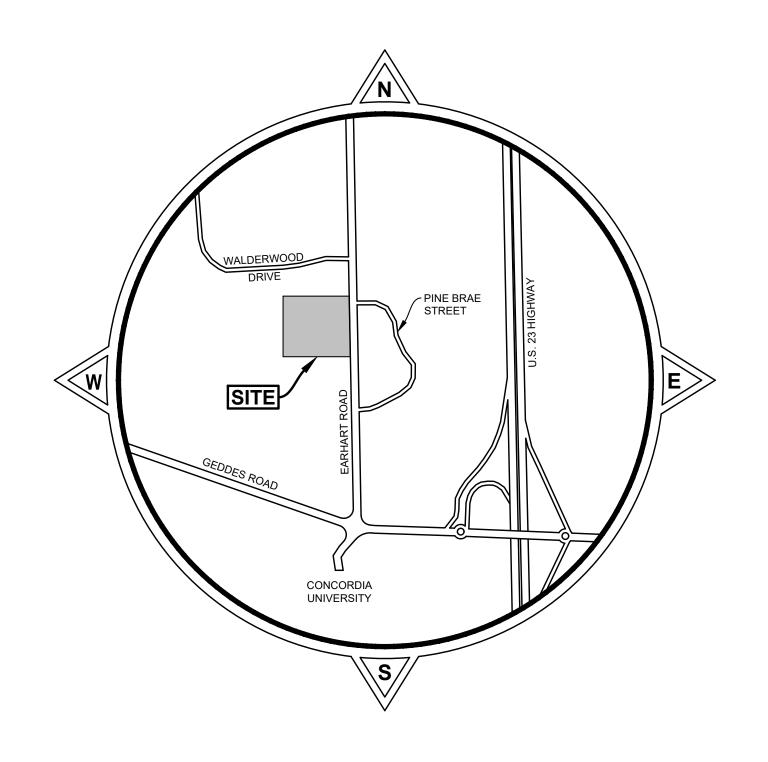
# St. Paul Lutheran School

## 495 Earhart Road

## City of Ann Arbor, Washtenaw County, Michigan Site Plan for Planning Commission Approval (Type 2)





### **COMPARISON CHART**

	existing	REQUIRED/ ALLOW ABLE	PROPOSED
ZONING	R1-B	-	R1-B
LOT AREA	29.92 ac	10,000	29.92 ac
LOT WIDTH	1391	70	1391
FLOOR AREA	23,750	58,000	26,368
FLOOR AREA RATIO	1.8%	-	2%
FRONT SETBACK (EAST)	208.5	30	208.5
REAR SETBACK (WEST)	241.3	40	241.3
SIDE SETBACK (NORTH)	77.8	Min 5, Total 14	44.9
SIDE SETBACK (SOUTH)	888.1	Min 5, Total 14	888.1
HEIGHT	15	30	25.5
PARKING SPACES	112	0 Min/Max	171
BICYCLE SPACES	60	70*	70
EV-I SPACES	-	(10%) 18	18
EV-C SPACES	-	(40%) 69	69

\* 5 PER CLASSROM @ 14 CLASSROOMS = 70 CLASS C

BICYCLE PARKING SPACES NOTE: ALL BICYCLE SPACES, EXISTING AND PROPOSED, ARE TYPE C

#### **OWNER/APPLICANT**

ST. PAUL LUTHERAN CHURCH 495 EARHART ROAD ANN ARBOR, MICHIGAN 48105 **DENNIS KUHN** SS\_PAC@YAHOO.COM (734) 277-5898

#### **INDEX TO SHEETS**

COVER SHEET	C1
OVERALL SITE PLAN	C2
TOPOGRAPHICAL SURVEY OVERALL	C3
TOPOGRAPHICAL SURVEY NORTH	C3A
REMOVAL PLAN	C4
LAYOUT PLAN	C5
UTILITY PLAN	C6
GRADING AND STORM WATER MANAGEMENT PLANS	
BUILDING ADDITION PLAN	C9
SOIL EROSION AND SEDIMENTATION CONTROL PLANS	C10-C11
SIGNAGE AND PAVEMENT MARKING PLAN	C12
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LANDSCAPE PLAN	C14
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SOLID WASTE PLAN	C17
ALTA SURVEY	C18
FLOOR PLAN	A101
ELEVATIONS	A201

#### **LEGAL DESCRIPTION**

PART OF THE SOUTHEAST QUARTER OF SECTION 26, TOWN 2 SOUTH, RANGE 6 EAST, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN BEING DESCRIBED AS:

BEGINNING AT THE EAST QUARTER CORNER OF SECTION 26, TOWN 2 SOUTH, RANGE 6 EAST; THENCE SOUTH 89 DEGREE 09 MINUTES 10 SECONDS WEST 1335.29 FT; THENCE SOUTH 00 DEGREE 18 MINUTES 26 SECONDS EAST 326.38 FT; THENCE NORTH 89 DEGREE 09 MINUTES 10 SECONDS EAST 471.96 FT; THENCE SOUTH 00 DEGREE 08 MINUTES 50 SECONDS EAST 1064.55 FT; THENCE NORTH 89 DEGREE 09 MINUTES 10 SECONDS EAST 859.32 FT; THENCE NORTH 00 DEGREE 01 MINUTES 10 SECONDS WEST 1390.98 FT TO THE POINT OF BEGINNING; CONTAINING 31.03 ACRES MORE OR LESS. BEING SUBJECT TO ROW OVER EASTERLY 33 FEET AND ANY OTHER EASEMENT OR RESTRICTIONS OF RECORD. SPLIT ON 11/03/1999 FROM 09-09-26-400-006.

SUBJECT TO ANY AND ALL EASEMENTS AND RIGHTS OF WAY OF RECORD OR OTHERWISE

FROM RECORDS ONLY. NO FIELD SURVEY PERFORMED.

#### **STATEMENTS**

<u>INTEREST IN LAND</u> THE PETITIONER WILL BE THE OWNER AND DEVELOPER OF THE PROPERTY.

APPLICATIONS
PETITIONER IS SEEKING PLANNING COMMISSION APPROVAL FOR SITE PLAN (TYPE 2). PROPERTY IS SUBJECT TO SEU, NO MODIFICATIONS ARE BEING REQUESTED. NO REGULATED WETLANDS ARE PROPOSED TO BE DISTURBED.

THE SITE CONSISTS OF AN EXISTING SCHOOL AND PARKING LOT AND THE PROJECT CONSISTS OF A PROPOSED 2,582 SQUARE FOOT BUILDING ADDITION FOR A NEW LIBRARY, REMOVAL OF THE EXISTING PARKING LOT, CONSTRUCTING A RE-CONFIGURED PARKING LOT, AND PROVIDING INCREASED STORM WATER DETENTION FOR THE INCREASED STORM WATER RUNOFF. THE PROPOSED DEVELOPMENT IS ANTICIPATED TO HAVE A POSITIVE IMPACT ON THE COMMUNITY, PROVIDING A STATE OF THE

THE ESTIMATED PROBABLE COST OF THIS PROJECT IS \$4,000,000.

THE SITE IS USE, NOT RESIDENTIAL, NO IMPACT ON PUBLIC SCHOOLS. THE RELATIONSHIP OF THE INTENDED USE TO THE NEIGHBORING USES WILL NOT CHANGE WITH PROPOSED IMPROVEMENTS. ADJACENT USES ARE DEVELOPED, NO POTENTIAL IMPACT FROM THEIR DEVELOPMENT.

ART LIBRARY, INCREASED PARKING LOT EFFICIENCY AND MANEUVERABILITY, AND SAFER DROP OFF FOR STUDENTS AND

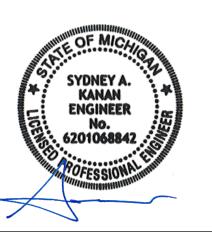
PROPOSED IMPROVEMENTS DO NOT AFFECT AIR/WATER QUALITY. NATURAL FEATURES ON SITE ARE BEING IMPACTED DUE TO THE STORM WATER DETENTION REQUIREMENTS, BUT EXISTING DETENTION IS BEING RETROFIT TO MINIMIZE IMPACT TO **EXISTING NATURAL FEATURES** NO HISTORIC IMPACT APPLICABLE.

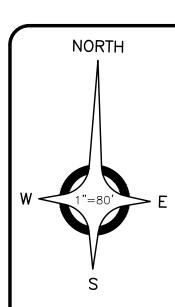
ASSESSMENT REPORT PREPARED BY ASTI ENVIRONMENTAL, DATED OCTOBER 20, 2023.

NO ADDITIONAL TRIPS ARE BEING GENERATED FROM THE PROPOSED IMPROVEMENTS ALL SIDEWALKS SHALL BE KEPT AND MAINTAINED IN GOOD REPAIR BY THE OWNER OF THE LAND ADJACENT TO AND ABUTTING THE SAME, PRIOR TO THE ISSUANCE OF THE FINAL CERTIFICATE OF OCCUPANCY FOR THIS SITE, ALL EXISTING SIDEWALKS IN NEED OF REPAIR MUST BE REPAIRED IN ACCORDANCE WITH THE CITY STANDARDS. NATURAL FEATURES EXIST ON SITE, INCLUDING LANDMARK TREES, WETLANDS, WOODLANDS. SEE NATURAL FEATURES

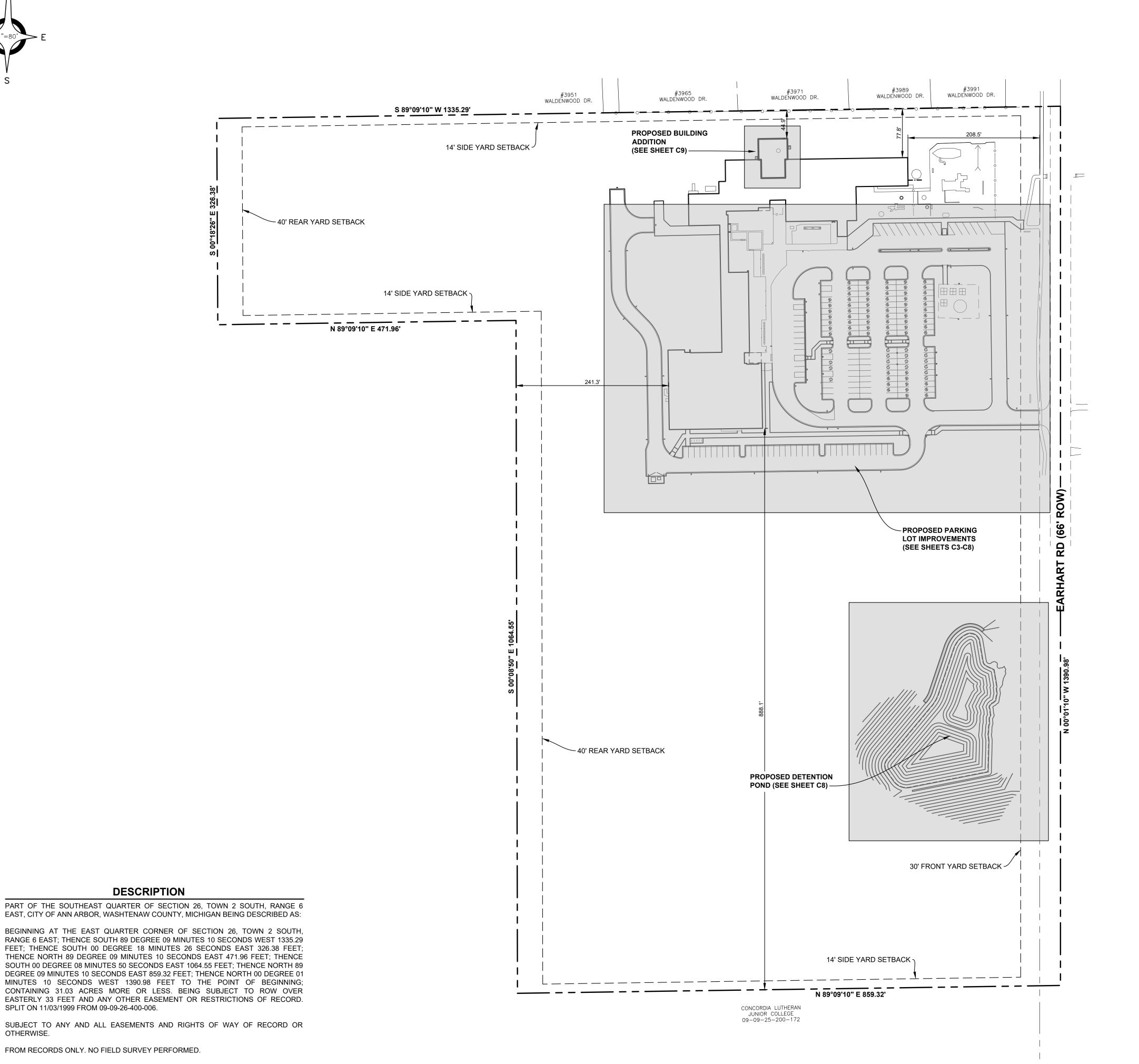
ANDERSON, ECKSTEIN AND WESTRICK, INC.

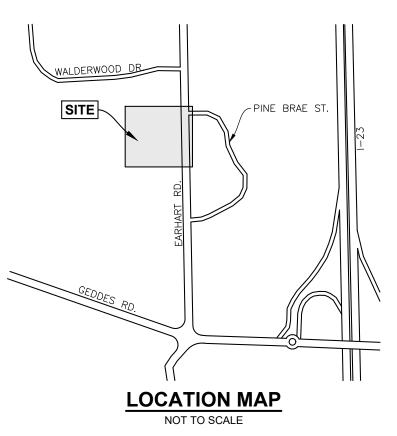
CIVIL ENGINEERS, LAND SURVEYORS, ARCHITECTS SHELBY TOWNSHIP, MICHIGAN





SPLIT ON 11/03/1999 FROM 09-09-26-400-006.





#### SITE DATA

PARCEL No.: 09-09-26-400-007 ADDRESS: 495 EARHART ROAD **CURRENT ZONING:** R1-B SINGLE FAMILY DWELLING CURRENT USE: CHURCH/SCHOOL GROSS SITE AREA: 31.02 Ac. NET AREA (MINUS ROW): 29.92 Ac.

EXISTING BUILDING: 23,492 S.F 2,582 S.F. PROPOSED ADDITION:

PARKING REQUIRED:

SPACES PROVIDED: 171 ADA REQUIRED: 6 (1 VAN) ADA PROVIDED: 6 (6 VAN)

EV PARKING REQUIRED:

EV-C = 40% SCHOOL, PRIVATE: EV-I = 10%

SPACES REQUIRED, EV-C: 69 SPACES REQUIRED, EV-I: 18 SPACES PROVIDED, EV-C: 69 SPACES PROVIDED, EV-I:

**BICYCLE PARKING REQUIRED:** 

SCHOOL, PRIVATE: CL C = 100% SPACES REQUIRED: 70 SPACES EXISTING: 60 SPACES PROPOSED:

SITE SETBACK, HEIGHT STANDARDS

FRONT: BACK: 241.3' 5' (MIN), 14' (TOTAL) 44.9' SIDE:

WATER SERVICE EXISTING WATER SERVICE WILL BE UTILIZED. NO IMPROVEMENTS TO THE WATER SERVICE ARE PROPOSED. FIRE SUPPRESSION WILL BE ADDED TO THE EXISTING AND PROPOSED BUILDING.

SANITARY SEWER

EXISTING SANITARY SERVICE WILL BE UTILIZED. NO IMPROVEMENTS TO THE SANITARY SYSTEM ARE PROPOSED. NO ADDITIONAL FLOW IS PROPOSED, THEREFORE, NO SANITARY

STORM SEWER/SITE DRAINAGE

MITIGATION IS REQUIRED.

SITE DRAINAGE WILL NOT BE ALTERED OR REDIRECTED IN AREAS WHICH ARE NOT PROPOSED TO BE DISTURBED. ALL DISTURBED AREA (AND ANY TRIBUTARY AREA ALREADY DRAINING TO DISTURBED AREAS) WILL BE ROUTED TO THE PROPOSED DETENTION POND. THE EXISTING DETENTION POND, DRAINAGE PATTERN, AND OUTLET, WILL BE UTILIZED TO THE MAXIMUM EXTENT POSSIBLE TO AVOID UNNECESSARY DISTURBANCE TO EXISTING NATURAL FEATURES.

PROPOSED PARKING LOT PAVEMENT WILL BE BITUMINOUS PAVEMENT WITH CONCRETE CURB AND GUTTER, AND CONFORM TO THE CITY OF ANN ARBOR PAVING STANDARDS.

SIDEWALKS WILL BE PROVIDED FOR INTERIOR SITE MOVEMENT.

EXISTING SIDEWALK WILL BE REPLACED AS NEEDED.

RIGHT-OF-WAY IMPROVEMENTS NO RIGHT-OF-WAY IMPROVEMENTS ARE PROPOSED.

TRIP GENERATION/TRAFFIC STUDY

TRIP GENERATION CALCULATIONS FOR SCHOOLS ARE CALCULATED BASED ON NUMBER OF STUDENTS. THE PROPOSED BUILDING ADDITION IS NOT CORRELATED TO AN EXPECTED INCREASE IN STUDENT POPULATION. THEREFORE, NO ADDITIONAL TRIPS ARE BEING GENERATED BY THE PROPOSED IMPROVEMENTS. NO TRAFFIC IMPACT STUDY OR ANALYSIS IS REQUIRED AS THE PROPOSED IMPROVEMENTS DO NOT GENERATE MORE THAN 50 ADDITIONAL TRIPS TO ANY GIVEN PEAK HOUR, AND NO IMPROVEMENTS ARE PROPOSED IN THE EARHART ROAD ROW.



ANDERSON, ECKSTEIN AND WESTRICK, INC.

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Shelby Township Michigan 48315

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ST. PAUL LUTHERAN **SCHOOL SITE** 

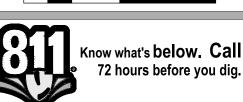
SUBMITTALS/REVISIONS

SHEET TITLE:

PROJECT NAME

OVERALL SITE PLAN

ST. PAUL LUTHERAN CHURCH



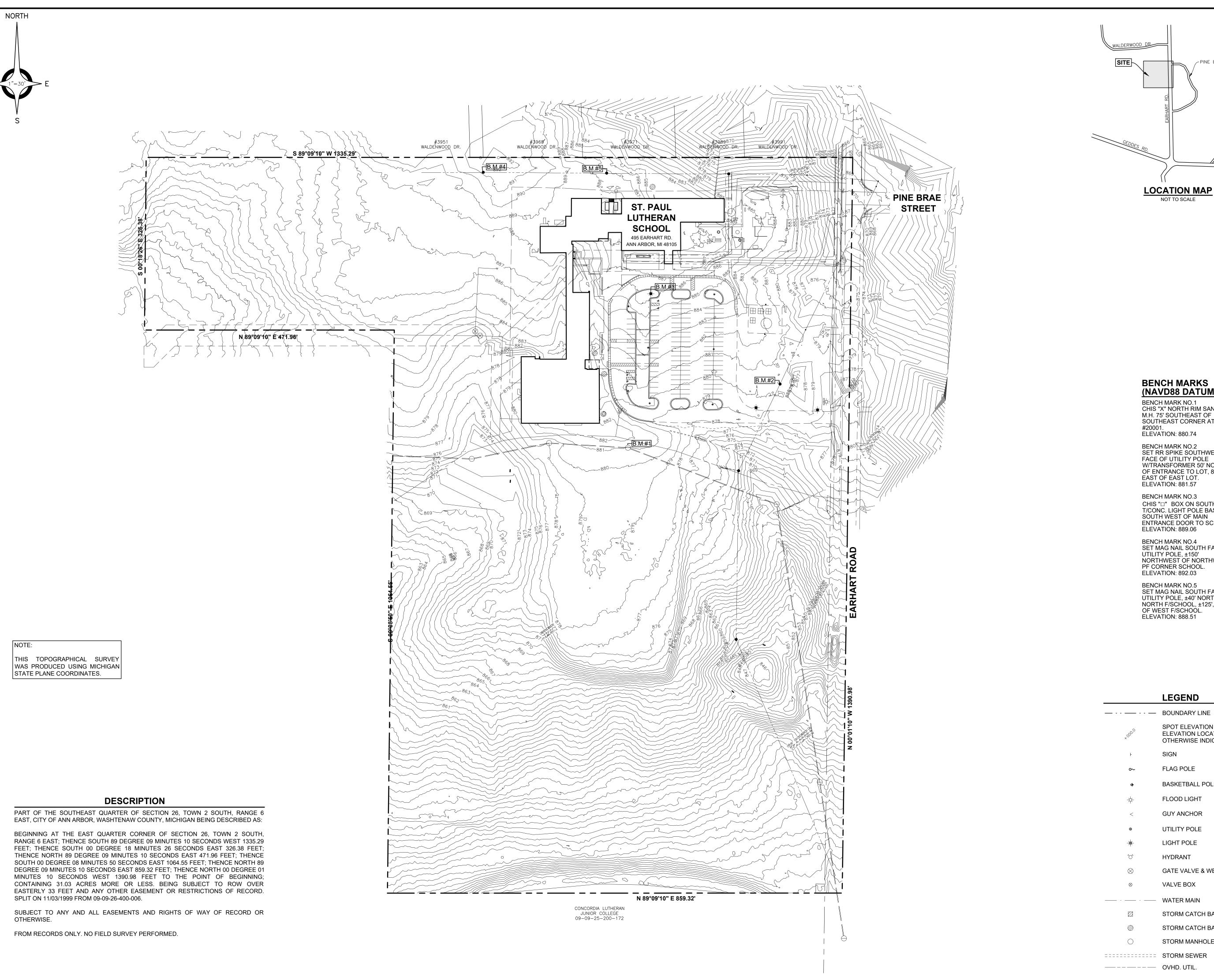
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PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO. 1688-0001

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SITE PLAN SUBMITTAL SITE PLAN SUBMITTAL

SITE PLAN SUBMITTAL

ST. PAUL LUTHERAN

SCHOOL SITE

**IMPROVEMENTS** 

**TOPOGRAPHICAL** 

**SURVEY** 

**OVERALL** 

ST. PAUL LUTHERAN CHURCH

AUGUST 25, 2023

Know what's below. Call

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THAT UTILITY).

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BIDS & CITY SUBMITTAL

SUBMITTALS/REVISIONS

09-18-2025

07-24-2025

07-09-2024

01-05-2024

DATE

PROJECT NAME:

SHEET TITLE:

Phone 586 726 1234 Fax 586 726 8780

**BENCH MARKS** (NAVD88 DATUM)

BENCH MARK NO.1 CHIS "X" NORTH RIM SANITARY M.H. 75' SOUTHEAST OF SOUTHEAST CORNER AT

ELEVATION: 880.74

SET RR SPIKE SOUTHWEST FACE OF UTILITY POLE W/TRANSFORMER 50' NORTH OF ENTRANCE TO LOT, 80' EAST OF EAST LOT. ELEVATION: 881.57

BENCH MARK NO.3 CHIS "□" BOX ON SOUTHWEST T/CONC. LIGHT POLE BASE ±60 SOUTH WEST OF MAIN ENTRANCE DOOR TO SCHOOL. ELEVATION: 889.06

BENCH MARK NO.4 SET MAG NAIL SOUTH FACE OF UTILITY POLE, ±150' NORTHWEST OF NORTHWEST PF CORNER SCHOOL. ELEVATION: 892.03

BENCH MARK NO.5 SET MAG NAIL SOUTH FACE UTILITY POLE, ±40' NORTH OF NORTH F/SCHOOL, ±125', EAST OF WEST F/SCHOOL. ELEVATION: 888.51

— · · · — BOUNDARY LINE

SPOT ELEVATION ("+" INDICATES ELEVATION LOCATION UNLESS OTHERWISE INDICATED)

SIGN

FLAG POLE

BASKETBALL POLE

UTILITY POLE

GATE VALVE & WELL

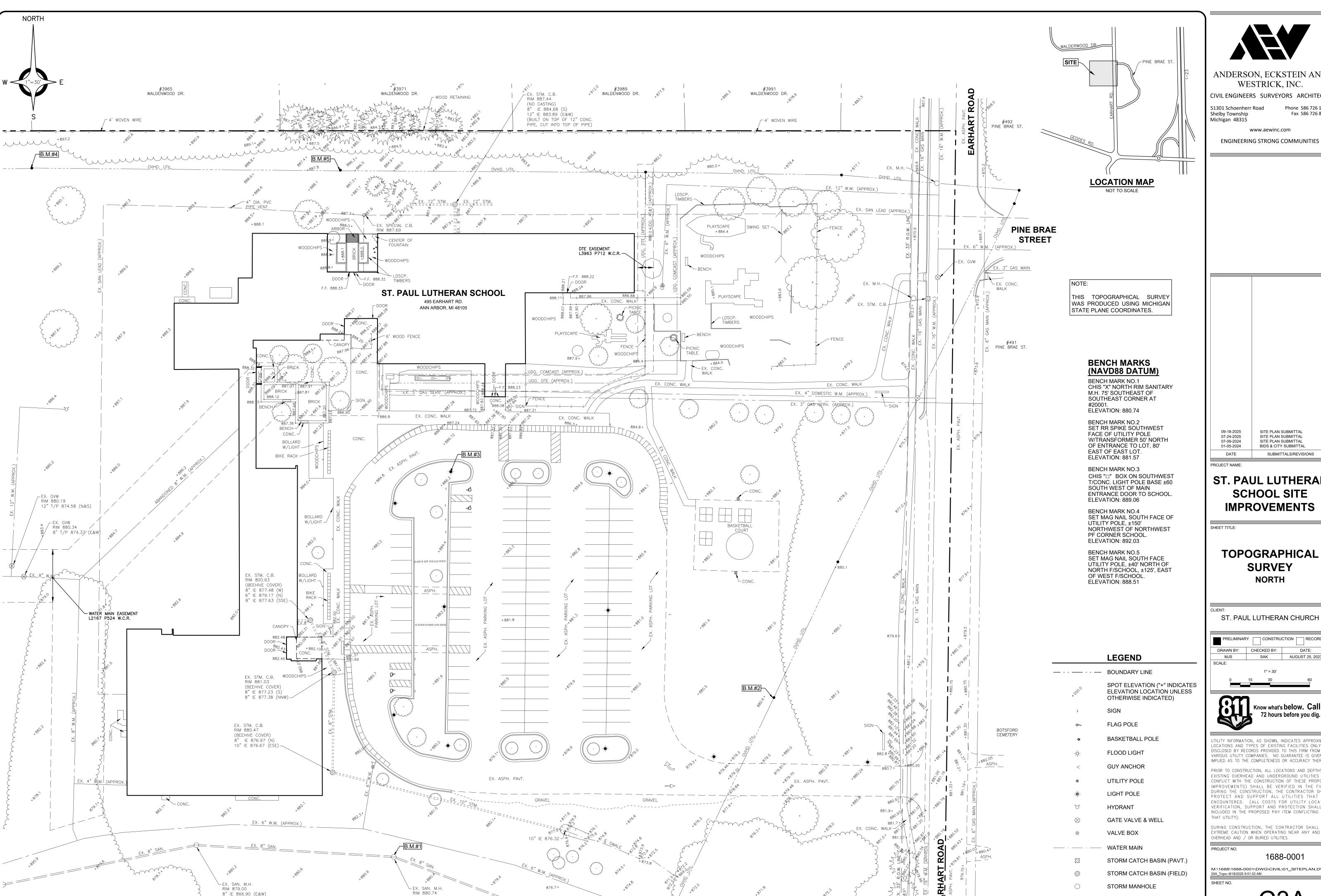
VALVE BOX

STORM CATCH BASIN (PAVT.)

STORM CATCH BASIN (FIELD)

STORM MANHOLE

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8" IE 866.90 (E&W)

8" IE 865.89 (E&W)



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SUBMITTALS/REVISIONS

**TOPOGRAPHICAL SURVEY** NORTH

AUGUST 25, 2023



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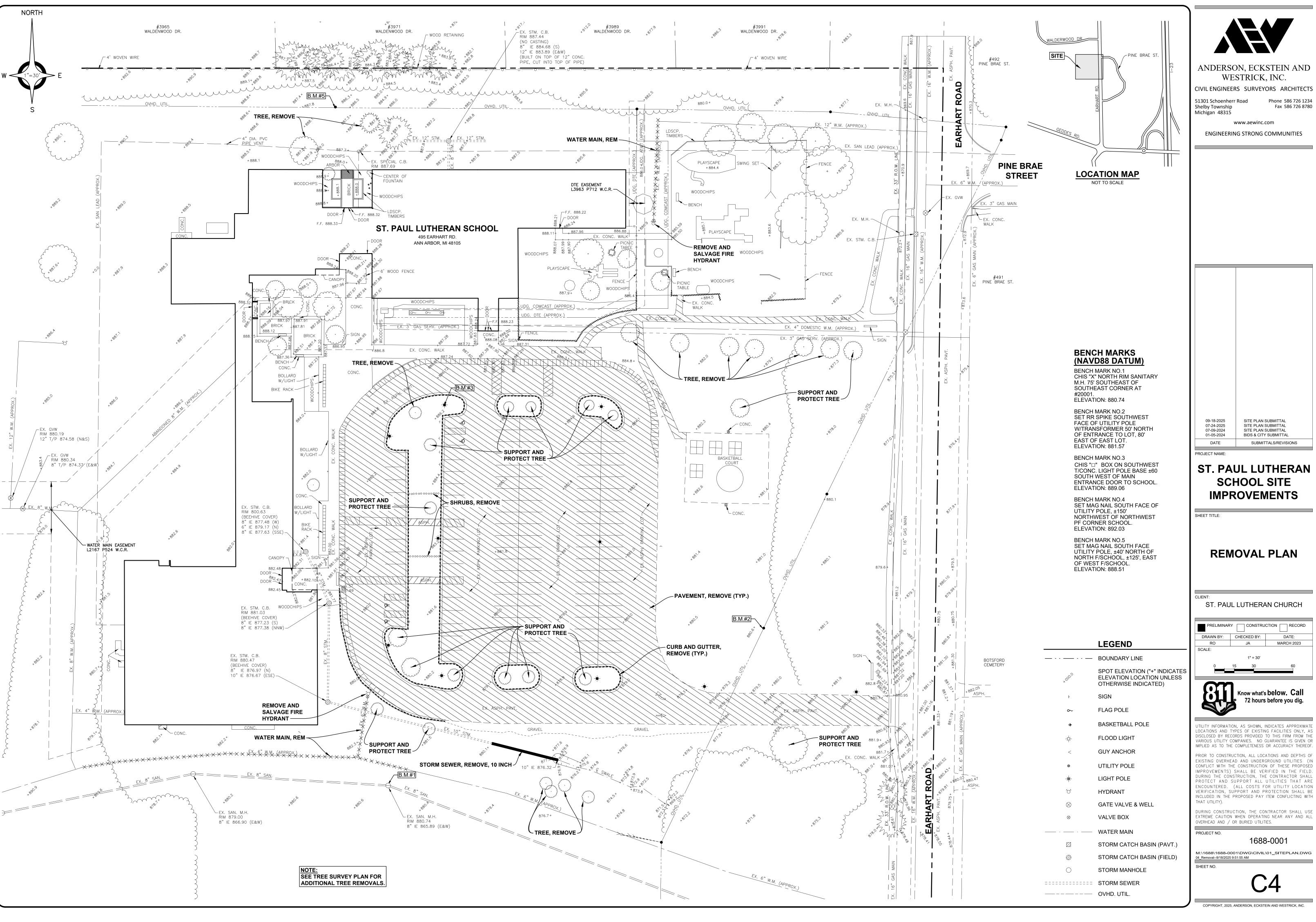
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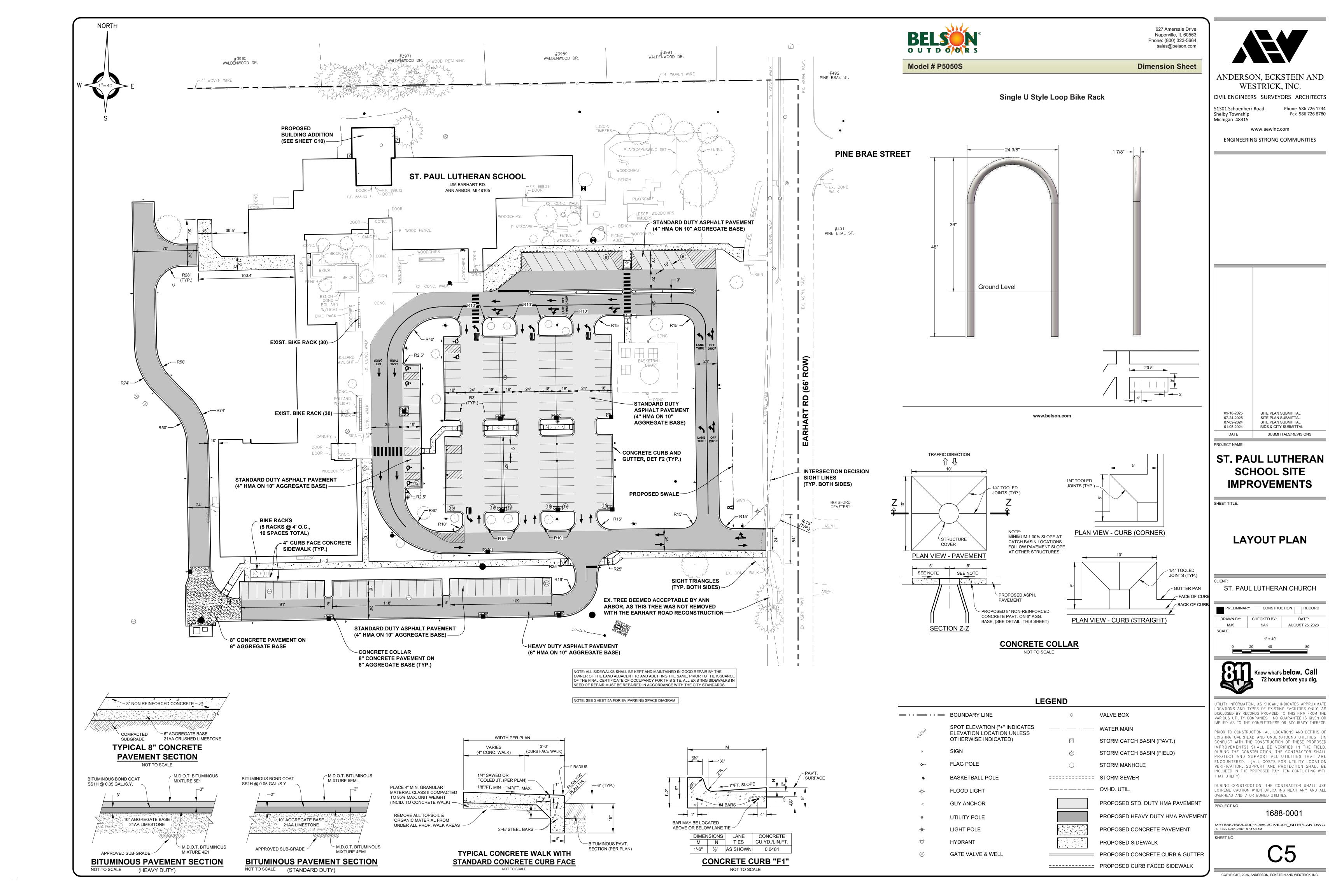
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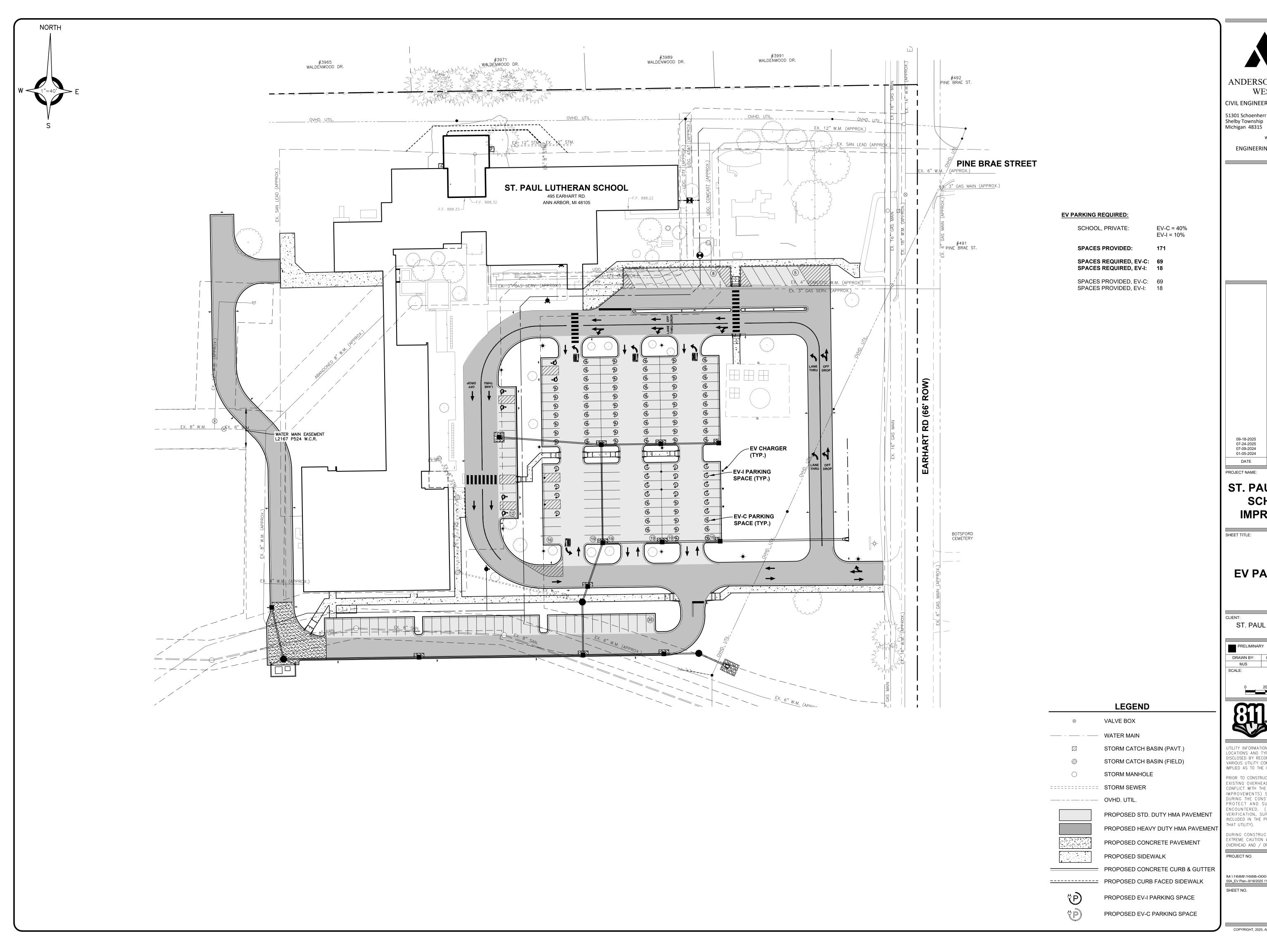
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========== STORM SEWER

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PROJECT NAME:

#### ST. PAUL LUTHERAN SCHOOL SITE **IMPROVEMENTS**

SUBMITTALS/REVISIONS

SHEET TITLE:

#### **EV PARKING PLAN**

ST. PAUL LUTHERAN CHURCH

DRAWN BY: CHECKED BY: DATE:

MJS SAK AUGUST 25, 2023



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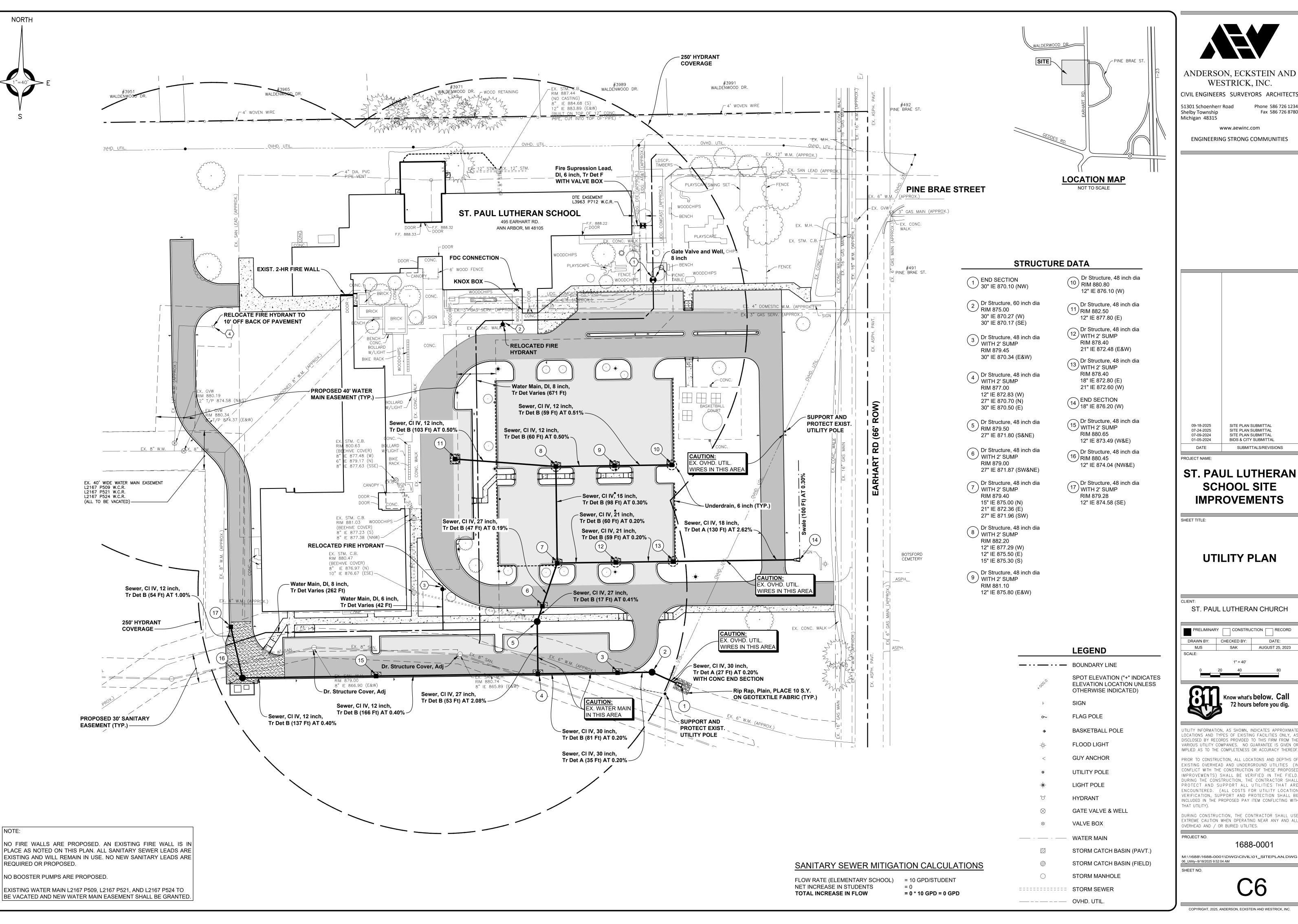
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SCHOOL SITE

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**UTILITY PLAN** 

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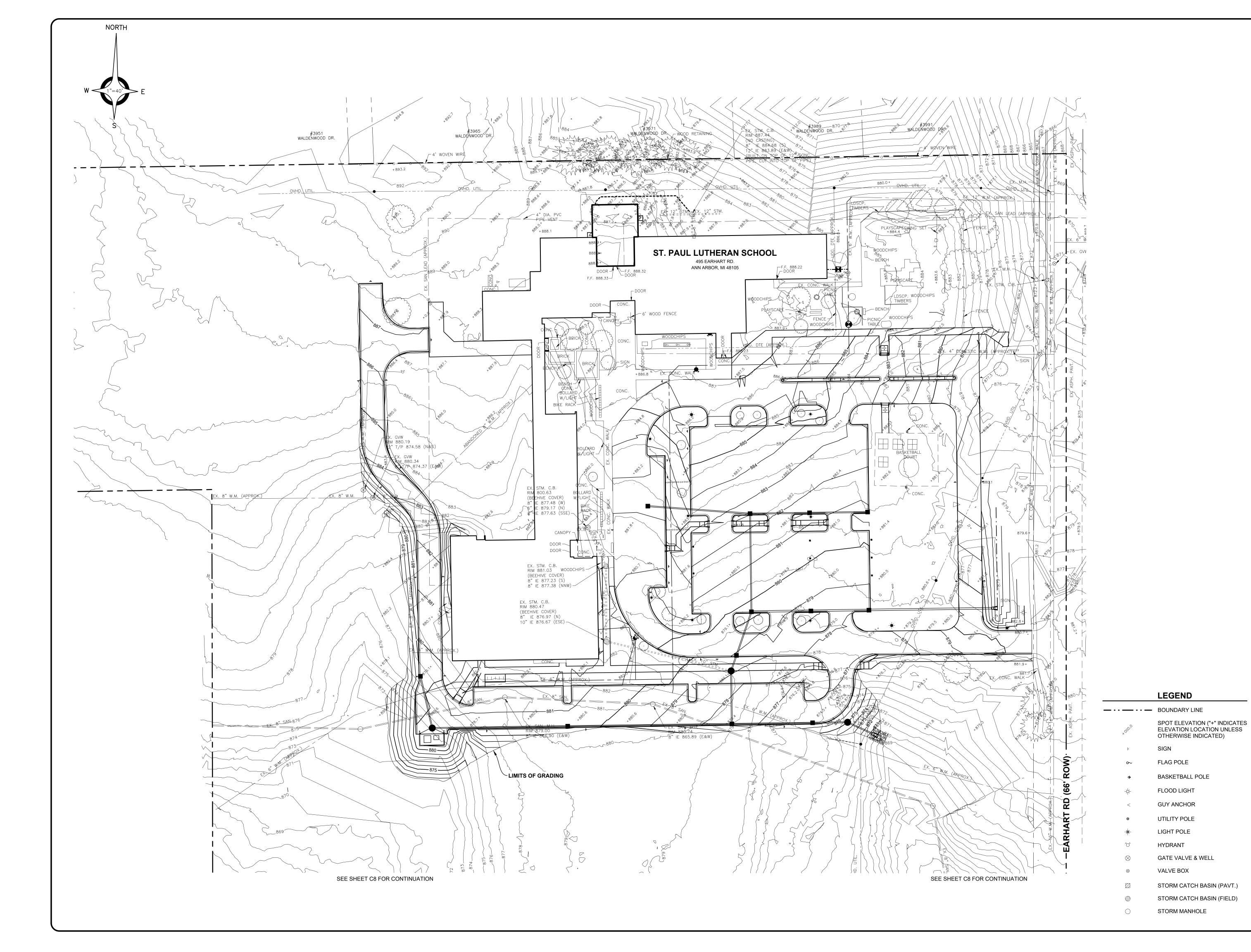
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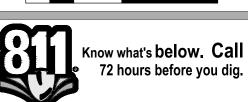
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PROJECT NAME:

**GRADING AND STORMWATER MANAGEMENT PLAN** 

ST. PAUL LUTHERAN CHURCH DRAWN BY: CHECKED BY: DATE:

MJS SAK AUGUST 25, 2023



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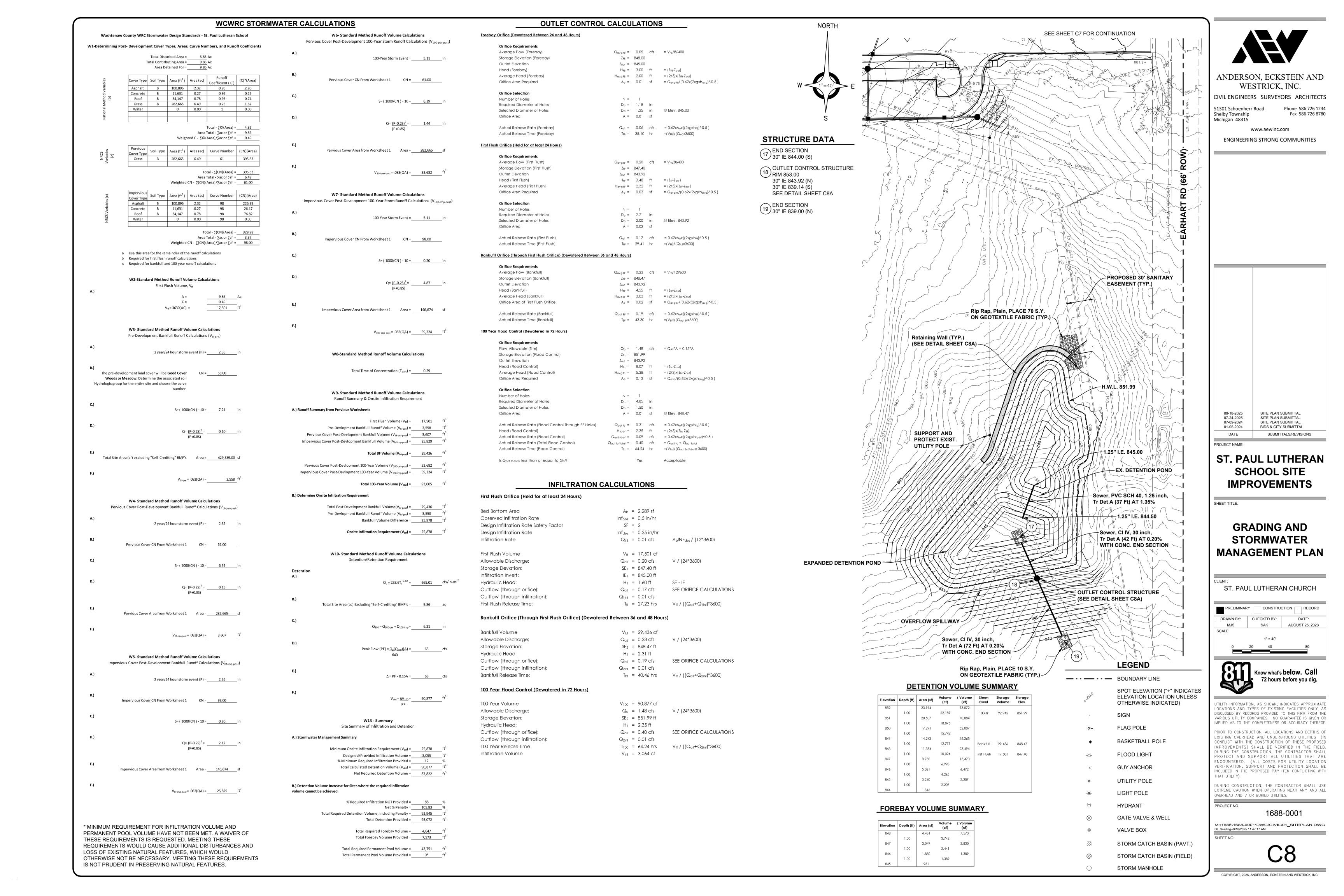
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PROJECT NO.

1688-0001

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**TASKS** 

INSPECT FOR SEDIMENT ACCUMULATION

REMOVAL OF SEDIMENT ACCUMULATION

**INSPECT FOR FLOATABLES AND DEBRIS** 

**CLEANING OF FLOATABLES AND DEBRIS** 

INSPECTION FOR EROSION

RE-ESTABLISH PERMANANET VEGETATION ON ERODED SLOPES

REPLACEMENT OF STONE

CLEAN STREETS

MOWING

INSPECT STRUCTURAL ELEMENTS DURING WET WEATHER AND

COMPARE TO AS-BUILT PLANS

MAKE ADJUSTMENTS OR REPLACEMENTS AS DETERMINED BY

ANNUAL WET WEATHER INSPECTION

KEEP RECORDS OF ALL INSPECTIONS AND MAINTENANCE

ACTIVITIES AND REPORT TO CONDOMINIUM ASSOCIATION

KEEP RECORDS OF ALL COSTS FOR INSPECTIONS, MAINTENANCE

AND REPAIRS. REPORT TO CONDOMINIUM ASSOCIATION

PERMANENT MAINTENANCE TASKS AND SCHEDULE

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#### July 24, 2025

#### **Storm Water Maintenance Plan** ST. PAUL LUTHERAN SCHOOL

#### 1. Responsibility for Maintenance

- a. During and following construction, it is the Owners responsibility to perform the
- b. Routine maintenance of the storm water facilities must be completed within 90 days of receipt of written notification that action is required, unless other acceptable arrangements are made with the (City of Ann Arbor), (Washtenaw County Water Resources Commissioner) or successors. Emergency maintenance (i.e. when there is endangerment to public health, safety, or welfare) shall be performed immediately upon receipt of written notice. Should the Owner fail to act within these time frames, the (City of Ann Arbor), (Washtenaw County Water Resources Commissioner) or successors may perform the needed maintenance and assess the costs to the Owner.

#### 2. Source of Financing

a. The Owner is required to pay for all maintenance activities on a continuing basis.

#### 3. Maintenance Tasks and Schedule

- a. See charts on the next two pages 2 and 3:
  - i. The first describes maintenance tasks during construction to be performed by the developer.
  - ii. The second describes maintenance tasks post construction to be performed by the Condominium Association.
- b. Immediately following construction, the Owner will have the storm water management system inspected by an engineer to verify grades of the detention and filtration areas and make recommendations for any necessary sediment removal.

#### 4. Maintenance Plan Budget

a. See chart on page 4

AEW Job No. 1688-0001 July 24, 2025 Page 2 of 4

#### MAINTENANCE PLAN BUDGET

Pag	ge 1 of 4		
	ANNUAL INSPECTION FOR SEDIMENT ACCUMULATION	\$	400.00
	REMOVAL OF SEDIMENT ACCUMULATION EVERY 2 YEARS AS NEEDED	\$	2,400.00
	INSPECT FOR FLOATABLES AND DEBRIS ANNUALLY AND AFTER MAJOR STORMS	\$	400.00
	REMOVAL OF FLOATABLES AND DEBRIS ANNUALLY AND AFTER MAJOR STORMS	\$	900.00
	INSPECT SYSTEM FOR EROSION ANNUALLY AND AFTER MAJOR STORMS	\$	400.00
	RE-ESTABLISH PERMANENT VEGETATION ON ERODED SLOPES AS NEEDED	\$	1,800.00
	REPLACEMENT OF STONE	\$	1,600.00
	MOWING 0-2 TIMES PER YEAR	\$	900.00
	INSPECT STRUCTURAL ELEMENTS DURING WET WEATHER AND COMPARE TO AS BUILT PLANS EVERY 2 YEARS	\$	600.00
	MAKE STRUCTURAL ADJUSTMENTS OR REPLACEMENTS AS DETERMINED BY INSPECTION AS NEEDED	\$	1,800.00
	HAVE A PROFESSIONAL ENGINEER CARRY OUT EMERGENCY INSPECTIONS UPON IDENTIFICATION OF SEVERE PROBLEMS	\$	900.00
		-	

TOTAL ANNUAL BUDGET \$ 12,100.00

**ENGINEER'S CERTIFICATE OF OUTLET** 



#### **ENGINEER'S CERTIFICATE OF OUTLET**

Date: July 24, 2025

St. Paul Lutheran School **Development Name:** Ann Arbor, Section 26 City, Village or Township of: Washtenaw County, Michigan

I hereby certify that the existing outlet to the Earhart Road ROW is the only reasonably achievable stormwater outlet for the proposed stormwater management system, the detention pond is designed for a 100 year storm event, and the storm water discharge is limited to predevelopment runoff rates.

Signed, Sydney A. Kanan, PE Project Manager

Page 4 of 4

51301 Schoenherr Road, Shelby Township, MI 48315 **Engineering Strong Communities** 

#### MAINTENANCE TASKS AND SCHEDULE DURING CONSTRUCTION

TASKS	STORM SEWER SYSTEMS	CATCH BASIN SUMPS	CATCH BASIN INLET CASTINGS	CHANNELS AND SWALES	OUTFLOW CONTROL STRUCTURE	RIP-RAP	STORM DETENTION AREAS	EMERGENCY OVERFLOW	SCHEDULE
INSPECT FOR SEDIMENT ACCUMULATION				X	Х		Х		WEEKLY
REMOVAL OF SEDIMENT ACCUMULATION				X	Х		Х		AS NEEDED AND PRIOR TO TURNOVER
INSPECT FOR FLOATABLES AND DEBRIS				X	X		Х		QUARTERLY
CLEANING OF FLOATABLES AND DEBRIS	A			Χ	Х		Х		QUARTERLY AND AT TURNOVER
INSPECTION FOR EROSION			1	Х	Х		Х		WEEKLY
GENERAL NPDS INSPECTION FOR PERTINENT SOIL EROSION CONTORL MEASURES									WEEKLY OR AFTER RAINFALL EVENT
RE-ESTABLISH PERMANANET VEGETATION ON ERODED SLOPES				Х	Х		Х		AS NEEDED AND PRIOR TO TURNOVER
REPLACEMENT OF STONE	1,00				Х				AS NEEDED
MOWING				Χ			Х		0 TO 2 TIMES PER YEAR
INSPECT STRUCTURAL ELEMENTS DURING WET WEATHER AND COMPARE TO AS-BUILT PLANS				Х	Х		Х		ANNUALLY AND AT TURNOVER
MAKE ADJUSTMENTS OR REPLACEMENTS AS DETERMINED BY PRE TURNOVER INSPECTION				Х	х		х		AS NEEDED

### STORMWATER NARRATIVE

Page 3 of 4



July 24, 2025

Peter Stephens City of Ann Arbor 301 E. Huron St. Ann Arbor, Michigan 48104

**Reference: Stormwater Narrative** St. Paul Lutheran School AEW Project No. 1688-0001

#### Dear Mr. Stephens:

St. Paul Lutheran School is an existing development with a detention pond that outlets on grade near the southeast corner of the site, ultimately discharging overland to the Earhart Road ROW. The proposed improvements for the site include removal and reconstruction of the existing parking lot, parking lot addition, ring road construction, stormwater sewer collection system, and detention pond expansion.

The expanded detention pond is sized to accommodate the total area tributary to the pond (9.86 ac), including area by direct runoff, or through the stormwater collection system.

In addition to detention, infiltration testing was conducted in the existing detention pond, and the resulted in an infiltration rate of 0.5 in/hr. The calculations presented on the plans and described herein include release rates for the both infiltration into the soil, and release through the outlet control structure. All calculations were completed in accordance with the Washtenaw County Water Resources Commissioner Rules and Guidelines for Stormwater Management.

The first flush calculations resulted in a required detention of 17,501 cf. It is proposed to restrict this volume using one 2-inch orifice hole, resulting in a release time of 29.20 hours, meeting the standard of releasing this volume over a span of time not less than 24 hours.



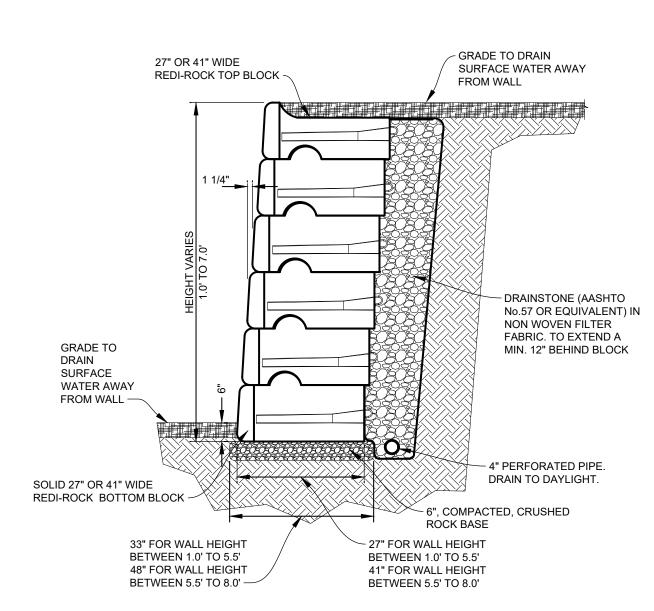
St. Paul July 24, 2025 Page 2

51301 Schoenherr Road, Shelby Township, MI 48315 **Engineering Strong Communities** 

The bankfull calculations resulted in a required detention of 29,436 cf. It is proposed to restrict this volume using the same 2-inch orifice hole, resulting in a release time of 43.11 hours, meeting the standard of releasing this volume at a time between 36 and 48 hours.

The 100-year calculations resulted in a required detention of 90,809 cf. It is proposed to restrict this volume using the 2-inch orifice hole and three 2.5-inch orifice holes, resulting in a release time of 23.48 hours at a rate of 1.07 cfs, meeting the standard of releasing this volume at a time between not greater than 72 hours and at a rate not greater than 1.48 cfs.

Sincerely, Sydney A. Kanan, PE Project Manager



AEW Job No. 1688-0001

SCHEDULE

ANNUALLY

**EVERY 2 YEARS AS NEEDED** 

**ANNUALLY** 

**ANNUALLY** 

**ANNUALLY** 

AS NEEDED

**EVERY 3-5 YEARS AS NEEDED** 

**SEMI-ANNUALLY** 

0 TO 2 TIMES PER YEAR

ANNUALLY AND AT TURNOVER

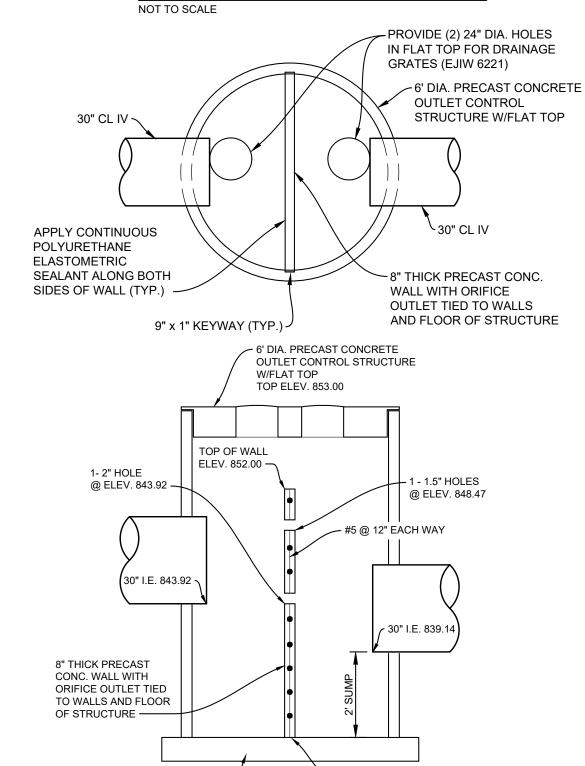
AS NEEDED

**ANNUALLY** 

ANNUALLY

July 24, 2025

#### TYPICAL REDI-ROCK WALL DETAIL



**OUTLET CONTROL STRUCTURE DETAIL** 

~ SEAL BETWEEN PRECAST WALL

10'x10'x1' THICK CONC.

ANDERSON, ECKSTEIN AND WESTRICK, INC.

Phone 586 726 1234

Fax 586 726 8780

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Shelby Township

Michigan 48315 www.aewinc.com

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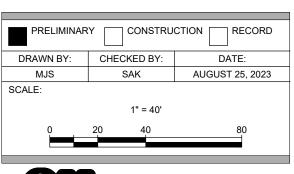
ST. PAUL LUTHERAN SCHOOL SITE **IMPROVEMENTS** 

SUBMITTALS/REVISIONS

PROJECT NAME

**STORMWATER MANAGEMENT PLAN AND DETAILS** 

ST. PAUL LUTHERAN CHURCH





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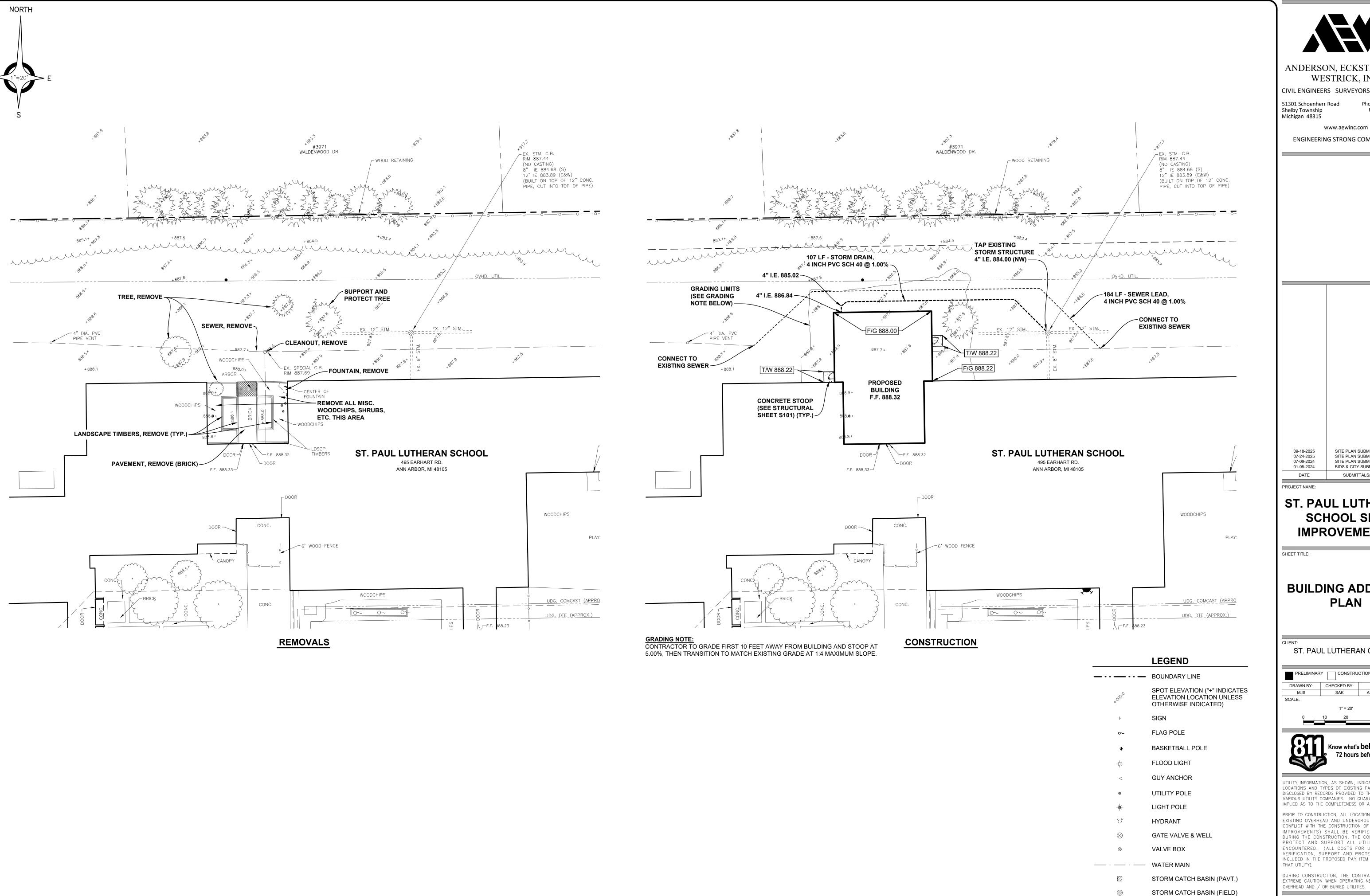
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OVERHEAD AND / OR BURIED UTILITIES.

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> Phone 586 726 1234 Fax 586 726 8780

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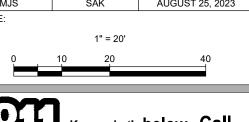
ST. PAUL LUTHERAN SCHOOL SITE **IMPROVEMENTS** 

SHEET TITLE:

**BUILDING ADDITION PLAN** 

ST. PAUL LUTHERAN CHURCH DRAWN BY: CHECKED BY: DA1E.

SAK AUGUST 25, 2023





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STORM MANHOLE

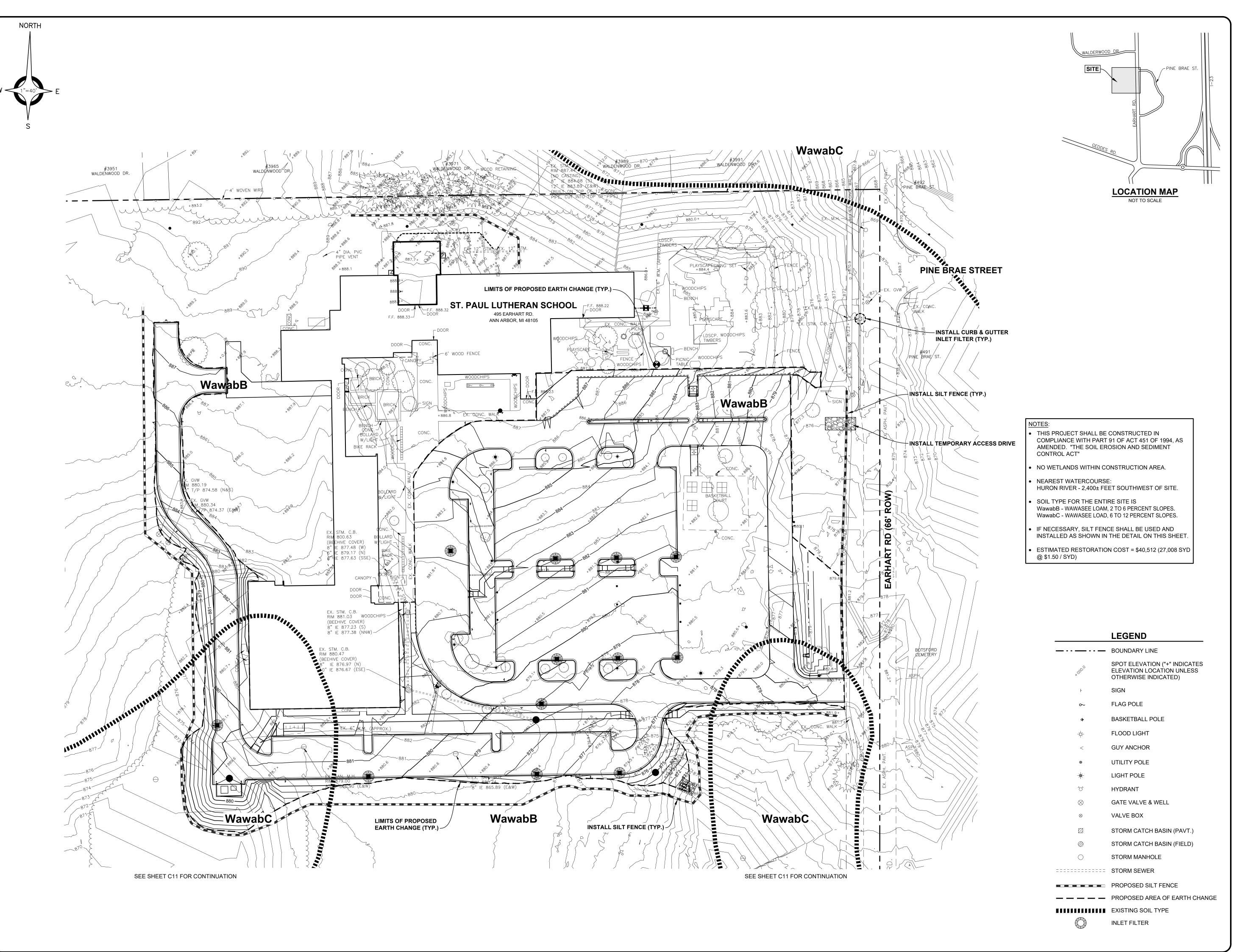
PROPOSED SIDEWALK

=========== STORM SEWER

— — — PROPOSED STORM DRAIN

————— OVHD. UTIL.

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ST. PAUL LUTHERAN SCHOOL SITE **IMPROVEMENTS** 

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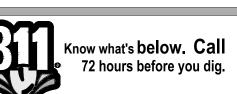
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**SOIL EROSION AND SEDIMENTATION CONTROL PLAN** 

ST. PAUL LUTHERAN CHURCH

PRELIMINARY CONSTRUCTION RECORD AUGUST 25, 2023



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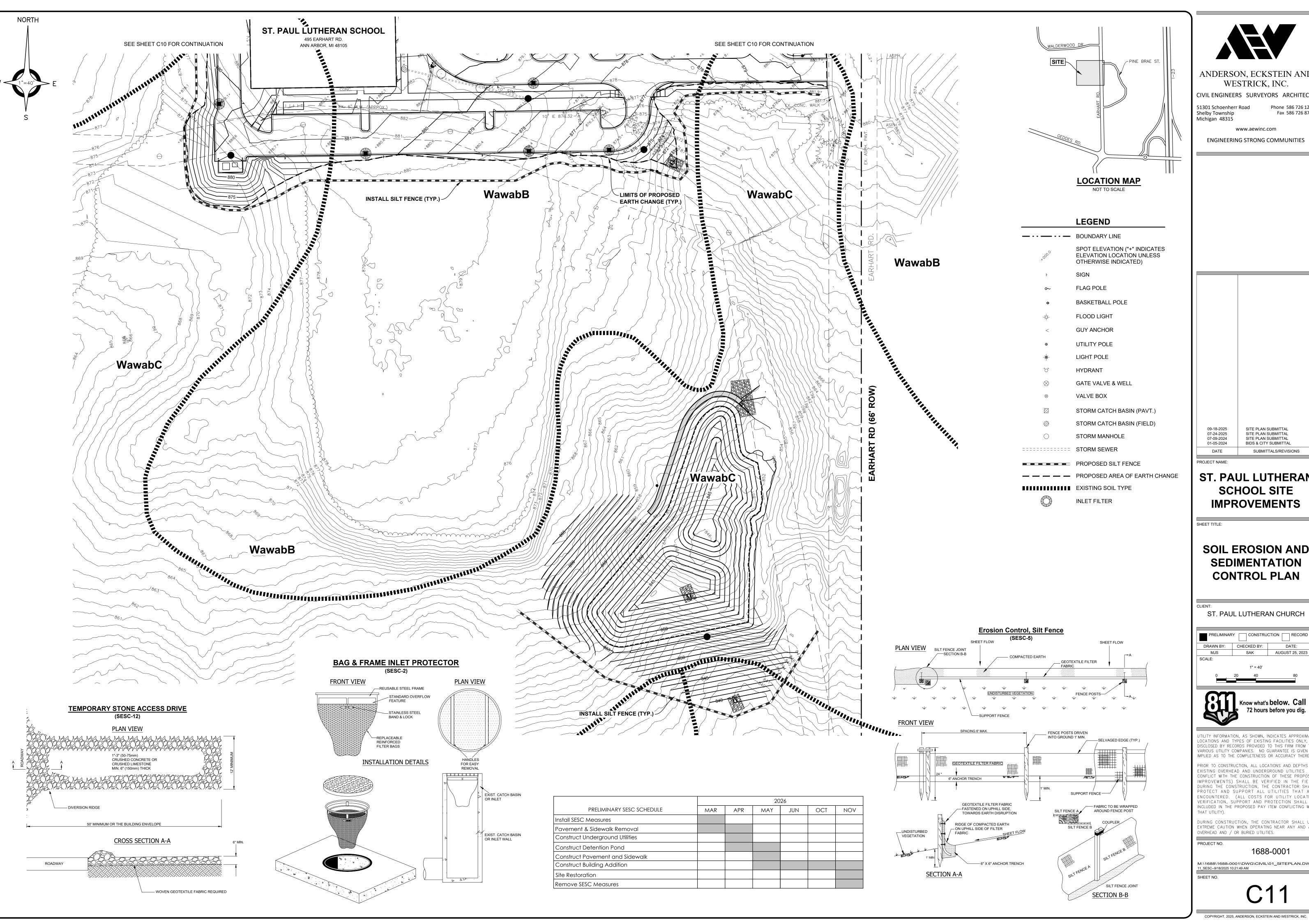
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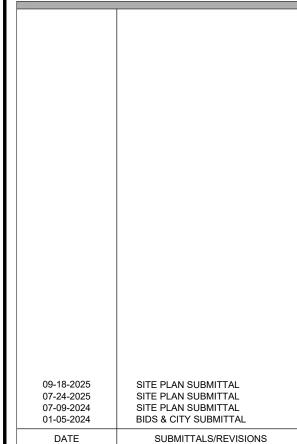
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#### ST. PAUL LUTHERAN SCHOOL SITE **IMPROVEMENTS**

#### **SOIL EROSION AND SEDIMENTATION CONTROL PLAN**

ST. PAUL LUTHERAN CHURCH

PRELIMINARY CONSTRUCTION RECORD											
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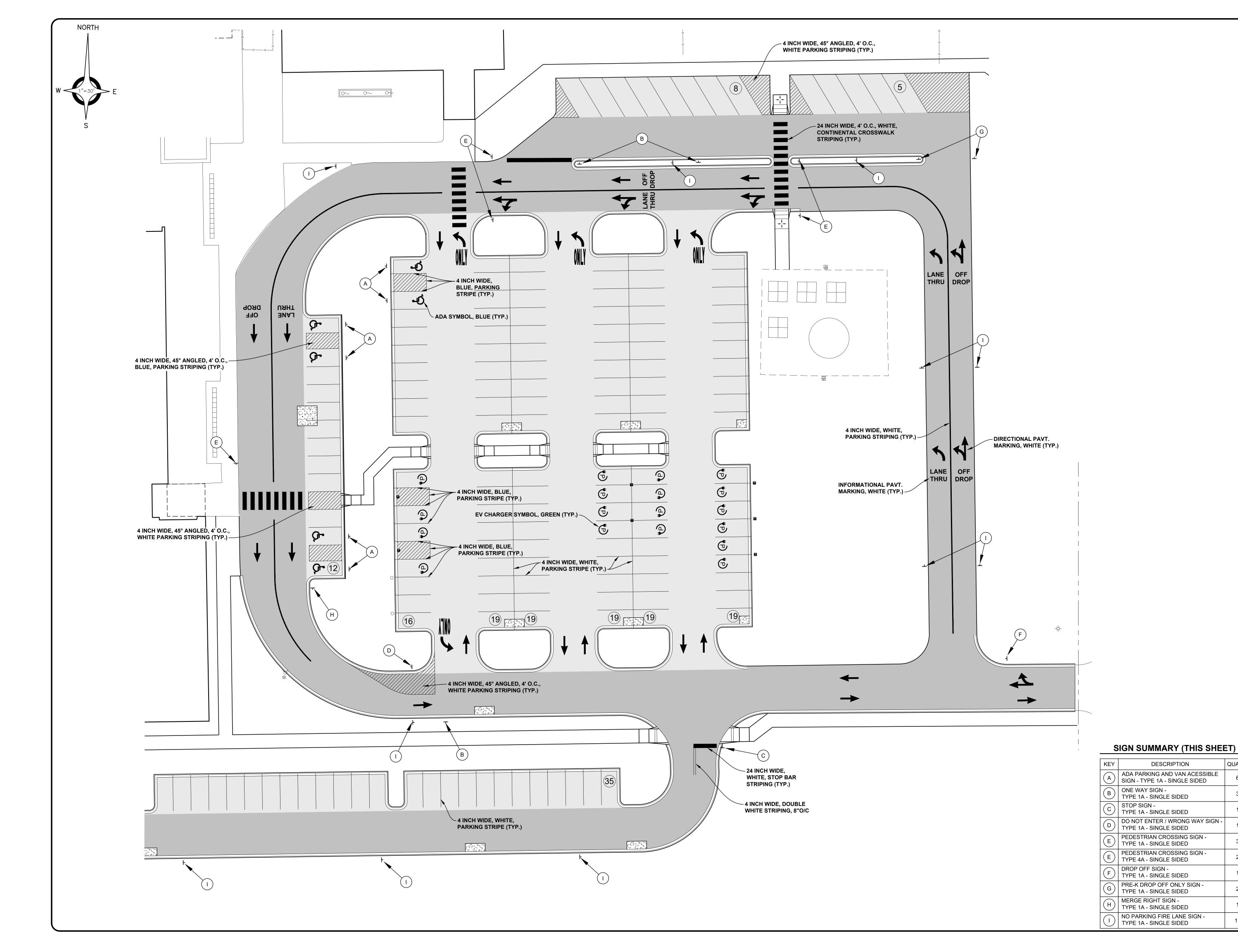
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#### ST. PAUL LUTHERAN SCHOOL SITE **IMPROVEMENTS**

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BIDS & CITY SUBMITTAL

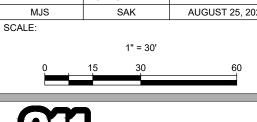
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#### SIGNAGE AND **PAVEMENT MARKING PLAN**

ST. PAUL LUTHERAN CHURCH

DRAWN BY: CHECKED BY: DATE:

MJS SAK AUGUST 25, 2023





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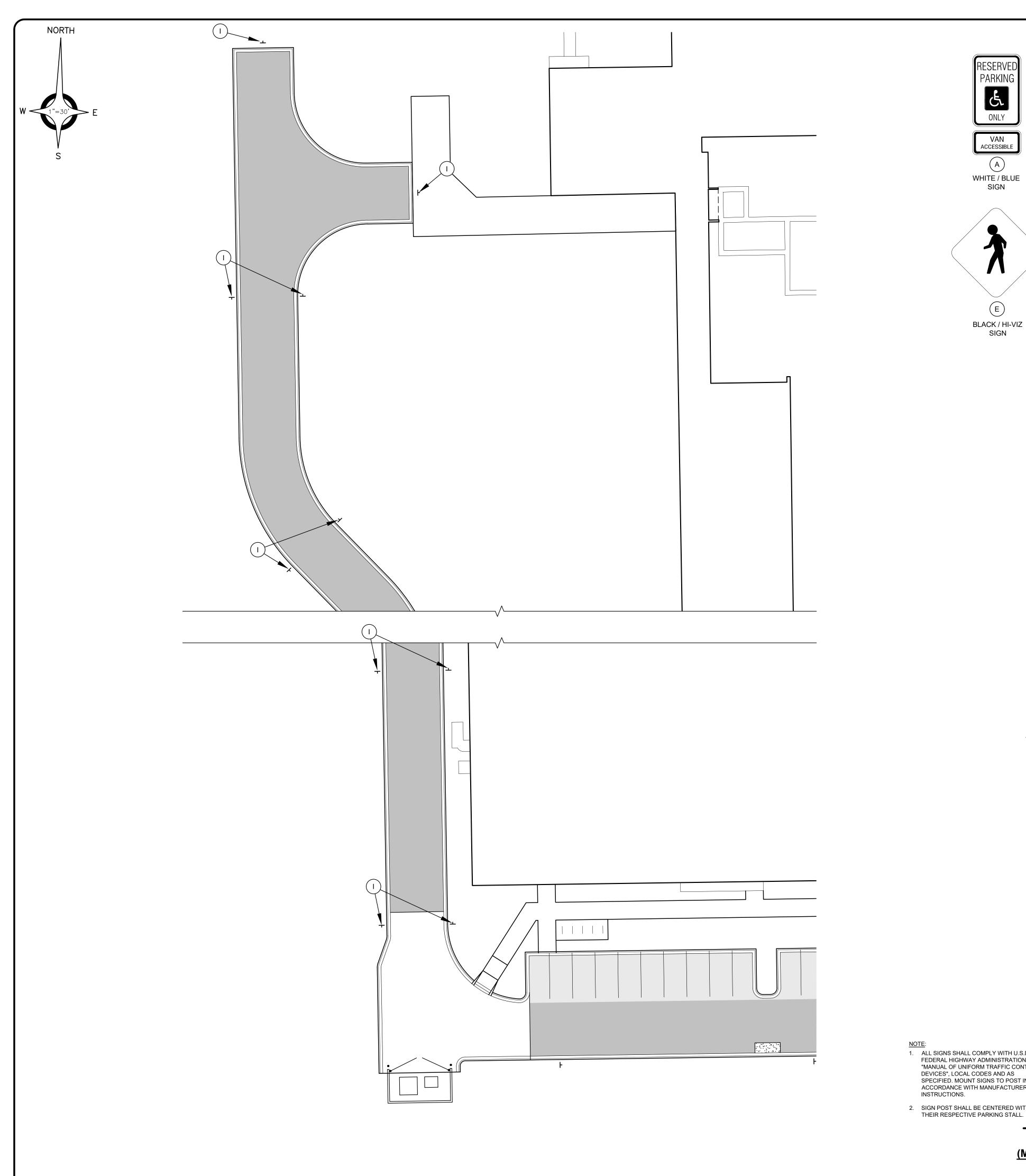
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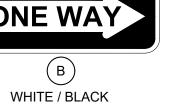




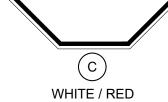
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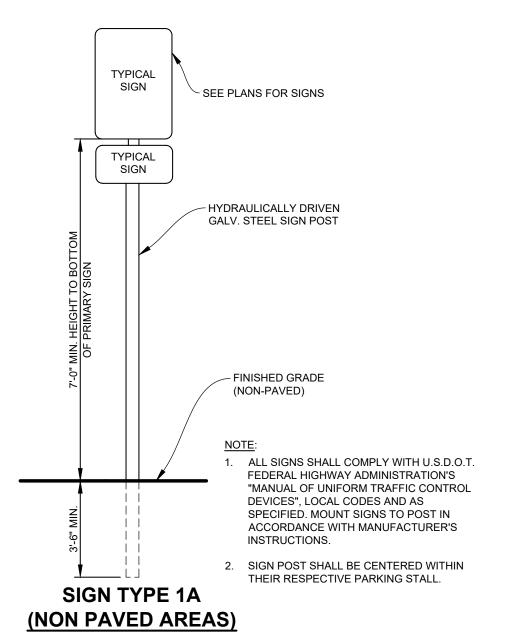
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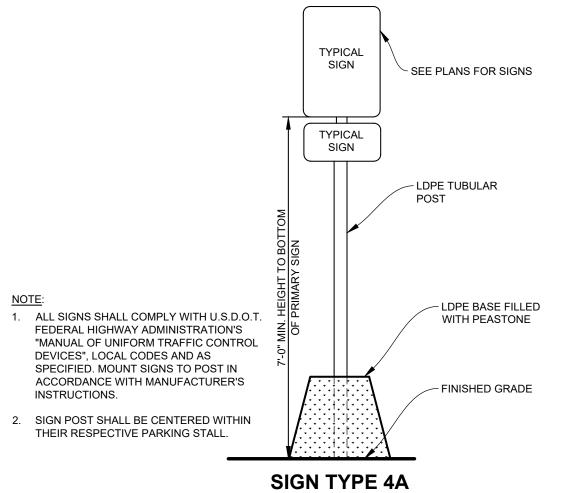
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ALL VEHICULAR SIGNS SHALL BE RETROREFLECTIVE





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### SIGN SUMMARY (THIS SHEET)

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A	ADA PARKING AND VAN ACESSIBLE SIGN - TYPE 1A - SINGLE SIDED	0
В	ONE WAY SIGN - TYPE 1A - SINGLE SIDED	0
0	STOP SIGN - TYPE 1A - SINGLE SIDED	0
О	DO NOT ENTER / WRONG WAY SIGN - TYPE 1A - SINGLE SIDED	0
E	PEDESTRIAN CROSSING SIGN - TYPE 1A - SINGLE SIDED	0
E	PEDESTRIAN CROSSING SIGN - TYPE 4A - SINGLE SIDED	0
F	DROP OFF SIGN - TYPE 1A - SINGLE SIDED	0
G	PRE-K DROP OFF ONLY SIGN - TYPE 1A - SINGLE SIDED	0
H	MERGE RIGHT SIGN - TYPE 1A - SINGLE SIDED	0
	NO PARKING FIRE LANE SIGN - TYPE 1A - SINGLE SIDED	10



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#### ST. PAUL LUTHERAN SCHOOL SITE **IMPROVEMENTS**

SHEET TITLE:

PROJECT NAME:

#### SIGNAGE AND **PAVEMENT MARKING PLAN**

ST. PAUL LUTHERAN CHURCH

PRELIMINARY CONSTRUCTION RECORD												
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MJS	SAK	AUGUST 25, 2023										
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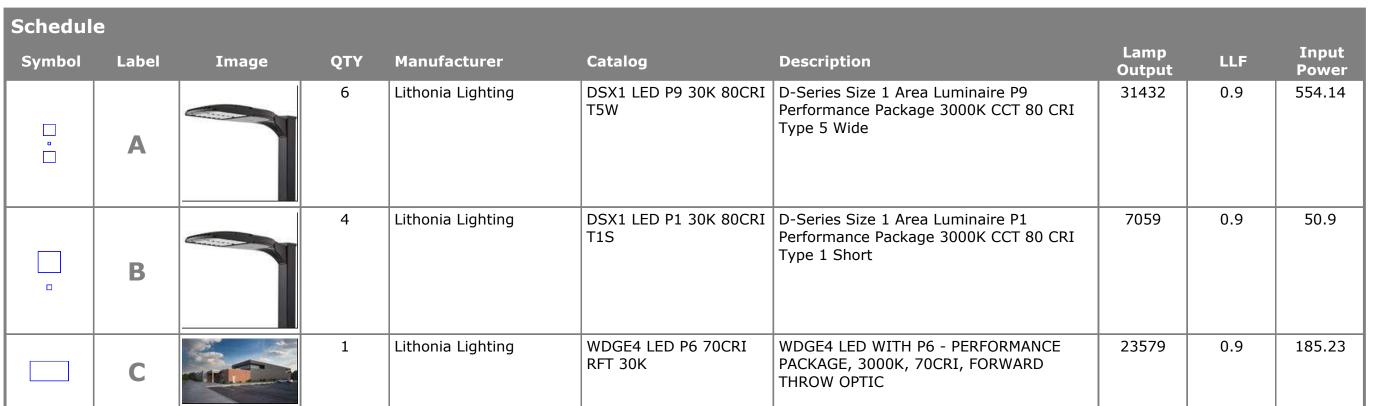
WBA Wall bracket 10

service life of over 100,000 hours.

1	50K 5000K	80CRI				MA	Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)
Control options				Other option	ons	Finish /rep	insti
ambient s sensor end PIR High/low, height, am PER NEMA twi separate)	open 2 enabled with bi-level motion / ensor, 8-40 mounting height, ambient billed at 2fc. 11.48.71 motion/ambient sensor, 8-40 mounting bient sensor enabled at 2fc. 11.48.71 st-lock receptacle only (controls ordered separate) 14.11 explain from the controls ordered separate) 14.11	PER7 FAO BL30 BL50 DMG	Seven-pin receptade only (controls ordered separate) <sup>14,19</sup> Field adjustable output <sup>15,21</sup> Bi-level switched dimming, 30% <sup>16,11</sup> Bi-level switched dimming, 50% <sup>16,11</sup> 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) <sup>17</sup> Dual switching <sup>16,16,11</sup>	Shipped is SP020KV HS L90 R90 CCE HA BAA SF DF Shipped s EGSR	20KV surge protection Houseside shield (black finish standard) <sup>23</sup> Left sotated optics <sup>3</sup> Right rotated optics <sup>3</sup> Coastal Construction <sup>23</sup> 50°C ambient operation <sup>24</sup> Buy America(n) Act Compliant Single fuse (120, 277, 347V) <sup>26</sup> Double fuse (208, 240, 480V) <sup>25</sup>	DDBXD DBLXD DNAXD DWHXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark Bronze Black Natural Aluminum White Fextured dark bronze Textured black Textured natural aluminum Textured white

D-Series Size 1 LED Area Luminaire





Rotated optics

40K 4000K

WDGE4 LED

P1 P4 30K 3000K 70CRI R2 Type Z
P2 P5 40K 4000K 80CRI R3 Type 3
S0K 5000K R4 Type 4

circuits with external dusk to dawn switching.

LITHONIA COMMERCIAL OUTDOOR One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com

Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched

Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for

PIRH1FC3V Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed

NLTAIR2 PIRH nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30'mounting heights.

Dual switching (comes with 2 drivers and PIR

DMG<sup>3</sup> 0-10V dimming wires pulled outside

ordered separately)

BCE Bottom conduit entry for back box

BAA Buy America(n) Act Compliant

WDGE4P88W DDBXD U WDGE4 surface-mounted back box (specify finish)

SPD10KV 10kV Surge pack

Specifications

Weight: (without options) 30.5 lbs

Depth (D1): Depth (D2):

Architectural Wall Sconce

BAA

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in

a widely accepted shape that blends with any architecture. The clean rectilinear design comes

in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless

25,000 lumens through a precision refractive lens

with wide distribution, perfect for augmenting the

controls, the WDGE family provides additional

WDGE4 has been designed to deliver up to

energy savings and code compliance.

lighting from pole mounted luminaires.

EXAMPLE: WDGE4 LED P3 40K 70CRI R3 MVOLT SRM DDBXD

347 SRM Surface mounting bracket AWS 3/8/Inct Arctimes upon the Surface -mounted back box (top, left, order)

Washer bracket (dry/damp locations only)\* Surface -mounted back box (top, left, right conduit entry). Use when these is no junction box available.

1 347V and 480V not available with DS.

DDBTXD Textured dark bronze

DNATXD Textured natural aluminum

DBLBXD Textured black

DWHGXD Textured white DSSTXD Textured sandstone

PE not available in 460V and with sensors/controls.

DS and DMG not available with sensors/controls,

Not qualified for DLC. Not available with emergency battery backup.

Statistics	5					
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking	Ж	2.6 fc	5.1 fc	0.0 fc	N/A	N/A
Overall	+	1.0 fc	26.0 fc	0.0 fc	N/A	N/A

+0.0 +0.0 +0.0 +0.0 +0.1 +0.1 +0.2 +0.3 +0.8 <sup>+</sup>0.3 <sup>+</sup>0.3 <sup>+</sup>0.3 <sup>+</sup>0.3 <sup>+</sup>0.4 <sup>+</sup>0.4 <sup>+</sup>0.4  $^{+}1.0$   $^{+}0.9$   $^{+}0.8$   $^{+}0.7$   $^{+}0.6$   $^{+}0.5$   $^{+}0.5$   $^{+}0.5$   $^{+}0.5$   $^{+}0.4$   $^{+}0.3$   $^{+}0.2$   $^{+}0.1$   $^{+}0.1$   $^{+}0.0$   $^{+}0.0$   $^{+}0.0$   $^{+}0.0$ +0.6 +0.5 +0.6 +0.6 +0.7 +0.8 +0.9 <sup>+</sup>1.2 <sup>+</sup>0.6 <sup>+</sup>0.3 <sup>+</sup>0.1 +<del>2.1</del> +<del>1.3</del> +<del>0.8</del> +<del>0.3</del> +<del>0</del>.2 <sup>+</sup>1.9 <sup>+</sup>1.3 <sup>+</sup>0.7 <sup>+</sup>0.4 <sup>+</sup>0.2 <sup>+</sup>0. <sup>+</sup>0.0 <sup>+</sup>0.0 <sup>+</sup>0.0 **†**0.0 **†**0.1 **†**1.5 **†**5.5 **†**7.2 **†**4.5 **†**0.9 **†**0.2 **†**0.3 **†**0.6 **†**0.9 **■ †**1.3 **■†**1.4 **■**1.5 **†**1.6 **†**1.8 **†**1.9 **†**2.0 **†**2.2 **†**2.4 **†**2.3 **†**2.2 **†**2.0 **†**2.0 **†**2.9 \*0.0 \*0.1 \*0.2 \*0.4 \*0.3 \*0.4 \*0.2 \*0.2 \*0.2 \*0.3 \*0.4 \*0.5 \*0.5 \*0.5 \*0.5 \*0.5 \*0.6 \*0.6 \*0.7 \*0.9 \*1.0 \*1.1 \*1.0 \*1.0 \*0.9 \*0.8 \*0.7 \*0.6 \*0.6 \*0.6 \*0.6 \*0.6 \*0.5 \*0.5 \*0.3 \*0.2 \*0.1

#### **General Note**

- 1. SEE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHT.
- 2. SEE LUMINAIRE SCHEDULE FOR LIGHT LOSS FACTOR. 3. CALCULATIONS ARE SHOWN IN FOOTCANDLES AT: 3' - 0"

THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS. MOUNTING HEIGHTS INDICATED ARE FROM GRADE AND/OR FLOOR UP.

THESE LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM SUITABILITY AND SAFETY. THE ENGINEER AND/OR ARCHITECT IS RESPONSIBLE TO REVIEW FOR MICHIGAN ENERGY CODE AND LIGHTING QUALITY COMPLIANCE.

UNLESS EXEMPT, PROJECT MUST COMPLY WITH LIGHTING CONTROLS REQUIRMENTS DEFINED IN ASHRAE 90.1 2013. FOR SPECIFIC INFORMATION CONTACT GBA CONTROLS GROUP AT ASG@GASSERBUSH.COM OR 734-266-6705.

ALL PROPOSED OUTDOOR LIGHTING SHALL COMPLY WITH THE ANN ARBOR UDC SECTION 5.525

PARKING LOT LIGHTING SHALL BE ON AN AUTOMATIC TIME SUCH THAT THE LIGHTING DOES NOT REMAIN ON THROUGHOUT THE NIGHT

#### **Alternates Note**

**Drawing Note** 

VERIFIED IN FIELD BY OTHERS.

 $\begin{picture}(100,0) \put(0.0) \put(0$ 

Plan View

Scale - 1" = 40ft

THE USE OF FIXTURE ALTERNATES MUST BE RESUBMITTED TO THE CITY FOR APPROVAL.

#### Ordering Note

FOR INQUIRIES CONTACT GASSER BUSH AT QUOTES@GASSERBUSH.COM OR 734-266-

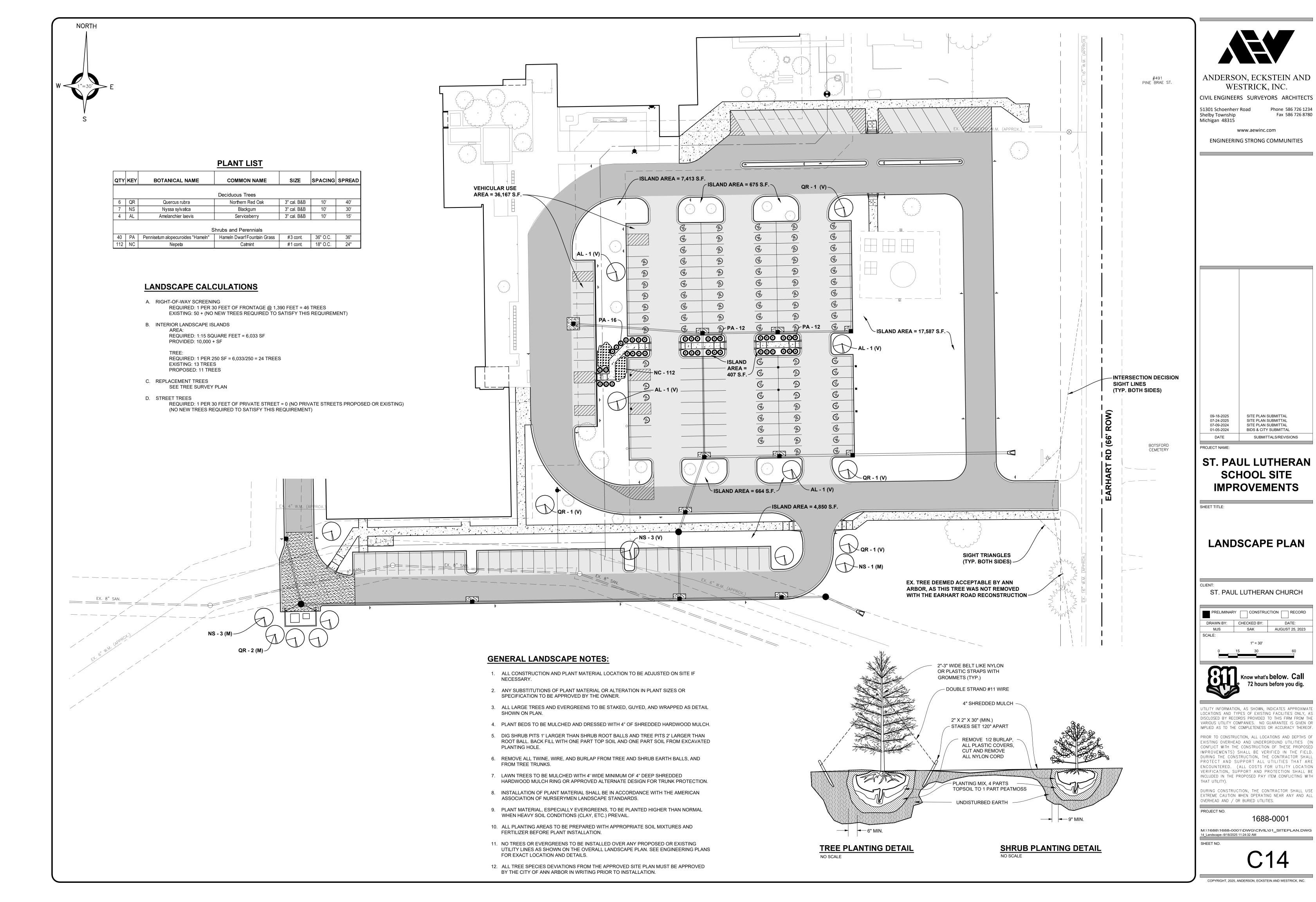
#### **Mounting Height Note**

THIS DRAWING WAS GENERATED FROM AN ELECTRONIC MOUNTING HEIGHT IS MEASURED FROM GRADE TO IMAGE FOR ESTIMATION PURPOSE ONLY. LAYOUT TO BE FACE OF FIXTURE. POLE HEIGHT SHOULD BE CALCULATED AS THE MOUNTING HEIGHT LESS BASE HEIGHT.

Designer Date 10/10/2023 Scale Not to Scale

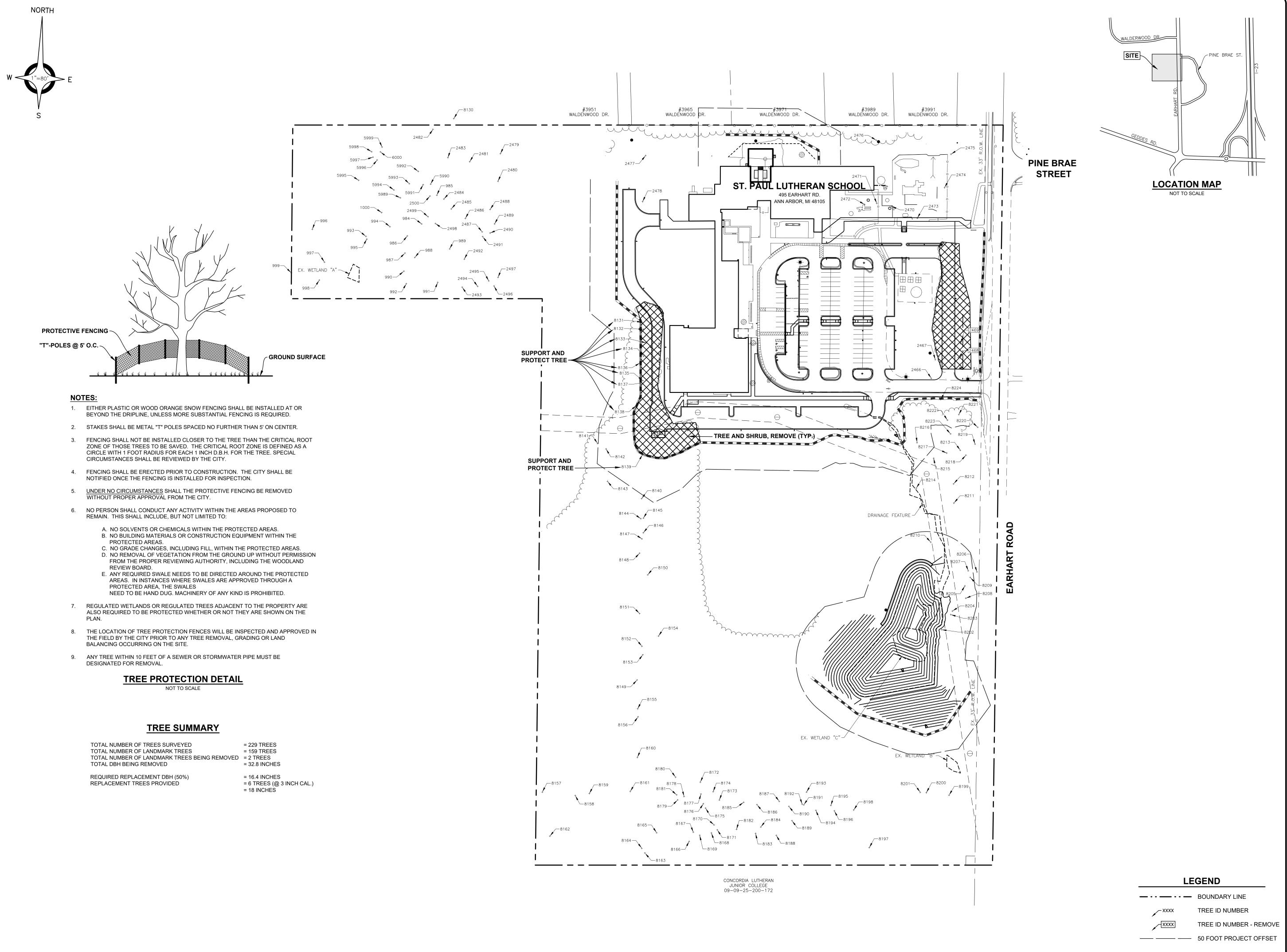
Drawing No. #23-20991

ST. PAUL ANN ARBO PHOTOMETRIC PLA GASSER BUSH ASSOCI WWW.GASSERBUSH.C



Phone 586 726 1234 Fax 586 726 8780

AUGUST 25, 2023



CIVIL ENGINEERS SURVEYORS ARCHITECTS Phone 586 726 1234

Shelby Township Michigan 48315

www.aewinc.com

ENGINEERING STRONG COMMUNITIES

Fax 586 726 8780

SITE PLAN SUBMITTAL SITE PLAN SUBMITTAL 09-18-2025 07-24-2025 SITE PLAN SUBMITTAL 07-09-2024 BIDS & CITY SUBMITTAL 01-05-2024 SUBMITTALS/REVISIONS

ST. PAUL LUTHERAN SCHOOL SITE

SHEET TITLE:

PROJECT NAME:

TREE SURVEY

ST. PAUL LUTHERAN CHURCH

OCTOBER 2023



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY. AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE

VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF

EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF THESE PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL UTILITIES THAT ARE ENCOUNTERED. (ALL COSTS FOR UTILITY LOCATION VERIFICATION, SUPPORT AND PROTECTION SHALL BE INCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH

DURING CONSTRUCTION, THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR ANY AND ALL OVERHEAD AND / OR BURIED UTILITIES.

PROJECT NO.

SHEET NO.

1688-0001

M:\1688\1688-0001\DWG\CIVIL\TREE SURVEY\01\_TREE SURVEY.DWG 5\_Tree Survey--9/18/2025 11:23:58 AM

	DE140\/E	(T)(D)
 IKEE,	REMOVE	(TYP.)

				DRH1 DE	RH2 DR	RH3 DRI	<b>4</b> Λ												DRH1	DRH2 I	NRH3 NRH	4							
Tree Tag#	Common Name	Scientific Name		<u>DBH1</u> <u>DE</u> inches) (inc		BH3 <u>DBI</u> ches) (inch		on <u>Bat Tree</u>	<u>Woodland</u>	<u>Landmark</u>	Assessment	<u>Justification</u>	Inspect	<u>Notes</u>	<u>Tree</u>	Tag # Common Na	me Scientific Name	# DBHs			<u>DBH3</u> <u>DBH</u> nches) (inche		Bat Tree	<u>Woodland</u>	<u>Landmark</u>	<u>Assessment</u>	<u>Justification</u>	<u>Inspect</u>	<u>Notes</u>
984 985	White Pine White Pine	Pinus strobus Pinus strobus	1 1	18.1 C	).0 0 ) 0 0	0.0	0 Good 0 Good	No No	Yes Yes	L I	NULL NULL	NA NA	NA NA		81	146 Wild Black Ch 147 Wild Black Ch	•	1 1	31.0 17 3	0.0 0.0	0.0 0.0	Good Good	No No	No No	L I	NULL NULL	NA NA	Stem Stem	
986	White Pine	Pinus strobus	1	22.5 C	).0 0	0.0 0.0		No	Yes	L	NULL	NA	NA		\	148 Shagbark Hic		2	20.1	19.1	0.0 0.0	Good	No	No	L	NULL	NA	Stem	
987 988	White Pine White Pine	Pinus strobus Pinus strobus	1 1	26.2 C	).0	).0 0.0 ).0 0.0	0 Good 0 Fair	No No	Yes Yes	L L	NULL NULL	NA NA	NA NA	Overgrown with vines.	1	149 Shagbark Hic 150 Wild Black Ch	•	1 1	22.0 25.8	0.0 0.0	0.0 0.0 0.0 0.0	Good Good	No No	No No	L L	NULL NULL	NA NA	NA Stem	
989	Apple	Malus pumila	1	12.1	0.0	0.0 0.0	0 Fair	No	Yes	L	NULL	NA	NA	Thin canopy.	1	151 Wild Black Ch	erry <i>Prunus serotina</i>	1	37.2	0.0	0.0 0.0	Poor	Yes	No	L	Structure	Deadwood (DW)		Trunk rot. Significant deadwood. Cavities.
990 991	White Pine White Pine	Pinus strobus Pinus strobus	1 1	21.3 C	).0	).0	0 Good 0 Good		Yes Yes	L L	NULL NULL	NA NA	NA NA		81	152		1 1	29.0 29.2	0.0 0.0	0.0 0.0 0.0 0.0	Good Good	No No	No No	L L	NULL NULL	NA NA	NA NA	
992	White Pine	Pinus strobus	1	19.2	).0 0	0.0 0.0	0 Good		Yes	L	NULL	NA	NA		1	154 Pin Oak	Quercus palustris	1	21.0	0.0	0.0 0.0	Good	No	No	L	NULL	NA	NA	
993 994	White Pine Sugar Maple	Pinus strobus Acer saccharum	1 1	22.0 C	).0	).0	0 Good 0 Good	No No	No Yes	L L	NULL NULL	NA NA	NA NA		81	155 Wild Black Ch 156 Wild Black Ch	•	1 1	23.5 34.5	0.0 0.0	0.0 0.0 0.0 0.0	Good Good	No No	No No	L L	NULL NULL	NA NA	NA NA	
995	White Pine	Pinus strobus	1	21.7	0.0	0.0 0.0	0 Good		No	L	NULL	NA	NA		81	157 Wild Black Ch	erry Prunus serotina	4	18.8	13.0	9.7 8.8	Good	No	Yes	L	NULL	NA	NA	
996 997	Black Walnut Black Walnut	Juglans nigra Juglans nigra	1 1	23.0 C	).0	).0	0 Good 0 Good	No No	No No	L L	NULL NULL	NA NA	NA NA			158 Wild Black Ch 159 Shagbark Hic	•	1 1	27.2 29.0	0.0 0.0	0.0 0.0 0.0 0.0	Fair Good	No No	Yes Yes	L L	Structure NULL	Deadwood (DW) NA	Stem NA	Trunk rot.
998	Bur Oak	Quercus macrocarpa	1	17.6	0.0	0.0	0 Good		No	L	NULL	NA	NA		81	160 Pignut Hicko	ry Carya glabra	1	33.8	0.0	0.0 0.0	Poor	No	Yes	L	Structure	Deadwood (DW)	Stem	Trunk snapped. Few small living limbs.
999 1000	White Oak White Pine	Quercus alba Pinus strobus	2	24.5 C	8.2 0	).0 0.0 ).0 0.0	0 Good 0 Good	No No	No Yes	L L	NULL NULL	NA NA	NA NA		81	161 Wild Black Ch 162 Black Waln		1 1	31.5 20.8	0.0	0.0 0.0 0.0 0.0	Good Good	No No	Yes No	L L	NULL NULL	NA NA	NA NA	
2466	Pin Oak	Quercus palustris	1	23.5	0.0	0.0			No	L	NULL	NA	NA	Chlorosis.	81		Pinus strobus	1	23.2	0.0	0.0 0.0	Good	No	No	L	NULL	NA	NA	Old tag 1333.
2467 2 <i>4</i> 68	Pin Oak  Sweet Cherry	Quercus palustris / Prugus avium	1/1/			0.0 0.0		No No	Yes	L 	NULL NULL	NA NA	NA NA	Chlorosis.	zí .	164 White Pin 165 Box-elde	Pinus strobus Acer negundo	1	24.6 21.5	0.0	0.0 0.0	Good Fair	No No	Yes	L	NULL Structure	NA Deadwood (DW)	NA Stem	Old tag 1332. Significant deadwood.
2469 /	Black Walnut	Juglans njgra	1 /	18.3	).0 9 ).0 0	<u>x6</u> <u>x6.</u> 0	Good	/	yes No	<u>/ L /</u>	NULL	/ NA	NA /		-	166 Box-elde	Acer negundo	2	18.4	13.5	0.0 0.0	Good	No No	Yes	L	NULL	NA NA	NA NA	
2470 2471	Silver Maple Silver Maple	Acer saccharinum Acer saccharinum	1	17.6 C	).0 0	0.0 0.0 0.0 0.0	0 Good 0 Good	No No	No	L	NULL NULL	NA NA	NA NA			167 White Pin 168 White Pin		1	24.5	0.0	0.0 0.0	Good Good	No	Yes	L	NULL NULL	NA NA	NA	
2472	Copper Beech	Fagus sylvatica	2	19.7	0.6 0	0.0	O Good		No No	L	NULL	NA NA	NA NA			169 White Pin		1	18.7 28.2	0.0	0.0 0.0 0.0 0.0	Good	No No	Yes	L	NULL	NA NA	NA NA	
2473 2474	Red Pine Silver Maple	Pinus resinosa Acer saccharinum	1	20.9 C	).0 0	0.0 0.0	0 Good 0 Good	No No	No	L	NULL NULL	NA NA	NA NA			170 White Pin 171 White Pin		1	28.2 18.8	0.0	0.0 0.0 0.0 0.0	Good Good	No	Yes	L	NULL NULL	NA NA	NA NA	
2475 2476	Norway Maple Black Walnut	Acer platanoides Juglans nigra	1	22.1 C 21.3 C	).0 0 ).0 0	0.0 0.0 0.0 0.0	0 Good 0 Good	No No	No No	L	NULL NULL	NA NA	NA NA			172 Norway Spro 173 White Pin		1	20.2 26.1	0.0 0.0	0.0 0.0 0.0 0.0	Good	No No	Yes Yes	L	NULL NULL	NA NA	NA NA	
2477	Shagbark Hickory		1	25.0 C	).0 0	0.0 0.0	0 Good		No	L	NULL	NA	NA		81			1	19.7	0.0	0.0 0.0	Good Good	No	Yes	L	NULL	NA	NA	
2478 2479	Shagbark Hickory White Pine	Carya ovata Pinus strobus	1	22.5 C	).0 0 ).0 0	0.0 0.0	0 Good 0 Good		No Yes	L I	NULL NULL	NA NA	NA NA			175 White Pin 176 White Pin		1 1	18.0 22.5	0.0	0.0 0.0 0.0 0.0	Good Good	No No	Yes Yes	L I	NULL NULL	NA NA	NA NA	
2480	White Pine	Pinus strobus	1		).0 0	0.0 0.0	_		Yes	L	NULL	NA	NA	Chlorosis.		177 White Pin		1	18.2		0.0 0.0	Good	No	Yes	L	NULL	NA	NA	
2481 2482	White Pine White Pine	Pinus strobus Pinus strobus	1	21.2 C	).0 0 ).0 0	0.0 0.0	0 Good 0 Fair	No No	Yes Yes	L I	NULL NULL	NA NA	NA NA	Chlorosis. Chlorosis. Thin canopy.		178 White Pin 179 White Pin		1 1	22.2 18.2		0.0 0.0 0.0 0.0	Good Good	No No	Yes Yes	L I	NULL NULL	NA NA	NA NA	
2483	White Pine	Pinus strobus	1	19.2	).0 0	0.0 0.0	0 Good		Yes	L	NULL	NA	NA	Cinorosis. Timi canopy.		180 White Pin		1	24.2	0.0	0.0 0.0	Good	No	Yes	L	NULL	NA	NA	
2484 2485	White Pine White Pine	Pinus strobus Pinus strobus	1 1	18.0 C	).0 0 ).0 0	).0 0.0 ).0 0.0	0 Good 0 Good		Yes Yes	L I	NULL NULL	NA NA	NA NA			181 White Pin 182 White Pin		1 1	23.6 25.2		0.0 0.0 0.0 0.0	Good Good	No No	Yes Yes	L I	NULL NULL	NA NA	NA NA	
2486	White Pine	Pinus strobus	1	18.1 C	0.0	0.0 0.0			Yes	L	NULL	NA	NA		81	183 White Pin	e Pinus strobus	1	20.2	0.0	0.0 0.0	Good	No	Yes	L	NULL	NA	NA	
2487 2488	White Pine White Pine	Pinus strobus Pinus strobus	1 1	21.5 C	).0	).0	0 Good 0 Good		Yes Yes	L L	NULL NULL	NA NA	NA NA			184 White Pin 185 White Pin		2 1	19.8 21.0		0.0 0.0 0.0 0.0	Good Good	No No	Yes Yes	L L	NULL NULL	NA NA	NA NA	
2489	White Pine	Pinus strobus	1	22.3 C	).0 0	0.0 0.0	0 Good		Yes	L	NULL	NA	NA		81	186 White Pin	e Pinus strobus	1	21.9	0.0	0.0 0.0	Good	No	Yes	L	NULL	NA	NA	
2490 2491	White Pine White Pine	Pinus strobus Pinus strobus	1 1	18.8 C	).0	).0	0 Good 0 Good		Yes Yes	L L	NULL NULL	NA NA	NA NA			187 White Pin 188 White Pin		1 1	25.0 26.3		0.0 0.0 0.0 0.0	Good Good	No No	Yes Yes	L L	NULL NULL	NA NA	NA NA	
2492	Box-elder	Acer negundo	3	16.5	0.5 9	9.7 0.0	0 Fair	No	Yes	L	NULL	NA	NA	Overgrown with vines.	81	189 White Pin	e Pinus strobus	1	25.8	0.0	0.0 0.0	Good	No	Yes	L	NULL	NA	NA	
2493 2494	White Pine White Pine	Pinus strobus Pinus strobus	1 1	23.6 C	).0	).0	0 Good 0 Good		Yes Yes	L L	NULL NULL	NA NA	NA NA			190		1 1	26.1 18.4	0.0 0.0	0.0 0.0 0.0 0.0	Good Good	No No	Yes Yes	L L	NULL NULL	NA NA	NA NA	
2495	White Pine	Pinus strobus	1	18.4	0.0	0.0	0 Good		Yes	L	NULL	NA	NA		81	192 White Pin	e Pinus strobus	1	20.0	0.0	0.0 0.0	Fair	No	Yes	L	NULL	NA	NA	Trunk split. Trunk rot.
2496 2497	White Pine White Pine	Pinus strobus Pinus strobus	2			).0			Yes Yes	L	NULL NULL	NA NA	NA NA			193		1	22.3 22.2		0.0 0.0 0.0 0.0	Good Good	No No	yes Yes	L	NULL NULL	NA NA	NA NA	
2498	White Pine	Pinus strobus	1	20.7	0.0	0.0	O Good		Yes	L	NULL	NA NA	NA NA			195 White Pin		1	18.7		0.0 0.0	Good	No	Yes	L	NULL	NA NA	NA NA	
2 <del>4</del> 99 2500	White Pine White Pine	Pinus strobus Pinus strobus	1	18.5 C	).0 0	0.0 0.0	0 Good 0 Good	No No	Yes	L	NULL NULL	NA NA	NA NA			196 White Pin 197 White Pin		1	26.5 28.0		0.0 0.0 0.0 0.0	Good Good	No	No	L	NULL NULL	NA NA	NA NA	
5989 5990	White Pine White Pine	Pinus strobus Pinus strobus	1	18.2 C	).0 0	0.0 0.0 0.0 0.0	O Good		Yes	L	NULL NULL	NA NA	NA NA			198 White Pin 199 Cottonwoo		1	29.5 35.2		0.0 0.0 0.0 0.0	Good	No No	Yes	L	NULL	NA NA	NA NA	
5990 5991	White Pine	Pinus strobus	1		).0 0	0.0 0.0			Yes	L	NULL	NA	NA			199 Cottonwoo 200 Norway Spri		1	18.3		0.0 0.0	Good Good	No	Yes Yes	L	NULL NULL	NA	NA	
5992 5993	White Pine White Pine	Pinus strobus Pinus strobus		20.2 C	).0 0 ).0 ∩	0.0	0 Good 0 Good		Yes Yes	L I	NULL NULL	NA NA	NA NA			201 Norway Spro 202 Pin Oak	ice <i>Picea abies</i> Quercus palustri	1	21.8 16.6	0.0	0.0 0.0 0.0 0.0	Good Good	No No	Yes Yes	L I	NULL NULL	NA NA	NA NA	
5994	White Pine	Pinus strobus	1	23.2		0.0 0.0	0 Good	No	Yes	L	NULL	NA	NA		82	203 Pin Oak	Quercus palustri	s 1	17.2		0.0 0.0	Good	No	Yes	L	NULL	NA	NA	
5995 5996	Red Cedar Red Pine	Juniperus virginiana Pinus resinosa	1 1			0.0 0.0 0.0			Yes Yes	L L	NULL NULL	NA NA	NA NA			204 Pin Oak 205 Pin Oak	Quercus palustri <i>Quercus palustri</i> s		24.4 26.1		0.0 0.0 0.0 0.0	Good Good	No No	Yes Yes	L I	NULL NULL	NA NA	NA NA	
5997	Red Pine	Pinus resinosa	_ 1	20.2	0.0	0.0 0.0	0 Good	No	Yes	L L	NULL	NA	NA		82	206 Pin Oak	Quercus palustris	1	26.5	0.0	0.0 0.0	Good	No	Yes	L	NULL	NA	NA	
5998 5999	White Pine White Pine	Pinus strobus Pinus strobus	1 1	19.0 C	).0	).0	0 Good 0 Good		Yes Yes	L L	NULL NULL	NA NA	NA NA			207 Pin Oak 208 Pin Oak	Quercus palustris Quercus palustris		27.3 22.2	0.0 0.0	0.0 0.0 0.0 0.0	Good Good	No No	Yes Yes	L L	NULL NULL	NA NA	NA NA	
6000	Quaking Aspen	Populus tremuloides	1	15.8 C	).0 0	0.0 0.0	0 Good	No	Yes	L	NULL	NA	NA		82	209 Pin Oak	Quercus palustris	1	19.4	0.0	0.0 0.0	Good	No	Yes	L	NULL	NA	NA	
8130 8131	Bur Oak Shagbark Hickory	Quercus macrocarpa Carya ovata	1 1	16.2 C	).U 0 ).O 0	).0 0.0 ).0 0.0	0 Good 0 Good		Yes No	L L	NULL NULL	NA NA	NA NA			210 Cottonwoo 211 Pin Oak	d Populus deltoide. Quercus palustris		27.0 24.4	0.0 0.0	0.0 0.0 0.0 0.0	Good Good	No No	Yes Yes	L L	NULL NULL	NA NA	NA NA	
8132	Shagbark Hickory	Carya ovata	1	25.1 C	0.0 0	0.0 0.0	0 Good	No	No	L	NULL	NA	NA		82	212 Pin Oak	Quercus palustris	1	30.5	0.0	0.0 0.0	Good	No	Yes	L ,	NULL	NA	NA	
8133 8134	Shagbark Hickory Shagbark Hickory	•	2 1	20.0 1° 22.0 0°	7.2 0 ).0 0	).0 0.0 ).0 0.0	0 Good 0 Good		No No	L L	NULL NULL	NA NA	NA NA			213 Pin Oak 214 Cottonwoo	Quercus palustris d Populus deltoide:		23.7 26.5	0.0 0.0	0.0 0.0 0.0 0.0	Good Good	No No	Yes Yes	L L	NULL NULL	NA NA	NA NA	
8135	White Oak	Quercus alba		42.7 C	0.0	0.0	0 Good	No	No	L	NULL	NA	NA		82	215 Cottonwoo	d <i>Populus deltoide</i> :	5 1	24.3	0.0	0.0 0.0	Good	No	Yes	L	NULL	NA	NA	
8136 8137	Shagbark Hickory Shagbark Hickory	Carya ovata Carya ovata	1	21.0 C	).0 0 ).0 0	).0 0.0 ).0 0.0	0 Good 0 Good		No No	L L	NULL NULL	NA NA	NA NA			216	•	es 1 1	13.0 22.5	0.0	0.0 0.0 0.0 0.0	Good Good	No No	res Yes	L L	NULL NULL	NA NA	NA NA	
8138 8130	Shagbark Hickory	Carya ovata	1	24.0	0.0 0	0.0	0 Good		No	L	NULL	NA NA	NA NA		82	218 Black Waln	ut <i>Juglans nigra</i>	1	19.3	0.0	0.0 0.0	Good	No	Yes	L	NULL	NA NA	NA NA	
8139 8140	Wild Black Cherry Wild Black Cherry		1	23.1 8 26.5 C	).0 0	).0 0.0 ).0 0.0	0 Good 0 Good		Yes	L	NULL NULL	NA NA	NA NA			219 Red Pine 220 Red Pine	Pinus resinosa Pinus resinosa	1	19.0 20.0	0.0	0.0 0.0 0.0 0.0	Good Good	No	Yes	L	NULL NULL	NA NA	NA NA	
8141 8142	Wild Black Cherry Pin Oak		2	24.2 1 <sup>-1</sup> 17.2 0	7.7 0	0.0	0 Fair 0 Fair	No No	Yes	L I		Deadwood (DW) Deadwood (DW)	Stem Stem	Trunk rot. Trunk rot.		221 Black Waln 222 Red Oak		1	19.0 16.0	0.0	0.0 0.0	Good	No	Yes	L	NULL	NA NA	NA NA	
8142 8143	Pin Oak Pin Oak	Quercus palustris Quercus palustris	1	22.5 C	).0 0	0.0 0.0		No No	Yes	L	NULL	NA	Stem Stem	HUIIK IOL.		222 Red Oak 223 Pin Oak	Quercus rubra Quercus palustris	1	16.0 17.5	0.0	0.0 0.0	Good Good	No	Yes	L	NULL NULL	NA NA	NA	
8144 8145	Wild Black Cherry Wild Black Cherry		1		).0 0 ).0 0	0.0 0.0 0.0 0.0	0 Fair 0 Good	No No	Yes Yes	L I	NULL NULL	NA NA	Stem Stem	Excessive Leaning.	82	224 Pin Oak	Quercus palustris	1	19.6	0.0	0.0 0.0	Good	No	Yes	L	NULL	NA	NA	
0140	THE DIGEN CHETTY	, ranas scrounu	<b>±</b>	23.0	0	0.1		INU	103	L	IVOLL	14/7	Jeani																

TREE CONDITION HEALTH FORM WILL BE SUBMITTED AFTER TREE REMOVALS ARE APPROVED BY THE CITY OF ANN ARBOR.



ANDERSON, ECKSTEIN AND WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS Phone 586 726 1234 51301 Schoenherr Road

Shelby Township Michigan 48315 www.aewinc.com

ENGINEERING STRONG COMMUNITIES

Fax 586 726 8780

SITE PLAN SUBMITTAL SITE PLAN SUBMITTAL SITE PLAN SUBMITTAL BIDS & CITY SUBMITTAL 09-18-2025 07-24-2025 07-09-2024 01-05-2024

PROJECT NAME:

#### ST. PAUL LUTHERAN SCHOOL SITE **IMPROVEMENTS**

SUBMITTALS/REVISIONS

SHEET TITLE:

#### TREE LISTING

ST. PAUL LUTHERAN CHURCH

PRELIMINARY CONSTRUCTION RECORD DRAWN BY: CHECKED BY: DATE:
MJS SAK OCTOBER 2023 N.T.S.



UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF EXISTING FACILITIES ONLY, AS DISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE VARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

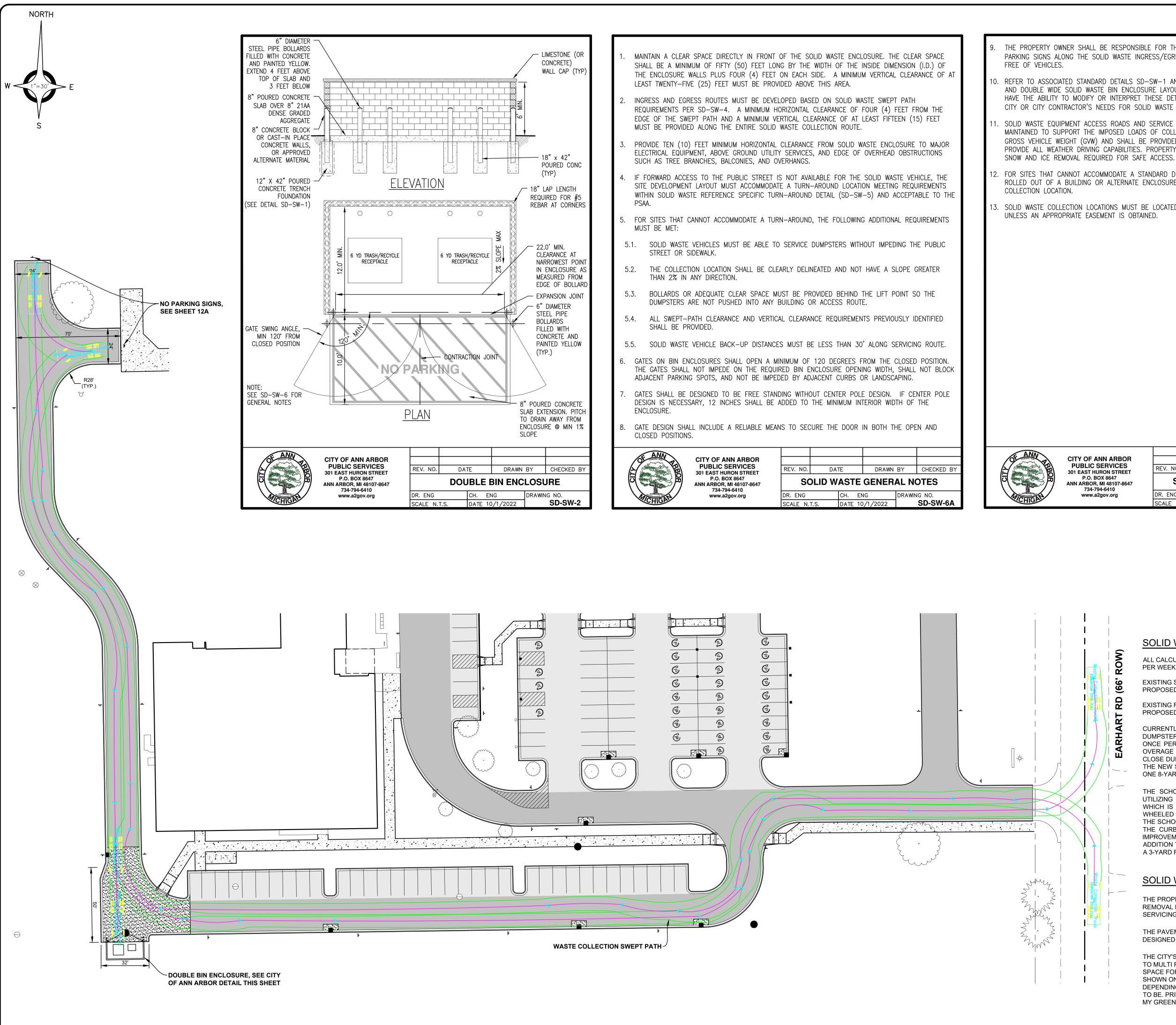
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PROJECT NO. 1688-0001

M:\1688\1688-0001\DWG\CIVIL\TREE SURVEY\01\_TREE SURVEY.DWG 16\_Tree Listing-9/18/2025 11:24:00 AM SHEET NO.



THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF NO PARKING SIGNS ALONG THE SOLID WASTE INGRESS/EGRESS ROUTE TO ENSURE THE ROUTE REMAINS

10. REFER TO ASSOCIATED STANDARD DETAILS SD-SW-1 AND SD-SW-2 FOR REQUIREMENTS ON SINGLE AND DOUBLE WIDE SOLID WASTE BIN ENCLOSURE LAYOUT AND DESIGN CRITERIA. THE CITY SHALL HAVE THE ABILITY TO MODIFY OR INTERPRET THESE DETAILS AS NECESSARY TO ACCOMMODATE THE CITY OR CITY CONTRACTOR'S NEEDS FOR SOLID WASTE PICK-UP.

11. SOLID WASTE EQUIPMENT ACCESS ROADS AND SERVICE AREA SURFACES SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF COLLECTION VEHICLES WEIGHING UP TO 66,000 LBS GROSS VEHICLE WEIGHT (GVW) AND SHALL BE PROVIDED WITH AN APPROVED SURFACE SO AS TO PROVIDE ALL WEATHER DRIVING CAPABILITIES. PROPERTY OWNER SHALL BE RESPONSIBLE FOR ALL

- 12. FOR SITES THAT CANNOT ACCOMMODATE A STANDARD DUMPSTER ENCLOSURE, THE DUMPSTERS MAY BE ROLLED OUT OF A BUILDING OR ALTERNATE ENCLOSURE BY THE PROPERTY OWNER TO AN APPROVED
- 13. SOLID WASTE COLLECTION LOCATIONS MUST BE LOCATED WITHIN THE BOUNDARIES OF THE PROPERTY

DATE DRAWN BY CHECKED BY **SOLID WASTE GENERAL NOTES** DRAWING NO. DR. ENG CH. ENG SD-SW-6B SCALE N.T.S. DATE 10/1/2022

SOLID WASTE CALCULATIONS & NARRATIVE

ALL CALCULATIONS ARE PER WEEK, COLLECTION OCCURS ONCE

CURRENTLY, THE SCHOOL UTILIZES ONE 6-YARD TRASH DUMPSTER TO COLLECT SOLID WASTE, WHICH IS COLLECTED

ONCE PER WEEK. THE SCHOOL IS, ON OCCASION, CHARGED AN OVERAGE FEE, AS THE LID TO THE DUMPSTER IS NOT ABLE TO CLOSE DUE TO OVERFILLING. AS PART OF THESE IMPROVEMENTS, THE NEW SOLID WASTE ENCLOSURE IS SIZED TO ACCOMMODATE

EXISTING SOLID WASTE GENERATED: 6.5 CUBIC YARD PROPOSED SOLID WASTE CAPACITY: 8 CUBIC YARD

EXISTING RECYCLING GENERATED: 1.5 CUBIC YARD

PROPOSED RECYCLING CAPACITY: 3 CUBIC YARD

ANDERSON, ECKSTEIN AND WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS

51301 Schoenherr Road Phone 586 726 1234 Fax 586 726 8780 Shelby Township Michigan 48315

www.aewinc.com

**ENGINEERING STRONG COMMUNITIES** 

SITE PLAN SUBMITTAL 09-18-2025 SITE PLAN SUBMITTAL 07-24-2025 SITE PLAN SUBMITTAL 07-09-2024 BIDS & CITY SUBMITTAL 01-05-2024 SUBMITTALS/REVISIONS PROJECT NAME:

#### ST. PAUL LUTHERAN SCHOOL SITE **IMPROVEMENTS**

SHEET TITLE

#### **SOLID WASTE PLAN**

ST. PAUL LUTHERAN CHURCH

PRELIMINARY CONSTRUCTION RECORD JANUARY 06, 2025

THE SCHOOL'S CURRENT RECYCLING PROGRAM CONSISTS OF UTILIZING SIX 50-GALLON (0.25-YARD) WHEELED TRASH CANS, WHICH IS CURRENTLY SUFFICIENT IN TERMS OF CAPACITY. THE WHEELED BINS ARE NOT SUFFICIENT IN TERMS EFFICIENCY, AS THE SCHOOL CURRENTLY HAS TO WHEEL THE BINS MANUALLY TO THE CURB FOR COLLECTION EACH WEEK. AS PART OF THESE IMPROVEMENTS, THE NEW SOLID WASTE ENCLOSURE, IN ADDITION TO THE TRASH DUMPSTER, IS SIZED TO ACCOMMODATE

#### SOLID WASTE NOTES

A 3-YARD RECYCLING DUMPSTER.

ONE 8-YARD DUMPSTER.

THE PROPERTY OWNER IS RESPONSIBLE FOR ALL SNOW AND ICE REMOVAL REQUIRED FOR SAFE ACCESS TO THE ENCLOSURES AND SERVICING OF ALL SOLID WASTE CONTAINERS.

THE PAVEMENT SURFACE OF THE SOLID WASTE ROUTE SHALL BE DESIGNED TO SUPPORT 79,500 GVWR.

THE CITY'S COMPOST PROGRAM DOES NOT CURRENTLY EXTEND TO MULTI FAMILY OR COMMERCIAL DEVELOPMENTS. PRELIMINARY SPACE FOR FUTURE MULTI FAMILY COMPOST COLLECTION MAY BE SHOWN ON THE PLANS, NOTING THAT IT IS SUBJECT TO CHANGE DEPENDING ON WHAT THE COLLECTION NEEDS ARE DETERMINED TO BE. PRIVATE COMPOST SERVICE CAN BE ARRANGED THROUGH MY GREEN MICHIGAN.

TILITY INFORMATION, AS SHOWN INDICATES APPROXIMATE OCATIONS AND TYPES OF EXISTING FACILITIES ONLY. AS SISCLOSED BY RECORDS PROVIDED TO THIS FIRM FROM THE ARIOUS UTILITY COMPANIES. NO GUARANTEE IS GIVEN OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF.

Know what's below. Call

72 hours before you dig.

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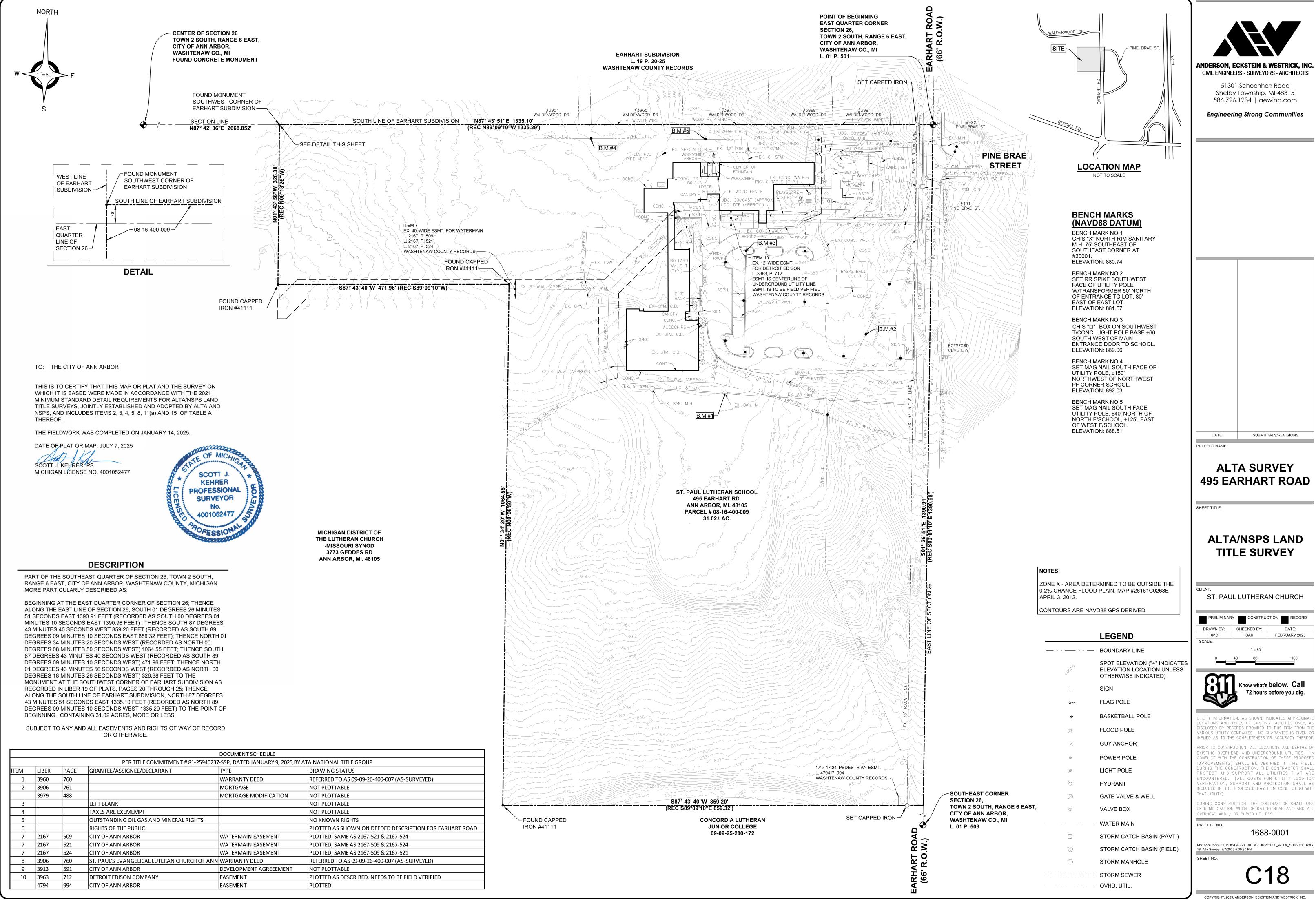
VERIFICATION, SUPPORT AND PROTECTION SHALL BE NCLUDED IN THE PROPOSED PAY ITEM CONFLICTING WITH

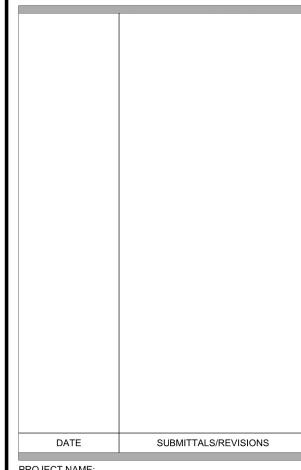
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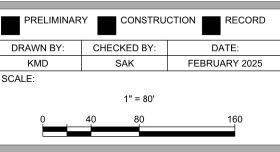
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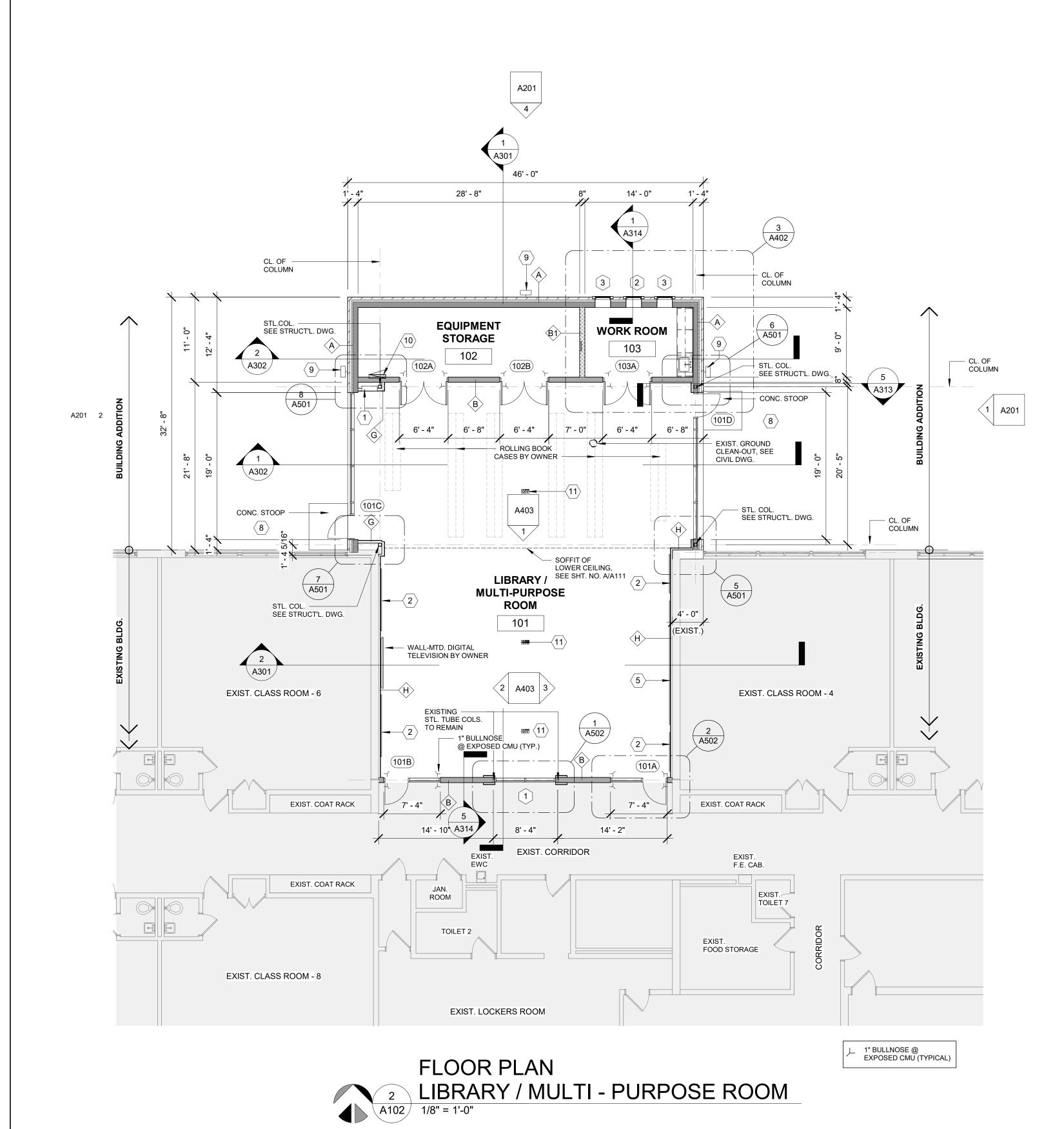
PROJECT NO.

SHEET NO.









### PARTITION TYPES:

4" BRICK VENEER OVER AIR GAP OVER 2" RIGID INSULATION, WITH AIR BARRIER ON 8" CMU

B 8" GROUND FACE CMU (BOTH SIDES)

8" CMU EXTEND TO STL. JOIST + GYP. BOARD BOTH SIDES W/ 3 5/8" METAL STUD @ 16" O.C. TIGHT TO DECK

8" CMU WITH 2 1/2" METAL STUDS @ 16" O.C. + GYP. BOARD ON ONE SIDE IN STL. JOIST FACE -EXTEND TO STL JOIST ABOVE (PAINT)

3 5/8" 18 GA. METAL STUDS @ 16" O.C. TIGHT TO DECK AND STRUCTURE ABOVE WITH BATT INSULATION AND 5/8" GWB BOTH SIDES BAINTED

3 5/8" 18 GA. METAL STUDS @ 16" O.C. TIGHT TO DECK AND STRUCTURE ABOVE WITH BATT INSULATION AND 5/8" GWB ON ONE SIDE (PAINTED)

2 1/2" 18 GA. METAL STUDS @ 16" O.C. TO 4" ABOVE THE CEILING WITH BATT INSULATION AND 5/8" GWB ON ONE SIDE (PAINT)

## FLOOR PLAN KEY NOTES

1 FIRE EXTINGUISHER AND CABINET, CONTRACTOR PROVIDED, CONTRACTOR INSTALLED

2 5 FT. (W) x 4 FT (H) BULLETIN BOARD, OWNER PROVIDED, CONTRACTOR INSTALLED

10 FT. (W) x 4 FT. (H) DRY MARKER BOARD, OWNER PROVIDED, CONTRACTOR INSTALLED

8 FT. (W) x 4 FT. (H) DRY MARKER BOARD, OWNER PROVIDED, CONTRACTOR INSTALLED

5 16 FT. (W) x 4 FT. (H) DRY MARKER BOARD, OWNER PROVIDED, CONTRACTOR INSTALLED

6 PROJECTOR ON SUSPENDED CARRIER, OWNER PROVIDED, OWNER INSTALLED

(7) METAL WIRE STORAGE SHELVING (7'-0" HIGH), CONTRACTOR PROVIDED, CONTRACTOR INSTALLED

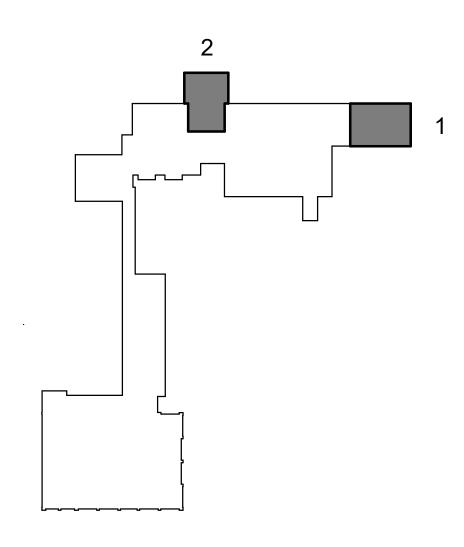
(8) CONCRETE STOOP, SEE TYPICAL DETAIL ON SHT. 4/A501

 $\langle 9 \rangle$  EXTERIOR LED LIGHT , SEE ELECTRICAL DWG.

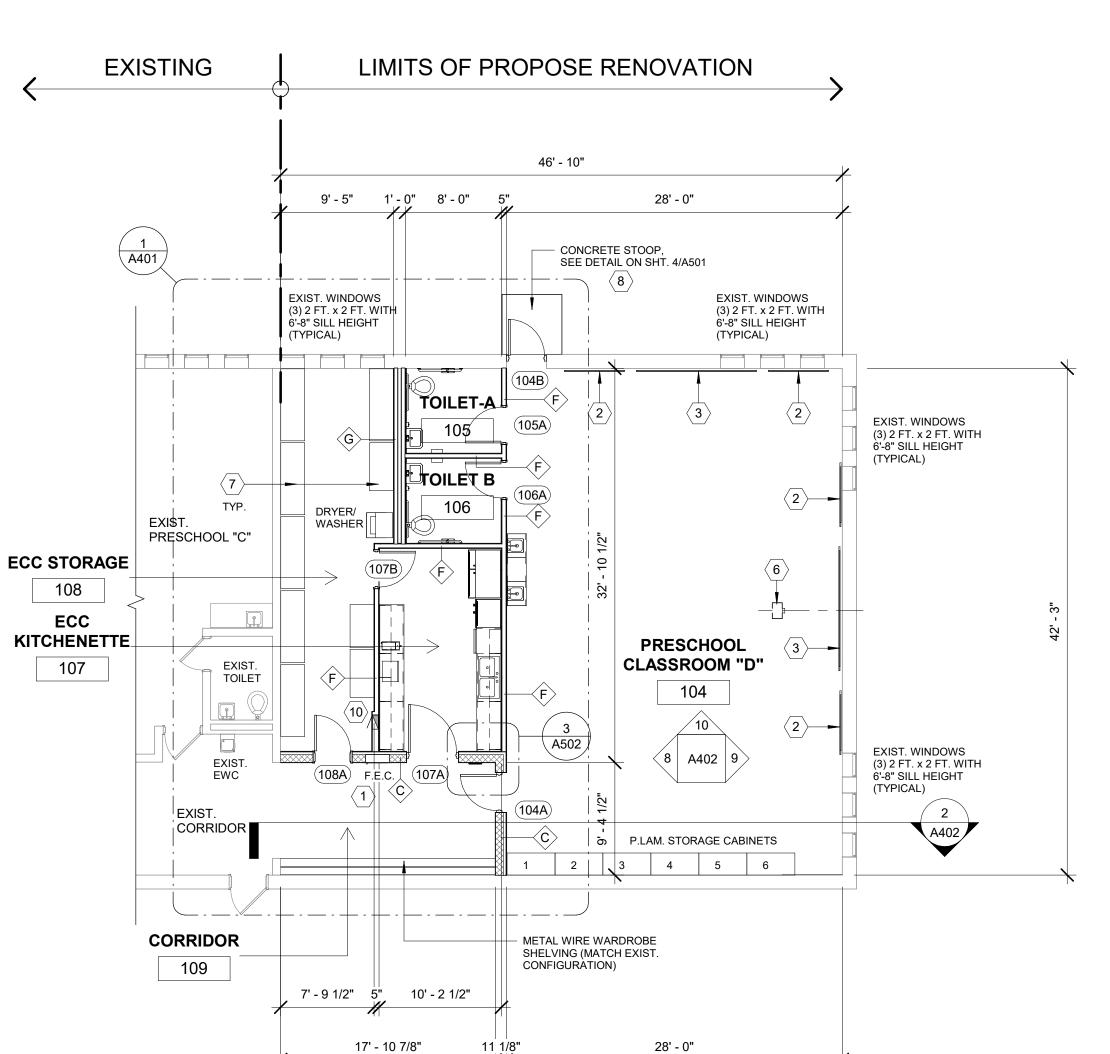
 $\langle 10 \rangle$  ELECTRICAL PANEL BOX, SEE ELECTRICAL DWG.

(11) ELECTRICAL FLOOR OUTLET & DATA, SEE ELECTRICAL DWG.

(×) WINDOW TYPE, SEE WINDOW SCHEDULE; SHEET A601











ANDERSON, ECKSTEIN AND WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS

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01-05-2024 BIDS & STATE SUBMITTAL
09-15-2023 OWNER REVIEW
02-28-2023 DESIGN DEVELOPMENT
02-10-2023 OWNER REVIEW

DATE SUBMITTALS/REVISIONS

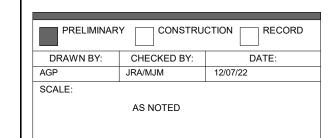
ST. PAUL LUTHERAN SCHOOL ADDITION / RENOVATION

SHEET TITI

PROJECT NAME:

FLOOR PLANS
(LIBRARY /
MULTI-PURPOSE RM
& PRESCHOOL RM)

ST. PAUL LUTHERAN SCHOOL





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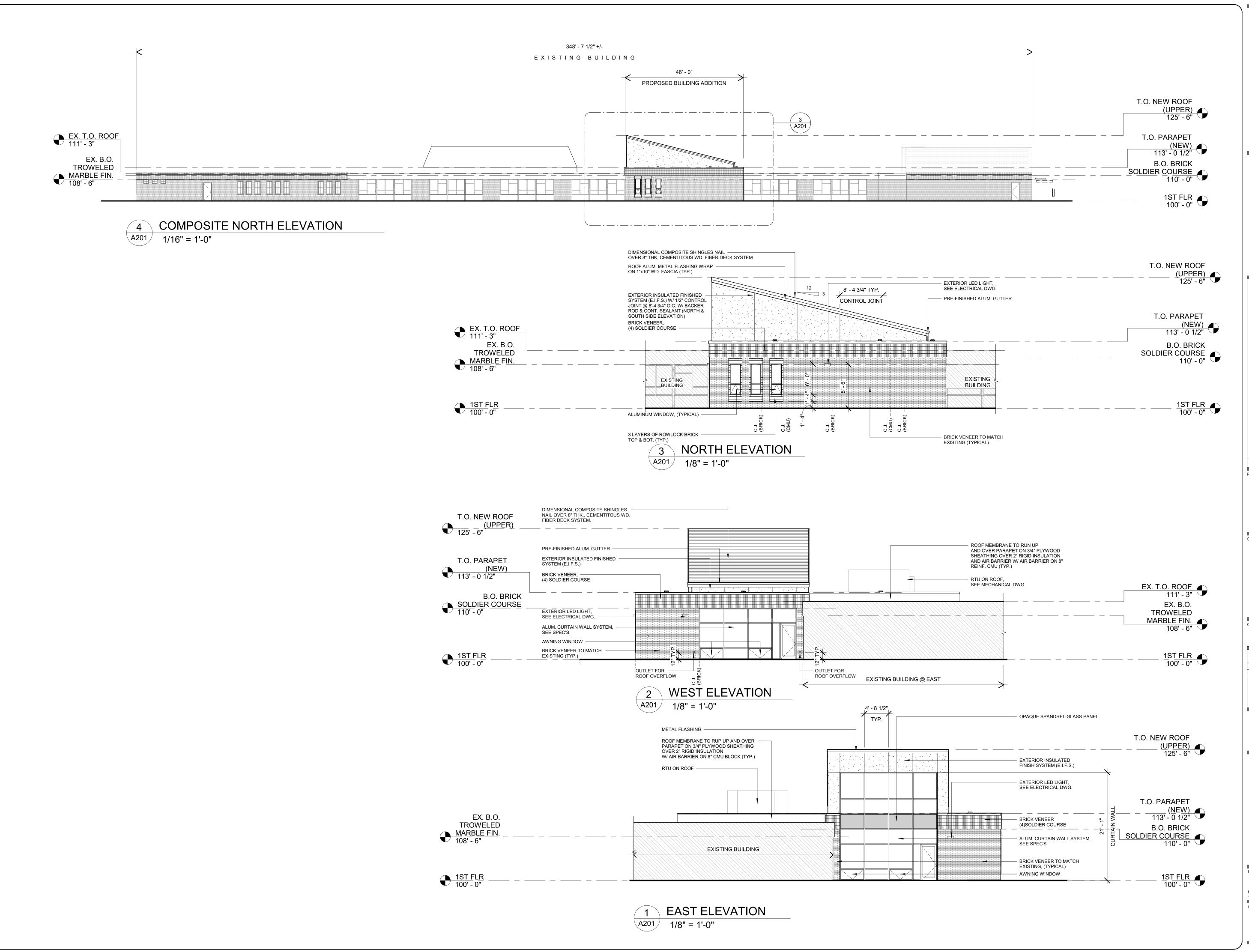
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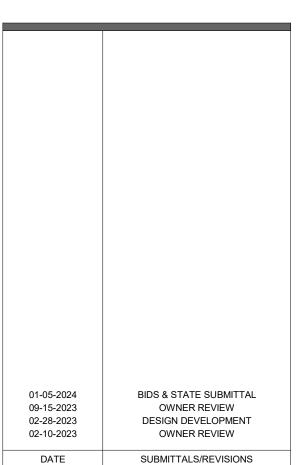


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Shelby Township Fax 586 726 8780
Michigan 48315

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PROJECT NAME:

ST. PAUL LUTHERAN SCHOOL ADDITION / RENOVATION

HEET TITLE:

EXTERIOR ELEVATIONS

ENT:
ST. PAUL LUTHERAN SCHOOL

PRELIMINARY CONSTRUCTION RECORD

DRAWN BY: CHECKED BY: DATE:

AGP JRA/MJM 12/10/22

SCALE:

AS NOTED



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PROJECT NO. 1688-0001

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SHEET NO.

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