

DRACUT SENIOR HOUSING

40B - Site Plan of Land at
144 Greenmont Avenue Dracut, Massachusetts

Prepared for
Common Ground Development Corporation

Locus Map

Scale: 1" = 2000'

DRACUT ASSESSORS DATA:
MAP: 47 PARCEL: 249 AND 115

REFERENCES:
NORTH MIDDLESEX COUNTY
REGISTRY OF DEEDS
BOOK: 32840 PAGE: 275

OWNER:
TOWN OF DRACUT
62 ARLINGTON STREET
DRACUT, MA 01826

APPLICANT:
COMMON GROUND DEVELOPMENT CORP.
155 MERRIMACK STREET, 2ND FLOOR
LOWELL, MA 01852

ARCHITECT:
BWA ARCHITECTURE
132 LINCOLN STREET
BOSTON, MA 02111

PLANNERS, LAND SURVEYORS
& CIVIL ENGINEERS:
PLACES ASSOCIATES, INC.
256 GREAT ROAD, SUITE 4
LITTLETON, MA 01460



Excerpt From MassGIS

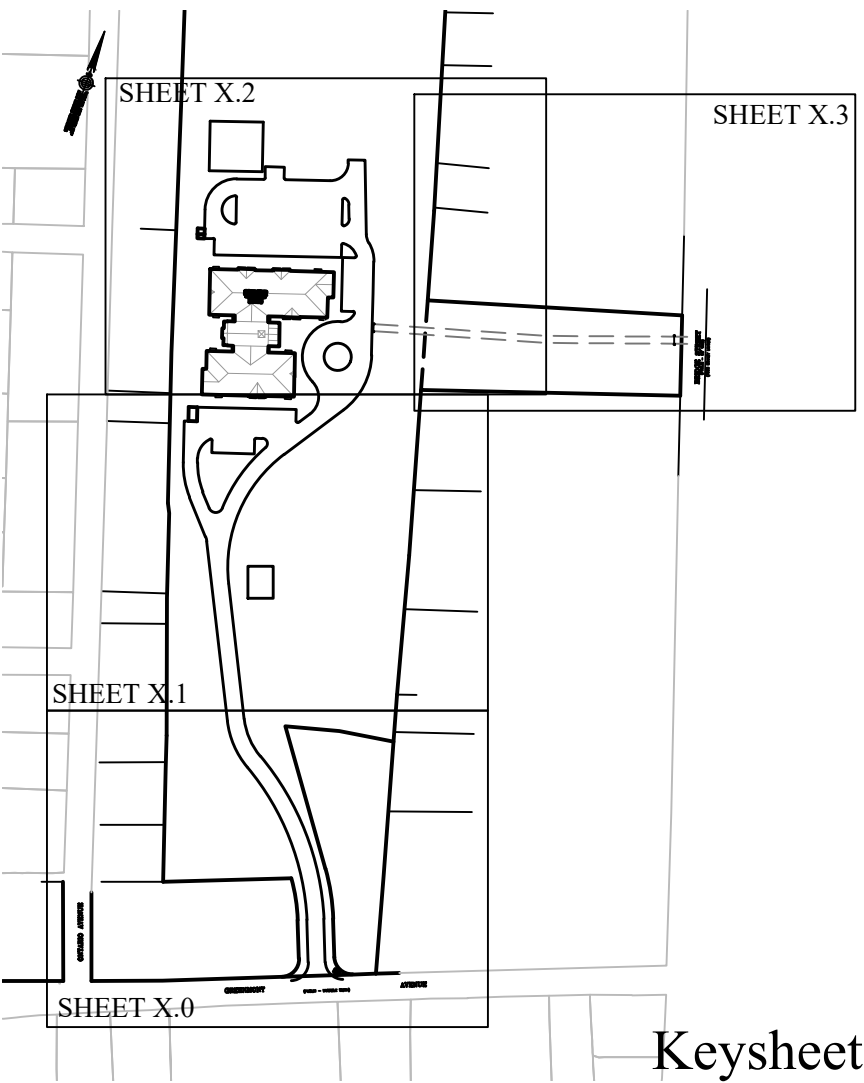
ZONING TABLE		
DISTRICT: RESIDENTIAL 1		
PROPOSED USE USE: MULTI-FAMILY*		
	REQUIRED	PROPOSED
MINIMUM LOT AREA	40,000 SQ.FT.	17.3 ACRES + 1 ACRES = 18.3± ACRES
MINIMUM LOT FRONTAGE	175 FEET	100 FEET (GREENMONT AVE)*
MINIMUM LOT WIDTH	30 FEET	113 FEET (BRIDGE ST.)*
		50 FEET (GREENMONT AVE)
MINIMUM FRONT YARD	30 FEET	113 FEET (BRIDGE ST.)
		819± FEET (GREENMONT AVE)
MINIMUM SIDE YARD	15 FEET	545± FEET (BRIDGE ST.)
MINIMUM REAR YARD	35 FEET	N/A
MAXIMUM BUILDING HEIGHT	36 FEET	44± FEET
MAXIMUM NUMBER OD STORIES	2.5 STORIES	52.5± FEET (SEE ARCHITECTURAL PLANS)
		3 STORIES (SEE ARCHITECTURAL PLANS)

THE SITE IS LOCATED IN A ZONE X, AREA OF MINIMAL FLOOD HAZARD, FIRM MAP 25017C014E, EFFECTIVE DATE 6/4/2010 AND THEREFORE IS NOT LOCATED WITHIN THE TOWN OF DRACUT FLOODPLAIN AND FLOODWAY DISTRICT.

PARKING
MULTI-FAMILY:
REQUIRED: TWO (2) SPACES PER DWELLING UNIT
60 UNITS X 2 = 120 REQUIRED*

PROVIDED: 77 SPACES, 8 OF WHICH ARE HANDICAP ACCESSIBLE (1.28 PER UNIT)

* SEE LIST OF 40B WAIVERS SUBMITTED UNDER SEPARATE COVER



PERMIT SET
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AUGUST 13, 2020

SHEET INDEX:

- C-0 NOTES AND LEGEND
- C-1.0 - 1.3 EXISTING CONDITIONS & DEMO PLAN
- C-2.0 - 2.2 LAYOUT AND MATERIALS PLAN
- C-3.0 - 3.3 GRADING AND DRAINAGE PLAN
- C-4.0 - 4.3 UTILITY PLAN
- C-5.0 EROSION & SEDIMENTATION CONTROL PLAN
- C-6 to C-8 CONSTRUCTION DETAILS
- L-1 LANDSCAPE PLAN
- T-1 TURNING MOVEMENT PLAN

COVER

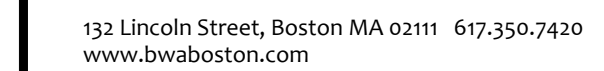
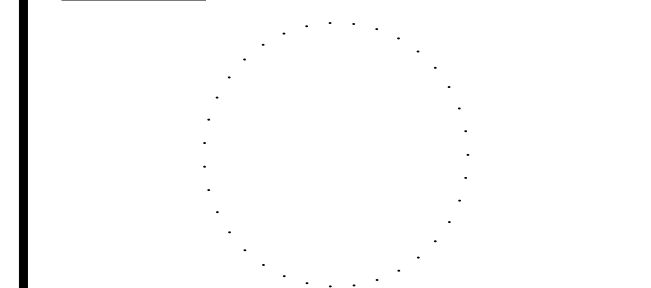
COVER



DRACUT CENTER
SENIOR HOUSING

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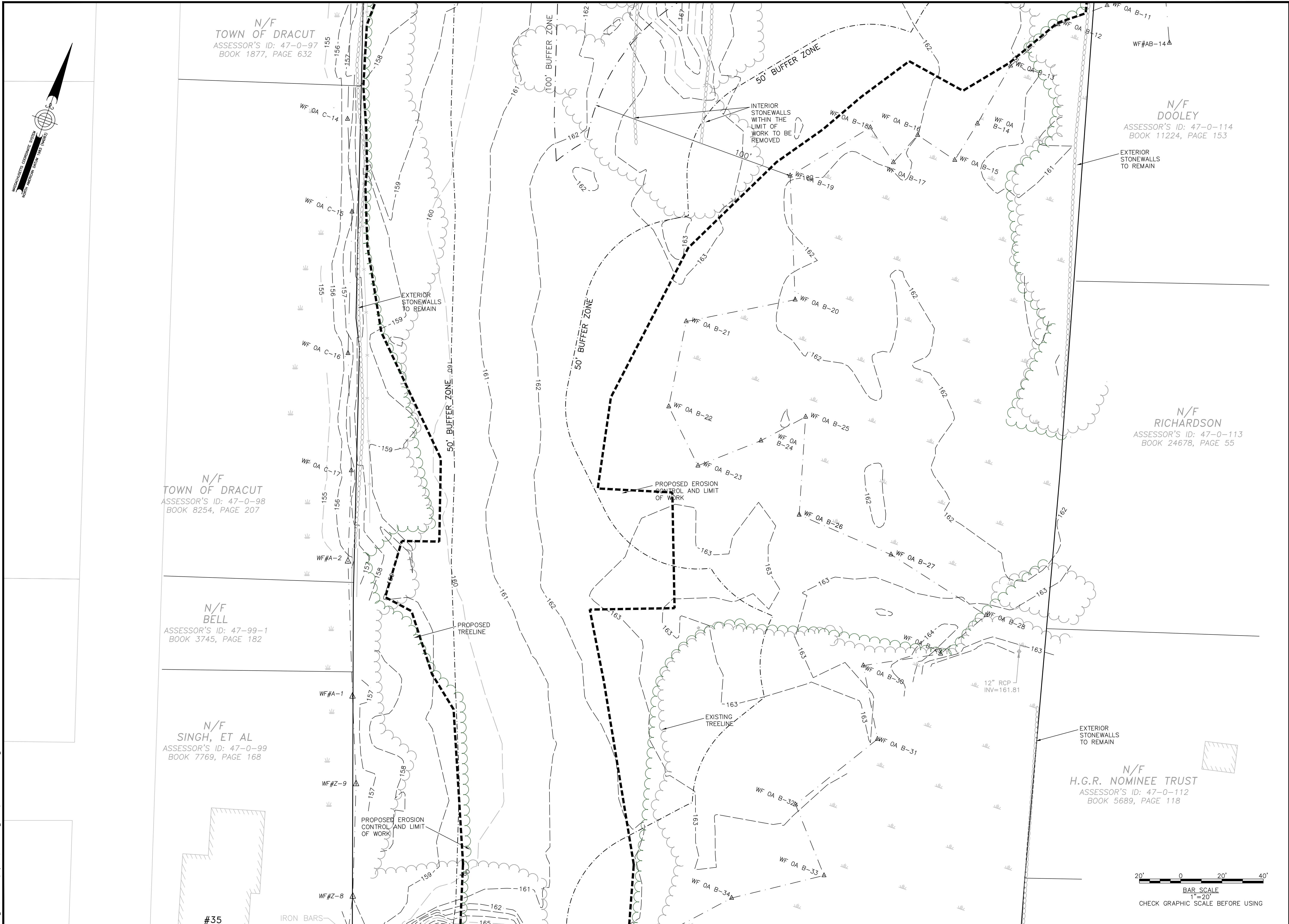
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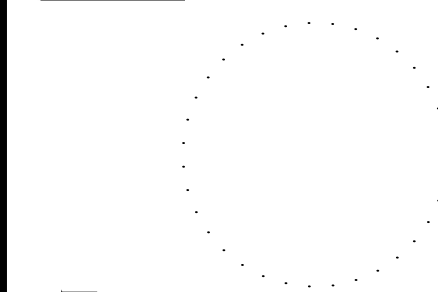
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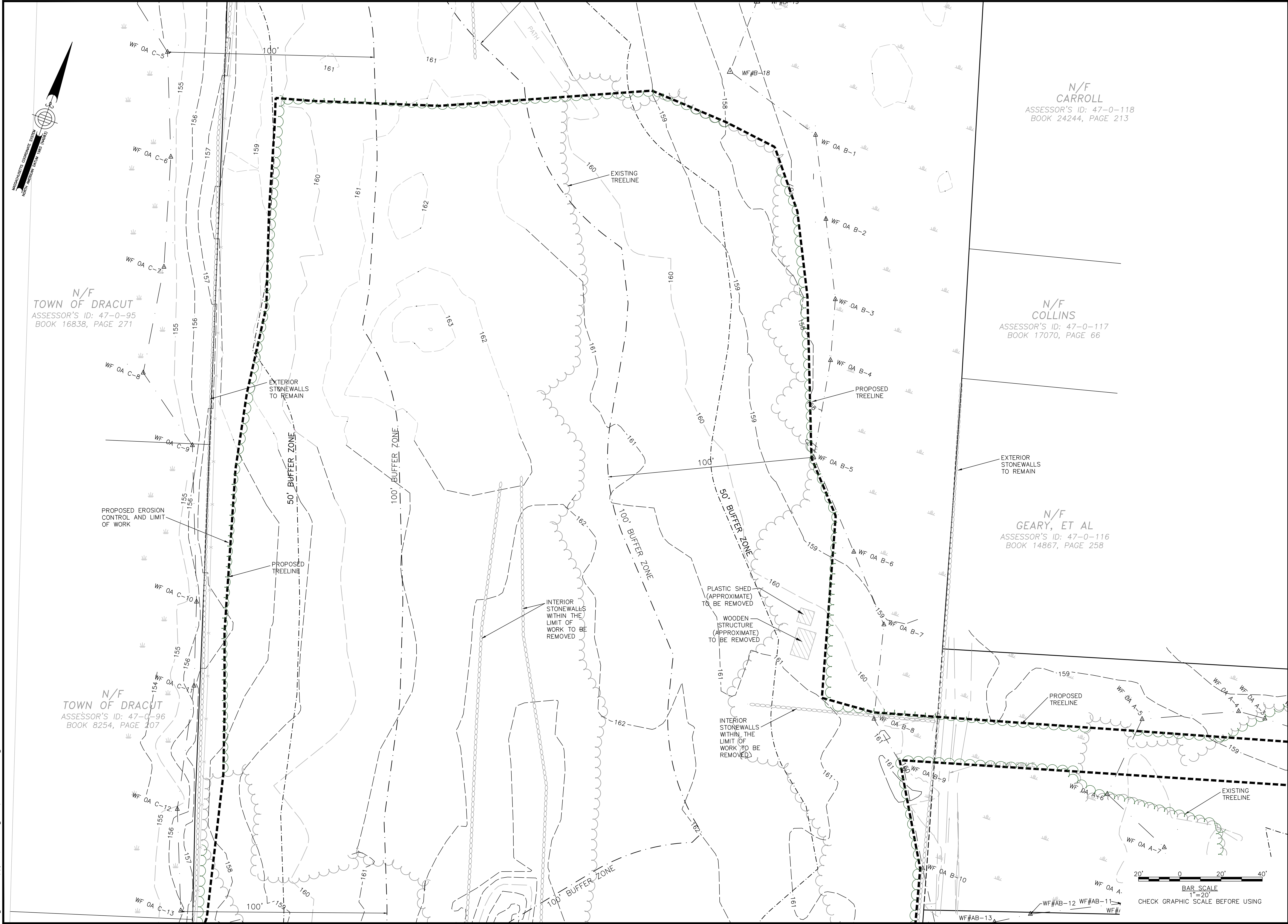
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EXISTING
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C-1.1

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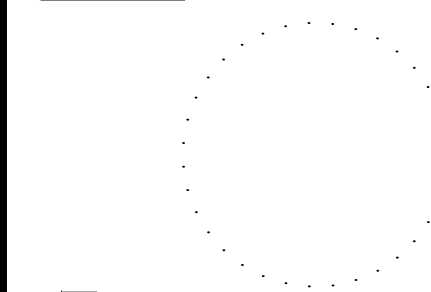
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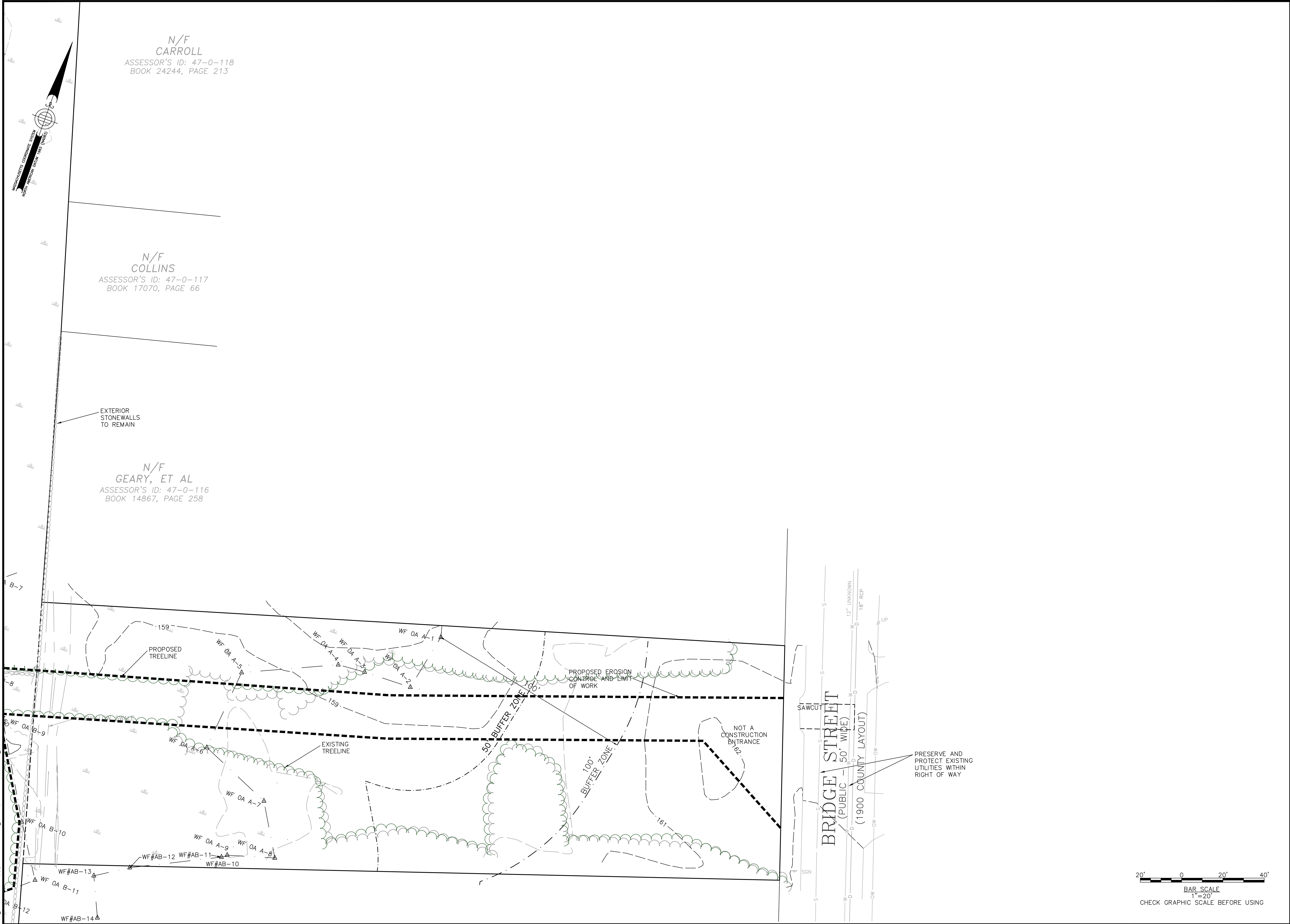
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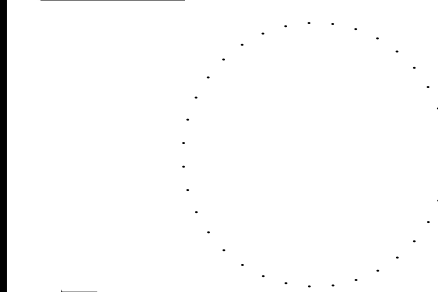
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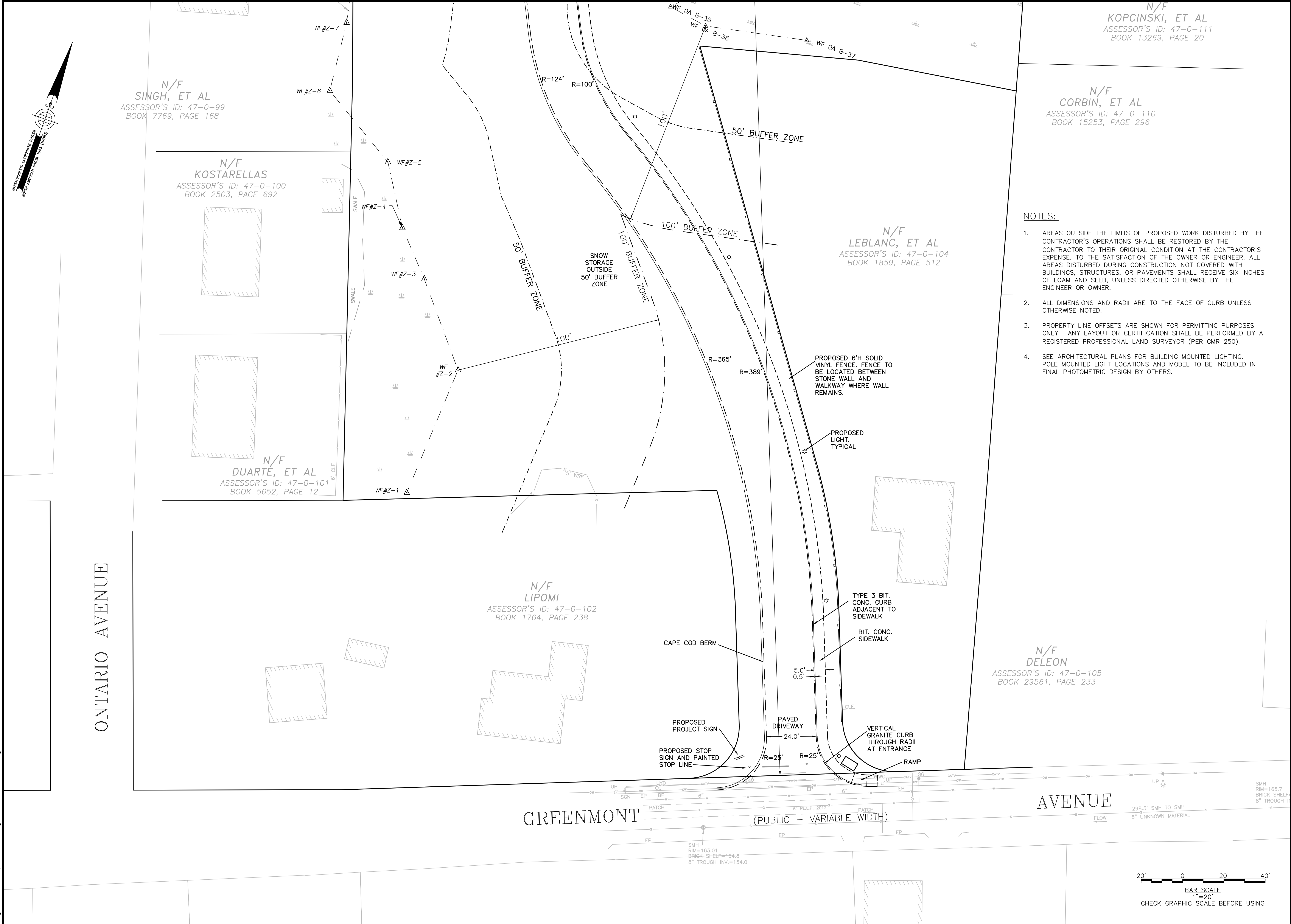
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AVENUE

GREENMONT

(PUBLIC - VARIABLE WIDTH)

20' 0 20' 40'
BAR SCALE
1"=20'
CHECK GRAPHIC SCALE BEFORE USING

NOTES:

1. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE OWNER OR ENGINEER. ALL AREAS DISTURBED DURING CONSTRUCTION NOT COVERED WITH BUILDINGS, STRUCTURES, OR PAVEMENTS SHALL RECEIVE SIX INCHES OF LOAM AND SEED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR OWNER.
2. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
3. PROPERTY LINE OFFSETS ARE SHOWN FOR PERMITTING PURPOSES ONLY. ANY LAYOUT OR CERTIFICATION SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL LAND SURVEYOR (PER CMR 250).
4. SEE ARCHITECTURAL PLANS FOR BUILDING MOUNTED LIGHTING. POLE MOUNTED LIGHT LOCATIONS AND MODEL TO BE INCLUDED IN FINAL PHOTOMETRIC DESIGN BY OTHERS.



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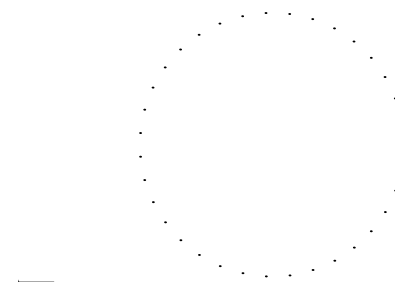
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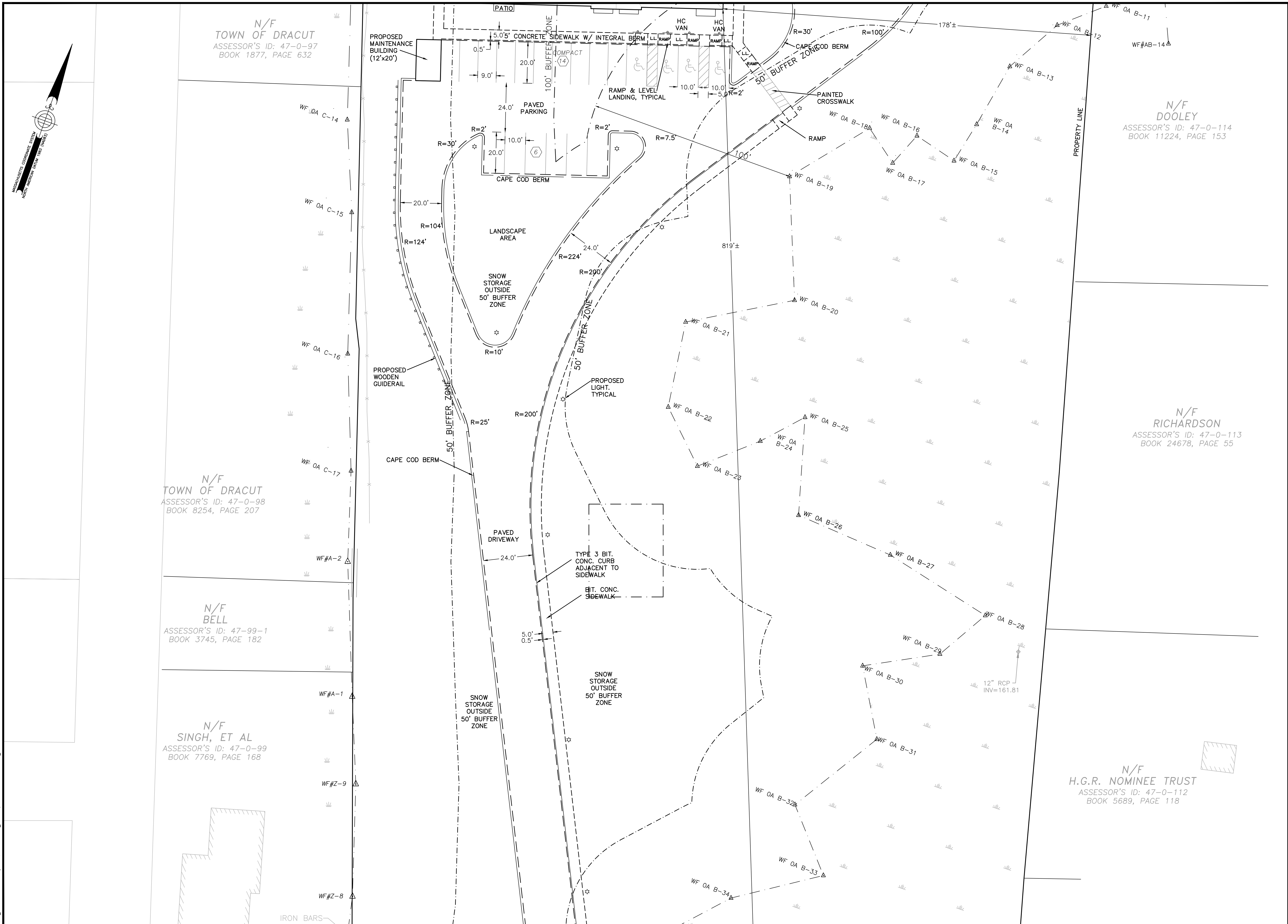
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LAYOUT AND
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PLAN

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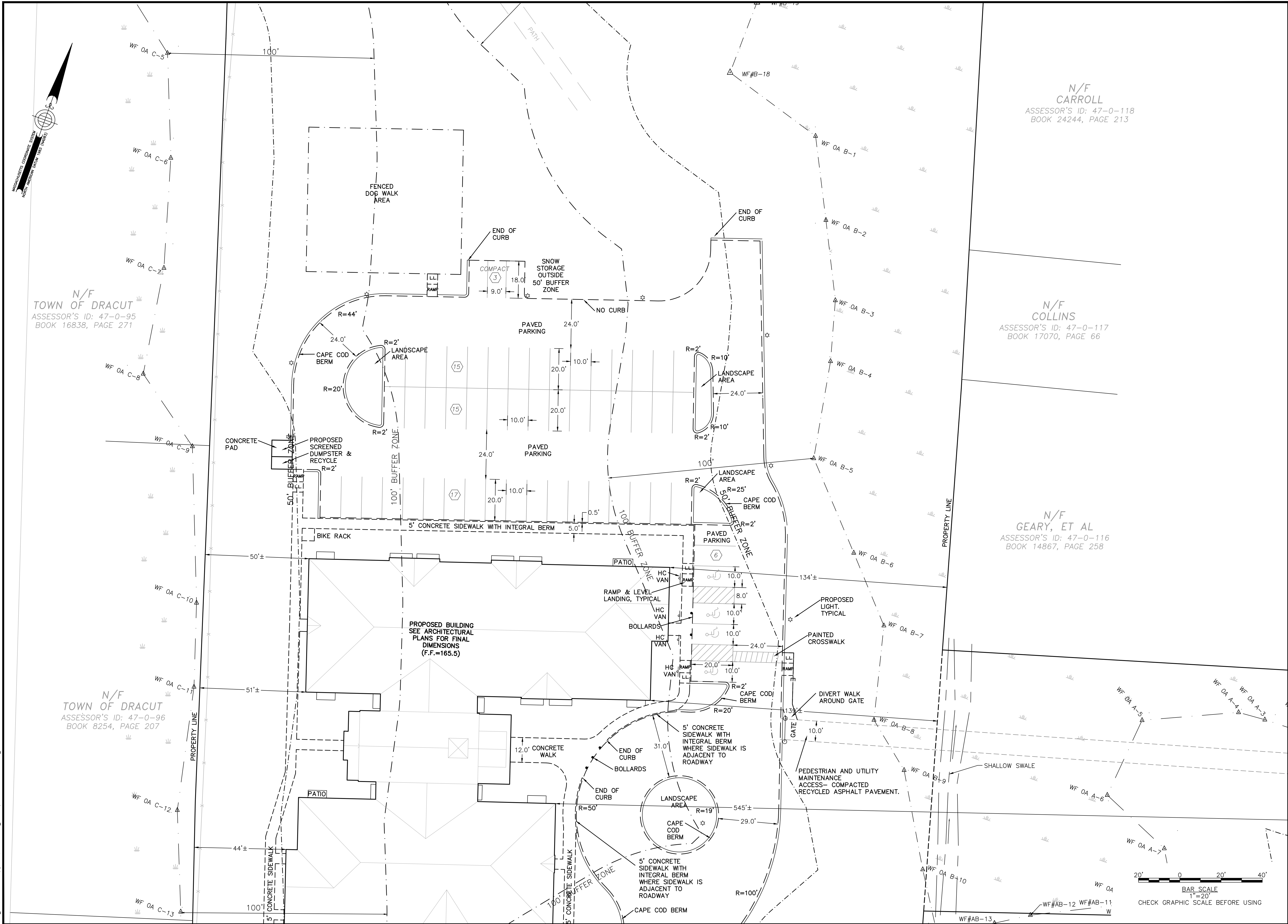
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LAYOUT AND MATERIALS PLAN

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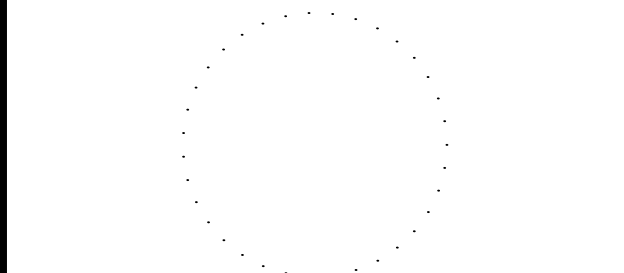
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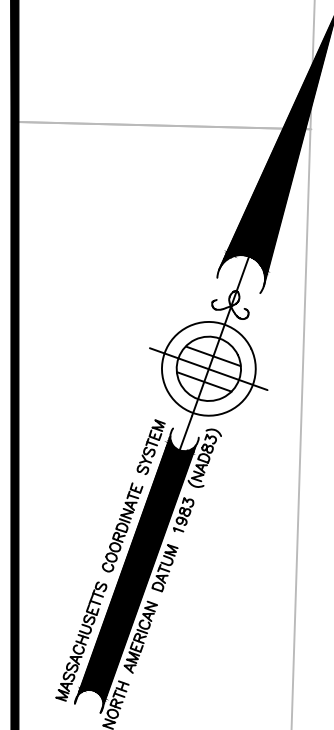
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N/F
SINGH, ET AL
ASSESSOR'S ID: 47-0-99
BOOK 7769, PAGE 168

N/F
KOSTARELLAS
ASSESSOR'S ID: 47-0-100
BOOK 2503, PAGE 692

N/F
DUARTE, ET AL
ASSESSOR'S ID: 47-0-101
BOOK 5652, PAGE 12

N/F
LIPOMI
ASSESSOR'S ID: 47-0-102
BOOK 1764, PAGE 238

N/F
LEBLANC, ET AL
ASSESSOR'S ID: 47-0-104
BOOK 1859, PAGE 512

GRADING & DRAINAGE NOTES:

1. SEE ARCHITECTURAL PLANS FOR DETAILS ADJACENT TO BUILDINGS.
2. SEE ELECTRICAL PLANS FOR SITE LIGHTING REQUIREMENTS AND ROUTING OF MISCELLANEOUS CONDUIT.
3. SEE SHEET C-1 FOR LEGEND AND ADDITIONAL NOTES AND INFORMATION.
4. IF ANY STRUCTURES THAT ARE 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.
5. SPOT GRADES ARE TO BE BLENDED IN A UNIFORM MANNER TO THE ADJACENT SPOT GRADE OR CONTOUR.
6. UNLESS OTHERWISE NOTED, ALL CURBING HAS AN EXPOSED HEIGHT OF 0.5 FEET.
7. ALL DISTURBED SURFACES ARE TO BE STABILIZED BY THE CONSTRUCTION OF A HARD DURABLE SURFACE (PAVEMENT OR RIP-RAP), BY LOAM AND SEED, OR AS OTHERWISE SHOWN.
8. THIS PLAN DEPICTS SITE GRADING AND DRAINAGE, SEE OTHER PLANS FOR LOCATIONS, CONSTRUCTION AND TYPES OF OTHER UTILITIES, SITE FEATURES AND RELATED CONSTRUCTION.
9. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
10. ALL AREAS INDICATED AS PADS SHALL BE CONCRETE, SEE DETAIL.
11. ALL SLOPES OF 3:1 (HORZ. TO VERT.) OR STEEPER ARE TO BE CONSIDERED "STABILIZED SLOPES" AND SHALL HAVE EROSION CONTROL NETTING INSTALLED.
12. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
13. SEE PLUMBING PLANS FOR ALL ROOF DRAIN CONNECTIONS. CONTRACTOR SHALL ACCOMMODATE ALL ROOF DRAIN CONNECTIONS WETHER DEPICTED ON THIS PLAN OR NOT.
14. ACCESSIBLE ROUTES AND LOADING & UNLOADING AREAS DEPICTED WITH A HATCH PATTERN SHALL HAVE NO SLOPE GREATER THAN 2% IN ANY DIRECTION, AT ANY LOCATION. SIDEWALKS SHALL HAVE A PATH OF TRAVEL OF NOT EXCEEDING 5% AND CROSS SLOPES NOT EXCEEDING 2%. MEASUREMENTS SHALL BE MADE WITH A TWO FEET LONG "SMART LEVEL" AFTER CONSTRUCTION. SEE REQUIREMENTS OF MASS. ARCHITECTURAL ACCESS BOARD (521 CMR)



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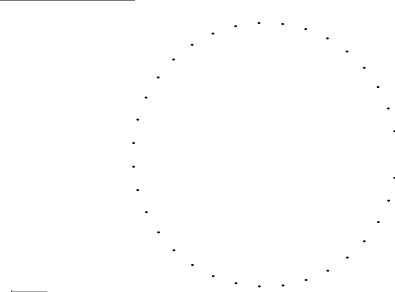
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GRADING AND
DRAINAGE PLAN

SHEET NO.

C-3.0

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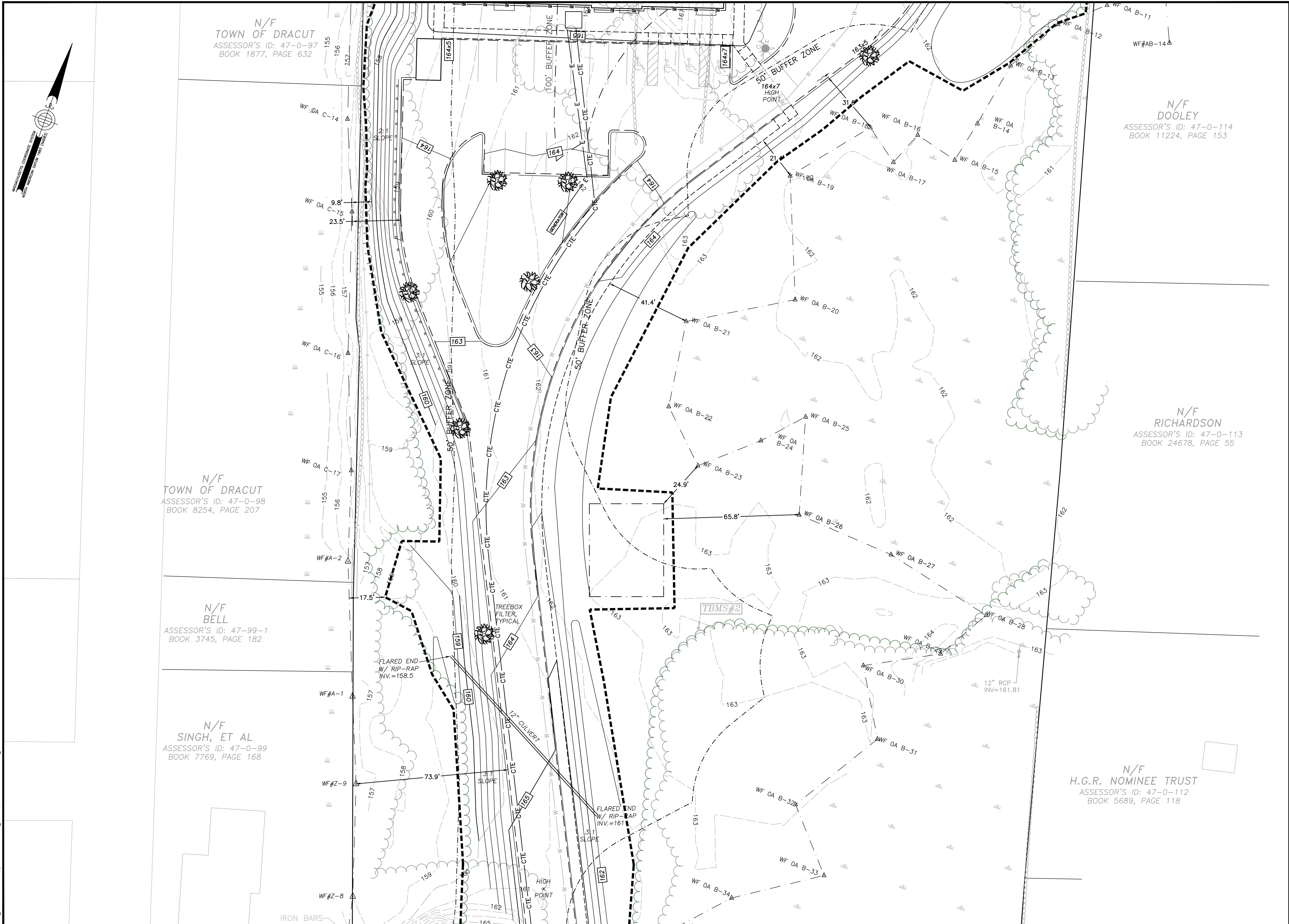
ONTARIO AVENUE

GREENMONT

AVENUE

20' 0 20' 40'
BAR SCALE
1"=20'
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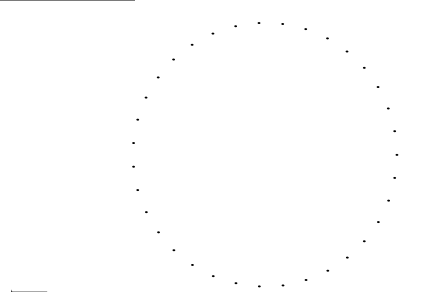
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GRADING AND
DRAINAGE PLAN

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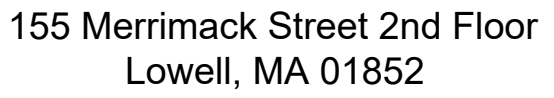
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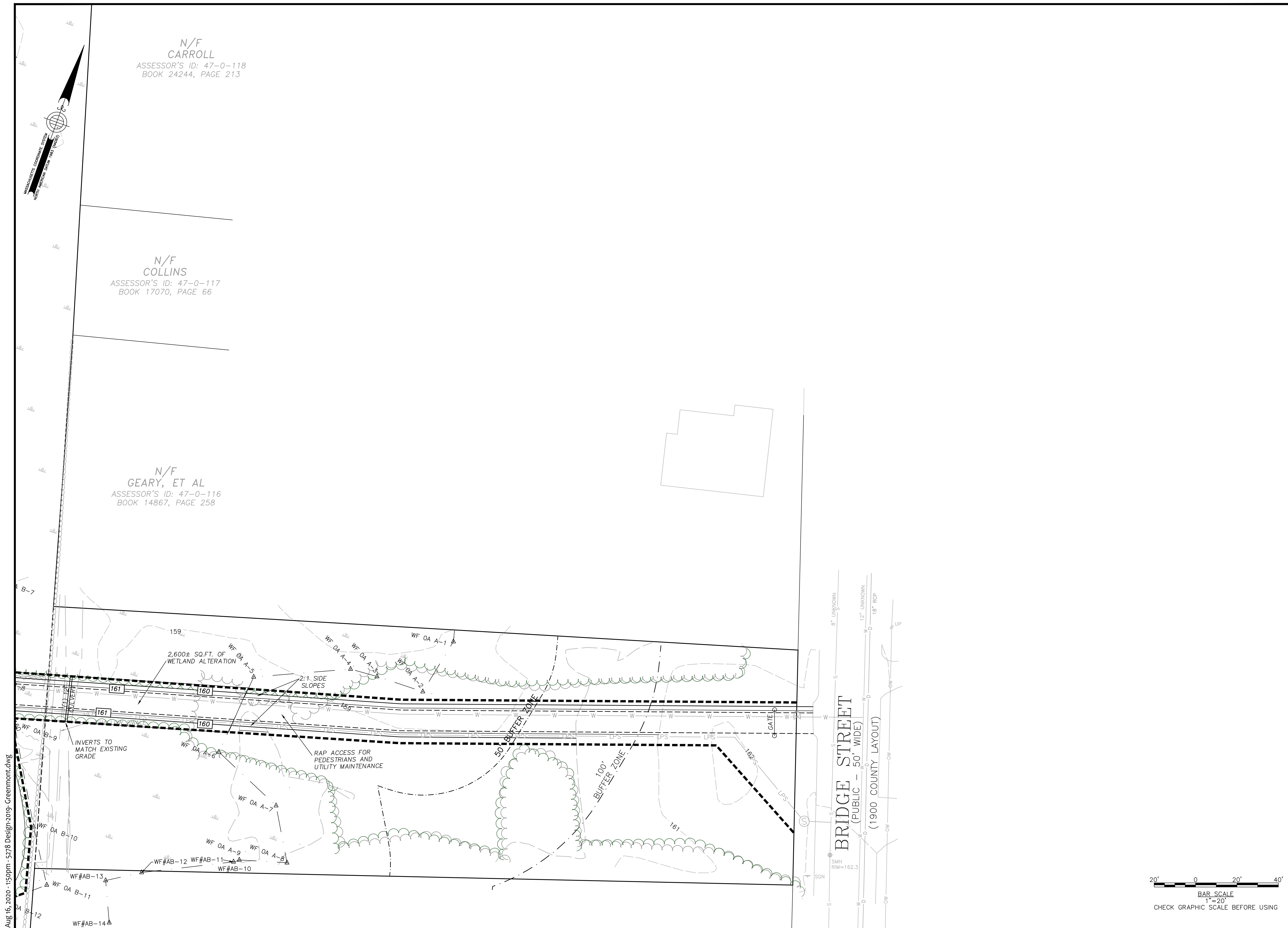
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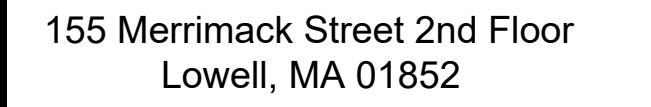
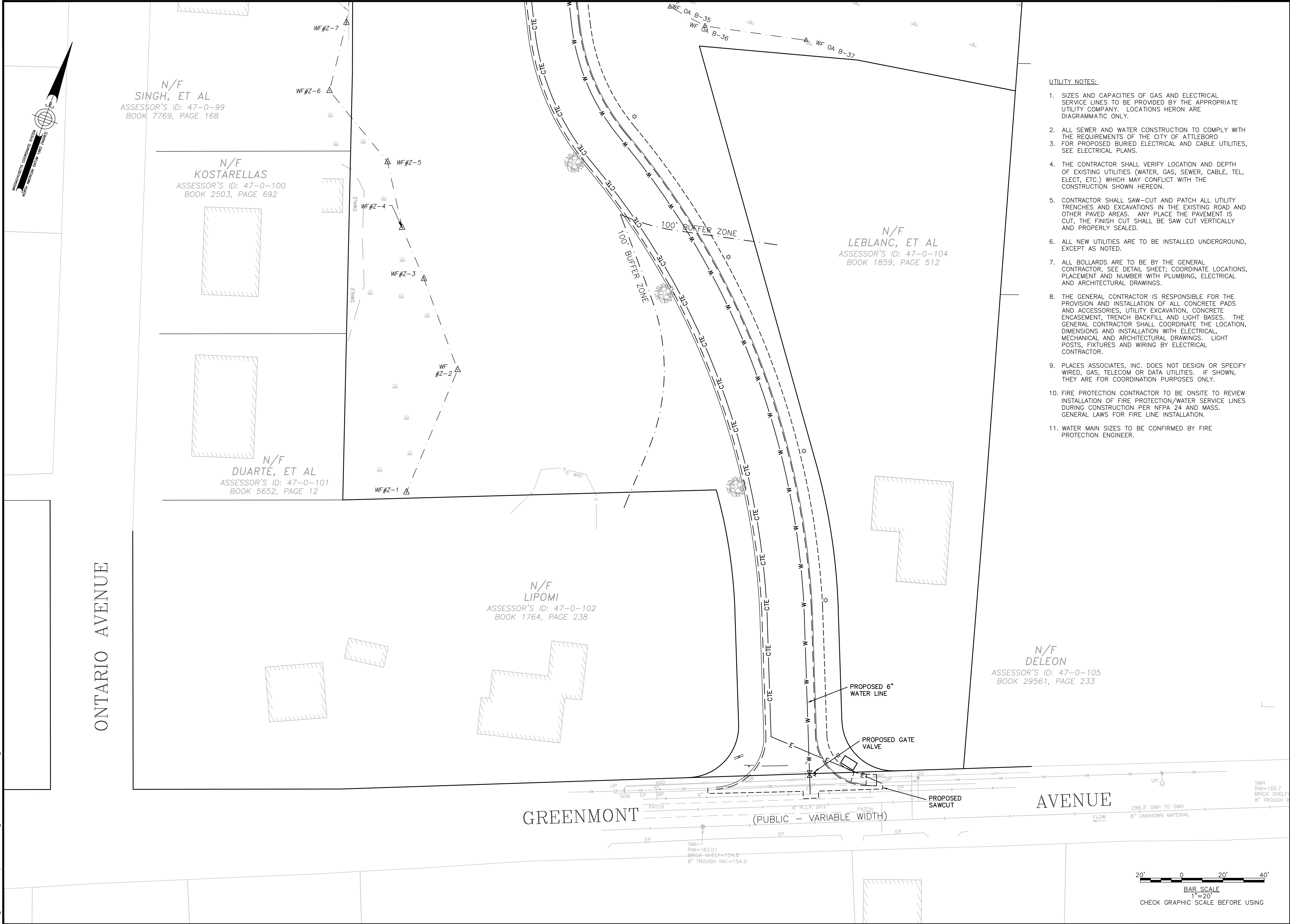
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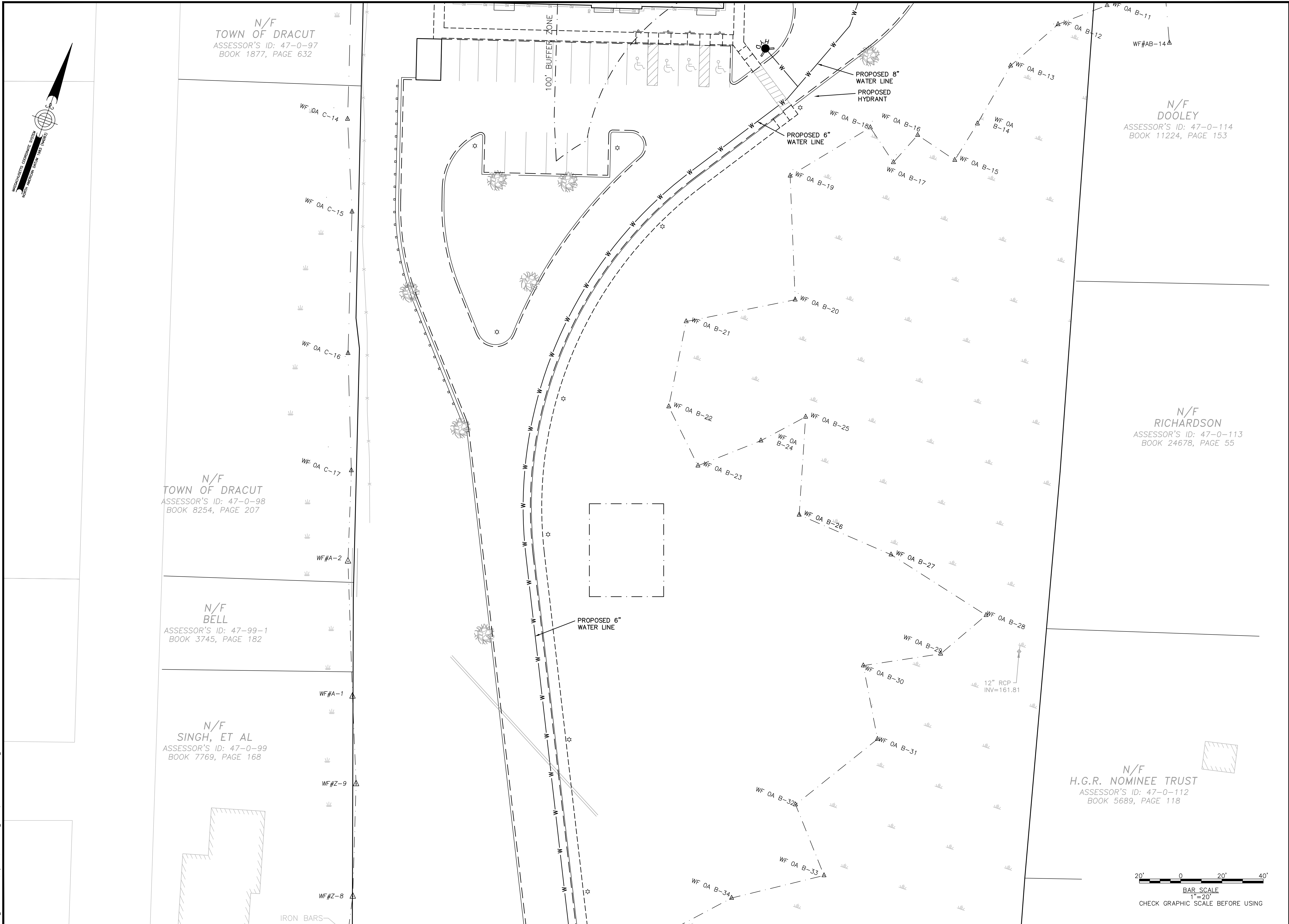
UTILITY PLAN

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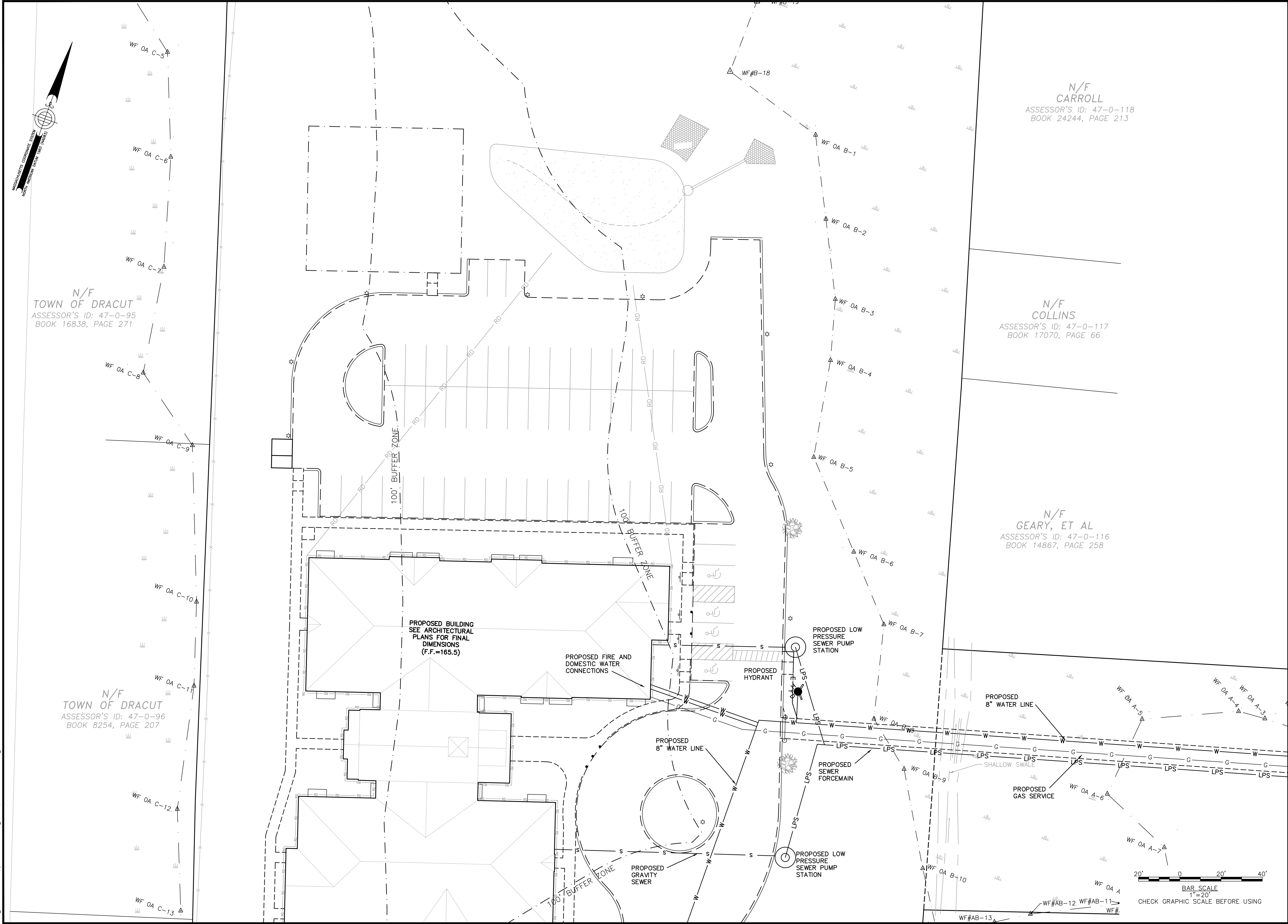
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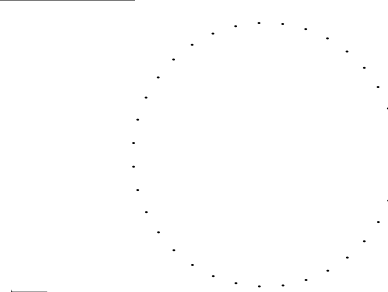
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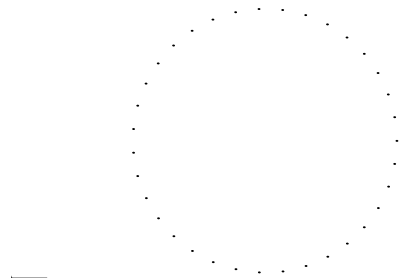
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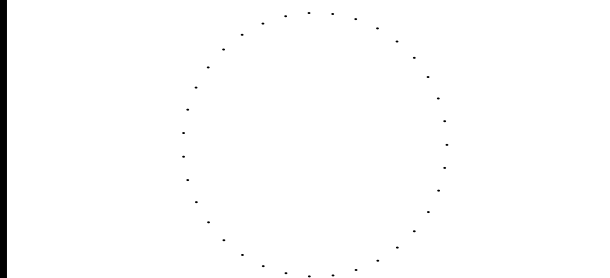
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133 Lincoln Street, Boston MA 02111 617-350-7420
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Issue		
No.	Description	Date
01	50% SCHEMATIC	10/23/19
02	PERMIT SET	1/20/2020
03	REVIEW COMMENTS	8/13/2020

DRAWING TITLE
POSTDEV
DRAINAGE
WORKSHEET

SHEET NO.

POST

PROJECT NO. 5278
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DRAINAGE SYSTEM OPERATIONS & MAINTENANCE PLAN EROSION & SEDIMENTATION CONTROL PLAN

STORM WATER COLLECTION SYSTEM:

THE STORMWATER COLLECTION SYSTEM SERVING THIS SITE IS INTENDED TO BOTH COLLECT STORM WATER RUNOFF AND TO PROVIDE TREATMENT OF THE STORMWATER PRIOR TO ITS DISCHARGE. THIS SYSTEM COLLECTS RUNOFF GENERATED FROM THE SITE THROUGH THE USE OF STORMWATER BEST MANAGEMENT PRACTICES (BMP'S). WHEN THESE BASIC CONTROL MECHANISMS ARE FUNCTIONING PROPERLY THEY PROVIDE FOR A REDUCTION OF CONTAMINANTS AND DEBRIS ENTERING THE STORMWATER COLLECTION SYSTEMS, AND THEREFORE DOWNSTREAM RECEIVING WATERS/WETLANDS.

STORMWATER SYSTEMS RELY UPON PROPER MONITORING, OPERATIONS AND MAINTENANCE TO FUNCTION AS DESIGNED AND INTENDED. A PROGRAM OF MONITORING, OPERATIONS AND MAINTENANCE MUST BE ONGOING THROUGHOUT THE LIFE AND USE OF THE SITE, AND IS THE OWNER'S RESPONSIBILITY SOLELY. THESE ACTIVITIES, AS DESCRIBED BELOW, ARE TO BE INITIATED AFTER COMPLETION OF THE PROJECT AND ARE NOT RELATED TO THE CONSTRUCTION OF THE SITE, EXCEPT AS SPECIFICALLY PROVIDED. THIS PLAN IS SPECIFICALLY FOR SITE-RELATED ACTIVITIES, NOT ACTIVITIES WHICH ARE INTERIOR TO BUILDINGS, THOUGH THERE ARE NECESSARY IMPLICATIONS AND CORRELATION'S BETWEEN THE TWO.

MONITORING:

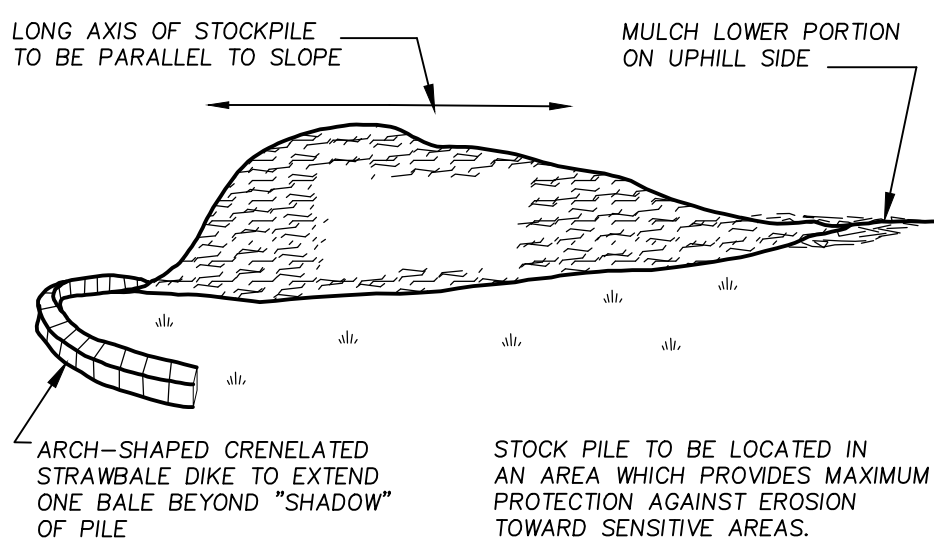
THE DRAINAGE SYSTEMS ARE REQUIRED TO BE MONITORED BY THE DESIGNATED SYSTEM MANAGER. THE NAME, ADDRESS AND DAY AND NIGHT (OR EMERGENCY) TELEPHONE NUMBER OF THIS PERSON OR ENTITY SHALL BE PROVIDED TO THE CITY/TOWN PRIOR TO THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE OF CONSTRUCTION. THIS INDIVIDUAL SHALL BE REQUIRED TO KEEP A LOG OF ALL REQUIRED INSPECTIONS, OBSERVATIONS AND MAINTENANCE ACTIVITIES DRAINAGE SYSTEM COMPONENTS SHALL BE REFERRED TO BY SPECIFIC LOCATION OR THE DESIGN PLAN DESIGNATION, (E.G. CTB # 10) TO AVOID CONFUSION OR MISIDENTIFICATION THE LOG SHALL BE MADE AVAILABLE TO ANY MUNICIPAL OR STATE AGENCY HAVING JURISDICTION WITHIN TEN (10) DAYS OF A WRITTEN REQUEST BY THAT AGENCY.

MONITORING FOR THIS SITE SHALL CONSIST OF THE FOLLOWING:

1. ALL CATCHBASINS SHALL BE INSPECTED TO ENSURE THEY ARE WATER-TIGHT (HOLDING WATER), HAVE ADEQUATE SUMP CAPACITY, ALL OIL/GAS TRAPS ARE IN-PLACE, ALL GRATES AND FRAMES ARE FREE FROM STRUCTURAL DAMAGE, AND ARE DRAINING FREELY. THIS MONITORING SHALL OCCUR AT A MINIMUM OF FOUR (4) MONTH INTERVALS (QUARTERLY).
2. ALL DRAINAGE MANHOLES SHALL BE INSPECTED TO ENSURE THAT THEY ARE WATER-TIGHT, ALL LIDS AND FRAMES ARE FREE FROM STRUCTURAL DAMAGE, ARE DRAINING FREELY AND ARE NOT PONDING WATER. THIS MONITORING SHALL OCCUR A MINIMUM OF ONCE PER YEAR.
3. OTHER DRAINAGE SYSTEMS SHALL BE INSPECTED TO ENSURE THAT NO EROSION IS OCCURRING AT OUTLETS, ARE FREE-FLOWING AND NO DAMAGE HAS OCCURRED AS PART OF SITE MAINTENANCE OR ACTIVITIES.
4. PROVIDE MAINTENANCE AND MONITORING OF THESE AND OTHER COMPONENTS AS SPECIFIED IN THE OPERATION AND MAINTENANCE MANUAL (O&M).

OPERATIONS:

1. GOOD HOUSE KEEPING AND MATERIAL MANAGEMENT REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF. A POLLUTION PREVENTION PLAN SHALL BE DEVELOPED WHICH SHALL INCLUDE THE FOLLOWING AT A MINIMUM:
 - 1.1. ALL MATERIALS STORED ON-SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
 - 1.2. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
 - 1.3. SUBSTANCES SHOULD NOT BE MIXED WITH ONE ANOTHER, UNLESS RECOMMENDED BY THE MANUFACTURER.
 - 1.4. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF A CONTAINER.
 - 1.5. THE SYSTEM'S MANAGER SHALL INSPECT THE SITE DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE, DURING ALL CONSTRUCTION PHASES.
 - 1.6. ORIGINAL MATERIALS LABELS AND MATERIAL SAFETY DATA SHEETS SHALL BE KEPT; THEY RETAIN IMPORTANT INFORMATION.
 - 1.7. ALL ONSITE VEHICLES AND PARKING AREAS SHALL BE REGULARLY MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO PREVENT LEAKAGE.
 - 1.8. PETROLEUM PRODUCTS SHALL BE STORED UNDER COVER AND SHALL BE IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.
 - 1.9. FERTILIZERS SHALL ONLY BE USED IN THE MINIMUM AMOUNTS AS RECOMMENDED BY THE MANUFACTURER.
 - 1.10. THE CONTENTS OF ANY UNUSED FERTILIZER SHALL BE TRANSFERRED TO A CLEARLY LABELED, SEALABLE PLASTIC BIN, TO AVOID SPILLAGE.
 - 1.11. ALL PAINTS AND SOLVENTS SHALL BE STORED IN ORIGINAL MANUFACTURER'S CONTAINERS IN A COVERED LOCATION.
 - 1.12. THE USE OF PAINTS AND SOLVENTS SHALL, WHENEVER POSSIBLE, BE LIMITED TO SERVICE OR STORAGE BAYS AND NOT IN PARKING OR ACCESS WAYS THAT ARE TRIBUTARY TO THE DRAINAGE SYSTEM.
2. SPILL CONTROL PRACTICES:
 - 2.1. MANUFACTURER'S RECOMMENDED METHODS SHALL BE CLEARLY POSTED FOR SPILL CLEANUP AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF CLEANUP INFORMATION AND SUPPLIES.
 - 2.2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT ON-SITE IN A DESIGNATED MATERIAL STORAGE AREA. EQUIPMENT WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, ABSORBENT MATERIALS, SAND, SAWDUST AND PLASTIC & METAL TRASH CONTAINERS SPECIFICALLY KEPT AND LABELED FOR THIS PURPOSE.
 - 2.3. ALL SPILLS WILL BE CLEANED-UP IMMEDIATELY AFTER DISCOVERY.
 - 2.4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL OR NATURE WILL BE REPORTED TO THE APPROPRIATE STATE, LOCAL OR FEDERAL AGENCY, AS REQUIRED BY-LAW. THE SPILL PREVENTION PLAN WILL INCLUDE PROVISIONS TO ADAPT THE PLAN TO ENSURE THAT SPILLS WILL NOT REOCCUR, AND HOW TO CLEANUP THE SPILL IF THERE IS ANOTHER ONE.
 - 2.5. SITE OPERATIONS AND DAILY USE SHALL CONSIDER THE ULTIMATE DISPOSITION OF STORMWATER AND OTHER SITE-GENERATED FORMS OF RUNOFF. THE WASHING OF VEHICLES SHALL BE LIMITED AREAS WITHIN THE BUILDING, AS THEY ARE SERVED BY THE FLOOR DRAIN SYSTEM. WASH WATER WITH ITS COMBINATION OF SOLVENTS, DETERGENTS AND OIL/GREASES SHOULD NOT BE ALLOWED TO ENTER ANY PART OF THE ON-SITE DRAINAGE SYSTEM.
4. SNOW PLOWING. SNOW PLOWING OPERATIONS SHALL STOCKPILE SNOW, ICE AND ACCUMULATED MATERIALS IN AREAS WHERE SNOW WILL FLOW INTO THE ON-SITE DRAINAGE SYSTEMS. NO PLOWING OR STORAGE OF SNOW INTO WETLANDS.
5. SALT USE SITE-WIDE SHALL BE APPLIED TO THE MINIMUM EXTENT POSSIBLE TO MAINTAIN SAFE CONDITIONS, AND ONLY IF NOT SPECIFICALLY EXCLUDED BY ANY SPECIAL CONDITIONS.



TEMPORARY STOCKPILE
NOT TO SCALE

MAINTENANCE:

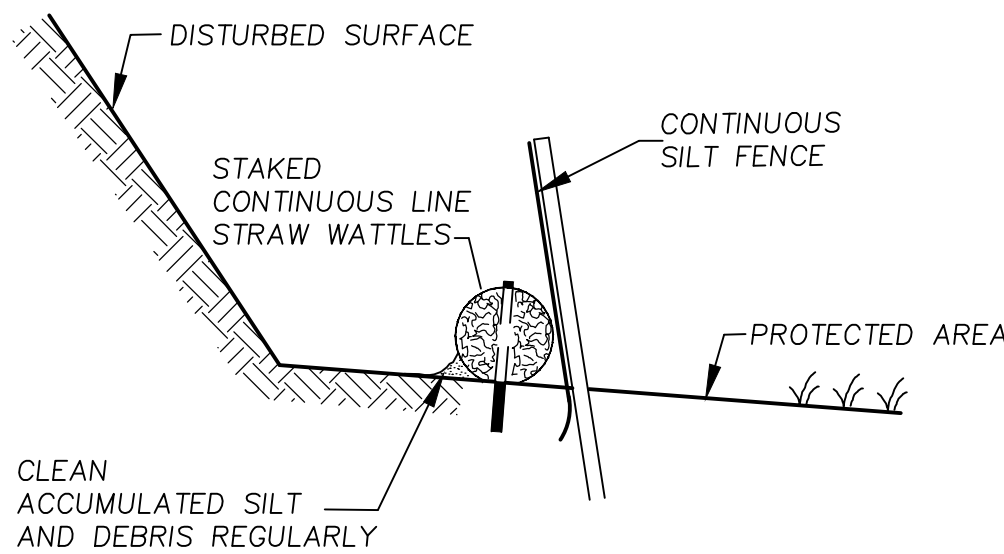
1. PARKING AREAS, ROAD AND ACCESS WAYS AND GUTTERS SHALL BE SWEEPED CLEAN OF DEBRIS AND ACCUMULATION ON A REGULAR BASIS. AT A MINIMUM, A SPRING AND FALL CLEANING SCHEDULE IS RECOMMENDED.
2. ALL CATCHBASINS SHALL HAVE THE SUMPS CLEANED AT ANY TIME OF THE YEAR WHEN 2" OR LESS SPACE EXISTS BELOW THE OUTLET INVERT, OR A MINIMUM OF ONCE PER YEAR, REGARDLESS OF SUMP ACCUMULATION. ALL DEBRIS FROM THE CLEANING SHALL BE DISPOSED OF OFF-SITE AND IN A MANNER AS PROSCRIBED BY LAW.
3. ALL HYDROCARBON TRAPS SHALL BE CHECKED FOR PHYSICAL INTEGRITY AND SEALED IMMEDIATELY AFTER EACH CATCHBASIN CLEANING.
4. OIL ABSORBING "PILLOWS" OR OTHER MEANS SHALL BE USED TO REMOVE ACCUMULATIONS OF HYDROCARBONS (OIL/GREASE) IN CATCHBASINS THAT ARE REGULARLY OBSERVED TO CONTAIN HYDROCARBONS, WHICH DO NOT EVAPORATE BETWEEN INSPECTIONS.
5. ALL BROKEN, LEAKING OR OTHERWISE DAMAGED STRUCTURES SHALL BE REPAIRED PROMPTLY UPON DISCOVERY. CATCHBASIN GRATES OR MANHOLE LIDS SHALL BE REPLACED WITH SIMILAR WEIGHT AND LOADING CHARACTERISTIC REPLACEMENT PARTS.
6. ALL EROSION SHALL BE REPAIRED.
7. THE REPLACEMENT OF ANY PIPE OR DRAINAGE STRUCTURE SHALL MATCH THE ORIGINAL DESIGN SPECIFICATIONS.
4. PROVIDE MAINTENANCE AND MONITORING AS SPECIFIED IN THE OPERATION AND MAINTENANCE MANUAL (O&M).

NPDES GENERAL NOTES:

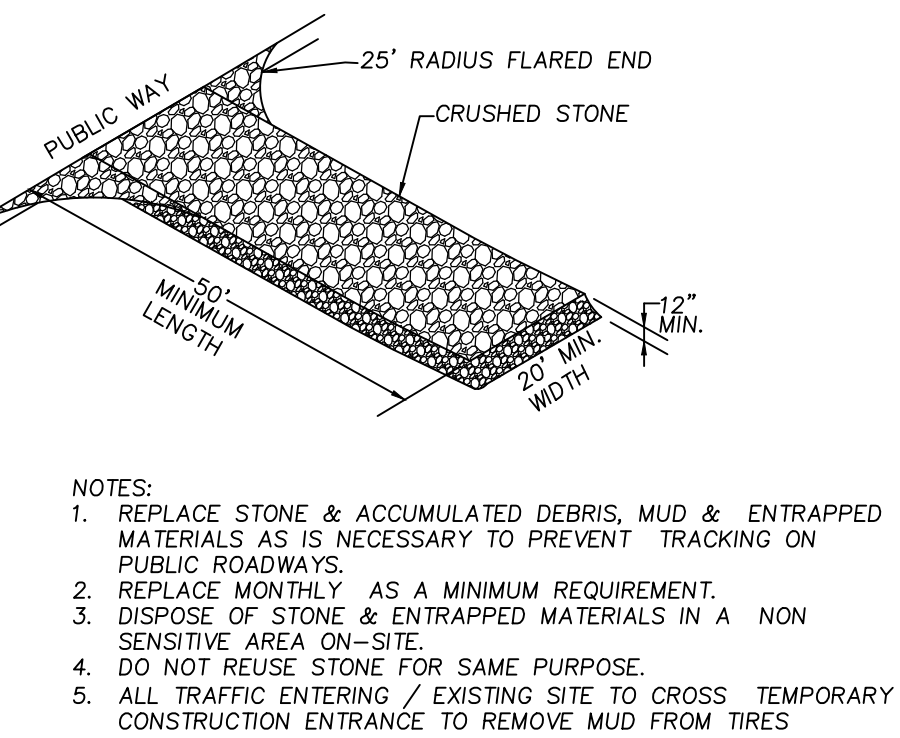
1. THIS PLAN IS INTENDED TO BE UTILIZED AS PART OF THE INFORMATION REQUIRED TOWARD MEETING THE NATIONAL STORM WATER POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) OF SECTION 402 OF THE FEDERAL CLEAN WATER ACT. THE CONSTRUCTION OF DRIVEWAYS, PARKING AREAS, BUILDINGS AND APPURTENANT STRUCTURES WILL RESULT IN MORE THAN 1 ACRE OF TOTAL DISTURBED AREA, REQUIRING THE SUBMITTAL OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS SITE.
2. IT IS ANTICIPATED THAT THE SITE AS DESIGNED WILL MEET THE CRITERIA FOR A NPDES GENERAL PERMIT. THE SUBMISSION OF THE NPDES NOTICE OF INTENT (NPDES NOI), THIS PLAN AND SUPPORTING DOCUMENTATION MUST BE POSTMARKED A MINIMUM OF TWO (2) WEEKS PRIOR TO THE INITIATION OF ANY SITE DISTURBANCE OR CONSTRUCTION, WHICH SHALL NOT COMMENCE UNTIL AN ORDER OF CONDITIONS HAS BEEN ISSUED.
3. A COPY OF THE NPDES SUBMITTAL AND THIS PLAN MUST BE KEPT ON-SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE MADE AVAILABLE TO ALL INTERESTED PARTIES.
4. RECORDS MUST BE MAINTAINED BY THE PERMITEE FOR A PERIOD OF THREE (3) YEARS FROM THE DATE OF STABILIZATION OF THE SITE. STABILIZATION OCCURS WHEN THE SITE HAS OVER 70% VEGETATIVE GROWTH AND/OR MECHANICAL STABILIZATION THROUGHOUT FOR ONE COMPLETE GROWING SEASON.
5. ALL INSPECTIONS SHALL BE CONDUCTED BY QUALIFIED PERSONNEL, WHO SHALL PRODUCE WRITTEN QUANTITATIVE AND QUALITATIVE REPORTS ON THE METHODS, SUITABILITY OF STRUCTURES AND THE GENERAL CONSTRUCTION.
6. INSPECTIONS ARE REQUIRED DURING SITE ALTERATIONS A MINIMUM OF ONCE EVERY SEVEN (7) DAYS WHILE SURFACES ARE UNSTABILIZED.
7. INSPECTIONS ARE REQUIRED WITHIN 24 HOURS OF STORMS WHICH PRODUCE 0.25" OF PRECIPITATION OR GREATER.
8. WHEN THE SITE IS FULLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT MONTHLY INTERVALS FOR A PERIOD OF 3 YEARS OR AS SPECIFIED IN THE O&M AND/OR SWPPP.

LOCAL PERMITTING:

1. THIS PLAN IS PART OF A SET OF DOCUMENTS WHICH INCLUDE LOCAL PERMITS, LOCAL REVIEW AND MODIFICATIONS TO PROPOSED SWPPP'S CREATED BY THE ABOVE LISTED CRITERIA.
2. CONTRACTORS SHALL ACCOMMODATE LOCAL REVIEW TIMELINES AS PART OF ALL SUBMISSIONS FOR SWPPP'S.



EROSION CONTROL BARRIER
NOT TO SCALE



- NOTES:
1. REPLACE STONE & ACCUMULATED DEBRIS, MUD & ENTRAPPED MATERIALS AS IS NECESSARY TO PREVENT TRACKING ON PUBLIC ROADWAYS.
 2. REPLACE MONTHLY AS A MINIMUM REQUIREMENT.
 3. DISPOSE OF STONE & ENTRAPPED MATERIALS IN A NON SENSITIVE AREA ON-SITE.
 4. DO NOT REUSE STONE FOR SAME PURPOSE.
 5. ALL TRAFFIC ENTERING / EXITING SITE TO CROSS TEMPORARY CONSTRUCTION ENTRANCE TO REMOVE MUD FROM TIRES

TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE

GENERAL:

1. THIS PLAN IS PART OF A SET OF DOCUMENTS THAT ARE TO BE VIEWED AND REVIEWED IN THEIR ENTIRETY. SUCH DOCUMENTS INCLUDE THE CONSTRUCTION SPECIFICATIONS, CONSTRUCTION PLAN AND ANY PERMITS ISSUED BY THE CITY/TOWN OR OTHER REGULATORY AGENCIES.
2. THIS IS A PERFORMANCE SPECIFICATION WHICH THE CONTRACTOR SHALL APPLY APPROPRIATE MEANS AND METHODS TO ACHIEVE.

EROSION CONTROL MEASURES:

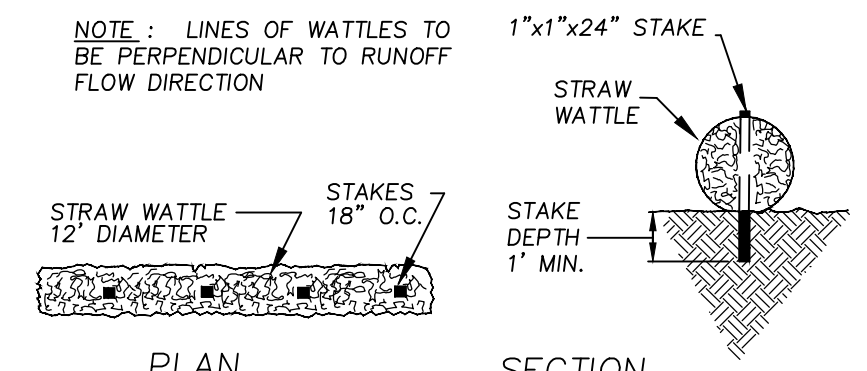
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EROSION AND SEDIMENTATION ARE CONTROLLED. THIS PLAN SHALL BE ADAPTED TO FIT THE CONTRACTOR'S EQUIPMENT, WEATHER CONDITIONS, AND ANY ORDERS OF CONDITIONS ISSUED BY THE CITY/TOWN OR ANY OTHER REGULATORY AGENCY.
2. THE MOST IMPORTANT ASPECTS OF CONTROLLING EROSION AND SEDIMENTATION ARE LIMITING THE EXTENT OF DISTURBANCE AND STABILIZING SURFACES AS SOON AS POSSIBLE. OF SECONDARY IMPORTANCE IN EROSION CONTROL IS THE LIMITING THE SIZE AND LENGTH OF THE TRIBUTARY DRAINAGE AREA WITHIN THE WORK SITE AND DRAINAGE STRUCTURES. THESE FUNDAMENTAL PRINCIPLES SHALL BE THE KEY FACTOR IN THE CONTRACTOR'S CONTROL OF EROSION ON THE SITE.
3. THE EXISTING SOIL CONDITIONS PROVIDE THE POTENTIAL OF RUNOFF TO OFF-SITE AREAS WITH EROSION POTENTIAL.
4. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY DIVERSION SWALES AND SETTLING BASINS IN AREAS OF FUTURE CONSTRUCTION. CONSTRUCTION IS PERMITTED BEYOND THE LIMIT OF DISTURBANCE ONLY WHEN ADDITIONAL DRAINAGE MEASURES OR STABILIZATION MEASURES ARE NEEDED, AND SHALL BE SUBJECT TO APPROVAL BY THE CITY/TOWN, PRIOR TO WORK OUTSIDE OF DESIGNATED LIMIT OF DISTURBANCE LINE. THE LIMIT OF DISTURBANCE LINE SHALL BE THE EROSION CONTROL BARRIER.
5. ALL DISTURBED SURFACES SHALL BE STABILIZED A MINIMUM OF 14 DAYS AFTER CONSTRUCTION IN ANY PORTION OF THE SITE HAS CEASED OR IS TEMPORARILY HALTED UNLESS ADDITIONAL CONSTRUCTION IS INTENDED TO BE INITIATED WITHIN 21 DAYS.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF ALL EROSION CONTROL DEVICES ON-SITE. ALL EROSION CONTROL DEVICES SHALL BE REGULARLY INSPECTED. ANY SEDIMENTS REMOVED FROM THE CONTROL DEVICES SHALL BE DISPOSED OF OUTSIDE OF THE 100' WETLANDS BUFFER ZONE.
7. AT NO TIME SHALL SILT-LADEN WATER BE ALLOWED TO ENTER SENSITIVE AREAS (WETLANDS, OFF-SITE AREAS AND DRAINAGE SYSTEMS). ANY RUNOFF FROM DISTURBED SURFACES SHALL BE DIRECTED THROUGH SETTLING BASINS AND EROSION CONTROL BARRIERS PRIOR TO ENTERING ANY SENSITIVE AREAS.

PRELIMINARY SITE WORK:

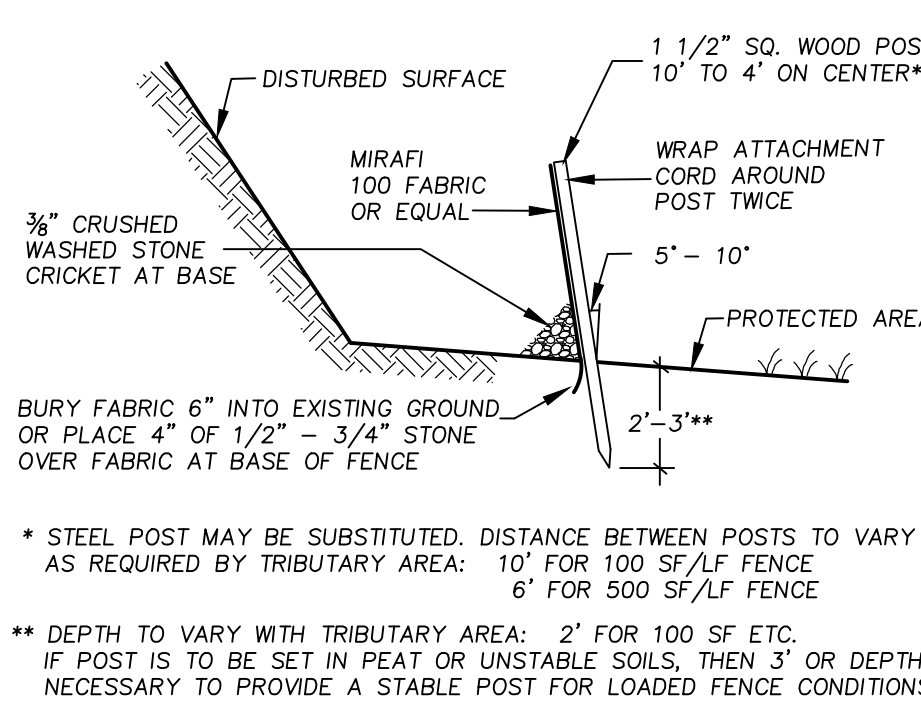
1. MATERIAL REMOVED SHOULD BE STOCKPILED, SEPARATING THE TOPSOIL FOR FUTURE USE ON THE SITE. EROSION CONTROLS SHALL BE UTILIZED ALONG THE DOWNSLOPE SIDE OF THE PILES IF THE PILES ARE TO REMAIN MORE THAN THREE WEEKS OR SUBJECT TO EROSION CONDITIONS SUCH AS INTENSE RAIN, WIND OR OTHER EXPOSURE. STOCKPILES SHALL BE LOCATED AS SPECIFIED HEREIN AND AS REQUIRED, SHOULD ADDITIONAL AREAS BE NEEDED THEY SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE, IN AREAS OF MINIMAL IMPACT. IF A STOCKPILE IS LOCATED ON A SLOPE, THE RUNOFF SHALL BE DIRECTED AWAY FROM THE PILE.
3. IF INTENSE RAINFALL IS ANTICIPATED, THE INSTALLATION OF SUPPLEMENTAL STRAWBALE DIKES, SILT FENCES, OR ARMORED DIKES SHALL BE UTILIZED.
4. IF THE SITE CONSTRUCTION OCCURS AT ANY TIME OTHER THAN THE MAY - NOVEMBER CONSTRUCTION SEASON, THE SITE DRAINAGE SYSTEM SHALL BE INSTALLED, MAINTAINING HYDRAULIC CAPACITY, PRIOR TO ANY ROUGH GRADING IN THE BUFFER ZONE.
5. INLET SEDIMENT CONTROL DEVICES SHALL BE INSTALLED ON ALL CATCHBASINS ADJACENT TO THE LIMIT OF WORK, EVEN IF OUTSIDE THE DELINEATED LIMIT OF WORK. THE GENERAL CONTRACTOR SHALL MONITOR AND EMPTY AND/OR REPLACE ON AN AS NEEDED BASIS.

DRAINAGE SYSTEM:

1. THE DRAINAGE SYSTEM SHALL BE INSTALLED FROM THE DOWNSTREAM END UP.
2. A SILT FENCE SHALL BE INSTALLED AT THE OUTFALL OF ALL TEMPORARY BASINS AND SWALES. IT SHALL REMAIN IN PLACE UNTIL ALL TRIBUTARY AREAS ARE STABILIZED.
3. WATER SHALL NOT BE ALLOWED TO ENTER PIPES FROM UN-STABILIZED SURFACES. SILT FENCE SHALL BE MONITORED, CLEANED & REPLACED AS NEEDED ON A REGULAR BASIS. SEE NPDES SWPPP REQUIREMENTS, IF APPLICABLE.
4. TRENCH EXCAVATIONS SHALL BE LIMITED TO THE MINIMUM LENGTH REQUIRED FOR DAILY PIPE INSTALLATION. ALL TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE. THE ENDS OF PIPES SHALL BE CLOSED NIGHTLY WITH PLYWOOD AND BACKER BOARD.
5. IF UNSTABLE AREAS ARE ENCOUNTERED DUE TO NATURAL SPRINGS OR GROUNDWATER BREAKOUT, INTERCEPTOR DRAINS SHALL BE INSTALLED TO DIRECT THE RUNOFF INTO THE DRAINAGE SYSTEM. SEE DETAILS.
6. IT IS IMPORTANT THAT THE BINDER COURSE, WITH BERMS, BE INSTALLED ON THE LIMITS OF THE PARKING LOT AND ACCESS ROADS AS SOON AS FEASIBLE AS THESE AREAS WILL FUNCTION AS A CONDUIT FOR RUNOFF.



STRAW WATTLES
NOT TO SCALE



- * STEEL POST MAY BE SUBSTITUTED. DISTANCE BETWEEN POSTS TO VARY AS REQUIRED BY TRIBUTARY AREA: 10' FOR 100 SF/LF FENCE 6' FOR 500 SF/LF FENCE

- ** DEPTH TO VARY WITH TRIBUTARY AREA: 2' FOR 100 SF ETC. IF POST IS TO BE SET IN PEAT OR UNSTABLE SOILS, THEN 3' OR DEPTH NECESSARY TO PROVIDE A STABLE POST FOR DETAILED FENCE CONDITIONS

SILT FENCE DETAIL
NOT TO SCALE

INSTALLATION OF UTILITIES:

1. CARE SHALL BE TAKEN TO ASSURE THAT THE UTILITY TRENCHES DO NOT CHANNELIZE RUNOFF TOWARDS EXISTING STREETS OR OTHER OFF-SITE AREAS.
2. THE INSTALLATION OF SUBSURFACE UTILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS.
3. TRENCH EXCAVATIONS SHALL BE LIMITED TO THE MINIMUM LENGTH REQUIRED FOR DAILY UTILITY INSTALLATION. ALL TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE.

LANDSCAPING:

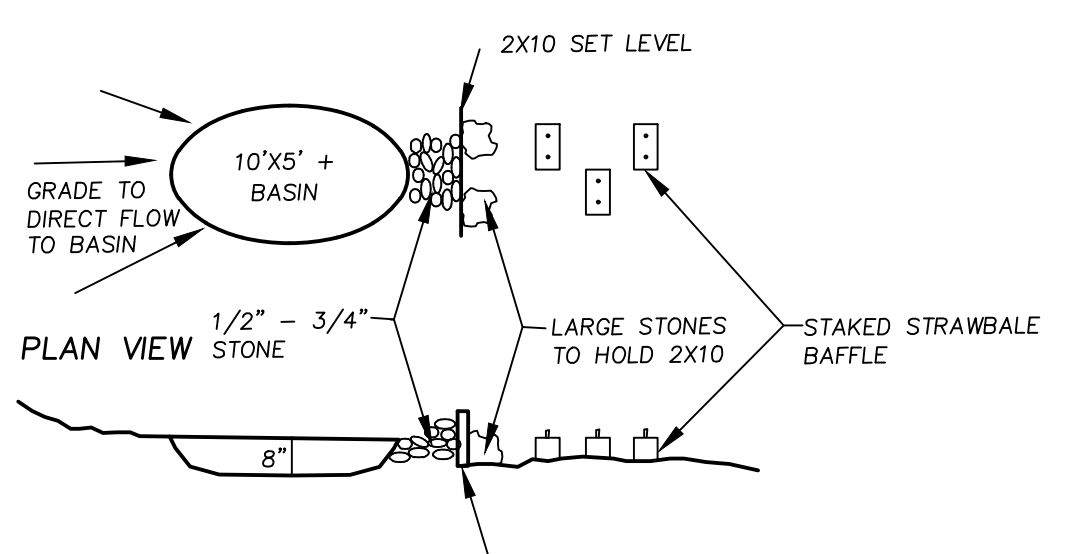
4. LANDSCAPING SHALL OCCUR AS SOON AS POSSIBLE TO PROVIDE PERMANENT STABILIZATION OF DISTURBED SURFACES.
5. CONTRACTOR SHALL UTILIZE A VARIETY OF SLOPE STABILIZATION METHODS AND MATERIALS WHICH SHALL BE ADJUSTED TO THE SITE CONDITIONS. EROSION CONTROL BLANKETS OR MIRAFI MIRAMAT (OR SIMILAR PRODUCTS) SHALL BE AVAILABLE ON SITE.
6. IF THE SEASON OR ADVERSE WEATHER CONDITIONS DO NOT ALLOW THE ESTABLISHMENT OF VEGETATION, TEMPORARY MULCHING WITH STRAW, TACKIFIED WOOD CHIPS OR OTHER METHODS SHALL BE PROVIDED.
7. A MINIMUM OF 6" TOPSOIL SHALL BE PLACED AND ITS SURFACE SMOOTHED TO THE SPECIFIED GRADES.
8. SEED APPLICATIONS SHALL BE IN ACCORDANCE WITH THE GRASS AND SLOPE COVER SPECIFICATIONS.

PRE-CONSTRUCTION:

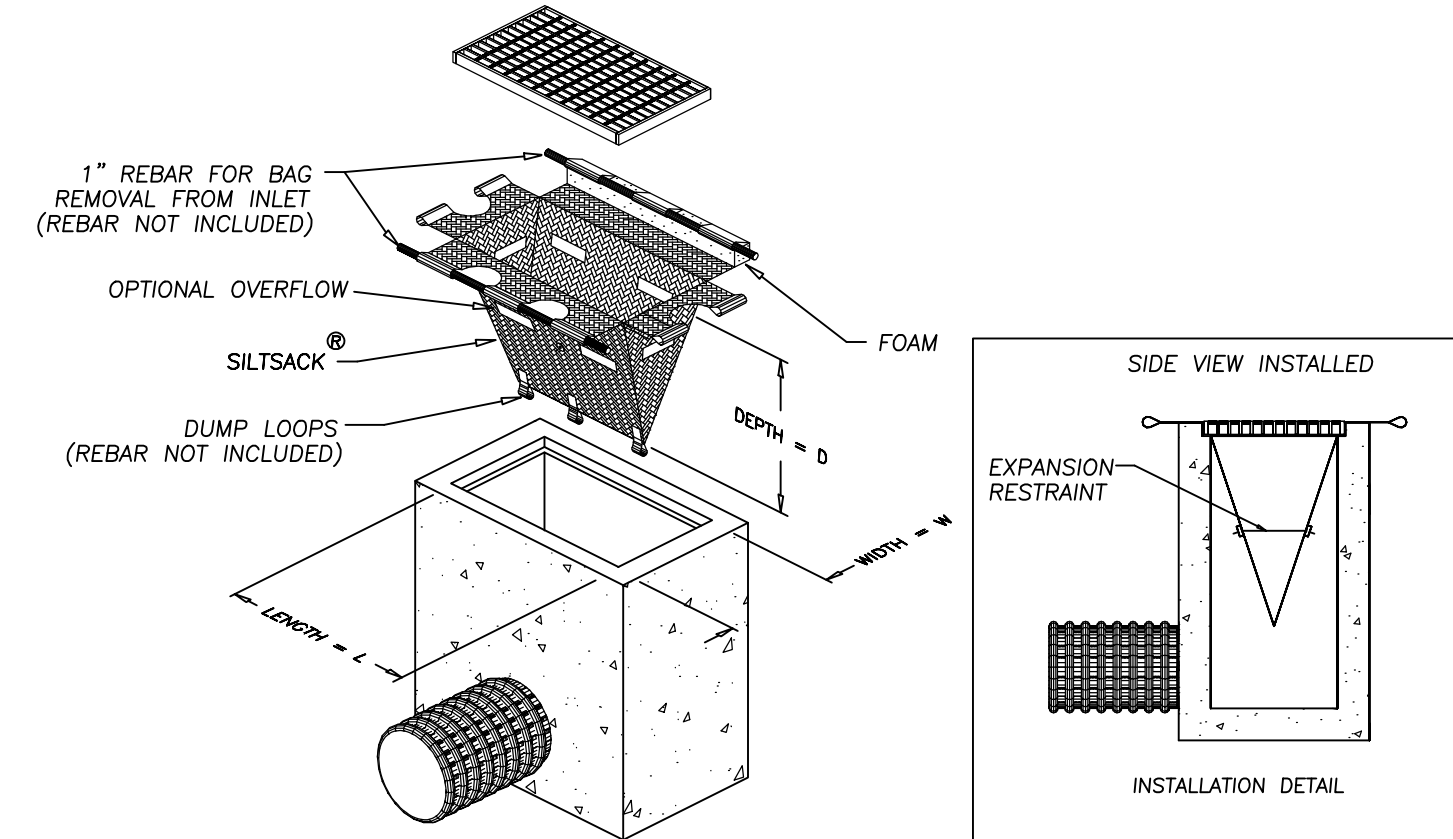
1. AN EROSION CONTROL BARRIER SHALL BE INSTALLED AS DEPICTED ON THE SITE PLAN, BETWEEN THE AREAS TO BE DISTURBED AND WETLAND AREAS. THIS BARRIER SHALL REMAIN IN PLACE UNTIL ALL TRIBUTARY SURFACES HAVE BEEN FULLY STABILIZED. THE EROSION CONTROL BARRIERS AS SHOWN ON THE SITE PLAN ARE THE MINIMUM REQUIRED TO PROTECT THE ON & OFF SITE DRAINAGE SYSTEMS.
2. PHOTOGRAPHS AND/OR VIDEO IMAGES OF THE PRE-CONSTRUCTION CONDITION OF THE SITE AND SURROUNDING AREAS, ESPECIALLY THE ADJACENT STREETS SHALL BE TAKEN, DEVELOPED AND DATED. A COPY OF THESE MATERIALS SHALL BE SUBMITTED TO THE PERMIT GRANTING AUTHORITY AND OWNER FOR THEIR FILES. THESE PICTURES AND IMAGES SHALL REFERENCE EXISTING SITE CONDITIONS AND PERMANENT REFERENCE MARKS TO ENABLE RECOGNITION OF THE AREA BEING PHOTOGRAPHED, AND SHALL REPRESENT A COMPREHENSIVE VIEW OF THE SITE PRIOR TO DEVELOPMENT.
3. THE CONTRACTOR SHALL ESTABLISH A STAGING AREA ON A PORTION OF THE AREA TO BE DISTURBED FOR THE OVERNIGHT STORAGE OF EQUIPMENT AND STOCKPILING OF MATERIALS. THE STAGING AREA SHALL BE OUTSIDE OF THE 100' WETLANDS BUFFER ZONE.
4. IN THE STAGING AREA, THE CONTRACTOR SHALL HAVE A STOCKPILE OF MATERIALS REQUIRED TO CONTROL EROSION ON-SITE TO BE USED TO SUPPLEMENT OR REPAIR EROSION CONTROL DEVICES. THESE MATERIALS SHALL INCLUDE, BUT ARE NOT LIMITED TO: STRAWBALES, SILT FENCE AND CRUSHED STONE.
5. A TEMPORARY STONE CONSTRUCTION ENTRANCE IS REQUIRED TO PREVENT TRACKING OF SILT, MUD, ETC. ONTO EXISTING ROADS. THE STONE SHALL BE REPLACED REGULARLY AS WELL AS WHEN THE STONE IS SILT LADEN OR EQUIPMENT IS OBSERVED TO BE TRACKING SOIL ONTO THE ROADWAYS.
6. THE CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL ON SITE AND SHALL UTILIZE EROSION CONTROL MEASURES WHERE NEEDED, REGARDLESS OF WHETHER THE MEASURES ARE SPECIFIED HEREIN, ON THE PLAN OR IN ANY ORDER OF CONDITIONS.

GENERAL CONSTRUCTION REQUIREMENTS:

1. ANY REFUELING OF CONSTRUCTION VEHICLES AND EQUIPMENT SHALL TAKE PLACE OUTSIDE OF THE 100 FOOT BUFFER ZONE TO THE ENTRANCE TO THE DRAINAGE SYSTEM AND SHALL NOT BE CONDUCTED IN PROXIMITY TO SEDIMENTATION BASINS OR DIVERSION SWALES, AND BE PERFORMED OFF-SITE IF POSSIBLE.
2. NO ON-SITE DISPOSAL OF SOLID WASTE, INCLUDING BUILDING MATERIALS IS ALLOWED IN THE 100 FOOT BUFFER ZONE. THE BURIAL OF STUMPS, CONSTRUCTION DEBRIS OR OTHER MATERIALS SHALL NOT BE ALLOWED ANYWHERE ON-SITE.
3. NO MATERIALS SHALL BE DISPOSED OF INTO THE WETLANDS OR EXISTING OR PROPOSED DRAINAGE SYSTEMS. ALL CONTRACTORS INCLUDING: CONCRETE SUPPLIERS, PAINTERS AND PLASTERERS, SHALL BE INFORMED THAT THE CLEANING OF EQUIPMENT IS PROHIBITED IN AREAS WHERE THE WASH-WATER WILL DRAIN DIRECTLY TO THE SITE DRAINAGE SYSTEMS.
4. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL WHICH SHALL INCLUDE STREET SWEEPING OF ALL PAVED SURFACES WITHIN THE SITE AND OFF-SITE AREAS THAT ARE IMPACTED BY SITE CONSTRUCTION ON A REGULAR BASIS, AS NEEDED.
5. ALL SUBCONTRACTORS SHALL BE NOTIFIED THAT CLEANING OF EQUIPMENT WITHIN THE 100' WETLAND BUFFER IS NOT PERMITTED. INCLUDING, BUT NOT LIMITED TO, CONCRETE TRUCKS, PAINTERS, PLASTERERS, ETC.



TEMPORARY DEWATERING AREA
NOT TO SCALE



INLET SEDIMENT CONTROL DEVICE
NOT TO SCALE



155 Merrimack Street 2nd Floor
Lowell, MA 01852

DRACUT CENTER
SENIOR HOUSING

DRACUT, MA 01826

PERMIT SET
NOT FOR CONSTRUCTION
AUGUST 13, 2020

PLACES Associates, Inc.



133 Lincoln Street, Boston MA 02111 617-350-7420
www.bwaboston.com

Issue

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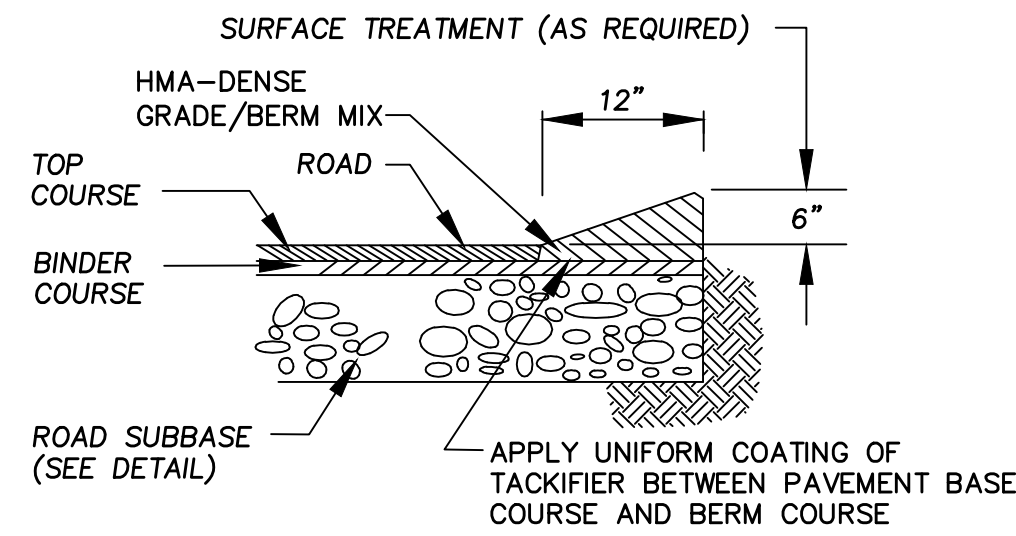
SEDIMENTATION
AND EROSION
CONTROL PLAN

SHEET NO.

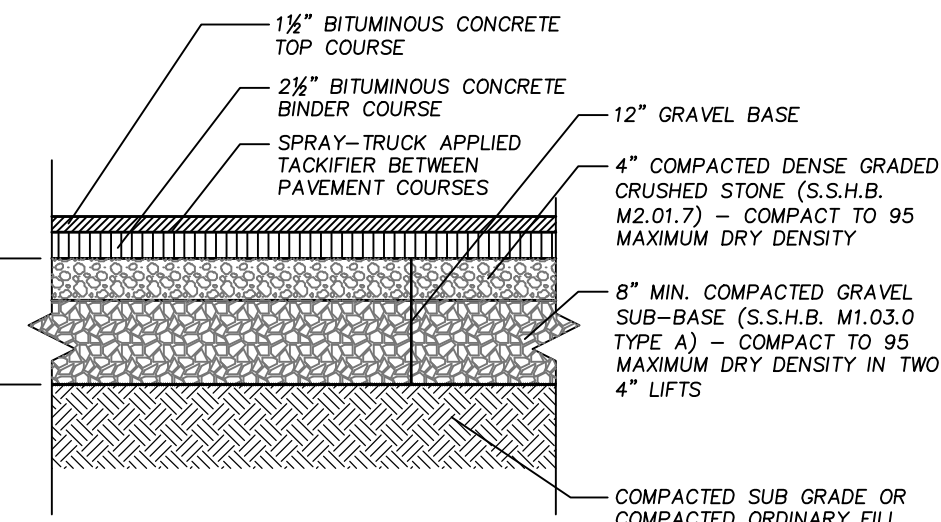
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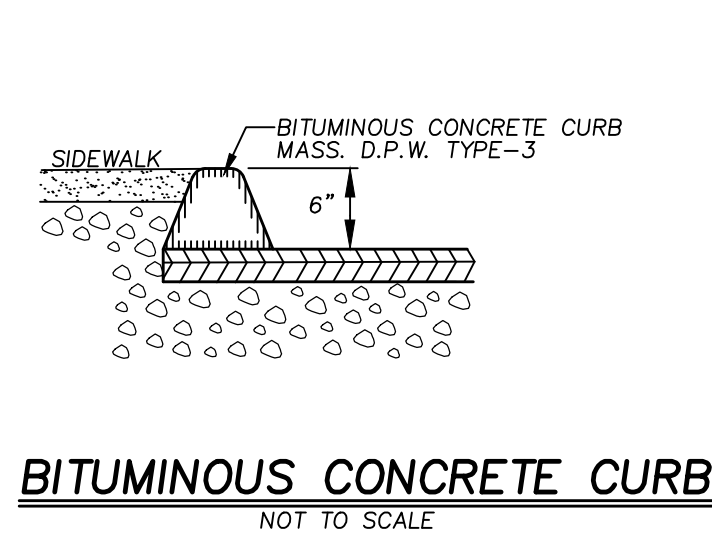
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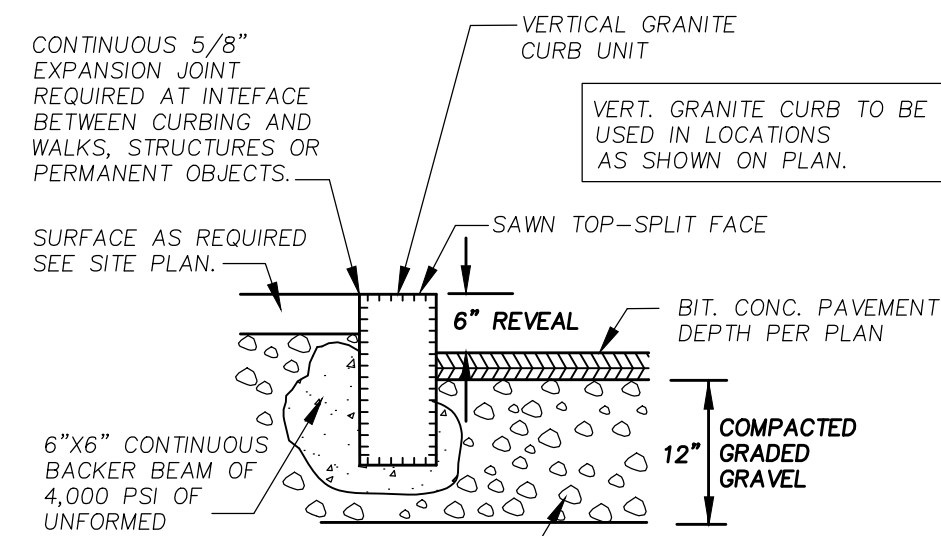
CAPE COD BERM
NOT TO SCALE



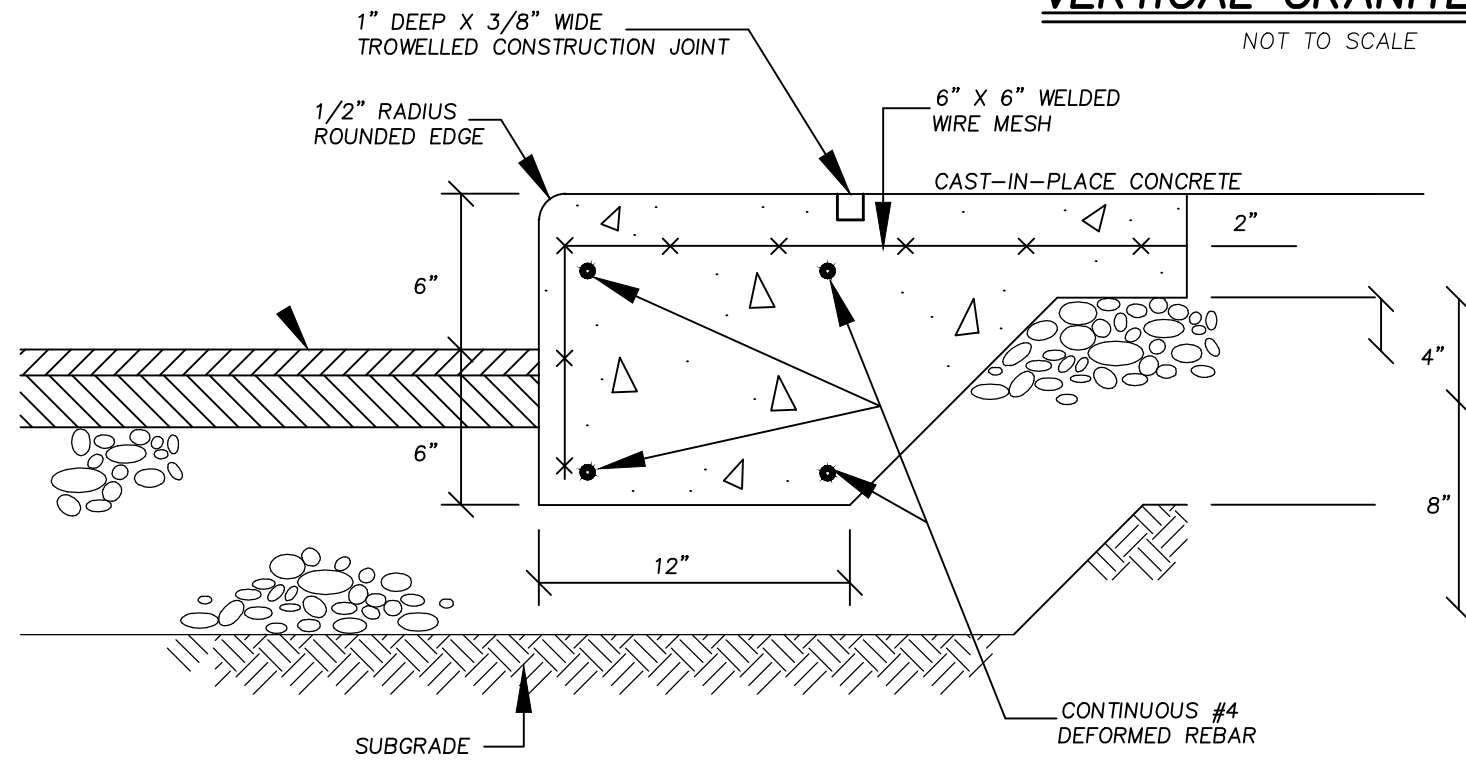
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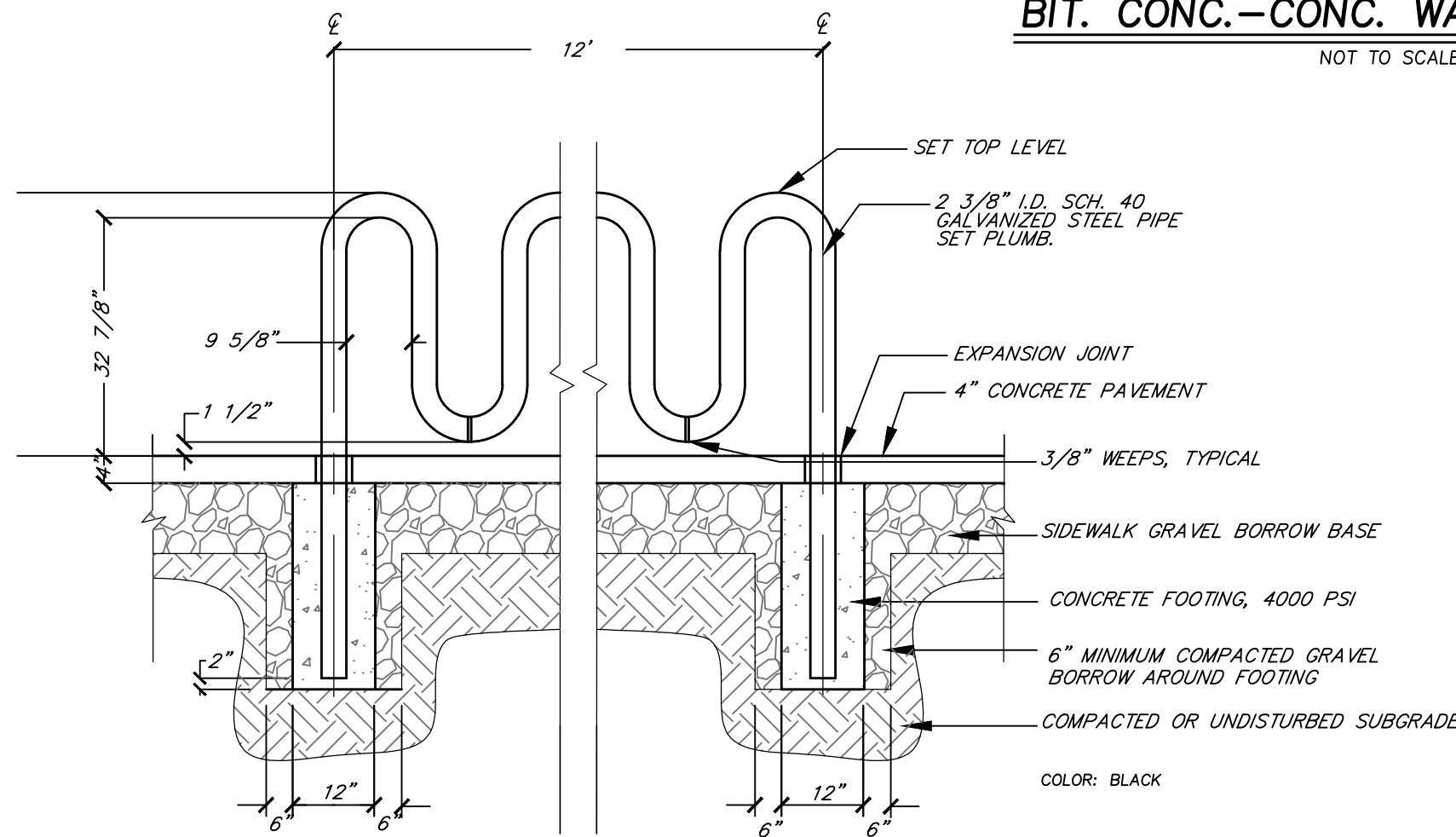
BITUMINOUS CONCRETE CURB
NOT TO SCALE



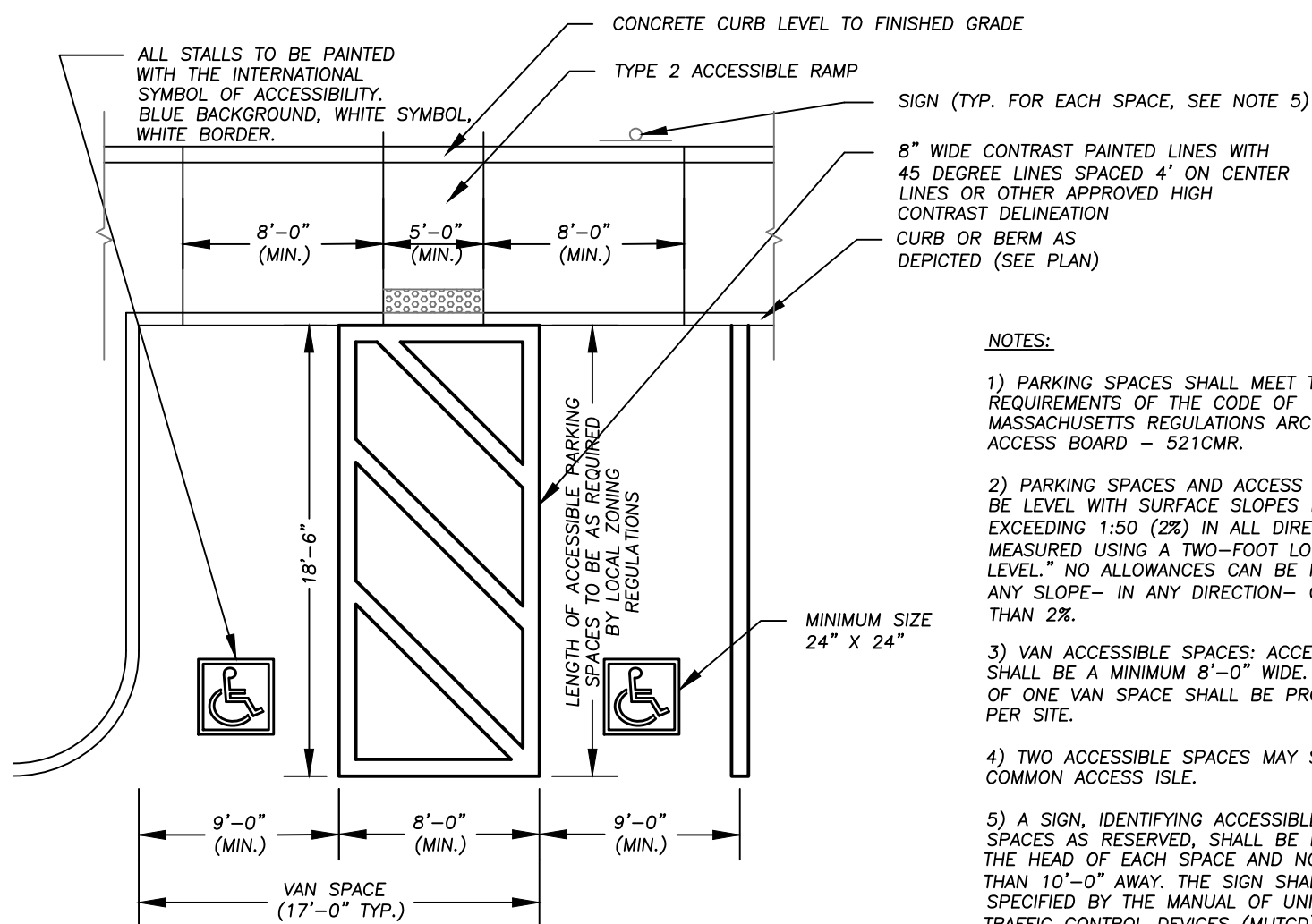
VERTICAL GRANITE CURB
NOT TO SCALE



BIT. CONC.-CONC. WALK INTERFACE
NOT TO SCALE

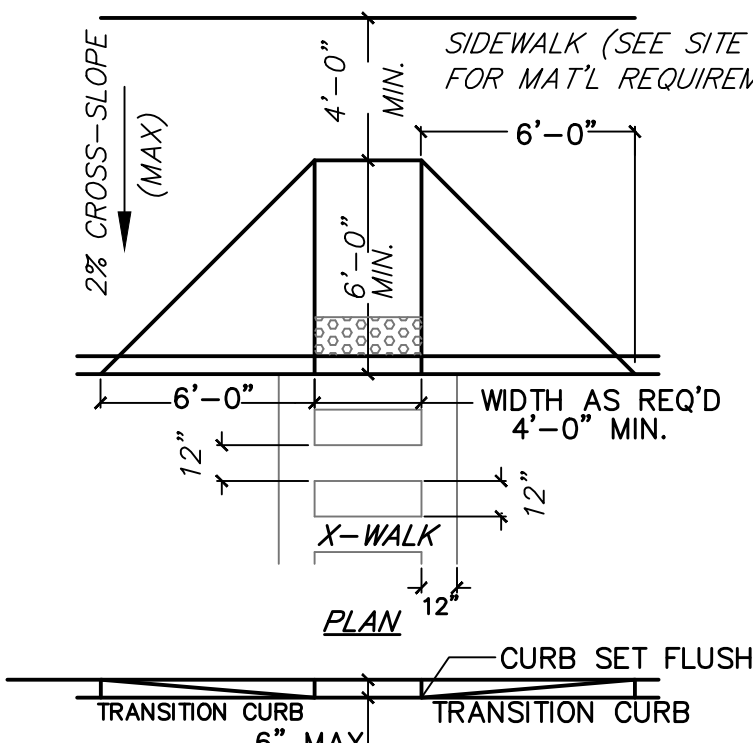


BIKE RACK
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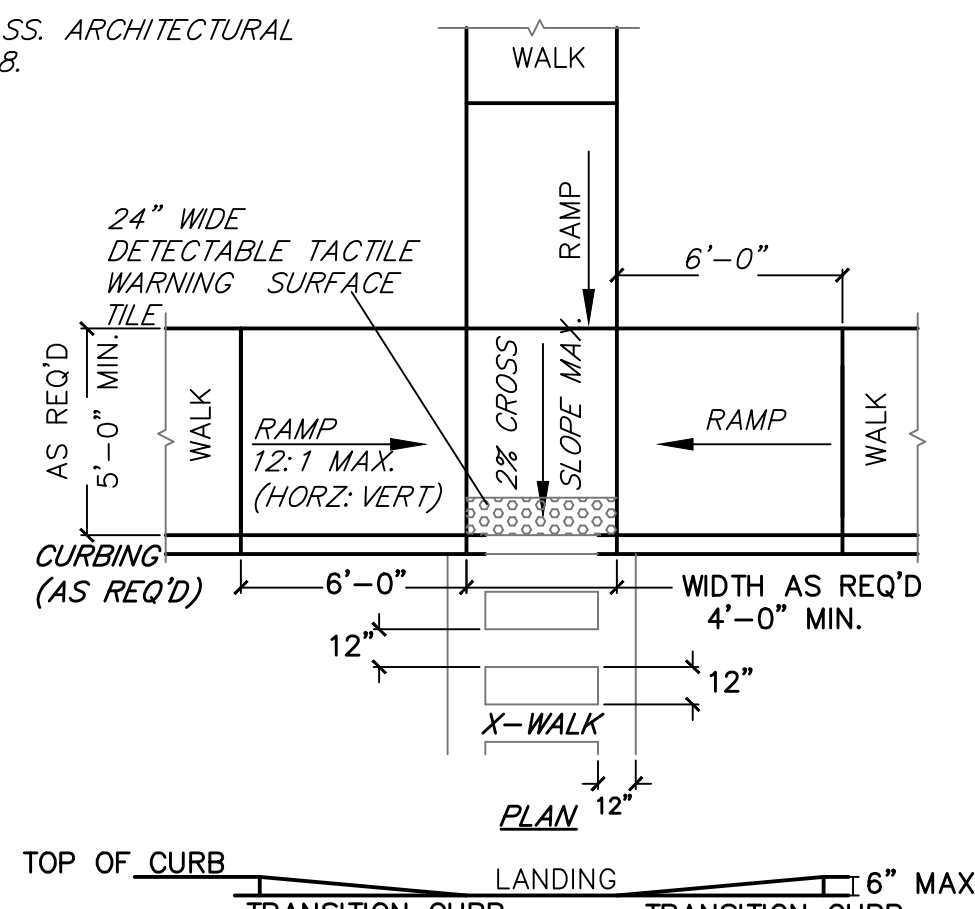


ACCESSIBLE PARKING SPACES
NOT TO SCALE

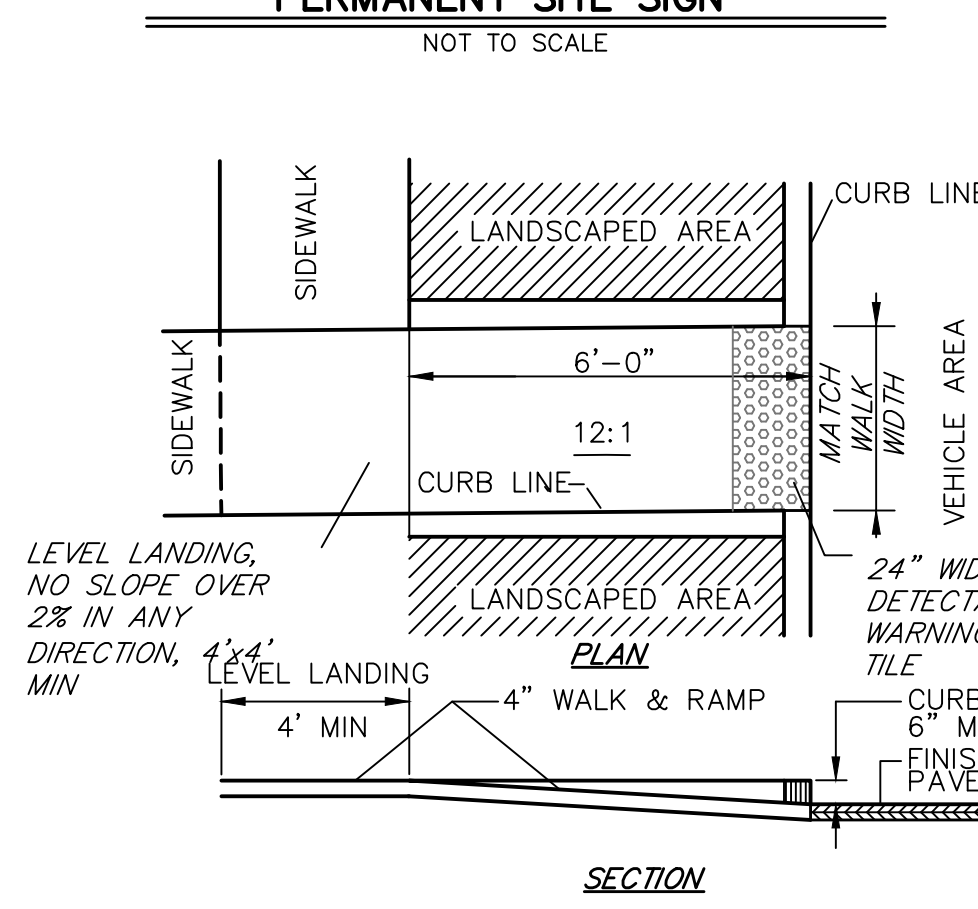
ALL RAMPS SHALL CONFORM TO 521 CMR, MASS. ARCHITECTURAL ACCESS BOARD REQUIREMENTS- SECTIONS 21.8.



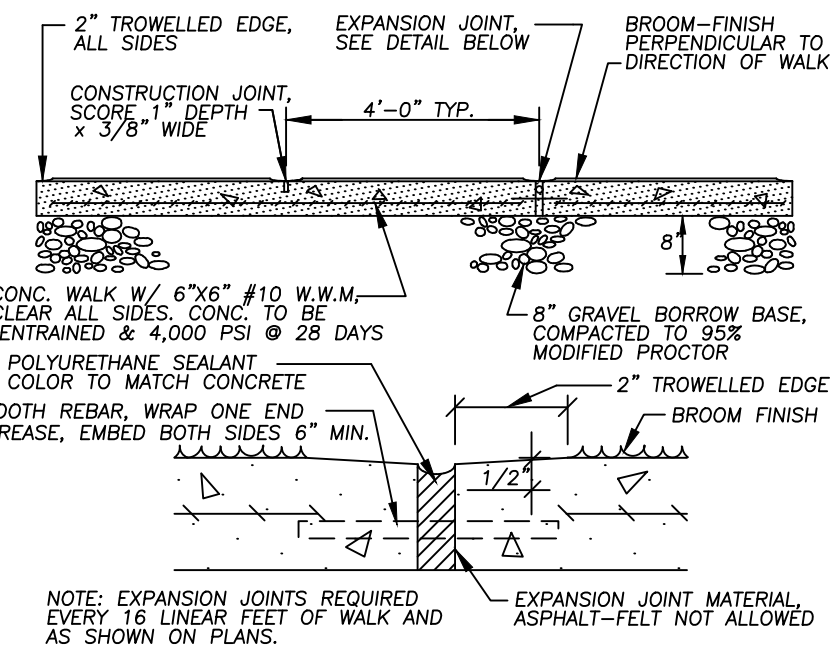
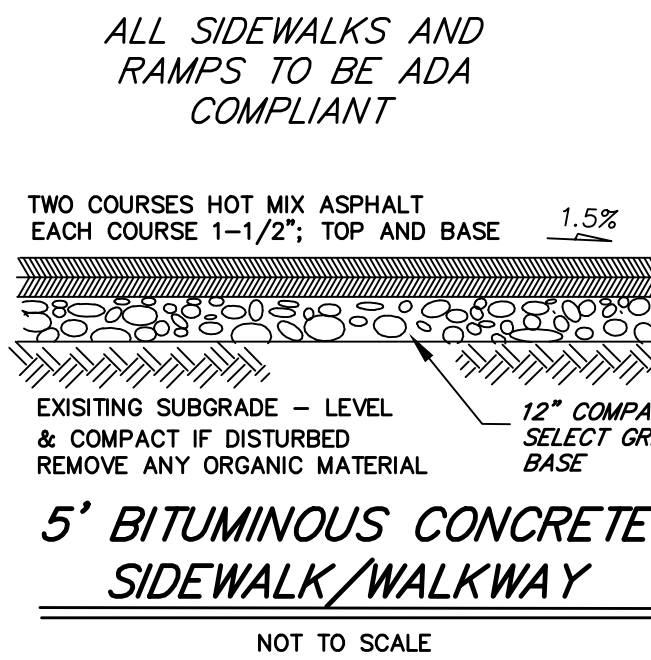
TYPE 1 ACCESSIBLE RAMP
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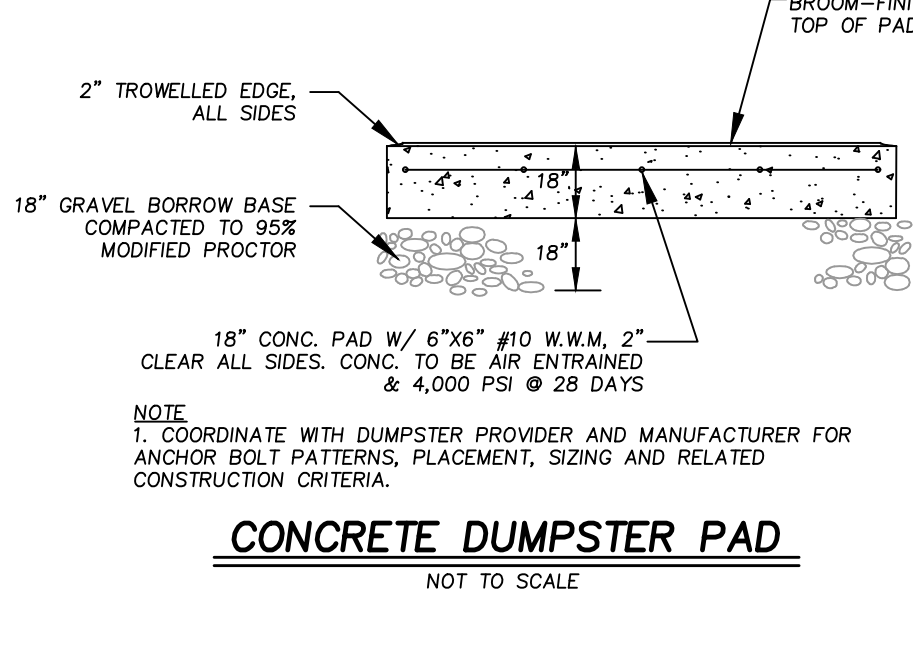
TYPE 2 ACCESSIBLE RAMP
NOT TO SCALE



TYPE 3 ACCESSIBLE RAMP
NOT TO SCALE

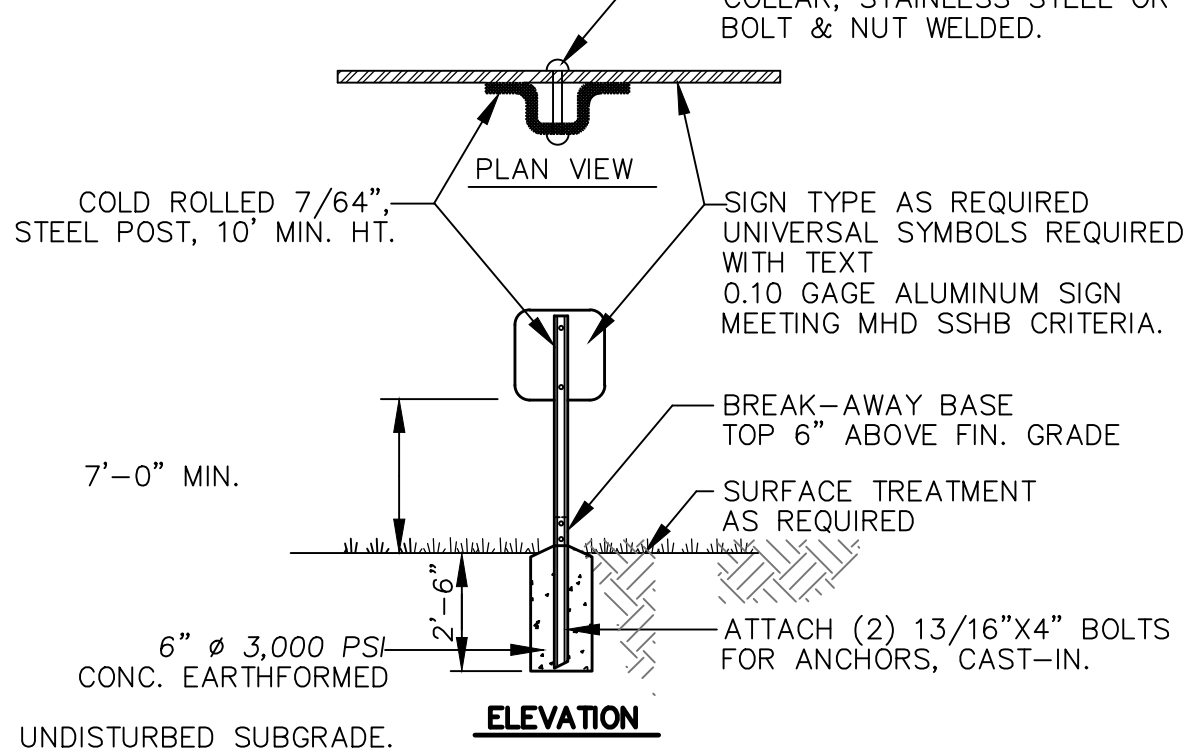


CONCRETE WALK & PADS
NOT TO SCALE



CONCRETE DUMPSTER PAD
NOT TO SCALE

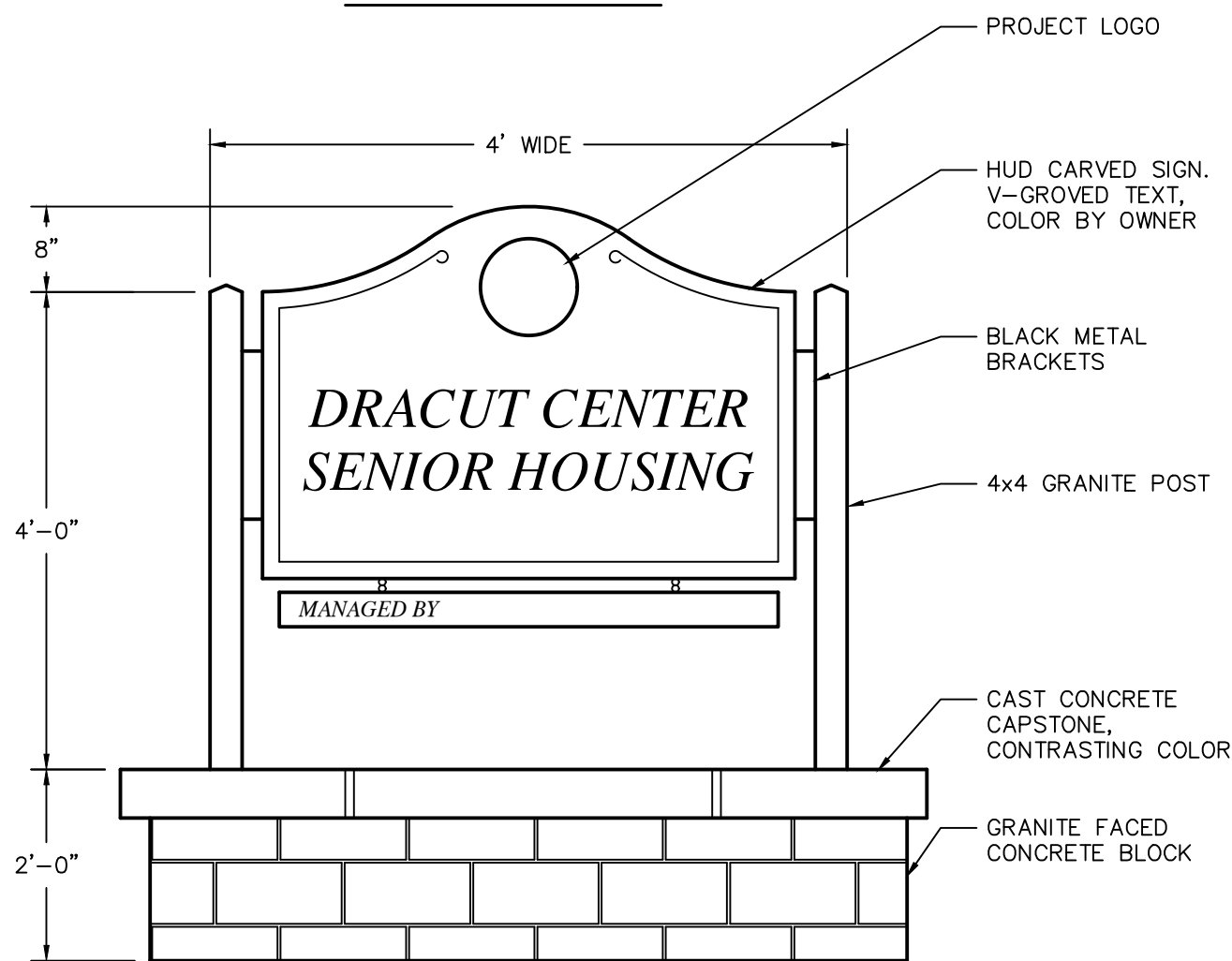
1. ALL SURFACES TO BE PRIMED & PAINTED MEETING MASS. HIGHWAY DEPT. STANDARDS.
2. SIGN CONSTRUCTION & MATERIALS TO CONFORM TO MHD SSHB, SECTION 840, AND M8.18.5.
3. SIGN TYPES REQUIRED: SEE SIGN LEGEND DETAIL



TYPICAL SITE SIGN
NOT TO SCALE

SIGN	LEGEND	DIMENSIONS	SPECIFICATIONS
	R1-1	24" OCTAGONAL	MUTCD
	R7-8	12" X 18"	MUTCD
	R7-8B	12" X 6"	MUTCD
	R7-1	12" X 18"	MUTCD

SIGN LEGEND



PERMANENT SITE SIGN
NOT TO SCALE

NOTE: ALL POSTS AND RAILS SHALL BE PRESSURE TREATED DOUGLAS FIR OR SOUTHERN YELLOW PINE TREATED TO A MINIMUM OF C-40 CCA

WOOD GUIDE RAIL



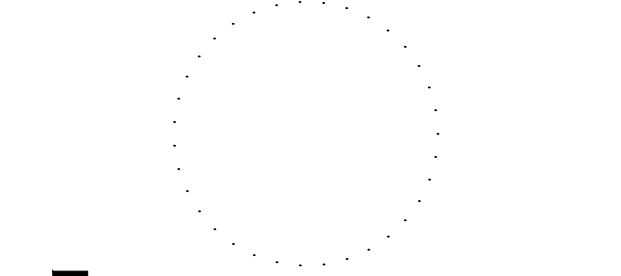
155 Merrimack Street 2nd Floor
Lowell, MA 01852

DRACUT CENTER
SENIOR HOUSING

DRACUT, MA 01826

PERMIT SET
NOT FOR CONSTRUCTION
AUGUST 13, 2020

PLACES Associates, Inc.



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www.bwaboston.com

Issue

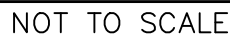
No.	Description	Date
01	50% SCHEMATIC	10/23/19
02	PERMIT SET	1/20/2020
03	REVIEW COMMENTS	8/13/2020

DRAWING TITLE
CONSTRUCTION
DETAILS

SHEET NO.

C-6

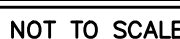
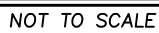
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200 LB. RIP-RAP CHINK ALL VOIDS, EXTEND MIN. 20' DOWN HILL BOTH SIDES OR PER PLAN



NOT TO SCALE



1. A SILTATION BARRIER/WATTS/ES SHALL BE INSTALLED AS DEPICTED ON THE SITE PLAN, BETWEEN THE AREAS TO BE DISTURBED, WETLAND REPLICATION AREAS AND WETLAND AREAS. THIS BARRIER SHALL REMAIN IN PLACE UNTIL ALL TRIBUTARY SURFACES HAVE BEEN FULLY STABILIZED. THE EROSION CONTROL MEASURES AS SHOWN ON THE SITE PLAN ARE THE MINIMUM REQUIRED TO PROTECT THE ON & OFF SITE DRAINAGE SYSTEMS.
2. PHOTOGRAPHS AND/OR VIDEO IMAGES OF THE PRE-CONSTRUCTION CONDITION OF THE SITE AND SURROUNDING AREAS, ESPECIALLY THE ADJACENT STREETS SHALL BE TAKEN, DEVELOPED AND DATED. THESE PHOTOS/VIDEOS SHALL BE KEPT ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE PROJECT TO ENABLE RECOGNITION OF THE AREA BEING PHOTOGRAPHED, AND SHALL REPRESENT A COMPREHENSIVE VIEW OF THE SITE PRIOR TO DEVELOPMENT.
3. THE CONTRACTOR SHALL ESTABLISH A STAGING AREA ON A PORTION OF THE AREA TO BE DISTURBED FOR THE OVERLAP OF EQUIPMENT AND STOCKPILING OF MATERIALS.
4. IN THE STAGING AREA, THE CONTRACTOR SHALL HAVE A STOCKPILE OF MATERIALS REQUIRED TO CONTROL EROSION ON-SITE TO BE USED TO SUPPLEMENT OR REPAIR EROSION CONTROL DEVICES. THESE MATERIALS SHALL INCLUDE, BUT ARE NOT LIMITED TO: STRAW BALES, STRAW WADDELS, SILT FENCE AND SODS AND STONE.
5. A TEMPORARY STONE CONSTRUCTION ENTRANCE IS REQUIRED TO PREVENT TRACKING OF SILT, MUD, ETC. ONTO EXISTING ROADS, DRIVEWAYS AND SIDEWALKS. THE STONE SHALL BE REPLACED REGULARLY AS WELL AS WHEN THE STONE OR EQUIPMENT IS OBSERVED TO BE TRACKING SOIL ONTO THE ADJACENT PAVED ROADWAYS. IF SEDIMENT OR MUD IS TRACKED ONTO THE PUBLIC WAYS, THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE SEDIMENT.
6. THE CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL ON SITE AND SHALL UTILIZE EROSION CONTROL MEASURES REGARDLESS OF WHETHER THE MEASURES ARE SPECIFIED HEREIN, ON THE PLAN OR IN ANY ORDER OF CONDITIONS.

PRELIMINARY SITE WORK:

1. ALL ORGANIC MATERIAL REMOVED FROM UPLANDS AREAS TO BECOME REPLICATED WETLANDS SHOULD BE STOCKPILED PRIOR TO FILLING, SEPARATING THE TOPSOIL FOR FUTURE USE ON THE SITE. EROSION CONTROLS SHALL BE UTILIZED ALONG THE DOWNSLOPE SIDE OF THE PILES IF THE PILES ARE TO REMAIN MORE THAN THREE WEEKS OR SUBJECT TO EROSION CONDITIONS SUCH AS INTENSE RAIN, WIND OR OTHER EXPOSURE.
2. STOCKPILES SHALL BE LOCATED AS REQUIRED. SHOULD ADDITIONAL AREAS BE NEEDED THEY SHALL BE LOCATED TO MINIMIZE ANY POTENTIAL IMPACTS.
3. IF INTENSE RAINFALL IS ANTICIPATED, THE INSTALLATION OF SURROUNDING STRAW BALE DIKES, STRAW WADDLES, SILT FENCES, OR ARMORED DIKES SHALL BE UTILIZED.



NOTES: RAIN GARDEN PLANTING PROPOSE IS BASED ON A VARIETY OF SPECIES BEING AVAILABLE ON THE PLANTING DATE. THE SPECIES LIST PROVIDED PRESENTS A VARIETY OF PLANTS THAT MAY BE SUBSTITUTED FOR ONE ANOTHER BASED ON AVAILABILITY AND SEASON.

PERENNIAL PLANTS SHALL BE 1 PER 10 SQ.FT.
A MINIMUM OF FOUR SPECIES MIXTURE AS LISTED BELOW SHALL
BE USED:

BEE BALM (MONARDA DIDYMA)
SMOOTH ASTER (ASTER LAEVIS)
NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE)
SWAMP SPANFLOWER (HELENIUM AUTUMNALE)
MEADOW BLAZING STAR (Liatris ligulistylis)
BLUE LOBELIA (LOBELIA SIPHILICA)
YELLOW CONEFLOWER (RATIBIDA DINNATA)
BROWN-EYED SUSAN (RUDBEKIA SUBTOMENTOSA)
PURPLE CONEFLOWER (ECHINACEA PURPUREA)

SHRUBS SHALL BE 1 PER 40 SQ.FT.
PLANT IN GROUPS OF THREE.

RED-TWIGGED DOGWOOD (CORNUS SERICEA)
WINTERBERRY (ILEX VERTICILATA)
BLACK CHOKEBERRY (ARONIA MELANOCARPA)
EASTERN NINEBARK (PHYSCARPUS OPULIFOLIUS)
RED ELDERBERRY (SAMBUCUS PUBENS)
NANNYBERRY (VIBURNUM LENTAGO)
HIGHBUSH BLUEBERRY (VACCINIUM CORYMBOSUM)
CRANBERRY BUSH (VIBURNUM TRILOBUM)
PUSSY WILLOW (SALIX CAEPREA)
ARROW-WOOD VIBURNUM (VIBURNUM DENTATUM)
DWARF FOTHERGILLA (FOTHERGILLA GARENII)

OPERATION AND MAINTENANCE

SOILS

- * THE SOIL MIX FOR BIORETENTION AREAS SHOULD BE A Mixture OF SAND, COMPOST AND LOAM. 40% COARSE SAND, 20-30% TOPSOIL, AND 30-40% COMPOST. MINIMUM INFILTRATION RATE IS 6 INCHES/HOUR
- * THE SOIL MIX MUST BE UNIFORM, FREE OF STONES, STUMPS, ROOTS OF TREES, LIMBS, OR OTHER DEBRIS. THERE SHALL NOT EXCEED 1% OF THE SOIL PH SHALD BE GENERALLY BE BETWEEN 5.5-6.5, A RANGE THAT IS OPTIMAL FOR MICROBIAL ACTIVITY AND ADSORPTION OF NITROGEN.
- * THE SOIL MIX SHALL BE FREE OF PLANTS AND PLANT PARTS.
- * USE SOILS WITH 1.5% TO 3% ORGANIC CONTENT AND MAXIMUM 500-PPM CHLORIDE.
- * THE SAND COMPONENT SHOULD BE GRAVELLY SAND THAT MEETS ASTM C 422.
- | SIEVE SIZE | PERCENT PASSING |
|--------------------------|-----------------|
| 2-INCH <td>100</td> | 100 |
| 3/8-INCH <td>70-100</td> | 70-100 |
| 3/4-INCH <td>50-80</td> | 50-80 |
| 1-INCH <td>40-60</td> | 40-60 |
| NO. 20 <td>15-40</td> | 15-40 |
| NO. 40 <td>5-15</td> | 5-15 |
| NO. 60 <td>0-3</td> | 0-3 |
- * THE TOPSOIL COMPONENT SHALL BE A SANDY LOAM, LOAMY SAND OR SILTY SAND.
- * THE COMPOST COMPONENT MUST BE PROCESSED FROM YARD WASTE IN ACCORDANCE WITH MASSDEP, SEE [MASSDEP'S NEW PESTICIDE REDUCTION PLAN](#).DOC

NOT TO SCALE

WETLAND REPLICATION SOILS:

1. ALL ORGANIC MATERIAL REMOVED FROM UPLANDS AREAS TO BECOME REPLICATED WETLANDS SHOULD BE STOCKPILED PRIOR TO FILLING, SEPARATING THE TOPSOIL FOR FUTURE USE ON THE SITE.
2. EXISTING TOPSOIL SHOULD BE SWIRLED TO REMOVE ANY PLANT MATTER.
3. EXISTING TOP SOIL, RECLAIMED FROM ADJACENT UPLAND AREAS, SHOULD BE MIXED WITH ORGANIC DEBRIS, MULCH OR COMPOST TO REPLICATE THE TOPSOIL.
4. COARSE TO MEDIUM SAND
5. THE EXISTING WETLANDS SOILS SHALL BE SENT TO THE MASSACHUSETTS AGRICULTURAL TESTING STATION, 100 WASHINGTON STREET, WILMINGTON, MASSACHUSETTS 01890, FOR ANALYSIS OF AVAILABLE NUTRIENT TESTING, 203 PAIGE LAKE, 161 HOLIDSWORTH WAY, AMHERST, MA 01003-9286. TEL (413) 545-2311; WEB: SOILTEST.MASS.GOV WHERE A ROUTINE SOIL ANALYSIS SHALL BE CONDUCTED TO DETERMINE THE NUTRIENT STATUS OF THE SOILS. AFTER THE PH AND TO PLACING THE REPLICATION SOILS, THEY SHALL BE MODIFIED TO MATCH THE PROPOSED SOIL'S pH AND ORGANIC CONTENT, BY % OF TOTAL VOLUME. pH SHALL BE FIELD TESTED TO ENSURE THAT THE REPLICATION SOILS MATCH THE PROPOSED SOILS.

CONSTRUCTION SEQUENCE:

1. PRIOR TO THE INITIATION OF CONSTRUCTION, EROSION CONTROL BARRIERS SHALL BE IN PLACE, SEE STORMWATER POLLUTION PREVENTION PLAN & CONSTRUCTION SEQUENCING. THE LATERAL EXTENT OF BOTH THE AREA OF DISTURBANCE OF UPLANDS AND THE REPLICATION AREAS SHALL BE FIELD STAKED.
2. EXISTING VEGETATION SHALL BE INSPECTED BY THE WETLAND SCIENTIST TO DETERMINE IF ANY VEGETATION CAN BE SAVED BASED ON THE PROPOSED ELEVATIONS IN THE REPLICATION AREA. PLANT CONDITION AND TYPE SHALL BE THE BASIS FOR THE ROOT STRUCTURE. PLANTS TO BE SAVED SHALL BE PROTECTED WITH GRANGE CONSTRUCTION FENCING.
3. THE RESTORATION AREA SHALL BE CLEARED, GRUBBED AND STRIPPED. WOODY DEBRIS SHALL BE SET ASIDE TO BE SCATTERED ON THE COMPLETED RESTORATION AREA. THE ROUGH GRADES SHALL BE 12" BELOW FINISHED GRADES SHOWN ON THE SITE PLAN.
4. INSTALLATION OF NEW ORGANIC MUCK SOILS SHALL BE INSTALLED IN THE REPLICATION AREA, SPREAD TO A MINIMUM DEPTH OF 12". WETLANDS SOILS SHALL BE MANUFACTURED PER THE DETAIL. CARE SHALL BE TAKEN IN THE INITIAL PLACEMENT TO ALLOW SUFFICIENT WORK AREA FOR THE REPLICATION AREA. PLANTINGS, STOCKPILES OF MUCK SOILS SHALL NOT EXCEED 4' IN HEIGHT FOR NO MORE THAN 1 WEEK.
5. UPON COMPLETION OF THE REPLICATION AREA PLANTINGS, ADDITIONAL TEMPORARY EROSION CONTROL BARRIERS SHALL BE INSTALLED AT THE TOE OF THE SLOPE, AT THE INLET/OUTLET TO THE EXISTING WETLANDS. TEMPORARY EROSION BARRIERS BETWEEN THE EXISTING WETLANDS AND REPLICATION AREA SHALL BE INSTALLED TO PREVENT EROSION OF THE REPLICATION AREA. THESE TEMPORARY EROSION CONTROL BARRIERS SHALL REMAIN IN PLACE UNTIL ALL TRIBUTARY AREAS ARE STABILIZED.

WETLAND CROSSING AND REPLICATION NOTES:

1. PROVIDE THE SERVICES OF A WETLAND SPECIALIST; LANDSCAPE ARCHITECT, OR OTHER PROFESSIONAL (REFERRED TO AS WETLAND SPECIALIST, HEREAFTER) TO MONITOR AND REPORT ON THE STATUS AND CONFORMANCE OF THE RESTORATION AREAS TO THE WETLANDS RESTORATION PLAN.
2. THE WETLAND SPECIALIST SHALL PROVIDE OVERSIGHT OF ALL EXCAVATION AND GRADING OF WETLAND AREAS, BROADCAST OF SEED, INSTALLATION OF EROSION CONTROL MAT AND INSTALLATION OF PLANT MATERIALS.
3. ALL WORK DEPicted BY THE REPLICATION PLAN WILL BE COMPLETED IN A SINGLE, UNINTERRUPTED PROCESS, UNLESS OTHERWISE APPROVED OR DIRECTED BY WETLANDS SPECIALIST.
4. PRIOR TO INITIATION OF THE WORK OF THIS SECTION, ALL REQUIRED MATERIALS WILL BE APPROVED, ON-SITE, AND AVAILABLE FOR INSTALLATION.
5. THE WORK DEPicted BY THE REPLICATION PLAN SHALL NOT INITIATED PRIOR TO, OR DURING RAIN, SNOW OR OTHER CONDITIONS THAT MAY NEGATIVELY AFFECT THE WORK.
6. THE WORK DEPicted BY THE WETLANDS CROSSING AND REPLICATION PLAN WILL OCCUR BETWEEN THE FOLLOWING DATES, UNLESS WAIVED BY THE BOXBOROUGH CONSERVATION COMMISSION AND WETLAND SPECIALIST; STARTING NO SOONER THAN APRIL 1ST, ENDING NO LATER THAN OCTOBER 31ST OF ANY YEAR.
7. THE WETLAND SCIENTIST SHALL EVALUATE THE QUALITY OF MUCK SOILS FROM THE CROSSING AND THE DENSITY OF ROOTS/SEEDS FROM INVASIVE SPECIES. IF A HIGH PROPORTION OF INVASIVE SPECIES IS PRESENT, EXISTING MUCK SOILS SHALL BE DISCARDED AND MANUFACTURED WETLANDS SOILS SHALL BE UTILIZED IN THE REPLICATION AREA.
8. WETLAND SOIL MIXTURE SHALL BE APPLIED AT A UNIFORM DEPTH OF 12" MINIMUM TO ALL EXCAVATED WETLAND RESTORATION AREAS. SHAPED AND SMOOTHED TO FINISH GRADE.
9. "NEW ENGLAND WET MIX" SEED AS MANUFACTURED BY FINEWASH ENVIRONMENTAL, INC. 800 MAIN STREET, AMHERST, MA 01002 (413)256-0202, OR APPROVED EQUAL, SHALL BE BROADCAST EVENLY (A) PREPARED, EXISTING MUCK SOILS SHALL COVER ENTIRE WETLAND RESTORATION AREA PRIOR TO INSTALLATION OF EROSION CONTROL MATTING, IF A DIFFERENT SEED MIX IS PROPOSED, THE CONTRACTOR SHALL SUBMIT MANUFACTURERS SEED SPECIFICATIONS FOR APPROVAL BY THE WETLAND SPECIALIST PRIOR TO BROADCAST OF THE SEED.
10. EROSION CONTROL MATTING SUCH AS "BONTERRA S2", OR APPROVED EQUAL, SHALL BE INSTALLED ALONG THE BOTTOM AND BANKS OF THE PROPOSED WETLAND REPLICATION AREAS IMMEDIATELY FOLLOWING APPLICATION OF WETLAND SOIL MIXTURE, FINAL GRADING, AND BROADCAST SEEDING.
11. IF NECESSITATED BY AVAILABILITY, ALTERNATE WETLAND SPECIES MAY BE SELECTED WITH APPROVAL FROM THE BOXBOROUGH CONSERVATION COMMISSION, OR AGENT.
12. THE CONTRACTOR SHALL PROVIDE FOR INSPECTION AND APPROVAL BY THE WETLAND SPECIALIST OF ALL PLANT MATERIALS PRIOR TO PLANTING.
13. A MINIMUM OF FOUR CLUSTERS OF FERN PLANTINGS, EACH WITH A MINIMUM OF SIX - ONE (1) GALLON POTS SHALL BE LOCATED WITHIN THE WETLAND RESTORATION AREA BY THE WETLAND SPECIALIST AT THE TIME OF PLANTING.
14. ALL PLANTINGS SHALL BE WATERED AS NEEDED DURING THE FIRST GROWING SEASON TO ENSURE PLANT SURVIVAL.
15. THE CONTRACTOR SHALL RESTRICT THE ESTABLISHMENT OF INVASIVE PLANT SPECIES WITHIN WETLAND RESTORATION AREAS BY IMPLEMENTING REGULAR EVALUATIONS AND HAND WEEDING THROUGHOUT THE RESTORATION SEASON FOLLOWING COMPLETED CONSTRUCTION OF WETLAND RESTORATION. INVASIVE SPECIES SHALL BE THOSE IDENTIFIED ON THE "INVASIVE NON-INDIGENOUS PLANTS IN MASSACHUSETTS" BY THE STATE BOTANIST, MA-NHESP OR OTHER APPROVED LIST.
16. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING AND MAINTAINING ALL WETLAND RESTORATION AREAS AND RELATED EROSION CONTROLS THROUGHOUT ALL PHASES OF CONSTRUCTION. CONTROLS SHALL BE ADJUSTED AS REQUIRED BY VARYING SITE CONDITIONS, CONSTRUCTION METHODS, WEATHER AND MATERIALS TO PREVENT ALL EROSION AND DISTURBANCE OF WETLAND RESTORATION AREAS AND OFF-SITE FEATURES.

WETLANDS REPLICATION PLANTINGS

TREE'S abbrev.	qty	sci. name	common name	specifications
AR	8	<i>Acer rubrum</i>	Red Maple	1 1/2 "–2" cal, b&b, single stem
QA	4	<i>Quercus alba</i>	White Oak	1 1/2 "–2" cal, b&b, single stem
SHRUBS abbrev.	qty	sci. name	common name	specifications
VC	18	<i>Vaccinium corymbosum</i>	Highbush Blueberry	4'ht; 3'spr, b&b or >5 gal pot
VO	12	<i>Viburnum opulus trilobum</i>	Highbush Cranberry	4'ht; 3'spr, b&b or >5 gal pot
GROUND abbrev.	COVER /FERN qty	sci. name	common name	specifications
Oc	48	<i>Cornus claytonia</i>	Interrupted Fern	1 gal pots/plant
Cg	24	<i>Chelone glabra</i>	Turtle Head	½ gal pot/plant

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Issue

No.	Description	Date
01	50% SCHEMATIC	10/23/19
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DRAWING TITLE

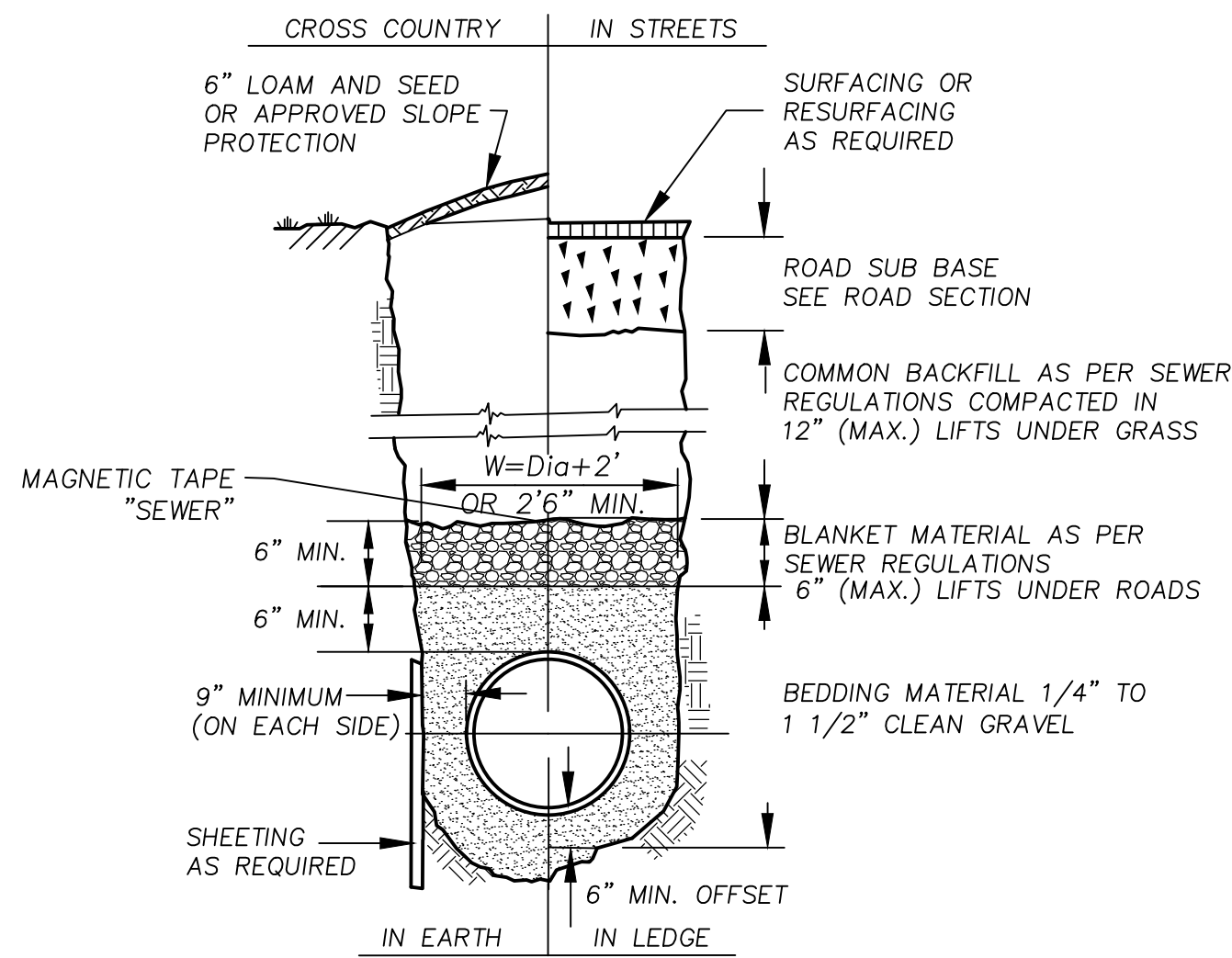
CONSTRUCTION DETAILS

SHEET NO.

C-7

PROJECT NO. 5278

Aug 16, 2020 - 1:57pm - 5278 Design-2019- Greenmont.dwg



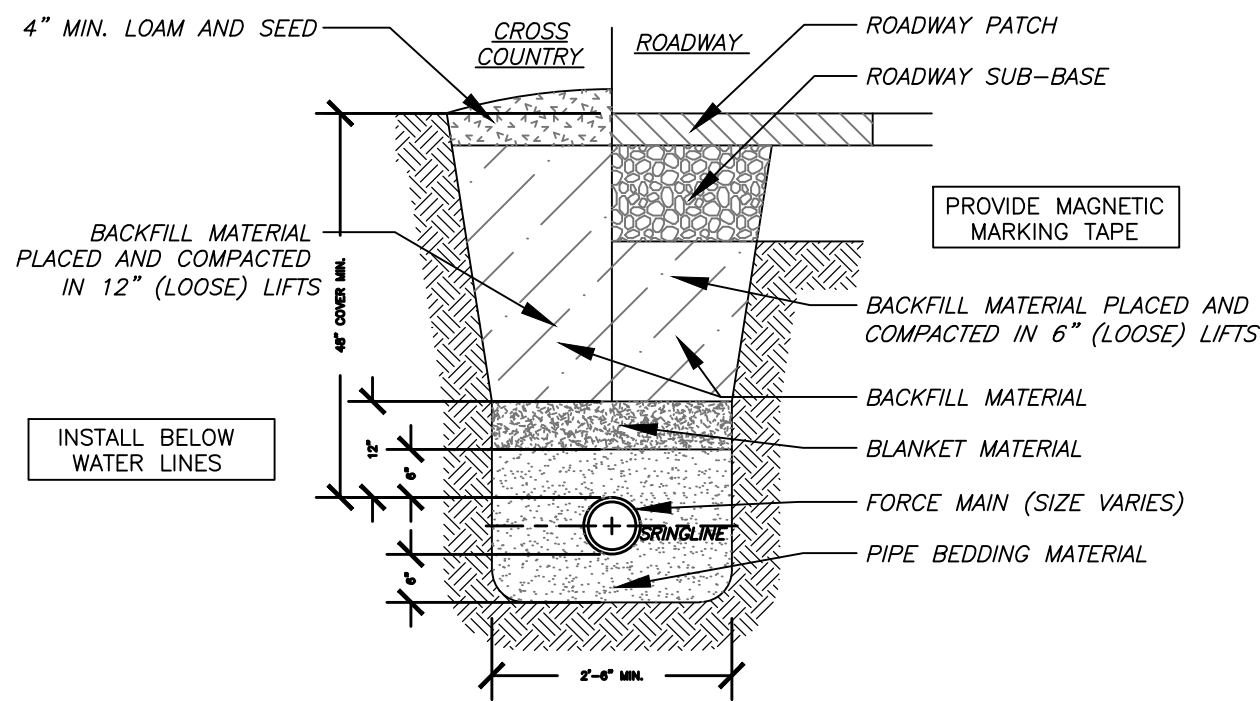
- NOTE:
- BOTH THE BEDDING AND BLANKET MATERIAL SHALL BE COMPACTED IN 6" LOOSE LIFTS TO 90% MAXIMUM DRY DENSITY PER THE MODIFIED PROCTOR TEST.
 - ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH GRAVEL OR OTHER SUITABLE MATERIAL COMPACTED TO 90% MAXIMUM DENSITY (MODIFIED PROCTOR).

TYPICAL SEWER TRENCH

NOT TO SCALE

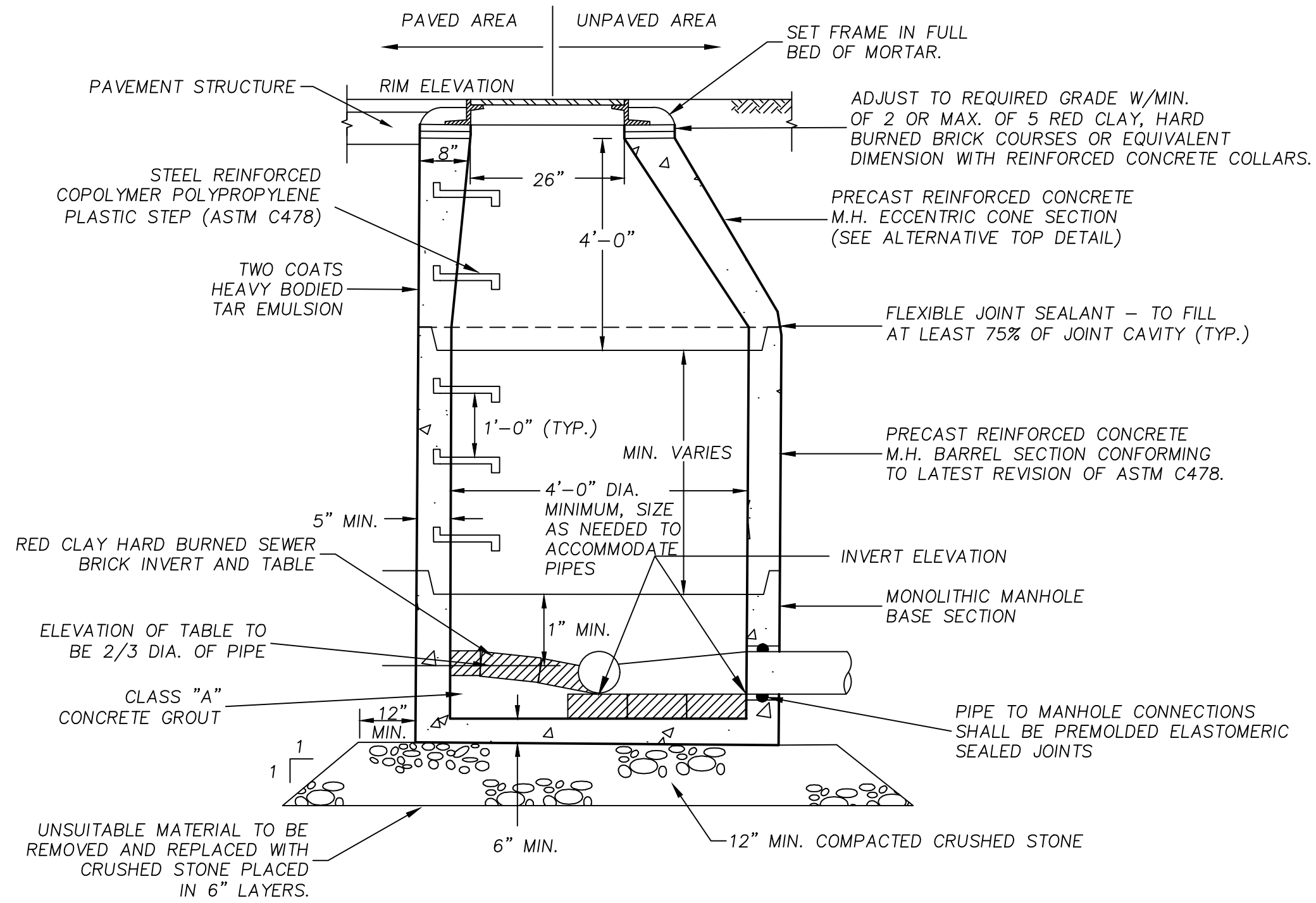
NOTES:

- ROADWAY PATCH AND BASE/SUB-BASE SHALL BE INSTALLED AS DIRECTED BY THE HIGHWAY SUPERINTENDENT.
- BEDDING, BLANKET, & BACKFILL MATERIALS SHALL BE COMPACTED TO 90% MAXIMUM DENSITY (MODIFIED PROCTOR) AT OPTIMUM MOISTURE CONTENT FOR BOTH CROSS COUNTRY AND ROADWAY INSTALLATION.
- EARTH MATERIALS FOR FORCE MAIN INSTALLATION SHALL BE AS FOLLOWS UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR THE APPROVING AUTHORITIES:
 - PIPE BEDDING: 1/2" TO 1 1/2" CRUSHED STONE CONFORMING TO SSBH M2.01.3 - CRUSHED STONE
 - BLANKET MATERIAL: CLEAN SHARP SAND CONFORMING TO SSBH M1.04.0 - SAND BORROW OR: CRUSHED GRAVEL CONFORMING TO SSBH M1.03.1 - PROCESSED GRAVEL FOR SUB-BASE
 - BACKFILL MATERIAL: EXCAVATED OR IMPORTED MATERIAL WHICH IS FRIABLE, NATURAL SOIL COMPOSED OF GRAVEL, SAND, OR SILTY/CLAYEY GRAVEL AND SAND, FREE FROM DEBRIS, CONCRETE, OR OTHER RUBBLE, AND STONES GREATER THAN 6" IN MAXIMUM DIMENSION.



LOW PRESSURE SEWER (LPS) LINE TRENCH

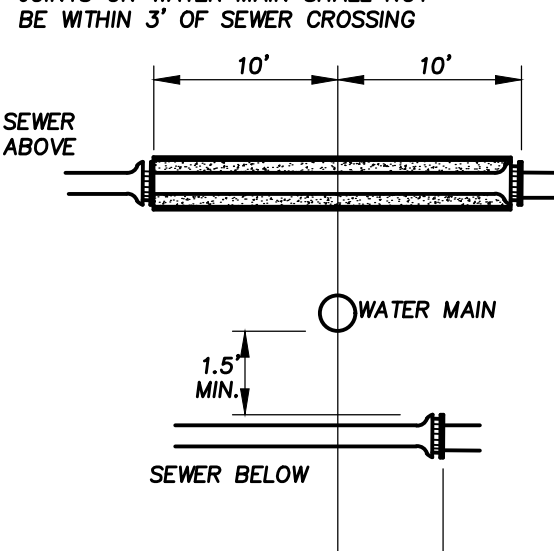
NOT TO SCALE



SEWER MANHOLE DETAIL

NOT TO SCALE

JOINTS ON WATER MAIN SHALL NOT BE WITHIN 3' OF SEWER CROSSING

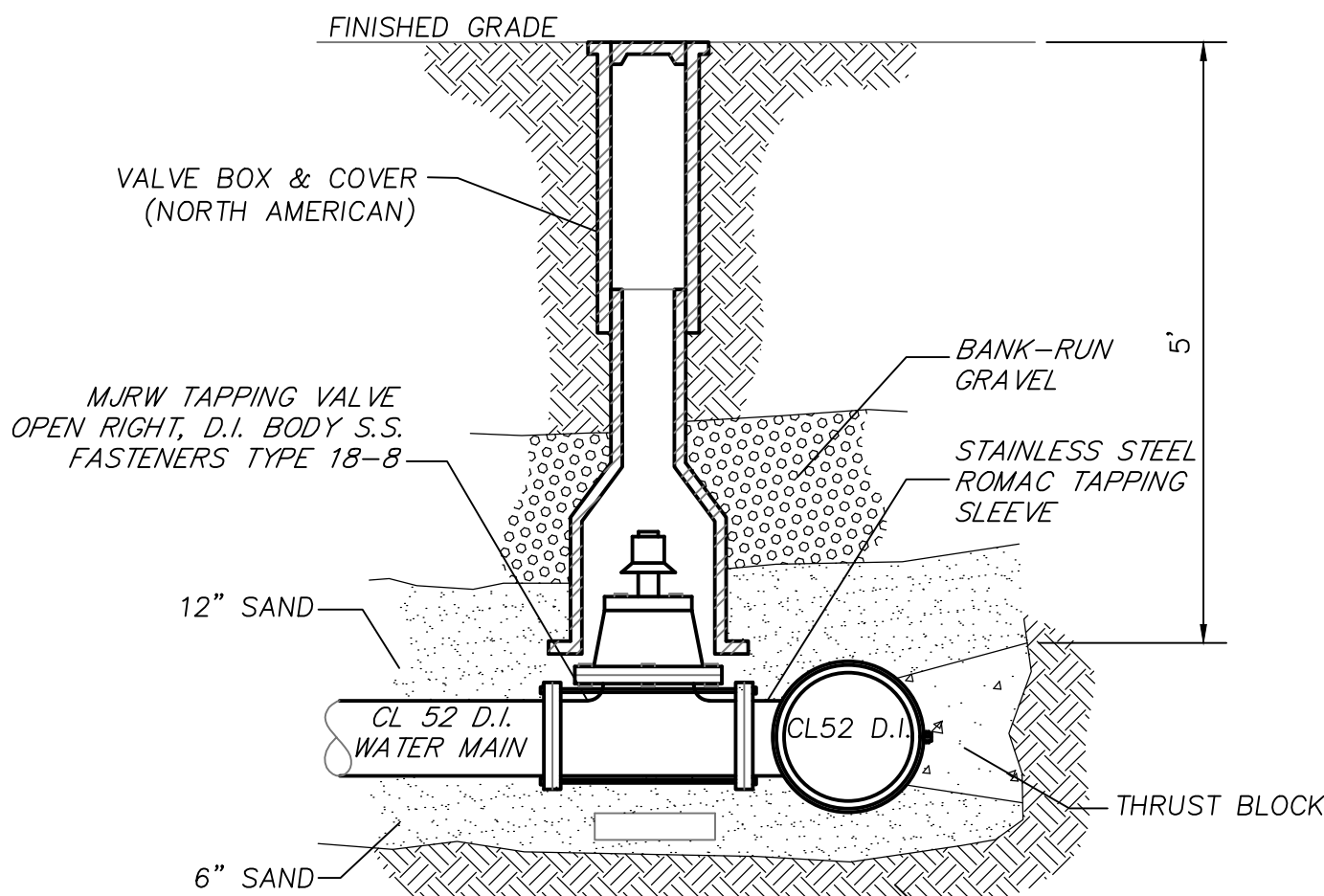


SEWER LINE CROSSING- WATER LINE

NOT TO SCALE

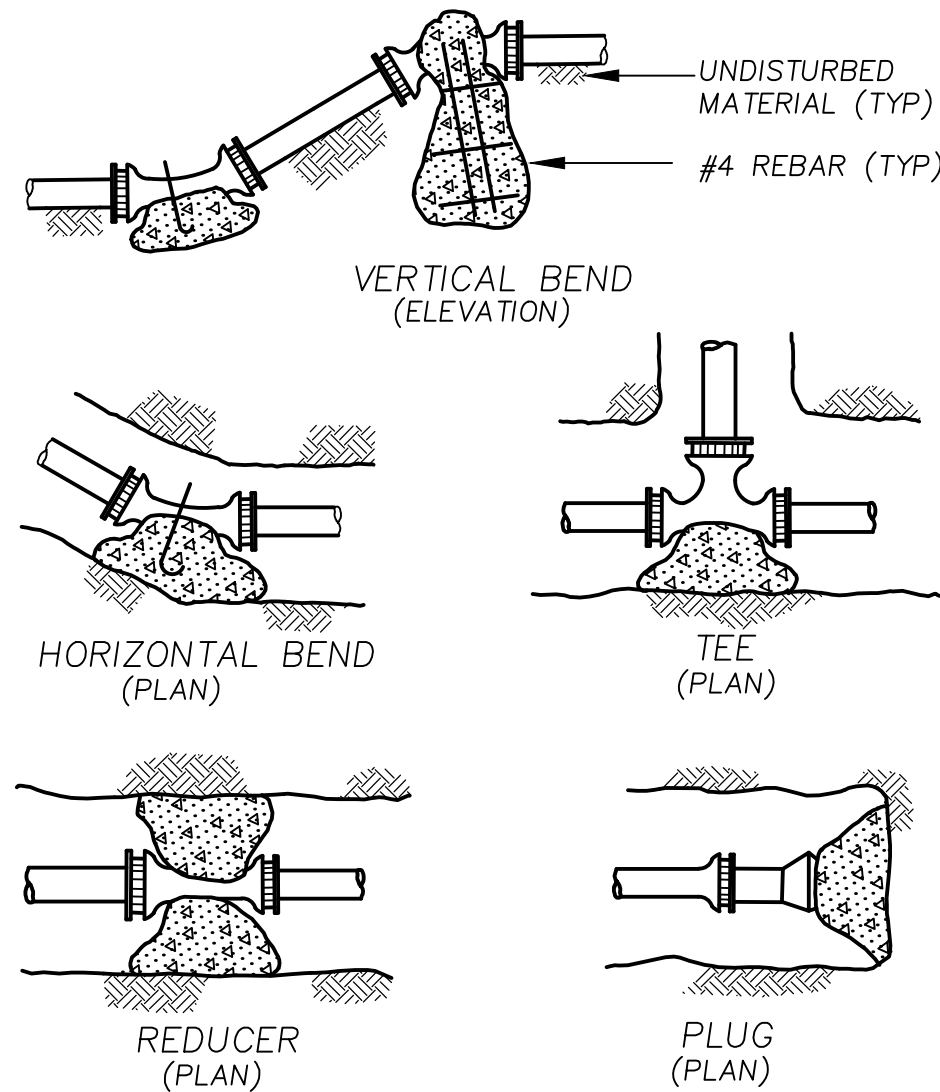
NOTES:

- WHEREVER POSSIBLE, WATER SERVICES SHALL BE INSTALLED WITH A MINIMUM OF 10 FEET HORIZONTAL SEPARATION FROM SEWER SERVICES AND DRAINS. ENGAGEMENT OF EITHER THE WATER OR SEWER SERVICE IS REQUIRED IN THE FORM OF A 10-FOOT SLEEVE ON EITHER SIDE OF THE ADJACENT STRUCTURE IN THE FOLLOWING CASES:
- THE MINIMUM 10-FOOT HORIZONTAL SEPARATION SEWER SERVICES AND DRAINS CANNOT BE MET;
 - THE TOP OF THE SEWER BELL IS LESS THAN 1.5 FEET FROM THE BOTTOM OF THE WATER LINE;
 - A STORM DRAIN IS WITHIN 1.5 FEET OF THE WATER LINE; OR,
 - A SEWER MAIN OR CONNECTION IS ABOVE WATER MAIN OR CONNECTION.
- THE SLEEVE SHALL CONSIST OF A LARGER PIPE SURROUNDING THE UTILITY PIPE, WITH FILL BETWEEN THE TWO PIPES AND CEMENT AT THE ENDS.



TAPPING SLEEVE & VALVE ASSEMBLY

NOT TO SCALE



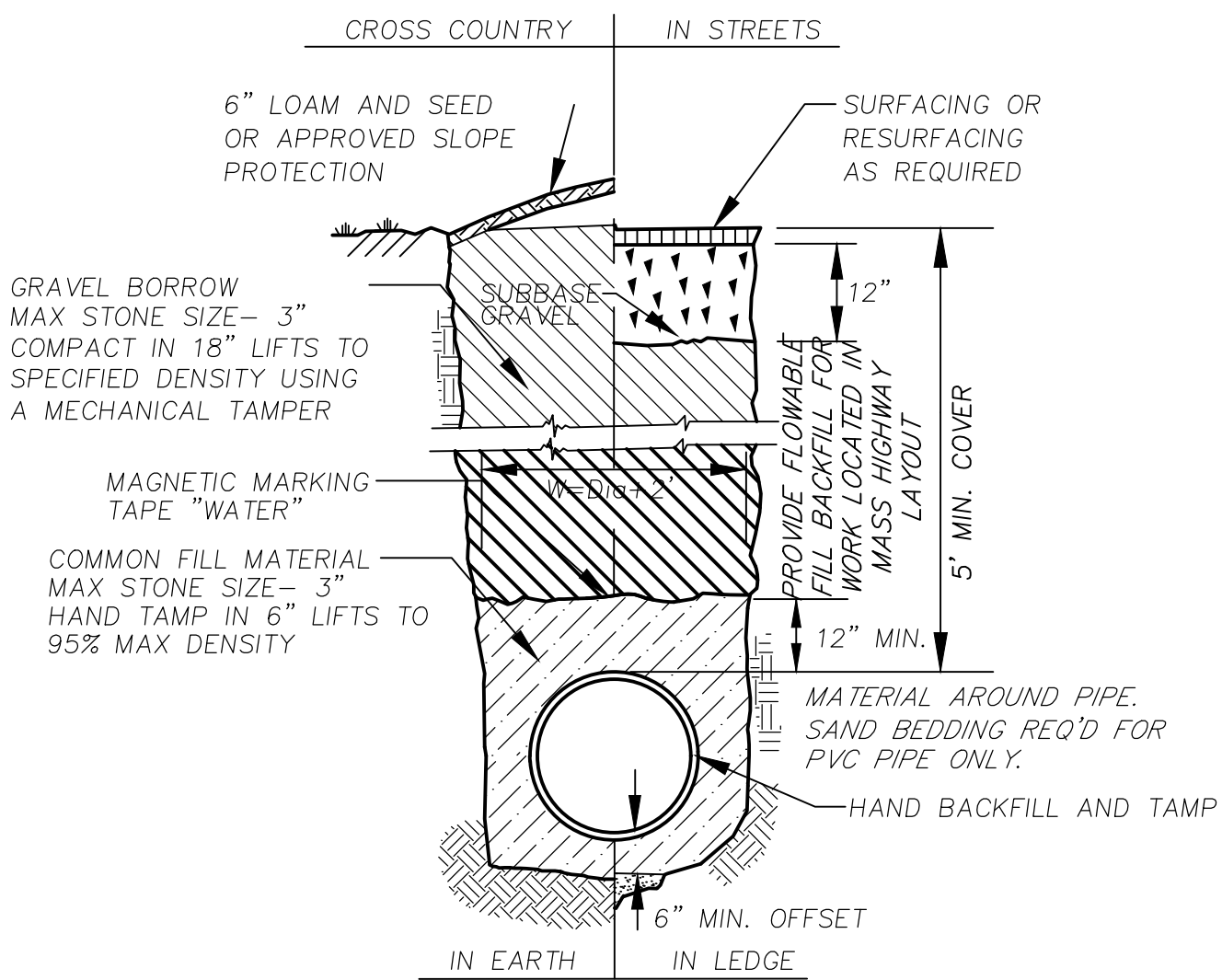
THRUST BLOCK DETAILS

NOT TO SCALE

PIPE SIZE (M.)	AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS IN SQUARE FEET BASED ON 250 P.S.I. & 1.5 TONS/S.F. ALLOWABLE SOIL BEARING CAPACITY				
	1/4 BEND	1/8 BEND	1/16 BEND	PLUG & TEES	
4,6,8	6.0	2.9	2.3	4.5	
10	9.6	5.2	2.3	6.7	
12	13.3	6.7	3.7	9.6	
16	24.0	11.8	3.7	17.0	

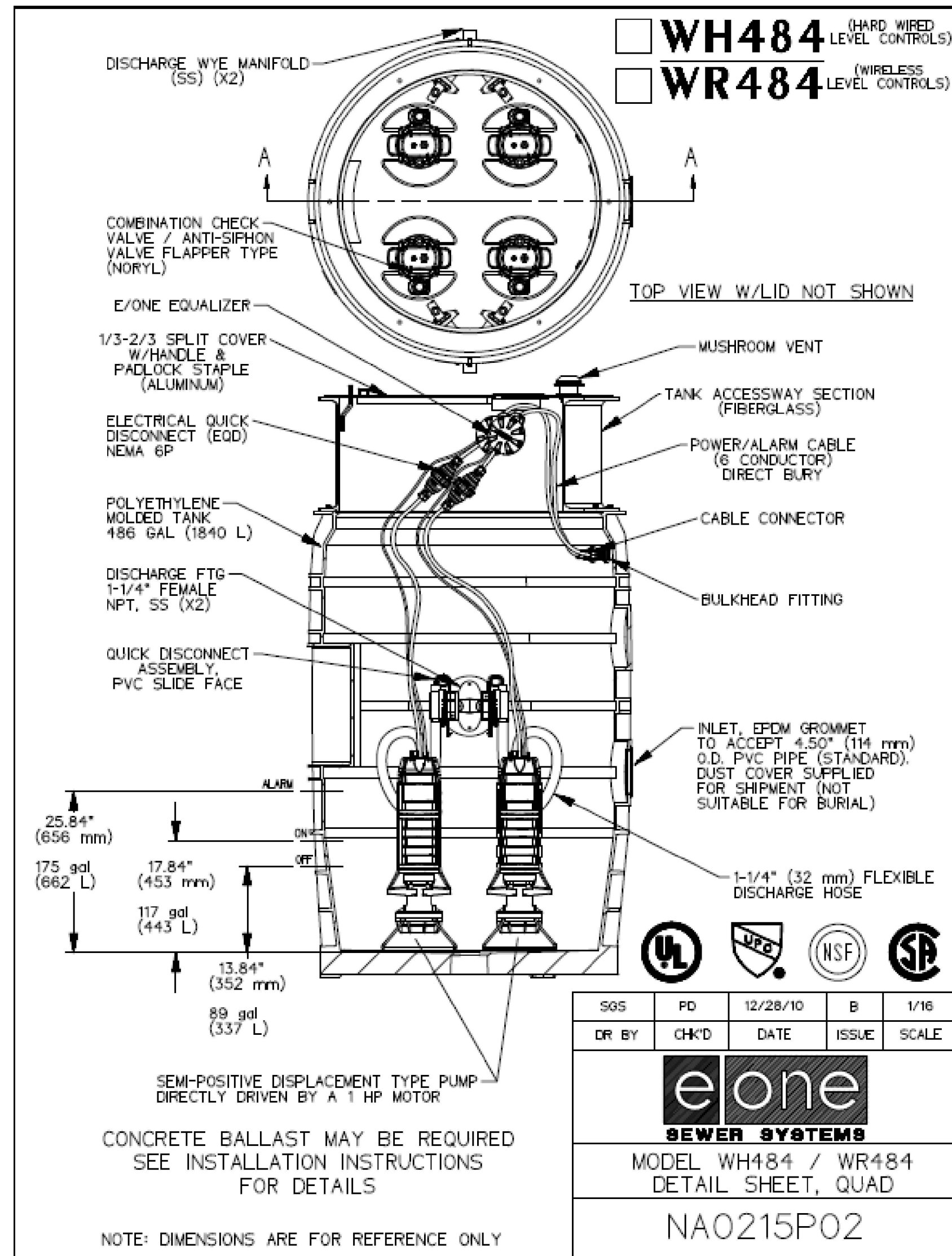
NORMAL FITTING DIAMETER	BEARING AREA - SQ. FT.				
	90° BEND	45° BEND	BETWEEN 10°-45°	BRANCH OF TEE	DEAD END
6"	4	2	2	4	4
8"	7	4	3	5	5

- ALL BENDS, TEES, WYES, HYDRANTS AND DEAD ENDS SHALL BE BRACED WITH CONCRETE THRUST BLOCKS.
- BEARING AREA (H X L) IS AREA OF CONE IN CONTACT WITH WALL OF TRENCH.
- BOULDERS ARE NOT TO BE USED AS THRUST BLOCKS.



TYPICAL WATER MAIN TRENCH

NOT TO SCALE



☐ WH484 (HARD WIRED LEVEL CONTROLS)
☐ WR484 (WIRELESS LEVEL CONTROLS)

TOP VIEW W/LID NOT SHOWN

MUSHROOM VENT

TANK ACCESSWAY SECTION (FIBERGLASS)

POWER/ALARM CABLE (6 CONDUCTOR) DIRECT BURY

CABLE CONNECTOR

BULKHEAD FITTING

INLET EPDM GROMMET TO ACCEPT 4.50" (114 mm) O.D. PVC PIPE (STANDARD). DUST COVER SUPPLIED FOR SHIPMENT (NOT SUITABLE FOR BURIAL)

1-1/4" (32 mm) FLEXIBLE DISCHARGE HOSE

SEM-POSITIVE DISPLACEMENT TYPE PUMP DIRECTLY DRIVEN BY A 1 HP MOTOR

CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

SGS PD 12/28/10 B 1/16

OR BY CHK'D DATE ISSUE SCALE

eone

SEWER SYSTEMS

MODEL WH484 / WR484

DETAIL SHEET, QUAD

NA0215P02



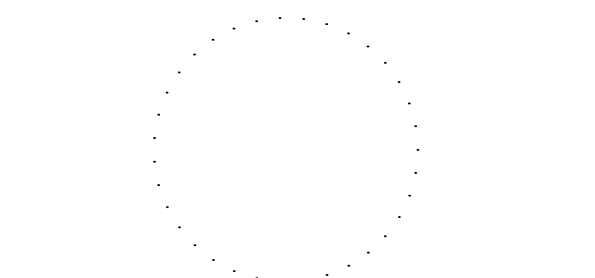
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AUGUST 13, 2020

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www.bwaboston.com

Issue

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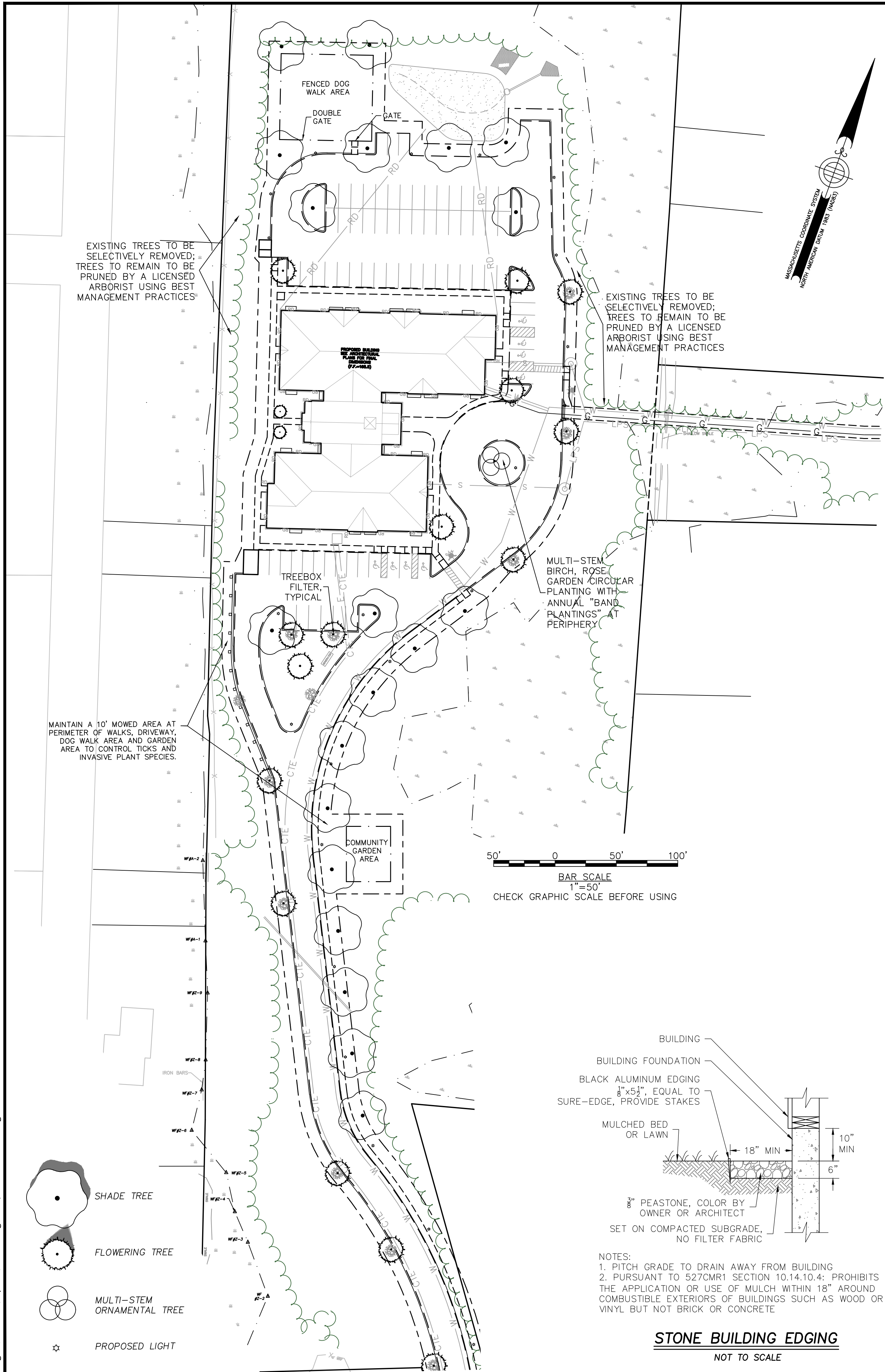
CONSTRUCTION
DETAILS

SHEET NO.

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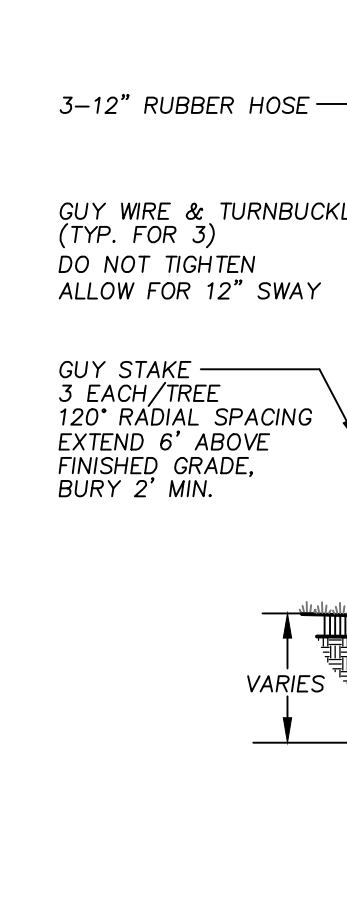
Aug 16, 2020 - 1:58pm - 5278 Design-2019- Greenmont.dwg



LANDSCAPE NOTES:

1. THE SPECIES AND VARIETIES LISTED SHALL BE ADHERED TO IN ALL CASES. WHERE A SUBSTITUTION IS PROPOSED, THE CONTRACTOR SHALL PROVIDE THE OWNER A LISTING OF COST DIFFERENTIALS AND ALL SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT.
2. SEE SITE PLANS AND PLANS WHICH DEPICT WORK OF OTHER TRADES FOR THE LOCATIONS OF BURIED UTILITIES, UNDERGROUND STRUCTURES AND OTHER OBSTACLES THAT MAY IMPACT THE PLANTING SHOWN HEREON.
3. PLANTING PLAN IS DIAGRAMMATIC IN NATURE. FINAL PLACEMENT OF PLANTS TO BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD, CONTRACTOR SHALL ACCOMMODATE THIS IN BASE BID.
4. IN CASE OF CONFLICT BETWEEN LANDSCAPE PLAN AND PLANTING SCHEDULE, THE GREATER NUMBER OR LARGER QUANTITY SHALL BE PROVIDED.
5. NO PLANT MATERIAL SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA, ANY TREES NOTED AS "SEAL OR SELECTED SPECIMEN" SHALL BE TAGGED AND SEALED BY THE LANDSCAPE ARCHITECT.
6. ALL TREES SHALL BE BALLED AND BURLAPPED (B&B) UNLESS OTHERWISE NOTED OR APPROVED BY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
7. ALL PLANTS AND PLANTING METHODS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF "RECOMMENDED STANDARD SPECIFICATION FOR PLANTINGS" AS COMPILED AND ISSUED BY THE ASSOCIATED LANDSCAPE CONTRACTORS OF MASSACHUSETTS. ALL PLANT BEDS AND TREE SAUCERS TO RECEIVE 4" OF PINE BARK MULCH. GROUND COVER AREAS SHALL RECEIVE 1" OF PINE BARK MULCH.
8. ANY FALL TRANSPLANTING HAZARD PLANTS SHALL BE DUG IN THE SPRING AND STORED FOR FALL PLANTING, UNLESS OTHERWISE APPROVED BY LANDSCAPE ARCHITECT.
9. TREES SHALL HAVE A MINIMUM CALIPER AS INDICATED ON THE PLANTING SCHEDULE TAKEN ONE FOOT ABOVE THE ROOT CROWN.
10. ALL PLANTS SHALL BE WARRANTED FOR A MINIMUM OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE LANDSCAPE ARCHITECT. SHOULD ANY PLANTS DIE, EXHIBIT UNDESIRABLE DIE-BACK OR DISEASE DAMAGE, THEY SHALL BE REPLACED, AT NO ADDITIONAL COST TO THE OWNER WITH PLANTS MEETING THE ORIGINAL SPECIFICATIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ADEQUATE WATER SUPPLIES TO THE PLANT MATERIALS UNTIL ACCEPTANCE OF THE LANDSCAPE BY THE LANDSCAPE ARCHITECT HAS OCCURRED.
12. THE CALIPER OF ALL TREES SHALL BE MEASURED FOUR (4') FEET ABOVE THE ROOT BALL OR GROUND LINE, WHICHEVER IS HIGHER.
13. ALL DECIDUOUS TREES ADJACENT TO WALKWAYS AND ROADWAYS SHALL HAVE A BRANCHING PATTERN TO ALLOW FOR A MINIMUM OF 7' OF CLEARANCE BETWEEN THE GROUND AND THE LOWEST BRANCH.
14. ALL PARKING ISLANDS PLANTED WITH SHRUBS SHALL HAVE 18" OF TOP SOIL. FINISH GRADE SHALL BE EQUAL TO THE TOP OF CURB.
15. PLANTING SEASONS:
SPRING SEASON:
FOR ALL PLANTING IS FROM APRIL 1ST TO JULY 15TH
FALL SEASON:
FOR ALL EVERGREEN MATERIALS IS FROM AUGUST 15TH TO NOVEMBER 15TH
FOR ALL DECIDUOUS TREES, SHRUBS AND GROUND COVERS IS FROM AUGUST 15TH TO NOVEMBER 1ST.
16. FERTILIZER USE & APPLICATION SHALL CONFORM TO 330 CMR 31.00 FOR NON-AGRICULTURAL APPLICATION OF NITROGEN FERTILIZERS. SOIL SAMPLES, TESTS, AND SHOP DRAWINGS SHALL BE PROVIDED TO THE LANDSCAPE ARCHITECT OR THE OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
17. CONTRACTOR RESPONSIBLE FOR ALL LAWN AND PLANTED GROUND COVER AREAS AND WATERING, AND RESEEDING OF BARE SPOTS UNTIL A UNIFORM STAND OF VEGETATION IS ESTABLISHED AND ACCEPTED.
18. ALL SLOPES IN EXCESS OF 3:1 (HORIZONTAL TO VERTICAL) SHALL BE STABILIZED SLOPES, SEE THE PROVISIONS OF SPECIFICATION SECTION-EROSION AND SEDIMENTATION CONTROL AND RELATED SECTIONS.
19. A MINIMUM 18" WIDE BARRIER OF 1" GRAY OR TAN PEASTONE SHALL BE INSTALLED IN ALL PLANT BED WHICH ABOUT THE BUILDINGS. NO MULCH IS ALLOWED WITHIN 18" OF ALL BUILDINGS PER THE LATEST EXECUTIVE OFFICE OF PUBLIC SAFETY AND SECURITY DEPARTMENT OF FIRE SERVICES REGULATION (527 CMR 17.00). INSTALL 6" DEEP OF PEASTONE WITH MIRAFI WEED FABRIC BENEATH AND STEEL EDGING BETWEEN THE PEASTONE AND ADJACENT MULCH BED.
EXCEPTION: ANY BUILDING, REGARDLESS OF THE EXISTENCE OF FIRE SEPARATIONS, CONTAINING SIX DWELLING UNITS OR LESS.

ALL TREES TO BE 3" DIA-
AT DBH, 12' MIN. HT.



DECIDUOUS TREE PLANTING

NOT TO SCALE

SHRUB PLANTING

NOT TO SCALE

EVERGREEN TREE PLANTING

NOT TO SCALE

SEEDING NOTES:

1. ALL DISTURBED AREAS, INCLUDING SLOPES AND THE DETENTION BASIN, SHALL BE GRADED AND STABILIZED BY PLANTING OR OTHER METHOD AS SHOWN OR SPECIFIED ON THE PLANS.
2. A MINIMUM OF 6" OF LOAM SHALL BE APPLIED TO ALL SURFACES TO BE SEED. LOAM SHALL BE UNIFORMLY APPLIED, SHAPED AND SMOOTHED.
3. LOAM ACIDITY SHALL BE CHECKED AND ADJUSTED TO A PH OF 6.5, APPLY LIME AT A MINIMUM RATE OF 50 LBS PER 1,000 SQUARE FEET, IF NECESSARY. (IF PERMITTED BY THE ORDERS OF CONDITIONS ONLY).
4. ORGANIC-SLOW RELEASE FERTILIZER OF A TYPE 5-2-2 APPLIED AT A RATE OF 50 LBS PER 500 SQUARE FEET. (IF PERMITTED BY THE ORDERS OF CONDITIONS ONLY).
5. RAKE A SEED BED USING A YORK RAKE OR HAND RAKING TO A MINIMUM DEPTH OF 3" THOROUGHLY INCORPORATING LIME AND FERTILIZER.
6. SEEDING MAY BE PERFORMED BY HAND, MECHANICAL OR TRACTOR MOUNTED SPREADER. HYDROSEEDING IS RECOMMENDED.
7. SEEDING BEFORE APRIL 15 OR AFTER OCTOBER 15, SHALL BE REAPPLIED BETWEEN THESE DATES IF A MINIMUM GERMINATION OF 90% DETERMINED BY SURFACE AREA COVERAGE, HAS NOT OCCURRED OR IF THE SURFACE AREA HAS ERODED OR BECOME UN-STABILIZED.
8. SEEDING
 - 8.1. HAND SEEDING:
 - 8.1.1. SEED SHALL BE APPLIED BY HAND OR BROADCAST SPREADER TO PROVIDE A UNIFORM DISTRIBUTION OF SEED.
 - 8.1.2. SEED SHALL BE LIGHTLY RAKED INTO A DEPTH OF 1/2"-1", WITH ALL RAKING TO BE PERPENDICULAR TO THE SLOPE.
 - 8.1.3. SEED IS TO BE ROLLED WITH A WATER BALLAST ROLLER TO INSURE CONTACT OF SEED WITH SOIL. DO NOT COMPACT SOIL.
 - 8.1.4. AREA SHALL BE MULCHED USING SEED-FREE STRAW TO ADEQUATELY COVER THE AREA TO A DEPTH OF 1/2"-1", INSURING A UNIFORM COVER OF 75% OF THE SURFACE AREA.
 - 8.1.5. MULCH SHALL BE SECURED BY MEANS OF SECURED LANDSCAPE FABRIC, EROSION CONTROL NETTING (3/4" - 1" MESH), OR OTHER BIODEGRADABLE MATERIAL WHICH WILL INSURE ADEQUATE COVER UNTIL THE SURFACE HAS GROWN TO 90% GERMINATION, OR ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
 - 8.2. HYDROSEEDING
 - 8.2.1. HYDROSEEDING IS ENCOURAGED FOR ALL AREAS, ESPECIALLY FOR LARGE AREAS AND STEEP SLOPES.
 - 8.2.2. HYDROSEEDING SHALL BE PERFORMED IN A SINGLE UNIFORM LAYER.
 - 8.2.3. A TRACK EQUIPPED MACHINE SHALL TRAVEL PERPENDICULAR TO ANY SLOPE TO PROVIDE SHALL COMPACTED SURFACE DEPRESSIONS FOR HYDROSEEDING TO CATCH. SUCH TRACKS SHALL BE A MINIMUM OF THREE (3') FEET ON CENTER FOR THE TOTAL LENGTH OF THE SLOPE.
 - 8.2.4. APPLICATION RATES ON SLOPES GREATER THAN 3:1 (HORIZONTAL TO VERTICAL) OR GREATER SHALL HAVE A MINIMUM SEEDING RATE OF 4LBS/1000SF.
 - 8.2.5. A LATEX OR FIBER TACKIFIER SHALL BE USED ON ALL AREAS AT THE RATE RECOMMENDED BY THE MANUFACTURER AND ON ALL SLOPES IDENTIFIED ABOVE (NO. 4), A MINIMUM RATE OF 50LBS OF TACKIFIER PER 500GALS OF WATER SHALL BE USED.
 - 8.2.6. FERTILIZER AND LIME MAY BE INCORPORATED INTO THE HYDROSEED MIXTURE IN THE QUANTITIES AND TYPE IDENTIFIED PREVIOUSLY. (IF PERMITTED BY THE ORDERS OF CONDITIONS ONLY).
9. SEED MIXTURE
 - 9.1. ALL SEED SHALL BE OF THE PREVIOUS YEAR'S CROP AND SHALL HAVE A QUANTIFIED MIXTURE ANALYSIS ATTACHED. NO MORE THAN 10% OF TOTAL MIXTURE SHALL CONSIST OF WEED SEED SPECIES.
 - 9.2. SEED MIXTURE TYPE "A": SEED MIXTURES FOR LAWN AREAS SHALL CONSIST OF A STANDARD LAWN MIX CONTAINING A MINIMUM OF 80% PERENNIAL SPECIES, AND SHALL CONFORM TO THE FOLLOWING STANDARDS:
MINIMUMS (BY TOTAL WEIGHT OF MIX):
40% KENTUCKY BLUEGRASS
20% CHEWINGS FESCUE
20% PERENNIAL RYEGRASS
20% ANNUAL RYE OR OTHER ANNUAL SPECIES*

* NO MORE THAN 20% OF THE TOTAL MIX, BY WEIGHT, SHALL CONSIST OF ANNUAL RYE OR OTHER ANNUAL SPECIES. APPLY AT A RATE OF 4 LBS PER 1,000 SQUARE FEET, OR 170 LBS. PER ACRE.
 - 9.3. SOD: SEE SPECIFICATIONS
 - 9.4. SEED MIXTURE TYPE "C": SEED MIXTURES FOR SLOPED AREAS SHALL CONSIST OF A STANDARD CONSERVATION MIX CONFORMING TO THE RECOMMENDATIONS OF THE U.S. NATURAL RESOURCES SERVICES GUIDELINES (FORMERLY THE SOIL CONSERVATION SERVICE, SCS) AND SHALL CONFORM TO THE FOLLOWING STANDARDS:
MINIMUMS (BY TOTAL WEIGHT OF MIX):
20% ANNUAL RYE*
15% RED TOP FESCUE
10% WHITE CLOVER
5% LADINO CLOVER

*NO MORE THAN 40% OF THE TOTAL MIX, BY WEIGHT, SHALL CONSIST OF ANNUAL RYE OR OTHER ANNUAL SPECIES. APPLY AT A RATE OF 4 LBS PER 1,000 SQUARE FEET.
 - 9.5. SEED MIXTURE TYPE "D": BASIN MIX SHALL BE AS MANUFACTURED BY NEW ENGLAND WETLANDS PLANTS, INC., AMHERST, MA, "WET MIX".
 - 9.6. WILDFLOWER MEADOW MIX SHALL BE "NEW ENGLAND WILDFLOWER MIX" BY NEW ENGLAND WETLANDS PLANTS, INC., AMHERST, MA, OR "NATIVE NORTHEAST WILDFLOWER SEED MIX" BY AMERICAN MEADOWS, WILLISTON, VT



155 Merrimack Street 2nd Floor
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DRACUT CENTER
SENIOR HOUSING

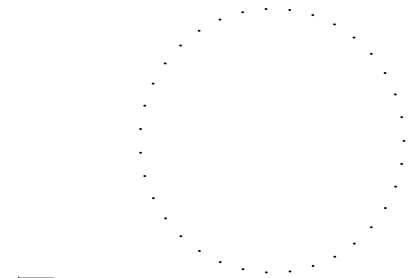
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Littleton, MA 01460
(978) 486-0334
www.placesassociates.com



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Issue

No.	Description	Date
01	50% SCHEMATIC	10/23/19
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03	REVIEW COMMENTS	8/13/2020

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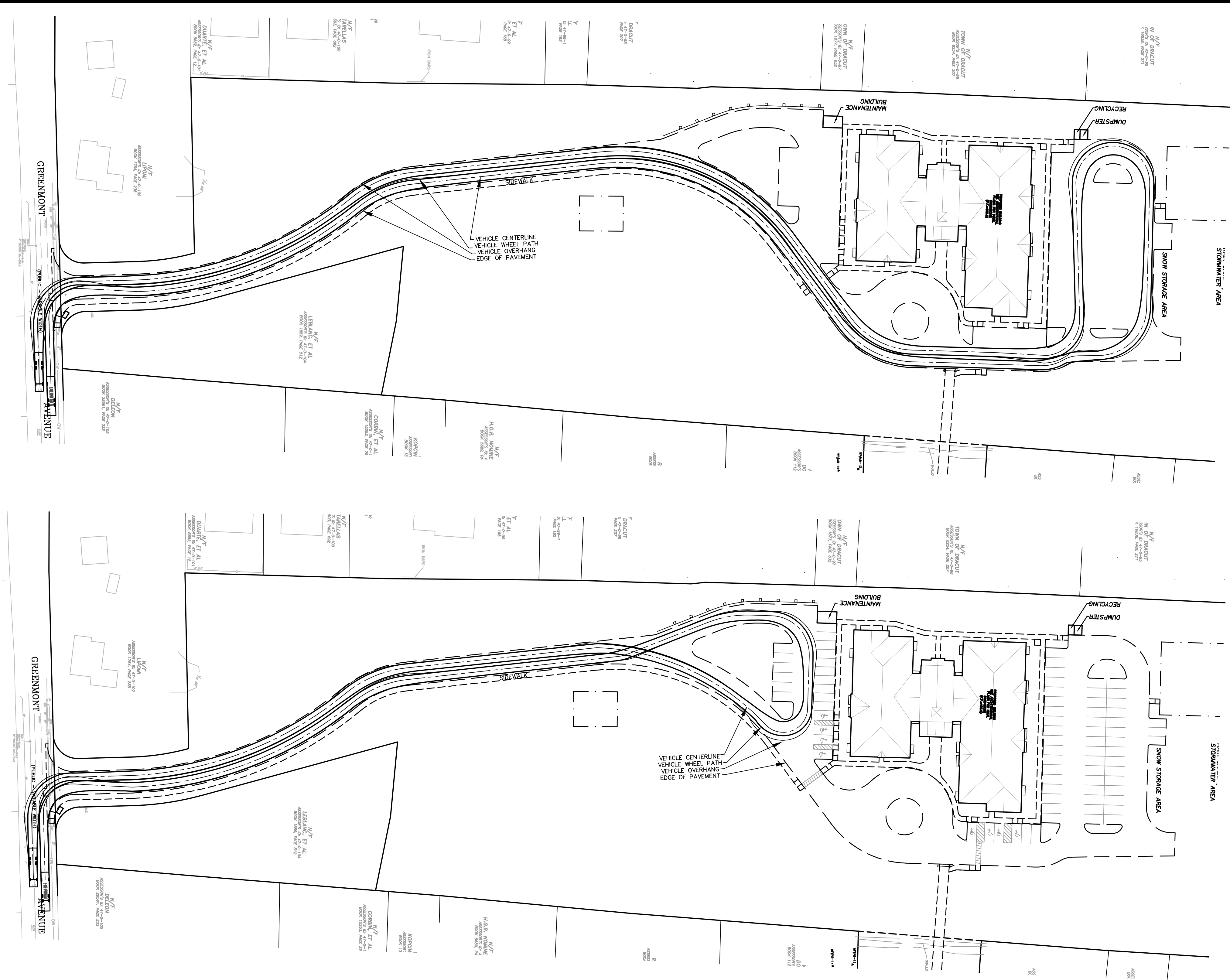
LANDSCAPE
PLAN

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L-1

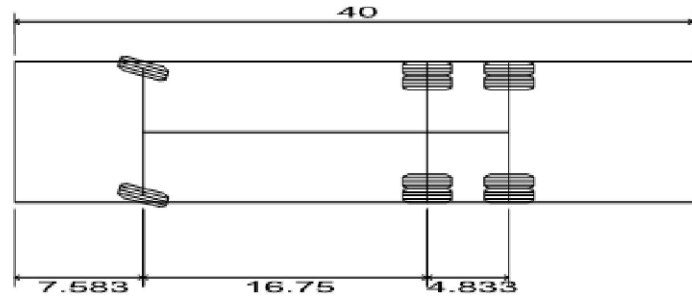
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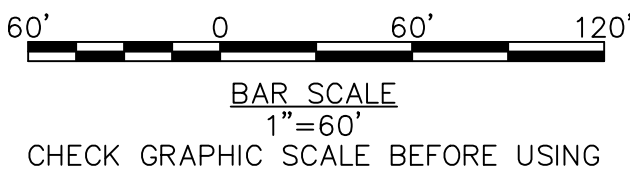


E-ONE HP 100 AERIAL LADDER TRUCK
TURNING MOVEMENTS PLAN

Vehicle Tracking Vehicle Details	Ref:
Unit Name:	E-ONE HP100 Aerial Tractor
Type:	Tractor (with driver controlled steering)
Body style:	Fire Tender
Classification:	(Unspecified)
Source:	No data
Description:	No data
Notes:	No data
Datum:	Front Primary Axle
Front Axle(s):	1 Ackerman (axles fixed, wheels turn)
Primary Front Axle Offset:	0.000ft
Effective Front Axle Offset:	0.000ft (Auto Calculated)
Maximum Wheel Angle:	45.000deg (Any Front Wheel)
Status:	Active Non Self-Steered
Track Width:	8.333ft
Total Wheels:	2 (positioned at the ends of the axle)
Tire Width:	0.833ft (Auto Calculated - proportion of Track Width)
Tire Diameter:	2.917ft (Auto Calculated - proportion of Track Width)
Rear Axle(s):	2 Fixed (All axles identical)
Primary Rear Axle Offset:	16.750ft (Innermost Axle behind Front Primary Axle)
Effective Rear Axle Offset:	19.167ft (Auto Calculated)
Maximum Wheel Angle:	Unlimited
Rear Axle Spacing:	4.833ft
Status:	Active Non Self-Steered
Track Width:	8.333ft
Total Wheels:	4 (positioned at the ends of the axle)
Tire Width:	0.833ft (Auto Calculated - proportion of Track Width)
Tire Diameter:	2.917ft (Auto Calculated - proportion of Track Width)
Steering:	Front Axle(s):
Maximum Wheel Angle:	See Front Axles: Maximum Wheel Angle
Calculated Maximum Wheel Angle:	45.000deg
Lock-to-Lock Time (Fwd/Rev):	6.0sec / 6.0sec
Driver / Pilot:	
Driver Offset Longitudinally:	-2.662ft (in front of Front Primary Axle)
Driver / Pilot Offset Laterally:	-1.969ft (Right of Centerline)
Driver Height:	8.202ft (Above ground level)
Front Coupling:	None
Rear Coupling:	None
Body outline (plan):	
Outline Type:	Rectangle
Offset (X,Y):	-7.583ft, 0.000ft
Length / Width:	40.000ft / 8.333ft



E-ONE HP100 Aerial	40.000ft
Overall Length	8.333ft
Overall Width	1.000ft
Overall Body Height	1.393ft
Min Body Ground Clearance	8.333ft
Track Width	6.00s
Lock-to-lock time	45.00°
Max Wheel Angle	



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