

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-07A.
- 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 25005C0394H, 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 305.
- THE PROJECT IS NOT LOCATED WITHIN AN AREA OF CRITICAL ENVIRONMENTAL CONCERN (ACEC).
- THE SITE IS NOT LOCATED IN A ZONE II 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 NPDES 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 TRAFFIC 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 198-31.1 STORMWATER MANAGEMENT UNDER THE ZONING BYLAW:
- SECTION 198-31.1.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 198-31.1.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 198-31.1-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 HDPE PIPE WHICH ONLY REQUIRES 1' OF COVER TO BE RATED FOR H-20 LOADING.
 - SECTION 198-31.1-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.)

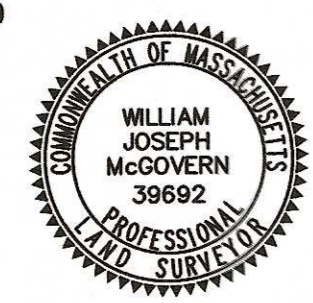
* WITH PROPOSED PROPERTY LINE AS SHOWN ON SHEET L

SCHEDULE OF DRAWINGS		
SHEET ID	PLAN TITLE	LATEST REVISION DATE
C	COVER SHEET	4-9-24
X	EXISTING CONDITIONS PLAN	4-9-24
L	LAYOUT PLAN	4-9-24
G	GRADING AND DRAINAGE PLAN	4-9-24
U	UTILITY PLAN	4-9-24
V	LANDSCAPING PLAN	4-9-24
E1	EROSION CONTROL PLAN	4-9-24
E2	EROSION CONTROL PLAN	4-9-24
D1	SITE DETAILS	4-9-24
D2	SITE DETAILS	4-9-24
D3	SITE DETAILS	4-9-24



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

SURVEY COMPANY OF RECORD:



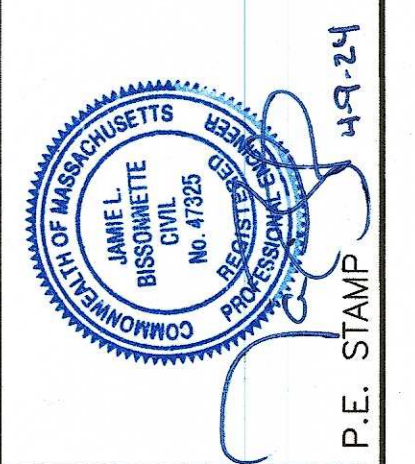
William J. McGovern April 9, 2024
PROFESSIONAL LAND SURVEYOR, PLS DATE

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
REVISED APRIL 9, 2024



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

APP.	BY	DATE	DESCRIPTION
JLB	JLB	7/24/2023	PER REVIEW COMMENTS
JLB	JLB	4-9-24	PER REVIEW COMMENTS

PLAN TITLE
COVER SHEET

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

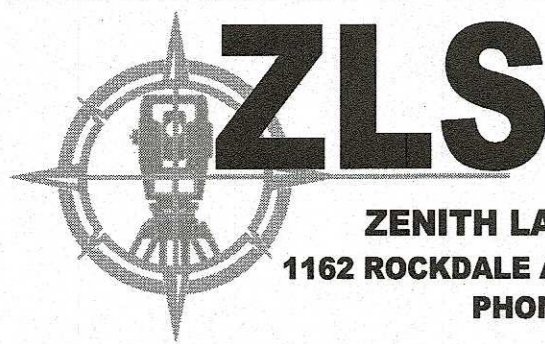
CLIENT INFO: CARRICORP INDUSTRIES, LTD. 275 MARTINE STREET, SUITE 110 FALL RIVER, MA 02724

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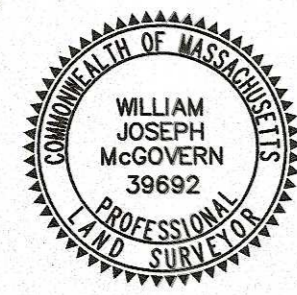
SITE NOTES:

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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:
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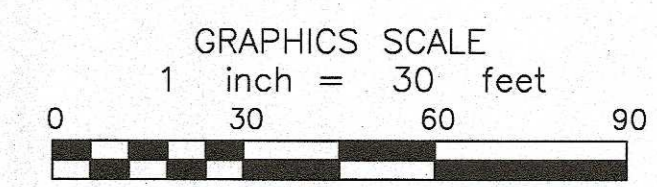
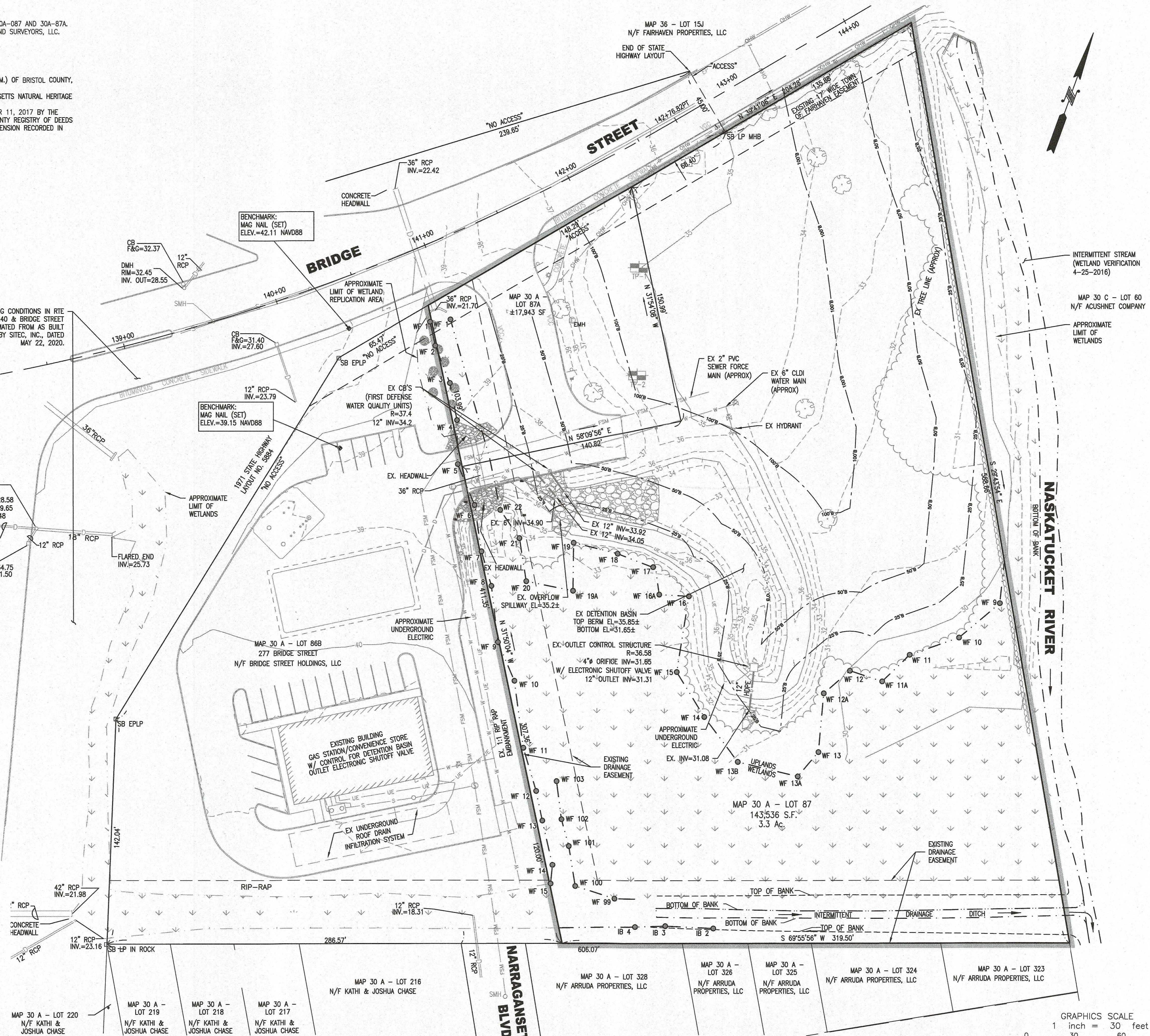
SURVEY COMPANY OF RECORD:



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



William McGovern April 9, 2024
PROFESSIONAL LAND SURVEYOR, PLS DATE



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



APP.	BY	DATE	DESCRIPTION
JLB	JLB	3-14-24	PER REVIEW COMMENTS
JLB	JLB	4-9-24	PER REVIEW COMMENTS

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

DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY
RLG	RLG	RMF	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

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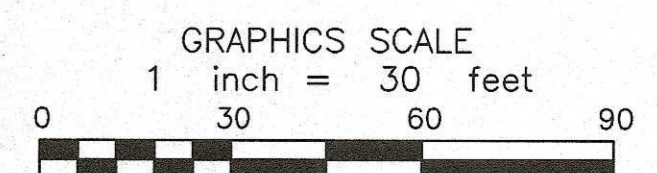
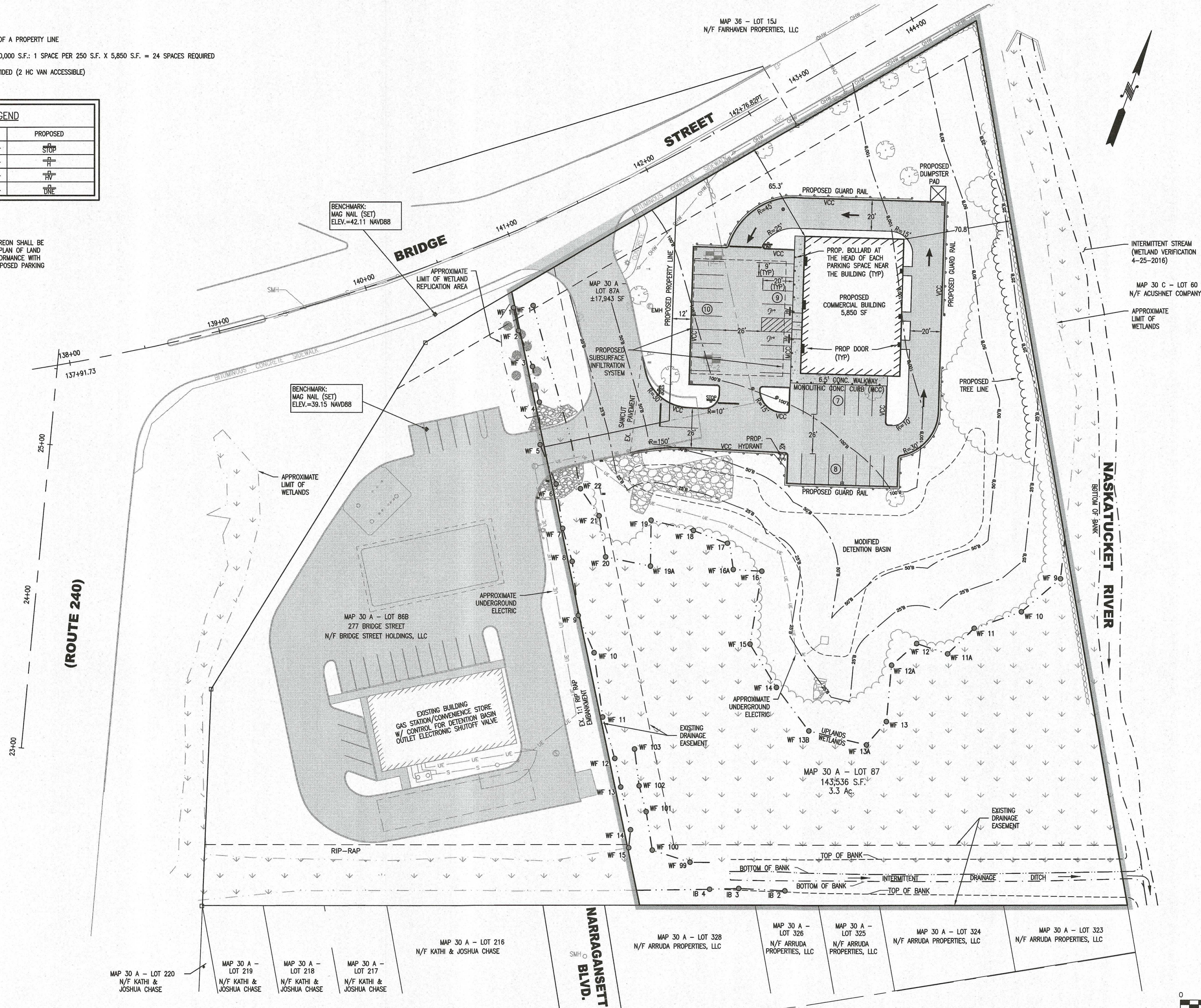
PARKING SUMMARY:

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)

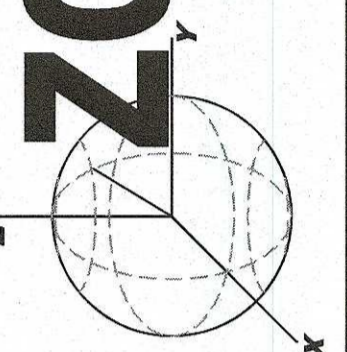
SIGN LEGEND	
	PROPOSED
STOP -	
HANDICAP -	
HANDICAP VAN -	
DO NOT ENTER -	

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.)



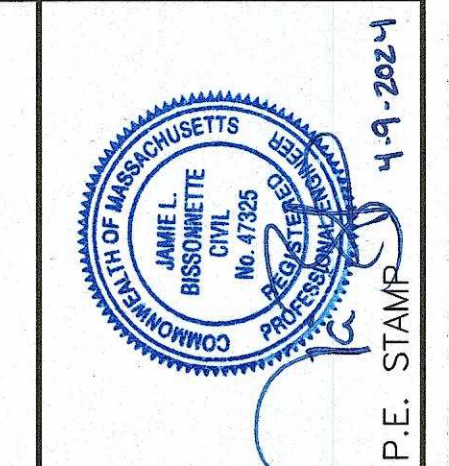
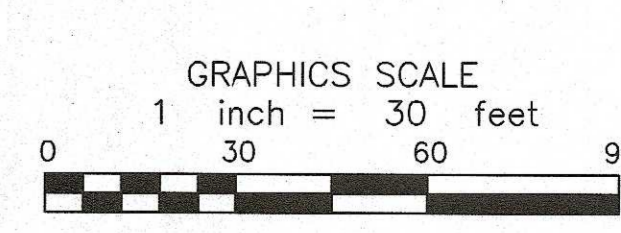
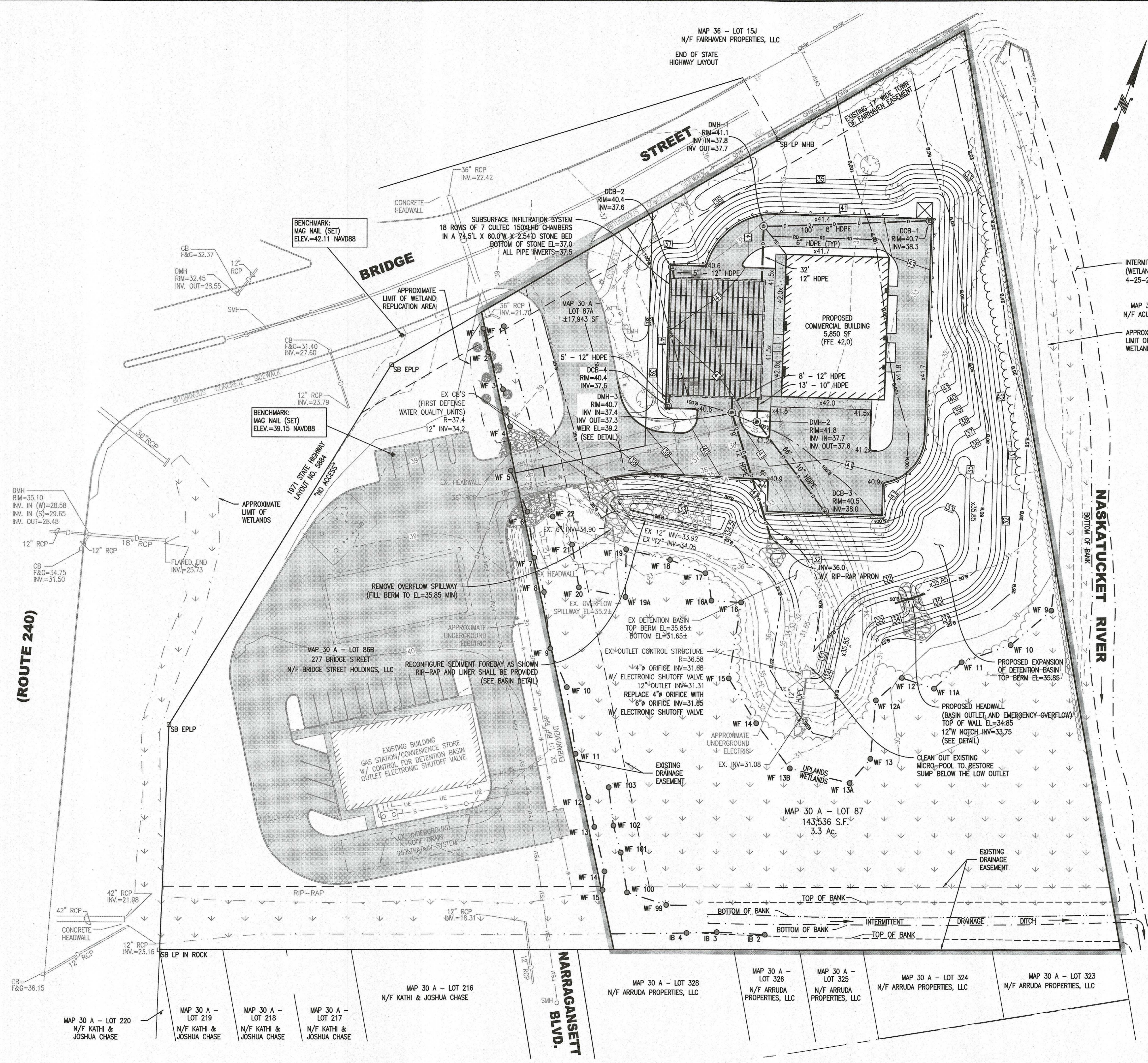
ZCE
 ZENITH CONSULTING ENGINEERS, LLC
 3 MAIN STREET LAKEVILLE, MA 02347
 PHONE: (508) 947-4208



REV.	DATE	DESCRIPTION	BY	APP.
1.	7/24/2023	PER REVIEW COMMENTS	TEM	JLB
2.	3-14-24	PER REVIEW COMMENTS	TEM	JLB
	4-9-24	PER REVIEW COMMENTS	TEM	JLB

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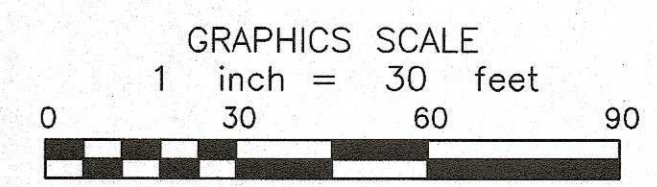
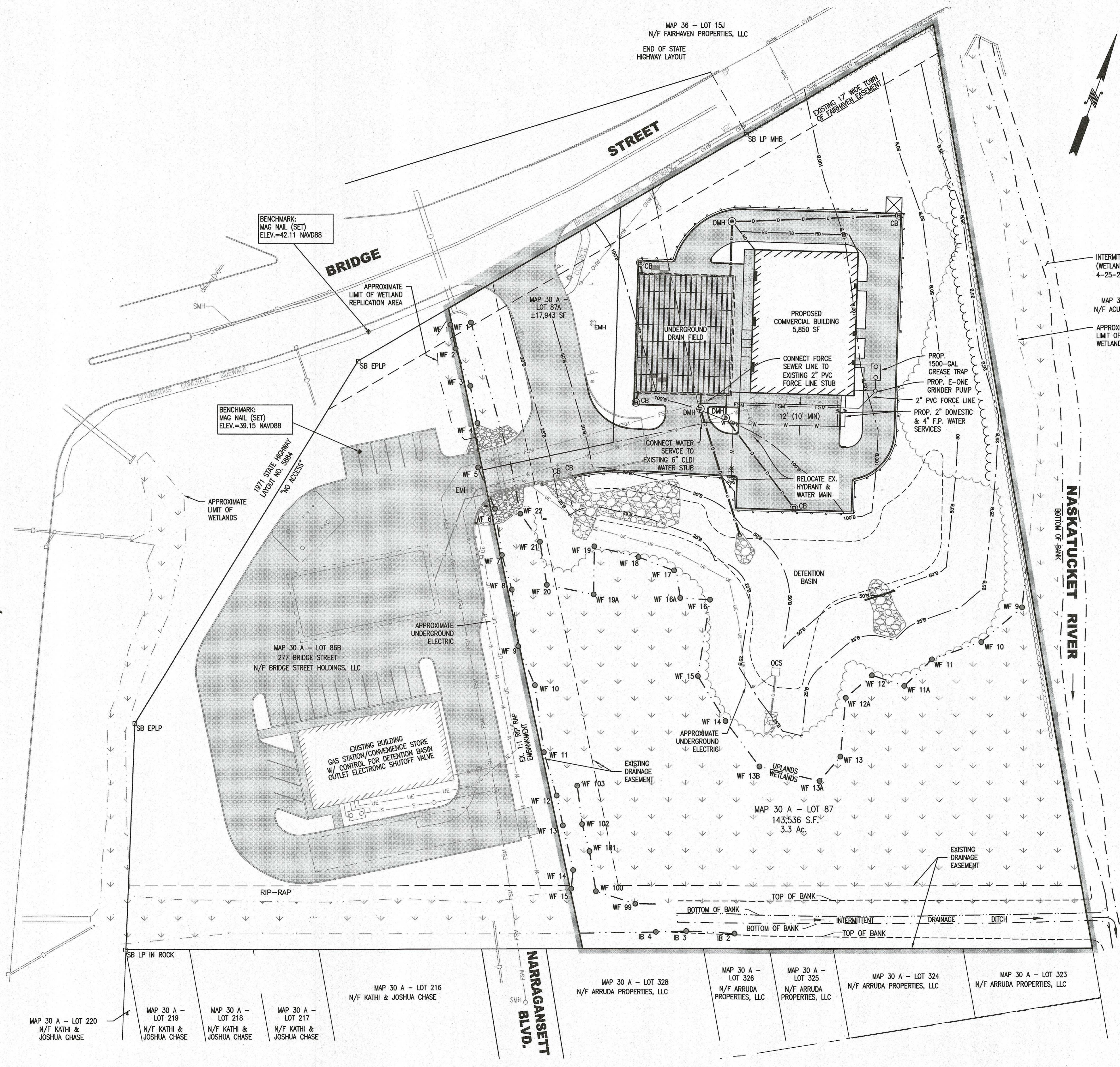
SITE PLAN
GRADING & DRAINAGE PLAN
PROJECT SITE: **MAP 30A - LOT 87 & 87A BRIDGE ST.**
FAIRHAVEN, MASSACHUSETTS
CLIENT INFO: **CARRICORP INDUSTRIES, LTD.**
275 MARTINE STREET, SUITE 110
FALL RIVER, MA 02724

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

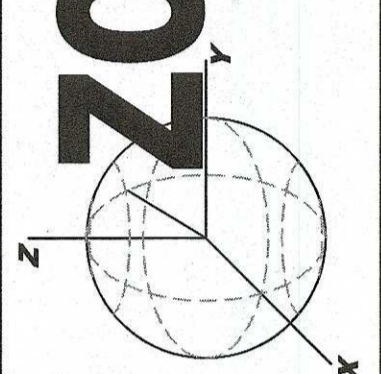
DRAWN BY: RLC
DESIGNED BY: RLC
CHECKED BY: RMC
APPROVED BY: JLB

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(ROUTE 240)



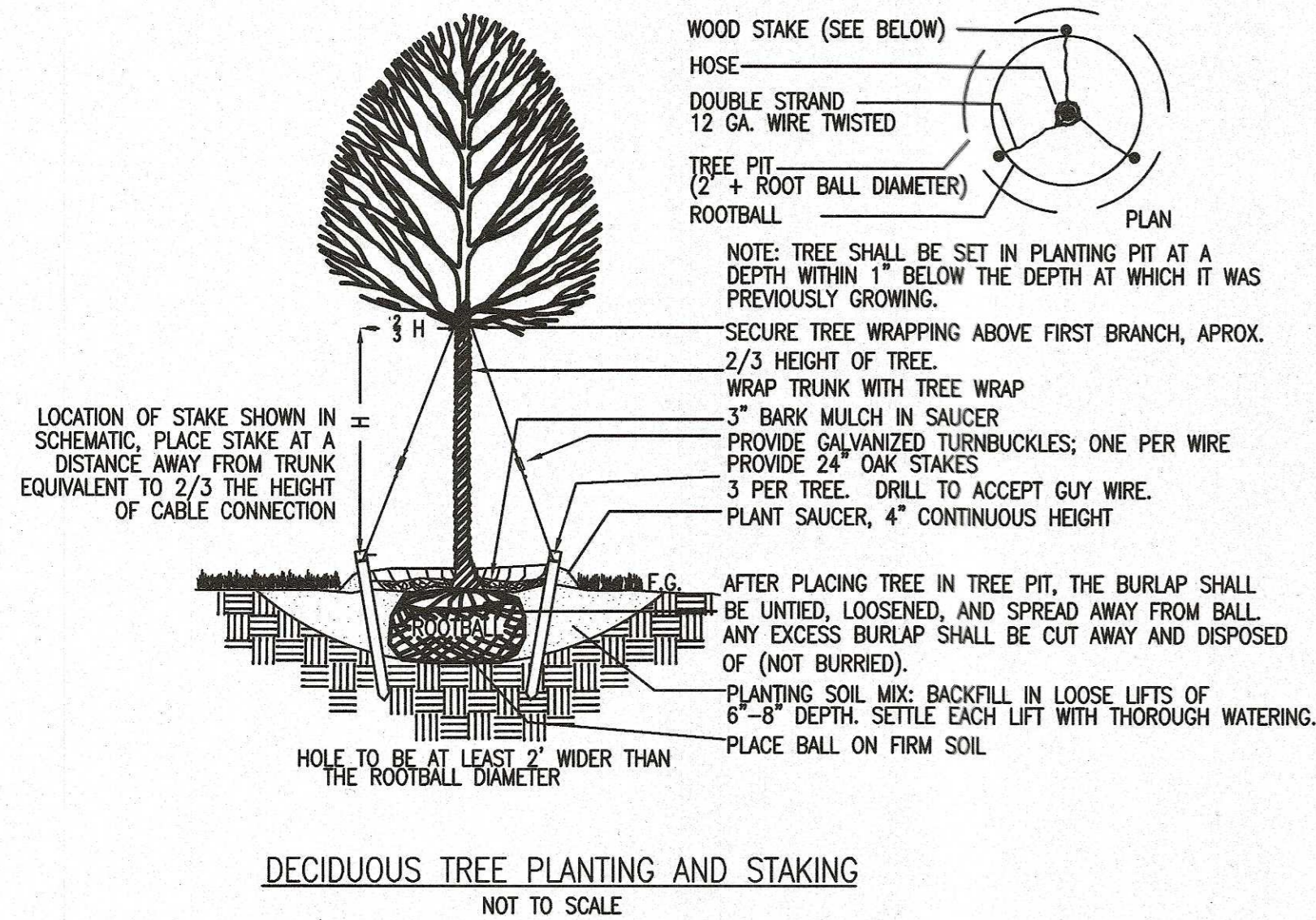
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 PHONE: (508) 947-4208



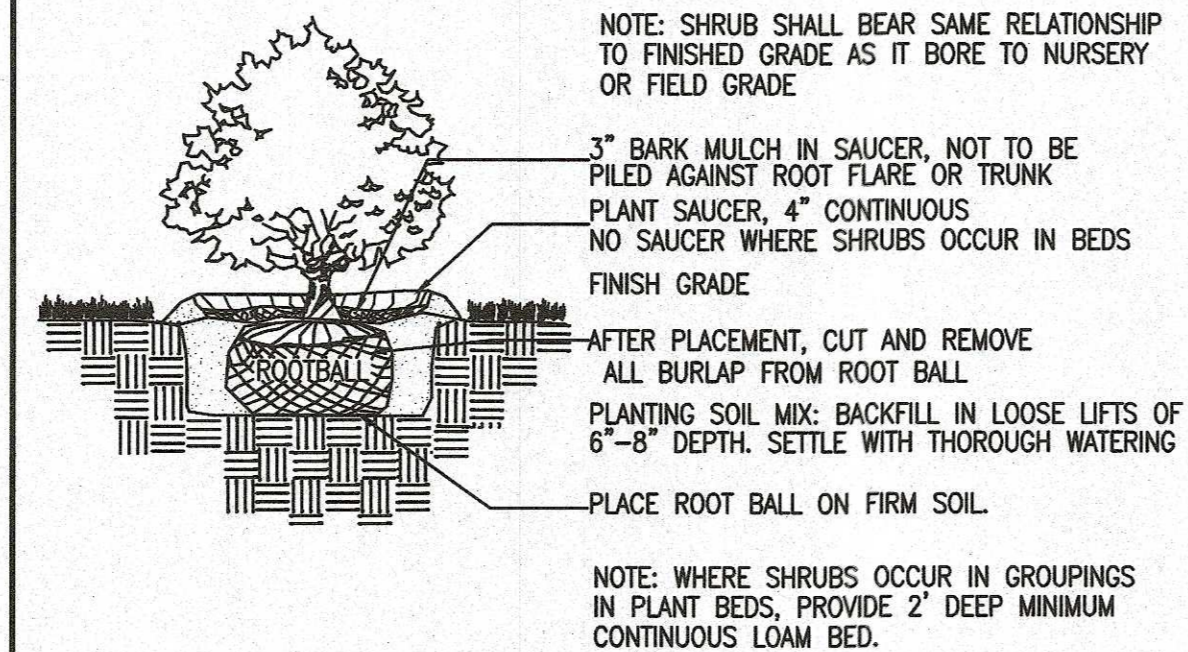
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1.	7/24/2023	PER REVIEW COMMENTS	TEM	JLB
2.	3-14-24	PER REVIEW COMMENTS	TEM	JLB
	4-9-24	PER REVIEW COMMENTS		

SITE PLAN
UTILITY PLAN
MAP 30A - LOT 87 & 87A BRIDGE ST.
 FAIRHAVEN, MASSACHUSETTS
CARRICORP INDUSTRIES, LTD.
 275 MARTINE STREET, SUITE 110
 FALL RIVER, MA 02724

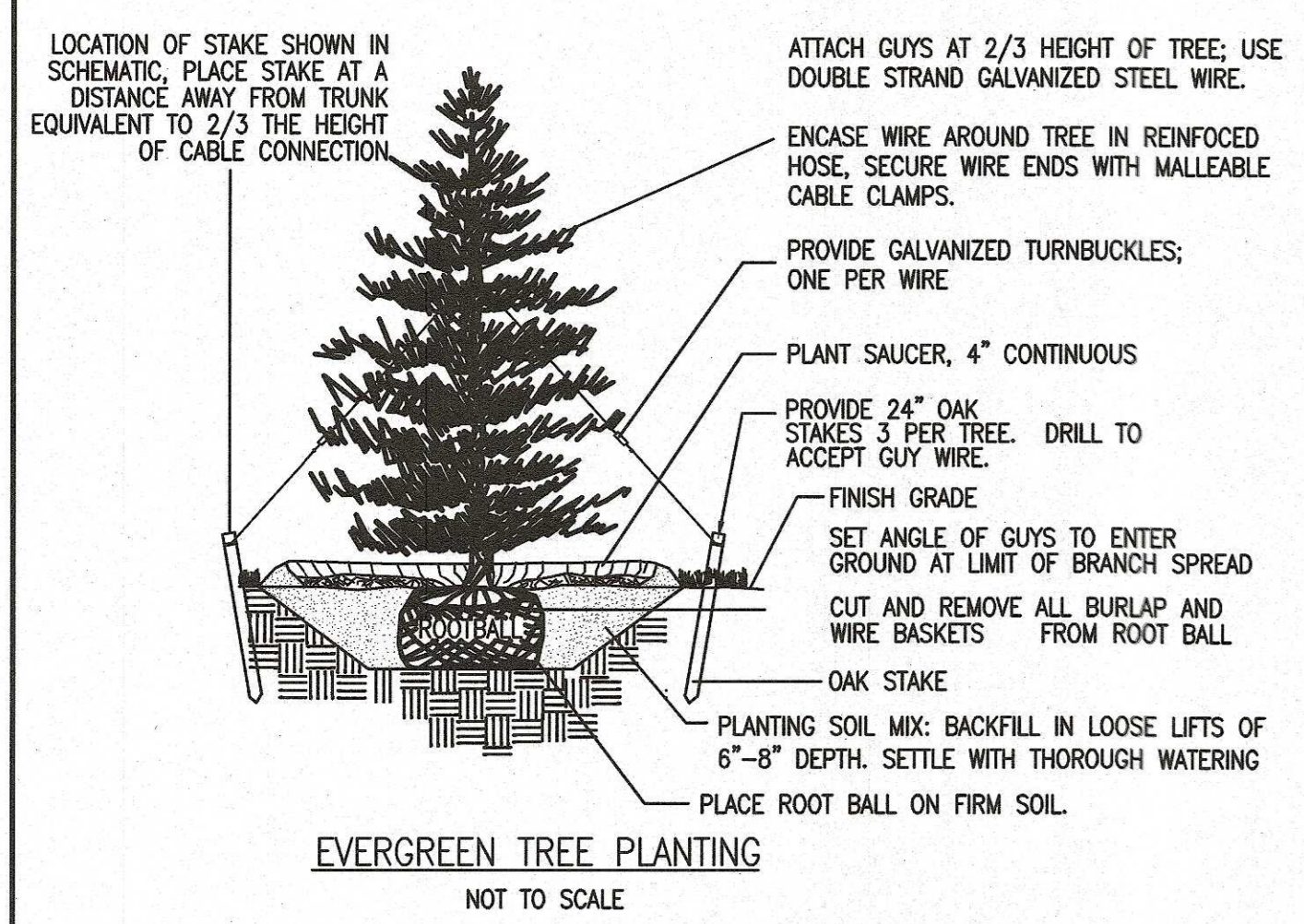
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DECIDUOUS TREE PLANTING AND STAKING
NOT TO SCALE



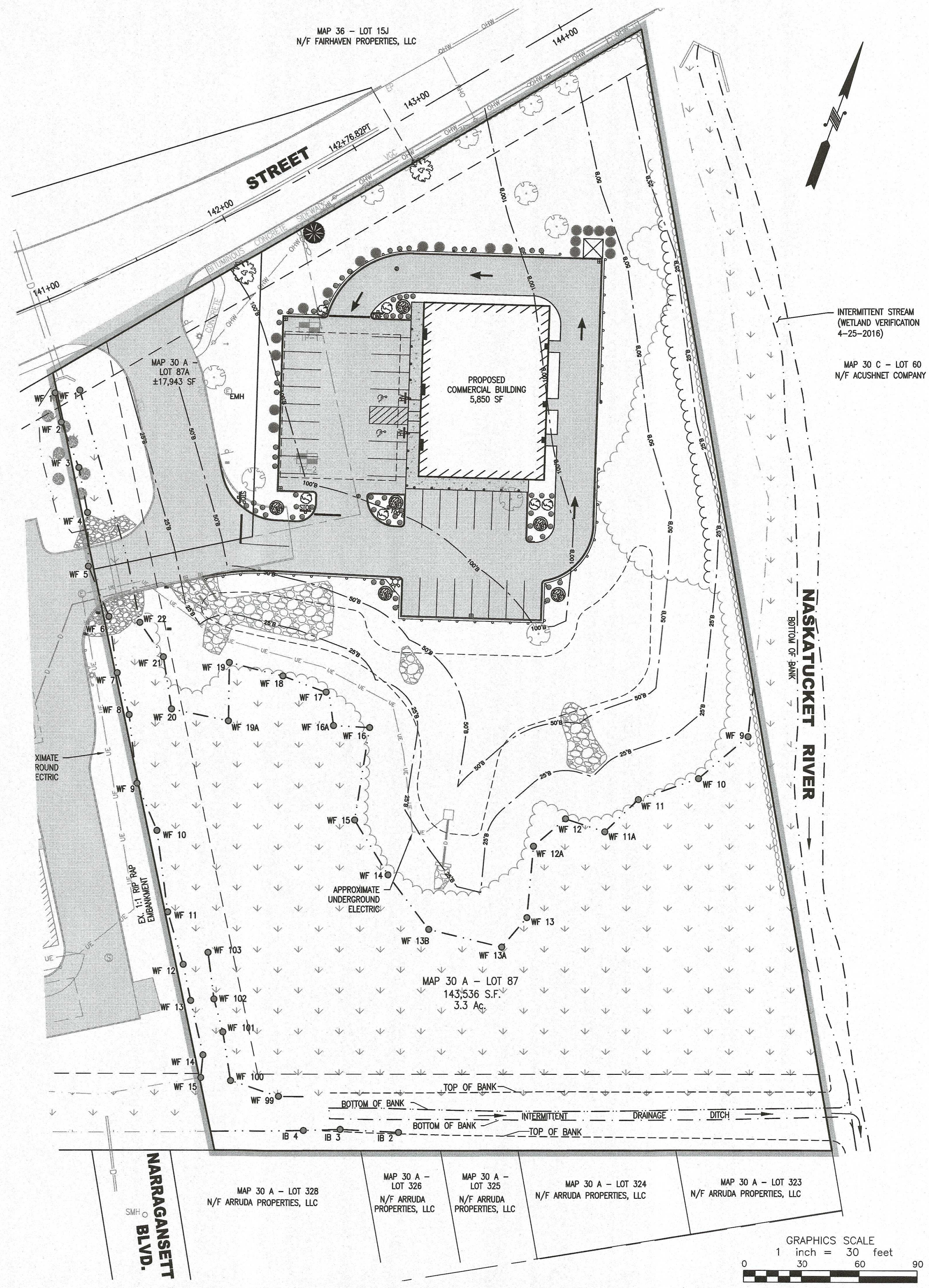
TYPICAL SHRUB PLANTING
NOT TO SCALE



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



P.E. STAMP
1-9-24

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

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

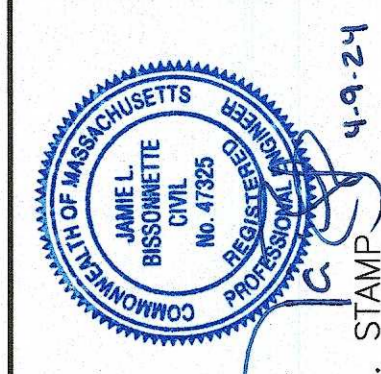
DATE:	PROJECT NUMBER:	DRAWING SCALE:	SHEET ID:
7/24/2023	1057-01-01	1" = 30'	V

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

CLIENT INFO:
MAP 30 A - LOT 328
N/F ARRUDA PROPERTIES, LLC
MAP 30 A - LOT 326
N/F ARRUDA PROPERTIES, LLC
MAP 30 A - LOT 325
N/F ARRUDA PROPERTIES, LLC
MAP 30 A - LOT 324
N/F ARRUDA PROPERTIES, LLC
MAP 30 A - LOT 323
N/F ARRUDA PROPERTIES, LLC

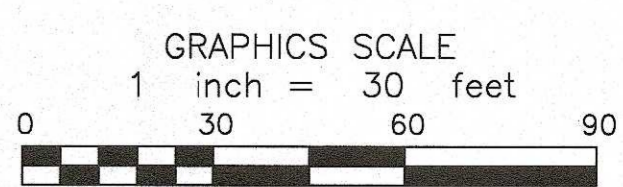
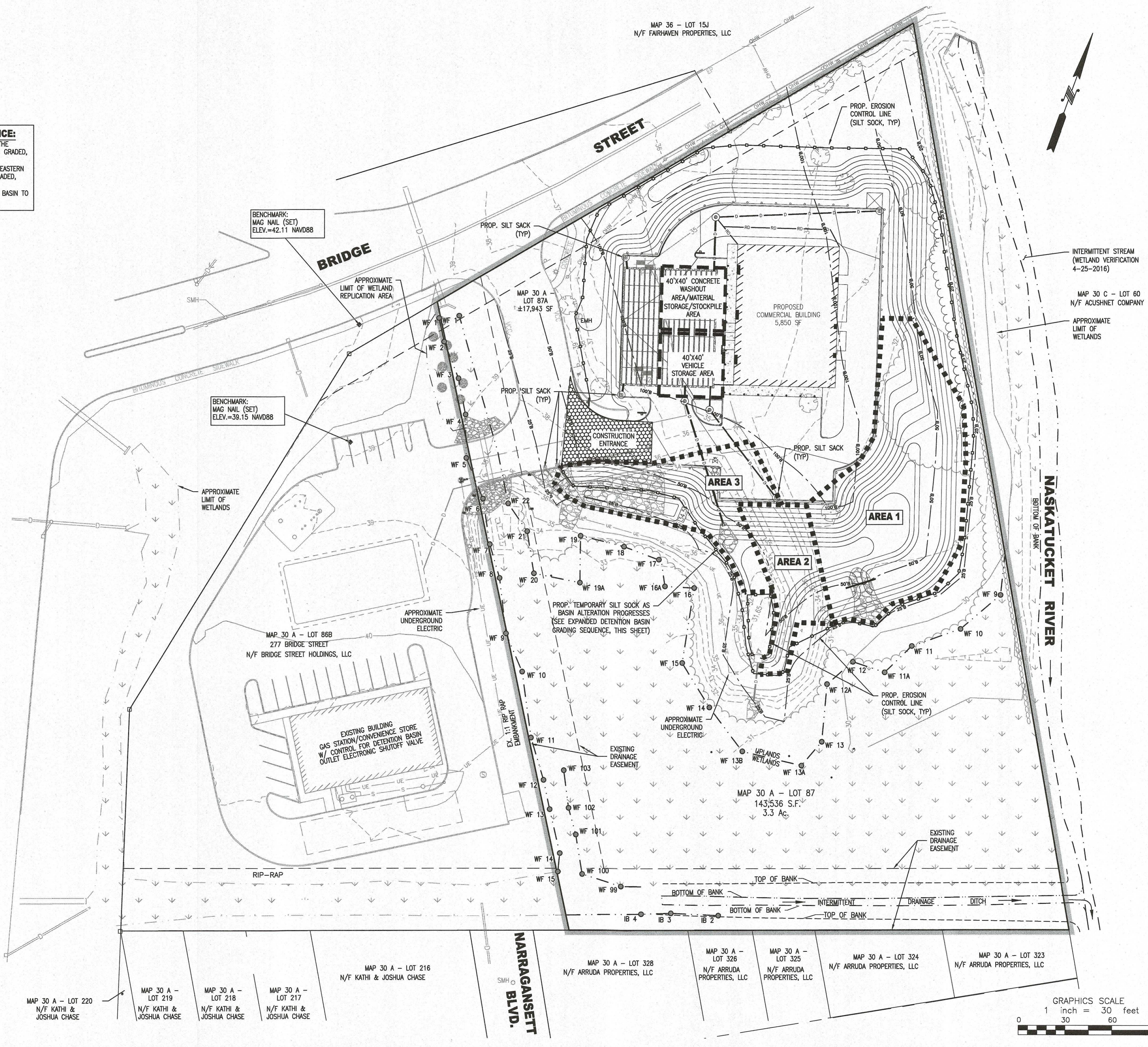
GRAPHICS SCALE
1 inch = 30 feet
0 30 60 90

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P.E. STAMP
4-9-24

- 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).



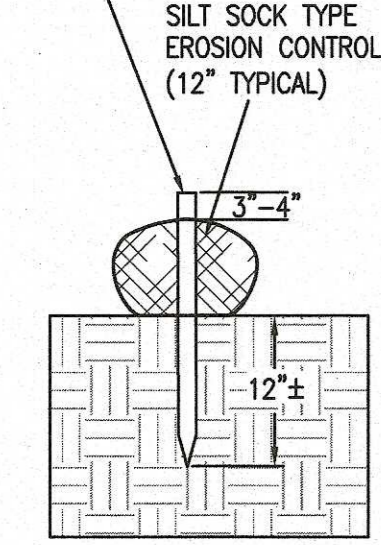
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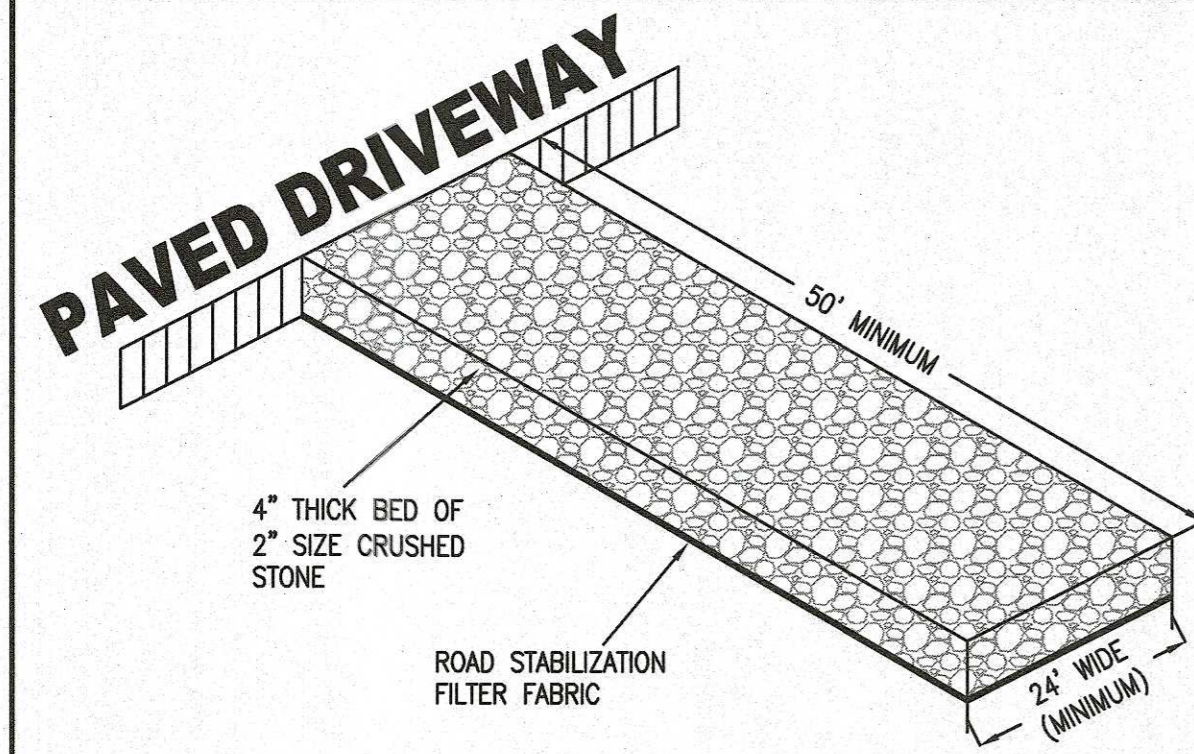
SITE PLAN
EROSION CONTROL PLAN
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FAIRHAVEN, MASSACHUSETTS
CLIENT INFO: **CARRICORP INDUSTRIES, LTD.**
275 MARTINE STREET, SUITE 110
FALL RIVER, MA 02724

C:\Users\lmmis\AppData\Local\Temp\KcFubash_10472\Site Plan - 30A-87\Bridge St. - Fairhaven.dwg

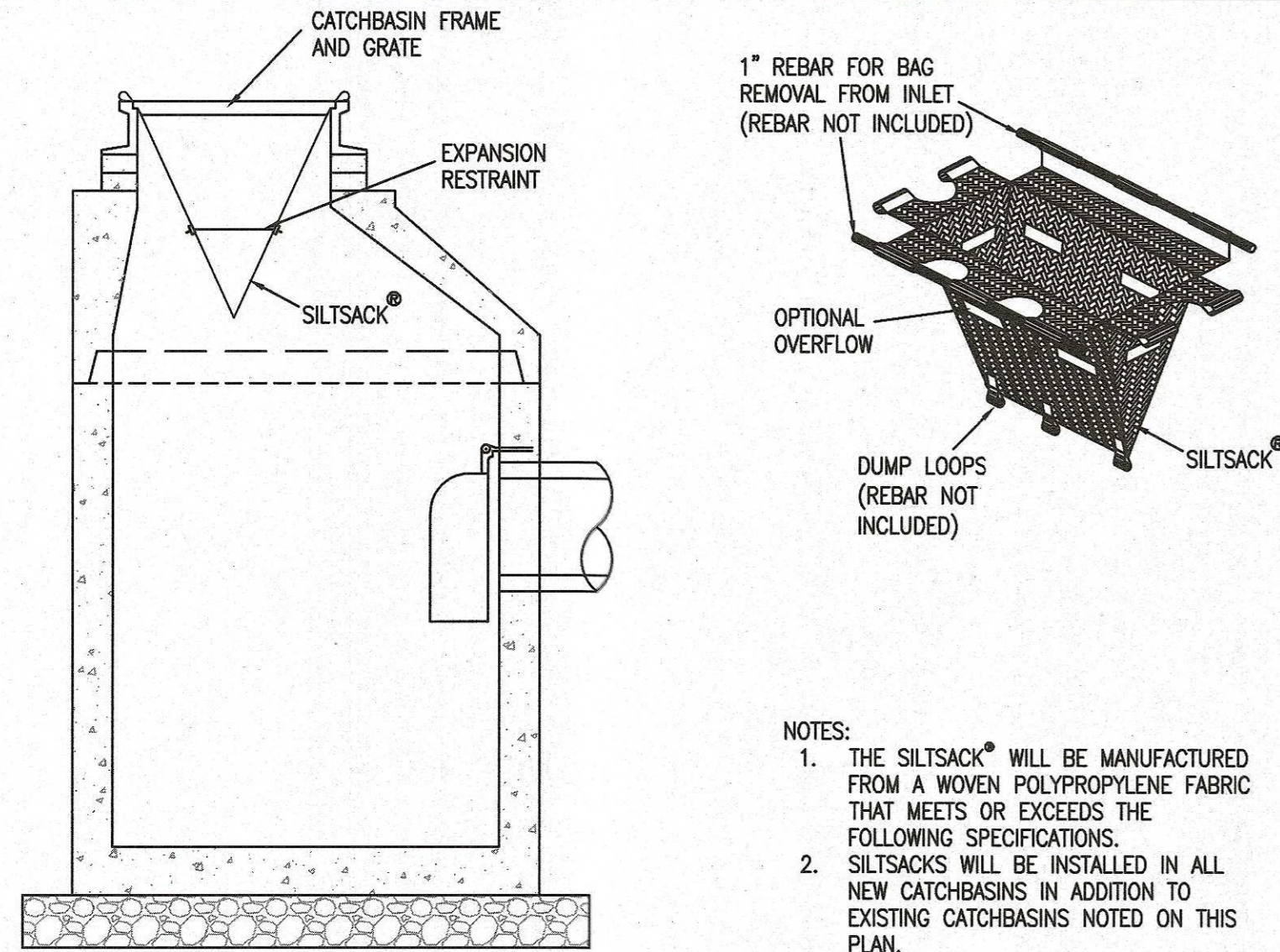
STAKE ON 10' LINEAL SPACING WITH 2" X 2" WOODEN STAKE



SILT SOCK DETAIL
NOT TO SCALE



CONSTRUCTION ENTRANCE
NOT TO SCALE



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

SILT SACK® 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 (6500 HRS)	ASTM D-4356	%	96
AOS	ASTM D-4751	US SIEVE	30
FLOW RATE	ASTM D-4491	GAL/MIN/FT²	66
PERMITIVITY	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 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 1/4" 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 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.

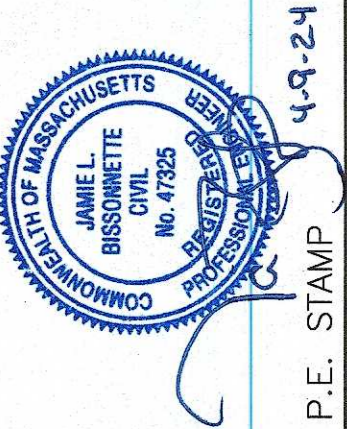
SANITARY WASTES

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.

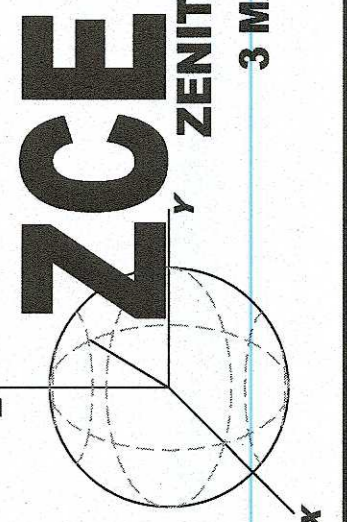
ALL SANITARY WASTE UNITS SHALL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGES IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMPs MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING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

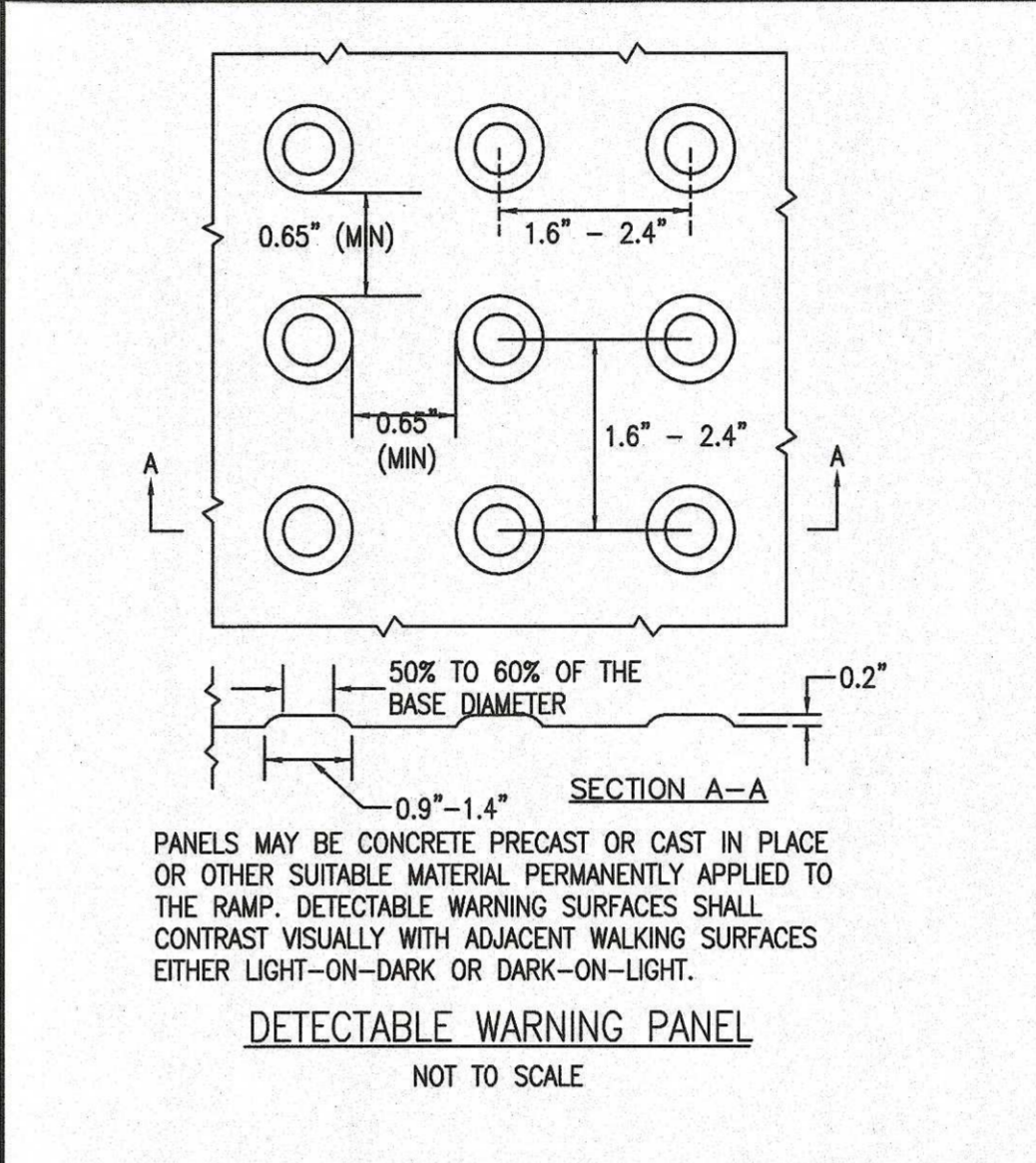
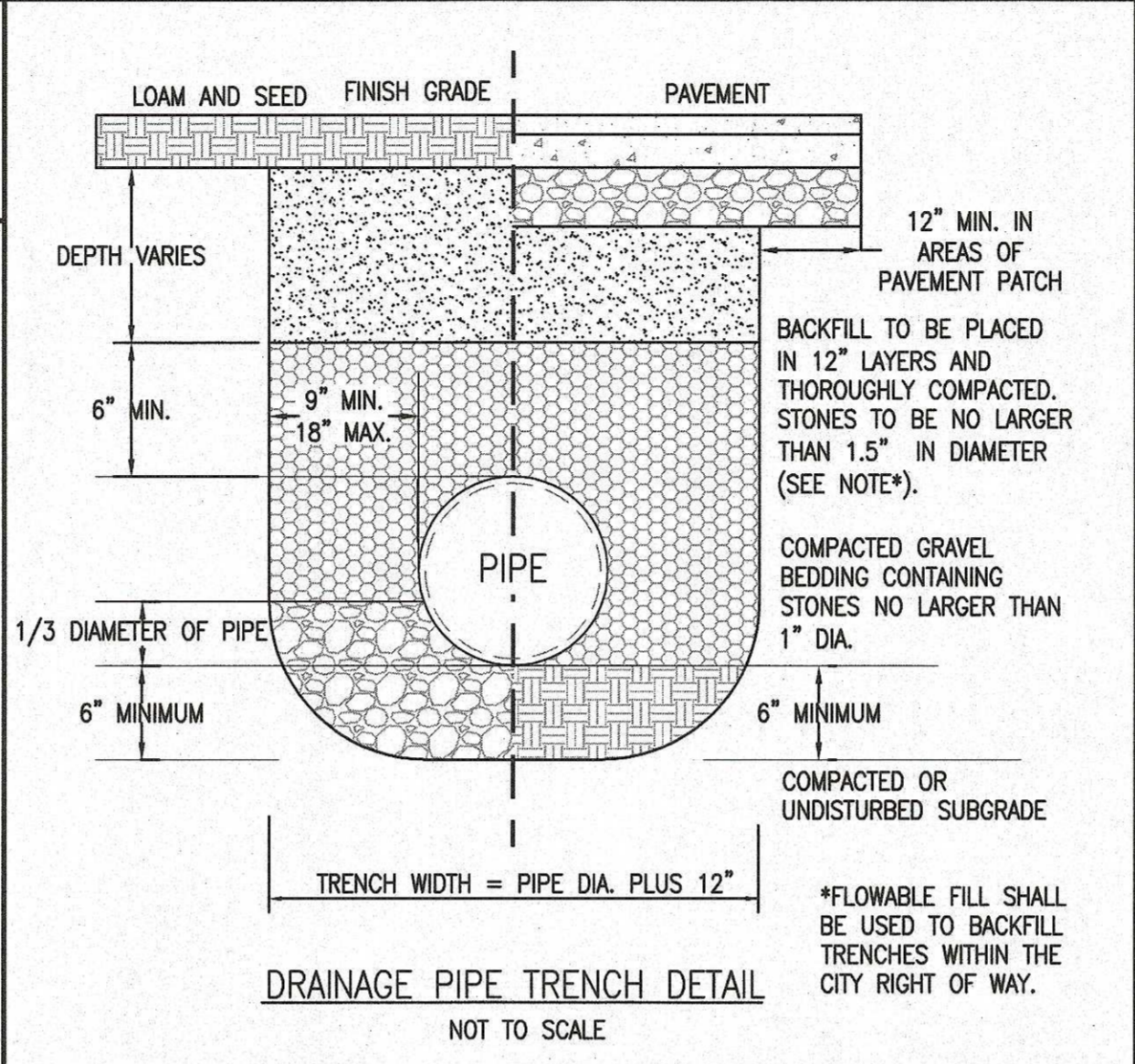
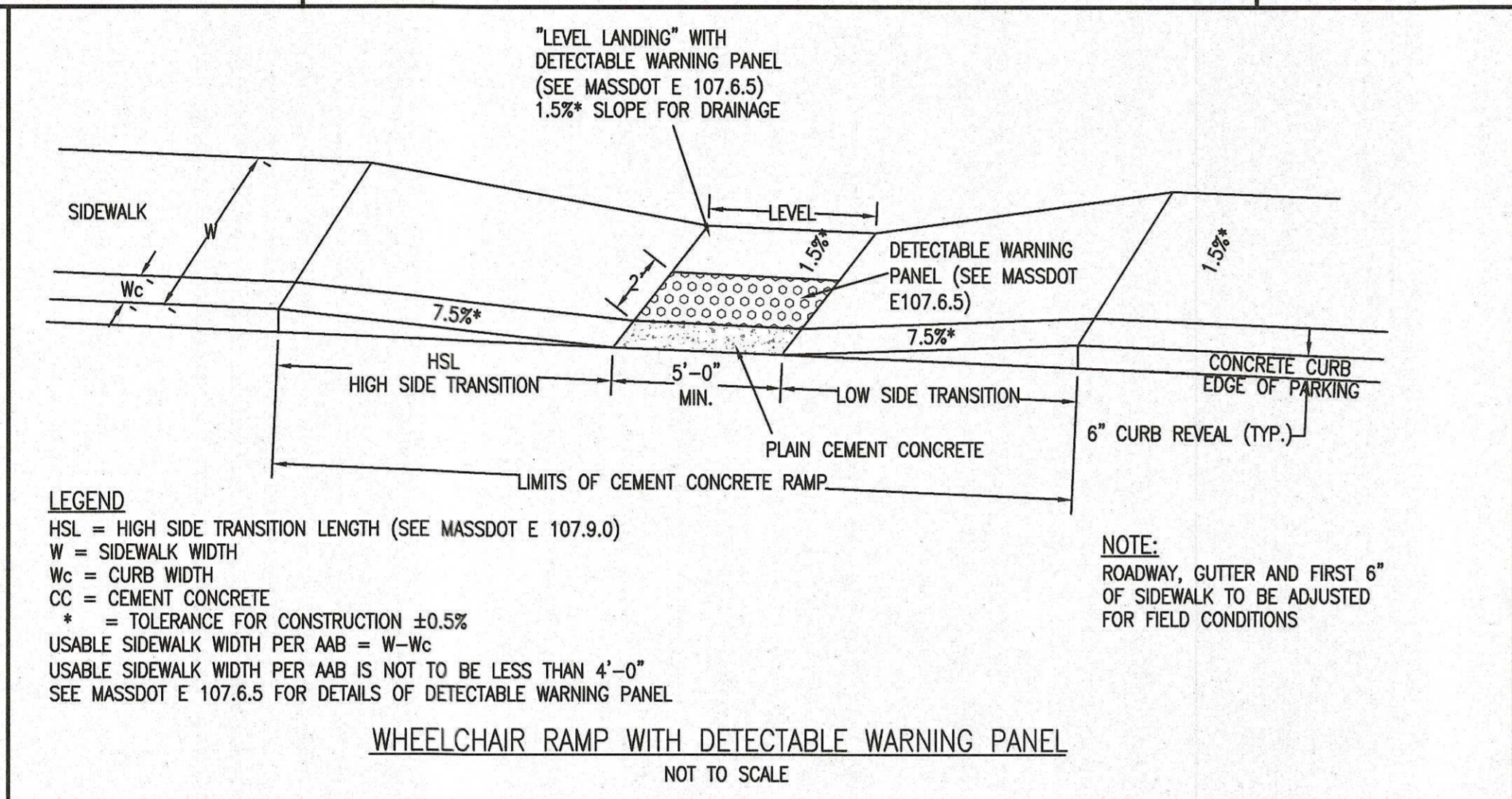
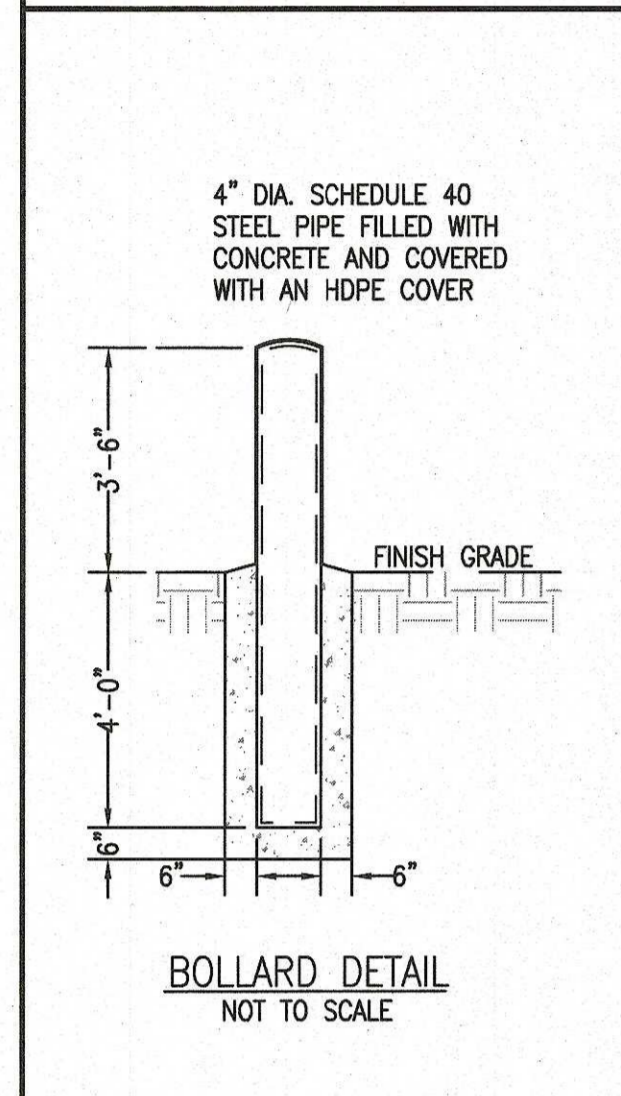
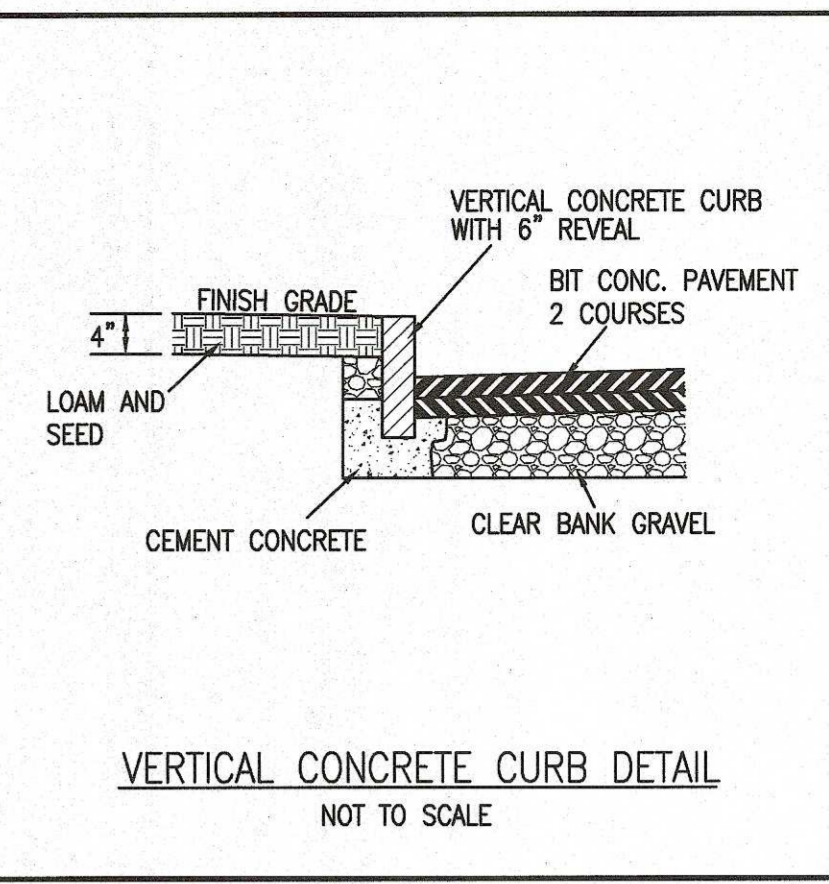
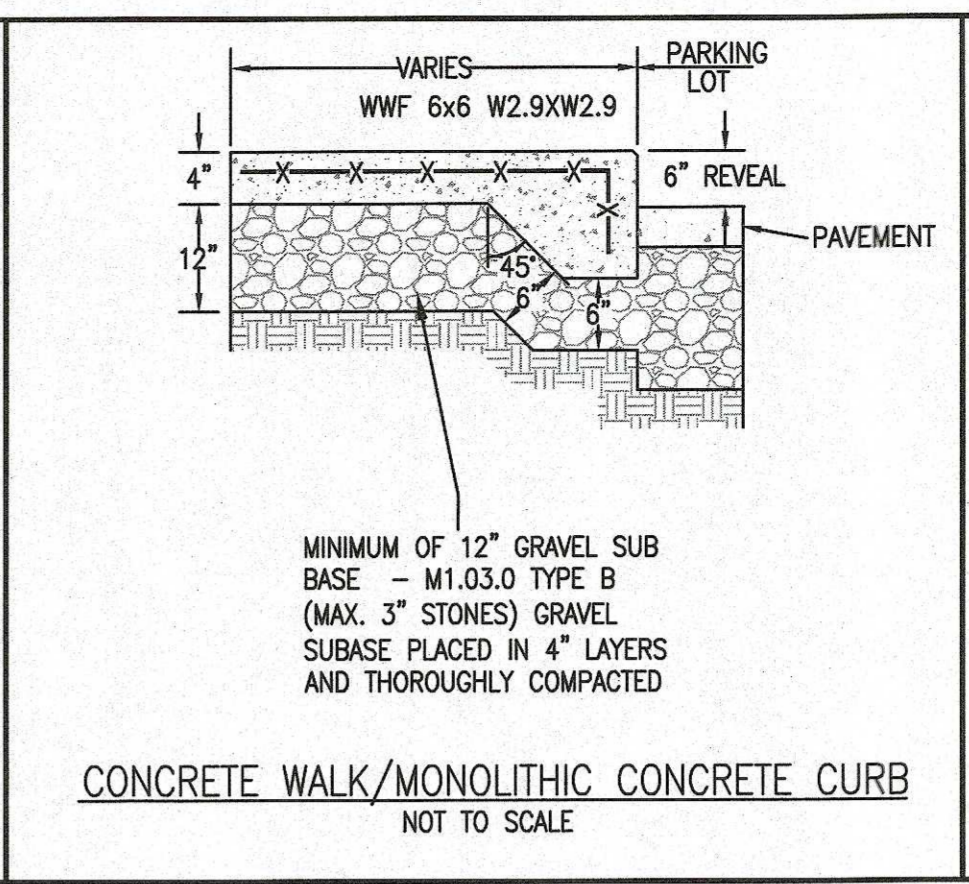
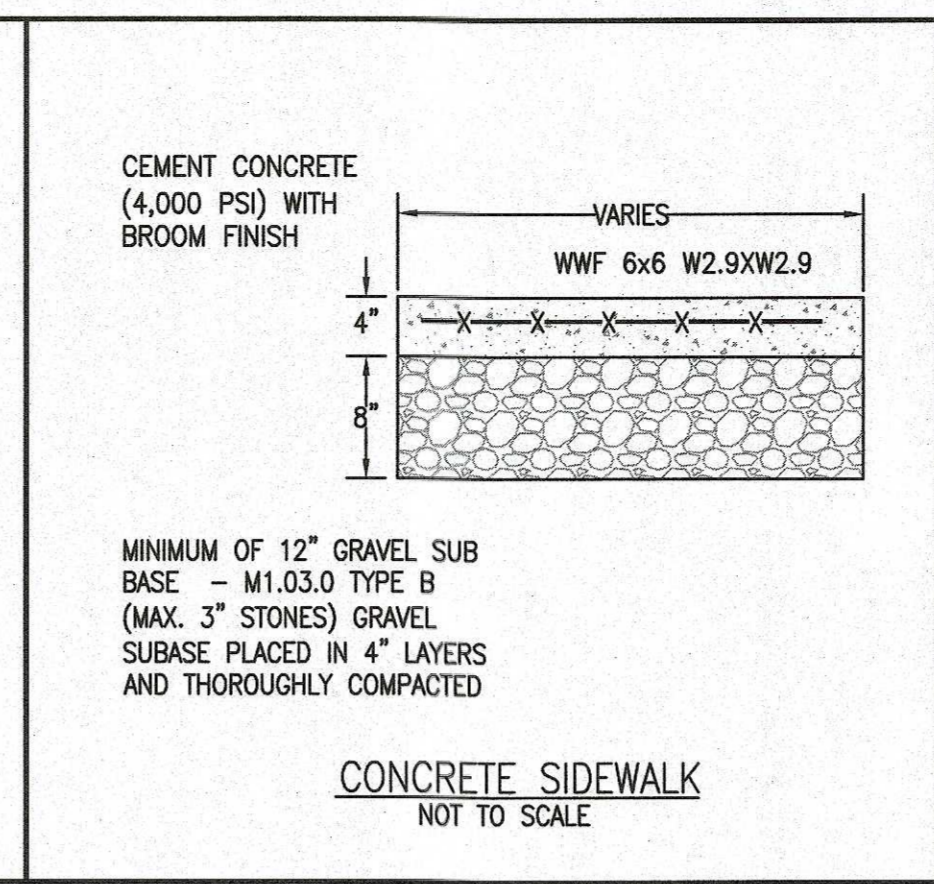
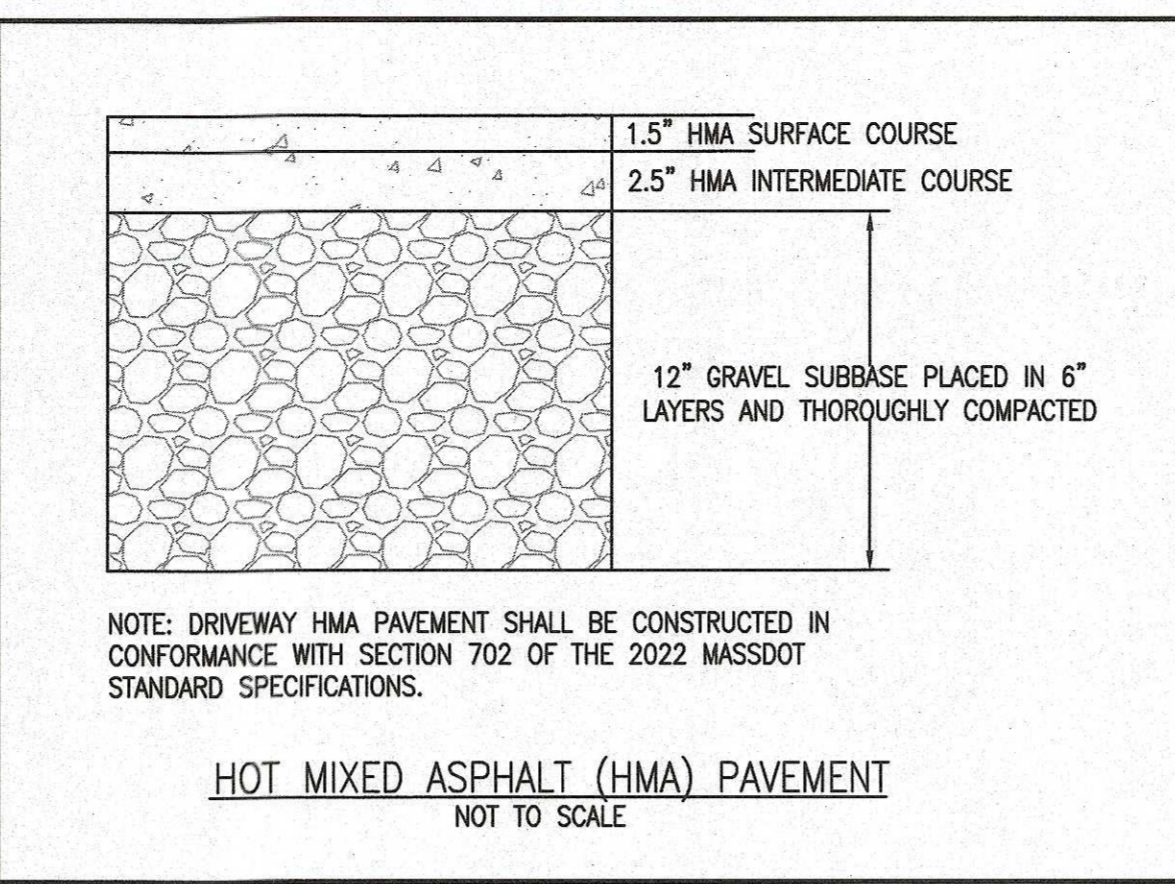
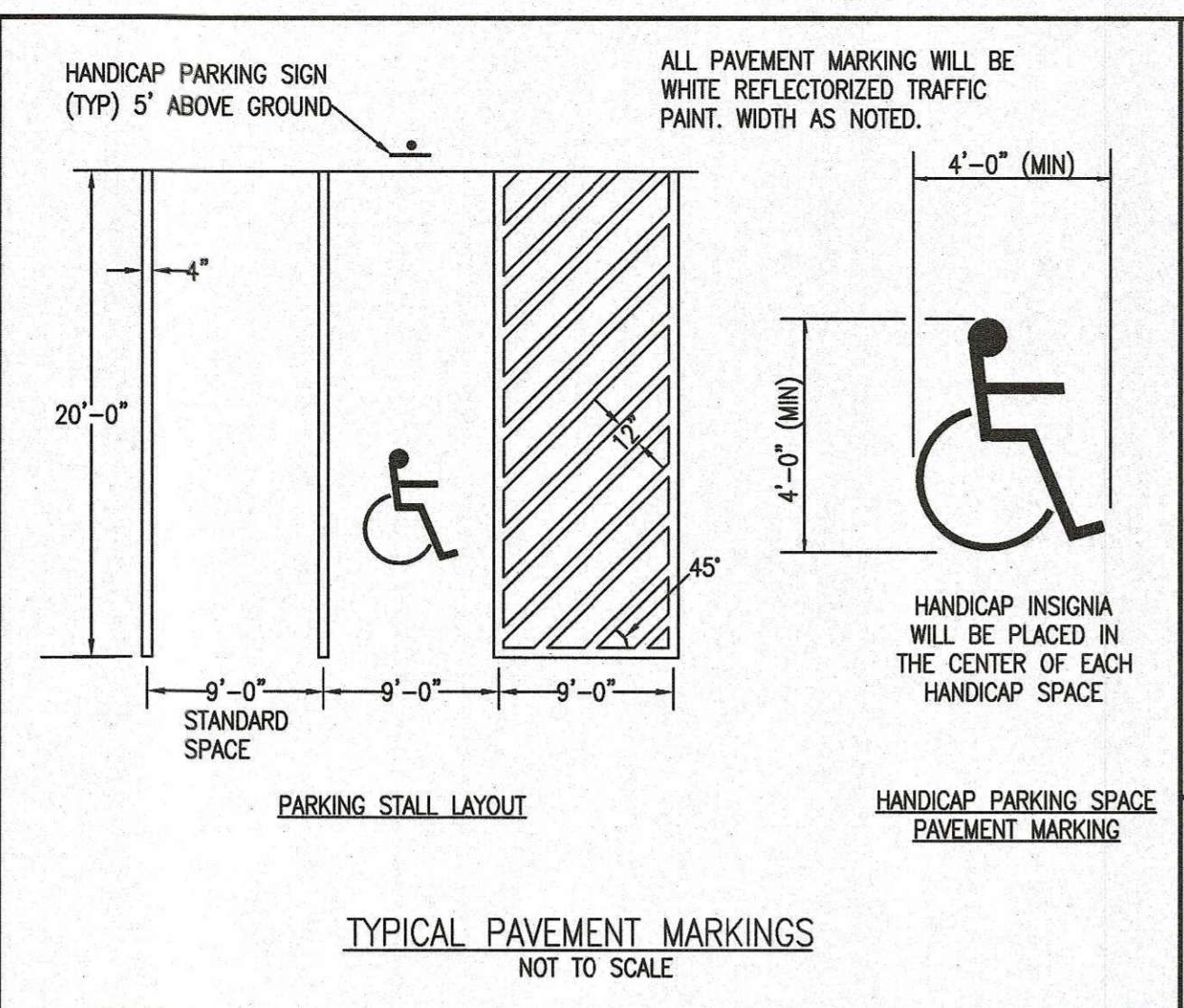
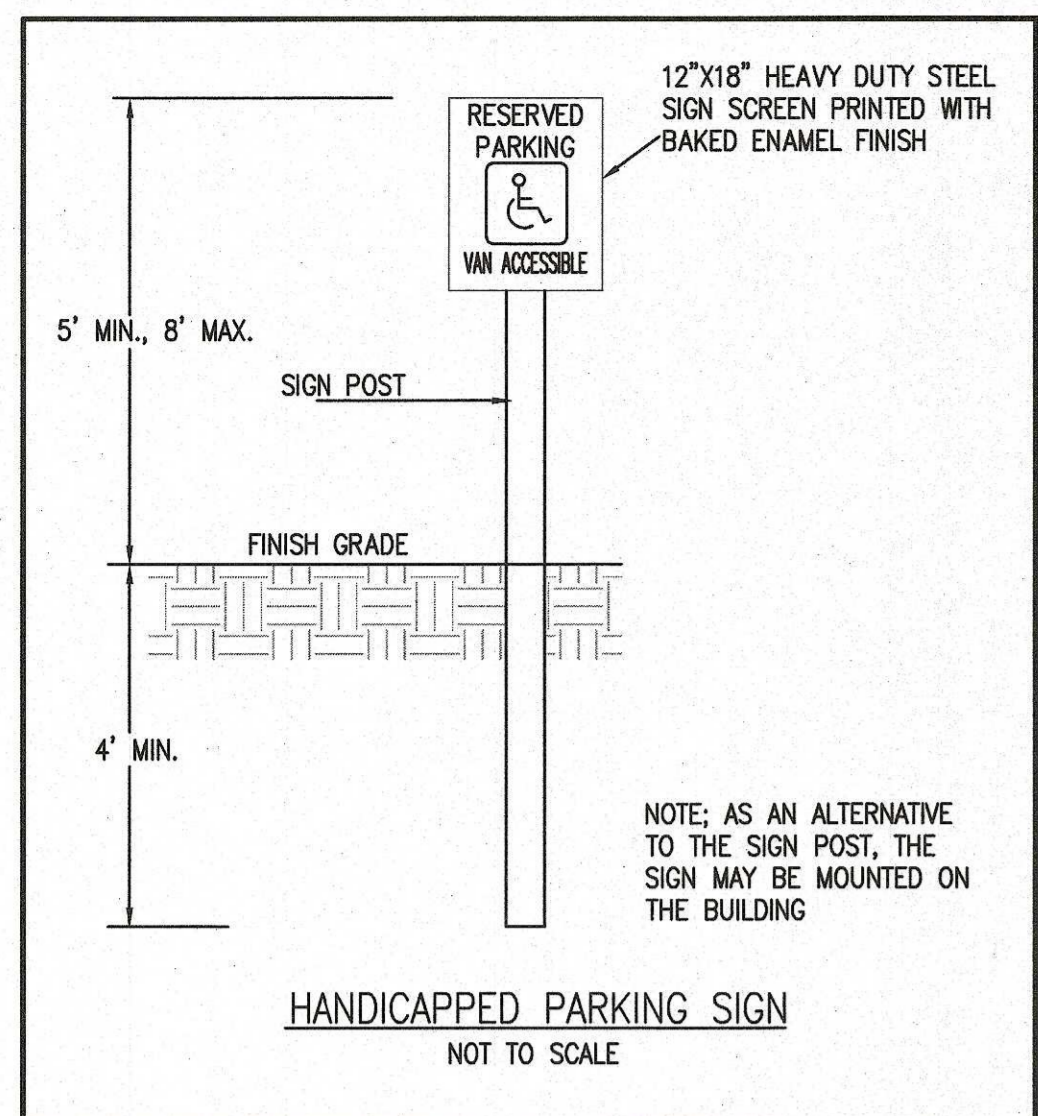


P.E. STAMP
JAMES L. DESORMEAUX
NO. 1289
STATE OF MASSACHUSETTS
ZENITH CONSULTING ENGINEERS, LLC
3 MAIN STREET LAKEVILLE, MA 02347
PHONE: (508) 947-4208



REV.	DATE	DESCRIPTION	BY	APP.
1.	7/24/2023	PER REVIEW COMMENTS	JLB	
2.	10/27-01-01	PER REVIEW COMMENTS	JLB	

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

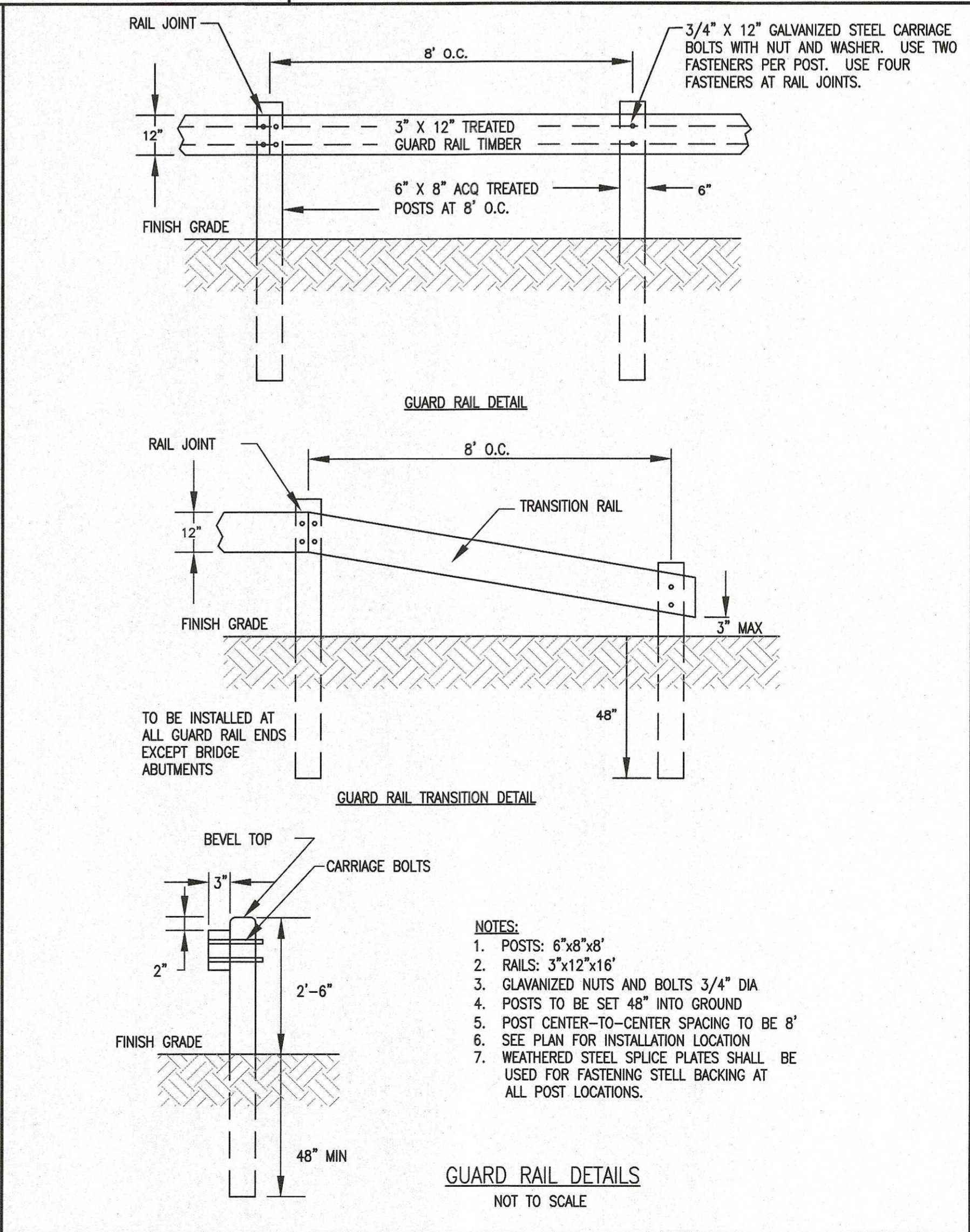
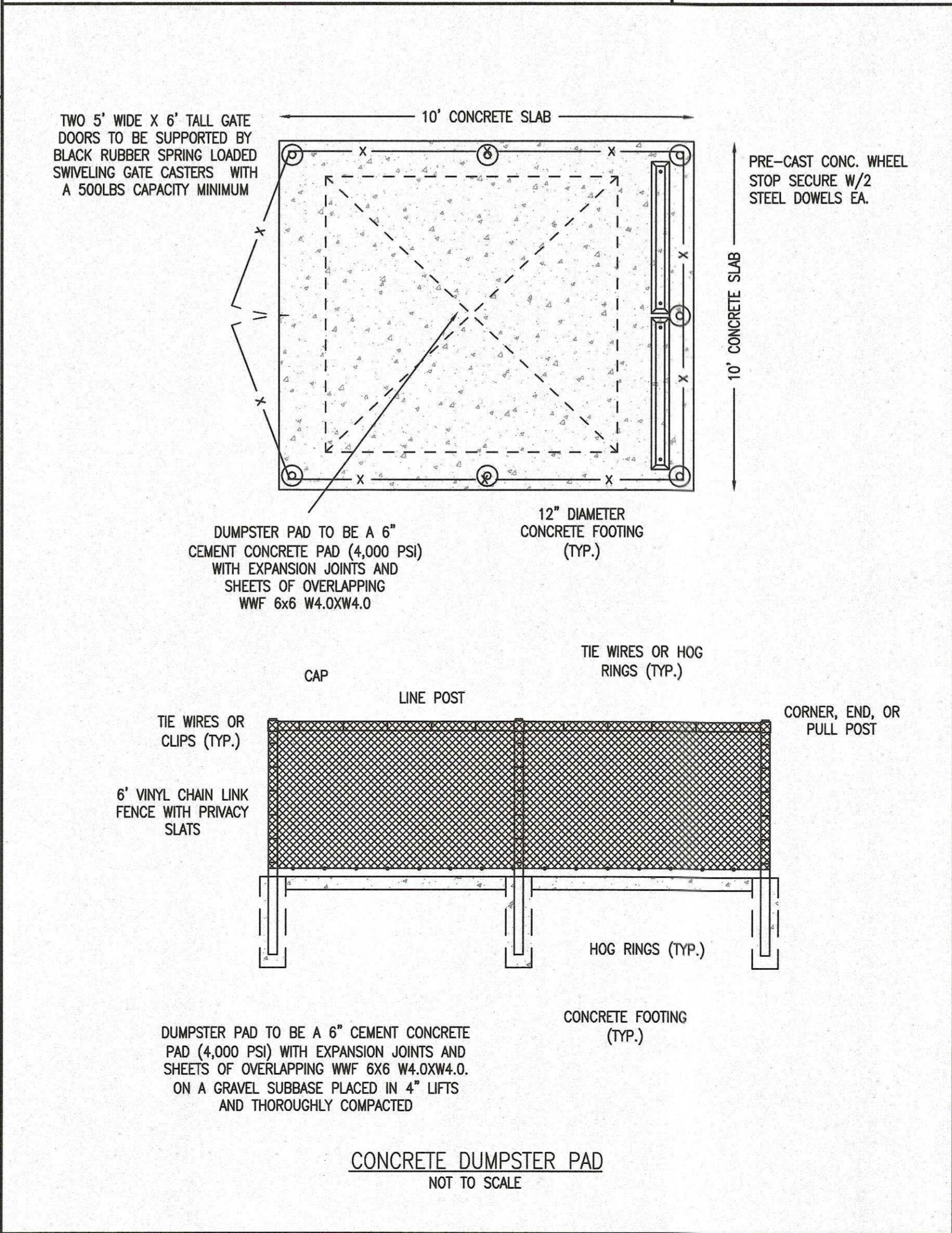
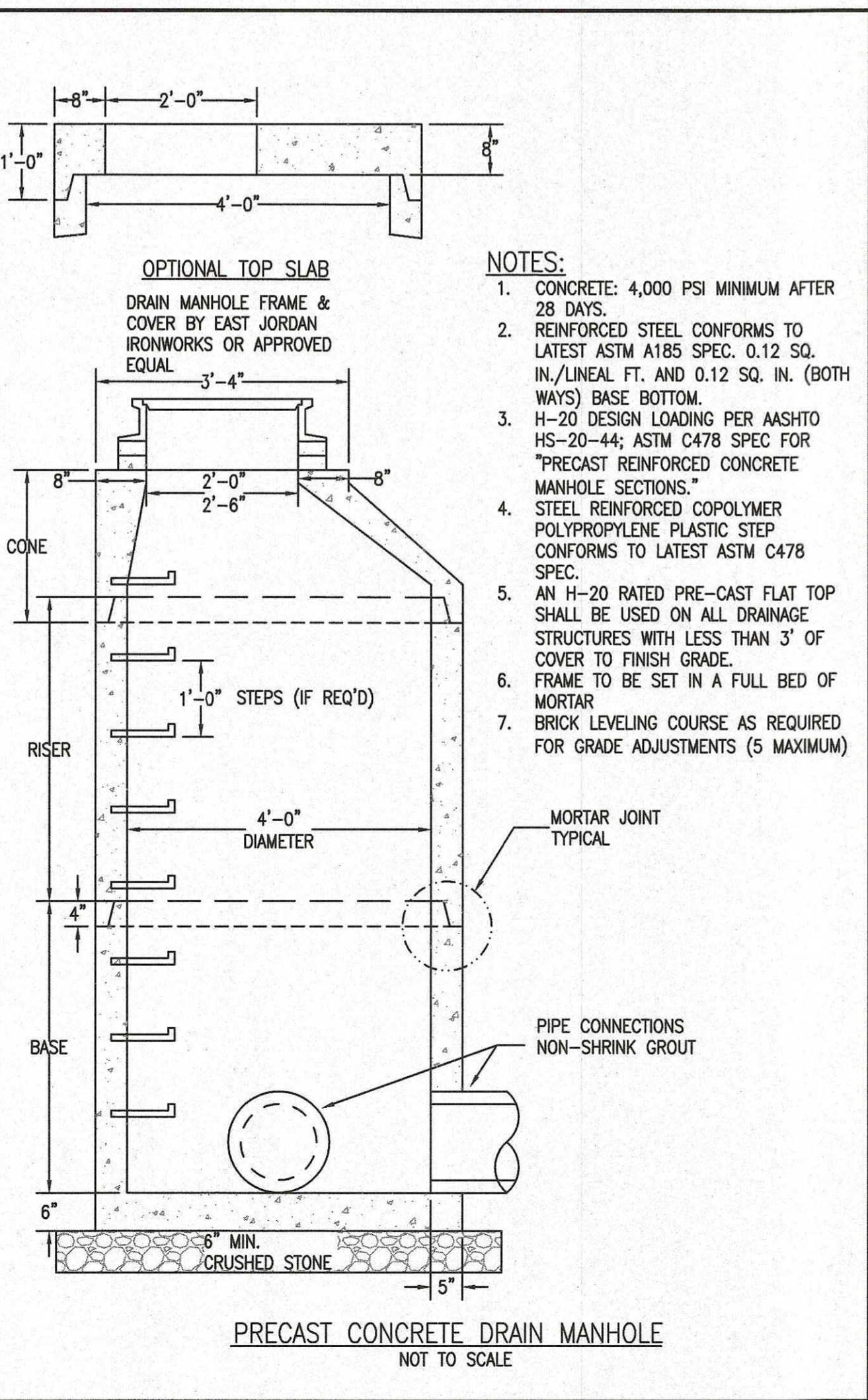
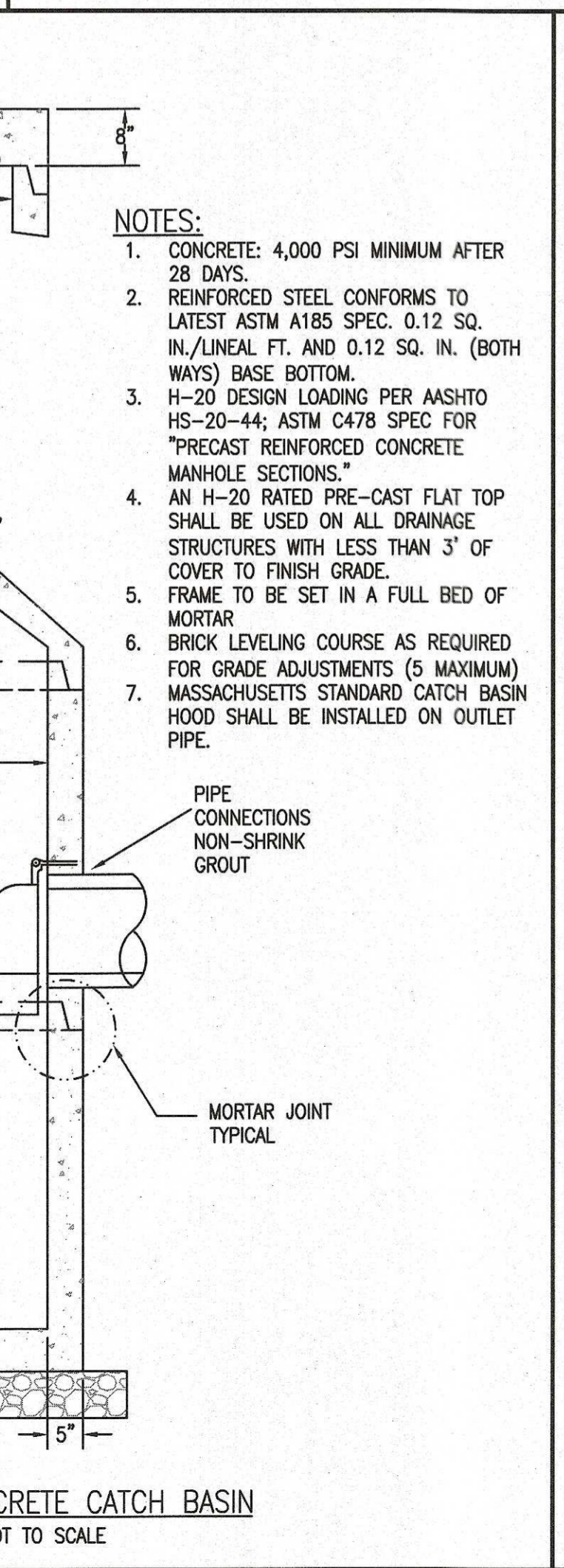
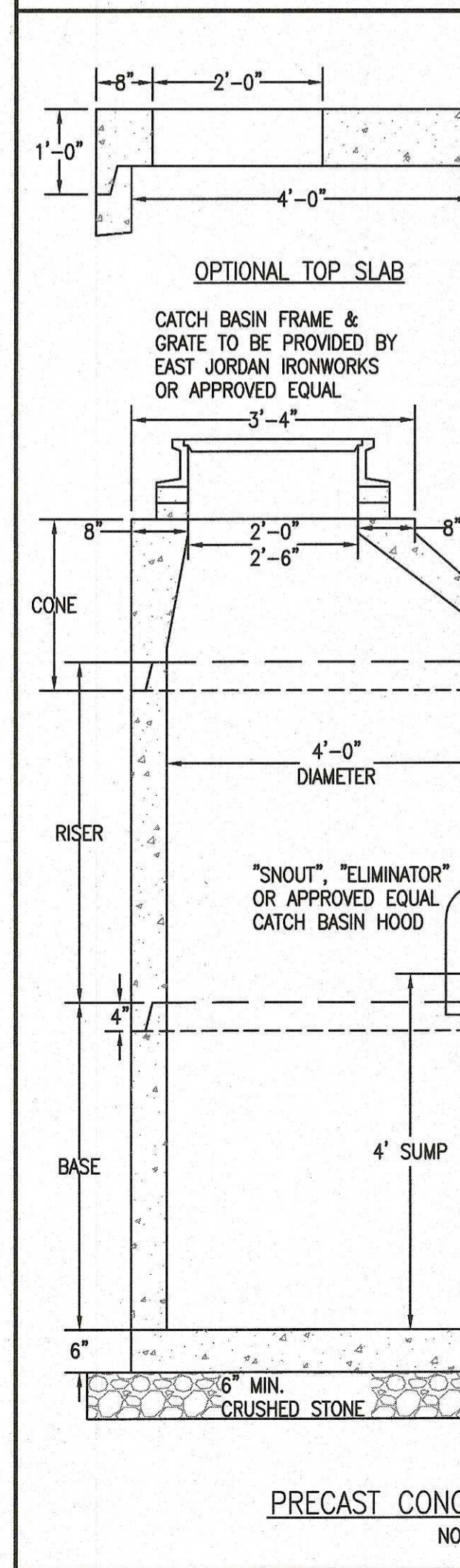


SOIL LOGS:
PERFORMED ON: 7/21/2023
PERFORMED BY: JAMIE BISSONNETTE, ZENITH CONSULTING ENG. LLC.

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
		88	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

MASSACHUSETTS REGISTERED PROFESSIONAL ENGINEER
JAMIE BISSONNETTE
No. 97295

4-9-24
P.E. STAMP

APP.	JLB	TEM	JLB
BY	TEM	TEM	JLB

SITE PLAN
SITE DETAILS

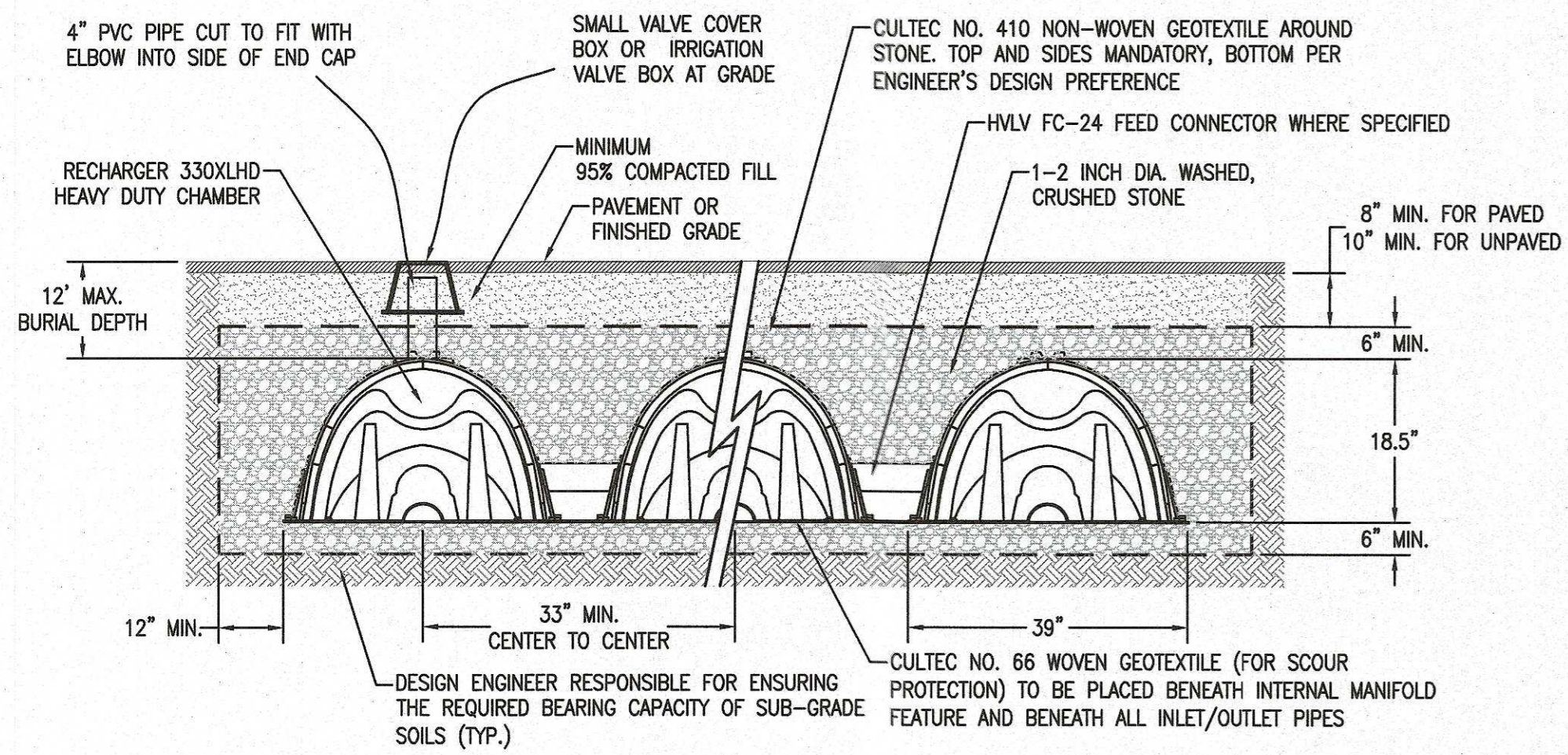
PROJECT SITE: MAP 30A - LOT 87 & 87A BRIDGE ST. FAIRHAVEN, MASSACHUSETTS
CLIENT INFO: CARRICORP INDUSTRIES, LTD. 275 MARTINE STREET, SUITE 110 FALL RIVER, MA 02724

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

DATE: 7/24/2023
REV. DATE DESCRIPTION
1. 3-14-24 PER REVIEW COMMENTS
2. 4-9-24 PER REVIEW COMMENTS

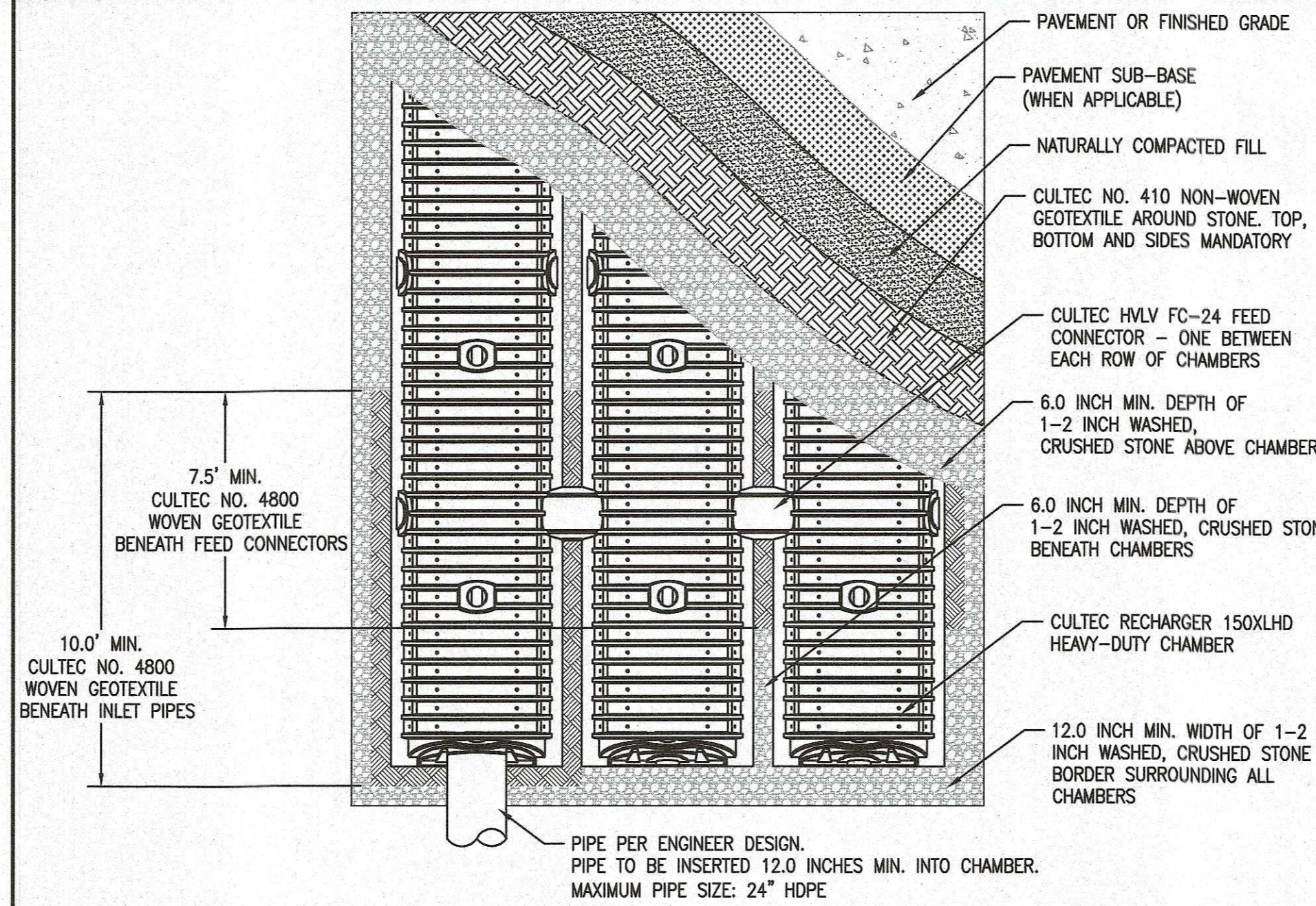
PROJECT NUMBER: 1057-01-01
DRAWING SCALE: AS SHOWN
SHEET ID: D1

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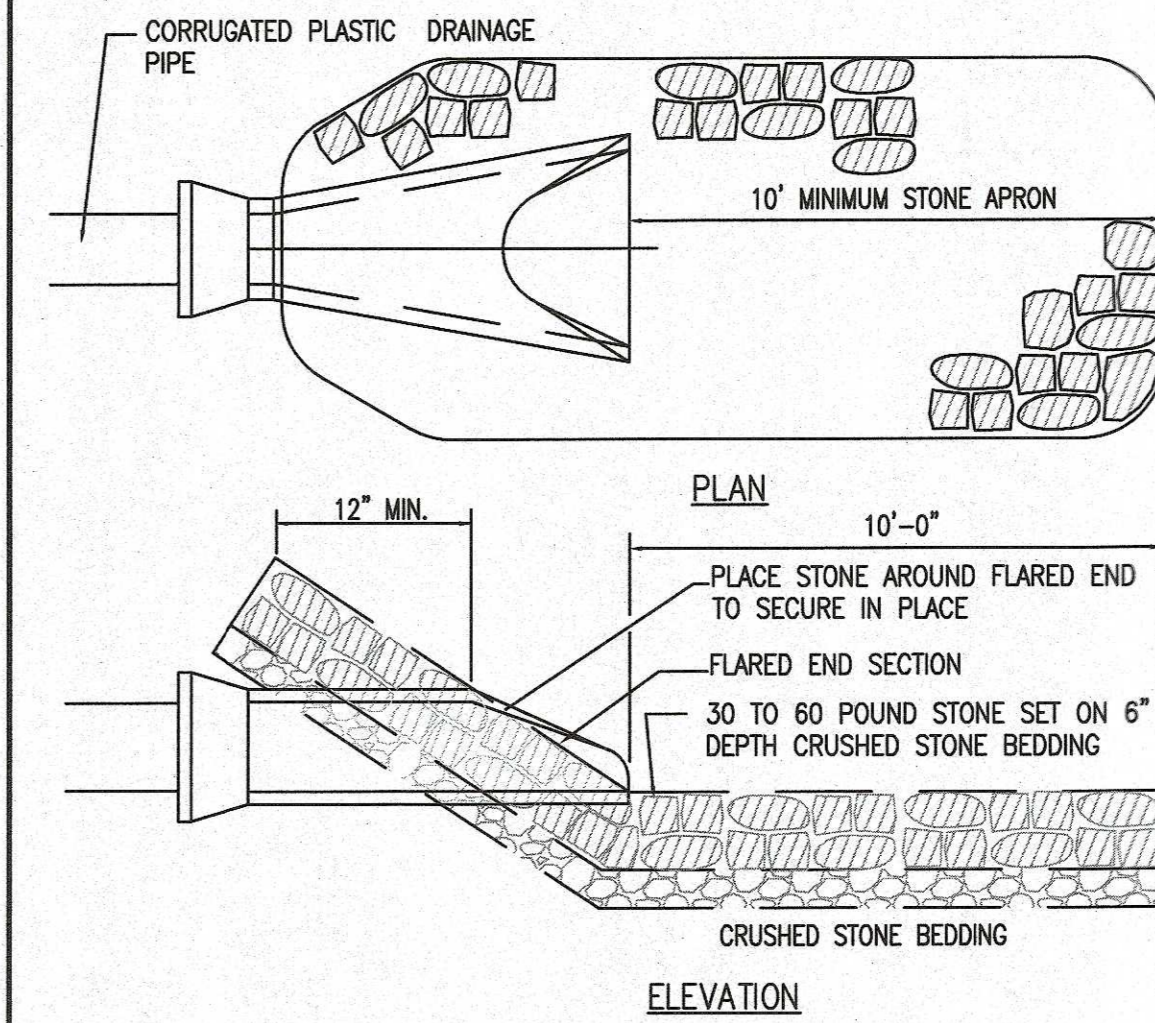


GENERAL NOTES
 RECHARGER 150XL HD BY CULTEC, INC. OF BROOKFIELD, CT.
 STORAGE PROVIDED = 11.32 CF/FT PER DESIGN UNIT.
 REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
 THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION 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.

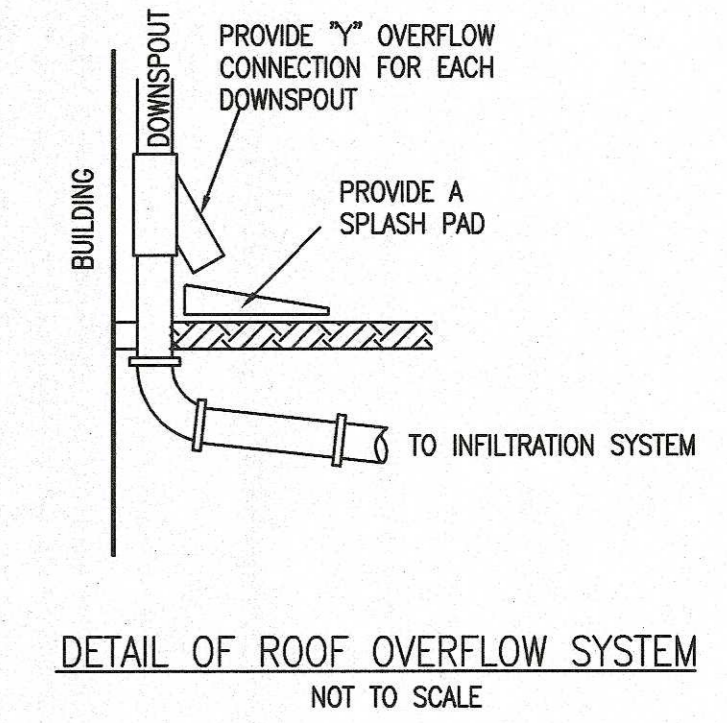
CULTEC CONTACTOR 150XLHD DETAIL OF DRAIN INFILTRATION SYSTEM
 NOT TO SCALE



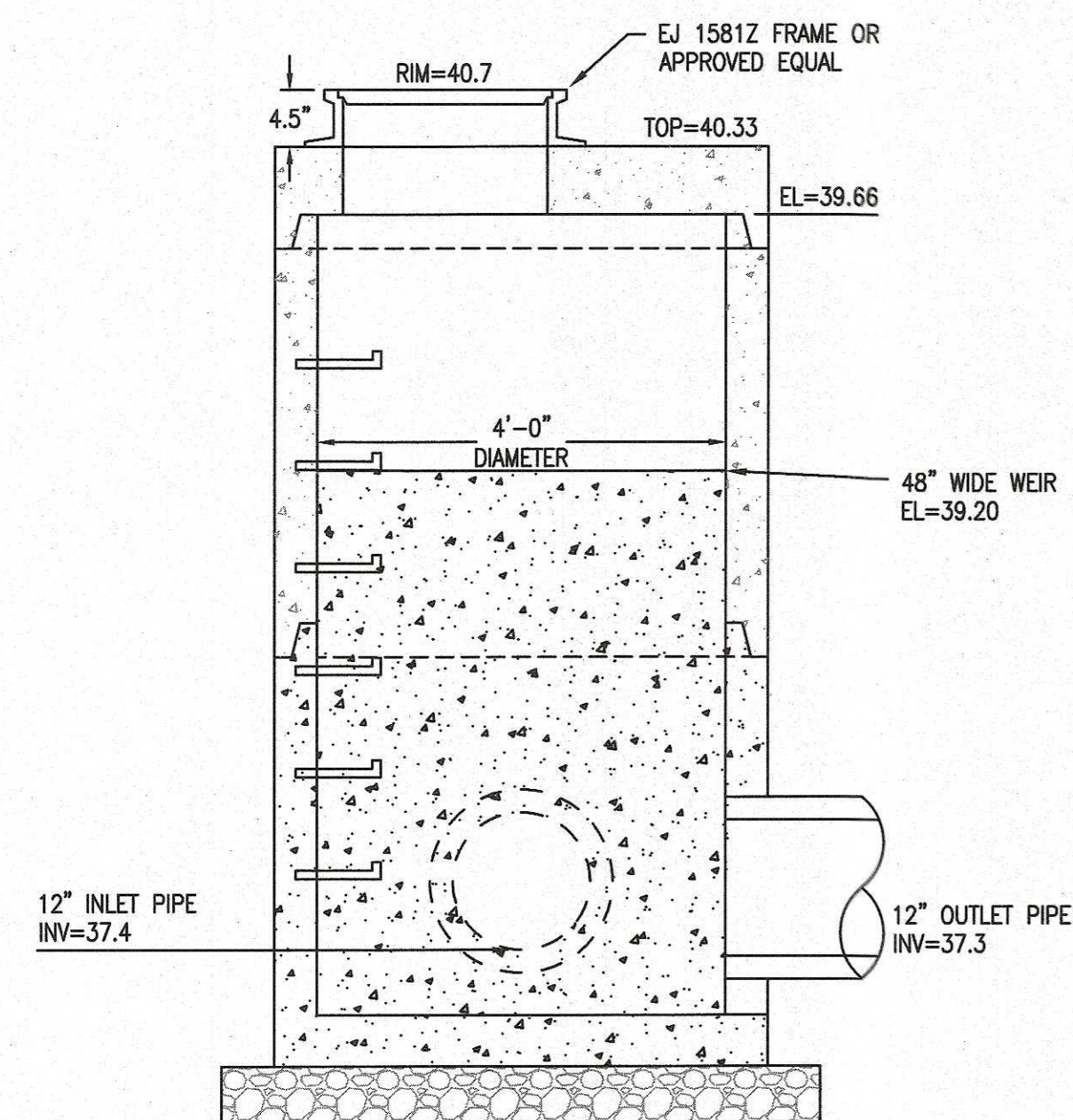
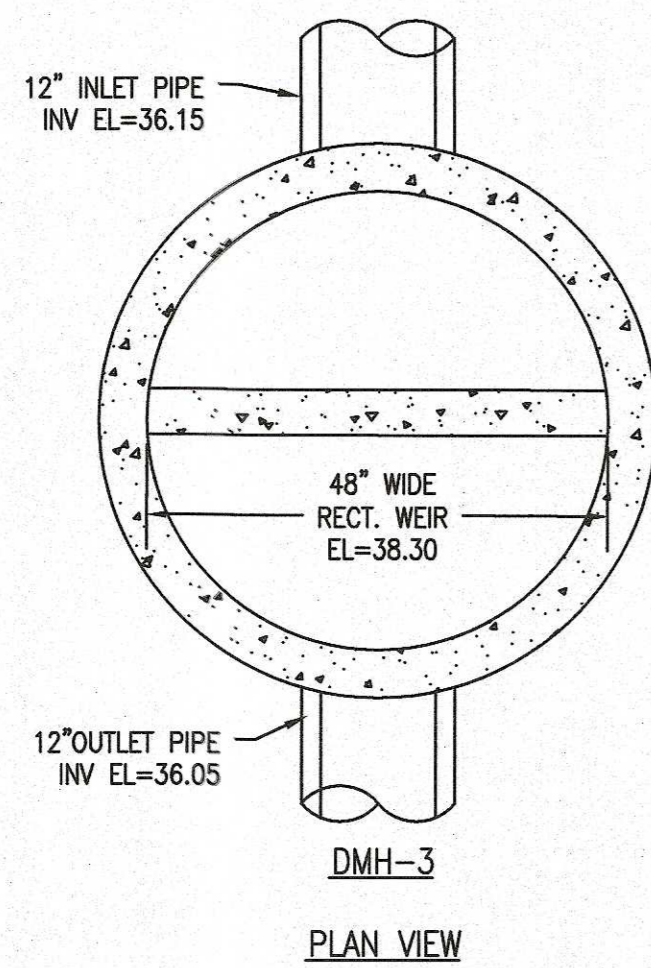
CULTEC RECHARGER 150XLHD HEAVY DUTY PLAN VIEW
 NOT TO SCALE



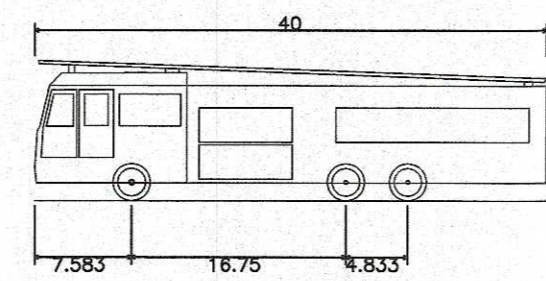
STONE APRON AT PIPE END
 NOT TO SCALE



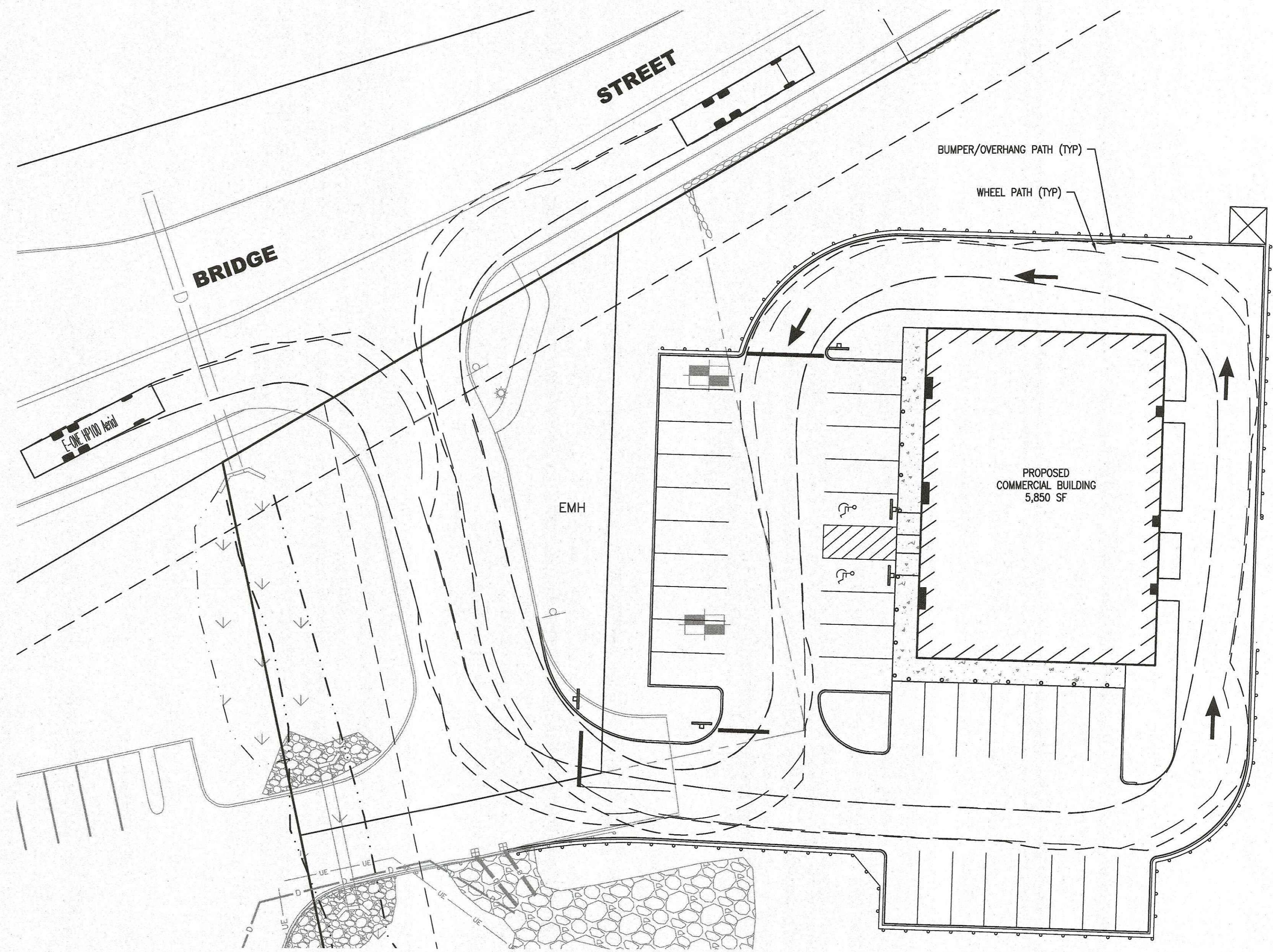
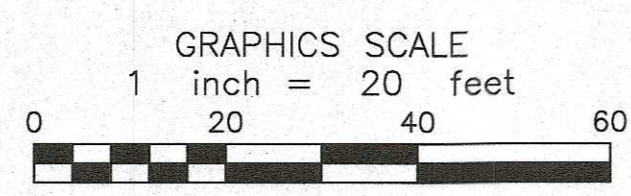
DETAIL OF ROOF OVERFLOW SYSTEM
 NOT TO SCALE



OUTLET CONTROL STRUCTURE MANHOLE (DMH-3)
 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



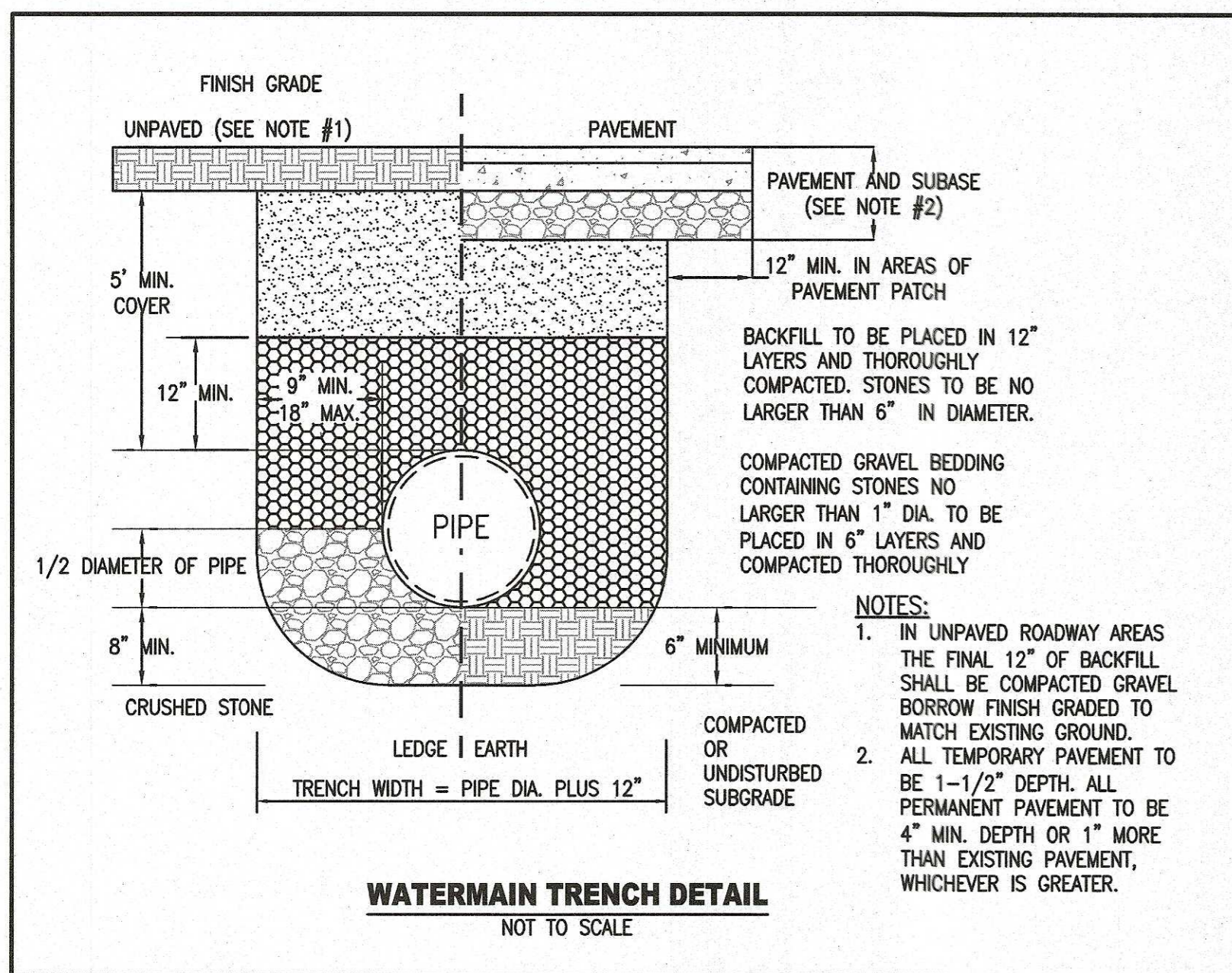
FIRE TRUCK TURNING MOVEMENTS
 E-ONE HP100 AERIAL
 SCALE: 1"=20'

REV.	DATE	DESCRIPTION	BY	APP.
1.	7/24/2023	3-14-24 PER REVIEW COMMENTS	JLB	
2.	4-9-24	4-9-24 PER REVIEW COMMENTS	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

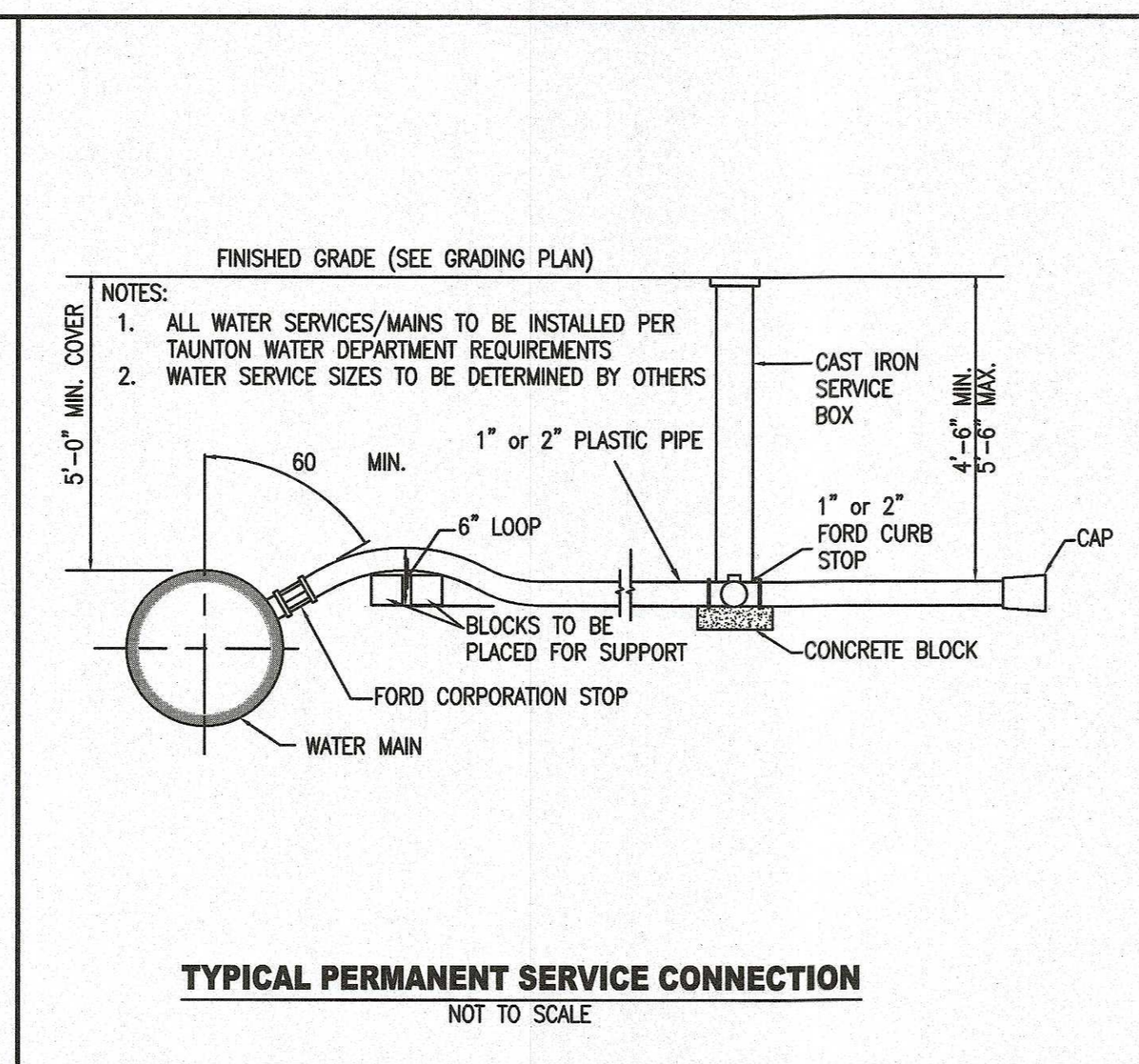


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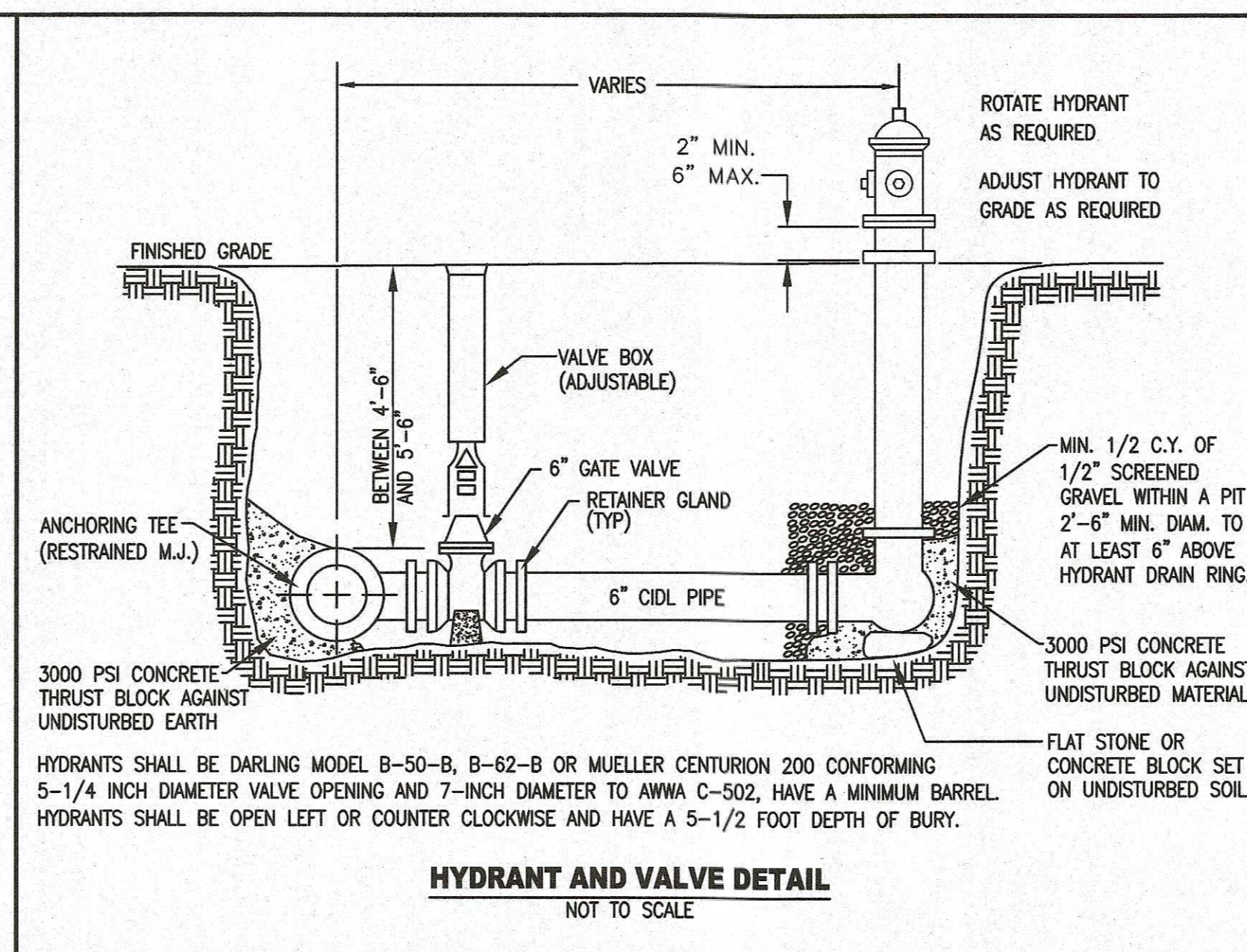
WATERMAIN TRENCH DETAIL

NOT TO SCALE



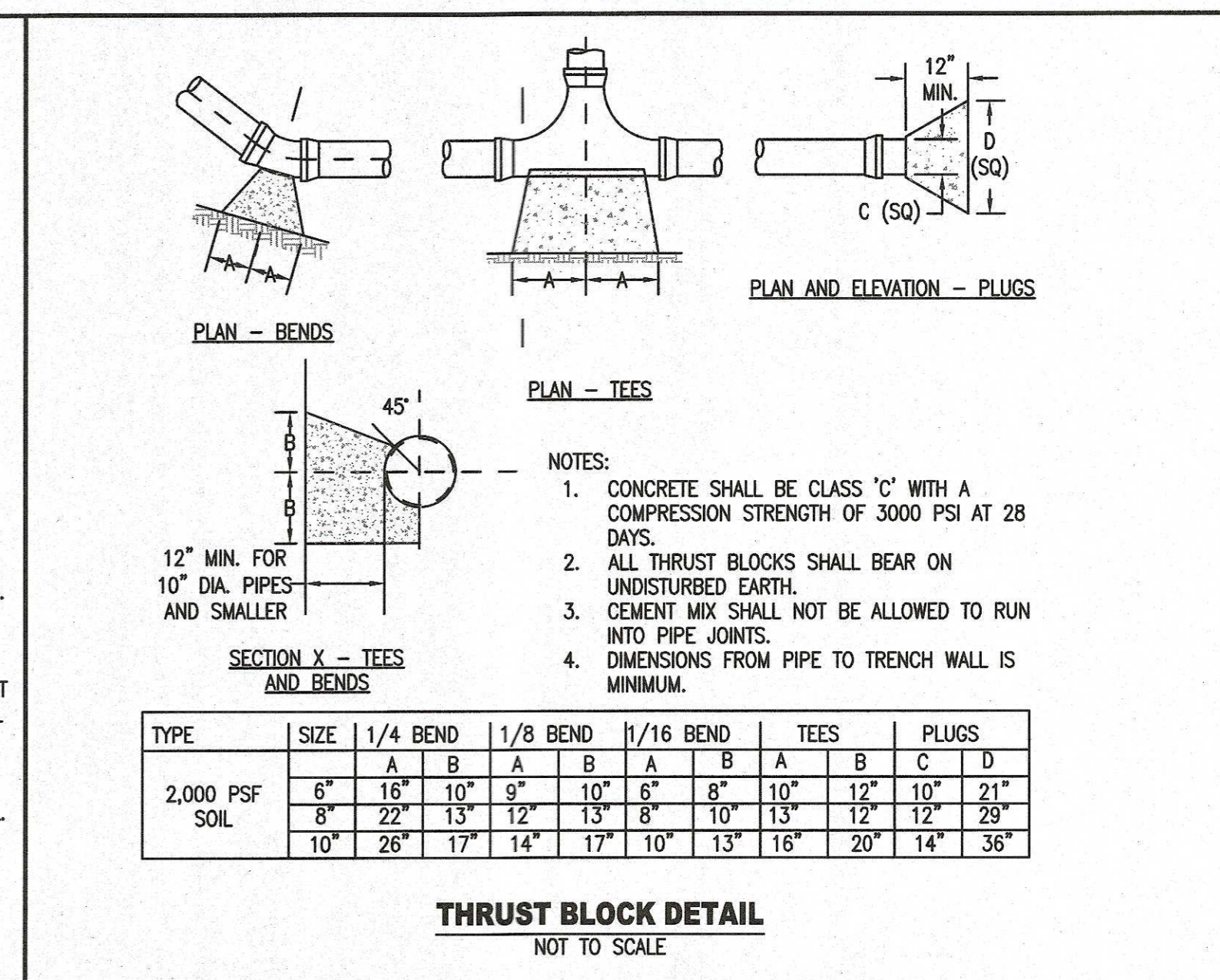
TYPICAL PERMANENT SERVICE CONNECTION

NOT TO SCALE



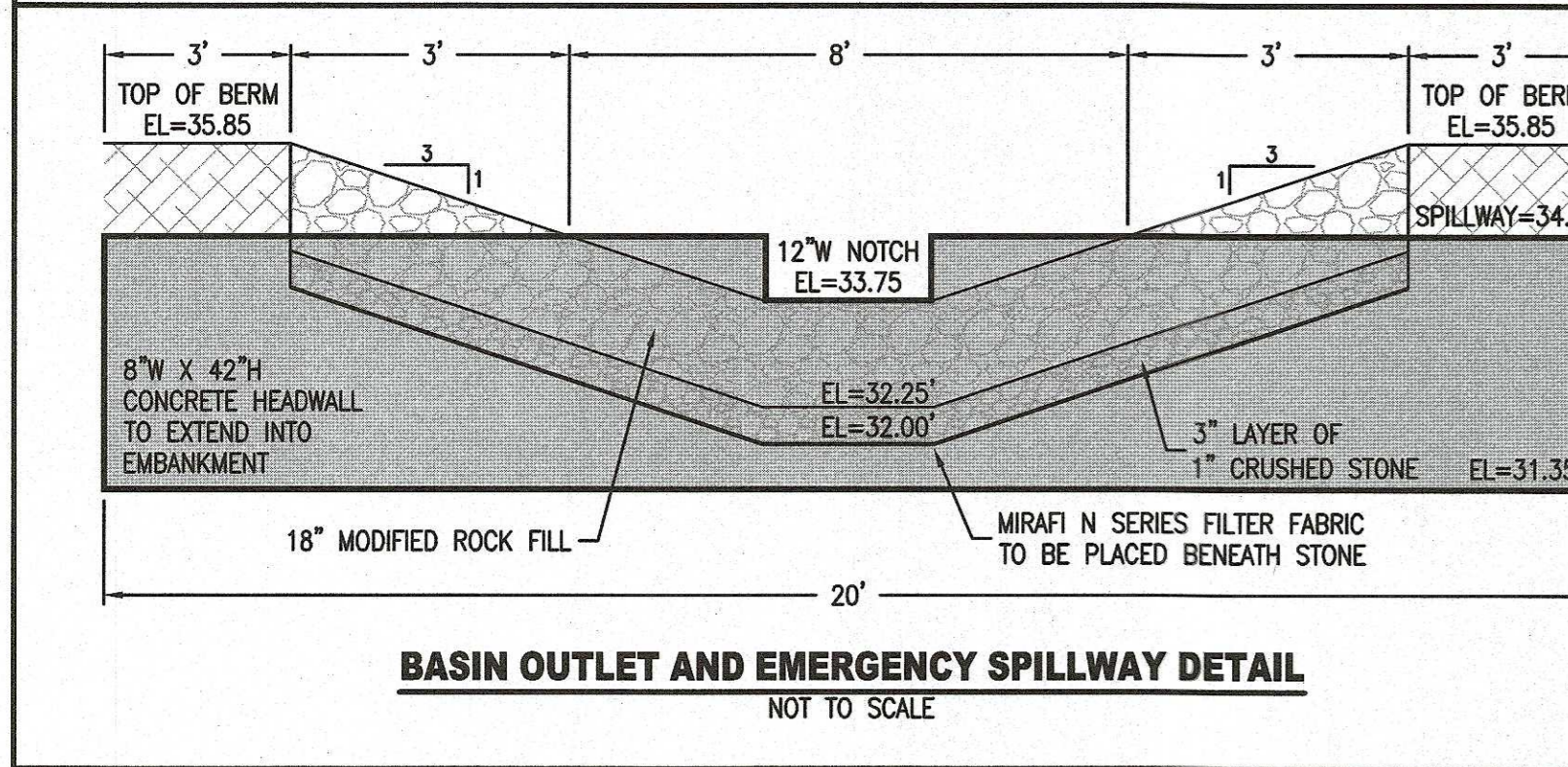
HYDRANT AND VALVE DETAIL

NOT TO SCALE



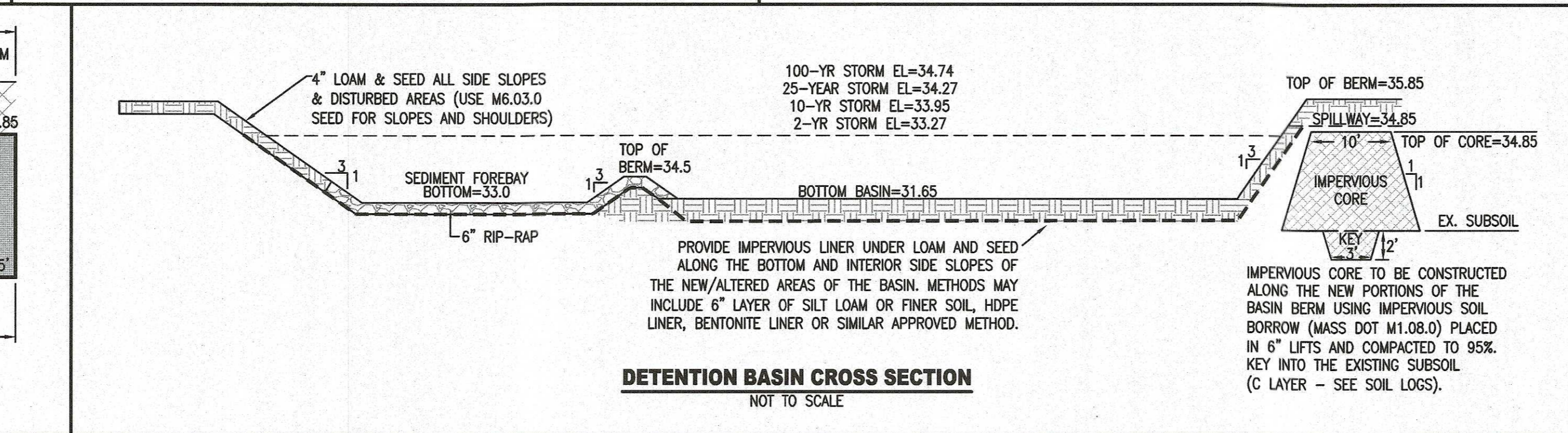
THRUST BLOCK DETAIL

NOT TO SCALE



BASIN OUTLET AND EMERGENCY SPILLWAY DETAIL

NOT TO SCALE

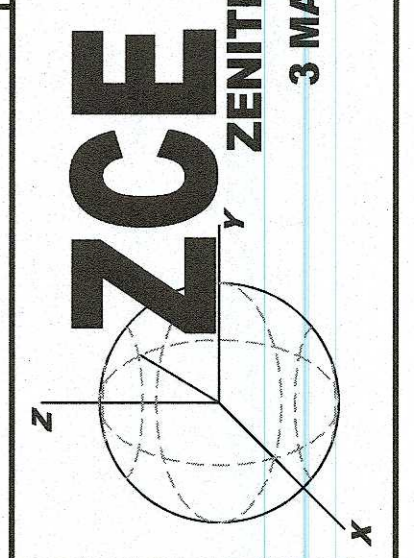


DETENTION BASIN CROSS SECTION

NOT TO SCALE



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REV.	DATE	DESCRIPTION	BY		APP.	
			REV.	DATE	REV.	DATE
1.	7/24/2023	PER REVIEW COMMENTS	TEM	JLB		
2.	3-14-24	PER REVIEW COMMENTS	TEM	JLB		
	4-9-24	PER REVIEW COMMENTS				

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