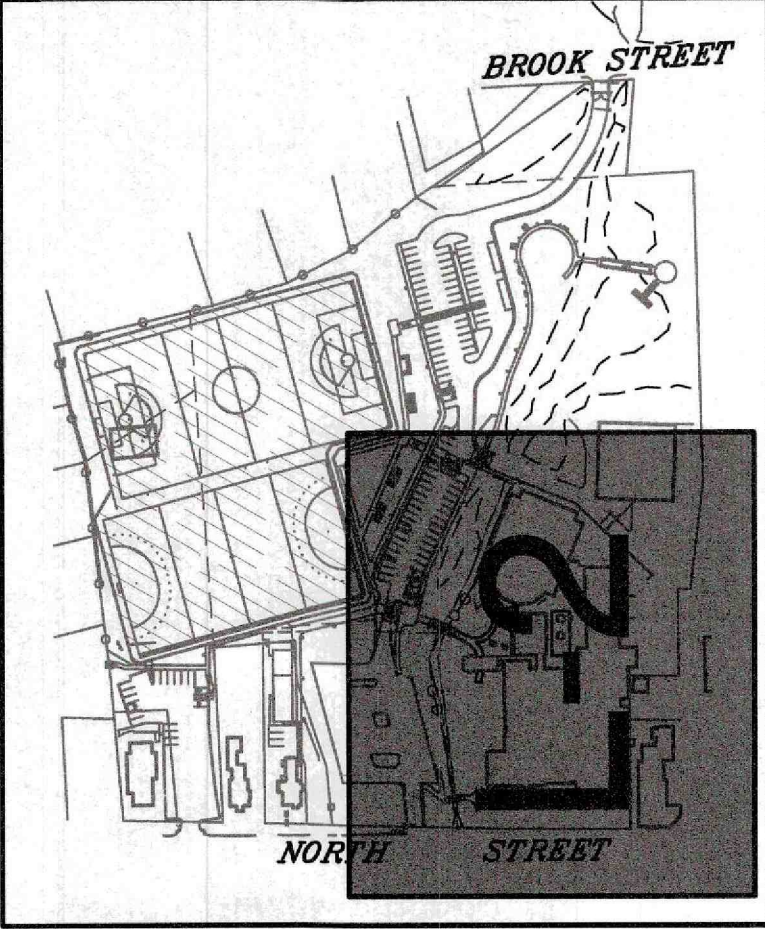
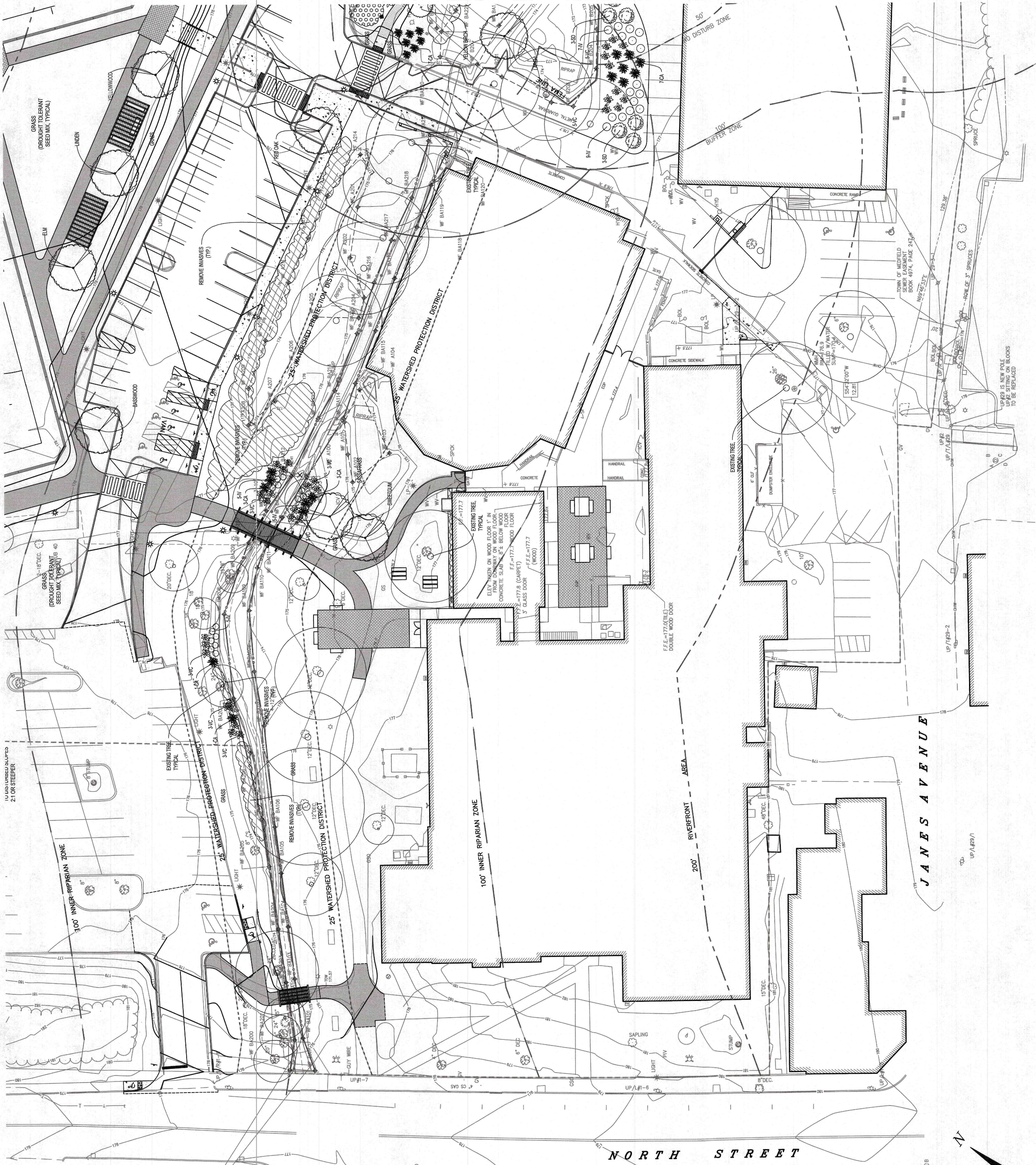


- NOTES:
- EXISTING INFORMATION SHOWN IS TAKEN FROM A DIGITAL FILE NAMED "topo_085661.dwg" AND RECEIVED ON 4-12-2024 VIA EMAIL FROM MICHAEL COLE. PLAN WAS PREPARED BY CHA.
 - SEE SHEET L-5 FOR LANDSCAPE DETAILS AND NOTES



KEY MAP

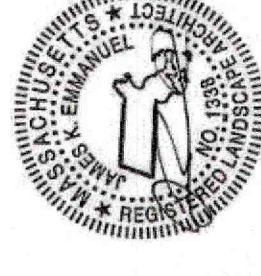
SCALE: 1" = 20'

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L-2

LANDSCAPE PLAN 'A'			
DATE	07/31/2024	SCALE	1"=20'
PROJECT	MSC24-001	REVISION	
REV#	DATE	BY	DESCRIPTION

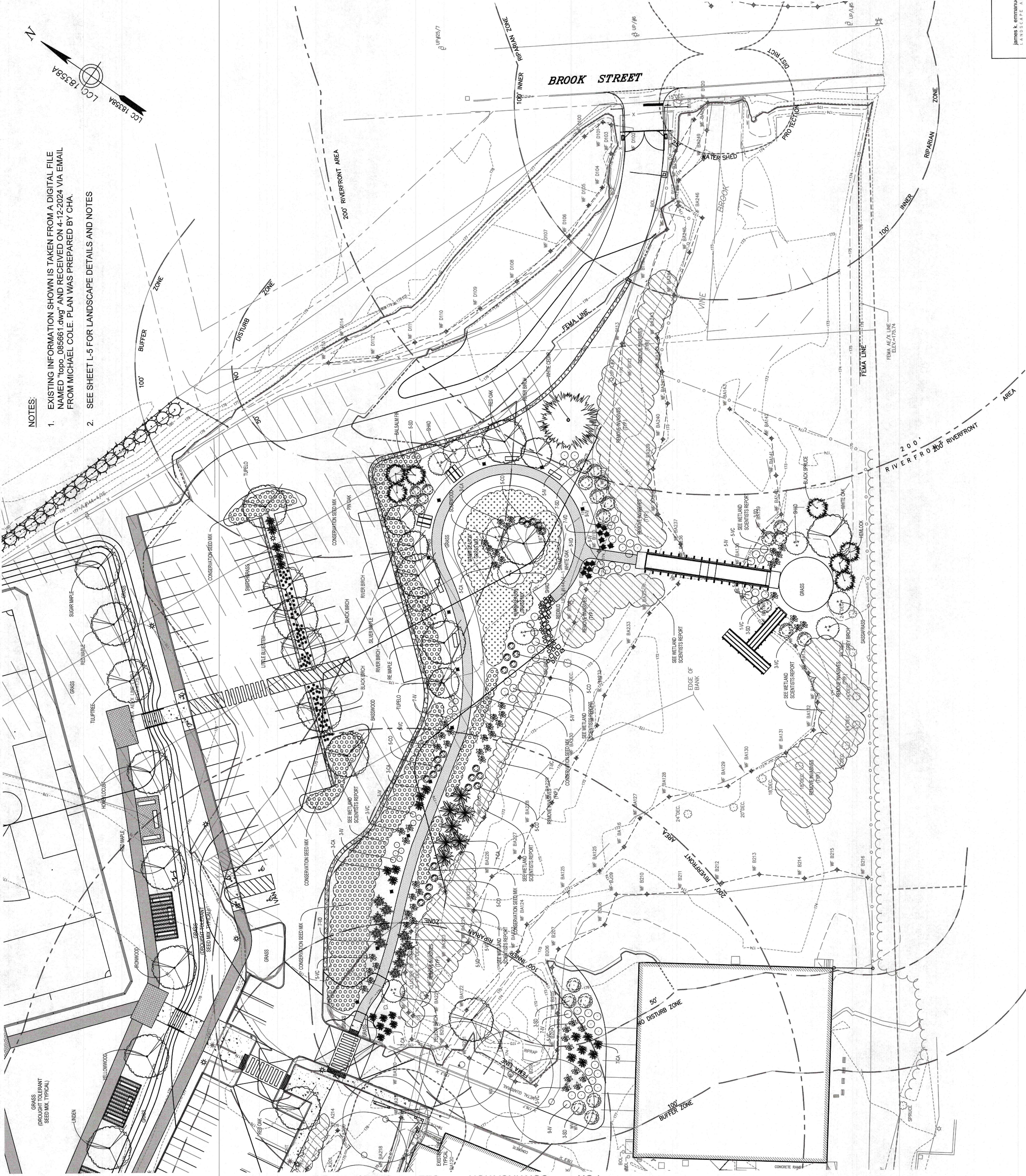
MONTROSE SCHOOL
SITE IMPROVEMENTS
29 North Street
Methuen, Massachusetts 01842



Robert Olson+Associates Architects
374 Congress Street
Boston, MA 02210
617-338-2790

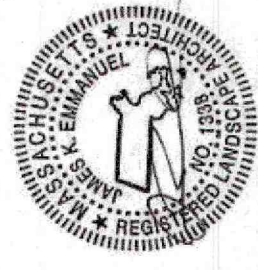
DRAWN BY:	DMK	DESIGNED BY:	FAK
CHECKED BY:	DTW	APPROVED BY:	AD
121 E. Broadway Street, 4th Floor, Boston, MA 02118 Tel: 617-357-8145 Fax: 617-357-9459 web: hwmoores.com			

H.W. Moore
S O C I A L
CIVIL ENGINEERING & LAND PLANNING
A DIVISION OF HANCOCK SURVEY ASSOCIATES



1. EXISTING INFORMATION SHOWN IS TAKEN FROM A DIGITAL FILE NAMED "topo_085661.dwg" AND RECEIVED ON 4-12-2024 VIA EMAIL FROM MICHAEL COLE. PLAN WAS PREPARED BY CHA.

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MONTROSE SCHOOL
MONTROSE SCHOOL CAMPUS PLAN
SITE IMPROVEMENTS
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Medfield, Massachusetts 01420

LANDSCAPE PLAN 'C'			
DATE:	07.31.2024		
SCALE:	1"=20'		
PROJECT:	MSCP-2401		
REV. #	DATE	BULLET.	
1	10.10.2024	VINE	
2	11.18.2024	VINE NOTE	

4.

james k. emmanuel | associates
LANDSCAPE ARCHITECTS



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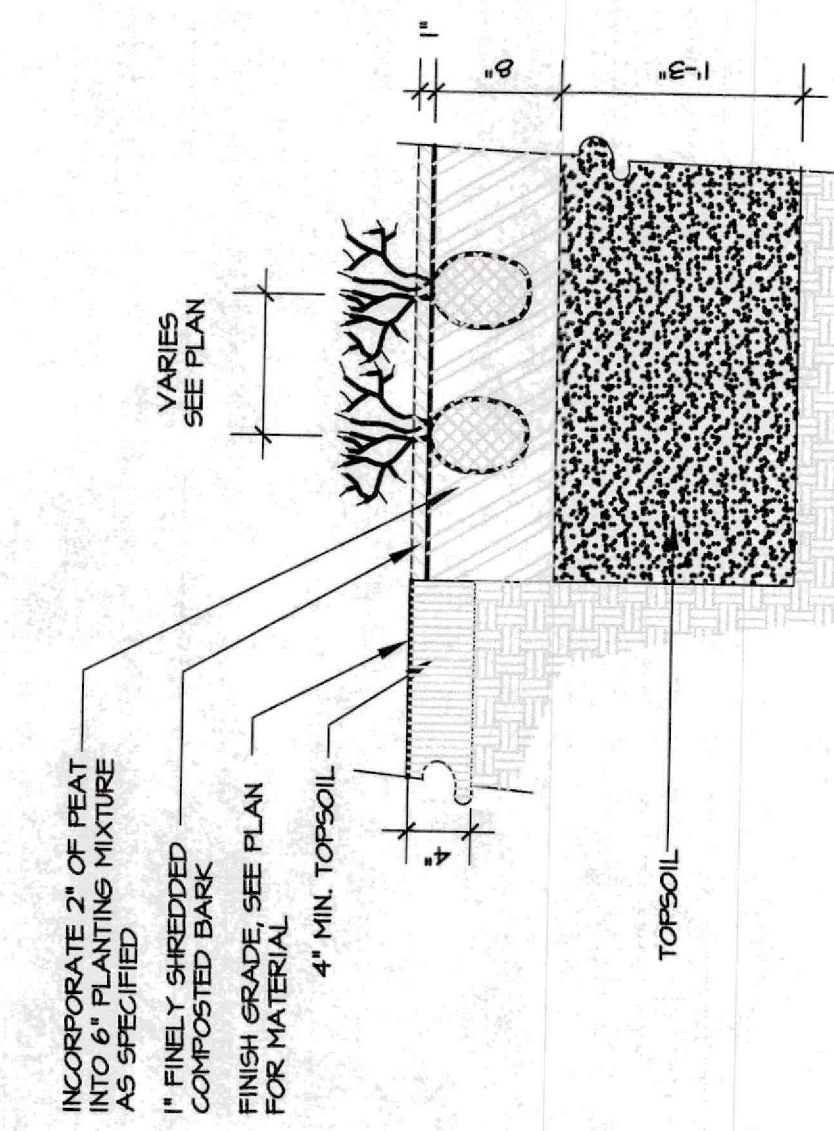
james@jamesemmanuel.com
www.jamesemmanuel.com

SCALE: 1" = 20'

A horizontal scale bar with tick marks at 0, 20, 40, and 80 feet. The bar is divided into four equal segments, each representing 20 feet.

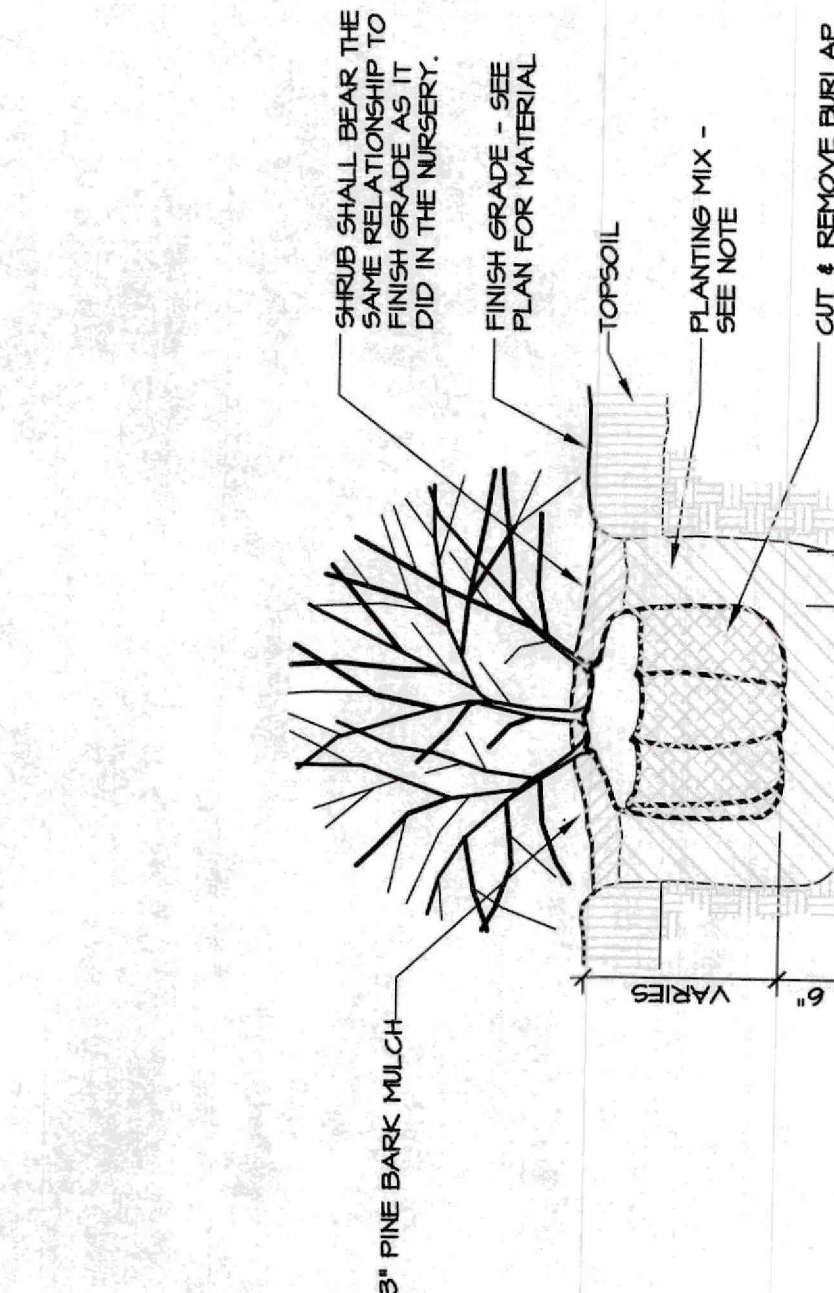
Notes:

- All work done within the Resource Areas, including selective clearing, removal of invasive species, grading, soils placement, and planting, shall be done under the direct supervision of a qualified Wetland Scientist (WS). The WS shall be on site to monitor construction to ensure compliance with the approved plans and to make adjustments as needed to meet the project objectives. Final adjustments may include but are not necessarily limited to modifications to grading, soil amendments, sediment controls, and plantings (both species and placement, depending on nursery availability) based on site specific conditions at the time of construction.
- Prior to the start of construction the contractor shall provide for review and approval the following information:
 - Written qualifications, demonstrating project experience, and credentials of the designated WS that will be overseeing buffer zone plantings. At a minimum, the WS shall have at least 10 years demonstratable experience designing, overseeing construction, and monitoring installation of native plantings on restoration sites.
 - The contractor shall consult with a qualified Invasive Species Control Specialist and submit an Invasive Species Control and Monitoring Plan that describes and maps in sufficient detail the locations of significant stands of invasive species on the Project Site (i.e., baseline invasive conditions), proposed invasive species control measures prior to the start of planting installation. The Invasive Species Control and Monitoring Plan shall include, but not be limited to hand removal, mechanical, and chemical treatment methods to control invasives within existing on-site wetlands and buffer zones.
 - Project Surveyors shall re-establish and re-label wetland flags as per the record drawings using wooden stakes. The stakes shall remain in place until the plantings have become fully established.
 - The limits of excavation around existing trees within the Resource Areas that are not scheduled to be removed as part of the site construction limits of work, shall be identified, flagged and reviewed prior to initiating planting activities. The limits of site preparation work for the planting areas shall not extend closer than the tree excavation line to minimize impacts to the underlying root structure. Hi-visibility exclusion fencing (e.g., snow fencing) shall be installed around the perimeter of the identified trees drip lines to protect the trees from encroachments during construction. Trees may be protected in groups rather than individually. Excavation of materials only may be allowed within canopy of trees to remain after consultation with the WS.
 - Prior to construction, erosion control and sediment control barriers shall be installed per approved plans and approved by the Commission.
 - Existing invasive plant materials shall be cleared and grubbed from the limits of work and promptly removed from the property to reduce opportunity for invasive species propagation and spreading.
 - Any topsoil removed from the resource areas during the selective invasives removal process is not suitable for re-use due to the presence of invasive species and shall be segregated from other excavated soil piles. All impure topsoil shall be removed and disposed of offsite.
 - Excess excavated topsoil at the athletic fields or other areas on-site may be used if approved by the WS. The contractor shall demonstrate, through soil testing, that on-site soils meets the site requirements.
 - Imported topsoil shall be fertile, friable, natural loam, dark in color (often black), free of sub soil, clay lumps, brush, weeds, invasives, roots, stumps, stones larger than 1-1/2" in any dimensions, debris, and other extraneous or toxic matter and harmful to plants and animals from local sources. The texture shall be loam to sandy loam as defined by USDA Textural Soil Classification System or Soil Science Society of America Official Soil Science Terms. The Contractor shall provide the WS with a minimum 2-inch layer of stratification and not submit a sample, a laboratory gradation test, and a written certification from the supplier confirming compliance with these requirements at least four weeks prior to delivery of topsoil to the property for review and acceptance.
 - Planting Mix used within the individual plant root excavations shall consist of the required topsoil amended with sphagnum peat moss at a ratio of 8 to 1 (topsoil to peat moss). Peat moss shall be 100 percent peat moss product which is free from bacteria, fungi, and weed seeds. Contractor shall submit a half square foot sample and product information to the WS at least 4 weeks prior to delivery for review and acceptance.
 - Mulch shall be pure recycled shredded pine bark mulch, uniform in size, color, quality and appearance. The mulch shall be free of weeds and invasive plant parts or seeds. Contractor shall submit a half square foot sample and product information to the WS at least 4 weeks prior to delivery for review and acceptance.
 - The imported topsoil shall be deposited in a manner that minimizes travel and subsequent compaction. Should topsoil be compacted, they shall be loosened by a method such as rototilling.
 - In consultation with the WS shall identify specific locations in the planting area to install the plantings considering topography, soil conditions and other relevant features that will contribute to the survival of the plantings. In consultation with the WS shall oversee the planting work to ensure conformance with this specification. Plantings shall be clustered and spaced randomly at the direction of the supervising Landscape Architect (LA) in consultation with the WS, to simulate natural growth patterns and where appropriate structural context with other plantings can be maintained.
 - Individual plants or groups of plants shall have planting mix and topsoils within their planting excavation fill areas, a minimum of 18 inches from each plant. Finished with 3 inches of mulch to reduce the threat of competition from herbaceous species during the first growing season. In planting areas with slopes steeper than 4 to 1 a biodegradable fiber blanket shall be stapled or staked into the soil under the mulch.
 - Where seeding is required to stabilize disturbed and re-graded bare soil portions of the disturbed area, it shall be sown with the seed mix referenced on the drawings and approved by the Commission in accordance with manufacturer's specifications. To minimize the spread of invasive plant species, the seed mix shall be sown immediately after the woody plantings are installed (provided field conditions are suitable for seeding as per the manufacturer's recommendations), and covered with a minimum 2-inch layer of stratification to reduce the potential spread of invasive plants, the use of hay mulch is prohibited). Or, if not within the growing season, by mulching with tackifiers. Sediment and erosion controls should be removed once all disturbed areas have been stabilized, as approved by the LA in consultation with the WS.
 - Areas of Resource Area disturbance with grades greater than 3:1 slopes shall be stabilized with the seed mix specified by the WS and erosion control blankets.
 - Following planting, the Contractor shall document to the WS that the area has been constructed in substantial compliance with the drawings. Such documentation shall be accompanied by a stamped as-built plan provided by a Massachusetts Professional Land Surveyor. The as-built plan shall depict the locations of installed plantings and final grading.
 - Remedial native planting measures shall be considered if native plantings or germination do not achieve, at minimum 75% vegetative coverage after five (5) growing seasons. Remedial measures may include replanting, relocating plantings, removal of invasive species, and/or changing soil composition and depth. In addition, the Contractor shall be permitted to remove dead or broken branches. Any damaged herbaceous material, trees and/or shrubs that have died shall be replaced by the Contractor at no cost to the Owner.
 - As required, remove erosion control and sediment control barriers and properly disposed of by the Contractor after the area is deemed stable by the LA and WS. Sediment collected by these devices shall be removed and disposed of in a manner that prevents erosion and transport to a waterway or wetland.
 - The native plantings and wetland seed mix shall conform to the approved record drawing. The LA may propose substitutions to the WS for review and approval relative to species, size, and quantities if there is limited availability of plant stock at the time of planting. All plant material shall be purchased from a New England nursery and guaranteed by the contractor to be in vigorous growing condition. If the plant material is purchased from a nursery located outside New England or from a local nursery that obtains its plant material from outside New England, the WS shall inspect plant material at the time of delivery to assess health and vigor and confirm that the quantities, size, and native species conform to the approved planting plan and record drawing shall have the authority to reject any plant material they determine does not meet these criteria or permit conditions.
 - Plant material shall be planted on the day of delivery. In the event this is not practicable, the contractor shall protect, and water stock not planted in consultation with the LA, WS, and nursery. Plants shall not remain unplanted for longer than a 3-day period after delivery to the site. Any plants not installed during this 3-day period may be rejected by the LA or WS.
 - Quality and size of plants, spread of roots, and size of balls shall be in accordance with ANSI Z60 (REV 1980) "American Standard for Nursery Stock" as published by the American Association of Nurserymen, Inc. For example, the proposed 2-inch caliper tree plantings identified on the approved planting table shall have a minimum root spread of 24-inches.
 - All plants shall be planted in transported topsoil that is thoroughly watered and tamped as back filling progresses. Raise and replant any plant which settles more than 2-inches after planting and watering.
 - Plants shall not be bound with wire or rope at any time to damage the bark or break branches. Plants shall be handled from the bottom of the ball or container only.
 - Planting operations shall be performed during periods within the planting season when weather and soil conditions are suitable as determined by the supervising LA in consultation with the WS. This is typically between April 15 and June 15 and September 15 through November 15. Plantings shall not be installed in topsoil that is in a muddy or frozen condition. The site shall be responsible for re-setting any plants that become dislodged or uprooted because of frost heaves or other environmental factors during the first two (2) growing seasons.
 - Set all plants plumb and straight. Locate plant in the center of the pit.
 - The seed mix within the wetland buffer zones shall be sown according to the manufacturer's recommendations and specifications. A manufacturer's Certificate of Compliance to the specification shall be provided by the manufacturer with each shipment of seed and submitted to the LA and WS. These certificates shall include the guaranteed percentages of purity, weed content and germination of the seed and also the net weight and date shipped. No seed may be sown until the General Contractor has submitted the certificates to the LA and WS.
 - Water is crucial for good upland plant establishment. Due to unpredictability of short term local hydrologic conditions and the need for additional care to establish new plantings in upland environments, watering is required during the first two (2) growing seasons after planting. All newly planted areas should receive approximately 1-inch of water per week during the growing season from April through October. Temporary irrigation may include drip tubing on a liner to be removed after establishment.
 - Contractor might consider alternative technologies such as TreeGator watering bags. In addition, all plants should be thoroughly watered in at the time of planting (15-20 gallons per plant).
 - Compost or other organic amendments should be mixed into the back-fill soil to increase water-holding capacity where appropriate.
 - Planting hole depth for trees should be only as deep as measured from the trunk flare to the bottom of the root ball. Planting hole width should be a minimum of three times the diameter of the root ball. Root balls shall be mulched.
 - Container plants should be planted at the same depth as grown in the container.
 - No fertilization is necessary at planting time. In subsequent years, slow release fertilizers may be appropriate based on plant growth.
 - For all trees planted below elevation 177 refer to deciduous tree planting subgrade with slow infiltration on Architectural Plans.
 - All areas not otherwise developed within the limit of work and all areas disturbed by construction activities shall be loamed and seeded with drought tolerant seed mix if not noted to receive other treatment.
 - Notify LA in writing of any discrepancies between drawings and field conditions prior to and during work. All field adjustments to be approved by the LA prior to implementation.
 - Landscape Plan is Conceptual in nature. Final placement of plants to be approved by the LA and WS in the field.
 - No plant substitution will be permitted unless authorized by the LA or WS in writing.
 - Contractor shall verify quantities shown on plant list. Quantities shown on plans shall govern.



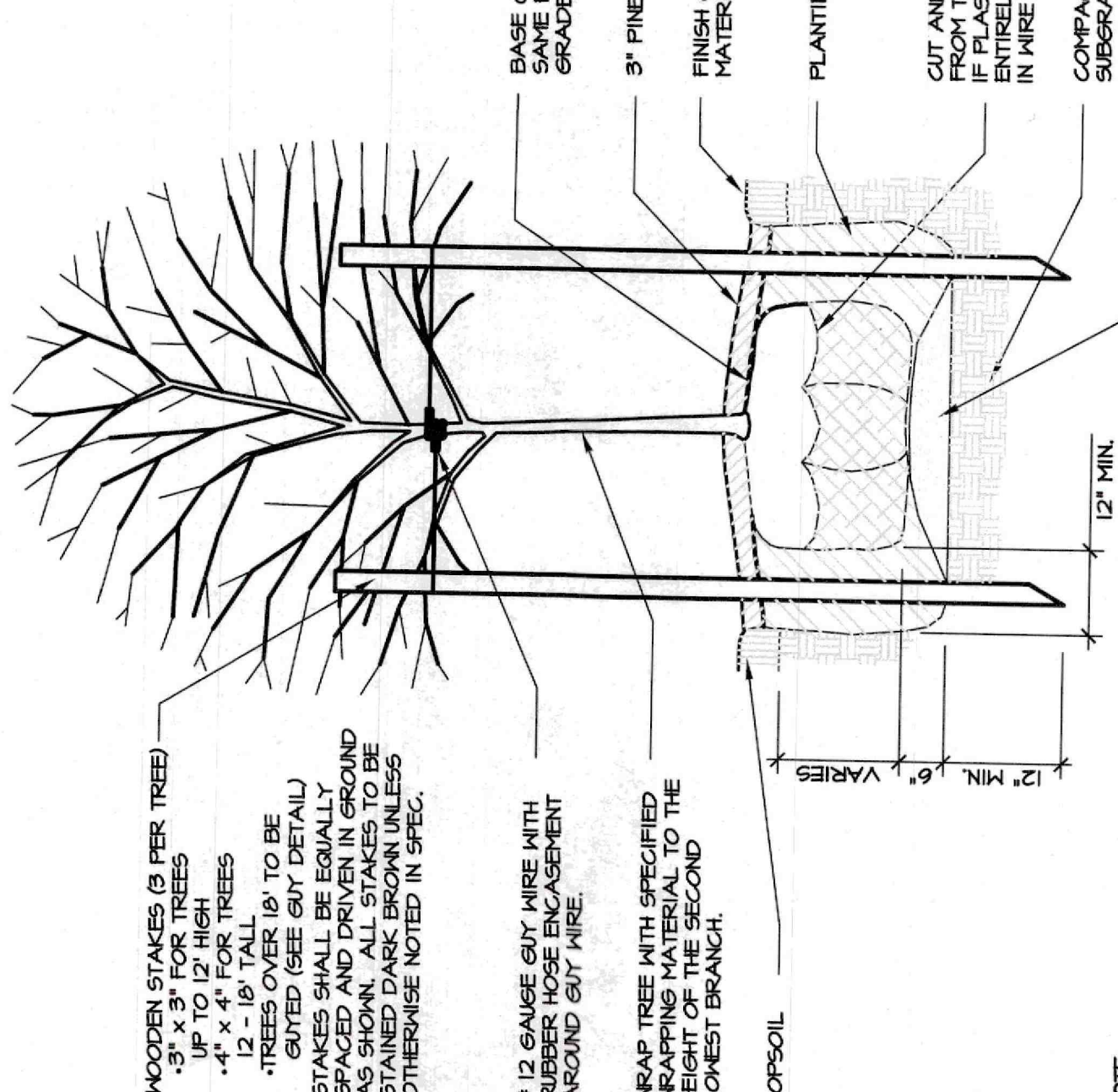
NOTE:
1. TOPSOIL SHALL BE A FRIABLE LOAM, TYPICAL OF CULTIVATED AREAS OF THE LOCALITY, CONTAINING AT LEAST TWO PERCENT OF DECADED ORGANICALS OF THE LOCALITY. TOPSOIL SHALL BE LOANED FROM LOCAL SOURCES. THE TEXTURE SHALL BE LOAM TO SANDY LOAM AS DEFINED BY USDA TEXTURAL SOIL CLASSIFICATION SYSTEM OR SOIL SCIENCE SOCIETY OF AMERICA OFFICIAL SOIL SCIENCE TERMS. THE CONTRACTOR SHALL PROVIDE THE WS WITH A MINIMUM 2-INCH LAYER OF STRATIFICATION AND NOT SUBMIT A SAMPLE, A LABORATORY GRADATION TEST, AND A WRITTEN CERTIFICATION FROM THE SUPPLIER CONFIRMING COMPLIANCE WITH THESE REQUIREMENTS AT LEAST FOUR WEEKS PRIOR TO DELIVERY OF TOPSOIL TO THE PROPERTY FOR REVIEW AND ACCEPTANCE.

TYPICAL GROUNDCOVER / PERENNIAL PLANTING
SCALE: 1" = 1'-0"



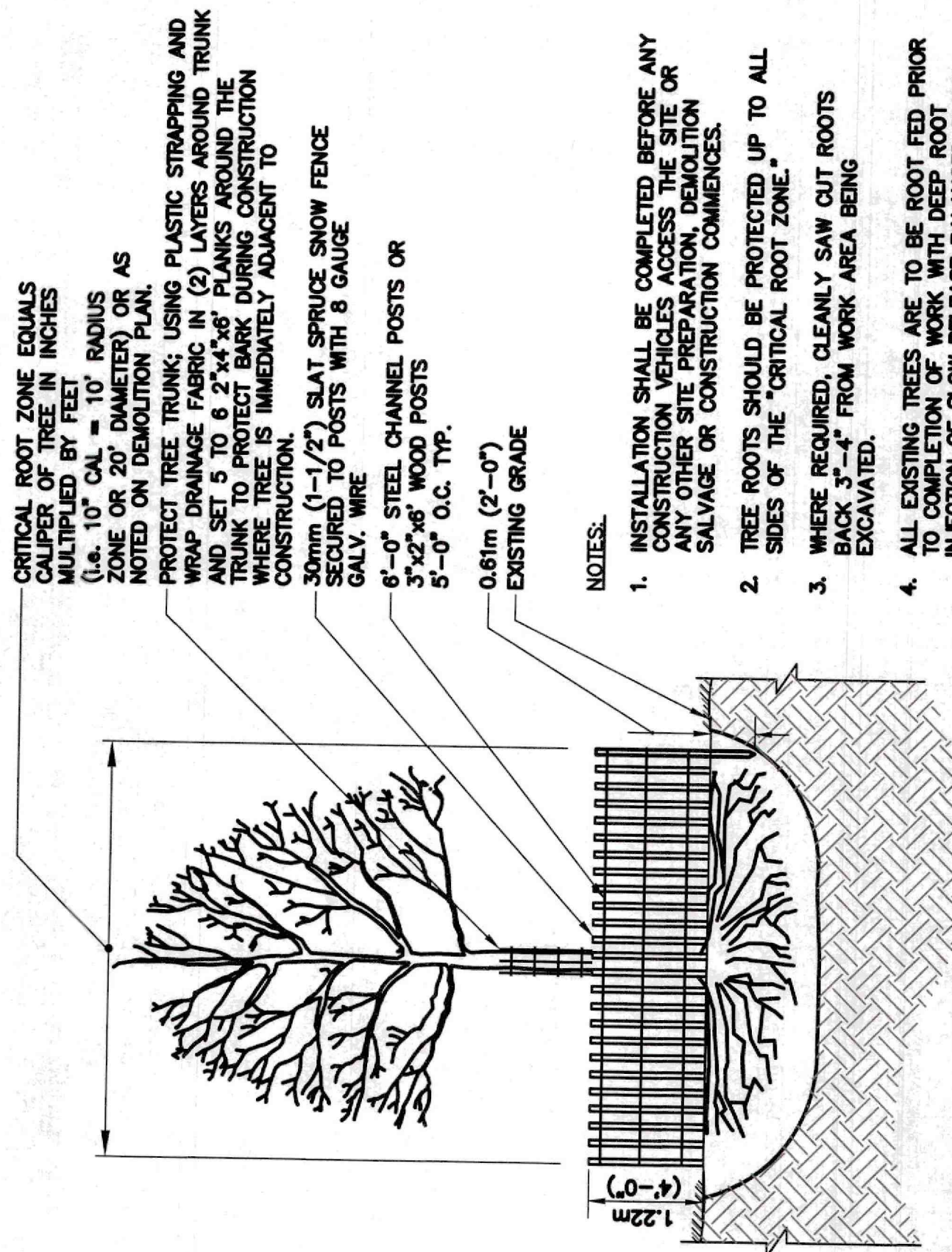
NOTE:
1. PLANTING SOIL MIX SHALL BE APPROVED LOAM TYPICAL OF CULTIVATED AREAS OF THE LOCALITY. TOPSOIL SHALL BE LOANED FROM LOCAL SOURCES. THE TEXTURE SHALL BE LOAM TO SANDY LOAM AS DEFINED BY USDA TEXTURAL SOIL CLASSIFICATION SYSTEM OR SOIL SCIENCE SOCIETY OF AMERICA OFFICIAL SOIL SCIENCE TERMS. THE CONTRACTOR SHALL PROVIDE THE WS WITH A MINIMUM 2-INCH LAYER OF STRATIFICATION AND NOT SUBMIT A SAMPLE, A LABORATORY GRADATION TEST, AND A WRITTEN CERTIFICATION FROM THE SUPPLIER CONFIRMING COMPLIANCE WITH THESE REQUIREMENTS AT LEAST FOUR WEEKS PRIOR TO DELIVERY OF TOPSOIL TO THE PROPERTY FOR REVIEW AND ACCEPTANCE.

TYPICAL SHRUB PLANTING
SCALE: 1/2" = 1'-0"



NOTE:
1. HEIGHT OF PLANT ABOVE EXCAVATION SHALL BE TREE HEIGHT x 0.5, DEPTH OF TREE STAKE BELOW GROUND SHALL BE TREE HEIGHT x 0.5.
2. PLANTING SOIL MIX SHALL BE APPROVED LOAM TYPICAL OF CULTIVATED AREAS OF THE LOCALITY. TOPSOIL SHALL BE LOANED FROM LOCAL SOURCES. THE TEXTURE SHALL BE LOAM TO SANDY LOAM AS DEFINED BY USDA TEXTURAL SOIL CLASSIFICATION SYSTEM OR SOIL SCIENCE SOCIETY OF AMERICA OFFICIAL SOIL SCIENCE TERMS. THE CONTRACTOR SHALL PROVIDE THE WS WITH A MINIMUM 2-INCH LAYER OF STRATIFICATION AND NOT SUBMIT A SAMPLE, A LABORATORY GRADATION TEST, AND A WRITTEN CERTIFICATION FROM THE SUPPLIER CONFIRMING COMPLIANCE WITH THESE REQUIREMENTS AT LEAST FOUR WEEKS PRIOR TO DELIVERY OF TOPSOIL TO THE PROPERTY FOR REVIEW AND ACCEPTANCE.

TYPICAL TREE PLANTING
SCALE: 1/2" = 1'-0"

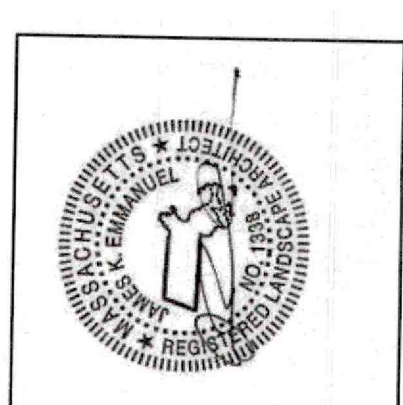


TREE PROTECTION
SCALE: 1/2" = 1'-0"

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MONTROSE SCHOOL
SITE IMPROVEMENTS
REVAMP CAMPUS PLAN
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LANDSCAPE DETAILS AND NOTES			
DATE	07/31/2024	AS NOTED	
SCALE	AS NOTED	MSDP-2401	
PROJECT	MSDP-2401		
REV #	DATE	BULLET #	

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