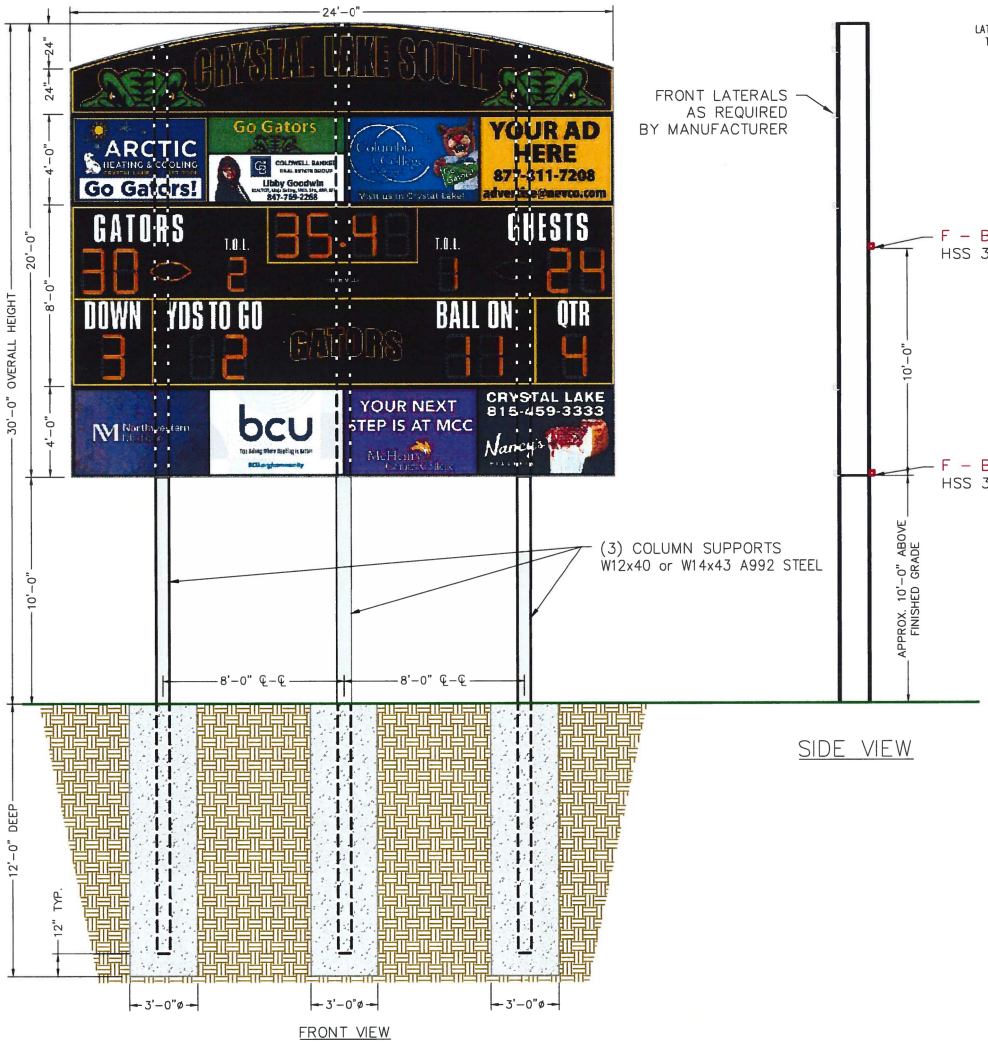
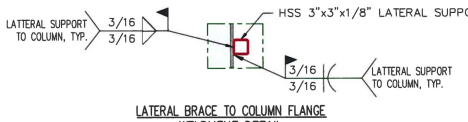
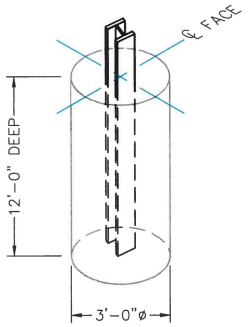


FRONT VIEW

SIDE VIEW



LATERAL BRACE TO COLUMN FLANGE WELDMENT DETAIL
NOT TO SCALE



AUGURED FOOTING OPTION DETAIL
DIRECT BURIAL (REBAR NOT REQUIRED)
NOT TO SCALE

USE FIBER REINFORCED CONCRETE
Polypropylene fiber: ASTM C1116, for Type III Synthetic-Fiber Reinforced Concrete, and as follows. Synthetic reinforcing fibers shall be 100 percent virgin polypropylene fibrillated fibers containing no reprocessed olefin materials. Fibers shall have a specific gravity of 0.9, a minimum tensile strength of 70 ksi, graded per manufacturer, and be specifically manufactured to an optimum gradation for use as concrete reinforcement. Provide a minimum of 1.5 pounds fiber reinforcement per cubic yard of concrete. Fibers shall be added at the batch plant.

GENERAL NOTES:

1. All design, detailing, fabricating and construction shall conform to the following codes and specifications:
   a. The 2018 International Building Code (ASCE 7-16).
   b. American Society of Testing and Materials (ASTM) specifications.
   c. Building Code Requirements for Reinforced concrete (ACI 318-(Current Edition)).
   d. Code for Welding in Building Construction of the American Welding Society.
   e. Specification for the Design. Fabrication and Erection of Structural Steel for Buildings by The American Institute of Steel Construction (AISC) (Current Edition).
   f. Aluminum Association Aluminum Design Manual (2010 Edition).
2. Concrete shall be f 2,500 P.S.I. a 28 days Compressive Strength, STD WT (150 P.C.F.)
3. Reinforcing Steel shall be ASTM A-615 Grade 60, (if required).
   a. All reinforcing steel shall be free from mud, oil, rust or coatings that would reduce or destroy bond.
   b. All reinforcing bars shall lap 30 diameters minimum, except as noted.
   c. Minimum concrete cover on ties, stirrups and main bars shall be 3/4 inch for slab, wall and surfaces not exposed to weather or in contact with ground; 3 inches for unformed surfaces deposited against the ground except as noted.
4. Structural Material Specifications:
   a. Aluminum shapes shall be extruded from 6061-T6 alloy. Welding filler alloy shall be 5183, 5356, 5356, or equivalent.
   b. Structural Steel and Plates shall be ASTM A-36 (F_y=36 ksi)
   c. W-Shape beams shall be ASTM A-992 (F_y=50 ksi) Minimum
   d. Structural tubing shall be ASTM A-500, Grade B, (F_y=46 ksi)
   e. Structural piping shall be ASTM A-53, Grade B, Type E or S, (F_y=35 ksi), ASTM A572 Grade 42 (F_y=42 ksi) or ASTM A572 Grade 50 (F_y=50 ksi), (see drawing for individual member specifications).
5. High strength bolts (if required) for connections shall be ASTM A-325, unless otherwise noted.
6. Welding electrodes shall comply with AWS D1.1-(Current Edition), E70XX. (All welding to be done by welder certified for specified weld type.)
7. Design Wind Speed, V_{ULT} 107 MPH Equivalent Wind Load, P_{ULT}= 34.4 PSF @ 30'-0" above the ground (3 Sec Wind Gusts.) Exposure "C" Risk Category II I_P 1.0 G=0.85
8. Soil Bearing Capacity Requirements:
   a. Minimum Allowable Vertical Bearing Capacity shall be N/A P.S.F
   b. Minimum Lateral Bearing Capacity shall be (150 PSF/FT * 2) 300 P.S.F. per foot of depth. (Times two increase per IBC Section 1806.3.4)
9. Contractor shall verify all dimensions and conditions in the field before erection and notify the Engineer of any discrepancies.

3rd party design revied
See cover letter
sh 1/1

LICENSED STRUCTURAL ENGINEER
JAMES E. WRIGHT
081-006016
9/7/2021
STATE OF ILLINOIS

James Wright Jr.

Digitally signed by James Wright Jr.
Date: 2021.09.07 13:48:36 -04'00'

NOTICE
T.E.S. is responsible for column supports & foundation design only. all other items shown are for informational purposes only. This drawing is for permitting purposes only & is for the sole use of I.F.S. and it's designees. Unauthorized use is strictly prohibited.

Carl E. Thompson Jr.

CARL E. THOMPSON, JR.
0062-052263
LICENSED PROFESSIONAL ENGINEER
8/31/21
STATE OF ILLINOIS

This item has been electronically signed and sealed by Carl E. Thompson, Jr., P.E. using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Crystal Lake South High School | Scoreboard 20'-0" x 24'-0" @ 30'-0" O.A.H.

Display Layout Sheet

Location: Crystal Lake South High School, 1200 McHenry Ave, Crystal Lake, IL 60014

CLIENT PO#: 081887-00

DRAWN BY:	D.P. Ward
DATE:	August 31, 2021
PROJECT#	199721
DWG.#	EB-12046
SCALE:	3/16" = 1'-0"

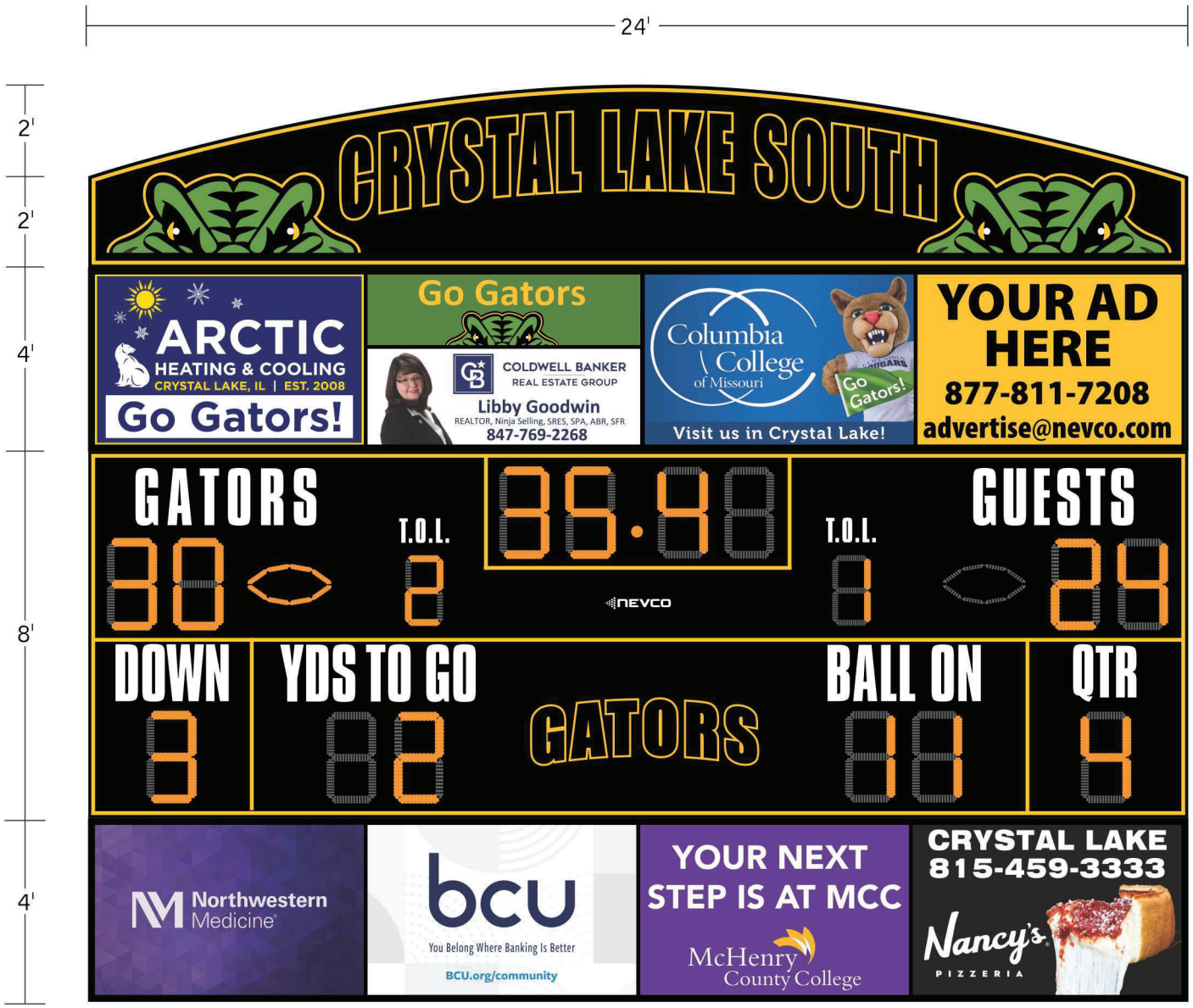
NEVCO SPORTS, LLC
301 E. Harris Ave.
Greenville, IL 62246
Phone: 800-851-4040
WWW.NEVCO.COM
MAXIMIZE YOUR IMPACT

SHEET 1 OF 1

THOMPSON ENGINEERING SERVICES, LLC
P.O. BOX 1500, ENGLEWOOD, TN 37329
PHONE: (423)781-7336 FAX: (423)781-7337

Crystal Lake South High School, Crystal Lake, IL

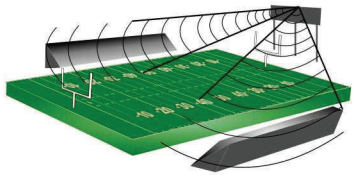
PROOF #51104A-PR



PROOF INCLUDES:

- **Model 3619 Football/Soccer LED Scoreboard**
  24'W x 8'H x 8"D
  Scoreboard Color: #76 Print Black
  Digit Color: Amber
  Custom Team Name: GATORS
  Custom Striping: #99 Golden Yellow
  Imprinted Logo: 5'W x 1.5'H
- **Non-illuminated Sign**
  (2) 24'W x 4'H
- **Non-illuminated Arch Sign**
  24'W x 4'H w/2' Ends

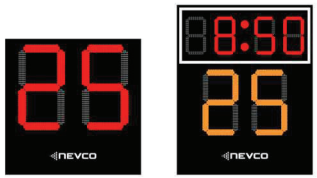
You may also be interested in these scoring accessories.



STADIUM PRO™ SOUND SYSTEM



MESSAGE CENTER



DELAY OF GAME TIMER

nevco

INTEGRATED DISPLAY AND SCORING SOLUTIONS

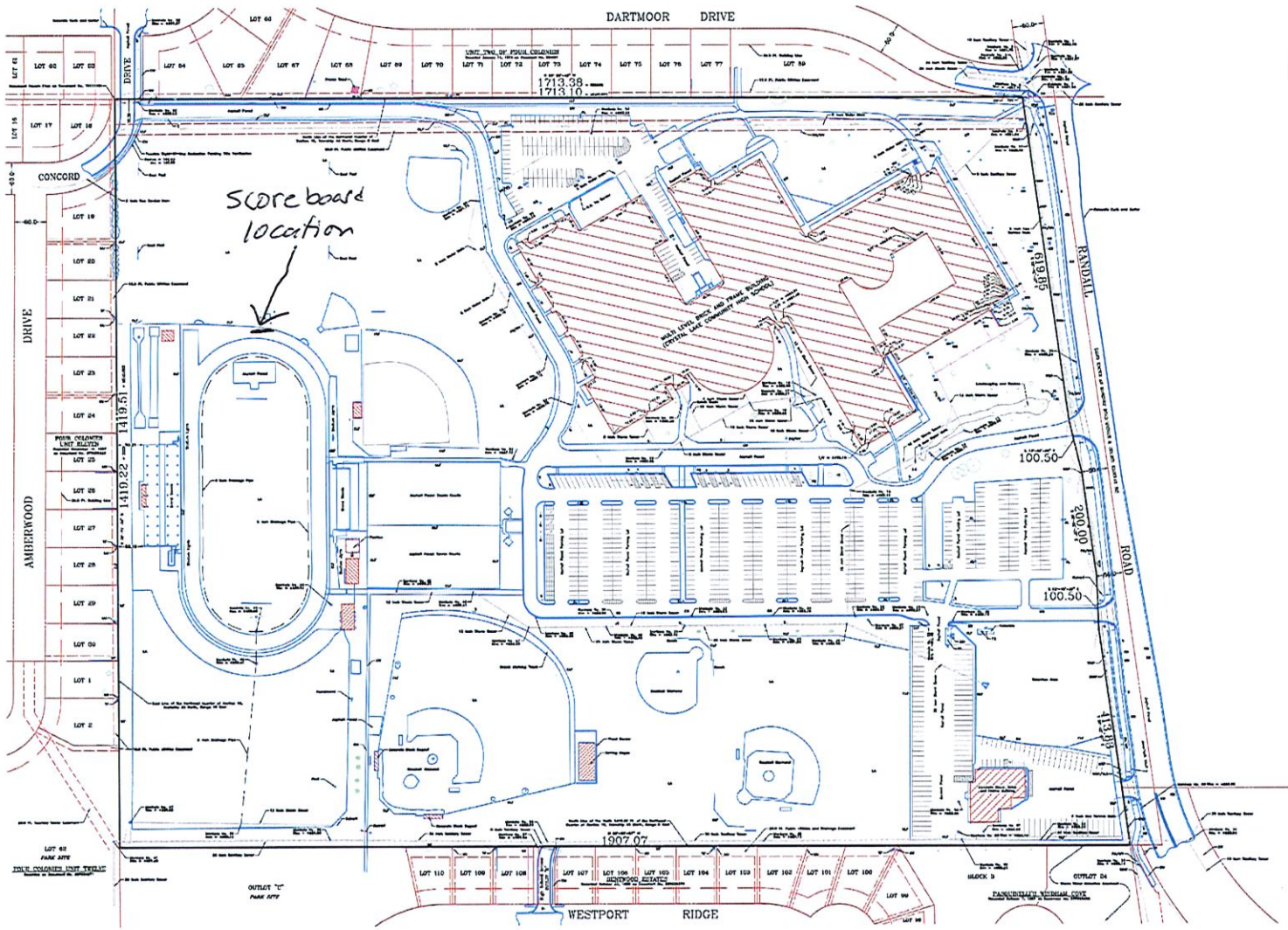
WWW.NEVCO.COM

SIGNATURE OF APPROVAL _____ **DATE** _____

This rendering is for conceptual purposes only. It may not be to exact scale or specifications and should not be used for installation purposes. Every effort has been made to make it as accurate as possible. Beams and or pillars are for illustration only. Engineering specifications may require changes in the quantity, size and/or shape of beams and pillars to meet installation requirements. Nevco assumes no obligations or liability regarding the viability of applicability of existing structures. THIS DRAWING IS THE PROPERTY OF NEVCO INC. AND SHALL NOT BE REPRODUCED, COPIED, SHARED or DISTRIBUTED WITH ANYONE OTHER THAN THE INTENDED STAFF OR CLIENT OF THE PROPOSED PROJECT WITHOUT THE EXPRESSED PERMISSION OF NEVCO INC.

Crystal Lake South High School

* proposed scoreboard would be 30' from grade



PLAT OF SURVEY

Prepared By
MARCHESE AND SONS, Inc.
land - marine - construction surveys

16 Meneco Drive
Roselle, Illinois 60172
Phone : (630) 894-5680
FAX : (630) 894-8869

PROPERTY DESCRIPTION

THE NORTH 541.20 FEET OF THE NORTHEAST QUARTER OF SECTION SIXTEEN, TOWNSHIP FORTY THREE NORTH RANGE EIGHT EAST OF THE THIRD PRINCIPAL MERIDIAN, LYING WEST OF THE WESTERLY RIGHT-OF-WAY OF RANDALL ROAD (ALSO KNOWN AS McHENRY AVENUE), IN McHENRY COUNTY, ILLINOIS.

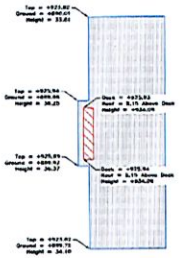
CONTAINING 2172272 SQUARE FEET OR 49.851 ACRES, MORE OR LESS

PARKING STALL SUMMARY	
STANDARD STALLS	703
HANDICAPPED STALLS	16
TEMPORARY STALLS	14
BUS STALLS	102
TOTAL	835

LEGEND

- AREA LIGHT (AL)
- CATCH BASIN (CB)
- CONCRETE PARKING BUMPER
- CURB DRAIN (CD)
- FIRE HYDRANT (FH)
- GAS METER (GM)
- HANDICAPPED PARKING SPACE
- MANHOLE COVER (MH)
- MONITOR WELL (MW)
- OVERHEAD WIRES (OHW)
- PIPE BOLLARD (PB)
- SIGN (S)
- STREET LIGHT STANDARD (SLS)
- TRAFFIC CONTROL LIGHT (TCL)
- WOOD SERVICE POLE (WSP)
- TREE
- EVERGREEN TREE
- PROPERTY BOUNDARY
- PARCEL LINES
- EASEMENTS

GRANDSTAND HEIGHT DETAIL
(NOT TO SCALE)



SITE LOCATION MAP
(NOT TO SCALE)



LEGEND

- AC = ANCHOR CABLE
- ACU = AIR CONDITIONER UNIT
- AL = AREA LIGHT
- AS = ADVERTISEMENT SIGN
- CB = CATCH BASIN
- CD = CURB DRAIN
- CLF = CHAIN LINK FENCE
- CO = CLEAN OUT PIPE
- EM = ELECTRIC METER
- FH = FIRE HYDRANT
- GM = GAS METER
- GR = GUARD RAIL
- HH = HAND HOLE
- LPOL = LIGHT POLE
- MH = MANHOLE COVER
- MW = MONITOR WELL COVER
- MHW = MANHOLE COVER
- OHW = OVERHEAD WIRES
- PB = PIPE BOLLARD
- PT = PUBLIC TELEPHONE
- S = SIGN
- SC = SUPPORT COLUMN
- SLS = STREET LIGHT STANDARD
- TCB = TRAFFIC CONTROL BOX
- TCL = TRAFFIC CONTROL SIGNAL LIGHT
- TCS = TRAFFIC CONTROL SIGNAL
- TF = TRANSFORMER
- UGW = UNDERGROUND WIRES
- UM = UTILITY MAST
- VP = VENTILATION PIPES
- WSP = WOOD SERVICE POLE
- WV = WATER VALVE

ONE INCH = EIGHTY FEET

SCALE 0 20 40 80 120 160 200 240 280 320 360 400 FEET
METRIC SYSTEM 0 6.09 12.19 24.38 36.57 48.77 60.96 73.15 85.34 97.54 109.73 121.92 METERS
BAR

NOTE : UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN PLOTTED WITH THE AID OF AVAILABLE RECORDS. FOR LOCATIONS OF UNDERGROUND UTILITY MAINS, PLEASE CONTACT J.U.L.I.E. BY CALLING 811 OR 1-800-892-0123.

SHEET: 1 OF 2

PIN NO.: 19-16-200-006

ADDRESS: 1200 S. McHENRY AVENUE
CRYSTAL LAKE, IL
CRYSTAL LAKE SOUTH HIGH SCHOOL

SCALE: ONE INCH = EIGHTY FEET

ORDER NO.: 01-14235

ORDERED BY: MR. JEFF DAURER
FOR SCHOOL DISTRICT NO. 155

COMPARE ALL POINT BEFORE BUILDING BY SAME AND AT ONCE REPORT ANY DIFFERENCE. FOR BUILDING LINE AND OTHER RESTRICTIONS NOT SHOWN HEREON REFER TO YOUR CONTRACT, DEED, TITLE INSURANCE POLICY AND ZONING ORDINANCE. BASIS OF BEARINGS SHOWN HEREON HAVE BEEN ASSUMED. MONUMENTS OR WITNESS POINTS WERE NOT SET AT THE CLIENTS REQUEST.

"THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY."

STATE OF ILLINOIS }
} ss.
COUNTY OF DUPAGE }

I, PAUL N. MARCHESE, HEREBY CERTIFY THAT I HAVE SURVEYED THE ABOVE DESCRIBED PROPERTY AND THAT THE PLAT HEREON DRAWN IS A CORRECT REPRESENTATION OF SAID SURVEY.

DATED AT ROSELLE, NOVEMBER 7, 2014

ILLINOIS LICENSED PROFESSIONAL LAND SURVEYOR NO. 2461

* The advertisements on the football scoreboard are not illuminated.