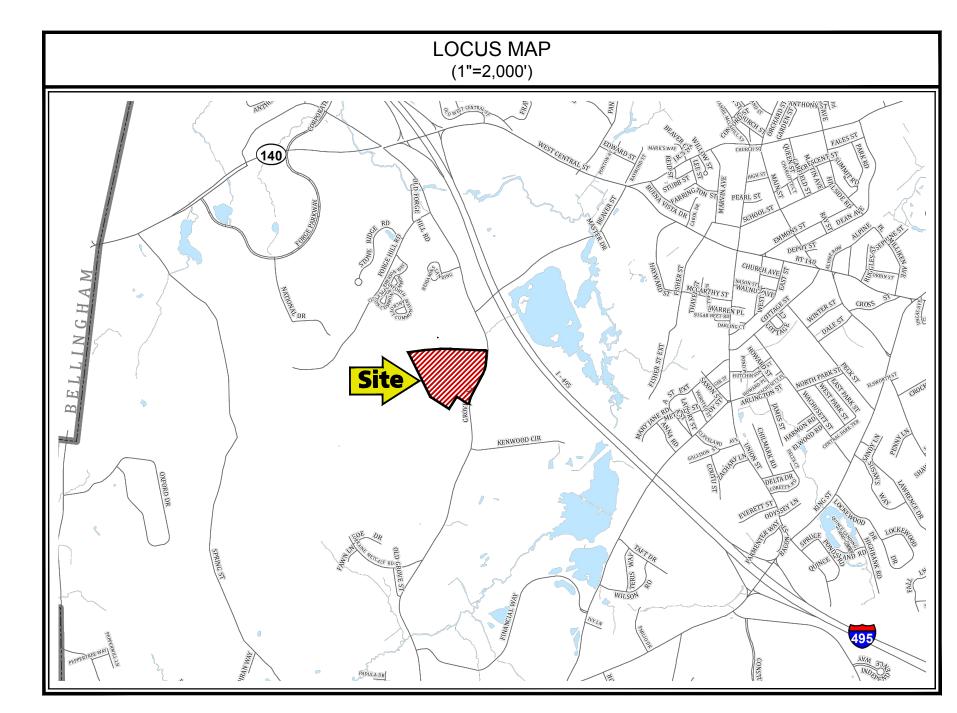
GROVE STREET RESIDENCES 121 GROVE STREET - FRANKLIN, MA

DRAWING INDEX				
DRAWING DATE	LAST REVISION	DRAWING	DRAWING DESCRIPTION	
10/30/2023	05/10/2024	C-0	COVER SHEET	
05/25/2022	11/09/2023	1 OF 1	EXISTING CONDITIONS SITE PLAN (PREPARED BY GUERRIERE & HALNON, INC.)	
10/30/2023	05/10/2024	OS-1	OVERALL SITE PLAN	
10/30/2023	05/10/2024	C-1A - C1B	DEMOLITION AND EROSION CONTROL PHASE I PLAN	
10/30/2023	05/10/2024	C-1C - C1D	SEDIMENT AND EROSION CONTROL PHASE II PLAN	
03/28/2024	05/10/2024	C-1E	CONSTRUCTION PHASING PLAN	
10/30/2023	05/10/2024	C-2A	GRADING AND DRAINAGE PLAN	
10/30/2023	05/10/2024	C-2B	GRADING AND DRAINAGE PLAN	
12/18/2023	05/10/2024	C-2C	WETLAND REPLICATION PLAN	
03/28/2024	05/10/2024	C-2D	RESOURCE AREA IMPACT PLAN	
03/28/2024	05/10/2024	C-2E	RESOURCE AREA IMPACT PLAN	
10/30/2023	05/10/2024	C-3A	UTILITY PLAN	
10/30/2023	05/10/2024	C-3B	UTILITY PLAN	
10/30/2023	05/10/2024	C-4A	PARKING AND TRAFFIC CONTROL PLAN	
10/30/2023	05/10/2024	C-4B	PARKING AND TRAFFIC CONTROL PLAN	
10/30/2023	05/10/2024	C-5	SITE DETAILS - I	
10/30/2023	05/10/2024	C-6	SITE DETAILS - II	
10/30/2023	05/10/2024	C-7	SITE DETAILS - III	
10/30/2023	05/10/2024	C-8	SITE DETAILS - IV	
10/30/2023	05/10/2024	C-9	SITE DETAILS - V	
10/30/2023	05/10/2024	C-10	SITE DETAILS - VI	
10/30/2023	05/10/2024	C-11	SITE DETAILS - VII	
10/30/2023	05/10/2024	C-12	SITE DETAILS - VIII	
02/02/2024	05/10/2024	C-13	SITE DETAILS - IX	
02/02/2024	05/10/2024	C-14	RETAINING WALL CROSS SECTIONS	
02/02/2024	05/10/2024	C-15	RETAINING WALL CROSS SECTIONS	
03/28/2024	05/10/2024	C-16	SEDIMENT & EROSION CONTROL AT CLOSEST WETLAND POINT PLAN	
10/30/2023	05/10/2024	FT-1	FIRE TRUCK TURNING PLAN	
02/05/2024	05/10/2024	TT-1	MOVING TRUCK TURNING PLAN	
02/05/2024	05/10/2024	TT-2	GARBAGE/RECYCLE TRUCK TURNING PLAN	
10/30/2023	05/10/2024	L100 - L103	LANDSCAPE PLANTING PLANS	
10/30/2023	05/10/2024	L200 - L203	LANDSCAPE LIGHTING PLAN	
10/30/2023	05/10/2024	L300	LANDSCAPE DETAILS	
10/30/2023	05/10/2024	L301	LANDSCAPE LIGHTING CUTSHEETS	
10/30/2023	05/10/2024	L400 - L403	LANDSCAPE PHOTOMETRIC PLANS	



REVISED PER CONCOM PEER REVIEW COMMENTS 03/28/2024



RJO'CONNELL & ASSOCIATES, INC.

CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS
80 MONTVALE AVENUE, SUITE 201 STONEHAM, MA 02180
PHONE: 781.279.0180 RJOCONNELL.COM

PREPARED FOR:

FAIRFIELD RESIDENTIAL COMPANY LLC

30 BRAINTREE HILL OFFICE PARK SUITE 105 BRAINTREE, MA 02184 OWNER:

BRYN SMITH

106 MENDON STREET BELLINGHAM, MA 02019 PARCEL ID 295-001 AND 294-007

DESIGN TEAM

CIVIL ENGINEERING:
RJ O'CONNELL & ASSOCIATES, INC.
80 MONTVALE AVENUE
SUITE 201
STONEHAM, MA 02180

STONEHAM, MA 02180 ATTN: BRIAN DUNDON, P.E. PHONE: (781) 279-0180

SURVEY:
GUERRIERE & HALNON, INC.
55 WEST CENTRAL STREET
FRANKLIN, MA 02038
ATTN: DONALD R. NIELSON, B.S.E.T.,
OFFICE MANAGER
PHONE: (508) 528-3221

LEGAL:
CORNETTA, FICCO & SIMMLER, P.C.
4 WEST STREET
FRANKLIN, MA 02038
ATTN: RICHARD CORNETTA, JR.
PHONE: (508) 528-5300

MANAGEMENT CONSULTANT: SHIPE CONSULTING P.O.BOX 1217 CONCORD, MA 01742 ATTN: JOHN SHIPE, P.E. PHONE: (978) 857-8877

WETLANDS:
LUCAS ENVIRONMENTAL, LLC
500A WASHINGTON STREET
QUINCY, MA 02169
ATTN: CHRISTOPHER M. LUCAS,
PRINCIPAL, PWS, CWS, RPSS
CERTIFIED WETLAND SCIENTIST/
PROFESSIONAL SOIL SCIENTIST
PHONE: (617) 405-4140

GEOTECHNICAL:
NORTHEAST GEOTECHNICAL, INC.
166 RAYMOND HALL DRIVE
NORTH ATTLEBOROUGH, MA 02760
ATTN: GLENN A. OLSON, P.E.
PRINCIPAL ENGINEER
PHONE: (508) 598-3510

NOT FOR CONSTRUCTION

GOVERNMENT/UTILITY CONTACTS

BUILDING AND INSPECTIONS

DEPARTMENT:
MUNICIPAL BUILDING

355 EAST CENTRAL STREET
FRANKLIN, MA 02038
ATTN: LLOYD BROWN,
BUILDING COMMISSIONER
PHONE: (508) 520-4926

CONSERVATION COMMISSION:
MUNICIPAL BUILDING
355 EAST CENTRAL STREET
FRANKLIN, MA 02038
ATTN: BREEKA LI GOODLANDER, CWS
CONSERVATION AGENT
PHONE: (508) 520-4847

ENGINEERING DEPARTMENT:
DPW ADMINISTRATION BUILDING
257 FISHER STREET
FRANKLIN, MA 02038
ATTN: MIKE MAGLIO, TOWN ENGINEER
PHONE: (508) 520-4910

FIRE DEPARTMENT:
40 WEST CENTRAL STREET
FRANKLIN, MA 02038
ATTN: JAMES McLAUGHLIN, FIRE CHIEF
PHONE: (508) 528-2323

HEALTH DEPARTMENT:
MUNICIPAL BUILDING
355 EAST CENTRAL STREET
FRANKLIN, MA 02038
ATTN: CATHLEEN LIBERTY, MPH
HEALTH DIRECTOR
PHONE: (508) 520-4905

PLANNING AND COMMUNITY
DEPARTMENT:
MUNICIPAL BUILDING
355 EAST CENTRAL STREET
FRANKLIN, MA 02038
ATTN: AMY LOVE, TOWN PLANNER
PHONE: (508) 520-4907

POLICE DEPARTMENT: 911 PANTHER WAY FRANKLIN, MA 02038 ATTN: THOMAS J. LYNCH, CHIEF OF POLICE PHONE: (508) 528-1212

PUBLIC WORKS:
DPW ADMINISTRATION BUILDING
257 FISHER STREET
FRANKLIN, MA 02038
ATTN: ROBERT A. CANTOREGGI,
DIRECTOR
PHONE: (508) 520-4910

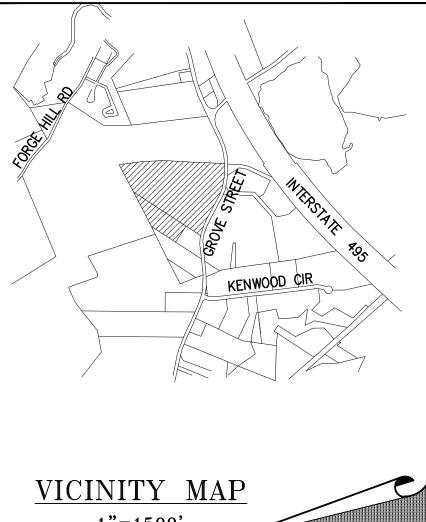
WATER AND SEWER DIVISION:
DPW ADMINISTRATION BUILDING
357 FISHER STREET
FRANKLIN, MA 02038
ATTN: DOUG MARTIN, P.E.
SUPERINTENDENT
PHONE: (508) 520-4910

DRAWING NUMBER:

PROJECT NUMBER:

22016

N/F COMMONWEALTH OF MASSACHUSETTS



1"=1500'

LEGAL NOTES

UTILITIES ARE PLOTTED AS A COMPILATION OBSERVED UNDERGROUND) CONSIDERED APPROXIMATE. LACKING EXCAVATION THE EXACT PHYSICAL EVIDENCE, MAY EXIST. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORÉ EXCAVATING AND DRILLING AND CALL DIGSAFE AT 1(888)DIG-SAFE{7233}.

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

OWNER

BRYN SMITH 106 MENDON STREET BELLINGHAM, MA 02019 A.M. 295 LOT 1 A.M. 294 LOT 7

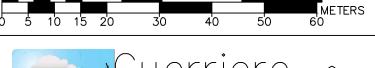
DEED BK. 3972 PG 310

EXISTING CONDITIONS SITE PLAN 121 GROVE STREET FRANKLIN **MASSACHUSETTS**

M	AY	20,	2022
-	RF	- \/\ S \/\	J DESCRIPTION

DAIL	INEVISION DESCRIPTION
05.25.2022	REVISED EXISTING WATER AND SEWER.
11.16.2022	ADDED LABELS TO RESOURCE AREAS.
01.19.2023	PER PEER REVIEW COMMENTS.
04.03.2023	SERIES D ADDED.
04.20.2023	PER WETLAND SCIENTIST COMMENTS.
07.12.2023	ADDED FRW WETLAND SERIES.
11.09.2023	ADDED BF4-BF9 SERIES.

GRAPHIC SCALE: 1"=60'



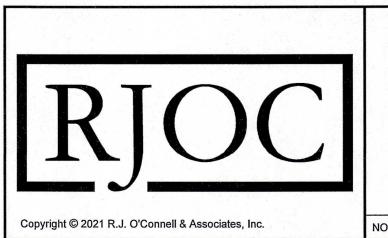


55 WEST CENTRAL ST. PH. (508) 528-3221 FRANKLIN, MA 02038 FX. (508) 528-7921 www.gandhengineering.com

JOB NO. F4545 1 OF 1

212 LF

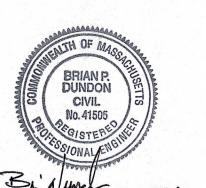
ISOLATED VEGETATED WETLAND (WFD SERIES):



DESIGNED BY: MAC DRAWN BY: MCR REVISED PER CONCOM PEER REVIEW COMMENTS REVISED PER CONCOM PEER REVIEW COMMENTS 03/28/2024 REVIEWED BY: BJM REVISED PER ZBA PEER REVIEW COMMENTS 02/12/2024 REVISED PER ZBA PEER REVIEW COMMENTS 02/02/2024 SCALE: 1" = 80' REVISED PER ONSITE SOIL TESTING RESULTS/NOI SUBMISSION 12/18/2023 DATE DATE NO. REVISION REVISION

FAIRFIELD GROVE STREET LLC

30 BRAINTREE HILL OFFICE PARK SUITE 105 BRAINTREE, MA 02184



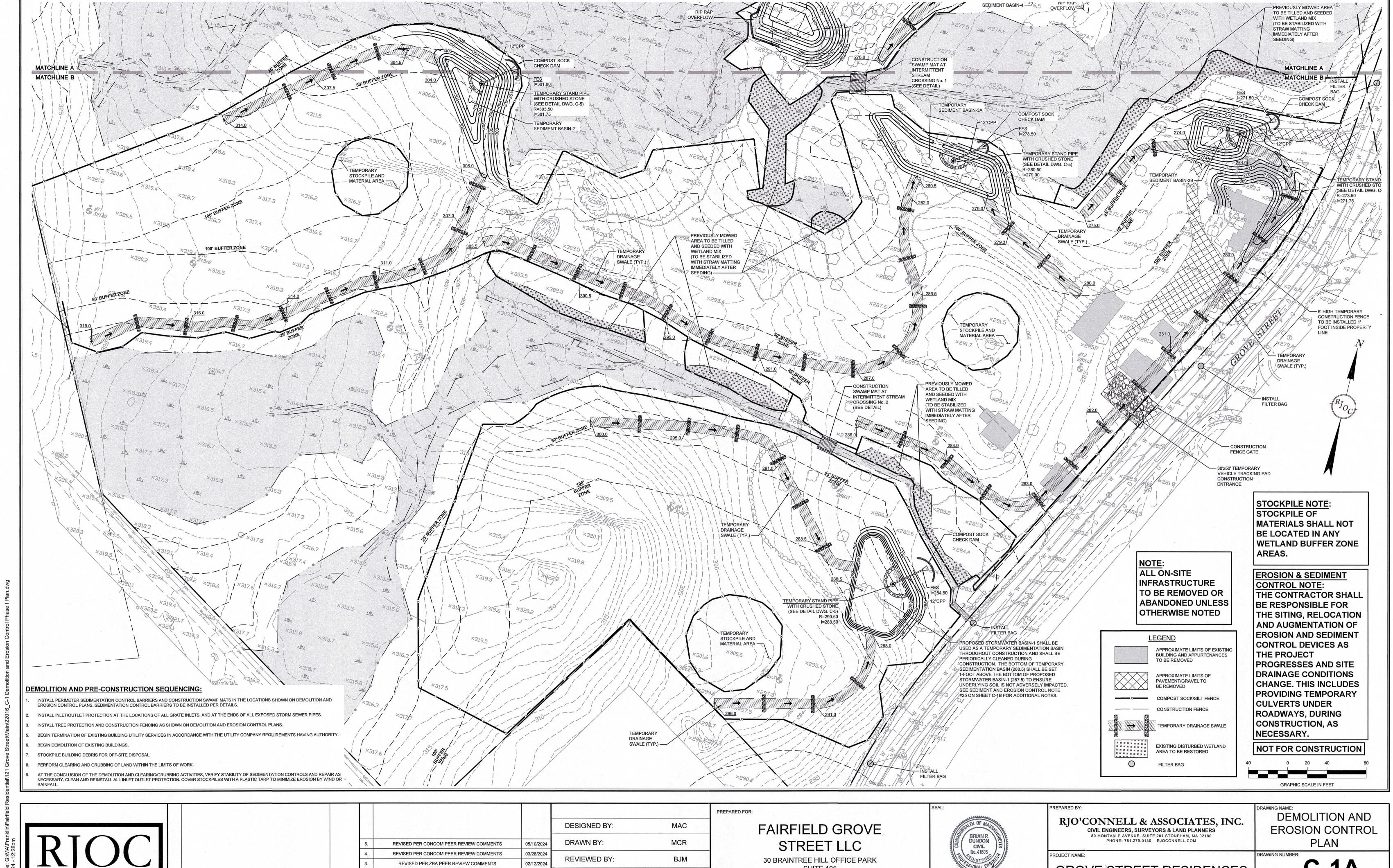
RJO'CONNELL & ASSOCIATES, INC.

CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS 80 MONTVALE AVENUE, SUITE 201 STONEHAM, MA 02180 PHONE: 781.279.0180 RJOCONNELL.COM

OVERALL SITE PLAN

GROVE STREET RESIDENCES

FRANKLIN, MA



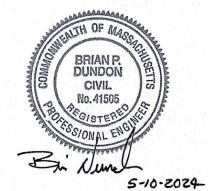
Copyright © 2021 R.J. O'Connell & Associates, Inc.

REVISED PER ZBA PEER REVIEW COMMENTS 02/02/2024 REVISED PER ONSITE SOIL TESTING RESULTS/NOI SUBMISSION 12/18/2023 DATE DATE REVISION

REVISION

SCALE: 1" = 40'

SUITE 105 BRAINTREE, MA 02184



GROVE STREET RESIDENCES

FRANKLIN, MA

- 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 HE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIG SAFE" (1-800-344-7233) AT LEAST 72 BUSINESS HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE WORK.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH MASSACHUSETTS EROSION AND SEDIMENTATION CONTROL GUIDELINES, FOR URBAN AND SUBURBAN AREAS MARCH 1997, THE U.S.D.A. S.C.S. EROSION AND SEDIMENT CONTROL IN SITE DEVELOPMENT, MASSACHUSETTS CONSERVATION GUIDE SEPTEMBER 1983. LOCAL MUNICIPAL REGULATIONS AND THE PERMIT REQUIREMENTS FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION RELATED ACTIVITIES AS OUTLINED IN THE MOST RECENT NPDES GENERAL PERMIT
- STOCKPILES SHALL BE SURROUNDED ON THEIR PERIMETERS WITH STAKED COMPOST WATTLES/SOCKS AND/OR SILTATION FENCE TO PREVENT AND/OR
- TOPS OF STOCKPILES SHALL BE COVERED IN SUCH A MANNER THAT STORMWATER DOES NOT INFILTRATE THE MATERIALS AND THEREBY RENDER THE SAME UNSUITABLE FOR FILL USE.
- EARTHWORK ACTIVITY ON THE SITE SHALL BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO THE TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON CIVIL EROSION CONTROL PLAN.
- FILTER BAGS SHALL BE PLACED UNDERNEATH THE GRATES OF EXISTING AND PROPOSED CATCH BASINS AND MAINTAINED AS OUTLINED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
- 8. ALL 3H:1V SLOPES OR STEEPER WILL BE STABILIZED WITH A CURLEX EROSION CONTROL MATTING BY AMERICAN EXCELSIOR COMPANY (OR ENGINEER
- THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES ADDITIONAL COMPOST WATTLES/SOCKS, FILTER BAGS AND EXTRA SILTATION FENCING FOR INSTALLATION AT THE DIRECTION OF THE ENGINEER TO MITIGATE ANY EMERGENCY CONDITION.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO CARRY OUT THE WORK INCLUDING BUT NOT LIMITED TO DEMOLITION.
- 11. THE LIMIT OF WORK LINE SHALL BE THE SAME AS THE LIMIT OF WORK LINE NECESSARY FOR GRADING PURPOSES, (I.E., THE GRADING LIMITS AROUND THE
- 12. THE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE CLEARED OF ALL VEGETATION. ROOTS, AND OTHER OBJECTIONABLE

- MATERIAL AS DETERMINED BY THE ENGINEER OR OWNER'S REPRESENTATIVE
- 13. THE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO THE PUBLIC RIGHT-OF-WAY MUST BE
- 14. CATCH BASINS WITH TEMPORARY FILTER BAGS MUST BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT. SEDIMENT WILL BE REMOVED FROM FILTER BAG IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 15. UPON COMPLETION OF ALL SITE WORK CONSTRUCTION, SITE CONTRACTOR SHALL INSPECT ALL ON-SITE CATCH BASINS, SWALES, SEDIMENT FOREBAYS AND BASINS, AND REMOVE ALL SEDIMENT AND TRASH DEBRIS THAT HAS ACCUMULATED WITHIN EACH BMP STRUCTURE DURING THE COURSE OF CONSTRUCTION. ALL ON-SITE CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE VACUUMED CLEAN PRIOR TO THE ISSUANCE OF AN OCCUPANCY
- 16. ALL CONSTRUCTION SHALL MEET OR EXCEED THE TOWN OF FRANKLIN'S ENGINEERING AND DPW DEPARTMENT SPECIFICATIONS.
- 17. TO MINIMIZE THE MIGRATION OF DUST AND SILT FROM THE CONSTRUCTION SITE, THE FOLLOWING MEASURES SHALL BE IMPLEMENTED AS REQUIRED: • SPRAY DISTURBED AREAS WITH WATER DURING DRY AND WINDY DAYS. • WASH WHEELS OF VEHICLES BEFORE LEAVING THE SITE.
- PERIODICALLY CLEAN SURROUNDING ROADWAYS NEAR THE ENTRANCE TO THE SITE. ALL VEHICLES HAULING MATERIAL TO AND FROM THE SITE SHALL PLACE SECURE COVERS OVER THEIR LOADS.
- 18. THE CONTRACTOR SHALL BE AWARE THAT THE ON-SITE SOILS AT THIS SITE MAKE IT PARTICULARLY SUSCEPTIBLE TO SOIL EROSION AND SENSITIVE TO IT'S CONSEQUENCES. IT SHOULD BE NOTED THAT THE EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS DEPICT THE MINIMUM REQUIRED AND ARE REPRESENTATIVE OF A SINGLE STAGE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITING, RELOCATION AND AUGMENTATION OF EROSION CONTROL DEVICES AS THE PROJECT PROGRESSES AND AS SITE DRAINAGE CONDITIONS CHANGE.
- 19. THE CONTRACTOR SHALL ANTICIPATE AND MODIFY EROSION CONTROL MEASURES BASED ON PAST AND CURRENT WEATHER CONDITIONS AND
- 20. THE CONTRACTOR SHALL MINIMIZE THE AREA OF DISTURBED SOIL. EFFORTS SHALL BE MADE TO LIMIT THE TIME OF EXPOSURE OF DISTURBED AREAS.
- 21. THE CONTRACTOR SHALL NOTIFY THE TOWN OF FRANKLIN PLANNING AND CONSERVATION DEPARTMENT AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY SITEWORK AND BEFORE EACH OF THE FOLLOWING:
- INSTALLATION OF SEDIMENT AND EROSION CONTROL MEASURES.
- START OF CONSTRUCTION. COMPLETION OF SITE CLEARING
- COMPLETION OF ROUGH GRADING. INSTALLATION OF STORMWATER CONTROLS
- CLOSE OF THE CONSTRUCTION SEASON. COMPLETION OF FINAL LANDSCAPING.
- 22. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES AT THE SITE, THE CONTRACTOR SHALL ENGAGE AN INDIVIDUAL WITH SPECIFIC PROFESSIONAL

- TRAINING AND EXPERTISE IN EROSION AND SEDIMENT CONTROL. THE EROSION CONTROL MONITOR SHALL PREPARE A WEEKLY REPORT WHICH SHALL BE KEPT ON SITE AT ALL TIMES AND SHALL BE SHOWN TO LOCAL, STATE AND FEDERAL AGENTS UPON REQUEST. THIS REPORT SHALL INDICATE THE STATUS OF THE EROSION CONTROLS AND ANY MAINTENANCE REQUIRED AND PERFORMED. THIS REPORT SHALL CONFORM TO THE REQUIREMENTS OF THE EPA'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR DISCHARGE FROM CONSTRUCTION ACTIVITIES.
- 23. THE LOCATION OF COMPOST WATTLES/SOCKS AND FILTER BAGS SHALL BE FIELD VERIFIED DURING SITE PREPARATION OPERATIONS BY THE ENGINEER AT
- 24. ANY DEWATERING ACTIVITIES PERFORMED IN CONJUNCTION WITH CONSTRUCTING THE SITE SHALL MAKE USE OF A SETTLING POND OR SIMILAR DEVICE TO REMOVE SEDIMENT BEFORE WATER IS RELEASED. THERE SHALL BE NO DIRECT DISCHARGE OF WATER TO CATCH BASINS AND/OR THE MUNICIPAL
 - 25. AFTER CONSTRUCTION STABILIZATION HAS OCCURRED, THE CONTRACTOR SHALL CLEAN AND REMOVE A MINIMUM OF 18" INCHES FROM THE BOTTOM OF THE TEMPORARY SEDIMENTATION BASIN WHERE PROPOSED STORMWATER BASIN-1 IS TO BE CONSTRUCTED. AS NOTED ON C-1A, THE BOTTOM OF THE TEMPORARY SEDIMENTATION BASIN AT THIS LOCATION SHALL BE SET 1-FOOT ABOVE THE BOTTOM OF PROPOSED STORMWATER BASIN-1 TO ENSURE THE UNDERLYING SOIL IS NOT ADVERSELY IMPACTED. THE EXCAVATION TO REMOVE THE BOTTOM ONE FOOT OF SOIL, AFTER STABILZATION, SHALL BE PERFORMED USING LIGHT EARTH-MOVING EQUIPMENT. ADDITIONALLY, THE PROPOSED CRUSHED STONE PROPOSED AT THE BOTTOM OF STORMWATER BASIN-1 SHALL NOT BE INSTALLED UNTIL AFTER SITE STABILIZATION AND THE CLEANING/DREDGING OF THE TEMPORARY SEDIMENT BASIN.
- 26. WINTER CONSTRUCTION AND STABILIZATION THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 1 THROUGH APRIL 15

SEDIMENT BARRIERS: DURING FROZEN CONDITIONS, SEDIMENT BARRIERS MAY CONSIST OF EROSION CONTROL MIX BERMS OR ANY OTHER RECOGNIZED SEDIMENT BARRIERS AS FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF COMPOST WATTLES/SOCKS OR SILT FENCES.

PER 1000 SF OR 3 TONS/ACRE (TWICE THE NORMAL ACCEPTED RATE) AND SHALL BE PROPERLY ANCHORED. EROSION CONTROL MIX MUST BE APPLIED WITH A MINIMUM 4 INCH THICKNESS. MULCH SHALL NOT BE SPREAD ON TOP OF SNOW. THE SNOW WILL BE REMOVED DOWN TO A 1-INCH DEPTH OR LESS PRIOR TO APPLICATION. AFTER EACH DAY OF FINAL GRADING, THE AREA WILL BE PROPERLY STABILIZED WITH ANCHORED HAY OR STRAW OR EROSION CONTROL MATTING. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED OR ADEQUATELY ANCHORED SO THAT GROUND SURFACE IS NOT VISIBLE THROUGH THE MULCH. BETWEEN NOVEMBER 1 AND APRIL 15, ALL MULCH SHALL BE ANCHORED BY EITHER MULCH NETTING, ASPHALT EMULSION CHEMICAL, OR WOOD CELLULOSE FIBER. THE COVER WILL BE CONSIDERED SUFFICIENT WHEN THE GROUND SURFACE IS NOT VISIBLE THROUGH THE MULCH. AFTER NOVEMBER 1ST, MULCH AND ANCHORING OF ALL EXPOSED SOIL SHALL OCCUR AT THE END OF EACH WORKDAY DURING FINAL

SOIL STOCKPILING: STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A 4-INCH LAYER OF EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STOCKING AND REESTABLISHED PRIOR TO ANY RAINFALL OR

SEEDING: BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES FINISHED AREAS SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOOMED, FINAL GRADED WITH A UNIFORM SURFACE. THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. DORMANT SEEDING MAY THE MULCH OFF THE DISTURBED SOIL. BE PLACED PRIOR TO THE PLACEMENT OF MULCH OR EROSION CONTROL BLANKETS. IF DORMANT SEEDING IS USED FOR THE SITE, ALL DISTURBED AREAS SHALL

RECEIVE 4" OF LOAM AND SEED AT AN APPLICATION RATE OF 5 LBS/1000 SF. ALL AREAS SEEDED DURING THE WINTER WILL BE INSPECTED IN THE SPRING BY REPLACING LOAM, SEED AND MULCH. IF DORMANT SEEDING IS NOT USED FOR THE SITE, ALL DISTURBED AREAS SHALL BE RE-VEGETATED IN THE SPRING.

WINTER STABILIZATION OF DITCHES AND CHANNELS: ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15. ALL GRASS-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY SEPTEMBER 1. IF A DITCH OR CHANNEL IS NOT

GRASS-LINED BY SEPTEMBER 1, THEN ONE OF THE FOLLOWING ACTIONS MUST BE TAKEN TO STABILIZE THE DITCH: INSTALL A SOD LINING IN THE DITCH: A DITCH MUST BE LINED WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALL ATION INCLUDES: PINNING THE SOD TO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD ONTO AND UNDERLYING SOIL, WATERING THE SOD TO PROMOTE

ROOT GROWTH INTO THE DISTURBED SOIL, AND ANCHORING SOD AT THE BASE OF THE DITCH WITH JUTE OR PLASTIC MESH TO PREVENT THE SOD FROM SLOUGHING DURING FLOW CONDITIONS.

INSTALL A STONE LINING IN THE DITCH: A DITCH MUST BE LINED WITH STONE RIP RAP BY NOVEMBER 15. CONTACT REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE AND LINING THICKNESS NEEDED TO WITHSTAND THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHIN THE DITCH.

WINTER STABILIZATION OF DISTURBED SLOPES: ALL STONE-COVERED SLOPES GREATER THAN 15% MUST BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15. AND ALL SLOPES TO BE VEGETATED MUST BE SEEDED AND MULCHED BY SEPTEMBER 1. IF A SLOPE TO BE VEGETATED IS NOT STABILIZED BY SEPTEMBER 1, THEN ONE OF THE FOLLOWING ACTIONS MUST BE TAKEN TO STABILIZE THE SLOPE. TEMPORARY VEGETATION AND EROSION CONTROL MATS: BY OCTOBER 1 THE DISTURBED SLOPE MUST BE SEEDED WITH WINTER RYE AT A SEEDING RATE OF 3 LBS

COVER AT LEAST 75% OF THE SLOPE BY NOVEMBER 1, THEN THE CONTRACTOR WILL COVER THE SLOPE WITH A LAYER OF EROSION CONTROL MIX OR WITH STONE SOD: THE DISTURBED SLOPE MUST BE STABILIZED WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO

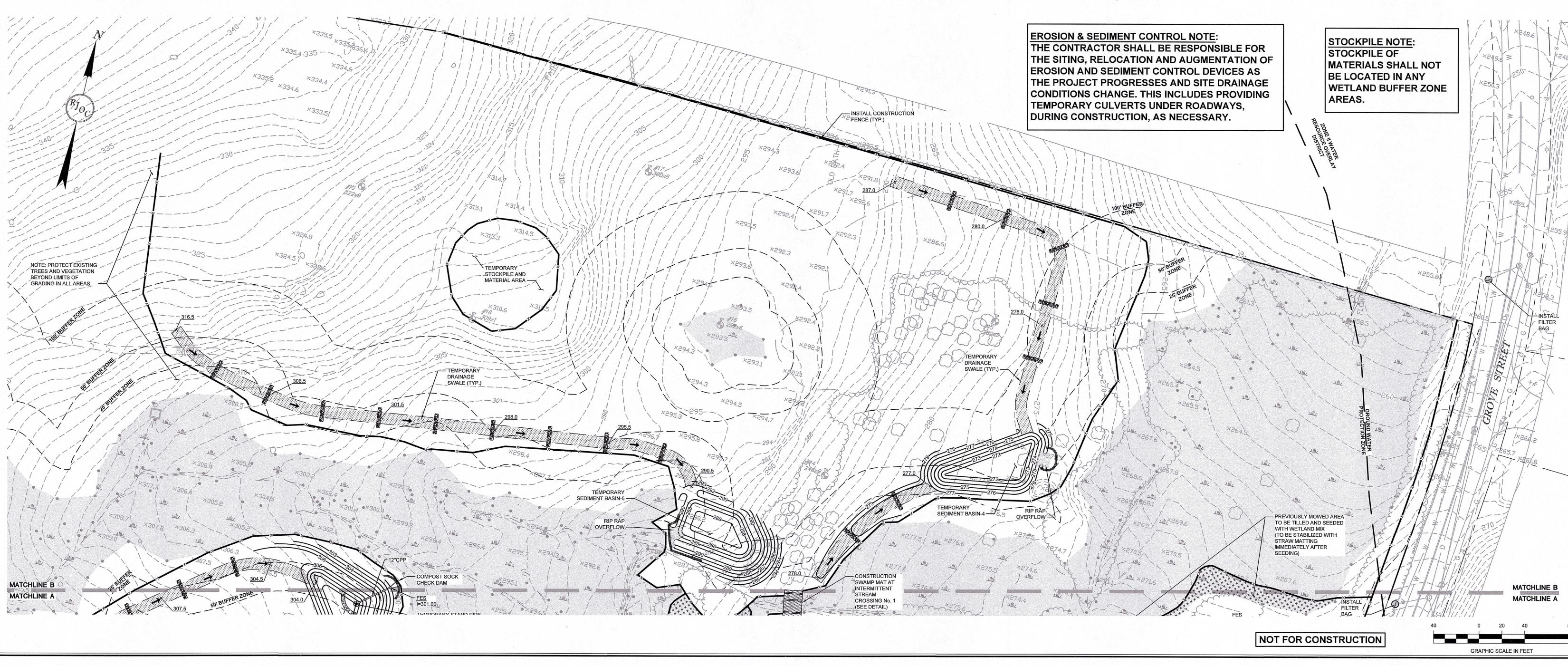
PER 1000 SF AND THEN INSTALL EROSION CONTROL MATS OR ANCHORED MULCH OVER THE SEEDING. IF THE RYE FAILS TO GROW AT LEAST 3 INCHES OR FAILS TO

GREATER THAN 33% OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE. MULCHING: ALL AREAS SHALL BE CONSIDERED TO BE DENUDED UNTIL SEEDED AND MULCHED. HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE OF 150 LB. EROSION CONTROL MIX: EROSION CONTROL MIX MUST BE PROPERLY INSTALLED BY NOVEMBER 15. THE CONTRACTOR WILL NOT USE EROSION CONTROL MIX TO STABILIZE SLOPES HAVING GRADES GREATER THAN 50% OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE. STONE RIP RAP: PLACE A LAYER OF STONE RIP RAP ON THE SLOPE BY NOVEMBER 15. CONTACT THE PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY ON THE SLOPE AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP

> WINTER STABILIZATION OF DISTURBED SOILS: BY SEPTEMBER 15, ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15% MUST BE SEEDED AND MULCHED. IF THE DISTURBED AREAS ARE NOT STABILIZED BY THIS DATE, THEN ONE OF THE FOLLOWING ACTIONS MUST BE TAKEN: TEMPORARY VEGETATION: BY OCTOBER 1. SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 LBS PER 1000 SF. LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1000 SF, AND ANCHOR THE MULCH WITH PLASTIC NETTING. MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST 3 INCHES OR FAILS TO COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 1, THEN MULCH THE AREA FOR WINTER PROTECTION AS DESCRIBED BELOW.

SOD: STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO

MULCH: BY NOVEMBER 15, MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 LBS PER 1000 SF ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. IMMEDIATELY AFTER APPLYING THE MULCH, ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING



PREPARED FOR:

Copyright © 2021 R.J. O'Connell & Associates, Inc

REVISION

REVISED PER CONCOM PEER REVIEW COMMENTS REVISED PER ZBA PEER REVIEW COMMENTS REVISED PER ZBA PEER REVIEW COMMENTS 02/02/2024 REVISED PER ONSITE SOIL TESTING RESULTS/NOI SUBMISSION 12/18/2023 REVISION

DESIGNED BY MAC DRAWN BY: MCR REVIEWED BY: BJM SCALE: 1" = 40'

FAIRFIELD GROVE STREET LLC

30 BRAINTREE HILL OFFICE PARK **SUITE 105** BRAINTREE, MA 02184

5-10-2024

RJO'CONNELL & ASSOCIATES, INC.

CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS 80 MONTVALE AVENUE, SUITE 201 STONEHAM, MA 02180

FRANKLIN, MA

PLAN

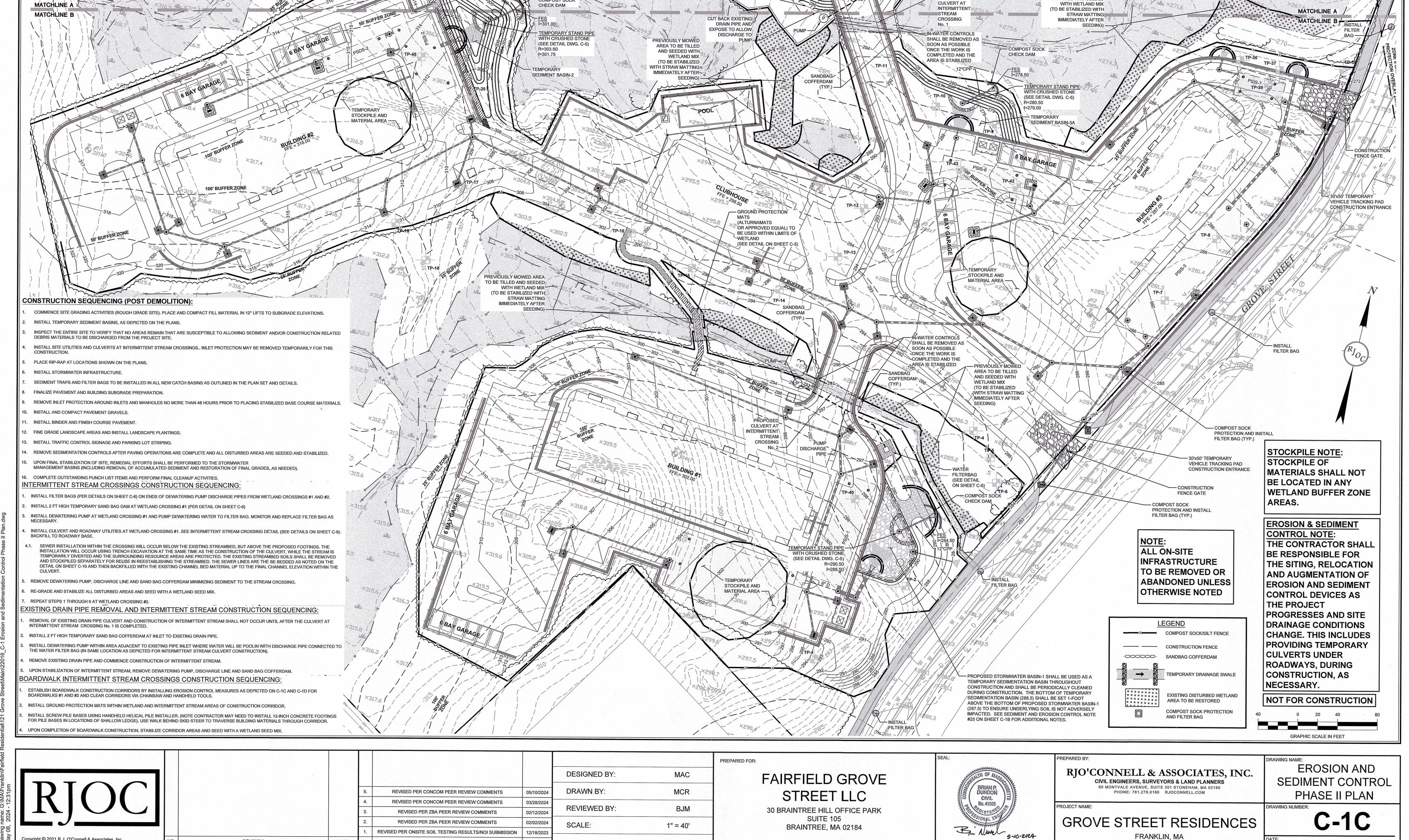
GROVE STREET RESIDENCES

Copyright © 2023 by R.J. O'Connell & Associates, Inc

PROJECT NO.: 22016

DEMOLITION AND

EROSION CONTROL



Copyright © 2021 R.J. O'Connell & Associates, Inc

REVISION

DATE

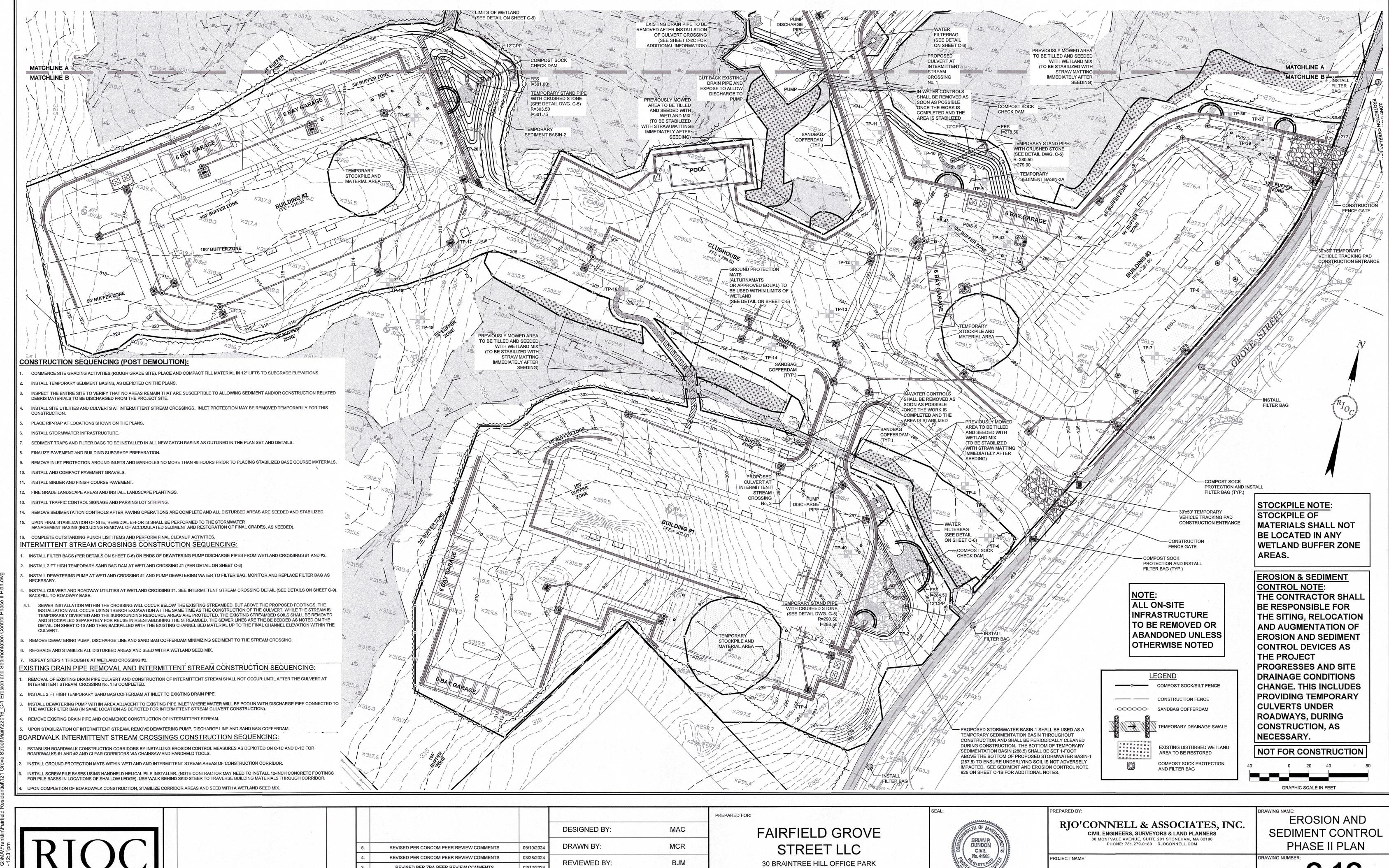
REVISION

DATE

PROJECT NO.: 22016

Copyright © 2023 by R.J. O'Connell & Associates, Inc.

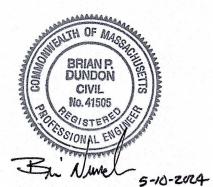
O BE TILLED AND SEEDED



Copyright © 2021 R.J. O'Connell & Associates, Inc.

REVISED PER ZBA PEER REVIEW COMMENTS 02/12/2024 REVISED PER ZBA PEER REVIEW COMMENTS 02/02/2024 SCALE: 1" = 40' REVISED PER ONSITE SOIL TESTING RESULTS/NOI SUBMISSION 12/18/2023 DATE DATE REVISION

SUITE 105 BRAINTREE, MA 02184



GROVE STREET RESIDENCES

FRANKLIN, MA

SEDIMENT AND EROSION CONTROL NOTES

- 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. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIG SAFE" (1-800-344-7233) AT LEAST 72 BUSINESS HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE WORK. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH MASSACHUSETTS EROSION AND SEDIMENTATION 16. ALL CONSTRUCTION SHALL MEET OR EXCEED THE TOWN OF FRANKLIN'S ENGINEERING AND DPW DEPARTMENT SPECIFICATIONS. CONTROL GUIDELINES, FOR URBAN AND SUBURBAN AREAS MARCH 1997, THE U.S.D.A. S.C.S. EROSION AND SEDIMENT CONTROL IN SITE DEVELOPMENT, MASSACHUSETTS CONSERVATION GUIDE SEPTEMBER 1983 LOCAL MUNICIPAL REGULATIONS AND THE PERMIT REQUIREMENTS FOR STORMWATER
- STOCKPILES SHALL BE SURROUNDED ON THEIR PERIMETERS WITH STAKED COMPOST WATTLES/SOCKS AND/OR SILTATION FENCE TO PREVENT AND/OR CONTROL SILTATION AND EROSION
- TOPS OF STOCKPILES SHALL BE COVERED IN SUCH A MANNER THAT STORMWATER DOES NOT INFILTRATE THE MATERIALS AND THEREBY RENDER THE
- EARTHWORK ACTIVITY ON THE SITE SHALL BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO THE TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON CIVIL EROSION CONTROL PLAN.

DISCHARGES ASSOCIATED WITH CONSTRUCTION RELATED ACTIVITIES AS OUTLINED IN THE MOST RECENT NPDES GENERAL PERMIT

- FILTER BAGS SHALL BE PLACED UNDERNEATH THE GRATES OF EXISTING AND PROPOSED CATCH BASINS AND MAINTAINED AS OUTLINED IN THE
- ALL 3H:1V SLOPES OR STEEPER WILL BE STABILIZED WITH A CURLEX EROSION CONTROL MATTING BY AMERICAN EXCELSIOR COMPANY (OR ENGINEER APPROVED EQUAL) PRIOR TO HYDROSEEDING AND PROTECTED FROM EROSION.
- THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES ADDITIONAL COMPOST WATTLES/SOCKS, FILTER BAGS AND EXTRA SILTATION FENCING FOR INSTALLATION AT THE DIRECTION OF THE ENGINEER TO MITIGATE ANY EMERGENCY CONDITION.
- 0. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO CARRY OUT THE WORK
- 1. THE LIMIT OF WORK LINE SHALL BE THE SAME AS THE LIMIT OF WORK LINE NECESSARY FOR GRADING PURPOSES, (I.E., THE GRADING LIMITS AROUND THE PERIMETER OF THE PROJECT AREA)

- MATERIAL AS DETERMINED BY THE ENGINEER OR OWNER'S REPRESENTATIVE
- 13. THE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO THE PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 14. CATCH BASINS WITH TEMPORARY FILTER BAGS MUST BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT. SEDIMENT WILL BE REMOVED FROM FILTER BAG IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- UPON COMPLETION OF ALL SITE WORK CONSTRUCTION, SITE CONTRACTOR SHALL INSPECT ALL ON-SITE CATCH BASINS, SWALES, SEDIMENT FOREBAYS AND BASINS, AND REMOVE ALL SEDIMENT AND TRASH DEBRIS THAT HAS ACCUMULATED WITHIN EACH BMP STRUCTURE DURING THE COURSE OF CONSTRUCTION. ALL ON-SITE CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE VACUUMED CLEAN PRIOR TO THE ISSUANCE OF AN OCCUPANCY
- 17. TO MINIMIZE THE MIGRATION OF DUST AND SILT FROM THE CONSTRUCTION SITE, THE FOLLOWING MEASURES SHALL BE IMPLEMENTED AS REQUIRED: SPRAY DISTURBED AREAS WITH WATER DURING DRY AND WINDY DAYS. WASH WHEELS OF VEHICLES BEFORE LEAVING THE SITE. PERIODICALLY CLEAN SURROUNDING ROADWAYS NEAR THE ENTRANCE TO THE SITE.

18. THE CONTRACTOR SHALL BE AWARE THAT THE ON-SITE SOILS AT THIS SITE MAKE IT PARTICULARLY SUSCEPTIBLE TO SOIL FROSION AND SENSITIVE TO IT'S

CONSEQUENCES. IT SHOULD BE NOTED THAT THE EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS DEPICT THE MINIMUM REQUIRED AND ARE REPRESENTATIVE OF A SINGLE STAGE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITING, RELOCATION AND AUGMENTATION

ALL VEHICLES HAULING MATERIAL TO AND FROM THE SITE SHALL PLACE SECURE COVERS OVER THEIR LOADS

OF EROSION CONTROL DEVICES AS THE PROJECT PROGRESSES AND AS SITE DRAINAGE CONDITIONS CHANGE

ANTICIPATED CONSTRUCTION ACTIVITIES. 20. THE CONTRACTOR SHALL MINIMIZE THE AREA OF DISTURBED SOIL. EFFORTS SHALL BE MADE TO LIMIT THE TIME OF EXPOSURE OF DISTURBED AREAS.

19. THE CONTRACTOR SHALL ANTICIPATE AND MODIFY EROSION CONTROL MEASURES BASED ON PAST AND CURRENT WEATHER CONDITIONS AND

- 21. THE CONTRACTOR SHALL NOTIFY THE TOWN OF FRANKLIN PLANNING AND CONSERVATION DEPARTMENT AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY SITEWORK AND BEFORE EACH OF THE FOLLOWING
- INSTALLATION OF SEDIMENT AND EROSION CONTROL MEASURES.
- START OF CONSTRUCTION. • COMPLETION OF SITE CLEARING.
- COMPLETION OF ROUGH GRADING. • INSTALLATION OF STORMWATER CONTROLS
- CLOSE OF THE CONSTRUCTION SEASON. • COMPLETION OF FINAL LANDSCAPING.

- TRAINING AND EXPERTISE IN EROSION AND SEDIMENT CONTROL. THE EROSION CONTROL MONITOR SHALL PREPARE A WEEKLY REPORT WHICH SHALL BE RE-VEGETATED IN THE SPRING. KEPT ON SITE AT ALL TIMES AND SHALL BE SHOWN TO LOCAL, STATE AND FEDERAL AGENTS UPON REQUEST. THIS REPORT SHALL INDICATE THE STATUS OF THE EROSION CONTROLS AND ANY MAINTENANCE REQUIRED AND PERFORMED. THIS REPORT SHALL CONFORM TO THE REQUIREMENTS OF THE EPA'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR DISCHARGE FROM CONSTRUCTION ACTIVITIES
- 23. THE LOCATION OF COMPOST WATTLES/SOCKS AND FILTER BAGS SHALL BE FIELD VERIFIED DURING SITE PREPARATION OPERATIONS BY THE ENGINEER AT
- 24. ANY DEWATERING ACTIVITIES PERFORMED IN CONJUNCTION WITH CONSTRUCTING THE SITE SHALL MAKE USE OF A SETTLING POND OR SIMILAR DEVICE TO REMOVE SEDIMENT BEFORE WATER IS RELEASED. THERE SHALL BE NO DIRECT DISCHARGE OF WATER TO CATCH BASINS AND/OR THE MUNICIPAL
- 25. AFTER CONSTRUCTION STABILIZATION HAS OCCURRED, THE CONTRACTOR SHALL CLEAN AND REMOVE A MINIMUM OF 18" INCHES FROM THE BOTTOM OF THE TEMPORARY SEDIMENTATION BASIN WHERE PROPOSED STORMWATER BASIN-1 IS TO BE CONSTRUCTED. AS NOTED ON C-1A. THE BOTTOM OF THE TEMPORARY SEDIMENTATION BASIN AT THIS LOCATION SHALL BE SET 1-FOOT ABOVE THE BOTTOM OF PROPOSED STORMWATER BASIN-1 TO ENSURE THE UNDERLYING SOIL IS NOT ADVERSELY IMPACTED. ADDITIONALLY. THE PROPOSED CRUSHED STONE PROPOSED AT THE BOTTOM OF STORMWATER BASIN-1 SHALL NOT BE INSTALLED UNTIL AFTER SITE STABILIZATION AND THE CLEANING/DREDGING OF THE TEMPORARY SEDIMENT BASIN.
- 26. WINTER CONSTRUCTION AND STABILIZATION
 THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 1 THROUGH APRIL 15

SEDIMENT BARRIERS: DURING FROZEN CONDITIONS, SEDIMENT BARRIERS MAY CONSIST OF EROSION CONTROL MIX BERMS OR ANY OTHER RECOGNIZED SEDIMENT BARRIERS AS EROZEN SOIL PREVENTS THE PROPER INSTALLATION OF COMPOST WATTLES/SOCKS OR SILT FENCES.

PER 1000 SF OR 3 TONS/ACRE (TWICE THE NORMAL ACCEPTED RATE) AND SHALL BE PROPERLY ANCHORED. EROSION CONTROL MIX MUST BE APPLIED WITH A MINIMUM 4 INCH THICKNESS. MULCH SHALL NOT BE SPREAD ON TOP OF SNOW. THE SNOW WILL BE REMOVED DOWN TO A 1-INCH DEPTH OR LESS PRIOR TO APPLICATION. AFTER EACH DAY OF FINAL GRADING, THE AREA WILL BE PROPERLY STABILIZED WITH ANCHORED HAY OR STRAW OR EROSION CONTROL MATTING. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED OR ADEQUATELY ANCHORED SO THAT GROUND SURFACE IS NOT VISIBLE THROUGH THE MULCH. BETWEEN NOVEMBER 1 AND APRIL 15, ALL MULCH SHALL BE ANCHORED BY EITHER MULCH NETTING, ASPHALT EMULSION CHEMICAL, OR WOOD CELLULOSE FIBER. THE COVER WILL BE CONSIDERED SUFFICIENT WHEN THE GROUND SURFACE IS NOT VISIBLE HROUGH THE MULCH. AFTER NOVEMBER 1ST, MULCH AND ANCHORING OF ALL EXPOSED SOIL SHALL OCCUR AT THE END OF EACH WORKDAY DURING FINAL

SOIL STOCKPILING: STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A 4-INCH LAYER OF EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STOCKING AND REESTABLISHED PRIOR TO ANY RAINFALL OR

SEEDING: BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES FINISHED AREAS SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOOMED, FINAL GRADED WITH A UNIFORM SURFACE, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. DORMANT SEEDING MAY BE PLACED PRIOR TO THE PLACEMENT OF MULCH OR EROSION CONTROL BLANKETS. IF DORMANT SEEDING IS USED FOR THE SITE, ALL DISTURBED AREAS SHALL

WINTER STABILIZATION OF DITCHES AND CHANNELS: ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15. ALL GRASS-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY SEPTEMBER 1. IF A DITCH OR CHANNEL IS NOT GRASS-LINED BY SEPTEMBER 1. THEN ONE OF THE FOLLOWING ACTIONS MUST BE TAKEN TO STABILIZE THE DITCH

INSTALL A SOD LINING IN THE DITCH: A DITCH MUST BE LINED WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES: PINNING THE SOD INTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD ONTO AND UNDERLYING SOIL, WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL, AND ANCHORING SOD AT THE BASE OF THE DITCH WITH JUTE OR PLASTIC MESH TO PREVENT THE SOD FROM

INSTALL A STONE LINING IN THE DITCH: A DITCH MUST BE LINED WITH STONE RIP RAP BY NOVEMBER 15. CONTACT REGISTERED PROFESSIONAL ENGINEER TO

WINTER STABILIZATION OF DISTURBED SLOPES: ALL STONE-COVERED SLOPES GREATER THAN 15% MUST BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15. AND ALL SLOPES TO BE VEGETATED MUST BE SEEDED AND MULCHED BY SEPTEMBER 1. IF A SLOPE TO BE VEGETATED IS NOT STABILIZED BY SEPTEMBER 1, THEN ONE OF THE FOLLOWING ACTIONS MUST BE TAKEN TO STABILIZE THE SLOPE.

FERMINE THE STONE SIZE AND LINING THICKNESS NEEDED TO WITHSTAND THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHIN THE DITCH.

PER 1000 SF AND THEN INSTALL EROSION CONTROL MATS OR ANCHORED MULCH OVER THE SEEDING. IF THE RYE FAILS TO GROW AT LEAST 3 INCHES OR FAILS TO COVER AT LEAST 75% OF THE SLOPE BY NOVEMBER 1, THEN THE CONTRACTOR WILL COVER THE SLOPE WITH A LAYER OF EROSION CONTROL MIX OR WITH STONE SOD: THE DISTURBED SLOPE MUST BE STABILIZED WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS. ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO

PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE CONTRACTOR WILL NOT USE LATE-SEASON SOD INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 33% OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE MULCHING: ALL AREAS SHALL BE CONSIDERED TO BE DENUDED UNTIL SEEDED AND MULCHED. HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE OF 150 LB. EROSION CONTROL MIX: EROSION CONTROL MIX MUST BE PROPERLY INSTALLED BY NOVEMBER 15. THE CONTRACTOR WILL NOT USE EROSION CONTROL MIX TO

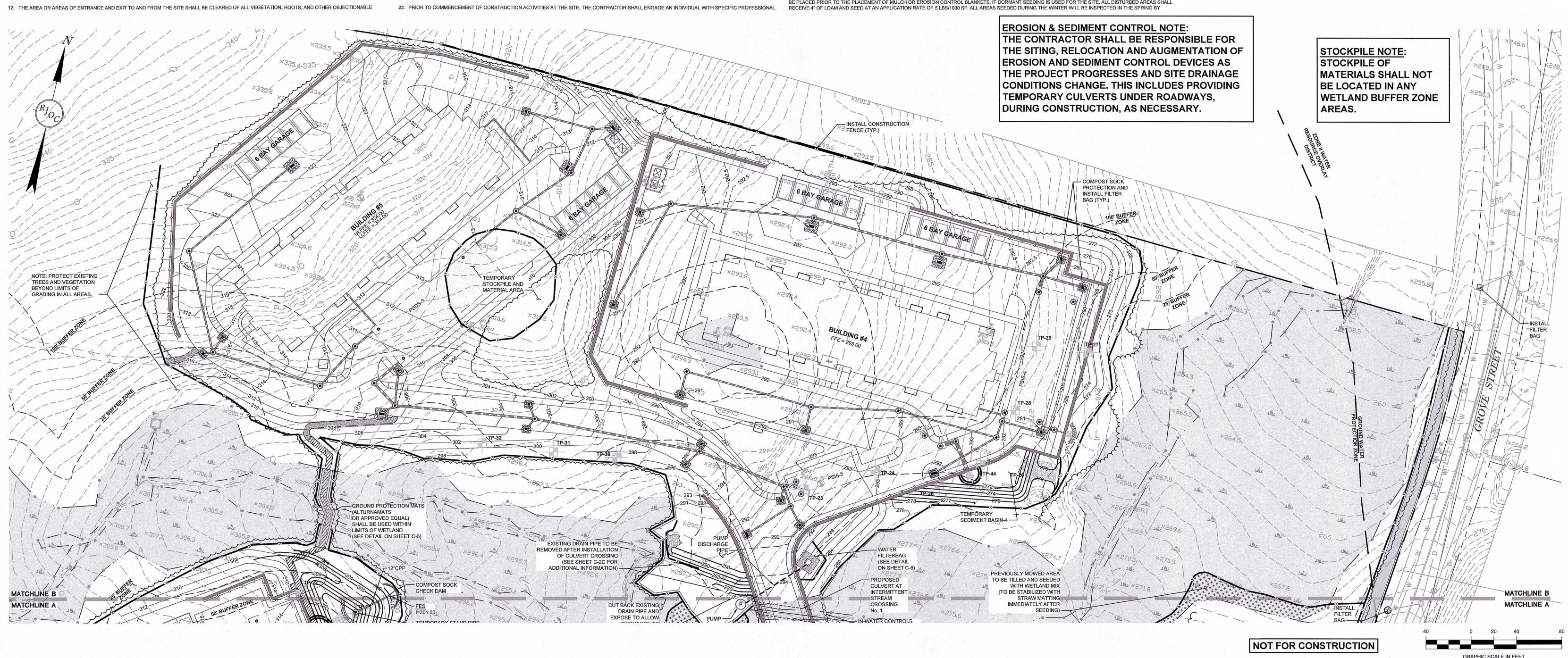
TEMPORARY VEGETATION AND EROSION CONTROL MATS: BY OCTOBER 1 THE DISTURBED SLOPE MUST BE SEEDED WITH WINTER RYE AT A SEEDING RATE OF 3 LBS

STABILIZE SLOPES HAVING GRADES GREATER THAN 50% OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE. STONE RIP RAP: PLACE A LAYER OF STONE RIP RAP ON THE SLOPE BY NOVEMBER 15. CONTACT THE PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY ON THE SLOPE AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP

WINTER STABILIZATION OF DISTURBED SOILS: BY SEPTEMBER 15, ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15% MUST BE SEEDED AND MULCHED. IF THE DISTURBED AREAS ARE NOT STABILIZED BY THIS DATE, THEN ONE OF THE FOLLOWING ACTIONS MUST BE TAKEN: TEMPORARY VEGETATION: BY OCTOBER 1, SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 LBS PER 1000 SF, LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1000 SF, AND ANCHOR THE MULCH WITH PLASTIC NETTING. MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST 3 INCHES OR FAILS TO COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 1, THEN MULCH THE AREA FOR

WINTER PROTECTION AS DESCRIBED BELOW. SOD: STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.

MULCH: BY NOVEMBER 15, MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 LBS PER 1000 SF ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. IMMEDIATELY AFTER APPLYING THE MULCH, ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OFF THE DISTURBED SOIL



REVISION

Copyright © 2021 R.J. O'Connell & Associates, Inc.

REVISED PER CONCOM PEER REVIEW COMMENT REVISED PER ZBA PEER REVIEW COMMENT REVISED PER ZBA PEER REVIEW COMMENTS REVISED PER ONSITE SOIL TESTING RESULTS/NOI SUBMISSION 12/18/2023 REVISION

PREPARED FOR: MAC MCR **BJM** 1" = 40'

DESIGNED BY:

REVIEWED BY:

DRAWN BY:

SCALE:

FAIRFIELD GROVE STREET LLC 30 BRAINTREE HILL OFFICE PARK

SUITE 105 BRAINTREE, MA 02184



RIO'CONNELL & ASSOCIATES, INC.

CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS 80 MONTVALE AVENUE, SUITE 201 STONEHAM, MA 02180

PHONE: 781.279.0180 RJOCONNELL.COM

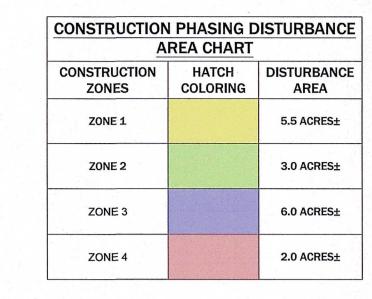
FRANKLIN, MA

EROSION AND SEDIMENT CONTROL PHASE II PLAN

GROVE STREET RESIDENCES

PROJECT NO.: 2201

Copyright © 2023 by R.J. O'Connell & Associates, Inc.



CONSTRUCTION PHASING SEQUENCE:

CLEAR AND GRUBBING PHASE:

- 1. INSTALL PERIMETER SEDIMENTATION CONTROL BARRIERS AND CONSTRUCTION SWAMP MATS IN THE LOCATIONS SHOWN ON DEMOLITION AND EROSION CONTROL PLANS. SEDIMENTATION CONTROL BARRIERS TO BE INSTALLED PER DETAILS.
- 2. INSTALL INLET/OUTLET PROTECTION AT THE LOCATIONS OF ALL GRATE INLETS, AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES.
- 3. INSTALL TREE PROTECTION AND CONSTRUCTION FENCING AS SHOWN ON DEMOLITION AND EROSION CONTROL PLANS.
- 5. BEGIN TERMINATION OF EXISTING BUILDING UTILITY SERVICES IN ACCORDANCE WITH THE UTILITY COMPANY REQUIREMENTS HAVING AUTHORITY.
- BEGIN DEMOLITION OF EXISTING BUILDINGS.
- STOCKPILE BUILDING DEBRIS FOR OFF-SITE DISPOSAL.
- 8. PERFORM TREE CUTTING AND CLEARING OF LAND WITHIN THE OVERALL LIMITS OF WORK.
- 9. PERFORM GRUBBING WITHIN THE DESIGNATED CONSTRUCTION ZONE WHERE WORK TO COMMENCE.

ROUGH GRADE PHASE:

- 1. COMMENCE SITE GRADING ACTIVITIES (ROUGH GRADE SITE). PLACE AND COMPACT FILL MATERIAL IN 12" LIFTS TO SUBGRADE ELEVATIONS.
- 2. INSTALL TEMPORARY SEDIMENT BASINS, AS DEPICTED ON THE DEMOLITION AND EROSION CONTROL PLANS.
- INSPECT THE ENTIRE SITE TO VERIFY THAT NO AREAS REMAIN THAT ARE SUSCEPTIBLE TO ALLOWING SEDIMENT AND/OR CONSTRUCTION RELATED DEBRIS MATERIALS TO BE DISCHARGED FROM THE PROJECT SITE.
- 4. INSTALL TEMPORARY STREAM DIVERSION CONSTRUCTION ACTIVITIES.
- 5. INSTALL SITE UTILITIES AND CULVERT AT STREAM CROSSINGS. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION. REMOVE TEMPORARY STREAM DIVERSION ACTIVITIES AFTER CULVERT AND UTILITIES ARE INSTALLED AT CROSSINGS.
- INSTALL BOARDWALKS.
- 7. PLACE RIP-RAP AT LOCATIONS SHOWN ON THE PLANS.
- 8. INSTALL STORMWATER INFRASTRUCTURE.
- INSTALL SEDIMENT TRAPS AND FILTER BAGS IN ALL NEW CATCH BASINS AS OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLANS.

FINAL GRADE PHASE:

- 1. FINALIZE PAVEMENT AND BUILDING SUBGRADE PREPARATION.
- 2. COMMENCE VERTICAL CONSTRUCTION OF BUILDINGS.
- 3. REMOVE INLET PROTECTION AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE MATERIALS.
- 4. INSTALL AND COMPACT PAVEMENT GRAVELS.
- INSTALL BINDER AND FINISH COURSE PAVEMENT.

SITE CONSTRUCTION COMPLETION PHASE:

- 1. FINE GRADE LANDSCAPE AREAS AND INSTALL LANDSCAPE PLANTINGS.
- 2. INSTALL TRAFFIC CONTROL SIGNAGE AND PARKING LOT STRIPING.
- 3. REMOVE SEDIMENTATION CONTROLS AFTER PAVING OPERATIONS ARE COMPLETE AND ALL DISTURBED AREAS ARE SEEDED AND STABILIZED.
- 4. UPON FINAL STABILIZATION OF SITE, REMEDIAL EFFORTS SHALL BE PERFORMED TO THE STORMWATER MANAGEMENT BASINS (INCLUDING REMOVAL OF ACCUMULATED SEDIMENT AND RESTORATION OF FINAL GRADES, AS NEEDED).

CONSTRUCTION PHASING NOTES:

- 1. CONSTRUCTION PHASING SEQUENCE TO OCCUR IN EACH DESIGNATED CONSTRUCTION ZONE (1-4) IN ASCENDING ORDER WHEN POSSIBLE. HOWEVER WORK MAY OCCUR IN MULTIPLE CONSTRUCTION ZONES CONCURRENTLY TO ALLOW FOR CUT AND FILL NEEDS THROUGHOUT THE SITE
- 2. GRUBBING WITHIN EACH DESIGNATED CONSTRUCTION ZONE SHALL NOT OCCUR UNTIL WORK IS PLANNED TO COMMENCE WITHIN THE ZONE.

NOT FOR CONSTRUCTION

GRAPHIC SCALE IN FEET

DRAWING NAME:

Copyright © 2021 R.J. O'Connell & Associates, Inc.

DESIGNED BY: DRAWN BY: **REVIEWED BY:** REVISED PER CONCOM PEER REVIEW COMMENTS 05/10/2024 SCALE: REVISED PER CONCOM PEER REVIEW COMMENTS 03/28/2024 DATE DATE REVISION REVISION

PREPARED FOR:

MAC

MCR

BJM

1" = 80'

FAIRFIELD GROVE STREET LLC

30 BRAINTREE HILL OFFICE PARK SUITE 105 BRAINTREE, MA 02184



RJO'CONNELL & ASSOCIATES, INC. CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS

FRANKLIN, MA

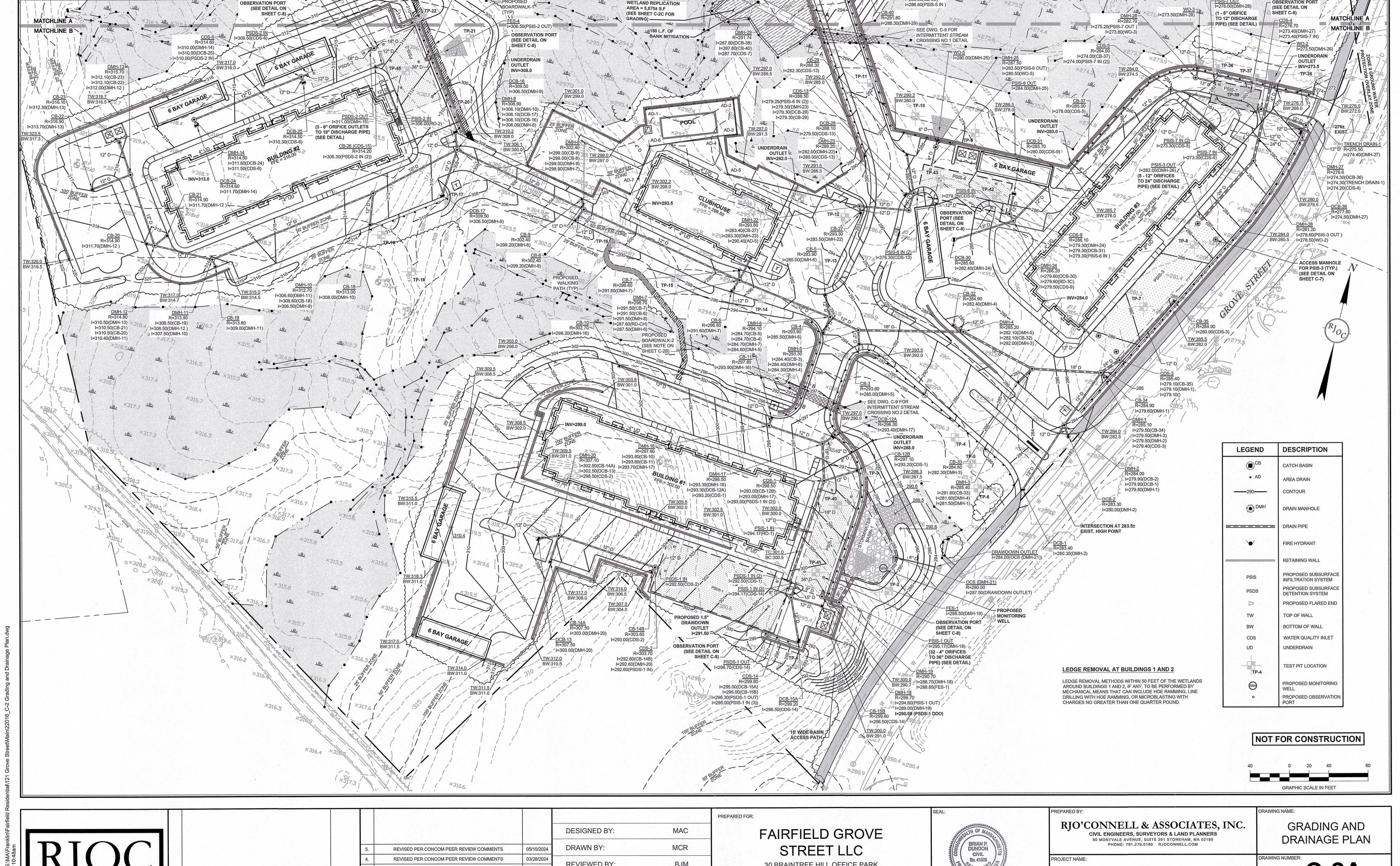
80 MONTVALE AVENUE, SUITE 201 STONEHAM, MA 02180 PHONE: 781.279.0180 RJOCONNELL.COM

CONSTRUCTION PHASING PLAN

GROVE STREET RESIDENCES

PROJECT NO.: 22016

Copyright © 2023 by R.J. O'Connell & Associates, Inc.

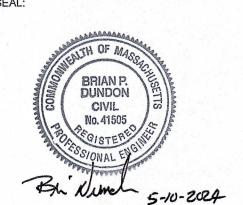


Copyright © 2021 R.J. O'Connell & Associates, Inc.

REVISION

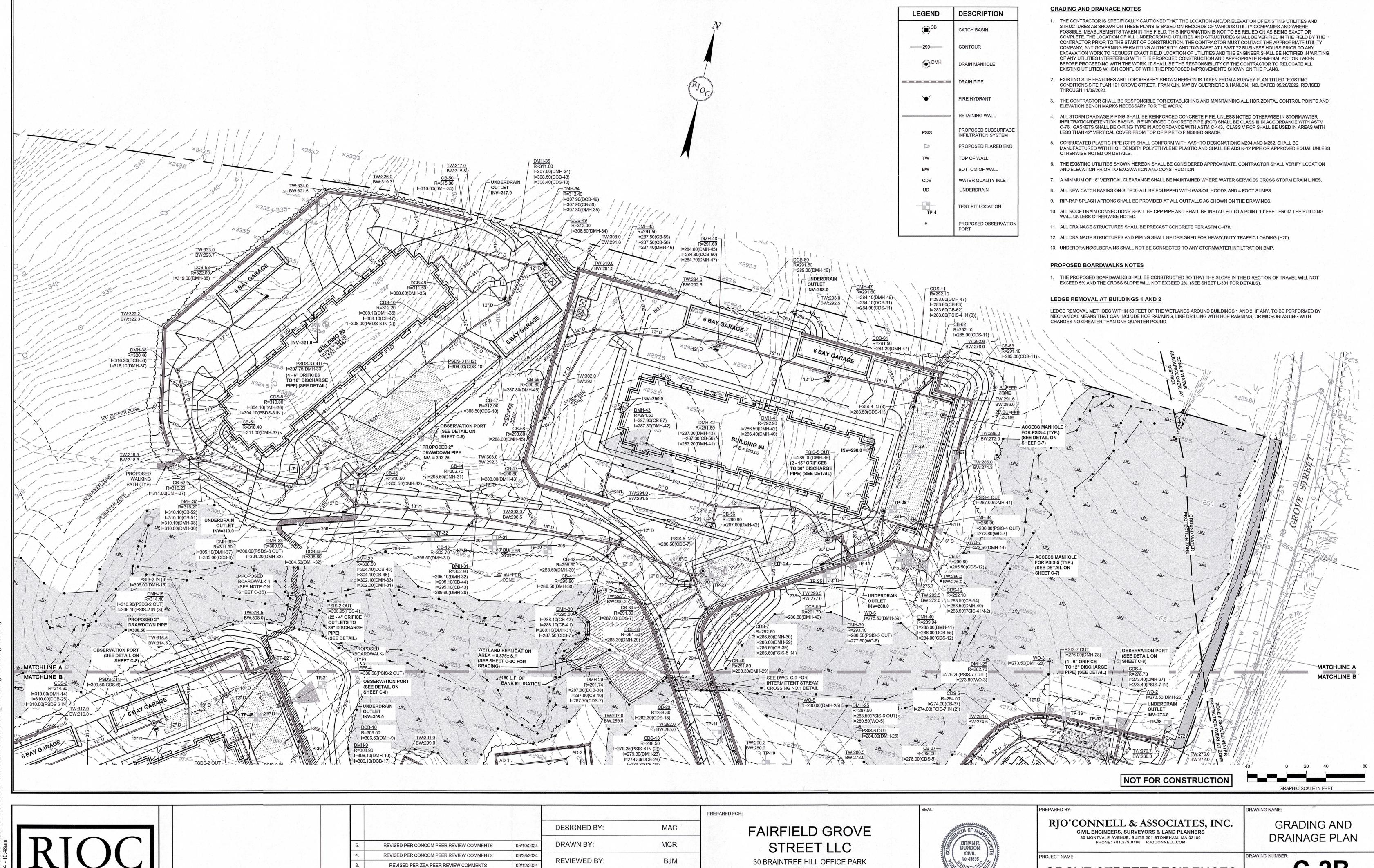
REVIEWED BY: BJM REVISED PER ZBA PEER REVIEW COMMENTS 02/12/2024 REVISED PER ZBA PEER REVIEW COMMENTS 02/02/2024 SCALE: 1" = 40' REVISED PER ONSITE SOIL TESTING RESULTS/NOI SUBMISSION 12/18/2023 DATE DATE

30 BRAINTREE HILL OFFICE PARK SUITE 105 BRAINTREE, MA 02184



GROVE STREET RESIDENCES

FRANKLIN, MA



REVISED PER ZBA PEER REVIEW COMMENTS

REVISED PER ONSITE SOIL TESTING RESULTS/NOI SUBMISSION

REVISION

DATE

REVISION

Copyright © 2021 R.J. O'Connell & Associates, Inc.

02/02/2024

12/18/2023

SCALE:

1" = 40'

SUITE 105 BRAINTREE, MA 02184



GROVE STREET RESIDENCES

FRANKLIN, MA

GENERAL WETLAND & STREAM DAYLIGHTING REPLICATION NOTES

THE WETLAND SCIENTIST SHALL REVIEW THE PROPOSED WETLAND REPLICATION AREA FOR EXISTING, NATIVE WOODY PLANTS TO RETAIN (TO THE EXTENT FEASIBLE) AND MARK THEM IN THE FIELD FOR PRESERVATION.

THE WETLAND SCIENTIST SHALL CONTACT THE TOWN OF FRANKLIN CONSERVATION DEPARTMENT FOR REVIEW AND APPROVAL OF FINAL GRADES AND PROPOSED PLANTING STOCK PRIOR TO PLANTING.

PRIOR TO CONSTRUCTION OF THE WETLAND REPLICATION AREA THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER TO PERFORM SOIL TESTING WITHIN THE FOOTPRINT OF THE WETLAND REPLICATION AREA TO VERIFY THE ESTIMATED SEASONAL HIGH GROUNDWATER ELEVATION. THE RESULTS SHALL BE PROVIDED TO THE CONSERVATION COMMISSION OR ITS AGENT TO DEPICT SUFFICIENT HYDROLOGY IS PRESENT. IF ANY MODIFICATIONS ARE REQUIRED BASED ON SOIL TESTING RESULTS, THE DESIGN ENGINEER SHALL SUBMIT A REVISED DESIGN FOR REVIEW AND APPROVAL BY THE COMMISSION OR ITS AGENT.

WETLAND REPLICATION AND STREAM DAYLIGHTING EFFORTS SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY. AN AS-BUILT PLAN AND LETTER FROM THE WETLAND SCIENTIST CERTIFYING COMPLETION OF THESE EFFORTS, PER THE APPROVED PLANS, SHALL BE SUBMITTED TO THE CONSERVATION COMMISSION AND ITS AGENT FOR REVIEW.

1 REPLICATION AREA CONSTRUCTION SEQUENCE

THIS SECTION DESCRIBES THE SEQUENCE OF CONSTRUCTION ACTIVITIES AND PROVIDES INFORMATION REGARDING GRADING. PLANTING AND SEEDING. IT ALSO CONTAINS EROSION AND SEDIMENTATION CONTROL MEASURES THAT WILL BE UTILIZED THROUGHOU CONSTRUCTION ACTIVITIES. THE CONSERVATION COMMISSION WILL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF WORK, TO SCHEDUL NSPECTION OF THE WORK, TO DISCUSS DEPTH OF SOIL REMOVAL, AND RE-GRADING OF EXCESS SOIL WITHIN UPLAND AREAS. THE PW WILL DOCUMENT CONDITIONS RELATIVE TO VEGETATION COMPOSITION AND STRUCTURE, TOPOGRAPHY, AND SOILS BOTH BEFORE AN AFTER RESTORATION.

ROSION AND SEDIMENT CONTROLS

PRIOR TO THE COMMENCEMENT OF THE REPLICATION AREA CONSTRUCTION, EROSION AND SEDIMENTATION CONTROLS (I.E., COMPOS FILTER SOCK/SILT FENCE) WILL BE INSTALLED AS SHOWN ON THE SITE PLANS. THE EROSION CONTROLS WILL BE INSPECTED DURIN CONSTRUCTION TO MAINTAIN THEIR EFFECTIVENESS IN RETAINING SEDIMENTS.

CLEARING, GRADING, AND SOILS

N order for the wetland mitigation area to become successful the final grades need to be set approximately 6 to $^\circ$ INCHES ABOVE GROUNDWATER ELEVATIONS. MINOR ADJUSTMENTS IN FINAL GRADE MAY BE MADE IN THE FIELD BY THE SUPERVISING PW SUBSTANTIAL CHANGES IN THE REPLICATION AREA PLAN ARE NECESSARY, THE APPLICANT WILL SEEK APPROVAL FROM TH CONSERVATION COMMISSION PRIOR TO IMPLEMENTING ANY REVISIONS

THE REPLICATION AREA WILL BE CLEARED AND GRUBBED, AND WILL BE EXCAVATED TO A DEPTH OF 18 INCHES BELOW THE FINAL DESIGN SEEDING ELEVATIONS. SOILS EXCAVATED FROM THE WETLAND IMPACT AREAS ARE OFTEN STOCKPILED AND REUSED IN A PROPOSED REPLICATION AREA IF FEASIBLE AND LACKING IN INVASIVE SPECIES, OTHERWISE A PREPARED TOPSOIL WILL BE REQUIRED. THE SUPERVISING PWS WILL

A NEW ENGLAND WETLAND SEED MIX (OR EQUIVALENT) WILL BE USED FOR THE REPLICATION AREA. THE NEW ENGLAND INSPECT THE SUB-GRADE OF THE REPLICATION AREA TO ENSURE THAT THE PROPER HYDROLOGY HAS BEEN ESTABLISHED. MINOR WETLAND SEED MIX, CONTAINS A SELECTION OF NATIVE SEEDS WHICH ARE SUITABLE FOR MOST WETLAND REPLICATION MODIFICATIONS TO THIS GRADING PLAN MAY BE MADE IN THE FIELD BY THE QUALIFIED PWS IN RESPONSE TO SUBSURFACE HYDROLOGIC SITES THAT ARE NOT PERMANENTLY INUNDATED. THESE SPECIES ARE BEST SUITED TO MOIST DISTURBED GROUND AS

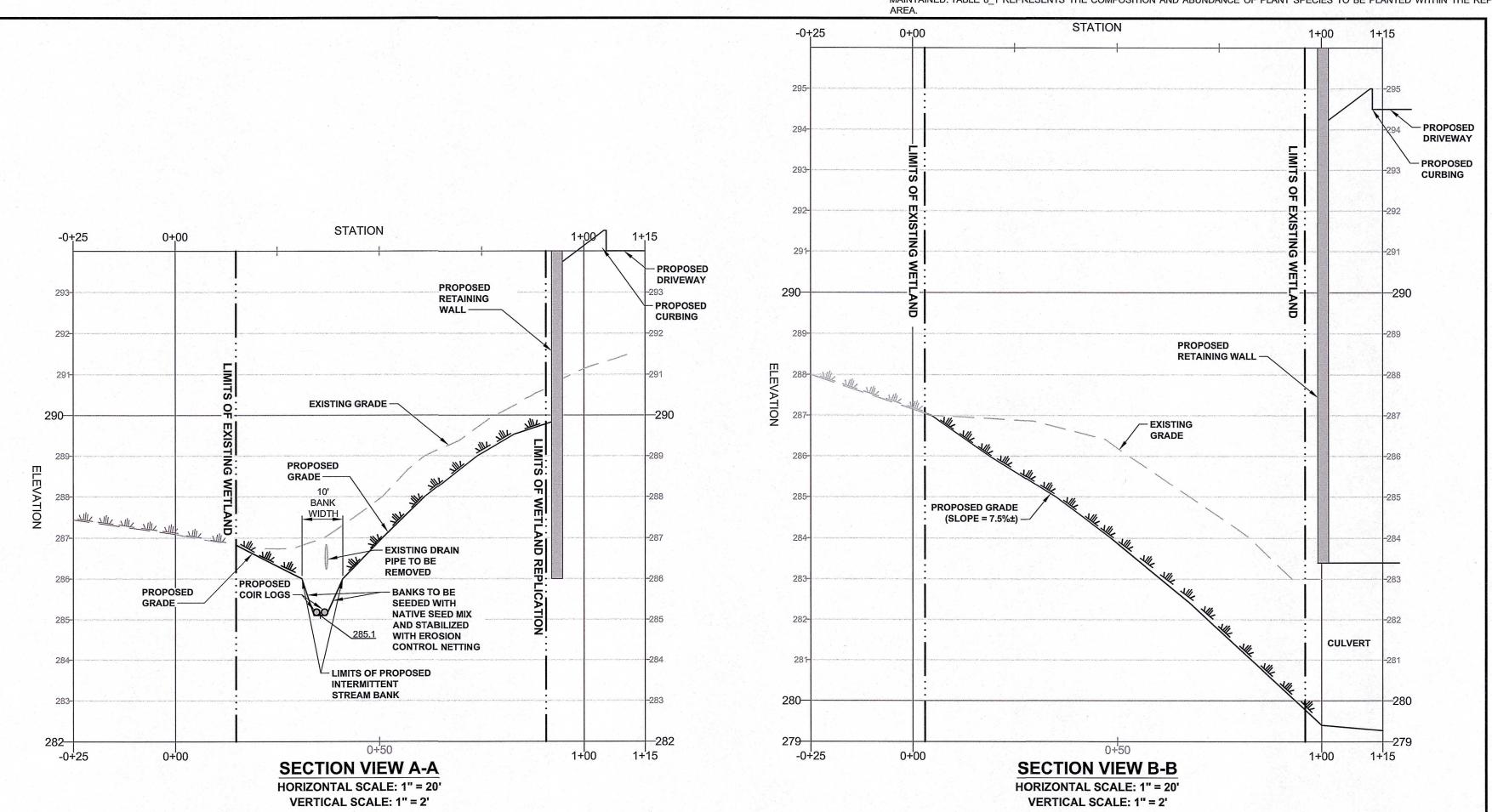
HE GOAL FOR SOILS AT THE WETLAND REPLICATION AREA IS TO CREATE SOIL PROFILES THAT APPROXIMATE AS CLOSELY AS POSSIBLE THE GOAL FOR SOILS AT THE WEILAND REPLICATION AREA IS TO CREATE SOIL FROM ILLO THAT A SURFACE HORIZON IS CREATED THAT
THE SOIL PROFILES AT THE NEAREST UNDISTURBED EXISTING WETLAND. THIS MEANS THAT A SURFACE HORIZON IS CREATED THAT
DURING THE FIRST SEASON OF GROWTH, SEVERAL SPECIES WILL PRODUCE SEEDS, WHILE OTHER SPECIES WILL PRODUCE APPROXIMATES THE A OR O-HORIZON AT THE UNDISTURBED WETLAND SITE AND THAT AT A MINIMUM, CONTAINS 6-12 INCHES OF A OR O
SEEDS AFTER THE SECOND GROWING SEASON. NOT ALL SPECIES WILL GROW IN ALL WETLAND SITUATIONS. THIS MIX IS APPROXIMATES THE A OR O-HORIZON AT THE UNDISTURBED WEILAND SITE AND THAT A PROXIMATES THE DEPTH AND TEXTURE OF THE MATERIAL. BENEATH THE A OR O THERE SHOULD BE A B-HORIZON (SUBSOIL) THAT APPROXIMATES THE DEPTH AND TEXTURE OF THE COMPOSED OF THE WEILAND SPECIES MOST LIKELY TO GROW IN CREATED/RESTORED WEILANDS AND SHOULD PRODUCE COMPOSED OF THE WEILAND SPECIES IN THE NEW PROXIMATES THE ADDRESS OF THE WEILAND SPECIES OF THE WEILAND SPECIES OF THE WEILAND SPECIES IN THE NEW PROXIMATES THE ADDRESS OF THE WEILAND SPECIES OF THE 3-HORIZON AT THE UNDISTURBED WEILAND (UK A SUITABLE COMPOSITION OF THE G-HORIZON). THE GROWING SEASONG. THE WIND COVER IN TWO FULL GROWING SEASONG. THE WI MINIMUM DEPTH OF SIX (6) INCHES PRIOR TO PLACING THE TOPSOIL. THE REPLICATION AREA WILL THEN BE BACKFILLED WITH A PREPARED TOPSOIL TO A MINIMUM DEPTH OF TWELVE (12) INCHES. THE PREPARED TOPSOIL IS TO CONSIST OF A 1:1 MIXTURE (OR EQUAL VOLUMES) OF ORGANIC AND MINERAL MATERIALS, THAT CONTAINS AT LEAST 12-PERCENT ORGANIC CARBON CONTENT BY WEIGHT.

WHERE ABUTTING AN EXISTING WETLAND, THE REPLICATION AREA WILL BE GRADED TO THE SAME ELEVATION AS THE ADJACENT WETLAND IF CONDITIONS ARE DRIER THAN USUAL, WATERING MAY BE REQUIRED. LATE FALL AND WINTER DORMANT SEEDING O MAINTAIN A HYDROLOGIC CONNECTION. AFTER SOILS HAVE BEEN PLACED AND TILLED, THE REPLICATION AREA WILL BE PLANTED WITH REQUIRE AN INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT RECOMMENDED AND THE PREPARATION OF A CLEAN, THE NATIVE SHRUBS AND TREES LISTED IN THE FOLLOWING SECTION AND THE SEED MIX WILL BE APPLIED. ANY FINE GRADING WILL BE WEED FREE SOIL SURFACE IS NECESSARY FOR OPTIMAL RESULTS. CONDUCTED, AND EROSION CONTROLS WILL BE LEFT IN PLACE UNTIL VEGETATION IS ESTABLISHED.

SHRUB AND TREE PLANTING

THE SHRUBS AND TREES USED FOR RE-VEGETATION OF THE REPLICATION SITE WILL BE OBTAINED FROM A REPUTABLE WETLAND PLANT NURSERY. SHRUBS WILL MEASURE APPROXIMATELY AT LEAST 24 INCHES IN HEIGHT (ONE-GALLON CONTAINERS), AND TREE SAPLINGS WILL HAVE A MINIMUM CALIPER SIZE OF ONE-INCH WITH ROOT BALLS SECURED WITH BURLAP. ROOTSTOCK WILL BE GROUPED WITHIN THE REPLICATION SITE TO APPROXIMATE NATURAL COMMUNITIES AND PROVIDE FOOD AND/OR COVER FOR WILDLIFE.

PLANTINGS SHOULD BE PLACED BY HAND UNDER THE SUPERVISION OF A QUALIFIED PWS. THE PLANTINGS SHALL BE RELOCATED TO LOCATIONS WITH SUITABLE HYDROLOGY AND SOILS AND WHERE APPROPRIATE STRUCTURAL CONTEXT WITH OTHER PLANTINGS CAN BE MAINTAINED. TABLE 8_1 REPRESENTS THE COMPOSITION AND ABUNDANCE OF PLANT SPECIES TO BE PLANTED WITHIN THE REPLICATION



Common Name	Scientific Name	Status	Minimum Size	Quantity
Γrees = 26				
Red Maple	Acer rubrum	FAC	1-2" caliper	7
Yellow Birch	Betula alleghaniensis	FAC	1-2" caliper	7
Gray Birch	Betula populifolia	FAC	1-2" caliper	6
Pussy Willow	Salix discolor	FACW	1-2" caliper	6
Shrubs = 40				
Speckled Alder	Alnus rugosa	FACW+	24" minimum	8
Northern Arrow-wood	Viburnum recognitum	FAC	24" minimum	8
Northern Spicebush	Lindera benzoin	FACW	24" minimum	8
Highbush Blueberry	Vaccinium corymbosum	FACW	24" minimum	8
Common Winterberry	Ilex verticillata	FACW	24" minimum	8
Ground Cover				
New England Wetland	Seed Mix (or equivalent)	Varies	1 lb./2,500 s.f.	3 lbs.

Note: Trees and shrubs shall be spaced throughout replication area to simulate natural growth patterns

FOUND IN MOST WET MEADOWS, SCRUB SHRUB, OR FORESTED WETLAND REPLICATION AREAS. THE SEEDS WILL NOT GERMINATE UNDER INUNDATED CONDITIONS. IF PLANTED DURING THE FALL MONTHS, THE SEED MIX WILL GERMINATE THE

APPLIED SHOULD BE LIGHTLY RAKED OR ROLLED TO ENSURE PROPER SOIL-SEED CONTACT. THE BEST RESULTS ARE OBTAINED WHEN SEEDING IS APPLIED DURING THE SPRING, WHEREAS LATE SPRING AND SUMMER SEEDING WILL BENEFIT WITH A LIGHT MULCHING OF CLEAN WEED-FREE STRAW TO CONSERVE MOISTURE.

TABLE 8-2 CONTAINS A LIST OF SPECIES IN THE NEW ENGLAND WETLAND SEED MIX PROPOSED TO BE USED (OR EQUIVALENT) IN THE REPLICATION AREA. APPROXIMATELY THREE POUNDS (DEPENDING ON TIME OF YEAR) OF THE NEW ENGLAND WETLAND SEED MIX WILL BE REQUIRED WITHIN THE REPLICATION AREA (ONE POUND PER 2.500 SQUARE FEET).

Species	Latin Name	Indicator Status
Swamp Milkweed	Asclepias incarnata	OBL
Starved/Calico Aster	Aster lateriflorus	FACW
Beggar Ticks	Bidens frondosa	FACW
Fringed/Nodding Sedge	Carex crinita	OBL
Hop Sedge	Carex lupulina	OBL
Lurid/Shallow Sedge	Carex lurida	OBL
Blunt Broom Sedge	Carex scoparia	FACW
Fox Sedge	Carex vulpinoidea	OBL
Spotted Joe Pye Weed	Eutrochium maculatum	OBL
American Mannagrass	Glyceria grandis	OBL
Blue Flag	Iris versicolor	OBL
Fowl Bluegrass	Poa palustris	FACW
Soft Rush	Juncus effusus	FACW
Square Stemmed Monkey Flower	Mimulus ringens	OBL
Green Bulrush	Scirpus atrovirens	OBL
New York Ironweed	Veronia noveboracensis	FACW

PLANNED HYDROLOGY

THE PROPOSED LOCATION OF THE REPLICATION AREA IS ADJACENT TO WETLAND A. THE BVW BORDERS ON AN INTERMITTENT STREAM AND IS LOCATED ALONG A SLOPE. HYDROLOGY WITHIN THE BVW IS PROVIDED BY GROUNDWATER PRESENT IN THE SLOPE GROUNDWATER DRAINAGE. HYDROLOGY WITHIN THE REPLICATION AREA WILL BE DRIVEN BY THE SHALLOW DEPTH OF GROUNDWATER, AS WELL AS PRECIPITATION.

IRRIGATION

IF NECESSARY, THE REPLICATION AREA WILL BE IRRIGATED WITH AN APPROVED WATER SOURCE IF NATURAL HYDROLOGICAL CYCLES DO NOT PROVIDE SUFFICIENT WATER TO INITIALLY SUSTAIN THE NEWLY PLANTED VEGETATION. IRRIGATION PRACTICES WILL ONLY BE USED IN DROUGHT SITUATIONS OR IF OTHER UNFORESEEN SITUATIONS WARRANT THE NEED FOR IRRIGATION PRACTICES. AFTER PLANTING AND SEEDING, THE REPLICATION AREA SHALL BE MULCHED WITH STRAW. THE MULCH SHALL PROVIDE SUFFICIENT COVER FOR MOISTURE RETENTION, SEED PROTECTION, AND SOIL STABILIZATION. THE MULCH WILL BE FREE OF WEEDS, REEDS, TWIGS, CHAFF, DEBRIS, AND EXCESSIVE AMOUNTS OF SEED

8.2 WETLAND RESTORATION

THERE ARE SEVERAL AREAS OF THE SITE WHERE THE EXISTING WETLANDS ARE BEING ACTIVELY AND LEGALLY MAINTAINED AS AGRICULTURAL AND MOWED FIELDS. THESE AREA ARE IDENTIFIED ON THE EXISTING WETLAND DISTURBANCE EXHIBIT (SHEET EX-DIST) INCLUDED IN SECTION III - FIGURES OF THE NOTICE OF INTENT APPLICATION. APPROXIMATELY 12,485 SQUARE FEET OF THESE WETLAND AREAS WILL BE RESTORED. RESTORATION WILL INCLUDE SEEDING PER THE SPECIFICATIONS IN THE PREVIOUS SECTION.

8.3 BUFFER ZONE RESTORATION

TEMPORARILY IMPACTED AREAS OF THE 25-FOOT BUFFER ZONE AND THE 100-FOOT BUFFER ZONE WILL BE RESTORED FOLLOWING COMPLETION OF CONSTRUCTION. THESE AREAS ARE IDENTIFIED ON THE WETLAND & BUFFER ZONE IMPACT EXHIBIT (SHEET BZ-EX) INCLUDED IN SECTION III - FIGURES FOR THE NOTICE OF INTENT APPLICATION. WORK GENERALLY INCLUDES GRADING AND CLEARING FOR CONSTRUCTION OF THE ROADWAYS, RETAINING WALLS, PARKING AREAS, AND OTHER INFRASTRUCTURE. APPROXIMATELY 41,575 SQUARE FEET OF THE 25-FOOT BUFFER ZONE WILL BE RESTORED UPON COMPLETION OF WORK. APPROXIMATELY 113,150 SQUARE FEET OF THE 100-FOOT BUFFER ZONE WILL BE RESTORED UPON COMPLETION OF WORK.

THE NEW ENGLAND SHOWY WILDFLOWER MIX PROVIDES A PERMANENT COVER OF GRASSES. WILDFLOWERS, AND LEGUMES FOR BOTH GOOD EROSION CONTROL AND WILDLIFE HABITAT VALUE. THE MIX IS DESIGNED TO BE A NO MAINTENANCE SEEDING, AND IS APPROPRIATE FOR CUT AND FILL SLOPES, DETENTION BASIN SIDE SLOPES, AND DISTURBED AREAS ADJACENT TO COMMERCIAL AND RESIDENTIAL PROJECTS.

THE MIX SHOULD BE APPLIED ON CLEAN BARE SOIL VIA HYDRO-SEEDING OR MECHANICAL SPREADER. THE AREAS WHERE THE MIX IS APPLIED SHOULD BE LIGHTLY RAKED OR ROLLED TO ENSURE PROPER SOIL-SEED CONTACT. THE BEST RESULTS ARE OBTAINED WHEN SEEDING IS APPLIED DURING THE SPRING, WHEREAS LATE SPRING AND SUMMER SEEDING WILL BENEFIT WITH A LIGHT MULCHING OF CLEAN WEED-FREE STRAW TO CONSERVE MOISTURE.

IF CONDITIONS ARE DRIER THAN USUAL, WATERING MAY BE REQUIRED. LATE FALL AND WINTER DORMANT SEEDING REQUIRE AN INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT RECOMMENDED AND THE PREPARATION OF A CLEAN, WEED FREE SOIL SURFACE IS NECESSARY FOR OPTIMAL RESULTS.

TABLE 8-3 CONTAINS A LIST OF SPECIES IN THE NEW ENGLAND SHOWY WILDFLOWER SEED MIX SEED MIX PROPOSED TO BE

TABLE 8-3 SHOWY WILDFLOWER SEED MIX				
Species	Latin Name	Indicator Status		
Little Bluestem	Schizachyrium scoparium	FACU		
Partridge Pea	Chamaecrista fasciculata	FACU		
Indian Grass	Sorghastrum nutans	UPL		
Creeping Red Fescue	Festuca rubra	FACU		
Canada Wild Rye	Elymus canadensis	FACU+		
Riverbank Wild Rye	Elymus riparius	FACW		
Ox Eye Sunflower	Heliopsis helianthoides	UPL		
Lance Leaved Coreopsis	Coreopsis lanceolata	FACU		
Black Eyed Susan	Rudbeckia hirta	FACU-		
Marsh Blazing Star	Liatris spicata	FAC+		
Common Milkweed	Asclepias syriaca	FACU-		
New York Ironweed	Vernonia noveboracensis	FACW+		
New England Aster	Aster novae-angiliae	FACW-		
Purple Joe Pye Weed	Eupatorium purpureum	FAC		
Butterfly Milkweed	Asclepias tuberosa	NI		
Early Goldenrod	Solidago juncea	NI		
Boneset	Eupatorium perfoliatum	FACW		

8.4 STREAM RESTORATION

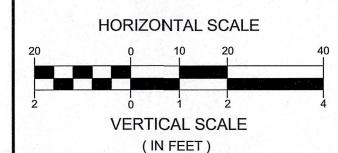
THE APPLICANT IS PROPOSING TO DAYLIGHT APPROXIMATELY 180 LINEAR FEET OF THE CULVERTED STREAM WEST OF THE PROPOSED NORTHERN STREAM CROSSING, ENCOMPASSING AN AREA OF APPROXIMATELY 910 SQUARE FEET WITHIN THE PROPOSED WETLAND REPLICATION AREA. THE SITE PLANS INCLUDE THE DETAILS FOR THE PROPOSED DAYLIGHTING OF

UPON REMOVAL OF THE EXISTING PIPE, ANY NON-NATIVE FILL WILL BE REMOVED AND THE EXISTING SUBSTRATE WILL BE

8.5 MONITORING

MONITORING OF THE RESTORATION/REPLICATION AREAS WILL BE PERFORMED BY A QUALIFIED PWS TO ENSURE SUCCESSFUL PLANT ESTABLISHMENT FOR A MINIMUM TWO YEARS IN ACCORDANCE WITH ALL APPLICABLE PERMIT CONDITIONS. THE FIRST INSPECTION WILL TAKE PLACE AFTER THE FIRST GROWING SEASON OR 180 GROWING SEASON DAYS AFTER PLANTING. TWO INSPECTIONS WILL OCCUR EACH YEAR, ONE IN THE LATE SPRING AND ANOTHER IN THE EARLY FALL. A YEARLY MONITORING REPORT WILL BE PREPARED AND SUBMITTED TO THE APPROPRIATE REGULATORY AGENCIES AND WILL DESCRIBE THE WORK COMPLETED AND VEGETATION WITHIN THE RESTORED SITE AS WELL AS ANY ACTION TO BE TAKEN TO REPAIR, RESTORE, OR REPLANT THE AREA IF NEEDED.

AFTER THE INSPECTIONS, THE CONTRACTOR WILL REPLACE ALL PLANTS THAT HAVE NOT BECOME ESTABLISHED AND HAVE BEEN STABILIZED WITH VEGETATION AND MONITORING IS COMPLETE. THE EROSION CONTROL AND SILTATION BARRIERS SHALL BE REMOVED. IF CONDITIONS DEVELOP THAT IMPEDE THE SUCCESS OF THE RESTORATION/REPLICATION EFFORTS, CORRECTIVE ACTION SHALL BE TAKEN. IF THE REQUIRED CORRECTIVE MEASURES ARE MINOR IN NATURE, INCLUDING ADDITIONAL EROSION CONTROLS, REMOVAL OF UNDESIRABLE INVASIVE PLANTS, OR MINOR RE GRADING/RE-SEEDING, THEN THE WORK SHALL BE PERFORMED AS REQUIRED.



SEE SHEETS C-1C & C-1D FOR EROSION AND SEDIMENT CONTROL MEASURES DURING THE REMOVAL OF THE EXISTING DRAIN PIPE CULVERT AND CONSTRUCTION OF THE INTERMITTENT STREAM

NOT FOR CONSTRUCTION

Copyright © 2021 R.J. O'Connell & Associates, Inc.

GRAPHIC SCALE IN FEET

DESIGNED BY: MAC DRAWN BY: MCR REVISED PER CONCOM PEER REVIEW COMMENTS 05/10/2024 REVIEWED BY BJM REVISED PER CONCOM PEER REVIEW COMMENTS 03/28/2024 REVISED PER ZBA PEER REVIEW COMMENTS 02/12/2024 SCALE: AS NOTED REVISED PER ZBA PEER REVIEW COMMENTS 02/02/2024 DATE DATE REVISION REVISION

FAIRFIELD GROVE STREET LLC 30 BRAINTREE HILL OFFICE PARK SUITE 105

BRAINTREE, MA 02184

PREPARED FOR:

DUNDON CIVIL

RJO'CONNELL & ASSOCIATES, INC.

CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS 80 MONTVALE AVENUE, SUITE 201 STONEHAM, MA 02180 PHONE: 781.279.0180 RJOCONNELL.COM

FRANKLIN, MA

WETLAND REPLICATION PLAN

GROVE STREET RESIDENCES

DRAWING NAME:

PROJECT NO.: 22016

Copyright © 2023 by R.J. O'Connell & Associates, Inc.