

FOR S.C.D.H.S. USE ONLY

GRADE EL.: ±35.3'		
3.8'	SILT LOAM (ML)	EL. 31.5'
4.5'	SANDY LOAM WITH GRAVEL (SM)	EL. 27.0'
8.7'	MIXED SAND WITH GRAVEL (SP)	EL. 18.3'

TEST HOLE #1

DUG BY SHAWN M. BARRON, M.S., ON APRIL 30, 2021
(NO C.W. ENCOUNTERED)

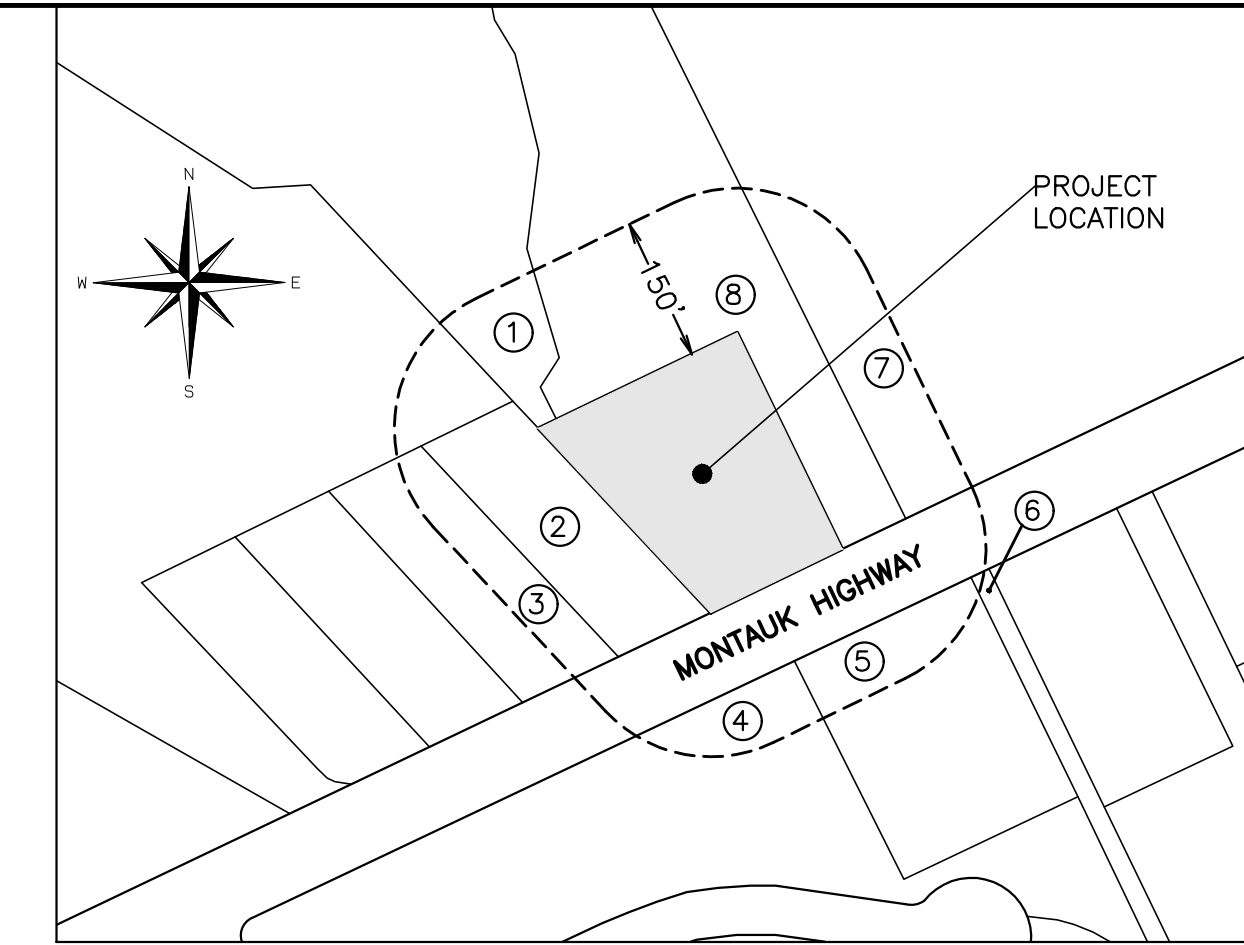
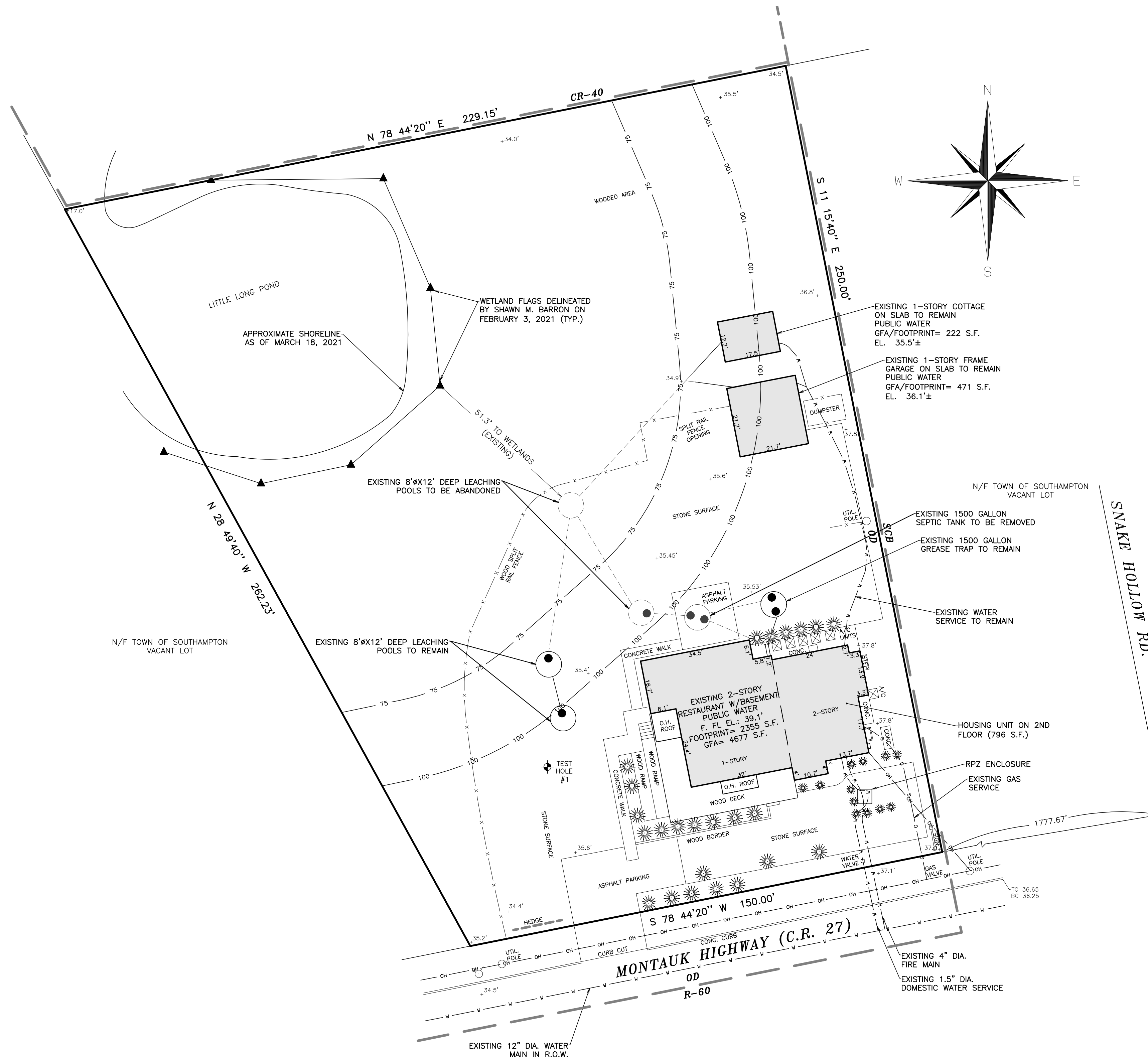
HIGHEST EXPECT GROUNDWATER ELEV.: 9.6' FROM SURVEY OF NEARBY PARCEL

OWNER:
SUSAN'S ILLUSION LLC
141 PRINCE STREET
NEW YORK, NY 10012

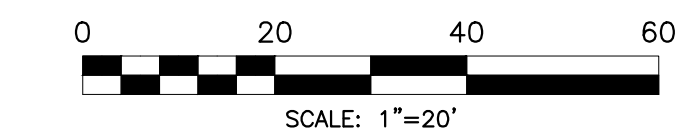
SITE DATA:
SITE ADDRESS: 1970 MONTAUK HIGHWAY
BRIDGEHAMPTON, N.Y. 11932
LOT AREA: 47,395 S.F. (1.088 ACRES)
POSTAL DISTRICT: BRIDGEHAMPTON
SCHOOL DISTRICT: SOUTHAMPTON UFSD
FIRE DISTRICT: BRIDGEHAMPTON
ZONING DISTRICT: OD

NOTES

1. ZONING DISTRICT: OFFICE DISTRICT
2. THE SUBJECT PROPERTY IS IN GROUNDWATER ZONE V.
3. THE SUBJECT PROPERTY IS LOCATED WITHIN A AGRICULTURAL OVERLAY DISTRICT.
4. ALL IMPROVED LOTS WITHIN 150 FEET OF THE SUBJECT PROPERTY ARE CONNECTED TO PUBLIC WATER.
5. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
6. THE SITE FEATURES AND CONDITIONS AS SHOWN ARE BASED UPON THE SURVEY OF THE PROPERTY PREPARED BY WILLIAM R. SIMMONS III, L.S.P.C., LAST DATED MARCH 18, 2021.



NO.	N/F	USE	WATER SUPPLY
1.	TOWN OF SOUTHAMPTON	POND	N/A
2.	TOWN OF SOUTHAMPTON	VACANT	N/A
3.	CHRIS MEAD	VACANT	N/A
4.	KELLIS POND HOMEOWNERS ASSOCIATION INC.	VACANT	N/A
5.	KATHLEEN MILLER	RESIDENCE	PUBLIC WATER
6.	BARBARA TRACHTENBERG	RESIDENCE	PUBLIC WATER
7.	EAST END OPERATING CORP REAL ESTATE GROUP LLC	RETAIL OUTLET	PUBLIC WATER
8.	TOWN OF SOUTHAMPTON	VACANT	N/A



DATE	BY	DESCRIPTION	APPRVD
04/14/2022	RCW	TOS GRANT APPLICATION	VAG
01/07/2022	RCW	WETLANDS APPLICATION	VAG
12/23/2021	RCW	PER SCDHS COMMENTS DATED 09/16/2021	VAG

LE QUIGNON, INC.
1970 MONTAUK HIGHWAY, P.O. BOX 1415
BRIDGEHAMPTON, N.Y. 11932

SANITARY IMPROVEMENT PROJECT
1970 MONTAUK HIGHWAY, BRIDGEHAMPTON, N.Y. 11932
SCTM NO.: 0900-083-00-01-00-024-000

EXISTING CONDITIONS & DEMOLITION PLAN

THE RAYNOR GROUP, P.E. & L.S. PLLC
SURVEYORS CIVIL ENGINEERS SITE PLANNERS
DEERFIELD GREEN WATER MILL, NY 11976 P.O. BOX 720 (631)726-7600

DESIGNED BY: VAG	SCALE: 1" = 20'	DWG. NO.
DRAWN BY: RCW	DATE: 08/05/2021	C-1
APPROVED BY: VAG	FILE NO.: 3564	

VINCENT A. GALDIELLO
PROFESSIONAL ENGINEER NO. 072544

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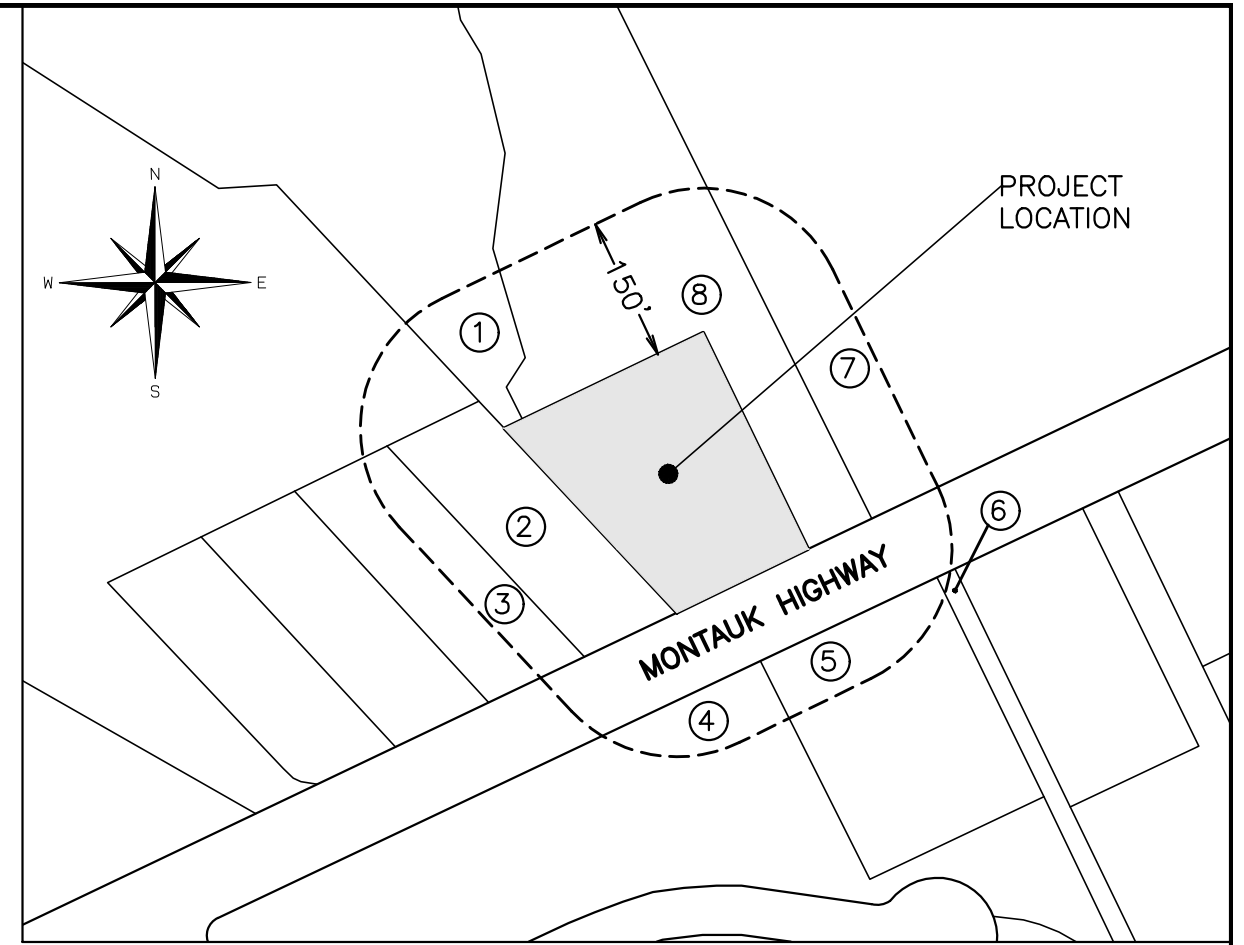
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- NOTES**
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 - THE SUBJECT PROPERTY IS IN GROUNDWATER ZONE V.
 - THE SUBJECT PROPERTY IS LOCATED WITHIN A AGRICULTURAL OVERLAY DISTRICT.
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 - ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 - THE SITE FEATURES AND CONDITIONS AS SHOWN ARE BASED UPON THE SURVEY OF THE PROPERTY PREPARED BY WILLIAM R. SIMMONS III, L.S.P.C., LAST DATED MARCH 18, 2021.



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SANITARY SEWER DESIGN FLOW CALCULATIONS

1. CALCULATION METHOD (POPULATION DENSITY EQUIVALENT)

THE SUBJECT PROPERTY IS 1.088 ACRES IN SIZE, LOCATED WITHIN A HYDROGEOLOGIC GROUNDWATER MANAGEMENT ZONE V AND IS SERVED BY PUBLIC WATER. THE ADJUSTED GROSS LOT AREA IS 0.908 ACRES. THE POPULATION DENSITY EQUIVALENT FOR THE SUBJECT PROPERTY MAY BE CALCULATED AS FOLLOWS:

POPULATION DENSITY EQUIVALENT = 0.908 ACRES X 300 GPD/ACRE = 272.4 GPD

2. EXISTING/PROPOSED DESIGN FLOW CALCULATIONS

BASED ON THE CURRENT DESIGN STANDARDS OF THE SUFFOLK COUNTY SANITARY CODE AND THE EXISTING BUILDING USE (RESTAURANT, GARAGE, AND HOUSING UNITS), THE FOLLOWING IS A BREAKDOWN OF THE EXISTING DESIGN SEWAGE FLOW RATES:

STRUCTURE USE	DENSITY LOAD		KITCHEN / GRAY LOAD		HYDRAULIC LOAD		
	SEATS	GPD/SEAT	FLOW (GPD)	GPD/SEAT	FLOW (GPD)	GPD/SEAT	FLOW (GPD)
RESTAURANT	62	10	620	20	1240	30	1860
	SF	GPD/SF	FLOW (GPD)	GPD/SF	FLOW (GPD)	GPD/SF	FLOW (GPD)
GARAGE	471	0.04	18.8	N/A	N/A	18.8	18.8
	SF	GPD/UNIT	FLOW (GPD)	GPD/SEAT	FLOW (GPD)	GPD/UNIT	FLOW (GPD)
HOUSING UNIT 1	222	110	110	N/A	N/A	110	110
HOUSING UNIT 2	796	225	225	N/A	N/A	225	225
TOTAL		N/A	973.8	N/A	1240	N/A	2213.8

3. SIZE OF SEWAGE DISPOSAL SYSTEM (SCDHS DESIGN STANDARDS)

SANITARY SYSTEM 1

SANITARY SYSTEM 1 IS TO BE USED SOLELY FOR THE KITCHEN/GRAY LOAD BASED ON THE ABOVE PROPOSED DESIGN FLOWS.

A. GREASE TRAP - THE GREASE TRAP IS REQUIRED TO PROVIDE A VOLUME CAPACITY FOR A ONE-DAY KITCHEN DESIGN FLOW. REQUIRED: 1240 GPD
 USE ONE (1) 1500 GALLON GREASE TRAP (8' x 5' EFFECTIVE DEPTH)

B. SEPTIC TANK - THE SEPTIC TANK IS REQUIRED TO PROVIDE A MINIMUM VOLUME CAPACITY FOR A TWO (2) DAY DESIGN FLOW FOR THE KITCHEN/GRAY LOAD COMPUTED AS FOLLOWS:
 1240 GPD X 2 DAYS = 2480 GALLONS
 USE ONE (1) 2500 GALLON SEPTIC TANK (10' x 5' EFFECTIVE DEPTH)

C. LEACHING POOL - THE MINIMUM QUANTITY AND SIZE OF THE LEACHING POOLS REQUIRED IS BASED ON THE TOTAL DESIGN FLOW AND A WEIGHTED SIDEWALL LEACHING AREA RATE OF 1.5 GALLONS/S.F.
 THEREFORE: 1240 GPD / 1.5 GALLONS/S.F. = 826.6 S.F. OF SIDEWALL AREA
 REQUIRED: 826.6 S.F. / 31.4 S.F./V.F. = 26.3 V.F.
 PROPOSED: THREE (3) - 10' x 9' DEEP LEACHING POOLS (27.0 V.F.)

D. LEACHING POOL - THE MINIMUM QUANTITY AND SIZE OF THE LEACHING POOLS REQUIRED IS BASED ON THE TOTAL DESIGN FLOW AND A WEIGHTED SIDEWALL LEACHING AREA RATE OF 1.5 GALLONS/S.F.
 THEREFORE: 969.1 GPD / 1.5 GALLONS/S.F. = 646.1 S.F. OF SIDEWALL AREA
 REQUIRED: 646.1 S.F. / 25.1 S.F./V.F. = 25.7 V.F.
 PROPOSED: THREE (3) - 8' x 9' DEEP LEACHING POOLS (27.0 V.F.)

SANITARY SYSTEM 2

A. TREATMENT TANK - THE TREATMENT TANK IS REQUIRED TO PROVIDE A MINIMUM VOLUME CAPACITY FOR A ONE (1) DAY DESIGN FLOW COMPUTED AS FOLLOWS:
 REQUIRED: 969.1 GPD
 PROPOSED: ONE (1) HYDROACTION AN1100 (1100 GPD)

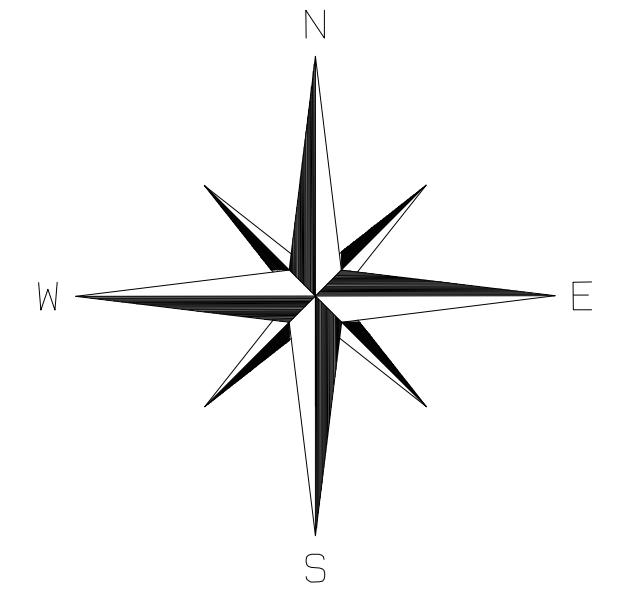
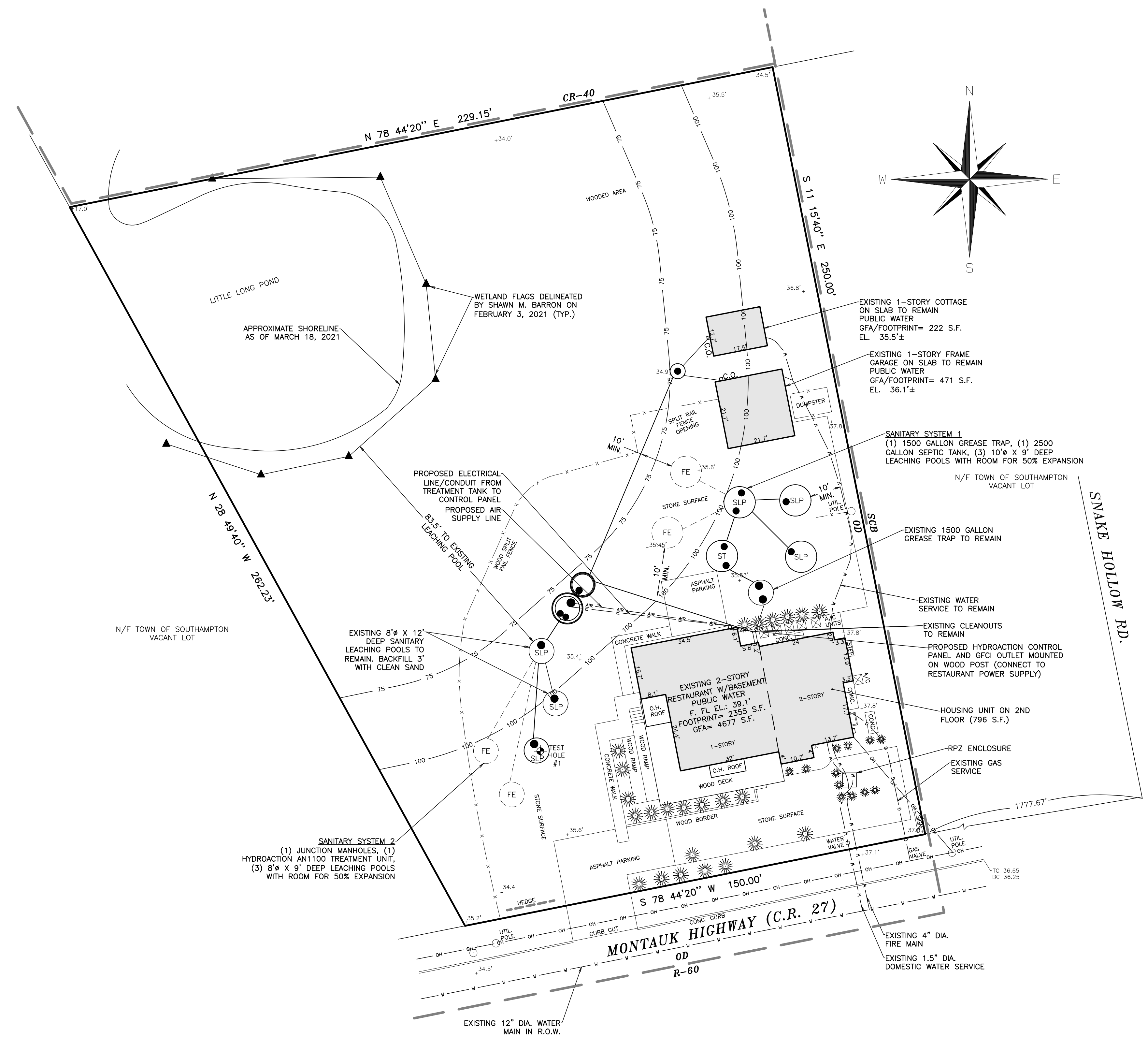
B. LEACHING POOLS - THE MINIMUM QUANTITY AND SIZE OF THE LEACHING POOLS REQUIRED IS BASED ON THE TOTAL DESIGN FLOW AND A WEIGHTED SIDEWALL LEACHING AREA RATE OF 1.5 GALLONS/S.F.
 THEREFORE: 969.1 GPD / 1.5 GALLONS/S.F. = 646.1 S.F. OF SIDEWALL AREA
 REQUIRED: 646.1 S.F. / 25.1 S.F./V.F. = 25.7 V.F.
 PROPOSED: THREE (3) - 8' x 9' DEEP LEACHING POOLS (27.0 V.F.)

4. SANITARY NOTES

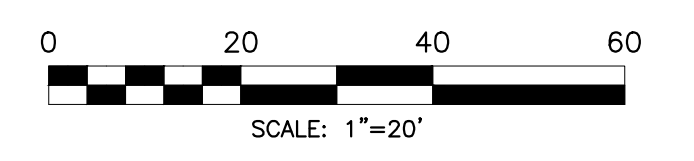
- CONTRACTOR TO FURNISH ALL ITEMS IN ACCORDANCE WITH HYDROACTION AND SCDHS STANDARDS.
- ENGINEERING TO BE NOTIFIED IN ADVANCE FOR TREATMENT TANK TO BE INSPECTED AND CERTIFIED. TREATMENT TANK TO BE FILLED WITH CLEAN WATER AND ALLOWED TO SIT FOR 24 HOURS FOR ENGINEER TO VERIFY WATER TIGHTNESS PRIOR TO BACKFILL.
- THREE (3) YEAR MAINTENANCE AND SERVICE CONTRACT TO BE PROVIDED BY MANUFACTURER.
- THE DESIGN ENGINEER SHALL OBSERVE THE OWTS PRIOR TO BACKFILL AND DURING SYSTEM STARTUP.
- AN EXECUTED OPERATION AND MAINTENANCE CONTRACT SHALL BE PROVIDED TO THE SCDHS.
- A GARBAGE GRINDER SHALL NOT BE INSTALLED UPSTREAM OF THE OWTS.
- THE HYDROACTION TREATMENT SYSTEM SHALL VENT THROUGH THE BUILDING'S SEPTIC INFLUENT LINE AND BUILDING PLUMBING.
- CONTRACTOR SHALL CONFIRM INVERT ELEVATION OF SANITARY AT POINT OF CONNECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES IN THE INVERT ELEVATIONS.
- OWTS SHALL BE TESTED FOR WATER TIGHTNESS AFTER INSTALLATION USING A METHOD APPROVED BY THE MANUFACTURER.
- PORTABLE GENERATOR TO BE PROVIDED ONSITE IN THE EVENT THAT THE POWER SUPPLY TO THE I/A TANK FAILS.

6. STORMWATER NOTES

- THERE ARE NO PROPOSED DRAINAGE IMPROVEMENTS WITH THIS APPLICATION.



NO.	N/F	USE	WATER SUPPLY
1.	TOWN OF SOUTHAMPTON	POND	N/A
2.	TOWN OF SOUTHAMPTON	VACANT	N/A
3.	CHRIS MEAD	VACANT	N/A
4.	KELLIS POND HOMEOWNERS ASSOCIATION INC.	VACANT	N/A
5.	KATHLEEN MILLER	RESIDENCE	PUBLIC WATER
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8.	TOWN OF SOUTHAMPTON	VACANT	N/A



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REVISIONS

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 1970 MONTAUK HIGHWAY, P.O. BOX 1415
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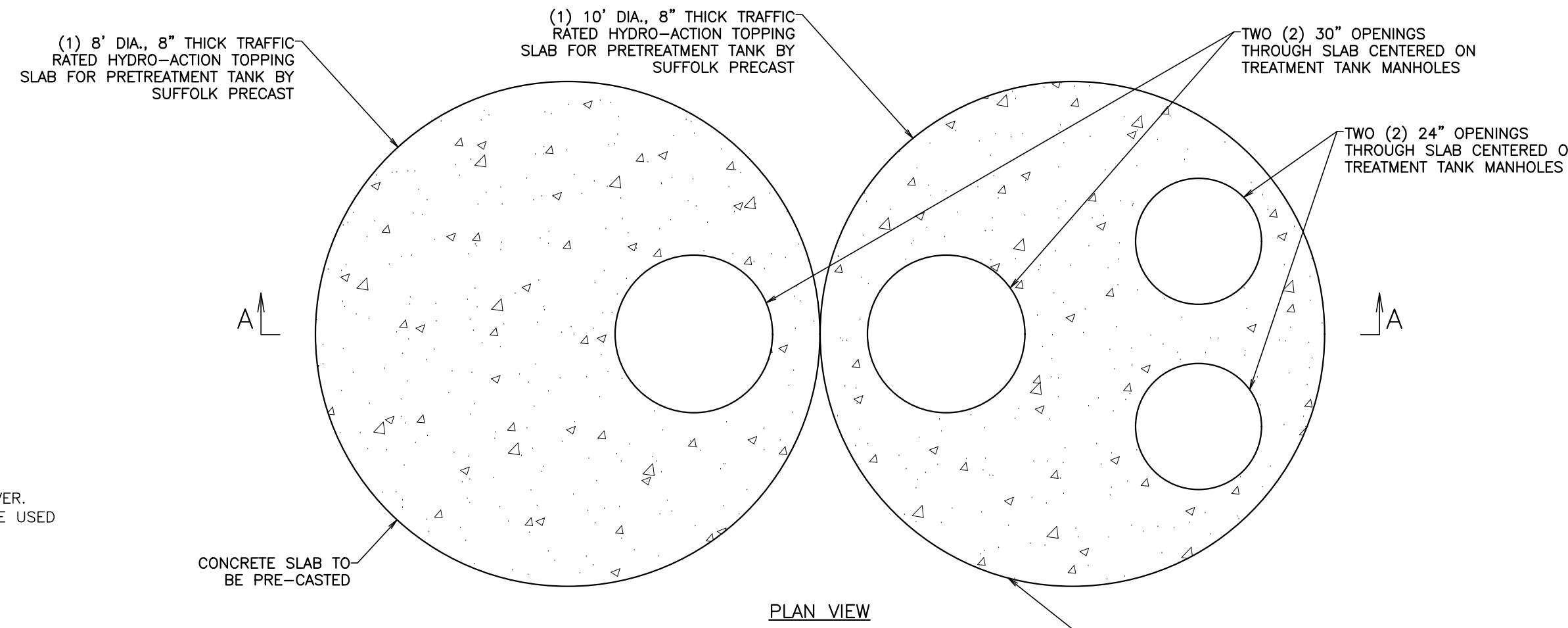
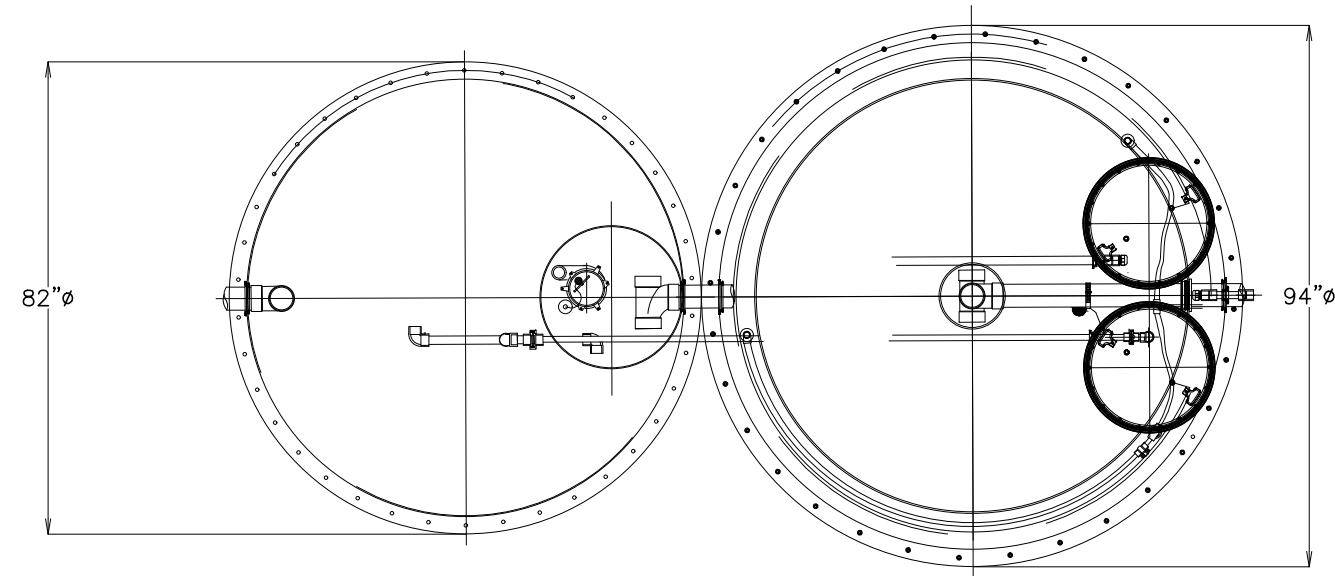
SANITARY IMPROVEMENT PROJECT
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 SCTM NO.: 0900-083-00-01-00-024-000

SITE PLAN

THE RAYNOR GROUP, P.E. & L.S. PLLC
 SURVEYORS CIVIL ENGINEERS SITE PLANNERS
 DEERFIELD GREEN P.O. BOX 720
 WATERMILL, NY 11976 (631)726-7600

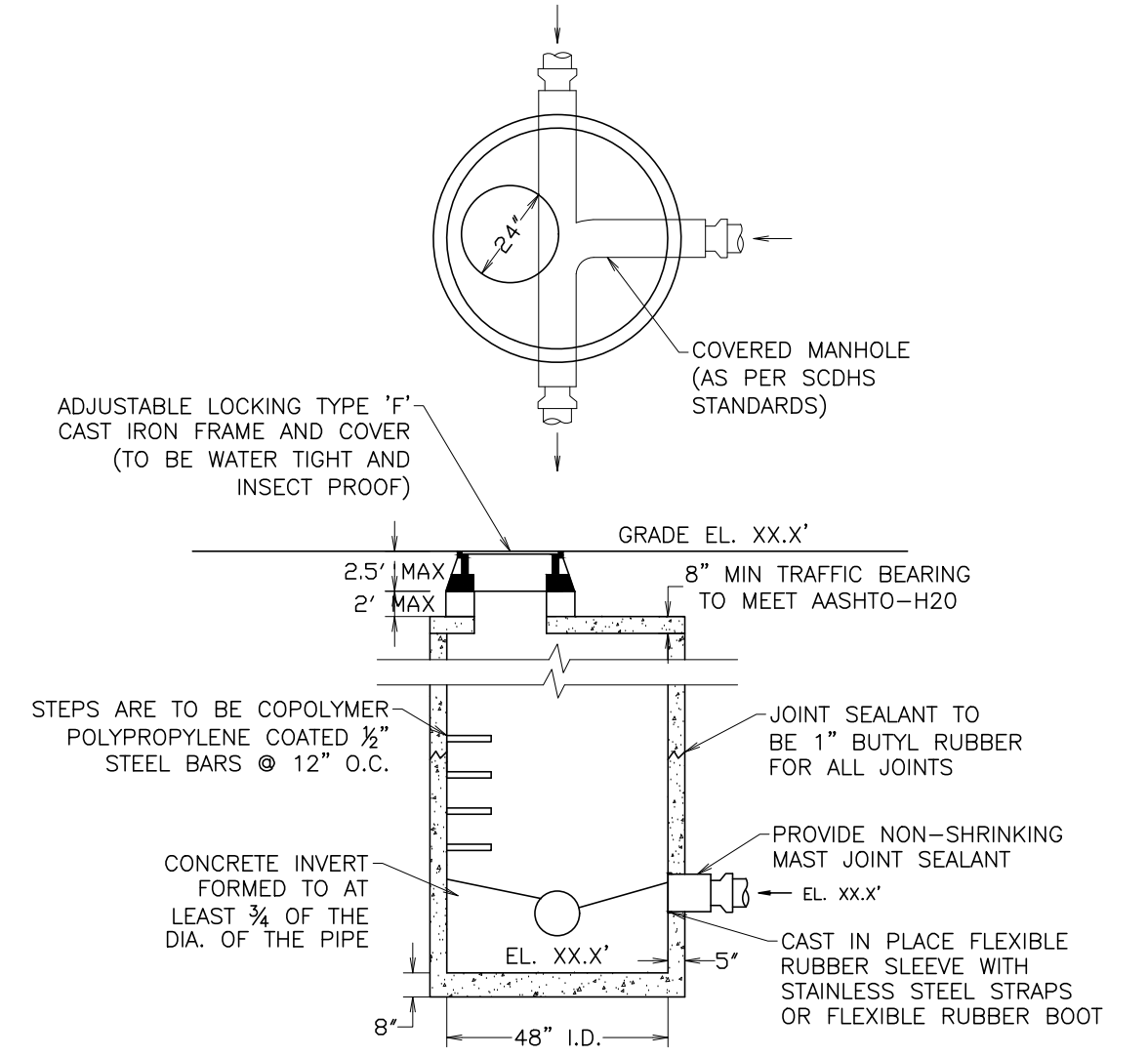
DESIGNED BY: VAG SCALE: 1" = 20' DWG. NO.
 DRAWN BY: RCW DATE: 08/05/2021 C-2
 APPROVED BY: VAG FILE NO.: 3564

VINCENT A. GALIDIELLO
 PROFESSIONAL ENGINEER NO. 073544



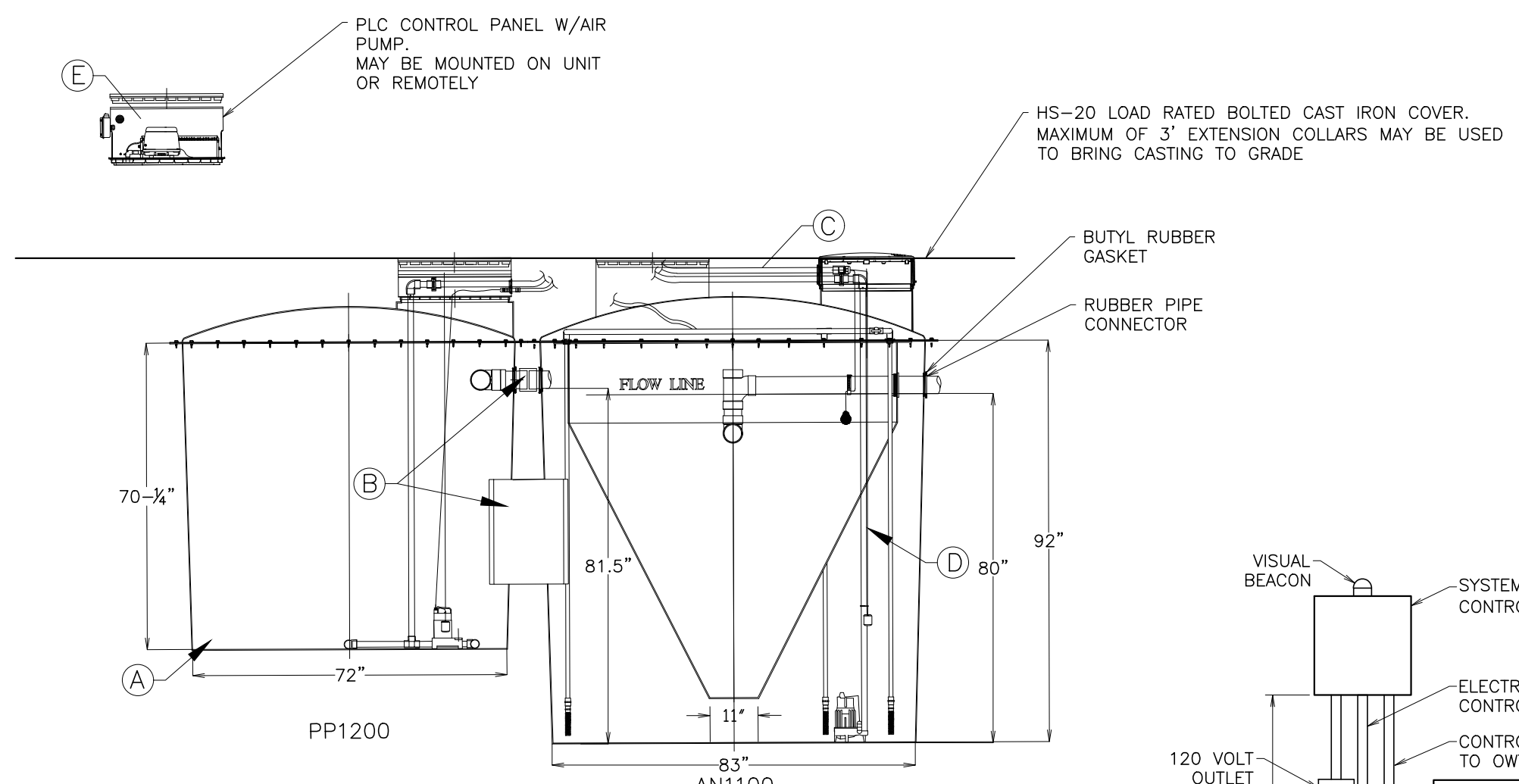
- CONSTRUCTION NOTES:**
- THE PROPOSED FOOTING RING, SOLID CONCRETE RING AND SLAB SHALL BE MANUFACTURED BY SUFFOLK PRECAST OR APPROVED EQUAL.
 - THE PROPOSED CONCRETE RING AND SLAB SHALL BE SET TRUE AND LEVEL.
 - THE PROPOSED RING SHALL BE SET ON VIRGIN COMPACTED SOIL.
 - HEAVY DUTY LOCKING CAST IRON COVERS SHALL BE MORTARED AND SEALED TO TOP SLAB.

- CONCRETE/REINFORCING STEEL NOTES:**
- THE SLAB SHALL BE PRE-CASTED AND MANUFACTURED TO PROVIDE AASHTO H-20 LOAD BEARING CAPACITY.
 - THE CONCRETE MIX DESIGN SHALL PROVIDE FOR A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS.
 - ALL REINFORCING STEEL SHALL BE GRADE 60 AND SHALL CONFORM TO ASTM SPECIFICATION OF DEFORMED AND PLAIN BILLET STEEL BARS FOR CONCRETE REINFORCEMENT, ASTM A615. DETAILING OF REINFORCEMENT, ASTM A615. DETAILING OF REINFORCING STEEL SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE DETAILING MANUAL.



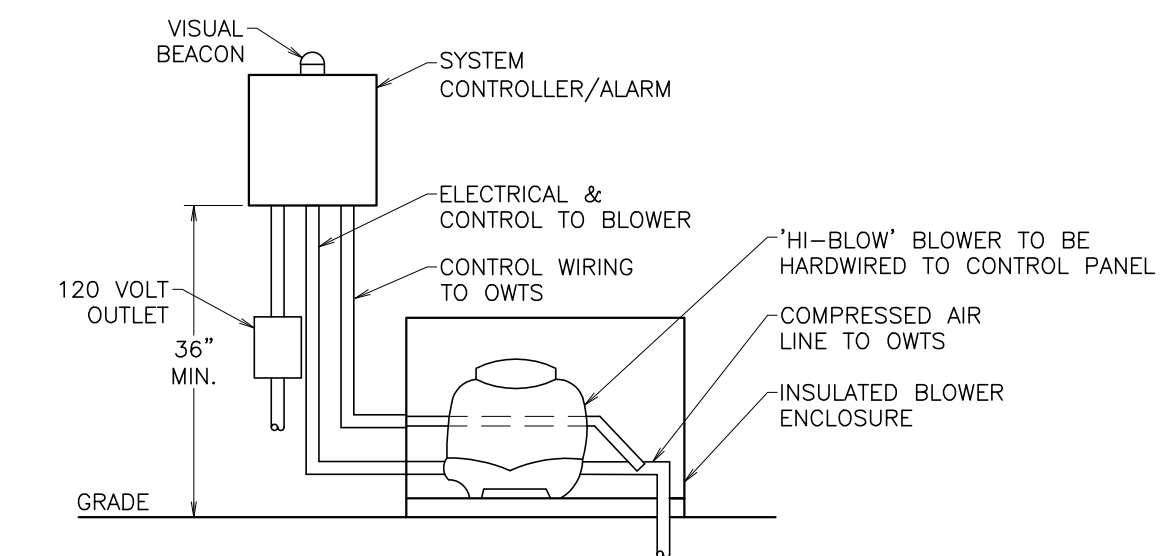
- NOTES:**
- ALL MANHOLE SECTIONS SHALL CONFORM TO ASTM C-478, LATEST REVISION STANDARD SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MH SECTIONS.
 - MANHOLE RISER SECTION TO BE FURNISHED IN 1,2,3 OR 4' HEIGHTS, AS REQUIRED.
 - LOADING TO CONFORM TO AASHTO H-20 LOADING.
 - ALL CONCRETE IS TO MEET 4000 PSI AT 28 DAY SET.
 - OUTLET PIPE TO BE SET 0.1' MIN BELOW INLET PIPES.
 - THE MAX CHANGE IN EL. BETWEEN INLET AND OUTLET INVERT(S) SHALL BE NO GREATER THAN 2 FEET.

CONCRETE ACCESS/JUNCTION MANHOLE DETAIL
NOT TO SCALE

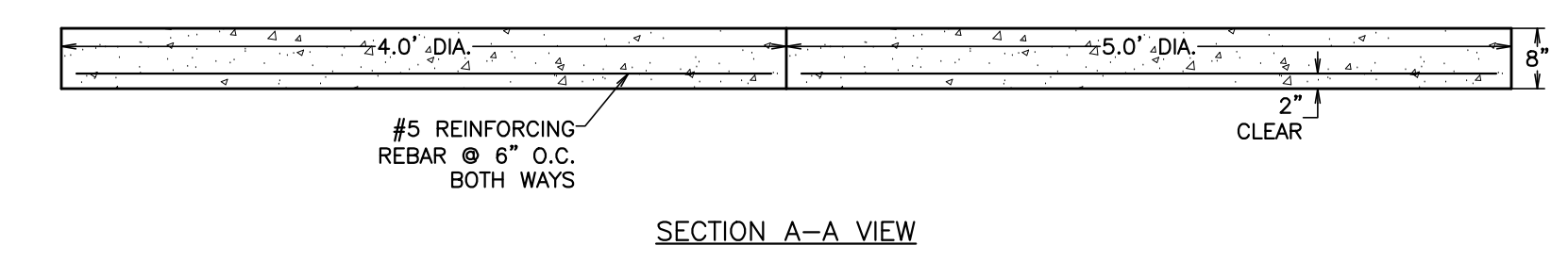


ITEM	DESCRIPTION
	AN1100-R, NITROGEN REDUCTION TANK, AN1100 245 PRETREATMENT
A	SNG STANDARD 2 TANK CONNECTING KIT
B	ASSEMBLY, RECIRCULATION, 245 COMPLETE AN1100
C	AN1100 W/ PLATFORM COMPLETE
D	EC50-30-L-200-PLC

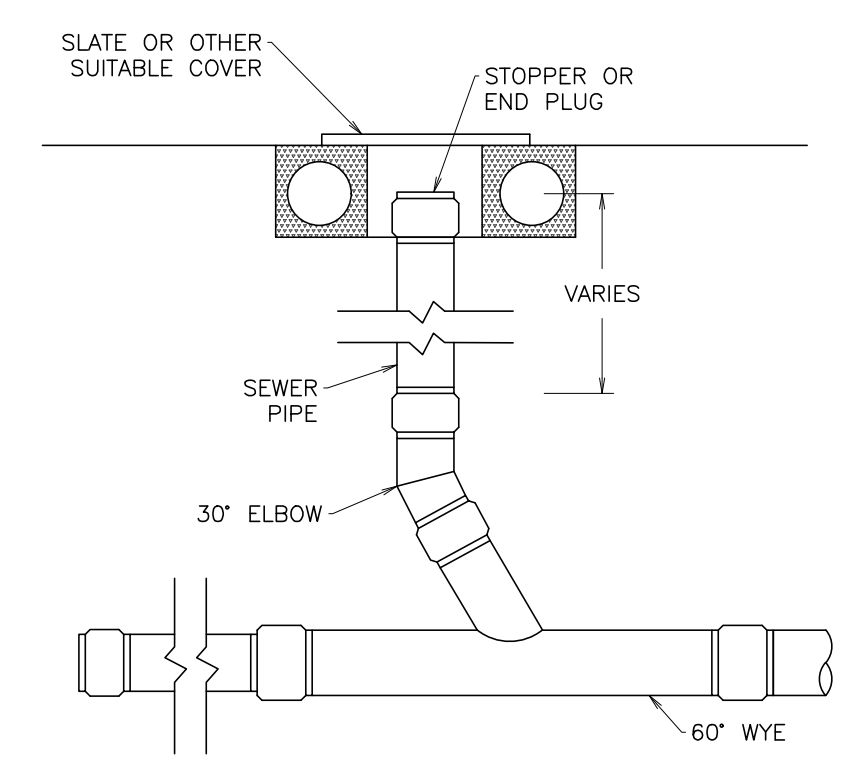
HYDRO-ACTION AN1100
NOT TO SCALE



CONTROL PANEL AND BLOWER DETAIL
NOT TO SCALE

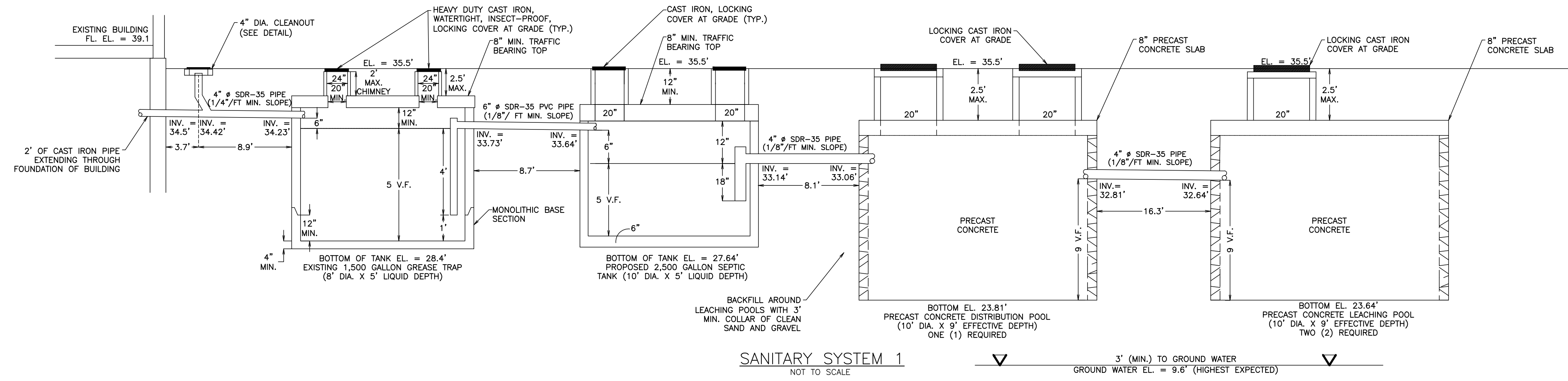


TREATMENT TANK SLAB DETAIL
SCALE: N.T.S.

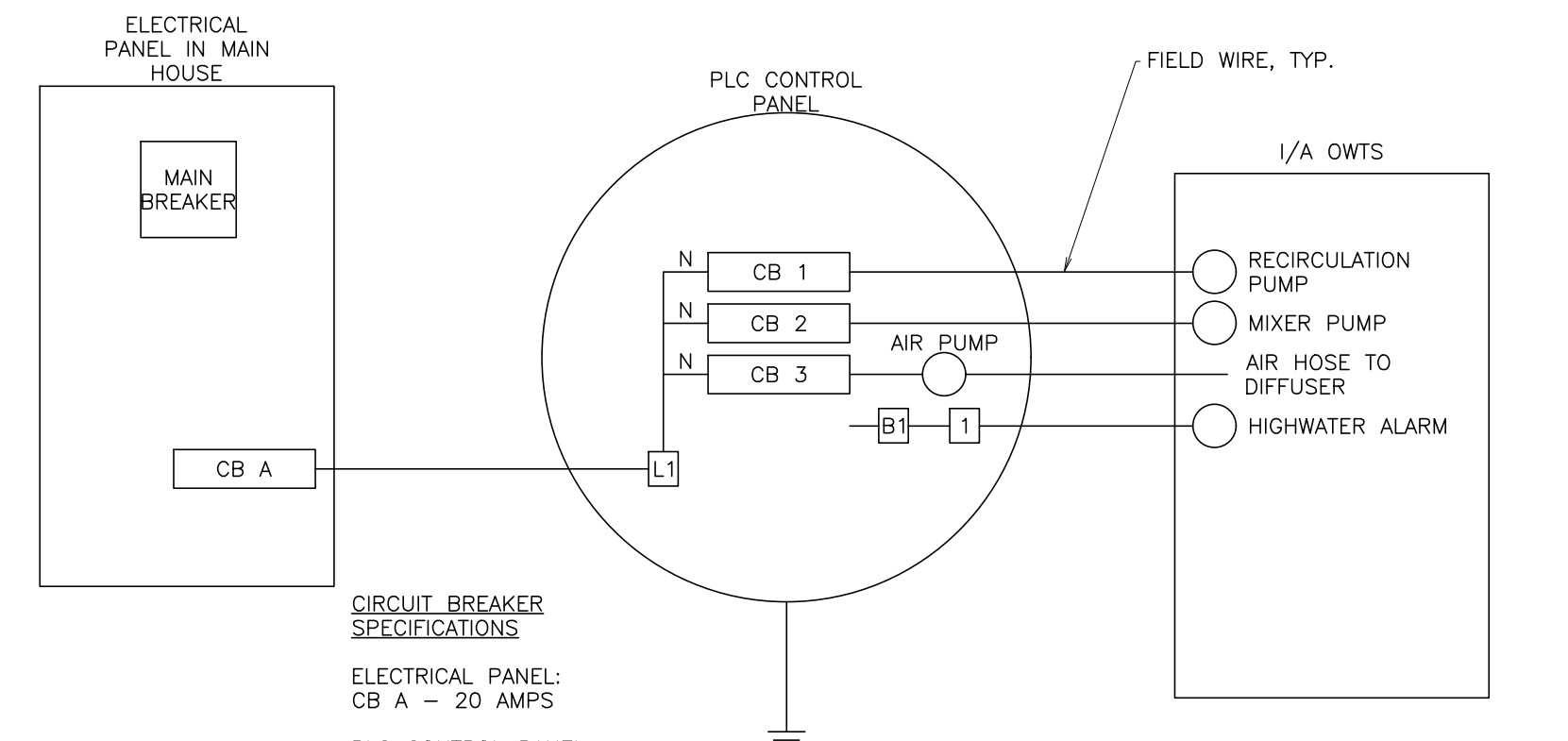


- NOTES:**
- CLEANOUT DETAIL FOR AREAS NOT SUBJECT TO VEHICULAR TRAFFIC.
 - CLEANOUT DETAIL FOR USE WITH BUILDING EXTENSION/CONNECTION.

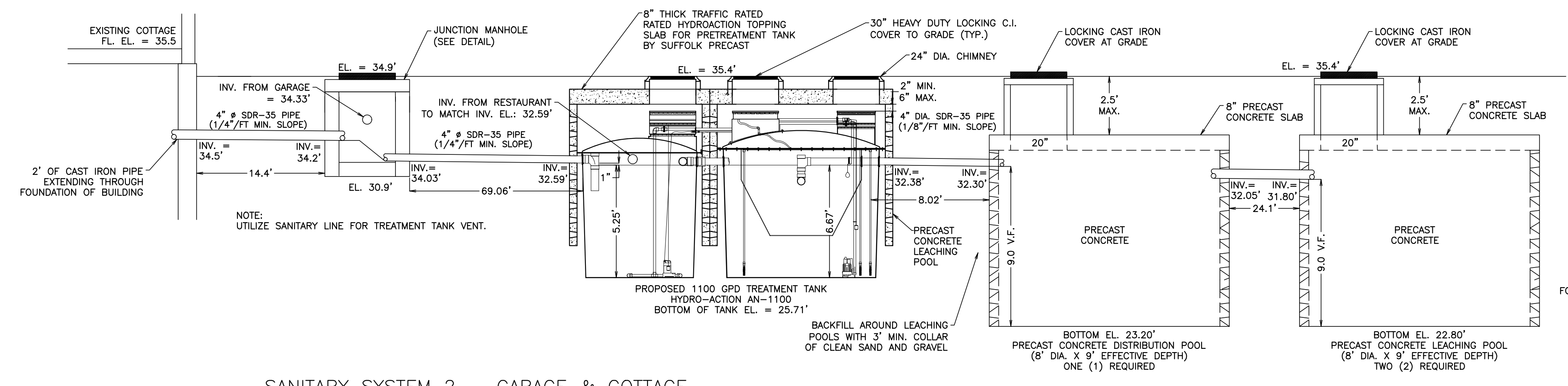
CLEANOUT DETAIL
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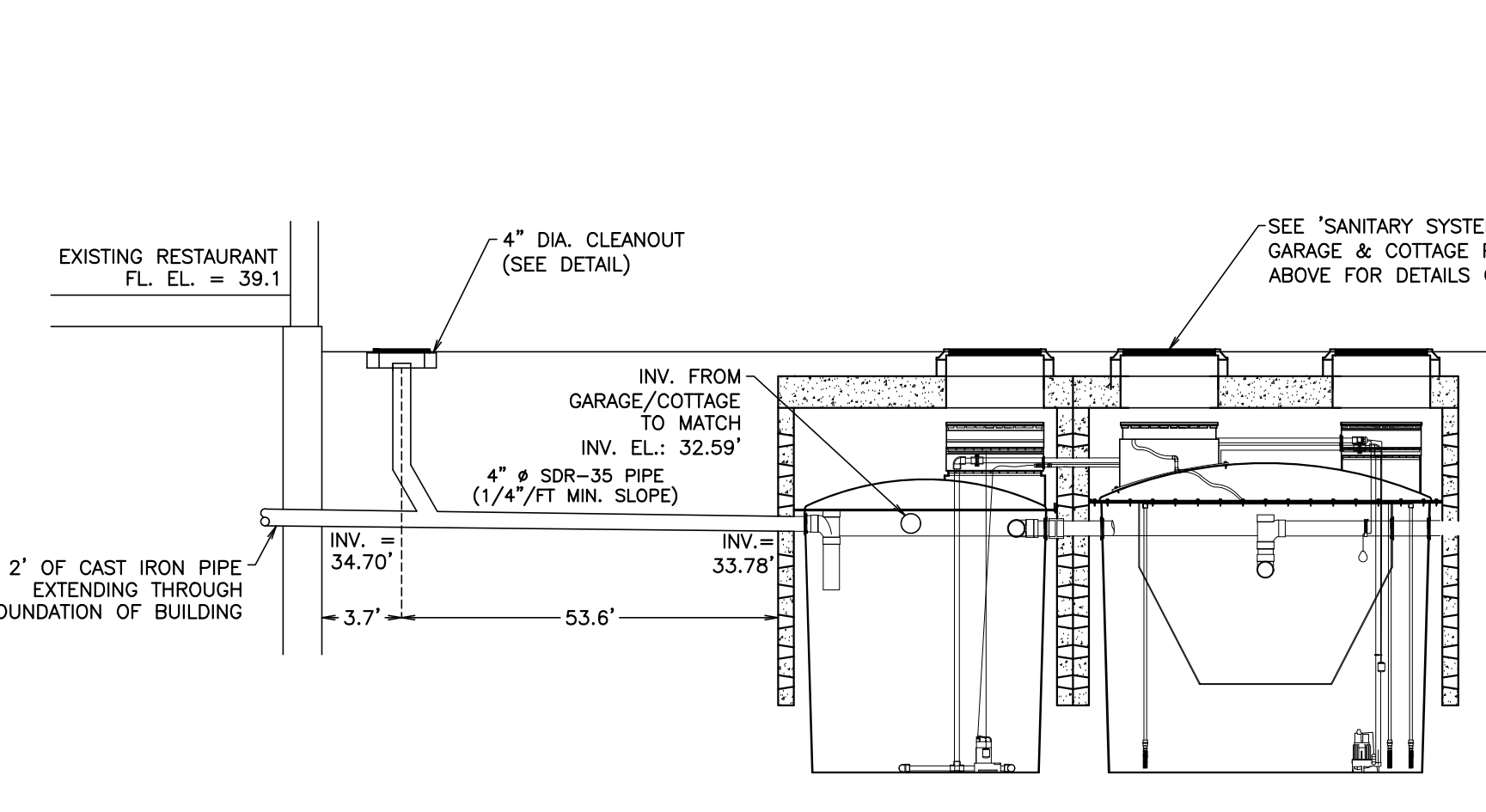
SANITARY SYSTEM 1
NOT TO SCALE



HYDRO-ACTION ELECTRICAL WIRING DIAGRAM
NOT TO SCALE



SANITARY SYSTEM 2 - GARAGE & COTTAGE
NOT TO SCALE



SANITARY SYSTEM 2 - RESTAURANT PROFILE
NOT TO SCALE

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