

2024 Green Infrastructure Upgrades

STORY ELEMENTARY SCHOOL, SITE #343

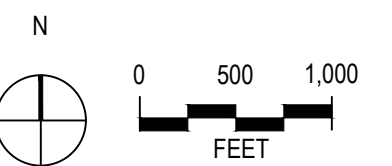
3815 W Kilbourn Avenue
Milwaukee, WI 53208

JANUARY 25, 2024
100% CONSTRUCTION DOCUMENTS

MPS Project Number: 8321
SmithGroup Project Number: 14895



PROJECT VICINITY MAP



PROJECT LOCATION MAP



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Prepared for:



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

Prepared by:

SMITHGROUP

233 NORTH WATER STREET
SUITE 502
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1836 W. FOND DU LAC AVE.
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DEDUCT ALTERNATES

DEDUCT ALTERNATE 1 - ADJUSTABLE BASKETBALL HOOP
BASE BID INCLUDES THE REMOVAL OF AN EXISTING BASKETBALL HOOP WITH ASPHALT PATCH, NEW ADJUSTABLE BASKETBALL HOOP, AND PAINTED PLAY AS INDICATED ON THE PLANS. DEDUCT ALTERNATE INCLUDES:
- NO REMOVAL OF THE EXISTING BASKETBALL HOOP, NO NEW BASKETBALL HOOP, AND NO NEW PAVEMENT MARKINGS. AREA TO REMAIN AS EXISTING.

DEDUCT ALTERNATE 2 - PAVERS
BASE BID INCLUDES THE PREPARATION AND INSTALLATION OF PAVERS AND CURB AS INDICATED ON THE PLANS. DEDUCT ALTERNATE INCLUDES:
- NO REMOVAL OF ASPHALT, NO CURB, NO PAVERS, NO RE-GRADING UNDER EXISTING SHADE STRUCTURE.
- AREA TO REMAIN THE SAME. LAWN AREAS TO MATCH EXISTING GRADES.

DEDUCT ALTERNATE 3 - NATURE PLAY
BASE BID INCLUDES THE FULL INSTALLATION OF NATURE PLAY AREA AS INDICATED ON THE PLANS. DEDUCT ALTERNATE INCLUDES:
- INSTALLATION OF CONCRETE CURB, ENGINEERED WOOD FIBER, ADA RAMP PRODUCT, AND UNDERDRAIN ONLY. NO INSTALLATION OF NATURE PLAYGROUND PLAY FEATURES.

FILE: C:\Users\kkoach\SmithGroup Companies Inc\PRJ - 14895 - Consultants\kkoach\Civil\05_Story Elementary\14895-05-G002.dwg USER: kkoach DATE: Jan, 25 2024 TIME: 09:18 pm

ABBREVIATIONS

Table of abbreviations and their corresponding full names, organized in columns. Includes terms like ABD (Abandoned), AC (Acres), ADA (Americans with Disabilities Act), etc.

SITE PREPARATION SYMBOLS

Table of symbols for site preparation, including Property Line, Limits of Construction, Protect, Remove, Utility Removal, Asphalt Surface Removal, Pavement Sawcut, Fence Removal, Fence Modification, Sediment Control Tube, and Construction Entrance.

LAYOUT AND MATERIAL SYMBOLS

Table of symbols for layout and materials, including Asphalt Pavement, Concrete Pavement, Unit Pavers, Engineered Wood Fiber, Synthetic Turf, Chain Link Fence, Low Rope Fence, Existing Building Entrance, Stepping Stones, Wood Bench, Bollard, Expanded Metal Picnic Tables, ADA Ramp, Musical Instruments, Adjustable Hoop, and Deduct Alternate.

GRADING SYMBOLS

Table of symbols for grading, including Existing Major/Minor Contour, Existing Spot Elevation, Proposed Major/Minor Contour, Grading Limits, Grade Break Line, and Deduct Alternate.

UTILITY SYMBOLS

Table of symbols for utilities, including Storm Sewer Manhole, Cleanout, Trapped Catch Basin, Drain Basin, Drain Discharge into Bioswale, Turf Maintenance Port Access, Existing Storm Sewer, Storm Sewer, Perforated Underdrain, Engineered Soil, and R-Tank Underground Cistern.

PLANTING SYMBOLS

Table of symbols for planting, including Trees, Shrubs, Vines, Existing Tree to Remain, Lawn - Sod, Lawn - Seed, No Mow Lawn Seed Mix, Microclover Seed, Bioswale Green Mulch Seed Mix, Tree Installation & Protection Staking, and various Perennial Areas (Mix 1-8).

GENERAL NOTES

- 1. PRIOR TO START OF PROJECT WORK, VERIFY ALL SITE CONDITIONS AND SUBMIT A PROJECT WORK PLAN TO THE OWNER FOR REVIEW AND COMMENT. PRESENT THE WORK PLAN AT THE OWNER'S PRE-CONSTRUCTION MEETING. DO NOT BEGIN PRIOR TO THE 'PRE-CONSTRUCTION MEETING' AND WRITTEN AUTHORIZATION TO PROCEED IS ISSUED BY THE OWNER.
2. NOTIFY THE OWNER IN WRITING OF ANY IDENTIFIED DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS PRIOR TO THE START OF WORK. DURING PERFORMANCE OF THE WORK, VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK. IN ALL CASES WHERE A CONFLICT MAY OCCUR, THE OWNER SHALL BE NOTIFIED AND WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
3. PRIOR TO THE 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 A RESULT OF CONSTRUCTION.
4. TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION, INCLUDING DAMAGES TO UTILITIES, WALKS, WALLS, DRIVES, CURBS, ETC.
5. 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.
6. ESTABLISH AND MAINTAIN SITE SECURITY UNTIL PROJECT ACCEPTANCE.
7. USE DIMENSIONS SHOWN ON DRAWINGS FOR LAYOUT OF THE WORK. DO NOT USE SCALE DIMENSIONS FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
8. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON DRAWINGS.
9. DETAILS NOTED AS TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT.
10. TAKE NOTE OF ALL GRADING AND DRAINAGE WAYS AND MAINTAIN THESE DRAIN WAYS FLOWS FREE OF OBSTRUCTIONS.
11. COORDINATE CONSTRUCTION OF PENETRATIONS, SLEEVES, VARIATIONS IN THE SLAB ELEVATIONS, AND DEPRESSED AREAS.
12. DISPOSE ALL ELEMENTS DESIGNATED FOR REMOVAL IN A LEGAL MANNER. PROVIDE RECEIPTS AND LETTERS FROM DISPOSAL SITES TO OWNER AS REQUIRED BY THE OWNER.
13. PREPARE ALL SUBGRADES IN ACCORDANCE WITH THE SPECIFICATIONS. PROVIDE PROOF OF ALL REQUIRED SOIL COMPACTION TO THE OWNER.
14. ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
15. COORDINATE WORK OF SUBCONTRACTORS AND ALL OTHER CONTRACTORS TO ENSURE ORDERLY AND EFFICIENT COMPLETIONS OF ALL WORK.
16. ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED.

2024 GREEN INFRASTRUCTURE UPGRADES STORY ELEMENTARY SCHOOL



SMITHGROUP

233 NORTH WATER STREET SUITE 502 MILWAUKEE, WI 53202 414.615.9570 www.smithgroup.com



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

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

SEALS AND SIGNATURES

SITE ADDRESS

SITE # 343 3815 W KILBOURN AVENUE MILWAUKEE, WI 53208

DRAWING TITLE

GENERAL NOTES AND LEGEND

SCALE 14895

PROJECT NUMBER 8321, DIVISION 5

MPS PROJECT NUMBER

DRAWING NUMBER

G002

PLAT OF SURVEY WITH TOPOGRAPHY

2024 GREEN INFRASTRUCTURE UPGRADES STORY ELEMENTARY SCHOOL



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Milwaukee, WI 53205
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CLIENT
MPS c/o Smith Group

SITE ADDRESS
3815 West Kilbourn Avenue, City of Milwaukee, County of Milwaukee, Wisconsin

LEGAL DESCRIPTION
PARCEL A
Unplatted lands in the Northwest 1/4 of Section 25, Township 7 North, Range 21 East, in the City of Milwaukee, Milwaukee County, Wisconsin bounded and described as follows:

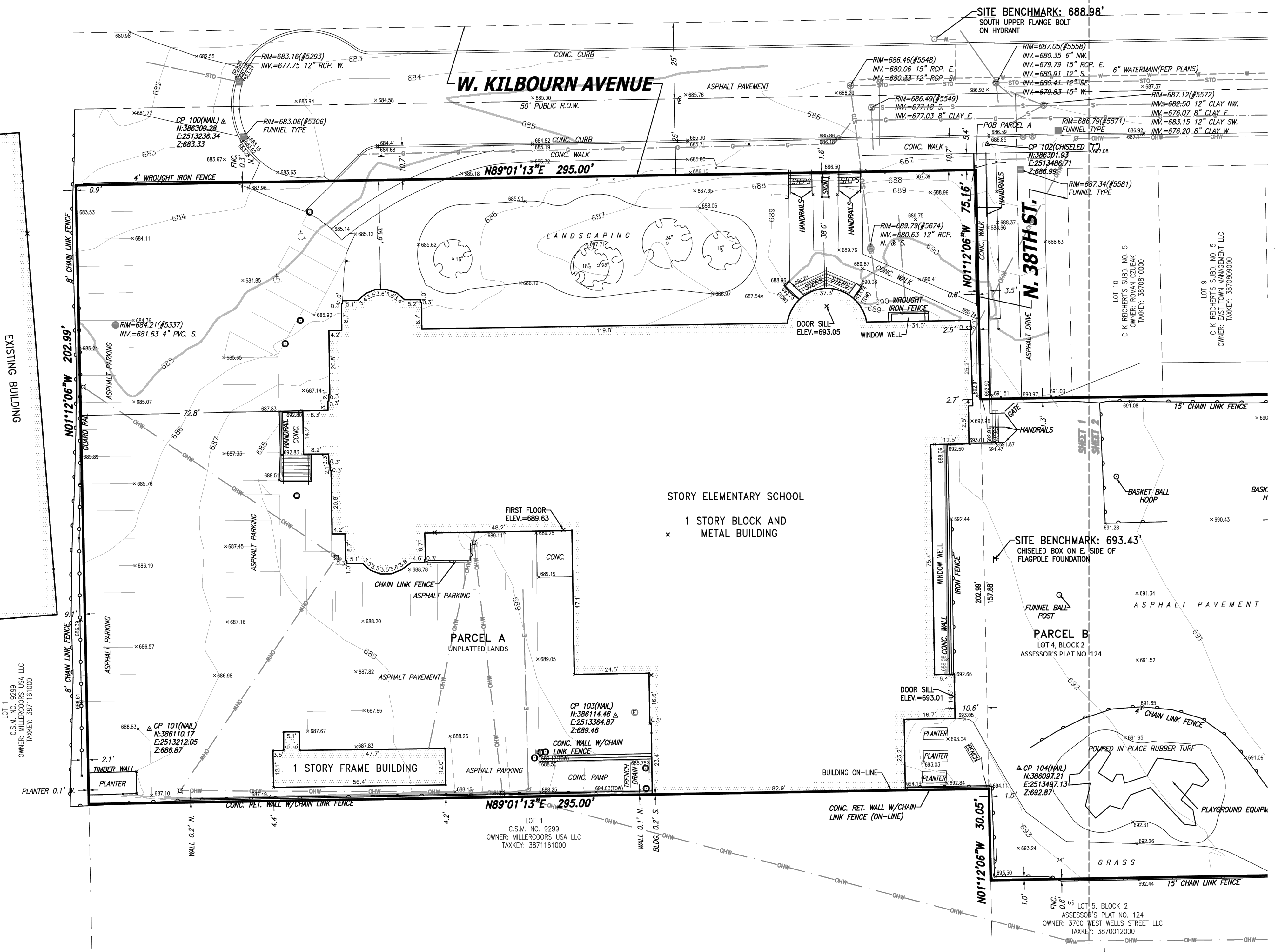
Beginning on the South line of West Kilbourn Avenue and 374.74 feet West of the West line of North 37th Street; thence South 202.99 feet to a point; thence West 295.00 feet to a point; thence North 202.99 feet to a point; thence East 295.00 feet to the point of beginning.

PARCEL B
Lot 4 Block 2 of Assessor's Plat No. 24 in the Northwest 1/4 of Section 25, Township 7 North, Range 21 East, in the City of Milwaukee, Milwaukee County, Wisconsin. Excepting therefrom the East 47.00 feet for street purposes

BASIS OF BEARINGS
Bearings are based on NAD-83, in which the South line of W. Kilbourn Ave. bears North 89°01'13" East.

VERTICAL DATUM
-Vertical Datum is based on NAVD-88.
-Starting Benchmark is the Center of Section 25, Township 7 North, Range 21 East, having an Elevation of 684.34 feet.

LAND AREA
The Land Area of the subject property is 119,027 square feet or 2.7325 acres.



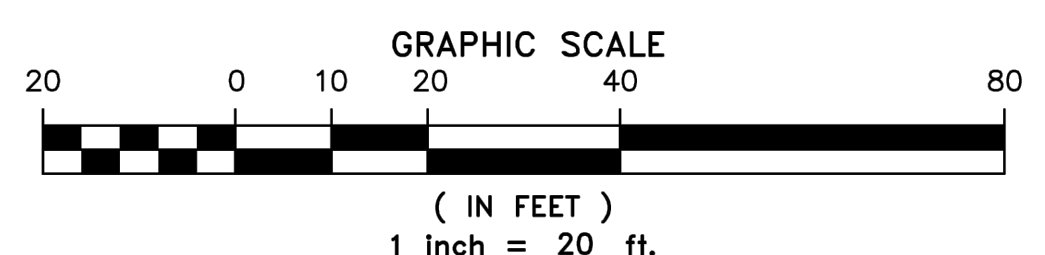
LEGEND

● INDICATES FOUND 1" IRON PIPE	☐ TELEPHONE PEDESTAL
○ INDICATES SET 1" IRON PIPE	☐ CABLE PEDESTAL
⊕ INDICATES FOUND CHISELED CROSS	☐ CONTROL BOX
⊕ SANITARY MANHOLE	☐ FIBER OPTIC PEDESTAL/SIGN
⊕ SANITARY CLEANOUT OR VENT	⊕ TRAFFIC LIGHT
⊕ SEPTIC TANK ACCESS COVER	⊕ COMMUNICATION MANHOLE
⊕ M.I.S. MANHOLE	⊕ BOLLARD
⊕ UNKNOWN MANHOLE	⊕ SOIL BORING/MONITORING WELL
⊕ STORM MANHOLE	⊕ WATER SURFACE
⊕ INLET (ROUND)	⊕ WETLANDS FLAG
⊕ INLET (SQUARE)	⊕ MARSH
⊕ CURB INLET	⊕ FLAGPOLE
⊕ STORM SEWER END SECTION	⊕ PARKING METER
⊕ GAS VALVE	⊕ SIGN
⊕ GAS METER	☐ MAILBOX
⊕ WATER VALVE	⊕ RAILROAD CROSSING SIGNAL
⊕ HYDRANT	⊕ HANDICAP SPACE
⊕ WATER MANHOLE	⊕ CONIFEROUS TREE
⊕ WATER SERVICE CURB STOP	⊕ DECIDUOUS TREE
⊕ WELL HEAD	— SANITARY SEWER
⊕ STAND PIPE	— STORM SEWER
⊕ WALL INDICATOR VALVE	— WATERLINE
⊕ POST INDICATOR VALVE	— MARKED GAS MAIN
⊕ LIGHT POLE	— MARKED ELECTRIC
⊕ SPOT/YARD LIGHT	— OVERHEAD WIRES
⊕ UTILITY POLE	— MARKED TELEPHONE
⊕ GUY POLE	— MARKED CABLE TV LINE
⊕ GUY WIRE	— BURIED FIBER OPTIC
⊕ ELECTRIC MANHOLE	— BURIED ELECTRIC SERVICE
☐ ELECTRIC PEDESTAL	— BOARD FENCE
☐ ELECTRIC METER	— CHAIN LINK FENCE
☐ TELEPHONE MANHOLE	— WIRE FENCE



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.

UTILITY	OPERATING AUTHORITY
Electric	WE Energies
Gas	WE Energies
Water	City of Milwaukee
Sanitary	City of Milwaukee, MMMSD
Storm	City of Milwaukee
Communications	AT&T, Time Warner Cable, Everstream



Date: October 25, 2023

WISCONSIN
DANIEL BEDNAR
S-2812
GERMANTOWN
WI
LAND SURVEYOR

Daniel E. Bednar
Daniel E. Bednar
Professional Land Surveyor
Registration Number S-2812

FILE: C:\Users\kkoeh\SmithGroup\Companies\inc\PRU - 14895 - Consultants\kkoeh\SmithGroup\CAD\05_Civil\05_Story Elementary\14895-D5-CY100.dwg USER: kkoeh DATE: Jan. 25 2024 TIME: 09:18 pm
LOT 1
C.S.M. NO. 9299
OWNER: MILLERCOORS USA LLC
TAXKEY: 3871161000

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

SEALS AND SIGNATURES

SITE ADDRESS
SITE # 343
3815 W KILBOURN AVENUE
MILWAUKEE, WI 53208

DRAWING TITLE
EXISTING CONDITIONS

SCALE	14895
PROJECT NUMBER	8321, DIVISION 5
MPS PROJECT NUMBER	
DRAWING NUMBER	CV100

PLAT OF SURVEY WITH TOPOGRAPHY

2024 GREEN INFRASTRUCTURE UPGRADES
STORY ELEMENTARY SCHOOL



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3815 W KILBOURN AVENUE
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SCALE 1/4" = 20'

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CLIENT
MPS c/o Smith Group

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⊙ UNKNOWN MANHOLE	+ SOIL BORING/MONITORING WELL
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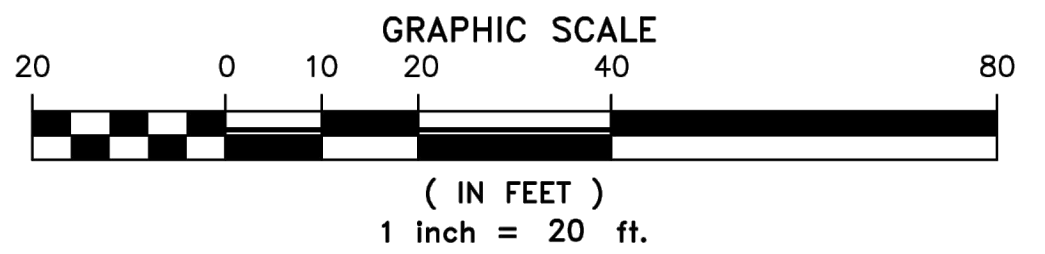
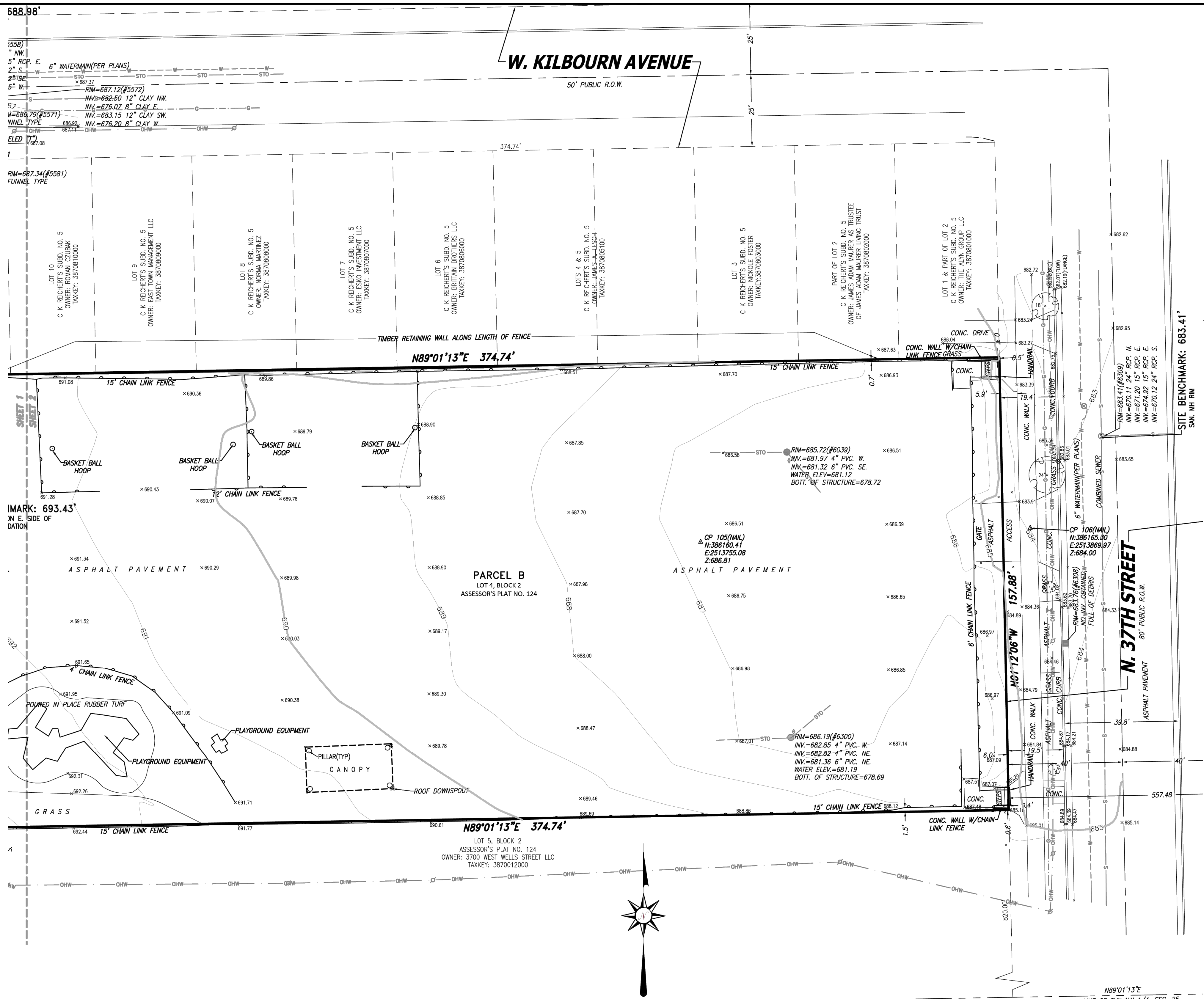
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Date: October 25, 2023



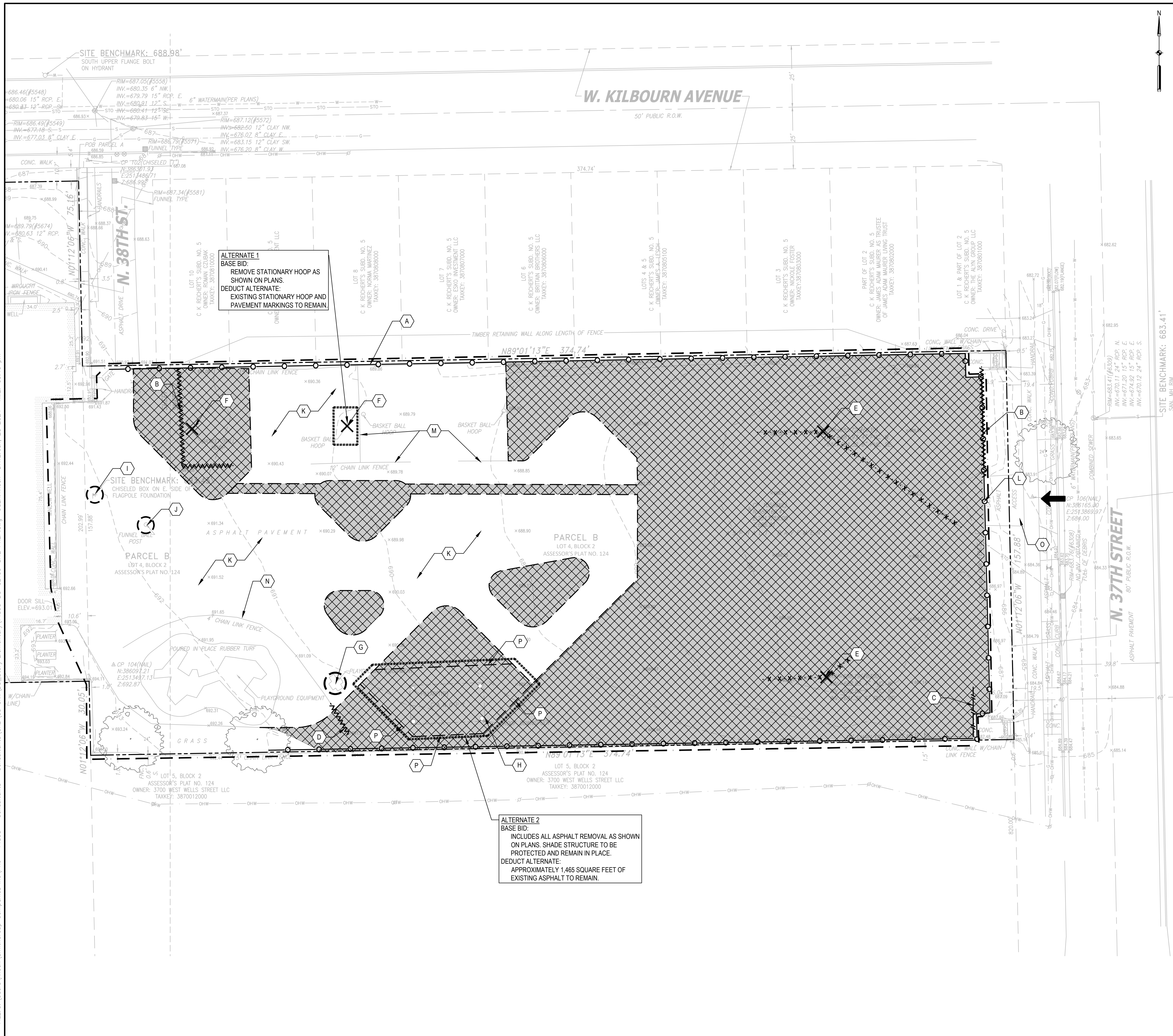
Daniel E. Bednar
Daniel E. Bednar
Professional Land Surveyor
Registration Number S-2812

UTILITY	OPERATING AUTHORITY
Electric	WE Energies
Gas	WE Energies
Water	City of Milwaukee
Sanitary	City of Milwaukee, MMSD
Storm	City of Milwaukee
Communications	AT&T, Time Warner Cable, Everstream



FILE: C:\Users\kkocho\Documents\Projects\2024\14895 - Consultants\3\Drawings\CAD\05_Civil\05_Story Elementary\14895-05-CY100.dwg USER: kkocho DATE: Jan. 25 2024 TIME: 09:18 pm

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**ALTERNATE 1
BASE BID:**
REMOVE STATIONARY HOOP AS
SHOWN ON PLANS.
DEDUCT ALTERNATE:
EXISTING STATIONARY HOOP AND
PAVEMENT MARKINGS TO REMAIN.

**ALTERNATE 2
BASE BID:**
INCLUDES ALL ASPHALT REMOVAL AS SHOWN
ON PLANS. SHADE STRUCTURE TO BE
PROTECTED AND REMAIN IN PLACE.
DEDUCT ALTERNATE:
APPROXIMATELY 1,465 SQUARE FEET OF
EXISTING ASPHALT TO REMAIN.

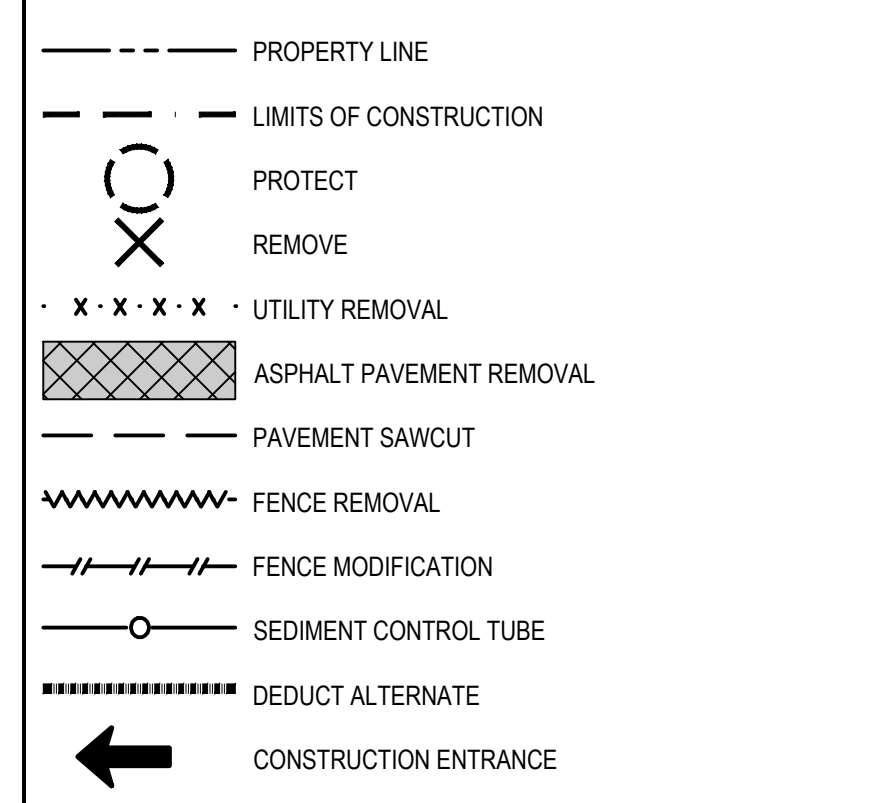
SHEET NOTES

- CONTRACTOR SHALL COORDINATE DELIVERIES TO THE SITE. NO DISRUPTION OF TRAFFIC SHALL BE ALLOWED DURING SCHOOL HOURS WITHOUT THE PERMISSION OF THE PRINCIPAL.
- EXISTING PAVEMENT ADJACENT TO OR WITHIN LIMITS OF DISTURBANCE ARE TO REMAIN UNLESS OTHERWISE NOTED TO BE REMOVED. STOCKPILE SOIL ADJACENT TO GRADING AREAS TO MINIMIZE THE LIMITS OF DISTURBANCE.

KEYED NOTES

- A** PERIMETER CHAIN LINK FENCE. TO BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES UNLESS OTHERWISE NOTED. REMOVAL OF ASPHALT UP TO CHAIN LINK FENCE SHALL NOT DAMAGE FENCE FOOTINGS OR MESH. CONTRACTOR IS RESPONSIBLE TO PROVIDE OWNER-APPROVED REPLACEMENT IF DAMAGED DURING CONSTRUCTION.
- B** REMOVE AND DISPOSE OF CHAIN LINK FENCE. FOOTING REMOVED TO FULL DEPTH.
- C** REMOVE TOP PORTION OF MESH OF CHAIN LINK FENCE. CUT POLES AND CAP AT 6" ABOVE GROUND SURFACE. SALVAGE CAP MATERIAL FROM TOP OF CHAIN LINK FENCE
- D** REMOVE CHAIN LINK FENCE TO THE NEAREST POST. FOOTING REMOVED TO FULL DEPTH. CONFIRM LOCATION WITH PROJECT OWNER.
- E** REMOVE EXISTING STORM SEWER INLET. PROVIDE INLET PROTECTION UNTIL REMOVAL AND NEW DRAINAGE IS IN PLACE.
- F** REMOVE BASKETBALL HOOP. FOOTINGS SHALL BE REMOVED 12-INCHES BELOW FINISHED SURFACE. PATCH ASPHALT WHERE SURROUNDING PAVEMENT IS TO REMAIN.
- G** EXERCISE EQUIPMENT. TO REMAIN IN PLACE. CONTRACTOR IS RESPONSIBLE TO PROVIDE OWNER APPROVED REPLACEMENT IF DAMAGED DURING CONSTRUCTION.
- H** EXISTING OVERHEAD STRUCTURE. TO REMAIN IN PLACE. PAVEMENT REMOVED BELOW. CONTRACTOR IS RESPONSIBLE TO PROVIDE OWNER APPROVED REPLACEMENT IF DAMAGED DURING CONSTRUCTION.
- I** FLAG POLE TO REMAIN IN PLACE. CONTRACTOR IS RESPONSIBLE TO PROVIDE OWNER APPROVED REPLACEMENT IF DAMAGED DURING CONSTRUCTION.
- J** FUNNEL BALL TO REMAIN IN PLACE. CONTRACTOR IS RESPONSIBLE TO PROVIDE OWNER APPROVED REPLACEMENT IF DAMAGED DURING CONSTRUCTION.
- K** EXISTING PAVEMENT MARKINGS TO BE REMOVED UTILIZING GRAY PAINT TO COVER EXISTING LINE WORK TO PREPARE FOR NEW PAVEMENT MARKINGS.
- L** EXISTING DOUBLE GATE TO REMAIN
- M** PROTECT EXISTING BASKETBALL COURT, FENCE TO REMAIN
- N** PROTECT EXISTING PLAYGROUND INCLUDING FENCE EXCEPT AS SHOWN TO BE REMOVED
- O** CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND REPAIRING ANY DAMAGES OCCURRING DURING CONSTRUCTION ACTIVITIES TO PARKING LOTS AND DRIVEWAYS. REPAIRS ARE TO BE OWNER-APPROVED.
- P** PAVEMENT SAWCUT FOR ALTERNATE 2 ONLY.

LEGEND



**2024 GREEN
INFRASTRUCTURE
UPGRADES
STORY ELEMENTARY SCHOOL**



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

SEALS AND SIGNATURES

SITE ADDRESS
SITE # 343
3815 W KILBOURN AVENUE
MILWAUKEE, WI 53208

**SITE PREPARATION AND
EROSION CONTROL**

SCALE: 1" = 20'-0"

SCALE 14895

PROJECT NUMBER 8321, DIVISION 5

MPS PROJECT NUMBER

DRAWING NUMBER **CE100**

W. KILBOURN AVENUE

N. 38TH ST.

N. 37TH STREET

SHEET NOTES

- 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.
- EXISTING OUTDOOR CLASSROOM A IS LOCATED ON THE NORTH SIDE OF THE BUILDING TO REMAIN.
- REFER TO LANDSCAPE PLANS FOR LAWN AND PLANTING LOCATIONS.
- REFER TO SITE PAVEMENT PLAN FOR PAVEMENT AND FIELD MARKINGS, INCLUDING DESIGNATED PLAY AREAS AND ELEMENTS.

KEYED NOTES

- A** OUTDOOR CLASSROOM B. EXISTING CANOPY STRUCTURE TO REMAIN WITH RELOCATED PICNIC TABLES.
- B** OUTDOOR CLASSROOM C. CONCRETE PAD WITH WOOD BENCH SEATING.
- C** SOCCER FIELD
- D** HALF BASKETBALL COURT
- E** ASPHALT PATCH AT NEW STORM SEWER PIPE. REFER TO UTILITIES PLAN, SHEET CU100
- F** BIOSWALE. REFER TO GRADING PLAN, SHEET CG100
- G** FLUSH CURB AT SYNTHETIC TURF 2 CS501
- H** 12' HEIGHT GALVANIZED CHAIN LINK FENCE 2 CS502
- I** FLUSH CURB AT ENGINEERED WOOD FIBER AREA 1 CS501
- J** EDGE CONDITION BETWEEN ASPHALT AND LANDSCAPE, TYP. 2 CS500
- K** PAVEMENT MARKINGS, REFER TO SHEET CP100
- L** 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 CSPC SAFETY GUIDELINES. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- M** EXISTING FUNNEL BALL TO REMAIN 7 CS501 8 CS501
- N** ASPHALT PATCH AT REMOVED BASKETBALL HOOP
- O** EDGE CONDITION BETWEEN EXISTING AND NEW ASPHALT 3 CS500
- P** EXISTING FLAGPOLE TO REMAIN
- Q** CONCRETE FOR MUSICAL INSTRUMENTS. INSTRUMENTS ARE SURFACE MOUNTED. CONFIRM PLACEMENT WITH OWNER PRIOR TO FINAL INSTALLATION.
- R** UNIT PAVERS WITH CONCRETE EDGE RESTRAINT 5 CS501

LEGEND

- PROPERTY LINE
- DEDUCT ALTERNATE
- ASPHALT PAVEMENT 1 CS500
- EXPANSION JOINT
- CONCRETE PAVEMENT 4 CS500 6 CS500
- UNIT PAVERS 4 CS501
- ENGINEERED WOOD FIBER 1 CS501
- SYNTHETIC TURF 2 CS501
- CHAIN LINK FENCE (HEIGHT VARIES REFER TO KEYNOTE FOR SIZE)
- LOW ROPE FENCE 5 CS502
- EXISTING BUILDING ENTRANCE
- APPROXIMATE EDGE OF PLAY EQUIPMENT
- STEPPING STONES 6 CS501 1 CS502
- WOOD BENCH (7)
- BOLLARD (2) 4 CS502
- EXPANDED METAL PICNIC TABLES RELOCATED, OWNER PROVIDED (2)
- ADA RAMP AT ENGINEERED WOOD FIBER AREA AS SPECIFIED (1)
- MUSICAL INSTRUMENTS AS SPECIFIED (3)
- 30" X 48" ADA CLEARANCE ZONE
- ADJUSTABLE AND MOVEABLE BASKETBALL HOOP
- DEDUCT ALTERNATE

ALTERNATE 3
BASE BID:
INCLUDES ALL FEATURES SHOWN ON PLANS.
DEDUCT ALTERNATE:
INCLUDES INSTALLATION OF CONCRETE CURB, ENGINEERED WOOD FIBER, ADA RAMP PRODUCT, AND UNDERDRAIN ONLY. NO INSTALLATION OF NATURE PLAYGROUND PLAY FEATURES.

ALTERNATE 1
BASE BID:
INCLUDES ALL FEATURES SHOWN ON PLANS.
DEDUCT ALTERNATE:
EXISTING STATIONARY HOOP AND PAVEMENT MARKINGS TO REMAIN. NO NEW HOOP OR PAVEMENT MARKINGS

ALTERNATE 2
BASE BID:
INCLUDES ALL FEATURES SHOWN ON PLANS.
DEDUCT ALTERNATE:
EXISTING ASPHALT TO REMAIN AS SHOWN ON DEMOLITION PLAN SHEET CE100. NO NEW PAVERS AND CONCRETE CURB

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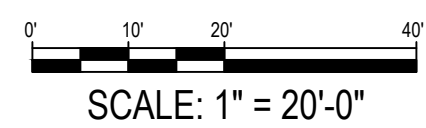
SEALS AND SIGNATURES

SITE ADDRESS

SITE # 343
3815 W KILBOURN AVENUE
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DRAWING TITLE

SITE LAYOUT



SCALE 14895

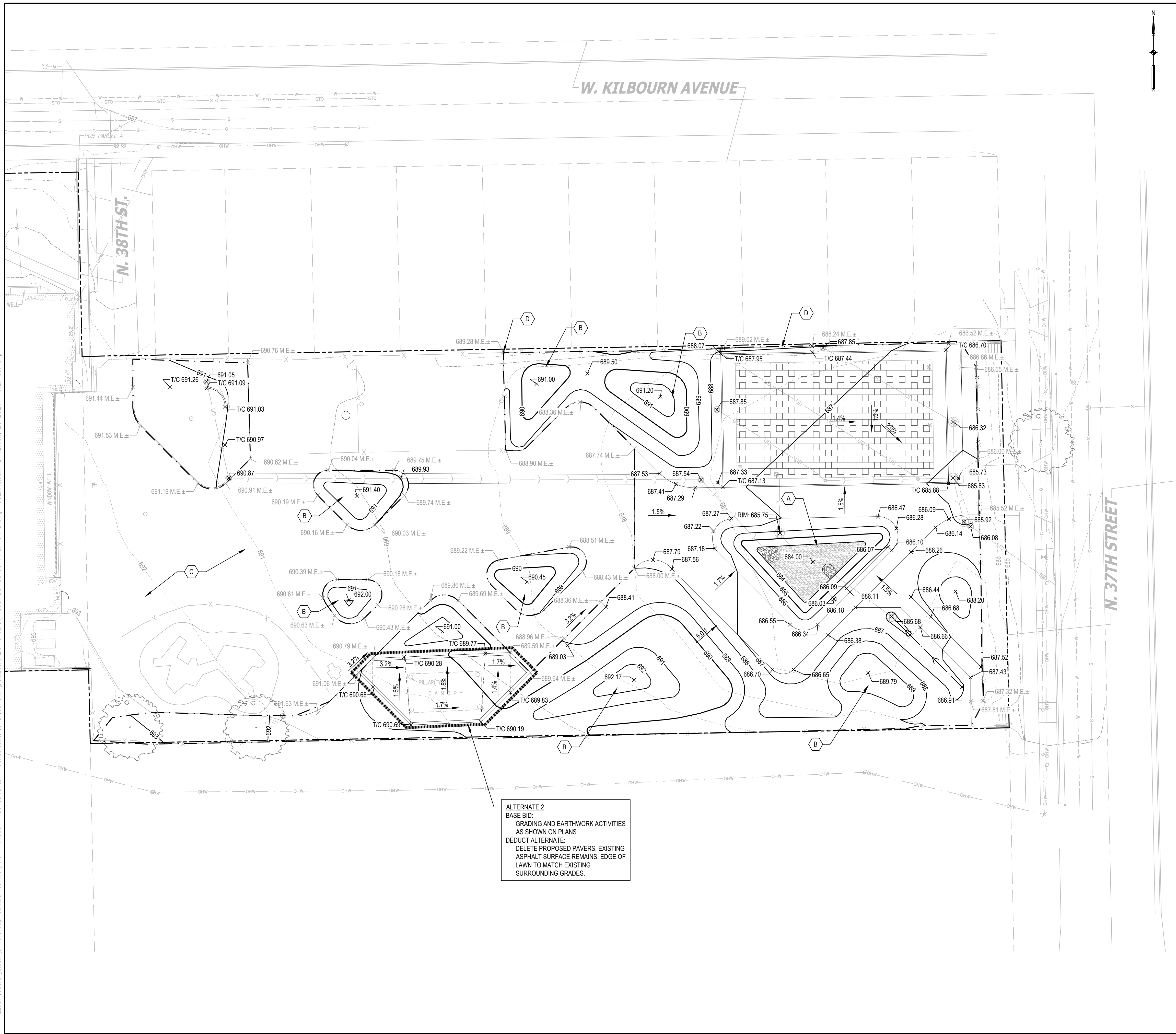
PROJECT NUMBER 8321, DIVISION 5

MPS PROJECT NUMBER

CS100

DRAWING NUMBER

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ALTERNATE 2
 BASE BID:
 GRADING AND EARTHWORK ACTIVITIES
 AS SHOWN ON PLANS
 DEDUCT ALTERNATE:
 DELETE PROPOSED PAVERS. EXISTING
 ASPHALT SURFACE REMAINS. EDGE OF
 LAWN TO MATCH EXISTING
 SURROUNDING GRADES.

SHEET NOTES

- PROPOSED SPOT ELEVATIONS SHOWN REPRESENT FINISH GROUND ELEVATION. REFER TO DETAILS FOR FOUNDATIONS AND OTHER KEY ELEVATIONS.
- EXERCISE CAUTION TO NOT DAMAGE EXISTING UTILITIES TO REMAIN IN PLACE. CONTRACTOR TO CONTACT PUBLIC AND PRIVATE UNDERGROUND UTILITY LOCATING SERVICES TO HAVE THE SITE MARKED PRIOR TO ANY DIGGING OR EARTHWORK.
- WALKING PATHS ARE GRADED TO MEET THE 1020 ADA STANDARD FOR ACCESSIBLE DESIGN: LONGITUDINAL SLOPES NO GREATER THAN 1:20 FEET AND CROSS SLOPES NO GREATER THAN 1:50 FEET OR BETWEEN 1.5%-2% MAXIMUM.

KEYED NOTES

- A** BIORETENTION
- B** GRADED MOUND
- C** NO GRADING. MAINTAIN EXISTING ASPHALT.
- D** CONTRACTOR SHALL VERIFY EXISTING GRADES ALONG NORTH PROPERTY BOUNDARY AND SUBMIT TO ENGINEER FOR REVIEW PRIOR TO GRADING ACTIVITY.

LEGEND

- 865--- EXISTING MAJOR CONTOUR
- 864--- EXISTING MINOR CONTOUR
- 861.50 x EXISTING SPOT ELEVATION
- 865— PROPOSED MAJOR CONTOUR
- 864— PROPOSED MINOR CONTOUR
- — GRADING LIMITS
- - - - GRADE BREAK LINE
- - - - PROPERTY BOUNDARY
- DEDUCT ALTERNATE
- 2.5% DRAINAGE SLOPE
- FLOW DIRECTION
- 861.50 x PROPOSED SPOT ELEVATION
- T/C 861.50 TOP OF CURB ELEVATION
- DRAINAGE SWALE
- [Pattern] ENGINEERED SOIL
- [Symbol] UNDERGROUND CISTERN
- [Symbol] COBBLE APRON FOR DRAIN DISCHARGE

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Owner:



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SEALS AND SIGNATURES

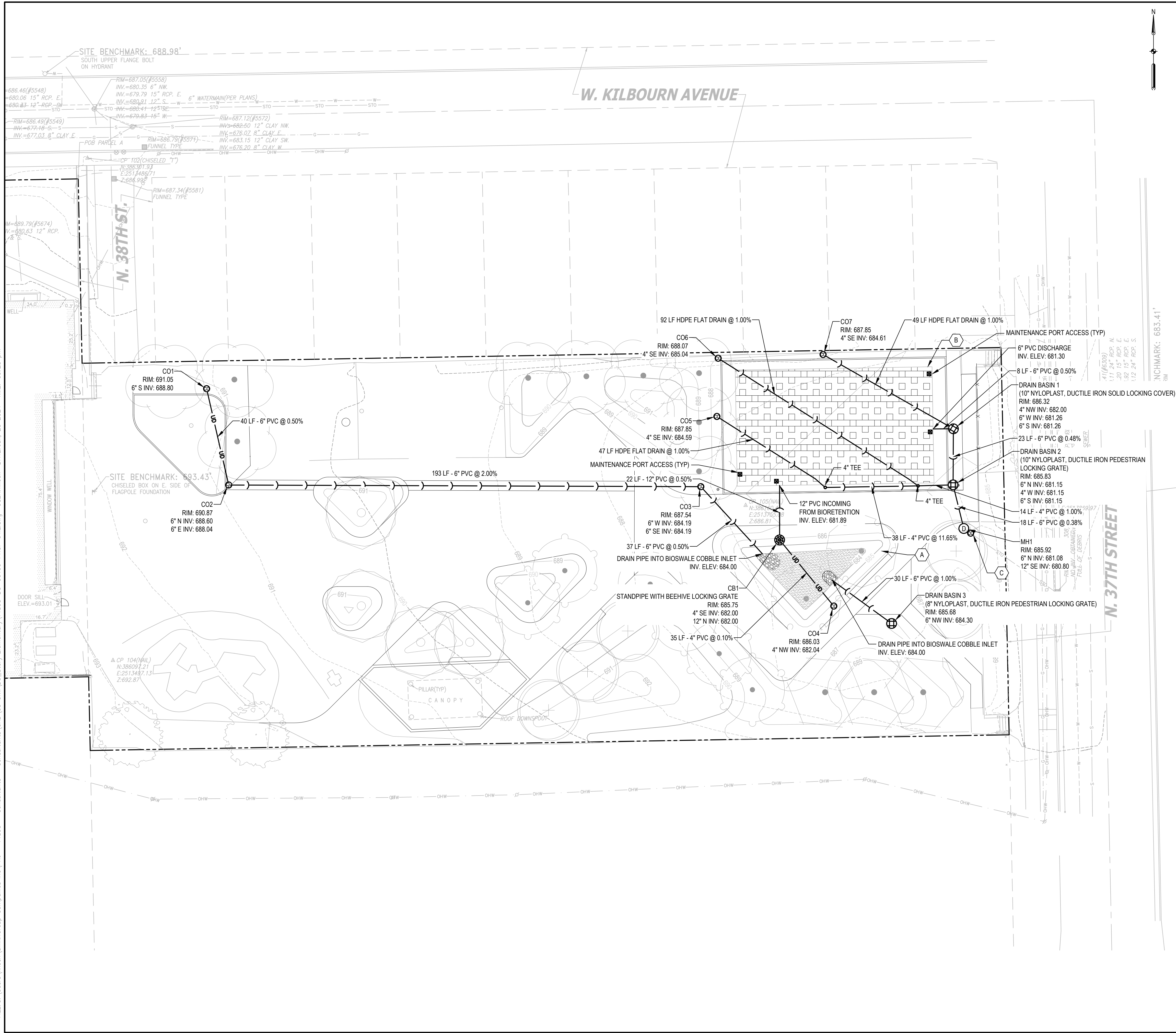
SITE ADDRESS
 SITE # 343
 3815 W KILBOURN AVENUE
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DRAWING TITLE
GRADING PLAN

SCALE: 1" = 20'-0"

SCALE 14895
 PROJECT NUMBER 8321, DIVISION 5
 MPS PROJECT NUMBER
CG100
 DRAWING NUMBER

FILE: C:\Users\kkoeh\SmithGroup\Companies\inc\PRU - 14895 - Consultants\CAD\05_Story Elementory\14895-05-CU100-PROP UTIL.dwg USER: kkoeh DATE: Jan, 25 2024 TIME: 09:25 pm



SHEET NOTES

- 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.
- 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.

KEYED NOTES

- A BIORETENTION CELL, INVERT ELEVATION 684.5.
- B R-TANK UNDERGROUND CISTERN 1 2 4 CU500
- C CONNECT TO EXISTING STORM PIPE UPSTREAM OF 35TH STREET INLET. PIPE INVERT IS APPROXIMATE AND SHALL BE CONFIRMED BY CONTRACTOR AND APPROVED BY ENGINEER PRIOR TO INSTALLATION OF NEW TRAPPED MANHOLE.

LEGEND

- D STORM SEWER MANHOLE (TRAPPED) 1 CU502
- C CLEANOUT 2 CU500
- T TRAPPED CATCH BASIN WITH BEEHIVE GRATE 3 CU500
- B DRAIN BASIN, SIZE AND COVER/GRATE AS INDICATED ON THE PLAN 6 CU502
- D DRAIN DISCHARGE INTO BIOSWALE 4 CU502
- M TURF MAINTENANCE PORT ACCESS 2 CU502
- STM — EXISTING STORM SEWER
- S — STORM SEWER, SIZE AS INDICATED ON THE PLAN
- UD — PERFORATED UNDERDRAIN, SIZE AS INDICATED ON THE PLAN
- ENGINEERED SOIL
- R-TANK UNDERGROUND CISTERN

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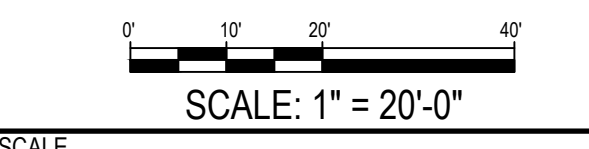
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SEALS AND SIGNATURES

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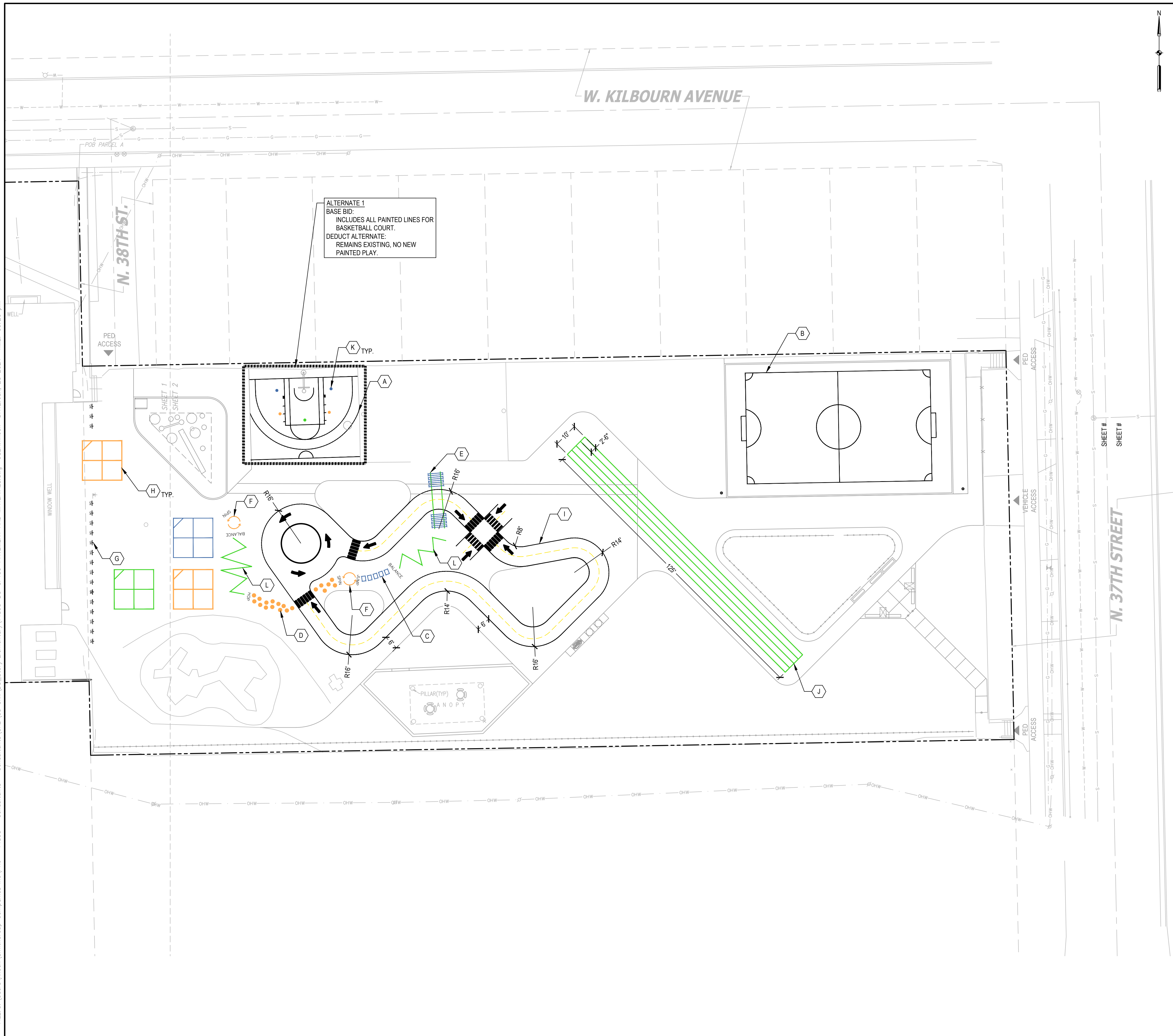
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UTILITIES PLAN



PROJECT NUMBER	14895
MPS PROJECT NUMBER	8321, DIVISION 5
DRAWING NUMBER	CU100

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ALTERNATE 1
BASE BID:
INCLUDES ALL PAINTED LINES FOR
BASKETBALL COURT.
DEDUCT ALTERNATE.
REMAINS EXISTING, NO NEW
PAINTED PLAY.

SHEET NOTES

1. REFERENCE SPECIFICATIONS FOR COLOR AND APPLICATION INFORMATION.
2. PAINTED TEXT TO BE 18" IN HEIGHT.
3. ALL STRIPING TO BE 2" WIDE UNLESS OTHERWISE INDICATED.
4. ALL PAVEMENT MARKINGS ARE PER MPS STANDARD TEMPLATES UNLESS OTHERWISE STATED.
5. PREP SURFACE. REFER TO SITE PREPARATION AND EROSION CONTROL PLANS, SHEET CE100.
6. A COPY OF MPS' STANDARD LINE AND GAME STRIPING DETAILS IS AVAILABLE UPON REQUEST FROM THE DIVISION OF FACILITIES AND MAINTENANCE SERVICES, (414) 283-4600.
7. ALL DIMENSION GIVEN TO CENTER OF LINES.

KEYED NOTES

- A HALF BASKETBALL COURT 1 CP501
- B SOCCER FIELD 1 CP500
- C 1'-6" X 2'-0" RECTANGLES, SPACED AT APPROX. 8" APART
- D 1'-6" DIAMETER SOLID CIRCLES RANDOMLY SPACED AT 2'-0" - 2'-6" APART
- E RAILROAD CROSSING MARKINGS ON ASPHALT, STANDARD MPS TEMPLATE
- F 5' DIAMETER SPIN ARROWS MARKINGS ON ASPHALT, STANDARD MPS AGILITY PATH TEMPLATE
- G LINE-UP SIGN MARKINGS ON ASPHALT, STANDARD MPS TEMPLATE
- H FOUR SQUARE MARKINGS ON ASPHALT, STANDARD MPS TEMPLATE
- I TRAFFIC GARDEN MARKINGS ON ASPHALT, TRAFFIC SYMBOLS AND STRIPE WIDTH ARE STANDARD MPS TEMPLATE
- J RUNNING LANES MARKINGS ON ASPHALT
- K HORSE MARKINGS ON ASPHALT, STANDARD MPS TEMPLATE
- L JAGGED BALANCE LINE MARKINGS ON ASPHALT, LINES AT 5'-12" LENGTH SPACED RANDOMLY TO CREATE ACUTE ANGELS

LEGEND

- PANTONE 7683
- PANTONE 802 C
- PANTONE 102C
- PANTONE 804 C
- WHITE
- DEDUCT ALTERNATE

SHEETS MUST BE
PRINTED IN COLOR

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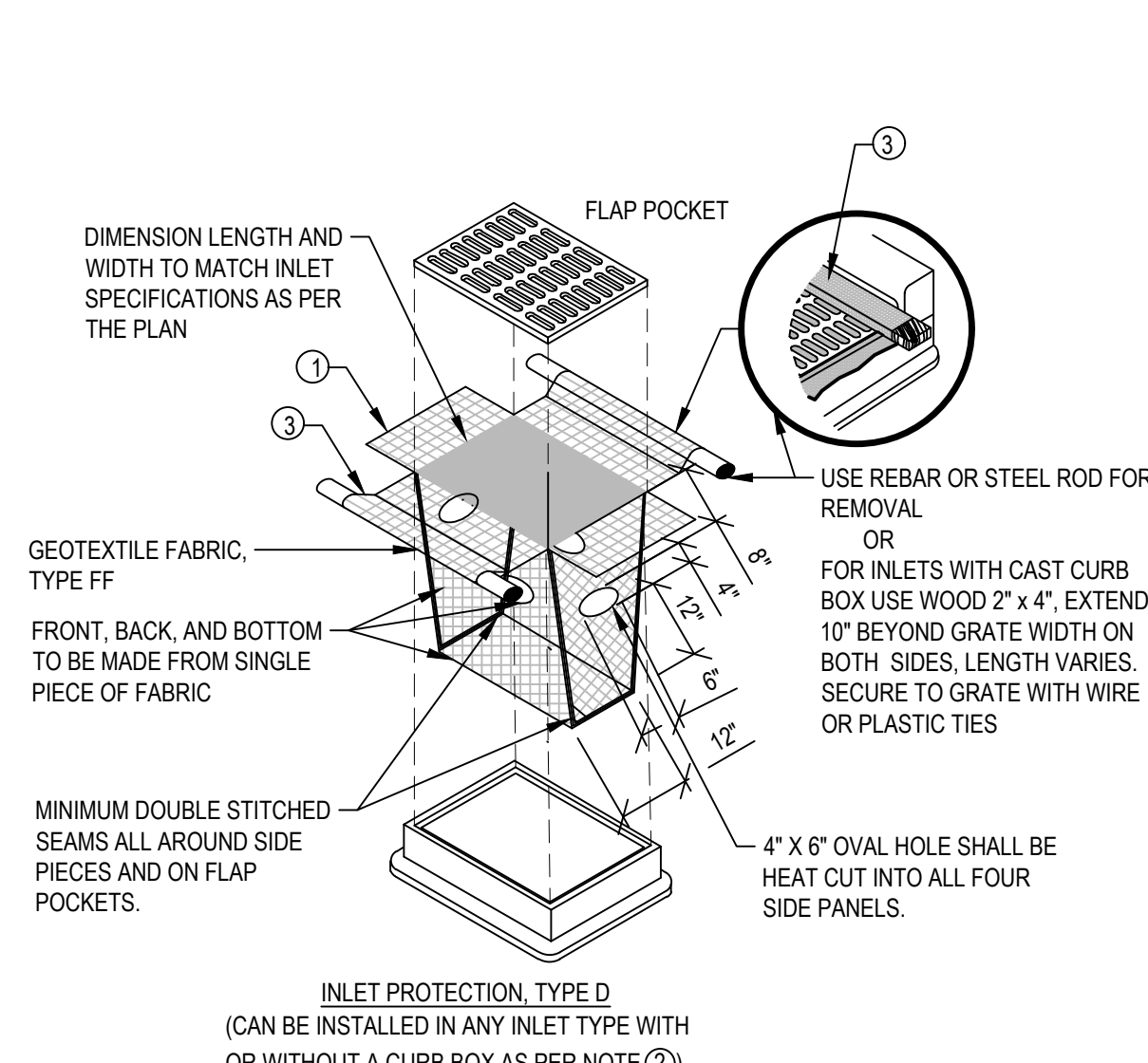
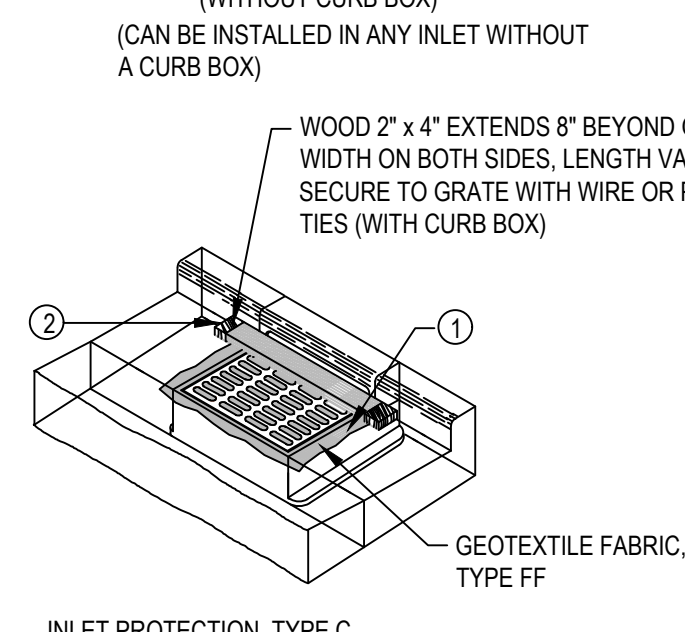
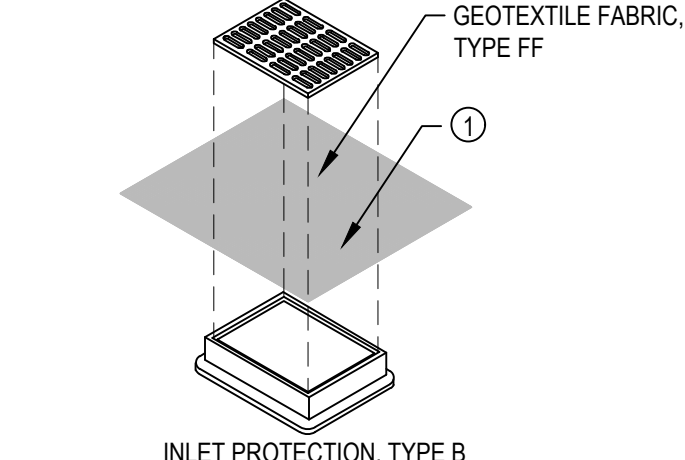
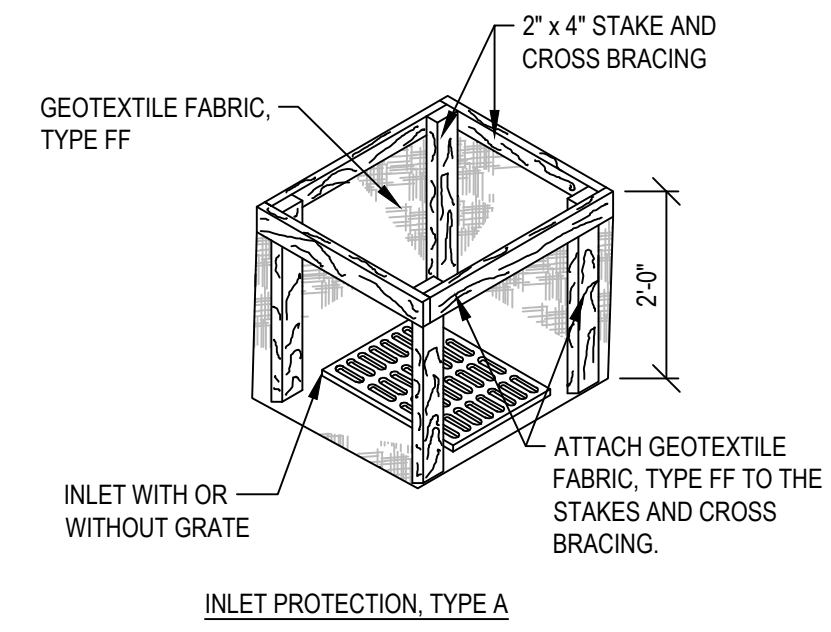
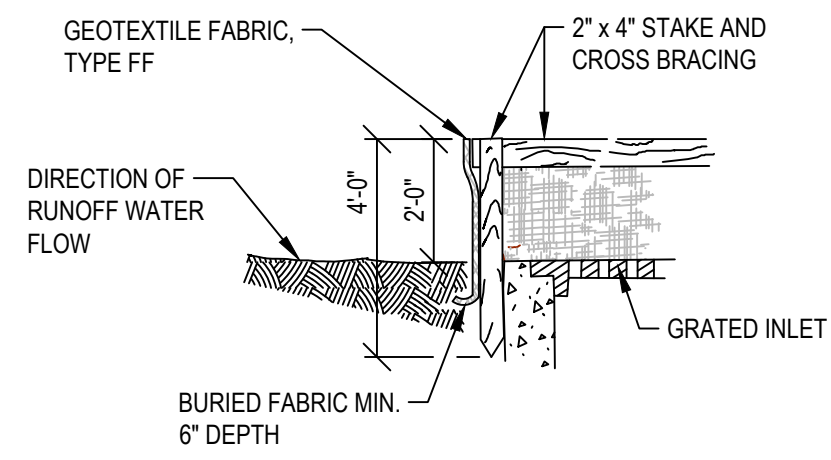
DRAWING TITLE
PAVEMENT MARKINGS PLAN

SCALE
0' 10' 20' 40'
SCALE: 1" = 20'-0"

PROJECT NUMBER 14895

MPS PROJECT NUMBER 8321, DIVISION 5

DRAWING NUMBER **CP100**



GENERAL NOTES:

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
2. FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2x4.

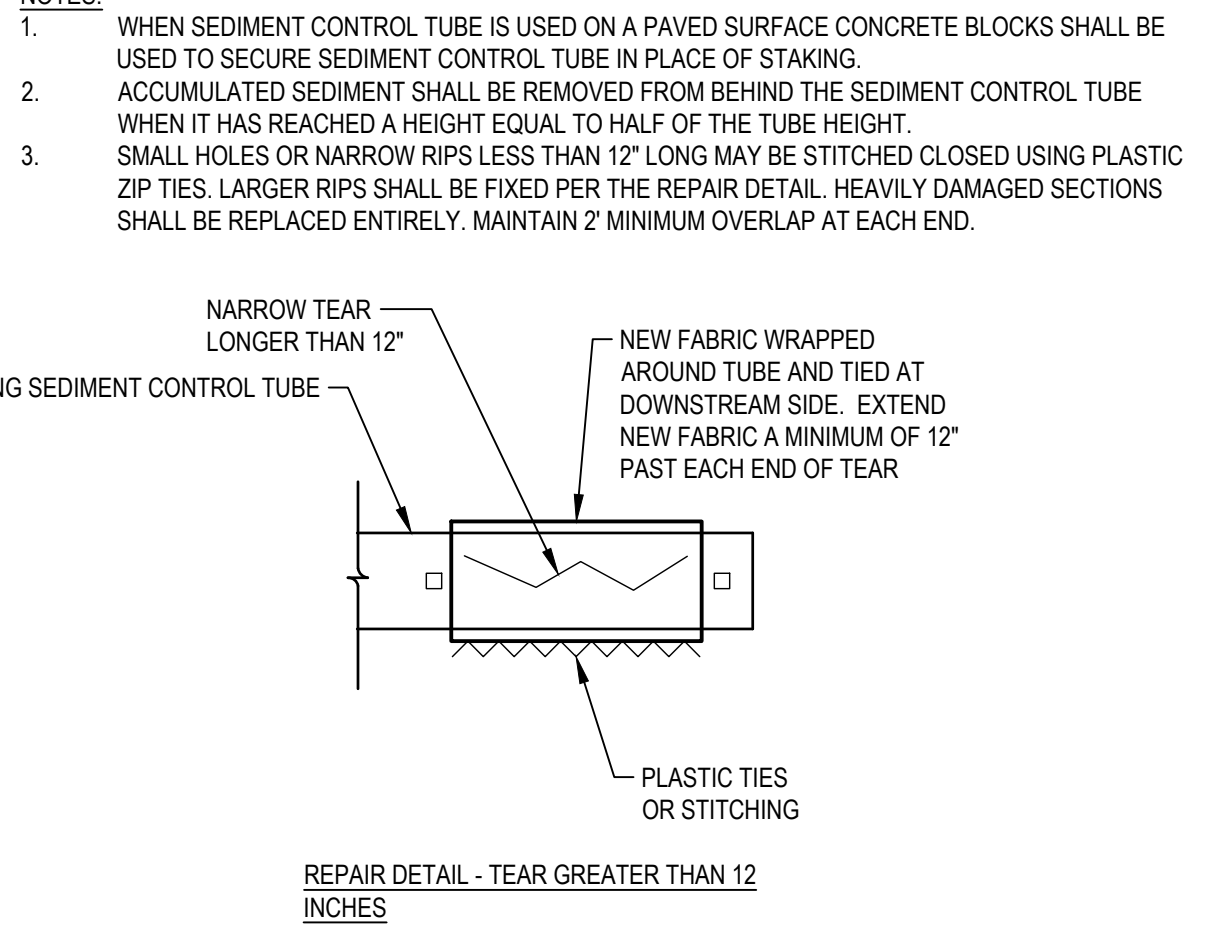
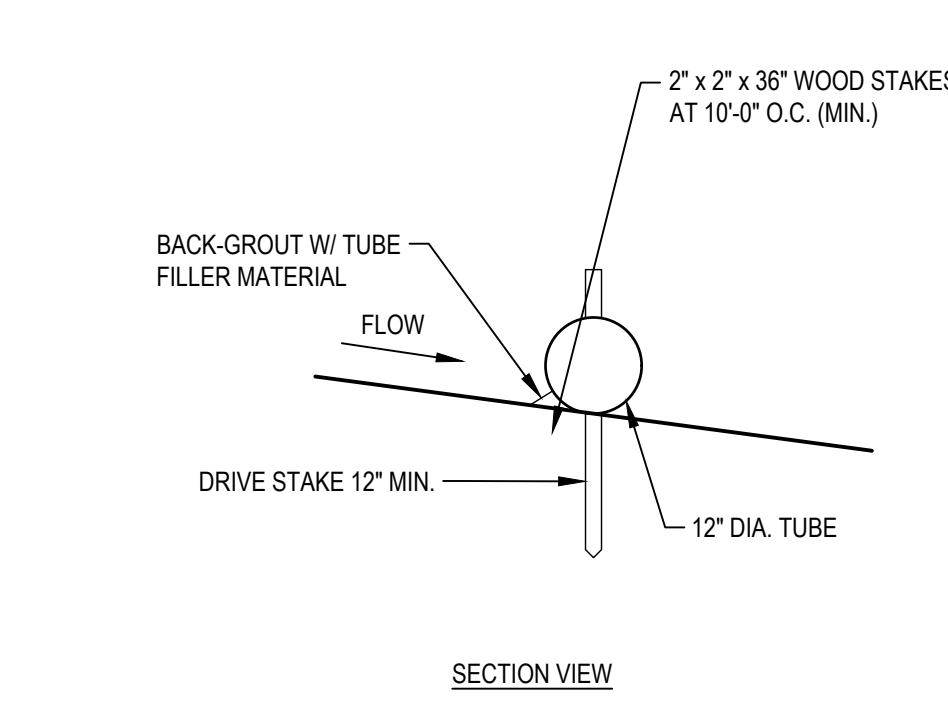
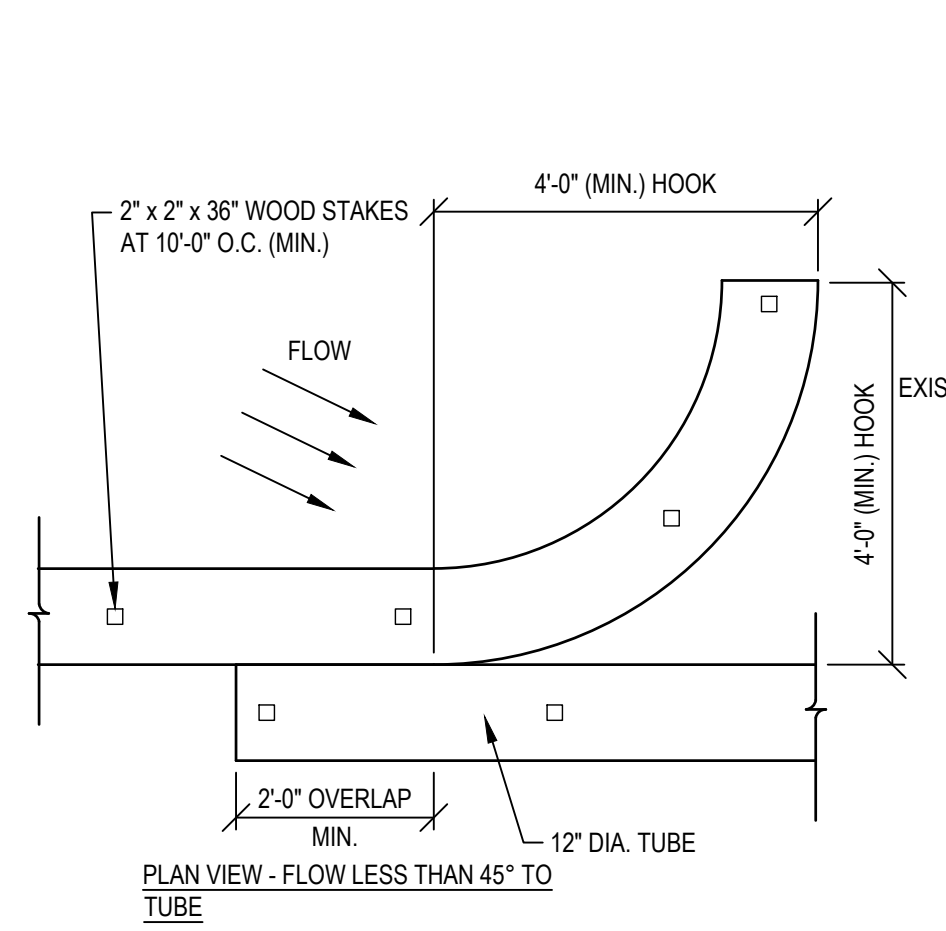
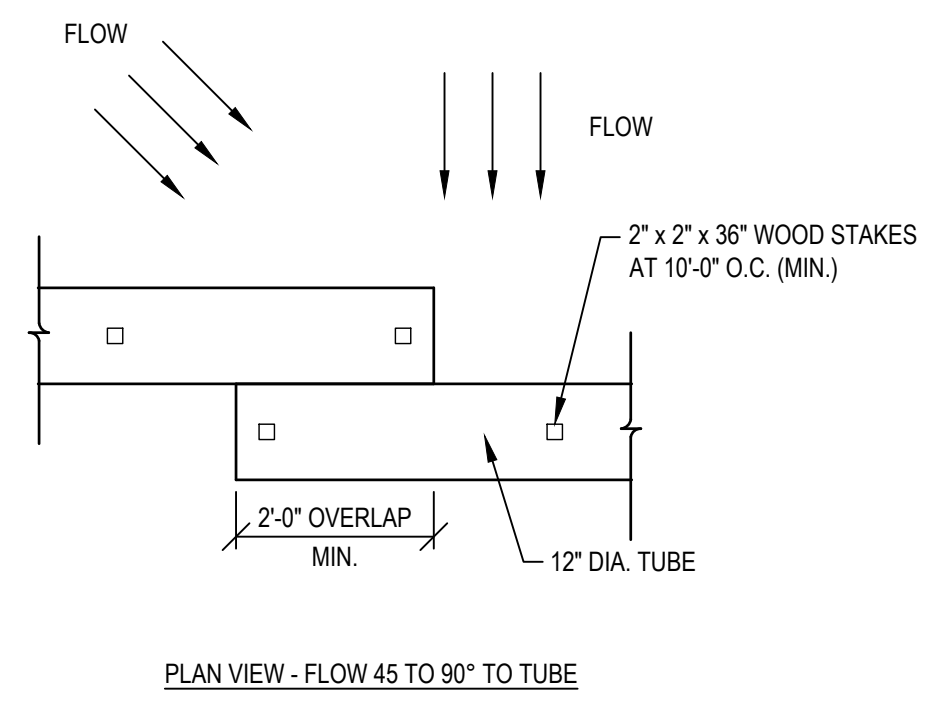
INSTALLATION NOTES:

TYPE B & C
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

1 INLET PROTECTION

SCALE: 1"=2'



2 SEDIMENT CONTROL TUBE

SCALE: 1"=2'

2024 GREEN INFRASTRUCTURE UPGRADES
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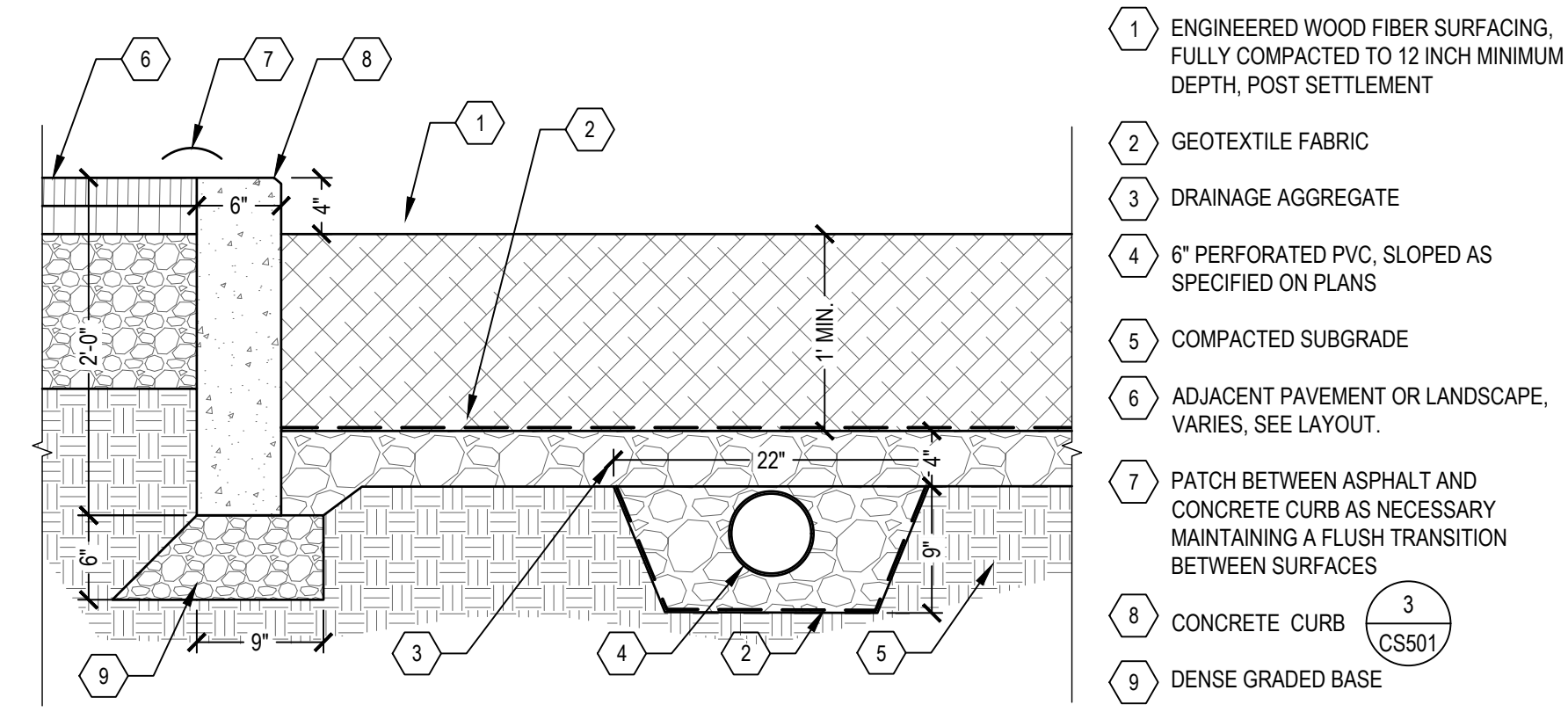
SEALS AND SIGNATURES

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SITE # 343
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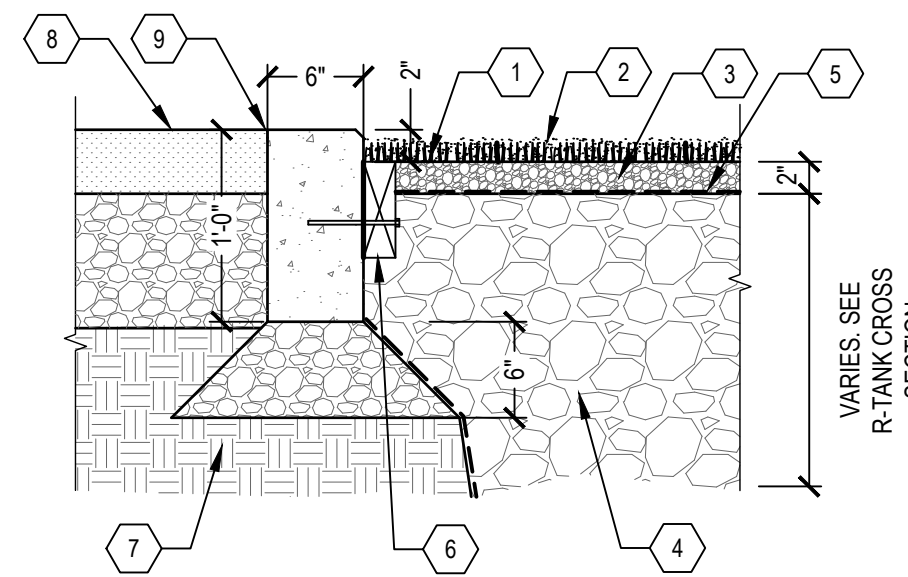
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EROSION CONTROL DETAILS

SCALE: 14895
PROJECT NUMBER: 8321, DIVISION 5
MPS PROJECT NUMBER: CE500
DRAWING NUMBER

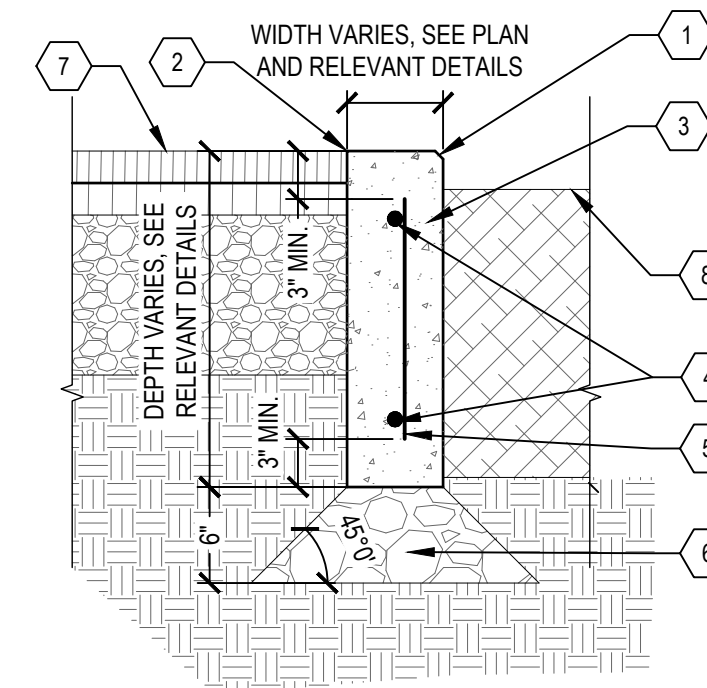
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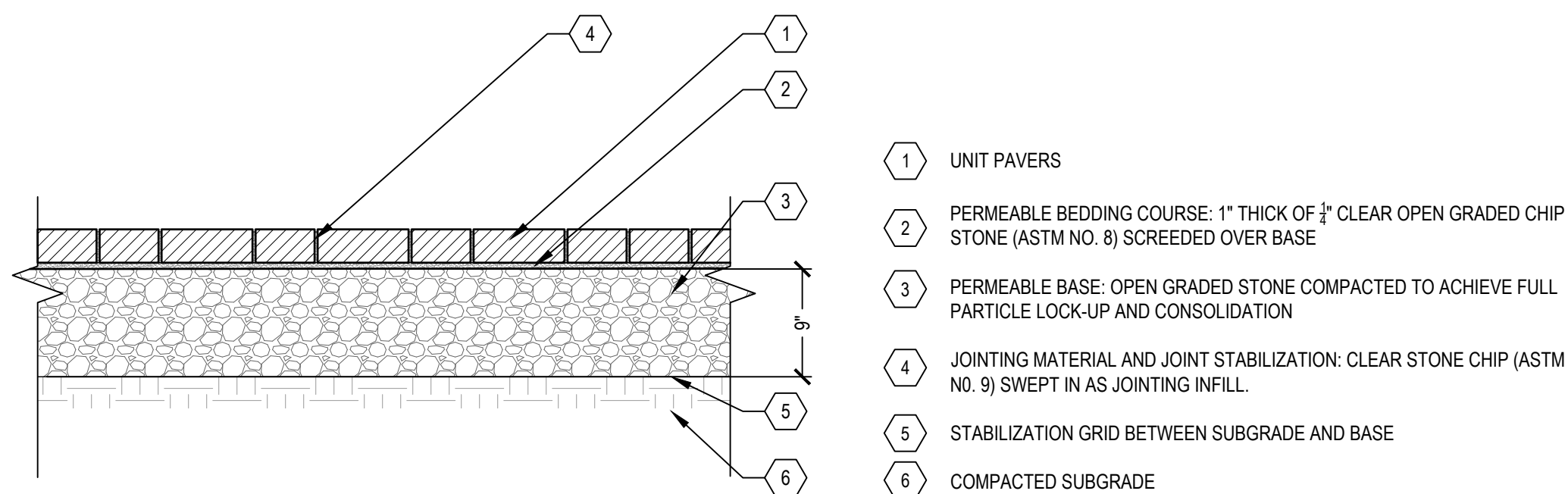
1 FLUSH CURB AT ENGINEERED WOOD FIBER AREA SCALE: 1" = 1'



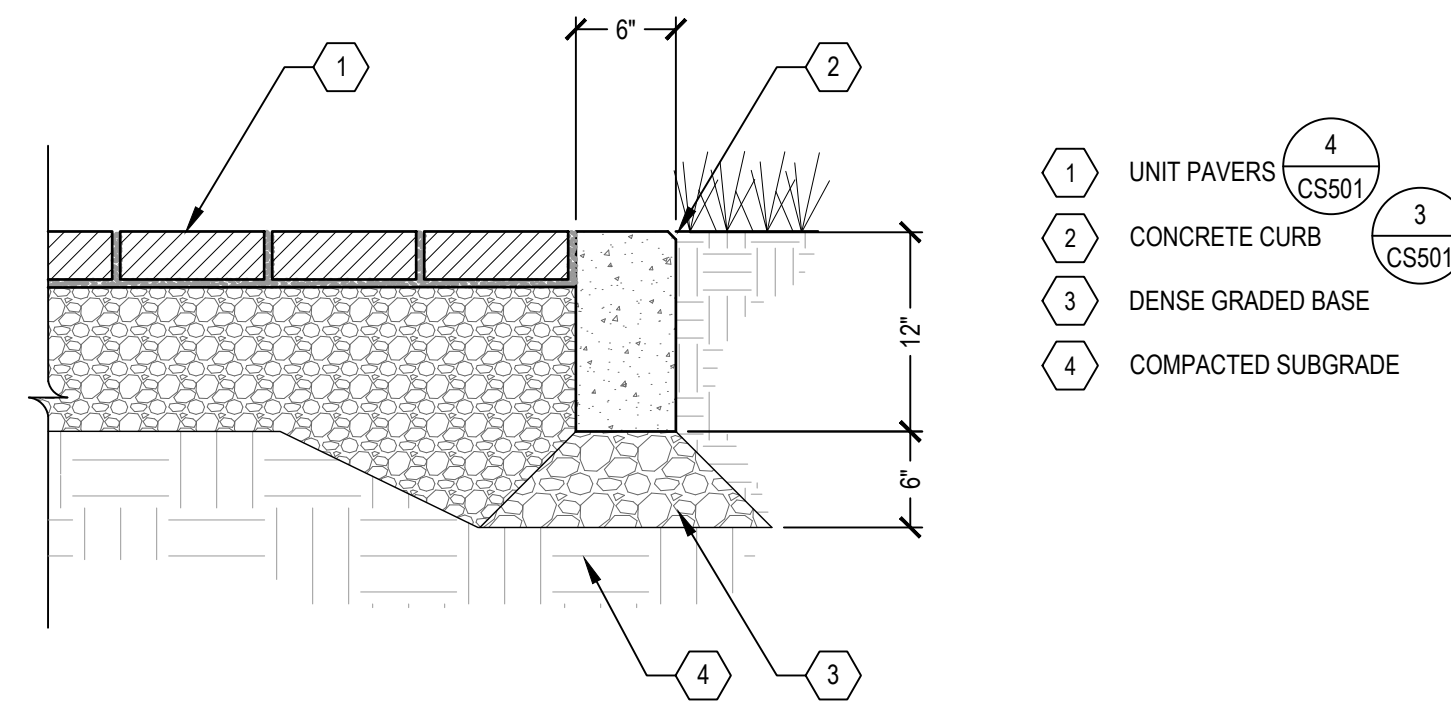
2 FLUSH CURB AT SYNTHETIC TURF SCALE: 1" = 1'



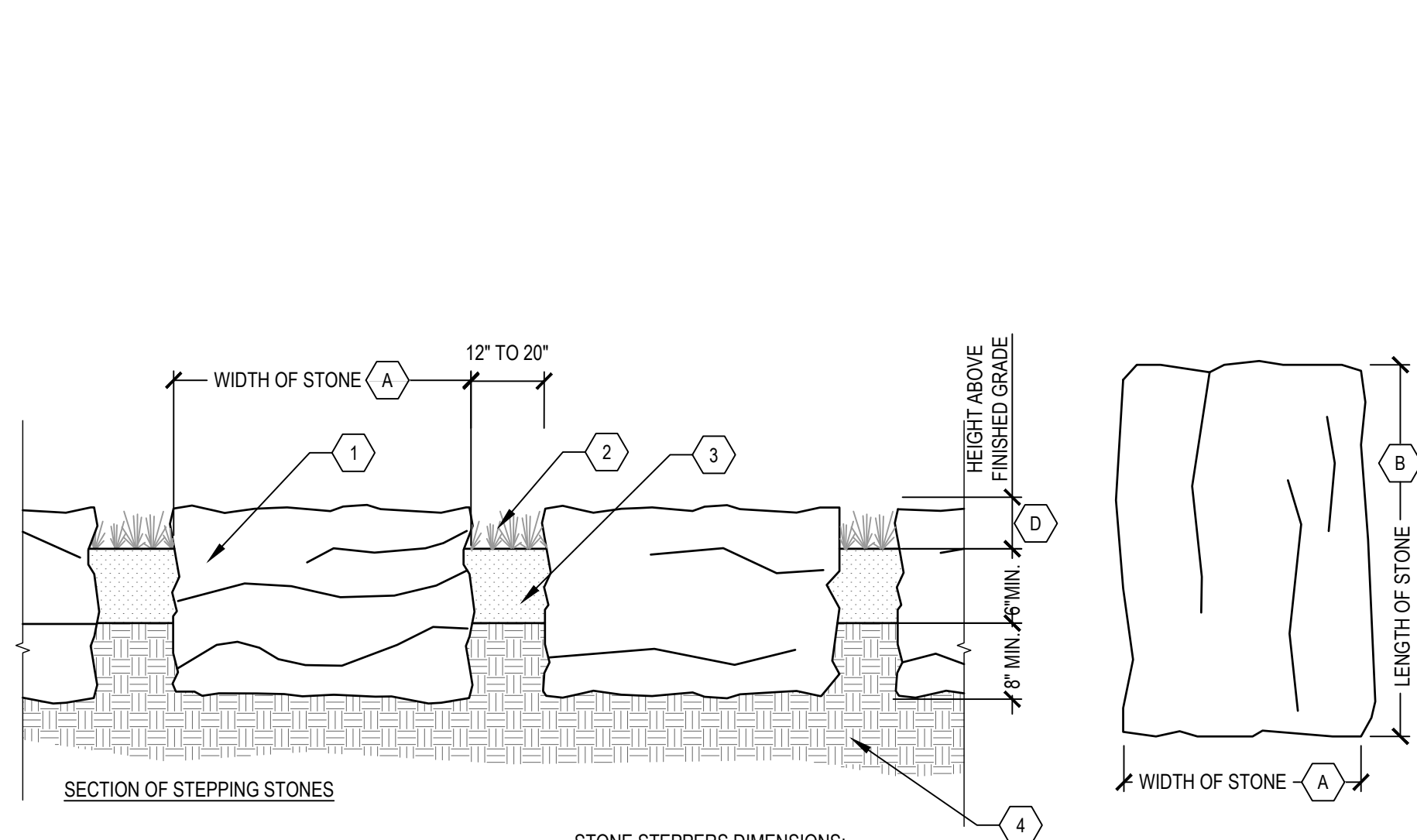
3 TYPICAL CURB DETAIL SCALE: 1" = 1'



4 UNIT PAVERS SCALE: 1" = 1'



5 UNIT PAVERS WITH CONCRETE EDGE RESTRAINT SCALE: 1" = 1'



6 STEPPING STONES SCALE: 1" = 1'

7

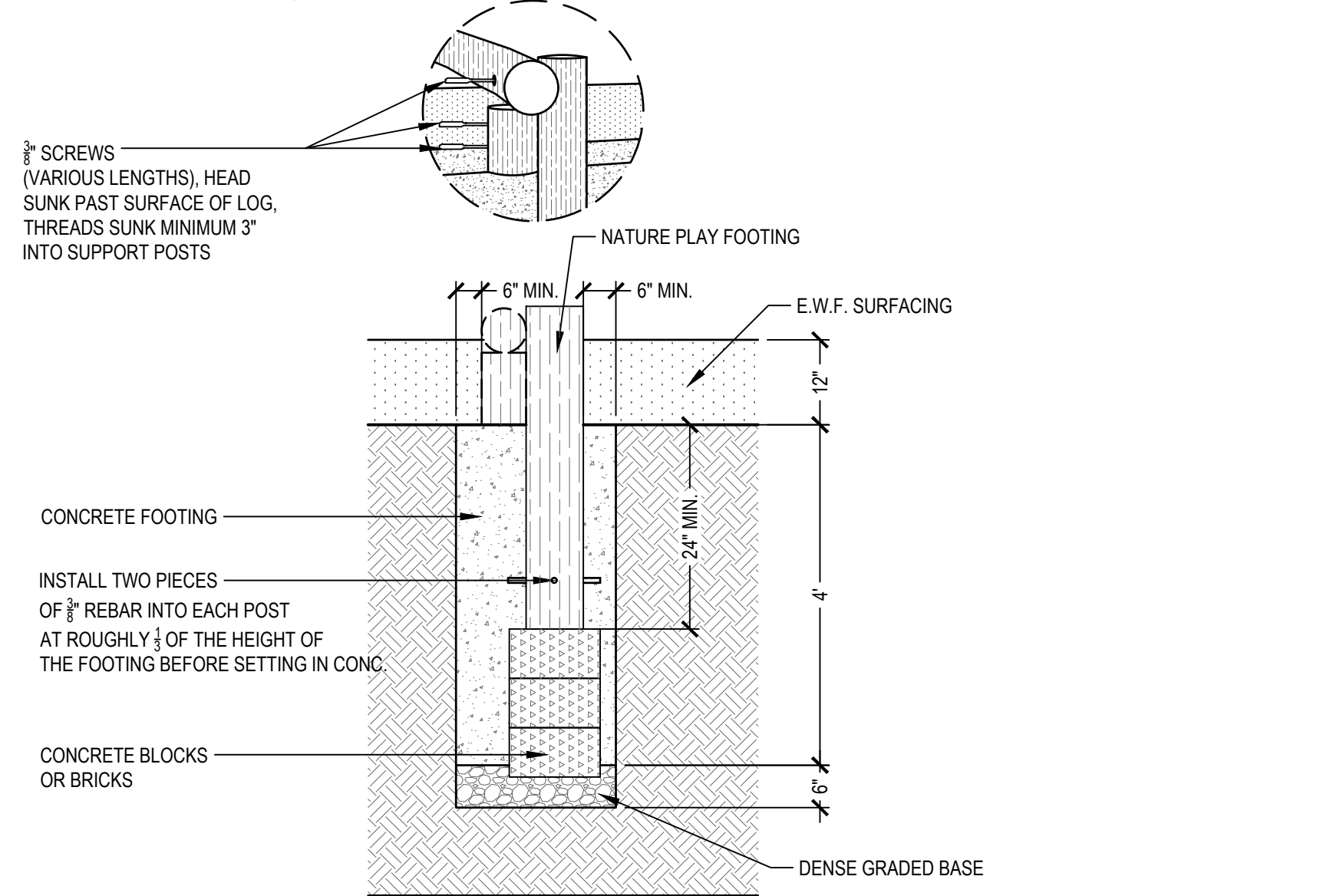
NOTES:

- PLACE STEPPING STONES TO CONFIGURATIONS AND LOCATION AS SHOWN ON PLAN.
- SELECT AND PLACE STEPPING STONES SO THAT A MINIMUM OF EXCAVATION SCARS ARE VISIBLE.
- STEPPING STONES TO BE APPROVED BY OWNER'S PROJECT REPRESENTATIVE PRIOR TO PLACEMENT.
- DO NOT FRACTURE STEPPING STONES DURING PLACEMENT, SUCH ACTION WILL BE CAUSE FOR REJECTION.
- WASH OFF STEPPING STONES COMPLETELY AFTER PLACEMENT.

STONE STEPPERS DIMENSIONS:

- A WIDTH OF STONE - 18" TO 24"
- B LENGTH OF STONE - 24" TO 30"
- C HEIGHT OF STONE - 18" TO 24" HEIGHT
- D HEIGHT ABOVE FINISHED GRADE - 2" TO 4"

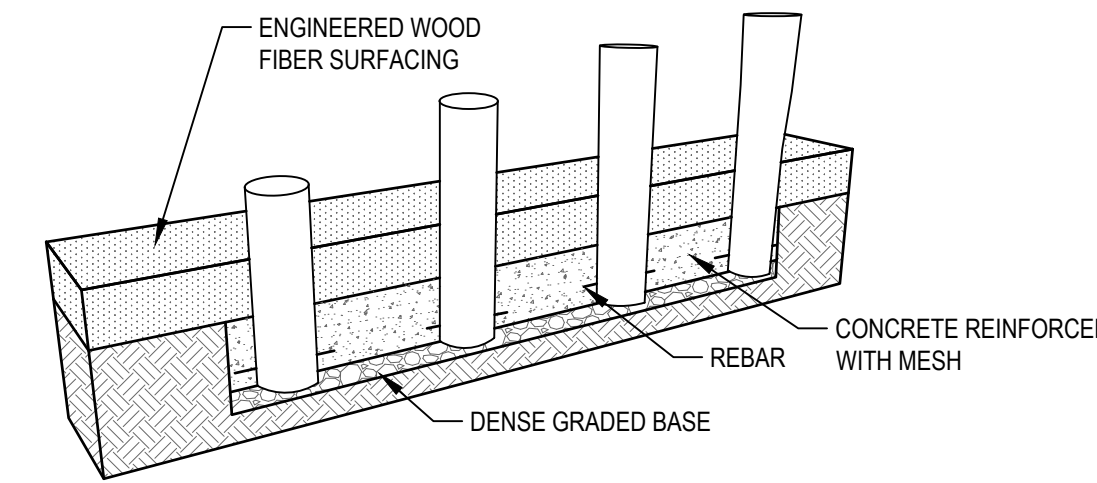
WHEN PLACED ON A SLOPE, THE TOP OF THE STONE SHOULD BE LEVEL. MAINTAIN THE MINIMUM HEIGHT OF 2" ABOVE FINISHED GRADE AT THE STONE'S HIGHER POINT.



8 NATURE PLAY FOOTINGS (MPS STANDARD DETAIL) NOT TO SCALE

GENERAL NOTES:

- ALL DEPTHS MUST MEET MANUFACTURER'S SPECIFICATIONS, OR MPS SPECIFICATIONS, WHICHEVER IS GREATER.
- MAKE FOOTINGS BETWEEN 18"-24" DEEP AND MAKE SURE THERE IS A MINIMUM OF 6" OF CONCRETE AROUND THE SUPPORT POSTS.
- ONE SUPPORT POST MUST BE POSITIONED DIRECTLY UNDER THE LOG TO SUPPORT THE WEIGHT, WHILE THE OTHER WILL STABILIZE THE LOG LATERALLY ONCE THE HARDWARE IS INSTALLED.
- INSTALL TWO PIECES OF 3/8" REBAR INTO EACH SUPPORT POST AT ROUGHLY A THIRD OF THE HEIGHT OF THE FOOTING BEFORE SETTING IN CONCRETE.
- PRE-DRILL A COUNTERSINK HOLE INTO THE LOG DEEP ENOUGH SO THAT WASHER AND SCREW HEAD DO NOT PROTRUDE BEYOND THE SURFACE OF THE LOG TO PREVENT POTENTIAL ENTANGLEMENTS HAZARDS.
- PLEASE NOTE: BLACK LOCUST (ROBINIA) IS EXTREMELY DENSE. NOT DRILLING A PILOT HOLE WILL POTENTIALLY RESULT IN A SHEARED LAG SCREW.
- ATTACH LOG TO A SECOND SUPPORT POST WITH 8", 10", 12" OR LONGER, 3/8" STRUCTURAL, COATED LAG SCREW.
- ROUND ALL EXPOSED EDGES AND REMOVE SAW MARKS WITH A SANDER.



9 STUMP JUMPERS FOOTING (MPS STANDARD DETAIL) NOT TO SCALE

GENERAL NOTES:

- ALL DEPTHS MUST MEET MANUFACTURER'S SPECIFICATIONS, OR MPS SPECIFICATIONS, WHICHEVER IS GREATER.
- STUMP JUMPERS TO BE INSTALLED AS A STRIP FOOTING.
- MAKE TRENCH 15"-16" DEEP: 12" OF CONCRETE AND 3"-4" OF COMPACTED GRAVEL, AND MAKE SURE THERE IS A MINIMUM OF 6" OF CONCRETE AROUND THE SIDES OF THE JUMPERS.
- INSTALL TWO PIECES OF 3/8" REBAR INTO EACH SUPPORT JUMPER AT ROUGHLY 1/3 OF THE HEIGHT OF THE FOOTING BEFORE SETTING IN CONCRETE.
- LENGTH OF STUMP JUMPERS VARIES DEPENDING ON DESIRED HEIGHT AND AGE GROUP, 4 STANDARD LENGTHS ARE PROVIDED; 32", 42", 48", AND 52", BUT THEY CAN BE CUT TO CUSTOM HEIGHTS.
- STUMP JUMPERS MUST BE A MIN. OF 10" IN DIAMETER.
- STUMP JUMPERS MUST NOT BE HIGHER THAN 20" FROM PROTECTIVE SURFACING WHEN INTENDED FOR 2-5 YEAR OLDS, AND 30" FOR 5-12 YEAR OLDS.
- ROUND ALL EXPOSED EDGES AND REMOVE SAW MARKS WITH A SANDER OR GRINDER.
- INSTALLER TO PROVIDE PERMANENT HIGH AND LOW MARKS (AT LEAST 3 VERTICALS) FOR ENGINEER WOOD FIBER SAFETY SURFACING.

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SEALS AND SIGNATURES

SITE ADDRESS

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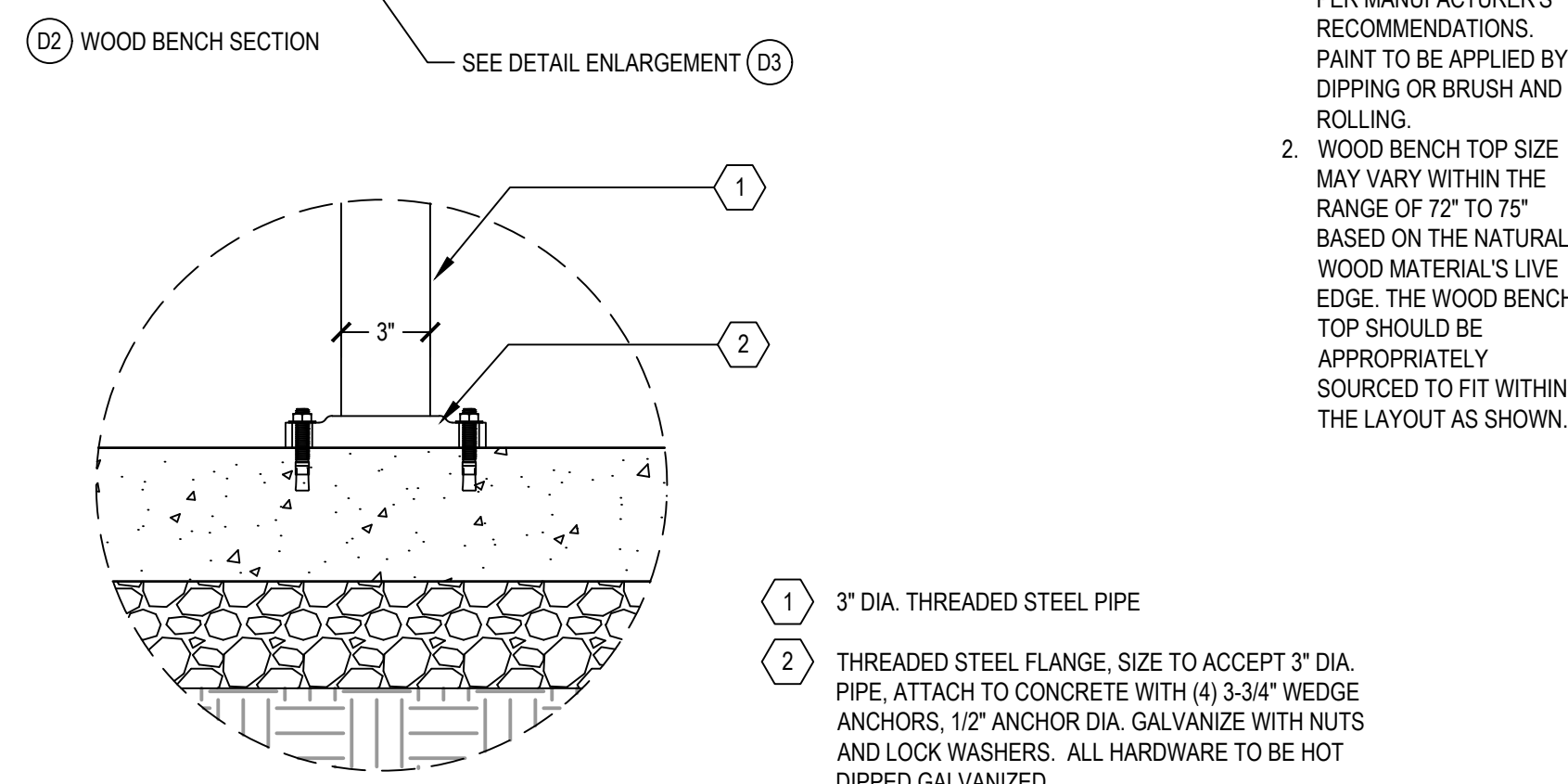
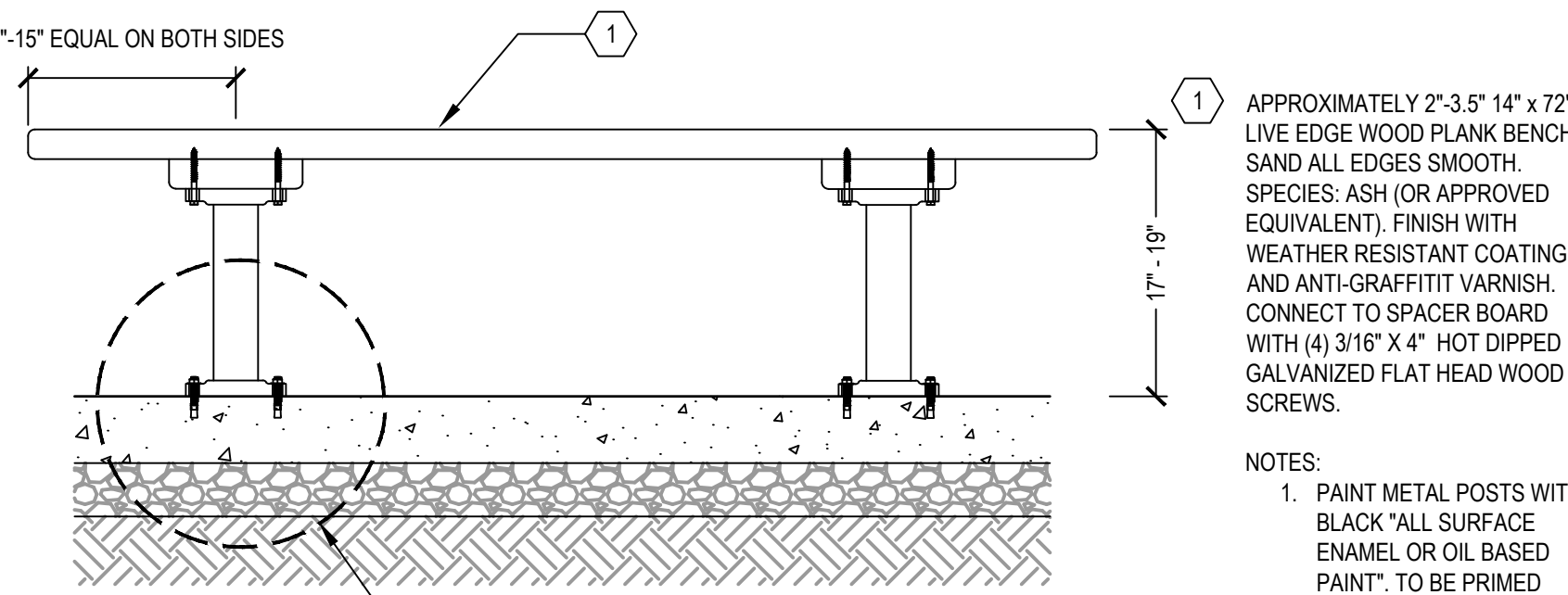
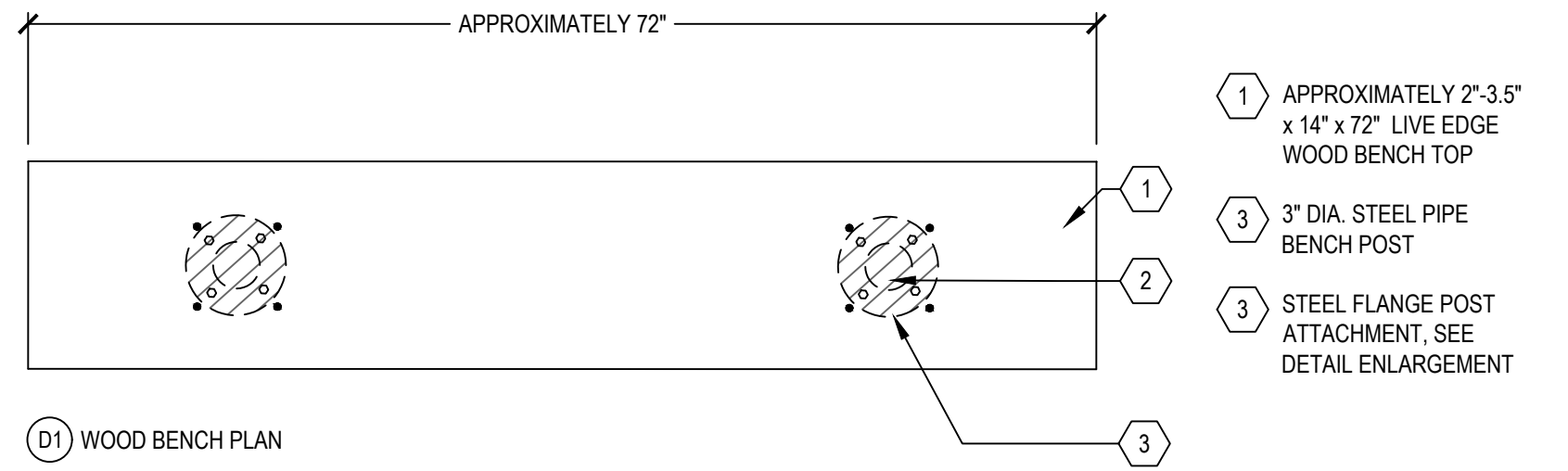
SITE DETAILS

SCALE _____ 14895

PROJECT NUMBER _____ 8321, DIVISION 5

MPS PROJECT NUMBER _____

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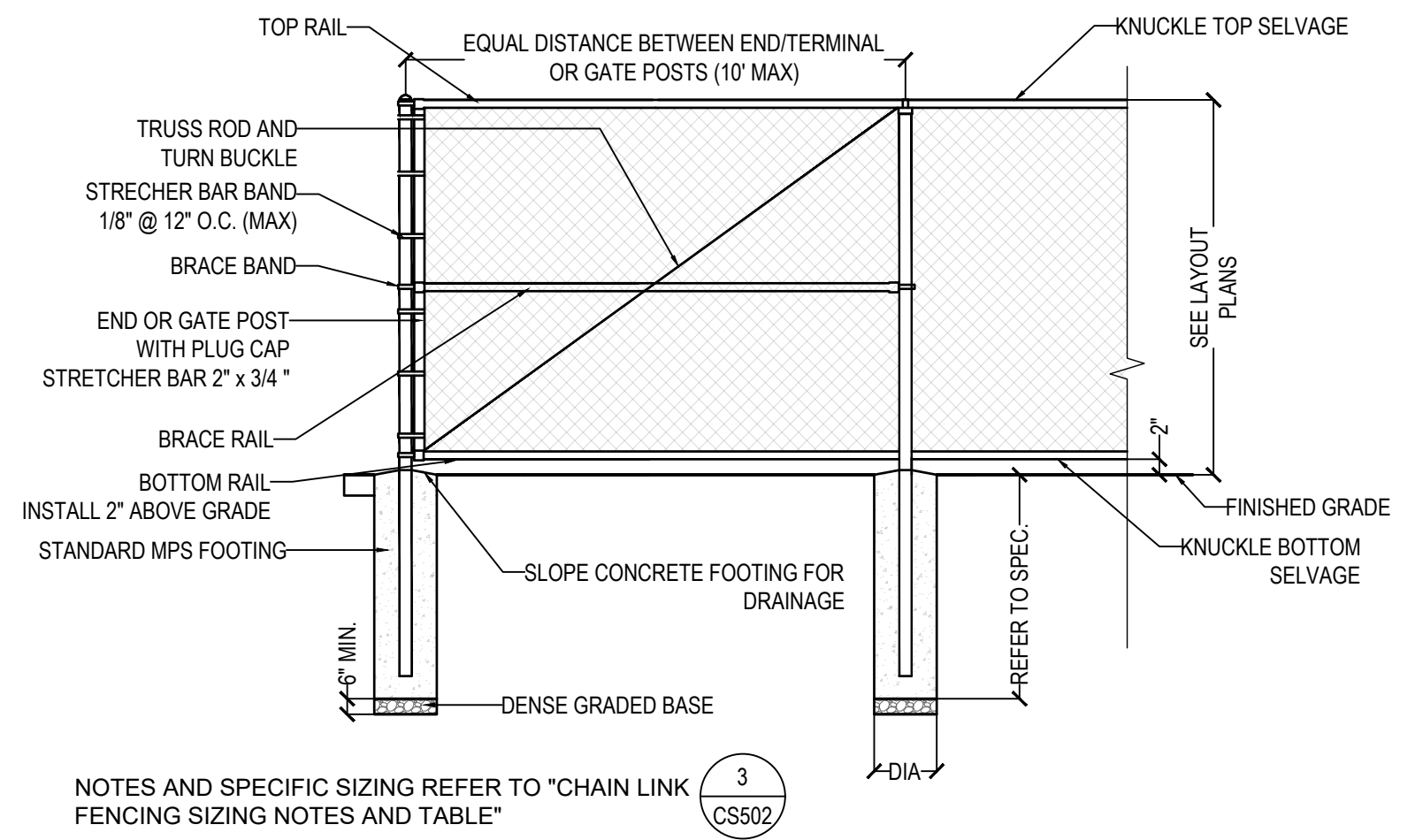


- 1 APPROXIMATELY 2"-3.5" x 14" x 72" LIVE EDGE WOOD BENCH TOP
- 2 3" DIA. STEEL PIPE BENCH POST
- 3 STEEL FLANGE POST ATTACHMENT. SEE DETAIL ENLARGEMENT

- 1 APPROXIMATELY 2"-3.5" 14" x 72" LIVE EDGE WOOD PLANK BENCH. SAND ALL EDGES SMOOTH. SPECIES: ASH (OR APPROVED EQUIVALENT). FINISH WITH WEATHER RESISTANT COATING AND ANTI-GRAFFITI VARNISH. CONNECT TO SPACER BOARD WITH (4) 3/16" X 4" HOT DIPPED GALVANIZED FLAT HEAD WOOD SCREWS.

- NOTES:
1. PAINT METAL POSTS WITH BLACK "ALL SURFACE ENAMEL OR OIL BASED PAINT". TO BE PRIMED PER MANUFACTURER'S RECOMMENDATIONS. PAINT TO BE APPLIED BY DIPPING OR BRUSH AND ROLLING.
 2. WOOD BENCH TOP SIZE MAY VARY WITHIN THE RANGE OF 72" TO 75" BASED ON THE NATURAL WOOD MATERIAL'S LIVE EDGE. THE WOOD BENCH TOP SHOULD BE APPROPRIATELY SOURCED TO FIT WITHIN THE LAYOUT AS SHOWN.

- 1 3" DIA. THREADED STEEL PIPE
- 2 THREADED STEEL FLANGE. SIZE TO ACCEPT 3" DIA. PIPE. ATTACH TO CONCRETE WITH (4) 3/32" WEDGE ANCHORS. 1/2" ANCHOR DIA. GALVANIZE WITH NUTS AND LOCK WASHERS. ALL HARDWARE TO BE HOT DIPPED GALVANIZED.



NOTES AND SPECIFIC SIZING REFER TO "CHAIN LINK FENCING SIZING NOTES AND TABLE"

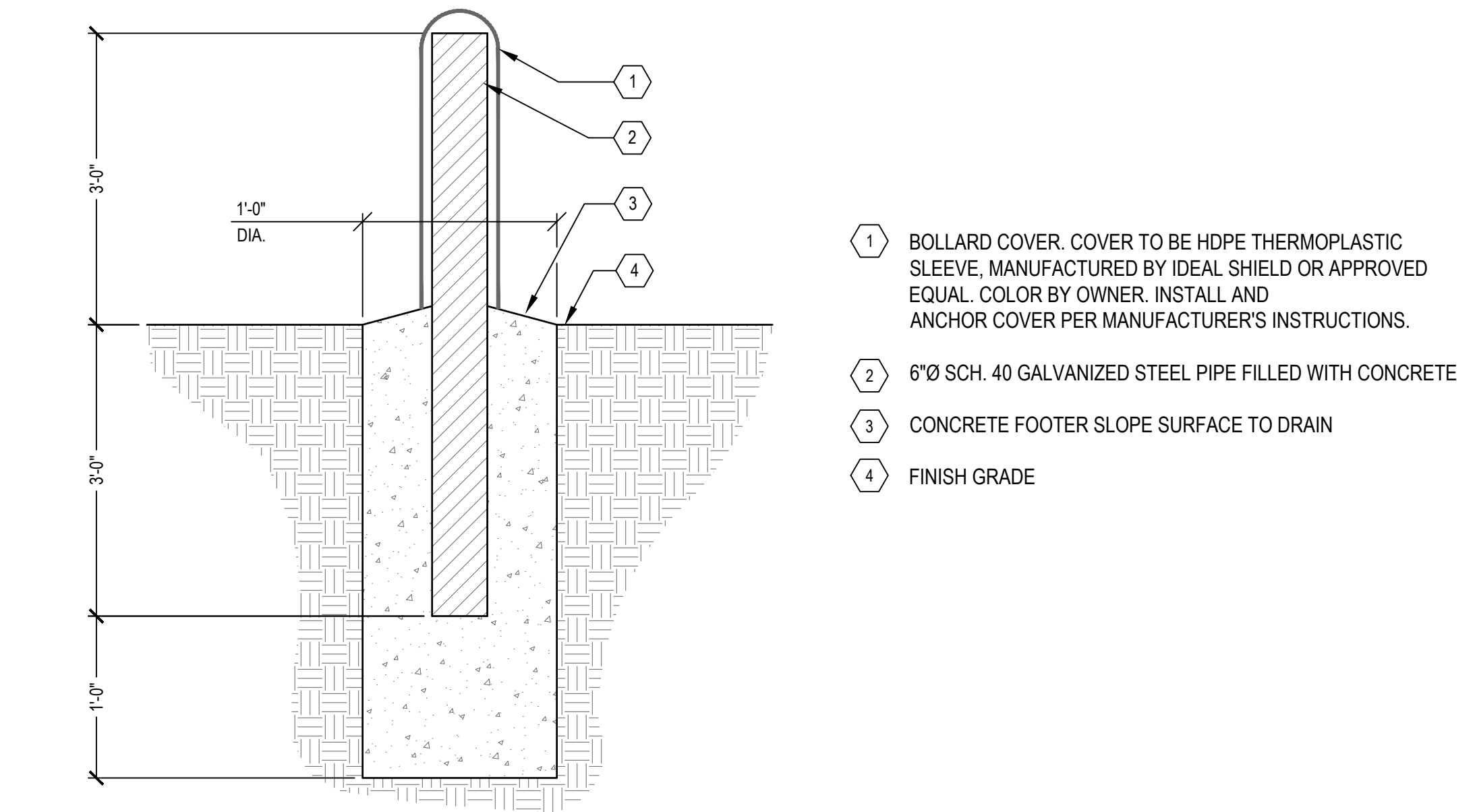
CHAINLINK FENCE SIZING				
POST TYPE	HEIGHT (')	POST DIA. (")	FOOT DEPTH MIN. (')	FOOT DIA. MIN. (") *
LINE	< 4'	0'-2"	4'-0"	0'-10"
LINE	4' - 14'	0'-2 1/2"	4'-0"	0'-10"
LINE	> 14'	3'-0"	6'-0"	1'-0"
END	< 4'	0'-2 1/2"	4'-0"	0'-10"
END	4' - 12'	0'-3"	4'-0"	1'-0"
END	> 12'	0'-4"	6'-0"	1'-0"
GATE	4' - 6'	0'-3"	6'-0"	1'-0"
GATE	7' - 12'	0'-4"	6'-0"	1'-0"
GATE	> 12'	0'-6"	8'-0"	1'-2"

- *FOOTING DEPTH* IS INCLUSIVE OF 6" OF STONE AT BOTTOM OF HOLE. POST EMBEDMENT TO BE 6" LESS THAN DIMENSION SHOWN.
- GENERAL NOTES:
1. COORDINATE LAYOUT AND INSTALLATION WITH CONCRETE WORK. LOCATE FENCE POSTS AT CONCRETE SCORE JOINTS AS SHOWN ON PLANS WHERE APPLICABLE.
 2. SUBMIT SHOP DRAWINGS FOR FENCE AS SPECIFIED.
 3. SEE SPECIFICATIONS FOR FENCE FOOTING REQUIREMENTS.
 4. FINAL DEPTH OF FOOTING NOT TO BE LESS THAN 4" OF CONCRETE.
 5. SLOPE TOP OF FOOTINGS 1-2% PITCHING AWAY FROM POSTS.
- *REVIEW AGAINST FIELD CONDITIONS AND CONFIRM W/ OWNER DURING SHOP DRAWING REVIEW

1 WOOD BENCH NOT TO SCALE

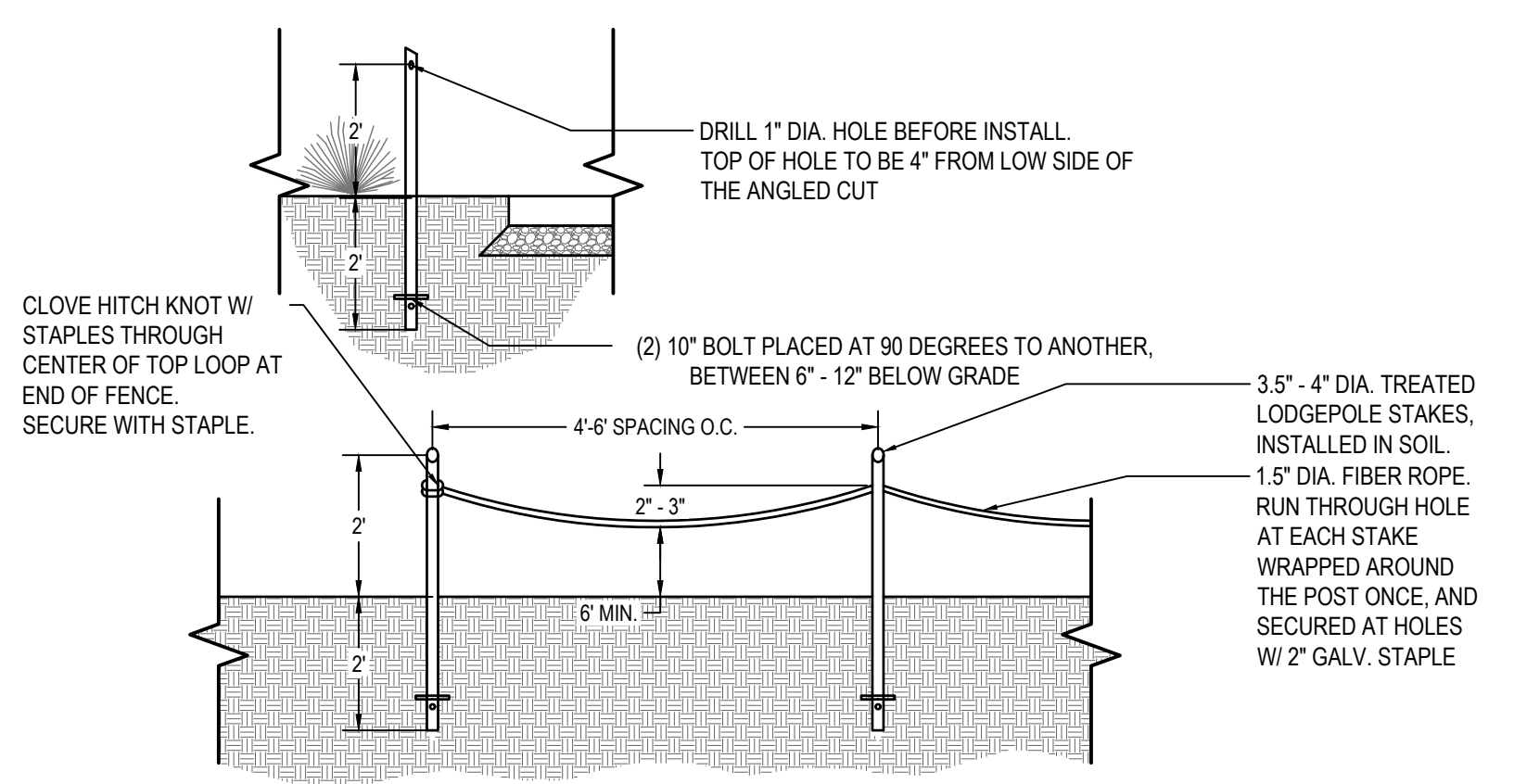
2 8'-12' HEIGHT CHAIN LINK FENCE (MPS STANDARD DETAIL) NOT TO SCALE

3 CHAIN LINK FENCE SIZING TABLE AND NOTES NOT TO SCALE



- 1 BOLLARD COVER. COVER TO BE HDPE THERMOPLASTIC SLEEVE, MANUFACTURED BY IDEAL SHIELD OR APPROVED EQUAL. COLOR BY OWNER. INSTALL AND ANCHOR COVER PER MANUFACTURER'S INSTRUCTIONS.
- 2 6"Ø SCH. 40 GALVANIZED STEEL PIPE FILLED WITH CONCRETE
- 3 CONCRETE FOOTER SLOPE SURFACE TO DRAIN
- 4 FINISH GRADE

4 BOLLARD SCALE: 1" = 1'



- GENERAL NOTES:
1. CUT TOP OF POLE AT A 30 DEGREE ANGLE. THE ANGLED SIDE IS TO FACE THE ACTIVE AREA.
 2. SAND TOP OF EACH POLE AFTER INSTALL TO REMOVE ANY SPLINTERS.
 3. ROPE TO COME WITHIN 3" OF GROUND IF STEPPED ON.

5 LOW ROPE FENCE (MPS STANDARD DETAIL) NOT TO SCALE

2024 GREEN INFRASTRUCTURE UPGRADES

STORY ELEMENTARY SCHOOL



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

SEALS AND SIGNATURES

SITE ADDRESS

SITE # 343
 3815 W KILBOURN AVENUE
 MILWAUKEE, WI 53208

DRAWING TITLE

SITE DETAILS

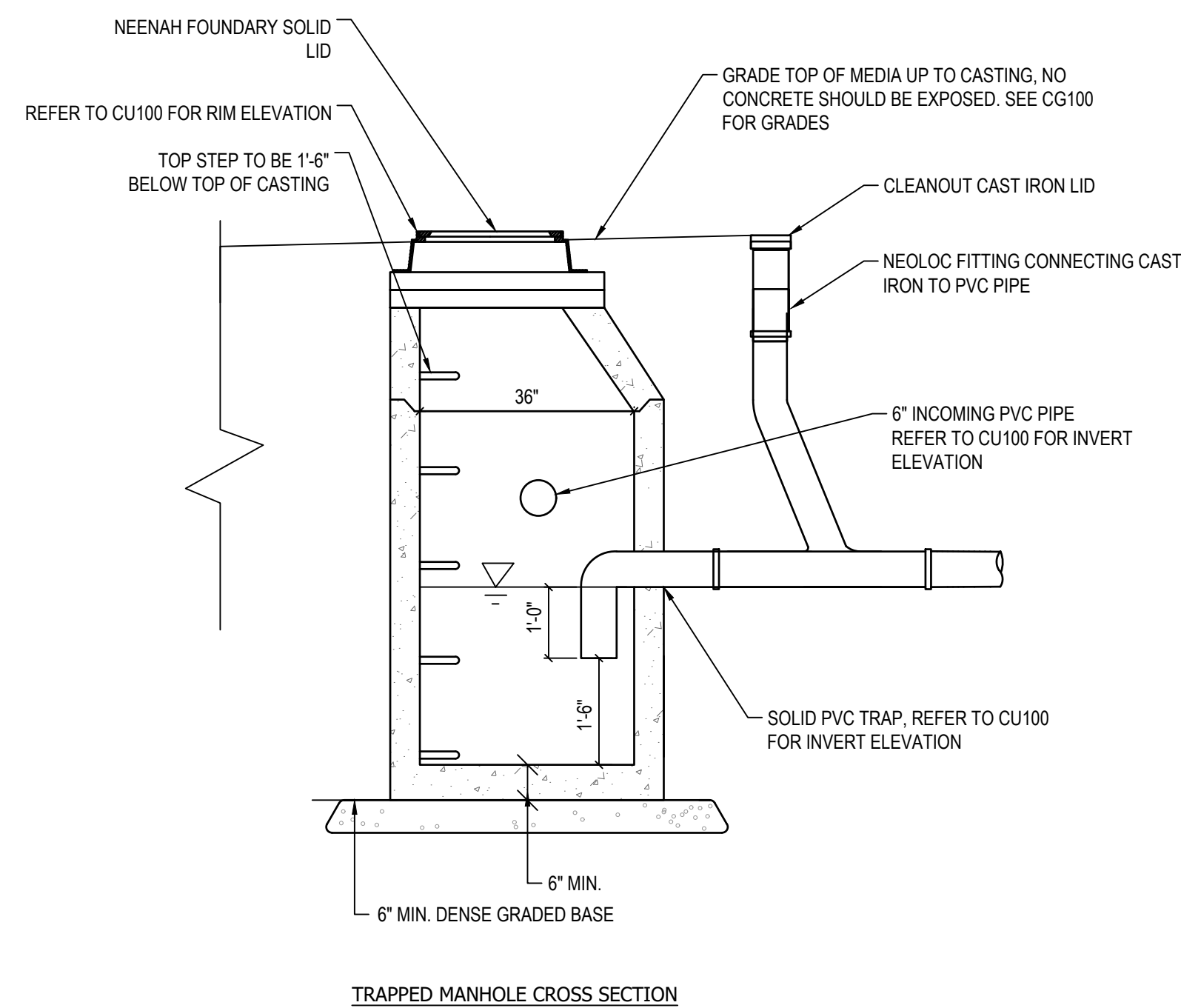
SCALE

PROJECT NUMBER 14895

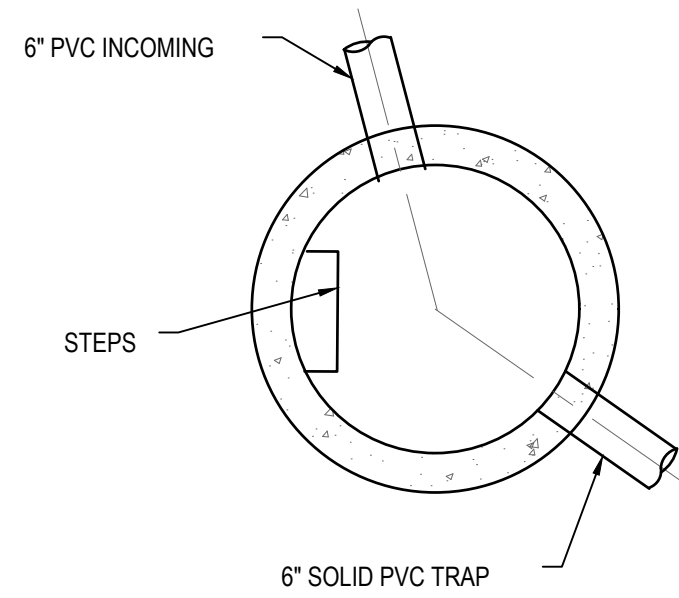
MPS PROJECT NUMBER 8321, DIVISION 5

DRAWING NUMBER **CS502**

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TRAPPED MANHOLE CROSS SECTION

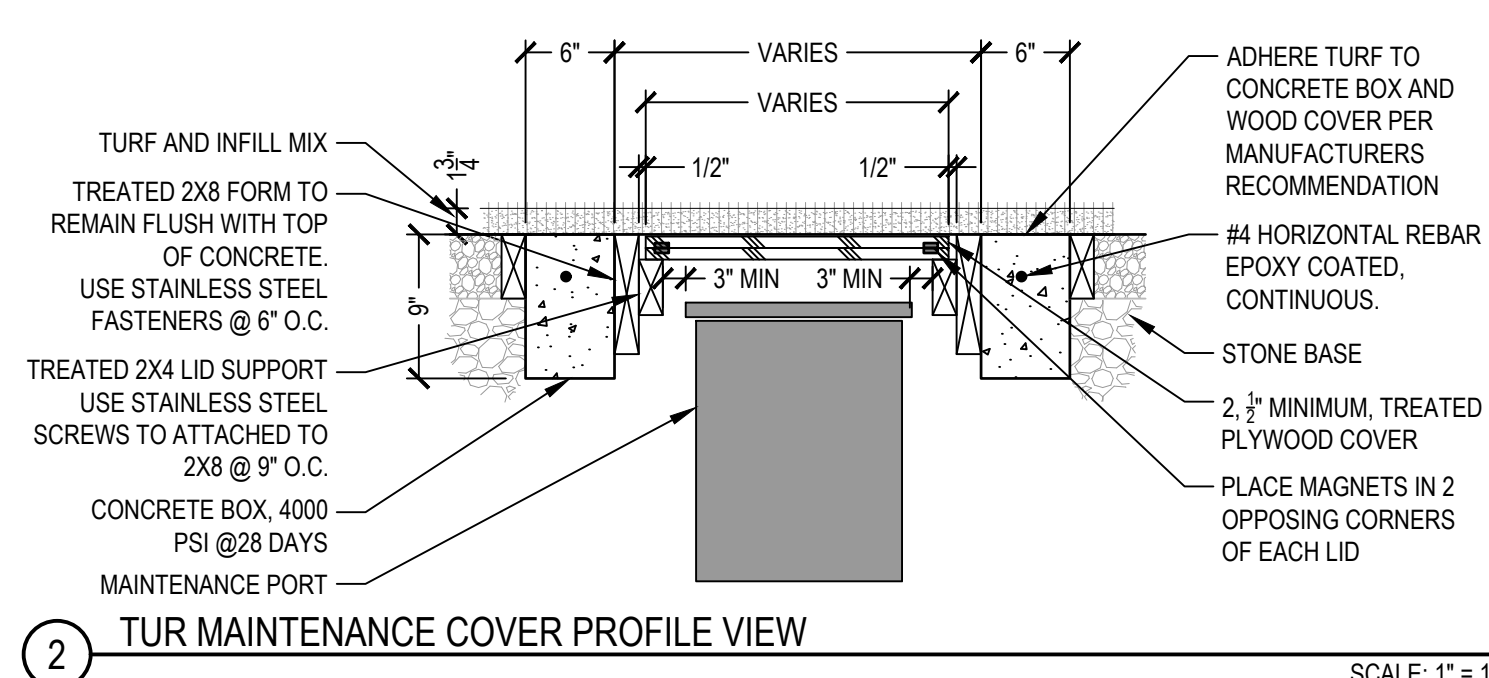


TRAPPED MANHOLE PLAN VIEW

NOTE 1. ANGLE IS APPROXIMATE. FIELD VERIFY THE LOCATION, INVERT, AND SIZE OF EXISTING PIPE PRIOR TO CONSTRUCTION.

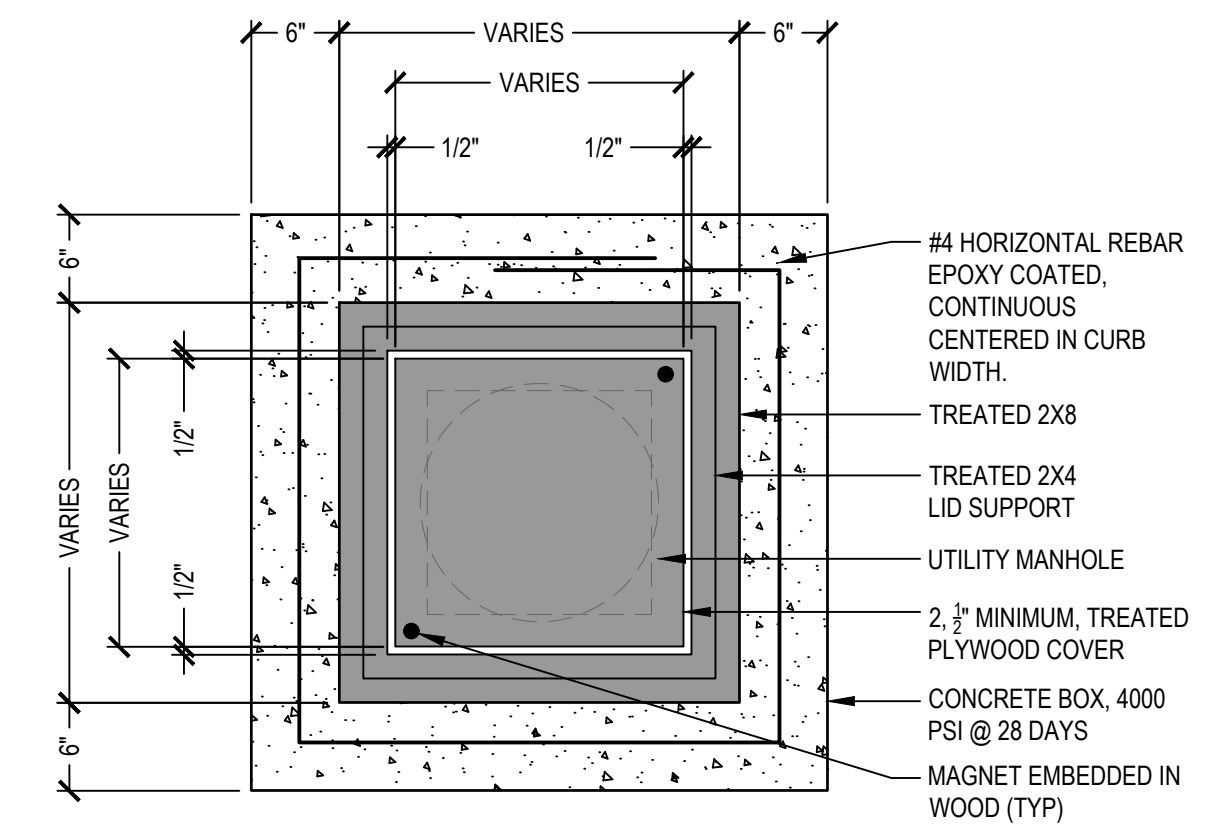
1 MANHOLE (MH1 TRAPPED)

SCALE: 1" = 2'



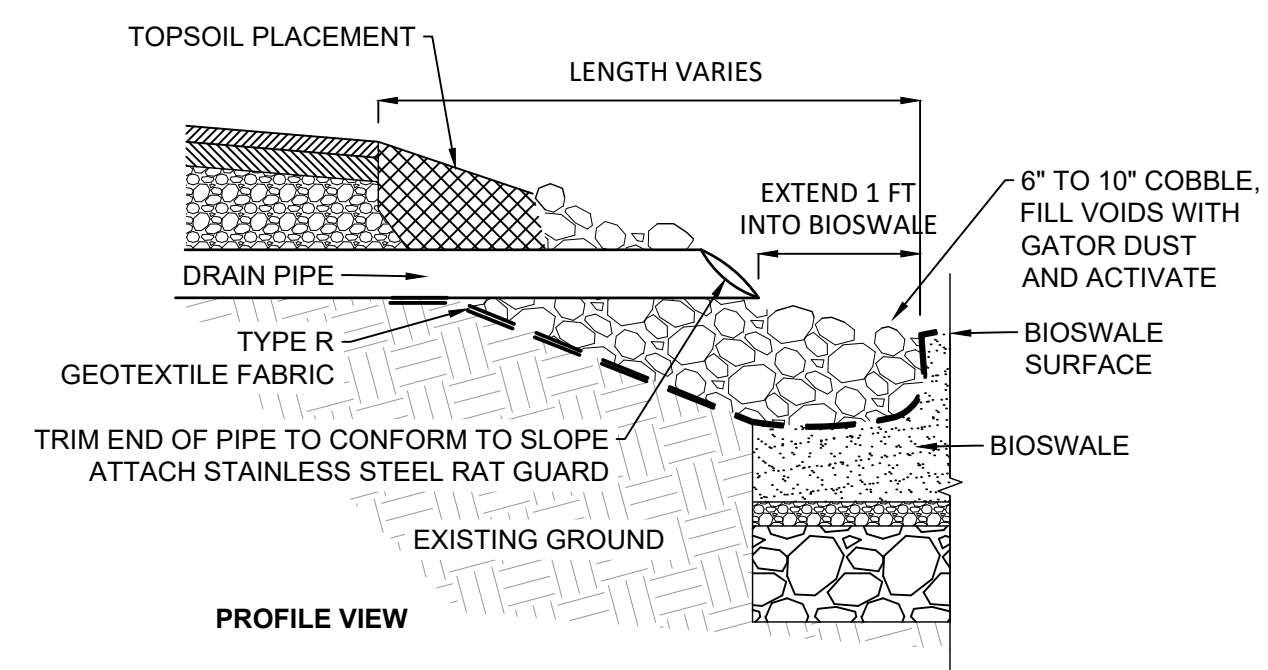
2 TUR MAINTENANCE COVER PROFILE VIEW

SCALE: 1" = 1'

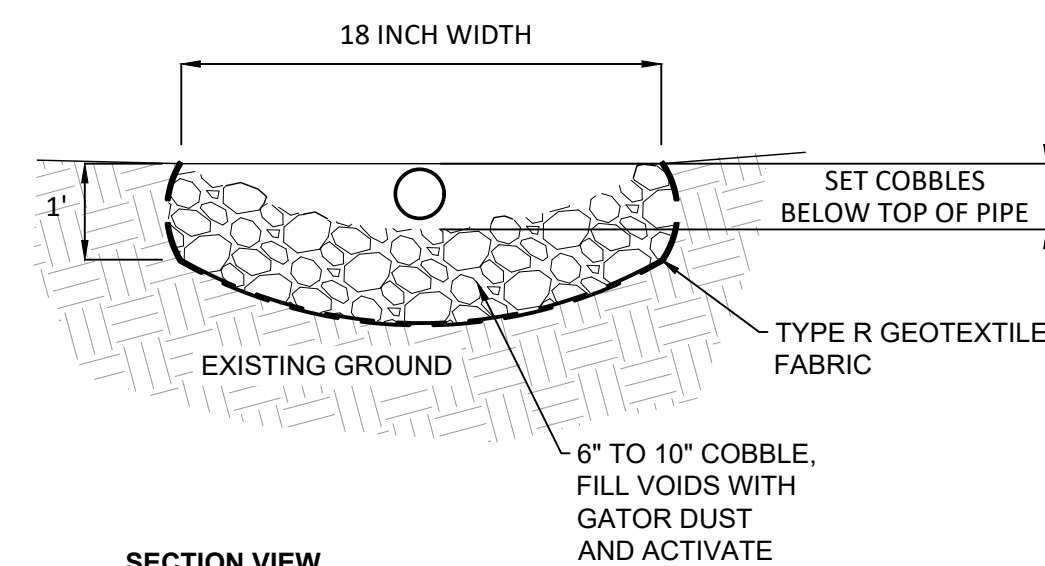


3 TURF MAINTENANCE COVER PLAN VIEW

SCALE: 1" = 1'



PROFILE VIEW



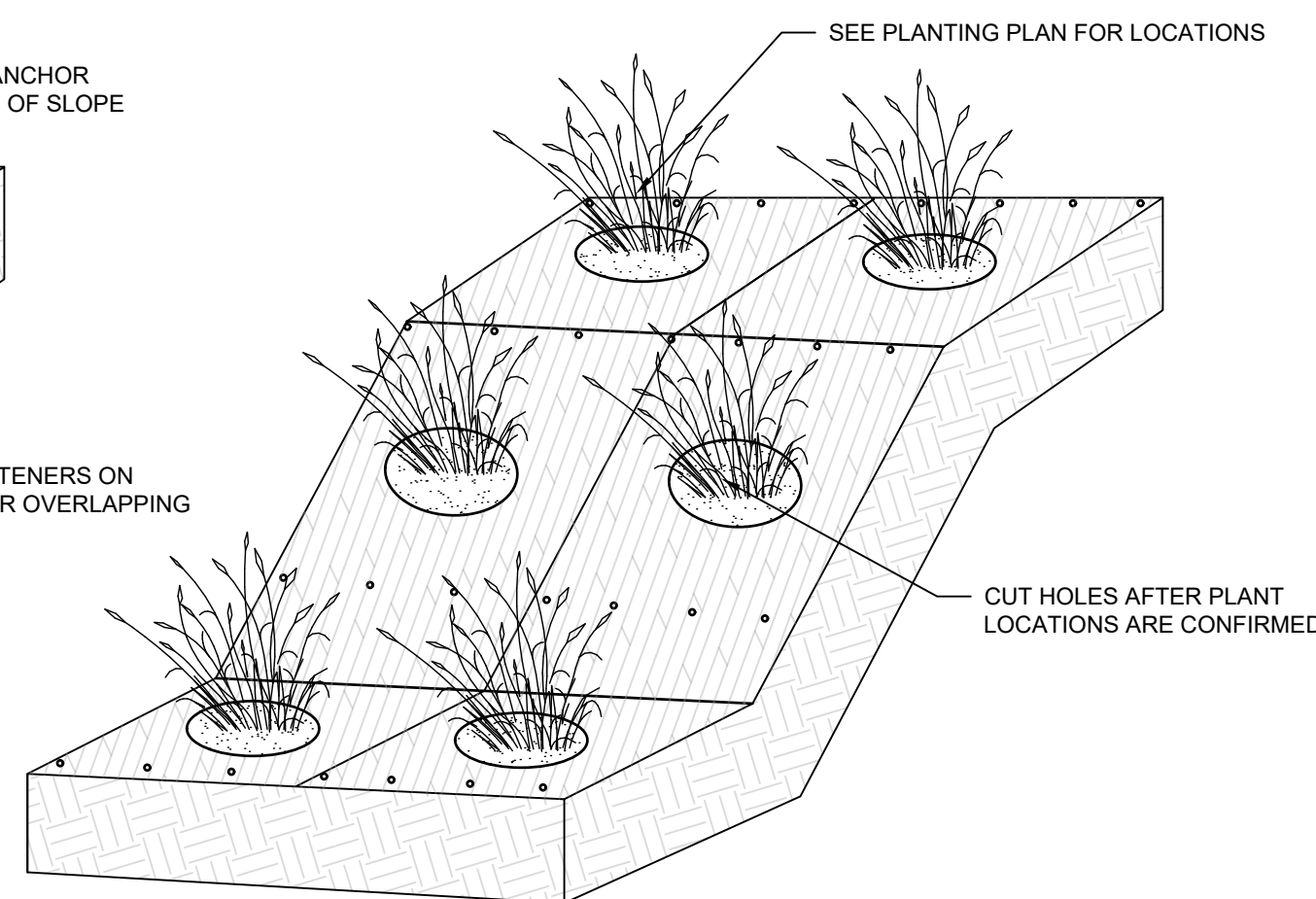
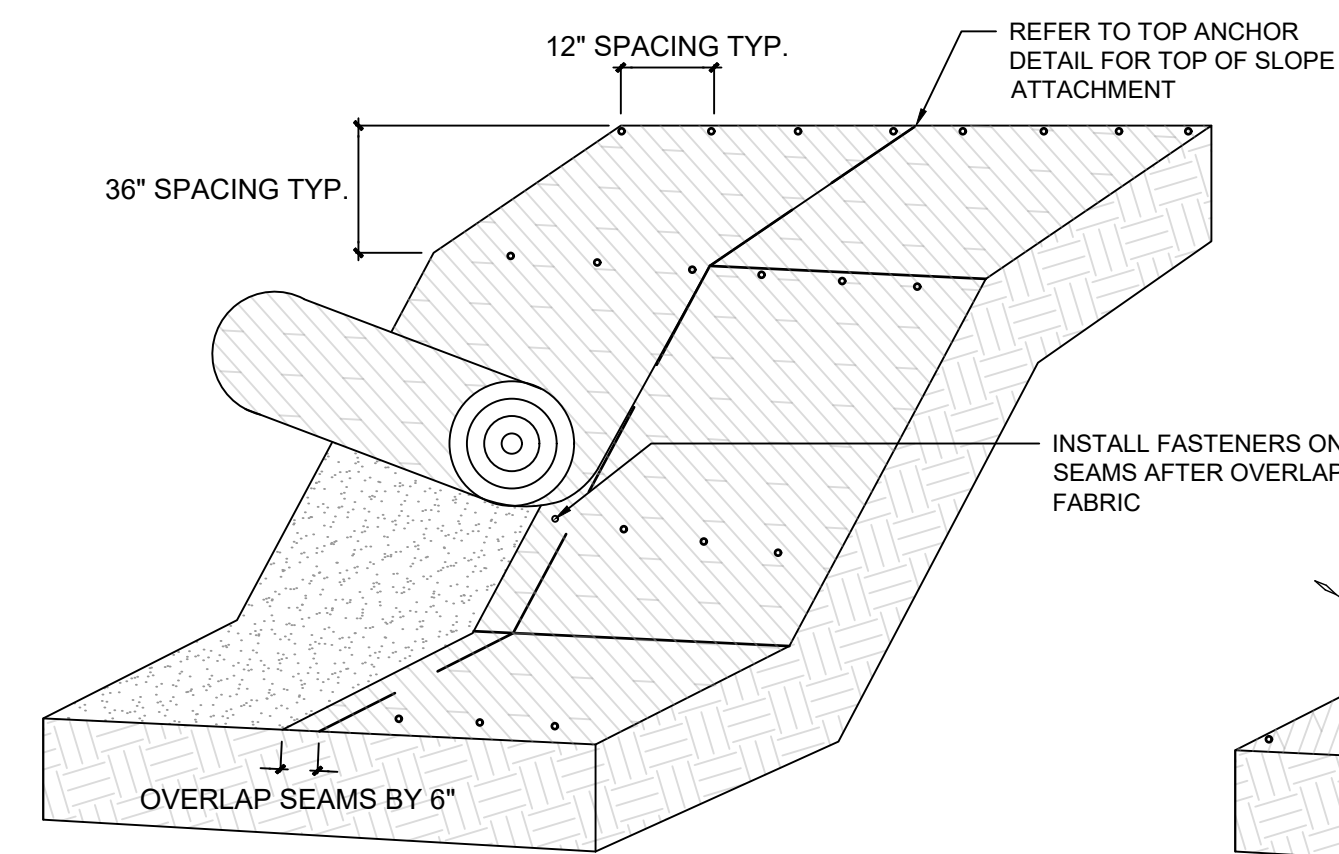
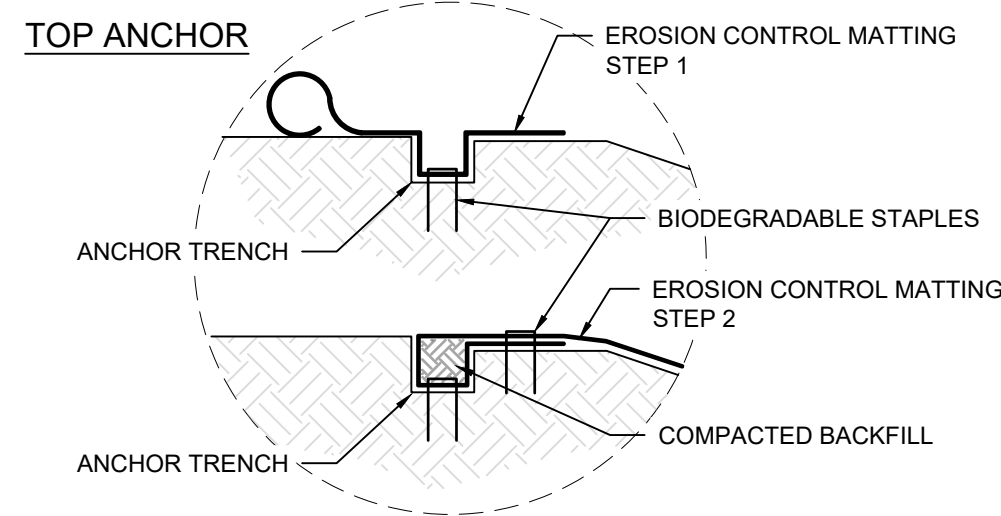
SECTION VIEW

4 DRAIN PIPE INTO BIOSWALE COBBLE INLET (MPS STANDARD)

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

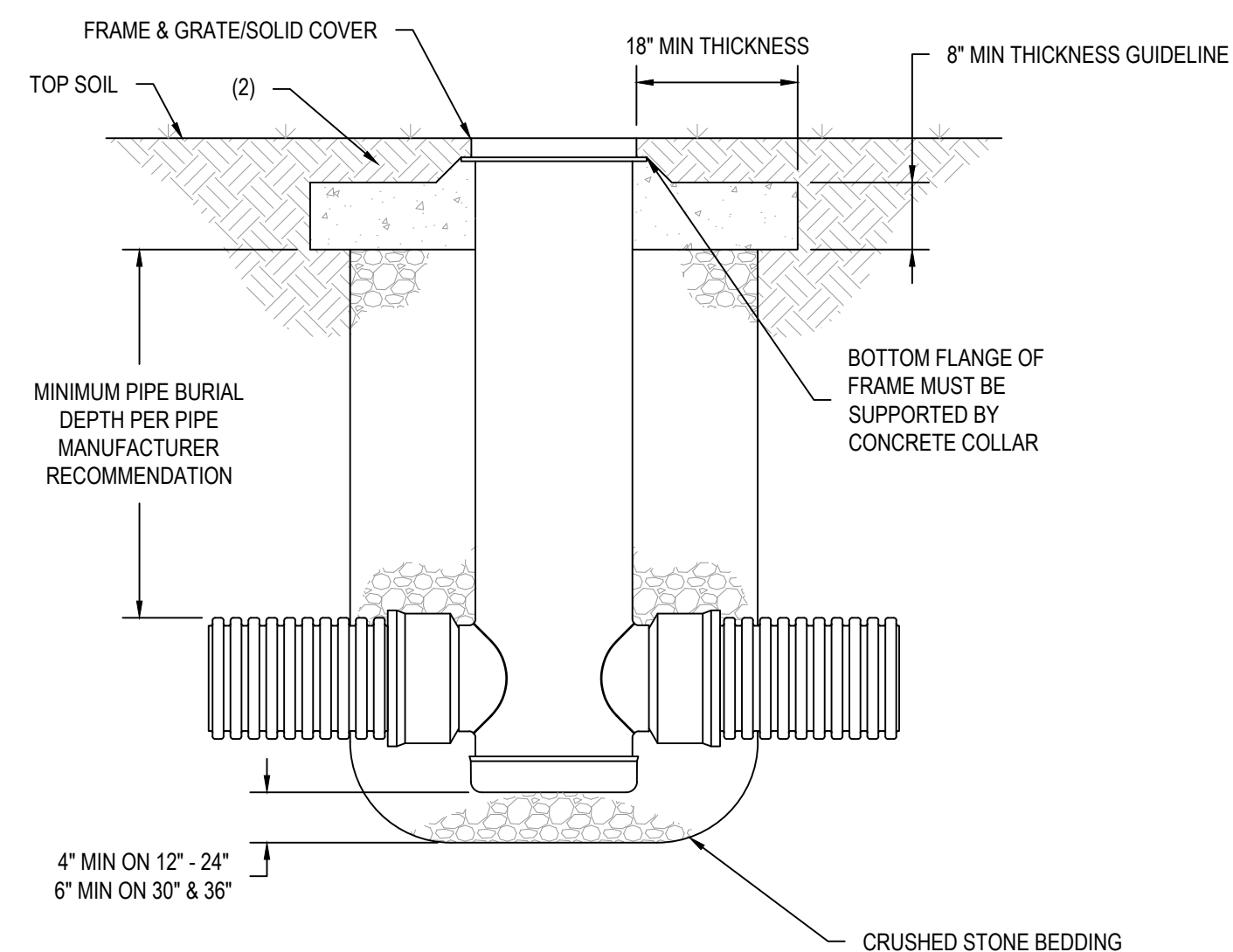
GENERAL NOTES:

1. SEE SPECIFICATIONS FOR EROSION CONTROL MATTING MATERIAL- MUST BE BIODEGRADABLE
2. SEE SPECIFICATIONS FOR FASTENERS- MUST BE BIODEGRADABLE
3. SPACE FASTENERS AS SHOWN (12" HORIZONTALLY/ 36" VERTICALLY)
 - 3.1. FASTENERS TO BE DRIVEN IN AFTER SEAMS ARE OVERLAPPED
 - 3.2. LEAVE 2" BETWEEN ANY EDGE OF MATTING AND FABRIC
4. CONFIRM PLANT LOCATIONS PRIOR TO CUTTING MAT MATERIAL
5. TREES MUST BE PLANTED PRIOR TO MAT INSTALLATION, HOLD MATTING 4" FROM TRUNK



5 EROSION CONTROL MATTING ON SLOPE (MPS STANDARD)

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



6 TYPICAL DRAIN BASIN

NTS

1. REFER TO CU100 FOR SIZE OF DRAIN BASIN AND COVER/GRATE TYPE
2. DESIGN SHOULD ACCOUNT FOR ROOT DEPTH TO ALLOW TURF TO GROW AND PREVENT EROSION AROUND GRATE SO THAT HAZARDS DO NOT FORM.

2024 GREEN INFRASTRUCTURE UPGRADES STORY ELEMENTARY SCHOOL



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Milwaukee, WI 53205
414-622-0103

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

SEALS AND SIGNATURES

SITE ADDRESS
SITE # 343
3815 W KILBOURN AVENUE
MILWAUKEE, WI 53208

DRAWING TITLE
UTILITY DETAILS

SCALE 14895

PROJECT NUMBER 8321, DIVISION 5

MPS PROJECT NUMBER

DRAWING NUMBER **CU502**

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

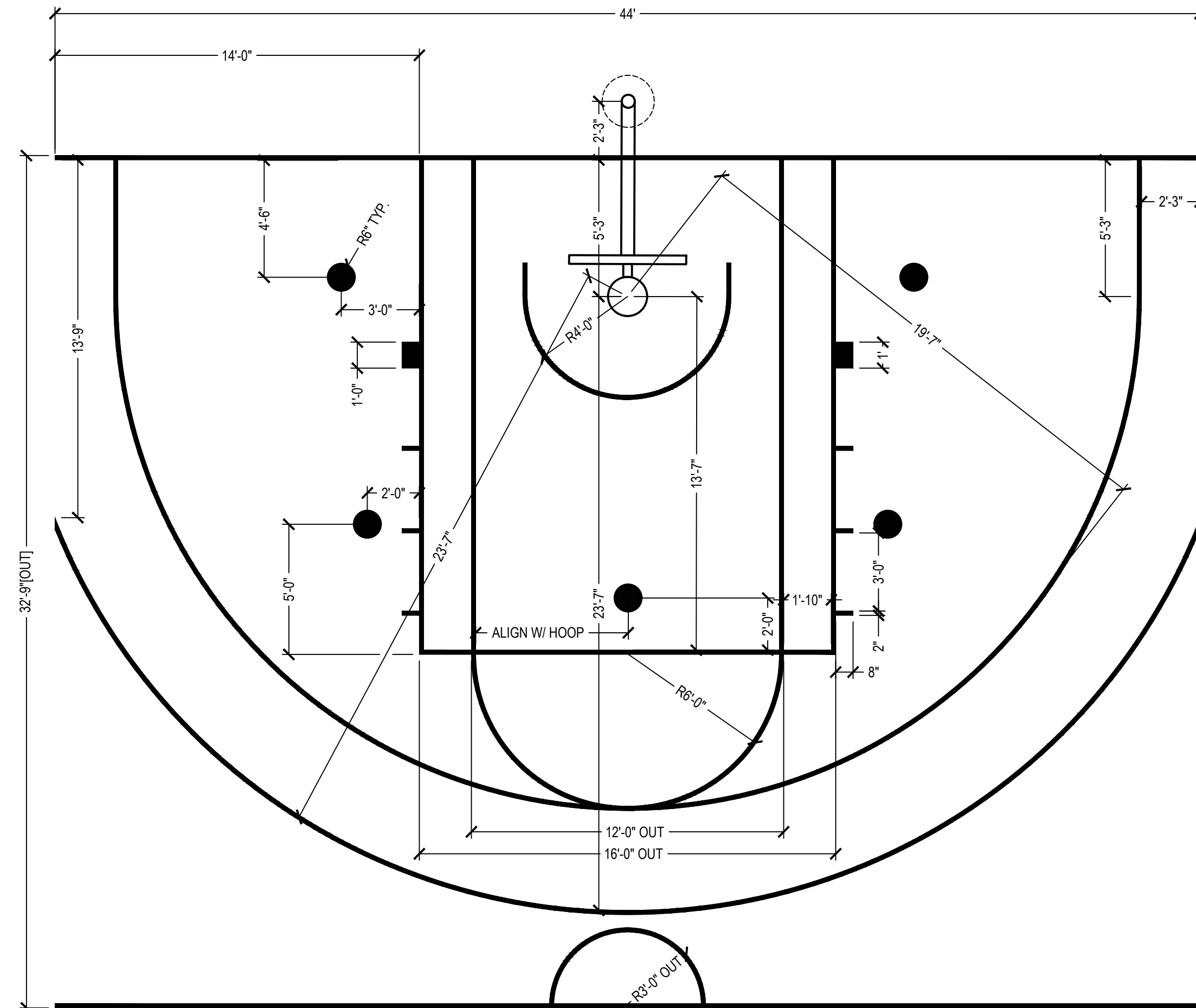
PROJECT NUMBER

8317, DIVISION 1

MPS PROJECT NUMBER

CP501

DRAWING NUMBER

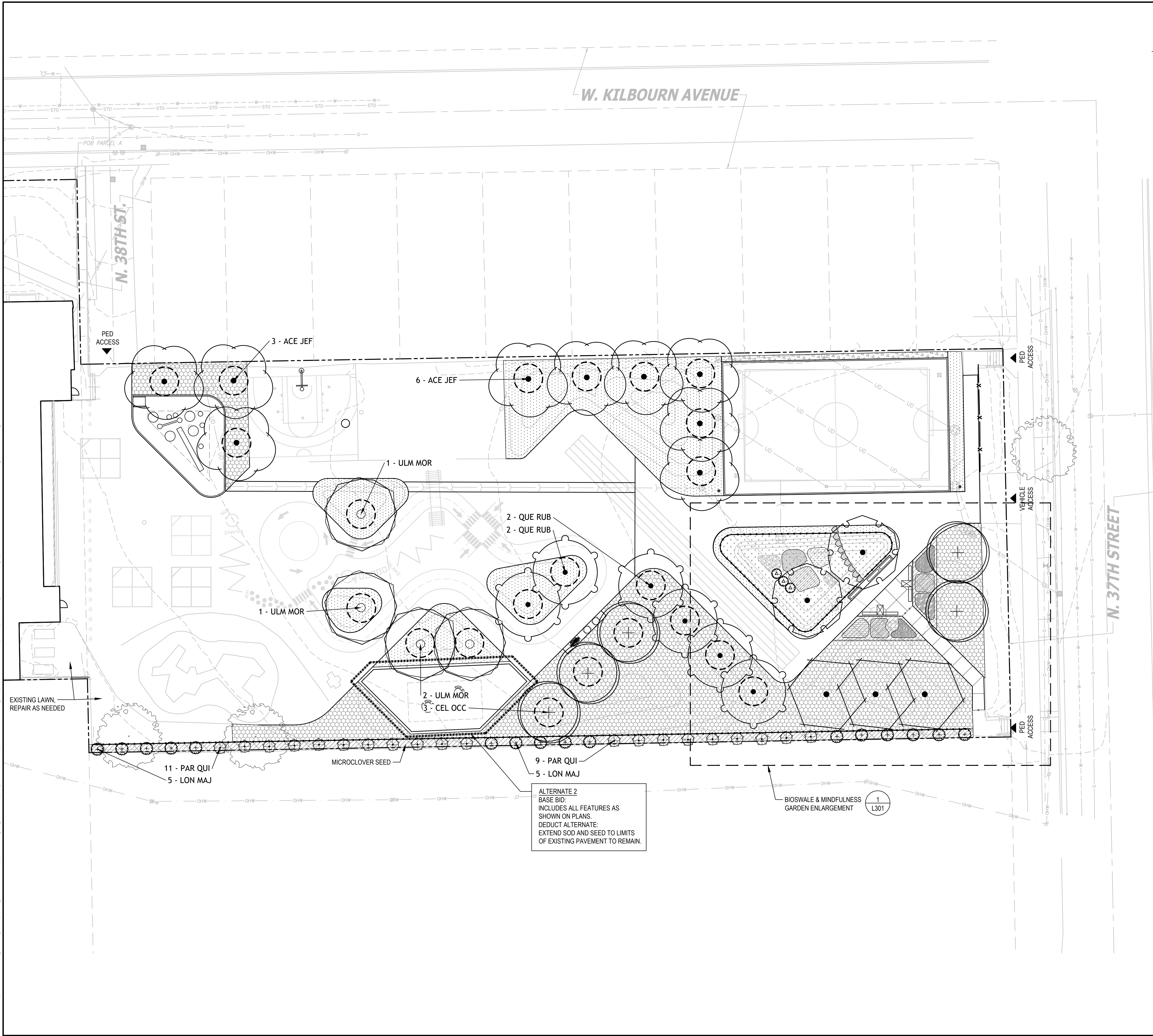


- NOTES:
1. ALL STRIPING IS TO BE 2" IN WIDTH EXCEPT FOR "HORSE" SOLID CIRCLES. REFER TO CP100 FOR HORSE CIRCLE COLOR AND STRIPING COLOR.
 2. SAFETY ZONES SHALL BE CLEAR OF ALL VERTICAL OBSTRUCTIONS AND GRADE CHANGES. MATERIAL CHANGES ARE ALLOWABLE, SO LONG AS IT MEETS OTHER CRITERIA.
 3. SAFETY ZONE DIMENSIONS SHOULD REFER TO LAYOUT SHEET, CS100
 4. DIMENSIONS INSIDE OF STRIPING UNLESS INDICATED OTHERWISE BY "OUT" IN THE ANNOTATION.
 5. BASKETBALL HOOP IS MOVEABLE AND ADJUSTABLE. FOUNDATION SHALL BE PER MANUFACTURER'S REQUIREMENTS. VERIFY FOUNDATION LOCATION TO MAINTAIN DIMENSION OF RIM POSITION IN RELATION TO COURT STRIPING.

1 HALF BASKETBALL COURT (MPS STANDARD DETAIL)

SCALE: 1/4" = 1'

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ALTERNATE 2
 BASE BID:
 INCLUDES ALL FEATURES AS
 SHOWN ON PLANS.
 DEDUCT ALTERNATE:
 EXTEND SOD AND SEED TO LIMITS
 OF EXISTING PAVEMENT TO REMAIN.

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

6
L500

PERENNIAL AREAS:

- MIX 1 - BIOSWALE
- MIX 2 - BIOSWALE
- MIX 3 - BIOSWALE
- MIX 5 - MINDFULNESS GARDEN
- MIX 6 - MINDFULNESS GARDEN
- MIX 7 - MINDFULNESS GARDEN
- MIX 8 - MINDFULNESS GARDEN

SHEET NOTES

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

2024 GREEN INFRASTRUCTURE UPGRADES

STORY ELEMENTARY SCHOOL

Owner:

MILWAUKEE PUBLIC SCHOOLS

SMITHGROUP

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SEALS AND SIGNATURES

SITE ADDRESS

SITE # 343
 3815 W KILBOURN AVENUE
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DRAWING TITLE

PLANTING PLAN

SCALE: 1" = 20'-0"

SCALE 14895

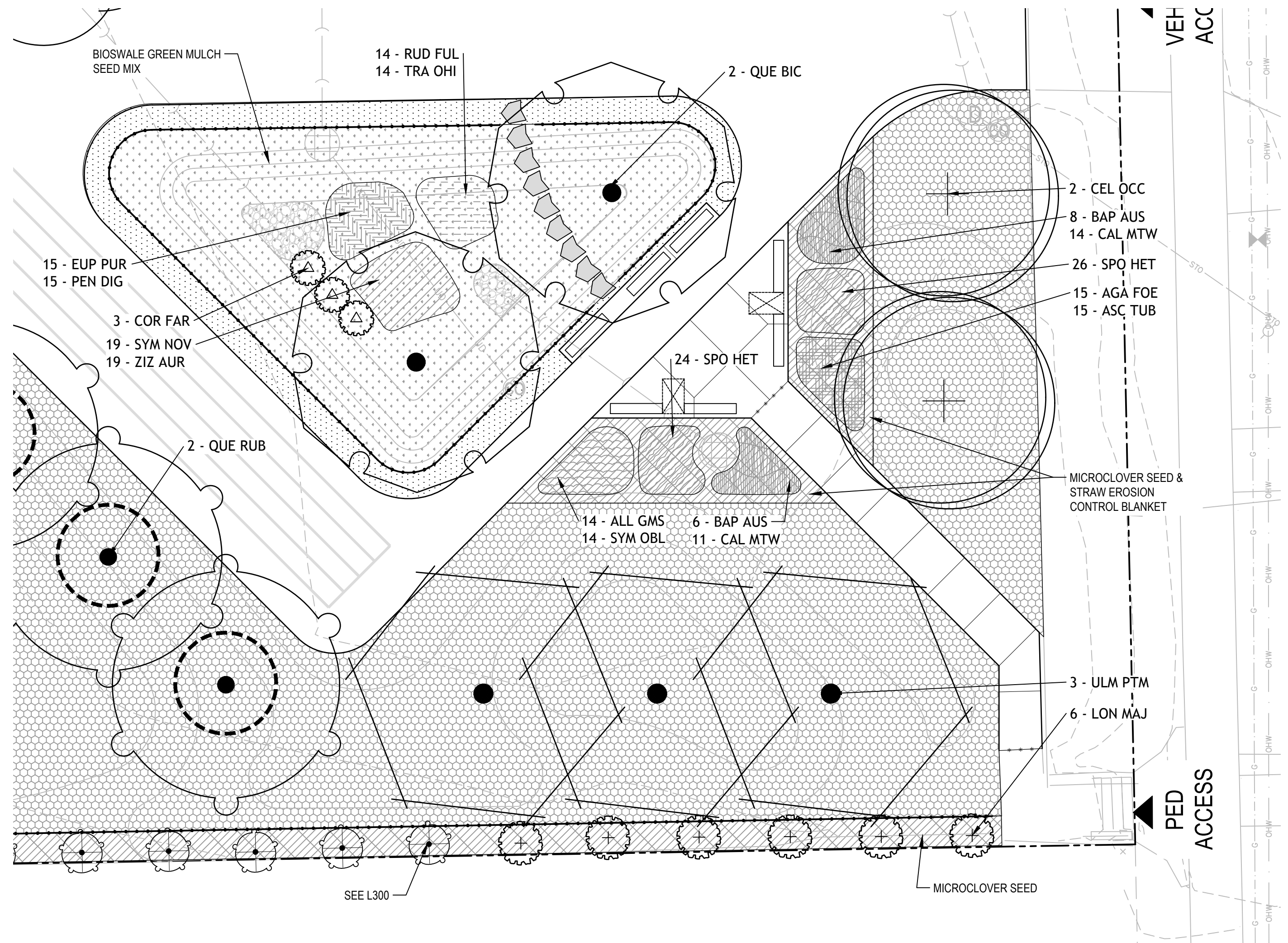
PROJECT NUMBER 8321, DIVISION 5

MPS PROJECT NUMBER

L300

DRAWING NUMBER

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1 BIOSWALE & MINDFULNESS GARDEN 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 5 - MINDFULNESS GARDEN

MIX 6 - MINDFULNESS GARDEN

MIX 7 - MINDFULNESS GARDEN

MIX 8 - MINDFULNESS GARDEN

SHEET NOTES

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

2024 GREEN INFRASTRUCTURE UPGRADES STORY ELEMENTARY SCHOOL

Owner:



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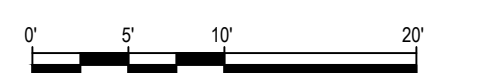
SEALS AND SIGNATURES

SITE ADDRESS

SITE # 343
3815 W KILBOURN AVENUE
MILWAUKEE, WI 53208

DRAWING TITLE

PLANTING PLAN ENLARGEMENTS



SCALE 14895

PROJECT NUMBER 8321, DIVISION 5

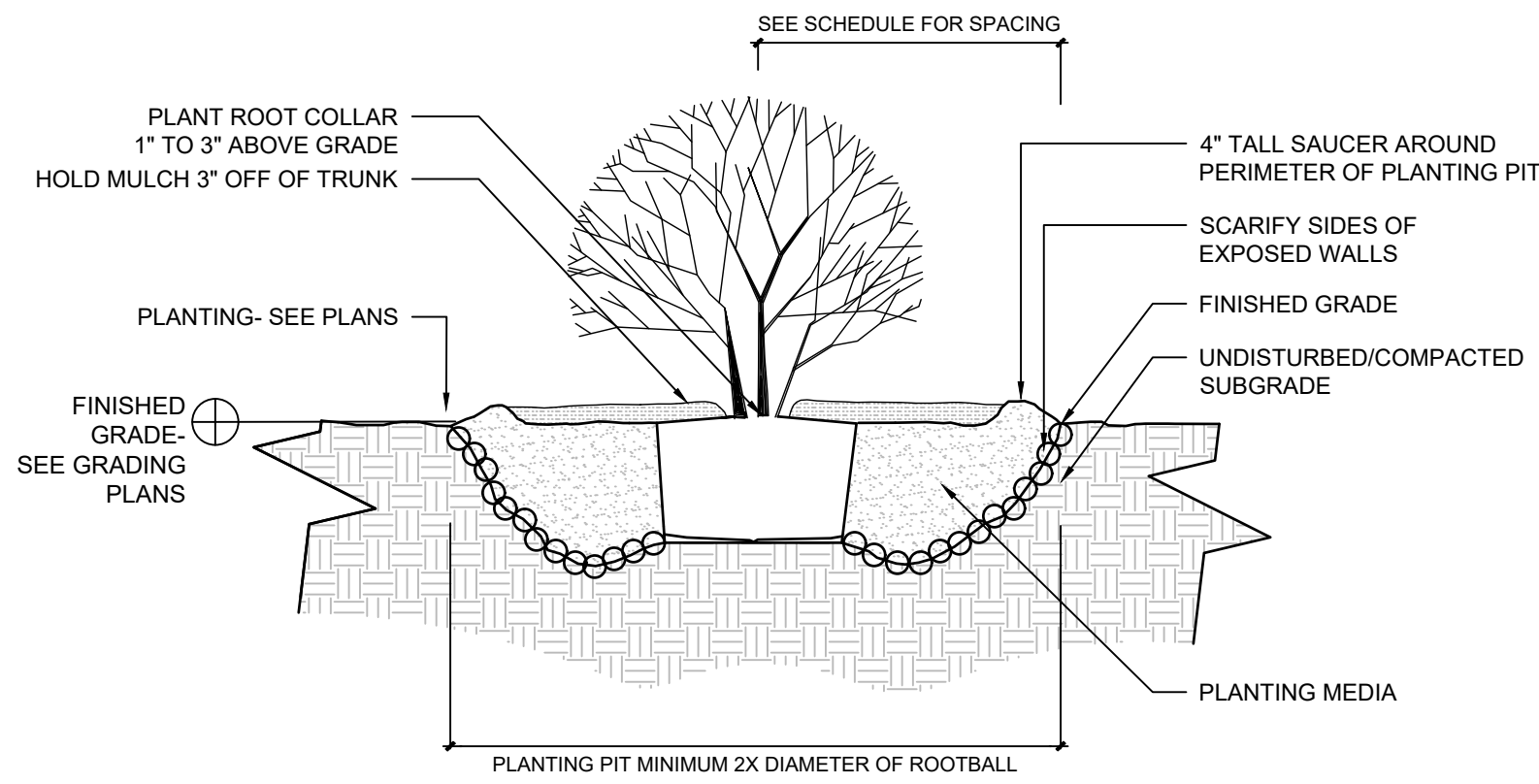
MPS PROJECT NUMBER

L301

DRAWING NUMBER

PLANTING NOTES

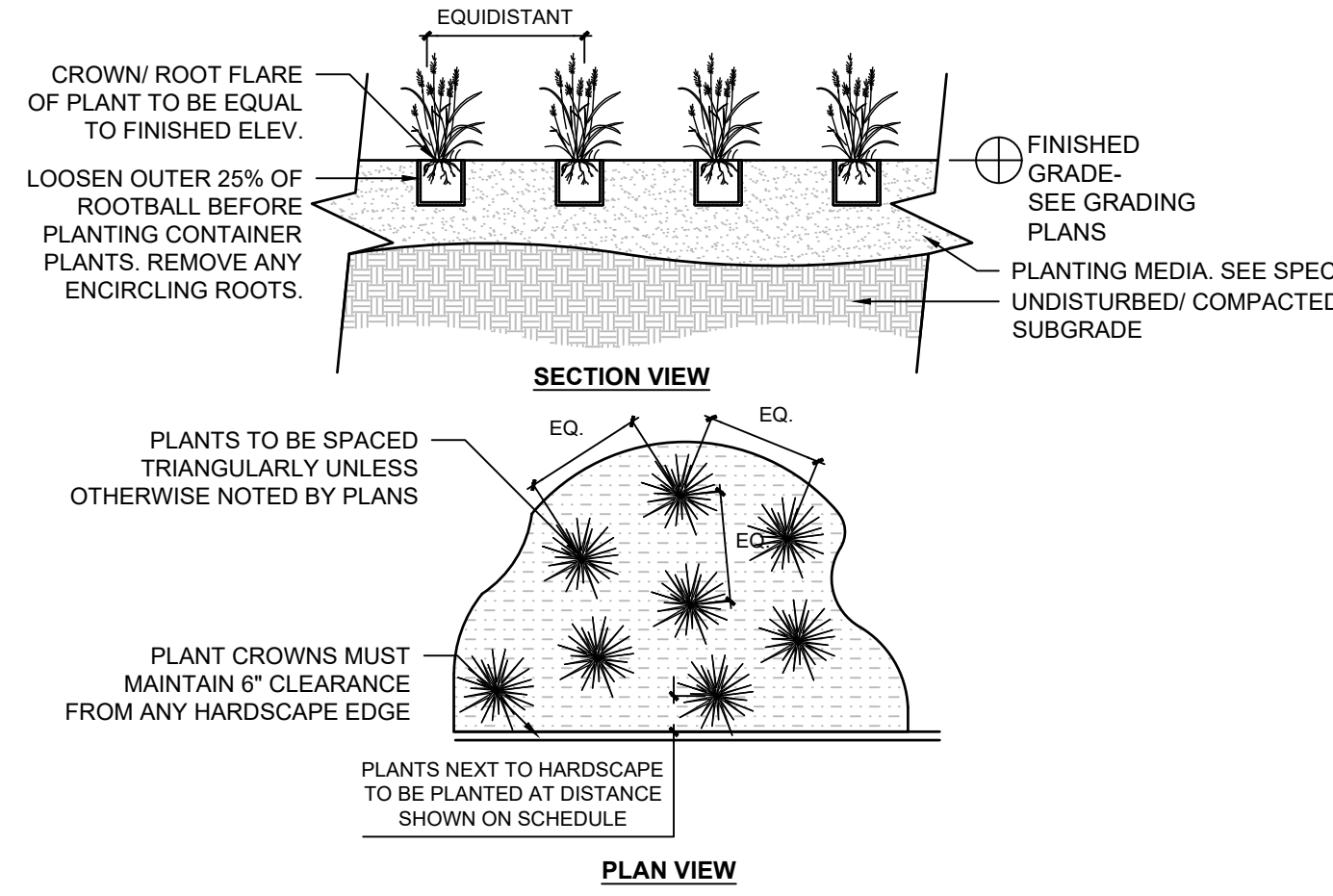
- CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATED TO THE NATURE AND SCOPE OF WORK.
- CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND AND ABOVE GROUND UTILITIES AND PROVIDE THE NECESSARY PROTECTION BEFORE CONSTRUCTION BEGINS.
- CONTRACTOR SHALL VERIFY PLAN LAYOUT 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

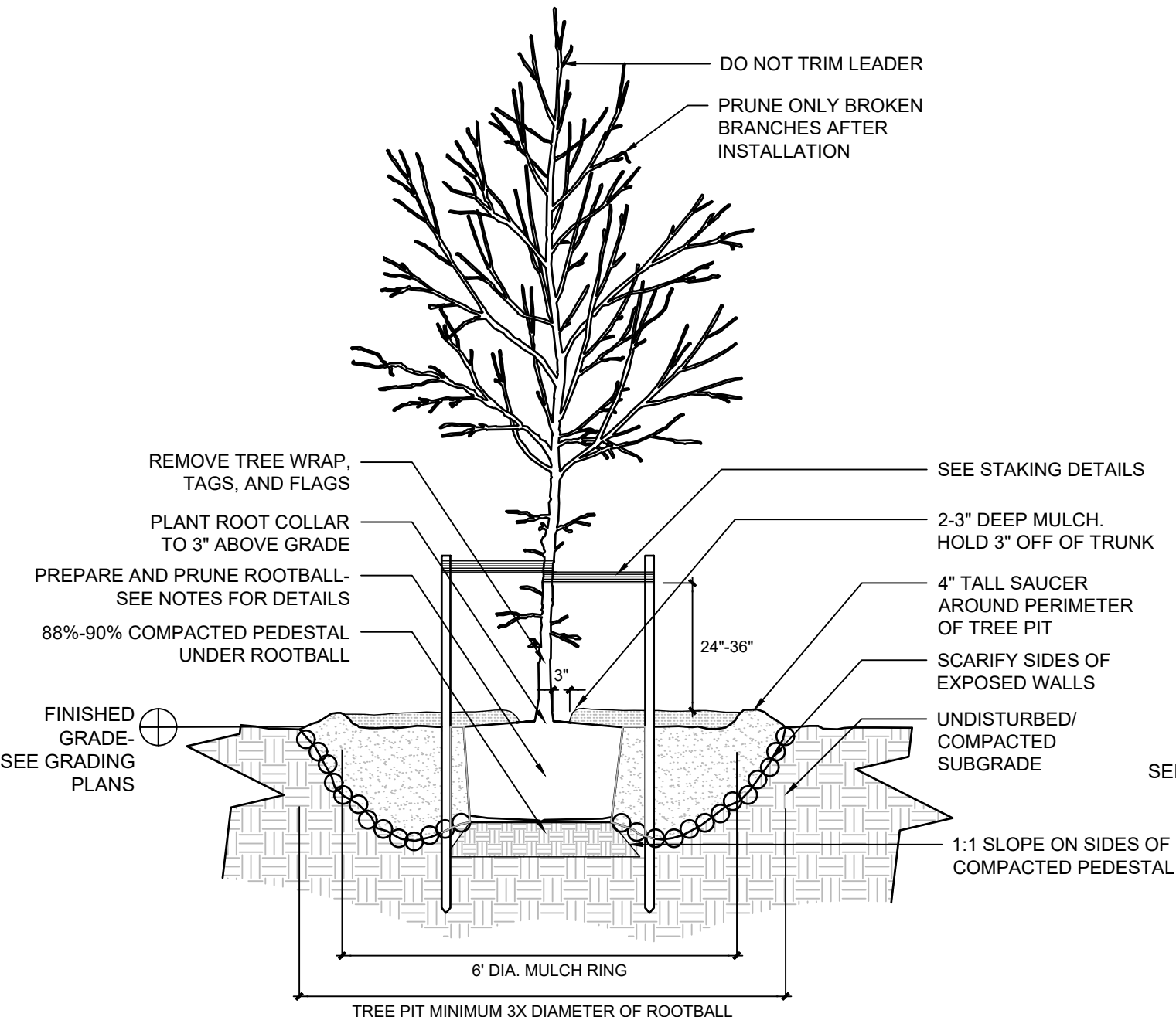
NOT TO SCALE



- 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 GROUND COVER SPECIES AND SPACING
 - SETTLE SOIL AROUND ROOT BALL AROUND EACH SPECIMEN BY THOROUGHLY WATERING

2 PLUG PLANTING

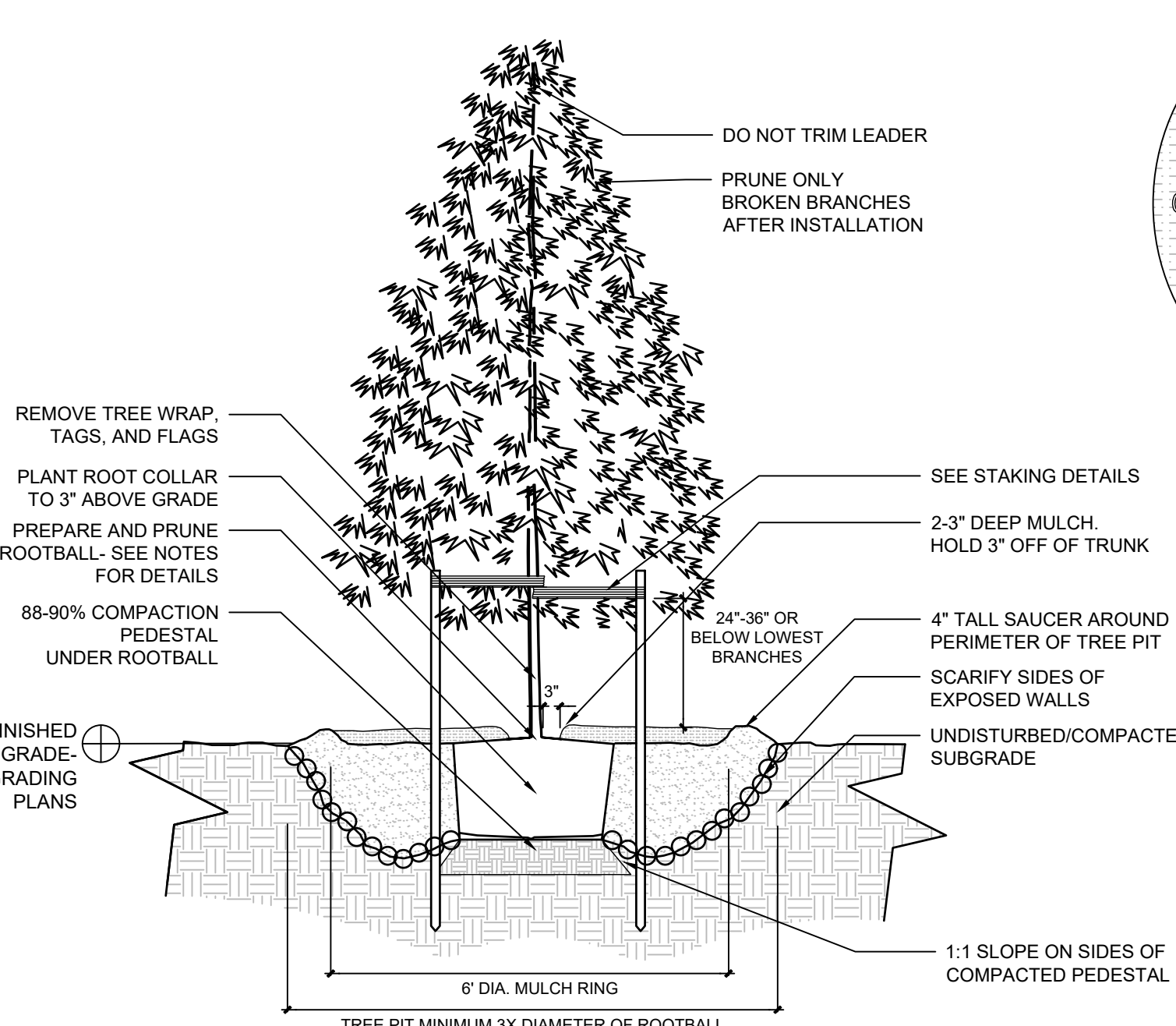
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- GENERAL NOTES:**
- PLANTING SPECIFICATIONS SHALL REFER TO ANY SOIL AMENDMENTS REQUIRED
 - USE TYPICAL TREE STAKING DETAIL UNLESS DESIGNATED AS "TREE INSTALLATION AND PROTECTION STAKING" ON PLANS
 - PLANTS ARE TO THOROUGHLY WATERED AFTER TRANSPLANTING 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

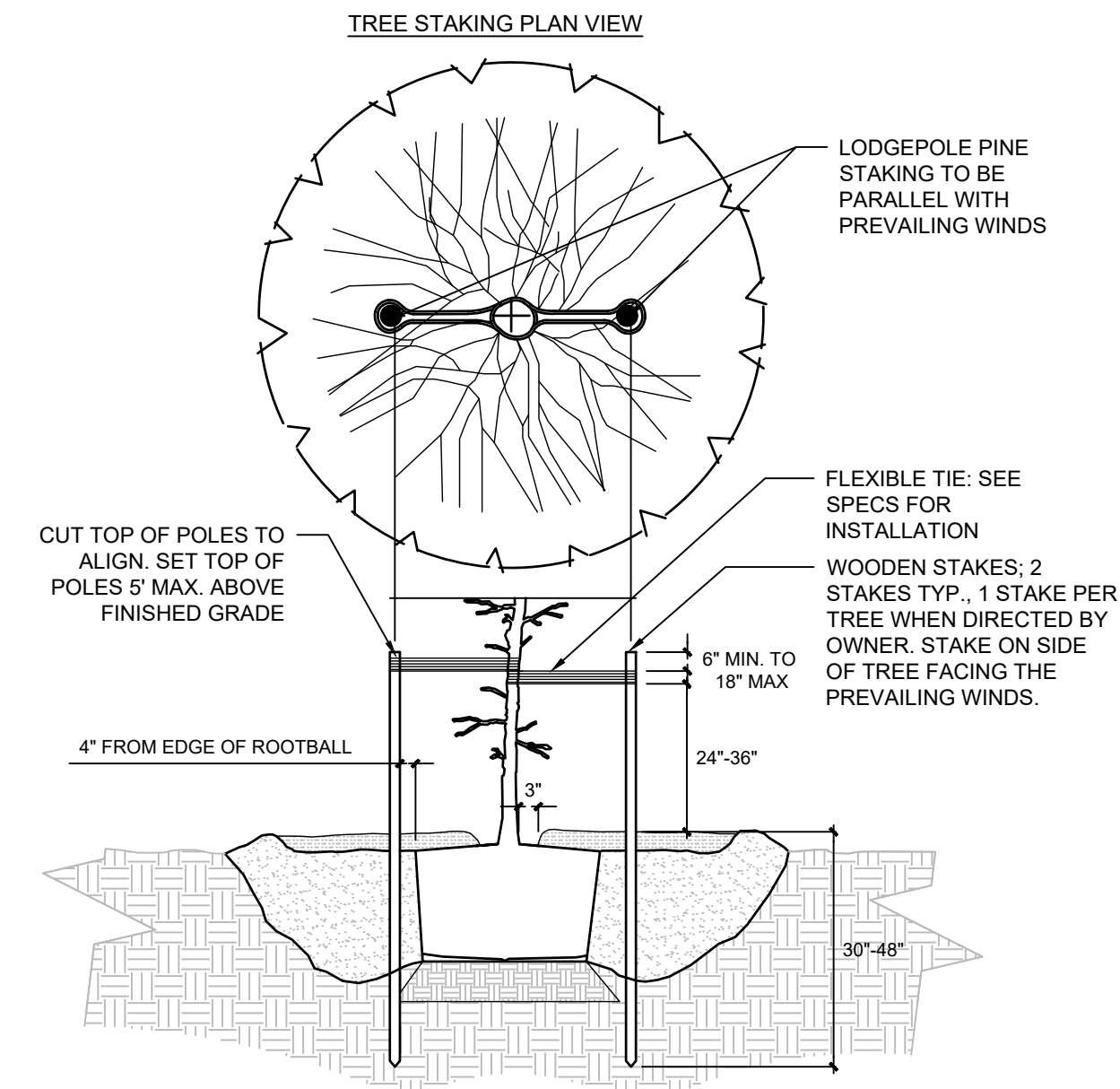
NOT TO SCALE



- 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

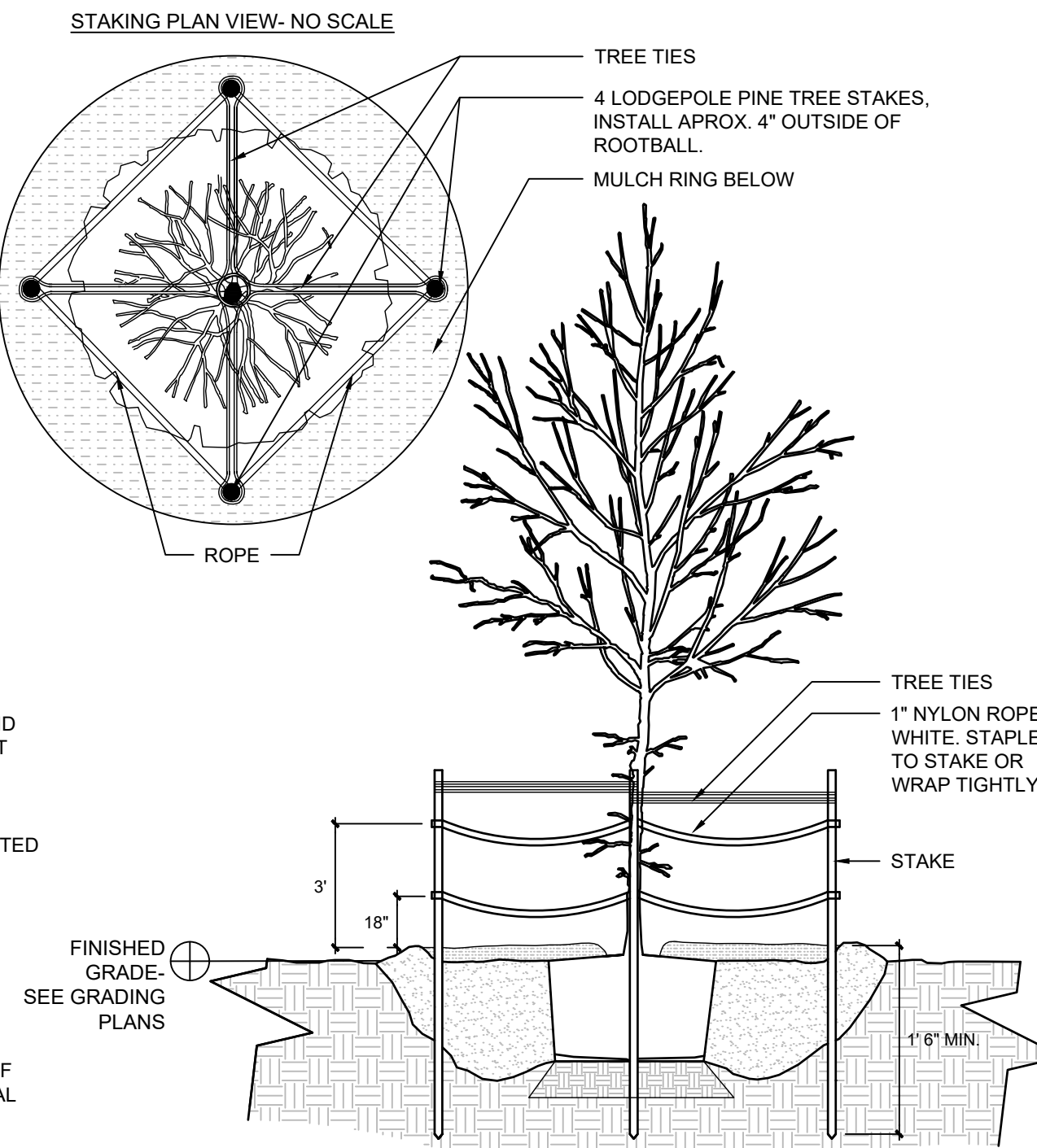
NOT TO SCALE



- 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 STORY ELEMENTARY SCHOOL



SMITHGROUP

233 NORTH WATER STREET
SUITE 502
MILWAUKEE, WI 53202
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 # 343
3815 W KILBOURN AVENUE
MILWAUKEE, WI 53208

PLANTING NOTES & DETAILS

SCALE	14895
PROJECT NUMBER	8321, DIVISION 5
MPS PROJECT NUMBER	L500
DRAWING NUMBER	

FILE: G:_stortcut-targets-by-id\0h2g2c8mhc_rq\A08PngZig6BaH\Project Folders\23-186 Smithgroup MPS Schools\DWG\05_Story_Elementary\14895-05-L300-PLANTING.dwg USER: hcro DATE: Jan, 25 2024 TIME: 09:40 am

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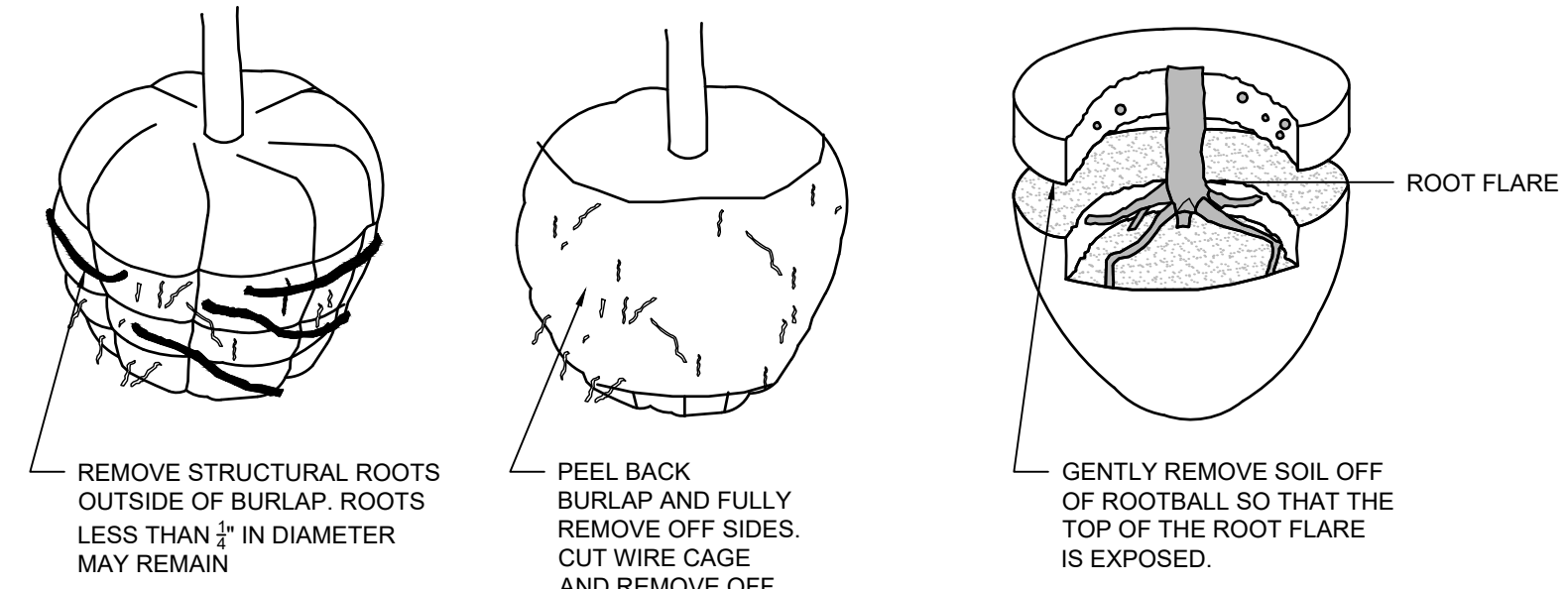
DRAWING TITLE
**PLANTING
DETAILS**

SCALE 14895

PROJECT NUMBER 8321, DIVISION 5

MPS PROJECT NUMBER **L501**

DRAWING NUMBER

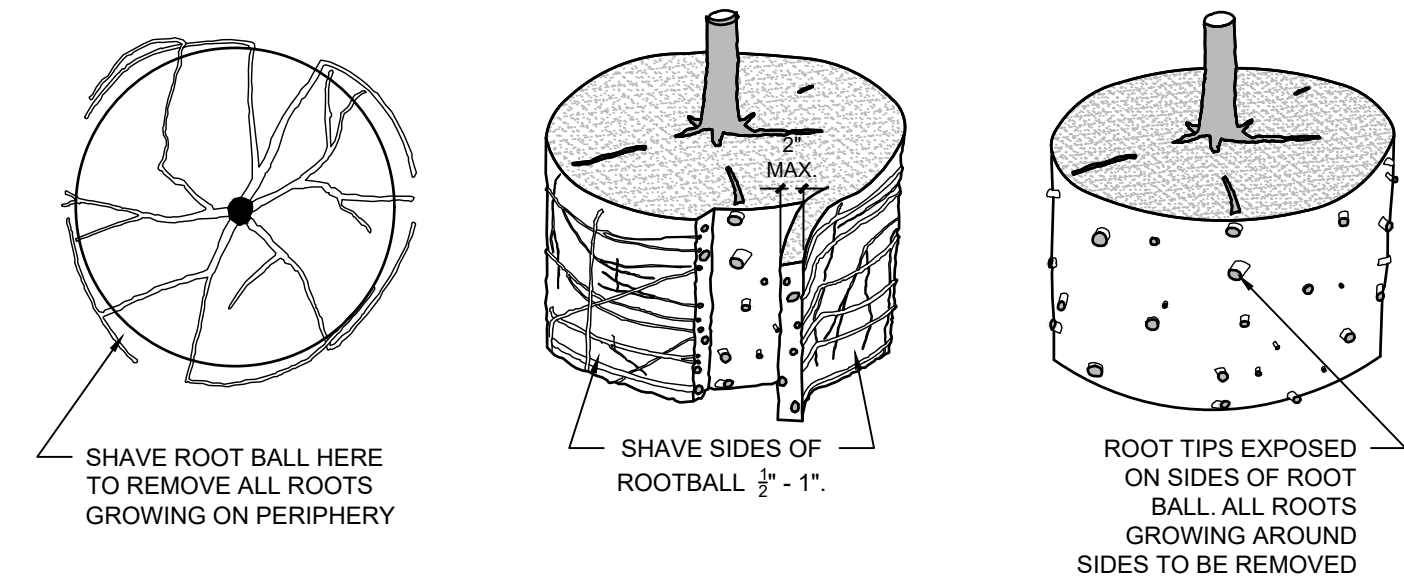


- GENERAL NOTES:**
- ALL PLANTS MUST HAVE BURLAP AND WIRE CAGE REMOVED FROM THE SIDES OF THE ROOTBALL.
 - FOR CONTAINER PLANTS, PLASTIC CONTAINERS MUST BE FULLY REMOVED.

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

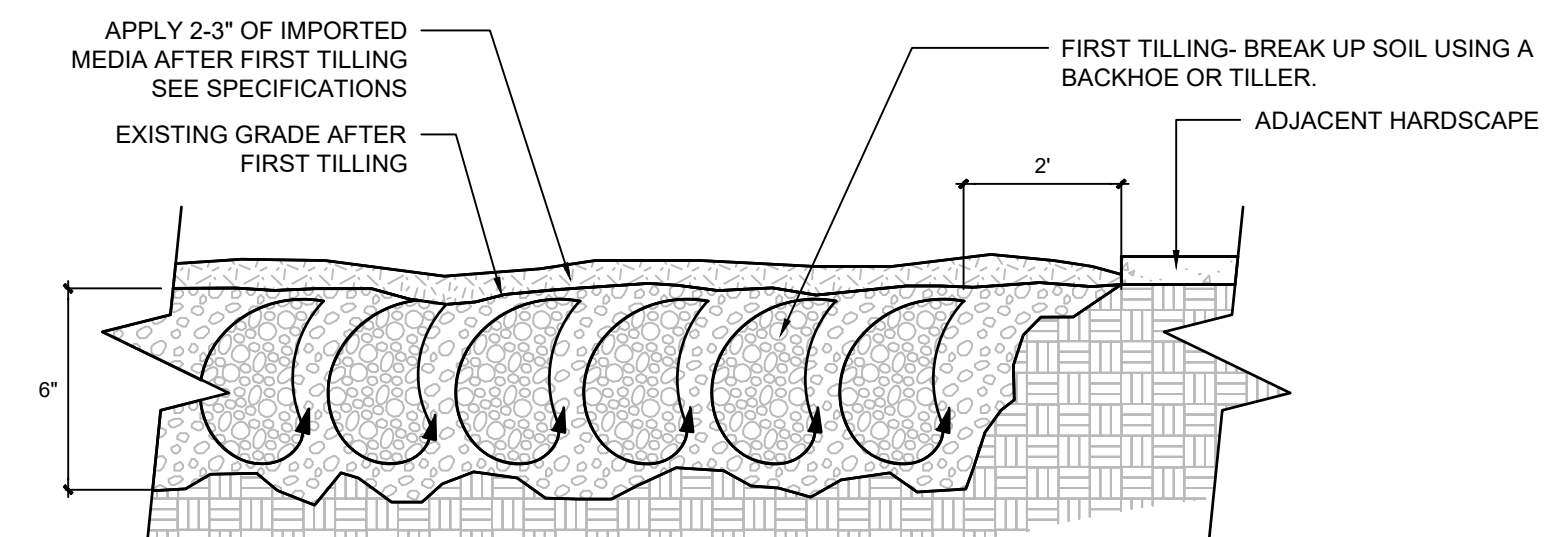


- GENERAL NOTES:**
- SHAVING TO BE CONDUCTED USING A CLEAN, SHARP BLADE OR HANDSAW.
 - BLADE MUST BE CLEANED AND STERILIZED BETWEEN ROOT SHAVINGS/
 - ROOT PRUNING ONLY TO OCCUR AT NURSERY OR IMMEDIATELY PRIOR TO TRANSPLANTING TO FINAL LOCATION.
 - ONLY SHAVE 15 GAL. CONTAINER PLANTS AND LARGER, INCLUDING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

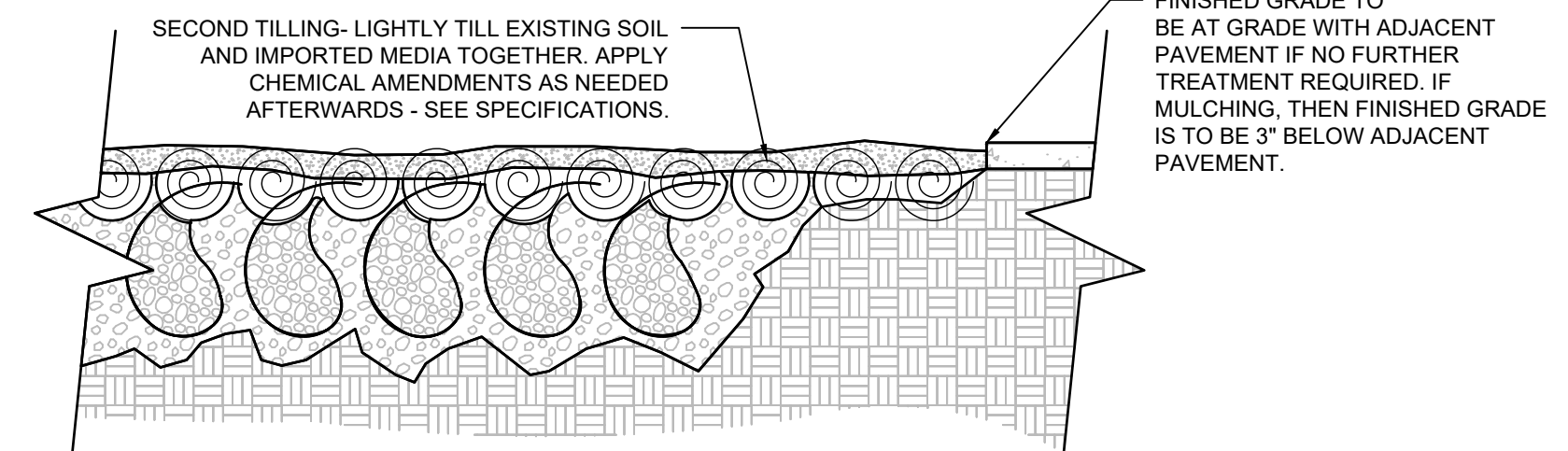
DNR NOTES: THIS PLANTING DETAIL CONFORMS TO TREE PLANTING GUIDELINES AS SPECIFIED IN DNR DOCUMENT 'DEVELOPING PLANTING SPECIFICATIONS' REVISED 10.25.

2 ROOT BALL PRUNING

NOT TO SCALE



STEP ONE



STEP TWO

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

3 SOIL AMENDMENT

NOT TO SCALE

FILE: G:_stortcut-targets-by-id\0h2g2c8mhC_rqXAO6PngZiq6BaH\Project_Folders\23-188_Smithgroup MPS_Schools\DWG\05_05_Story_Elementary\14895-05-L300-PLANTING.dwg USER: mcro DATE: Jan, 25 2024 TIME: 09:40 am

BIOSWALE GREEN MULCH SEED MIX



Botanical Name	Common Name	PLS
Cover Crop:		
Regreen	Regreen Winter Wheat	160
Grasses & Sedges:		
Carex breviar	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
STORY ELEMENTARY SCHOOL

Owner:



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PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	PLANTING SIZE	MATURE HT	MATURE SP	QTY
TREES							
	ACE JEF	Acer x freemanii 'Jeffsred' / Autumn Blaze Maple	B & B	2.5" Min. Cal.	50'	40'	9
	CEL OCC	Celtis occidentalis / Common Hackberry	B & B	2.5" Min. Cal.	60'	60'	5
	QUE BIC	Quercus bicolor / Swamp White Oak	B & B	2.5" Min. Cal.	75'	65'	2
	QUE RUB	Quercus rubra / Red Oak	B & B	2.5" Min. Cal.	75'	75'	6
	ULM MOR	Ulmus x 'Morton Accolade' / Accolade Elm	B & B	2.5" Min. Cal.	70'	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'	3

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