

LOCUS MAP
NOT TO SCALE

SITE DEVELOPMENT PLANS FOR

6 FORGE PARKWAY

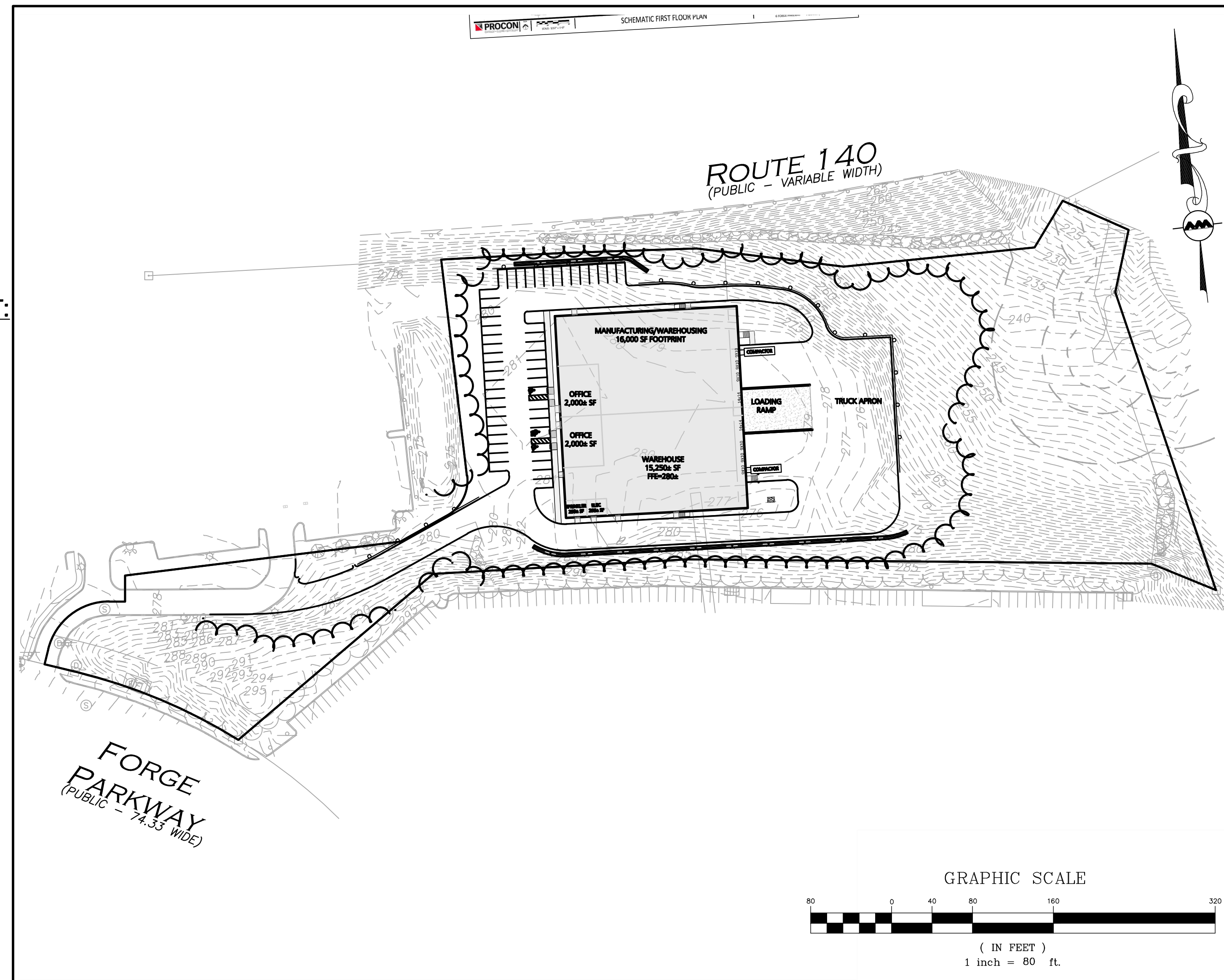
FRANKLIN, MA 02038

TAX MAP 272, LOT 5

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

CIVIL ENGINEER/LANDSCAPE ARCHITECT:
ALLEN & MAJOR ASSOCIATES, INC.
400 HARVEY ROAD
MANCHESTER, NH 03103

SURVEYOR:
ALLEN & MAJOR ASSOCIATES, INC.
100 COMMERCE WAY
WOBURN, MA 01801



LIST OF DRAWINGS			
DRAWING TITLE	SHEET NO.	ISSUED	REVISED
COVER	C	01/31/24	-
EXISTING CONDITIONS	V-101	01/31/24	-
EROSION CONTROL & SITE PREPARATION NOTES	C-101A	01/31/24	-
OVERALL SITE PREPARATION PLAN	C-101	01/31/24	-
SITE PREPARATION PLAN	C-101A	01/31/24	-
SITE PREPARATION PLAN	C-101B	01/31/24	-
OVERALL LAYOUT & MATERIALS PLAN	C-102	01/31/24	-
LAYOUT & MATERIALS PLAN	C-102A	01/31/24	-
LAYOUT & MATERIALS PLAN	C-102B	01/31/24	-
OVERALL GRADING & DRAINAGE PLAN	C-103	01/31/24	-
GRADING & DRAINAGE PLAN	C-103A	01/31/24	-
GRADING & DRAINAGE PLAN	C-103B	01/31/24	-
UTILITIES PLAN	C-104	01/31/24	-
LIGHTING PLAN	C-105	01/31/24	-
DETAILS	C-501	01/31/24	-
DETAILS	C-502	01/31/24	-
DETAILS	C-503	01/31/24	-
DETAILS	C-504	01/31/24	-
DETAILS	C-505	01/31/24	-
DETAILS	C-506	01/31/24	-
DETAILS	C-507	01/31/24	-
LANDSCAPE PLAN	L-101	01/31/24	-
LANDSCAPE NOTES & DETAILS	L-501	01/31/24	-
LANDSCAPE DETAILS	L-502	01/31/24	-

NOTE: ALL PLANS WILL BE ON FILE AND AVAILABLE AT THE TOWN OF FRANKLIN PLANNING DEPARTMENT

APPROVED: TOWN OF FRANKLIN PLANNING BOARD	
_____	DATE APPROVED
_____	DATE SIGNED
_____	PLANNING BOARD MEMBER
_____	PLANNING BOARD MEMBER
_____	PLANNING BOARD MEMBER



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION

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: NONE **DWG.:** C-1362-25_Cover

DESIGNED BY: SM **CHECKED BY:** MAM

PREPARED BY:

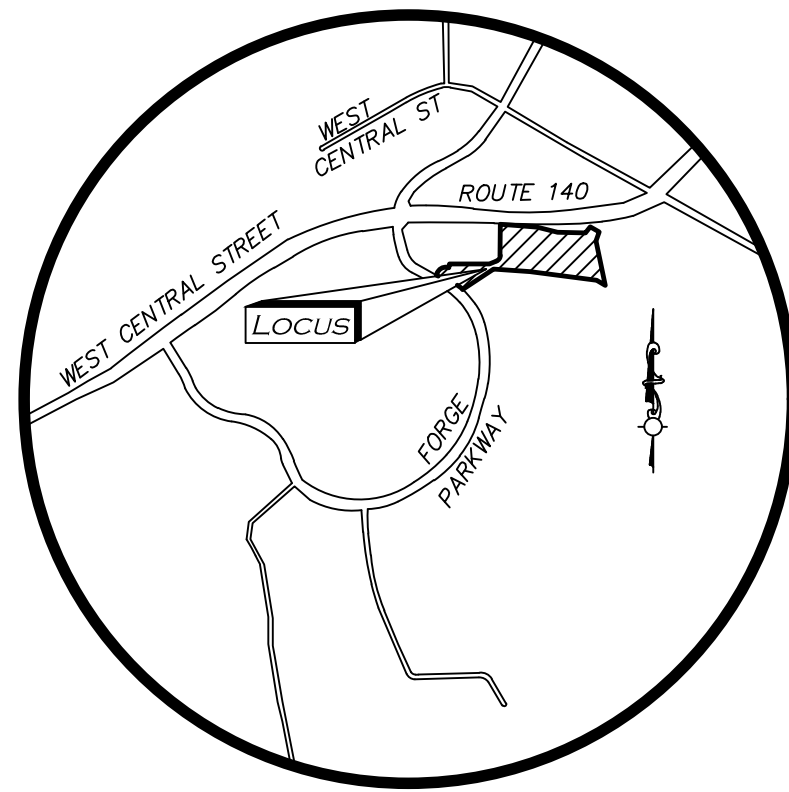
ALLEN & MAJOR ASSOCIATES, INC.
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environmental consulting • landscape architecture
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DRAWING TITLE:	SHEET No.
COVER	C
	01 OF 24

ISSUED FOR CON COM RDA APPLICATION: FEBRUARY 5, 2024

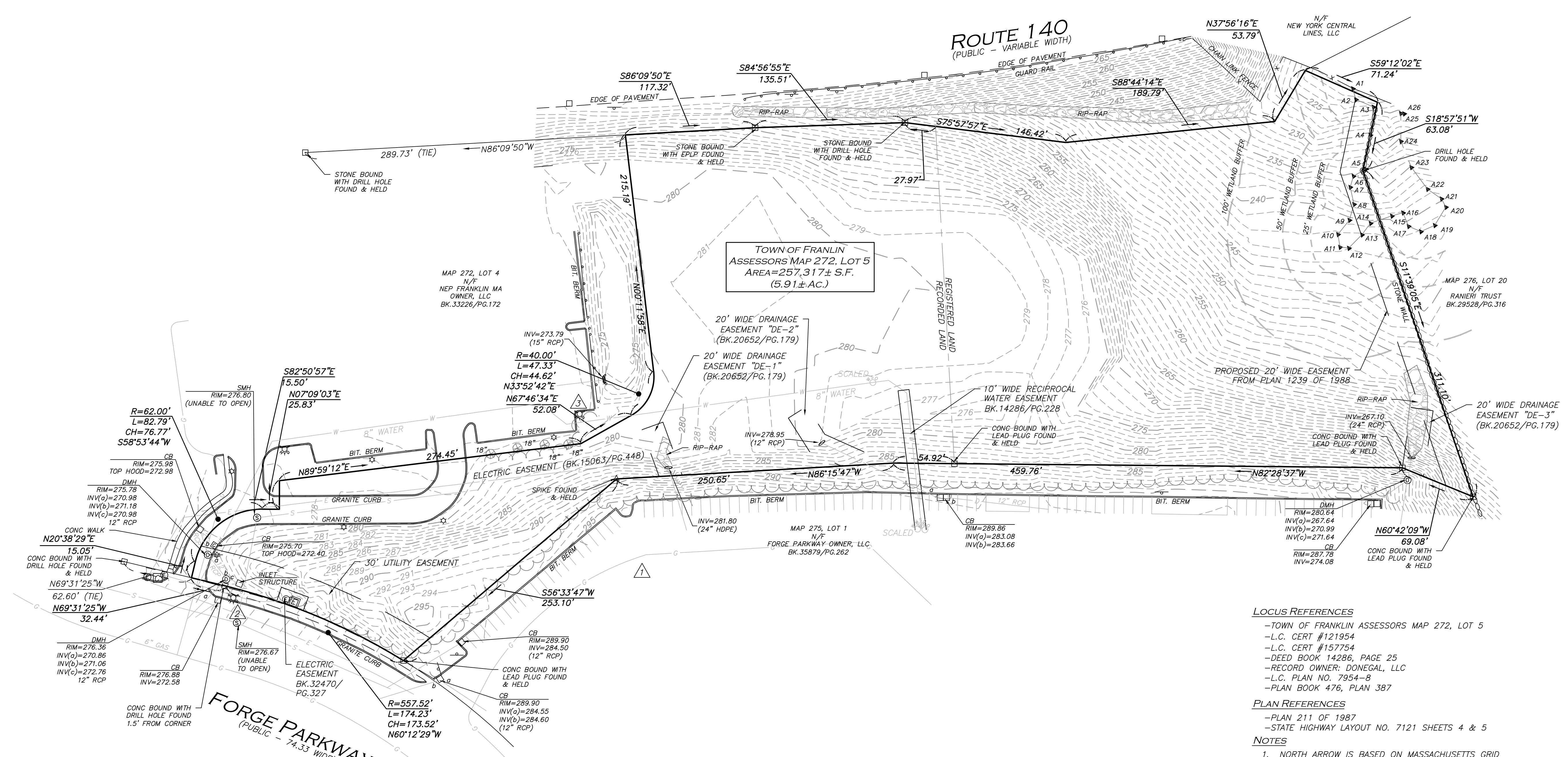
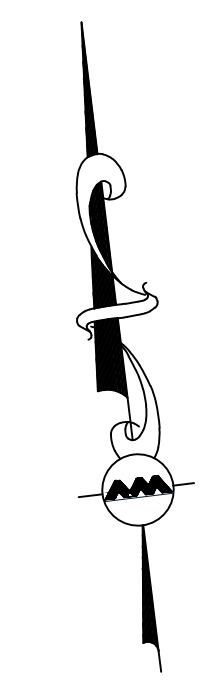
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LOCUS MAP
(NOT TO SCALE)

LEGEND

DRILL HOLE (DH)	●	RIP-RAP	▨	DRAIN LINE	-D-
STONE BOUND (SB)	□	EASEMENT LINE	---	GAS LINE	-G-
SPIKE	△	1' CONTOUR	-53-	ELECTRIC LINE	-E-
DRAIN MANHOLE (DMH)	⊙	5' CONTOUR	-55-	BITUMINOUS	BIT.
SEWER MANHOLE (SMH)	⊙	PROPERTY LINE	---	CONCRETE	CONC.
ELECTRIC MANHOLE (EMH)	⊙	ABUTTERS LINE	---	GRANITE	GRAN.
CATCH BASIN (CB)	⊙	STONE WALL	▤	REINFORCED CONCRETE PIPE	RCP
FIRE HYDRANT	⊙	TREE LINE	▤	HIGH DENSITY POLYETHYLENE PIPE	HDPE
WATER GATE	⊙	EDGE OF PAVEMENT	---	ESCUTCHEON PIN IN LEAD PLUG	EPLP
LIGHT	⊙	CURB	---	NOW OR FORMERLY	N/F
TREE	⊙	CHAIN LINK FENCE	-x-	BOOK	BK.
SIGN	⊙	GUARDRAIL	---	PAGE	PG.
ELECTRIC BOX	⊙	WATER LINE	-W-	LAND COURT	L.C.
WETLAND FLAG	▶A31	SEWER LINE	-S-	LAND COURT CASE	L.C.C.



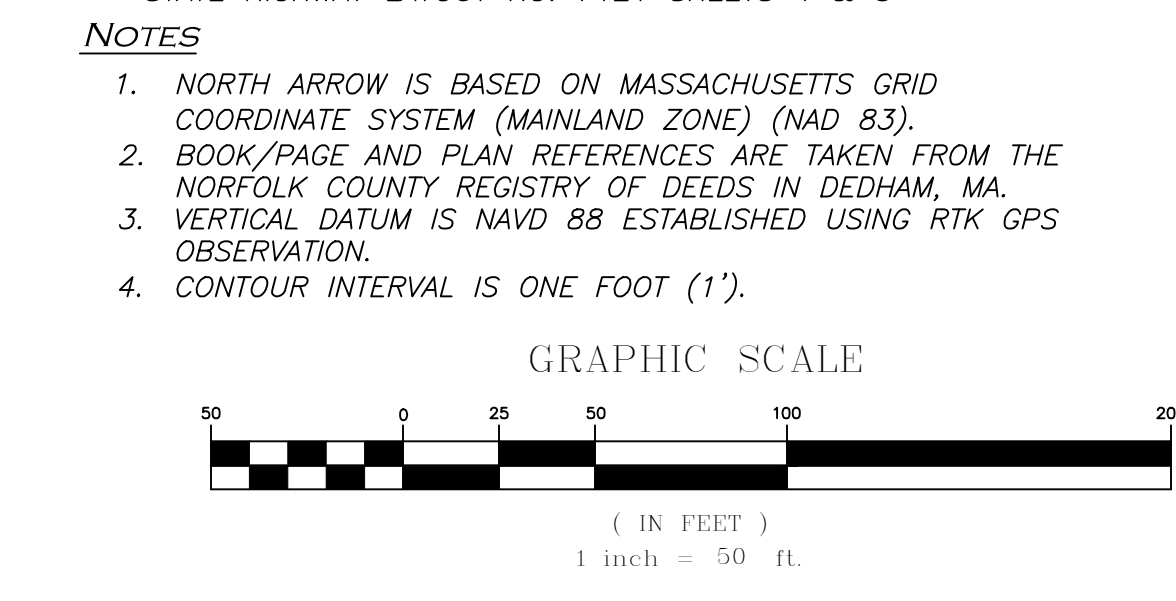
BENCHMARK SUMMARY

TBM #	DESCRIPTION	ELEV.
△	X-MARK ON HYDRANT FLANGE BOLT	298.63
△	X-MARK ON HYDRANT FLANGE BOLT	279.80
△	X-MARK ON HYDRANT FLANGE BOLT	279.70

UTILITY STATEMENT

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. ALLEN & MAJOR ASSOCIATES, INC. (A&M) MAKES NO GUARANTEE THAT THE UTILITIES SHOWN HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. A&M FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. A&M HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

- LOCUS REFERENCES**
- TOWN OF FRANKLIN ASSESSORS MAP 272, LOT 5
 - L.C. CERT #121954
 - L.C. CERT #157754
 - DEED BOOK 14286, PAGE 25
 - RECORD OWNER: DONEGAL, LLC
 - L.C. PLAN NO. 7954-8
 - PLAN BOOK 476, PLAN 387
- PLAN REFERENCES**
- PLAN 211 OF 1987
 - STATE HIGHWAY LAYOUT NO. 7121 SHEETS 4 & 5



WE HEREBY CERTIFY THAT THIS PLAN IS THE RESULT OF AN ACTUAL ON THE GROUND SURVEY PERFORMED ON OR BETWEEN APRIL 11, 2023 AND MAY 2, 2023.

FEB. 5, 2024

 PROFESSIONAL LAND SURVEYOR FOR ALLEN & MAJOR ASSOCIATES, INC.

2/5/24

 NORMAN I. LIPSITZ
 No. 28446
 PROFESSIONAL LAND SURVEYOR

REV	DATE	DESCRIPTION

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

PROJECT:
6 FORGE PARKWAY
 FRANKLIN, MA

PROJECT NO.	1362-25	DATE:	02-05-2024
SCALE:	1" = 50'	DWG. NAME:	S-1362-25
DRAFTED BY:	AJR	CHECKED BY:	NIL

PREPARED BY:

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DRAWING TITLE: **EXISTING CONDITIONS** SHEET No. **V-101**

EROSION CONTROL NOTES

EROSION & SEDIMENTATION CONTROL NOTES:

1. EROSION CONTROL SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE. ANY MODIFICATIONS TO SILT CONTROLS SHOWN ON THE APPROVED PLANS AS A RESULT OF ACTUAL FIELD CONDITIONS OR CONSTRUCTION PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH B.M.P. (BEST MANAGEMENT PRACTICES) PER THE E.P.A. 2022 "CONSTRUCTION GENERAL PERMIT" MANUAL, AND MASSACHUSETTS 2003 EROSION & SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, ANY SUCH MODIFICATIONS FROM THE ABOVE MANUALS SHALL BE INSTALLED AS APPROVED BY THE ENGINEER OR THE LOCAL MUNICIPALITY.
2. AREAS OF EXPOSED SOIL UNDERGOING CONSTRUCTION THAT WILL NOT BE COVERED AND OR FINISHED GRADED SHALL BE STABILIZED AS SOON AS PRACTICABLE BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY (UNLESS MUNICIPALITY HAS STRICTER REQUIREMENTS WHICH SHALL BE FOLLOWED) IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY EROSION CONTROL MEASURES SHALL INCLUDE EROSION CONTROL MESH, NETTING OR MULCH AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND SHOWN ON THE DESIGN PLANS. IF MULCH IS USED, STRAW MULCH SHALL BE APPLIED AT THE RATE OF 4 BALES PER 1,000 SQUARE FEET. APPLICATION AREA SHALL BE SUFFICIENTLY COVERED WITH MULCH TO AVOID ANY VISIBLE SOIL EXPOSURE. MULCH SHALL BE KEPT MOIST TO AVOID LOSS DUE TO WIND. MULCH AND NETTING SHALL BE APPLIED IN THE BASE OF ALL GRASSED WATERWAYS, IN VEGETATIVE SLOPES WHICH EXCEED 15% AND DISTURBED AREAS WITHIN 100 FEET OF WETLANDS OR STREAMS.
3. IF DISTURBED AREAS DO NOT RECEIVE FINAL SEEDING BY OCTOBER 1ST OF THE CONSTRUCTION YEAR, THEN ALL DISTURBED AREAS SHALL BE SEEDING WITH A WINTER COVER CROP AT THE RATE OF 3 LBS PER 1,000 SQUARE FEET. WINTER SEEDING SHALL BE COVERED WITH EROSION CONTROL MESH (MULCH AND NETTING). HEAVY GRADE MATS SHALL BE USED IN THE BASE OF ALL GRASSED WATERWAYS ON VEGETATED SLOPES IN EXCESS OF 15%, AND ANY DISTURBED AREAS WITHIN 100 FEET OF WETLANDS OR STREAMS. MULCH AND NETTING SHALL ALSO BE PROVIDED FOR ADDITIONAL WINTER PROTECTION.
4. ALL TOPSOIL SHALL BE COLLECTED, STOCKPILED, SEEDING WITH RYE AT 3LBS PER 1,000 SQUARE FOOT AND MULCHED, AND REUSED AS REQUIRED. TUBULAR BARRIERS SHALL BE PLACED DOWN GRADIENT FROM STOCKPILED LOAM. LOAM SHALL BE STOCKPILED AT LOCATIONS DESIGNATED BY THE OWNER AND ENGINEER.
5. ALL TUBULAR BARRIERS, SILT SACKS, AND EROSION CONTROL BERMS SHALL BE INSTALLED ACCORDING TO THE SITE PREPARATION PLAN. THESE SHALL BE MAINTAINED DURING DEVELOPMENT TO REMOVE SEDIMENT FROM RUNOFF WATER. ALL THE FILTER BARRIERS AND EROSION CONTROL BERMS SHALL BE INSPECTED AFTER ANY RAINFALL OR RUNOFF EVENT, MAINTAINED AND CLEANED UNTIL ALL AREAS HAVE AT LEAST 85-90% VIGOROUS PERENNIAL COVER OF GRASSES.
6. ADJACENT ROADS SHALL BE PERIODICALLY SWEEP OR WASHED TO AVOID TRACKING MUD, DUST OR DEBRIS FROM THE CONSTRUCTION AREA AS OFTEN AS NECESSARY (WHICH COULD BE ON A DAILY BASIS) TO REMOVE ANY SOIL OR SEDIMENTS AT NO ADDITIONAL COST TO THE OWNER. A WATERING TRUCK WILL BE USED TO PERIODICALLY SPRINKLE CONSTRUCTION AREAS IN ORDER TO KEEP THE LEVEL OF DUST TO A MINIMUM DURING THE DRY MONTHS AT NO ADDITIONAL COST TO THE OWNER.
7. THE CONTRACTOR SHALL USE EXTREME CAUTION TO AVOID ALLOWING SEDIMENTS TO ENTER THE STORM DRAIN SYSTEM DURING CONSTRUCTION. BOTH EXISTING AND PROPOSED CATCH BASIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION BY THE USE SILT SACKS AND/OR TUBULAR BARRIERS AROUND EACH INLET AS NOTED ON THE PLANS. INLET PROTECTION MAY BE REMOVED ONLY AFTER FINISHED AREAS ARE PAVED AND THE VEGETATED SLOPES ARE ESTABLISHED WITH AT LEAST 85-90% OF VIGOROUS PERENNIAL GROWTH.
8. AS APPLICABLE, EROSION CONTROL MESH SHALL BE APPLIED IN ACCORDANCE WITH THE PLANS OVER ALL FINISHED SEEDING AREAS AS SPECIFIED ON THE DESIGN PLANS.
9. AT A MINIMUM, ALL TUBULAR BARRIERS AND FILTER FABRIC SHALL REMAIN IN PLACE UNTIL SEEDINGS OR PLANTINGS HAVE BECOME 85-90% ESTABLISHED. THE LOCAL CONSERVATION COMMISSION MUST APPROVE THE REMOVAL OR RELOCATION OF ANY OF THE TUBULAR BARRIERS AND FILTER FABRIC. ONCE THE TUBULAR BARRIERS ARE REMOVED THE AREAS ARE TO BE LOAMED AND SEEDING TO ACHIEVE FULL STABILIZATION.
10. AT THE OWNER'S DISCRETION ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED TO MAINTAIN STABILITY OF EARTHWORKS AND FINISHED GRADED AREAS. THE CONTRACTOR, AT HIS EXPENSE, WILL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ADDITIONAL MEASURES AS SPECIFIED BY THE OWNER. THIS INCLUDES BUT IS NOT LIMITED TO REQUESTS BY MA DEP, THE ENGINEER AND THE LOCAL MUNICIPALITY, AS AUTHORIZED BY THE OWNER. FAILURE TO COMPLY WITH THE OWNER'S DIRECTIONS WILL RESULT IN DISCONTINUATION OF CONSTRUCTION ACTIVITIES.
11. INSPECTIONS AND MONITORING MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. WEEKLY INSPECTIONS SHALL BE HELD THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITY. WEEKLY INSPECTION REPORTS SHALL BE MAINTAINED BY THE CONTRACTOR AND LOCATED IN THE CONTRACTORS FIELD OFFICE ONSITE. IN ADDITION TO THE NORMAL WEEKLY INSPECTIONS, THE CONTRACTOR SHALL PERFORM AN INSPECTION OF ALL EROSION CONTROL MEASURES AFTER EACH RAINFALL OF 0.25" OR MORE, AND PERFORM THE NECESSARY REPAIRS. THE INSPECTIONS SHALL INCLUDE BUT NOT BE LIMITED TO THE SITE'S DOWN STREAM DISCHARGE POINTS.
12. IF ANY EVIDENCE OF SEDIMENTATION IS OBSERVED AT THE STORMWATER MANAGEMENT AREA INLETS, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROVIDE A PLAN TO THE ENGINEER TO REMOVE ANY ACCUMULATED SEDIMENT IN THESE AREAS. THE CONTRACTOR SHALL ALSO IMMEDIATELY PROVIDE ADDITIONAL ON SITE EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT FURTHER DEGRADATION OF THE AREA.
13. FOLLOWING THE TEMPORARY OR FINAL SEEDINGS, THE CONTRACTOR SHALL INSPECT THE WORK AREA SEMI-MONTHLY TO ENSURE THE AREAS HAVE A MINIMUM OF 85-90% VEGETATED VIGOROUS GROWTH. RE-SEEDING SHALL BE CARRIED OUT BY THE CONTRACTOR WITH FOLLOW UP INSPECTIONS IN THE EVENT OF ANY FAILURES UNTIL VEGETATION IS ADEQUATELY ESTABLISHED.
14. CONTRACTOR & ALL SITE SUBCONTRACTORS SHALL BE FAMILIAR WITH & FOLLOW ALL APPROVED PERMITS AND CONDITIONS. CONTRACTOR SHALL MAINTAIN A COPY OF ALL APPROVED PERMITS ONSITE. ALL CONDITIONS & RECOMMENDATIONS WITHIN THE APPROVED PERMITS SHALL BE COMPLETED.
15. ALL EROSION MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE. ANY MODIFICATIONS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE LOCAL MUNICIPALITY.
16. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL SITE WORK IS COMPLETE AND GROUND COVER IS ESTABLISHED.
17. TOP OF STOCKPILES SHALL BE COVERED IN SUCH MANNER THAT STORMWATER DOES NOT INFILTRATE THE MATERIALS AND THEREBY RENDER THE SAME UNSUITABLE FOR FILL USE.

EROSION & SEDIMENTATION CONTROL NOTES (CONTINUED):

18. ALL DISTURBED OR EXPOSED AREAS SUBJECT TO EROSION SHALL BE STABILIZED WITH MULCH OR SEEDING FOR TEMPORARY VEGETATIVE COVER. NO AREA, SUBJECT TO EROSION SHALL BE LEFT DISTURBED AND UNSTABILIZED FOR PERIODS LONGER THAN IS ABSOLUTELY NECESSARY TO CARRY OUT THAT PORTION OF THE CONSTRUCTION WORK OR SIX MONTHS AFTER SOIL HAS BEEN DISTURBED WHICHEVER IS LESS.
19. CULVERT/PIPE INLETS AND OUTFALLS SHALL BE PROTECTED BY TUBULAR BARRIER FILTERS AND STONE CHECK DAMS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
20. TUBULAR BARRIER DIKES SHALL BE CONSTRUCTED AT ALL EXISTING & PROPOSED CATCH BASINS. NO SEDIMENTATION SHALL ENTER THE ON-SITE OR OFF-SITE DRAINAGE SYSTEMS AT ANY TIME.
21. ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED, CLEANED AND REPAIRED OR REPLACED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION. IN ADDITION, INSPECTIONS SHALL TAKE PLACE WEEKLY AND BEFORE AND AFTER EACH RAINFALL EVENT.
22. ALL PROPOSED SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH JUTE MESH AND PROTECTED FROM EROSION UNTIL WORK IS COMPLETE AND GROUND COVER IS ESTABLISHED.
23. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES ADDITIONAL TUBULAR BARRIERS FOR INSTALLATION AT THE DIRECTION OF THE ENGINEER OR THE TOWN ENGINEER TO MITIGATE ANY EMERGENCY CONDITION.
24. AS CONSTRUCTION DISTURBANCE IS GREATER THAN 1 ACRE, A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT NOI, AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL NEED TO BE SUBMITTED TO THE EPA. THE NPDES PERMIT FOR STORM WATER DISCHARGE, & CONSTRUCTION GENERAL PERMIT NOI WILL BE REQUIRED TO BE SUBMITTED AT LEAST 14 DAYS PRIOR TO COMMENCING CONSTRUCTION BY THE CONTRACTOR.
25. OWNER AND CONTRACTOR ARE RESPONSIBLE FOR COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT NOI, WEEKLY SWPPP INSPECTION REPORTS TO BE PERFORMED BY CONTRACTOR. COPIES OF ALL SWPPP INSPECTION REPORTS SHALL BE PROVIDED TO THE LOCAL MUNICIPALITY, EPA, DEP, OR ANY OTHER AUTHORITY REQUESTING WITHIN 3 DAYS OF EACH INSPECTION.
26. APPLICABLE WORK AND MATERIALS SHALL COMPLY WITH ALL LOCAL, MA DEP, EPA CONSTRUCTION GENERAL PERMIT STANDARDS. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE SITE PLAN REGULATIONS FROM THE LOCAL AND USDA SOIL CONSERVATION SERVICE VEGETATIVE PRACTICES IN SITE DEVELOPMENT.
27. A WATERING TRUCK SHALL BE USED TO PERIODICALLY SPRINKLE CONSTRUCTION AREAS IN ORDER TO KEEP THE LEVEL OF DUST TO A MINIMUM DURING THE DRY MONTHS AND AS REQUIRED.
28. IF DEWATERING IS NECESSARY IT SHALL ONLY BE COMPLETED AS FOLLOWS: THE DISCHARGE SHALL BE STOPPED IMMEDIATELY IF THE RECEIVING AREA SHOWS ANY SIGN OF INSTABILITY OR EROSION. ALL CHANNELS, SWALES, AND DITCHES DUG FOR DISCHARGING WATER FROM THE EXCAVATED AREA SHALL BE STABLE PRIOR TO DIRECTING DISCHARGE TO THEM. IF A CONSTRUCTION EQUIPMENT BUCKET IS USED, IT SHALL BE EMPTY THE MATERIAL TO A STABLE AREA. NO DEWATERING SHALL OCCUR DURING PERIODS OF INTENSE, HEAVY RAIN. FLOW TO THE SEDIMENT REMOVAL STRUCTURE SHALL NOT EXCEED THE STRUCTURE'S CAPACITY TO SETTLE AND FILTER FLOW OR ITS VOLUME CAPACITY. WHENEVER POSSIBLE, THE DISCHARGE FROM THE SEDIMENT REMOVAL STRUCTURE SHALL DRAIN TO A WELL-VEGETATED BUFFER BY SHEET FLOW WHILE MAXIMIZING THE DISTANCE TO THE NEAREST WATER RESOURCE AND MINIMIZING THE SLOPE OF THE BUFFER AREA. THERE SHALL BE NO DIRECT DISCHARGE TO EXISTING WETLANDS OR STREAMS. ALL DISCHARGE SHALL BE IN COMPLIANCE WITH STATE, LOCAL, AND FEDERAL REQUIREMENTS.
29. INITIATE STABILIZATION OF EXPOSED AREAS IMMEDIATELY IF CONSTRUCTION WORK TEMPORARILY OR PERMANENTLY CEASES.
30. ALL DISCHARGES FROM POLLUTION SOURCES ARE PROHIBITED ONSITE SUCH AS FUELS, WASTEWATER FROM WASH OUT OF CONCRETE, WASTEWATER FROM CLEAN OUT OF PAINTS, FORM RELEASE OILS, SOLVENTS, ADHESIVES, CURING COMPOUNDS, POLLUTANTS USED FOR MAINTENANCE OF VEHICLES AND EQUIPMENT, SOAPS & SOLVENTS, TOXIC OR HAZARDOUS SUBSTANCES, CHEMICALS AND OILS. IF A POLLUTANT IS DISCHARGED, IT NEEDS TO BE IMMEDIATELY CLEANED UP BY REMOVING THE CHEMICAL AND AFFECTED SOIL OR AREA OF SPILL FROM THE SITE IN ACCORDANCE WITH BOTH THE MANUFACTURER RECOMMENDATIONS, FEDERAL, STATE, AND LOCAL REQUIREMENTS. DO NOT HOSE DOWN AND SPREAD SPILLED ITEM. ALL CHEMICALS USED ON THE SITE SHALL BE IN LEAK-PROOF CONTAINERS STORED AWAY FROM WETLANDS, SURFACE WATERS, STORMWATER INLETS, AND DRAINAGE MEASURES. SPILL KITS SHALL BE AVAILABLE ONSITE FOR EMERGENCY USE. THERE SHALL BE A SECONDARY CONTAINMENT MEASURE OF ALL CHEMICALS IN ADDITION TO SPILL-PROOF CONTAINERS.
31. PRIOR TO COMMENCEMENT OF CONSTRUCTION, APPLICABLE CONTRACTOR PERSONNEL MUST HAVE AN UNDERSTANDING OF THE EPA CONSTRUCTION GENERAL PERMIT REQUIREMENTS AND THEIR SPECIFIC RESPONSIBILITIES UNDER THE PERMIT. AT A MINIMUM, PERSONNEL MUST BE TRAINED AND UNDERSTAND THE FOLLOWING: LOCATION OF ALL STORMWATER CONTROLS AND HOW TO MAINTAIN THEM, PROCEDURES FOR COMPLYING WITH THE POLLUTION PREVENTION REQUIREMENTS, PROCEDURES FOR CONDUCTING INSPECTIONS, RECORDING FINDINGS, AND TAKING CORRECTIVE ACTION.
32. ALL SEDIMENT TRACKED ONTO ROADWAYS MUST BE REMOVED AT END OF EACH WORK DAY.
33. ALL USE OF CATIONIC TREATMENT CHEMICALS (EXAMPLES INCLUDE POLYMERS, CHITOSAN, CATIONIC PAM, FLOCCULANTS OR OTHER CHEMICAL UTILIZED FOR STABILIZATION) ARE PROHIBITED. IF ALL OTHER AVAILABLE STABILIZATION MEASURES ARE NOT POSSIBLE AND USE OF CATIONIC CHEMICALS IS ABSOLUTELY NECESSARY THE CONTRACTOR WILL NEED TO CONTACT THE EPA NEW ENGLAND OFFICE IN WRITING FOR APPROVAL AND SPECIFIC REQUIREMENTS (MAXIMUM DOSAGE RATE, RESIDUAL TESTING, SPECIFIC LIMITATIONS, ETC) PRIOR TO USE.
34. IF USING NON-VEGETATIVE STABILIZATION MEASURES, IT MUST BE COMPLETED NO LATER THAN 14 DAYS AFTER INITIATING STABILIZATION. ALL AREAS OF EXPOSED SOILS MUST BE COVERED.
35. INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE AT LEAST ONCE EVERY 7 DAYS BY THE CONTRACTOR. AT A MINIMUM INSPECTIONS SHALL INCLUDE ALL DISTURBED AREAS, ALL STORMWATER CONTROLS AND POLLUTION PREVENTION MEASURES, ALL LOCATIONS WHERE STABILIZATION MEASURES HAVE BEEN IMPLEMENTED, EQUIPMENT AND MATERIAL STORAGE AREAS, ALL AREAS WHERE STORMWATER FLOWS AND ALL POINTS OF DISCHARGE. WHEN CORRECTIVE ACTIONS ARE REQUIRED, THE CONTRACTOR MUST IMMEDIATELY TAKE ALL STEPS TO PREVENT POLLUTANT DISCHARGES UNTIL A PERMANENT SOLUTION IS IMPLEMENTED. AS NECESSARY NEW OR MODIFIED CONTROLS MUST BE INSTALLED AND OPERATIONAL. THE REPAIR MUST BE COMPLETED WITHIN 7 DAYS FROM THE TIME OF DISCOVERY. WITHIN 24 HOURS OF A TRIGGERING CONDITION OCCURRING THAT REQUIRES A CORRECTIVE ACTION, A CORRECTIVE ACTION REPORT MUST BE COMPLETED.

MAINTENANCE:

ALL MEASURES STATED ON THE STORMWATER POLLUTION PREVENTION PLANS, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION BY CONTRACTOR UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
2. ALL SEEDING AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A HEALTHY STAND OF GRASS IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDING AS NEEDED.
3. ALL SEDIMENT CONTROLS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE TUBULAR SEDIMENT CONTROLS WHEN IT REACHES HALF THE HEIGHT OF THE CONTROL MEASURE OR AS REQUESTED BY THE OWNER OR ENGINEER.
4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

CONSTRUCTION GENERAL PERMIT NOTES AND NARRATIVE:

NARRATIVE: THE STORMWATER POLLUTION PREVENTION PLANS CONSIST OF THE SITE PREPARATION PLAN TOGETHER WITH AN EXISTING CONDITIONS PLANS, GRADING PLANS, ABBREVIATIONS AND NOTES SHEETS, AND DETAIL SHEETS.

THE EROSION CONTROL PLAN WILL BE IMPLEMENTED TO:

- A. TREAT EROSION AS SOON AS POSSIBLE AFTER DISTURBANCE.
- B. PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA AND ENTERING THE RECEIVING WATERS.
- C. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO MINIMIZE EROSION.
- D. ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION.



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION

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: NONE DWG.: C-1362-25_Site-Prep

DESIGNED BY: SM CHECKED BY: MAM

PREPARED BY:



ALLEN & MAJOR ASSOCIATES, INC.
civil engineering • land surveying
environmental consulting • landscape architecture
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DRAWING TITLE: EROSION CONTROL & SITE PREPARATION NOTES	SHEET No. C-100
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A:\PROJECTS\1362-25\CIVIL DRAWINGS\COURTREVIT_C-1362-25_SITE-PRFEP.DWG

GENERAL NOTES:

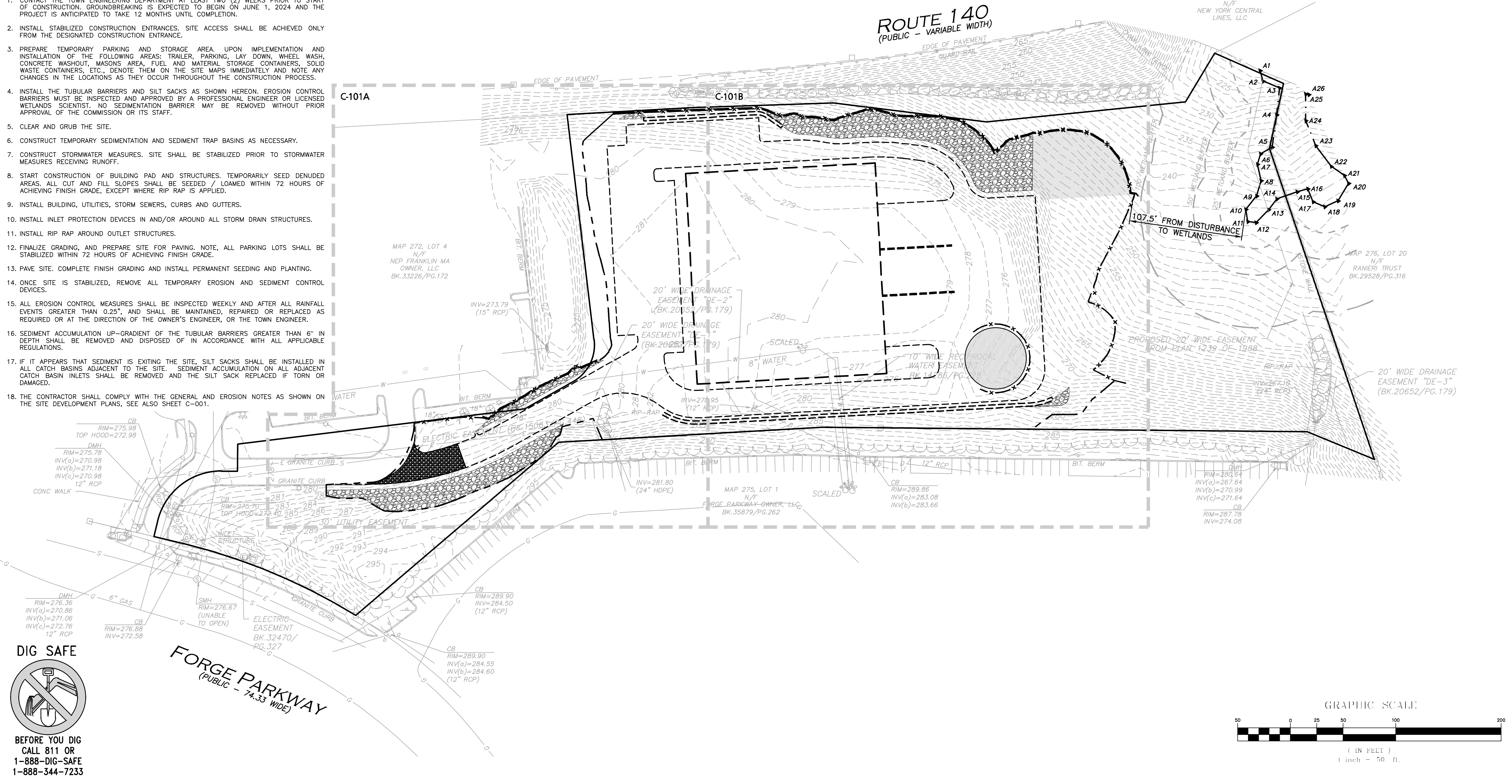
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3. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
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7. INLET PROTECTION SHALL BE INSTALLED IN PROPOSED CATCH BASINS IMMEDIATELY UPON CONSTRUCTION.
8. 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.

GENERAL SEQUENCE OF CONSTRUCTION:

1. CONTACT THE TOWN ENGINEERING DEPARTMENT AT LEAST TWO (2) WEEKS PRIOR TO START OF CONSTRUCTION. GROUND-BREAKING IS EXPECTED TO BEGIN ON JUNE 1, 2024 AND THE PROJECT IS ANTICIPATED TO TAKE 12 MONTHS UNTIL COMPLETION.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCES. SITE ACCESS SHALL BE ACHIEVED ONLY FROM THE DESIGNATED CONSTRUCTION ENTRANCE.
3. PREPARE TEMPORARY PARKING AND STORAGE AREA UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, WHEEL WASH, CONCRETE WASHOUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
4. INSTALL THE TUBULAR BARRIERS AND SILT SACKS AS SHOWN HEREON. EROSION CONTROL BARRIERS MUST BE INSPECTED AND APPROVED BY A PROFESSIONAL ENGINEER OR LICENSED WETLANDS SCIENTIST. NO SEDIMENTATION BARRIER MAY BE REMOVED WITHOUT PRIOR APPROVAL OF THE COMMISSION OR ITS STAFF.
5. CLEAR AND GRUB THE SITE.
6. CONSTRUCT TEMPORARY SEDIMENTATION AND SEDIMENT TRAP BASINS AS NECESSARY.
7. CONSTRUCT STORMWATER MEASURES. SITE SHALL BE STABILIZED PRIOR TO STORMWATER MEASURES RECEIVING RUNOFF.
8. START CONSTRUCTION OF BUILDING PAD AND STRUCTURES. TEMPORARILY SEED DENUDED AREAS. ALL CUT AND FILL SLOPES SHALL BE SEEDDED / LOAMED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE, EXCEPT WHERE RIP RAP IS APPLIED.
9. INSTALL BUILDING, UTILITIES, STORM SEWERS, CURBS AND GUTTERS.
10. INSTALL INLET PROTECTION DEVICES IN AND/OR AROUND ALL STORM DRAIN STRUCTURES.
11. INSTALL RIP RAP AROUND OUTLET STRUCTURES.
12. FINALIZE GRADING, AND PREPARE SITE FOR PAVING. NOTE, ALL PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.
13. PAVE SITE. COMPLETE FINISH GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
14. ONCE SITE IS STABILIZED, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
15. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER ALL RAINFALL EVENTS GREATER THAN 0.25", AND SHALL BE MAINTAINED, REPAIRED OR REPLACED AS REQUIRED OR AT THE DIRECTION OF THE OWNER'S ENGINEER, OR THE TOWN ENGINEER.
16. SEDIMENT ACCUMULATION UP-GRADE OF THE TUBULAR BARRIERS GREATER THAN 6" IN DEPTH SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
17. IF IT APPEARS THAT SEDIMENT IS EXITING THE SITE, SILT SACKS SHALL BE INSTALLED IN ALL CATCH BASINS ADJACENT TO THE SITE. SEDIMENT ACCUMULATION ON ALL ADJACENT CATCH BASIN INLETS SHALL BE REMOVED AND THE SILT SACK REPLACED IF TORN OR DAMAGED.
18. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL AND EROSION NOTES AS SHOWN ON THE SITE DEVELOPMENT PLANS. SEE ALSO SHEET C-001.

LEGEND

- LIMIT OF DISTURBANCE: - - - - -
- STABILIZED ENTRANCE: [Hatched Pattern]
- STOCKPILE/STAGING AREA: [Hatched Pattern]
- TUBULAR BARRIER: - x - x -
- CATCH BASIN FILTER: [Symbol]
- EROSION CONTROL FABRIC: [Hatched Pattern]



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

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

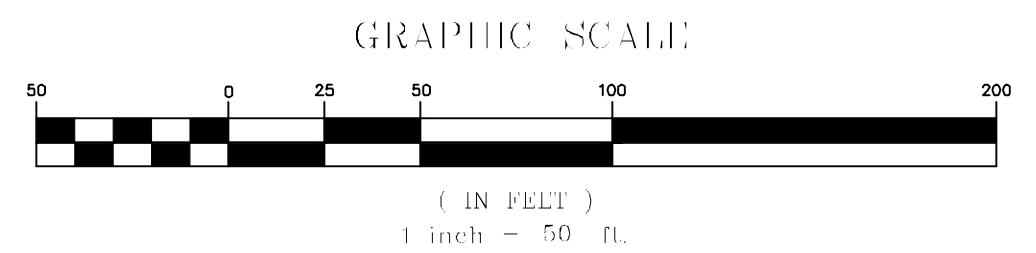
PROJECT NO. 1362-25 DATE: 02-05-24
SCALE: 1" = 50' DWG.: C-1362-25_Site-Prep
DESIGNED BY: SM CHECKED BY: MAM

PREPARED BY:

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environmental consulting • landscape architecture
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DRAWING TITLE: **SITE PREPARATION PLAN** SHEET No. **C-101**
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GENERAL NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
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MAP 272, LOT 4
1/4 AC
NEP FRANKLIN MA
OWNER, LLC
BK.33226/PG.172

INV=273.79
(15" RCP)

20' WIDE DRAINAGE
EASEMENT "DE-1"
(BK.20652/PG.179)

20' WIDE DRAINAGE
EASEMENT "DE-2"
(BK.20652/PG.179)

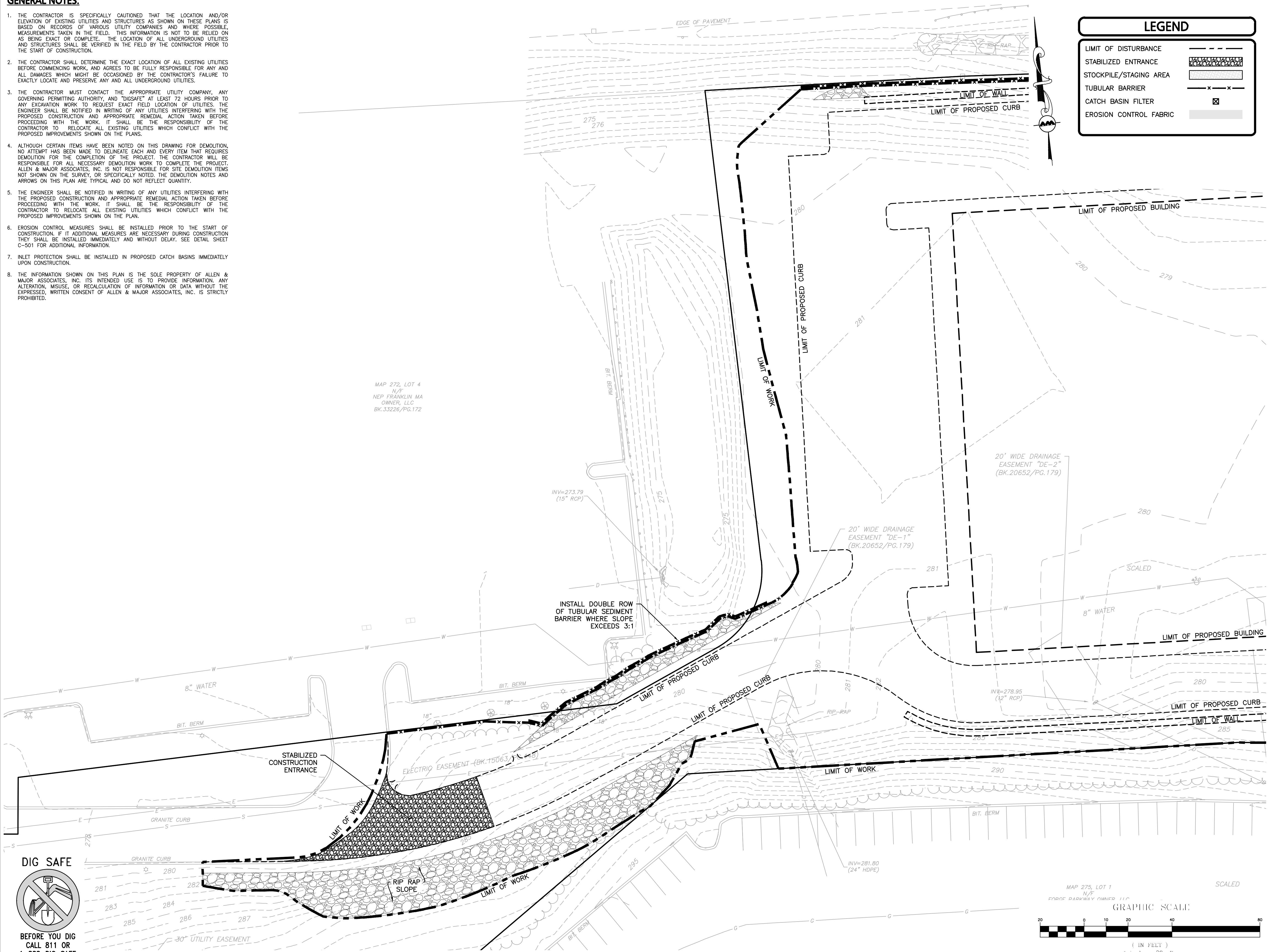
INSTALL DOUBLE ROW
OF TUBULAR SEDIMENT
BARRIER WHERE SLOPE
EXCEEDS 3:1

INV=278.95
(12" RCP)

INV=281.80
(24" HDPE)

LEGEND

- LIMIT OF DISTURBANCE
- STABILIZED ENTRANCE
- STOCKPILE/STAGING AREA
- TUBULAR BARRIER
- CATCH BASIN FILTER
- EROSION CONTROL FABRIC



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1-888-344-7233

MAP 275, LOT 1
1/4 AC
FORGE PARKWAY OWNED LLC

GRAPHIC SCALE:

(1 IN FEET)
1 inch = 20 ft.

PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION

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.: C-1362-25_Site-Prep

DESIGNED BY: SM CHECKED BY: MAM

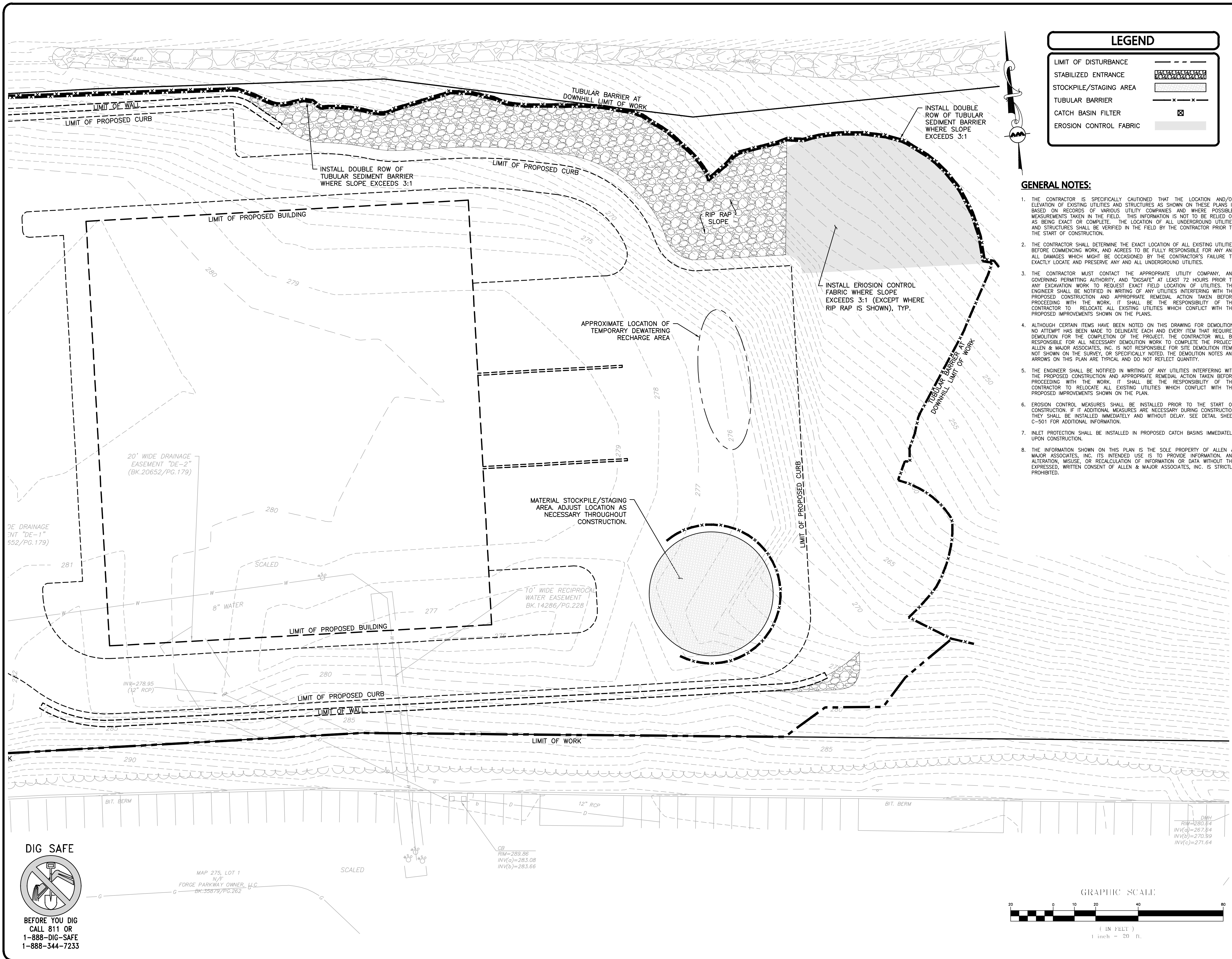
PREPARED BY:

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DRAWING TITLE: **SITE PREPARATION PLAN** SHEET No. **C-101A**
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LEGEND	
LIMIT OF DISTURBANCE	---
STABILIZED ENTRANCE	[Hatched pattern]
STOCKPILE/STAGING AREA	[Diagonal hatching]
TUBULAR BARRIER	-x-x-
CATCH BASIN FILTER	⊗
EROSION CONTROL FABRIC	[Stippled pattern]

GENERAL NOTES:

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PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION

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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.: C-1362-25_Site-Prep

DESIGNED BY: SM CHECKED BY: MAM

PREPARED BY:

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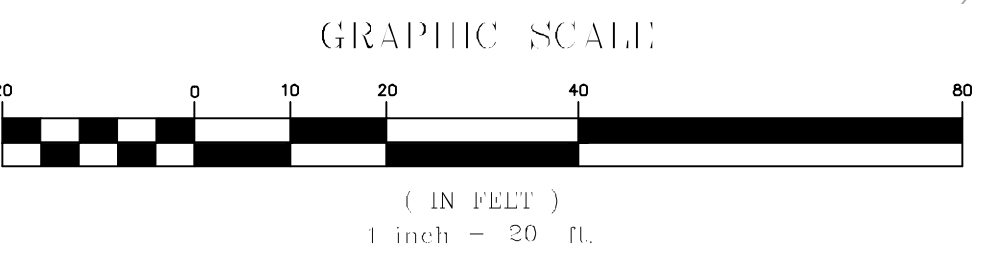
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GRADING & DRAINAGE NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS INCLUDING THE TOWN OF FRANKLIN, MDOT, MADEP, MUTCD, AND ASHRAE.
- 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.
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- EXISTING 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 TRAFFIC BEARING 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 MADEP 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'

ESHWT: 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) (BURIED 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'

ESHWT: 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) (BURIED 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)

ESHWT: 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) (BURIED 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)

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

GEO-TP-3 EXISTING GROUND ELEVATION: 257.9 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) (BURIED 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)

ESHWT: 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)

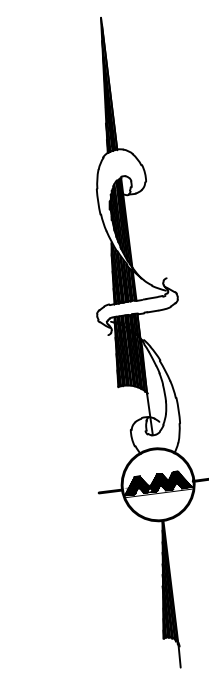
ESHWT: NOT ENCOUNTERED
WEEP: NONE
BEDROCK/REFUSAL: NONE, TERMINATED AT 14' BELOW GRADE

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)

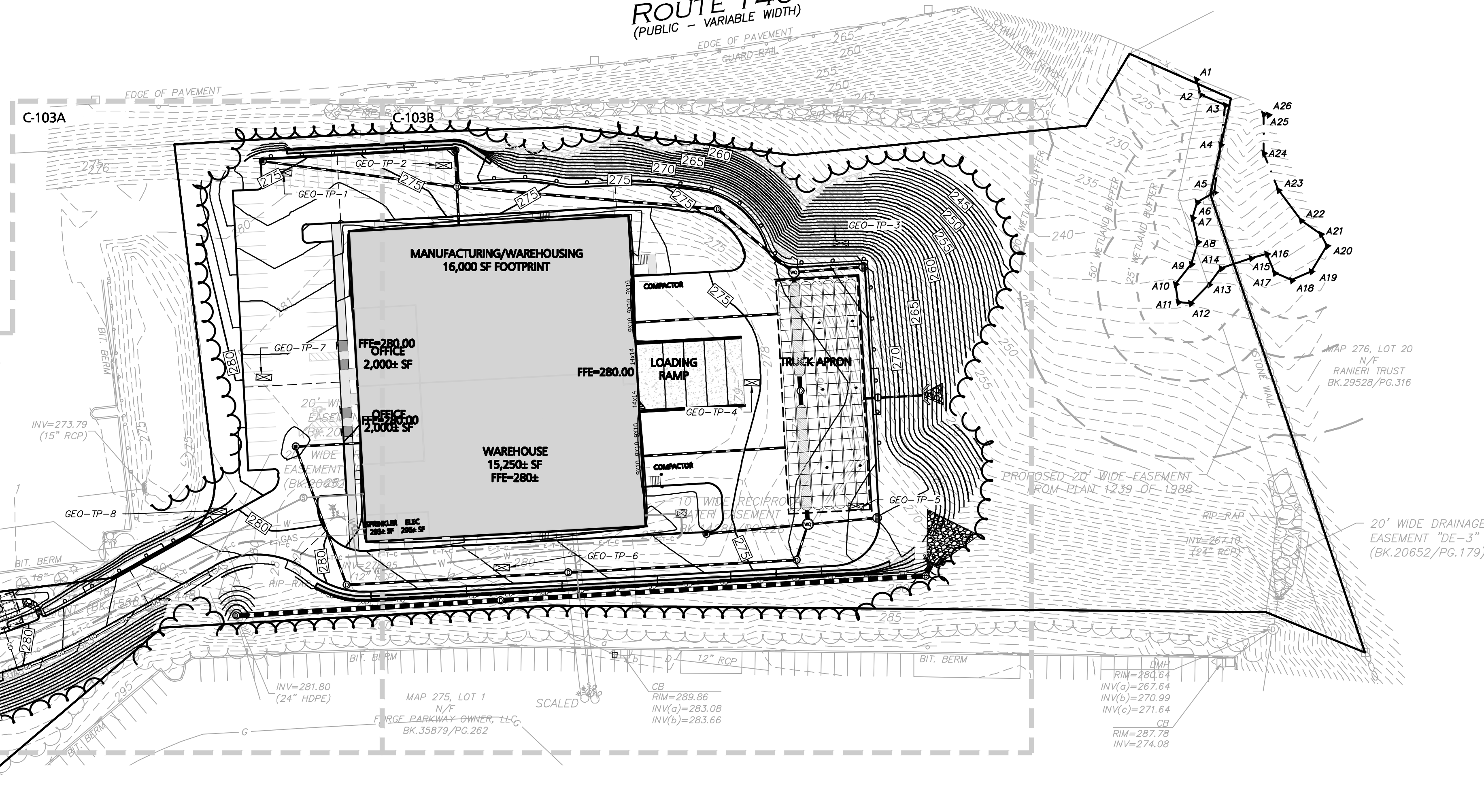
ESHWT: NOT ENCOUNTERED
WEEP: NONE
BEDROCK/REFUSAL: NONE, TERMINATED AT 15' BELOW GRADE

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)

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

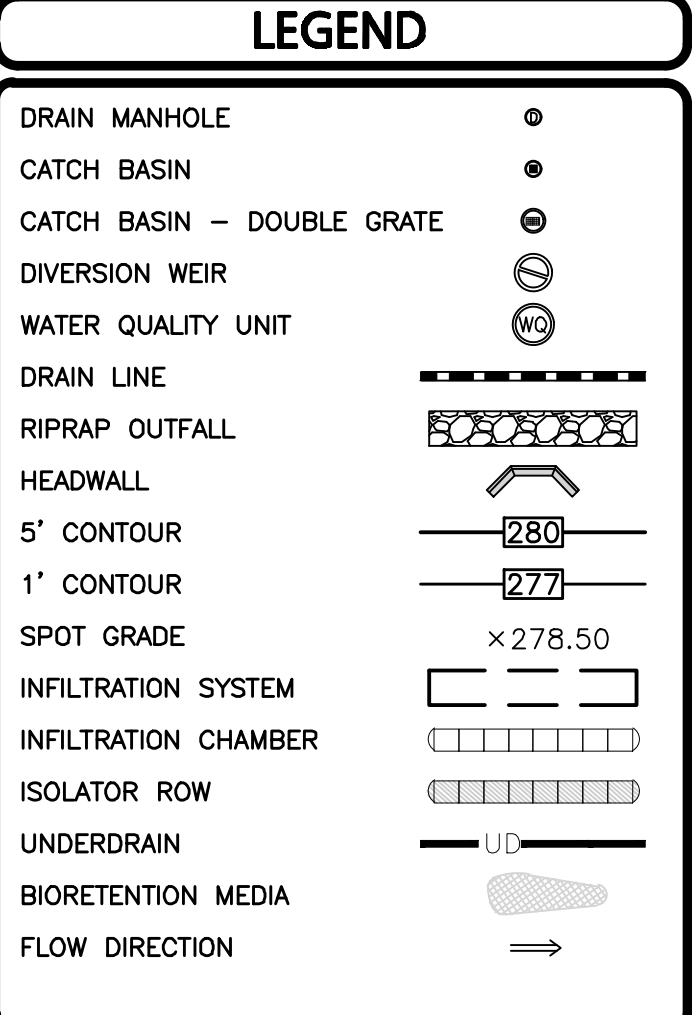


ROUTE 140
(PUBLIC - VARIABLE WIDTH)

**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.

GRAPHIC SCALE:
1 inch = 50 feet



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
-----	------	-------------

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



ALLEN & MAJOR ASSOCIATES, INC.
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environmental consulting • landscape architecture
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FAX: (781) 935-2896

WOUBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

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DRAWING TITLE: **OVERALL GRADING & DRAINAGE PLAN**

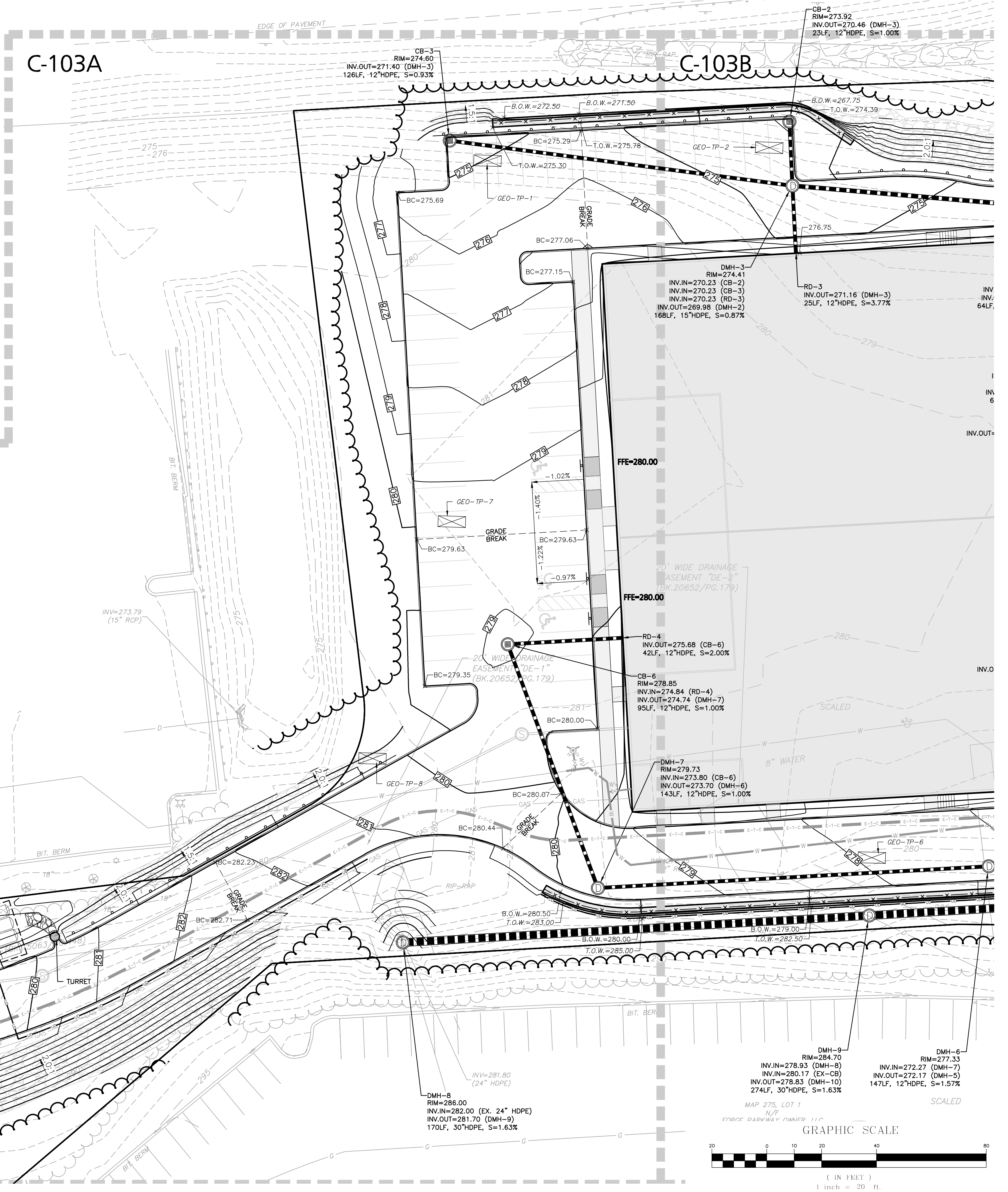
SHEET No. **C-103**



FORGE PARKWAY
(PUBLIC - 74.33' WIDE)

GRADING & DRAINAGE NOTES:

1. REFER TO SHEET C-103 FOR ADDITIONAL COMPLIANCE INFORMATION.
2. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS INCLUDING THE TOWN OF FRANKLIN, MDOT, MADEP, MUTCD, AND AASHTO.
3. 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.
4. ALL ELEVATIONS REFER TO NAVD 88.
5. 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.
6. 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.
7. 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.



MAP 272, LOT 4
W/F
NEP FRANKLIN MA
OWNER, LLC
BK.33226/PG.172

INFILTRATION SYSTEM-1
(16) SC-740 CHAMBERS
FINISHED GRADE=277.00 (MIN)
TOP OF STONE=275.00
TOP OF CHAMBER=274.50
CHAMBER INVERT=272.00
BOTTOM OF STONE=271.50
PERFORM CONFIRMATORY TEST PIT PRIOR TO CONSTRUCTION TO VERIFY DEPTH TO ESHGW

12" INLINE BEEHIVE GRATE
RIM=277.50
BIORETENTION SYSTEM
TOP OF MEDIA=277.00
BOTTOM OF MEDIA=275.00

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1-888-DIG-SAFE
1-888-344-7233

LEGEND

DRAIN MANHOLE	○
CATCH BASIN	●
CATCH BASIN - DOUBLE GRATE	⊙
DIVERSION WEIR	⊖
WATER QUALITY UNIT	⊗
DRAIN LINE	—
RIPRAP	▨
HEADWALL	⌒
5' CONTOUR	280
1' CONTOUR	277
SPOT GRADE	x278.50
INFILTRATION SYSTEM	▭
INFILTRATION CHAMBER	▭
ISOLATOR ROW	▭
UNDERDRAIN	—
BIORETENTION MEDIA	▭
FLOW DIRECTION	→



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION

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:



ALLEN & MAJOR ASSOCIATES, INC.
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environmental consulting • landscape architecture
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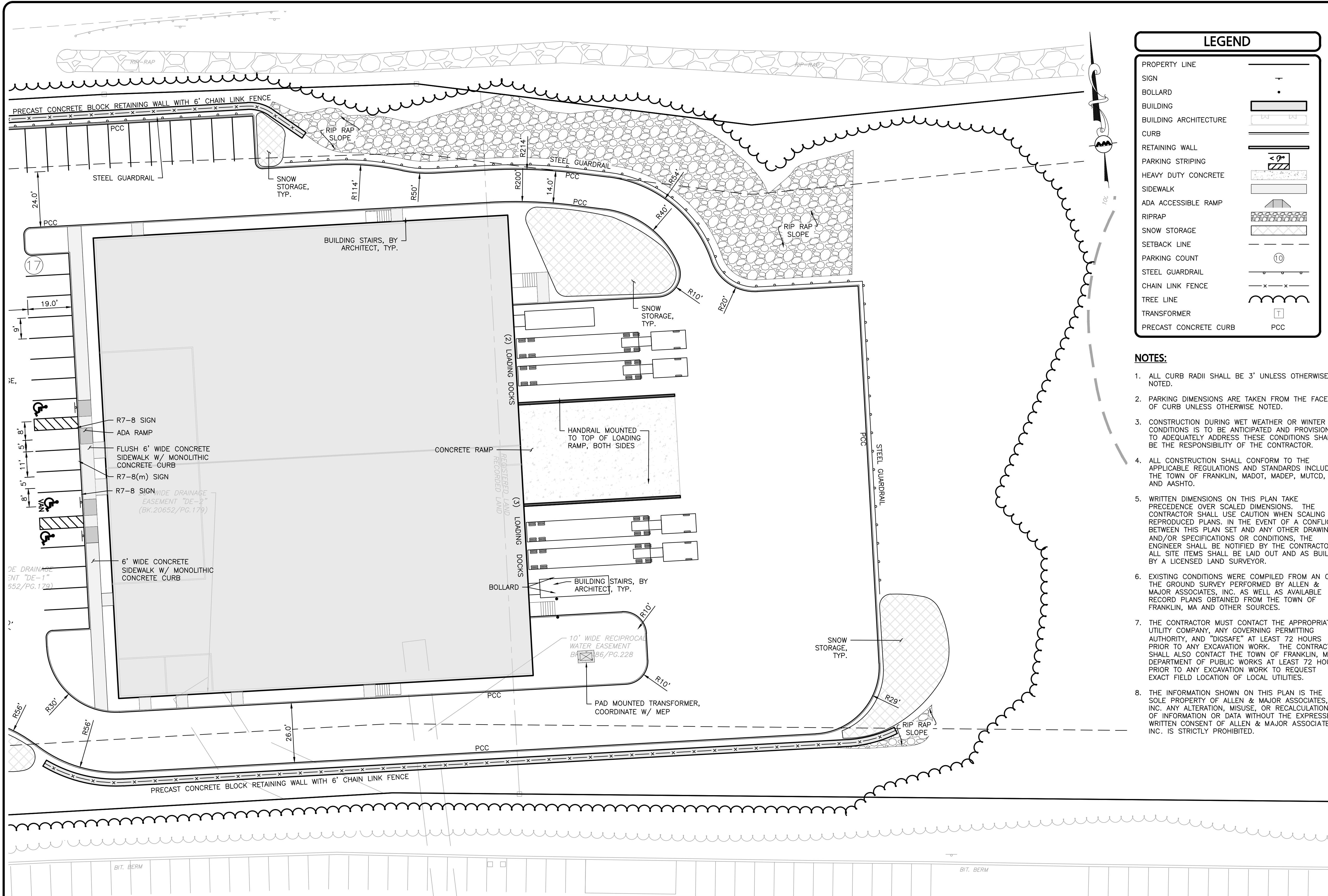
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DRAWING TITLE: SHEET No.

GRADING & DRAINAGE PLAN C-103A

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LEGEND

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

NOTES:

1. ALL CURB RADII 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.
5. WRITTEN DIMENSIONS ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS OR CONDITIONS, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR. ALL SITE ITEMS SHALL BE LAID OUT AND AS BUILT BY A LICENSED LAND SURVEYOR.
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.



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION

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PO BOX 4430
MANCHESTER, NH 03108

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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:



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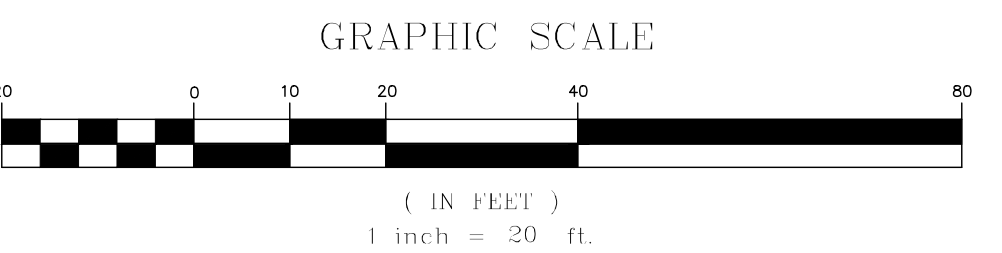
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DRAWING TITLE: LAYOUT & MATERIALS PLAN SHEET No. C-102B

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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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