

CONDITIONS OF APPROVAL:

- PRIOR TO AND CONTINUING DURING ALL CONSTRUCTION ACTIVITIES:
- SIGNAGE MUST BE PROVIDED DIRECTING CONSTRUCTION VEHICLES TO UTILIZE THE NORTHERNMOST DRIVEWAY ENTRANCE.
 - CONSTRUCTION FENCING ALONG BROOKS STREET SHALL PROVIDE SCREEN FABRIC.
 - APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, INCLUDING HAY BALES, SILT FENCES, AND SILT SACS SHALL BE INSTALLED AND MAINTAINED DURING CONSTRUCTION SUBJECT TO THE OVERSIGHT AND DIRECTION OF THE COMMISSIONER OF INSPECTORIAL SERVICES.
 - ALL WORK SHALL CONFORM TO THE CITY OF WORCESTER'S ZONING ORDINANCE, PLANNING BOARD DECISION AND CONDITIONS OF APPROVAL, AND TO THE STANDARDS CONTAINED IN THE CITY OF WORCESTER, DEPARTMENT OF PUBLIC WORKS & PARKS, ENGINEERING DIVISION, CONSTRUCTION MANAGEMENT SECTION, STANDARD SPECIFICATIONS & DETAILS, MOST RECENT EDITION.
 - NOISE MITIGATION - ALL CONSTRUCTION SHALL TAKE PLACE DURING NORMAL WORKING HOURS MONDAY - FRIDAY BETWEEN 7:00 AM AND 7:00 PM. CONSTRUCTION ACTIVITIES SHALL COMPLY WITH ALL STATE AND MUNICIPAL NOISE REGULATIONS. EQUIPMENT SHALL BE WELL MAINTAINED AND HAVE FUNCTIONING MUFFLERS. ALL EQUIPMENT SHALL COMPLY WITH D.E.P.'S ANTI IDLING REGULATIONS TO PREVENT UNNECESSARY NOISE AND AIR POLLUTION WHILE NOT IN PRODUCTIVE USE.
 - DUST AND AIR QUALITY CONTROL - TO MITIGATE DUST ON THE WORKSITE, THE CONTRACTORS SHALL HAVE ON SITE WATER TRUCKS, MISTERS AND CHEMICAL TREATMENT SUCH AS CALCIUM CHLORIDE DURING EARTH MOVING ACTIVITIES. IN ADDITION TO THESE MEASURES EXCAVATED SOILS SHALL BE DIRECTLY TRANSFERRED TO COVERED TRUCKS, AND NOT STOCKPILED AS TO CONTRIBUTE TO DUST FROM THE WORK SITE.
 - FUELS, WASTE OIL, AND HAZARDOUS WASTES - ALL WORK SHALL BE CONDUCTED IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL REGULATIONS FOR THE MANAGEMENT OF FUELS, WASTE OILS AND HAZARDOUS MATERIALS. ALL HAZARDOUS MATERIALS SHALL BE TRANSPORTED, STORED, AND HANDLED IN COMPLIANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

BOHLER
 SITE CIVIL AND CONSULTING ENGINEERING
 PROJECT MANAGEMENT
 LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN
 PERMITTING SERVICES
 TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/08/2024	PER TECH REVIEW COMMENTS	SK	GD

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PROJECT No.: W211202
 DRAWN BY: EVD/CD/AP/VEH
 CHECKED BY: GD
 DATE: 05/10/2023
 CAD ID: W211202-DEMO-4A

PROPOSED SITE PLAN DOCUMENTS

FOR

CRITERION GROUP, LLC

WAREHOUSE DEVELOPMENT

135 BROOKS STREET
 CITY OF WORCESTER
 WORCESTER COUNTY
 MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900

www.BohlerEngineering.com

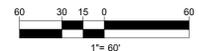
MAINTENANCE OF A CLEAR SIGHT LINE IS THE RESPONSIBILITY OF THE PROPERTY OWNER

THIS PLAN TO BE UTILIZED FOR DEMOLITION PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL NOTES

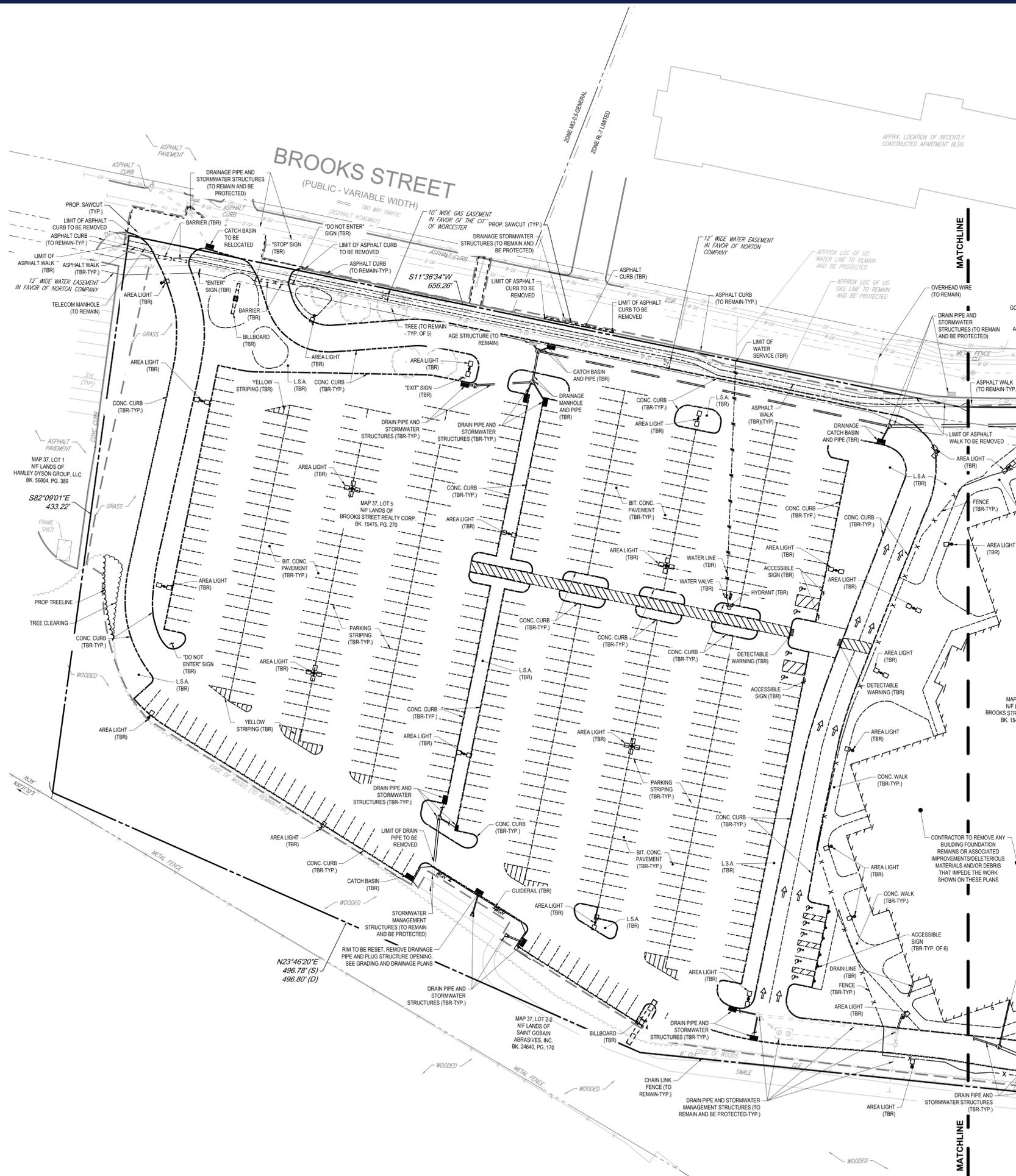
SHEET TITLE:
OVERALL DEMOLITION PLAN

SHEET NUMBER:
C-201

REVISION 1 - 03/08/2024



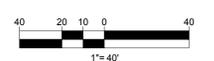
P:\21\W211202\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLAN\W211202-DEMO-4A-...LAYOUT: C-201-OVERALL DEMO



DRAINAGE STRUCTURES TO REMAIN WHERE EXISTING PIPES ARE TO BE REMOVED SHALL HAVE ASSOCIATED PENETRATIONS SEALED AND MADE WATER TIGHT.

REFER TO GENERAL NOTES SHEET FOR DEMOLITION NOTES

THIS PLAN TO BE UTILIZED FOR DEMOLITION/REMOVAL PURPOSES ONLY



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PROJECT No.: W211202
 DRAWN BY: EVD/CD/AP/VEH
 CHECKED BY: GD
 DATE: 05/10/2023
 CAD I.D.: W211202-DEMO-4A

PROPOSED SITE PLAN DOCUMENTS

FOR

CRITERION GROUP, LLC

WAREHOUSE DEVELOPMENT

135 BROOKS STREET
 CITY OF WORCESTER
 WORCESTER COUNTY
 MASSACHUSETTS

BOHLER

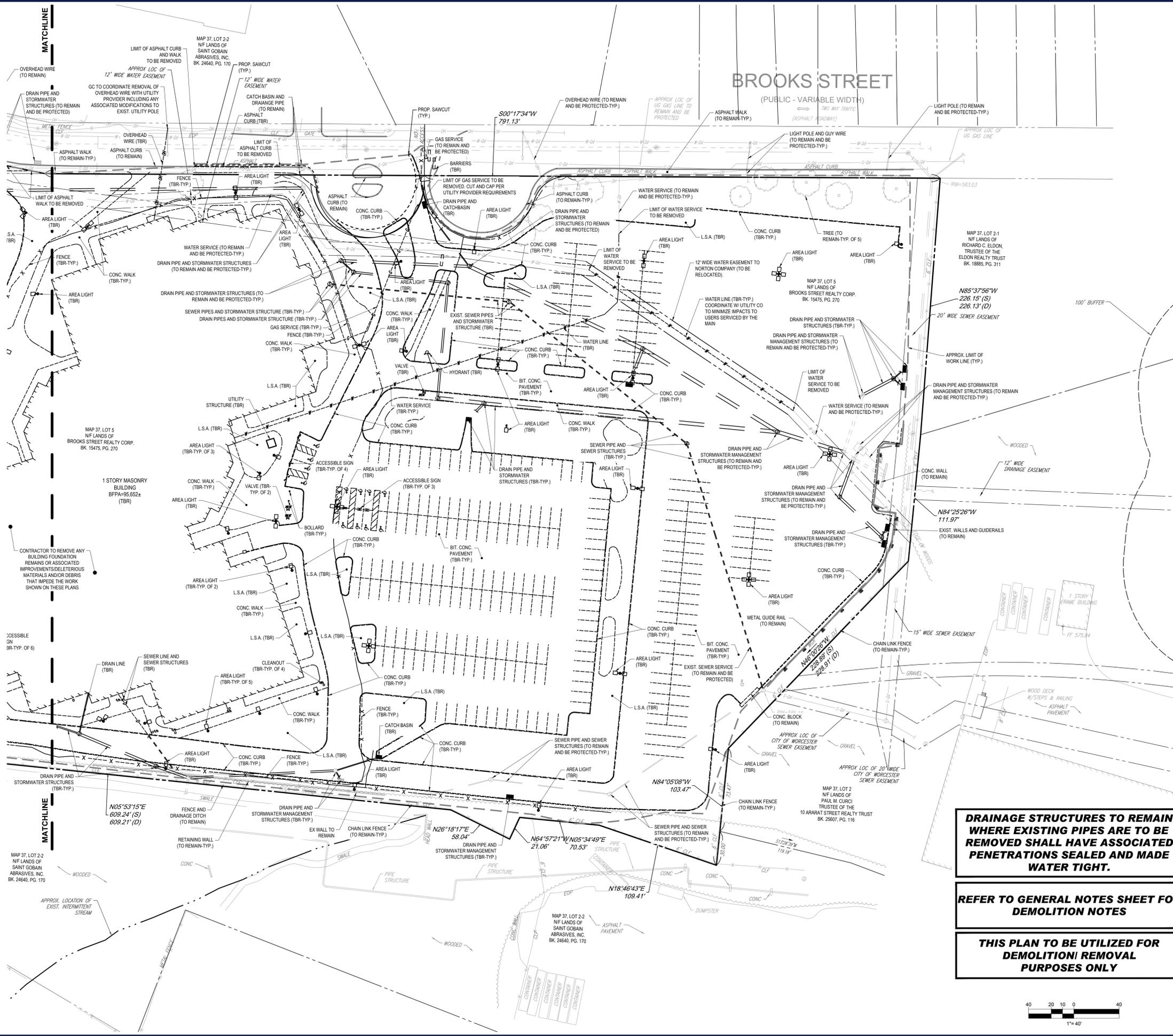
352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900
 www.BohlerEngineering.com

SHEET TITLE:
DEMOLITION PLAN A

SHEET NUMBER:
C-202

REVISION 1 - 03/08/2024

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BROOKS STREET
(PUBLIC - VARIABLE WIDTH)

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SUSTAINABLE DESIGN
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REVISIONS

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DRAWN BY: EVD/CD/AP/VEH
CHECKED BY: GD
DATE: 05/10/2023
CAD ID.: W211202-DEMO-4A

PROPOSED SITE PLAN DOCUMENTS

FOR

CRITERION GROUP, LLC

WAREHOUSE DEVELOPMENT

135 BROOKS STREET
CITY OF WORCESTER
WORCESTER COUNTY
MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
www.BohlerEngineering.com

Professional Engineer Seal for John A. Bohler, No. 41530, State of Massachusetts.

DRAINAGE STRUCTURES TO REMAIN WHERE EXISTING PIPES ARE TO BE REMOVED SHALL HAVE ASSOCIATED PENETRATIONS SEALED AND MADE WATER TIGHT.

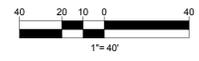
REFER TO GENERAL NOTES SHEET FOR DEMOLITION NOTES

THIS PLAN TO BE UTILIZED FOR DEMOLITION/REMOVAL PURPOSES ONLY

SHEET TITLE:
DEMOLITION PLAN B

SHEET NUMBER:
C-203

REVISION 1 - 03/08/2024

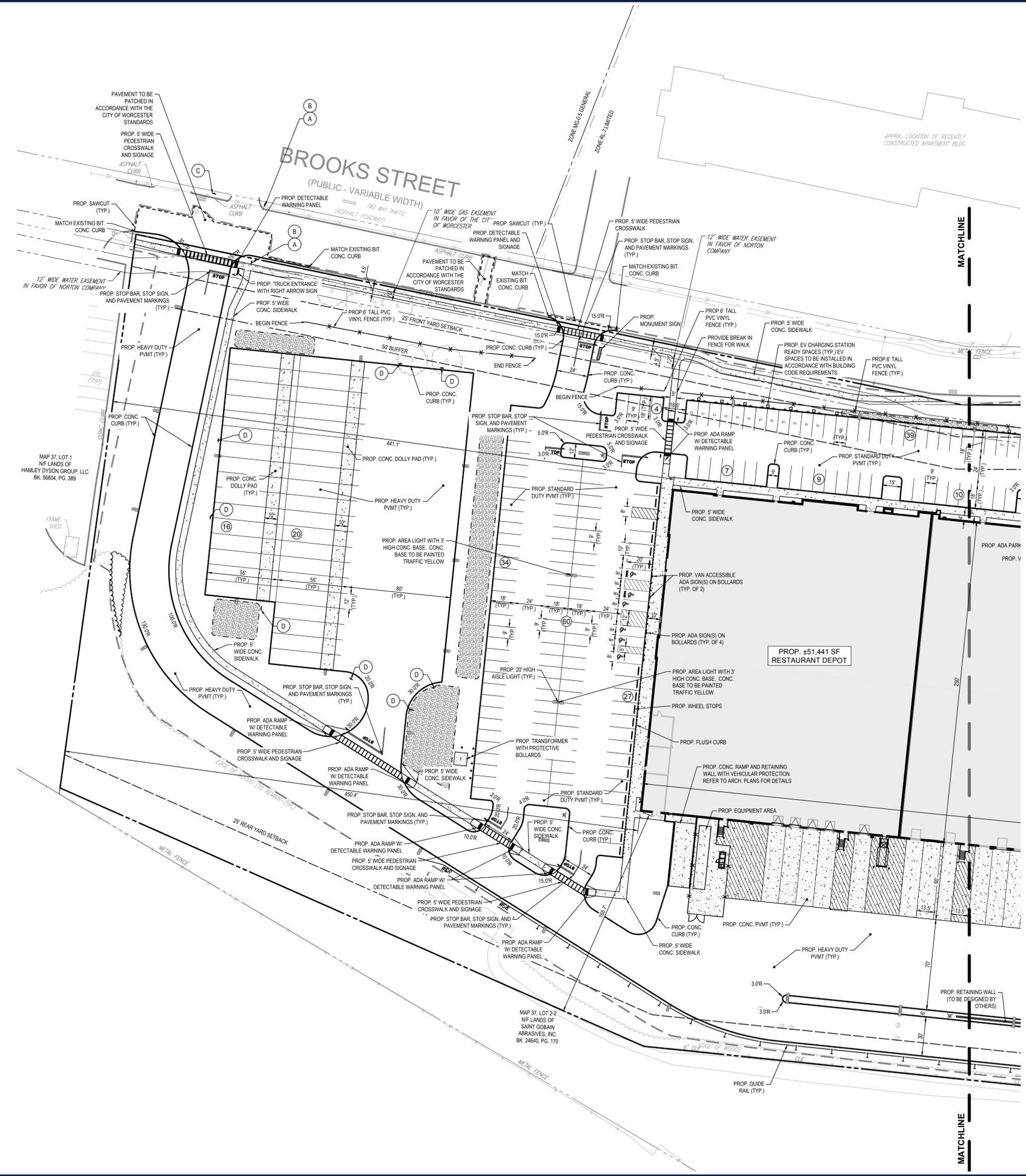


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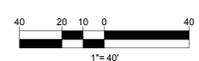
HATCH LEGEND

HATCH	DESCRIPTION
	DESIGNATED SNOW STORAGE AREA



PROPOSED FENCING SHALL BE NO GREATER THAN 6' IN HEIGHT UNLESS SETBACK IN ACCORDANCE WITH THE REQUIREMENTS OF THE ZONING ORDINANCE.

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL NOTES



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 SITE CIVIL AND CONSULTING ENGINEERING
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PROJECT No.: W21202
 DRAWN BY: EVD/CD/AP/VEH
 CHECKED BY: GD
 DATE: 05/10/2023
 CAD LD.: W21202-SPPD-4A

PROPOSED SITE PLAN DOCUMENTS

FOR

CRITERION GROUP, LLC

WAREHOUSE DEVELOPMENT

135 BROOKS STREET
 CITY OF WORCESTER
 WORCESTER COUNTY
 MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900

www.BohlerEngineering.com

SHEET TITLE:

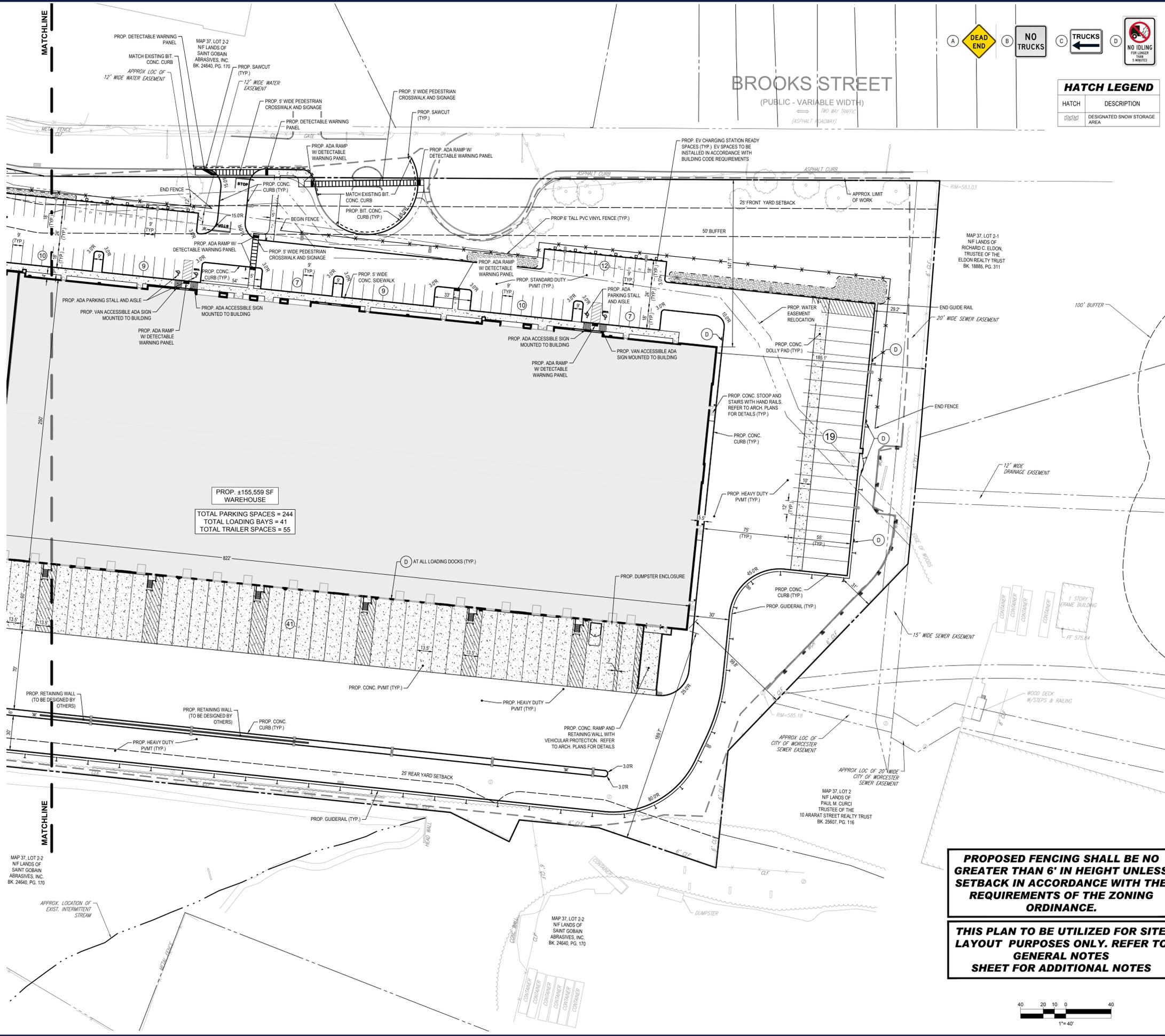
SITE LAYOUT PLAN A

SHEET NUMBER:

C-302

REVISION 1 - 03/08/2024

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BROOKS STREET
(PUBLIC - VARIABLE WIDTH)
(ASPHALT ROADWAY)

HATCH LEGEND

HATCH	DESCRIPTION
	DESIGNATED SNOW STORAGE AREA

A DEAD END
 B NO TRUCKS
 C TRUCKS
 D NO IDLING FOR LONGER THAN 5 MINUTES

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PROJECT No.: W211202
DRAWN BY: EVD/CD/AP/VEH
CHECKED BY: GD
DATE: 05/10/2023
CAD ID: W211202-SPPD-4A

PROPOSED SITE PLAN DOCUMENTS

FOR

CRITERION GROUP, LLC

WAREHOUSE DEVELOPMENT

135 BROOKS STREET
CITY OF WORCESTER
WORCESTER COUNTY
MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
www.BohlerEngineering.com

Professional Engineer Seal for John A. Bohler, No. 41530, State of Massachusetts.

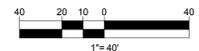
PROPOSED FENCING SHALL BE NO GREATER THAN 6' IN HEIGHT UNLESS SETBACK IN ACCORDANCE WITH THE REQUIREMENTS OF THE ZONING ORDINANCE.

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL NOTES

SHEET TITLE:
SITE LAYOUT PLAN B

SHEET NUMBER:
C-303

REVISION 1 - 03/08/2024



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SHEET A

BROOKS STREET
(PUBLIC - VARIABLE WIDTH)
← 100' BAY TRAFFIC
(ASPHALT ROADWAY)

BROOKS STREET
(PUBLIC - VARIABLE WIDTH)
← 100' BAY TRAFFIC
(ASPHALT ROADWAY)

PROP. ±51,441 SF
RESTAURANT
DEPOT

PROP. ±155,559 SF
WAREHOUSE

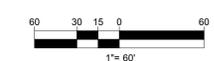
100' BUFFER

APPROX. LOCATION OF
WETLAND EDGE

APPROX. LOCATION OF
EXIST. INTERMITTENT
STREAM

SHEET B

**THIS PLAN TO BE UTILIZED FOR SITE
GRADING PURPOSES ONLY. REFER TO
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FOR ADDITIONAL GRADING & UTILITY
NOTES**



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PROJECT No.: W211202
DRAWN BY: EVD/CD/AP/VEH
CHECKED BY: GD
DATE: 05/10/2023
CAD ID: W211202-GRAD-4A

**PROPOSED SITE
PLAN DOCUMENTS**

FOR

**CRITERION
GROUP, LLC**

WAREHOUSE DEVELOPMENT

135 BROOKS STREET
CITY OF WORCESTER
WORCESTER COUNTY
MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900

www.BohlerEngineering.com

SHEET TITLE:

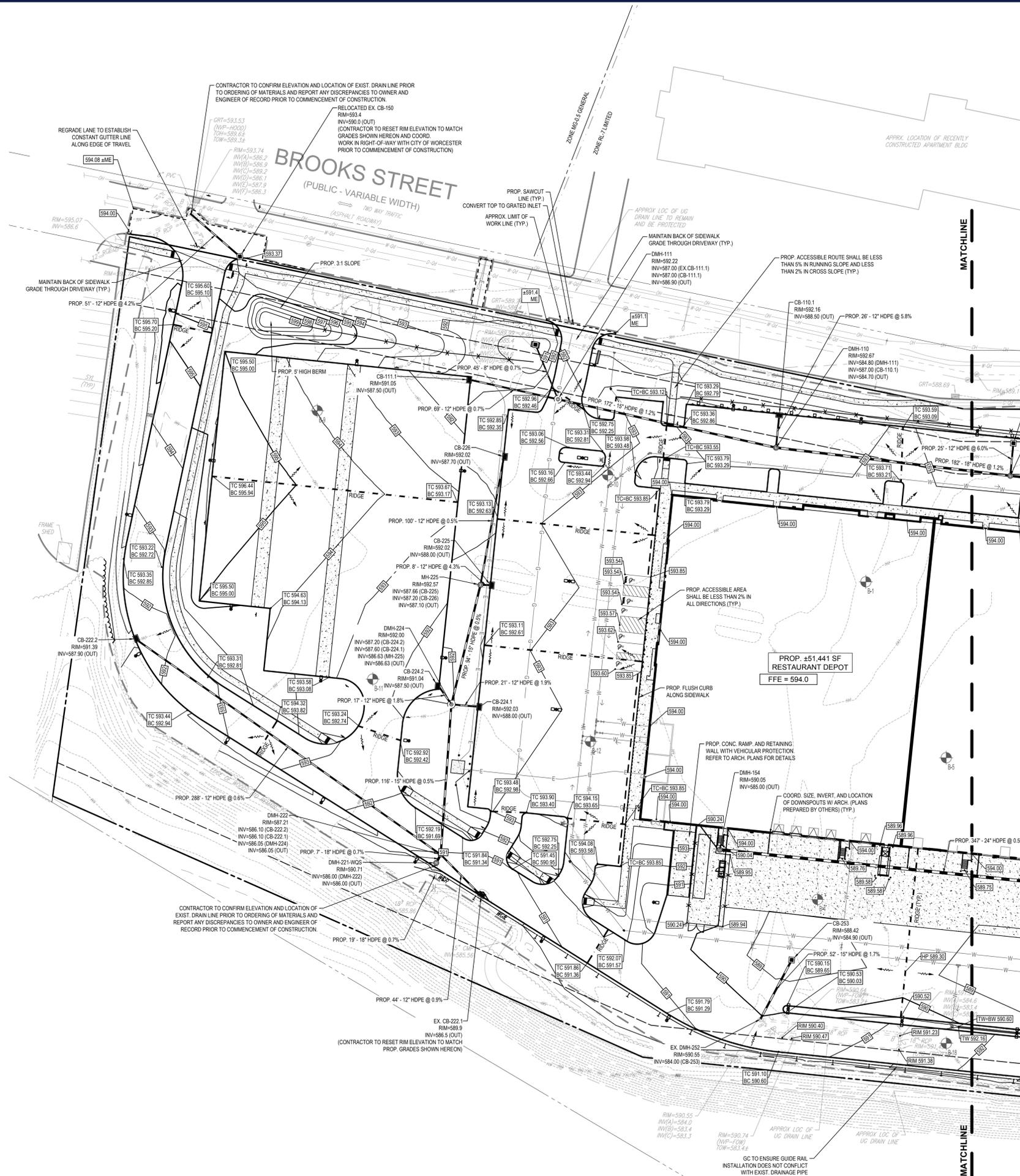
**OVERALL
GRADING &
DRAINAGE PLAN**

SHEET NUMBER:

C-401

REVISION 1 - 03/08/2024

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PROJECT No.: W211202
 DRAWN BY: EVD/CD/AP/VEH
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 CAD I.D.: W211202-GRAD-4A

PROPOSED SITE PLAN DOCUMENTS

FOR

CRITERION GROUP, LLC

WAREHOUSE DEVELOPMENT

135 BROOKS STREET
 CITY OF WORCESTER
 WORCESTER COUNTY
 MASSACHUSETTS

BOHLER

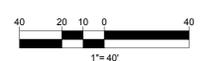
352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900

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Professional Engineer Seal for John A. Bohler, No. 41530, State of Massachusetts.

DR-18 PVC CONNECTIONS REQUIRED AT CATCH BASINS

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL GRADING & UTILITY NOTES

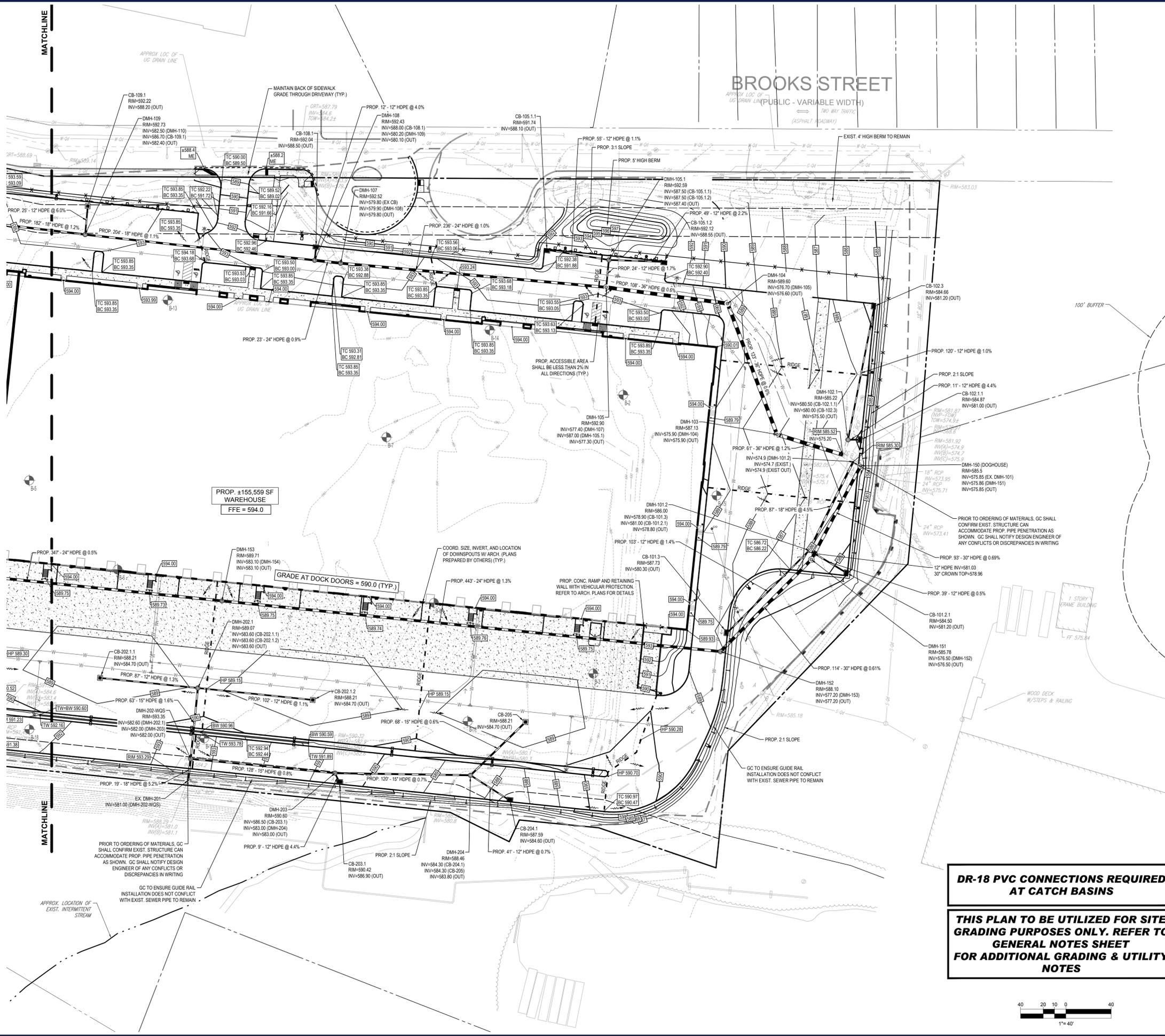


SHEET TITLE:
GRADING AND DRAINAGE PLAN A

SHEET NUMBER:
C-402

REVISION 1 - 03/08/2024

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BROOKS STREET
APPROX LOC OF
UG DRAIN LINE (PUBLIC - VARIABLE WIDTH)
TWO WAY TRAFFIC
(ASPHALT ROADWAY)

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FOR

CRITERION GROUP, LLC

WAREHOUSE DEVELOPMENT

135 BROOKS STREET
CITY OF WORCESTER
WORCESTER COUNTY
MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
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Professional Engineer Seal for John A. Bohlert, No. 41530, State of Massachusetts.

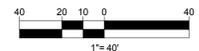
DR-18 PVC CONNECTIONS REQUIRED AT CATCH BASINS

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SHEET TITLE:
GRADING AND DRAINAGE PLAN B

SHEET NUMBER:
C-403

REVISION 1 - 03/08/2024



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SHEET A

BROOKS STREET
(PUBLIC - VARIABLE WIDTH)
(ASPHALT ROADWAY)

BROOKS STREET
(PUBLIC - VARIABLE WIDTH)
(ASPHALT ROADWAY)

PROP. ±51,441 SF
RESTAURANT
DEPOT

PROP. ±155,559 SF
WAREHOUSE

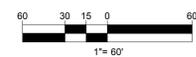
100' BUFFER

APPROX. LOCATION OF
WETLAND EDGE

APPROX. LOCATION OF
EXIST. INTERMITTENT
STREAM

SHEET B

**THIS PLAN TO BE UTILIZED FOR
UTILITIES PURPOSES ONLY. REFER TO
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NOTES**



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SITE CIVIL AND CONSULTING ENGINEERING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
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PROJECT No.: W211202
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 CHECKED BY: GD
 DATE: 05/10/2023
 CAD ID: W211202-UTIL-4A

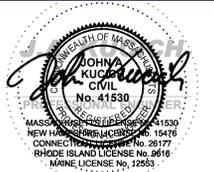
**PROPOSED SITE
PLAN DOCUMENTS**

FOR
**CRITERION
GROUP, LLC**

WAREHOUSE DEVELOPMENT
135 BROOKS STREET
CITY OF WORCESTER
WORCESTER COUNTY
MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
www.BohlerEngineering.com

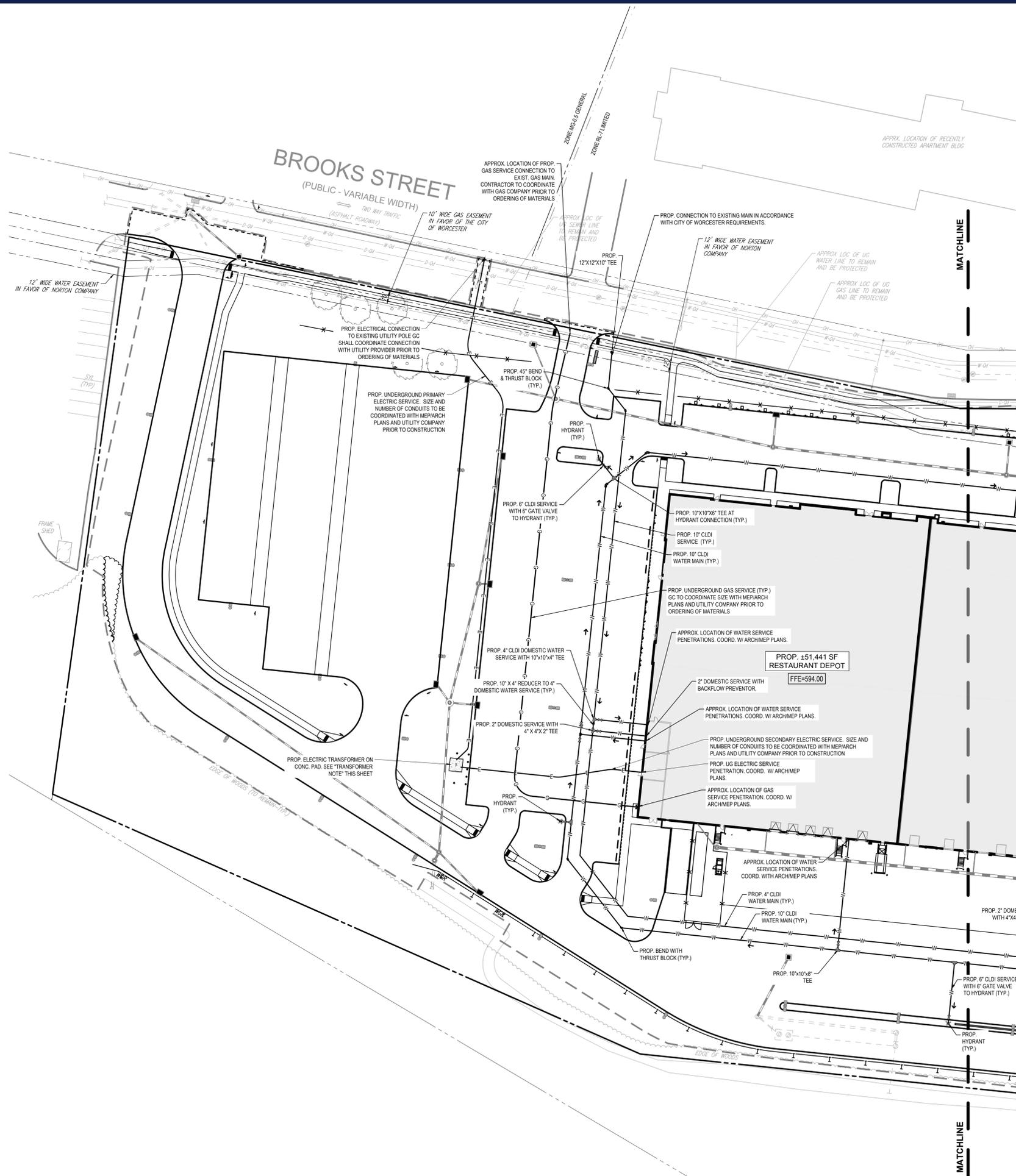


SHEET TITLE:

**OVERALL
UTILITY PLAN**

SHEET NUMBER:
C-501

REVISION 1 - 03/08/2024



REVISIONS

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PROPOSED SITE PLAN DOCUMENTS

FOR

CRITERION GROUP, LLC

WAREHOUSE DEVELOPMENT

135 BROOKS STREET
 CITY OF WORCESTER
 WORCESTER COUNTY
 MASSACHUSETTS

TRANSFORMER NOTE:

GC SHALL PROVIDE ALL APPURTENANCES IN ACCORDANCE WITH UTILITY COMPANY SPECIFICATIONS AND CARRY SAME IN BASE BID. APPURTENANCES SHALL INCLUDE, BUT NOT BE LIMITED TO, THE CONCRETE PAD, SECONDARY SPILL CONTAINMENT AREAS (IF REQUIRED), BOLLARD / VEHICULAR PROTECTION, AND OTHER ITEMS AS MAY BE REQUIRED BY THE UTILITY PROVIDER FOR INSTALLATION OF THE TRANSFORMER. GC SHALL COORDINATE ALL ASPECTS OF INSTALLATION WITH UTILITY PROVIDER PRIOR TO ORDERING OF MATERIALS AND NOTIFY DESIGN ENGINEER OF ANY CONFLICTS IN WRITING.

THIS PLAN TO BE UTILIZED FOR UTILITIES PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL GRADING & UTILITY NOTES

BOHLER

352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900

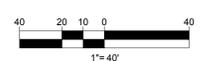
www.BohlerEngineering.com

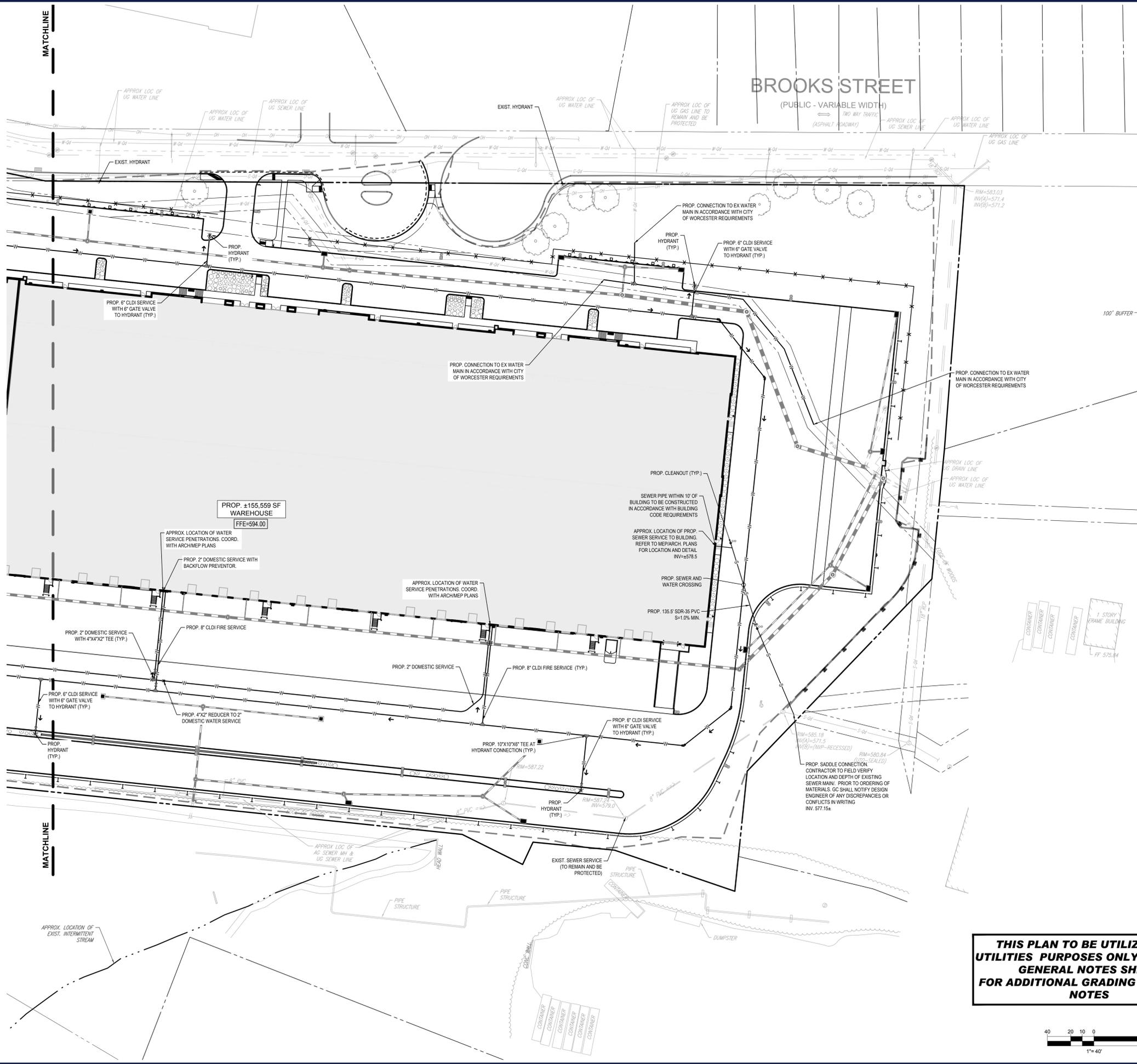


SHEET TITLE:
UTILITY PLAN A

SHEET NUMBER:
C-502

REVISION 1 - 03/08/2024





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BOHLER
 SITE CIVIL AND CONSULTING ENGINEERING
 PROGRAM MANAGEMENT
 LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN
 PERMITTING SERVICES
 TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/08/2024	PER TECH REVIEW COMMENTS	SK	GD

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PROJECT No.: W211202
 DRAWN BY: EVD/CD/AP/VEH
 CHECKED BY: GD
 DATE: 05/10/2023
 CAD ID: W211202-UTIL-4A

PROPOSED SITE PLAN DOCUMENTS

FOR

CRITERION GROUP, LLC

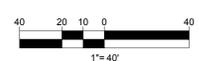
WAREHOUSE DEVELOPMENT
 135 BROOKS STREET
 CITY OF WORCESTER
 WORCESTER COUNTY
 MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900
www.BohlerEngineering.com



THIS PLAN TO BE UTILIZED FOR UTILITIES PURPOSES ONLY. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL GRADING & UTILITY NOTES



SHEET TITLE:
UTILITY PLAN B

SHEET NUMBER:
C-503

REVISION 1 - 03/08/2024



**CONTRACTOR SHALL SUBMIT
CONSTRUCTION TRAFFIC SIGNAGE
PLAN FOR APPROVAL PRIOR TO
CONSTRUCTION**

**THIS PLAN TO BE UTILIZED FOR SITE
SOIL AND EROSION CONTROL
PURPOSES ONLY**

**REFER TO SOIL EROSION CONTROL
NOTES & DETAIL SHEET FOR EROSION
NOTES AND DETAILS**

**CONTRACTOR SHALL LIMIT
DISTURBANCE AREAS TO THE
MAXIMUM EXTENT PRACTICAL AND
STABILIZE ANY INACTIVE AREAS.
PROVIDE SEDIMENT TRAPS WITH
STABLE DISCHARGE MEASURES WHEN
CONTRIBUTING DISTURBANCE AREAS
EXCEED 1 ACRE**

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PROJECT No.: W211202
DRAWN BY: EVD/CD/AP/VEH
CHECKED BY: GD
DATE: 05/10/2023
CAD ID: W211202-SESS-4A

**PROPOSED SITE
PLAN DOCUMENTS**

FOR

**CRITERION
GROUP, LLC**

WAREHOUSE DEVELOPMENT

135 BROOKS STREET
CITY OF WORCESTER
WORCESTER COUNTY
MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900

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SHEET TITLE:
**OVERALL SOIL
EROSION &
SEDIMENT
CONTROL PLAN**

SHEET NUMBER:
C-601

REVISION 1 - 03/08/2024

SHEET A

SHEET B

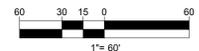
BROOKS STREET
(PUBLIC - VARIABLE WIDTH)
NO WAY TRAFFIC
(ASPHALT ROADWAY)

BROOKS STREET
(PUBLIC - VARIABLE WIDTH)
NO WAY TRAFFIC
(ASPHALT ROADWAY)

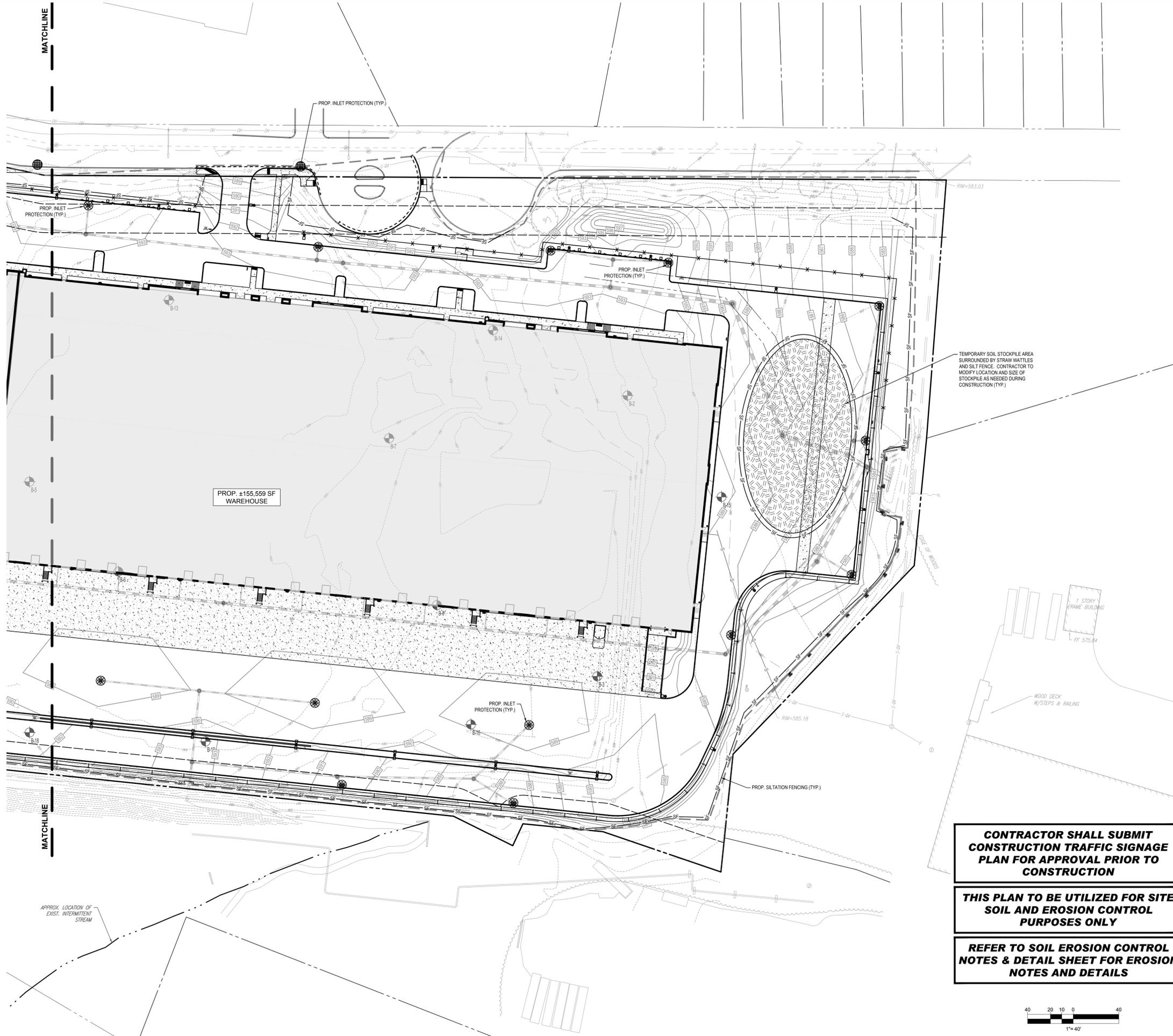
PROP. ±51,441 SF
RESTAURANT
DEPOT

PROP. ±155,559 SF
WAREHOUSE

LOD = ±15 ACRES



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PROPOSED SITE PLAN DOCUMENTS

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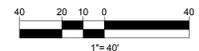
CONTRACTOR SHALL SUBMIT CONSTRUCTION TRAFFIC SIGNAGE PLAN FOR APPROVAL PRIOR TO CONSTRUCTION

THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

REFER TO SOIL EROSION CONTROL NOTES & DETAIL SHEET FOR EROSION NOTES AND DETAILS

SHEET TITLE:
SOIL EROSION & SEDIMENT CONTROL PLAN B

SHEET NUMBER:
C-603



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EROSION AND SEDIMENT CONTROL NOTES

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND EROSION CONTROL MANUAL.
- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. AT A MINIMUM, AREAS SHALL BE PERMANENTLY STABILIZED ACCORDING TO THE CURRENT EDITION OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), OR IN THE ABSENCE OF A SWPPP, THEY SHALL BE PERMANENTLY STABILIZED WITHIN 14 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 FEET OF A STREAM OR POND, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS).
- SEDIMENT BARRIERS (SILT FENCE, STRAW BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 8%.
- INSTALL SILTATION BARRIER AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILTATION BARRIER DETAILS FOR PROPER INSTALLATION. SILTATION BARRIER WILL REMAIN IN PLACE PER NOTE #5.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED. FOR SEDIMENT CONTROL DEVICES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE DEVICES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1) UNLESS OTHERWISE INDICATED ON THE PLANS. SLOPE PROTECTION FOR SLOPES GREATER THAN 2:1 SHALL BE DESIGNED BY A GEOTECHNICAL ENGINEER.
- IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
- TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL STANDARDS.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
 - SIX INCHES, OR DEPTH SPECIFIED ON THE LANDSCAPE PLAN, OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
 - APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 LB PER ACRE OR 18.4 LB PER 1,000 SF USING 10-20-20 OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (188 LB PER 1,000 SF).
 - FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEED TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUEGRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 1.03 LBS PER 1,000 SF LAWN. QUALITY SOIL MAY BE SUBSTITUTED FOR SEED WHERE SLOPES DO NOT EXCEED 2:1. SOIL ON SLOPES STEEPER THAN 3:1 SHOULD BE PEGGED.
 - STRAW MULCH AT THE RATE OF 70-90 LBS PER 1,000 SF. A HYDRO-APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER WILL BE USED ON STRAW MULCH FOR WIND CONTROL.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS 70% STABILIZED. FOR EROSION CONTROL MEASURES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE MEASURES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
- WETLANDS WILL BE PROTECTED WITH BARRIERS CONSISTING OF STRAW BALES, COMPOST TUBES, SILT FENCE OR A COMBINATION THEREOF.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED.

LOCATION PROTECTED AREA	MULCH STRAW	MULCH RATE (1000 SF)
WINDY AREA	SHREDDED OR CHOPPED CORNSTALKS STRAW (ANCHORED)	185-275 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES GREATER THAN 3:1	JUTE MESH OR EXCELSIOR MAT	AS REQUIRED
GREATER THAN 3:1	(REFER TO GEOTECHNICAL REPORT FOR FINAL DESIGN REQUIREMENT)	

* A HYDRO-APPLICATION OF WOOD OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER SHALL BE USED TO ADDITIONAL WIND CONTROL.

* MULCH ANCHORING: ANCHOR MULCH WITH PEG AND TWINE (1 SQ. YDBLOCK); MULCH NETTING (AS PER MANUFACTURER); WOOD CELLULOSE FIBER (750 LBS/ACRE); CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS); USE OF A SERRATED STRAIGHT DISK, WETTING FOR SMALL AREAS; AND ROAD DITCHES MAY BE PERMITTED.

- PROPOSED LOCATIONS OF SURFACE STORMWATER MANAGEMENT BASINS CAN BE UTILIZED AS A TEMPORARY SEDIMENT TRAP DURING CONSTRUCTION. SEDIMENT TRAPS SHALL BE SIZED AND CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
 - TEMPORARY SEDIMENT TRAPS SHALL BE SIZED PER THE CURRENT EDITION OF THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" AND PROVIDE A MINIMUM OF 1,800 CU PER ACRE OF TRIBUTARY AREA WITH A MAXIMUM TRIBUTARY AREA OF 5 ACRES. MAINTAIN A 2:1 LENGTH TO WIDTH RATIO, AND NOT EXCEED 5 FT IN HEIGHT. UPON SITE STABILIZATION, ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE TEMPORARY SEDIMENT TRAP EXCAVATED TO 1 FOOT BELOW THE TRAP. THE AREA SHALL THEN BE SCARIFIED TO PREVENT COMPACTION AND PROMOTE INFILTRATION, AND GRADED AND STABILIZED IN ACCORDANCE WITH THE GRADING AND LANDSCAPE PLANS.
- STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF.
- EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.
- THE CONTRACTOR MUST PERFORM DEWATERING (IF REQUIRED), IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR THE COSTS ASSOCIATED WITH ANY AND ALL NECESSARY DISCHARGE PERMITS ASSOCIATED WITH SAME.
- THE CONTRACTOR MUST LOCATE CONSTRUCTION WASTE MATERIAL STORAGE AREAS TO MINIMIZE EXPOSURE TO STORMWATER. THE CONTRACTOR MUST IMMEDIATELY PLACE CONSTRUCTION WASTE IN ON-SITE STORAGE CONTAINERS UNTIL THAT CONSTRUCTION WASTE IS READY FOR OFF-SITE DISPOSAL. THE CONTRACTOR MUST MAINTAIN SPILL PREVENTION AND RESPONSE EQUIPMENT AND MAKE SAME CONTINUOUSLY AVAILABLE FOR USE BY THE CONTRACTOR'S EMPLOYEES WHO MUST BE PROPERLY TRAINED IN THE APPLICATION OF SPILL PREVENTION AND RESPONSE PROCEDURES.

- EROSION CONTROL NOTES DURING WINTER CONSTRUCTION
 - WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
 - WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT THE AMOUNT OF AREA OPEN AT ONE TIME IS MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE AND IN CONFORMANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN SUCH THAT ADEQUATE PROVISIONS ARE EMPLOYED TO CONTROL STORMWATER RUNOFF.
 - CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
 - AN AREA SHALL BE CONSIDERED TO HAVE BEEN TEMPORARILY STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDING, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
 - FOR AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR A PERIOD EXCEEDING 14 DAYS BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH, LOAM OR SEED WILL NOT BE REQUIRED. THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDING. IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDING AT A RATE OF 200-300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED AS APPLICABLE. SLOPES SHALL NOT BE LEFT UNSTABILIZED OVER THE WINTER OR IN AREAS WHERE WOOD HAS CEASED FOR MORE THAN 14 DAYS UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF SEDIMENT BARRIERS OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.

- MULCHING REQUIREMENTS:
 - BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
 - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPE EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
 - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.

- ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE STORMWATER PREVENTION PLAN.
- DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

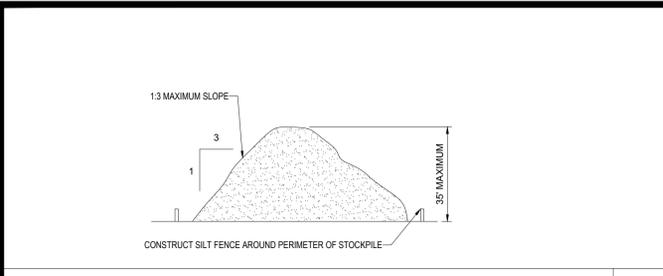
- IN LOCAL SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
- FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION.

CONCRETE WASTE MANAGEMENT AREA

N.T.S.

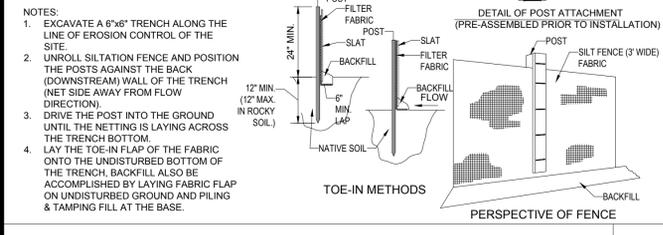
GENERAL EROSION AND SEDIMENT CONTROL NOTES

- THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
- EROSION CONTROL MEASURES MUST CONFORM TO THE STATE, LOCAL, AND FEDERAL GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL UNLESS OTHERWISE NOTED, OR UNLESS ENGINEER CLEARLY AND SPECIFICALLY, IN WRITING, DIRECTS OTHERWISE. INSTALLATION OF EROSION CONTROL, CLEARING, AND SITE WORK MUST BE PERFORMED EXACTLY AS INDICATED IN THE EROSION CONTROL CONSTRUCTION NOTES.
- THE DISTURBED LAND AREA OF THIS SITE IS APPROXIMATELY 115 ACRES.
- THE FOLLOWING EROSION CONTROL MEASURES ARE PROPOSED FOR THIS SITE:
 - STABILIZED CONSTRUCTION ENTRANCE/EXIT - A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT IS TO BE INSTALLED AT THE DESIGNATED LOCATION SHOWN ON THE PLAN. THIS AREA MUST BE GRADED SO THAT RUNOFF WATER WILL BE RETAINED ON-SITE. SEDIMENT FENCE - INSTALL SILT FENCE(S) AND/OR SILT SOCK AROUND ALL OF THE DOWNSLOPE PERIMETERS OF THE SITE, TEMPORARY FILL AND SOIL STOCKPILES.
 - INSTALL FILTER FABRIC DROP INLET PROTECTION AROUND EACH DRAINAGE INLET AS DRAINAGE STRUCTURES ARE INSTALLED TO REDUCE THE QUANTITY OF SEDIMENT. INSTALL TEMPORARY INLET PROTECTION ON INLETS DOWNSLOPE FROM DISTURBANCE, WHICH MAY BE BEYOND THE LIMITS OF DISTURBED AREA.
- INSTALLATION OF EROSION CONTROL DEVICES MUST BE IN ACCORDANCE WITH ALL OF THE MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR MUST INSPECT EROSION CONTROL MEASURES WEEKLY. THE CONTRACTOR MUST REMOVE ANY SILT DEPOSITS GREATER THAN 6" OR HALF THE HEIGHT OF THE EROSION CONTROL BARRIER'S HEIGHT COLLECTED ON THE FILTER FABRIC AND/OR SILT SOCK BARRIERS AND EXCAVATE AND REMOVE ANY SILT FROM DROP INLET PROTECTION.
- THE CONTRACTOR MUST APPLY TEMPORARY SEED AND MULCH TO ALL DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINISHED GRADE AND VEGETATED WITHIN 7 DAYS. WHEN AREAS ARE DISTURBED AFTER THE GROWING SEASON, THE CONTRACTOR MUST STABILIZE SAME WITH GEOTEXTILE FABRIC AND MAINTAIN SAME IN STRICT ACCORDANCE WITH BEST MANAGEMENT PRACTICES.
- THE CONTRACTOR MUST INSTALL ADDITIONAL EROSION CONTROL MEASURES IF ENGINEER SO REQUIRES, TO PREVENT ANY, INCLUDING THE INCIDENTAL, DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE.
- THE CONTRACTOR MUST BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL MEASURES ON THE SITE UNTIL PERMANENT PAVING AND TURFLANDSCAPING IS ESTABLISHED. THE COSTS OF INSTALLING AND MAINTAINING THE EROSION CONTROL MEASURES MUST BE INCLUDED IN THE BID PRICE FOR THE SITE WORK AND THE CONTRACTOR IS RESPONSIBLE FOR ALL SUCH COSTS.
- THE CONTRACTOR MUST CONTINUE TO MAINTAIN ALL EROSION CONTROL MEASURES UNTIL THE COMPLETION OF CONSTRUCTION AND THE ESTABLISHMENT OF VEGETATION.
- THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORARY EROSION CONTROL AND SEDIMENTATION CONTROL FACILITIES. MEASURES AND STRUCTURES, ADDITIONAL FACILITIES, MEASURES AND STRUCTURES MUST BE INSTALLED WHERE NECESSARY TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AND/OR TO PREVENT ANY, INCLUDING THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE.
- THE CONTRACTOR MUST PROTECT ALL EXISTING TREES AND SHRUBS. THE CONTRACTOR MUST REFER TO THE LANDSCAPE AND/OR DEMOLITION PLAN(S) FOR TREE PROTECTION, FENCE LOCATIONS AND DETAILS.
- THE CONTRACTOR MUST REFER TO GRADING PLANS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR MUST CLEAN EXISTING AND PROPOSED DRAINAGE STRUCTURES AND INTERCONNECTING PIPES ON OR OFF-SITE AS THE JURISDICTIONAL AGENCY REQUIRES, BOTH AT THE TIME OF SITE STABILIZATION AND AT END OF PROJECT.
- SOIL EROSION CONTROL MEASURES MUST BE ADJUSTED OR RELOCATED BY THE CONTRACTOR AS IDENTIFIED DURING SITE OBSERVATION IN ORDER TO MAINTAIN THE COMPLETE EFFECTIVENESS OF ALL CONTROL MEASURES.
- THE CONTRACTOR MUST IDENTIFY, ON THE PLAN, THE LOCATION OF WASTE CONTAINERS, FUEL STORAGE TANKS, CONCRETE WASHOUT AREAS AND ANY OTHER LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED.



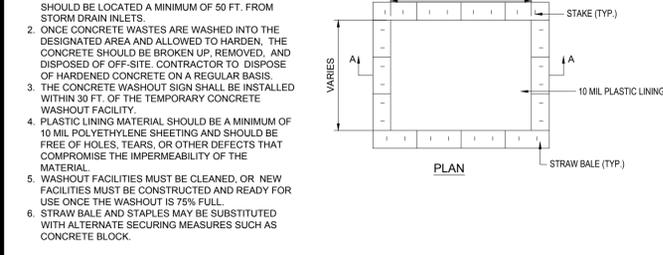
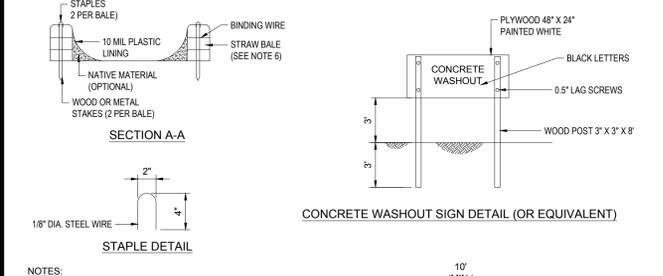
TEMPORARY STOCKPILE

N.T.S.



TYP. SILTATION FENCE

N.T.S.



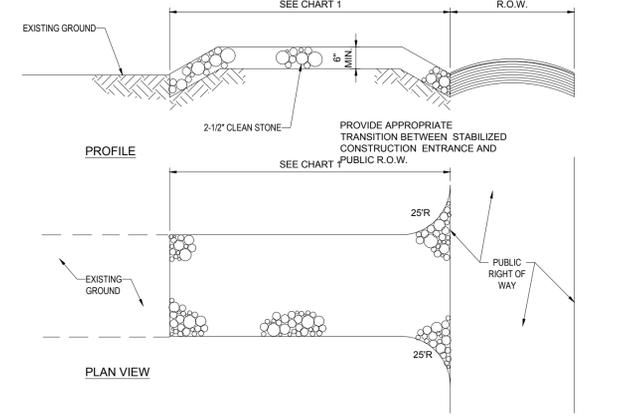
EROSION CONTROL BLANKET 2:1 SLOPES (SLOPE INSTALLATION)

N.T.S.

- THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:
- INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN)
 - INSTALLATION OF EROSION CONTROL BARRIER (STRAW BALES AND SILT FENCE) (AS SHOWN)
 - INSTALLATION OF INLET PROTECTION IN STREET (AS SHOWN)
 - DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN)
 - DEMOLITION OF EXISTING SITE PAVEMENT AND AMENITIES (SEE DEMOLITION PLAN)
 - CLEARING AND GRUBBING
 - INSTALLATION OF TEMPORARY SWALES AND SEDIMENT BASINS (IF APPLICABLE)
 - EARTHWORK AND EXCAVATION/FILLING AS NECESSARY
 - CONSTRUCTION OF UTILITIES
 - STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING
 - INSTALLATION OF INLET PROTECTION OF ON-SITE UTILITIES (AS SHOWN)
 - CONSTRUCTION OF BUILDINGS
 - CONSTRUCTION OF ALL CURBING AND LANDSCAPE ISLANDS AS INDICATED ON THE PLANS
 - SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH
 - FINAL GRADING OF ALL SLOPED AREAS
 - PLACE 6" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH SEED MIXTURE TO BE INSTALLED AS REQUIRED.
 - REMOVAL OF THE TEMPORARY SEDIMENT BASINS
 - PAVE PARKING LOT
 - LANDSCAPING PER LANDSCAPING PLAN
 - REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR GREATER

RECOMMENDED CONSTRUCTION SEQUENCE

N.T.S.

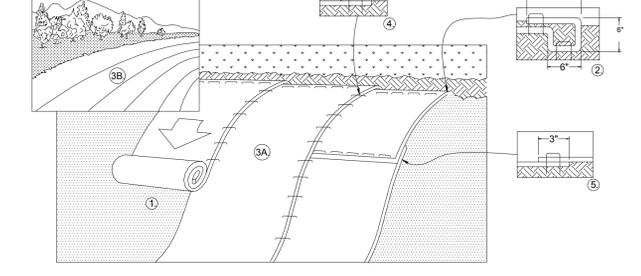


PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COARSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT	100 FT
2% TO 5%	100 FT	200 FT
>5%	ENTIRE ENTRANCE STABILIZED WITH FABC BASE COURSE (1)	

(1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

STABILIZED CONSTRUCTION ENTRANCE

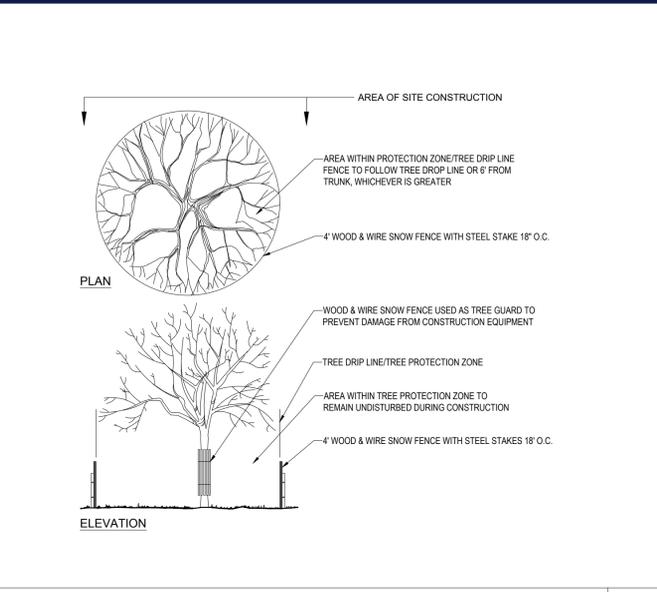
N.T.S.



- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- BEAR AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A DEEP 4\"/>

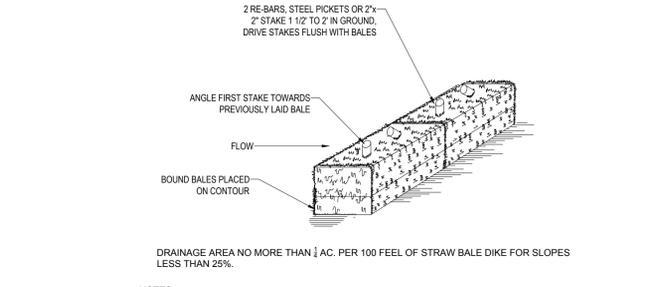
EROSION CONTROL BLANKET 2:1 SLOPES (SLOPE INSTALLATION)

N.T.S.



TREE PROTECTION DURING SITE CONSTRUCTION

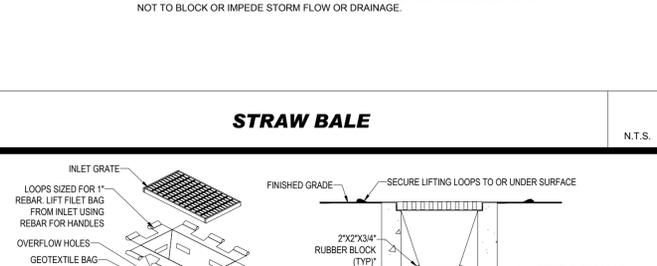
N.T.S.



- BALES SHALL BE PLACED AT THE TOP OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STRAW BALE

N.T.S.



- REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
- GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
- PLACE AN OIL ADSORBENT PAD OR FILLOW OVER INLET GRATE WHEN OIL SPILLS ARE A CONCERN.
- INSPECT PER REGULATORY REQUIREMENTS.
- THE WIDTH, "W", OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.
- THE DEPTH, "D", OF THE FILTER SACK SHALL BE THE INSIDE LENGTH OF THE GRATED INLET BOX.

PROPERTIES	TEST METHOD	UNITS	
		MIN.	MAX.
GRAB TENSILE STRENGTH	ASTM D-4632	300	LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%	
PUNCTURE	ASTM D-4633	120	LBS
MULLEN BURST	ASTM D-3786	800	PSI
TRAPEZOID TEAR	ASTM D-4533	120	LBS
UV RESISTANCE	ASTM D-4355	80%	
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE	
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT	
PERMITTIVITY	ASTM D-4491	0.85 SEC ⁻¹	

- REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
- GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
- PLACE AN OIL ADSORBENT PAD OR FILLOW OVER INLET GRATE WHEN OIL SPILLS ARE A CONCERN.
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- THE WIDTH, "W", OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.
- THE DEPTH, "D", OF THE FILTER SACK SHALL BE THE INSIDE LENGTH OF THE GRATED INLET BOX.

FILTER SACS (GRATED INLETS)

N.T.S.

BOHLER
 SITE CIVIL AND CONSULTING ENGINEERING
 PROGRAM MANAGEMENT
 LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN
 PERMITTING SERVICES
 TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/08/2024	PER TECH REVIEW COMMENTS	SK	GD

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PROJECT No.:	W211202
DRAWN BY:	EVD/CDA/PVEH
CHECKED BY:	GD
DATE:	06/10/2023
GAD ID:	W211202-SESS-4A

PROPOSED SITE PLAN DOCUMENTS

FOR

CRITERION GROUP, LLC

WAREHOUSE DEVELOPMENT

135 BROOKS STREET
 CITY OF WORCESTER
 MASSACHUSETTS

BOHLER
 352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900
 www.BohlerEngineering.com

Professional Engineer Seal for John A. Bohlert, No. 41530, State of Massachusetts, License No. 15476.

SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS

C-604

REVISION 1 - 03/08/2024

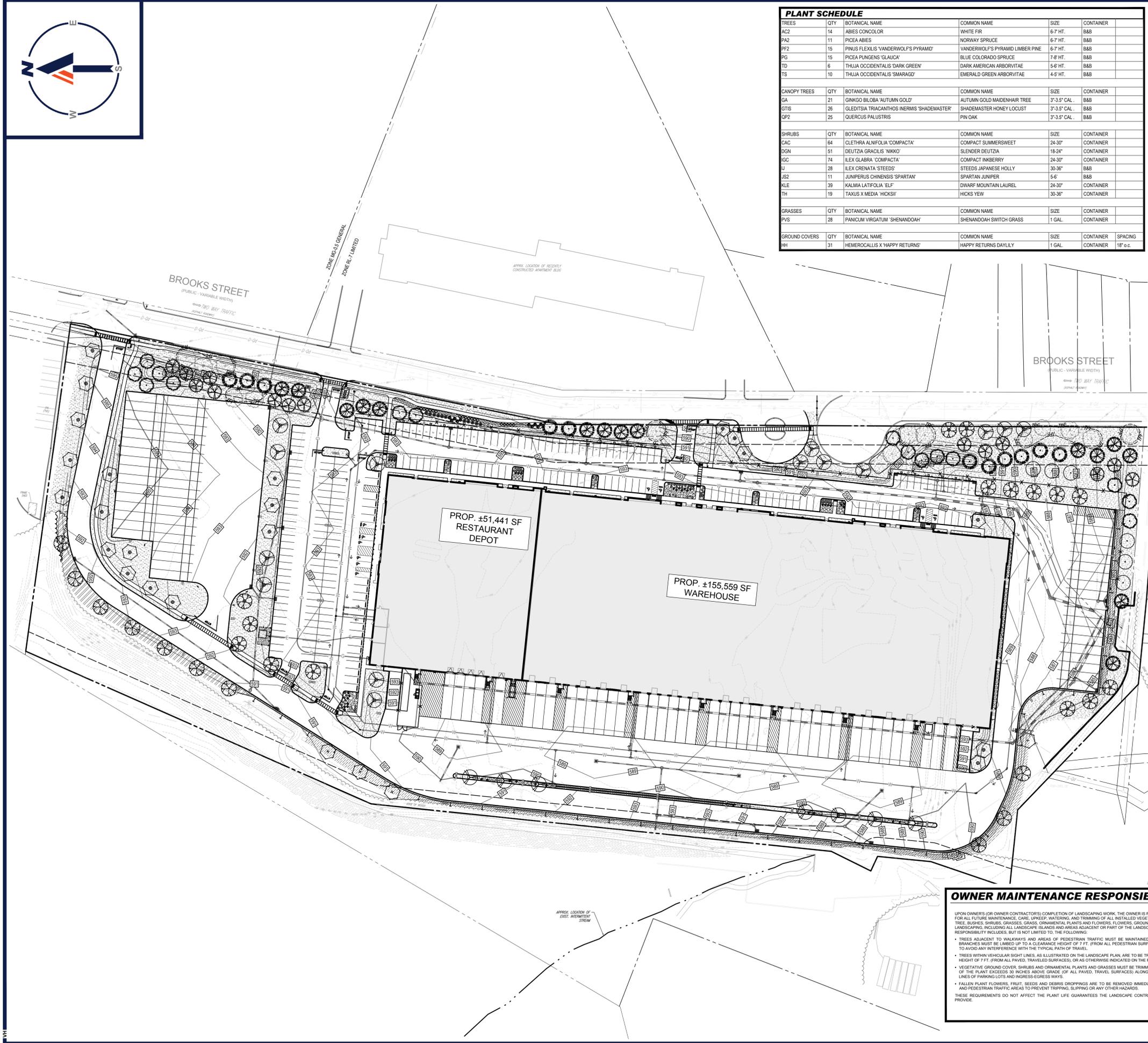
P:\171202\CAD\DRAWINGS\PLAN SET\171202-SESS-4A.dwg - LAYOUT: C-604-ROTE



**CITY OF WORCESTER, MA
LANDSCAPE REQUIREMENTS**

SECTION	REQUIREMENTS	CALCULATIONS/PROPOSED
SECTION 7 - OFF-STREET PARKING AND LOADING	<p>NOTES TO TABLE 14:</p> <p>NOTE 5: A) PARKING LOCATION AND LAYOUT REQUIREMENTS FOR ALL ZONING DISTRICTS.</p> <p>II. WITH THE EXCEPTION OF RESIDENTIAL DRIVEWAYS AND COMMON DRIVEWAYS, PARKING FACILITIES SHALL BE SET BACK A MINIMUM OF FIVE (5) FEET FROM ALL BOUNDARY LINES TO PROVIDE A BUFFER AREA FROM ABUTTING LOTS AND SHALL ALSO COMPLY WITH THE LOCATION REQUIREMENTS SET FORTH BELOW IN NOTES 5(B)(1) AND 5(B)(2). THE BUFFER AREAS SHALL CONSIST OF PERMEABLE SURFACES AND SHALL BE APPROPRIATELY LANDSCAPED IN ACCORDANCE WITH ARTICLE V, SECTION 5(C).</p> <p>NOTE 6: INTERIOR LANDSCAPING.</p> <p>PARKING LOTS WITH MORE THAN SIXTEEN (16) PARKING SPACES SHALL HAVE LANDSCAPING IN THE INTERIOR OF THE PARKING LOT IN ADDITION TO LANDSCAPING ALONG THE EDGES OF THE LOT. NO INTERIOR LANDSCAPING IS REQUIRED, HOWEVER, FOR PARKING LOTS WHERE ALL SPACES ABUT A LANDSCAPED SETBACK AREA AS DESCRIBED IN NOTE 5, ABOVE, AND THE PARKING LOT IS IN COMPLIANCE WITH ARTICLE V, SECTION 5(C) OF THIS ORDINANCE, AT LEAST ONE (1) TREE SHALL BE PLANTED WITHIN THE PARKING LOT INTERIOR FOR EVERY TEN (10) PROPOSED AND EXISTING SPACES. SUCH INTERIOR TREES SHALL BE IN ADDITION TO TREES REQUIRED ALONG THE EDGES OF THE LOT.</p> <p>INTERIOR TREES SHALL BE PLANTED IN PLANTING BEDS NO SMALLER THAN FIVE FEET BY FIVE FEET (5' X 5').</p> <p>PARKING SPACES ABUTTING A LANDSCAPED SETBACK AREA (AS DESCRIBED IN NOTE 5, ABOVE) AND IN COMPLIANCE WITH ARTICLE V, SECTION 5(C) OF THIS ORDINANCE, HOWEVER, SHALL NOT BE COUNTED IN THE CALCULATION WHEN DETERMINING THE NUMBER OF INTERIOR TREES REQUIRED. TREES SHALL BE LOCATED IN SUCH A MANNER AS TO PROVIDE SHADE OVER THE GREATEST NUMBER OF PARKING SPACES PRACTICABLE.</p>	<p>PROVIDED</p> <p>REQUIRED: 173 PARKING SPACES / 10 = 18 TREES REQUIRED: 182 TRAILER SPACES = 38 TREES TOTAL SHADE TREES PROVIDED = 72 TREES</p> <p>[24 SHADE TREES PROVIDED EVERY 50' ALONG BOTH SIDES OF MAIN DRIVEWAY CONNECTING TO BROOKS ST. IN LIEU OF EXISTING VEGETATION REMOVED]</p> <p>PROVIDED</p> <p>PROVIDED</p>
SECTION 5 - APPLICATION APPROVAL PROCESS	<p>C. LANDSCAPING DESIGN STANDARDS</p> <p>1. LANDSCAPE SCREENING</p> <p>B. LANDSCAPING SCREENING SHALL CONSIST OF PLANTING AREAS AT LEAST FIVE (5) FEET WIDE LOCATED ALONG THE SIDEWALK EDGE AND/OR SIDE LOT LINES OF A PROPOSED USE. TREES SHALL BE THE MAJOR ELEMENTS OF LANDSCAPE SCREENING. A COMBINATION OF PLANT MATERIALS, TREES AND SHRUBS SHALL BE INCLUDED IN LANDSCAPE SCREENING AREAS.</p> <p>I. TREES</p> <p>TREES SHALL BE PLANTED EVERY TWENTY (20) TO TWENTY-FIVE (25) FEET ON CENTER. TREES TO BE PLANTED SHALL HAVE TRUNKS AT LEAST THREE (3) TO THREE AND ONE-HALF (3 1/2) INCHES IN DIAMETER WHEN MEASURED SIX (6) INCHES ABOVE THE GROUND.</p> <p>II. SHRUBS</p> <p>SHRUBS SHALL BE PLANTED ALONG WITH TREES IN A LANDSCAPE SCREENING AREA. SHRUBS MAY BE DECIDUOUS OR EVERGREEN, OR A MIXTURE OF BOTH TYPES, AND SHALL BE DENSELY PLANTED TO PROVIDE A MATURE APPEARANCE WITHIN THREE (3) YEARS. FOR LANDSCAPE SCREENING AREAS ALONG A SIDEWALK EDGE, SHRUBS SHALL BE NO TALLER THAN FOUR (4) FEET HIGH.</p>	<p>PROVIDED</p> <p>PROVIDED</p> <p>PROVIDED</p>

PLANT SCHEDULE					
TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
AC2	14	ABIES CONCOLOR	WHITE FIR	6'-7" HT.	B&B
PA2	11	PICEA ABIES	NORWAY SPRUCE	6'-7" HT.	B&B
PF2	15	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID'	VANDERWOLF'S PYRAMID LEMBER PINE	6'-7" HT.	B&B
PG	15	PICEA PLINGENS 'GLAUCA'	BLUE COLORADO SPRUCE	7'-8" HT.	B&B
TD	6	THUJA OCCIDENTALIS 'DARK GREEN'	DARK AMERICAN ARBORVITAE	5'-6" HT.	B&B
TS	10	THUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	4'-5" HT.	B&B
CANOPY TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
GA	21	GINKGO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD MAIDENHAIR TREE	3'-3.5' CAL.	B&B
GTIS	26	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER'	SHADEMASTER HONEY LOCUST	3'-3.5' CAL.	B&B
QP2	25	QUERCUS PALUSTRIS	PIN OAK	3'-3.5' CAL.	B&B
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
CAC	64	CLETHRA ALNIFOLIA 'COMPACTA'	COMPACT SUMMERSWEET	24-30"	CONTAINER
DGN	51	DEUTZIA GRAECLIS 'NIKKO'	SLENDER DEUTZIA	18-24"	CONTAINER
IGC	74	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY	24-30"	CONTAINER
IJ	28	ILEX CRENATA 'STEEDS'	STEEDS JAPANESE HOLLY	30-36"	B&B
JS2	11	JUNIPERUS CHINENSIS 'SPARTAN'	SPARTAN JUNIPER	5'-6"	B&B
KL	39	KALMA LATIFOLIA 'ELF'	DWARF MOUNTAIN LAUREL	24-30"	CONTAINER
TH	19	TAXUS X MEDIA 'HICKSII'	HICKS YEW	30-36"	CONTAINER
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
PVS	28	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	1 GAL.	CONTAINER
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
HH	31	HEMEROCALLIS X 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	1 GAL.	CONTAINER 18" o.c.



SEED MIX KEY

[Pattern]	PROPOSED HYDROSEED
[Pattern]	PROPOSED CONSERVATION/WILDLIFE SEED MIX
[Pattern]	PROPOSED STEEP SLOPE MIX

OWNER MAINTENANCE RESPONSIBILITIES

UPON OWNER'S (OR OWNER CONTRACTOR'S) COMPLETION OF LANDSCAPING WORK, THE OWNER IS FULLY RESPONSIBLE FOR ALL FUTURE MAINTENANCE, CARE, UPRKEEP, WATERING, AND TRIMMING OF ALL INSTALLED VEGETATION, PLANTS, TREE, BUSHES, SHRUBS, GRASSES, GRASS, ORNAMENTAL PLANTS AND FLOWERS, FLOWERS, GROUND COVER, AND LANDSCAPING, INCLUDING ALL LANDSCAPE ISLANDS AND AREAS ADJACENT OR PART OF THE LANDSCAPED AREAS. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

- TREES ADJACENT TO WALKWAYS AND AREAS OF PEDESTRIAN TRAFFIC MUST BE MAINTAINED TO ASSURE THAT ANY BRANCHES MUST BE EMBED UP TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PEDESTRIAN SURFACES) OR PRUNED BACK TO AVOID ANY INTERFERENCE WITH THE TYPICAL PATH OF TRAVEL.
- TREES WITHIN VEHICULAR SIGHT LINES, AS ILLUSTRATED ON THE LANDSCAPE PLAN, ARE TO BE TRIMMED TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PAVED, TRAVELED SURFACES), OR AS OTHERWISE INDICATED ON THE PLANS.
- VEGETATIVE GROUND COVER, SHRUBS AND ORNAMENTAL PLANTS AND FLOWERS MUST BE TRIMMED SO THAT NO PORTION OF THE PLANT EXCEEDS 30 INCHES ABOVE GRADE (OF ALL PAVED, TRAVELED SURFACES) ALONG AND WITHIN THE SIGHT LINES OF PARKING LOTS AND INGRESS/EGRESS WAYS.
- FALLEN PLANT FLOWERS, FRUIT, SEEDS AND DEBRIS DROPPINGS ARE TO BE REMOVED IMMEDIATELY FROM VEHICULAR AND PEDESTRIAN TRAFFIC AREAS TO PREVENT TRIPPING, SLIPPING OR ANY OTHER HAZARDS.

THESE REQUIREMENTS DO NOT AFFECT THE PLANT LIFE GUARANTEE THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE.

REFER TO SHEETS C-702-LAND A & C-703-LAND B FOR LANDSCAPE SCHEDULE

THIS PLAN TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY

REFER LANDSCAPE NOTES & DETAILS SHEET FOR LANDSCAPE NOTES AND DETAILS

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 PROGRAM MANAGEMENT
 LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN
 PERMITTING SERVICES
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PROJECT No.: W211202
 DRAWN BY: EVD/CD/AP/VEH
 CHECKED BY: GD
 DATE: 06/10/2023
 CAD I.D.: W211202-LS-CP-4A

PROPOSED SITE PLAN DOCUMENTS

FOR

CRITERION GROUP, LLC

WAREHOUSE DEVELOPMENT

135 BROOKS STREET
 CITY OF WORCESTER
 WORCESTER COUNTY
 MASSACHUSETTS

BOHLER

352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900

www.BohlerEngineering.com



SHEET TITLE:

OVERALL LANDSCAPE PLAN

SHEET NUMBER:

C-701

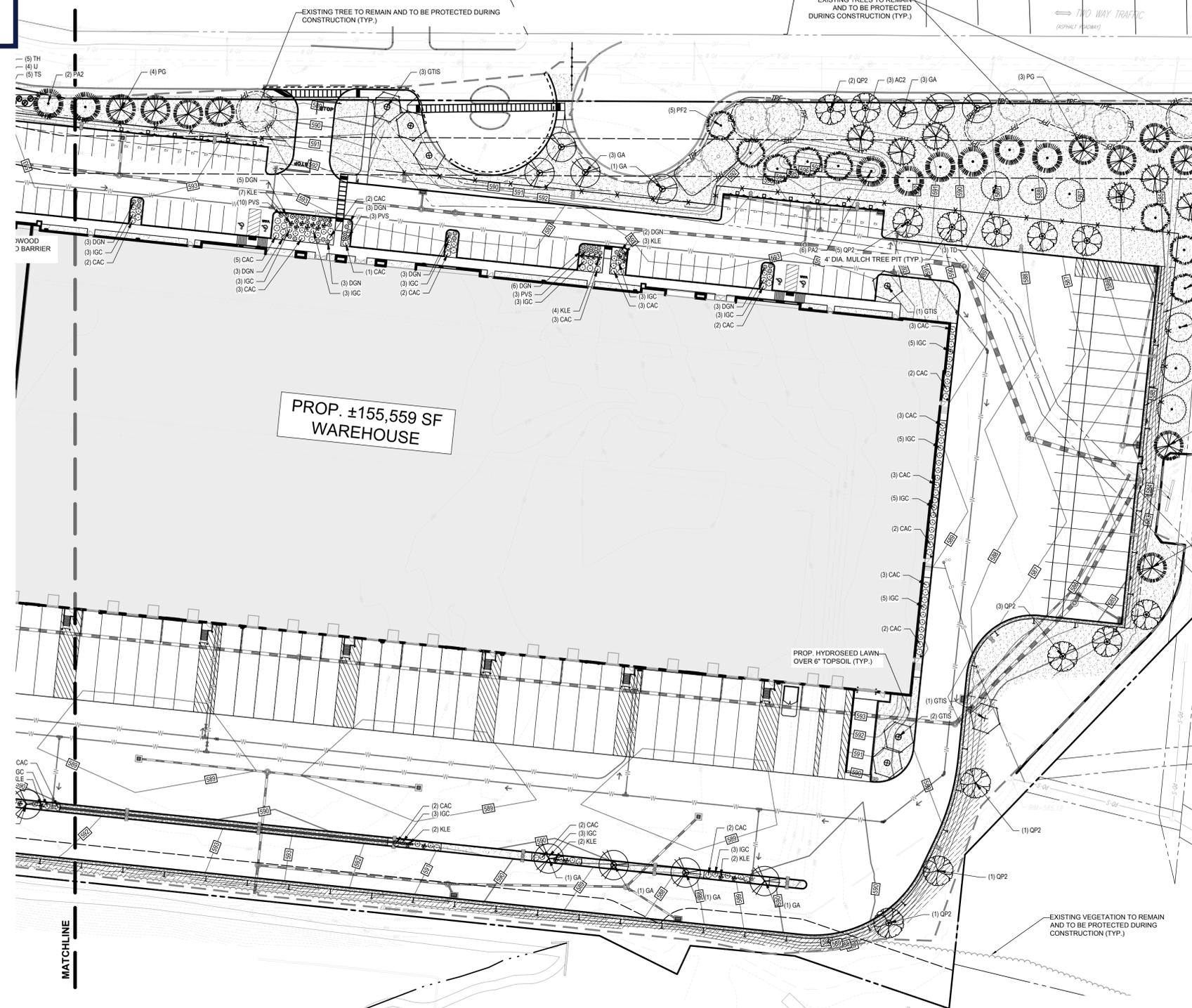
REVISION 1 - 03/08/2024



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MATCHLINE



BROOKS STREET
(PUBLIC - VARIABLE WIDTH)
TWO WAY TRAFFIC
(ASPHALT PAVEMENT)

PLANT SCHEDULE						
TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	
AC2	14	ABIES CONCOLOR	WHITE FIR	6-7 HT.	B&B	
PA2	11	PICEA ABIES	NORWAY SPRUCE	6-7 HT.	B&B	
PF2	15	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID'	VANDERWOLF'S PYRAMID LAMBER PINE	6-7 HT.	B&B	
PG	15	PICEA PLINGENS 'GLAUCA'	BLUE COLORADO SPRUCE	7-8 HT.	B&B	
TD	6	THUJA OCCIDENTALIS 'DARK GREEN'	DARK AMERICAN ARBORVITAE	5-6 HT.	B&B	
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IGC	74	ILEX GLABRA 'COMPACTA'	COMPACT HICKBERRY	24-30"	CONTAINER	
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JS2	11	JUNIPERUS CHINENSIS 'SPARTAN'	SPARTAN JUNIPER	5-6'	B&B	
KLE	39	KALMIA LATIFOLIA 'ELF'	DWARF MOUNTAIN LAUREL	24-30"	CONTAINER	
TH	19	TAXUS X MEDIA 'HICKSII'	HICKS YEW	30-36"	CONTAINER	
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	
PVS	28	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	1 GAL.	CONTAINER	
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
HH	31	HEMEROCALLIS X 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	1 GAL.	CONTAINER	18" o.c.

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1	03/08/2024	PER TECH REVIEW COMMENTS	SK GD

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PROPOSED SITE PLAN DOCUMENTS
FOR
CRITERION GROUP, LLC
WAREHOUSE DEVELOPMENT
135 BROOKS STREET
CITY OF WORCESTER
WORCESTER COUNTY
MASSACHUSETTS

BOHLER
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
www.BohlerEngineering.com



SHEET TITLE:
LANDSCAPE PLAN B
SHEET NUMBER:
C-703
REVISION 1 - 03/08/2024

OWNER MAINTENANCE RESPONSIBILITIES

UPON OWNERS (OR OWNER CONTRACTORS) COMPLETION OF LANDSCAPING WORK, THE OWNER IS FULLY RESPONSIBLE FOR ALL FUTURE MAINTENANCE, CARE, UPLIFT, WATERING, AND TRIMMING OF ALL INSTALLED VEGETATION, PLANTS, TREE, SHRUBS, GRASSES, GRASS, ORNAMENTAL PLANTS AND FLOWERS, FLOWERS, GROUND COVER, AND LANDSCAPING, INCLUDING ALL LANDSCAPE ISLANDS AND AREAS ADJACENT OR PART OF THE LANDSCAPED AREAS. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

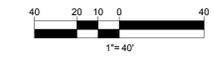
- TREES ADJACENT TO WALKWAYS AND AREAS OF PEDESTRIAN TRAFFIC MUST BE MAINTAINED TO ASSURE THAT ANY BRANCHES MUST BE LIMBED UP TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PEDESTRIAN SURFACES) OR PRUNED BACK TO AVOID ANY INTERFERENCE WITH THE TYPICAL PATH OF TRAVEL.
- TREES WITHIN VEHICULAR SIGHT LINES, AS ILLUSTRATED ON THE LANDSCAPE PLAN, ARE TO BE TRIMMED TO A CLEARANCE HEIGHT OF 7 FT. (FROM ALL PAVED, TRAVELED SURFACES), OR AS OTHERWISE INDICATED ON THE PLANS.
- VEGETATIVE GROUND COVER, SHRUBS AND ORNAMENTAL PLANTS AND GRASSES MUST BE TRIMMED SO THAT NO PORTION OF THE PLANT EXCEEDS 30 INCHES ABOVE GRADE OF ALL PAVED, TRAVELED SURFACES) ALONG AND WITHIN THE SIGHT LINES OF PARKING LOTS AND INGRESS/EGRESS WAYS.
- FALLEN PLANT FLOWERS, FRUIT, SEEDS AND DEBRIS DROPPINGS ARE TO BE REMOVED IMMEDIATELY FROM VEHICULAR AND PEDESTRIAN TRAFFIC AREAS TO PREVENT TRIPPING, SLIPPING OR ANY OTHER HAZARDS.

THESE REQUIREMENTS DO NOT AFFECT THE PLANT LIFE GUARANTEE THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE.

REFER TO OVERALL LANDSCAPE PLAN C-701 FOR LANDSCAPE REQUIREMENTS AND SEED MIX KEY

THIS PLAN TO BE UTILIZED FOR LANDSCAPE PURPOSES ONLY

REFER TO SHEET C-704 FOR LANDSCAPE NOTES AND DETAILS



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LANDSCAPE SPECIFICATIONS

1. **SCOPE OF WORK:**
 1.1. THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SODDING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.

2. **MATERIALS**
 2.1. GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.
 2.2. TOPSOIL - NATURAL, FRIABLE, LOAMY SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, A PH RANGE BETWEEN 4.5-7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.

2.3. LAWN - ALL DISTURBED AREAS ARE TO BE TREATED WITH A MINIMUM 6" THICK LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, AND SEEDED OR SODDED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS INDICATED ON THE LANDSCAPE PLAN

2.3.1. LAWN SEED MIXTURE SHALL BE FRESH, CLEAN NEW CROP SEED.
 2.3.2. SOD SHALL BE STRONGLY ROOTED, WEED AND DISEASE-FREE WITH A UNIFORM THICKNESS. SOD INSTALLED ON SLOPES GREATER THAN 4:1 SHALL BE PEGGED TO HOLD SOD IN PLACE.

2.4. MULCH - ALL PLANTING BEDS SHALL BE MULCHED WITH A 3" THICK LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH, UNLESS OTHERWISE STATED ON THE LANDSCAPE PLAN AND/OR LANDSCAPE PLAN NOTES/DETAILS.

2.5. FERTILIZER
 2.5.1. FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE.
 2.5.2. FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE 10% NITROGEN, 6% PHOSPHORUS AND 4% POTASSIUM BY WEIGHT. A FERTILIZER SHOULD NOT BE SELECTED WITHOUT A SOIL TEST PERFORMED BY A CERTIFIED SOIL LABORATORY.

2.6. PLANT MATERIAL
 2.6.1. ALL PLANTS SHALL IN ALL CASES CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1), LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION (FORMERLY THE AMERICAN ASSOCIATION OF NURSERYMEN).

2.6.2. IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL.
 2.6.3. PLANTS SHALL BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE. TAGS ARE TO REMAIN ON AT LEAST ONE PLANT OF EACH SPECIES FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION.

2.6.4. TREES WITH ABRASION OF THE BARK, SUN SCALDS, DISFIGURATION OR FRESH CUTS OF LIMBS OVER 1/2", WHICH HAVE NOT BEEN COMPLETELY CALLEDUS, SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES.

2.6.5. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE OF DISEASE, INSECTS, PESTS, EGGS OR LARVAE.

2.6.6. CALIPER MEASUREMENTS OF NURSERY GROWN TREES SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING A FOUR INCH (4") CALIPER SIZE. IF THE CALIPER AT SIX INCHES (6") ABOVE THE GROUND EXCEEDS FOUR INCHES (4") IN CALIPER, THE CALIPER SHOULD BE MEASURED AT A POINT 12" ABOVE THE NATURAL GRADE.

2.6.7. SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST BRANCH.
 2.6.8. TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.

3. **GENERAL WORK PROCEDURES**
 3.1. CONTRACTOR TO UTILIZE WORKMANLIKE INDUSTRY STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH WORKDAY. ALL DEBRIS, MATERIALS AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF.
 3.2. WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL NOT BE BURIED, INCLUDING ORGANIC MATERIALS, BUT SHALL BE REMOVED COMPLETELY FROM THE SITE.

4. **SITE PREPARATIONS**
 4.1. BEFORE AND DURING PRELIMINARY GRADING AND FINISHED GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES OUTLINED HEREIN.
 4.2. ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE BRANCH COLLAR. CONTRACTOR SHALL ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH CLEAN, SHARP TOOLS AND TOPSOIL SHALL BE PLACED AROUND THE REMAINDER OF THE ROOTS. EXISTING TREES SHALL BE MONITORED ON A REGULAR BASIS FOR ADDITIONAL ROOT OR BRANCH DAMAGE AS A RESULT OF CONSTRUCTION. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR SHALL WATER EXISTING TREES AS NEEDED TO PREVENT SHOCK OR DECLINE.
 4.3. CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY STAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL. UTILITY COMPANIES SHALL BE CONTACTED THREE (3) DAYS PRIOR TO THE BEGINNING OF WORK.

5. **TREE PROTECTION**
 5.1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DRIP LINE OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.
 5.2. A FORTY-EIGHT INCH (48") HIGH WOODEN SNOW FENCE OR ORANGE COLORED HIGH-DENSITY VISI-FENCE, OR APPROVED EQUAL, MOUNTED ON STEEL POSTS SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION ZONE. POSTS SHALL BE LOCATED AT A MAXIMUM OF EIGHT FEET (8') ON CENTER OR AS INDICATED WITHIN THE TREE PROTECTION DETAIL.
 5.3. WHEN THE TREE PROTECTION FENCING HAS BEEN INSTALLED, IT SHALL BE INSPECTED BY THE APPROVING AGENCY PRIOR TO DEMOLITION, GRADING, TREE CLEARING OR ANY OTHER CONSTRUCTION. THE FENCING ALONG THE TREE PROTECTION ZONE SHALL BE REGULARLY INSPECTED BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
 5.4. AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.

6. **SOIL MODIFICATIONS**
 6.1. CONTRACTOR SHALL ATTAIN A SOIL TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY.
 6.2. LANDSCAPE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. SOIL MODIFICATIONS, AS SPECIFIED HEREIN, MAY NEED TO BE CONDUCTED BY THE LANDSCAPE CONTRACTOR DEPENDING ON SITE CONDITIONS.
 6.3. THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS SHOULD BE REVISED DEPENDING ON THE OUTCOME OF A TOPSOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY.

6.3.1. TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6-12". USE COMPOSTED BARK, COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.5.
 6.3.2. TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY NEED TO BE ADDED TO INCREASE DRAINAGE.
 6.3.3. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

7. **FINISHED GRADING**
 7.1. UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE.
 7.2. LANDSCAPE CONTRACTOR SHALL VERIFY THAT SUBGRADE FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE SUBGRADE OF THE SITE MUST MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1").
 7.3. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
 7.4. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN AND AROUND THE PLANTING BEDS. STANDING WATER SHALL NOT BE PERMITTED IN PLANTING BEDS.

8. **TOPSOILING**
 8.1. CONTRACTOR SHALL PROVIDE A 6" THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS.
 8.2. ON-SITE TOPSOIL MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED. TOPSOIL FROM THE SITE MAY BE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED, STORED AND PROTECTED PRIOR TO CONSTRUCTION.
 8.3. CONTRACTOR SHALL FURNISH TO THE APPROVING AGENCY AN ANALYSIS OF BOTH IMPORTED AND ON-SITE TOPSOIL TO BE UTILIZED IN ALL PLANTING AREAS. THE PH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGHOUT SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.
 8.4. ALL LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULLIVATION SHALL BE DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES SECTION ABOVE. THE FOLLOWING SHALL BE FILLED INTO THE TOP FOUR INCHES (4") IN TWO DIRECTIONS (QUANTITIES BASED ON A 1,000 SQUARE FOOT AREA - FOR BID PURPOSES ONLY) [SEE SPECIFICATION 6.A.):
 8.4.1. 20 POUNDS 'GRO-POWER' OR APPROVED SOIL CONDITIONER/FERTILIZER
 8.4.2. 20 POUNDS NITRO-FORM (COURSE) 38-0-0 BLUE CHIP OR APPROVED NITROGEN FERTILIZER
 8.5. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS.

9. **PLANTING**
 9.1. INsofar THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROTECT UNINSTALLED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.
 9.2. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.

9.3. ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN-CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED.
 9.4. ALL PLANTING CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. NATURAL FIBER BURLAP MUST BE CUT FROM AROUND THE TRUNK OF THE TREE AND FOLDED DOWN AGAINST THE ROOT BALL PRIOR TO BACKFILLING.
 9.5. POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
 9.6. PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE, AS SHOWN ON THE APPROVED LANDSCAPE PLAN, MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER SHALL OCCUR ONLY DURING THE FOLLOWING PLANTING SEASONS:
 9.6.1. PLANTS: MARCH 15 TO DECEMBER 15
 9.6.2. LAWN: MARCH 15 TO JUNE 15 OR SEPT. 1 TO DECEMBER 1
 9.6.3. PLANTINGS REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED DURING THE NEXT APPROPRIATE SEASON AT THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY FOR POTENTIAL SUBSTITUTIONS.
 9.7. FURTHERMORE, THE FOLLOWING TREE VARIETIES ARE UNUSUALLY SUSCEPTIBLE TO WINTER DAMAGE. WITH TRANSPLANT SHOCK AND THE SEASONAL LACK OF NITROGEN AVAILABILITY, THE RISK OF PLANT DEATH IS GREATLY INCREASED. IT IS NOT RECOMMENDED THAT THESE SPECIES BE PLANTED DURING THE FALL PLANTING SEASON:
 ACER RUBRUM PLATANUS X ACERIFOLIA
 BETULA VARIETIES POPULUS VARIETIES
 CARPINUS VARIETIES PRUNUS VARIETIES
 CRATAEGUS VARIETIES PYRUS VARIETIES
 KOELREUTERA QUERCUS VARIETIES
 LIQUIDAMBAR STRYACIFLUA TILIA TOMENTOSA
 LIRIODENDRON TULIPEFERA ZELKOVA VARIETIES

9.8. PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:
 9.8.1. 1 PART PEAT MOSS
 9.8.2. 1 PART COMPOSTED COW MANURE BY VOLUME
 9.8.3. 3 PARTS TOPSOIL BY VOLUME
 9.8.4. 21 GRAMS 'AGRIFORM' PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS:
 9.8.4.1. 2 TABLETS PER 1 GALLON PLANT
 9.8.4.2. 3 TABLETS PER 5 GALLON PLANT
 9.8.4.3. 4 TABLETS PER 15 GALLON PLANT
 9.8.4.4. LARGER PLANTS: 2 TABLETS PER 1/2" CALIPER OF TRUNK

9.9. FILL PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER THOROUGHLY.
 9.10. ALL PLANTS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT BALL, THE POINT AT WHICH THE ROOT FLARE BEGINS, IS SET AT GROUND LEVEL AND IN THE CENTER OF THE PIT. NO SOIL IS TO BE PLACED DIRECTLY ON TOP OF THE ROOT BALL.
 9.11. ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A MINIMUM BRANCHING HEIGHT OF 7' FROM GRADE.
 9.12. GROUND COVER AREAS SHALL RECEIVE A 1/2" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING. ALL GROUND COVER AREAS SHALL BE WEEDED AND TREATED WITH A PRE-EMERGENT CHEMICAL AS PER MANUFACTURER'S RECOMMENDATION.
 9.13. NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED LESS THAN TWO FEET (2') FROM EXISTING STRUCTURES AND SIDEWALKS.
 9.14. ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED HEREIN TO FILL THE ENTIRE BED AREA OR SAUCER. NO MULCH IS TO TOUCH THE TRUNK OF THE TREE OR SHRUB.
 9.15. ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING SPECIFICATIONS AS LISTED HEREIN.

10. **TRANSPLANTING (WHEN REQUIRED)**
 10.1. ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT.
 10.2. IF PLANTS ARE TO BE STOCKPILED BEFORE PLANTING, THEY SHALL BE HEALED IN WITH MULCH OR SOIL, ADEQUATELY WATERED AND PROTECTED FROM EXTREME HEAT, SUN AND WIND.
 10.3. PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10 AND JUNE 30.
 10.4. UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.
 10.5. TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN.
 10.6. TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED IN KIND. TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES.

11. **WATERING**
 11.1. NEW PLANTINGS OR LAWN AREAS SHALL BE ADEQUATELY IRRIGATED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. WATERING SHALL CONTINUE AT LEAST UNTIL PLANTS ARE ESTABLISHED.
 11.2. SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT TIME OF PLANTING. IF WATER IS NOT AVAILABLE ON SITE, CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER. THE USE OF WATERING BAGS IS RECOMMENDED FOR ALL NEWLY PLANTED TREES.
 11.3. IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE, IT SHALL BE USED TO WATER PROPOSED PLANT MATERIAL, BUT ANY FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE CONTRACTOR'S RESPONSIBILITY OF MAINTAINING THE DESIRED MOISTURE LEVEL FOR VIGOROUS, HEALTHY GROWTH.

12. **GUARANTEE**
 12.1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF 1 YEAR FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGENCY. CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE BOND FOR TEN PERCENT (10%) OF THE VALUE OF THE LAWN WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND WHEN A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
 12.2. ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANTING SEASON. ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE, WITHOUT EXCEPTION.
 12.3. TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND THROUGHOUT THE 90 DAY MAINTENANCE PERIOD AS SPECIFIED HEREIN. CULTIVATION, WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASE.
 12.4. LAWNS SHALL BE MAINTAINED THROUGH WATERING, FERTILIZING, WEEDING, MOVING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, REGARDING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.

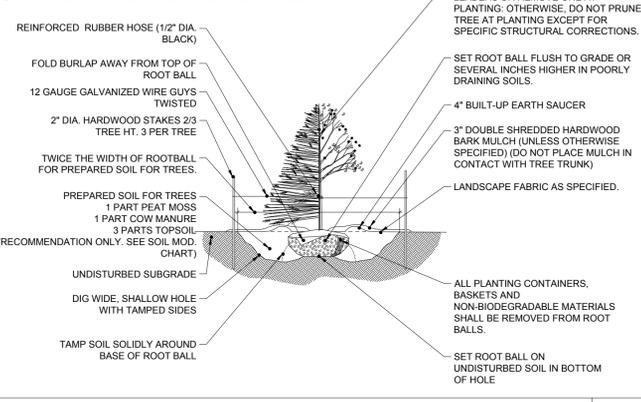
13. **CLEANUP**
 13.1. UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL UNUSED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE. ALL PAVED AREAS ARE TO BE CLEANED.
 13.2. THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
 14. **MAINTENANCE (ALTERNATIVE BID):**
 14.1. A 90 DAY MAINTENANCE PERIOD SHALL COMMENCE AT THE END OF ALL LANDSCAPE INSTALLATION OPERATIONS. THE 90 DAY MAINTENANCE PERIOD ENSURES TO THE OWNER/OPERATOR THAT THE NEWLY INSTALLED LANDSCAPING HAS BEEN MAINTAINED AS SPECIFIED ON THE APPROVED LANDSCAPE PLAN. ONCE THE INITIAL 90 DAY MAINTENANCE PERIOD HAS EXPIRED, THE OWNER/OPERATOR MAY REQUEST THAT BIDDERS SUBMIT AN ALTERNATE MAINTENANCE BID FOR A MONTHLY MAINTENANCE CONTRACT. THE ALTERNATE MAINTENANCE CONTRACT WILL ENCOMPASS ANY WORK THAT IS CONSIDERED APPROPRIATE TO ENSURE THAT PLANT AND LAWN AREAS ARE HEALTHY AND MANICURED TO THE APPROVAL OF THE OWNER/OPERATOR.

25. **QUICK EROSION CONTROL COVER MIX** AS PREPARED BY:
 ERNST CONSERVATION SEEDS, INC.
 8884 MERCER PIKE, MEADVILLE, PA 16335
 PHONE: 800-873-3321 / 814-336-2404
 EMAIL: SALES@ERNSTSEED.COM
 WEBSITE: WWW.ERNSTSEED.COM
 APPLICATION RATE: 50 LBS. / ACRE
 MIX COMPOSITION:
 50.0% Lolium multiflorum (Annual Ryegrass)
 50.0% Lolium perenne, 'Blackcat II' (Perennial Ryegrass)

SLOPE SEED MIX SPECIFICATIONS

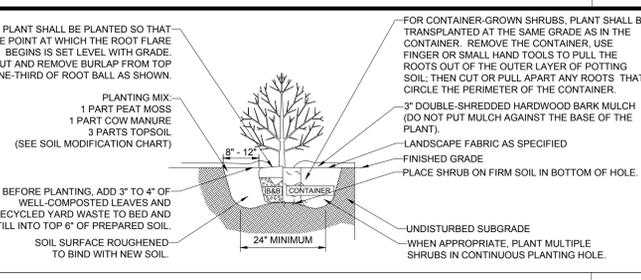
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 MIX COMPOSITION:
 50.0% Lolium multiflorum (Annual Ryegrass)
 50.0% Lolium perenne, 'Blackcat II' (Perennial Ryegrass)

NOTES:
 1.) NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
 2.) REMOVE ALL NON-BIODEGRADABLE MATERIAL AND ROPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURLAP BACK 1/3 FROM ROOT BALL.
 3.) PLANTING DEPTH SHALL BE THE SAME AS GROWN IN NURSERY.
 4.) THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH.
 5.) THE BOTTOM OF PLANTING PIT EXCAVATIONS SHOULD BE ROUGH TO AVOID MATTING OF SOIL LAYERS AS NEW SOIL IS ADDED. IT IS PREFERRED TO TILL THE FIRST LIFT (2 TO 3 IN.) OF PLANTING SOIL INTO THE SUBSOIL.
 6.) REFER TO THE CHART "GENERAL RANGE OF SOIL MODIFICATIONS & VOLUMES FOR VARIOUS SOIL CONDITIONS" TO DETERMINE MINIMUM WIDTH OF PREPARED SOIL.
 7.) SUBSTITUTE ARBORVITAE STAKING SYSTEM WHEN SPECIFIED.



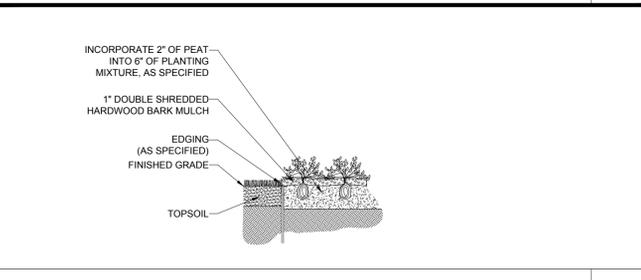
TREE PLANTING DETAIL

N.T.S.



SHRUB PLANTING DETAIL

N.T.S.



GROUND COVER PLANTING

N.T.S.

1. PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL DEBRIS LARGER THAN 2" DIAMETER.
 2. PRIOR TO SEEDING, CONSULT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
 3. SEEDING RATES:
 PERENNIAL RYEGRASS 1/2 LB/1000 SQ FT
 KENTUCKY BLUEGRASS 1 LB/1000 SQ FT
 RED FESCUE 1/2 LB/1000 SQ FT
 SPREADING FESCUE 1/2 LB/1000 SQ FT
 FERTILIZER (16.32.16) 2 LB/1000 SQ FT
 LIQUID LIME 1 GAL/800 GAL
 TANK TACKIFIER 35 LB/800 GAL
 TANK FIBER MULCH 30 LB/1000 SQ FT
 4. GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO IRRIGATE SEEDED AREA UNTIL AN ACCEPTABLE STAND OF COVER IS ESTABLISHED BY OWNER.

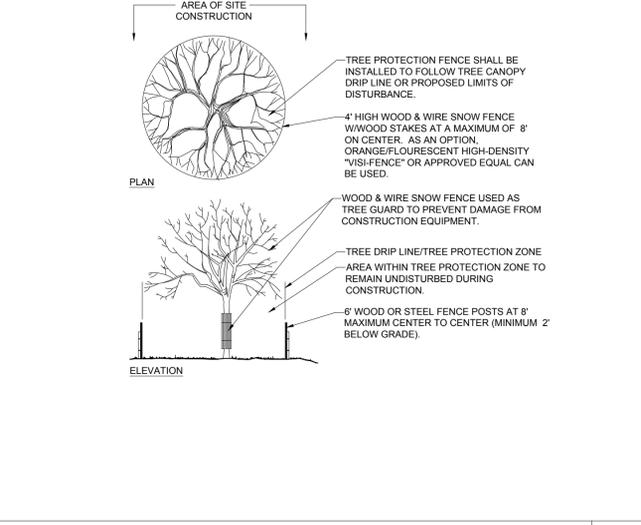
HYDROSEED SPECIFICATIONS

N.T.S.

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 PHONE: 800-873-3321 / 814-336-2404
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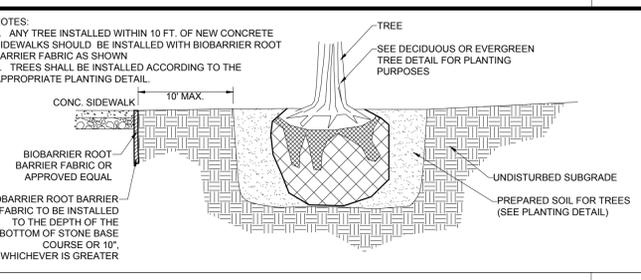
SLOPE SEED MIX SPECIFICATIONS

N.T.S.



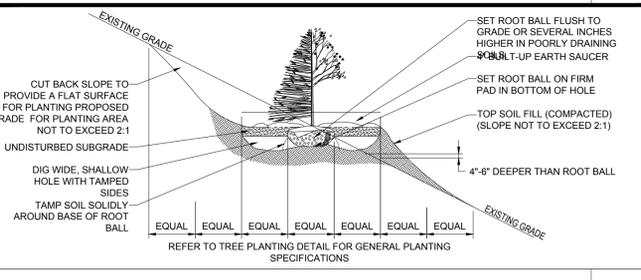
TREE PROTECTION DURING SITE CONSTRUCTION

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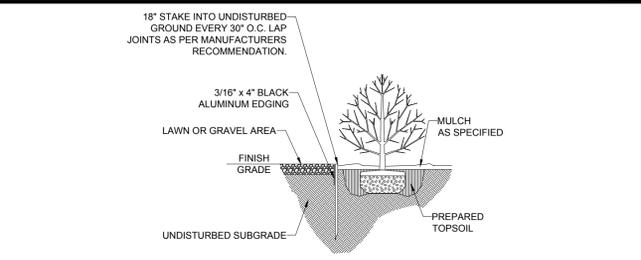
BIOBARRIER ROOT BARRIER DETAIL

N.T.S.



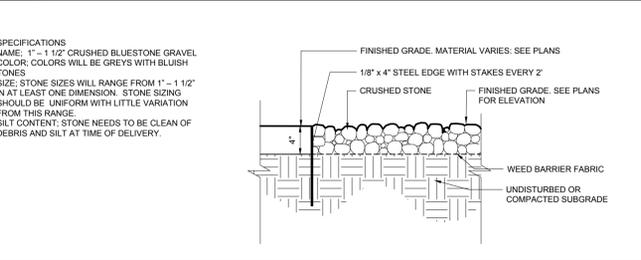
TREE PLANTING DETAIL - ON SLOPE

N.T.S.



BLACK ALUMINUM EDGING

N.T.S.



CRUSHED STONE MULCH DETAIL

N.T.S.

SPECIFICATIONS:
 NAME: 1" - 1 1/2" CRUSHED BLUESTONE GRAVEL
 COLOR: COLORS WILL BE GREYS WITH BLUSH TONES
 SIZE: STONE SIZES WILL RANGE FROM 1" - 1 1/2" IN AT LEAST ONE DIMENSION. STONE SIZING SHOULD BE UNIFORM WITH LITTLE VARIATION FROM THIS RANGE.
 SILT CONTENT: STONE NEEDS TO BE CLEAN OF DEBRIS AND SILT AT TIME OF DELIVERY.

CRUSHED STONE MULCH DETAIL

N.T.S.

BOHLER
 SITE CIVIL AND CONSULTING ENGINEERING
 PROGRAM MANAGEMENT
 LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN
 PERMITTING SERVICES
 TRANSPORTATION SERVICES

REVISIONS

REV	DATE	COMMENT	DRAWN BY
1	03/08/2024	PER TECH REVIEW COMMENTS	SK GD

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PERMIT SET

PROJECT No.: W211202
 DRAWN BY: EVID/CDIA/PVH
 CHECKED BY: SK
 DATE: 06/10/2023
 CAD ID: W211202-LSQP-4A

PROPOSED SITE PLAN DOCUMENTS

CRITERION GROUP, LLC

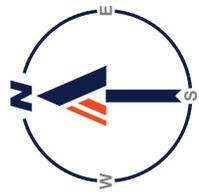
WAREHOUSE DEVELOPMENT
 135 BROOKS STREET
 CITY OF WORCESTER
 WORCESTER COUNTY
 MASSACHUSETTS

BOHLER
 352 TURNPIKE ROAD
 SOUTHBOROUGH, MA 01772
 Phone: (508) 480-9900
 www.BohlerEngineering.com

MASSACHUSETTS REGISTERED LANDSCAPE ARCHITECT
 No. 12121
 EXPIRES 12/31/2025

LANDSCAPE NOTES & DETAILS

SHEET NUMBER:
C-704

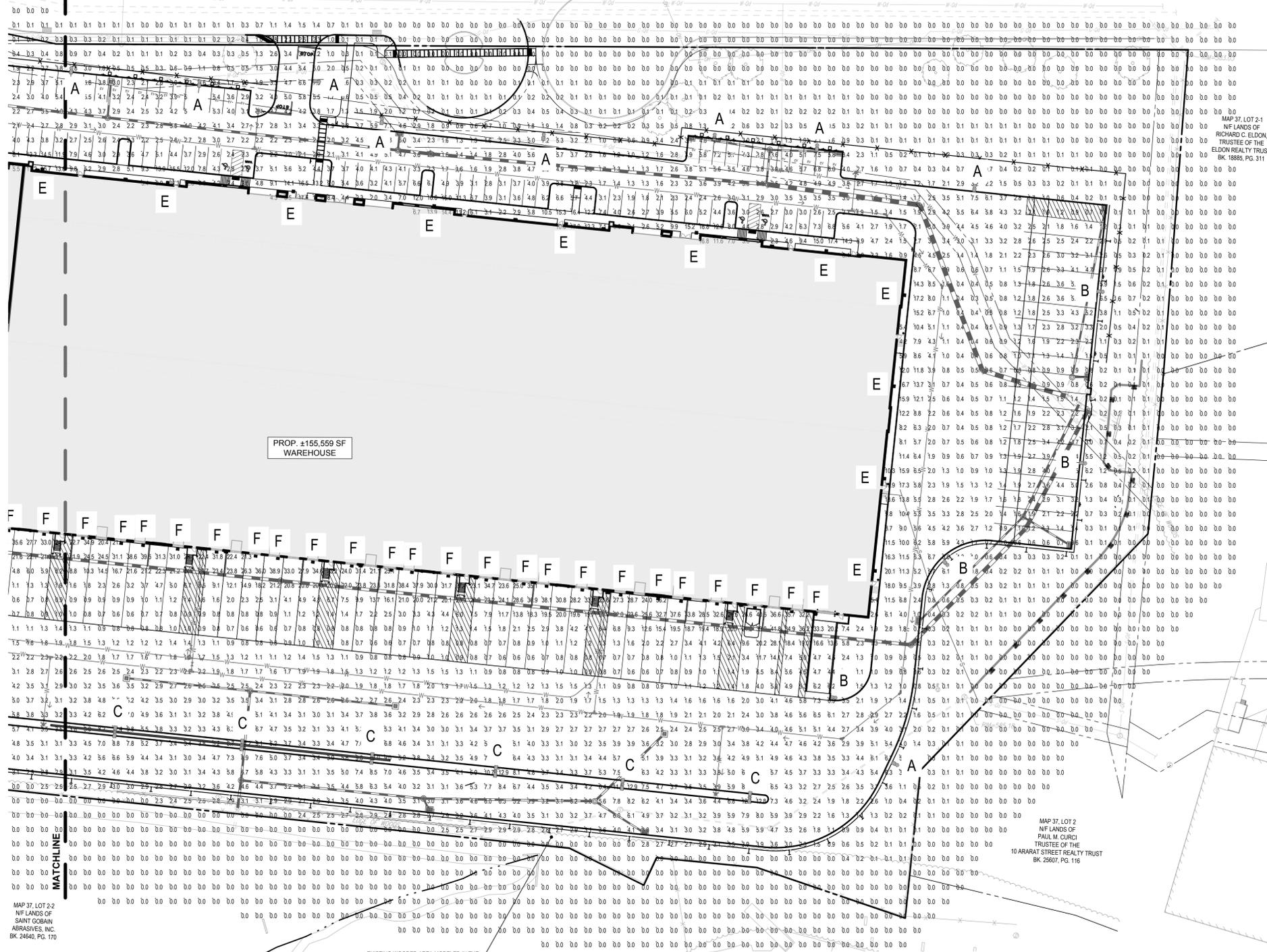


MATCHLINE

MAP 37, LOT 2-2
NF LANDS OF
SAINT GOBAIN
ABRASIVES, INC.
BK. 24640, PG. 170

**EXISTING STREET LIGHTS WITHIN
BROOKS STREET HAVE NOT BEEN
INCLUDED IN THE LIGHTING LEVELS**

BROOKS STREET
(PUBLIC - VARIABLE WIDTH)
TWO WAY TRAFFIC
(ASPHALT ROADWAY)



PROP. ±155,559 SF
WAREHOUSE

100' BUFFER

1 STORY
FRAME BUILDING
FF 575.84

MATCHLINE

MAP 37, LOT 2-2
NF LANDS OF
SAINT GOBAIN
ABRASIVES, INC.
BK. 24640, PG. 170

APPROX. LOCATION OF
EXIST. INTERMITTENT
STREAM

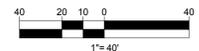
EXISTING WOODED AREA MODELED IN THE
LIGHTING PROGRAM. VEGETATIVE COVER
GREATLY REDUCES THE LIGHT LEVELS ALONG
THE PROPERTY BOUNDARY. VEGETATIVE
COVER SHALL BE MAINTAINED AS SEASONAL
CHANGES OR REMOVAL OF TREES COULD
IMPACT THE FIELD CONDITIONS.

MAP 37, LOT 2-2
NF LANDS OF
SAINT GOBAIN
ABRASIVES, INC.
BK. 24640, PG. 170

MAP 37, LOT 2
NF LANDS OF
PAUL M. CURCI
TRUSTEE OF THE
10 ARARAT STREET REALTY TRUST
BK. 25507, PG. 116

LUMINAIRE SCHEDULE					
SYMBOL	QTY	ARRANGEMENT	LUMENS	LLF	DESCRIPTION
⊙ A	21	SINGLE	37364	0.92	LITHONIA LIGHTING DSX1 TYPE 4 LED AREA LIGHT WITH SHIELD MOUNTED @ 20'; DSX1-LED-P8-40K-T4M
⊙ B	8	SINGLE	28645	0.92	LITHONIA LIGHTING DSX1 FORWARD THROW LED AREA LIGHT MOUNTED @ 20'; DSX1-LED-P8-40K-TFTM
⊙ C	9	DOUBLE @ 180	28645	0.92	LITHONIA LIGHTING DSX1 TYPE 4 LED AREA LIGHT MOUNTED @ 20'; DSX1-LED-P8-40K-T4M
⊙ D	3	DOUBLE @ 180	37364	0.92	LITHONIA LIGHTING DSX1 TYPE 4 LED AREA LIGHT MOUNTED @ 20'; DSX1-LED-P8-40K-T4M
⊙ E	17	BUILDING	18996	0.92	LITHONIA LIGHTING DSX1 TYPE 2 LED WALL LIGHT WITH WALL BRACKET MOUNTED @ 10'; DSX1-LED-P8-40K-T2M
⊙ F	33	BUILDING	23739	0.92	LITHONIA LIGHTING DSX1 TYPE 4 LED WALL LIGHT WITH WALL BRACKET MOUNTED @ 10'; DSX1-LED-P8-40K-T4M
⊙ G	5	SINGLE	29743	0.92	LITHONIA LIGHTING DSX1 TYPE 5 LED AREA LIGHT MOUNTED @ 20'; DSX1-LED-P8-40K-T5M

**THIS PLAN TO BE UTILIZED FOR
LIGHTING PURPOSES ONLY**



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SUSTAINABLE DESIGN
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PROJECT No.: W211202
DRAWN BY: EVD/CD/PA/VEH
CHECKED BY: GD
DATE: 05/10/2023
CAD ID: W211202-LGHT-4A

**PROPOSED SITE
PLAN DOCUMENTS**
FOR
**CRITERION
GROUP, LLC**

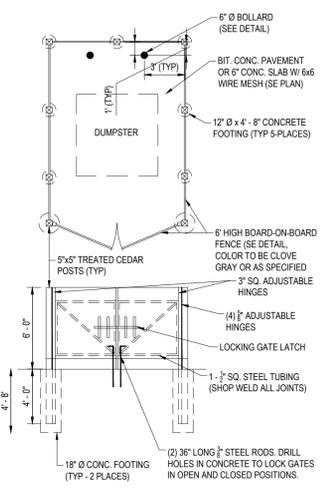
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WORCESTER COUNTY
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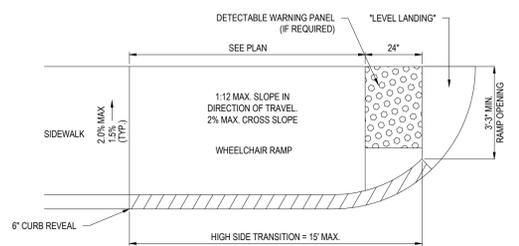
Professional Engineer Seal for John A. Bohler, No. 41530, State of Massachusetts, License No. 15476.

SHEET TITLE:
**LIGHTING
PLAN B**
SHEET NUMBER:
C-803
REVISION 1 - 03/08/2024

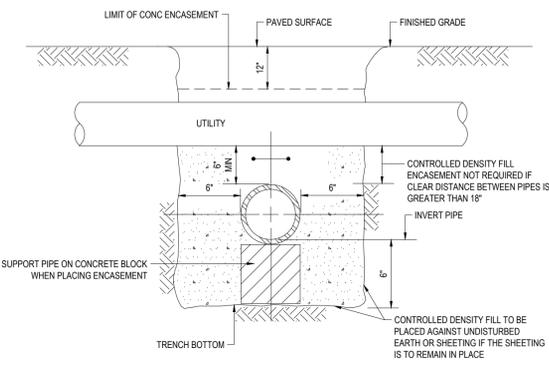
P:\11\211202\CADD\DRAWINGS\PLAN SET\CRITERION SITE PLAN\SW11202-LGHT-4A-1-24\LAYOUT1-C-803-LGHT-B.dwg



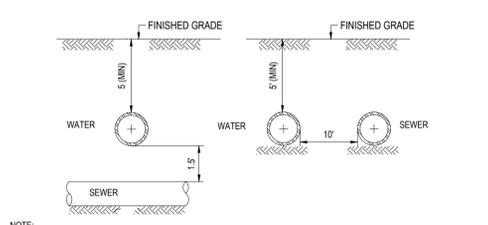
TYPICAL TRASH ENCLOSURE
NOT TO SCALE



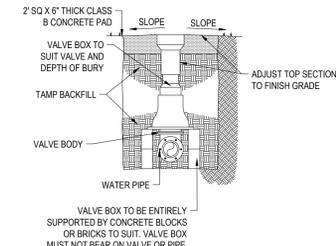
ACCESSIBLE RAMP TYPE C
NOT TO SCALE (S300.04xx_07/2022)



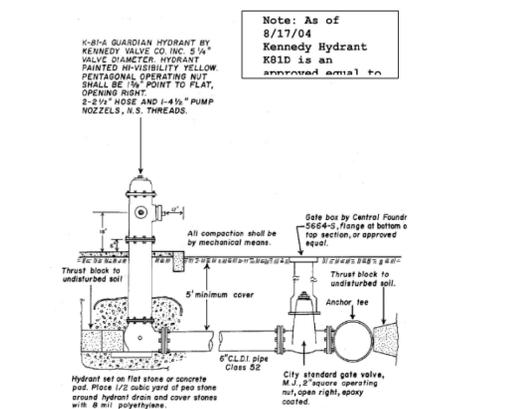
CONCRETE ENCASMENT AT UTILITY CROSSING
NOT TO SCALE



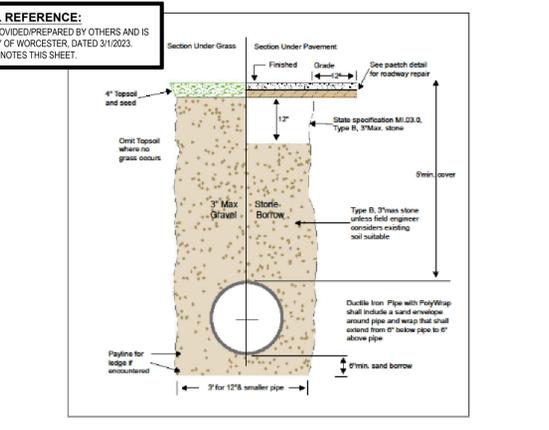
UTILITY CROSSING (WATER & SEWER)
NOT TO SCALE (S500.98xx_07/2022)



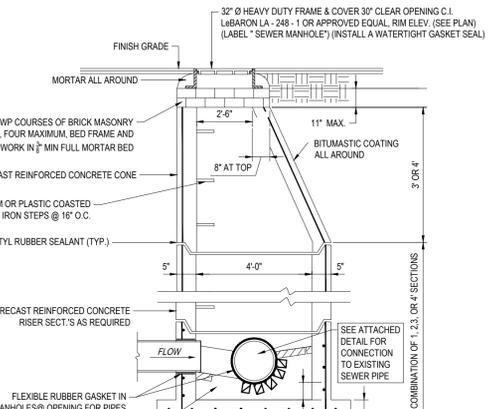
GATE VALVE
NOT TO SCALE (S500.03xx_07/2022)



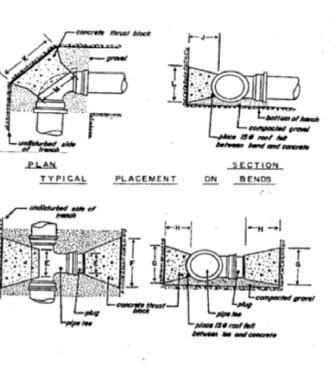
CITY OF WORCESTER TYPICAL HYDRANT DETAIL
NOT TO SCALE



CITY OF WORCESTER TYPICAL WATER TRENCH DETAIL
NOT TO SCALE



TYPICAL PRECAST CONCRETE SANITARY MANHOLE
NOT TO SCALE (S500.03xx_07/2022)



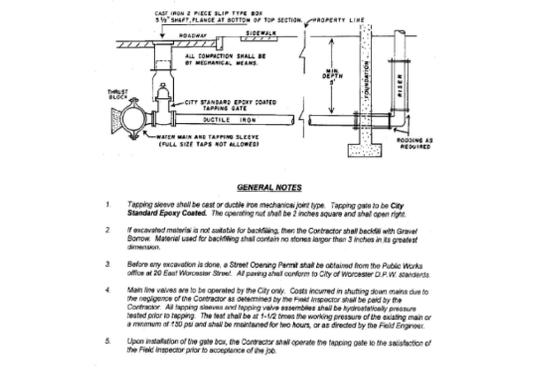
CITY OF WORCESTER TYPICAL THRUST BLOCKING DETAIL
NOT TO SCALE

Dimensions for Blocks behind Tees and Plugs - Horizontal Thrust

	E	F	G	H	Volume (CU. YD.)
6"	1' 0"	1' 6"	2' 0"	1' 0"	0.06
8"	1' 0"	2' 0"	2' 6"	1' 0"	0.09
12"	1' 0"	3' 0"	3' 6"	1' 3"	0.20
16"	1' 3"	4' 0"	4' 0"	1' 6"	0.40
24"	1' 6"	7' 0"	5' 0"	2' 0"	1.2

Dimensions for Blocks behind Bends - Horizontal Thrust

	1/4 (90°) Bend	1/8 (45°) Bend	1/16 (22 1/2°) Bend	1/32 (11 1/4°) Bend
6"	J 1' 0"	K 2' 0"	L 2' 0"	M 1' 0"
8"	J 1' 0"	K 2' 6"	L 3' 0"	M 1' 0"
12"	J 1' 3"	K 3' 6"	L 3' 0"	M 1' 0"
16"	J 1' 6"	K 4' 6"	L 3' 0"	M 1' 0"
24"	J 2' 0"	K 7' 0"	L 4' 6"	M 1' 6"



CITY OF WORCESTER TYPICAL LARGE SERVICE CONNECTION DETAIL
NOT TO SCALE

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2. WHERE AN ORIGINAL DETAIL BY OTHERS HAS BEEN MODIFIED, THE MODIFICATIONS ARE IDENTIFIED BY REVISION CLOUDS.
3. REFER TO OUTSIDE SOURCE NOTES ON SHEET C-102.
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DETAILS BY OTHERS DISCLAIMER



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FOR
CRITERION GROUP, LLC

WAREHOUSE DEVELOPMENT

135 BROOKS STREET
CITY OF WORCESTER
WORCESTER COUNTY
MASSACHUSETTS



352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900

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SHEET TITLE:

DETAIL SHEET

SHEET NUMBER:

C-903

REVISION 1 - 03/08/2024

P:\11\211202\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLAN\W211202-DET-4A-LAYOUT-C-903-DETAILS

