

APPENDIX H

DRAINAGE DESIGN:

DRAINAGE AREA 1 (NORTH OF THE INN):
 PARTIAL ROOF OF SANITARY SYSTEM ENCLOSURE: 229 CF
 PARTIAL PORTION OF INN LEACHING TANK (PROPOSED): 985 CF
 VESTIBULE AREA: 2,700 SF X 0.2 X 2' = 1,080 CF
 TOTAL: 1,444 CF

DRAINAGE AREA 2 (SOUTH OF SANITARY SYSTEM ENCLOSURE):
 PAVED AREA: 7,900 SF X 1.0 X 2' = 1,580 CF
 VESTIBULE AREA: 1,500 SF X 0.2 X 2' = 300 CF
 TOTAL: 1,880 CF

DRAINAGE AREA 3 (NORTH OF SPA BUILDING):
 PAVED AREA: 13,100 SF X 1.0 X 2' = 2,620 CF
 VESTIBULE AREA: 12,700 SF X 0.2 X 2' = 2,540 CF
 TOTAL: 5,160 CF

DRAINAGE AREA 4 (NORTH PARKING AREA AND DRIVEWAY):
 PAVED DRIVEWAY FOR FUTURE SPACES (PROPOSED): 14,800 SF X 1.0 X 2' = 2,960 CF
 VESTIBULE AREA: 12,100 SF X 0.2 X 2' = 2,420 CF
 TOTAL: 5,380 CF

USE 1 LEACH, POOLS, EA. 10' DIA. X 9' DEEP: 1,444 CF
USE 2 LEACH, POOLS, EA. 10' DIA. X 9' DEEP: 1,880 CF
USE 3 LEACH, POOLS, EA. 10' DIA. X 9' DEEP: 1,847 CF
USE 4 LEACH, POOLS, EA. 10' DIA. X 11' DEEP: 3,010 CF

DRY WELLS FOR ROOF RUNOFF:

D.M. #1 & #2 (SOUTH PORTION OF INN):
 ROOF AREA: 3,800 SF X 1.0 X 2' = 760 CF
 USE 2 DRY WELLS, EACH 8' DIA. X 6' DEEP: 676 CF

D.M. #3 (RENOVATED BARN (GNV)):
 ENTIRE ROOF AREA: 1,150 SF X 1.0 X 2' = 230 CF
 USE 1 DRY WELL, 8' DIAMETER X 6' DEEP: 192 CF

D.M. #4 & #5 (PROPOSED SPA AND COVERED WALK):
 ENTIRE ROOF AREA: 2,950 SF X 1.0 X 2' = 590 CF
 USE 2 LEACHING POOLS, EA. 8' DIA. X 6' DEEP: 507 CF

D.M. #6 & #8 (N. OF COTTAGE C OR 5, OF COTTAGE P1, OF 1/2 ROOF AREA):
 940 SF X 1.0 X 2' = 188 CF
 USE 1 DRY WELL, 8' DIAMETER X 3' DEEP: 127 CF

D.M. #7 (BARNYARD COTTAGES):
 1/2 ROOF OF 2 BLDGS: 280 SF X 1.0 X 2' = 56 CF
 USE 4 DRY WELLS, 8' DIAMETER X 6' DEEP: 283 CF

USE 1 DRY WELL, 8' DIAMETER X 3' DEEP: 127 CF
USE 2 LEACHING POOLS, EA. 8' DIA. X 6' DEEP: 507 CF
USE 1 DRY WELL, 8' DIAMETER X 3' DEEP: 127 CF

TEST HOLE DATA

NO	DEPTH	SOIL TYPE
1	4.0' - 4.2' - 4.4'	DARK BROWN CLAY
3		BROWN SILT
17		PALE BROWN SILT WITH WESTERN SAND

LEGEND

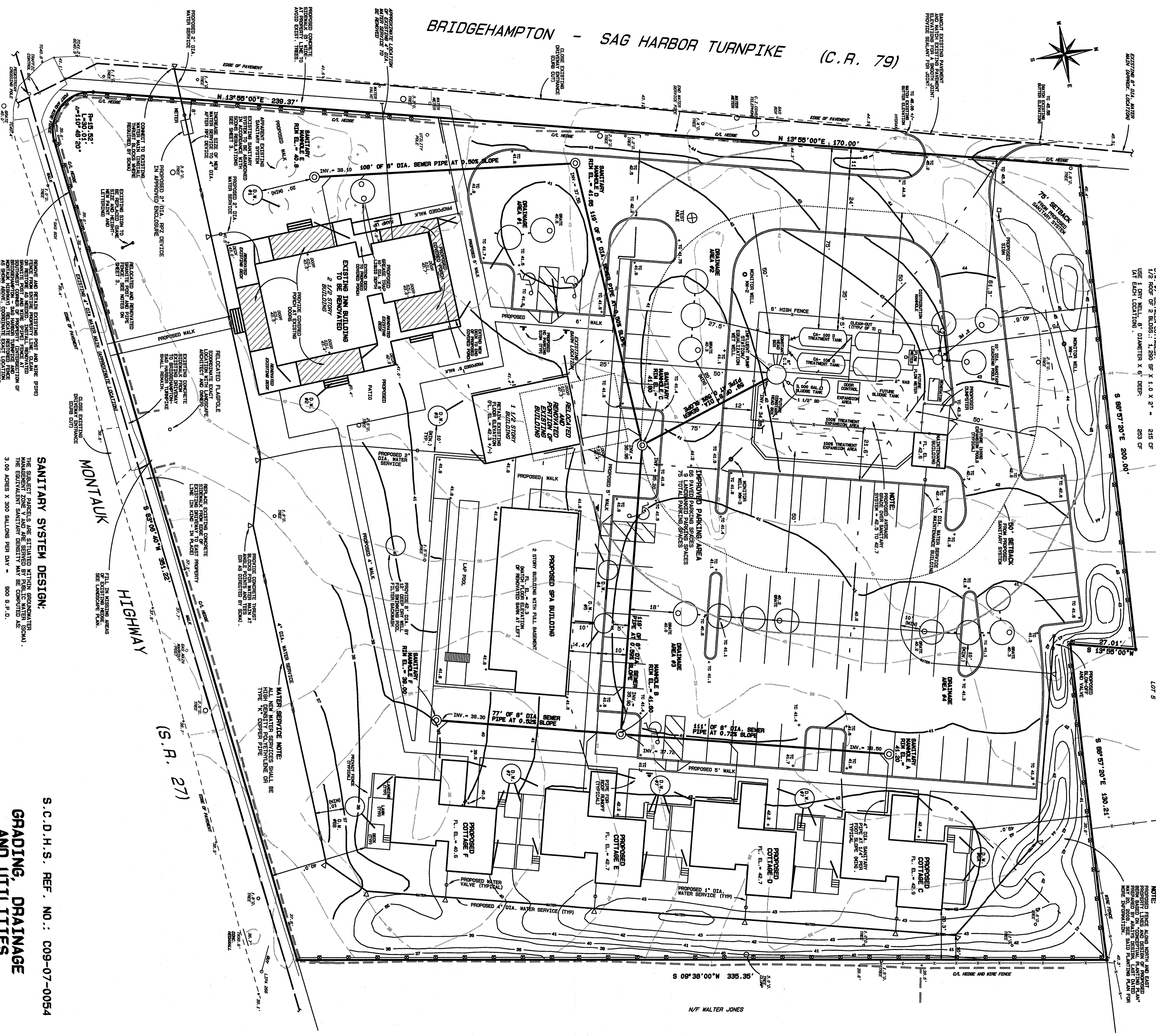
- 41 — EXISTING CONTOURS
- 41.1 — PROPOSED CONTOURS
- 41.1 — EXISTING SPOT ELEVATION
- 41.1 — PROPOSED SPOT GRADE
- 41.1 — TRIANGULAR AREA BOUNDARY
- 41.1 — PROPOSED SIGN "HANDICAP PARKING" (AT 4 LOCATIONS)

NOTE:
 THERE ARE NO KNOWN WELLS WITHIN 150' OF THE SUBJECT PARCELS.



NOTE:
 PROPOSED FINISH FLOOR HEIGHTS HAVE BEEN BASED ON CONVENTIONAL FINISHING PLANTING PLAN FOR 20' BOLD LINE. SEE SAID FINISHING PLAN FOR MORE INFORMATION.

BRIDGEHAMPTON - SAG HARBOR TURNPIKE (C.R. 79)



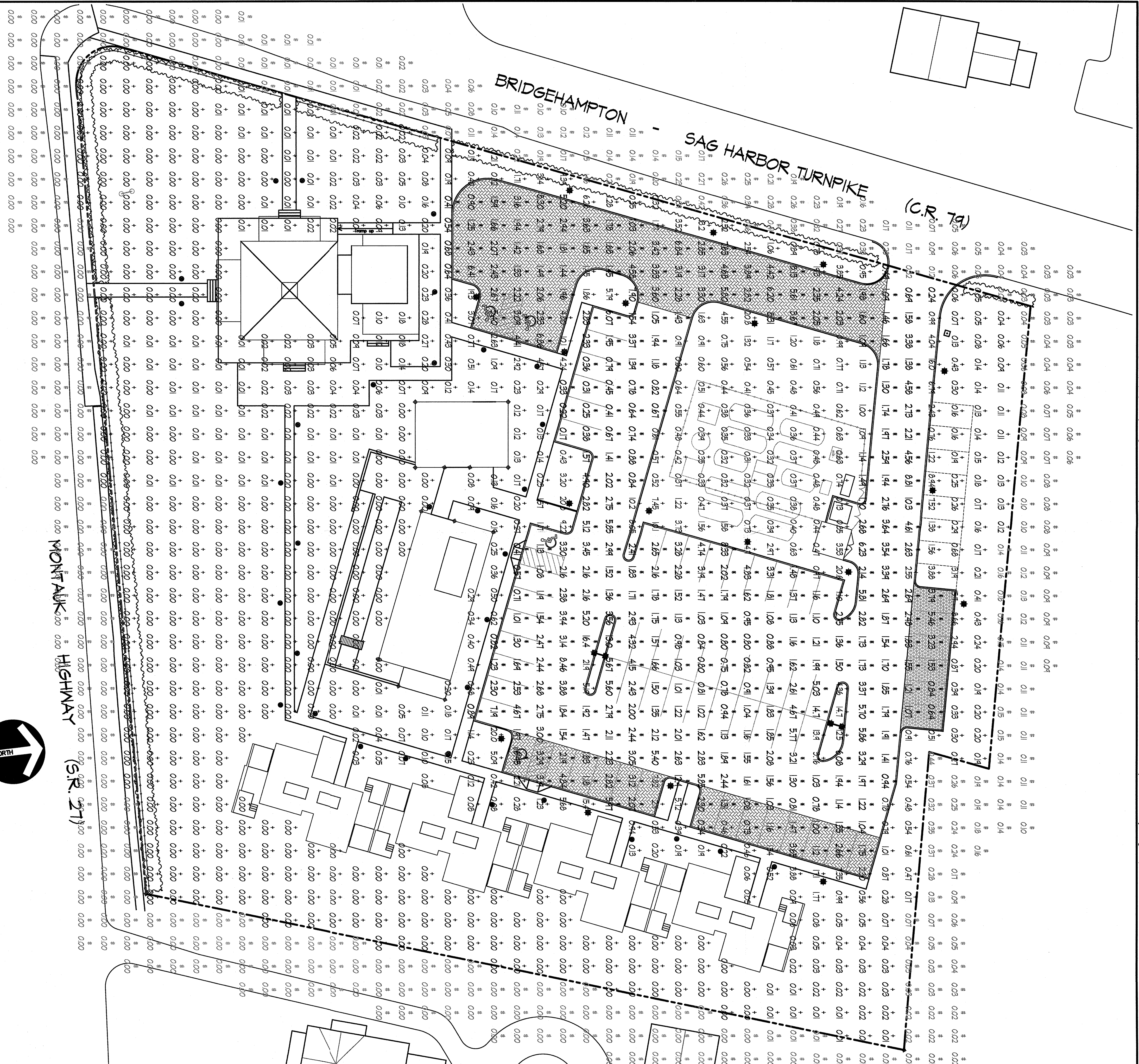
PREPARED: AUGUST 7, 2007
REVISIONS:
 AUGUST 10, 2007 (SAN. DESIGN)
 AUGUST 22, 2007
 AUGUST 23, 2007 (SANITARY)
 AUGUST 24, 2007
 OCTOBER 6, 2007 (SAN. DESIGN)
 NOVEMBER 24, 2007
 DECEMBER 5, 2007
 FEBRUARY 1, 2008 (SAN. SYSTEM FEATURES)
 MARCH 21, 2008 (BUILDINGS)
 APRIL 23, 2008 (NOTES & WALLS)
 JUNE 5, 2008 (WELLS)
 JUNE 11, 2008 (NOTES)
 JANUARY 15, 2009 (SIGNS, PARKING)
 AUGUST 11, 2009 (SAN. PIPING)

RELOCATED AND RENOVATED EXISTING SANITARY SYSTEM:
 RELOCATED AND RENOVATED EXISTING SANITARY SYSTEM WITH 10" DIA. WATER MAIN AND 12" DIA. SEWER MAIN. SEE LANSBURE PLAN FOR DETAILS.

SANITARY SYSTEM DESIGN:
 THE SUBJECT PARCELS ARE SITUATED WITHIN GROUNDWATER MANAGEMENT ZONE AND ARE SERVED BY PUBLIC WATER (SCWA). THE EXISTING SANITARY SYSTEM IS AS FOLLOWS:
 3.00 ACRES X 300 BALLONS PER DAY = 900 G.P.D.
 RENOVATED INN:
 RESTAURANT: 66 SEATS X 10 GPD (S) = 660 GPD
 66 SEATS X 20 GPD (L) = 1,320 GPD
 COCKTAIL BAR: 10 SEATS X 10 GPD (L) = 100 GPD
 LOADING (OVER 400 SF): 7 ROOMS X 150 GPD = 1,050 GPD
 TOTAL SANITARY WASTE FOR RENOVATED INN: 1,790 GPD
 TOTAL KITCHEN FLOW: 1,450 GPD
 TOTAL SANITARY FLOW FOR PROJECT: 7,476 GPD
 RENOVATED BARN AND PROPOSED SPA:
 SPA, STUDIO AND SPA: 5,796 SF X 30 GPD = 2,038 GPD
 LOADING (OVER 400 SF): 3 ROOMS X 150 GPD = 450 GPD
 TOTAL FOR SPA: 2,488 GPD
 PROPOSED COTTAGES:
 LOADING (OVER 400 SF): 3 ROOMS X 150 GPD = 450 GPD
 TOTAL FOR 4 COTTAGES X 450 GPD EACH = 1,800 GPD
 MAINTENANCE BUILDING: 198 SF X 0.4 GPD = 8.0 GPD
 TOTAL SANITARY FLOW: 5,056 GPD
 TOTAL KITCHEN FLOW: 1,450 GPD
 TOTAL SANITARY FLOW FOR PROJECT: 7,476 GPD

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BRIDGEHAMPTON
THE ORCHARD AT
BULLS HEAD INN
SITUATE
TOWN OF SOUTHAMPTON
SUFFOLK COUNTY, N.Y.
 TYP. MAP NO.: 090-071-00-03-00-007-000 & 009-000
 SCALE: 1" = 20'



LOUIS POULSEN TOLBOD 11.4" POST LIGHT CALCULATIONS

CALCULATION SUMMARY						
AREA NAME	DIMENSIONS	GRID NAME	AVE			
Bill's Head	Property Dimensions	Lighting Calc	2.6			
			MAX			
			MIN			
			MAX/MIN AVE/MIN			
			6.4	0.2	90.6	15.5

LUMINAIRE SCHEDULE			
TYPE	SYMBOL	DESCRIPTION	LAMP
L	■	LOUIS POULSEN LIGHTING (1) TOLBOD 11.4" POST BRUSH/BRASS/HEAD	H8 DISTRIBUTION
			LUMENS
			14,400
			10' LOUIS POULSEN POLE
			100
			QTY
			22

NOTE:
 -LIGHTS ARE ADJUSTED EACH WINTER AND SUMMER SOLSTICES.
 -LIGHTS WILL AUTOMATICALLY TURN ON APPROXIMATELY AROUND SUNSET.
 -LIGHTS WILL TURN TO 50% POWER 1 HOUR AFTER RESTAURANT CLOSING AND REMAIN ON UNTIL DAWN.
 -BOLLARD PHOTOMETRICS NOT COUNTED TOWARDS PARKING PHOTOMETRIC REQUIREMENTS.
 -PHOTOMETRICS BASED ON FLAT SITE. EXISTING HEDGING AND PROPOSED BERMS TO BUFFER FROM EXCESSIVE LIGHTING AT PROPERTY LINES.
 -LOWEST MATTAGE BULBS USED TO ACHIEVE LIGHT LEVEL REQUIREMENTS.

NOTES:
 -LOWEST MATTAGE BULBS USED TO ACHIEVE LIGHT LEVEL REQUIREMENTS.
 -S.C.T.N. # 900-71-3-7 & 8

THIS PLAN HAS BEEN PREPARED FROM A SURVEY
 FILED IN THE CLERK'S OFFICE OF THE
 SURVEYORS' WATER MILL, N.Y. PREPARED ON
 AUGUST 7, 2007. LATEST REV. FEBRUARY 1, 2009,
 A 2007 GOOGLE EARTH AERIAL AND FIELD WORK
 BY ARAYS' DESIGN ON JUNE 29, 2007.

THIS PLAN IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.

AREA = 130,909 S.F.
 3.0 ACRES

OWNER: TIACO LLC
 270 PARK AVENUE, 21ST FLOOR
 NEW YORK, NY 10017

DATE	NOTES
06/16/08	NOTES ADDITION
05/20/08	ADDED TITING SCHEDULE
04/22/08	ADDED FIXTURES TO PLAN
INT	

No.	Description	DATE
1	TIMOTHY A. RUMPH, R.L.A.	N.Y.S. LIC. NO. 052
	Designer	

ARAYS DESIGN
 LANDSCAPE ARCHITECTS
 100 WEST STREET
 BRIDGEHAMPTON, NY 11934
 (609) 263-1977 (fax)
 info@araysdesign.com

Drawing Title
LIGHTING PLAN

Project
THE ORCHARD AT BULLS HEAD

Job No.
 BULLS HEAD
 Date: 05/14/08
 Scale: 1"=20'
 Dwn. By: EYM ZTC
 Chd. By: TAR
 Drawing No.
L-1

