

2024 Green Infrastructure Upgrades

Forest Home Avenue School, Site #173

1516 W Forest Home Avenue
Milwaukee, WI 53204

JANUARY 25, 2024

100% CONSTRUCTION DOCUMENTS

MPS Project Number: 8317
SmithGroup Project Number: 14895

Table of Contents

Sheet Number	Sheet Title
G001	COVER SHEET
G002	GENERAL NOTES AND LEGEND
CV100	EXISTING CONDITIONS
CV101	EXISTING CONDITIONS
CE100	SITE PREPARATION AND EROSION CONTROL
CS100	SITE LAYOUT
CG100	GRADING PLAN
CU100	UTILITIES PLAN
CP100	PAVEMENT MARKINGS PLAN
CE500	EROSION CONTROL DETAILS
CS500	SITE DETAILS
CS501	SITE DETAILS
CS502	SITE DETAILS
CS503	SITE DETAILS
CS504	SITE DETAILS
CU500	UTILITY DETAILS
CU501	UTILITY DETAILS
CU502	UTILITY DETAILS
CP500	PAVEMENT MARKING DETAILS
CP501	PAVEMENT MARKINGS DETAILS
L300	PLANTING PLAN
L301	PLANTING PLAN ENLARGEMENTS
L500	PLANTING NOTES AND DETAILS
L501	PLANTING DETAILS
L502	PLANTING SCHEDULE
L503	PLANTING SCHEDULE

Prepared for:



Milwaukee Public Schools
5225 W. Vliet Street
Milwaukee, WI 53208
Switchboard: (414) 475-8393

Prepared by:

SMITHGROUP

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1836 W. FOND DU LAC AVE.
MILWAUKEE, WI 53205
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DEDUCT ALTERNATES

DEDUCT ALTERNATE 1 - WAUSAU BENCHES
BASE BID INCLUDES THE PREPARATION, INSTALLATION, AND LANDSCAPING OF THE WAUSAU CIRCULAR PLANTER AND THE RETAINING WALL BENCHES AS SHOWN ON THE PLANS. DEDUCT ALTERNATE INCLUDES:

- NO CIRCULAR CONCRETE PLANTER, TREES, AND VEGETATION. THE AREA IS MILLED AND OVERLAY MATCHING SURROUNDING SURFACE AND PAINTED WITH MPS ALPHABET GAME AS INDICATED ON THE PLAN.
- NO CONCRETE RETAINING WALL BENCH OR FOUNDATION. THE AREA IS GRADED AT A 5H:1V MAXIMUM AND SODDED TO THE PERMEABLE PAVERS.

DEDUCT ALTERNATE 2 - OUTDOOR CLASSROOM C
BASE BID INCLUDES THE PREPARATION, INSTALLATION, AND LANDSCAPING OF THE OUTDOOR CLASSROOM C. DEDUCT ALTERNATE INCLUDES:

- NO REMOVAL OF ASPHALT, NO NEW TOPSOIL AND LANDSCAPING OR TREES, AND NO CHAIN LINK FENCE. THE SALVAGED PICNIC TABLES TO BE PLACED ADJACENT TO THE STORAGE SHED UNDER THE DIRECTION OF MPS.

DEDUCT ALTERNATE 3 - FRONT ENTRANCE IMPROVEMENTS
BASE BID INCLUDES THE PREPARATION, INSTALLATION, AND LANDSCAPING OF THE FRONT ENTRANCE IMPROVEMENTS. DEDUCT ALTERNATE INCLUDES:

- NO REMOVAL OF ASPHALT WITHIN THE TOT-LOT FENCE OR OUTSIDE OF THE TOT-LOT FENCE. NO MILLING OF ASPHALT, NO NEW TOPSOIL AND LANDSCAPING OR TREES, NO CONCRETE PADS FOR BENCHES, NO NEW BENCHES, NO NEW ASPHALT OVERLAY, AND NO PAINTED PLAY.



PROJECT VICINITY MAP



PROJECT LOCATION MAP



ABBREVIATIONS

Table of abbreviations with columns A through J, listing various construction terms and their corresponding symbols or units.

SITE PREPARATION SYMBOLS

Diagram showing symbols for site preparation including property lines, limits of construction, tree removal, and various pavement and surface treatments.

GRADING SYMBOLS

Diagram showing symbols for grading including existing and proposed contours, spot elevations, drainage slopes, and breaklines.

GENERAL NOTES

- List of 16 general notes providing project instructions, including site verification, utility coordination, and construction standards.

2024 GREEN INFRASTRUCTURE UPGRADES FOREST HOME AVENUE SCHOOL



SMITHGROUP

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Table with columns ISSUED FOR, REV, and DATE. Row 1: 100% CD, 01/25/2024

SEALS AND SIGNATURES

SITE ADDRESS: SITE # 173 1516 W FOREST HOME AVENUE MILWAUKEE, WI 53204

DRAWING TITLE: GENERAL NOTES AND LEGEND

SCALE: 14895

PROJECT NUMBER: 8317, DIVISION 1

MPS PROJECT NUMBER: G002

DRAWING NUMBER

LAYOUT AND MATERIAL SYMBOLS

Diagram showing symbols for layout and materials including asphalt and concrete pavements, synthetic turf, chain link fence, and various benches and planters.

UTILITY SYMBOLS

Diagram showing symbols for utility structures including storm sewers, cleanouts, catch basins, and drainage swales.

PLANTING SYMBOLS

Diagram showing symbols for planting including existing trees, lawn sod, various seed mixes, bioswale plants, shrubs, and perennials.

PLAT OF SURVEY

CLIENT

MPS c/o Smith Group

SITE ADDRESS

1516 West Forest Home Avenue, City of Milwaukee, County of Milwaukee, Wisconsin

LEGAL DESCRIPTION

Lots 3 through 30 in Block 15 and the vacated alley, inclusive, all in Burnham, Rogers & Becher's Subdivision being a part of the Southeast 1/4 of the Northeast 1/4 of Section 6, Township 6 North, Range 22 East, located in the City of Milwaukee, Milwaukee County, Wisconsin.

BASIS OF BEARINGS

Bearings are referenced to the Wisconsin State Plane Coordinate System (South Zone) NAD83, in which the South line of the NE 1/4 bears N89°54'40"E.

VERTICAL DATUM

Vertical Datum is based on National Geodetic Vertical Datum of 1988

DIGGERS HOTLINE

Evidence of underground utilities existing on or serving the surveyed property as determined by markings requested by the surveyor pursuant to a Diggers Hotline One-call center utility locate. Ticket Number 20233723911 and 20233723924. However, lacking excavation, the exact location of underground features cannot be accurately, completely, and reliably depicted. Client understands only utility lines with imbedded electric tracer wires or utilities made of materials capable of electric connectivity can be marked at the surface and located. Depth of utilities may prohibit their location even with electric connectivity.

LAND AREA

The Land Area of the subject property is 166,589 square feet or 3.8244 acres.

NOTE:

ALL RECORDED EASEMENTS MAY NOT BE SHOWN.

2024 GREEN INFRASTRUCTURE UPGRADES FOREST HOME AVENUE SCHOOL

Owner:



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ISSUED FOR	REV	DATE
100% CD		01/25/2024

SEALS AND SIGNATURES

SITE ADDRESS

SITE # 173
1516 W FOREST HOME AVENUE
MILWAUKEE, WI 53204

DRAWING TITLE

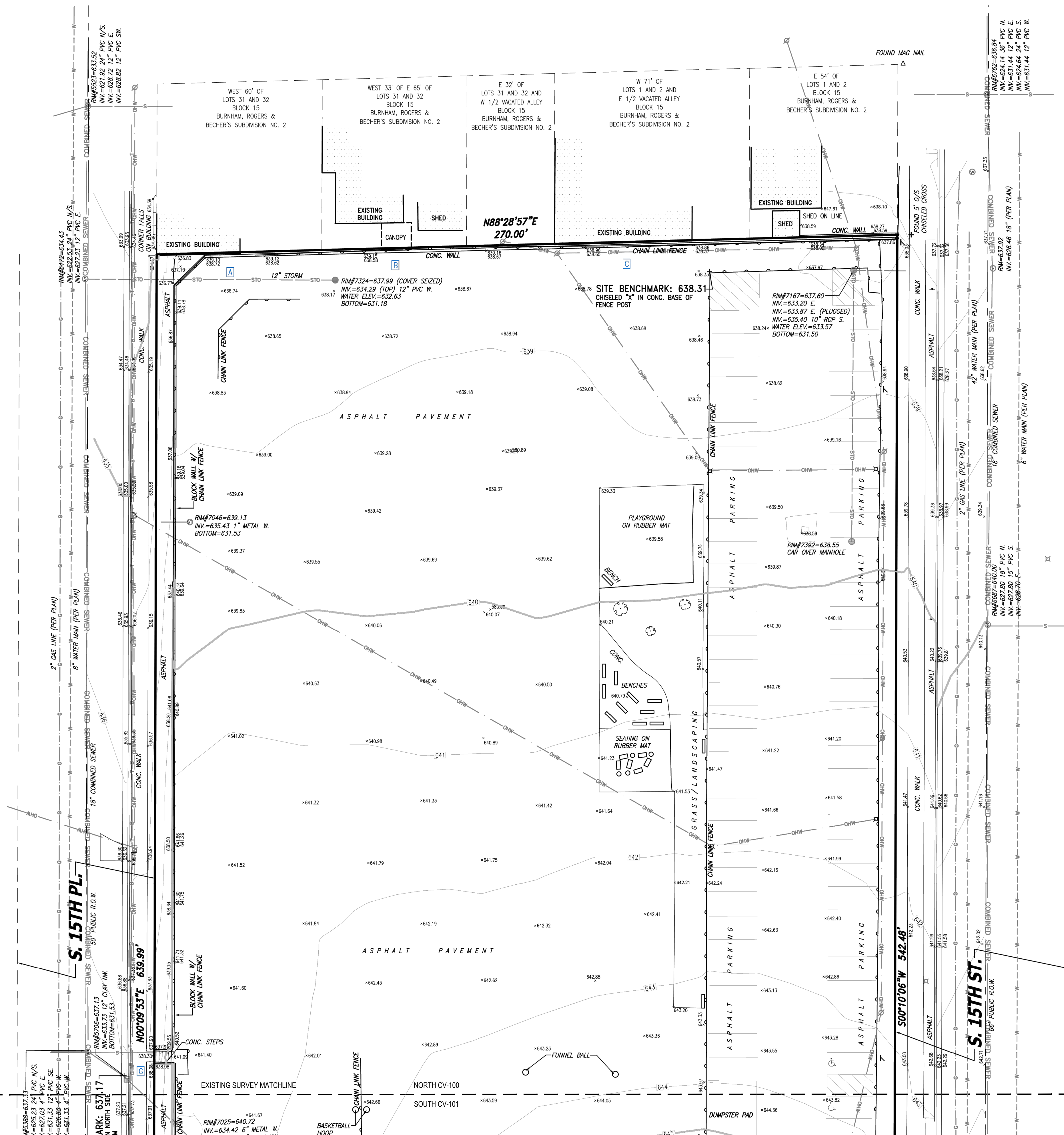
EXISTING CONDITIONS

SCALE 1/8" = 1'-0" 14895

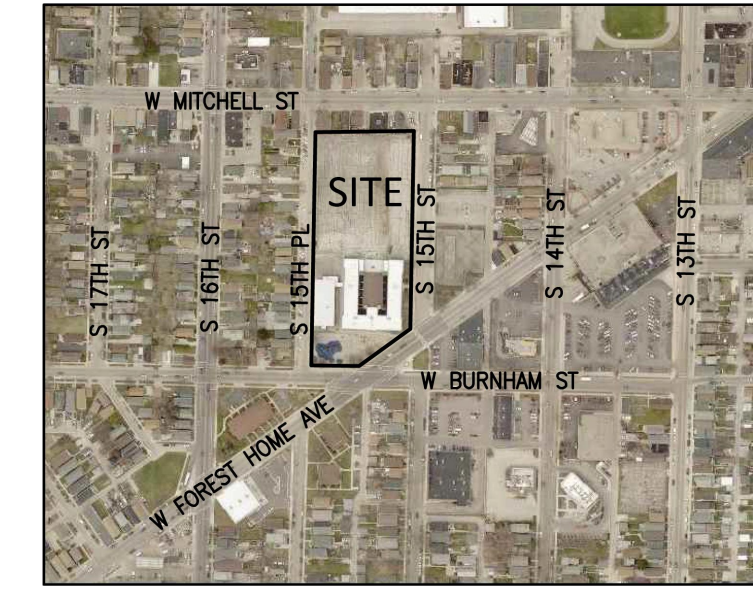
PROJECT NUMBER 8317, DIVISION 1

MPS PROJECT NUMBER

DRAWING NUMBER CV100

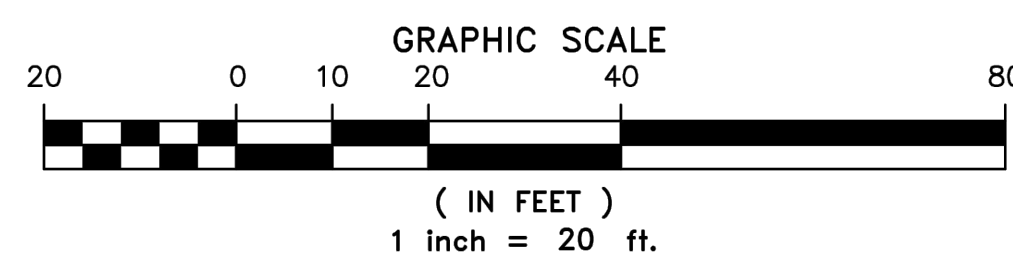
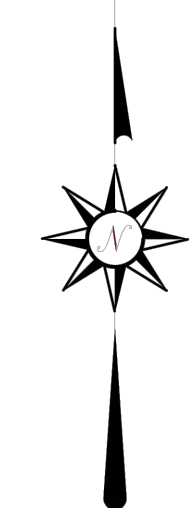


VICINITY MAP



ENCROACHMENT TABLE

A	BUILDING 0.4' SOUTH OF PROPERTY LINE
B	CANOPY 0.5' SOUTH OF PROPERTY LINE
C	BUILDING 0.3' SOUTH OF PROPERTY LINE
D	FENCE 0.3' EAST OF PROPERTY LINE
E	WALL 0.3' SOUTH OF PROPERTY LINE
F	WALL 0.9' WEST OF PROPERTY LINE
G	WALL 0.3' WEST OF PROPERTY LINE



I certify that I have surveyed the above described property (Property), and the above map is correct to the best of my professional knowledge and belief and shows the size and location of the Property, its exterior boundaries, the location and dimensions of all visible structures thereon, boundary fences, apparent easements and roadways and visible encroachments, if any. This survey is made for the exclusive use of the present owners of the Property, and also those who purchase, mortgage, or guarantee the title thereto, within one (1) year from date hereof.

DANIEL E. BEDNAR
S-2812
GERMANTOWN, WI
Professional Land Surveyor
Registration Number S-2812

Date: October 24, 2023

PLAT OF SURVEY

CLIENT
MPS c/o Smith Group
SITE ADDRESS
1516 West Forest Home Avenue, City of Milwaukee, County of Milwaukee, Wisconsin

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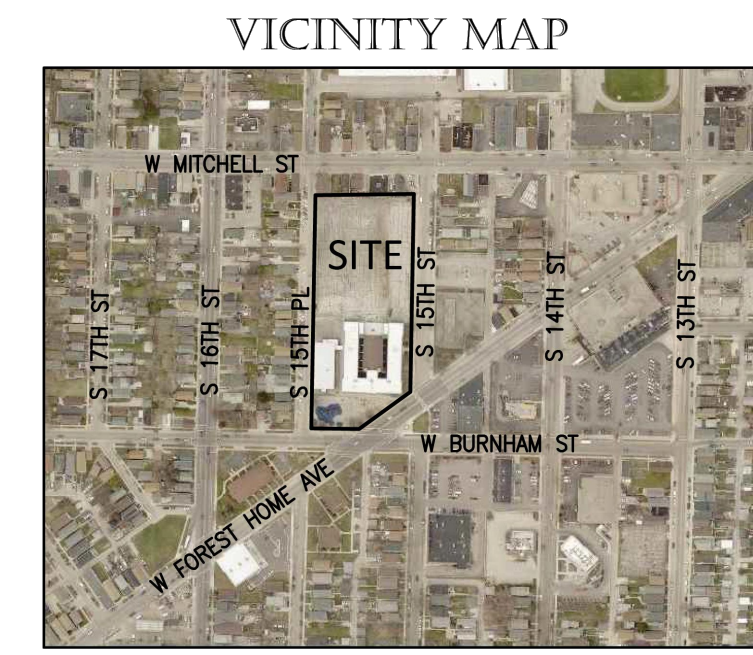
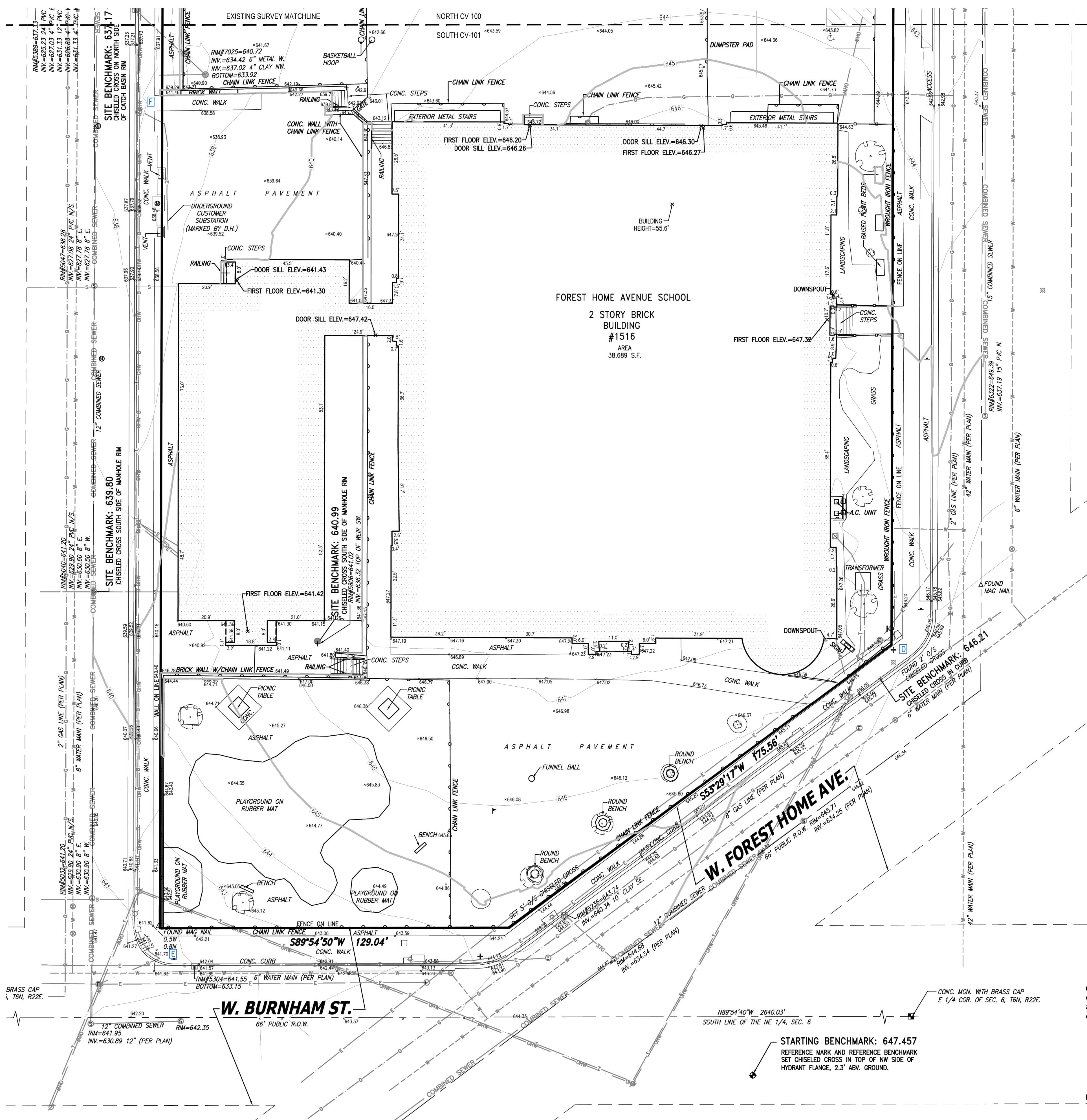
2024 GREEN INFRASTRUCTURE UPGRADES FOREST HOME AVENUE SCHOOL

Owner:
**MPS MILWAUKEE
PUBLIC SCHOOLS**

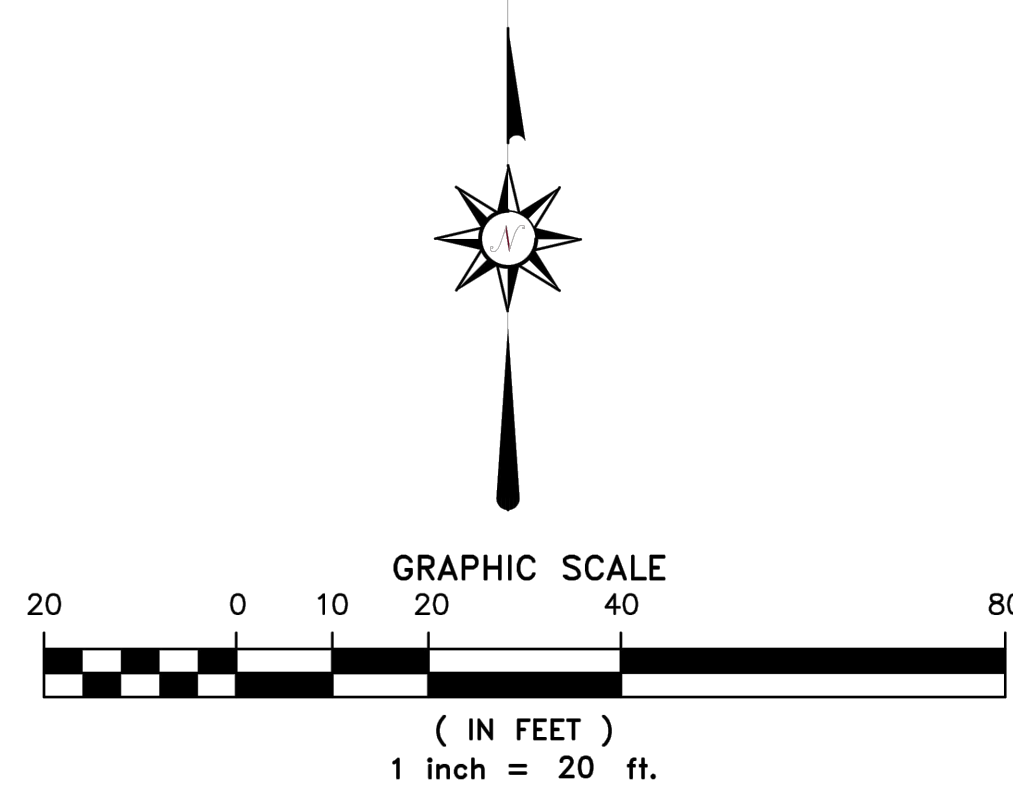
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A	BUILDING 0.4' SOUTH OF PROPERTY LINE
B	CANOPY 0.5' SOUTH OF PROPERTY LINE
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DANIEL E. BEDNAR
S-2812
GERMANTOWN, WI
Professional Land Surveyor
Registration Number S-2812

Date: October 24, 2023

ISSUED FOR	REV	DATE
100% CD		01/25/2024

SEALS AND SIGNATURES

SITE ADDRESS
SITE # 173
1516 W FOREST HOME AVENUE
MILWAUKEE, WI 53204

DRAWING TITLE
EXISTING CONDITIONS

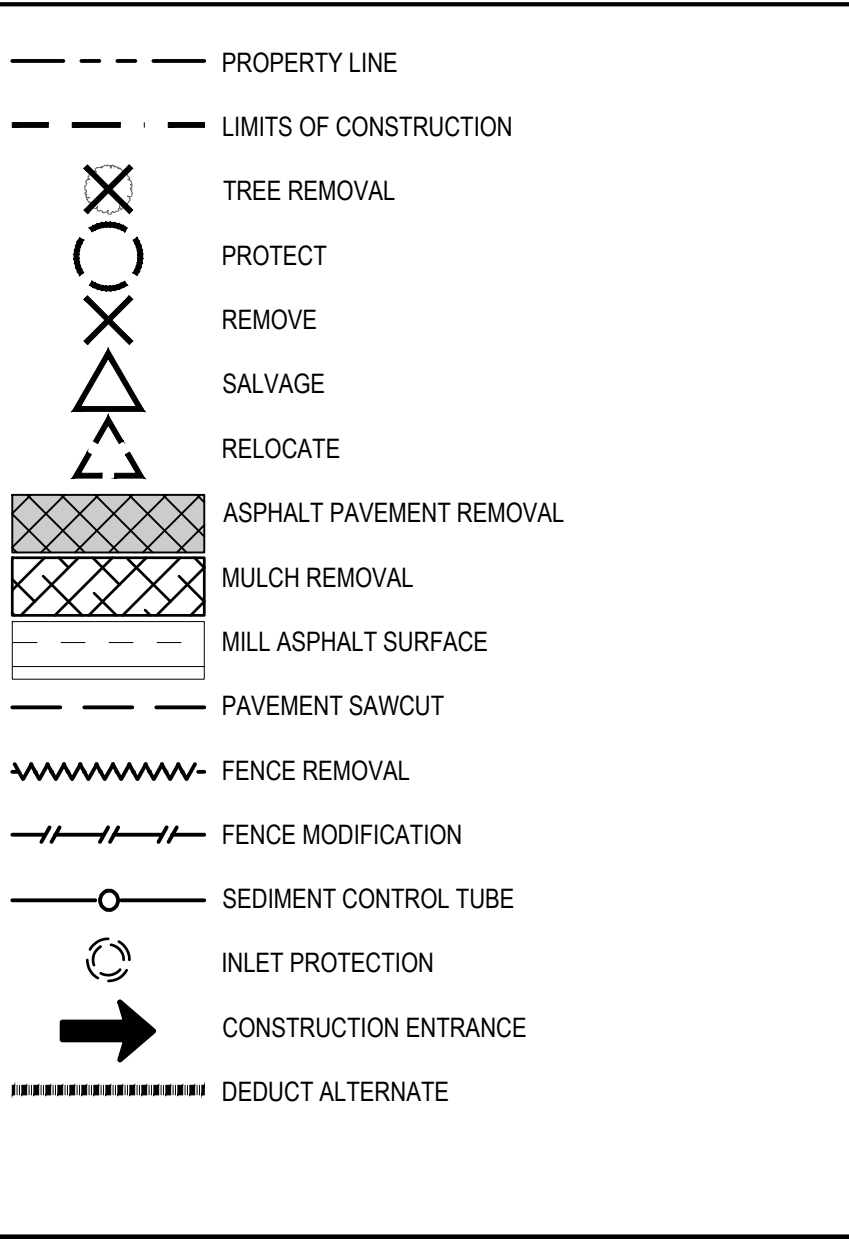
SCALE
PROJECT NUMBER
MPS PROJECT NUMBER
DRAWING NUMBER

14895
8317, DIVISION-1
CV101

EROSION CONTROL NOTES

- 1. POST WDNR CERTIFICATE OF PERMIT COVERAGE ON SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED...
2. KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT...
3. ALL MEASURES INDICATED ON PLANS SHALL BE CONSIDERED MINIMUMS...
4. SUBMIT PLAN REVISIONS OR AMENDMENTS TO THE WDNR AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION...
5. INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL SHALL BE ROUTINE (ONCE PER WEEK AND AFTER EACH 1/2 INCH RAINFALL) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES...
6. CONTRACTOR SHALL KEEP RECORDS ON SITE OF ALL EROSION CONTROL INSPECTIONS AND AVAILABLE FOR REVIEW BY INSPECTORS WHEN REQUESTED...
7. INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED...
8. WHEN POSSIBLE, PRESERVE EXISTING VEGETATION (ESPECIALLY ADJACENT TO SURFACE WATERS), MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE...
9. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE WISCONSIN DNR EROSION CONTROL & SEDIMENT CONTROL TECHNICAL STANDARDS...
10. INSTALL PERIMETER EROSION CONTROLS AND STABILIZED CONSTRUCTION ENTRANCES AT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS PRIOR TO ANY LAND-DISTURBING ACTIVITIES...
11. INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA AND/OR IMMEDIATELY UPON INLET INSTALLATION...
12. STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE EXPOSED AREA...
13. NOTIFY ENGINEER IF DEWATERING IS SCHEDULED TO OCCUR IN AREAS OF SOIL AND/OR GROUNDWATER CONTAMINATION...
14. PROVIDE ANTI-SCOUR PROTECTION AND MAINTAIN NON-EROSIVE FLOW DURING DEWATERING...
15. INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD SILT FENCE...
16. REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY...
17. INSTALL AND MAINTAIN SEDIMENT CONTROL TUBES...
18. IMMEDIATELY STABILIZE STOCKPILES AND INSTALL EROSION CONTROLS ON THE DOWN STREAM SIDE OF STOCKPILES...
19. ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN SEVEN (7) DAYS SHALL BE STABILIZED WITH TEMPORARY STABILIZATION METHODS...
20. THE MINIMUM SEEDING RATE FOR TEMPORARY SEEDING IN TURF AREAS IS 5 POUNDS GRASS SEED MIX PER 1000 SQUARE FEET...
21. ALL DISTURBED AREAS SHALL BE SEEDDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES...
22. INCIDENTAL MUD TRACKING OFF-SITE ONTO ADJACENT THOROUGHFARES SHALL BE CLEANED UP AND REMOVED BY THE END OF EACH WORKING DAY...
23. CONTRACTOR IS RESPONSIBLE FOR PREVENTING EXCESSIVE DUST FROM LEAVING THE CONSTRUCTION SITE...
24. PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS...
25. COORDINATE WITH OWNER'S REPRESENTATIVE TO UPDATE THE LAND DISTURBANCE PERMIT...
26. CUT AND FILL SLOPES SHALL BE NO GREATER THAN 3:1...
27. ALL SLOPES EXCEEDING 4:1 SHALL BE STABILIZED WITH CLASS 1 URBAN, TYPE B EROSION MATTING...
28. CONTRACTOR SHALL WATER ALL NEWLY SEEDED AREAS DURING THE SUMMER MONTHS...
29. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES, AS REQUESTED BY STATE INSPECTORS...
30. CONTRACTOR SHALL REMOVE EROSION CONTROL MEASURES AFTER SITE CONSTRUCTION IS COMPLETE...
31. CONTRACTOR SHALL FILE A NOTICE OF TERMINATION UPON VEGETATIVE STABILIZATION IN ACCORDANCE WITH WDNR REQUIREMENTS.

LEGEND



KEYED NOTES

- A PERIMETER CHAIN LINK FENCE TO BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES...
B REMOVE AND DISPOSE OF CHAIN LINK FENCE AND FOUNDATIONS TO FULL DEPTH...
C REMOVE TOP 6" MESH OF CHAIN LINK FENCE...
D APPROXIMATE LOCATION OF EXISTING EXERCISE EQUIPMENT...
E OUTDOOR CLASSROOM TO REMAIN IN PLACE...
F EXISTING TOT-LOT AND RUBBER SURFACE TO REMAIN IN PLACE...
G FLAG POLE AND FUNNEL BALL TO REMAIN IN PLACE...
H RELOCATE EXISTING FUNNEL BALL...
I EXISTING PICNIC TABLE AND CONCRETE PAD TO REMAIN IN PLACE...
J CHAIN LINK FENCE TO REMAIN AROUND TOT-LOT...
K BASKETBALL AND FUNNEL BALL FOUNDATIONS REMOVED...
L REMOVE AND DISPOSE OF MULCH SURFACE...
M SALVAGE PICNIC TABLES AND REINSTALL IN CLASSROOM C...
N UNDERGROUND ELECTRICAL VAULT...
O CIRCULAR BENCHES AROUND TREES...
P MAINTAIN 12-24" ASPHALT PERIMETER...
Q PERIMETER RETAINING WALL...
R RELOCATE FREE STANDING BENCH...
S CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND REPAIRING ANY DAMAGES ACQUIRED DURING CONSTRUCTION ACTIVITIES...

2024 GREEN INFRASTRUCTURE UPGRADES FOREST HOME AVENUE SCHOOL



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Table with columns: ISSUED FOR, REV, DATE. Row 1: 100% CD, 01/25/2024

SEALS AND SIGNATURES

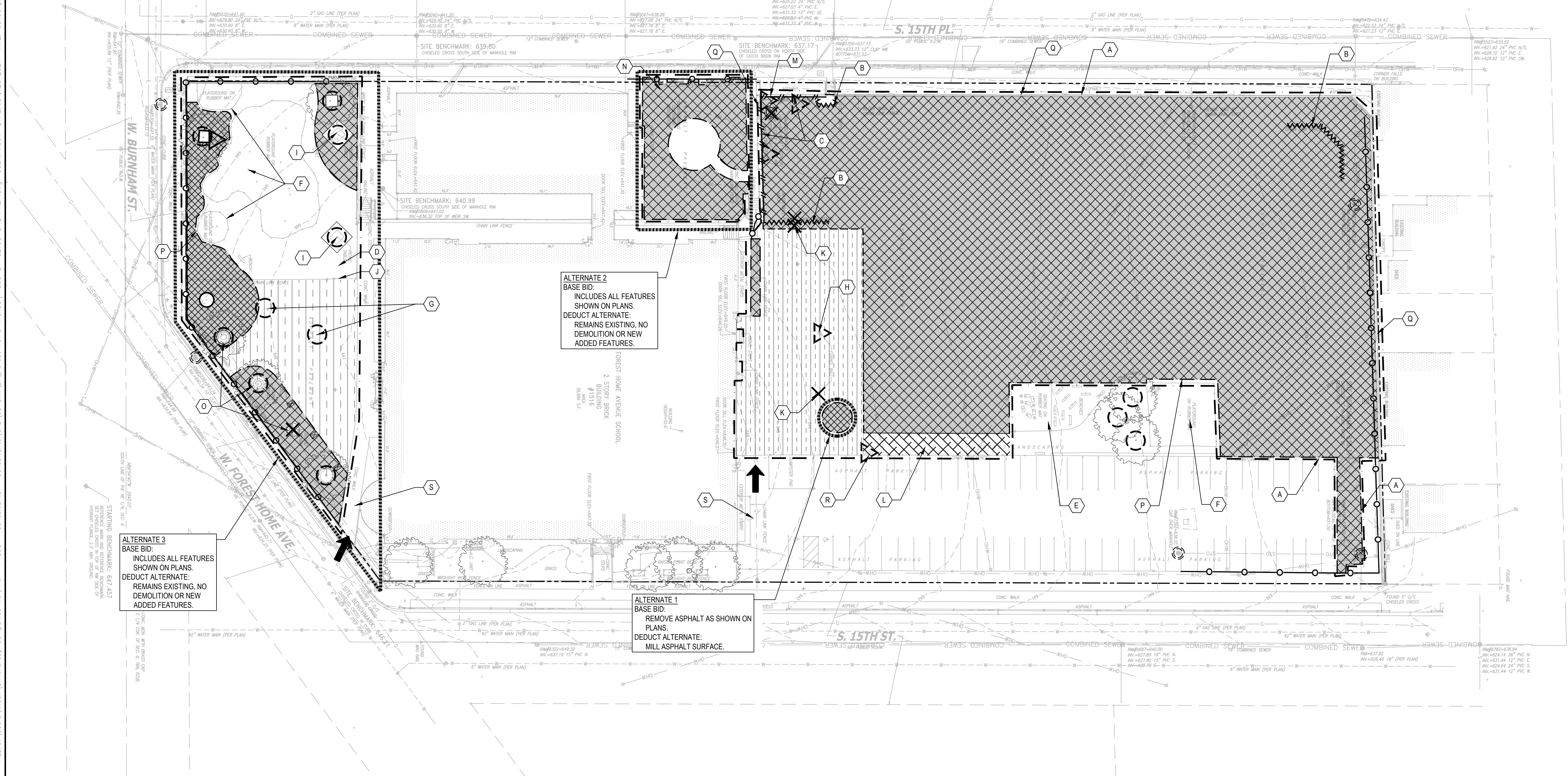
SITE ADDRESS: SITE # 173 1516 W FOREST HOME AVENUE MILWAUKEE, WI 53204

DRAWING TITLE: SITE PREPARATION AND EROSION CONTROL

SCALE: 1" = 30'-0"

PROJECT NUMBER: 8317, DIVISION 1
MPS PROJECT NUMBER: CE100
DRAWING NUMBER

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LEGEND	
	PROPERTY LINE
	ASPHALT PAVEMENT (1) CS500
	ASPHALT OVERLAY
	CONCRETE PAVEMENT (5) CS500
	CONCRETE PAVEMENT AT STRUCTURE (6) CS500
	ENGINEERED WOOD FIBER (1) CS501
	SYNTHETIC TURF (2) CS501
	UNIT PAVERS (4) CS501
	CHAIN LINK FENCE (HEIGHT VARIES, REFER TO KEYED NOTES FOR SIZE)
	EXISTING BUILDING ENTRANCE
	APPROXIMATE EDGE OF PLAY EQUIPMENT
	ROPE FENCE (1) CS502
	WOOD FENCE (2) CS502
	STEPPING STONES (6) CS501

	PRE-CAST CONCRETE BENCH WS900 (5) (1) CS503 (4) CS503
	PRE-CAST CONCRETE BENCH WS905 (8) (3) CS503 (4) CS503
	WOOD PLANTER BOX (2) (5) CS502
	EXPANDED METAL BENCH (5) (3) CS502
	BASKETBALL HOOP (2) (3) CS502
	RAISED PLANTER, BENCH TYPE ZB, CI.5000, (8) (4) L501
	EXPANDED METAL PICNIC TABLES RELOCATED AND MOUNTED TO ASPHALT, OWNER PROVIDED (3)
	ADA RAMP AT ENGINEERED WOOD FIBER AREA AS SPECIFIED (1)
	30' X 48' ADA CLEARANCE ZONE
	MUSICAL INSTRUMENTS AS SPECIFIED (3)
	DEDUCT ALTERNATE

KEYED NOTES	
(A)	EXISTING OUTDOOR CLASSROOM A. EXISTING CONCRETE SLAB AND BENCHES. SHADE STRUCTURE TO BE CONSTRUCTED AND INSTALLED PRIOR TO CONSTRUCTION.
(B)	OUTDOOR CLASSROOM B. PAVERS WITH PRE-CAST CONCRETE BENCHES IN AMPHITHEATER STYLE SEATING.
(C)	OUTDOOR CLASSROOM C. EXISTING ASPHALT WITH RELOCATED PICNIC TABLES.
(D)	12' HEIGHT GALVANIZED CHAIN LINK FENCE ON 12" WIDTH CURB (1) CS504
(E)	4' HEIGHT GALVANIZED CHAIN LINK FENCE (2) CS504
(F)	6' HEIGHT GALVANIZED CHAIN LINK FENCE WITH 4" WIDTH PEDESTRIAN GATE (2) CS504 (3) CS504
(G)	SOCCER FIELD (2) CS504 (3) CS504
(H)	BASKETBALL COURT
(I)	CONCRETE PAD FOR MUSICAL INSTRUMENTS. INSTRUMENTS ARE SURFACE MOUNTED. CONFIRM PLACEMENT WITH OWNER PRIOR TO FINAL INSTALLATION.
(J)	EDGE CONDITION BETWEEN ASPHALT AND PLANTING AREA (2) CS500
(K)	RELOCATED FUNNEL BALL (4) CS502

(L)	STORAGE SHED
(M)	BIOSWALE, REFER TO GRADING PLAN SHEET CG100
(N)	FLUSH CURB AT SYNTHETIC TURF (2) CS501
(O)	FLUSH CURB AT ENGINEERED WOOD FIBER (1) CS501
(P)	NATURE PLAYGROUND (SMALL SIZE) - CONTRACTOR HAS FLEXIBILITY IN INSTALLATION METHODS AS LONG AS IT MEETS SAFETY REGULATIONS AND PROJECT SPECIFICATIONS. PLAY COMPONENTS MUST MEET ASTM AND CSCP SAFETY GUIDELINES. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. (7) CS501 (8) CS501
(Q)	EXISTING FLAG POLE TO REMAIN (7) CS501 (8) CS501
(R)	PAVEMENT MARKINGS, REFER TO SHEET CP100
(S)	EXISTING FUNNEL BALL TO REMAIN
(T)	UNIT PAVERS WITH CONCRETE EDGE RESTRAINT (5) CS501
(U)	MAINTAIN 12" 24" OF ASPHALT BETWEEN EXISTING POURED IN PLACE AREA AND NEW LANDSCAPE SURFACE.
(V)	12' HEIGHT GALVANIZED CHAIN LINK FENCE

SHEET NOTES	
1.	LAYOUT INFORMATION WILL BE PROVIDED TO CONTRACTOR IN ELECTRONIC CAD FORMAT FOR CONSTRUCTION LAYOUT. ANY DISCREPANCIES BETWEEN INFORMATION SHOWN AND CAD FILE SHALL BE BROUGHT TO ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION.
2.	REFER TO LANDSCAPE PLANS FOR LAWN AND PLANTING LOCATIONS.
3.	REFER TO SITE PAVEMENT PLAN FOR PAVEMENT AND FIELD MARKINGS, INCLUDING DESIGNATED PLAY AREAS AND ELEMENTS.
4.	MINIMIZE THE IMPACT TO TREE ROOTS DURING EXCAVATION AND GRADING. HAND DIG WITHIN DRIP LINE OF TREES.

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SEALS AND SIGNATURES

SITE ADDRESS

SITE # 173
1516 W FOREST HOME AVENUE
MILWAUKEE, WI 53204

DRAWING TITLE

SITE LAYOUT

0' 15' 30' 60'
SCALE: 1" = 30'-0"

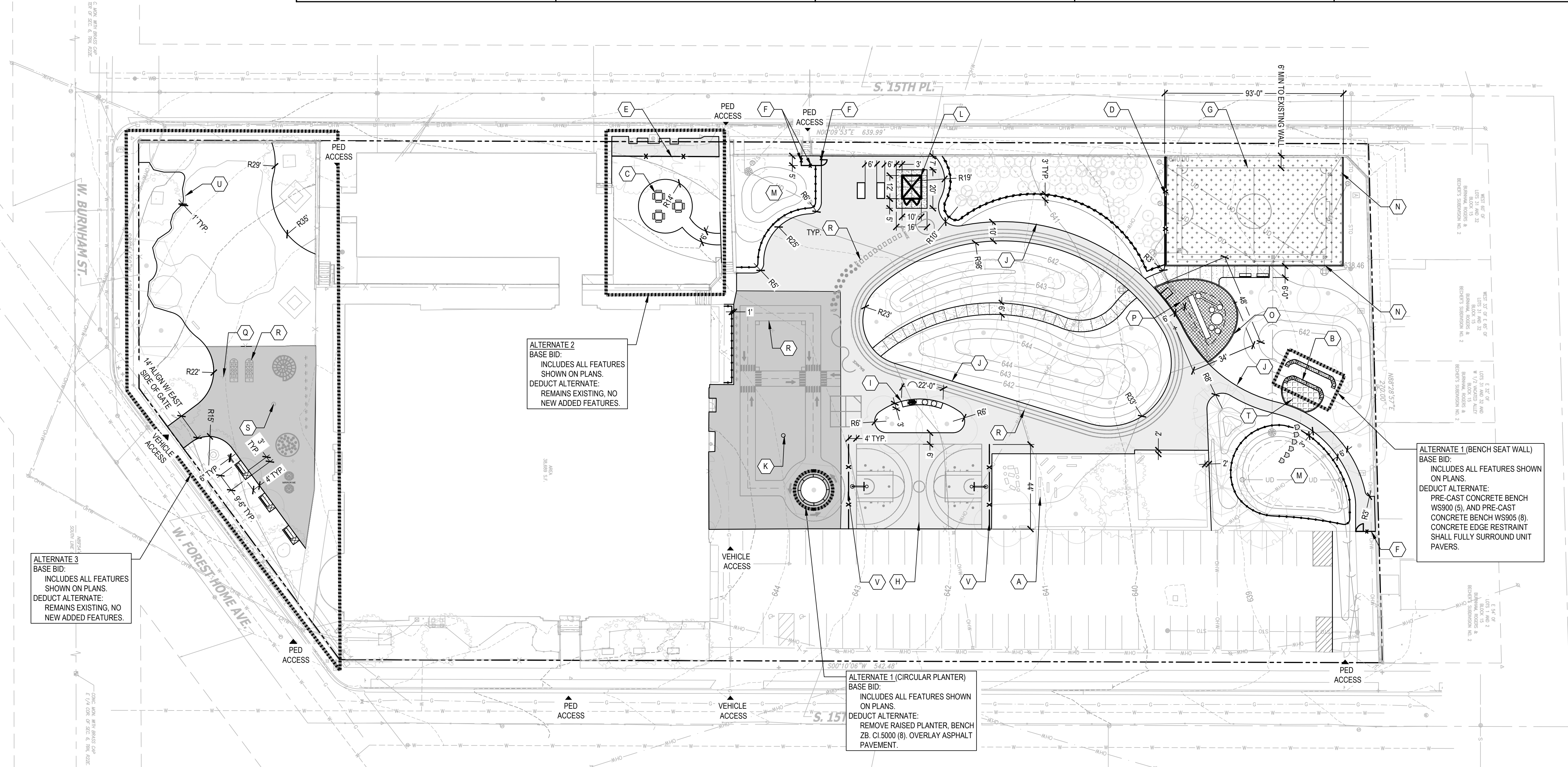
SCALE 14895

PROJECT NUMBER 8317, DIVISION 1

MPS PROJECT NUMBER

CS100

DRAWING NUMBER



ALTERNATE 3
BASE BID:
INCLUDES ALL FEATURES
SHOWN ON PLANS.
DEDUCT ALTERNATE:
REMAINS EXISTING, NO
NEW ADDED FEATURES.

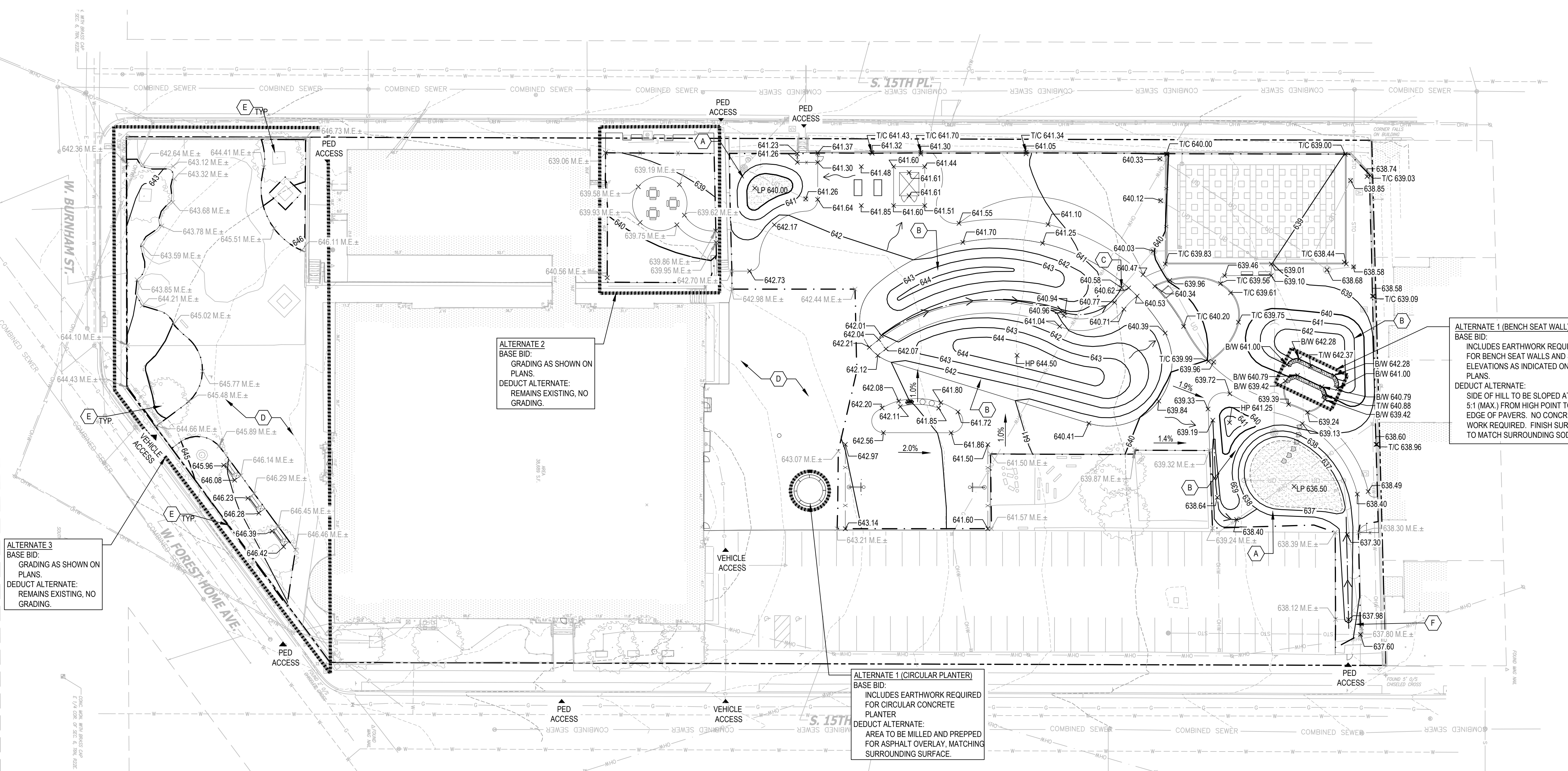
ALTERNATE 2
BASE BID:
INCLUDES ALL FEATURES
SHOWN ON PLANS.
DEDUCT ALTERNATE:
REMAINS EXISTING, NO
NEW ADDED FEATURES.

ALTERNATE 1 (BENCH SEAT WALL)
BASE BID:
INCLUDES ALL FEATURES SHOWN
ON PLANS.
DEDUCT ALTERNATE:
PRE-CAST CONCRETE BENCH
WS900 (5), AND PRE-CAST
CONCRETE BENCH WS905 (8).
CONCRETE EDGE RESTRAINT
SHALL FULLY SURROUND UNIT
PAVERS.

ALTERNATE 1 (CIRCULAR PLANTER)
BASE BID:
INCLUDES ALL FEATURES SHOWN
ON PLANS.
DEDUCT ALTERNATE:
REMOVE RAISED PLANTER, BENCH
ZB, CI.5000 (8), OVERLAY ASPHALT
PAVEMENT.

FILE:C:\Users\kkoeh\SmithGroup\Projects\14895 - Consultants\CAD\05 Civil\01 Forest Home Avenue\14895-D1-CG100-SITE GRAD.dwg USER:kkoeh DATE:Jan, 25 2024 TIME: 09:01 pm

LEGEND		KEYED NOTES	SHEET NOTES
---865---	EXISTING MAJOR CONTOUR	(A)	BIORETENTION
---864---	EXISTING MINOR CONTOUR	(B)	GRADED MOUND
M.E. 861.50	EXISTING SPOT ELEVATION	(C)	DEPRESSION FOR STORMWATER INLET
---865---	PROPOSED MAJOR CONTOUR	(D)	AREA TO MILL AND OVERLAY ASPHALT SURFACE. MAINTAIN EXISTING GRADES.
---864---	PROPOSED MINOR CONTOUR	(E)	MINIMIZE THE IMPACT TO TREE ROOTS DURING EXCAVATION AND GRADING. HAND DIG WITHIN DRIP LINE OF TREE.
---	PROPERTY BOUNDARY	(F)	BIOSWALE BERM, ELEVATION 638.0
---	GRADING LIMITS		
---	BREAKLINE		
2.5%	DRAINAGE SLOPE		
→	FLOW DIRECTION		
→	DRAINAGE SWALE		
[Pattern]	ENGINEERED MEDIA		
[Pattern]	UNDERGROUND CISTERN		
861.50	PROPOSED SPOT ELEVATION		
T/C 861.50	TOP OF CURB ELEVATION		
HP 860.00	HIGH POINT		
LP 858.50	LOW POINT		
BW 858.50	BACK OF WALL (BOTTOM SLOPE)		
TW 858.50	TOP OF WALL (TOP OF SLOPE)		
-----	DEDUCT ALTERNATE		



ALTERNATE 3 (BENCH SEAT WALL)
 BASE BID:
 GRADING AS SHOWN ON PLANS.
 DEDUCT ALTERNATE:
 REMAINS EXISTING, NO GRADING.

ALTERNATE 2 (CIRCULAR PLANTER)
 BASE BID:
 GRADING AS SHOWN ON PLANS.
 DEDUCT ALTERNATE:
 REMAINS EXISTING, NO GRADING.

ALTERNATE 1 (CIRCULAR PLANTER)
 BASE BID:
 INCLUDES EARTHWORK REQUIRED FOR CIRCULAR CONCRETE PLANTER
 DEDUCT ALTERNATE:
 AREA TO BE MILLED AND PREPPED FOR ASPHALT OVERLAY, MATCHING SURROUNDING SURFACE.

ALTERNATE 1 (BENCH SEAT WALL)
 BASE BID:
 INCLUDES EARTHWORK REQUIRED FOR BENCH SEAT WALLS AND SPOT ELEVATIONS AS INDICATED ON THE PLANS.
 DEDUCT ALTERNATE:
 SIDE OF HILL TO BE SLOPED AT A 5:1 (MAX.) FROM HIGH POINT TO EDGE OF PAVERS. NO CONCRETE WORK REQUIRED. FINISH SURFACE TO MATCH SURROUNDING SOD.

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SEALS AND SIGNATURES

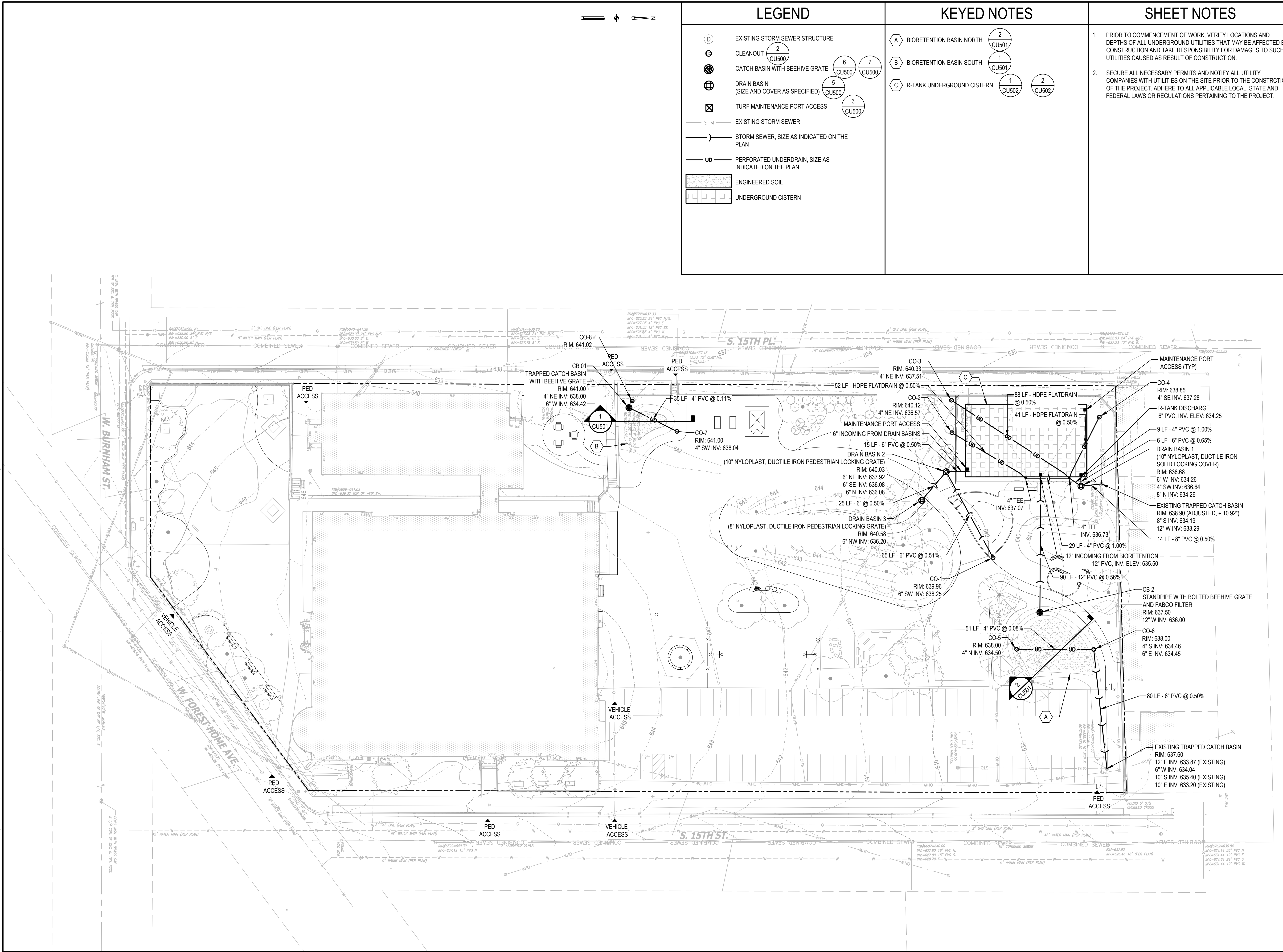
SITE ADDRESS
 SITE # 173
 1516 W FOREST HOME AVENUE
 MILWAUKEE, WI 53204

DRAWING TITLE
GRADING PLAN

SCALE: 1" = 30'-0"

SCALE 14895
 PROJECT NUMBER 8317, DIVISION 1
 MPS PROJECT NUMBER
CG100
 DRAWING NUMBER

FILE:C:\Users\kkocho\SmithGroup\Projects\14895 - Consultants\CAD\05 Civil\DI_Forest Home Avenue\14895-DI-CU100-SITE UTIL.dwg USER:kkocho DATE:Jan. 25 2024 TIME: 09:10 pm



LEGEND		KEYED NOTES		SHEET NOTES	
(D)	EXISTING STORM SEWER STRUCTURE	(A)	BIORETENTION BASIN NORTH (2 CU501)	1. PRIOR TO COMMENCEMENT OF WORK, VERIFY LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY CONSTRUCTION AND TAKE RESPONSIBILITY FOR DAMAGES TO SUCH UTILITIES CAUSED AS RESULT OF CONSTRUCTION. 2. SECURE ALL NECESSARY PERMITS AND NOTIFY ALL UTILITY COMPANIES WITH UTILITIES ON THE SITE PRIOR TO THE CONSTRUCTION OF THE PROJECT. ADHERE TO ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS OR REGULATIONS PERTAINING TO THE PROJECT.	
(C)	CLEANOUT (2 CU500)	(B)	BIORETENTION BASIN SOUTH (1 CU501)		
(B)	CATCH BASIN WITH BEEHIVE GRATE (6 CU500, 7 CU500)	(C)	R-TANK UNDERGROUND CISTERN (1 CU502, 2 CU502)		
(D)	DRAIN BASIN (SIZE AND COVER AS SPECIFIED) (5 CU500)				
(X)	TURF MAINTENANCE PORT ACCESS (3 CU500)				
— STM —	EXISTING STORM SEWER				
—) —	STORM SEWER, SIZE AS INDICATED ON THE PLAN				
— UD —	PERFORATED UNDERDRAIN, SIZE AS INDICATED ON THE PLAN				
[Pattern]	ENGINEERED SOIL				
[Pattern]	UNDERGROUND CISTERN				

2024 GREEN INFRASTRUCTURE UPGRADES FOREST HOME AVENUE SCHOOL

Owner: **MPS MILWAUKEE PUBLIC SCHOOLS**

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SEALS AND SIGNATURES

SITE ADDRESS: **SITE # 173
1516 W FOREST HOME AVENUE
MILWAUKEE, WI 53204**

DRAWING TITLE: **UTILITIES PLAN**

SCALE: 1" = 30'-0"

PROJECT NUMBER: 8317, DIVISION 1
MPS PROJECT NUMBER: **CU100**
DRAWING NUMBER:

2024 GREEN INFRASTRUCTURE UPGRADES FOREST HOME AVENUE SCHOOL

Owner:



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SEALS AND SIGNATURES

SITE ADDRESS

SITE # 173
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DRAWING TITLE

UTILITY DETAILS

SCALE

14895

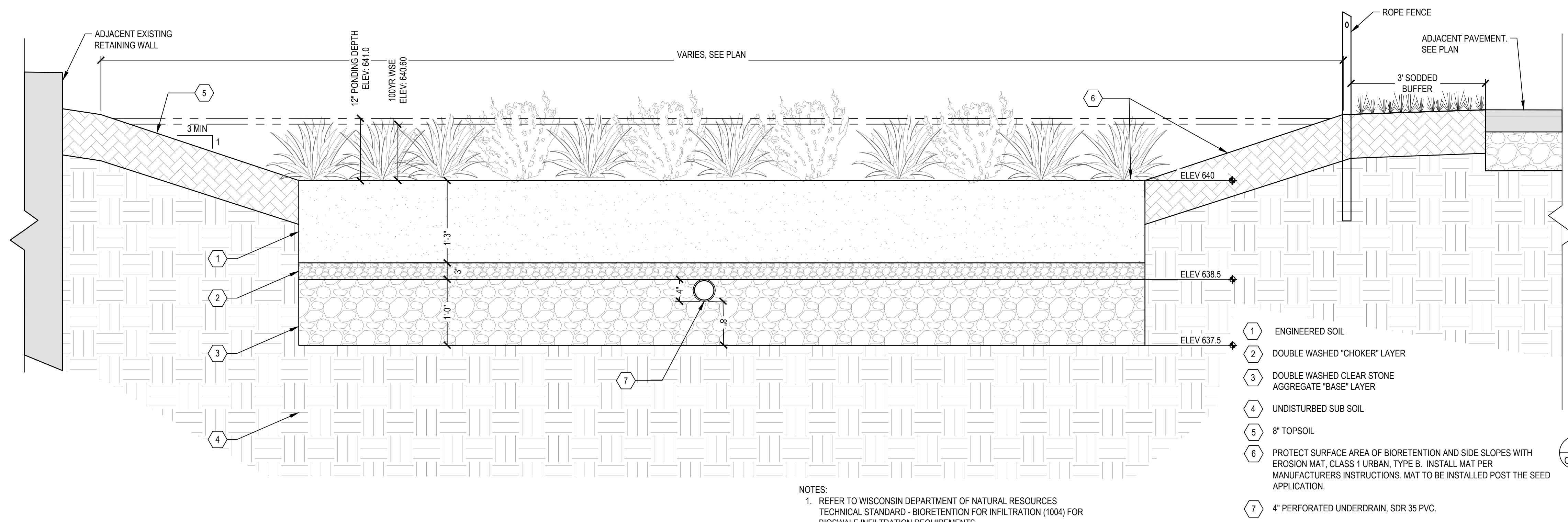
PROJECT NUMBER

8317, DIVISION 1

MPS PROJECT NUMBER

CU501

DRAWING NUMBER

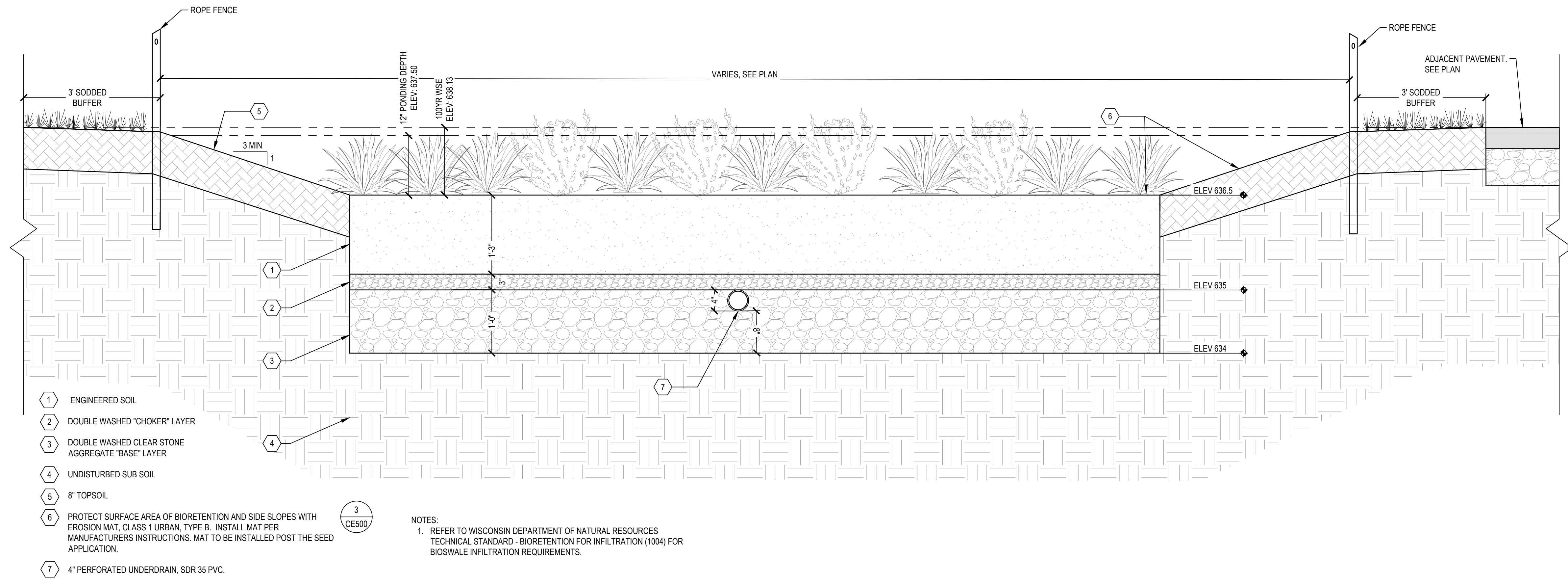


- 1 ENGINEERED SOIL
- 2 DOUBLE WASHED "CHOKER" LAYER
- 3 DOUBLE WASHED CLEAR STONE AGGREGATE "BASE" LAYER
- 4 UNDISTURBED SUB SOIL
- 5 8" TOPSOIL
- 6 PROTECT SURFACE AREA OF BIORETENTION AND SIDE SLOPES WITH EROSION MAT, CLASS 1 URBAN, TYPE B. INSTALL MAT PER MANUFACTURERS INSTRUCTIONS. MAT TO BE INSTALLED POST THE SEED APPLICATION.
- 7 4" PERFORATED UNDERDRAIN, SDR 35 PVC.

NOTES:
1. REFER TO WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARD - BIORETENTION FOR INFILTRATION (1004) FOR BIOSWALE INFILTRATION REQUIREMENTS.

1 SOUTH BIORETENTION

SCALE: 1" = 1'



- 1 ENGINEERED SOIL
- 2 DOUBLE WASHED "CHOKER" LAYER
- 3 DOUBLE WASHED CLEAR STONE AGGREGATE "BASE" LAYER
- 4 UNDISTURBED SUB SOIL
- 5 8" TOPSOIL
- 6 PROTECT SURFACE AREA OF BIORETENTION AND SIDE SLOPES WITH EROSION MAT, CLASS 1 URBAN, TYPE B. INSTALL MAT PER MANUFACTURERS INSTRUCTIONS. MAT TO BE INSTALLED POST THE SEED APPLICATION.
- 7 4" PERFORATED UNDERDRAIN, SDR 35 PVC.

NOTES:
1. REFER TO WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARD - BIORETENTION FOR INFILTRATION (1004) FOR BIOSWALE INFILTRATION REQUIREMENTS.

2 NORTH BIORETENTION

SCALE: 1" = 1'

**2024 GREEN
INFRASTRUCTURE
UPGRADES**
FOREST HOME AVENUE
SCHOOL

Owner:
**MPS MILWAUKEE
PUBLIC SCHOOLS**

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SEALS AND SIGNATURES

SITE ADDRESS
**SITE # 173
1516 W FOREST HOME AVENUE
MILWAUKEE, WI 53204**

DRAWING TITLE
UTILITY DETAILS

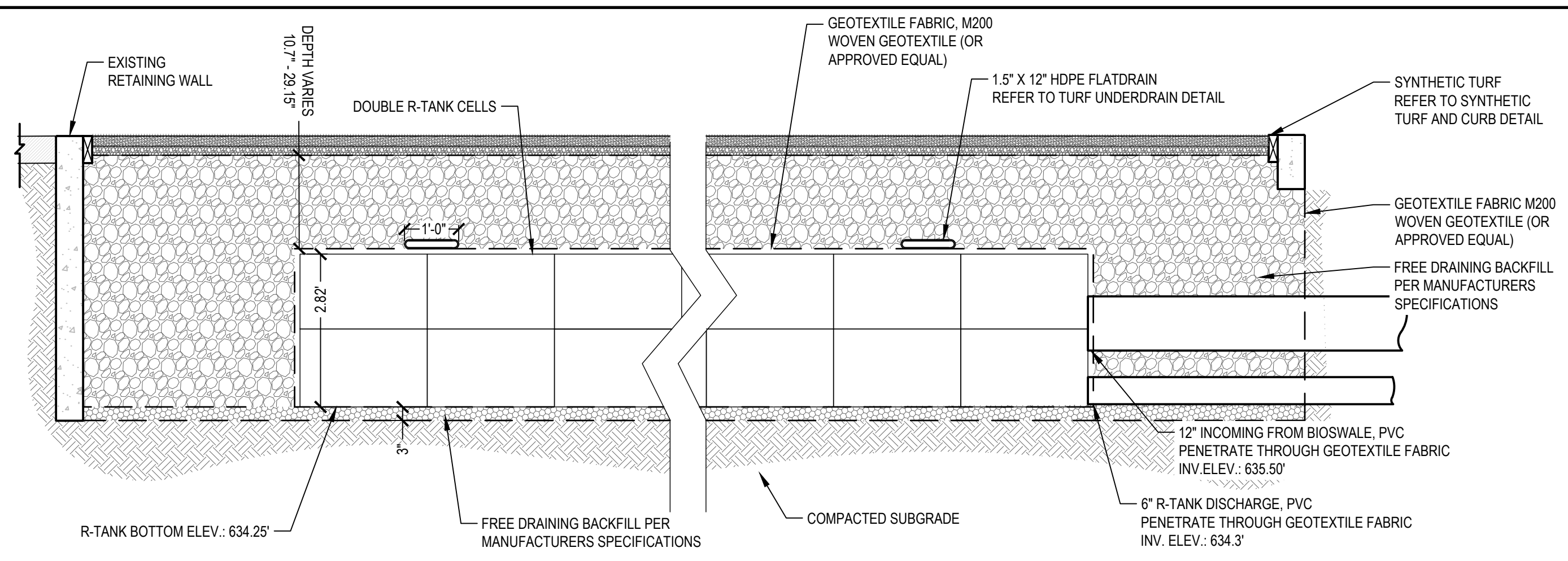
SCALE
14895

PROJECT NUMBER
8317, DIVISION 1

MPS PROJECT NUMBER

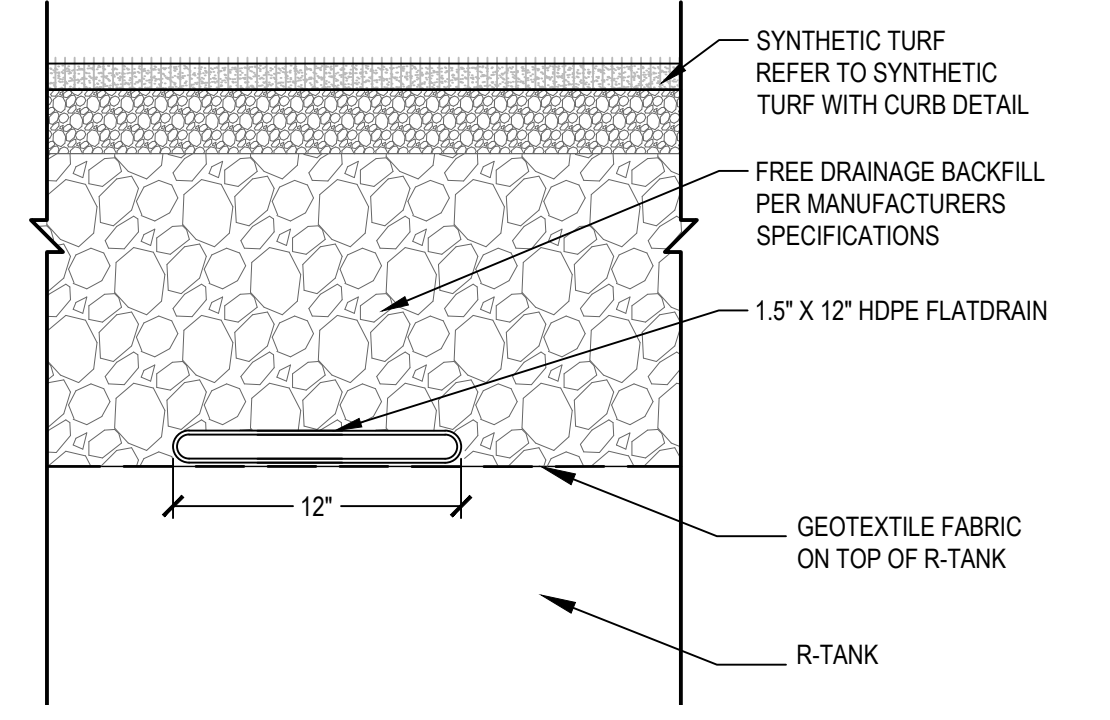
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DRAWING NUMBER



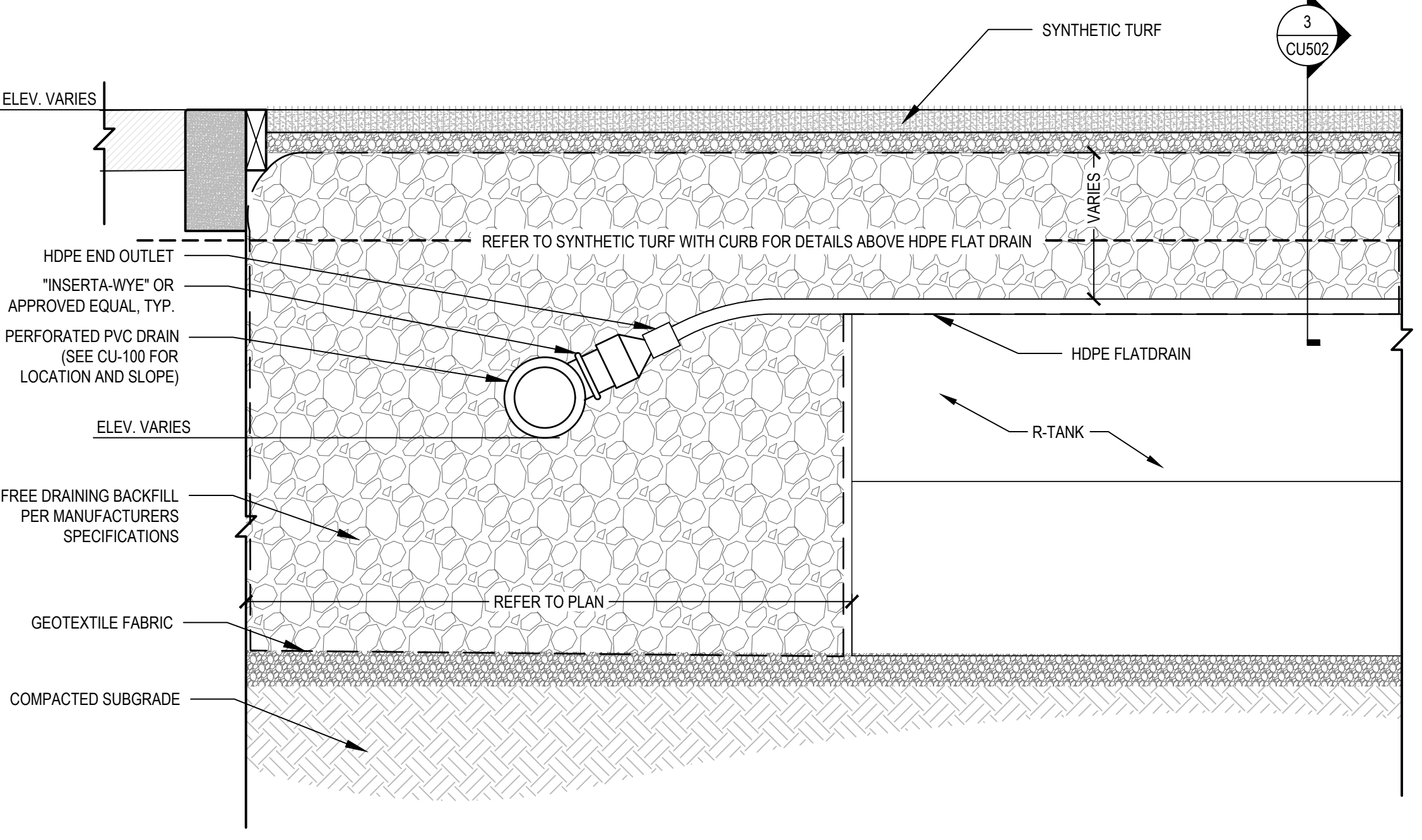
2 R-TANK CROSS SECTION

SCALE: 1/2" = 1'



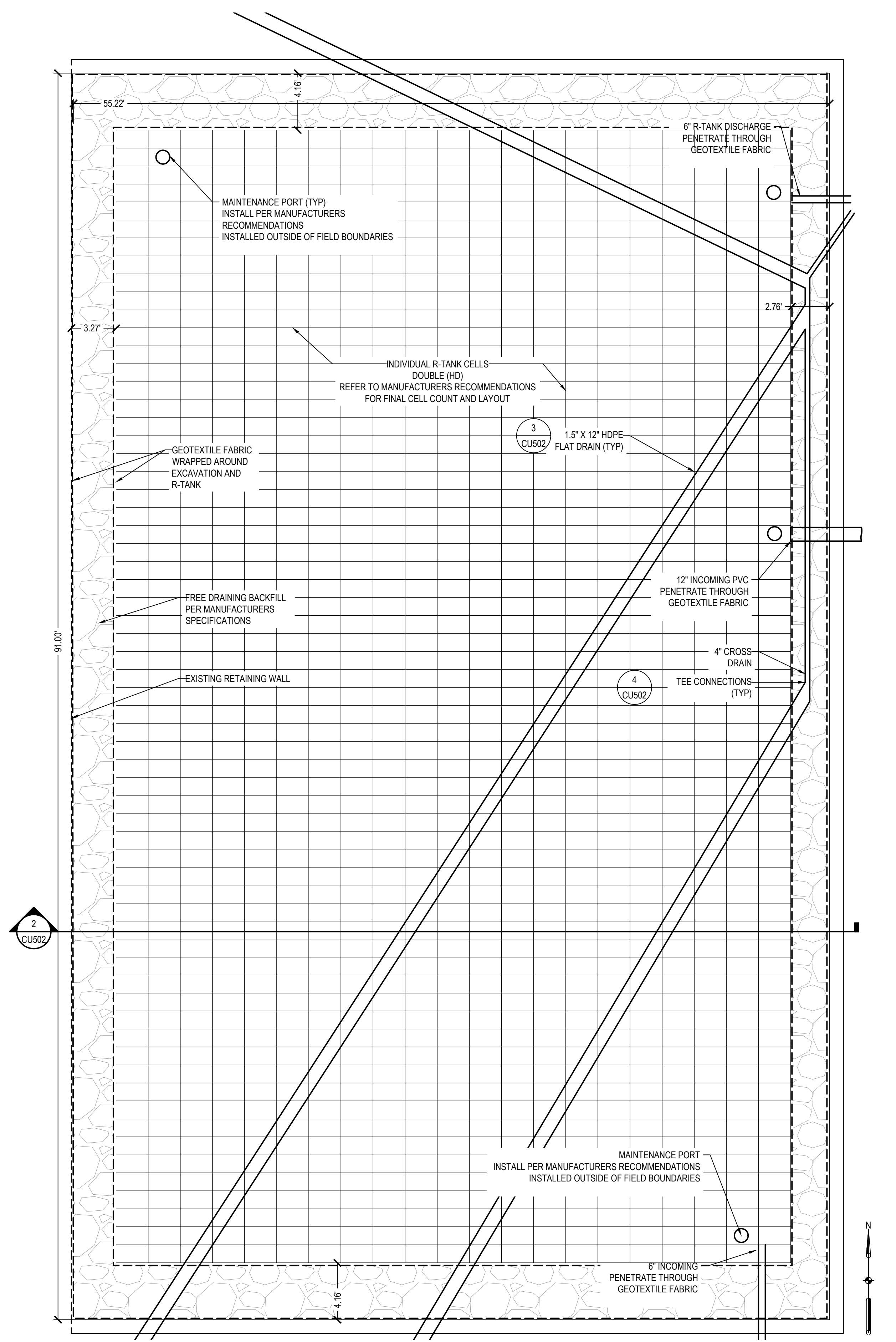
3 TURF UNDERDRAIN

SCALE: 1" = 1'



4 TURF UNDERDRAIN CONNECTION

SCALE: 1" = 1'

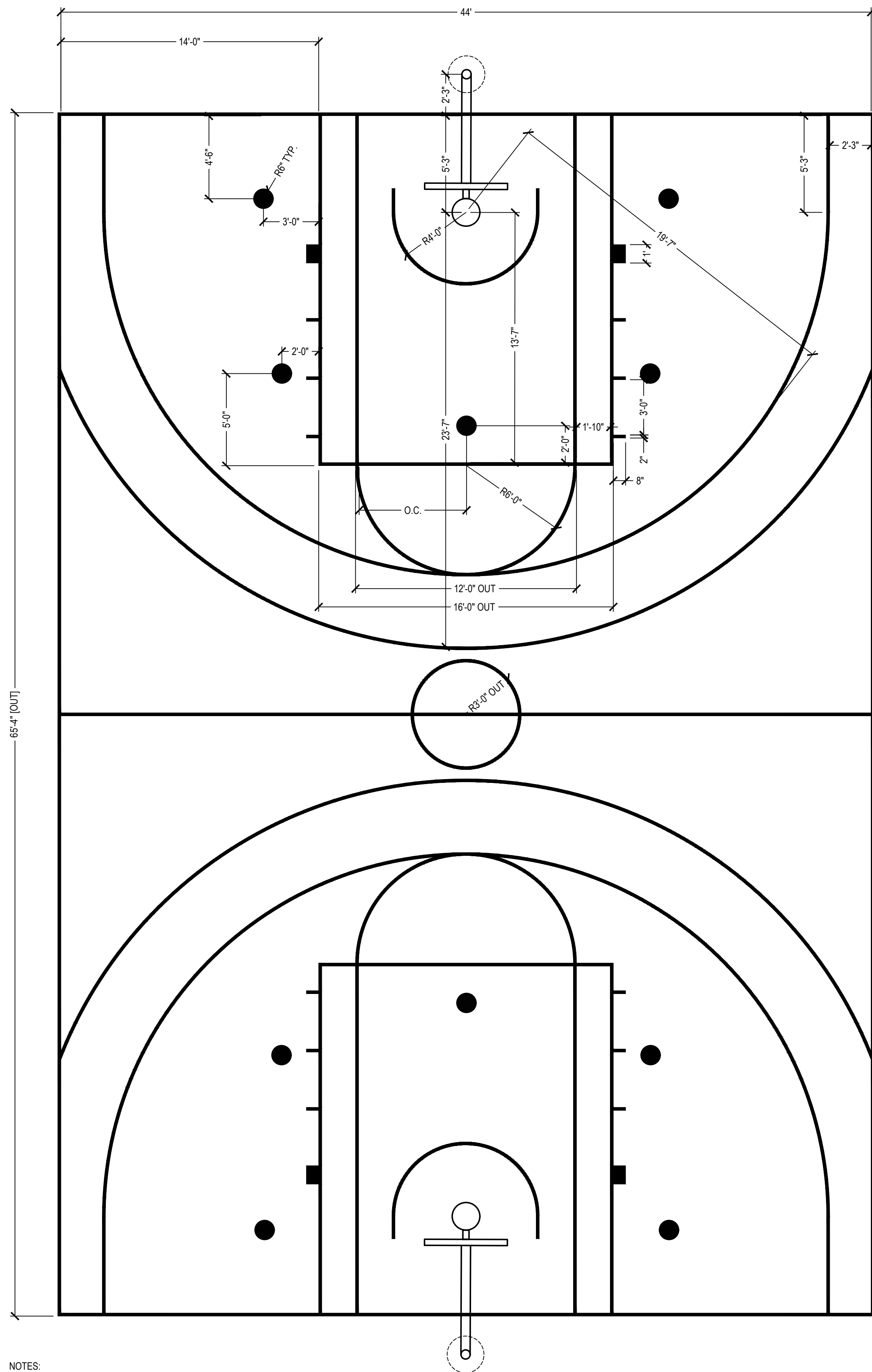


1 R-TANK PLAN VIEW

SCALE: 1" = 5'

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FILE: C:\Users\kkocho\SmithGroup Companies Inc\PRJ - 14895 - Consultants - Consultants\CAD\05 Civil\DI_Forest Home Avenue\DI-CP500-SITE PAV DETL.dwg USER: kkocho DATE: Jan, 25 2024 TIME: 09:04 pm



- NOTES:
1. ALL STRIPING IS TO BE 2" IN WIDTH EXCEPT FOR "HORSE" SOLID CIRCLES. REFER TO CP100 FOR HORSE CIRCLE COLOR AND STRIPING COLOR.
 2. SAFETY ZONE SHALL BE CLEAR OF ALL VERTICAL OBSTRUCTIONS AND GRADE CHANGES. MATERIAL CHANGES ARE ALLOWABLE, SO LONG AS IT MEETS OTHER CRITERIA.
 3. SAFETY ZONE DIMENSIONS SHOULD REFER TO LAYOUT SHEET, CS100
 4. DIMENSIONS INSIDE OF STRIPING UNLESS INDICATED OTHERWISE BY "OUT" IN THE ANNOTATION.
 5. LENGTH OF HOOP GOOSENECK TO BE 4'-0" TO 6'-0" AND POST LOCATION UPDATED ACCORDINGLY



SCALE: 1/4" = 1'

1 BASKETBALL COURT (MPS STANDARD DETAIL)

2024 GREEN INFRASTRUCTURE UPGRADES

FOREST HOME AVENUE SCHOOL

Owner:



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SEALS AND SIGNATURES

SITE ADDRESS

SITE # 173
1516 W FOREST HOME AVENUE
MILWAUKEE, WI 53204

DRAWING TITLE

PAVEMENT MARKING
DETAILS

SCALE

14895

PROJECT NUMBER

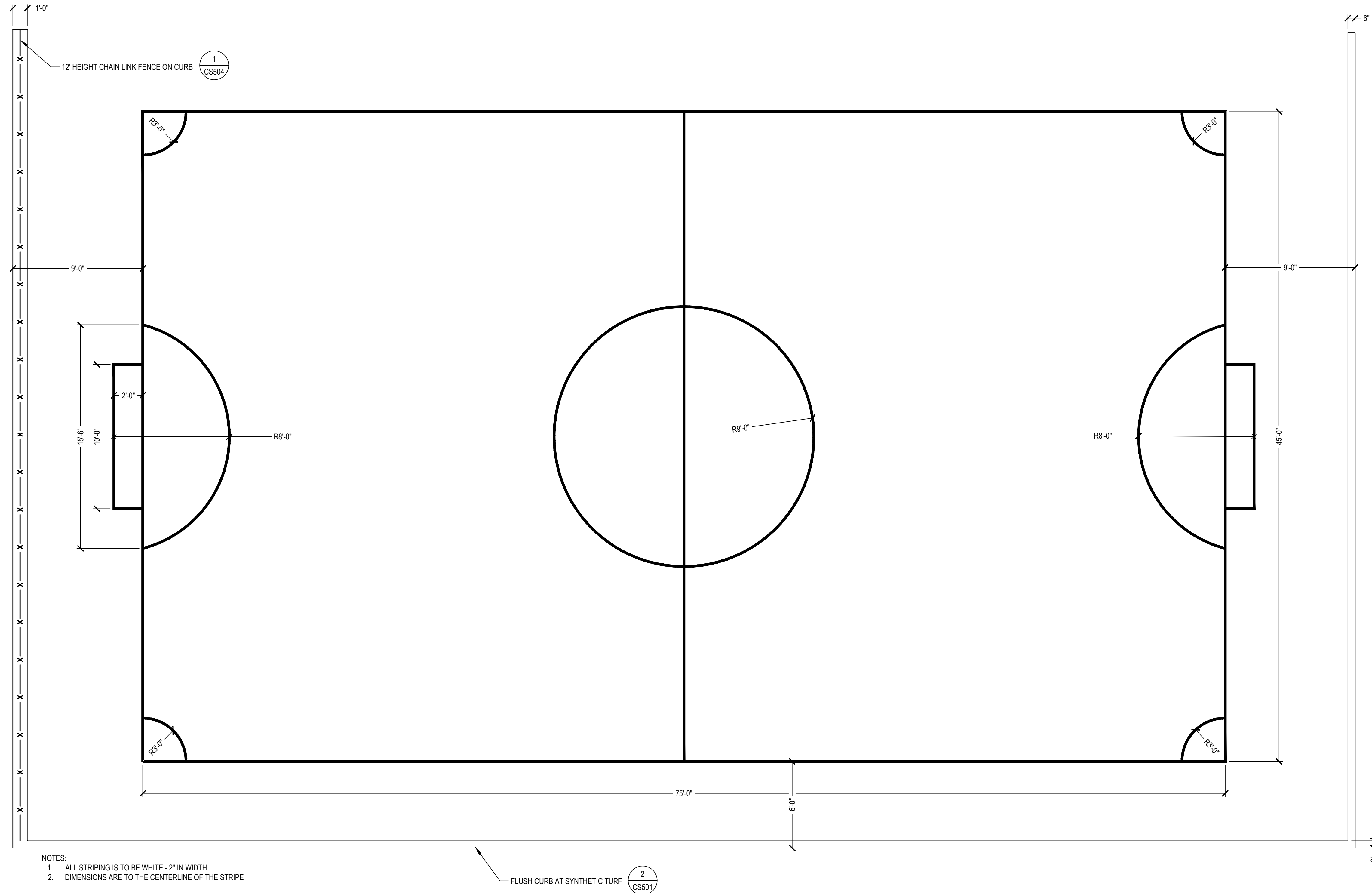
8317, DIVISION 1

MPS PROJECT NUMBER

CP500

DRAWING NUMBER

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- NOTES:
 1. ALL STRIPING IS TO BE WHITE - 2" IN WIDTH
 2. DIMENSIONS ARE TO THE CENTERLINE OF THE STRIPE

1 SOCCER FIELD

SCALE: 1/4" = 1'

**2024 GREEN
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 FOREST HOME AVENUE
 SCHOOL

Owner:



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DRAWING TITLE

**PAVEMENT MARKING
 DETAILS**

SCALE

14895

PROJECT NUMBER

8317, DIVISION 1

MPS PROJECT NUMBER

CP501

DRAWING NUMBER

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SHEET NOTES

- SEE SHEETS L502 AND L503 FOR PLANTING SCHEDULE.
- SEE SHEETS L500 AND L501 FOR PLANTING NOTES AND DETAILS.

LEGEND

	EXISTING TREE TO REMAIN	PERENNIAL AREAS: MIX 1 - BIOSWALE MIX 2 - BIOSWALE MIX 3 - BIOSWALE MIX 4 - BIOSWALE MICROFOREST PERENNIALS MIX
	LAWN - SOD, RE: SPECS	
	LAWN - SEED, RE: SPECS	
	NO MOW LAWN SEED MIX, RE: SPECS	
	MICROCLOVER SEED: RE SPECS	
	BIOSWALE GREEN MULCH SEED MIX, RE: SPECS	
	TREE INSTALLATION & PROTECTION STAKING	

2024 GREEN INFRASTRUCTURE UPGRADES FOREST HOME AVENUE SCHOOL



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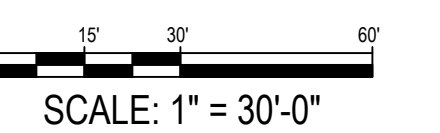
ISSUED FOR	REV	DATE
100% CD		01/25/2024

SEALS AND SIGNATURES

SITE ADDRESS
 SITE # 173
 1516 W FOREST HOME AVENUE
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DRAWING TITLE

PLANTING PLAN

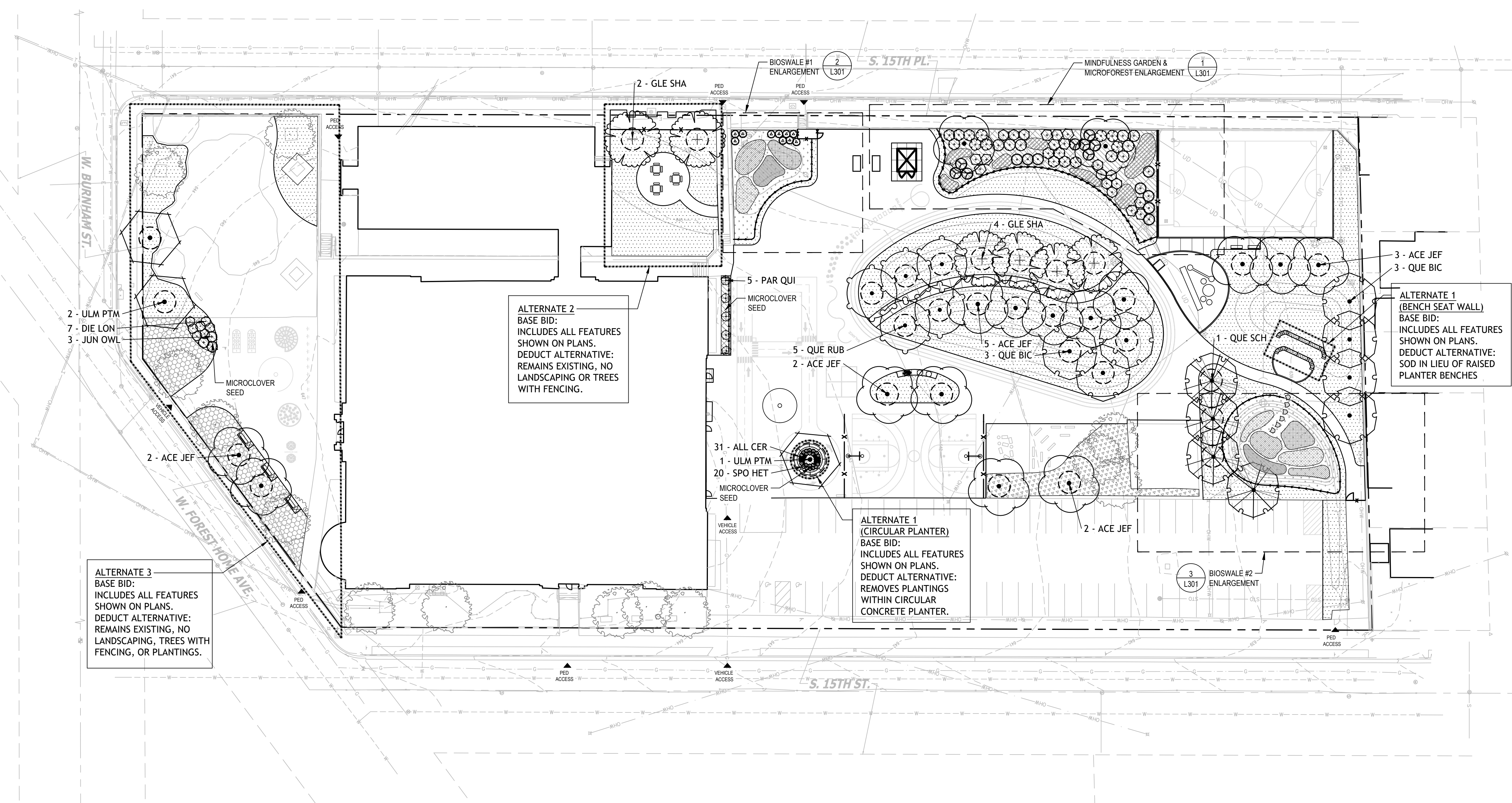


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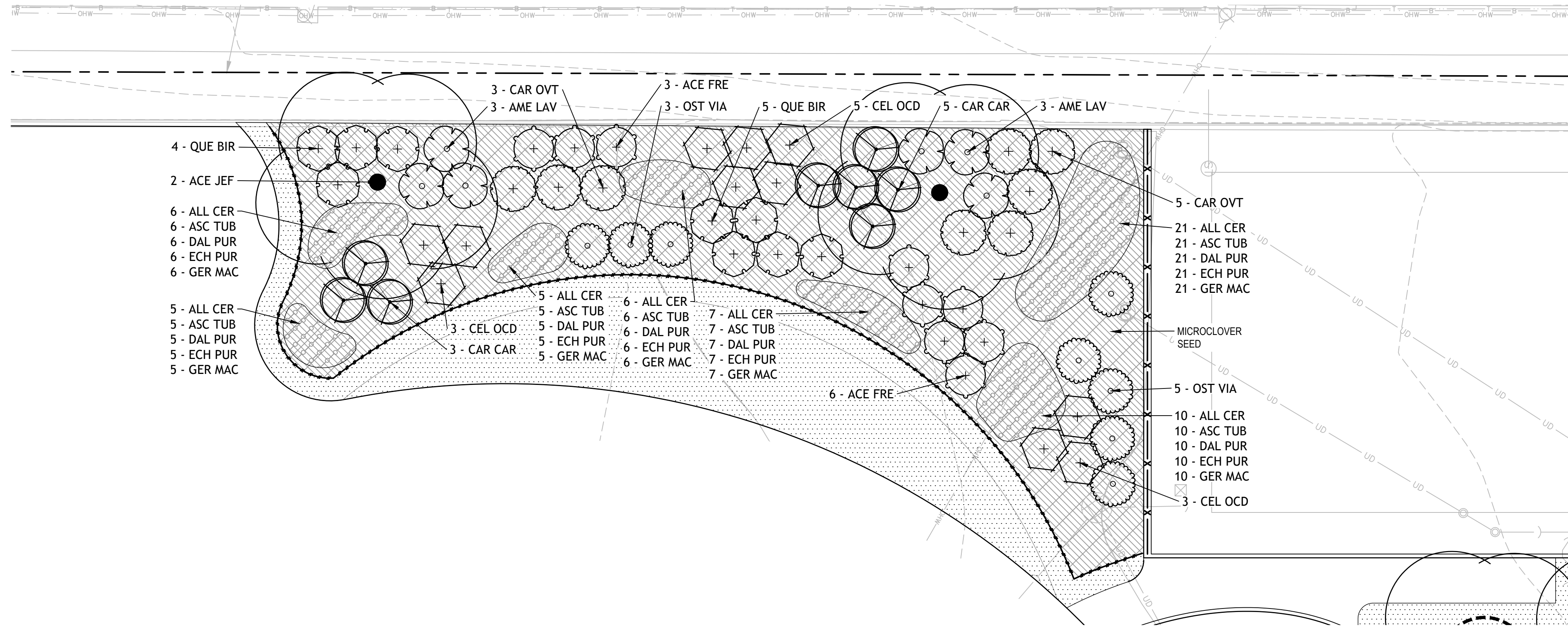
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MPS PROJECT NUMBER L300

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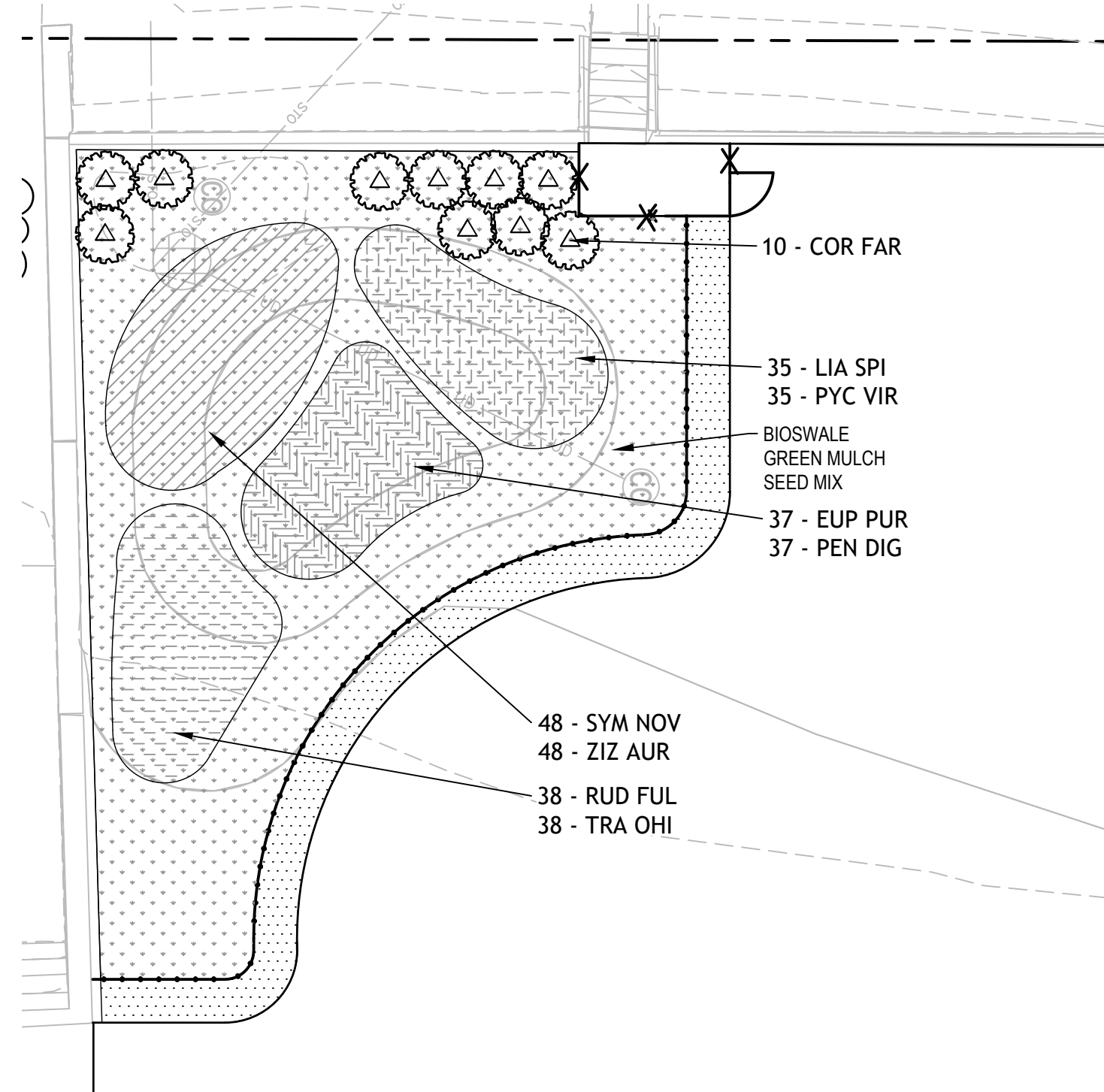


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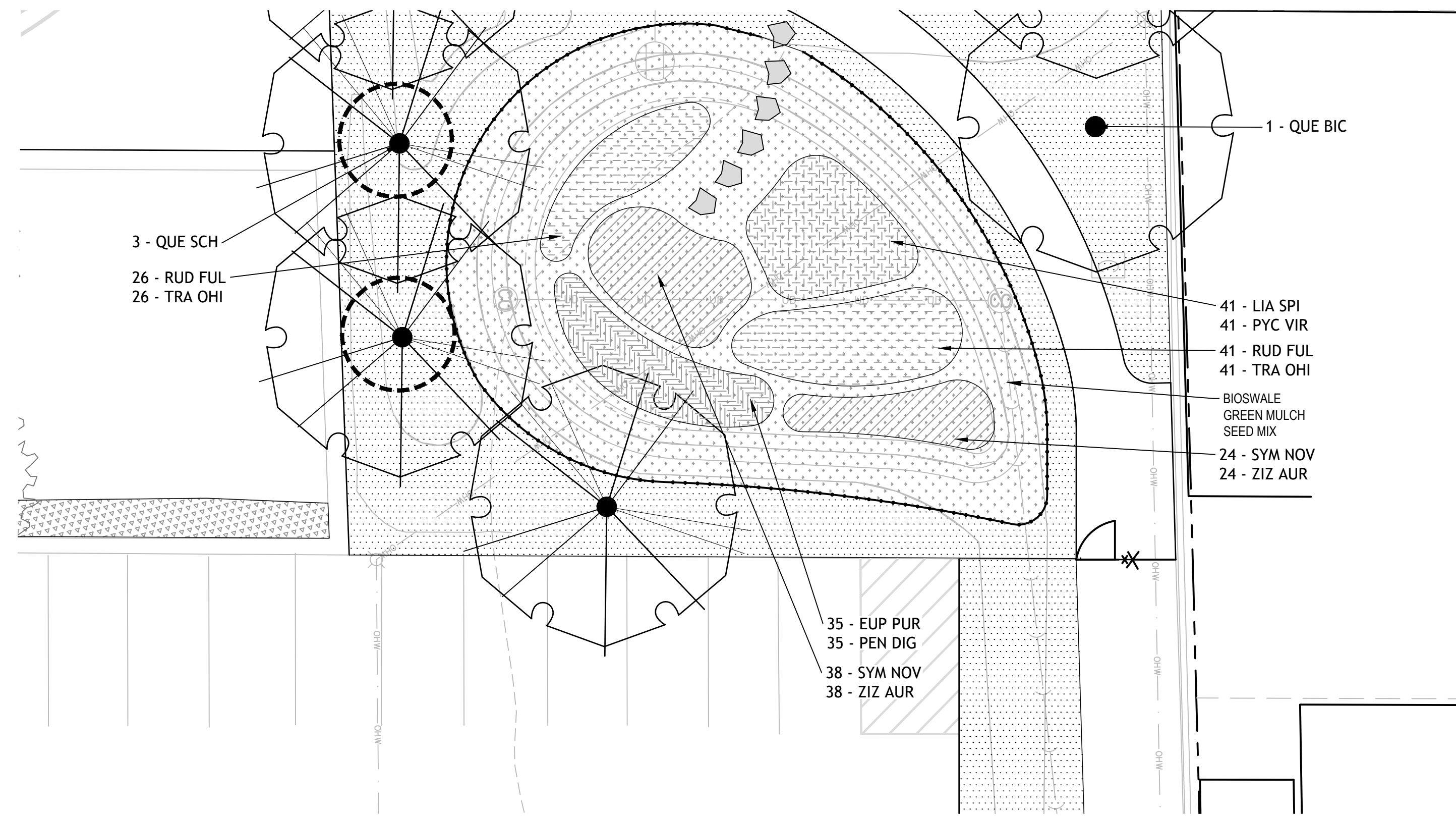
1 MINDFULNESS GARDEN AND MICROFOREST ENLARGEMENT

SCALE: 1" = 10'-0"



2 BIOSWALE #1 ENLARGEMENT

SCALE: 1" = 10'-0"



3 BIOSWALE #2 ENLARGEMENT

SCALE: 1" = 10'-0"

LEGEND

EXISTING TREE TO REMAIN

LAWN - SOD, RE: SPECS

LAWN - SEED, RE: SPECS

NO MOW LAWN SEED MIX, RE: SPECS

MICROCLOVER SEED, RE: SPECS

BIOSWALE GREEN MULCH SEED MIX, RE: SPECS

TREE INSTALLATION & PROTECTION STAKING

PERENNIAL AREAS:

MIX 1 - BIOSWALE

MIX 2 - BIOSWALE

MIX 3 - BIOSWALE

MIX 4 - BIOSWALE

MICROFOREST PERENNIALS MIX

SHEET NOTES

- SEE SHEETS L502 AND L503 FOR PLANTING SCHEDULE.
- SEE SHEETS L500 AND L501 FOR PLANTING NOTES AND DETAILS.

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DRAWING TITLE

PLANTING PLAN ENLARGEMENTS

SCALE: 1" = 10'-0"

SCALE 14895

PROJECT NUMBER 8317, DIVISION 1

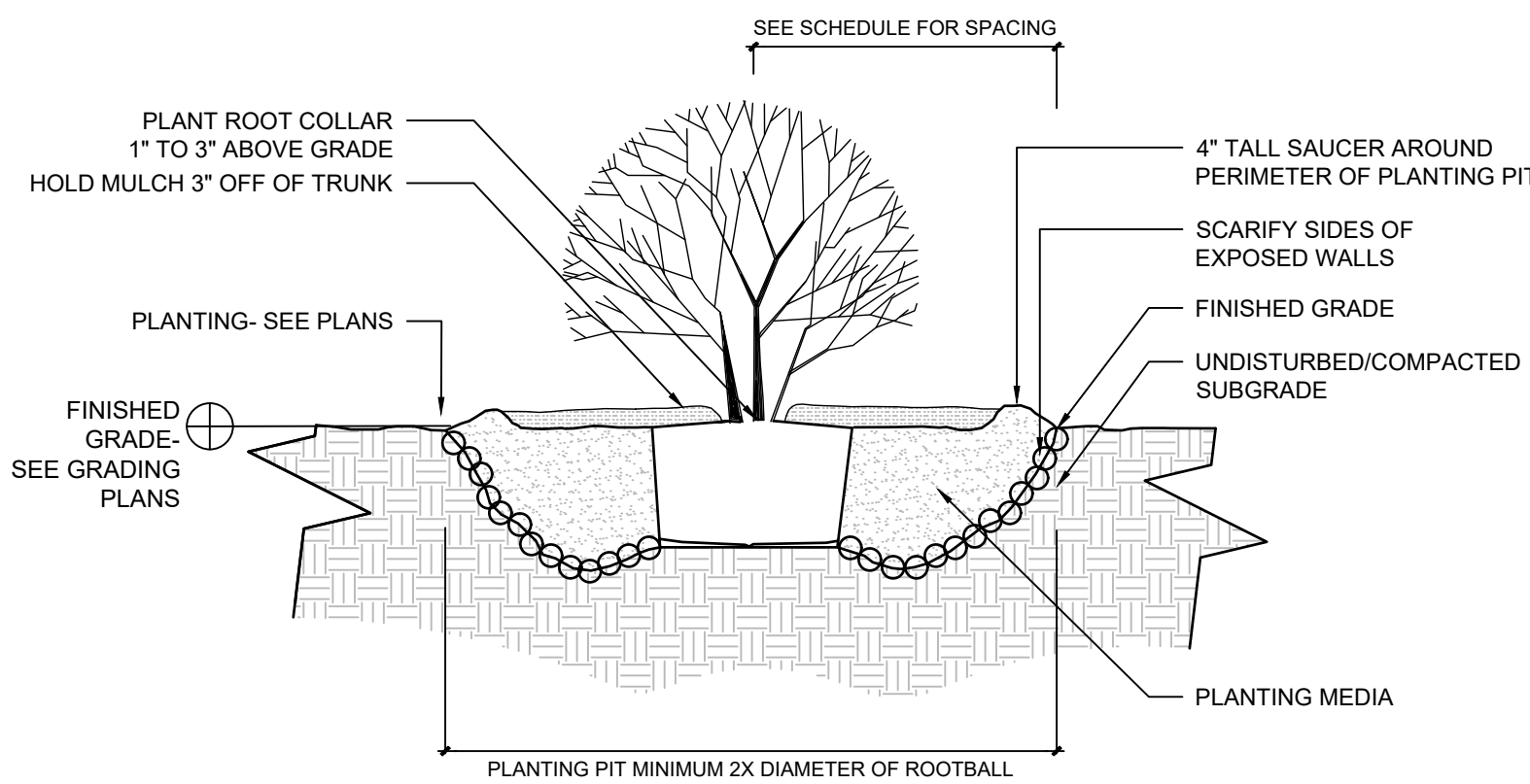
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DRAWING NUMBER

L301

PLANTING NOTES

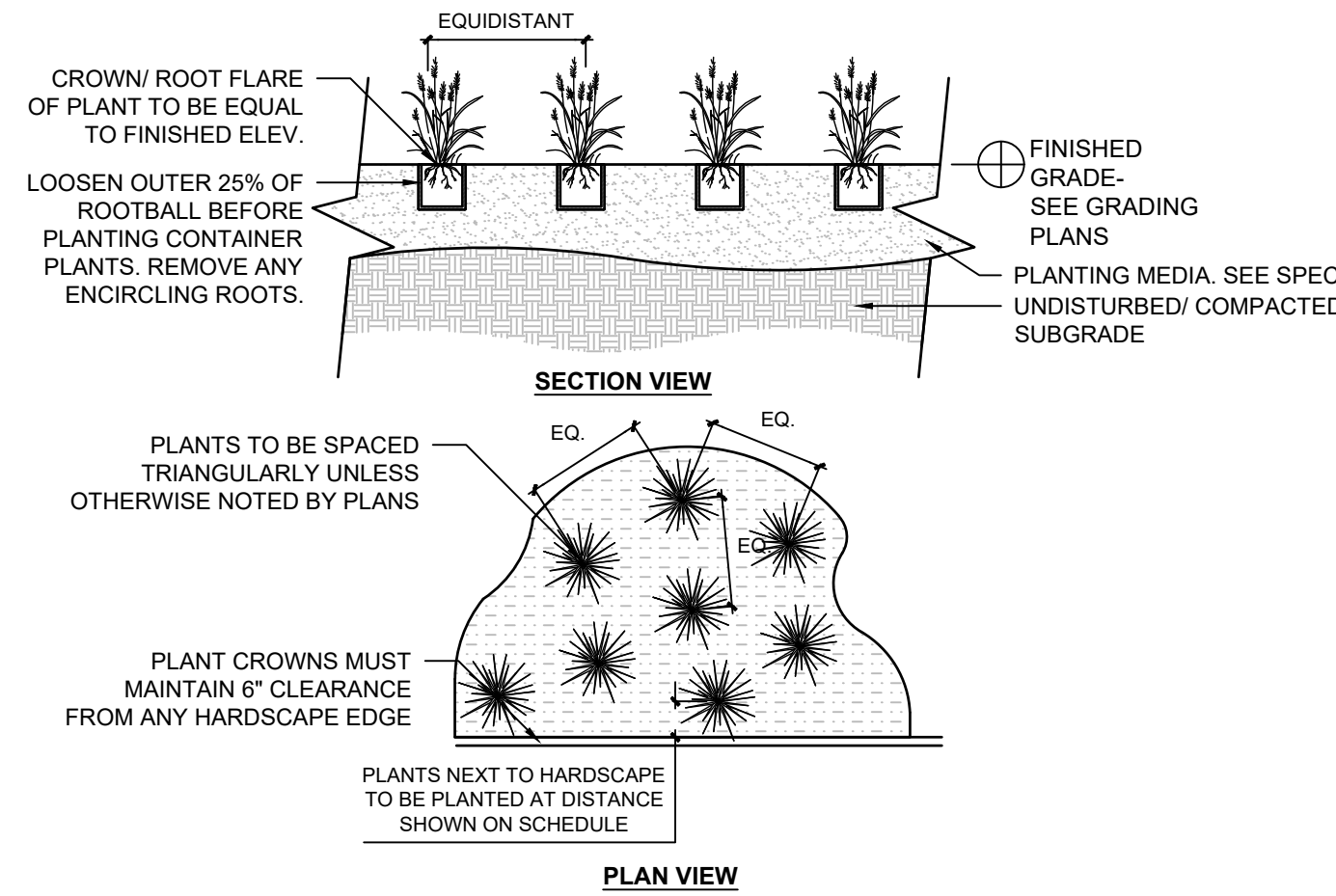
- CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATED TO THE NATURE AND SCOPE OF WORK.
- CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND AND ABOVE GROUND UTILITIES AND PROVIDE THE NECESSARY PROTECTION BEFORE CONSTRUCTION BEGINS.
- CONTRACTOR SHALL VERIFY PLAN LAYOUT AND DIMENSIONS SHOWN AND BRING TO THE ATTENTION OF THE PRIME CONSULTANT DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN AND/OR INTENT OF THE PROJECT'S LAYOUT.
- CONTRACTOR SHALL ASSURE COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK AND/OR MATERIALS SUPPLIED.
- CONTRACTOR SHALL PROTECT EXISTING ROADS, CURBS/GUTTERS, TRAILS, SIDEWALKS, TREES, LAWNS AND OTHER SITE ELEMENTS DURING CONSTRUCTION OPERATIONS. DAMAGE TO SAME SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO MAINTAIN EXISTING GRADE WITHIN THE TREE CANOPY LINE (MINIMUM) OF TREES TO BE PRESERVED AND PROTECTED UNLESS OTHERWISE INDICATED ON THE PLANS. REFERENCE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION INFORMATION.
- NO PRUNING SHALL BE PERFORMED ON TREES TO BE PRESERVED EXCEPT BY APPROVED ARBORIST.
- NO EQUIPMENT SHALL OPERATE INSIDE THE DRIP LINE (AT MINIMUM) OF TREES TO BE PRESERVED.
- HAND WORK ONLY AND NO MACHINERY OR MATERIAL STORAGE WITHIN DRIP LINE OF TREES TO BE PRESERVED.
- EXISTING TREES TO REMAIN SHALL BE FERTILIZED AND PRUNED TO REMOVE DEAD WOOD, DAMAGED, AND/OR RUBBING BRANCHES.
- CONTRACTOR SHALL COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON THE SITE.
- CONTRACTOR TO COMPLETE SOIL PREPARATION PER SPECIFICATIONS.
- CONTRACTOR TO SUPPLY AND INSTALL SOD, TREES, SHRUBS, PERENNIALS, GRASSES, PLUGS, AND GROUNDCOVERS.
- PROPOSED PLANT MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 UNLESS NOTED OTHERWISE. DECIDUOUS SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED HEIGHT. ORNAMENTAL TREES SHALL HAVE NO "V" CROTCHES AND SHALL BEGIN BRANCHING NO LOWER THAN 3 FEET ABOVE ROOT BALL. SHADE TREES SHALL BEGIN BRANCHING NO LOWER THAN 6' ABOVE FINISHED GRADE.
- ALL PLANTS AND TREES SHALL BE PLANTED PER DETAILS AND SPECS.
- ALL TREES, AS IDENTIFIED ON THE PLANS, SHALL BE STAKED AS SHOWN ON THE PLANTING DETAILS UNLESS NOTED OTHERWISE ON THE PLANS.
- NO PLANTS SHALL BE INSTALLED UNTIL FINAL GRADES AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- WHEN QUANTITIES ARE LISTED THEY ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL COUNTS MUST BE VERIFIED BY THE CONTRACTOR. IN THE CASE OF A DISCREPANCY BETWEEN THE LEGEND AND THE PLAN, PLANTS INDICATED ON THE PLAN SHALL SUPERCEDE QUANTITIES LISTED IN THE LEGEND. SPECIFICATIONS AND DETAILS TAKE PRECEDENCE OVER NOTES.
- NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS REQUESTED OF THE LANDSCAPE ARCHITECT BY THE LANDSCAPE CONTRACTOR PRIOR TO THE SUBMISSION OF BID AND/OR QUOTATION.
- ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIAL MAY BE NEEDED IN FIELD. PRIME CONSULTANT MUST BE NOTIFIED PRIOR TO THE ADJUSTMENT OF PLANTS.
- CONTRACTOR SHALL VERIFY PLANT QUANTITIES SHOWN ON THE PLAN AND PROVIDE A LIST TO THE CLIENT IDENTIFYING THE SPECIES AND SIZES TO BE USED THROUGHOUT THE PROJECT. THE LANDSCAPE ARCHITECT AND THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY SUBSTANDARD PLANT MATERIAL. REJECTED MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE IMMEDIATELY.



- GENERAL NOTES:**
- PLANTING SPECIFICATIONS SHALL REFER TO ANY SOIL AMENDMENTS REQUIRED
 - PLANTS ARE TO THOROUGHLY WATERED AFTER TRANSPLANTING IS COMPLETED. SEE SPECIFICATION FOR FULL WATERING NOTES
 - REMOVE BURLAP, WIRE CAGE, AND PLASTIC CONTAINERS (SEE ROOTBALL PREPARATION DETAIL)
 - THIS TREE PLANTING DETAIL MEETS THE REQUIREMENTS OUTLINED IN THE WISCONSIN DNR "Developing Planting Specifications" (2006)

1 SHRUB PLANTING

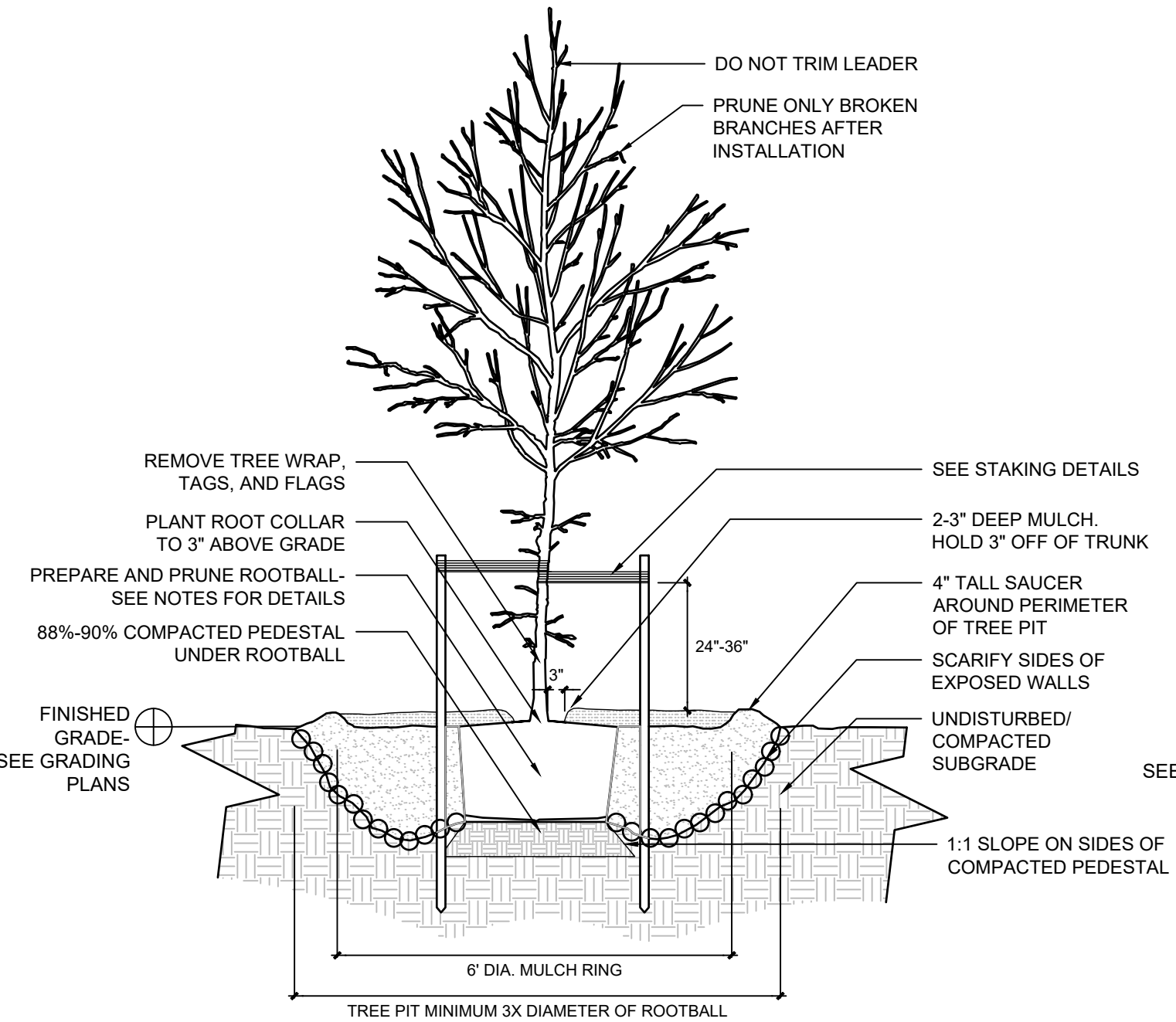
NOT TO SCALE



- GENERAL NOTES:**
- IF PLUGS ARE TO BE INSTALLED IN EROSION MATTING- CUT MATTING PRIOR TO PLANTING. SEEDING TO OCCUR PRIOR TO INSTALLING EROSION MATTING
 - SEE PLANTING SCHEDULE FOR GROUNDCOVER SPECIES AND SPACING
 - SETTLE SOIL AROUND ROOT BALL AROUND EACH SPECIMEN BY THOROUGHLY WATERING

2 PLUG PLANTING

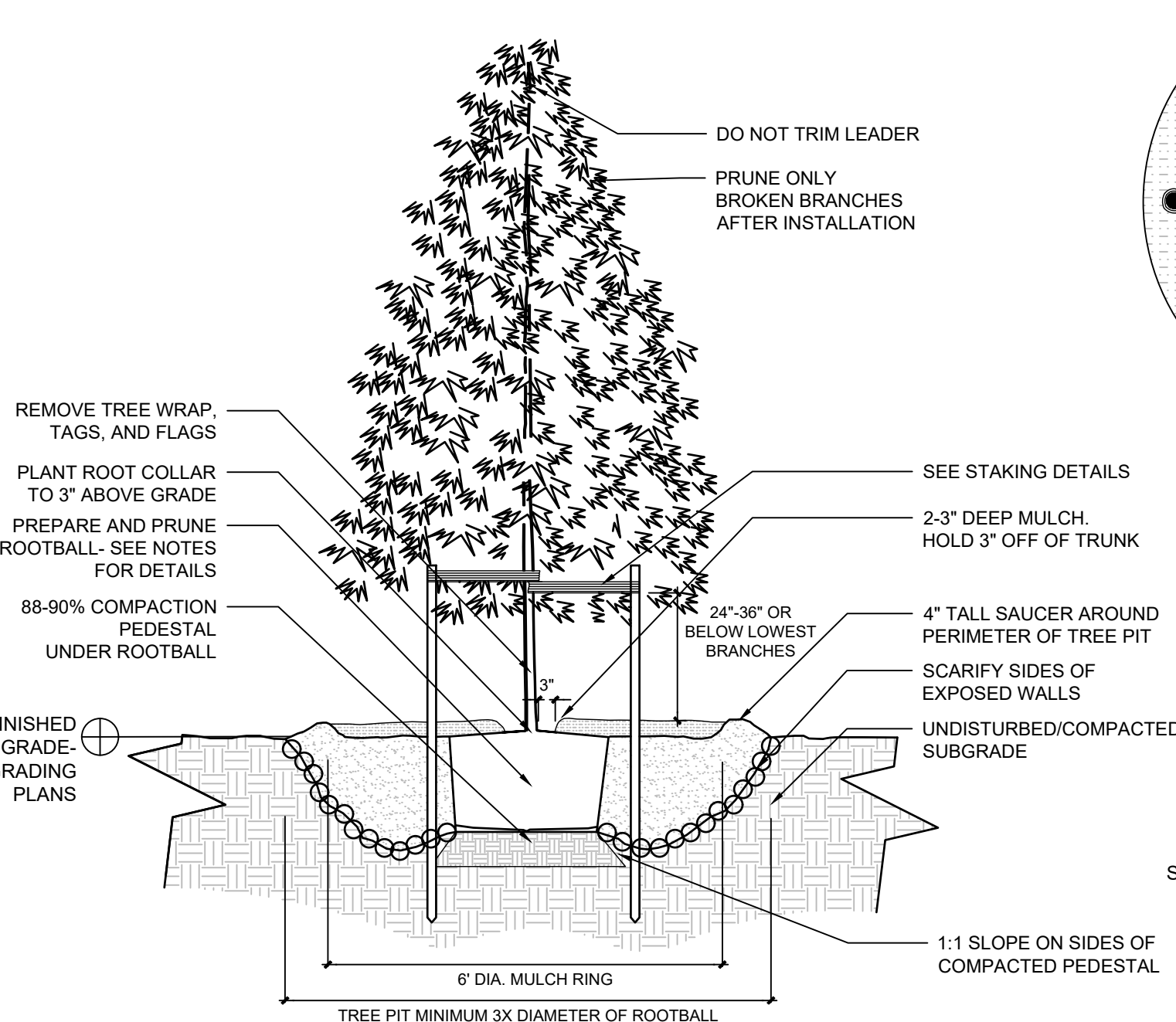
NOT TO SCALE



- GENERAL NOTES:**
- PLANTING SPECIFICATIONS SHALL REFER TO ANY SOIL AMENDMENTS REQUIRED
 - USE TYPICAL TREE STAKING DETAIL UNLESS DESIGNATED AS "TREE INSTALLATION AND PROTECTION STAKING" ON PLANS
 - PLANTS ARE TO THOROUGHLY WATERED AFTER TRANSPLANTING IS COMPLETED. SEE SPECIFICATION FOR FULL WATERING NOTES
 - REMOVE BURLAP, WIRE CAGE, AND PLASTIC CONTAINERS (SEE ROOTBALL PREPARATION DETAIL)
 - THIS TREE PLANTING DETAIL MEETS THE REQUIREMENTS OUTLINED IN THE WISCONSIN DNR "Developing Planting Specifications" (2006)
 - USE EXISTING SOIL REMOVED FROM HOLE AS BACK FILL. USE 2/3 PARTS EXISTING SOIL AND 1/3 IMPORTED TOPSOIL. FERTILIZE WITH A 20-10-5 TREE PLANTING TABLET PER THE MANUFACTURER'S RECOMMENDED RATES. DO NOT PLACE TABLETS IN THE BOTTOM OF THE HOLE

4 DECIDUOUS TREE PLANTING

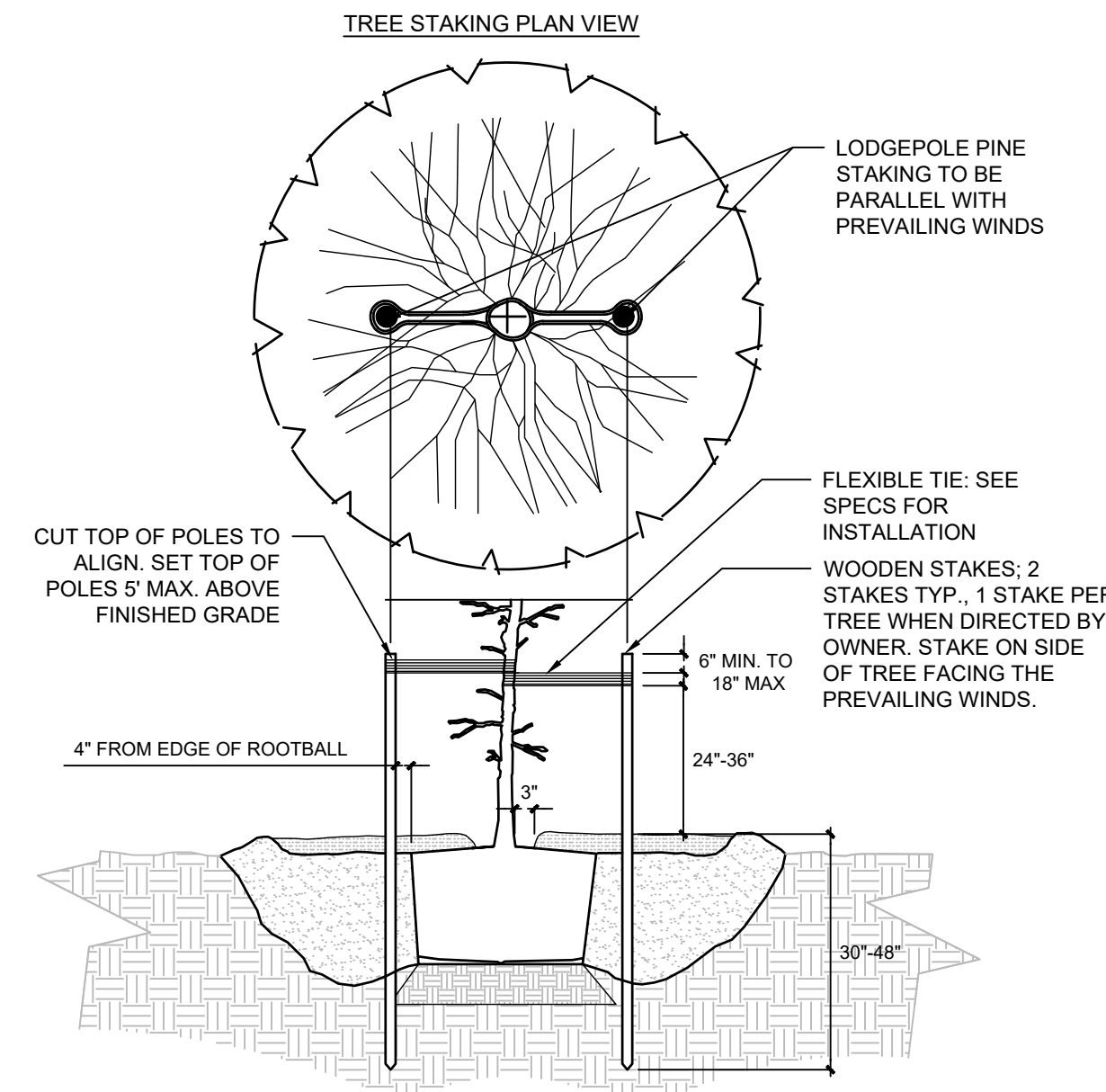
NOT TO SCALE



- GENERAL NOTES:**
- PLANTING SPECIFICATIONS SHALL REFER TO ANY SOIL AMENDMENTS REQUIRED
 - USE TYPICAL TREE STAKING DETAIL UNLESS DESIGNATED AS "TREE INSTALLATION AND PROTECTION STAKING" ON PLANS
 - PLANTS ARE TO THOROUGHLY WATERED AFTER TRANSPLANTING IS COMPLETED. SEE SPECIFICATION FOR FULL WATERING NOTES
 - REMOVE BURLAP, WIRE CAGE, AND PLASTIC CONTAINERS (SEE ROOTBALL PREPARATION DETAIL)
 - THIS TREE PLANTING DETAIL MEETS THE REQUIREMENTS OUTLINED IN THE WISCONSIN DNR "Developing Planting Specifications" (2006)
 - USE EXISTING SOIL REMOVED FROM HOLE AS BACK FILL. USE 2/3 PARTS EXISTING SOIL AND 1/3 IMPORTED TOPSOIL. FERTILIZE WITH A 20-10-5 TREE PLANTING TABLET PER THE MANUFACTURER'S RECOMMENDED RATES. DO NOT PLACE TABLETS IN THE BOTTOM OF THE HOLE

5 CONIFEROUS TREE PLANTING

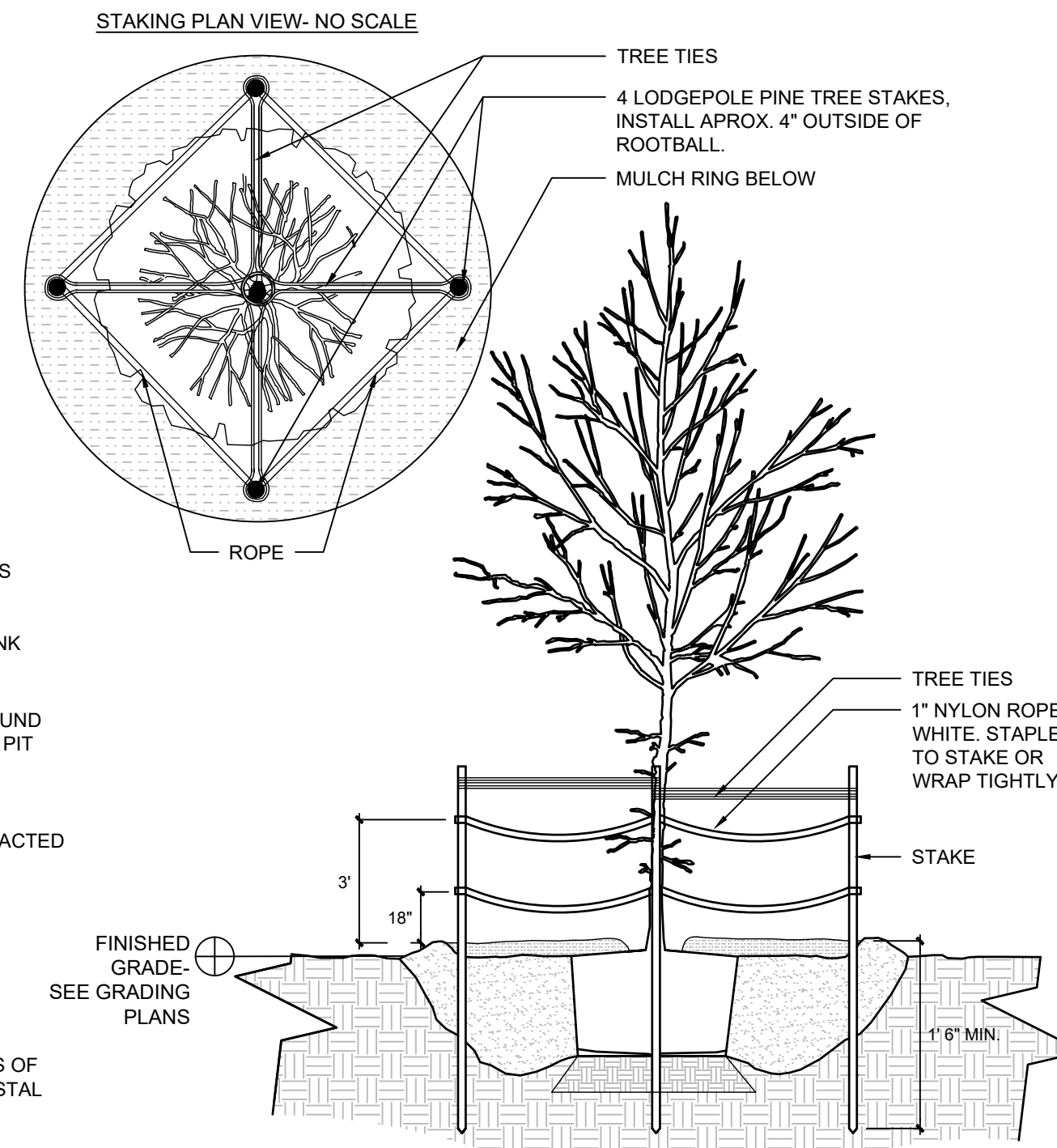
NOT TO SCALE



- GENERAL NOTES:**
- REFER TO TREE PLANTING DETAILS FOR TRANSPLANTING AND PREPARATION PROCEDURES
 - USE TYPICAL TREE STAKING DETAIL UNLESS DESIGNATED AS "TREE INSTALLATION AND PROTECTION STAKING" ON PLANS
 - STAKES SHALL BE LEVEL WITH ANOTHER
 - SEE SPECIFICATION FOR STAKING REMOVAL INFORMATION
 - DO NOT OVERLY TIGHTEN TIES
 - THIS TREE PLANTING DETAIL MEETS THE REQUIREMENTS OUTLINED IN THE WISCONSIN DNR "Developing Planting Specifications" (2006)
 - LODGEPOLES TO BE DRIVEN TO DEPTH SUFFICIENT TO WITHSTAND MODERATE FORCE BY AN ADULT PUSHING ON ANY SIDE WITHOUT DEFLECTING MORE THAN 4"

3 TYPICAL TREE STAKING

NOT TO SCALE



- GENERAL NOTES:**
- REFER TO TREE PLANTING DETAILS FOR TRANSPLANTING AND PREPARATION PROCEDURES
 - USE TYPICAL TREE STAKING DETAIL UNLESS DESIGNATED AS "TREE INSTALLATION AND PROTECTION STAKING" ON PLANS
 - STAKES SHALL BE LEVEL WITH ANOTHER
 - SEE SPECIFICATION FOR STAKING REMOVAL INFORMATION
 - DO NOT OVERLY TIGHTEN NYLON ROPE. 1-4" OF SLACK IS PREFERRED
 - THIS TREE PLANTING DETAIL MEETS THE REQUIREMENTS OUTLINED IN THE WISCONSIN DNR "Developing Planting Specifications" (2006)
 - LODGEPOLES TO BE DRIVEN TO DEPTH SUFFICIENT TO WITHSTAND MODERATE FORCE BY AN ADULT PUSHING ON ANY SIDE WITHOUT DEFLECTING MORE THAN 4"

6 TREE INSTALLATION & PROTECTION STAKING

NOT TO SCALE

2024 GREEN INFRASTRUCTURE UPGRADES FOREST HOME AVENUE SCHOOL

Owner:



SMITHGROUP

233 NORTH WATER STREET
SUITE 502
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414.615.9570
www.smithgroup.com



1836 W. Fond Du Lac Ave.
Milwaukee, WI 53205
414-622-0103

ISSUED FOR	REV	DATE
100% CD		01/25/2024

SEALS AND SIGNATURES

SITE ADDRESS

SITE # 173
1516 W FOREST HOME AVENUE
MILWAUKEE, WI 53204

DRAWING TITLE

PLANTING NOTES & DETAILS

SCALE 1/4895

PROJECT NUMBER 8317, DIVISION 1

MPS PROJECT NUMBER

DRAWING NUMBER **L500**

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2024 GREEN
INFRASTRUCTURE
UPGRADES
FOREST HOME AVENUE
SCHOOL



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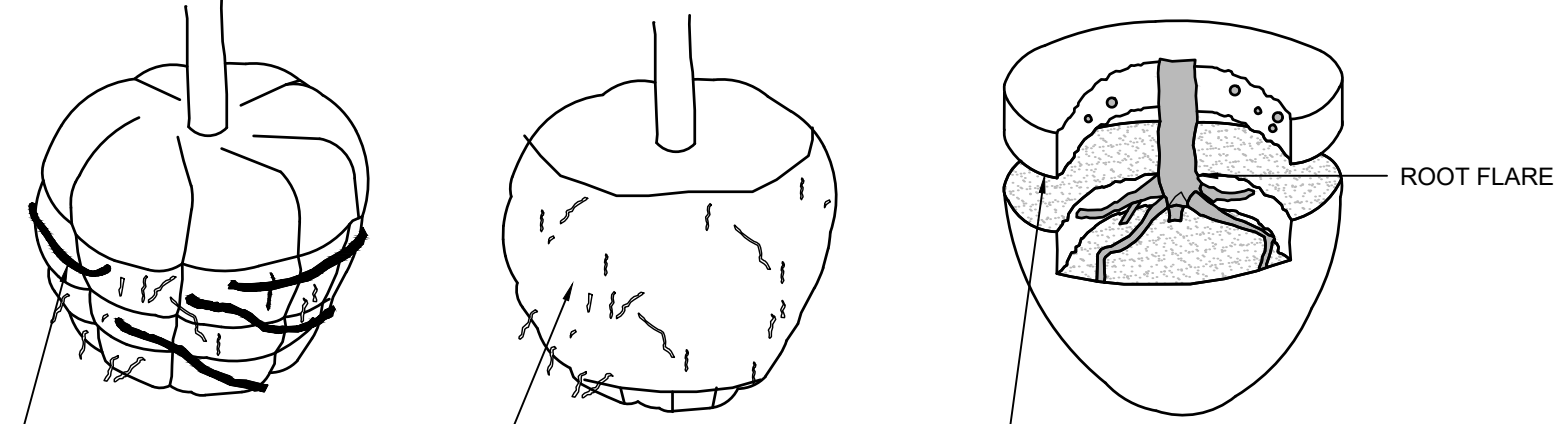
ISSUED FOR	REV	DATE
100% CD		01/25/2024

SEALS AND SIGNATURES

SITE ADDRESS
SITE # 173
1516 W FOREST HOME AVENUE
MILWAUKEE, WI 53204

DRAWING TITLE
**PLANTING
DETAILS**

SCALE 14895
PROJECT NUMBER 8317, DIVISION 1
MPS PROJECT NUMBER
DRAWING NUMBER **L501**



REMOVE STRUCTURAL ROOTS OUTSIDE OF BURLAP. ROOTS LESS THAN 1/2" IN DIAMETER MAY REMAIN

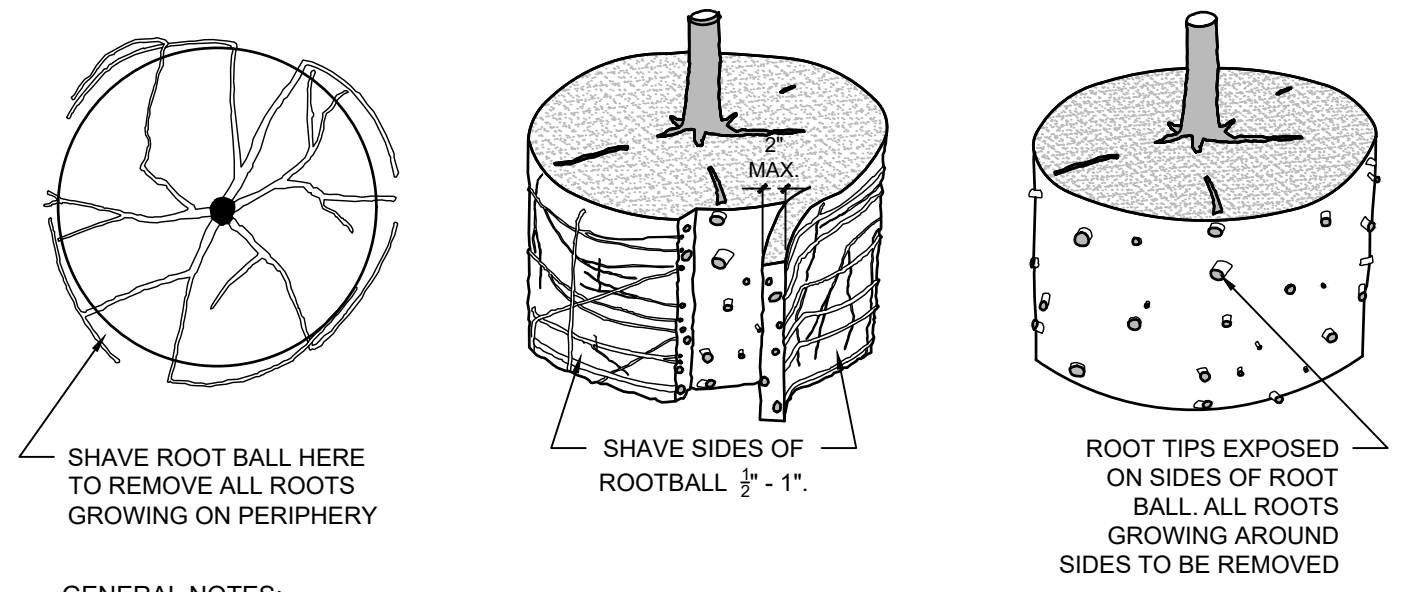
PEEL BACK BURLAP AND FULLY REMOVE OFF SIDES. CUT WIRE CAGE AND REMOVE OFF SIDES.

GENTLY REMOVE SOIL OFF OF ROOTBALL SO THAT THE TOP OF THE ROOT FLARE IS EXPOSED.

- GENERAL NOTES:
1. ALL PLANTS MUST HAVE BURLAP AND WIRE CAGE REMOVED FROM THE SIDES OF THE ROOTBALL.
 2. FOR CONTAINER PLANTS, PLASTIC CONTAINERS MUST BE FULLY REMOVED.

DNR NOTES: THIS PLANTING DETAIL CONFORMS TO TREE PLANTING GUIDELINES AS SPECIFIED IN DNR DOCUMENT 'DEVELOPING PLANTING SPECIFICATIONS' REVISED 10.25.

1 ROOT BALL PREPARATION
NOT TO SCALE



SHAVE ROOT BALL HERE TO REMOVE ALL ROOTS GROWING ON PERIPHERY

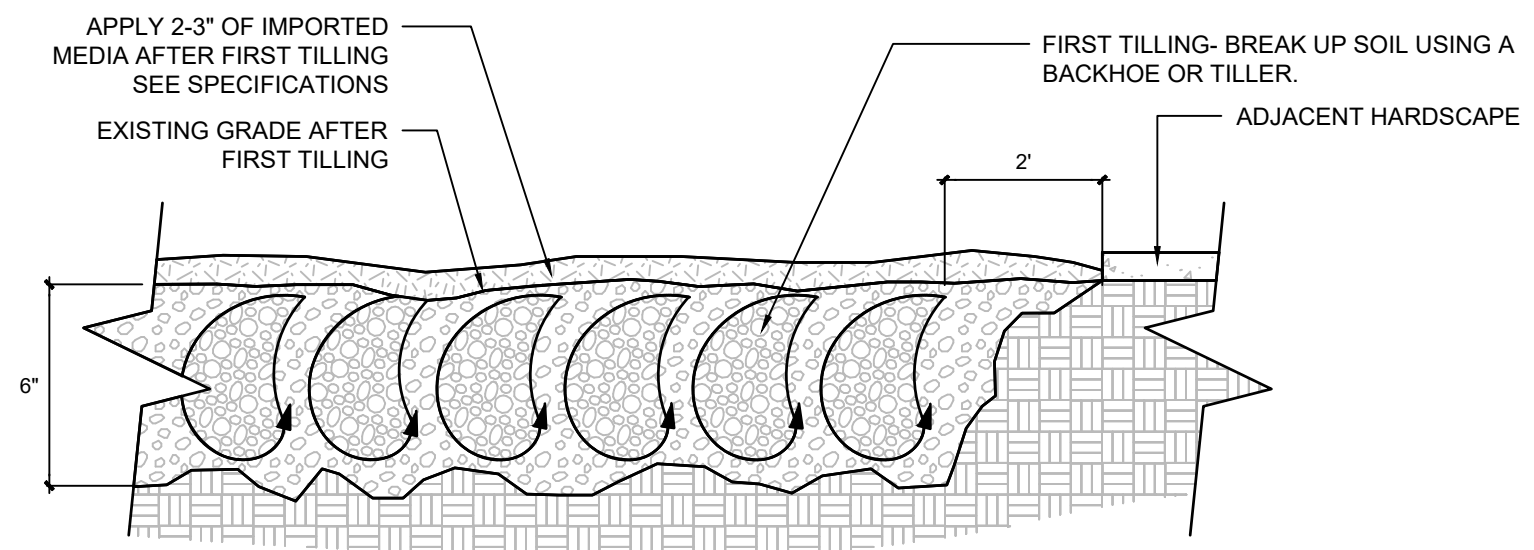
SHAVE SIDES OF ROOTBALL 1/2" - 1".

ROOT TIPS EXPOSED ON SIDES OF ROOT BALL. ALL ROOTS GROWING AROUND SIDES TO BE REMOVED

- GENERAL NOTES:
1. SHAVING TO BE CONDUCTED USING A CLEAN, SHARP BLADE OR HANDSAW.
 2. BLADE MUST BE CLEANED AND STERILIZED BETWEEN ROOT SHAVINGS/
 3. ROOT PRUNING ONLY TO OCCUR AT NURSERY OR IMMEDIATELY PRIOR TO TRANSPLANTING TO FINAL LOCATION.
 4. ONLY SHAVE 15 GAL. CONTAINER PLANTS AND LARGER, INCLUDING BALLED AND BURLAPPED PLANTS.
 5. FOR PLANT POTS UNDER 15 GAL., AGITATE ROOTS PRIOR TO PLANTING

DNR NOTES: THIS PLANTING DETAIL CONFORMS TO TREE PLANTING GUIDELINES AS SPECIFIED IN DNR DOCUMENT 'DEVELOPING PLANTING SPECIFICATIONS' REVISED 10.25.

2 ROOT BALL PRUNING
NOT TO SCALE



APPLY 2-3" OF IMPORTED MEDIA AFTER FIRST TILLING SEE SPECIFICATIONS

FIRST TILLING- BREAK UP SOIL USING A BACKHOE OR TILLER.

EXISTING GRADE AFTER FIRST TILLING

ADJACENT HARDSCAPE

STEP ONE

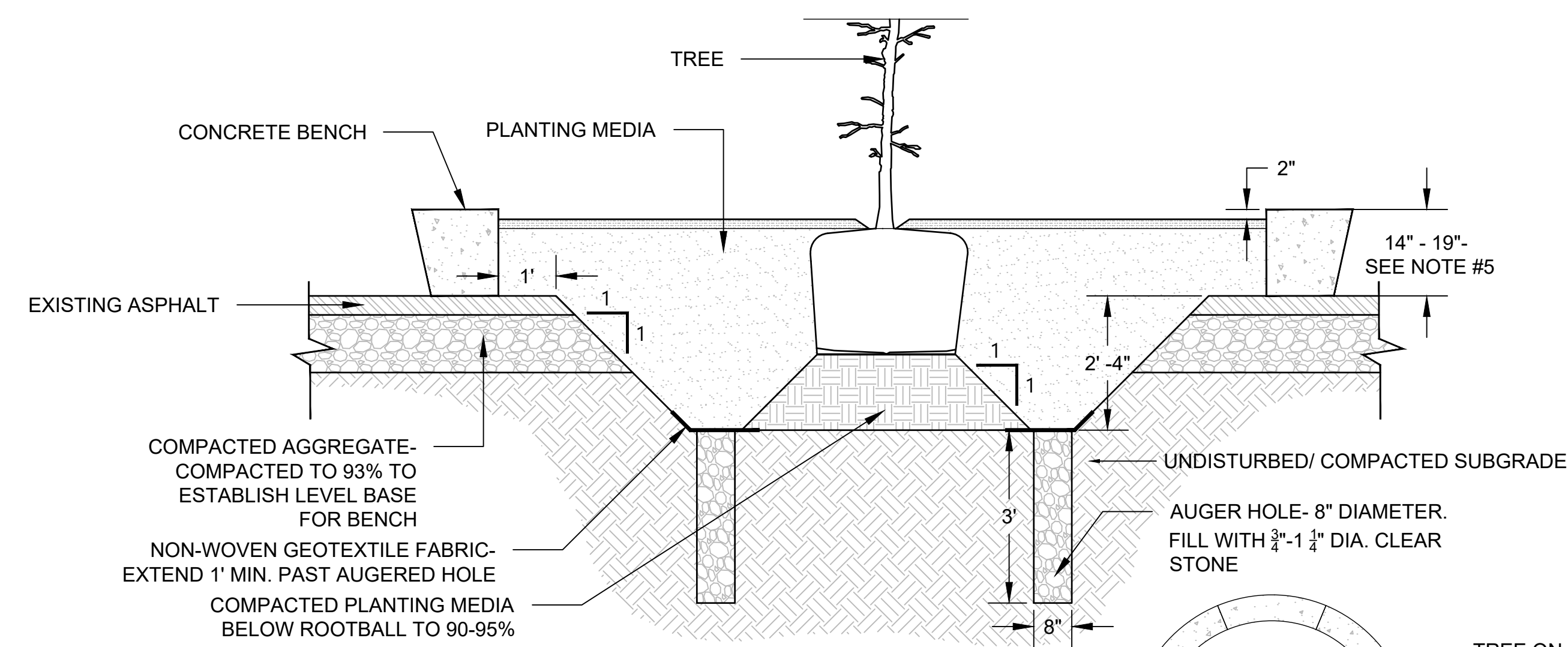
SECOND TILLING- LIGHTLY TILL EXISTING SOIL AND IMPORTED MEDIA TOGETHER. APPLY CHEMICAL AMENDMENTS AS NEEDED AFTERWARDS - SEE SPECIFICATIONS.

FINISHED GRADE TO BE AT GRADE WITH ADJACENT PAVEMENT IF NO FURTHER TREATMENT REQUIRED. IF MULCHING, THEN FINISHED GRADE IS TO BE 3" BELOW ADJACENT PAVEMENT.

STEP TWO

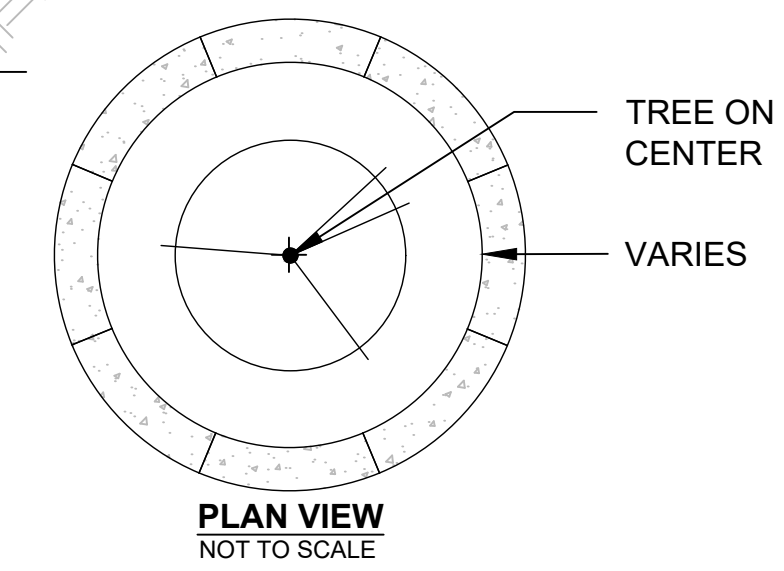
- GENERAL NOTES:
1. IF SOILS ARE AMENDED MORE THAN 1 WEEK PRIOR TO TRANSPLANTING OR MULCHING THEN COVER SURFACE WITH FABRIC OR MATTING
 2. SEE SPECIFICATIONS FOR INFORMATION ON CHEMICAL AMENDMENT AND IMPORTED MEDIA
 3. AREAS OF CHEMICAL AMENDMENT AND IMPORTED MEDIA SHOULD BE INDICATED ON PLANTING PLANS
 4. ALL PLANTS ARE TO BE INSTALLED AFTER SOIL AMENDMENTS

3 SOIL AMENDMENT
NOT TO SCALE



- GENERAL NOTES:
1. CONFIRM NO UTILITIES ARE PRESENT PRIOR TO DIGGING AND/OR AUGERING
 2. INSTALL (4) AUGERED HOLES, EVENLY SPACED, IN EACH PLANTER
 3. SET BENCHES TIGHT AND LEVEL TO ANOTHER TO CREATE SMOOTH TRANSITIONS BETWEEN UNITS
 4. STAKE TREE AND INSTALL FENCE PROTECTION AS INDICATED IN PLANS AND SPECIFICATIONS
 5. AT LEAST HALF OF BENCHES MUST BE 17"-19" ABOVE FINISH GRADE. THE REMAINING HALF MAY BE BETWEEN 14"-19" ABOVE GRADE.
 6. DIAMETER OF BENCH OPENINGS VARIES BASED ON PRODUCT- SOIL PREP INSIDE OF PRECAST PLANTER TO BE COORDINATED WITH OWNER AND DESIGNER.

4 TREE CIRCLE PLANTER
NOT TO SCALE



FILE: G:_stortcut-targets-by-id\0h2g2c6mhc_rq\A05PngZig6Baf\Project Folders\23-188 Smithgroup MPS Schools\DW\01_Forest Home Avenue\14895-D1-L300-PLANTING.dwg USER:ncgro DATE: Jan, 25 2024 TIME: 09:19 am

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	PLANTING SIZE	MATURE HT	MATURE SP	QTY
TREES							
	ACE FRE	Acer x freemanii 'Jeffsred' / Autumn Blaze Maple	5 gal	Container	50'	40'	9
	ACE JEF	Acer x freemanii 'Jeffsred' / Autumn Blaze Maple	B & B	2.5" Min. Cal.	50'	40'	16
	AME LAV	Amelanchier laevis / Allegheny Serviceberry	5 gal	Container	25'	15'	6
	CAR CAR	Carpinus caroliniana / American Hornbeam	5 gal	Container	30'	30'	8
	CAR OVT	Carya ovata / Shagbark Hickory	5 gal	Container	80'	60'	8
	CEL OCD	Celtis occidentalis / Common Hackberry	5 gal	Container	60'	60'	11
	GLE SHA	Gleditsia triacanthos inermis 'Shademaster' / Shademaster Honey Locust	B & B	2.5" Min. Cal.	60'	50'	6
	OST VIA	Ostrya virginiana / American Hophornbeam	5 gal	Container	25'	15'	8
	QUE BIR	Quercus bicolor / Swamp White Oak	5 gal	Container	75'	65'	9
	QUE BIC	Quercus bicolor / Swamp White Oak	B & B	2.5" Min. Cal.	75'	65'	7
	QUE RUB	Quercus rubra / Red Oak	B & B	2.5" Min. Cal.	75'	75'	5
	QUE SCH	Quercus x schuetti / Swamp Bur Oak	B & B	2.5" Min. Cal.	75'	70'	4
	ULM PTM	Ulmus x 'Morton Glossy' / Triumph™ Elm	B & B	2.5" Min. Cal.	60'	45'	3
SHRUBS							
	COR FAR	Cornus sericea 'Farrow' / Arctic Fire® Red Twig Dogwood	3 gal	Container	4'	4'	10
	DIE LON	Diervilla lonicera / Dwarf Bush Honeysuckle	3 gal	Container	4'	5'	7
	JUN OWL	Juniperus virginiana 'Grey Owl' / Eastern Redcedar	3 gal	Container	3'	6'	3

BIOSWALE GREEN MULCH SEED MIX



Botanical Name	Common Name	PLS Ounces/Acre
Cover Crop:		
Regreen	Regreen Winter Wheat	160
Grasses & Sedges:		
Carex brevior	Plains Oval Sedge	6
Carex bromoides	Brome Hummock Sedge	8
Carex vulpinoidea	Brown Fox Sedge	16
Penstemon digitalis	Foxglove Beardtongue	2
Rudbeckia hirta	Black-eyed Susan	3
Sporobolus heterolepis	Prairie Dropseed	36
	Total	231
	LBS	14.44

2024 GREEN INFRASTRUCTURE UPGRADES

FOREST HOME AVENUE SCHOOL

Owner:



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SEALS AND SIGNATURES

SITE ADDRESS
SITE # 173
1516 W FOREST HOME AVENUE
MILWAUKEE, WI 53204

DRAWING TITLE
PLANTING SCHEDULE

SCALE 14895

PROJECT NUMBER 8317, DIVISION 1

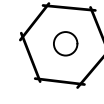
MPS PROJECT NUMBER

L502

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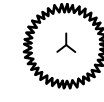
PLANT SCHEDULE

PERENNIALS & GRASSES



ALL CER Allium cernuum / Nodding Wild Onion

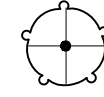
PLUG 32-CELL FLAT OR EQUIVALENT 1' 1' 31



SPO HET Sporobolus heterolepis / Prairie Dropseed

PLUG 32-CELL FLAT OR EQUIVALENT 3' 2' 20

VINES

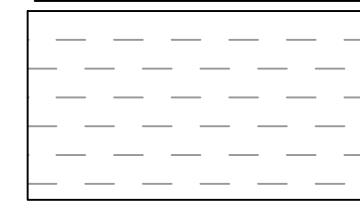


PAR QUI Parthenocissus quinquefolia / Virginia Creeper

1 gal Pot 5

SYMBOL CODE BOTANICAL / COMMON NAME CONT PLANTING SIZE MATURE HT MATURE SP SPACING QTY

PERENNIAL AREAS



MIX 1 - BIOSWALE

455 sf

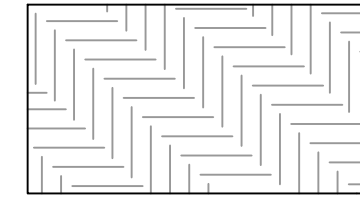
RUD FUL Rudbeckia fulgida / Coneflower
TRA OHI Tradescantia ohiensis / Spiderwort

PLUG 32-CELL FLAT OR EQUIVALENT 3'
PLUG 32-CELL FLAT OR EQUIVALENT 2'

2'
1.5'

50% @ 18" o.c.
50% @ 18" o.c.

105
105



MIX 2 - BIOSWALE

310 sf

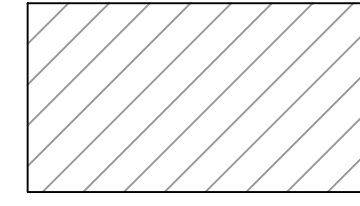
EUP PUR Eupatorium purpureum / Savannah Joe-Pye Weed
PEN DIG Penstemon digitalis / Beard-tongue

PLUG 32-CELL FLAT OR EQUIVALENT 6'
PLUG 32-CELL FLAT OR EQUIVALENT 3'

2'
1.5'

50% @ 18" o.c.
50% @ 18" o.c.

72
72



MIX 3 - BIOSWALE

473 sf

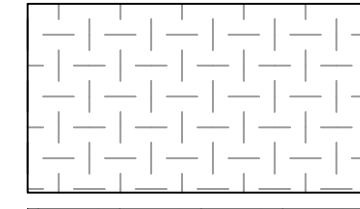
SYM NOV Symphyotrichum novae-angliae / New England Aster
ZIZ AUR Zizia aurea / Golden Alexander

PLUG 32-CELL FLAT OR EQUIVALENT 5'
PLUG 32-CELL FLAT OR EQUIVALENT 2'

3'
2'

50% @ 18" o.c.
50% @ 18" o.c.

110
110



MIX 4 - BIOSWALE

332 sf

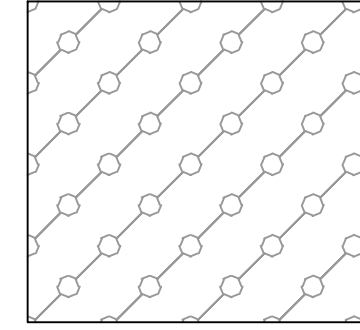
LIA SPI Liatris spicata / Blazing Star
PYC VIR Pycnanthemum virginianum / Mountain Mint

PLUG 32-CELL FLAT OR EQUIVALENT 3'
PLUG 32-CELL FLAT OR EQUIVALENT 2'

1'
2'

50% @ 18" o.c.
50% @ 18" o.c.

76
76



MICROFOREST - PERENNIALS

638 sf

ALL CER Allium cernuum / Nodding Wild Onion
ASC TUB Asclepias tuberosa / Butterfly Milkweed
DAL PUR Dalea purpurea / Purple Prairie Clover
ECH PUR Echinacea purpurea / Coneflower
GER MAC Geranium maculatum / Spotted Geranium

PLUG 32-CELL FLAT OR EQUIVALENT 1'
PLUG 32-CELL FLAT OR EQUIVALENT 2'
PLUG 32-CELL FLAT OR EQUIVALENT 2'
PLUG 32-CELL FLAT OR EQUIVALENT 3'
PLUG 32-CELL FLAT OR EQUIVALENT 2'

1'
2'
1'
2'
2'

20% @ 18" o.c.
20% @ 18" o.c.
20% @ 18" o.c.
20% @ 18" o.c.
20% @ 18" o.c.

60
60
60
60
60

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MILWAUKEE, WI 53204

DRAWING TITLE

PLANTING SCHEDULE

SCALE 14895

PROJECT NUMBER 8317, DIVISION 1

MPS PROJECT NUMBER

L503

DRAWING NUMBER