

Title **Prairie Grove Park** 02/26/2024

by Timothy Howe in Member District ADA Project

id. 45684558

Request

530 Bernard Dr Buffalo Grove, Illinois 60089 **United States** 8478502163

thowe@bgparks.org

Original Submission

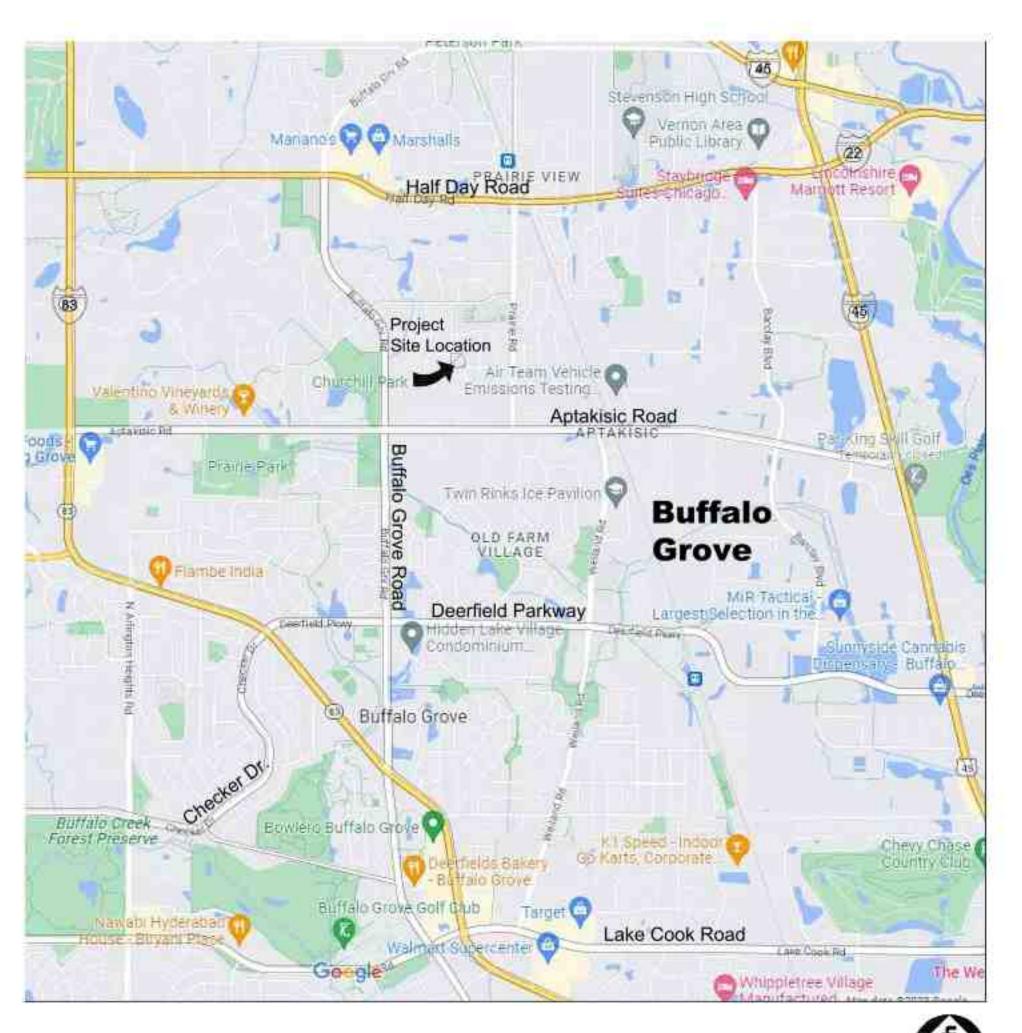
02/26/2024

| Score | n/a |
|---|---|
| Name | Tim Howe |
| Job Title | Director of Parks and Planning |
| E-mail Address | thowe@bgparks.org |
| Phone Number | 8478502100 |
| Park District | Buffalo Grove |
| Project Location | Prairie Grove Park |
| Project Status | New Addition |
| Project Type | Recreation Facilities and Amenities Routes and Surfaces |
| Recreation Facilities and Amenities- select a Project Category below: | Playgrounds- Play Components |
| Routes and Surfaces- select a Project Category below: | Accessible Routes- Means of Egress Athletic Surfaces Curb Ramps Play Surfaces Sidewalks Walking Surfaces |
| Benefits of the Project | OSLAD project that is renovating an old playground. Design services. Adding pour in place rubber surfacing for playground. New pathways around the park. New shelter with accessible tables. Half basket court, one tennis court, one pickleball court. |

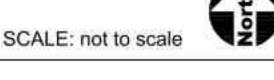
| Items that will become ADA Compliant | Pathways throughout the park. Accessible playground, basketball court, tennis court, pickleball court, and shelter. ADA picnic tables and benches. | | | | |
|---|---|--|--|--|--|
| The project is designed or constructed, or applies human resources, to comply with: | The 2010 Standards for Accessible Design ASTM F 1951 Standard for Accessible Playground Surfaces PROWAG and the Shared Use Paths Guideline in Development | | | | |
| Upload Project Relat | ted Files, Photos, Videos or Audio | | | | |
| Prairie_Grove_Play | /ground_ADA.pdf | | | | |
| Upland_Design_Prairie_Grove.pdf | | | | | |
| Prairie_Grove_Bid. | Prairie_Grove_Bid.pdf | | | | |
| Prairie_Grove_Dra | wing.pdf | | | | |
| Budget Table for AD | A Related Expenses | | | | |
| Pudget Table view | | | | | |

Budget Table.xlsx

| ADA Dollars Requested | 423909.6 |
|-----------------------------------|--|
| Notes related to requested amount | Total cost of project is 863,917 which includes design/construction administration |



LOCATION MAP



LANDSCAPE ARCHITECT:



uplandDesign Itd Landscape Architecture & Park Planning

1229 N North Branch St. Ste 220A Chicago, Illinois 60608 24042 Lockport St, Plainfield, Illinois 60544 815-254-0091 www.uplandDesign.com

IL License 060-007797





Village of Buffalo Grove **Engineering Department** 51 Raupp Boulevard Buffalo Grove, IL 60089 Telephone: (847) 459-2532

Prairie Grove Park OSLAD Development

2020 Olive Hill Drive Buffalo Grove, Illinois 60089



Buffalo Grove Park District 530 Bernard Drive Buffalo Grove, IL 60089

Partially Funded by Illinois Department of Natural Resources OSLAD Grant No. OS 22-2166

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- Construction Details

REVISIONS

| ISION #1 | | 05JULY20 |
|--------------|---|----------|
| | | |
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ORIGINAL ISSUE DATE Issue For Permit 07APRIL2023

PROJECT NUMBER 1103

PROJECT NAME

Prairie Grove Park OSLAD Development

SHEET TITLE

Title Sheet

SHEET NUMBER

Call Before You Dig

ONE CALL SYSTEM

800.892.0123

1.0

GENERAL NOTES: EXISTING CONDITIONS & REMOVALS

- The Contractor is to locate all utilities, public and private, prior to beginning construction.
 Contractor will be responsible for any damages to utilities caused by their work. Contact
 J.U.L.I.E. 72 hours prior to construction at 1-800-982-0123 or (811) for location of utilities
 and contractor shall be responsible for protection of the same.
- Site conditions are shown based upon available information, contractor to verify all existing conditions prior to bidding.
- 3. The contractor shall be responsible for the protection of all private utilities even though they may not be shown on the plans. Any utility damaged during the construction shall be repaired or replaced to the satisfaction of the Owner at the contractor's expense. No tree shall be planted within 10 lateral feet of any underground waterline, sewer line, transmission line or other utility.
- Contours and elevations shown hereon are referenced to the North American vertical datum of 1988 (navd88)
- A Topographic Survey was completed for the Owner by:
- Engineering Resource Associates 3S701 West Avenue
- Warrenville, Illinois 60555 Phone: 630.393.3060
- The Contractor shall walk the site prior to submitting a bid to be fully familiar with site conditions.
- The Contractor shall protect and preserve all section, property or survey reference markers.
- Tree Protection Fence to be installed as shown on plans and details prior to beginning construction. (incidental to cost). Do not drive, store equipment or materials within dripline of existing trees that are to be saved. Hold necessary disturbance to a minimum.
- Contractor will be held responsible for damage to items not scheduled for removal.
- Contractor shall repair or replace all damaged sidewalks, curbs or paving to remain in place that were damaged as a result of work stated in contract documents.
- No excavations are to be left open to foul weather, rain, snow, etc. which would necessitate further excavation and additional sub grade materials.
- Work site safety is the responsibility of the Contractor.
- Vehicular Construction access shall be at one location to minimize damage. Construction access shall be approved by the Owner's representative.
- Construction Limits: Construction Limits are as noted on plans. Do not store equipment or stockpile materials outside of construction limits. Any areas disturbed as a result of construction shall be restored to lawn or other surface by contractor to match pre-construction condition.
- Topsoil may be stockpiled for redistribution as needed. Excess topsoil, debris and plant material to be removed off site and disposed of legally.
- Construction fence shall be installed prior to beginning construction. Construction fence to be free standing chainlink per plans. (incidental to contract).
- Place erosion control measures as required to eliminate sedimentation into non-construction areas and as shown on plans and details prior to beginning construction.
- 18. Before beginning work at the site and throughout the course of the work contractor to inspect and verify the location and condition of every item affected by the work under this contract and report discrepancies to the Owner's Representative before beginning work.
- 19. Should discrepancies appear among the contract documents or between the contract documents and existing conditions, the contractor shall request an interpretation from the Owner's Representative before bidding. If the contractor fails to make such requests, it is presumed that both provisions were included in the bid, and the Owner's Representative shall determine which of the conflicting requirements shall govern. The contractor shall perform the work at no additional cost to the Owner in accordance with the Owner's Representative determination. Where conflicts exists between or within the contract documents between and applicable standards, codes, ordinances or manufacturers recommendations, and clarification has not been requested from the Owner's Representative prior to bidding as provided for above, the more stringent or higher quality standard shall prevail. Large scale drawings shall take precedence over small scale drawings, figured dimensions on the drawings over scaled dimensions and noted material over graphic representations.
- 20. The contractor shall provide all work and materials which any section or part of the drawings, specifications or conditions require them to provide, regardless of whether such requirement is or is not faithfully repeated in other parts of the documents thereof to which the provisions might be appropriate.
- 21. All necessary site work permits will be obtained by Owner. Contractor and all subcontractors shall register and pay associated fees to the Building Department. Contractor is responsible for following permit requirements including coordination of inspections and/or reinspections and associated fees.
- Contractor shall follow all permit requirements as part of the project.

GENERAL NOTES: LAYOUT

- It is the responsibility of the Contractor to perform layout of all project elements and points for review by Owner prior to construction. (This work is considered incidental to the project and not paid as a separate bid item).
- The contractor shall be responsible for all materials and quantities as required to complete
 the work in accordance with the plans and specifications. The contractor will notify the
 Owner's Representative in writing of any discrepancies or changes required to complete the
 work before any action may be taken. All changes or change orders must be approved by
 the Owner's Representative and Owner before any changes are executed.
- Contractor shall follow Village of Buffalo Grove permit requirements as part of the project.
- Contractor shall confirm that all equipment use/safety zones specified by play equipment manufacturer are adhered to.
- All play equipment footings shall meet manufacturers specification for footing depth and width.

REFERENCED SPECIFICATIONS AND CODES

- The Standard Specifications for Road and Bridge Construction (SSRBC), latest edition adopted by the Illinois department of Transportation, and all amendments thereto the design manual, highway standards, and the culvert manual, also prepared by the Illinois Department of Transportation.
- The Americans with Disabilities Act and the Illinois Accessibility Code.
- The Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control, and IEPA Standards and Specifications for Soil Erosion and Sedimentation Control.
- 4. U.S. Soil Conservation Service Field Engineering Handbook
- All codes and ordinances of the Village of Buffalo Grove, United States Army Corp of Engineers, Illinois Department of Natural Resources, Lake County Soil and Water Conservation Districts, Lake County, and all agencies having jurisdiction.
- All requirements of the Occupational Safety and Health Administration.
- The cited standard specifications, codes and permits, with these construction plans and details, are all to be considered part of the work, incidental items or accessories necessary to complete this work may not be specifically noted but are considered a part of these improvements.
- In case of conflict, the more restrictive provision shall apply.

GENERAL NOTES: DIMENSION

- 1. Layout of equipment is to center of post.
- Layout play equipment with safety zones to be staked by the Contractor for review by Owner's Representative prior to play equipment installation.
- Paving radii shall be formed completely and shall smoothly transition into tangents and adjoining lines. Dimensions are to face of curb and edge of pavement unless otherwise
- Dimensions are in feet or degrees. Dimensions are perpendicular & parallel unless otherwise
- Contractor shall perform all construction layout for the project. Contractor will be provided with an electronic file in AutoCAD format to assist with layout. Neither the Owner nor their representative shall be responsible for setting additional layout points.

GENERAL NOTES: LANDSCAPE

- Notes indicated on grading plans shall pertain to landscape plans. Final grade of planting beds shall be as per grading plan.
- The landscape contractor shall be responsible for making themselves familiar with all underground utilities and structures.
- All existing plant material and trees shall be saved and protected unless otherwise noted.
 Contractor to protect new and existing trees and landscaping from damage and shall restore all areas disturbed as a result of construction.

 Plant material shall be expedied from Northern Illinois surgest stack, shall be due the planting.
- Plant material shall be supplied from Northern Illinois nursery stock, shall be dug the planting season it is installed, and shall conform to the American Association of Nurseryman's standards.
- Plant material shall be size and type specified. Substitution of plant material shall be on a case by case basis and approved in writing by the Owner's Representative. In no case shall plant material be smaller than indicated in the plans.
- Do not willfully proceed with plantings as designed when it is obvious that obstructions and/or grade differences exist that may not have been known during the design process.
 Such conditions shall be immediately brought to the attention of the Owner's Representative.
 All plant material shall be inspected and approved by the Owner's Representative prior to the
- Installation of any and all plant material.
 Plant locations shall be flagged in field with Owner's Rep. Final location of all plant material shall be subject to approval of the Owner's Representative prior to digging any holes. The landscape contractor is responsible for providing Owner's Representative with 48 hour
- Plants shall be watered on the day they are planted and maintained with watering until final acceptance of the project.
- Apply a pre-emergent as per manufacturer's specification prior to installing mulch.
- Beds and tree rings (6' diameter) shall have 3" of hardwood shredded mulch applied and a
 4" deep spade edge at lawn. Trees that are not located in beds, shall have a tree ring.
 Landscape plant material shall be guaranteed for 12 months from final acceptance. Any
 - plant 1/3 dead or more shall be replaced under the guarantee.

 13. Contractor to prepare landscape beds by roto-tilling 2" of Mushroom Compost into new beds.
- Do not add compost nor roto-till within drip line of existing trees.

 14. Lawn Seeding shall be under favorable weather conditions, and shall follow dates in
- specification.

 15. Turf mixes shall be installed and lawn established at all disturbed areas.
- 16. Do not overseed into mulch beds and paving.

minimum advance notice prior to planting.

Contractor shall restore all areas disturbed as a result of construction.

SITE AMENITIES SCHEDULE

| (ey | Item | Color | Quantity | Model | Manufacturer | - 204-1-10-1-1 | |
|-----|---|---|----------|--|-------------------------|--|--|
| A1 | 65° ZipVenture | Blue | 1 | 65' Zip Line | Burke | Play Illinois 844 222-9990 Purchase by owner, and install by contractor | |
| A2 | 5-12 Play Structure | Peacock, Blue, Limon, | 1 | Barn Cliff Climber | | | |
| | | Gray | | Custom Number: 178483A | | | |
| АЗ | 5-12 Welcome Sign | Peacock Red and Yellow Panel. | 1 | Model Number: 182503C | | | |
| A4 | DigiRider Chicken | Black Spring | t | Model Number: 233061B | | | |
| A5 | DigiRider Horse | Brown Panel, Black Spring | 1 | Model Number: 233060B | | DUMAGNO AND SUBSTRUCTION SHAPPING THE STATE | |
| В1 | Farmstead Cornstalk Climber | Blue | i | Farmstead Cornstalk Climber Custom Number: CP000197A | Landscape Structures | Nutoys Leisure Products 800-526-6197 Purchase by owner, and install by contractor | |
| B2 | Tractor Spring Climber | Blue, Limon | 1 | Tractor Spring Climber Custom Number: CP000212A | | | |
| С | Swings - 5 Unit | Cross bar: Peacock, Clamps: Limon, Posts: Peacock | 1) | 2 Belt Seats (174018A), 1 Friendship Swing (237296A), 2 Full Bucket (176038A) | | | |
| D | Community Shelter | Post Color: Surrey Beige Roof Color: Roman Blue Tounge and Groove Stain Color: Calvary | 1 | #DB178: 25x35 Eastern Skyline - TGSS | Poligon | Imagine Nation, LLC 847.640.0904 www.imagineparks.com Purchase by owner, and install by contractor | |
| E1 | Tennis Post, Net and Anchor | Post: Black | 1 Sets | Model Number: 63034SS; XS Tennis Posts, 2-7/8" OD Ground Sleeves Center Strap and Anchor Net TN-45, ground sleeves aluminum, stainless steel gears | Douglas | Douglas 800-553-8907 www.douglas-sports.com | |
| E2 | Pickelball Post, Net, and anchor | Post: Black | 1 Set | Model Number: 63075SS, Premier XS-36 Tennis Posts, 2-7/8" OD Ground Sleeves aluminum, gears stainless steel, Center Strap and Anchor Not TN-45 | Douglas | Douglas 800-553-8907 www.douglas-sports.com | |
| F | Basketball Post, Backboard, Goal, & Net | Post: Galvanized, Powder Coated Black | 1 | Model Number: 770-RS-FR, Basketball System - Titan Galvanized Steel, Goose Neck upright with 72" steel board, heavy duty flex white and orange net and goal | Jaypro Sports | Nutoys Leisure Products 800-526-6197 | |
| G | Interpretive Sign | Post: Black Powdercoat | 1 | Single Pedestal, Surface Mount, 45 degree angle, 16"x20" Mount Plate | iZone Imaging | Artwork to be provided by owner, contractor to purchase and install sign and footing. | |
| н | Bike Fix-it Station | Powder Coated Black | 4. | Bike Hanging Hook, Powder, Air Kit Prime; Fixit Mount, Rev. B | Dero | | |
| Į | Bike Rack | Blue | 3 | Bike Rack 292, Surface Mount S-2 | Dumor | | |
| J1 | ADA Picnic Table | SB6, ARC4 Sealer | 2 | Sycamore Picnic Table; Model Number: T7384, 84* Length, Surface Mount | Doty & Sons | | |
| J2 | Picnic Table | SB6, ARC4 Sealer | :4 | Sycamore Picnic Table, Model Number: T7300, 72" Length, Surface Mount | Doty & Sons | Purchase by owner, and install by contractor | |
| K | Bench | Blue | 6 | RI93-120-6, 6' Curved Bench with 120' Radius, surface mount | DuMor | | |
| L1 | Litter Receptacle | Black | 4 | 102-32SM, surface mount | DuMor | | |
| L2 | Litter Recycle | Black | 4 | 102-32SM, surface mount | DuMor | | |
| М | Game Table | SB6, ARC4 Sealer | 1 | T6205, surface mount | Doty & Sons | | |
| N | Fabric Shade - Alternate #1 | ProShield Color: Peacock; Shade Fabric Color: Metallic Silver | 1 | Skyways Cantilever Single Post Pyramid 10'x10' Shade 10' Height Model Number: 237672B, direct bury | Landscape Structures | Nutoys Leisure Products 800-526-6197 | |



530 Bernard Drive Buffalo Grove, Illinois 60089 Phone: 847-850-2100

PROJECT

Prairie Grove Park OSLAD Development

2020 Olive Hill Drive Buffalo Grove, Illinois 60089

PROJECT TEAM



Plainfield, Illinois 815-254-0091

SURVEYOR / CIVIL ENGINEER
Engineering Resource Associates
3S701 West Avenue, Suite 150
Warrenville, Illinois 60555

IL License 184-001186

REVISIONS

| PERMIT REVISION #1 | 05JULY202 |
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| | PENWIT REVISION #1 213 |

ORIGINAL ISSUE DATE

Issue For Permit

PROJECT NUMBER

1103

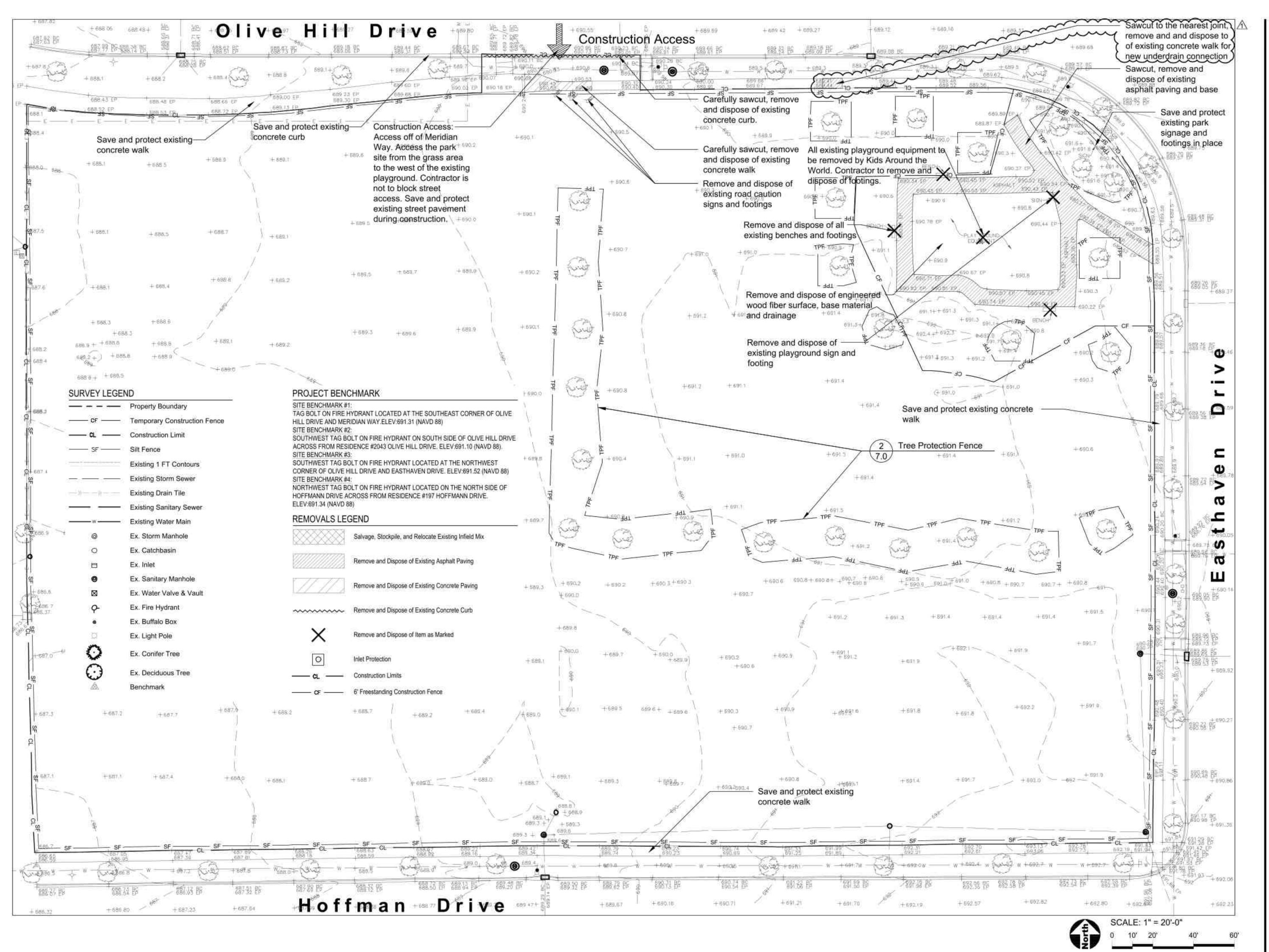
SHEET TITLE

General Notes

SHEET NUMBER

1.1

04APRIL2023





PROJECT

Prairie Grove Park OSLAD Development

2020 Olive Hill Drive Buffalo Grove, Illinois 60089

PROJECT TEAM



Landscape Architecture & Park Planning Chicago, Illinois 312-350-4088 Plainfield, Illinois 815-254-0091 uplandDesign.com

SURVEYOR / CIVIL ENGINEER Engineering Resource Associates 3S701 West Avenue, Suite 150 Warrenville, Illinois 60555 IL License 184-001186

REVISIONS

| AJ/MB | PERMIT REVISION #1 | 05JULY2023 |
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04APRIL2023

ORIGINAL ISSUE DATE

Issue For Permit

PROJECT NUMBER

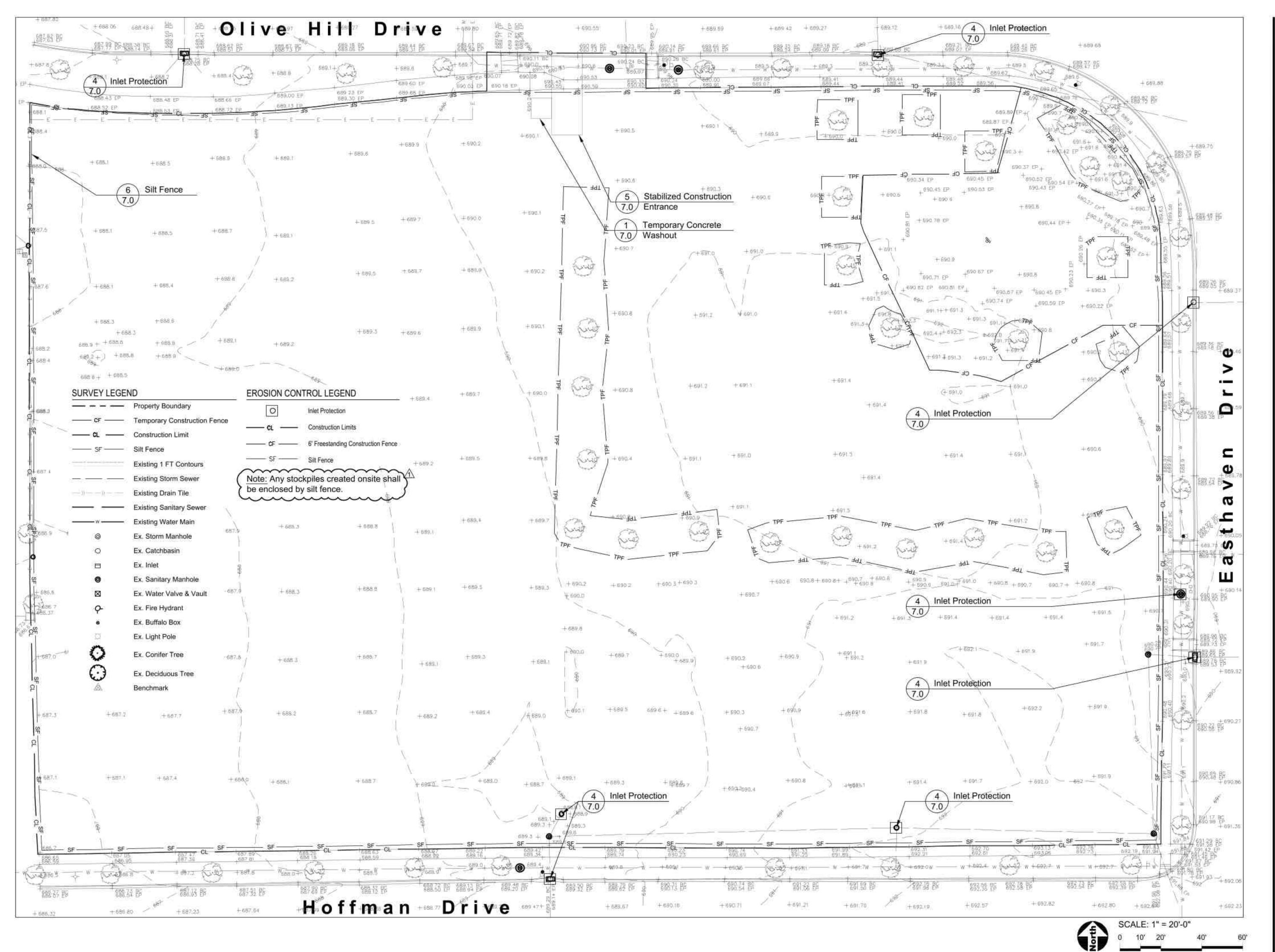
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SHEET TITLE

Existing Conditions & Removals Plan

SHEET NUMBER

2.0



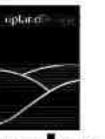


PROJECT

Prairie Grove Park OSLAD Development

2020 Olive Hill Drive Buffalo Grove, Illinois 60089

PROJECT TEAM



uplandDesign Itd

Landscape Architecture & Park Planning Chicago, Illinois 312-350-4088 Plainfield, Illinois 815-254-0091 uplandDesign.com

SURVEYOR / CIVIL ENGINEER Engineering Resource Associates 3S701 West Avenue, Suite 150 Warrenville, Illinois 60555 IL License 184-001186

REVISIONS

| AJ/MB | PERMIT REVISION #1 | 05JULY202 |
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04APRIL2023

ORIGINAL ISSUE DATE

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PROJECT NUMBER

1103

SHEET TITLE

Stormwater Pollution Prevention Plan

SHEET NUMBER

2.



STORMWATER POLLUTION PREVENTION PLAN

GENERAL NOTES

- AT LEAST FIVE WORKING DAYS PRIOR TO THE COMMENCEMENT OF ALL PHASES OF WORK.
 THE CONTRACTOR SHALL NOTIFY THE FOLLOWING:
 CITY OF BUFFALO GROVE; (847) 856-2160
 BUFFALO GROVE PARK DISTRICT
- UTILITY INFORMATION IS BASED UPON FIELD MEASUREMENTS AND BEST AVAILABLE RECORDS; FIELD DATA IS LIMITED TO THAT WHICH IS VISIBLE AND CAN BE MEASURED. THIS DOES NOT PRECLUDE THE EXISTENCE OF OTHER UNDERGROUND UTILITIES.
- 3. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. (1-800-892-0123) 48 HOURS PRIOR TO ANY EXCAVATION WORK TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES.
- 4. EXCEPT WHERE MODIFIED BY THE CONTRACT DOCUMENTS, ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING DOCUMENTS: "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN THE STATE OF ILLINOIS". ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS". LATEST EDITION. "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION CONTROL AND SEDIMENTATION CONTROL IN ILLINOIS". NORTHEASTERN ILLINOIS SOIL EROSION AND SEDIMENTATION CONTROL STEERING COMMITTEE, ILLINOIS PLUMBING CODE, LATEST EDITION, AND VILLAGE OF BUFFALO GROVE "MUNICIPAL CODE".
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC. "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AS ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION, SHALL BE CONSULTED. APPROPRIATE CONTROL METHODS SHOULD BE APPLIED TO THE SPECIFIC SITUATIONS AND TYPES OF CONSTRUCTION OPERATIONS BEING PERFORMED.
- UNLESS WRITTEN AUTHORIZATION IS OBTAINED FROM THE CITY ENGINEER, ALL OPENINGS IN ANY PAVEMENT OR TRAVELED WAY SHALL BE BACKFILLED PRIOR TO THE END OF THE WORKING DAY.
- 7 THE CONTRACTOR SHALL ESTABLISH THE NECESSARY PERFORMANCE BONDS REQUIRED. PERMITS SHALL BE OBTAINED FROM ALL OUTSIDE GOVERNMENTAL AGENCIES HAVING JURISDICTION PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE MOST RECENT SET OF THE "APPROVED" FINAL ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION.
- 9. THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE SAME.
- THE CONTRACTOR SHALL RESTORE OFF-SITE SURFACES TO ORIGINAL CONDITION IF DAMAGED BY CONSTRUCTION.
- THE CONTRACTOR IS TO PROVIDE THE CITY ENGINEER WITH RECORD DRAWINGS OF ALL UTILITIES SHOWING LOCATIONS OF ALL SEWER PIPE, MAINS, SERVICE STUBS, AND STRUCTURES.
- 12. THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO, AND THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO PERFORM OR FURNISH THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 13. THE ENGINEER WARRANTS THE DESIGN, RECOMMENDATIONS, AND SPECIFICATIONS TO HAVE BEEN PROMULGATED ON CONDITIONS GENERALLY ENCOUNTERED WITHIN THE INDUSTRY, THE ENGINEER ASSUMES NO RESPONSIBILITY WHATSGEVER, WITH RESPECT TO THE DESIGN RECOMMENDATIONS AND SPECIFICATIONS, FOR COMPLEX OR UNUSUAL SOIL CONDITIONS ENCOUNTERED ON THE PROJECT. IT SHALL BE THE OWNER'S/BIDDER'S RESPONSIBILITY TO ASCERTAIN THE EXACT NATURE OF SUBSURFACE CONDITIONS PRIOR TO THE CONSTRUCTION OF THE IMPROVEMENT.
- 14. ALL TRENCHES CAUSED BY THE CONSTRUCTION OF SEWERS, WATERMAINS, WATER SERVICE PIPES AND IN EXCAVATIONS AROUND CATCH BASINS, MANHOLES, INLETS, AND OTHER APPURTENANCES WHICH OCCUR WITHIN TWO FEET OF THE LIMITS OF EXISTING AND PROPOSED, IMPROVEMENTS, SIDEWALKS, AND CURB AND GUTTERS SHALL BE BACKFILLED WITH TRENCH BACKFILL (AS DEFINED IN SECTION 208 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.)

STORM SEWER

- REINFORCED CONCRETE PIPE STORM SEWER SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM C-76 CLASS III.
- POLYVINYL CHLORIDE (PVC) PIPE SHALL CONFORM TO ASTM D3034, TYPE PSM. THE MINIMUM STANDARD.
 DIMENSION RATIO (SDR) SHALL BE 26. THE PIPE SHALL BE MADE OF PVC PLASTIC HAVING A MINIMUM CELL.
 CLASSIFICATION OF 12454-C, AND SHALL HAVE A MINIMUM PIPE STIFFNESS OF FORTY-SIX (46) LBS. PER INCH
 (317 KPA). JOINTS FOR PVC PIPE SHALL BE FLEXIBLE ELASTOMETRIC SEALS PER ASTM D 3212.
- HIGH-DENSITY POLYETHYLENE (HDPE) PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M252 AND M254 AND FITTINGS SHALL BE MADE FROM VIRGIN PÉ COMPOUNDS WHICH CONFORM TO THE REQUIREMENTS OF CELL CLASS 324420C AS DEFINED AND DESCRIBED IN ASTM D3350. RUBBER GASKET JOINTS SHALL BE USED.
- SEWER PIPE JOINTS SHALL BE SEALED WITH "O-RING" GASKETS, WATERMAIN QUALITY PIPE JOINTS SHALL BE "O-RING" TYPE, ASTM C-443.
- 4 MANHOLES AND CATCH BASINS SHALL BE PRECAST REINFORCED CONCRETE: ASTM C-478 AND ASTM C-443 CONFORMING TO THE FOLLOWING MINIMUM SIZE CRITERIA UNLESS SPECIFIED OTHERWISE: A.) FOR SEWER EIGHTEEN (18) INCH DIAMETER OR LESS, MANHOLE SHALL HAVE A FORTY-EIGHT (48) INCH INSIDE DIAMETER. B.) FOR SEWER TWENTY-ONE (21) INCH TO THIRTY-SIX (36) INCH IN DIAMETER, MANHOLE SHALL HAVE A SIXTY (60) INCH INSIDE DIAMETER. C.) FOR SEWER GREATER THAN THIRTY-SIX (36) INCH DIAMETER, MANHOLE SHALL HAVE AN OFFSET RISER PIPE OF FORTY-EIGHT (48) INCH INSIDE DIAMETER.
- 5. NO MORE THAN TWO PRECAST ADJUSTING RINGS WITH A MAXIMUM HEIGHT ADJUSTMENT OF 5 INCHES SHALL BE ALLOWED.
- MANHOLE FRAME AND COVER CASTINGS SHALL BE NEENAH NO. R-17±0 PAVED. EMBOSSED WITH "STORM".
 MANHOLE STEPS SHALL BE NEENAH NO. R-1961-1. INLET AND CATCH BASIN CASTINGS IN GRASSY AREAS SHALL
 BE NEENAH NO. R-4340-B GRATE, INLET AND CATCH BASIN CASTINGS IN PAVED AREAS SHALL BE NEENAH NO.
 R-2502 (TY. D) GRATE & R-1772 FRAME. UNLESS OTHERWISE NOTED.
- 7. INLETS SHALL BE TWENTY-FOUR (24) INCH DIAMETER PRECAST REINFORCED CONCRETE CONFORMING TO ASTM
- B. FOUR INCHES OF CA-7 CRUSHED GRAVEL OR CRUSHED STONE AGGREGATE. SHALL BE USED AS BEDDING UNDER THE PIPE. THE BEDDING STONE SHALL BE GRADED. ALONG THE ENTIRE LENGTH OF PIPE TO PROVIDE FULL BEARING. THE BEDDING STONE SHALL, EXTEND TO THE SPRINGLINE OF THE PIPE.
- 9. RIM GRADES IN CURB AND GUTTER ARE EDGE OF PAVEMENT ELEVATIONS.
- 10. ALL EXISTING FIELD TILE AND/OR DRAIN PIPES ENCOUNTERED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE. CONNECTED TO THE PROPOSED STORM SEWER SYSTEM. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH A NEW PIPE OF SIMILAR SIZE. AND MATERIAL TO THE ORIGINAL LINE AND GRADE AND PUT INTO AN ACCEPTABLE OPERATING. CONDITION, A RECORD OF ALL FIELD TILE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER FOR "RECORD DRAWINGS" ON COMPLETION OF THE PROJECT. THE COST OF THIS WORK IS CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL GOMPENSATION WILL BE PROVIDED.
- 11, ANY PIPES OR MANHOLES CONTAINING SEDIMENT SHALL BE CLEANED OUT PRIOR TO FINAL ACCEPTANCE.
- 12. STORM SEWER MANHOLE JOINTS SHALL BE SEALED WITH "O-RING" GASKETS OR MASTIC MATERIAL.

PLAN OF OPERATION:

- 1. INSTALL EROSION CONTROL ITEMS.
- 2. PERFORM SITE GRADING.
- 4. INSTALL UNDERGROUND AND PAVEMENT,
- 5. INSTALL SHELTER, PICKLEBALL EQUIPMENT, AND PLAYGROUND
- (I. ESTABLISH PERMANENT SEEDING.
- 7. REMOVE TEMPORARY EROSION CONTROL ITEMS.

PAVEMENT, SIDEWALK, AND CURB & GUTTER

- 1. PAVEMENT THICKNESS SHALL COMPLY WITH THE VILLAGE OF BUFFALO GROVE REQUIREMENTS.
- SIDEWALK SHALL BE FIVE (5) INCH PORTLAND GEMENT CONCRETE, SIDEWALK SHALL BE SIX (6) INCHES THICK WHERE PASSING ACROSS AN EXISTING OR PROPOSED COMMERCIAL DRIVE AND WHERE PASSING OVER PUBLIC UTILITY LINES.
- HANDICAPPED RAMPS AND DEPRESSED CURBS SHALL BE PROVIDED WHEREVER SIDEWALK INTERSECTS CURB IN ACCORDANCE WITH IDOT SPECIFICATIONS.
- 4. THE CURB AND GUTTER BASE COURSE SHALL BE CA-6, TRIMMED OR FILLED AS NECESSARY TO PROVIDE A FULL-DEPTH CURB AND GUTTER. PRIOR TO CONCRETE PLACEMENT, THE BASE COURSE SHALL BE COMPACTED AND PROCESSOLED.
- 5. EXPANSION JOINTS ARE TO BE CONSTRUCTED AT 60' MAXIMUM SPACING, ALL PCS AND PT'S OF INTERSECTION RETURNS (RADII) AND ALL OTHER SHORT RADII, AND 4' EACH SIDE OF CURB AND GUTTER FRAMES. TWO NO. 4 REINFORCING BARS SHALL BE PLACED CONTINUOUSLY BETWEEN EXPANSION JOINTS. EXPANSION JOINTS SHALL BE DOWELED AND SPACED NO MORE THAN SIXTY FEET ON CENTER.
- 6. CONTRACTION JOINTS SHALL BE SAWCUT AT 10-FOOT MAXIMUM INTERVALS TO A DEPTH OF 2.5 INCHES. CONTRACTION JOINT SPACES SHALL BE SEALED WITH A COLD-POURED JOINT COMPOUND. CONCRETE CURING COMPOUND SHALL BE APPLIED AS FINISHING WORK PROCEEDS.
- THE CONTRACTOR SHALL BACKFILL CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF BASE COURSE MATERIALS. THE CURB IS TO BE SAWCUT WITHIN 24. HOURS AFTER PLACEMENT. GUTTER PITCH SHALL BE REVERSED WHERE APPROPRIATE FOR. DRAINAGE.
- 8. ALL CURBS CONSTRUCTED OVER A UTILITY TRENCH SHALL BE REINFORCED WITH TWO NO. 5 REBARS FOR A LENGTH OF 10 FEET CENTERED OVER THE TRENCH. SIDEWALKS SHALL BE TREATED IN THE SAME MANNER. USING THREE NO. 6 BARS OVER UTILITIES.
- 9. PRIOR TO PLACING ANY PAVEMENT MATERIAL, THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY PREPARING AND COMPACTING THE SUBGRADE, BOTH THE CURB AND GUTTER AND PAVEMENT BASE COURSE SHALL BE PROOF-ROLLED WITH A FULLY-LOADED DUMP TRUCK. THE ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS BEFORE PROOF-ROLLING. ADDITIONAL PROOF-ROLLS MAY BE NECESSARY TO VERIFY THAT ANY UNSTABLE AREAS HAVE BEEN REPAIRED, NO PAVEMENT MATERIAL IS TO BE PLACED ON A WET OR SOFT SUBGRADE. DEVELOPER'S/OWNER'S MATERIAL TESTING AGENT SHALL ALSO WITNESS PROCEDURE TO MAKE AND CERTIFY REPAIRS IN WRITING.
- ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT TO A NEAT EDGE ALONG LIMITS OF PROPOSED REMOVAL BEFORE REMOVAL OPERATIONS BEGIN.
- 11. ALL CONCRETE PAVING SHALL MEET THE REQUIREMENTS OF THE ILLINOIS ACCESSIBILITY CODE, LATEST FOLLOW

SOIL EROSION CONTROL PLAN

- CONTRACTOR SHALL BE REQUIRED TO COMPLETE ALL EROSION CONTROL INSPECTIONS AND DOCUMENTATION THROUGHOUT CONSTRUCTION. INSPECTIONS AND DOCUMENTATION SHALL BE COMPLETED AT A MINIMUM BIWEEKLY AND AFTER EACH RAINFALL GREATER THAN § AT ALL PERIODS DURING CONSTRUCTION WITH UNSTABILIZED AREAS. CONTRACTOR SHALL MAINTAIN INSPECTION LOGS ONSITE AND SHALL PROVIDE COPIES TO THE OWNER AND VILLAGE OF BUFFALC GROVE REGULARLY.
- 2. ALL EROSION CONTROL MEASURES ARE TO BE IN PLACE BEFORE ANY WORK BEGINS ON SITE.
- 3. STOCKPILE SHALL NOT BE LOCATED IN SPECIAL MANAGEMENT AREAS.
- 4. WHERE FENCING IS USED, THE CONDITION OF THE FENCE SHALL BE CHECKED AT MINIMUM EVERY OTHER WEEK, OR AFTER EVERY RAINSTORM THAT MIGHT PRODUCE RUNOFF, DAMAGED OR DETERIORATED ITEMS SHALL BE REPLACED AND MAINTAINED IN AN EFFECTIVE CONDITION.
- ANY STORM WATER DRAINAGE STRUCTURES THAT HAVE THE POTENTIAL TO ACCEPT RUNOFF CONTAINING SUSPENDED SOIL PARTICLES SHALL BE SURROUNDED WITH SILT FENCE.
- 6. SILT FENCE SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN PAVED OR VEGETATED, AND SHALL ALSO BE CHECKED AT REGULAR INTERVALS TO MAINTAIN EFFECTIVENESS IN TERMS OF TOTAL CONTACT WITH THE EARTH BELOW.
- 7. AS EACH PHASE ON THE ENTIRE SITE IS COMPLETED, SILT FENCE SHALL BE REMOVED AND THE ENTIRE AREA EITHER SODDED OR SEEDED AFTER SEDIMENT HAS BEEN REDISTRIBUTED. IF WEATHER CONDITIONS ARE SUCH THAT SEEDING WOULD NOT BE EFFECTIVE, THEN THE STOCK PILES SHOULD BE EITHER MULCHED OR COVERED AND GRADED SO THAT ALL SEDIMENT FROM EROSION WILL BE CONFINED WITHIN THE BOUNDARIES OF THE SITE.
- A SEEDING SHALL BE DONE PER "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL, LATEST EDITION AND CITY OF SYCAMORE STORM WATER CONTROL ORDINANCE.
- 9. TO PREVENT SOIL FROM LEAVING THE SITE ON CONSTRUCTION VEHICLE WHEELS, STABILIZED CONSTRUCTION WORK ENTRANCES SHALL BE CONSTRUCTED OF GRAVEL AND SHALL EXTEND AT LEAST 100 FEET INTO THE JOB SITE. THE EXISTING PAYEMENT SURFACES SHALL BE INSPECTED. DAILY FOR SOIL DEBRIS AND SHALL BE GLEANED WHEN NECESSARY.
- 10. THE CONTRACTOR SHALL HAVE THE RAIN GARDEN VOLUME VERIFIED BY A LICENSED ENGINEER OR SURVEYOR PRIOR TO THE INSTALLATION OF TOPSOIL AND SEEDING/SOD AND PLANTING. THE COST OF SAID VERIFICATION SHALL BE BORNE BY THE CONTRACTOR.
- 11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DISPOSE OF ANY EXCESS. EXCAVATED
- 12. TOPSOIL STOCK PILES SHALL BE PROTECTED. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, THEN SEDIMENT & EROSION CONTROL SHALL BE PROVIDED. FOR SUCH STOCKPILE.
- 13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL THE SEDIMENTATION CONTROL MEASURES. INSPECTIONS SHALL BE CONDUCTED AFTER A RAIN EVENT, AND IF MAINTENANCE OF THE STRUCTURES IS NECESSARY, INCLUDING REPAIR OF DAMAGE AND REMOVAL OF DEPOSITS OR SEDIMENT FROM VEGETATIVE FILTERS, IT SHALL SE DONE BY THE CONTRACTOR.

SITE GRADING

- 1. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS MAY REQUIRE. EARTH.

 EXCAVATION AND COMPACTED EARTH FILL MATERIAL IN ORDER TO ACHIEVE THE PLAN. SUBGRADE ELEVATIONS:
- 2. PLACEMENT OF THE EXCAVATED MATERIAL SHALL BE IN AREAS DESIGNATED BY THE OWNER. FOR FUTURE USE. WITHIN AREAS TO BE LANDSCAPED, AND THOSE AREAS NOT REQUIRING. STRUCTURAL FILL MATERIAL.
- COMPACTION OF THE EXCAVATED MATERIAL PLACED IN AREAS NOT REQUIRING STRUCTURAL FILL SHALL BE MODERATE.
- EXCESS MATERIALS, IF NOT UTILIZED AS FILL OR STOCKPILED FOR FUTURE LANDSCAPING. SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF BY THE CONTRACTOR.
- 5. EXCAVATION OF EARTH AND OTHER MATERIALS WHICH ARE SUITABLE FOR USE AS: STRUCTURAL FILL: THE EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.3 */- OF THE PLAN SUBGRADE ELEVATIONS. THE TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIAL SHALL BALANCE AS PART
- OF THE FINE GRADING OPERATION.

 6. PLACEMENT AND COMPACTION OF MATERIALS SHALL CONFORM TO LD.O.T. SPECIFICATIONS.
- THE CONTRACTOR SHALL MAINTAIN PROPER SITE DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
- PAYMENT FOR THE REMOVAL OF UNSUITABLE MATERIAL (EXCLUDING TOPSOIL EXCAVATION) SHALL BE BASED ON THE QUANTITIES AS FIELD MEASURED BY THE ENGINEER.



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PROJECT

Prairie Grove Park OSLAD Development

2020 Olive Hill Drive Buffalo Grove, Illinois 60089

PROJECT TEAM



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DEVICIONS

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PROJECT NUMBER

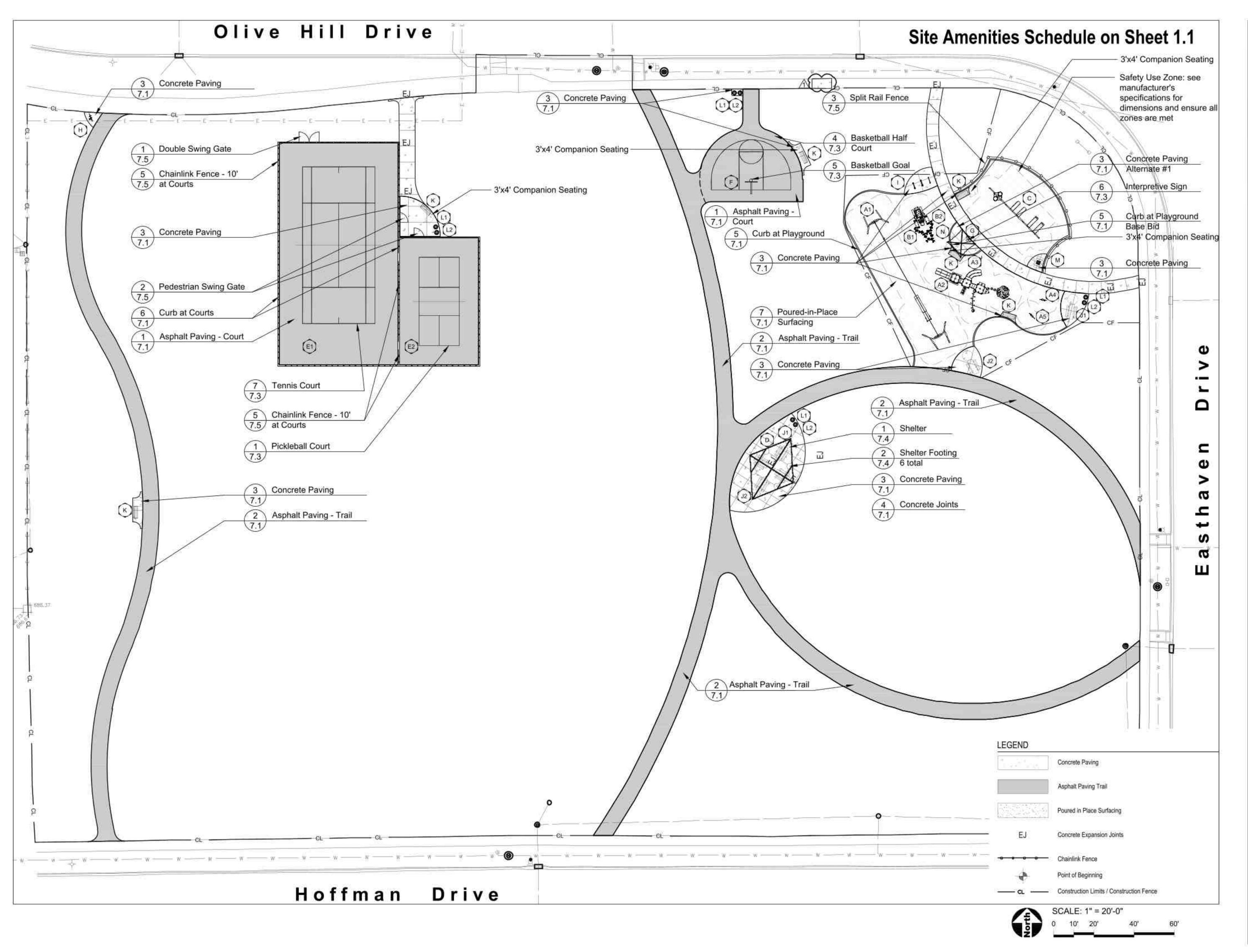
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SHEET TITLE

Stormwater Pollution Prevention

SHEET NUMBER

2.2

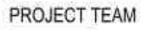




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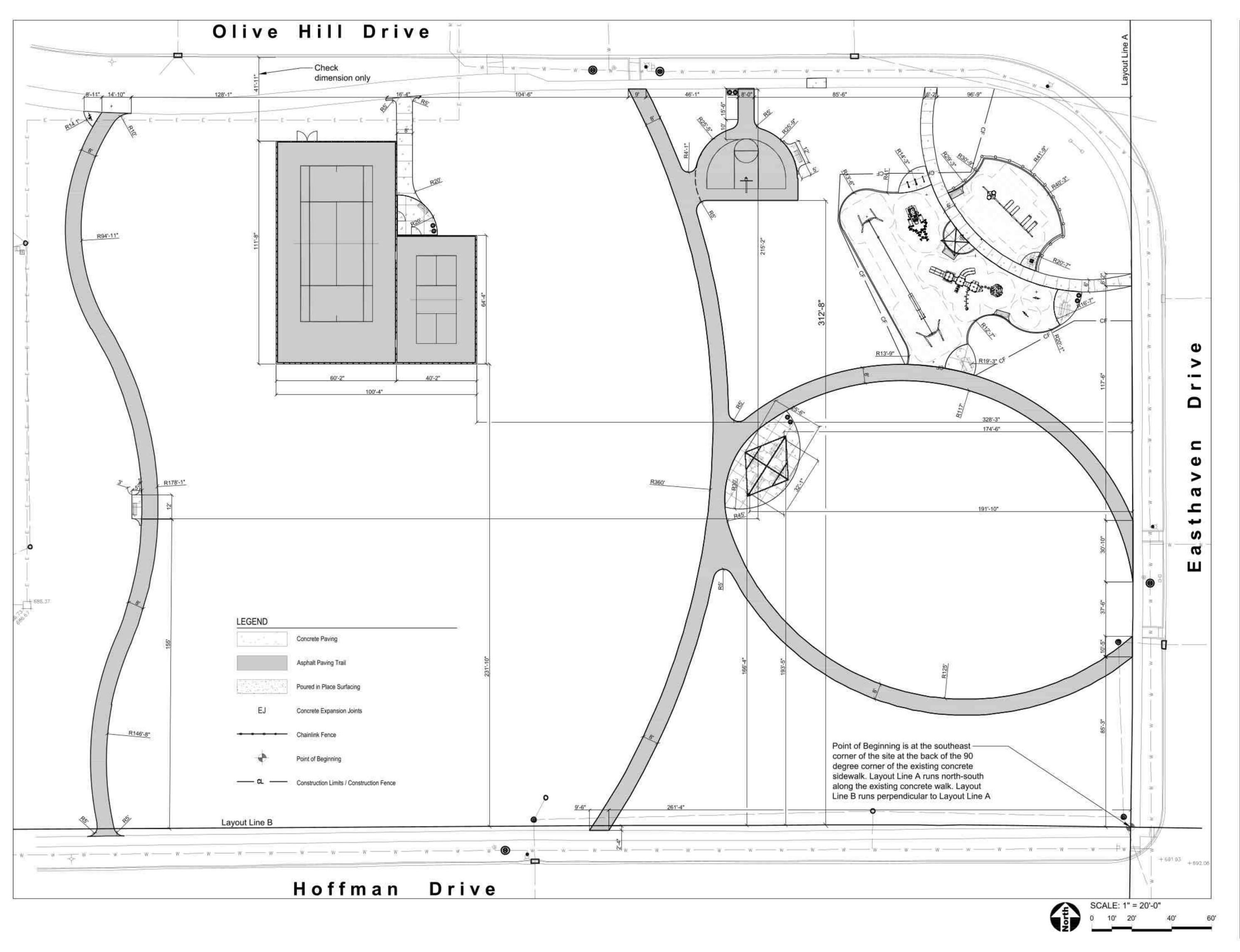
SHEET TITLE

Layout Plan

SHEET NUMBER

3.0

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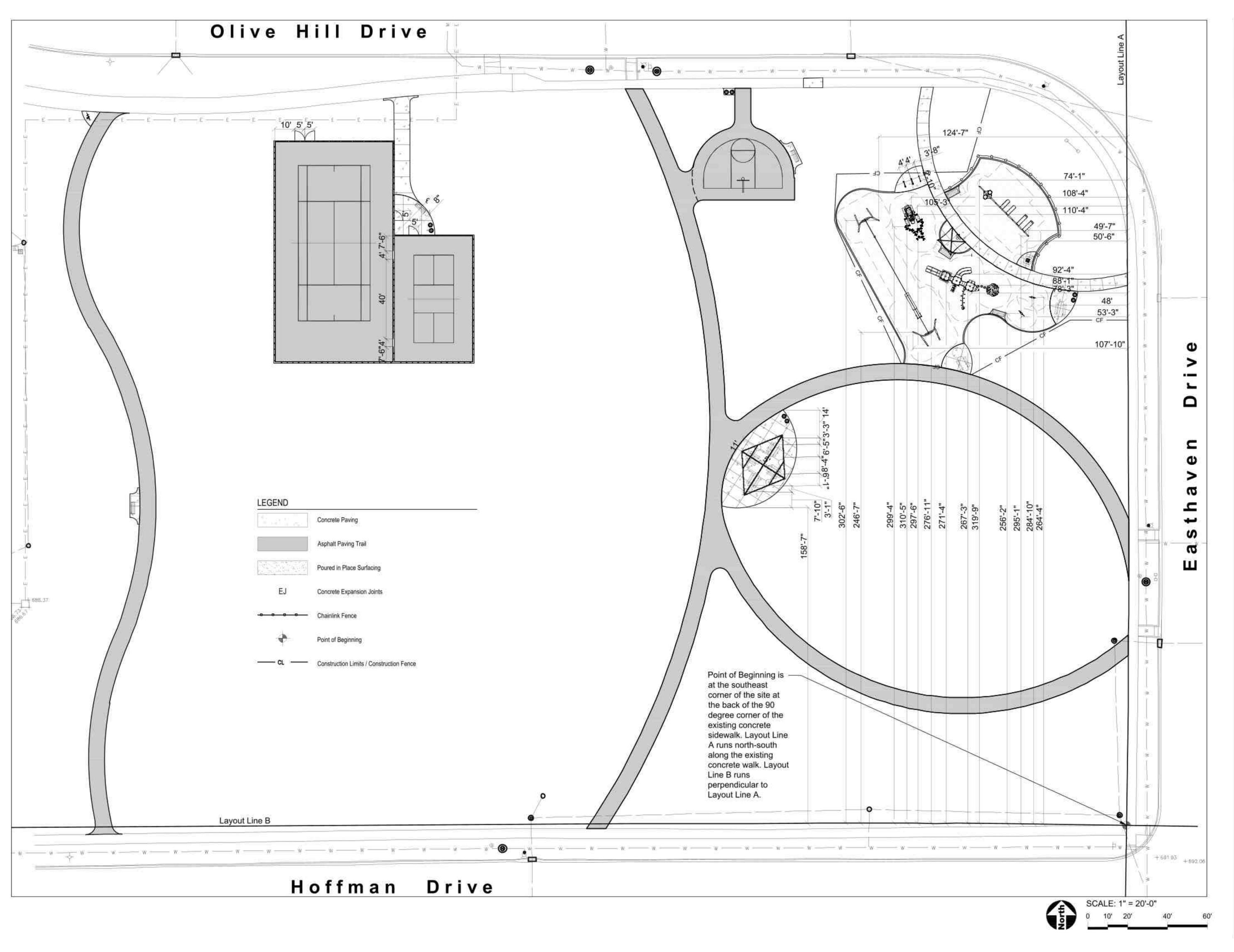
SHEET TITLE

Dimension Plan - Site

SHEET NUMBER

4.0

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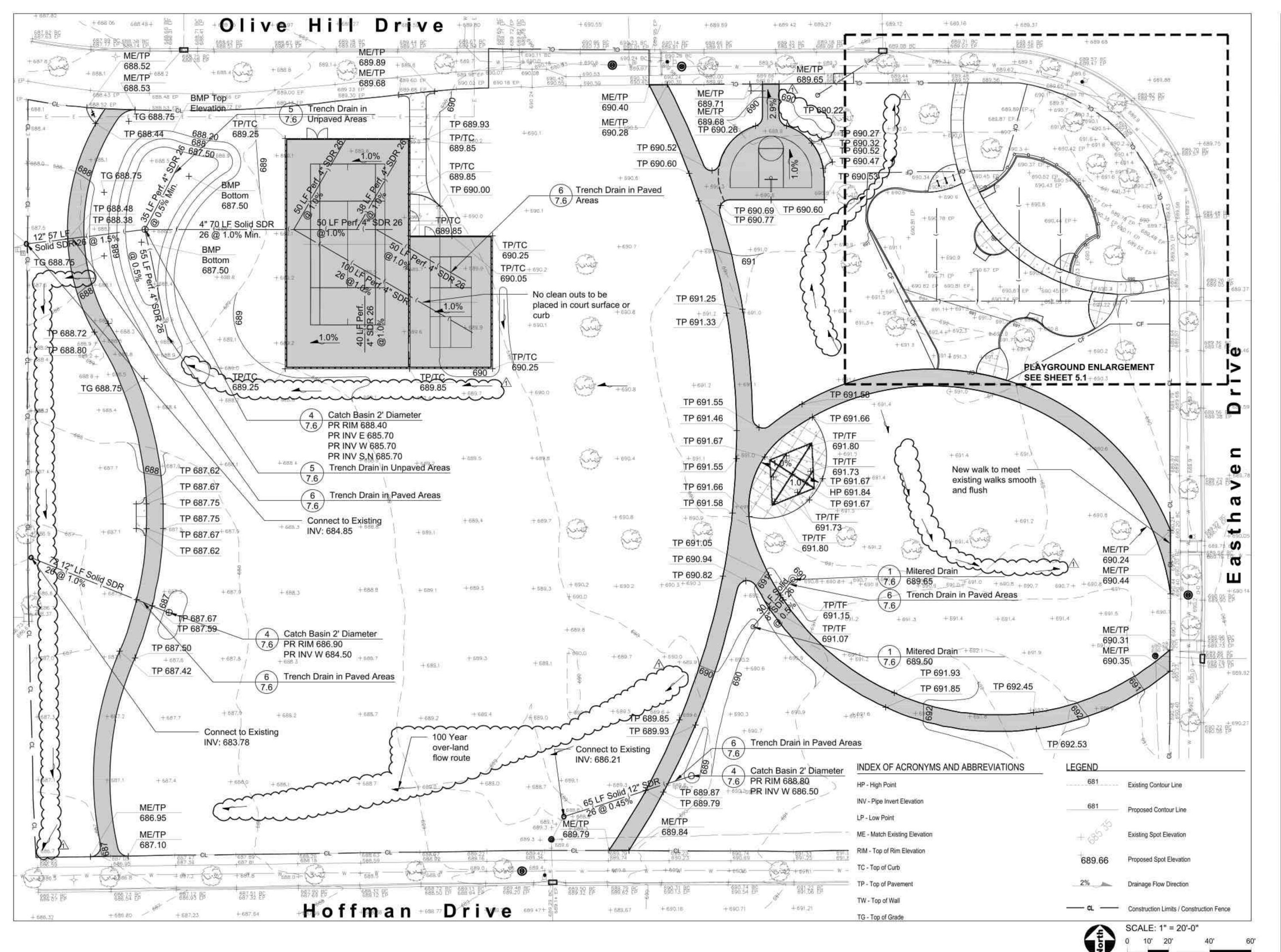
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SHEET TITLE Dimension Plan -Equipment

SHEET NUMBER





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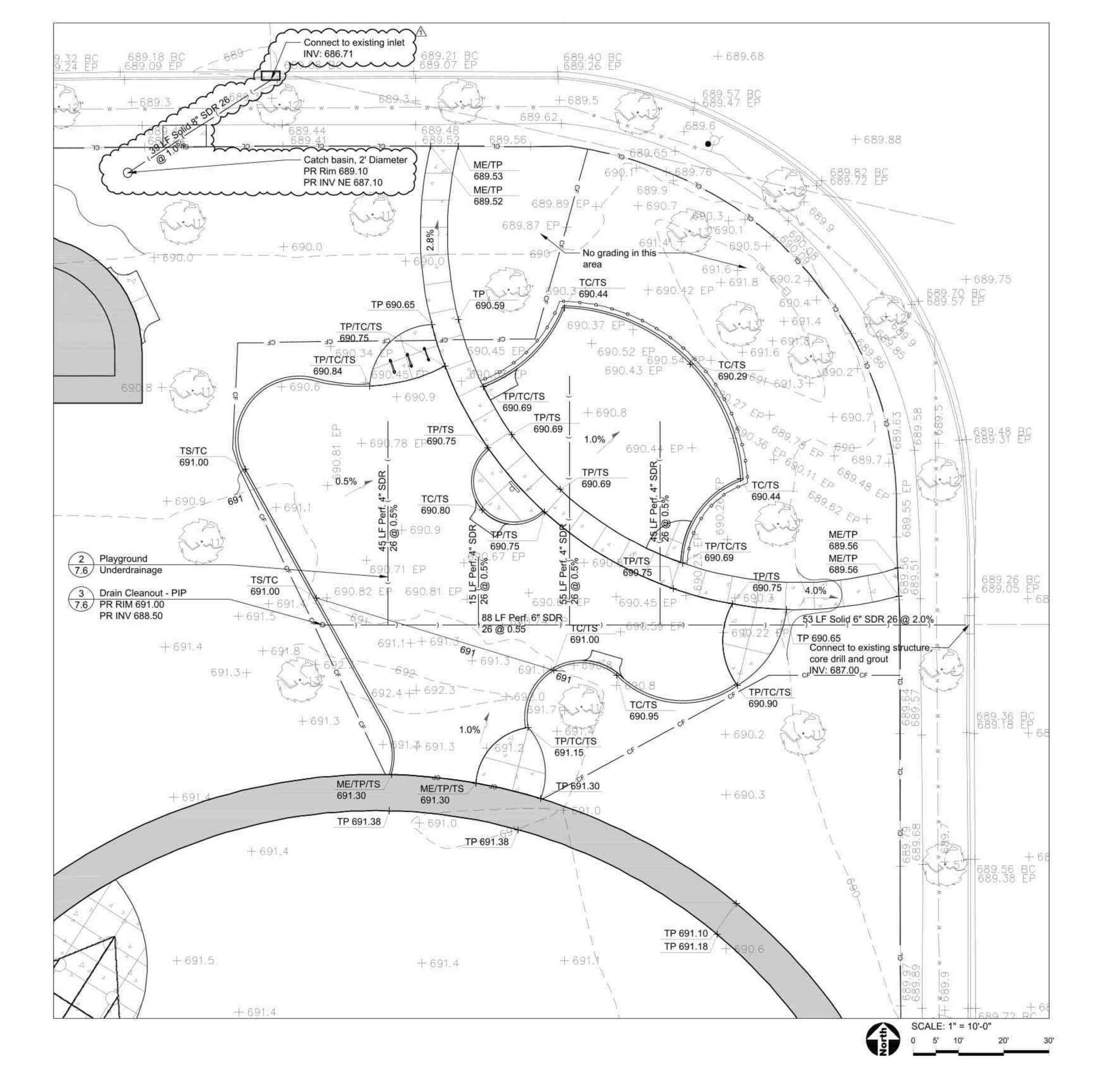
SHEET TITLE

Grading Plan

SHEET NUMBER

5.0

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LEGEND

2%

INV - Pipe Invert Elevation

ME - Match Existing Elevation

RIM - Top of Rim Elevation

TC - Top of Curb

TP - Top of Pavement

TS - Top of Play Surface

Existing Contour Line

Proposed Contour Line

Existing Spot Elevation

Proposed Spot Elevation

Drainage Flow Direction

----- CL ------ Construction Limits / Construction Fence

INDEX OF ACRONYMS AND ABBREVIATIONS

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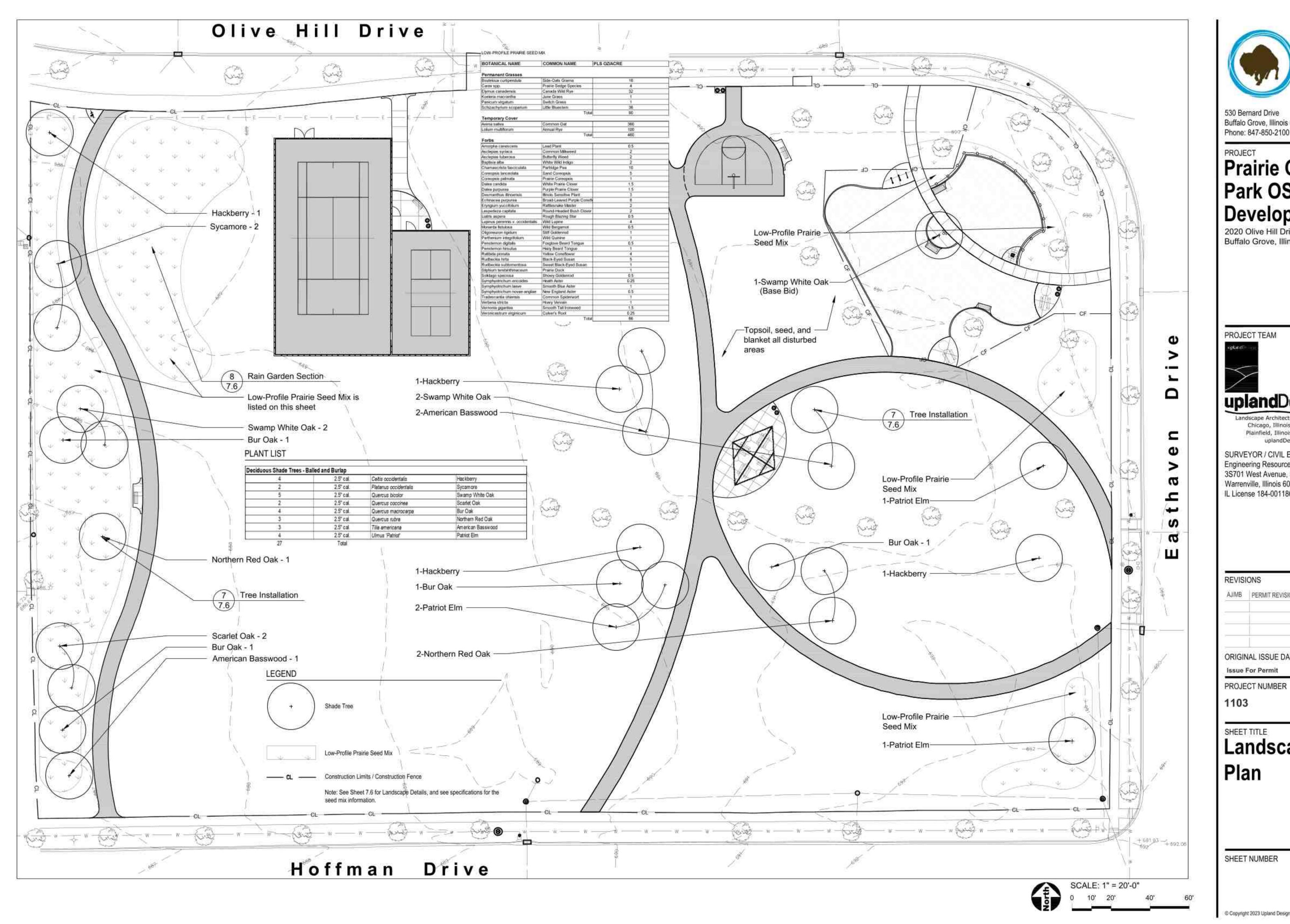
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SHEET TITLE

Grading Plan -Enlargement

SHEET NUMBER

5.1





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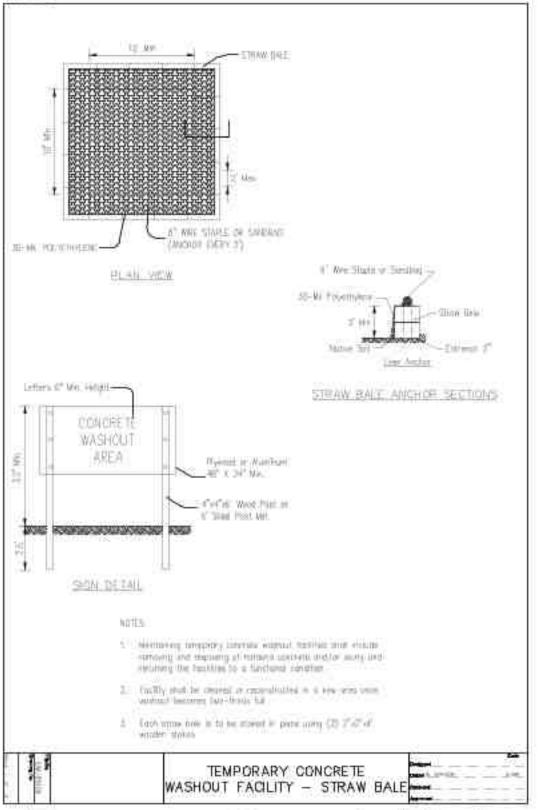
SHEET TITLE

Landscape Plan

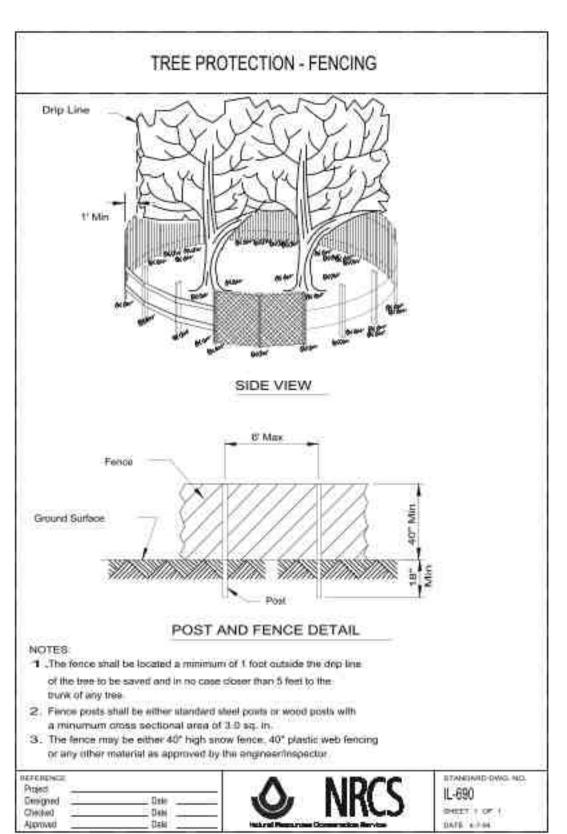
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6.0

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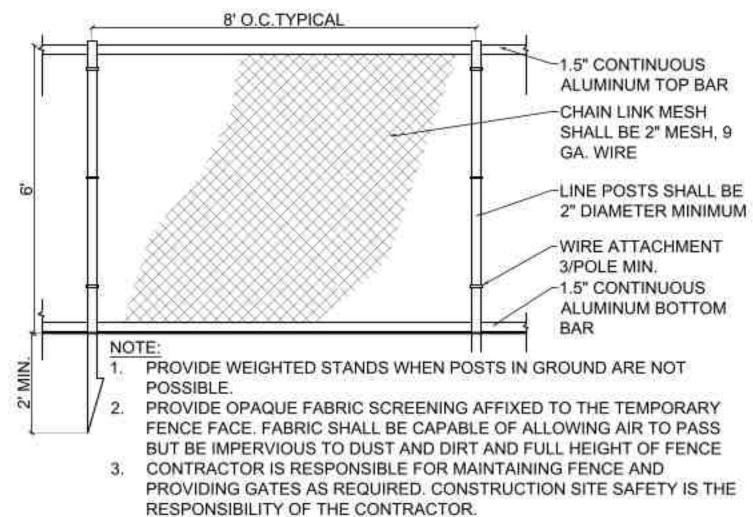
Temporary Concrete Washout



Tree Protection Fence

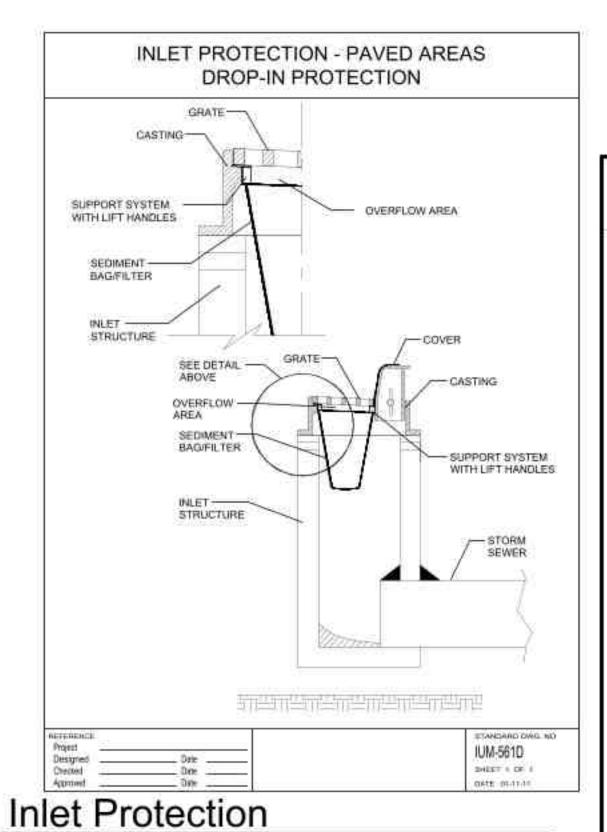
SCALE: NTS

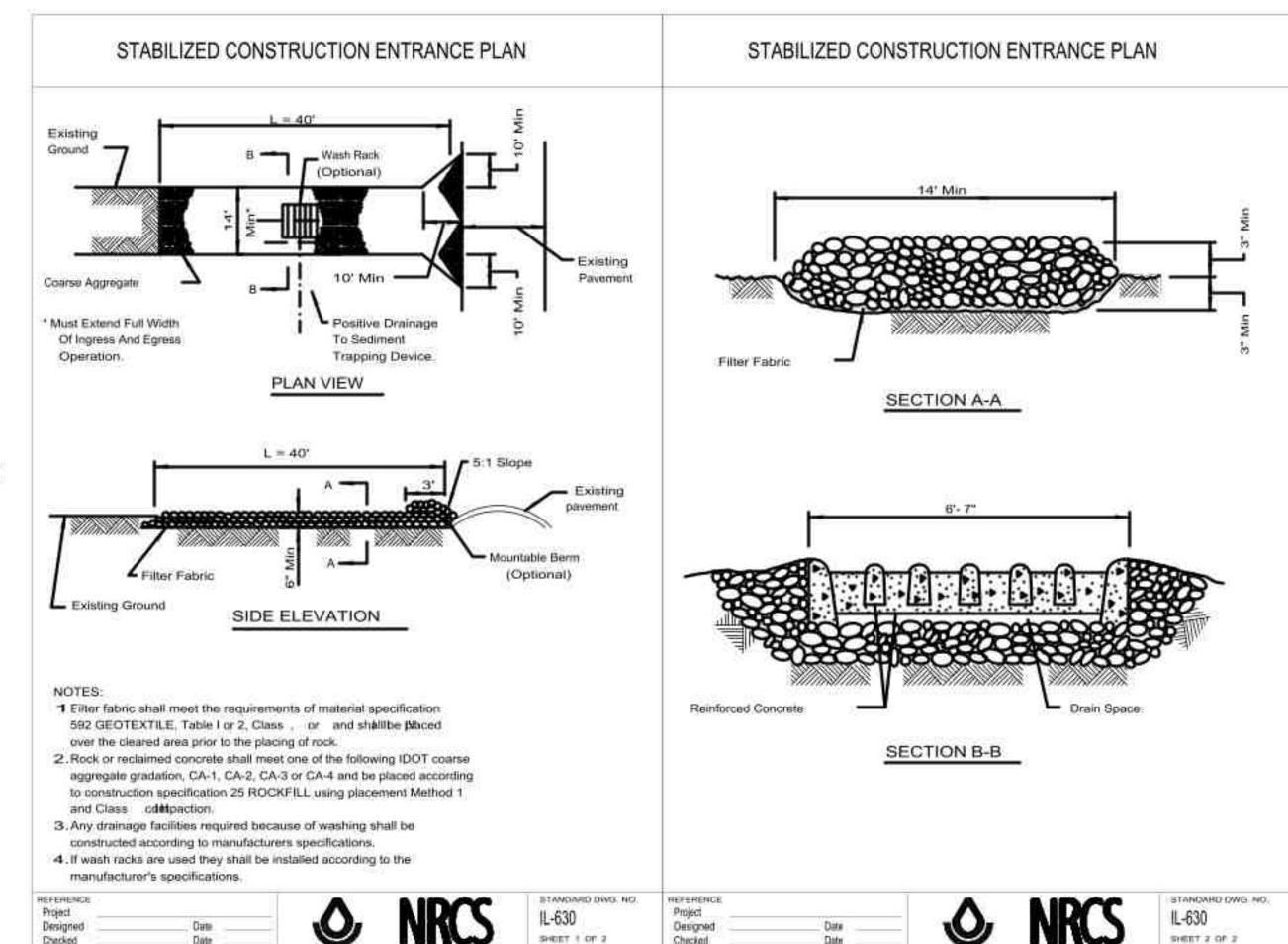
d-NRCS-IL690-tree protection fence 12



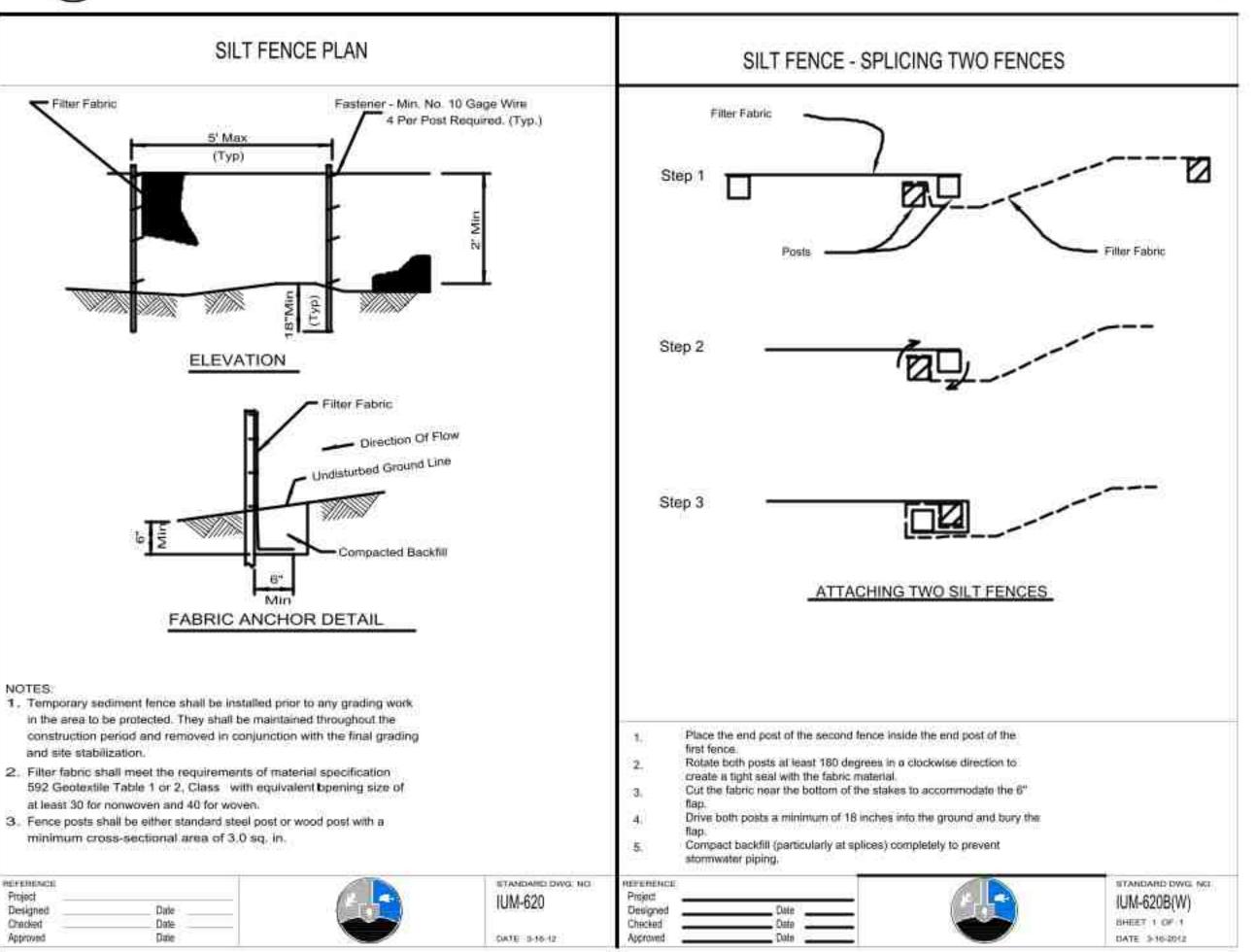
3 6' High Construction Fence

SCALE: 1/2"=1'-0" Construction Fence_3





Stabilized Construction Entrance







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Prairie Grove Park OSLAD Development

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d-Stabilized Construction Entrance 12

d-Silt Fence 12

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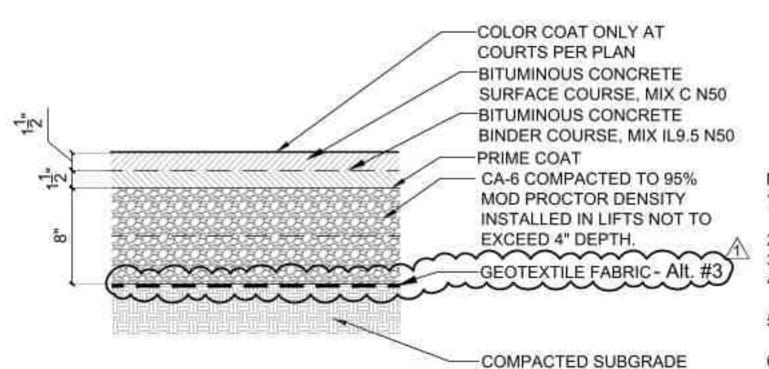
SHEET TITLE

Construction Details

SHEET NUMBER

7.0

04APRIL2023



Asphalt Paving - Court

NOTES:

d-asph-court 8

 JOINTS PLAN TAKES PRIORITY OVER NOTES EXCEPT FOR MAXIMUM SPACING.

1/8" R.

2. CONTRACTION JOINTS TO BE PLACED 10' O.C. MAXIMUM

- EXPANSION JOINTS TO BE PLACED 30' O.C. MAXIMUM
 PLACE EXPANSION JOINTS BETWEEN NEW CONCRETE
- POURS AND INSTALL 8" EPOXY COATED BARS, 12" O.C. 5. CURB JOINTS TO MATCH CONCRETE PAVING WHERE APPLICABLE
- 6. INSTALL SMOOTH DOWELS AT EXPANSION JOINTS
- 7. NO 'CALIFORNIA JOINTS'

Concrete Joints

SCALE: 1 1/2"=1'-0" d-conc_joints_8.dwg

TOOL JOINTS

UNIFORM AND

OF CONCRETE

CONTRACTION JOINT -

STRAIGHT-FORM WITH

STRAIGHT EDGE, 1/5 DEPTH

EXPANSION JOINT TO BE 1/8"

MATERIAL TO BE 1/2" OR 3/4"

THICK AS PER REFERENCED

BELOW THE SURFACE OF

PAVEMENT. FILLER

SPECIFICATION.

3 CONCRETE PAVING

BITUMINOUS CONCRETE
SURFACE COURSE CLASS B

PRIME COAT

AGGREGATE BASE
COURSE CA-6 PLACED &
COMPACTED IN

2 - 4" LAYERS

COMPACTED SUBGRADE

2) Asphalt Paving - Trail

7 POURED IN PLACE 7.1 SURFACING - 3" CHAMFER 1" RADIUS ON TOP EDGES, LIGHT BROOM OR RUBBED FINISH ON ALL EXPOSED SURFACES. FINISHED GRADE IS AT TOP OF CURB UNLESS OTHERWISE NOTER CURB TOOL JOINTS AND CONTRACTION JOINTS TO MATCH, CONCRETE PAVING JOINTS #4 REBAR TOP AND BOTTOM, CONTINUOUS, 2" CLEAR, OVERLAP 12" MINIMUM AT SPLICES, DOWEL AT EXPANSION JOINTS. COMPACTED CA-6 OR GRANULAR BASE COMPACTED SUBGRADE

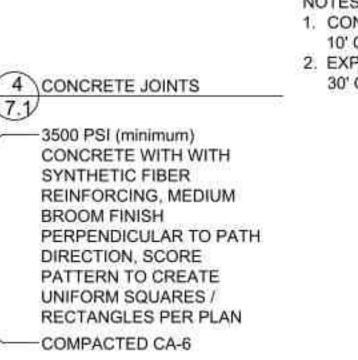
NOTES:

1. CONTRACTION JOINTS TO 10' O.C. MAXIMUM

2. EXPANSION JOINTS TO BE 25' O.C. MAXIMUM

5 Curb at Playground

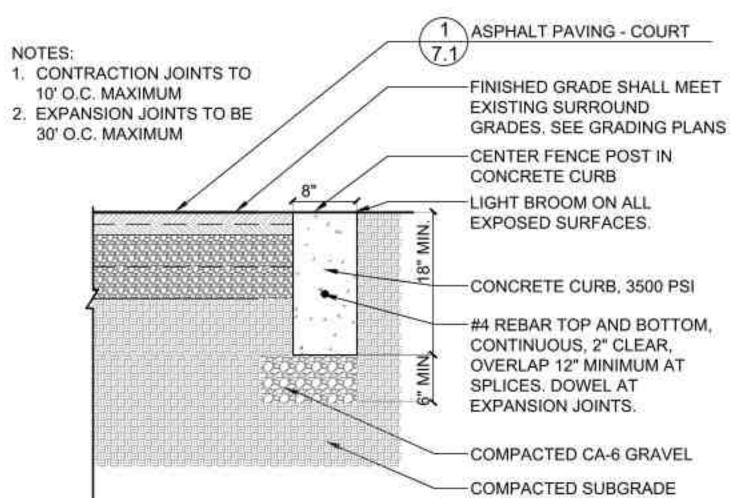
SCALE: 1" = 1'-0" d-conc curb-pip_12



Concrete Paving

d-conc pay-5_8

COMPACTED SUBGRADE







POURED-IN-PLACE RUBBER

SURFACE WEAR COURSE,

-POURED-IN-PLACE RUBBER

ATTENUATION LAYER. MEET

ASTM F-1292 FOR CRITICAL

SURFACE IMPACT

COMPACTED CA-7

-6 OZ NON-WOVEN

GEOTEXTILE FABRIC.

OVERLAP EDGES 12" MIN.

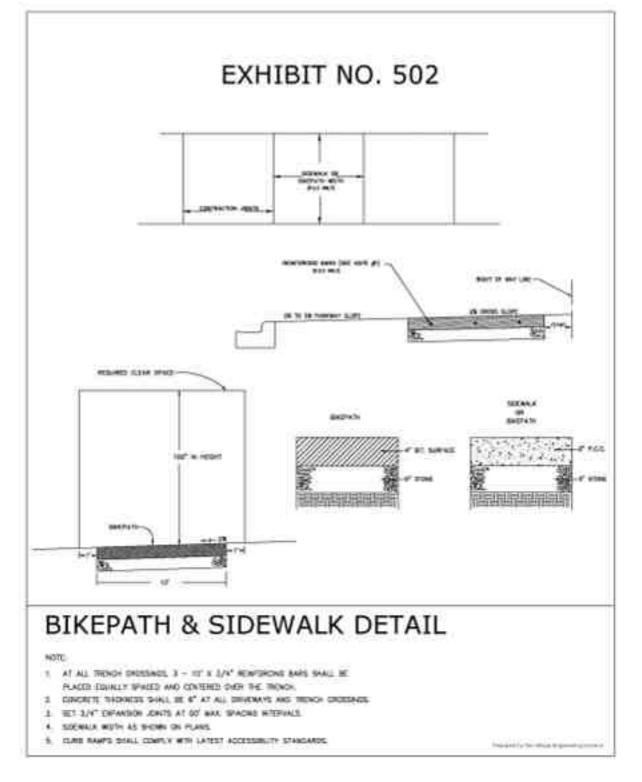
COMPACTED SUBGRADE

SEE DRAWINGS FOR COLOR

MIX AND PATTERN SHEET 7.2

FALL HEIGHT

NOTE:



8) BIKEPATH & SIDEWALK DETAIL-VILLAGE OF BUFFALO GROVE



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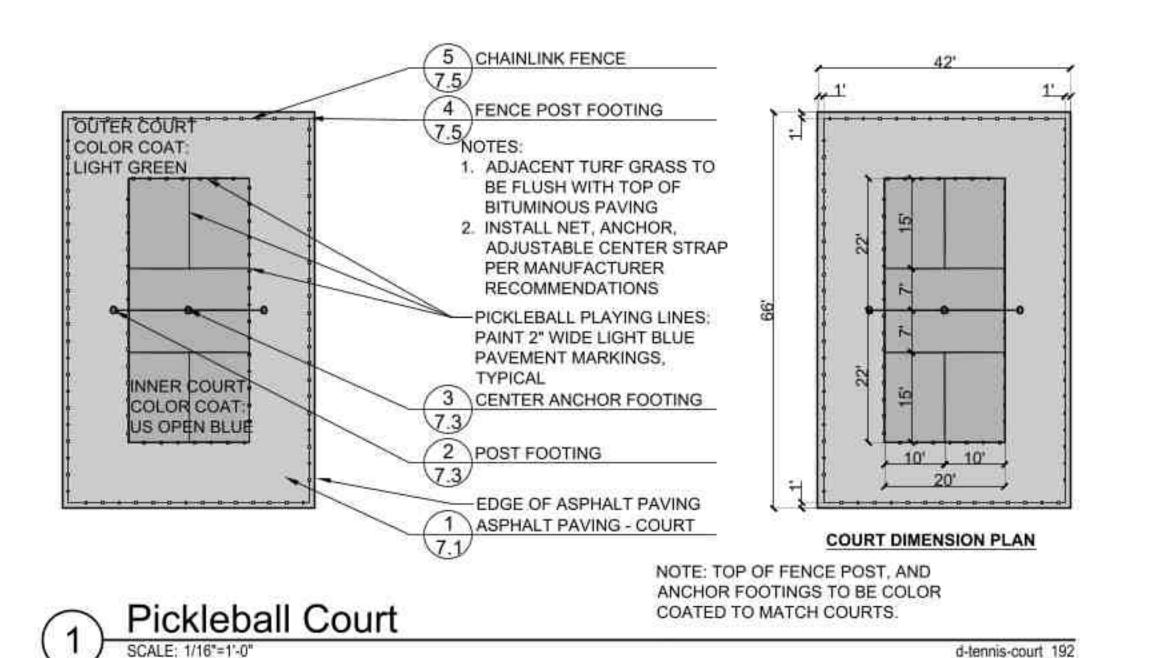
SHEET TITLE

Construction Details

SHEET NUMBER

7.

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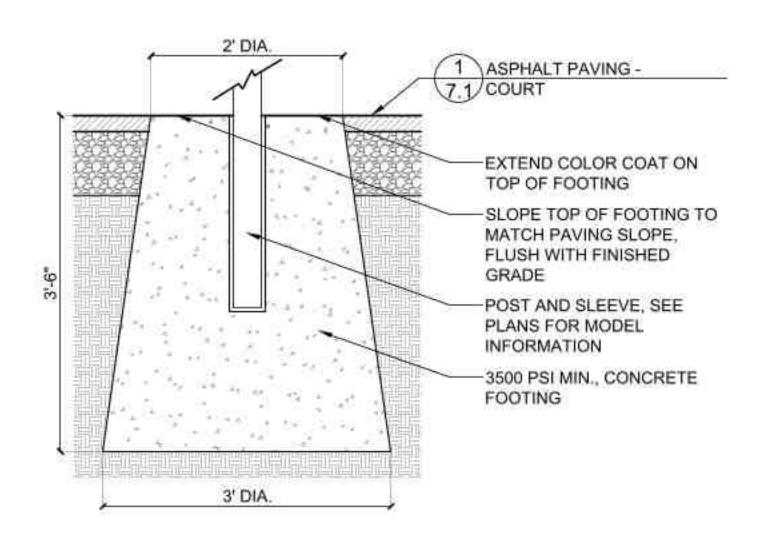
-BASKETBALL GOAL SEE INSTALLATION DETAIL -ASPHALT PAVING COURT COLOR COAT: LIGHT GREEN -15' - FROM BACKBORAD TO LINE IS THE CRITICAL DIMENSION -PAINT 2" WIDE COURT STRIPES IN PATTERN SHOWN COURT COLOR COAT: US OPEN BLUE COURT COLOR COAT: LIGHT GREEN -RADIUS CENTER IS AT HOOP.

halfcourt-basketball

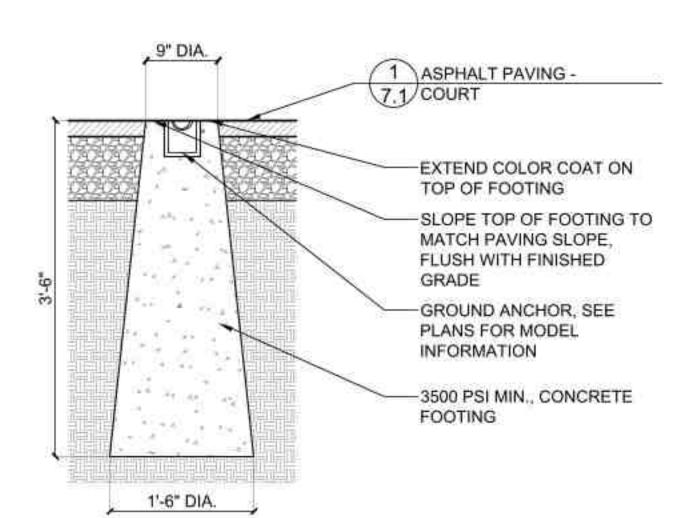
BASKETBALL POST, RIM AND BACKBOARD, SEE AMENITIES SCHEDULE FOR MANUFACTURER NOTE: SEE MANUFACTURER'S SPECIFICATION FOR DETAILED INSTRUCTIONS. LAWN COLOR COAT TOP OF FOOTING TO MATCH ASPHALT PAVING FLUSH WITH TOP OF FOOTING 有用有用有用有 -3500 P.S.I. CONCRETE FOOTING 2 DIA.

Basketball Half Court

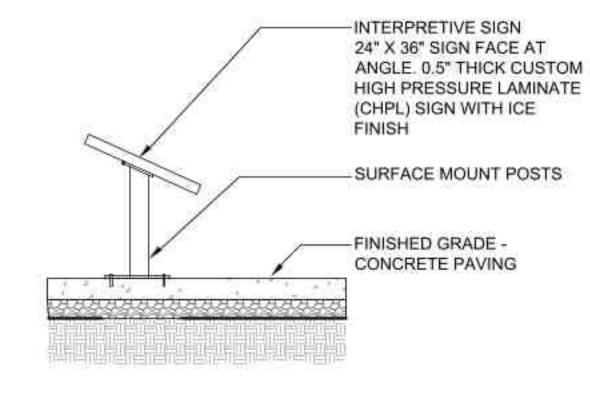
Basketball Goal d-bball-goal_48



Tennis and Pickleball Post Footing

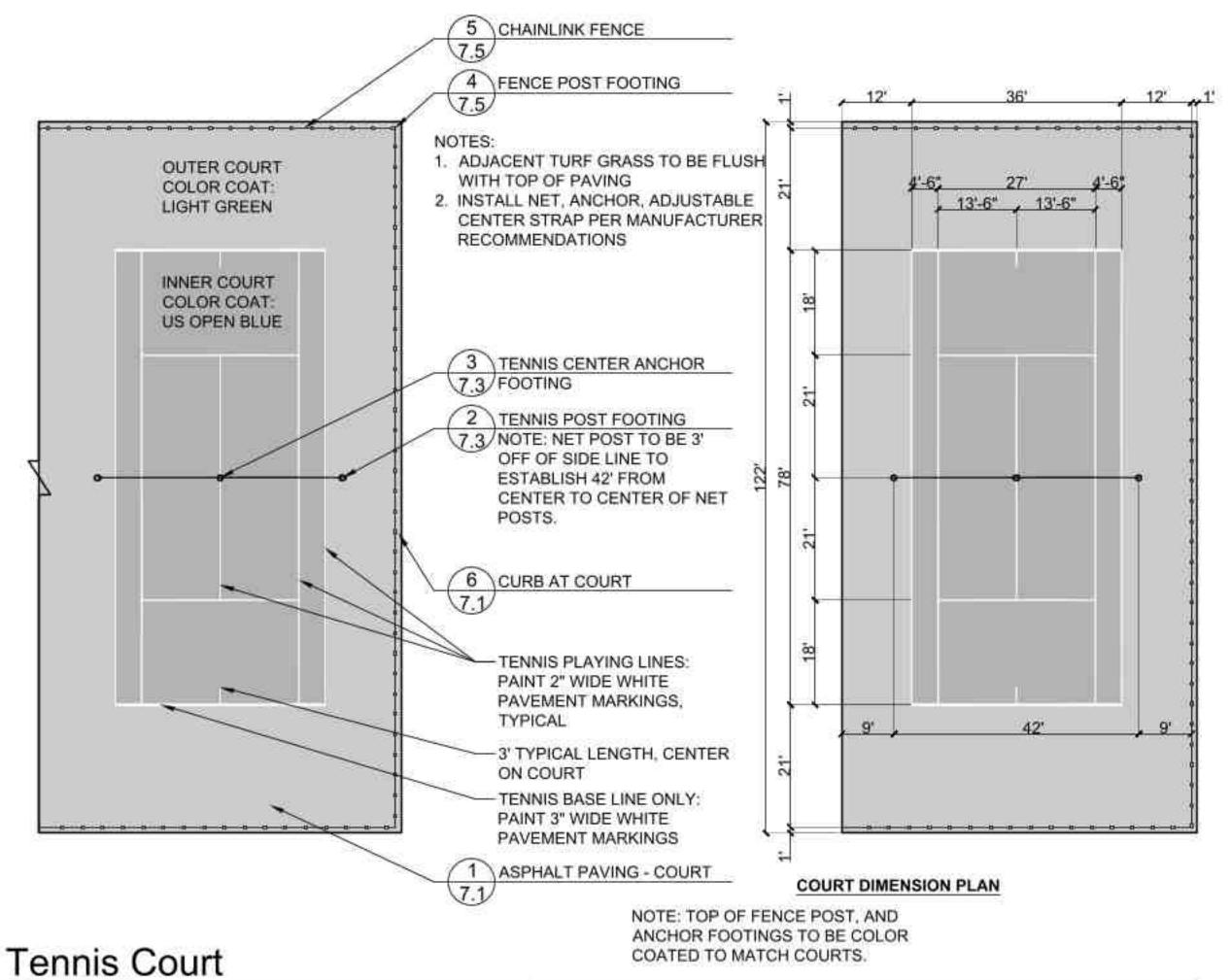


Tennis & Pickleball Center Anchor Footing d-tennis anchor-footing 12



CONTRACTOR TO ASSEMBLE AS PER MANUFACTURER'S SPECIFICATIONS.

Interpretive Sign d-sign_interpsign-sf_12.dwg

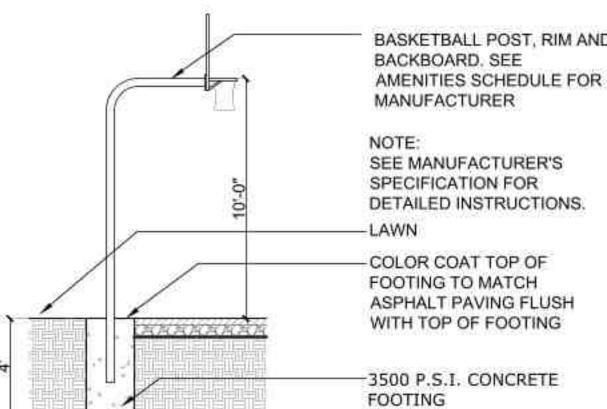


SHEET NUMBER

d-tennis-court 192

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BUFFALO

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REVISIONS

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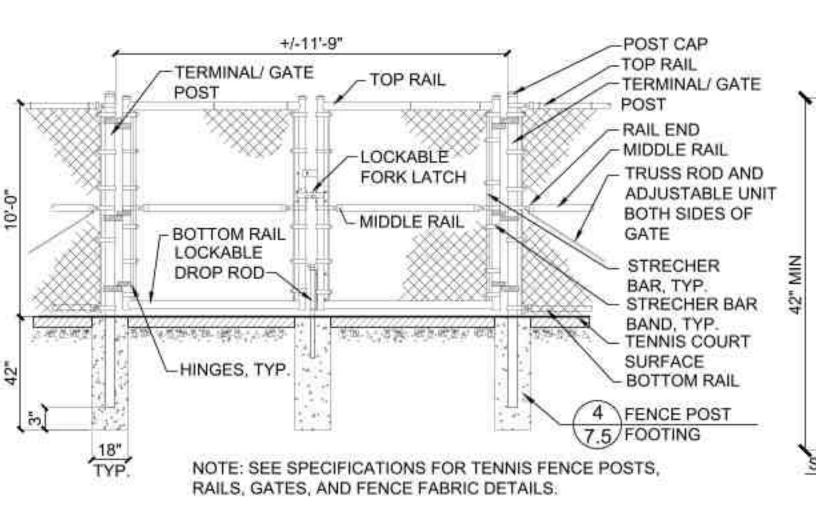
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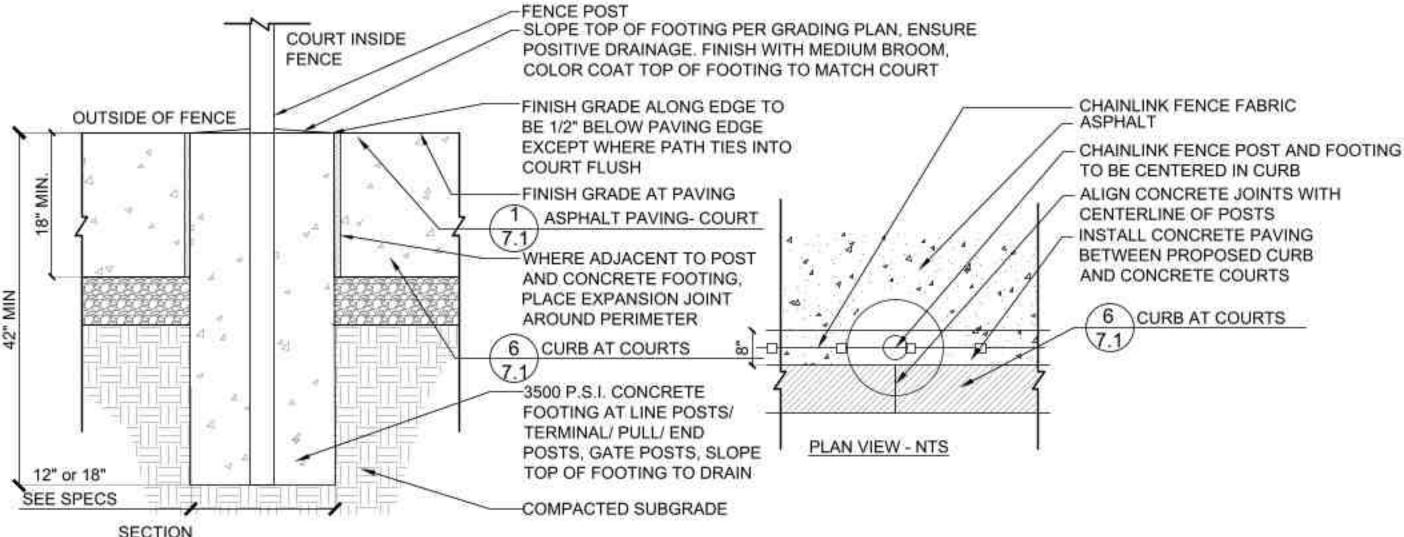
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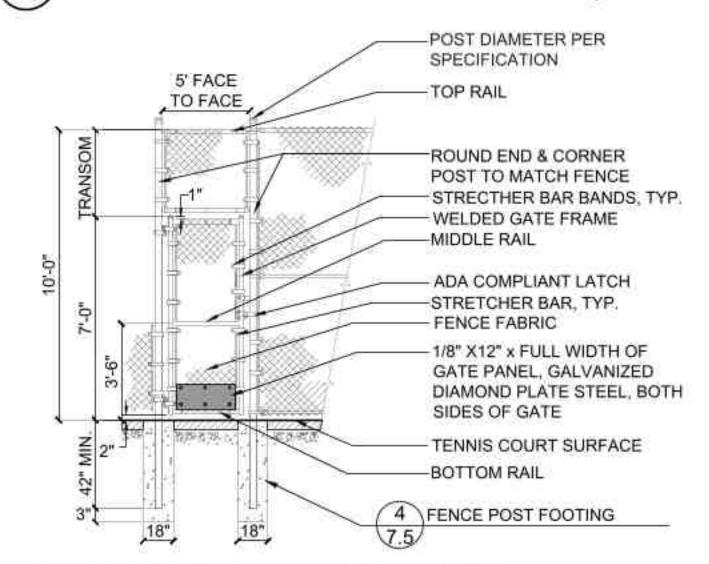
Construction **Details**





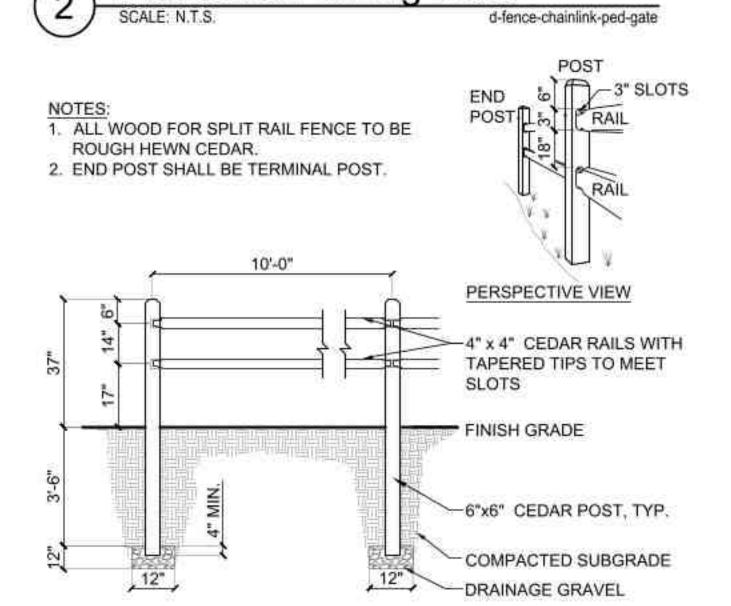
Double Swing Gate

SCALE: N.T.S. d-fence-chainlink-2-gate



NOTE: SEE SPECIFICATIONS FOR TENNIS FENCE POSTS, RAILS, GATES, AND FENCE FABRIC DETAILS.

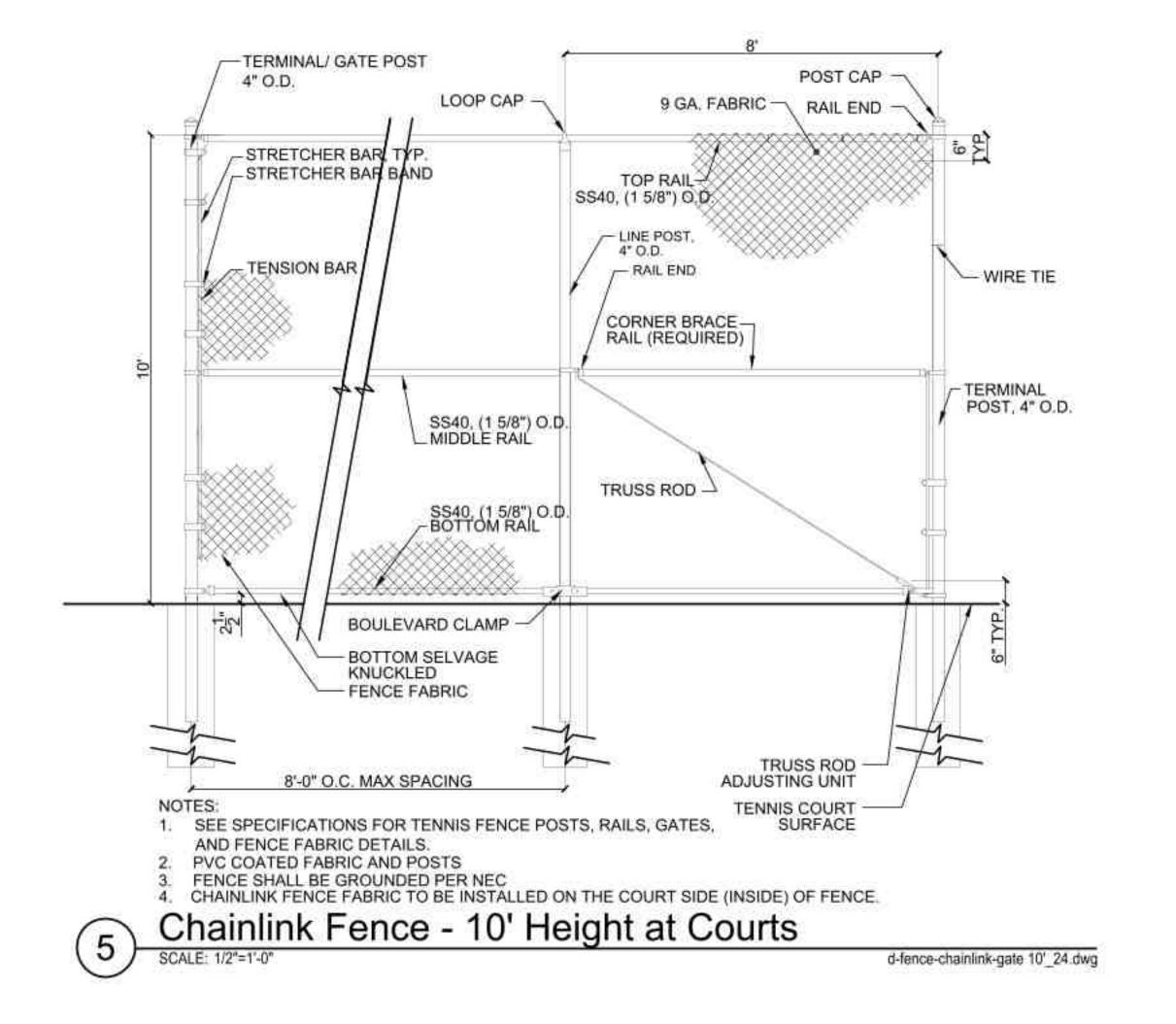
> Pedestrian Swing Gate



Split Rail Fence

SCALE: N.T.S. d-fence_split rail 4'_12.dwg





BUFFALO GROVE PARK DISTRICT

530 Bernard Drive Buffalo Grove, Illinois 60089 Phone: 847-850-2100

PROJECT

Prairie Grove Park OSLAD Development

2020 Olive Hill Drive Buffalo Grove, Illinois 60089

PROJECT TEAM



Landscape Architecture & Park Planning Chicago, Illinois 312-350-4088 Plainfield, Illinois 815-254-0091 uplandDesign.com

SURVEYOR / CIVIL ENGINEER Engineering Resource Associates 3S701 West Avenue, Suite 150 Warrenville, Illinois 60555 IL License 184-001186

REVISIONS

| AJ/MB | PERMIT REVISION #1 | 05JULY |
|-------|--------------------|--------|
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ORIGINAL ISSUE DATE

Issue For Permit

PROJECT NUMBER

1103

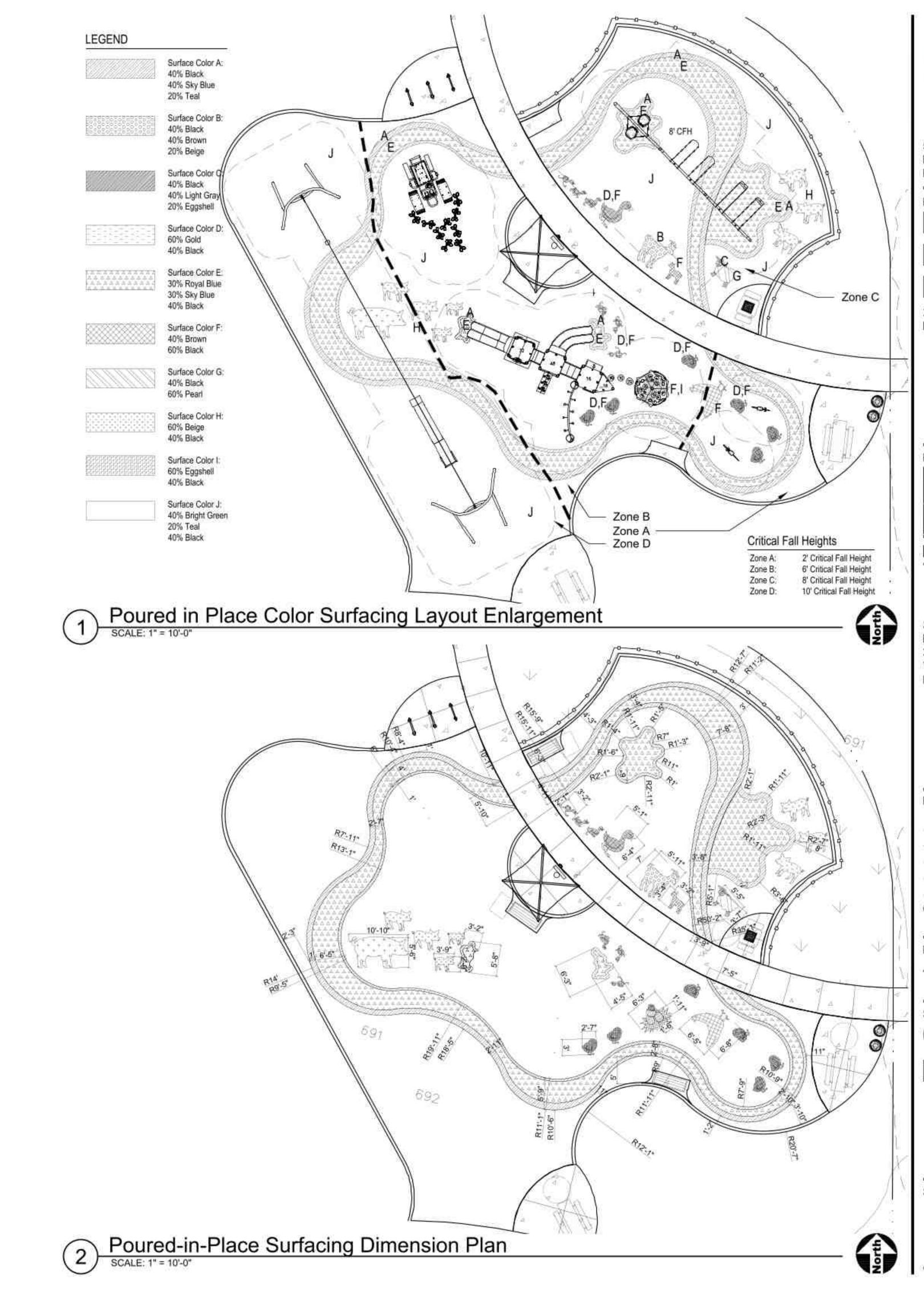
SHEET TITLE

Construction Details

SHEET NUMBER

7.5

04APRIL2023





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Issue For Permit 04APRIL2023

PROJECT NUMBER

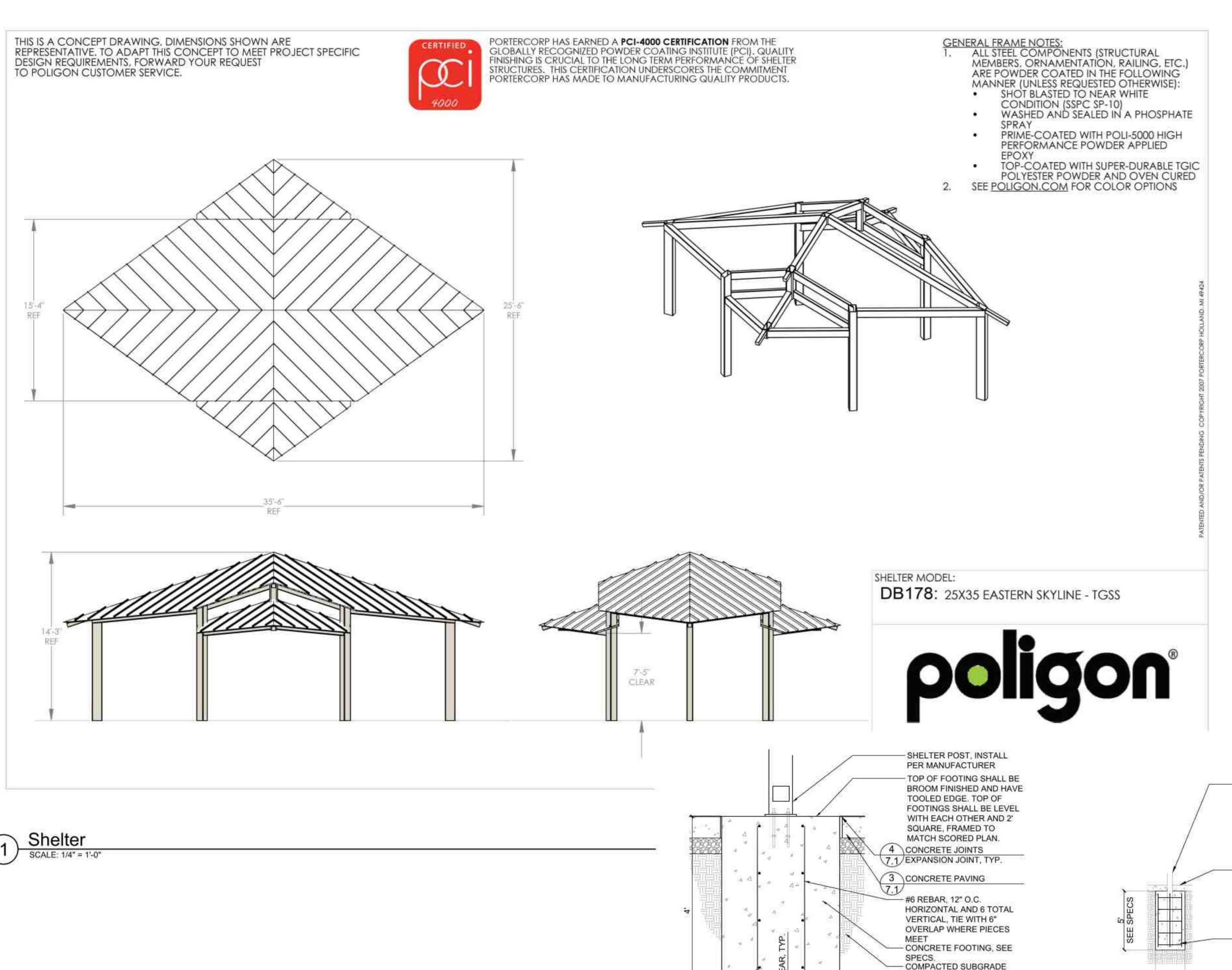
1103

SHEET TITLE

Construction Details

SHEET NUMBER

7.2



SHELTER NOTES:

MANUFACTURER: POLIGON, A PRODUCT OF PORTERCORP. AS BASIS OF DESIGN.

 CONTRACTOR TO PROVIDE ALL NECESSARY MATERIALS AND EQUIPMENT FOR A COMPLETE INSTALLATION.

2. CONTRACTOR TO TAKE DELIVERY OF SHELTER AND INSTALL COMPLETE. UNCRATE, CHECK, DELIVER TO SITE AND FULLY ASSEMBLE AND INSTALL.

 ALL METAL COMPONENTS TO BE FACTORY POWDERCOATED.

 SEE SPECIFICATION FOR DETAILED SHELTER ROOF NOTES. SUBMIT SAMPLES TO OWNER'S REPRESENTATIVE FOR APPROVAL.

 SHELTER POSTS TO SET ON FOOTING AND ATTACHED TO ANCHOR BOLT SUPPLIED WITH SHELTER.

 SHELTER BID ITEMS TO INCLUDE COMPLETE SHELTER INCLUDING FOOTINGS, FILL & COMPACTION UNDER SHELTER,

 FOLLOW MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS. ROOF COLOR: ROMAN BLUE, POST COLOR: SURREY BEIGE, TONGUE AND GROVE COLOR CALVARY.

 CARE SHALL BE TAKEN TO PREVENT SCRATCHING AND MARRING OF PAINT ON STEEL CONNECTORS. ANY BLEMISHES SHALL BE TOUCHED-UP WITH MATCHING PAINT PRIOR TO FINAL ACCEPTANCE.

-FRAME POST FOR SHADE

DETAILED INSTRUCTIONS.

-3500 P.S.I. CONCRETE

MANUFACTURER'S

ON SIZE OF SHADE.

FOOTING & REBAR PER

RECOMMENDATIONS, SEE SPECS. DEPTH DEPENDENT

STRUCTURE NOTE: SEE

FINISH GRADE

MANUFACTURER'S

SPECIFICATION FOR

BUFFALO GROVE PARK DISTRICT

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SHEET TITLE

Construction Details

SHEET NUMBER

7.4

04APRIL2023

3) Shade Structure Footing-Single - Alt. #1

SEE SPECS

MAXIMUM FOOTING DIMENSIONS SHOWN

FINAL FOOTING SIZE MAY BE LESS THAN 2'-6" SQ. BASED ON MANUFACTURER'S

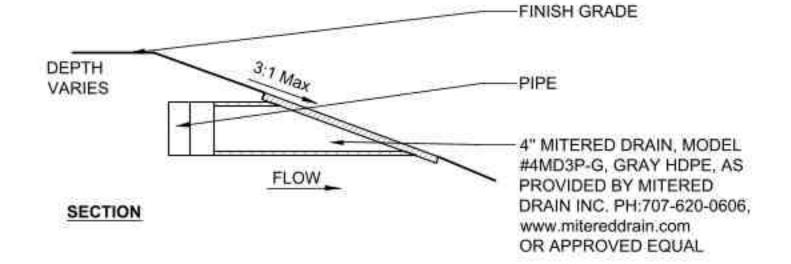
det-shelter-footing 12

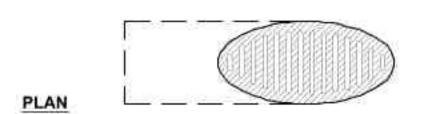
RECOMMENDATIONS FOR WIND LOAD.

2'-6" SC

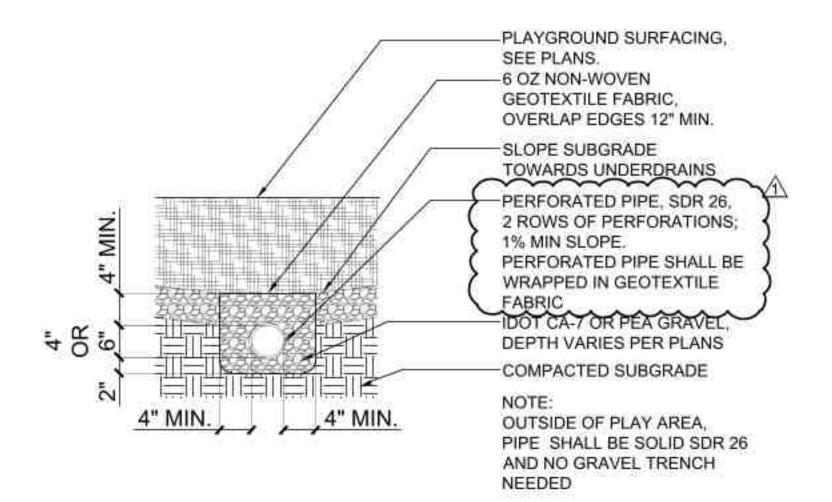
OR AS NOTED

Shelter Footing At Grade

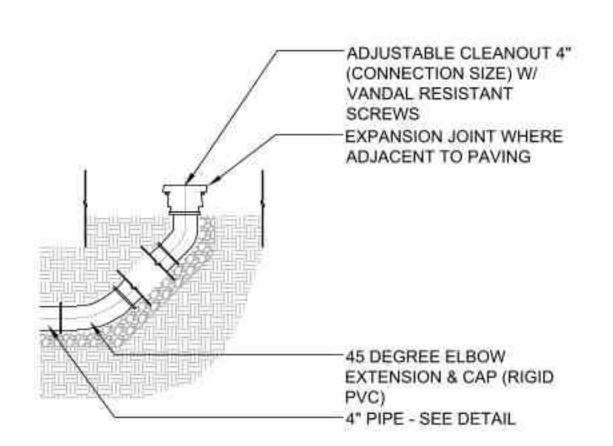




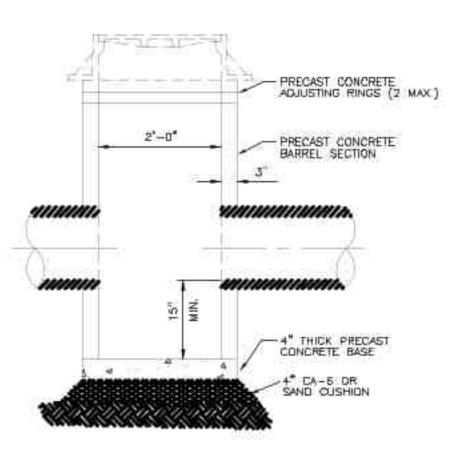
1) Mitered Drain SCALE: 1.1/2"=1"-0" d-mitered drain_8



Playground Underdrainage SCALE: 1* = 1'-0" d-playground underdrainge_12



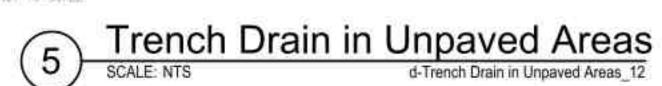
| (2) | Drain Cleanout - F | PIP |
|-----|--------------------|--------------------|
| (3) | SCALE: N.T.S | d-drain cleanout_1 |

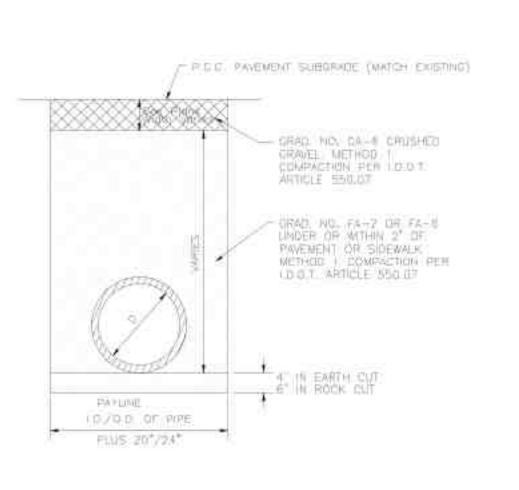


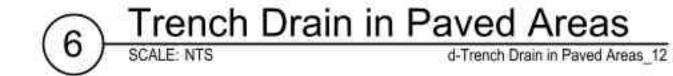
CATCH BASIN, 24" DIAMETER

(4) Catch Basin 2' Diameter SCALE: N.T.S. d-iDOT-Catchbasin24_12

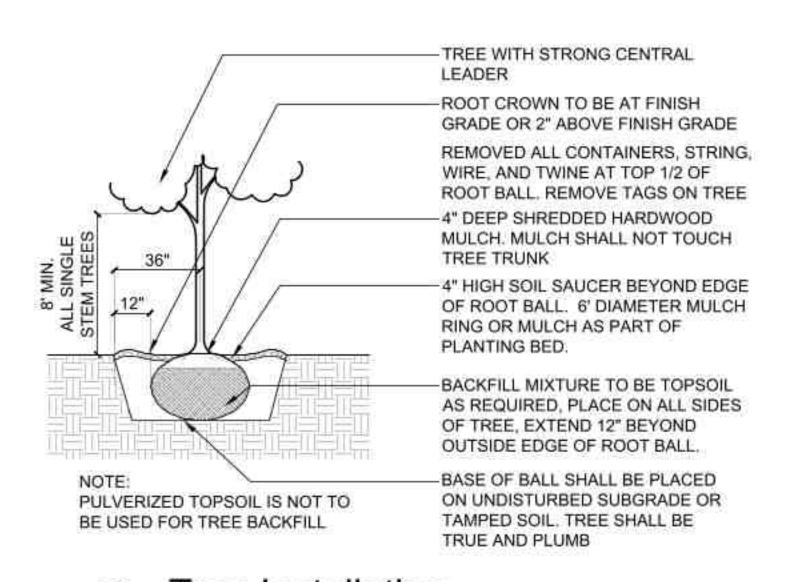
| PIPE DIAMETER | MAXIMUM TRENCH WIDTH AT TOP OF PIPE (W) | GRANULAR TRENCH BACKFILL CY/FT OF DEPTH (W/Z7) | - COMPACTED TOPSOIL |
|------------------|---|--|--|
| 6" | 3-2" | 9,117 | GROUND SURFACE |
| 用 | 3-2" | al117 | |
| 10 | 342T | 運用機 | |
| 10. | 5"-4" | 0.12 | EARTH BACKFILL JETTED IN PLACE |
| 15 | 3,-6, | 0.13 | |
| 188 | 3-15* | 0.34 | |
| 31, | 4"-4" | 0.46 | 12" OVER PUE PIPE |
| 245 | (41H81) | 0.177 | GRAVEL METHOD 1 |
| 27 | 4'-(1' | 0.78 | GOMPACTION PER LOCATI |
| 30" | 5"-3" | 98(49) | GRAD NO. CA-7, IL. 11 OR 1 13 CRAVEL OR LINESTONE |
| .33* | 6-0" | 0.22 | METHOD 1 COMPACTION PER |
| 30 | 6 - 4" | 0.23 | 47 IN EARTH DUT |
| 42" | 85=1115 | 0.38 | FWN, ME. 6" N ROCK CUT |
| 4B* | 7'-5" | 0.28 | LO /OD OF PIPE |
| 50" | 38"-7" | 0.32 | PUS 20724" |



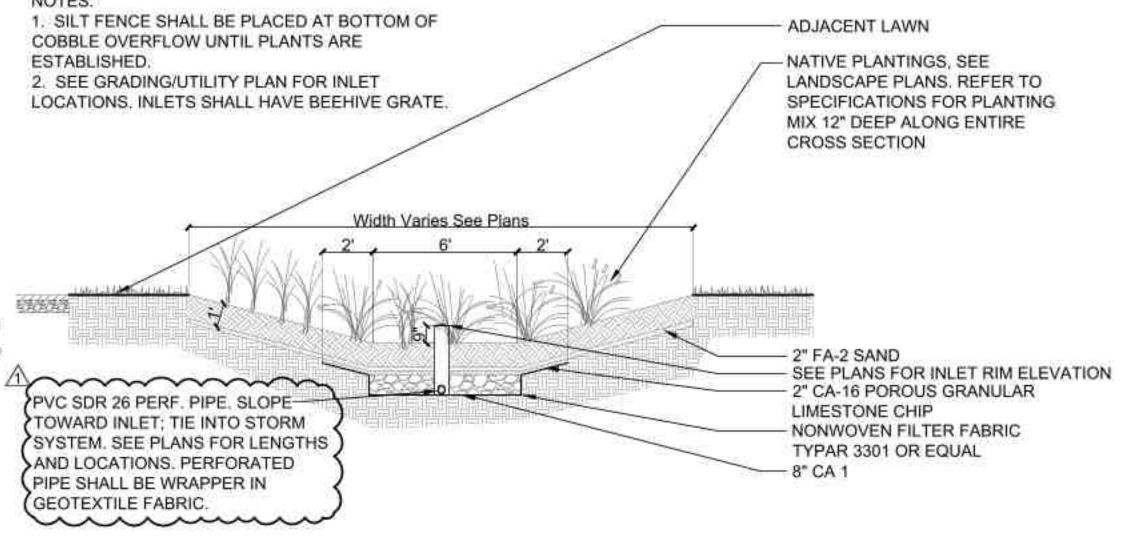




9







8 Rain Garden Section

SCALE: 1/4"=1"-0" d-plant-rain garden section_48.dwg



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REVISIONS

| PERMIT REVISION #1 | 05JULY202 |
|--------------------|-----------------------|
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| | PERMIT REVISION #1 /1 |

ORIGINAL ISSUE DATE

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1103

SHEET TITLE

Construction Details

SHEET NUMBER

7.6

04APRIL2023

EXHIBIT NO. 109 MATERIALS LIST

Date of revision: 9/23/19

Sanitary Sewer Material Specifications:

| Vater Distribution Material Specifi Water main pipe | |
|--|---|
| Transcription of the second of | Ductile Iron Pipe. Pipe class thickness—AWWA C150, minimum thickness, Class 52. Pipe—AWWA C151. Pipe lining—AWWA C104. Fittings—AWWA C153. Joints—mechanical and push-on, AWWA C111. Wrap—4 mil. X-Lam conforming to AWWA C105. A21.5 and AWWA C600. No 90-degree bends allowed. All stainless steel trim. |
| Valves | American Flow Control, Series 2500 resilient wedge gate valve, all sizes two inch to fourteen inch, counterclockwise to open, AWWA C500., AWWA C504. Clow AWWA C-504 Butterfly Valve for sixteen inch and above. Joint end—mechanical, AWWA C111. All stainless steel trim. |
| Valve Vault | All structures shall be monolithically precast with designed openings or mechanically cored in the field and shall have rubber boots conforming to ASTM C-923. Doghouse vaults are excluded from these requirements when permitted by Village Engineer. Size: For six and eight inch diameter valves, valve vaults shall have a forty-eight inch inside diameter, for pressure connections and valves ten inches and larger in diameter, valve vaults shall have a sixty inch inside diameter. All valve vault cones must be eccentric centers with valve properly aligned. |
| Castings | Neenah No. R-1772, embossed per Exhibit No. 401. |
| Fire Hydrant | Waterous Pacer Model WB67-250, AWWA C502, painted fire engine red above ground, with resilient wedge auxiliary gate valve. Nozzles, two at two and one half inch, one at four and one half inch, with threads conforming to National Standard Specifications. Frangible section (breakaway type) with the break line flange located one inch above finished grade. Joint end, six inch, mechanical or push-on. Stainless steel trim below ground. Auxiliary boxes and hydrants shall be a direct flange-to-flange connection. |
| Fire hydrant extension | Fire hydrant extensions and parts to be manufactured by Waterous only. All stainless steel trim. |
| Hydrant Valve Box \ Valve boxes | Hydrant Valve Box Tyler 664-S. Lid embossed "WATER." Rubber valve box stabilizer required. |
| Service Pipe | Copper tube, two inches and smaller, ASTM B88, Type K (1" minimum). Ductile iron, larger than two inches. Conform to Water main section above. Service upgrade for existing water main requires a stainless-steel tap repair clamp. Ford model FS1-CC, minimum length 15" long. |
| Corporation Stop | Mueller H15000, 1" minimum, AWWA C800. 1" Direct tap or 1 1/4" and larger shall use Ford FC202 stainless steel band, epoxy coated saddle. |
| Curb Stop | Copper service, Mueller H-15154. Ductile iron service, Resilient wedge counterclockwise to open, AWWA C500. Joint end-mechanical, AWWA C111. |
| Curb box | Copper service, Mueller H-10302. Ductile iron service, conform to Hydrant Valve Box section above. Ductile iron service, 6" and larger, conform to Valve Vault section above. |
| Copper to Copper Fittings | Mueller Company Model #H-15400. An all-flared coupling is required, no sweat joint or compression allowed. |
| Control of the contro | Parel PTCC style topping alleges American Plans Cont. 1 Cont. 1 Cont. |

| Reinforced concrete pipe—circular reinforcement, minimum Class 3, ASTM C76, with epoxy lining. PVC solid wall (SDR-26H) pipe—ASTM D-3034 for six to fifteen inches in diameter. |
|--|
| Reinforced concrete pipe—ASTM C443. PVC solid wall (SDR-26H) pipe—ASTM D-3212 for six to eighteen inches in diameter. |
| PVC solid wall (SDR-26H) pipe—ASTM D3034 for six to fifteen inches in diameter. |
| Steel pipe—ASTM A120, three-eighths inch minimum thickness. |
| Size: For sewer eighteen-inch diameter or less, manhole shall have a forty-eight inch inside diameter. For sewer twenty-one inch to thirty-six inch diameter, manhole shall have a sixty inch inside diameter. For sewer greater than thirty-six inch diameter, manhole shall have an offset riser pipe of forty-eight inch inside diameter. All structures shall be monolithically precast including bases and invert flow lines. |
| Neenah No. R-1772, with self-sealing lid and recessed pick hole, embossed per Exhibit No. 301. |
| |

| Structures | All structures shall be precast with designed openings or mechanically cored in the field. | | |
|---|--|--|--|
| Castings | Closed Lid, Type 1—Neenah No. R-1772, embossed per Exhibit No. 201, Open Lid, Type 1—Neenah No. R-1772, Standard B4.12 or any other barrier curb, Type 11—Neenah No. R-3170 (open curb box) Box height must be 6" minimum with 5" tapers to match curb height., Depressed barrier curb, Type 10—Neenah No. R-3205. Yard inlet - Neenah R-2579, convex grate. | | |
| Sewer Pipe Joints | Reinforced concrete pipe—ASTM C443 or C361. PVC solid wall (SDR-26H) pipe—ASTM D-3212 for six to eighteen inches in diameter. | | |
| Sump pump service connection pipe/sub surface drain pipe | 4" PVC solid wall sewer pipe SDR-35. Blind connections must be cored in storm sewer and pipe connection shall be made with a rubber boot and stainless-steel band. Sump pump per Exhibit No. 202 and underdrain per Exhibit No. 203. | | |

| Bedding | CA-11, Class B or better. All stone shall be crushed; rounded aggregate will not be permitted. The stone shall be compacted to 90% modified proctor density as required by ASTM D1557 or AASHTO T-180. Recycled materials permitted from IDOT approved sources meeting the correct gradations. |
|-----------------|--|
| Trench Backfill | CA-11, Class B or better. This item shall meet the requirements of Class B CA- 11, per the IDOT Standard Specifications for Road and Bridge Construction. All stone shall be crushed; rounded aggregate will not be permitted. The stone shall be compacted to 90% modified proctor density as required by ASTM D1557 or AASHTO T-180. Jetting of trenches is not permitted. Recycled materials permitted from IDOT approved sources meeting the correct gradations. |
| Adjustments | No more than two precast concrete adjusting rings with six-inch maximum height adjustment shall be allowed, minimum one 2" ring installed on new structures. Only one HDPE ring with a max of 2" may be used within the precast tolerances. Only precast concrete or HDPE adjustment rings permitted. |

around rings, but none between.

1/2" x 3.5" mastic to be used between all frames, rings, and structures. Mortar

| Detectable Warnings | Quick connect plates or bolted plates by Neenah Enterprises, Inc. Color shall be brick red. |
|---------------------|--|
| Concrete | In accordance with IDOT Standard Specifications for Road and Bridge Construction |
| Asphalt | In accordance with IDOT Standard Specifications for Road and Bridge Construction and Chapter 16.50.070 of the Village of Buffalo Grove Municipa Code |

- * The Village Engineer shall have the authority to approve the use of alternative materials than those specifically required by Exhibit 109 in the manner provided for in this Title. The Village Engineer may approve alternative materials that are not specifically required by this title when:
- 1. The materials or their components required by this title are no longer manufactured and available for purchase; and
- The alternative materials are generally consistent with requirements of this title, including but not limited to those standards relating to production, composition, safety, and aesthetics.

Testing Specifications:

(In addition to the requirements of IDOT's Standard Specifications for Road and Bridge Construction or the Standard Specifications for Water and Sewer Construction in Illinois)

| Storm Sewer | Cleaning and televising, with reporting, as directed by the Village Engineer |
|----------------|--|
| Sanitary Sewer | Cleaning and televising, with reporting, as directed by the Village Engineer |

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1103

SHEET TITLE

Construction **Details**

SHEET NUMBER

04APRIL2023

EXHIBIT NO. 109 MATERIALS LIST-VILLAGE OF BUFFALO GROVE

Ford FTSS style tapping sleeve. American Flow Control Series 2500 tapping

Pressure Connections

d-conc pay-N.T.S.

valve four inch minimum. All stainless steel trim.

| Project Type (From ab F | Project Category (From Above) | Media File #/Name | Project Category Cost | ADA Portion of Project Cate & ADA | A Dollars Requested |
|-------------------------|--------------------------------|-------------------------|-----------------------|-----------------------------------|---------------------|
| Recreation Facilities F | Playgrounds | Prairie_Grove_Playgrour | 107980 | 87463.8 | 81.00% |
| Recreation Facilities F | Playground installaion | Prairie_Grove_Bid | 51000 | 41310 | 81.00% |
| Recreation Facilities [| Design services | Upland_Design_Prairie_0 | 92953 | 9259.3 | 9.96% |
| Routes and Surfaces F | Play Surfaces/Playground Curb | Prairie_Grove_Bid | 218064 | 218064 | 100.00% |
| Routes and Surfaces S | Sidewalks and Walking Surfaces | Prairie_Grove_Bid | 89300 | 55812.5 | 62.50% |
| Routes and Surfaces S | Site Preparation | Prairie_Grove_Bid | 60000 | 12000 | 20.00% |
| | | | | | #DIV/0! |

#DIV/0! #DIV/0!

Total Project Cost619297Total ADA Portion of Project Cost423909.6Total % of ADA Dollars Requested68.45%