



Meeting of the Village of Buffalo Grove Planning and Zoning Commission

Regular Meeting
April 17, 2024 at 7:30 PM

Fifty Raupp Blvd
Buffalo Grove, IL 60089-2100
Phone: 847-459-2500

I. Call to Order

II. Public Hearings/Items For Consideration

Public Comment is limited to items that are not on the regular agenda. In accordance with Section 2.02.070 of the Municipal Code, discussion on questions from the audience will be limited to 5 minutes and should be limited to concerns or comments regarding issues that are relevant to Planning and Zoning Commission business. All members of the public addressing the Planning and Zoning Commission shall maintain proper decorum and refrain from making disrespectful remarks or comments relating to individuals. Speakers shall use every attempt to not be repetitive of points that have been made by others. The Planning and Zoning Commission may refer any matter of public comment to the Village Manager, Village staff or an appropriate agency for review.

1. Consideration of a Petition for Approval of a Preliminary Plan, an Amendment to the Special Use Approved by Ordinance No. 2018-002, and Variations from the Fence Code to Allow Site Improvements and Construction of Accessory Structures on the Buffalo Grove High School Property Located at 1100 W Dundee Road (Trustee Weidenfeld) (Staff Contact: Kelly Purvis)
2. Consideration of a Request for a Special Use for a Home Daycare at 4 Brucewood Court - Consideration of This Item Will be Continued to the May 15, 2024 PZC Meeting. (Trustee Weidenfeld) (Staff Contact: Kelly Purvis)

III. Regular Meeting

A. Other Matters for Discussion

B. Approval of Minutes

1. Planning and Zoning Commission - Regular Meeting - Mar 6, 2024 7:30 PM

C. Chairman's Report

D. Committee and Liaison Reports

E. Staff Report/Future Agenda Schedule

F. Public Comments and Questions

Public Comment is limited to items that are not on the regular agenda. In accordance with Section 2.02.070 of the Municipal Code, discussion on questions from the audience will be limited to 5 minutes and should be limited to concerns or comments regarding issues that are relevant to Planning and Zoning Commission business. All members of the public addressing the Planning and Zoning Commission shall maintain proper decorum and refrain from making disrespectful remarks or comments relating to individuals. Speakers shall use every attempt to not be repetitive of points that have been made by others. The Planning and Zoning Commission may refer any matter of public comment to the Village Manager, Village staff or an appropriate agency for review.

IV. Adjournment

The Planning and Zoning Commission will make every effort to accommodate all items on the agenda by 10:30 p.m. The Board, does, however, reserve the right to defer consideration of matters to another meeting should the discussion run past 10:30 p.m.

V. Action Items

The Village of Buffalo Grove, in compliance with the Americans with Disabilities Act, requests that persons with disabilities, who require certain accommodations to allow them to observe and/or participate in this meeting or have questions about the accessibility of the meeting or facilities, contact the ADA Coordinator at 459-2525 to allow the Village to make reasonable accommodations for those persons.



Action Item : Consideration of a Petition for Approval of a Preliminary Plan, an Amendment to the Special Use Approved by Ordinance No. 2018-002, and Variations from the Fence Code to Allow Site Improvements and Construction of Accessory Structures on the Buffalo Grove High School Property Located at 1100 W Dundee Road

Recommendation of Action

Staff recommends approval of the requests, subject to the conditions in the attached staff report.

School District 214 has petitioned the Village for approval of site improvement plans for Buffalo Grove High School (BGHS). The project will include substantial improvements to the functionality of the existing athletic fields, stormwater, and accessibility. The Buffalo Grove High School Campus is a little over 45-acres in area and zoned R-1 and R-E One-Family Dwelling Districts. The project is expected to be completed in three phases. D214 would like to proceed with approvals for Phase One and Phase Two of the project, which will be isolated to the areas north of the school building and the stadium.

The Planning & Zoning Commission (PZC) shall open the public hearing and take public testimony concerning the requests for approval of a preliminary plan, an amendment to the Special Use approved by Ordinance No. 2018-002, and Variations from the Fence Code requirements for residential districts related to fence heights on and adjacent to the athletic fields, to accommodate the proposed improvements to the BGHS properties located at 1100 W Dundee Road. The PZC shall make a recommendation to the Village Board concerning the requests.

ATTACHMENTS:

- Staff Report (PDF)
- Final Plan Set Public Hearing (PDF)

Trustee Liaison
Weidenfeld

Staff Contact
Kelly Purvis, Community Development

Wednesday, April 17, 2024

**VILLAGE OF BUFFALO GROVE
PLANNING & ZONING COMMISSION
STAFF REPORT**



MEETING DATE:	April 17, 2024
SUBJECT PROPERTY LOCATION:	1100 W Dundee Road (Buffalo Grove High School)
PETITIONER:	Andrew Phelps, STR Partners, on behalf of School District 214
PREPARED BY:	Kelly Purvis, Deputy Community Development Director
REQUEST:	Petition to the Village of Buffalo Grove for approval of a Preliminary Plan, an Amendment to the Special Use approved by Ordinance No. 2018-002, and Variations from the Fence Code requirements related to fence heights on and adjacent to the athletic fields, all to accommodate proposed site improvements and construction of accessory structures on the subject property.
EXISTING LAND USE AND ZONING:	The property is currently improved with a public high school, consists of multiple parcels and is zoned R-E and R-1, One-Family Dwelling Districts.
COMPREHENSIVE PLAN:	The 2009 Village of Buffalo Grove Comprehensive Plan calls for property to be Public/Semi Public.

BACKGROUND

School District 214 has petitioned the Village for approval of site improvement plans for Buffalo Grove High School (BGHS). The project will include substantial improvements to the functionality of the existing athletic fields, stormwater, and accessibility.

D214 held two neighborhood meetings on February 13 and February 15, 2024. There were approximately 20 attendees at each meeting. The project team provided an overview of the project and attendees asked several questions related to programming of the fields, the materials being used (turf vs grass), field maintenance, stormwater, construction schedule and site lighting. There were no concerns or objections expressed regarding the overall project.

At the March 18, 2024, Village Board meeting, D214 and their development team presented an overview of the concept plans. The Trustees indicated their support for the project and referred it to the PZC for a public hearing.

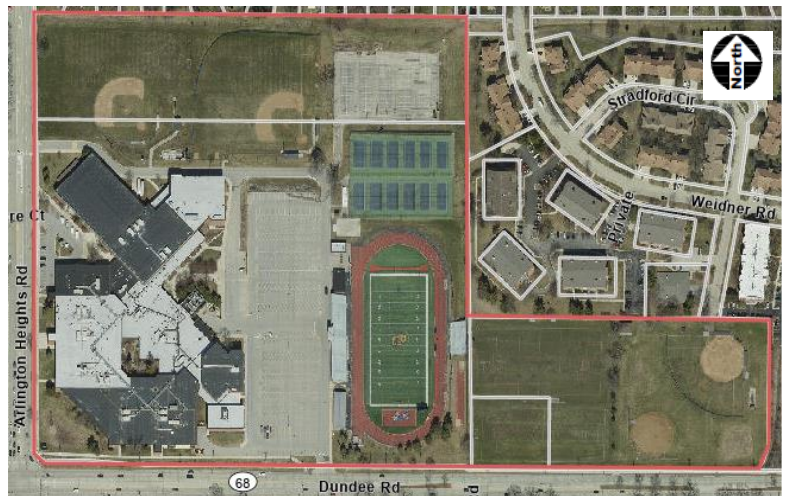


Figure 1. Site Aerial Buffalo Grove High School Campus

Attachment: Staff Report (1100 W Dundee Road - Special Use Amd., Fence Variation for BGHS)

As proposed, the project will require approval of a preliminary plan, an amendment to the Special Use approved by Ordinance No. 2018-002, and Variations from the Fence Code requirements for residential districts related to fence heights on and adjacent to the athletic fields. The following report provides a summary of the project and requests.

PROPOSED PLAN

The Buffalo Grove High School Campus is a little over 45-acres in area and zoned R-1 and R-E One-Family Dwelling Districts. The project is expected to be completed in three phases. D214 would like to proceed with approvals for Phase One and Phase Two of the project, which will be isolated to the areas north of the school building and the stadium. Phase Three of the project would tentatively consist of improvements to the stadium including replacement of the track and field materials, and a new visitors restroom/concession facility. The full scope for Phase Three is still under consideration at this time.

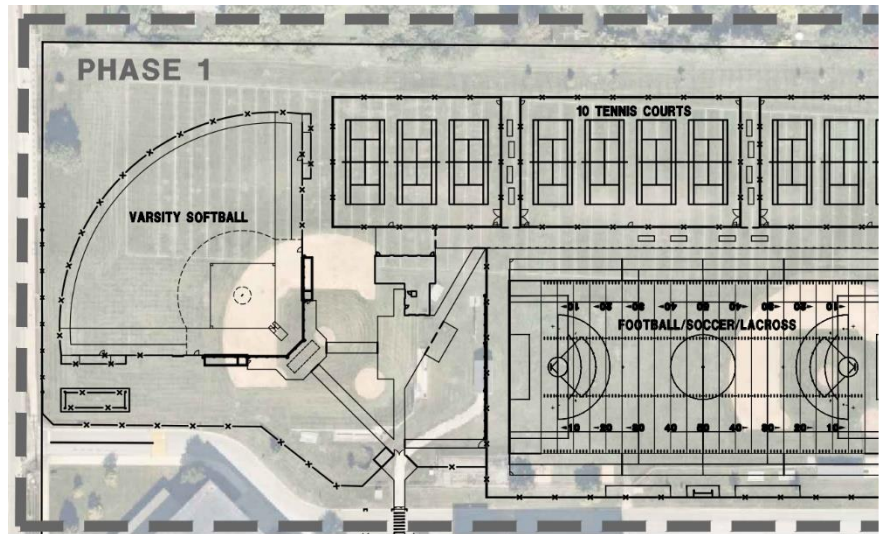


Figure 2. Phase One Site Improvement Plan

Phase One:

Phase one will be limited to the 7.22-acre area currently improved with a baseball and softball field. The existing baseball and softball fields will be removed, and in their place, the following improvements are proposed to be constructed: a new varsity softball field with modern safety netting, enclosed dugouts, and dedicated spectator seating; a new ticket booth and fencing for controlled access, alongside a concession building, a welcoming plaza and restroom facilities; 10 new tennis courts with spectator seating and an artificial turf multi-sport field. The School District would like to have Phase One of the project under construction in the summer/fall of 2024.

Phase Two:

Phase Two of the project will include approximately 6-acres in area, east of the baseball fields and north of the stadium. The area is currently improved with a surface parking lot/retention basin and 12 tennis courts. A new varsity baseball field with safety netting, enclosed dugouts and dedicated spectator seating, and a new surface parking lot with 105 spaces are proposed. Phase Two is expected to be under construction in the summer/fall of 2025.

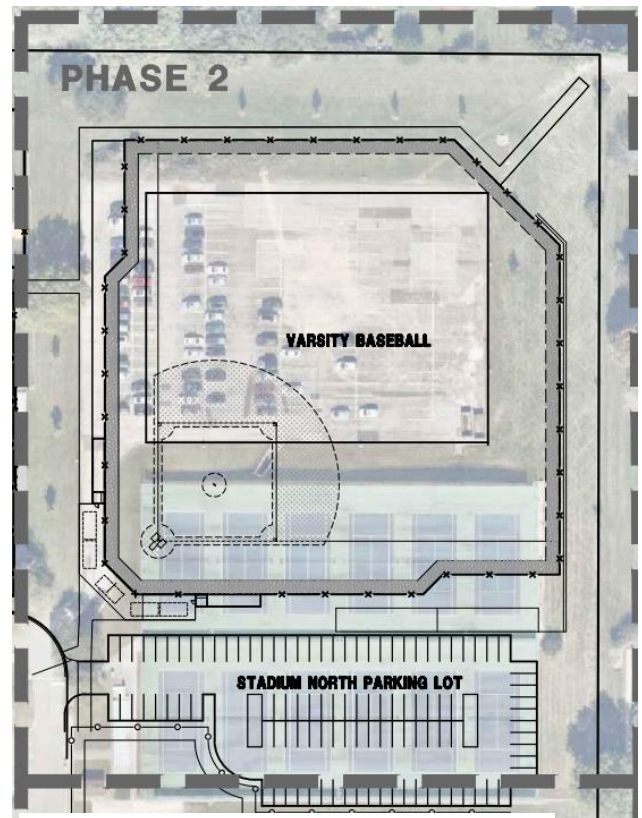


Figure 3. Phase Two Site Improvement Plan

PLANNING & ZONING ANALYSIS

Use:

Schools are Special Uses in all residential districts. The proposed modifications to the site require an amendment to the Special Use that was granted in 2018. The 2009 Comprehensive Plan indicates that this site should remain Public/Semi Public.

Setbacks and bulk requirements:

All proposed accessory structures (including the official's shelter, ticket booth, storage, dugout and concession buildings) will be constructed within the buildable area of the site (outside of required building setbacks) and will be below the maximum height of 15-feet for accessory structures in residential districts.



Figure 4. Aerial of Phase One & Two Improvements



Figure 5. Aerial Showing Welcoming Plaza, Accessory Structures, and Safety Fencing

Fence Variations:

Village Code limits fence height in residential districts to no taller than 6 feet. New 30-foot-tall safety fencing is proposed behind the bases on the softball and baseball fields and at both ends of the multi-sport field. In addition, a 10-foot chain link fence will surround each grouping of tennis courts. Lastly, there is an existing 10-foot chain link fence in need of repair/replacement that runs along the perimeter of the athletic fields and separates the school property from the surrounding residential lots. The Village Code does not provide any exceptions for safety fencing or fencing associated with recreational fields or courts, where taller fencing may be necessary. Staff is supportive of the fence variations as the fences are a safety feature and are typical for recreational facilities.

Building Materials:

As noted, several accessory structures are proposed for the project. All accessory structures will be constructed out of primarily brick and cast stone with standing seam metal roofs. Each building will be painted the school's colors of blue, orange and white (see Figure 5).

Parking:

A parking analysis prepared by Gewalt Hamilton Associates, Inc. (GHA) has been included in the packet. The BGHS campus is served by 655 parking spaces in four parking lots, one of which is solely for school administration. Pursuant to the Village Code, BGHS is required to have 578 parking stalls on site, based upon 2023-2024 enrollment of 1,957 students and a total of 251 faculty and teachers. Phase Two of the project will include the removal of the northernmost parking lot (179 spaces) and the construction of a new surface parking lot with approximately 105 parking spaces (net loss 74 spaces). Following completion of Phase Two, the BGHS Campus will retain 581 parking stalls, which complies with the Village Code requirements. The parking analysis also concluded that at peak demand, approximately 525 parking stalls will be needed, leaving 10% of the parking supply unoccupied. Additional accommodation may be needed for large events.

Vehicular Access and circulation:

The school has three full access driveways; a full signalized access on W Dundee Road, and two unsignalized accesses along the east side of Arlington Heights Road. There will be no change to vehicular access or circulation proposed as part of Phase One or Two of the project.

Landscaping:

A preliminary landscape plan has been provided for Phase One and Two of the project. The plan includes the installation of a significant number trees, shrubs, perennials, and ornamental grasses throughout the site. New landscaping will frame the athletic fields, and trees will be planted in the new surface parking lot in the landscape islands. The Village Forester has reviewed and approved the landscape plan as presented.

Lighting:

New pole lighting is proposed near the concession area, the multi-purpose field, and in the new surface parking lot. All lighting fixtures will be screened and will comply with the Village's illumination standards. It is anticipated that most practices and games will finish by 7:30pm; the field lighting will be turned off when the fields are not in use.

Noise Analysis:

A noise analysis was conducted by Thunder Hearing & Sound to evaluate the impact of relocating the fields at Buffalo Grove High School and the addition of new PA speakers. The analysis included sound modeling for the tennis courts, softball and baseball fields, the proposed PA speakers, and crowd noise. The modeling was based upon the worst-case source data and concluded that a total source level of 2-5dB greater than the current ambient noise levels (mostly from traffic and planes overhead) can be expected and would result in no impact to a slight impact for nearby residents.

Signage:

No new signage is proposed with the project.

Stormwater & Engineering:

The project will include extensive site regarding and enhanced stormwater management systems. At this time, there are minimal concerns as it relates to stormwater provisions. The proposed project has accounted for the necessary stormwater provisions and is currently in the MWRD permitting process.

DEPARTMENTAL REVIEWS

Village Department	Comments
Engineering	The Village Engineer has reviewed the preliminary engineering plans and does not have any concerns.
Fire	The Fire Department has reviewed the plans and does not have any concerns.

Building	The Building Division has reviewed the plans and does not have any concerns.
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SURROUNDING PROPERTY OWNERS

Pursuant to Village Code, the surrounding property owners within 250 feet were notified and two public hearing signs were posted on the subject property. The posting of the public hearing signs and the mailed notifications were completed within the prescribed timeframe as required. As of the date of this Staff Report, there have been no questions or concerns received by staff.

STANDARDS

A. All special uses shall meet the following criteria:

1. The special use will serve the public convenience at the location of the subject property; or the establishment, maintenance or operation of the special use will not be detrimental to or endanger the public health, safety, morals, comfort, or general welfare;
2. The location and size of the special use, the nature and intensity of the operation involved in or conducted in connection with said special use, the size of the subject property in relation to such special use, and the location of the site with respect to streets giving access to it shall be such that it will be in harmony with the appropriate, orderly development of the district in which it is located;
3. The special use will not be injurious to the use and enjoyment of other property in the immediate vicinity of the subject property for the purposes already permitted in such zoning district, nor substantially diminish and impair other property valuations with the neighborhood;
4. The nature, location and size of the buildings or structures involved with the establishment of the special use will not impede, substantially hinder, or discourage the development and use of adjacent land and buildings in accord with the zoning district within which they lie;
5. Adequate utilities, access roads, drainage, and/or other necessary facilities have been or will be provided;
6. Parking areas shall be of adequate size for the particular special use, which areas shall be properly located and suitably screened from adjoining residential uses, and the entrance and exit driveways to and from these parking areas shall be designed so as to prevent traffic hazards, eliminate nuisance and minimize traffic congestion in the public streets.

B. The Planning & Zoning Commission or the Corporate Authorities may approve variations to the Fence Code where sufficient evidence has been provided that all of the following criteria have been met:

1. The plight of the owner is due to unique circumstances;
2. The proposed variation will not alter the essential character of the neighborhood;
3. There are practical difficulties or particular hardships in carrying out the strict letter of this Chapter which difficulties or hardships have not been created by any person presently having an interest in the property; and
4. The proposed variation will not be detrimental to the public health, safety and welfare.

The petitioner's responses to each of the above standards are attached for the Commission's review.

STAFF RECOMMENDATION

Staff recommends **approval** of a preliminary plan, an amendment to the Special Use approved by Ordinance No. 2018-002, and Variations from the Fence Code requirements for residential districts related to fence heights on and adjacent to the athletic fields, to accommodate the proposed improvements to the BGHS properties, subject to the conditions in the suggested PZC Motion below due to the following reasons:

- The proposed improvements are designed to serve the existing programming needs for the current student population;
- The proposed improvements will improve site drainage, accessibility, and functionality of the athletic fields;
- The fence variations requested are reasonable, increase the safety of students and spectators, are typical for recreational fields and facilities, and will not impact the character of the surrounding neighborhood.

ACTION REQUESTED

The Planning & Zoning Commission (PZC) shall open the public hearing and take public testimony concerning the requests for approval of a preliminary plan, an amendment to the Special Use approved by Ordinance No. 2018-002, and Variations from the Fence Code requirements for residential districts related to fence heights on and adjacent to the athletic fields, to accommodate the proposed improvements to the BGHS properties located at 1100 W Dundee Road. The PZC shall make a recommendation to the Village Board concerning the requests.

Suggested PZC Motion:

The PZC recommends approval of a preliminary plan, an amendment to the Special Use approved by Ordinance No. 2018-002, and Variations from the Fence Code requirements for residential districts related to fence heights on and adjacent to the athletic fields, to accommodate the proposed improvements to the BGHS properties located at 1100 W Dundee Road, subject to the following conditions:

- 1. The proposed improvements shall be constructed in substantial conformance with the plans attached as part of the petition.*
- 2. The Final Engineering plans shall be submitted in a manner acceptable to the Village.*
- 3. Any directional or incidental signage added to the site shall be reviewed administratively by staff.*
- 4. Landscaping on the property shall be maintained in accordance with the approved landscape plan in perpetuity.*
- 5. All light fixtures shall be appropriately screened to avoid glare into surrounding residential properties and field lighting shall be turned off when not in use.*

ATTACHMENTS

- Narrative Description
- Plat of Survey
- Site Plans
- Preliminary Engineering Plans
- Renderings
- Elevations

- Landscape Plan
- Tree Preservation Plan
- Photometric Plan
- Light Fixture Cut Sheets
- Fencing Cut Sheets
- Parking Analysis
- Noise Analysis
- Response to Special Use & Fence Variation Standards
- Ordinance No. 2018-002



STR PARTNERS LLC
 350 West Ontario Street
 Suite 200
 Chicago IL 60654
 312.464.1444
 www.strpartners.com

Project Description and Narrative Statement

Buffalo Grove High School Athletic Field Renovations Phase 1 & 2

Township High School District 214 is embarking on a significant upgrade to the area of the existing baseball fields and stormwater retention basin on the north side of Buffalo Grove High School. This area, known as the "north shelf", was initially shaped by the disposal of excavation spoils from the school's original construction in 1972, and has seen little change since. Currently, after rainfall, the poor drainage system results in the fields remaining waterlogged for up to two weeks, leading to disruptions in the schedules of athletic teams and the mandatory physical education classes for the school's 2,000 students. Moreover, the site's compliance with the Americans with Disabilities Act (ADA) is compromised due to inadequate grading around the fields, which poses accessibility challenges for spectators. Addressing these issues through the proposed renovations will not only resolve the longstanding problems associated with drainage and accessibility but will also significantly enhance the functionality and inclusivity of the school's outdoor facilities.

The renovation project is designed to tackle the existing issues through comprehensive site regrading and the installation of advanced stormwater management systems. Beyond addressing these foundational concerns, the project ambitiously seeks to transform the area into an attractive hub for both athletes, students, and spectators. Key enhancements include the creation of premier varsity softball and baseball fields, equipped with brick backstops and modern safety netting, enclosed dugouts, and dedicated spectator seating. Enhancing visitor convenience and the overall experience, the plan incorporates a new ticket booth and strategic fencing for improved access control, alongside a concessions building with a welcoming plaza and restroom facilities—thereby introducing essential amenities to this segment of the campus. Additionally, the introduction of new tennis courts with areas specifically allocated for spectators and an artificial turf multi-sport field caters to the needs of the burgeoning athletics program and physical education classes, marking a significant step forward in fostering an inclusive and vibrant sports culture.

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GREMLEY & BIEDERMANN, INC.

PROFESSIONAL ILLINOIS LAND SURVEYORS

4505 N. Elston Avenue Chicago, Illinois 60630
 Telephone: (773) 685-5102 Fax: (773) 286-4184
 Illinois Land Surveyor Corporation No. 16
 License No. 184-002761

Plat of Survey

Parcel 1: The Southwest Quarter of the Southwest Quarter of Section 5, Township 42 North, Range 11, East of the Third Principal Meridian, in Cook County, Illinois.

Parcel 2: That part of the South Half of the East Half of the Southwest Quarter of Section 5, Township 42 North, Range 11, East of the Third Principal Meridian, bounded by a line described as follows: beginning at the Southwest corner of the South Half of the East Half of said Southwest Quarter; thence North along the West line thereof, 475.0 feet; thence East parallel with the South line of said Southwest Quarter, 667.0 feet; thence South parallel with the West line of the South Half of the East Half of said Southwest Quarter, 475.0 feet to a point on the South line of said Southwest Quarter; thence West along the South line of the Southwest Quarter of said Section 5, 887.0 feet to the point of beginning, excepting herefrom the South 50.0 feet thereof, in Cook County, Illinois.

Excluding therefrom Parcel 3: Portion of land quit claim deed to the State of Illinois in document number 21356006 recorded December 31, 1970, described as follows: that part of the Southwest Quarter of the Southwest Quarter of Section 5, Township 42 North, Range 11, East of the Third Principal Meridian, in Cook County, Illinois, described as follows: beginning at a point on the East line of the West Half of the Southwest Quarter of said Section 5, distant 33 feet North of the South line of Section 5; thence West along a straight line parallel and distant 33 feet North of said South line of said Section 5 for a distance of 1274 feet, more or less, to a point, said point being 33 feet East of the West line of said Section 5; thence North along a straight line parallel and distant 33 feet East of the West line of said Section 5 for a distance of 1285 feet, more or less, to a point on the North line of the Southwest Quarter of the Southwest Quarter of said Section 5; thence East along the North line of the Southwest Quarter of said Section 5 for a distance of 17 feet to a point; thence South for a distance of 1228 feet, more or less, to a point, said point lying 50 feet East of the West line of said Section 5 and 80 feet North of the South line of said Section 5; thence Southeast along a straight line, a distance of 35.36 feet to a point, said point lying 65 feet North of the South line of said Section 5 and 75 feet East of the West line of said Section 5; thence East along a straight line parallel with and 65 feet distant from the South line of said Section 5, a distance of 125 feet; thence Southeast, a distance of 175.64 feet to a point, said point lying 50 feet North of the South line of said Section 5 and 375 feet East of the West line of said Section 5; thence East along a straight line, parallel and distant 50 feet North of the South line of said Section 5 for a distance of 932 feet, more or less, to a point, said point lying on the East line of the West Half of the Southwest Quarter of said Section 5, distant 50 feet North of the South line of said Section 5; thence South along the said East line for a distance of 17 feet to the point of beginning, in Cook County, Illinois.

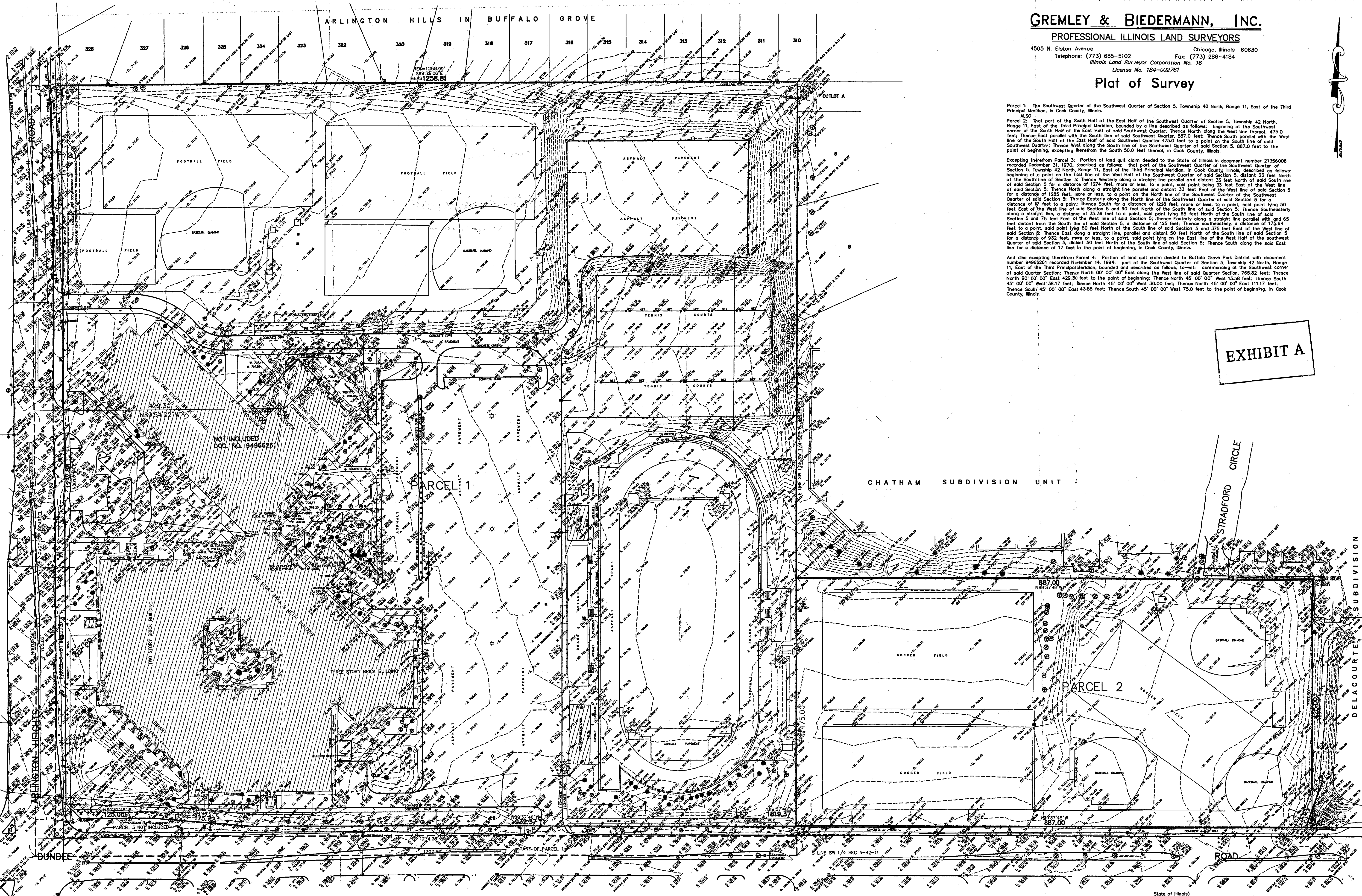
And also excepting therefrom Parcel 4: Portion of land quit claim deed to Buffalo Grove Park District with document number 9496261 recorded November 14, 1994: part of the Southwest Quarter of Section 5, Township 42 North, Range 11, East of the Third Principal Meridian, bounded and described as follows, to-wit: commencing at the Southwest corner of said Quarter Section; thence North 00° 00' 00" East along the West line of said Quarter Section, 765.82 feet; thence North 90° 00' 00" East 429.30 feet to the point of beginning; thence North 45° 00' 00" West 13.58 feet; thence North 45° 00' 00" West 38.17 feet; thence North 45° 00' 00" West 30.00 feet; thence North 45° 00' 00" East 111.17 feet; thence South 45° 00' 00" East 43.58 feet; thence South 45° 00' 00" West 75.0 feet to the point of beginning, in Cook County, Illinois.

EXHIBIT A

CHATHAM SUBDIVISION UNIT

STRADFORD CIRCLE

DELA COURTE SUBDIVISION



PAGE 1 OF 2

ORDER NO. 1011914
 SCALE: 1" = 50' ±
 DATE: OCTOBER 30, 2001
 ADDRESS: BUFFALO GROVE HIGH SCHOOL
 ORDERED BY: SETON ENGINEERS

Distances are marked in feet and decimal parts thereof. Compare all points BEFORE building by same and at once report any differences BEFORE damage is done.
 For easements, building lines and other restrictions not shown on survey plot refer to your abstract, deed, contract, title policy and local building line regulations.

NO dimensions shall be assumed by scale measurement upon this plat.
 Unless otherwise noted hereon the Bearing Basis, Elevation Datum and Coordinate Datum if used is ASSUMED.
 COPYRIGHT GREMLEY & BIEDERMANN, INC. 2001 "All Rights Reserved"

UTILITY WARNING

The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes NO guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

Call DIGGER - (312) 744-7000 within the City of Chicago.
 Outside of the City of Chicago call J.U.L.I.E. (800) 892-0123 prior to construction or excavation.

SUBJECT TO EASEMENTS PER DOCUMENT NO. 21455853 & 86586131

State of Illinois

County of Cook

We, GREMLEY & BIEDERMANN, INC. hereby certify that we have surveyed the above described property and that the plat hereon drawn is a correct representation of said survey corrected to a temperature of 62° Fahrenheit.

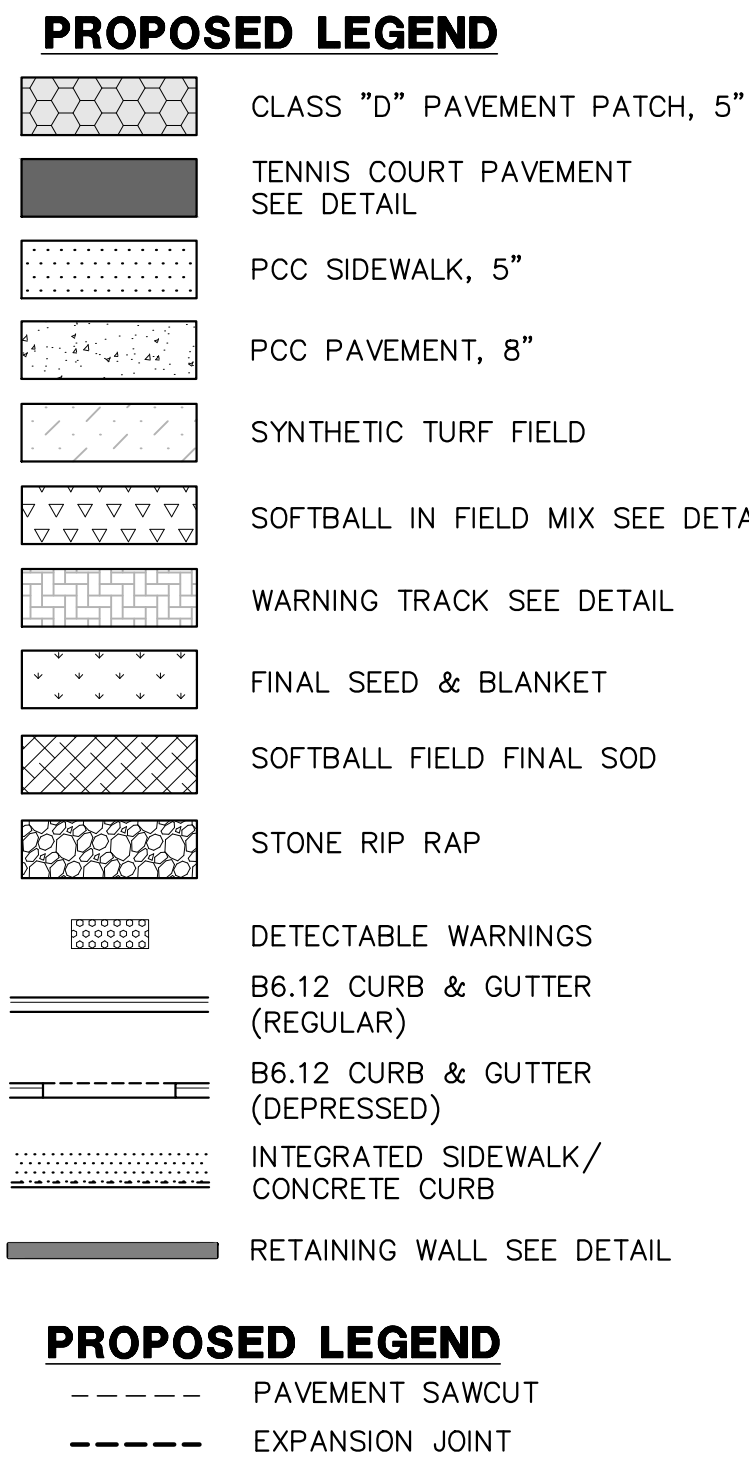
Field measurements completed on October 30, 2001.

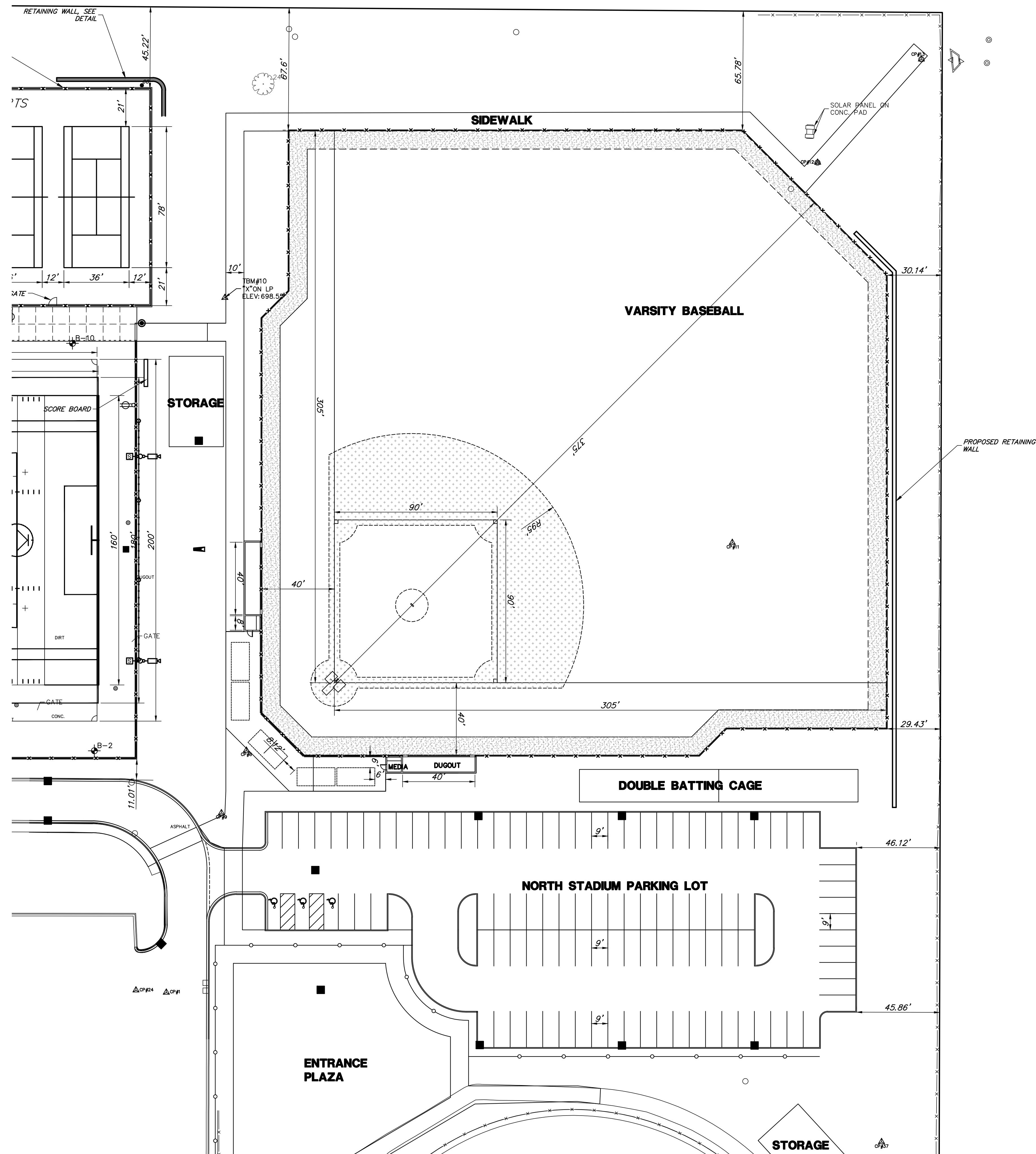
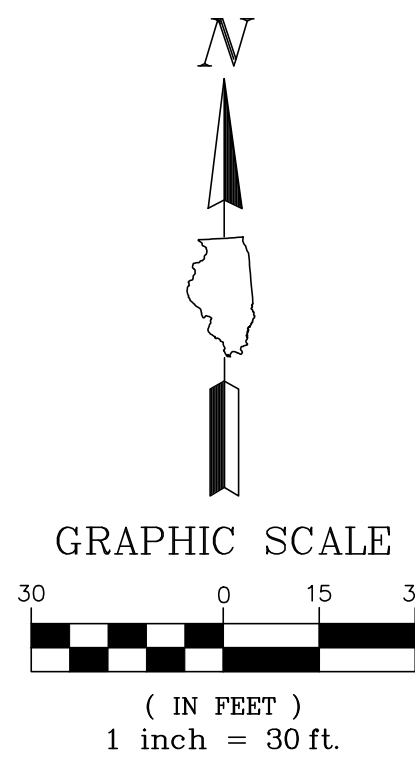
Signed on Nov 8, 2001

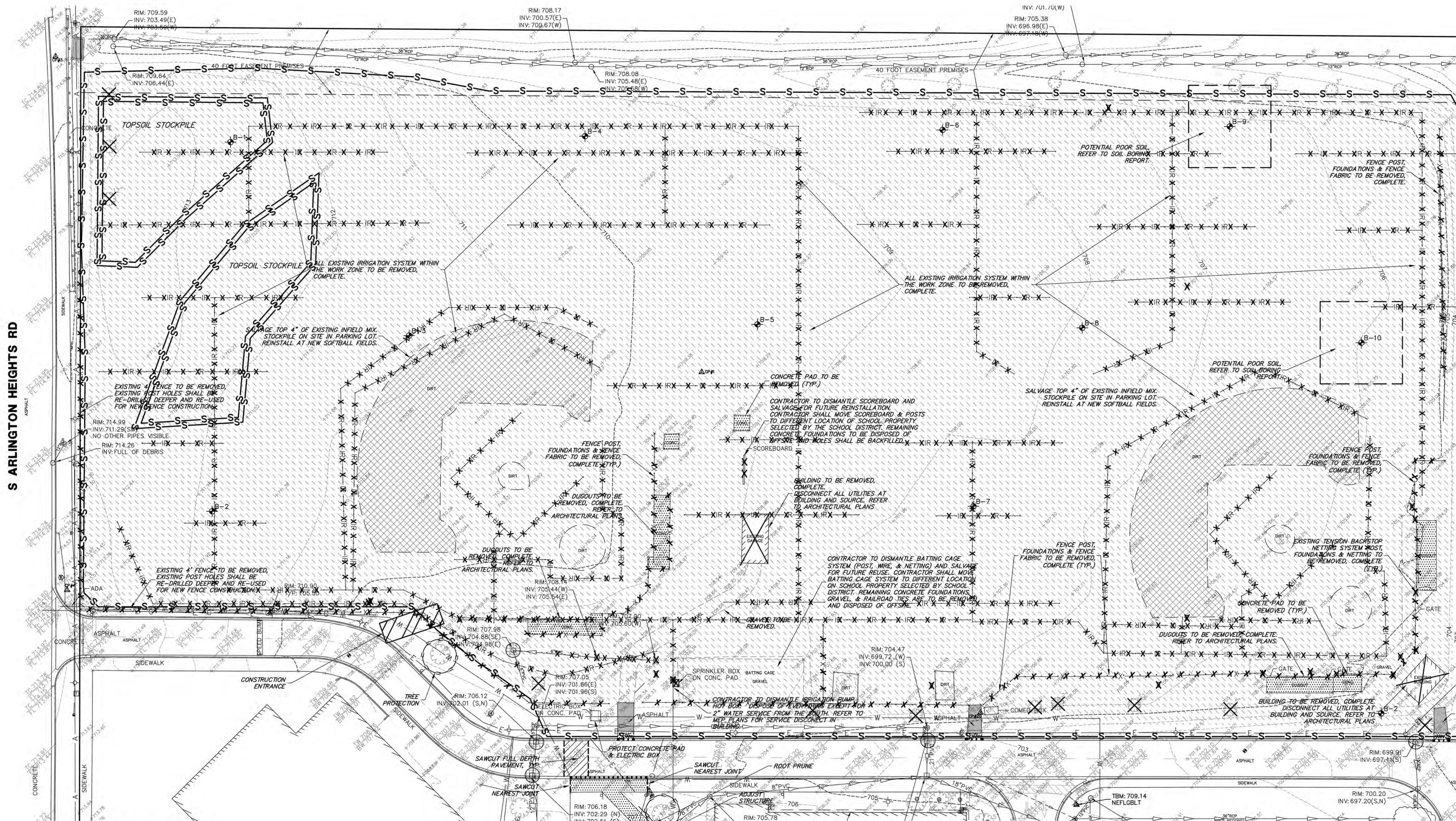
By:

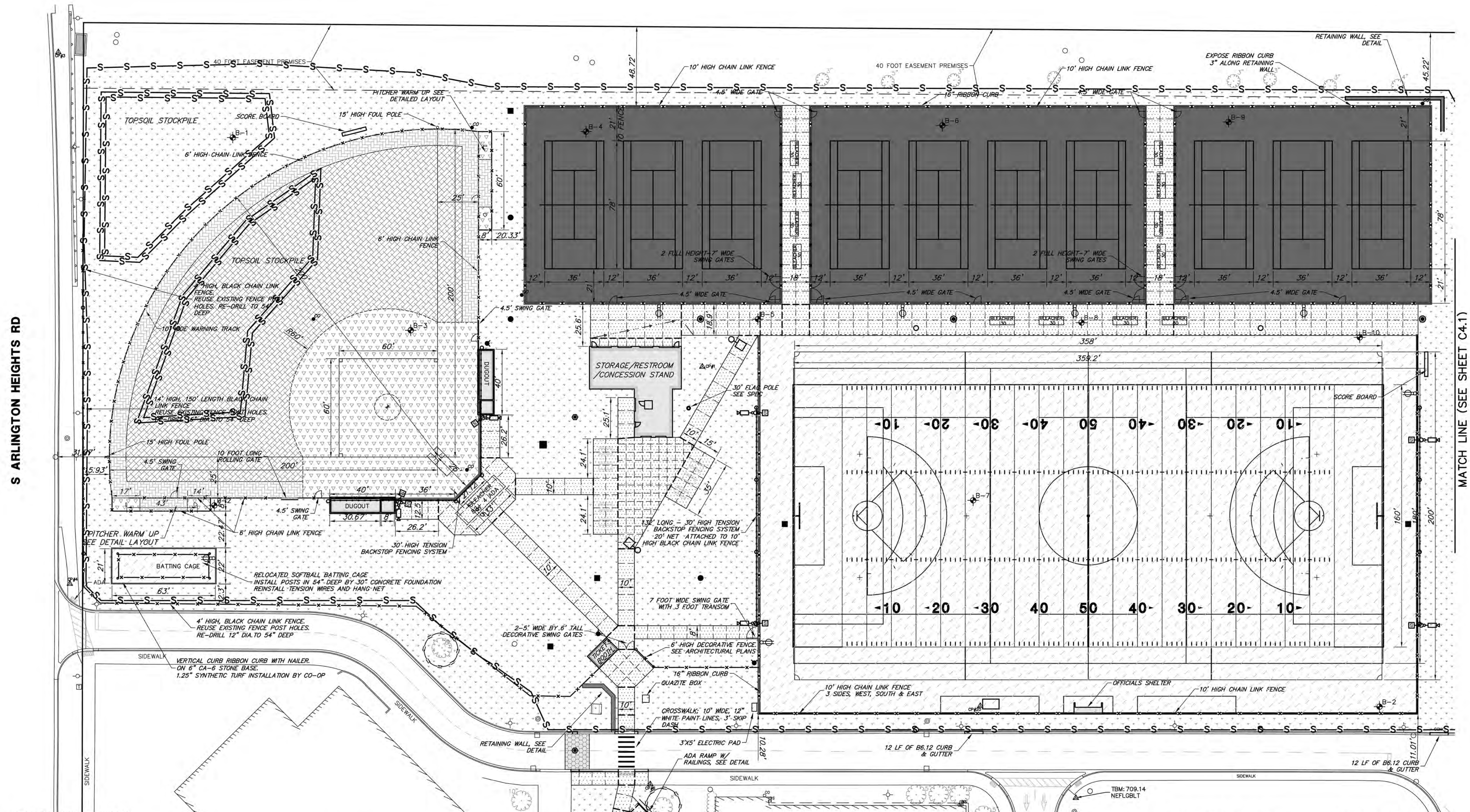
Professional Illinois Land Surveyor No. 2879

My License Expires November 30, 2002
 This professional service conforms to the current Illinois minimum standards for a boundary survey.









GEOMETRIC AND PAVING PLAN

- All pavement dimensions are to edge of pavement, unless otherwise noted. E=edge of pavement, B=back of curb, F=face of curb. Radii dimensions are to back of curb. Tennis court dimensions are from edge of play lines to fence line.
- Install concession stand, back stop wall, dugouts, ticket booth, officials storage shelter, and storage building. Refer to Architectural and MEP plans for design and utilities.
- Install all curb and sidewalk as shown. Note some curbs require reverse pitch gutter. Dowel new sidewalk and curb to existing and proposed curbs per general notes. When constructing a carriage walk, the proposed sidewalk contraction and expansion joints shall align with existing curb joints. Note some sidewalks have thickened edges similar to carriage walks. This occurs along multi-sport field.
- Provide 1.90% cross slope and 4.5% maximum longitudinal slope on all sidewalks and pedestrian path ways unless otherwise indicated. Illinois accessibility code requires a maximum constructed cross slope of 2.00% and longitudinal slope of 5.00%.
- Install chain link fencing, fencing and netting, foul pole, football posts and soccer anchor collar. Note some fencing requires ribbon curbs. See specific fencing details for each respective sport or location for detailed height pole spacing and netting details. Refer to specifications for additional requirements. Note fence near the ticket booth area is a decorative fence, refer to architectural plans for pier design and civil plans for fence details.
- Install tennis court pavement as shown. Refer to detail sheet for specific pavement sections, fencing, net post and general note sheet for construction, testing and compaction requirements.
- Synthetic turf field and batting cage area. Prepare subgrade - noiler curb stone base, underdrains, stone void storage and rough grade. Co-op bid contractor will fine grade and install synthetic turf.
- Varsity softball. Install underdrains, salvaged skin infield, new warning track and bases. See details.
- All pavement markings shall be paint, color as noted, in accordance with Section 780 of the IDOT Standard Specifications. (Two single applications, 16 mils each required).

- Site pavement marking shall be coordinated with Site engineer. Contractor shall notify site engineer 48 hrs prior to installing pavement markings.
- Install retaining wall as shown. Refer to detail sheet for material and design requirements.
 - Installed salvaged softball batting cage net system within new batting cage area. Co-op bid contractor will fine grade and install synthetic turf.
 - Install flag pole. Refer to specifications for additional information.
 - Contractor to order, erect, install, and anchor bleachers 12 mobile units (Tennis/Multisports Field & one grandstand softball field bleacher). Refer to specifications for bleacher models, manufacturer, and installation requirements.
 - Install transformer pad as shown. Pad shall be set 6" above finished grade. Refer to MEP plans for final pad size and design requirements.
 - Contractor shall install temporary erosion control seed and blanket as necessary to meet soil erosion and sediment control requirements. Refer to notes and details throughout the plan set for specific material requirements.
 - For final restoration, the contractor shall be responsible for restoring all disturbed turf areas and proposed turf areas as follows:

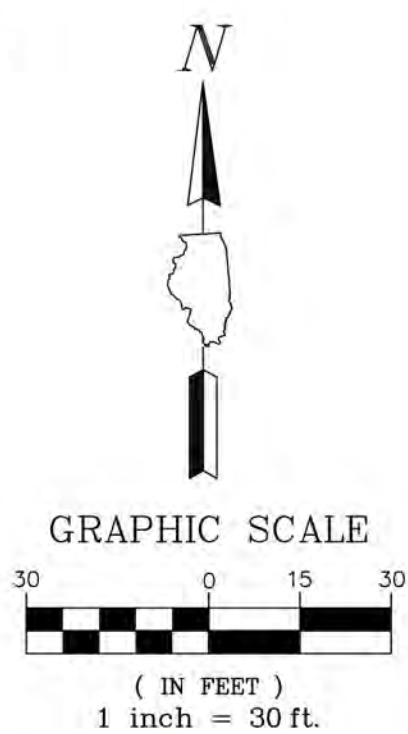
- Refer to Landscape plans for plant and tree material and installation requirements.
- Refer to civil plans and specifications for topsoil, seed and sod material and restoration requirements.
- Prior to placement of topsoil restoration area subgrade material shall be roto-tilled and re-compacted to a maximum of 80% standard proctor to a depth of 6".
- Spread a minimum of 6" of existing site salvaged screened topsoil or new pulverized topsoil on all disturbed areas. Compact to 80% standard proctor.
- Topsoil must be free of litter, brush, rocks and earth clods of greater than 3" inch in any dimension. Contain between 3%-8% organic matter, 25%-35% clay, and 30%-40% sand content. pH shall be between 6.5 and 7.5. Contractor shall test topsoil to be placed as well.
- Apply fertilizer per specifications.
- Roto-till fertilizer into the topsoil prior to final restoration vegetation to 6" depth. Refer to specifications for detailed fertilizer, seed and sod requirements.
- General open area restoration as follows:
 - Field of Dreams Gameday Mixture 70% Kentucky / 30% Perennial Rye. (Lawn mixture)
 - Erosion control blanket shall be North American Green S75 or approved equal installed following manufacturer guidelines.
 - All seeded areas shall be roped off from pedestrian access using metal stakes at 8 foot spacing and snow fence tied it two places per stake.
- Softball Field sod restoration areas as follows:
 - Sod shall be 2.5' by 30' long thick cut (1-1/2") of well rooted growth material.
 - Sod Mixture to consist of 100% Kentucky Bluegrass
 - Sod shall be rolled after installation.
- Watering
 - Contractor shall be responsible for watering the restored area per project specifications for a duration of 60 days prior to the Owner's final review and acceptance.
 - Contractor will be responsible to erect a temporary above ground water irrigation system to water both the seed and sod areas. Refer to specifications for more detailed requirements.
 - If restoration has not shown a 'catch' or uniform stand, the contractor shall repeat re-seeding or re-sodding until a uniform stand is achieved.
- Once restoration has been completed, the contractor shall remove erosion control devices. Silt fence trenches shall be backfilled and restored in kind. Storm structures shall be cleaned of debris.

PROPOSED LEGEND

	CLASS "D" PAVEMENT PATCH, 5"
	TENNIS COURT PAVEMENT SEE DETAIL
	PCC SIDEWALK, 5"
	PCC PAVEMENT, 8"
	SYNTHETIC TURF FIELD
	SOFTBALL IN FIELD MIX SEE DETAIL
	WARNING TRACK SEE DETAIL
	FINAL SEED & BLANKET
	SOFTBALL FIELD FINAL SOD
	STONE RIP RAP
	DETECTABLE WARNINGS
	B6.12 CURB & GUTTER (REGULAR)
	B6.12 CURB & GUTTER (DEPRESSED)
	INTEGRATED SIDEWALK/ CONCRETE CURB
	RETAINING WALL SEE DETAIL

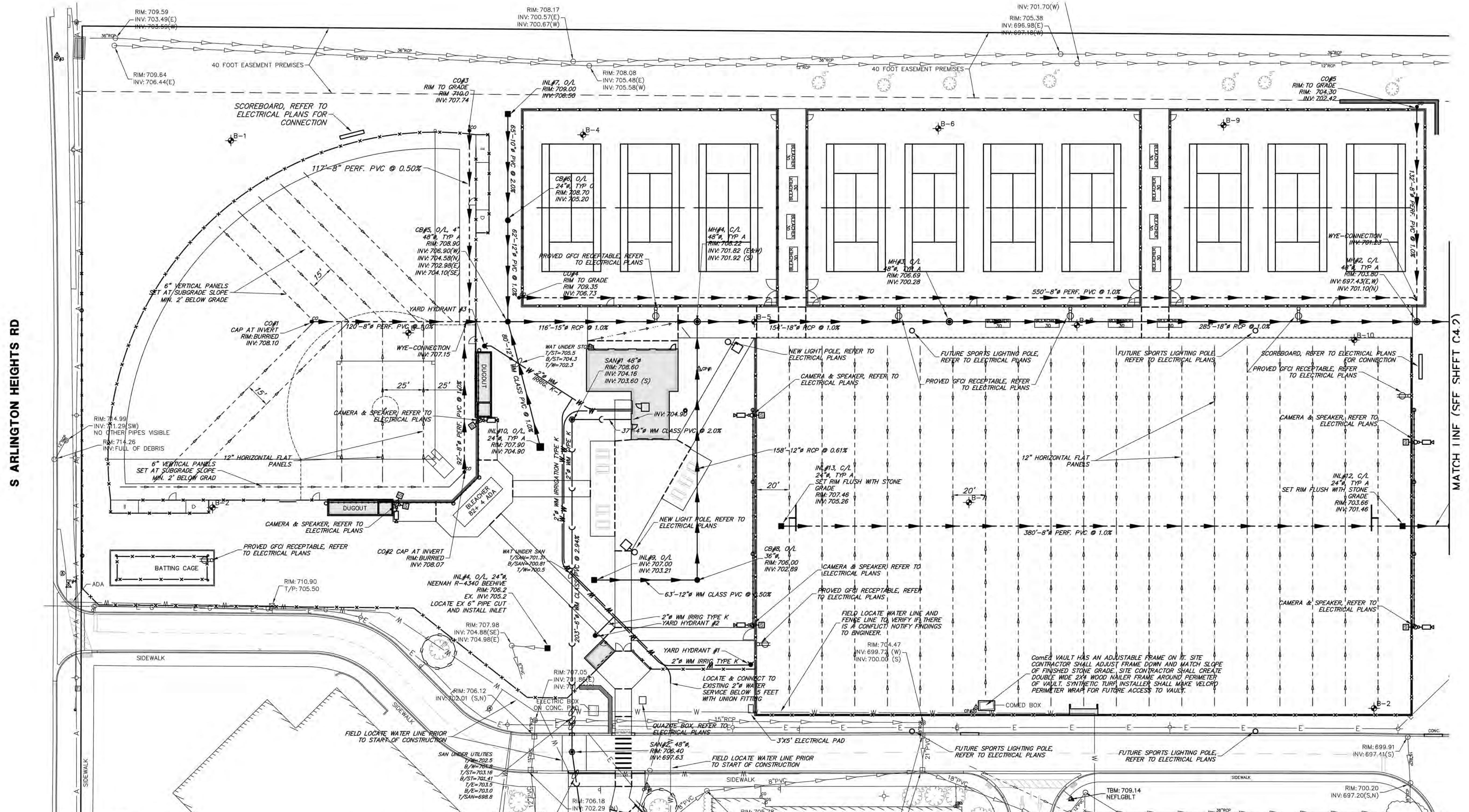
PROPOSED LEGEND

	PAVEMENT SAWCUT
	EXPANSION JOINT



GEOMETRIC PLAN - PHASE 1

D214 BGHS ATHLETIC FIELD RENOVATIONS PHASING 1100 W Dundee Road, Buffalo Grove, IL 60089



UTILITY PLAN NOTES

1. The contractor shall verify the exact location and elevation of existing utilities prior to initiating work. Any discrepancies found between the information noted on the plans and actual field conditions, or any conflicts with proposed improvements shall be reported to the engineer immediately. The contractor shall not proceed any further until given written clarification on how to proceed.
2. Install storm sewer as shown. Refer to Storm Sewer requirement table on General Notes Sheet for pipe material, joint, frame and grate, stone bedding and testing requirements.
3. Install sanitary sewer as shown. Refer to Sanitary Sewer requirement table on General Notes Sheet for pipe material, joint, frame and grate, stone bedding and testing requirements.
4. Install lift station as shown. Refer to lift station details and specifications. Coordinate electric service, alarm panel location, and forcemain connection to gravity sewer line in building.
5. Install watermain as shown. Refer to Water Main requirement table on General Notes Sheet for pipe material, joint, valves, stone bedding and testing requirements. All watermain shall be 2" Type K copper. Each section of copper shall be connected using a three part copper union and copper flare. Provide reducer fitting at yard hydrant and at existing tie-in location. Yard hydrant shall be Woodford Iowa Model Y1 with a 5 foot deep bury depth. Set 26" above finished grade. Provide french drain around drain hole. French drain shall consist of 1 C.Y. of open graded CA-11 (no fines) wrapped in Light Duty non-woven geotextile fabric. Provide as-constructed locations of all bends and copper connection points.
6. Refer to MEP and Architectural plans for site lighting, electric, security camera conduits, spare conduits and gas requirements and final routing.
7. All connections to the combined sewer must be watertight in conformance with ASTM C-923.
8. All connections to existing structures shall be machined cored holes.
9. Contractor shall provide as-constructed utility documents in digital cad files and pdf files at the conclusion of the project. Refer to master list of as-constructed items provided on the plans.

AS-CONSTRUCTED DOCUMENTATION DURING AND POST CONSTRUCTION

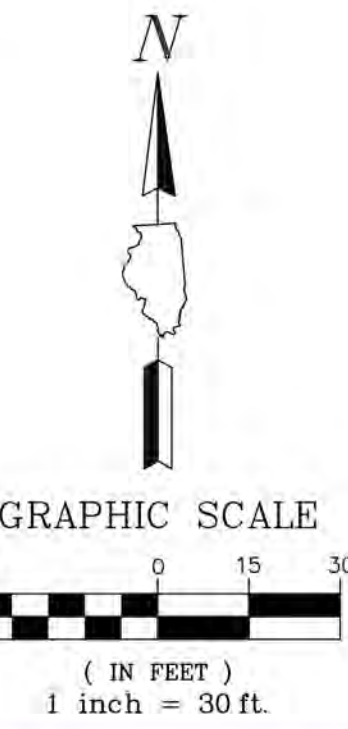
1. The following as-constructed information shall be collected throughout the construction of the project and provided in one digital AutoCAD file at the conclusion of the project:
 - a. Stone void storage (under Multisport field)
 - Rim and inverts of underdrain lateral
 - Bottom elevation of subgrade at 25 foot grid prior to backfilling. **Submit before backfilling**
 - Top and bottom and corners of any buried stone volume control basins.
 - As-constructed volumes within respective basins up to overflow elevation.
 - b. Tennis Courts
 - 10 Spot Elevations at each tennis court
 - Fence line (2 each side)
 - Endline Corners (2 each side)
 - Center Net Corners (2 total)

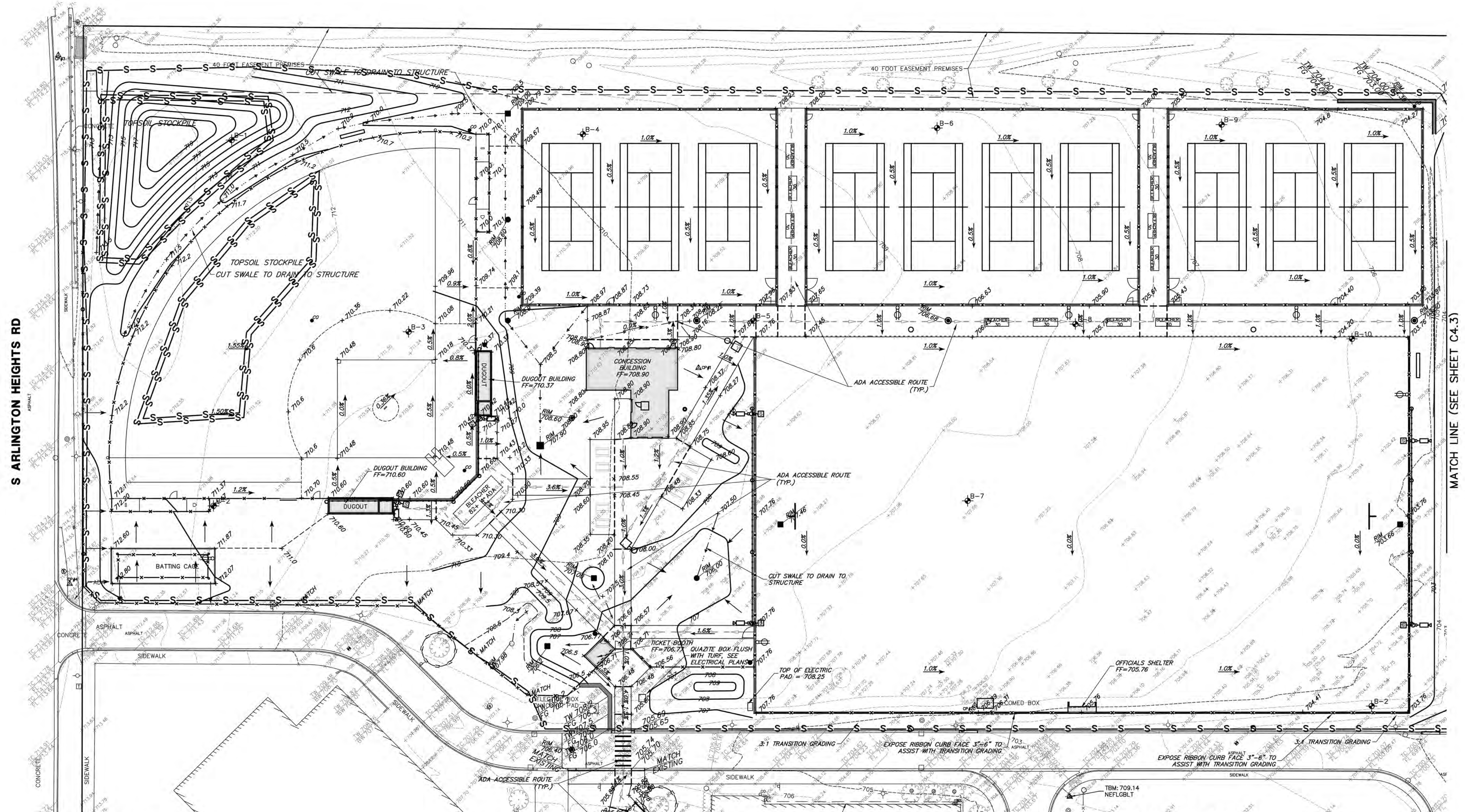
GRADING

- a. Sidewalk ramps, ADA Routes, Patio and Bleacher areas
 - Provide 4 spot grades per square at landings and any tamper or ramps.
 - Provide spot elevations along route at maximum 10 foot spacing on both sides of the path to confirm cross slope and longitudinal slope requirements have been met.
 - Provide 15 foot grid in large patio or bleacher areas
- b. Buildings
 - Top of foundation elevations.
 - Finished floor elevations at doorways.
- c. Water Main
 - As-constructed location of all bends, tees, valves, copper unions, etc. (measured dimension from two fixed above grade objects are required for buried objects)
 - Rim and top of pipe elevations for all structures
 - Provide all testing documentation.
- d. Sanitary Sewer
 - As-constructed locations of structures, service connections, cleanouts.
 - Rim and invert elevations.
 - Color video with transcript required for new sewer lines installed.
- e. Storm Sewer
 - As-constructed locations of structures, service connections, cleanouts.
 - Rim and invert elevations.
 - Color video with transcript required for new sewer lines installed. Crawler camera required on pipes 8" and larger. Push type camera on 6" or less.

UTILITY PLAN LEGEND

	EXISTING STORM SEWER
	EXISTING SANITARY SEWER
	EXISTING WATERMAIN
	PROPOSED STORM SEWER
	PROPOSED SANITARY SEWER
	PROPOSED WATERMAIN
	EXISTING
	PROPOSED
	STORM MANHOLE
	STORM CATCHBASIN
	STORM INLET
	FLARED END SECTION
	SANITARY MANHOLE
	VALVE VAULT
	VALVE BOX
	FIRE HYDRANT
	BUFFALO BOX
	STREET LIGHT
	POWER POLE
	SIGN





GRADING PLAN NOTES

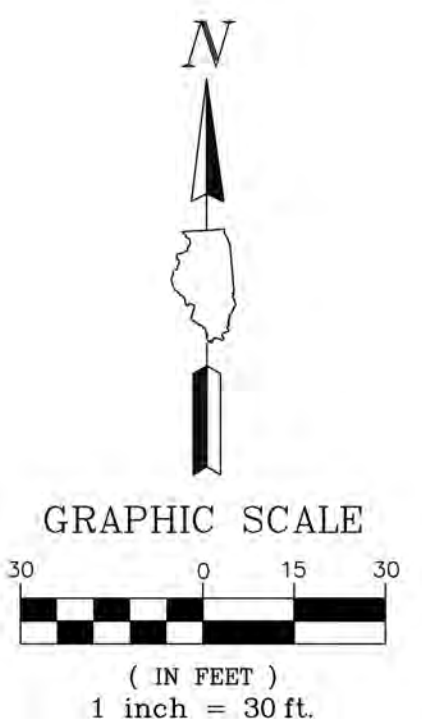
1. Prior to starting any construction, provide soil erosion and sediment control devices as shown on the plans and as required per IEPA NPDES guidelines. Refer to notes and details throughout the entire plan set.
2. Prior to starting any excavation work, provide tree protection, preservation and root pruning as shown on the plans and notes throughout the entire plan set.
3. Contractor shall refer to subsurface soil exploration report.
4. Refer to General Notes for grading, compaction and proof roll requirements.
5. Crushed concrete meeting IDOT certifications for the design plan gradations for non-porous pavement and sidewalk stone base, structural fill, and trench backfill will be permitted.
6. Crushed concrete may not be used for underdrain trench or porous fill conditions.
7. The contractor shall import or export soil as necessary to construct the site to specified plan grades. Such work is considered incidental to the contract and no additional compensation shall be allowed for such work. Minor adjustments to grades can be accommodated with Project Engineer approval.
8. The Contractor shall include all associated costs with the removal, transport, disposal, testing and certification of "Uncontaminated Soil" as defined under 415 ILCS 5/3.160 including any fees, taxes, or surcharges charged by or through the operator(s) of Clean Construction or Demolition Debris Fill Operations or Uncontaminated Soil Fill Operations for the acceptance of Uncontaminated Soil.
9. All structures shall be adjusted to meet finished turf and pavement grades.
10. Refer to soil erosion and sediment control notes and details for seed and blanket requirements for temporary stabilization.
11. Refer to geometric plan and specifications for final restoration requirements.

12. Contractor shall provide as-constructed grading documents in digital cad files and pdf files at the conclusion of the project. Refer to master list of as-constructed items provided on the plans.
13. Refer to SWPPP Plan for sequence of construction. Note mass grading work zone areas shall be minimized to prevent erosion. Once a work zone has been rough graded, stabilize area with mulch and proceed to next work area until site is completed.
14. Contractor shall ensure positive drainage to all inlets and catchbasins. Areas of surface ponding shall be corrected by the contractor at no additional expense to the Owner.
15. All lawn areas disturbed as a result of construction shall be restored to preconstruction lawn condition following restoration requirements.

16. In proposed synthetic turf area remove existing turf and excavate to proposed subgrade and compact to 95% Standard Proctor density (ASTM D-698). Prior to geotextile fabric placement, the finished subgrade shall be proof rolled. Undercut fill shall be clay. Subgrade shall be fine graded to meet the proposed subgrade elevations. Rough grading, with ruts or bird baths is not permitted. Upon completion of the subgrade, install geotextile fabric, with a minimum 18" overlap. Install horizontal panel drains as Vulcan 210 stone material is placed and compacted to 95% Standard Proctor density. Horizontal panel installation and stone placement to be coordinated so as not to crush the panel drain. No truck traffic will run directly on the geotextile fabric. Upon completion of the Vulcan 210 stone placement, stone shall be rough graded by site contractor. Nailer board to be installed by site contractor. Co-op synthetic turf installer shall provide final grading of the stone surface. Upon final stone surface completion, site Project Engineer and synthetic turf contractor shall stringline and walk site for acceptance. Upon acceptance by Project Engineer and synthetic turf contractor, turf to be installed.

GRADING LEGEND

- TOP OF CURB FLOW LINE
- PROPOSED SPOT ELEVATION
- CONTOUR
- STRUCTURE ADJUSTMENT
- SUMMITS
- SLOPES
- SWALES
- OVERLAND FLOW ROUTE
- DETECTABLE WARNINGS
- B6.12 CURB & GUTTER (REGULAR)
- B6.12 CURB & GUTTER (DEPRESSED)
- BARRIER CURB
- BARRIER CURB (DEPRESSED)
- ADA ACCESSIBLE ROUTE



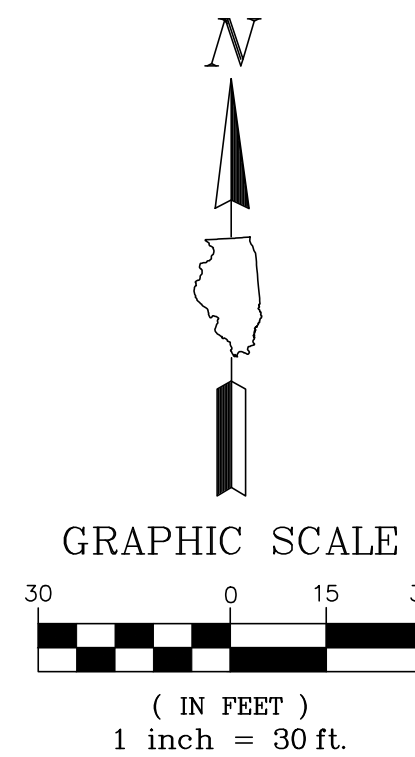
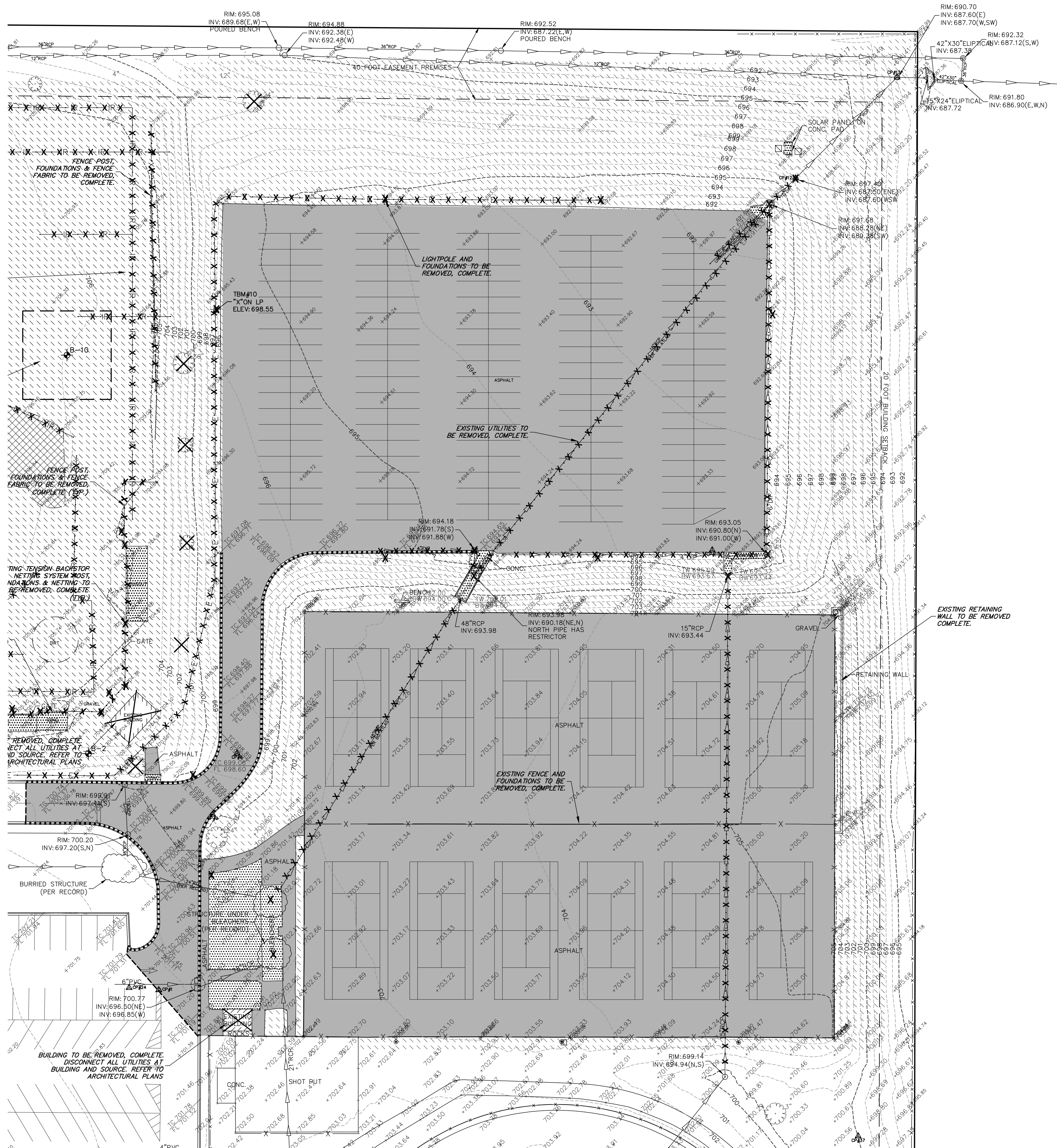
GRADING PLAN - PHASE 1

D214 BGHS ATHLETIC FIELD RENOVATIONS PHASING

1100 W Dundee Road, Buffalo Grove, IL 60089

Township High School District 214

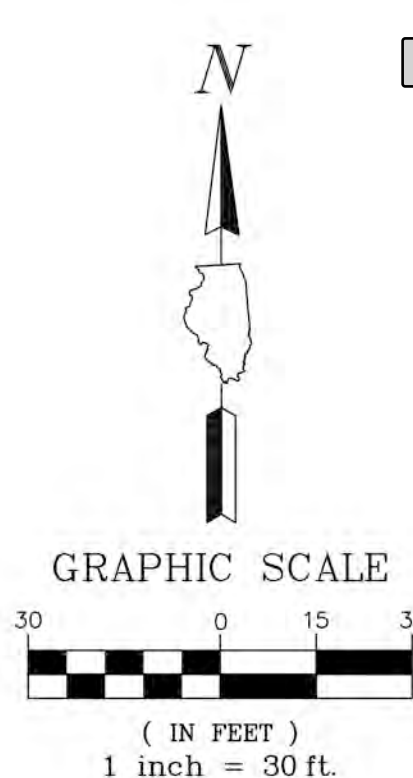
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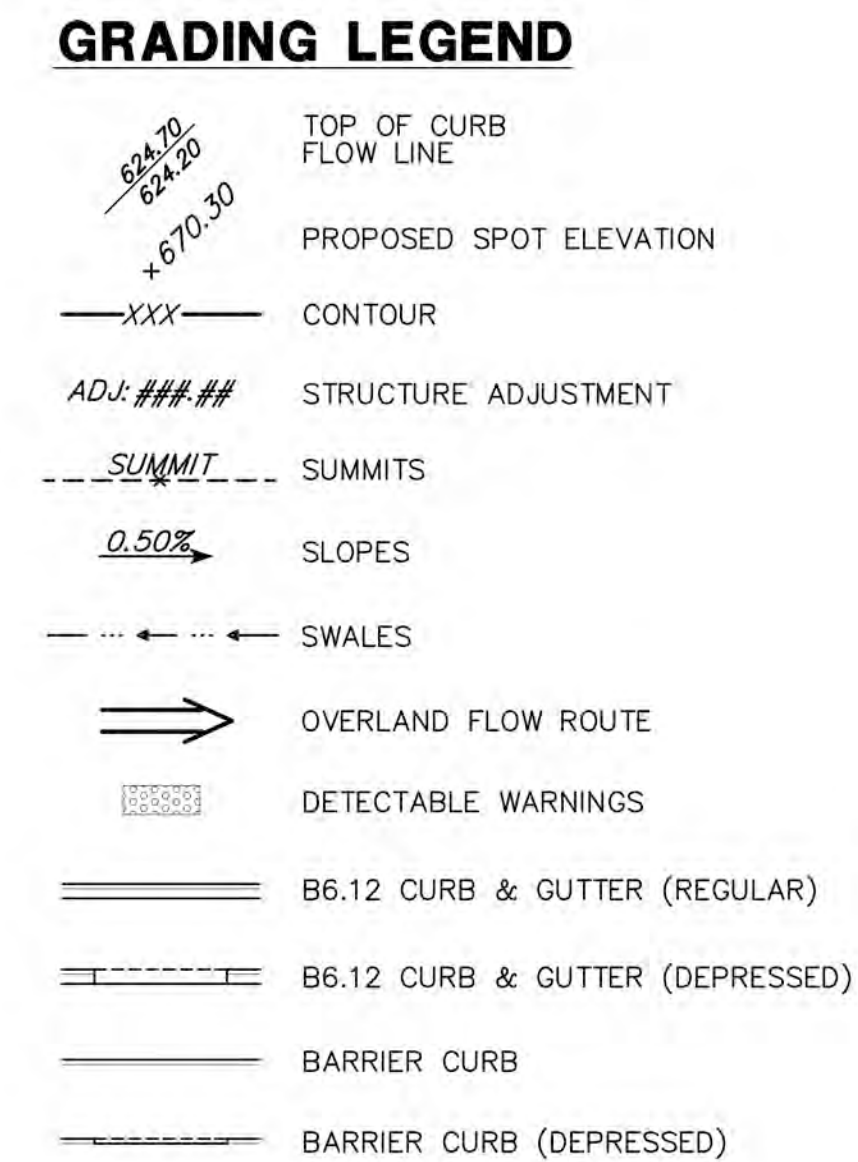
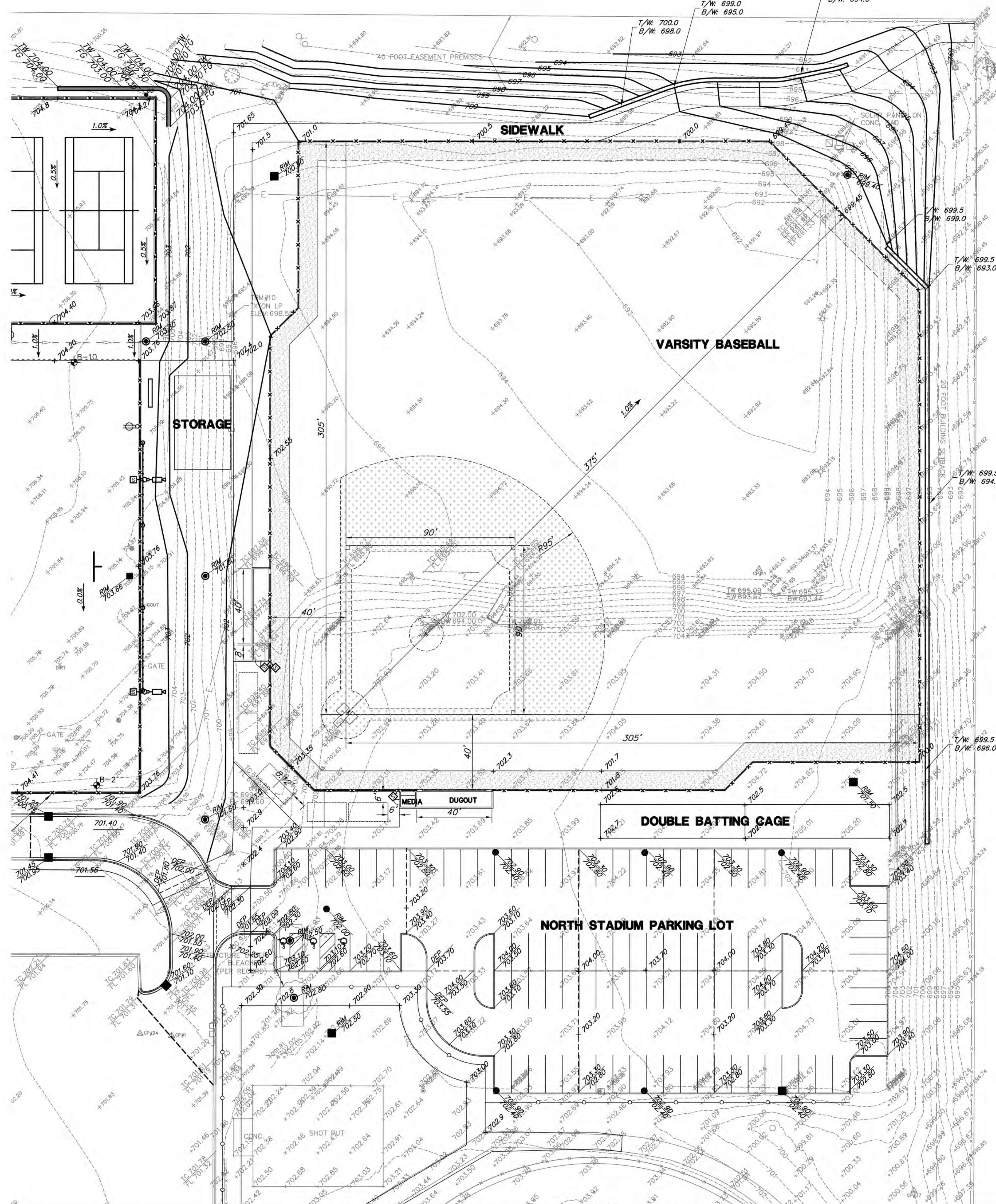
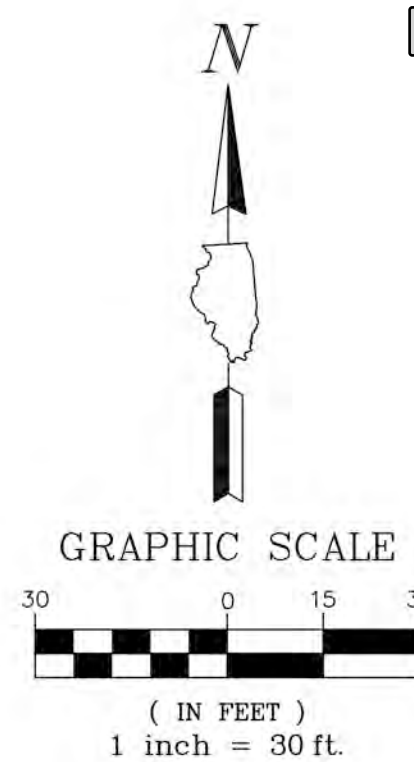
REMOVAL LEGEND

- INFIELD MIX SALVAGE
- PAVEMENT REMOVAL FULL DEPTH, MINIMUM 14"
- CLASS "D" PAVEMENT PATCH, HEAVY DUTY PAVEMENT
- EARTH/GRAVEL REMOVAL
- CONCRETE/SIDEWALK REMOVAL
- PATHWAY REMOVAL
- TREE/SHRUB REMOVAL (SEE LANDSCAPE PLANS FOR TREE REMOVAL AND TREE PROTECTION)
- PERIMETER EROSION BARRIER
- CURB/COMBINATION CURB AND GUTTER REMOVAL
- PAVEMENT SAWCUT
- UTILITY TO BE REMOVED
- STRUCTURE/UTILITY REMOVAL
- CONSTRUCTION FENCE
- SOIL BORING



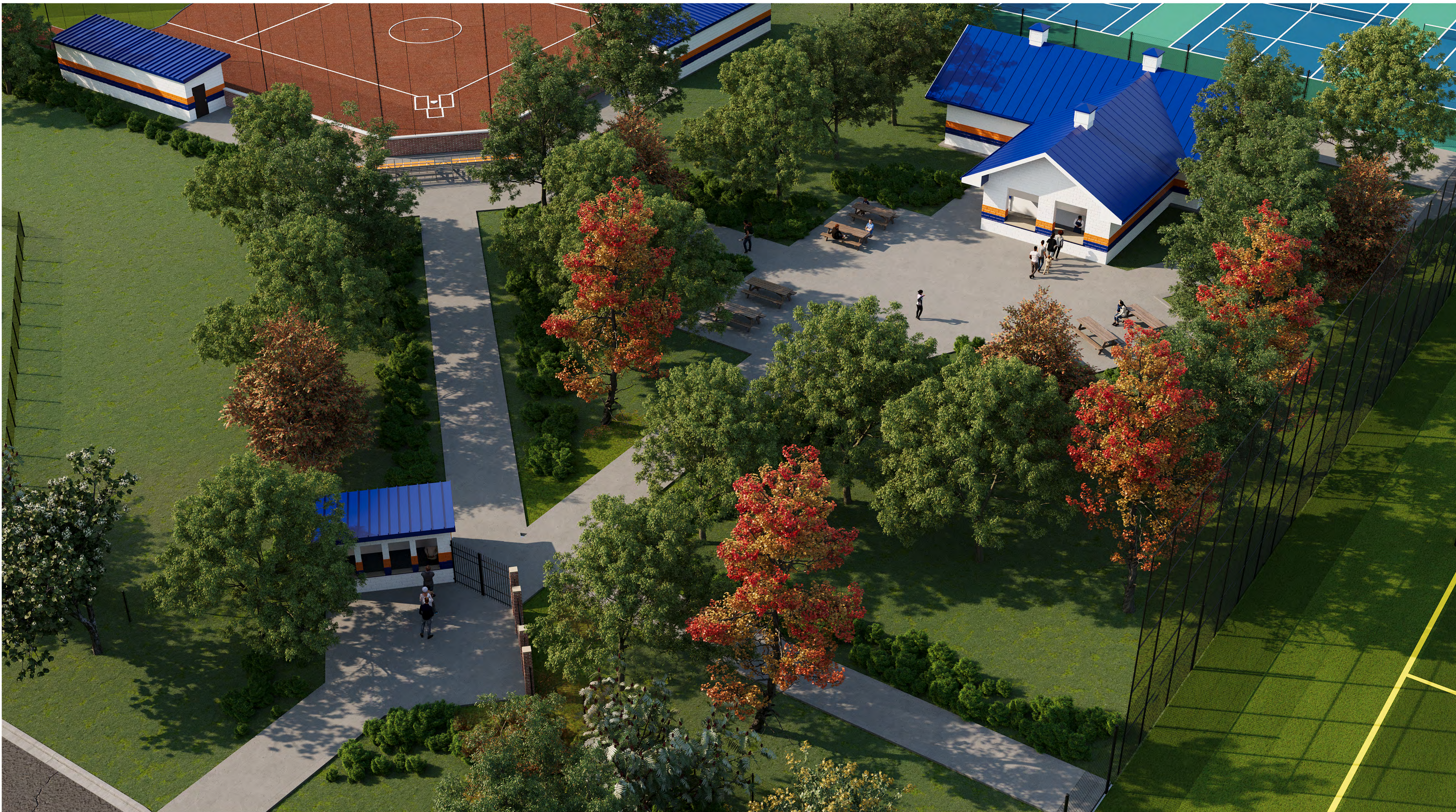


	EXISTING STORM SEWER	
	EXISTING SANITARY SEWER	
	EXISTING WATERMAIN	
	PROPOSED STORM SEWER	
	PROPOSED SANITARY SEWER	
	PROPOSED WATERMAIN	
<u>EXISTING</u>	<u>PROPOSED</u>	
		STORM MANHOLE
		STORM CATCHBASIN
		STORM INLET
		FLARED END SECTION
		SANITARY MANHOLE
		VALVE VAULT
		VALVE BOX
		FIRE HYDRANT
		BUFFALO BOX
		STREET LIGHT
		POWER POLE
		SIGN





AERIAL VIEW OF PHASE 1 & 2



TICKET BOOTH, CONCESSION STAND AND PLAZA

D214 BGHS ATHLETIC FIELD RENOVATIONS PHASING
 1100 W Dundee Road, Buffalo Grove, IL 60089

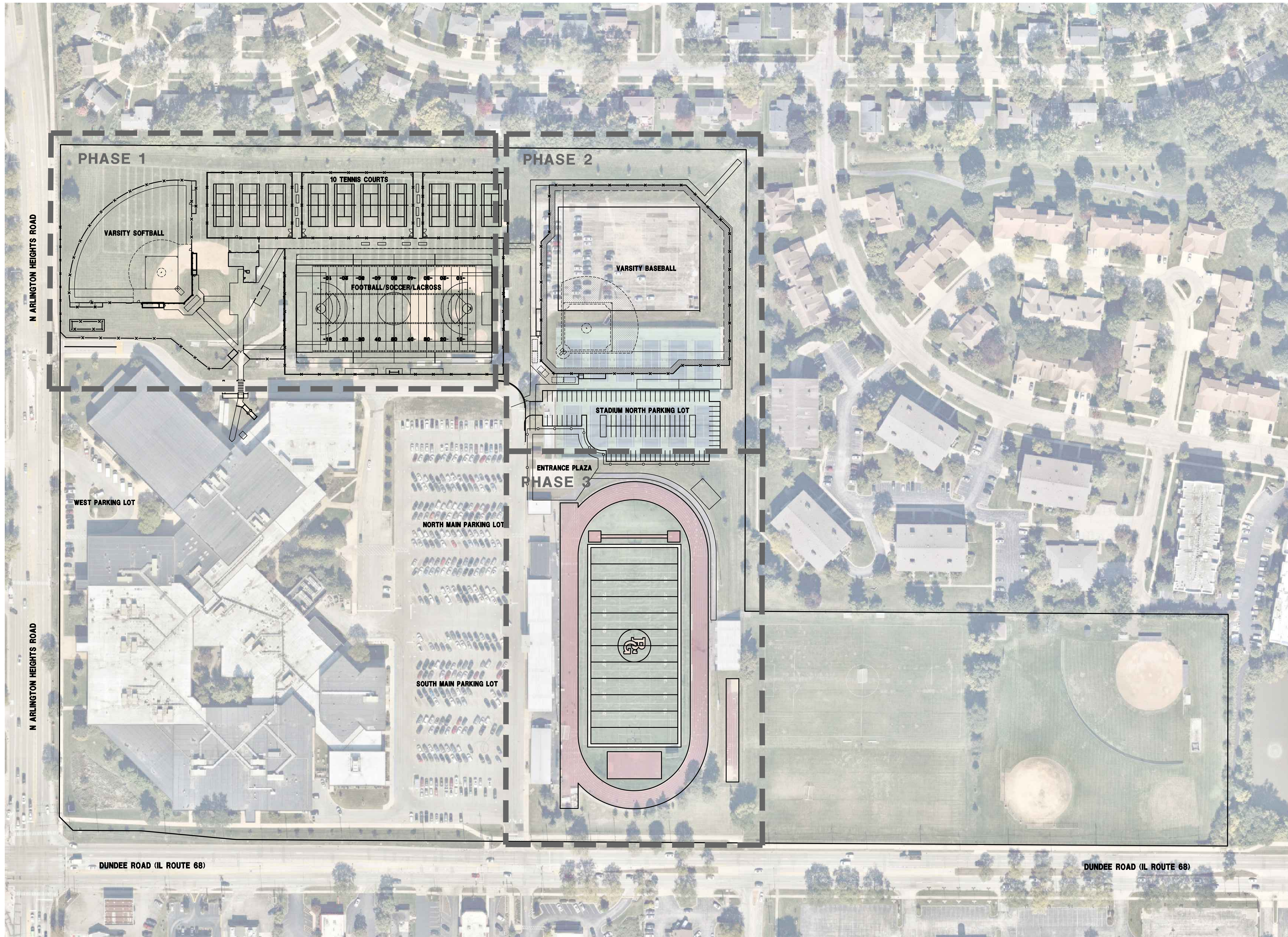
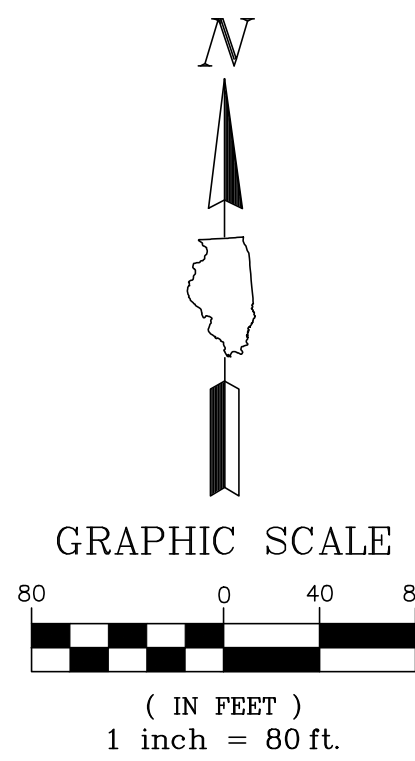
Township High School District 214

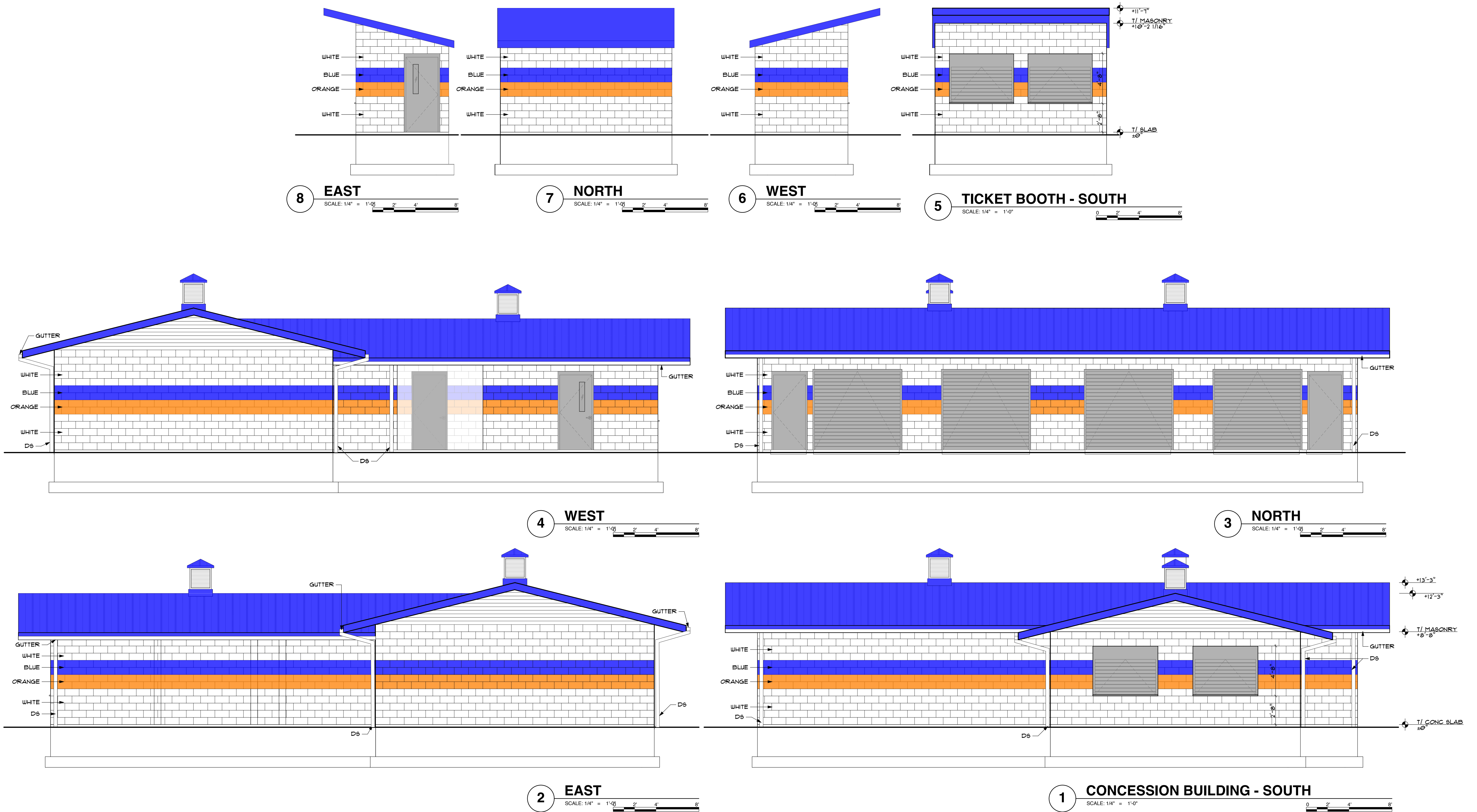
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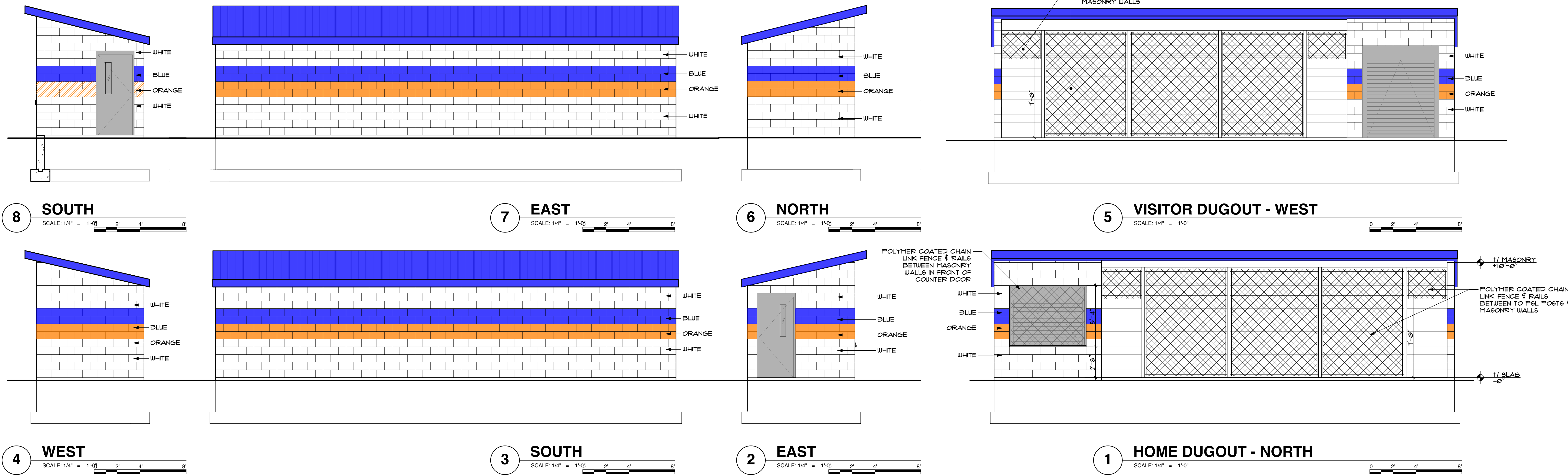
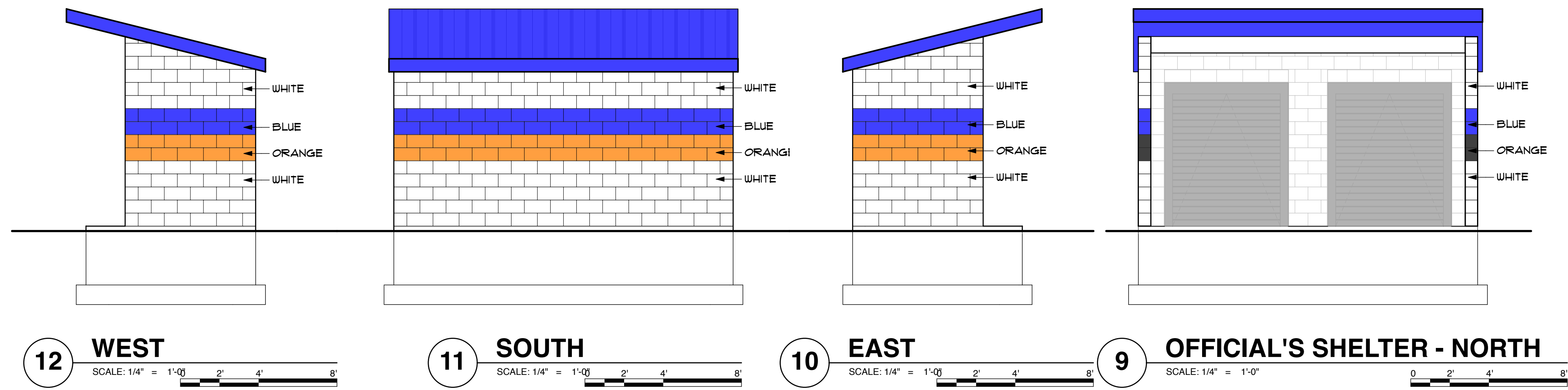
2/10/2024



SOFTBALL FIELD, TENNIS COURTS AND MULTI-SPORT TURF FIELD







STR Partners, LLC
350 West Ontario Street | Suite 200
Chicago, IL 60654

GEWALT HAMILTON ASSOCIATES, INC
625 Forest Edge Drive
Vernon Hills, IL 60061
(847) 478-9700

• **STRUCTURAL ENGINEERING:**
SHEFFEE LULKIN AND ASSOCIATES
4211 Main St
Skokie, IL 60076
(847) 677-8600

- MEP/FP ENGINEERING:
CS2 DESIGN GROUP, LLC
837 Oakton St
Elk Grove Village, IL 60007
(847) 981-1880

• **CONSTRUCTION MANAGER:**
PEPPER CONSTRUCTION COMPANY
411 N Lake Zurich Rd
Barrington, IL 60010
(847) 381-2760

KEY PLAN

SCOPE DOCUMENT

This drawing is on drawing within a complete set of documents and shall not be considered separately from the Drawings as a whole. The Drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical, and electrical systems. As Scope Documents, the Drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Construction Documents. On the basis of the general scope indicated or described, the Contractor shall furnish all items required for the proper execution and completion of the Work.

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PROJECT

D214 BGHS ATHLETIC FIELD RENOVATIONS PHASE 1

1100 W Dundee Road
Buffalo Grove, IL 60089

Township High School District 214
2121 South Goebbert Road
Arlington Heights, IL 60005

CLIENT PROJECT NUMBER

STR PROJECT NUMBER

23040

DRAWING DATES

NUMBER	DATE	COMMENTS
.		
.		
.		
.		
.		
③	MAR 28, 2024	ADDENDUM #3
2	JAN 15, 2024	ISSUE FOR CONSTRUCTION
②	NOV 10, 2023	ADDENDUM #2
①	NOV 03, 2023	ADDENDUM #1
1	OCT 20, 2023	ISSUE FOR PERMIT AND BIDS

DRAWING TITLE

MULTISPORT FIELD OFFICIAL'S SHELTER

SHEET NUMBER

A5.0

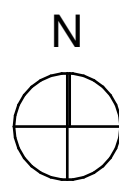
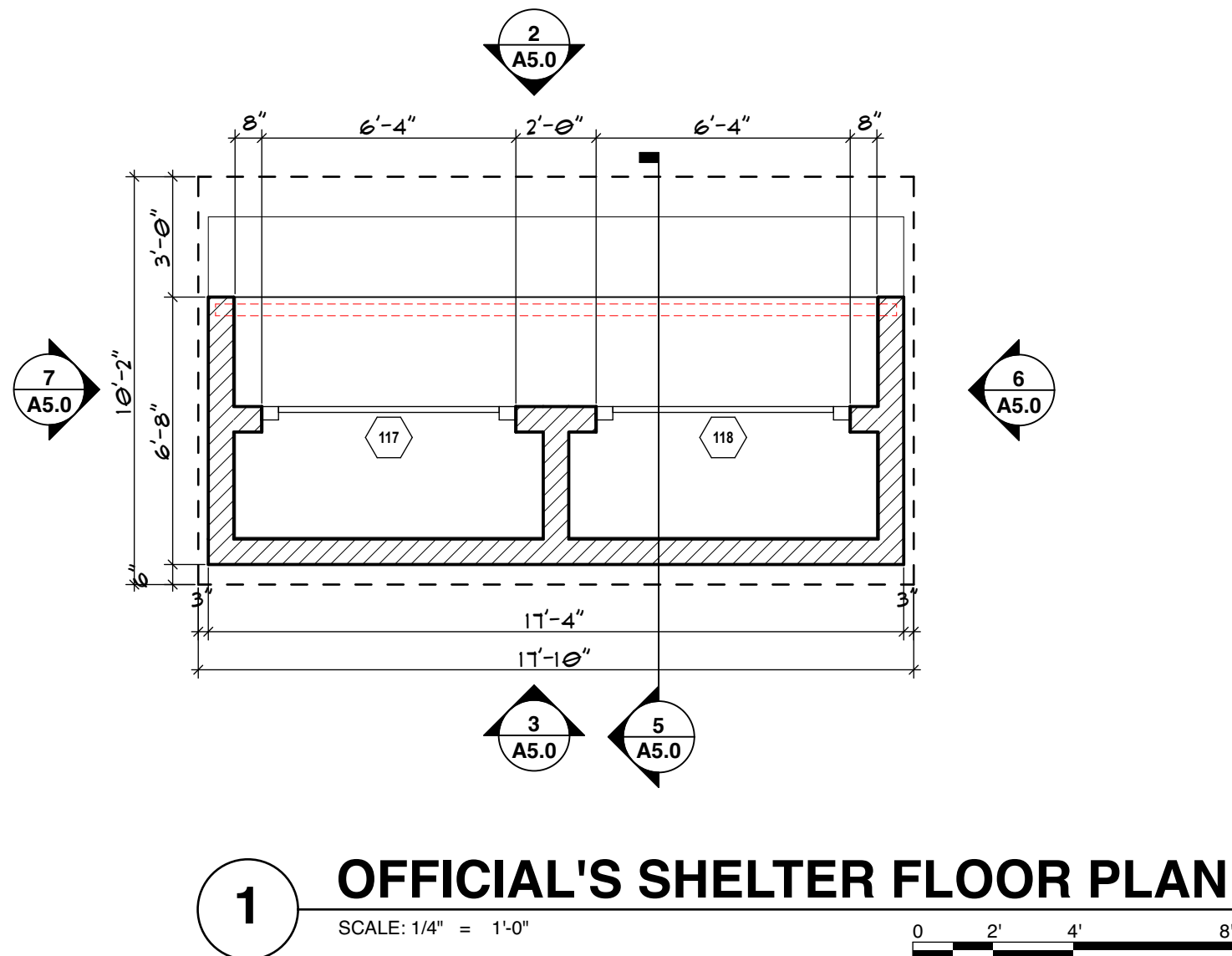
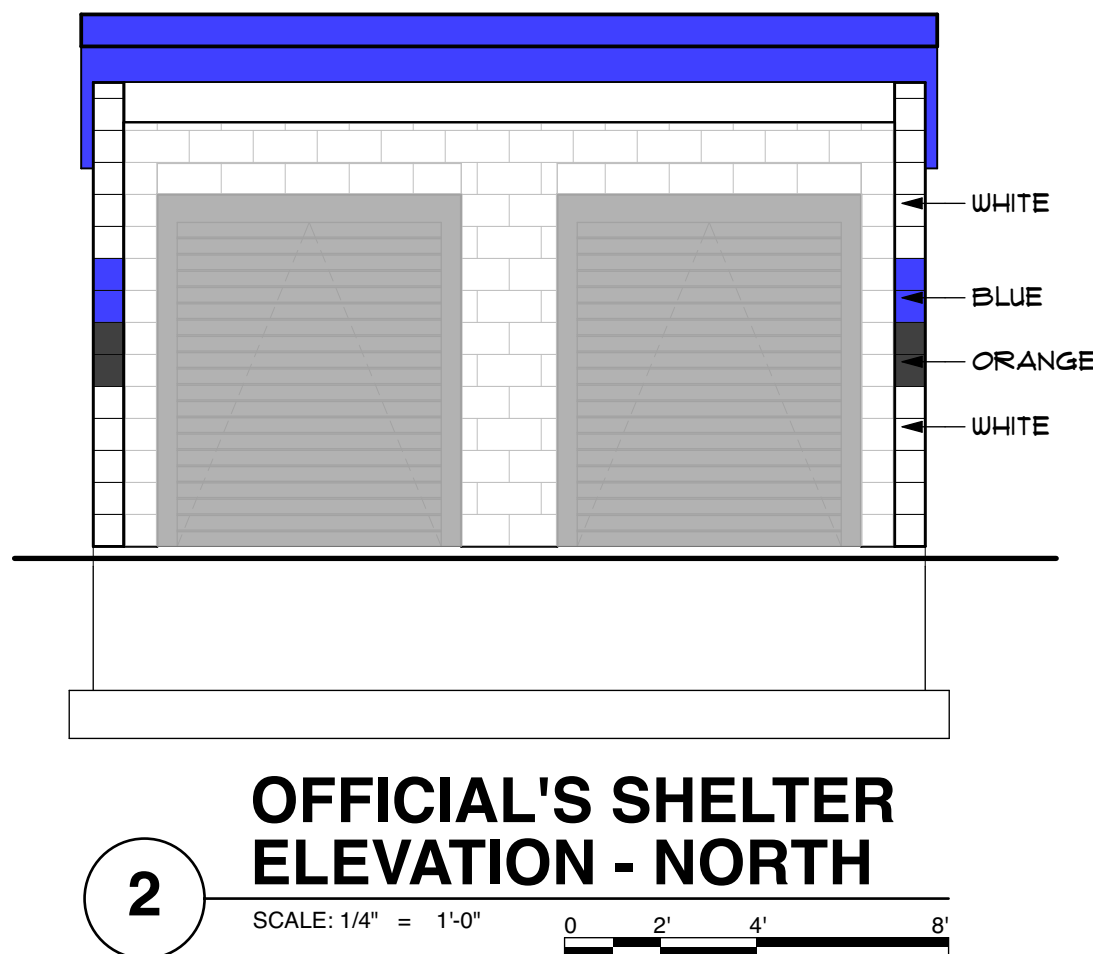
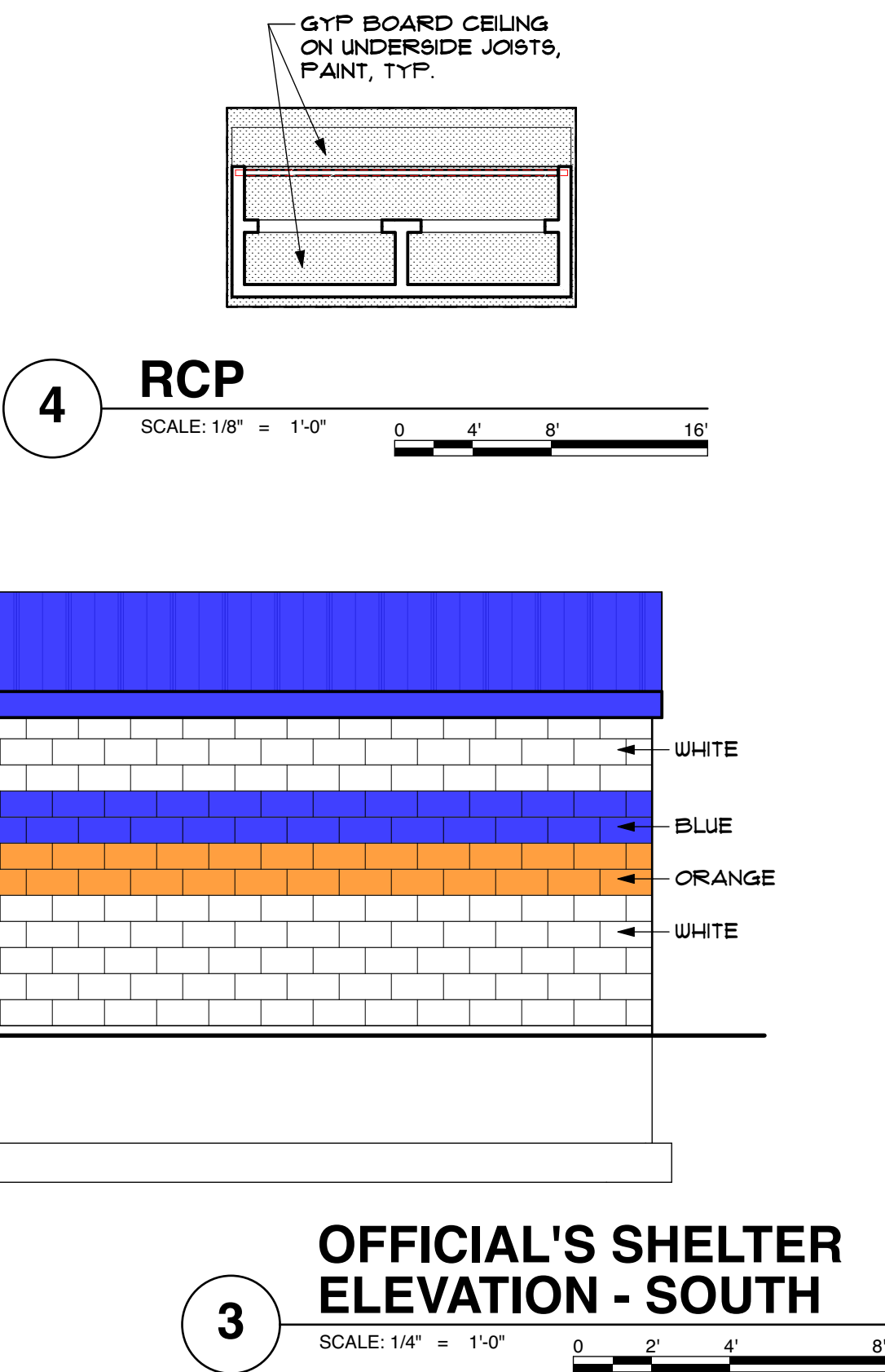
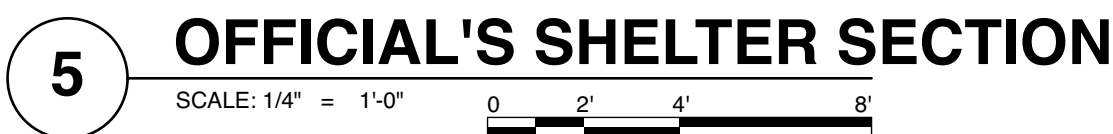
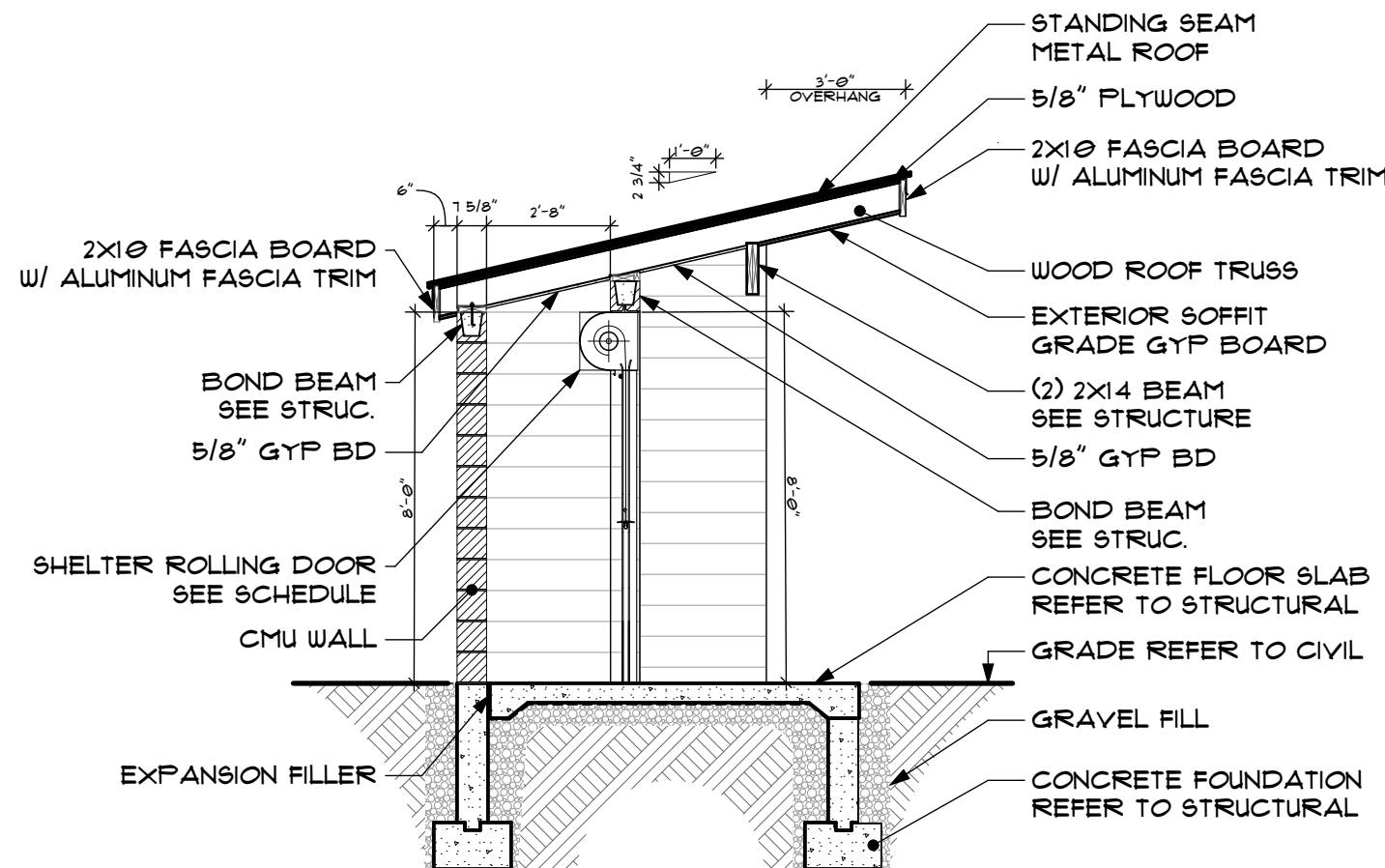
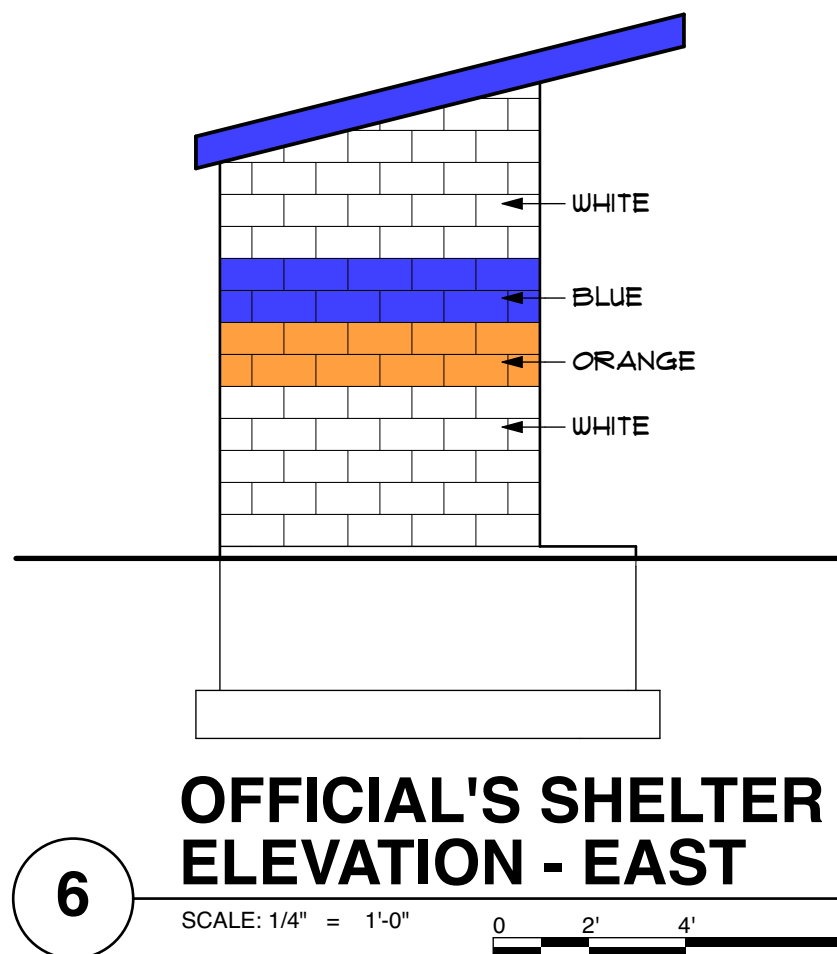
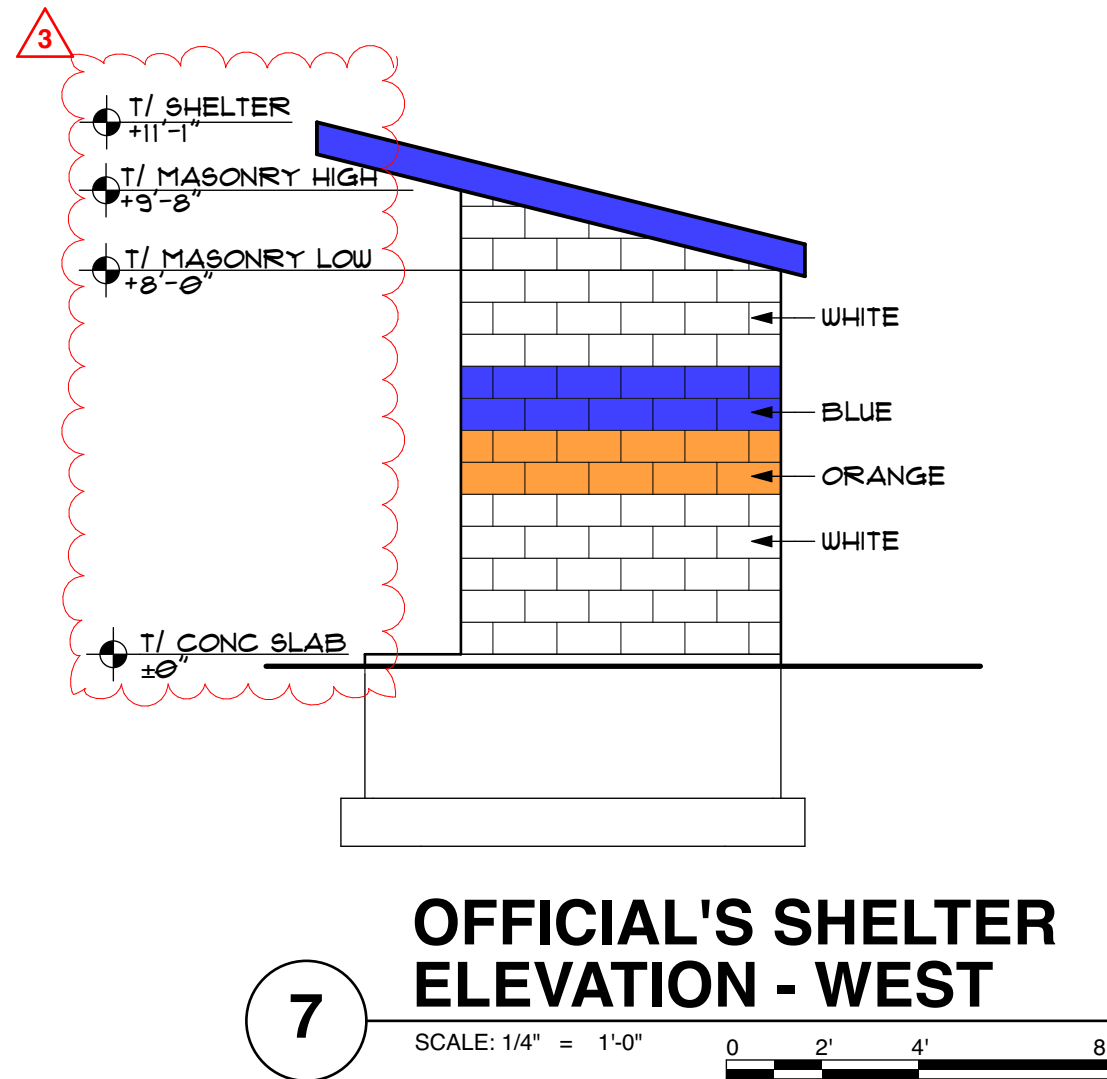
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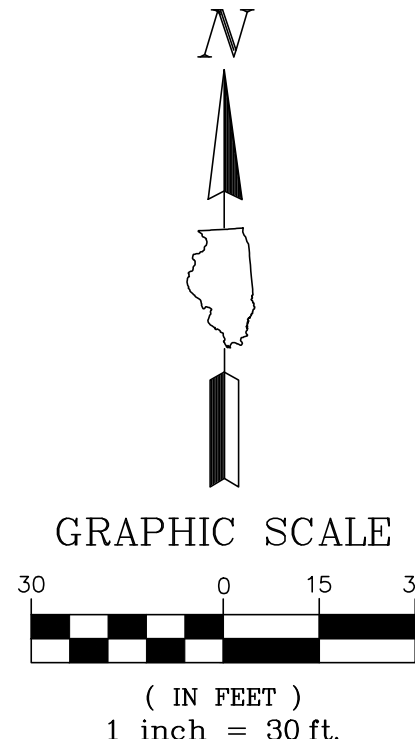
	CMU WALL
	NEW DOOR
	EXISTING DOOR
FE	FIRE EXTINGUISHER, SEE G-SERIES SHEETS
EJ	EXPANSION JOINT, SEE FOR TYPE AND OTHER

1. SEE STRUCTURAL DRAWINGS AND SCHEDULES FOR MASONRY WALL REINFORCEMENT AND/OR GROUTING REQUIREMENTS.
2. SEE ENLARGED DETAILS AND ENLARGED PLANS FOR ADDITIONAL INFORMATION.

	FACE BRICK 1
	FACE BRICK 2
	METAL PANEL 1
	METAL PANEL 2
	CAST STONE
	DOWNSPOUT NOZZLE
	CONTROL JOINT
	SPEAKER, 12'-0" FROM T/SLAB, U.O.N.
	CARD READER, 3'-4" FROM T/SLAB, U.O.N.
	OUTLET, 1'-4" FROM T/SLAB, U.O.N.
	LIGHT FIXTURE, 12'-0" FROM T/SLAB, U.O.N.
	LIGHT FIXTURE, 12'-0" FROM T/SLAB, U.O.N.

1. PAINT EXPOSED STEEL LINTELS - COLOR
SELECTED BY ARCHITECT

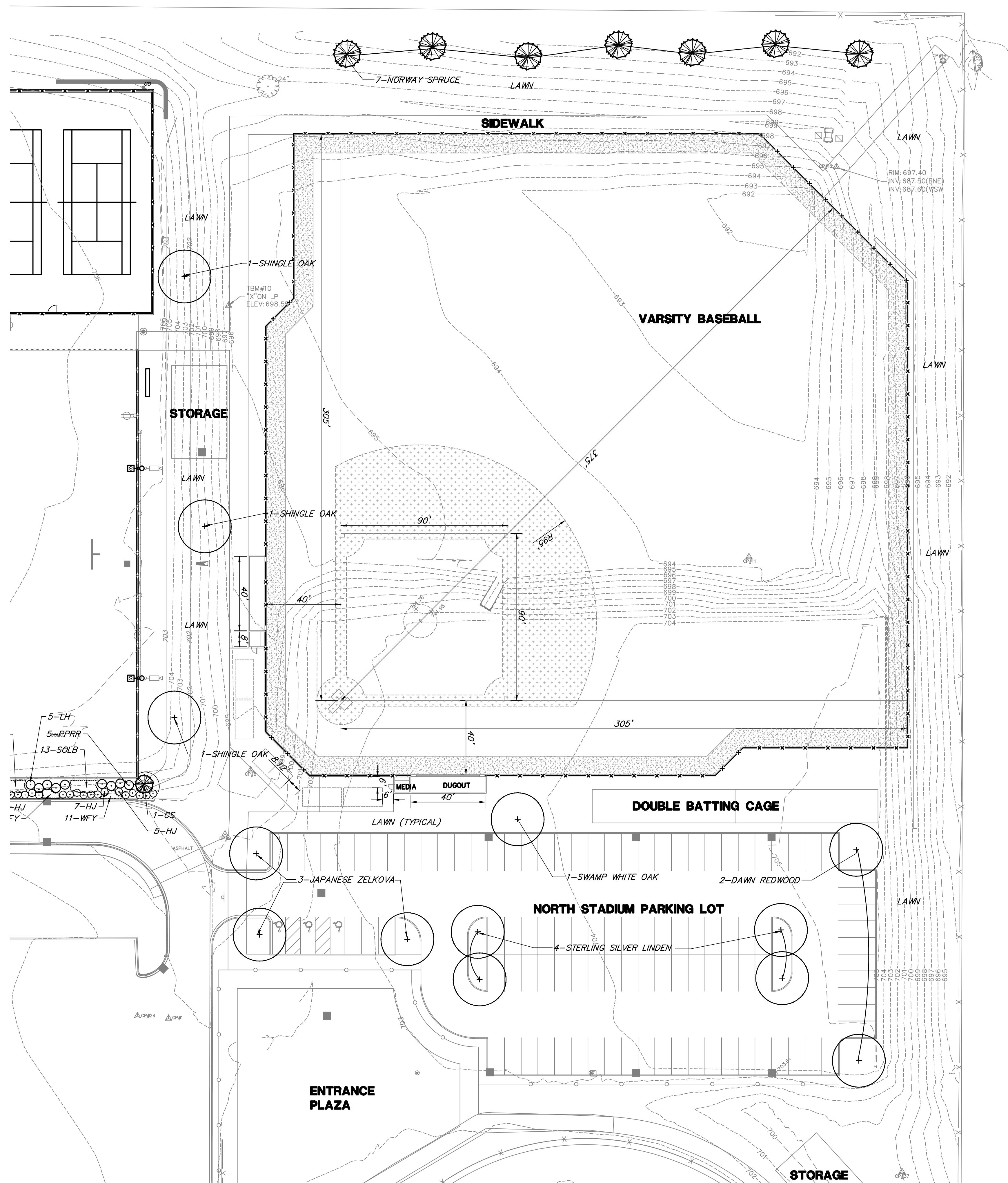


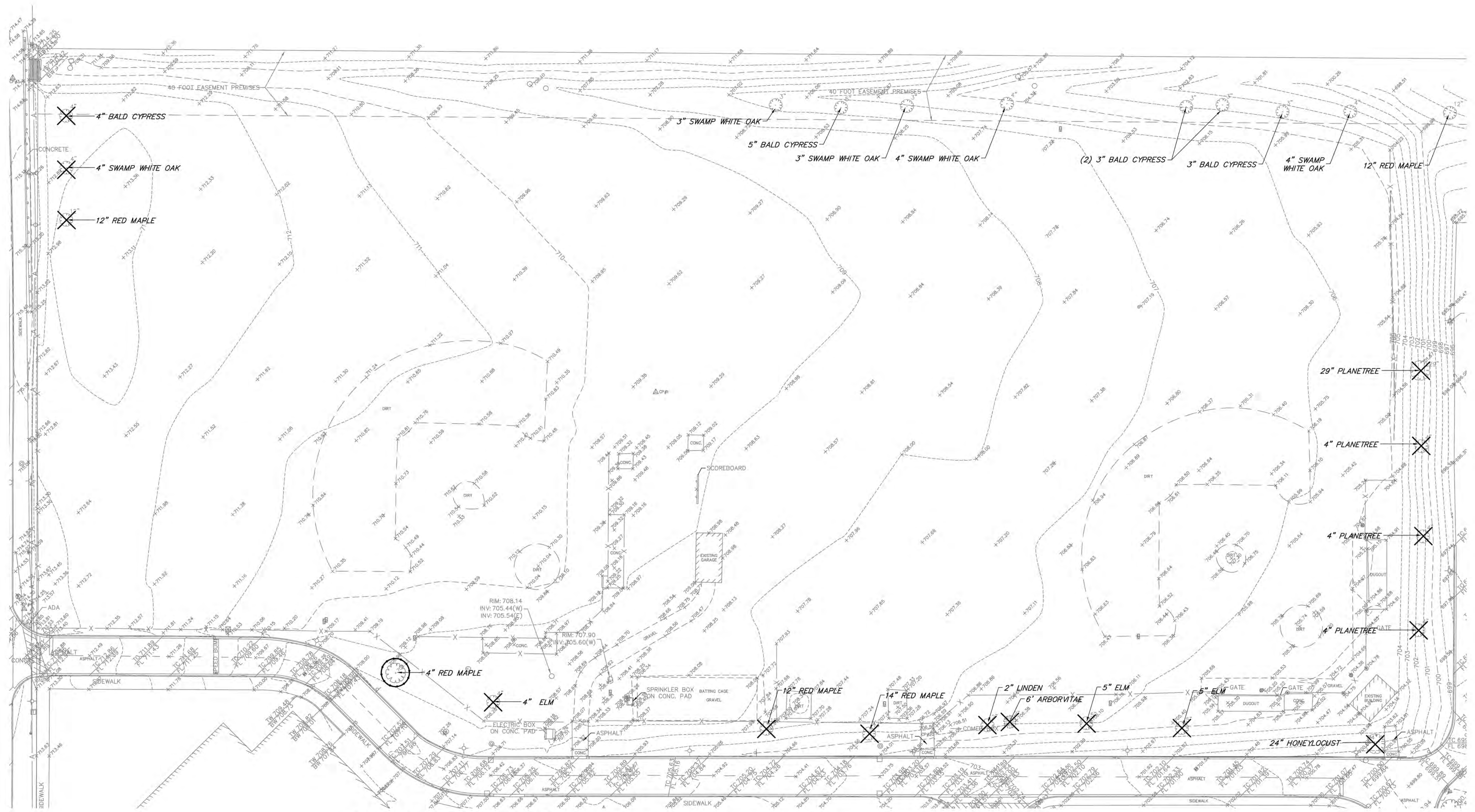


SHRUBS			Total Trees		Total Shrubs	
Key	Common Name	Scientific Name	Qty.	Size		
	Crimson Pygmy Barberry	Berberis thunbergii 'Crimson Pygmy'	11	5 gal.		
	Enci Mugo Pine	Pinus mugho 'Enci'	16	5 gal.		
	Goldflame Spirea	Spiraea x bumalda 'Goldflame'	20	5 gal.		
	Gro-Low Sumac	Rhus aromatica 'Gro Low'	36	5 gal.		
HJ	Hughes Juniper	Juniper horizontalis 'Hughes'	75	5 gal.		
LH	Limelight Hydrangea	Hydrangea paniculata 'Limelight'	28	24-30" ht.		
	Nannyberry Viburnum	Viburnum lentago	2	36" BB		
	Ninebark Ginger Wine	Physocarpus opulifol. 'Ginger Wine'	6	5 gal.		
PPRR	Purple Pavement Rugosa Rose	Rosa rugosa 'Purple Pavement'	29	3 gal.		
	Quick Fire Hydrangea	Hydrangea paniculata 'Quick Fire'	4	5 gal.		
PERENNIALS/ORNAMENTAL GRASS			Total Shrubs	227		
Key	Common Name	Scientific Name	Qty.	Size		
WFY	Walter Funcke Yarrow	Achillea millefolium 'Walter Funcke'	173	1 gal.		
SOLB	Standing Ovation Little Bluestem	Schizachyrium scoparium 'Standing Ovation'	143	1 gal.		
ASP	Allium 'Summer Peek-A-Boo'	Allium 'MGssmmpk 13'	30	1 gal.		

PHASE 1 FIELD RENOVATIONS LANDSCAPE PLAN

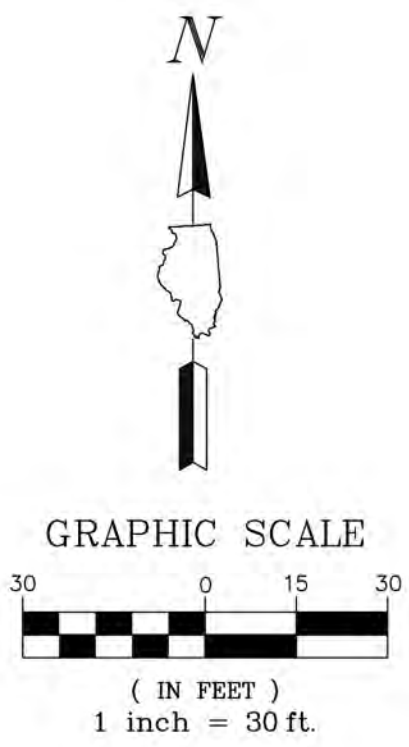
Township High School District 214
2/13/2024

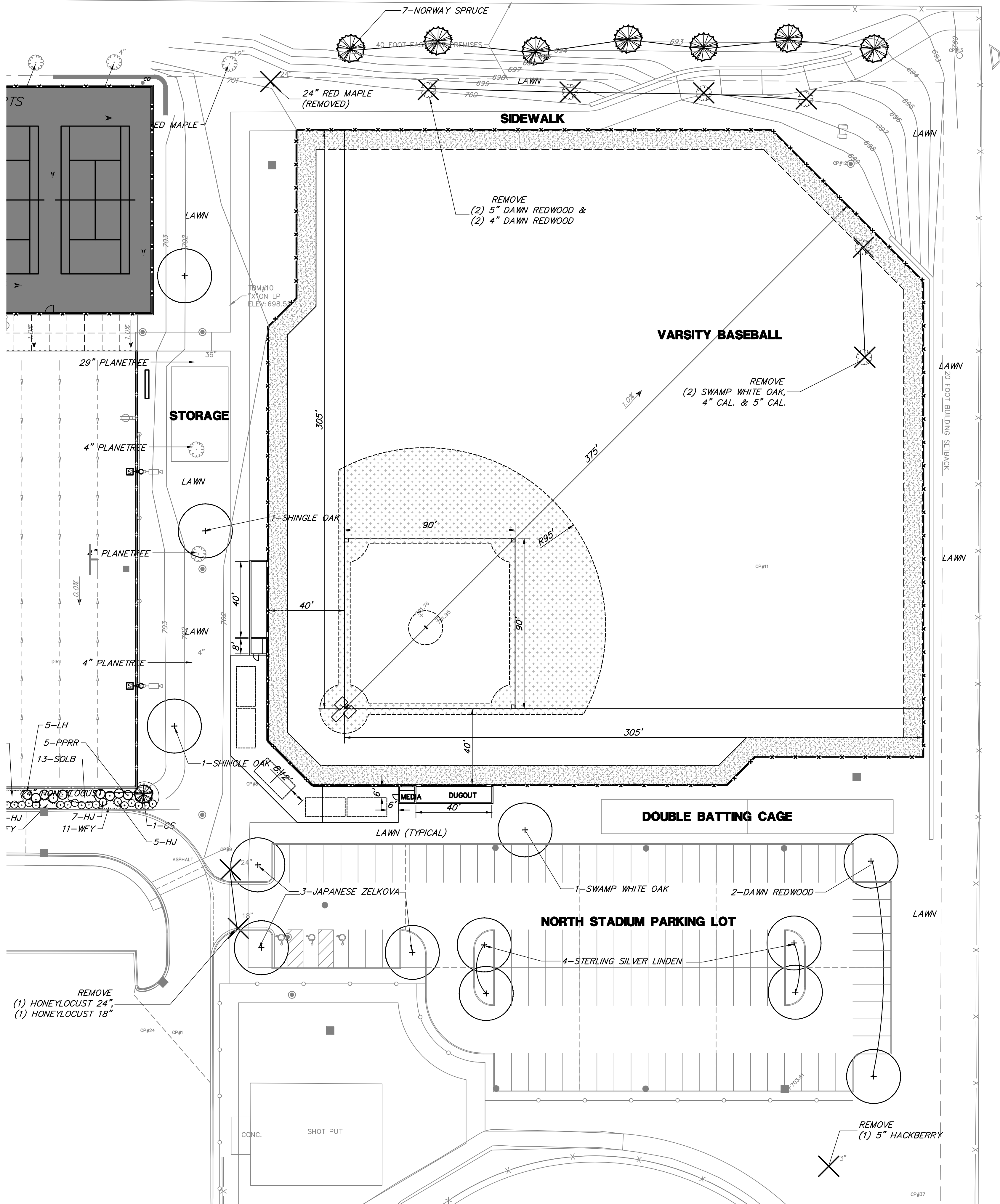
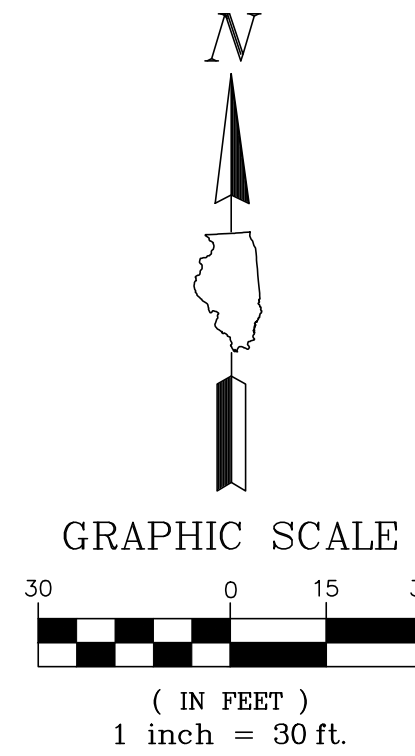




TREE REMOVAL SCHEDULE

TREE REMOVALS					
Designation	Common Name	Scientific Name	Qty.	Size	Notes
Key Tree	Planetree	Platanoides x acerifolia 'Bloodgood'	1	29"	Good
Key Tree	Honeylocust	Gleditsia triacanthos	1	24"	Good
Sign. Tree	Red Maple	Acer rubrum	1	14"	Poor
Sign. Tree	Red Maple	Acer rubrum	2	12"	Fair
Sign. Tree	Red Maple	Acer rubrum	1	4"	Good
Sign. Tree	Bald Cypress	Taxodium distichum	1	4"	Good
Sign. Tree	Triumph Elm	Ulmus 'Morton Glossy'	2	5"	Good
Sign. Tree	Triumph Elm	Ulmus 'Morton Glossy'	1	4"	Good
Sign. Tree	Swamp White Oak	Quercus bicolor	1	4"	Good
Sign. Tree	Planetree	Platanoides x acerifolia 'Bloodgood'	3	4"	Good
	Linden	Tilia species	1	2"	Fair
	Arborvitae	Arborvitae	1	6'	Fair





PLANT LIST		
QTY.	PLANT NAME	SIZE
3	SHINGLE OAK	4" BB
3	JAPANESE ZELKOVA	4" BB
1	SWAMP WHITE OAK	4" BB
2	DAWN REDWOOD	4" BB
4	STERLING SILVER LINDEN	4" BB
7	NORWAY SPRUCE	8" BB

Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
F1-F4	70'	70'	7	TLC-LED-1500	9.87 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
4			36		44.08 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Football	44.08 kW	36

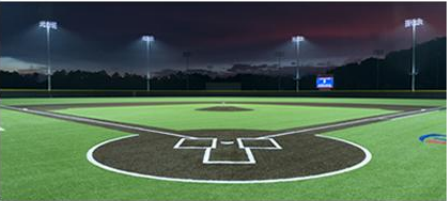
Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	28

Single Luminaire Amperage Draw Chart							
Driver Specifications (.90 min power factor)		Line Amperage Per Luminaire (max draw)					
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
150' Spill	Horizontal Illuminance	0.02	0	0.07	25.07		A	36
150' Spill Max Candela	Max Candela (by Fixture)	1602	167	5115	30.67	9.60	A	36
Blanket Grid	Horizontal Illuminance	12.3	0	59	0.00		A	36
Football	Horizontal Illuminance	51	44	56	1.28	1.16	A	36
Lacrosse	Horizontal Illuminance	51	44	56	1.28	1.16	A	36
Road/House Spill	Horizontal	0	0	0	0.00		A	36
Road/House Spill-Candela	Max Candela (by Fixture)	84.1	0	869	0.00		A	36
Soccer	Horizontal Illuminance	51.5	43	59	1.36	1.20	A	36

From Hometown to Professional



Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	F1-F4	70'	-	70.3'	TLC-LED-1500	7	7	0
				15.5'	TLC-BT-575	2	2	0
4	Totals					36	36	0

*Above Grade level relative to the field



Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	F1-F4	70'	-	70.3'	TLC-LED-1500	7	7	0
				15.5'	TLC-BT-575	2	2	0
4				Totals		36	36	0

*Above Grade level relative to the field



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ✕

Buffalo Grove, IL

Grid Summary		
Name	Road/House Spill-Candela	
Spacing	30.0' x 10.0'	
Height	5.0' above grade	

Illumination Summary	
MAINTAINED VERTICAL FOOTCANDLE	
Entire Grid	
Scan Average	84.09
Maximum	869
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	63
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	44.08 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	F1-F4	70'	-	70.3'	TLC-LED-1500	7	7	0
				15.5'	TLC-BT-575	2	2	0
4	Totals					36	36	0

*Above Grade level relative to the field



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

Buffalo Grove, IL

Grid Summary	
Name	Football
Size	360' x 160'
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Guaranteed Average	50
Scan Average	51.00
Maximum	56
Minimum	44
Avg/Min	1.17
Guaranteed Max/Min	2
Max/Min	1.28
UG (adjacent pts)	1.15
CU	0.59
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	44.08 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

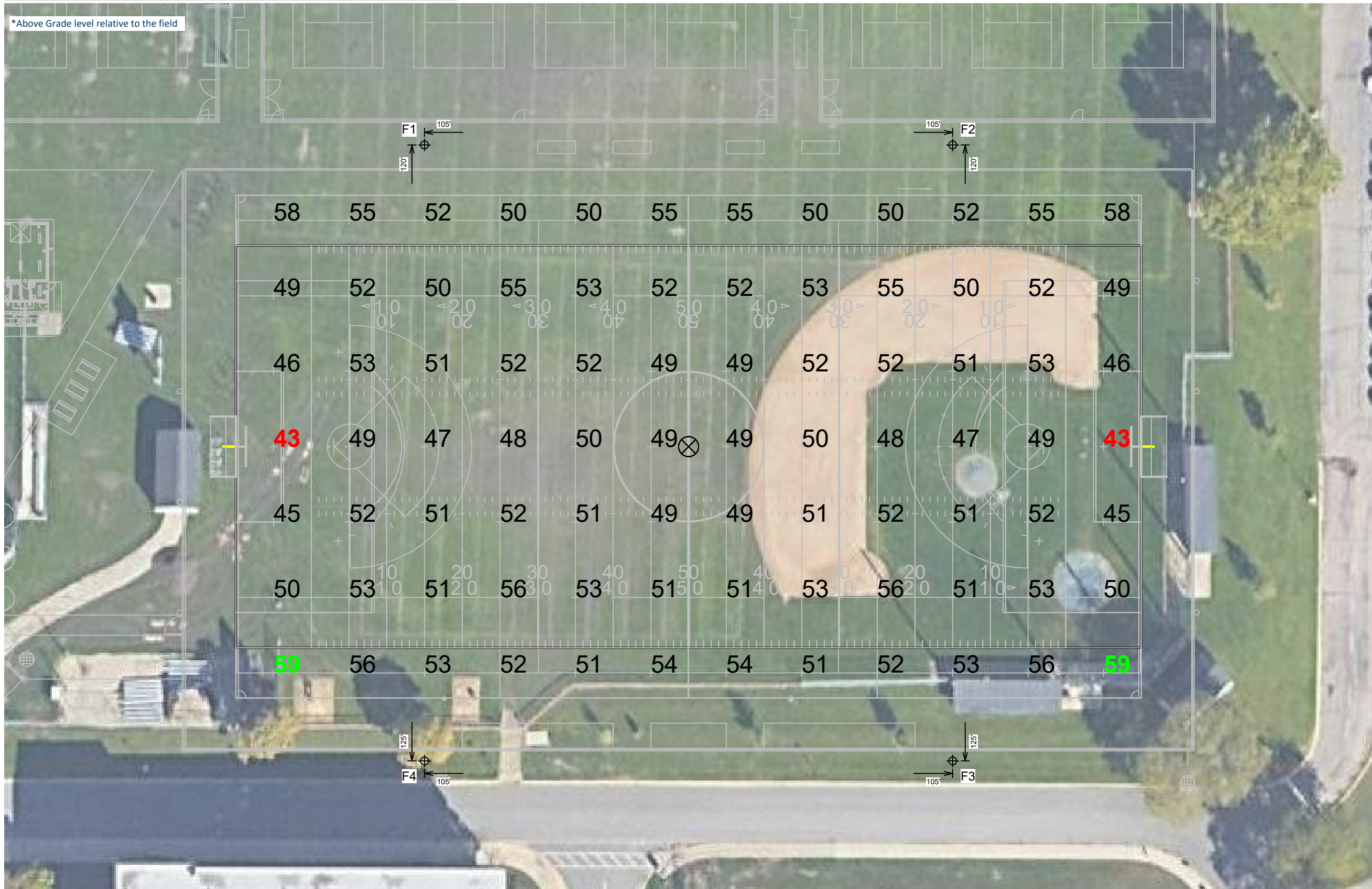
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	F1-F4	70'	-	70.3'	TLC-LED-1500	7	7	0
				15.5'	TLC-BT-575	2	2	0
4	Totals					36	36	0

*Above Grade level relative to the field



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

Grid Summary	
Name	Soccer
Size	360' x 200'
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Guaranteed Average	50
Scan Average	51.46
Maximum	59
Minimum	43
Avg/Min	1.19
Guaranteed Max/Min	2
Max/Min	1.36
UG (adjacent pts)	1.19
CU	0.70
No. of Points	84
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	44.08 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

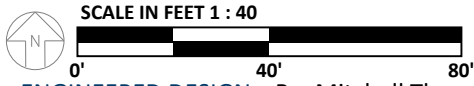
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	F1-F4	70'	-	70.3'	TLC-LED-1500	7	7	0
				15.5'	TLC-BT-575	2	2	0
4	Totals					36	36	0

*Above Grade level relative to the field



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Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

Buffalo Grove, IL

Grid Summary	
Name	Lacrosse
Size	360' x 180'
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Guaranteed Average	50
Scan Average	51.00
Maximum	56
Minimum	44
Avg/Min	1.17
Guaranteed Max/Min	2
Max/Min	1.28
UG (adjacent pts)	1.15
CU	0.59
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	44.08 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

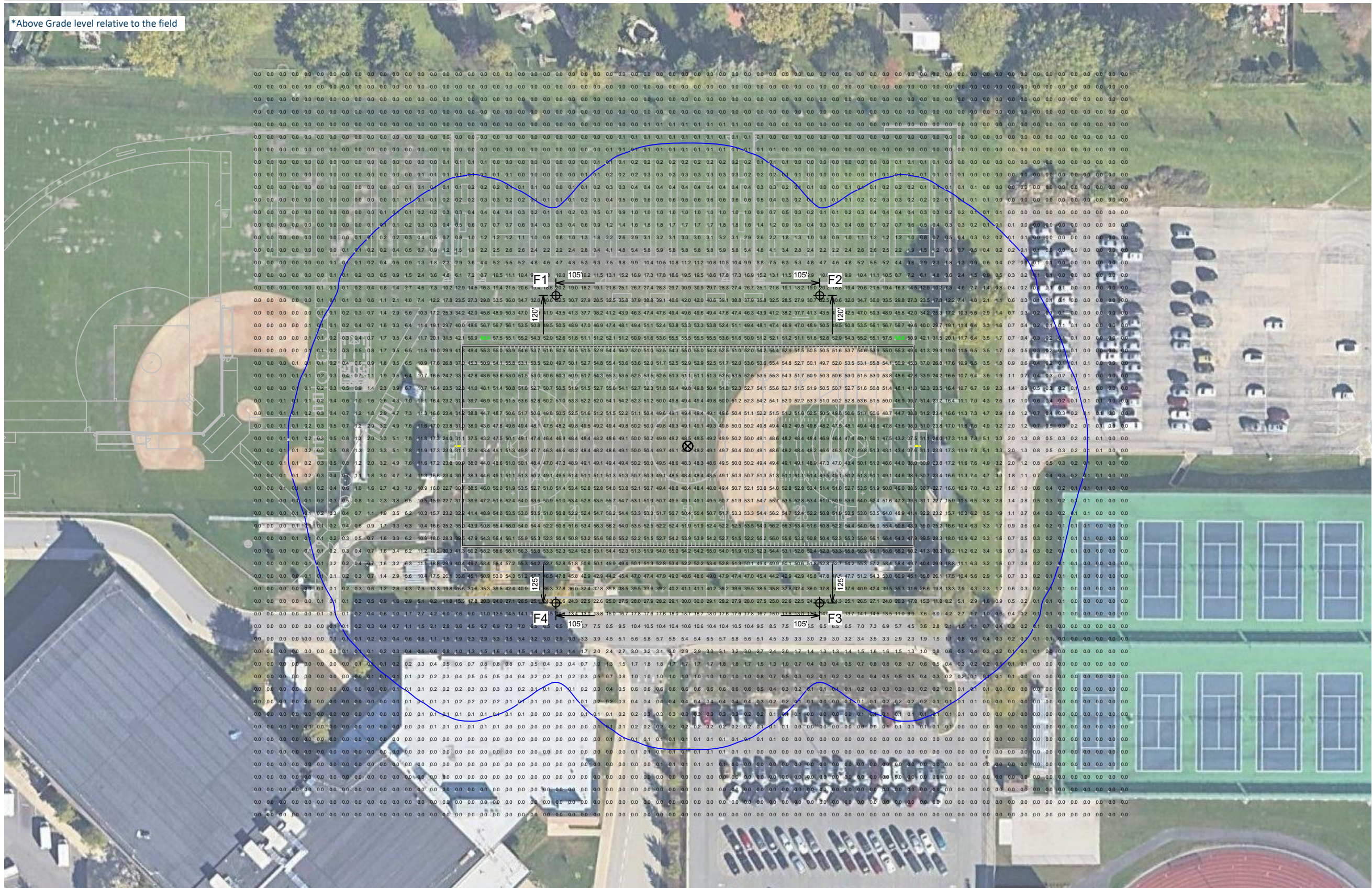
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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Equipment List For Areas Shown							
Pole				Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID
4	F1-F4	70'	-	70.3' 15.5'	TLC-LED-1500 TLC-BT-575	7 2	7 2
4	Totals					36	36
						0	0



N

0'80'160'

SCALE IN FEET 1 : 80

ENGINEERED DESIGN

By: Mitchell Thys • File #202074C_1 • 07-Feb-24

Pole location(s) ⊕ dimensions are relative
to 0,0 reference point(s) ✕

Buffalo Grove Multipurpose Field2.1.b

Buffalo Grove, IL

Grid Summary	
Name	Blanket Grid
Size	700' x 600'
Spacing	10.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOT CANDLE	
Entire Grid	
Scan Average	12.33
Maximum	59
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	20.90
CU	0.92
No. of Points	400
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	44.08 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

NOTES: Contour line shows light out to 0.1FC

musco

Lighting

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Buffalo Grove, IL

Grid Summary

Name 150' Spill Max Candela
Spacing 30.0' x 30.0'
Height 5.0' above grade

Illumination Summary

MAINTAINED CANDELA (PER LUM)	
Entire Grid	
Scan Average	1601.5840
Maximum	5115.35
Minimum	166.79
CU	0.00
No. of Points	69
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	44.08 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Buffalo Grove, IL

Grid Summary	
Name	150' Spill
Spacing	30.0' x 30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOT CANDLE	
Entire Grid	
Scan Average	0.0223
Maximum	0.07
Minimum	0.00
CU	0.00
No. of Points	69
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	36
Total Load	44.08 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.





Buffalor Grove Multipurpose Field 2.1.b

Buffalo Grove, IL

Equipment Layout

- INCLUDES:**
- Blanket Grid
 - Football
 - Lacrosse
 - Soccer

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

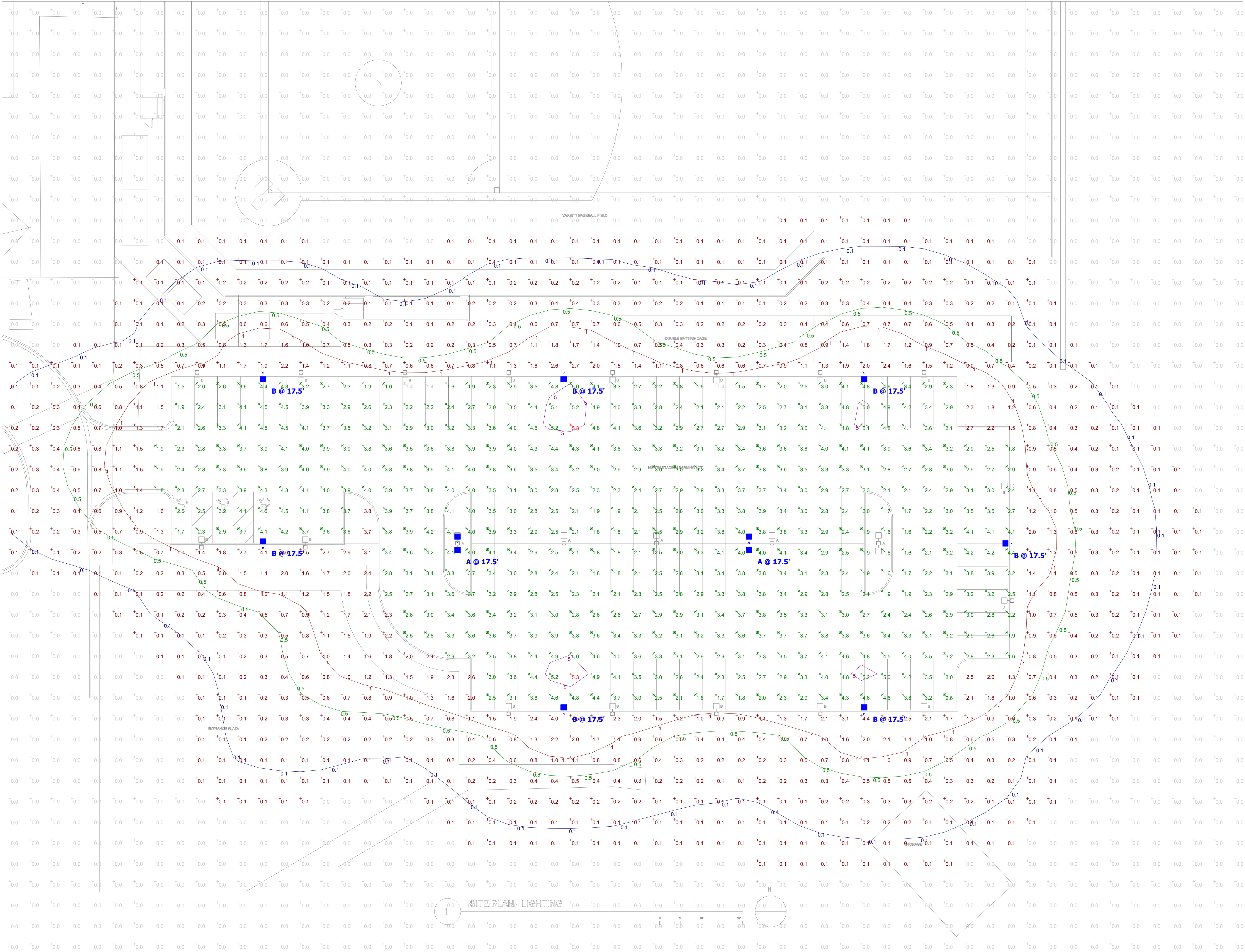
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown

QTY	Pole			Luminaires		Q
	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	
4	F1-F4	70'	-	70.3' 15.5'	TLC-LED-1500 TLC-BT-575	
4	Totals					

Single Luminaire Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)					
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)
Single Phase Voltage						
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6



Plan View
Scale - 1/16" = 1ft

Schedule									
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
	A	2	Lithonia Lighting	DSX1 LED P3 50K 70CRI TSW	D-Series Size 1 Area Luminaire P3 Performance Package 5000K CCT 70 CRI Type 5 Wide	1	14889	0.93	204.34
	B	7	Lithonia Lighting	DSX1 LED P3 50K 70CRI T3M	D-Series Size 1 Area Luminaire P3 Performance Package 5000K CCT 70 CRI Type 3 Medium	1	14031	0.93	102.17

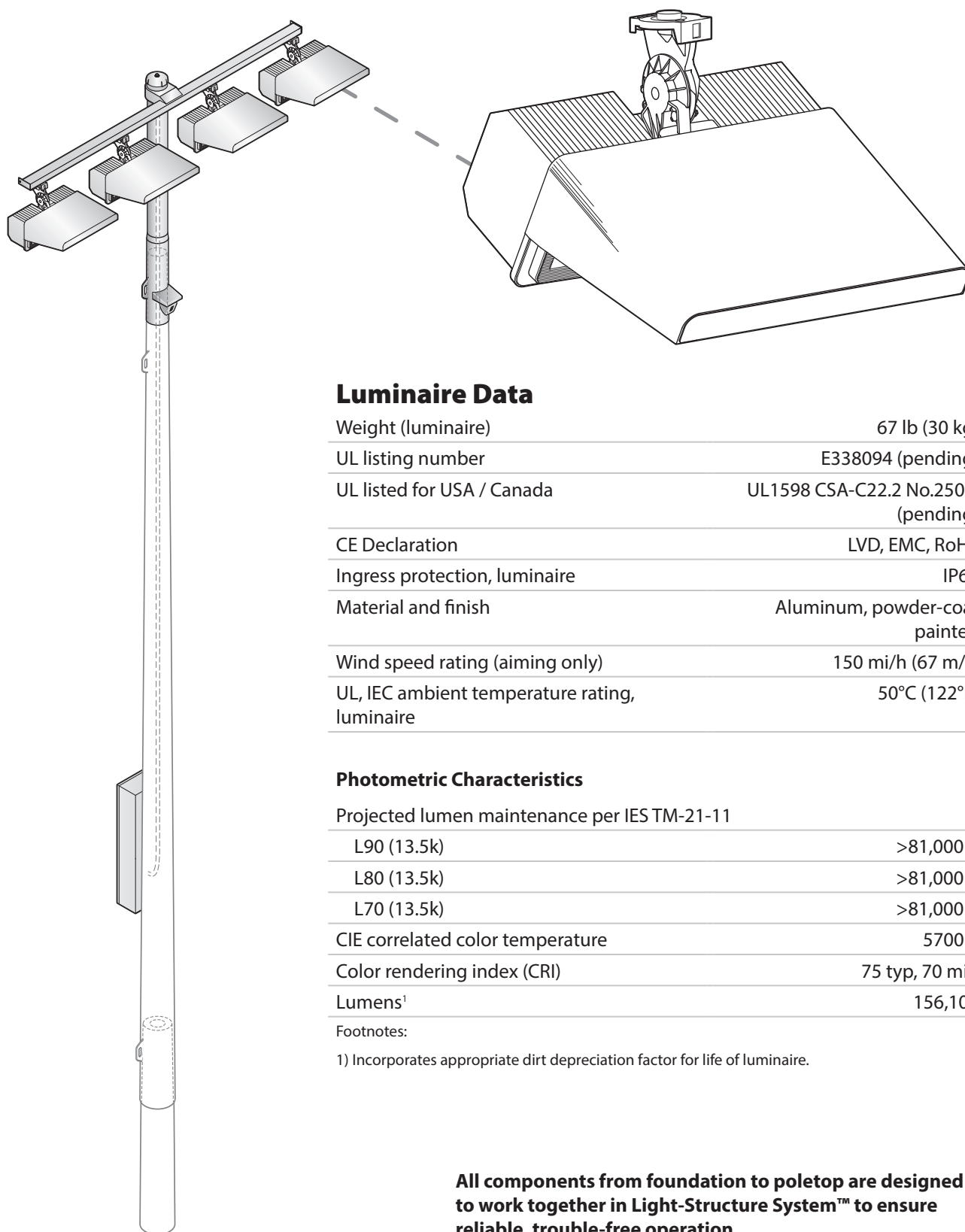
Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING LOT		3.2 fc	5.3 fc	1.4 fc	3.8:1	2.3:1

NOTES:

1. CALCULATION POINT WORK PLANE: GRADE LEVEL

2. FIXTURE MOUNTING HEIGHT: REFER TO FIXTURE LABELS NOTED ON PLAN

3. CALCULATIONS PROVIDED BY KSA ARE NOT A GUARANTEE OF PERFORMANCE. ACTUAL LIGHT LEVELS MAY VARY.**

Luminaire and Driver – TLC-LED-1500**Luminaire Data**

Weight (luminaire)	67 lb (30 kg)
UL listing number	E338094 (pending)
UL listed for USA / Canada	UL1598 CSA-C22.2 No.250.0 (pending)
CE Declaration	LVD, EMC, RoHS
Ingress protection, luminaire	IP65
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL, IEC ambient temperature rating, luminaire	50°C (122°F)

Photometric Characteristics

Projected lumen maintenance per IES TM-21-11

L90 (13.5k)	>81,000 h
L80 (13.5k)	>81,000 h
L70 (13.5k)	>81,000 h
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
Lumens ¹	156,100

Footnotes:

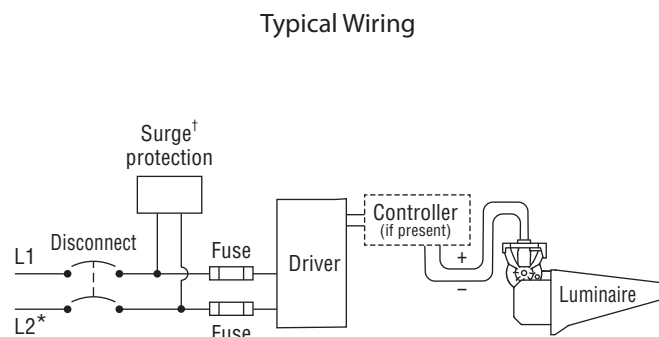
1) Incorporates appropriate dirt depreciation factor for life of luminaire.

All components from foundation to poletop are designed to work together in Light-Structure System™ to ensure reliable, trouble-free operation.

Attachment: Final Plan Set Public Hearing (1100 W Dundee Road - Special Use Amd., Fence Variation for BGHS)

Luminaire and Driver – TLC-LED-1500**Driver Data****Electrical Data**Rated wattage¹

Per driver	1500 W
Per luminaire	1500 W
Number of luminaires per driver	1
Starting (inrush) current	<40 A, 256 μ s
Fuse rating	15 A
UL, IEC ambient temperature rating, electrical components enclosure	45°C (113°F) - pending
Ingress protection, electrical components enclosure	IP54
Efficiency	95%
Dimming mode	optional
Range, energy consumption	11 – 100%
Range, light output	16 – 100%



* If L2 (com) is neutral then not switched or fused.

† Not present if indoor installation.

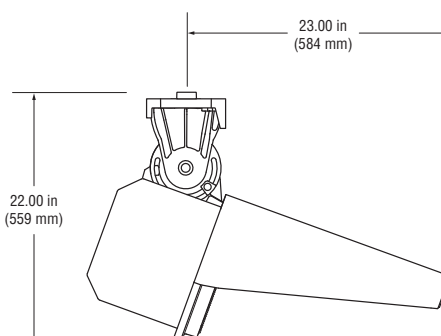
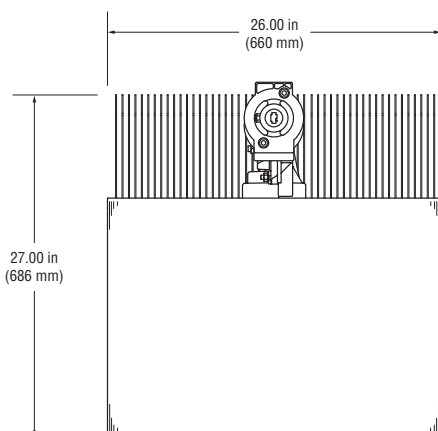
	200 Vac 50/60 Hz	208 Vac 60 Hz	220 Vac 50/60 Hz	230 Vac 50 Hz	240 Vac 50/60 Hz	277 Vac 60 Hz	347 Vac 60 Hz	380 Vac 50/60 Hz	400 Vac 50 Hz	415 Vac 50 Hz	480 Vac 60 Hz
Max operating current per luminaire ²	9.30 A	8.95 A	8.46 A	8.09 A	7.75 A	6.72 A	5.36 A	4.90 A	4.65 A	4.49 A	3.88 A

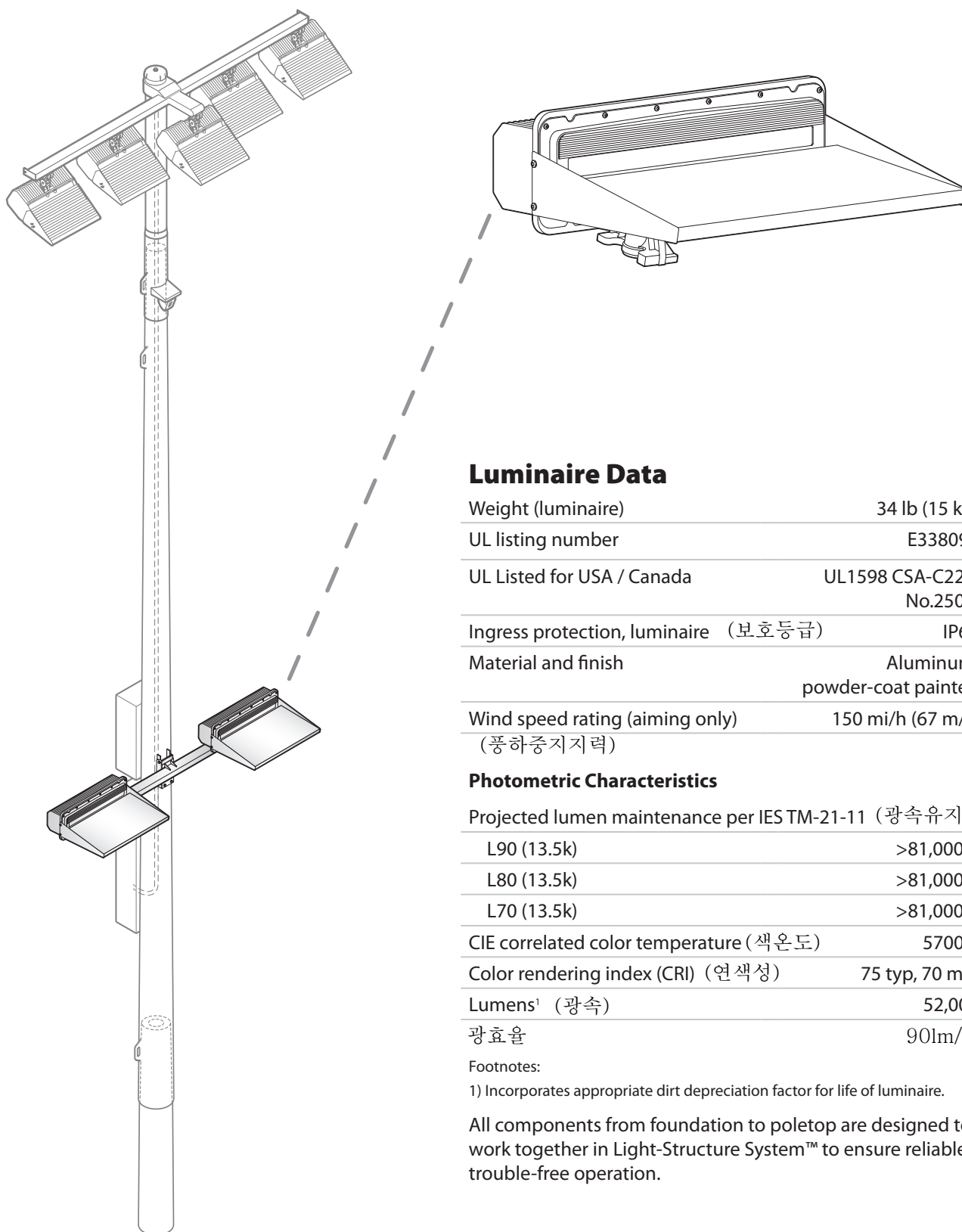
Footnotes:

- 1) Rated wattage is the power consumption, including driver efficiency losses, at stabilized operation in 25°C ambient temperature environment.
- 2) Operating current includes allowance for 0.90 minimum power factor, operating temperature, and LED light source manufacturing tolerances.

Notes

1. Use thermal magnetic HID-rated or D-curve circuit breakers.
2. See *Musco Control System Summary* for circuit information.



Luminaire and Driver Components – TLC-BT-575 (업라이트용)**Luminaire Data**

Weight (luminaire)	34 lb (15 kg)
UL listing number	E338094
UL Listed for USA / Canada	UL1598 CSA-C22.2 No.250.0
Ingress protection, luminaire (보호등급)	IP65
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only) (풍하중지지력)	150 mi/h (67 m/s)

Photometric Characteristics

Projected lumen maintenance per IES TM-21-11 (광속유지수 ¹)	
L90 (13.5k)	>81,000 h
L80 (13.5k)	>81,000 h
L70 (13.5k)	>81,000 h
CIE correlated color temperature (색온도)	5700 K
Color rendering index (CRI) (연색성)	75 typ, 70 min
Lumens ¹ (광속)	52,000
광효율	90lm/W

Footnotes:

1) Incorporates appropriate dirt depreciation factor for life of luminaire.

All components from foundation to poletop are designed to work together in Light-Structure System™ to ensure reliable, trouble-free operation.

Attachment: Final Plan Set Public Hearing (1100 W Dundee Road - Special Use Amd., Fence Variation for BGHS)

Luminaire and Driver Components – TLC-BT-575

Driver Data

Electrical Data

Rated wattage¹

Per driver 575 W

Per luminaire 575 W

Number of luminaires per driver 1

Starting (inrush) current <40 A, 256 μ s

Fuse rating 15 A

UL, IEC ambient temperature rating, electrical components enclosure 50°C (122°F)

Ingress protection, ECE box (보호등급) IP45

Coverter mode (컨버터 방식) Constant current(CC)

Efficiency (컨버터 효율) 95%이상

	200 Vac 50/60 Hz	208 Vac 60 Hz	220 Vac 50/60 Hz	230 Vac 50 Hz	240 Vac 50/60 Hz	277 Vac 60 Hz	347 Vac 60 Hz	380 Vac 50/60 Hz	400 Vac 50 Hz	415 Vac 50 Hz	480 Vac 60 Hz
Max operating current² per luminaire	3.48 A	3.35 A	3.16 A	3.03 A	2.90 A	2.51 A	2.01 A	1.83 A	1.74 A	1.68 A	1.45 A

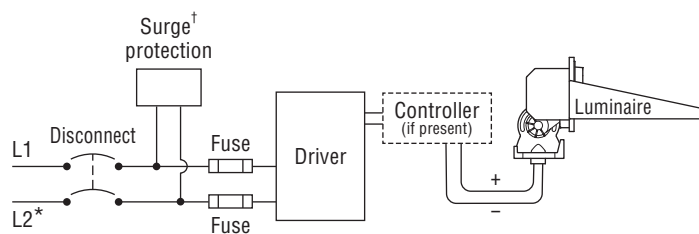
Footnotes:

- 1) Rated wattage is the power consumption, including driver efficiency losses, at stabilized operation in 25°C ambient temperature environment.
- 2) Operating current includes allowance for 0.90 minimum power factor, operating temperature, and LED light source manufacturing tolerances.

Notes

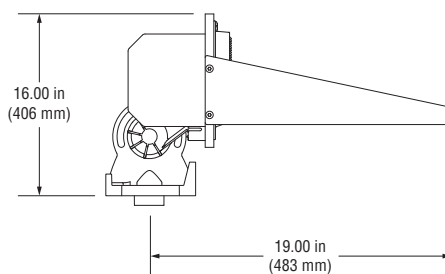
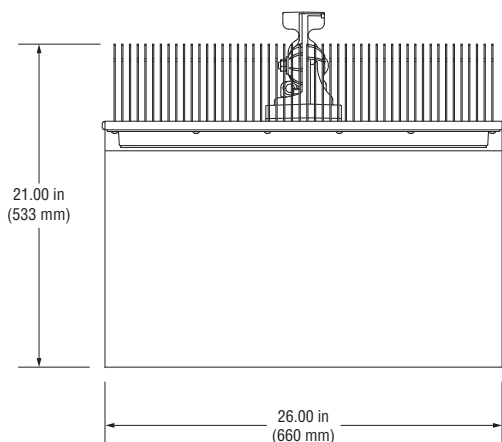
1. Use thermal magnetic HID-rated or D-curve circuit breakers.
2. See *Musco Control System Summary* for circuit information.

Typical Wiring



* If L2 (com) is neutral then not switched or fused.

† Not present if indoor installation.





D-Series Size 1

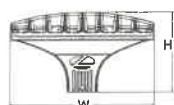
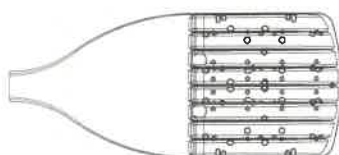
LED Area Luminaire



d²series

Specifications

EPA:	0.69 ft ² (0.06 m ²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.88" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)



Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED							
Series	LEDs	Color temperature ²	Color Rendering Index ²	Distribution		Voltage	Mounting
DSX1 LED	Forward optics	(this section 70CRI only)		AFR Automotive front row	T5M Type V medium	MVOLT (120V-277V) ⁴	Shipped included
	P1 P6	30K 3000K	70CRI	T1S Type I short	T5LG Type V low glare -	HVOLT (347V-480V) ^{5,6}	SPA Square pole mounting (#8 drilling)
	P2 P7	40K 4000K	70CRI	T2M Type II medium	T5W Type V wide	XVOLT (277V - 480V) ^{7,8}	RPA Round pole mounting (#8 drilling)
	P3 P8	50K 5000K	70CRI	T3M Type III medium	BLC3 Type III backlight control ³	120 ^{16,26}	SPAS Square pole mounting #5 drilling ⁹
	P4 P9	(this section 80CRI only, extended lead times apply)		T3LG Type III low glare ³	BLC4 Type IV backlight control ³	208 ^{16,26}	RPAS Round pole mounting #5 drilling ⁹
	P5			T4M Type IV medium	LCCO Left corner cutoff ³	240 ^{16,26}	SPA8N Square narrow pole mounting #8 drilling
	Rotated optics			T4LG Type IV low glare ³	RCCO Right corner cutoff ³	277 ^{16,26}	WBA Wall bracket ¹⁰
	P10 ¹ P12 ¹		80CRI	TFTM Forward throw medium		347 ^{16,26}	MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)
	P11 ¹ P13 ¹		80CRI			480 ^{16,26}	
		27K 2700K	80CRI				
		30K 3000K	80CRI				
		35K 3500K	80CRI				
		40K 4000K	80CRI				
		50K 5000K	80CRI				

Control options		Other options		Finish (required)	
Shipped installed		PER7	Seven-pin receptacle only (controls ordered separate) ^{14, 21}	Shipped installed	
NLTAIR2 PIRHN	nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. ^{11, 12, 20, 21}	FAO	Field adjustable output ^{15, 21}	SPD20KV	20KV surge protection
PIR	High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. ^{13, 20, 21}	BL30	Bi-level switched dimming, 30% ^{16, 21}	HS	Houseside shield (black finish standard) ²²
PER	NEMA twist-lock receptacle only (controls ordered separate) ¹⁴	BL50	Bi-level switched dimming, 50% ^{16, 21}	L90	Left rotated optics ¹
PERS	Five-pin receptacle only (controls ordered separate) ^{14, 21}	DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹⁷	R90	Right rotated optics ¹
		DS	Dual switching ^{18, 19, 21}	CCE	Coastal Construction ²³
				HA	50°C ambient operation ²⁴
				BAA	Buy America(n) Act Compliant
				SF	Single fuse (120, 277, 347V) ²⁶
				DF	Double fuse (208, 240, 480V) ²⁶
				Shipped separately	
				EGSR	External Glare Shield (reversible, field install required, matches housing finish)
				BSDB	Bird Spikes (field install required)
				DBBXD	Dark Bronze
				DBLXD	Black
				DNAXD	Natural Aluminum
				DWHXD	White
				DDBTXD	Textured dark bronze
				DBL BXD	Textured black
				DNATXD	Textured natural aluminum
				DWHGXD	Textured white



COMMERCIAL OUTDOOR

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DSX1-LED
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Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁵
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁵
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁵
DSHORT SBK	Shorting cap ²⁵
DSX1HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPAS (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX1EGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

NOTES

- 1 Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
- 2 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- 3 T3LG, T4LG, BLC3, BLC4, LCCO, RCOO not available with option HS.
- 4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 5 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- 6 HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
- 7 XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
- 8 XVOLT not available in packages P1 or P10. XVOLT not available with fusing (SF or DF).
- 9 SPAS and RPAS for use with #5 drilling only (Not for use with #8 drilling).
- 10 WBA cannot be combined with Type 5 distributions plus photocell (PER).
- 11 NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this [link](#).
- 12 NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1 and P10 using XVOLT.
- 13 PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS. PIR not available with P1 and P10 using HVOLT. PIR not available with P1 and P10 using XVOLT.
- 14 PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- 15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
- 16 BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS. BL30 or BL50 must specify 120, 277 or 347V. Consult tech support for 208, 240 or 480V.
- 17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
- 18 DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
- 19 DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
- 20 Reference Motion Sensor Default Settings table on page 4 to see functionality.
- 21 Reference Controls Options table on page 4.
- 22 HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCOO distribution. Also available as a separate accessory; see Accessories information.
- 23 CCE option not available with option BS and EGRS. Contact Technical Support for availability.
- 24 Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
- 25 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
- 26 Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



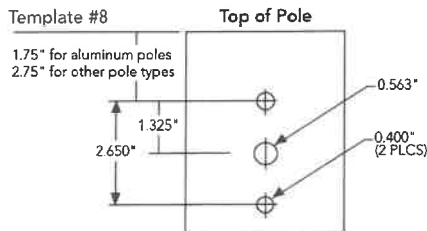
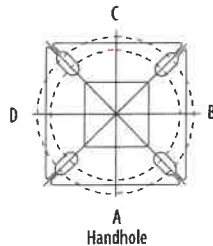
External Glare Shield (EGSR)



House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPAS	#5	3"	3"	3"	3"		3"
RPAS	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX1 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

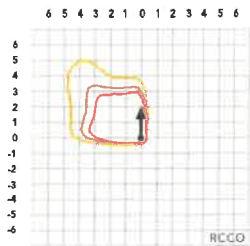
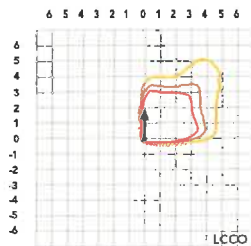
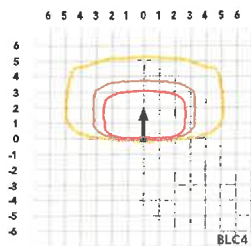
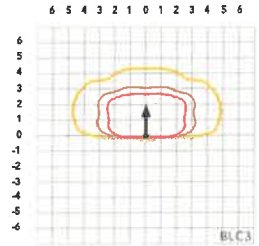
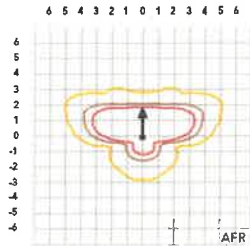
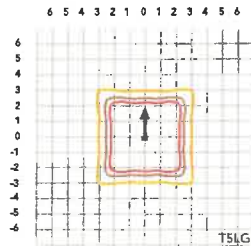
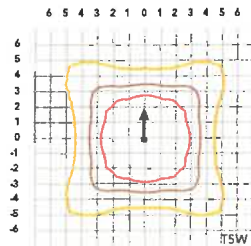
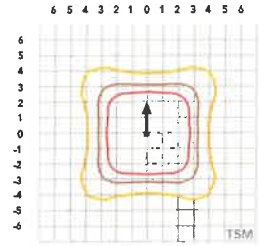
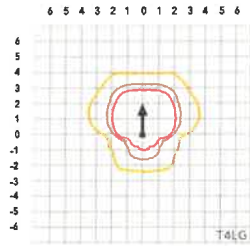
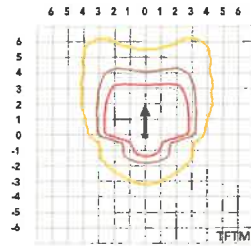
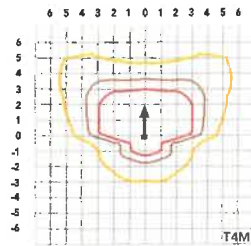
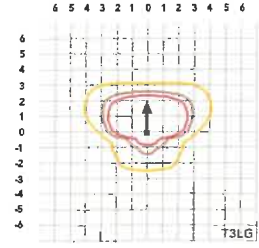
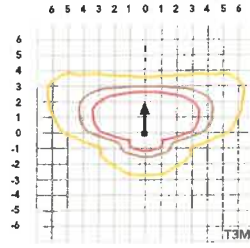
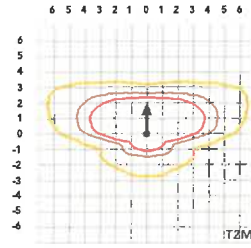
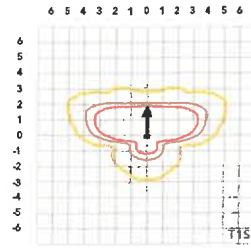
Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	—	1.58
DSX1 with SPAS, SPA8N	0.70	1.40	1.30	1.66	—	1.68
DSX1 with RPA, RPAS	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit [Lithonia Lighting's homepage](https://www.lithonia.com).

Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

LEGEND



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on specification sheet (input watts and lumens by optic type).

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A)					
					120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
	P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
	P4	30	1250	125	1.03	0.60	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	1100	216	1.80	1.04	0.90	0.78	0.62	0.45
	P9	60	1400	279	2.31	1.33	1.15	1.00	0.80	0.58
Rotated Optics (Requires L90 or R90)	P10	60	530	101	0.84	0.49	0.42	0.37	0.29	0.21
	P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
	P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
	P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80 CRI		90 CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads.
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Edypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the iAlRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																							
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K								
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
P1	51W	30	530	T1S	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162				
				T2M	7,203	1	0	3	142	7,507	2	0	3	147	7,653	2	0	3	150				
				T3M	7,287	1	0	3	143	7,594	1	0	3	149	7,742	1	0	3	152				
				T3LG	6,509	1	0	1	128	6,783	1	0	1	133	6,916	1	0	1	136				
				T4M	7,395	1	0	3	145	7,707	1	0	3	151	7,857	1	0	3	154				
				T4LG	6,726	1	0	1	132	7,010	1	0	1	138	7,146	1	0	1	140				
				TFTM	7,446	1	0	3	146	7,760	1	0	3	152	7,912	1	0	3	155				
				T5M	7,609	3	0	2	149	7,930	3	0	2	156	8,084	3	0	2	159				
				TSW	7,732	3	0	2	152	8,058	4	0	2	158	8,215	4	0	2	161				
				TSLG	7,631	3	0	1	150	7,953	3	0	1	156	8,108	3	0	1	159				
				BLC3	5,300	0	0	2	104	5,524	0	0	2	109	5,631	0	0	2	111				
				BLC4	5,474	0	0	3	108	5,705	0	0	3	112	5,816	0	0	3	114				
				RCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112				
				LCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112				
				AFR	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162				
				P2	68W	30	700	T1S	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
								T2M	9,260	2	0	3	137	9,651	2	0	3	142	9,839	2	0	3	145
T3M	9,368	2	0					3	138	9,763	2	0	3	144	9,953	2	0	3	147				
T3LG	8,368	1	0					2	123	8,721	1	0	2	129	8,891	1	0	2	131				
T4M	9,507	2	0					3	140	9,909	2	0	3	146	10,102	2	0	3	149				
T4LG	8,647	1	0					2	128	9,012	1	0	2	133	9,187	1	0	2	136				
TFTM	9,573	2	0					3	141	9,977	2	0	3	147	10,172	2	0	3	150				
T5M	9,782	4	0					2	144	10,195	4	0	2	150	10,393	4	0	2	153				
TSW	9,940	4	0					2	147	10,360	4	0	2	153	10,562	4	0	2	156				
TSLG	9,810	3	0					1	145	10,224	3	0	1	151	10,423	3	0	1	154				
BLC3	6,814	0	0					2	101	7,101	0	0	2	105	7,240	0	0	2	107				
BLC4	7,038	0	0					3	104	7,334	0	0	3	108	7,477	0	0	3	110				
RCCO	6,875	1	0					2	101	7,165	1	0	2	106	7,305	1	0	2	108				
LCCO	6,875	1	0					2	101	7,165	1	0	2	106	7,305	1	0	2	108				
AFR	9,997	1	0					2	147	10,418	1	0	2	154	10,621	1	0	2	157				
P3	102W	30	1050					T1S	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147
								T2M	13,055	2	0	3	128	13,605	2	0	3	133	13,871	2	0	3	136
				T3M	13,206	2	0	4	129	13,763	2	0	4	135	14,031	2	0	4	137				
				T3LG	11,797	2	0	2	115	12,294	2	0	2	120	12,534	2	0	2	123				
				T4M	13,403	2	0	4	131	13,968	2	0	4	137	14,241	2	0	4	139				
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124	12,952	2	0	2	127				
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138	14,339	2	0	4	140				
				T5M	13,790	4	0	2	135	14,371	4	0	2	141	14,652	4	0	2	143				
				TSW	14,013	4	0	3	137	14,605	4	0	3	143	14,889	4	0	3	146				
				TSLG	13,830	3	0	2	135	14,413	3	0	2	141	14,694	3	0	2	144				
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98	10,206	0	0	2	100				
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101	10,541	0	0	3	103				
				RCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101				
				LCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101				
				AFR	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147				

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P4	124W	30	1250	T1S	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
				T2M	15,207	3	0	4	123	15,849	3	0	4	128	16,158	3	0	4	130
				T3M	15,383	2	0	4	124	16,032	2	0	4	129	16,345	2	0	4	132
				T3LG	13,742	2	0	2	111	14,321	2	0	2	116	14,600	2	0	2	118
				T4M	15,613	2	0	4	126	16,272	2	0	4	131	16,589	2	0	4	134
				T4LG	14,200	2	0	2	115	14,799	2	0	2	119	15,087	2	0	2	122
				TFTM	15,721	2	0	4	127	16,384	2	0	4	132	16,703	2	0	4	135
				T5M	16,063	4	0	2	130	16,741	4	0	2	135	17,067	4	0	2	138
				TSW	16,324	5	0	3	132	17,013	5	0	3	137	17,344	5	0	3	140
				TSLG	16,110	3	0	2	130	16,790	4	0	2	135	17,117	4	0	2	138
				BLC3	11,190	0	0	3	90	11,662	0	0	3	94	11,889	0	0	3	96
				BLC4	11,557	0	0	3	93	12,044	0	0	3	97	12,279	0	0	4	99
				RCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				LCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				AFR	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
P5	138W	30	1400	T1S	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
				T2M	16,723	3	0	4	121	17,428	3	0	4	126	17,768	3	0	4	129
				T3M	16,917	3	0	4	122	17,630	3	0	4	128	17,974	3	0	4	130
				T3LG	15,111	2	0	2	109	15,749	2	0	2	114	16,055	2	0	2	116
				T4M	17,169	3	0	5	124	17,893	3	0	5	130	18,242	3	0	5	132
				T4LG	15,615	2	0	2	113	16,274	2	0	2	118	16,591	2	0	2	120
				TFTM	17,288	2	0	4	125	18,017	2	0	5	130	18,368	3	0	5	133
				T5M	17,664	5	0	3	128	18,410	5	0	3	133	18,768	5	0	3	136
				TSW	17,951	5	0	3	130	18,708	5	0	3	135	19,073	5	0	3	138
				TSLG	17,716	4	0	2	128	18,463	4	0	2	134	18,823	4	0	2	136
				BLC3	12,305	0	0	3	89	12,824	0	0	3	93	13,074	0	0	3	95
				BLC4	12,709	0	0	4	92	13,245	0	0	4	96	13,503	0	0	4	98
				RCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95
				LCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95
				AFR	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
P6	165W	40	1250	T1S	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135
				T2M	19,482	3	0	4	118	20,303	3	0	4	123	20,699	3	0	4	125
				T3M	19,708	3	0	5	119	20,539	3	0	5	124	20,939	3	0	5	127
				T3LG	17,604	2	0	2	107	18,347	2	0	2	111	18,704	2	0	2	113
				T4M	20,001	3	0	5	121	20,845	3	0	5	126	21,251	3	0	5	129
				T4LG	18,191	2	0	2	110	18,959	2	0	2	115	19,328	2	0	2	117
				TFTM	20,140	3	0	5	122	20,989	3	0	5	127	21,398	3	0	5	129
				T5M	20,579	5	0	3	125	21,447	5	0	3	130	21,865	5	0	3	132
				TSW	20,912	5	0	3	127	21,795	5	0	3	132	22,219	5	0	3	134
				TSLG	20,638	4	0	2	125	21,509	4	0	2	130	21,928	4	0	2	133
				BLC3	14,335	0	0	3	87	14,940	0	0	3	90	15,231	0	0	3	92
				BLC4	14,805	0	0	4	90	15,430	0	0	4	93	15,731	0	0	4	95
				RCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				LCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				AFR	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135



FEATURES & SPECIFICATIONS

INTENDED USE — These specifications are for USA standards only. Round Straight Steel is a general purpose light pole for up to 30-foot mounting heights. This pole provides a robust yet cost effective option for mounting area lights and floodlights.

CONSTRUCTION

Pole Shaft: The pole shaft is of 0.120" uniform wall thickness and is made of a weldable-grade, hot-rolled, commercial-quality steel tubing with a minimum yield of 42,000 psi. Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly round in cross-section down length of shaft with no taper. Standard shaft diameters are 3", 4", 4.5" and 5". 6" diameter shaft available by quote. Shaft wall thickness of .180" is available with certain tube diameters.

Pole Top: Options include tenon top, drilled for side mount fixture, 4" tenon with drilling (includes extra handhole) and open top. Side drilled and open top poles include a removable press-fit, black, low density polyethylene top cap.

Handhole: A reinforced handhole with grounding provision is provided at 12" or 18" from the base end of the pole assembly on side A. Every handhole includes a cover and cover attachment hardware. 2.5" x 5" rectangular handhole is provided on pole.

Base Cover: A two-piece ABS round plastic full base cover is provided with each pole assembly. Additional base cover options are available upon factory request. Options include fabricated two-piece sheet steel. All base covers are finished to match pole.

Anchor Base/Bolts: Anchor base is fabricated from hot-rolled carbon steel plate that conforms with ASTM A36. Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" blend on one end. All anchor bolts are hot-dipped galvanized a minimum of 12" nominal on the threaded end. Anchor bolts are made of steel rod having a minimum yield strength of 55,000 psi and a yield strength of 75,000 psi to 95,000 psi.

HARDWARE — All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

FINISH — Extra durable standard powder-coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to Hot-dipped Galvanized, Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 1-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Catalog Number
Notes
Type



Anchor Base Poles

RSS

ROUND STRAIGHT STEEL

BAA

RSS Round Straight Steel Pole

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: RSS 20 4-5B DM19 DDBXD

RSS					
Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness ¹	Mounting ²	Options	Finish
RSS	8'-30' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.) (See technical information table for complete ordering information.)	3B 3" 11ga (.120") 4B 4" 11ga (.120") 4-5B 4.5" 11ga (.120") 5B 5" 11ga (.120") (See technical information table for complete ordering information.)	<u>Tenon mounting</u> PT Open top T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) T35 4" O.D. (3-1/2" NPS) <u>KAC/KAD/KSE/KSF/KVR/KVF Drill mounting³</u> DM19 1 at 90° DM28 2 at 180° DM28PL 2 at 180° with one side plugged DM29 2 at 90° DM32 3 at 120° DM49 4 at 90° <u>CSX/DSX/RSX/AERIS™/OMERO™/KAX Drill mounting³</u> DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM32AS 3 at 120° DM39AS 3 at 90° DM49AS 4 at 90° <u>RAD drill mounting^{3,4}</u> DM19RAD 1 at 90° DM28RAD 2 at 180° DM29RAD 2 at 90° DM32RAD 3 at 120° DM39RAD 3 at 90° DM49RAD 4 at 90° <u>ESX Drill mounting³</u> DM19ESX 1 at 90° DM28ESX 2 at 180° DM29ESX 2 at 90° DM32ESX 3 at 120° DM39ESX 3 at 90° DM49ESX 4 at 90°	<u>Shipped installed</u> VD Vibration damper ⁵ HAXy Horizontal arm bracket (1 fixture) ^{6,7} FDLxy Festoon outlet less electrical ^{6,8} CPL12/xy 1/2" coupling ⁶ CPL34/xy 3/4" coupling ⁶ CPL1/xy 1" coupling ⁶ NPL12/xy 1/2" threaded nipple ⁶ NPL34/xy 3/4" threaded nipple ⁶ NPL1/xy 1" threaded nipple ⁶ EHHxy Extra handhole ^{6,9} STLHHC Steel handhole cover (standard is plastic, finish is smooth) ¹⁰ FBCSTL2PC 2 Piece steel base cover (standard is plastic) ¹⁰ IC Interior coating ¹¹ L/AB Less anchor bolts (include when anchor bolts are not needed) TP Tamper resistant handhole cover fasteners NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled) UL UL listed with label (Includes NEC compliant cover) BAA Buy America(n) Act Compliant ¹² VM/original order# Match pole to prior order or project ¹³	<u>Super durable paint colors</u> DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DGCXD Charcoal gray DTGXD Tennis green DBRXD Bright red DSBXD Steel blue DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white <u>Other finishes</u> GALV Galvanized finish <u>Architectural colors and special finishes¹⁴</u> [PAINT] GALV Paint over galvanizing VP30 3 year warranty extension VP53 5 year warranty extension RAL#### Use designated Lithonia Lighting nomenclature in brochure Custom color Nomenclature assigned through Customer Care "Custom Color Process"

NOTES:

- Wall thickness will be signified with a "B" (11 Gauge) or a "F" (7-Gauge) in nomenclature. "B" - .120" | "F" - .180"
- PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, specify as drilling option/tenon option. The combination includes a required extra handhole.
Example: DM28/T20.
- Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
- DM19RAD, DM28RAD and DM32RAD require a minimum top O.D. of 4". DM29RAD, DM39RAD and DM49RAD require a minimum top O.D. of 4.25".
- VD not available with 3" pole. On 4" and 5" poles, VD cannot be installed if provisions (EHH, FDL, NPL, CPL) are located higher than 2/3 of the pole's total height.
Example: Pole height is 25ft. A provision cannot be placed above 16ft.
- Specify location and orientation when ordering option.
For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-".
Example: 5ft = 5 and 20ft 3in = 20-3
For "y": Specify orientation from handhole (A,B,C,D) Refer to the Handhole Orientation diagram below.
Example: 1/2" coupling at 5' 8", orientation C = CPL12/5-8C
- Horizontal arm is 18" x 2-3/8" O.D. tenon standard, with radius curve providing 12" rise and 2-3/8" O.D. If ordering two horizontal arm at the same height, specify with HAXxy.
Example: HA20BD.

- FDL does not come with GFCL outlet or handhole cover. These must be supplied by contractor or electrician.
- Combination of tenon-top and drill mount includes extra handhole. EHH includes cover.
- Plastic hand hole cover and base covers come standard with all poles. Items ship separately. Additional parts can be ordered as replacements.
- Provides enhanced corrosion resistance. N/A with GALV.
- Use when mill certifications are required.
- Must add original order number. Not for replacement parts or post sales issues, contact tech support or post sales teams. VM is used to ensure poles match in appearance exactly from order to order, on a single project site. A common use case would be a multi-phase project with multiple orders.
Example: VM/D10-36784
- Must be quoted through AQD. Finishes do not require RFA. RAL colors available are shown in "Architectural Colors brochure". Lead times may be extended up to 2 weeks due to paint procurement.

Accessories: Order as separate catalog number.

PL DT20	Plugs for ESX drillings
PL DT8	Plugs for DMxxAS drillings
FVD xxFT	Field installed vibration damper (snake style)

RSS Round Straight Steel Pole

TECHNICAL INFORMATION — EPA (ft ²) with 1.3 gust										
Catalog number	Nominal shaft length (ft)*	Pole shaft size (in x ft)	Wall thickness (in)	80 mph	Max weight	90 mph	Max weight	100 mph	Max weight	Approximate ship weight (lbs.)
RSS 8 4-5B	8	4.5 x 8.0	0.120	24.7	630	19.7	495	16.0	430	55
RSS 10 3B	10	3.0 x 10.0	0.120	10.0	250	7.7	190	6.0	175	55
RSS 10 4B	10	4.0 x 10.0	0.120	19.1	480	15	375	12.2	305	70
RSS 10 4-5B	10	4.5 x 10.0	0.120	24.5	615	19.5	490	15.8	395	75
RSS 12 3B	12	3.0 x 12.0	0.120	7.7	195	5.8	145	4.4	130	60
RSS 12 4B	12	4.0 x 12.0	0.120	15.0	390	11.8	300	9.5	240	80
RSS 12 4-5B	12	4.5 x 12.0	0.120	19.8	495	15.7	395	12.7	320	85
RSS 14 3B	14	3.0 x 14.0	0.120	6.0	175	4.4	130	3.3	90	70
RSS 14 4B	14	4.0 x 14.0	0.120	12.2	305	9.4	250	7.6	195	90
RSS 14 4-5B	14	4.5 x 14.0	0.120	16.2	405	12.8	320	10.3	260	95
RSS 15 4-5B	15	4.5 x 15.0	0.120	12.0	300	9.5	250	7.5	200	96
RSS 16 3B	16	3.0 x 16.0	0.120	4.6	125	3.2	100	2.3	60	80
RSS 16 4B	16	4.0 x 16.0	0.120	9.6	250	7.4	185	5.9	150	100
RSS 16 4-5B	16	4.5 x 16.0	0.120	13.1	330	10.2	265	8.2	205	105
RSS 18 3B	18	3.0 x 18.0	0.120	3.4	90	2.3	60	1.4	70	90
RSS 18 4B	18	4.0 x 18.0	0.120	7.6	190	5.7	180	4.5	130	110
RSS 18 4-5B	18	4.5 x 18.0	0.120	10.5	265	8.2	210	6.5	165	115
RSS 20 3B	20	3.0 x 20.0	0.120	2.4	100	1.4	75	--	--	100
RSS 20 4B	20	4.0 x 20.0	0.120	6.0	150	4.45	150	3.45	125	120
RSS 20 4-5B	20	4.5 x 20.0	0.120	8.5	215	6.6	165	5.2	130	130
RSS 20 5B	20	5.0 x 20.0	0.120	11.75	300	9.1	230	7.25	180	145
RSS 22 4-5B	22	4.5 x 22.0	0.120	6.0	150	4.5	125	3.75	100	134
RSS 25 4B	25	4.0 x 25.0	0.120	2.85	100	1.95	75	1.35	75	145
RSS 25 4-5B	25	4.5 x 25.0	0.120	4.8	130	3.6	90	2.7	90	145
RSS 25 5B	25	5.0 x 25.0	0.120	7.25	180	5.5	150	4.25	150	180
RSS 30 4-5B	30	4.5 x 30.0	0.120	2.3	80	1.5	75	1.0	60	185
RSS 30 5B	30	5.0 x 30.0	0.120	4.2	150	3	125	2.25	100	210

NOTE: EPA values are based ASCE 7-93 wind map.

*For 1/2 ft increments, add .6 to the pole height. Ex: 20-6 equals 20ft 6in.

RSS Round Straight Steel Pole

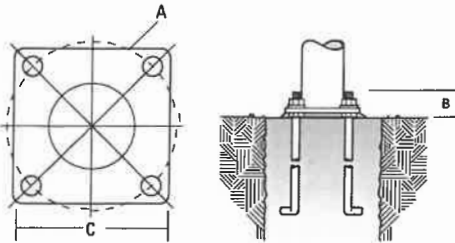
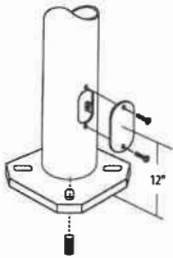
TECHNICAL INFORMATION — EPA (ft²) WITH 3-SECOND GUST PER AASHTO 2013

Series	Mounting Height (ft)*	Shaft Base Size	90 MPH	Max. weight	100 MPH	Max. weight	110 MPH	Max. weight	120 MPH	Max. weight	130 MPH	Max. weight	140 MPH	Max. weight	150 MPH	Max. weight	Approximate ship weight (lbs.)
RSS	8	4-5B	18.5	463	15	375	13	325	11	275	9.5	238	8	200	7	175	55
RSS	10	3B	6	150	5	125	4	100	3.5	88	2.5	63	2	50	2	50	55
RSS	10	4B	12	300	9.5	238	8	200	6.5	163	5.5	138	5	125	4.5	113	70
RSS	10	4-5B	15.5	388	12.5	313	10.5	263	9	225	7.5	188	6.5	163	6	150	75
RSS	12	3B	5	125	4	100	3	75	2.5	63	2	50	1.5	38	1	25	60
RSS	12	4B	10	250	8	200	6.5	163	5.5	138	4.5	113	4	100	3.5	88	80
RSS	12	4-5B	13	325	10.5	263	9	225	7.5	188	6.5	163	5.5	138	4.5	113	85
RSS	14	3B	4	100	3	75	2.5	63	2	50	1.5	38	1	25	0.5	13	70
RSS	14	4B	8.5	213	6.5	163	5.5	138	4	100	3.5	88	3	75	2.5	63	90
RSS	14	4-5B	11	275	9	225	7	175	6	150	5	125	4.5	113	4	100	95
RSS	15	4-5B	10	250	8	200	6.5	163	5.5	138	4.5	113	4	100	3.5	88	96
RSS	16	3B	3	75	2.5	63	1.5	38	1	25	0.5	13	0.5	13	-	-	80
RSS	16	4B	7	175	5.5	138	4	100	3	75	2.5	63	2	50	2	50	100
RSS	16	4-5B	9	225	7	175	6	150	5	125	4	100	3.5	88	3	75	105
RSS	18	3B	2.5	63	1.5	38	1	25	0.5	13	-	-	-	-	-	-	90
RSS	18	4B	5.5	138	4	100	3	75	2.5	63	2	50	1.5	38	1	25	110
RSS	18	4-5B	7.5	188	6	150	4.5	113	4	100	3	75	2.5	63	2	50	115
RSS	20	3B	2	50	1	25	0.5	13	-	-	-	-	-	-	-	-	100
RSS	20	4B	4.5	113	3	75	2	50	1.5	38	1	25	1	25	0.5	13	120
RSS	20	4-5B	6	150	4.5	113	3.5	88	3	75	2.5	63	2	50	1.5	38	130
RSS	20	5B	8	200	6.5	163	5.5	138	4.5	113	3.5	88	3	75	2.5	63	145
RSS	22	4-5B	5	125	3.5	88	2.5	63	2	50	1.5	38	1	25	1	25	134
RSS	25	4B	2.5	63	1	25	0.5	13	-	-	-	-	-	-	-	-	145
RSS	25	4-5B	3.5	88	2	50	1.5	38	1	25	0.5	13	-	-	-	-	145
RSS	25	5B	5	125	3.5	88	3	75	2	50	1.5	38	1.5	38	1	25	180
RSS	30	4-5B	1.5	38	-	-	-	-	-	-	-	-	-	-	-	-	185
RSS	30	5B	2.5	63	1.5	38	1	25	0.5	13	-	-	-	-	-	-	210

NOTE: AASHTO 2013 criteria is the most conservative existing EPA calculation. For poles not showing EPA values under AASHTO 2013, EPA values may exist under commercial criteria (see table above).

*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

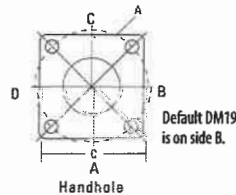
BASE DETAIL



ANCHORAGE AND TEMPLATE INFORMATION

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Template description	Anchor bolt description	Bolt size (in. x in. x in.)
3"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0	3/4 x 18 x 3
4"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0	3/4 x 18 x 3
4.5"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0	3/4 x 18 x 3
5"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0	3/4 x 18 x 3

HANDHOLE ORIENTATION



IMPORTANT INSTALLATION NOTES:

- Do not erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use factory template.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.

CAUTION: These specifications are intended for general purposes only. Lithonia Lighting reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.



POLE-RSS

OUTDOOR: One Lithonia Way Conyers, GA 30012 Phone: 800-705-SERV (7378) www.lithonia.com

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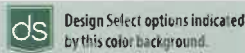
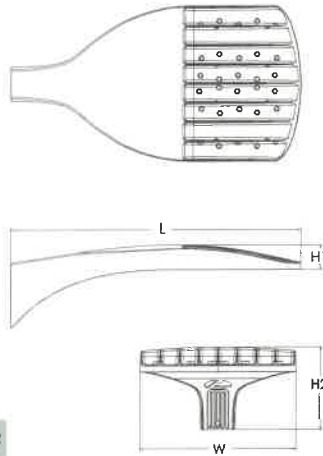
D-Series Size 0 LED Area Luminaire



d^{series}

Specifications

EPA:	0.44 ft ² (0.04 m ²)
Length:	26.18" (66.5 cm)
Width:	14.06" (35.7 cm)
Height H1:	2.26" (5.7 cm)
Height H2:	7.46" (18.9 cm)
Weight:	23 lbs (10.4 kg)



Catalog
Number

Notes

Type

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

Ordering Information

EXAMPLE: DSX0 LED P6 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED						
Series	LEDs	Color temperature ²	Color Rendering Index ²	Distribution		Voltage
DSX0 LED	Forward optics	(this section 70CRI only)		AFR	Automotive front row	TSM Type V medium
	P1 P5	30K 3000K	70CRI	T1S	Type I short	TSLG Type V low glare
	P2 P6	40K 4000K	70CRI	T2M	Type II medium	TSW Type V wide
	P3 P7	50K 5000K	70CRI	T3M	Type III medium	BLC3 Type III backlight control ³
	P4	(this section 80CRI only, extended lead times apply)		T3LG	Type III low glare ³	BLC4 Type IV backlight control ³
	Rotated optics			T4M	Type IV medium	LCCO Left corner cutoff ³
	P10 ¹ P12 ¹	27K 2700K	80CRI	T4LG	Type IV low glare ³	RCCO Right corner cutoff ³
	P11 ¹ P13 ¹	30K 3000K	80CRI	TFTM	Forward throw medium	
		35K 3500K	80CRI			
		40K 4000K	80CRI			
		50K 5000K	80CRI			
						MVOLT (120V-277V) ⁴
						HVOLT (347V-480V) ^{5,6}
						XVOLT (277V-480V) ¹⁸
						120 ^{16,24}
						208 ^{16,24}
						240 ^{16,24}
						277 ^{16,24}
						347 ^{16,24}
						480 ^{16,24}
						Shipped included
						SPA Square pole mounting (#8 drilling, 3" min. SQ pole)
						RPA Round pole mounting (#8 drilling, 3" min. RND pole)
						SPA5 Square pole mounting (#5 drilling, 3" min. SQ pole) ⁹
						RPA5 Round pole mounting (#5 drilling, 3" min. RND pole) ⁹
						SPA8N Square narrow pole mounting (#8 drilling, 3" min. SQ pole)
						WBA Wall bracket ¹⁰
						MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options	Other options	Finish (required)
Shipped installed	Shipped installed	DDBXD Dark Bronze
NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40" mounting height, ambient sensor enabled at 2fc ^{11,12,19}	HS Houseside shield (black finish standard) ²⁰	DBLXD Black
PIR High/low, motion/ambient sensor, 8-40" mounting height, ambient sensor enabled at 2fc ^{11,12,19}	L90 Left rotated optics ¹	DNAXD Natural Aluminum
PER NEMA twist-lock receptacle only (controls ordered separate) ¹⁴	R90 Right rotated optics ¹	DWHXD White
PERS Five-pin receptacle only (controls ordered separate) ^{14,19}	CCE Coastal Construction ²¹	DDBTXD Textured dark bronze
PER7 Seven-pin receptacle only (controls ordered separate) ^{14,19}	HA 50°C ambient operation ²²	DBLTXD Textured black
FAO Field adjustable output ^{15,19}	BAA Buy America(n) Act Compliant	DNATXD Textured natural aluminum
BL30 Bi-level switched dimming, 30% ^{16,19}	SF Single fuse (120, 277, 347V) ²⁴	DWHGXD Textured white
BL50 Bi-level switched dimming, 50% ^{16,19}	DF Double fuse (208, 240, 480V) ²⁴	
DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹⁷	Shipped separately	
	EGSR External Glare Shield (reversible, field install required, matches housing finish)	
	BSDB Bird Spikes (field install required)	



COMMERCIAL OUTDOOR

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Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 IU	Photocell - SSL twist-lock (120-277V) ²¹
DLL347F 1.5 CULIU	Photocell - SSL twist-lock (347V) ²¹
DLL480F 1.5 CULIU	Photocell - SSL twist-lock (480V) ²¹
DSHORT SBK	Shorting cap ²¹
DSX0HS P#	House-side shield (enter package number P1-7, P10-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXRPAS (FINISH)	Round pole adapter #5 drilling (specify finish)
DSXSPAS (FINISH)	Square pole adapter #5 drilling (specify finish)
DSX0EGSR (FINISH)	External glare shield (specify finish)
DSX0B5DB (FINISH)	Bird spike deterrent bracket (specify finish)

NOTES

- Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
- 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- HVOLT not available with package P1, P2 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
- XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
- XVOLT not available in packages P1, P2 or P10. XVOLT not available with fusing (SF or DF).
- SPAS and RPAS for use with #5 drilling only (Not for use with #8 drilling).
- WBA cannot be combined with Type 5 distributions plus photocell (PER).
- NLTAIR2 and PIRHN must be ordered together. For more information on nLight Air 2.
- NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50 and DMG. NLTAIR2 PIRHN not available with P1, P2 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1, P2 and P10 using XVOLT. NLTAIR2 PIRHN not available with P1 using MVOLT.
- PIR not available with NLTAIR2, PER, PER5, PER7, FAO, BL30, BL50 and DMG. PIR not available with P1, P2 and P10 using HVOLT. PIR not available with P1, P2 and P10 using XVOLT. PIR not available with P1 using MVOLT.
- PER/PER5/PER7 not available with NLTAIR2, PIR, BL30, BL50. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, or DMG.
- BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO and DMG. BL30 or BL50 must specify 120, 277 or 347V. Consult tech support for 208, 240 or 480V.
- DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50 and FAO.
- Reference Motion Sensor Default Settings table on page 4 to see functionality.
- Reference Controls Options table on page 4.
- Option HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- CCE option not available with option BS and EGSR. Contact Technical Support for availability.
- Option HA not available with performance packages P6, P7, P12 and P13.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
- Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



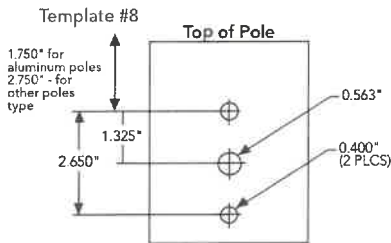
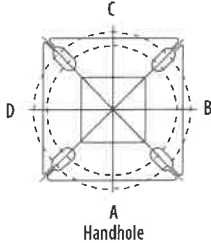
External Glare Shield (EGSR)



House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION (from top of pole)



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPAS	#5	3"	3"	3"	3"		3"
RPAS	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX0 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX0 with SPA	0.44	0.88	0.96	1.18	—	1.16
DSX0 with SPAS, SPA8N	0.51	1.02	1.06	1.26	—	1.29
DSX0 with RPA, RPAS	0.51	1.02	1.06	1.26	1.24	1.29
DSX0 with MA	0.64	1.28	1.24	1.67	1.70	1.93

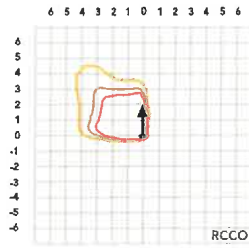
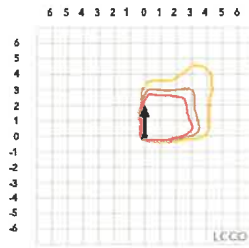
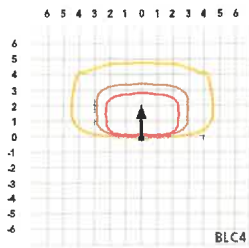
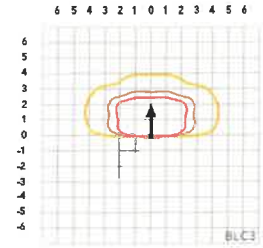
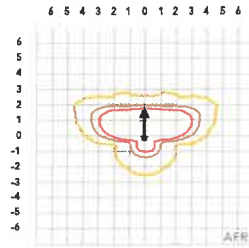
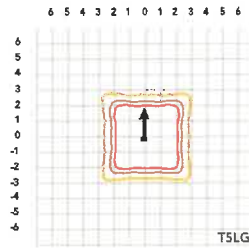
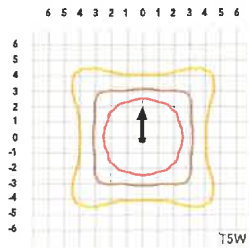
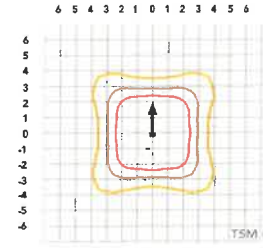
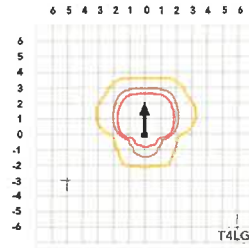
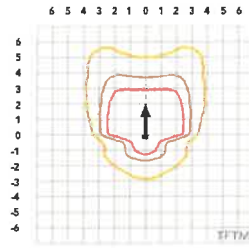
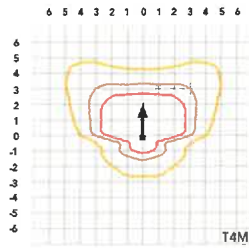
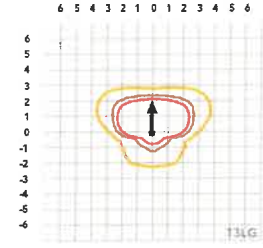
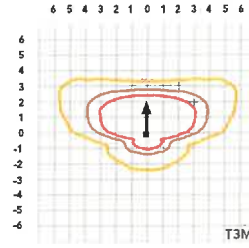
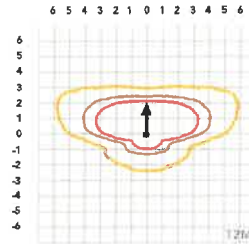
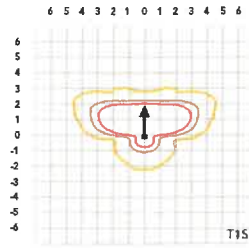
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit [Lithonia Lighting's homepage](#).

Isofootcandle plots for the DSX0 LED P7 40K 70CRI. Distances are in units of mounting height (20').

LEGEND

- 0.1 fc
- 0.5 fc
- 1.0 fc



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.94
50,000	0.89
100,000	0.80

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use published values for each package based on input watts and lumens by optic type.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CLAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current (mA)	Wattage	120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	20	530	34	0.28	0.16	0.14	0.12	0.10	0.07
	P2	20	700	45	0.38	0.22	0.19	0.16	0.13	0.09
	P3	20	1050	69	0.57	0.33	0.29	0.25	0.20	0.14
	P4	20	1400	94	0.78	0.45	0.39	0.34	0.27	0.19
	P5	40	700	89	0.75	0.43	0.38	0.33	0.26	0.19
	P6	40	1050	136	1.14	0.66	0.57	0.49	0.39	0.29
	P7	40	1300	170	1.42	0.82	0.71	0.62	0.49	0.36
Rotated Optics (Requires L90 or R90)	P10	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P11	30	700	67	0.57	0.33	0.28	0.25	0.20	0.14
	P12	30	1050	103	0.86	0.50	0.43	0.37	0.30	0.22
	P13	30	1300	129	1.07	0.62	0.54	0.46	0.37	0.27

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80 CRI		90 CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	33W	20	530	T1S	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157
				T2M	4,545	1	0	2	137	4,736	1	0	2	143	4,829	1	0	2	145
				T3M	4,597	1	0	2	138	4,791	1	0	2	144	4,885	1	0	2	147
				T3LG	4,107	1	0	1	124	4,280	1	0	1	129	4,363	1	0	1	131
				T4M	4,666	1	0	2	141	4,863	1	0	2	146	4,957	1	0	2	149
				T4LG	4,244	1	0	1	128	4,423	1	0	1	133	4,509	1	0	1	136
				TFTM	4,698	1	0	2	141	4,896	1	0	2	147	4,992	1	0	2	150
				T5M	4,801	3	0	1	145	5,003	3	0	1	151	5,101	3	0	1	154
				T5W	4,878	3	0	1	147	5,084	3	0	2	153	5,183	3	0	2	156
				T5LG	4,814	2	0	1	145	5,018	2	0	1	151	5,115	2	0	1	154
				BLC3	3,344	0	0	1	101	3,485	0	0	1	105	3,553	0	0	1	107
				BLC4	3,454	0	0	2	104	3,599	0	0	2	108	3,670	0	0	2	111
				RCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				LCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108
				AFR	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157
P2	45W	20	700	T1S	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
				T2M	5,862	1	0	2	130	6,109	1	0	2	135	6,228	1	0	2	138
				T3M	5,930	1	0	3	131	6,180	1	0	3	137	6,301	1	0	3	140
				T3LG	5,297	1	0	1	117	5,521	1	0	1	122	5,628	1	0	1	125
				T4M	6,018	1	0	3	133	6,272	1	0	3	139	6,395	1	0	3	142
				T4LG	5,474	1	0	1	121	5,705	1	0	1	126	5,816	1	0	1	129
				TFTM	6,060	1	0	3	134	6,316	1	0	3	140	6,439	1	0	3	143
				T5M	6,192	3	0	1	137	6,453	3	0	2	143	6,579	3	0	2	146
				T5W	6,293	3	0	2	139	6,558	3	0	2	145	6,686	3	0	2	148
				T5LG	6,210	2	0	1	138	6,472	3	0	1	143	6,598	3	0	1	146
				BLC3	4,313	0	0	2	96	4,495	0	0	2	100	4,583	0	0	2	102
				BLC4	4,455	0	0	2	99	4,643	0	0	2	103	4,733	0	0	2	105
				RCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				LCCO	4,352	0	0	2	96	4,536	0	0	2	100	4,624	0	0	2	102
				AFR	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
P3	69W	20	1050	T1S	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
				T2M	8,343	2	0	3	121	8,694	2	0	3	126	8,864	2	0	3	129
				T3M	8,439	2	0	3	122	8,795	2	0	3	128	8,967	2	0	3	130
				T3LG	7,539	1	0	2	109	7,857	1	0	2	114	8,010	1	0	2	116
				T4M	8,565	2	0	3	124	8,926	2	0	3	129	9,100	2	0	3	132
				T4LG	7,790	1	0	2	113	8,119	1	0	2	118	8,277	1	0	2	120
				TFTM	8,624	1	0	3	125	8,988	1	0	3	130	9,163	2	0	3	133
				T5M	8,812	3	0	2	128	9,184	4	0	2	133	9,363	4	0	2	136
				T5W	8,955	4	0	2	130	9,333	4	0	2	135	9,515	4	0	2	138
				T5LG	8,838	3	0	1	128	9,211	3	0	1	134	9,390	3	0	1	136
				BLC3	6,139	0	0	2	89	6,398	0	0	2	93	6,522	0	0	2	95
				BLC4	6,340	0	0	3	92	6,607	0	0	3	96	6,736	0	0	3	98
				RCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				LCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95
				AFR	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
P4	93W	20	1400	T1S	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130
				T2M	10,557	2	0	3	113	11,003	2	0	3	118	11,217	2	0	3	121
				T3M	10,680	2	0	3	115	11,130	2	0	3	120	11,347	2	0	3	122
				T3LG	9,540	1	0	2	103	9,942	1	0	2	107	10,136	1	0	2	109
				T4M	10,839	2	0	3	117	11,296	2	0	3	121	11,516	2	0	3	124
				T4LG	9,858	1	0	2	106	10,274	1	0	2	110	10,474	1	0	2	113
				TFTM	10,914	2	0	3	117	11,374	2	0	3	122	11,596	2	0	3	125
				T5M	11,152	4	0	2	120	11,622	4	0	2	125	11,849	4	0	2	127
				T5W	11,332	4	0	3	122	11,811	4	0	3	127	12,041	4	0	3	129
				T5LG	11,184	3	0	1	120	11,656	3	0	2	125	11,883	3	0	2	128
				BLC3	7,768	0	0	2	83	8,096	0	0	2	87	8,254	0	0	2	89
				BLC4	8,023	0	0	3	86	8,362	0	0	3	90	8,524	0	0	3	92
				RCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				LCCO	7,838	1	0	2	84	8,169	1	0	2	88	8,328	1	0	2	90
				AFR	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130

Attachment: Final Plan Set Public Hearing (1100 W Dundee Road - Special Use Amd., Fence Variation for BGHS)

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	90W	40	700	T1S	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
				T2M	11,468	2	0	3	127	11,952	2	0	3	133	12,185	2	0	3	135
				T3M	11,601	2	0	3	129	12,091	2	0	3	134	12,326	2	0	4	137
				T3LG	10,363	2	0	2	115	10,800	2	0	2	120	11,011	2	0	2	122
				T4M	11,774	2	0	4	131	12,271	2	0	4	136	12,510	2	0	4	139
				T4LG	10,709	1	0	2	119	11,160	2	0	2	124	11,378	2	0	2	126
				TFTM	11,856	2	0	3	132	12,356	2	0	4	137	12,596	2	0	4	140
				T5M	12,114	4	0	2	134	12,625	4	0	2	140	12,871	4	0	2	143
				TSW	12,310	4	0	3	137	12,830	4	0	3	142	13,080	4	0	3	145
				T5LG	12,149	3	0	2	135	12,662	3	0	2	141	12,908	3	0	2	143
				BLC3	8,438	0	0	2	94	8,794	0	0	2	98	8,966	0	0	2	99
				BLC4	8,715	0	0	3	97	9,083	0	0	3	101	9,260	0	0	3	103
				RCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				LCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				AFR	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
P6	137W	40	1050	T1S	17,545	2	0	3	128	18,285	2	0	3	133	18,642	2	0	3	136
				T2M	16,253	3	0	4	119	16,939	3	0	4	124	17,269	3	0	4	126
				T3M	16,442	2	0	4	120	17,135	3	0	4	125	17,469	3	0	4	128
				T3LG	14,687	2	0	2	107	15,306	2	0	2	112	15,605	2	0	2	114
				T4M	16,687	2	0	4	122	17,391	3	0	5	127	17,730	3	0	5	129
				T4LG	15,177	2	0	2	111	15,817	2	0	2	115	16,125	2	0	2	118
				TFTM	16,802	2	0	4	123	17,511	2	0	4	128	17,852	2	0	5	130
				T5M	17,168	4	0	2	125	17,893	5	0	3	131	18,241	5	0	3	133
				TSW	17,447	5	0	3	127	18,183	5	0	3	133	18,537	5	0	3	135
				T5LG	17,218	4	0	2	126	17,944	4	0	2	131	18,294	4	0	2	134
				BLC3	11,959	0	0	3	87	12,464	0	0	3	91	12,707	0	0	3	93
				BLC4	12,352	0	0	4	90	12,873	0	0	4	94	13,124	0	0	4	96
				RCCO	12,067	1	0	3	88	12,576	1	0	3	92	12,821	1	0	3	94
				LCCO	12,067	1	0	3	88	12,576	1	0	3	92	12,821	1	0	3	94
				AFR	17,545	2	0	3	128	18,285	2	0	3	133	18,642	2	0	3	136
P7	171W	40	1300	T1S	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129
				T2M	19,273	3	0	4	113	20,086	3	0	4	118	20,478	3	0	4	120
				T3M	19,497	3	0	5	114	20,319	3	0	5	119	20,715	3	0	5	121
				T3LG	17,416	2	0	2	102	18,151	2	0	2	106	18,504	2	0	2	108
				T4M	19,787	3	0	5	116	20,622	3	0	5	121	21,024	3	0	5	123
				T4LG	17,997	2	0	2	105	18,756	2	0	2	110	19,121	2	0	2	112
				TFTM	19,924	3	0	5	117	20,765	3	0	5	122	21,170	3	0	5	124
				T5M	20,359	5	0	3	119	21,217	5	0	3	124	21,631	5	0	3	127
				TSW	20,689	5	0	3	121	21,561	5	0	3	126	21,982	5	0	3	129
				T5LG	20,418	4	0	2	120	21,279	4	0	2	125	21,694	4	0	2	127
				BLC3	14,182	0	0	3	83	14,780	0	0	3	87	15,068	0	0	3	88
				BLC4	14,647	0	0	4	86	15,265	0	0	4	89	15,562	0	0	4	91
				RCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				LCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				AFR	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129

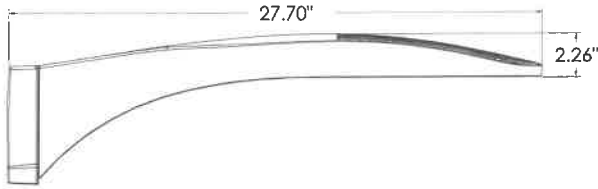
Performance Data

Lumen Output

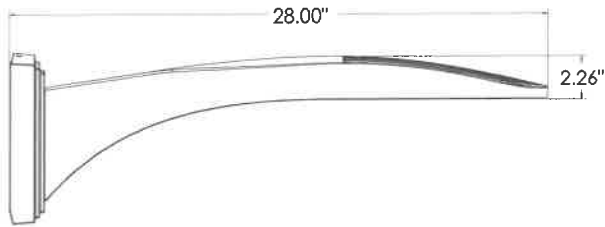
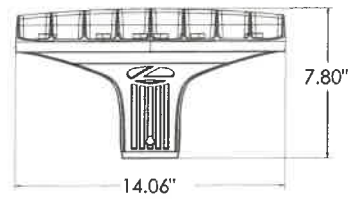
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Rotated Optics																							
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K								
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
P10	51W	30	530	T1S	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154				
				T2M	6,854	3	0	3	135	7,144	3	0	3	140	7,283	3	0	3	143				
				T3M	6,933	3	0	3	136	7,225	3	0	3	142	7,366	3	0	3	145				
				T3LG	6,194	2	0	2	122	6,455	2	0	2	127	6,581	2	0	2	129				
				T4M	7,036	3	0	3	138	7,333	3	0	3	144	7,476	3	0	3	147				
				T4LG	6,399	2	0	2	126	6,669	2	0	2	131	6,799	2	0	2	134				
				TFTM	7,086	3	0	3	139	7,385	3	0	3	145	7,529	3	0	3	148				
				T5M	7,239	3	0	2	142	7,545	3	0	2	148	7,692	3	0	2	151				
				TSW	7,357	3	0	2	145	7,667	3	0	2	151	7,816	4	0	2	154				
				TSLG	7,260	3	0	1	143	7,567	3	0	1	149	7,714	3	0	1	152				
				BLC3	5,043	3	0	3	99	5,256	3	0	3	103	5,358	3	0	3	105				
				BLC4	5,208	3	0	3	102	5,428	3	0	3	107	5,534	3	0	3	109				
				RCCO	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106				
				LCCO	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106				
				AFR	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154				
				P11	68W	30	700	T1S	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
								T2M	8,669	3	0	3	127	9,034	3	0	3	133	9,211	3	0	3	135
T3M	8,768	3	0					3	129	9,138	3	0	3	134	9,316	3	0	3	137				
T3LG	7,833	3	0					3	115	8,164	3	0	3	120	8,323	3	0	3	122				
T4M	8,899	3	0					3	131	9,274	3	0	3	136	9,455	3	0	3	139				
T4LG	8,093	3	0					3	119	8,435	3	0	3	124	8,599	3	0	3	126				
TFTM	8,962	3	0					3	132	9,340	3	0	3	137	9,522	3	0	3	140				
T5M	9,156	4	0					2	135	9,542	4	0	2	140	9,728	4	0	2	143				
TSW	9,304	4	0					2	137	9,696	4	0	2	143	9,885	4	0	2	145				
TSLG	9,182	3	0					1	135	9,569	3	0	1	141	9,756	3	0	1	143				
BLC3	6,378	3	0					3	94	6,647	3	0	3	98	6,777	3	0	3	100				
BLC4	6,587	3	0					3	97	6,865	3	0	3	101	6,999	3	0	3	103				
RCCO	6,436	0	0					2	95	6,707	0	0	2	99	6,838	0	0	2	101				
LCCO	6,436	0	0					2	95	6,707	0	0	2	99	6,838	0	0	2	101				
AFR	9,358	3	0					3	138	9,753	3	0	3	143	9,943	3	0	3	146				
P12	103W	30	1050					T1S	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
								T2M	12,271	4	0	4	119	12,789	4	0	4	124	13,038	4	0	4	126
				T3M	12,412	4	0	4	120	12,935	4	0	4	125	13,187	4	0	4	128				
				T3LG	11,089	3	0	3	107	11,556	3	0	3	112	11,782	3	0	3	114				
				T4M	12,597	4	0	4	122	13,128	4	0	4	127	13,384	4	0	4	129				
				T4LG	11,457	3	0	3	111	11,940	3	0	3	116	12,173	3	0	3	118				
				TFTM	12,686	4	0	4	123	13,221	4	0	4	128	13,479	4	0	4	130				
				T5M	12,960	4	0	2	125	13,507	4	0	2	131	13,770	4	0	2	133				
				TSW	13,170	4	0	3	127	13,726	4	0	3	133	13,994	4	0	3	135				
				TSLG	12,998	3	0	2	126	13,546	3	0	2	131	13,810	3	0	2	134				
				BLC3	9,029	3	0	3	87	9,409	3	0	3	91	9,593	3	0	3	93				
				BLC4	9,324	4	0	4	90	9,718	4	0	4	94	9,907	4	0	4	96				
				RCCO	9,110	1	0	2	88	9,495	1	0	2	92	9,680	1	0	2	94				
				LCCO	9,110	1	0	2	88	9,494	1	0	2	92	9,680	1	0	2	94				
				AFR	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136				
				P13	129W	30	1300	T1S	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130
								T2M	14,547	4	0	4	113	15,161	4	0	4	118	15,457	4	0	4	120
T3M	14,714	4	0					4	114	15,335	4	0	4	119	15,634	4	0	4	121				
T3LG	13,145	3	0					3	102	13,700	3	0	3	106	13,967	3	0	3	108				
T4M	14,933	4	0					4	116	15,563	4	0	4	121	15,867	4	0	4	123				
T4LG	13,582	3	0					3	105	14,155	3	0	3	110	14,431	3	0	3	112				
TFTM	15,039	4	0					4	117	15,673	4	0	4	122	15,979	4	0	4	124				
T5M	15,364	4	0					2	119	16,013	4	0	2	124	16,325	4	0	2	127				
TSW	15,613	5	0					3	121	16,272	5	0	3	126	16,589	5	0	3	129				
TSLG	15,409	3	0					2	120	16,059	3	0	2	125	16,372	4	0	2	127				
BLC3	10,703	4	0					4	83	11,155	4	0	4	87	11,372	4	0	4	88				
BLC4	11,054	4	0					4	86	11,520	4	0	4	89	11,745	4	0	4	91				
RCCO	10,800	1	0					2	84	11,256	1	0	2	87	11,475	1	0	2	89				
LCCO	10,800	1	0					2	84	11,255	1	0	2	87	11,475	1	0	2	89				
AFR	15,704	3	0					3	122	16,366	3	0	3	127	16,685	4	0	4	130				

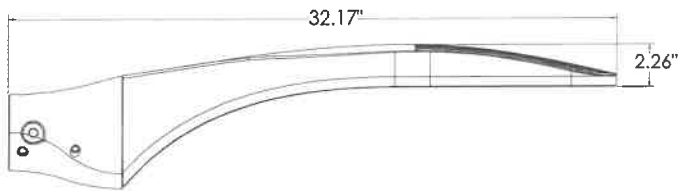
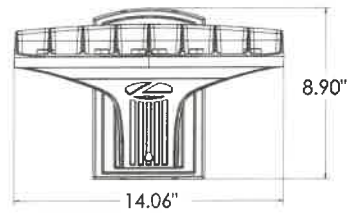
Dimensions



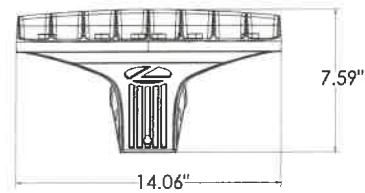
DSX0 with RPA, RPA5, SPA5, SPA8N mount
Weight: 25 lbs



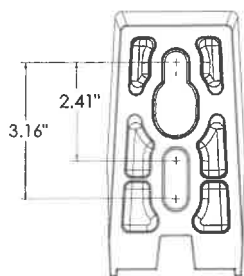
DSX0 with WBA mount
Weight: 27 lb



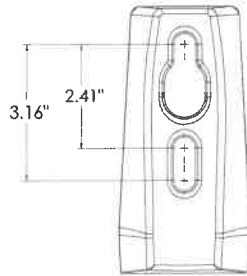
DSX0 with MA mount
Weight: 28 lbs



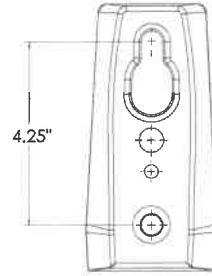
SPA (STANDARD ARM)



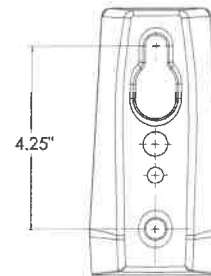
RPA



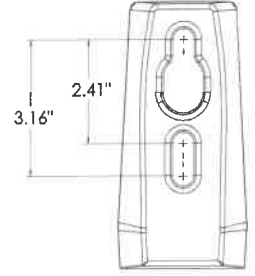
SPA5



RPA5

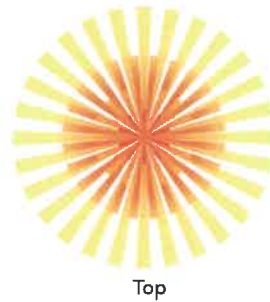


SPA8N



nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern NLTAIR2 PIRHN

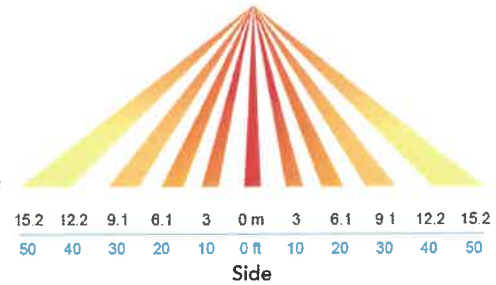


0 ft 0 m

20 6.1

30 9.1

40 12.2



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G. Low EPA (0.44 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

COASTAL CONSTRUCTION (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L80/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. DSX Size 0, comes standard with 0-10V dimming driver. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. PIR integrated motion sensor with on-board photocell feature field-adjustable programming and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

INSTALLATION

Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

BUY AMERICAN ACT

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



COMMERCIAL OUTDOOR

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DSX0-LED
Rev. 03/19/24
Page 9 of 9

ADVANTAGE ONE SOURCE

SPSV Color Fencing System



SPSV



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 Extended Lengths in 2-1/2", 3" and 4"



Extruded Vinyl Chain Link Fabric

Vinyl chain link fabric from Stephens Pipe & Steel matches your security and enclosure requirements with the appeal that allows the finished fence to blend in or nearly disappear depending on the colors of vinyl chosen. The jacket, of extruded vinyl chain link fabric from Stephens Pipe & Steel, encompasses the steel core making the product suitable for most residential or light commercial applications.

Meets the tenets of ASTM F668, RR-F-191, AASHTO M 81

Vinyl Class 2A Extruded & Bonded Vinyl Chain Link Fabric

Greater life and protection from the environment is afforded for Class 2A by creating an adhesive bond between the vinyl coating and the core wire. This product offers excellent life for residential and commercial installations. Available in meshes from 3/8" to 2 3/8" and in heights up to 20'.

Meets the tenets of ASTM F668, RR-F-191, AASHTO M 81

Vinyl Class 2B Fused and Bonded Chain Link Fabric

Stephens Pipe & Steel offers this product as its premium vinyl solution. The vinyl coating is thermally fused to the galvanized steel core making it ideal for the most difficult of environmental conditions. Available in meshes from 3/8" to 2 3/8" and in heights up to 20'.

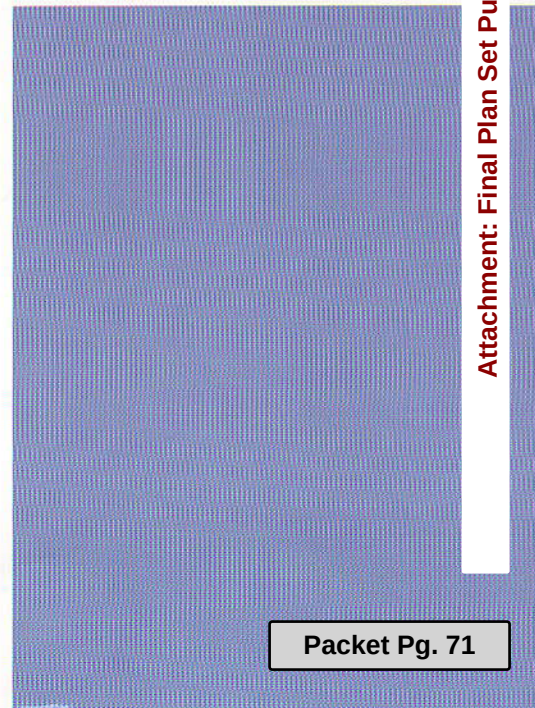
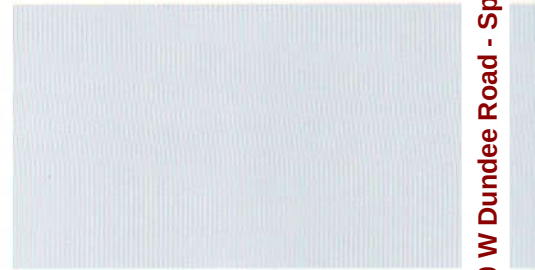
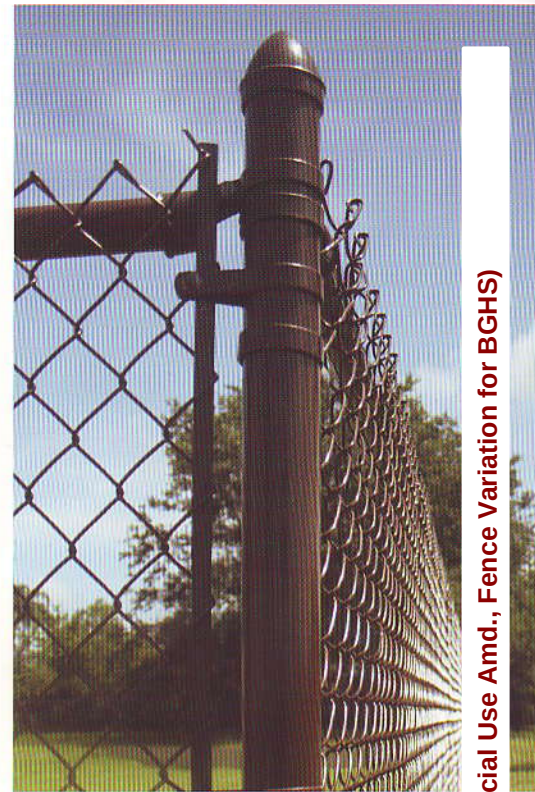
Meets the tenets of ASTM F668, RR-F-191, AASHTO M 81

SPSV Framework and Accessories

After thorough cleaning, the SPSV framework materials are primed and then PVC coated to meet the most rigid government and ASTM specifications. Our industrial-grade vinyl framework is available in Schedule 40, SS 40 and 20 type products and structural weight pipe. A wide variety of O.D.s and gauges can be coated to meet your needs. All of our hardware items are primed and then coated in accordance with ASTM 626. Available in Ensor Green, Woodland Green, Brown and Black. Other non-stock colors are available.

Framework meets the tenets of ASTM F1043

Fittings meet the tenets of ASTM F 626



COLOR CHART

Woodland Green



Ensor Green



Black



Brown



(Actual color may vary from samples above.)



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Offer your customers the safety and security of chain link with the aesthetics of vinyl. Mesh sizes as small as 3/8" in Extruded, Extruded & Bonded (Class A) and Fused & Bonded (Class B).

Ideal for installations including:

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SPSV Color Fencing System is available through any of our offices nationwide.





Poly(Vinyl Chloride) (PVC)- Coated Steel Chain Link Fence Fabric

Class 2b - Fused and Adhered
ASTM F668, Federal Specification RR-F-191 Type IV, AASHTO M-181 Type IV

PRODUCT NAME

SPSV Fused and Bonded Poly (Vinyl Chloride)- PVC Coated Steel Chain Link Fence Fabric

MANUFACTURER

Stephens Pipe and Steel, LLC Manufacturing Locations:

Stephens Pipe and Steel, LLC
1413 Steve Warriner Drive
Russell Springs, Kentucky 42642

Stephens Pipe and Steel, LLC
4301 46th Street
Bladensburg, Maryland 20710

Stephens Pipe and Steel
2891 State Hwy 160
Warrior, Alabama 35180

PRODUCT DESCRIPTION

Basic Use:

Fused and adhered fabric is a bonded vinyl, high strength galvanized steel, chain link fence fabric for industrial, commercial and institutional application. Fused and adhered fabric is the highest quality available and is used in numerous federal, state, civil, and military specifications.

Composition and Materials:

The galvanized steel core wire for producing fused and adhered PVC coated steel chain link fence fabric is produced by cold-drawing good commercial grade steel rod into wire of the appropriate diameter. The steel rod from which the wire is drawn is produced by the open hearth, electric furnace or basic oxygen process. The galvanized coating is produced by passing the cleaned wire through a bath of molten zinc which conforms to ASTM B6.

The fused and adhered PVC coating is produced by first applying a thermoset bonding agent to the galvanized core wire to which the PVC is bonded. A coating of PVC up to 0.010 in. (0.25 mm) is then fused and bonded to the wire.

Standards:

ASTMB 6 Slab Zinc
ASTM F567 Installation of Chain Link Fence
ASTM F668 Poly(Vinyl Chloride) (PVC) and Other Organic Polymer-Coated Steel Chain Link Fence Fabric,
Class 2b
Federal Specification RR-F-191 K1 D
Fencing, Wire and Post Metal
(Chain-Link Fence Fabric), Type IV
American Association of State Highway Transportation Officials (AASHTO)
M-181 Chain Link Fence, Type IV,
Class A

TECHNICAL DATA

General:

The manufacturer, if requested, will supply samples and certification that all materials furnished fully comply with the appropriate specifications.

Chain Link Fence Fabric:

The base metal of the chain link fence fabric is composed of commercial quality, medium-carbon galvanized (zinc coated) steel wire. The vinyl coating is thermally bonded to a thermoset bonding layer over a galvanized steel wire. This process ensures a tightly bonded coating free of voids, as well as a smooth surface appearance. Vinyl coating thickness, galvanized coating weight, and wire tensile strength conform to Federal Specification RR-F-191, ASTM F668, Class 2a, and AASHTO M-181 Type IV, Class A, as shown in Table 1. The wire is PVC coated before weaving and is free and flexible at all joints. Unless otherwise specified, fabric woven in 2 in. (50 mm) mesh, under 72" (1,830 mm) in height, is knuckled at both selvages; fabric 72" (1,830mm) high and over is knuckled at one selvage and twisted at the other. All fabrics woven into meshes under 2 in. (50 mm) have both selvages knuckled.

Wire Coating:

Only plasticized poly(vinyl chloride) (PVC) with a low temperature (-20 °C; -4°F) plasticizer and no extenders or extraneous matter other than the necessary stabilizers and pigments, is used. The PVC coating resists attack from prolonged exposure to dilute solutions of most common mineral acids, seawater, and dilute solutions of most salts and alkali.

ASTM Color System:

Standard colors conform to ASTM F934 and include:

Ensor	Green	Brown	Black
28.61	27.76	22.30	
-12.59	3.37	-0.09	
1.95	4.28	-0.85	

Other colors are available by special order.

Coating Adhesion: The PVC coated wire shall pass the test for adhesion contained in ASTM F668 for Class 2b chain link fabric.

INSTALLATION

Install fence in accordance with ASTM Practice 567. Handle all PVC coated material with care. If PVC coating is damaged during installation, contractor must replace or repair the material at own expense.

AVAILABILITY AND COST

Availability: PVC-coated steel chain link fence fabric is available for shipment throughout the United States and worldwide.

Cost: Material costs may vary depending on specific requirements. Costs may be obtained through all Stephens Pipe Service Centers.

WARRANTY

Fused and adhered PVC coated steel chain link fence fabric is warranted for 15 years against failure due to rust or corrosion.

MAINTENANCE

Periodic inspection is recommended but no routine maintenance is required.

TECHNICAL SERVICES

Technical services are available. Call your sales representative for assistance.

625 Forest Edge Drive, Vernon Hills, IL 60061
TEL 847.478.9700 ■ FAX 847.478.9701
www.gha-engineers.com

Memorandum

To: Aneta Mistak, District 214
Jeff Daurer, District 214
Andrew Phelps, STR Partners, LLC

From: David Westergreen, GHA

Copy: Don Matthews, GHA

Date: February 20th, 2024

Subject: Parking Analysis
Buffalo Grove High School
1000 W Dundee Road
Buffalo Grove, Illinois 60089

Part I. Introduction and Project Context

Gewalt Hamilton Associates, Inc. (GHA) has conducted a Parking Analysis for the existing Buffalo Grove High School campus. The school is located at 1000 W Dundee Road, at the northeast corner of Arlington Heights Road and W Dundee Road, in Buffalo Grove, IL. The student body of Buffalo Grove High School is reported at 1,957 students enrolled for the 2023-2024 school year. The staff count for Buffalo Grove High School is 251 teachers and faculty.

The school is served by a total of 655 parking spaces including 10 accessible spaces, 6 electric vehicle spaces, and 7 small bus and van spaces. The spaces are divided into four parking lots: the west administration lot, the main north lot, the main south lot, and the remote lot. There are three (3) full driveway accesses to the school. One access is a signalized intersection with W Dundee Road, and two are full unsignalized accesses along the east side of Arlington Heights Road. One of the access drives is exclusively for the administration lot and the other access is for the drop-off lane and access to the main and remote parking lots. Student parking is only available in the main parking lots and the remote lot.

The following provides a summary of existing conditions and the Parking Analysis conducted. *Exhibits* and *Appendices* referenced are located at the end of this document.

Part II. Background Information

Site Location Map and Roadway Inventory

Exhibit 1 provides a site location map as well as a map of the existing parking lots.

Roadway Network

Arlington Heights Road is a north-south, minor arterial roadway providing a five-lane cross-section (2 travel lanes in each direction with a paved median providing turn lanes) with a posted speed limit of 35 mph in the site vicinity. There is a signalized intersection southwest of the property at Arlington Heights Road and W Dundee Road. Arlington Heights Road is under the jurisdiction of Cook County in the vicinity of the site.

Buffalo Grove High School
1100 W Dundee Road
Buffalo Grove, Illinois

W Dundee Road (IL Route 68) is an east-west, other principal arterial roadway providing a 4-lane cross-section (two travel lanes in each direction) with a posted speed limit of 35 mph in the site vicinity. There is a signalized intersection southwest of the property at Arlington Heights Road and W Dundee Road. Arlington Heights Road is under the jurisdiction of Cook County in the vicinity of the site. W Dundee Road widens on approach to this signalized intersection to provide dual left-turn lanes in each direction onto Arlington Heights Road. W Dundee Road is under the jurisdiction of the Illinois Department of Transportation.

Pedestrian Facilities

Sidewalks are provided along both the west and south sides of the site adjacent to the roadways. Zebra-style striped crosswalks are maintained across all three of the site drives, and Continental-style striped crosswalks are maintained across W Dundee Road and Arlington Heights Road at the two signalized intersections in the site vicinity.

Part III. Parking Evaluation

Parking Requirements

Based on the parking requirements outlined in the Village of Buffalo Grove Municipal Code, 1 parking spot is required for every faculty member, as well as 1 parking spot is required for every 6 students for high schools. This total number of parking spaces required for Buffalo Grove High School with 2023-2024 enrollment is 578 spaces. The excerpt of the Village Code can be found in **Appendix A**.

Parking Supply and Occupancy Survey – Buffalo Grove High School

A parking supply and occupancy survey of the parking serving Buffalo Grove High School was conducted on Tuesday, February 12th, 2024, from 7:00 AM to 9:00 AM and 2:00 PM to 4:00 PM. The results of the parking survey are summarized on the exhibit contained in **Appendix B**. See **Exhibit 1** for a map of parking spaces.

The findings of the survey are summarized below:

- A total of 655 parking spaces were surveyed: 20 spaces to the west of the building (areas A to B on the map), 229 parking spaces in the north main parking lot (areas C to I on the map), 206 parking spaces in the south main parking lot (areas J to P on the Map), and 179 parking spaces in the remote lot (areas Q to U on the map), and the 23 spaces for bus, ADA, and electric vehicles.
- Approximately 80 percent (525 of 655) of the total parking spaces surveyed were occupied at the building's observed peak occupancy, which occurred between 8:00 and 9:00 AM.
- Our observations indicate that the occupancy of the parking lot slowly reduced during the day after the scheduled start of school at 8:00 AM, as students leave campus for various reasons before the school dismissal at 3:00 PM.
- Based on the maximum occupied parking spaces (525), and the total student count (1957) and faculty count of 251, the observed peak parking rate per student for the existing school is 1 parking space for every 7 students, which is less than the ratio required by the Village Municipal Code (1 space per 6 students). This measurement does assume that every member of the 251 faculty park on site daily.

GHA has been retained to design site updates to Buffalo Grove High School. For the latest proposed plan, see **Appendix C**. The updates include changing locations of the baseball and softball fields, changing location of the tennis courts, and removal of the remote lot in favor of a smaller new lot closer to the football stadium. With these changes, a parking total of 581 spaces is expected. With 578 parking spaces being required by 2023-2024 enrollment, Buffalo Grove High School still meets Village code parking requirements.

- A summary of the parking observations can be found in **Exhibit 2**.

Buffalo Grove High School
1100 W Dundee Road
Buffalo Grove, Illinois

- As a guideline, parking demand should not exceed 90% of the supply. This allows more efficient parking as motorists can more readily find open spaces. With 2023-2024 enrollment, the observed parking demand was 90% of the capacity of the future parking supply.

Part IV. Recommendations and Conclusions

A Parking Analysis was performed for Buffalo Grove High School. In summary, the existing parking spaces are sufficient to meet the observed parking demand as well as Village code.

Even after the site updates, which will reduce parking from 655 spaces in the existing condition to 581 spaces in the future condition, Village code is met based on the 2023-2024 school enrollment.

Should school enrollment increase or new hires to faculty be made, new parking spaces may need to be added to meet the Village Code. For non-school hours special events, such as heavily attended football games or other school functions, we recommend that off-site parking be made available. We understand that the school has an agreement with nearby Henry Wadsworth Longfellow School to utilize that school's parking if needed.

Part V. Technical Addendum

The following *Exhibits* and *Appendices* were previously referenced. They provide technical support for our observations, findings and recommendations discussed in the text.

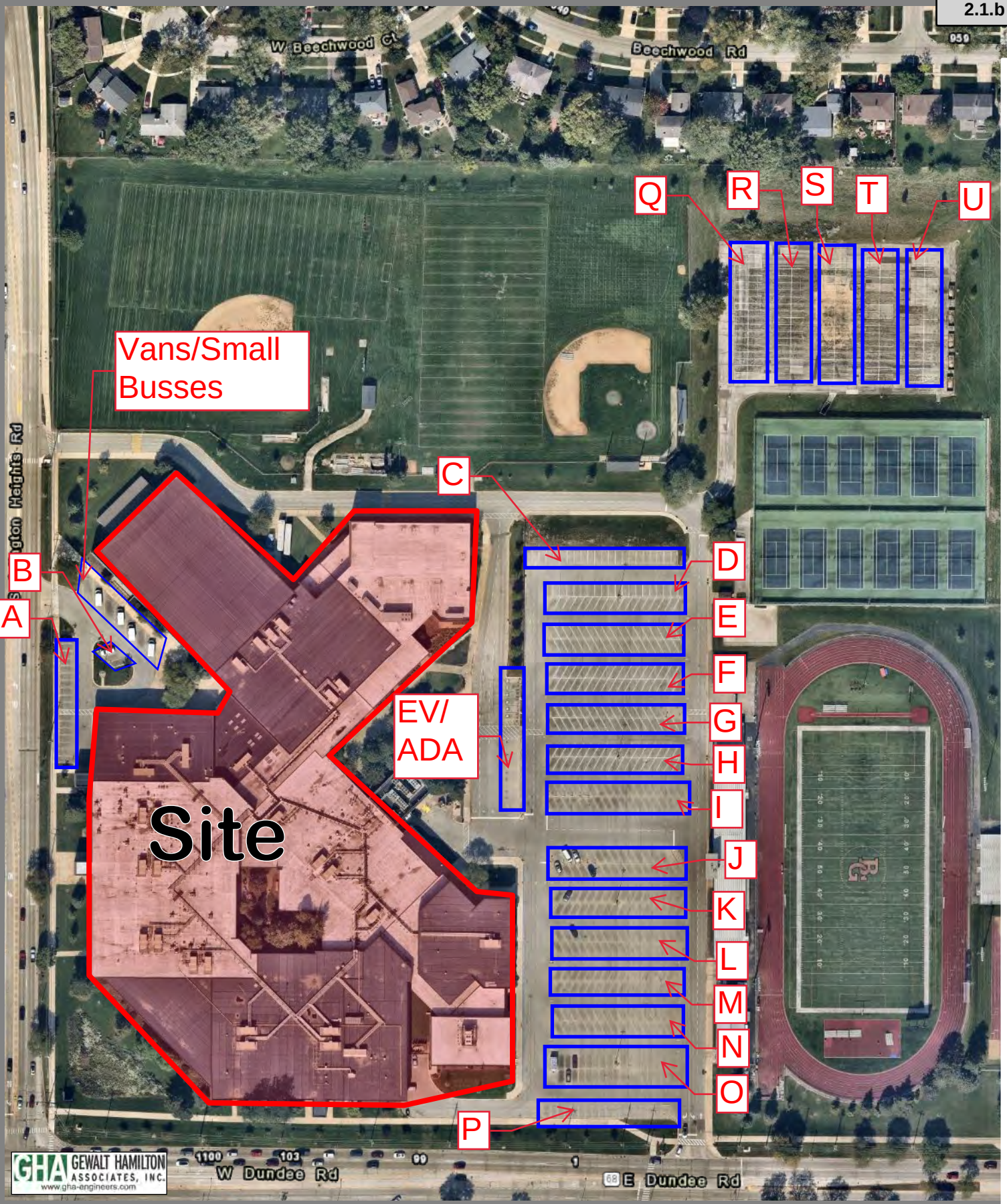
Exhibits

1. Location Map
2. Parking Calculations

Appendices

- A. Village of Buffalo Grove Municipal Code Excerpts
- B. Buffalo Grove High School – Parking Occupancy Survey
- C. Proposed Future Plan

5651.145 Buffalo Grove High School Parking Study.docx



Attachment: Final Plan Set Public Hearing (1100 W Dundee Road - Special Use Amd., Fence Variation for BGHS)



1 inch = 225 Feet

Exhibit 1 - Location Map

Buffalo Grove High School
Buffalo Grove, Illinois

Exhibit 2
Weekday Peak Parking Calculations
Buffalo Grove High School

1. Current Demand

		7:00 - 8:00	8:00 - 9:00	2:00 - 3:00	3:00 - 4:00
		AM	AM	PM	PM
A. Weekday Parking	Total =	655	118	525	470
	% Occupied	18%	80%	72%	27%

2. Subtracted Parking Spaces

76
Spaces Lost

3. Future Demands

		8:00 AM	9:00 AM	2:00 PM	3:00 PM
A. Weekday Parking	Total =	581	118	525	470
	% Occupied	20%	90%	81%	31%

Parking Occupancy Key

≤ 60% occupied	
≤85% but >60% occupied	
>85% occupied	

17.36.040 - Schedule of parking requirements.

- A. Schedule of Requirements. Requirements governing the number of off-street parking and off-street loading facilities in relation to the use of property are established hereinafter in sections of this Title, The parking and loading requirements for any use not specified herein shall be the same as for a similar specified use as determined by Sections 17.36.040 and 17.36.050.
- B. Floor Area. The term "floor area" as employed herein in the case of office, merchandising or service types of use shall mean the gross floor space of a building or structure.
- C. Residential Uses.
 - 1. Dwelling, detached: 2.0 spaces per dwelling unit.
 - 2. Dwelling, semi-detached and attached: 2.0 spaces per dwelling unit.
 - 3. Dwelling, two-family and multiple-family: 1.7 spaces per dwelling unit.
 - 4. Apartment for senior citizens (fifty-five years of age and older): 1.0 space per dwelling unit plus 1.0 space per employee.
 - 5. Dormitory: 5.0 spaces per one thousand square feet of floor area.
 - 6. Convent, rectory: 2.0 spaces per one thousand square feet of floor area.
 - 7. Convalescent home, nursing home: 1.0 parking space for every four beds, plus one for each vehicle used in the conduct of the enterprise.
- D. Manufacture and Industrial Uses. 2.0 spaces per every three employees.
- E. Transportation, Communication and Utilities.
 - 1. Airport, bus terminal, heliport, railroad passenger terminal: spaces as required after review by the Planning and Zoning Commission plus additional parking for retail service uses.
 - 2. Air freight terminal, newspaper distribution facility, railroad freight terminal: 2.0 spaces per every three employees.
 - 3. Microwave relay towers, radar installations and towers, radio and television stations and towers, parking garage, parking lot: 1.0 space per employee.
 - 4. Telegraph office, telephone operator and business office: 4.0 spaces per one thousand square feet of floor area.
 - 5. Public and private utilities installation: 2.0 spaces per every three employees.
 - 6. Auto graveyards, dumps, junk yards, sanitary landfill: 2.0 spaces per each employee.
 - 7. Cartage and express facilities, motor freight terminal: 2.0 spaces per each three employees.
- F. Retail and Wholesale Trade.
 - 1. General commercial/retail (individual businesses): 1.0 space per two hundred fifty square feet of floor area.
 - 2.

Shopping Centers: 1.0 space per two hundred twenty square feet of floor area. In a case where a major tenant is of a nature that would require a significant deviation from this standard, the parking requirement for that individual use shall be used.

3. Eating and drinking establishments: 1.0 space per one hundred square feet of floor area. Establishments with a drive-thru window shall provide a minimum of ten stacking spaces per window.
4. Household appliance stores, furniture stores, motor vehicle sales: 2.0 spaces per one thousand square feet of floor area.

G. Services and Institutions.

1. Business and professional offices: 1.0 space per every three hundred square feet of floor area.
2. Bank, savings and loans, and financial institutions: 1.0 space per every two hundred fifty square feet of floor area.

Drive-in establishments shall provide six stacking spaces per teller or customer service area.

3. Auto laundry: 1.0 space per employee.
4. Hotel, motel: 1.0 space per each dwelling unit plus one space per each employee plus additional parking spaces for the retail/service/entertainment areas.
5. Animal kennel and hospitals: 4.0 spaces per every one thousand square feet of floor area.
6. Health or medical institutions or sanitarium: 1.5 spaces per every one thousand square feet of floor area.
7. Dental and medical clinic or office: 5.0 spaces per every one thousand square feet of floor area.
8. Funeral parlor: 4.0 spaces per one thousand square feet of floor area.
9. Day care center, child care center, nursery school, pre-school: 2.0 spaces per every one thousand square feet of floor area.
10. Boarding school, elementary school, junior high school: 1.0 space per employee.
11. Senior high school: 1.0 space per employee plus 1.0 space per every six students based on rated design capacity.
12. College, junior college, university: 1.0 space per every two employees plus 1.0 space per each four students based on rated design capacity.
13. Business school, commercial school, trade school, vocational school: 1.0 space per employee plus 1.0 space per student based on rated design capacity.
14. Dance school, music school, vocal school: 1.0 space per employee plus 1.0 space per every three students based on rated design capacity.

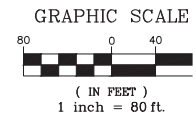
15. Governmental services: 4.0 spaces per one thousand square feet of floor area.
16. Chapel, church, synagogue, temple: 1.0 space per three seats based on rated design capacity.
17. Philanthropic and charitable institutions, religious retreat: 1.0 space per one thousand square feet of floor area.

H. Cultural Uses, Entertainment and Sports.

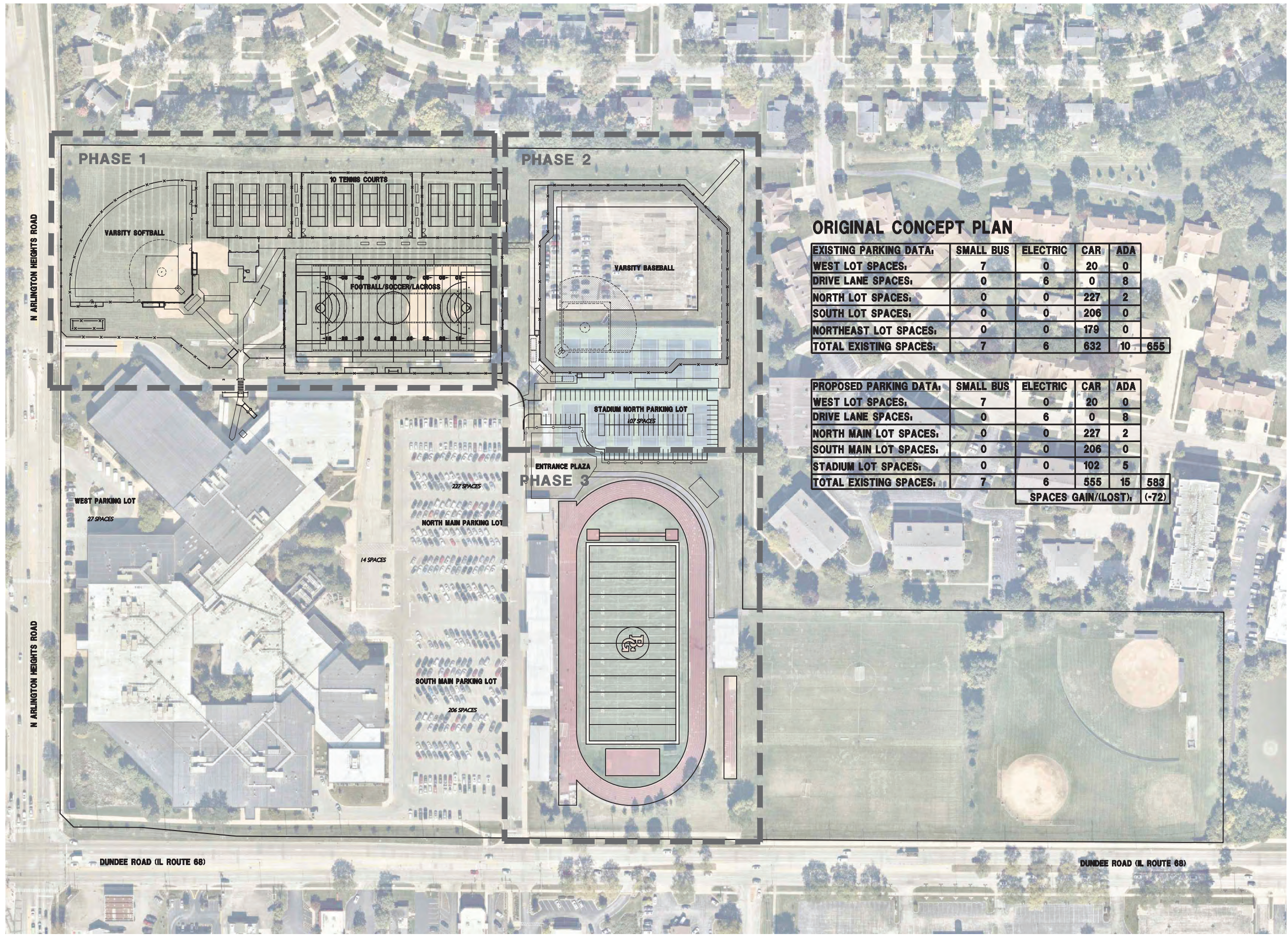
1. Art gallery, historic site, library, museum: 2.0 spaces per one thousand square feet of floor area.
2. Community center, convention hall, exhibition hall, meeting hall, recreation building: 1.0 space per one thousand square feet of floor area.
3. Amphitheater, auditorium fairgrounds, fieldhouse: 1.0 space per four seats.
4. Theater: 1.0 space per 2.5 seats.
5. Amusement park, miniature golf, kiddie park: 3.0 spaces per one thousand square feet of floor area plus 3.0 spaces per one thousand square feet of land area.
6. Billiard hall, bowling alley, pool hall, skating rink: 10.0 spaces per one thousand square feet of floor area.
7. Golf course, full size: 60.0 spaces per nine holes (regular golf).
8. Camping grounds, outdoor rifle, trap, skeet shooting range: 1.0 space per two thousand square feet of land area.
9. Athletic field, public parks and playgrounds, tennis courts club: 1.0 space per five thousand square feet of land area.
10. Public swimming pool: 1.0 space per five thousand square feet of land area plus 1.0 space per seventy-five square feet of water area.

(Ord. No. 2014-43, § 29, 6-16-2014)

Appendix B						
Buffalo Grove High School						
Location	Supply	Tuesday, February 13th 2024				
Parking Bay	Parking Bay Total	7:00 - 8:00 AM	8:00 - 9:00 AM	Midday Gap	2:00 - 3:00 PM	3:00 - 4:00 PM
A	17	12	14	-	12	8
B	3	3	3	-	3	2
C	22	1	22	-	21	10
D	37	2	37	-	33	16
E	34	2	34	-	28	15
F	34	14	34	-	28	11
G	34	14	34	-	29	10
H	34	15	34	-	34	10
I	34	6	34	-	32	15
J	30	9	27	-	29	11
K	32	8	30	-	26	8
L	31	5	26	-	25	5
M	30	4	25	-	23	9
N	30	5	29	-	29	5
O	32	6	31	-	24	10
P	19	5	16	-	12	7
Q	36	0	36	-	28	7
R	36	0	34	-	23	8
S	36	0	14	-	10	3
T	36	0	1	-	11	1
U	35	0	0	-	0	0
Van/Electric/ADA	23	7	10	-	10	7
Occupied Total:	655	118	525	-	470	178



Attachment: Final Plan Set Public Hearing (1100 W Dundee Road - Special Use Amd., Fence Variation for BGHS)



ORIGINAL CONCEPT PLAN

EXISTING PARKING DATA:	SMALL BUS	ELECTRIC	CAR	ADA	
WEST LOT SPACES:	7	0	20	0	
DRIVE LANE SPACES:	0	6	0	8	
NORTH LOT SPACES:	0	0	227	2	
SOUTH LOT SPACES:	0	0	206	0	
NORTHEAST LOT SPACES:	0	0	179	0	
TOTAL EXISTING SPACES:	7	6	632	10	655

PROPOSED PARKING DATA:	SMALL BUS	ELECTRIC	CAR	ADA	
WEST LOT SPACES:	7	0	20	0	
DRIVE LANE SPACES:	0	6	0	8	
NORTH MAIN LOT SPACES:	0	0	227	2	
SOUTH MAIN LOT SPACES:	0	0	206	0	
STADIUM LOT SPACES:	0	0	102	5	
TOTAL EXISTING SPACES:	7	6	555	15	583
SPACES GAIN/(LOST):					(-72)

Buffalo Grove High School Athletic Fields Noise Study

April 10, 2024

Prepared for:

STR Partners LLC - 350 West Ontario Street, Suite 200 Chicago, IL 60654

Thunder Hearing & Sound was asked to study the noise changes from relocating athletic fields/courts at Buffalo Grove High School in School District 214. Phase 1 of the plan includes a varsity softball field, 10 tennis courts, and a multi-use field (football/soccer/lacrosse). Phase 2 includes a varsity baseball field and a parking lot which will be graded to about the same elevation as the other fields. These fields/courts will have games and practices throughout the week, generally in the afternoon and early evening. There will be several lights included, but games/practices are expected to end by 7:30 pm (note there are also several security lights, but those are not considered to have a noise impact). Even though Buffalo Grove HS has operated similar activities in this area for years, we were asked to evaluate possible noise impacts on nearby residents compared to typical community noise for the area.

Ambient Noise Assessment

The impact of a noise source depends mostly on its audibility. To assess the degree of audibility, the existing ambient noise must be evaluated. We conducted this work by visiting the site on Thursday, March 7, 2024. During this visit, we inspected the topography of the site, examined the surrounding area, characterized the ambient noise, identified its sources, and set up professional-grade equipment to record the noise. The equipment was set up on the north side of the property, next to the backyard of 1039 Beechwood Rd, as shown in **FIGURE 1**.



Figure 1 - View of the digital audio equipment

The recording ran for about 1½ hours and was later analyzed to determine the sound levels at 1-second intervals. The result of this analysis can be seen in **FIGURE 2** (note there are larger

charts attached to the end of this report). In this graph, you can see a few of the noise sources called out. Included in these sources is the typical existing noise from baseball practice. The metric to measure noise is a logarithmic time-averaged value called the equivalent level or Leq. To better visualize the trend of the ambient noise, we computed the 1-minute Leq which varies between 48-61 dB(A). **The Leq of the entire sample was 52 dB(A).** The dominant noise at this site was from traffic on Dundee Road and airplanes overhead. Therefore, we can use hourly traffic counts on Dundee Road to estimate the ambient sound level at other times of the day. Using this information, we estimate that the ambient noise varies from **53 dBA in the 3:00 PM hour to 52 dBA in the 7:00 PM hour.**

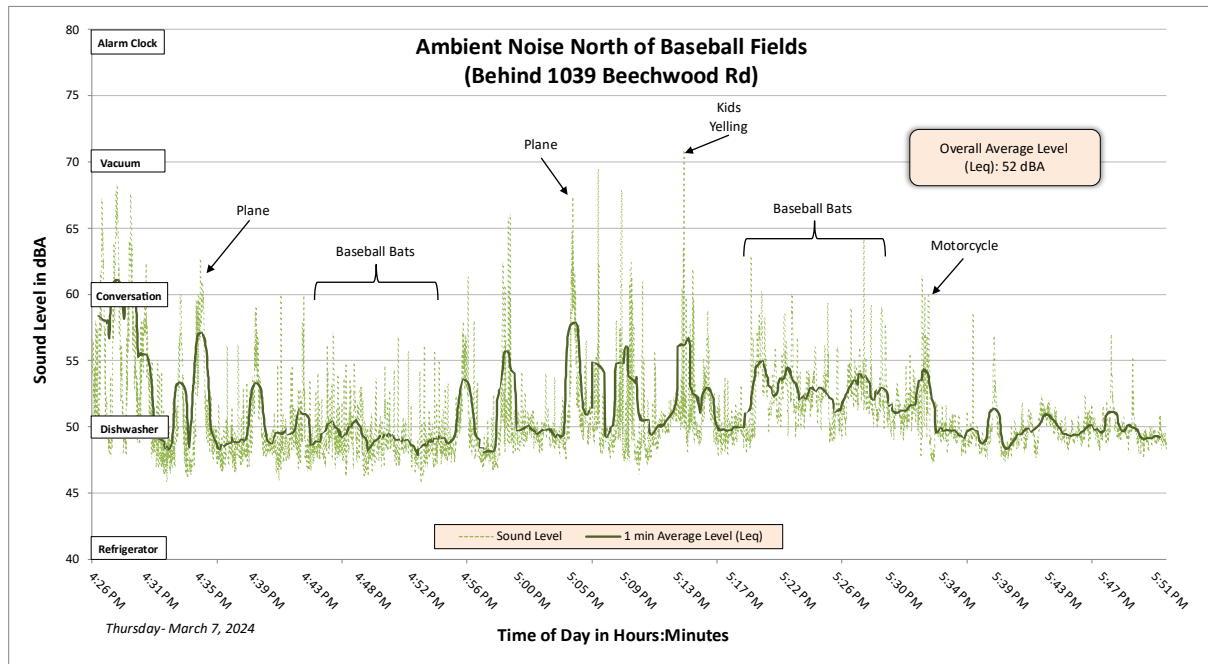


Figure 2 – Sound level trace of ambient noise at the site in the 4:00 and 5:00 PM hours

Source Sounds

Impact also depends on the sound levels from future sources. Therefore, we conducted source measurements of various sound sources to be able to calculate the future sound levels. We set up a second microphone near the existing tennis courts while a practice was conducted to record the sound. We then post-processed the recording in our lab the same as the ambient recording. From this, we were able to determine that the sound power level of a pair of tennis players was **79 dBA (SWL)**.

Sound Power Level (SWL) is a measure of the total energy emitted from a sound source. It differs from the more commonly used sound pressure level because sound power is independent of distance. It is the preferred unit when modeling sound sources because it represents the overall acoustic energy output without being influenced by distance.

Note that this is likely an overestimate due to high background noise during the sampling period. We repeated this same process for noise from the baseball practice and determined the sound power level for an entire baseball practice (with batting) was **103 dBA (SWL)**. This is also likely an overestimate.

Sound Modeling

To predict the sound levels radiated from the new athletic fields/courts, we used an Internationally accepted software program called SoundPlan™. This program calculates the sound level at millions of distant points based on the source sound levels, the topography of the site, reflections from buildings, absorption by the atmosphere and vegetation, and shielding from berms and structures. Based on these calculations, the program then generates color sound-level contours surrounding the site. The program calculates the time-average levels based on the input parameters.

We modeled five sound sources:

- Tennis – Using the collected data, we modeled a worst-case scenario of all 10 tennis courts in use with a doubles game. Note, that only 6 were in use for the data collection.
- Softball – We used the collected baseball data to estimate the noise from softball.
- Baseball - We used the collected baseball data.
- PA Speakers – We used existing data from our software for JBL AW266 speakers. There were 3 speakers for the softball field, 4 for the multi-use field, and 3 for the baseball field. Because PA speakers are inherently adjustable, we set these to levels that achieved good signal-to-noise ratios as an example of reasonable and typical levels.
- Crowd Noise – We used existing data from our software and placed crowds on each bleacher section.

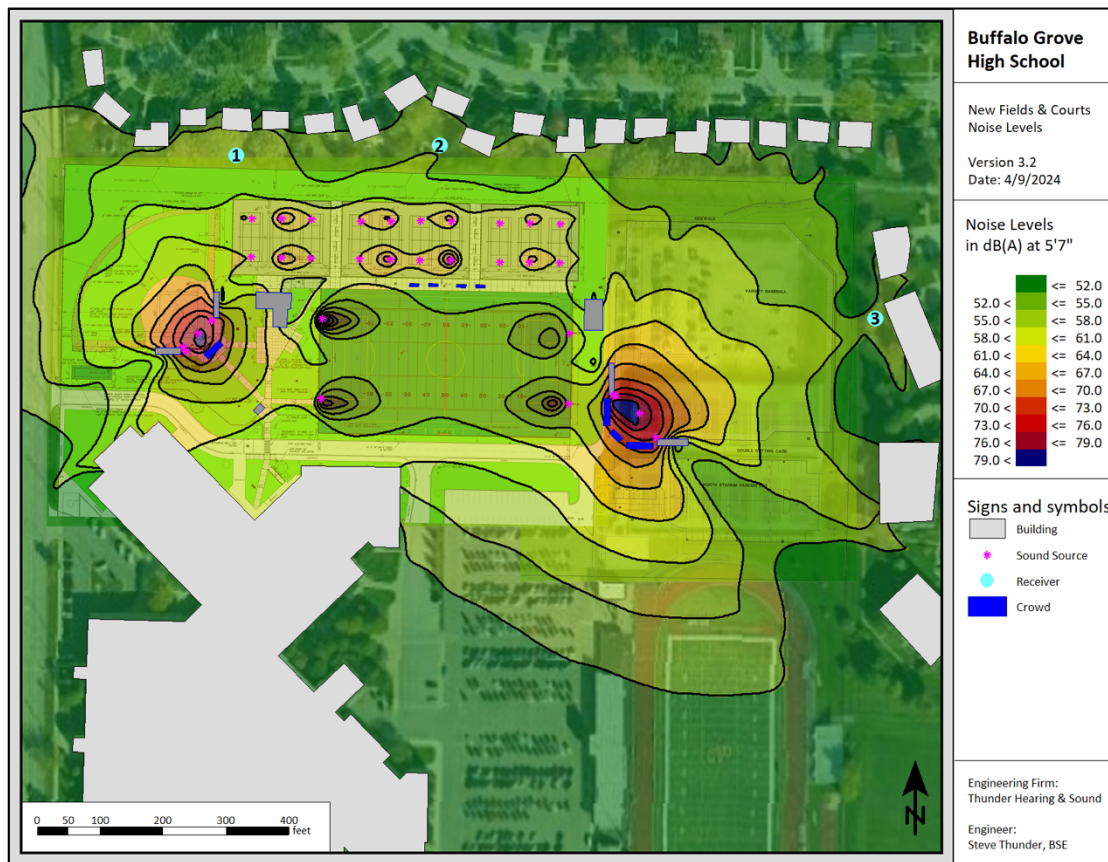


Figure 3 – Sound level contours around the proposed athletic fields/courts

FIGURE 3 shows the projected time-average contours with all practices fully active, PA speakers in use, and full crowds. For illustration, we set the green color on the legend to 52 dB(A), the ambient noise level from our measurements. The sound levels in three representative backyards were **57 dBA (blue dot 1)**, **55 dBA (blue dot 2)**, and **55 dBA (blue dot 3)**. When comparing this to the ambient noise of 53 to 52 dB(A) it is only a 2-5 dB difference which we rate as **no impact to a mild impact** (see **TABLE 1**). Keep in mind that many aspects of the details we modeled were worst-case; so real-world levels would be less; likely causing no impact to a slight impact.

This is not to say that all activity on the field/courts will be inaudible, but the long-term impact is assessed by using the time-averaging approach advocated by the US EPA and stipulated by the State of Illinois. In short, the LEQ is a dose effect in that it depends on the intensity of the sounds and the number of events in any one-hour period.

Table 1 – Perceptual Difference as a Function of the Decibel Increase

Decibel Increase	Perceptual Difference	Impact
1-2 dB	Negligible	None
3-4 dB	Just Noticeable	Slight
5-6 dB	Clearly Noticeable	Mild
7-8 dB	Strongly Noticeable	Moderate
9-10 dB	Doubling in Loudness	Substantial

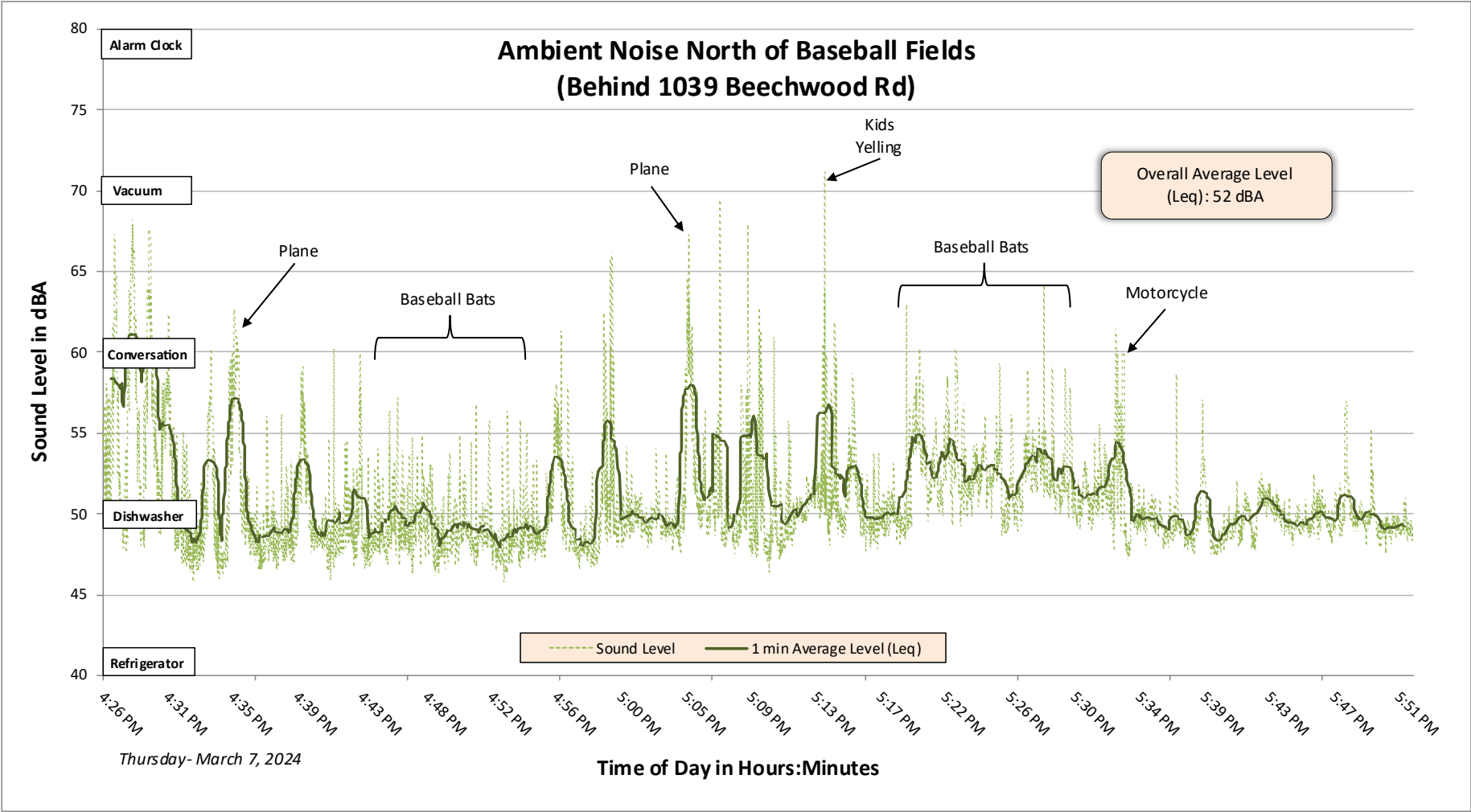
Conclusion

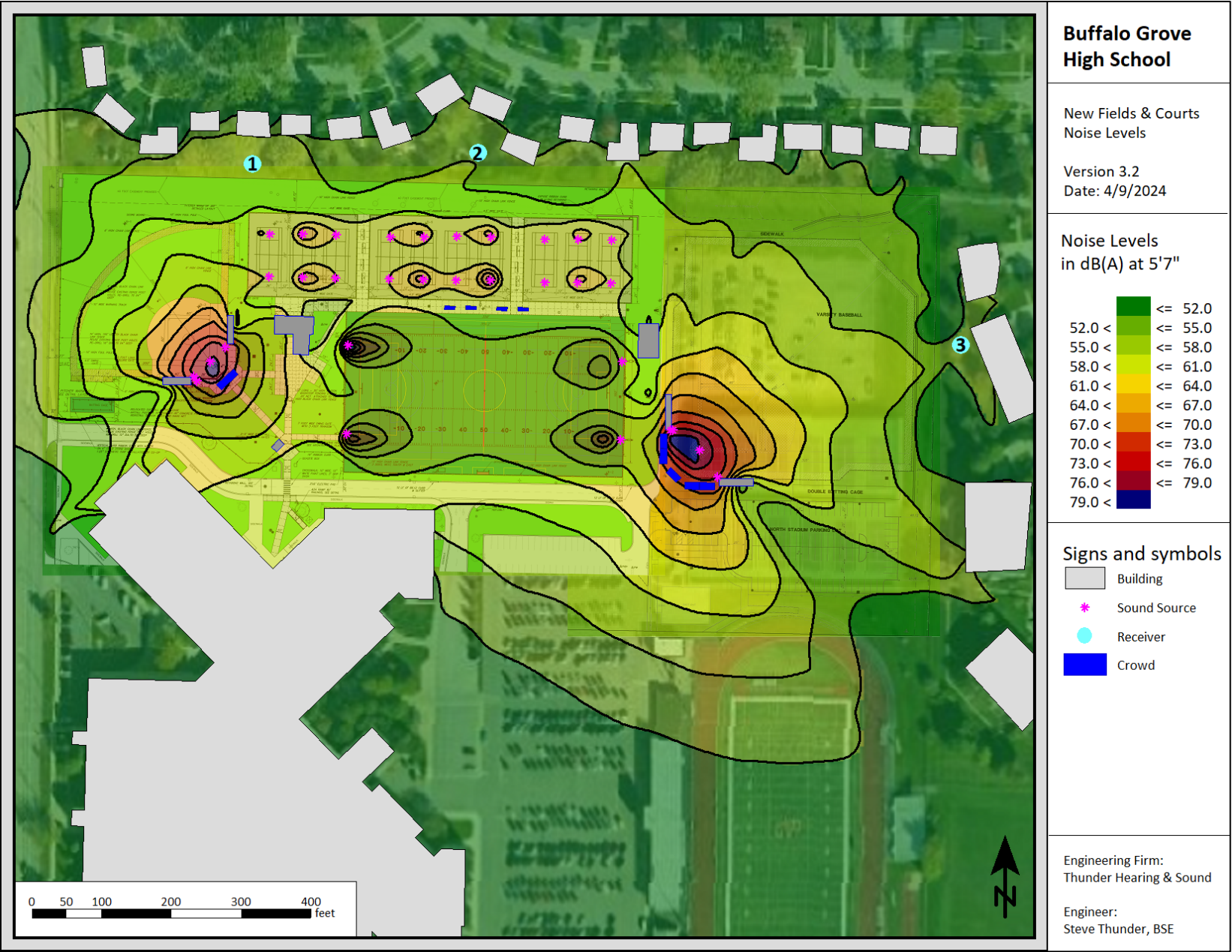
Thunder Hearing & Sound studied noise changes from relocating athletic fields at Buffalo Grove High School. Phases 1 & 2 include a softball field, a baseball field, 10 tennis courts, and a multi-use field. Activities will occur mainly in the afternoon and early evening up to about 7:30 pm. An ambient noise assessment found levels ranging from 48-61 dB(A), dominated by traffic and airplanes. Source measurements showed tennis players emit 79 dBA (SWL) and baseball practice 103 dBA (SWL). Sound modeling predicted a total source level of 2-5 dB greater than the ambient levels. Since our modeling is based on worse-case source data, we believe there will be a limited increase in noise levels, that would create no impact to a slight impact on nearby residents.

Submitted by:



Steve Thunder, BSE
Acoustical Engineer





VILLAGE OF BUFFALO GROVE



During your testimony at the Public Hearing, you need to testify and present your case for the Special Use being requested. In doing so, you need to address the six (6) Special Use Standards listed below:

SPECIAL USE STANDARDS

1. The special use will serve the public convenience at the location of the subject property; or the establishment, maintenance or operation of the special use will not be detrimental to or endanger the public health, safety, morals, comfort, or general welfare;
Response: The revised special use will continue to serve the public convenience as the community High School.
2. The location and size of the special use, the nature and intensity of the operation involved in or conducted in connection with said special use, the size of the subject property in relation to such special use, and the location of the site with respect to streets giving access to it shall be such that it will be in harmony with the appropriate, orderly development of the district in which it is located;
Response: The location and size of the revised special use remains the same and will not inflict greater burden on the streets giving access to the site and will remain in harmony with the development of the district in which it is located.
3. The special use will not be injurious to the use and enjoyment of other property in the immediate vicinity of the subject property for the purposes already permitted in such zoning district, nor substantially diminish and impair other property valuations with the neighborhood;
Response: The revised special use will continue to not be injurious to the use and enjoyment of the other property in the immediate vicinity of the subject property and the improvements may lead to increased property valuations within the neighborhood.
4. The nature, location and size of the buildings or structures involved with the establishment of the special use will not impede, substantially hinder or discourage the development and use of adjacent land and buildings in accord with the zoning district within which they lie;
Response: The nature, location and size of the buildings and structures involved in the revised special use are set well away from the property boundaries and will not hinder or discourage the development and use of adjacent land.
5. Adequate utilities, access roads, drainage, and/or other necessary facilities have been or will be provided;
Response: Adequate utilities, access roads, drainage and other facilities have been provided for the revised to the special use.
6. Parking areas shall be of adequate size for the particular special use, which areas shall be properly located and suitably screened from adjoining residential uses, and the entrance and exit driveways to and from these parking areas shall be designed so as to prevent traffic hazards, eliminate nuisance and minimize traffic congestion in the public streets.
Response: Adequate parking is provided for the revised special use per the Village Zoning requirements. Agreements with area Elementary Schools are in place when additional parking capacity is necessary.

We are requesting an update to the site plan that accompanies the existing Special Use Ordinance 2018-02

During your testimony at the Public Hearing, you need to testify and present your case for the variance being requested. During your testimony, you need to address the Variation Standards listed below:

Criteria for Fence Variation.

- A. The regulations of this Title shall not be varied unless findings of fact are made based upon evidence presented at the hearing that:

1. The plight of the owner is due to unique circumstances;

Response:

The Owner is a High School seeking to renovate and modernize their athletic facilities.

2. The proposed variation will not alter the essential character of the neighborhood;

Response:

The proposed fencing and safety netting will be an upgrade to the existing fencing on the site and is similar to those currently in use at Buffalo Grove Park District facilities.

3. There are practical difficulties or particular hardships in carrying out the strict letter of this chapter which difficulties or hardships have not been created by any person presently having an interest in the property;

Response:

The installation of fencing and safety netting of various heights at the proposed softball field, tennis courts, multi-sport field and baseball field is required by IHSA and other regulatory bodies to protect the users, spectators, and public.

4. The proposed variation will not be detrimental to the public health, safety and welfare;

Response:

The proposed variation is for the express purpose of protecting the public health, safety, and welfare.

ORDINANCE NO. 2018 - 002

**AN ORDINANCE APPROVING A SPECIAL USE AND VARIATION
IN THE R1 RESIDENTIAL DISTRICT
VILLAGE OF BUFFALO GROVE,
COOK AND LAKE COUNTIES, ILLINOIS**

**Buffalo Grove High School
1100 W Dundee Road
Special Use and Variation for a High School**

WHEREAS, the Village of Buffalo Grove is a Home Rule Unit by virtue of the Illinois Constitution of 1970; and,

WHEREAS, the property at 1100 W Dundee Road ("Property") legally described in EXHIBIT A attached hereto is zoned in the R1 Residential District; and,

WHEREAS, Township High School District 214 ("Petitioner"), has petitioned the Village for approval of a special use and variation to expand an existing elementary school at the Property; and,

WHEREAS, the Village Plan Commission conducted a public hearing on January 3, 2018 concerning the petition for the special use and variation; and,

WHEREAS, the Plan Commission determined that the petition meets the criteria of a special use and variation as set forth in the Buffalo Grove Zoning Ordinance; and,

WHEREAS, the Plan Commission voted 5 to 0 to recommend approval of the special use and variation; and,

WHEREAS, the President and Village Board of Trustees after due and careful consideration have concluded that the proposed expansion of the high school is a reasonable use of the Property and will serve the best interests of the Village.

WHEREAS, the proposed expansion of the Buffalo Grove High School shall be operated in accordance with and pursuant to the following exhibits:

- EXHIBIT A Legal Description
- EXHIBIT B Acceptance and Agreement concerning special uses
- EXHIBIT C Engineering Plans and Building Elevations

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF BUFFALO GROVE, COOK AND LAKE COUNTIES, ILLINOIS:

Section 1. This Ordinance is made pursuant to and in accordance with the Village's Zoning Ordinance and the Village's Home Rule powers. The preceding whereas clauses are hereby made a part of this Ordinance.

Section 2. The Corporate Authorities hereby grant a special use and variations to Township High School District 214 for an existing elementary school at the Property subject to the following conditions:

1. The proposed development shall substantially conform to the plans attached as part of this petition.
2. Final engineering shall be revised in a manner acceptable to the Village Engineer.
3. Approval from MWRD, IEPA and the Regional Office of Education shall be obtained for the proposed holding tank.
4. A final plat of subdivision consolidating all the lots shall be submitted in a manner acceptable to the Village.

Section 3. This Ordinance shall be in full force and effect upon the submittal of a signed Exhibit B (Acceptance and Agreement) hereto. This Ordinance shall not be codified.

AYES: 5 – Berman, Stein, Weidenfeld, Johnson, Smith

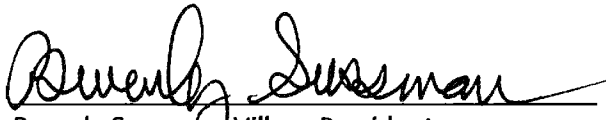
NAYS: 0 - None

ABSENT: 1 - Ottenheimer

PASSED: January 22, 2018.

APPROVED: January 22, 2018.

APPROVED:


Beverly Sussman Village President

ATTEST:


Janet M. Sirabian, Village Clerk

EXHIBIT A
LEGAL DESCRIPTION

Township High School District 214 – Buffalo Grove High School
1100 W Dundee Road
Special Use and Variation for a High School

SUBJECT PROPERTY LEGAL DESCRIPTION:

The Southwest Quarter of the Southwest Quarter of Section 5, Township 42 North, Range 11, East of the Third Principal Meridian, in Cook County, Illinois.

ALSO

That part of the South Half of the East Half of the Southwest Quarter of Section 5, Township 42 North, Range 11, East of the Third Principal Meridian, bounded by a line described as follows: beginning at the Southwest corner of the South Half of the East Half of said Southwest Quarter; Thence North along the West line thereof, 475.0 feet; Thence East parallel to the South line of said Southwest Quarter, 887.0 feet; Thence South parallel with the West line of the South Half of the East Half of said Southwest Quarter 475.0 feet to a point on the South line of said Southwest Quarter; Thence West along the Southwest Quarter of said Section 5, 887.0 feet to the point of beginning, excepting therefrom the South 50.0 feet thereof, in Cook County, Illinois.

EXCEPT

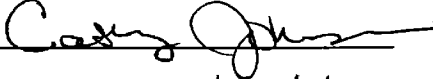
That part of the Southwest Quarter of Section 5, Township 42 North, Range 11, East of the Third Principal Meridian, described as follows: Beginning at the intersection of the present North line of Dundee Road, being a line 50.00 feet North of and parallel with the South line of said Southwest Quarter of Section 5, with a line that is 887.00 feet East of, as measured along the South line of said Southwest Quarter of Section 5, and parallel with the West line of the East half of said Southwest Quarter; Thence North 0° 00' 00" East, parallel with the West line of the East half of said Southwest Quarter of section 5, a distance of 64.50 feet; Thence South 90° 00' 00" West, a distance of 1.00 foot; Thence South 20° 13' 29" West, a distance of 40.50 feet; Thence South 31° 41' 11" West, a distance of 30.85 feet to the aforesaid North line of Dundee Road; Thence South 89° 46' 48" East along said North line, a distance of 31.00 feet to the place of beginning, in Cook County, Illinois.

SUBJECT PROPERTY COMMON DESCRIPTION: 1100 W Dundee Road, Buffalo Grove, IL
(PINS 03-05-302-003-0000, 03-05-302-002-0000,
03-05-303-029-0000, 03-05-303-003-0000)

EXHIBIT B**Acceptance and Agreement Concerning Special Use****Township High School District 214 – Buffalo Grove High School
1100 W Dundee Road
Special Use and Variation for a High School**

Township High School District 214 acknowledges that it has read and understands all of the terms and provisions of Buffalo Grove Ordinance No. 2018 - 002 pertaining to the special use and variation, and does hereby accept and agree to abide by and be bound by each of the terms, conditions and limitations of said Ordinance.

Township High School District 214

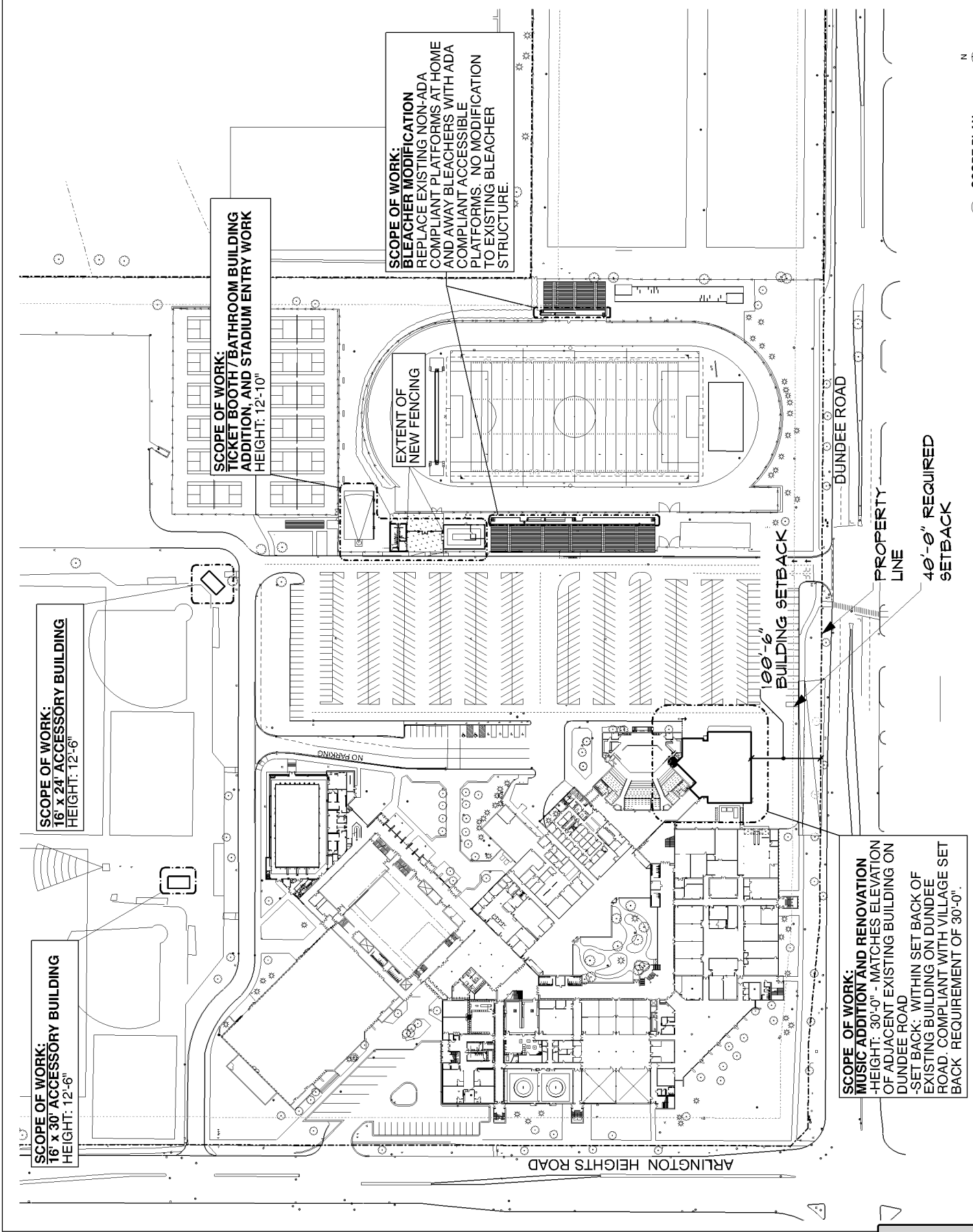
By: 

Name (print): Cathy Johnson

Title: Associate Supt. for Finance & Operatio

EXHIBIT C
Engineering Plans and Building Elevations

Township High School District 214 – Buffalo Grove High School
1100 W Dundee Road
Special Use and Variation for a High School



1 SCOPE PLAN
SCALE 1" = 80'

2.1.b

A1.0

SCOPE PLAN

IN-PROGRESS
NOT FOR CONSTRUCTION
12/15/17

The Board of Education Township
High School District 214
2121 South Greenfield Rd.
Arlington Heights, IL 60005

D214 CPP 2018-2019 RN
1100 W Dundee Rd.
Buffalo Grove, IL 60089

PROJECT
D214 CPP 2018-2019 RN
1100 W Dundee Rd.
Buffalo Grove, IL 60089

KEY PLAN





Action Item : Consideration of a Request for a Special Use for a Home Daycare at 4 Brucewood Court - Consideration of This Item Will be Continued to the May 15, 2024 PZC Meeting.

Recommendation of Action

The PZC is requested to open a public hearing and continue consideration of the request for a Special Use to allow a Home Daycare at 4 Brucewood Court to the regularly scheduled PZC meeting on May 15, 2024.

Staff is requesting additional information of the petitioner, and more time is needed before the item will be ready for consideration by the PZC.

Trustee Liaison
Weidenfeld

Staff Contact
Kelly Purvis, Community Development

Wednesday, April 17, 2024	
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03/6/2024

**MINUTES OF THE REGULAR MEETING OF THE PLANNING AND ZONING COMMISSION OF THE
VILLAGE OF BUFFALO GROVE HELD IN THE COUNCIL CHAMBERS, 50 RAUPP BOULEVARD,
BUFFALO GROVE, ILLINOIS ON WEDNESDAY, MARCH 6, 2024**

Call to Order

The meeting was called to order at 7:30 PM by Commissioner Kevin Richards

Public Hearings/Items For Consideration

1. Consideration of Multiple Variations to Title 14 (Sign Code) to Allow BMO Harris Bank to Replace a Wall Sign on the East Elevation of the Building at 500 W Half Day Road (Trustee Weidenfeld) (Staff Contact: Andrew Binder)

Binder, Associate Planner, provided a background on the subject property and the request.

Com. Worlikar asked if the new sign is a part of BMO Harris's new corporate standard.

Binder stated that he believes to be the case.

Bill Holly, Bright Light Sign Company, was sworn in as the Petitioner and gave an overview of the request. He indicated that the building does not have a freestanding sign or a tenant panel sign and this proposed sign along the east elevation will help with the identification of the business for cars traveling west along Half Day Road.

Com. Au asked about the size of the sign and if the new sign will be the same size as the existing "BMO" and logo.

Petitioner indicated that they are similar in size.

Com. Moodhe asked about the lumen output of the sign.

Petitioner indicated that he was unsure of the lumen output of the sign.

Com. Spunt asked about the shortened name of the business.

Petitioner indicated he wasn't sure why they were changing the name.

Com. Spunt asked about the location of the sign and its visibility.

Petitioner responded that they wanted to take advantage of the flat facia, and increase visibility from the shopping center.

The public hearing closed at 7:45 PM.

Commissioner Moodhe made a motion to make positive recommendation to the Village Board for approval of the variations to Title 14 (Sign Code) of the Village Code to allow more than two wall signs on the building, to allow a wall sign on the east elevation that does not face a public right-of-way, and to allow a wall sign larger in size than the wall sign over the primary entrance at the BMO Harris Bank located at 500 W Half Day Road subject to the following conditions:

 1. *The wall sign shall be installed in accordance with the documents and plans submitted as part of this petition.*
 2. *The Petitioner shall comply with all applicable Village codes, regulations, and policies.*

Minutes Acceptance: Minutes of Mar 6, 2024 7:30 PM (Approval of Minutes)

03/6/2024

Com. Spunt seconded the motion.

Com. Moodhe spoke in favor of the motion due to the east elevation being quite visible from the public ROW. He continued that this limitation should be changed when we update our sign code.

Com Worlikar spoke in favor of the motion and indicated that the sign variation is equivalent to and consistent with other sign variations we have granted and will help with the business's visibility.

Vice Chairman Richards spoke in favor of the motion as the request makes perfect sense. He indicated that it provides visibility for the business.

RESULT:	APPROVED [UNANIMOUS]
AYES:	Moodhe, Spunt, Au, Richards, Worlikar, Davis, Saxena
ABSENT:	Mitchell Weinstein

Regular Meeting

Other Matters for Discussion

Approval of Minutes

1. Planning and Zoning Commission - Regular Meeting - Jan 17, 2024 7:30 PM

RESULT:	ACCEPTED [5 TO 0]
AYES:	Moodhe, Spunt, Richards, Davis, Saxena
ABSTAIN:	Amy Au, Neil Worlikar
ABSENT:	Mitchell Weinstein

Chairman's Report

None

Committee and Liaison Reports

Committee Liaison provided an update on the last Village Board Meeting.

Staff Report/Future Agenda Schedule

Staff provided information on the future agenda schedule and OMA compliance trainings.

Public Comments and Questions

None

Adjournment

The meeting was adjourned at 7:51 PM

Minutes Acceptance: Minutes of Mar 6, 2024 7:30 PM (Approval of Minutes)

03/6/2024

Kelly Purvis

APPROVED BY ME THIS 6th DAY OF March, 2024

Mitchell Weinstein, Commissioner

Minutes Acceptance: Minutes of Mar 6, 2024 7:30 PM (Approval of Minutes)