

NOTICE OF INTENT PLAN

4 SPECTACLE POND ROAD

TITLE SHEET

ZONING INFORMATION

ZONING DISTRICT: I-A OVERLAY DISTRICT: WATER RESOURCE		
DESCRIPTION	REQUIRED	EXISTING
MIN. LOT AREA	NR	261,360± SF
MIN. FRONTAGE	NR	49.87 FT
MIN. FRONT YARD	80 FT	N/A
MIN. SIDE YARD	50 FT	N/A
MIN. REAR YARD	50 FT	N/A
MAX. LOT COVERAGE BY BUILDINGS	30%	0.0%
MAX. LOT COVERAGE BY BUILDINGS & PAVEMENT	80%	0.0%
MAX BUILDING HEIGHT	40 FT	N/A



LOCUS MAP
SCALE: 1" = 1,000'

LEGEND

EXIST. FEATURE	DESCRIPTION	EXIST. SYM.	DESCRIPTION
	STREAMS/RIVERS		TELEPHONE POLE
	WETLANDS		GUY WIRE
	LIMIT OF BUFFER ZONE		HYDRANT
	PROPERTY LINE		SEWER MANHOLE
	WIRE FENCE		WELL
	WATER LINE		MISCELLANEOUS MANHOLE
	GAS LINE		WETLAND FLAG
	ELECTRICAL LINE		CATCH BASIN
	STORM DRAIN		WATER GATE VALVE
	EXISTING OVER-HEAD WIRES		SIGN
	EXISTING CONTOUR (INDEX)		PERC TEST
	EXISTING CONTOUR (INTERMEDIATE)		TEST PIT

LEGEND

PROP. FEATURE	DESCRIPTION	PROP. SYM.	DESCRIPTION
	PROPERTY LINE		PROPOSED TELEPHONE POLE
	EASEMENT LINE		PROPOSED HYDRANT
	STRAWBALES		PROPOSED SANITARY MANHOLE
	WIRE FENCE		PROPOSED WATER SHUTOFF
	PROPOSED WATER LINE		PROPOSED WATER GATE VALVE
	PROPOSED ELECTRICAL LINE		PROPOSED ELECTRICAL JUNCTION BOX
	PROPOSED SANITARY SEWER		PROPOSED SIGN
	PROPOSED EDGE OF PAVEMENT		BORING
	PROPOSED CONTOUR (INDEX)		PROPOSED RIPRAP
	PROPOSED CONTOUR (INTERMEDIATE)		STANDARD TREE
	PROPOSED SPOT ELEVATION		PINE TREE
	PROPOSED BUILDING/HOUSE		SHRUB
	TREE LINE		
	PROPOSED STORMWATER MANAGEMENT AREA		

SHEET INDEX

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C1.1	EXISTING CONDITIONS PLAN
C2.0	GRADING, UTILITY, & DRAINAGE PLAN
C2.1	RIVERFRONT RESTORATION AREA DETAIL
C3.0	EROSION & SEDIMENTATION CONTROL PLAN

DILLIS & ROY
CIVIL DESIGN GROUP

CIVIL ENGINEERS LAND SURVEYORS WETLAND CONSULTANTS

CORPORATE OFFICE: 1 MAIN STREET, SUITE 1 LUNENBURG, MA 01462 978-779-6091 www.dillisandroy.com

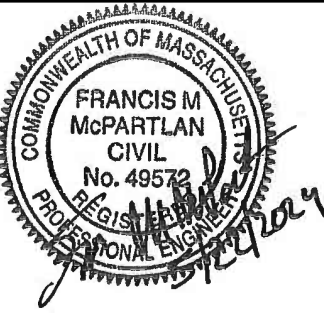
CONCORD OFFICE: 100 MAIN ST., SUITE 310 CONCORD, MA 01742

OWNER: STEVEN BREITMAIER
4 SPECTACLE POND ROAD
LITTLETON, MASSACHUSETTS

APPLICANT: BRITE EXCAVATING
14 PATRICIA DRIVE
AYER, MASSACHUSETTS

SCALE:

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DATE: 3/11/2024

DESIGN BY: SBD

DRAWN BY: SBD/RWP

CHECKED BY: FMM

TITLE SHEET
4 SPECTACLE POND ROAD
LITTLETON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY
1.	5/10/24	REVISIONS PER 5/8/24 CONSERVATION COMM. SITE WALK	SBD
2.	5/21/24	GENERAL REVISIONS PER CLIENT COMMENTS	CRL

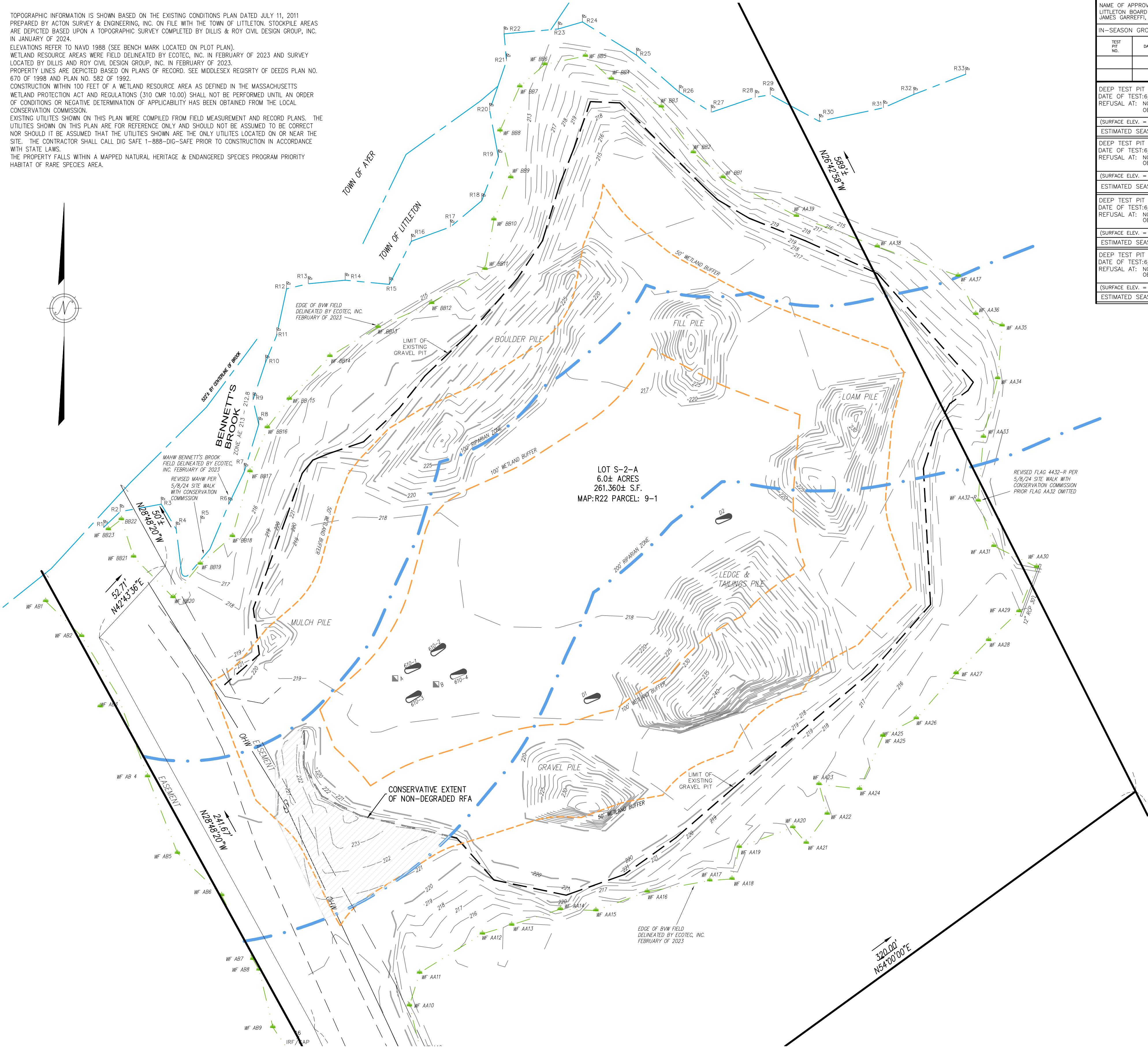
JOB NO. 6233

DRAWING NO. 6233 TITLE

SHEET NO. C1.0

GENERAL NOTES:

- TOPOGRAPHIC INFORMATION IS SHOWN BASED ON THE EXISTING CONDITIONS PLAN DATED JULY 11, 2011 PREPARED BY ACTON SURVEY & ENGINEERING, INC. ON FILE WITH THE TOWN OF LITTLETON. STOCKPILE AREAS ARE DEPICTED BASED UPON A TOPOGRAPHIC SURVEY COMPLETED BY DILLIS & ROY CIVIL DESIGN GROUP, INC. IN JANUARY OF 2024.
- ELEVATIONS REFER TO NAVD 1988 (SEE BENCH MARK LOCATED ON PLOT PLAN).
- WETLAND RESOURCE AREAS WERE FIELD DELINEATED BY ECOTEC, INC. IN FEBRUARY OF 2023 AND SURVEY LOCATED BY DILLIS AND ROY CIVIL DESIGN GROUP, INC. IN FEBRUARY OF 2023.
- PROPERTY LINES ARE DEPICTED BASED ON PLANS OF RECORD. SEE MIDDLESEX REGISTRY OF DEEDS PLAN NO. 670 OF 1998 AND PLAN NO. 582 OF 1992.
- CONSTRUCTION WITHIN 100 FEET OF A WETLAND RESOURCE AREA AS DEFINED IN THE MASSACHUSETTS WETLAND PROTECTION ACT AND REGULATIONS (310 CMR 10.00) SHALL NOT BE PERFORMED UNLESS AN ORDER OF CONDITIONS OR NEGATIVE DETERMINATION OF APPLICABILITY HAS BEEN OBTAINED FROM THE LOCAL CONSERVATION COMMISSION.
- EXISTING UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND SHOULD NOT BE ASSUMED TO BE CORRECT NOR SHOULD IT BE ASSUMED THAT THE UTILITIES SHOWN ARE THE ONLY UTILITIES LOCATED ON OR NEAR THE SITE. THE CONTRACTOR SHALL CALL DIG SAFE 1-888-DIG-SAFE PRIOR TO CONSTRUCTION IN ACCORDANCE WITH STATE LAWS.
- THE PROPERTY FALLS WITHIN A MAPPED NATURAL HERITAGE & ENDANGERED SPECIES PROGRAM PRIORITY HABITAT OF RARE SPECIES AREA.



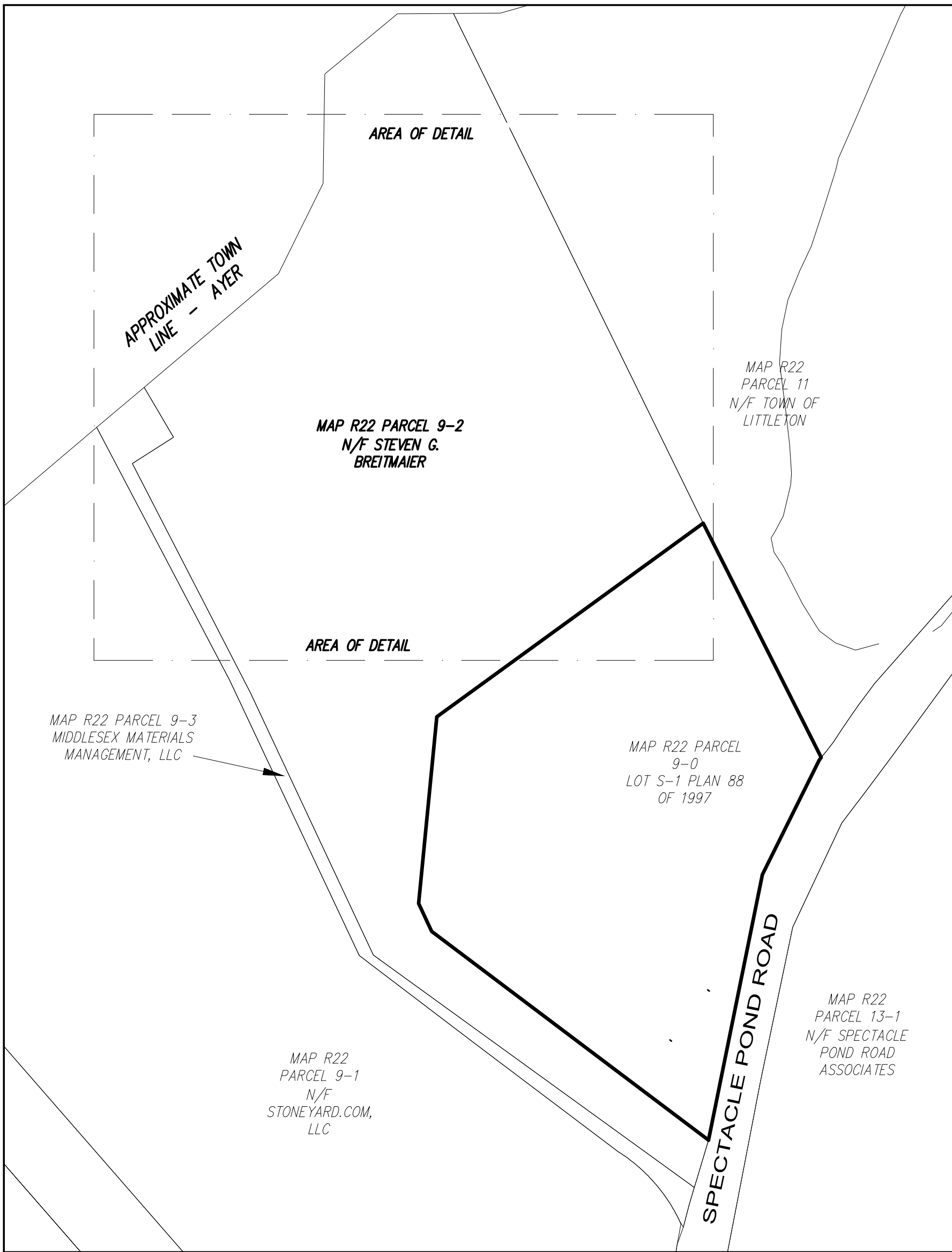
NAME OF APPROVING AUTHORITY: LITTLETON BOARD OF HEALTH JAMES GARRETT, AGENT						NAME OF SOIL EVALUATOR: MARK T. DONOHUE ACTON SURVEY & ENGINEERING, INC.					
IN-SEASON GROUND WATER TESTING - (IF REQ'D)						PERCOLATION TEST DATA					
TEST PIT NO.	DATE	SURFACE ELEVATION	DEPTH TO OBSERVED PERCOLATION	GROUNDWATER ELEVATION	TEST PIT NO.	DATE	TOP OF 12" OF WATER	DEPTH FROM SURFACE	SURFACE ELEVATION	RATE, MINUTES PER INCH	OTHER:
					610-A	6/8/10		37"	218.4	CNS	
					818-B	6/8/10		39"	218.6	CNS	
DEEP TEST PIT 610-1											
DATE OF TEST: 6/8/10											
REFUSAL AT: NONE OBSERVED											
			DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	G.W.		OTHER:	
			0-14"	FILL							
			14-97"	C	CS	2.5Y5/3	81"	83"			
(SURFACE ELEV. = 218.6)											
ESTIMATED SEASONAL HIGH GROUND WATER AT 81" (ELEVATION = 211.9)											
DEEP TEST PIT 610-2											
DATE OF TEST: 6/8/10											
REFUSAL AT: NONE OBSERVED											
			DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	G.W.		OTHER:	
			0-26"	FILL							
			26-88"	C	CS	2.5Y5/3	NONE	77"	POSSIBLE REDOX @ 71"		
(SURFACE ELEV. = 218.4)											
ESTIMATED SEASONAL HIGH GROUND WATER AT 77" (ELEVATION = 212.0)											
DEEP TEST PIT 610-3											
DATE OF TEST: 6/8/10											
REFUSAL AT: NONE OBSERVED											
			DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	G.W.		OTHER:	
			0-18/30"	FILL							
			30-108"	C	CS	2.5Y5/3	NONE	87"	POSSIBLE REDOX @ 80"		
(SURFACE ELEV. = 218.8)											
ESTIMATED SEASONAL HIGH GROUND WATER AT 87" (ELEVATION = 211.6)											
DEEP TEST PIT 610-4											
DATE OF TEST: 6/8/10											
REFUSAL AT: NONE OBSERVED											
			DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	G.W.		OTHER:	
			0-24"	FILL							
			24-104"	C	CS	2.5Y5/3	NONE	75"	POSSIBLE REDOX @ 70"		
(SURFACE ELEV. = 218.5)											
ESTIMATED SEASONAL HIGH GROUND WATER AT 75" (ELEVATION = 212.3)											

NAME OF SOIL EVALUATOR: RICHARD J. HARRINGTON DILLIS & ROY CIVIL DESIGN GROUP, INC.								
DEEP TEST PIT D1	DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	G.W.	OTHER:	
DATE OF TEST: 2/7/24	0-22"	FILL						
REFUSAL AT: NONE OBSERVED	22-72"	C	LS	2.5Y6/6	60"	60"		
(SURFACE ELEV. = 218.5)								
ESTIMATED SEASONAL HIGH GROUND WATER AT 60 " (ELEVATION = 213.5)								
DEEP TEST PIT D2	DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	G.W.	OTHER:	
DATE OF TEST: 2/7/24	0-40"	FILL						
REFUSAL AT: NONE OBSERVED	40-80"	C	S	2.5Y6/3	NONE	56"		
(SURFACE ELEV. = 217.5)								
ESTIMATED SEASONAL HIGH GROUND WATER AT 56 " (ELEVATION = 212.8)								

200-FOOT RIVERFRONT AREA SUMMARY TABLE

	EXISTING (SF)	PROPOSED (SF)
DEGRADED AREA	73,198	53,625
NATURALIZED AREA	35,848*	39,260*
ROOF AREA	0	6,000
PAVED AREA	0	10,161
TOTAL:	109,046 SF	109,046 SF

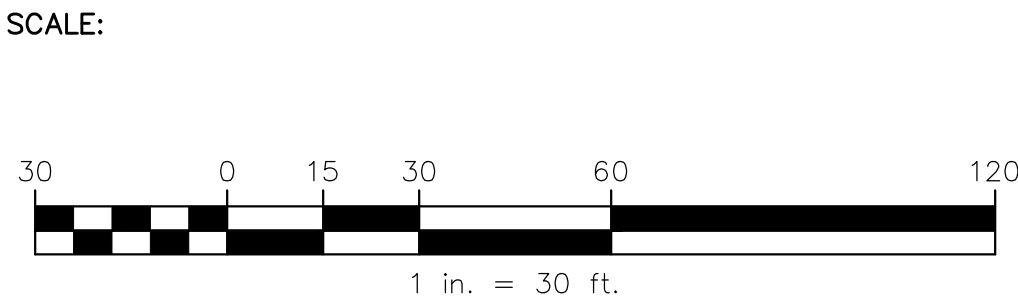
*NOTE: NO NON-DEGRADED PORTION OF THE SITE WILL BE ALTERED (I.E. THE PROPOSED LIMIT OF WORK WILL BE LIMITED TO THE EXISTING DISTURBED PORTIONS OF THE SITE.)



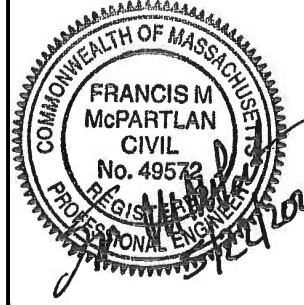
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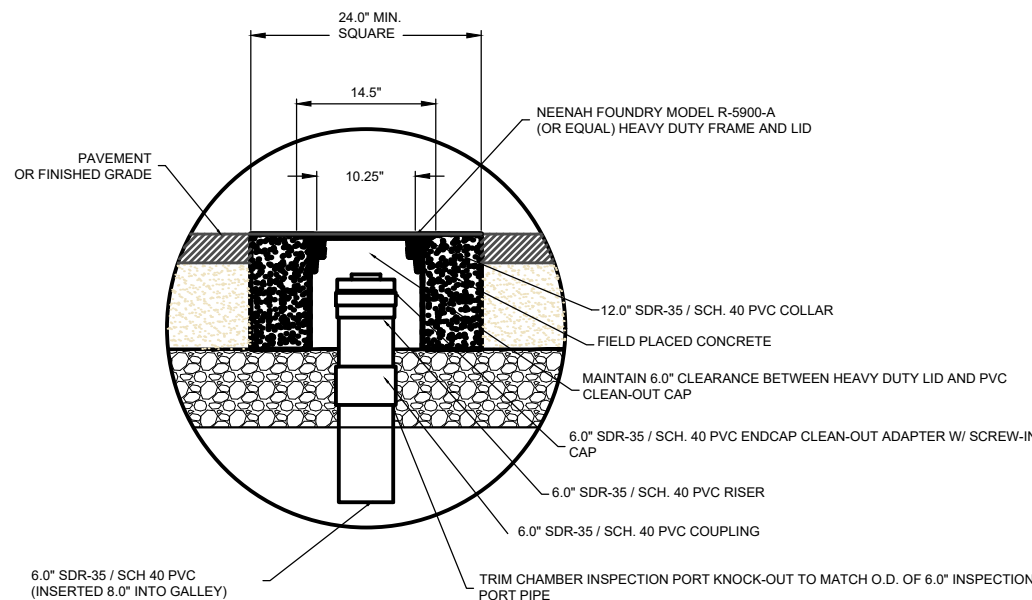
EXISTING CONDITIONS
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LITTLETON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY
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JOB NO. 6233
DRAWING NO. 6233 TITLE
SHEET NO. C1.1

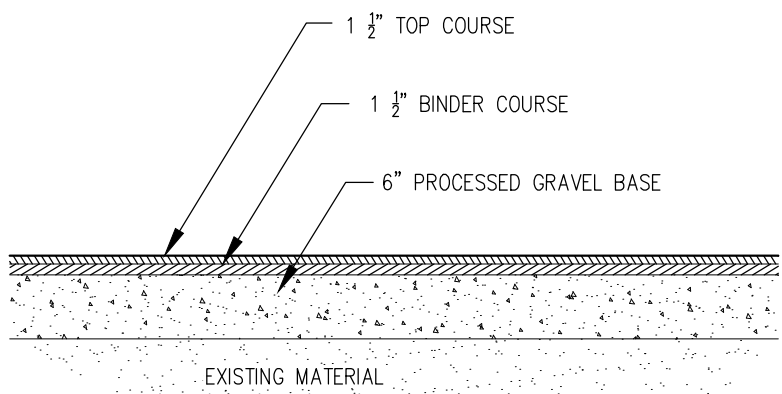
GRADING & DRAINAGE NOTES:

1. GRADES SHOWN ON THIS PLAN REFER TO FINAL FINISHED GRADES.
2. REFER TO DETAIL SHEET (SHEET 8) FOR DETAILS PERTAINING TO TYPICAL CROSS SECTION, CATCH BASIN, AND OTHER PERTINENT DETAILS.
3. STORM DRAIN PIPE TO BE SMOOTH LINED HDPE PIPE AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC. OR APPROVED EQUAL.
4. MANHOLES SHALL BE 4-FOOT DIAMETER PRECAST CONCRETE STRUCTURES FOR H-20 LOADING UNLESS OTHERWISE NOTED. SEE DETAILS ON SHEET 8.
5. ALL CATCH BASINS SHALL BE 4-FOOT DIAMETER PRECAST CONCRETE CATCH BASINS FOR H-20 LOADING. SEE DETAIL ON SHEET 8.
6. SUBSURFACE INFILTRATION AREAS SHALL BE LEACHING GALLEYS AS MANUFACTURED BY SHEA CONCRETE (OR EQUAL AS APPROVED BY ENGINEER).
7. THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO MINIMIZE COMPACTION OF SOILS IN RECHARGE AREAS BOTH DURING AND AFTER CONSTRUCTION.
8. UNIT ENTRANCES SHALL BE GRADED FLUSH WITH THE PROPOSED GRADE. FOUNDATIONS SHALL BE DESIGNED TO ACCOMMODATE FLUSH GRADE AT ENTRANCES.
9. ROOF HEADERS SHALL BE 4"Ø PVC. UNLESS OTHERWISE NOTED, STORM DRAIN LINES SHALL BE 12" ADS N-12 DRAINAGE PIPE.
10. NO PROPOSED WORK SHALL BE COMPLETED WITHIN THE FLOODPLAIN.



STORMWATER GALLEY INSPECTION PORT DETAIL

NOT TO SCALE

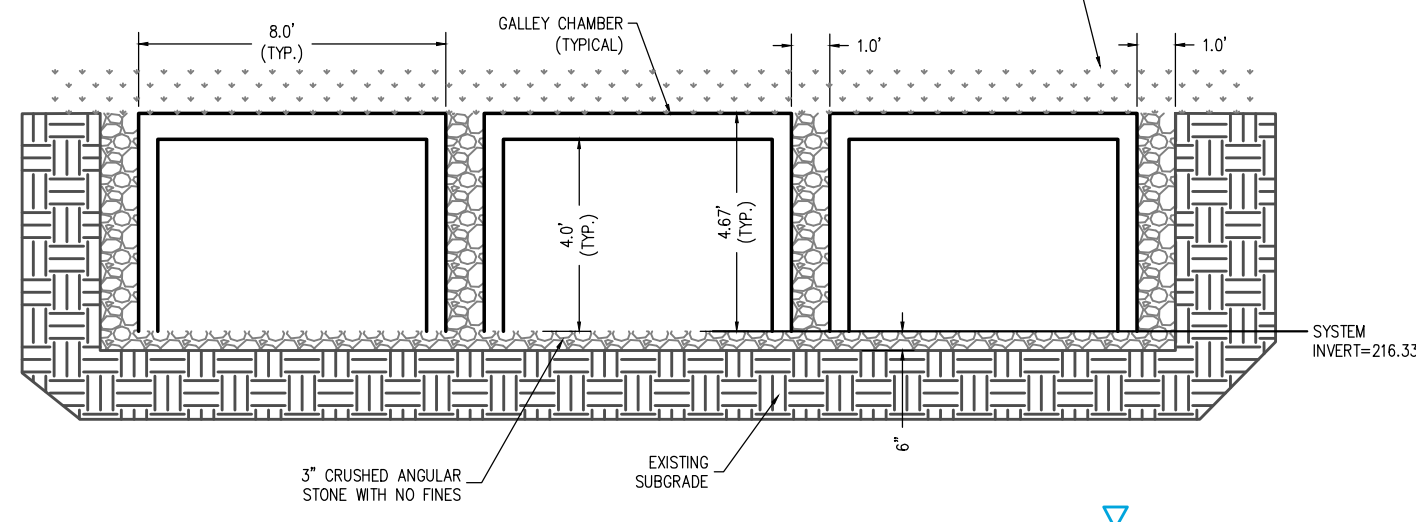


PAVEMENT CROSS-SECTION (TYP.)

NOT TO SCALE

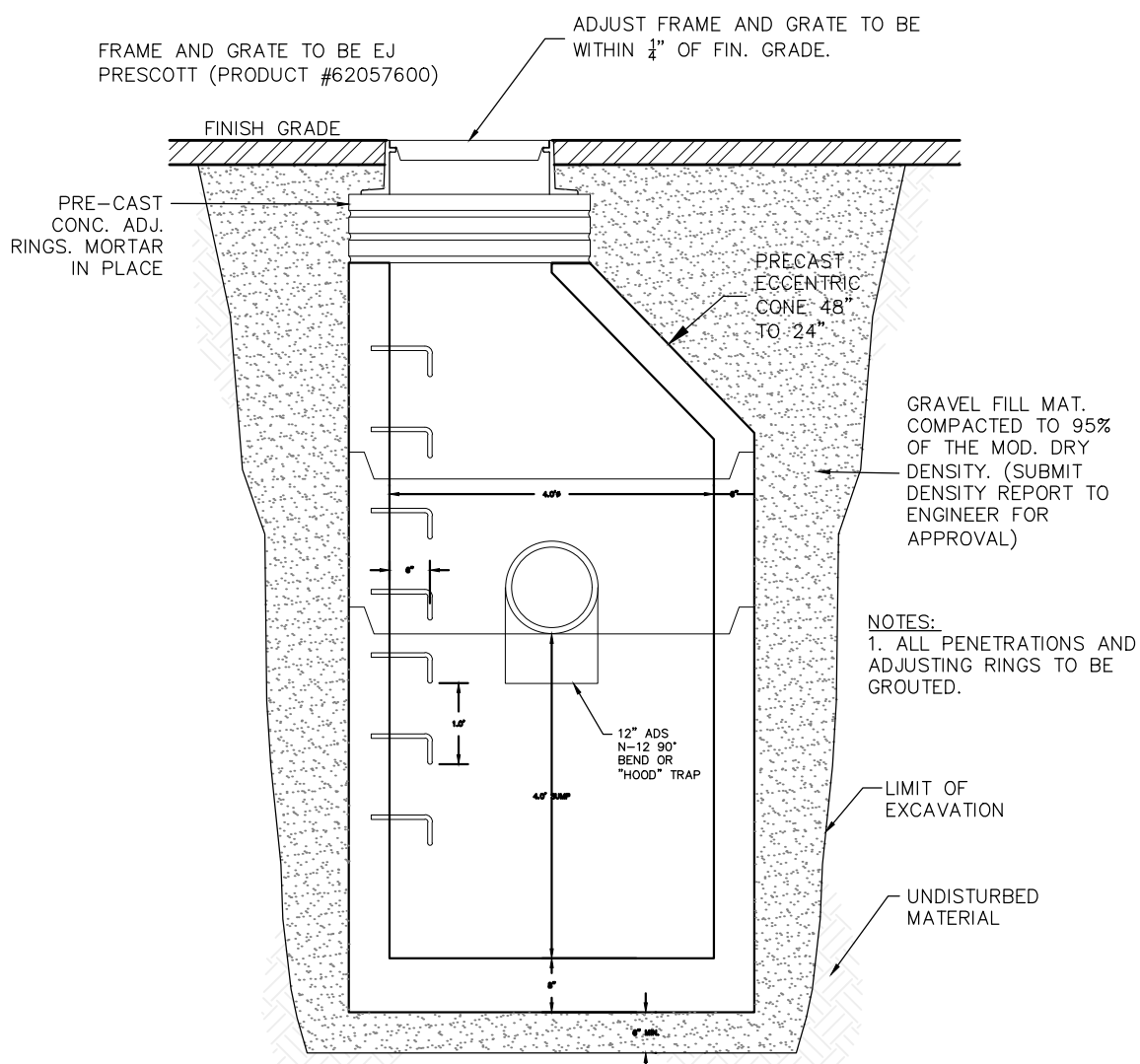
GENERAL NOTES:

1. CONCRETE SHALL BE 500 PSI MINIMUM AFTER 28 DAYS.
2. GALLEYS SHALL BE DESIGNED FOR ASHTO H-20 LOADING.
3. GALLEYS SHALL BE MANUFACTURED BY SHEA CONCRETE (OR APPROVED EQUAL).



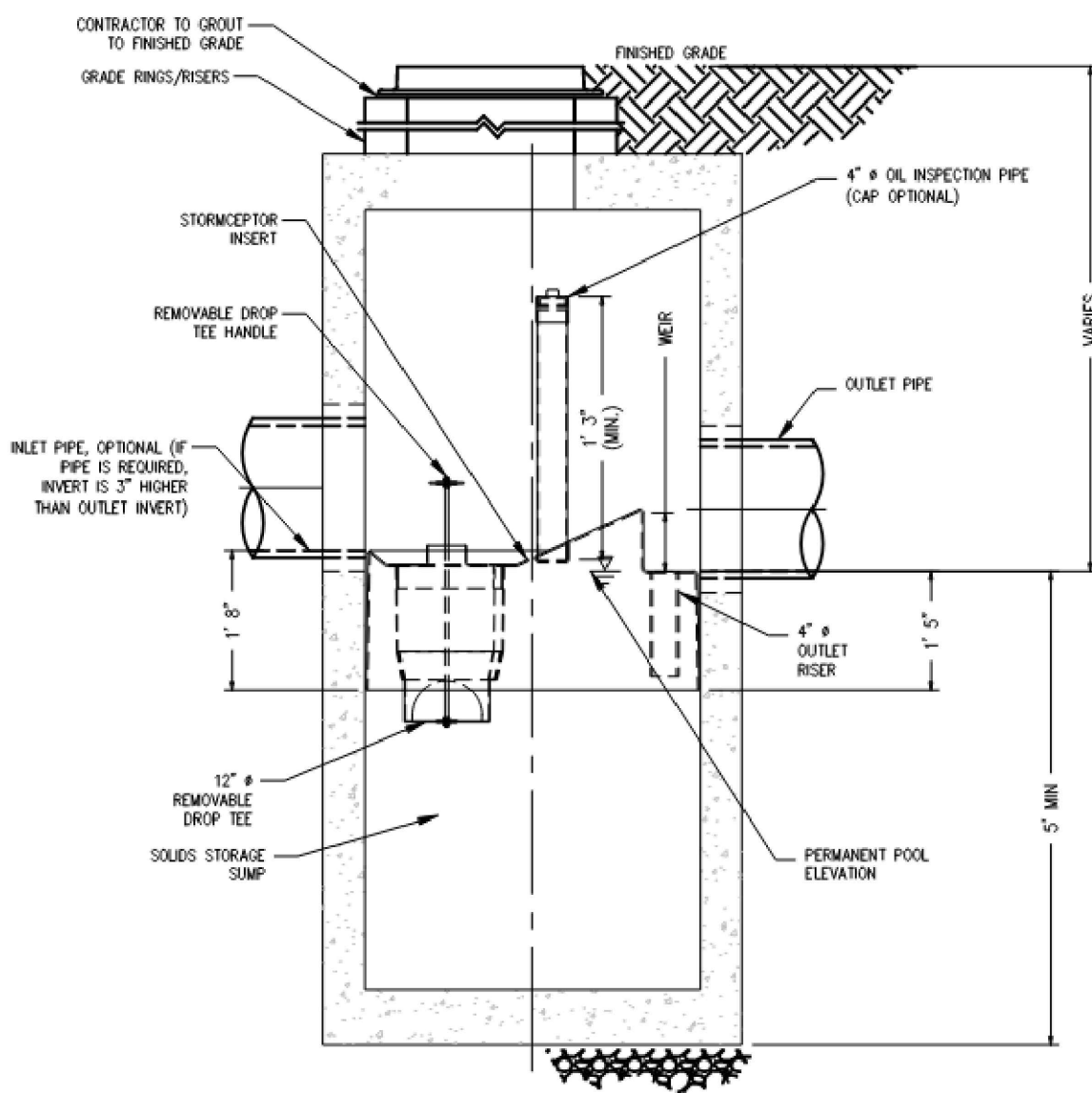
SUBSURFACE INFILTRATION SYSTEM DETAIL

NOT TO SCALE



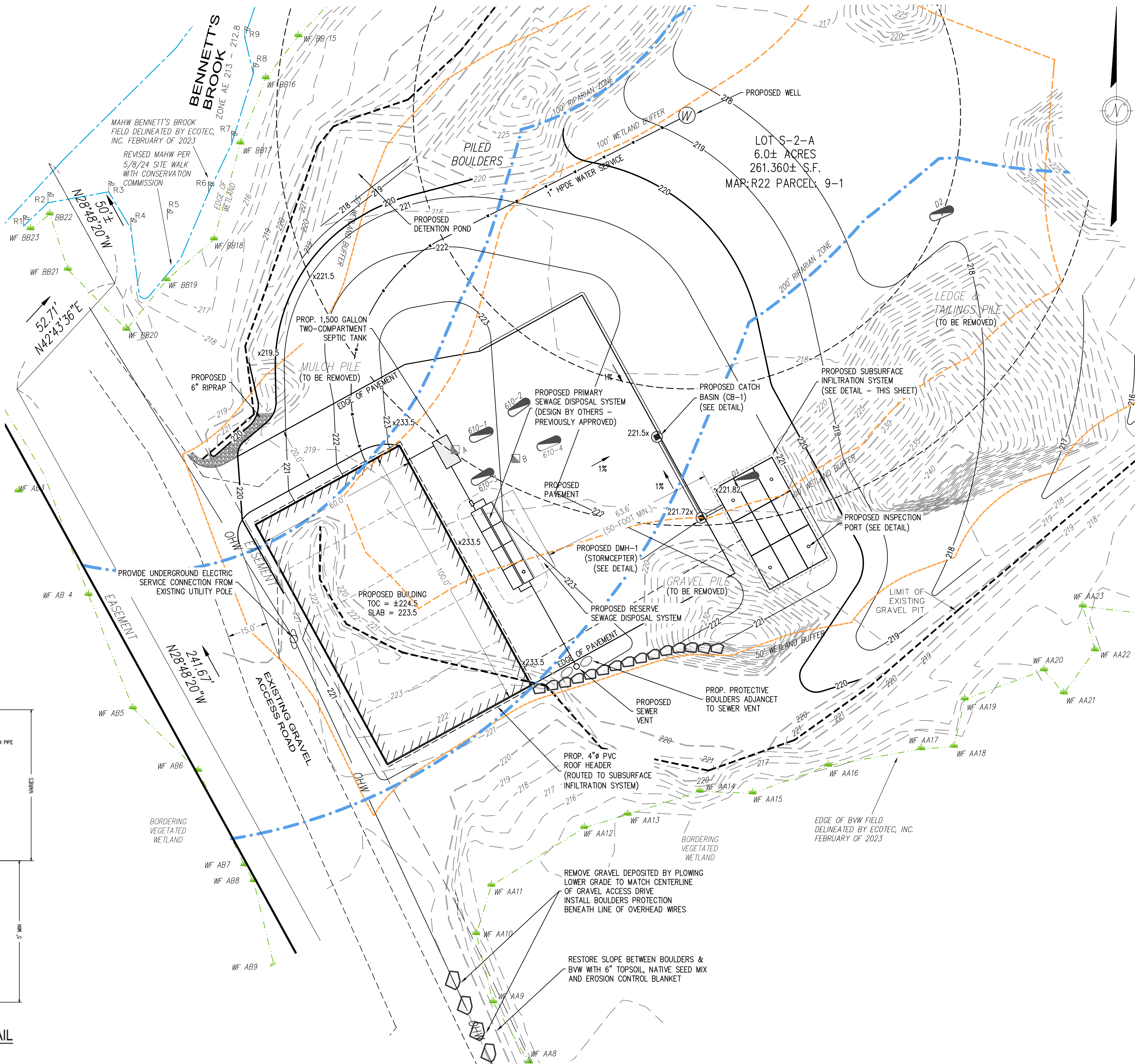
CATCH BASIN DETAIL

NOT TO SCALE



CONTECH STORMCEPTOR STC 450i DETAIL

NOT TO SCALE

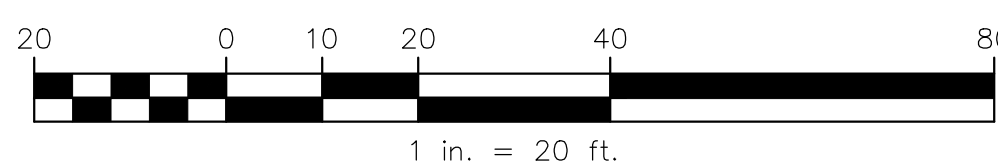


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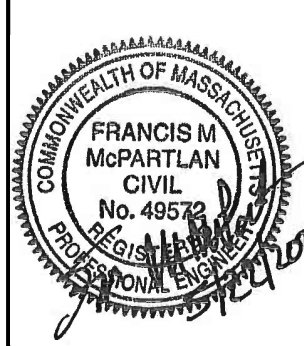
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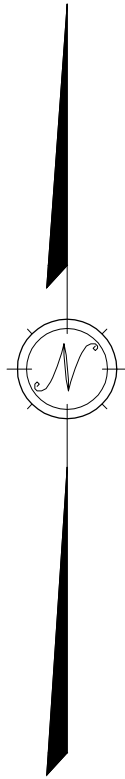
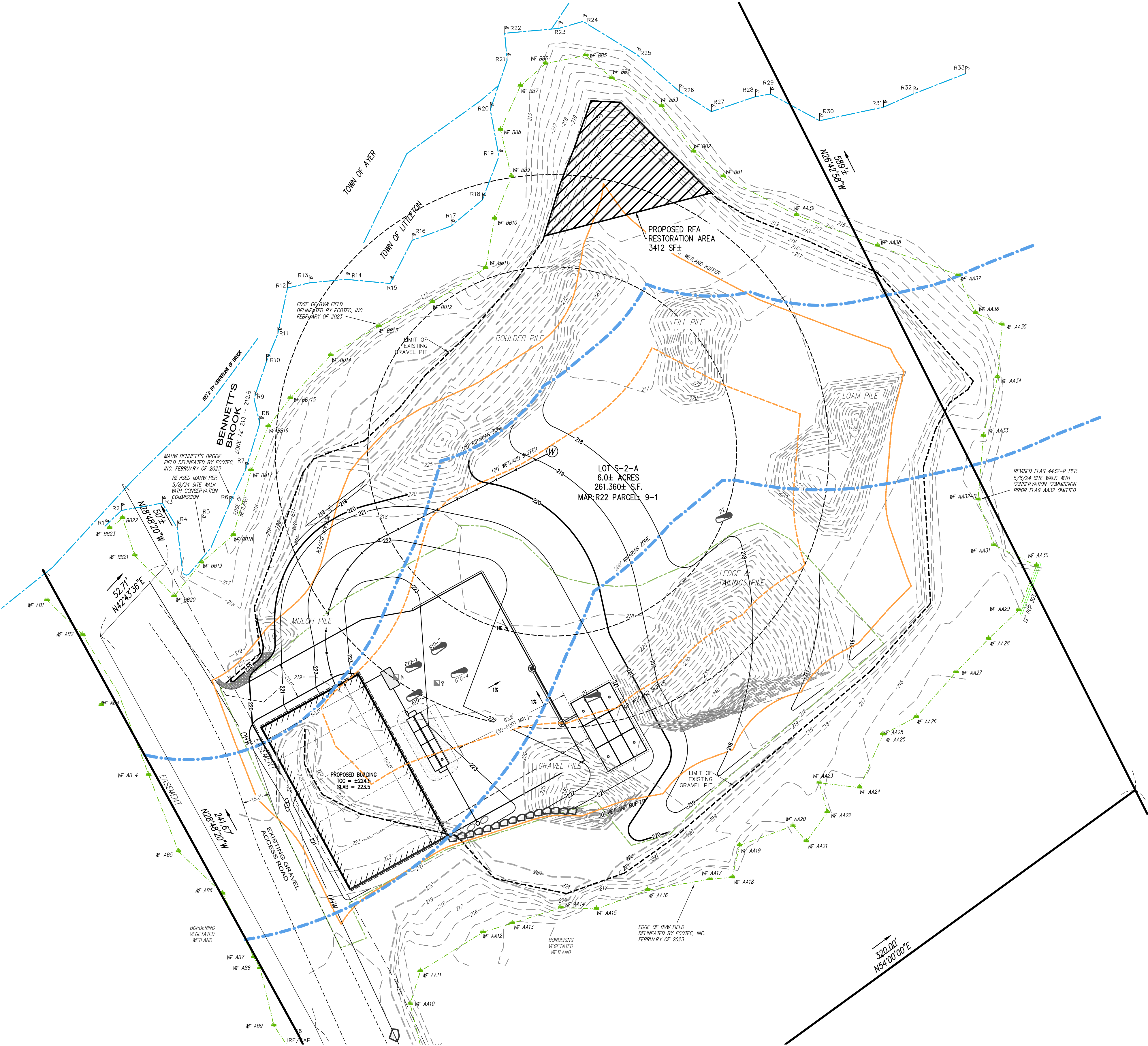
GRADING, UTILITY, & DRAINAGE PLAN
4 SPECTACLE POND ROAD
LITTLETON, MASSACHUSETTS

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JOB NO. 6233
DRAWING NO. 6233 GRADING
SHEET NO. C2.0

GRADING & DRAINAGE NOTES:

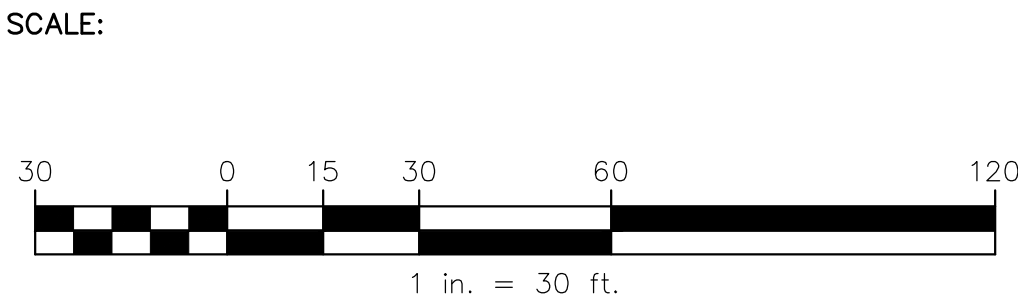
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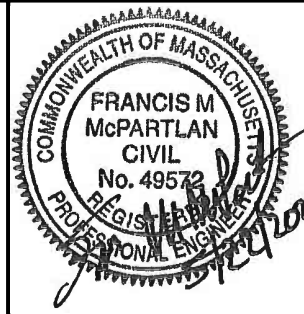
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RIVERFRONT RESTORATION AREA DETAIL
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JOB NO. 6233
DRAWING NO. 6233 GRADING
SHEET NO. C2.1

1.1 GENERAL REQUIREMENTS

1.1.2 CONSTRUCTION SHALL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.

1.1.3 EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE ON SITE.

1.1.4 AREAS WHICH ARE NOT TO BE DISTURBED SHALL BE CLEARLY MARKED BY FLAGS, SIGNS, ETC. RETAIN EXISTING VEGETATION WHERE FEASIBLE.

1.1.5 THERE SHALL BE NO STORAGE OF ANY KIND OF ANY CHEMICALS, PESTICIDES, FUELS AND OTHER POTENTIALLY TOXIC OR HAZARDOUS MATERIALS ON SITE.

1.1.6 NO DEBRIS, JUNK, RUBBISH OR OTHER WASTE MATERIALS SHALL BE BURIED ON THE SITE.

1.1.7 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.

1.2 MAINTENANCE / PERFORMANCE STANDARDS

1.2.1 ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL WITH AN ACCUMULATION OF 1/2" OR MORE. THE FOLLOWING ITEMS SHALL BE CHECKED IN PARTICULAR:

1.2.1.1 THE SILT FENCE BARRIERS SHALL BE CHECKED REGULARLY FOR TEARS, DETEIORATION AND UNDERMINING AND SHALL BE REPAIRED AS REQUIRED.

1.2.1.2 ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE RESEEDDED AS NEEDED.

1.2.2 THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD, DIRT DEBRIS, ETC., ONTO THE PUBLIC ROAD. THE PUBLIC ROAD, INCLUDING PERIODIC UP KEEP RECONSTRUCTION OF THE TOP DRESSING WITH 2 INCH STONE AS CONDITIONS DEMAND AND OR CLEANUP/REPLACEMENT OF STONE IF CLOGGING OR SEDIMENTATION OCCURS. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO THE TOWN ROAD MUST BE REMOVED DAILY BY SWEEPING OR OTHER SUITABLE MEANS. REFER TO THE TEMPORARY CONSTRUCTION ENTRANCE DETAIL (THIS SHEET).

1.2.3 ALL AREAS ON SITE SUBJECT TO EROSION/SEDIMENTATION SHALL BE INSPECTED ON A REGULAR BASIS. ALL ITEMS SPECIFIED ON THIS AND OTHER PLANS SHALL BE INSPECTED TO VERIFY THAT THEY ARE OPERATING AS DESIGNED AND INTENDED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AND REPAIR ALL STRUCTURES.

1.2.4 THE ENTIRE DRAINAGE SYSTEM SHALL BE INSPECTED ON A REGULAR BASIS AND PRIOR TO AND IMMEDIATELY AFTER ANY RAINFALL EVENT WHILE THE SITE IS DISTURBED. POST CONSTRUCTION INSPECTIONS & MAINTENANCE SHALL BE PERFORMED IN ACCORDANCE WITH THE OPERATION & MAINTENANCE MANUAL IN APPENDIX G OF THE STORMWATER REPORT.

1.3 TEMPORARY MEASURES

1.3.1 PLACE STRAW WATTLIES AS SHOWN ON THE EROSION CONTROL PLAN.

1.3.2 IF LOAM IN PLACED OUTSIDE OF THE NORMAL GROWING SEASON SILT FENCE OR STRAW WADDOLES SHALL BE PLACED BETWEEN THE LAWN AREA AND PAVEMENT.

1.3.3 CONSTRUCT TEMPORARY STONE PAD AT EXIT TO THE SITE AS SHOWN ON THIS PLAN.

1.3.4 DURING DRY PERIODS, PROVIDE MEANS FOR MITIGATION OF DUST, SUCH AS WATERING OF EXPOSED AREAS.

1.3.5 STOCKPILE LOCATIONS SHALL BE WITHIN THE PROPOSED LIMIT OF WORK AND OUTSIDE ALL RESOURCE AREAS. SOIL STOCKPILES STORED FOR 24 HOURS OR LONGER WILL BE PROVIDED WITH ANY NECESSARY EROSION CONTROL. PILES LEFT FOR 21 DAYS OR MORE SHALL BE SEEDDED.

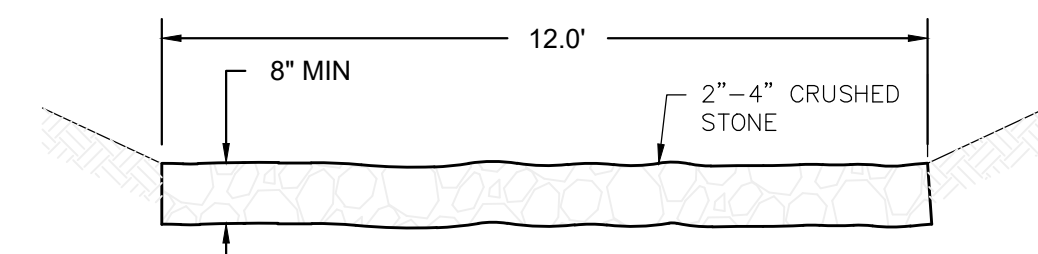
1.3.6 WASTE DISPOSAL RECEPTACLES AND TRAILERS SHALL BE USED FOR THE DISPOSAL OF CONSTRUCTION DEBRIS, WHICH SHALL BE REMOVED FROM SITE ACCORDING TO STATE, LOCAL AND FEDERAL GUIDELINES. CONSTRUCTION DEBRIS INCLUDES PAVEMENT, UTILITY, EARTH AND BUILDING MATERIALS THAT CANNOT BE REUSED. THE RECEPTACLES SHALL BE LOCATED ON SITE OUTSIDE OF ALL RESOURCE AREAS AND COVERED.

1.3.7 THE LITTER CONSTRUCTION SHALL NOT BE REMOVED UNTIL PERMANENT STABILIZATION HAS OCCURRED AND ONLY AFTER APPROVAL BY THE LITTLETON CONSERVATION COMMISSION AND THE ENGINEER.

1.4 PERMANENT STABILIZATION

1.4.1 SLOPES IN EXCESS OF 3 TO 1 SHALL BE HYDRO-MULCHED. LOAMED (4" MIN.) AND SEEDED SLOPES SHALL BE PROTECTED FROM WASHOUT BY MULCHING OR OTHER ACCEPTABLE SLOPE PROTECTION UNTIL VEGETATION IS ESTABLISHED.

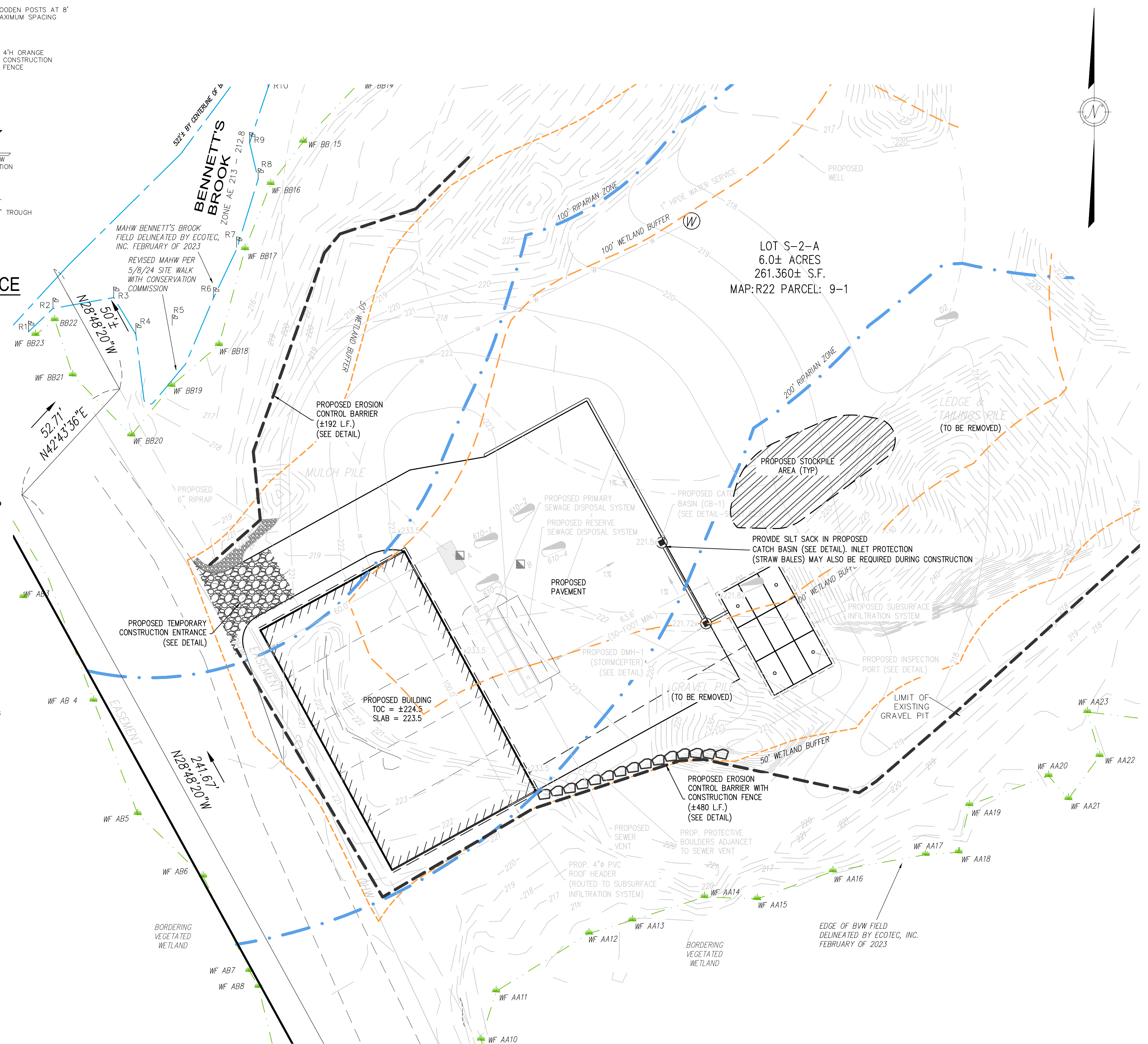
1.4.2 UNLESS OTHERWISE INDICATED HEREON ALL DISTURBED AREAS SHALL BE LOAMED (4" MIN.) AND SEEDED WITH AN APPROPRIATE MIXTURE OF GRASSES SUITABLE FOR THE AREA. AREAS NOT STABILIZED BEFORE THE END OF THE FALL PLANTING SEASON SHALL BE HYDRO-MULCHED AND SEEDED IN THE SPRING. ALL DISTURBED AREAS DURING THE WINTER MONTHS WILL BE STABILIZED BY LIMITING THE SLOPES TO 3 TO 1 OR HYDRO-MULCHED, AS DESCRIBED ABOVE.



NOT TO SCALE

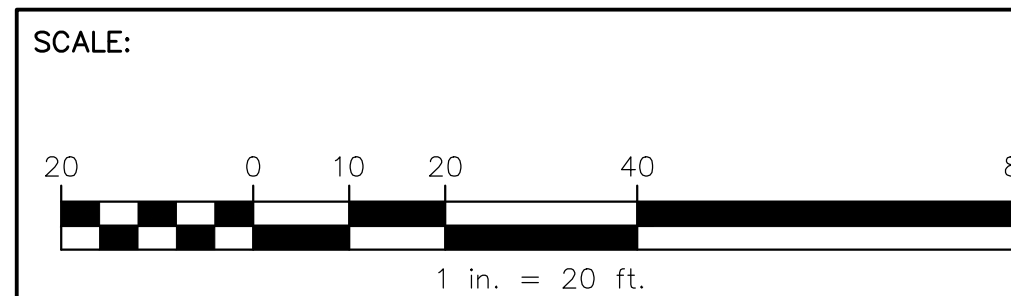


NOT TO SCALE

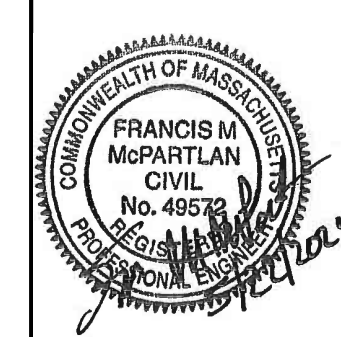


The logo for Dillis & Roy Civil Design Group features a stylized 'DR' monogram on the left, with the 'D' in blue and the 'R' in green. To the right of the monogram, the company name 'DILLIS & ROY' is written in a large, bold, dark blue sans-serif font. Below this, 'CIVIL DESIGN GROUP' is written in a smaller, green sans-serif font. A horizontal line separates the header from the contact information below.

OWNER:	STEVEN BREITMAIER 4 SPECTACLE POND ROAD LITTLETON, MASSACHUSETTS
APPLICANT:	BRITE EXCAVATING 14 PATRICIA DRIVE AYER, MASSACHUSETTS



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DATE:	3/11/2024
DESIGN BY:	SBD
DRAWN BY:	SBD/RWP
CHECKED BY:	FMM

EROSION & SEDIMENTATION CONTROL PLAN			
4 SPECTACLE POND ROAD			
LITTLETON, MASSACHUSETTS			
NO.	DATE	DESCRIPTION	BY
1.	5/10/24	REVISIONS PER 5/8/24 CONSERVATION COMM. SITE WALK	SBD
2.	5/21/24	GENERAL REVISIONS PER CLIENT COMMENTS	CRL

JOB NO.	6233
DRAWING NO.	6233-EROSION
SHEET NO.	C3.0