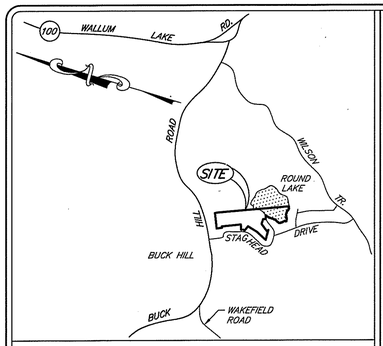
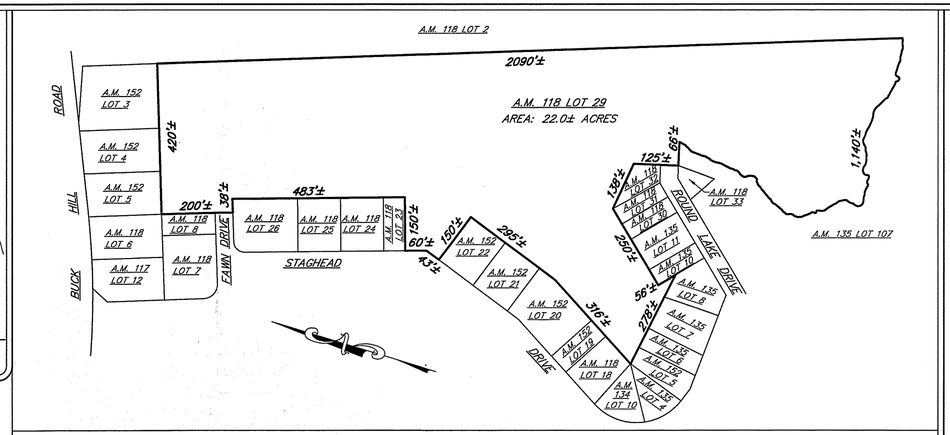


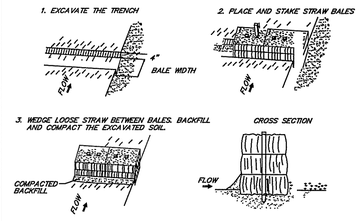
LOCATION PLAN SCALE: 1"=2000'



COMPILATION PLAN SCALE: 1" = 200'±

THIS COMPILATION PLAN IS A CLASS III BOUNDARY PREPARED FROM SOURCES OF INFORMATION AND DATA WHOSE POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED. THE PROPERTY LINES HEREON DO NOT REPRESENT A BOUNDARY OPINION, AND ARE SUBJECT TO SUCH CHANGES AS AN AUTHORITATIVE FIELD [BOUNDARY] SURVEY MAY [WOULD] DISCLOSE.

FOR STREET AND ROAD INDEX, FILE UNDER:
STAGHEAD DRIVE



STAKED BALED STRAW EROSION CHECK DETAIL

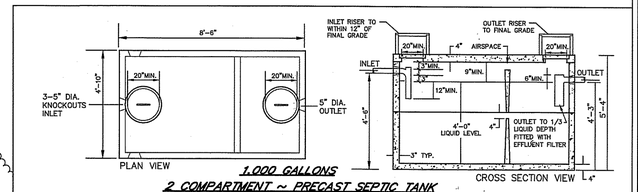
NOT TO SCALE

DESIGN CRITERIA

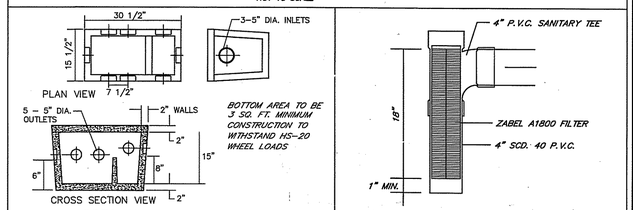
SEWAGE FLOW – 3 BEDROOMS – 115 GALLONS PER BEDROOM UNIT
PERCOLATION RATE – SOIL CATEGORY 6m – .70 GALLONS/SQ. FT./DAY
TOTAL DAILY FLOW:
115 GALLONS/DAY/BEDROOM – 115 X 3 = 345 GALLONS PER DAY
MINIMUM REQUIRED LEACH FIELD AREA:
345 GALLONS PER DAY (MAX.) ÷ .70 GALS/SQ. FT./DAY =492.8 SQ. FT.
LEACH FIELD AREA PROVIDED: 18 ELJEN UNITS X 4 X 7 = 504 SQ. FT.
LEACH FIELD DESIGN POINT: ELEVATION 669.0'±
*PER RULE 33.5.2 A PROPERLY COMPACTED 6" GRAVEL BASE MEETING THE REQUIREMENTS OF RULE 33.12 SHALL BE PLACED THROUGHOUT THE EXCAVATION TO AN ELEVATION 2" ABOVE THE TOP OF THE DISTRIBUTION LINES. DISPERSAL TRENCHES SHALL BE EXCAVATED OUT OF THE COMPACTED GRAVEL. THERE SHALL BE A MINIMUM 6" GRAVEL BASE LAYER MEETING THE REQUIREMENTS OF RULE 33.12 BELOW THE SPECIFIED SAND.

GROUNDWATER & LEDGE DEPTH TABLE

TEST PIT	GROUNDWATER DEPTH	GROUNDWATER ELEVATION	LEDGE DEPTH	LEDGE ELEVATION
16–01	2.5'	668.2'	8.0'	662.7'
16–02	3.7'	664.2'	8.4'	659.5'
16–03	3.7'	663.9'	10.5'	657.1'



1,000 GALLONS
2 COMPARTMENT ~ PRECAST SEPTIC TANK
NOT TO SCALE

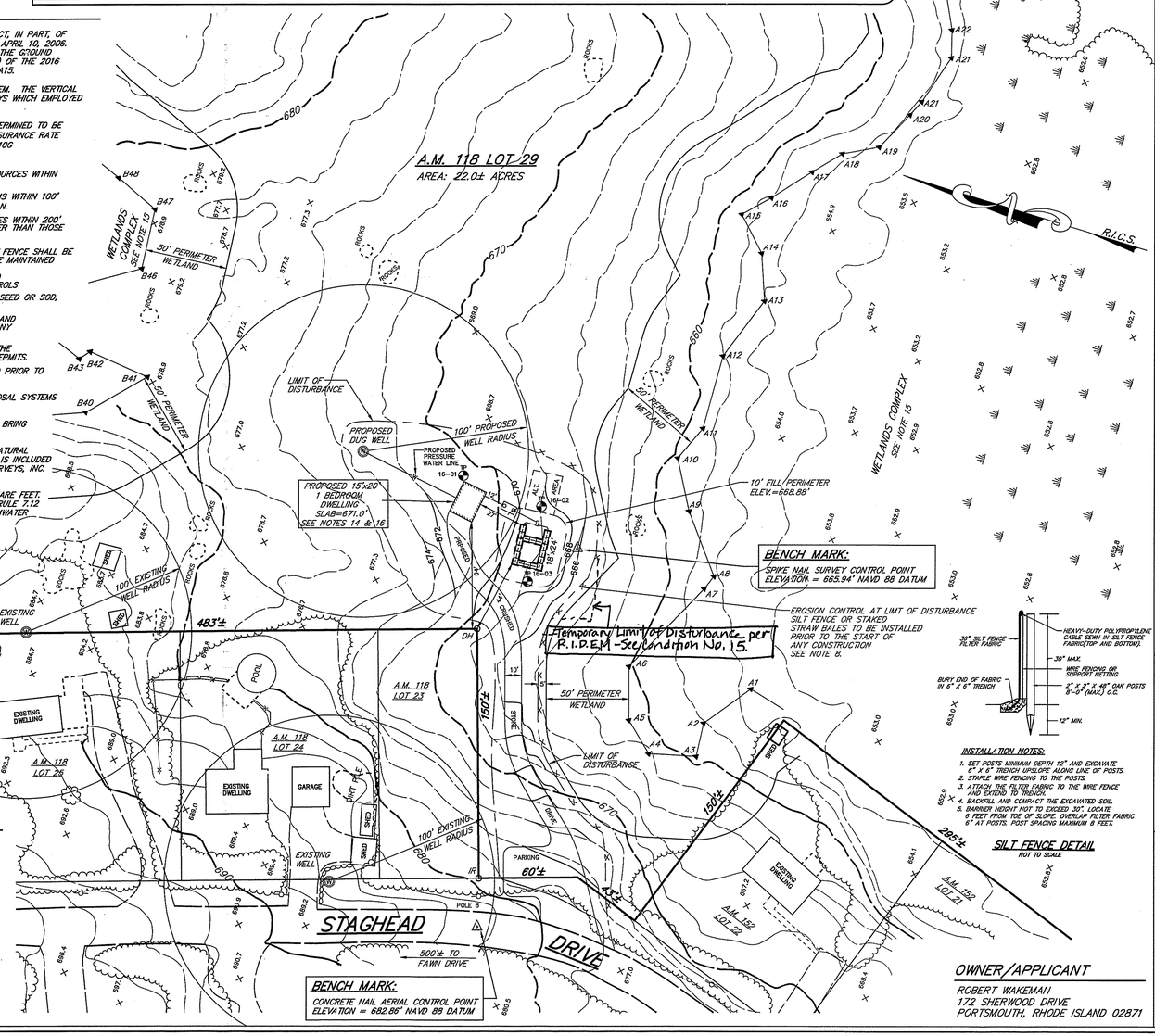


PRECAST DISTRIBUTION BOX
NOT TO SCALE

ZABEL A1800 FILTER
NOT TO SCALE

GENERAL NOTES

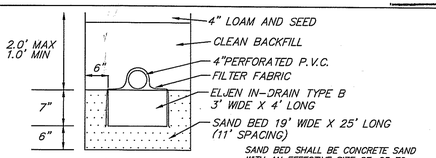
1. THE DATA ACCUMULATION SURVEY DEPICTED HEREON IS A PRODUCT, IN PART, OF AERIAL PHOTOGRAMMETRY PREPARED FROM PHOTOGRAPHY DATED APRIL 10, 2006. SCITUATE SURVEYS, INC. SUPPLEMENTED THIS DATA WITH AN ON–THE GROUND TOPOGRAPHIC SURVEY OF THE AREA WITHIN 200' (MORE OR LESS) OF THE 2016 SOIL EVALUATIONS AND REPLACED WETLAND FLAGS A3 THROUGH A15.
2. THE HORIZONTAL DATUM IS THE RHODE ISLAND COORDINATE SYSTEM. THE VERTICAL DATUM IS NAVD 88. BOTH WERE DERIVED FROM CONTROL SURVEYS WHICH EMPLOYED GLOBAL POSITIONING TECHNOLOGY.
3. THE SITE IS LOCATED WITHIN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN). SEE FLOOD INSURANCE RATE MAP FOR PROVIDENCE COUNTY, RHODE ISLAND NUMBER 44007C0110G DATED MARCH 2, 2009.
4. THERE ARE NO EXISTING OR PROPOSED PUBLIC WATER SUPPLY SOURCES WITHIN 500' OF PROPOSED LOT OTHER THAN THOSE SHOWN ON PLAN.
5. THERE ARE NO EXISTING OR PROPOSED SEWAGE DISPOSAL SYSTEMS WITHIN 100' OF THE PROPOSED WELL OTHER THAN THOSE SHOWN ON THE PLAN.
6. THERE ARE NO EXISTING OR PROPOSED INDIVIDUAL WATER SUPPLIES WITHIN 200' OF THE PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM OTHER THAN THOSE SHOWN ON THE PLAN.
8. STRAW BALE EROSION CHECK (R.I. STANDARD 9.1.0) AND/OR SILT FENCE SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES AND SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS
9. ALL DISTURBED AREAS SHALL BE STABILIZED WITH 4" LOAM AND SEED OR SOD. PROPOSED SLOPES SHALL BE 3:1 (MAXIMUM).
10. EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. DIG SAFE AND APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO ANY CONSTRUCTION FOR ACCURATE UTILITY LOCATIONS.
11. ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF ALL STATE AND LOCAL PERMITS.
12. ALL IMPROVEMENTS SHALL BE ACCURATELY LOCATED AND STAKED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
13. EACH STAGE OF CONSTRUCTION OF THE INDIVIDUAL SEWAGE DISPOSAL SYSTEMS MUST BE SUPERVISED BY THE SYSTEM DESIGNER.
14. THE OWNER MAY ADD ADDITIONS TO THE PROPOSED DWELLING TO BRING THE TOTAL NUMBER OF BEDROOMS TO THREE.
15. THE WETLANDS DELINEATION WAS CONDUCTED IN MAY 2006 BY NATURAL RESOURCE SERVICES, INC. A COPY OF THE LETTER OF FINDINGS IS INCLUDED WITH THIS APPLICATION. AS MENTIONED IN NOTE 1 SCITUATE SURVEYS, INC. HAS REPLACED FLAGS A3 THROUGH A15 IN 2016.
16. THE IMPERVIOUS SURFACES OF THIS APPLICATION TOTAL 300 SQUARE FEET. THEREFORE THE APPLICATION DOES NOT HAVE TO COMPLY WITH RULE 7.12 OF THE FRESH WATER WETLANDS REGULATIONS REGARDING STORMWATER RUNOFF.



INSTALLATION NOTES:
1. SET POSTS MINIMUM DEPTH 12" AND EXCAVATE 6" X 6" TRENCH UPSLOPE ALONG LINE OF POSTS.
2. STAPLE WIRE FENCING TO THE POSTS.
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND TO TRENCH.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.
5. BARRIER HEIGHT NOT TO EXCEED 30", LOCATE 6 FEET FROM TOE OF SLOPE. OVERLAP FILTER FABRIC 6" AT POSTS. POST SPACING MAXIMUM 8 FEET.

SILT FENCE DETAIL
NOT TO SCALE

ELJEN IN–DRAIN LINES:
NUMBER REQUIRED: 18
ELJEN IN–DRAIN TYPE B43
TOTAL LENGTH: 24'
INTERCONNECT ENDS

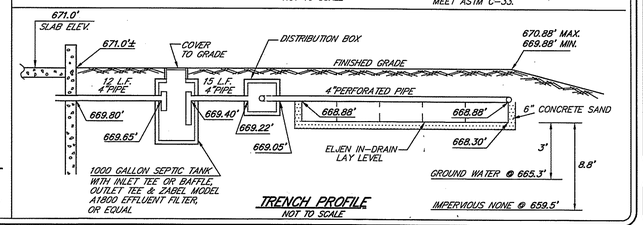


IN–DRAIN CROSS SECTION
NOT TO SCALE

SAND BED SHALL BE CONCRETE SAND WITH AN EFFECTIVE SIZE OF .25 TO 2.0 MM WITH NO MORE THAN 5% PASSING A #200 SIEVE, MATERIAL MUST MEET ASTM C–33.

DESIGN AND CONSTRUCTION NOTES:

1. ALL WORK SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT RULES AND REGULATIONS, AS AMENDED.
2. THE TOP OF FOUNDATION ELEVATION SHOWN HAS BEEN DESIGNED FOR O.W.T.S. PURPOSES ONLY. THE OWNER AND/ OR CONTRACTOR IS ADVISED TO DETERMINE WHETHER THE BASEMENT FLOOR OF THE PROPOSED DWELLING IS AT OR BELOW THE GROUND WATER TABLE AND, IF SO, RAISE THE FOUNDATION ACCORDINGLY.
3. THE CONTRACTOR SHALL NOTIFY THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THIS SITE PLAN. THE DESIGNER MUST PERFORM ALL NECESSARY INSPECTIONS, BOTH DURING AND AFTER INSTALLATION, BEFORE ANY COMPONENT OF THE SYSTEM IS COVERED.
4. THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN COMPILED FROM MAPS, DEEDS, AND OTHER SOURCES OF INFORMATION, AND ARE SUBJECT TO SUCH MODIFICATIONS AS AN ACTUAL BOUNDARY SURVEY MAY DISCLOSE. TO THE EXTENT THAT SUCH BOUNDARIES ARE CRITICAL TO THE O.W.T.S. LOCATION, THEY MUST BE ESTABLISHED PRIOR TO CONSTRUCTION.
5. ALL TREES, STUMPS, AND BRUSH WITHIN A 10' PERIMETER AROUND THE SYSTEM MUST BE CLEARED.
6. THE EXCAVATION SHALL BE LEVEL AND SCARIFIED.
7. ALL TOPSOIL AND SUBSOIL WITHIN A 5' PERIMETER OF THE SYSTEM SHALL BE STRIPPED AND BACKFILLED WITH CLEAN, COARSE GRAVEL. EXCAVATION INTO IMPERVIOUS MATERIAL IS PROHIBITED UNLESS OTHERWISE APPROVED BY THE DIRECTOR.
8. MAINTAIN TRENCH INVERT ELEVATION FOR 10' BEYOND THE PERIMETER OF THE LEACHING FIELD. THE ADJACENT SIDE SLOPE SHALL NOT BE STEEPER THAN 3:1 FOR A 25' MIN. DISTANCE FROM THE EDGE OF LEACH FIELD. MAINTAIN 5' TO PROPERTY LINE FROM TOE OF 3:1 SIDE SLOPE .
9. INSTALL CAST IRON PIPE OR EQUIVALENT FROM THE FOUNDATION TO THE SEPTIC TANK. ALL OTHER PIPES MUST BE SDR 35 P.V.C. OR EQUIVALENT.
10. SUBSURFACE DRAINS AND WATER SUPPLY LINE TO BE INSTALLED IN CONFORMANCE WITH DISTANCES SPECIFIED IN TABLE 22.1.
11. ALL KNOWN EXISTING AND PROPOSED PUBLIC WATER SUPPLY WELLS WITHIN 500' OF THE SYSTEM ARE SHOWN; ALL KNOWN EXISTING AND PROPOSED PRIVATE WELLS WITHIN 200' OF THE SYSTEM ARE SHOWN; ALL KNOWN EXISTING AND PROPOSED SEPTIC SYSTEMS WITHIN 100' OF THE WELL ARE SHOWN.
12. ALL WORK MUST CONFORM TO THE REQUIREMENTS OF OTHER EXISTING PERMITS, IF ANY.
13. WITH RESPECT TO MUNICIPAL ZONING REQUIREMENTS, THE DESIGNER HAS MADE A REASONABLE EFFORT TO ASCERTAIN THE APPLICABLE DIMENSIONAL SETBACKS AND OTHER CONSTRAINTS TO DEVELOPMENT. DUE, HOWEVER, TO THE POSSIBILITY OF UNRECORDED VARIANCES, NON–CONFORMING USES, AND OTHER RELEVANT DOCUMENTS, IT REMAINS THE RESPONSIBILITY OF THE OWNER TO VERIFY THAT THIS DESIGN SATISFIES LOCAL CODES.
14. ALL STAGES OF CONSTRUCTION MUST BE SUPERVISED BY THE DESIGNER OF RECORD. UNLESS WAIVED BY THE DESIGNER, IMPROVEMENTS MUST BE STAKED BY THE DESIGNER OR HIS AGENTS PRIOR TO CONSTRUCTION. THESE INCLUDE: THE O.W.T.S. FOUNDATION, WELL, EROSION CONTROLS, CLEARING LIMITS AND ANY OTHER FEATURES DEEMED CRITICAL TO THE DESIGN.



TRENCH PROFILE
NOT TO SCALE

LEGEND

A.P.	ASSESSOR'S PLAT
TP	SOIL EVALUATION PIPE
	EXISTING CONTOUR
	PROPOSED CONTOUR
W	WATER LINE/MAIN
× 671.3	EXISTING SPOT ELEVATION
× × ×	PROPOSED EROSION CONTROL
W	PROPOSED/ EXISTING WELL
P8	UTILITY POLE

OWNER/APPLICANT
ROBERT WAKEMAN
172 SHERWOOD DRIVE
PORTSMOUTH, RHODE ISLAND 02871

SCITUATE SURVEYS, INC.
410 TIOGUE AVENUE
COVENTRY, RHODE ISLAND 02816
401.821.8101
LAND SURVEYING/MAPPING/SITE PLANNING

Environmental Management
AUG 30 2016
Office of Water Resources

SCALE IN FEET: 40 20 0 40 80 120

CERTIFICATION
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS FOR PROFESSIONAL LAND SURVEYORS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

TYPE OF BOUNDARY SURVEY:	NOT A BOUNDARY SURVEY	MEASUREMENT SPECIFICATION: N/A
TYPE OF SURVEY:	DATA ACCUMULATION SURVEY	
COMPILATION PLAN	CLASS III VERTICAL CONTROL STANDARD V–3 TOPOGRAPHIC SURVEY ACCURACY 1–2	
	DATA ACCUMULATION SURVEY	POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED. THE PROPERTY LINES HEREON DO NOT REPRESENT A BOUNDARY OPINION, AND ARE SUBJECT TO SUCH CHANGES AS AN AUTHORITATIVE FIELD [BOUNDARY] SURVEY MAY [WOULD] DISCLOSE.

EXCEPTIONS OR OMISSIONS:
THE PURPOSE OF THIS SURVEY WAS TO CONDUCT A DATA ACCUMULATION SURVEY, AND TO COLLECT TOPOGRAPHIC AND PHYSICAL FEATURE LOCATION DATA FOR DESIGN OF AN ON–SITE SEPTIC SYSTEM AND OTHER IMPROVEMENTS.

BY: ANGELO M. RAIMONDI, PROFESSIONAL LAND SURVEYOR
IF THIS MAP DOES NOT BEAR AN ORIGINAL SIGNATURE AND "SEAL" STAMP, THEN IT IS NOT AN AUTHORITATIVE VERSION.

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ANGELO M. RAIMONDI No. 1762 PROFESSIONAL LAND SURVEYOR

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF
DATED OCT 6 2016 FILE # 16-0224
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

PLAN OF PROPOSED SITE DEVELOPMENT
A.M. 118 LOT 29
STAGHEAD DRIVE
BURRILLVILLE, RHODE ISLAND
PREPARED FOR: ROBERT WAKEMAN

SCALE: 1"=40' DATE: AUGUST 11, 2016 REVISION:

PROJECT NO.: SS2206.01
DRAWING NO.: SS4300
SHEET 1 OF 1