



22 East Chicago Avenue
Suite 200A
Naperville, IL 60540
T 630.961.1787
hitchcockdesigngroup.com

Bock Park Phase One

17500 Lorenz Avenue, Lansing, IL 60438

Lan-Oak Park District
2550 178th Street, Lansing, IL 60438

ISSUE FOR BID JANUARY 8, 2025

Project Team

Landscape Architect Sheets: L-series
Hitchcock Design Group
22 East Chicago Avenue, Suite 200A
Naperville, Illinois 60540
T 630.961.1787

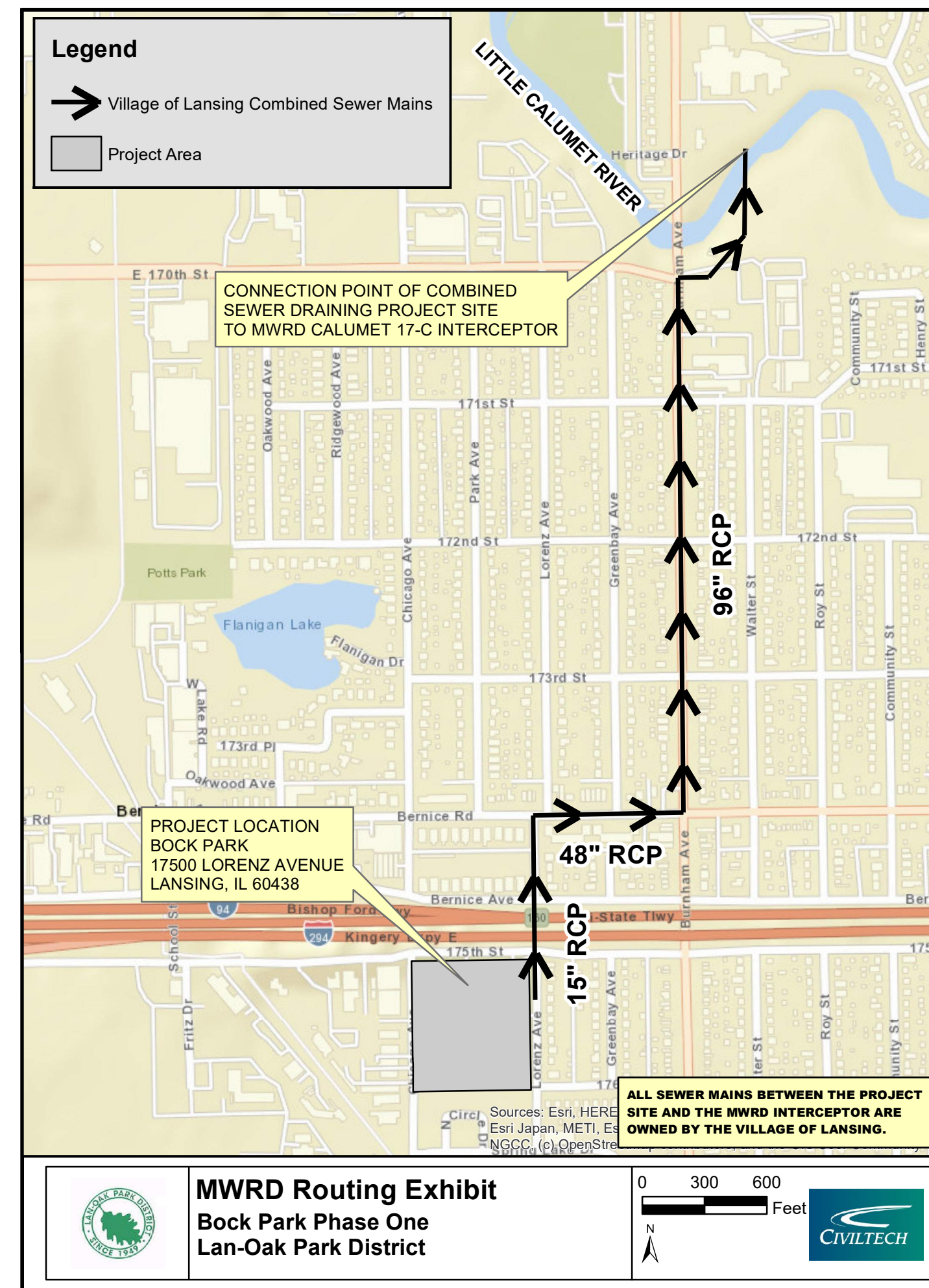
Civil Engineer Sheets C-series
Civiltech Engineering, Inc.
30 N. LaSalle St, Suite 3220
Chicago, Illinois
T: 312.726.5910

DRAINAGE CERTIFICATION:

THE STORMWATER ELEMENTS IN THIS PLAN SET HAVE BEEN DESIGNED SUCH THAT THE PROPOSED DEVELOPMENTS WILL NOT RESULT IN AGGREGATE INCREASES OF STORMWATER FLOWS, VELOCITIES, OR ELEVATIONS EITHER UPSTREAM OR DOWNSTREAM OF THE PROJECT SITE.



Date: 01/02/2025
License expires: 11/30/2025



General Notes

- Basemap information obtained from survey prepared by W-T Land Surveying, Inc. dated March 20, 2018.
- Verify site conditions and information on drawings. Promptly report any concealed conditions, mistakes, discrepancies or deviations from the information shown in the Contract Documents. The Owner is not responsible for unauthorized changes or extra work required to correct unreported discrepancies.
- Secure and pay for permits, fees and inspections necessary for the proper execution of this work. Comply with codes applicable to this work.
- Refer to specifications for additional conditions, standards and notes.
- The plans and specifications are intended to be completed entirely by the contractor. Unless clearly identified as "By Owner," all work contained within is the responsibility of the general contractor.
- The Village of Lansing Building Department must be notified at least 2 (two) working days prior to the commencement of any work.
- The contractor shall construct the proposed improvements in accordance with the engineering plans as approved by MWRD and the Village of Lansing. All work shall be in accordance with the Village of Lansing Code of Ordinances.
- Record construction drawings shall be kept by the contractor and submitted to the Village of Lansing upon completion of the underground work.

Sheet Index

L-Series	
L1.0	Existing Conditions Plan
L2.0	Site Preparation and Removals Plan
L3.0	Layout and Materials Plan
L4.0	Planting Plan
L5.0	Details
L5.1	Details
L5.2	Details
L5.3	Details
C-Series	
C1.1	Erosion / Sediment Control and Restoration Plan
C2.1	Drainage Plan
C3.1	Grading Plan
C4.1	Details
C4.2	Details
C4.3	Details
C4.4	Details
C4.5	Details
C5.1	MWRD General Notes
C5.2	MWRD Exhibit R
C5.3	MWRD Drainage Exhibit



It's smart. It's free. It's the law.

Call before you dig.
800.892.0123

Contact the Metropolitan Water Reclamation District of Greater Chicago 2 days before starting work.

P (708) 588-4055
E WMOJobStart@mwr.org

TRi-STATE TOLLWAY

LEGEND table with symbols for PROPERTY LINE, UTILITY POLE, SOIL BORING, etc.

- NOTES: 1. SITE BENCHMARK #1 - CROSS SET ON WESTERLY FLANGE BOLT ON HYDRANT... 2. SITE BENCHMARK #2 - CROSS SET ON SOUTH SIDE OF MANHOLE RIM... 3. SITE BENCHMARK #3 - CROSS SET ON WEST SIDE OF MANHOLE RIM...



22 E. Chicago Avenue Suite 200A Naperville, IL 60540 T 630.961.1787 hitchcockdesigngroup.com

PREPARED FOR Lan-Oak Park District 2550 178th Street Lansing, IL 60438

PROJECT Bock Park Phase One 17500 Lorenz Avenue Lansing, IL 60438

CONSULTANTS Civil Engineering, Inc. 30 N. LaSalle St. Suite 3220 Chicago, IL 60602 T 312.726.5910

ISSUE FOR BID JANUARY 8, 2025 REVISIONS

Table with columns: No, Date, Issue

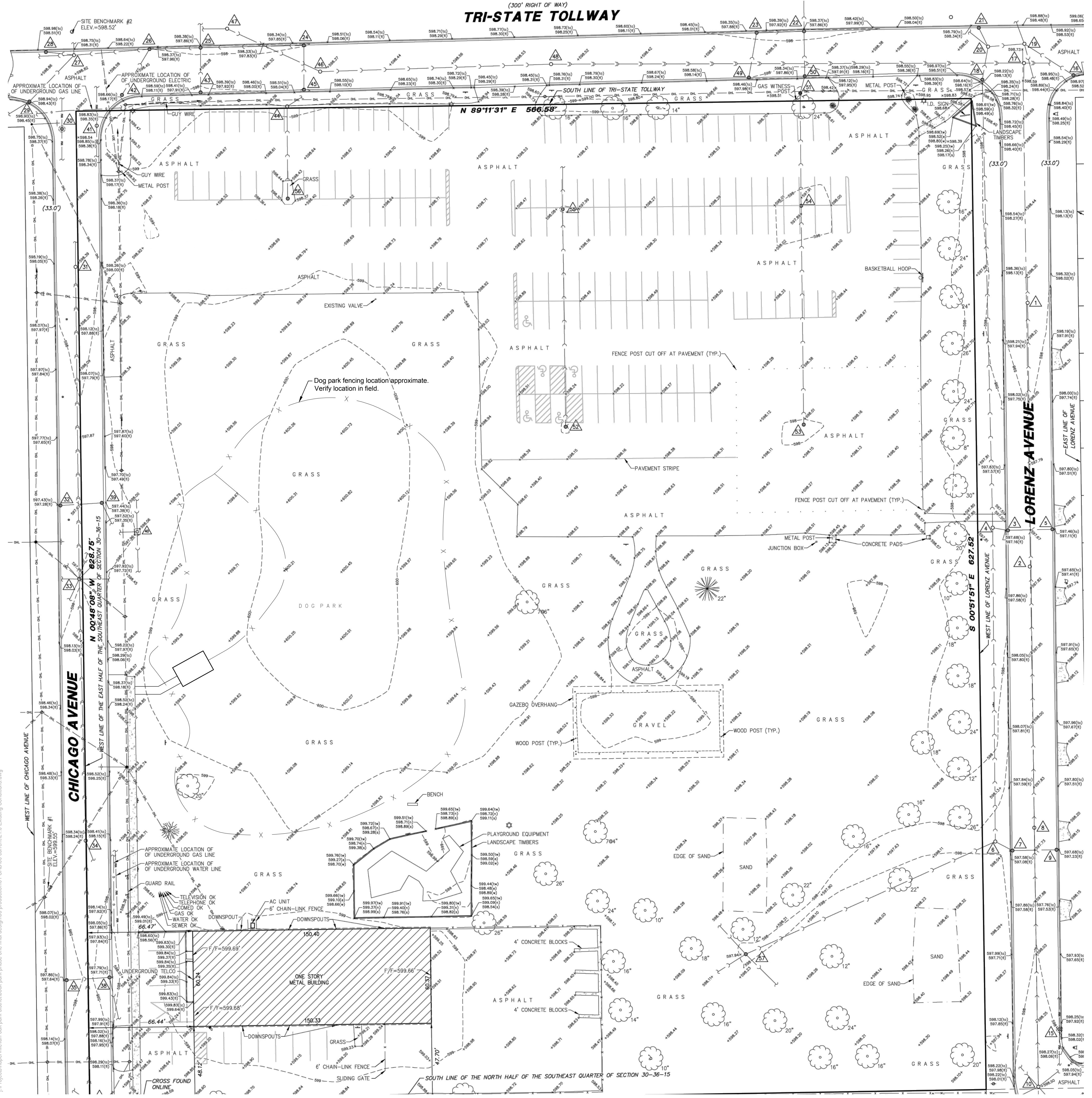
CHECKED BY DNF DRAWN BY LKH

SHEET TITLE Existing Conditions

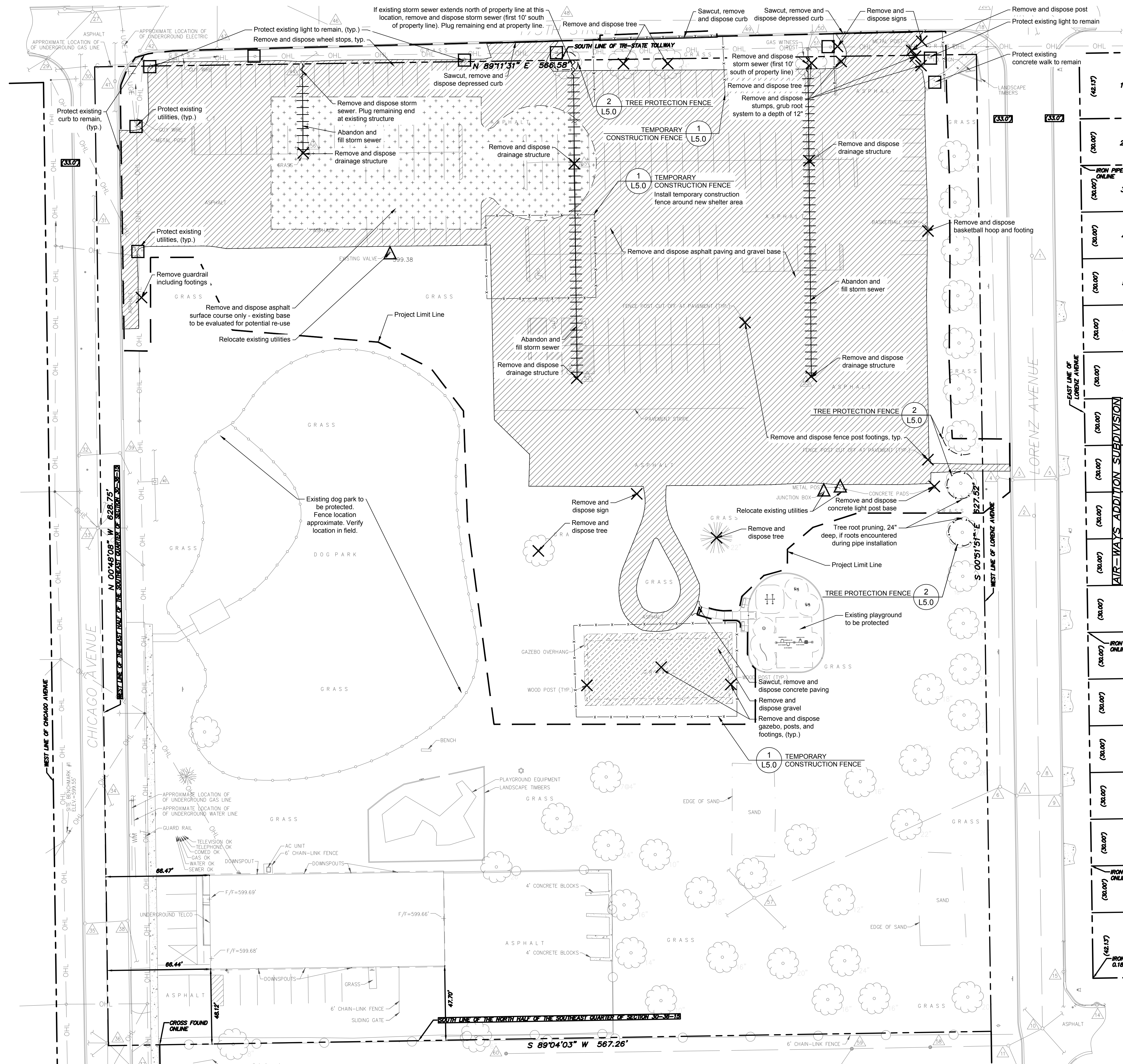
SCALE IN FEET 1" = 30'

SHEET NUMBER L1.0

©2025 Hitchcock Design Group



J:\Projects\lanpark\lanpark.dwg hitchcock park phase one final design\production\1 CAD000 current\1.D Existing Conditions.dwg



SITE PREPARATION AND REMOVALS NOTES

1. Contractor shall install construction fence at the limits of construction prior to beginning work. Maintain and adjust construction fencing as needed during progress of construction. Staging and construction access shall be approved by Owner.
2. Contractor shall install tree protection fencing as shown on the plans prior to beginning work. Maintain and adjust tree protection fencing as needed during progress of construction. Storage of materials, vehicular access, and all other construction activities are strictly prohibited within the limits of the tree protection fencing.
3. Plans indicate general location and limits of removals. Contractor shall perform removals only as necessary for construction of proposed improvements. No additional payments will be made for removals or restoration not required to construct the improvements as drawn and specified. Refer to Layout Plan for more specific information regarding proposed improvements and verify conditions in the field prior to performing removals.
4. Sawcut and remove concrete paving to nearest joint where indicated. All saw cuts required for removal items to be included in the unit cost of that particular pay item.
5. Tree stumps shall be ground to a minimum depth of 18" below existing grade or as required to properly perform the work.
6. Remove and dispose of turf where planting beds are designated. Refer to Planting Plan for limits of proposed landscape improvements.
7. Where turf or plantings are proposed in existing paved areas, remove all base material.
8. Remove all utilities designated for removal to extent required for improvements, unless otherwise noted. Cap ends of any remaining underground conduit and piping, and pull all electrical wire out at source.
9. Items indicated for Removal shall include complete removal of above grade item and below grade appurtenances (foundations, urban fill, wiring, piping, etc.) including disposal off-site following applicable codes and ordinances, unless otherwise shown on the plans.
10. Items indicated as Remove and Salvage shall include careful protection, removal, and storage of items. For reinstall items, Contractor shall store during construction. All other Salvage items shall be delivered to location as indicated by owner unless otherwise shown on the plans.
11. Contractor to protect all existing utilities and all other site features not designated for removal. Contractor is responsible for replacing/repairing any existing utilities or other site features damaged during construction to the original condition at no cost to the Owner.
12. Contractor responsible for maintaining existing utility services (electrical, sanitary, storm) during construction unless otherwise indicated in the Contract Documents.
13. Contractor shall coordinate all work so public sidewalk remains open throughout construction.
14. Refer to civil plans for additional utility adjustments and removals.
15. Refer to specifications for additional conditions, standards and notes.

SITE PREPARATION AND REMOVALS LEGEND

- Remove and dispose asphalt paving and gravel base. Remove subgrade material as needed.
- Remove and dispose concrete paving and gravel base. Remove subgrade material as needed.
- Remove and dispose gravel
- Remove and dispose asphalt surface course only - existing base to be evaluated for potential re-use.
- Tree Protection Fence
- Item to be protected
- Item to be relocated
- Item to be removed and disposed
- Limit of sawcut
- Curb to be removed
- Temporary Construction Fence
- Remove and dispose storm sewer
- Abandon and fill storm sewer
- Project Limit Line

HITCHCOCK DESIGN GROUP
creating better places

22 E. Chicago Avenue
Suite 200A
Naperville, IL 60540
T 630.961.1787
hitchcockdesigngroup.com

PREPARED FOR
Lan-Oak Park District
2550 178th Street
Lansing, IL 60438

PROJECT
**Bock Park
Phase One**
17500 Lorenz Avenue
Lansing, IL 60438

CONSULTANTS
Civil Engineering
Civiltech Engineering, Inc.
30 N. LaSalle St. Suite 3220
Chicago, IL 60602
T 312.726.5910

ISSUE FOR BID
JANUARY 8, 2025

REVISIONS

No	Date	Issue

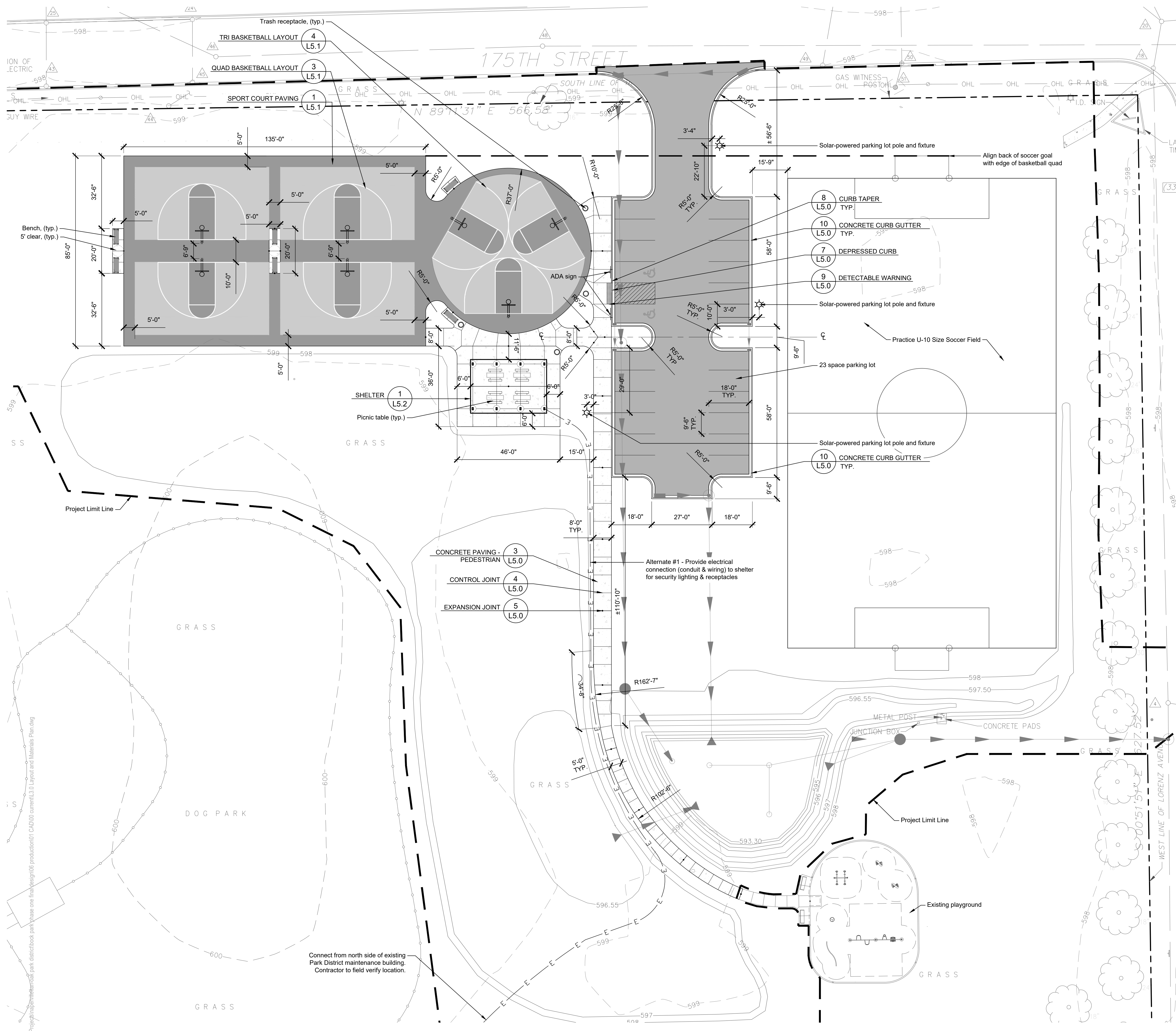
CHECKED BY: DNF DRAWN BY: LKH

SHEET TITLE
Site Preparation and Removals

SCALE IN FEET
1" = 30'

NORTH SHEET NUMBER
L2.0

©2025 Hitchcock Design Group



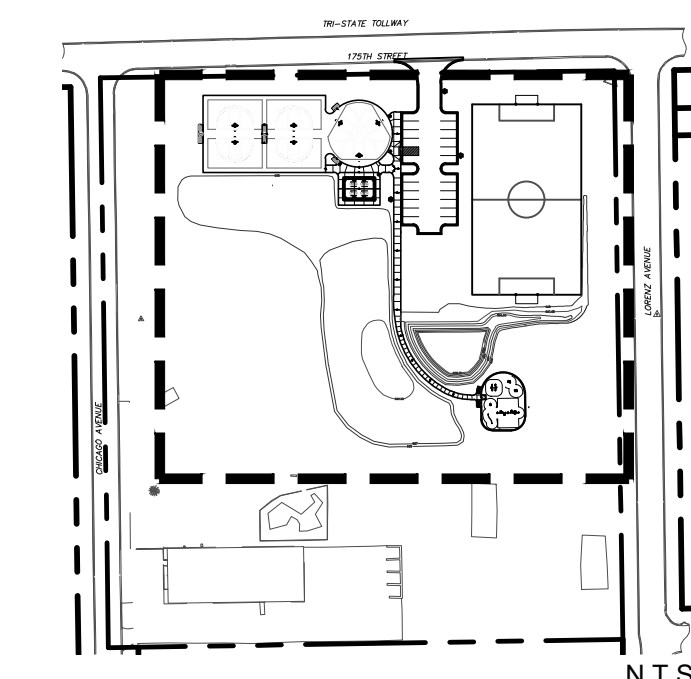
LAYOUT NOTES

- Contractor responsible for field layout of all new improvements. Digital files of geometric information will be provided upon request in AutoCAD format. No additional payment will be made for adjustments necessary to construct the work as drawn.
- Contractor responsible to coordinate work in order to obtain approval of all layout by Owners Representative prior to construction. No additional payment will be made to correct work if constructed incorrectly without pre-approval by Owners Representative.
- Contractor responsible to maintain all layout stakes during construction. No additional payment will be made to replace layout stakes.
- Place stakes at edges of sport courts, shelter, and every 25 feet on center along centerline of all pathways for review by the Owner's Representative prior to earthwork operations.
- All walls are dimensioned to Face of Wall unless otherwise noted.
- All dimensions from roadway are from Back of Curb unless otherwise noted.
- All curves and radii to be smooth and not segmented.
- Contractor to provide layout stakes every 10 feet minimum for large arcs where radius points are not accessible.
- Adjustment to stake locations due to discrepancies between coordinates and dimensions is incidental to the contract. No additional payments will be made for this work.
- All roadway widths are measured from edge of pavement to edge of pavement unless otherwise shown on the plans.
- Contractor responsible to take delivery, assemble and install all materials and furnishings per manufacturer's instructions.
- Place control and expansion joints as shown on plans and details for all curbs, walks, walls, steps, and concrete paving. Where joints are not shown, place control joints a maximum of 10 feet on center, expansion joints a maximum of 30 feet on center, and between all separate pours.
- Refer to specifications for additional conditions, standards and notes.

LAYOUT LEGEND

- Concrete Paving - Pedestrian
- Asphalt Paving - Vehicular
- Sport Court Paving - see details for color coating layout
- Solar-powered parking lot pole and fixture, (typ.)
- Project Limit Line

KEY PLAN



22 E. Chicago Avenue
Suite 200A
Naperville, IL 60540
T 630.961.1787
hitchcockdesigngroup.com

PREPARED FOR
Lan-Oak Park District
2550 178th Street
Lansing, IL 60438

PROJECT
Bock Park Phase One
17500 Lorenz Avenue
Lansing, IL 60438

CONSULTANTS
Civil Engineering
Civiltech Engineering, Inc.
30 N. LaSalle St. Suite 3220
Chicago, IL 60602
T 312.726.5910

ISSUE FOR BID
JANUARY 8, 2025
REVISIONS

No	Date	Issue

CHECKED BY: DNF
DRAWN BY: LKH

SHEET TITLE
Layout and Materials Plan

SCALE IN FEET
1" = 20'
0' 10' 20' 60'

NORTH
SHEET NUMBER
L3.0

Basin Bottom Mix - Emergent Planting

scientific name	common name	size	spacing	plants/acre
<i>Alisma subcordatum</i>	common water plantain	plug	12" O.C.	500
<i>Asclepias incarnata</i>	swamp milkweed	plug	12" O.C.	500
<i>Bolboschoenus fluviatilis</i>	river bulrush	plug	12" O.C.	1000
<i>Bidens cernua</i>	nodding bur marigold	plug	12" O.C.	500
<i>Bidens frondosa</i>	beggarstick	plug	12" O.C.	500
<i>Carex bebbii</i>	bebbs sedge	plug	12" O.C.	500
<i>Carex scoparia</i>	pointed broom sedge	plug	12" O.C.	500
<i>Carex stipata</i>	awlfruit sedge	plug	12" O.C.	500
<i>Carex vulpinoidea</i>	brown fox sedge	plug	12" O.C.	1000
<i>Eupatorium perfoliatum</i>	common boneset	plug	12" O.C.	500
<i>Eutrochium maculatum</i>	spotted joe-pye weed	plug	12" O.C.	500
<i>Helenium autumnale</i>	sneezeweed	plug	12" O.C.	500
<i>Iris virginica v. shrevei</i>	blue flag	plug	12" O.C.	500
<i>Juncus effusus</i>	soft rush	plug	12" O.C.	1000
<i>Leersia oryzoides</i>	rice cut grass	plug	12" O.C.	1000
<i>Lobelia siphilitica</i>	great blue lobelia	plug	12" O.C.	500
<i>Lycopus americanus</i>	common water horehound	plug	12" O.C.	500
<i>Mimulus ringens</i>	monkey flower	plug	12" O.C.	500
<i>Panicum virgatum</i>	switch grass	plug	12" O.C.	2000
<i>Penthorum sedoides</i>	ditch stonecrop	plug	12" O.C.	500
<i>Rudbeckia subtomentosa</i>	sweet black-eyed susan	plug	12" O.C.	500
<i>Schoenoplectus pungens</i>	chairmakers rush	plug	12" O.C.	1000
<i>Schoenoplectus tabernaemontani</i>	great bulrush	plug	12" O.C.	1000
<i>Scirpus atrovirens</i>	dark green rush	plug	12" O.C.	2000
<i>Scirpus cyperinus</i>	wood grass	plug	12" O.C.	1000
<i>Scirpus pendulus</i>	red bulrush	plug	12" O.C.	1000
<i>Symphotrichum lanceolatum</i>	panicked aster	plug	12" O.C.	500
<i>Symphotrichum novae-angliae</i>	new england aster	plug	12" O.C.	500
<i>Verbena hastata</i>	blue vervain	plug	12" O.C.	500
<i>Vernonia fasciculata</i>	common ironweed	plug	12" O.C.	500

Total plants per acre 22000

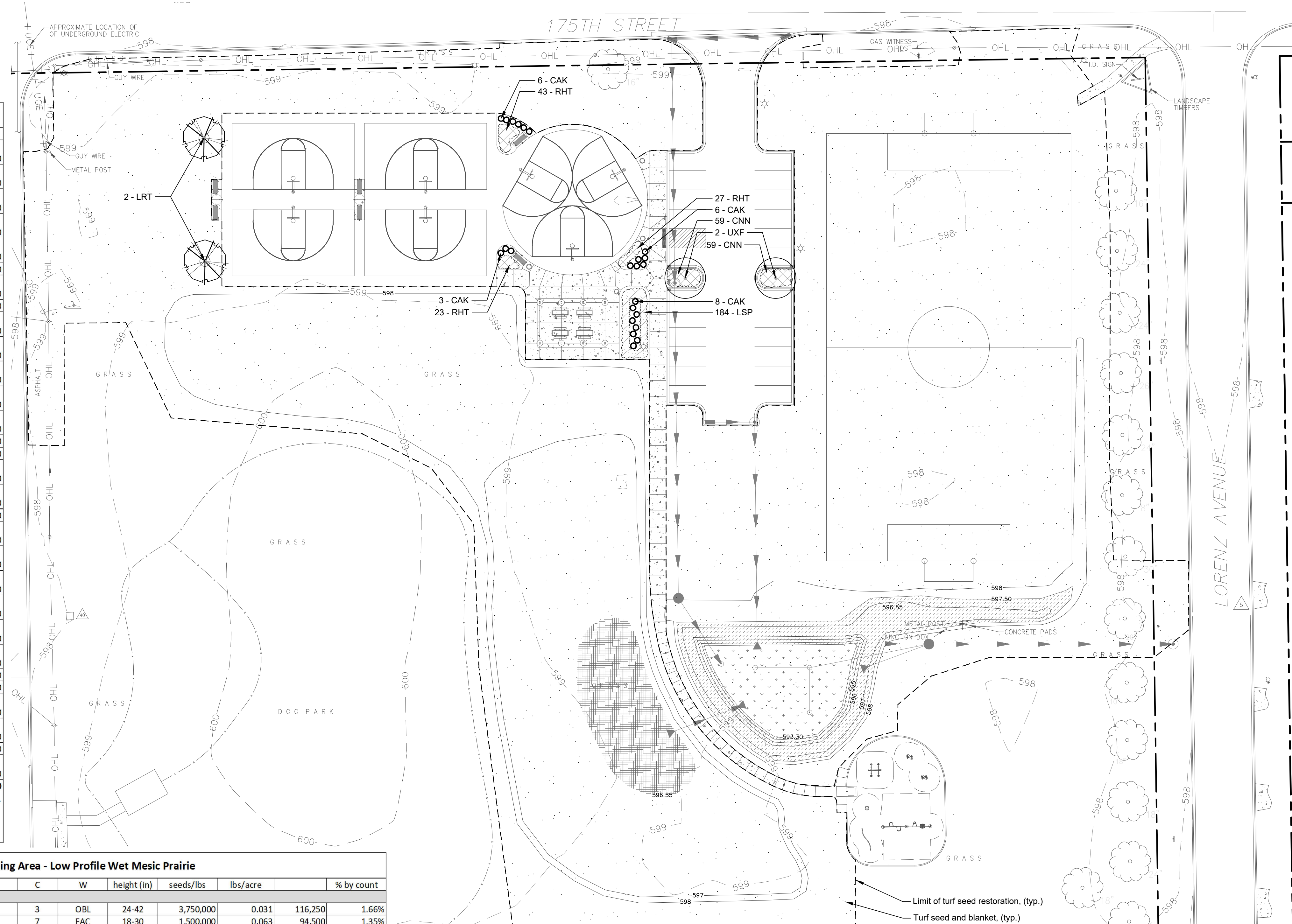
Plant plugs in clumps ranging in size from 100 sq ft to 500 sq ft. A minimum of 5 species and a maximum of 10 species shall be planted per clump with no more than 100 plants of any one species per clump.

Native Planting Area - Low Profile Wet Mesic Prairie

scientific name	common name	C	W	height (in)	seeds/lbs	lbs/acre	% by count
Grasses							
<i>Calamagrostis canadensis</i>	blue joint grass	3	OBL	24-42	3,750,000	0.031	116,250
<i>Carex annectens xanthocarpa</i>	yellow sedge	7	FAC	18-30	1,500,000	0.063	94,500
<i>Carex bebbii</i>	bebbs sedge	6	OBL	24-36	1,800,000	0.500	900,000
<i>Carex molesta</i>	troublesome sedge	2	FAC+	24-48	580,000	0.125	72,500
<i>Carex scoparia</i>	pointed broom sedge	7	FACW	12-36	1,400,000	0.125	175,000
<i>Carex vulpinoidea</i>	fox sedge	2	OBL	24-36	1,555,000	0.500	777,500
<i>Elymus canadensis</i>	canada wild rye	4	FAC-	24-48	120,000	1.000	120,000
<i>Elymus virginicus</i>	virginia wild rye	4	FACW-	18-36	92,000	2.000	184,000
<i>Glyceria striata</i>	fowl manna grass	4	FACW	18-36	2,450,000	0.250	612,500
<i>Juncus tenuis</i>	slender rush	0	FACU+	9-18	48,000,000	0.016	768,000
<i>Juncus torreyi</i>	torryst rush	4	FACW	6-18	38,000,000	0.015	570,000
<i>Panicum virgatum</i>	prairie switch grass	5	FAC+	30-72	317,000	2.000	634,000
<i>Schizachyrium scoparium</i>	little bluestem	5	FACU-	18-40	250,000	3.000	750,000
<i>Scirpus atrovirens</i>	dark green rush	4	OBL	24-60	9,300,000	0.125	1,162,500
<i>Sporobolus heterolepis</i>	prairie dropseed	10	FACU-	24-36	230,000	0.250	57,500
Grasses total					109,344,000	10.000	6,994,250
Forbs							
<i>Asclepias incarnata</i>	swamp milkweed	4	OBL	24-48	90,000	0.125	11,250
<i>Eupatorium perfoliatum</i>	thoroughwort	4	FACW+	18-36	3,150,000	0.062	195,300
<i>Liatris pycnostachya</i>	prairie gayfeather	8	FAC-	12-36	164,000	0.250	41,000
<i>Liatris spicata</i>	spike blazingstar	6	FAC	12-48	163,000	0.250	40,750
<i>Lobelia siphilitica</i>	great blue lobelia	6	FACW+	12-36	11,000,000	0.031	341,000
<i>Mimulus ringens</i>	monkey flower	6	OBL	12-24	45,000,000	0.015	675,000
<i>Monarda fistulosa</i>	bergamont	4	FACU	24-48	1,100,000	0.500	550,000
<i>Oligoneuron riddellii</i>	riddells goldenrod	7	OBL	12-48	1,900,000	0.125	237,500
<i>Oligoneuron rigidum</i>	stiff goldenrod	4	FACU-	36-72	650,000	0.125	81,250
<i>Physostegia virginiana</i>	false dragonhead	6	OBL	24-48	231,000	0.063	14,553
<i>Pycnanthemum virginianum</i>	common mountain mint	5	FACW+	12-36	4,500,000	0.063	283,500
<i>Rudbeckia pinnata</i>	yellow coneflower	4	UPL	36-60	510,000	0.250	127,500
<i>Rudbeckia hirta</i>	black-eyed susan	1	FACU	12-24	1,500,000	0.500	750,000
<i>Symphotrichum laeve</i>	smooth blue aster	9	UPL	24-42	1,100,000	0.063	69,300
<i>Symphotrichum novae-angliae</i>	new england aster	4	FACW	36-60	1,400,000	0.063	88,200
<i>Verbena hastata</i>	blue vervain	4	FACW+	24-72	1,800,000	0.500	900,000
<i>Veronicastrum virginicum</i>	culversroot	7	FAC	24-48	14,000,000	0.015	210,000
Forbs total					88,258,000	3.000	4,616,103
Cover Crop							
<i>Avena sativa</i>	oats	*	UPL	24-36	15,000	32.000	480,000
<i>Lolium multiflorum</i>	annual rye	*	UPL	24-36	227,000	5.000	1,135,000
Cover Crop total					242,000	37.000	1,615,000
Total lbs per acre							50.000

Native Slope Mix - Low Profile Mesic Prairie

scientific name	common name	C	W	height (in)	seeds/lbs	lbs/acre	% by count
Grasses							
<i>Bouteloua curtipendula</i>	side oats gramma	8	UPL	18-36	105,000	3.000	315,000
<i>Carex bicknellii</i>	bicknells oval sedge	10	UPL	24-36	445,000	0.250	111,250
<i>Carex brevior</i>	shorter sedge	4	FACU	12-36	430,000	0.125	53,750
<i>Carex molesta</i>	troublesome sedge	2	FAC+	24-48	580,000	0.125	72,500
<i>Elymus canadensis</i>	canada wild rye	4	FAC-	24-48	120,000	1.000	120,000
<i>Panicum virgatum</i>	prairie switch grass	5	FAC+	24-48	317,000	0.500	158,500
<i>Schizachyrium scoparium</i>	little bluestem	5	FACU+	30-72	250,000	3.000	750,000
<i>Sporobolus heterolepis</i>	prairie dropseed	10	FACU-	24-36	230,000	1.000	230,000
Grasses total					2,477,000	9.000	1,811,000
Forbs							
<i>Asclepias tuberosa</i>	butterfly weed	7	UPL	18-24	88,000	0.125	11,000
<i>Chamaecrista fasciculata</i>	partridge pea	5	FACU-	12-24	55,000	0.125	6,875
<i>Coreopsis lanceolata</i>	lanceleaf coreopsis	5	FACU	12-36	190,000	0.250	47,500
<i>Dalea purpurea</i>	purple prairie clover	9	UPL	18-30	300,000	0.250	75,000
<i>Echinacea pallida</i>	pale purple coneflower	8	UPL	24-36	100,000	2.500	25,000
<i>Echinacea purpurea</i>	purple coneflower	3	UPL	24-48	115,000	1.000	115,000
<i>Eryngium yuccifolium</i>	rattlesnake master	9	FAC+	24-60	142,000	0.250	35,500
<i>Liatris spicata</i>	spike blazing star	6	FAC	12-48	163,000	0.125	20,375
<i>Monarda fistulosa</i>	bergamont	4	FACU-	24-48	1,100,000	0.250	275,000
<i>Oligoneuron rigidum</i>	stiff goldenrod	4	FACU-	36-72	650,000	0.125	81,250
<i>Penstemon digitalis</i>	foxglove beardtounge	4	FAC-	12-30	1,800,000	0.125	225,000
<i>Rudbeckia hirta</i>	black-eyed susan	1	FACU	12-24	1,500,000	0.500	750,000
<i>Rudbeckia subtomentosa</i>	sweet coneflower	9	FACU+	24-48	740,000	0.125	92,500
<i>Symphotrichum laeve</i>	smooth blue aster	9	UPL	24-42	1,100,000	0.125	137,500
<i>Symphotrichum novae-angliae</i>	new england aster	4	FACW	36-60	1,400,000	0.125	175,000
<i>Tradescantia ohioensis</i>	ohio spiderwort	2	FACU+	18-30	146,000	0.125	18,250
<i>Verbena stricta</i>	hoary vervain	4	UPL	24-72	530,000	0.125	66,250
Forbs total					10,119,000	4.000	2,157,000
Cover Crop							
<i>Avena sativa</i>	oats	*	UPL	24-36	15,000	32.000	480,000
<i>Lolium multiflorum</i>	annual rye	*	UPL	24-36	227,000	5.000	1,135,000
Cover Crop total					242,000	37.000	1,615,000
Total lbs per acre							50.000



- PLANTING NOTES**
- Seed limit line is approximate. Seed to limits of grading and disturbance. Contractor is responsible for restoration above all utility runs. Contractor is also responsible for restoration of any unauthorized disruption outside of designated construction area.
 - Contractor responsible for erosion control in all seeded areas.
 - Tree mulch rings in turf areas are 5 foot diameter, typical. Contractor shall provide a mulch ring around all existing trees within the limit of work. Remove all existing grass from area to be mulched and provide a typical v-trench edge.
 - Bedlines are to be spade cut to a minimum depth of 3 inches unless otherwise shown on the plans. Curved bedlines are to be smooth and not segmented.
 - Do not locate plants within 10' of utility structures, or within 5' horizontally of underground utility lines unless otherwise shown on the plans. Consult with Landscape Architect if these conditions exist.
 - Plants and other materials are quantified and summarized for the convenience of the Owner and jurisdictional agencies only. Confirm and install sufficient quantities to complete the work as drawn and specified. No additional payments will be made for materials required to complete the work as drawn and specified.
 - Refer to specifications for additional conditions, standards and notes.

- PLANTING LEGEND**
- Seed Limit Line
 - Turf Seed and Blanket over 6 Inches of Topsoil in areas that were not previously-vegetated. Topsoil to be salvaged and reused as feasible on site.
 - Native Slope Mix (See Details for Subgrade Preparation)
 - Basin Bottom Mix (See Details for Subgrade Preparation)
 - Native Planting Area (See Details for Subgrade Preparation)



22 E. Chicago Avenue
Suite 200A
Naperville, IL 60540
T 630.961.1787
hitchcockdesigngroup.com

PREPARED FOR
Lan-Oak Park District
2550 178th Street
Lansing, IL 60438

PROJECT
Bock Park Phase One
17500 Lorenz Avenue
Lansing, IL 60438

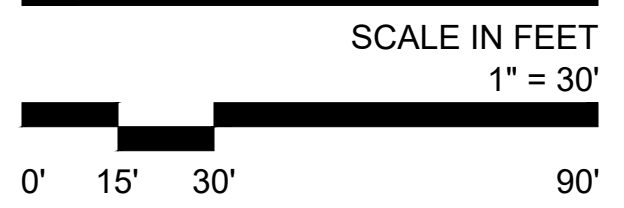
CONSULTANTS
Civil Engineering
Civiltech Engineering, Inc.
30 N. LaSalle St. Suite 3220
Chicago, IL 60602
T 312.726.5910

ISSUE FOR BID
JANUARY 8, 2025
REVISIONS

No	Date	Issue

CHECKED BY DNF DRAWN BY LKH

SHEET TITLE
Planting Plan

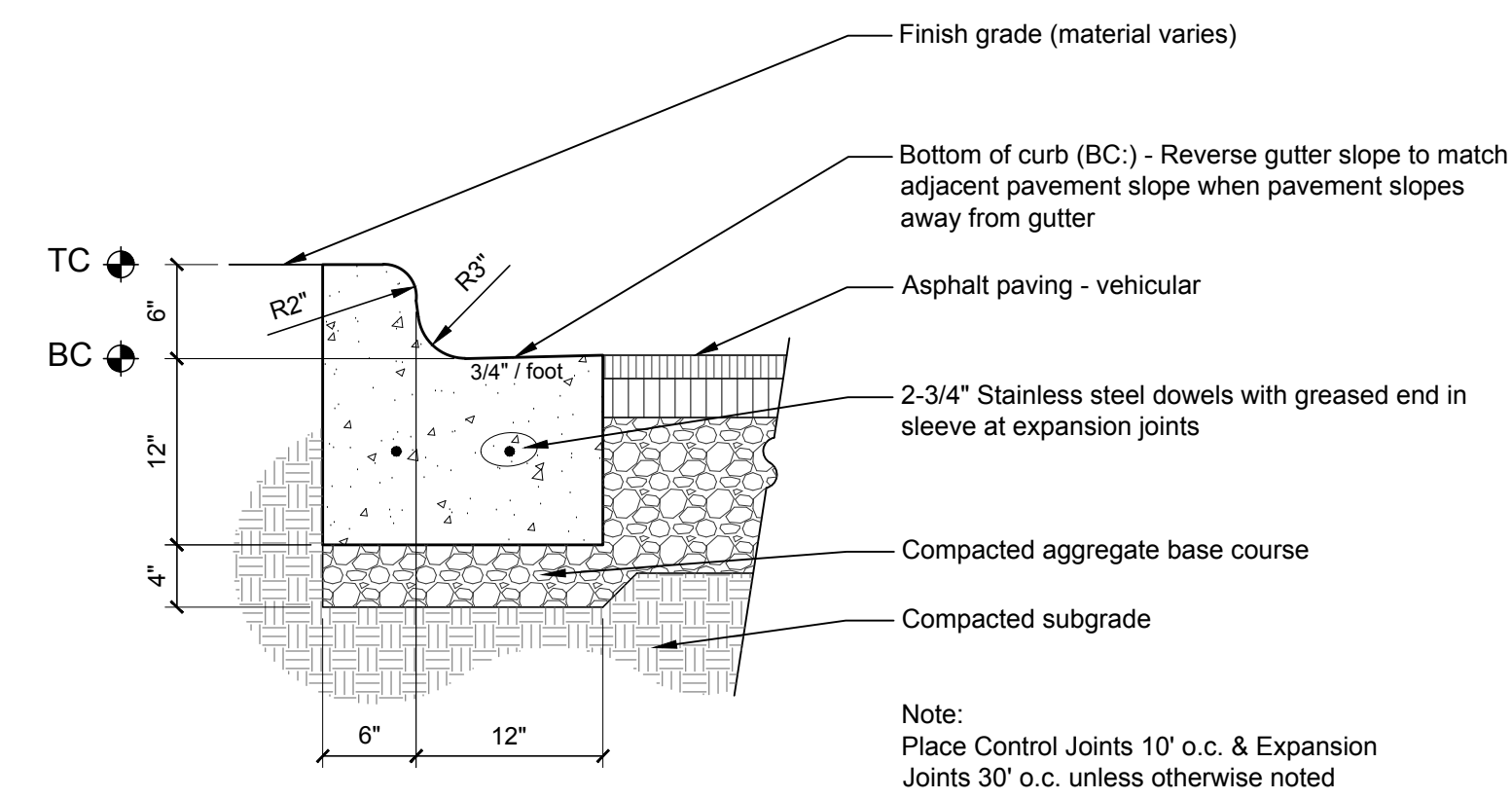


NORTH SHEET NUMBER

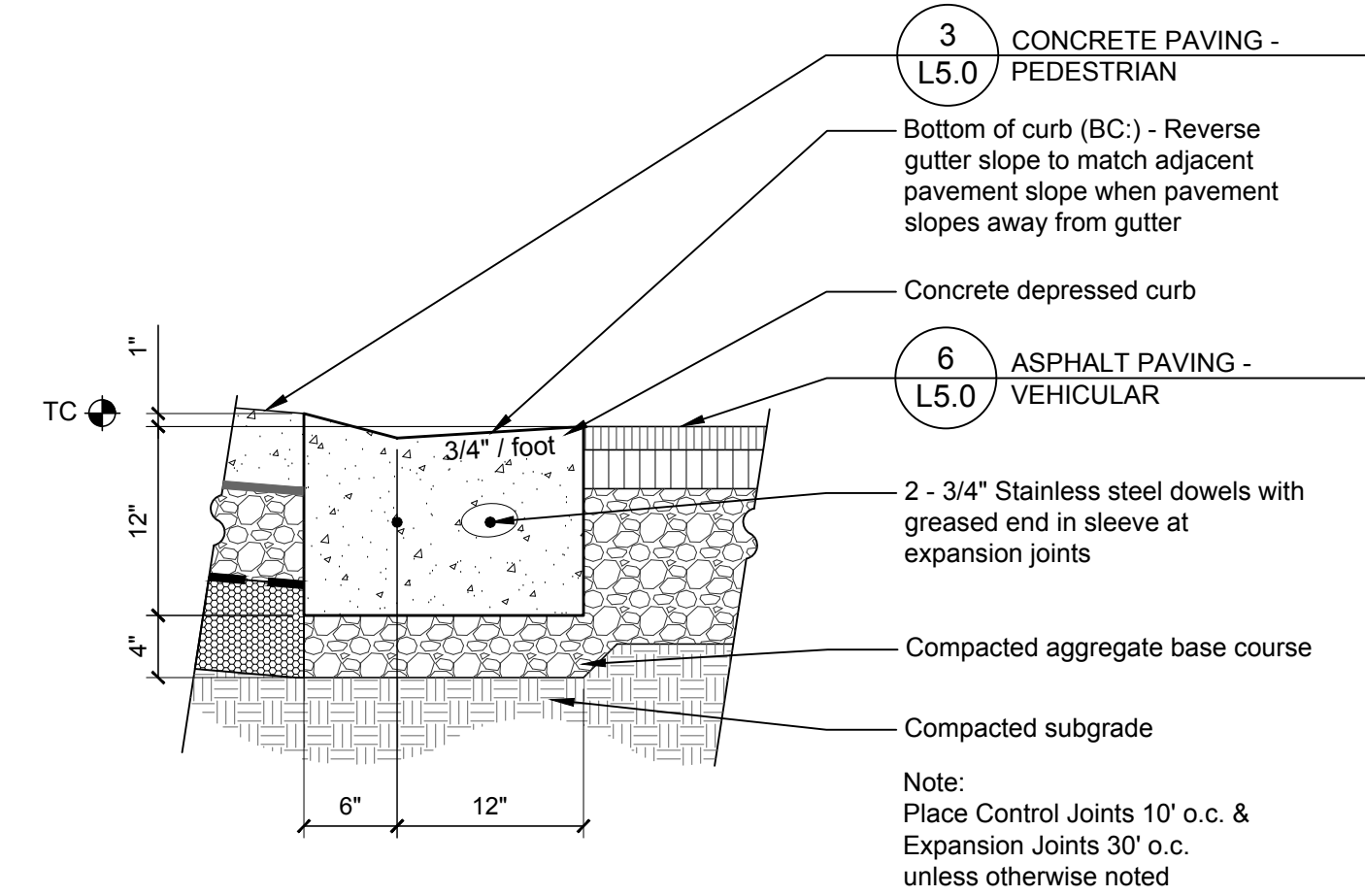
L4.0

©2025 Hitchcock Design Group

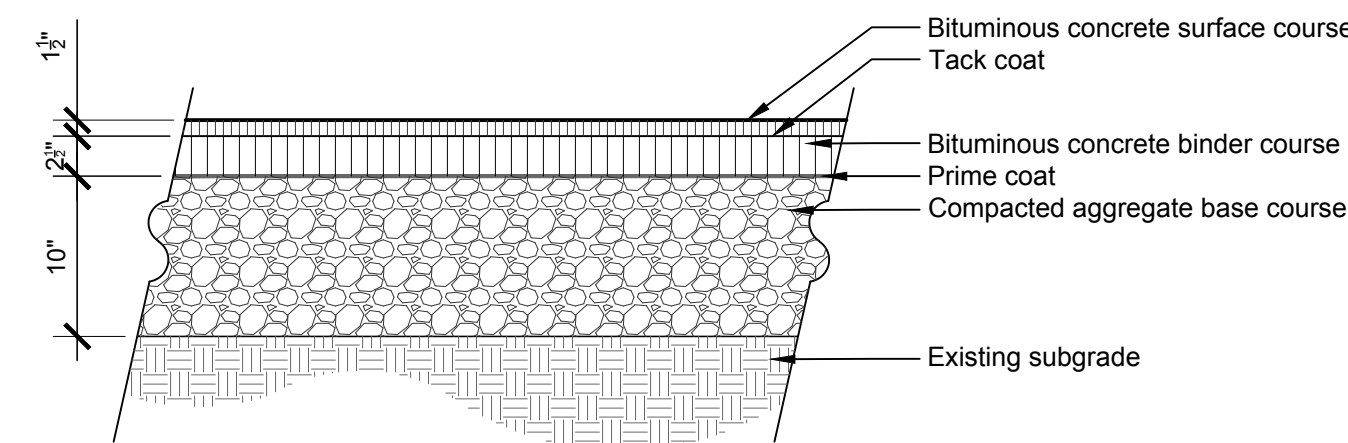
J:\Projects\lan-oak\lan-oak_park_phase_one\final\design\06\production\01_CAD\000_curren\l4.0 Planting Plan.dwg



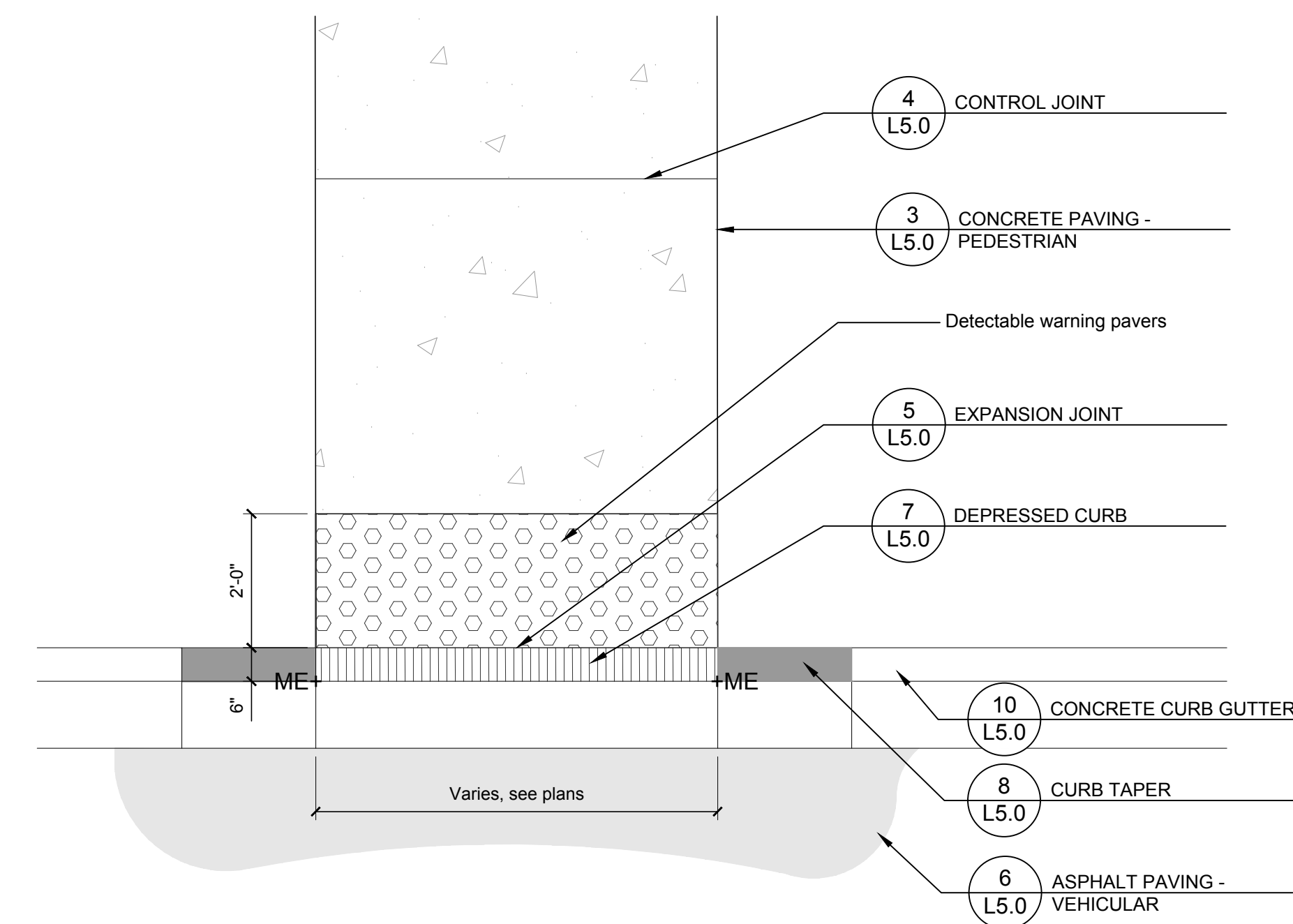
10 CONCRETE CURB AND GUTTER
1" = 1'-0"



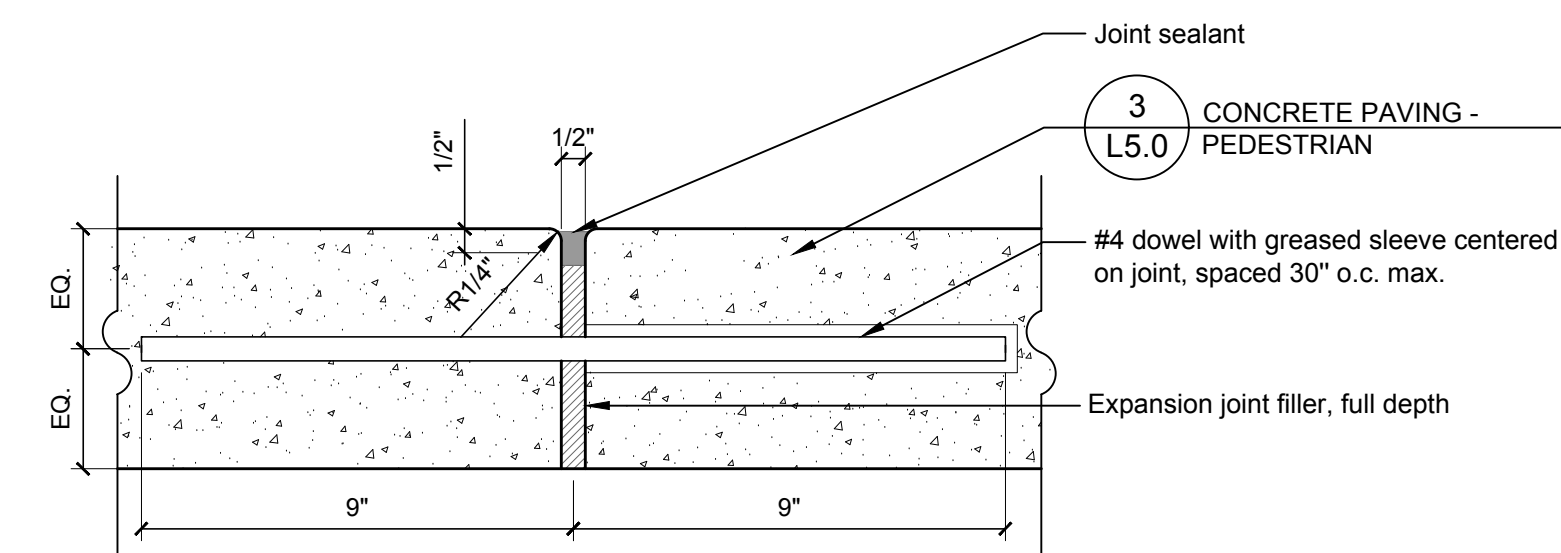
7 DEPRESSED CURB
1" = 1'-0"



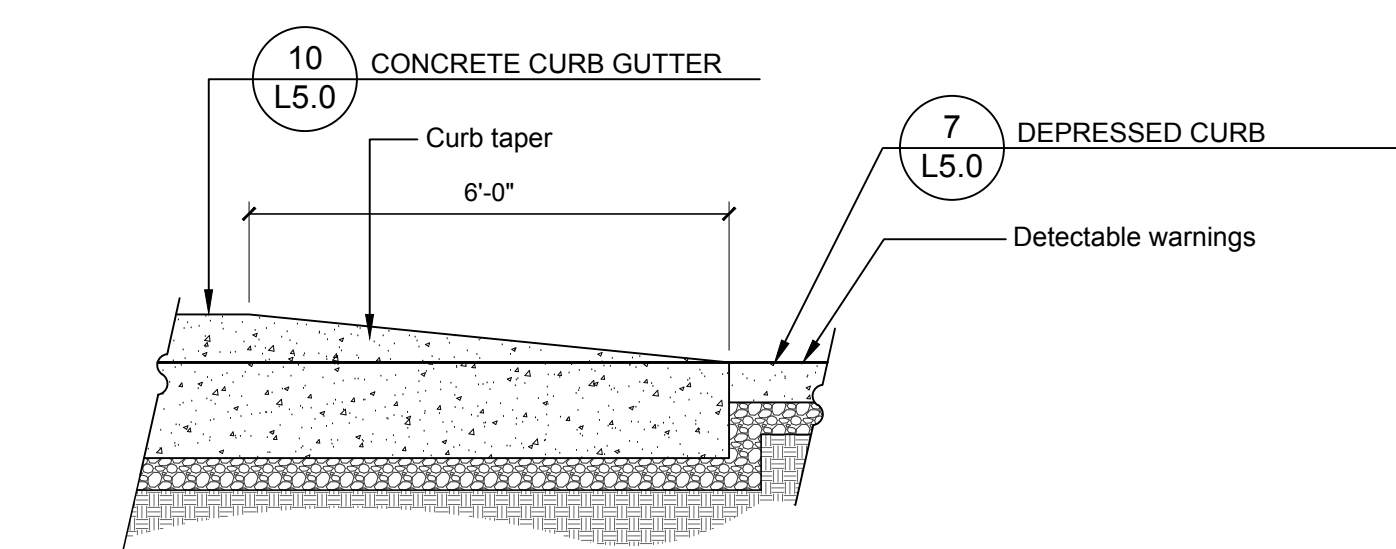
6 ASPHALT PAVING - VEHICULAR
1" = 1'-0"



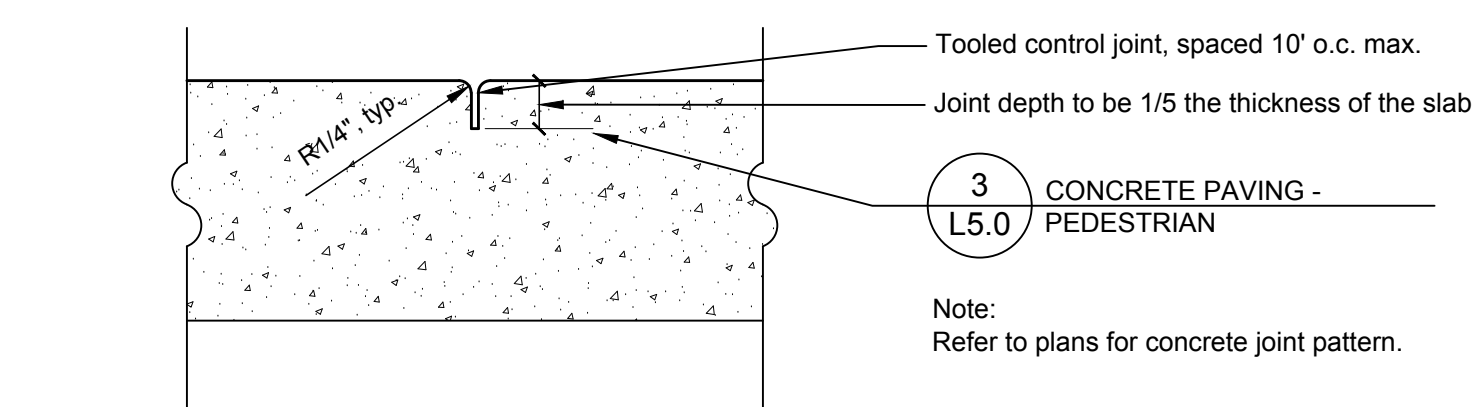
9 DETECTABLE WARNING
1/2" = 1'-0"



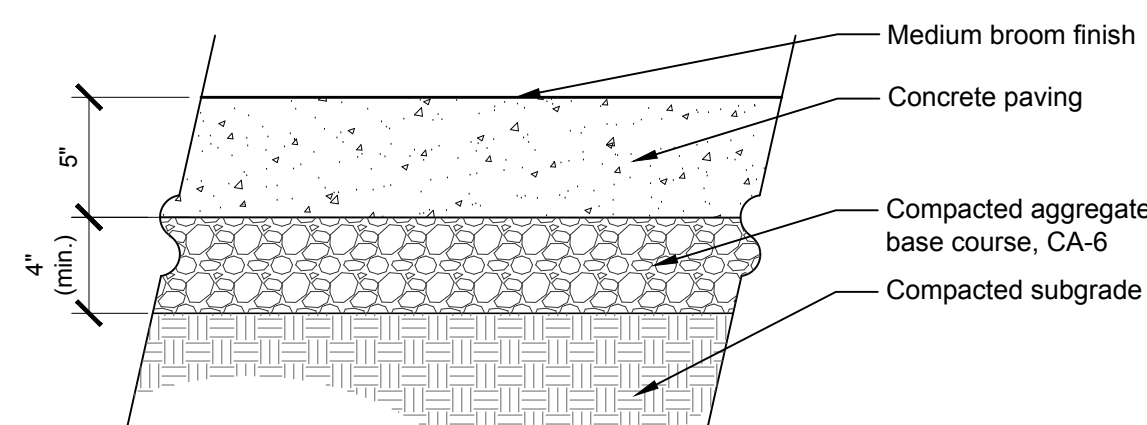
5 EXPANSION JOINT
3" = 1'-0"



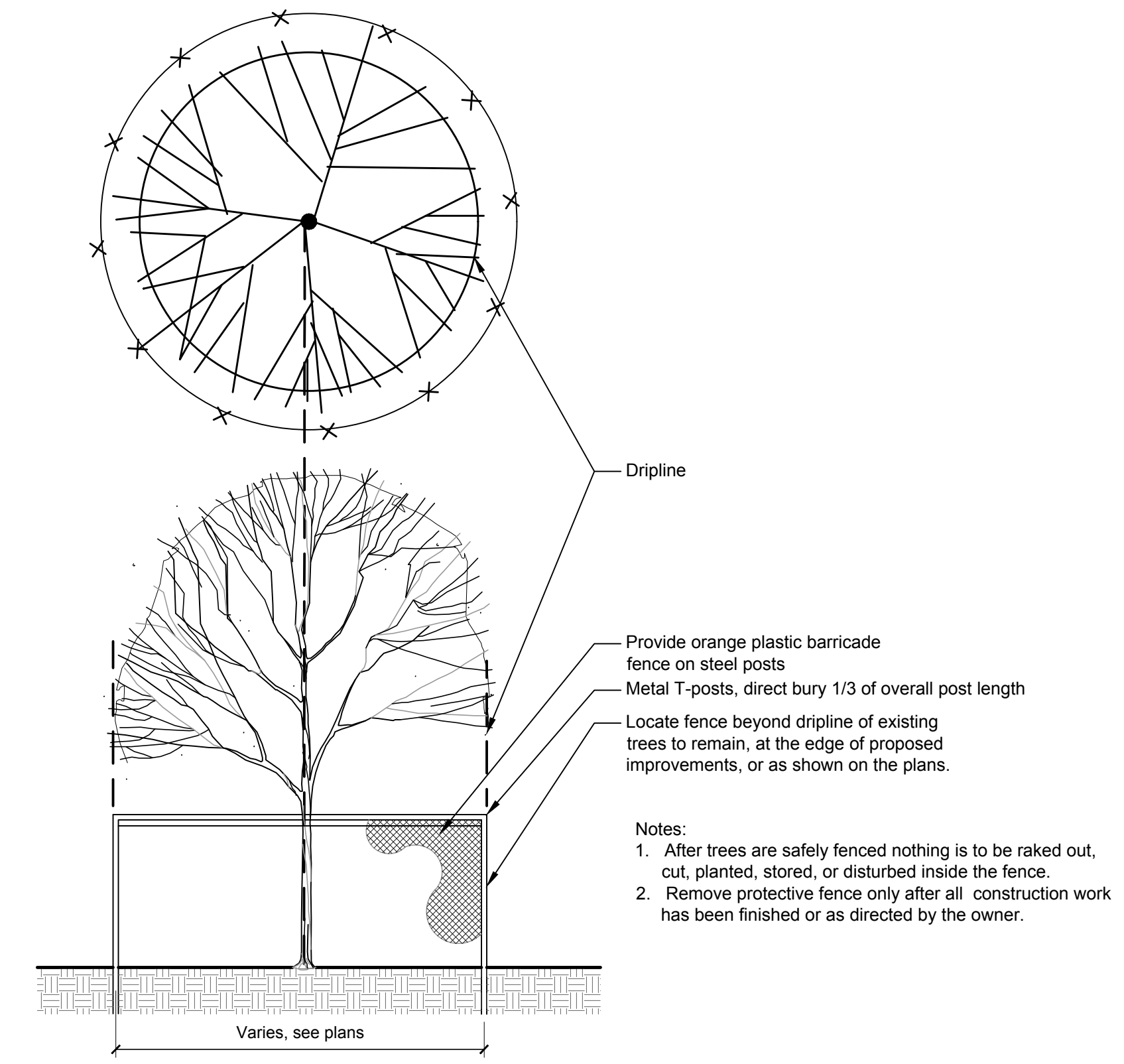
8 CURB TAPER
1/2" = 1'-0"



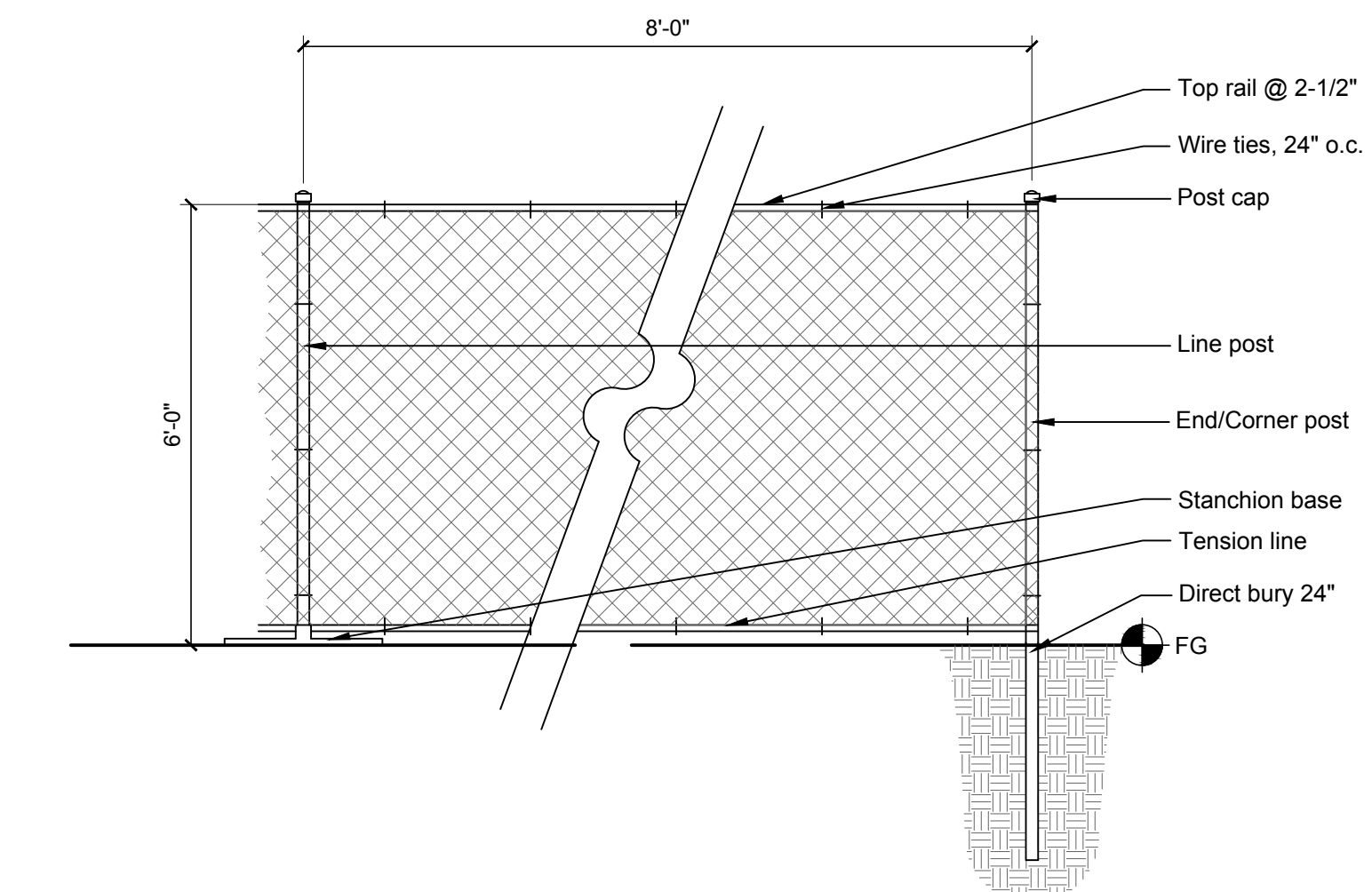
4 CONTROL JOINT
3" = 1'-0"



3 CONCRETE PAVING - PEDESTRIAN
1 1/2" = 1'-0"

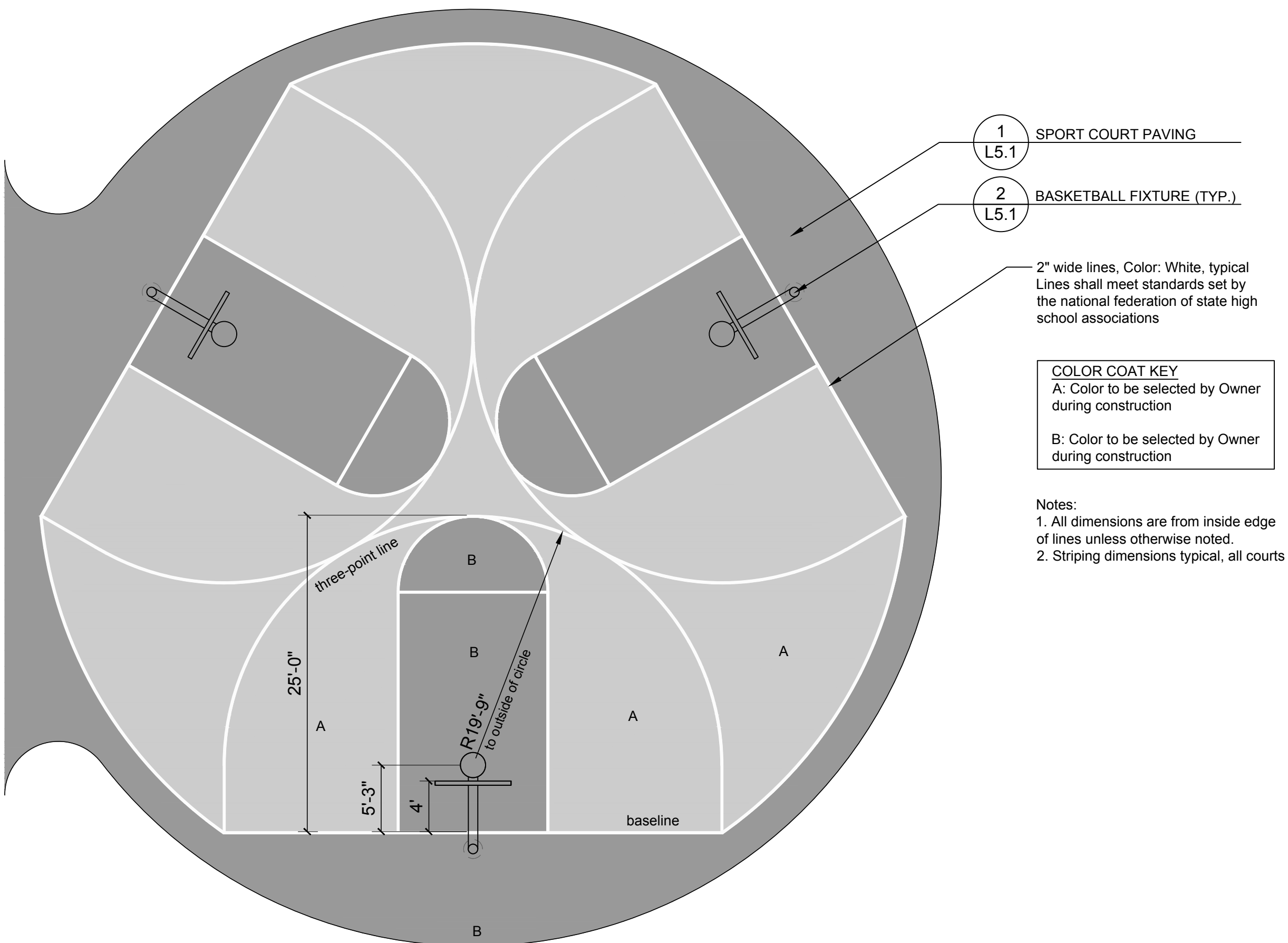


2 TREE PROTECTION FENCE
1/2" = 1'-0"



1 TEMPORARY CONSTRUCTION FENCE
1/2" = 1'-0"

No	Date	Issue



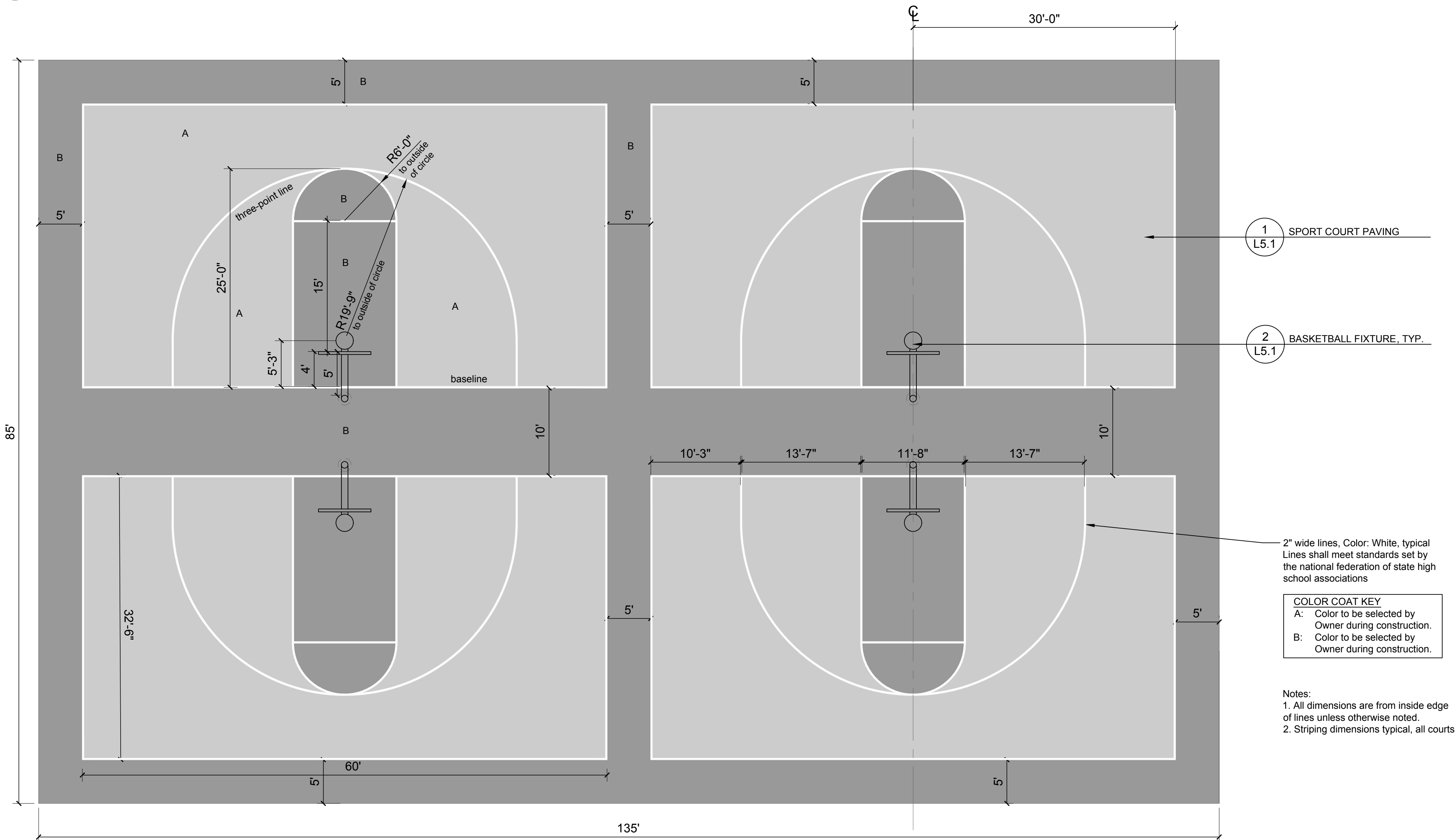
- 1 SPORT COURT PAVING
L5.1
- 2 BASKETBALL FIXTURE (TYP.)
L5.1

2" wide lines. Color: White, typical Lines shall meet standards set by the national federation of state high school associations

COLOR COAT KEY
A: Color to be selected by Owner during construction
B: Color to be selected by Owner during construction

Notes:
1. All dimensions are from inside edge of lines unless otherwise noted.
2. Striping dimensions typical, all courts

4 TRI BASKETBALL LAYOUT
1/8" = 1'-0"

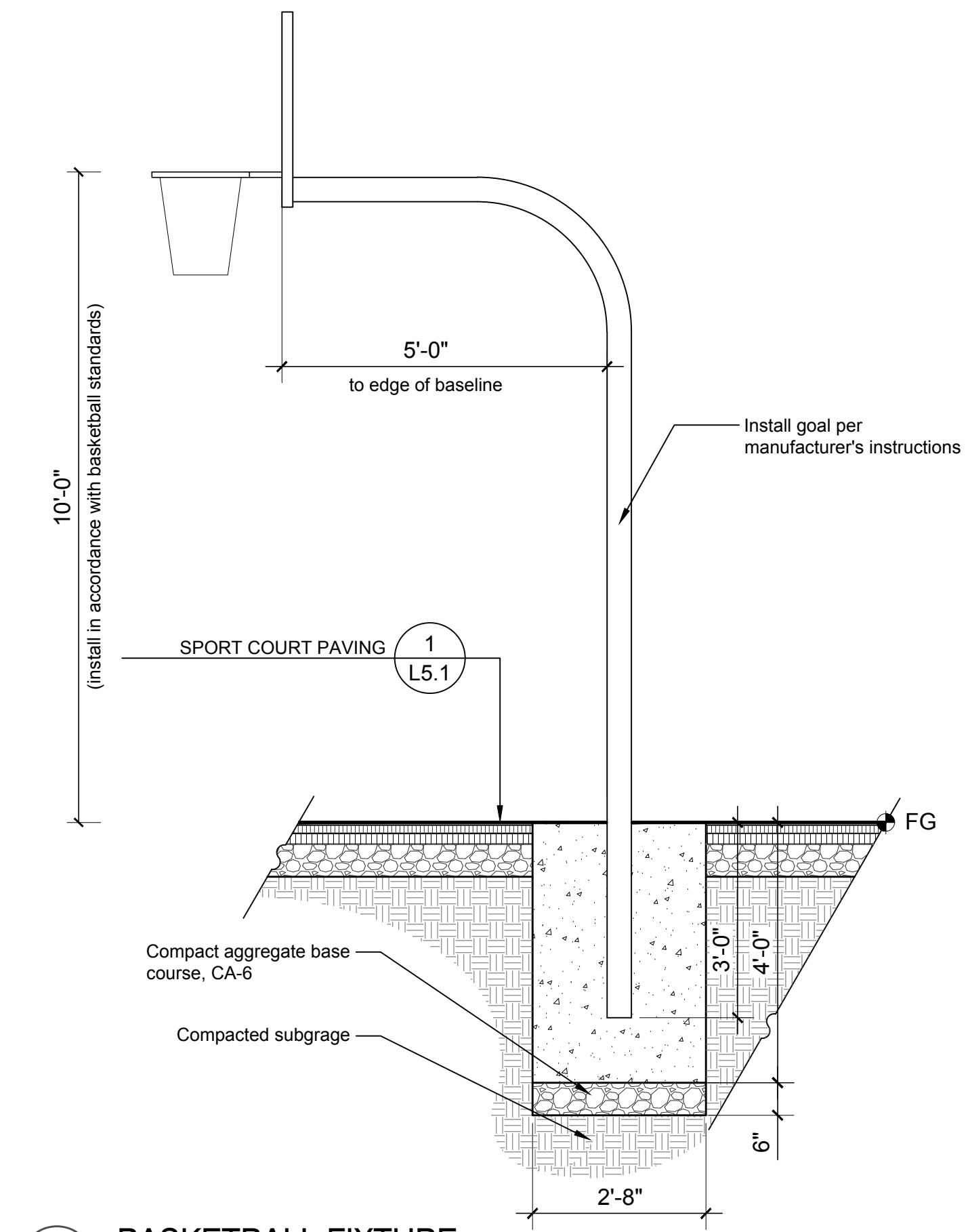


- 1 SPORT COURT PAVING
L5.1
- 2 BASKETBALL FIXTURE (TYP.)
L5.1

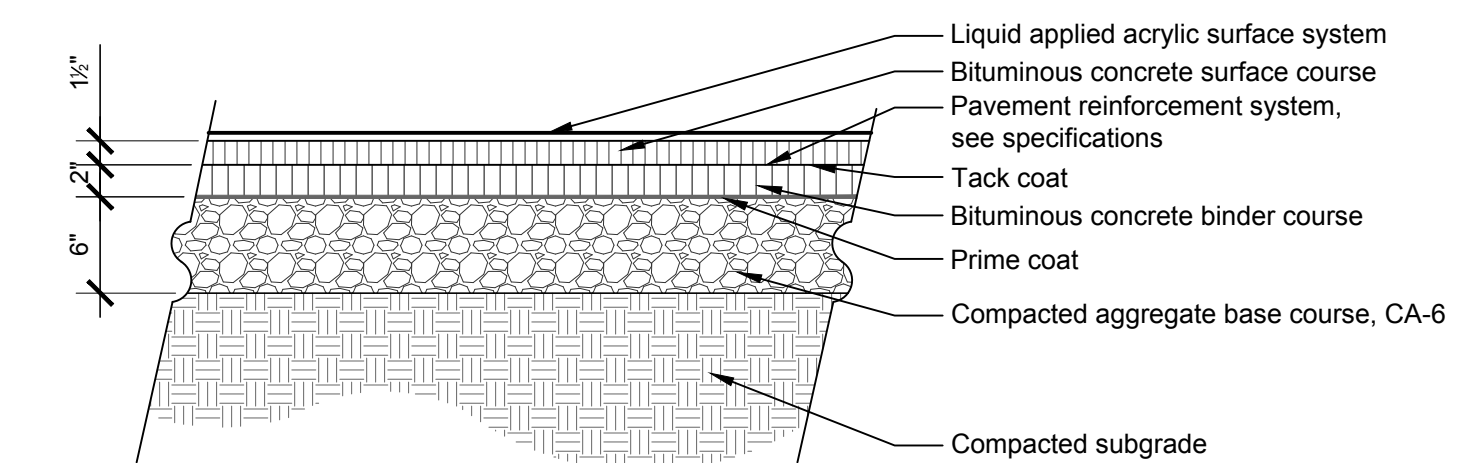
COLOR COAT KEY
A: Color to be selected by Owner during construction.
B: Color to be selected by Owner during construction.

Notes:
1. All dimensions are from inside edge of lines unless otherwise noted.
2. Striping dimensions typical, all courts

3 QUAD BASKETBALL LAYOUT
1/8" = 1'-0"



2 BASKETBALL FIXTURE
1/2" = 1'-0"



1 SPORT COURT PAVING
1" = 1'-0"

ISSUE FOR BID
JANUARY 8, 2025
REVISIONS

No	Date	Issue

CHECKED BY
DNF

DRAWN BY
LKH

SHEET TITLE
Details

SCALE IN FEET
as noted

SHEET NUMBER

L5.1

GENERAL NOTES

SHED DESIGN
THIS SHED HAS BEEN DESIGNED AS AN OPEN STRUCTURE. THE ADDITION OF ANY ENCLOSURE SUCH AS WALLS, INSECT MESH, OR SHADE SCREENS SHALL BE PROHIBITED AS INCREASED WIND FORCES MAY RESULT.

STEEL
STEEL PLATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36.
HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500, GRADE B (FY = 48 KSI).

WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY'S SPECIFICATIONS FOR THE MATERIAL BEING WELDED.
WELDING ELECTRODES SHALL BE E70XX.

STRUCTURAL STEEL COMPONENTS SHALL BE COATED WITH ANTI-GRAFFITI POLYESTER TOIC POWDER COAT FINISH MEETING AAMA 2904-02 SPECIFICATION.

ALUMINUM
EXTRUDED ALUMINUM RIDGE CAP SHALL BE FABRICATED FROM ALUMINUM ALLOY 6105-T5 AND SHALL CONFORM TO THE REQUIREMENTS SHOWN ON THE DRAWING.

EXTRUDED ALUMINUM GUTTER FASCIA AND FASCIA TRIM SHALL BE FABRICATED FROM ALUMINUM ALLOY 6105-T5 OR 6061-T6 AND SHALL CONFORM TO THE REQUIREMENTS SHOWN ON THE DRAWING.

ALUMINUM COMPONENTS SHALL BE COATED WITH ANTI-GRAFFITI POLYESTER POWDER COAT FINISH MEETING AAMA 2904-02 SPECIFICATION.

ROOF DECK
INTERLOCKING SEAL ALUMINUM ROOF DECK SHALL BE ROLL FORMED FROM ALUMINUM ALLOY 3004-H38 AND SHALL CONFORM TO THE DECK PROFILE SHOWN ON THE DRAWING.
ROOF DECK SHALL BE COATED WITH HEAT REFLECTIVE BASF ULTRA-COOL COATING OR APPROVED EQUAL.

FASTENERS
HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A325.

SCREWS ATTACHING TO STEEL SHALL BE 12-24 HEX WASHER HEAD #5 POINT SELF DRILLING SCREWS WITH BOND SEAL WASHER.

SCREWS ATTACHING TO ALUMINUM SHALL BE 8-18 HEX WASHER HEAD #2 POINT SELF DRILLING SCREWS.

HIGH STRENGTH BOLTS SHALL BE HOT DIP GALVANIZED. ALL SCREWS SHALL BE STAINLESS STEEL OR COATED WITH ZINC.

ALL BOLTS SHALL BE TIGHTENED TO A SNUG-TIGHT CONDITION AS DEFINED IN THE 2004 RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS.

SHOP FABRICATION AND FIELD ASSEMBLY
ALL STRUCTURAL STEEL AND ALUMINUM COMPONENTS SHALL BE SHOP FABRICATED SO THAT FIELD ASSEMBLY OF CONNECTIONS CAN BE PERFORMED USING ONLY BOLTING AND SCREW PLACEMENT.

ALL SHOP WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS.

ALL SHOP WELDS SHALL BE IN STRICT ACCORDANCE WITH THE STRUCTURAL WELDING CODE AWS D1.1 OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS. ALL STRUCTURAL WELDS SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF "PRE-QUALIFIED" WELDED JOINTS. ALL WELDING SHALL CONFORM TO AWS A5.18 - E70XX-SERIES E70XX ELECTRODES - LOW HYDROGEN.

FIELD WELDING SHALL NOT BE REQUIRED.

SPECIAL INSPECTIONS
THIS SHED IS CLASSIFIED AS AN ACCESSORY AND/OR MISCELLANEOUS STRUCTURE AND SHALL BE CONSIDERED CONSTRUCTION OF A MINOR NATURE. THEREFORE SPECIAL INSPECTIONS SHALL NOT BE REQUIRED PER IBC 1704.2.

DESIGN PARAMETERS

BUILDING CODES:

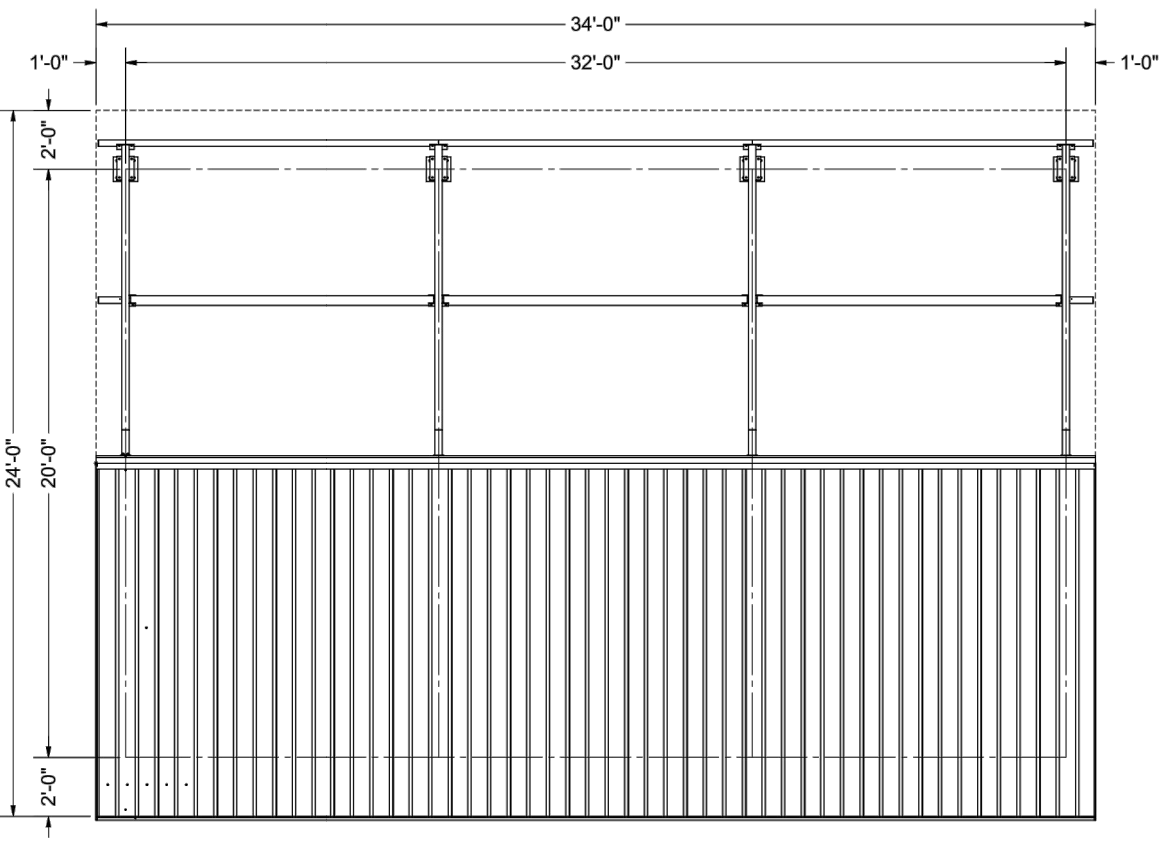
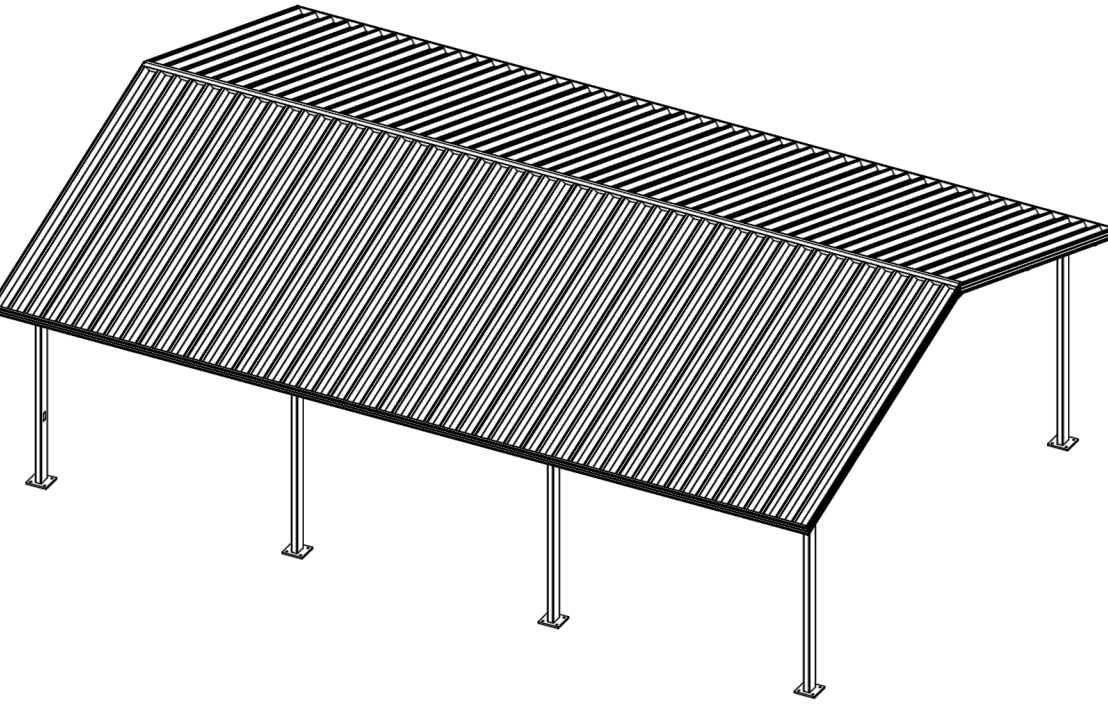
2015 IBC
ASCE 7-10
ROOF DEAD LOAD: 5 PSF
ROOF LIVE LOAD: 20 PSF
GROUND SNOW LOAD: 25 PSF
ROOF SNOW LOAD: 21 PSF
BASIC WIND SPEED: 115 MPH (3 SECOND GUST)
WIND EXPOSURE: C
SOIL BEARING STRENGTH: 1500 PSF
SOIL SITE CLASS: D (ASSUMED)
SEISMIC SS: 0.137
SEISMIC S1: 0.065
SEISMIC SDS: 0.146
SEISMIC SD1: 0.104
SEISMIC DESIGN CATEGORY: B
TRANSVERSE SEISMIC RESISTING SYSTEM: STEEL ORDINARY MOMENT FRAME
TRANSVERSE RESPONSE MODIFICATION FACTOR: 3.50
TRANSVERSE SEISMIC RESPONSE COEFFICIENT: 0.042
LONGITUDINAL SEISMIC RESISTING SYSTEM: STEEL ORDINARY CANTILEVER COLUMN
LONGITUDINAL RESPONSE MODIFICATION FACTOR: 1.25
LONGITUDINAL SEISMIC RESPONSE COEFFICIENT: 0.117
SEISMIC ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

BUILDING DATA

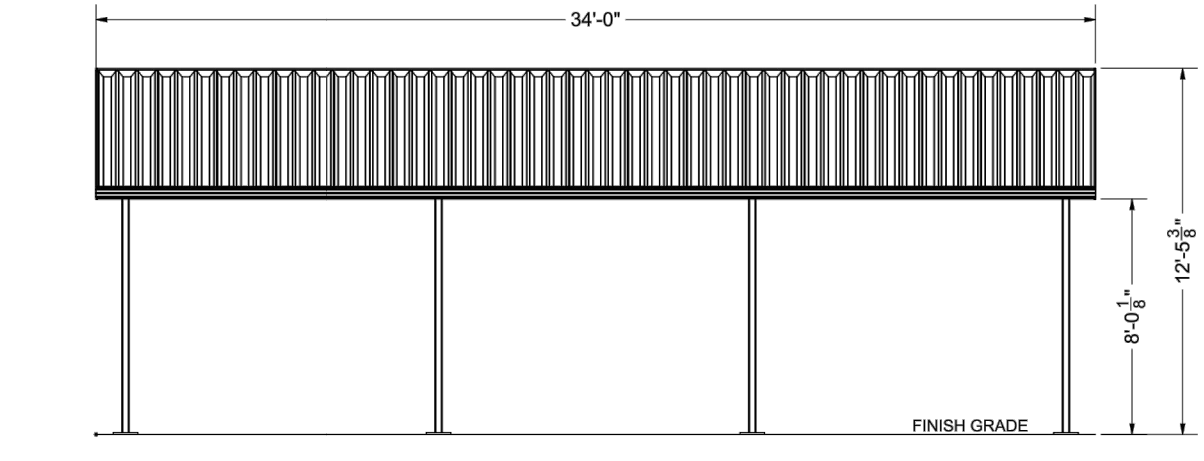
OCCUPANCY CLASSIFICATION: U (ACCESSORY / MISC.)
RISK CATEGORY: II
CONSTRUCTION TYPE: II-B
FLOOR AREA: 816 SQ. FT.
OCCUPANCY LOAD: 7 SQ. FT. / OCCUPANT = 116 OCCUPANTS

CONTENTS

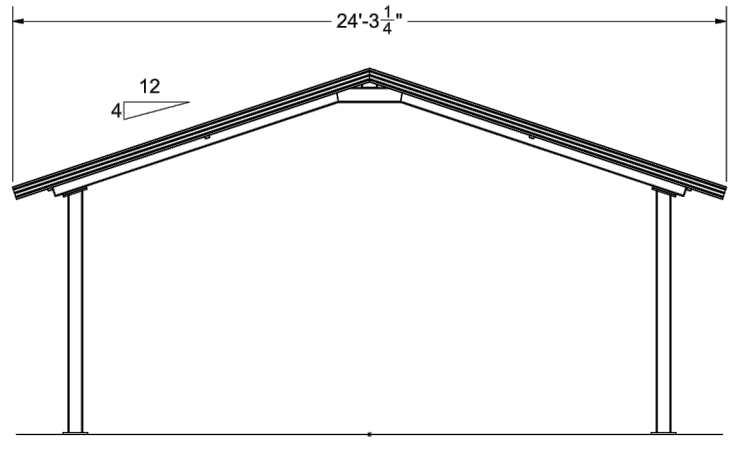
- C1 COVER SHEET
S1 PLAN AND ELEVATIONS
S2 FOUNDATION PLAN AND SECTION
S3 STRUCTURAL FRAMING
S4 FRAMING CONNECTION DETAILS
S5 ROOFING DETAILS
D1-D12 STEEL FABRICATION DETAILS



ROOF PLAN
Scale: 1/4" = 1'-0"



FRONT ELEVATION
Scale: 1/4" = 1'-0"



SIDE ELEVATION
Scale: 1/4" = 1'-0"

Table with columns: ENGINEER, MANUFACTURER, PROJECT / LOCATION, MODEL, DWG. NO., DRAWN BY, DRAWN DATE, SHEET. Includes contact info for AMMTEC CONSULTANTS, LLC and AMERICANA OUTDOORS.

Table with columns: ENGINEER, MANUFACTURER, PROJECT / LOCATION, MODEL, DWG. NO., DRAWN BY, DRAWN DATE, SHEET. Includes contact info for AMMTEC CONSULTANTS, LLC and AMERICANA OUTDOORS.

NOTES

FOUNDATION
THE FOUNDATION SHALL REST ON SOUND SOIL THAT IS FREE OF ORGANIC AND DELETERIOUS MATERIALS AND CAPABLE OF SUPPORTING 1500 PSF VERTICAL BEARING PRESSURE AND 100 PSF/FT LATERAL BEARING PRESSURE.

FOUNDATION DESIGN SHOWN IS BASED ON THE MINIMUM PRESUMPTIVE SOIL STRENGTHS FROM THE SPECIFIED BUILDING CODE. OWNER SHALL VERIFY ACTUAL SOIL CONDITIONS AT EACH JOB SITE AND ANY REQUIRED ADJUSTMENTS TO THE FOUNDATION DESIGN SHALL BE DESIGNED BY OTHERS.

IF NECESSARY, EXTEND DEPTH OF FOOTING TO MEET LOCAL FROST DEPTH REQUIREMENTS AND ADD TIES TO MEET THE SPACING REQUIREMENT STATED ON THE DRAWING.

CONCRETE
COMPRESSION STRENGTH OF ALL REINFORCED CONCRETE SHALL NOT BE LESS THAN 3500 PSI AT 28 DAYS.

REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF MINIMUM ASTM A615 GRADE 40 FOR #4 AND SMALLER BARS AND GRADE 60 FOR BARS LARGER THAN #4.

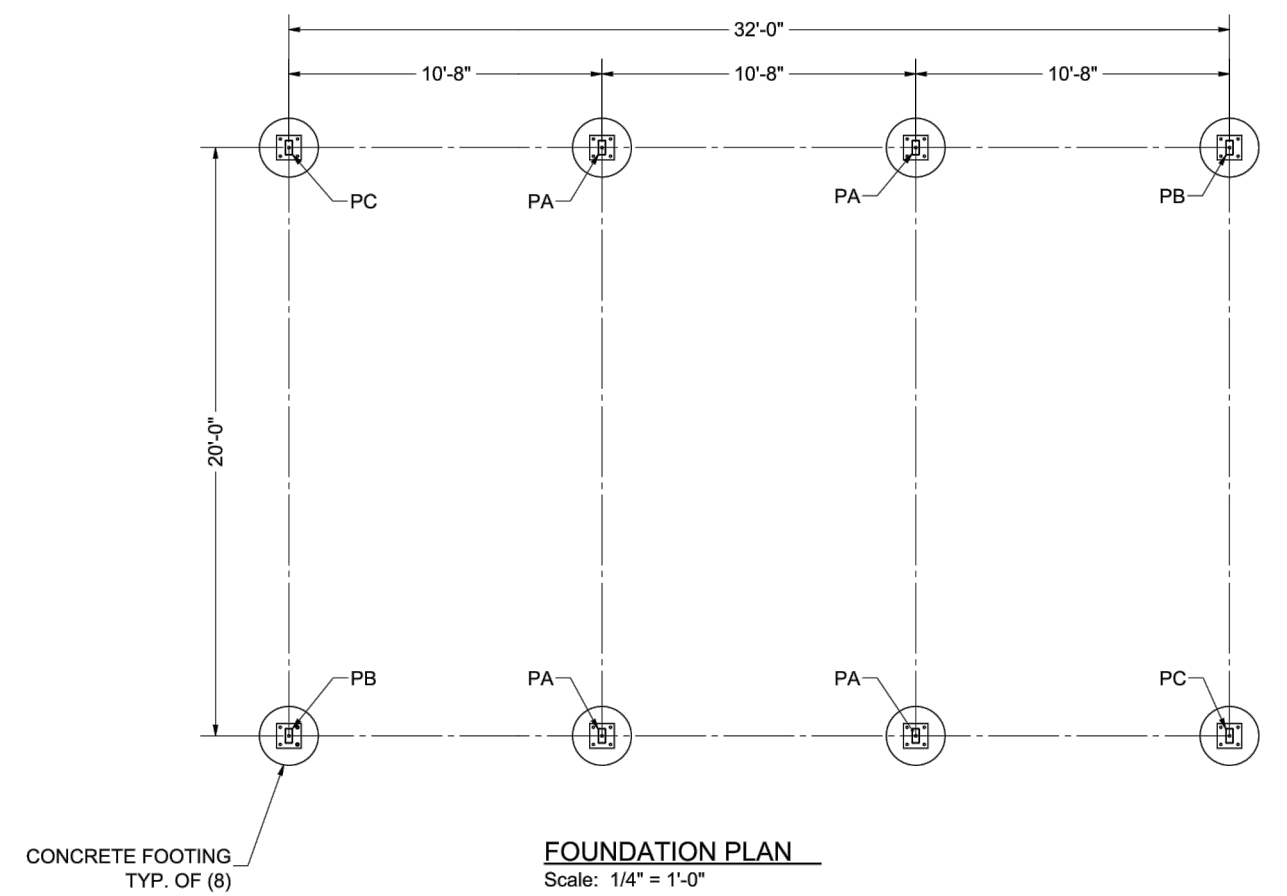
MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE 3" UNLESS NOTED OTHERWISE.

ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 MINIMUM, GALVANIZED ROD, HEADED OR WITH HEAVY HEX NUT TACKED TO ROD.

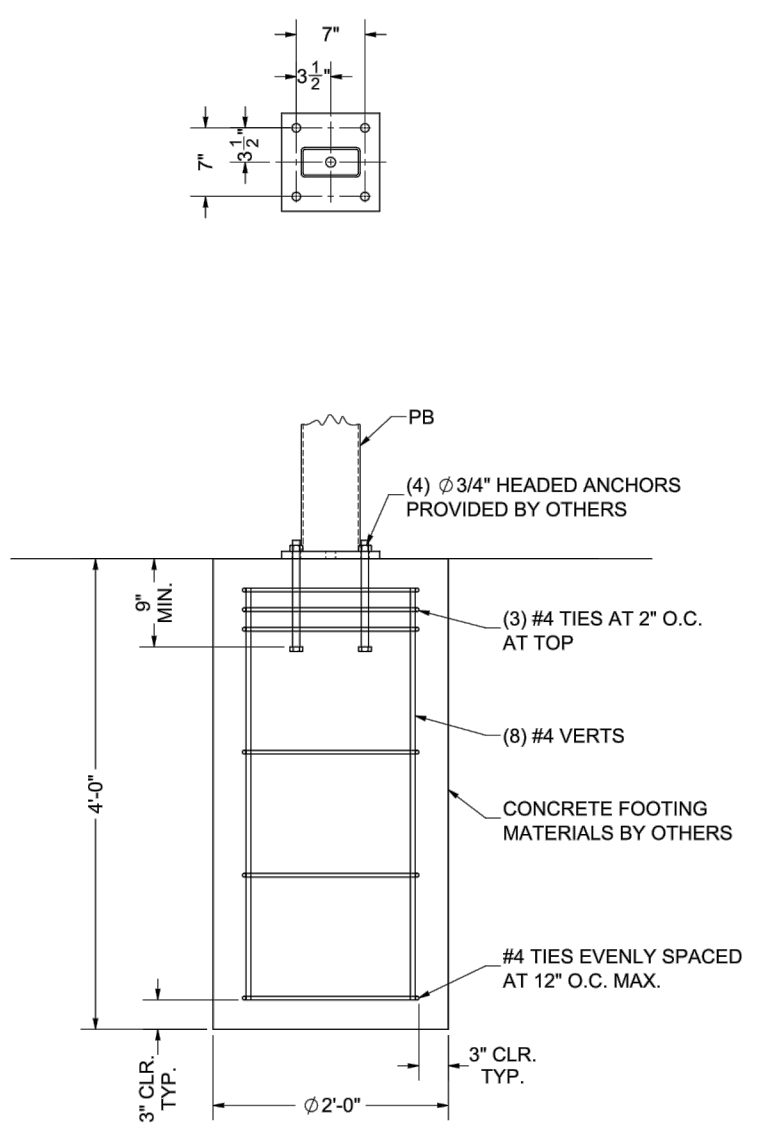
FOUNDATION REACTIONS (ASD MAX.)

AXIAL: 3.910 KIP
UPLIFT: 0.367 KIP
LATERAL: 0.898 KIP
MOMENT: 0.469 K-FT

NOTE: FOOTING DESIGNED BY OTHERS

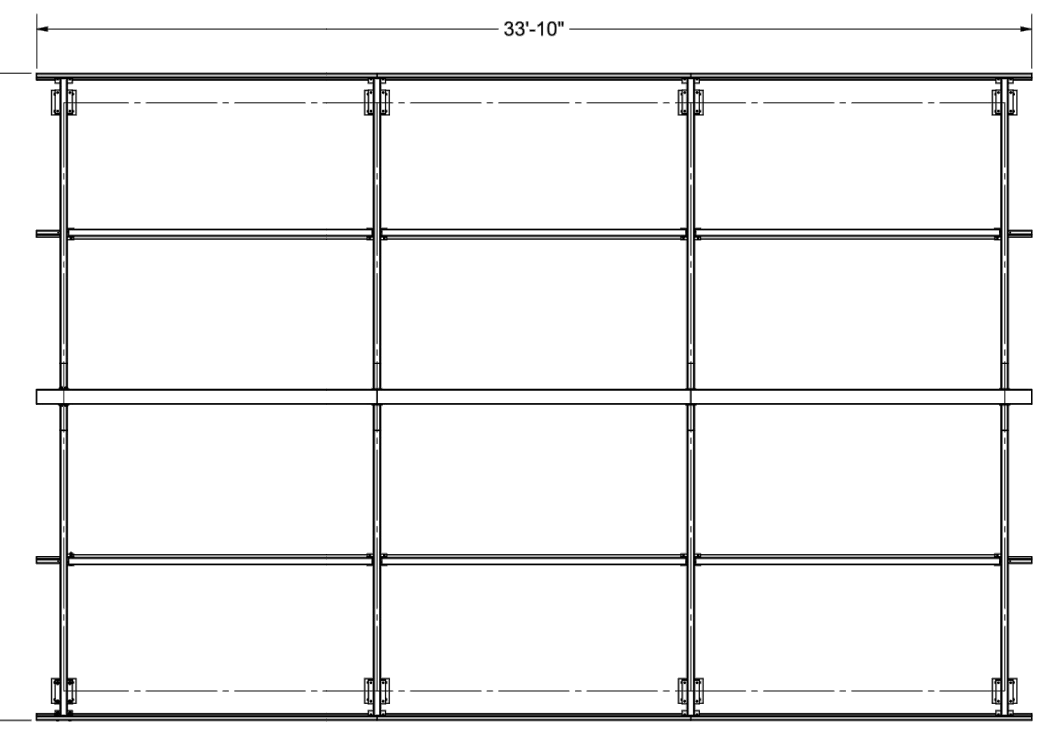


FOUNDATION PLAN
Scale: 1/4" = 1'-0"



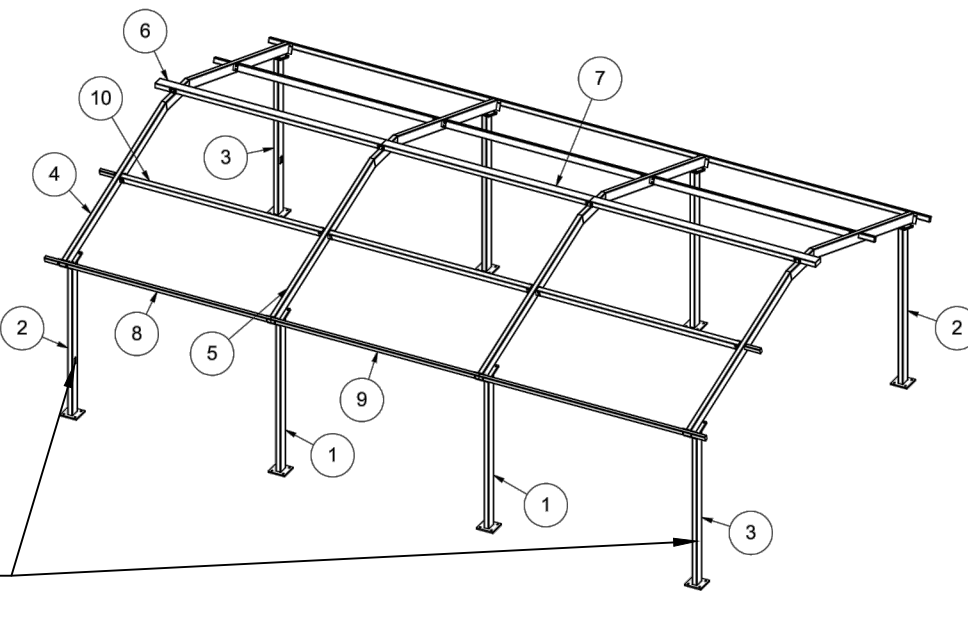
FOUNDATION SECTION
Scale: 1" = 1'-0"

Table with columns: ENGINEER, MANUFACTURER, PROJECT / LOCATION, MODEL, DWG. NO., DRAWN BY, DRAWN DATE, SHEET. Includes contact info for AMMTEC CONSULTANTS, LLC and AMERICANA OUTDOORS.

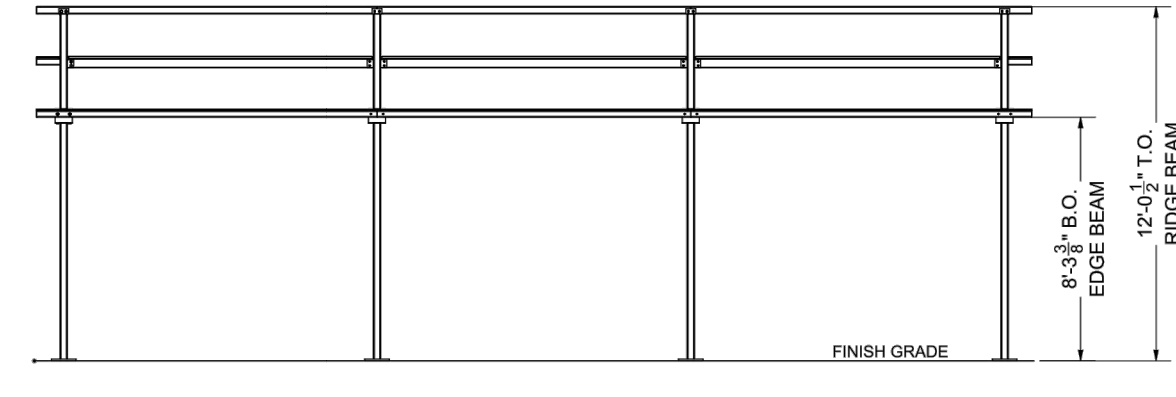


FRAME PLAN
Scale: 1/4" = 1'-0"

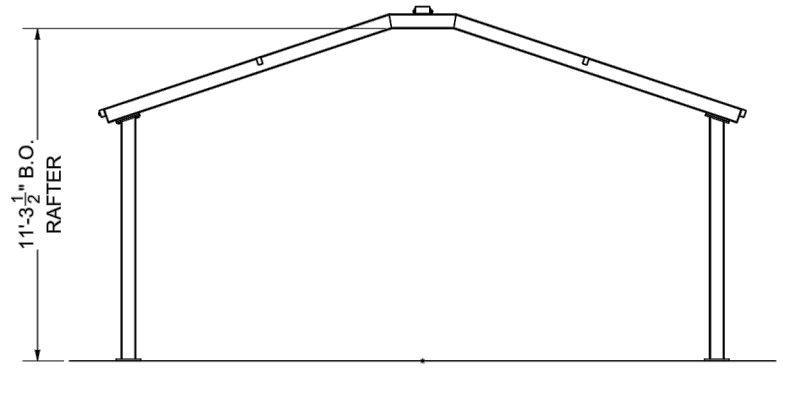
Table with columns: ITEM NO., QTY., PART NO., DESCRIPTION, MATERIAL, EST. WEIGHT (LBS). Lists materials like PA (POST), PB (POST), PC (POST), RA (RAFTER), RB (RAFTER), TA (RIDGE BEAM), TB (RIDGE BEAM), EA (EDGE BEAM), EB (EDGE BEAM), SA (PURLIN).



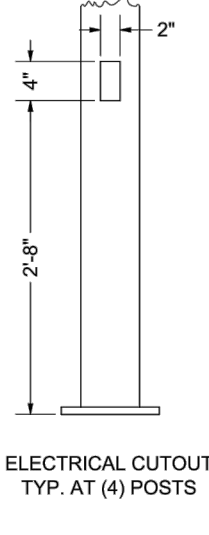
PROVIDE (4) ELECTRICAL CUTOUTS, 1 ON EACH CORNER POST



FRAME ELEVATION
Scale: 1/4" = 1'-0"



FRAME ELEVATION
Scale: 1/4" = 1'-0"



ELECTRICAL CUTOOUT
TYP. AT (4) POSTS

Table with columns: ENGINEER, MANUFACTURER, PROJECT / LOCATION, MODEL, DWG. NO., DRAWN BY, DRAWN DATE, SHEET. Includes contact info for AMMTEC CONSULTANTS, LLC and AMERICANA OUTDOORS.



22 E. Chicago Avenue
Suite 200A
Naperville, IL 60540
T 630.961.1787
hitchcockdesigngroup.com

PREPARED FOR
Lan-Oak Park
District

2550 178th Street
Lansing, IL 60438

PROJECT
Bock Park
Phase One
17500 Lorenz Avenue
Lansing, IL 60438

CONSULTANTS
Civil Engineering
Civiltech Engineering, Inc.
30 N. LaSalle St. Suite 3220
Chicago, IL 60602
T 312.726.5910

ISSUE FOR BID
JANUARY 8, 2025
REVISIONS

Table with columns: No, Date, Issue. Revision table.

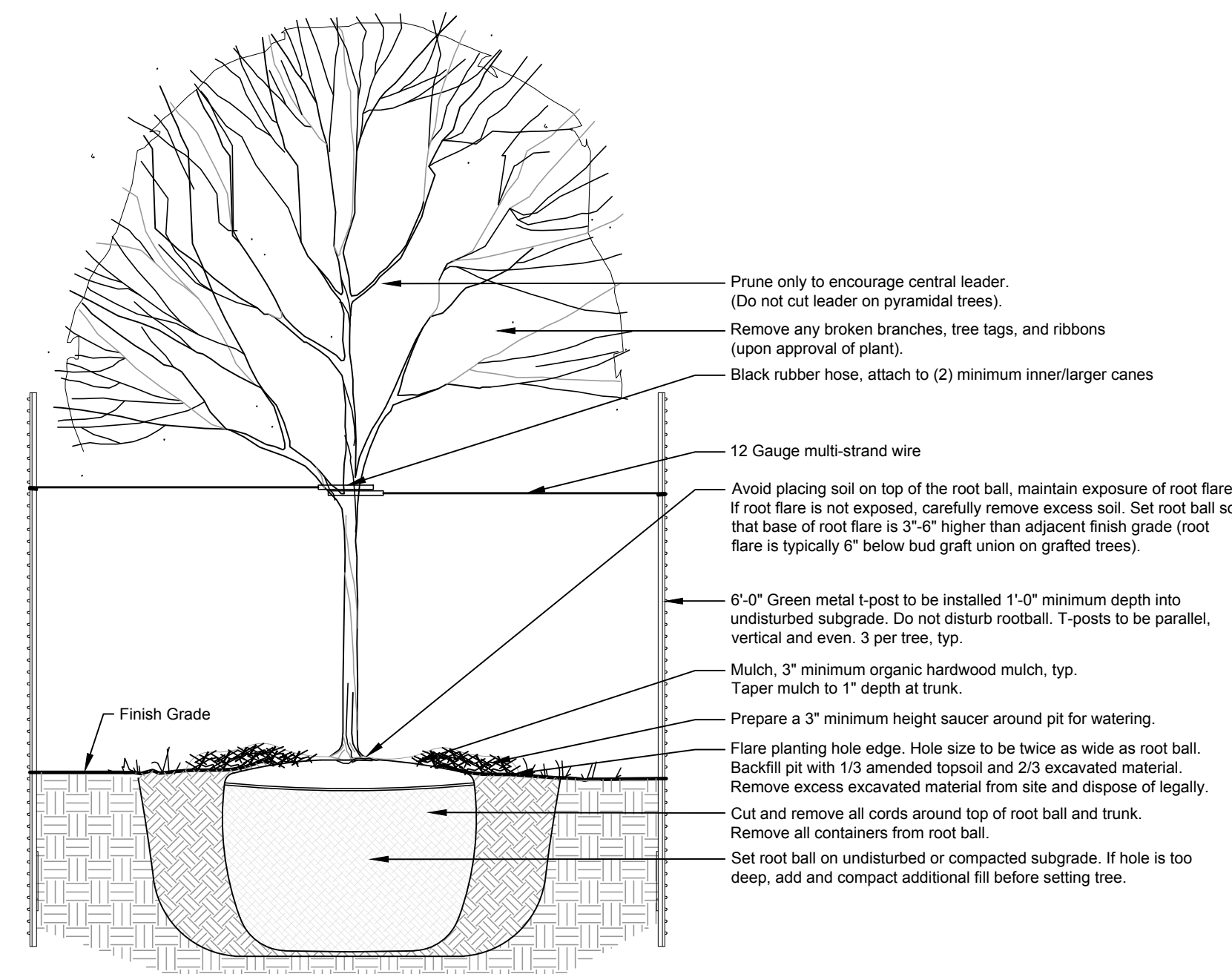
CHECKED BY: DNF DRAWN BY: LKH

SHEET TITLE
Details

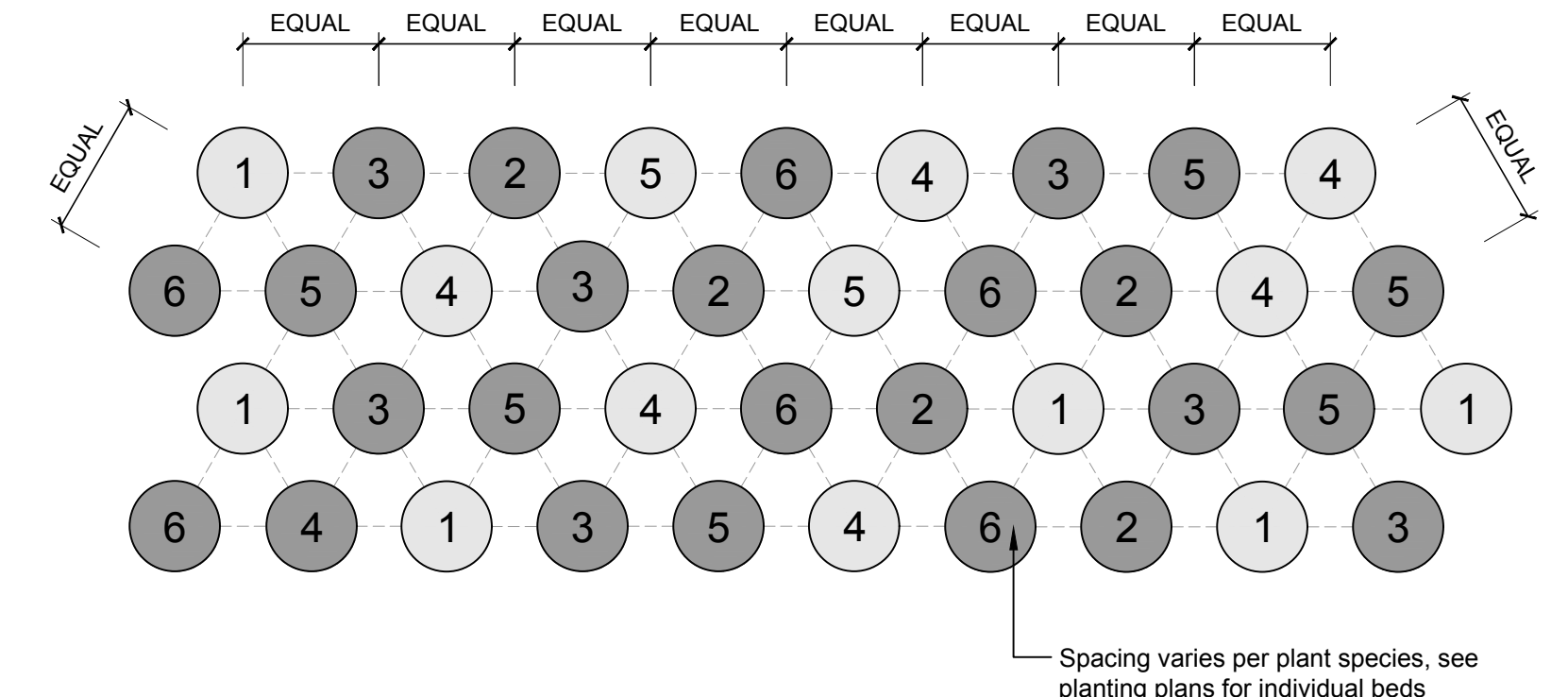
SCALE IN FEET
as noted

SHEET NUMBER

L5.2
©2025 Hitchcock Design Group

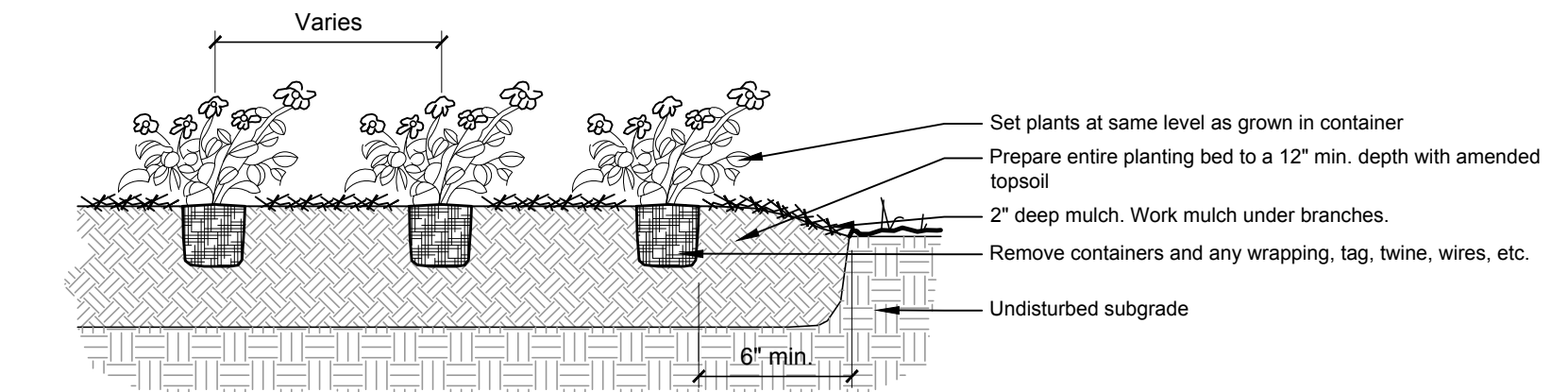


5 SHADE TREE
1/2" = 1'-0"



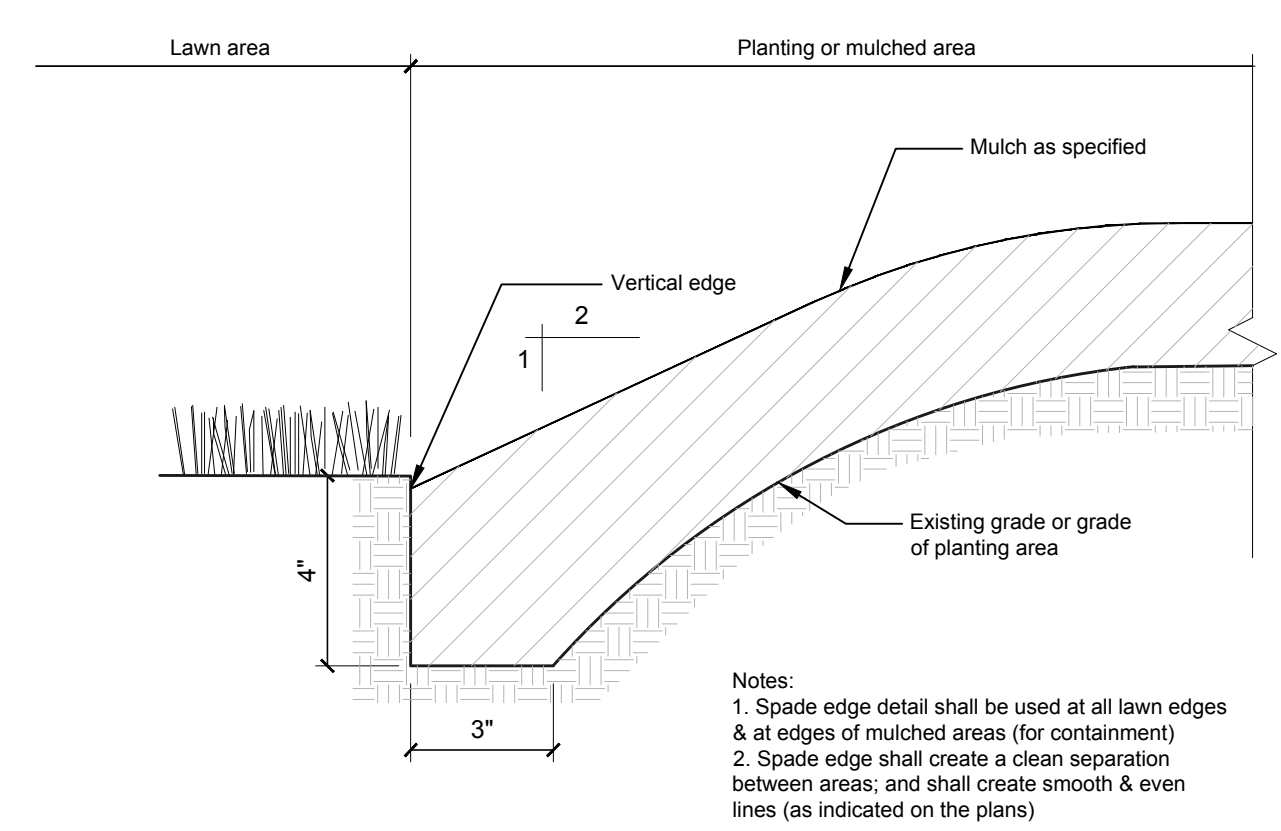
Notes:
1. Spacing is to be triangular
2. Intent is for plant species to be randomly distributed when multiple species are within one bed

3 PLANT SPACING
1/2" = 1'-0"

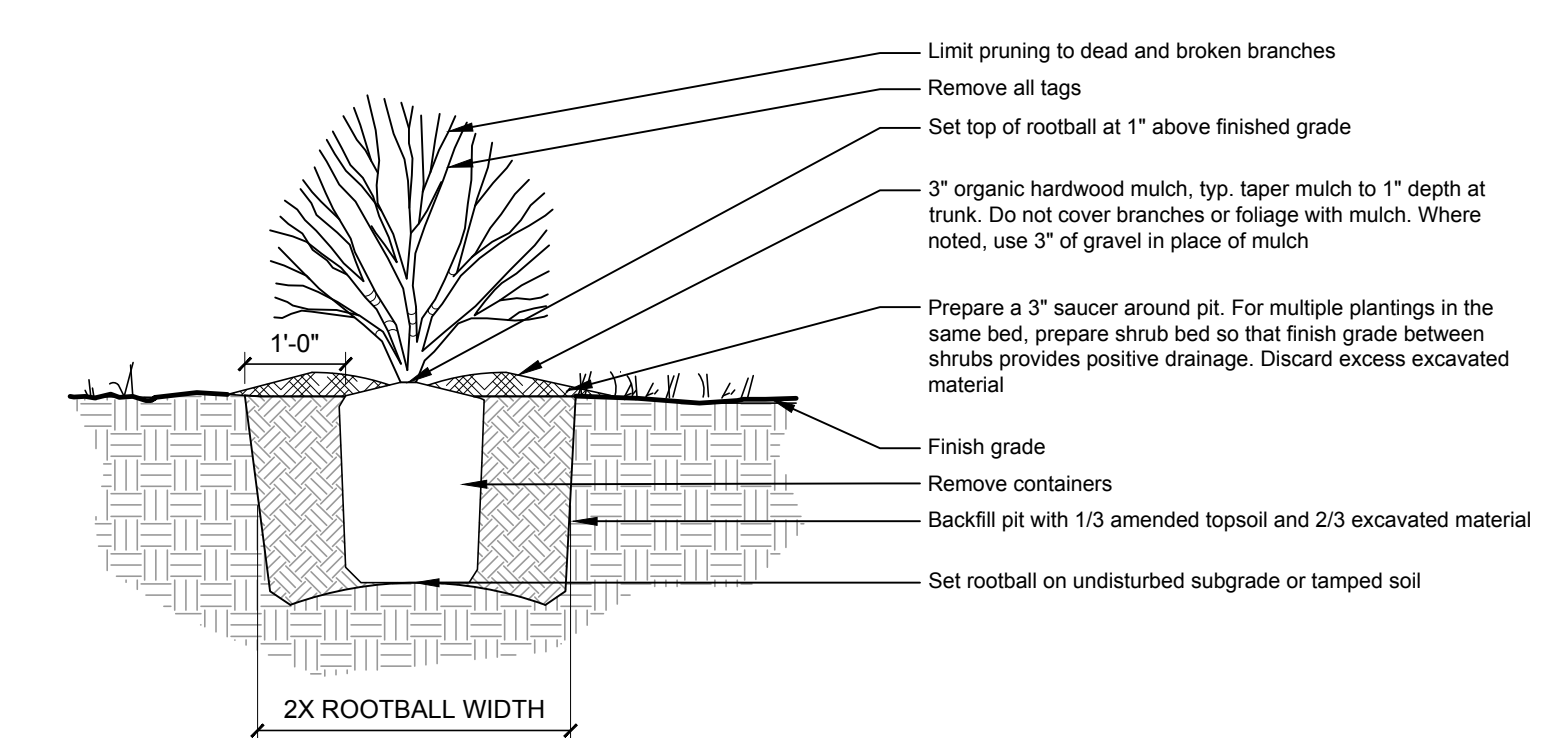


Note:
Root mass of pot bound plants should be loosened before planting

2 PERENNIAL PLANTING
1/2" = 1'-0"



4 SPADE EDGE
3" = 1'-0"



1 SHRUB PLANTING
1/2" = 1'-0"

No	Date	Issue

CHECKED BY DNF DRAWN BY LKH

SHEET TITLE
Details

SCALE IN FEET
as noted

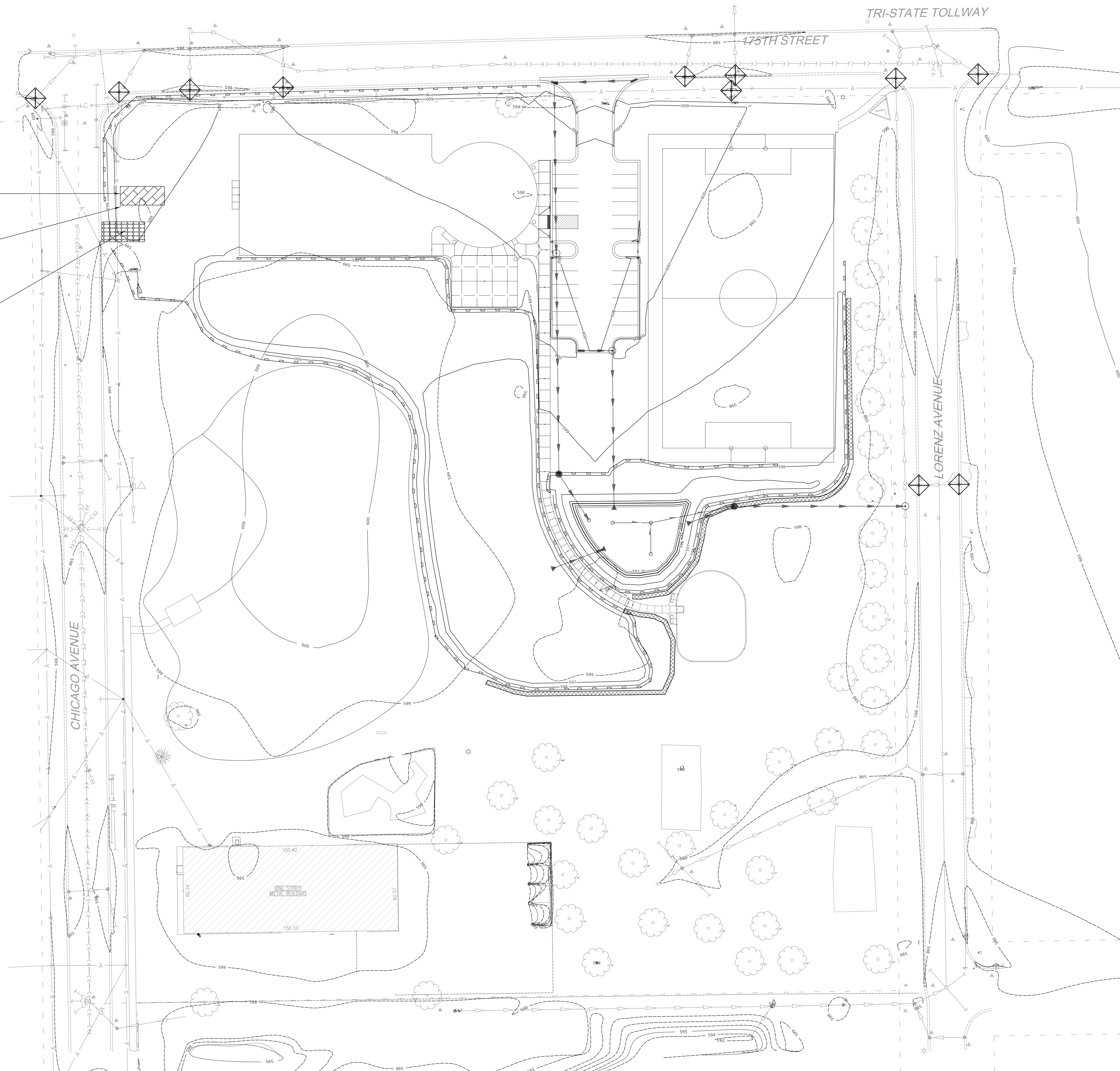
SHEET NUMBER

L5.3

- LEGEND**
- ▲ EXISTING COMBINATION MANHOLE
 - EXISTING CATCH BASIN
 - EXISTING SANITARY MANHOLE
 - EXISTING COMBINED SEWER
 - EXISTING SANITARY SEWER
 - |—|—| EXISTING STORM SEWER
 - |—|—| EXISTING WATER MAIN
 - T—T—T— EXISTING TELEPHONE
 - - - - - EXISTING FENCE
 - ◇ INLET FILTER
 - ▬▬▬▬ DOUBLE ROW PERIMETER EROSION BARRIER
 - ▨ CONSTRUCTION ENTRANCE
 - ▩ EROSION CONTROL BLANKET
 - ▧ CONCRETE TRUCK WASHOUT
 - ▩ BASIN OVERFLOW BERM - EL. 599.00

SEE LANDSCAPE SHEETS FOR MORE INFORMATION

NOTE: ALL EXISTING SEWERS SHOWN ARE OWNED AND MAINTAINED BY THE VILLAGE OF LANSING, UNLESS OTHERWISE NOTED.



APPROXIMATE LOCATION OF CONCRETE TRUCK WASHOUT

CONTRACTOR MUST ENSURE ROADWAY DRAINAGE IS MAINTAINED DURING CONSTRUCTION

APPROXIMATE LOCATION OF STABILIZED CONSTRUCTION ENTRANCE. SEE DETAIL.

CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY CURB, GUTTER, OR ROADWAY DAMAGED BY THE CONSTRUCTION ENTRANCE.

ISSUE FOR BID
JANUARY 8, 2025
REVISIONS

No	Date	Issue

CHECKED BY JHA DRAWN BY JRR/JR

SHEET TITLE
**EROSION/SEDIMENT
CONTROL AND
RESTORATION PLAN**

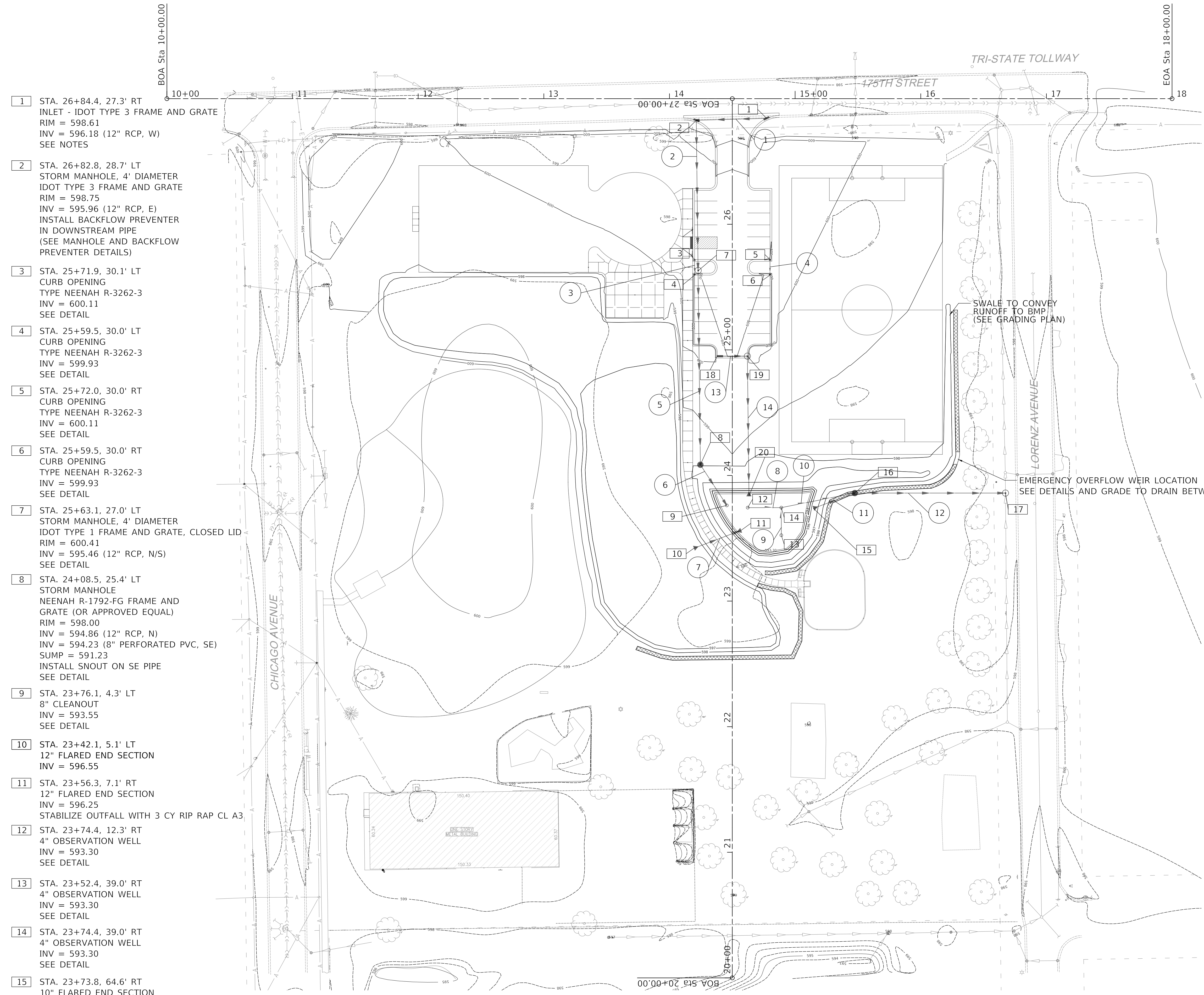
SCALE IN FEET
1" = 40'



NORTH SHEET NUMBER

C1.1

175th ALIGNMENT TABLE			
DESCRIPTION	STATION	NORTHING	EASTING
BOA	10+00.00	1789604.5987	1200060.3999
EOA	18+00.00	1789604.5987	1200860.3999



- 1 STA. 26+84.4, 27.3' RT INLET - IDOT TYPE 3 FRAME AND GRATE RIM = 598.61 INV = 596.18 (12" RCP, W) SEE NOTES
- 2 STA. 26+82.8, 28.7' LT STORM MANHOLE, 4' DIAMETER IDOT TYPE 3 FRAME AND GRATE RIM = 598.75 INV = 595.96 (12" RCP, E) INSTALL BACKFLOW PREVENTER IN DOWNSTREAM PIPE (SEE MANHOLE AND BACKFLOW PREVENTER DETAILS)
- 3 STA. 25+71.9, 30.1' LT CURB OPENING TYPE NEENAH R-3262-3 INV = 600.11 SEE DETAIL
- 4 STA. 25+59.5, 30.0' LT CURB OPENING TYPE NEENAH R-3262-3 INV = 599.93 SEE DETAIL
- 5 STA. 25+72.0, 30.0' RT CURB OPENING TYPE NEENAH R-3262-3 INV = 600.11 SEE DETAIL
- 6 STA. 25+59.5, 30.0' RT CURB OPENING TYPE NEENAH R-3262-3 INV = 599.93 SEE DETAIL
- 7 STA. 25+63.1, 27.0' LT STORM MANHOLE, 4' DIAMETER IDOT TYPE 1 FRAME AND GRATE, CLOSED LID RIM = 600.41 INV = 595.46 (12" RCP, N/S) SEE DETAIL
- 8 STA. 24+08.5, 25.4' LT STORM MANHOLE NEENAH R-1792-FG FRAME AND GRATE (OR APPROVED EQUAL) RIM = 598.00 INV = 594.86 (12" RCP, N) INV = 594.23 (8" PERFORATED PVC, SE) SUMP = 591.23 INSTALL SNOUT ON SE PIPE SEE DETAIL
- 9 STA. 23+76.1, 4.3' LT 8" CLEANOUT INV = 593.55 SEE DETAIL
- 10 STA. 23+42.1, 5.1' LT 12" FLARED END SECTION INV = 596.55
- 11 STA. 23+56.3, 7.1' RT 12" FLARED END SECTION STABILIZE OUTFALL WITH 3 CY RIP RAP CL A3
- 12 STA. 23+74.4, 12.3' RT 4" OBSERVATION WELL INV = 593.30 SEE DETAIL
- 13 STA. 23+52.4, 39.0' RT 4" OBSERVATION WELL INV = 593.30 SEE DETAIL
- 14 STA. 23+74.4, 39.0' RT 4" OBSERVATION WELL INV = 593.30 SEE DETAIL
- 15 STA. 23+73.8, 64.6' RT 10" FLARED END SECTION INV = 596.55
- 16 STA. 23+86.0, 97.5' RT OUTLET CONTROL STRUCTURE RIM = 599.00 INV = 596.49 (10" PVC, W) INV = 593.90 (4" PVC) INV = 593.90 (10" PVC, E) SEE DETAIL
- 17 STA. 23+86.0, 217.4' RT STORM MANHOLE, 4' DIAMETER IDOT TYPE 1 FRAME AND GRATE, CLOSED LID RIM = 597.69 INV = 593.40 (10" PVC, W) INV = 593.40 (EX 12" RCP, N/S) INSTALL IN-LINE CHECK VALVE IN 10" INLET PIPE FROM WEST. SEE DETAIL
- 18 STA. 24+95.0, 12.0' LT INLET - IDOT TYPE 3 FRAME AND GRATE RIM = 599.86 INV = 596.88 (12" RCP, E) SEE NOTES
- 19 STA. 24+95.0, 12.0' RT STORM MANHOLE, 4' DIAMETER IDOT TYPE 3 FRAME AND GRATE RIM = 599.86 INV = 596.79 (12" RCP, W) INV = 596.69 (12" PVC, S)
- 20 STA. 23+84.0, 13.3' LT 12" FLARED END SECTION INV = 596.25 STABILIZE OUTFALL WITH 3 CY RIP RAP CL A3

- NOTES / LEGEND TITLE**
- LEGEND**
- ⊛ EXISTING COMBINATION MANHOLE
 - ⊙ EXISTING CATCH BASIN
 - ⊙ EXISTING SANITARY MANHOLE
 - EXISTING COMBINED SEWER
 - EXISTING SANITARY SEWER
 - EXISTING STORM SEWER
 - W— EXISTING WATER MAIN
 - T— EXISTING TELEPHONE
 - - - - EXISTING FENCE
 - PROPOSED CLEANOUT
 - PROPOSED STORM SEWER
 - ▲ PROPOSED CURB OPENING
 - PROPOSED INLET
 - ▲ PROPOSED FLARED END SECTION
 - ▨ BASIN OVERFLOW BERM - EL. 599.00

- NOTES**
1. INLET SHALL BE IN ACCORDANCE WITH IDOT STANDARD DRAWING 602301-04 - INLET - TYPE A.
 2. ALL EXISTING SEWERS SHOWN ARE OWNED AND MAINTAINED BY THE VILLAGE OF LANSING UNLESS OTHERWISE NOTED.

- 1 56 LF 12" RCP @ 0.4%
- 2 124 LF 12" RCP @ 0.4%
- 3 21 LF 4" PVC SDR-26 @ 0.38 %
- 4 21 LF 4" PVC SDR-26 @ 0.38%
- 5 150 LF 12" RCP @ 0.4%
- 6 34 LF 8" PVC SDR-26 @ 2.0% LAST 10 FEET OF PIPE TO BE PERFORATED AND WITHIN THE BIORETENTION AGGREGATE SECTION. PERFORATIONS MUST AMOUNT TO AT LEAST 5 SQUARE INCHES PER LINEAR FOOT OF PIPE. SEE DETAIL
- 7 35 LF 12" PVC SDR-26 @ 0.57% LENGTH INCLUDES FLARED END SECTIONS
- 8 4" PVC SDR-26, PERFORATED DRAIN TILE @ 0.00% ALL INVERTS 593.30
- 9 4" PVC SDR-26, PERFORATED DRAIN TILE @ 0.00% ALL INVERTS 593.30
- 10 4" PVC SDR-26, PERFORATED DRAIN TILE @ 0.00% ALL INVERTS 593.30
- 11 33 LF 10" PVC SDR-26 @ 1.5%
- 12 116 LF 10" PVC SDR-26 @ 0.30%
- 13 23 LF 12" RCP @ 0.40%
- 14 109 LF 12" PVC SDR-26 @ 0.40%

PARKING LOT ALIGNMENT TABLE			
DESCRIPTION	STATION	NORTHING	EASTING
BOA	20+00.00	1788904.5987	1200510.3951
EOA	27+00.00	1789604.5987	1200510.3999



22 E. Chicago Avenue
Suite 200A
Naperville, IL 60540
T 630.961.1787
hitchcockdesigngroup.com

PREPARED FOR
Lan-Oak Park District
2550 178th Street
Lansing, IL 60438

PROJECT
Bock Park Phase One
17500 Lorenz Avenue
Lansing, IL 60438

CONSULTANTS
Civil Engineering
Civiltech Engineering, Inc.
30 N LaSalle St, Suite 3220
Chicago, Illinois 60602
T 630.735.7159

ISSUE FOR BID
JANUARY 8, 2025
REVISIONS

No	Date	Issue

CHECKED BY JHA DRAWN BY JRR/JR

SHEET TITLE
DRAINAGE PLAN

SCALE IN FEET
1" = 40'
0' 20' 40' 120'

NORTH SHEET NUMBER
C2.1
©2025 Hitchcock Design Group





22 E. Chicago Avenue
Suite 200A
Naperville, IL 60540
T 630.961.1787
hitchcockdesigngroup.com

PREPARED FOR
Lan-Oak Park District

2550 178th Street
Lansing, IL 60438

PROJECT
Bock Park Phase One

17500 Lorenz Avenue
Lansing, IL 60438

CONSULTANTS
**Civil Engineering
Civiltech Engineering, Inc.**
30 N LaSalle St, Suite 3220
Chicago, Illinois 60602
T 630.735.7159

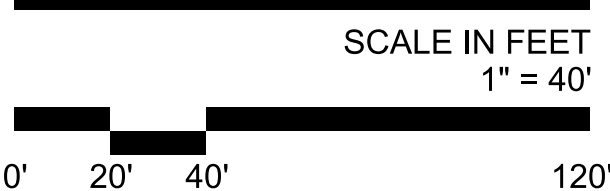
LEGEND
EP EDGE OF PAVEMENT
BC BACK OF CURB

ISSUE FOR BID
JANUARY 8, 2025
REVISIONS

No	Date	Issue

CHECKED BY: JHA DRAWN BY: JRR/JR

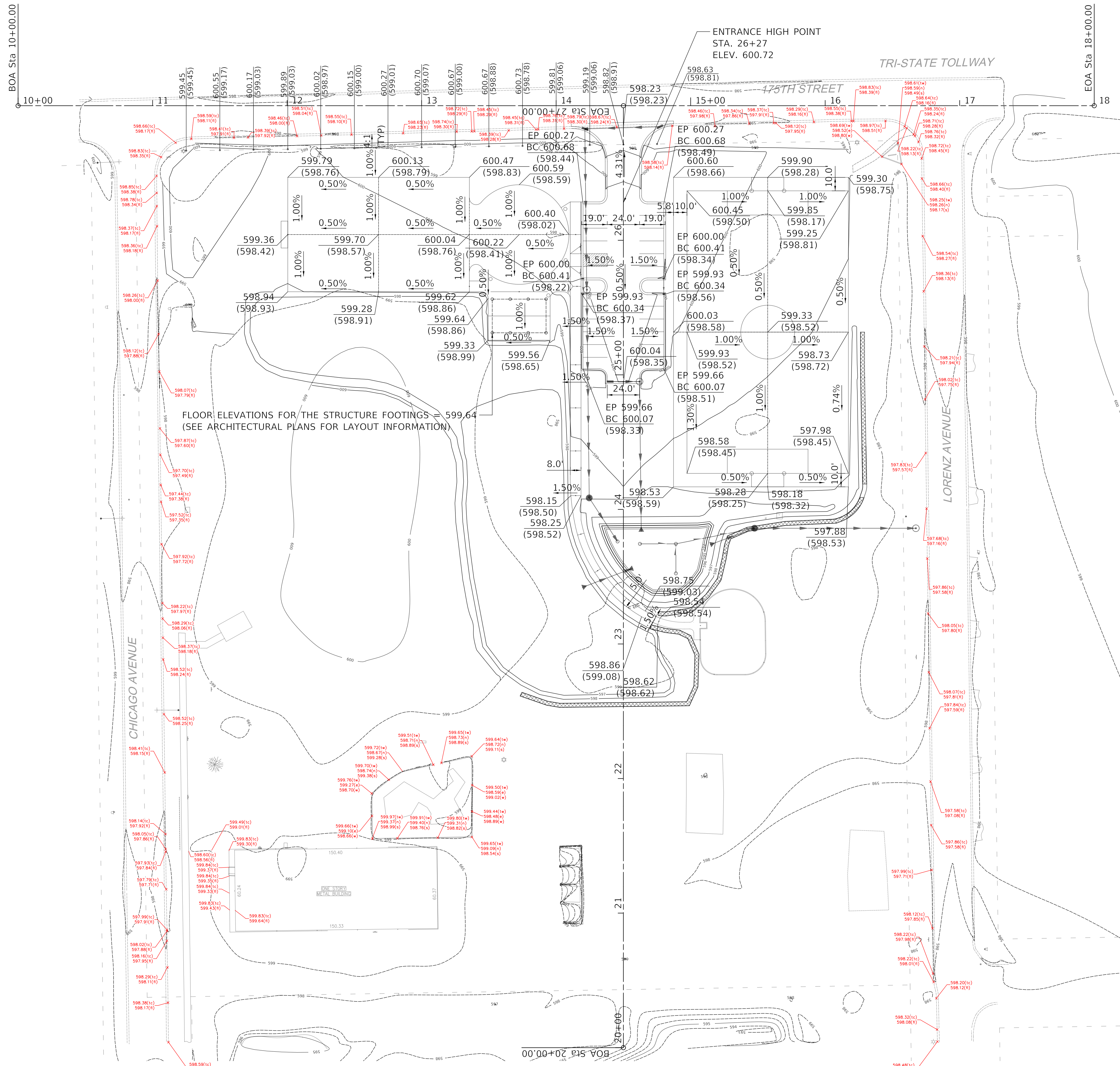
SHEET TITLE
GRADING PLAN



NORTH SHEET NUMBER

C3.1

©2025 Hitchcock Design Group



LEGEND

BASIN OVERFLOW BERM - EL. 599.00
 PROPERTY LINE
 1.0' EXISTING INTERMEDIATE CONTOUR
 5.0' EXISTING INDEX CONTOUR
 0.5' PROPOSED INTERMEDIATE CONTOUR
 1.0' PROPOSED INDEX CONTOUR
 XXX.XX PROPOSED ELEVATION
 (XXX.XX) EXISTING ELEVATION
 EP EDGE OF PAVEMENT
 BC BACK OF CURB

FLOOR ELEVATIONS FOR THE STRUCTURE FOOTINGS = 599.64
(SEE ARCHITECTURAL PLANS FOR LAYOUT INFORMATION)

c:\msc\hitch-co\leap-abrams\01224553\9303_Bock.dgn

No	Date	Issue

CHECKED BY: JHA DRAWN BY: JRR/JR

SHEET TITLE
DETAILS

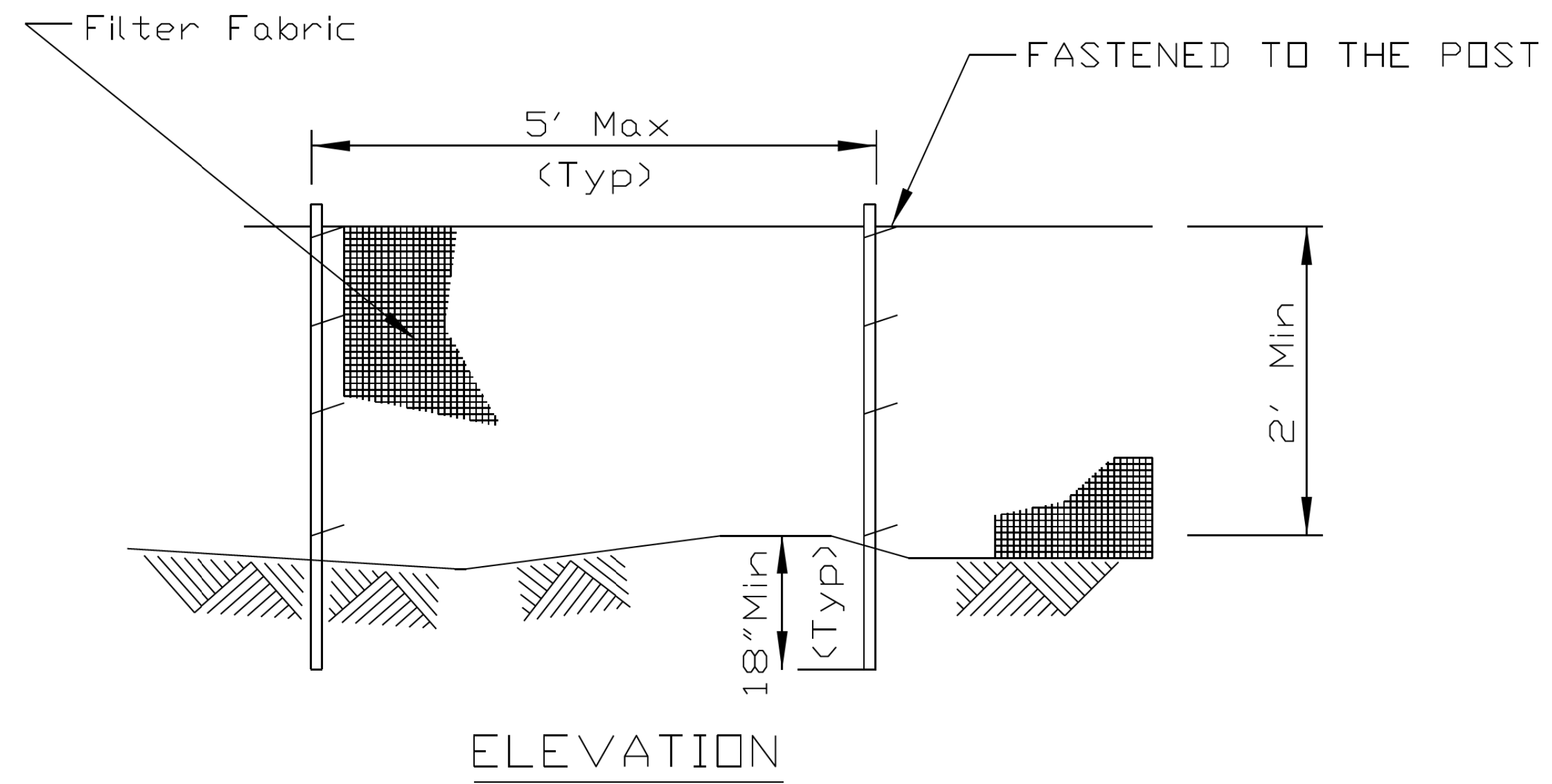
SCALE IN FEET
1" = 40'



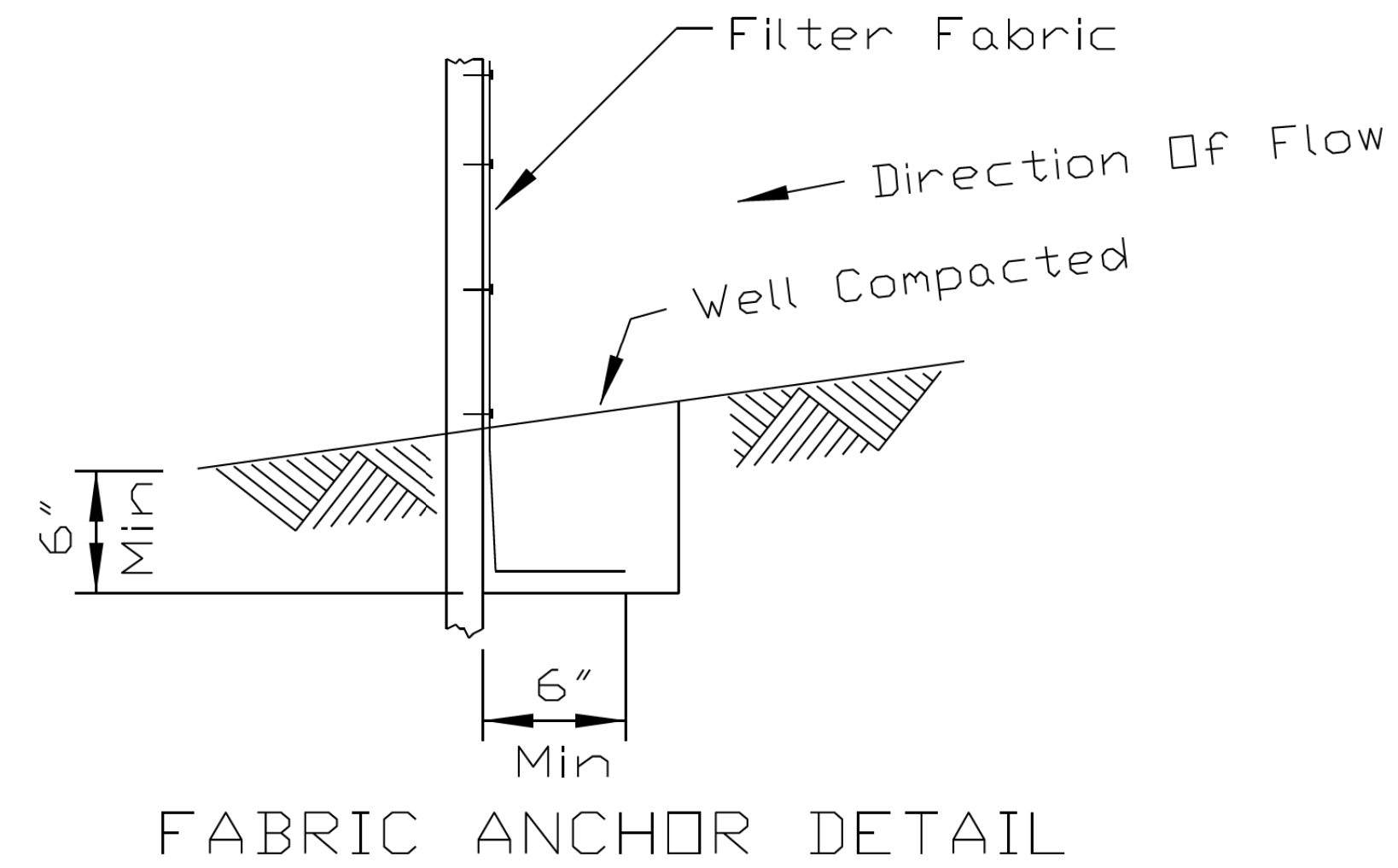
NORTH SHEET NUMBER



SILT FENCE PLAN



ELEVATION

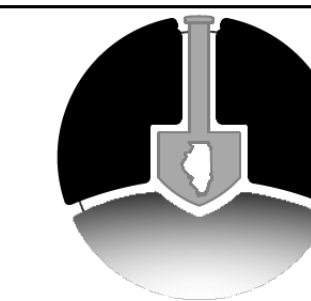


FABRIC ANCHOR DETAIL

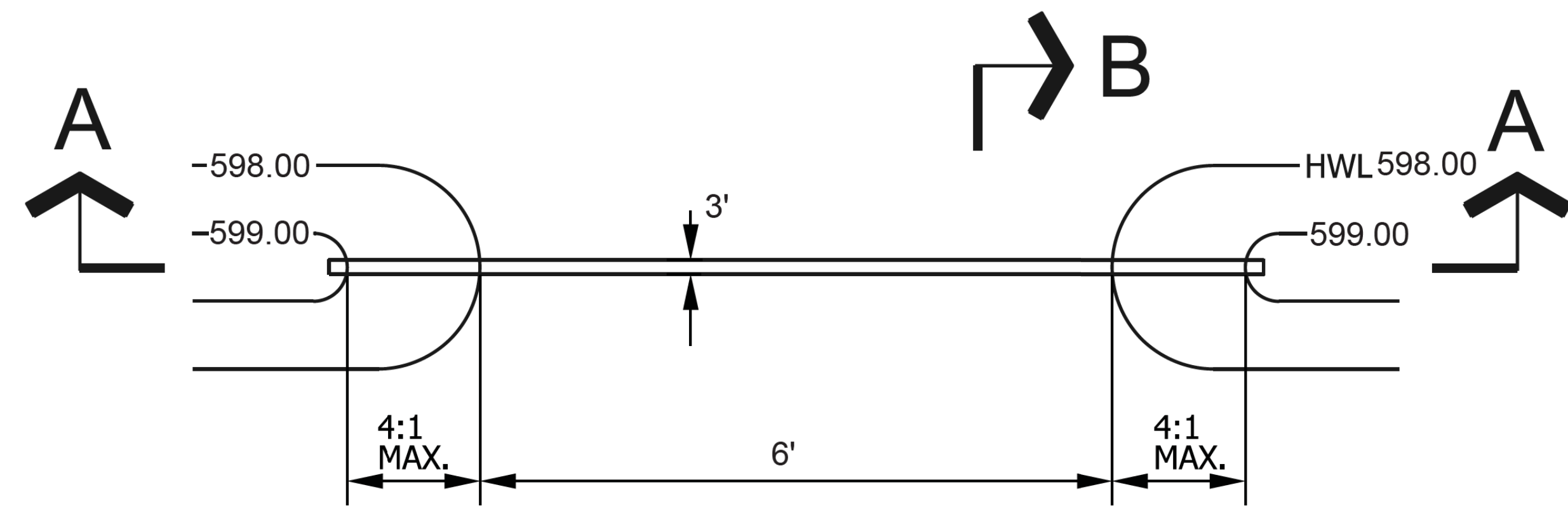
NOTES:

- Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
- Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1, Class 2.
- Fence posts shall be either standard steel post or wood post 2" X 2" nominal.

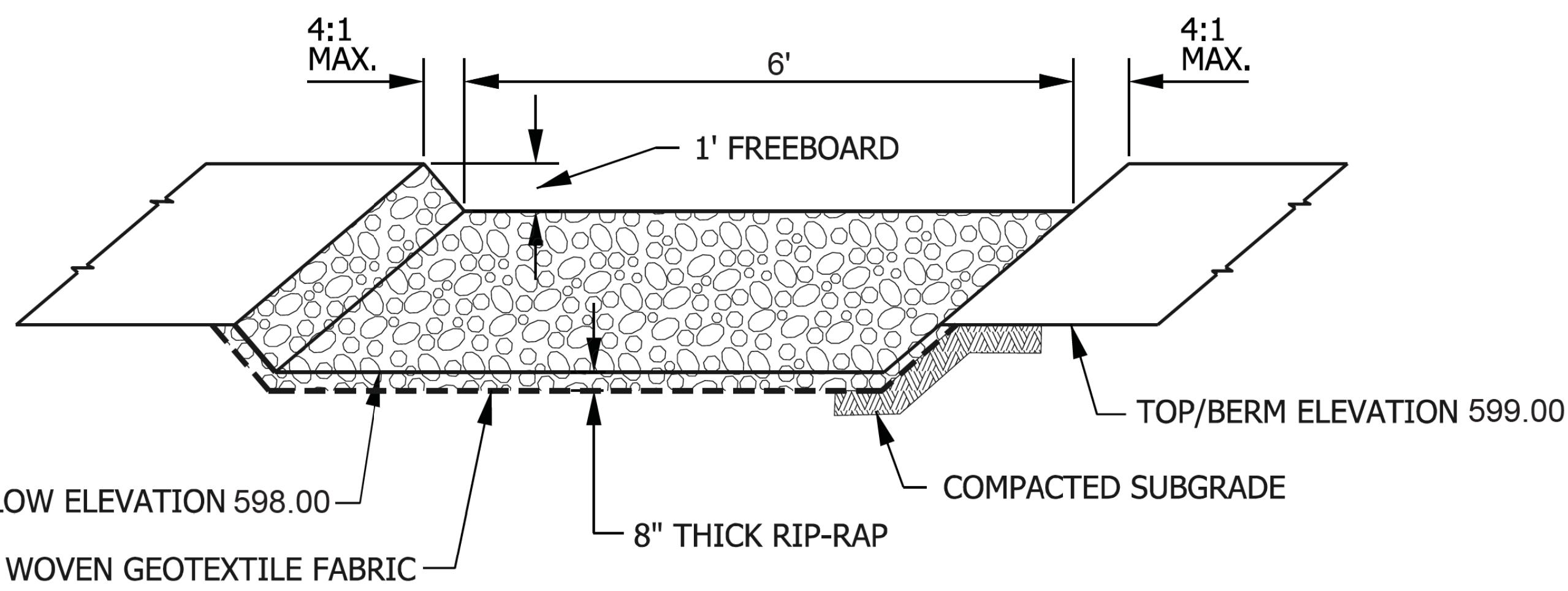
REFERENCE	Project	_____
	Designed	_____ Date _____
	Checked	_____ Date _____
	Approved	_____ Date _____



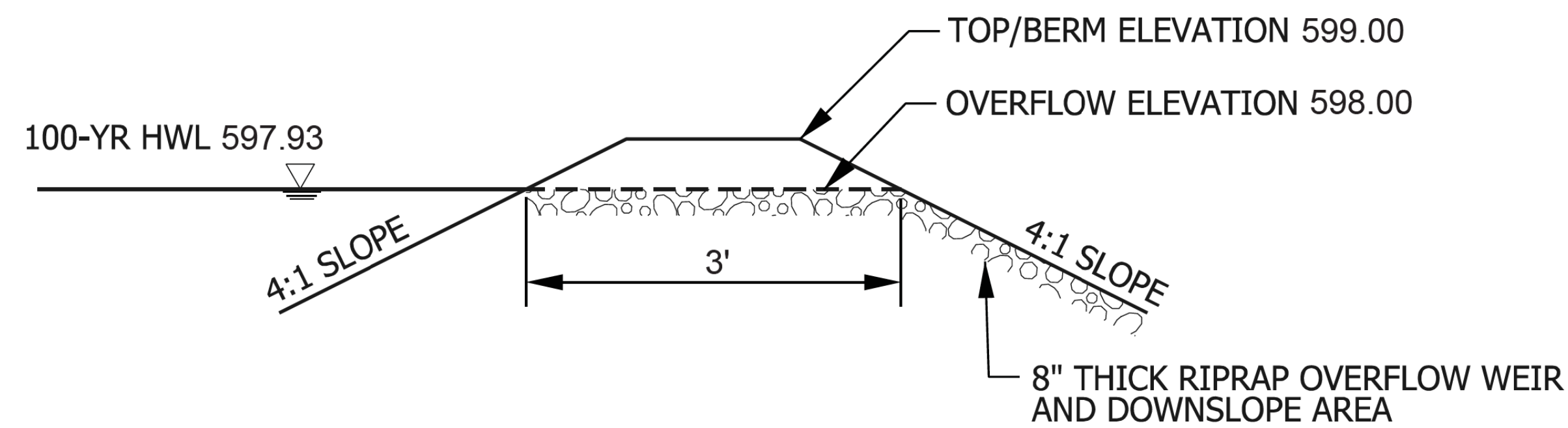
STANDARD DWG. NO.
IUM-620A
SHEET 1 OF 2
DATE 04-15-2021



PLAN VIEW



SECTION A - A



SECTION B - B

NOTES:

- FINISHED FLOOR ELEVATIONS OF ADJACENT STRUCTURE SHALL BE ELEVATED AT LEAST ONE FOOT ABOVE PEAK 100-YEAR WATER SURFACE ELEVATION THROUGH OVERFLOW WEIR.
- WOVEN GEOTEXTILE FABRIC SHALL MEET OR EXCEED STANDARDS OF IUM MATERIAL SPECIFICATION 592, TABLE 1, CLASS I, II, OR III.

NOT TO SCALE



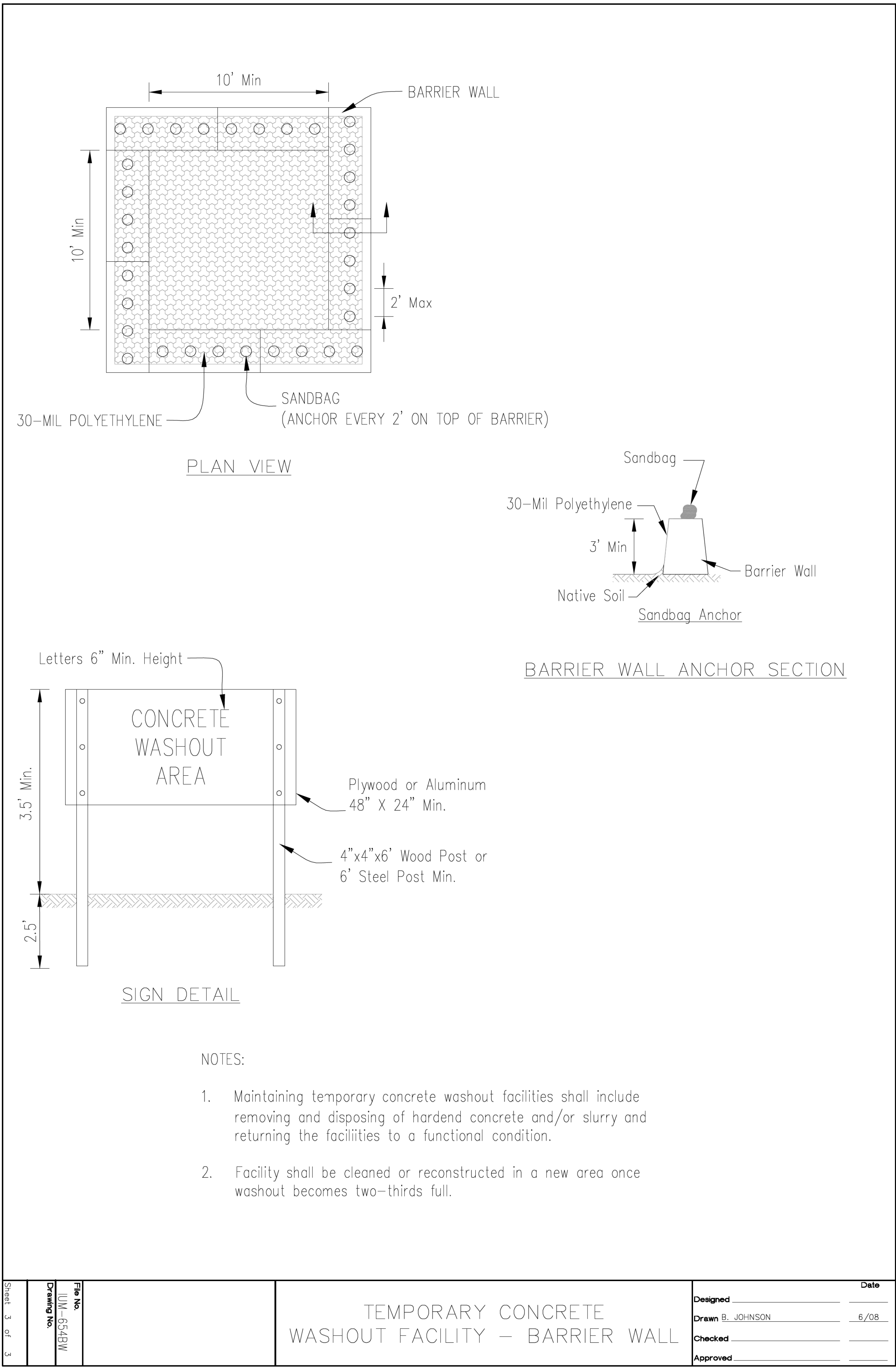
TECHNICAL GUIDANCE MANUAL

7/1/15

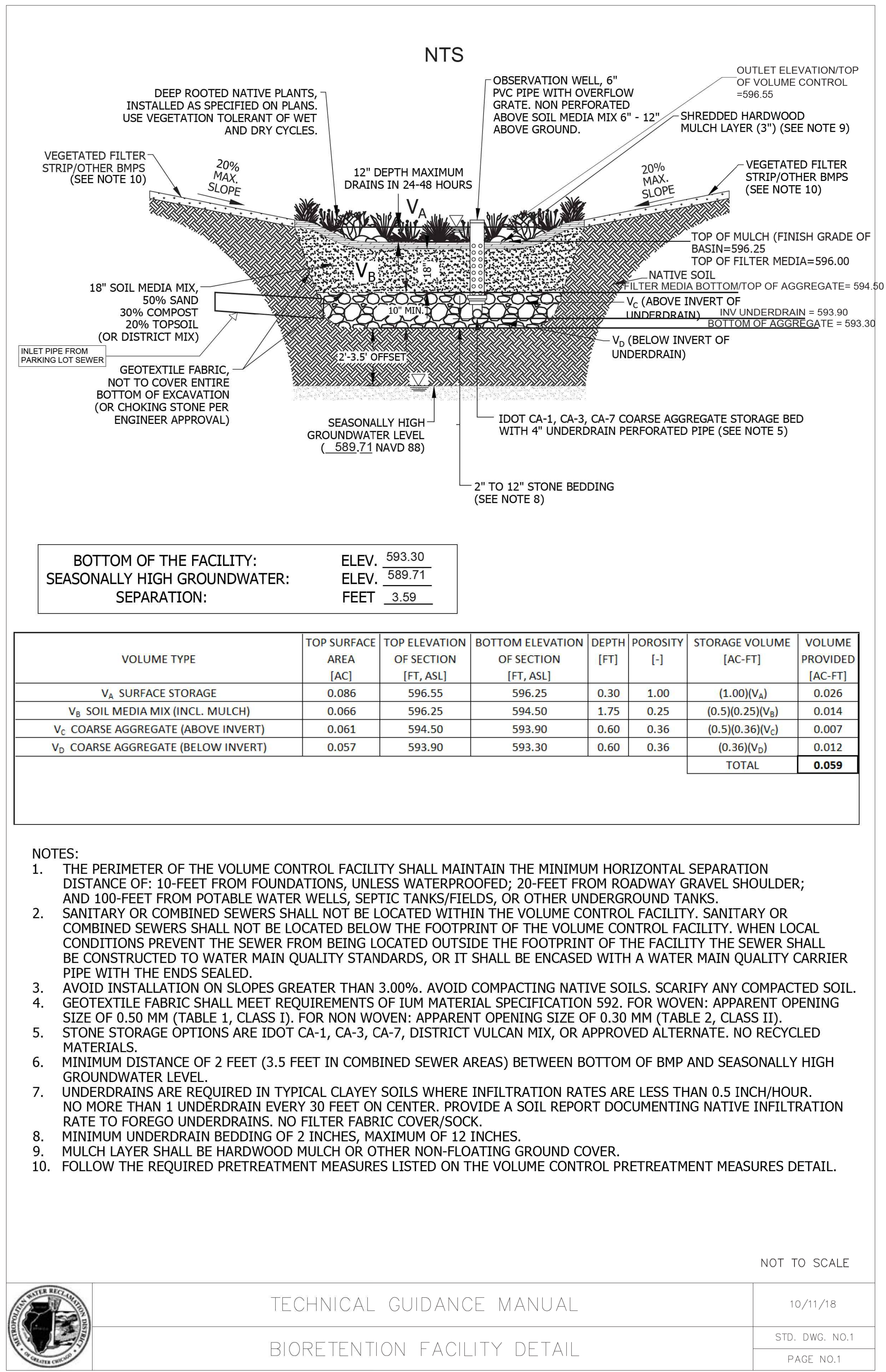
TYPICAL EMERGENCY OVERFLOW WEIR

STD. DWG. NO.22

PAGE NO. 23

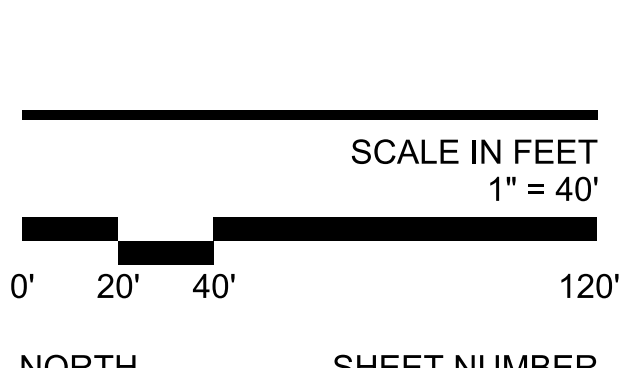


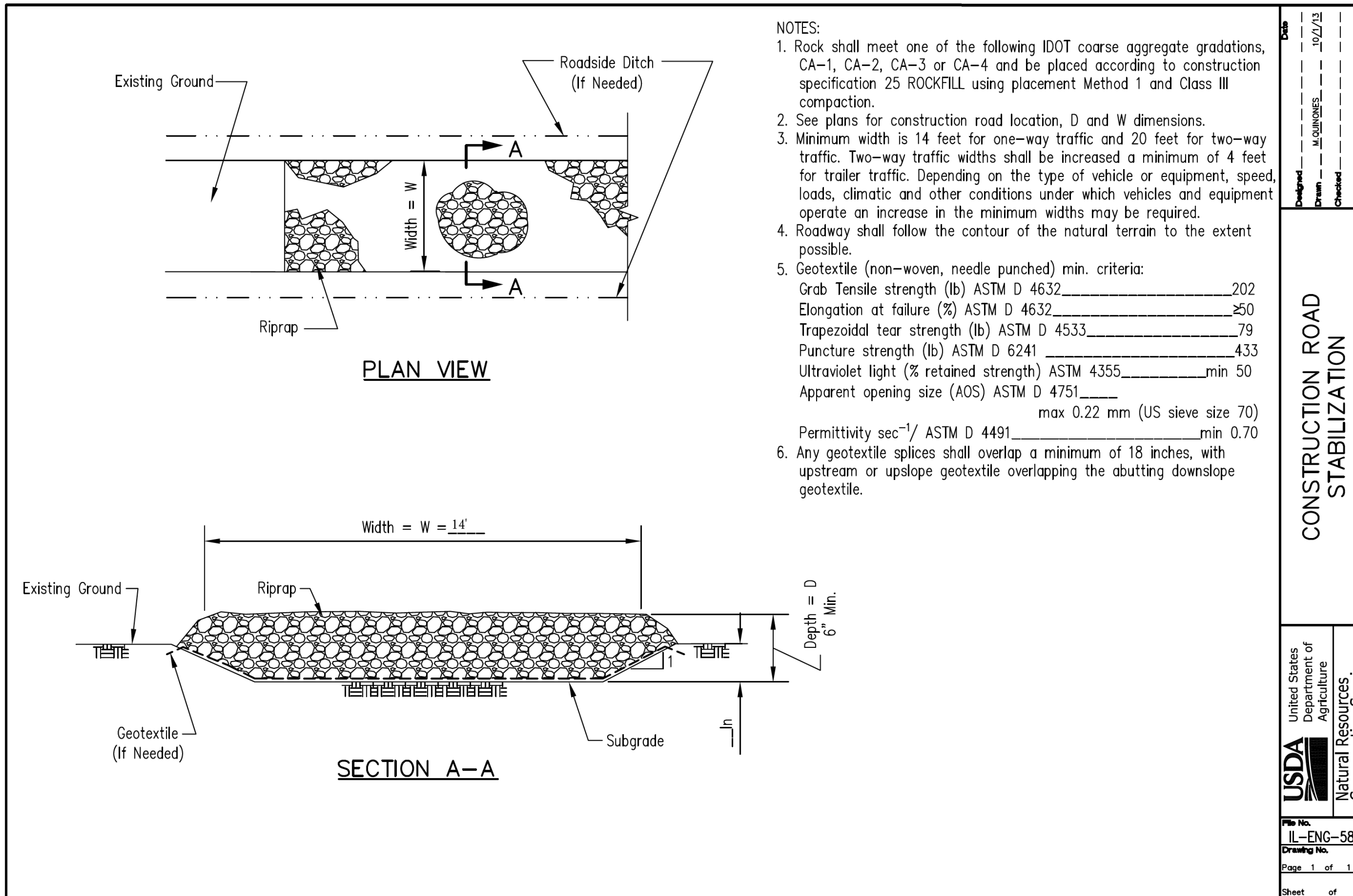
Sheet 3 of 3	File No. UM-6548W Drawing No.	Designed _____ Drawn B. JOHNSON 6/08 Checked _____ Approved _____	Date
TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL			



	TECHNICAL GUIDANCE MANUAL	10/11/18
	BIORETENTION FACILITY DETAIL	STD. DWG. NO.1
	NOT TO SCALE	PAGE NO.1

No	Date	Issue



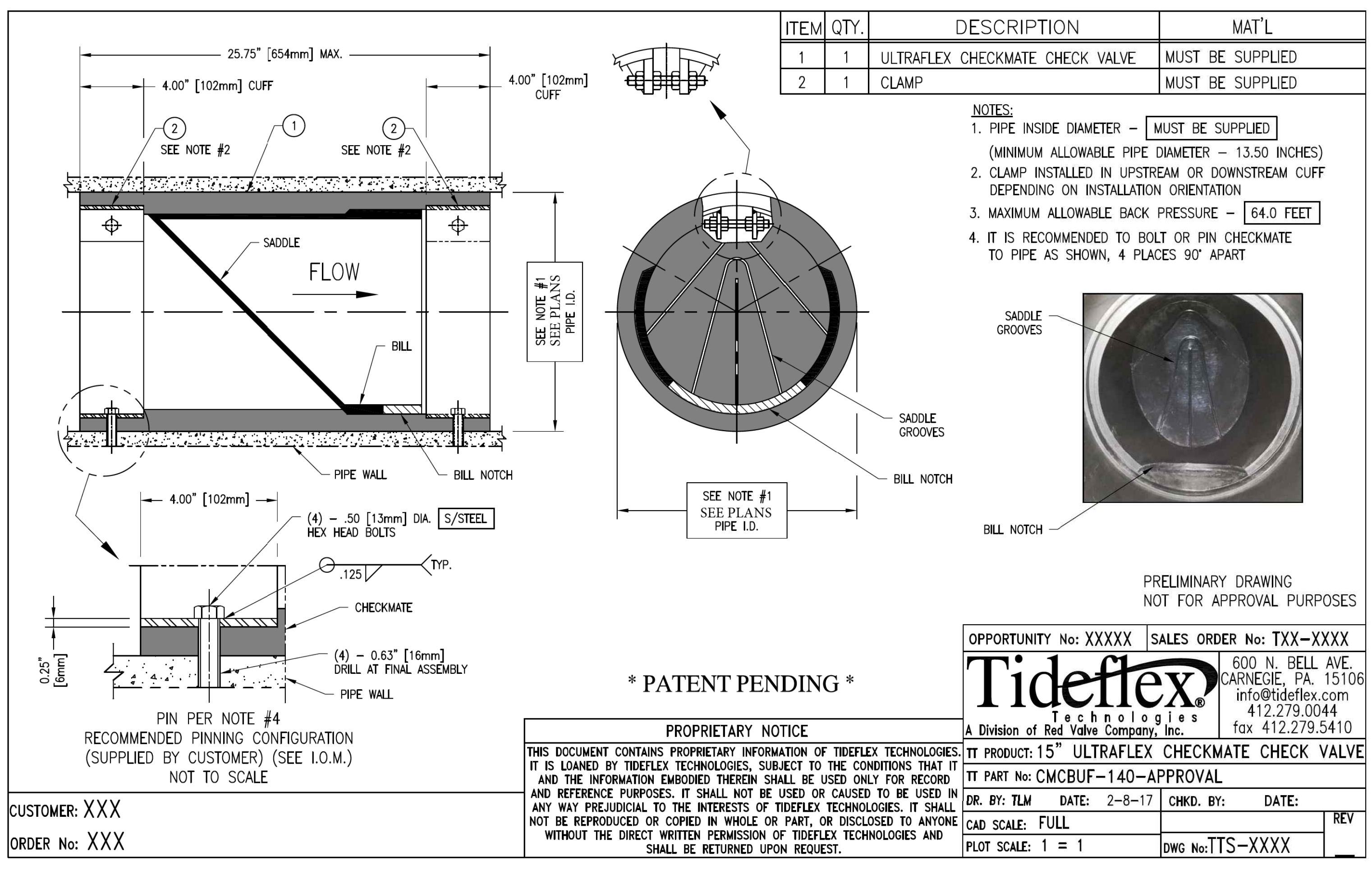


CONSTRUCTION ROAD STABILIZATION

United States Department of Agriculture Natural Resources Conservation Service

IL-ENG-58

Sheet 1 of 1



HITCHCOCK DESIGN GROUP
creating better places

22 E. Chicago Avenue
Suite 200A
Naperville, IL 60540
T 630.961.1787
hitchcockdesigngroup.com

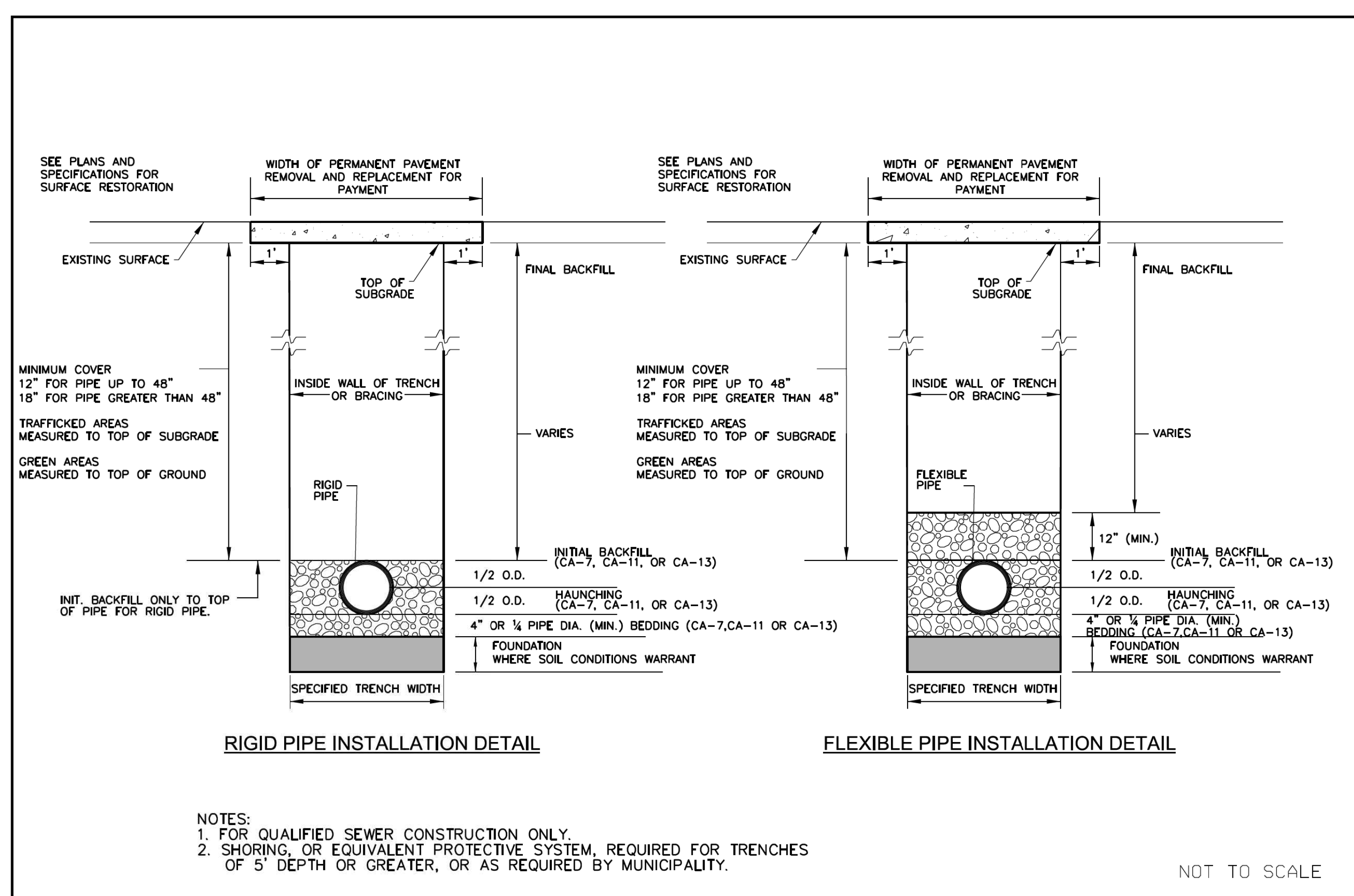
PREPARED FOR
Lan-Oak Park District

2550 178th Street
Lansing, IL 60438

PROJECT
Bock Park Phase One

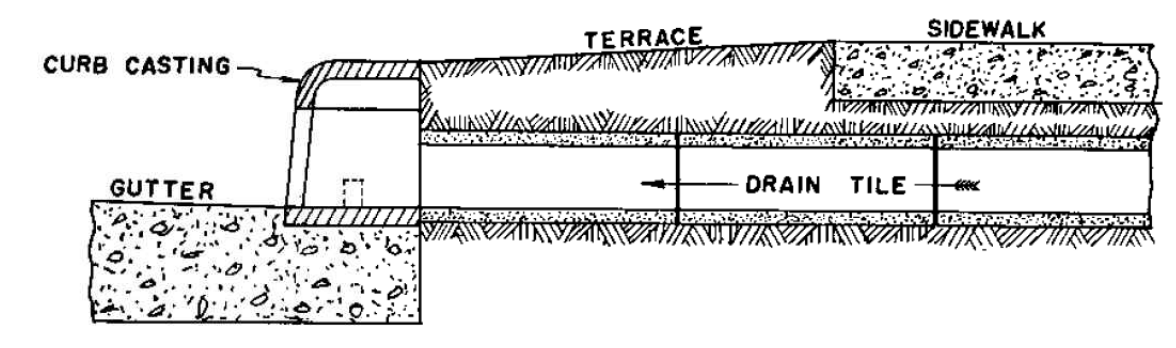
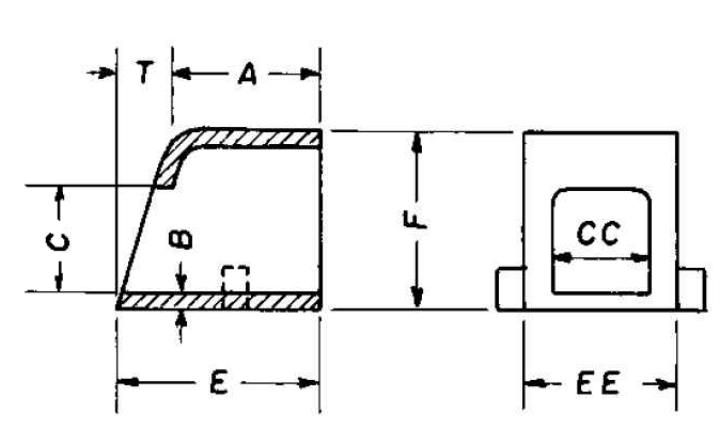
17500 Lorenz Avenue
Lansing, IL 60438

CONSULTANTS
Civil Engineering
Civiltech Engineering, Inc.
30 N LaSalle St, Suite 3220
Chicago, Illinois 60602
T 630.735.7159



R-3262 Series Storm Water Curb Openings

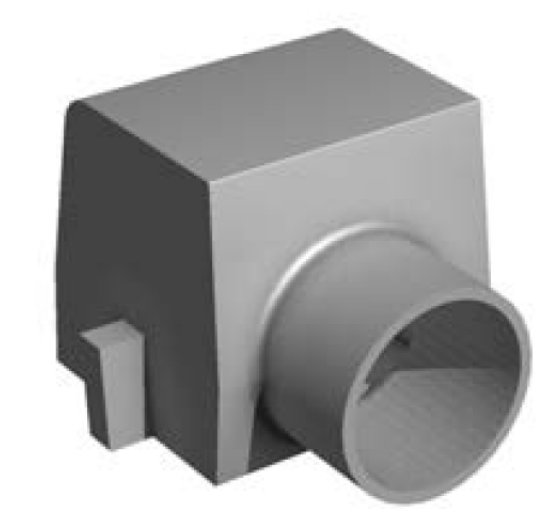
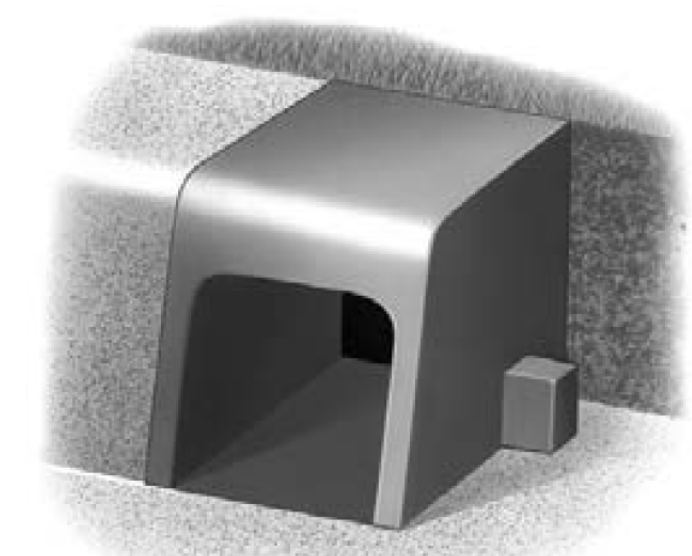
Heavy Duty



Curb opening castings are used as shown, where it is advantageous to transmit stormwater from downspout in shallow drains and discharge it through the curb to the street gutter.

Catalog No.	A	B	C	C-C	E	E-E	F	T
R-3262-1	5	1/2	4	4	6	5	7	1
R-3262-2	6	1/2	4	4	8 1/4	5	6	2 1/4
R-3262-3*	5	1/2	4	5 1/2	6	6 1/2	6 1/2	1
R-3262-4	5	1/2	4	16	7	17	6 3/8	2
R-3262-6	6	1/2	6	6	8	7 1/4	9	2

*4" ID outlet is optional.



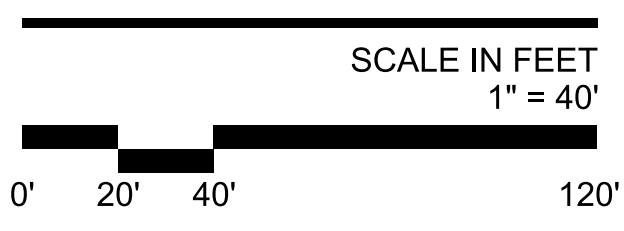
Rear view of R-3262-3 only. (optional)

ISSUE FOR BID
JANUARY 8, 2025
REVISIONS

No	Date	Issue

CHECKED BY: JHA
DRAWN BY: JRR/JR

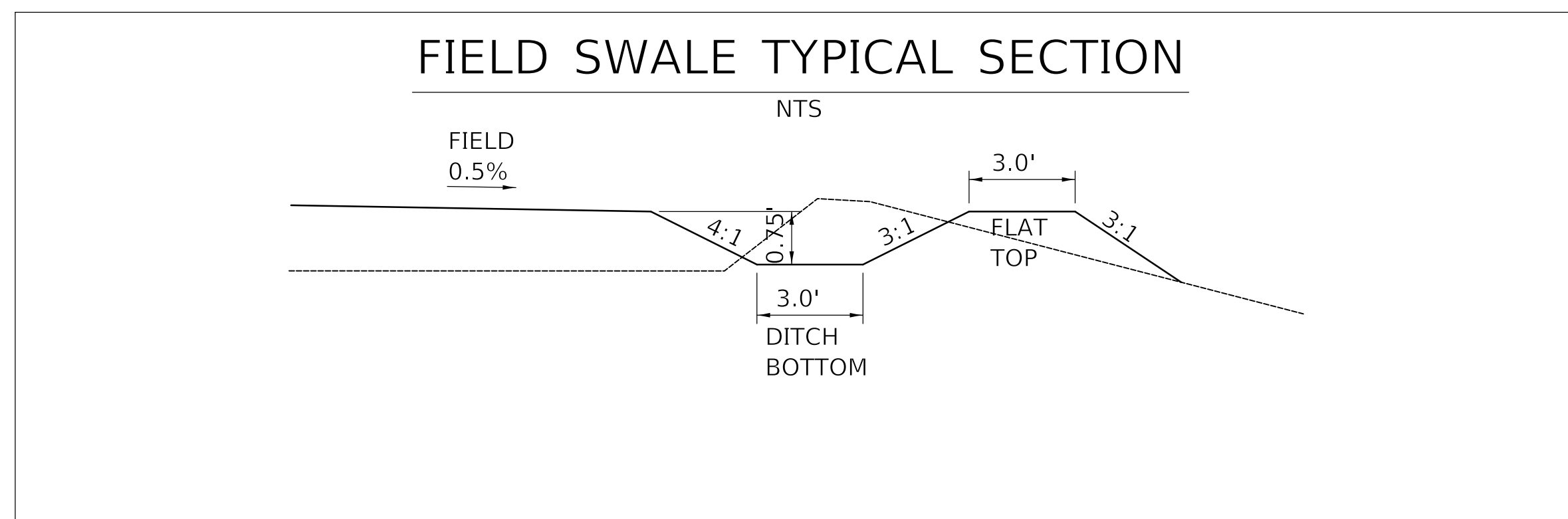
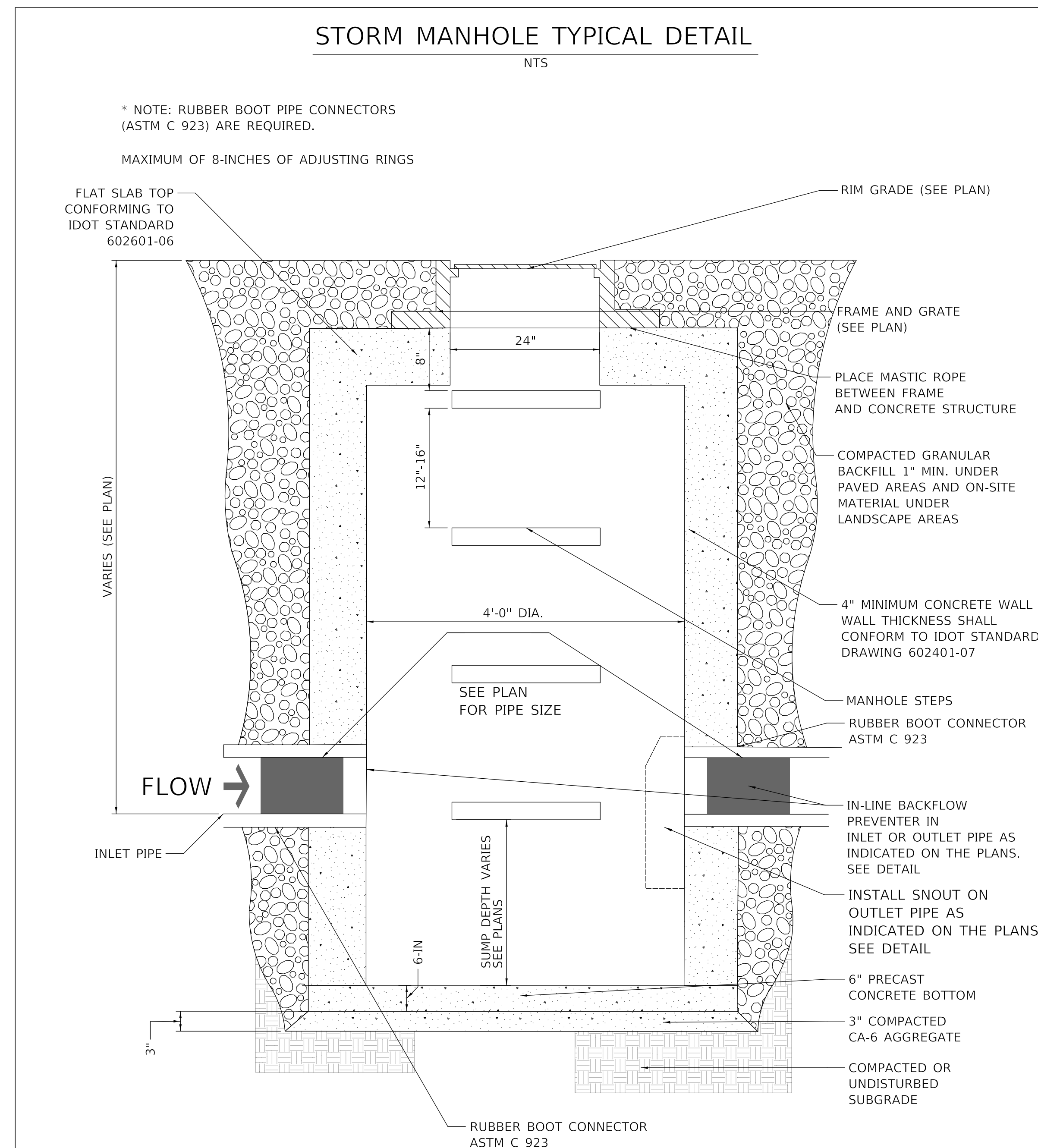
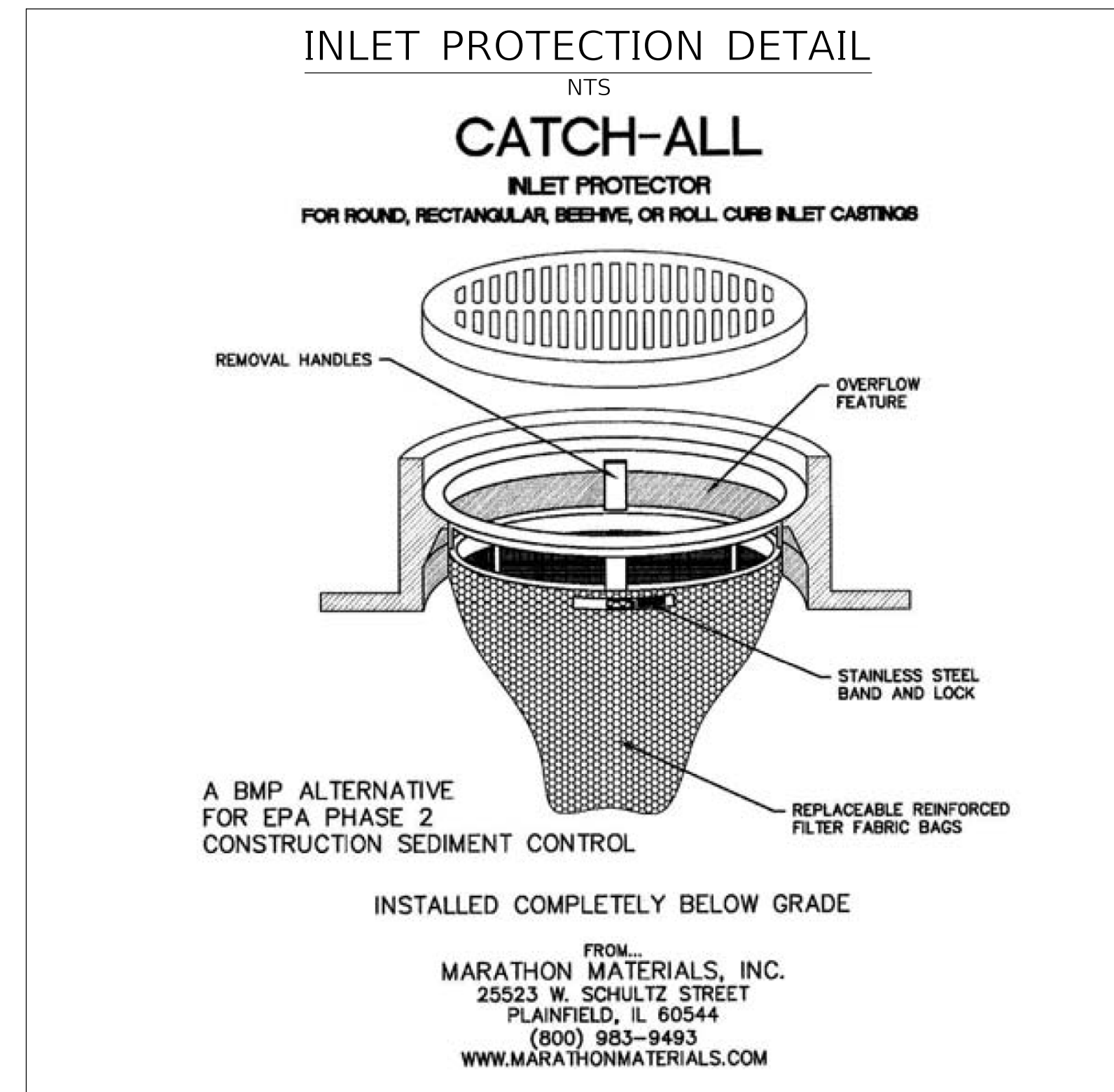
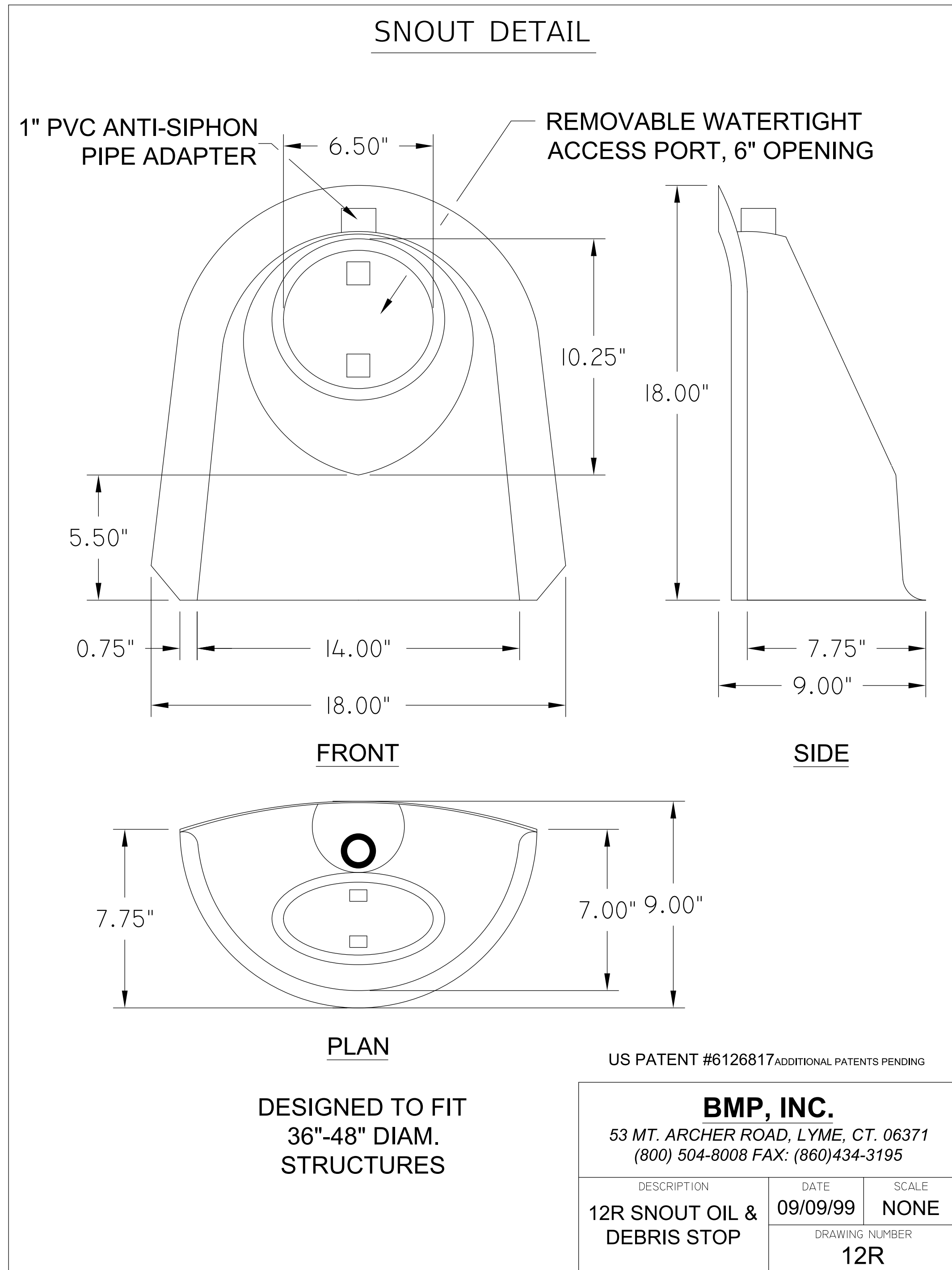
SHEET TITLE
DETAILS



NORTH SHEET NUMBER

C4.3
©2025 Hitchcock Design Group





22 E. Chicago Avenue
Suite 200A
Naperville, IL 60540
T 630.961.1787
hitchcockdesigngroup.com

PREPARED FOR
Lan-Oak Park District

2550 178th Street
Lansing, IL 60438

PROJECT
Bock Park Phase One

17500 Lorenz Avenue
Lansing, IL 60438

CONSULTANTS
Civil Engineering
Civitech Engineering, Inc.
30 N LaSalle St, Suite 3220
Chicago, Illinois 60602
T 630.735.7159

ISSUE FOR BID
JANUARY 8, 2025

No	Date	Issue

CHECKED BY JHA DRAWN BY JRR/JR

SHEET TITLE
DETAILS

SCALE IN FEET
1" = 40'

NORTH SHEET NUMBER

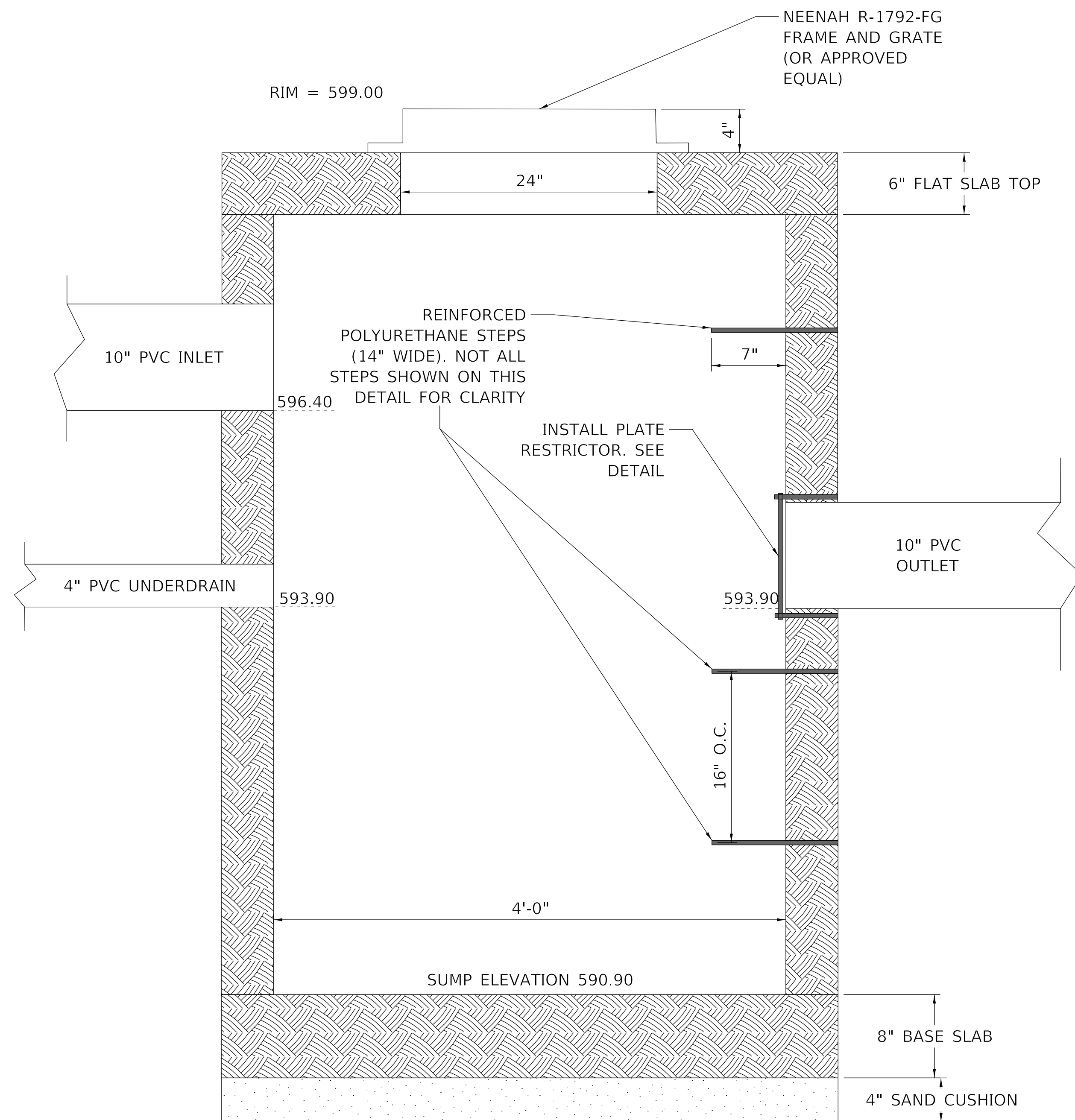
C4.4

©2025 Hitchcock Design Group



OUTLET CONTROL STRUCTURE DETAIL

NTS



- NOTES:
1. MANHOLE MUST CONFORM TO ASTM C-478, IDOT 602401-07, IDOT 604001-05 AS AMENDED IN THIS DRAWING
 2. MANHOLE SECTIONS TO BE TONGUE AND GROOVED.
 3. NON-SHRINK GROUT OR CEMENT TO BE USED ON ALL PENETRATIONS INSIDE AND OUTSIDE OF STRUCTURE.
 4. ALL PIPE PENETRATIONS TO BE CORED, RUBBER BOOTED AND INTERIOR GROUTED (NON-SHRINK) OR CEMENTED, ASTM C923 CONNECTORS IN COMBINED SEWER AREAS.

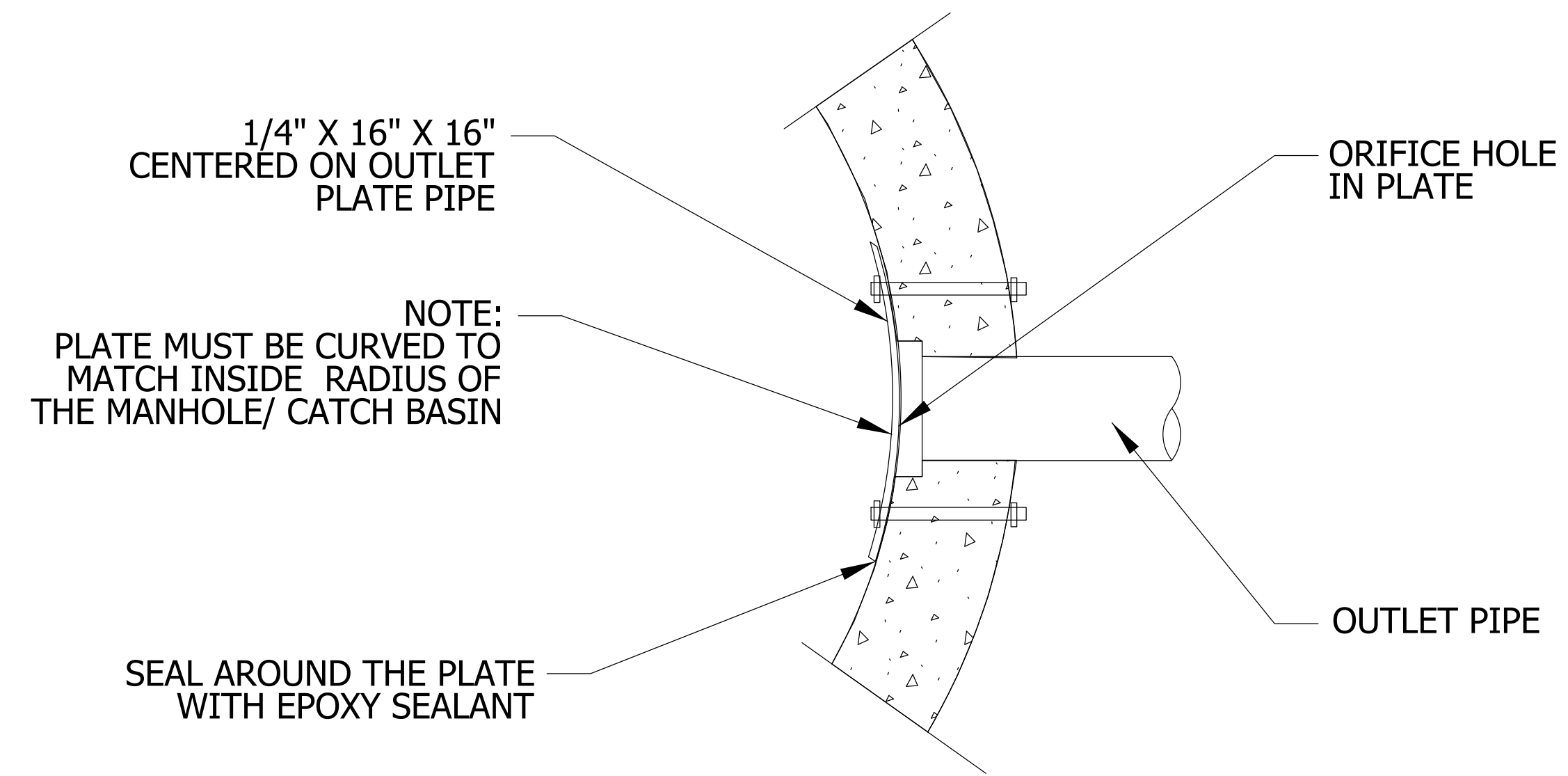


PLATE RESTRICTOR DETAIL: SECTION

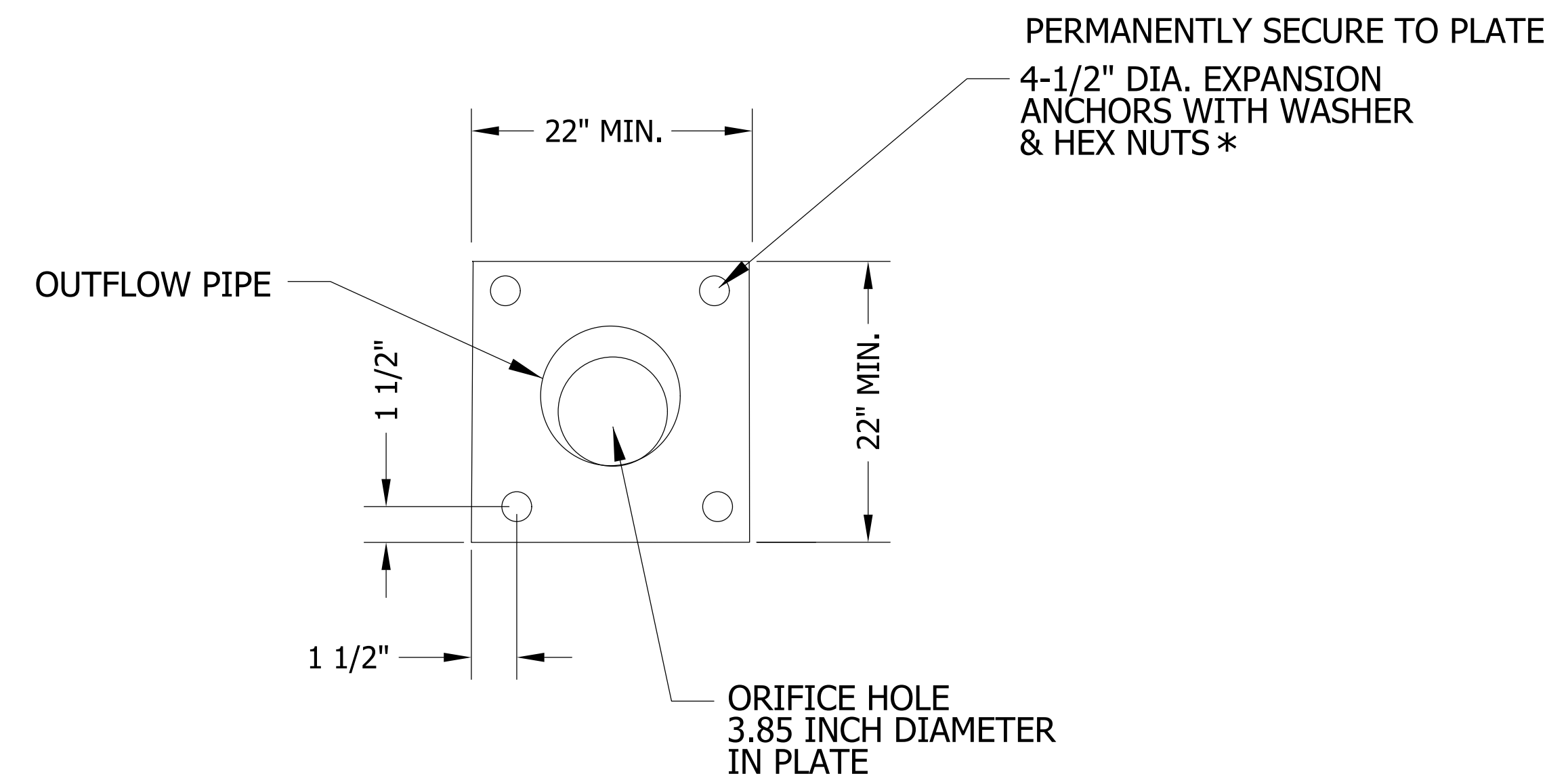


PLATE RESTRICTOR DETAIL: ELEVATION

* ANCHOR EMBEDMENT SHALL BE 3" MIN.


ISSUE FOR BID
JANUARY 8, 2025
REVISIONS

No	Date	Issue

CHECKED BY: JHA
DRAWN BY: JRR/JR

SHEET TITLE
DETAILS

SCALE IN FEET
1" = 40'



NORTH
SHEET NUMBER

C4.5

©2025 Hitchcock Design Group

A. REFERENCED SPECIFICATIONS

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
 * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 * VILLAGE OF LANSING MUNICIPAL CODE;
 * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
 * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

- THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO WMOJOBSTART@MWRD.ORG).
- THE VILLAGE OF LANSING ENGINEERING DEPARTMENT AND PUBLIC WORKS MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

- ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
- THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
- THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.
- THE VILLAGE OF LANSING BUILDING DEPARTMENT MUST BE NOTIFIED AT LEAST 2 (TWO) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED IMPROVEMENTS IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE VILLAGE OF LANSING. ALL WORK SHALL BE IN ACCORDANCE WITH THE VILLAGE OF LANSING CODE OF ORDINANCES.
- RECORD CONSTRUCTION DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE VILLAGE OF LANSING UPON COMPLETION OF THE UNDERGROUND WORK.

D. SANITARY SEWER

- THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		ASTM D-3212
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350	ASTM D-3261,F-2620 (HEAT FUSION)
	ASTM D-3035	ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC		ASTM D-3139
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

- ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE ¼ " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ¼ THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
- NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
- ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 - A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB WYE SADDLE OR HUB -TEE SADDLE.
 - REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 - WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
- ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
- ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
- EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
- A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCE'S SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE

E. EROSION AND SEDIMENT CONTROL

- THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
- ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 - UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 - ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
- MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
- TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
- ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
- VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
- STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
- ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.



22 E. Chicago Avenue
Suite 200A
Naperville, IL 60540
T 630.961.1787
hitchcockdesigngroup.com

PREPARED FOR Lan-Oak Park District

2550 178th Street
Lansing, IL 60438

PROJECT

Bock Park Phase One

17500 Lorenz Avenue
Lansing, IL 60438

CONSULTANTS
Civil Engineering
Civiltech Engineering, Inc.
30 N LaSalle St, Suite 3220
Chicago, Illinois 60602
T 630.735.7159

ISSUE FOR BID
JANUARY 8, 2025

REVISIONS

No	Date	Issue

CHECKED BY
JHA

DRAWN BY
JRR/JR

SHEET TITLE MWRD GENERAL NOTES

SCALE IN FEET
1" = 40'

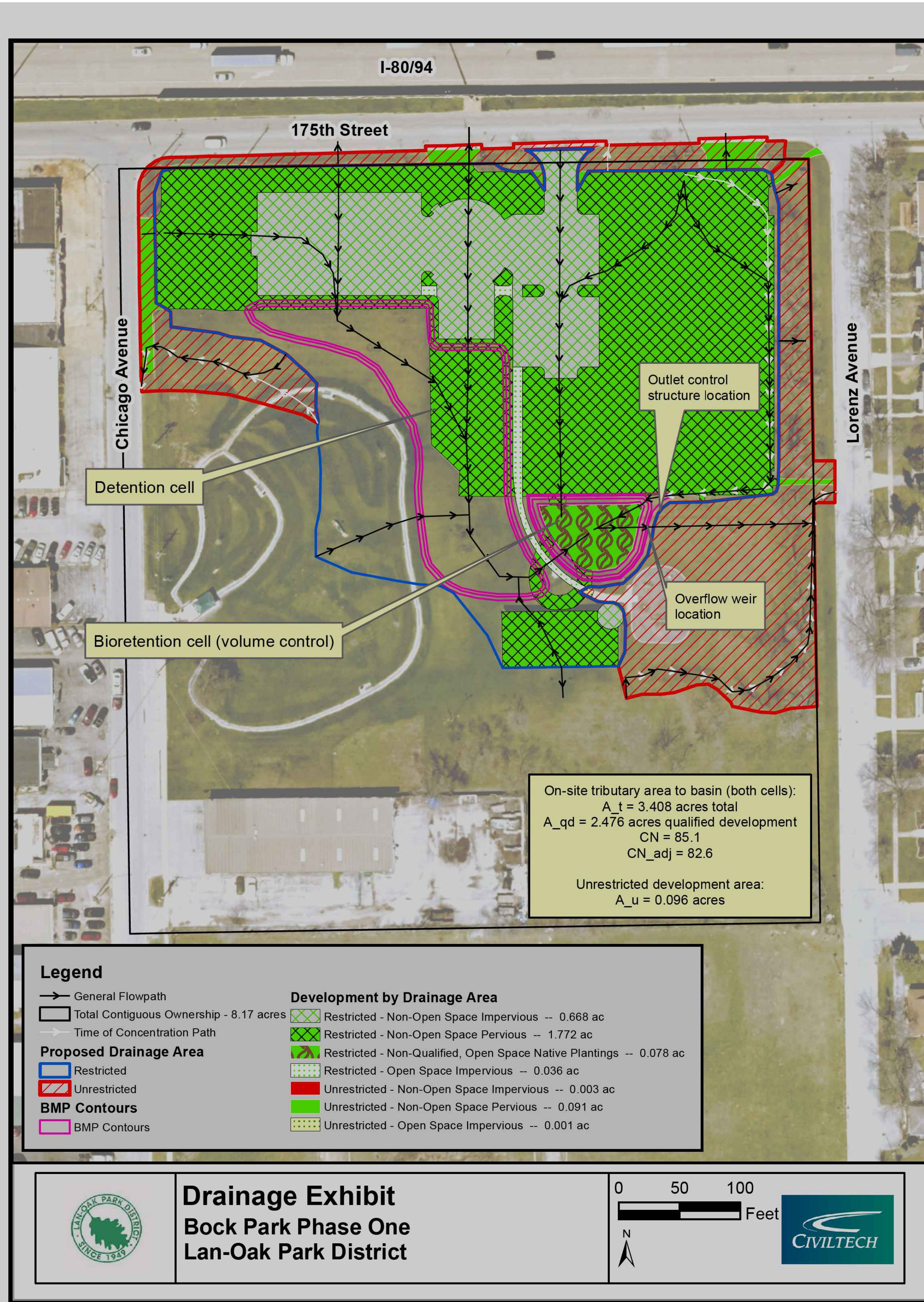


NORTH SHEET NUMBER



©2025 Hitchcock Design Group





DISTURBANCE BREAKDOWN					
INCLUDES ALL AREAS -- NOT BROKEN OUT BY RESTRICTED/UNRESTRICTED					
DESCRIPTION	AREA [AC]	PROPOSED COVERAGE	DISTURBANCE CLASSIFICATION	OPEN OR NON-OPEN	DEVELOPMENT TYPE DETAIL
REMOVAL OF IMPERVIOUS >> REPLACEMENT WITH IMPERVIOUS	0.014	IMPERVIOUS	MAINTENANCE ACTIVITY	N/A	N/A
REMOVAL OF PERVIOUS >> REPLACEMENT WITH TRAIL/WALKWAY <14' WIDE	0.014	IMPERVIOUS	QUALIFIED DEVELOPMENT	OPEN	OPEN SPACE - CONSTRUCTION OF A TRAIL/WALKWAY <14' WIDE
REMOVAL OF PERVIOUS >> REPLACEMENT WITH PERVIOUS	0.015	PERVIOUS	QUALIFIED DEVELOPMENT	NON-OPEN	NON-OPEN SPACE - PERVIOUS
REMOVAL OF IMPERVIOUS >> REPLACEMENT WITH PERVIOUS NATIVE PLANTINGS	0.017	PERVIOUS	NON-QUALIFIED DEVELOPMENT	OPEN	OPEN SPACE (NON-QUALIFIED) - IMPERVIOUS TO BECOME NATIVE PLANTING
REMOVAL OF PERVIOUS >> REPLACEMENT WITH IMPERVIOUS	0.022	IMPERVIOUS	QUALIFIED DEVELOPMENT	NON-OPEN	NON-OPEN SPACE - IMPERVIOUS
REMOVAL OF IMPERVIOUS >> REPLACEMENT WITH TRAIL/WALKWAY <14' WIDE	0.023	IMPERVIOUS	QUALIFIED DEVELOPMENT	OPEN	OPEN SPACE - CONSTRUCTION OF A TRAIL/WALKWAY <14' WIDE
REMOVAL OF PERVIOUS >> REPLACEMENT WITH PERVIOUS NATIVE PLANTINGS	0.061	PERVIOUS	NON-QUALIFIED DEVELOPMENT	OPEN	OPEN SPACE (NON-QUALIFIED) - PERVIOUS TO BECOME NATIVE PLANTING
REMOVAL OF IMPERVIOUS >> REPLACEMENT WITH IMPERVIOUS	0.649	IMPERVIOUS	QUALIFIED DEVELOPMENT	NON-OPEN	NON-OPEN SPACE - IMPERVIOUS
REMOVAL OF PERVIOUS >> REPLACEMENT WITH PERVIOUS	0.990	PERVIOUS	MAINTENANCE ACTIVITY	N/A	N/A
REMOVAL OF IMPERVIOUS >> REPLACEMENT WITH PERVIOUS	1.849	PERVIOUS	QUALIFIED DEVELOPMENT	NON-OPEN	NON-OPEN SPACE - PERVIOUS
SUM OF ALL DISTURBANCE [AC]	3.654				
SUM OF ALL QUALIFIED DEVELOPMENT [AC]	2.572				
SUM OF ALL QUALIFIED, IMPERVIOUS DEVELOPMENT [AC]	0.708				
SUM OF ALL NON-QUALIFIED DEVELOPMENT [AC]	0.078				
SUM OF ALL MAINTENANCE ACTIVITY [AC]	1.004				
SUM OF ALL QUALIFIED, NON-OPEN SPACE DEVELOPMENT [AC]	2.535		<< DETENTION TRIGGER IS 0.50 ACRES. THIS PROJECT TRIGGERS DETENTION.		
SUM OF ALL QUALIFIED, NON-OPEN-SPACE, IMPERVIOUS DEVELOPMENT [AC]	0.671		<< VOLUME CONTROL TRIGGER IS 0.10 ACRES. THIS PROJECT TRIGGERS VOLUME CONTROL.		
SUM OF ALL QUALIFIED DEVELOPMENT [AC]	2.572		<< RUNOFF TRIGGER IS 0.50 ACRES. THIS PROJECT TRIGGERS RUNOFF CONTROL.		

DEVELOPMENT INFORMATION	
WATERSHED PLANNING AREA	LITTLE CALUMET
DEVELOPMENT AREA [AC]	2.572
UNRESTRICTED AREA [AC]	0.096
UPSTREAM TRIBUTARY AREA	NONE
TAILWATER CONDITIONS	NONE
SITE CONSTRAINTS (VOLUME CONTROL)	NONE
SITE LIMITATIONS (DETENTION)	NONE
HYDROLOGIC SOIL GROUP (HSG)	D
LITTLE CALUMET RIVER RATE RESTRICTION [CFS/AC]	0.25
GROSS ALLOWABLE RELEASE RATE [CFS]	0.64
UNRESTRICTED RELEASE RATE [CFS]	0.18
NET ALLOWABLE RELEASE RATE [CFS]	0.46

MWRD SUMMARY

CURVE NUMBER CALCULATIONS

CN TRIBUTARY TO BASINS = 85.1
CN ADJUSTED = 82.6

TIME OF CONCENTRATION CALCULATIONS

MAXIMUM SHEET FLOW LENGTH USED = 100 FT
TC TRIBUTARY TO BASINS = 17.5 MINUTES

DETENTION AND RETENTION SUMMARY

DETENTION

- SURFACE DETENTION BOTTOM = 596.55 WEST DETENTION CELL, 596.25 EAST BIORETENTION CELL'

- SUBSURFACE DETENTION BOTTOM = 593.90'

- NWL = N/A'

- TAILWATER ELEVATION = N/A - FREE DISCHARGE

- HWL = 597.75 (BOTH CELLS)

- DETENTION VOLUME REQUIRED = 0.791 ACRE-FEET

- DETENTION VOLUME PROVIDED = 0.802 ACRE-FEET AT HWL OF 597.75

RETENTION

- RETENTION VOLUME REQUIRED = 0.059 ACRE-FEET

- RETENTION VOLUME PROVIDED = 0.059 ACRE-FEET'

NOTES

- BOTTOM OF SURFACE VOLUME CONTROL SECTION. THIS IS CREDITED TOWARDS DETENTION VOLUME PER WMO SECTION 5.4.3.
- SUBSURFACE VOLUME CONTROL SECTION EXTENDS FROM 593.90 (UNDERDRAIN INVERT) TO 596.25 (TOP OF MULCH SURFACE). PER WMO SECTION 5.4.3, THIS VOLUME CONTROL VOLUME IS CREDITED TOWARDS DETENTION VOLUME PER THE APPLICABLE VOID AND REDUCTION FACTORS.
- WEST DETENTION CELL IS DESIGNED AS A DRY-BOTTOM CELL AND DOES NOT HAVE A NORMAL WATER LEVEL. THE EAST CELL IS INTENDED TO TEMPORARILY HOLD STANDING WATER FOLLOWING RAINFALL EVENTS PRODUCING AT LEAST 1" OF RUNOFF FROM IMPERVIOUS SURFACES. FOLLOWING INITIAL DRAWDOWN OF THE DETENTION VOLUME, THE RETENTION VOLUME BEGINS WITH A SURFACE ELEVATION OF 596.55 AND DRAWS DOWN COMPLETELY WITHIN 48 HOURS.
- THE TOTAL PROPOSED NON-OPEN SPACE IMPERVIOUS ON THE PROJECT EQUALS 0.671 ACRES. A TOTAL OF 0.668 ACRES OF THE PROPOSED NON-OPEN SPACE IMPERVIOUS IS ROUTED TO THE BMP, REPRESENTING 99.6% OF THE REQUIRED AMOUNT TO BE ROUTED. THE 0.003 ACRES OF PROPOSED IMPERVIOUS THAT CANNOT BE ROUTED TO THE BMP DUE TO SITE CONSTRAINTS AMOUNTS TO A REQUIRED VOLUME OF 0.0003 ACRE-FEET THAT WOULD NOT BE ROUTED TO THE BMP. ROUNDED TO THE THOUSANDTH DECIMAL PLACE, THE TOTAL PROVIDED VOLUME CONTROL STILL EQUALS 0.059 ACRE-FEET, MEETING THE REQUIREMENT.

TOTAL DEVELOPMENT - FOR DETENTION CALCULATIONS			
SURFACE TYPE	AREA (ACRES)	AREA (MI)	CURVE NUMBER, CN (HSG D)
IMPERVIOUS*	0.708	0.0011063	98
PERVIOUS	1.864	0.0029125	80
TOTAL	2.572	0.0040188	85

*INCLUDES OPEN SPACE IMPERVIOUS.

TOTAL RESTRICTED DEVELOPMENT - FOR DETENTION CALCULATIONS; TRIB TO BMP			
SURFACE TYPE	AREA (ACRES)	AREA (MI)	CURVE NUMBER, CN (HSG D)
IMPERVIOUS*	0.704	0.0011020	98
PERVIOUS	1.772	0.0027690	80
TOTAL	2.476	0.0038700	85.1

*INCLUDES OPEN SPACE IMPERVIOUS.

UNRESTRICTED DEVELOPMENT AREAS			
UNRESTRICTED - 175TH		IMPERVIOUS: 6.3%	
SURFACE TYPE	AREA (ACRES)	AREA (MI)	CURVE NUMBER, CN (HSG D)
IMPERVIOUS	0.003	0.0000047	98
PERVIOUS	0.045	0.0000703	80
175TH SUBTOTAL	0.048	0.0000750	81.1

UNRESTRICTED - CHICAGO		IMPERVIOUS: 0%	
SURFACE TYPE	AREA (ACRES)	AREA (MI)	CURVE NUMBER, CN (HSG D)
IMPERVIOUS	0.000	0.0000000	98
PERVIOUS	0.036	0.0000563	80
CHICAGO SUBTOTAL	0.036	0.0000563	80

UNRESTRICTED - LORENZ		IMPERVIOUS: 8.3%	
SURFACE TYPE	AREA (ACRES)	AREA (MI)	CURVE NUMBER, CN (HSG D)
IMPERVIOUS	0.001	0.0000016	98
PERVIOUS	0.011	0.0000172	80
LORENZ SUBTOTAL	0.012	0.0000188	81.8

UNRESTRICTED - TOTAL		IMPERVIOUS: 4.2%	
SURFACE TYPE	AREA (ACRES)	AREA (MI)	CURVE NUMBER, CN (HSG D)
IMPERVIOUS	0.004	0.0000063	98
PERVIOUS	0.092	0.0001438	80
TOTAL	0.096	0.0001500	80.8



22 E. Chicago Avenue
Suite 200A
Naperville, IL 60540
T 630.961.1787
hitchcockdesigngroup.com

PREPARED FOR
Lan-Oak Park District

2550 178th Street
Lansing, IL 60438

PROJECT
Bock Park Phase One

17500 Lorenz Avenue
Lansing, IL 60438

CONSULTANTS
Civil Engineering
Civiltech Engineering, Inc.
30 N LaSalle St, Suite 3220
Chicago, Illinois 60602
T 630.735.7159

ISSUE FOR BID
JANUARY 8, 2025

No	Date	Issue

CHECKED BY
JHA

DRAWN BY
JRR/JR

SHEET TITLE
MWRD DRAINAGE EXHIBIT

SCALE IN FEET
1" = 40'

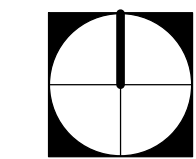


NORTH

SHEET NUMBER

C5.2

©2025 Hitchcock Design Group

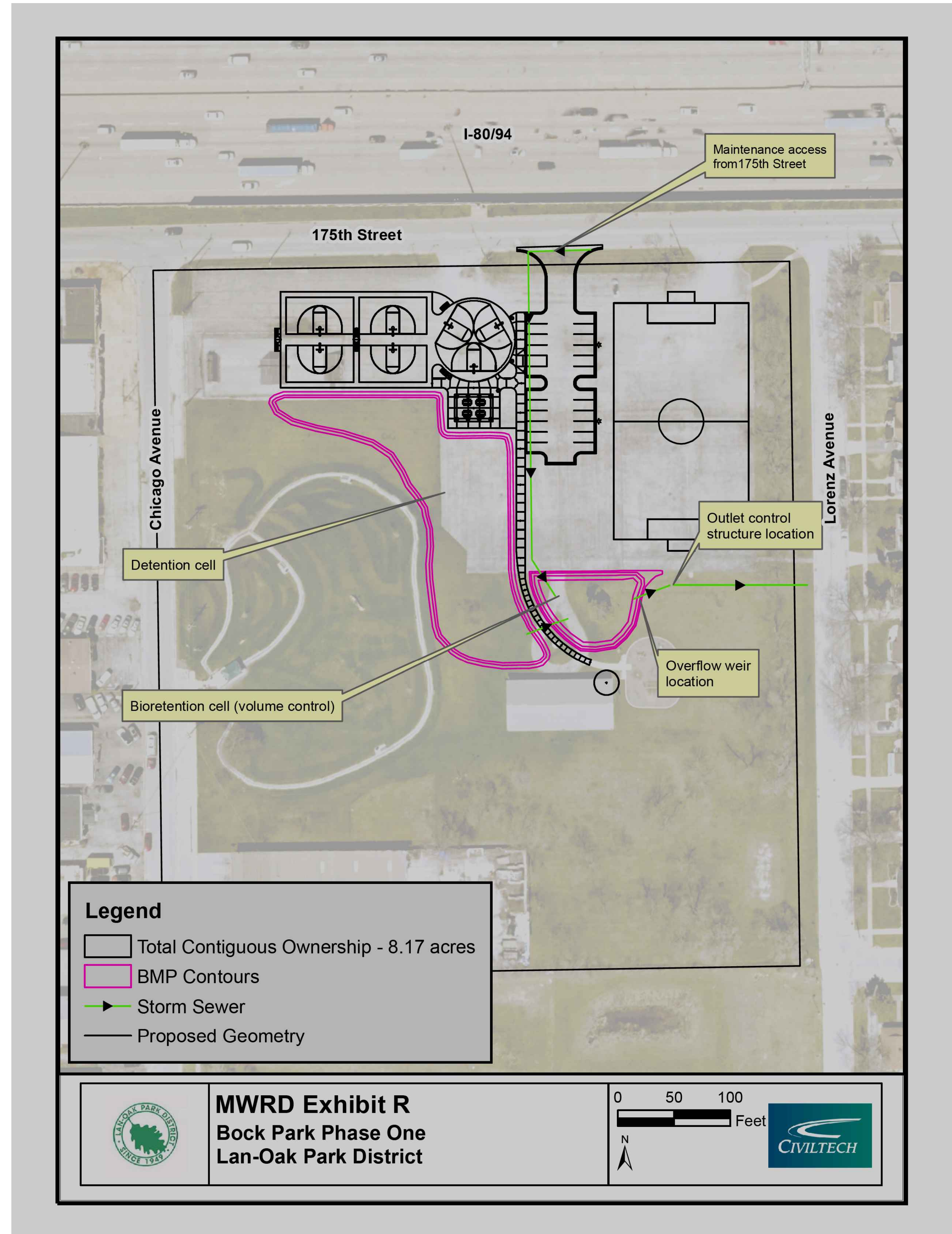


c:\msdcs\civtech\p\hessph\abramson\012245503903_Bldr.dgn

PROJECT SITE SUMMARY

- PROPERTY LEGAL DESCRIPTION: SECTION 30, TOWNSHIP 36N, RANGE 15E
- PROPERTY ADDRESS: 17500 LORENZ AVENUE, LANSING, IL 60438
- PROPERTY INDEX NUMBER: 30-30-407-003-0000
- TOTAL CONTIGUOUS OWNERSHIP: 8.170 ACRES
- CONSERVATION AREA/DEED RESTRICTED AREA: 0.000 ACRES

STORMWATER SUMMARY	REQUIRED [AC-FT]	PROVIDED [AC-FT]
VOLUME CONTROL	0.059	0.059
DETENTION VOLUME	0.791	0.802



NOTES:

1) THE VILLAGE OF LANSING, WITH FACILITIES AS SHOWN ON THIS EXHIBIT (EXHIBIT R) SHALL ASSUME RESPONSIBILITY FOR THE FOLLOWING PERPETUAL MAINTENANCE ACTIVITIES:

2) GENERAL

REGULAR INSPECTIONS AND ROUTINE MAINTENANCE OF GENERAL AREAS SHALL BE PERFORMED ON A MONTHLY OR AS-NEEDED BASIS. SPECIFIC ITEMS OF CONCERN INCLUDE:

- LITTER AND DEBRIS SHALL BE CONTROLLED.
- LANDSCAPED AREAS SHALL BE MAINTAINED WITH REGULAR MOWING AND RESTORED WITH APPROPRIATE SEEDING/ VEGETATION AS NECESSARY.
- ACCUMULATED SEDIMENT SHALL BE DISPOSED OF PROPERLY, ALONG WITH ANY WASTES GENERATED DURING MAINTENANCE OPERATIONS.
- RIPRAP AREAS SHALL BE REPAIRED WITH THE ADDITION OF NEW RIPRAP, AS NECESSARY, OF SIMILAR SHAPE AND SIZE.
- ROADS SHALL BE SWEEPED, VACUUMED AND/OR WASHED ON A

3) VOLUME CONTROL FACILITY

ROUTINE INSPECTIONS AND MAINTENANCE OF VOLUME CONTROL FACILITIES SHALL BE PERFORMED BY THE VILLAGE ON A YEARLY OR AS-NEEDED BASIS. SPECIFIC ITEMS OF CONCERN INCLUDE:

- FACILITY SHALL BE INSPECTED YEARLY USING THE MONITORING WELLS TO VERIFY THE SYSTEM IS FUNCTIONING PROPERLY.
- SURFACE OF PERMEABLE PAVEMENT SHALL BE CLEANED WITH LOW POWER PRESSURE WASHER.
- ACCUMULATED SEDIMENT FROM SURFACE SHALL BE VACUUMED OUT AND DISPOSED OF PROPERLY.
- APPROPRIATE SIGNAGE SHALL BE REPAIRED IF DAMAGED OR

4) STORMWATER COLLECTION SYSTEM

THE VILLAGE SHALL PERFORM MONTHLY INSPECTIONS OF ALL COMPONENTS OF THE STORMWATER COLLECTION SYSTEM. THE MONTHLY INSPECTION SHALL OCCUR BETWEEN MARCH AND NOVEMBER AND INCLUDE THE FOLLOWING SPECIFIC AREAS OF CONCERN:

- STORM INLETS/MANHOLES**
- REMOVE ACCUMULATED LEAVES AND OTHER DEBRIS FROM GRATES.
 - RESET COVERS/LIDS ON AS-NEEDED BASIS.
 - REMOVE ACCUMULATED SEDIMENT FROM MANHOLE BOTTOM WHEN 50% OF SUMP IS FILLED.

- STORM SEWERS/CULVERTS**
- VISUALLY INSPECT PIPES BY REMOVING MANHOLE LIDS, MAKE REPAIRS AS NECESSARY.
 - STORM SEWERS AND CULVERTS SHALL BE CHECKED FOR SILTATION DEPOSITS AT INLETS, OUTLETS, AND WITHIN THE CONDUIT, CLEAN OUT AS NECESSARY.
 - RESTORE RIPRAP AT OUTFALLS IF EROSION OBSERVED.
 - RESTORE RIPRAP AT OUTFALLS.
 - REPLANT AND RESEED ANY ERODED AREAS.

- OVERLAND FLOW ROUTES (DITCHES/SWALES)**
- ANNUAL VISUAL INSPECTIONS SHALL BE PERFORMED THAT VERIFY THE DESIGN CAPACITY OF THE OVERLAND FLOW ROUTES IS MAINTAINED, THE SLOPE AND CROSS-SECTIONAL AREA OF THE DITCH/SWALE SHALL BE VERIFIED DURING THIS INSPECTION.
 - REMOVE ANY OBSTRUCTIONS THAT HAVE BEEN PLACED IN THE
 - SEED AND SOD ANY ERODED AREAS.
 - RESTORE RIPRAP AS NECESSARY.
 - REGRADE TO PROVIDE POSITIVE DRAINAGE AS NECESSARY.
 - REGULAR MOWING TO CONTROL VEGETATION.

5) VEGETATED AREAS

- NEED FOR PLANTING, RESEEDING, OR SODDING. SUPPLEMENT ALTERNATIVE NATIVE VEGETATION IF A SIGNIFICANT PORTION HAS NOT ESTABLISHED (50% OF THE SURFACE AREA AFTER SECOND GROWING SEASON). RESEED WITH ALTERNATIVE NATIVE GRASS SPECIES IF ORIGINAL GRASS COVER HAS NOT SUCCESSFULLY ESTABLISHED.
- EVIDENCE OF GRAZING, MOTORBIKES, OR OTHER VEHICLES, REPAIR.
- CHECK FOR INVASIVE VEGETATION, REMOVE WHEN POSSIBLE.
- REGULAR MOWING TO CONTROL VEGETATION; IT IS RECOMMENDED THAT NATIVE VEGETATION REMAIN UNMOWN.
- DEAD OR DAMAGED NON-NATIVE GRASSY AREAS - REPAIR WITH SEEDING WITH FERTILIZATION OR SEEDING TO MATCH.

6) QUALIFIED SEWER CONSTRUCTION

- PERFORM MANHOLE INSPECTIONS ONCE EVERY FIVE YEARS, MAKE REPAIRS AS NECESSARY.
- PERFORM SEWER INSPECTIONS ONCE EVERY FIVE YEARS, MAKE REPAIRS AS NECESSARY.
- PERFORM REGULAR CLEANING SO THAT EACH SEWER SEGMENT IS CLEANED ONCE EVERY FIVE YEARS.
- REMOVE ANY OBSTRUCTIONS PLACED IN MAINTENANCE EASEMENTS THAT MAY IMPEDE MAINTENANCE EQUIPMENT ACCESS.



22 E. Chicago Avenue
Suite 200A
Naperville, IL 60540
T 630.961.1787
hitchcockdesigngroup.com

PREPARED FOR
Lan-Oak Park District

2550 178th Street
Lansing, IL 60438

PROJECT
Bock Park Phase One

17500 Lorenz Avenue
Lansing, IL 60438

CONSULTANTS
Civil Engineering
Civiltech Engineering, Inc.
30 N LaSalle St, Suite 3220
Chicago, Illinois 60602
T 630.735.7159

ISSUE FOR BID
JANUARY 8, 2025
REVISIONS

No	Date	Issue

CHECKED BY: JHA DRAWN BY: JRR/JR

SHEET TITLE
MWRD EXHIBIT R

SCALE IN FEET
1" = 40'

NORTH SHEET NUMBER

C5.3

©2025 Hitchcock Design Group



c:\home\civiltech\p\lansing\lansing\012245539003_Bock.dgn