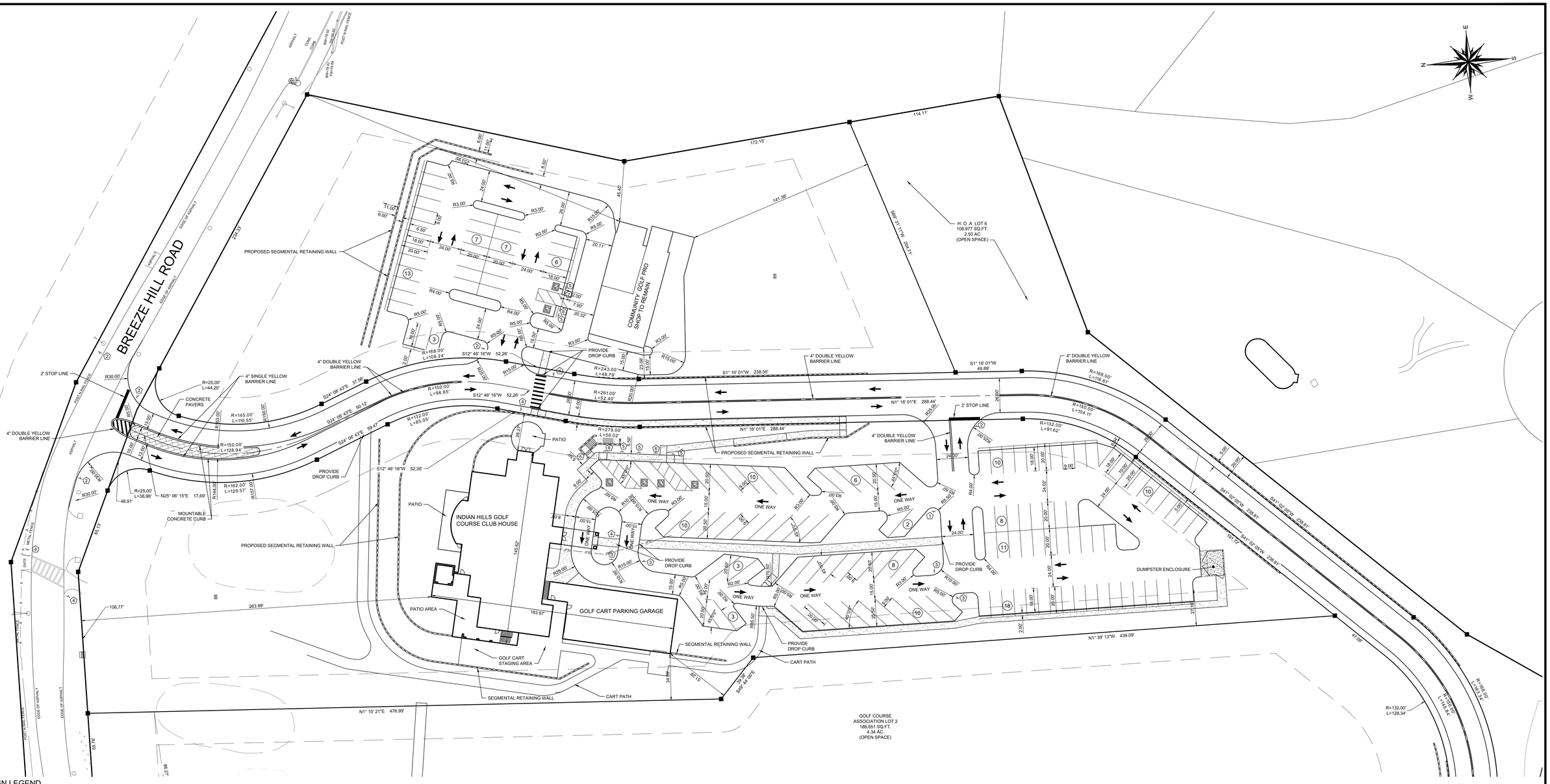


SIGN LEGEND

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
RESERVED PARKING SIGN	R5-1	30" x 30"	3
	R1-5L	24" x 24"	4
RESERVED PARKING SIGN 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

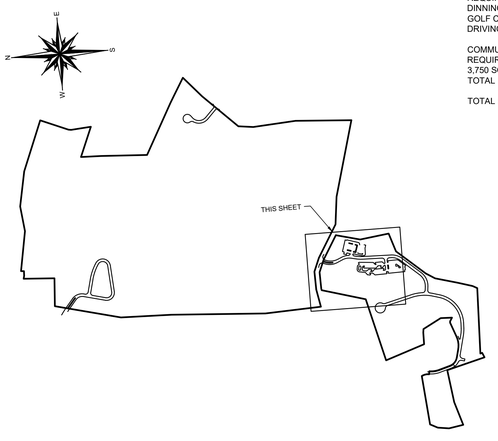
PAVEMENT MARKING LEGEND:

MARKING	DESCRIPTION
4" (TYP) 10' 2' 2' 2' 2' 4" (TYP) 10' 2' 10'	DOTTED LINE (WHITE) DOTTED LINE (YELLOW)
	BROKEN LINE (WHITE) BROKEN LINE (YELLOW)
4" (TYP) 4" (TYP)	FULL BARRIER (YELLOW) PARTIAL BARRIER (YELLOW)
4" (TYP)	LANE LINE (WHITE)
4" (TYP) 4" (TYP)	EDGELINE (WHITE) EDGELINE (YELLOW)
12" (TYP) 4" (TYP) 12" (TYP)	CHANNELIZING (WHITE) CHANNELIZING (YELLOW)
24" (TYP)	STOP LINE (WHITE)
45° 2' 12" (TYP) 4' 4'	CROSSWALK (WHITE)
	THERMOPLASTIC REFLECTIVE PAVEMENT SYMBOLS (WHITE)

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: 145 STALLS



FOR TOWN USE

No.	REVISION	DATE
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
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

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 3.1, 3.2, 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 2020.DWG	SCALE: 1"=30'	DRAWING NO.: C - 104
CHECKED BY: JM	FILE NO.: 400-014		
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 5 OF 45

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

- P92.59 / T092.59 / BC92.2 / R92.0 — PAVEMENT ELEVATION / TOP OF CURB ELEVATION / BOTTOM OF CURB ELEVATION / SPOT ELEVATION
- ELECTRIC BOX
- PULL BOX
- FIRE HYDRANT
- GAS VALVE
- WATER VALVE
- TRANSFORMER
- ELECTRIC POLE
- LIGHT POLE
- HIGH TENSION TOWER
- W.M. — WATER MAIN
- W.S. — WATER SERVICE
- G.M. — GAS MAIN
- 94 — CONTOUR
- E — ELECTRIC
- W — WATER
- G — GAS
- X — FENCE
- S — SANITARY SEWER
- T — TELEPHONE
- OHW — OVERHEAD WIRE
- D — DRAINAGE
- CATV — TELEVISION
- DRAINAGE MANHOLE
- CATCH BASINS
- TREE TO BE REMOVED
- DECIDUOUS TREE TO REMAIN
- EVERGREEN TREE TO REMAIN
- MONUMENT

PROPOSED

- (TC92.00) / (BC91.5) / x(92.0) / LP / CB / SMH / DMH — TOP OF CURB ELEVATION / BOTTOM OF CURB ELEVATION / SPOT ELEVATION / LEACHING POOL / CATCH BASIN / SANITARY MANHOLE / 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

MEET EXISTING CURB

COASTAL EROSION HAZARD LINE AS FLAGGED BY N.P. AND V DATED AUGUST 29, 2019

LAND NOW OR FORMERLY OF INDIAN HILLS ESTATES (S.C.T.M. 406.5-4-11) ZONE: R-40 RES

MYSTIC LANE

SAWCUT EXISTING PAVEMENT (FULL DEPTH) SEAL JOINT WITH LIQUID BITUMINOUS SEALANT JUST PRIOR TO INSTALLATION OF PAVEMENT.

MEET EXIST. CURB

LIMIT OF CLEARING (TYP.)

PROPOSED SEGMENTAL RETAINING WALL

LAND NOW OR FORMERLY OF HENRY (S.C.T.M. 14.5-3) ZONE: R-40 RES

N14°04'09"E 660.99'

LAND NOW OR FORMERLY OF MAZZONI (S.C.T.M. 14.5-5.4) ZONE: R-40 RES

LAND NOW OR FORMERLY OF MAZZONI (S.C.T.M. 14.5-5.3) ZONE: R-40 RES

MYSTIC RIDGE

EXIST. GREEN

PROPOSED TEE

PROPOSED SEGMENTAL RETAINING WALL

CART PATH

100' SETBACK FROM WETLANDS LINE

WETLANDS LINE

F.F.L. 72.4 B.F.L. 62.4 — GAR. FL. 71.7
F.F.L. 73.3 B.F.L. 63.3 — GAR. FL. 72.6
F.F.L. 77.3 B.F.L. 67.3 — GAR. FL. 76.6
F.F.L. 80.3 B.F.L. 70.3 — GAR. FL. 79.6
F.F.L. 75.5 B.F.L. 64.5 — GAR. FL. 74.6
F.F.L. 78.8 B.F.L. 67.8 — GAR. FL. 78.1
F.F.L. 72.5 B.F.L. 61.5 — GAR. FL. 71.8
F.F.L. 81.0 B.F.L. 71.0 — GAR. FL. 80.3
F.F.L. 81.2 B.F.L. 70.9 — GAR. FL. 81.2
F.F.L. 76.0 B.F.L. 65.7 — GAR. FL. 75.9
F.F.L. 79.7 B.F.L. 68.7 — GAR. FL. 79.0
F.F.L. 73.4 B.F.L. 62.4 — GAR. FL. 72.7
F.F.L. 71.4 B.F.L. 60.4 — GAR. FL. 70.7
F.F.L. 71.0 B.F.L. 60.0 — GAR. FL. 70.3
F.F.L. 72.5 B.F.L. 61.7 — GAR. FL. 72.0
F.F.L. 74.2 B.F.L. 64.2 — GAR. FL. 73.5
F.F.L. 72.5 B.F.L. 64.5 — GAR. FL. 74.6

THIS SHEET

SHEET C-105
SHEET C-106
SHEET C-107
SHEET C-108
SHEET C-109
SHEET C-110
SHEET C-111
SHEET C-112
SHEET C-113
SHEET C-114

SCALE: 1" = 30'

0 30 60 100

FOR TOWN USE

No.	REVISION	DATE
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
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 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 3.1, 3.2, 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 2020.DWG	SCALE: 1"=30'	DRAWING NO.: C - 105
CHECKED BY: JM	FILE NO.: 400-014		
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 6 OF 45

G:\projects\86047\2020\86047 PM 2020.dwg, 8.5"X11" GRADING PLAN 1, 7/29/2020 7:31:54 AM, DWG To PDF.pc3

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

PROPOSED SANITARY SYSTEM LOCATION

100' SETBACK FROM WETLANDS LINE

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

BOTTOM ELEVATION 25.0

BOTTOM ELEVATION 23.0

WATER ELEVATION 34.0

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 TEE

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

W.EL. 36.5

W.EL. 43,1

W.EL. 42.7

GREEN 10

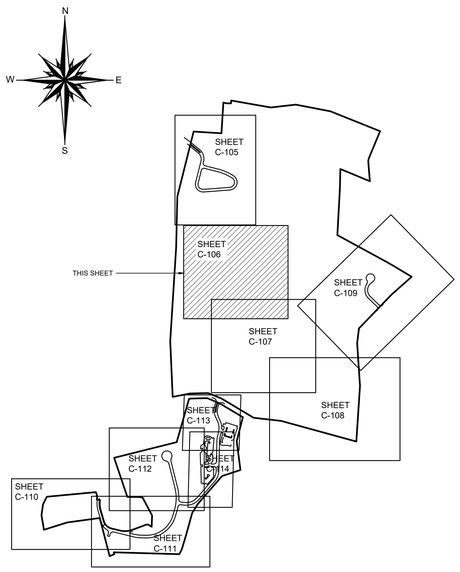
GREEN 14

FAIRWAY

TEE

POND

ASPHALT PATH



EXISTING

P92.59	PAVEMENT ELEVATION	94	CONTOUR
TC92.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC92.2	BOTTOM OF CURB ELEVATION	W	WATER
*92.3	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		
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
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

SCALE: 1" = 40'

0 40 60 100

FOR TOWN USE

No.	REVISION	DATE
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
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 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 3.1, 3.2, 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 2020.DWG	SCALE:	DRAWING NO.: C - 106
CHECKED BY:	JM	FILE NO.: 400-014	1"=40'	
DATE: DECEMBER, 2017		PROJECT NO.: 86047		SHEET NO.: 7 OF 45

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

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

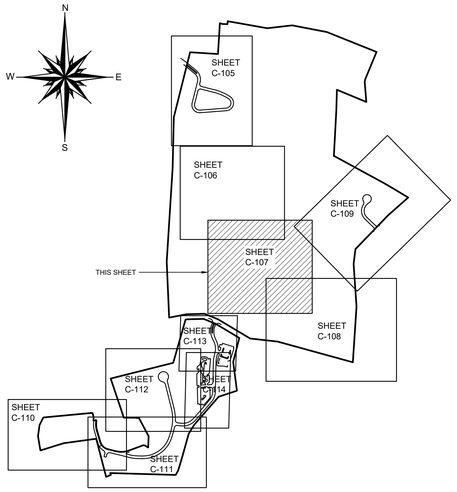
POND
H.W. 15.0
N.W. 12.0
BOTTOM 6.0
270,000 CF STORAGE

DEPRESSION
H.W. 34.0
BOTTOM 31.0

PROPOSED TEE

EXISTING OVERFLOW STRUCTURE TO REMAIN

N87°37'00"W
143.93'



EXISTING

P92.59	PAVEMENT ELEVATION	64	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
GV	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
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		
(93)	CONTOUR	(HC)	SANITARY HOUSE CONNECTION
	LEACHING POOL W/ OPEN GRATE	(D)	DRAINAGE
	LEACHING POOL W/ SOLID COVER	(RD)	ROOF DRAIN
	DRAINAGE BASIN	(T)	TELEPHONE
	CATCH BASIN (TC – TOP OF CURB BOX)	(CATV)	TELEVISION
	HYDRANT		CONCRETE WALK
PS	STREET TREE W / SYMBOL		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
			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
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
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1	REVISE LAYOUT	06-15-2018

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ROBERG REVOCABLE TRUST
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(631) 261 - 5700

APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
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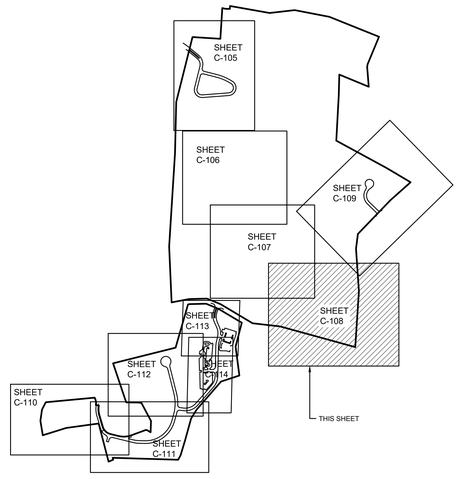
GRADING PLAN 3
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.1, 3.2, 11, 12, 16, 19 AND P/O 22

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DRAWN BY: GEO	CADD No86047 PM 2020.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 45

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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

EXISTING OVERFLOW STRUCTURE TO REMAIN

EXISTING POND DISCHARGE PIPES SHALL BE REMOVED

PROPOSED TEE

S7°09'00"W 146.92' act. (116.04' deed)

S3°54'20"E 421.12'

S3°46'50"W 550.65'

S3° 46' 50"W 39.18'

S75° 43' 54"E 742.12'

N74°37'20"W 769.35'

N83°31'20"W 272.00'

R=20.00'
L=35.06'

BREEZE HILL ROAD

FRESH POND ROAD

GREEN 7

GREEN 15

GREEN 1

GREEN 8

TEE 16

TEE 9

TEE 1

TEE 2

FAIRWAY 6

FAIRWAY 5

FAIRWAY 1

FAIRWAY 2

EXISTING

P32.59	PAVEMENT ELEVATION
TC92.59	TOP OF CURB ELEVATION
BC89.2	BOTTOM OF CURB ELEVATION
x92.0	SPOT ELEVATION
	ELECTRIC BOX
	PULL BOX
	FIRE HYDRANT
GV	GAS VALVE
WV	WATER VALVE
	TRANSFORMER
	ELECTRIC POLE
	LIGHT POLE
	HIGH TENSION TOWER
W.M.	WATER MAIN
W.S.	WATER SERVICE
G.M.	GAS MAIN
94	CONTOUR
E	ELECTRIC
W	WATER
G	GAS
X	FENCE
S	SANITARY SEWER
T	TELEPHONE
OHW	OVERHEAD WIRE
D	DRAINAGE
CATV	TELEVISION
	DRAINAGE MANHOLE
	CATCH BASINS
	TREE TO BE REMOVED
	DECIDUOUS TREE TO REMAIN
	EVERGREEN TREE TO REMAIN
	MONUMENT

PROPOSED

(TC92.00)	TOP OF CURB ELEVATION
(BC91.5)	BOTTOM OF CURB ELEVATION
x92.0)	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

SCALE: 1" = 40'
0 40 60 100

FOR TOWN USE

No.	REVISION	DATE
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
2	TOWN PLANNING BOARD FINAL SCIPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1	REVISE LAYOUT	06-15-2018

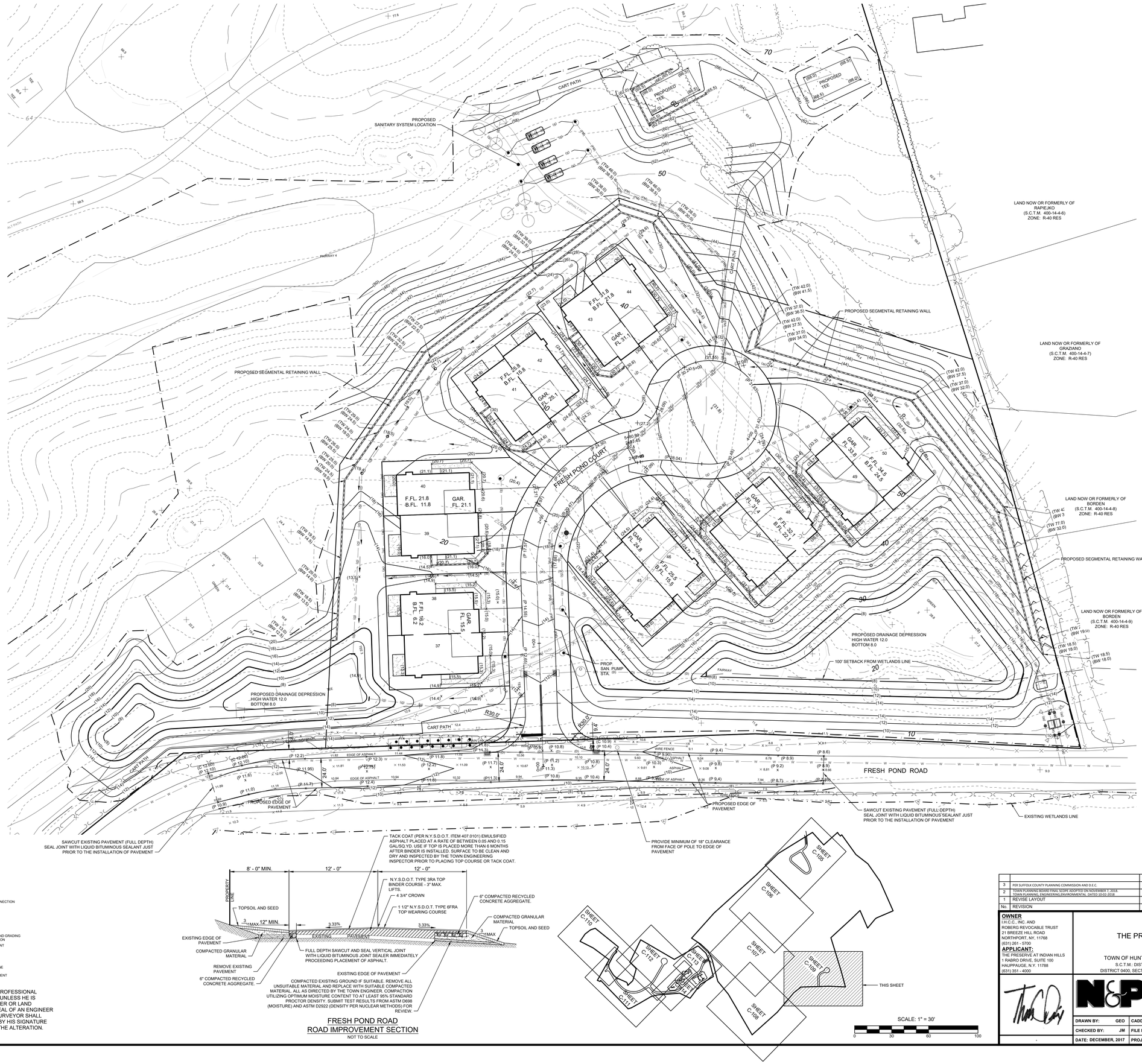
OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

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 3.1, 3.2, 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 2020.DWG	SCALE: 1"=40'	DRAWING NO.: C - 108
CHECKED BY: JM	FILE NO.: 400-014		
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 9 OF 45



EXISTING

PRO.59	PAVEMENT ELEVATION	— H —	CONTOUR
TOG2.59	TOP OF CURB ELEVATION	— E —	ELECTRIC
BOG2.2	BOTTOM OF CURB ELEVATION	— W —	WATER
743.0	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
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.

FRESH POND ROAD
ROAD IMPROVEMENT SECTION
NOT TO SCALE

No.	REVISION	DATE
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
2	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-22-2018	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

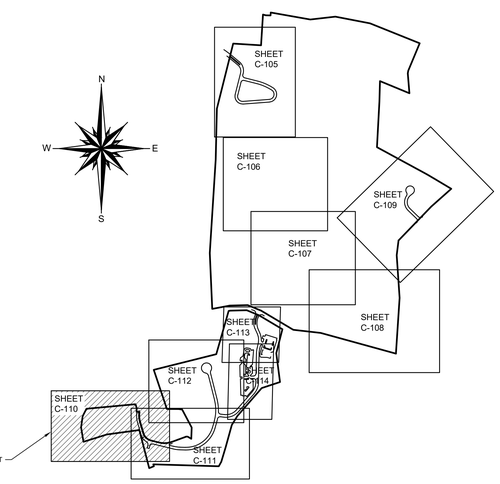
APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

GRADING PLAN 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 3.1, 3.2, 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 2020.DWG	SCALE: 1"=30'
CHECKED BY:	JM	FILE NO.: 400-014	DRAWING NO.: C - 109
DATE: DECEMBER, 2017		PROJECT NO.: 86047	SHEET NO.: 10 OF 45





EXISTING

PS2.59	PAVEMENT ELEVATION	94	CONTOUR
TC92.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC92.2	BOTTOM OF CURB ELEVATION	W	WATER
Fd2.0	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
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

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
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
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

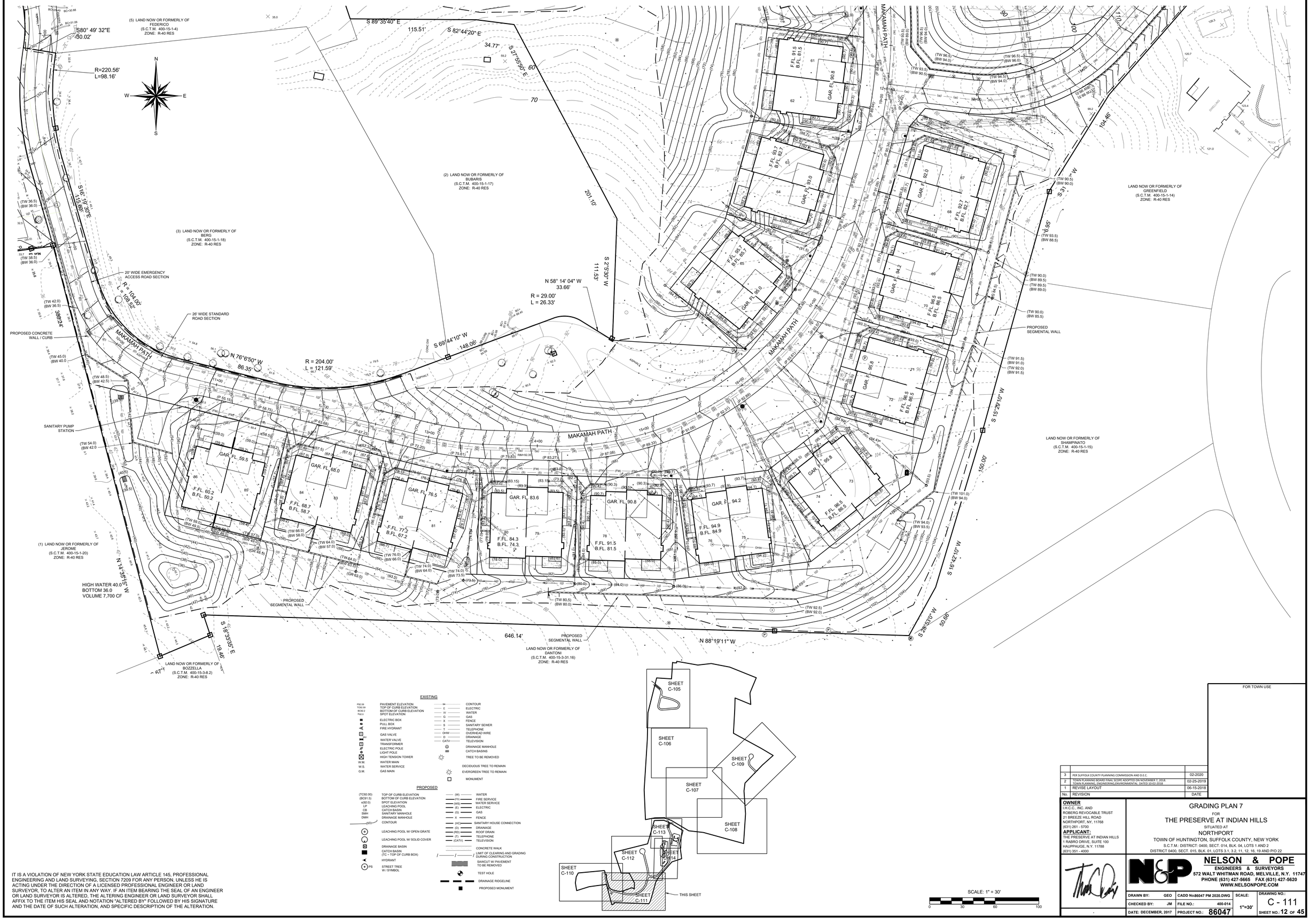
OWNER
I.H.C.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700

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

GRADING PLAN 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 3.1, 3.2, 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 2020.DWG	SCALE:	DRAWING NO.: C - 110
CHECKED BY:	JM	FILE NO.: 400-014	1"=30'	
DATE: DECEMBER, 2017		PROJECT NO.: 86047		SHEET NO.:11 OF 45



EXISTING

PS2.59	PAVEMENT ELEVATION	94	CONTOUR
TC92.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC90.2	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		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
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

SCALE: 1" = 30'
0 30 60 100

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FOR TOWN USE

No.	REVISION	DATE
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
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 3.1, 3.2, 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 2020.DWG	SCALE: 1"=30'
CHECKED BY:	JM	FILE NO.: 400-014	
DATE: DECEMBER, 2017		PROJECT NO.: 86047	

DRAWING NO.: C - 111
SHEET NO.: 12 OF 45



EXISTING

P92.99	PAVEMENT ELEVATION	94	CONTOUR
T(92.99	TOP OF CURB ELEVATION	E	ELECTRIC
B(92.2	BOTTOM OF CURB ELEVATION	W	WATER
X92.0	SPOT ELEVATION	G	GAS
EB	ELECTRIC BOX	X	FENCE
PB	PULL BOX	S	SANITARY SEWER
FH	FIRE HYDRANT	T	TELEPHONE
GV	GAS VALVE	OHW	OVERHEAD WIRE
WV	WATER VALVE	D	DRAINAGE
TF	TRANSFORMER	CATV	TELEVISION
EP	ELECTRIC POLE		DRAINAGE MANHOLE
LP	LIGHT POLE		CATCH BASINS
HT	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
			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
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
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 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 3.1, 3.2, 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 2020.DWG	SCALE: 1"=30'
CHECKED BY:	JM	FILE NO.: 400-014	DRAWING NO.: C - 112
DATE: DECEMBER, 2017		PROJECT NO.: 86047	SHEET NO.: 13 OF 45

BREEZE HILL ROAD

INDIAN HILLS DRIVE

PROPOSED SEGMENTAL RETAINING WALL

PROPOSED SANITARY SYSTEM FOR PRO SHOP

EXISTING GOLF PRO SHOP TO REMAIN

PROPOSED WATER METER VAULT

PROP. RPZ VAULT

MEDIAN WITH CONCRETE PAVERS AND MOUNTABLE CURB

PROPOSED SEGMENTAL RETAINING WALL

EXISTING PRACTICE GREEN TO REMAIN

PROPOSED CLUB HOUSE

F.F.L. 121.0
B.F.L. 109.0

F.F.L. 108.5

PROPOSED SANITARY SYSTEM FOR CLUB HOUSE

PROPOSED DRIVING RANGE

EXISTING PRACTICE GREEN TO REMAIN

PROPOSED WATER METER VAULT

PROP. RPZ VAULT

PROPOSED SEGMENTAL RETAINING WALL

SHEET C-105
SHEET C-106
SHEET C-107
SHEET C-108
SHEET C-109
THIS SHEET
SHEET C-113
SHEET C-114
SHEET C-112
SHEET C-111
SHEET C-110

SCALE: 1" = 20'

0 20 40 60

FOR TOWN USE

No.	REVISION	DATE
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
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
ROBERO 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 3.1, 3.2, 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 2020.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 45

PROPOSED SANITARY SYSTEM FOR PRO SHOP

EXISTING GOLF PRO SHOP

INDIAN HILLS DRIVE

PROPOSED SEGMENTAL RETAINING WALL

PROPOSED SEGMENTAL RETAINING WALL

PROPOSED SEGMENTAL RETAINING WALL

PROPOSED CLUB HOUSE

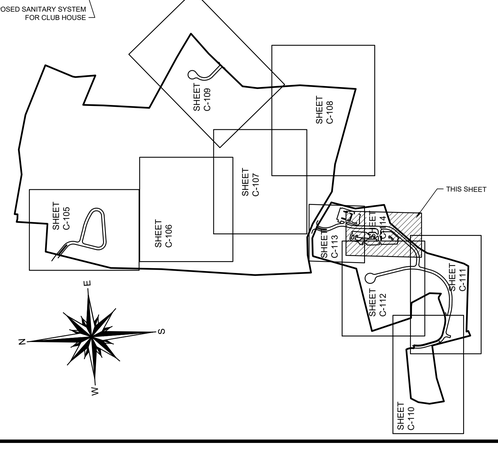
F.F.L. 108.5

PROPOSED DRIVING RANGE

PROPOSED SANITARY SYSTEM FOR CLUB HOUSE

PROPOSED SANITARY SYSTEM FOR SINGLE FAMILY DWELLINGS

INDIAN HILLS DRIVE



EXISTING

- PAVEMENT ELEVATION
- TOP OF CURB ELEVATION
- BOTTOM OF CURB ELEVATION
- SPOT ELEVATION
- ELECTRIC BOX
- PULL BOX
- FIRE HYDRANT
- GAS VALVE
- WATER VALVE
- TRANSFORMER
- ELECTRIC POLE
- LIGHT POLE
- HIGH TENSION TOWER
- WATER MAIN
- WATER SERVICE
- GAS MAIN
- CONTOUR
- ELECTRIC
- WATER
- GAS
- FENCE
- SANITARY SEWER
- TELEPHONE
- OVERHEAD WIRE
- DRAINAGE
- TELEVISION
- DRAINAGE MANHOLE
- CATCH BASINS
- TREE TO BE REMOVED
- DECIDUOUS TREE TO REMAIN
- EVERGREEN TREE TO REMAIN
- MONUMENT

PROPOSED

- TOP OF CURB ELEVATION
- BOTTOM OF CURB ELEVATION
- SPOT ELEVATION
- LEACHING POOL
- CATCH BASIN
- SANITARY MANHOLE
- DRAINAGE MANHOLE
- CONTOUR
- LEACHING POOL W/ OPEN GRATE
- LEACHING POOL W/ SOLID COVER
- DRAINAGE BASIN
- CATCH BASIN (TC – TOP OF CURB BOX)
- HYDRANT
- STREET TREE W / SYMBOL
- WATER
- FIRE SERVICE
- WATER SERVICE
- ELECTRIC
- GAS
- FENCE
- SANITARY HOUSE CONNECTION
- DRAINAGE
- ROOF DRAIN
- TELEPHONE
- TELEVISION
- CONCRETE WALK
- LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
- SAWCUT W/ PAVEMENT TO BE REMOVED
- TEST HOLE
- DRAINAGE RIDGELINE
- PROPOSED MONUMENT

SCALE: 1" = 20'

0 20 40 60

FOR TOWN USE

No.	REVISION	DATE
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
2	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-22-2018	02-25-2019
1	REVISE LAYOUT	06-15-2018

OWNER
I.K.D.C., INC. AND
ROBERG REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11708
(631) 261 - 5700

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

GRADING PLAN 10

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

NORTHPORT

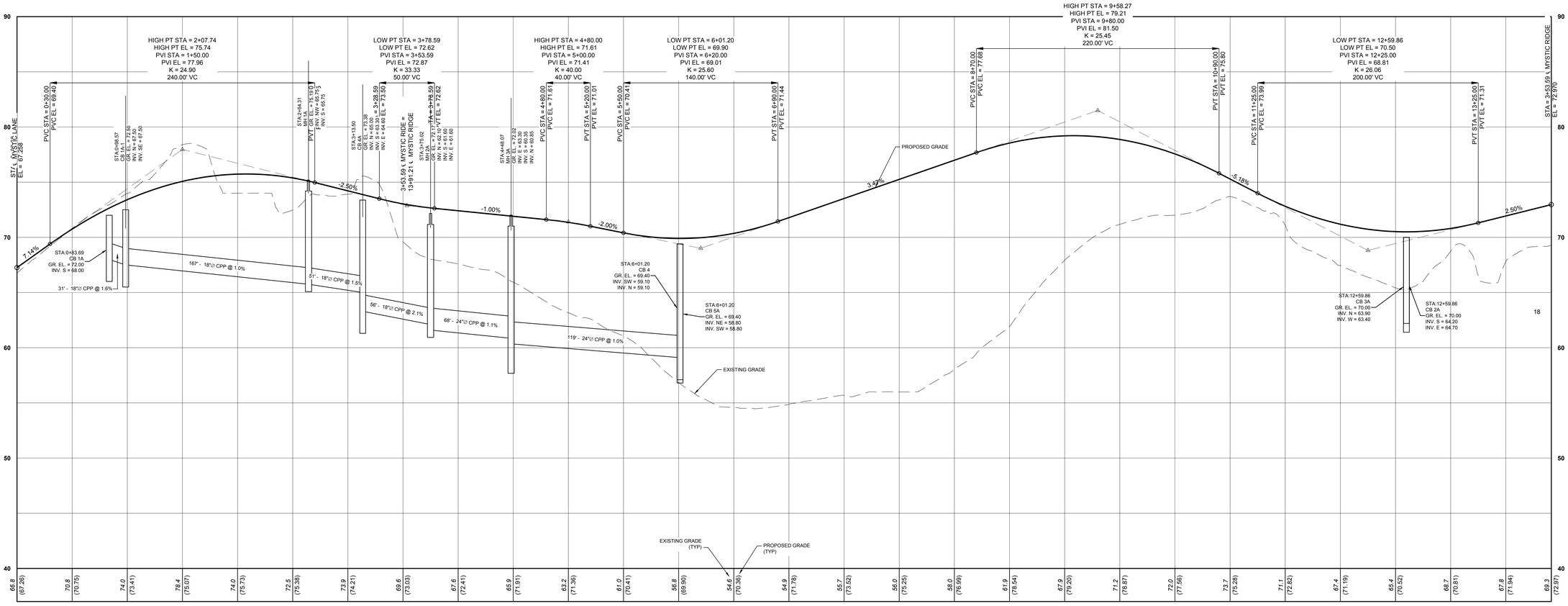
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK

S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.1, 3.2, 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 2020.DWG	SCALE: 1"=20'
CHECKED BY:	JM	FILE NO.: 400-014	DRAWING NO.: C - 114
DATE: DECEMBER, 2017		PROJECT NO.: 86047	SHEET NO.: 15 OF 45


LONG ISLAND SOUND
LONG ISLAND SOUND
LAND NOW OR FORMERLY OF INDIAN HILLS ESTATES (S.C.T.M. 400-14-1-11) ZONE: R-40 RES
MYSTIC LANE
PROPOSED RPZ
PROPOSED WATER METER
COASTAL EROSION HAZARD LINE
LAND NOW OR FORMERLY OF INDIAN HEAD BLUFF LLC (S.C.T.M. 400-14-6-36) ZONE: R-40 RES
LAND NOW OR FORMERLY OF WAY (S.C.T.M. 400-14-4-3) ZONE: R-40 RES
MYSTIC RIDGE
LAND NOW OR FORMERLY OF ZACHER (S.C.T.M. 400-14-4-10) ZONE: R-40 RES
COASTAL EROSION HAZARD LINE
LAND NOW OR FORMERLY OF INDIAN HEAD BLUFF LLC (S.C.T.M. 400-14-6-37) 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 ZACHER (S.C.T.M. 400-14-4-3) ZONE: R-40 RES
COUSINS STREET
LAND NOW OR FORMERLY OF KNOPP (S.C.T.M. 400-14-3-5) ZONE: R-40 RES
LAND NOW OR FORMERLY OF C & R HOMES, INC (S.C.T.M. 400-14-4-4.2) ZONE: R-40 RES
THORNTON DRIVE
LAND NOW OR FORMERLY OF JACOBS (S.C.T.M. 400-14-3-6) ZONE: R-40 RES
LAND NOW OR FORMERLY OF AUGUSTINE (S.C.T.M. 400-14-4-4.1) ZONE: R-40 RES
THORNTON DRIVE
CLAYMORE ROAD
LAND NOW OR FORMERLY OF SPEN (S.C.T.M. 400-14-3-7) ZONE: R-40 RES
LAND NOW OR FORMERLY OF GUAN (S.C.T.M. 400-14-4-5) ZONE: R-40 RES
STONAGE LOUNGE (COUNTY)
CB 1A TOP EL. = 72.00 INV. S = 68.00
CB 1A-1 TOP EL. = 72.50 INV. N = 67.50 INV. SE = 67.50
DB 1A TOP EL. = 73.00 INV. S = 69.50
DB 2A TOP EL. = 72.30 INV. N = 68.30 INV. S = 68.30
DB 11A TOP EL. = 68.00 INV. E = 64.00 INV. W = 64.00
DB 3A TOP EL. = 70.50 INV. N = 66.50 INV. S = 66.50
MH 3A TOP EL. = 72.02 INV. E = 63.30 INV. S = 60.35 INV. N = 60.85
DB 4A TOP EL. = 69.30 INV. N = 65.30 INV. S = 65.30
CB 4 TOP EL. = 69.40 INV. SW = 59.10 INV. N = 59.10
DB 5A TOP EL. = 70.90 INV. N = 64.50 INV. SE = 64.50
CB 5A TOP EL. = 69.40 INV. NE = 58.80 INV. SW = 58.80
DB 6A TOP EL. = 68.00 INV. NW = 63.70 INV. SE = 63.70
MH 4A TOP EL. = 68.00 INV. NW = 63.10 INV. SE = 54.40 INV. NE = 57.80
DB 17A TOP EL. = 60.00 INV. NE = 56.00
MH 1A TOP EL. = 75.19 INV. NW = 65.75 INV. S = 65.75
CB 4A TOP EL. = 73.38 INV. N = 65.00 INV. S = 63.30 INV. E = 64.60
DB 10A TOP EL. = 69.00 INV. E = 65.00 INV. W = 64.50
CB 2A TOP EL. = 70.00 INV. S = 64.20 INV. E = 64.70
DB 9A TOP EL. = 72.50 INV. E = 68.50 INV. W = 66.00
DB 25A TOP EL. = 69.00 INV. W = 65.00
DB 26A TOP EL. = 69.00 INV. E = 65.00 INV. W = 65.00
DB 27A TOP EL. = 70.30 INV. SE = 66.00 INV. W = 66.00
DB 28A TOP EL. = 74.30 INV. NW = 70.30
MH 2A TOP EL. = 72.17 INV. N = 62.10 INV. S = 61.60 INV. E = 61.60
CB 3A TOP EL. = 70.00 INV. N = 63.90 INV. W = 63.40
DB 8A TOP EL. = 75.50 INV. W = 69.30 INV. SE = 71.20
DB 20A TOP EL. = 77.00 INV. SE = 73.00
DB 21A TOP EL. = 79.00 INV. NW = 72.00 INV. S = 72.00
DB 22A TOP EL. = 78.80 INV. N = 70.00 INV. SW = 66.50
DB 23A TOP EL. = 69.00 INV. NE = 65.00 INV. SW = 65.00
DB 7A TOP EL. = 76.00 INV. NW = 72.00
DB 14A TOP EL. = 60.70 INV. E = 56.70 INV. W = 56.70
DB 15A TOP EL. = 58.70 INV. E = 54.70 INV. W = 54.70
MK 7A TOP EL. = 46.00 INV. W = 40.00 INV. SE = 40.00
DB 12A TOP EL. = 66.70 INV. W = 62.70
DB 24A TOP EL. = 61.00 INV. NE = 57.00 INV. SW = 43.70
MH 8A TOP EL. = 44.00 INV. NW = 38.00 INV. S = 37.50 INV. NE = 38.00
DB 16A TOP EL. = 58.00 INV. E = 54.00 INV. W = 54.00
DB 13A TOP EL. = 64.20 INV. E = 60.20 INV. W = 60.20
DB 18A TOP EL. = 60.50 INV. SW = 55.60 INV. N = 55.60
DB 19A TOP EL. = 61.00 INV. S = 55.10 INV. NE = 55.10
MH 6A TOP EL. = 46.90 INV. N = 42.50 INV. E = 42.50
MH 5A TOP EL. = 58.70 INV. NW = 53.40 INV. S = 43.00 INV. E = 53.40 INV. SW = 54.50
37' - 18"⌀ CPP @ 1.4%
33' - 15"⌀ CPP @ 1.2%
30' - 15"⌀ CPP @ 1.0%
95' - 15"⌀ CPP @ 1.1%
80' - 15"⌀ CPP @ 1.0%
93' - 15"⌀ CPP @ 4.6%
26' - 18"⌀ CPP @ 1.2%
119' - 24"⌀ CPP @ 1.0%
43' - 15"⌀ CPP @ 1.2%
90' - 15"⌀ CPP @ 1.1%
72' - 15"⌀ CPP @ 1.1%
49' - 15"⌀ CPP @ 1.4%
57' - 18"⌀ CPP @ 1.7%
78' - 18"⌀ CPP @ 2.6%
75' - 18"⌀ CPP @ 2.0%
50' - 18"⌀ CPP @ 2.8%
61' - 15"⌀ CPP @ 1.3%
80' - 18"⌀ CPP @ 0.8%
100' - 24"⌀ CPP @ 1.0%
61' - 18"⌀ CPP @ 1.65%
38' - 18"⌀ CPP @ 1.1%
138' - 24"⌀ CPP @ 1.1%
91' - 18"⌀ CPP @ 2.2%
45' - 18"⌀ CPP @ 1.5%
41' - 18"⌀ CPP @ 3.6%
36' - 18"⌀ CPP @ 1.7%
42' - 18"⌀ CPP @ 1.2%
21' - 24"⌀ CPP @ 2.4%
16' - 18"⌀ CPP @ 3.7%
68' - 24"⌀ CPP @ 3.0%
251' - 24"⌀ CPP @ 1.6%
F.F.L. 72.4 B.F.L. 65.4 GAR. FL. 74.8
F.F.L. 75.5 B.F.L. 64.5 GAR. FL. 74.8
F.F.L. 73.3 B.F.L. 63.3 GAR. FL. 76.8
F.F.L. 77.3 B.F.L. 67.3 GAR. FL. 79.6
F.F.L. 80.3 B.F.L. 70.3 GAR. FL. 79.6
F.F.L. 72.5 B.F.L. 61.5 GAR. FL. 71.8
F.F.L. 75.5 B.F.L. 64.5 GAR. FL. 74.8
F.F.L. 78.8 B.F.L. 67.8 GAR. FL. 78.1
F.F.L. 81.0 B.F.L. 71.0
F.F.L. 72.2 B.F.L. 61.7 GAR. FL. 71.0
GAR. FL. 70.7
F.F.L. 71.4 B.F.L. 60.4
GAR. FL. 72.7
F.F.L. 73.4 B.F.L. 62.4
GAR. FL. 76.0
F.F.L. 76.7 B.F.L. 65.7
GAR. FL. 79.0
F.F.L. 79.7 B.F.L. 68.7
GAR. FL. 81.2
F.F.L. 81.9 B.F.L. 70.9
GAR. FL. 70.3
F.F.L. 71.0 B.F.L. 60.0
F.F.L. 72.8 B.F.L. 61.8 GAR. FL. 72.4
F.F.L. 72.2 B.F.L. 64.2 GAR. FL. 73.5
F.F.L. 73.2 B.F.L. 64.2 GAR. FL. 74.5
F.F.L. 74.2 B.F.L. 65.2 GAR. FL. 75.5
F.F.L. 75.2 B.F.L. 66.2 GAR. FL. 76.5
F.F.L. 76.2 B.F.L. 67.2 GAR. FL. 77.5
F.F.L. 77.2 B.F.L. 68.2 GAR. FL.



MYSTIC RIDGE

STA. 0+00.00 TO STA. 13+91.21

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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
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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

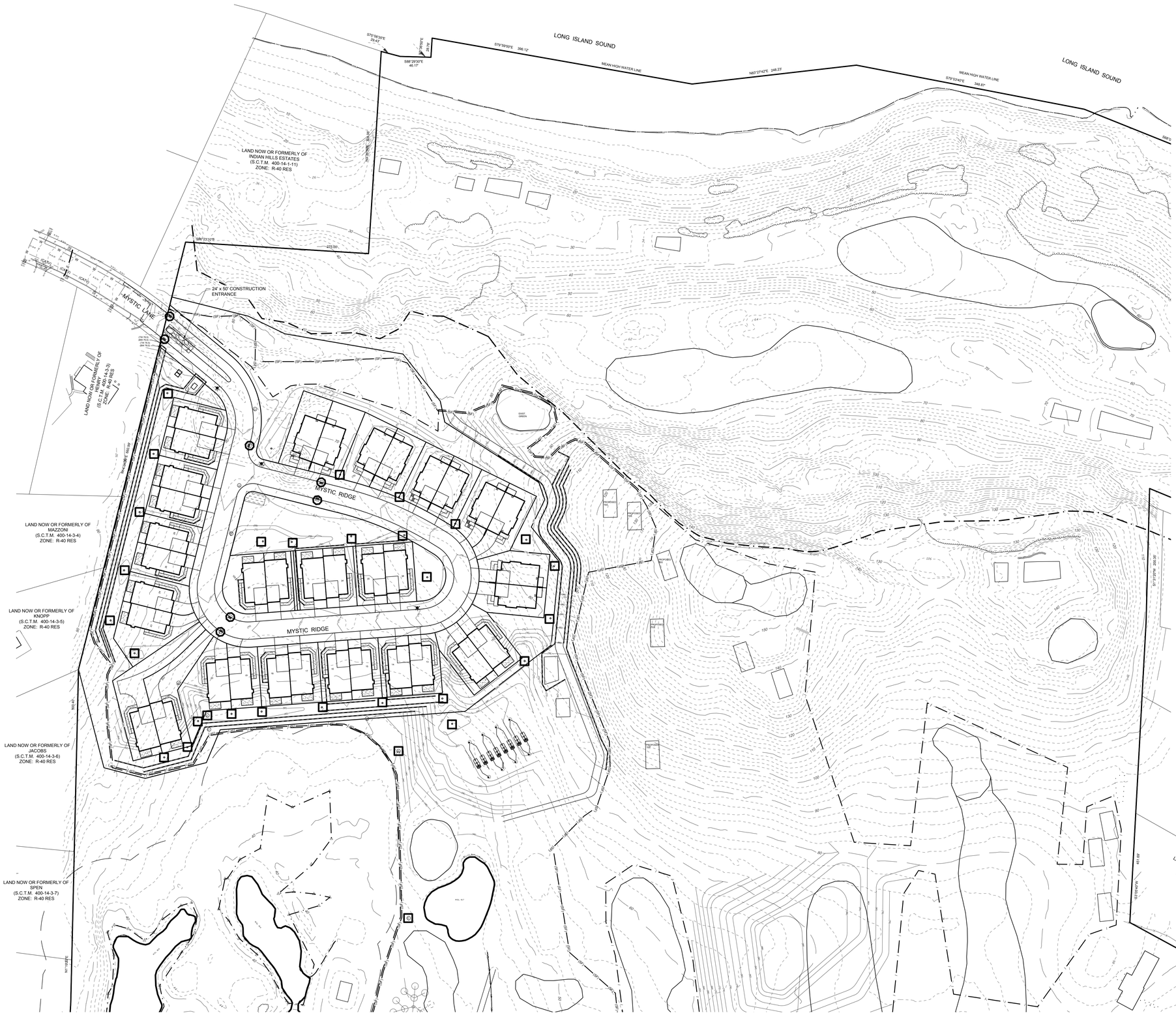
APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

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 3.1, 3.2, 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

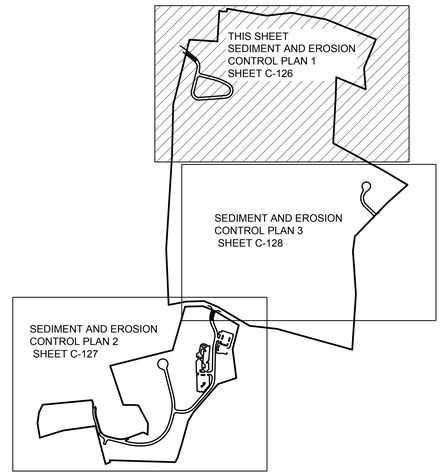
DRAWN BY: GEO	CADD No:86047 PM 2020.DWG	SCALE:	DRAWING NO.:	
CHECKED BY: JM	FILE NO.: 400-014	1" VERT = 4' 1" HORZ = 40'	C - 122	
DATE: DECEMBER, 2017	PROJECT NO.: 86047		SHEET NO.:23 OF 45	

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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
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
2	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018. TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
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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 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 3.1, 3.2, 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 file: Sept PM 2020 EROSLA.DWG	SCALE: 1"=60'	DRAWING NO.: C - 126
CHECKED BY: JM	FILE NO.: 400-014		
DATE: NOVEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 27 OF 45

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.

G:\projects\86047\2020\SEPT PM 2020 EROSLA.mxd, 27 OF 45, SEDIMENT AND EROSION CONTROL PLAN 1, 12/9/2020 7:33:37 AM, DWG To PDF.pc3

LONG ISLAND SOUND

MEAN HIGH WATER LINE

S79°59'00"E 396.12'

N83°27'42"E 248.23'

S79°03'40"E 348.87'

S78°06'35"E 29.43'

S7°35'0"E 29.78'

S88°29'30"E 46.17'

S88°23'10"E 275.00'

LAND NOW OR FORMERLY OF
I.H.C.C., INC. ET AL
SCTM #: 0400-14-4-40
ZONE: R-40 RES

LAND NOW OR FORMERLY OF
INDIAN HILLS ESTATES
(S.C.T.M. 400-14-1.15)
ZONE: R-40 RES

LAND NOW OR FORMERLY OF
ROBERG REVOCABLE TRUST
(S.C.T.M. 400-14-4.2)
ZONE: R-40 RES

MYSTIC LANE

MYSTIC RIDGE

MYSTIC RIDGE

PROPOSED WATER METER

COASTAL EROSION HAZARD LINE
AS FLAGGED BY N.P. AND V DATED AUGUST 29, 2019

LIMIT OF CLEARING (TYP.)

EAST GREEN

PROPOSED SITE

PROPOSED TEE

PROPOSED TEE

PROPOSED TEE

COASTAL EROSION HAZARD LINE
AS FLAGGED BY N.P. AND V DATED AUGUST 29, 2019

N
W E
S

LANDSCAPE PLAN 1
SHEET LP - 101

LANDSCAPE PLAN 2
SHEET LP - 102

LANDSCAPE PLAN 3
SHEET LP - 103

FOR TOWN USE

No.	REVISION	DATE
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
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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

LANDSCAPE 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 3.1, 3.2, 11, 12, 16, 19 AND P/O 22

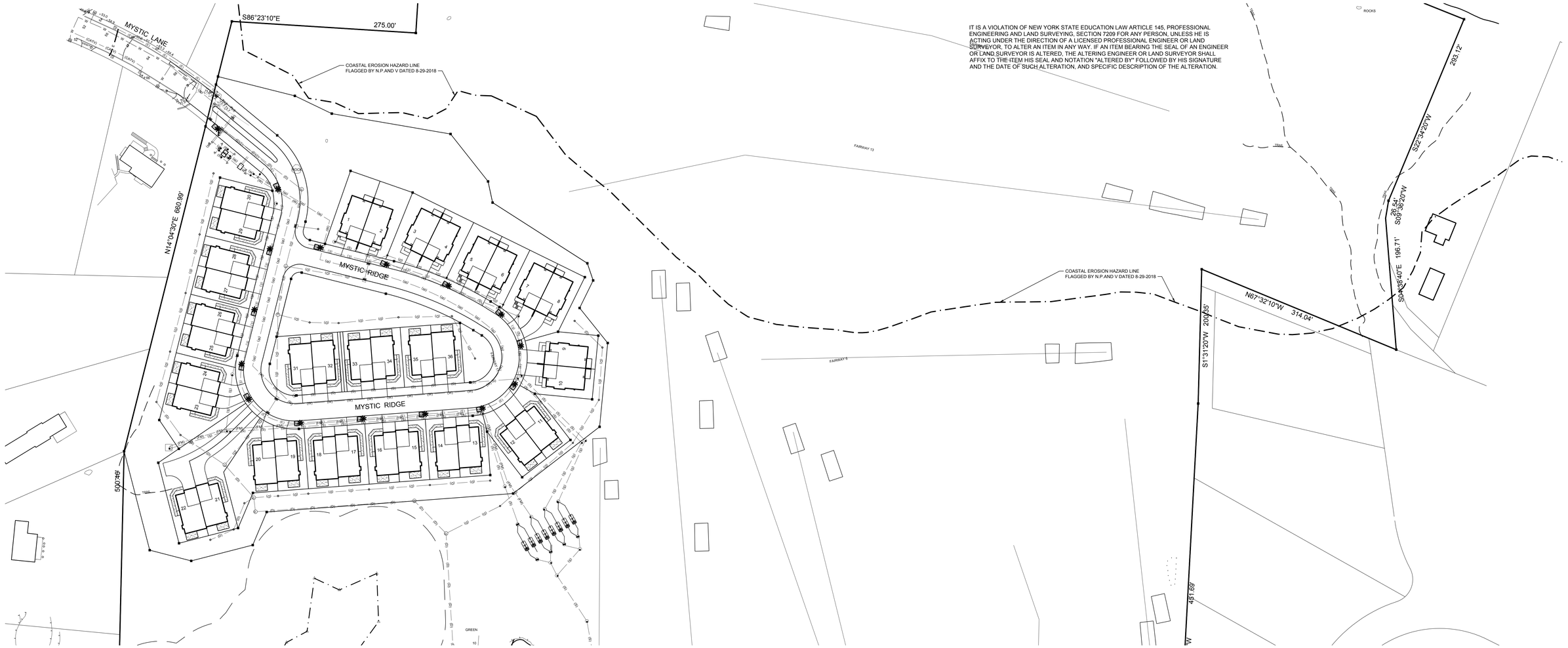
NELSON & POPE
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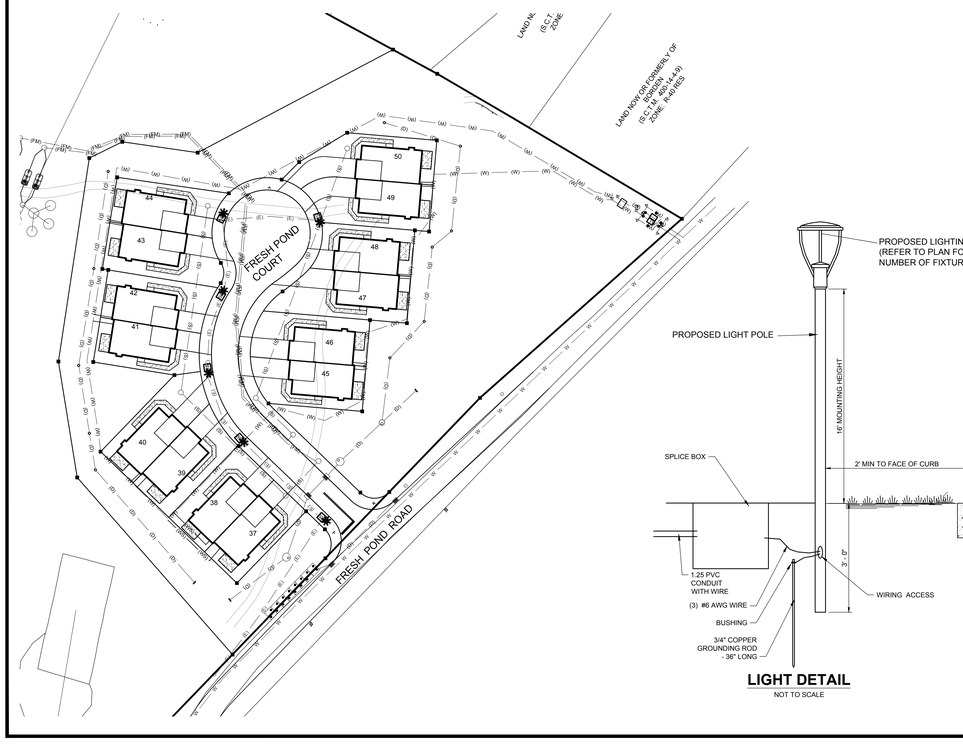
DRAWN BY: GEO	CADD file: 07 PM 2020 EROSLA.DWG	SCALE: 1"=50'	DRAWING NO.: LP - 101
CHECKED BY: JM	FILE NO.: 400-014		
DATE: NOVEMBER, 2017	PROJECT NO.: 86047		SHEET NO.: 30 OF 45

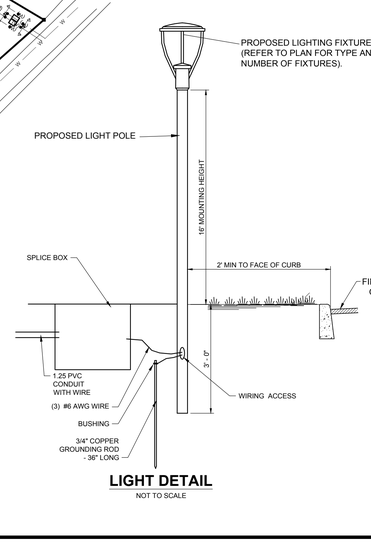
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, PROFESSIONAL ENGINEERING AND LAND SURVEYING, SECTION 7209 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER 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.

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

D:\projects\86047\2020\86047 PM 2020 EROSLA.dwg, 30 OF 45 - LANDSCAPE PLAN 1, 7/29/2020 7:04:59 AM, DWG To PDF.pc3







LIGHT DETAIL

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.

TOWN OF HUNTINGTON
REGULATIONS FOR INSTALLATION OF STREETLIGHTING
IN RESIDENTIAL SUBDIVISIONS

1. GENERAL: STREETLIGHT POLES, LUMINAIRES, 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 BY THE TOWN INSPECTOR. UPON THE 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 LAMP SUPPLIED BY AN APPROVED MANUFACTURER SHALL BE 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, FREESTYLE 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 " DIAMETER GALVANIZED STEEL CONDUIT. ALL CONDUIT SECTIONS AND BENDS FROM BELOW BY MEANS OF 210° 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 EXTEND FROM SPLICE BOX TO SPLICE BOX BY MEANS OF 1.25" GALVANIZED STEEL CONDUIT. EACH STREET LIGHT POLE SHALL BE INDIVIDUALLY FUSED IN THE SPLICE BOX USING A BUSSMAN #HEB-4A 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 5 ATTACHED) AND SHALL BE INSTALLED DIRECTLY BEHIND THE CURB. (1) COPY OF PSEG'S SECONDARY SPLICE BOX AND THE COMPLETED SPLICE BOX 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 #HEB-4 FUSEHOLDER AND A BUSSMAN #SC-15 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 (CWA/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

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

THIS SHEET

SCALE: 1" = 60'

0 30 60 100 200

LEGEND

EXISTING

P62.59	PAVEMENT ELEVATION	94	CONTOUR
TC62.59	TOP OF CURB ELEVATION	E	ELECTRIC
BC62.2	BOTTOM OF CURB ELEVATION	W	WATER
742.3	SPOT ELEVATION	G	GAS
EB	ELECTRIC BOX	X	FENCE
PB	PULL BOX	S	SANITARY SEWER
FH	FIRE HYDRANT	T	TELEPHONE
GV	GAS VALVE	OHW	OVERHEAD WIRE
WV	WATER VALVE	D	DRAINAGE
TF	TRANSFORMER	CATV	TELEVISION
EP	ELECTRIC POLE	DMH	DRAINAGE MANHOLE
LP	LIGHT POLE	CB	CATCH BASINS
HTT	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)		LIMIT OF CLEARING AND GRADING DURING CONSTRUCTION
	HYDRANT		CONCRETE SIDEWALK / CONCRETE APRON
PS	STREET TREE W / SYMBOL		

FOR TOWN USE

No.	REVISION	DATE
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
2	TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018 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 RAIBRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

LIGHTING PLAN - NORTH PARCEL

FOR

THE PRESERVE AT INDIAN HILLS

SITUATED AT

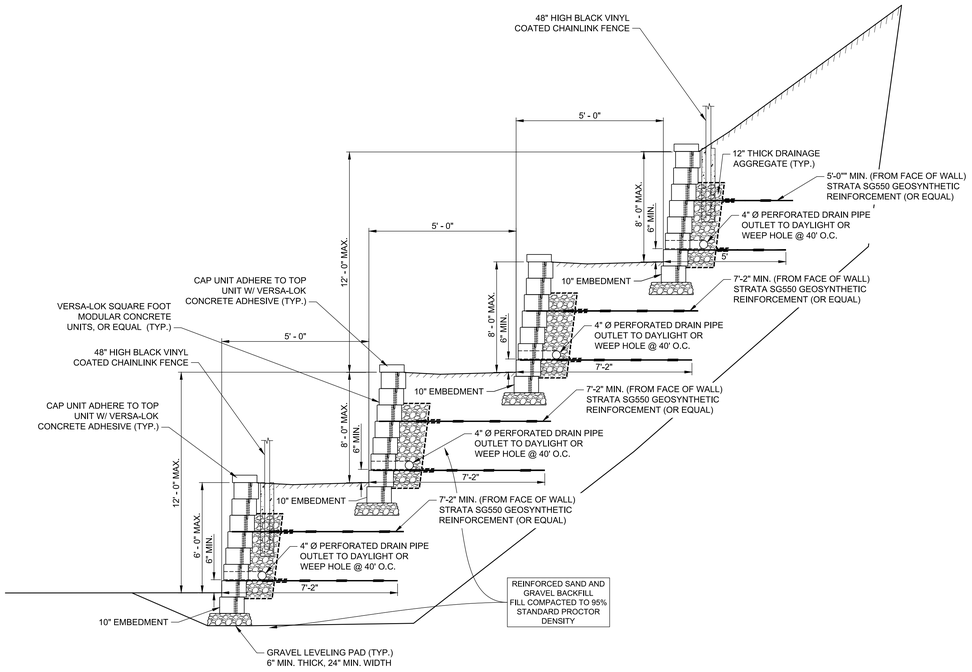
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.1, 3.2, 11, 12, 16, 19 AND P/O 22

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

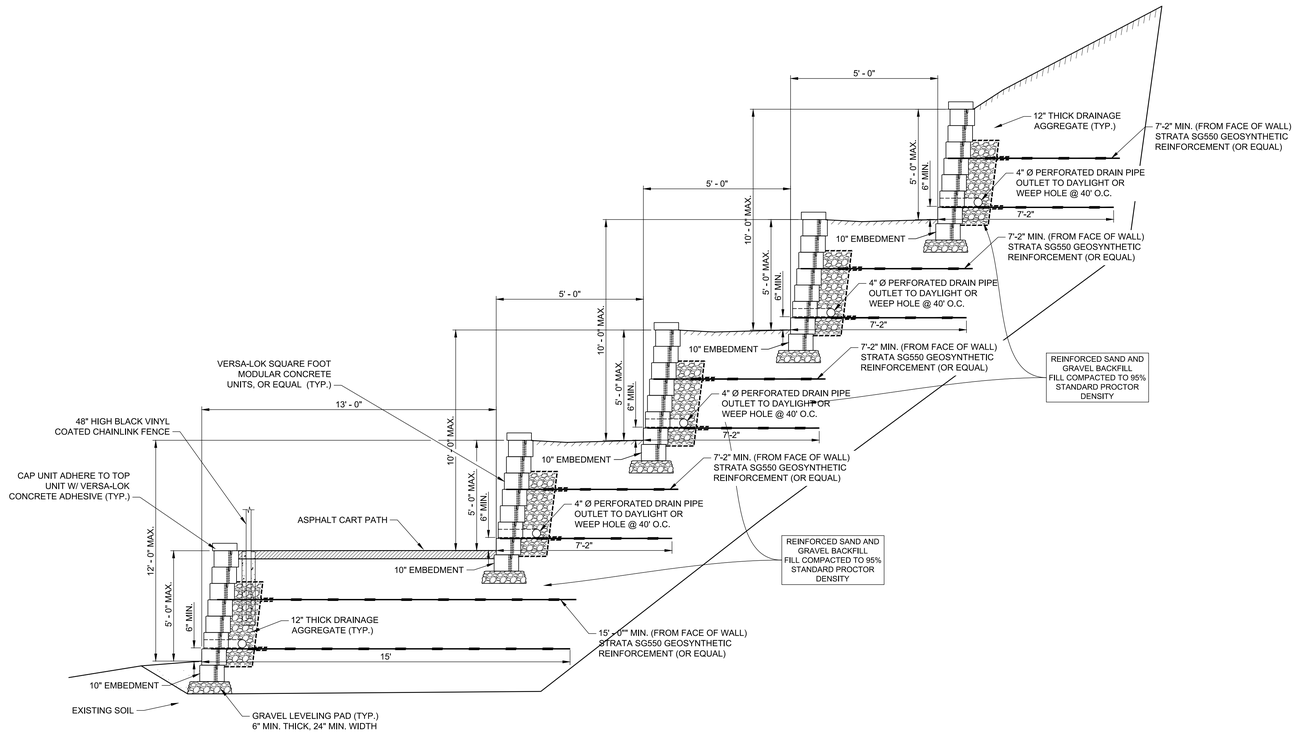
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CHECKED BY:	JM	FILE NO.: 400-014	1"=60'
DATE: DECEMBER, 2017		PROJECT NO.: 86047	

DRAWING NO.: LI - 101
SHEET NO.: 33 OF 45

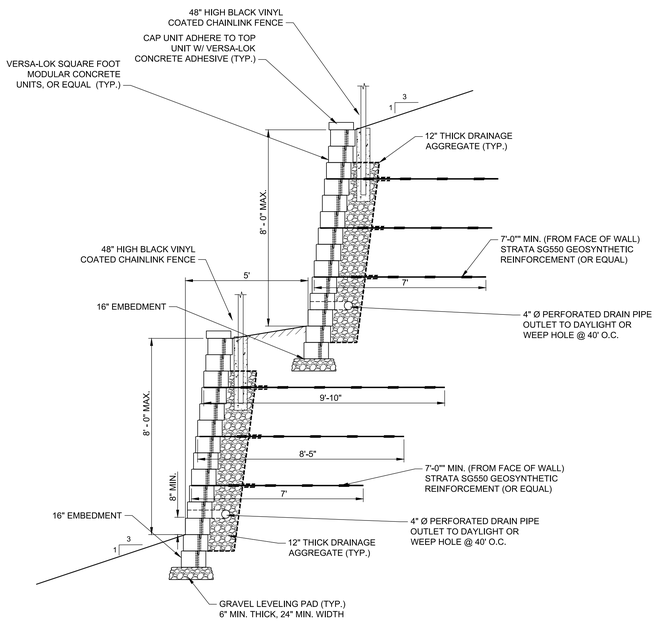
G:\projects\86047\2020\86047 PM 2020.dwg 33 OF 45 - LIGHTING PLAN - NORTH PARCEL - 7/29/2020 7:54:42 AM, DWG To PDF.pc3



TYPYCAL MULTI - TIER RETAINING WALL SECTION



MULTI - TIER RETAINING WALL SECTION WITH GOLF CART PATH



MULTI - TIER RETAINING WALL SECTION WITHIN H.O.A LOT 8

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

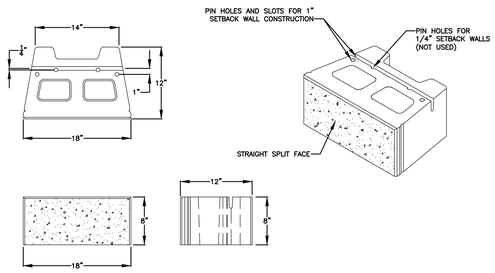
No.	REVISION	DATE
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
2	TOWN PLANNING BOARD FINAL SCOPE ADOPTED ON NOVEMBER 7, 2018 TOWN PLANNING, ENGINEERING,ENVIRONMENTAL DATED 10-02-2018	02-25-2019
1	REVISE LAYOUT	06-15-2018

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
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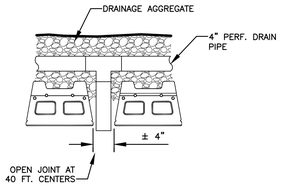
RETAINING WALL SECTIONS
FOR
THE PRESERVE AT INDIAN HILLS
SITUATED AT
NORTHPORT
TOWN OF HUNTINGTON, SUFFOLK COUNTY, NEW YORK
S.C.T.M.: DISTRICT: 0400, SECT. 014, BLK. 04, LOTS 1 AND 2
DISTRICT 0400, SECT. 015, BLK. 01, LOTS 3.1, 3.2, 11, 12, 16, 19 AND P/O 22

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DRAWN BY:	GEO	CADD No.:	86047 PR 2020 DETAILS.DWG	SCALE:	DRAWING NO.:
CHECKED BY:	JM	FILE NO.:	400-014	NONE	C - 504
DATE: DECEMBER, 2017		PROJECT NO.:	86047		SHEET NO.: 38 OF 45

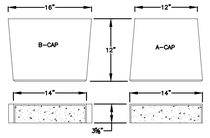


VERSA-LOK SQUARE FOOT UNIT
UNIT DIMENSIONS
SCALE: NONE

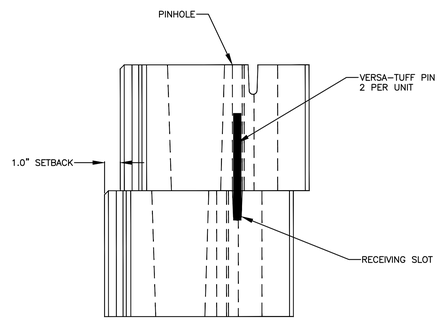


DRAIN DETAIL
SQUARE FOOT UNIT
SCALE: NONE

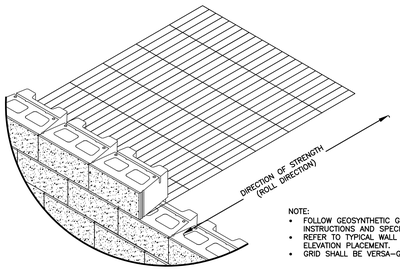
NOTE: PLACE COURSE ABOVE DRAIN PIPE CENTERED OVER PIPE PENETRATION.



VERSA-LOK CAP UNITS
UNIT DIMENSIONS
SCALE: NONE

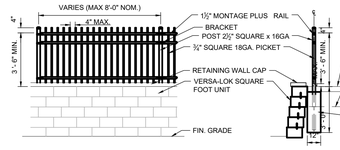


1.0" SETBACK PINNING DETAIL
SQUARE FOOT UNIT-CROSS SECTION
SCALE: NONE

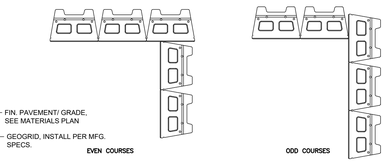


GEOSYNTHETIC INSTALLATION DETAIL
SQUARE FOOT UNIT
SCALE: NONE

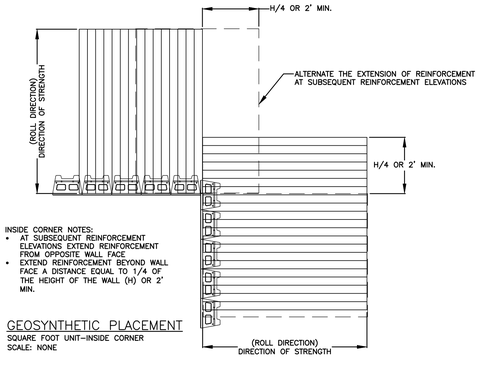
NOTE:
- FOLLOW GEOSYNTHETIC GRID MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS.
- REFER TO TYPICAL WALL SECTIONS FOR GEOGRID LENGTH AND ELEVATION PLACEMENT.
- GRID SHALL BE VERSA-GRID 3.0 OR AN APPROVED EQUAL.



FENCE DETAIL
NOT TO SCALE

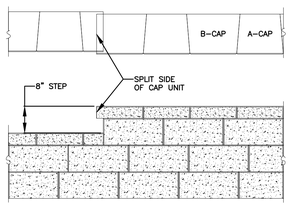


CORNER DETAIL
SQUARE FOOT UNIT-90° INSIDE
SCALE: NONE

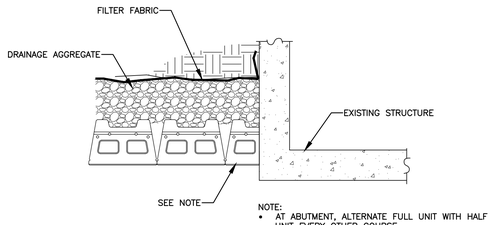


INSIDE CORNER NOTES:
- AT SUBSEQUENT REINFORCEMENT ELEVATIONS EXTEND REINFORCEMENT FROM OPPOSITE WALL FACE
- EXTEND REINFORCEMENT BEYOND WALL FACE A DISTANCE EQUAL TO 1/4 OF THE HEIGHT OF THE WALL (H) OR 2' MIN.

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 MANUFACTURER'S 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 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

FOR TOWN USE

No.	REVISION	DATE
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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

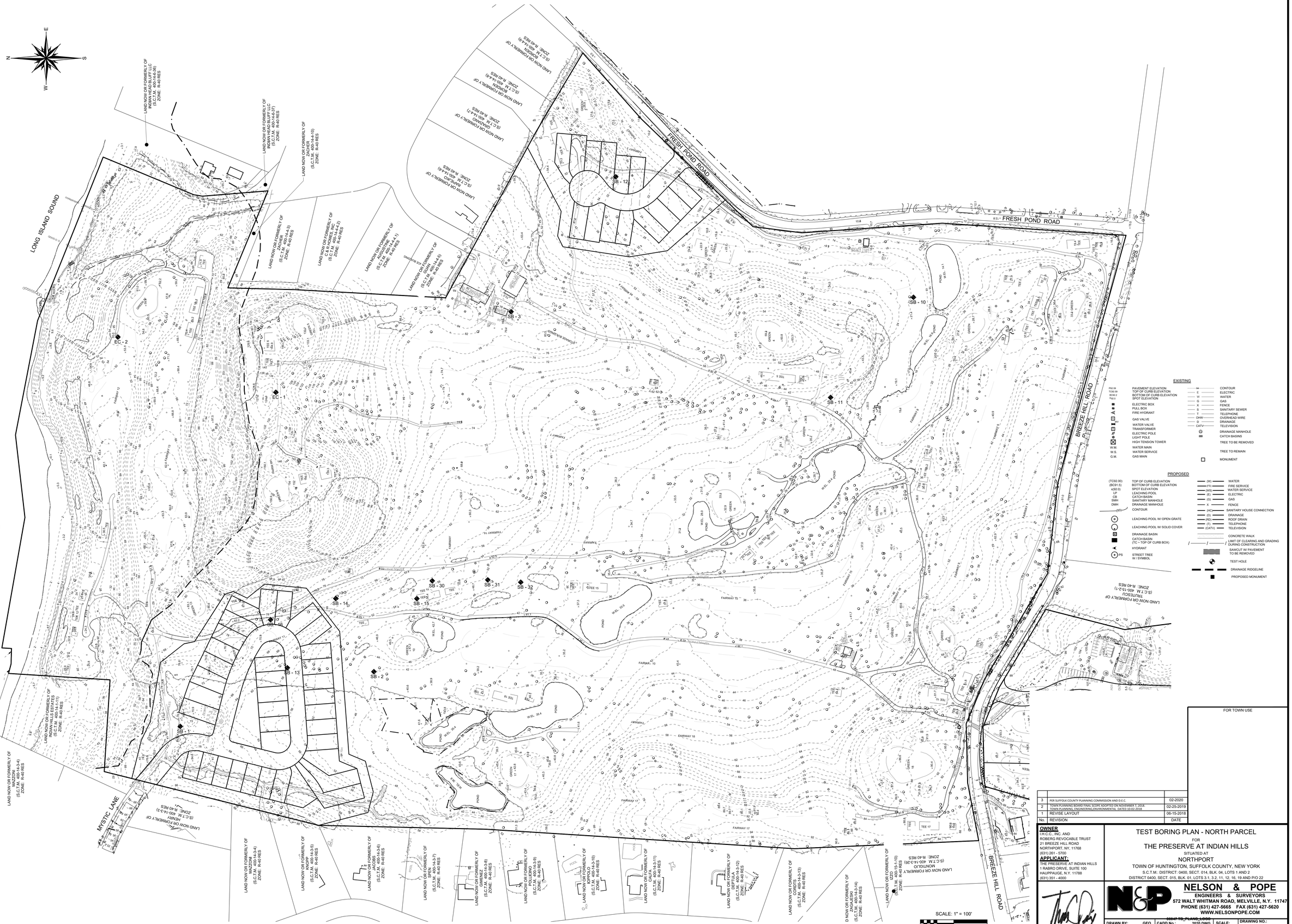
OWNER
I.H.C.C., INC. AND
ROBERO REVOCABLE TRUST
21 BREEZE HILL ROAD
NORTHPORT, NY, 11768
(631) 261 - 5700
APPLICANT:
THE PRESERVE AT INDIAN HILLS
1 RABRO DRIVE, SUITE 100
HAUPPAUGE, N.Y. 11788
(631) 351 - 4000

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 3.1, 3.2, 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	NONE	C - 505
DATE:	DECEMBER, 2017	PROJECT NO.:	86047		SHEET NO.: 39 OF 45

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

P92.59	PAVEMENT ELEVATION	44	CONTOUR
TC92.09	TOP OF CURB ELEVATION	E	ELECTRIC
BC92.2	BOTTOM OF CURB ELEVATION	W	WATER
P92.0	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		
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		SAWCUT W/ PAVEMENT TO BE REMOVED
			TEST HOLE
			DRAINAGE RIDGELINE
			PROPOSED MONUMENT

FOR TOWN USE

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1	REVISE LAYOUT	06-15-2015

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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

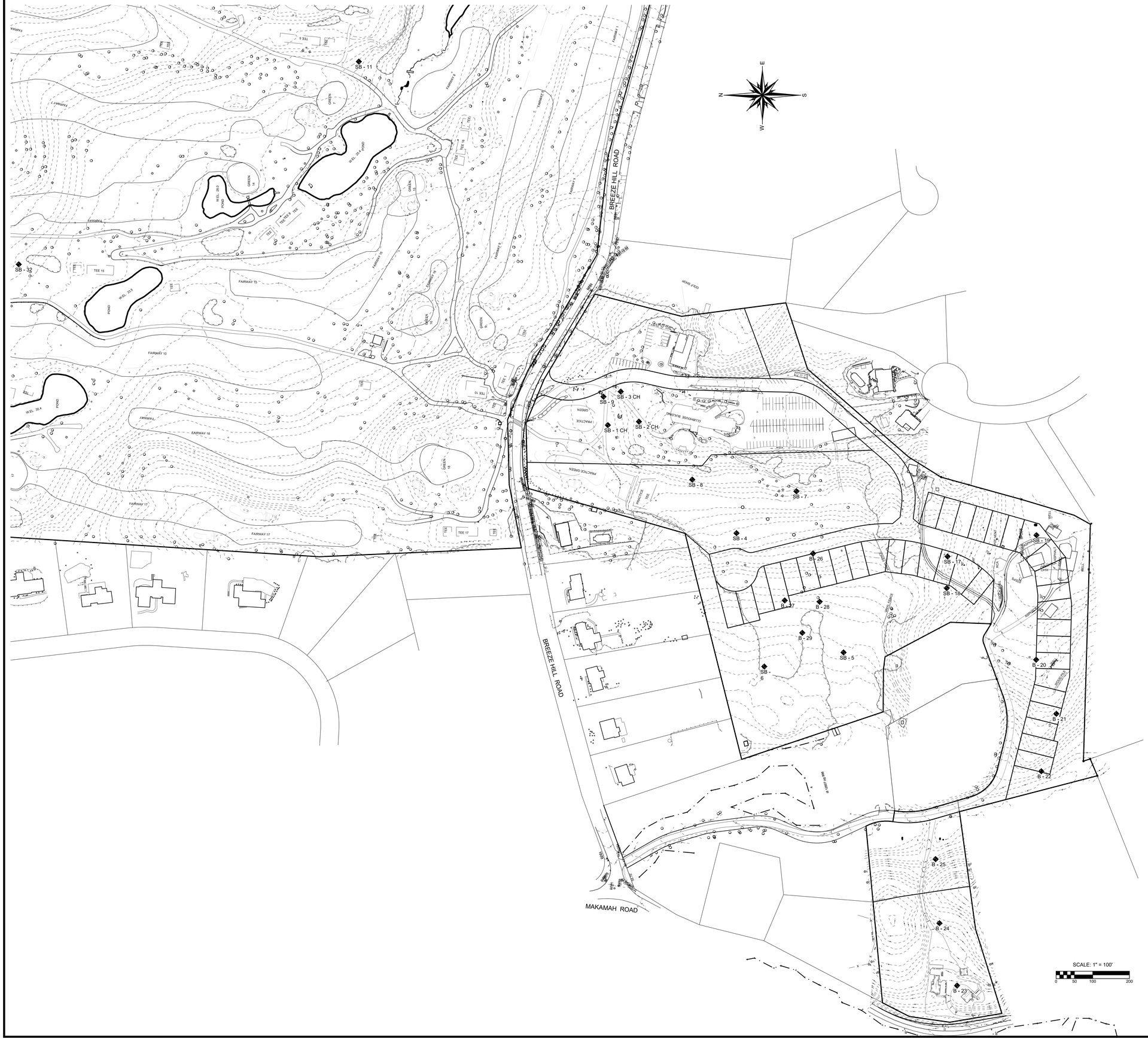
NORTHPORT

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 3.1, 3.2, 11, 12, 16, 19 AND P/O 22

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DATE: DECEMBER, 2017		PROJECT NO.:	86047		SHEET NO.: 41 OF 45



FOR TOWN USE

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1	REVISE LAYOUT	06-15-2018

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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 3.1, 3.2, 11, 12, 16, 19 AND P/O 22

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CHECKED BY:	JM	FILE NO.:	400-014	1"=100'	TB - 102
DATE: DECEMBER, 2017		PROJECT NO.:	86047		SHEET NO.: 42 OF 45

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

SOIL BORING LOG

Page 1 of 2

BORING I.D.	PROJECT NO.	PROJECT NAME
DC-1	East Coast Geoservices# 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	Steve McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
1.5" inch/Hollow Stem Auger	5 inch	Centrally located on Service of the 5th Hole
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD: SAMPLING METHOD
± 124 ft	NA	Safety Sonic Split Spoon
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE: BACKFILL
51 feet	113.00 to 115.00 ft (Perched)	11/09 to 11/10/16 Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
		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.
0	5 to 7	All strong brown clayey silt.	ML	1-1-1-1 (1-3)	NA	0.6 feet recovered
10	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.
15	15 to 17	Top 0.9 feet yellow fine sand. Bottom 0.4 feet reddish yellow clayey silt, traces of mica present.	SP SM	1-2-2-3 (2-1)	NA	1.3 feet recovered Sample submitted for sieve analysis.
20	20 to 22	Top 1.2a 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
25	25 to 27	No sample collected				
30	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.
35	35 to 37	No sample collected				
40	40 to 42	Top 1.3 dat feet strong brown silt Mid 0.5 feet strong brown silty clay. Bottom 0.3 feet strong brown silt.	ML CL ML	6-9-11-15 (9-11)	NA	2.0 feet recovered Sample collected for sieve analysis.
45	45 to 47	No sample collected.				
50						

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info@eastcoastgeoservices.com

SOIL BORING LOG

Page 1 of 2

BORING I.D.	PROJECT NO.	PROJECT NAME
DC-2	East Coast Geoservices# 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	Steve McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
1.5 inch/Hollow Stem Auger	5 inch	Centrally located on Service of the 5th Hole
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD: SAMPLING METHOD
± 124 ft	NA	Safety Sonic Split Spoon
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE: BACKFILL
62 feet	113.00 to 115.00 ft (Perched)	11/09 to 11/10/16 Cuttings

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	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 Sample lost 4 inches of sample not collected due to equipment failure. Perched water encountered. Entire sample wet.
PW	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** **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						
90						
100						
110						

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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
DC-3	East Coast Geoservices# 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	Steve McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
1.5 inch/Hollow Stem Auger	5 inch	Located 20 feet west of diesel exit path on the north side of the 12th hole fairway
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD: SAMPLING METHOD
± 114 ft	NA	Safety Sonic Split Spoon
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE: BACKFILL
42 feet	75 feet bgs (Perched)	11/09 to 11/10/16 Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
		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.
0	3 to 7	All yellow to reddish yellow fine sand, trace silt, trace mica present.	SP	1-2-2-3 (2-2)	NA	1.3 feet recovered
10	10 to 12	All reddish to reddish yellow fine to medium sand.	SW	1-1-0-1 (1-0)	NA	1.0 feet recovered
15	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.
20	20 to 22	All yellowish brown silt.	ML	2-4-6-8 (4-6)	NA	1.0 feet recovered
25	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
30	30 to 32	Top 0.3 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	1.5 feet recovered Sample submitted for sieve analysis.
PW	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.
40	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.
45	45 to 47	No sample collected.				
50						

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BORING I.D.	PROJECT NO.	PROJECT NAME
DC-3	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** **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.
65						
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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
18-1	ECG# 86047	Indian Hills Country Club
LOGGED BY	APPROVED BY	LOCATION
Eric Arnesen	Eric Arnesen	Breeze Hill Road, Northport, New Yorl
DRILLING CONTRACTOR	DRILLER	
East Coast Geoservices, LLC	Steve McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
1.0 inch core barrel/2.5 inch HAS	4 inch	Northwest corner of the property in the temporary storage area
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD: SAMPLING METHOD
NA	NA	Power Probe 9600 Split Spoon
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE: BACKFILL
32 feet	Not Encountered	Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	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 8 to 10	Top 1.0 feet same as above. Bottom 1.0 feet reddish brown clay; All reddish brown clay.	SP CL CL	NA NA NA	NA NA NA	2.0 feet recovered DTW @ ~ 4 feet bgs (perched) 2.0 feet recovered
10	10 to 12	All same as above.	CL	NA	NA	1.0 feet recovered
15	15 to 17	All same as above.	CL	NA	NA	2.0 feet recovered
20	20 to 22	All same as above.	CL	NA	NA	1.5 feet recovered
25	25 to 27	All same as above.	CL	NA	NA	2.0 feet recovered
30	30 to 32	All same as above.	CL	NA	NA	1.5 feet recovered Boring Complete
35						
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BORING I.D.	PROJECT NO.	PROJECT NAME
18-2	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	Steve McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch core barrel/2.5 inch HAS	2 inch/4 inch	East side of the wooded located in the northwest corner of the property.
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD: SAMPLING METHOD
NA	NA	Power Probe 9600 Core Barrel/Split Spoon
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE: BACKFILL
32 feet	Not Encountered	Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	Top 5.0 feet grayish brown silt.	SM	NA	NA	4.0 feet recovered
		Bottom 1.0 feet grayish brown to reddish brown silty sand, trace gravel.				
5	5 to 10	All light brown fine sand, trace gravel.	SP	NA	NA	2.0 feet recovered
10	10 to 12	All same as above.	SP	NA	NA	1.0 feet recovered
15	15 to 17	All reddish brown clayey silt.	SC	NA	NA	2.0 feet recovered
20	20 to 22	All same as above.	SC	NA	NA	1.5 feet recovered
25	25 to 27	All same as above.	SC	NA	NA	2.0 feet recovered
30	30 to 32	All same as above.	SC	NA	NA	1.5 feet recovered Boring Complete
35						
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BORING I.D.	PROJECT NO.	PROJECT NAME
18-3	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	Steve McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
1.0 inch core barrel/2.5 inch HAS	2 inch	West central portion of the driving range
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD: SAMPLING METHOD
NA	NA	Power Probe 9600 Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE: BACKFILL
32 feet	Not Encountered	Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	All brown clayey silt to silty clay.	SC	NA	NA	2.5 feet recovered
5	5 to 10	Top 1.0 feet reddish brown fine sand, trace gravel.	SP	NA	NA	5.0 feet recovered
10	10 to 15	All reddish brown clay.	CL	NA	NA	5.0 feet recovered
15	15 to 20	All same as above.	CL	NA	NA	4.0 feet recovered
20	20 to 25	All same as above.	CL	NA	NA	4.0 feet recovered
25	25 to 30	All same as above.	CL	NA	NA	5.0 feet recovered Boring Complete
30						
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BORING I.D.	PROJECT NO.	PROJECT NAME
18-4	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	Southeast corner of the driving range north of 18-5
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD: SAMPLING METHOD
NA	NA	Power Probe 9600 Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE: BACKFILL
30 feet	Not Encountered	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). Mid 0.5 feet reddish brown silty clay. Bottom 1.5 feet reddish brown silty sand, trace gravel. Bottom 1.5 feet reddish brown silt.	ML CL SM ML	NA	NA	3.0 feet recovered
5	5 to 10	Top 1.5 feet reddish brown silty clay. Mid 1.0 feet reddish brown silty sand, trace gravel. Bottom 3.0 feet reddish brown silty clay.	CL SM CL	NA	NA	4.0 feet recovered
10	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
15	15 to 20	All reddish brown silty clay.	CL	NA	NA	4.5 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						
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BORING I.D.	PROJECT NO.	PROJECT NAME
18-5	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	Southeast corner of the driving range
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD: SAMPLING METHOD
NA	NA	Power Probe 9600 Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE: BACKFILL
30 feet	Not Encountered	Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	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
5	5 to 10	All pale brown fine sand, trace gravel;	SP	NA	NA	4.5 feet recovered
10	10 to 15	All same as above.	SP	NA	NA	4.5 feet recovered
15	15 to 20	All same as above.	SP	NA	NA	4.0 feet recovered
20	20 to 25	No recovery.	SP	NA	NA	No recovery
25	25 to 30	All same as above.	SP	NA	NA	3.0 feet recovered Boring Complete
30						
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BORING I.D.	PROJECT NO.	PROJECT NAME
18-6	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	Steve McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.0 inch core barrel/2.5 inch HAS	2 inch	Northeast corner of the driving range
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD: SAMPLING METHOD
NA	NA	Power Probe 9600 Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE: BACKFILL
32 feet	Not Encountered	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 2.5 feet pale brown silty sand, trace gravel.	ML SM	NA	NA	4.0 feet recovered
5	5 to 10	All pale brown fine sand, trace gravel;	SP	NA	NA	4.5 feet recovered
10	10 to 15	All same as above.	SP	NA	NA	4.5 feet recovered
15	15 to 20	All same as above.	SP	NA	NA	4.0 feet recovered
20	20 to 25	No recovery.	SP	NA	NA	No recovery
25	25 to 30	All same as above.	SP	NA	NA	3.0 feet recovered Boring Complete
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BORING I.D.	PROJECT NO.	PROJECT NAME
18-7	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	Southeast corner of the driving range
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD: SAMPLING METHOD
NA	NA	Power Probe 9600 Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE: BACKFILL
30 feet	Not Encountered	Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	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
5	5 to 10	All pale brown fine sand, trace gravel;	SP	NA	NA	4.5 feet recovered
10	10 to 15	All same as above.	SP	NA	NA	4.5 feet recovered
15	15 to 20	All same as above.	SP	NA	NA	4.0 feet recovered
20	20 to 25	No recovery.	SP	NA	NA	No recovery
25	25 to 30	All same as above.	SP	NA	NA	3.0 feet recovered Boring Complete
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BORING I.D.	PROJECT NO.	PROJECT NAME
18-8	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	Northeast corner of the driving range
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD: SAMPLING METHOD
NA	NA	Power Probe 9600 Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE: BACKFILL
30 feet	Not Encountered	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 2.5 feet pale brown fine sand, trace gravel.	ML SM	NA	NA	4.0 feet recovered
5	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
10	10 to 15	All reddish brown silty to clayey sand, trace gravel.	SC-SM	NA	NA	4.5 feet recovered
15	15 to 20	All reddish brown silty sand, trace gravel;	SM	NA	NA	4.0 feet recovered
20	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
25	25 to 30	No recovery.		NA	NA	No recovery Boring Complete
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BORING I.D.	PROJECT NO.	PROJECT NAME
08-9	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	Steve McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
1.0 inch core barrel/2.5 inch HAS	4 inch	Southwest portion of the Maintenance Yard area
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD: SAMPLING METHOD
NA	NA	Power Probe 9600 Split Spoon
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE: BACKFILL
32 feet	Not Encountered	Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	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	All light brown silt,	ML	NA	NA	1.0 feet recovered
	6 to 8	Top 1.0 feet reddish brown clay;	CL	NA	NA	1.0 feet recovered
10	8 to 10	All reddish brown clay.	CL	NA	NA	1.0 feet recovered
15	10 to 12	All same as above.	CL	NA	NA	1.0 feet recovered
20	12 to 14	All same as above.	CL	NA	NA	1.0 feet recovered
25	14 to 16	All same as above.	CL	NA	NA	1.0 feet recovered
30	16 to 18	All same as above.	CL	NA	NA	1.0 feet recovered Boring Complete
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BORING I.D.	PROJECT NO.	PROJECT NAME
08-10	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 southeastern portion of property.
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD: SAMPLING METHOD
NA	NA	Power Probe 9600 Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE: BACKFILL
32 feet	Not Encountered	Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	All reddish brown sandy silt.	SM	NA	NA	4.0 feet recovered
5	5 to 10	All same as above.	CL	NA	NA	4.0 feet recovered
10	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
15	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
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BORING I.D.	PROJECT NO.	PROJECT NAME
08-11	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	Between holes # 8 & 9
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD: SAMPLING METHOD
NA	NA	Power Probe 9600 Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE: BACKFILL
30 feet	DTW @ ~20 feet bgs	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 brown silty sand, trace gravel.	ML SM	NA	NA	2.5 feet recovered
5	5 to 10	No recovery.		NA	NA	No recovery
10	10 to 15	Top 2.2 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
15	15 to 20	No recovery.		NA	NA	No recovery
20	20 to 25	All brown silty clay. Wet	SC	NA	NA	5.0 feet recovered Water at ~20 feet
25	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
30						
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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
08-12	ECG# 86047	Indian Hills Country Club
LOGGED BY	APPROVED BY	LOCATION
Eric Arnesen	Eric Arnesen	Breeze

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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	West of Hole 11
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD — SAMPLING METHOD
NA	NA	Power Probe 9600 — Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
50 feet	Not Encountered	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 1.0 feet reddish brown silty sand. Bottom 2.5 feet gray clay.	SM CL	NA	NA	3.5 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 DTW @ ~25 feet Boring Complete
30						
35						
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SOIL BORING LOG

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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 — SAMPLING METHOD
NA	NA	Power Probe 9600 — Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
50 feet	Not Encountered	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	3.0 feet recovered
5	5 to 10	Top 1.5 feet reddish brown silt. Bottom 1.5 feet reddish brown clay.	ML CL	NA	NA	3.0 feet recovered
10	10 to 15	All reddish brown silty clay, trace sand.	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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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	2 Breeze Hill Road Northport, New York
DRILLING CONTRACTOR	DRILLER	
East Coast Geoservices, LLC	Jonathan I. 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 — SAMPLING METHOD
NA	NA	Power Probe 9600 — Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
30 feet	N/A	04/12/17 to 04/12/17 — 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
28						
32						
36						
40						
44						
48						

SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-22	86047	Indian Hill Country Club
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	2 Breeze Hill Road Northport, New York
DRILLING CONTRACTOR	DRILLER	
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 — SAMPLING METHOD
NA	NA	Power Probe 9100 — Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
30 feet	N/A	04/12/17 to 04/12/17 — 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						
35						
40						
44						
48						

SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-17	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 18-18
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD — SAMPLING METHOD
NA	NA	Power Probe 9600 — Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
50 feet	Not Encountered	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 1.0 feet pale brown silty sand. Bottom 2.0 feet reddish brown fine sand.	SM SP	NA	NA	3.0 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	3.0 feet recovered. Boring Complete
30						
35						
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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 — SAMPLING METHOD
NA	NA	Power Probe 9600 — Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
50 feet	Not Encountered	Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	All reddish brown silty clay.	CL	NA	NA	3.5 feet recovered
5	5 to 10	All reddish brown fine sand.	SP	NA	NA	3.0 feet recovered
10	10 to 15	All same as above.	SP	NA	NA	4.0 feet recovered
15	15 to 20	All same as above.	SP	NA	NA	4.0 feet recovered
20	20 to 25	All same as above.	SP	NA	NA	4.0 feet recovered
25	25 to 30	All reddish brown silty sand..	SM	NA	NA	3.0 feet recovered. Boring Complete
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35						
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SOIL BORING LOG

Page 1 of 1

BORING I.D.	PROJECT NO.	PROJECT NAME
B-15	86047	Indian Hills Country Club
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	40-42 Makamah Road Fort Salonga, New York
DRILLING CONTRACTOR	DRILLER	
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 on the eastern portion of the 40-42 Makamah Road property.
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD — SAMPLING METHOD
NA	NA	Power Probe 9600 — Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
50 feet	N/A	04/12/17 to 04/12/17 — 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
28						
32						
36						
40						
44						
48						

SOIL BORING LOG

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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 Northport, New York.
DRILLING CONTRACTOR	DRILLER	
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 — SAMPLING METHOD
NA	NA	Power Probe 9600 — Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
50 feet	N/A	04/12/17 to 04/12/17 — 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
28						
32						
36						
40						
44						
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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 Northport, New York
DRILLING CONTRACTOR	DRILLER	
East Coast Geoservices, LLC	Jonathan I. 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 — SAMPLING METHOD
NA	NA	Power Probe 9600 — Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
30 feet	N/A	04/12/17 to 04/12/17 — 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						
35						
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44						
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SOIL BORING LOG

Page 1 of 1

BORING I.D.	PROJECT NO.	PROJECT NAME
B-22	86047	Indian Hill Country Club
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	2 Breeze Hill Road Northport, New York
DRILLING CONTRACTOR	DRILLER	
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 — SAMPLING METHOD
NA	NA	Power Probe 9100 — Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
30 feet	N/A	04/12/17 to 04/12/17 — 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
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35						
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SOIL BORING LOG

Page 1 of 1

BORING I.D.	PROJECT NO.	PROJECT NAME
B-17	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 18-18
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD — SAMPLING METHOD
NA	NA	Power Probe 9600 — Core Barrel
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
50 feet	Not Encountered	Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
0	0 to 5	All reddish brown silty clay.	CL	NA	NA	3.5 feet recovered
5	5 to 10	All reddish brown fine sand.	SP	NA	NA	3.0 feet recovered
10	10 to 15	All same as above.	SP	NA	NA	4.0 feet recovered
15	15 to 20	All same as above.	SP	NA	NA	4.0 feet recovered
20	20 to 25	All same as above.	SP	NA	NA	4.0 feet recovered
25	25 to 30	All reddish brown silty sand..	SM	NA	NA	3.0 feet recovered. Boring Complete
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SOIL BORING LOG

Page 1 of 1

BORING I.D.	PROJECT NO.	PROJECT NAME
B-16	86047	40-42 Makamah Road, Fort Salonga - Soil Borings
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	40-42 Makamah Road Fort Salonga, 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	2.0 inches	Located on the central portion of the 40-42 Makamah Road property.
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD — SAMPLING METHOD
NA	NA	Power Probe 9600 — Plastic Sleeve
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
30 feet	NA	4/6/2018 — 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 1.0' dark brown silty sand Bottom 3.0' fine tan sand	SM SP	NA NA	NA NA	4.0 feet recovered
10	10 to 15	Tan fine sand	SP	NA	NA	5.0 feet recovered
15	15 to 20	Same as above: Water @ ~19 feet	SP	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-19	86047	40-42 Makamah Road, Fort Salonga - Soil Borings
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	40-42 Makamah Road Fort Salonga, 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	2.0 inches	Located on the central portion of the 40-42 Makamah Road property.
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD — SAMPLING METHOD
NA	NA	Power Probe 9600 — Plastic Sleeve
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
30 feet	NA	4/6/2018 — 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 (Top Soil). Bottom 2.5 feet dark brown silty sand.	ML SM	NA NA	NA NA	3.5 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	4.5 feet recovered
20	20 to 25	Tan fine sand	SP	NA	NA	4.0 feet recovered
25	25 to 30	Top 3.0 feet tan fine sand Bottom 1.5 feet tan fine sand, trace silt	SP SP	NA NA	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-26	ECG# 86047	Indian Hills Golf Course
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	2 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 — SAMPLING METHOD
NA	NA	Power Probe 9580-D — Plastic Sleeve
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
30 feet	NA	4/10/2018 — 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-27	ECG# 86047	Indian Hills Golf Course
LOGGED BY	APPROVED BY	LOCATION
Connor Wilkinson	Eric Arnesen	2 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 — SAMPLING METHOD
NA	NA	Power Probe 9580-D — Plastic Sleeve
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE — BACKFILL
30 Feet	NA	4/10/2018 — 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	3.5 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	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
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
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 3.1, 3.2, 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.: 2020.DWG	SCALE: NONE
CHECKED BY:	JM	FILE NO.: 400-014	DRAWING NO.: TB - 104
DATE: DECEMBER, 2017		PROJECT NO.: 86047	SHEET NO.: 44 OF 45

~~86047 TB PLANS.DWG~~

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

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
2.65 inch/Drive Barrel	7.0 inches	Located amidst the tree patch at the base of the driving range.
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD / SAMPLING METHOD
NA	NA	Power Probe 9580-D / Plastic Sleeve
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE / BACKFILL
30 feet	NA	4/10/2018 / Mason sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
	0 to 5	Top 0.5 feet black silty loam. Bottom 1.5 feet dark brown silty sand.	ML SM	NA NA	NA NA	4.0 feet recovered
5						
	5 to 10	Top 0.5 feet dark brown silty sand. Bottom 4.0 feet red clay	SM CH	NA NA	NA NA	4.5 feet recovered
10						
	10 to 15	Red clay	CH	NA	NA	5.0 feet recovered
15						
	15 to 20	Same as above	CH	NA	NA	4.75 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	4.75 feet recovered Boring completed.
30						
35						
40						
45						
50						
55						

East Coast Geoservices, LLC
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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-29 & B-30	ECG# 86047	Indian Hills Golf Course
LOGGED BY	APPROVED BY	LOCATION
Eric Arnesen	Eric Arnesen	Breeze Hill Road
DRILLING CONTRACTOR	DRILLER	Northport, New York
East Coast Geoservices, LLC	Steven J. McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.25 inch/Hollow Stem Auger	9.5 inches	Located south of eastern practice putting green.
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD / SAMPLING METHOD
NA	NA	Power Probe 9600 / Split Spoon
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE / BACKFILL
52 feet	Not Encountered	23-Jul-18 / 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).	ML	1-1-1-1	NA	1.0 feet recovered
	2 to 4	Top 0.5 feet reddish brown fine sand, trace gravel. Top 0.5 feet reddish brown fine sand, trace gravel. Bottom 0.5 feet pale brown fine sand, trace gravel.	SM SP SP	3-4-10-15	NA	1.0 feet recovered
5	4 to 6	All pale brown fine sand, trace gravel.	SP	12-15-14-21	NA	1.0 feet recovered
	6 to 8	All same as above.	SP	WOH-20-20	NA	0.8 feet recovered
	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
10	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	19-26-24-24	NA	1.0 feet recovered
15						
	15 to 17	All pale brown very fine sand, trace gravel.	SP	27-14-14-18	NA	1.2 feet recovered
20						
	20 to 22	All white fine sand.	SP	10-7-7-10	NA	1.0 feet recovered
25						
	25 to 27	All white fine sand, trace gravel.	SP	14-30-20-18	NA	1.0 feet recovered
30						
	30 to 32	All white fine sand.	SP	32-17-20-20	NA	1.0 feet recovered Boring Complete
35						
40						
45						
50						
55						

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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-26 & B-27	ECG# 86047	Indian Hills Country Club
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
4.25 inch/Hollow Stem Auger	7.0 inches	Located on the north side of southern end of access path that leads to west side of clubhouse.
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD / SAMPLING METHOD
NA	NA	Power Probe 9580 / Split Spoon
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE / BACKFILL
52 feet	Not Encountered	23-Jul-18 / Cuttings

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
	0 to 2	All brown silty sand.	SM	WOH for 18	NA	1.0 feet recovered
	2 to 4	All same as above.	SM	1-2-3-5	NA	1.25 feet recovered
5	4 to 6	All same as above.	SM	3-7-9-11	NA	1.25 feet recovered
	6 to 8	All brown fine sand, trace gravel.	SP	7-8-10-10	NA	1.75 feet recovered
	8 to 10	All same as above.	SP	7-7-8-9	NA	1.75 feet recovered
10	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
15	15 to 17	Top 0.3 brown silty sand. Bottom 1.0 feet brown fine sand.	SM SP	3-2-6-9	NA	1.5 feet recovered
20	20 to 22	All brown fine sand.	SP	5-7-8-8	NA	1.75 feet recovered
25	25 to 27	Top 0.25 feet brown silty sand. Bottom 1.75 feet brown fine sand.	SM SP	9-10-9-12	NA	2.0 feet recovered
30	30 to 32	All brown fine to medium sand, trace gravel.	SW	13-17-17-18	NA	1.75 feet recovered
35	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
40	40 to 42	All brown fine sand.	SP	8-9-12-14	NA	1.5 feet recovered
45	45 to 47	All same as above.	SP	13-14-21-27	NA	2.0 feet recovered
50	50 to 52	All brown fine to medium sand, trace gravel.	SW	12-16-20-22	NA	2.0 feet recovered Boring Complete
55						

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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-25 & B-24	ECG# 86047	Indian Hills Country Club
LOGGED BY	APPROVED BY	LOCATION
Eric Arnesen	Eric Arnesen	Breeze Hill Road
DRILLING CONTRACTOR	DRILLER	Northport, New York
East Coast Geoservices, LLC	Steven J. McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.25 inch/Hollow Stem Auger	9.5 inches	Located on the south side of northern end of access path that leads to west side of clubhouse.
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD / SAMPLING METHOD
NA	NA	Power Probe 9600 / Split Spoon
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE / BACKFILL
32 feet	Not Encountered	23-Jul-18 / 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	1-2-4-8	NA	1.0 feet recovered
5	4 to 6	Top 1.5 feet reddish brown fine sand, trace gravel; Mid 2.1 feet brown	SP, SM	11-17-22-22	NA	1.2 feet recovered
	6 to 8	sandy silt, trace gravel; Bottom 0.5 feet brown fine sand, trace gravel. All pale brown fine sand, trace gravel.	SP SP	20-20-19-18	NA	1.5 feet recovered
	8 to 10	All pale brown silty sand, trace gravel.	SM	16-16-19-17	NA	1.0 feet recovered
10	10 to 12	All same as above.	SM	17-20-20-26	NA	1.0 feet recovered
15	15 to 17	All light brown fine sand, trace gravel.	SP	9-12-13-14	NA	1.0 feet recovered
20	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
25	25 to 27	All light brown fine to medium sand, trace gravel.	SW	9-13-16-18	NA	0.8 feet recovered
30	30 to 32	No recovery.		11-10-17-17	NA	0.0 feet recovered Boring Complete
35						
40						
45						
50						
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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-23	ECG# 86047	Indian Hills Golf Course
LOGGED BY	APPROVED BY	LOCATION
Eric C. Arnesen, PG	Eric C. Arnesen, PG	Breeze Hill Road
DRILLING CONTRACTOR	DRILLER	Northport, New York
East Coast Geoservices, LLC	Jonathan McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.65 inch/Core Barrel	2.0 inches	Located between the 7th and 14th fairways centrally located within proposed recharge basin.
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD / SAMPLING METHOD
NA	NA	Power Probe 9585-D / Plastic Sleeve
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE / BACKFILL
45 feet	NA	1/22/2019 / Mason sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
	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
5						
	5 to 10	Top 1.0 reddish brown silty sand. Bottom 3.0 brown clay.	SP CL	NA	NA	4.0 feet recovered
10						
	10 to 15	All brown clay.	CL	NA	NA	4.5 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
30						
	30 to 35	All same as above.	CL	NA	NA	5.0 feet recovered
35						
	35 to 40	All same as above.	CL	NA	NA	5.0 feet recovered
40						
	40 to 45	All same as above.	CL	NA	NA	5.0 feet recovered
45						
	45 to 50	All same as above.	CL	NA	NA	5.0 feet recovered Boring Complete
50						
55						

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SOIL BORING LOG

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BORING I.D.	PROJECT NO.	PROJECT NAME
B-22	ECG# 86047	Indian Hills Golf Course
LOGGED BY	APPROVED BY	LOCATION
Eric C. Arnesen, PG	Eric C. Arnesen, PG	Breeze Hill Road
DRILLING CONTRACTOR	DRILLER	Northport, New York
East Coast Geoservices, LLC	Jonathan McGinn	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	BORING LOCATION DESCRIPTION
2.65 inch/Core Barrel	2.0 inches	Located between the 7th and 14th fairways in the southern end of proposed recharge basin.
LAND SURFACE ELEVATION	COORDINATES	DRILLING EQUIPMENT/METHOD / SAMPLING METHOD
NA	NA	Power Probe 9585-D / Plastic Sleeve
DEPTH OF BORING	DEPTH TO WATER	START/FINISH DATE / BACKFILL
60 feet	NA	1/22/2019 / Mason sand

Sample Depth (feet)	Sample Interval (feet)	Visual Description	Group Symbol	Blow Counts	PID (ppm)	Remarks
	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
5						
	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
10						
	10 to 15	All reddish brown fine sand, trace gravel.	SP	NA	NA	4.0 feet recovered
15						
	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
20						
	20 to 25	All brown clay.	CL	NA	NA	5.0 feet recovered
25						
	25 to 30	Top 1.0 feet same as above/ Mid 2.3 feet pale brown fine sand, trace gravel. Bottom 0.5 feet brown clay.	CL SP CL	NA	NA	4.0 feet recovered
30						
	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
35						
	35 to 40	All brown clay.	CL	NA	NA	5.0 feet recovered Boring Complete
40						
45						
50						
55						

FOR TOWN USE

No.	REVISION	DATE
3	PER SUFFOLK COUNTY PLANNING COMMISSION AND D.E.C.	02-2020
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
ROBERO 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 3.1, 3.2, 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

~~MAP TO PLANS.DGN~~

DRAWN BY: GEO	CADD No.: 2020.DWG	SCALE: NONE	DRAWING NO.: TB - 105
CHECKED BY: JM	FILE NO.: 400-014		SHEET NO.: 45 OF 45
DATE: DECEMBER, 2017	PROJECT NO.: 86047		