

# SITE PLAN MAP 30A LOTS 87 & 87A BRIDGE STREET FAIRHAVEN, MASSACHUSETTS

**SITE NOTES:**

- THE SITE IS LISTED ON THE TOWN OF FAIRHAVEN ASSESSORS PROPERTY RECORD CARDS AS PARCEL ID 30A-087 AND 30A-87A.
- PROPERTY LINE AND EXISTING CONDITIONS INFORMATION WAS TAKEN FROM A FIELD SURVEY BY ZENITH LAND SURVEYORS, LLC.
- BRISTOL SOUTH COUNTY REGISTRY OF DEEDS:  
DEED REFERENCE: BOOK 13503 PAGE 338  
PLAN REFERENCES:  
BOOK 51 PAGE 54  
LAND COURT PLANS 2728 C, 2728 K & 2728 N
- THE SUBJECT PROPERTY IS LOCATED IN ZONE X, AS SHOWN ON THE FLOOD INSURANCE RATE MAP (F.I.R.M.) OF BRISTOL COUNTY, MASSACHUSETTS, MAP NUMBER 250503394H, MAP REVISED JULY 6, 2021.
- THE SITE IS NOT LOCATED IN A PRIORITY HABITAT AND ESTIMATED HABITAT AS SHOWN ON THE MASSACHUSETTS NATURAL HERITAGE ATLAS 15TH EDITION EFFECTIVE DATE AUGUST, 2021.
- THE WETLAND LINE SHOWN IS DERIVED FROM AN ORDER OF CONDITIONS THAT WAS ISSUED ON SEPTEMBER 11, 2017 BY THE FAIRHAVEN CONSERVATION COMMISSION, DEP FILE NUMBER SE23-1246 RECORDED IN BRISTOL SOUTH COUNTY REGISTRY OF DEEDS BOOK 12318 PAGE 166. THE ORDER OF CONDITIONS WAS EXTENDED ON AUGUST 24, 2020 WITH THE EXTENSION RECORDED IN BRISTOL SOUTH COUNTY REGISTRY OF DEEDS BOOK 13360 PAGE 306.
- THE PROJECT IS NOT LOCATED WITHIN AN AREA OF CRITICAL ENVIRONMENTAL CONCERN (ACEC).
- THE SITE IS NOT LOCATED IN A ZONE B TO A PUBLIC WATER SUPPLY WELL.
- THE SITE IS NOT IN A ZONE A TO A SURFACE WATER SUPPLY AREA.
- THE SITE IS NOT LOCATED IN AN OUTSTANDING RESOURCE WATER AREA (ORW).

**CONSTRUCTION NOTES:**

- A WRITES PERMIT MUST BE OBTAINED FOR THIS PROJECT PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY BENCHMARKS FOR CONSISTENCY PRIOR TO CONSTRUCTION AND SHALL NOTIFY ZENITH CONSULTING ENGINEERS, LLC OF ANY DISCREPANCIES.
- CONTRACTOR SHALL VERIFY WATER TABLE ELEVATIONS AND NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES FROM THE PLAN.
- IT IS THE CONTRACTORS' RESPONSIBILITY TO CONTACT DIG SAFE (1-888-DIG SAFE) PRIOR TO THE COMMENCEMENT OF WORK AND ALL UNDERGROUND UTILITY COMPANIES TO CONFIRM LOCATIONS AND ELEVATIONS.
- SITE IS TO BE SERVICED BY MUNICIPAL WATER AND MUNICIPAL SEWER.
- ALL PAVEMENT MARKING AND SIGNAGE SHALL CONFORM TO MUTCD STANDARDS.
- PROPOSED UTILITIES AND CONSTRUCTION METHODS UNDER AREAS SUBJECT TO TRAFFIC LOADING SHALL BE INSTALLED TO WITHSTAND H-20 LOADING STANDARDS. CONTRACTOR SHALL VERIFY THAT ALL STRUCTURES COMPLY TO THIS STANDARD.
- WHERE ALL CONCRETE STRUCTURES INTERCEPT THE SEASONAL HIGH GROUNDWATER TABLE, THE CONTRACTOR SHALL SEAL THE ENTIRE STRUCTURE WITH WATERPROOF SEALER.
- IF APPLICABLE, ANY RETAINING WALLS SHALL BE DESIGNED BY A MASSACHUSETTS REGISTERED PROFESSIONAL STRUCTURAL ENGINEER.
- ALL WORK SHALL CONFORM TO THE TOWN OF FAIRHAVEN RULES AND REGULATIONS AND THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY AND BRIDGES, MOST CURRENT VERSION OF PLAN SET.

**WAIVER REQUESTS:**

- THE FOLLOWING WAIVERS ARE REQUESTED FROM SECTION 19B-31.1 STORMWATER MANAGEMENT UNDER THE ZONING BYLAW:
- SECTION 19B-31.1.C.2.G.6 - BASIN SIDE SLOPES MUST BE 4H:1V. WE ARE PROPOSING 3:1. PORTIONS OF THE EXISTING BASIN ARE ALREADY GRADED AT 3:1.
  - SECTION 19B-31.1.C.2.K.1.C - SEDIMENT FOREBAY MUST BE 4' DEEP. WE ARE PROPOSING TO MODIFY THE EXISTING FOREBAY WHICH IS 1' DEEP TO BE 1.5' DEEP.
  - SECTION 19B-31.1-C.2.N.6 - DRAIN PIPES MUST BE A MINIMUM OF 12" DIAMETER AND HAVE A MINIMUM OF 2' OF COVER. WE ARE PROPOSING AN 8" AND TWO 10" DRAIN PIPES. PIPE CALCULATION SHOW THEY ARE CAPABLE OF CONVEYING RUNOFF FROM THE 100-YEAR STORM (SEE PIPE CALCULATIONS IN DRAINAGE REPORT). WE ARE PROPOSING A MINIMUM OF 1.5' COVER OVER ADS N-12 HOPE PIPE WHICH ONLY REQUIRES 1' OF COVER TO BE RATED FOR H-20 LOADING.
  - SECTION 19B-31.1-C.3.B - SAYS "NO UNDERGROUND INFILTRATION PRACTICES, SUCH AS LEACHING CATCH BASINS, SHALL BE ALLOWED." WE ARE PROPOSING AN UNDERGROUND CHAMBER FIELD WHICH HAS CATCH BASINS AS PRE-TREATMENT DEVICES.

ZONING SUMMARY AND COMPLIANCE TABLE (BUSINESS DISTRICT)		
CRITERIA	REQUIRED	PROPOSED
LOT AREA	15,000 S.F.	149,298± S.F.*
FRONTAGE	100'	227.57'*
FRONT BUILDING SETBACK	20'	26.3'
SIDE BUILDING SETBACK	10'	14.8'
REAR BUILDING SETBACK	10'	53.3'
BUILDING HEIGHT	40'	< 40'
MAX. LOT COVERAGE	70%	18.4% (27,465 S.F.)
MAX. BLDG. COVERAGE	25%	3.9% (5,850 S.F.)

\* WITH PROPOSED PROPERTY LINE AS SHOWN ON SHEET L

SCHEDULE OF DRAWINGS		
SHEET ID	PLAN TITLE	LATEST REVISION DATE
C	COVER SHEET	3/14/2024
X	EXISTING CONDITIONS PLAN	3/14/2024
L	LAYOUT PLAN	3/14/2024
G	GRADING AND DRAINAGE PLAN	3/14/2024
U	UTILITY PLAN	3/14/2024
V	LANDSCAPING PLAN	3/14/2024
E1	EROSION CONTROL PLAN	3/14/2024
E2	EROSION CONTROL PLAN	3/14/2024
D1	SITE DETAILS	3/14/2024
D2	SITE DETAILS	3/14/2024
D3	SITE DETAILS	3/14/2024



**LOCUS PLAN  
SCALE: 1"=500'**

**OWNER  
240B LLC  
275 MARTINE STREET  
FALL RIVER, MA 02724**

**APPLICANT  
CARRICORP INDUSTRIES, LTD.  
275 MARTINE STREET, SUITE 110  
FALL RIVER, MA 02724**

LEGEND		
EXISTING	DESCRIPTION	PROPOSED
[Symbol]	BUILDING	[Symbol]
[Symbol]	CONTOUR	[Symbol]
[Symbol]	SPOT GRADE	[Symbol]
[Symbol]	1000	[Symbol]
[Symbol]	10000	[Symbol]
[Symbol]	DRAINAGE BOUNDARY	[Symbol]
[Symbol]	TIME OF CONCENTRATION	[Symbol]
[Symbol]	SILT FENCE/SILT SOCK	[Symbol]
[Symbol]	HAYBALE LINE	[Symbol]
[Symbol]	CHAINLINK FENCE	[Symbol]
[Symbol]	STOCKADE FENCE	[Symbol]
[Symbol]	WIRE FENCE	[Symbol]
[Symbol]	GUARDRAIL	[Symbol]
[Symbol]	RAILROAD TRACKS	[Symbol]
[Symbol]	SIGN	[Symbol]
[Symbol]	MAILBOX	[Symbol]
[Symbol]	TEST PIT	[Symbol]
[Symbol]	UNKNOWN MANHOLE	[Symbol]
[Symbol]	DRAINAGE PIPE	[Symbol]
[Symbol]	ROOF DRAIN PIPE	[Symbol]
[Symbol]	CATCH BASIN	[Symbol]
[Symbol]	DOUBLE GRATE CATCH BASIN	[Symbol]
[Symbol]	CURB INLET	[Symbol]
[Symbol]	DRAIN MANHOLE	[Symbol]
[Symbol]	FLARED END	[Symbol]
[Symbol]	GAS MAIN	[Symbol]
[Symbol]	GAS SERVICE	[Symbol]
[Symbol]	GAS MANHOLE	[Symbol]
[Symbol]	GAS GATE/VALVE	[Symbol]
[Symbol]	GAS METER	[Symbol]
[Symbol]	CABLE	[Symbol]
[Symbol]	ELEC/TELE/CABLE	[Symbol]
[Symbol]	OVERHEAD WIRES	[Symbol]
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[Symbol]	UNDERGROUND TELEPHONE	[Symbol]
[Symbol]	ELECTRIC MANHOLE	[Symbol]
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[Symbol]	FIRE SUPPRESSION SERVICE	[Symbol]
[Symbol]	WATER MAIN	[Symbol]
[Symbol]	WATER SERVICE	[Symbol]
[Symbol]	HYDRANT	[Symbol]
[Symbol]	WATER GATE/VALVE	[Symbol]
[Symbol]	WATER SHUTOFF	[Symbol]
[Symbol]	WELL	[Symbol]
[Symbol]	WATER MANHOLE	[Symbol]
[Symbol]	MONITORING WELL	[Symbol]
[Symbol]	TREELINE	[Symbol]
[Symbol]	STONEWALL	[Symbol]
[Symbol]	WETLAND LINE	[Symbol]
[Symbol]	TOP OF BANK	[Symbol]
[Symbol]	FLOOD ZONE	[Symbol]
[Symbol]	EDGE OF WATER	[Symbol]
[Symbol]	ZONE A BOUNDARY	[Symbol]
[Symbol]	NATURAL HERITAGE BOUNDARY	[Symbol]
[Symbol]	WRPD BOUNDARY	[Symbol]
[Symbol]	25' BUFFER	[Symbol]
[Symbol]	50' BUFFER	[Symbol]
[Symbol]	75' BUFFER	[Symbol]
[Symbol]	100' BUFFER	[Symbol]
[Symbol]	150' BUFFER	[Symbol]
[Symbol]	100' RIPARIAN ZONE	[Symbol]
[Symbol]	200' RIPARIAN ZONE	[Symbol]
[Symbol]	WETLAND FLAG	[Symbol]
[Symbol]	BENCHMARK	[Symbol]
[Symbol]	CONTROL POINT	[Symbol]
[Symbol]	MAG NAIL	[Symbol]
[Symbol]	DRILLHOLE	[Symbol]
[Symbol]	CONCRETE BOUND	[Symbol]
[Symbol]	STONE BOUND	[Symbol]
[Symbol]	IRON PIPE	[Symbol]
[Symbol]	REBAR	[Symbol]

**ZCE**  
ZENITH CONSULTING ENGINEERS, LLC  
3 MAIN STREET LAKEVILLE, MA 02347  
PHONE: (508) 947-4208

REV.	DATE	DESCRIPTION	BY	APP.
1.	3-14-24	PER REVIEW COMMENTS	TEM	JLB

DATE	PROJECT NUMBER	DRAWING SCALE	SHEET ID
7/24/2023	1097-01-01	1" = 500'	C

DESIGNED BY:	CHECKED BY:	APPROVED BY:
RLG	RLG	JLB

**PLAN TITLE**  
COVER SHEET

**PROJECT SITE:** MAP 30A - LOT 87 & 87A BRIDGE ST. FAIRHAVEN, MASSACHUSETTS

**CURB INFO:** CARRICORP INDUSTRIES, LTD. 275 MARTINE STREET, SUITE 110 FALL RIVER, MA 02724

**SURVEY COMPANY OF RECORD:**

**ZLS**  
ZENITH LAND SURVEYORS, LLC  
1162 ROCKDALE AVE. NEW BEDFORD, MA 02740  
PHONE: (508) 995-0100

William J. McGovern  
March 14, 2024  
PROFESSIONAL LAND SURVEYOR, PLS DATE

**JULY 24, 2023  
REVISED MARCH 14, 2024**

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**SITE NOTES:**

1. THE SITE IS LISTED ON THE TOWN OF FAIRHAVEN ASSESSORS PROPERTY RECORD CARDS AS PARCEL ID 30A-087 AND 30A-87A.
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**SURVEY COMPANY OF RECORD:**

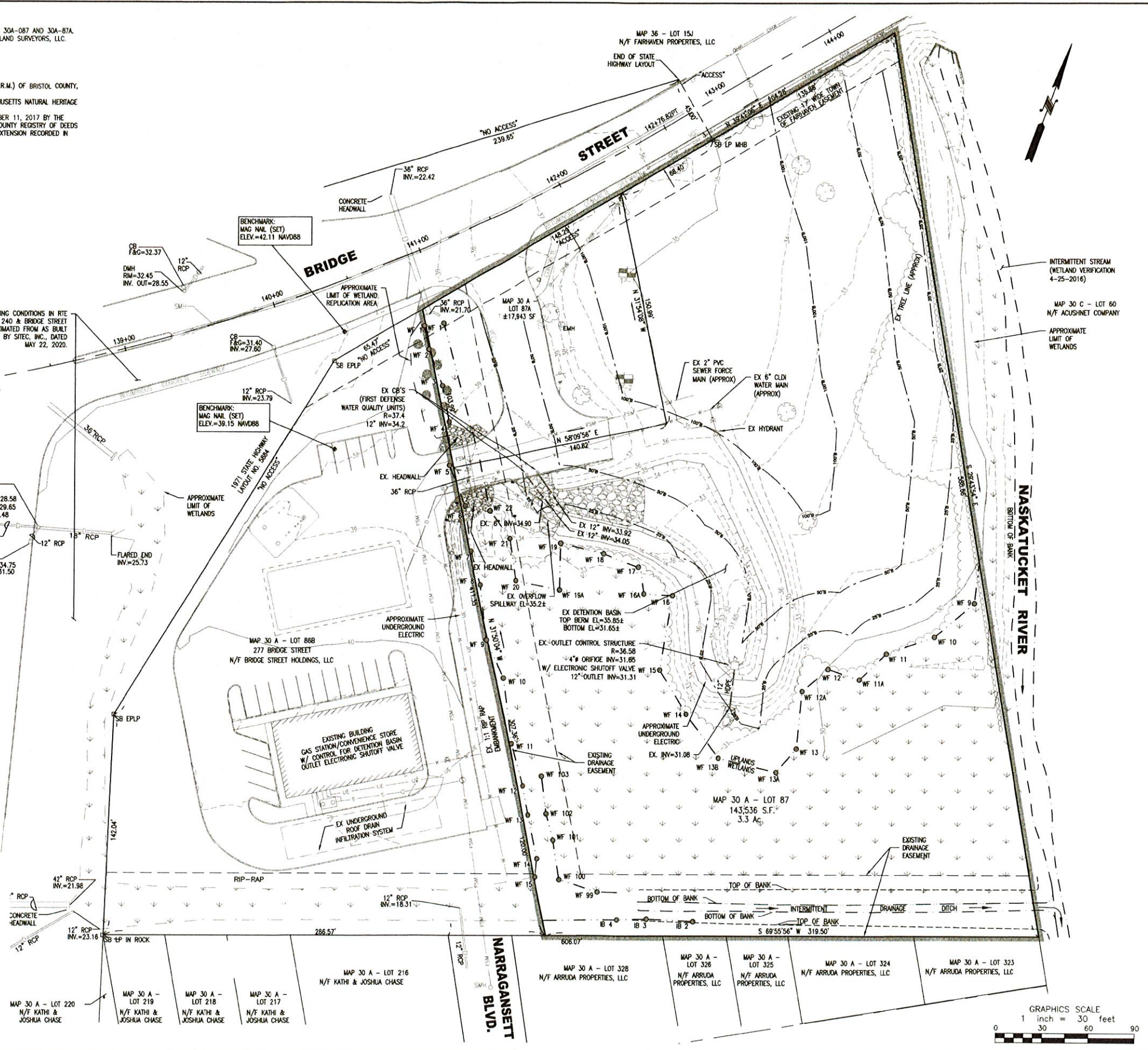



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PHONE: (508) 995-0100



WILLIAM JOSEPH MCGOVERN  
39692  
PROFESSIONAL LAND SURVEYOR

*William McGovern* March 14, 2024  
PROFESSIONAL LAND SURVEYOR, PLS DATE

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REV.	DATE	DESCRIPTION	BY	APP.
1.	3-14-24	PER REVIEW COMMENTS	TEM	JLB

DATE	PROJECT NUMBER	DRAWING SCALE	SHEET ID
7/24/2023	1027-01-01	1" = 30'	X

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
RLG	RLG	RHF	JLB

**SITE PLAN**  
**EXISTING CONDITIONS PLAN**  
PROJECT SITE: **MAP 30A - LOT 87 & 87A BRIDGE ST., FAIRHAVEN, MASSACHUSETTS**  
CLIENT INFO: **CARRICORP INDUSTRIES, LTD., 275 MARTINE STREET, SUITE 110, FALL RIVER, MA 02724**

GRAPHICS SCALE  
1 inch = 30 feet  
0 30 60 90

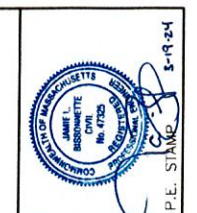
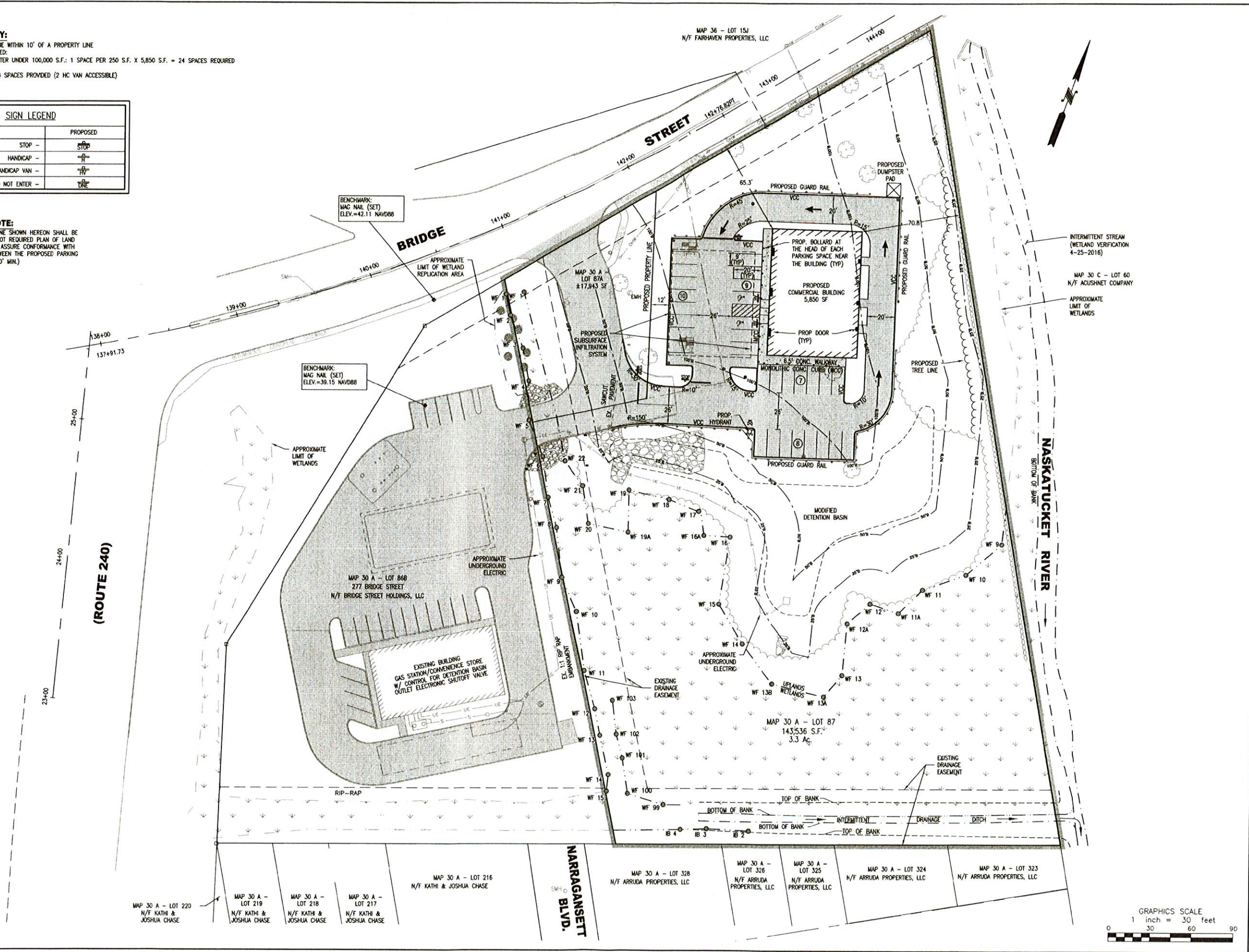
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**PARKING SUMMARY:**  
 NO PARKING SPACE SHALL BE WITHIN 10' OF A PROPERTY LINE  
 NUMBER OF SPACES REQUIRED:  
 RETAIL/SHOPPING CENTER UNDER 100,000 S.F.: 1 SPACE PER 250 S.F. X 5,850 S.F. = 24 SPACES REQUIRED  
 TOTAL SPACES PROVIDED: 34 SPACES PROVIDED (2 HC VAN ACCESSIBLE)

SIGN LEGEND	
	PROPOSED
STOP	
HANDICAP	
HANDICAP VAN	
DO NOT ENTER	

**PROPERTY LINE NOTE:**  
 THE PROPOSED PROPERTY LINE SHOWN HEREON SHALL BE CREATED BY AN APPROVAL NOT REQUIRED PLAN OF LAND PRIOR TO CONSTRUCTION TO ASSURE CONFORMANCE WITH THE SETBACK REQUIRED BETWEEN THE PROPOSED PARKING LOT TO A PROPERTY LINE (10' MIN.)



**ZENITH CONSULTING ENGINEERS, LLC**  
 3 MAIN STREET LAKEVILLE, MA 02347  
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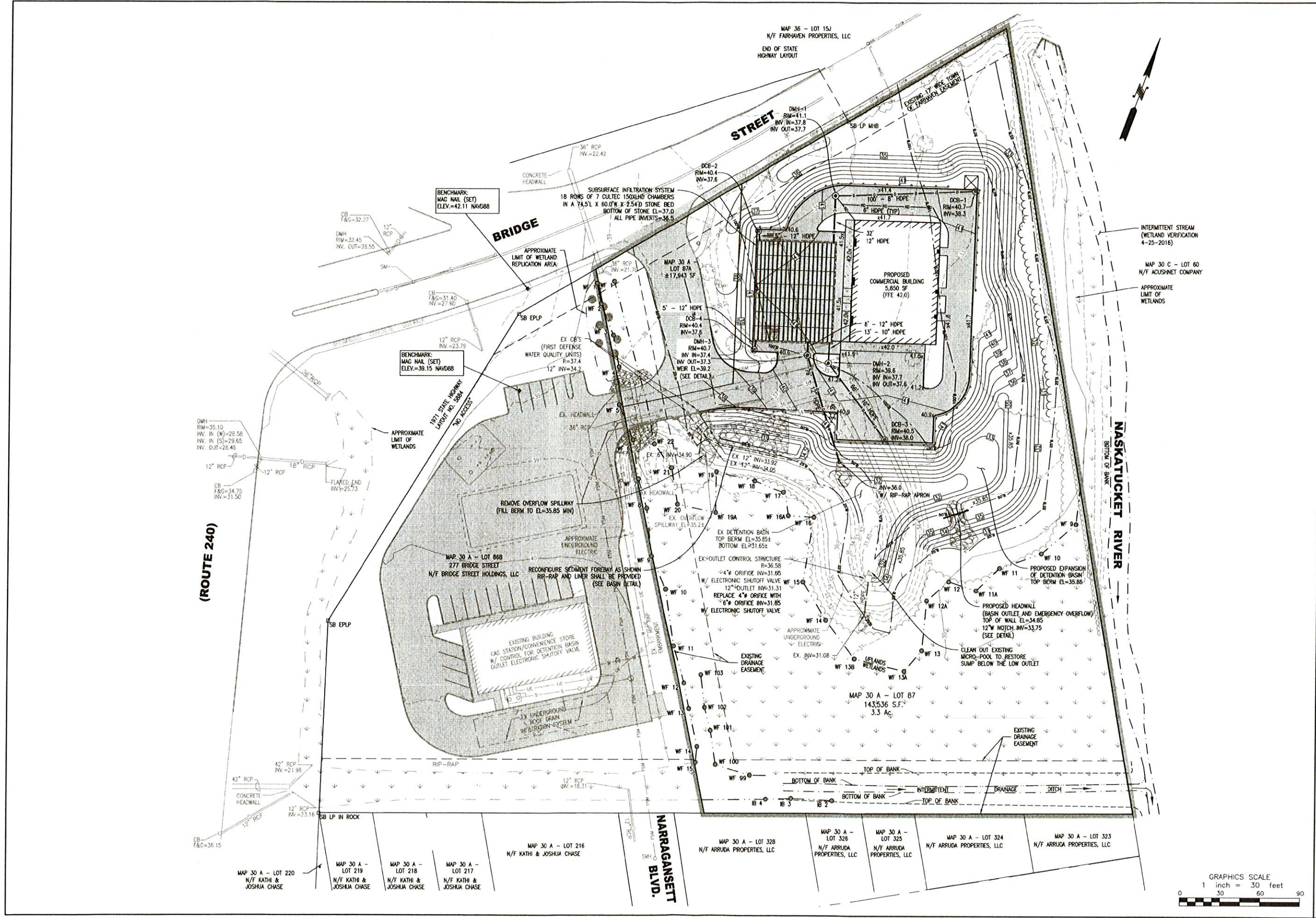
**SITE PLAN LAYOUT PLAN**  
**MAP 30A - LOT 87 & 87A BRIDGE ST. FAIRHAVEN, MASSACHUSETTS**  
**CARRICORP INDUSTRIES, LTD.**  
 275 MARTINE STREET, SUITE 110 FALL RIVER, MA 02724

DATE: 7/24/2023  
 PROJECT NUMBER: 1057-01-01  
 DRAWING SCALE: 1" = 30'  
 SHEET ID: L

DESIGNED BY: RLG  
 CHECKED BY: RWF  
 APPROVED BY: JLB

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**ZCE**  
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 3 MAIN STREET LAKEVILLE, MA 02347  
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DATE	REV.	DESCRIPTION	BY	APP.
7/24/2023	1.	3-14-24 PER REVIEW COMMENTS		

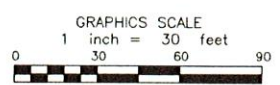
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7/24/2023	1057-01-01	1" = 30'	C

DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY
RLG	RLG	RLG	JLB

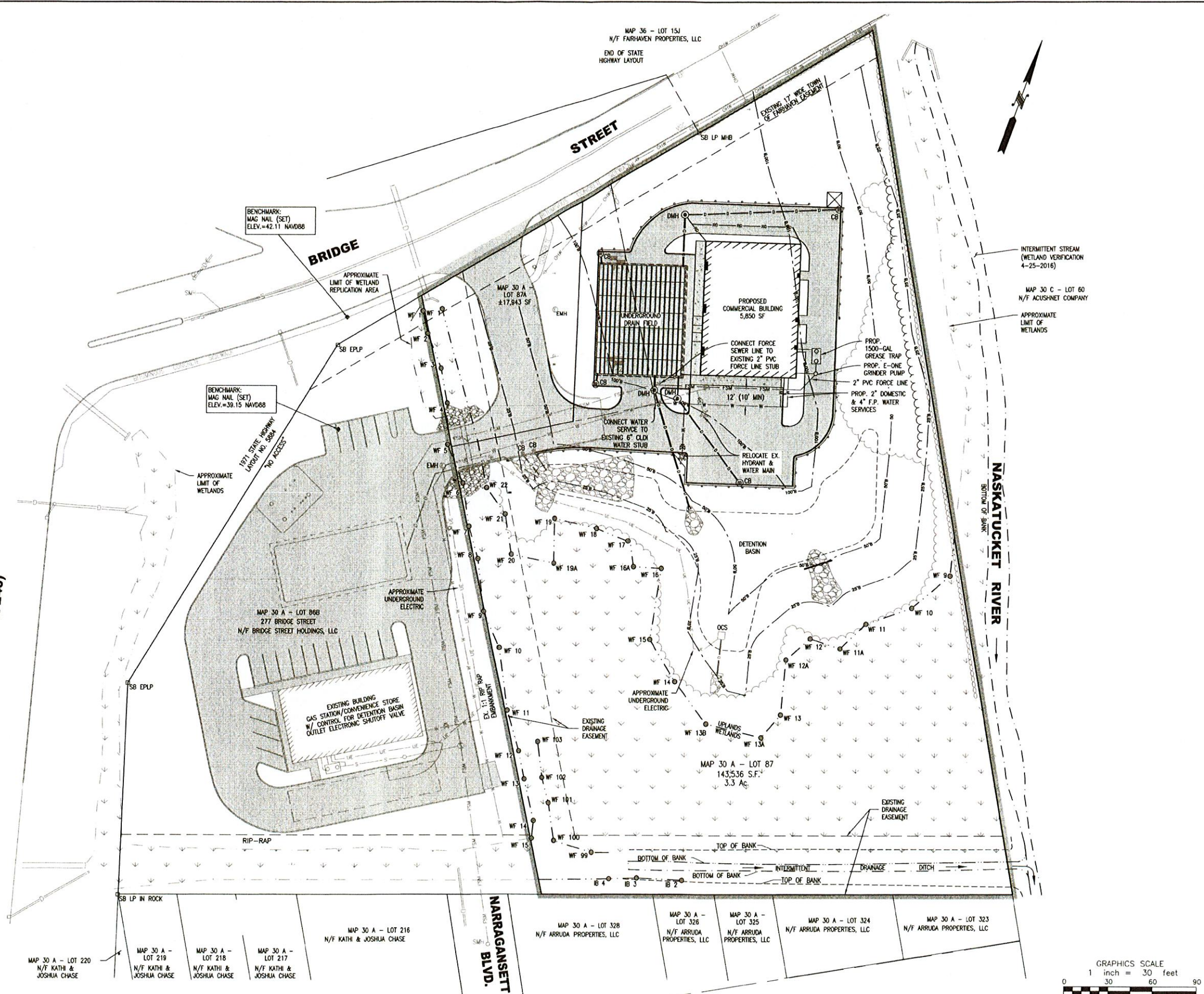
  

SHEET NAME
<b>SITE PLAN</b>
<b>GRADING &amp; DRAINAGE PLAN</b>
<b>MAP 30A - LOT 87 &amp; 87A BRIDGE ST.</b>
<b>FAIRHAVEN, MASSACHUSETTS</b>
<b>CLIENT INFO:</b>
<b>CARRICORP INDUSTRIES, LTD.</b>
<b>275 MARTINE STREET, SUITE 110</b>
<b>FALL RIVER, MA 02724</b>



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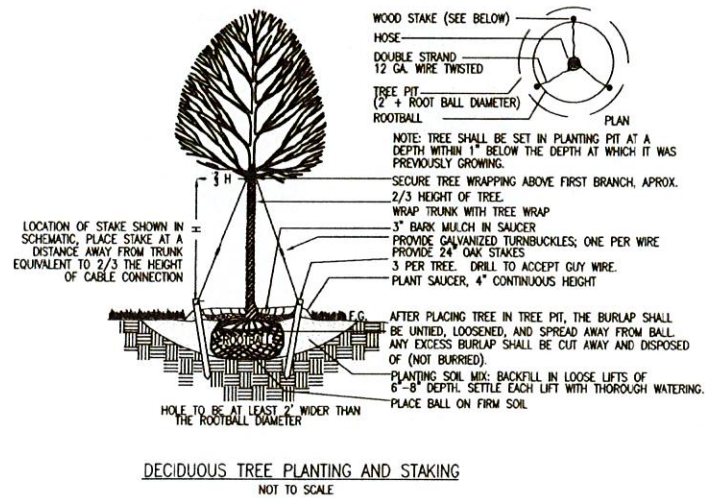




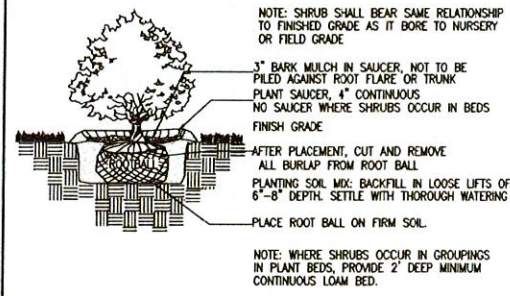
<b>ZCE</b> ZENITH CONSULTING ENGINEERS, LLC 3 MAIN STREET LAKEVILLE, MA 02347 PHONE: (508) 947-4208	
SHEET NAME: <b>SITE PLAN</b> <b>UTILITY PLAN</b>	
PROJECT SITE: <b>MAP 30A - LOT 87 &amp; 87A BRIDGE ST. FAIRHAVEN, MASSACHUSETTS</b>	PROJECT NUMBER: 1057-01-01
CLIENT INFO: <b>CARRICORP INDUSTRIES, LTD. 275 MARTINE STREET, SUITE 110 FALL RIVER, MA 02724</b>	DRAWING SCALE: 1" = 30' SHEET ID: U
DRAWN BY: RLG DESIGNED BY: RLG CHECKED BY: RNF APPROVED BY: JLB	DATE: 7/24/2023 REV. 1. 3-14-24 PER REVIEW COMMENTS
REV. DATE DESCRIPTION 1. 3-14-24 PER REVIEW COMMENTS	BY APP. TEM. JLB

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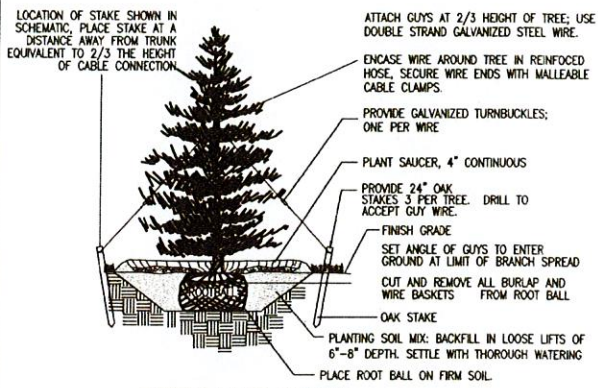




DECIDUOUS TREE PLANTING AND STAKING  
NOT TO SCALE



TYPICAL SHRUB PLANTING  
NOT TO SCALE

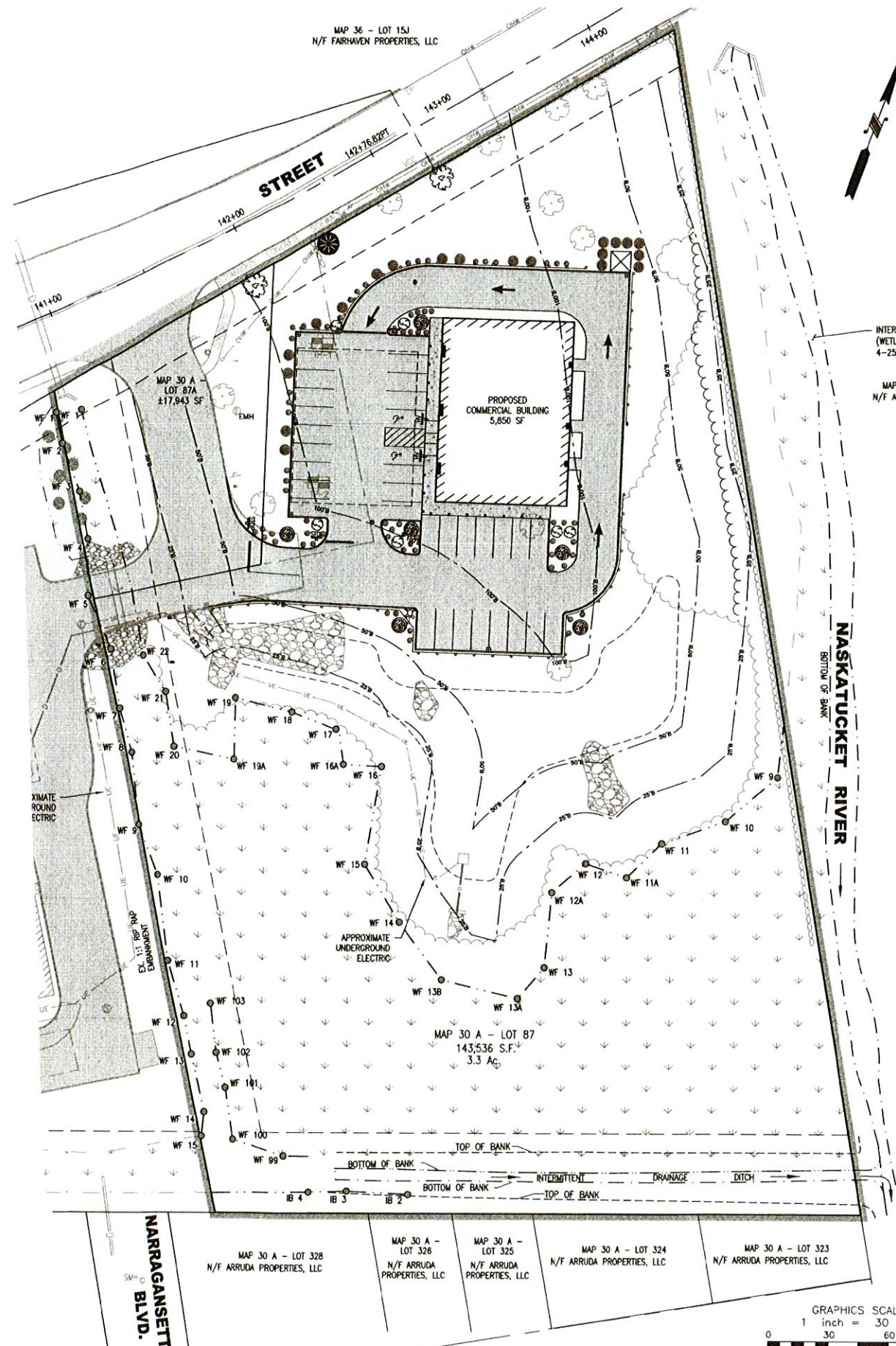


EVERGREEN TREE PLANTING  
NOT TO SCALE

PLANTING SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
	CORNUS KOUSA	KOUSA DOGWOOD	10' HEIGHT (MIN.) 2.5" CALIPER (MIN.)
	Azalea "Delaware Valley"	Delaware Valley White Azalea	2' HEIGHT (MIN.)
	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	2' HEIGHT (MIN.)
	QUERCUS RUBRA	RED OAK	6' HEIGHT (MIN.) 2.5" CALIPER (MIN.)
	ILEX OPACA	AMERICAN HOLLY	6' HEIGHT (MIN.) 2.5" CALIPER (MIN.)
	THUJA "GREE GIANT"*	GREEN GIANT ARBORVITAE	6' HEIGHT (MIN.)

\*\*NOTE: ARBORVITAE ROW SHALL BE MAINTAINED AND WATERED FOR A PERIOD OF ONE (1) YEAR AFTER INITIAL PLANTING



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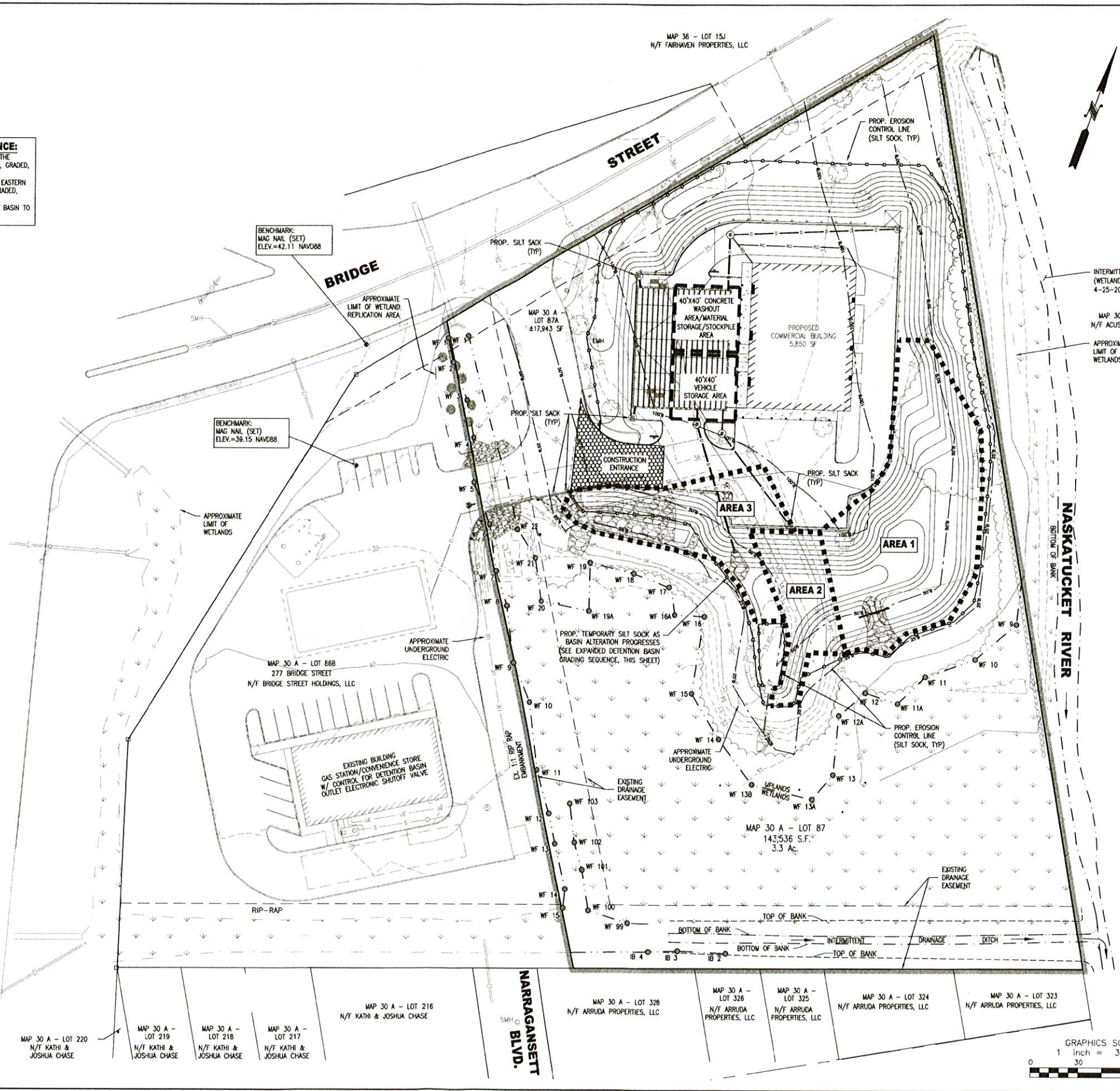
SHEET NAME: **SITE PLAN**  
**LANDSCAPING PLAN**  
 PROJECT SITE: **MAP 30A - LOT 87 & 87A BRIDGE ST. FAIRHAVEN, MASSACHUSETTS**  
 CLIENT INFO: **CARRICORP INDUSTRIES, LTD. 275 MARTINE STREET, SUITE 110 FALL RIVER, MA 02724**



**EXPANDED DETENTION BASIN GRADING SEQUENCE:**

- BEFORE ANY ALTERATION TO THE EXISTING BASIN IS CONDUCTED, THE EASTERN PORTION OF THE EXPANDED BASIN SHALL BE EXCAVATED, GRADED, AND STABILIZED AS SHOWN HEREON (AREA 1).
- ONCE THE EXPANDED PORTION OF THE BASIN IS STABILIZED, THE EASTERN PORTION OF THE EXISTING BASIN BERM SHALL BE REMOVED, REGRADED, AND STABILIZED AS SHOWN HEREON (AREA 2).
- ONCE AREA 2 HAS BEEN ESTABLISHED, THE PORTION OF EXISTING BASIN TO BE FILLED/MODIFIED MAY TAKE PLACE (AREA 3).

(ROUTE 240)



**ZCE**  
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DRAWN BY:	RLG
DESIGNED BY:	RLG
CHECKED BY:	RNF
APPROVED BY:	JLB

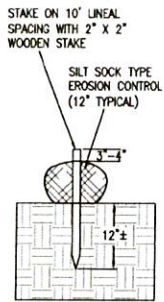
**SITE PLAN  
EROSION CONTROL PLAN**

**MAP 30A - LOT 87 & 87A BRIDGE ST.  
FAIRHAVEN, MASSACHUSETTS**

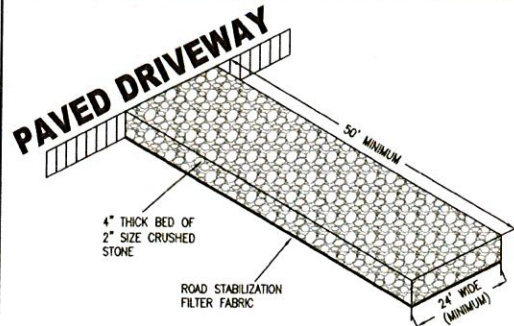
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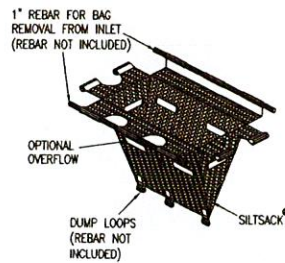
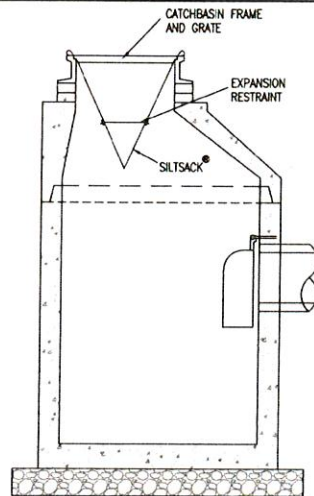




SILT SOCK DETAIL  
NOT TO SCALE



CONSTRUCTION ENTRANCE  
NOT TO SCALE



- NOTES:
1. THE SILTSACK® WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.
  2. SILTSACKS WILL BE INSTALLED IN ALL NEW CATCHBASINS IN ADDITION TO EXISTING CATCHBASINS NOTED ON THIS PLAN.

SILTSACK® REGULAR FLOW

PROPERTIES	TEST METHOD	UNITS	TEST RESULTS
GRAB TENSILE	ASTM D-4632	LBS	167.5X300
GRAB ELONGATION	ASTM D-4632	%	10X15
PUNCTURE STRENGTH	ASTM D-4533	LBS.	900
TRAPEZOID TEAR	ASTM D-4533	LBS.	65X90
UV RESISTANCE (Ø500 HRS)	ASTM D-4355	%	96
AOS	ASTM D-4751	US SEIVE	30
FLOW RATE	ASTM D-4491	GAL/MIN/FT²	66
PERMITTIVITY	ASTM D-4491	SEC-1	0.862

DETAIL OF INLET SEDIMENT CONTROL DEVICE ("SILT SACK")  
NOT TO SCALE

EROSION AND SEDIMENTATION CONTROL NOTES

THE FOLLOWING MEASURES SHALL BE MAINTAINED THROUGHOUT THE SITE CONSTRUCTION PHASE OF THE PROJECT.

CATCH BASIN PROTECTION

PROPOSED CATCH BASINS SHALL BE PROTECTED WITH SILT SACKS PRIOR TO THE COMPLETION OF PAVING. IF EXCESSIVE SILTATION IS DISCOVERED TO BE ENTERING THE CATCH BASIN INLETS, THEN HAY BALES SHALL ALSO BE PLACED AROUND GRATES AND CATCH BASINS WITHIN THE CONSTRUCTION/DEMOLITION AREAS TO ENSURE THAT RUNOFF ENTERING THE CATCH BASIN HAS BEEN FILTERED THROUGH THE BALES PRIOR TO DISCHARGE.

STABILIZED CONSTRUCTION ENTRANCE

A TEMPORARY STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. THE PURPOSE OF THE CONSTRUCTION ENTRANCE IS TO REMOVE SEDIMENT ATTACHED TO VEHICLE TIRES AND MINIMIZE ITS TRANSPORT AND DEPOSITION ONTO PUBLIC ROAD SURFACES. THE CONSTRUCTION ENTRANCE SHALL BE COMPOSED OF A 6-INCH THICK (MINIMUM) BED OF 2-INCH DIAMETER CRUSHED STONE THAT EXTENDS A MINIMUM OF 50 FEET. THE CONSTRUCTION ENTRANCE SHALL BE A MINIMUM OF 25 FEET WIDE, AND SHALL FLARE TO A MINIMUM WIDTH OF 45 FEET WIDE AT THE JUNCTION WITH THE ROADWAY. THE CRUSHED STONE BED SHALL BE REMOVED AND REPLENISHED AS NECESSARY TO MAINTAIN THE PROPER FUNCTION.

EROSION AND SEDIMENT CONTROL - MAINTENANCE

THE PROJECT GENERAL CONTRACTOR SHALL HAVE PRIMARY RESPONSIBILITY FOR IMPLEMENTING TEMPORARY AND PERMANENT CONTROLS DESCRIBED IN THE PLAN AND SHALL BE RESPONSIBLE FOR ASSURING CONTRACTOR COMPLIANCE WITH CONTRACT DOCUMENTS INCLUDING ALL EROSION AND SEDIMENT CONTROL MEASURES.

- DAMAGED OR DETERIORATED ITEMS SHALL BE REPAIRED OR REPLACED IMMEDIATELY AFTER IDENTIFICATION.
- THE UNDERSIDE OF HAYBALES SHOULD BE KEPT IN CLOSE CONTACT WITH THE EARTH AND RESET AS NECESSARY.
- SILT SOCKS SHALL BE INSPECTED AFTER EVERY MAJOR RAINFALL RUNOFF EVENT (OVER 1/2" DEPTH OF PRECIPITATION) OR EVERY 14 DAYS, WHICHEVER OCCURS FIRST. ALL DAMAGED OR MISALIGNED FENCES SHALL BE IMMEDIATELY REPAIRED. SILT SOCKS SHALL BE IMMEDIATELY REMOVED FROM ALL AREAS OF THE SILT FENCE WHEN DEPTH OF ACCUMULATION EXCEEDS 9 INCHES. EACH REPORT SHALL BE DOCUMENTED ON THE FORM ENCLOSED IN APPENDIX E.
- SUMPS SHALL BE INSPECTED AFTER EVERY MAJOR RAINFALL RUNOFF EVENT (OVER 1/2" DEPTH OF PRECIPITATION) OR EVERY 14 DAYS, WHICHEVER OCCURS FIRST. SILT SHALL BE IMMEDIATELY REMOVED FROM ALL SUMPS WHERE THE DEPTH OF ACCUMULATION EXCEEDS 9 INCHES.
- ALL EXPOSED CONSTRUCTION AREAS SHALL BE STABILIZED UPON COMPLETION IN ORDER TO MINIMIZE THE TIME THAT THESE AREAS ARE UNSTABILIZED.

MATERIALS MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF. THE CONTRACTOR'S SUPERINTENDENT SHALL BE RESPONSIBLE FOR ENSURING THAT THESE PROCEDURES ARE FOLLOWED:

1. GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON-SITE DURING CONSTRUCTION:

- AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB.
- ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER AND, IF POSSIBLE, UNDER A ROOF OR IN A CONTAINMENT AREA. AT A MINIMUM, ALL CONTAINERS SHALL BE STORED WITH THEIR LIDS ON WHEN NOT IN USE. DRIP PANS SHALL BE PROVIDED UNDER ALL DISPENSERS.
- PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL IN LEGIBLE CONDITION.
- SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING THE CONTAINER.
- MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
- THE CONTRACTOR'S SUPERINTENDENT SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.

2. HAZARDOUS SUBSTANCES

THESE PRACTICES SHALL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS SUBSTANCES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH PRODUCT WITH HAZARDOUS PROPERTIES THAT IS USED AT THE PROJECT SHALL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS SHALL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS SHALL BE MAINTAINED IN THE JOB TRAILER AT THE PROJECT. EACH EMPLOYEE WHO MUST HANDLE A HAZARDOUS SUBSTANCE SHALL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

- PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS WITH THE ORIGINAL LABELS IN LEGIBLE CONDITION.
- ORIGINAL LABELS AND MSDS'S SHALL BE PROCURED AND USED FOR EACH PRODUCT.
- IF SURPLUS PRODUCT MUST BE DISPOSED, MANUFACTURER'S AND LOCAL/STATE/FEDERAL REQUIRED METHODS FOR PROPER DISPOSAL MUST BE FOLLOWED.

3. HAZARDOUS WASTE

IT IS IMPERATIVE THAT ALL HAZARDOUS WASTE BE PROPERLY IDENTIFIED AND HANDLED IN ACCORDANCE WITH ALL APPLICABLE HAZARDOUS WASTE STANDARDS, INCLUDING THE STORAGE, TRANSPORT AND DISPOSAL OF THE HAZARDOUS WASTES. THERE ARE SIGNIFICANT PENALTIES FOR THE IMPROPER HANDLING OF HAZARDOUS WASTES. IT IS IMPORTANT THAT THE SITE SUPERINTENDENT SEEKS APPROPRIATE ASSISTANCE IN MAKING THE DETERMINATION OF WHETHER A SUBSTANCE OR MATERIAL IS A HAZARDOUS WASTE. FOR EXAMPLE, HAZARDOUS WASTE MAY INCLUDE CERTAIN HAZARDOUS SUBSTANCES, AS WELL AS PESTICIDES, PAINTS, PAINT SOLVENTS, CLEANING SOLVENTS, PESTICIDES, CONTAMINATED SOILS, AND OTHER MATERIALS, SUBSTANCES OR CHEMICALS THAT HAVE BEEN DISCARDED (OR ARE TO BE DISCARDED) AS BEING OUT-OF-DATE, CONTAMINATED, OR OTHERWISE UNUSABLE, AND CAN INCLUDE THE CONTAINERS FOR THOSE SUBSTANCES; OTHER MATERIALS AND SUBSTANCES CAN ALSO BE OR BECOME HAZARDOUS WASTES, HOWEVER. THE CONTRACTOR'S SUPERINTENDENT IS ALSO RESPONSIBLE FOR ENSURING THAT ALL SITE PERSONNEL ARE INSTRUCTED AS TO THESE HAZARDOUS WASTE REQUIREMENTS AND ALSO THAT THE REQUIREMENTS ARE BEING FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ON THE JOB SITE:

PETROLEUM PRODUCTS

ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. PETROLEUM STORAGE TANKS SHALL BE LOCATED AT MINIMUM 100 LINEAR FEET FROM DRAINAGE WAYS, INLETS AND SURFACE WATERS. ANY PETROLEUM STORAGE TANKS STORED ON-SITE SHALL BE LOCATED WITHIN A CONTAINMENT AREA THAT IS DESIGNED WITH AN IMPERVIOUS SURFACE BETWEEN THE TANK AND THE GROUND. THE SECONDARY CONTAINMENT MUST BE DESIGNED TO PROVIDE A CONTAINMENT VOLUME THAT IS EQUAL TO 110% OF THE VOLUME OF THE LARGEST TANK. ANY MOBILE PETROLEUM TANK SHALL BE PARKED IN A VEHICULAR SERVICE AREA SURROUNDED BY A BERM THAT PROVIDES A CONTAINMENT VOLUME THAT IS EQUAL TO 110% OF THE VOLUME OF THE LARGEST TANK. CONTAINMENT MUST PROVIDE SUFFICIENT VOLUME TO CONTAIN EXPECTED PRECIPITATION AND 110% VOLUME OF THE LARGEST TANK. ACCUMULATED RAINWATER OR SPILLS FROM CONTAINMENT AREAS ARE TO BE PROMPTLY PUMPED INTO A CONTAINMENT DEVICE AND DISPOSED PROPERLY BY A LICENSED HAZARDOUS WASTE TRANSPORTER. DRIP PANS SHALL BE PROVIDED FOR ALL DISPENSERS. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. THE LOCATION OF ANY FUEL TANKS AND/OR EQUIPMENT STORAGE AREAS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

FERTILIZERS

FERTILIZERS SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER SHALL BE WORKED IN THE SOIL TO LIMIT EXPOSURE TO STORMWATER. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

CLEANING SOLVENTS

ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT IN USE. EXCESS SOLVENTS SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM, BUT SHALL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND FEDERAL REGULATIONS.

CONCRETE WASTES

CONCRETE TRUCKS SHALL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE PROJECT SITE, BUT ONLY IN SPECIFICALLY DESIGNATED Diked AND IMPERVIOUS WASHOUTS WHICH HAVE BEEN PREPARED TO PREVENT CONTACT BETWEEN THE CONCRETE WASH AND STORMWATER. WASTE GENERATED FROM CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW INTO DRAINAGE WAYS, INLETS, RECEIVING WATERS OR ANY LOCATION OTHER THAN THE DESIGNATED CONCRETE WASHOUT. WASTE CONCRETE MAY BE POURED INTO FORMS TO MAKE RIP-RAP OR OTHER USEFUL CONCRETE PRODUCTS. CONCRETE WASHOUTS SHALL BE LOCATED AT MINIMUM 100 LINEAR FEET FROM DRAINAGE WAYS, INLETS, SURFACE WATERS AND WETLAND RESOURCE AREAS.

THE HARDENED RESIDUE FROM THE CONCRETE WASHOUT DIKED AREAS SHALL BE DISPOSED IN THE SAME MANNER AS OTHER NON-HAZARDOUS CONSTRUCTION WASTE MATERIALS OR MAY BE BROKEN UP AND USED ON SITE AS DREEM APPROPRIATE BY THE CONTRACTOR. MAINTENANCE OF THE WASHOUT IS TO INCLUDE REMOVAL OF HARDENED CONCRETE. FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY AND SHALL BE CLEANED OUT ONCE 75% FULL UNLESS A NEW FACILITY IS CONSTRUCTED. THE CONTRACTOR'S SUPERINTENDENT SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED. SAW-CUT PORTLAND CEMENT CONCRETE (PCC) SLURRY SHALL NOT BE ALLOWED TO ENTER STORM DRAINS OR WATERCOURSES. SAW-CUT RESIDUE SHOULD NOT BE LEFT ON THE SURFACE OF PAVEMENT OR BE ALLOWED TO FLOW OVER AND OFF PAVEMENT. RESIDUE FROM SAW-CUTTING AND GRINDING SHALL BE COLLECTED BY VACUUM AND DISPOSED OF IN THE CONCRETE WASHOUT FACILITY.

SOLID AND CONSTRUCTION WASTES

ALL WASTE MATERIALS SHALL BE COLLECTED AND DISPOSED OF AT AN APPROPRIATE SOLID WASTE DISPOSAL AREA.

SANITARY WASTE

A MINIMUM OF ONE PORTABLE SANITARY UNIT SHALL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS SHALL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGES IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BUPS MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORMWATER DISCHARGES.

CONTAMINATED SOILS

ANY CONTAMINATED SOILS (RESULTING FROM SPILLS OF HAZARDOUS SUBSTANCES OR OIL OR DISCOVERED DURING THE COURSE OF CONSTRUCTION) WHICH MAY RESULT FROM CONSTRUCTION ACTIVITIES SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY IN ACCORDANCE WITH THE PROCEDURES GIVEN IN THE MATERIAL MANAGEMENT PLAN AND IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS. CONTAMINATED SOILS NOT RESULTING FROM CONSTRUCTION ACTIVITIES, OR WHICH PRE-EXISTED CONSTRUCTION ACTIVITIES, BUT WHICH ARE DISCOVERED BY VIRTUE OF CONSTRUCTION ACTIVITIES, SHOULD BE REPORTED IN THE SAME MANNER AS SPILLS, BUT WITH SUFFICIENT INFORMATION TO INDICATE THAT THE DISCOVERY OF AN EXISTING CONDITION IS BEING REPORTED. IF THERE IS A RELEASE THAT OCCURS BY VIRTUE OF THE DISCOVERY OF EXISTING CONTAMINATION, THIS SHOULD BE REPORTED AS A SPILL, IF IT OTHERWISE MEETS THE REQUIREMENTS FOR A REPORTABLE SPILL.



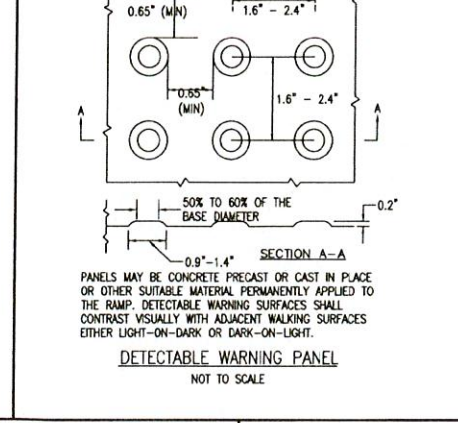
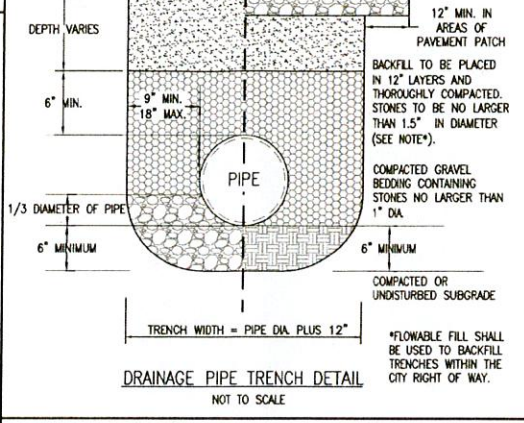
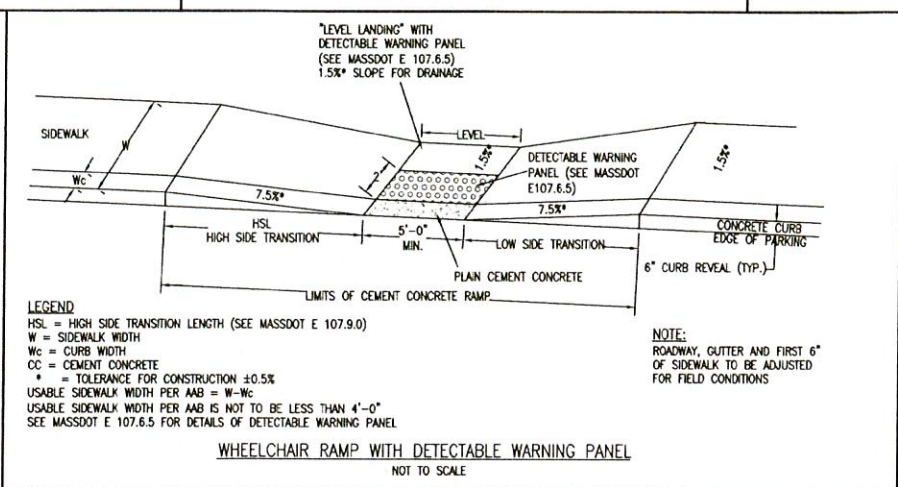
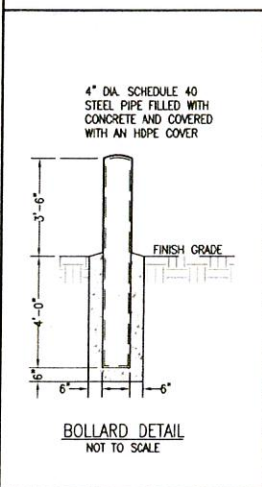
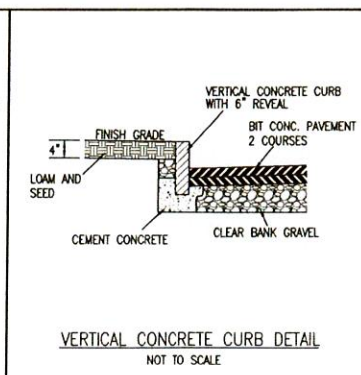
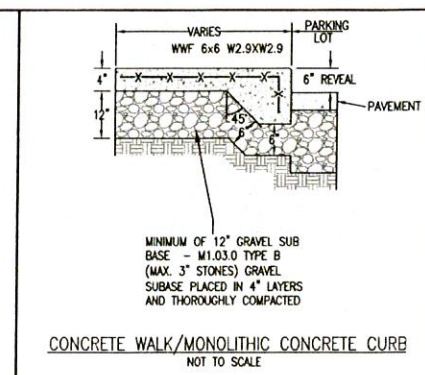
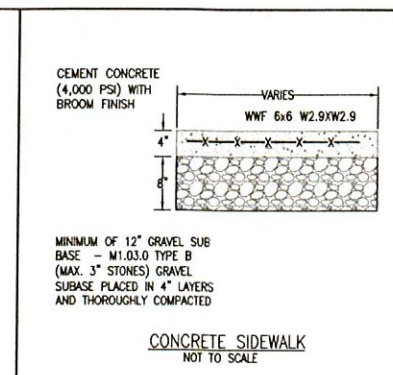
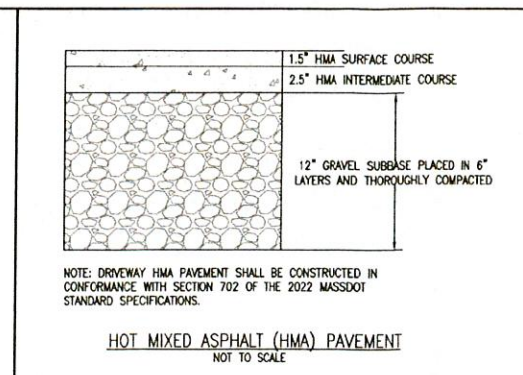
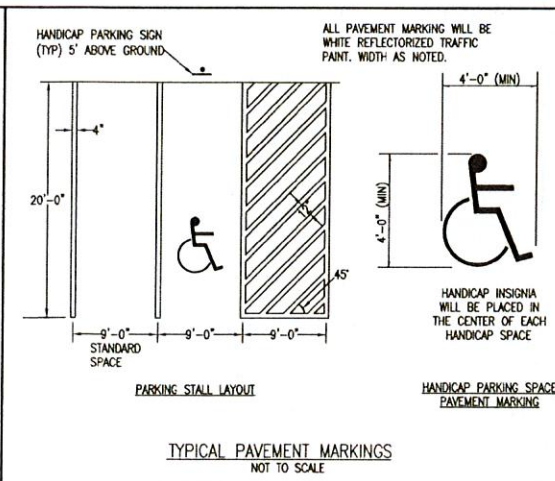
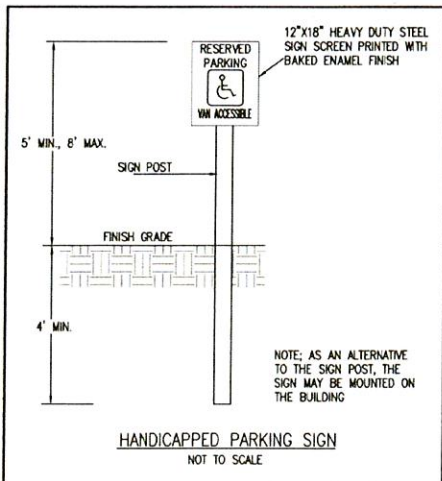
ZENITH CONSULTING ENGINEERS, LLC  
3 MAIN STREET LAKEVILLE, MA 02347  
PHONE: (608) 947-4208



REV.	DATE	DESCRIPTION	BY	APP.
1.	3-14-24	PER REVIEW COMMENTS	TEM	JLB

SHEET NAME: SITE PLAN  
EROSION CONTROL PLAN  
PROJECT SITE: MAP 30A - LOT 87 & 87A BRIDGE ST. FAIRHAVEN, MASSACHUSETTS  
CLIENT INFO: CARRICORP INDUSTRIES, LTD. 275 MARTINE STREET, SUITE 110 FALL RIVER, MA 02724  
DATE: 7/24/2023  
PROJECT NUMBER: 1087-01-01  
DRAWING SCALE: 1" = 30'  
SHEET ID: E2



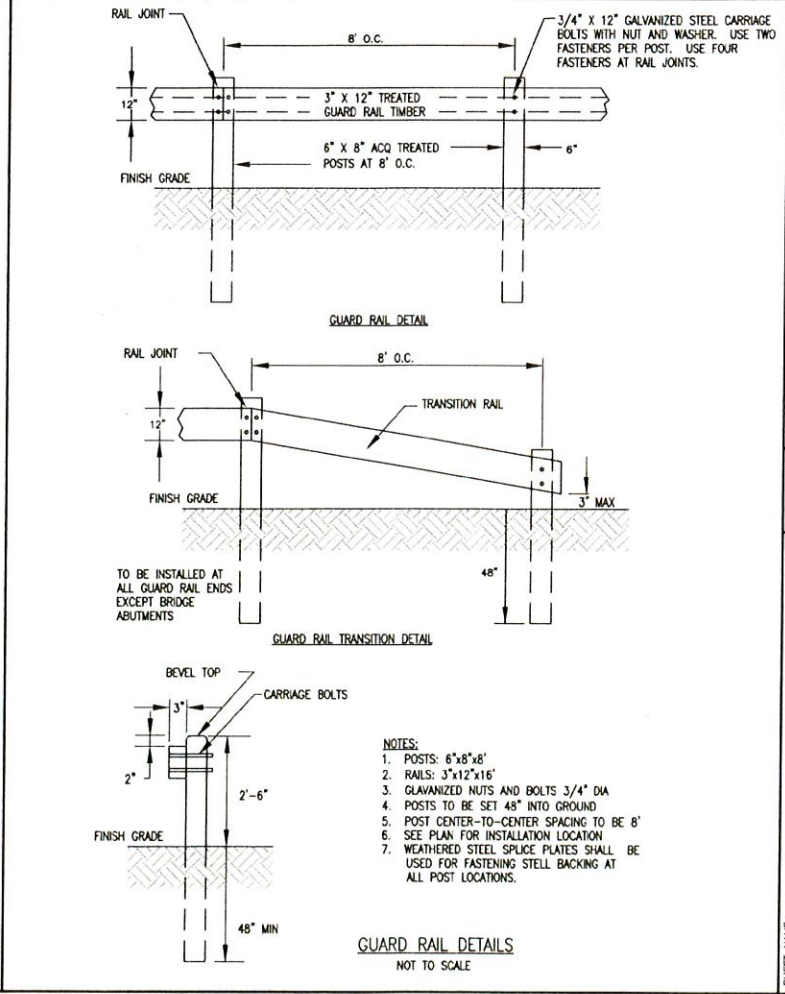
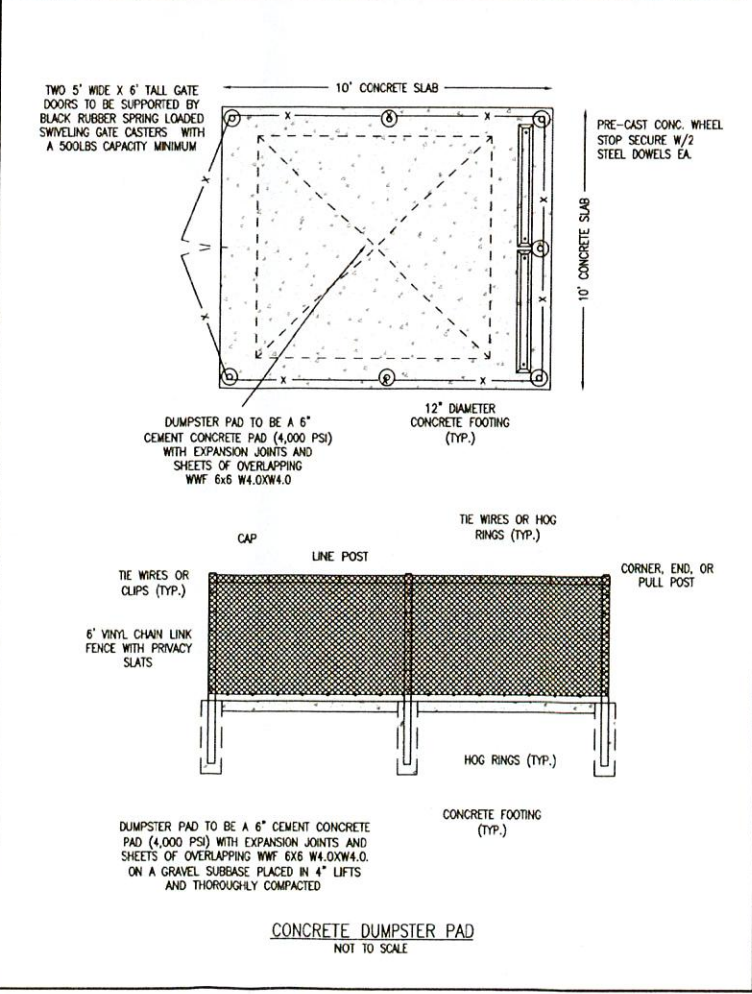
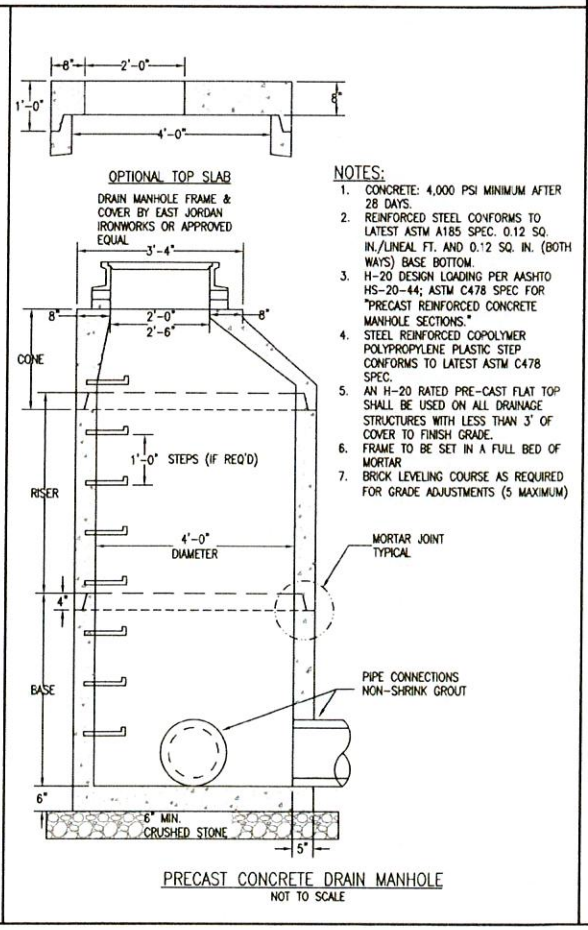
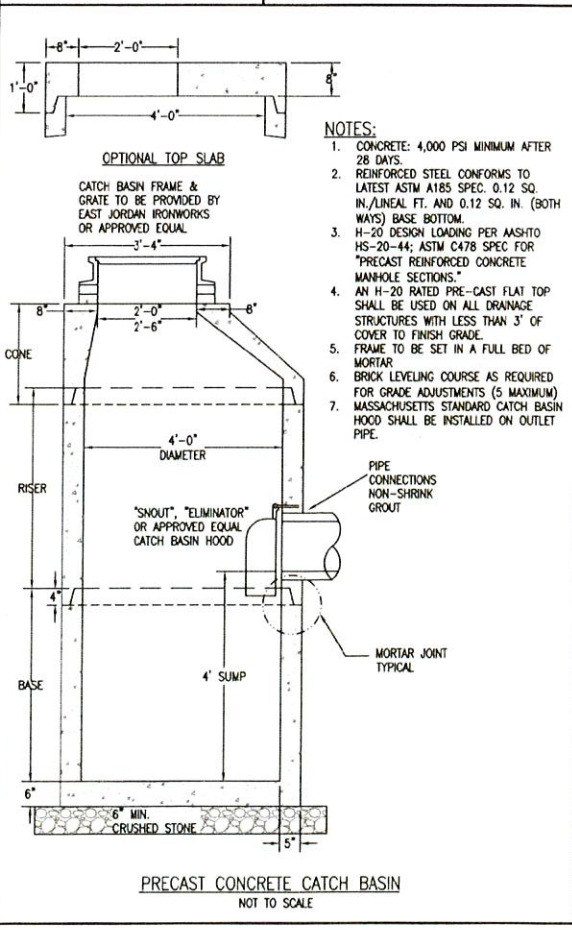


**SOIL LOGS:**  
PERFORMED ON: 7/21/2023  
PERFORMED BY: JAMIE BISSONNETTE, ZENITH CONSULTING ENG., LLC.

DEPTH (INCHES)	TP-1 ELEV. (FEET)	DEPTH (INCHES)	TP-2 ELEV. (FEET)
0	35.1	0	35.7
14	34.0	30	33.2
26	32.9	37	33.6
98	27.0	43	33.1
		86	28.4

MOTTLING @ 26"  
WEEPING @ 98"  
STANDING @ NONE  
ESHW EL = 32.9

MOTTLING @ NONE  
WEEPING @ NONE  
STANDING @ NONE  
ESHW EL = NONE



**ZCE**  
ZENITH CONSULTING ENGINEERS, LLC  
3 MAIN STREET LAKEVILLE, MA 02347  
PHONE: (508) 947-4208

DATE: 7/24/2023  
PROJECT NUMBER: 1027-01-01  
DRAWING SCALE: AS SHOWN  
SHEET ID: D1

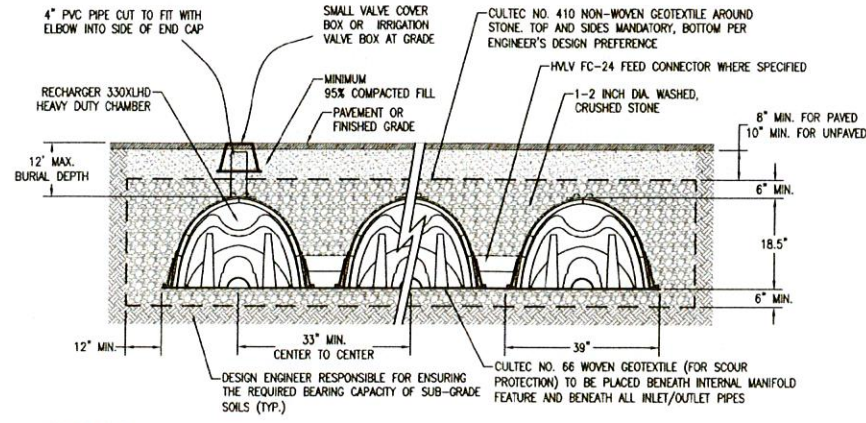
**SITE PLAN**  
SITE DETAILS

PROJECT SITE: MAP 30A - LOT 87 & 87A BRIDGE ST., FAIRHAVEN, MASSACHUSETTS  
CLIENT INFO: CARRICORP INDUSTRIES, LTD., 275 MARINE STREET, SUITE 110, FALL RIVER, MA 02724

REVISIONS:  
REV. DATE DESCRIPTION  
1. 3-14-24 PER REVIEW COMMENTS

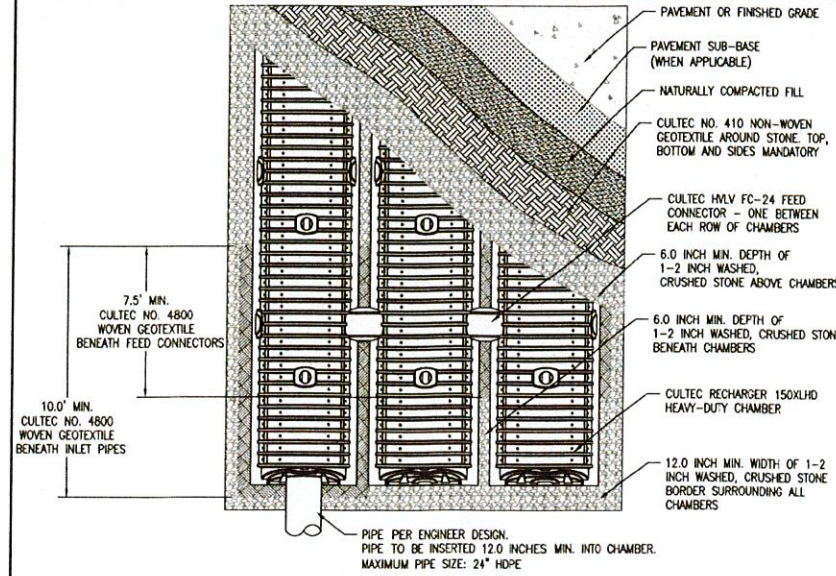
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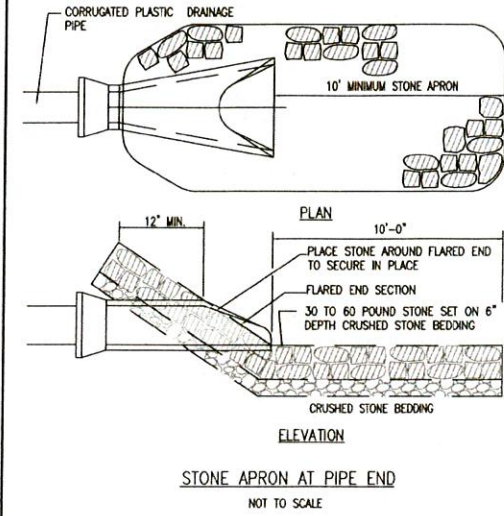


**GENERAL NOTES**  
 RECHARGER 150XL HD BY CULTEC, INC. OF BROOKFIELD, CT.  
 STORAGE PROVIDED = 11.32 CF/FT PER DESIGN UNIT.  
 REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.  
 THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.  
 ALL RECHARGER 150XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.  
 ALL RECHARGER 150XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

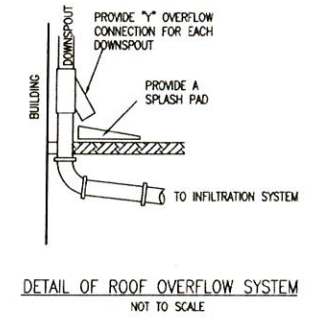
**CULTEC CONTACTOR 150XLHD DETAIL OF DRAIN INFILTRATION SYSTEM**  
 NOT TO SCALE



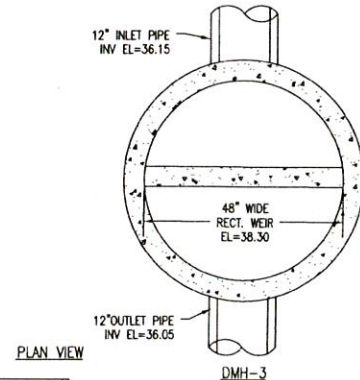
**CULTEC RECHARGER 150XLHD HEAVY DUTY PLAN VIEW**  
 NOT TO SCALE



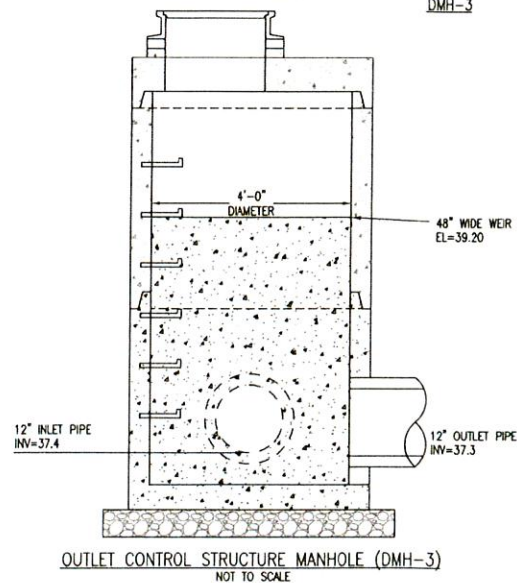
**STONE APRON AT PIPE END**  
 NOT TO SCALE



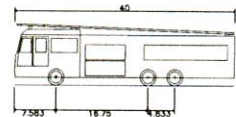
**DETAIL OF ROOF OVERFLOW SYSTEM**  
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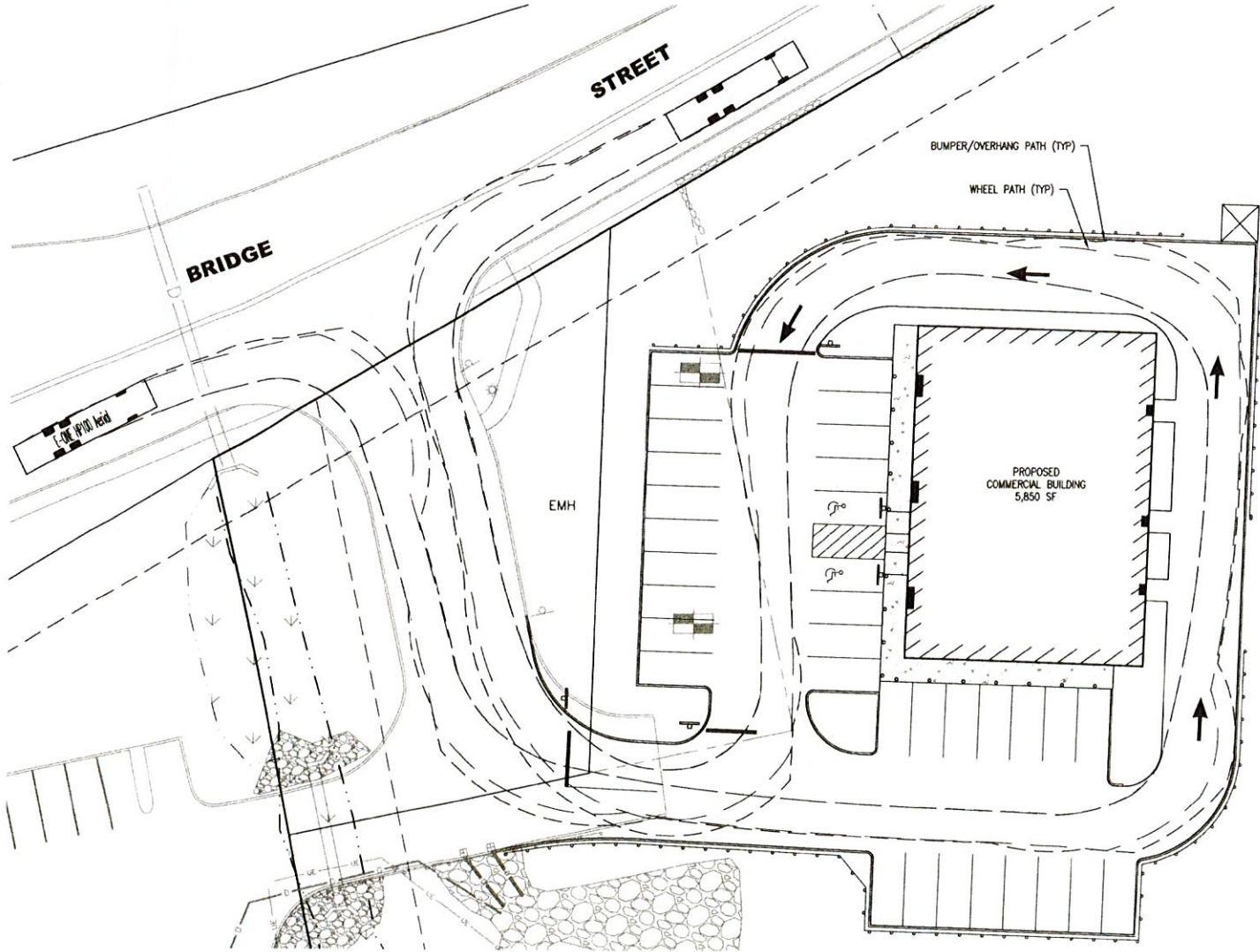
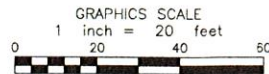
**PLAN VIEW**  
 DMH-3



**OUTLET CONTROL STRUCTURE MANHOLE (DMH-3)**  
 NOT TO SCALE



E-ONE HP100 Aerial  
 Overall Length 8.333ft  
 Overall Width 11.000ft  
 Overall Body Height 1.353ft  
 Min. Body Ground Clearance 6.333ft  
 Track Width 6.00s  
 Lock-to-lock time 45.00"



**FIRE TRUCK TURNING MOVEMENTS**  
**E-ONE HP100 AERIAL**  
 SCALE: 1"=20'

REV.	DATE	DESCRIPTION	BY	APP.	JLB
1.	3-14-24	PER REVIEW COMMENTS	TEM	JLB	

DATE	PROJECT NUMBER	DRAWING SCALE	AS SHOWN	SHEET ID	D2
7/24/2023	1057-01-01	AS SHOWN			

DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY
RLG	RLG	RNF	JLB

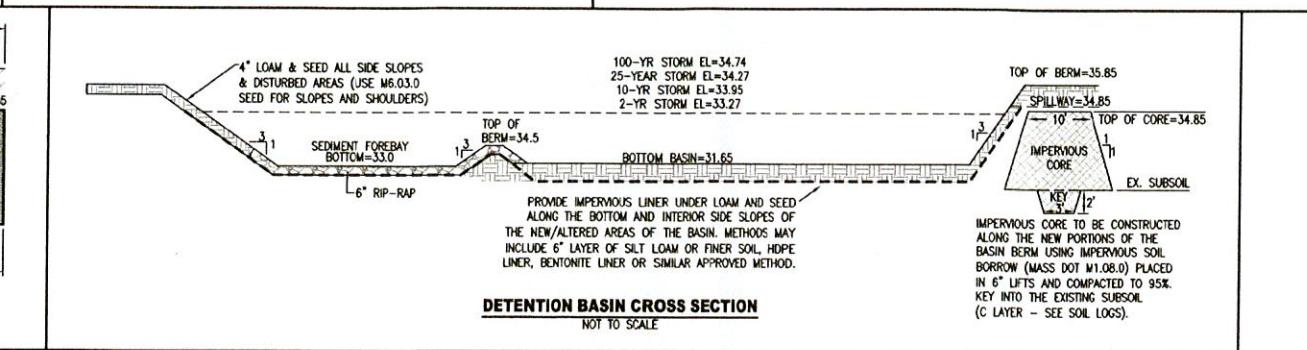
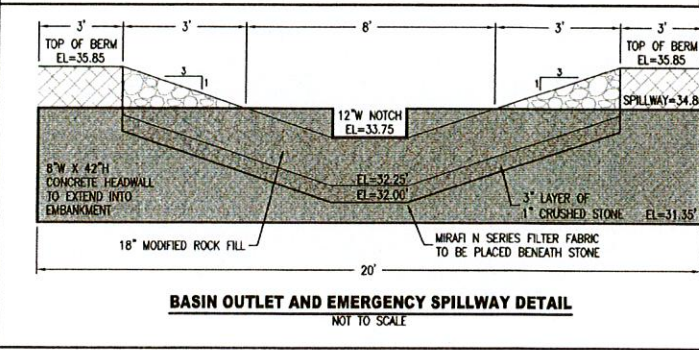
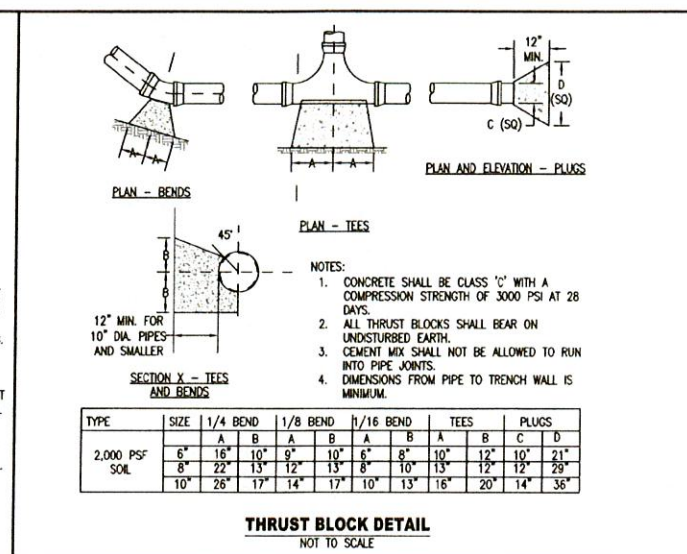
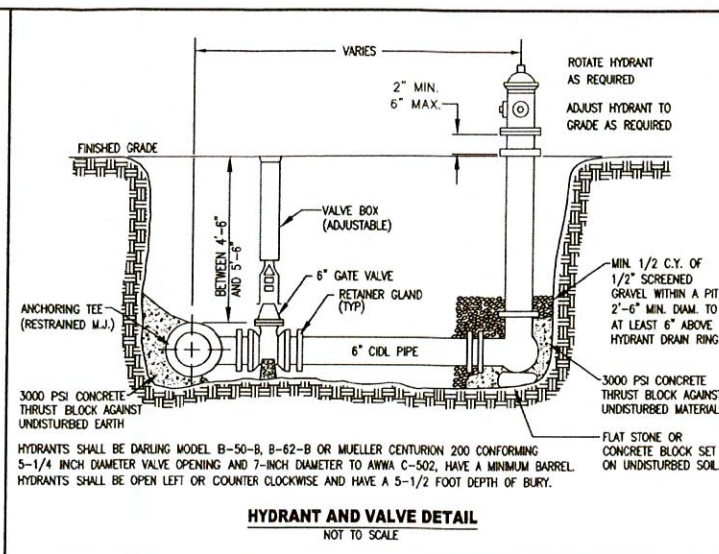
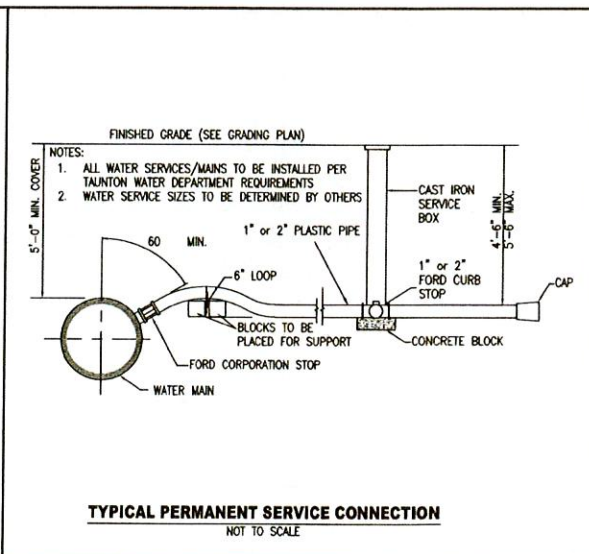
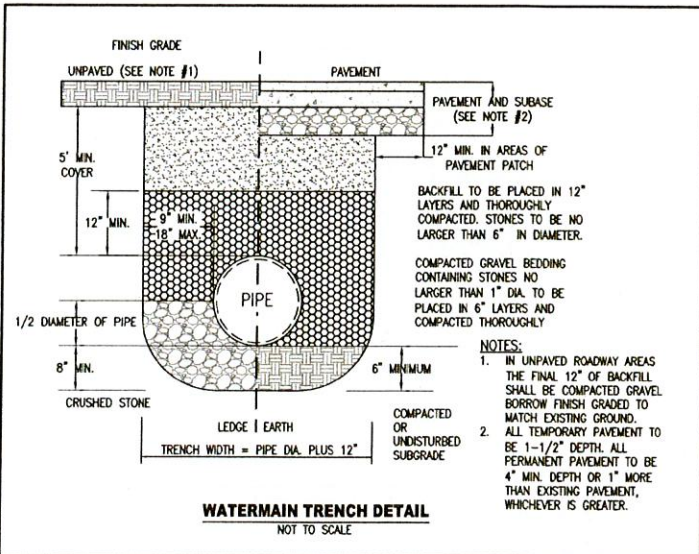
SHEET NAME	PROJECT SITE	CLIENT INFO
<b>SITE PLAN</b> <b>SITE DETAILS</b>	<b>MAP 30A - LOT 87 &amp; 87A BRIDGE ST.</b> FAIRHAVEN, MASSACHUSETTS	<b>CARRICORP INDUSTRIES, LTD.</b> 275 MARTINE STREET, SUITE 110 FALL RIVER, MA 02724



**ZCE**  
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 3 MAIN STREET LAKEVILLE, MA 02347  
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**ZCE** ZENITH CONSULTING ENGINEERS, LLC  
3 MAIN STREET LAKEVILLE, MA 02347  
PHONE: (508) 947-4208

REG. PROFESSIONAL ENGINEER  
MA. REG. NO. 14780  
P.E. STAMP 5-19-24

**SHEET NAME:** SITE PLAN  
**SITE DETAILS**

**PROJECT SITE:** MAP 30A - LOT 87 & 87A BRIDGE ST. FAIRHAVEN, MASSACHUSETTS  
**CLIENT INFO:** CARRICORP INDUSTRIES, LTD. 275 MARTINE STREET, SUITE 110 FALL RIVER, MA 02724

DATE: 7/24/2023  
PROJECT NUMBER: 1057-01-01  
DRAWING SCALE: AS SHOWN  
SHEET ID: D.3

REV.	DATE	DESCRIPTION	BY	APP.
1.	3-14-24	PER REVIEW COMMENTS	TEH	JLB

DRAWN BY: RLG  
DESIGNED BY: RLG  
CHECKED BY: RNF  
APPROVED BY: JLB

C:\Users\jmorris\AppData\Local\Temp\AutoCAD\14489\Site Plan - 30A-207.dwg - Fairhaven.dwg