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

SITE NOTES:

1. THE SITE IS LISTED ON THE TOWN OF FAIRHAVEN ASSESSORS PROPERTY RECORD CARDS AS PARCEL ID 30A–087 AND 30A–87A.
2. PROPERTY LINE AND EXISTING CONDITIONS INFORMATION WAS TAKEN FROM A FIELD SURVEY BY ZENITH LAND SURVEYORS, LLC.
3. 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
4. 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 25005C0394H, MAP REVISED JULY 6, 2021.
5. 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.
6. 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 305.
7. THE PROJECT IS NOT LOCATED WITHIN AN AREA OF CRITICAL ENVIRONMENTAL CONCERN (ACEC).
8. THE SITE IS NOT LOCATED IN A ZONE II TO A PUBLIC WATER SUPPLY WELL.
9. THE SITE IS NOT IN A ZONE A TO A SURFACE WATER SUPPLY AREA.
10. THE SITE IS NOT LOCATED IN AN OUTSTANDING RESOURCE WATER AREA (ORW).

CONSTRUCTION NOTES:

1. A NPDES PERMIT MUST BE OBTAINED FOR THIS PROJECT PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO VERIFY BENCHMARKS FOR CONSISTENCY PRIOR TO CONSTRUCTION AND SHALL NOTIFY ZENITH CONSULTING ENGINEERS, LLC. OF ANY DISCREPANCIES.
3. CONTRACTOR SHALL VERIFY WATER TABLE ELEVATIONS AND NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES FROM THE PLAN.
4. 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.
5. SITE IS TO BE SERVICED BY MUNICIPAL WATER AND MUNICIPAL SEWER.
6. ALL PAVEMENT MARKING AND SIGNAGE SHALL CONFORM TO MUTCD STANDARDS.
7. PROPOSED UTILITIES AND CONSTRUCTION METHODS UNDER AREAS SUBJECT TO TRAFFIC LOADING SHALL BE INSTALLED TO WITHSTAND H–20 LOADING TRAFFIC STANDARDS. CONTRACTOR SHALL VERIFY THAT ALL STRUCTURES COMPLY TO THIS STANDARD.
8. WHERE ALL CONCRETE STRUCTURES INTERCEPT THE SEASONAL HIGH GROUNDWATER TABLE, THE CONTRACTOR SHALL SEAL THE ENTIRE STRUCTURE WITH WATERPROOF SEALER.
9. IF APPLICABLE, ANY RETAINING WALLS SHALL BE DESIGNED BY A MASSACHUSETTS REGISTERED PROFESSIONAL STRUCTURAL ENGINEER.
10. 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.

ZONING SUMMARY AND COMPLIANCE TABLE (BUSINESS DISTRICT)

CRITERIA	REQUIRED	PROPOSED
LOT AREA	15,000 S.F.	143,536± S.F.
FRONTAGE	100'	204.28'
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%	36.5% (25,008 S.F.)
MAX. BLDG. COVERAGE	25%	4.1% (5,850 S.F.)

SCHEDULE OF DRAWINGS

SHEET ID	PLAN TITLE	LATEST REVISION DATE
C	COVER SHEET	7/24/2023
X	EXISTING CONDITIONS PLAN	7/24/2023
L	LAYOUT PLAN	7/24/2023
G	GRADING AND DRAINAGE PLAN	7/24/2023
E	EROSION CONTROL PLAN	7/24/2023
E2	EROSION CONTROL PLAN	7/24/2023
D	SITE DETAILS	7/24/2023
D2	SITE DETAILS	7/24/2023

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

JULY 24, 2023

LEGEND

EXISTING	DESCRIPTION	PROPOSED
	BUILDING	
99 100	CONTOUR	100
100X0	SPOT GRADE	100X0
	DRAINAGE BOUNDARY	
	TIME OF CONCENTRATION	
	SILT FENCE/SILT SOCK	
	HAYBALE LINE	
	CHAINLINK FENCE	
	STOCKADE FENCE	
X	WIRE FENCE	X
	GUARDRAIL	
	RAILROAD TRACKS	
	SIGN	
	MAILBOX	
	TEST PIT	
	UNKNOWN MANHOLE	
D D	DRAINAGE PIPE	D D
RD RD	ROOF DRAIN PIPE	RD RD
	CATCH BASIN	
	DOUBLE GRATE CATCH BASIN	
	CURB INLET	
	DRAIN MANHOLE	
	FLARED END	
G G	GAS MAIN	G G
GS GS	GAS SERVICE	GS GS
	GAS MANHOLE	
	GAS GATE/VALVE	
	GAS METER	
C C	CABLE	
ETC	ELEC/TELE/CABLE	ETC
OHW	OVERHEAD WIRES	OHW
UE UE	UNDERGROUND ELECTRIC	UE UE
UT UT	UNDERGROUND TELEPHONE	
	ELECTRIC MANHOLE	
	TELEPHONE MANHOLE	
	HANDHOLE	
	ELECTRIC METER	
	TRANSFORMER	
	UTILITY POLE	
	GUY POLE	
	GUY WIRE	
	LIGHT POLE	
	FLOOD LIGHT	
	TRAFFIC SIGNAL	
S S	GRAVITY SEWER MAIN	S S
FSM	FORCE SEWER MAIN	FSM
SS SS	SEWER SERVICE	SS SS
	SEWER MANHOLE	
	SEWER VALVE	
FS FS	FIRE SUPPRESSION SERVICE	FS FS
W W	WATER MAIN	W W
WS WS	WATER SERVICE	WS WS
	HYDRANT	
	WATER GATE/VALVE	
	WATER SHUTOFF	
	WELL	
	WATER MANHOLE	
	MONITORING WELL	
	TREELINE	
	STONEWALL	
	WETLAND LINE	
	TOP OF BANK	
	FLOOD ZONE	
	EDGE OF WATER	
ZONE A	ZONE A BOUNDARY	
NHESP	NATURAL HERITAGE BOUNDARY	
WRPD	WRPD BOUNDARY	
25'B	25' BUFFER	
50'B	50' BUFFER	
75'B	75' BUFFER	
100'B	100' BUFFER	
150'B	150' BUFFER	
100'RA	100' RIPARIAN ZONE	
200'RA	200' RIPARIAN ZONE	
WF10	WETLAND FLAG	
	BENCHMARK	
	CONTROL POINT	
	MAG NAIL	
	DRILLHOLE	
	CONCRETE BOUND	
	STONE BOUND	
	IRON PIPE	
	REBAR	

SURVEY COMPANY OF RECORD:

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

COMMONWEALTH OF MASSACHUSETTS
William Joseph McGovern
NO. 39692
REGISTERED PROFESSIONAL LAND SURVEYOR

July 27, 2023
PROFESSIONAL LAND SURVEYOR, PLS — DATE

COMMONWEALTH OF MASSACHUSETTS
RENE L. GAGNON
CIVIL
No. 49451
7-27-23
P.E. STAMP

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

REV.	DATE	DESCRIPTION	BY	APP.

DATE: 7/24/2023
PROJECT NUMBER 1057–01–01
DRAWING SCALE 1" = 500'
SHEET ID C
DRAWN BY: RLG
DESIGNED BY: RLG
CHECKED BY: RMF
APPROVED BY JLB

SHEET NAME: **PLAN TITLE COVER SHEET**
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

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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.
2. PROPERTY LINE AND EXISTING CONDITIONS INFORMATION WAS TAKEN FROM A FIELD SURVEY BY ZENITH LAND SURVEYORS, LLC.
3. BRISTOL SOUTH COUNTY REGISTRY OF DEEDS:
   DEED REFERENCE: BOOK 13503 PAGE 338
   PLAN REFERENCES:
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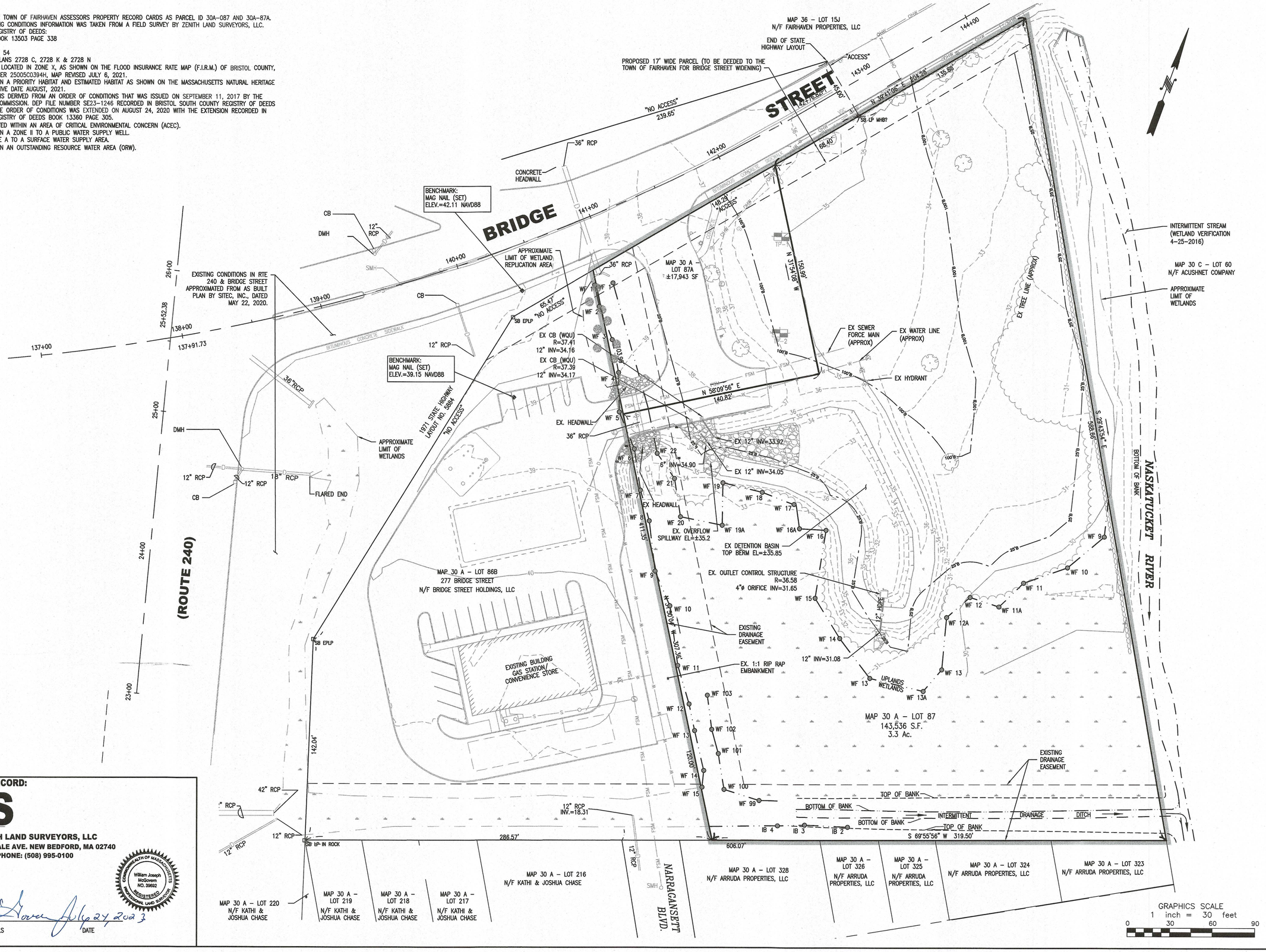

SURVEY COMPANY OF RECORD:

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1162 ROCKDALE AVE. NEW BEDFORD, MA 02740
PHONE: (508) 995-0100

COMMONWEALTH OF MASSACHUSETTS
William Joseph McGovern
NO. 39692
REGISTERED PROFESSIONAL LAND SURVEYOR

July 24, 2023

PROFESSIONAL LAND SURVEYOR, PLS — DATE

COMMONWEALTH OF MASSACHUSETTS
RENE L. GAGNON
NO. 47451
REGISTERED PROFESSIONAL ENGINEER
7-27-23

P.E. STAMP

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

REV.	DATE	DESCRIPTION	BY	APP.

DRAWN BY: RLG
DATE: 7/24/2023
DESIGNED BY: RLG
PROJECT NUMBER 1057-01-01
CHECKED BY: RMF
DRAWING SCALE 1" = 30'
APPROVED BY JLB
SHEET ID X

SHEET NAME: **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

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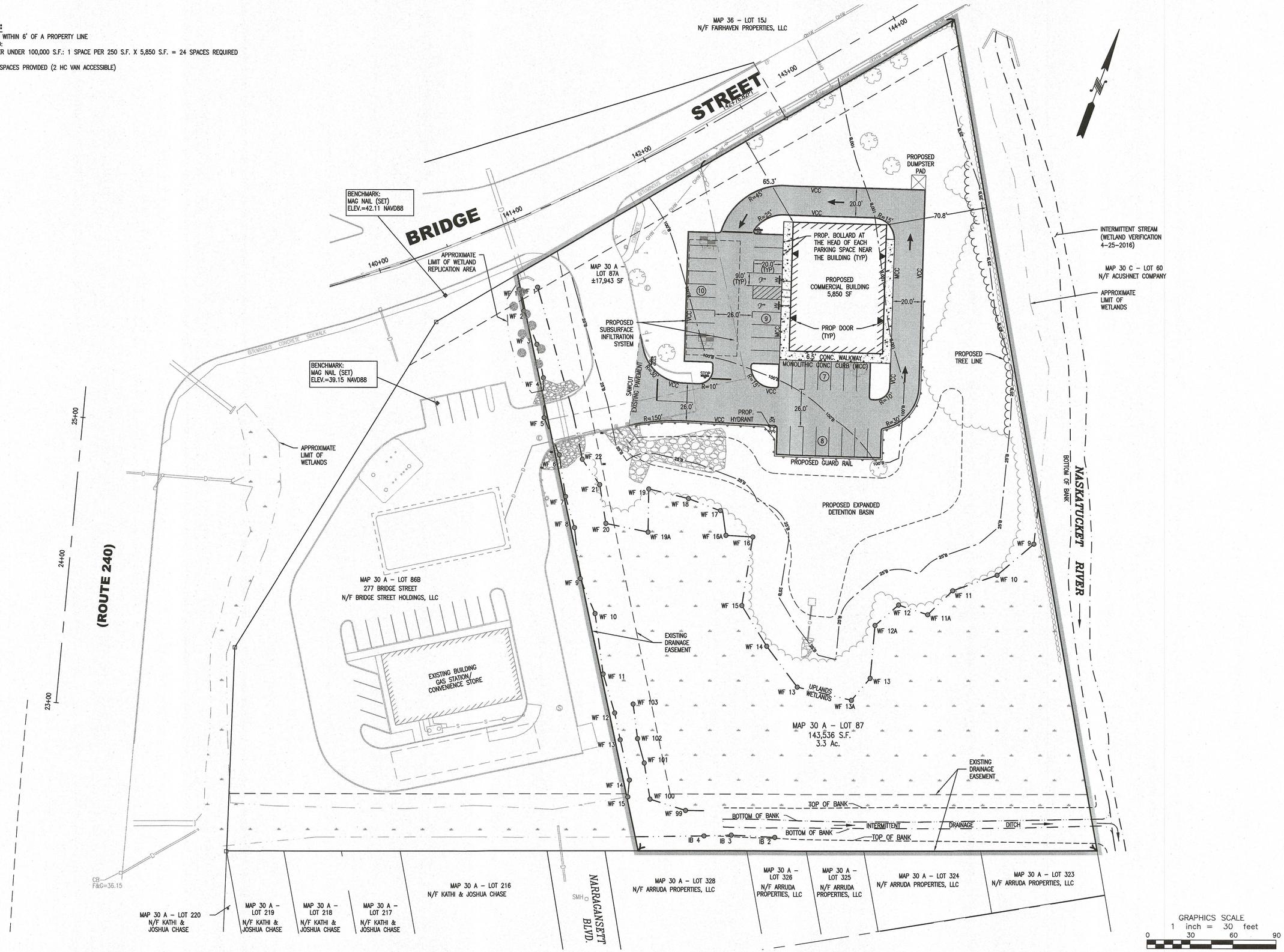
PARKING SUMMARY:

NO PARKING SPACE SHALL BE WITHIN 6' 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)



COMMONWEALTH OF MASSACHUSETTS
RENE L. GAGNON
CIVIL
NO. 48451
PROFESSIONAL ENGINEER
7-27-23
P.E. STAMP

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PHONE: (508) 947-4208

REV.	DATE	DESCRIPTION	BY	APP.

DRAWN BY: RLG	DATE: 7/24/2023		
DESIGNED BY: RLG	PROJECT NUMBER 1057-01-01		
CHECKED BY: RMF	DRAWING SCALE 1" = 30'		
APPROVED BY: JLB	SHEET ID L		

SHEET NAME: **SITE PLAN LAYOUT 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

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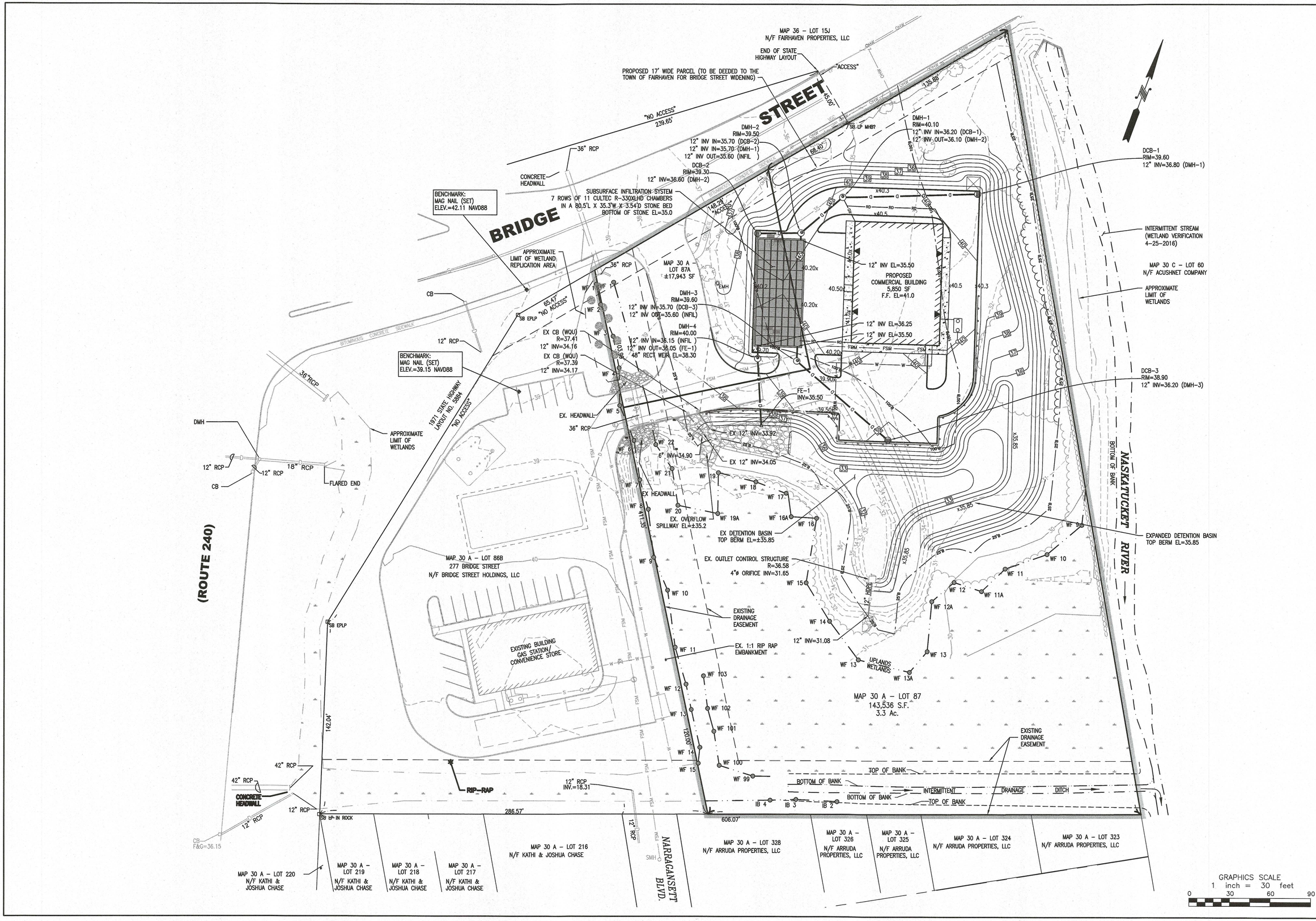

P.E. STAMP

COMMONWEALTH OF MASSACHUSETTS
RENE L. GAGNON
CIVIL
NO. 48581
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7-27-23

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REV.	DATE	DESCRIPTION	BY	APP.

DRAWN BY: RLG	DATE: 7/24/2023
DESIGNED BY: RLG	PROJECT NUMBER 1057-01-01
CHECKED BY: RMF	DRAWING SCALE 1" = 30'
APPROVED BY JLB	SHEET ID G

SHEET NAME: **SITE PLAN**
GRADING & DRAINAGE 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

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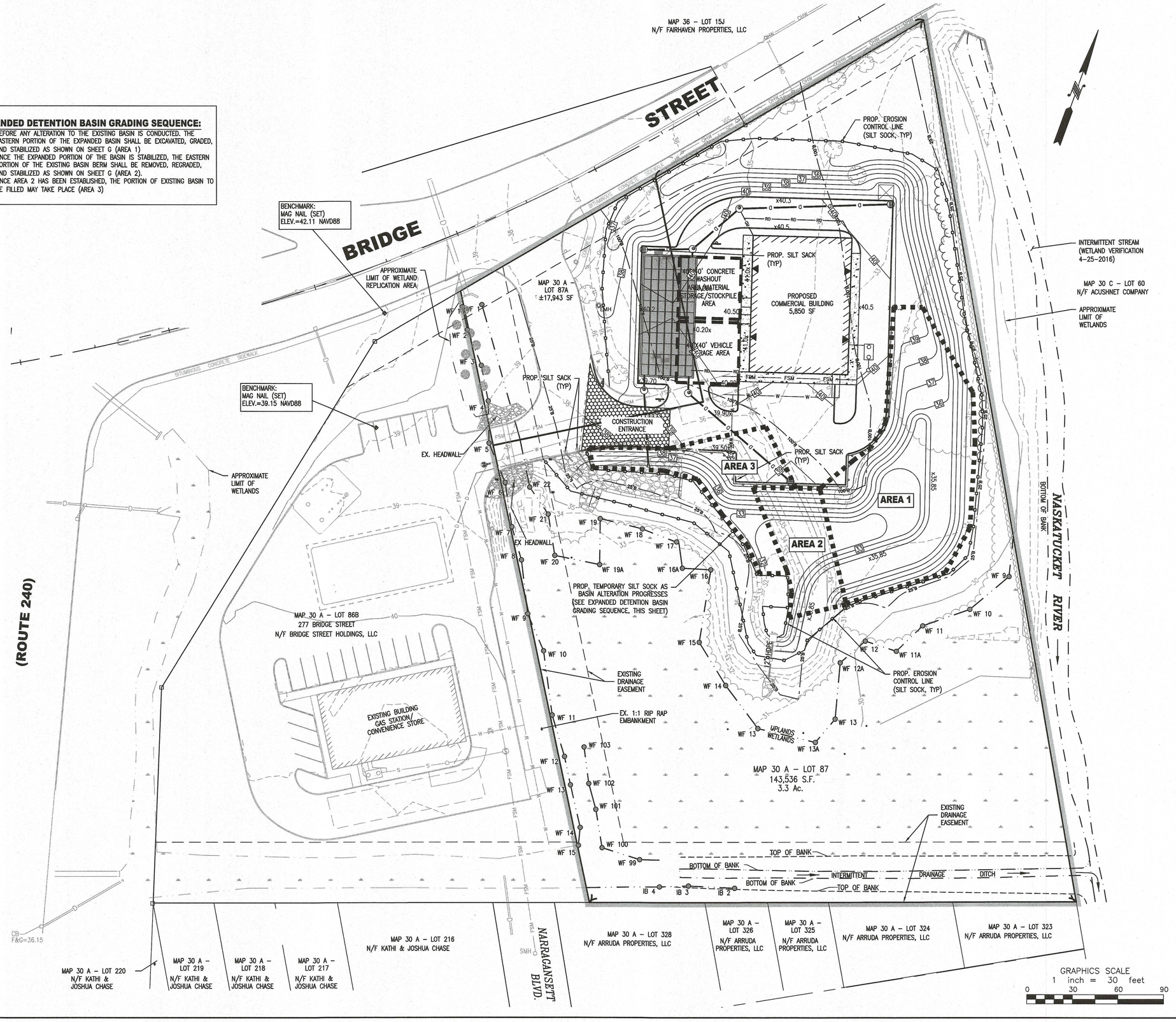
EXPANDED DETENTION BASIN GRADING SEQUENCE:

1. BEFORE ANY ALTERATION TO THE EXISTING BASIN IS CONDUCTED. THE EASTERN PORTION OF THE EXPANDED BASIN SHALL BE EXCAVATED, GRADED, AND STABILIZED AS SHOWN ON SHEET G (AREA 1)
2. 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 ON SHEET G (AREA 2).
3. ONCE AREA 2 HAS BEEN ESTABLISHED, THE PORTION OF EXISTING BASIN TO BE FILLED MAY TAKE PLACE (AREA 3)



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REV.	DATE	DESCRIPTION	BY	APP.

DRAWN BY: RLG	DATE: 7/24/2023
DESIGNED BY: RLG	PROJECT NUMBER 1057-01-01
CHECKED BY: RMF	DRAWING SCALE 1" = 30'
APPROVED BY JLB	SHEET ID E

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

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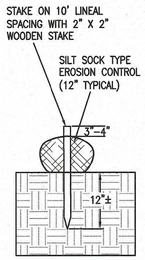
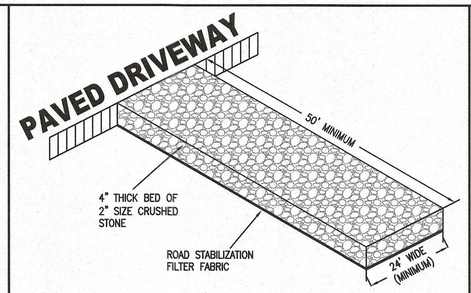
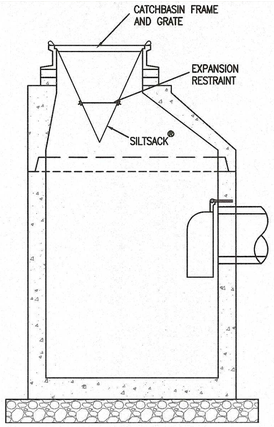
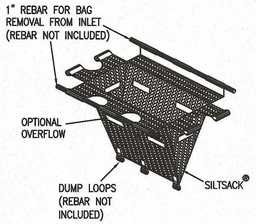


SILT SOCK DETAIL
NOT TO SCALE



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 (@500 HRS)	ASTM D-4355	%	96
AOS	ASTM D-4751	US SIEVE	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 ½" DEPTH OF PRECIPITATION) OR EVERY 14 DAYS, WHICHEVER OCCURS FIRST. ALL DAMAGED OR MISALIGNED FENCES SHALL BE IMMEDIATELY REPAIRED. SILT 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 ½" 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:

   a. AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB.
   b. 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.
   c. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL IN LEGIBLE CONDITION.
   d. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
   e. WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING THE CONTAINER.
   f. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
   g. 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.

   a. PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS WITH THE ORIGINAL LABELS IN LEGIBLE CONDITION.
   b. ORIGINAL LABELS AND MSDS'S SHALL BE PROCURED AND USED FOR EACH PRODUCT.
   c. 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 DEEMED 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.

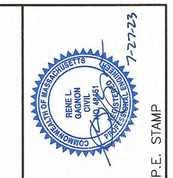
SANITARY WASTES

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 BMPS 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.



P.E. STAMP

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

BY	APP.	REV.	DATE	DESCRIPTION

DRAWN BY: RLG	DATE: 7/24/2023		
DESIGNED BY: RLG	PROJECT NUMBER 1057-01-01		
CHECKED BY: RMF	DRAWING SCALE 1" = 30'		
APPROVED BY JLB	SHEET ID E2		

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**

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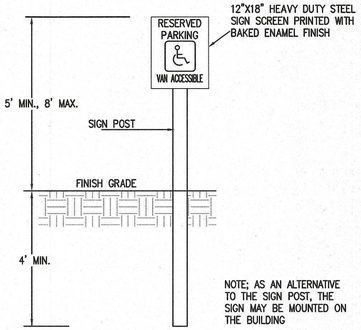
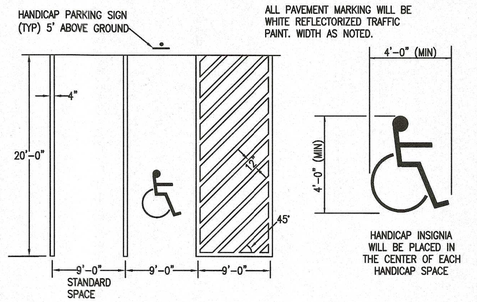


NOTE: AS AN ALTERNATIVE TO THE SIGN POST, THE SIGN MAY BE MOUNTED ON THE BUILDING

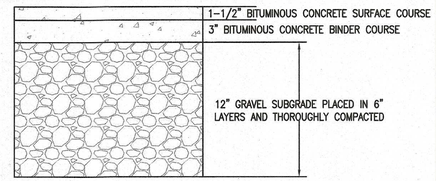
HANDICAPPED PARKING SIGN
NOT TO SCALE



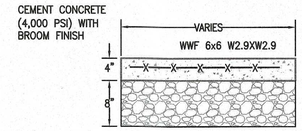
PARKING STALL LAYOUT

HANDICAP PARKING SPACE PAVEMENT MARKING

TYPICAL PAVEMENT MARKINGS
NOT TO SCALE

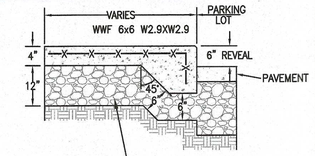


BITUMINOUS CONCRETE PAVEMENT
NOT TO SCALE



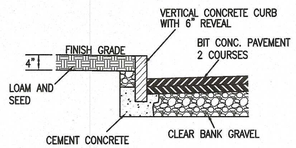
MINIMUM OF 12" GRAVEL SUB BASE – M1.03.0 TYPE B (MAX. 3" STONES) GRAVEL SUBASE PLACED IN 4" LAYERS AND THOROUGHLY COMPACTED

CONCRETE SIDEWALK
NOT TO SCALE

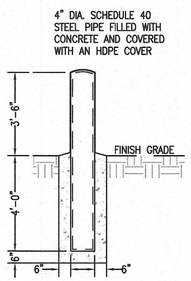


MINIMUM OF 12" GRAVEL SUB BASE – M1.03.0 TYPE B (MAX. 3" STONES) GRAVEL SUBASE PLACED IN 4" LAYERS AND THOROUGHLY COMPACTED

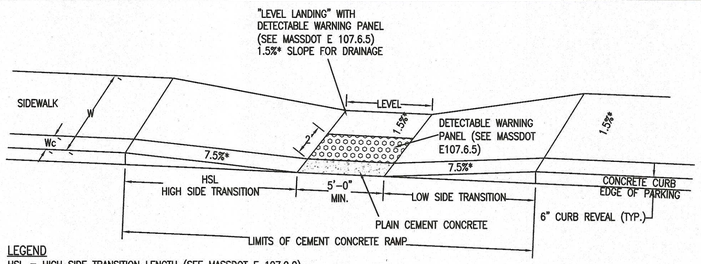
CONCRETE WALK/MONOLITHIC CONCRETE CURB
NOT TO SCALE



VERTICAL CONCRETE CURB DETAIL
NOT TO SCALE



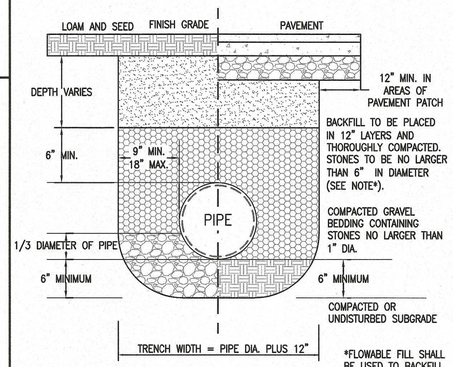
BOLLARD DETAIL
NOT TO SCALE



LEGEND
HSL = HIGH SIDE TRANSITION LENGTH (SEE MASSDOT E 107.9.0)
W = SIDEWALK WIDTH
Wc = CURB WIDTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION ±0.5%
USABLE SIDEWALK WIDTH PER AAB = W–Wc
USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'–0"
SEE MASSDOT E 107.6.5 FOR DETAILS OF DETECTABLE WARNING PANEL

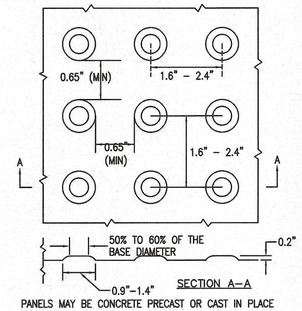
NOTE:
ROADWAY, GUTTER AND FIRST 6" OF SIDEWALK TO BE ADJUSTED FOR FIELD CONDITIONS

WHEELCHAIR RAMP WITH DETECTABLE WARNING PANEL
NOT TO SCALE



*FLOWABLE FILL SHALL BE USED TO BACKFILL TRENCHES WITHIN THE CITY RIGHT OF WAY.

DRAINAGE PIPE TRENCH DETAIL
NOT TO SCALE



PANELS MAY BE CONCRETE PRECAST OR CAST IN PLACE OR OTHER SUITABLE MATERIAL PERMANENTLY APPLIED TO THE RAMP. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT–ON–DARK OR DARK–ON–LIGHT.

DETECTABLE WARNING PANEL

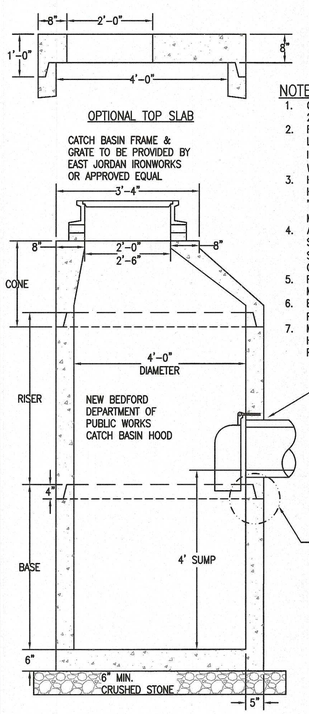
SOIL LOGS:
PERFORMED ON: 7/21/2023
PERFORMED BY: JAMIE BISSONNETTE, ZENITH CONSULTING ENG, LLC.

DEPTH (INCHES)	TP-1	ELEV. (FEET)
0		35.1
	Ap SANDY LOAM 10YR 3/3	
14		34.0
	B SANDY LOAM 10 YR 5/8	
26		32.9
	C SANDY LOAM 2.5Y 5/3	
98		27.0

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

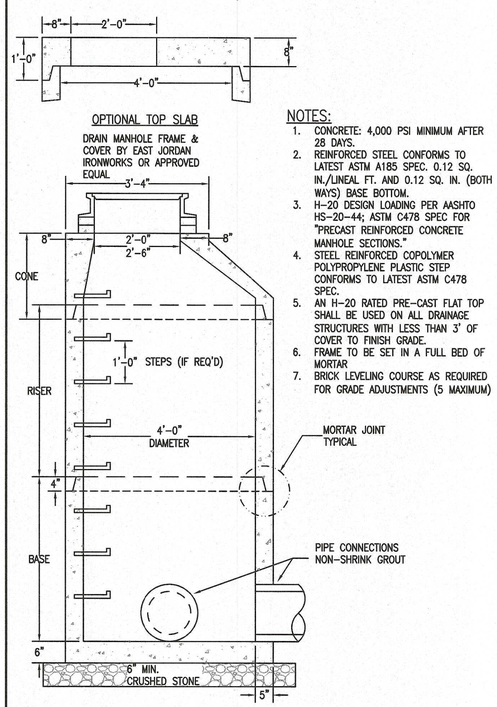
DEPTH (INCHES)	TP-2	ELEV. (FEET)
0		35.7
	FILL	
30		33.2
	Ap SANDY LOAM 10YR 3/3	
37		33.6
	B SANDY LOAM 10 YR 5/8	
43		33.1
	C SANDY LOAM 2.5Y 5/3	
88		28.4

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



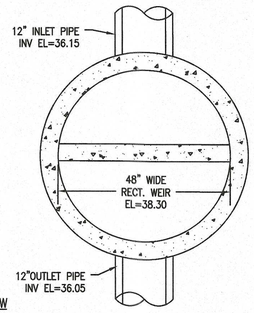
NOTES:
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
2. REINFORCED STEEL CONFORMS TO LATEST ASTM A185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM.
3. H–20 DESIGN LOADING PER AASHTO HS–20–44; ASTM C478 SPEC FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
4. AN H–20 RATED PRE–CAST FLAT TOP SHALL BE USED ON ALL DRAINAGE STRUCTURES WITH LESS THAN 3' OF COVER TO FINISH GRADE.
5. FRAME TO BE SET IN A FULL BED OF MORTAR
6. BRICK LEVELING COURSE AS REQUIRED FOR GRADE ADJUSTMENTS (5 MAXIMUM)
7. MASSACHUSETTS STANDARD CATCH BASIN HOOD SHALL BE INSTALLED ON OUTLET PIPE.

PRECAST CONCRETE CATCH BASIN
NOT TO SCALE



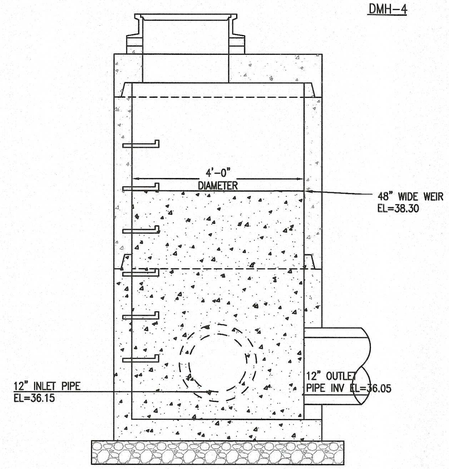
NOTES:
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
2. REINFORCED STEEL CONFORMS TO LATEST ASTM A185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM.
3. H–20 DESIGN LOADING PER AASHTO HS–20–44; ASTM C478 SPEC FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
4. STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC STEP CONFORMS TO LATEST ASTM C478 SPEC.
5. AN H–20 RATED PRE–CAST FLAT TOP SHALL BE USED ON ALL DRAINAGE STRUCTURES WITH LESS THAN 3' OF COVER TO FINISH GRADE.
6. FRAME TO BE SET IN A FULL BED OF MORTAR
7. BRICK LEVELING COURSE AS REQUIRED FOR GRADE ADJUSTMENTS (5 MAXIMUM)

PRECAST CONCRETE DRAIN MANHOLE
NOT TO SCALE

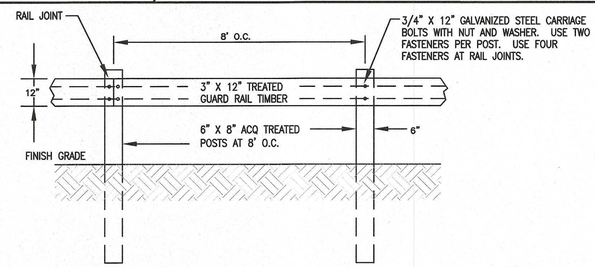


PLAN VIEW

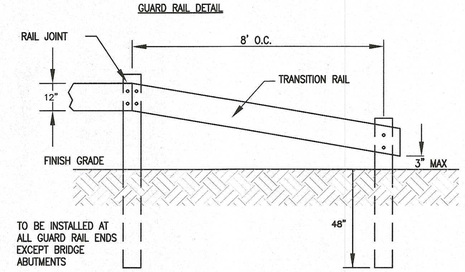
DMH–4



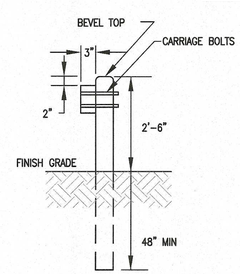
OUTLET CONTROL STRUCTURE MANHOLE (DMH–4)
NOT TO SCALE



GUARD RAIL DETAIL



GUARD RAIL TRANSITION DETAIL



NOTES:
1. POSTS: 6"x8"x8'
2. RAILS: 3"x12"x16'
3. GLAVANIZED NUTS AND BOLTS 3/4" DIA
4. POSTS TO BE SET 48" INTO GROUND
5. POST CENTER–TO–CENTER SPACING TO BE 8'
6. SEE PLAN FOR INSTALLATION LOCATION
7. WEATHERED STEEL SPLICE PLATES SHALL BE USED FOR FASTENING STELL BACKING AT ALL POST LOCATIONS.

GUARD RAIL DETAILS
NOT TO SCALE

P.E. STAMP
7-27-23

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

REV.	DATE	DESCRIPTION	BY	APP.

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

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

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**

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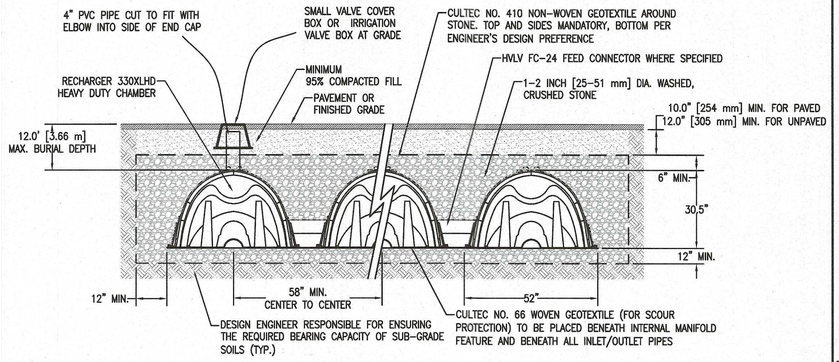
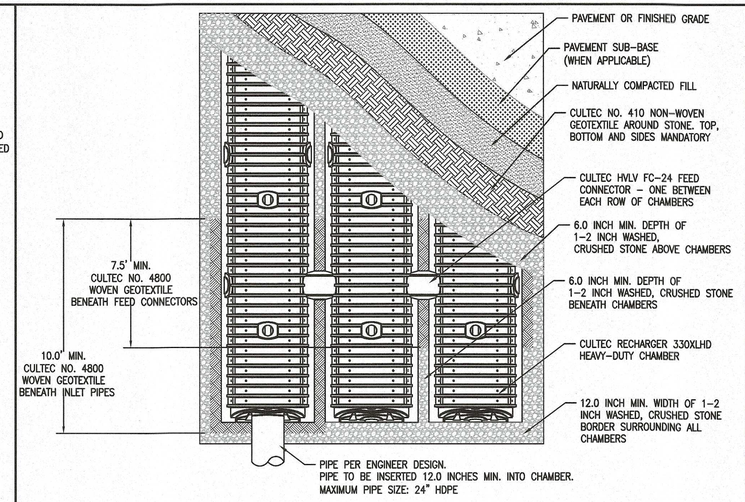


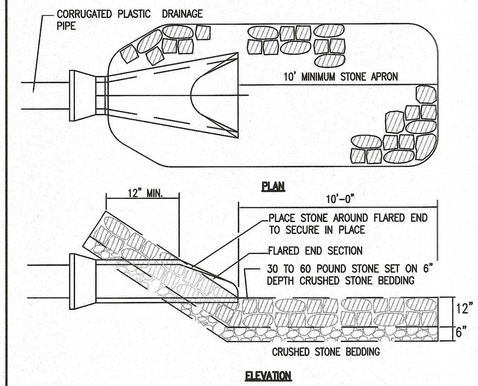
GENERAL NOTES

RECHARGER 330XL HD BY CULTEC, INC. OF BROOKFIELD, CT.
STORAGE PROVIDED = 11.32 CF/FT [1.05 m^3/m] 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 330XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
ALL RECHARGER 330XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS

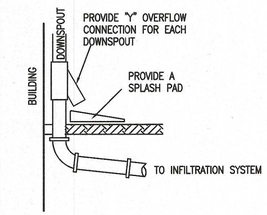
CULTEC CONTACTOR 330XLHD DETAIL OF DRAIN INFILTRATION SYSTEM
NOT TO SCALE



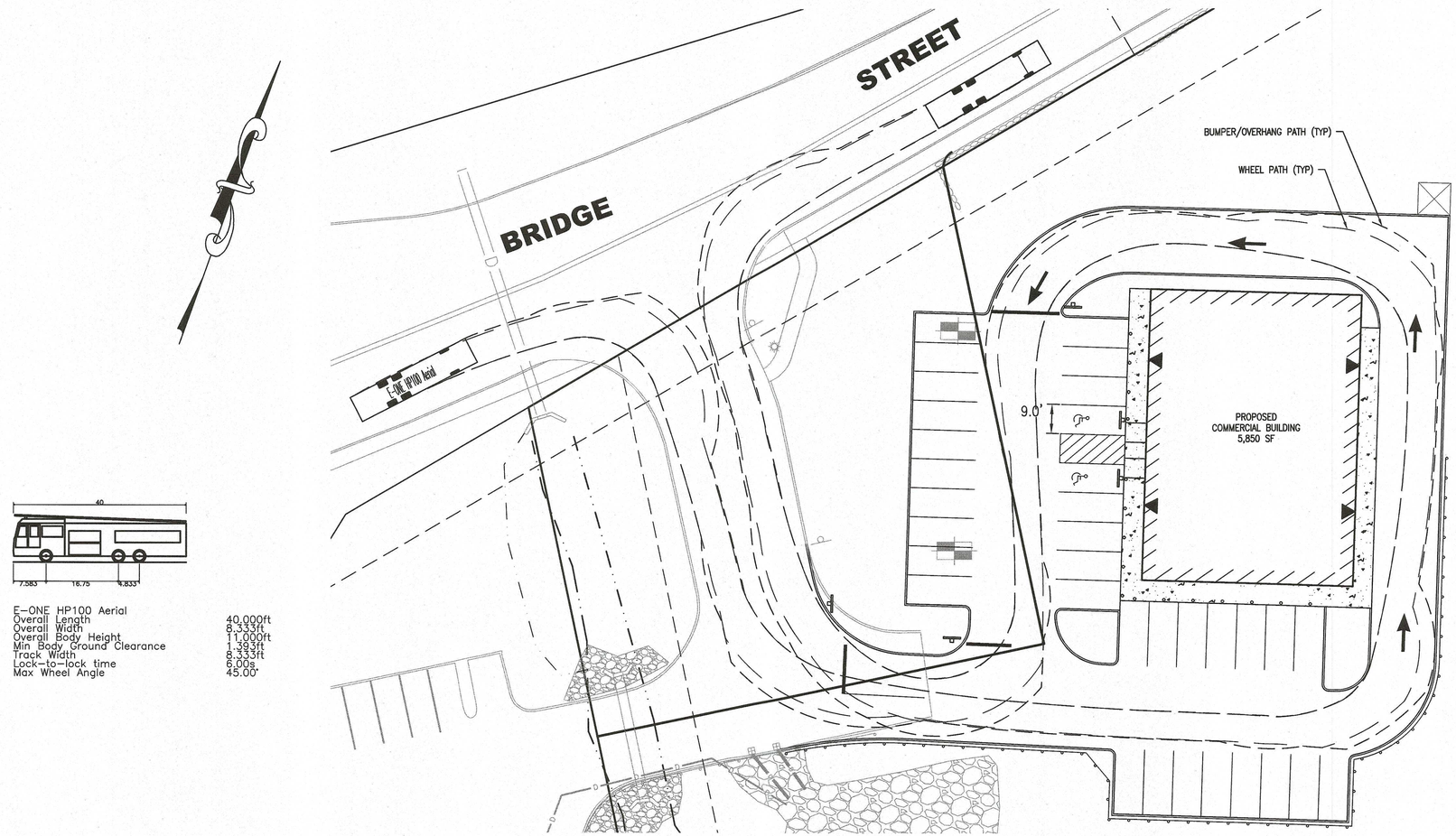
CULTEC RECHARGER 330XLHD HEAVY DUTY PLAN VIEW
NOT TO SCALE



STONE APRON AT PIPE END
NOT TO SCALE



DETAIL OF ROOF OVERFLOW SYSTEM
NOT TO SCALE



E-ONE HP100 Aerial	
Overall Length	40.000ft
Overall Width	8.333ft
Overall Body Height	11.000ft
Min Body Ground Clearance	1.393ft
Track Width	8.333ft
Lock-to-lock time	6.00s
Max Wheel Angle	45.00°

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

P.E. STAMP
REBIE L. GAGNON No. 49951 COMMONWEALTH OF MASSACHUSETTS PROFESSIONAL ENGINEER 7-27-23

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

REV.	DATE	DESCRIPTION	BY	APP.

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**

DRAWN BY: RLG	DATE: 7/24/2023		
DESIGNED BY: RLG	PROJECT NUMBER 1057-01-01		
CHECKED BY: RMF	DRAWING SCALE AS SHOWN		
APPROVED BY JLB	SHEET ID D2		

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