

West Wetlands

Rain Garden Constructed in 2020

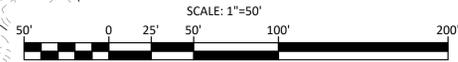
Southeast Wetlands

LEGEND

- TOPO**
 - XX--- MINOR CONTOUR
 - XX--- MAJOR CONTOUR
 - XX.X SPOT ELEVATION
- MON/TRAV**
 - IR/IP IRON PIPE/ROD
 - LPTK LEAD PLUG & TACK
 - EPLP ESCUTCHEON PIN LEAD PLUG
 - BFP BEANPOLE FOUND
 - PK BEANPOLE SET
 - DH DRILL HOLE
 - SB/DH BOUND W/DRILL HOLE FOUND
 - CB/DH BOUND W/DRILL HOLE SET
 - SB/CB BOUND
 - H/T HUB/TACK
 - M/M MAGNETIC MAIL
 - T/T TARGET
 - S/S SCRIBE
 - T/P TRAVERSE POINT
 - GPS GPS CONTROL
- SEWER**
 - S SEWER LINE
 - CS COMBINED SYSTEM LINE
 - SM SEWER MANHOLE
 - CO CLEANOUT
 - V VENT
- DRAIN**
 - D DRAIN LINE
 - CB CATCH BASIN
 - AD/RD AREA/ROOF DRAIN
 - CO CLEANOUT
 - OW OBSERVATION WELL
- WATER**
 - W WATER LINE
 - WM WATER MANHOLE
 - PIV POST INDICATOR VALVE
 - W/S WATER SHUTOFF
 - HYD HYDRANT
 - W/G WATER GATE
 - SPR SPRINKLER
 - WW WATER WELL
 - BWSC HW BWS/C H/H
 - IRR IRRIGATION CONTROL VALVE
 - STP STANDPIPE
 - SPIG SPIGOT
- ELEC**
 - E ELECTRIC LINE
 - OHW OVERHEAD WIRES
 - EM ELECTRIC MANHOLE
 - UP UTILITY POLE
 - UPL UTILITY POLE W/ LIGHT
 - GW GUY WIRE
 - ELEC ELECTRIC LIGHT
 - AC AIR CONDITIONER
 - FL FLOOD LIGHT
 - TR TRANSFORMER
 - GEN GENERATOR
 - TFC TRAFFIC CONTROL BOX
 - TS TRAFFIC SIGNAL
 - MTA MTA LINES
 - MTA MTA MANHOLE
 - TEL TELEPHONE LINES
 - TEL TELEPHONE MANHOLE
 - EMB EMERGENCY CALL BOX
 - TEL TELEPHONE BOOTH
 - FIB FIBER OPTIC BOX
 - CBL CABLE
 - CBL CABLE MANHOLE
 - SL STREET LIGHT LINES
 - LG LIGHT
 - DL DOUBLE LIGHT
- PHONE**
 - TEL TELEPHONE LINES
 - TEL TELEPHONE MANHOLE
 - EMB EMERGENCY CALL BOX
 - TEL TELEPHONE BOOTH
 - FIB FIBER OPTIC BOX
 - CBL CABLE
 - CBL CABLE MANHOLE
 - SL STREET LIGHT LINES
 - LG LIGHT
 - DL DOUBLE LIGHT
- CABLE**
 - CBL CABLE
 - CBL CABLE MANHOLE
 - SL STREET LIGHT LINES
 - LG LIGHT
 - DL DOUBLE LIGHT
- LIGHTS**
 - CBL CABLE
 - CBL CABLE MANHOLE
 - SL STREET LIGHT LINES
 - LG LIGHT
 - DL DOUBLE LIGHT
- GAS/STEAM**
 - G GAS LINES
 - GG GAS GATE
 - GS GAS SHUTOFF
 - GM GAS METER
 - VENT VENT
 - S STEAM LINES
 - SM STEAM MANHOLE
- REGULATORY**
 - W/WL WETLAND LIMIT
 - W/WL WETLAND FLAG
 - R/R/B RIVERFRONT BUFFER
 - W/WL WETLAND BUFFER
 - F/WL FEMA LIMIT
- SIT/DET**
 - CH CHAINLINK FENCE
 - WOOD WOOD FENCE
 - PM PARKING METER
 - BOULDER BOULDER
 - CAMERA CAMERA
 - BOLLARD/POST BOLLARD/POST
 - SOIL SOIL BORING
 - RR RAILROAD TRACKS
 - RR RAILROAD GATE
 - TRASH TRASH CAN
 - BASKETBALL BASKETBALL HOOP
 - SATELLITE SATELLITE DISH
 - TREELINE
 - CONIFEROUS CONIFEROUS TREE
 - DECIDUOUS DECIDUOUS TREE
 - SHRUB
 - BUSH

- NOTES:**
- 1) THE TOPOGRAPHY, SURFACE IMPROVEMENTS, AND SITE DETAIL DEPICTED HEREON WERE OBTAINED FROM AN ON-THE-GROUND INSTRUMENT SURVEY CONDUCTED BY BRENNAN CONSULTING, INC. BETWEEN JULY 3, 2025 AND AUGUST 19, 2025, AS WELL AS A UAV SURVEY PERFORMED BY BRENNAN CONSULTING, INC. ON JULY 3, 2025.
 - 2) LIMIT OF LIDAR SCANNING LINE SHOWN HEREON DEFINES THE BOUNDARY BETWEEN THE SURVEYS PERFORMED BY BRENNAN CONSULTING, INC. AND THE UTILIZATION OF USGS LIDAR DATA.
 - 3) KENOZA STREET RIGHT-OF-WAY BOUNDARY LINES AS SHOWN HEREON WERE DETERMINED FROM AN ON-THE-GROUND INSTRUMENT SURVEY CONDUCTED BY BRENNAN CONSULTING, INC. BETWEEN NOVEMBER 19, 2025 AND DECEMBER 1, 2025.
 - 4) THE HORIZONTAL DATUM IS BASED UPON THE MASSACHUSETTS COORDINATE SYSTEM, NAD83, MAINLAND ZONE AS DERIVED FROM GPS OBSERVATIONS.
 - 5) THE VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS DERIVED FROM GPS OBSERVATIONS.
 - 6) CONTOUR INTERVAL EQUALS ONE (1) FOOT.
 - 7) BY GRAPHIC REPRESENTATION ONLY, PROPERTY LIES WITHIN ZONE X (NO SCREEN); AREA OF MINIMAL FLOOD HAZARD, PER FIRM 25009C0091G, EFFECTIVE 07/08/2025.
 - 8) BENCHMARK INFORMATION:
 TBM BREN-1: X-CUT SET ON TOP OF CONCRETE RETAINING WALL WITH HANDRAIL AT SOUTHWEST CORNER OF SPORT AND FITNESS CENTER BUILDING. ELEVATION = 124.33
 TBM BREN-2: X-CUT SET ON NORTHEAST CORNER OF CONCRETE GENERATOR PAD AT SEWER PUMP STATION. ELEVATION = 123.95
 TBM BREN-3: X-CUT SET ON NORTHWEST BOLT OF LIGHT POLE BASE, EAST SIDE OF DRIVE. ELEVATION = 121.98
 TBM BREN-4: X-CUT SET ON NORTHWEST BOLT OF LIGHT POLE BASE, EAST SIDE OF DRIVE AT ENTRANCE TO OPPORTUNITY WORK. ELEVATION = 129.24
 - 9) ALL UNDERGROUND UTILITY INFORMATION DEPICTED HEREON WAS COMPILED FROM PLANS OF RECORD AND VISUAL FIELD EVIDENCE. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM THE AFOREMENTIONED RECORD PLANS AND ARE APPROXIMATE ONLY. BRENNAN CONSULTING, INC. CANNOT ASSUME RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES THAT ARE OMITTED OR INACCURATELY SHOWN ON SAID RECORD PLANS SINCE SUBSURFACE UTILITIES CANNOT BE VISIBLY VERIFIED. BEFORE PLANNING FUTURE CONNECTIONS, THE PROPER UTILITY ENGINEERING DEPARTMENT SHOULD BE CONSULTED AND THE ACTUAL LOCATION OF SUBSURFACE STRUCTURES SHOULD BE DETERMINED IN THE FIELD. CALL TOLL FREE, THE DIG SAFE CALL CENTER AT 1-888-344-7233 SEVENTY-TWO HOURS PRIOR TO EXCAVATION.
 - 10) THIS DOCUMENT IS AN INSTRUMENT OF SERVICE OF BRENNAN CONSULTING, INC. AND ISSUED TO OUR CLIENT FOR PURPOSES RELATED DIRECTLY AND SOLELY TO BRENNAN CONSULTING, INC. AND OUR SCOPE OF SERVICES UNDER CONTRACT TO OUR CLIENT FOR THIS PROJECT. ANY USE OR REUSE OF THIS DOCUMENT FOR ANY REASON BY ANY PARTY FOR PURPOSES UNRELATED DIRECTLY AND SOLELY TO SAID CONTRACT SHALL BE AT THE USER'S SOLE AND EXCLUSIVE RISK AND LIABILITY, INCLUDING LIABILITY FOR VIOLATION OF COPYRIGHT LAWS, UNLESS WRITTEN CONSENT IS PROVIDED BY BRENNAN CONSULTING, INC.

- REFERENCES:**
- | | |
|---|--|
| SOUTHERN ESSEX COUNTY REGISTER OF DEEDS | CITY OF HAVERHILL ENGINEERING DEPARTMENT |
| DEED BOOK 5154, PAGE 264 | PLAN 5964 |
| DEED BOOK 5556, PAGE 93 | PLAN 7593 |
| | PLAN 7922 |
| PLAN BOOK 115, PAGE 68 | PLAN 8111 |
| PLAN BOOK 154, PAGE 15 | PLAN 8198 |
| PLAN BOOK 155, PAGE 49 | PLAN 8570 |
| PLAN BOOK 199, PAGE 72 | |
| PLAN BOOK 344, PAGE 32 | |
| PLAN BOOK 388, PAGE 60 | |
| PLAN 168 OF 1942 | |
| PLAN 203 OF 1960 | |
| PLAN 92 OF 1963 | |



EXISTING CONDITIONS PLAN
 Northern Essex Community College
 Haverhill, MA

PREPARED FOR
Jones Architecture

DATE: 09-03-2025

SCALE: 1" = 50'

Brennan Consulting
 ENGINEERING • TRANSPORTATION • SURVEYING
 24 RAY AVENUE, BURLINGTON, MA
 PHONE: (781) 273-3434 FAX: (781) 273-3430

NO.	DATE	DESCRIPTION	BY

CHECKED BY: CE
 DRAWN BY: CG

PROJECT 25527

EX-1



Northern Essex
Community College

PROJECT NAME:
NECC ATHLETIC FIELD
RENOVATIONS

PROJECT #
P0033625

CLIENT:
NORTHERN ESSEX
COMMUNITY COLLEGE

DEVELOPMENT

DATE	02/26/2026
SCALE	1" = 40'
PROJECT NUMBER	2518
DRIVING TITLE	GRADING & DRAINAGE PLAN

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	02/26/2026
2	ISSUED FOR CONSTRUCTION	
3	AS BUILT	
4	CANCELLED	
5	REVISION	
6	REVISION	
7	REVISION	
8	REVISION	
9	REVISION	
10	REVISION	

CONSULTANT

Errenan Consulting

JONES ARCH

Jones Architecture, INC
10 Derby Square
Salem, MA 01970

978.744.5200
www.jonesarch.com

GROUP

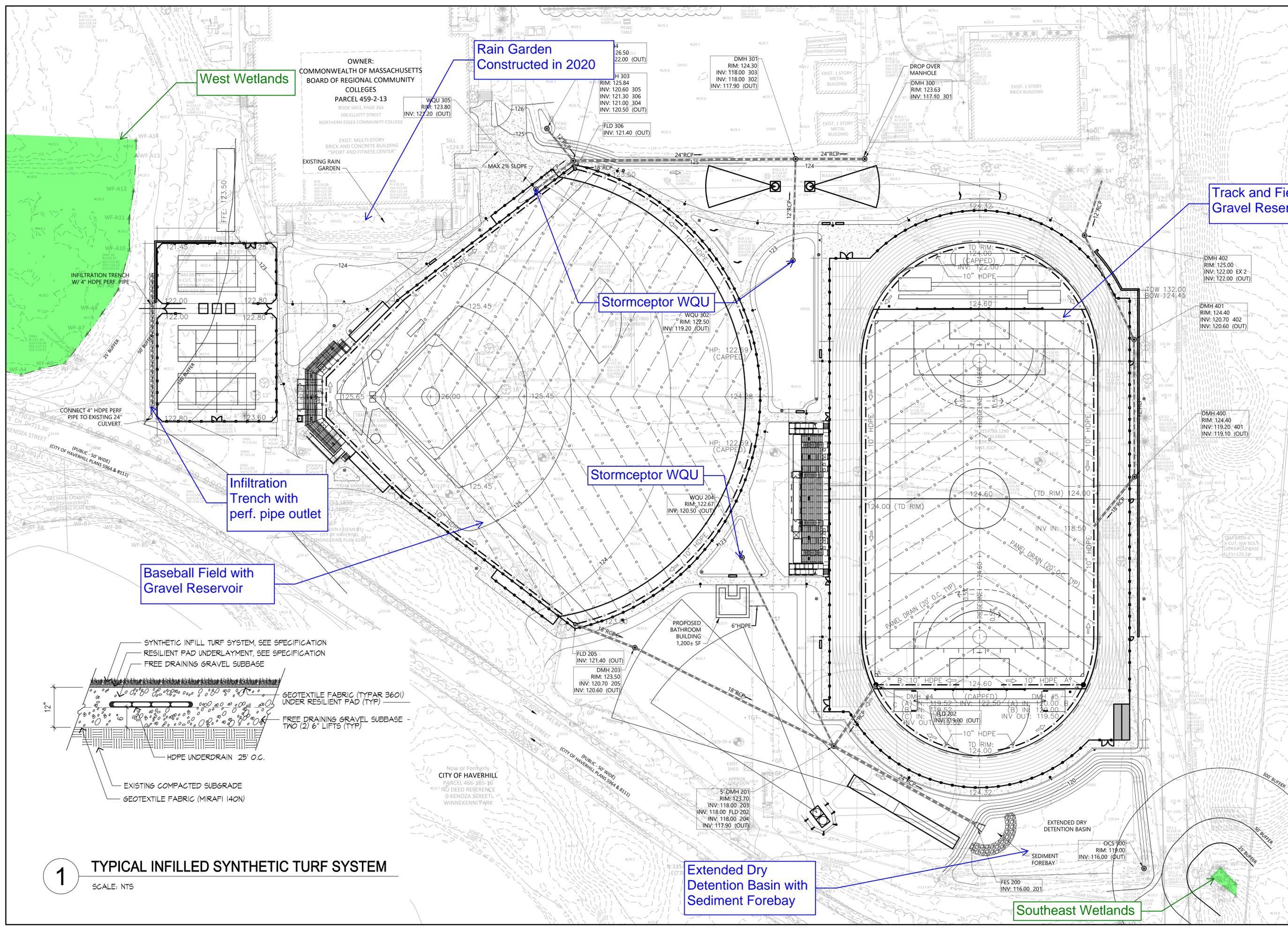
DATE
02/26/2026

PROJECT NUMBER
2518

SCALE
1" = 40'

DRIVING TITLE
GRADING & DRAINAGE PLAN

C-01



West Wetlands

Rain Garden
Constructed in 2020

Track and Field with
Gravel Reservoir

Stormceptor WQU

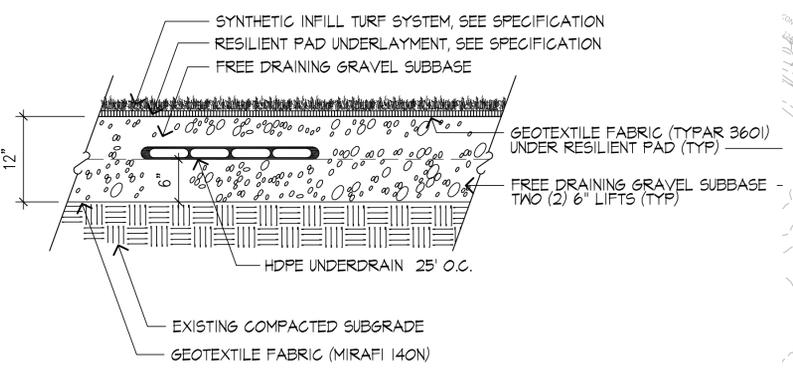
Stormceptor WQU

Infiltration
Trench with
perf. pipe outlet

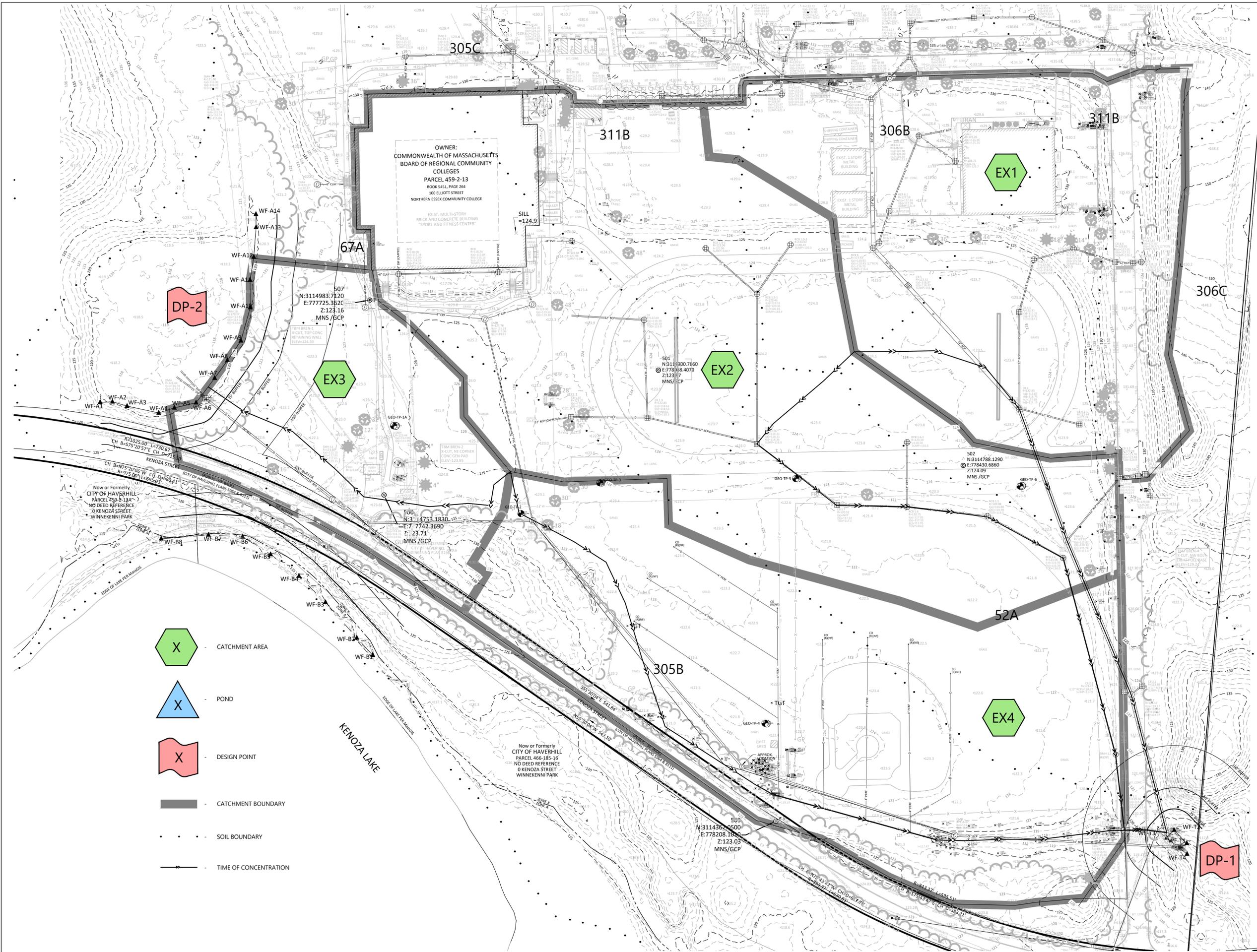
Baseball Field with
Gravel Reservoir

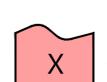
Extended Dry
Detention Basin with
Sediment Forebay

Southeast Wetlands



1 TYPICAL INFILLED SYNTHETIC TURF SYSTEM
SCALE: NTS



-  CATCHMENT AREA
-  POND
-  DESIGN POINT
-  CATCHMENT BOUNDARY
-  SOIL BOUNDARY
-  TIME OF CONCENTRATION

Now or Formerly
GREATER NEWBURYPORT
OPPORTUNITIES, INC.
PARCEL 466-155-18-1
BOOK 30039, PAGE 515
671 KENOZA STREET

EXISTING CONDITIONS DRAINAGE PLAN
Northern Essex Community College
Haverhill, MA

PREPARED FOR
Jones Architecture

DATE: 02-26-2026

Brennan Consulting
ENGINEERING • TRANSPORTATION • SURVEYING
24 RAY AVENUE, BURLINGTON, MA
PHONE: (781) 273-3434 FAX: (781) 273-3430

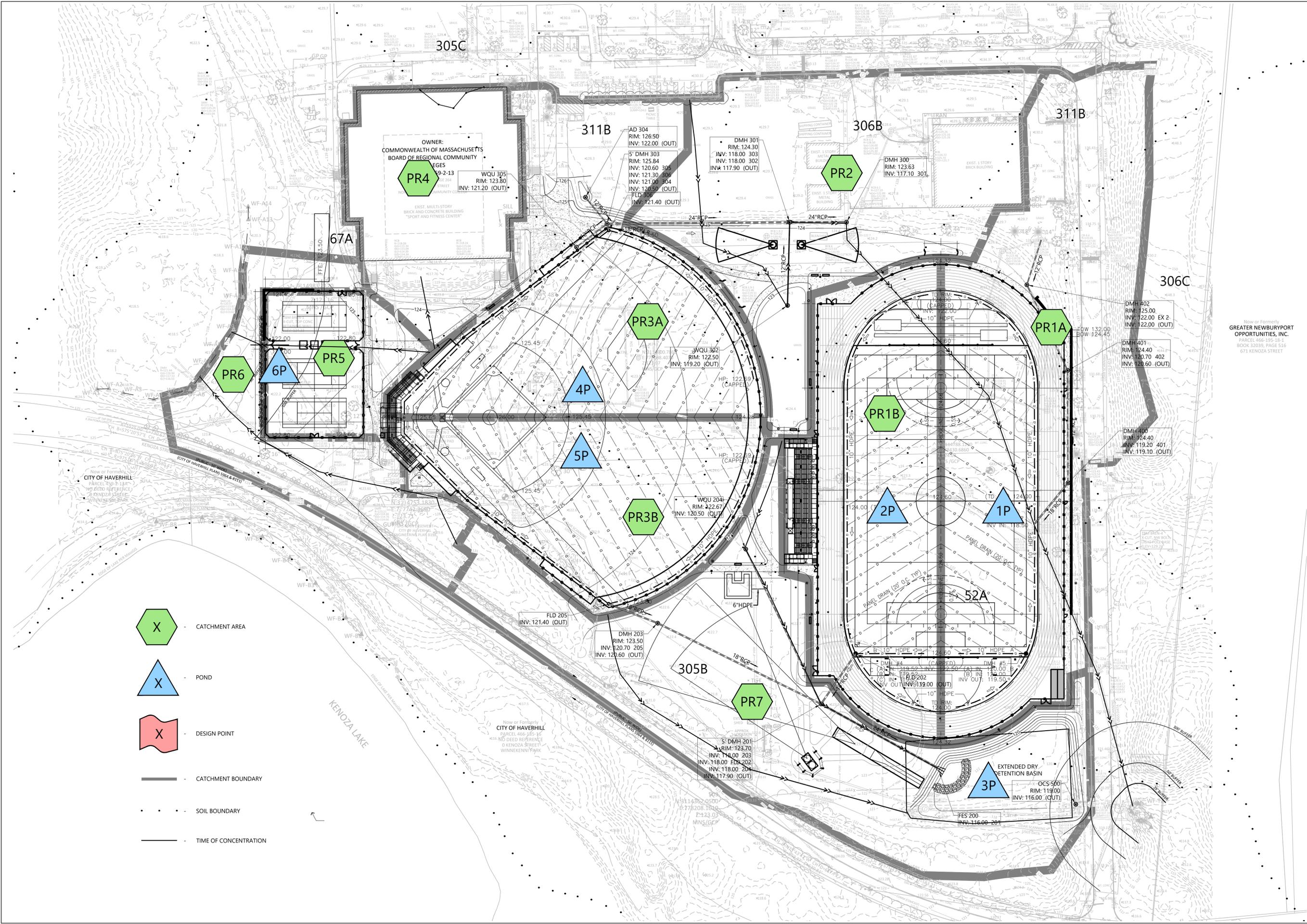
SCALE: 1" = 50'

NO.	DATE	DESCRIPTION	BY

CHECKED BY: CE
DRAWN BY: CG

PROJECT 25527

F-4



-  CATCHMENT AREA
-  POND
-  DESIGN POINT
-  CATCHMENT BOUNDARY
-  SOIL BOUNDARY
-  TIME OF CONCENTRATION

Now or Formerly
GREATER NEWBURYPORT
OPPORTUNITIES, INC.
PROJECT: 466-155-15-1
BOOK 30039, PAGE 545
671 KENOZA STREET

PROPOSED CONDITIONS DRAINAGE PLAN
Northern Essex Community College
Haverhill, MA
PREPARED FOR
Jones Architecture

Brennan Consulting
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24 RAY AVENUE, BURLINGTON, MA
PHONE: (781) 273-3434 FAX: (781) 273-3430

NO.	DATE	DESCRIPTION	BY

CHECKED BY: CE
DRAWN BY: CG
PROJECT 25527
F-5

DATE: 02-26-2026

SCALE: 1" = 50'



Northern Essex Community College

PROJECT NAME:
NECC ATHLETIC FIELD RENOVATIONS

PROJECT NUMBER:
P0033625

CLIENT:
NORTHERN ESSEX COMMUNITY COLLEGE

PHASE/ISSUE:
DESIGN DEVELOPMENT

ISSUE LOG:
DATE: 02/26/2026
ISSUE: DESIGN DEVELOPMENT (NOI SUBMISSION)

No. Date Revision

CONSULTANT:
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STAMP:
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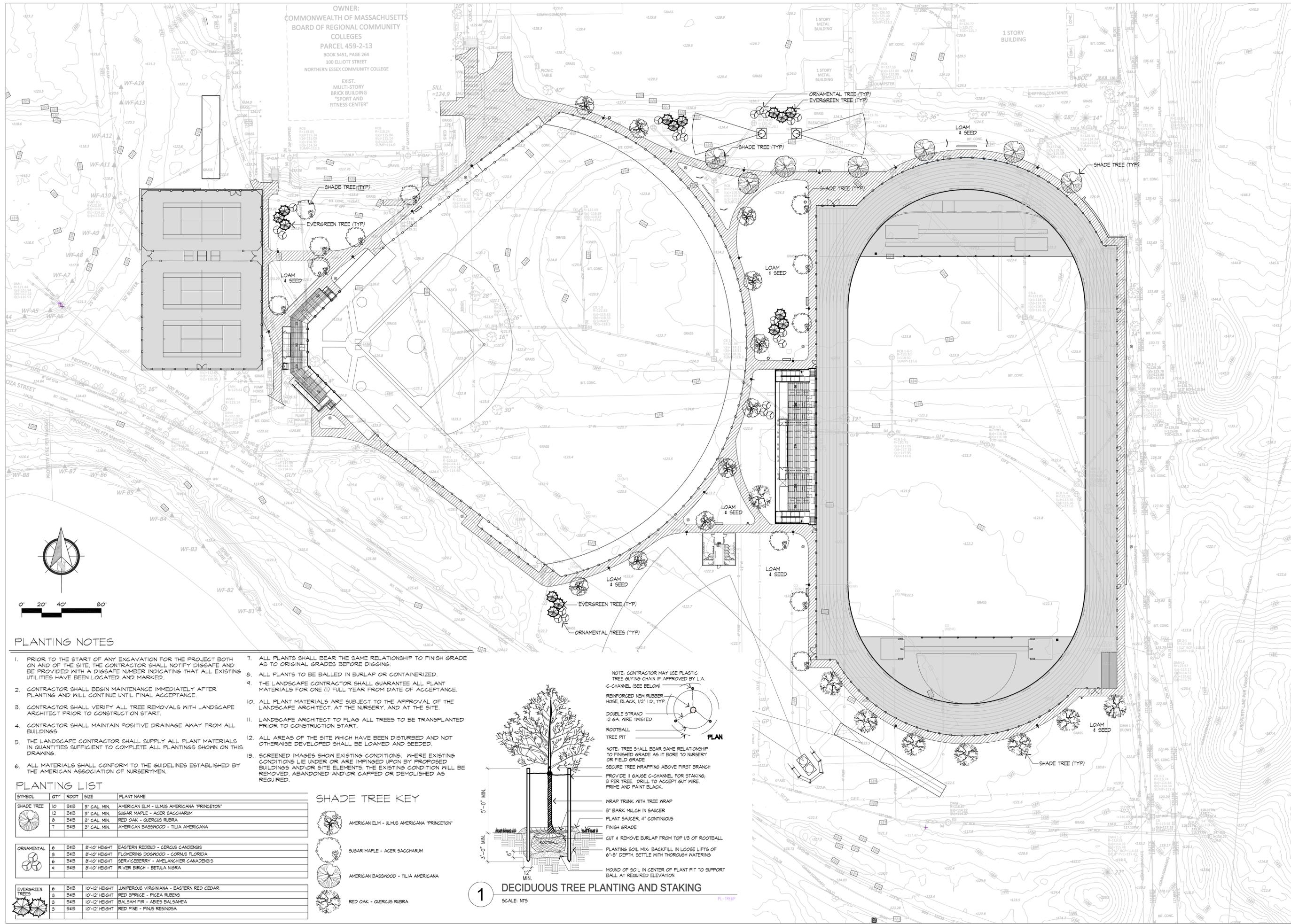


DATE:
02/26/2026

JA PROJECT NUMBER: 2518
SCALE: 1" = 40'

DRAWING TITLE:
PLANTING PLAN

L105



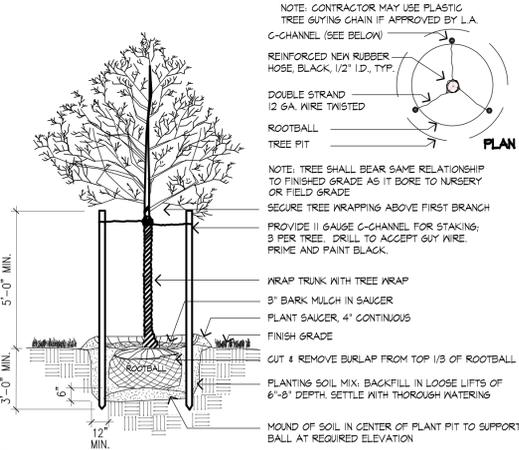
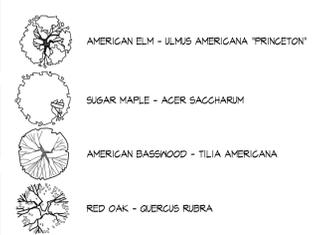
PLANTING NOTES

- PRIOR TO THE START OF ANY EXCAVATION FOR THE PROJECT BOTH ON AND OF THE SITE, THE CONTRACTOR SHALL NOTIFY DIGSAFE AND BE PROVIDED WITH A DIGSAFE NUMBER INDICATING THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED.
- CONTRACTOR SHALL BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING AND WILL CONTINUE UNTIL FINAL ACCEPTANCE.
- CONTRACTOR SHALL VERIFY ALL TREE REMOVALS WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION START.
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS.
- THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE ALL PLANTINGS SHOWN ON THIS DRAWING.
- ALL MATERIALS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISH GRADE AS TO ORIGINAL GRADES BEFORE DIGGING.
- ALL PLANTS TO BE BALLED IN BURLAP OR CONTAINERIZED.
- THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE (1) FULL YEAR FROM DATE OF ACCEPTANCE.
- ALL PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT, AT THE NURSERY, AND AT THE SITE.
- LANDSCAPE ARCHITECT TO FLAG ALL TREES TO BE TRANSPLANTED PRIOR TO CONSTRUCTION START.
- ALL AREAS OF THE SITE WHICH HAVE BEEN DISTURBED AND NOT OTHERWISE DEVELOPED SHALL BE LOAMED AND SEEDED.
- SCREENED IMAGES SHOW EXISTING CONDITIONS. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPINGED UPON BY PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED, ABANDONED AND/OR CAPPED OR DEMOLISHED AS REQUIRED.

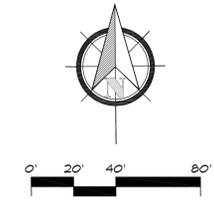
PLANTING LIST

SYMBOL	QTY	ROOT	SIZE	PLANT NAME
	10	B4B	8" GAL. MIN.	AMERICAN ELM - ULMUS AMERICANA 'PRINCETON'
	12	B4B	8" GAL. MIN.	SUGAR MAPLE - ACER SACCHARUM
	8	B4B	8" GAL. MIN.	RED OAK - QUERCUS RUBRA
	7	B4B	8" GAL. MIN.	AMERICAN BASSWOOD - TILIA AMERICANA
	6	B4B	8"-10" HEIGHT	EASTERN REDBUD - CERCUS GANDENSIS
	3	B4B	8"-10" HEIGHT	FLOWERING DOGWOOD - CORNUS FLORIDA
	6	B4B	8"-10" HEIGHT	SERVICEBERRY - AMELANCHIER CANADENSIS
	4	B4B	8"-10" HEIGHT	RIVER BIRCH - BETULA NIGRA
	6	B4B	10"-12" HEIGHT	JUNIPERUS VIRGINIANA - EASTERN RED CEDAR
	3	B4B	10"-12" HEIGHT	RED SPRUCE - PICEA RUBENS
	3	B4B	10"-12" HEIGHT	BALSAM FIR - ABIES BALSAEAMA
	3	B4B	10"-12" HEIGHT	RED PINE - PINUS RESINOSA

SHADE TREE KEY

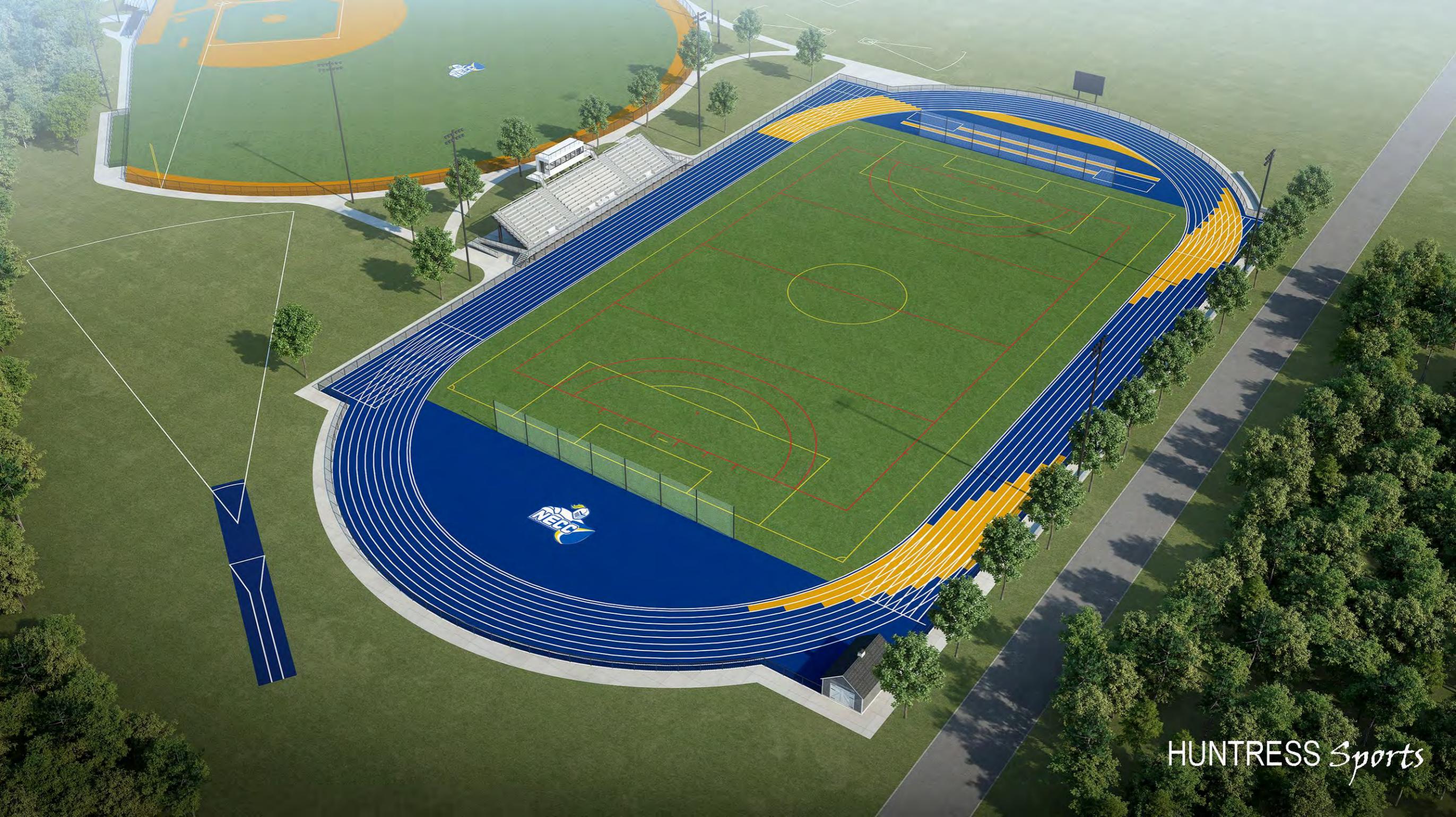


1 DECIDUOUS TREE PLANTING AND STAKING
SCALE: NTS

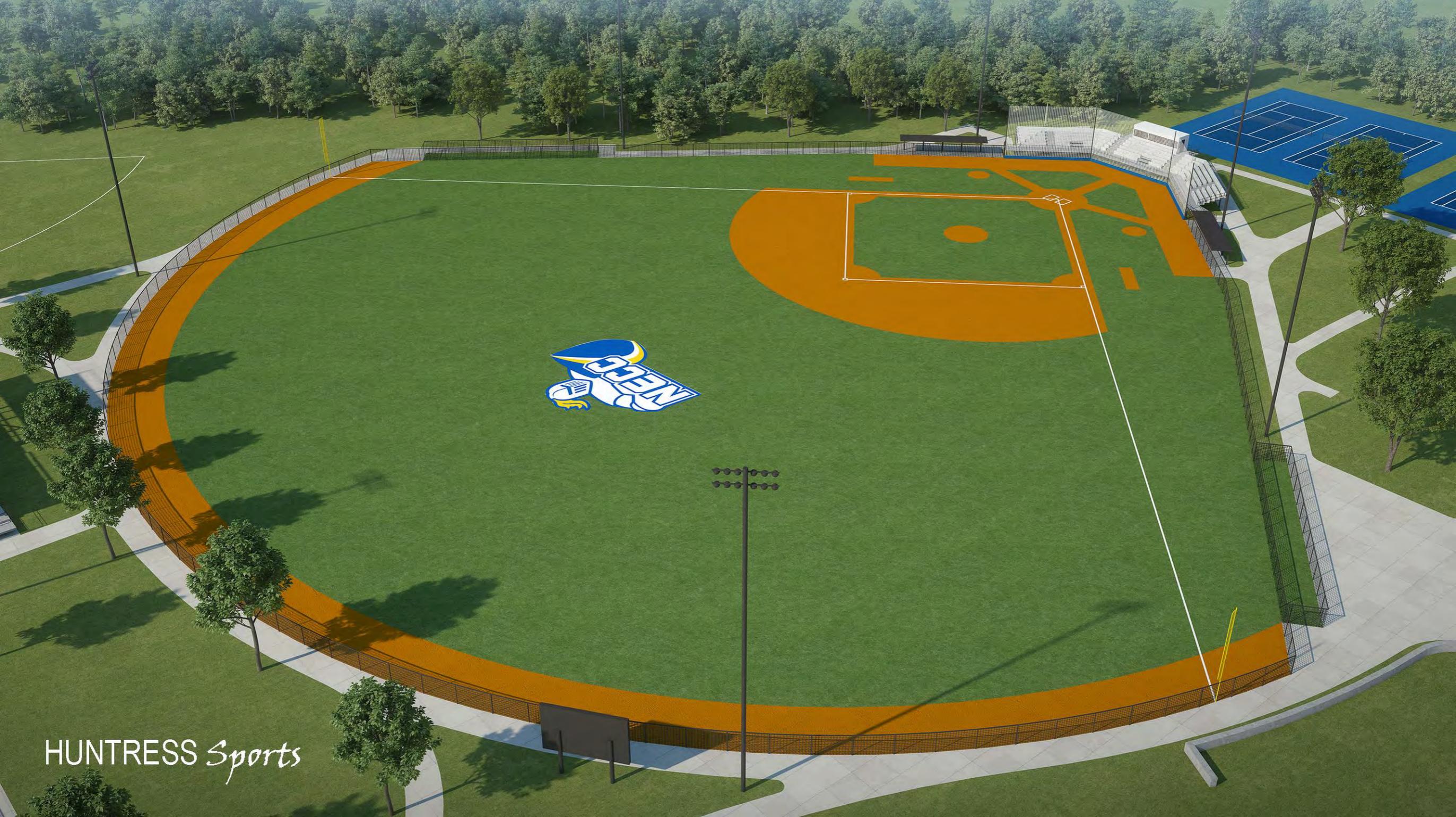




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