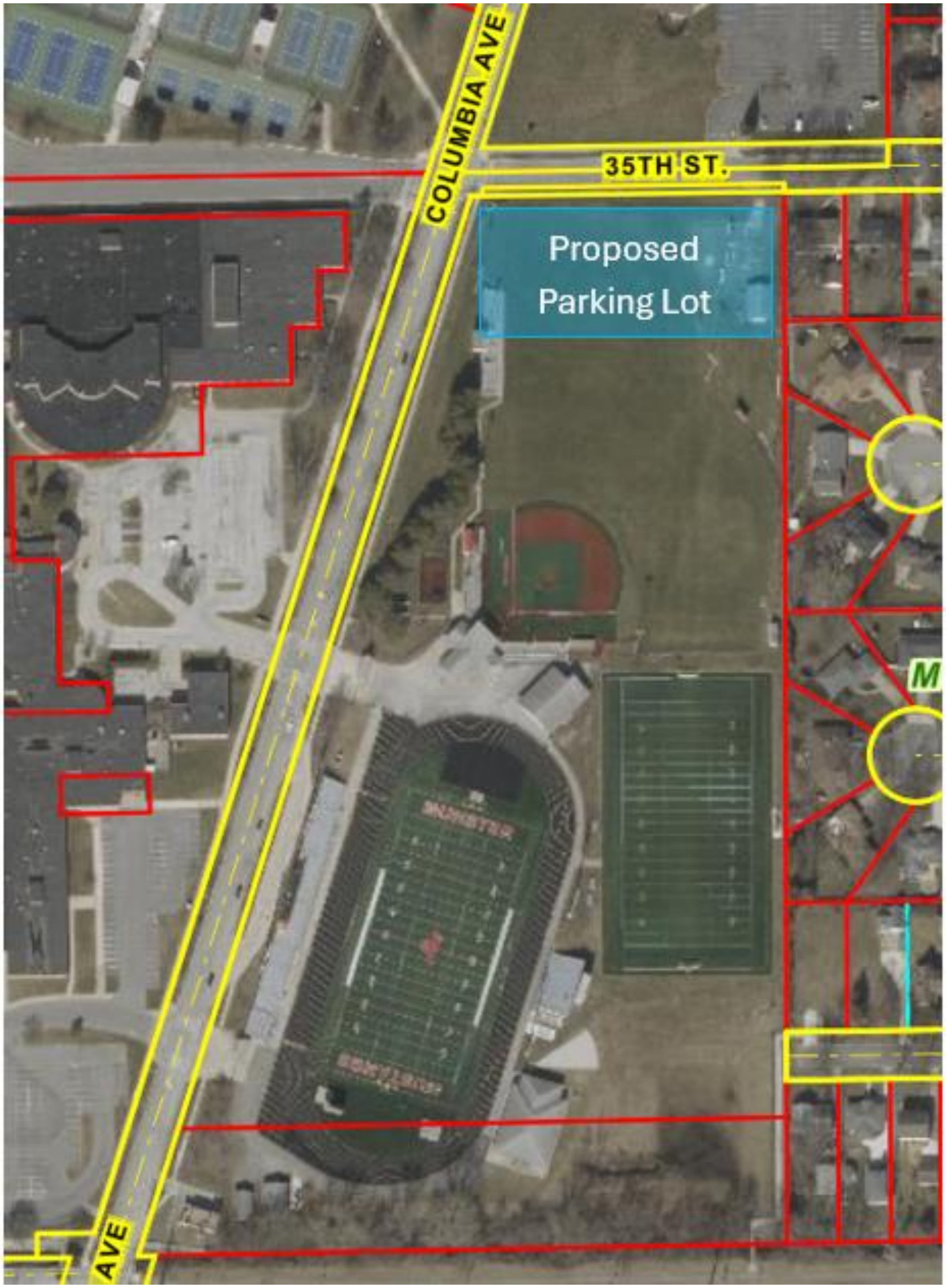
BOARD OF ZONING APPEALS STAFF REPORT

To:	Members of the Board of Zoning Appeals
From:	Sergio Mendoza, Planning Director
Meeting Date:	April 8, 2025
Agenda Item:	BZA 25-003
Application Type:	Development Plan
Hearing:	Preliminary Hearing
Summary:	A request for Developmental Standards Variances from parking stall dimensions, parking lot landscape requirements, and private lighting standards, to construct a new parking lot and install new lighting at 8823 Columbia Ave.

Owner:	School Town of Munster; Dr. Bret Heller, Superintendent
Applicant:	WT Group; Jim Glascott ,PE
Property Address:	8823 Columbia Ave. – north of high school football stadium
Current Zoning:	CZ (Civic Zone)
Adjacent Zoning:	North: CZ South: CZ East: CD-3.R1 West: CZ
Action Requested:	Schedule Public Hearing
Additional Actions Required:	Schedule Public Hearing Review Developmental Variance Conditions of Approval Form Review Character Based Zoning Code(s) (CBZC) Findings of Fact
Staff Recommendation:	Schedule Public Hearing
Attachments:	1. Exhibit A: Application (pg 6) 2. Exhibit B: Site Plan (pg15) 3. Exhibit C: Landscape Plan (pg 19) 4. Exhibit D: Construction Plans (pg 20)

PROJECT LOCATION

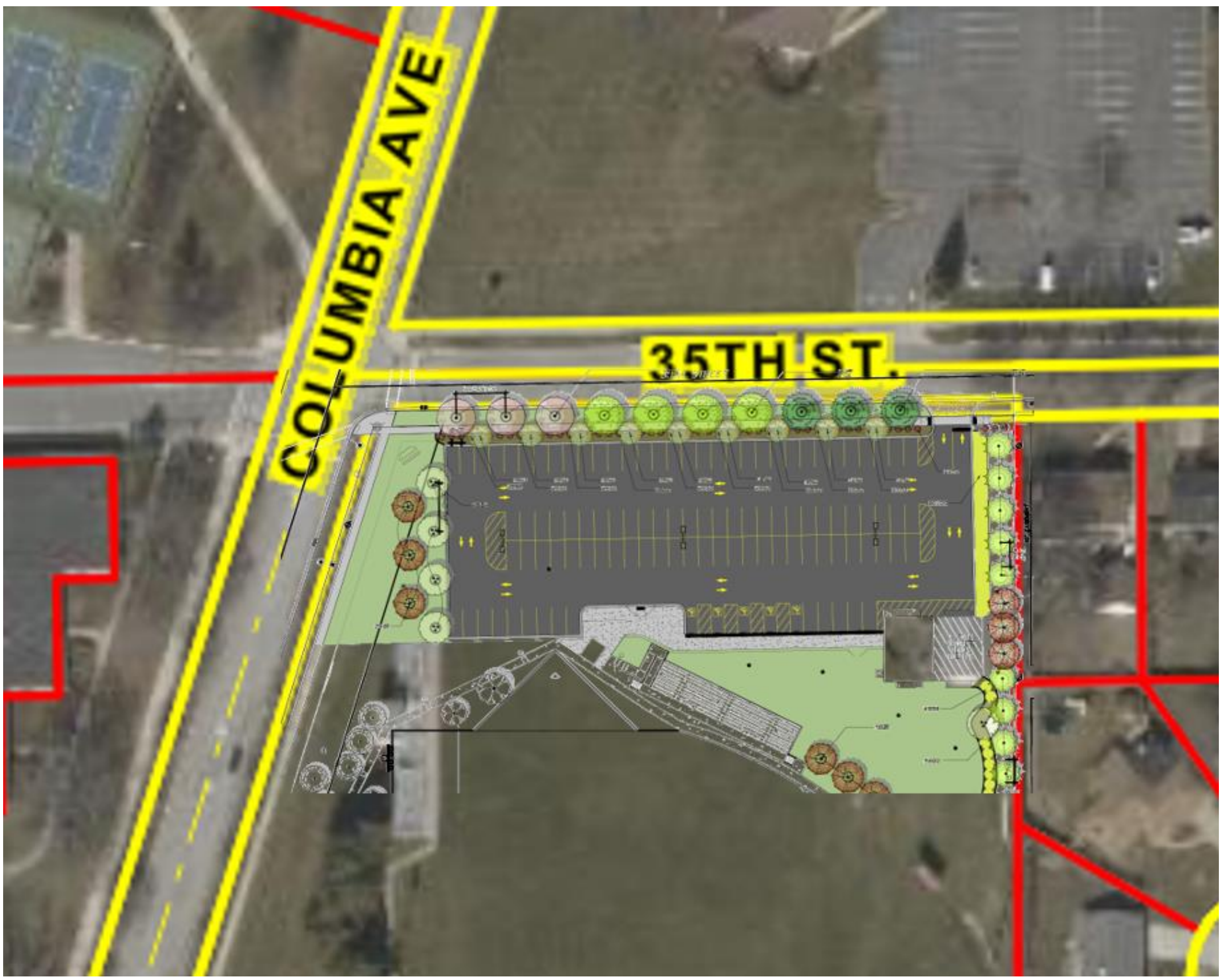
The proposed development is located at the southeast corner of Columbia and 35th Street, on the same parcel, immediately north of the athletic fields in the School Town of Munster John E. Friend Athletic Complex, commonly known as 8823 Columbia Avenue.



PROJECT SUMMARY:

School Town of Munster has received approval to upgrade an athletic field, bullpens, and concrete walkways. Existing lighting and scoreboard were to remain the same. In addition to these upgrades the School Ton of Munster is now proposing:

- Construction of a new 120’ x 321’ parking lot with 102 parking stalls stand 5 handicapped parking stalls.
- 9’ x 18’ parking stalls
- 15’H x 93’W x 18’D bleachers
- Expand an existing 30 x 40 storage building to a 60’ x 40’storage building
- 3 - cobra head parking lot lights, 3000k, 20’H; 1 - cobra head area light, 5700k, existing pole addition mounting; 7 - cobra head walkway lights, 3000k, 14’H; 2 – full cutoff wall pack building lights, 3000k, 8’H.
- Landscape buffer perimeter to include 39-trees, 15-evergreens; 47-shrubs; 252-tall grasses.
- New or relocated scoreboard.



APPLICABLE CODES

Staff finds the proposed Development Plan will require several Developmental Standard Variance from:

- **Off Site Vehicular Parking Space Dimensions** (MCBZC page 251)

Proposing: 9'x18' parking stalls

Required: 9' x 21' parking stalls

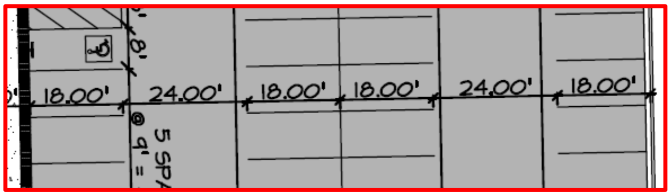


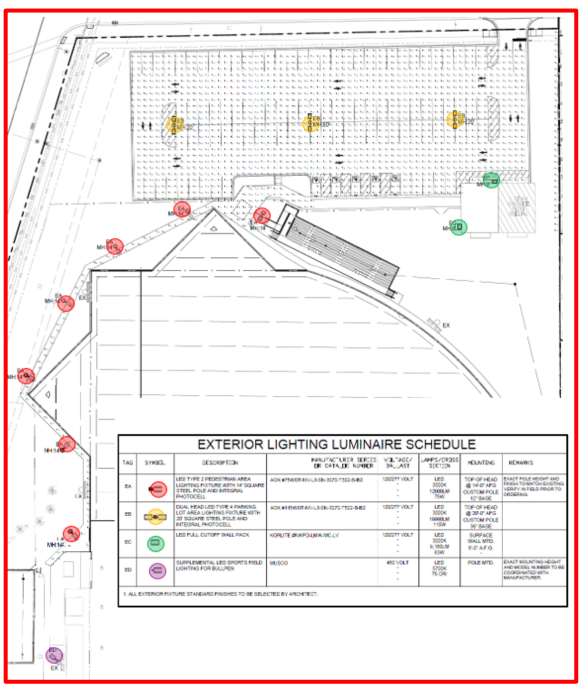
TABLE 26-6.405.O-3 (OFF-STREET VEHICULAR PARKING SPACE DIMENSIONS)

Parking Angle (degrees)	Stall Width	Minimum Stall Length	Aisle Width
0	9'0"	21'0"	12'0"
30–53	9'0"	18'0"	13'0"
54–74	9'0"	18"0"	16'0"
75–90	9'0"	18'0"	21'0"

- **Private Lighting Standards** (MCBZC page 264).

Proposing: Cobra Head (all)
Proposing: unknown height, on existing (ED)
Proposing: 5700K (ED)

Required: Colonial, Coach, or Acorn
Required: 20'H
Required: 3000K



2. Lighting Standards or Poles.

a. Lighting standards shall comply with **Table 26-6.405.Q-1 (Private Lighting Types)**.

b. A lighting standard shall be of a height and design consistent with the surrounding area Buildings but in no event higher than twenty feet (20').

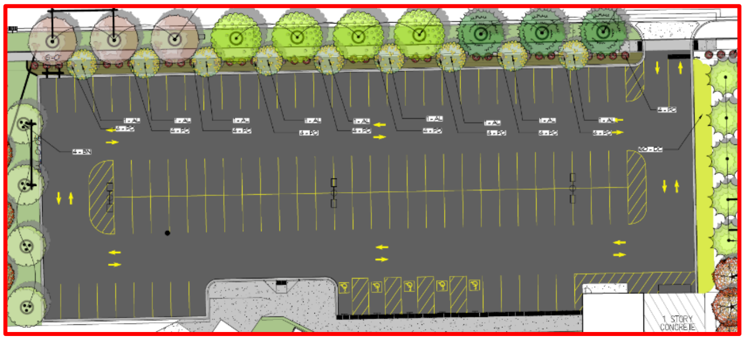
3. Illumination.

c. Color temperature of lighting shall not exceed 3000K.

- **Parking Lot FLandscape Standards** (MCBZC page 251).

Proposing: No parking lot landscape islands.

Required: landscape parking lot islands every 10 parking spaces and at the end of each row of parking stalls.



I. Any Parking Area or Parking Lot having ten (10) or more parking spaces shall conform to the following:

1) Parking Areas and Parking Lots shall contain at least one landscape island for every ten (10) parking spaces. Parking Lots with more than one landscape island shall have such islands distributed throughout the Parking Lot.

2) Interior parking rows shall be terminated at both ends with landscape islands.

3) Each parking island shall be of a minimum size equal to a standard parking space; provided that each parking island abutting two rows of head to head parking spaces shall be of a minimum size and length equal to two (2) parking spaces.

STAFF FINDINGS AND RECOMMENDATION:

Staff finds all documents are in order to proceed with a public hearing and recommends the BZA review the Developmental Variance Conditions of Approval Form found on page 9, as well as scheduling a public hearing for BZA25-003 on May 13, 2025.

MOTION:

The Board of Zoning Appeals may wish to consider the following motion:

Motion to schedule BZA25-003, a request for Developmental Standards Variances for Parking Stall Dimensions, Parking Lot Landscape Requirements, and Private Lighting standard requirements for the School Town of Munster, including all discussion and findings.

Exhibit A

Petition BZA 25 -003

Date: ___________________

Application Fee: $________

Sign Fee: $______________

Town of Munster Board of Zoning Appeals Petition Application

OWNER INFORMATION:

School Town of Munster - Dr. Bret Heller, Superintendent of Schools

Name of Owner

219-836-9111

Phone Number

8616 Columbia Avenue, Munster, IN 46321

Street address, City, ST, ZIP Code

bsheller@munster.us

Email address

APPLICANT OR PETITIONER INFORMATION (if different than above):

WT Group - Jim Glascott PE

Name of Applicant/Petitioner

224-293-6333

Phone Number

2675 Pratum Ave - Hoffman Estates, IL 60192

Street address, City, ST, ZIP Code

jglascott@wtgroup.com

Email address

PROPERTY INFORMATION:

School Town of Munster - New Parking Lot and Storage Building Addition

Business or Development Name (if applicable)

8823 Columbia Avenue - Munster, IN 46231

Address of Property or Legal Description

CZ

Current Zoning

APPLICATION INFORMATION:

Please select what this Application is for:

☐ **Use Variance** If yes, select one of the following: ☐X **Developmental Standards**

☐ **Conditional Use**

☐ **Administrative Appeal**

Brief Description of Project and List of Variances or Conditional Uses Being Requested (if applicable):

Construction of a new parking lot, new sidewalks, new bleachers, and a new storage building for the recently constructed baseball / soccer field improvements. Please note that stormwater detention was provided for these improvements as part of the baseball / soccer field improvements project. A variance is being requested from the requirement to provide 10% internal landscaping within the proposed parking lot as the landscape islands will create difficulties for maintenance / plowing operations, and because they intend to use this lot for marching band practices and the islands would create tripping hazards and space limitations. we request that the required landscaping within the parking lot be relocated to the perimeter of the site to help provide additional screening of the lot.

Jim Glascott PE - Principal in Charge - WT Group - Civil Engineering

Name of Registered Engineer, Architect or Land Surveyor

224-293-6333

Phone Number

2675 Pratum Avenue - Hoffman Estates, IL 60192

Street address, City, ST, ZIP Code

jglascott@wtgroup.com

Email address

Petition PC_________-__________

Town of Munster *Plan Commission Application Signature Page*

I hereby authorize Jim Glascott P.E. to act on my behalf as my agent in this petition and to furnish, upon request, supplemental information in support of this petition application.

___________________________________ 9/10/24

Signature of Owner ***Date***

Jim Glascott 9-12-24

Signature of Applicant ***Date***

REQUIRED ATTACHMENTS

Required Attachments for Board of Zoning Appeals Applications

To ensure that adequate information is provided to the BZA, please check off each of these items and provide documentation to the Community Development Department at the time of submittal of the application.

ALL APPLICATIONS	Included	N/A
Narrative statement describing project	x	
Property owner consent (Signature page)	x	
Proof of Ownership (e.g. copy of tax bill)		x
Plat of Survey depicting current conditions	x	
Site Plan containing the following:	x	
Boundary identification	x	
Fire hydrant locations	x	
Accessory structures	x	
Parking lot design	x	
Utility location	x	
Building footprints	x	
Proposed curb cuts	x	
Drainage/detention plans	x	
Traffic circulation	x	
Ingress/egress locations	x	
Major topographic information	x	
Infrastructure improvements	x	
Conditions of Approval Form (Note: complete the form specific to your petition)*		x
Any other information that the BZA may find useful in determining whether the application is merited.		

* Unique conditions have been established for special use permits for public garages, gas filling stations, used car lots, garden centers, massage parlors, adult bookstores, tattoo parlors, adult cabarets, and outdoor dining areas. Community Development staff will advise potential applicants of these at the pre-application meeting.

NOTE: If you checked any exhibits "N/A", please explain:

____

____

____

____

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____

____

BZA25-003

DEVELOPMENTAL VARIANCE CONDITIONS OF APPROVAL

The Munster Board of Zoning Appeals is authorized to hear petitions for developmental standards variances and to approve or deny. The Board of Zoning Appeals may also impose reasonable conditions and restrictions. Indiana Code 36-7-4-918.5 lists the legal criteria for a developmental standards variance:

1. The approval will not be injurious to the public health, safety, morals, and general welfare of the community. Explain why this statement is true in this case:

The removal of the internal parking lot landscaping islands will not be injurious because the landscaping required in these islands will still be provided on the site, and will provide additional parking lot screening from the neighboring properties

2. The use and value of the area adjacent to the property included in the variance will not be affected in a substantially adverse manner. Explain why this statement is true in this case:

The removal of the internal parking lot landscaping islands will not adversely affect the neighboring properties because the landscaping required in these islands will still be provided on the site, and will provide additional parking lot screening from the neighboring properties. This will provide a greater direct benefit to the neighboring properties than providing the landscaping within parking lot landscape islands.

3. The strict application of the terms of the zoning ordinance will result in practical difficulties in the use of the property. Explain why this statement is true in this case:

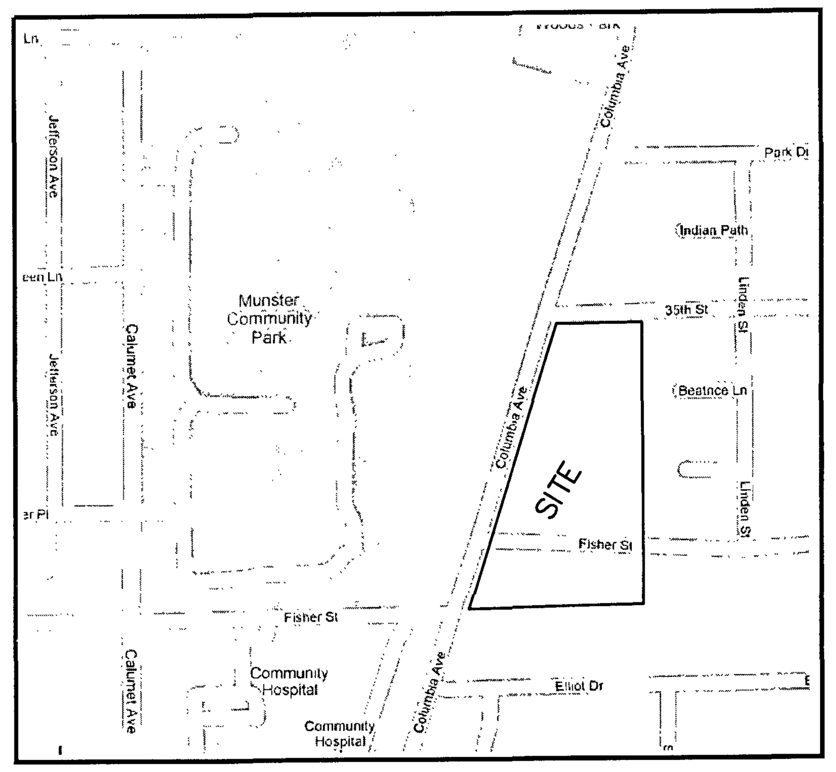
Installing landscape islands within the parking lot will create maintenance issues for the school staff required to plow the proposed parking lot, and it will create tripping hazards within the lot when used as a practice facility for the marching band. By locating marching band practices in this parking lot, it will allow the practices to be conducted earlier in the day, reducing noise levels later at night, and allowing the students to be home earlier.

Attach additional pages if necessary

ALTA/ACSM LAND TITLE SURVEY

Legal Description:
That part of the Southeast quarter of the Southwest quarter of Section 19, Township 36 North, Range 9 West of the Second Principal Meridian, in the Town of Munster, Lake County, Indiana, lying East of the Easterly line of Columbia Avenue (formerly Dyer Road), excepting therefrom the East 128.04 feet thereof and excepting 35th Avenue.

TOTAL AREA OF LAND SURVEYED = 777,215.65 Sq. Ft. / 17.84 Acres ±



VICINITY MAP

NORTH

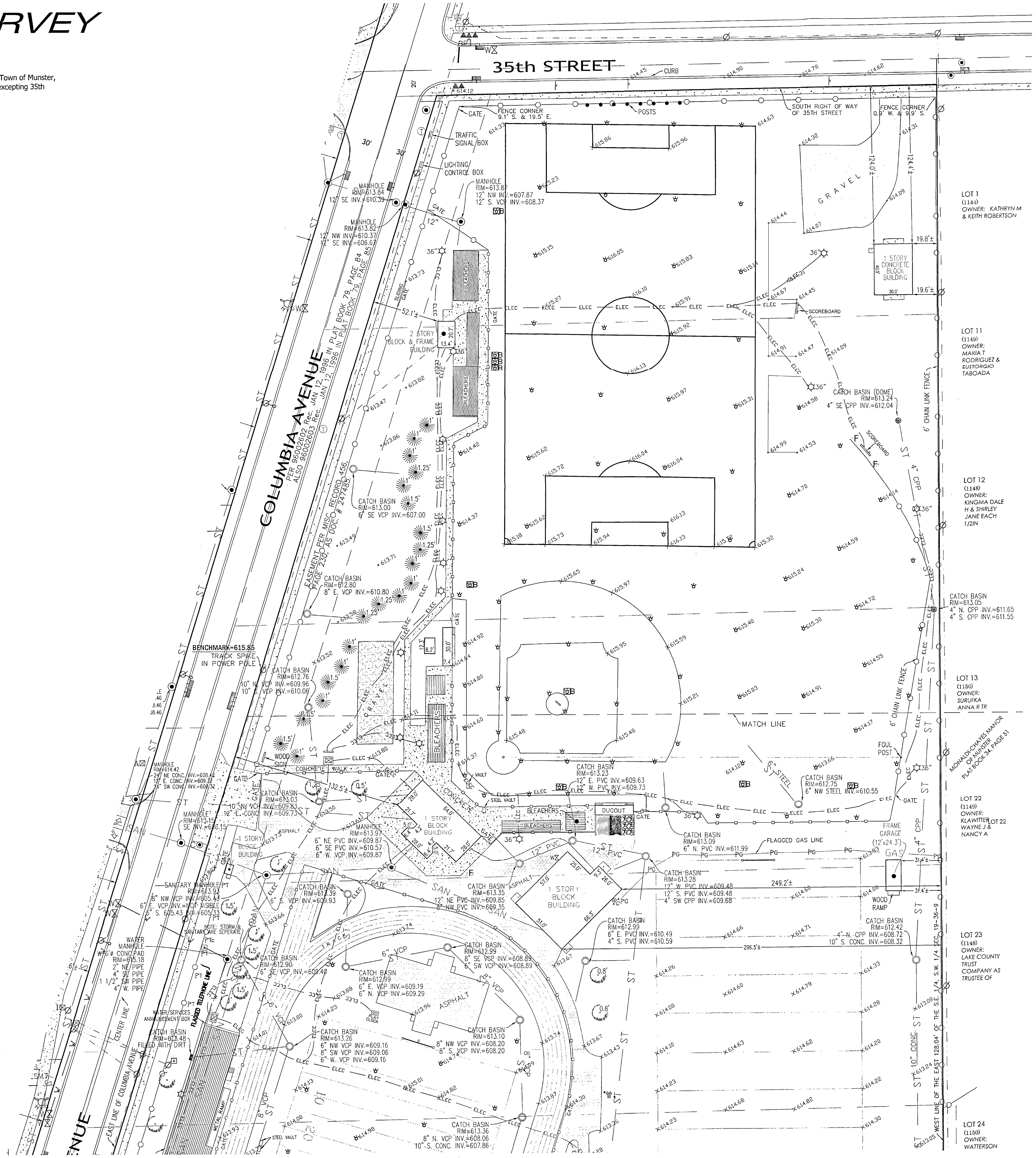
GRAPHIC SCALE

(IN FEET)
1 INCH = 40 FT.

NOTE: This property is located in Flood Zone "C" [Area of minimal flooding]

LEGEND:

- SET IRON BAR
- SET MAG NAIL
- SET IRON PIPE
- FOUND IRON PIPE
- FOUND IRON BAR
- SPRINKLER HEAD
- SPRINKLER CONTROL BOX
- PIPELINE MARKER
- POWER POLE
- POWER POLE w/ LIGHT
- POWER POLE / ANCHOR
- LIGHT POLE W/ CONC. DIAMETER
- LIGHT POLE
- LIGHT POLE
- END SECTION
- CATCH BASIN/INLET
- CURB DRAIN
- DRAIN
- BEEHIVE CATCH BASIN
- MANHOLE
- CLEAN OUT
- COMMUNICATIONS MANHOLE
- GAS LINE–FLAGGED
- GAS LINE–PAINTED
- TRAFFIC LIGHT POLE
- TELEPHONE–FLAGGED (AT&T)
- TELEPHONE–FLAGGED (COMCAST)
- TELEPHONE PEDESTAL
- TELEPHONE LINE–PAINTED
- TELEPHONE VAULT
- TELEPHONE MANHOLE
- SBC BOX
- ELECTRIC METER
- ELECTRIC LINE–PAINTED
- ELECTRIC MANHOLE
- ELECTRIC JUNCTION BOX
- ELECTRIC VAULT
- ELECTRIC TRANSFORMER
- FLAG POLE
- STEEL BOLLARD
- WATER SPIGOT
- WATERMAIN–FLAGGED
- WATER LINE–PAINTED
- WATER VALVE
- FIRE HYDRANT
- TELEPHONE PEDISTAL (AMERITECH)
- SPEED LIMIT SIGN
- BP TEST PIPE
- DECIDUOUS TREE W/ TRUNK DIA.
- EVERGREEN TREE



TORRENGA SURVEYING, LLC
PROFESSIONAL LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
TEL. No.: (219) 836-8918
WEBSITE: WWW.TORRENGA.COM

ALTA/ACSM Land Title Survey
Munster
MUNSTER, INDIANA
LAKE COUNTY

CLIENT:
DATE: 12/15/08
JOB NO: 0951-08
DRAWN: jle
SCALE: 1"=50'
Z:\S19 T36 R09 St Thomas Moore Church\dwg\0607-08.dwg 4/23/2009 2:33:15 PM CST

SHEET 2 OF 2

ALTA/ACSM LAND TITLE SURVEY

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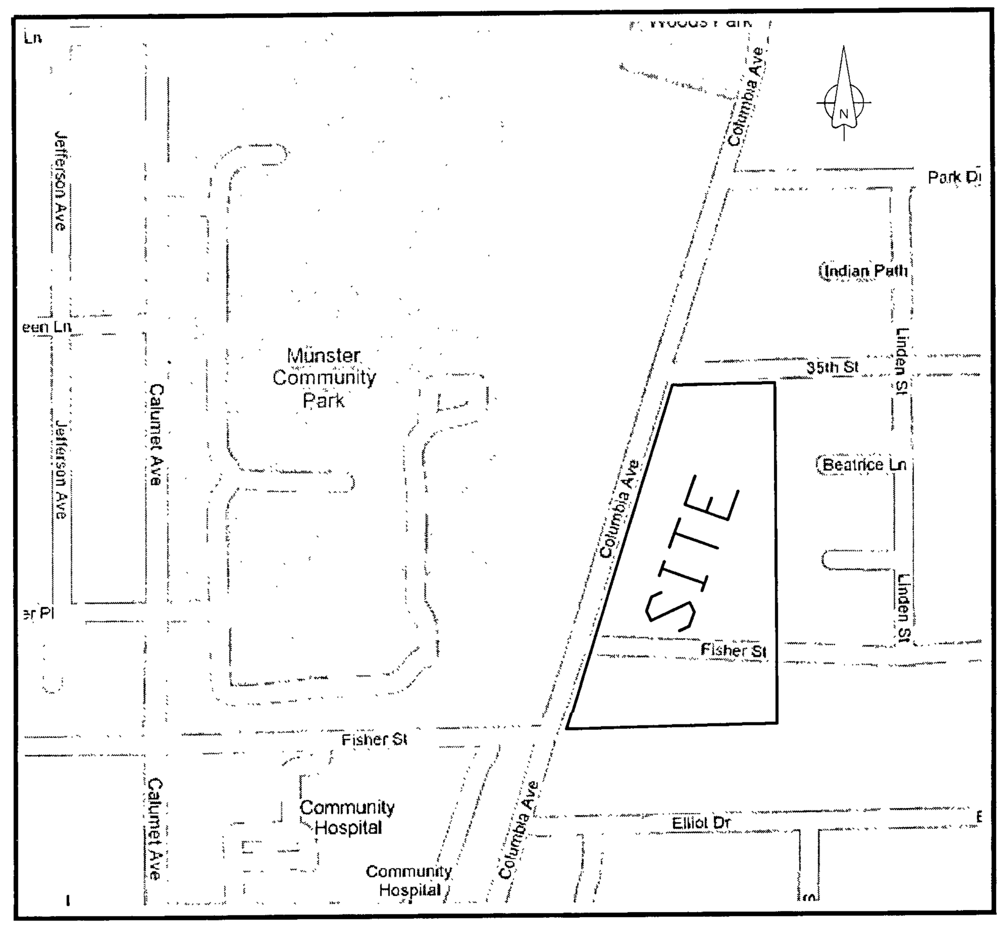
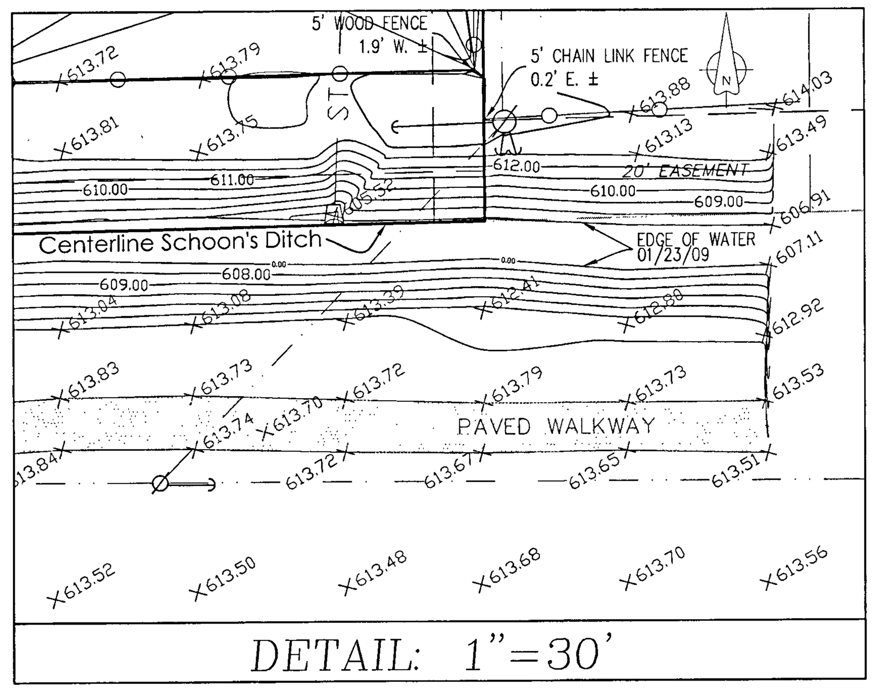


VICINITY MAP



DETAIL: 1"=30'

NORTH

GRAPHIC SCALE

(IN FEET)
1 INCH = 40 FT.

NOTE: This property is located in Flood Zone "C" [Area of minimal flooding].

THEORY OF LOCATION:

This Survey is based on the locations of called-for and uncalled-for monuments found at or near the corners of the subject parcel, and at or near the corners of adjacent parcels, and on information contained on the Record Plat of Monaldi-Chayes Manor of Munster, recorded in Plat Book 34, Page 51, also Plat of Dedication, recorded in Plat Book 79, page 85, also a Plat of Survey performed by R.W. Robinson & Associates as project No. 70-6-66 and dated 11-11-1970, also a Plat of Survey performed by R.W. Robinson & Associates as project No. 86-2-1, dated 3-4-1986, also a Plat of Survey performed by Torrenga Engineering as Job No. 593-80, dated 12-8-1980, also Sandoak Addition, performed by Torrenga Engineering, also a Munster Pool Corporation performed by Steve W. Manich, dated January 23, 1969, also a Certificate of Survey performed by Giovanni Postacchini, dated 9-5-1979, also a Plat of Survey performed by R.W. Robinson & Associates, dated 10-6-1978. All four corners of the section were found and held. The West quarter corner was re-established from information of the original location as shown in said Sand Oak Addition. The original notes from 1835 of fractional Section 19 show 16.25 chains on the North Fractional Quarter Quarter and 16.89 chains on the South Quarter Quarter. I prorated the North and South line using these measurements. A Plat of Legal Description performed by Shapiro Surveying, recorded in Plat Book 50, Page 86 and other survey done by Shapiro were found to have an error which caused several incorrect legal descriptions.

LEGEND:

- SET IRON BAR
- SET MAG NAIL
- SET IRON PIPE
- FOUND IRON PIPE
- FOUND IRON BAR
- SPRINKLER HEAD
- SPRINKLER CONTROL BOX
- PIPELINE MARKER
- POWER POLE
- LIGHT POLE
- POWER POLE / ANCHOR
- LIGHT POLE W/ CONC. DIAMETER
- LIGHT POLE
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- TELEPHONE LINE–PAINTED
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- SBC BOX
- ELECTRIC METER
- ELECTRIC LINE–PAINTED
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- FIRE HYDRANT
- TELEPHONE PEDESTAL (AMERITECH)
- SPEED LIMIT SIGN
- BP TEST PIPE
- DECIDUOUS TREE W/ TRUNK DIA.
- EVERGREEN TREE

SURVEYOR'S REPORT:

A.) AVAILABILITY OF MONUMENTS:

Uncertainties in Monument locations are noted. Unless otherwise stated, found monuments were undisturbed, in good condition, of unknown origin, and at or near grade.

B.) OCCUPATION AND POSSESSION:

No apparent uncertainties resulted due to occupation or possession lines, unless specifically shown on the plat.

C.) CLARITY OR AMBIGUITY OF RECORD DESCRIPTIONS:

No apparent ambiguity in the record description of the subject parcel

D.) RELATIVE POSITIONAL ACCURACY (due to random errors in measurements):

The survey performed met the requirements of a Suburban Survey according to title 865 IAC 1.1 - 12 et seq. The allowable relative positional accuracy is not less than 0.13 feet for set monuments.

CERTIFY TO:

School Town of Munster
Meridian Title Insurance

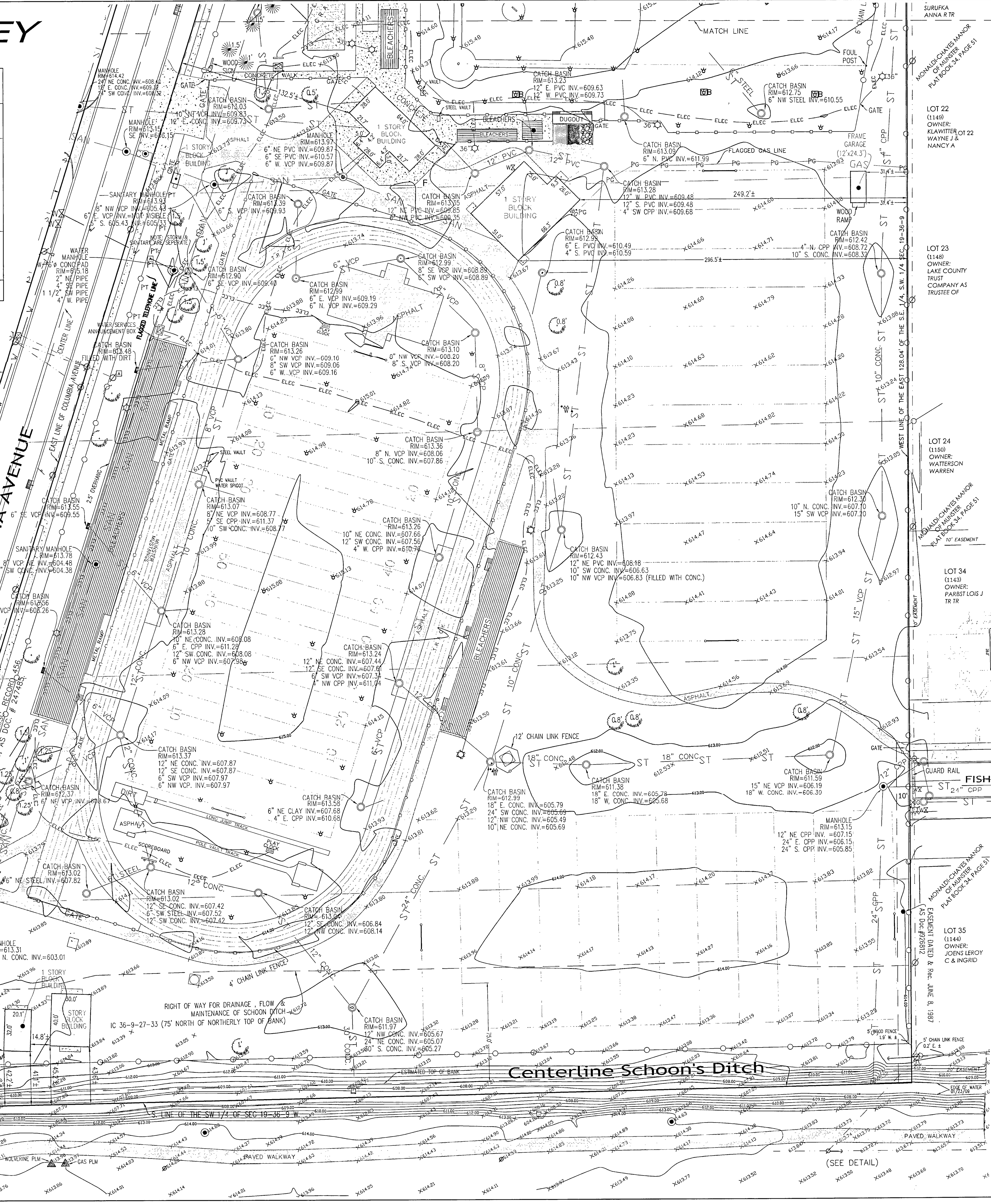
STATE OF INDIANA } §
COUNTY OF LAKE }

This is to certify that this map or plat and the survey on which it is based were made in accordance with the "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys," jointly established and adopted by ALTA AND NSPS in 2005, and includes items 1, 2, 3, 4, 6, 7a, 8, 9, 10, 11a and 13 of Table A thereof. Pursuant to the Accuracy Standards as adopted by ALTA, NSPS and in effect on the date of this certification, undersigned further certifies that in my professional opinion, as a land surveyor registered in the State of Indiana, the Relative Positional Accuracy of this survey does not exceed that which is specified therein.

DATE 02/17/09

TORRENGA SURVEYING, LLC
JOHN STUART ALLEN - Registered Land Surveyor No. LS29900011

JOHN STUART ALLEN REGISTERED No. LS29900011 STATE OF INDIANA LAND SURVEYOR



TORRENGA SURVEYING, LLC
PROFESSIONAL LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
TEL. NO.: (219) 836-8918 WEBSITE: WWW.TORRENGA.COM

ALTA/ACSM Land Title Survey
MUNSTER, INDIANA
LAKE COUNTY

DATE: 02/17/09

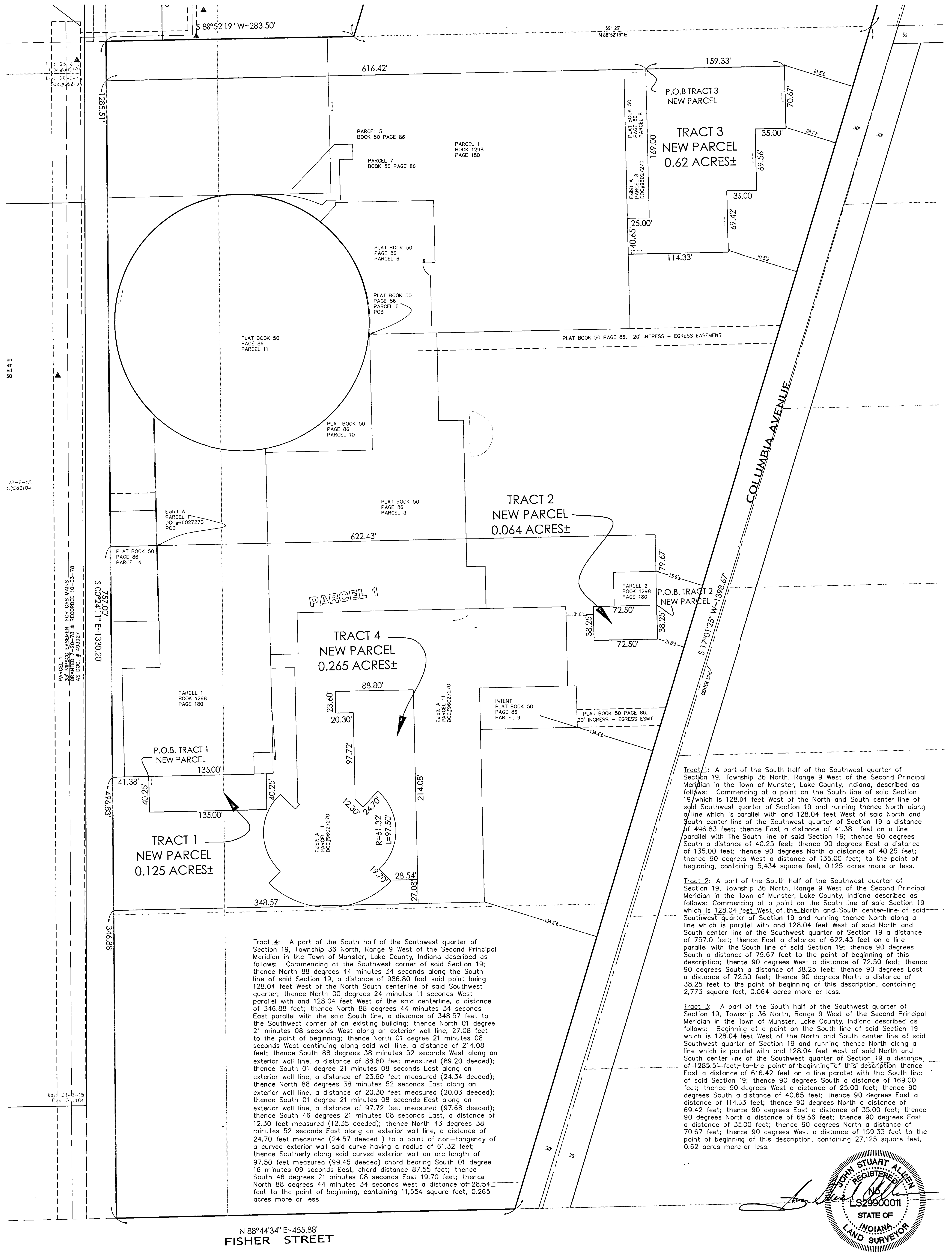
CLIENT:

JOB NO: 0951-08
DRAWN: jfe
SCALE: 1"=50'

SHEET 1 OF 2

PLAT OF LEGAL DESCRIPTION

MUNSTER HIGH SCHOOL



Tract 1: A part of the South half of the Southwest quarter of Section 19, Township 36 North, Range 9 West of the Second Principal Meridian in the Town of Munster, Lake County, Indiana, described as follows: Commencing at a point on the South line of said Section 19 which is 128.04 feet West of the North and South center line of said Southwest quarter of Section 19 and running thence North along a line which is parallel with and 128.04 feet West of said North and South center line of the Southwest quarter of Section 19 a distance of 496.83 feet; thence East a distance of 41.38 feet on a line parallel with The South line of said Section 19; thence 90 degrees South a distance of 40.25 feet; thence 90 degrees East a distance of 135.00 feet; thence 90 degrees North a distance of 40.25 feet; thence 90 degrees West a distance of 135.00 feet; to the point of beginning, containing 5,434 square feet, 0.125 acres more or less.

Tract 2: A part of the South half of the Southwest quarter of Section 19, Township 36 North, Range 9 West of the Second Principal Meridian in the Town of Munster, Lake County, Indiana described as follows: Commencing at a point on the South line of said Section 19 which is 128.04 feet West of the North and South center line of said Southwest quarter of Section 19 and running thence North along a line which is parallel with and 128.04 feet West of said North and South center line of the Southwest quarter of Section 19 a distance of 757.0 feet; thence East a distance of 622.43 feet on a line parallel with the South line of said Section 19; thence 90 degrees South a distance of 79.67 feet to the point of beginning of this description; thence 90 degrees West a distance of 72.50 feet; thence 90 degrees South a distance of 38.25 feet; thence 90 degrees East a distance of 72.50 feet; thence 90 degrees North a distance of 38.25 feet to the point of beginning of this description, containing 2,773 square feet, 0.064 acres more or less.

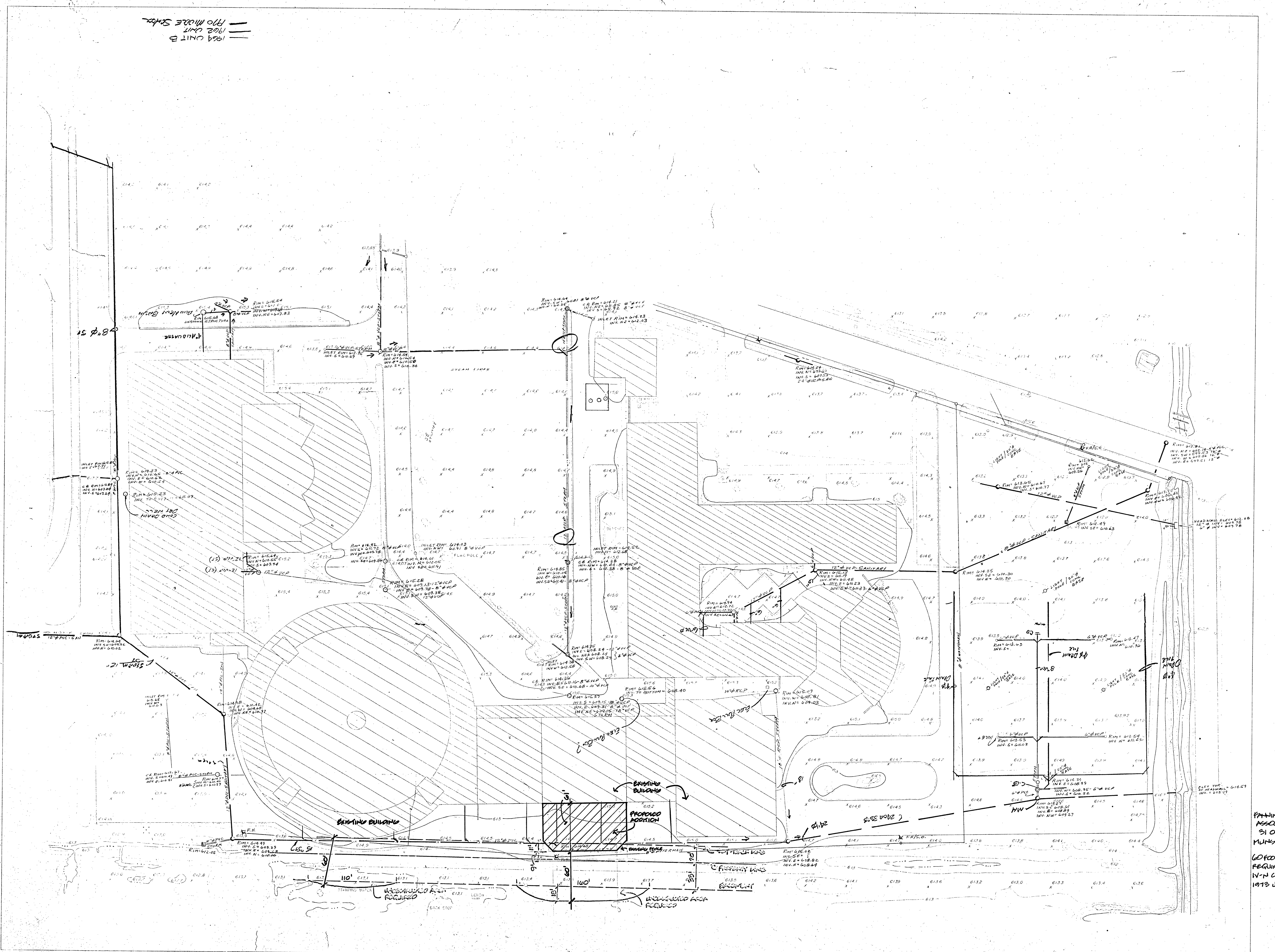
Tract 3: A part of the South half of the Southwest quarter of Section 19, Township 36 North, Range 9 West of the Second Principal Meridian in the Town of Munster, Lake County, Indiana described as follows: Beginning at a point on the South line of said Section 19 which is 128.04 feet West of the North and South center line of said Southwest quarter of Section 19 and running thence North along a line which is parallel with and 128.04 feet West of said North and South center line of the Southwest quarter of Section 19 a distance of 1285.51 feet; to the point of beginning of this description thence East a distance of 616.42 feet on a line parallel with the South line of said Section 19; thence 90 degrees South a distance of 169.00 feet; thence 90 degrees West a distance of 25.00 feet; thence 90 degrees South a distance of 40.65 feet; thence 90 degrees East a distance of 114.33 feet; thence 90 degrees North a distance of 69.42 feet; thence 90 degrees East a distance of 35.00 feet; thence 90 degrees North a distance of 69.56 feet; thence 90 degrees East a distance of 35.00 feet; thence 90 degrees North a distance of 70.67 feet; thence 90 degrees West a distance of 159.33 feet to the point of beginning of this description, containing 27,125 square feet, 0.62 acres more or less.

Tract 4: A part of the South half of the Southwest quarter of Section 19, Township 36 North, Range 9 West of the Second Principal Meridian in the Town of Munster, Lake County, Indiana described as follows: Commencing at the Southwest corner of said Section 19; thence North 88 degrees 44 minutes 34 seconds along the South line of said Section 19, a distance of 986.80 feet said point being 128.04 feet West of the North South centerline of said Southwest quarter; thence North 00 degrees 24 minutes 11 seconds West parallel with and 128.04 feet West of the said centerline, a distance of 346.88 feet; thence North 88 degrees 44 minutes 34 seconds East parallel with the said South line, a distance of 348.57 feet to the Southwest corner of an existing building; thence North 01 degree 21 minutes 08 seconds West along an exterior wall line, 27.08 feet to the point of beginning; thence North 01 degree 21 minutes 08 seconds West continuing along said wall line, a distance of 214.08 feet; thence South 88 degrees 38 minutes 52 seconds West along an exterior wall line, a distance of 88.80 feet measured (89.20 deeded); thence South 01 degree 21 minutes 08 seconds East along an exterior wall line, a distance of 23.60 feet measured (24.34 deeded); thence North 88 degrees 38 minutes 52 seconds East along an exterior wall line, a distance of 20.30 feet measured (20.03 deeded); thence South 01 degree 21 minutes 08 seconds East along an exterior wall line, a distance of 97.72 feet measured (97.68 deeded); thence South 46 degrees 21 minutes 08 seconds East, a distance of 12.30 feet measured (12.35 deeded); thence North 43 degrees 38 minutes 52 seconds East along an exterior wall line, a distance of 24.70 feet measured (24.57 deeded) to a point of non-tangency of a curved exterior wall said curve having a radius of 61.32 feet; thence Southerly along said curved exterior wall an arc length of 97.50 feet measured (99.45 deeded) chord bearing South 01 degree 16 minutes 09 seconds East, chord distance 87.55 feet; thence South 46 degrees 21 minutes 08 seconds East 19.70 feet; thence North 88 degrees 44 minutes 34 seconds West a distance of 28.54 feet to the point of beginning, containing 11,554 square feet, 0.265 acres more or less.

JOHN STUART ALLEN
REGISTERED
No.
LS29900011
STATE OF
INDIANA
LAND SURVEYOR

CLIENT: School Town of Munster	DATE: 10-10-2008	MUNSTER HIGH SCHOOL PLAT OF LEGAL DESCRIPTION EXHIBIT "A"	TORRENGA SURVEYING, LLC PROFESSIONAL LAND SURVEYORS 907 RIDGE ROAD, MUNSTER, INDIANA 46321 TEL. NO.: (219) 836-8918 WEBSITE: WWW.TORRENGA.COM
JOB NO: 0607-08 SCALE: N.T.S. DRAWN: JSA			

Z:\S19 T36 R09 St Thomas Moore Church\dwg\0607-08.dwg 1[illegible]/2008 3:28:15 PM CST



FANNING/HOWEY
ASSOCIATES INC.
31 OCT. 78
MUNSTER HIGH SCHOOL

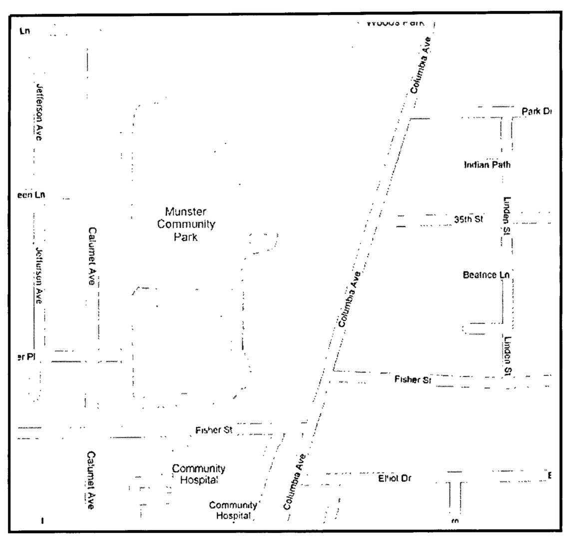
60 FOOT CLEAR AREA
REQUIRED FOR TYPE
IV-N CONSTRUCTION
1973 UBC

ALTA/ACSM LAND TITLE SURVEY

MUNSTER HIGH SCHOOL

Parcel 1: That part of the Southeast Quarter of the Southwest Quarter in Section 19, Township 36 North, Range 9 West of the Second Principal Meridian, in Lake County, Indiana, lying West of the West line of Dyer Road also known as Columbia Avenue excepting there from that part lying within Plat of Dedication recorded January 12, 1996, as Document No. 96002603, Plat Book 79, page 85 and the East 128.04 feet of the Southwest Quarter of the Southwest Quarter in Section 19, Township 36 North, Range 9 West of the Second Principal Meridian, in Lake County, Indiana.

Parcel 2: That part of the Northeast Quarter of the Southwest Quarter in Section 19, Township 36 North, Range 9 West of the Second Principal Meridian, in Lake County, Indiana, more particularly described as follows: Beginning at the intersection of the South line of the Northeast Quarter of the Southwest Quarter and the Westerly line of Columbia Avenue; thence North 18 degrees 10 minutes 10 seconds East on and along the Westerly line of Columbia Avenue, a distance of 208.68 feet; thence North 71 degrees 49 minutes 50 seconds West, 561.34 feet; thence South, parallel with the West line of Columbia Avenue, to the South line of said Quarter Section.



VICINITY MAP

TOTAL LAND AREA SURVEYED = 1,053,746.1 Sq. Ft. / 24.2 ACRES ±

NORTH

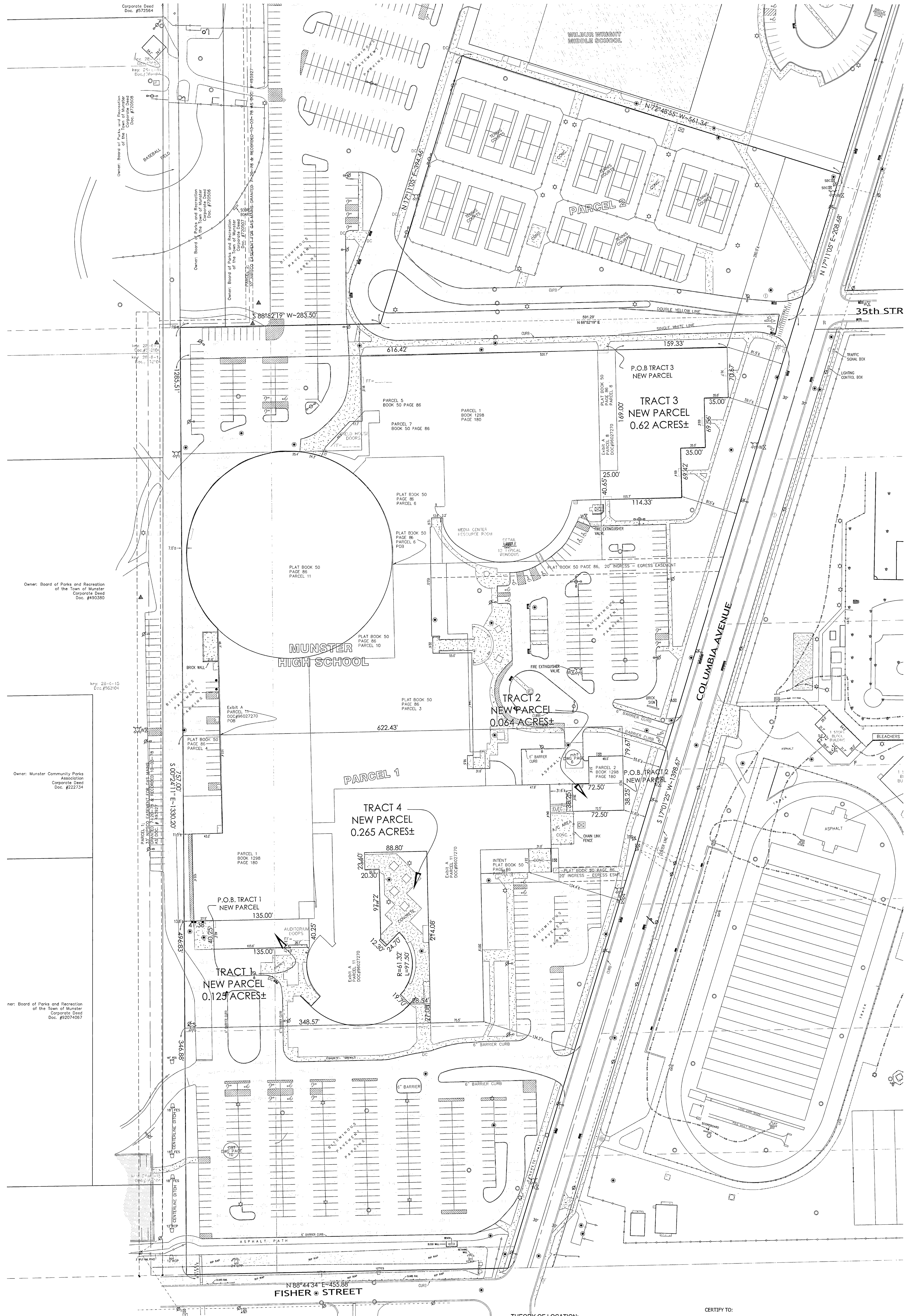
GRAPHIC SCALE

(IN FEET)
1 INCH = 50 FT.

NOTE: This property is located in Flood Zone "C" [Area of minimal flooding]

LEGEND:

- POWER POLE / ANCHOR
- POWER POLE
- LIGHT POLE
- BENCH
- TELEPHONE PEDESTAL
- FLAG POLE
- TELEPHONE VAULT
- B-BOX
- SIGN or BILLBOARD
- STEEL BOLLARD
- SPIGOT
- ELECTRIC TRANSFORMER
- DEPRESSED CURB
- TRAFFIC MANHOLE
- TRAFFIC LIGHT POLE
- TELEPHONE MANHOLE
- SBC BOX
- INDIANA BELL TELEPHONE
- AMERITECH
- WATER VALVE
- FIRE HYDRANT
- PIPELINE MARKER
- END SECTION
- CATCH BASIN/INLET
- CURB DRAIN
- MANHOLE
- GAS VALVE
- FOUND IRON PIPE
- FOUND IRON BAR



THEORY OF LOCATION:

This Survey is based on the locations of called-for and uncalled-for monuments found at or near the corners of the subject parcel, and at or near the corners of adjacent parcels, and on information contained on the Record Plat of______________________

SURVEYOR'S REPORT:

A.) AVAILABILITY OF MONUMENTS:

Uncertainties in Monument locations are noted. Unless otherwise stated, found monuments were undisturbed, in good condition, of unknown origin, and at or near grade.

B.) OCCUPATION AND POSSESSION:

No apparent uncertainties resulted due to occupation or possession lines, unless specifically shown on the plat.

C.) CLARITY OR AMBIGUITY OF RECORD DESCRIPTIONS:

No apparent ambiguity in the record description of the subject parcel

D.) RELATIVE POSITIONAL ACCURACY (due to random errors in measurements):

The survey performed met the requirements of a _________ SURVEY according to title 865 IAC 1.1 - 12 et seq. The allowable relative positional accuracy is not less than _____ feet for set monuments.

CERTIFY TO:

1 ____________________
2 ____________________
3 ____________________
4 ____________________
5 ____________________

STATE OF INDIANA } §
COUNTY OF LAKE }

This is to certify that this map or plat and the survey on which it is based were made in accordance with the "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys," jointly established and adopted by ALTA AND NSPS in 2005, and includes items 1, 2, 3, 4, 5, 6, 7a, 8, 9, 10, 11a and 13 of Table A thereof. Pursuant to the Accuracy Standards as adopted by ALTA, NSPS and in effect on the date of this certification, undersigned further certifies that in my professional opinion, as a land surveyor registered in the State of Indiana, the Relative Positional Accuracy of this survey does not exceed that which is specified therein.

DATE

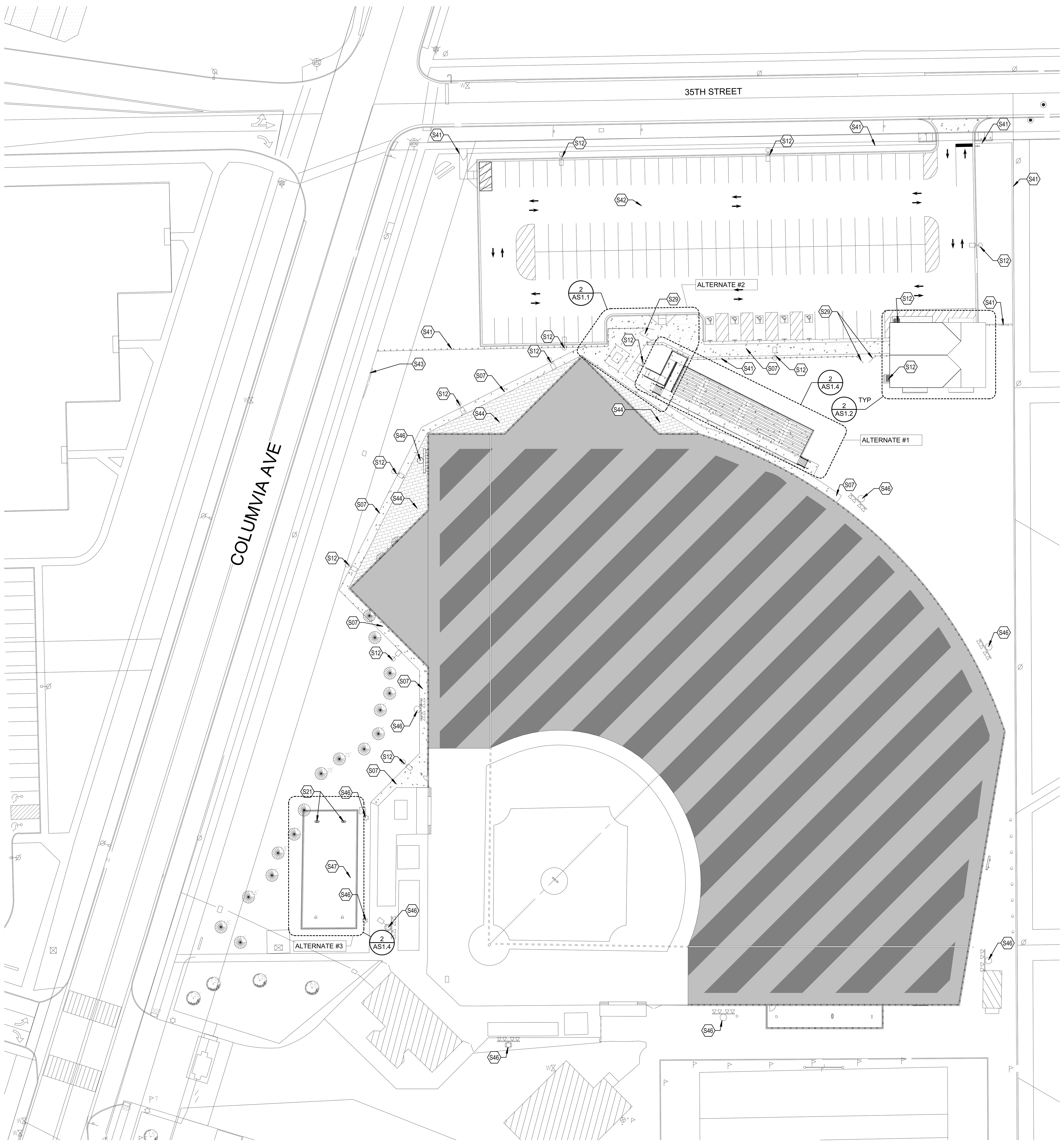
TORRENGA SURVEYING, LLC.

JOHN STUART ALLEN - Registered Land Surveyor No. LS29900011

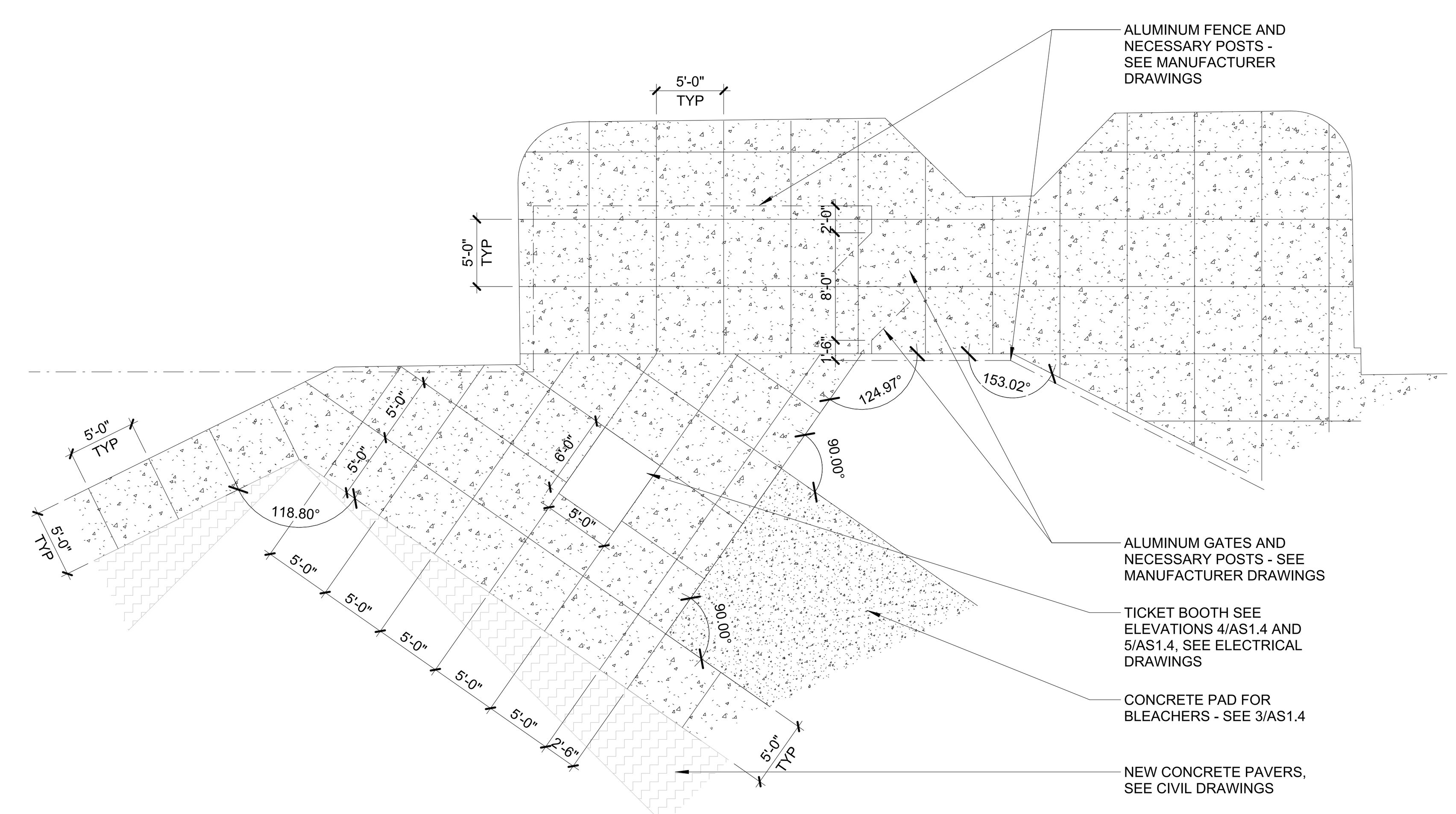
JOHN STUART ALLEN REGISTERED No. LS29900011 STATE OF INDIANA LAND SURVEYOR

SHEET 0 OF 0	CLIENT: School Town of Munster JOB NO: 0607-08 DRAWN: jfe SCALE: 1"=80'	DATE: 11/13/2008	ALTA/ACSM Land Title Survey Munster High School	TORRENGA SURVEYING, LLC PROFESSIONAL LAND SURVEYORS 907 RIDGE ROAD, MUNSTER, INDIANA 46321 TEL. No.: (219) 836-8918 WEBSITE: WWW.TORRENGA.COM
	Z:\S19 T36 R09 St Thomas Moore Church\dwg\0607-08.dwg		11/11/2008 3:28:15 PM CST	

Exhibit B



1 SITE PLAN
1/32" = 1'-0"



2 ENLARGED SITE PLAN
1/8" = 1'-0"

GENERAL SITE PLAN NOTES

1. VERIFY ALL EXISTING CONDITIONS RELATED TO CONSTRUCTION COMPARED TO THE INFORMATION PROVIDED IN THE CONSTRUCTION DOCUMENTS. IF DISCREPANCIES OR CONFLICTS BETWEEN THE TWO ARE DISCOVERED, NOTIFY THE ARCHITECT FOR CLARIFICATION PRIOR TO SUBMITTING A BID AND/ OR PERFORMING WORK.
2. COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES.
3. COORDINATE ALL TRADES PRIOR TO PERFORMING WORK INCLUDING BUT NOT LIMITED TO MECHANICAL, PLUMBING, ELECTRICAL, AND STRUCTURAL.
4. OTHER WORK MAY BE PERFORMED UNDER A SEPARATE CONTRACT. COORDINATE WITH ALL OTHER CONTRACTED TRADES SO AS TO NOT INTERFERE WITH THEIR WORK.
5. STORE MATERIALS IN A MANNER NOT TO OVERSTRESS, OVERLOAD, OR OTHERWISE PUT AN INAPPROPRIATE LOAD ON ANY STRUCTURE DURING CONSTRUCTION.
6. SCHEDULE AND COORDINATE ALL SHUT-DOWNS OF EXISTING UTILITIES WITH THE OWNER PRIOR TO SHUT DOWN. PREPARE ALL NECESSARY WORK PRIOR TO SHUT-DOWNS. IF AT ALL POSSIBLE, COMBINE UTILITY SHUT-DOWNS TO MINIMIZE THE IMPACT OF THE OWNER'S OPERATION OF EXISTING FACILITIES. SEE SPECIFICATIONS FOR ANY FURTHER DETAILS.
7. LOCATE ALL MATERIALS, EQUIPMENT, TRUCKS, DUMPSTERS, AND CONSTRUCTION FACILITIES IN AREAS APPROVED BY OWNER. SPECIAL CARE SHALL BE TAKEN TO PREVENT DAMAGE TO EXISTING BUILDING STRUCTURE, LANDSCAPING, AND PAVED AREAS. PROVIDE WOOD PLANK PROTECTION BELOW ALL DUMPSTERS AND OTHER HEAVY EQUIPMENT. ALL DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED AT NO EXPENSE TO THE OWNER.
8. PROTECT OR SAFELY STORE ALL BUILDING AND SITE ELEMENTS THAT ARE SCHEDULED TO REMAIN OR BE REUSED TO AVOID DAMAGE DURING THE CONSTRUCTION PROCESS. DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED AT NO EXPENSE TO THE OWNER.
9. REPAIR ALL AREAS DAMAGED FROM THE CONSTRUCTION WORK. PATCH AND/OR PROVIDE NEW FINISHES AT ALL DAMAGED AREAS WITH MATERIALS AND FINISHES TO MATCH THE EXISTING CONDITIONS. NEW MATERIALS AND FINISHES SHALL BE BROUGHT TO A STOPPING POINT TO MINIMIZE DETECTION OF REPAIR, VERIFY LOCATIONS WITH ARCHITECT.
10. ALL WORK OUTLINED IN THE PROJECT SCOPE THAT EXTENDS INTO AREAS LABELED "NIC" SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK TO INSURE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
11. TAKE SPECIAL CARE NOT TO DAMAGE OR INTERRUPT THE EXISTING SERVICES INCLUDING, BUT NOT LIMITED TO, ELECTRICAL WIRING, PNEUMATIC CONTROL LINES, SOUND SYSTEM WIRING, FIRE ALARM WIRING, COMPUTER/NETWORK CABLING, AND TEMPERATURE CONTROLS. THESE ITEMS AND THE LIKE ARE FULLY OPERATIONAL. VERIFY THE CONDITION AND OPERATION OF EACH SYSTEM BEFORE, DURING, AND AFTER CONSTRUCTION. SYSTEMS DAMAGED DURING CONSTRUCTION SHALL BE PLACED BACK INTO SERVICE PROMPTLY AND AT NO ADDITIONAL COST TO THE OWNER. REFER TO THE MEP DRAWINGS FOR FURTHER INFORMATION.
12. DO NOT SCALE THE DRAWINGS TO DETERMINE A DIMENSION.
13. DETAILS ARE TYPICAL AND ARE NOT TO BE CONSTRUED AS LIMITED TO THOSE AREAS SPECIFICALLY INDICATED. IF IN QUESTION, VERIFY APPLICATION WITH ARCHITECT PRIOR TO SUBMITTING A BID AND/ OR PERFORMING WORK.
14. ALL WORK THAT IS TO TAKE PLACE WHILE THE BUILDING IS OCCUPIED OR IN USE SHALL BE KEPT ISOLATED, SAFE, AND SECURE FROM NON-CONSTRUCTION PERSONNEL. PROVIDE ANY BARRIERS OR SIGNS REQUIRED TO ISOLATE THE CONSTRUCTION ZONE.

SITE PLAN LEGEND

NEW CONCRETE - REFER TO CIVIL DRAWINGS

CONCRETE PAVERS - REFER TO CIVIL DRAWINGS

-x- -x- -x- NEW 6'-0" HIGH FENCE WITH GATES, SEE ELEVATION 4/AS1.3

-o- -o- -o- EXISTING CHAIN LINK FENCE TO REMAIN

ACCESSIBLE ROUTE GENERAL NOTES

1. ALL ACCESSIBLE ROUTES SHALL COMPLY WITH APPLICABLE LOCAL CODES: AMERICAN WITH DISABILITIES ACT OF 1990, IBC 2012, AND ACCESSIBLE & USABLE BUILDINGS AND FACILITIES 2005.
2. IF CODES CONFLICT CONTRACTOR SHALL INSTALL THE MORE STRINGENT REQUIREMENTS.
3. PATHS SHALL NOT HAVE A RUNNING SLOPE GREATER THAN 1:20 OR A CROSS SLOPE GREATER THAN 1:50.
4. REFER TO CIVIL DRAWINGS FOR GRADING AND ELEVATIONS. IF CIVIL GRADES CONFLICT WITH ACCESSIBLE ROUTE REQUIREMENTS NOTIFY ARCHITECT IMMEDIATELY.
5. CONTRACTOR SHALL BE REQUIRED TO CONFIRM AS BUILT ACCESSIBLE ROUTE COMPLIES WITH REQUIREMENTS BY A CERTIFIED SURVEY, AND SHALL CORRECT AREAS THAT DO NOT COMPLY AT NO ADDITIONAL COST TO THE OWNER.

X	SITE PLAN KEYNOTES
S07	NEW SIDEWALK. SEE CIVIL DRAWINGS
S12	NEW LIGHT POLE - SEE ELEC. DWGS
S21	FUNRISH AND INSTALL STONE BASE AND STONE PITICHING MOUND PER REGULATIONS
S29	NEW FENCE WITH DOUBLE GATE - SEE DETAIL 4/AS1.3
S41	NEW FENCE - SEE DETAIL 4/AS1.3
S42	NEW ASPHALT PARKING LOT AND LIGHTING SEE CIVIL AND ELECTRICAL DRAWINGS
S43	EXISTING FENCE TO REMAIN
S44	NEW CONCRETE PAVERS, SEE CIVIL DRAWINGS
S46	EXISTING LIGHT POLE TO REMAIN
S47	NEW BATTING CAGES AND CONCRETE CURB

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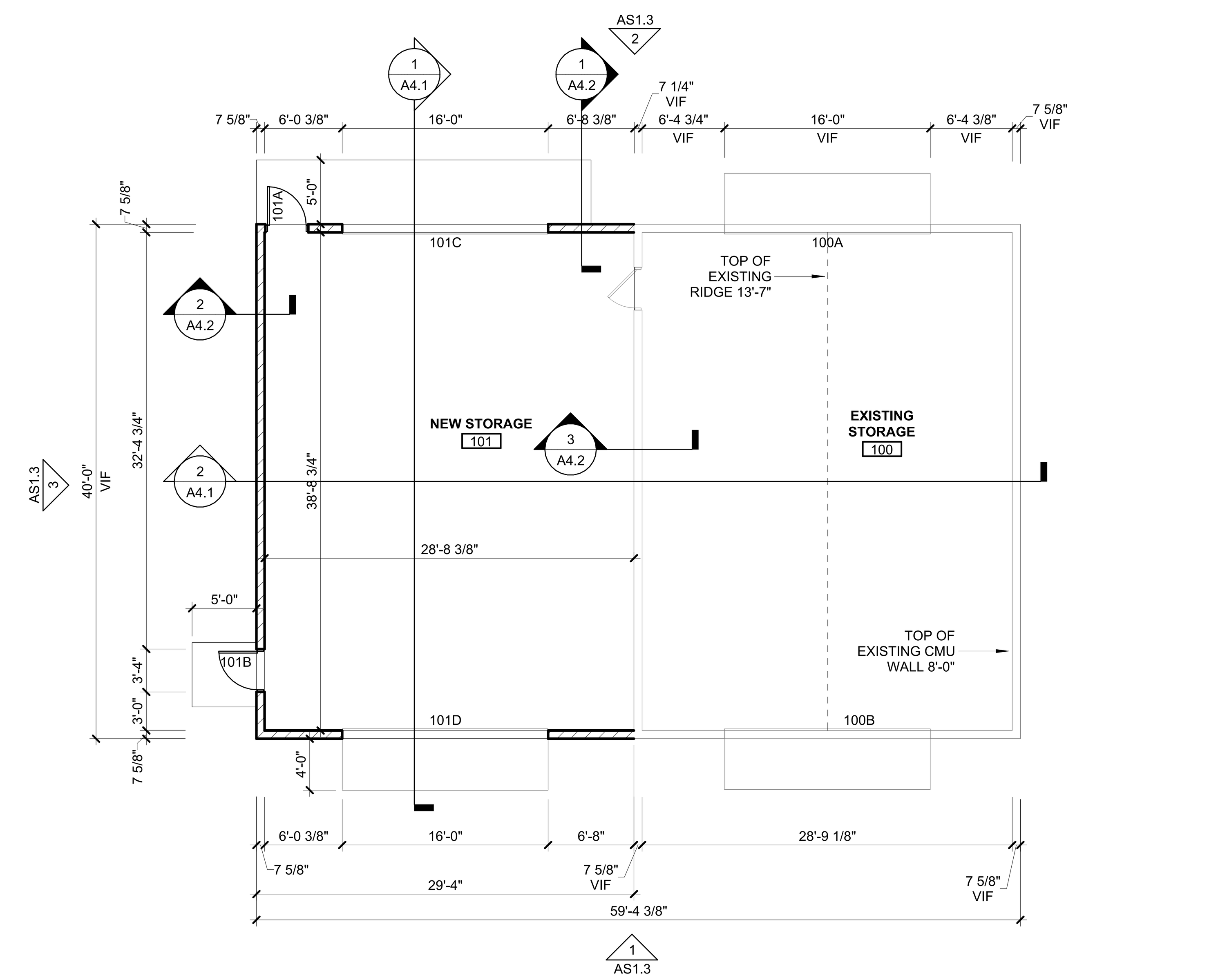
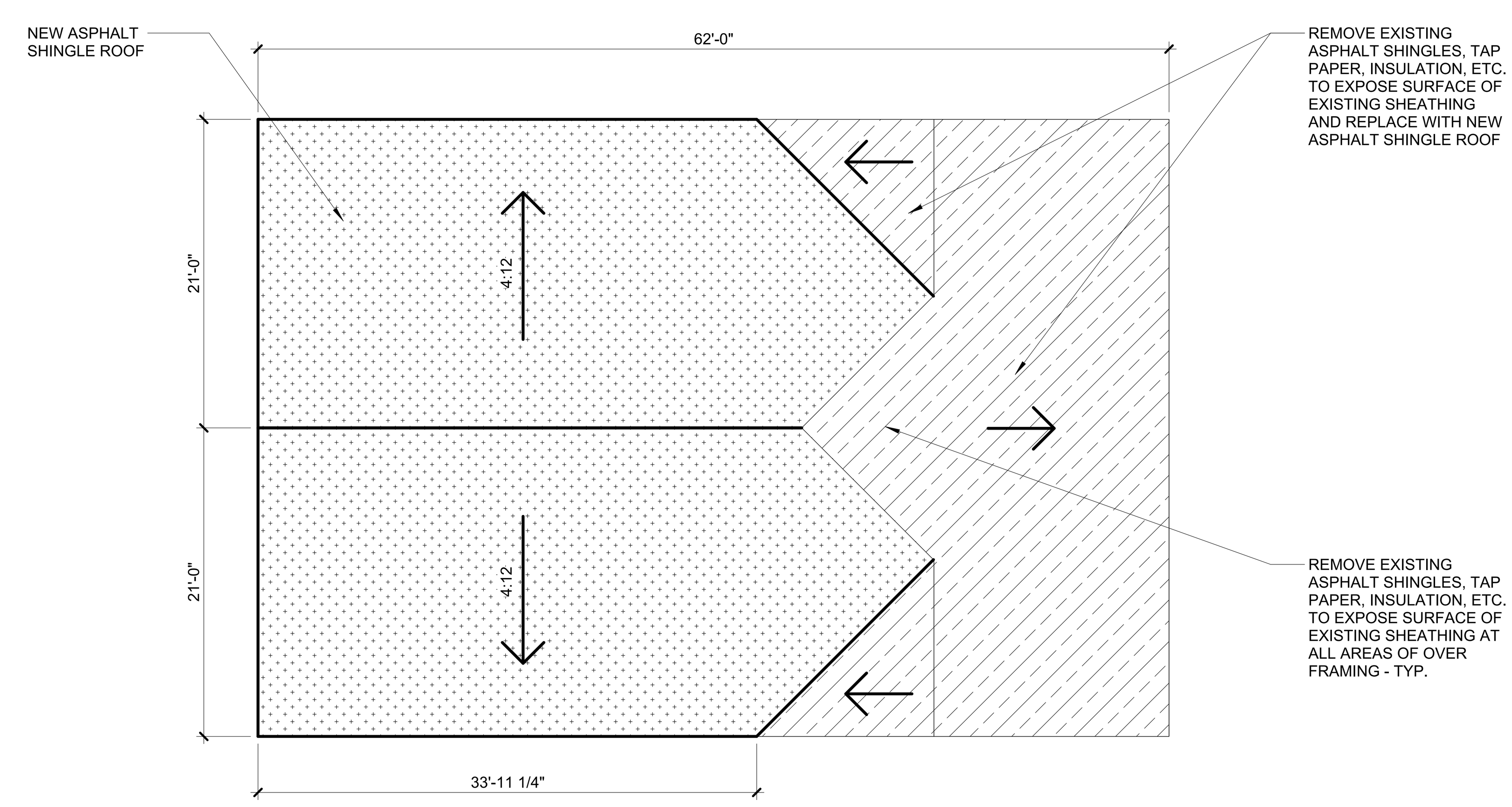
SCHOOL TOWN OF MUNSTER
MUNSTER HIGH SCHOOL - NEW PARKING LOT AND STORAGE BUILDING ADDITION
8823 COLUMBIA AVE. MUNSTER, IN 46321

DATE:	DESCRIPTION:
02.20.2025	ISSUED FOR SITE REVIEW

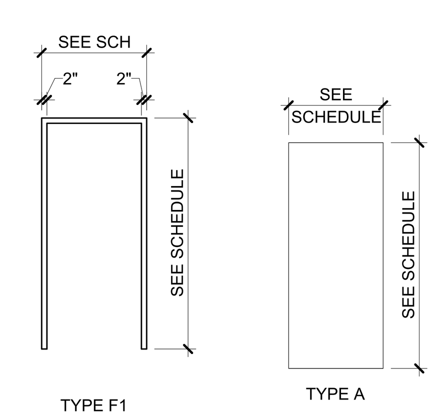
PROJECT # 2024.104
DATE: MARCH 10, 2025
SHEET TITLE: SITE PLAN
SHEET: AS1.1



STORAGE BUILDING FIRST FLOOR PLAN
1/8" = 1'-0"



STORAGE BUILDING ROOF PLAN
1/8" = 1'-0"



HOLLOW METAL DOOR & FRAME SCHEDULE															
	FIRE RATING (HR)	DOOR					FRAME					DETAILS			
DOOR #		TYPE	PANEL	MTRL	WIDTH	HEIGHT	TYPE	MTRL	WIDTH	HEIGHT	DEPTH	HEAD	JAMB	SILL	REMARKS
101A		A	SGL	HM	3' - 0"	7' - 2"	F1	HM	3' - 4"	7' - 4"	5 3/4"				
101B		A	SGL	HM	3' - 0"	7' - 2"	F1	HM	3' - 4"	7' - 4"	5 3/4"				
101C					16' - 0"	8' - 0"									
101D					16' - 0"	8' - 0"									
TB1		B	SGL	HM	3' - 0"	7' - 2"	F1	HM	3' - 4"	7' - 4"	5 3/4"				

GENERAL FLOOR PLAN NOTES

1. SEE G SHEETS FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, TYPICAL MARKERBOARD AND TACKBOARD INSTALLATION HEIGHTS AND MOUNTING HEIGHTS OF BUILDING ELEMENTS AND EQUIPMENT CODE REFERENCE PLANS AND FIRE RATED ASSEMBLY LOCATIONS.
2. SEE SHEET AX.X FOR WALL TYPE DETAILS.
3. CONSTRUCT ALL NEW WALLS TO UNDERSIDE OF THE DECK UNO
4. ALL NEW WALL PENETRATIONS MUST BE SEALED AGAINST THE PASSAGE OF SMOKE. ALL NEW WALL PENETRATIONS THROUGH A FIRE RATED WALLS MUST BE SEALED TO MAINTAIN THE SPECIFIED RATING.
5. PROVIDE CAULK ALONG ENTIRE PERIMETER OF JOINT BETWEEN STEEL LINTELS AND MASONRY, TYPICAL AT ALL NEW INTERIOR STEEL LINTELS.
6. ALL EXPOSED OUTSIDE CORNERS OF NEW CMU WALLS AND EXPOSED DOOR AND WINDOW JAMBS ARE TO BE BULLNOSE BLOCK UNO.
7. ALL NEW INTERIOR MASONRY WALLS TO HAVE CONTROL JOINTS AT 25'-0" OC MAX, SEE SHEET A6._.
8. ALL HINGE SIDE DOOR RETURNS TO BE 4" UNLESS NOTED OTHERWISE.
9. PROVIDE WOOD BLOCKING AS REQUIRED AT ALL FLAT PANEL DISPLAYS, PROJECTORS, TOILET ACCESSORIES, SHELVING STANDARDS, PLUMBING FIXTURES, AND SIMILAR ITEMS MOUNTED TO NEW METAL STUD PARTITIONS.
10. NEW MASONRY TO BE TOOTHED-IN WHERE INTERSECTING EXISTING MASONRY LOCATIONS. BONDING AND COURSING SHALL MATCH EXISTING. WHERE DEMO 'D WALLS MEET EXISTING WALLS TO REMAIN, PATCH EXISTING WALL TO MATCH ADJACENT MATERIAL.
11. PATCH ALL AREAS DISTURBED BY CONSTRUCTION WHETHER OR NOT INDICATED ON PLANS. PATCH OR PROVIDE NEW MATERIALS TO MATCH EXISTING ADJACENT CONDITIONS. NEW MATERIALS AND FINISHES SHALL BE BROUGHT TO A STOPPING POINT TO MINIMIZE DETECTION OF REPAIR.
12. PATCH ALL HOLES WHERE ITEMS HAVE BEEN REMOVED FROM WALLS. INFILL ALL FORMER OPENINGS AFTER REMOVAL OF EXISTING DUCTS, PIPING, CONDUIT, ETC. TO MATCH EXISTING ADJACENT CONSTRUCTION.
13. ALL ROOM NAMES AND NUMBERS INDICATED ON THE DRAWINGS ARE FOR REFERENCE ONLY. VERIFY WITH ARCHITECT THE FINAL NAMES AND NUMBERS TO BE USED FOR THE PROGRAMMING OF THE FIRE ALARM SYSTEM, BUILDING AUTOMATION SYTEMS, TECHNOLOGY SYSTEMS, ETC.
14. FURNITURE SHOWN DASHED IS FOR REFERENCE ONLY. THESE ITEMS WILL BE PROVIDED BY THE OWNER, OR UNDER A SEPARATE CONTRACT, BUT MAY REQUIRE SOME ELECTRICAL CONNECTION AS INDICATED ON THE ELECTRICAL AND TECHNOLOGY DRAWINGS. FINAL SIZE AND LOCATION OF FURNITURE SHALL BE COORDINATED IN FIELD.
15. NEW INFILL WALLS TO BE FLUSH AND ALIGN WITH EXISTING CONSTRUCTION UNLESS NOTED OTHERWISE.

GENERAL ROOF PLAN NOTES

1. SEE G SHEETS FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. FIELD VERIFY LOCATION AND QUANTITY OF ALL EXISTING ROOF EQUIPMENT, DRAINS, PENETRATIONS, SADDLES, AND SLOPES.
3. WHERE EXISTING ROOF DRAINS ARE TO REMAIN IN AREAS OF NEW WORK, REPLACE EXISTING STRAINER WITH NEW CAST IRON STRAINER TO MATCH EXISTING RING. SEE DETAIL **X/XX.X**
4. ALL ROOF PENETRATIONS MAY NOT BE SHOWN ON ROOF PLAN. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATIONS OF NEW EQUIPMENT AND PENETRATIONS.
5. TAKE SPECIAL CARE NOT TO OVERLOAD ANY ROOFS WITH ROOFING MATERIAL, EQUIPMENT, DEMOLITION DEBRIS, ETC. DO NOT LOAD ROOFS BEYOND NORMAL DESIGN LIVE LOADS AND PROTECT DECK STRUCTURE FROM DAMAGE.
6. LEAVE THE WORK IN A WATERTIGHT CONDITION AT THE END OF EACH WORK DAY AND EXPOSE ONLY THAT AMOUNT OF ROOF THAT CAN BE PROTECTED IN THE EVENT OF AN EMERGENCY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE BUILDING AND ITS CONTENTS AS A RESULT OF WATER DAMAGE.
7. RAISE/EXTEND/MODIFY EXISTING PLUMBING VENTS, EXHAUST EQUIPMENT, LADDERS, ETC. TO REMAIN AS REQUIRED TO FUNCTION PROPERLY WITH NEW ROOF SYSTEM.
8. PROVIDE BUILT-UP CRIKETS ON HIGH SIDE OF ALL EQUIPMENT ON ROOF.
9. PROVIDE TAPERED EDGE STRIPS AS REQUIRED FOR SMOOTH TRANSITION BETWEEN UNEVEN ROOF AREAS.
10. PROVIDE FLASHING AT LEAST 12" HIGH ON ALL PARAPETS, EXPANSION JOINTS AND CURBS UNLESS NOTED OTHERWISE.
11. PROVIDE ROOF TRAFFIC PADS AROUND ALL EQUIPMENT AND ROOF ACCESS POINTS, INCLUDING LADDERS, AT ALL NEW ROOF AREAS.
12. ALL NEW TREATED WOOD BLOCKING IS TO BE FASTENED AT 32" (+/-) OC MAX WITH STAINLESS STEEL FASTENERS.
13. ALL NEW ROOFS TO HAVE 1/4" PER FOOT SLOPE TO ROOF DRAINS UNLESS NOTED OTHERWISE
14. RAISE ALL EXISTING CURBS WITH NEW PRESSURE TREATED 2x2'S AS REQUIRED TO BE MINIMUM 12" ABOVE NEW ROOF SYSTEM. WHERE INDICATED, REMOVE AND INSTALL NEW CURBS. - SEE DETAIL **X/XX.X** FOR ROOF CURB INFILL.
15. CONTRACTOR TO DISCONNECT AND REINSTALL ALL ELECTRICAL AND MECHANICAL EQUIPMENT AS REQUIRED ON ALL EXISTING CURBS BEING RAISED DUE TO THICKNESS OF NEW ROOF SYSTEM AND WHERE REQUIRED TO INSTALL NEW FLASHING. RAISE EXISTING PIPE & ELECTRICAL PORTALS ON NEW ROOF SYSTEM AS REQUIRED.
16. EXTEND SOIL STACKS WITH CAST IRON EXTENSION INSERTS TO BE MINIMUM 12" ABOVE NEW ROOF SYSTEM.
17. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF ALL PIPE SUPPORTS.
18. PROVIDE PRECAST CONCRETE SPLASH BLOCKS AT DOWNSPOUTS DRAINING ONTO LOWER ROOF ELEVATIONS.
19. COORDINATE LOCATIONS AND TYPE OF SUPPORTS REQUIRED FOR MECHANICAL CURBS AND PIPING/CONDUIT SUPPORTS. SEE MEP DRAWINGS FOR EQUIPMENT.
20. ALL FASCIA, ROOF COPINGS, GRAVEL STOPS, ETC. ARE TO BE REPLACED WITH NEW AT ALL NEW ROOF AREAS (UNO) - SEE DETAILS FOR ADDITIONAL INFORMATION

ROOF PLAN LEGEND

HP	HIGH POINT
LP	LOW POINT
→	SLOPE OF ROOF/STRUCTURE

ROOF ASSEMBLY TYPES

ROOF TYPE 1 - ASPHALT SHINGLES (COLOR AS SELECTED BY ARCH. FROM MFR FULL LINE) OVER #15 FELT PAPER/ 40 MIL SELF ADHERING OVER ICE AND WATER SHIELD ON ENTIRE ROOF OVER 5/8" PRESERVATIVE TREATED PLYWOOD SHEATHING - (SLOPED WOOD STRUCTURE TO MATCH EXISTING TOP RIDGE)

ROOF TYPE 2 - ASPHALT SHINGLES (COLOR AS SELECTED BY ARCH. FROM MFR FULL LINE) OVER #15 FELT PAPER/ 40 MIL SELF ADHERING OVER ICE AND WATER SHIELD ON ENTIRE ROOF OVER EXISTING SUBSTRATE AND STRUCTURE

GENERAL DOOR & FRAME NOTES

1. ALL DOORS TO BE 1 3/4" THICK UNLESS NOTED OTHERWISE.
2. ALL GLASS IN EXTERIOR AND INTERIOR VESTIBULE DOORS AND FRAMES TO BE 1" THICK INSULATED TEMPERED GLASS UNLESS NOTED OTHERWISE.
3. UNLESS NOTED OTHERWISE, ALL GLASS IN INTERIOR NON-FIRE-RATED DOORS AND FRAMES TO BE TEMPERED GLASS.
4. ALL GLASS IN INTERIOR RATED DOORS AND FRAMES TO BE UL FIRE-RATED GLASS UNLESS NOTED OTHERWISE.
5. INSTALL GLAZING STOPS ON THE SECURE SIDE OF FRAME.
6. REFER TO SPECIFICATIONS FOR HARDWARE SETS.

TYPICAL MOUNTING HEIGHTS FOR DOOR HARDWARE

1. MORTISE OR CYLINDRICAL LOCKSETS: 38" FROM FINISH FLOOR TO CENTER OF LEVER HANDLE.
2. PANIC EXIT DEVICE: 40" FROM FINISH FLOOR TO CENTER OF PUSH PAD.
3. DOOR PULL HANDLE: 42" FROM FINISH FLOOR TO CENTER OF PULL HANDLE.
4. DEADBOLT LOCK: 44" FROM FINISH FLOOR TO CENTER OF DEADBOLT.
5. PUSH PLATE: 44" FROM FINISH FLOOR TO CENTER OF PLATE.
6. PUSH BAR: 44" FINISH FLOOR TO CENTER OF BAR.

FOR NEW DOORS IN EXISTING FRAMES

1. VERIFY IN FIELD ALL EXISTING FRAME OPENINGS PRIOR TO FABRICATION. DIMENSIONS SHOWN IN SCHEDLE ARE NOT EXACT AND ARE SHOWN FOR REFERENCE ONLY.
2. AT EXISTING HOLLOW METAL FRAMES TO BE REUSED, PATCH ALL HOLES WITH BONDO, SAND, AND REPAINT ENTIRE FRAME.
3. AT ALL LOCATIONS WHERE EXISTING FRAMES REMAIN AND CYLINDRICAL LOCKS ARE BEING REPLACED WITH MORTISE LOCKS, CUT-IN NEW STRIKE PLATES INTO EXISTING FRAMES. PROVIDE ASSA ABLOY 152 UNIVERSAL MOUNTING TABS FOR MOUNTING OF NEW STRIKE PLATE. BONDO EXPOSED COUNTERSUNK SCREW LOCATIONS, SAND AND REPAINT ENTIRE FRAME.
4. AT ALL EXISTING DOOR FRAMES, REMOVE EXISTING DOOR SILENCERS PRIOR TO PAINTING FRAMES AND REPLACE WITH NEW RUBBER SILENCERS PRIOR TO HANGING NEW DOORS AND CUTTING-IN OF NEW STRIKE PLATES TO PROVIDE FOR PROPER ALIGNMENT OF DOOR LATCH.

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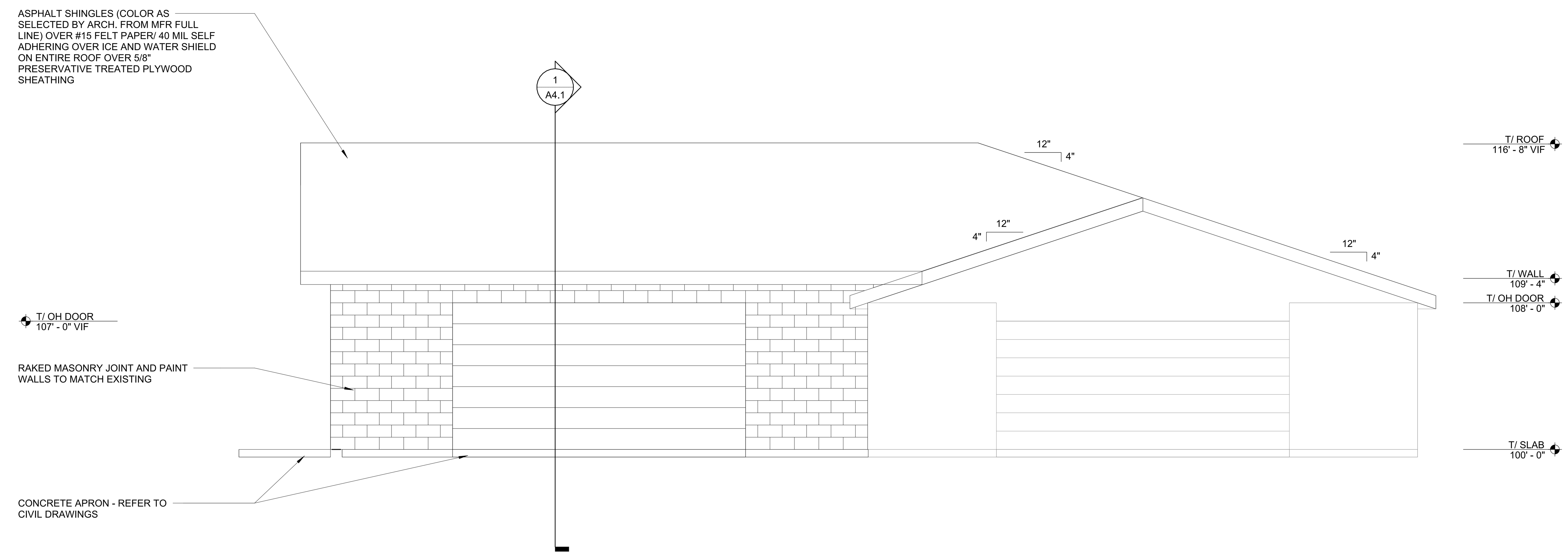
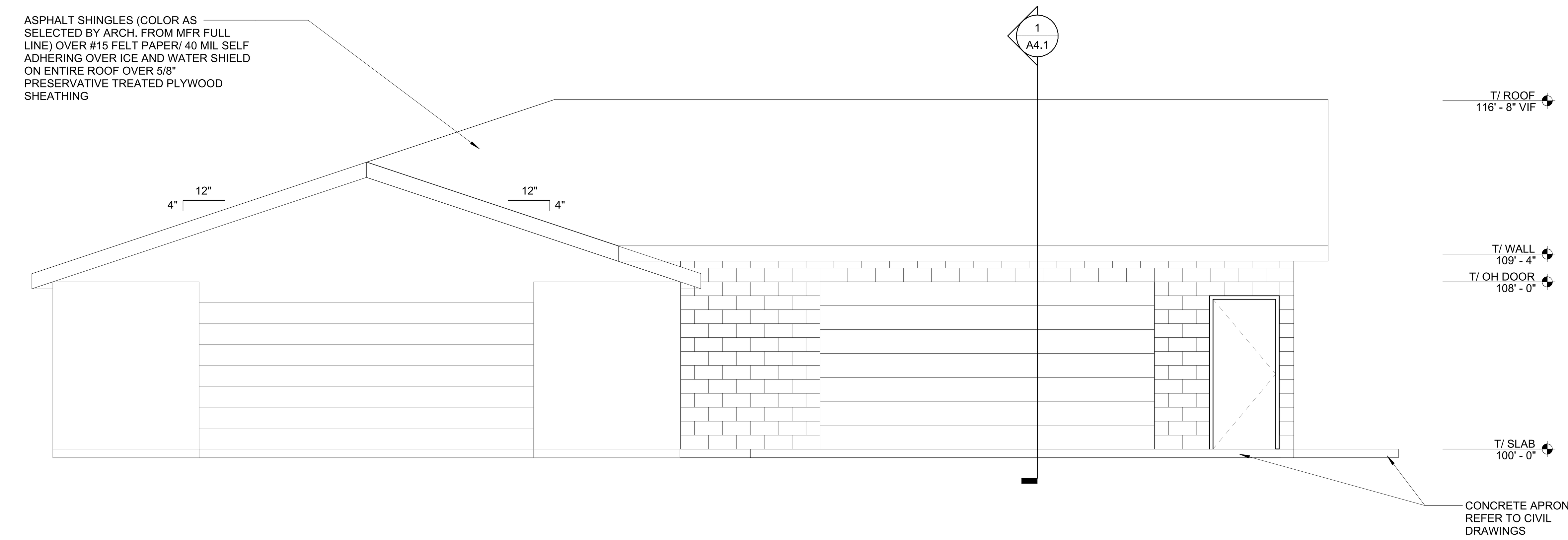
SCHOOL TOWN OF MUNSTER
MUNSTER HIGH SCHOOL - NEW PARKING LOT AND STORAGE BUILDING ADDITION
8823 COLUMBIA AVE. MUNSTER, IN 46321

DATE:	DESCRIPTION:
02.20.2025	ISSUED FOR SITE REVIEW

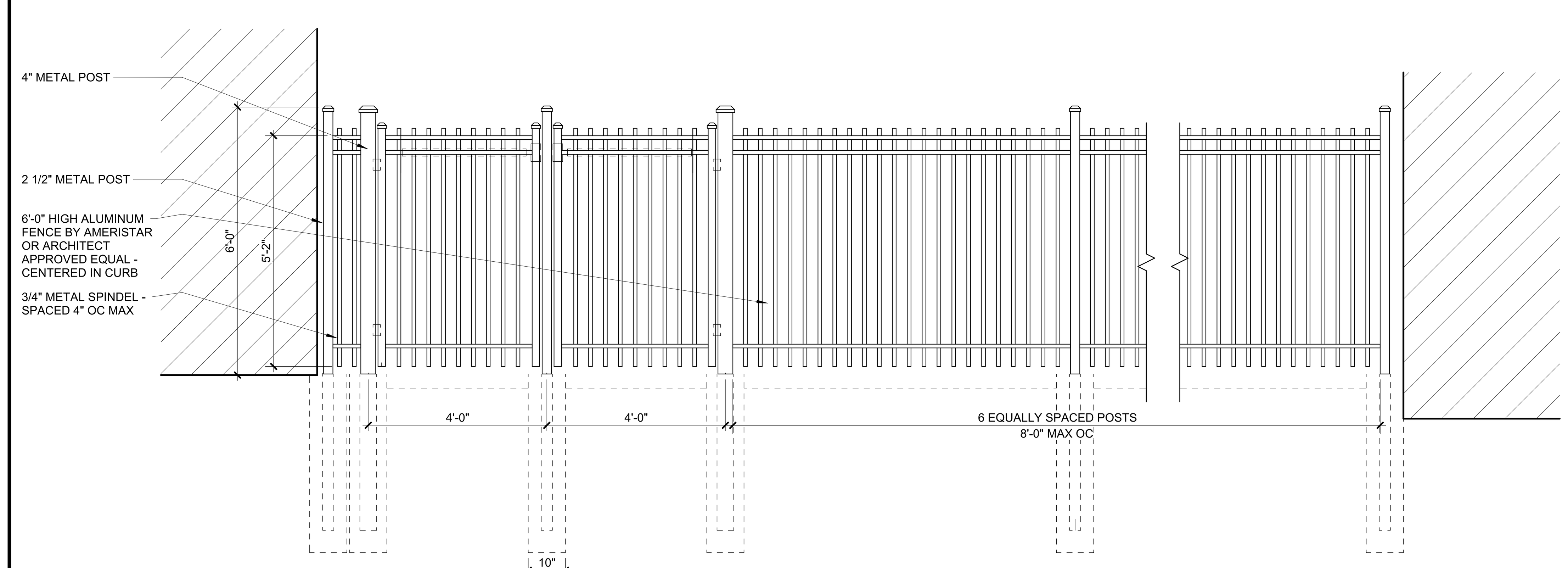
PROJECT # 2024.104
DATE: MARCH 10, 2025
SHEET TITLE: ENLARGED PLANS & DETAILS
SHEET: AS1.2



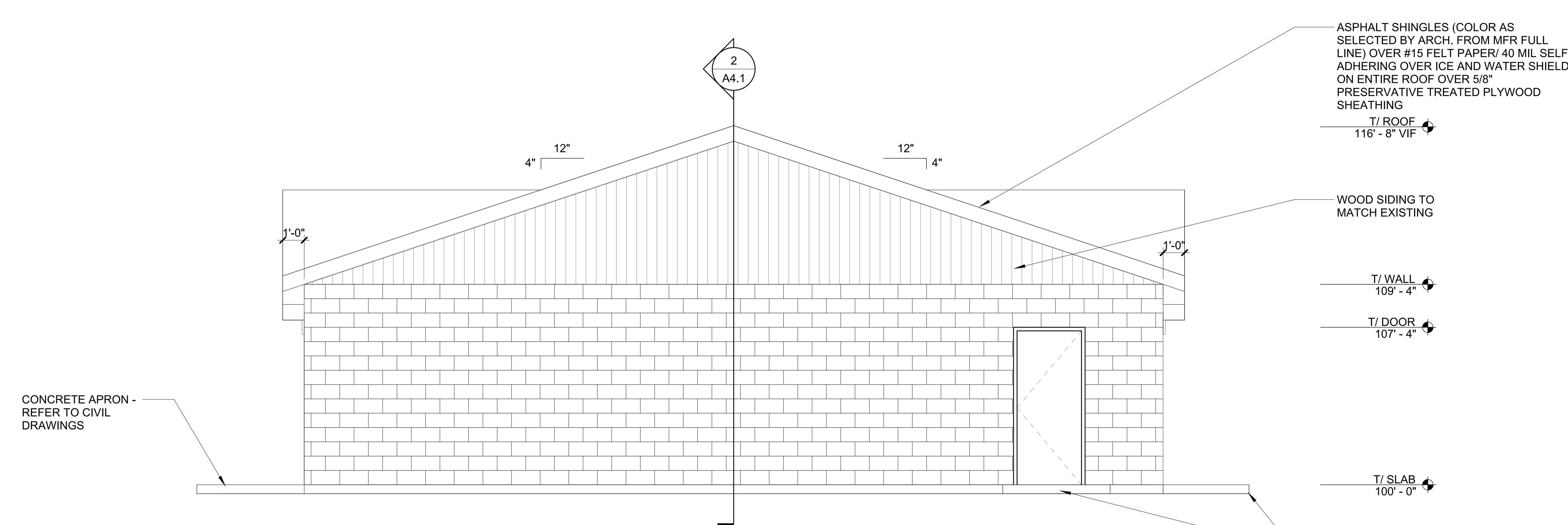
1 SOUTH STORAGE ELEVATION
1/4" = 1'-0"



2 NORTH STORAGE ELEVATION
1/4" = 1'-0"



4 METAL GATE AND FENCE ELEVATION
1/2" = 1'-0"



3 WEST STORAGE ELEVATION
1/4" = 1'-0"

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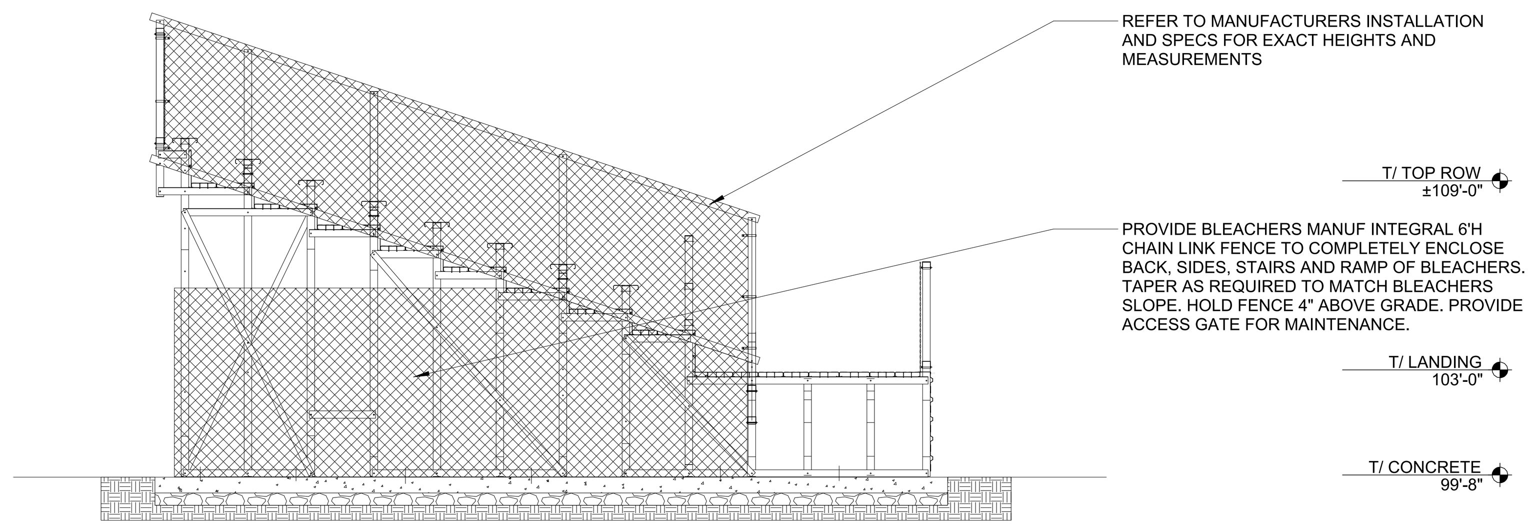
SCHOOL TOWN OF MUNSTER
MUNSTER HIGH SCHOOL - NEW PARKING LOT AND STORAGE BUILDING ADDITION
8823 COLUMBIA AVE. MUNSTER, IN 46321

SCHOOL TOWN MUNSTER

DATE:	DESCRIPTION:

PROJECT #: 2024.104
DATE: MARCH 10, 2025
SHEET TITLE:
STORAGE BUILDING ELEVATIONS
SHEET:
AS1.3

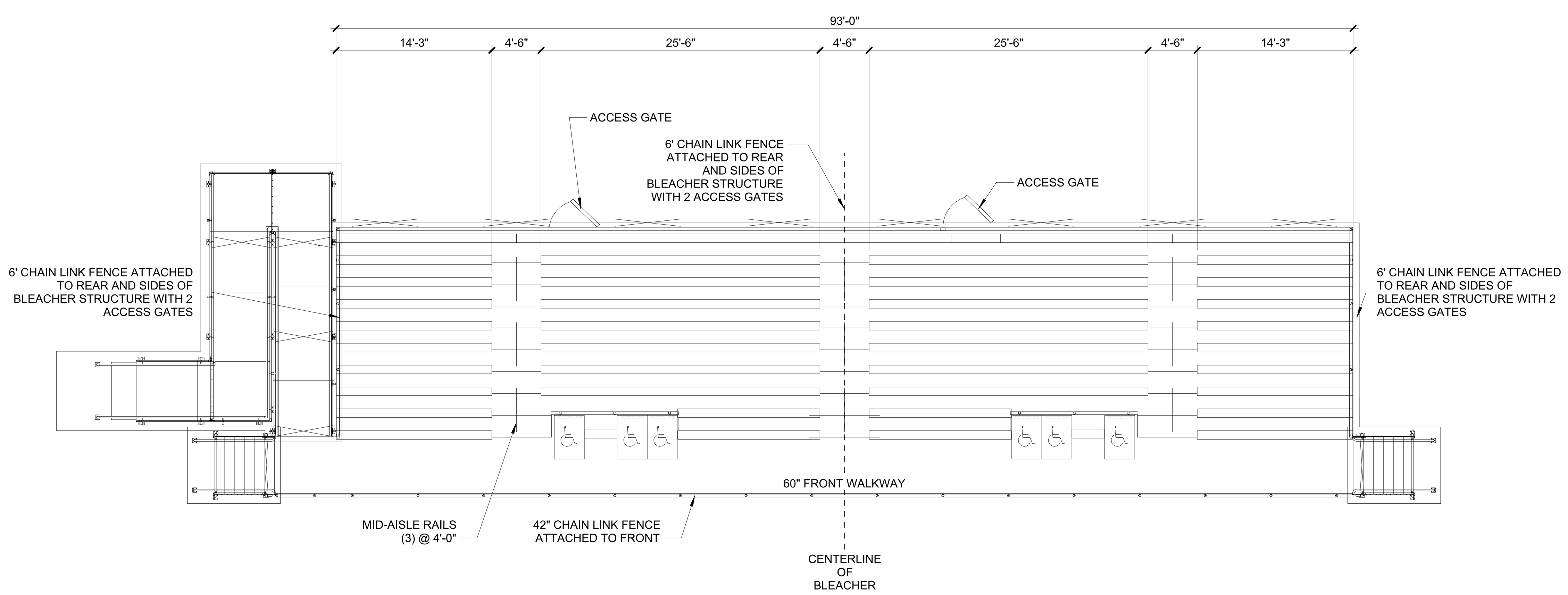


1 BLEACHERS ELEVATION - ALTERNATE #1
1/4" = 1'-0"

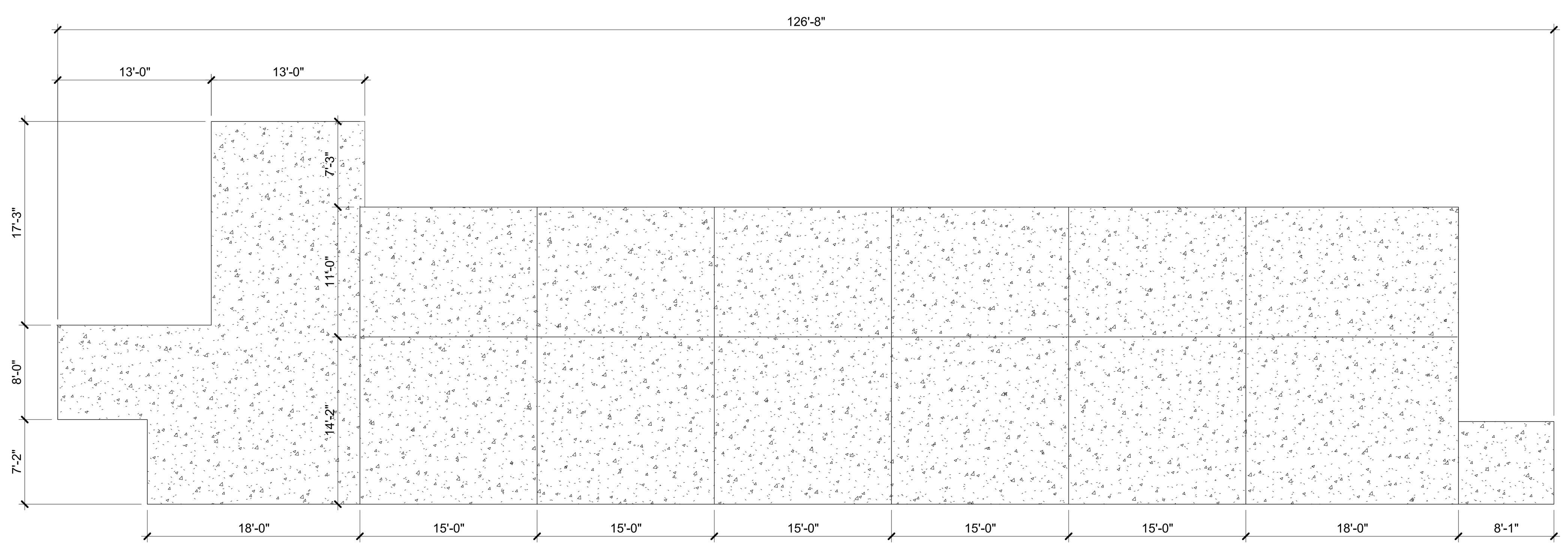
4 TICKET BOOTH FRONT ELEVATION ALTERNATE #3
1/4" = 1'-0"

5 TICKET BOOTH BACK ELEVATION - ALTERNATE #3
1/4" = 1'-0"

5'X6' PREFABRICATED TICKEY BOOTH PROVIDED BY LITTLE BUILDINGS INC.



2 BLEACHERS PLAN - ALTERNATE NO. 1
1/8" = 1'-0"



3 BLEACHER CONCRETE SLAB - PLAN - ALTERNATE NO. 1
1/8" = 1'-0"

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SCHOOL TOWN OF MUNSTER
MUNSTER HIGH SCHOOL - NEW PARKING LOT AND STORAGE BUILDING ADDITION
8823 COLUMBIA AVE. MUNSTER, IN 46321

SCHOOL TOWN MUNSTER

DATE:	DESCRIPTION:

PROJECT #: 2024.104
DATE: MARCH 10, 2025
SHEET TITLE:
ENLARGED BLEACHER PLANS & SECTIONS
SHEET:
AS1.4

Exhibit C

1 LANDSCAPE PLAN
SCALE: 1" = 20'-0"

0 10' 20'

N

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE		QTY	DETAIL	REMARKS
TREES							
	AL	Amelanchier laevis / Allegheny Serviceberry	6` Ht.		9		Multi-stem B&B
	BN	Betula nigra / River Birch Multi-Trunk	7` Ht.		7		Multi-stem B&B
	CF	Cornus florida / Flowering Dogwood	6` Ht.		13		Multi-stem B&B
	PS	Pinus strobus / White Pine	7` Ht.		15		B&B
STREET TREES							
	AX	Acer x freemanii / Freeman Maple	2" Cal.		3		B&B
	QB	Quercus bicolor / Swamp White Oak	2" Cal.		4		B&B
	TD	Taxodium distichum / Bald Cypress	2" Cal.		3		B&B
SHRUBS							
	PO	Physocarpus opulifolius 'Donna May' / Little Devil™ Dwarf Ninebark	3 gal.		47		6' O.C. B&B
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	SPACING	QTY	DETAIL	REMARKS
GROUND COVERS							
	DC	Deschampsia cespitosa / Tufted Hair Grass	1 gal.	48" o.c.	252		36" O.C.

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SCHOOL TOWN OF MUNSTER
MUNSTER HIGH SCHOOL
MUSTER HIGH SCHOOL - PARKING LOT AND STORAGE BUILDING ADDITION
8808 COLUMBIA AVE. MUNSTER, IN 46321

SCHOOL TOWN of MUNSTER

DATE:	DESCRIPTION:

PROJECT # 2024.104
DATE: FEBRUARY 20, 2025
SHEET TITLE: LANDSCAPE PLAN
SHEET: L1

SCOTT PRESTON REGISTERED No. LA22000013 STATE OF INDIANA LANDSCAPE ARCHITECT

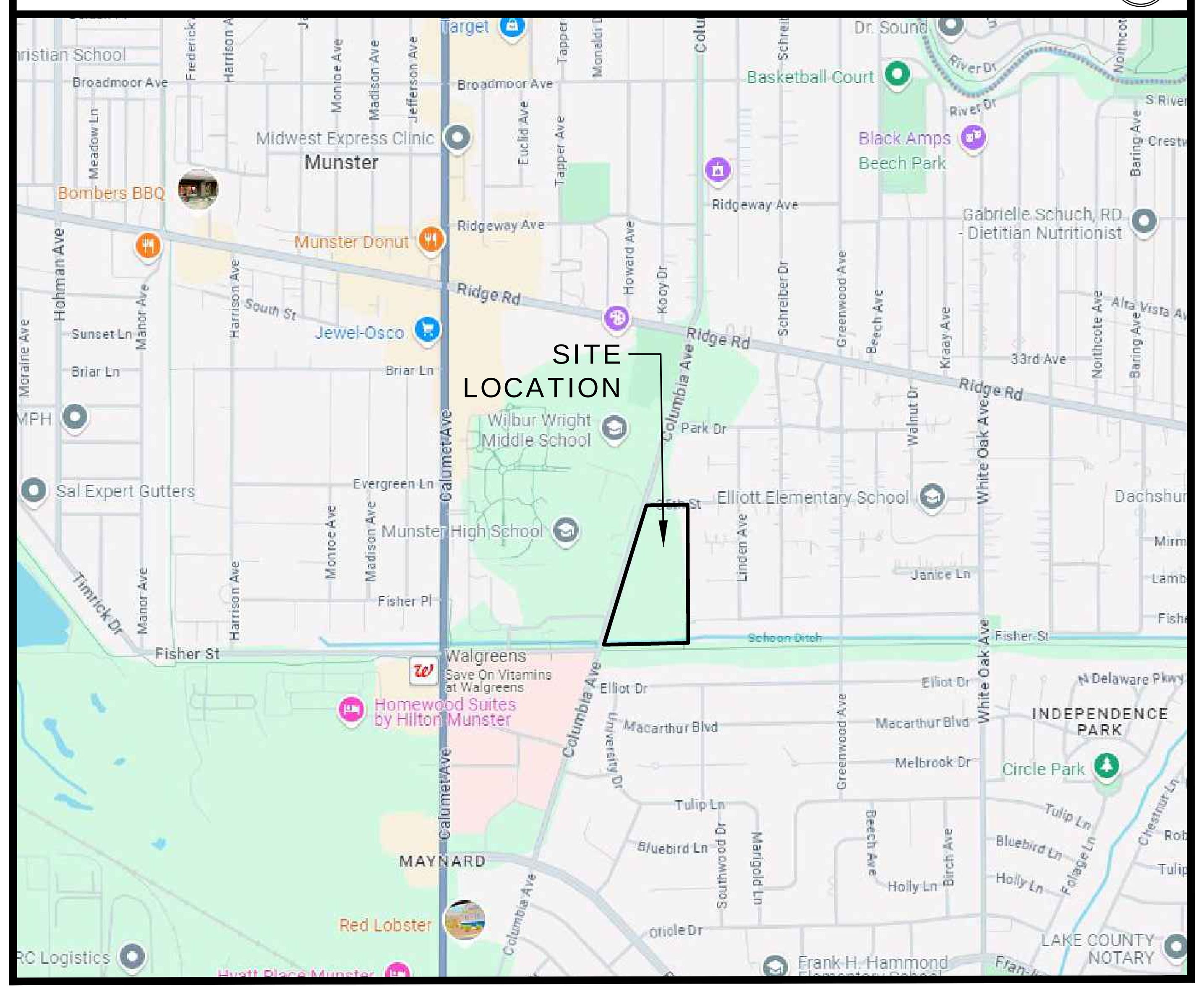
LANDSCAPE ARCHITECTURE
PRESTON CREATIVE

SCHOOL TOWN OF MUNSTER
MUNSTER HIGH SCHOOL
NEW PARKING LOT AND STORAGE BUILDING ADDITION
8823 COLUMBIA AVE. MUNSTER, IN 46321

Exhibit D

DRAWING INDEX		
SHEET	DESCRIPTION	DATE
T-1.0	TITLE SHEET	3-11-25
C-1.0	SITE DEMOLITION PLAN	3-11-25
C-2.0	SITE GEOMETRIC PLAN	3-11-25
C-3.0	SITE DEVELOPMENT PLAN	3-11-25
C-3.1	SITE DEVELOPMENT DETAILS	3-11-25
C-4.0	SITE GRADING PLAN	3-11-25
C-5.0	SITE UTILITY PLAN	3-11-25
C-5.1	SITE UTILITY DETAILS	3-11-25
C-6.0	STORMWATER POLLUTION PREVENTION PLAN	3-11-25
C-6.1	STORMWATER POLLUTION PREVENTION DETAILS	3-11-25
C-7.0	PROJECT SPECIFICATIONS	3-11-25
	TOPOGRAPHICAL & ENGINEERING SURVEY (PREPARED BY TORRENGA SURVEYING, LLC)	8-30-24
L1	LANDSCAPE PLAN (PREPARED BY PRESTON CREATIVE)	2-20-25
L2	DETAILS (PREPARED BY PRESTON CREATIVE)	2-20-25
L3	SPECIFICATIONS (PREPARED BY PRESTON CREATIVE)	2-20-25
PH1.0	SITE PLAN LIGHTING PHOMOMETRIC (PREPARED BY MILLIES ENGINEERING GROUP)	2-19-25

SITE LOCATION MAP



SCALE 1"=1000'

MAP DATA © 2024 GOOGLE

SECTION 19
TOWNSHIP 36N
RANGE 9W

CIVIL ENGINEERING STATEMENT AND SEAL

I, JAMES GLASCOTT, P.E., DULY LICENSED IN THE STATE OF INDIANA BY THE INDIANA PROFESSIONAL LICENSING AGENCY, DO HEREBY STATE THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.

Jim Glascott

DATE: 03/11/25

JAMES GLASCOTT - INDIANA P.E. # 12400652
DATE OF EXPIRATION - JULY 31, 2026

JAMES GLASCOTT
REGISTERED
PE12400652
STATE OF INDIANA
PROFESSIONAL ENGINEER

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Call 811 or 800-382-5544

*CONTRACTOR MUST LOCATE PRIVATE UTILITIES IN AREA OF CONSTRUCTION PRIOR TO PROCEEDING WITH WORK

NOTES

1. LEGAL DESCRIPTION:SE QUARTER OF SE SECTION 19, TWP 36 N, RANGE 9W.
2. SUBJECT PROPERTY SIZE: 10.07 ACRES
3. TOTAL LIMITS OF DISTURBANCE: X.XX ACRES

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SCHOOL TOWN OF MUNSTER
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8823 COLUMBIA AVE. MUNSTER, IN 46321

SCHOOL TOWN of MUNSTER

DATE:	DESCRIPTION:
02.04.2025	ISSUED FOR REVIEW
03.11.2025	ISSUED FOR PERMIT

PROJECT # 2024.104
DATE: MARCH 10, 2025
SHEET TITLE: TITLE SHEET

WT GROUP JOB NUMBER - C2400072

WT Group
Engineering ŸDesign ŸConsulting

WT GROUP
Structural | Mechanical/Electrical/Plumbing
Civil | Land Survey | Telecommunication| Aquatic
Accessibility Consulting | Design & Program Management
Engineering with Precision, Pace & Passion.
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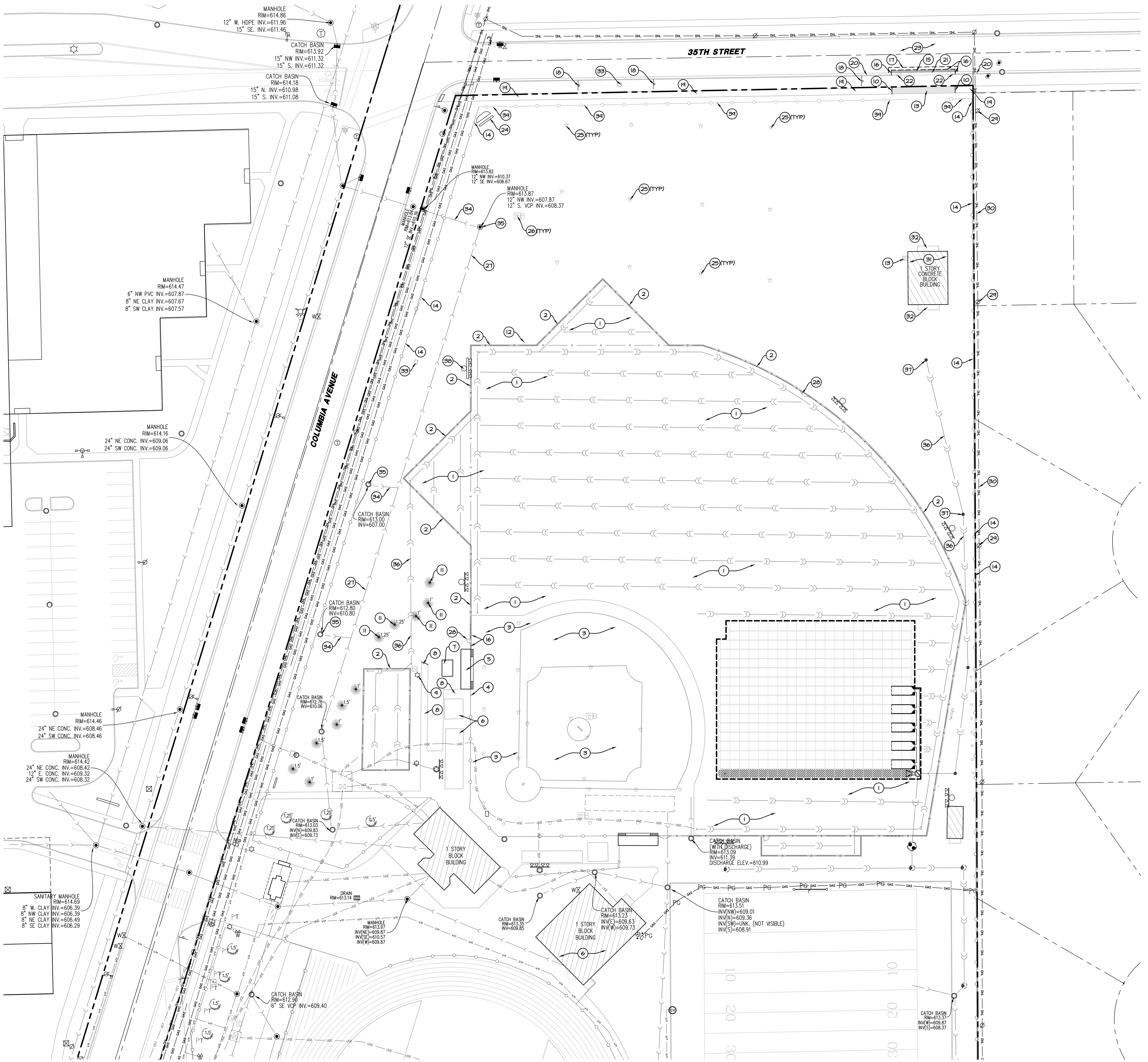
P: 224.293.6333 | F: 224.293.6444
wtengineering.com

SHEET: T-1.0



SITE DEMOLITION NOTES:

A. CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
B. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY DEMOLITION PERMITS AND COORDINATE ALL DEMOLITION WITH THE MUNICIPALITY AND OWNERS REPRESENTATIVE TO ENSURE PROTECTION AND MAINTENANCE OF SANITARY AND WATER UTILITIES AS NECESSARY AND TO PROVIDE STORM WATER CONVEYANCE UNTIL NEW FACILITIES ARE CONSTRUCTED, TESTED, AND PLACED IN OPERATION.
C. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A DAILY PROGRAM OF DUST CONTROL PROCEDURES PRIOR TO DEMOLITION OF ANY STRUCTURES. MODIFICATION OF DUST CONTROL PROCEDURES SHALL BE PERFORMED BY THE CONTRACTOR TO THE SATISFACTION OF THE MUNICIPALITY AND COMPLY WITH THE NPDES II REQUIREMENTS OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND THE INDIVIDUAL STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT.
D. ALL EXISTING TREES, BRUSH AND MISCELLANEOUS VEGETATION TO BE REMOVED OR DEMOLISHED SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
E. VOIDS LEFT BY ANY ITEM REMOVED UNDER ANY PROPOSED BUILDING, PAVEMENT, OR WALK OR WITHIN 24" THEREOF SHALL BE BACKFILLED WITH ENGINEERED FILL ACCORDING TO THE GEOTECHNICAL REPORT.
F. ALL EXISTING BUILDINGS, FOUNDATIONS, CONCRETE OR ASPHALT PAVEMENT OR WALKS, CURB AND GUTTER AND MISCELLANEOUS STRUCTURES (INCLUDING, BUT NOT LIMITED TO FENCES, POLES, YARD LIGHTS, ELECTRICAL PANELS, AND MISCELLANEOUS DEBRIS) INDICATED TO BE DEMOLISHED SHALL BE REMOVED OR DEMOLISHED AND REMOVED FROM THE SITE AND DISPOSED OF LEGALLY BY THE CONTRACTOR.
G. CONTACT GAS COMPANY PRIOR TO DEMOLITION. LOCATION OF EXISTING GAS SERVICES ARE UNKNOWN.
H. ALL EXISTING TREES SHALL REMAIN UNLESS OTHERWISE NOTED.
I. ALL EXISTING UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.
J. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS.
K. CONTRACTOR SHALL PROVIDE REMOVAL AND REPLACEMENT AND SHORING AS NECESSARY TO MEET OSHA AND LOCAL CODE, AS WELL AS MANUFACTURER'S REQUIREMENTS.
L. ALL FOUNDATIONS FOR ALL FENCES, SIGNS, ETC. NOTED FOR REMOVAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFFSITE.
M. PROOF-ROLLING SHALL BE PERFORMED FOR ALL SUBGRADE PRIOR TO CONSTRUCTION OF NEW PAVEMENT. ALL SUBGRADE PROOF-ROLLING SHALL BE WITNESSED AND APPROVED BY A MATERIALS TESTING AGENCY TO BE HIRED BY THE OWNER. CONTRACTOR TO COORDINATE ALL PROOF-ROLLING WITH THE MATERIALS TESTING AGENCY. CONTACT THE ENGINEER AND MATERIAL TESTING AGENCY SO THAT THEY MAY WITNESS THE PROOF ROLL. PROOF ROLL SHALL BE PROVIDED FOR ALL PAVEMENT AREAS SPECIFIED FOR FULL DEPTH REMOVAL AND REPLACEMENT.
N. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHICAL & ENGINEERING SURVEY LAST DATED 08-30-2024, PREPARED BY TORRENGA SURVEYING, LLC. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
O. SEE SHEETS 2 OF 2 TOPOGRAPHICAL & ENGINEERING SURVEY FOR ALL EXISTING LOCATED UTILITY DATA.
P. CLEAR SITE AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
Q. ALL ITEMS MARK "EXISTING OR EXISTING TO REMAIN" TO BE PROTECTED FROM DAMAGE FOR THE DURATION OF CONSTRUCTION.
R. EXISTING PAVEMENT AGGREGATE BASE COURSE SHALL NOT BE RE-USED AS AGGREGATE BASE COURSE FOR THE NEW PAVEMENT SECTION.

PROJECT NOTES:

1. EXISTING SYNTHETIC TURF FIELD TO REMAIN. BUILT UNDER SEPARATE CONTRACT.
2. EXISTING SYNTHETIC TURF TERMINATION CURB WITH FENCE TO REMAIN. BUILT UNDER SEPARATE CONTRACT.
3. EXISTING SYNTHETIC TURF INFIELD TO REMAIN.
4. EXISTING BACK STOP FENCE TO REMAIN.
5. EXISTING DUGOUT TO REMAIN.
6. EXISTING BLEACHERS TO REMAIN.
7. EXISTING STORAGE BUILDING TO REMAIN.
8. EXISTING CONCRETE PAVEMENT TO REMAIN.
9. EXISTING AREA LIGHT TO REMAIN.
10. NEW FULL DEPTH SAWCUT OF EXISTING CONCRETE TO PROVIDE CLEAN CONSTRUCTION BREAK. APPROXIMATE LOCATION SHOWN, PERFORM SAWCUT AT NEAREST JOINT.
11. EXISTING TREE TO REMAIN.
12. EXISTING FOUL POLE TO REMAIN. BUILT UNDER SEPARATE CONTRACT.
13. EXISTING CONCRETE PAVEMENT TO BE REMOVED FULL DEPTH TO MEET THE BOTTOM OF THE NEW PAVEMENT CROSS SECTIONS (NEW SUBGRADE ELEVATION). SEE THE SITE GRADING PLAN FOR NEW FINISHED ELEVATIONS AND DETAIL SHEETS FOR NEW PAVEMENT CROSS SECTIONS.
14. EXISTING FENCE/GATE TO REMAIN.
15. EXISTING ASPHALT PAVEMENT TO BE REMOVED FULL DEPTH TO MEET THE BOTTOM OF THE NEW PAVEMENT CROSS SECTIONS (NEW SUBGRADE ELEVATION). SEE THE SITE GRADING PLAN FOR NEW FINISHED ELEVATIONS AND DETAIL SHEETS FOR NEW PAVEMENT CROSS SECTIONS.
16. NEW FULL DEPTH SAWCUT TO PROVIDE CLEAN CONSTRUCTION BREAK.
17. NEW 2' WIDE BUTT JOINT.
18. EXISTING SIGN TO REMAIN.
19. EXISTING SIDEWALK TO REMAIN.
20. EXISTING CURB AND GUTTER TO REMAIN.
21. EXISTING DEPRESSED CURB TO BE REMOVED.
22. EXISTING CURB AND GUTTER TO BE REMOVED.
23. EXISTING ASPHALT PAVEMENT TO REMAIN.
24. EXISTING MAIN ID SIGN TO REMAIN.
25. EXISTING SPRINKLER HEAD TO BE REMOVED.
26. EXISTING IRRIGATION CONTROL VALVE TO BE REMOVED.
27. EXISTING STORM SEWER TO REMAIN. LOCATION SHOWN PER RECORDS. VERIFY IN FIELD AND NOTIFY THE ENGINEER OF ANY CONFLICTS.
28. EXISTING GATE TO REMAIN. BUILT UNDER SEPARATE CONTRACT.
29. EXISTING UTILITY POLE TO REMAIN.
30. EXISTING OVERHEAD LINES TO REMAIN.
31. EXISTING BUILDING TO REMAIN. (SEE ARCHITECTURAL PLANS FOR LIMITS OF NEW ADDITION IMPROVEMENTS).
32. EXISTING CONCRETE STOOP TO REMAIN.
33. EXISTING TELCO VAULT TO REMAIN.
34. EXISTING STORM SEWER TO REMAIN.
35. EXISTING STORM STRUCTURE TO REMAIN.
36. EXISTING STORM SEWER TO REMAIN. BUILT UNDER SEPARATE CONTRACT.
37. EXISTING STORM STRUCTURE TO REMAIN. BUILT UNDER SEPARATE CONTRACT.
38. EXISTING RELOCATED BASEBALL FIELD LIGHTING POLE AND LIGHTING FIXTURES. BUILT UNDER SEPARATE CONTRACT. (SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION AND DETAILS).
39. EXISTING FENCE TO BE REMOVED.

DEMOLITION LEGEND

EXISTING STORM SEWER
EXISTING STORM SEWER BUILT UNDER SEPARATE CONTRACT
EXISTING SANITARY SEWER
WM — WM — WM EXISTING WATER MAIN
GAS — GAS — GAS EXISTING GAS SERVICE
UGE — UGE — UGE EXISTING UNDERGROUND ELECTRIC SERVICE
UGT — UGT — UGT EXISTING UNDERGROUND TELCO SERVICE
OHL — OHL — OHL EXISTING OVERHEAD LINES
EXISTING CATCH BASIN / INLET
EXISTING BEEHIVE CATCH BASIN
EXISTING MANHOLE
EXISTING NYLOPLAST DRAIN BASIN BUILT UNDER SEPARATE CONTACT
EXISTING CONCRETE PAVEMENT TO BE REMOVED FULL DEPTH
EXISTING ASPHALT PAVEMENT TO BE REMOVED FULL DEPTH

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CONTRACTOR MUST LOCATE PRIVATE UTILITIES IN AREA OF CONSTRUCTION PRIOR TO PROCEEDING WITH WORK

NORTH

1" = 30'

00 15 30 60 120

JAMES GLASCOTT
REGISTERED
PE12400652
STATE OF INDIANA
PROFESSIONAL ENGINEER

WT GROUP JOB NUMBER - C2400072

WT Group
Engineering ŸDesign ŸConsulting

WT GROUP
Structural | Mechanical/Electrical/Plumbing
Civil | Land Survey | Telecommunication| Aquatic
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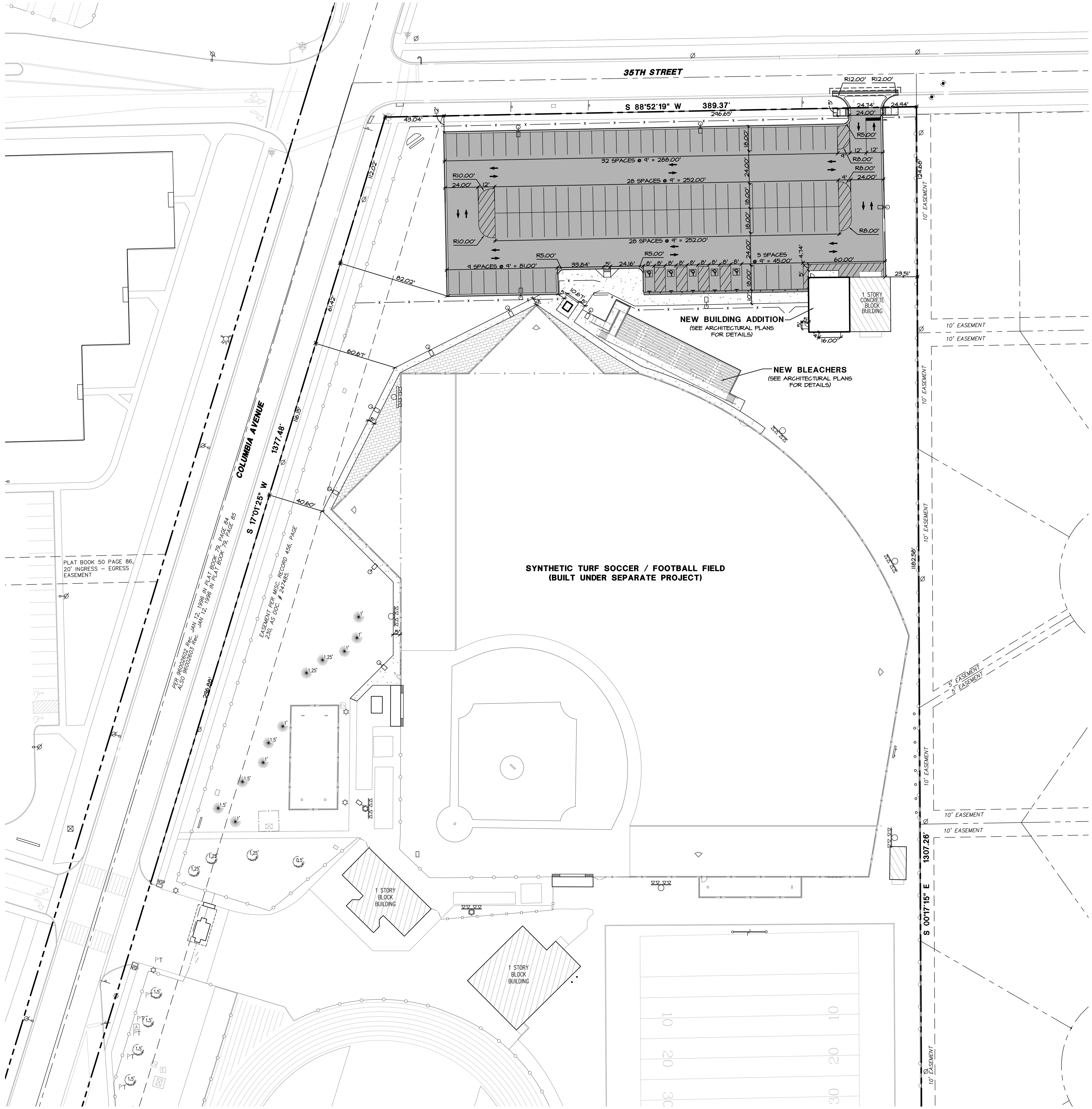
SCHOOL TOWN OF MUNSTER
MUSTER HIGH SCHOOL - NEW PARKING LOT AND STORAGE BUILDING ADDITION
8823 COLUMBIA AVE. MUNSTER, IN 46321

SCHOOL TOWN of MUNSTER

DATE:	DESCRIPTION:
02.04.2025	ISSUED FOR REVIEW
03.11.2025	ISSUED FOR PERMIT

PROJECT # 2024.104
DATE: MARCH 10, 2025
SHEET TITLE: SITE DEMOLITION PLAN
SHEET: C-1.0



SITE GEOMETRIC NOTES:

A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHICAL & ENGINEERING SURVEY LAST DATED 08-30-2024, PREPARED BY TORRENGA SURVEYING, LLC. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
B. ALL DIMENSIONS SHOWN ARE MEASURED FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT OR FACE OF CURB UNLESS OTHERWISE NOTED.
C. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE ARCHITECTURAL PLANS.
D. SEE THE ARCHITECTURAL PLANS FOR THE DESIGN OF ALL BUILDING ENTRIES.
E. CONSTRUCTION SURVEY AND STAKEOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
F. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS.
G. CONTRACTOR SHALL CONTACT INDIANA811 (811 OR 1-800-382-5544) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.
H. ASPHALT PAVEMENT MARKINGS SHALL BE MADE WITH HIGH QUALITY PAINT CONFORMING TO THE INDOT STANDARD SPECIFICATIONS.
I. ALL PAINTED CURB ON SITE TO BE REPAINTED FOLLOWING RESURFACING OF THE PARKING LOT. MATCH EXISTING COLOR, REPAINT WITH HIGH QUALITY PAINT.
J. THIS LAYOUT IS PARALLEL TO THE NORTH PROPERTY LINE S88° 52'19"W.

HATCH LEGEND

NEW 5" CONCRETE SIDEWALK
5" PORTLAND CEMENT CONCRETE
4" INDOT #53 AGGREGATE

NEW FULL DEPTH ASPHALT PAVEMENT
1" - 9.5MM HMA SURFACE COURSE
3" - 25MM HMA BASE
6" INDOT #53 AGGREGATE

NEW FULL DEPTH ROADWAY ASPHALT PAVEMENT
2-1/2" HMA SURFACE COURSE
2-1/2" HMA BINDER COURSE
12" INDOT #53 AGGREGATE

BRICK PAVERS

NORTH

1" = 30'

00 15 30 60 120

JAMES GLASCOTT
REGISTERED
PE12400652
STATE OF INDIANA
PROFESSIONAL ENGINEER

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SCHOOL TOWN OF MUNSTER
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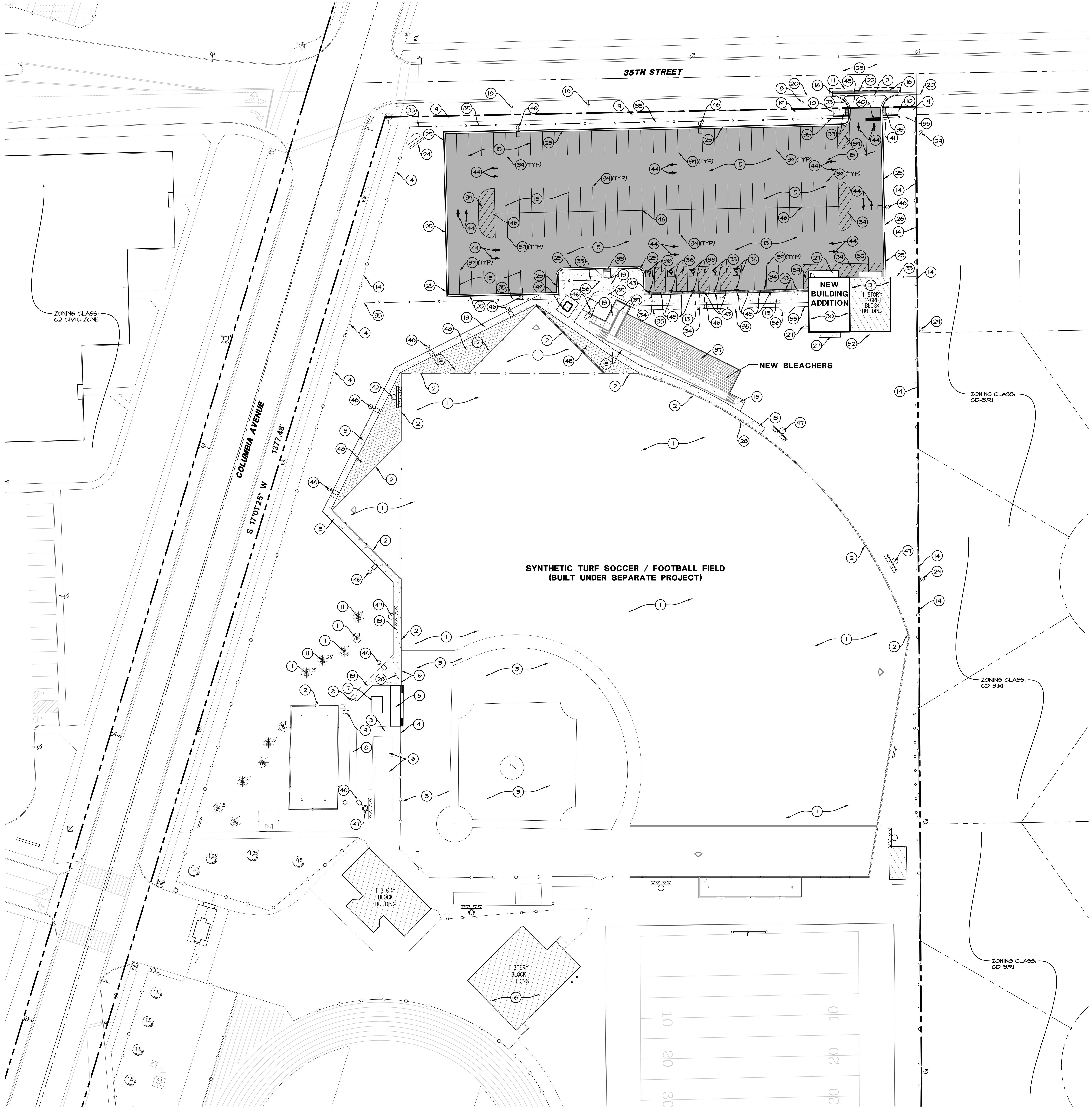
8823 COLUMBIA AVE. MUNSTER, IN 46321

DATE:	DESCRIPTION:
02.04.2025	ISSUED FOR REVIEW
03.11.2025	ISSUED FOR PERMIT

PROJECT # 2024.104
DATE: MARCH 10, 2025
SHEET TITLE: SITE GEOMETRIC PLAN
SHEET: C-2.0



SITE DEVELOPMENT NOTES:

A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHICAL & ENGINEERING SURVEY LAST DATED 08-30-2024, PREPARED BY TORRENGA SURVEYING, LLC. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
B. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE ARCHITECTURAL PLANS.
C. SEE THE ARCHITECTURAL PLANS FOR THE DESIGN OF ALL BUILDING ENTRIES.
D. CONTRACTOR SHALL COORDINATE ALL LANDSCAPING IMPROVEMENTS WITH LANDSCAPE PLANS.
E. CONSTRUCTION SURVEY AND STAKEOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
F. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED.
G. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.
H. ASPHALT PAVEMENT MARKINGS SHALL BE MADE WITH HIGH QUALITY PAINT CONFORMING TO INDOT STANDARD SPECIFICATIONS.
I. CONTRACTOR SHALL RESTORE ALL DISTURBED GREEN SPACES WITH 6" OF TOPSOIL, SEED, AND EROSION CONTROL BLANKET.
J. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT , CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
K. CONTRACTOR SHALL RE-STRIPE ALL STRIPING DISTURBED WITHIN THE EXISTING ROADWAYS/PARKING LOT TO MATCH EXISTING.
L. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS.
M. ALL ITEMS MARKED "EXISTING" TO BE PROTECTED FROM DAMAGE FOR THE DURATION OF CONSTRUCTION.
N. ALL EXISTING SUBGRADE TO BE SCARIFIED (DISKED) TO A DEPTH OF 12" AND RE-COMPACTED, AND THEN TESTED USING A DYNAMIC CONE PENETROMETER. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
O. EXISTING PAVEMENT AGGREGATE BASE COURSE SHALL NOT BE RE-USED AS AGGREGATE BASE COURSE FOR THE NEW PAVEMENT SECTION.

PROJECT NOTES:

1. EXISTING SYNTHETIC TURF FIELD TO REMAIN. BUILT UNDER SEPARATE CONTRACT.
2. EXISTING SYNTHETIC TURF TERMINATION CURB WITH FENCE TO REMAIN. BUILT UNDER SEPARATE CONTRACT.
3. EXISTING SYNTHETIC TURF INFIELD TO REMAIN.
4. EXISTING BACK STOP FENCE TO REMAIN.
5. EXISTING DUGOUT TO REMAIN.
6. EXISTING BLEACHERS TO REMAIN.
7. EXISTING STORAGE BUILDING TO REMAIN.
8. EXISTING CONCRETE PAVEMENT TO REMAIN.
9. EXISTING AREA LIGHT TO REMAIN.
10. NEW FULL DEPTH SAWCUT OF EXISTING CONCRETE TO PROVIDE CLEAN CONSTRUCTION BREAK. APPROXIMATE LOCATION SHOWN, PERFORM SAWCUT AT NEAREST JOINT.
11. EXISTING TREE TO REMAIN.
12. EXISTING FOUL POLE TO REMAIN. BUILT UNDER SEPARATE CONTRACT.
13. NEW 5" CONCRETE SIDEWALK.
14. EXISTING FENCE/GATE TO REMAIN.
15. NEW FULL DEPTH ASPHALT PAVEMENT.
16. NEW FULL DEPTH SAWCUT TO PROVIDE CLEAN CONSTRUCTION BREAK.
17. NEW 2' WIDE BUTT JOINT.
18. EXISTING SIGN TO REMAIN.
19. EXISTING SIDEWALK TO REMAIN.
20. EXISTING CURB AND GUTTER TO REMAIN.
21. NEW DEPRESSED CONCRETE CURB AND GUTTER.
22. NEW ROADWAY ASPHALT PAVEMENT.
23. EXISTING ASPHALT PAVEMENT TO REMAIN.
24. EXISTING MAIN ID SIGN TO REMAIN.
25. NEW B6.12 CONCRETE CURB AND GUTTER.
26. NEW 10' WIDE CURB CUT.
27. NEW 5" CONCRETE STOOP. (SEE ARCHITECTURAL PLANS FOR DETAILS).
28. EXISTING GATE TO REMAIN. BUILT UNDER SEPARATE CONTRACT.
29. EXISTING UTILITY POLE TO REMAIN.
30. NEW BUILDING ADDITION. (SEE ARCHITECTURAL PLANS FOR DETAILS).
31. EXISTING BUILDING TO REMAIN. (SEE ARCHITECTURAL PLANS FOR LIMITS OF NEW ADDITION IMPROVEMENTS).
32. EXISTING CONCRETE STOOP TO REMAIN.
33. NEW ADA ACCESSIBLE RAMP WITH 2' WIDE DETECTABLE WARNING STRIP.
34. NEW 2' WIDE DETECTABLE WARNING STRIP.
35. NEW FENCE. (SEE ARCHITECTURAL PLANS FOR DETAILS).
36. NEW GATE. (SEE ARCHITECTURAL PLANS FOR DETAILS).
37. NEW BLEACHERS. (SEE ARCHITECTURAL PLANS FOR DETAILS).
38. NEW ACCESSIBLE PARKING SPACE STRIPING AND SYMBOL.
39. NEW 4" WIDE YELLOW PAINTED PAVEMENT STRIPING.
40. NEW 2' WIDE WHITE PAINTED STOP BAR.
41. NEW R1-1 STOP SIGN.
42. EXISTING RELOCATED BASEBALL FIELD LIGHTING POLE AND LIGHTING FIXTURES. BUILT UNDER SEPARATE CONTRACT. (SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION AND DETAILS).
43. NEW 6" CONCRETE BOLLARD.
44. NEW YELLOW PAINTED TRAFFIC FLOW ARROW.
45. NEW CONCRETE APRON.
46. NEW AREA LIGHT. (SEE PHOTOMETRIC PLANS FOR DETAILS).
47. EXISTING BASEBALL FIELD LIGHT TO REMAIN.
48. NEW CONCRETE BRICK PAVERS.
49. NEW TICKET BOOTH. (SEE ARCHITECTURAL PLANS FOR DETAILS).

HATCH LEGEND

NEW 5" CONCRETE SIDEWALK
5" PORTLAND CEMENT CONCRETE
4" INDOT #53 AGGREGATE

NEW FULL DEPTH ASPHALT PAVEMENT
1" - 9.5MM HMA SURFACE COURSE
3" - 25MM HMA BASE
6" INDOT #53 AGGREGATE

NEW FULL DEPTH ROADWAY ASPHALT PAVEMENT
2-1/2" HMA SURFACE COURSE
2-1/2" HMA BINDER COURSE
12" INDOT #53 AGGREGATE

BRICK PAVERS

NORTH

1" = 30'

0 15 30 60 120

JAMES GLASCOTT
REGISTERED
PE12400652
STATE OF INDIANA
PROFESSIONAL ENGINEER

WT GROUP JOB NUMBER - C2400072

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Engineering Design Consulting

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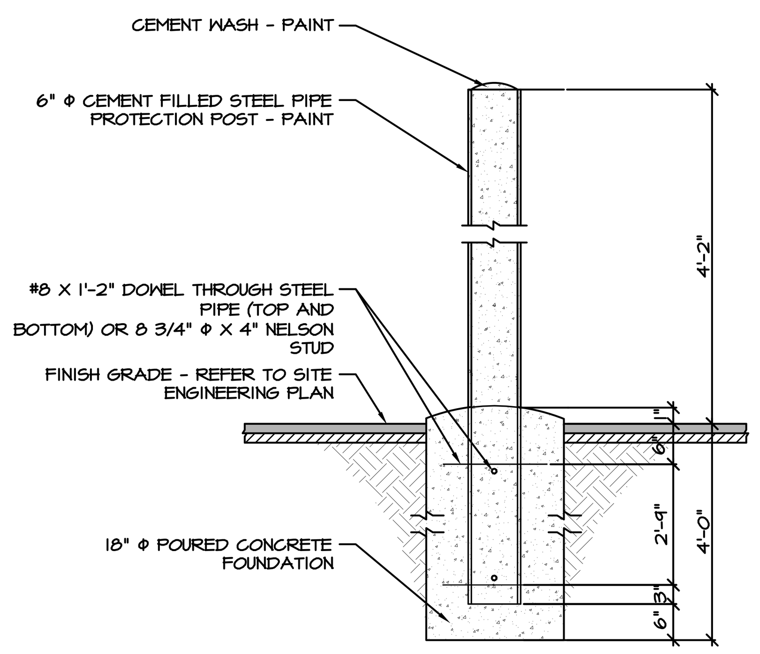
SCHOOL TOWN OF MUNSTER
MUSTER HIGH SCHOOL - NEW PARKING LOT AND STORAGE BUILDING ADDITION
8823 COLUMBIA AVE. MUNSTER, IN 46321

DATE:	DESCRIPTION:
02.04.2025	ISSUED FOR REVIEW
03.11.2025	ISSUED FOR PERMIT

PROJECT # 2024.104
DATE: MARCH 10, 2025
SHEET TITLE: SITE DEVELOPMENT PLAN
SHEET: C-3.0



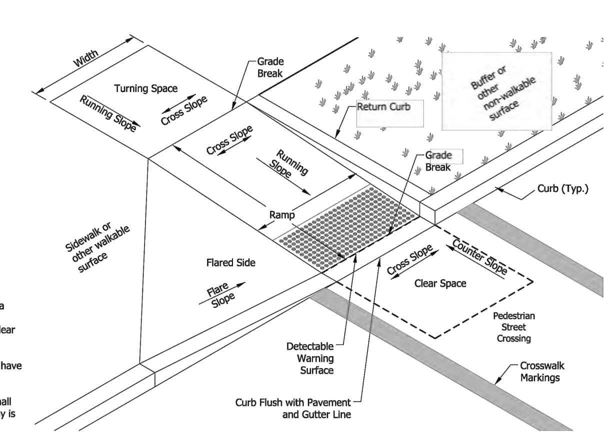
DETAIL - CONCRETE BOLLARD

NOT TO SCALE

INDEX	
SHEET NO.	SUBJECT
1	Curb Ramp Drawing Index and General Notes
2-3	Perpendicular Curb Ramp Typical Placement
4	Perpendicular Curb Ramp Component Details
5	One-Way-Directional Perpendicular Curb Ramp Typical Placement
6	One-Way-Directional Perpendicular Curb Ramp Component Details
7	Parallel Curb Ramps Typical Placement
8	Parallel Curb Ramp Component Details
9	Blended Transition Curb Ramp, Depressed Curb Ramp and Diagonal Curb Ramp Typical Placement
10	Blended Transition Curb Ramp Component Details
11	Median Cut-Through and Median Perpendicular Curb Ramp Typical Placement
12-13	Detectable Warning Surface Placement and Configuration
14	Detectable Warning Surface Details

GENERAL NOTES:

1. All slopes are absolute rather than relative to the sidewalk or roadway grade. Slopes at least 0.50% less than the maximum are preferred.
2. Ramp or Blended Transition. A ramp or blended transition shall be used to lower or raise the sidewalk to connect with the street or highway.
3. Turning Space. A turning space shall be provided at the top of a perpendicular ramp, bottom of a parallel ramp, or where the pedestrian travel requires a change in direction. A common turning space may be shared by adjacent ramps. The turning space shall have a minimum clear dimension of 4 ft x 4 ft. Where the turning space is constrained at the back of the sidewalk by a curb, retaining wall, building, or feature over 2 inches in height, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.
4. Flared Side. A flared side shall be used adjacent to a walkable surface. A flared side may be used adjacent to a non-walkable surface. A flared side shall have a maximum slope of 10.00% measured parallel to the back of the curb.
5. Return Curb. A return curb is placed perpendicular to the roadway curb. A return curb may be used adjacent to a non-walkable surface. A return curb shall not be used adjacent to a walkable surface. The return curb may be omitted where the non-walkable surface is flared and the curb adjacent the roadway is tapered to meet the flush curb at the bottom of the ramp.
6. Clear Space. A clear space shall be provided beyond the bottom grade break of a curb ramp wholly contained within the crosswalk and wholly outside the parallel vehicular travel path. The clear space shall have a minimum clear dimension of 4 ft x 4 ft.
7. Detectable Warning Surface. A detectable warning surface shall consist of truncated domes and be placed at each street, highway, or railroad crossing. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and be placed the entire width of a ramp, blended transition, or turning space.
8. Running Slope. The running slope of a ramp, blended transition, or turning space shall be measured parallel to the direction of pedestrian travel.
   a. A running slope of 2.00% or less is considered level.
   b. A ramp shall have a maximum running slope of 8.33% but shall not require a ramp length to exceed 15 ft.
   c. A blended transition shall have a maximum running slope of 5.00%.
   d. A turning space shall have a maximum running slope of 2.00%.
9. Width. Unless otherwise noted, minimum width of a ramp, blended transition, or turning space, excluding flared sides or return curb, shall be 4 ft.
10. Grade Break. A grade break at the top and bottom of a ramp, blended transition, or turning space shall be perpendicular to the running slope. Grade breaks shall not be within the ramp, blended transition, turning space, or detectable warning surface. Grade breaks shall be flush. Vertical discontinuities shall not be greater than 1/2 in. Where a discontinuity is greater than 1/4 in. the surface shall be beveled with a slope not steeper than 1V:2H.
11. Cross Slope Exceptions. The cross slope of a ramp, blended transition, or turning space shall be measured perpendicular to the direction of pedestrian travel.
   a. The maximum cross slope at a pedestrian street crossing without yield or stop control shall be 5.00%.
   b. The maximum cross slope at a pedestrian street crossing with yield or stop control shall be 2.00%.
   c. The maximum cross slope at a midblock crossing shall be the established grade of the adjacent roadway.
12. Counter Slope. A counter slope is the cross slope of the gutter or street adjacent the running slope of the ramp, blended transition, or turning space. See Standard Drawing E 604-SWCR-14 for counter slope details.
13. Objects such as a utility cover, vault frame, and grating shall be placed outside the curb ramp.
14. Curb ramps shall be placed within the marked crosswalk area.
15. Drainage inlets should be located uphill from a curb ramp to prevent ponding in the path of pedestrian travel.



TYPICAL CURB RAMP COMPONENTS

INDIANA DEPARTMENT OF TRANSPORTATION

CURB RAMP DRAWING INDEX AND GENERAL NOTES

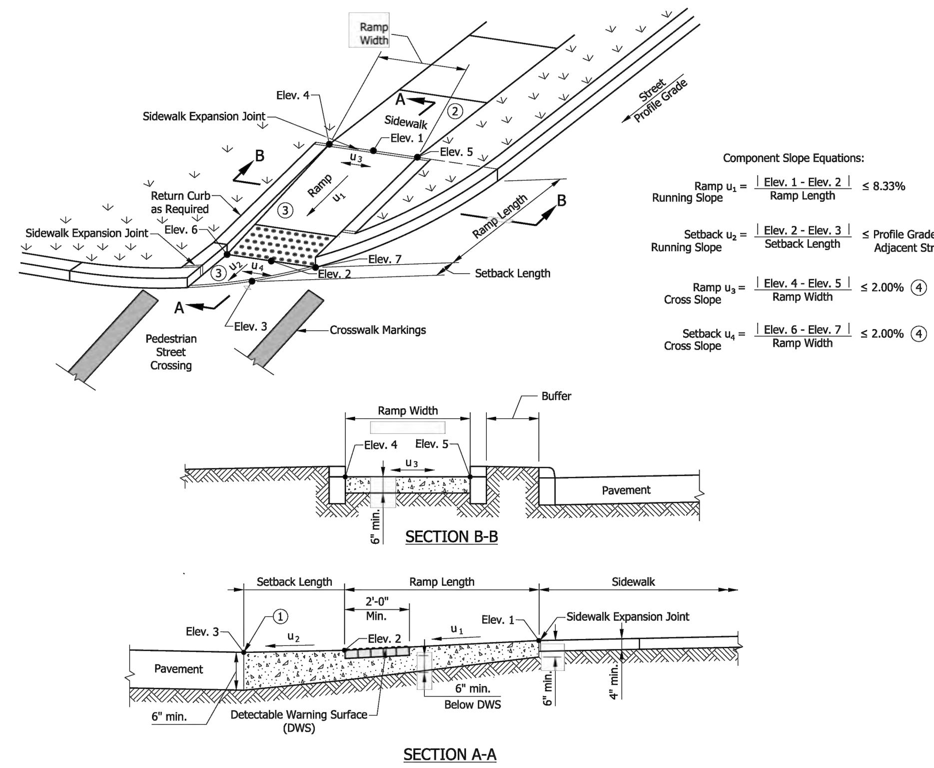
SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-01

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/20/18
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/25/18
CHIEF ENGINEER DATE



NOTES:

(1) The bottom edge of the ramp or setback and top of curb shall be flush with the edge of adjacent pavement and gutter line.

(2) A turning space is not required at the top of the ramp for a one-way directional perpendicular curb ramp.

(3) Curb ramp surface shall be coarse broomed transverse to the running slope.

(4) See Standard Drawing E 604-SWCR-01 for cross slope exceptions.

5. See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.

6. See Standard Drawing E 604-CCSJ-01 for sidewalk expansion joint details.

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface

INDIANA DEPARTMENT OF TRANSPORTATION

ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP COMPONENT DETAILS

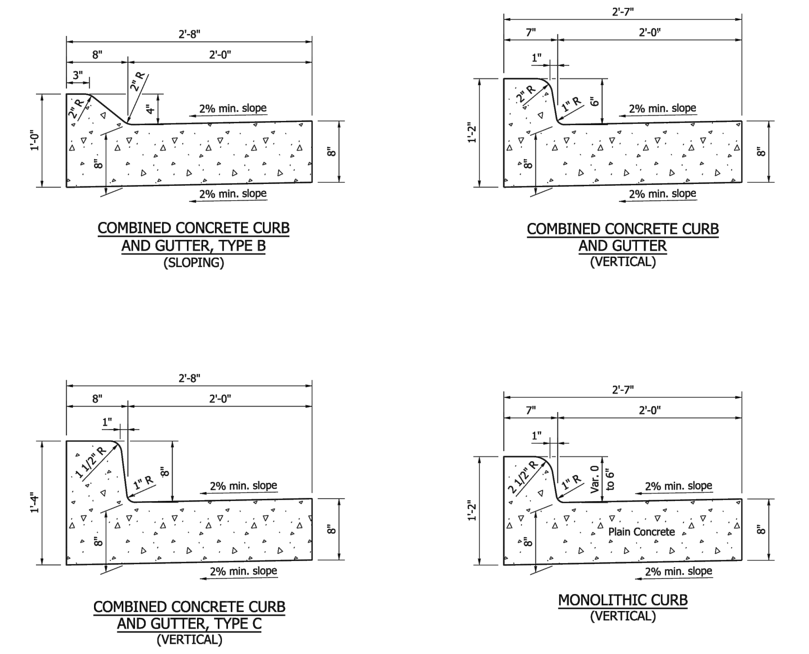
SEPTEMBER 2018

STANDARD DRAWING NO. E 604-SWCR-06

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/29/18
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/25/18
CHIEF ENGINEER DATE



INDIANA DEPARTMENT OF TRANSPORTATION

COMBINED CONCRETE CURB AND GUTTER

SEPTEMBER 2011

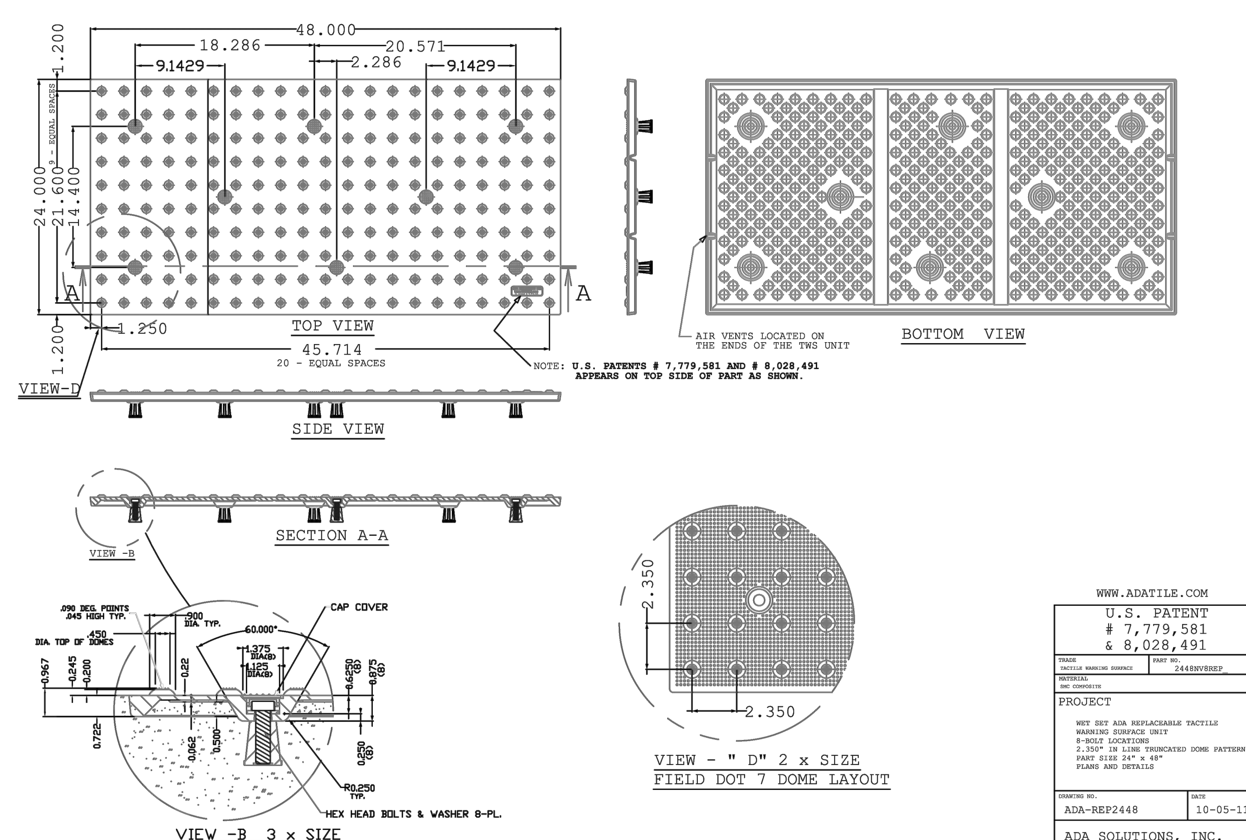
STANDARD DRAWING NO. E 605-CCCG-01

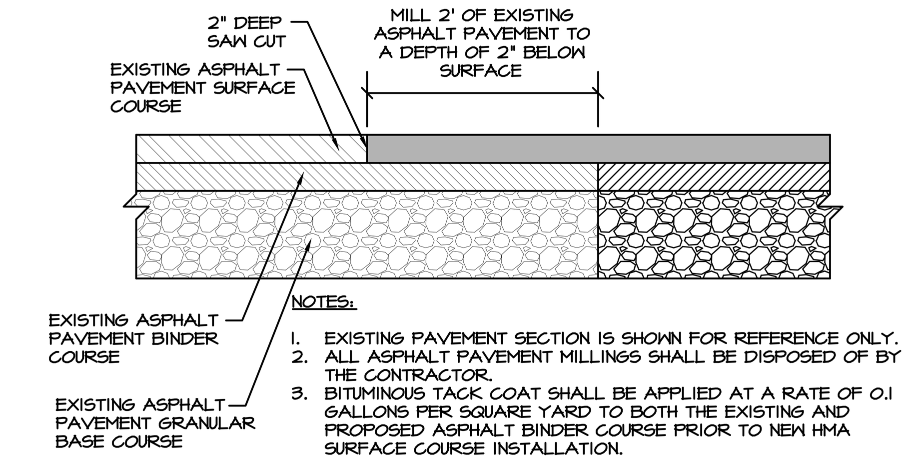
RICHARD L. VanCLEAVE REGISTERED No. 9750 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/s/ Richard L. VanCleave 09/01/11
DESIGN STANDARDS ENGINEER DATE

/s/ Mark A. Miller 09/01/11
CHIEF HIGHWAY ENGINEER DATE



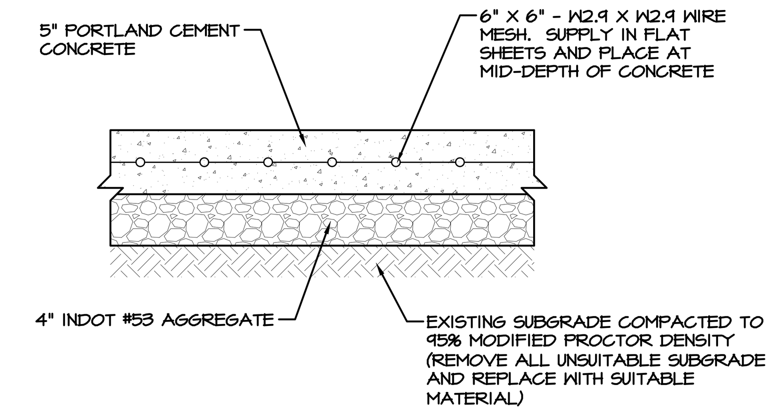


NOTES:

1. EXISTING PAVEMENT SECTION IS SHOWN FOR REFERENCE ONLY.
2. ALL ASPHALT PAVEMENT MILLINGS SHALL BE DISPOSED OF BY THE CONTRACTOR.
3. BITUMINOUS TACK COAT SHALL BE APPLIED AT A RATE OF 0.1 GALLONS PER SQUARE YARD TO BOTH THE EXISTING AND PROPOSED ASPHALT BINDER COURSE PRIOR TO NEW HMA SURFACE COURSE INSTALLATION.

DETAIL - BUTT JOINT

NOT TO SCALE

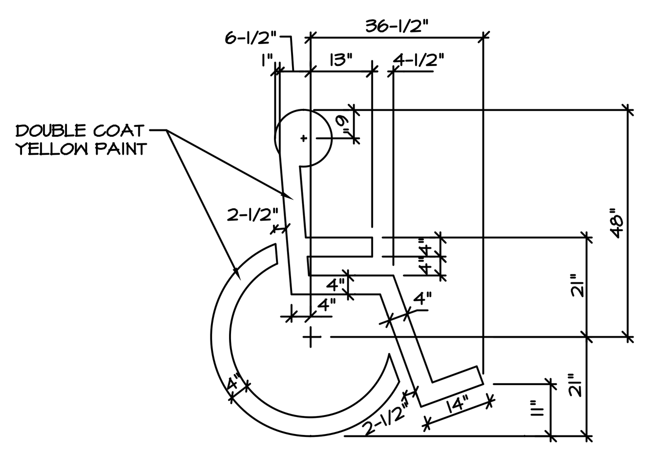


NOTES:

1. INSTALL THREE (3) CONTINUOUS NO. 4 STEEL REBAR PERPENDICULAR TO AND CENTERED OVER ALL UTILITY TRENCH CROSSINGS SO BARS EXTEND A MINIMUM OF FIVE (5) FEET BEYOND THE TRENCH.

DETAIL - 5" CONCRETE SIDEWALK PAVEMENT

NOT TO SCALE

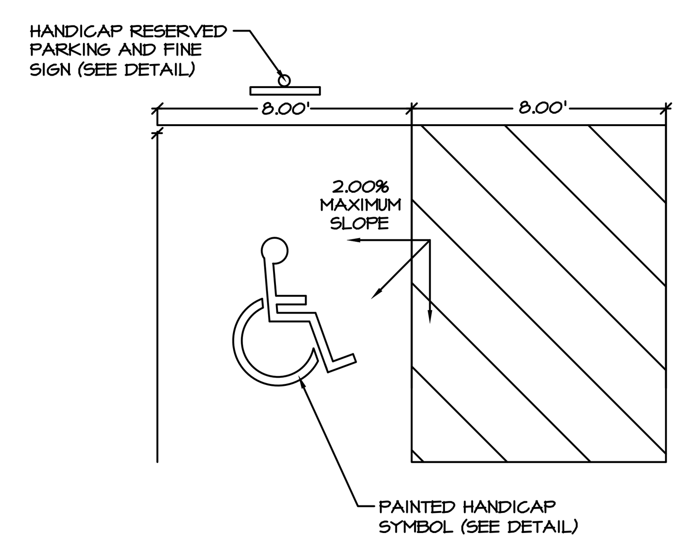


NOTES:

1. SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL.

DETAIL - ADA ACCESSIBLE SYMBOL

NOT TO SCALE



NOTES:

1. ALL PAVEMENT STRIPING SHALL BE YELLOW.
2. MAXIMUM SLOPE WITHIN ALL HANDICAP PARKING STALLS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.

DETAIL - ADA ACCESSIBLE PARKING STALL

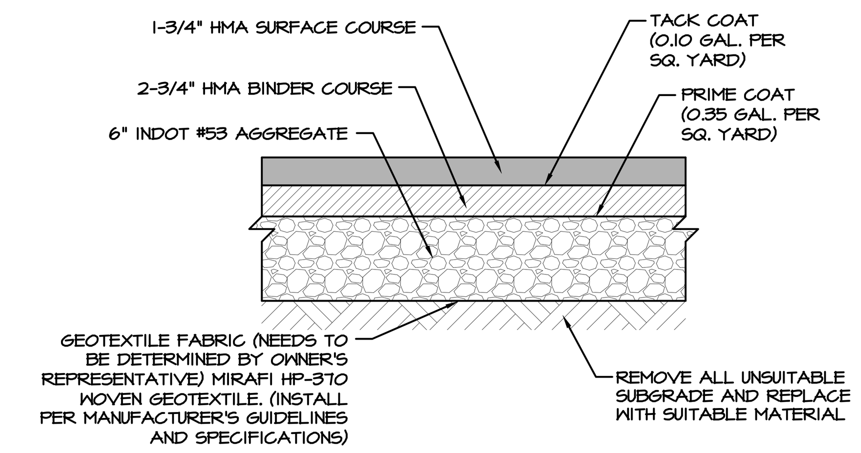
NOT TO SCALE

NOTES:

1. CENTER SIGN IN PARKING STALL AND INSTALL MINIMUM OF 5' ABOVE FINISHED PAVEMENT ELEVATION.
2. CONTRACTOR SHALL VERIFY FINE AMOUNT WITH MUNICIPALITY PRIOR TO INSTALLATION.

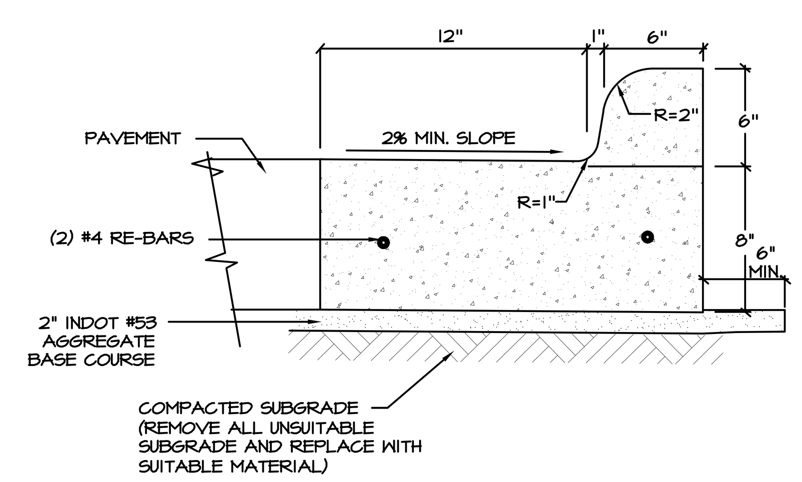
DETAIL - ADA ACCESSIBLE PARKING SIGN & POST

NOT TO SCALE



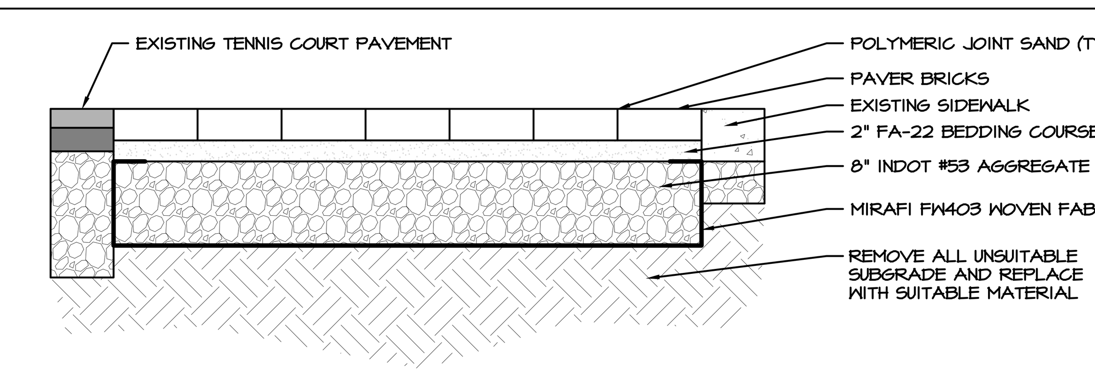
DETAIL - ASPHALT PAVEMENT

NOT TO SCALE



DETAIL-B6-12 CURB & GUTTER

NOT TO SCALE



DETAIL - PAVER INSTALLATION

NOT TO SCALE

JAMES GLASCOTT REGISTERED PE12400662 STATE OF INDIANA PROFESSIONAL ENGINEER

WT GROUP JOB NUMBER - C2400072

WT GROUP

Structural | Mechanical/Electrical/Plumbing
Civil | Land Survey | Telecommunication| Aquatic
Accessibility Consulting | Design & Program Management
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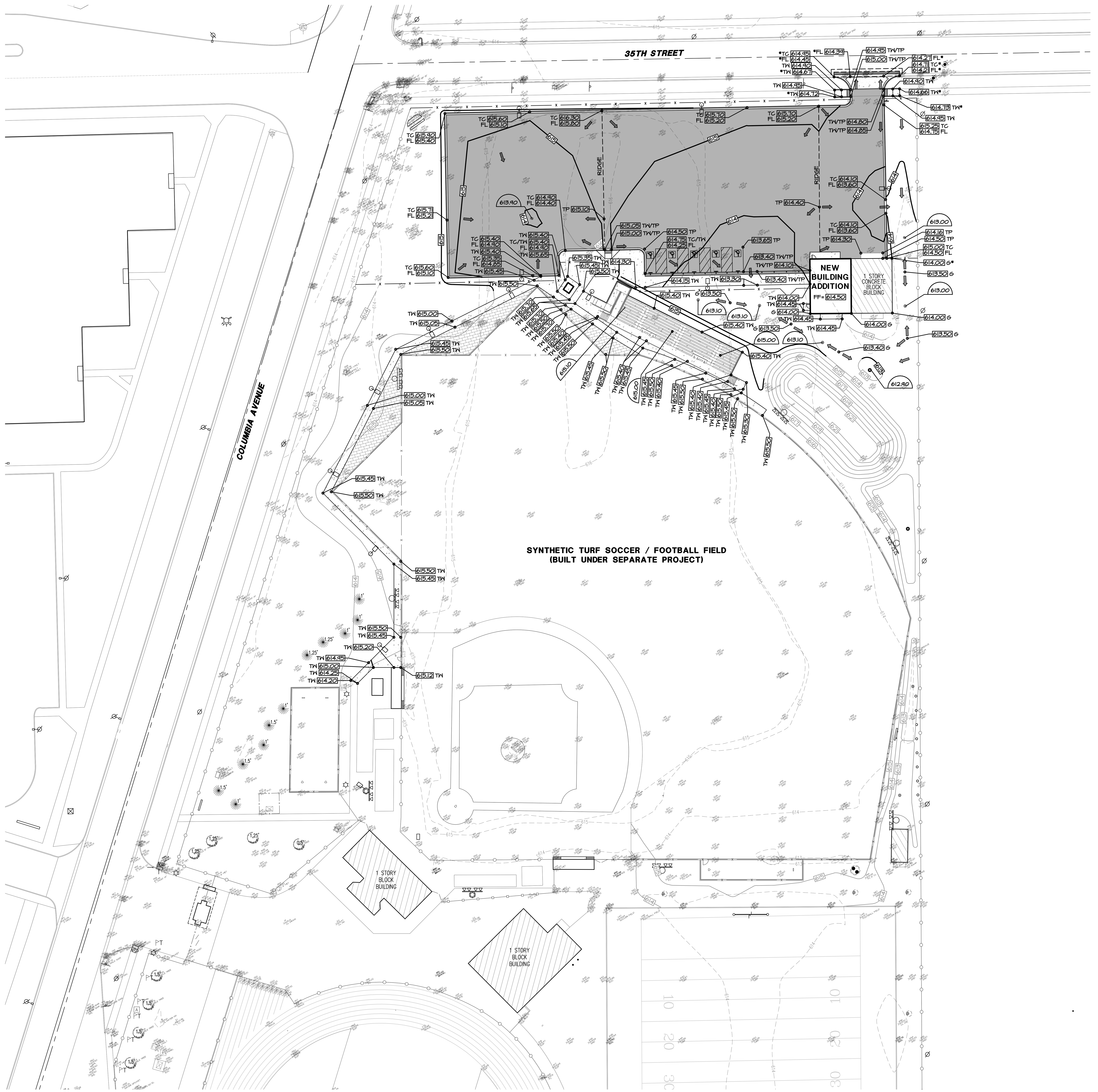
SCHOOL TOWN OF MUNSTER
MUSTER HIGH SCHOOL - NEW PARKING LOT AND STORAGE BUILDING ADDITION
8823 COLUMBIA AVE. MUNSTER, IN 46321

SCHOOL TOWN OF MUNSTER

DATE:	DESCRIPTION:
02.04.2025	ISSUED FOR REVIEW
03.11.2025	ISSUED FOR PERMIT

PROJECT #: 2024.104
DATE: MARCH 10, 2025
SHEET TITLE:
SITE DEVELOPMENT DETAILS

SHEET:
C-3.1



SITE GRADING NOTES:

A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHICAL AND ENGINEERING SURVEY LAST DATED 08-30-2024, PREPARED BY TORRENGA SURVEYING, LLC. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

B. ALL PROPOSED GRADES ARE GIVEN TO FINISHED GRADE, I.E. TOP OF PROPOSED ASPHALT, CONCRETE, TOP OF PROPOSED CURB, ETC. SEE DETAILS FOR PAVEMENT THICKNESS.

C. CONTRACTOR SHALL CONTACT INDIANA 811, A PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.

D. CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE END OF EACH WORKING DAY DURING CONSTRUCTION OPERATIONS. FAILURE TO PROVIDE ADEQUATE DRAINAGE WILL PRECLUDE THE CONTRACTOR FROM ANY POSSIBLE COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT.

E. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.

F. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.

G. CONTRACTOR TO UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.

H. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED.

I. ALL HANDICAP ACCESSIBLE ROUTES (SIDEWALKS, WALKWAYS, PAVEMENTS, ETC.) SHALL MAINTAIN A MAXIMUM CROSS SLOPE OF 2.00% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%. ACCESSIBLE PARKING STALLS SHALL MAINTAIN A MAXIMUM SLOPE OF 2.00% IN ALL DIRECTIONS.

J. VOIDS LEFT BY ANY ITEM REMOVED UNDER ANY PROPOSED BUILDING, PAVEMENT, OR WALK OR WITHIN 24" THEREOF SHALL BE BACKFILLED WITH ENGINEERED FILL ACCORDING TO THE GEOTECHNICAL REPORT.

K. ALL FIRE ACCESS LANES WITHIN THE PROJECT AREA SHALL REMAIN IN SERVICE, CLEAN OF DEBRIS, AND ACCESSIBLE FOR USE BY EMERGENCY VEHICLES.

L. CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.

M. ALL EXISTING SUBGRADE TO BE SCARIFIED (DISKED) TO A DEPTH OF 12" AND RE-COMPACTED, AND THEN TESTED USING A DYNAMIC CONE PENETROMETER. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.

N. ALL EXCESS SOILS THAT CANNOT BE USED AS SUITABLE FILL SHALL BE HAULED FROM THE SITE AND LEGALLY DISPOSED OF.

O. CONTRACTOR TO PROVIDE SOIL TESTING SERVICES FOR COMPLETION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S LPC-662 AND/OR LPC-663 FORMS AS PART OF THEIR CONTRACT.

P. PREPARE SUBGRADE AS SPECIFIED WITHIN THE GEOTECHNICAL REPORT DATED 09-10-2024 PREPARED BY GEOCON PROFESSIONAL SERVICES, LLC.

Q. ALL TOPSOIL BENEATH PROPOSED STRUCTURES AND PAVEMENT SHALL BE REMOVED. REFER TO THE GEOTECHNICAL REPORT DATED 09-10-2024 PREPARED BY GEOCON PROFESSIONAL SERVICES, LLC FOR EXISTING TOPSOIL DEPTHS.

R. EXISTING PAVEMENT AGGREGATE BASE COURSE SHALL NOT BE RE-USED AS AGGREGATE BASE COURSE FOR THE NEW PAVEMENT SECTION.

GRADING LEGEND

627.72	EXISTING SPOT GRADE
000.00	PROPOSED SPOT GRADE
*000.00	INTERPOLATED SPOT GRADE
000.00	PROPOSED RIM ELEVATION
	EXISTING CONTOUR LINE
	PROPOSED CONTOUR LINE
	PROPOSED CONTOUR LINE BUILT UNDER SEPARATE CONTRACT
	OVERLAND FLOW ARROW
	100 YEAR OVERLAND FLOW ROUTE
TP	TOP OF PAVEMENT ELEVATION
TW	TOP OF SIDEWALK ELEVATION
FF	FINISHED FLOOR ELEVATION
TC	TOP OF CURB ELEVATION
FL	FLOW LINE ELEVATION
ADJUST	ADJUST EXISTING RIM ELEVATION
	EXISTING CATCH BASIN / INLET
	EXISTING BEEHIVE CATCH BASIN
	EXISTING MANHOLE
	PROPOSED NYLOPLAST DRAIN BASIN
	PROPOSED INLET
	PROPOSED SQUARE NDS CATCH BASIN

HATCH LEGEND

NEW 5" CONCRETE SIDEWALK
5" PORTLAND CEMENT CONCRETE
4" INDOT #53 AGGREGATE

NEW FULL DEPTH ASPHALT PAVEMENT
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12" INDOT #53 AGGREGATE

BRICK PAVERS

NORTH

1" = 30'

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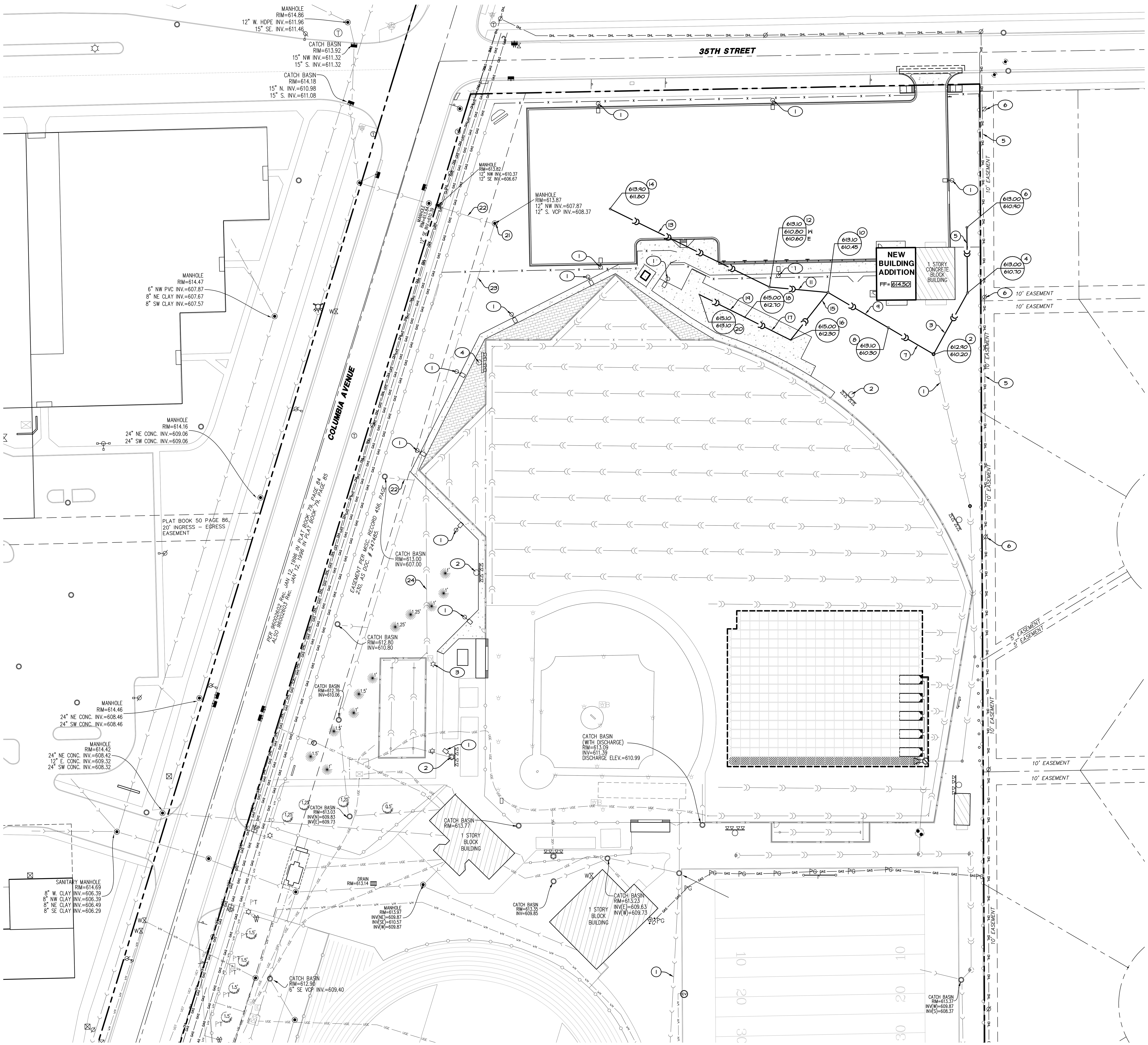
DATE: MARCH 10, 2025
SHEET TITLE: SITE GRADING PLAN
SHEET: C-4.0



SITE UTILITY NOTES:

A. CONTRACTOR SHALL CONTACT INDIANA811 (811 OR 1-800-382-5544) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.
B. CONTRACTOR TO UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
C. CONTRACTOR SHALL EXCAVATE AND VERIFY IN FIELD ALL EXISTING UTILITY LOCATIONS, SIZES, CONDITIONS AND ELEVATIONS AT PROPOSED POINTS OF CONNECTION PRIOR TO ANY UNDERGROUND CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.
D. REFER TO THE GENERAL NOTES AND SPECIFICATION SHEETS FOR ALL PIPE MATERIAL AND JOINT SPECIFICATIONS.
E. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.
F. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE, MATERIAL, INVERT, PIPE ROUTING, AND SLOPE OF ALL EXISTING UTILITIES AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION.
G. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF UTILITY TRENCHES DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING AND BRACING AS NECESSARY TO MAINTAIN STABILITY UNTIL CONSTRUCTION OF THE UTILITY IS COMPLETE IN ORDER TO MEET OSHA AND LOCAL CODES, AS WELL AS MANUFACTURER'S REQUIREMENTS.
H. ALL RCP STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS IV, PER ASTM C-76 WITH FLEXIBLE (O-RING) GASKET JOINTS IN CONFORMANCE WITH ASTM C-443 AND SECTION 31-1.08 OF THE "STANDARD SPECIFICATIONS".
I. TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY (ASTM D-1557) OVER ALL UNDERGROUND UTILITIES WHICH ARE CONSTRUCTED UNDER OR WITHIN 2 FEET OF ANY PROPOSED OR EXISTING PAVEMENT OR SIDEWALKS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
J. ADJUST RIM ELEVATIONS OF EXISTING STRUCTURES IN PAVEMENT AS NECESSARY TO MEET PROPOSED FINISHED GRADE.
K. CONTRACTOR TO COORDINATE ALL CONNECTIONS TO CITY UTILITIES AND STORM SEWERS WITH THE PUBLIC WORKS DEPARTMENT.
L. CONTRACTOR TO USE CAUTION WHEN EXCAVATING AT EXISTING UTILITY LINES.
M. ALL STORM MANHOLES SHALL HAVE OPEN LIDS UNLESS OTHERWISE SPECIFIED.
N. PROVIDE RUBBER MISSION COUPLING OR SIMILAR CONNECTION BETWEEN PIPES OF DISSIMLAR SIZE OR MATERIAL.
O. ALL EXISTING UTILITIES TO BE ABANDONED IN PLACE SHALL BE CAPPED WITH 2' LONG (MIN.) NON-SHRINK CONCRETE MORTAR PLUGS AT BOTH ENDS.

STORM SEWER

1. EXISTING STORM SEWER PIPE TO REMAIN. BUILT UNDER SEPARATE CONTRACT.
2. EXISTING NYLOPLAST DRAIN BASIN TO REMAIN. CORE AND CONNECT NEW STORM SEWER. USE INSERTA - TEE CONNECTIONS.
3. NEW 12" HDPE, 54 L.F. @ 0.93% SLOPE.
4. NEW 24" DIA. NYLOPLAST DRAIN BASIN WITH STANDARD GRATE.
5. NEW 12" HDPE, 50 L.F. @ 0.40% SLOPE.
6. NEW 24" DIA. PRECAST CONCRETE INLET.
7. NEW 18" HDPE, 40 L.F. @ 0.25% SLOPE.
8. NEW 12" SQUARE NDS CATCH BASIN WITH DECORATIVE WAVE CAST IRON GRATE.
9. NEW 18" HDPE, 53 L.F. @ 0.28% SLOPE.
10. NEW 24" DIA. NYLOPLAST DRAIN BASIN WITH STANDARD GRATE.
11. NEW 15" HDPE, 45 L.F. @ 0.33% SLOPE.
12. NEW 24" DIA. NYLOPLAST DRAIN BASIN WITH STANDARD GRATE.
13. NEW 12" HDPE, 135 L.F. @ 0.74% SLOPE.
14. NEW 24" DIA. PRECAST CONCRETE INLET.
15. NEW 8" HDPE, 46 L.F. @ 4.02% SLOPE.
16. NEW 12" SQUARE NDS CATCH BASIN WITH STANDARD GRATE.
17. NEW 8" HDPE, 39 L.F. @ 1.03% SLOPE.
18. NEW 12" SQUARE NDS CATCH BASIN WITH STANDARD GRATE.
19. NEW 8" HDPE, 39 L.F. @ 1.03% SLOPE.
20. NEW 12" SQUARE NDS CATCH BASIN WITH STANDARD GRATE.
21. EXISTING STORM STRUCTURE TO REMAIN.
22. EXISTING STORM TO REMAIN.
23. EXISTING STORM SEWER TO REMAIN. LOCATION SHOWN PER RECORDS, VERIFY LOCATION IN FIELD AND NOTIFY THE ENGINEER OF ANY CONFLICTS.
24. EXISTING STORM SEWER TO REMAIN. BUILT UNDER SEPARATE CONTRACT.

MISCELLANEOUS NOTES

1. NEW AREA LIGHT. (SEE PHOTOMETRIC PLANS FOR DETAILS).
2. EXISTING BASEBALL FIELD LIGHT TO REMAIN.
3. EXISTING AREA LIGHT TO REMAIN. (SEE SITE ELECTRICAL PLANS FOR DETAILS).
4. EXISTING RELOCATED BASEBALL FIELD LIGHT REMAIN.
5. EXISTING OVERHEAD LINES TO REMAIN.
6. EXISTING UTILITY POLE TO REMAIN.

UTILITY LEGEND

EXISTING STORM SEWER
EXISTING STORM SEWER BUILT UNDER SEPARATE CONTRACT
PROPOSED STORM SEWER
EXISTING SANITARY SEWER
EXISTING WATER MAIN
EXISTING GAS SERVICE
EXISTING UNDERGROUND ELECTRIC SERVICE
EXISTING UNDERGROUND TELCO SERVICE
EXISTING OVERHEAD LINES
PROPOSED RIM ELEVATION
PROPOSED INVERT ELEVATION
EXISTING CATCH BASIN / INLET
EXISTING BEEHIVE CATCH BASIN
EXISTING MANHOLE
PROPOSED NYLOPLAST DRAIN BASIN
PROPOSED INLET
PROPOSED SQUARE NDS CATCH BASIN

NORTH

1" = 30'

00 15 30 60 120

JAMES GLASCOTT
REGISTERED
PE12400652
STATE OF INDIANA
PROFESSIONAL ENGINEER

WT GROUP JOB NUMBER - C2400072

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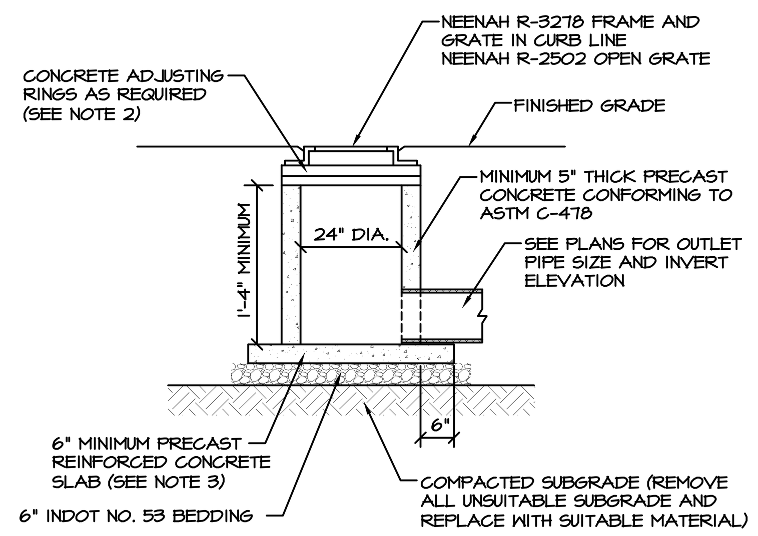
SCHOOL TOWN OF MUNSTER
MUSTER HIGH SCHOOL - NEW PARKING LOT AND STORAGE BUILDING ADDITION
8823 COLUMBIA AVE. MUNSTER, IN 46321

SCHOOL TOWN of MUNSTER

DATE:	DESCRIPTION:
02.04.2025	ISSUED FOR REVIEW
03.11.2025	ISSUED FOR PERMIT

PROJECT # 2024.104
DATE: MARCH 10, 2025
SHEET TITLE: SITE UTILITY PLAN
SHEET: C-5.0



NOTES:

1. PRECAST REINFORCED CONCRETE ADJUSTING RINGS SHALL CONFORM TO ASTM C-39 (COMPRESSIVE STRENGTH TEST).
2. MAXIMUM OF TWO CONCRETE ADJUSTING RINGS ARE ALLOWED AND THE TOTAL ADJUSTMENT HEIGHT SHALL NOT EXCEED 8".
3. PRECAST REINFORCED MONOLITHIC CONCRETE MANHOLE BOTTOM WITH INTEGRAL SIDEWALLS CAN BE SUBSTITUTED IN PLACE OF THE CONCRETE BOTTOM SLAB DESIGN SHOWN.
4. SEE PLANS FOR INLET RIM ELEVATIONS AND PIPE INVERT ELEVATIONS AND LOCATIONS.

DETAIL - INLET

NOT TO SCALE

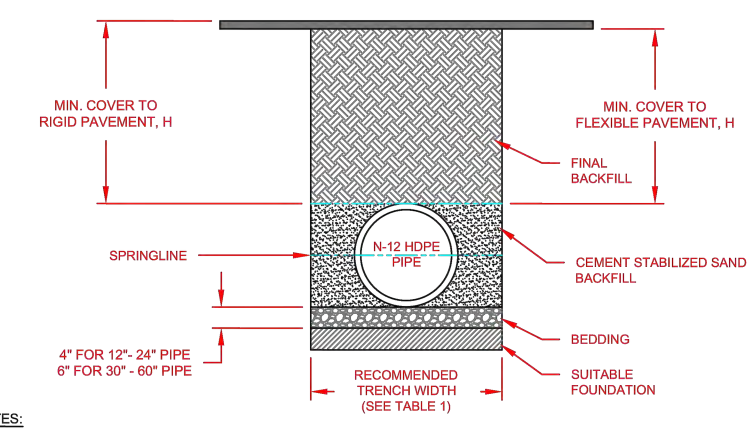


TABLE 1
RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION. NATIVE SOILS SHALL BE OF ADEQUATE STIFFNESS TO WITHSTAND A VERTICAL CUT WITHOUT MATERIAL SLOUGHING. DUE TO THE FINAL SET STRENGTH, CEMENT STABILIZED SAND (CSS) SHALL BE COMPACTED TO 85% SPD OR GREATER. SEE NOTES 7 AND 9 REGARDING SET STRENGTH.
2. RECOMMENDED TRENCH WIDTHS ARE LISTED IN TABLE 1 PER ASTM D2321. THESE VALUES ARE BASED ON PROVIDING SUFFICIENT SPACE BETWEEN THE PIPE O.D. AND THE TRENCH WALL, SUCH THAT WORKING ROOM FOR COMPACTION EQUIPMENT IS PROVIDED WITHOUT DAMAGING THE PIPE OR TRENCH WALL INTEGRITY. NARROWER TRENCHES MAY BE POSSIBLE BASED ON THE COMPACTION EQUIPMENT.
3. CSS SHALL HAVE A MIX DESIGN OF ADEQUATE FINAL STRENGTH TO CARRY ALL LIVE AND DEAD LOADING BUT ALLOW FOR ANY FUTURE EXCAVATION. TYPICAL 7 DAY COMPRESSIVE STRENGTHS RANGE BETWEEN 50 AND 100 PSI. MIX DESIGNS CAN VARY BASED ON THE CEMENT, ASH, SOIL, ADMIXTURES, AND WATER RATIO AND SHALL BE DESIGNED AND DEFINED BY THE ENGINEER OF RECORD. THE AMERICAN CONCRETE INSTITUTE (ACI) REPORT ACI 230.1R-09 IS ONE RESOURCE THAT PROVIDES MIX DESIGNS BASED ON DIFFERENT CLASSIFICATIONS OF SOIL.
4. CSS SHOULD NOT BE PLACED WHEN TEMPERATURES ARE BELOW 40°F, AGAINST FROZEN TRENCH MATERIAL OR WHEN APPRECIABLE PRECIPITATION IS FORECASTED DURING PLACEMENT.
5. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
6. BEDDING: SUITABLE MATERIAL SHALL BE CSS, OR CLASS I OR II PER ASTM D2321. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" DIAMETER PIPE (300mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED.
7. FINAL BACKFILL: THE CSS BACKFILL SHALL BE ALLOWED TO CURE AT LEAST 4 HOURS TO REACH AN INITIAL SET STRENGTH PRIOR TO PLACING SOIL ABOVE THE PIPE EMBEDMENT. ADDITIONAL CURE TIME MAY BE REQUIRED BASED ON THE OVERALL FINAL FILL HEIGHT (SEE NOTE 9).
8. MINIMUM COVER: MINIMUM COVER, H, IS 12" (300mm) THROUGH 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
9. MAXIMUM COVER: MAXIMUM COVER, H, IS BASED ON A MINIMUM 4HR SET TIME OF THE CSS BACKFILL PRIOR TO ANY SOIL PLACEMENT ABOVE THE BACKFILL ENVELOPE. FILL HEIGHTS UP TO 15FT ARE SUITABLE FOR ALL DIAMETERS. LONGER SET TIME MAY ALLOW FOR GREATER FILL HEIGHTS, CONTACT AN ADS REPRESENTATIVE FOR GUIDANCE; SET TIME LESS THAN 4HR MAY RESULT IN HIGHER THAN EXPECTED DEFLECTION AND IMPACT LONG-TERM PERFORMANCE.

REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
2	INITIAL BACKFILL	JAB	04/02/20	

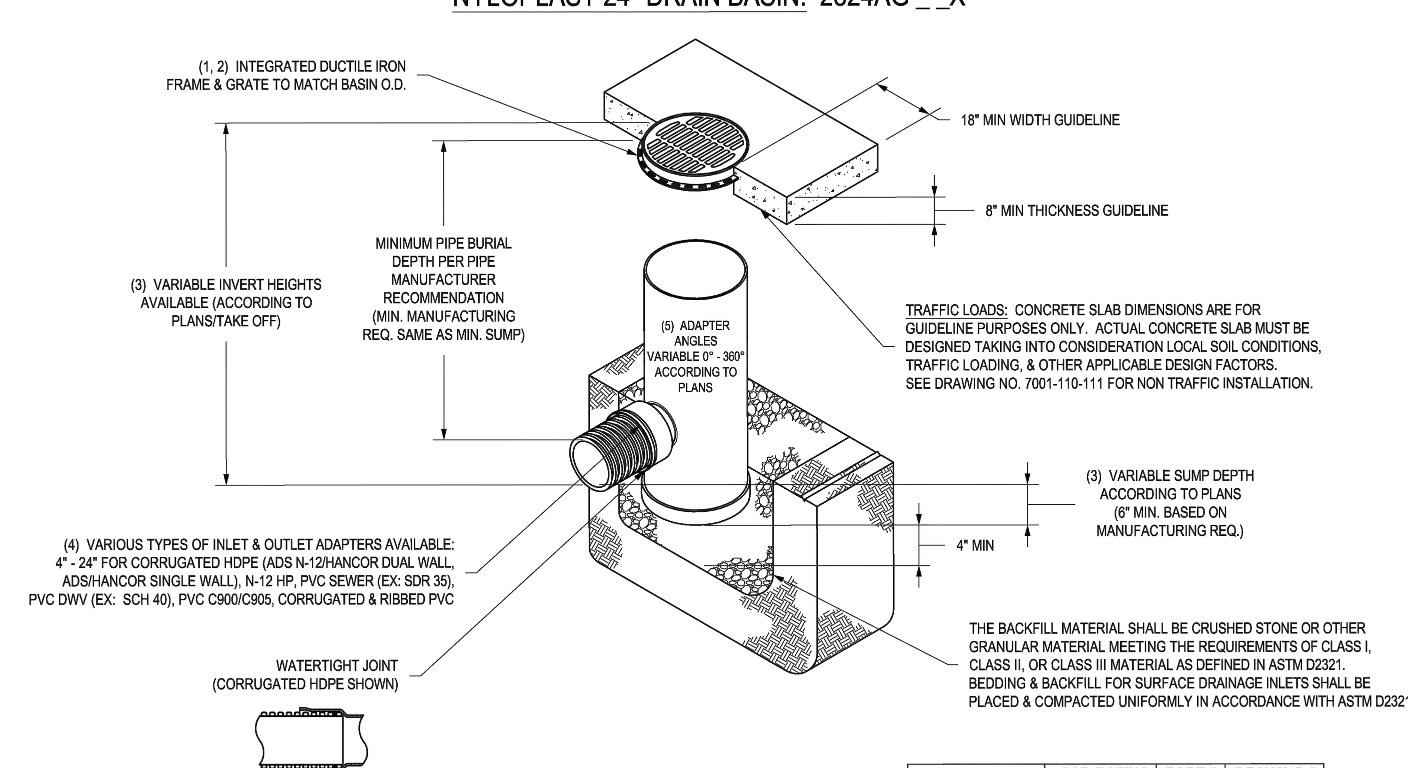
N-12 HDPE TRENCH INSTALLATION (CEMENT STABILIZED SAND)

DRAWING NUMBER: STD-101K

ADS Advanced Drainage Systems, Inc. 4640 TRUEMAN BLVD HILLIARD, OHIO 43026

DRAWN BY: CKM | DATE: 8/14/18 | CK'D BY: | SCALE: NTS | SHEET: 1 OF 1

NYLOPLAST 24" DRAIN BASIN: 2824AG _ _X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	2499CGP	7001-110-216
STANDARD	MEETS H-20	2499CGS	7001-110-217
SOLID COVER	MEETS H-20	2499CGC	7001-110-218
DOME	N/A	2499CGD	7001-110-219
DROP IN GRATE	LIGHT DUTY	2401DI	7001-110-075

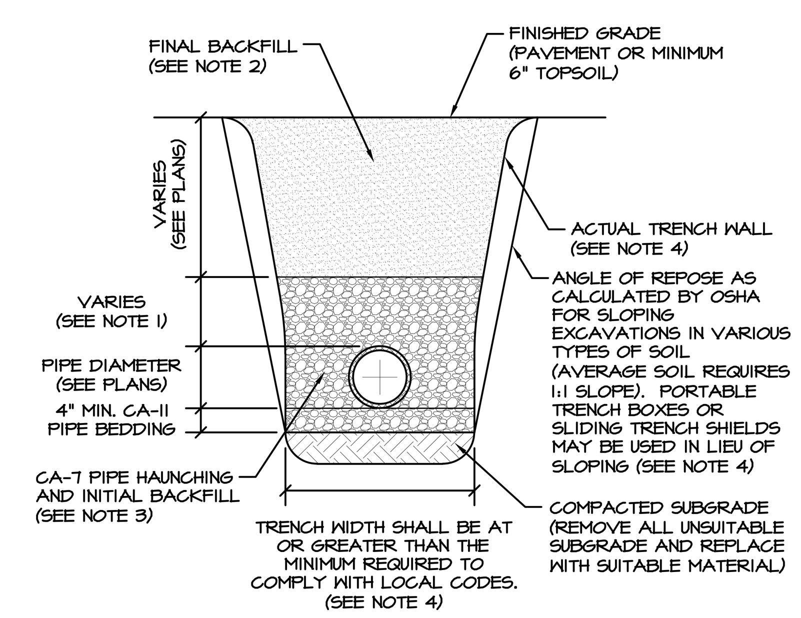
1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

DRAWN BY EBC | DATE 04-03-06 | REVISED BY NMH | DATE 03-14-16 | DWG SIZE A | MATERIAL | PROJECT NO./NAME | SCALE 1:40 | SHEET 1 OF 1

ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-192 REV E



NOTES:

1. 12" MINIMUM CA-7 INITIAL BACKFILL REQUIRED FOR PIPES UP TO AND INCLUDING 48" IN DIAMETER. 18" MINIMUM CA-7 INITIAL BACKFILL REQUIRED FOR PIPES GREATER THAN 48" IN DIAMETER.
2. BACKFILL TRENCH WITH INORGANIC EXCAVATED MATERIAL EXCEPT WHERE UNDER OR WITHIN 2' OF PAVEMENT WHERE CA-6 GRANULAR MATERIAL IS REQUIRED.
3. ALL BACKFILL MATERIALS SHALL BE PROPERLY COMPACTED ACCORDING TO THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN ILLINOIS," SECTION 20-4.06.
4. ALL TRENCH EXCAVATIONS SHALL BE PROTECTED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, LAWS AND RULES. AT A MINIMUM, THEY SHALL NOT BE LESS THAN THE STANDARDS AND REGULATIONS ESTABLISHED BY OSHA IN 29 CFR PART 1926.

DETAIL - FLEXIBLE PIPE TRENCH

NOT TO SCALE

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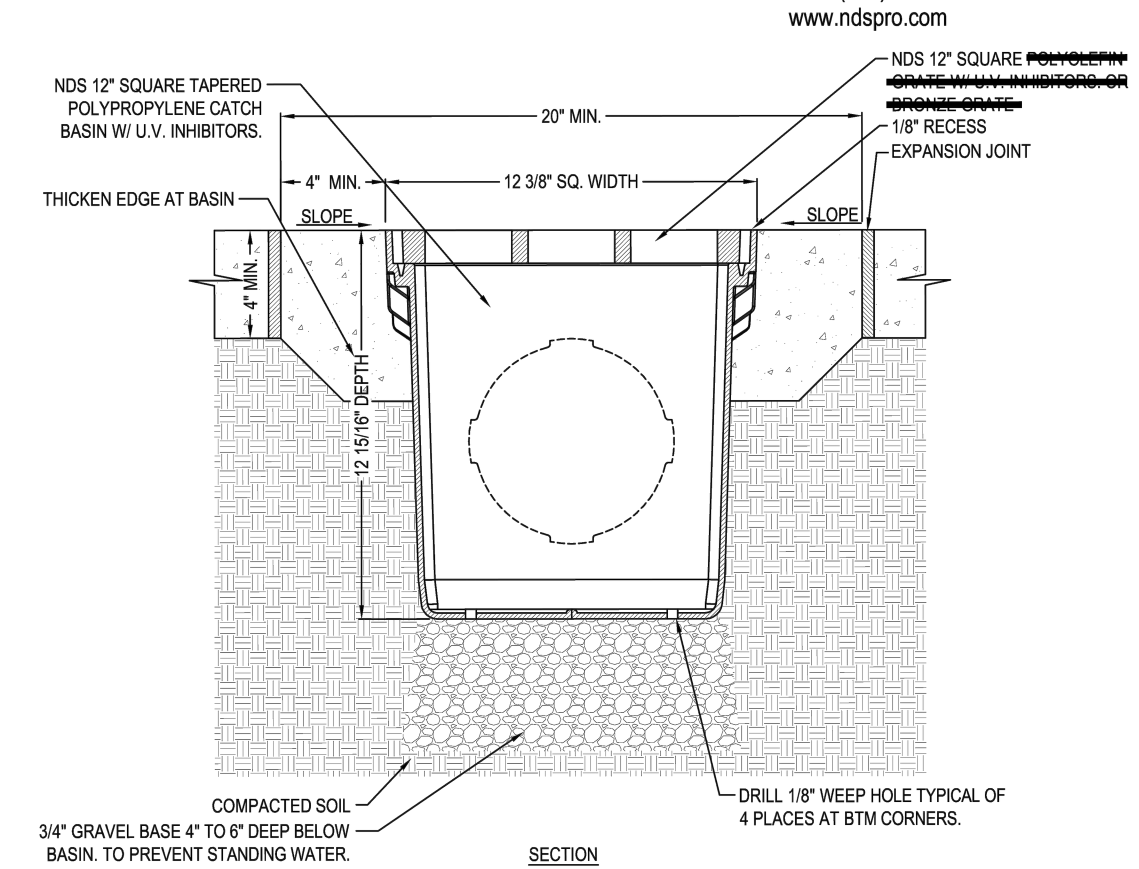

SECTION

NOTES:

1. GRATE TO BE ATTACHED TO CATCH BASIN WITH SCREW PROVIDED AT TIME OF INSTALLATION.
2. BRONZE GRATE TO BE USED IN PEDESTRIAN TRAFFIC APPLICATION ONLY.
3. DO NOT USE OVER 5 RISERS WITH CATCH BASIN.
4. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
5. DO NOT SCALE DRAWING.
6. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.
7. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

SQUARE CATCH BASIN

12" SQUARE CATCH BASIN - TYPICAL INSTALLATION FOR PEDESTRIAN & LIGHT VEHICULAR TRAFFIC APPLICATION LOAD CASE A & B

NDS S5 KEY COMPONENT www.ndspro.com/s5

REVISION DATE 8-24-2015

JAMES GLASCOTT REGISTERED PE12400652 STATE OF INDIANA PROFESSIONAL ENGINEER

WT GROUP JOB NUMBER - C2400072

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WT Group Engineering YDesign YConsulting

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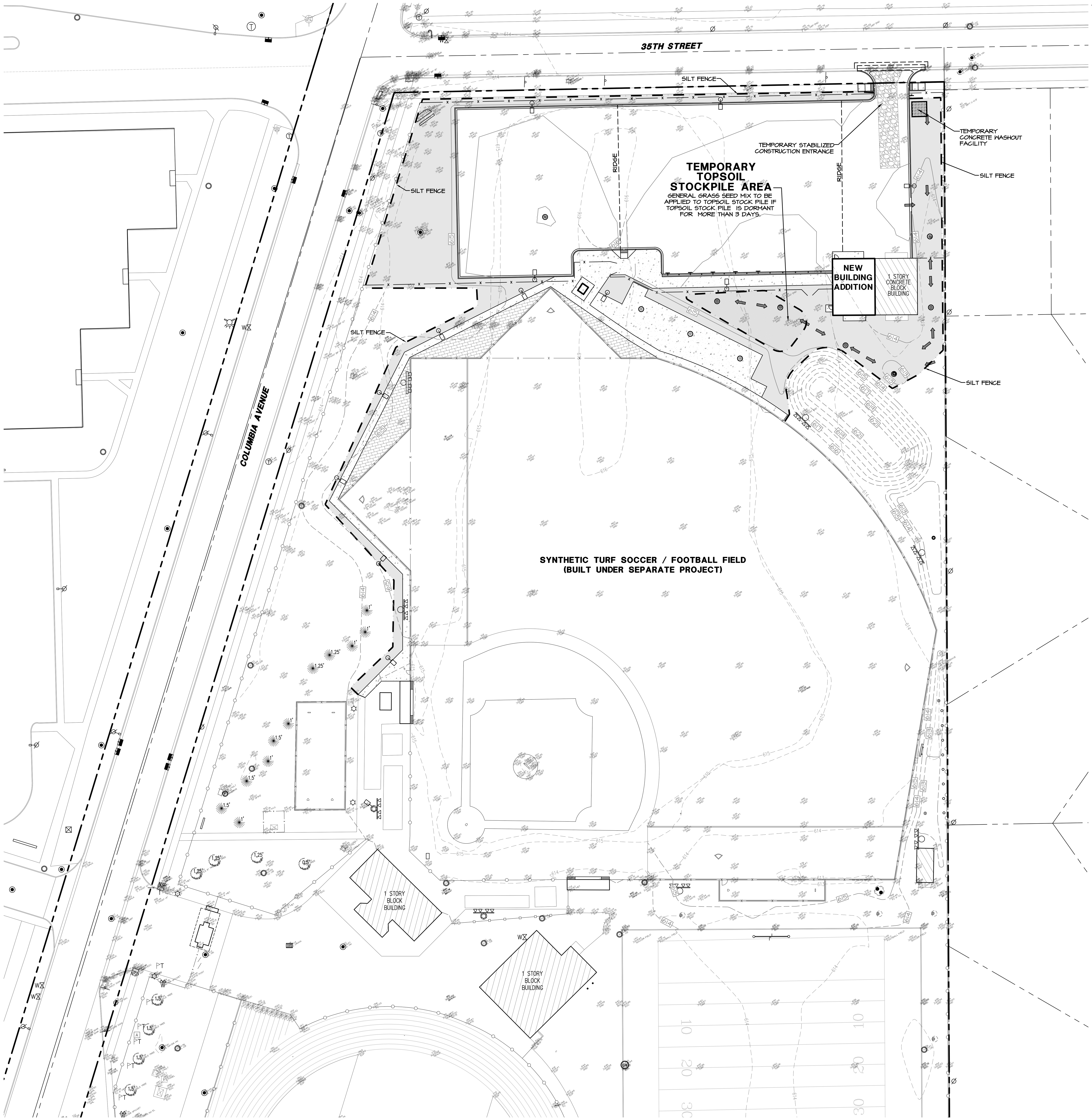
SCHOOL TOWN OF MUNSTER
MUSTER HIGH SCHOOL - NEW PARKING LOT AND STORAGE BUILDING ADDITION
8823 COLUMBIA AVE. MUNSTER, IN 46321

SCHOOL TOWN of MUNSTER

DATE:	DESCRIPTION:
02.04.2025	ISSUED FOR REVIEW
03.11.2025	ISSUED FOR PERMIT

PROJECT # 2024.104
DATE: MARCH 10, 2025
SHEET TITLE: SITE UTILITY DETAILS
SHEET: C-5.1



SWPPP NOTES:

A. ALL DISTURBED GREEN SPACES ON THE SITE SHALL BE RESTORED ACCORDING TO THE SEED BED PREPARATION SPECIFICATIONS BELOW AND BLANKETED OR MATTED AS SHOWN ON THE PLANS.
B. TEMPORARY OR PERMANENT STABILIZATION SHALL OCCUR IMMEDIATELY WHENEVER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE. TEMPORARY STABILIZATION SHALL CONSIST OF THE INSTALLATION OF TEMPORARY SEEDING.
C. CONTRACTOR TO INSTALL TEMPORARY CONSTRUCTION ENTRANCES AS NECESSARY TO EXCAVATE AREAS AND HAUL SOILS ON-SITE. TRACKING OF DEBRIS ON SITE WILL NOT BE TOLERATED. ANY DEBRIS LEFT OUTSIDE OF THE PROJECT LIMITS MUST BE CLEANED IMMEDIATELY.
D. EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS SHALL BE INSTALLED USING 6" BIO-STAKES AS MANUFACTURED BY NORTH AMERICAN GREEN. METAL STAKES AND STAPLES ARE PROHIBITED.
E. CONTRACTOR SHALL PROVIDE ALL NECESSARY MAINTENANCE FOR THE SEDIMENT AND EROSION CONTROL MEASURES FOR THE DURATION OF THE PROJECT.
F. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL STORMWATER POLLUTION PREVENTION PLAN (SWPPP) INSPECTIONS, INSPECTION REPORTS, CORRECTIVE ACTION FORMS, SWPPP AMENDMENT LOGS, SUBCONTRACTOR CERTIFICATIONS/AGREEMENTS, GRADING AND STABILIZATION ACTIVITIES LOGS, SWPPP TRAINING LOGS, AND DELEGATION OF AUTHORITY FORMS FOR THE DURATION OF THE PROJECT.
G. CONTRACTOR SHALL PROVIDE COPIES OF ALL SWPPP REPORTS, FORMS, AND LOGS TO THE WT GROUP ONCE THE SITE HAS BEEN STABILIZED. THE CONTRACTOR SHALL MAINTAIN THESE DOCUMENTS FOR A PERIOD OF 3 YEARS FROM THE FINAL STABILIZATION OF THE SITE.
H. FOLLOWING THE REMOVAL OF THE SILT FENCE, THE CONTRACTOR SHALL RESTORE THE THE SILT FENCE TRENCH WITH SOD.
I. CONTRACTOR SHALL INITIATE STABILIZATION OF ALL DISTURBED AREAS WITHIN ONE CALENDAR DAY.
J. CONTRACTOR SHALL PROVIDE AND IMPLEMENT DEWATERING PLAN IN ACCORDANCE WITH THE GEOTECHNICAL REPORT DATED 09-10-2024 PREPARED BY GEOCON PROFESSIONAL SERVICES, LLC.
K. SEED BED PREPARATION:
  K.A. ALL STONES, ROCKS, DEBRIS LARGER THAN 1" IN DIAMETER SHALL BE REMOVED.
  K.B. DISK OR TILL TOPSOIL TO A DEPTH OF 3" AND REDUCE ALL SOIL PARTICLES TO NO LARGER THAN 2". THE SURFACE SHALL BE FREE OF WEEDS, STONES, ROCKS, STICKS, GULLIES, CLODS, AND DEBRIS.
  K.C. THE AREA SHALL BE FINE GRADED.
  K.D. THE SEED SHALL BE PLACED INTO THE SOIL WITH A MACHINE THAT MECHANICALLY PLACES THE SEED IN DIRECT CONTACT WITH THE SOIL AND COVERS THE SEED WITH THE SOIL.
  K.E. BROADCAST AND HYDROSEED WILL NOT BE ALLOWED.
  K.F. SEEDED AREAS SHALL BE COVERED WITH THE EROSION BLANKET RIGHT AFTER THE SEED HAS BEEN SOWN.
  K.G. ANY SOIL AMENDMENTS NEEDED TO ACHIEVE A 90% HEALTHY STAND OF VEGETATION WILL BE ADDED TO THE SOIL AT NO EXTRA CHARGE TO THE OWNER. THE STAND OF VEGETATION WILL NEED TO BE ACCEPTED BY THE ENGINEER.
  K.H. THE SEED MIX SHALL BE KENTUCKY BLUEGRASS 100LBS/ACRE, REVENGE PERENNIAL RYEGRASS 60 LBS/ACRE, ANNUAL RYE 40 LBS/ACRE AND CREEPING RED FESCUE 40 LBS/ACRE TOTAL.

SWPPP LEGEND

+000.00	EXISTING SPOT GRADE
— 000 —	EXISTING CONTOUR LINE
—[000]—	PROPOSED CONTOUR LINE
	PROPOSED CONTOUR LINE BUILT UNDER SEPARATE CONTRACT
	OVERLAND FLOW ARROW
	100 YEAR OVERLAND FLOW ROUTE
	EXISTING CATCH BASIN / INLET
	EXISTING BEEHIVE CATCH BASIN
	EXISTING MANHOLE
	PROPOSED NYLOPLAST DRAIN BASIN
	PROPOSED INLET
	PROPOSED SQUARE NDS CATCH BASIN
	SILT FENCE
	FLEXSTORM CATCH-IT INLET PROTECTION
	FINE GRADE, FERTILIZE, AND SEED. INSTALL DS75 EROSION CONTROL BLANKET WITH 6" BIO-STAKES AS MANUFACTURED BY NORTH AMERICAN GREEN. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.
	TEMPORARY CONCRETE WASHOUT FACILITY
	DEWATERING SUMP PIT
	DEWATERING BAG

NORTH
1" = 30'
00 15 30 60 120

JAMES GLASCOTT REGISTERED PE12400652 STATE OF INDIANA PROFESSIONAL ENGINEER

WT GROUP JOB NUMBER - C2400072

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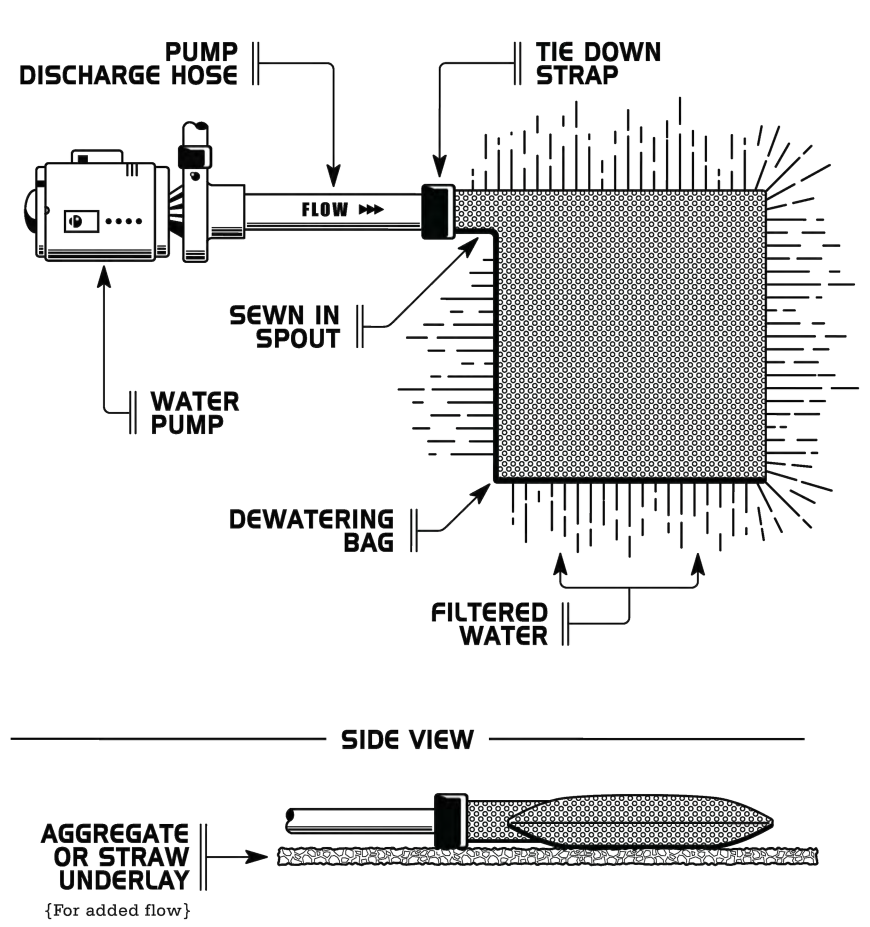
SCHOOL TOWN OF MUNSTER
MUSTER HIGH SCHOOL - NEW PARKING LOT AND STORAGE BUILDING ADDITION
8823 COLUMBIA AVE. MUNSTER, IN 46321

DATE:	DESCRIPTION:
02.04.2025	ISSUED FOR REVIEW
03.11.2025	ISSUED FOR PERMIT

PROJECT # 2024.104
DATE: MARCH 10, 2025
SHEET TITLE: STORMWATER POLLUTION PREVENTION PLAN
SHEET: C-6.0



Practice Standards and Specifications

6.06

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

Definition A graveled area or pad located at points where vehicles enter and leave a construction site.

Purpose To provide a buffer area where vehicles can drop their mud and sediment to avoid transporting it onto public roads, to control erosion from surface runoff, and to help control dust.

Conditions Where Practice Applies Wherever traffic will be leaving a construction site and moving directly onto a public road or other paved off-site area. Construction plans should limit traffic to properly constructed entrances.

Design Criteria **Aggregate Size**—Use 2-3 inch washed stone.

Dimensions of gravel pad—
Thickness: 6 inches minimum
Width: 12-feet minimum or full width at all points of the vehicular entrance and exit area, whichever is greater
Length: 50-feet minimum

Location—Locate construction entrances and exits to limit sediment from leaving the site and to provide for maximum utility by all construction vehicles (Figure 6.06a). Avoid steep grades, and entrances at curves in public roads.

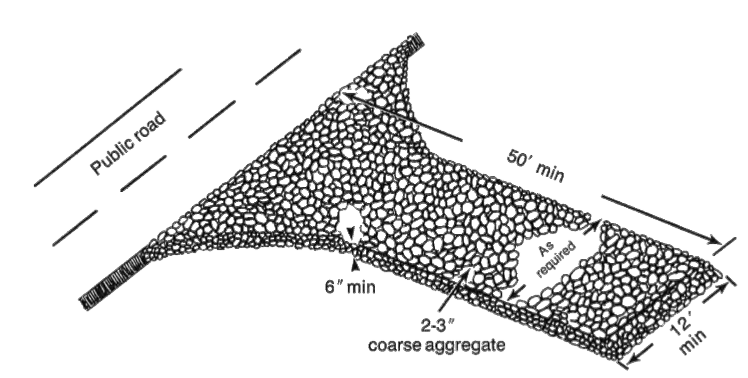


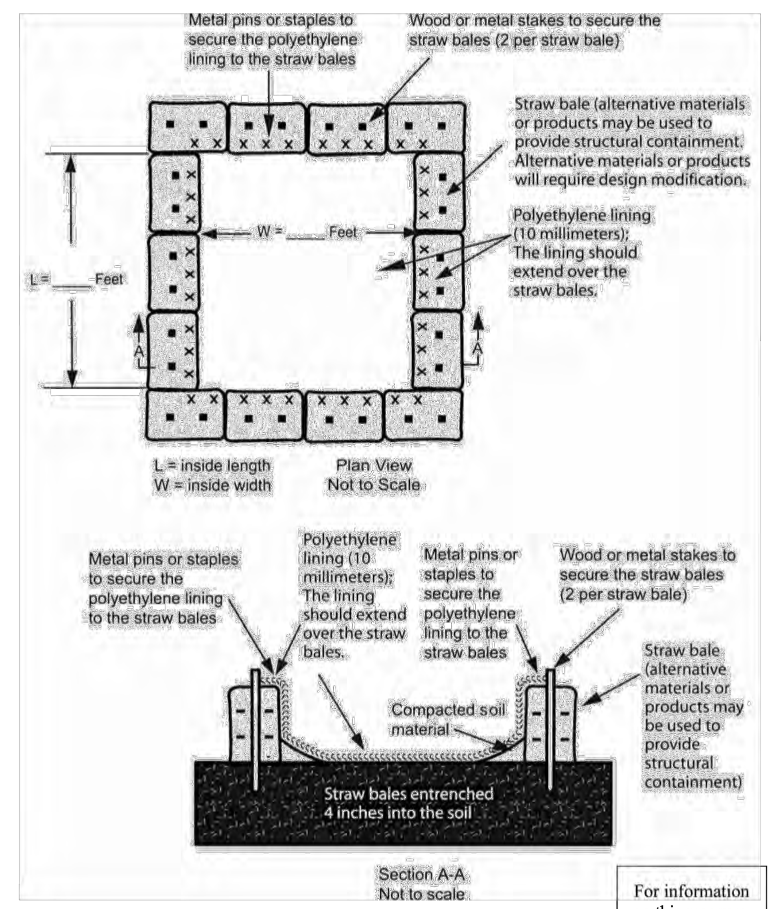
Figure 6.06a Gravel entrance/exit keeps sediment from leaving the construction site (modified from Va SWCC).

TEMPORARY CONSTRUCTION ENTRANCE

NOT TO SCALE

WORKSHEET

Concrete Washout (Above Grade System) Worksheet

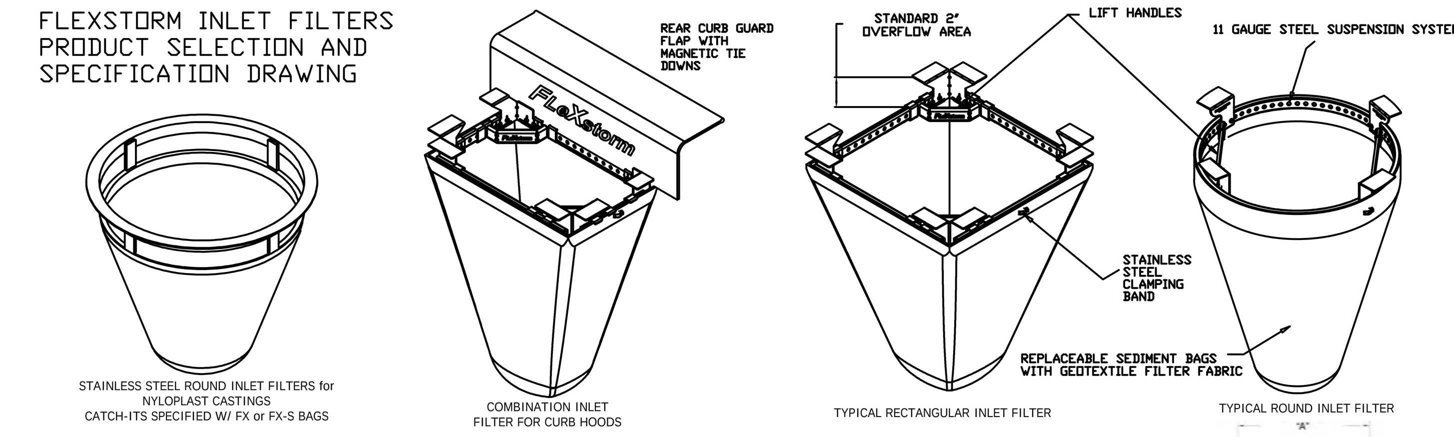


For information on this measure, see Chapter 7, page 247

TEMPORARY WASHOUT AREA

NOT TO SCALE

FLEXSTORM INLET FILTERS PRODUCT SELECTION AND SPECIFICATION DRAWING

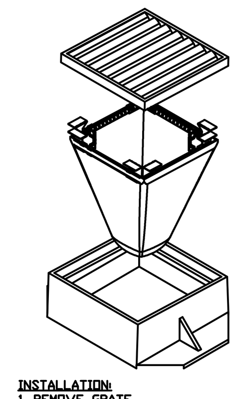


1. INDENTIFY YOUR FRAME STYLE, SIZE, AND MATERIAL

STYLE	FRAME STYLE AND SIZE	Frame P/N:
ROUND	Small Round (up to 20.0" dia grates (A) dim)	62SRD
	Med Round (20.1" - 26.0" dia grates (A) up to 25" dia openings (B))	62MRD
	Large Round (26.1" - 32.0" dia grates (A) up to 30" openings (B))	62LRD
	XL Round (32.1" dia - 39" dia grates (A) up to 37" dia openings (B))	62XLRD
RECT/ SQUARE	Small Rect / Square (up to 16" (B) x 16" (D) openings or 64" perimeter)	62SSQ
	Med Rect / Square (up to 24" (B) x 24" (D) openings or 96" perimeter)	62MSQ
	Large Rect / Square (up to 36" (B) x 24" (D) openings or 120" perimeter)	62LSQ
	XL Rect / Square (side by side 2 pc set to fit up to 48" (B) x 36" (D) openings)	62XLSQ
COMBO INLETS	Small Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62SCB
	Med Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62MCB
	Large Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62LCB
	XL Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62XLCB
NYLOPLAST	12" diameter Nyloplast castings (Stainless Steel Framing standard)	6212NY
	15" diameter Nyloplast castings (Stainless Steel Framing standard)	6215NY
	18"diameter Nyloplast castings (Stainless Steel Framing standard)	6218NY
	24" diameter Nyloplast castings (Stainless Steel Framing standard)	6224NY
	30" diameter Nyloplast castings (Stainless Steel Framing standard)	6230NY
WALL MOUNT	Open Throat Gutters - Curb Opening Size	
	Up to 4' (1 Filter and Mounting Hardware)	62WM1
	Between 4' and 8' (2 Filters and Mounting Hardware)	62WM2
	Between 8' and 12' (3 Filters and Mounting Hardware)	62WM3
	Between 12' and 16' (4 Filters and Mounting Hardware)	62WM4
UPGRADED FRAMING MATERIAL OPTIONS (STANDARD IS ZINC PLATED)		SUFFIX
CHROME PLATED FRAMING FOR HIGH SALT EXPOSURE		- CHR
STAINLESS STEEL FRAMING FOR HIGH SALT AND/OR CHEMICAL EXPOSURE		- SS

2. SELECT YOUR FILTER BAG PART NUMBER

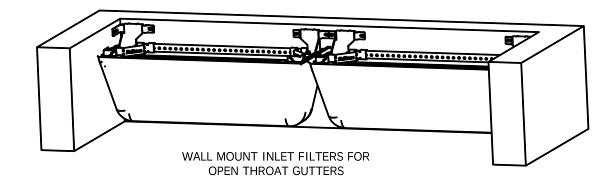
FLEXSTORM FILTER BAGS	(22" depth) STD Bag P/N	(12" depth) Short Bag P/N	Clean Water Flow Rate (GPM/SqFt)	Min A.O.S. (US Sieve)
FX: Standard Woven Bag	FX	FX-S	200	40
FX+: Woven w/ MyCelx	FXP	FXP-S	200	40
FXO: Woven w/ Oil Boom	FXO	FXO-S	200	40
PC: Post Construction Bag	PC	PC-S	137	140
PC+: PC Bag w/ MyCelx	PCP	PCP-S	137	140
LL: Litter and Leaf Bag	LL	LL-S	High	3.5
IL: IDOT Non-Woven Bag	IL	IL-S	145	70



INSTALLATION:
1. REMOVE GRATE
2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
3. REPLACE GRATE

3. CREATE YOUR FLEXSTORM INLET FILTER PART NUMBER

		-	
Frame P/N from Step 1.	Filter Bag P/N from Step 2.		Framing Material



WALL MOUNT INLET FILTERS FOR OPEN THROAT GUTTERS

SPECIFICATIONS FOR STANDARD BAGS BY NOMINAL SIZE						
Nominal Bag Size	Solids Storage (CuFt)	Filtered Flow Rate at 50% Max			* PC Oil Retent (Oz)	**PCP Oil Retent (Oz)
		FX (Woven)	PC (Post Constr)	IL (Non Woven)		
Small	1.6	1.2	0.8	0.9	66	155
Medium	2.1	1.8	1.2	1.3	96	185
Large	3.8	2.2	1.5	1.6	120	209
XL	4.2	3.6	2.4	2.6	192	370

* PC filter bag at 50% max adsorption capacity
** PC filter bag at 50% capacity and MyCelx skimmer at 100% capacity

ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC
DISTRIBUTED BY ADS
WWW.INLETFILTERS.COM
(866) 287-8655 PH
(630) 355-3477 FX
INFO@INLETFILTERS.COM

SIZE	DWG NO	REV
C	IPP Flexstorm Specifications	
SCALE	SHEET 1 OF 1	

DANDY DEWATERING BAG ™ PUMPED WATER SEDIMENT CONTROL SYSTEM GUIDE SPECIFICATIONS

PRODUCT:

DANDY DEWATERING BAG™

MANUFACTURER:

Dandy Products Inc.
P.O. Box 1980
Westerville, Ohio 43086
Phone: 800-591-2284
Fax: 740-881-2791
E Mail dlc@dandyproducts.com
Web www.dandyproducts.com

1.0 **Description:**

1.1 Work covered under this consists of furnishing, installing, maintaining, and removal of the Dandy Dewatering Bag ™ The purpose is to control sediment discharge in any dewatering or pumped water application.

2.0 **Material:**

2.1 The Dandy Dewatering Bag™ shall be a bag sewn of nonwoven fabric **in the U.S.A.** using a double needle machine and a high strength thread.

2.2 The Dandy Dewatering Bag™ shall have a spout opening large enough to accommodate at least a four (4) inch pump discharge hose with an attached strap to tie unit closed.

2.3 The Dandy Dewatering Bag™ Seams shall be a double stitched "J" type seam with an average wide width strength per ASTM D-4884 of 60lb/in for a 8 oz. fabric manufactured in the U.S.A. with the following characteristics:

PROPERTY	TEST METHOD	UNITS	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	0.9 (205)
Grab Tensile Elongation	ASTM D 4632	%	50
Puncture Strength	ASTM D 4833	kN (lbs)	0.58 (130)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	2618 (380)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.36 (80)
% Open Area	COE - 22125-86	%	N/A
Apparent Opening Size	ASTM D 4751	mm (US Std Sieve)	.0180 (80)
Permittivity	ASTM D 4491	sec^{1}	1.2
Permeability	ASTM 4491	cm/sec	0.21
Water Flow Rate	ASTM 4491	$l/min/m^2$ ($gal/min/ft^2$)	3866 (95)
Ultraviolet Resistance	ASTM D 4355	%	70
Color			Black

1

3.0 **Installation:**

3.1 Lifting straps (not included) should be placed under the unit to facilitate removal after use.

3.2 Unfold Dandy Dewatering Bag™ on a stabilized area over dense vegetation, straw, or gravel (if an increased drainage surface is needed) or as detailed in plans.

3.3 Insert discharge hose from pump into Dandy Dewatering Bag™ a minimum of six (6) inches and tightly secure with attached strap to prevent water from flowing out of the unit without being filtered.

4.0 **Maintenance:**

4.1 Replace the unit when ½ full of sediment or when sediment has reduced the flow rate of the pump discharge to an impractical rate.

4.2 Remove and dispose of the sediment in a manner satisfactory to the engineer/inspector or in one of the following ways:

A) Remove the unit and sediment from environmentally sensitive areas and waterways. At the approved disposal site, slit the unit; remove the sediment and grade smoothly into the existing topography. Dispose of unit no longer in use at an appropriate recycling or solid waste facility.

B) Bury unit on site; remove any visible fabric and seed.

5.0 **Method of Measurement:**

5.1 The quantity to be paid is for the actual number of Dandy Dewatering Bags ™.

2

6.0 **Basis of Payment:**

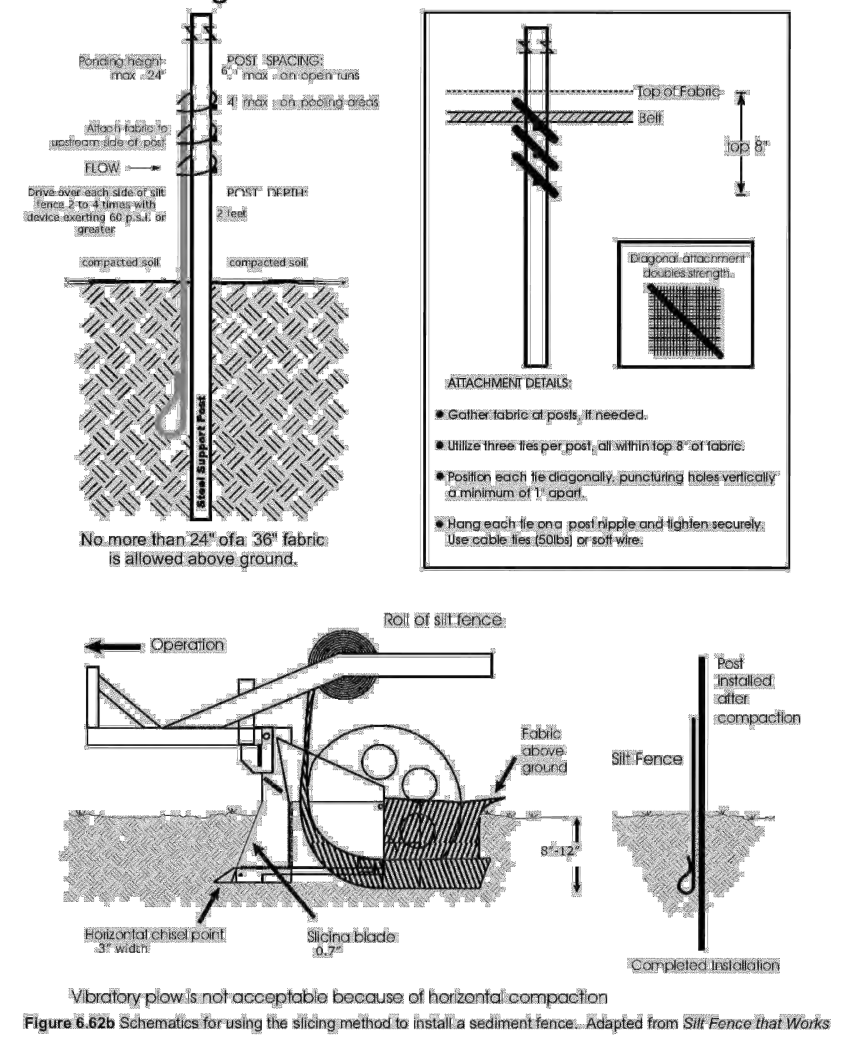
6.1 The unit price shall include labor, equipment, and materials necessary to install, maintain, and remove the Dandy Dewatering Bag™.
6.2 Payment for the completed work will be made at the contract prices for:

ITEM	UNIT	DESCRIPTION
Dandy Dewatering Bag™	EA	Pumped Water Sediment Control Unit (#__________UNITS)

3

6

The Slicing Method

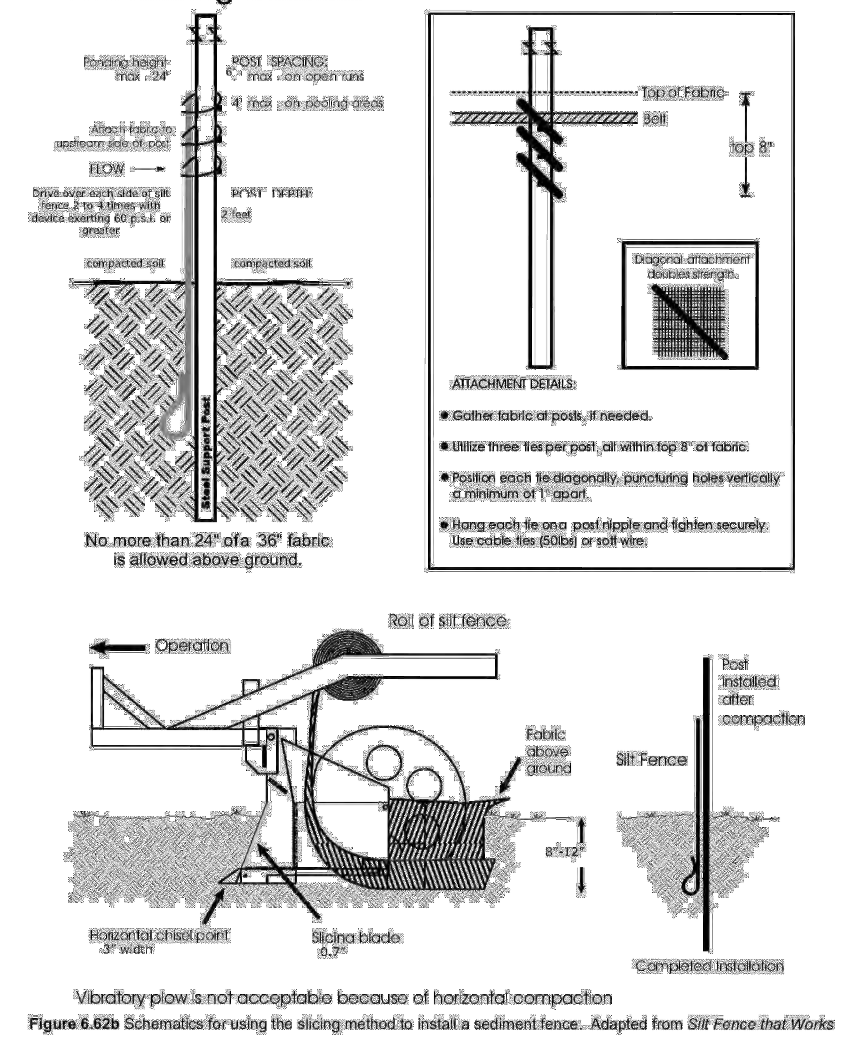


Vibratory plow is not acceptable because of horizontal compaction

Figure 6.62b Schematics for using the slicing method to install a sediment fence. Adapted from *Silt Fence that Works*

6

The Slicing Method



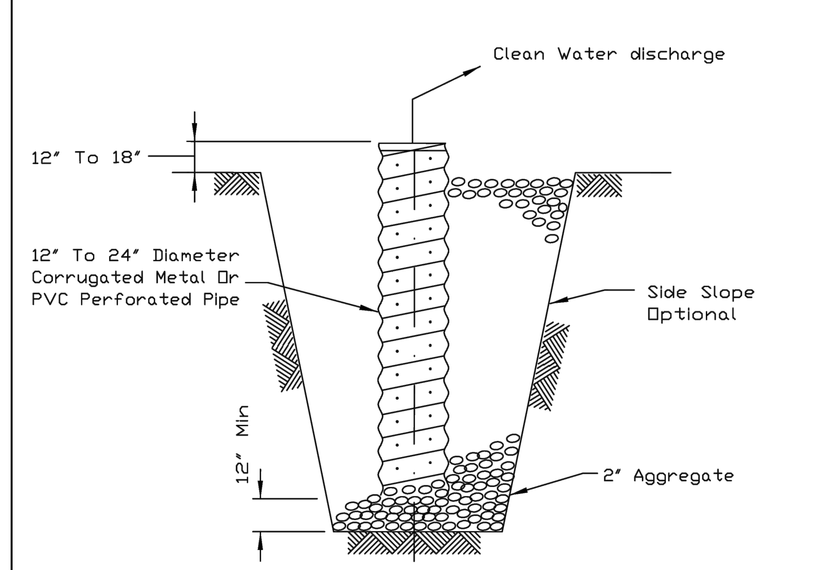
Vibratory plow is not acceptable because of horizontal compaction

Figure 6.62b Schematics for using the slicing method to install a sediment fence. Adapted from *Silt Fence that Works*

SILT FENCE

NOT TO SCALE

SUMP PIT PLAN



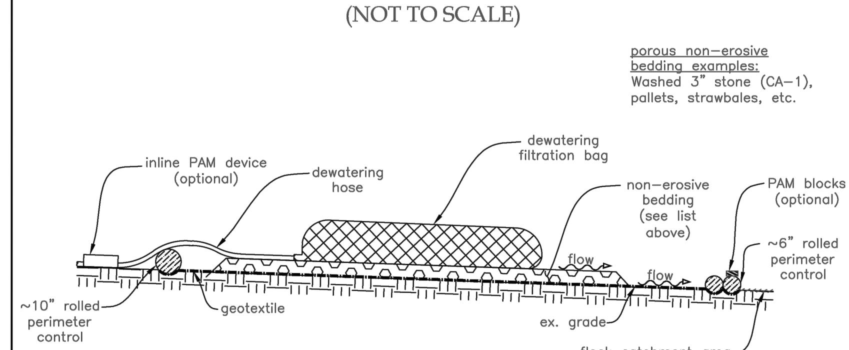
SECTION

NOTES:
1. Pit dimensions are optional.
2. The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.
3. A base of 2" aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2" aggregate.
4. The standpipe will extend 12" to 18" above the lip of the pit.
5. If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
6. If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

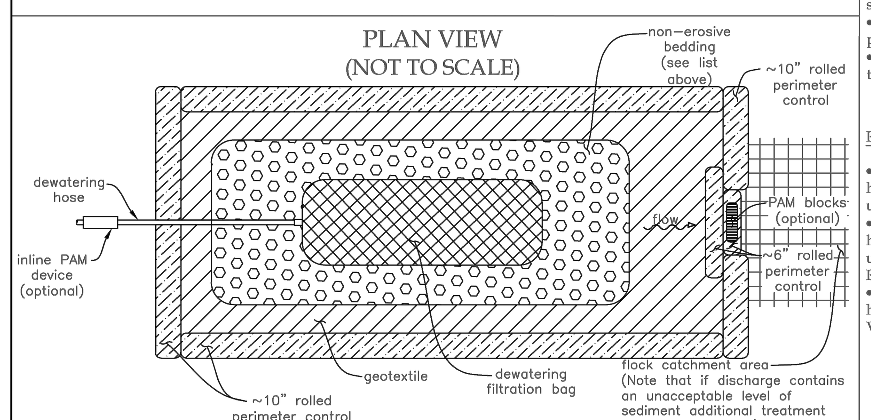
REFERENCE		STANDARD DWG. NO.
Project ______	NRCS Natural Resources Conservation Service	IL-650
Designed ______ Date ______		SHEET 1 OF 1
Checked ______ Date ______		DATE 8-11-94
Approved ______ Date ______		

SITE DEWATERING DETAIL

CROSS SECTION VIEW
(NOT TO SCALE)



PLAN VIEW
(NOT TO SCALE)



NOTES:

- This detail provides general guidance on dewatering setup options. Site and project specific details, including manufacturer recommendations should be considered. Final dewatering design requires approval by the Enforcement Officer. The Enforcement Officer, or approved representative, must be present at the commencement of dewatering activities.
- Rolled perimeter control must be entrenched and staked in unless the product is self-bedding. [compost sock, fiber rolls, or similar]
- Dewatering bag must be monitored frequently during use, this includes checking on flow and fill capacity.
- Sediment shall be removed from the catchment area and the system restored to its original design when sediment has accumulated to cover half of the catchment area.
- Adjoining properties and discharge locations shall be protected from erosion and sedimentation.
- Ensure proper overlap where rolled perimeter control ends meet.
- Elevate bag on porous non-erosive bedding to properly drain (maximize surface area).

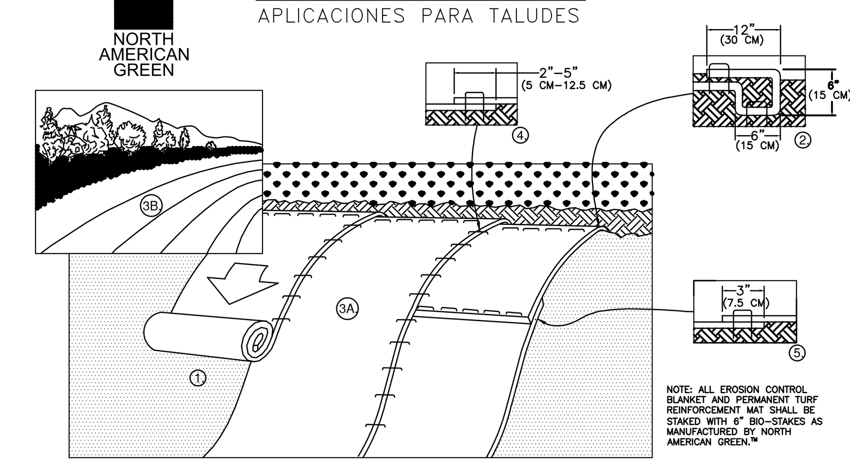
REFERENCES:

- Dewatering: https://illinoisurbanmanual.org/wp-content/uploads/2019/01/813-Dewatering-9-25-2018.pdf
- PAM (polyacrylamide): https://illinoisurbanmanual.org/wp-content/uploads/2018/08/PAM-for-Turbidity-Reduction-and-Sediment-Control-1.pdf
- SESC Notes: https://www.lakecountyil.gov/DocumentCenter/View/3415/SESC-Construction-Notes-2013-PDF

Date: 10/2022

NORTH AMERICAN GREEN

SLOPE INSTALLATION
APLICACIONES PARA TALUDES



NOTE: ALL EROSION CONTROL BLANKET AND PERMANENT TURF REINFORCEMENT MAT SHALL BE STAKED WITH 6" BIO-STAKES AS MANUFACTURED BY NORTH AMERICAN GREEN.™

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM , STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" – 5" (5 CM – 12.5 CM) OVERLAP DEPENDING ON BLANKET TYPE.

5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE: *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

ALL BLANKETS SHALL BE INSTALLED WITH 6" BIOSTAKES.

JAMES GLASCOTT
REGISTERED
PE12400652
STATE OF INDIANA
PROFESSIONAL ENGINEER

WT GROUP JOB NUMBER - C2400072

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8823 COLUMBIA AVE. MUNSTER, IN 46321

DATE:	DESCRIPTION:
02.04.2025	ISSUED FOR REVIEW
03.11.2025	ISSUED FOR PERMIT

PROJECT # 2024.104
DATE: MARCH 10, 2025
SHEET TITLE: SITE UTILITY DETAILS
SHEET: C-6.1

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING:
   - 1.1. INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS," LATEST EDITION.
   - 1.2. AMERICAN WATER WORKS ASSOCIATION STANDARDS.
   - 1.3. INDIANA STORM WATER QUALITY MANUAL CURRENT EDITION.
   - 1.4. BUILDING CODES AND ORDINANCES OF THE LOCAL GOVERNING AUTHORITIES.
   - 1.5. UNITED STATES DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, 29 CFR PART 1926, "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION."
   - 1.6. INDIANA DRAINAGE LAW.
   - 1.7. AMERICANS WITH DISABILITIES ACT.
   - 1.8. INDIANA ENVIRONMENTAL PROTECTION AGENCY REQUIREMENTS.
   - 1.9. TITLE 320, 325, 325.1 AND 330 OF THE INDIANA ADMINISTRATIVE CODE.
2. ALL REQUIRED PERMITS FROM THE APPROPRIATE GOVERNING AGENCY(S) SHALL BE OBTAINED FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHEETING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE ALL NECESSARY REPAIRS AT HIS EXPENSE AND TO THE SATISFACTION OF THE GOVERNING AGENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNAGE AND TRAFFIC CONTROL DEVICES TO INFORM AND PROTECT THE PUBLIC.
3. CONTRACTOR SHALL NOTIFY THE LOCAL ENGINEERING OR PUBLIC WORKS DEPARTMENT AND/OR OTHER GOVERNING AUTHORITY(S) 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ON EACH MAJOR CATEGORY OF WORK, INCLUDING BUT NOT LIMITED TO, ANY PUBLIC IMPROVEMENTS, ROADWAY CLOSURES OR UTILITY INSTALLATIONS. 72 HOUR NOTICE SHALL BE GIVEN FOR ANY WORK ITEM THAT REQUIRES INSPECTION AND TESTING SUCH AS SANITARY SEWER OR WATER MAIN INSTALLATION.
4. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES (GAS, ELECTRIC, TELEPHONE, CABLE, ETC.) AND THE LOCAL MUNICIPALITY TO DETERMINE THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ORDER TO AVOID POTENTIAL CONFLICTS. CONTRACTOR SHALL CALL THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (J.U.L.I.E.) AT 1-800-892-0123 OR BY DIALING 811. IT IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER INDICATED ON THE PLANS OR NOT AND TO HAVE THESE UTILITIES STAKED PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PRIVATE AND PUBLIC UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE AND TO THE SATISFACTION OF THE UTILITY OWNER.
6. ALL EASEMENTS FOR EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS PREPARED BY THE ENGINEER ACCORDING TO INFORMATION AVAILABLE FROM PUBLIC RECORDS OR VISIBLE FIELD MARKINGS. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND FOR THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SO THE CONFLICT MAY BE RESOLVED.
7. ALL UTILITY CONNECTIONS TO EXISTING LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES AND REGULATIONS AND TO THE SATISFACTION OF THE APPLICABLE UTILITY OWNER(S).
8. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, COORDINATES AND ELEVATIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES SO THE CONFLICT MAY BE RESOLVED.
9. ALL PROPERTY MARKERS AND REFERENCE MARKERS SHALL BE CAREFULLY PRESERVED DURING CONSTRUCTION UNTIL THEIR LOCATION HAS BEEN WITNESSED OR OTHERWISE TIED IN BY AN AUTHORIZED AGENT OR PROFESSIONALLY LICENSED SURVEYOR.
10. THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS SHALL BE PROVIDED WHERE CONSTRUCTION OPERATIONS ABUT PUBLIC THROUGH-FARES AND ADJACENT PROPERTY.
11. ALL AREAS DISTURBED BY THE GENERAL CONTRACTOR OR SUB-CONTRACTORS SHALL BE RETURNED TO THE ORIGINAL CONDITIONS OR BETTER, EXCEPT WHERE PROPOSED CONSTRUCTION IS INDICATED ON THE PLANS.
12. NO BURNING OR INCINERATION OF RUBBISH WILL BE PERMITTED ON SITE.
13. PRIOR TO INITIAL ACCEPTANCE BY THE OWNER(S) AND/OR GOVERNING AUTHORITY, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER AND MUNICIPALITY ENGINEER OR HIS REPRESENTATIVE(S). THE CONTRACTOR SHALL GUARANTEE HIS WORK FOR A PERIOD OF 18 (EIGHTEEN) MONTHS FROM THE DATE OF SUBSTANTIAL COMPLETION AND SHALL BE HELD RESPONSIBLE FOR ANY DEFECTS IN MATERIAL OR WORKMANSHIP OF THIS WORK DURING THAT PERIOD AND UNTIL FINAL ACCEPTANCE IS MADE.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE WORKING CONDITIONS THROUGHOUT THE DURATION OF CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
15. CONTRACTOR SHALL KEEP THE PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS AND, WHEN NECESSARY, CLEAN PAVEMENTS AT THE END OF EACH WORKING DAY.
16. ALL CONSTRUCTION STAKING, SCHEDULING AND PAYMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.
17. THREE (3) ORIGINAL COPIES OF ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR (BUT NOT LIMITED TO) THE FOLLOWING ITEMS:
   - 17.1. ASPHALT PAVEMENT MIX DESIGN
   - 17.2. CONCRETE MIX DESIGN
   - 17.3. GRANULAR MATERIAL GRADATION
   - 17.4. PRECAST CONCRETE STRUCTURES (MANHOLES, INLETS, CATCH BASINS, VAULTS, ETC.)
   - 17.5. WATER MAIN MATERIALS (VALVES, FIRE HYDRANTS, ETC.)
18. AFTER COMPLETION OF THE PROPOSED IMPROVEMENTS AND WHEN REQUIRED BY THE GOVERNING AUTHORITY(S), CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH AS-BUILT AND/OR RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONALLY LICENSED ENGINEER OR SURVEYOR AND SHALL INCLUDE AT A MINIMUM (WHERE APPLICABLE TO THE SCOPE OF WORK) THE FOLLOWING ITEMS:
   - 19.1 TOPOGRAPHY AND SPOT GRADE ELEVATIONS OF ALL PROPOSED PERMANENT SITE FEATURES INCLUDING ANY STORM WATER FACILITIES OR MODIFICATIONS TO EXISTING STORM WATER FACILITIES.
   - 19.2 HORIZONTAL AND VERTICAL LOCATION AND ALIGNMENT OF ALL PROPOSED ROADWAYS, PARKING LOTS, UTILITIES, BUILDINGS OR OTHER PERMANENT SITE FEATURES.
   - 19.3 RIM AND INVERT AND/OR TOP OF PIPE ELEVATIONS FOR ALL PROPOSED UTILITIES.
   - 19.4 AS-BUILT AND/OR RECORD DRAWING INFORMATION SHALL BE SHOWN ON THE APPROVED ENGINEERING PLANS ISSUED FOR CONSTRUCTION. ANY AND ALL DEVIATIONS FROM THESE APPROVED PLANS SHALL BE SHOWN BY MEANS OF STRIKING THROUGH THE PROPOSED INFORMATION AND CLEARLY INDICATING THE AS-BUILT LOCATIONS AND ELEVATIONS ON THE APPLICABLE PLAN SHEET.

SITE GRADING AND PAVING

1. ALL SITE WORK, GRADING, AND PAVING OPERATIONS WITHIN THE LIMITS OF THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS," LATEST EDITION ("STANDARD SPECIFICATIONS"), ANY SPECIAL PROVISIONS, THE NOTES IN THE PLANS AND IN ACCORDANCE WITH THE CODES AND ORDINANCES OF THE GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
2. EARTH EXCAVATION SHALL INCLUDE CLEARING, STRIPPING AND STOCKPILING TOPSOIL, REMOVING UNSUITABLE MATERIALS, CONSTRUCTION OF EMBANKMENTS, NON-STRUCTURAL FILLS, FINAL SHAPING AND TRIMMING TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE PLANS. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE "STANDARD SPECIFICATIONS." ALL UNSUITABLE OR EXCESS MATERIAL SHALL BE DISPOSED OF OFF-SITE OR AS DIRECTED BY THE PROJECT REPRESENTATIVE IN THE FIELD.
3. EXCAVATED TOPSOIL SHALL BE STOCKPILED ON THE SITE IN AREAS DESIGNATED BY THE PROJECT ENGINEER UNTIL SUCH TIME THAT THIS TOPSOIL CAN BE USED FOR FINAL GRADING. UNLESS OTHERWISE NOTED ON THE PLANS, A MINIMUM OF 6" TOPSOIL RE-SPREAD AND SEEDING FOR ALL DISTURBED AREAS IS REQUIRED.
4. THE SOILS INVESTIGATION REPORT FOR THE SITE AND ALL ADDENDA THERETO ARE SUPPORTING DOCUMENTS FOR THIS PROJECT. THE RECOMMENDATIONS AS STATED IN SAID REPORT ARE HEREBY INCORPORATED INTO THESE CONSTRUCTION NOTES BY REFERENCE AND SHALL BE FOLLOWED BY ALL CONTRACTORS. THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS OR BUILDING PADS, BY A SOILS ENGINEER OR HIS REPRESENTATIVE. FURTHER CONSTRUCTION OPERATIONS WILL NOT BE PERMITTED UNTIL THE SOILS ENGINEER ISSUES A WRITTEN STATEMENT THAT THE AREA IN QUESTION HAS BEEN SATISFACTORILY PREPARED AND IS READY FOR CONSTRUCTION.
5. ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, UNSUITABLE SOIL REMOVAL AND ITS REPLACEMENT AND OTHER SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL USE CARE IN GRADING NEAR TREES, SHRUBS, AND BUSHES WHICH ARE NOT NOTED TO BE REMOVED SO AS NOT TO CAUSE INJURY TO ROOTS OR TRUNKS.
7. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO THESE EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT HIS OWN EXPENSE.
8. REMOVED DRIVEWAY PAVEMENT, SIDEWALK, CURBS, TREES AND STUMPS SHALL BE DISPOSED OF LEGALLY OFF-SITE AT LOCATIONS DETERMINED BY THE CONTRACTOR.
9. ON AND OFF SITE PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, AND, IF DAMAGED, SHALL BE REPLACED PROMPTLY TO MEET STATE AND LOCAL STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP.
10. PROPOSED ELEVATIONS INDICATE FINISHED GRADE CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THE THICKNESS OF THE PROPOSED PAVING (ROADS, WALKS, DRIVE, ETC.) SECTION OR TOPSOIL AS INDICATED ON THE PLANS.
11. CONTRACTOR SHALL PROVIDE SMOOTH VERTICAL CURVES THROUGH THE HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS ON THE PLANS. CONTRACTOR SHALL PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES AND AVOID ANY RIDGES AND/OR DEPRESSIONS.
12. ALL PROPOSED GRADING, PAVEMENT, APRONS, CURBS, WALKS, ETC. SHALL MATCH EXISTING GRADES FLUSH.
13. ALL EXISTING AND PROPOSED TOP OF FRAME ELEVATIONS FOR STORM, SANITARY, WATER AND OTHER UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED GRADE WITHIN THE PROJECT LIMITS.
14. ALL CONCRETE POURED SHALL BE:
   - 14.1. MINIMUM COMPRESSIVE STRENGTH:
     - 14.1.1. 3,500 P.S.I. AT 14 DAYS (PER I.N.D.O.T.)
     - 14.1.2. 4,500 P.S.I. AT 28 DAYS (PER A.C.I.)
   - 14.2. MAX WATER-CEMENTITIOUS MATERIALS RATIO: 0.44 (AIR-ENTRAINED)
   - 14.3. AIR CONTENT: 6%, +/- 1.5% AT POINT OF DELIVERY FOR EXPOSED CONCRETE
15. WHEN FIBER MESH REINFORCEMENT IS SPECIFIED, IT SHALL CONSIST OF FIBRIIIATED POLYPROPYLENE FIBERS ENGINEERED AND DESIGNED FOR USE IN CONCRETE PAVEMENT, COMPLYING WITH ASTM C 1116, TYPE III, $\frac{1}{2}$ TO $\frac{3}{4}$ INCHES LONG. FIBERS SHALL BE UNIFORMLY DISPERSED IN THE CONCRETE MIXTURE AT THE MANUFACTURER'S RECOMMENDED RATE, BUT NOT LESS THAN 1.5 LBS / CU. YD.
16. THE GRADING AND CONSTRUCTION OF THE PROPOSED PAVEMENT IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORM WATER. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE AND MATCH EXISTING GRADES FLUSH.
17. CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE END OF EACH WORKING DAY DURING CONSTRUCTION OPERATIONS. FAILURE TO PROVIDE ADEQUATE DRAINAGE WILL PRECLUDE THE CONTRACTOR FROM ANY POSSIBLE COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT.
18. DRIVEWAYS SHALL BE CONSTRUCTED SO AS NOT TO IMPEDE THE SURFACE DRAINAGE SYSTEM.
19. TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARDS AND SHALL BE INSTALLED AND PROVIDED WHENEVER CONSTRUCTION FOR UTILITIES ARE WITHIN STREET AREAS. APPLICABLE ORDINANCES OF THE MUNICIPALITY, COUNTY OR STATE SHALL ALSO GOVERN THE TRAFFIC CONTROL REQUIREMENTS.
20. EXISTING PAVEMENT AGGREGATE BASE COURSE SHALL NOT BE RE-USED AS AGGREGATE BASE COURSE FOR THE NEW PAVEMENT SECTION.

STORM SEWERS

1. ALL STORM SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS," LATEST EDITION ("INDOT STANDARD SPECIFICATIONS"), ANY SPECIAL PROVISIONS, THE NOTES ON THE PLANS, AND IN ACCORDANCE WITH THE CODES AND ORDINANCES OF THE GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
2. ALL STORM SEWER PIPE AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS."
3. ALL PRECAST CONCRETE STRUCTURES SHALL BE REINFORCED AND DESIGNED FOR HS-20 LOADING UNLESS OTHERWISE NOTED.
4. ALL RCP STORM SEWER PIPE 12" IN DIAMETER AND LARGER SHALL BE REINFORCED CONCRETE PIPE, CLASS IV, PER ASTM C-76 WITH FLEXIBLE (O-RING) GASKET JOINTS IN CONFORMANCE WITH ASTM C-443 AND SECTION 31-1.08 OF THE "STANDARD SPECIFICATIONS." ALL 10" DIAMETER RCP STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS V.
5. ALL HDPE STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE PIPE PER ASTM F-2306 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D-3212.
6. ALL PVC STORM SEWER PIPE SHALL BE POLYVINYL CHLORIDE SDR 26 PIPE PER ASTM D-3034 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D-3212, UNLESS OTHERWISE NOTED.
7. ALL STORM SEWER TRENCH EXCAVATIONS AND PIPE FOUNDATION, BEDDING AND HAUNCHING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE "STANDARD SPECIFICATIONS."
   - 7.1. ALL STORM SEWERS MUST BE PLACED ON PROPERLY COMPACTED STONE BEDDING. PIPE BEDDING MATERIAL SHALL BE A MINIMUM OF FOUR (4) INCHES THICK UNDER THE BARREL OF THE PIPE AND FOR PVC PIPE, MATERIAL SHALL BE EXTENDED A MINIMUM OF 12" OVER THE TOP OF THE PIPE PER ASTM D-2321. PIPE BEDDING MATERIAL SHALL BE CRUSHED GRAVEL OR STONE MEETING INDOT GRADATION #53.
   - 7.2. TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY, PER ASTM D-1557, OVER ALL STORM SEWERS WHICH ARE CONSTRUCTED UNDER, OR WITHIN TWO (2) FEET OF, ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS OR SIDEWALKS.
8. ALL REQUIRED STORM STRUCTURE RIM ADJUSTMENTS SHALL BE MADE WITH PRECAST CONCRETE ADJUSTING RINGS NOT TO EXCEED A MAXIMUM OF EIGHT (8) INCHES IN OVERALL HEIGHT. A MAXIMUM OF TWO (2) ADJUSTING RINGS ARE ALLOWED. BUTYLROPE JOINT SEALANT SHALL BE USED ON ALL JOINTS BETWEEN THE PRECAST ELEMENTS.
9. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR EXTENDED TO OUTLET INTO A PROPOSED DRAINAGE WAY. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE OPERATING CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE OWNER AND/OR ENGINEER UPON COMPLETION OF THE PROJECT AND ACCURATELY SHOWN ON THE RECORD DRAWINGS.

SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION SCHEDULE

1. OBTAIN NPDES AND OTHER APPLICABLE SITE PERMITS AND REVIEW PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP). CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND UPDATING THE SWPPP THROUGHOUT THE DURATION OF CONSTRUCTION AS NECESSARY UNTIL FINAL SITE STABILIZATION IS ACHIEVED.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
3. INSTALL PERIMETER SEDIMENT CONTROL MEASURES (E.G. SILT FENCE).
4. INSTALL PROTECTION DEVICES FOR EXISTING DRAINAGE INLET AND OUTLET STRUCTURES, IF APPLICABLE.
5. PERFORM STORMWATER POLLUTION PREVENTION SITE INSPECTIONS ON A WEEKLY BASIS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCH OR GREATER (OR EQUIVALENT SNOWFALL). AT A MINIMUM, THE INSPECTIONS SHALL INCLUDE THE DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, ALL STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND ANY ADDITIONAL BEST MANAGEMENT PRACTICES IDENTIFIED IN THE SWPPP.
   - 5.1. ALL SITE EROSION AND SEDIMENT CONTROL MEASURES AND BEST MANAGEMENT PRACTICES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE CONTINUOUSLY MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION (SEE THE STORMWATER POLLUTION PREVENTION NOTES AND STORMWATER POLLUTION PREVENTION MAINTENANCE SCHEDULE FOR ADDITIONAL INFORMATION). CONTRACTOR SHALL MAKE AND COMPLETE THE REQUIRED REPAIRS WITHIN FORTY-EIGHT (48) HOURS OF THE INSPECTION.
   - 5.2. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL STRUCTURAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE SITE INSPECTIONS.
   - 5.3. PERFORM STREET CLEANING OPERATIONS AND OTHER BEST MANAGEMENT PRACTICES AS NEEDED.
6. PERFORM SITE CLEARING AND GRUBBING AND REMOVE EXISTING VEGETATION AS NEEDED FOR INITIAL SITE GRADING OPERATIONS. VEGETATED SITE AREAS THAT ARE NOT INCLUDED WITH THE INITIAL GRADING SHALL REMAIN UNDISTURBED. ALL TOPSOIL STOCKPILES SHALL BE SURROUNDED WITH SILT FENCE AND STABILIZED WITHIN THREE (3) DAYS OF FORMING THE STOCKPILE.
7. REMOVE ALL ITEMS NOTED FOR REMOVAL IN THE DEMOLITION PLAN.
8. PERFORM ROUGH GRADING OPERATIONS, CONSTRUCT OVERFLOW ROUTES, AND STABILIZE ALL DISTURBED AREAS, INCLUDING BUT NOT LIMITED TO STEEP SLOPES, DRAINAGE CHANNELS AND SWALES (I.E. TEMPORARY AND PERMANENT SEEDING, EROSION CONTROL BLANKETS, RIP-RAP, CHECK DAMS, TEMPORARY DRAINAGE DIVERSIONS, ETC.).
9. INSTALL TEMPORARY CONCRETE WASHOUT FACILITY.
10. INSTALL BUILDING FOUNDATIONS AND BEGIN BUILDING CONSTRUCTION.
11. INSTALL DETENTION SYSTEMS, STORM SEWERS AND OTHER SITE UTILITIES AND IMMEDIATELY INSTALL DRAINAGE INLET AND OUTLET PROTECTION DEVICES AS INDICATED ON THE PLANS.
12. PROVIDE TEMPORARY SEEDING AND/OR MULCHING FOR ALL DISTURBED SITE AREAS THAT WILL NOT BE WORKED ON FOR MORE THAN FOURTEEN (14) DAYS.
13. INSTALL CURBS AND BEGIN SITE PAVING OPERATIONS (I.E. DRIVEWAYS, SIDEWALKS, ETC.).
14. COMPLETE BUILDING CONSTRUCTION AND REMAINING SITE IMPROVEMENTS.
15. REMOVE TEMPORARY SITE EROSION AND SEDIMENT CONTROL MEASURES WITHIN THIRTY (30) DAYS OF FINAL SITE STABILIZATION.
16. SUBMIT A NOTICE OF TERMINATION (N.O.T.) TO THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT UPON COMPLETION OF ALL SITE CONSTRUCTION AND FINAL SITE STABILIZATION (I.E. OVER 70% VEGETATIVE COVER).

STORMWATER POLLUTION PREVENTION NOTES

1. COPIES OF THE APPROVED STORM WATER POLLUTION PREVENTION PLANS SHALL BE MAINTAINED ON THE SITE AT ALL TIMES ALONG WITH THE PERMIT, INCIDENT OF NON-COMPLIANCE (I.O.N.) FORM AND INSPECTION FORMS.
2. CONTRACTOR SHALL PROVIDE COPIES OF ALL SWPPP REPORTS, FORMS, AND LOGS TO THE WT GROUP ONCE THE SITE HAS BEEN STABILIZED. THE CONTRACTOR SHALL MAINTAIN THESE DOCUMENTS FOR A PERIOD OF 3 YEARS FROM THE FINAL STABILIZATION OF THE SITE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL STORMWATER POLLUTION PREVENTION PLAN (SWPPP) INSPECTIONS, INSPECTION REPORTS, CORRECTIVE ACTION FORMS, SWPPP AMENDMENT LOGS, SUBCONTRACTOR CERTIFICATIONS/AGREEMENTS, GRADING AND STABILIZATION ACTIVITIES LOGS, SWPPP TRAINING LOGS, AND DELEGATION OF AUTHORITY FORMS FOR THE DURATION OF THE PROJECT.
   - 3.1. INDIANA QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCH OR GREATER (OR EQUIVALENT SNOWFALL). REQUIRED REPAIRS SHOULD BE COMPLETED WITHIN FORTY-EIGHT (48) HOURS OF THE INSPECTION.
   - 3.2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUBCONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE INDIANA EPA.
4. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AND FUNCTIONAL BEFORE THE SITE IS OTHERWISE DISTURBED. THEY SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SITE STABILIZATION HAS BEEN ACHIEVED.
5. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAT INDICATED ON THESE PLANS (INCLUDING BUT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED FOR REVIEW.
6. THE GOVERNING AUTHORITIES HAVING JURISDICTION OVER THE PROJECT SITE MUST BE NOTIFIED ONE (1) WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE (1) WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE (1) WEEK PRIOR TO THE FINAL INSPECTION.
7. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE GOVERNING AUTHORITY.
8. IF AFTER REPEATED FAILURE ON THE PART OF THE CONTRACTOR TO PROPERLY CONTROL EROSION, POLLUTION, AND/OR SILTATION, THE GOVERNING AUTHORITIES RESERVE THE RIGHT TO EFFECT NECESSARY CORRECTIVE MEASURES AND CHARGE ANY COSTS TO THE CONTRACTOR.
9. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE INDIANA URBAN MANUAL LATEST EDITION.
10. INLET PROTECTION SHALL BE INSTALLED AROUND EACH INLET OR CATCH BASIN. THESE SHALL BE MAINTAINED UNTIL THE TRIBUTARY DRAINAGE AREAS HAVE ADEQUATE GRASS COVER OR APPROPRIATE GROUND STABILIZATION.
11. ALL STREETS ADJACENT TO THE SITE SHALL BE KEPT FREE OF DIRT, MUD AND DEBRIS.
12. CONTRACTORS SHALL MINIMIZE BARE EARTH SURFACES DURING CONSTRUCTION.
13. ALL DISTURBED AREAS SHOULD BE SEEDED OR SODDED WITHIN THREE (3) DAYS OF FINAL DISTURBANCE.
14. WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIALS ARE DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, OR DITCHES SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THIS LOOSE MATERIAL SHALL BE REMOVED.
15. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEMS BY THE USE OF INLET PROTECTION OR OTHER APPROVED FUNCTIONAL METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT RESULTING FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
16. CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
17. ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE FROM THE PROPOSED CONSTRUCTION ENTRANCE. THE USE OF ANY OTHER ACCESSES IS PROHIBITED.
18. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED OR OTHERWISE DISCHARGED FROM THE SITE INTO SEDIMENT BASINS, SILT TRAPS, DEWATERING BAGS OR POLYMER MIXING SWALE. DEWATERING DIRECTLY INTO FIELD TILES, WETLANDS, ADJACENT PROPERTIES, PUBLIC RIGHTS-OF-WAY, STREAMS, LAKES, PONDS, RIVERS, OR STORMWATER SYSTEMS IS PROHIBITED.
19. ALL STOCKPILES SHOULD BE STABILIZED WITHIN THREE (3) DAYS OF FORMING THE STOCKPILE.
20. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED AS FOLLOWS:
   - 20.1. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES ON A PORTION OF THE SITE IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
   - 20.2. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (I..E. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASES.
21. EROSION CONTROL BLANKETS SHALL BE USED IN AREAS OF 6:1 SLOPE OR STEEPER AND AS SHOWN ON THE PLANS.
22. ALL DISTURBED GREEN SPACES WITHIN THE R.O..W. SHALL BE RESTORED WITH 6" OF TOPSOIL AND CLASS 2A SEEDING.
23. THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT THE SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABLIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.
24. ONCE ALL UPSTREAM AREAS ARE STABILIZED WITH SEED AND BLANKET OR SOD AS SHOWN IN THE PLANS, SILT FENCING SHALL BE REMOVED AND THE TRENCH SHALL BE RESTORED WITH TOPSOIL, SEED, FERTILIZER AND BLANKETING. RESTORATION SHALL OCCUR IMMEDIATELY FOLLOWING THE REMOVAL OF THE SILT FENCE. RESTORATION SHALL BE COMPLETED THE SAME WORKING DAY AS ANY SILT FENCING REMOVAL AND AT LEAST 2 HOURS BEFORE ANY FORECASTED PRECIPITATION.
25. ALL TEMPORARY EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PROPERLY STABILIZED OR DISPOSED OFF BY THE CONTRACTOR.

DLA ARCHITECTS

www.dla-ltd.com

Two Pierce Place | Suite 1300 | Itasca | 60143 | 847.742.4063

form follows learning

SCHOOL TOWN OF MUNSTER
MUSTER HIGH SCHOOL - NEW PARKING LOT AND STORAGE BUILDING ADDITION
8823 COLUMBIA AVE. MUNSTER, IN 46321

DATE:	DESCRIPTION:
02.04.2025	ISSUED FOR REVIEW
03.11.2025	ISSUED FOR PERMIT

PROJECT # 2024.104

DATE: MARCH 10, 2025

SHEET TITLE: PROJECT SPECIFICATIONS

JAMES GLASCOTT REGISTERED PE12400652 STATE OF INDIANA PROFESSIONAL ENGINEER

WT GROUP JOB NUMBER - C2400072

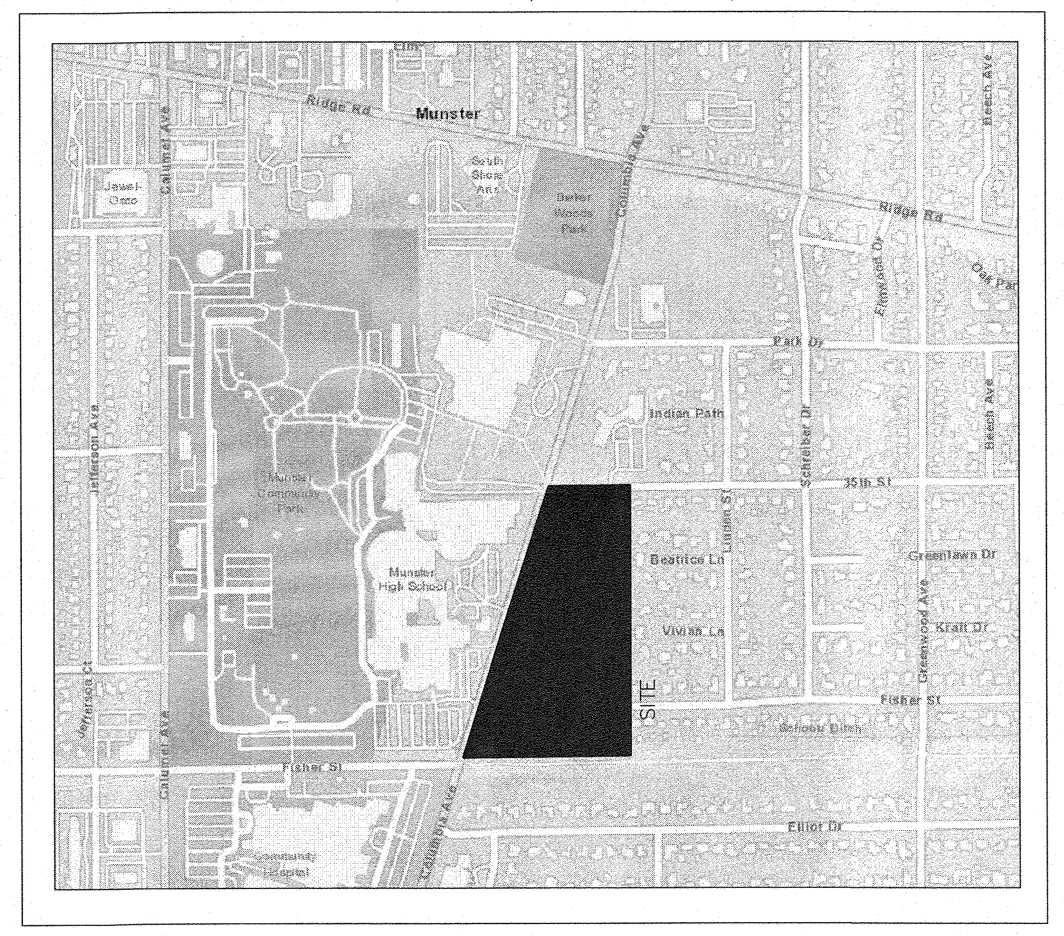
WT Group — Engineering Design Consulting

WT GROUP
Structural | Mechanical/Electrical/Plumbing
Civil | Land Survey | Telecommunication| Aquatic
Accessibility Consulting | Design & Program Management
Engineering with Precision, Pace & Passion.
2675 Pratum Avenue | Hoffman Estates, IL 60192
P: 224.293.6333 | F: 224.293.6444
wtengineering.com

SHEET: C-7.0

TOPOGRAPHICAL & ENGINEERING SURVEY

VICINITY MAP: (NOT TO SCALE)



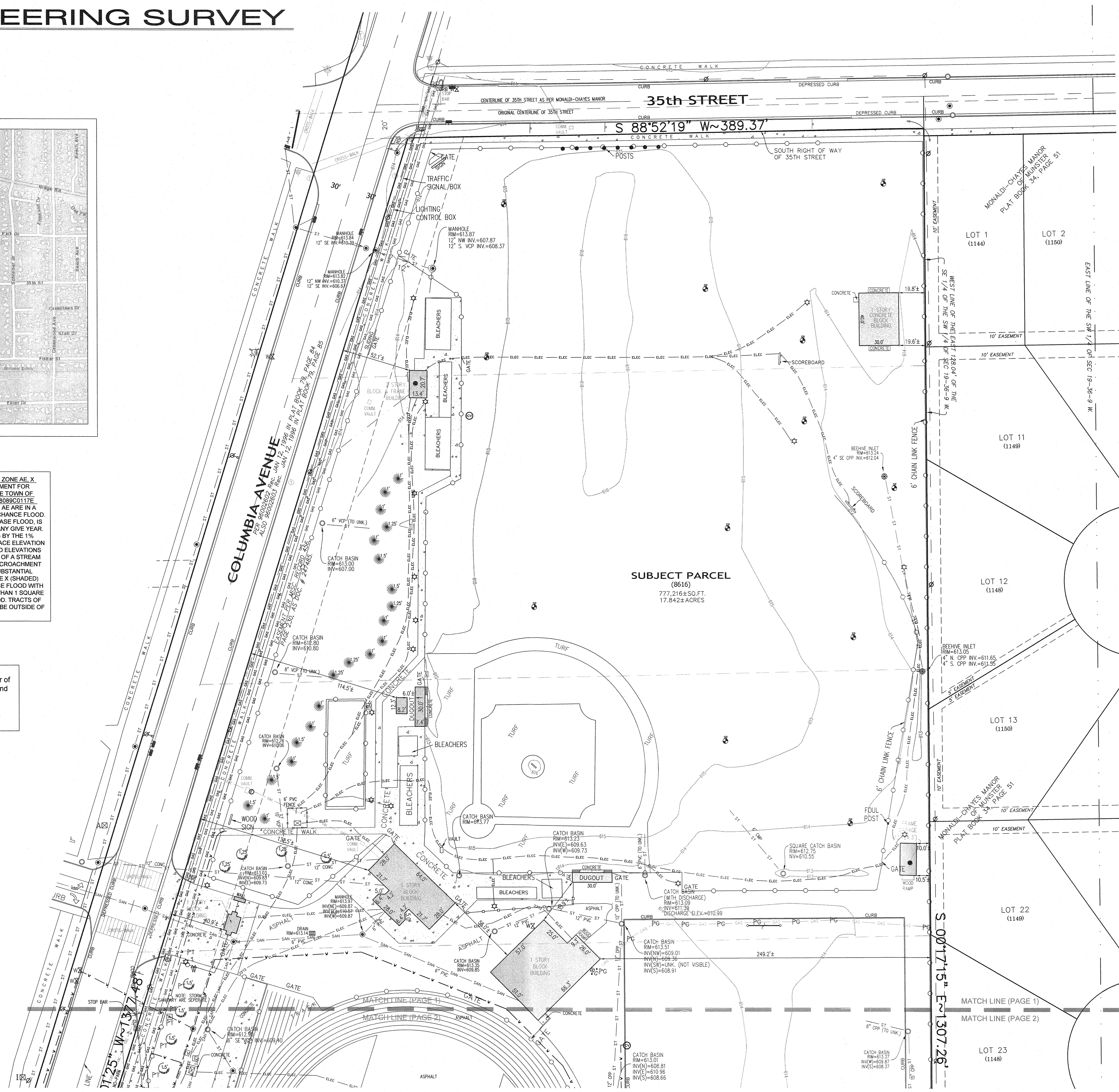
LEGEND:

- MANHOLE
- CATCH BASIN/INLET
- CURB DRAIN
- PIPE INLET/OUTLET
- DRAIN
- BEEHIVE CATCH BASIN
- PIPELINE MARKER
- POWER POLE
- POWER POLE w/ LIGHT
- POWER POLE / ANCHOR
- LIGHT POLE
- GAS VALVE
- FIRE HYDRANT
- WATER VALVE
- WATER SPIGOT
- FIBER OPTIC MARKER
- SIGN
- TRAFFIC LIGHT POLE
- TRAFFIC MANHOLE
- ELECTRIC TRANSFORMER
- ELECTRIC PANEL
- ELECTRIC VAULT
- IRRIGATION CONTROL VALVE
- SOIL BORING
- GAS LINE–FLAGGED
- STEEL BOLLARD
- GAS METER
- FLAG POLE
- CLEAN OUT
- EXISTING TREE W/ TRUNK DIA.
- EXST. CONTOUR
- EXISTING SPOT ELEVATION
- OVERHEAD LINES
- SANITARY LINE
- STORM SEWER LINE
- WATER MAIN LINE
- GAS LINE–FLAGGED
- UNDERGROUND–ELECTRIC LINE
- UNDERGROUNDTELE. LINE

THIS PROPERTY IS LOCATED IN FLOOD ZONE(S) AE, FLOODWAY AREAS IN ZONE AE, X (SHADED) & X (UNSHADED) AS DETERMINED BY USING SCALE MEASUREMENT FOR LOCATION UPON THE APPLICABLE FLOOD INSURANCE RATE MAP FOR THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA AS SHOWN IN COMMUNITY PANEL(S) 18089C0117E EFFECTIVE JANUARY 18, 2012. TRACTS OF LAND LOCATED IN FLOOD ZONE AE ARE IN A SPECIAL FLOOD HAZARD AREA SUBJECT TO INUNATION BY THE 1% ANNUAL CHANCE FLOOD. THE 1% ANNUAL CHANCE FLOOD (100 YEAR FLOOD), ALSO KNOWN AS THE BASE FLOOD, IS THE FLOOD THAT HAS A 1% CHANCE OF BEING EQUALED OR EXCEEDED IN ANY GIVE YEAR. THIS SPECIAL FLOOD HAZARD AREA IS THE AREA SUBJECT TO FLOODING BY THE 1% ANNUAL CHANCE FLOOD. THE BASE FLOOD ELEVATION IS THE WATER-SURFACE ELEVATION OF THE 1% ANNUAL CHANCE FLOOD. IN A FLOOD ZONE AE, THE BASE FLOOD ELEVATIONS HAVE BEEN DETERMINED. A FLOODWAY AREA IN ZONE AE IS THE CHANNEL OF A STREAM PLUS ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE KEPT FREE OF ENCROACHMENT SO THAT THE 1% ANNUAL CHANCE FLOOD CAN BE CARRIED WITHOUT SUBSTANTIAL INCREASES IN FLOOD HEIGHTS. TRACTS OF LAND LOCATED IN FLOOD ZONE X (SHADED) ARE AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD. TRACTS OF LAND LOCATED IN FLOOD ZONE X (UNSHADED) ARE AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD HAZARD.

Subject Parcel Legal Description:

That part of the Southeast quarter of the Southwest quarter of Section 19, Township 36 North, Range 9 West of the Second Principal Meridian, in the Town of Munster, Lake County, Indiana, lying East of the Easterly line of Columbia Avenue (formerly Dyer Road), excepting therefrom the East 128.04 feet thereof and excepting 35th Avenue.



NORTH

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 INCH = 40 FT.

STATE OF INDIANA }
COUNTY OF LAKE } §

THIS IS NOT A BOUNDARY SURVEY
This drawing is not intended to be represented as a retracement or original boundary survey, a route survey, or a Surveyor Location Report.

TORRENGA SURVEYING, LLC.

JOHN STUART ALLEN - Registered Land Surveyor No. LS29900011

JOHN STUART ALLEN REGISTERED No. LS29900011 STATE OF INDIANA LAND SURVEYOR

TORRENGA SURVEYING, LLC
PROFESSIONAL LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
TEL. No.: (219) 836-8918
WEBSITE: WWW.TORRENGA.COM

TOPOGRAPHICAL & ENGINEERING SURVEY
PART OF THE SW 1/4 SEC. 19-36-9
8616 COLUMBIA AVENUE
IN THE TOWN OF MUNSTER
LAKE COUNTY, INDIANA

DATE: AUGUST 30, 2024

CLIENT: SCHOOL TOWN OF MUNSTER

JOB NO: 2024-0182
DRAWN: OP/RP
SCALE: 1"=40'

SHEET 1 OF 2

FILE NO. Z:\Munster High School 2024\dwg\2024-0182.dwg 8/30/2024 1:45:34 PM CDT

TOPOGRAPHICAL & ENGINEERING SURVEY

LEGEND:

- MANHOLE
- CATCH BASIN/INLET
- CURB DRAIN
- PIPE INLET/OUTLET
- DRAIN
- BEEHIVE CATCH BASIN
- PIPELINE MARKER
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Subject Parcel Legal Description:
That part of the Southeast quarter of the Southwest quarter of Section 19, Township 36 North, Range 9 West of the Second Principal Meridian, in the Town of Munster, Lake County, Indiana, lying East of the Easterly line of Columbia Avenue (formerly Dyer Road), excepting therefrom the East 128.04 feet thereof and excepting 35th Avenue.

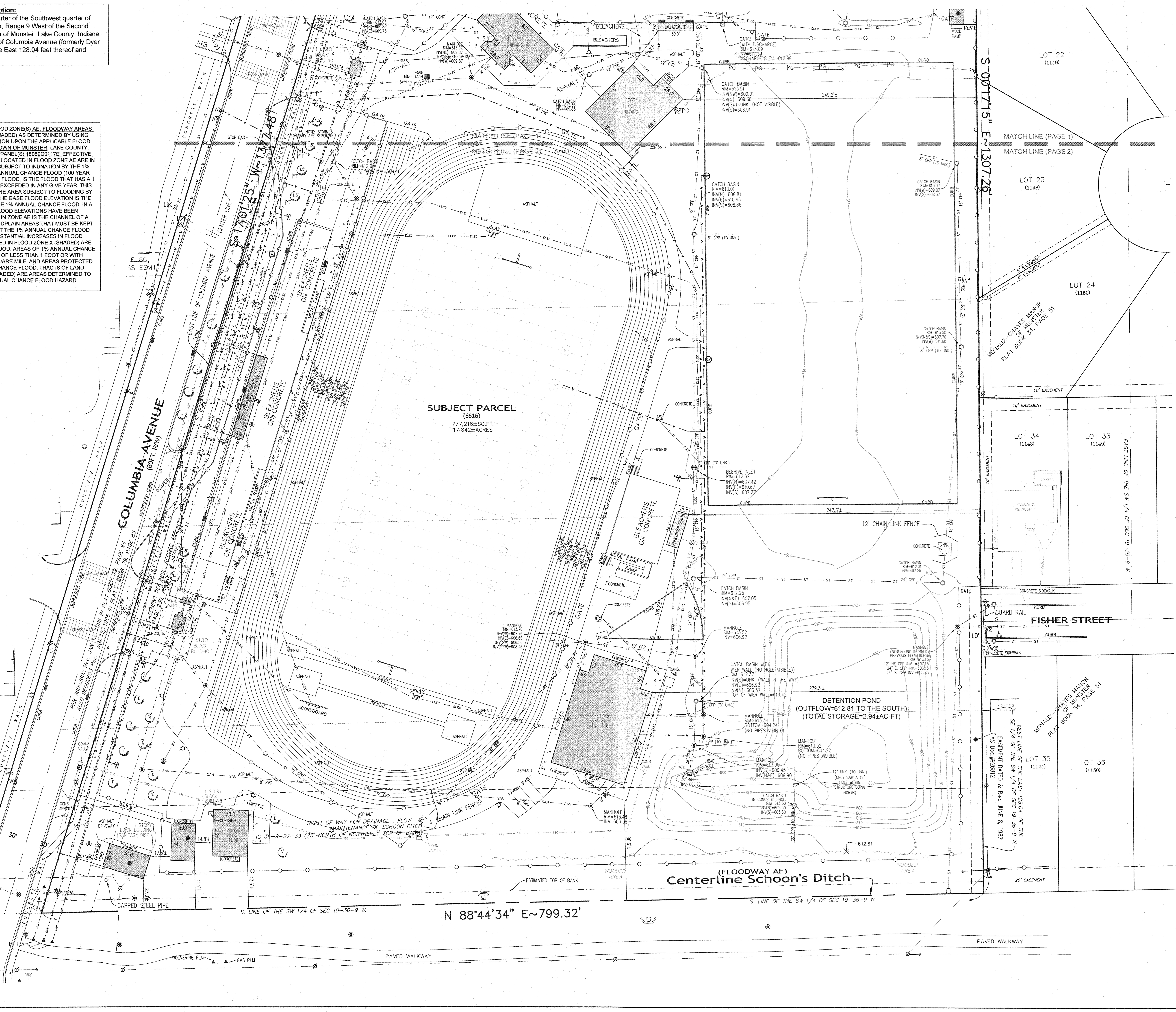
THIS PROPERTY IS LOCATED IN FLOOD ZONE(S) AE, FLOODWAY AREAS IN ZONE AE, X (SHADED) & X (UNSHADED) AS DETERMINED BY USING SCALE MEASUREMENT FOR LOCATION UPON THE APPLICABLE FLOOD INSURANCE RATE MAP FOR THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA AS SHOWN IN COMMUNITY PANEL(S) 18089C0117E EFFECTIVE JANUARY 18, 2012. TRACTS OF LAND LOCATED IN FLOOD ZONE AE ARE IN A SPECIAL FLOOD HAZARD AREA SUBJECT TO INUNATION BY THE 1% ANNUAL CHANCE FLOOD. THE 1% ANNUAL CHANCE FLOOD (100 YEAR FLOOD), ALSO KNOWN AS THE BASE FLOOD, IS THE FLOOD THAT HAS A 1 % CHANCE OF BEING EQUALED OR EXCEEDED IN ANY GIVE YEAR. THIS SPECIAL FLOOD HAZARD AREA IS THE AREA SUBJECT TO FLOODING BY THE 1% ANNUAL CHANCE FLOOD. THE BASE FLOOD ELEVATION IS THE WATER-SURFACE ELEVATION OF THE 1% ANNUAL CHANCE FLOOD. IN A FLOOD ZONE AE, THE BASE FLOOD ELEVATIONS HAVE BEEN DETERMINED. A FLOODWAY AREA IN ZONE AE IS THE CHANNEL OF A STREAM PLUS ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE KEPT FREE OF ENCROACHMENT SO THAT THE 1% ANNUAL CHANCE FLOOD CAN BE CARRIED WITHOUT SUBSTANTIAL INCREASES IN FLOOD HEIGHTS. TRACTS OF LAND LOCATED IN FLOOD ZONE X (SHADED) ARE AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD. TRACTS OF LAND LOCATED IN FLOOD ZONE X (UNSHADED) ARE AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD HAZARD.

NORTH

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 INCH = 40 FT.



STATE OF INDIANA
COUNTY OF LAKE } §

THIS IS NOT A BOUNDARY SURVEY
This drawing is not intended to be represented as a retracement or original boundary survey, a route survey, or a Surveyor Location Report.

TORRENGA SURVEYING, LLC.

JOHN STUART ALLEN - Registered Land Surveyor No. LS29900011

JOHN STUART ALLEN
REGISTERED
No. LS29900011
STATE OF INDIANA
LAND SURVEYOR

FILE NO: Z:\Munster High School 2024\dwg\2024-0182.dwg 8/30/2024 1:45:34 PM CDT

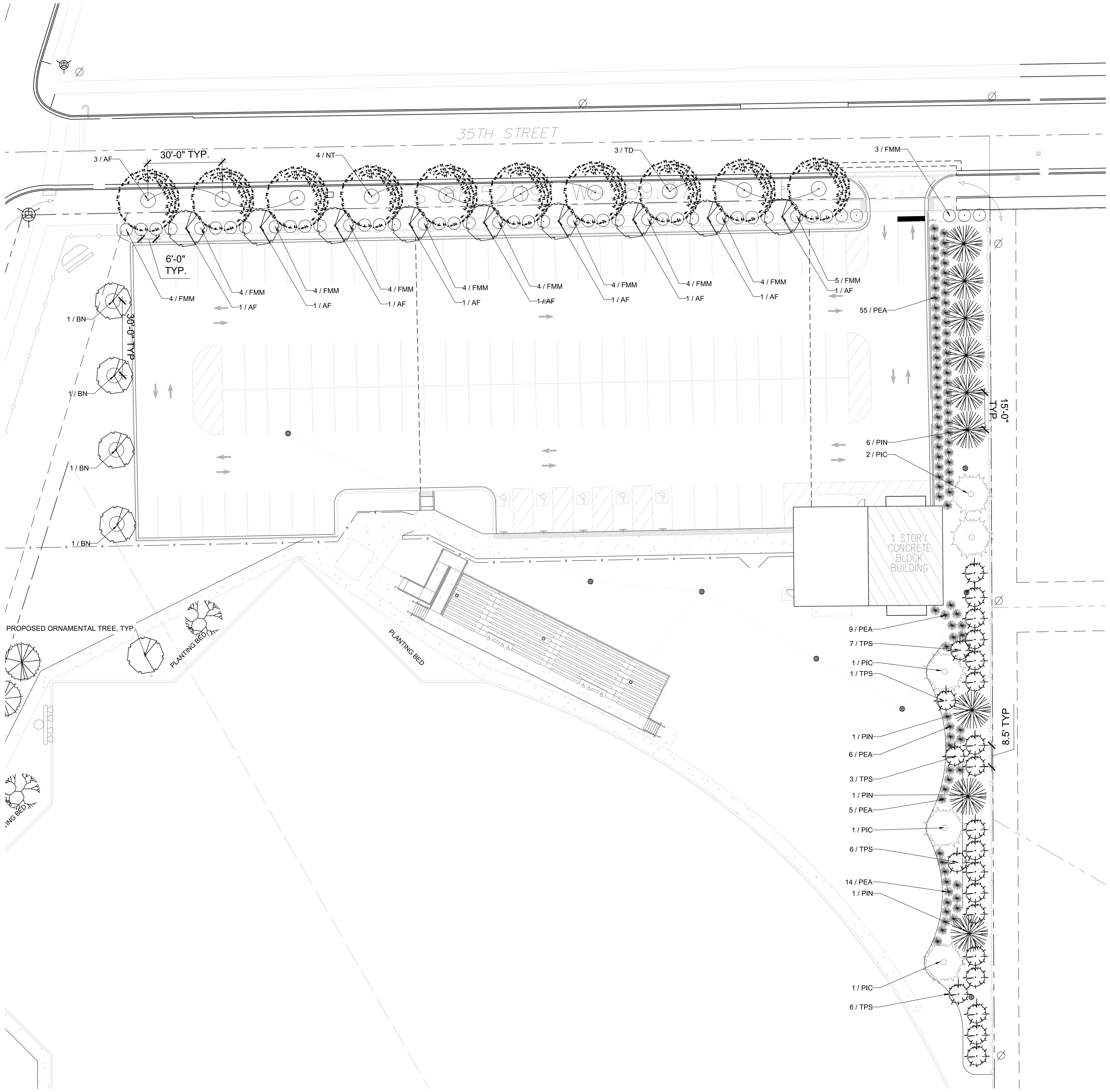
TORRENGA SURVEYING, LLC
PROFESSIONAL LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
TEL. NO.: (219) 836-8918 WEBSITE: WWW.TORRENGA.COM

TOPOGRAPHICAL & ENGINEERING SURVEY
PART OF THE SW 1/4 SEC. 19-36-9
8616 COLUMBIA AVENUE
IN THE TOWN OF MUNSTER
LAKE COUNTY, INDIANA

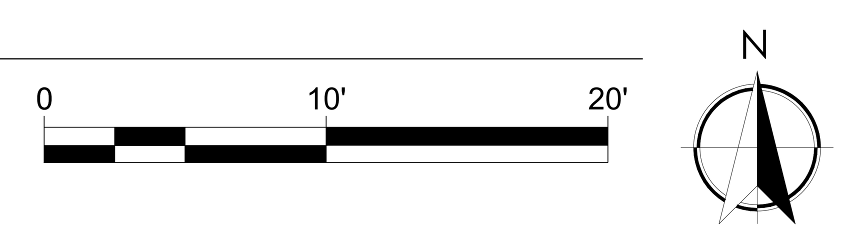
DATE: AUGUST 30, 2024

CLIENT: SCHOOL TOWN OF MUNSTER
JOB NO: 2024-0182
DRAWN: QP/RP
SCALE: 1"=40'

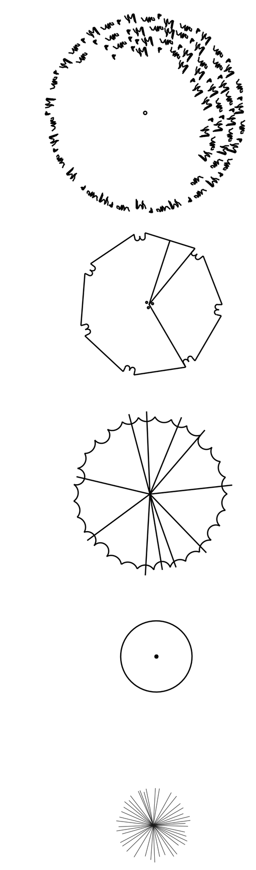
SHEET 2 OF 2



1 LANDSCAPE PLAN
SCALE: 1" = 20'-0"



LEGEND



SHADE TREE
ORNAMENTAL TREE
EVERGREEN TREE
DECIDUOUS SHRUB
ORNAMENTAL GRASS

GENERAL NOTES

1. CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL PERMITS AND PERMISSIONS TO INSTALL THE PROPOSED IMPROVEMENTS
2. ALL LANDSCAPE MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE VILLAGE OF ORLAND PARK LANDSCAPING CODES AND ZONING ORDINANCES.
3. PRIOR TO COMMENCING ANY WORK, CONTRACTOR SHALL CONTACT J.U.L.I.E (811) FOR UNDERGROUND UTILITY LOCATING.
4. ALL PLANT MATERIALS (EXCEPT FOR GROUNDCOVER, ANNUALS, AND PERENNIALS) SHALL BE BALLED AND BURLAPPED STOCK AND MEET CURRENT STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S STANDARD FOR NURSERY STOCK (ANSI 260.1-1986) OR PLANT MATERIALS MUST BE SUPPLIED WITHIN A 150 MILE RADIUS OF PROJECT SITE WITHIN NORTHEAST ILLINOIS. CONTRACTOR MAY SUBSTITUTE CONTAINER STOCK FOR SHRUBS IF SIZES ARE EQUAL TO SPECIFIED B&B STOCK, WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT.
5. IF SPECIFIED PLANTS ARE NOT AVAILABLE AT THE TIME OF ORDERING, PLANTS WITH SIMILAR WHOLESALE VALUE AND LANDSCAPE CHARACTERISTICS MAY BE SUBSTITUTED UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT AND VILLAGE STAFF.
6. SOIL IN GROUNDCOVER BEDS SHALL BE AMENDED USING 2 INCHES OF MUSHROOM COMPOST INCORPORATED INTO THE TOP 4 INCHES OF SOIL.
7. ALL DISTURBED GREEN SPACES ON THE SITE SHALL BE RESTORED ACCORDING TO THE SEED BED PREPARATION CIVIL SWPPP SPECIFICATIONS AND BLANKETED OR MATTED AS SHOWN ON CIVIL PLANS. SEE CIVIL PLANS.
8. TREE AND SHRUB BACKFILL MIXTURE SHALL BE 2 PARTS EXIST. NATIVE TOPSOIL AND 1 PART SPHAGNUM PEAT MOSS W/ DECOMPOSED MANURE.
9. ALL SHRUB BEDS AND INDIVIDUAL TREE PLANTINGS, UNLESS OTHERWISE NOTED, SHALL RECEIVE A 4 INCH LAYER OF SHREDDED HARDWOOD MULCH. ALL GROUNDCOVER, ANNUAL AND PERENNIAL BEDS SHALL RECEIVE A 2 INCH LAYER OF THE SAME MULCH MATERIAL. COSTS FOR MULCH SHALL BE CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF PLANTINGS.
10. NURSERY TAGS (SPECIES, SIZE) FOR ALL SHADE TREES SHALL REMAIN ATTACHED TO TREES UNTIL FINAL APPROVAL FROM MUNICIPALITY.
11. THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER A BONDED WRITTEN ONE-YEAR WARRANTY AGREEMENT (BEGINNING ON THE OWNER'S POSSESSION DATE). THIS AGREEMENT SHALL COVER MAINTENANCE, REPAIR, AND REPLACEMENT OF ALL DEAD OR DAMAGED LANDSCAPING TO PRESERVE THE SAME QUANTITY AND QUALITY AS INITIALLY APPROVED.

ZONING REQUIREMENTS

PARKWAY TREES

ONE (1) TREE PER THIRTY (30) LINEAR FEET (LF) OF FRONTAGE ON A PUBLIC RIGHT-OF-WAY. TWO (2) INCH MINIMUM CALIPER TREES.

INTERIOR PARKING LOT

PARKING LOTS ABOVE 30,000 SF: INTERNAL LANDSCAPED AREA EQUAL TO TEN (10) PERCENT OF TOTAL AREA. VARIANCE REQUESTED

PERIMETER PARKING LOT

a. SEVEN (7) FOOT WIDE PERIMETER LANDSCAPED AREA (2 FOOT CAR OVERHANG, 5 FOOT AREA).
b. CONTINUOUS SCREENING HEDGE, MAINTAINED BETWEEN THIRTY (30) AND FORTY-EIGHT (48) INCHES HEIGHT.
c. TREE PLANTING REQUIRED IN PERIMETER LANDSCAPED AREA AT A RATE OF ONE PER THIRTY (30) FEET OF LINEAR FRONTAGE.
d. FENCING REQUIRED ALONG PUBLIC RIGHTS-OF-WAY, INCLUDING ALLEYS. (CHAIN-LINK FENCING NOT PERMITTED.)
e. ORNAMENTAL METAL FENCING REQUIRED ALONG LOT LINES ADJACENT TO PUBLIC STREETS.

SCOTT PRESTON
REGISTERED
No. LA22000013
STATE OF
INDIANA
LANDSCAPE ARCHITECT

LANDSCAPE ARCHITECTURE
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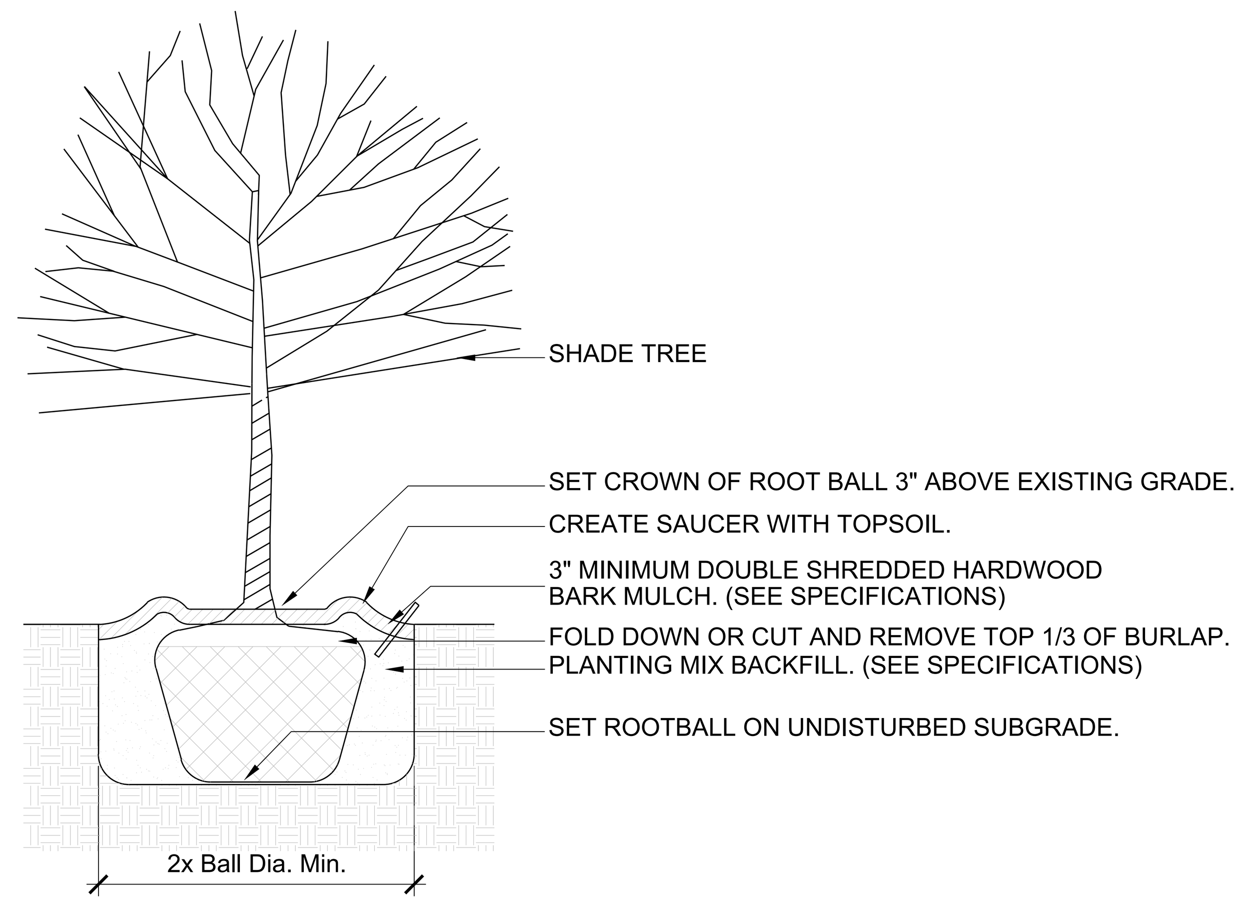
SCHOOL TOWN OF MUNSTER
MUNSTER HIGH SCHOOL
MUSTER HIGH SCHOOL - PARKING LOT AND STORAGE BUILDING ADDITION
8808 COLUMBIA AVE. MUNSTER, IN 46321

SCHOOL TOWN of MUNSTER

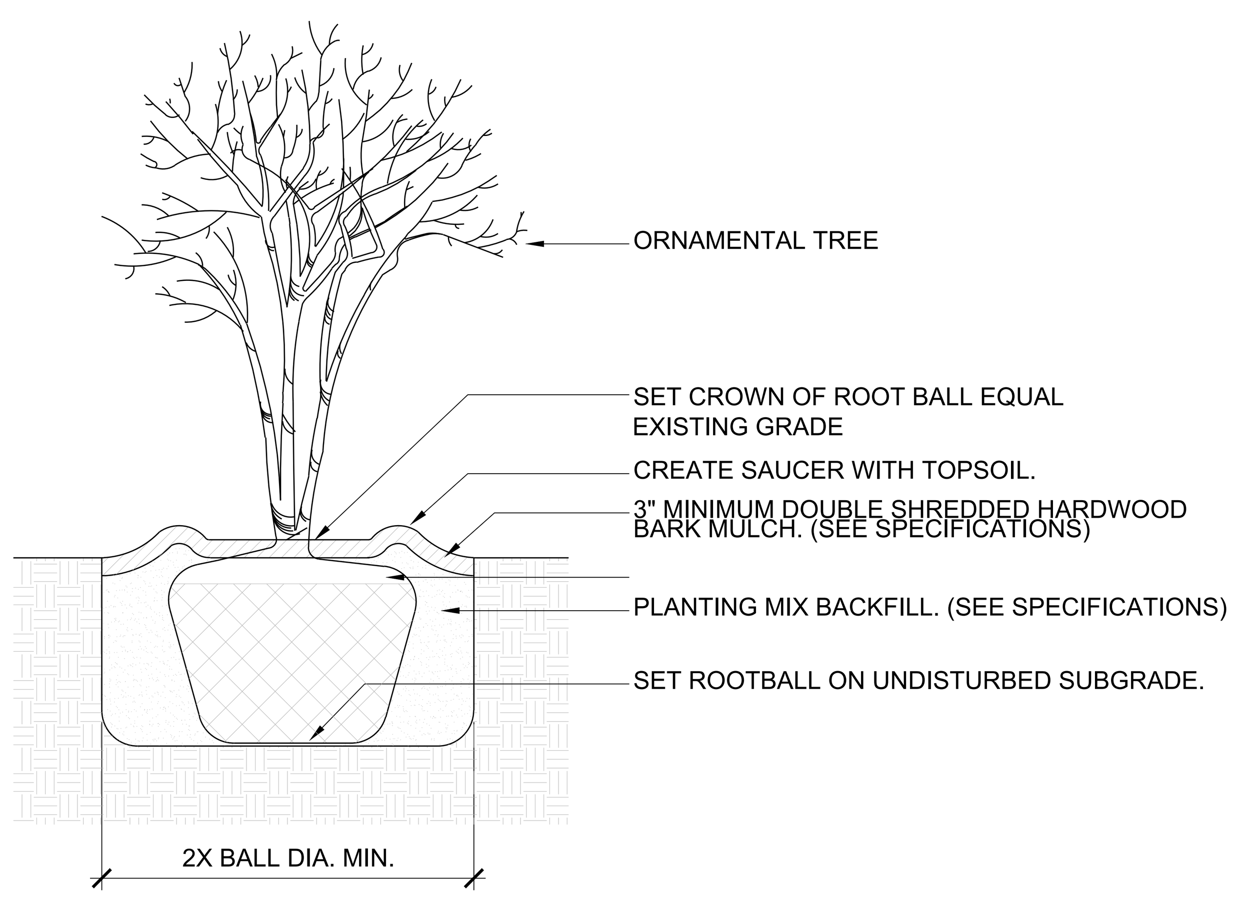
DATE:	DESCRIPTION:

PROJECT #	2024.104
DATE:	FEBRUARY 20, 2025
SHEET TITLE:	LANDSCAPE PLAN
SHEET:	L1



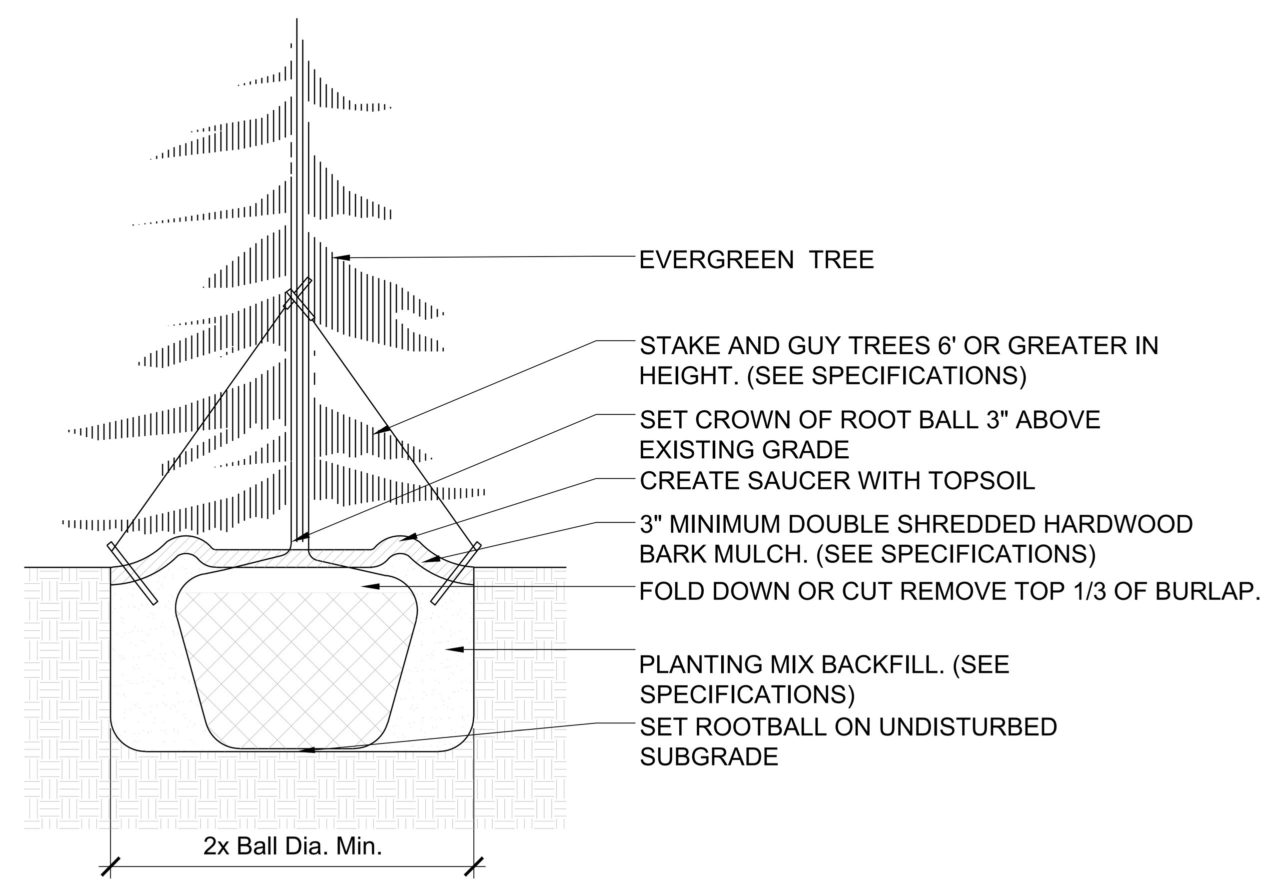
1 SHADE TREE PLANTING

SCALE: N.T.S.



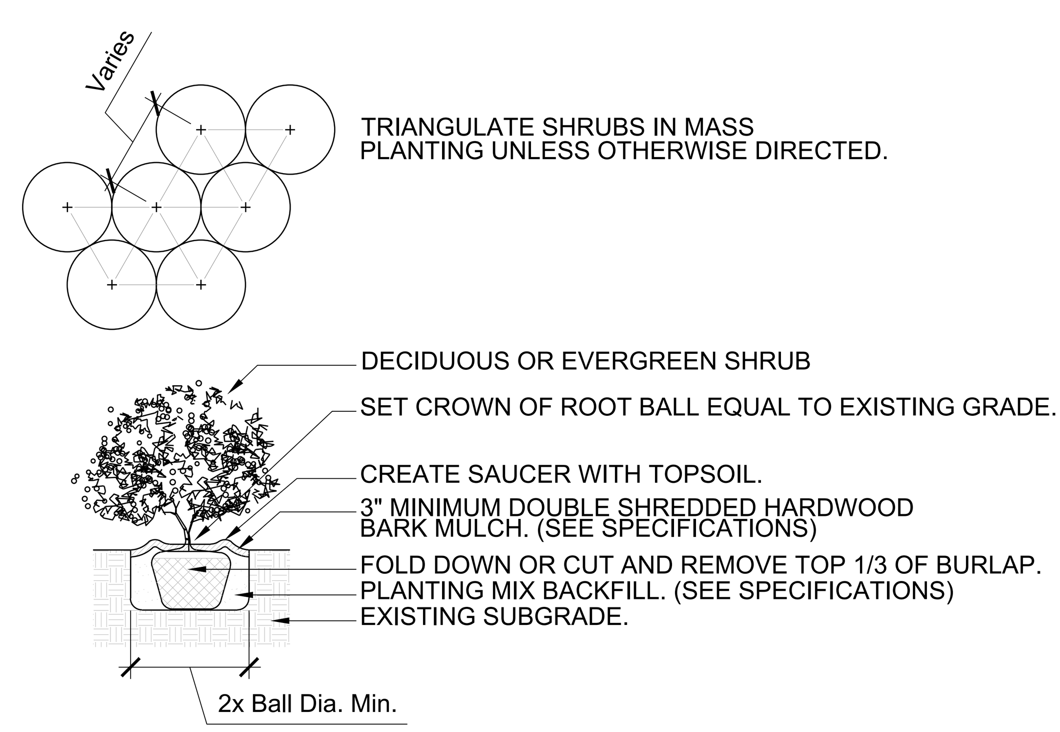
2 ORNAMENTAL TREE PLANTING

SCALE: N.T.S.



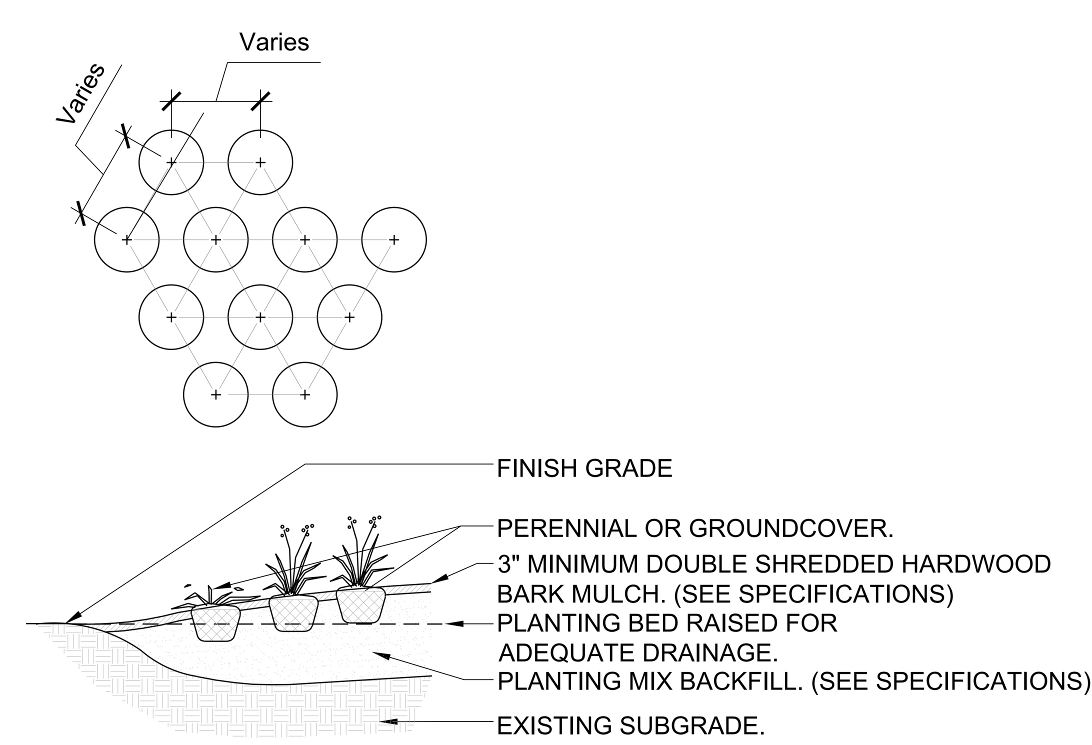
4 EVERGREEN TREE PLANTING

SCALE: N.T.S.



3 SHRUB PLANTING

SCALE: N.T.S.



5 PERENNIAL PLANTING

SCALE: N.T.S.

PLANT LIST & KEY

KEY	BOTANICAL NAME (COMMON NAME)	SIZE	SPACING	QUANTITY
SHADE TREES				
AF	Acer fremanii 'autumn blaze' AUTUMN BLAZE MAPLE	2.5" cal. B&B	30' O..C.	3
NT	Nyssa tupelo sylvatica BLACK TUPELO	2.5" cal. B&B	30' O..C.	4
TD	Taxodium districhum BALD CYPRESS	2.5" cal. B&B	30' O..C.	3
ORNAMENTAL TREES				
AA	Amelanchier alnifolia 'Obelisk' STANDING OVATION SERVICEBERRY	6' B&B	30' O..C.	9
BN	Betula nigra 'Cully' HERITAGE RIVER BIRCH	2.5" cal. B&B	30' O..C.	4
EVERGREEN TREES				
JUV	Juniperus virginiana EASTERN RED CEDAR	7' B&B	ON PLANS	7
TPS	Thuja plicata x standishii 'Green Giant' GREEN GIANT ARBORVITAE	7' B&B	ON PLANS	23
DECIDUOUS SHRUBS				
FMM	Fothergilla major 'Mount Airy' MOUNT AIRY FOTHERGILLA	#3 container	6' o.c.	44
GRASSES				
PEA	Pennisetum alopecuroides FOUNTAIN GRASS	#1 container	2' O.C.	55

THE QUANTITIES LISTED ABOVE ARE FOR REFERENCE ONLY.
THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL QUANTITIES BASED ON THE PLANT MATERIALS SHOWN AND IDENTIFIED ON THE LANDSCAPE PLAN.

PLANTING NOTES

1. GRADES SHALL MEET ALL EXISTING PERIMETER WALKS TO REMAIN.
2. TREES: SET TOP OF TREE ROOT BALL SO THAT AFTER SOIL SETTLEMENT, MAIN ORDER ROOTS SHALL BE 2" ABOVE THE TOP OF SURROUNDING GRADE. SUPPORT APPURTENANCES TO BE USED ONLY IF TREE FAILS TO REMAIN PLUMB. IF DIRECTED BY LANDSCAPE ARCHITECT, PRUNE TREES AND SHRUBS AFTER PLANTING. RETAIN NATURAL CHARACTER AND GENERAL SHAPE OF TREE OR SHRUB. REMOVE ENOUGH INTERIOR BRANCHES TO REDUCE FOLIAGE BY 1/3. NEVER CUT A LEADER SET ALL PLANT MATERIAL PLUMB IN PLANTING PIT. MAINTAIN PLUMB CONDITION THROUGHOUT GUARANTEE PERIOD.
3. PERENNIALS: REMOVE PLASTIC PLATING CONTAINER BEFORE PLANTING BEING CAREFUL TO KEEP THE ROOT SYSTEM INTACT. TRIANGULATE PERENNIALS IN MASS PLANTINGS UNLESS SPECIFIED. SEE PLANT LIST FOR CORRECT SPACING. SET ROWS OF PERENNIALS SO THAT AFTER SETTLEMENT OF SOIL AROUND BALL, THE TOP IS 1" ABOVE THE ADJACENT FINISHED GRADE OF SOIL.
4. REMOVE PLASTIC PLATING CONTAINER BEFORE PLANTING BEING CAREFUL TO KEEP THE ROOT SYSTEM INTACT. PLANT PRAIRIE GRASS IN MASS PLANTINGS, SQUARE, ON CENTER SPACING EXCEPT WHERE SHOWN OTHERWISE ON THE DRAWINGS. SEE PLANT LIST FOR CORRECT SPACING.
5. PROVIDE ALL SHADE TREES AS SPECIMEN QUALITY, WELL MATCHED, WELL-SHAPED, LIMBED UP 6'-0" MIN. ABOVE GROUND.
6. REMOVE ALL SHIPPING MATERIALS AND CONTAINERS BEFORE PLANTING.
7. ALL EXISTING AND PROPOSED TREES SHALL HAVE A 3" LAYER OF TRIPLE SHREDDED PREMIUM HARDWOOD BARK MULCH RING.
8. SIZES SHOWN ARE MINIMUM REQUIRED SIZE.
9. IF SIZE REQUIRED IS NOT AVAILABLE, CONTRACTOR MAY PROVIDE LARGER MATERIAL WITH THE ACCEPTANCE OF THE LANDSCAPE ARCHITECT.
10. IF LARGER SIZES ARE ACCEPTED, LARGER COMMENSURATE ROOT BALLS SHALL BE DUG TO ENSURE PLANT SUCCESS.
11. ALL SPRING DIG ONLY TREES WHICH CANNOT BE DUG IN SPRING SHALL BE "PRE DUG" MATERIAL OR SHALL BE STAGE DUG. ALL HELD MATERIALS SHALL BE MAINTAINED, INCLUDING WATERING.
12. QUANTITIES ARE INCLUDED FOR CONVENIENCE ONLY. IN THE EVENT THAT DISCREPANCIES OCCUR, THE ACTUAL PLAN DESIGNATIONS AS DRAWN ON THE DRAWINGS SHALL GOVERN.
13. MULCH ALL PLATING BEDS IN THEIR ENTIRETY AFTER PLANTING WITH 3" OF PREMIUM TRIPLE SHREDDED HARDWOOD BARK MULCH.
14. SEE CIVIL DRAWINGS FOR ALL GRADING.

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SCHOOL TOWN OF MUNSTER
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MUSTER HIGH SCHOOL - PARKING LOT AND STORAGE BUILDING ADDITION
8808 COLUMBIA AVE. MUNSTER, IN 46321

SCOTT PRESTON REGISTERED No. LA22000013 STATE OF INDIANA LANDSCAPE ARCHITECT

LANDSCAPE ARCHITECTURE PRESTON CREATIVE

DATE:	DESCRIPTION:

PROJECT #: 2024.104
DATE: FEBRUARY 20, 2025
SHEET TITLE: DETAILS
SHEET: L2

SECTION 32 93 00 - PLANTS

1.0 GENERAL DESCRIPTION

A. THIS WORK SHALL CONSIST OF THE EXCAVATION, INSTALLATION, BACKFILLING, CARE AND MAINTENANCE OF LANDSCAPE PLANTINGS.

B. THE SIZE AND GRADING STANDARDS OF PLANT MATERIALS IN THIS SPECIFICATION MUST CONFORM WITH THE "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

1.1 SUBMITTALS

A. WHEN REQUIRED IN THE PLAN NOTES OR DETAILS, MATERIAL OR PRODUCT SAMPLES MUST BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE OWNER'S REPRESENTATIVE.

B. THE OWNER'S REPRESENTATIVE SHALL REVIEW THE MATERIALS OR PRODUCT SAMPLES SUBMITTED AND SHALL RESERVE THE RIGHT TO COMPARE THE SUBMITTED MATERIALS WITH THE MATERIALS DELIVERED TO THE PROJECT SITE. IF THE MATERIALS DELIVERED TO THE PROJECT SITE ARE NOT OF THE SAME TYPE, CONSISTENCY AND QUALITY AS THE SUBMITTED SAMPLES, THE OWNER'S REPRESENTATIVE WILL HAVE THE RIGHT TO REJECT SAID PRODUCTS AND REQUIRE THE CONTRACTOR TO PROVIDE MATERIALS FROM ANOTHER SOURCE.

1.2 PRODUCT DELIVERY, STORAGE & HANDLING

A. STORAGE OF MATERIALS: PLANT MATERIALS WILL BE PERMITTED TO BE STORED AT THE PROJECT SITE IN LOCATION DETERMINED BY THE OWNER'S REPRESENTATIVE, BUT MUST BE PROTECTED BY THE CONTRACTOR FROM THEFT, DAMAGE OR VANDALISM. PLANT MATERIALS THAT ARE STOLEN, OR DAMAGED IN ANY WAY MUST BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. SUPPLIES, INCLUDING BUT NOT LIMITED TO MARKING PAINT, FERTILIZER, INSECTICIDES, OR OTHER CHEMICALS MUST BE STORED OFF SITE AND TRANSPORTED TO THE SITE EACH DAY FOR USE.

B. INSPECTIONS:

1. ALL PLANT MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER'S REPRESENTATIVE AT THE POINT OF GROWTH NURSERY OR THE PROJECT SITE, PRIOR TO INSTALLATION. SHOULD ANY PLANT MATERIALS BE INSTALLED PRIOR TO INSPECTION, THEN THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR THEIR REPLACEMENT, INCLUDING EXCAVATION, HAULING AND NEW MATERIALS, SHOULD THEY BE FOUND TO BE UNACCEPTABLE.
2. SHOULD ANY PLANT MATERIALS BE FOUND TO BE UNACCEPTABLE DURING THE ON-SITE INSPECTION, THEN THEY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. THE CONTRACTOR, AT THEIR EXPENSE CAN ALSO ARRANGE FOR THE INSPECTION OF PLANT MATERIALS AT LOCAL POINT OF GROWTH NURSERIES, WHICH MUST BE LOCATED WITHIN A FIFTY (50) MILE RADIUS OF THE PROJECT SITE. THE CONTRACTOR MUST PRE-TAG ALL SHADE, ORNAMENTAL AND EVERGREEN TREES AND A SAMPLE OF SHRUBS AND PERENNIAL MATERIALS TO BE USED FOR THE PROJECT. THE OWNER'S REPRESENTATIVE WILL REVIEW THE PRE-TAGGED PLANT MATERIALS AND MAKE A DECISION REGARDING THEIR ACCEPTABILITY FOR THE PROJECT. SHOULD ANY PRE-TAGGED PLANT MATERIALS NOT BE ACCEPTABLE, THEN THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ANOTHER SAMPLES FOR REVIEW.
4. THE CONTRACTOR MUST REQUEST THE OWNER'S REPRESENTATIVE'S ATTENDANCE AT LEAST TEN (10) WORKING DAYS IN ADVANCE FOR ALL POINT OF GROWTH NURSERY INSPECTIONS.
5. THE ENTIRE COST OF THE INSPECTIONS WILL BE BORNE AND PAID FOR THE CONTRACTOR UNLESS OTHERWISE WAIVED BY THE OWNER'S REPRESENTATIVE.
6. A REPRESENTATIVE OF THE CONTRACTOR MUST BE PRESENT DURING ALL PLANT MATERIAL INSPECTIONS.

C. DIGGING AND HANDLING OF PLANT MATERIAL

1. ALL SHADE TREES, ORNAMENTAL TREES AND EVERGREEN TREES MUST BE BALLED AND BURLAPPED. SHRUBS MAY BE BALLED AND BURLAPPED OR CONTAINER GROWN. PERENNIALS AND GROUNDCOVERS SHALL BE GROWN IN FLATS OR POTS.
2. PLANT MATERIALS WITH CRACKED OR BROKEN BALLS WILL NOT BE ACCEPTED.
3. ALL BALLED AND BURLAPPED PLANTS THAT CANNOT BE PLANTED IMMEDIATELY UPON DELIVERY SHALL BE HEALED-IN WITH MULCH MATERIAL AND MUST BE WATERED DAILY UNTIL PLANTED. PLANT MATERIALS THAT HAVE BEEN STORED ON SITE FOR A PERIOD LONGER THAN THIRTY (30) DAYS WILL NOT BE ACCEPTED.
4. ALL PLANT MATERIALS MUST BE DELIVERED TO THE PROJECT SITE IN COVERED TRAILERS OR PROTECTED BY A TARPS OR APPROPRIATE COVERINGS DURING TRANSIT.
5. PLANT MATERIALS MUST BE MARKED FOR IDENTIFICATION WITH THEIR NAME OR THEIR APPROPRIATE KEY SYMBOL, WHICH CAN BE FOUND ON THE PLANT LIST.

SECTION 32 93 00 - PLANTS (CONTINUED)

1.3 PROTECTION

A. ALL PLANT MATERIALS MUST BE PROTECTED BY THE CONTRACTOR FROM THEFT OR VANDALISM UNTIL THE COMPLETED PLANTING HAS RECEIVED PRELIMINARY ACCEPTANCE. ANY PLANT MATERIAL THAT IS STOLEN OR VANDALIZED WILL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

1.4 GUARANTEE

A. PLANT MATERIALS MUST BE GUARANTEED TO GROW AND THRIVE FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE. ANY PLANT MATERIALS THAT ARE IN DECLINE AS DETERMINED BY THE OWNER'S REPRESENTATIVE, OR DIE DURING THIS GUARANTEE PERIOD MUST BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER PRIOR TO LOCAL JURISDICTION ACCEPTANCE OF THE PROJECT, AND WILL BE GUARANTEED FOR AN ADDITIONAL ONE (1) YEAR PERIOD.

B. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO TURF OR PAVEMENTS CAUSED BY PLANT MATERIAL REPLACEMENT.

2.0 PRODUCTS AND MATERIALS

A. WATER: THE CONTRACTOR WILL BE REQUIRED TO SUPPLY WATER INCLUDING ALL METERS, HOSES AND CONNECTIONS, ETC. NECESSARY TO WATER THE LANDSCAPE PLANTINGS.

B. PEAT MOSS OR HUMUS: COMMERCIAL TYPE SPHAGNUM PEAT MOSS.

C. FERTILIZER: AGRIFORM TABLETS BY THE SCOTTS COMPANY, LLC, WITH THE FOLLOWING ANALYSIS:

NITROGEN	20%
PHOSPHORIC ACID	10%
POTASH	5%

D. MULCH: A DOUBLE SHREDDED HARDWOOD BARK MUCH MATERIAL SHALL BE USED. SUBMIT SAMPLE TO THE OWNER'S REPRESENTATIVE FOR APPROVAL.

E. TOPSOIL: TOPSOIL REQUIRED FOR PLANTING MIXTURE MUST BE PULVERIZED, CLEAN SOIL, FREE OF WEEDS, ROOTS, STALKS, AND OTHER DEBRIS. SUBMIT SAMPLE TO OWNER'S REPRESENTATIVE FOR APPROVAL.

F. PLANTING MIXTURE: PLANTING MIX SOIL SHALL CONSIST OF TOPSOIL, TOPPED WITH THREE (3) INCH LAYER OF ONE STEP SOIL CONDITIONER WITH MYCORRHIZAE AS PRODUCED BY MIDWEST TRADING HORTICULTURAL SUPPLIES, INC. TILL IN THREE (3) INCH LAYER OF ONE STEP SOIL CONDITIONER TO A DEPTH OF TWELVE (12) INCHES WITHIN TOPSOIL FILL. FERTILIZER TABLETS SHALL BE INCLUDED IN THE INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

G. PLANT MATERIALS: ALL PLANT MATERIALS USED FOR THE PROJECT MUST BE NURSERY GROWN AT A LOCATION WITHIN A FIFTY (50) MILE RADIUS OF THE PROJECT SITE.

1. ALL PLANT MATERIALS USED FOR THIS PROJECT MUST BE FRESHLY DUG OR CONTAINER GROWN.
2. ALL PLANT MATERIALS MUST HAVE A TYPICAL GROWTH HABIT, BE APPROPRIATELY BRANCHED AND DENSELY FOLIATED AND SHALL BE DISEASE AND PEST FREE.
3. ALL PLANTS MUST CONFORM TO THE SIZES CONTAINED ON THE PLANT LIST AND THE REQUIREMENTS SET FORTH IN THE AMERICAN STANDARD FOR NURSERY STOCK.
4. PLANT MATERIAL SUBSTITUTIONS MAY ONLY BE MADE WITH THE WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR MUST SUBMIT ALL REQUESTS FOR PLANT MATERIAL SUBSTITUTIONS IN WRITING TO THE OWNER'S REPRESENTATIVE.

H. PRE-EMERGENCE HERBICIDE: SHALL BE A GRANULAR FORM OF PREEN GARDEN WEED PREVENTER. THIS GRANULAR WEED PREVENTER WILL BE APPLIED AFTER MULCH INSTALLATION IN ALL PLANTING BEDS AT A RATE OF ONE (1) OUNCE PER TEN (10) SQUARE FEET. IMMEDIATELY WATER IN AFTER INSTALLATION. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

3.0 EXECUTION

A. PLANT MATERIAL LAYOUT AND LOCATION:

1. PRIOR TO ANY INSTALLATION, THE CONTRACTOR MUST LOCATE ALL PLANT MATERIALS USING WOODEN LATHE OR FLAGS. THE OWNER'S REPRESENTATIVE WILL REVIEW AND APPROVE PLANT MATERIAL LOCATIONS.
2. THE CONTRACTOR MUST UTILIZE J.U.L.I.E, THE LOCAL JURISDICTION AND THE OWNER'S REPRESENTATIVE TO LOCATE ALL UTILITIES PRIOR TO ANY EXCAVATION.

B. PLANTING HOLE EXCAVATION:

1. THE CONTRACTOR MUST EXCAVATE AS NECESSARY FOR INSTALLATION OF PLANT MATERIALS. ALL ROCK, BROKEN CONCRETE AND SIMILAR DEBRIS MUST BE REMOVED FROM PLANTING HOLES AND HAULED FROM THE SITE AT NO ADDITIONAL EXPENSE TO THE OWNER.
2. ALL EXCESS SOILS GENERATED FROM PLANTING OPERATIONS MUST BE HAULED FROM THE SITE AT NO ADDITIONAL EXPENSE TO THE OWNER.

SECTION 32 93 00 - PLANTS (CONTINUED)

3.1 INSTALLATION

A. PLANTING SEASONS:

1. DECIDUOUS PLANTS MUST BE PLANTED DURING THE FOLLOWING DATES: APRIL 1ST TO JUNE 1ST AND OCTOBER 1ST TO DECEMBER 15TH.
2. EVERGREEN PLANTS MUST BE PLANTED DURING THE FOLLOWING DATES: APRIL 1ST TO MAY 15TH AND SEPTEMBER 1ST TO OCTOBER 1ST.
3. THE PLANTING PERIODS INDICATED MAY BE EXTENDED DUE TO WEATHER CONDITIONS OR OTHER FACTORS, WHICH MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.
4. THE CONTRACTOR WILL BE RELIEVED FOR HIS GUARANTEE RESPONSIBILITY SHOULD THE OWNER REQUIRE PLANT MATERIAL INSTALLATIONS TO BE COMPLETED DURING OTHER TIMES THAN THE PLANTING PERIODS INDICATED.

B. PLANTING:

1. ALL SHADE TREES, ORNAMENTAL TREES, EVERGREEN TREES, SHRUBS AND PERENNIALS SHALL BE PLANTED IN HOLES EXCAVATED AT LEAST TWICE THE WIDTH OF THE DIAMETER OF THE BALL OR CONTAINER AND DEEP ENOUGH SO THAT THE TOP OF THE BALL OR SOIL IN THE CONTAINER IS AT OR JUST ABOVE EXISTING GRADE.
2. INSTALL AGRIFORM FERTILIZER TABLETS IN EXCAVATED HOLES AFTER FILLING HALF WAY UP THE ROOT BALL. FOLLOW MANUFACTURER'S APPLICATION RATES.
3. ALL TWINE OR ROPE MUST BE CUT AND REMOVED AND THE BURLAP FOLDED AWAY FROM THE TOP OF THE BALL. THE EXCAVATION MUST BE BACKFILLED WITH THE PLANTING MIXTURE AND WATERED. ANY SETTLEMENT WILL BE FILLED WITH PLANTING MIXTURE.
4. A 4" DEEP SAUCER, SIMILAR TO THE DIAMETER OF THE PLANTING HOLE SHALL BE CREATED USING PLANTING MIX.
5. GROUNDCOVERS: ALL PERENNIAL AND GROUNDCOVER BEDS SHALL BE TILLED TO A DEPTH OF SIX (6) INCHES. THREE (3) INCHES OF MUSHROOM OR SIMILAR COMPOST MUST THEN BE TILLED INTO THE SOIL AND THE PLANTING BED RAKED SMOOTH PRIOR TO PLANTING.

C. PRUNING:

1. ALL TREES AND SHRUBS SHALL BE PRUNED TO ENHANCE THE NATURAL CHARACTER OF THE PLANT, AND TO REMOVE ANY BROKEN OR DAMAGED BRANCHES.

D. MULCHING:

1. ALL SHADE TREES, ORNAMENTAL TREES, AND EVERGREEN TREES SHALL BE MULCHED. THE MULCH SHALL COVER THE PLANTING AREA WITH A MINIMUM OF THREE (3) INCHES AND NOT MORE THAN FOUR (4) INCHES IN DEPTH. NO MULCH MATERIAL MAY COVER THE TRUNK OR PLANT STEM.
2. ALL MASSED PLANTINGS WILL BE MULCHED WITH A MINIMUM OF THREE (3) INCHES AND NOT MORE THAN FOUR (4) INCHES OF MULCH. THE ENTIRE BED SHALL BE MULCHED UNDER THE PLANTS. A SPADED EDGE MUST BE PRODUCED IN THE BED SHAPE AS INDICATED ON THE PLANS.
3. GROUNDCOVER AREAS WILL NOT RECEIVE ANY MULCH.

E. PRE-EMERGENCE HERBICIDE APPLICATION:

1. GRANULAR WEED PREVENTER WILL BE APPLIED AFTER MULCH INSTALLATION IN ALL PLANTING BEDS AT A RATE OF ONE (1) OUNCE PER TEN (10) SQUARE FEET. IMMEDIATELY WATER IN AFTER INSTALLATION. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

F. WRAPPING, STAKING & GUYING:

1. ALL SHADE AND SINGLE STEM ORNAMENTAL TREES MUST BE WRAPPED WITH BURLAP OR AN APPROVED TREE WRAP FROM THE BASE OF THE TREE TO THE START OF THE FIRST BRANCHES.
2. EVERGREEN TREES 6' HIGH AND LARGER MUST BE STAKED AND GUYED. DECIDUOUS TREES 4" CALIPER AND LARGER MUST STAKED AND GUYED.
3. WHEN REQUIRED, A THREE-POINT GUYING SYSTEM SHALL BE USED CONSISTING OF GALVANIZED WIRES, HOSE LOOPS, TURN BUCKLES AND WOODEN STAKES. OTHER COMMERCIAL STAKING AND GUYING SYSTEMS MAY BE USED IF PRESENTED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE. ALL GUY WIRES MUST HAVE HIGH VISIBILITY ORANGE FLAGGING AND ALL STAKES MUST BE PAINTED WITH HIGH VISIBILITY ORANGE PAINT.

SECTION 32 93 00 - PLANTS (CONTINUED)

3.2 MAINTENANCE, CLEAN-UP AND ACCEPTANCE

A. MAINTENANCE OF PLANT MATERIALS:

1. MAINTENANCE OF PLANT MATERIALS WILL BEGIN UPON COMPLETION OF THE INSTALLATION OF THE LAST PLANT MATERIAL AND WILL CONTINUE FOR A PERIOD OF SIXTY (60) DAYS. MAINTENANCE PERIODS THAT HAVE NOT BEEN COMPLETED BY NOVEMBER 1ST, WILL BE COMPLETED THE FOLLOWING YEAR, BEGINNING ON MAY 1ST.
2. DURING THE MAINTENANCE PERIOD, THE CONTRACTOR MUST WATER AND STRAIGHTEN ALL PLANTS, AS WELL AS WEED PLANTING BEDS AND TREE RINGS.
3. THE OWNER WILL BE RESPONSIBLE FOR ALL MAINTENANCE REQUIREMENTS AFTER THIS REQUIRED SIXTY (60) DAY PERIOD.

B. CLEAN UP:

1. ALL DEBRIS GENERATED DURING THE INSTALLATION OF PLANT MATERIALS MUST BE REMOVED FROM THE SITE.
2. ALL PAVEMENTS AND WALKS MUST BE SWEPT AFTER EACH DAYS WORK. UPON COMPLETION OF THE WORK, ALL PAVEMENTS MUST BE WASHED TO REMOVAL MUD OR DIRT.

C. PRELIMINARY ACCEPTANCE:

1. UPON COMPLETION OF THE INSTALLATION OF ALL PLANT MATERIALS, THE CONTRACTOR MUST SUBMIT HIS REQUEST FOR AN INSPECTION TO DETERMINE PRELIMINARY ACCEPTANCE OF THE COMPLETED WORK. ALL SUCH REQUESTS MUST BE SUBMITTED TO THE OWNER'S REPRESENTATIVE AT LEAST 10 (TEN) DAYS IN ADVANCE.

D. FINAL ACCEPTANCE:

1. UPON COMPLETION OF THE MAINTENANCE PERIOD THE CONTRACTOR MUST SUBMIT HIS REQUEST FOR FINAL ACCEPTANCE OF THE COMPLETED WORK. ALL SUCH REQUESTS MUST BE SUBMITTED TO THE OWNER'S REPRESENTATIVE AT LEAST 10 (TEN) DAYS IN ADVANCE.
2. THE OWNER'S REPRESENTATIVE WILL REVIEW THE WORK AND DETERMINE WHETHER THE WORK SHOULD RECEIVE FINAL ACCEPTANCE. SHOULD THE OWNER'S REPRESENTATIVE FIND CONDITIONS THAT ARE NOT ACCEPTABLE, THE CONTRACTOR WILL BE NOTIFIED IN WRITING AND WILL BE REQUIRED TO MAKE CHANGES TO CORRECT THE UNACCEPTABLE CONDITION.
3. THE AUTHORITY HAVING JURISDICTION MAY CONDUCT A FINAL INSPECTION. ALL WORK SHALL BE COMPLETED ACCORDING TO THE APPROVED PLAN PRIOR TO FINAL ACCEPTANCE.

SCOTT PRESTON
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LANDSCAPE ARCHITECT

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PRESTON CREATIVE

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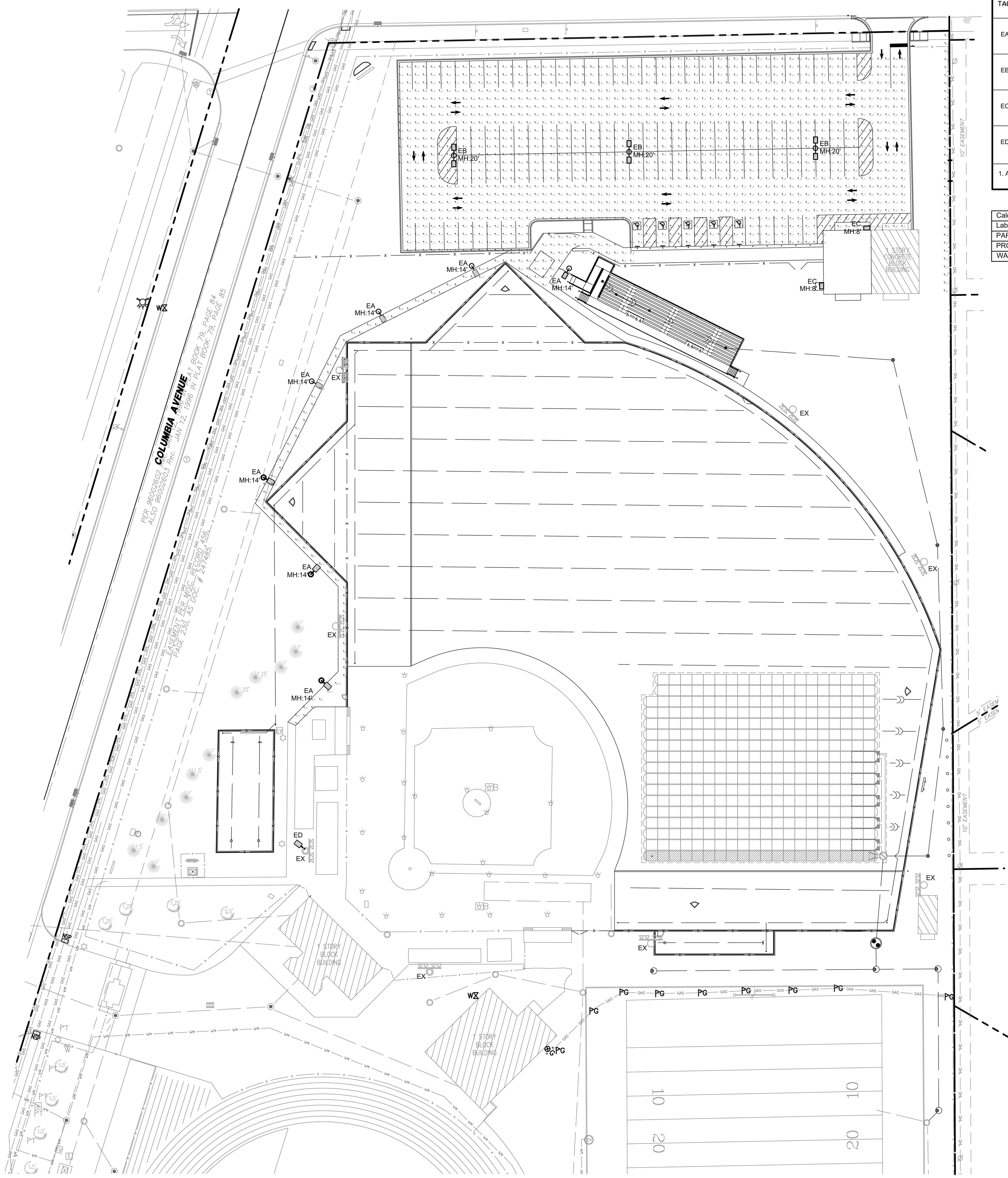
SCHOOL TOWN OF MUNSTER
MUNSTER HIGH SCHOOL
MUSTER HIGH SCHOOL - PARKING LOT AND STORAGE BUILDING ADDITION
8808 COLUMBIA AVE. MUNSTER, IN 46321

SCHOOL TOWN OF MUNSTER

DATE:	DESCRIPTION:

PROJECT #	2024.104
DATE:	FEBRUARY 20, 2025
SHEET TITLE:	SPECIFICATIONS
SHEET:	L3



① SITE PLAN - LIGHTING PHOTOMETRIC
1" = 30'-0"

EXTERIOR LIGHTING LUMINAIRE SCHEDULE

TAG	SYMBOL	DESCRIPTION	MANUFACTURER SERIES OR CATALOG NUMBER	VOLTAGE/ BALLAST	LAMPS/CROSS SECTION	MOUNTING	REMARKS
EA		LED TYPE 2 PEDESTRIAN AREA LIGHTING FIXTURE WITH 14' SQUARE STEEL POLE AND INTEGRAL PHOTOCELL	AOK #75WOT-NV-L3-SN-3070-T302-B-BZ	120/277 VOLT - - -	LED 3000K 12000LM 75W	TOP OF HEAD @ 14'-0" AFG CUSTOM POLE 12" BASE	EXACT POLE HEIGHT AND FINISH TO MATCH EXISTING. VERIFY IN FIELD PRIOR TO ORDERING.
EB		DUAL HEAD LED TYPE 4 PARKING LOT AREA LIGHTING FIXTURE WITH 20' SQUARE STEEL POLE AND INTEGRAL PHOTOCELL	AOK #115WOT-NV-L3-SN-3070-T502-B-BZ	120/277 VOLT - - -	LED 3000K 18860LM 115W	TOP OF HEAD @ 20'-0" AFG CUSTOM POLE 36" BASE	
EC		LED FULL CUTOFF WALL PACK	KORLITE #KWPD-LMW-MC-LV	120/277 VOLT - - -	LED 3000K 9,160LM 63W	SURFACE WALL MTD. 8'-0" A.F.G. -	
ED		SUPPLEMENTAL LED SPORTS FIELD LIGHTING FOR BULLPEN	MUSCO	480 VOLT - - -	LED 5700K 75 CRI	POLE MTD.	EXACT MOUNTING HEIGHT AND MODEL NUMBER TO BE COORDINATED WITH MANUFACTURER.

1. ALL EXTERIOR FIXTURE STANDARD FINISHES TO BE SELECTED BY ARCHITECT.

Calculation Summary

Label	CalcType	Units	Avg	Max	Min
PARKING	Illuminance	Fc	2.58	39.4	0.2
PROP LINE	Illuminance	Fc	0.06	0.1	0.0
WALKWAY	Illuminance	Fc	4.67	14.7	0.3

PRELIMINARY
Plotted: February 19, 2025
NOT FOR CONSTRUCTION

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SCHOOL TOWN OF MUNSTER
MUNSTER HIGH SCHOOL
2024 BASEBALL & SOCCER FIELD IMPROVEMENTS
8808 COLUMBIA AVE. MUNSTER, IN 46321

DATE:	DESCRIPTION:
02/14/2024	Progress Set

PROJECT # 2024.067
DATE: FEBRUARY 14, 2025
SHEET TITLE: SITE PLAN LIGHTING PHOTOMETRIC
SHEET: PH1.0