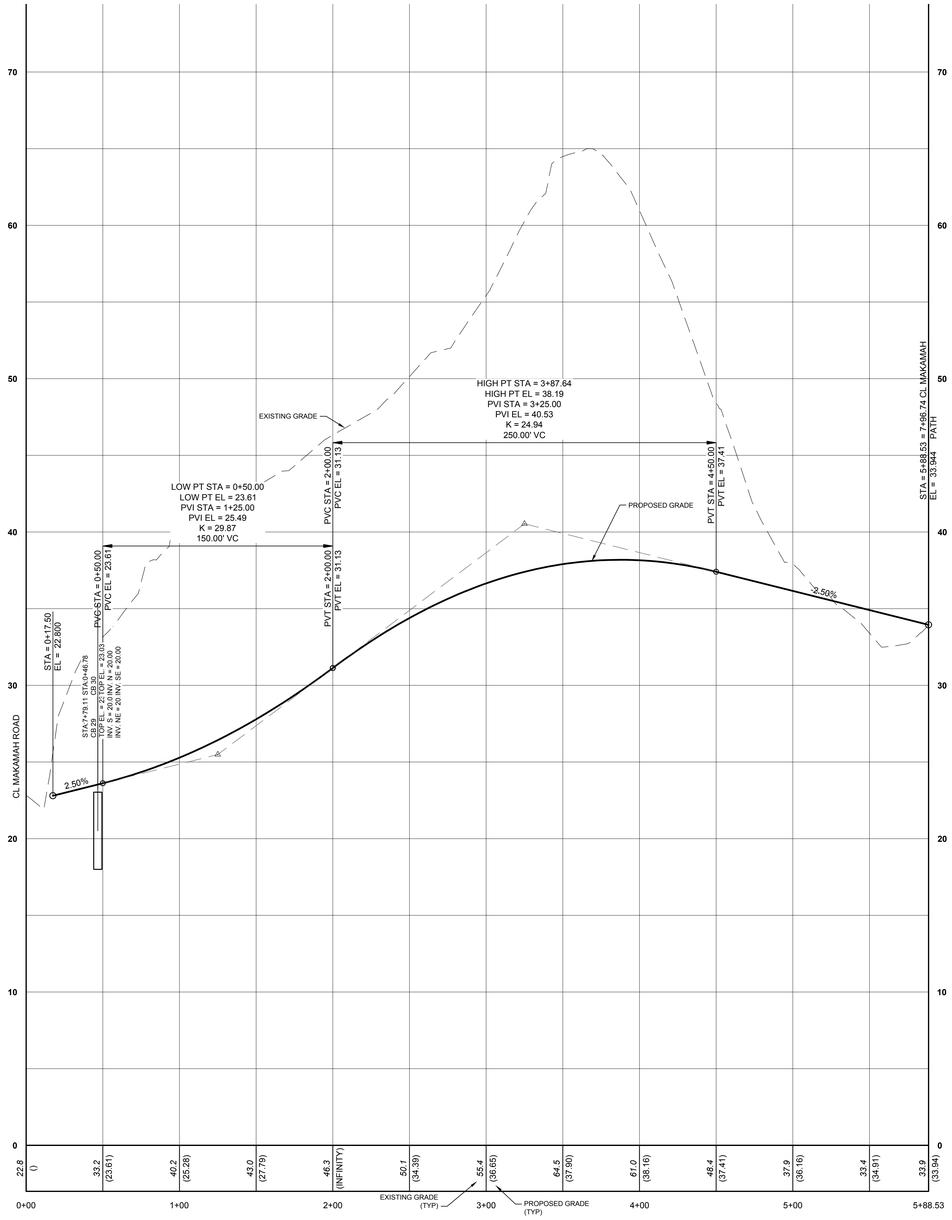
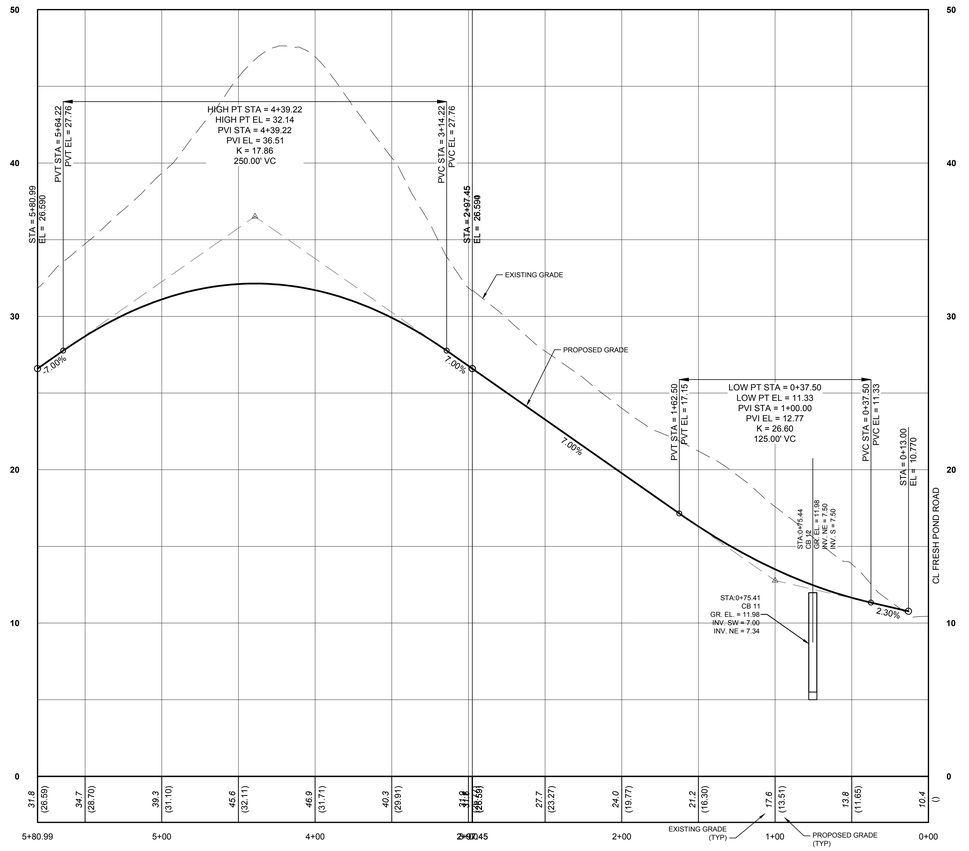


MAKAMAH PATH



FRESH POND COURT

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10.02.2018.	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.S., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY. 11768
(631) 261 - 5700
APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

PROFILES 2
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

SCALE: 1" VERT = 4'
0 4 6 10
SCALE: 1" HORZ = 40'
0 40 60 100

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
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DRAWN BY: GEO	CADD No.86047 PM 2019.DWG	SCALE:	DRAWING NO.: C - 122
CHECKED BY: JM	FILE NO.: 400-014	1" VERT = 4' 1" HORZ = 40'	
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.23 OF 43

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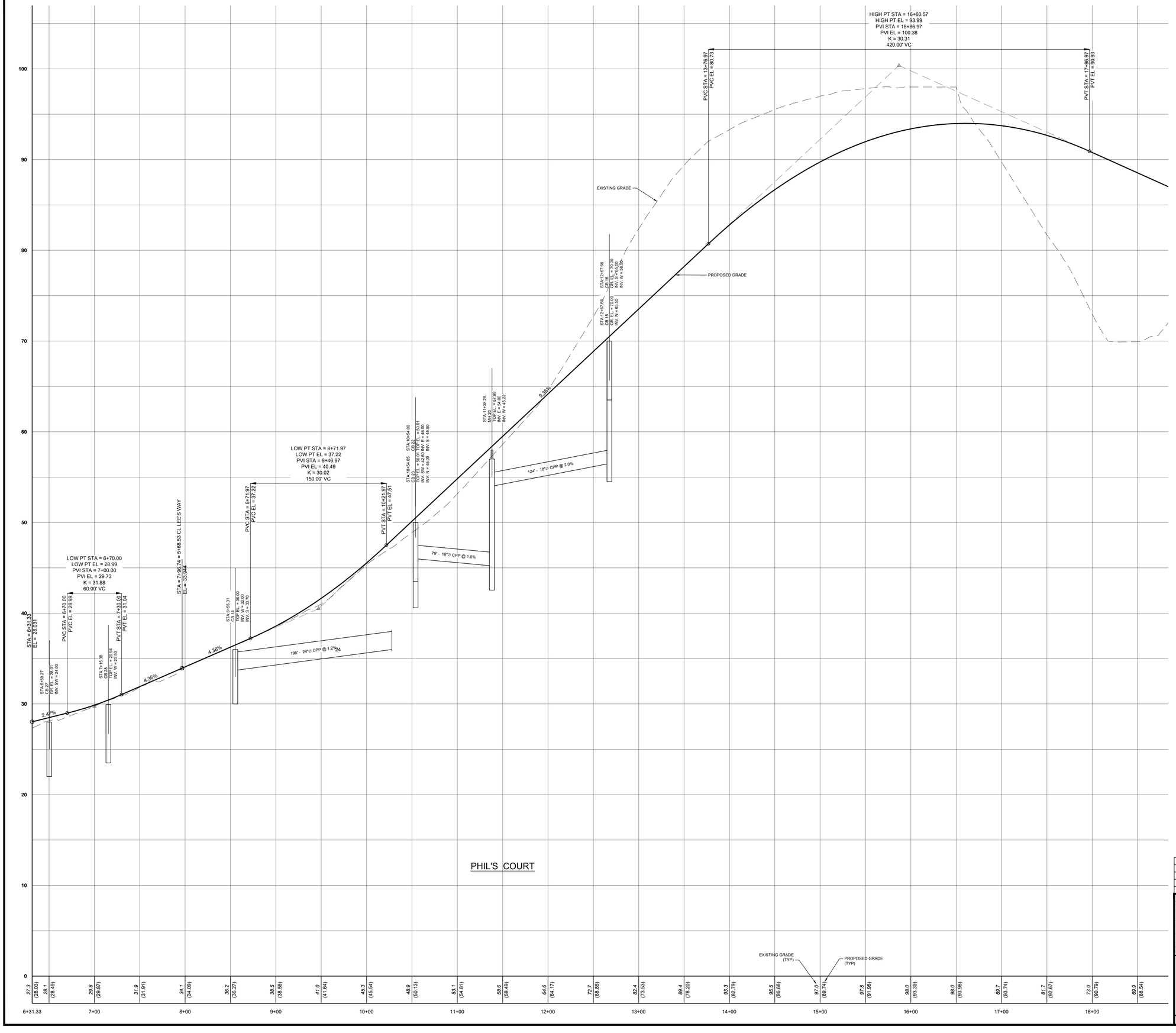

MATCH LINE SEE SHEET C-119

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SCALE: 1" VERT = 4'
0 4 8 10

SCALE: 1" HORZ = 40'
0 40 60 100

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-30-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY. 11768
(631) 261 - 5700

APPLICANT:
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1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
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PROFILES 3
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3, 11, 12, 16, 19 AND P/O 22

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CHECKED BY: JM	FILE NO.: 400-014		
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.24 OF 43

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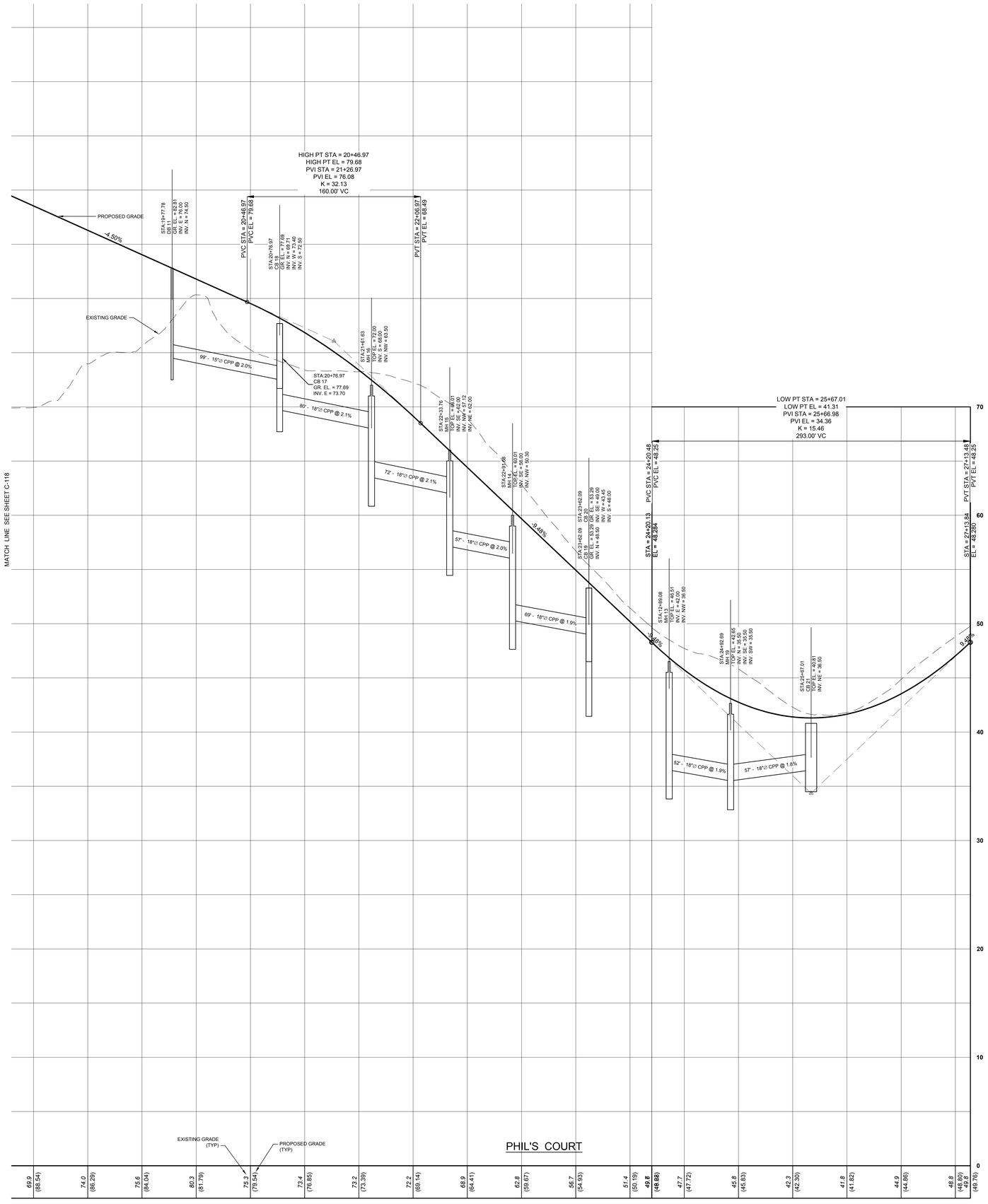

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SCALE: 1" VERT = 4'

0 4 6 10

SCALE: 1" HORZ = 40'

0 40 60 100

FOR TOWN USE

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NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
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PROFILES 4
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

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DRAWN BY:	GEO	CADD No:86047 PM 2019.DWG	SCALE:	DRAWING NO.: C - 124
CHECKED BY:	JM	FILE NO.: 400-014	1" VERT = 4' 1" HORZ = 40'	
DATE: DECEMBER, 2017		PROJECT NO.: 86047		SHEET NO.25 OF 43

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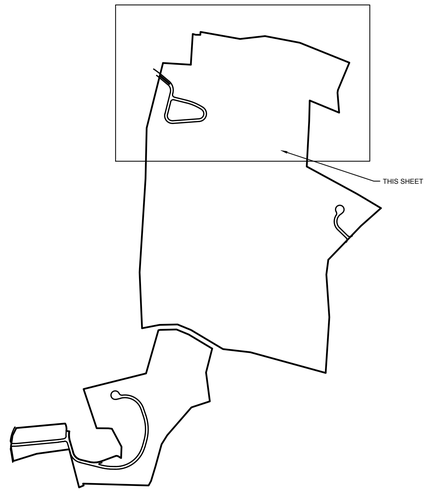
EROSION CONTROL MEASURES LEGEND

CONSTRUCTION FENCE	—/——/——/——
SILT FENCE	(SF)——(SF)——(SF)
STONE AND BLOCK INLET PROTECTION	
CURB AND GRATE INLET PROTECTION	
CONCRETE WASHOUT	
CONSTRUCTION ENTRANCE	
TERRA TUBE	



FOR TOWN USE

No.	REVISION	DATE
2	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1	REVISED LAYOUT	06-15-2018

OWNER:
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGUE, NY, 11788
(631) 351 - 4000

SEDIMENT AND EROSION CONTROL PLAN 1
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

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CHECKED BY: JM	FILE NO.: 400-014	1"=60'	C - 125
DATE: NOVEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 26 OF 43

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

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EROSION CONTROL MEASURES LEGEND

- CONSTRUCTION FENCE —/———/———/——
- SILT FENCE (SF)———(SF)———(SF)
- STONE AND BLOCK INLET PROTECTION
- CURB AND GRATE INLET PROTECTION (SB) (SBBG)
- CONCRETE WASHOUT
- CONSTRUCTION ENTRANCE
- TERRA TUBE

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FOR TOWN USE

No.	REVISION	DATE
2	TOWN PLANNING BOARD FINAL SCDPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1	REVISED LAYOUT	06-15-2018

OWNER:
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGUE, NY. 11788
(631) 351 - 4000

SEDIMENT AND EROSION CONTROL PLAN 2

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
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CHECKED BY: JM	FILE NO.: 400-014	1"=60'	C - 126
DATE: NOVEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 27 OF 43

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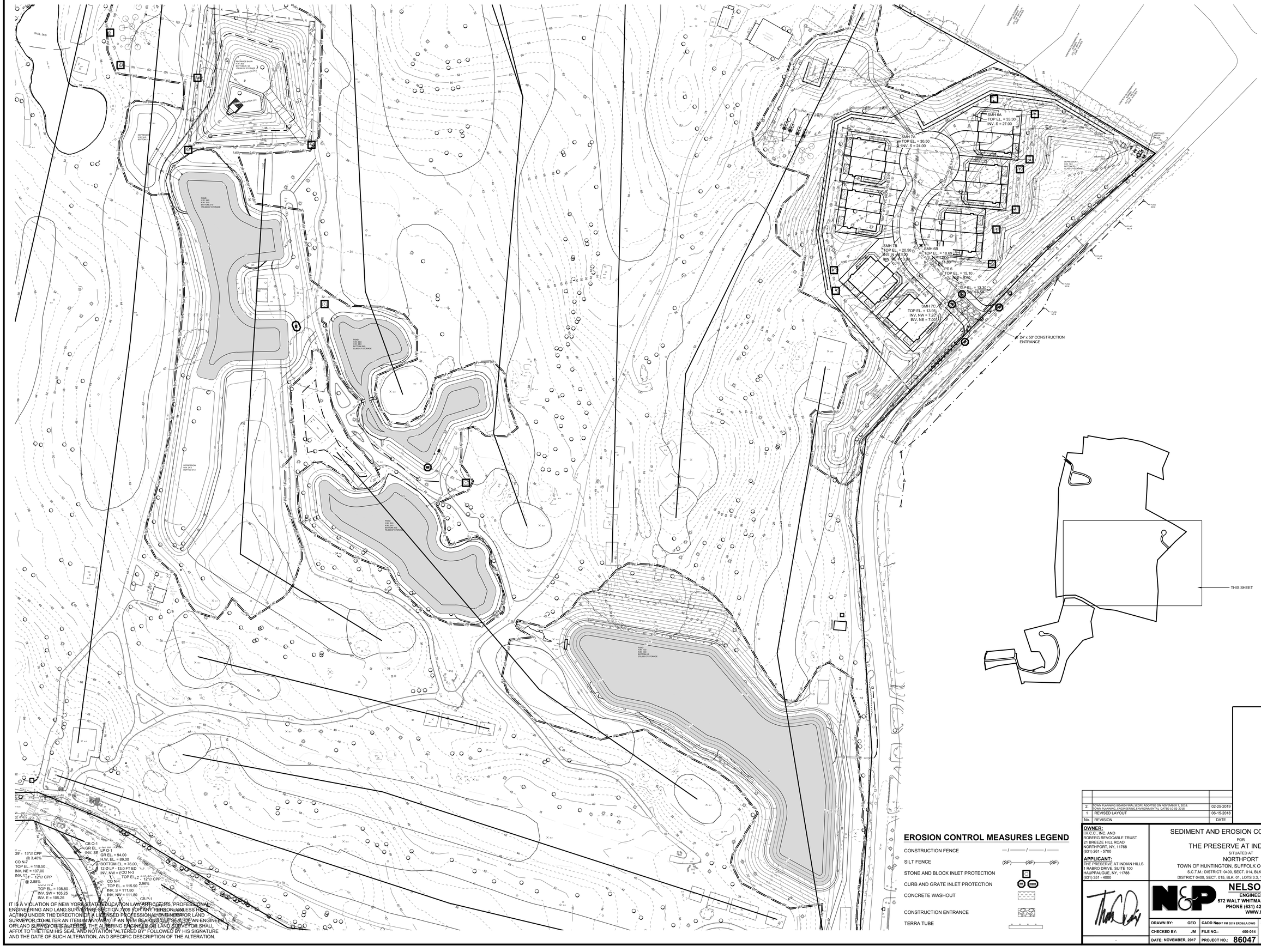

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EROSION CONTROL MEASURES LEGEND

- CONSTRUCTION FENCE
- SILT FENCE (SF)—(SF)—(SF)
- STONE AND BLOCK INLET PROTECTION (STONE) (BLOCK)
- CURB AND GRATE INLET PROTECTION (STONE) (BLOCK)
- CONCRETE WASHOUT
- CONSTRUCTION ENTRANCE
- TERRA TUBE

FOR TOWN USE

No.	REVISION	DATE
2	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-05-2018.	02-25-2019
1	REVISED LAYOUT	06-15-2018

OWNER:
I H C E, INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, NY, 11788
(631) 351 - 4000

SEDIMENT AND EROSION CONTROL PLAN 3
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
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CHECKED BY:	JM	FILE NO.:	400-014	1"=60'	C - 127
DATE: NOVEMBER, 2017		PROJECT NO.:	86047		SHEET NO.: 28 OF 43

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HIGH WATER LINE
S79°03'40"E 348.87'
MEAN HIGH WATER LINE
LONG ISLAND SOUND
S68°09'10"E 527.19'
N1°36'00"E 334.05'
N/F JEROME VAN NOSTRAND
S86°23'10"E
275.00'
COASTAL EROSION HAZARD LINE
PROPOSED WATER METER
LIMIT OF CLEARING (TYP.)
MYSTIC LANE
N4°30'00"E 660.00'
PROPOSED GREEN
TC
ARNIE'S CIRCLE
PROPOSED TYP.
N67°32'10"W 314.04'
COASTAL EROSION HAZARD LINE
N22°30'00"W 200.00'
N/F JEROME VAN NOSTRAND
N/F JEROME VAN NOSTRAND
N/F JEROME VAN NOSTRAND



FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1	REVISED LAYOUT	06-15-2018

OWNER:
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
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(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGUE, NY, 11788
(631) 351 - 4000

LANDSCAPE PLAN 2
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

LICENSED LANDSCAPE ARCHITECT RICHARD G. IGNATOW STATE OF NEW YORK

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
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CHECKED BY:	JM	FILE NO.:	400-014	1"=50'	LP - 102
DATE: NOVEMBER, 2017		PROJECT NO.:	86047		SHEET NO.: 30 OF 43

R.B. IGNATOW
LANDSCAPE ARCHITECT
91 GREEN STREET
HUNTINGTON, NY 11743

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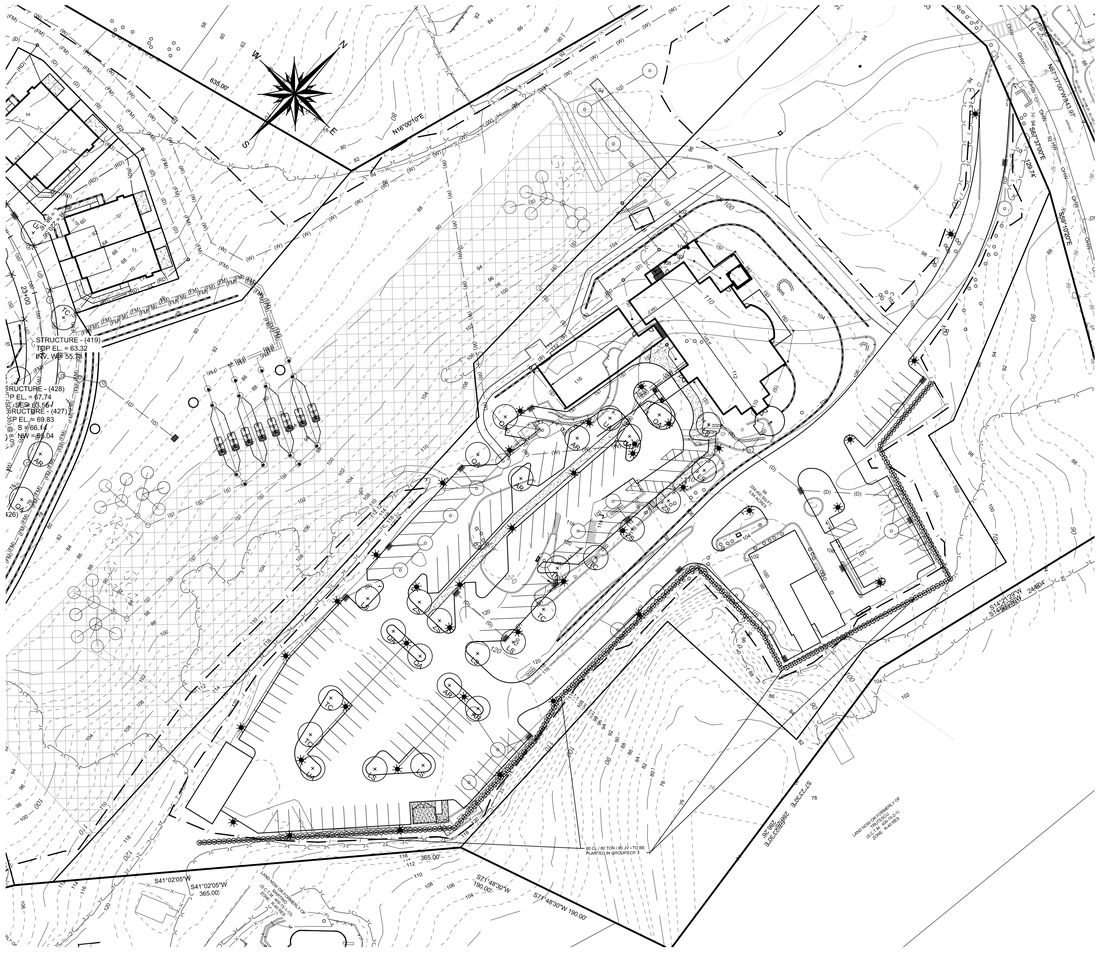
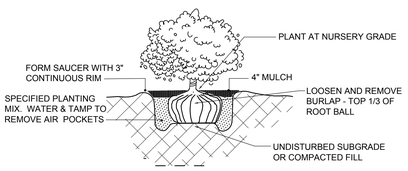


EVERGREEN SCREEN PLANTING SCHEDULE

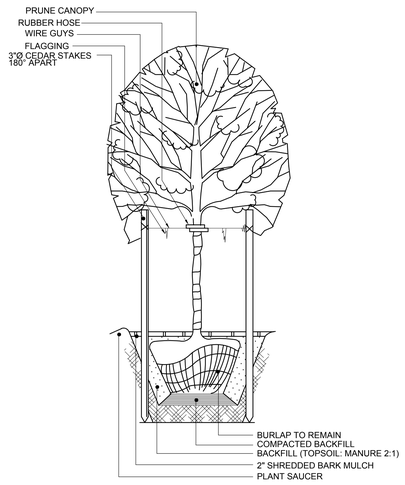
QTY	SYM	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
80	JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6' TO 8' HT.	4' o.c.
80	CL	CUPRESSOCYPARIS LEYLANDII	LEYLAND CYPRESS	6' TO 8' HT.	4' o.c.
80	TON	THUJA OCCIDENTALIS NIGRA	DARK AMERICAN ARBORVITAE	6' TO 8' HT.	4' o.c.

STREET TREE PLANTING SCHEDULE

QTY	SYM	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
18	QA	QUERCUS ALBA	WHITE OAK	3-31/2" CAL.	35' o.c.
22	AR	ACER RUBRUM	RED MAPLE	3-31/2" CAL.	25' o.c.
20	LS	LIQUIDAMBAR STYRACIFLUA	SWEETGUM	3-31/2" CAL.	35' o.c.
23	TC	TILIA CORDATA	LITTLELEAF LINDEN	3-31/2" CAL.	35' o.c.
17	UA	ULMUS AMERICANA LIBERTY	LIBERTY ELM	3-31/2" CAL.	35' o.c.
25	ZS	ZELKOVA SERRATA	JAPANESE ZELKOVA	3-31/2" CAL.	35' o.c.



SHRUB PLANTING
N.T.S.



TREE PLANTING DETAIL
N.T.S.

TREE AND SHRUB PLANTING

1. ALL TREES AND SHRUBS SHALL BE PLANTED IN CIRCULAR PITS 1 FOOT CLEAR ON ALL SIDES AND BOTTOM OF ROOT BALL AND BACKFILL WITH A MIXTURE OF 7 PARTS TOPSOIL, 1 PART ROTTED MANURE.
2. ALL PLANT MATERIAL SHALL HAVE VIGOROUS ROOT GROWTH AND BE FREE FROM ROOT INJURY AND DISEASE IN ANY FORM.
3. ALL PLANT MATERIALS SHALL BE NURSERY GROWN WITH SIZE GRADUATION, ROOTBALL AND DIAMETER AND SPREAD CONFORMING WITH THE STANDARDS OF THE AMERICAN STANDARD OF NURSEY MEN.
4. STREET TREES SHALL NOT BE PLANTED WITHIN 10' OF A FIRE HYDRANT, DRIVEWAY APRON OR STORMWATER PIPE/CATCH BASIN OR WITHIN 25' OF ANY STREET LIGHT, STREET SIGN OR POINT OF CURVATURE OR TANGENCY OF ANY CORNER.
5. THERE SHALL BE NO PLANT SUBSTITUTIONS UNLESS AUTHORIZED BY THE STAFF OF THE BROOKHAVEN TOWN PLANNING DEPARTMENT.
6. ALL PLANT MATERIAL GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING CERTIFICATE OF OCCUPANCY.
7. ALL PLANTING BEDS TO BE MULCHED WITH 2" OF SHEDDED BARK.
8. ALL PLANTING BEDS TO RECEIVE 4' OF SCREENED TOPSOIL PRIOR TO PLANT INSTALLATION.
9. NO PLANT MATERIAL, EXCEPT LAWN OR GROUNDCOVER, IS TO BE LOCATED WITHIN 2' OF ANY PARKING LOT CURBS.

NOTES:

1) ALL PLANT MATERIAL GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING ACCEPTANCE BY OWNER.

2) ALL PLANTING BEDS SHALL BE WEEDED AND HAVE A MINIMUM FOUR (4) INCH THICK LAYER OF WOOD CHIPS (OR SHREDDED BARK).

3) ALL PLANTING AREAS TO RECEIVE 4" OF SCREENED TOPSOIL PRIOR TO PLANT INSTALLATION.

4) LANDSCAPING SHALL BE PLANTED AND MAINTAINED IN COMPLIANCE WITH TOWN OF HUNTINGTON SUBDIVISION REGULATIONS AND SITE IMPROVEMENT SPECIFICATIONS AND ADDENDA.

5) THERE SHALL BE NO PLANT SUBSTITUTIONS UNLESS AUTHORIZED BY THE STAFF OF THE HUNTINGTON TOWN PLANNING AND ENVIRONMENTAL DEPARTMENT.

6) NO PLANT MATERIAL, EXCEPT LAWN OR GROUNDCOVER, IS TO BE LOCATED WITHIN 2' OF ANY PARKING LOT CURBS.

7) ALL DECIDUOUS TREES TO BE SECURED WITH TWO 3" DIA. CEDAR STAKES 180 DEGREES APART.

8) ALL ROPES AND WIRES SURROUNDING ROOT BALL TO BE REMOVED PRIOR TO BACKFILLING OF TREE PITS. TREE TRUNK WRAP TO BE REMOVED.

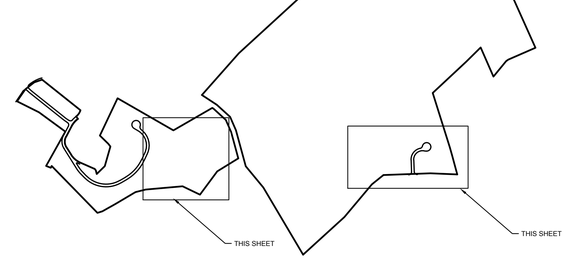
9) NO TREES TO BE LOCATED WITHIN 10' OF DRYWELLS, WALLS, OR PIPING AND DRAINAGE STRUCTURES AS PER TOWN OF HUNTINGTON STANDARDS.

10) ALL PROPOSED STREET TREES TO BE LIMBED UP TO A HEIGHT OF 7' TO AVOID ANY INTERFERENCE WITH PEDESTRIAN MOVEMENT ALONG PROPOSED SIDEWALKS.

11) FIELD PLANTING OF STREET TREES AND OTHER PLANT MATERIALS MUST BE UNDER THE SUPERVISION OF A LICENSED NEW YORK STATE REGISTERED LANDSCAPE ARCHITECT OR A QUALIFIED HORTICULTURIST DEEMED QUALIFIED BY THE REVIEWING AGENCY TO OVERSEE LANDSCAPE INSTALLATION IN ACCORDANCE WITH THE TOWN REQUIREMENTS. THE DEVELOPER MUST SUPPLY THE TOWN ENGINEER WITH AN AFFIDAVIT FROM THE REGISTERED LANDSCAPE ARCHITECT OR THE QUALIFIED HORTICULTURIST STATING THAT THE QUALITY, VARIETY, SIZE OF PLANTS AND PLANTING PROCEDURES CONFORM TO THE SPECIFICATIONS OF THE TOWN OF HUNTINGTON.

* IRRIGATION REQUIRED FOR LANDSCAPE AND LAWN AREAS.

HYDROSEED MIX "B" - 170 LBS/ACRE
ECOLOGY SUMMER MIXTURE
60% RELIANT HARD FESCUE
20% JAMESTOWN II CHEWING FESCUE
20% TRIBUTE TALL FESCUE



FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-03-2018	02-25-2019
1	REVISED LAYOUT	06-15-2018
No.	REVISION	DATE

OWNER:
I.H.C.E., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGUE, NY, 11788
(631) 351 - 4000

LANDSCAPE PLAN 3
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

R.B. IGNATOW
LANDSCAPE ARCHITECT
91 GREEN STREET
HUNTINGTON, NY 11743

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
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CHECKED BY:	JM	FILE NO.:	400-014	1"=50'	LP - 103
DATE: NOVEMBER, 2017		PROJECT NO.:	86047		SHEET NO.: 31 OF 43

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

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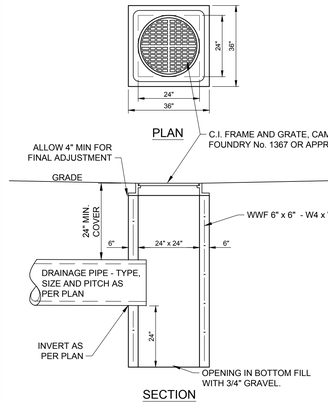
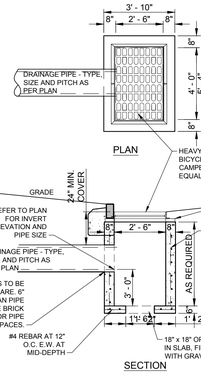


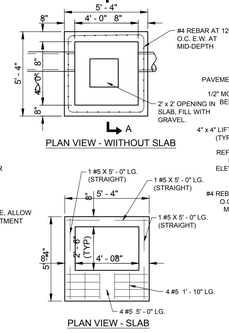
DRAINAGE BASIN DETAIL
DB
NOT TO SCALE

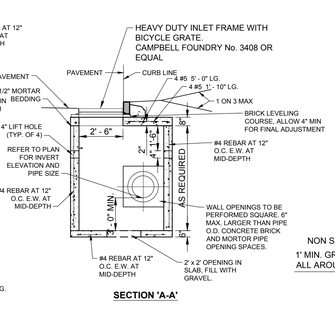
NOTES:
1. CONCRETE TO BE 1:2:4 MIX WITH A 4" - 5" SLUMP AND AGGREGATE PASSING THE 3/4" SIEVE.
2. ALL DRAINAGE PIPES MUST BE PROVIDED WITH A MINIMUM COVER OF 2' - 0".
3. ALL CONCRETE TO BE 4,000 PSI, AT 28 DAYS, AND AIR ENTRAINED.
4. WWF SHALL MEET A82 AND A185. REBAR SHALL MEET ASTM A615, GRADE 60.
5. WINDOW TO BE CAST IN STRUCTURE AS REQUIRED. KNOCK-OUT PANELS WILL NOT BE PERMITTED.



CATCH BASIN DETAIL
TYPE 1
NOT TO SCALE

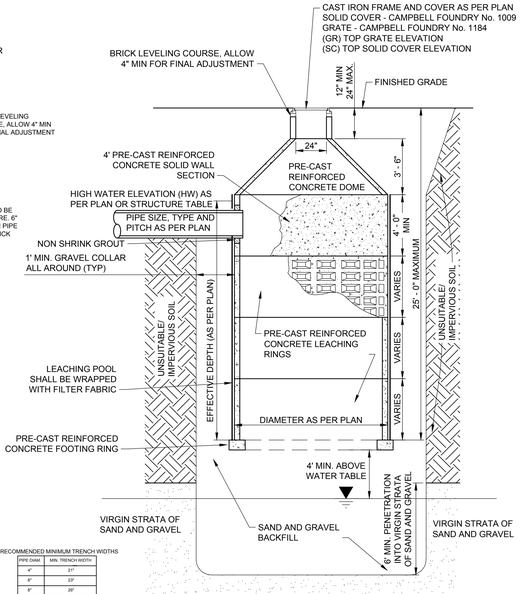
NOTES:
1. CONCRETE TO BE 1:2:4 MIX 4" - 5" SLUMP AGGREGATE PASSING 3/4" SIEVE.
2. ALL DRAINAGE PIPES MUST BE PROVIDED WITH A MINIMUM COVER OF 2' - 0".
3. ALL CONCRETE TO BE 4,000 PSI. AT 28 DAYS.
4. WWF A82 AND A185, REBAR ASTM A615, GRADE 60
5. W.W.M. - 6" x 6" - 4/4 Fs= 60,000 P.S.I.,A.S.T.M. A-185 PROVIDE 1 1/2" COVER AT ENDS OF VERTICAL WIRES, 1" RADIUS BENDS AT CORNERS.
6. UTILIZE 4 LIFT HOLES FOR HANDLING.
7. WINDOW TO BE CAST IN STRUCTURE AS REQUIRED. KNOCK-OUT PANELS WILL NOT BE PERMITTED.





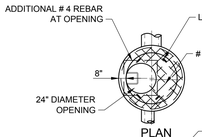
CATCH BASIN DETAIL
TYPE 3
NOT TO SCALE

NOTES:
1. CONCRETE TO BE 1:2:4 MIX 4" - 5" SLUMP AGGREGATE PASSING 3/4" SIEVE.
2. ALL DRAINAGE PIPES MUST BE PROVIDED WITH A MINIMUM COVER OF 2' - 0".
3. ALL CONCRETE TO BE 4,000 PSI. AT 28 DAYS.
4. WWF A82 AND A185, REBAR ASTM A615, GRADE 60
5. W.W.M. : 6" x 6" - 4/4 Fs= 60,000 P.S.I.,A.S.T.M. A-185 PROVIDE 1 1/2" COVER AT ENDS OF VERTICAL WIRES, 1" RADIUS BENDS AT CORNERS.
6. UTILIZE 4 LIFT HOLES FOR HANDLING.
7. WINDOW TO BE CAST IN STRUCTURE AS REQUIRED. KNOCK-OUT PANELS WILL NOT BE PERMITTED.



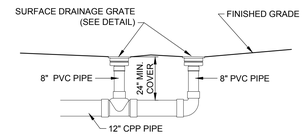
SECTION
LEACHING POOL DETAIL TYPE B
LP (T-B)
NOT TO SCALE

NOTES:
1. ALL DRAINAGE PIPES MUST BE PROVIDED WITH A MINIMUM 2'-0" OF COVER AND ENTER A SOLID WALL SECTION.
2. ANY UNSUITABLE MATERIAL UNDER THE LEACHING BASIN SHALL BE EXCAVATED AND REMOVED UNTIL A VIRGIN STRATA OF SAND AND GRAVEL IS ENCOUNTERED. AN ADDITIONAL 6' IS THEN TO BE EXCAVATED INTO THE VIRGIN SAND AND GRAVEL. ALL BACKFILL MUST BE CLEAN AND ACCEPTABLE MATERIAL PLACED UNDER THE SUPERVISION OF THE TOWN ENGINEER. PROVIDE 2" OF CLEAN SAND AND GRAVEL INSIDE THE BASE OF THE BASIN.
3. TOP DOME SHALL BE DESIGNED FOR AASHTO H-20 LOADING.
4. FILTER FABRIC SHALL BE MIRAFI 160N OR APPROVED EQUAL. (MAXIMUM APPARENT OPENING SIZE (AOS)SHALL BE 0.212 MM AS PER ASTM D4751).
5. CONCRETE: 4,000 PSI AT 28 DAYS.
6. ALL PRECAST DRAINAGE STRUCTURES SHALL BE FURNISHED WITH PRECAST OPENINGS FOR DRAINAGE PIPE. KNOCK-OUT PANELS WILL NOT BE ACCEPTED.

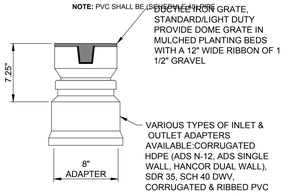


DRAINAGE MANHOLE DETAIL
DMH ON-SITE
NOT TO SCALE

NOTES:
1. CONCRETE TO BE 1:2:4 MIX WITH A 4" - 5" SLUMP AND AGGREGATE PASSING THE 3/4" SIEVE.
2. ALL DRAINAGE PIPES MUST BE PROVIDED WITH A MINIMUM COVER OF 2' - 0".
3. ALL CONCRETE TO BE 4,000 PSI, AT 28 DAYS, AND AIR ENTRAINED.
4. WWF SHALL MEET A82 AND A185. REBAR SHALL MEET ASTM A615, GRADE 60.
5. MANHOLE STEPS TO BE COPOLYMER POLYPROPYLENE, WITH 1/2" REINFORCING BAR.

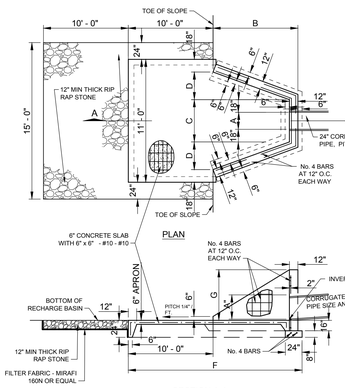


INLINE DRAIN DETAIL



SURFACE DRAINAGE GRATE DETAIL (SDG)
NOT TO SCALE

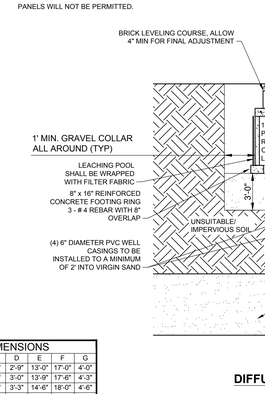
NOTES:
1. GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC.
3. DIMENSIONS ARE FOR REFERENCE ONLY ACTUAL DIMENSIONS MAY VARY.
4. INLET DRAINS AS MANUFACTURED BY NYLOPLAST.



DIMENSIONS							
A	B	C	D	E	F	G
18"	5'-6"	4'-6"	2'-0"	13'-0"	17'-0"	4'-0"
21"	6'-0"	4'-9"	3'-0"	13'-9"	17'-6"	4'-3"
24"	6'-6"	5'-0"	3'-3"	14'-6"	18'-0"	4'-6"
30"	7'-8"	5'-6"	3'-10"	16'-2"	19'-2"	5'-1"
36"	8'-8"	6'-0"	4'-4"	17'-8"	20'-2"	5'-7"
42"	9'-8"	6'-6"	4'-10"	19'-2"	21'-2"	6'-5"
48"	10'-10"	7'-0"	5'-5"	20'-10"	22'-4"	7'-3"

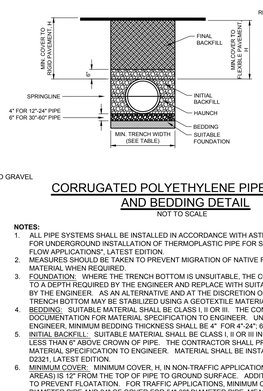
RECHARGE BASIN HEADWALL DETAIL
NOT TO SCALE

NOTES:
1. CONCRETE TO BE CLASS A - AIR ENTRAINED
2. ALL DRAINAGE PIPES MUST BE PROVIDED WITH A MINIMUM COVER OF 2' - 0".
3. ALL CONCRETE TO BE 4,000 PSI. AT 28 DAYS.
4. WELDED WIRE MESH - ASTM A82 AND A185,- FLAT SHEETS.
5. REBAR - ASTM A615, GRADE 60
6. CONCRETE SLAB SHALL BE STEEL TROWEL FINISHED.
7. TO BE CONSTRUCTED MONOLITHICALLY EXCEPT AS NOTED OR APPROVED.



DIFFUSSION WELL DETAIL (DW)
NOT TO SCALE

NOTES:
1. 3' OF UNSUITABLE MATERIAL UNDER THE LEACHING BASIN SHALL BE EXCAVATED AND REMOVED. BACKFILL WITH CLEAN SAND AND ACCEPTABLE MATERIAL TO THE PROPOSED BOTTOM OF WELL. ALL BACKFILL MUST BE PLACED UNDER THE SUPERVISION OF THE TOWN ENGINEER. PROVIDE 2" OF CLEAN SAND AND GRAVEL INSIDE THE BASE OF THE BASIN.
2. STEEL REINFORCED IN TOP SLAB # 5 BARS 6" EACH WAY.
3. FILTER FABRIC SHALL BE MIRAFI 160N OR APPROVED EQUAL. (MAXIMUM APPARENT OPENING SIZE (AOS)SHALL BE 0.212 MM AS PER ASTM D4751).
4. CONCRETE: 4,000 PSI AT 28 DAYS, WWF A-185, REBAR: ASTM A-615, GRADE 60, TOP DOME DESIGNED FOR AASHTO H-20 LOADING.

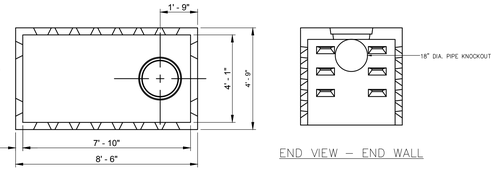


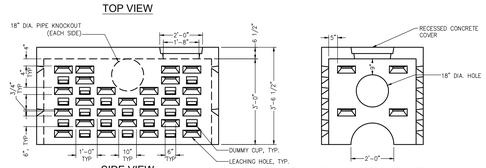
RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	25"
10"	28"
12"	30"
15"	34"
18"	38"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

CORRUGATED POLYETHYLENE PIPE TRENCH AND BEDDING DETAIL
NOT TO SCALE

NOTES:
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSUITABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4"-24"; 6" FOR 30"-60".
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.



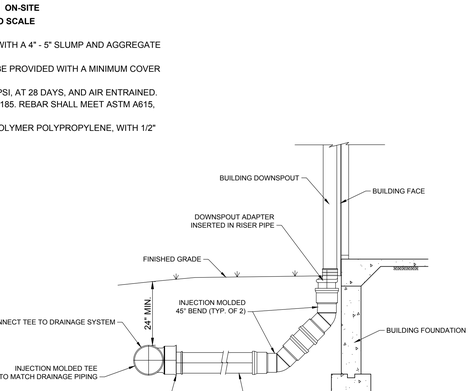


LEACHING GALLEY DATA

INTERNAL WALL HGT.	DRAIN WALL AREA (SF.)	INTERNAL VOLUME OF	GAL.	APPROX. TOTAL	DRAIN OPENINGS SIZE	ANGLE	WEIGHT (LB.)
3'-0"	51.0	96	718	34	3/4" X 6"	14 DEG.	6,485

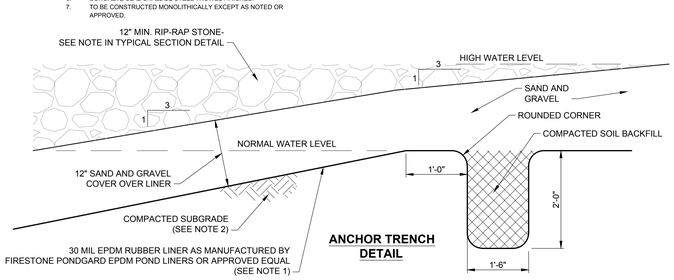
LEACHING GALLEY DETAIL
NOT TO SCALE

NOTES:
1. CONCRETE 4,000 PSI @ 28 DAYS
2. REBAR TO BE ASTM A-615 GRADE 60
3. WELDED WIRE FABRIC ASTM A-185
4. DESIGNED FOR AASHTO HS-20 LOADING
5. TOP SLAB AND WALL ARE MONOLITHIC

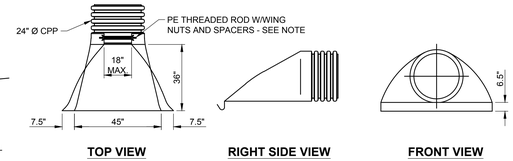


DOWNSPOUT CONNECTION DETAIL
NOT TO SCALE

NOTES:
1. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
2. ALL FITTINGS AND CONNECTIONS SHALL BE SOIL-TIGHT (ST) UNLESS OTHERWISE NOTED.
3. REFER TO ARCHITECTS PLANS FOR DOWNSPOUT LOCATIONS AND SIZES.

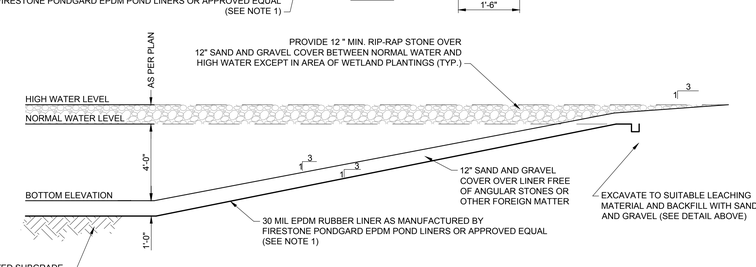


ANCHOR TRENCH DETAIL



FLARED END SECTION DETAIL
FES
NOT TO SCALE

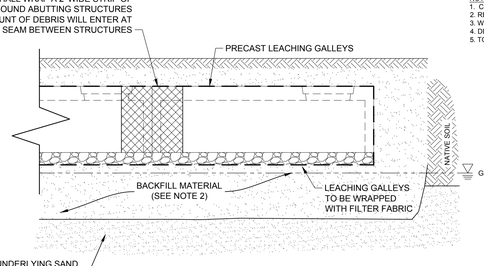
NOTE:
END SECTIONS REQUIRE TWO (2) THREADED RODS FOR ASSEMBLY.



POND AREA - TYPICAL SECTION DETAIL
NOT TO SCALE

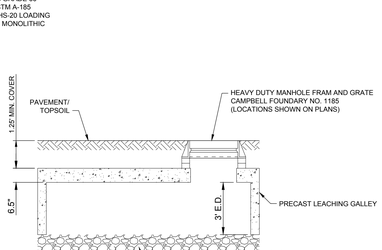
NOTES:
1. THE LINER SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
2. THE COMPACTED SUBGRADE SHALL BE SMOOTH, FIRM, UNYIELDING AND FREE OF VEGETATION, CONSTRUCTION DEBRIS, STICKS, SHARP ROCKS, VOID SPACES, ICE, ABRUPT ELEVATION CHANGES, STANDING WATER, CRACKS LARGER THAN 1/4" IN WIDTH AND ANY OTHER FOREIGN MATTER THAT COULD CONTACT THE LINER.

CONTRACTOR SHALL WRAP A 2' WIDE STRIP OF FILTER FABRIC AROUND ABUTTING STRUCTURES SO THAT NO AMOUNT OF DEBRIS WILL ENTER AT THE SEAM BETWEEN STRUCTURES



TYPICAL LEACHING GALLEY INSTALLATION DETAIL
NOT TO SCALE

LEACHING GALLEY NOTES:
1. UNSUITABLE MATERIAL SHALL BE REMOVED UNDER LEACHING POOL UNTIL 6' MIN. PENETRATION INTO VIRGIN STRATA OF SAND AND GRAVEL.
2. BACKFILL MATERIAL TO BE CLEAN SAND AND GRAVEL CONTAINING LESS THAN 15% FINE SAND, SILT AND CLAY. MATERIAL TO BE IMPORTED IF NATIVE MATERIALS ARE DETERMINED TO BE UNSUITABLE BY THE ENGINEER.
3. ALL CONCRETE TO BE 4,000 P.S.I., AT 28 DAYS, AND AIR ENTRAINED.
4. WELDED WIRE FABRIC SHALL MEET ASTM A82 AND A185.
5. REBAR SHALL MEET ASTM A615, GRAE 60.
6. STRUCTURE SHALL BE DESIGNED FOR AASHTO H-20 LOADING.



TYPICAL LEACHING GALLEY SECTION DETAIL
NOT TO SCALE

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FOR TOWN USE

No.	REVISION	DATE
1	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700
APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

DRAINAGE DETAILS
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY:	GEO	CADD No.:	86047 PM 2015 DETAILS.DWG	SCALE:	DRAWING NO.:
CHECKED BY:	JM	FILE NO.:	400-014	NONE	C - 501
DATE: DECEMBER, 2017		PROJECT NO.:	86047		SHEET NO.: 34 OF 43

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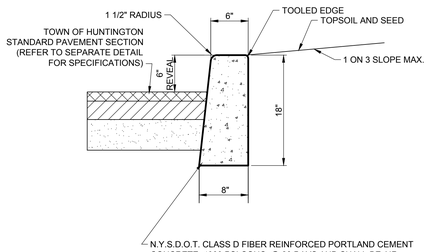
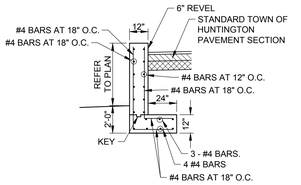


N.Y.S.D.O.T. CLASS D FIBER REINFORCED PORTLAND CEMENT CONCRETE. 4000 PSI CONC. @ 28 DAYS AND SHALL BE AIR ENTRAINED. EXPANSION JOINTS SHALL BE 1/2" RIGID BITUMINOUS MATERIAL AND SHALL BE PLACED AT INTERVALS NO GREATER THAN 12'-0" O.C. AND AT ALL PC'S AND PT'S

CONCRETE CURB DETAIL

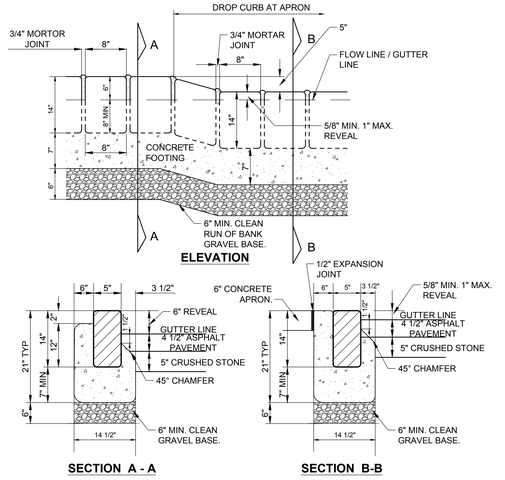
NOT TO SCALE



PHIL'S COURT WALL - CURB DETAIL

NOT TO SCALE

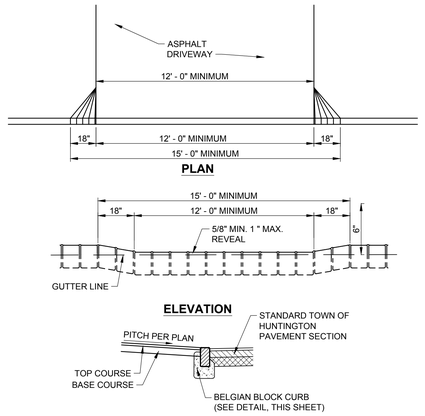
NOTES:
1. 4,000 PSI CONCRETE AS PER N.Y.S.D.O.T. ITEM 608.0101
2. ALL BARS SHALL HAVE A MINIMUM COVER OF 2"



BELGIAN BLOCK CURB DETAIL

NOT TO SCALE

NOTES:
1. CONCRETE TO BE 1:2:4 MIX 4" - 5" SLUMP AGGREGATE PASSING 3/4" SIEVE.
2. TYPICAL BELGIAN BLOCK TO BE 5" x 8" x 14" WITH COMPRESSIVE STRENGTH OF 4,000 PSI MINIMUM.
3. ALL CONCRETE TO BE 4,000 PSI.
4. MORTAR MIX TO BE IN ALL JOINTS.
5. BLOCKS SHALL BE WASHED PRIOR TO INSTALLATION.



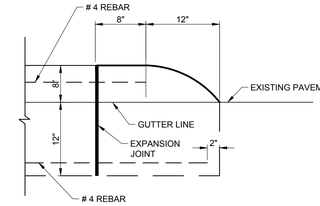
TOP COURSE: 1 1/2" N.Y.S.D.O.T. TYPE 6 FRA
BASE COURSE: 5" STONE BLEND OR
6" RECYCLED CONCRETE AGGREGATE

SECTION

DRIVEWAY APRON DETAIL

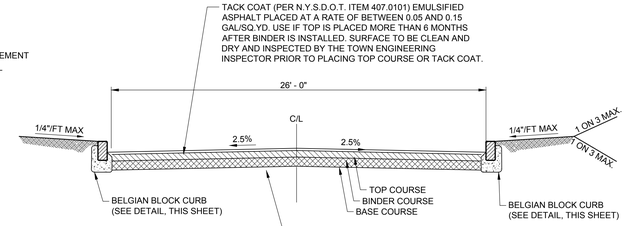
NOT TO SCALE

NOTES:
1. 4,000 PSI CONCRETE AS PER N.Y.S.D.O.T. ITEM 608.0101



CURB TERMINUS DETAIL

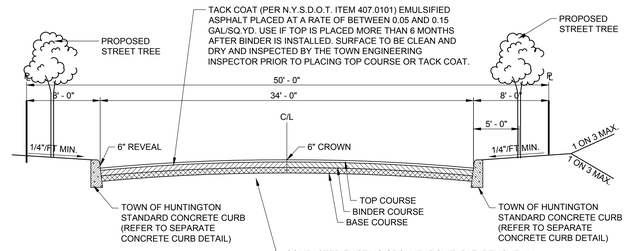
NOT TO SCALE



TOP COURSE: 1 1/2" N.Y.S.D.O.T. TYPE 6 FRA
BINDER COURSE: 3" N.Y.S.D.O.T. TYPE 3RA
BASE COURSE: 5" STONE BLEND OR
6" RECYCLED CONCRETE AGGREGATE

STANDARD ROADWAY SECTION

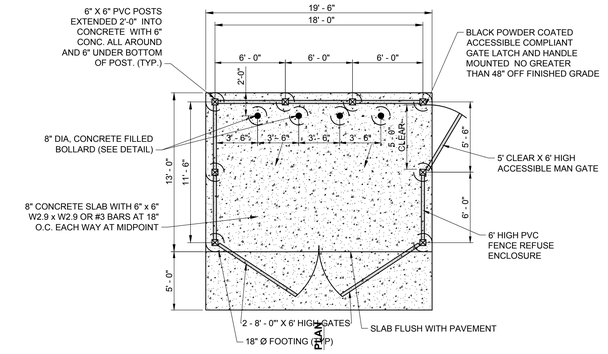
NOT TO SCALE

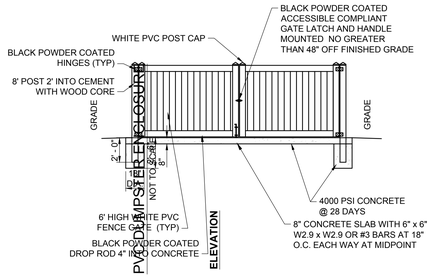


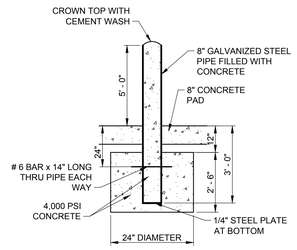
TOP COURSE: 1 1/2" N.Y.S.D.O.T. TYPE 6FRA
BINDER COURSE: 3" N.Y.S.D.O.T. TYPE 3RA
BASE COURSE: 5" STONE BLEND OR
6" RECYCLED CONCRETE
AGGREGATE

MYSTIC LANE ROADWAY SECTION

NOT TO SCALE







BOLLARD DETAIL

NOT TO SCALE

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FOR TOWN USE

No.	REVISION	DATE
1	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY. 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

SITE DETAILS
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
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PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY:	GEO	CADD No.:	86047 PM 2018 DETAILS.DWG	SCALE:	DRAWING NO.:
CHECKED BY:	JM	FILE NO.:	400-014	NONE	C - 502
DATE: DECEMBER, 2017		PROJECT NO.:	86047		SHEET NO.: 35 OF 43

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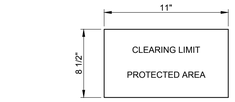
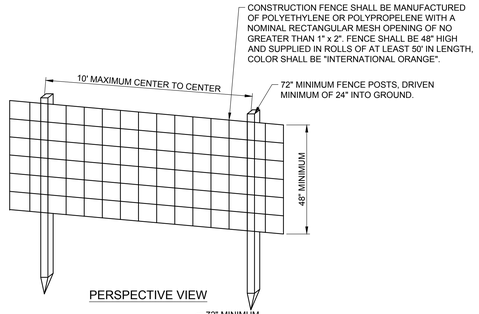
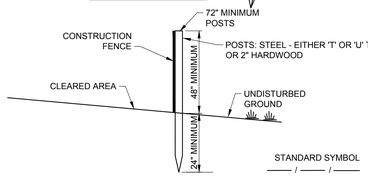


CLEARING SIGN DETAIL

NOTES:
1. THE SIGNS SHALL BE ATTACHED TO THE FENCE WITH WIRE SUBJECT TO THE APPROVAL OF THE ENGINEERING INSPECTOR.
2. SIGNS AND LETTERING SHALL BE OF WATERPROOF MATERIAL SUBJECT TO THE APPROVAL OF THE TOWN ENGINEERING INSPECTOR.
3. THE SIGNS SHALL BE LOCATED ON FENCING 20' MAXIMUM ON CENTER.
4. LETTERING SHALL BE 1" MINIMUM IN HEIGHT



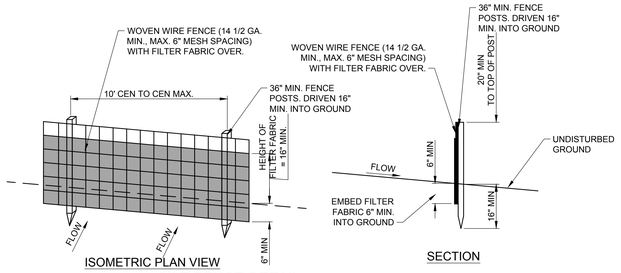
PERSPECTIVE VIEW



CONSTRUCTION FENCE DETAIL

NOT TO SCALE

NOTES
1. THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION FENCE IN LOCATIONS AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS OR MUNICIPAL AUTHORITIES.
2. THE PRIMARY PURPOSE OF THE CONSTRUCTION FENCE IS TO CLEARLY DELINEATE A CONSTRUCTION AREA AND PROVIDE SOME MEASURE OF PROTECTION FOR THE SURROUNDING NATURAL AREAS. IT IS NOT DESIGNED OR INTENDED TO BE AN IMPENETRABLE BARRIER TO THOSE INTENT ON ENTERING THE CONSTRUCTION SITE.
3. CONSTRUCTION FENCE SHALL BE INSTALLED BY WEAVING FENCE POSTS VERTICALLY THROUGH AT LEAST THREE (3) MESH OPENINGS (TOP, MIDDLE AND BOTTOM OF FENCE) AND DRIVING POSTS WITH A 3LB. HAMMER (OR EQUIVALENT) FLUSH WITH THE TOP OF FENCING. POSTS SHALL BE AT AN INTERVAL OF NO GREATER THAN TEN FEET. FENCING SHALL BE SECURED FIRMLY TO EACH POST AT THE TOP, BOTTOM AND MID-POINT WITH WIRE REBAR TIES. WHERE LENGTHS OF FENCING ARE JOINED, A POST SHALL BE WOVEN THROUGH BOTH FENCE SECTIONS AT THE JOINT, WITH TIES FASTENING BOTH FENCE SECTIONS TO THE POST. FENCING SHALL BE STRETCHED AS TAUT AS PRACTICAL BETWEEN FENCE POSTS WITHOUT INORDINATELY DEFLECTING POSTS. TEMPORARY OPENINGS IN CONSTRUCTION FENCE INSTALLATIONS SHALL BE PERMITTED FOR ENTRY OF WORKERS, MATERIALS AND EQUIPMENT. SUCH OPENINGS SHALL BE SECURED AT THE END OF EACH WORK DAY IN THE MANNER AFOREMENTIONED FOR JOINING FENCE SECTIONS.
4. POSTS: STEEL, EITHER "T" OR "U" TYPE OR 2" HARDWOOD.

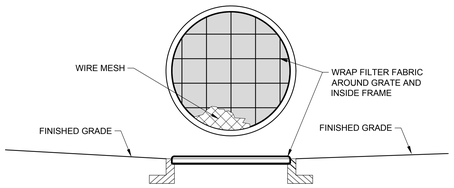


SILT FENCE DETAIL

NOT TO SCALE

STANDARD SYMBOL ——— SF ———

NOTES
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD.
6. FENCE: WOVEN WIRE, 14 1/2 GA. 6" MAX.MESH OPENING.
7. FILTER CLOTH SHALL BE A WOVEN GEOTEXTILE COMPOSED OF POLYPROPYLENE CONFORMING TO AASHTO M288.

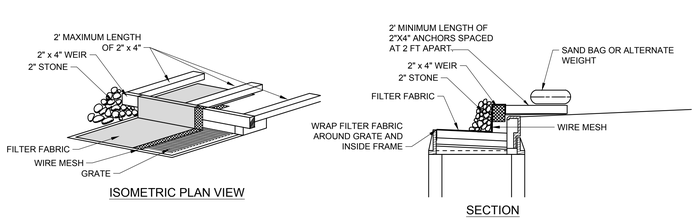


INLET GRATE PROTECTION DETAIL

NOT TO SCALE

STANDARD SYMBOL

NOTES
1. FILTER FABRIC SHALL HAVE AN APPROVED AOS OF 40-85
2. MAINTAIN / REPLACE FILTER FABRIC AS REQUIRED.

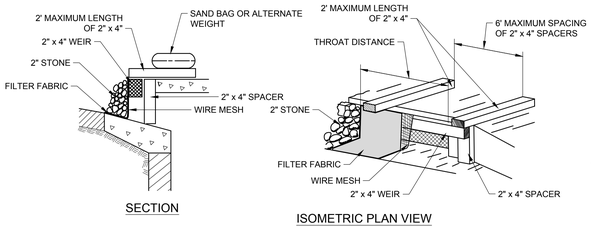


CURB AND GRATE INLET PROTECTION

NOT TO SCALE

STANDARD SYMBOL

1. FILTER FABRIC SHALL HAVE AN AOS OF 40-85.
2. WOODEN FRAME SHALL BE CONSTRUCTED OF 2" x 4" CONSTRUCTION GRADE LUMBER.
3. WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30 INCH MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY NAILED TO A 2" x 4" WEIR.
4. THE WEIR SHALL BE SECURELY NAILED TO 2" x 4" SPACERS 9 INCHES LONG SPACED NO MORE THAN 6 FEET APART.
5. 5. THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND SECURED BY 2" x 4" ANCHORS 2 FEET LONG EXTENDING ACROSS THE TOP OF THE INLET AND HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHTS.
6. MAXIMUM DRAINAGE AREA 1 ACRE

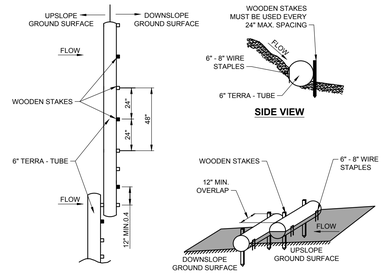


CURB DROP INLET PROTECTION

NOT TO SCALE

STANDARD SYMBOL

1. FILTER FABRIC SHALL HAVE AN AOS OF 40-85.
2. WOODEN FRAME SHALL BE CONSTRUCTED OF 2" x 4" CONSTRUCTION GRADE LUMBER.
3. WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30 INCH MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY NAILED TO A 2" x 4" WEIR.
4. THE WEIR SHALL BE SECURELY NAILED TO 2" x 4" SPACERS 9 INCHES LONG SPACED NO MORE THAN 6 FEET APART.
5. THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND SECURED BY 2" x 4" ANCHORS 2 FEET LONG EXTENDING ACROSS THE TOP OF THE INLET AND HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHTS.
6. MAXIMUM DRAINAGE AREA 1 ACRE.



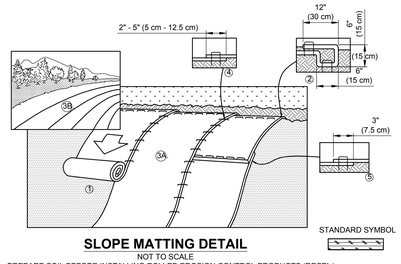
TERRA TUBE DETAIL

NOT TO SCALE

STANDARD SYMBOL

1. INSTALL TERRA-TUBES PRIOR TO ANY SEEDING.
2. REMOVE ALL OBSTRUCTIONS LARGER THAN 1"-2" IN DIAMETER.
3. ANCHOR UPSLOPE SIDE USING 6"-8" U-SHAPED WIRE STAPLES OR APPROVED DEVICE EVERY 1'. POSITION ANCHORS 1" INWARD FROM UPPER EDGE OF DEVICE, DRIVE FLUSH TO SOIL.
4. BACKFILL AND COMPACT LOOSE SOIL AGAINST UPSLOPE SIDE.
5. OVERLAP ADJACENT TUBES BY A MINIMUM OF 1'. REDUCE STAKE INTERVAL ON DOWNSLOPE SIDE TO 1' INTERVAL MAKING SURE TO PLACE A STAKE AT THE END OF THE TUBES.
6. REFER TO MANUFACTURERS' INSTALLATION GUIDE FOR ADDITIONAL INFORMATION.

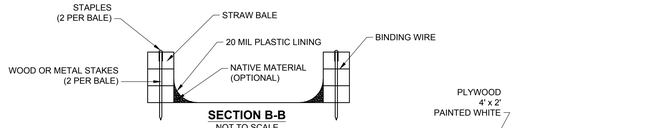
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.



SLOPE MATTING DETAIL

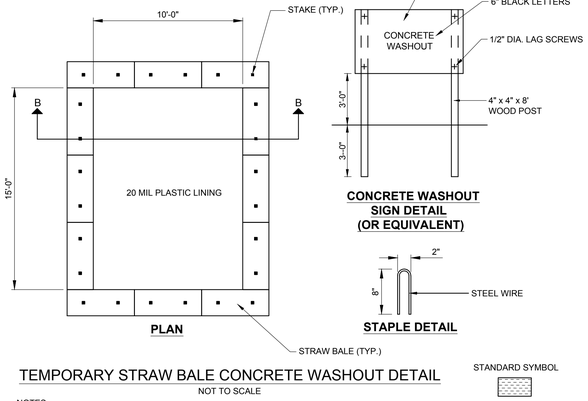
NOT TO SCALE

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM , STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH.
6. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.



SECTION B-B

NOT TO SCALE

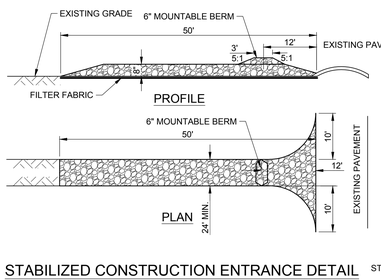


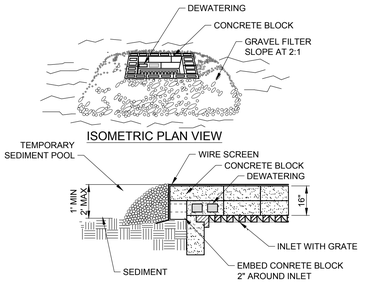
TEMPORARY STRAW BALE CONCRETE WASHOUT DETAIL

NOT TO SCALE

STANDARD SYMBOL

NOTES:
1. WASHOUT AREA SHALL BE A MINIMUM OF 50' FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES AND WATER COURSES.
2. ONCE CONCRETE WASTES ARE WASHED INTO DESIGNATED AREAS AND ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, COUNTY, AND STATE REGULATIONS.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 20' OF TEMPORARY WASHOUT FACILITY.





STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

STANDARD SYMBOL

NOTES
1. STONE SIZE - USE 2" STONE.
2. LENGTH - NOT LESS THAN 50 FEET .
3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH - TWENTY FOUR (24) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED,DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS- OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED. IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STONE AND BLOCK INLET PROTECTION DETAIL

NOT TO SCALE

STANDARD SYMBOL

NOTES
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.
5. MAXIMUM DRAINAGE AREA - 1 ACRE

DUST CONTROL NOTES

DEFINITION
THE CONTROL OF DUST RESULTING FROM LAND-DISTURBING ACTIVITIES.

PURPOSE
TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM DISTURBED SOIL SURFACES THAT MAY CAUSE OFF-SITE DAMAGE, HEALTH HAZARDS AND TRAFFIC SAFETY PROBLEMS.

CONDITIONS WHERE PRACTICE APPLIES
ON CONSTRUCTION ROADS, ACCESS POINTS, AND OTHER DISTURBED AREAS SUBJECT TO SURFACE DUST MOVEMENT AND DUST BLOWING WHERE OFF-SITE DAMAGE MAY OCCUR IF DUST IS NOT CONTROLLED.

DESIGN CRITERIA
CONSTRUCTION OPERATIONS SHOULD BE SCHEDULED TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ONE TIME. BUFFER AREAS OF VEGETATION SHOULD BE LEFT WHERE PRACTICAL. TEMPORARY OR PERMANENT STABILIZATION MEASURES SHOULD BE INSTALLED. NO SPECIFIC DESIGN CRITERIA ARE GIVEN; SEE CONSTRUCTION SPECIFICATIONS BELOW FOR COMMON METHODS OF DUST CONTROL.

WATER QUALITY MUST BE CONSIDERED WHEN MATERIALS ARE SELECTED FOR DUST CONTROL. WHERE THERE IS POTENTIAL FOR THE MATERIAL TO WASH OFF TO A STREAM OR WATER BODY, INGREDIENT INFORMATION MUST BE PROVIDED TO THE LOCAL PERMITTING AUTHORITY.

CONSTRUCTION SPECIFICATIONS

A. NON-DRIVING AREAS - THESE AREAS USE PRODUCTS AND MATERIALS APPLIED OR PLACED ON SOIL SURFACES TO PREVENT AIRBORNE MIGRATION OF SOIL PARTICLES.

VEGETATIVE COVER - FOR DISTURBED AREAS NOT SUBJECT TO TRAFFIC; VEGETATION PROVIDES THE MOST PRACTICAL METHOD OF DUST CONTROL. TEMPORARY SEEDING SHALL BE AS FOLLOWS:

RYE GRASS (ANNUAL OR PERENNIAL) AT 30 LBS. PER ACRE (0.7 LBS./1,000 S.F.)

CERTIFIED "AROOSTOOK" WINTER RYE (CEREAL RYE) AT 100 LBS. PER ACRE (2.5 LBS./S.F.)

USE WINTER RYE IF SEEDING IN OCTOBER / NOVEMBER.

MULCH (INCLUDING GRAVEL MULCH) - MULCH OFFERS A FAST, EFFECTIVE MEANS OF CONTROLLING DUST. THIS CAN ALSO INCLUDE ROLLED EROSION CONTROL BLANKETS.

SPRAY ADHESIVES - THESE ARE PRODUCTS GENERALLY COMPOSED OF POLYMERS IN A LIQUID OR SOLID FORM THAT ARE MIXED WITH WATER TO FORM AN EMULSION THAT IS SPRAYED ON THE SOIL SURFACE WITH TYPICAL HYDROSEEDING EQUIPMENT. THE MIXING RATIOS AND APPLICATION RATES WILL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC SOILS ON THE SITE. IN NO CASE SHOULD THE APPLICATION OF THESE ADHESIVES BE MADE ON WET SOILS OR IF THERE IS A PROBABILITY OF PRECIPITATION WITHIN 48 HOURS OF ITS PROPOSED USE. MATERIAL SAFETY DATA SHEETS WILL BE PROVIDED TO ALL APPLICATORS AND OTHERS WORKING WITH THE MATERIAL.

EXAMPLES OF SPRAY ADHESIVES FOR USE ON MINERAL SOILS ARE SHOWN IN THE FOLLOWING TABLE.

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS ACRE
ACRYLIC POLYMER	9:1	COURSE SPRAY	500
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300

B. DRIVING AREAS - THESE AREAS UTILIZE WATER, POLYMER EMULSIONS AND BARRIERS TO PREVENT DUST MOVEMENT FROM THE TRAFFIC SURFACE INTO THE AIR.

SPRINKLING - THIS SITE MAY BE SPRAYED UNTIL THE SURFACE IS WET. THIS IS ESPECIALLY EFFECTIVE ON HAUL ROADS AND ACCESS ROUTES.

POLYMER ADDITIVES - THESE POLYMERS ARE MIXED WITH WATER AND APPLIED TO THE DRIVING SURFACE BY A WATER TRUCK WITH A GRAVITY FEED DRIP BAR, SPRAY BAR OR AUTOMATED DISTRIBUTOR TRUCK. THE MIXING RATIOS AND APPLICATION RATES WILL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. INCORPORATION OF THE EMULSION INTO THE SOIL WILL BE DONE TO THE APPROPRIATE DEPTH BASED ON EXPECTED TRAFFIC. COMPACTION AFTER INCORPORATION WILL BE BY VIBRATORY ROLLER TO A MINIMUM OF 95%. THE PREPARED SURFACE SHALL BE MOIST AND NO APPLICATION OF THE POLYMER WILL BE MADE IF THERE IS A PROBABILITY OF PRECIPITATION WITHIN 48 HOURS OF ITS PROPOSED USE. MATERIAL SAFETY DATA SHEETS WILL BE PROVIDED TO ALL APPLICATORS WORKING WITH THE MATERIAL.

BARRIERS - WOVEN GEOTEXTILES CAN BE PLACED ON THE DRIVING SURFACE TO EFFECTIVELY REDUCE DUST THROW AND PARTICLE MIGRATION ON HAUL ROADS. STONE CAN ALSO BE USED FOR CONSTRUCTION ROADS FOR EFFECTIVE DUST CONTROL.

WINDBREAK - A SILT FENCE OR SIMILAR BARRIER CAN CONTROL AIR CURRENTS AT INTERVALS EQUAL TO TEN TIMES THE BARRIER HEIGHT. PRESERVE EXISTING WIND BARRIER VEGETATION AS MUCH AS PRACTICAL.

MAINTENANCE
MAINTAIN DUST CONTROL MEASURES THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS ARE STABILIZED.

EROSION CONTROL NOTES

1. A - EXISTING VEGETATION TO REMAIN SHALL BE PROTECTED AND REMAIN UNDISTURBED.
   B - CLEARING AND GRADING SHALL BE SCHEDULED SO AS TO MINIMIZE THE SIZE OF EXPOSED AREAS AND THE LENGTH OF TIME THAT AREAS ARE EXPOSED.
   C - THE LENGTH AND STEEPNESS OF CLEARED SLOPES SHALL BE MINIMIZED TO REDUCE RUN-OFF VELOCITIES.
   D - RUN-OFF SHALL BE DIVERTED AWAY FROM CLEARED SLOPES.
   E - SEDIMENT SHALL BE TRAPPED ON-SITE.
2. SPECIFIC METHODS AND MATERIALS EMPLOYED IN THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES SHALL CONFORM TO THE NEW YORK GUIDELINES FOR EROSION AND SEDIMENT CONTROL, LATEST EDITION.
3. SEDIMENT BARRIERS (SILT FENCES, HAY BALES OR APPROVED EQUAL) SHALL BE INSTALLED AS REQUIRED ALONG LIMITS OF DISTURBANCE FOR THE DURATION OF THE WORK. NO SEDIMENT FROM THE SITE SHALL BE PERMITTED TO WASH ON TO ADJACENT PROPERTIES, WETLANDS OR ROADS.
4. GRADED AND STRIPPED AREAS AND STOCKPILES SHALL BE KEPT STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AS REQUIRED. SEED MIXTURE SHALL BE IN ACCORDANCE WITH SOIL CONSERVATION SERVICE RECOMMENDATIONS.
5. DRAINAGE INLETS INSTALLED AS PART OF THE PROJECT SHALL BE PROTECTED FROM SEDIMENT BUILD-UP THROUGH THE USE OF SEDIMENT BARRIERS, SEDIMENT TRAPS, ETC., AS REQUIRED.
6. INSPECTION AND MAINTENANCE OF EROSION CONTROL MEASURES IS TO BE PERFORMED DAILY BY CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THE DAY AND AFTER HEAVY OR PROLONGED STORMS. MAINTENANCE MEASURES INCLUDE, BUT NOT LIMITED TO, CLEANING OF SEDIMENT BASINS OR TRAPS, CLEANING OR REPAIR OF SEDIMENT BARRIERS, CLEANING AND REPAIR OF BERMS AND DIVERSIONS, AND CLEANING AND REPAIR OF OF INLET PROTECTION.
7. APPROPRIATE MEANS SHALL BE USED TO CONTROL DUST DURING CONSTRUCTION. SEE DUST CONTROL NOTES, THIS SHEET.
8. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED TO PREVENT SOIL AND LOOSE DEBRIS FROM BEING TRACKED ONTO LOCAL ROADS. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL THE SITE IS PERMANENTLY STABILIZED.
9. SEDIMENT BARRIERS AND OTHER EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL UPLAND DISTURBED AREAS ARE PERMANENTLY STABILIZED. AFTER PERMANENT STABILIZATION, PAVED AREAS SHALL BE CLEANED AND DRAINAGE SYSTEM FLUSHED AS NECESSARY.
10. DURING THE COURSE OF CONSTRUCTION, CERTAIN EROSION AND SEDIMENT CONTROL MEASURES MAY BECOME NECESSARY TO PREVENT THE TRANSPORT OF SEDIMENT TO OFF-SITE AREAS, PONDS, WATER COURSES, DRAINAGE INLETS, RECHARGE BASINS, ETC. ACTUAL EROSION CONTROL MEASURES WILL BE DICTATED BY FIELD CONDITIONS AS CONSTRUCTION PROGRESSES BUT THE GENERAL CONDITIONS IN NOTES 1 THROUGH 9 SHALL BE OBSERVED.

FOR TOWN USE

No.	REVISION	DATE
1	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700
APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

SEDIMENT AND EROSION CONTROL DETAILS
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
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DRAWN BY: GEO	CADD No.: 86047 PW 2015 DETAILS.DWG	SCALE: NONE	DRAWING NO.: C - 503
CHECKED BY: JM	FILE NO.: 400-014		
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 36 OF 43

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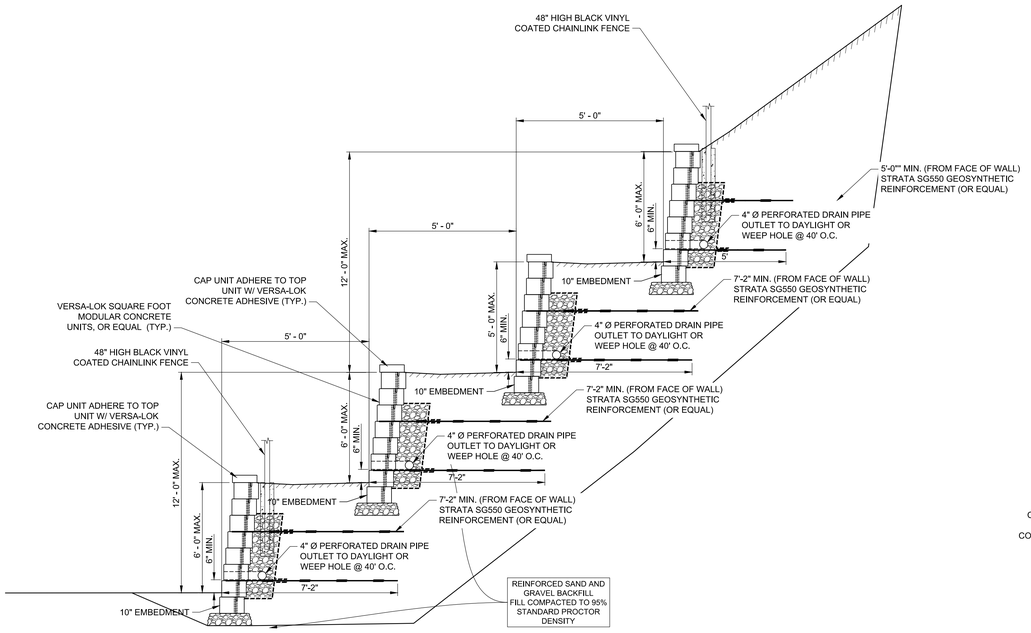
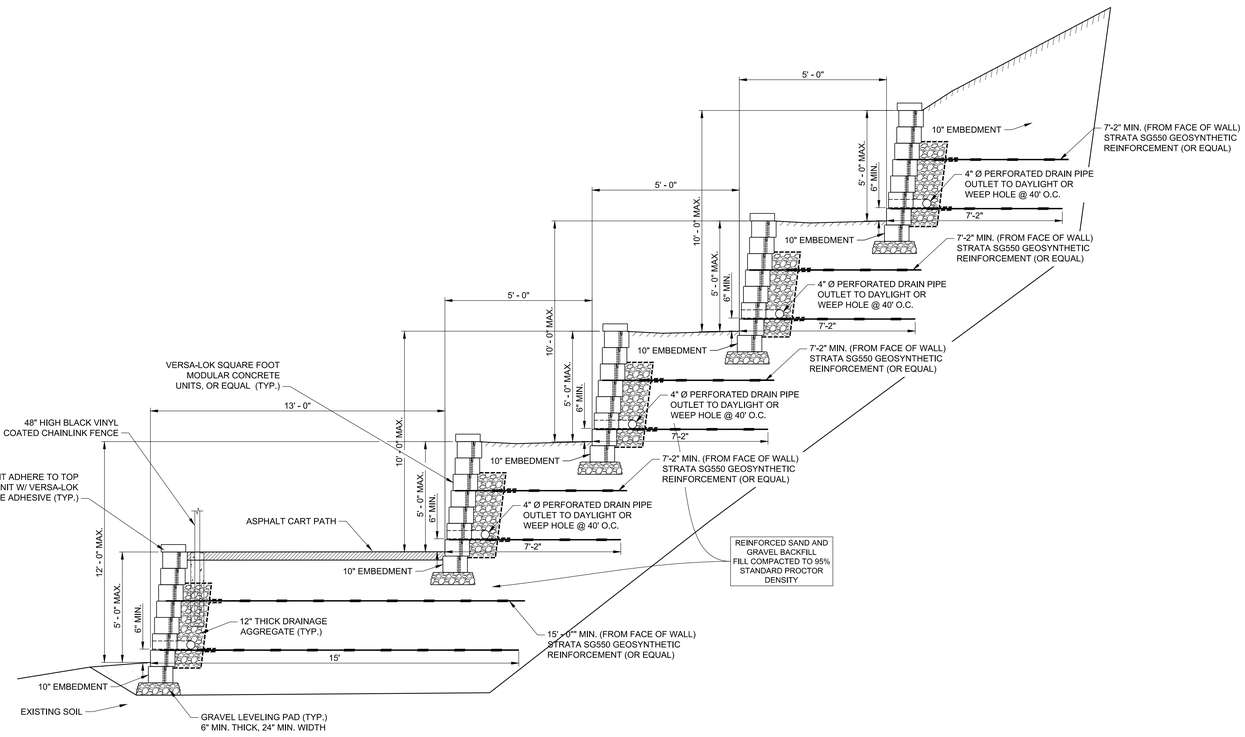


TYPYCAL MULTI - TIER
RETAINING WALL SECTION



MULTI - TIER RETAINING WALL SECTION
WITH GOLF CART PATH

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

FOR TOWN USE

No.	REVISION	DATE
1	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C. INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY. 11768
(631) 261 - 5700
APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

RETAINING WALL SECTIONS
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
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DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 37 OF 43

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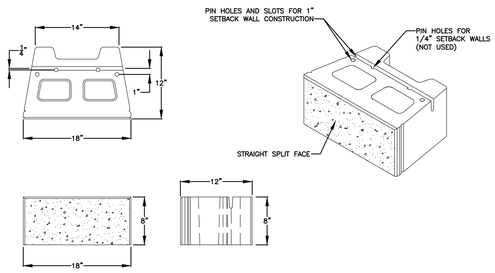
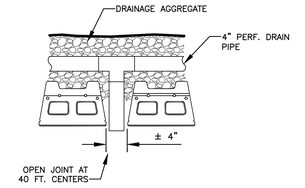
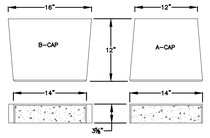


VERSA-LOK SQUARE FOOT UNIT
UNIT DIMENSIONS
SCALE: NONE

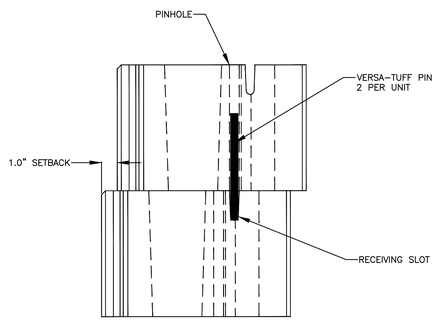


DRAIN DETAIL
SQUARE FOOT UNIT
SCALE: NONE

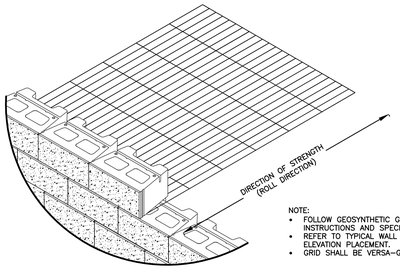
NOTE: PLACE COURSE ABOVE DRAIN PIPE CENTERED OVER PIPE PENETRATION.



VERSA-LOK CAP UNITS
UNIT DIMENSIONS
SCALE: NONE

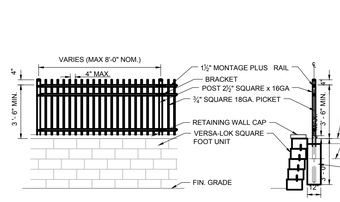


1.0" SETBACK PINNING DETAIL
SQUARE FOOT UNIT-CROSS SECTION
SCALE: NONE

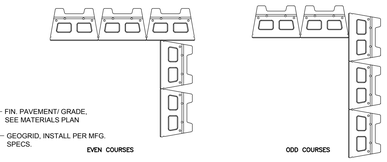


NOTE:
- FOLLOW GEOSYNTHETIC GRID MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS.
- REFER TO TYPICAL WALL SECTIONS FOR GEOGRID LENGTH AND ELEVATION PLACEMENT.
- GRID SHALL BE VERSA-GRID 3.0 OR AN APPROVED EQUAL.

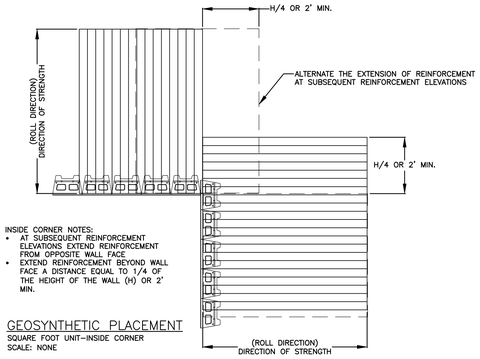
GEOSYNTHETIC INSTALLATION DETAIL
SQUARE FOOT UNIT
SCALE: NONE.



FENCE DETAIL
NOT TO SCALE

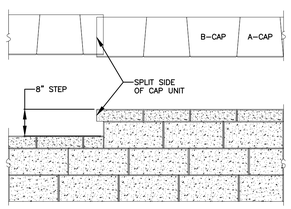


CORNER DETAIL
SQUARE FOOT UNIT-90° INSIDE
SCALE: NONE

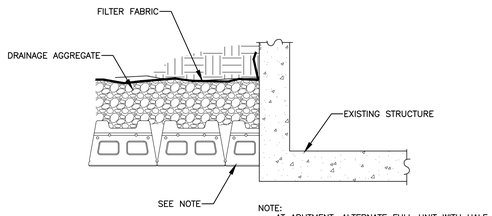


INSIDE CORNER NOTES:
- AT SUBSEQUENT REINFORCEMENT ELEVATIONS EXTEND REINFORCEMENT FROM OPPOSITE WALL FACE
- EXTEND REINFORCEMENT BEYOND WALL FACE A DISTANCE EQUAL TO 1/4 OF THE HEIGHT OF THE WALL (H) OR 2' MIN.

GEOSYNTHETIC PLACEMENT
SQUARE FOOT UNIT-INSIDE CORNER
SCALE: NONE



CAPPING DETAIL-PROFILE
SQUARE FOOT UNIT-STEP AT TOP OF WALL
SCALE: NONE



NOTE:
- AT ABUTMENT, ALTERNATE FULL UNIT WITH HALF UNIT EVERY OTHER COURSE
- START AT FIXED POINTS AND WORK INTO MIDDLE PART OF WALL
- DO NOT ATTACH VERSA-LOK UNITS TO OTHER STRUCTURES

WALL ABUTMENT DETAIL
SQUARE FOOT UNIT
SCALE: NONE

B. THE MAXIMUM PARTICAL SIZE OF POORLY-GRADED GRAVELS (GP) (NO FINES) SHALL NOT EXCEED 3/4 INCH.

C. THE PLASTICITY OF THE FINE FRACTION SHALL BE LESS THAN 20.

PART 3. CONSTRUCTION

3.01 INSPECTION

A. THE OWNER IS RESPONSIBLE FOR VERIFYING THAT THE CONTRACTOR MEETS ALL THE REQUIREMENTS OF THE SPECIFICATION. THIS INCLUDES ALL SUBMITTALS FOR MATERIALS AND DESIGN, QUALIFICATIONS, AND PROPER INSTALLATION OF WALL SYSTEM.

3.02 EXCAVATION

A. CONTRACTOR SHALL EXCAVATE TO THE LINES AND GRADES SHOWN ON THE PROJECT GRADING PLANS. CONTRACTOR SHALL TAKE PRECAUTIONS TO MINIMIZE OVER-EXCAVATION. OVER-EXCAVATION SHALL BE FILLED WITH COMPACTED INFILL MATERIAL.

B. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING STRUCTURES AND UTILITIES PRIOR TO EXCAVATION. CONTRACTOR SHALL ENSURE ALL SURROUNDING STRUCTURES ARE PROTECTED FROM THE EFFECTS OF WALL EXCAVATION. EXCAVATION SUPPORT, IF REQUIRED, IS THE RESPONSIBILITY OF THE CONTRACTOR.

3.03 FOUNDATION PREPARATION

A. FOLLOWING THE EXCAVATION, THE FOUNDATION SOIL SHALL BE EXAMINED BY THE OWNER'S SOILS ENGINEER TO ASSURE ACTUAL FOUNDATION SOIL STRENGTH MEETS OR EXCEEDS THE ASSUMED DESIGN BEARING STRENGTH OF 2.0 TONS PER S.F. SOILS NOT MEETING THE REQUIRED STRENGTH SHALL BE REMOVED AND REPLACED WITH INFILL SOILS.

B. FOUNDATION SOIL SHALL BE PROOFROLLED AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY AND INSPECTED BY THE OWNER'S SOILS ENGINEER PRIOR TO PLACEMENT OF LEVELING PAD MATERIALS.

C. DO NOT PLACE WALL SYSTEM ON LOOSE, SOFT, WET OR FROZEN SOIL.

3.04 LEVELING PAD CONSTRUCTION

A. LEVELING PAD SHALL BE PLACED AS SHOWN ON THE RETAINING WALL PLANS WITH A MINIMUM THICKNESS OF 6 INCHES. THE LEVELING PAD SHOULD EXTEND LATERALLY AT LEAST A DISTANCE OF 6 INCHES FROM THE TOE AND HEEL OF THE LOWER MOST SRW UNIT.

B. GRANULAR LEVELING PAD MATERIAL SHALL BE COMPACTED TO PROVIDE A FIRM, LEVEL BEARING SURFACE ON WHICH TO PLACE THE FIRST COURSE OF UNITS. WELL-GRADED SAND CAN BE USED TO SMOOTH THE TOP 1/4- TO 1/2-INCH OF THE LEVELING PAD. COMPACTION SHALL BE WITH MECHANICAL PLATE COMPACTORS TO ACHIEVE 95-PERCENT OF MAXIMUM STANDARD PROCTOR DENSITY (ASTM D 698).

3.05 SRW UNIT INSTALLATION

A. ALL SRW UNITS SHALL BE INSTALLED AT THE PROPER ELEVATION AND ORIENTATION AS SHOWN ON THE RETAINING WALL PLANS AND DETAILS. THE SRW UNITS SHALL BE INSTALLED IN GENERAL ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

B. FIRST COURSE OF SRW UNITS SHALL BE PLACED ON THE LEVELING PAD. THE UNITS SHALL BE LEVELED SIDE-TO-SIDE, FRONT-TO-REAR AND WITH ADJACENT UNITS, AND ALIGNED TO ENSURE INTIMATE CONTACT WITH THE LEVELING PAD. THE FIRST COURSE IS THE MOST IMPORTANT TO ENSURE ACCURATE AND ACCEPTABLE RESULTS. NO GAPS SHALL BE LEFT BETWEEN THE FRONT OF ADJACENT UNITS. ALIGNMENT MAY BE DONE BY MEANS OF A STRING LINE OR OFFSET FROM BASE LINE TO THE BACK OF THE UNITS.

C. THE VOIDS (CORES) OF THE BASE COURSE UNITS SHALL BE FILLED WITH CRUSHED GRAVEL. THE CORES OF ADDITIONAL COURSES SHALL BE FILLED WITH FREE-DRAINING AGGREGATE.

D. ALL EXCESS DEBRIS SHALL BE CLEANED FROM TOP OF UNITS AND THE NEXT COURSE OF UNITS INSTALLED ON TOP OF THE UNITS BELOW.

E. TWO VERSA-TUFF® CONNECTION PINS SHALL BE INSERTED THROUGH THE PIN HOLES OF EACH UPPER COURSE UNIT INTO RECEIVING SLOTS IN LOWER COURSE UNITS. PINS SHALL BE FULLY SEATED IN THE PIN SLOT BELOW. UNITS SHALL BE PUSHED FORWARD TO REMOVE ANY LOOSENESS IN THE UNIT-TO-UNIT CONNECTION.

F. PRIOR TO PLACEMENT OF NEXT COURSE, THE LEVEL AND ALIGNMENT OF THE UNITS SHALL BE CHECKED AND CORRECTED, WHERE NEEDED.

G. LAYOUT OF CURVES AND CORNERS SHALL BE INSTALLED IN ACCORDANCE WITH THE WALL PLAN DETAILS OR IN GENERAL ACCORDANCE WITH SRW MANUFACTURER'S INSTALLATION GUIDELINES. WALLS MEETING AT CORNERS SHALL BE INTERLOCKED BY OVERLAPPING SUCCESSIVE COURSES.

H. PROCEDURES "C" THROUGH "F" SHALL BE REPEATED UNTIL REACHING TOP OF WALL, JUST BELOW THE HEIGHT OF THE CAP UNITS. GEOSYNTHETIC REINFORCEMENT, DRAINAGE MATERIALS, AND REINFORCED BACKFILL SHALL BE PLACED IN SEQUENCE WITH UNIT INSTALLATION AS DESCRIBED IN SECTION 3.06, 3.07, AND 3.08.

3.06 GEOSYNTHETIC REINFORCEMENT PLACEMENT

A. ALL GEOSYNTHETIC REINFORCEMENT SHALL BE INSTALLED AT THE PROPER ELEVATION AND ORIENTATION AS SHOWN ON THE RETAINING WALL PLAN AND DETAILS.

B. AT THE ELEVATIONS SHOWN ON THE PLANS, (AFTER THE UNITS, DRAINAGE MATERIAL, AND BACKFILL HAVE BEEN PLACED TO THIS ELEVATION) THE GEOSYNTHETIC REINFORCEMENT SHALL BE LAID HORIZONTALLY ON COMPACTED INFILL AND ON TOP OF THE CONCRETE SRW UNITS. IT SHALL BE PLACED TO WITHIN ONE INCH OF THE FRONT FACE OF THE UNIT BELOW. EMBEDMENT OF THE GEOSYNTHETIC IN THE SRW UNITS SHALL BE CONSISTENT WITH SRW MANUFACTURER'S RECOMMENDATIONS. CORRECT ORIENTATION OF THE GEOSYNTHETIC REINFORCEMENT SHALL BE VERIFIED BY THE CONTRACTOR TO BE IN ACCORDANCE WITH THE GEOSYNTHETIC MANUFACTURER'S RECOMMENDATIONS. THE HIGHEST STRENGTH DIRECTION OF THE GEOSYNTHETIC MUST BE PERPENDICULAR TO THE WALL FACE.

C. GEOSYNTHETIC REINFORCEMENT LAYERS SHALL BE ONE CONTINUOUS PIECE FOR THEIR ENTIRE EMBEDMENT LENGTH. SPLICING OF THE GEOSYNTHETIC IN THE DESIGN STRENGTH DIRECTION (PERPENDICULAR TO THE WALL FACE) SHALL NOT BE PERMITTED. ALONG THE LENGTH OF THE WALL (PARALLEL TO THE FACE), HORIZONTALLY ADJACENT SECTIONS OF GEOSYNTHETIC REINFORCEMENT SHALL BE BUTTED IN A MANNER TO ASSURE 100-PERCENT COVERAGE PARALLEL TO THE WALL FACE.

D. TRACKED CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED DIRECTLY ON THE GEOSYNTHETIC REINFORCEMENT. A MINIMUM OF 6 INCHES OF BACKFILL IS REQUIRED PRIOR TO OPERATION OF TRACKED VEHICLES OVER THE GEOSYNTHETIC. TURNING SHOULD BE KEPT TO A MINIMUM. RUBBER-TIRED EQUIPMENT MAY PASS OVER THE GEOSYNTHETIC REINFORCEMENT AT SLOW SPEEDS (LESS THAN 5 MPH).

E. THE GEOSYNTHETIC REINFORCEMENT SHALL BE FREE OF WRINKLES PRIOR TO PLACEMENT OF SOIL FILL. THE NOMINAL TENSION SHALL BE APPLIED TO THE REINFORCEMENT AND SECURED IN PLACE WITH STAPLES, STAKES, OR BY HAND TENSIONING UNTIL REINFORCEMENT IS COVERED BY 6 INCHES OF FILL.

3.07 DRAINAGE MATERIALS

A. DRAINAGE AGGREGATE SHALL BE INSTALLED TO THE LINE, GRADES, AND SECTIONS SHOWN ON THE RETAINING WALL PLANS. DRAINAGE AGGREGATE SHALL BE PLACED TO THE MINIMUM THICKNESS SHOWN ON THE PLANS BETWEEN AND BEHIND UNITS.

B. DRAINAGE COLLECTION PIPES SHALL BE INSTALLED TO MAINTAIN GRAVITY FLOW OF WATER TO OUTSIDE THE REINFORCED SOIL ZONE. THE DRAINAGE COLLECTION PIPE SHALL OUTLET THROUGH THE WALL AS SHOWN ON THE PLANS.

3.08 BACKFILL PLACEMENT

A. THE REINFORCED BACKFILL SHALL BE PLACED AS SHOWN IN THE WALL PLANS IN THE MAXIMUM COMPACTED LIFT THICKNESS OF 8 INCHES AND SHALL BE COMPACTED TO A MINIMUM OF 95-PERCENT OF STANDARD PROCTOR DENSITY (ASTM D 698) AT A MOISTURE CONTENT WITHIN 2-PERCENT OF OPTIMUM. THE BACKFILL SHALL BE PLACED AND SPREAD IN SUCH A MANNER AS TO ELIMINATE WRINKLES OR MOVEMENT OF THE GEOSYNTHETIC REINFORCEMENT AND THE SRW UNITS.

B. ONLY HAND-OPERATED COMPACTION EQUIPMENT SHALL BE ALLOWED WITHIN 3 FEET OF THE BACK OF THE WALL UNIT. COMPACTION WITHIN THE 3 FEET BEHIND THE WALL UNIT SHALL BE ACHIEVED BY AT LEAST THREE (3) PASSES OF A LIGHTWEIGHT MECHANICAL TAMPER, PLATE, OR ROLLER.

C. AT THE END OF EACH DAY'S OPERATION, THE CONTRACTOR SHALL SLOPE THE LAST LEVEL OF BACKFILL AWAY FROM THE WALL FACING AND REINFORCED BACKFILL TO DIRECT WATER RUNOFF AWAY FROM THE WALL FACE.

D. AT COMPLETION OF WALL CONSTRUCTION, BACKFILL SHALL BE PLACED LEVEL WITH FINAL TOP-OF-WALL ELEVATION. IF FINAL GRADING, PAVING, LANDSCAPING, AND/OR STORM DRAINAGE INSTALLATION ADJACENT TO THE WALL IS NOT PLACED IMMEDIATELY AFTER WALL COMPLETION, TEMPORARY GRADING AND DRAINAGE SHALL BE PROVIDED TO ENSURE WATER RUNOFF IS NOT DIRECTED AT THE WALL NOR ALLOWED TO COLLECT OR POND BEHIND THE WALL UNTIL FINAL CONSTRUCTION ADJACENT TO THE WALL IS COMPLETED.

3.09 SRW CAPS

A. SRW CAPS SHALL BE PROPERLY ALIGNED AND GLUED TO UNDERLYING UNITS WITH VERSA-LOK® CONCRETE ADHESIVE, A FLEXIBLE, HIGH-STRENGTH CONCRETE ADHESIVE. RIGID ADHESIVE OR MORTAR IS NOT ACCEPTABLE.

B. CAPS SHALL OVERHANG THE TOP COURSE OF UNITS BY 3/4- TO 1-INCH. SLIGHT VARIATION IN OVERHANG IS ALLOWED TO CORRECT ALIGNMENT AT THE TOP OF THE WALL.

3.010 CONSTRUCTION ADJACENT TO COMPLETED WALL

A. THE OWNER IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION BY OTHERS ADJACENT TO THE WALL DOES NOT DISTURB THE WALL OR PLACE TEMPORARY CONSTRUCTION LOADS ON THE WALL THAT EXCEED DESIGN LOADS, INCLUDING LOADS SUCH AS WATER PRESSURE, TEMPORARY GRADES, OR EQUIPMENT LOADING. HEAVY PAVING OR GRADING EQUIPMENT SHALL BE KEPT A MINIMUM OF 3 FEET BEHIND THE BACK OF THE WALL FACE. EQUIPMENT WITH WHEEL LOADS IN EXCESS OF 150 PSF LIVE LOAD SHALL NOT BE OPERATED WITHIN 10 FEET OF THE FACE OF THE RETAINING WALL DURING CONSTRUCTION ADJACENT TO THE WALL. CARE SHOULD BE TAKEN BY THE CONTRACTOR TO ENSURE WATER RUNOFF IS DIRECTED AWAY FROM THE WALL STRUCTURE UNTIL FINAL GRADING AND SURFACE DRAINAGE COLLECTION SYSTEMS ARE COMPLETED.

SEGMENTAL RETAINING WALL SPECIFICATIONS

PART 1. GENERAL

1.01 DESCRIPTION

A. WORK INCLUDES FURNISHING AND INSTALLING SEGMENTAL RETAINING WALL (SRW) UNITS FOR THE WALLS INDICATED. THE SRW UNITS SHALL BE INSTALLED TO THE LINES AND GRADES DESIGNATED ON THE SITE GRADING PLANS.

1.02 REFERENCE STANDARDS

A. SEGMENTAL RETAINING WALL UNITS
1. ASTM C 1372
a. STANDARD SPECIFICATION FOR SEGMENTAL RETAINING WALL UNITS
2. ASTM C 140
a. STANDARD TEST METHODS OF SAMPLING AND TESTING CONCRETE MASONRY UNITS

B. GEOSYNTHETIC REINFORCEMENT
1. ASTM D 4595
a. TENSILE PROPERTIES OF GEOTEXTILES BY THE WIDE-WIDTH STRIP METHOD
2. ASTM D 5262
a. TEST METHOD FOR EVALUATING THE UNCONFINED CREEP BEHAVIOR OF GEOSYNTHETICS
3. GRI-GG1
a. SINGLE RIB GEOGRID TENSILE STRENGTH
4. GRI-GG5
a. GEOGRID PULLOUT

C. SOILS
1. ASTM D 698
a. MOISTURE DENSITY RELATIONSHIP FOR SOILS, STANDARD METHOD
2. ASTM D 422
a. GRADATION OF SOILS
3. ASTM D 424
a. ATTERBERG LIMITS OF SOIL

D. DRAINAGE PIPE
1. ASTM D 3034
a. SPECIFICATION FOR POLYVINYL CHLORIDE (PVC) PLASTIC PIPE
2. ASTM D 1248
a. SPECIFICATION FOR CORRUGATED PLASTIC PIPE

1.03 SUBMITTALS

A. MATERIAL SUBMITTALS: THE CONTRACTOR SHALL SUBMIT MANUFACTURERS' CERTIFICATIONS TWO WEEKS PRIOR TO START OF WORK STATING THAT THE SRW UNITS AND GEOSYNTHETIC REINFORCEMENT MEET THE REQUIREMENTS OF PART 2 OF THIS SPECIFICATION.

1.04 DELIVERY, STORAGE AND HANDLING

A. CONTRACTOR SHALL CHECK MATERIALS UPON DELIVERY TO ASSURE THAT SPECIFIED TYPE AND GRADE OF MATERIALS HAVE BEEN RECEIVED AND PROPER COLOR AND TEXTURE OF SRW UNITS HAVE BEEN RECEIVED.
B. CONTRACTOR SHALL PREVENT EXCESSIVE MUD, WET CONCRETE, EPOXIES, AND LIKE MATERIALS THAT MAY AFFIX THEMSELVES, FROM COMING IN CONTACT WITH MATERIALS.
C. CONTRACTOR SHALL STORE AND HANDLE MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
D. CONTRACTOR SHALL PROTECT MATERIALS FROM DAMAGE. DAMAGED MATERIALS SHALL NOT BE INCORPORATED INTO THE RETAINING WALL.

PART 2. MATERIALS

2.01 SEGMENTAL RETAINING WALL (SRW) UNITS

A. SRW UNITS SHALL BE MACHINE-FORMED, PORTLAND CEMENT CONCRETE BLOCKS SPECIFICALLY DESIGNED FOR RETAINING WALL APPLICATIONS. SRW UNITS SHALL BE SQUARE FOOT™ UNITS AS MANUFACTURED BY VERSA-LOK RETAINING WALL SYSTEMS.
B. COLOR OF SRW UNITS SHALL BE SELECTED BY OWNER.
C. FINISH OF SRW UNITS SHALL BE SPLIT FACE.
D. SRW UNIT FACES SHALL BE OF STRAIGHT GEOMETRY.
E. SRW UNIT HEIGHT SHALL BE 8 INCHES.
F. SRW UNITS (NOT INCLUDING AGGREGATE FILL IN UNIT VOIDS) SHALL PROVIDE A MINIMUM WEIGHT OF 80 PSF WALL FACE AREA.
G. SRW UNITS SHALL BE INTERLOCKED WITH CONNECTION PINS, DESIGNED WITH PROPER SETBACK TO PROVIDE 8:1 VERTICAL TO HORIZONTAL BATTER (A 7 DEGREE CANT FROM VERTICAL).
H. SRW UNITS SHALL BE CAPABLE OF BEING ERECTED WITH THE HORIZONTAL GAP BETWEEN ADJACENT UNITS NOT EXCEEDING 1/8 INCH.
I. SRW UNITS SHALL BE SOUND AND FREE OF CRACKS OR OTHER DEFECTS THAT WOULD INTERFERE WITH THE PROPER PLACING OF THE UNIT OR SIGNIFICANTLY IMPAIR THE STRENGTH OR PERMANENCE OF THE STRUCTURE. CRACKING OR EXCESSIVE CHIPPING MAY BE GROUNDS FOR REJECTION. UNITS SHOWING CRACKS LONGER THAN 1/2" SHALL NOT BE USED WITHIN THE WALL. UNITS SHOWING CHIPS VISIBLE AT A DISTANCE OF 30 FEET FROM THE WALL SHALL NOT BE USED WITHIN THE WALL.
J. CONCRETE USED TO MANUFACTURE SRW UNITS SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 3,000 PSI AND A MAXIMUM MOISTURE ABSORPTION RATE, BY WEIGHT, OF 8 PERCENT AS DETERMINED IN ACCORDANCE WITH ASTM C140. COMPRESSIVE STRENGTH TEST SPECIMENS SHALL CONFORM TO THE SAW-CUT CURING PROVISIONS OF ASTM C140.
K. SRW UNITS' MOLDED DIMENSIONS SHALL NOT DIFFER MORE THAN ± 1/8 INCH FROM THAT SPECIFIED, IN ACCORDANCE WITH ASTM C1372.

2.02 SEGMENTAL RETAINING WALL UNIT CONNECTION PINS

A. SRW UNITS SHALL BE INTERLOCKED WITH VERSA-TUFF® CONNECTION PINS. THE PINS SHALL CONSIST OF GLASS-REINFORCED NYLON MADE FOR THE EXPRESSED USE WITH THE SRW UNITS SUPPLIED.

2.03 GEOSYNTHETIC REINFORCEMENT

A. GEOSYNTHETIC REINFORCEMENT SHALL CONSIST OF GEOGRIDS OR GEOTEXTILES MANUFACTURED AS A SOIL REINFORCEMENT ELEMENT. THE MANUFACTURERS/SUPPLIERS OF THE GEOSYNTHETIC REINFORCEMENT SHALL HAVE DEMONSTRATED CONSTRUCTION OF SIMILAR SIZE AND TYPES OF SEGMENTAL RETAINING WALLS ON PREVIOUS PROJECTS.
B. THE TYPE, STRENGTH, AND PLACEMENT LOCATION OF THE REINFORCING GEOSYNTHETIC SHALL BE AS SHOWN ON THE RETAINING WALL PLANS.

2.04 LEVELING PAD

A. MATERIAL FOR LEVELING PAD SHALL CONSIST OF COMPACTED SAND, GRAVEL, OR COMBINATION THEREOF (USCS SOIL TYPES GP, GW, SP, & SW) AND SHALL BE A MINIMUM OF 6 INCHES IN DEPTH. LEAN CONCRETE WITH A STRENGTH OF 200 TO 300 PSI AND THREE INCHES THICK MAXIMUM MAY ALSO BE USED AS A LEVELING PAD MATERIAL. THE LEVELING PAD SHOULD EXTEND LATERALLY AT LEAST A DISTANCE OF 6 INCHES FROM THE TOE AND HEEL OF THE LOWER MOST SRW UNIT.

2.05 DRAINAGE AGGREGATE

A. DRAINAGE AGGREGATE SHALL BE ANGULAR, CLEAN STONE OR GRANULAR FILL MEETING THE FOLLOWING GRADATION AS DETERMINED IN ACCORDANCE WITH ASTM D422

SIEVE SIZE	PERCENT PASSING
1 INCH	100
3/4 INCH	75-100
NO. 4	0-60
NO. 40	0-50
NO. 200	0-5

2.06 DRAINAGE PIPE

A. THE DRAINAGE COLLECTION PIPE SHALL BE A PERFORATED OR SLOTTED PVC, OR CORRUGATED HDPE PIPE. THE DRAINAGE PIPE SHALL BE WRAPPED WITH A GEOTEXTILE TO FUNCTION AS A FILTER.
B. DRAINAGE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM D 3034 AND/OR ASTM D 1248

2.07 REINFORCED (INFILL) SOIL

A. THE REINFORCED SOIL MATERIAL SHALL BE FREE OF DEBRIS. THE REINFORCED MATERIAL SHALL CONSIST OF THE INORGANIC USCS SOIL TYPES GP,GW,SW,SP,SM MEETING THE FOLLOWING GRADATION, AS DETERMINED IN ACCORDANCE WITH ASTM D422.

SIEVE SIZE	PERCENT PASSING
4 INCHES	100
NO. 4	20-100
NO. 40	0-60
NO. 200	0-35

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.

FOR TOWN USE

No.	REVISION	DATE
1	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROMERO REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

RETAINING WALL DETAILS
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY:	GEO	CADD No.:	86047 PM 2019 DETAILS.DWG	SCALE:	DRAWING NO.:
CHECKED BY:	JM	FILE NO.:	400-014	NONE	C - 505
DATE: DECEMBER, 2017		PROJECT NO.:	86047		SHEET NO.: 38 OF 43

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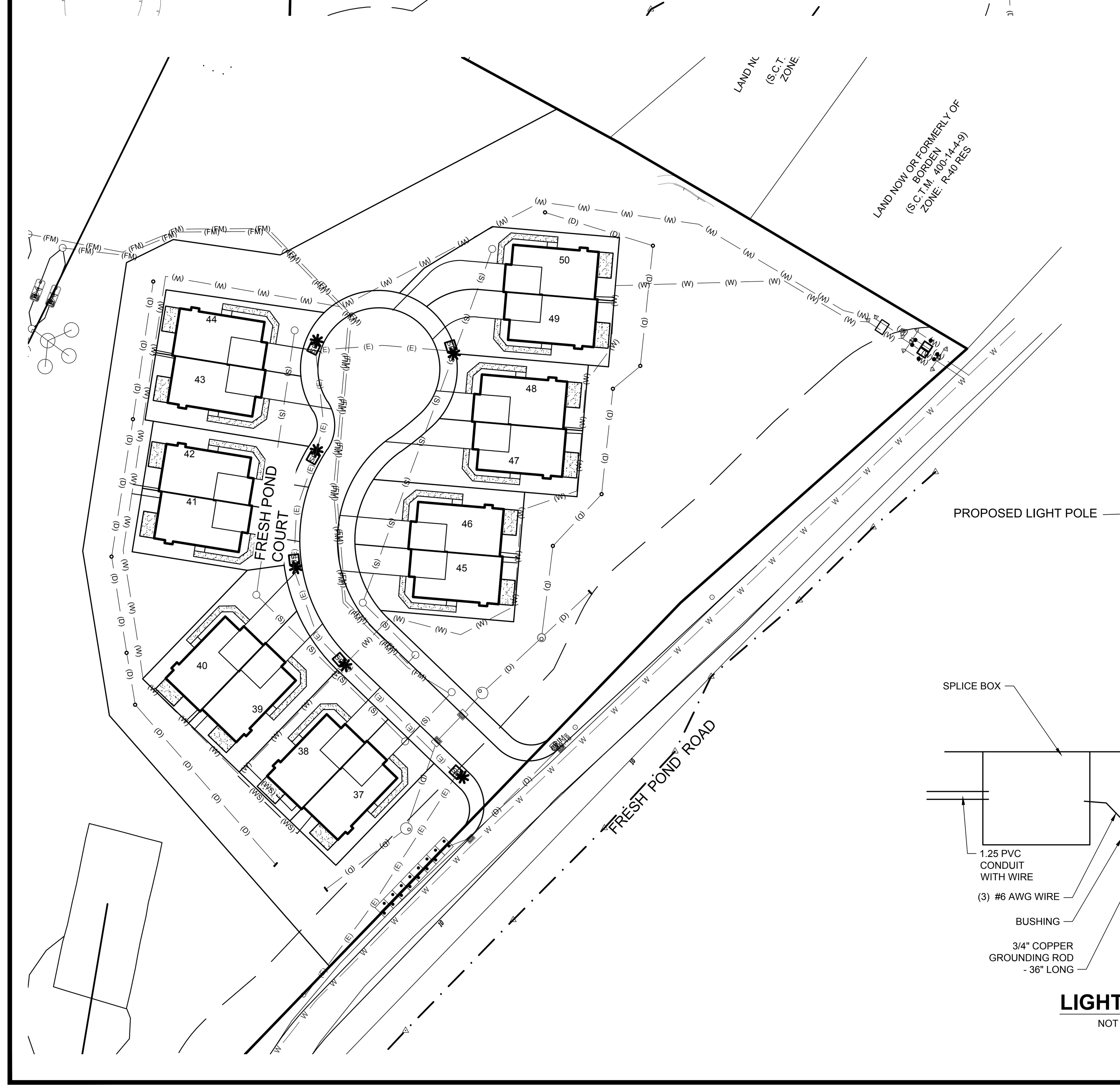
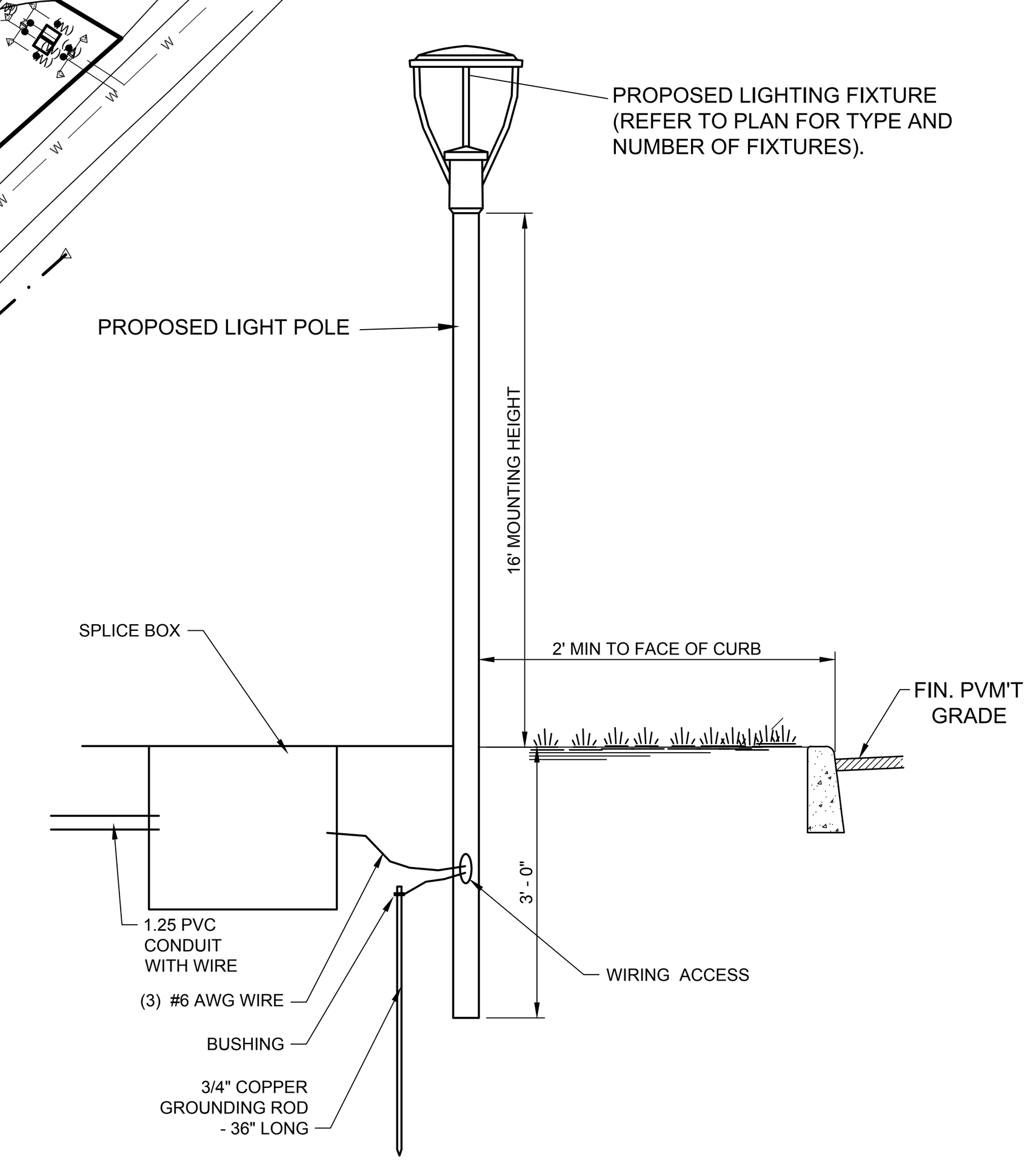
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND SPECIFIC DESCRIPTION OF THE ALTERATION.







LIGHT DETAIL
NOT TO SCALE

TOWN OF HUNTINGTON
REGULATIONS FOR INSTALLATION OF STREETLIGHTING
IN RESIDENTIAL SUBDIVISIONS

1. GENERAL: STREETLIGHT POLES, LUMINARIES, AND ALL NECESSARY UNDERGROUND ELECTRIC WIRING, CONDUIT AND SPLICE BOXES SHALL BE INSTALLED IN ALL NEW SUBDIVISIONS.

2. PLANS: PRIOR TO COMMENCEMENT OF THE INSTALLATION, PLANS OF THE PROPOSED STREETLIGHT LAYOUT SHALL BE SUBMITTED TO THE TOWN STREETLIGHTING DEPARTMENT FOR APPROVAL. PLANS SHALL BE DRAWN TO SCALE AND INCLUDE THE PROPOSED LOCATION OF DRIVEWAYS, PSEG TRANSFORMERS AND SERVICE BOXES, AND THE PROPOSED STREETLIGHTING FACILITIES.

3. LOCATION OF STREETLIGHTS: THE PLANS SUBMITTED FOR APPROVAL SHALL INDICATE THE LOCATION AND SPACING OF THE PROPOSED STREETLIGHTS, ELECTRIC SERVICE POINTS FOR THE LIGHTS, AND PROPOSED CONDUIT RUNS. IN GENERAL, STREETLIGHTS SHALL BE INSTALLED AT EACH STREET INTERSECTION, AT THE END OF EACH CUL-DE-SAC, AND SHALL BE SPACED 95 TO 125 FEET APART. INSTALLATION OF ADDITIONAL LIGHTING MAY BE REQUIRED AT CURVES IN THE ROADWAY, WITHIN LARGE CUL-DE-SACS, AND IN OTHER SPECIAL INSTANCES. THE STREETLIGHTS SHALL BE LOCATED ON THE SAME SIDE OF THE STREET AS THE PSEG ELECTRIC TRANSFORMERS AND THE STREETLIGHT WIRING SHALL NOT PASS BENEATH ROADWAYS. WHETHER POSSIBLE STREETLIGHTS SHALL BE LOCATED ON THE PROPERTY LINE BETWEEN TWO HOUSES. STREETLIGHTING CIRCUITS SHALL BE LIMITED TO A MAXIMUM OF SIX (6) LIGHTS PER CIRCUIT.

4. GENERAL INSTALLATION REQUIREMENTS: ALL INSTALLATION WORK AND EQUIPMENT, WIRING AND ASSOCIATED EQUIPMENT, SPLICING AND WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, STANDARD INDUSTRY PRACTICE, AND THE REQUIREMENTS OF PSEG AND THE TOWN WIDE STREETLIGHTING DISTRICT. INSTALLATION OF ALL STREETLIGHTING EQUIPMENT SHALL BE PERFORMED BY AN ELECTRICAL CONTRACTOR LICENSED BY SUFFOLK COUNTY, NY.

5. INSPECTIONS: UPON COMMENCEMENT OF THE INSTALLATION WORK, THE TOWN STREETLIGHTING INSPECTORS WILL PERFORM REGULAR INSPECTIONS OF THE WORK. THE BUILDER SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE TOWN STREETLIGHTING DEPARTMENT 48 HOURS PRIOR TO THE START OF ANY WORK TO ALLOW FOR SCHEDULING OF THE REQUIRED INSPECTIONS. IN NO CASE SHALL ANY EXCAVATIONS BE BACK FILLED UNTIL THE INSTALLATION HAS BEEN INSPECTED AND APPROVED THE TOWN LIGHTING INSPECTOR. UPON COMPLETION AND FINAL TESTING OF THE INSTALLATION BY THE CONTRACTOR, THE TOWN STREETLIGHTING INSPECTOR WILL PERFORM A FINAL INSPECTION OF THE WORK. ALL FINAL GRADING OF THE CONDUIT TRENCHES AND BACK FILL AROUND SPLICE BOXES AND LIGHT POLES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE OF THE JOB. UPON APPROVAL OF THE COMPLETED INSTALLATION, THE TOWN WILL ISSUE A NOTICE TO PSEG TO ENERGIZE THE LIGHTS.

6. LIGHT FIXTURES: THE STREETLIGHT FIXTURES SHALL BE 70 WATT HIGH PRESSURE SODIUM VAPOR, COLONIAL STYLE, POST TOP FIXTURES EQUAL TO TOWN OF HUNTINGTON STANDARD SPECIFICATIONS (ITEM 1 ATTACHED). FIXTURES SHALL BE PAINTED BLACK. A CLEAR 70-WATT HIGH PRESSURE SODIUM VAPOR LAMP SUPPLIED BY AN APPROVED MANUFACTURER SHALL BE INSTALLED IN THE FIXTURE. A PHOTOELECTRIC CONTROL EQUAL TO TOWN OF HUNTINGTON STANDARD SPECIFICATIONS (ITEM 2 ATTACHED) SHALL BE INSTALLED IN THE FIXTURE. THE FIXTURE SHALL BE GROUNDED BY MEANS OF AN APPROVED GROUNDING LUG ASSEMBLY.

7. LIGHT POLES: THE FIXTURES SHALL BE INSTALLED ON BLACK, FIBERGLASS, PEDESTAL TYPE POLES EQUAL TO TOWN OF HUNTINGTON STANDARD SPECIFICATIONS (ITEM 3 ATTACHED). POLES SHALL BE DIRECT BURIAL TYPE WITH A FIXTURE MOUNTING HEIGHT OF 16 FEET ABOVE GRADE (19' OVERALL LENGTH WITH 3' EMBEDMENT IN THE GROUND). POLES SHALL BE INSTALLED LEVEL AND PLUMB AND SOIL THOROUGHLY COMPACTED AFTER INSTALLATION. POLES SHALL BE WIRED USING #12 AWG STRANDED COPPER WIRE, TYPE XLP-USE INSULATION. WIRE INSULATION SHALL BE COLOR-CODED ALONG ITS ENTIRE LENGTH AS FOLLOWS: BLACK-HOT LEG; WHITE-NEUTRAL; GREEN-GROUND.

8. CONDUIT: ALL UNDERGROUND ELECTRIC WIRE SHALL BE INSTALLED IN CONDUIT AT A MINIMUM DEPTH OF 24" BELOW FINAL GRADE. CONDUIT SHALL BE INSTALLED DIRECTLY BEHIND THE CURB UNLESS FIELD CONDITIONS PREVENT SUCH INSTALLATION. ANY SUCH DEVIATION SHALL REQUIRE PRIOR APPROVAL OF THE TOWN LIGHTING INSPECTOR. CONDUIT SHALL BE 1.25' DIAMETER, SCHEDULE 80 PVC HEAVY DUTY CONDUIT UNLESS LOCATED WITHIN AREAS SUBJECT TO VEHICLE WHEEL LOADS EXCEPTING DRIVEWAY APRONS SHALL BE 1.25 " GALVANIZED STEEL CONDUIT. CONDUIT SHALL ENTER/EXIT SPLICE BOXES FROM BELOW BY MEANS OF 220° CONDUIT SWEEPS. ALL CONDUIT SECTIONS SHALL BE JOINED AND BENDS FABRICATED USING APPROVED METHODS. BACKFILL SHALL BE FREE OF LARGE ROCKS, PAVING MATERIAL, CONSTRUCTION DEBRIS, WOOD, ETC.; AND SHALL BE THOROUGHLY COMPACTED AND GRADED. NO BACKFILLING OF TH TRENCH SHALL BE PERFORMED PRIOR TO INSPECTION AND APPROVAL BY THE TOWN LIGHTING INSPECTOR. PRIOR TO INSTALLATION OF THE CABLE, ALL CONDUIT RUNS SHALL BE INSPECTED TO CERTIFY THAT THE CONDUIT IS PROPERLY ALIGNED, CLEAN, AND SATISFACTORY FOR THE CABLE INSTALLATION.

9. UNDERGROUND ELECTRIC WIRING: UNDERGROUND STREETLIGHT WIRING SHALL BE #6 AWG, STRANDED COPPER WIRE, TYPE XLP-USE INSULATION, RATED FOR 600 VOLT OPERATION AND SHALL BE U.L. LISTED. WIRE INSTALLATION SHALL BE COLOR-CODED ALONG ITS ENTIRE LENGTH AS FOLLOWS: BLACK-HOT LEG; WHITE-NEUTRAL; GREEN-GROUND. ALL WIRE SPLICING SHALL BE PERFORMED INSIDE APPROVED SPLICE BOXES. ALL SPLICES AND CONNECTIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL, SHALL BE MADE USING APPROVED SPLIT-BOLT (BUG-NUT) CONNECTORS, AND SHALL BE INSULATED USING AN APPROVED WATERPROOF METHOD.

10. SPLICE BOXES: A SPLICE BOX FOR SPLICING AND FUSING SHALL BE INSTALLED AT THE BASE OF EACH STREETLIGHT POLE. THE SPLICE BOX SHALL BE EQUAL TO TOWN OF HUNTINGTON STANDARD SPECIFICATIONS (ITEM 4 ATTACHED). SPLICE BOXES SHALL BE INSTALLED DIRECTLY BEHIND THE CURB AND THE TOP OF THE BOX SHALL BE LEVEL WITH THE FINISHED GRADE. ANY SPLICE BOXES THAT SETTLE AFTER INSTALLATION WILL BE BROUGHT UP TO FINAL GRADE PRIOR TO FINAL ACCEPTANCE OF THE JOB. CONDUIT RUNS SHALL ENTER/EXIT SPLICE BOXES FROM BELOW BY MEANS OF 220° CONDUIT SWEEPS. EACH STREETLIGHT POLE SHALL BE INDIVIDUALLY FUSED IN THE SPLICE BOX USING A BUSSMAN #HEB-AA FUSEHOLDER AND BUSSMAN #FNM-10 FUSE OR APPROVED EQUAL.

11. ELECTRIC SERVICE BOXES: AN UNDERGROUND SERVICE SPLICE BOX SHALL BE INSTALLED AT THE POINT OF CONNECTION TO PSEG'S FACILITIES. THE SPLICE BOX SHALL BE EQUAL TO TOWN OF HUNTINGTON STANDARD SPECIFICATIONS (ITEM 4 ATTACHED). THE SERVICE BOX SHALL BE INSTALLED WITHIN ONE (1) FOOT OF PSEG'S SECONDARY SPLICE BOX AND THE COMPLETED INSTALLATION SHALL MEET ALL OF THE REQUIREMENTS OF PSEG. DIRECT BURIAL SERVICE CABLE SHALL BE INSTALLED FROM THE TOWN SERVICE BOX INTO PSEG'S SECONDARY SPLICE BOX AND A LENGTH OF SLACK CABLE SUFFICIENT FOR CONNECTION BY PSEG SHALL BE LEFT COILED INSIDE THE PSEG SECONDARY SPLICE BOX. SERVICE CABLE SHALL BE TWO (2) CONDUCTORS WITH GROUND, #6 AWG, STRANDED COPPER WIRE, TYPE XLP-USE, COLOR-CODED AS PER SECTION 9. EACH CIRCUIT SHALL BE FUSED INSIDE THE TOWN SERVICE SPLICE BOX USING A BUSSMAN #HEJ-BB FUESHOLDER AND A BUSSMAN #SC-35 FUSE OR APPROVED EQUAL.

IT WILL BE THE BUILDERS RESPONSIBILITY TO ASSURE THAT EACH PSEG SECONDARY SPLICE BOX PLANNED FOR UTILIZATION AS AN ELECTRIC SERVICE POINT INCLUDES THE RUD MULTIPLE SERVICE (CRAB/CANDELABRA) CONNECTOR'S REQUIRED FOR CONNECTION OF THE STREETLIGHTING SERVICE BY PSEG PERSONNEL.

12. REQUIRED SUBMISSIONS: PRIOR TO START OF THE WORK, THE BUILDER SHALL SUBMIT FOR APPROVAL THE MAKE, MODEL NUMBER, AND CATALOG CUTS FOR ALL EQUIPMENT PROPOSED FOR INSTALLATION.

13. IN ACCORDANCE WITH DARK SKY RECOMMENDATIONS ALL STREET LIGHTING SHALL BE 3,00 K OR WARMER. ADDITIONALLY, IN ORDER TO SAVE ENERGY AND LESSEN THE IMPACT ON HUMAN HEALTH AND THE ENVIRONMENT, THE EXTERIOR LIGHTING INSTALLED ON THE RESIDENTIAL PROPERTIES SHALL ALSO BE LED WITH A LIGHT TEMPERATURE OF 3,00 K OR WARMER.

LEGEND

Symbol	Description
☀	PROPOSED STREET LIGHT (SINGLE LUMINAIRE)
T	PROPOSED PSEG TRANSFORMER
SB	PROPOSED SPLICE BOX
— (E) — (E) —	(3) #6 AWG IN 1.25" GALVANIZED STEEL CONDUIT OR (3) #6 AWG IN 1 1/4" SCHEDULE 80 PVC CONDUIT

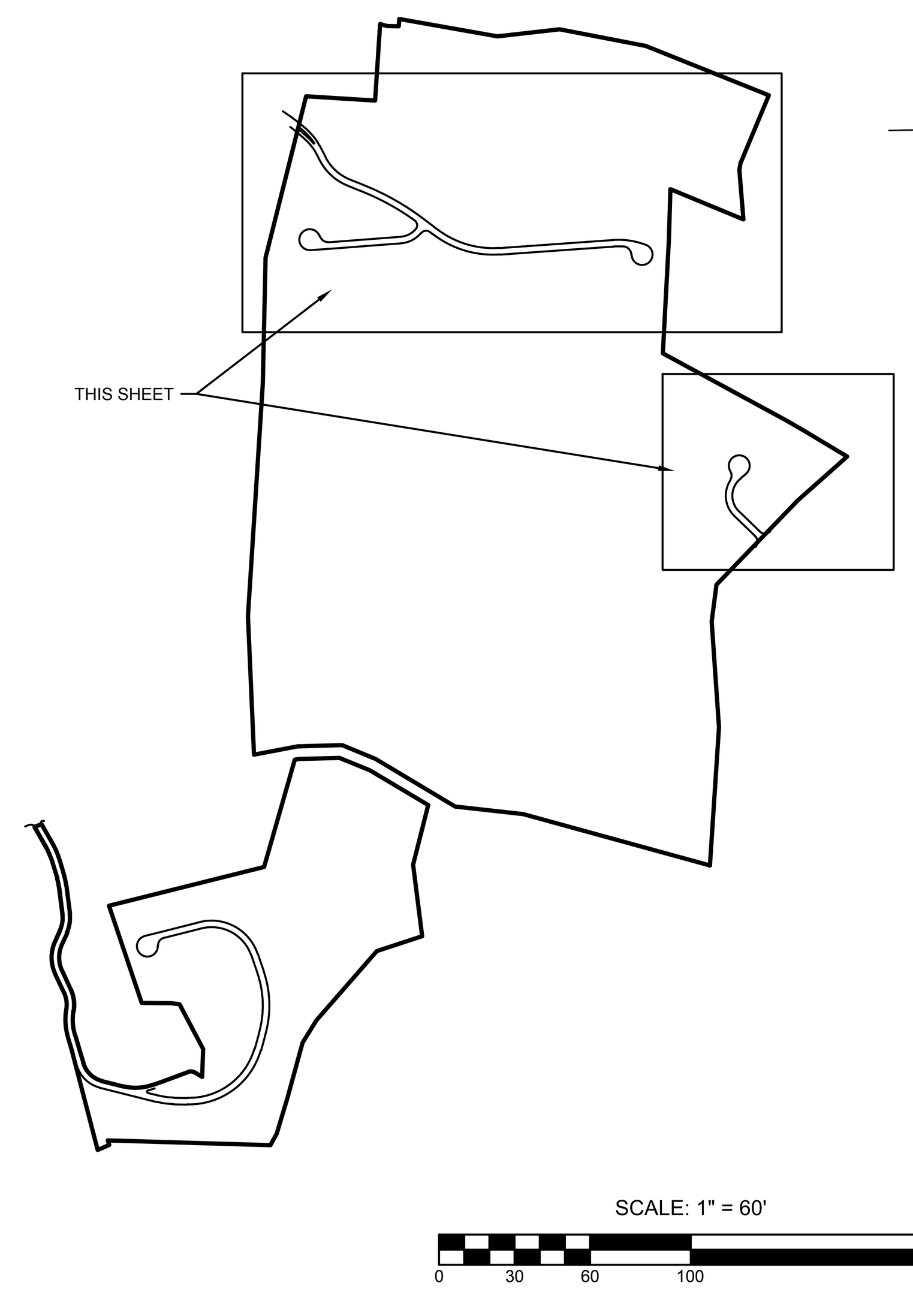
LEGEND

EXISTING

Symbol	Description	Symbol	Description
P92.59	PAVEMENT ELEVATION	94	CONTOUR
TC92.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC92.2	BOTTOM OF CURB ELEVATION	W	WATER
X92.0	SPOT ELEVATION	G	GAS
	ELECTRIC BOX	X	FENCE
	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
G	GAS VALVE	OHW	OVERHEAD WIRE
WV	WATER VALVE	D	DRAINAGE
T	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		TREE TO REMAIN
W.S.	WATER SERVICE		MONUMENT
G.M.	GAS MAIN		

PROPOSED

Symbol	Description	Symbol	Description
(TC92.00)	TOP OF CURB ELEVATION	(W)	WATER
(BC91.5)	BOTTOM OF CURB ELEVATION	(FS)	FIRE SERVICE
x(92.0)	SPOT ELEVATION	(WS)	WATER SERVICE
LP	LEACHING POOL	(E)	ELECTRIC
CB	CATCH BASIN	(G)	GAS
SMH	SANITARY MANHOLE	X	FENCE
DMH	DRAINAGE MANHOLE	(HC)	SANITARY HOUSE CONNECTION
(93)	CONTOUR	(D)	DRAINAGE
	LEACHING POOL W/ OPEN GRATE	(RD)	ROOF DRAIN
	LEACHING POOL W/ SOLID COVER	(T)	TELEPHONE
	DRAINAGE BASIN	(CATV)	TELEVISION
	CATCH BASIN (TC ~ TOP OF CURB BOX)	/ / /	LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
	HYDRANT		CONCRETE SIDEWALK / CONCRETE APRON
PS	STREET TREE W / SYMBOL		



SCALE: 1" = 60'
0 30 60 100 200

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

LIGHTING PLAN - NORTH PARCEL
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
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WWW.NELSONPOPE.COM

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DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 32 OF 43	

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American Revolution Full Cutoff LED

Series 247CL

PRODUCT OVERVIEW



Features:

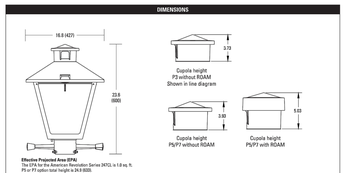
- Die-cast aluminum housing and hood for long-life performance
- Die-cast hinged latch (T1) and captive thumb screws option available for easy access to internal components
- Optical assembly designed for maximum performance, available in Type II, Type III and Type V
- Hinged hood and captive thumb screws provision afford quick, easy access to electrical and optical area for servicing
- Slipfitter with three set screws allows secure installation to pole sizes 2-3/8" or 3" O.D.
- Surge protection device (standard) exceeds ANSI C62.41 Category C1 criteria (surge tested at 10kV/5kA)
- Complies with ANSI: C136.2, C136.10, C136.15
- CSA listed and suitable for up to 30°C ambient
- Rated L70, LED life greater than 100,000 hours at 25°C
- Replaces up to 150W HPS light source incumbent models
- LED electronic 0V-10V dimmable driver
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Applications:

Streetscapes
Walkways
Pathways
Parks

CAT. # 247CL 20LEDE70 MVOLT 4K R3 PCLL

DIMENSIONS



Effective Projected Area (EPA):
The EPA for the American Revolution Series 247CL is 1.0 sq. ft. P5 or P7 option total height is 24.9 (633).
Approx. Wt.: ~ 36 lbs.

All dimensions are inches (millimeters) unless otherwise noted.

Note: Specifications subject to change without notice.
American Revolution Full Cutoff Series 247CL LED

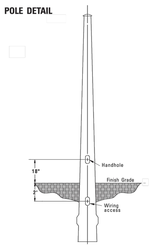
AEL American Electric Lighting

RTFDB Round Tapered Fiberglass Poles - Direct Burial

TECHNICAL INFORMATION

Catalog Number	Nominal fixture mounting height (feet)	Pole shaft size (in x in x ft)	EPA (ft²) with 1.3 gust 80 mph	90 mph	100 mph	Max. weight	Approximate ship weight (pounds)
RTFDB 18-6X	14	6.5 x 4.1 x 18	14.0	10.4	7.9	150	34
RTFDB 20-6-6X	16	6.7 x 4.1 x 20	10.0	7.4	5.5	100	38
RTFDB 24-6-7X	20	6.7 x 4.1 x 24	8.2	5.8	4.1	150	46
RTFDB 30-9-3X	25	8.2 x 4.5 x 30	8.2	4.7	3.6	100	71
RTFDB 30-8-4X	25	8.4 x 4.7 x 30	14.5	11.2	8.9	200	98
RTFDB 35-8-4X	30	8.4 x 4.7 x 35	10.5	8.0	6.2	200	116
RTFDB 35-9-5X	30	8.5 x 4.9 x 35	14.8	11.4	9.0	300	153
RTFDB 41-11-8X	35	11.8 x 8.4 x 41	14.3	10.8	7.8	300	218

POLE DETAIL



IMPORTANT:

- These specifications are intended for general purposes only. Lithonia reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.

LITHONIA LIGHTING®
An AcuityBrands Company

Sheet #: Pole-RTFDB

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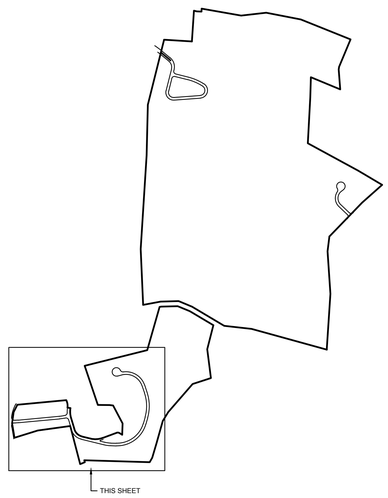



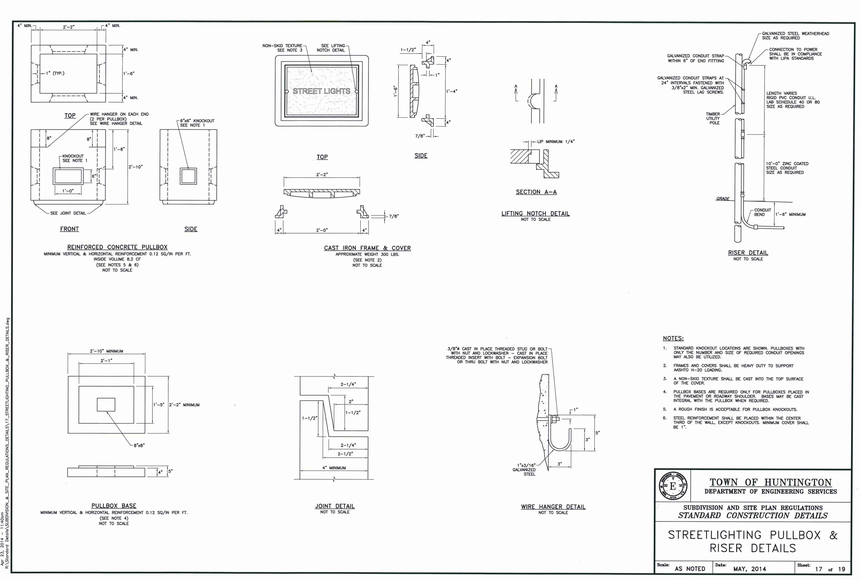

NOTES:

1. STANDARD KNOCKOUT LOCATIONS ARE SHOWN. PULLBOXES WITH ONLY THE NUMBER AND SIZE OF REQUIRED CONDUIT STUBOUTS MAY ALSO BE UTILIZED.
2. FRAMES AND COVERS SHALL BE HEAVY DUTY TO SUPPORT AASHTO H-20 LOADING.
3. A NON-SKID TEXTURE SHALL BE CAST INTO THE TOP SURFACE OF THE COVER.
4. PULLBOX BASES ARE REQUIRED ONLY FOR PULLBOXES PLACED IN THE PAVEMENT OR ROADWAY SHOULDER. BASES MAY BE CAST INTEGRAL WITH THE PULLBOX WHEN REQUIRED.
5. A ROUGH FINISH IS ACCEPTABLE FOR PULLBOX KNOCKOUTS.
6. STEEL REINFORCEMENT SHALL BE PLACED AT THE CENTER PLANE OF THE WALL, EXCEPT KNOCKOUTS. MINIMUM COVER SHALL BE 1".

TOWN OF HUNTINGTON
DEPARTMENT OF ENGINEERING SERVICES

SUBDIVISION AND SITE PLAN REGULATIONS
STANDARD CONSTRUCTION DETAILS

STREETLIGHTING PULLBOX & RISER DETAILS

Scale: AS NOTED | Date: MAY, 2014 | Sheet: 17 of 19

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EXISTING

P92.99	PAVEMENT ELEVATION	94	CONTOUR
TOS199	TOP OF CURB ELEVATION	E	ELECTRIC
BOS92.2	BOTTOM OF CURB ELEVATION	W	WATER
x(92.0)	SPOT ELEVATION	G	GAS
	ELECTRIC BOX	X	FENCE
	PULL BOX	S	SANITARY SEWER
	FIRE HYDRANT	T	TELEPHONE
	GAS VALVE	OHW	OVERHEAD WIRE
	WATER VALVE	D	DRAINAGE
	TRANSFORMER	CATV	TELEVISION
	ELECTRIC POLE		DRAINAGE MANHOLE
	LIGHT POLE		CATCH BASINS
	HIGH TENSION TOWER		TREE TO BE REMOVED
W.M.	WATER MAIN		
W.S.	WATER SERVICE		TREE TO REMAIN
G.M.	GAS MAIN		
			MONUMENT

PROPOSED

(TC92.00)	TOP OF CURB ELEVATION	(W)	WATER
(BC91.5)	BOTTOM OF CURB ELEVATION	(FS)	FIRE SERVICE
x(92.0)	SPOT ELEVATION	(WS)	WATER SERVICE
LP	LEACHING POOL	(E)	ELECTRIC
CB	CATCH BASIN	(G)	GAS
SMH	SANITARY MANHOLE	X	FENCE
DMH	DRAINAGE MANHOLE	(HC)	SANITARY HOUSE CONNECTION
(x92)	CONTOUR	(D)	DRAINAGE
	LEACHING POOL W/ OPEN GRATE	(RD)	ROOF DRAIN
	LEACHING POOL W/ SOLID COVER	(T)	TELEPHONE
	DRAINAGE BASIN	(CATV)	TELEVISION
	CATCH BASIN (TC – TOP OF CURB BOX)		CONCRETE WALK
	HYDRANT		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
PS	STREET TREE W / SYMBOL		SAWCUT W/ PAVEMENT TO BE REMOVED
			TEST HOLE
			DRAINAGE RIDGELINE
			PROPOSED MONUMENT

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.N.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY. 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

TEST BORING PLAN - NORTH PARCEL

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY: GEO	CADD No:86047 PM 2019.DWG	SCALE: 1"=100'	DRAWING NO.: TB - 101
CHECKED BY: JM	FILE NO.: 400-014		
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO. 39 OF 43

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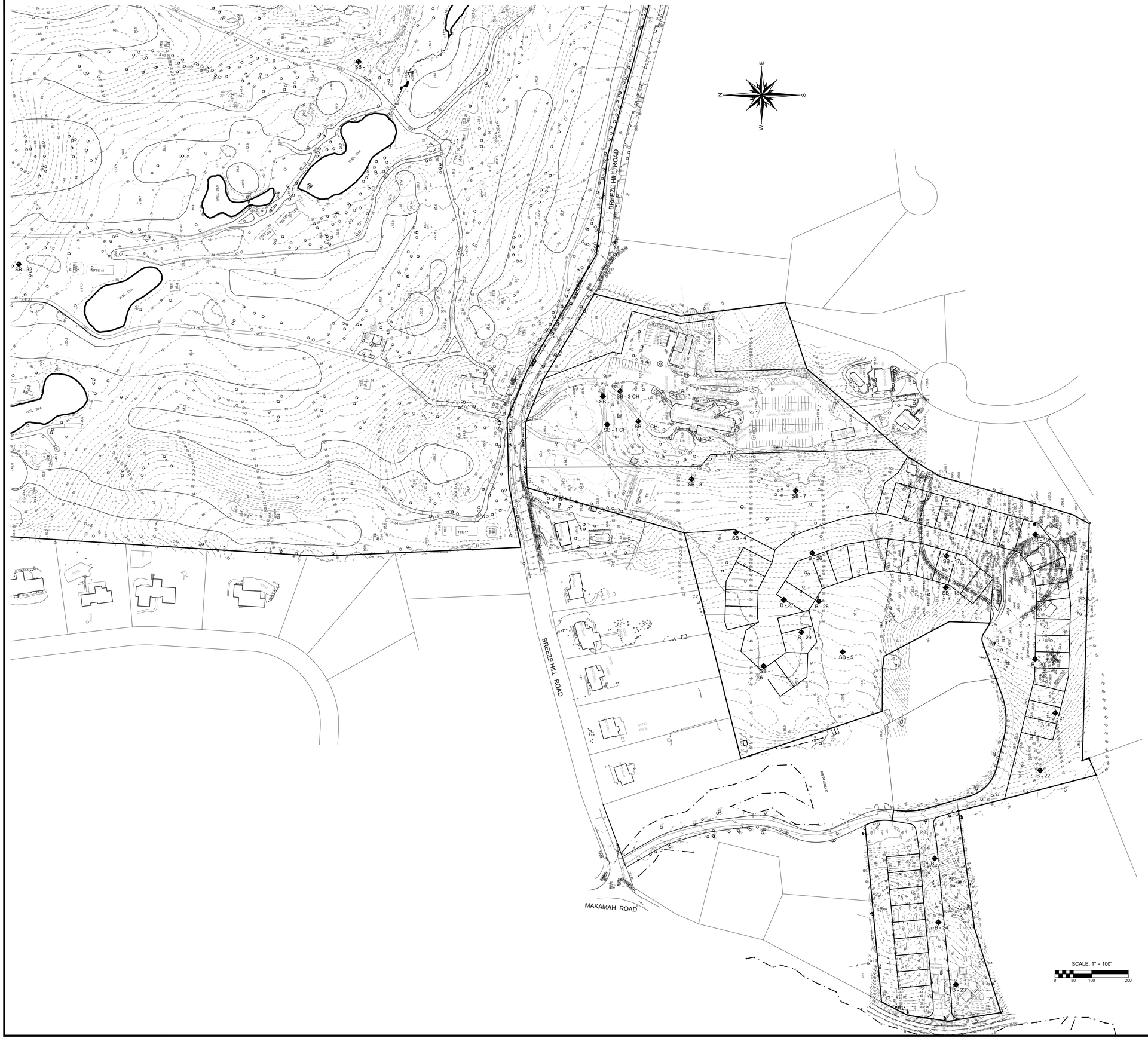

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

TEST BORING PLAN - SOUTH PARCEL

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

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PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY:	GEO	CADD No:86047 PM 2019.DWG	SCALE:	DRAWING NO.:	TB - 102
CHECKED BY:	JM	FILE NO.: 400-014	1"=100'	SHEET NO.: 40 OF 43	
DATE: DECEMBER, 2017		PROJECT NO.: 86047			

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East Coast Geoservices, LLC — SOIL BORING LOG (EC-1, Page 1 of 2)

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Page 1 of 2

BORING I.D.	PROJECT NO.	PROJECT NAME	
EC-1	East Coast Geoservices# 86047	Indian Hills Country Club	
LOGGED BY: Eric Arnesen	APPROVED BY: Eric Arnesen	LOCATION: Breeze Hill Road, Northport, New York	
DRILLING CONTRACTOR: East Coast Geoservices, LLC	DRILLER: Steve McGinn		
DRILL BIT DIAMETER/TYPE: 2.25 inch/Hollow Stem Auger	BOREHOLE DIAMETER: 4 inch	BORING LOCATION DESCRIPTION: Centrally located on fairway of the 6th Hole	
LAND SURFACE ELEVATION: ± 130 ft	COORDINATES: NA	DRILLING EQUIPMENT/METHOD: Power Probe 9600	SAMPLING METHOD: Split Spoon
DEPTH OF BORING: 75 feet	DEPTH TO WATER: 53-60 feet bgs (Perched)	START/FINISH DATE: 3/11/09 to 3/13/09	BACKFILL: Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5		No Sample Collected				Samples were collected at 5 foot intervals down to a depth of 20 feet after which samples were collected at 10 foot intervals until boring terminated.
10	5 to 7	All strong brown clayey silt.	ML	1-1-1-1 (1-1)	NA	0.6 feet recovered
15	10 to 12	All strong brown fine to medium sand, trace gravel.	SW	2-2-2-3 (2-2)	NA	1.1 feet recovered Sample submitted for sieve analysis.
20	15 to 17	Top 0.9 feet yellow fine sand. Bottom 0.4 feet reddish yellow clayey silt, traces of mica present.	SP SM	1-2-1-3 (2-1)	NA	1.3 feet recovered Sample submitted for seive analysis.
25	20 to 22	Top 1.2 feet very pale brown silt. Bottom 0.3 feet reddish yellow clayey silt, traces of mica present.	ML ML	2-6-7-11 (6-7)	NA	1.5 feet recovered
30	25 to 27	No sample collected				
35	30 to 32	Top 1.2 feet strong brown silty clay Bottom 0.6 feet reddish yellow silt.	CL ML	2-6-6-11 (6-6)	NA	1.8 feet recovered Bottom sample submitted for sieve analysis.
40	35 to 37	No sample collected				
45	40 to 42	Top 1.3 feet strong brown silt. Mid 0.5 feet strong brown silty clay. Bottom 0.5 feet strong brown silt.	ML CL ML	6-9-11-15 (9-11)	NA	2.0 feet recovered Sample collected for sieve analysis.
50	45 to 47	No sample collected.				

East Coast Geoservices, LLC — SOIL BORING LOG (EC-1, Page 2 of 2)

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BORING I.D.	PROJECT NO.	PROJECT NAME
EC-1	East Coast Geoservices# 86047	Indian Hills Country Club

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
50	50 to 52	All strong brown silt to clayey silt.	ML	9-12-16-20 (12-16)	NA	3.0 feet recovered.
55	55 to 57	No sample collected.				
60 / PW	60 to 62	All yellowish red silt. Wet Perched water estimated within 53-60 feet.	ML	5-8-6-NA (8-6)	NA	1.1 feet recovered. Last 6 inches of sample not collected due to equipment failure. Perched water encountered. Entire sample wet.
65						
70	70 to 72	Strong brown clay encountered at ~ 70 to 73 feet.			NA	Sample characterized and depth estimated based on cuttings left on lead auger. Split spoon sample not possible due to residual heave in augers. **Boring Complete**
75						**Notes:** bgs - below ground surface PW - Perched Water Blow counts represent the number of strikes required to drive a 2 foot split spoon sampler ever 6 inches.
80						
85						
90						
95						
100						
105						
110						

East Coast Geoservices, LLC — SOIL BORING LOG (EC-2, Page 1 of 2)

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BORING I.D.	PROJECT NO.	PROJECT NAME	
EC-2	East Coast Geoservices# 86047	Indian Hills Country Club	
LOGGED BY: Eric Arnesen	APPROVED BY: Eric Arnesen	LOCATION: Breeze Hill Road, Northport, New York	
DRILLING CONTRACTOR: East Coast Geoservices, LLC	DRILLER: Steve McGinn		
DRILL BIT DIAMETER/TYPE: 2.5 inch/Hollow Stem Auger	BOREHOLE DIAMETER: 4 inch	BORING LOCATION DESCRIPTION: Located 50 feet west of paved cart path on the north side of the 12th hole fairway.	
LAND SURFACE ELEVATION: ± 54 ft	COORDINATES: NA	DRILLING EQUIPMENT/METHOD: Power Probe 9600	SAMPLING METHOD: Split Spoon
DEPTH OF BORING: 62 feet	DEPTH TO WATER: 35 feet bgs (Perched)	START/FINISH DATE: 3/17/09 to 3/17/09	BACKFILL: Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5		No Sample Collected				Samples were collected at 5 foot intervals down to a depth of 40 feet after which samples were collected at 10 foot intervals until boring terminated.
10	5 to 7	All yellow to reddish yellow fine sand, trace silt, trace mica present.	SP	1-2-2-3 (2-2)	NA	1.5 feet recovered
15	10 to 12	All yellow to reddish yellow fine to medium sand, trace gravel.	SW	1-1-0-1 (1-0)	NA	1.0 feet recovered
20	15 to 17	All yellow fine to medium sand, trace gravel.	SW	1-2-2-2 (2-2)	NA	1.1 feet recovered Sample submitted for sieve analysis.
25	20 to 22	All yellowish brown silt.	ML	2-4-6-8 (4-6)	NA	1.0 feet recovered
30	25 to 27	Top 0.4 feet light yellowish brown sandy silt, trace Mid 0.7 feet brownish yellow fine sand, trace silt, trace gravel. Bottom 0.3 feet light yellowish brown silty sandy, trace gravel.	SM SP SM	3-5-4-5 (5-4)	NA	1.4 feet recovered
35	30 to 32	Top 0.5 feet yellowish brown to grayish brown silty sand. Bottom 1.2 feet grayish brown clayey silt.	SM ML	3-4-6-10 (4-6)	NA	1.7 feet recovered Sample submitted for sieve analysis.
PW / 40	35 to 37	All brownish yellow sandy silt, trace gravel. Wet	SM	5-7-8-10 (7-8)	NA	1.2 feet recovered Sample submitted for sieve analysis. Perched water encountered at 35 feet. Determined by measuring water on center rods.
45	40 to 42	All light brownish silty clay with 0.2 foot sandy clay lens at 41.5 feet.	CL	2-6-8-10 (6-8)	NA	1.6 feet recovered Sample collected for sieve analysis.
50	45 to 47	No sample collected.				

East Coast Geoservices, LLC — SOIL BORING LOG (EC-2, Page 2 of 2)

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BORING I.D.	PROJECT NO.	PROJECT NAME
EC-2	East Coast Geoservices# 86047	Indian Hills Country Club

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
50	50 to 52	All brown clay.	CL	3-5-10-14 (5-10)	NA	2.0 feet recovered.
55	55 to 57	No sample collected.				
60	60 to 62	All brown clay.	CL	2-6-11-17 (6-11)	NA	1.5 feet recovered. **Boring Complete**
65						**Notes:** bgs - below ground surface PW - Perched Water Blow counts represent the number of strikes required to drive a 2 foot split spoon sampler ever 6 inches.
70						
75						
80						
85						
90						
95						
100						
105						
110						

East Coast Geoservices, LLC — SOIL BORING LOG (SB-1, Page 1 of 1)

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BORING I.D.	PROJECT NO.	PROJECT NAME	
SB-1	ECG# 86047	Indian Hills Country Club	
LOGGED BY: Eric Arnesen	APPROVED BY: Eric Arnesen	LOCATION: Breeze Hill Road, Northport, New York	
DRILLING CONTRACTOR: East Coast Geoservices, LLC	DRILLER: Steve McGinn		
DRILL BIT DIAMETER/TYPE: 2.0 inch core barrel/2.5 inch HAS	BOREHOLE DIAMETER: 4 inch	BORING LOCATION DESCRIPTION: Northwest corner of the property in the temporary storage area	
LAND SURFACE ELEVATION: NA	COORDINATES: NA	DRILLING EQUIPMENT/METHOD: Power Probe 9600	SAMPLING METHOD: Split Spoon
DEPTH OF BORING: 32 feet	DEPTH TO WATER: ~4 feet bgs (Perched)	START/FINISH DATE:	BACKFILL: Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
	0 to 2	All light brown silt, trace gravel.	ML	NA	NA	1.0 feet recovered
	2 to 4	All light brown fine sand.	SP	NA	NA	1.0 feet recovered
5	4 to 6	All brown fine sand. Wet	SP	NA	NA	2.0 feet recovered
	6 to 8	Top 1.0 feet same as above. Bottom 1.0 feet reddish brown clay.	SP CL	NA	NA	DTW @ ~ 4 feet bgs (perched) 2.0 feet recovered
10	8 to 10	All reddish brown clay.	CL	NA	NA	2.0 feet recovered
15	10 to 12	All same as above.	CL	NA	NA	1.0 feet recovered
20	15 to 17	All same as above.	CL	NA	NA	2.0 feet recovered
25	20 to 22	All same as above.	CL	NA	NA	1.5 feet recovered
30	25 to 27	All same as above.	CL	NA	NA	2.0 feet recovered
35	30 to 32	All same as above.	CL	NA	NA	1.5 feet recovered Boring Complete
40						
45						
50						

East Coast Geoservices, LLC — SOIL BORING LOG (SB-2, Page 1 of 1)

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BORING I.D.	PROJECT NO.	PROJECT NAME	
SB-2	ECG# 86047	Indian Hills Country Club	
LOGGED BY: Eric Arnesen	APPROVED BY: Eric Arnesen	LOCATION: Breeze Hill Road, Northport, New York	
DRILLING CONTRACTOR: East Coast Geoservices, LLC	DRILLER: Steve McGinn		
DRILL BIT DIAMETER/TYPE: 2.0 inch core barrel/2.5 inch HAS	BOREHOLE DIAMETER: 2 inch/4 inch	BORING LOCATION DESCRIPTION: East side of the wooded located in the northwest corner of the property	
LAND SURFACE ELEVATION: NA	COORDINATES: NA	DRILLING EQUIPMENT/METHOD: Power Probe 9600	SAMPLING METHOD: Core Barrel/Split Spoon
DEPTH OF BORING: 32 feet	DEPTH TO WATER: Not Encountered	START/FINISH DATE:	BACKFILL: Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5	0 to 5	Top 3.0 feet grayish brown silt. Bottom 1.0 feet grayish brown to reddish brown silty sand, trace gravel.	ML SM	NA	NA	4.0 feet recovered
10	5 to 10	All light brown fine sand, trace gravel.	SP	NA	NA	2.0 feet recovered
15	10 to 12	All same as above.	SP	NA	NA	1.0 feet recovered
20	15 to 17	All reddish brown clay.	CL	NA	NA	2.0 feet recovered
25	20 to 22	All same as above.	CL	NA	NA	1.5 feet recovered
30	25 to 27	All reddish brown clayey silt	SC	NA	NA	2.0 feet recovered
35	30 to 32	All same as above.	SC	NA	NA	1.5 feet recovered Boring Complete
40						
45						
50						

East Coast Geoservices, LLC — SOIL BORING LOG (SB-3, Page 1 of 1)

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BORING I.D.	PROJECT NO.	PROJECT NAME	
SB-3	ECG# 86047	Indian Hills Country Club	
LOGGED BY: Eric Arnesen	APPROVED BY: Eric Arnesen	LOCATION: Breeze Hill Road, Northport, New York	
DRILLING CONTRACTOR: East Coast Geoservices, LLC	DRILLER: Steve McGinn		
DRILL BIT DIAMETER/TYPE: 2.0 inch core barrel/2.5 inch HAS	BOREHOLE DIAMETER: 4 inch	BORING LOCATION DESCRIPTION: Southwest portion of the Maintenance Yard area	
LAND SURFACE ELEVATION: NA	COORDINATES: NA	DRILLING EQUIPMENT/METHOD: Power Probe 9600	SAMPLING METHOD: Split Spoon
DEPTH OF BORING: 32 feet	DEPTH TO WATER: Not Encountered	START/FINISH DATE:	BACKFILL: Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
	0 to 2	All light brown silt.	ML	NA	NA	1.0 feet recovered
	2 to 4	All light brown silt, trace gravel.	ML	NA	NA	1.0 feet recovered
5	4 to 6	Top 1.0 feet reddish brown silty sand, trace gravel. Bottom 0.5 feet gray silt.	SM ML	NA	NA	1.5 feet recovered
10						
15	10 to 12	Top 1.0 feet reddish brown silty clay. Bottom 1.0 feet reddish brown silty sand.	CL SM	NA	NA	1.0 feet recovered
20	15 to 17	All reddish brown silty sand, trace gravel.	SM	NA	NA	2.0 feet recovered
25	20 to 22	All white fine sand, trace gravel.	SP	NA	NA	1.5 feet recovered
30	25 to 27	All same as above.	CL	NA	NA	2.0 feet recovered
35	30 to 32	Top 1.0 feet reddish brown fine sand. Bottom 1.0 feet reddish brown silty clay.	SP CL	NA	NA	1.5 feet recovered Boring Complete
40						
45						
50						

East Coast Geoservices, LLC — SOIL BORING LOG (SB-4, Page 1 of 1)

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BORING I.D.	PROJECT NO.	PROJECT NAME	
SB-4	ECG# 86047	Indian Hills Country Club	
LOGGED BY: Eric Arnesen	APPROVED BY: Eric Arnesen	LOCATION: Breeze Hill Road, Northport, New York	
DRILLING CONTRACTOR: East Coast Geoservices, LLC	DRILLER: Steve McGinn		
DRILL BIT DIAMETER/TYPE: 2.0 inch core barrel/2.5 inch HAS	BOREHOLE DIAMETER: 2 inch	BORING LOCATION DESCRIPTION: West central portion of the driving range	
LAND SURFACE ELEVATION: NA	COORDINATES: NA	DRILLING EQUIPMENT/METHOD: Power Probe 9600	SAMPLING METHOD: Core Barrel
DEPTH OF BORING: 32 feet	DEPTH TO WATER: Not Encountered	START/FINISH DATE:	BACKFILL: Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5	0 to 5	Top 2.0 feet reddish brown silty sand, trace gravel. Bottom 2.0 feet reddish brown sandy clay, trace gravel.	SM SC	NA	NA	4.0 feet recovered
10	5 to 10	All reddish brown sandy clay, trace gravel.	SC	NA	NA	2.0 feet recovered
15	10 to 15	Top 1.5 feet reddish brown fine sand, trace gravel. Bottom 2.5 feet yellowish brown fine sand.	SP SP	NA	NA	4.0 feet recovered
20	15 to 20	All same as above.	SP	NA	NA	4.0 feet recovered
25	20 to 25	All same as above.	SP	NA	NA	4.0 feet recovered
30	25 to 30	All same as above.	SP	NA	NA	3.0 feet recovered Boring Complete
35						
40						
45						
50						

East Coast Geoservices, LLC — SOIL BORING LOG (SB-5, Page 1 of 1)

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BORING I.D.	PROJECT NO.	PROJECT NAME	
SB-5	ECG# 86047	Indian Hills Country Club	
LOGGED BY: Eric Arnesen	APPROVED BY: Eric Arnesen	LOCATION: Breeze Hill Road, Northport, New York	
DRILLING CONTRACTOR: East Coast Geoservices, LLC	DRILLER: Steve McGinn		
DRILL BIT DIAMETER/TYPE: 2.0 inch core barrel/2.5 inch HAS	BOREHOLE DIAMETER: 2 inch	BORING LOCATION DESCRIPTION: Southwest corner of the driving range	
LAND SURFACE ELEVATION: NA	COORDINATES: NA	DRILLING EQUIPMENT/METHOD: Power Probe 9600	SAMPLING METHOD: Core Barrel
DEPTH OF BORING: 32 feet	DEPTH TO WATER: Not Encountered	START/FINISH DATE:	BACKFILL: Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5	0 to 5	All brown clayey silt to silty clay.	SC	NA	NA	2.5 feet recovered
10	5 to 10	Top 1.0 feet reddish brown fine sand, trace gravel.	SP	NA	NA	5.0 feet recovered
15	10 to 15	All reddish brown clay.	CL	NA	NA	3.0 feet recovered
20	15 to 20	All same as above.	CL	NA	NA	4.0 feet recovered
25	20 to 25	All same as above.	CL	NA	NA	4.0 feet recovered
30	25 to 30	All same as above.	CL	NA	NA	3.0 feet recovered Boring Complete
35						
40						
45						
50						

East Coast Geoservices, LLC — SOIL BORING LOG (SB-6, Page 1 of 1)

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BORING I.D.	PROJECT NO.	PROJECT NAME	
SB-6	ECG# 86047	Indian Hills Country Club	
LOGGED BY: Eric Arnesen	APPROVED BY: Eric Arnesen	LOCATION: Breeze Hill Road, Northport, New York	
DRILLING CONTRACTOR: East Coast Geoservices, LLC	DRILLER: Jonathan McGinn		
DRILL BIT DIAMETER/TYPE: 2.0 inch core barrel/2.5 inch HAS	BOREHOLE DIAMETER: 2 inch	BORING LOCATION DESCRIPTION: Southwest corner of the driving range north of SB-5	
LAND SURFACE ELEVATION: NA	COORDINATES: NA	DRILLING EQUIPMENT/METHOD: Power Probe 9600	SAMPLING METHOD: Core Barrel
DEPTH OF BORING: 30 feet	DEPTH TO WATER: Not Encountered	START/FINISH DATE:	BACKFILL: Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5	0 to 5	Top 05 feet brown silty loam (Top Soil). Mid 0.5 feet reddish brown silty clay. Mid 1.5 feet reddish brown silty sand, trace gravel. Bottom 0.5 feet reddish brown silt.	ML CL SM ML	NA	NA	3.0 feet recovered
10	5 to 10	Top 1.5 feet reddish brown silty clay. Mid 1.0 feet reddish brown silty sand, trace gravel. Bottom 1.5 feet reddish brown silt.	CL SM Ml	NA	NA	4.0 feet recovered
15	10 to 15	Top 1.0 feet reddish brown silty sand, trace gravel. Bottom 3.0 feet reddish brown silty clay.	SM CL	NA	NA	4.0 feet recovered
20	15 to 20	All reddish brown silty clay.	CL	NA	NA	4.5 feet recovered
25	20 to 25	All same as above.	CL	NA	NA	5.0 feet recovered
30	25 to 30	All same as above.	CL	NA	NA	5.0 feet recovered Boring Complete
35						
40						
45						
50						

East Coast Geoservices, LLC — SOIL BORING LOG (SB-7, Page 1 of 1)

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BORING I.D.	PROJECT NO.	PROJECT NAME	
SB-7	ECG# 86047	Indian Hills Country Club	
LOGGED BY: Eric Arnesen	APPROVED BY: Eric Arnesen	LOCATION: Breeze Hill Road, Northport, New York	
DRILLING CONTRACTOR: East Coast Geoservices, LLC	DRILLER: Jonathan McGinn		
DRILL BIT DIAMETER/TYPE: 2.0 inch core barrel	BOREHOLE DIAMETER: 2 inch	BORING LOCATION DESCRIPTION: Southeast corner of the driving range	
LAND SURFACE ELEVATION: NA	COORDINATES: NA	DRILLING EQUIPMENT/METHOD: Power Probe 9600	SAMPLING METHOD: Core Barrel
DEPTH OF BORING: 30 feet	DEPTH TO WATER: Not Encountered	START/FINISH DATE:	BACKFILL: Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5	0 to 5	Top 1.0 feet brown silty loam (Top Soil). Bottom 1.0 feet reddish brown silty sand, trace gravel.	ML SM	NA	NA	2.0 feet recovered
10	5 to 10	All pale brown fine sand, trace gravel.	SP	NA	NA	4.5 feet recovered
15	10 to 15	All same as above.	SP	NA	NA	4.5 feet recovered
20	15 to 20	All same as above.	SP	NA	NA	4.0 feet recovered
25	20 to 25	No recovery.	SP	NA	NA	No recovery
30	25 to 30	All same as above.	SP	NA	NA	3.0 feet recovered Boring Complete
35						
40						
45						
50						

East Coast Geoservices, LLC — SOIL BORING LOG (SB-8, Page 1 of 1)

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BORING I.D.	PROJECT NO.	PROJECT NAME	
SB-8	ECG# 86047	Indian Hills Country Club	
LOGGED BY: Eric Arnesen	APPROVED BY: Eric Arnesen	LOCATION: Breeze Hill Road, Northport, New York	
DRILLING CONTRACTOR: East Coast Geoservices, LLC	DRILLER: Jonathan McGinn		
DRILL BIT DIAMETER/TYPE: 2.0 inch core barrel	BOREHOLE DIAMETER: 2 inch	BORING LOCATION DESCRIPTION: Northeast corner of the driving range	
LAND SURFACE ELEVATION: NA	COORDINATES: NA	DRILLING EQUIPMENT/METHOD: Power Probe 9600	SAMPLING METHOD: Core Barrel
DEPTH OF BORING: 30 feet	DEPTH TO WATER: Not Encountered	START/FINISH DATE:	BACKFILL: Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5	0 to 5	Top 0.5 feet brown silty loam (Top Soil). Bottom 3.5 feet pale brown silty sand, trace gravel.	ML SM	NA	NA	4.0 feet recovered
10	5 to 10	Top 0.5 feet pale brown silty sand, trace gravel. Mid 0.5 feet pale brown clayey silt. Bottom 3.5 feet reddish brown silty to clay sand, trace gravel.	SM SC SC-SM	NA	NA	4.5 feet recovered
15	10 to 15	All reddish brown silty to clayey sand, trace gravel.	SC-SM	NA	NA	4.5 feet recovered
20	15 to 20	All reddish brown silty sand, trace gravel.	SM	NA	NA	4.0 feet recovered
25	20 to 25	Top 1.0 feet reddish brown silty sand, trace gravel. Bottom 1.0 feet pale brown fine sand, trace gravel.	SM SP	NA	NA	2.0 feet recovered
30	25 to 30	No recovery		NA	NA	No recovery Boring Complete
35						
40						
45						
50						

East Coast Geoservices, LLC — SOIL BORING LOG (SB-9, Page 1 of 1)

East Coast Geoservices, LLC
P.O. Box 2806
Huntington Station, New York 11746
Phone: (631) 513-8595
www.info@eastcoastgeoservices.com

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BORING I.D.	PROJECT NO.	PROJECT NAME	
SB-9	ECG# 86047	Indian Hills Country Club	
LOGGED BY: Eric Arnesen	APPROVED BY: Eric Arnesen	LOCATION: Breeze Hill Road, Northport, New York	
DRILLING CONTRACTOR: East Coast Geoservices, LLC	DRILLER: Jonathan McGinn		
DRILL BIT DIAMETER/TYPE: 2.0 inch core barrel	BOREHOLE DIAMETER: 2 inch	BORING LOCATION DESCRIPTION: West of clubhouse enterance	
LAND SURFACE ELEVATION: NA	COORDINATES: NA	DRILLING EQUIPMENT/METHOD: Power Probe 9600	SAMPLING METHOD: Core Barrel
DEPTH OF BORING: 30 feet	DEPTH TO WATER: Not Encountered	START/FINISH DATE:	BACKFILL: Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5	0 to 5	Top 0.5 feet brown silty loam (Top Soil). Bottom 3.5 feet pale brown silty sand, trace gravel.	ML SM	NA	NA	4.0 feet recovered
10	5 to 10	Top 1.5 feet pale brown silty sand, trace gravel. Bottom 2.5 feet pale brown fine sand, trace gravel.	SM SP	NA	NA	4.0 feet recovered
15	10 to 15	Top 2.0 feet brown silty to clayey sand, trace gravel. Mid 0.8 feet pale brown silt. Bottom 1.2 feet brown clayey silt.	SC-SM ML SC-SM	NA	NA	4.0 feet recovered
20	15 to 20	Top 0.5 feet reddish brown silty sand. Bottom 3.5 feet white fine sand.	SM SP	NA	NA	4.0 feet recovered
25	20 to 25	No recovery.		NA	NA	No recovery
30	25 to 30	Top 0.8 feet brown fine sand. Mid 1.0 feet brown silty sand. Mid 1.0 feet white fine sand. Bottom 0.7 feet pale brown silty sand, trace gravel.	SP SM SP SM	NA	NA	3.5 feet recovered Boring Complete
35						
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East Coast Geoservices, LLC — SOIL BORING LOG (SB-10, Page 1 of 1)

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BORING I.D.	PROJECT NO.	PROJECT NAME	
SB-10	ECG# 86047	Indian Hills Country Club	
LOGGED BY: Eric Arnesen	APPROVED BY: Eric Arnesen	LOCATION: Breeze Hill Road, Northport, New York	
DRILLING CONTRACTOR: East Coast Geoservices, LLC	DRILLER: Jonathan McGinn		
DRILL BIT DIAMETER/TYPE: 2.0 inch core barrel	BOREHOLE DIAMETER: 2 inch	BORING LOCATION DESCRIPTION: Located in southeastern portion of property.	
LAND SURFACE ELEVATION: NA	COORDINATES: NA	DRILLING EQUIPMENT/METHOD: Power Probe 9600	SAMPLING METHOD: Core Barrel
DEPTH OF BORING: 20 feet	DEPTH TO WATER: Not Encountered	START/FINISH DATE:	BACKFILL: Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5	0 to 5	All reddish brown sandy silt.	SM	NA	NA	4.0 feet recovered
10	5 to 10	All same as above.	CL	NA	NA	4.0 feet recovered
15	10 to 15	Top 2.0 feet reddish brown silty sand. Bottom 2.0 feet reddish brown silty clay.	SM CL	NA	NA	4.0 feet recovered
20	15 to 20	Top 2.0 feet reddish brown silty clay. Bottom 2.0 feet reddish brown fine sand.	CL SP	NA	NA	4.0 feet recovered Boring Complete
25						
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East Coast Geoservices, LLC — SOIL BORING LOG (SB-11, Page 1 of 1)

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BORING I.D.	PROJECT NO.	PROJECT NAME	
SB-11	ECG# 86047	Indian Hills Country Club	
LOGGED BY: Eric Arnesen	APPROVED BY: Eric Arnesen	LOCATION: Breeze Hill Road, Northport, New York	
DRILLING CONTRACTOR: East Coast Geoservices, LLC	DRILLER: Jonathan McGinn		
DRILL BIT DIAMETER/TYPE: 2.0 inch core barrel	BOREHOLE DIAMETER: 2 inch	BORING LOCATION DESCRIPTION: Between holes 4 & 8	
LAND SURFACE ELEVATION: NA	COORDINATES: NA	DRILLING EQUIPMENT/METHOD: Power Probe 9600	SAMPLING METHOD: Core Barrel
DEPTH OF BORING: 30 feet	DEPTH TO WATER: DTW @ ~20 feet bgs	START/FINISH DATE:	BACKFILL: Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5	0 to 5	Top 0.5 feet brown silty loam (Top Soil). Bottom 2.0 feet brown silty sand, trace gravel.	ML SM	NA	NA	2.5 feet recovered
10	5 to 10	No recovery.		NA	NA	No recovery
15	10 to 15	Top 2.0 feet brown sand, trace gravel. Mid 1.0 feet brown silty clay. Bottom 1.2 feet brown sand.	SC-SM ML SC-SM	NA	NA	4.0 feet recovered
20	15 to 20	No recovery.		NA	NA	No recovery
25	20 to 25	All brown silty clay. Wet	SC	NA	NA	3.0 feet recovered Water at ~20 feet
30	25 to 30	Top 2.0 feet brown silty clay. Mid 1.0 feet brown silty sand. Bottom 2.0 feet brown silty clay.	SC SM SP	NA	NA	5.0 feet recovered Boring Complete
35						
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East Coast Geoservices, LLC — SOIL BORING LOG (SB-12, Page 1 of 1)

East Coast Geoservices, LLC
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BORING I.D.	PROJECT NO.	PROJECT NAME	
SB-12	ECG# 86047	Indian Hills Country Club	
LOGGED BY: Eric Arnesen	APPROVED BY: Eric Arnesen	LOCATION: Breeze Hill Road, Northport, New York	
DRILLING CONTRACTOR: East Coast Geoservices, LLC	DRILLER: Jonathan McGinn		
DRILL BIT DIAMETER/TYPE: 2.0 inch core barrel	BOREHOLE DIAMETER: 2 inch	BORING LOCATION DESCRIPTION: Between Holes 3 & 4	
LAND SURFACE ELEVATION: NA	COORDINATES: NA	DRILLING EQUIPMENT/METHOD: Power Probe 9600	SAMPLING METHOD: Core Barrel
DEPTH OF BORING: 30 feet	DEPTH TO WATER: DTW @ ~25 feet	START/FINISH DATE:	BACKFILL: Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5	0 to 5	Top 0.5 feet brown silty loam (Top Soil). Bottom 2.0 feet reddish brown silty clay.	ML SM	NA	NA	2.5 feet recovered
10	5 to 10	All reddish brown silty clay to silty sand.	SC-SM	NA	NA	3.0 feet recovered
15	10 to 15	All same as above.	SC-SM	NA	NA	4.0 feet recovered
20	15 to 20	All reddish brown fine sand, trace gravel.	SP	NA	NA	3.0 feet recovered
25	20 to 25	All brown silty sand, trace gravel.	SM	NA	NA	3.0 feet recovered
30	25 to 30	All brown fine sand, trace gravel. Wet	SP	NA	NA	5.0 feet recovered DTW @ ~25 feet Boring Complete
35						
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FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

TEST BORING LOGS - 1
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY: GEO	CADD No86047 PM 2019.DWG	SCALE:	DRAWING NO.:
CHECKED BY: JM	FILE NO.: 400-014	NONE	TB - 103
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 41 OF 43

-

G:\projects\86047\2019\86047 PM 2019.dwg, TEST HOLE LOGS, 7/1/2019 3:38:33 PM, DWG To PDF.pc3

East Coast Geoservices, LLC
P.O. Box 2806
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SOIL BORING LOG

Page 1 of 1

BORING I.D.	PROJECT NO.	PROJECT NAME
18-13	ECG# 86047	Indian Hills Country Club
LOGGED BY	APPROVED BY	LOCATION
Eric Arnesen	Eric Arnesen	Breeze Hill Road, Northport, New York
DRILLING CONTRACTOR	DRILLER	
East Coast Geoservices, LLC	Jonathan McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch core barrel	2 inch	
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9600
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
30 feet	Not Encountered	

SAMPLING METHOD
Core Barrel
BACKFILL
Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	Top 0.5 feet brown silty loam (Top Soil). Bottom 2.0 feet reddish brown silty clay.	ML SM	NA	NA	2.5 feet recovered
5	5 to 10	Top 1.5 feet reddish brown silty sand. Bottom 2.5 feet gray clay.	SM CL	NA	NA	4.0 feet recovered
10	10 to 15	Top 2.5 feet brown silty clay. Bottom 1.5 feet brown silty sand.	CL SM	NA	NA	4.0 feet recovered
15	15 to 20	All white fine sand, trace gravel.	SP	NA	NA	5.0 feet recovered
20	20 to 25	All brown fine sand.	SP	NA	NA	5.0 feet recovered
25	25 to 30	All brown fine sand, trace silt, trace gravel.	SP	NA	NA	5.0 feet recovered grow @ ~25 feet Boring Complete
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SOIL BORING LOG

Page 1 of 1

BORING I.D.	PROJECT NO.	PROJECT NAME
18-14	ECG# 86047	Indian Hills Country Club
LOGGED BY	APPROVED BY	LOCATION
Eric Arnesen	Eric Arnesen	Breeze Hill Road, Northport; New York
DRILLING CONTRACTOR	DRILLER	
East Coast Geoservices, LLC	Jonathan McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch core barrel	2 inch	Northern end of the site south of 18-13
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9600
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
30 feet	Not Encountered	

SAMPLING METHOD
Core Barrel
BACKFILL
Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	All reddish brown silty sand.	SM	NA	NA	5.0 feet recovered
5	5 to 10	Top 1.5 feet reddish brown silt; Bottom 1.5 feet reddish brown clay;	ML CL	NA	NA	6.0 feet recovered
10	10 to 15	All reddish brown clay.	CL	NA	NA	4.0 feet recovered
15	15 to 20	All same as above.	CL	NA	NA	5.0 feet recovered
20	20 to 25	All same as above.	CL	NA	NA	5.0 feet recovered
25	25 to 30	All same as above.	CL	NA	NA	5.0 feet recovered Boring Complete
30						
35						
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45						
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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
18-15	ECG# 86047	Indian Hills Country Club
LOGGED BY	APPROVED BY	LOCATION
Eric Arnesen	Eric Arnesen	Breeze Hill Road, Northport; New York
DRILLING CONTRACTOR	DRILLER	
East Coast Geoservices, LLC	Jonathan McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch core barrel	2 inch	Northern end of the site south of 18-14
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9600
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
20 feet	7 feet bgs (Perched)	

SAMPLING METHOD
Core Barrel
BACKFILL
Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	All reddish brown silty sand.	SM	NA	NA	3.5 feet recovered
5	5 to 10	All reddish brown silty sand.	SM CL	NA	NA	3.0 feet recovered Water encountered at 7 feet. Perched
10	10 to 15	All reddish brown silty clay, trace sand.	CL	NA	NA	4.0 feet recovered
15	15 to 20	All reddish brown fine sand and gravel.	SW	NA	NA	5.0 feet recovered Boring Complete
20						
25						
30						
35						
40						
45						
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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-17	ECG# 86047	Indian Hills Country Club
LOGGED BY	APPROVED BY	LOCATION
Eric Arnesen	Eric Arnesen	Breeze Hill Road, Northport, New York
DRILLING CONTRACTOR	DRILLER	
East Coast Geoservices, LLC	Jonathan McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch core barrel	2 inch	
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9600
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
50 feet	Not Encountered	

SAMPLING METHOD
Core Barrel
BACKFILL
Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	All reddish brown silt.	ML	NA	NA	3.5 feet recovered
5	5 to 10	All reddish brown silty sand and gravel.	SM	NA	NA	5.0 feet recovered
10	10 to 15	All reddish brown silty clay.	CL	NA	NA	4.0 feet recovered
15	15 to 20	All same as above.	CL	NA	NA	4.0 feet recovered
20	20 to 25	All reddish brown clay.	CL	NA	NA	4.5 feet recovered
25	25 to 30	All same as above.	CL	NA	NA	5.0 feet recovered. Boring Complete
30						
35						
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45						
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SOIL BORING LOG

Page 1 of 1

BORING I.D.	PROJECT NO.	PROJECT NAME
B-18	ECG# 86047	Indian Hills Country Club
LOGGED BY	APPROVED BY	LOCATION
Eric Arnesen	Eric Arnesen	Breeze Hill Road, Northport, New York
DRILLING CONTRACTOR	DRILLER	
East Coast Geoservices, LLC	Jonathan McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch core barrel	2 inch	Located in far southern end of site, west of 18-17
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9600
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
50 feet	Not Encountered	

SAMPLING METHOD
Core Barrel
BACKFILL
Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	All reddish brown silt, trace sand.	CL	NA	NA	3.5 feet recovered
5	5 to 10	Top 3.0 feet pale brown silty sand. Bottom 2.0 feet reddish brown fine sand;	SM SP	NA	NA	5.0 feet recovered
10	10 to 15	All reddish brown fine sand.	SP	NA	NA	4.0 feet recovered
15	15 to 20	All same as above.	SM	NA	NA	4.0 feet recovered
20	20 to 25	All reddish brown silty sand.	SM	NA	NA	4.0 feet recovered
25	25 to 30	All pale brown fine sand, trace gravel.	SP	NA	NA	5.0 feet recovered. Boring Complete
30						
35						
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45						
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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-19	86047	Indian Hills Country Club
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	2 Breeze Hill Road
DRILLING CONTRACTOR	DRILLER	Northport, New York
East Coast Geoservices, LLC	Jonathan J. McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch/Core Barrel	2.0 inches	Located in front yard
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9600
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
50 feet	N/A	04/12/17 to 04/12/17

SAMPLING METHOD
Core Barrel
BACKFILL
Mason Sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0-5	Top 1.0' dark brown silty loam. Bottom 2.5' brown silty sand.	ML SM	NA	NA	3.5 ft recovered
5	5-10	Top 1.0' brown silty sand. Bottom 3.0' tan sand.	SM SP	NA	NA	4.0 ft recovered
10	10-15	All tan fine sand.	SP	NA	NA	4.0 ft recovered
15	15-20	All same as above.	SP	NA	NA	3.0 ft recovered
20	20-25	All same as above.	SP	NA	NA	3.5 ft recovered
25	25-30	All same as above.	SP	NA	NA	3.0 ft recovered Boring Complete
30						
28						
32						
36						
40						
44						
48						

SOIL BORING LOG

Page 1 of 1

BORING I.D.	PROJECT NO.	PROJECT NAME
B-20	86047	Indian Hills Country Club
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	2 Breeze Hill Road
DRILLING CONTRACTOR	DRILLER	Northport, New York
East Coast Geoservices, LLC	Jonathan J. McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch/Core Barrel	2.0 inches	Located in front yard
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9600
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
30 feet	N/A	04/12/17 to 04/12/17

SAMPLING METHOD
Core Barrel
BACKFILL
Mason Sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0-5	Top 0.5' dark brown silty loam Mid 0.5' brown silty sand. Bottom 3.0' brown tan fine sand.	ML SM SP	NA	NA	4.0 ft recovered
5	5-10	All brown fine sand.	SP	NA	NA	3.0 ft recovered
10	10-15	All tan fine sand.	SP	NA	NA	4.0 ft recovered
15	15-20	All same as above.	SP	NA	NA	3.0 ft recovered
20	20-25	All same as above.	SP	NA	NA	3.5 ft recovered
25	25-30	All same as above.	SP	NA	NA	4.0 ft recovered Boring Complete
30						
28						
32						
36						
40						
44						
48						

SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-21	86047	Indian Hills Country Club
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	2 Breeze Hill Road
DRILLING CONTRACTOR	DRILLER	Northport, New York
East Coast Geoservices, LLC	Jonathan J. McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch/Core Barrel	2.0 inches	Located in side yard
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9600
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
30 feet	N/A	04/12/17 to 04/12/17

SAMPLING METHOD
Core Barrel
BACKFILL
Mason Sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0-5	Top 0.5' dark brown silty loam Bottom 2.0' brown silty sand..	ML SM	NA	NA	2.5 ft recovered
5	5-10	Top 1.0' brown silty sand. Bottom 2.0' brown fine sand..	SM SP	NA	NA	3.0 ft recovered
10	10-15	All tan fine sand.	SP	NA	NA	3.0 ft recovered
15	15-20	All same as above.	SP	NA	NA	3.0 ft recovered
20	20-25	All same as above.	SP	NA	NA	3.5 ft recovered
25	25-30	All same as above.	SP	NA	NA	4.0 ft recovered Boring Complete
30						
28						
32						
36						
40						
44						
48						

SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-22	86047	Indian Hills Country Club
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	2 Breeze Hill Road
DRILLING CONTRACTOR	DRILLER	Northport, New York
East Coast Geoservices, LLC	Jonathan J. McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch/Core Barrel	2.0 inches	Located in back yard
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9600
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
30 feet	N/A	04/12/17 to 04/12/17

SAMPLING METHOD
Core Barrel
BACKFILL
Mason Sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0-5	Top 0.5' topsoil. Bottom 3.5' brown silty sand.	ML SM	NA	NA	4.0 ft recovered
5	5-10	All brown silty sand, trace clay.	SM	NA	NA	3.0 ft recovered
10	10-15	All same as above.	SM	NA	NA	3.5 ft recovered
15	15-20	All same as above.	SM	NA	NA	3.0 ft recovered
20	20-25	Top 3' same as above. Bottom 1' beige fine sand.	SM SP	NA	NA	4.0 ft recovered
25	25-30	All beige fine sand, trace silt.	SP	NA	NA	5.0 ft recovered Boring Complete
30						
28						
32						
36						
40						
44						
48						

SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-23	86047	40-42 Makamah Road, Fort Salonga - Soil Borings
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	40-42 Makamah Road
DRILLING CONTRACTOR	DRILLER	Fort Salonga, New York
East Coast Geoservices, LLC	Jonathan McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch/Core Barrel	2.0 inches	Located on the western portion of the 40-42 Makamah Road property
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9600
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
30 feet	>19 feet bgs	4/6/2018

SAMPLING METHOD
Plastic Sleeve
BACKFILL
Mason sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	Top 1.0' Black silty loam (Top Soil). Bottom 2.0' dark brown silty sand.	ML SM	NA	NA	3.0 feet recovered
5	5 to 10	Top 3.0 feet dark brown silty sand. Bottom 3.0 fine tan sand	SM SP	NA	NA	6.0 feet recovered
10	10 to 15	Tan fine sand	SP	NA	NA	5.0 feet recovered
15	15 to 20	Same as above	SP	NA	NA	5.0 feet recovered Water @ ~19 feet Boring completed.
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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-24	86047	40-42 Makamah Road, Fort Salonga - Soil Borings
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	40-42 Makamah Road
DRILLING CONTRACTOR	DRILLER	Fort Salonga, New York
East Coast Geoservices, LLC	Jonathan McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch/Core Barrel	2.0 inches	Located on the central portion of the 40-42 Makamah Road property
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9600
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
30 feet	NA	4/6/2018

SAMPLING METHOD
Plastic Sleeve
BACKFILL
Mason sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	Top 0.25' Black silty loam (Top Soil). Middle 2.5' dark brown silty sand. Bottom 0.25' fine tan sand	ML SM SP	NA NA NA	NA NA NA	3.0 feet recovered
5	5 to 10	Tan fine sand	SP	NA	NA	3.5 feet recovered
10	10 to 15	Same as above	SP	NA	NA	5.0 feet recovered
15	15 to 20	Same as above	SP	NA	NA	4.0 feet recovered
20	20 to 25	Same as above	SP	NA	NA	5.0 feet recovered
25	25 to 30	Same as above	SP	NA	NA	4.5 feet recovered Boring completed.
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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-25	86047	40-42 Makamah Road, Fort Salonga - Soil Borings
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	40-42 Makamah Road
DRILLING CONTRACTOR	DRILLER	Fort Salonga, New York
East Coast Geoservices, LLC	Jonathan McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch/Core Barrel	2.0 inches	Located on the central portion of the 40-42 Makamah Road property
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9600
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
30 feet	NA	4/6/2018

SAMPLING METHOD
Plastic Sleeve
BACKFILL
Mason sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	Top 0.5 feet black silty loam Bottom 2.5 feet dark brown silty sand.	ML SM	NA NA	NA NA	3.0 feet recovered
5	5 to 10	Dark brown silty sand	SM	NA	NA	4.0 feet recovered
10	10 to 15	Top 3.5 feet dark brown silty sand Bottom 1.5 feet tan fine sand	SM SP	NA NA	NA NA	5.0 feet recovered
15	15 to 20	Tan fine sand	SP	NA	NA	6.0 feet recovered
20	20 to 25	Tan fine sand	SP	NA	NA	4.0 feet recovered
25	25 to 30	Top 5.0 feet tan fine sand Bottom 1.5 feet tan fine sand, trace silt	SP SP	NA NA	NA NA	6.5 feet recovered Boring completed.
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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-26	ECG# 86047	Indian Hills Golf Course
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	Breeze Hill Road
DRILLING CONTRACTOR	DRILLER	Northport, New York
East Coast Geoservices, LLC	Jonathan McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch/Core Barrel	2.0 inches	Located on the hill leading to the base of the driving range.
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9580-D
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
60 feet	NA	4/20/2018

SAMPLING METHOD
Plastic Sleeve
BACKFILL
Mason sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	Top 0.5 feet black silty loam Bottom 3.5 feet dark brown silty sand.	ML SM	NA NA	NA NA	4.0 feet recovered
5	5 to 10	Dark brown silty sand	SM	NA	NA	4.0 feet recovered
10	10 to 15	Top 3.5 feet dark brown silty sand Bottom 1.5 feet tan fine sand	SM SP	NA NA	NA NA	5.0 feet recovered
15	15 to 20	Tan fine sand	SP	NA	NA	6.0 feet recovered
20	20 to 25	Tan fine sand	SP	NA	NA	4.0 feet recovered
25	25 to 30	Top 5.0 feet tan fine sand Bottom 1.5 feet tan fine sand, trace silt	SP SP	NA NA	NA NA	6.5 feet recovered Boring completed.
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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-27	ECG# 86047	Indian Hills Golf Course
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	Breeze Hill Road
DRILLING CONTRACTOR	DRILLER	Northport, New York
East Coast Geoservices, LLC	Jonathan McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch/Core Barrel	2.0 inches	Located along the tree patch at the base of the driving range.
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9580-D
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
60 feet	NA	4/20/2018

SAMPLING METHOD
Plastic Sleeve
BACKFILL
Mason sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	Top 0.5 feet black silty loam Bottom 2.5 feet dark brown silty sand.	ML SM	NA NA	NA NA	3.0 feet recovered
5	5 to 10	Red clay	CH	NA	NA	5.0 feet recovered
10	10 to 15	Same as above	CH	NA	NA	4.5 feet recovered
15	15 to 20	Same as above	CH	NA	NA	5.0 feet recovered
20	20 to 25	Same as above	CH	NA	NA	4.75 feet recovered
25	25 to 30	Same as above	CH	NA	NA	5.0 feet recovered Boring completed.
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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-28	ECG# 86047	Indian Hills Golf Course
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	Breeze Hill Road
DRILLING CONTRACTOR	DRILLER	Northport, New York:
East Coast Geoservices, LLC	Jonathan McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch/Core Barrel	2.0 inches	Located along the tree patch at the base of the driving range.
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD
NA	NA	Power Probe 9580-D
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE
60 feet	NA	4/20/2018

SAMPLING METHOD
Plastic Sleeve
BACKFILL
Mason sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	Top 0.5 feet black silty loam Bottom 3.0 feet dark brown silty sand.	ML SM	NA NA	NA NA	3.5 feet recovered
5	5 to 10	Red clay	CH	NA	NA	9.0 feet recovered
10	10 to 15	Same as above	CH	NA	NA	5.0 feet recovered
15	15 to 20	Same as above	CH	NA	NA	4.5 feet recovered
20	20 to 25	Same as above	CH	NA	NA	5.0 feet recovered
25	25 to 30	Same as above	CH	NA	NA	5.0 feet recovered Boring completed.
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FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

TEST BORING LOGS - 2
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3,3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY:	GEO	CADD No:86047 PM 2019.DWG	SCALE:	DRAWING NO.:
CHECKED BY:	JM	FILE NO.: 400-014	NONE	TB - 104
DATE: DECEMBER, 2017		PROJECT NO.: 86047		SHEET NO.: 42 OF 43

D:\pmwin\86047\2019\86047 PM 2019.dwg, TEST HOLE LOGS -2, 7/11/2019 9:28:48 PM, DWG To PDF.pc3

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SOIL BORING LOG

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BORING I.D. B-29	PROJECT NO. ECG# 86047	PROJECT NAME Indian Hills Golf Course
LOGGED BY Connor Wilkinson	APPROVED BY Eric Arnesen	LOCATION Breeze Hill Road Northport, New York
DRILLING CONTRACTOR East Coast Geoservices, LLC	DRILLER Jonathan McGinn	
DRILL BIT DIAMETER/TYPE 2.0 inch/Core Barrel	BOREHOLE DIAMETER 2.0 inches	BORING LOCATION DESCRIPTION Located amidst the tree patch at the base of the driving range.
LAND SURFACE ELEVATION NA	COORDINATES NA	DRILLING EQUIPMENT/METHOD Power Probe 9580-D — SAMPLING METHOD Plastic Sleeve
DEPTH OF BORING 30 feet	DEPTH TO WATER NA	START/FINISH DATE 4/10/2018 — BACKFILL Mason sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5	0 to 5	Top 0.5 feet black silty loam Bottom 3.5 feet dark brown silty sand.	ML SM	NA NA	NA NA	4.0 feet recovered
10	5 to 10	Top 0.5 feet dark brown silty sand Bottom 4.0 feet red clay	SM OH	NA NA	NA NA	4.5 feet recovered
15	10 to 15	Red clay	OH	NA	NA	5.0 feet recovered
20	15 to 20	Same as above	OH	NA	NA	4.75 feet recovered
25	20 to 25	Same as above	OH	NA	NA	5.0 feet recovered
30	25 to 30	Same as above	OH	NA	NA	4.75 feet recovered Boring completed.
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SOIL BORING LOG

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BORING I.D. SB-1CH	PROJECT NO. ECG# 86047	PROJECT NAME Indian Hills Country Club
LOGGED BY Eric Arnesen	APPROVED BY Eric Arnesen	LOCATION Breeze Hill Road Northport, New York
DRILLING CONTRACTOR East Coast Geoservices, LLC	DRILLER Steven J. McGinn	
DRILL BIT DIAMETER/TYPE 2.25 inch/Hollow Stem Auger	BOREHOLE DIAMETER 5.5 inches	BORING LOCATION DESCRIPTION Located south of eastern practice putting green.
LAND SURFACE ELEVATION NA	COORDINATES NA	DRILLING EQUIPMENT/METHOD Power Probe 9600 — SAMPLING METHOD Split Spoon
DEPTH OF BORING 32 feet	DEPTH TO WATER Not Encountered	START/FINISH DATE 23-Jul-18 — BACKFILL Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
	0 to 2	Top 0.5 feet dark brown silty loam (Top Soil). Bottom 0.5 feet reddish brown sandy silt, trace gravel.	ML SM	1-1-1-1	NA	1.0 feet recovered
	2 to 4	Top 0.5 feet reddish brown fine sand, trace gravel. Bottom 0.5 feet pale brown fine sand, trace gravel.	SP SP	3-6-10-15	NA	1.0 feet recovered
5	4 to 6	All pale brown fine sand, trace gravel.	SP	12-15-18-21	NA	1.0 feet recovered
	6 to 8	All same as above.	SP	WOR-20-20	NA	0.8 feet recovered
10	8 to 10	Top 0.2 feet same as above. Bottom 0.8 feet light brown silt, trace gravel.	SP ML	16-28-32-42	NA	1.0 feet recovered
15	10 to 12	Top 0.7 feet light brown silty sand, trace gravel. Bottom 0.3 feet pale brown fine sand, trace gravel.	SM SP	26-26-24-24	NA	1.0 feet recovered
20	15 to 17	All pale brown very fine sand, trace gravel.	SP	27-14-14-18	NA	1.2 feet recovered
25	20 to 22	All white fine sand.	SP	10-7-7-10	NA	1.0 feet recovered
30	25 to 27	All white fine sand, trace gravel.	SP	14-30-20-18	NA	1.0 feet recovered
35	30 to 32	All white fine sand.	SP	32-17-20-20	NA	1.0 feet recovered Boring Complete
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SOIL BORING LOG

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BORING I.D. SB-2CH	PROJECT NO. ECG# 86047	PROJECT NAME Indian Hills Country Club
LOGGED BY Connor Wilkenson	APPROVED BY Eric Arnesen	LOCATION Breeze Hill Road Northport, New York
DRILLING CONTRACTOR East Coast Geoservices, LLC	DRILLER Jonathan McGinn	
DRILL BIT DIAMETER/TYPE 4.25 inch/Hollow Stem Auger	BOREHOLE DIAMETER 7.0 inches	BORING LOCATION DESCRIPTION Located on the north side of southern end of access path that leads to west side of clubhouse.
LAND SURFACE ELEVATION NA	COORDINATES NA	DRILLING EQUIPMENT/METHOD Power Probe 9580 — SAMPLING METHOD Split Spoon
DEPTH OF BORING 52 feet	DEPTH TO WATER Not Encountered	START/FINISH DATE 23-Jul-18 — BACKFILL Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
	0 to 2	All brown silty sand.	SM	WOR for 18 2	NA	1.0 feet recovered
	2 to 4	All same as above.	SM	2-1-2-5	NA	1.25 feet recovered
5	4 to 6	All same as above.	SM	8-7-9-11	NA	1.25 feet recovered
	6 to 8	All brown fine sand, trace gravel.	SP	7-8-10-10	NA	1.75 feet recovered
10	8 to 10	All same as above.	SP	7-7-8-9	NA	1.75 feet recovered
15	10 to 12	Top 0.75 feet same as above. Mid 0.5 feet brown silty sand. Bottom brown fine sand, trace gravel.	SP SM SP	7-7-7-7	NA	1.75 feet recovered
20	15 to 17	Top 0.5 brown silty sand. Bottom 1.0 feet brown fine sand.	SM SP	1-2-4-9	NA	1.5 feet recovered
25	20 to 22	All brown fine sand.	SP	5-7-9-8	NA	1.75 feet recovered
30	25 to 27	Top 0.25 feet brown silty sand. Bottom 1.75 feet brown fine sand.	SM SP	6-10-9-12	NA	2.0 feet recovered
35	30 to 32	All brown fine to medium sand, trace gravel.	SW	12-17-17-18	NA	1.75 feet recovered
40	35 to 37	Top 0.25 feet brown coarse sand. Bottom 1.25 feet brown fine to medium sand, trace gravel.	SP SW	11-12-17-17	NA	1.5 feet recovered
45	40 to 42	All brown fine sand.	SP	6-8-12-14	NA	1.5 feet recovered
50	45 to 47	All same as above.	SP	12-14-21-27	NA	2.0 feet recovered
55	50 to 52	All brown fine to medium sand, trace gravel.	SW	12-14-28-22	NA	2.0 feet recovered Boring Complete

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SOIL BORING LOG

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BORING I.D. SB-3CH	PROJECT NO. ECG# 86047	PROJECT NAME Indian Hills Country Club
LOGGED BY Eric Arnesen	APPROVED BY Eric Arnesen	LOCATION Breeze Hill Road Northport, New York
DRILLING CONTRACTOR East Coast Geoservices, LLC	DRILLER Steven J. McGinn	
DRILL BIT DIAMETER/TYPE 2.25 inch/Hollow Stem Auger	BOREHOLE DIAMETER 5.5 inches	BORING LOCATION DESCRIPTION Located on the south side of northern end of access path that leads to west side of clubhouse.
LAND SURFACE ELEVATION NA	COORDINATES NA	DRILLING EQUIPMENT/METHOD Power Probe 9600 — SAMPLING METHOD Split Spoon
DEPTH OF BORING 32 feet	DEPTH TO WATER Not Encountered	START/FINISH DATE 23-Jul-18 — BACKFILL Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
	0 to 2	All dark brown silty loam (Top Soil).	ML	2-2-3-2	NA	0.5 feet recovered
	2 to 4	Top 0.5 feet reddish brown fine sand, trace gravel. Bottom 0.5 feet brown fine to medium sand, trace gravel.	SP SW	1-2-4-9	NA	1.0 feet recovered
5	4 to 6	Top 0.5 feet reddish brown fine sand, trace gravel; Mid 0.2 feet brown sandy silt, trace gravel; Bottom 0.5 feet brown fine sand, trace gravel.	SP; SM SP	10-17-22-22	NA	1.2 feet recovered
	6 to 8	All pale brown fine sand, trace gravel.	SP	20-20-19-18	NA	1.5 feet recovered
10	8 to 10	All pale brown silty sand, trace gravel.	SM	16-16-19-17	NA	1.0 feet recovered
15	10 to 12	All same as above.	SM	17-20-20-24	NA	1.0 feet recovered
20	15 to 17	All light brown fine sand, trace gravel.	SP	9-12-13-14	NA	1.0 feet recovered
25	20 to 22	Top 0.8 feet white medium to coarse sand and gravel. Bottom 0.2 feet reddish brown fine sand, trace gravel.	SW SP	3-4-5-10	NA	1.0 feet recovered
30	25 to 27	All light brown fine to medium sand, trace gravel.	SW	9-16-16-16	NA	0.8 feet recovered
35	30 to 32	No recovery.		11-15-17-17	NA	0.0 feet recovered Boring Complete
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SOIL BORING LOG

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BORING I.D. B-30	PROJECT NO. ECG# 86047	PROJECT NAME Indian Hills Golf Course
LOGGED BY Eric C. Arnesen, PG	APPROVED BY Eric C. Arnesen, PG	LOCATION Breeze Hill Road Northport, New York
DRILLING CONTRACTOR East Coast Geoservices, LLC	DRILLER Jonathan McGinn	
DRILL BIT DIAMETER/TYPE 2.0 inch/Core Barrel	BOREHOLE DIAMETER 2.0 inches	BORING LOCATION DESCRIPTION Located between the 7th and 14th fairways in the northern end of proposed recharge basin.
LAND SURFACE ELEVATION NA	COORDINATES NA	DRILLING EQUIPMENT/METHOD Power Probe 9580-D — SAMPLING METHOD Plastic Sleeve
DEPTH OF BORING 45 feet	DEPTH TO WATER NA	START/FINISH DATE 1/22/2019 — BACKFILL Mason sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5	0 to 5	Top 1.5 feet light brown silt. Mid 1.5 feet reddish brown silty clay. Mid 0.5 feet reddish brown silt Bottom 0.5 feet reddish brown fine sand, trace gravel.	ML CL ML SP	NA NA	NA NA	4.0 feet recovered
10	5 to 10	Top 0.8 feet pale brown fine sand, trace gravel. Bottom 3.2 feet pale brown clayey silt, trace gravel.	SP ML	NA	NA	4.0 feet recovered
15	10 to 15	All reddish brown clayey silt, trace gravel.	ML	NA	NA	4.0 feet recovered
20	15 to 20	Top 1.5 feet same as above. Mid 1.5 feet reddish brown fine sand, trace gravel. Wet. Perched water at 16.5 feet bgs. Bottom 1.0 feet brown clay.	ML SP CL	NA	NA	4.0 feet recovered
25	20 to 25	All brown clay.	CL	NA	NA	5.0 feet recovered
30	25 to 30	All same as above.	CL	NA	NA	5.0 feet recovered
35	30 to 35	All same as above.	CL	NA	NA	5.0 feet recovered
40	35 to 40	All same as above.	CL	NA	NA	5.0 feet recovered
45	40 to 45	All same as above.	CL	NA	NA	5.0 feet recovered Boring Complete
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SOIL BORING LOG

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BORING I.D. B-31	PROJECT NO. ECG# 86047	PROJECT NAME Indian Hills Golf Course
LOGGED BY Eric C. Arnesen, PG	APPROVED BY Eric C. Arnesen, PG	LOCATION Breeze Hill Road Northport, New York
DRILLING CONTRACTOR East Coast Geoservices, LLC	DRILLER Jonathan McGinn	
DRILL BIT DIAMETER/TYPE 2.0 inch/Core Barrel	BOREHOLE DIAMETER 2.0 inches	BORING LOCATION DESCRIPTION Located between the 7th and 14th fairways centrally located within proposed recharge basin.
LAND SURFACE ELEVATION NA	COORDINATES NA	DRILLING EQUIPMENT/METHOD Power Probe 9580-D — SAMPLING METHOD Plastic Sleeve
DEPTH OF BORING 45 feet	DEPTH TO WATER NA	START/FINISH DATE 1/22/2019 — BACKFILL Mason sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5	0 to 5	Top 0.5 feet dark brown silty loam. Mid 0.5 feet brown fine to medium sand, trace gravel. Bottom 2.0 feet reddish brown clayey silt.	ML SW ML	NA NA	NA NA	3.0 feet recovered
10	5 to 10	Top 1.0 reddish brown silty sand. Bottom 3.0 brown clay.	SP CL	NA	NA	4.0 feet recovered
15	10 to 15	All brown clay.	CL	NA	NA	4.5 feet recovered
20	15 to 20	All same as above.	CL	NA	NA	5.0 feet recovered
25	20 to 25	All same as above.	CL	NA	NA	5.0 feet recovered
30	25 to 30	All same as above.	CL	NA	NA	5.0 feet recovered
35	30 to 35	All same as above.	CL	NA	NA	5.0 feet recovered
40	35 to 40	All same as above.	CL	NA	NA	5.0 feet recovered
45	40 to 45	All same as above.	CL	NA	NA	5.0 feet recovered
50	45 to 50	All same as above.	CL	NA	NA	5.0 feet recovered Boring Complete
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SOIL BORING LOG

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BORING I.D. B-32	PROJECT NO. ECG# 86047	PROJECT NAME Indian Hills Golf Course
LOGGED BY Eric C. Arnesen, PG	APPROVED BY Eric C. Arnesen, PG	LOCATION Breeze Hill Road Northport, New York
DRILLING CONTRACTOR East Coast Geoservices, LLC	DRILLER Jonathan McGinn	
DRILL BIT DIAMETER/TYPE 2.0 inch/Core Barrel	BOREHOLE DIAMETER 2.0 inches	BORING LOCATION DESCRIPTION Located between the 7th and 14th fairways in the southern end of proposed recharge basin.
LAND SURFACE ELEVATION NA	COORDINATES NA	DRILLING EQUIPMENT/METHOD Power Probe 9580-D — SAMPLING METHOD Plastic Sleeve
DEPTH OF BORING 40 feet	DEPTH TO WATER NA	START/FINISH DATE 1/22/2019 — BACKFILL Mason sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
5	0 to 5	Top 0.5 feet brown silty loam. Bottom 3.5 feet reddish brown silty sand, trace gravel.	ML SM	NA NA	NA NA	4.0 feet recovered
10	5 to 10	Top 0.5 feet reddish brown silty sand. Mid 0.5 feetreddish brown silty clay. Mid 0.5 feetreddish brown fine to medium sand, trace gravel. Mid 0.5 feet reddish brown clay. Bottom 2.5 feet reddish brown silty sand.	SP CL SW CL SM	NA	NA	4.5 feet recovered
15	10 to 15	All reddish brown fine sand, trace gravel.	SP	NA	NA	4.0 feet recovered
20	15 to 20	Top 1.0 feet reddish brown silty clay. Bottom 2.0 feet reddish brown fine sand, trace gravel.	CL SP	NA	NA	3.0 feet recovered
25	20 to 25	All brown clay.	CL	NA	NA	5.0 feet recovered
30	25 to 30	Top 1.0 feet same as above/ Mid 2.5 feet pale brown fine sand, trace gravel. Bottom 0.5 feet brown clay.	CL SP CL	NA	NA	4.0 feet recovered
35	30 to 35	Top 1.0 feet pale brown fine sand, trace gravel. Mid 0.5 feet reddish brown silty sand. Bottom 3.5 feet brown clay.	SP SM CL	NA	NA	5.0 feet recovered
40	35 to 40	All brown clay.	CL	NA	NA	5.0 feet recovered Boring Complete
45						
50						
55						

FOR TOWN USE

No.	REVISION	DATE
2.	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1.	REVISE LAYOUT	06-15-2018

OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

TEST BORING LOGS - 3
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.3, 11, 12, 16, 19 AND P/O 22

NELSON & POPE
ENGINEERS & SURVEYORS
572 WALT WHITMAN ROAD, MELVILLE, N.Y. 11747
PHONE (631) 427-5665 FAX (631) 427-5620
WWW.NELSONPOPE.COM

DRAWN BY: GEO	CADD No 86047 PM 2019.DWG	SCALE:	DRAWING NO.: TB - 105
CHECKED BY: JM	FILE NO.: 400-014	NONE	
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 43 OF 43

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