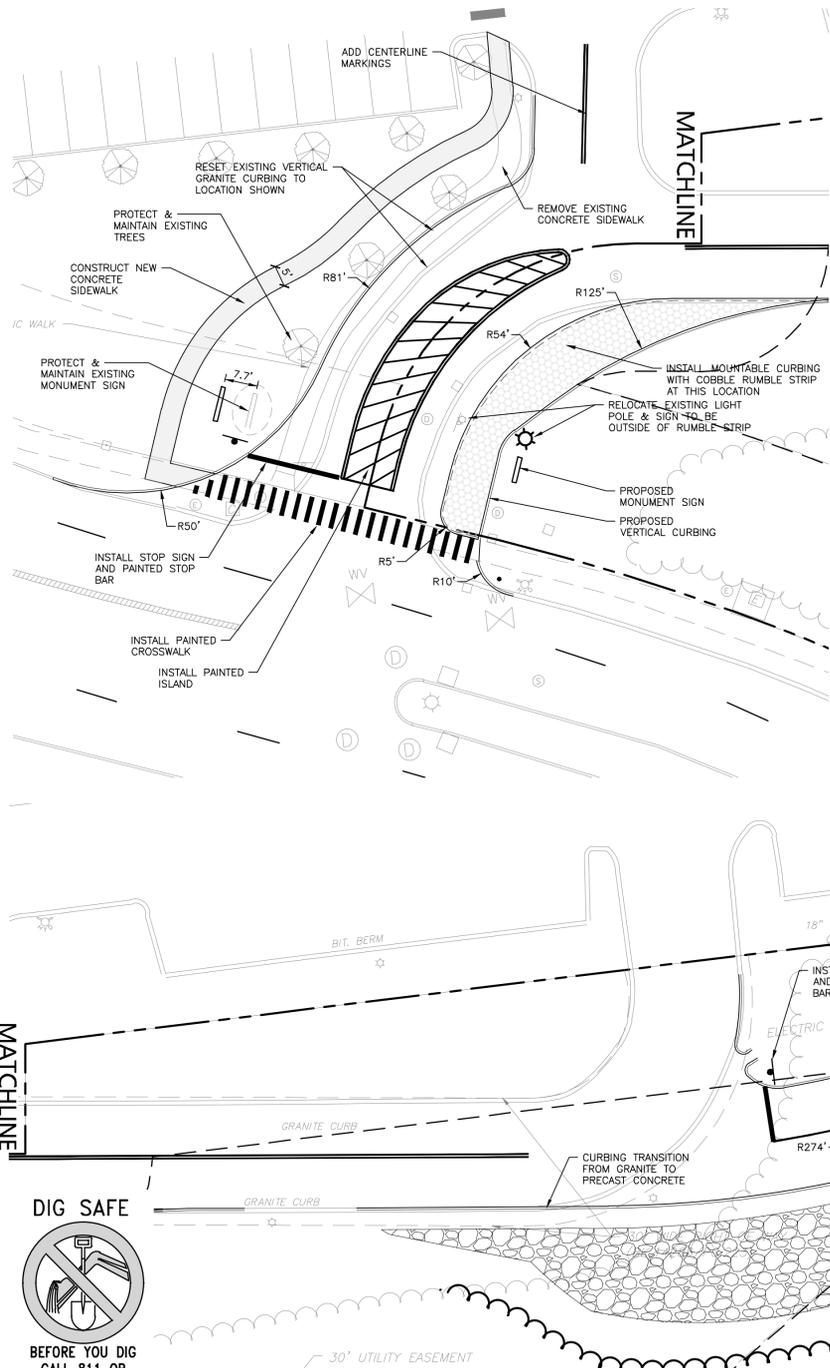


NOTES:

1. ALL CURB RADI SHALL BE 3' UNLESS OTHERWISE NOTED.
2. PARKING DIMENSIONS ARE TAKEN FROM THE FACE OF CURB UNLESS OTHERWISE NOTED.
3. CONSTRUCTION DURING WET WEATHER OR WINTER CONDITIONS IS TO BE ANTICIPATED AND PROVISIONS TO ADEQUATELY ADDRESS THESE CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS INCLUDING THE TOWN OF FRANKLIN, MADOT, MADEP, MUTCD, AND AASHTO.
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6. EXISTING CONDITIONS WERE COMPILED FROM AN ON THE GROUND SURVEY PERFORMED BY ALLEN & MAJOR ASSOCIATES, INC. AS WELL AS AVAILABLE RECORD PLANS OBTAINED FROM THE TOWN OF FRANKLIN, MA AND OTHER SOURCES.
7. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK. THE CONTRACTOR SHALL ALSO CONTACT THE TOWN OF FRANKLIN, MA DEPARTMENT OF PUBLIC WORKS AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF LOCAL UTILITIES.
8. THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.



LEGEND	
PROPERTY LINE	---
SIGN	—
BOLLARD	•
BUILDING	▭
BUILDING ARCHITECTURE	▭ (with texture)
CURB	— (with texture)
RETAINING WALL	— (with texture)
PARKING STRIPING	— (with hatching)
HEAVY DUTY CONCRETE SIDEWALK	— (with hatching)
ADA ACCESSIBLE RAMP	— (with hatching)
RIPRAP	— (with texture)
SNOW STORAGE	— (with texture)
SETBACK LINE	— (with hatching)
PARKING COUNT	⑩
STEEL GUARDRAIL	— (with hatching)
CHAIN LINK FENCE	— (with hatching)
TREE LINE	— (with hatching)
TRANSFORMER	⊠
PRECAST CONCRETE CURB	PCC



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
6	08-15-24	MISC. UPDATES PER TOWN COMMENTS
5	06-20-24	MISC. UPDATES PER TOWN COMMENTS
4	05-21-24	MISC. UPDATES PER TOWN COMMENTS
3	04-18-24	MISC. UPDATES PER TOWN COMMENTS
2	04-01-24	MISC. UPDATES PER TOWN COMMENTS
1	02-27-24	MISC. UPDATES PER TOWN COMMENTS

APPLICANT/OWNER:
 DONEGAL, LLC
 PO BOX 4430
 MANCHESTER, NH 03108

PROJECT:
PROPOSED INDUSTRIAL BUILDING
 6 FORGE PARKWAY
 FRANKLIN, MA
 PARCEL ID: 272-005-000-000

PROJECT NO. 1362-25 DATE: 02-05-24

SCALE: 1" = 20' DWG.: C1362-25_Layout & Materials

DESIGNED BY: SM CHECKED BY: MAM

PREPARED BY:

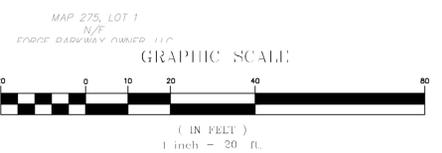
ALLEN & MAJOR ASSOCIATES, INC.
 civil engineering • land surveying
 environmental consulting • landscape architecture
 www.allenmajor.com
 100 COMMERCE WAY, SUITE 5
 WOBURN MA 01801
 TEL: (781) 935-6889
 FAX: (781) 935-2896

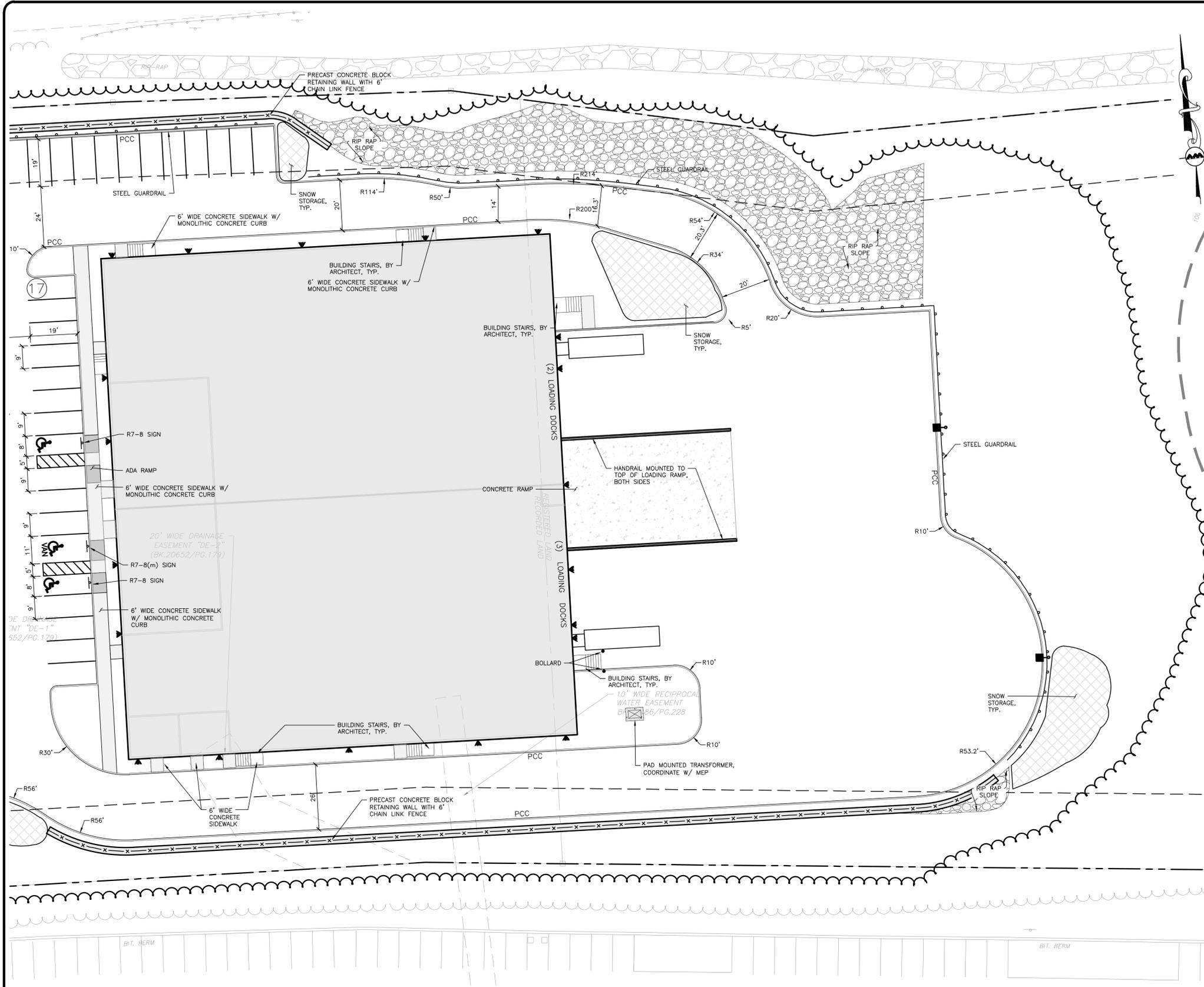
WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

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DRAWING TITLE: LAYOUT & MATERIALS PLAN SHEET No. C-102A

R:\PROJECTS\1362-25\CIVIL DRAWINGS\CURRENT\0-1362-25_LAYOUT & MATERIALS.DWG





LEGEND

PROPERTY LINE	---
SIGN	-
BOLLARD	•
BUILDING	[Hatched Box]
BUILDING ARCHITECTURE	[Hatched Box]
CURB	=====
RETAINING WALL	=====
PARKING STRIPING	[Hatched Box]
HEAVY DUTY CONCRETE	[Hatched Box]
SIDEWALK	[Hatched Box]
ADA ACCESSIBLE RAMP	[Hatched Box]
RIPRAP	[Hatched Box]
SNOW STORAGE	[Hatched Box]
SETBACK LINE	---
PARKING COUNT	(10)
STEEL GUARDRAIL	-----
CHAIN LINK FENCE	x-x-x-x
TREE LINE	~~~~~
TRANSFORMER	T
PRECAST CONCRETE CURB	PCC

- ### NOTES:
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PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

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PROPOSED INDUSTRIAL BUILDING
 6 FORGE PARKWAY
 FRANKLIN, MA
 PARCEL ID: 272-005-000-000

PROJECT NO. 1362-25 DATE: 02-05-24
 SCALE: 1" = 20' DWG.: C1362-25_Layout & Materials
 DESIGNED BY: SM CHECKED BY: MAM

PREPARED BY:

ALLEN & MAJOR ASSOCIATES, INC.
 civil engineering • land surveying
 environmental consulting • landscape architecture
 www.allenmajor.com
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 WOBURN MA 01801
 TEL: (781) 935-6889
 FAX: (781) 935-2896

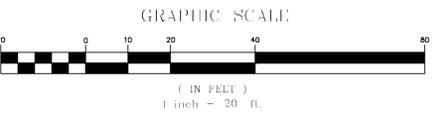
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DRAWING TITLE: **LAYOUT & MATERIALS PLAN** SHEET No. **C-102B**
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 1-888-344-7233

MAP 275, LOT 1
 N/A
 FORGE PARKWAY OWNER, LLC
 BK 35879/PG.262



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GRADING & DRAINAGE NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS INCLUDING THE TOWN OF FRANKLIN, MDT, MAEP, MUTCO, AND AASHTO.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY ALLEN & MAJOR ASSOCIATES DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK OR THE OWNER'S EMPLOYEES, CUSTOMERS, OR THE GENERAL PUBLIC. THE SEAL OF THE ENGINEER AS INCLUDED IN THE PLAN SET DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PROVIDE THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE BY THE US OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
- ALL ELEVATIONS REFER TO NAVD 88.
- PIPE DIMENSIONS ARE MEASURED FROM THE INSIDE FACE OF THE STRUCTURE.
- THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ITS INTENDED USE IS TO PROVIDE INFORMATION. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.
- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
- ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED. AT NO TIME SHALL CUT OF FILL SLOPES EXCEED 2:1.
- EXISTING AND PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 2 FOOT
- ROOF DRAINS SHALL CONNECT TO NEAREST DRAIN STRUCTURE. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE RING & COVERS. H=20 MINIMUM. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "DRAIN".
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH COUNTY SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- ALL CATCH BASINS ON-SITE SHALL BE EQUIPPED WITH HOODS AND 4 FOOT SUMPS AND SHALL CONFORM TO LOCAL DRAINAGE REQUIREMENTS.
- ALL DRAINAGE SHALL CONFORM TO LOCAL AND MAEP REQUIREMENTS.
- PRIOR TO CONSTRUCTION OF IMPERVIOUS AREAS, ALL DRAINAGE STRUCTURES, PIPES AND BASINS SHALL BE INSTALLED AND INSPECTED FOR PROPER FUNCTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE START OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DRAWINGS, SPECIFICATIONS, OR RELATIVE CODES, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND/OR ARCHITECT PRIOR TO START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE ENGINEER AND/OR ARCHITECT SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AND/OR DESIGN INTENT OF THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
- THE DESIGN ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF THE DESIGN ENGINEER WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE DISCOVERED OR ALLEGED.
- THE PROJECT RESULTS IN A NET IMPORT OF APPROXIMATELY 1,200 CUBIC YARDS OF MATERIAL. THIS VALUE DOES NOT INCLUDE EXCAVATION REQUIRED FOR BUILDING FOUNDATION, UTILITIES, OR STORMWATER INFRASTRUCTURE.
- PRIOR TO CONSTRUCTION, ONE ADDITIONAL TEST PIT SHALL BE PERFORMED WITHIN THE FOOTPRINT OF THE PROPOSED BIORETENTION SYSTEM TO CONFIRM SEPARATION TO ESTIMATED SEASONAL HIGH GROUND WATER. THE TEST PIT SHALL BE OBSERVED BY THE ENGINEER OF RECORD.
- GRADING MAY BE REQUIRED ON THE ADJUTING PARCELS WHICH MAY REQUIRE A TEMPORARY CONSTRUCTION EASEMENT.

GEO-TP-1
EXISTING GROUND ELEVATION: 276.7
PERFORMED BY: HKC, GEOENGINEERS
DATE: 11-15-2023

DEPTH	CLASS	NOTES
0-1'	TS	DARK BROWN SILTY FINE TO MEDIUM SAND WITH TRACE GRAVEL AND ROOTS (MOIST) (TOPSOIL)
1-2'	SP-SM	BROWN FINE TO MEDIUM SAND WITH SILT, GRAVEL, ROOTS (MOIST)
2-9.5'	SM	BROWN SILTY FINE TO MEDIUM SAND WITH GRAVEL AND COBBLES (MOIST) (GLACIAL TILL) WITH ORANGE REDOX FEATURES @ 5'

ESHW: 5.0' BELOW GRADE (ELEVATION 271.7)
WEEP: NONE
BEDROCK/REFUSAL: 9.5' BELOW GRADE, PROBABLE BOULDER

GEO-TP-5
EXISTING GROUND ELEVATION: 272.0
PERFORMED BY: HKC, GEOENGINEERS
DATE: 11-16-2023

DEPTH	CLASS	NOTES
0-1'	TS	DARK BROWN SILTY FINE TO MEDIUM SAND WITH TRACE GRAVEL AND ROOTS (MOIST) (TOPSOIL)
1-2'	SP-SM	ORANGE BROWN FINE TO MEDIUM SAND WITH SILT, GRAVEL AND ROOTS (MOIST) (FILL)
2-2.5'	TS	DARK BROWN SILTY FINE TO MEDIUM SAND WITH TRACE GRAVEL AND ROOTS (MOIST) (TOPSOIL)
2.5-4'	SP-SM	ORANGE BROWN FINE TO MEDIUM SAND WITH SILT, GRAVEL AND ROOTS (MOIST)
4-14'	SM	TAN SILTY FINE TO MEDIUM SAND WITH GRAVEL (MOIST) (GLACIAL TILL) WITH ORANGE REDOX FEATURES @ 9'

ESHW: 9' BELOW GRADE (ELEVATION 263.0)
WEEP: NONE
BEDROCK/REFUSAL: NONE, TERMINATED AT 14' BELOW GRADE

GEO-TP-2
EXISTING GROUND ELEVATION: 272.0
PERFORMED BY: HKC, GEOENGINEERS
DATE: 11-15-2023

DEPTH	CLASS	NOTES
0-1.5'	TS	DARK BROWN SILTY FINE TO MEDIUM SAND WITH TRACE GRAVEL AND ROOTS (MOIST) (TOPSOIL)
1.5-4'	SM	BROWN SILTY FINE TO MEDIUM SAND WITH GRAVEL AND ROOTS (FILL)
4-4.5'	TS	DARK BROWN SILTY FINE TO MEDIUM SAND WITH TRACE GRAVEL AND ROOTS (MOIST) (TOPSOIL)
4.5-5'	SP-SM	BROWN FINE TO MEDIUM SAND WITH SILT, GRAVEL, AND ROOTS (MOIST)
5-17'	SM	BROWN SILTY FINE TO MEDIUM SAND WITH GRAVEL AND COBBLES (MOIST) (GLACIAL TILL)

ESHW: NOT ENCOUNTERED
WEEP: NONE
BEDROCK/REFUSAL: NONE, TERMINATED AT 17' BELOW GRADE

GEO-TP-6
EXISTING GROUND ELEVATION: 280.4
PERFORMED BY: HKC, GEOENGINEERS
DATE: 11-16-2023

DEPTH	CLASS	NOTES
0-0.75'	TS	DARK BROWN SILTY FINE TO MEDIUM SAND WITH TRACE GRAVEL AND ROOTS (MOIST) (TOPSOIL)
0.75-2.75'	SP-SM	ORANGE BROWN FINE TO MEDIUM SAND WITH SILT, GRAVEL AND ROOTS (MOIST) (FILL)
2.75-3.5'	TS	DARK BROWN SILTY FINE TO MEDIUM SAND WITH TRACE GRAVEL AND ROOTS (MOIST) (TOPSOIL)
3.5-6'	SP-SM	ORANGE BROWN FINE TO MEDIUM SAND WITH SILT, GRAVEL AND ROOTS (MOIST)
6-14'	SM	TAN SILTY FINE TO MEDIUM SAND WITH GRAVEL AND ORANGE REDOX FEATURES @ 6' (MOIST) (GLACIAL TILL)

ESHW: 6' BELOW GRADE (ELEVATION 274.4)
WEEP: 9' BELOW GRADE
BEDROCK/REFUSAL: NONE, TERMINATED AT 14' BELOW GRADE

GEO-TP-3
EXISTING GROUND ELEVATION: 257.7
PERFORMED BY: HKC, GEOENGINEERS
DATE: 11-16-2023

DEPTH	CLASS	NOTES
0-0.75'	TS	DARK BROWN SILTY FINE TO MEDIUM SAND WITH TRACE GRAVEL AND ROOTS (MOIST) (TOPSOIL)
0.75-3'	SM	TAN SILTY FINE TO MEDIUM SAND WITH GRAVEL AND ROOTS (FILL)
3-3.5'	TS	DARK BROWN SILTY FINE TO MEDIUM SAND WITH TRACE GRAVEL AND ROOTS (MOIST) (TOPSOIL)
3.5-4.5'	SP-SM	BROWN FINE TO MEDIUM SAND WITH SILT, GRAVEL AND ROOTS (MOIST)
4.5-6'	SM	TAN SILTY FINE TO MEDIUM SAND WITH GRAVEL (MOIST) (GLACIAL TILL)

ESHW: NOT ENCOUNTERED
WEEP: NONE
BEDROCK/REFUSAL: 6' PROBABLE BOULDER

GEO-TP-7
EXISTING GROUND ELEVATION: 281.0
PERFORMED BY: HKC, GEOENGINEERS
DATE: 11-16-2023

DEPTH	CLASS	NOTES
0-0.75'	TS	DARK BROWN SILTY FINE TO MEDIUM SAND WITH TRACE GRAVEL AND ROOTS (MOIST) (TOPSOIL)
0.75-14'	SM	TAN SILTY FINE TO MEDIUM SAND WITH GRAVEL (MOIST) (GLACIAL TILL)

ESHW: NOT ENCOUNTERED
WEEP: NONE
BEDROCK/REFUSAL: NONE, TERMINATED AT 14' BELOW GRADE

GEO-TP-4
EXISTING GROUND ELEVATION: 278.5
PERFORMED BY: HKC, GEOENGINEERS
DATE: 11-16-2023

DEPTH	CLASS	NOTES
0-0.75'	TS	DARK BROWN SILTY FINE TO MEDIUM SAND WITH TRACE GRAVEL AND ROOTS (MOIST) (TOPSOIL)
0.75-1.25'	SP-SM	BROWN FINE TO MEDIUM SAND WITH SILT, GRAVEL AND ROOTS (MOIST)
1.25-15'	SM	TAN SILTY FINE TO MEDIUM SAND WITH GRAVEL (MOIST) (GLACIAL TILL)

ESHW: NOT ENCOUNTERED
WEEP: NONE
BEDROCK/REFUSAL: NONE, TERMINATED AT 15' BELOW GRADE

GEO-TP-8
EXISTING GROUND ELEVATION: 279.7
PERFORMED BY: HKC, GEOENGINEERS
DATE: 11-16-2023

DEPTH	CLASS	NOTES
0-0.75'	TS	DARK BROWN SILTY FINE TO MEDIUM SAND WITH TRACE GRAVEL AND ROOTS (MOIST) (TOPSOIL)
0.75-3'	SP-SM	BROWN FINE TO MEDIUM SAND WITH SILT, GRAVEL AND ROOTS (MOIST) (FILL)
3-5'	SM	TAN SILTY FINE TO MEDIUM SAND WITH GRAVEL (FILL)
5-5.25'	SM	DARK BROWN SILTY FINE TO MEDIUM SAND WITH TRACE GRAVEL AND ROOTS (MOIST) (BURIED TOPSOIL)
5.25-5.75'	SP-SM	BROWN FINE TO MEDIUM SAND WITH SILT, GRAVEL AND ROOTS (MOIST)
5.75-13'	SM	TAN SILTY FINE TO MEDIUM SAND WITH GRAVEL (MOIST) (GLACIAL TILL)

ESHW: 13' BELOW GRADE (ELEVATION 266.7, WEEP)
WEEP: 13' BELOW GRADE
BEDROCK/REFUSAL: NONE, TERMINATED AT 13' BELOW GRADE

GEO-TP-101
Ground Surface Elev. (ft.): 280.3 +/-
Date: 5/28/24
Logged by: S. Ring - Massachusetts Licensed Soil Evaluator #: SE14818

Depth (inches)	Soil Horizon or Layer	Soil Matrix Color (Moist)	Soil Texture (NRCS)	Soil Structure	Soil Consistence (Moist)	Other
0 - 6	Ap	10YR3/2	Sandy loam	Massive	Friable	Frequent Roots
6 - 12	Bw	10YR5/6	Sandy loam	Massive	Friable	Frequent Roots
12 - 120	C	2.5Y6/2	Loamy sand	Massive	Friable	

Test Pit Termination Depth (in.): 120 Reason for Termination: Caving
Depth to water weeping from pit face (in.): 108
Depth to standing water in hole (in.): 108 Stabilization Time: 15 Minutes
ESHW: 108" (ELEVATION 271.3)

GEO-TP-102
Ground Surface Elev. (ft.): 275.64 +/-
Date: 5/28/24
Logged by: S. Ring - Massachusetts Licensed Soil Evaluator #: SE14818

Depth (inches)	Soil Horizon or Layer	Soil Matrix Color (Moist)	Soil Texture (NRCS)	Soil Structure	Soil Consistence (Moist)	Other
0 - 20	Ap	10YR3/3	Sandy loam	Massive	Friable	Frequent Roots
20 - 36	Bw	10YR4/6	Sandy loam	Massive	Friable	Frequent Roots
36 - 132	C	2.5Y6/3	Loamy sand	Massive	Friable	

Test Pit Termination Depth (in.): 132 Reason for Termination: Excavator Reach
Depth to water weeping from pit face (in.): 132
Depth to standing water in hole (in.): 132 Stabilization Time: 15 Minutes
ESHW: 132" (ELEVATION 264.64, WEEP)

GEO-TP-103
Ground Surface Elev. (ft.): 269.54 +/-
Date: 5/28/24
Logged by: S. Ring - Massachusetts Licensed Soil Evaluator #: SE14818

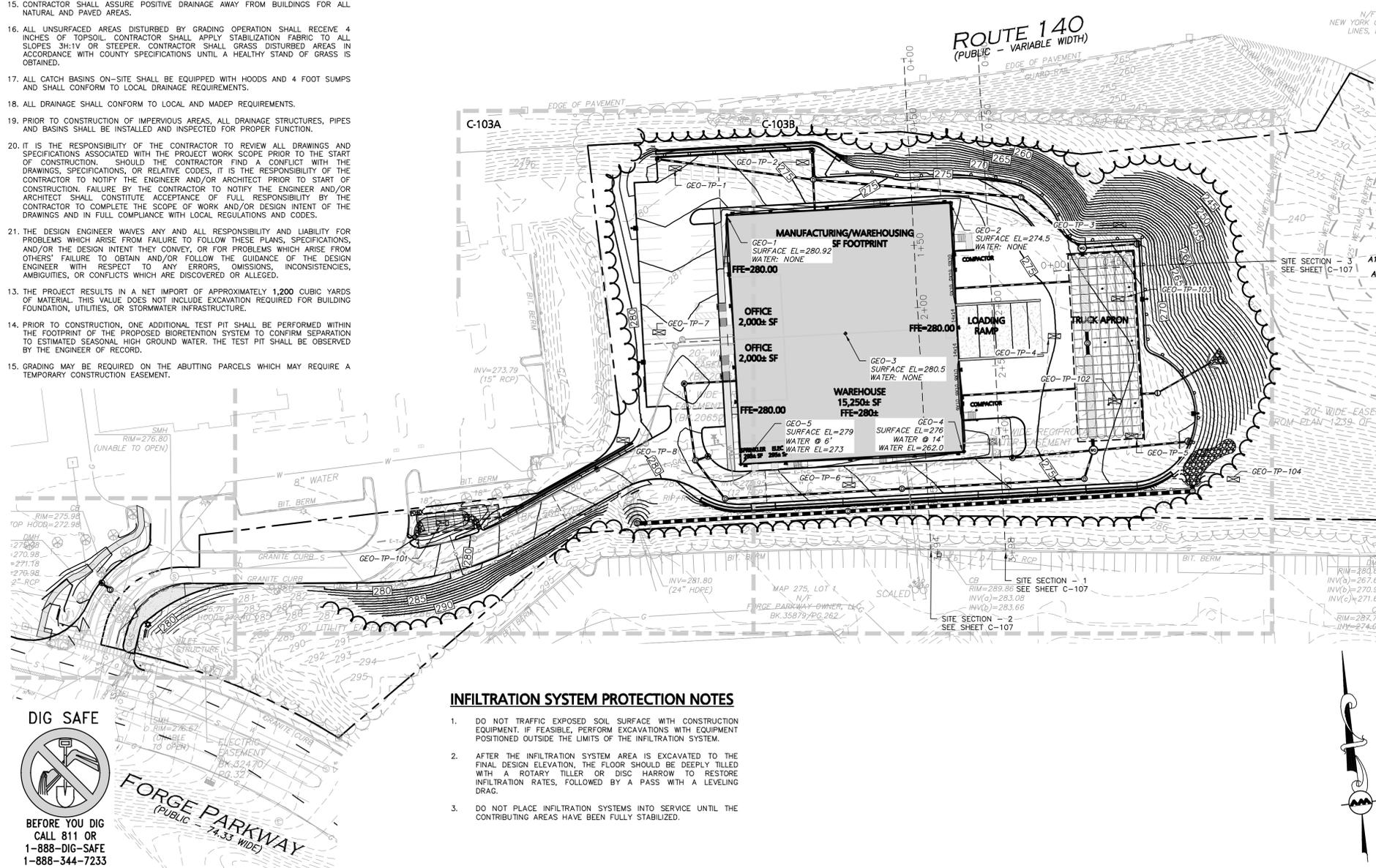
Depth (inches)	Soil Horizon or Layer	Soil Matrix Color (Moist)	Soil Texture (NRCS)	Soil Structure	Soil Consistence (Moist)	Other
0 - 6	Ap	10YR3/2	Sandy loam	Massive	Friable	Frequent Roots
6 - 16	Bw	10YR4/6	Sandy loam	Massive	Friable	Frequent Roots
16 - 32	Cd	10YR4/4	Sandy loam	Massive	Firm	Some Roots
32 - 150	Cd2	2.5Y6/3	Loamy sand	Massive	Firm	

Test Pit Termination Depth (in.): 150 Reason for Termination: Excavator Reach
Depth to water weeping from pit face (in.): NA
Depth to standing water in hole (in.): NA Stabilization Time: 15 Minutes
Depth to estimated seasonal high: 126" (ELEVATION 259.04, REDOX)

GEO-TP-104
Ground Surface Elev. (ft.): 277 +/-
Date: 5/28/24
Logged by: S. Ring - Massachusetts Licensed Soil Evaluator #: SE14818

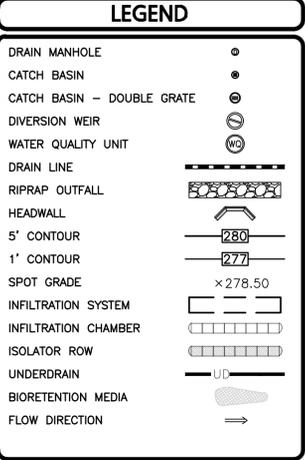
Depth (inches)	Soil Horizon or Layer	Soil Matrix Color (Moist)	Soil Texture (NRCS)	Soil Structure	Soil Consistence (Moist)	Other
0 - 8	Ap	10YR3/2	Sandy loam	Massive	Friable	Frequent Roots
8 - 16	Fill	2.5Y6/3	Loamy sand	Massive	Friable	Frequent Roots
16 - 18	Fill	10YR4/4	Sandy loam	Massive	Friable	Frequent Roots
18 - 138	Ab	10YR2/2	Sandy loam	Massive	Friable	See Notes

Test Pit Termination Depth (in.): 138 Reason for Termination: Refusal on buried stumps
Depth to water weeping from pit face (in.): NA
Depth to standing water in hole (in.): NA Stabilization Time: 15 Minutes
Depth to estimated seasonal high: 138" (ELEVATION 265.5, TERMINATION)



INFILTRATION SYSTEM PROTECTION NOTES

- DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.
- AFTER THE INFILTRATION SYSTEM AREA IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
- DO NOT PLACE INFILTRATION SYSTEMS INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

MICHAEL MALYNOWSKI
CIVIL ENGINEER
No. 47268
REG. IN NH
08-15-2024

REV	DATE	DESCRIPTION
07-30-24		MISC. UPDATES PER TOWN COMMENTS
07-22-24		MISC. UPDATES PER TOWN COMMENTS

APPLICANT/OWNER:
DONEGAL, LLC
PO BOX 4430
MANCHESTER, NH 03108

PROJECT:
PROPOSED INDUSTRIAL BUILDING
6 FORGE PARKWAY
FRANKLIN, MA
PARCEL ID: 272-005-000-000

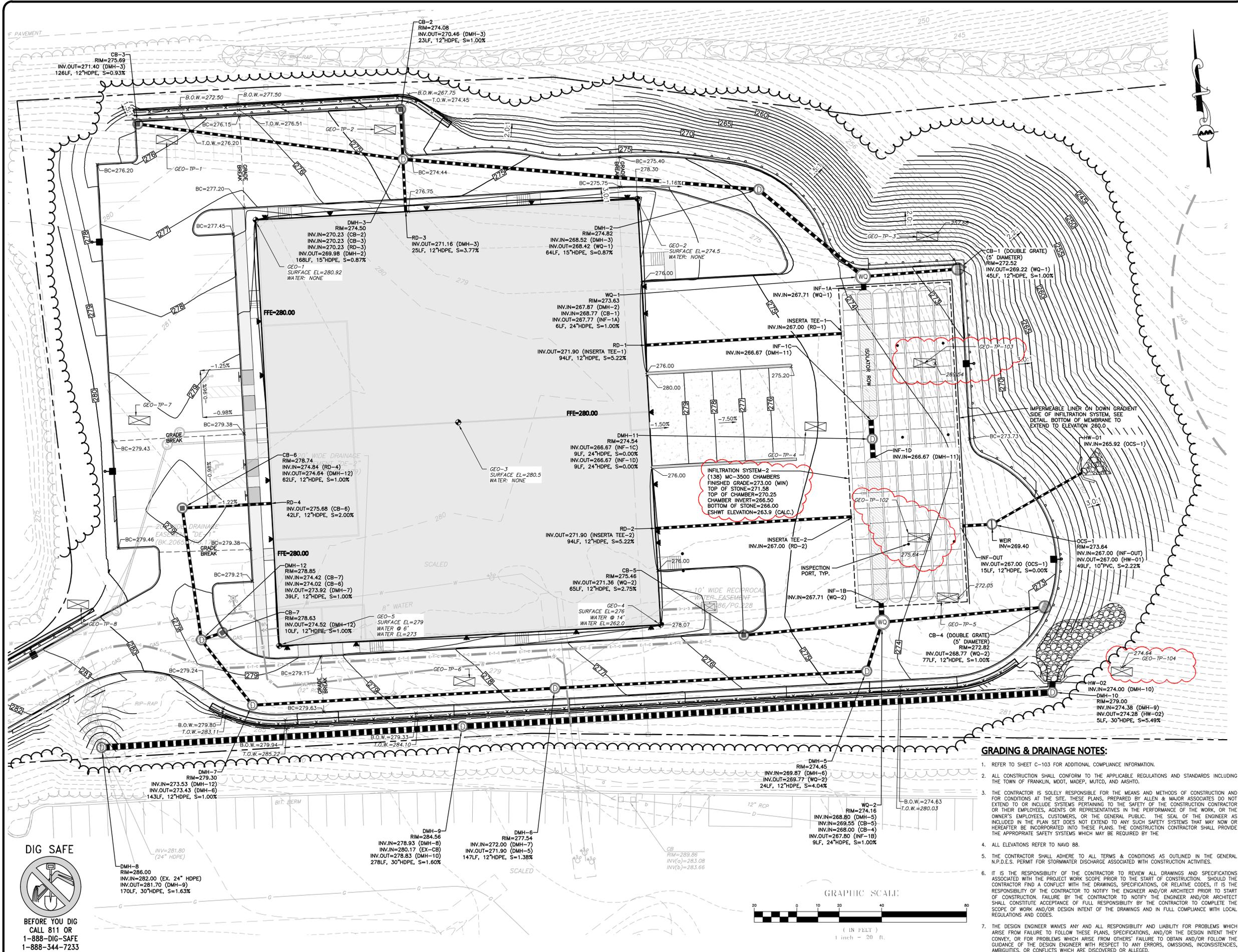
PROJECT NO. 1362-25 DATE: 02-05-24
SCALE: 1" = 50' DWG.: C1362-25, Grading & Drainage
DESIGNED BY: SM CHECKED BY: MAM

PREPARED BY:
ALLEN & MAJOR ASSOCIATES, INC.
civil engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com
100 COMMERCE WAY, SUITE 5
WOBRURN MA 01801
TEL: (781) 935-6889
FAX: (781) 935-2896

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A:\PROJECTS\1362-25 CIVIL DRAWINGS\CURRENT\C-1362-25-GRADING & DRAINAGE.DWG



LEGEND	
DRAIN MANHOLE	○
CATCH BASIN	●
CATCH BASIN - DOUBLE GRATE	⊙
DIVERSION WEIR	⊖
WATER QUALITY UNIT	⊕
DRAIN LINE	—
RIPRAP OUTFALL	▨
HEADWALL	▧
5' CONTOUR	250
1' CONTOUR	277
SPOT GRADE	x278.50
INFILTRATION SYSTEM	▭
INFILTRATION CHAMBER	▩
ISOLATOR ROW	▬
UNDERDRAIN	UD
BIORETENTION MEDIA	▨
FLOW DIRECTION	→

MICHAEL A. MALYNOWSKI
 CIVIL ENGINEER
 No. 47268
 REGISTERED PROFESSIONAL ENGINEER
 08-15-2024
 PROFESSIONAL ENGINEER FOR
 ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
9	08-15-24	MISC. UPDATES PER TOWN COMMENTS
8	07-30-24	MISC. UPDATES PER TOWN COMMENTS
7	07-22-24	MISC. UPDATES PER TOWN COMMENTS
6	06-20-24	MISC. UPDATES PER TOWN COMMENTS
5	05-21-24	MISC. UPDATES PER TOWN COMMENTS
4	04-29-24	MISC. UPDATES PER TOWN COMMENTS

APPLICANT/OWNER:
 DONEGAL, LLC
 PO BOX 4430
 MANCHESTER, NH 03108

PROJECT:
PROPOSED INDUSTRIAL BUILDING
 6 FORGE PARKWAY
 FRANKLIN, MA
 PARCEL ID: 272-005-000-000

PROJECT NO. 1362-25 DATE: 02-05-24
 SCALE: 1" = 20' DWG.: C1362-25 Grading & Drainage
 DESIGNED BY: SM CHECKED BY: MAM

PREPARED BY:

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 civil engineering • land surveying
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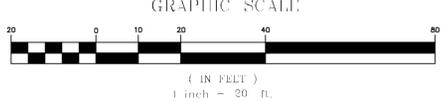
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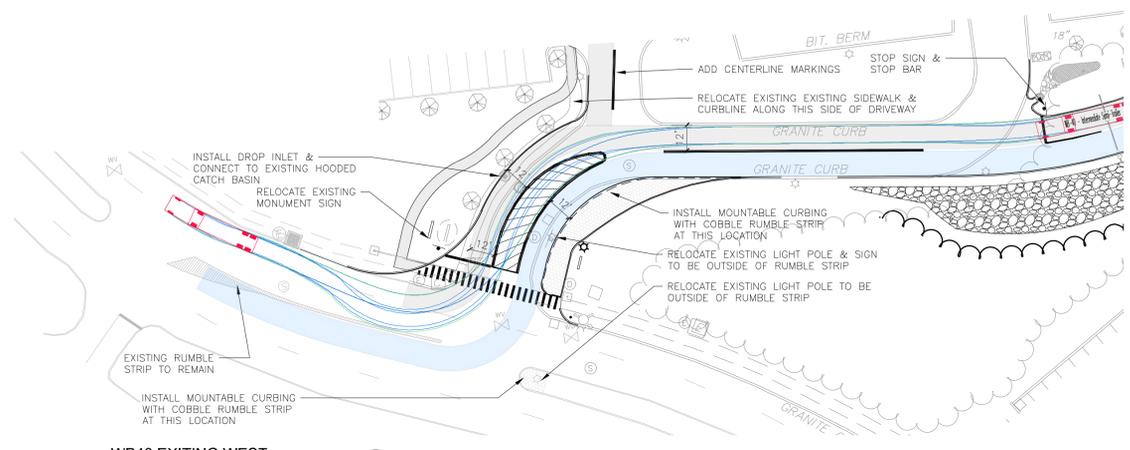
DRAWING TITLE: **GRADING & DRAINAGE PLAN** SHEET NO. **C-103B**
 12 OF 27

DIG SAFE

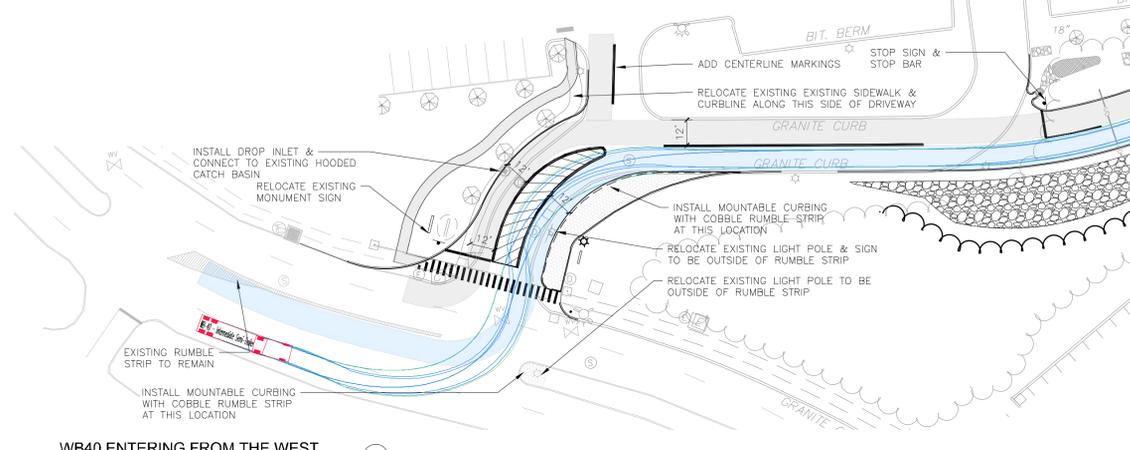
 BEFORE YOU DIG
 CALL 811 OR
 1-888-DIG-SAFE
 1-888-344-7233

- GRADING & DRAINAGE NOTES:**
- REFER TO SHEET C-103 FOR ADDITIONAL COMPLIANCE INFORMATION.
 - ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS INCLUDING THE TOWN OF FRANKLIN, MDOT, MADEP, MUTCD, AND ASHTO.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY ALLEN & MAJOR ASSOCIATES DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK, OR THE OWNER'S EMPLOYEES, CUSTOMERS, OR THE GENERAL PUBLIC. THE SEAL OF THE ENGINEER AS INCLUDED IN THE PLAN SET DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PROVIDE THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE.
 - ALL ELEVATIONS REFER TO NAVD 88.
 - THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE START OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DRAWINGS, SPECIFICATIONS, OR RELATIVE CODES, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER AND/OR ARCHITECT PRIOR TO START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE ENGINEER AND/OR ARCHITECT SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AND/OR DESIGN INTENT OF THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
 - THE DESIGN ENGINEER WAVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND/OR THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW THE GUIDANCE OF THE DESIGN ENGINEER WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE DISCOVERED OR ALLEGED.

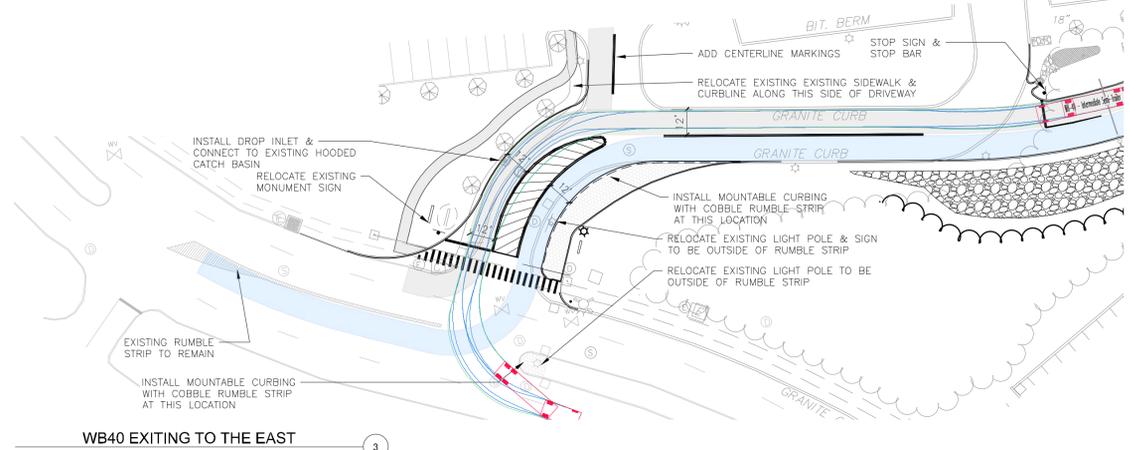




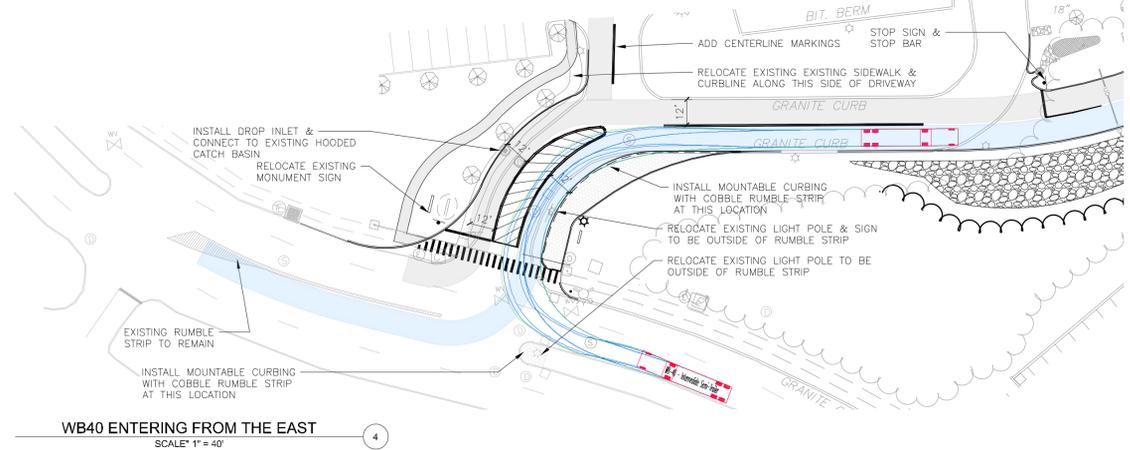
WB40 EXITING WEST
SCALE: 1" = 40'



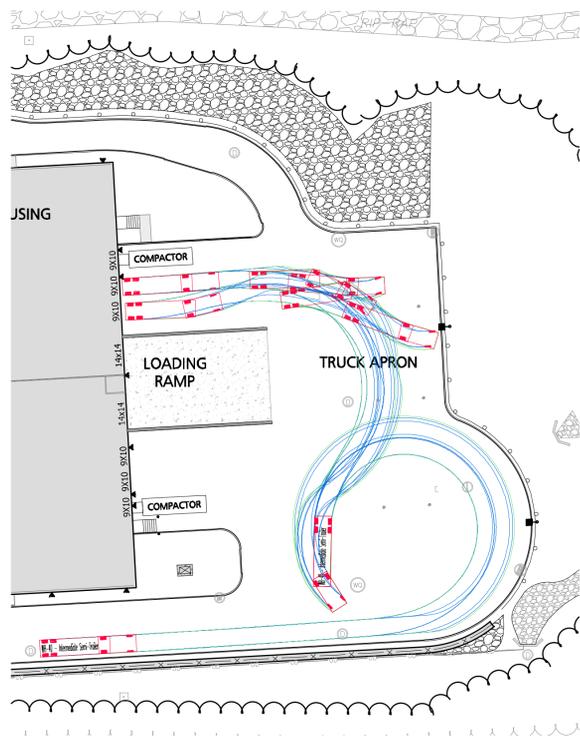
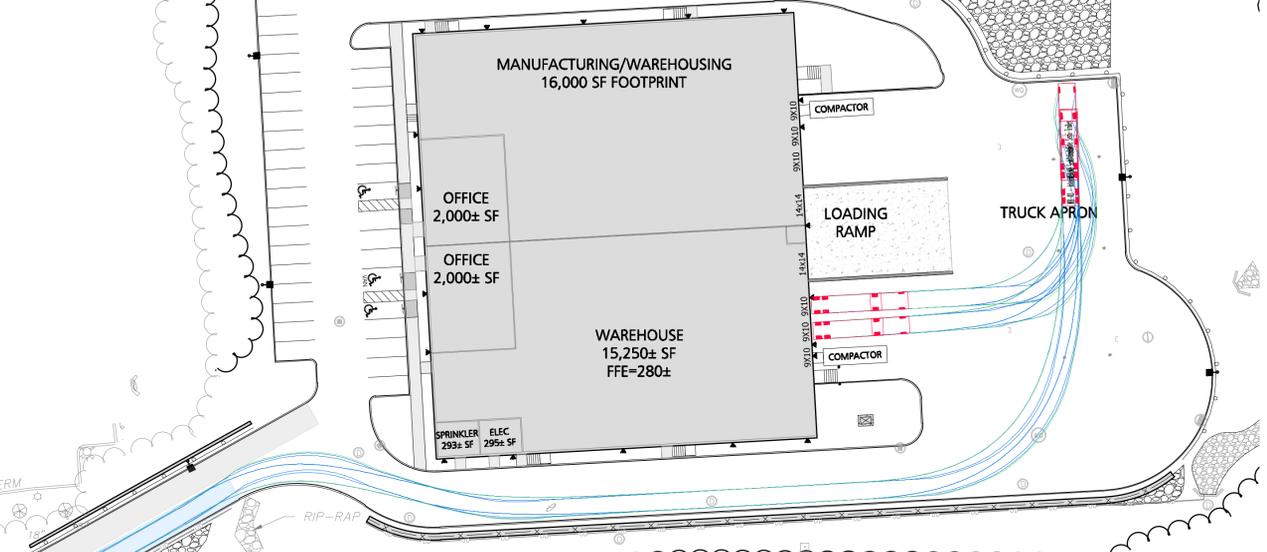
WB40 ENTERING FROM THE WEST
SCALE: 1" = 40'



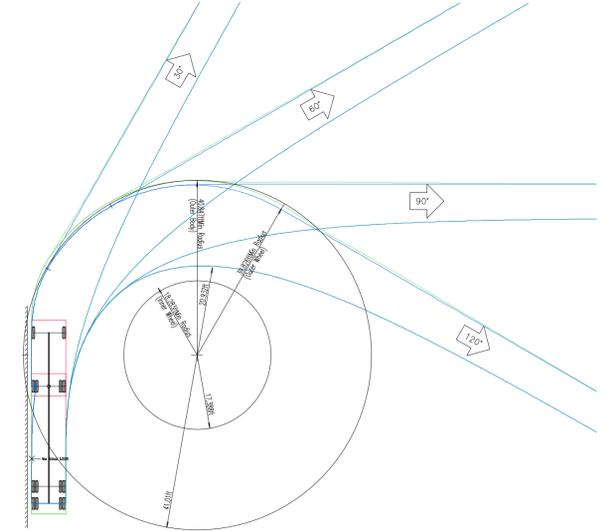
WB40 EXITING TO THE EAST
SCALE: 1" = 40'



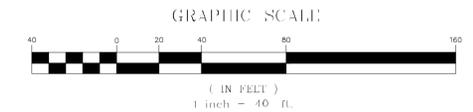
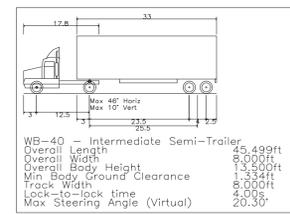
WB40 ENTERING FROM THE EAST
SCALE: 1" = 40'



WB40 ENTERING LOADING DOCKS
SCALE: 1" = 40'



WB40 TURNING TEMPLATE
NOT TO SCALE



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

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APPLICANT/OWNER:

DONEGAL, LLC
PO BOX 4430
MANCHESTER, NH 03108

PROJECT:
PROPOSED INDUSTRIAL BUILDING
6 FORGE PARKWAY
FRANKLIN, MA
PARCEL ID: 272-005-000-000

PROJECT NO. 1362.25 DATE: 04-18-24

SCALE: 1" = 40' DWG.: C-1362-25_Truck Turn

DESIGNED BY: SM CHECKED BY: MAM

PREPARED BY:



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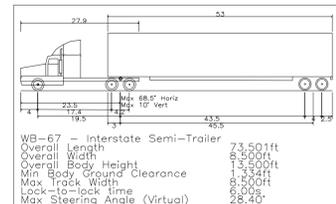
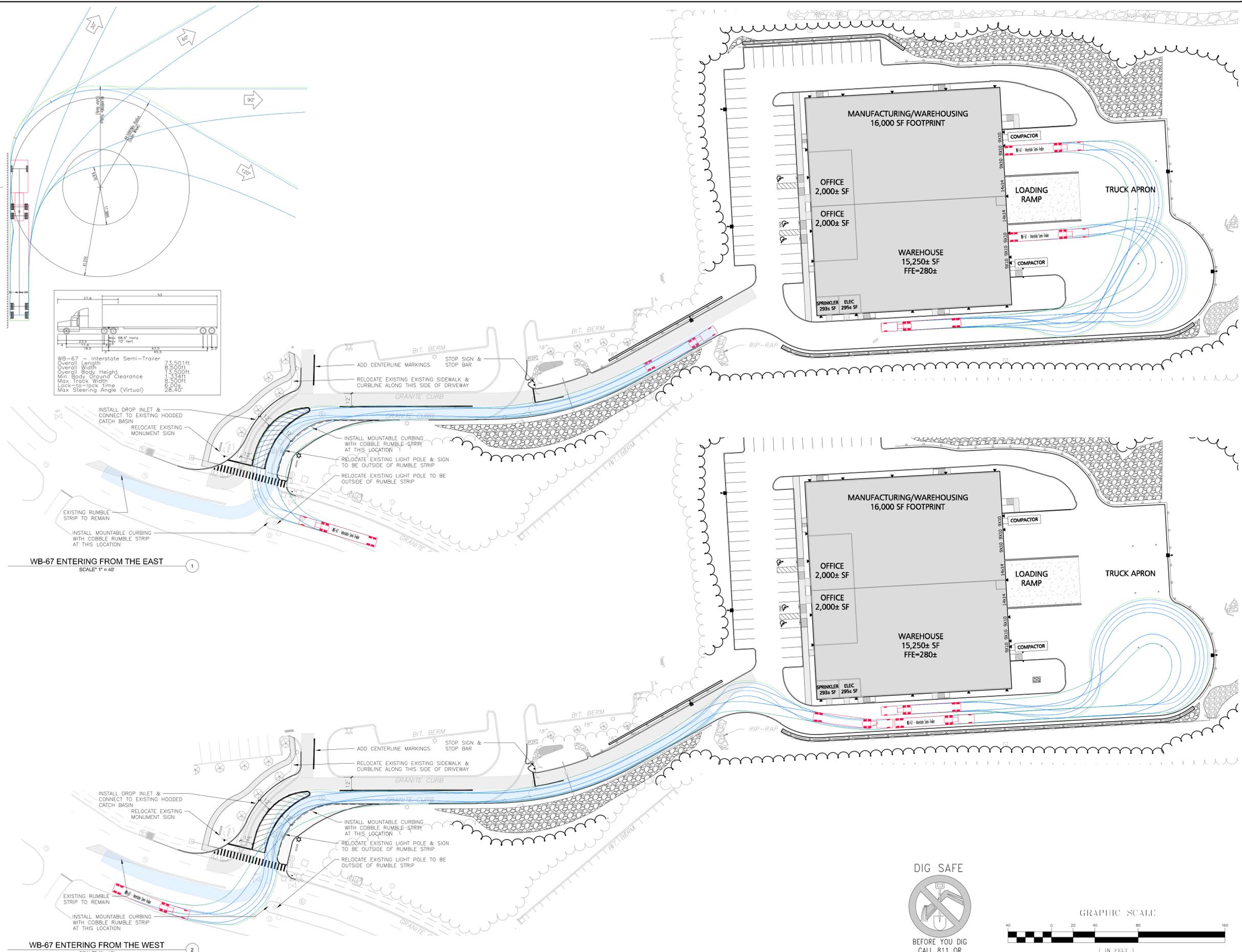
DRAWING TITLE: TRUCK TURN PLAN

WB-40 TRUCK

SHEET NO. C-106A

15 OF 27

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WB-67 ENTERING FROM THE EAST
SCALE: 1" = 40'

WB-67 ENTERING FROM THE WEST
SCALE: 1" = 40'



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

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APPLICANT/OWNER:

DONEGAL, LLC
PO BOX 4430
MANCHESTER, NH 03108

PROJECT:
PROPOSED INDUSTRIAL BUILDING
6 FORGE PARKWAY
FRANKLIN, MA
PARCEL ID: 272-005-000-000

PROJECT NO. 1362.25 DATE: 04-18-24

SCALE: 1" = 40' DWG.: C-1362-25_Truck Turn

DESIGNED BY: SM CHECKED BY: MAM

PREPARED BY:



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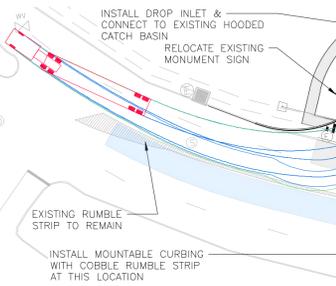
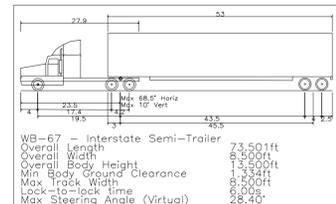
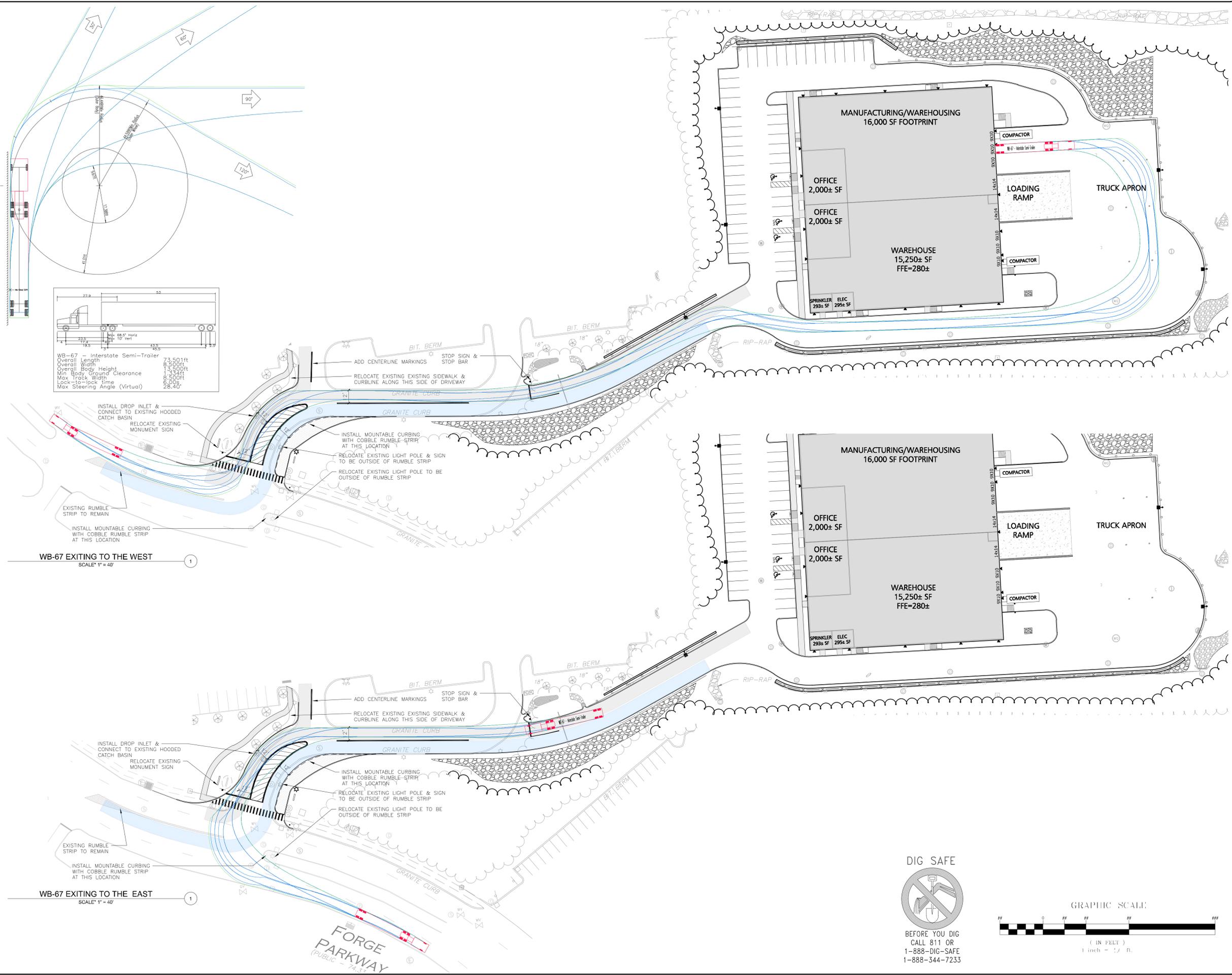
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DRAWING TITLE: TRUCK TURN PLAN
WB-67 TRUCK

SHEET No. C-106B

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WB-67 EXITING TO THE WEST
SCALE: 1" = 40'

WB-67 EXITING TO THE EAST
SCALE: 1" = 40'



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

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APPLICANT/OWNER:
DONEGAL, LLC
PO BOX 4430
MANCHESTER, NH 03108

PROJECT:
PROPOSED INDUSTRIAL BUILDING
6 FORGE PARKWAY
FRANKLIN, MA
PARCEL ID: 272-005-000-000

PROJECT NO. 1362.25 DATE: 06-20-24

SCALE: 1" = ##' DWG.: C-1362-25_Truck Turn

DESIGNED BY: SM CHECKED BY: MAM

PREPARED BY:

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environmental consulting • landscape architecture
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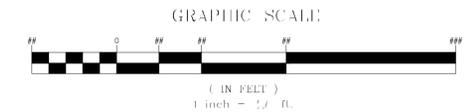
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DRAWING TITLE: TRUCK TURN PLAN
WB-67 TRUCK

SHEET No. C-106C

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