



GREAT LAKES WATER AUTHORITY

CONTRACT NO. GLWA-2204605

FREUD PUMP STATION IMPROVEMENTS

DEVELOPMENT TEAM

OWNER

GREAT LAKES WATER AUTHORITY

735 RANDOLPH ST
DETROIT, MI 48226

CONTRACTOR

KOKOSING INDUSTRIAL, INC.

20500 EUREKA RD, SUITE 110
TAYLOR, MI 48180

CONCEPT ARCHITECT

INTOTO STUDIO

6505 WOODWARD AVE, SUITE 200
DETROIT, MI 48202

LANDSCAPE ARCHITECT

PEA GROUP

45 W. GRAND RIVER AVE, SUITE 501
DETROIT, MI 48226

ENGINEERS

ARCADIS OF MICHIGAN, LLC

607 SHELBY ST, SUITE 400
DETROIT, MI 48226

BROWN AND CALDWELL

100 WEST BIG BEAVER RD, SUITE 540
TROY, MI 48084

LIST OF DRAWINGS

CIVIL

C-00-101	SITE PLAN
C-00-102	GRADING PLANS
C-00-503	STANDARD CIVIL DETAILS MISCELLANEOUS
C-02-504	MISCELLANEOUS CIVIL DETAILS

LANDSCAPE

L-02-001	LANDSCAPE LEGENDS, SUMBOLS, AND NOTES
L-02-101	OVERALL LANDSCAPE PLAN
L-02-401	LANDSCAPE PLAN ENLARGEMENT
L-02-501	LANDSCAPE DETAILS
L-02-502	LANDSCAPE FENCE DETAILS
	RENDERED LANDSCAPE SITE PLAN

STRUCTURAL

S-00-017	STANDARD DETAILS 13
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ARCHITECTURAL

A-02-101	FIRST FLOOR PLAN
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ELECTRICAL

E-00-005	LIGHTING FIXTURE SCHEDULE
E-02-103	FIRST FLOOR LIGHTING PLAN

RENDERINGS

3 PAGES

ELEVATIONS

4 PAGES

LEGAL DESCRIPTION

2 PAGES
9 PAGES

PROJECT SUMMARY

SITE DATA

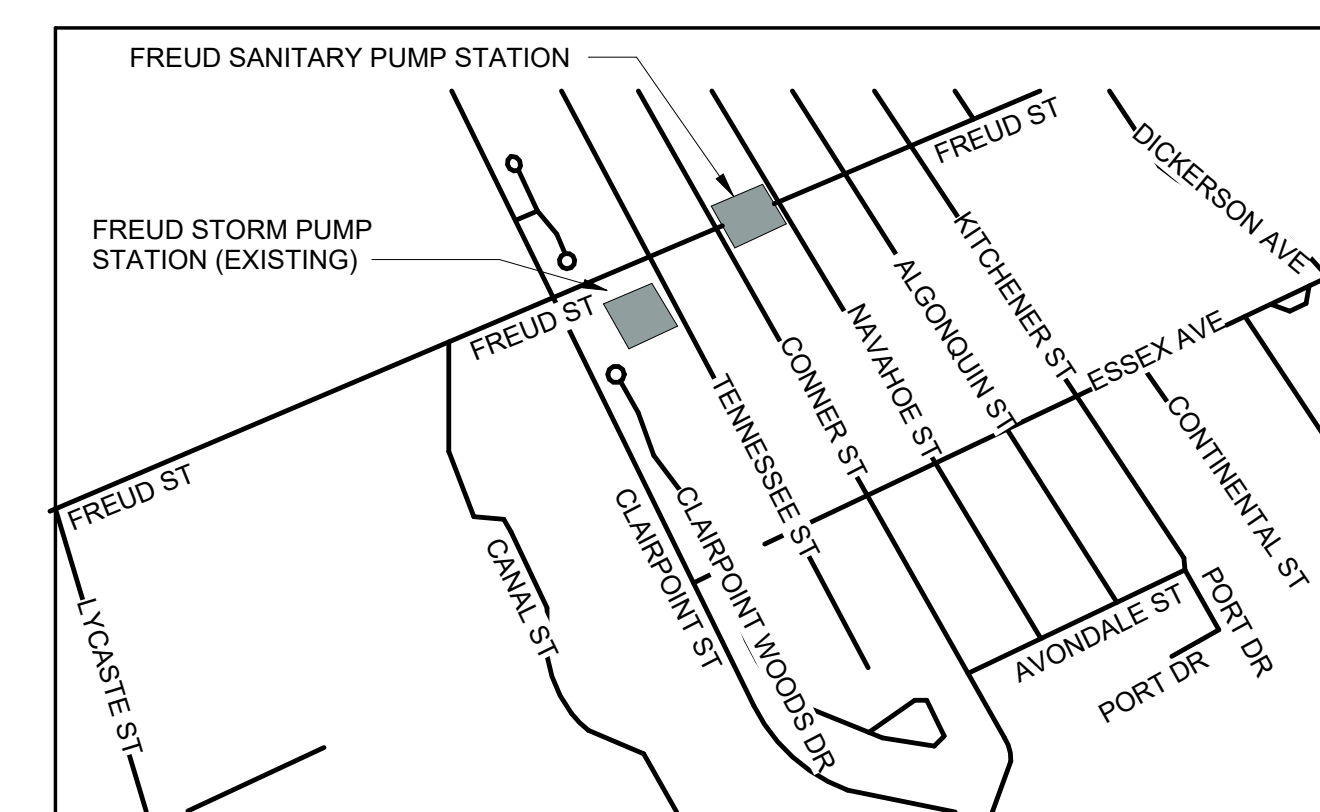
APPROX. LOT SIZE:
693 NAVAHOE ST. (PARCEL E.2) +/- 49,142.50 SF OR +/- 1.13 ACRES

ZONING PD (PLANNED DEVELOPMENT DISTRICT)

BUILDING DATA

FREUD SANITARY PUMP STATION
HEIGHT FROM GRADE TO TOP OF ROOFTOP SCREENING 42' - 0" *
* REQUEST ALLOWANCE UP TO 45' - 0"

FREUD STORM PUMP STATION (EXISTING)
HEIGHT FROM GRADE TO TOP OF PARAPET WALL 51' - 2"

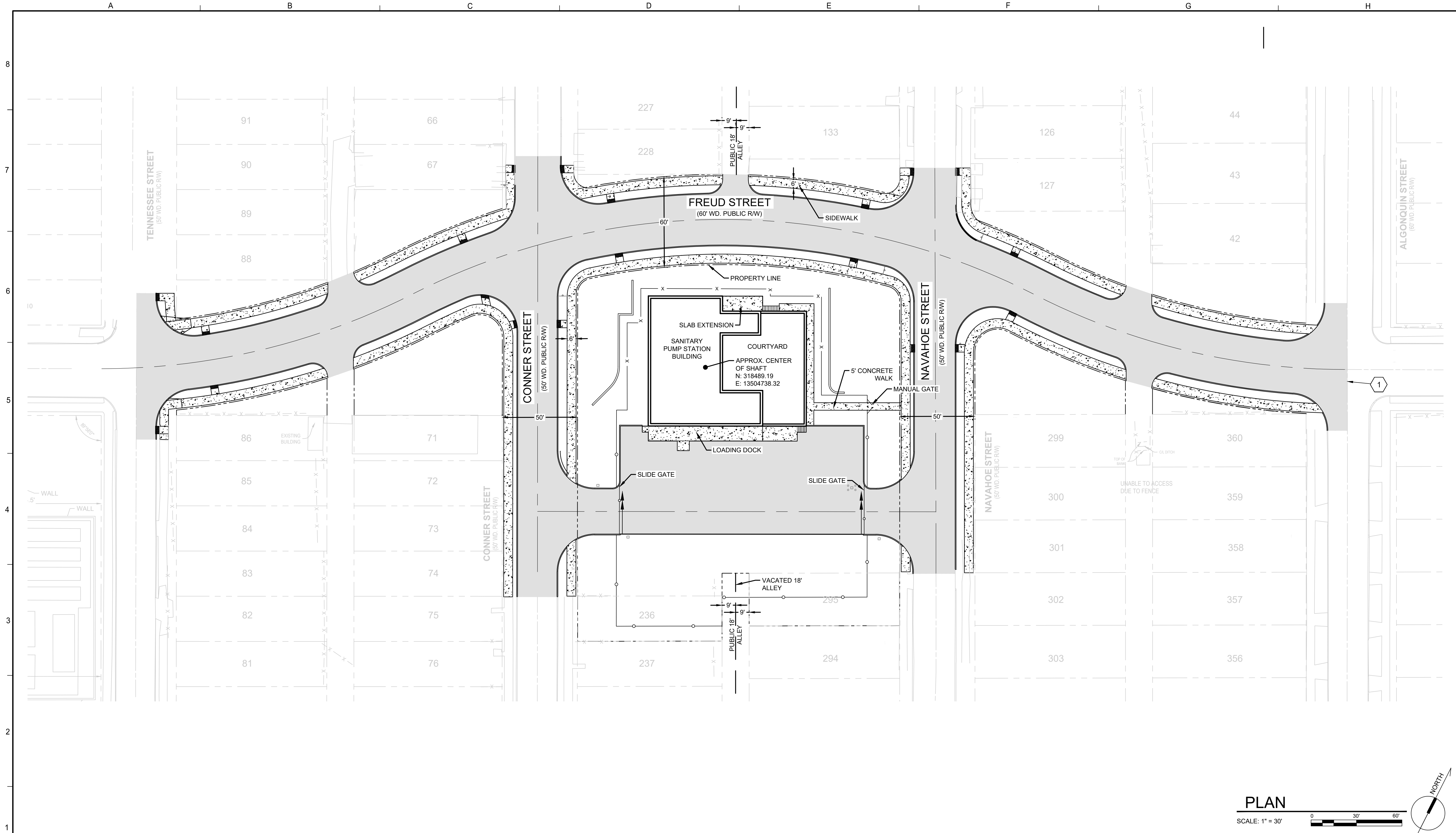


LOCATION MAP

NOT TO SCALE



JULY 2025



BASIS OF COORDINATES: CITY OF DETROIT. (CONVERSION FROM CITY OF DETROIT DATUM TO NAVD88: CITY OF DETROIT DATUM + 479.25 = NAVD88)

FREUD PUMP STATION
IMPROVEMENTS

CPC SITE PLAN

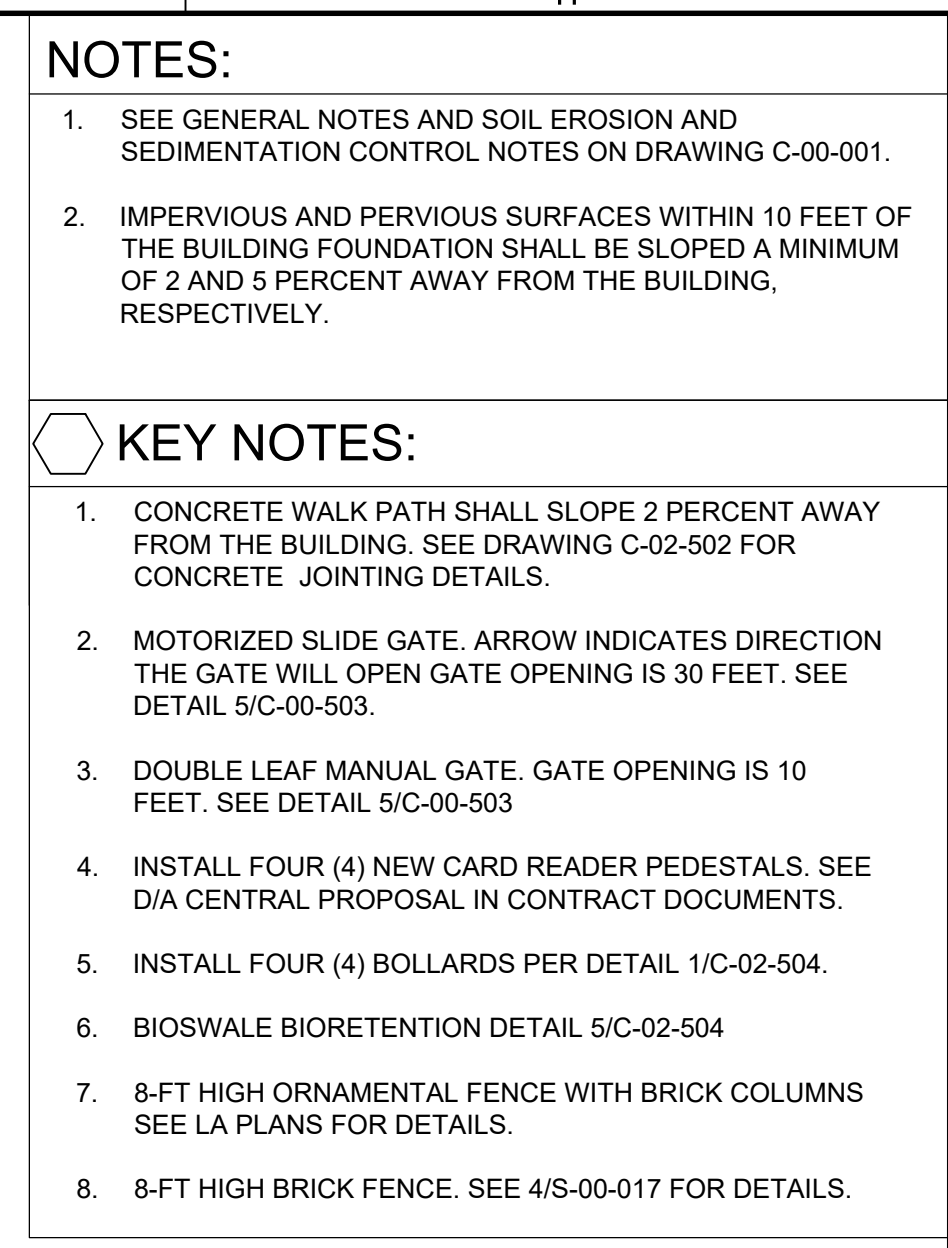


LEGAL ENTITY: ARCADIS OF MICHIGAN, LLC
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EGLE PERMIT No.	P41004061 v. 1
GLWA CONTRACT No.	2204605
GLWA CIP No.	232002
DRAWING No.	C-00-101

		DESIGNED BY:	X. ZHANG
		DRAWN BY:	J. WATTS
		CHECKED BY:	J. O'NEILL
		APPROVED BY:	J. O'NEILL
No.	DESCRIPTIONS/REVISIONS	DATE	



A diagram of a bar magnet. It consists of a circle with a thick black rectangular bar inside. An arrow points from the top of the bar towards the top right, with the word "NORTH" written above it.

EGLE PERMIT No.	P41004061 v. 1
GLWA CONTRACT No.	2204605
GLWA CIP No.	232002
DRAWING No.	C-00-102

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			X. ZHANG
			DRAWN BY:
			J. WATTS
			CHECKED BY:
			J. O'NEILL
			APPROVED BY:
No.	DESCRIPTIONS/REVISIONS	DATE	J. O'NEILL



1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF DETROIT, WAYNE COUNTY AND MDOT.
2. FOR ANY WORK WITHIN THE PUBLIC ROW, THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND ARRANGE FOR ALL INSPECTIONS.
3. EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS. TIES ROOTS SHALL BE COMPLETELY REMOVED
4. IN ALL CASE BEFORE PLACEMENT OF ANY ENBANKMENT AND/OR AFTER THE INITIAL ROUGH GRADING, THE SOIL/ SUBGRADE SHALL BE INSPECTED BY THE ENGINEER. CORRECTIVE MEASURE MAY REQUIRE ANY OR ALL THE FOLLOWING: SUBGRADE UNDERCUTTING, BACKFILL WITH SUITABLE EMBANKMENTS, 21AA AGGREGATE BACKFILL.
5. AGGREGATE BASE COURSE SHALL BE COMPACTED TO 100 PERCENT OF ITS MAXIMUM UNIT WEIGHT. THE BASE SHALL EXTEND A MINIMUM OF 2 FEET BEYOND THE BACK OF CURB OR THE PAVED EDGE.
6. BACKFILL WITH EMBANKMENT PRIOR TO PLACING HMA BASE.
7. USE BOND COAT SS-1H BETWEEN EACH HMA LIFT AT A RARE OF 0.05 GAL/SYD.
8. ROW RESTORATION SHALL CONSIST OF EITHER SEED MIX THM AND MULCH OVER 3 INCHES OF TOPSOIL OR SOD OVER 2 INCHES OF TOPSOIL.



STATE OF MICHIGAN
JAMES A. JOHNSON
ENGINEER
No.
6201069540
LICENSED PROFESSIONAL ENGINEER
05/05/2023

MISCELLANEOUS CIVIL DEATAILS

Brown AND Caldwell

DRAWING No.	C-02-504
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GLWA
Great Lakes Water Authority

SECTION MAP				TOWN	RANGE	SECTION	Q	QQ
0	6	2	D					

GENERAL PLANTING NOTES:

1. LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING SITE CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK. IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, PLAN SHALL GOVERN QUANTITIES. CONTACT LANDSCAPE ARCHITECT WITH ANY CONCERNS.
2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON SITE UTILITIES PRIOR TO BEGINNING CONSTRUCTION ON HIS/HER PHASE OF WORK. ELECTRIC, GAS, TELEPHONE, CABLE TELEVISION MAY BE LOCATED BY CALLING MISS DIG 1-800-482-7171. ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL RELATED ACTIVITIES WITH OTHER TRADES ON THE JOB AND SHALL REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER'S REPRESENTATIVE PRIOR TO COMMENCING.
3. ALL PLANT MATERIAL TO BE PREMIUM GRADE NURSERY STOCK AND SHALL SATISFY AMERICAN ASSOCIATION OF NURSERYMEN STANDARD FOR NURSERY STOCK. ALL LANDSCAPE MATERIAL SHALL BE NORTHERN GROWN, NO. 1 GRADE.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON LANDSCAPE PLAN PRIOR TO PRICING THE WORK.
5. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.
6. ALL SINGLE STEM SHADE TREES TO HAVE STRAIGHT TRUNKS AND SYMMETRICAL CROWNS.
7. ALL SINGLE TRUNK SHADE TREES TO HAVE A CENTRAL LEADER; TREES WITH FORKED OR IRREGULAR TRUNKS WILL NOT BE ACCEPTED.
8. ALL MULTI STEM TREES SHALL BE HEAVILY BRANCHED AND HAVE SYMMETRICAL CROWNS. ONE SIDED TREES OR THOSE WITH THIN OR OPEN CROWNS SHALL NOT BE ACCEPTED.
9. ALL EVERGREEN TREES SHALL BE HEAVILY BRANCHED AND FULL TO THE GROUND, SYMMETRICAL IN SHAPE AND NOT SHEARED FOR THE LAST FIVE GROWING SEASONS.
10. ALL TREES TO HAVE CLAY OR CLAY LOAM BALLS, TREES WITH SAND BALLS WILL BE REJECTED.
11. NO MACHINERY IS TO BE USED WITHIN THE DRIP LINE OF EXISTING TREES; HAND GRADE ALL LAWN AREAS WITHIN THE DRIP LINE OF EXISTING TREES.
12. ALL TREE LOCATIONS SHALL BE STAKED BY LANDSCAPE CONTRACTOR AND ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE PLANT MATERIAL.
13. IT IS MANDATORY THAT POSITIVE DRAINAGE IS PROVIDED AWAY FROM ALL BUILDINGS.
14. ALL PLANTING BEDS SHALL RECEIVE 3" SHREDDED HARDWOOD BARK MULCH WITH PRE EMERGENT, SEE SPECIFICATIONS. SHREDDED PALETTE AND DYED MULCH WILL NOT BE ACCEPTED.
15. ALL LANDSCAPED AREAS SHALL RECEIVE 3" COMPACTED TOPSOIL.
16. SEE SPECIFICATIONS FOR ADDITIONAL COMMENTS, REQUIREMENTS, PLANTING PROCEDURES AND WARRANTY STANDARDS.
17. CONTRACTOR SHALL NOT INSTALL PLANTS UNDER BUILDING OVERHANG AND SHALL NOTIFY LANDSCAPE ARCHITECT IF DRAWINGS CONFLICT WITH BUILDING OVERHANGS.
18. THE FOLLOWING SPECIFICATIONS SHALL APPLY TO SHEETS L-02-001, L-02-101, L-02-401, AND L-02-501.
 - 328400 - PLANTING IRRIGATION
 - 329133 - SOIL PREPARATION
 - 329200 - TURF AND GRASSES
 - 329300 - PLANTS

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GENERAL IRRIGATION NOTES:

NEW IRRIGATION SYSTEM AND CONTROLLER TO BE DESIGN/BUILD AND INSTALLED BY CONTRACTOR MEETING THE FOLLOWING CRITERIA:

1. IRRIGATION IMPROVEMENTS SHALL COMPLY WITH ALL LOCAL AND STATE LAWS AND ORDINANCES WHERE APPLICABLE.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SHOWING THE LOCATION OF ALL MAIN LINES, LATERALS LINES, HEADS, DRIP IRRIGATION LINES, AND QUICK COUPLERS TO THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION PLANS SHALL INCLUDE AND INDICATE SEPARATE ZONES FOR LAWN AND SHRUB AREAS.
3. CONTRACTOR SHALL SUBMIT PRODUCT CUT SHEETS FOR PROPOSED EQUIPMENT INCLUDING ALL HEADS, VALVE BOXES, AND QUICK COUPLER VALVES FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
4. IRRIGATION SYSTEM SHALL BE FLUSHED AT COMPLETION OF PROJECT AND ALL LINES TESTED UNDER NORMAL WATER PRESSURE FOR 12 HOURS. REPAIR ALL LEAKS AND REPEAT TEST.
5. ADJUST HEADS TO PROVIDED OPTIMUM COVERAGE AND PERFORMANCE.
6. PROVIDE AS-BUILT INFORMATION FOR SYSTEM AND ANY PRODUCT INFORMATION TO OWNER ONCE SYSTEM IS INSTALLED AND ACCEPTED.
7. THE ENTIRE SYSTEM SHALL BE GUARANTEED TO BE COMPLETE AND IN WORKING ORDER FOR A PERIOD OF ONE YEAR FROM THE DATE OF ITS ACCEPTANCE AND AGREES TO REPAIR OR REPLACE ANY SUCH DEFECTS OCCURRING WITHIN THAT YEAR, FREE OF EXPENSE TO THE OWNER. MINOR MAINTENANCE AND ADJUSTMENT SHALL BE BY OWNER.
8. REFER TO IRRIGATION SPECIFICATION FOR ADDITIONAL MATERIAL AND DESIGN REQUIREMENTS

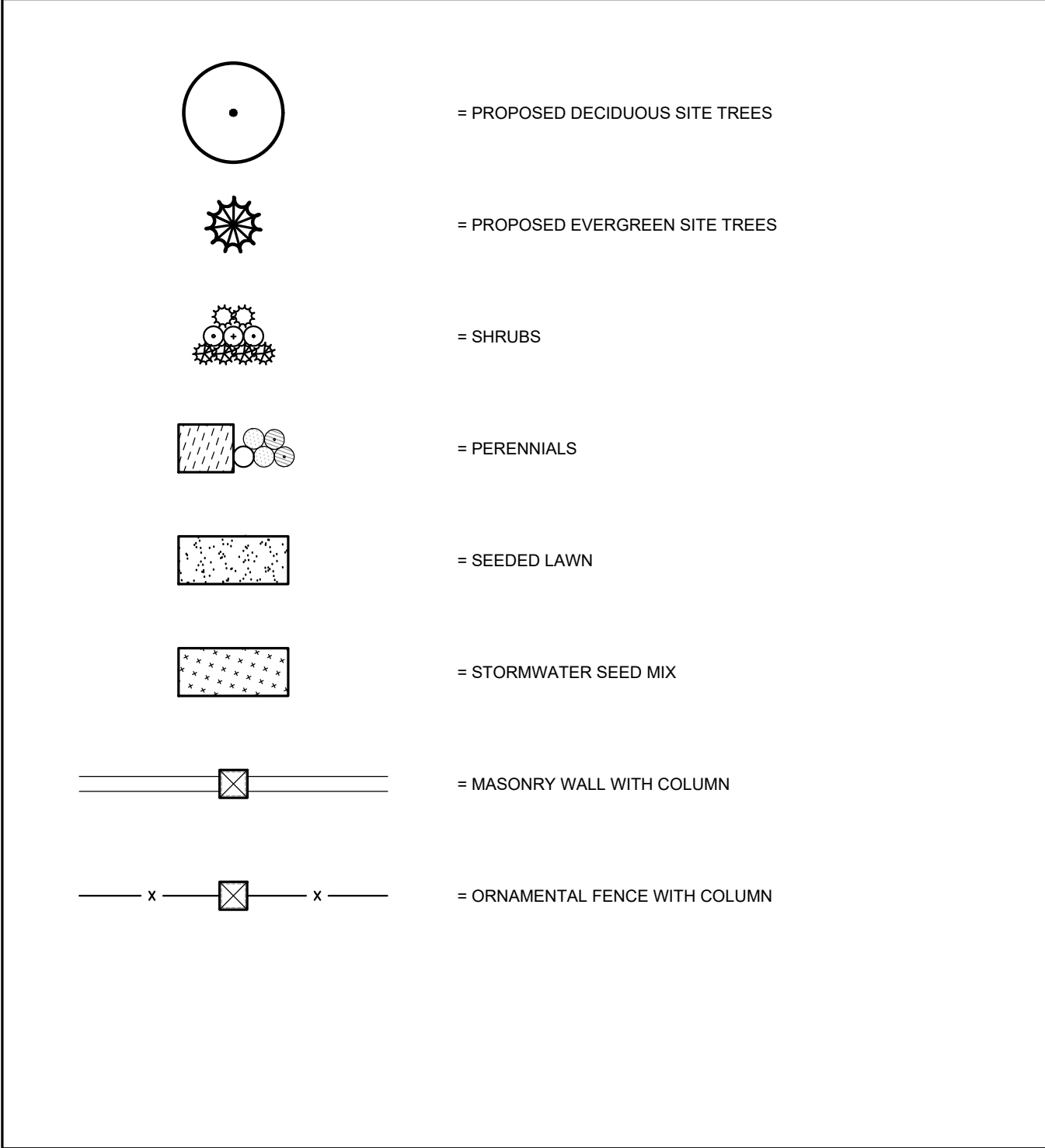
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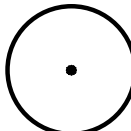
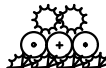
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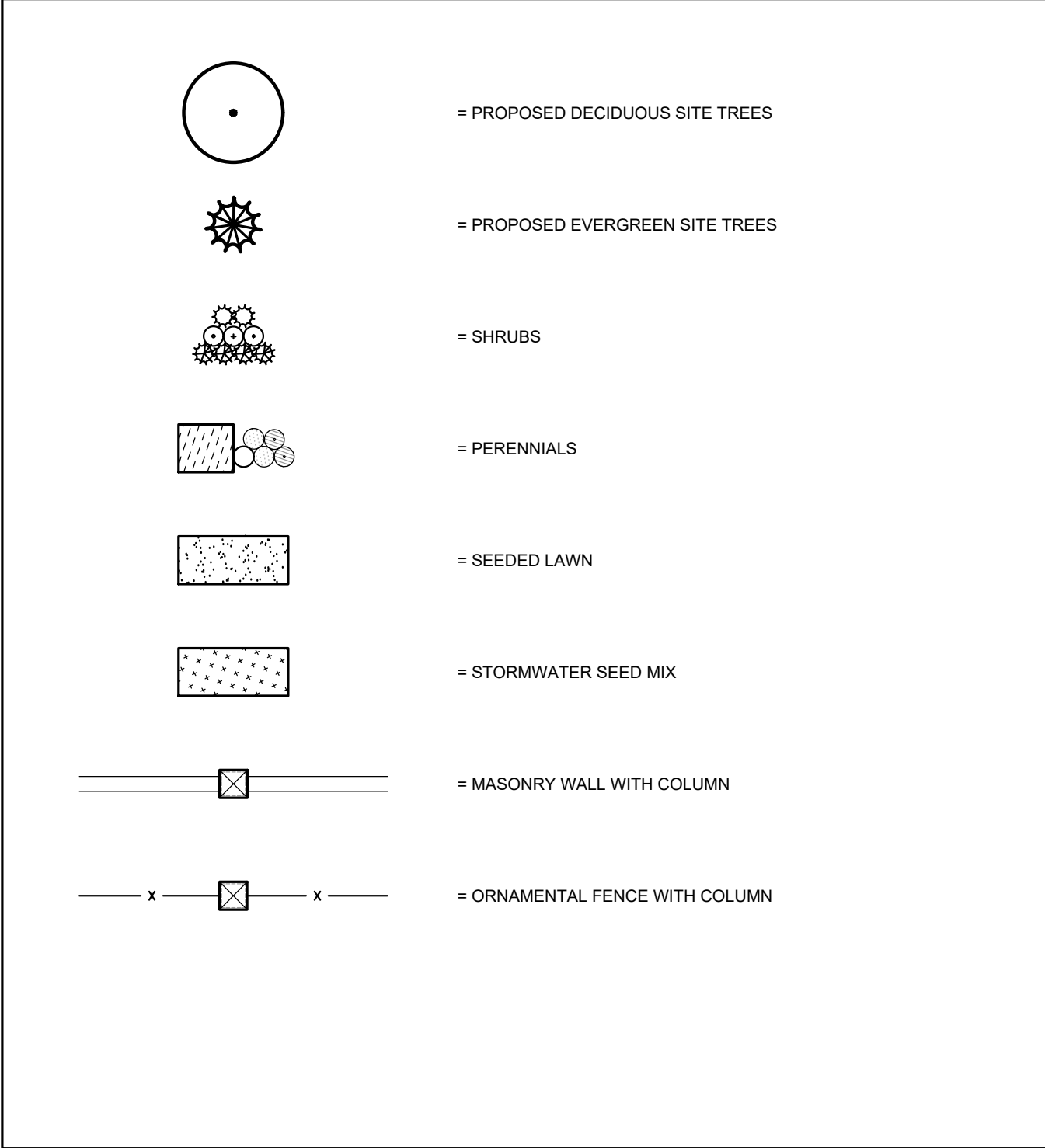
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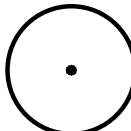
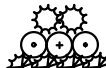
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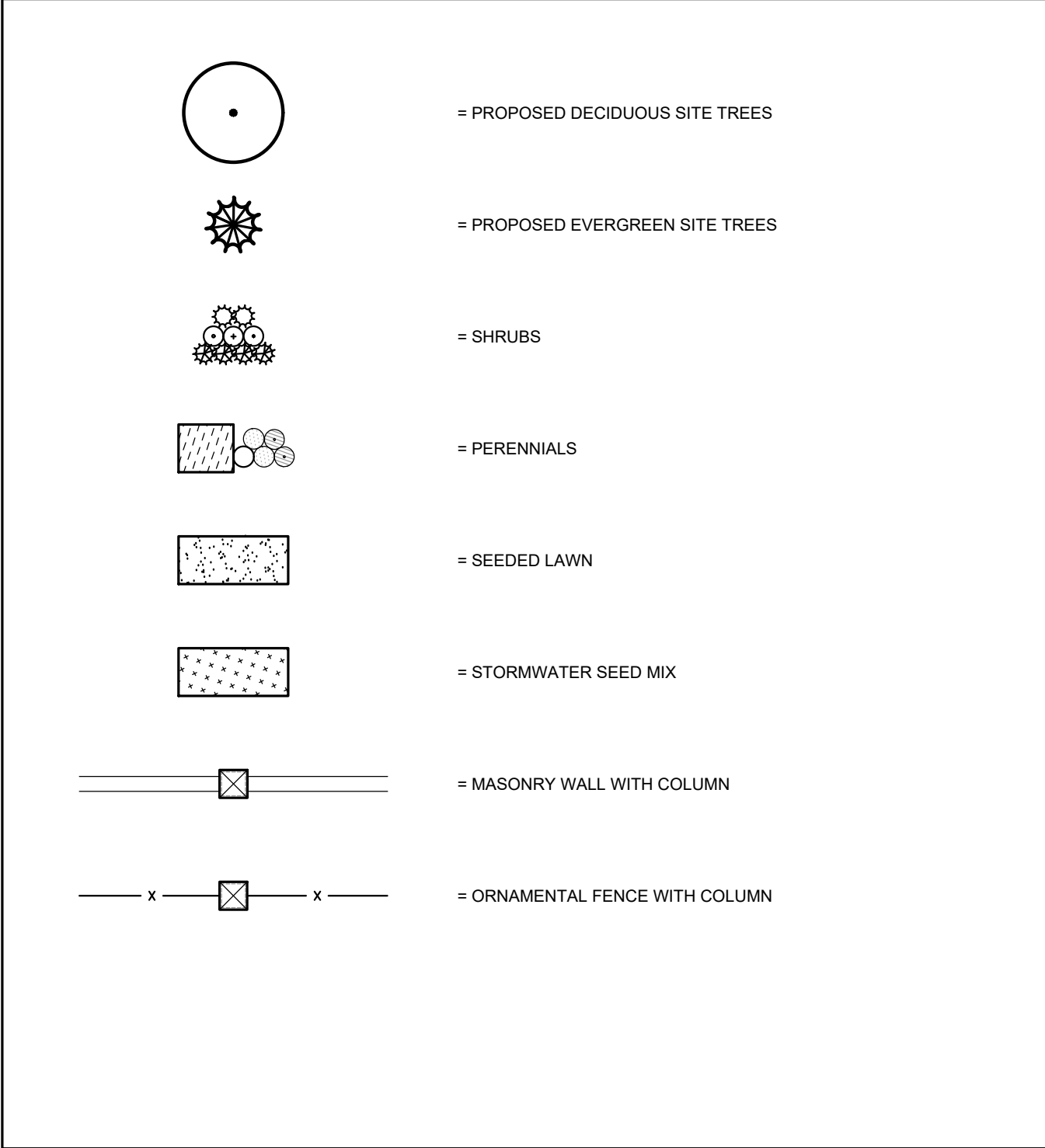
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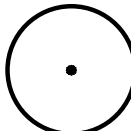
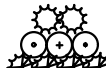


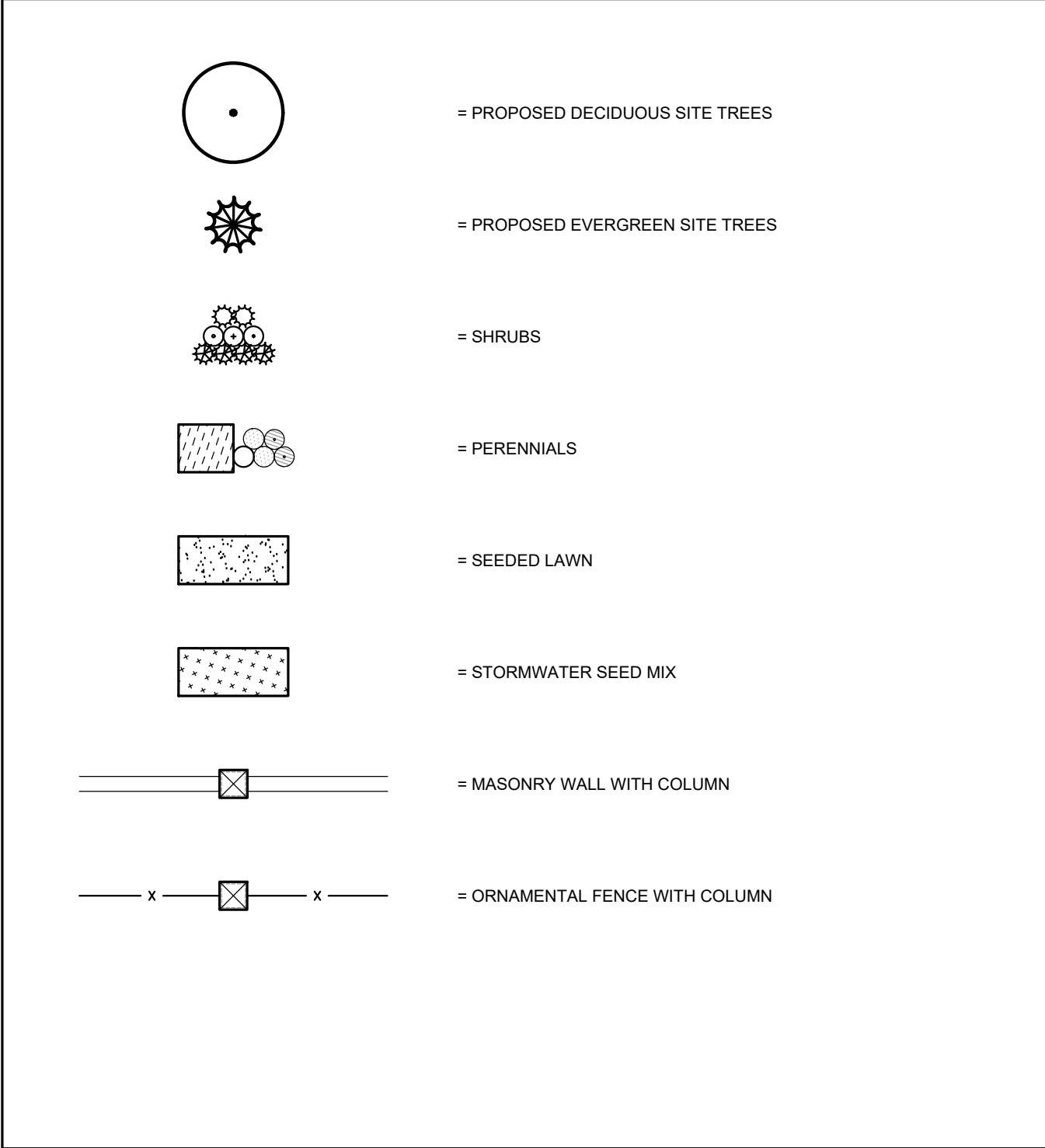
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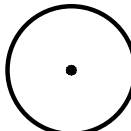
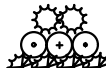


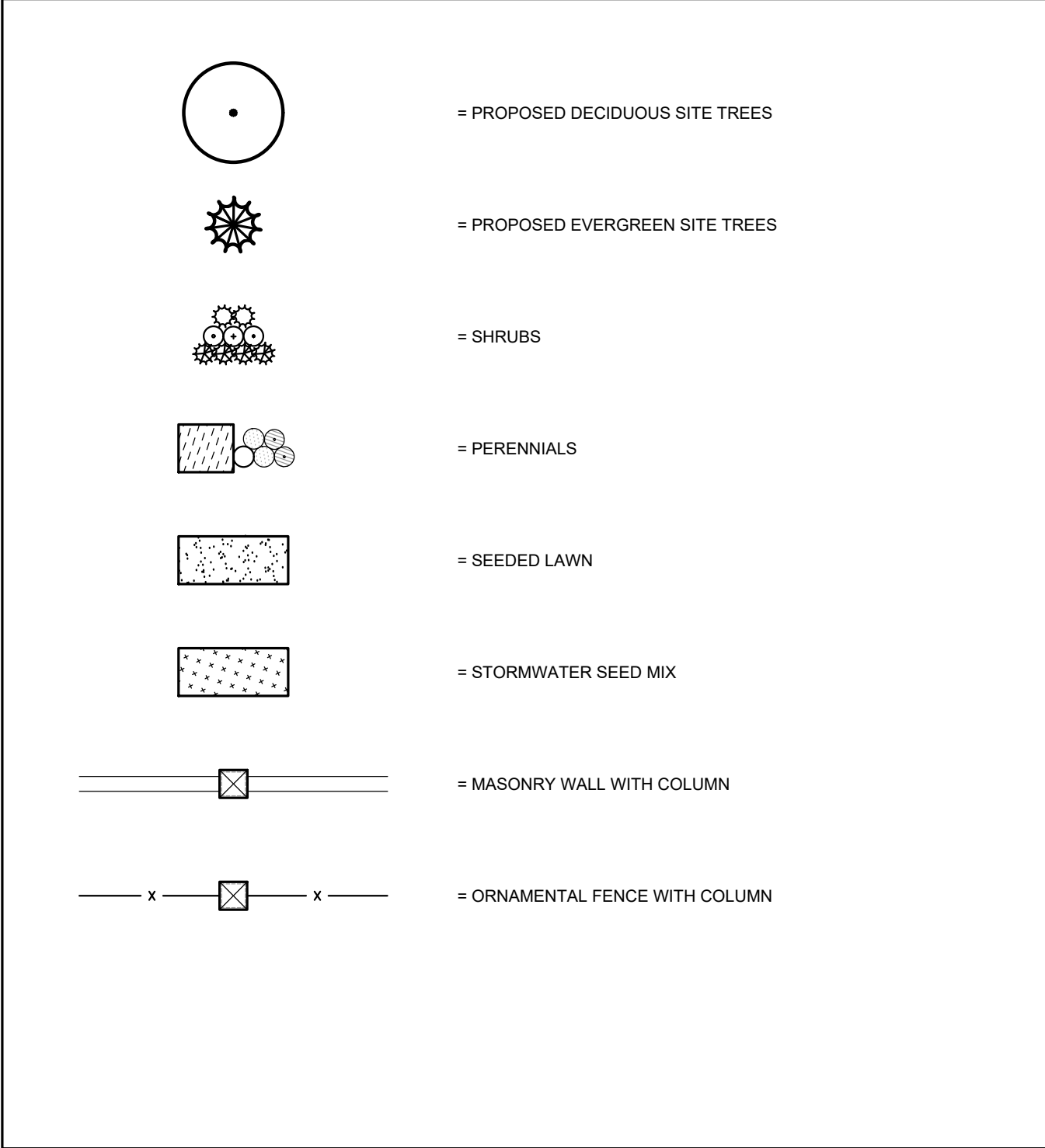
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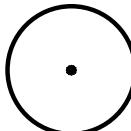
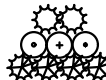


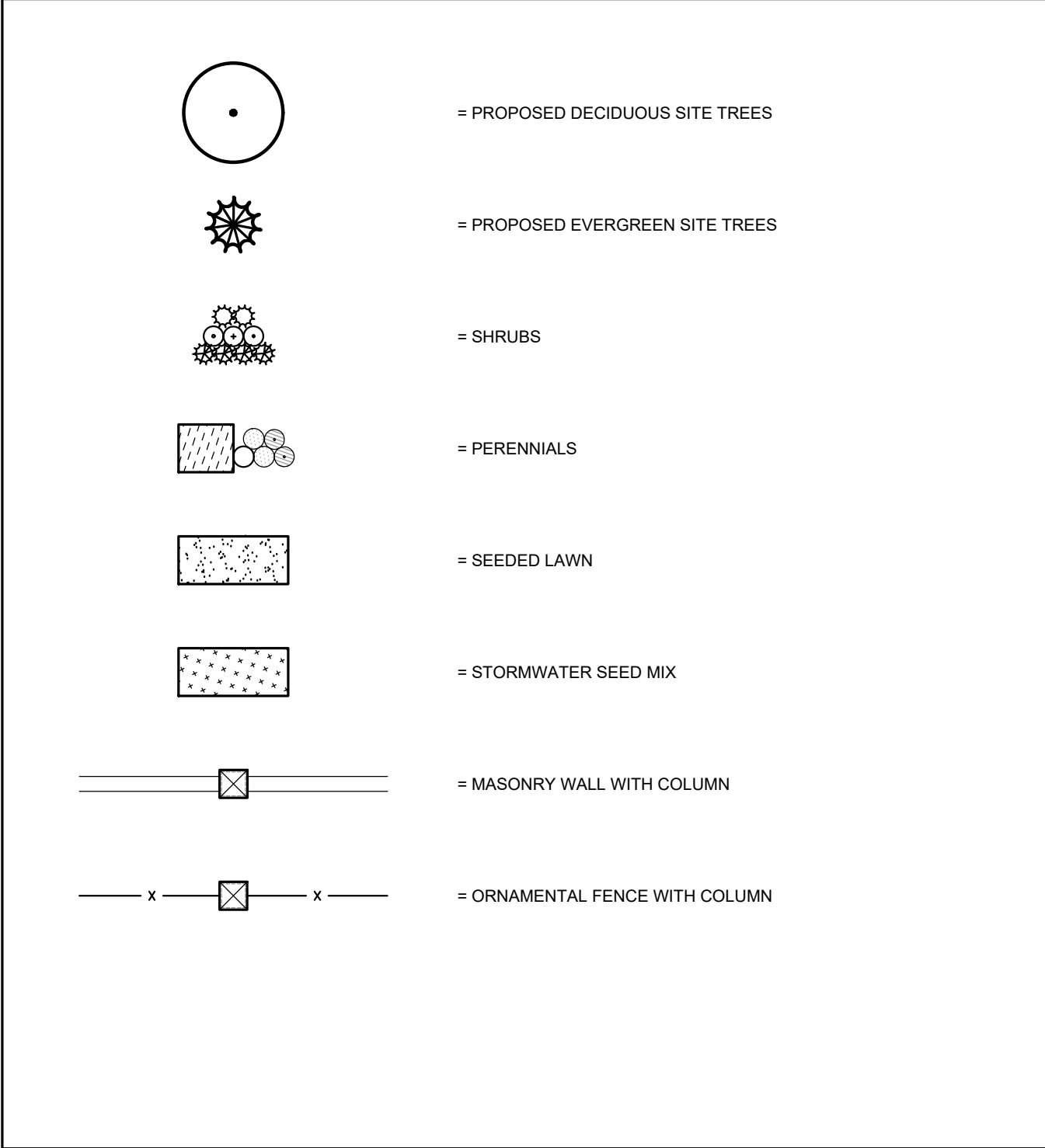
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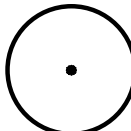
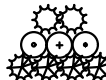


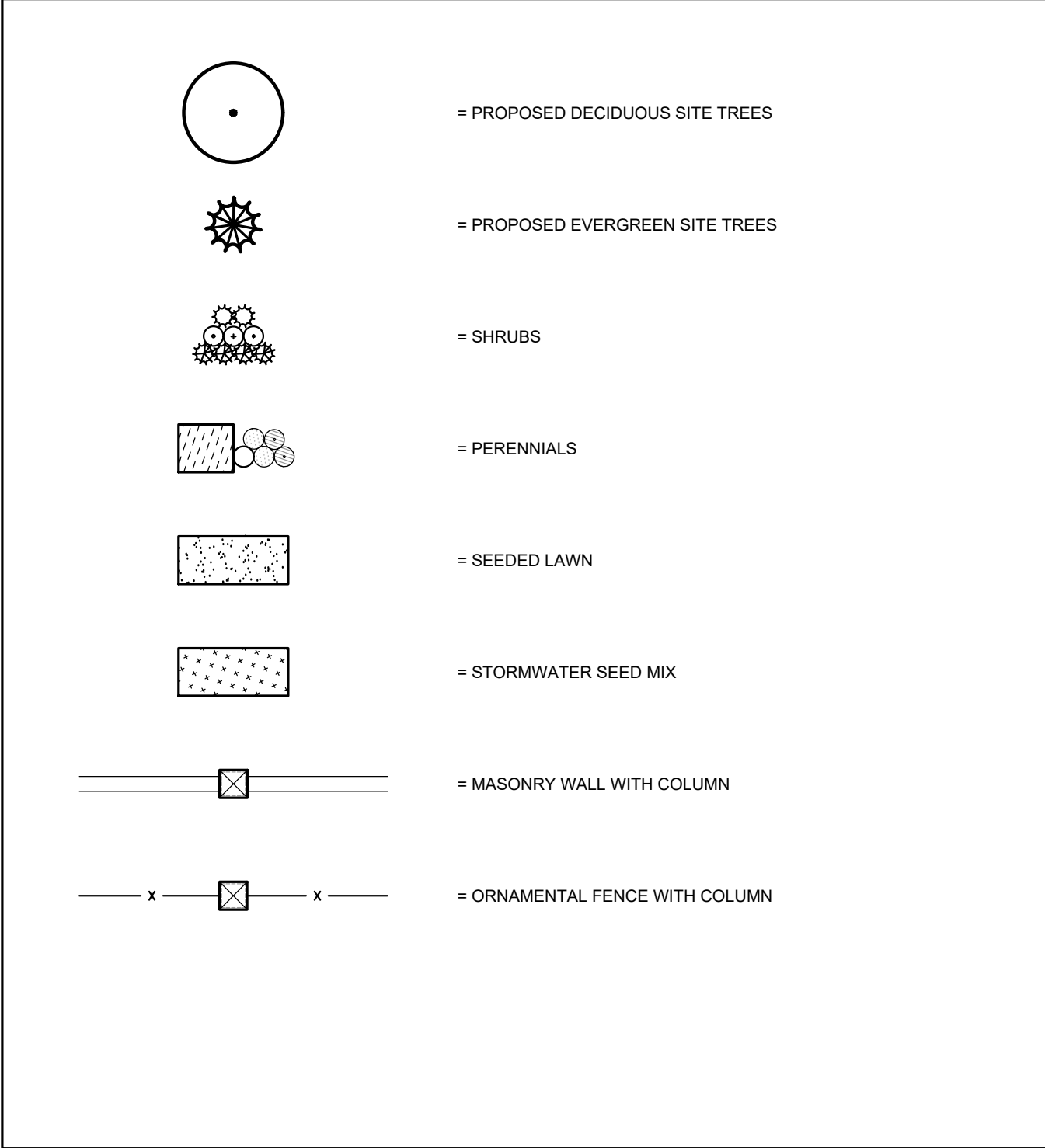
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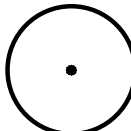
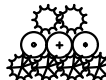


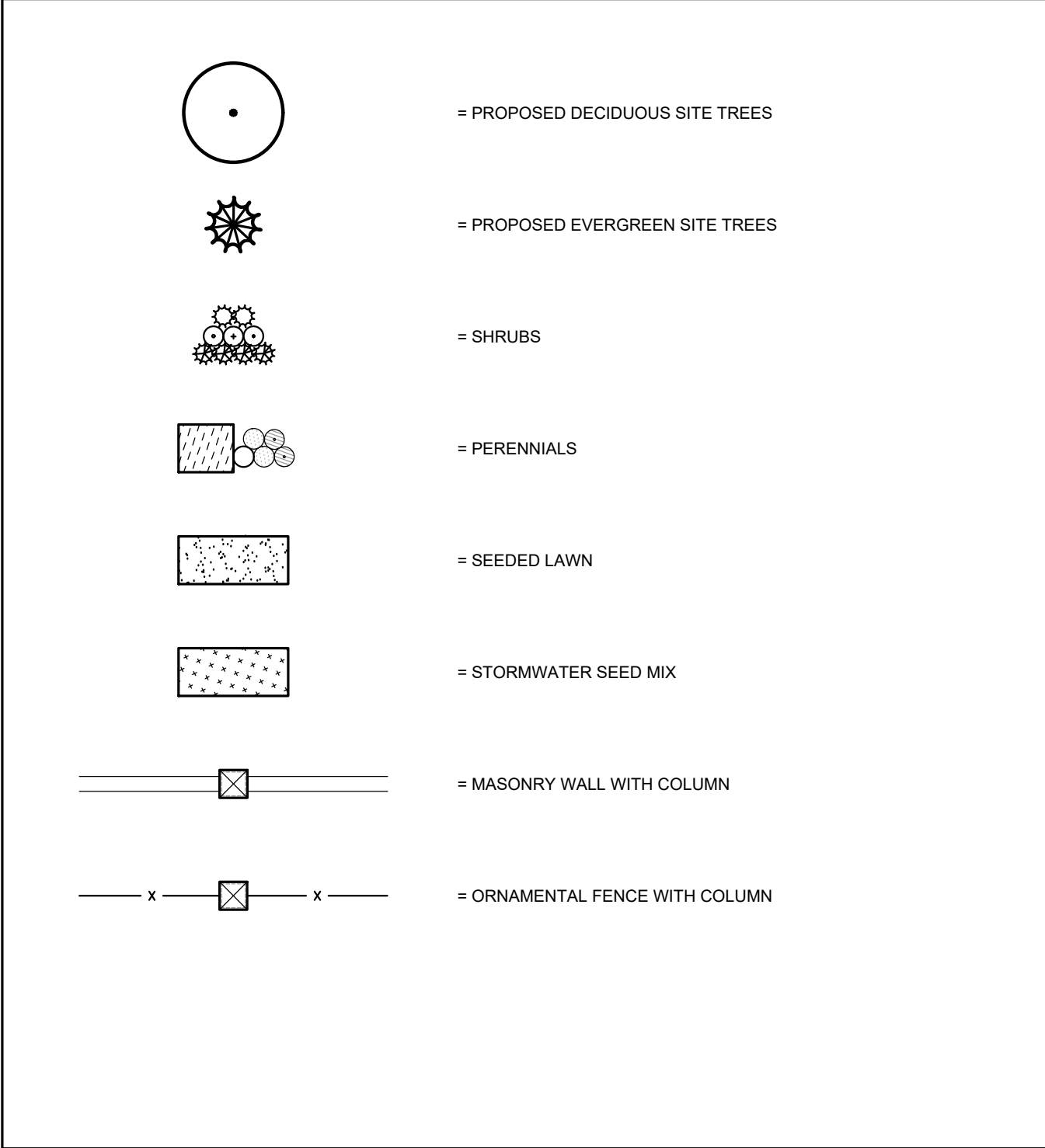
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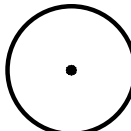
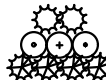


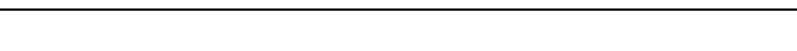
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	= PROPOSED EVERGREEN SITE TREES
	= SHRUBS
	= PERENNIALS
	= SEEDED LAWN
	= STORMWATER SEED MIX
	= MASONRY WALL WITH COLUMN
	= ORNAMENTAL FENCE WITH COLUMN



	= PROPOSED DECIDUOUS SITE TREES
	= PROPOSED EVERGREEN SITE TREES
	= SHRUBS
	= PERENNIALS
	= SEEDED LAWN
	= STORMWATER SEED MIX
	= MASONRY WALL WITH COLUMN
	= ORNAMENTAL FENCE WITH COLUMN

			DESIGNED BY:	B. JENKINS		FREUD PUMP STATION IMPROVEMENTS		 ARCADIS LEGAL ENTITY: ARCADIS OF MICHIGAN, LLC COPYRIGHT: 2021	 GLWA <i>Great Lakes Water Authority</i>	EGLE PERMIT No. P41004061 v. 1	
			DRAWN BY:	K. DIETZEL		GLWA CONTRACT No. 2204605					
			CHECKED BY:	N. BIRMELEN		GLWA CIP No. 232002					
1	CPC SUBMITTAL	07/07/2025	APPROVED BY:	B. JENKINS		DRAWING No. L-02-001					
0	ISSUED FOR BID	05/05/2023									
No.	DESCRIPTIONS/REVISIONS		DATE			LANDSCAPE LEGENDS, SYMBOLS, AND NOTES				SECTION MAP: 0 6 2 D TOWN: G RANGE: SECTION: Q: QQ:	

FREUD PUMP STATION
IMPROVEMENTS

LANDSCAPE LEGENDS, SYMBOLS, AND NOTES



ARCADIS

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ARCADIS OF MICHIGAN, LLC

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PEA GROUP

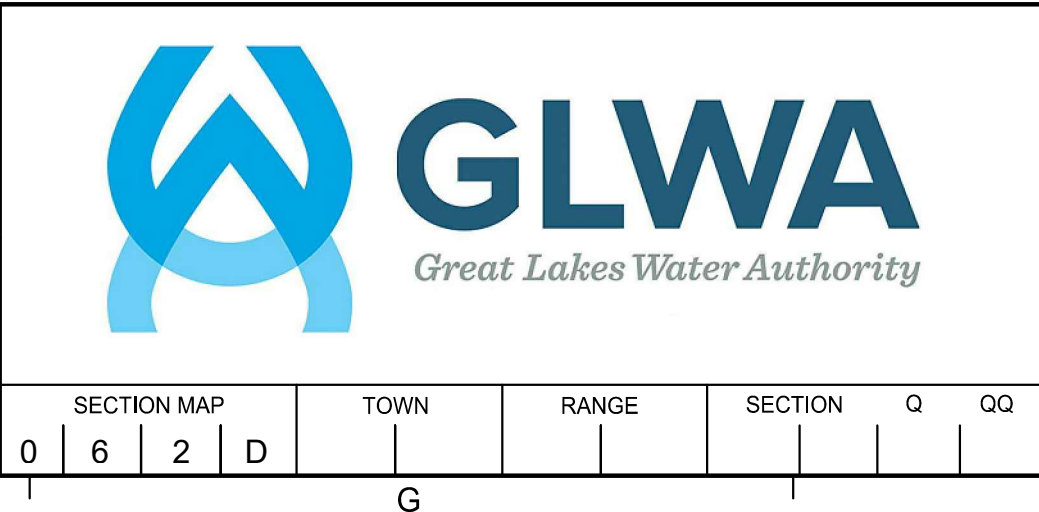


ARCADIS

LEGAL ENTITY:
ARCADIS OF MICHIGAN, LLC

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GLWA
Great Lakes Water Authority

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GLWA
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GLWA
Great Lakes Water Authority

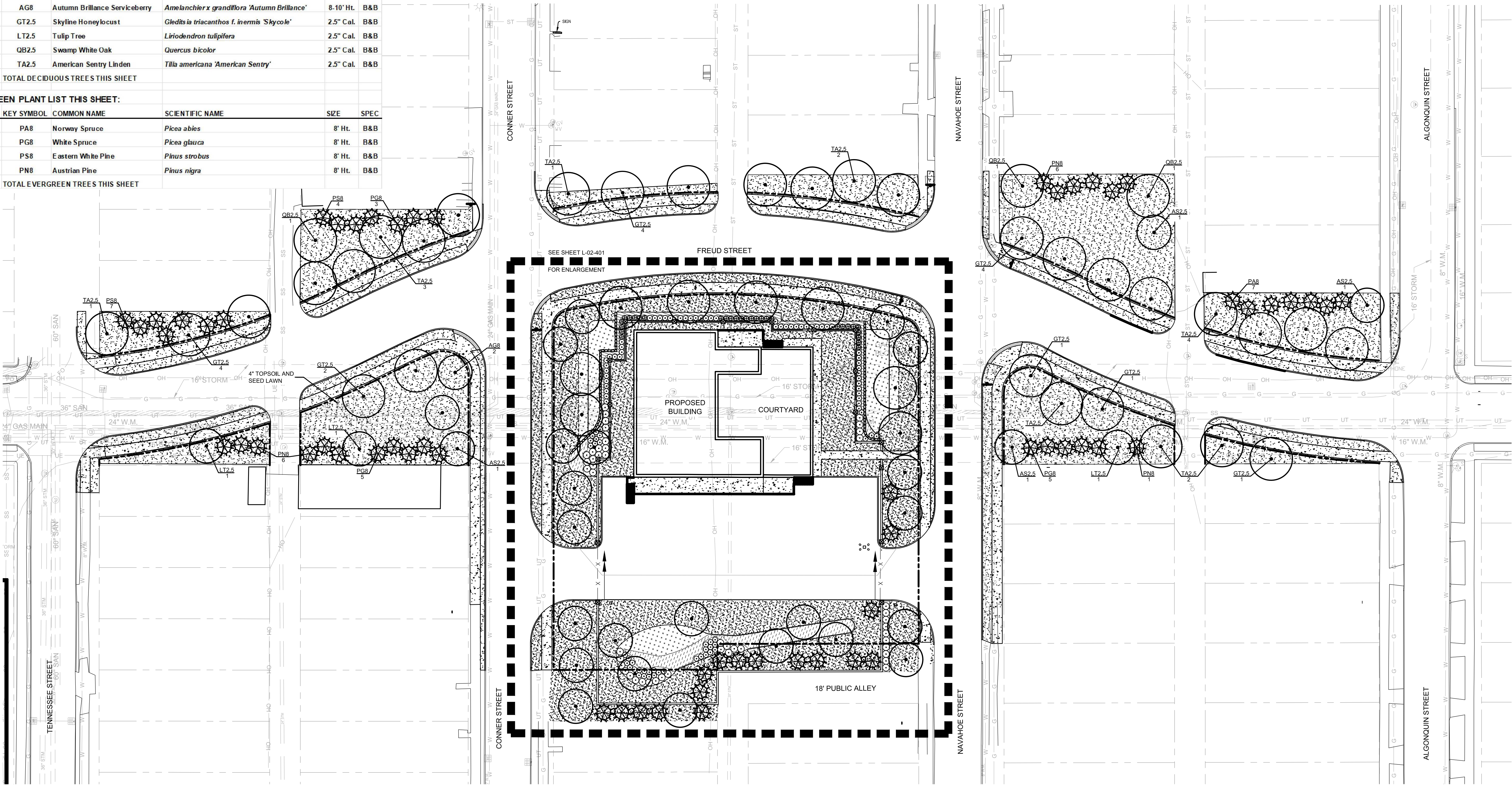
GLWA
Great Lakes Water Authority

GLWA
Great Lakes Water Authority

GLWA
Great Lakes Water Authority

GLWA
Great Lakes Water Authority

DECIDUOUS TREE PLANT LIST THIS SHEET:					
QUANTITY	KEY SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	SPEC
4	AS2.5	Green Mountain Sugar Maple	<i>Acer saccharum</i> 'Green Mountain'	2.5" Cal.	B&B
2	AG8	Autumn Brilliance Serviceberry	<i>Amelanchier x grandiflora</i> 'Autumn Brilliance'	8-10' Ht.	B&B
17	GT2.5	Skyline Honeylocust	<i>Gleditsia triacanthos f. inermis</i> 'Skycole'	2.5" Cal.	B&B
3	LT2.5	Tulip Tree	<i>Liriodendron tulipifera</i>	2.5" Cal.	B&B
3	QB2.5	Swamp White Oak	<i>Quercus bicolor</i>	2.5" Cal.	B&B
14	TA2.5	American Sentry Linden	<i>Tilia americana</i> 'American Sentry'	2.5" Cal.	B&B
43	TOTAL DECIDUOUS TREES THIS SHEET				
EVERGREEN PLANT LIST THIS SHEET:					
QUANTITY	KEY SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	SPEC
7	PA8	Norway Spruce	<i>Picea abies</i>	8' Ht.	B&B
13	PG8	White Spruce	<i>Picea glauca</i>	8' Ht.	B&B
11	PS8	Eastern White Pine	<i>Pinus strobus</i>	8' Ht.	B&B
13	PN8	Austrian Pine	<i>Pinus nigra</i>	8' Ht.	B&B
44	TOTAL EVERGREEN TREES THIS SHEET				



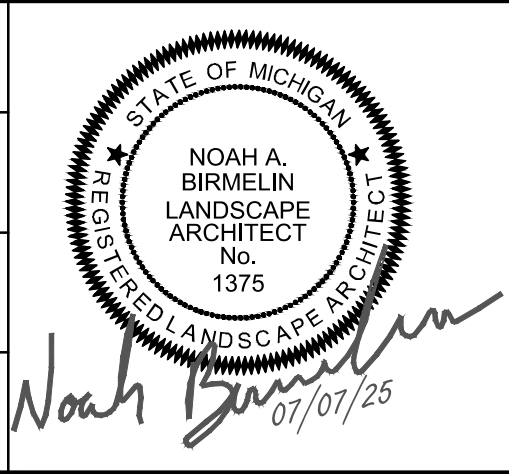
OVERALL LANDSCAPE PLAN

SCALE: 1" = 30'

BASIS OF COORDINATES: CITY OF DETROIT. (CONVERSION FROM CITY OF DETROIT DATUM TO NAVD88: CITY OF DETROIT DATUM + 479.25 = NAVD88)

No.	DESCRIPTIONS/REVISIONS	DATE
1	CPC SUBMITTAL	07/07/2025
0	ISSUED FOR BID	05/05/2023

DESIGNED BY:	B. JENKINS
DRAWN BY:	K. DIETZEL
CHECKED BY:	N. BIRMELIN
APPROVED BY:	B. JENKINS



FREUD PUMP STATION IMPROVEMENTS

OVERALL LANDSCAPE PLAN

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GLWA
Great Lakes Water Authority

SECTION MAP: 0 6 2 D

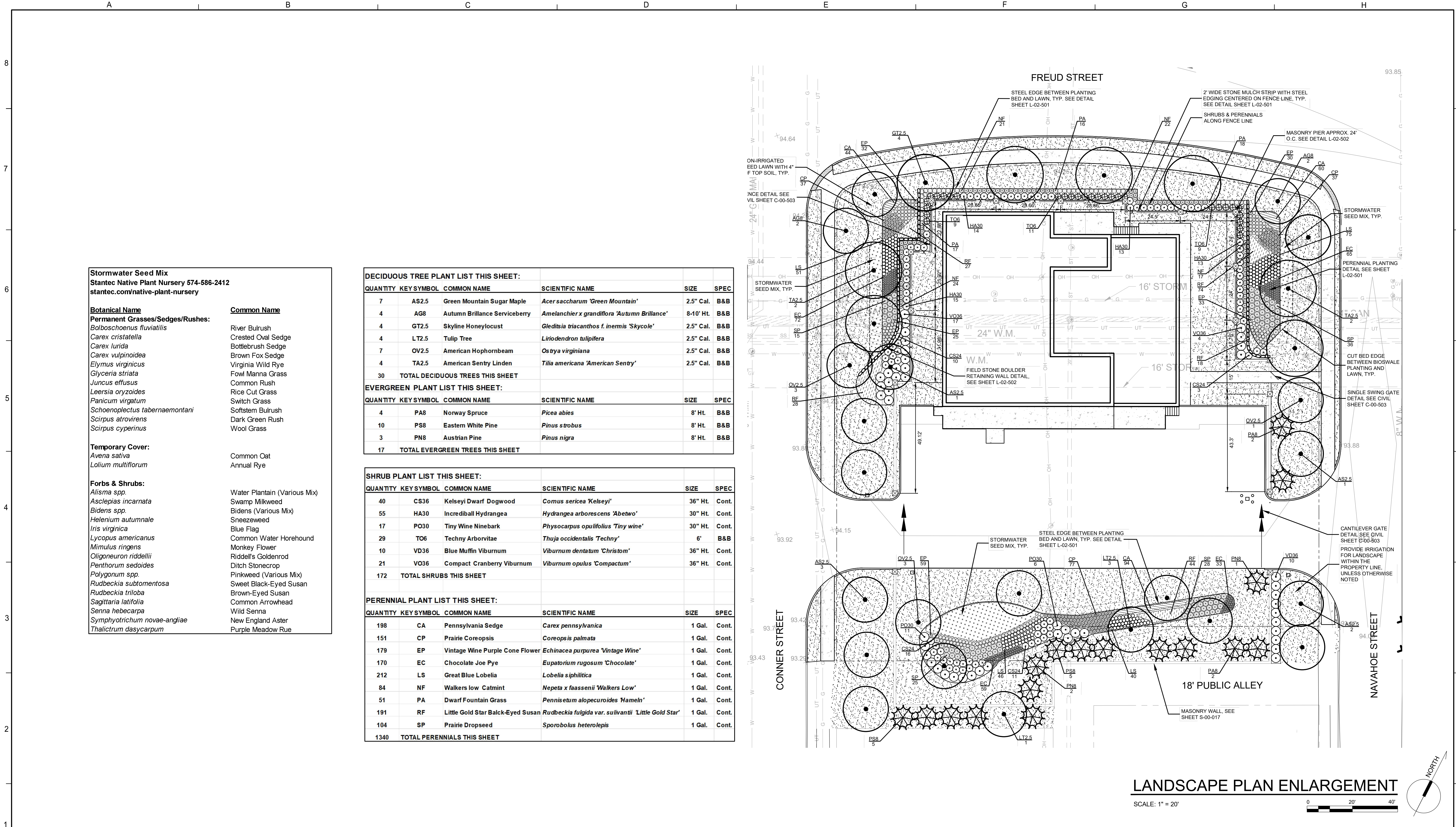
TOWN: G

RANGE:

SECTION: Q

QQ:

EGLE PERMIT No.	P41004061 v. 1
GLWA CONTRACT No.	2204605
GLWA CIP No.	232002
DRAWING No.	L-02-101



1

CPC SUBMITTAL

07/07/2025

0

ISSUED FOR BID

05/05/2023

No.

DESCRIPTIONS/REVISIONS

DATE

DESIGNED BY:

B. JENKINS

DRAWN BY:

K. DIETZEL

CHECKED BY:

N. BIRMELEN

APPROVED BY:

B. JENKINS

STATE OF MICHIGAN

NOAH A. BIRMELEN

LANDSCAPE ARCHITECT

No. 1375

07/07/25

FREUD PUMP STATION

IMPROVEMENTS

LANDSCAPE PLAN ENLARGEMENT

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Great Lakes Water Authority

SECTION MAP

TOWN

RANGE

SECTION

Q

QQ

0

6

2

D

G

EGL PERMIT No.

P41004061 v. 1

GLWA CONTRACT No.

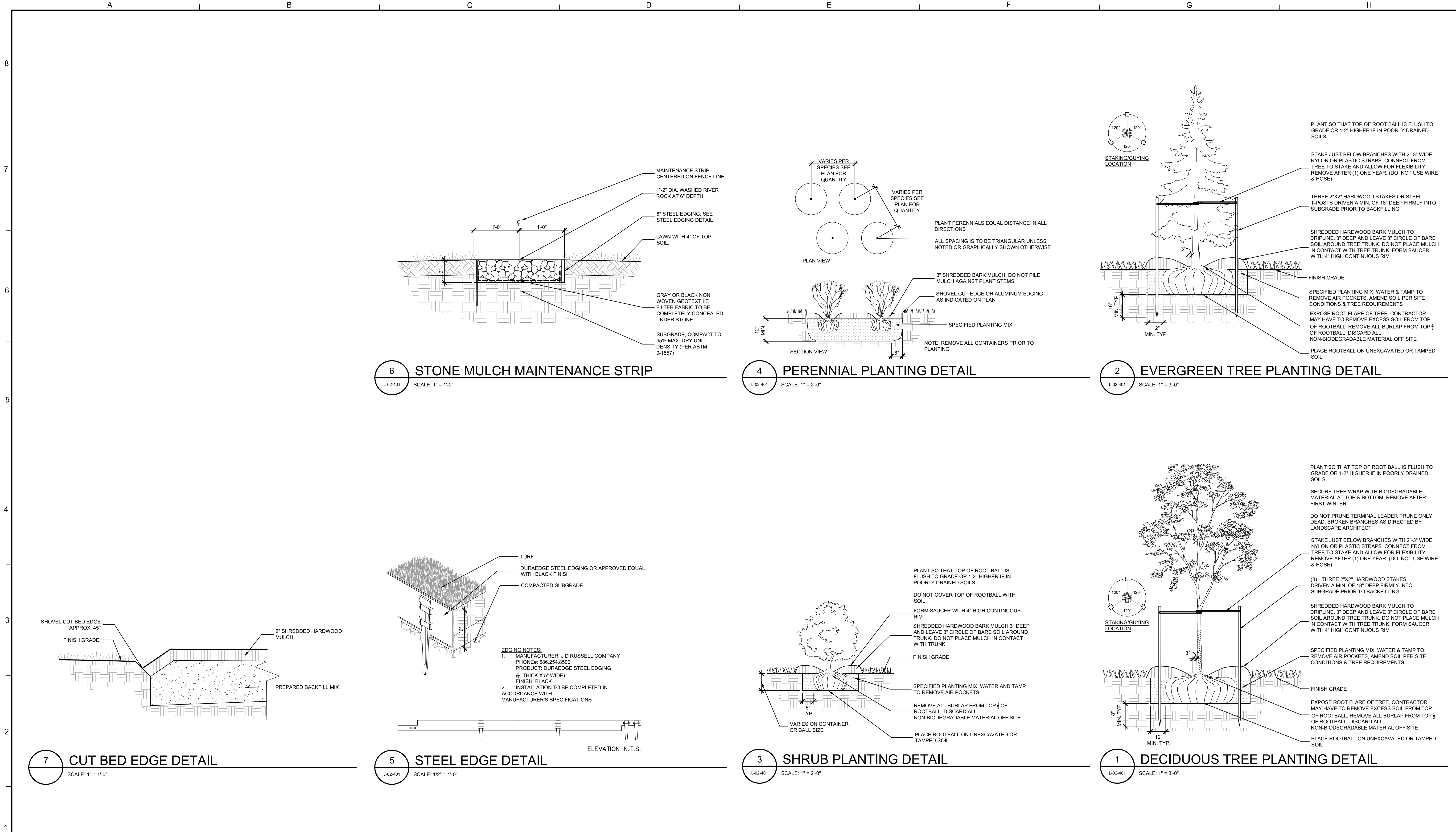
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GLWA CIP No.

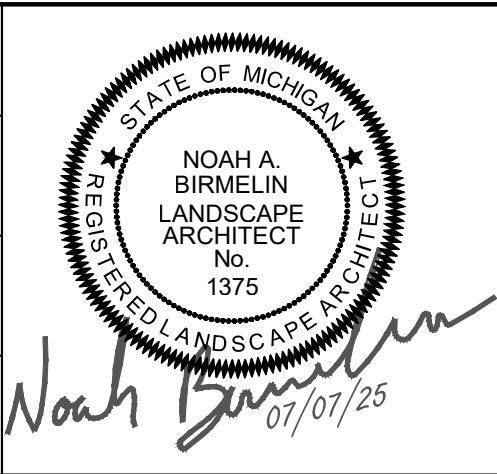
232002

DRAWING No.

L-02-401



			DESIGNED BY:
			B. JENKINS
			DRAWN BY:
			K. DIETZEL
			CHECKED BY:
			N. BIRMELIN
1	CPC SUBMITTAL	07/07/2025	APPROVED BY:
0	ISSUED FOR BID	05/05/2023	B. JENKINS
No.	DESCRIPTIONS/REVISIONS	DATE	



FREUD PUMP STATION IMPROVEMENTS

LANDSCAPE DETAILS

ARCADIS

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GLWA
Great Lakes Water Authority

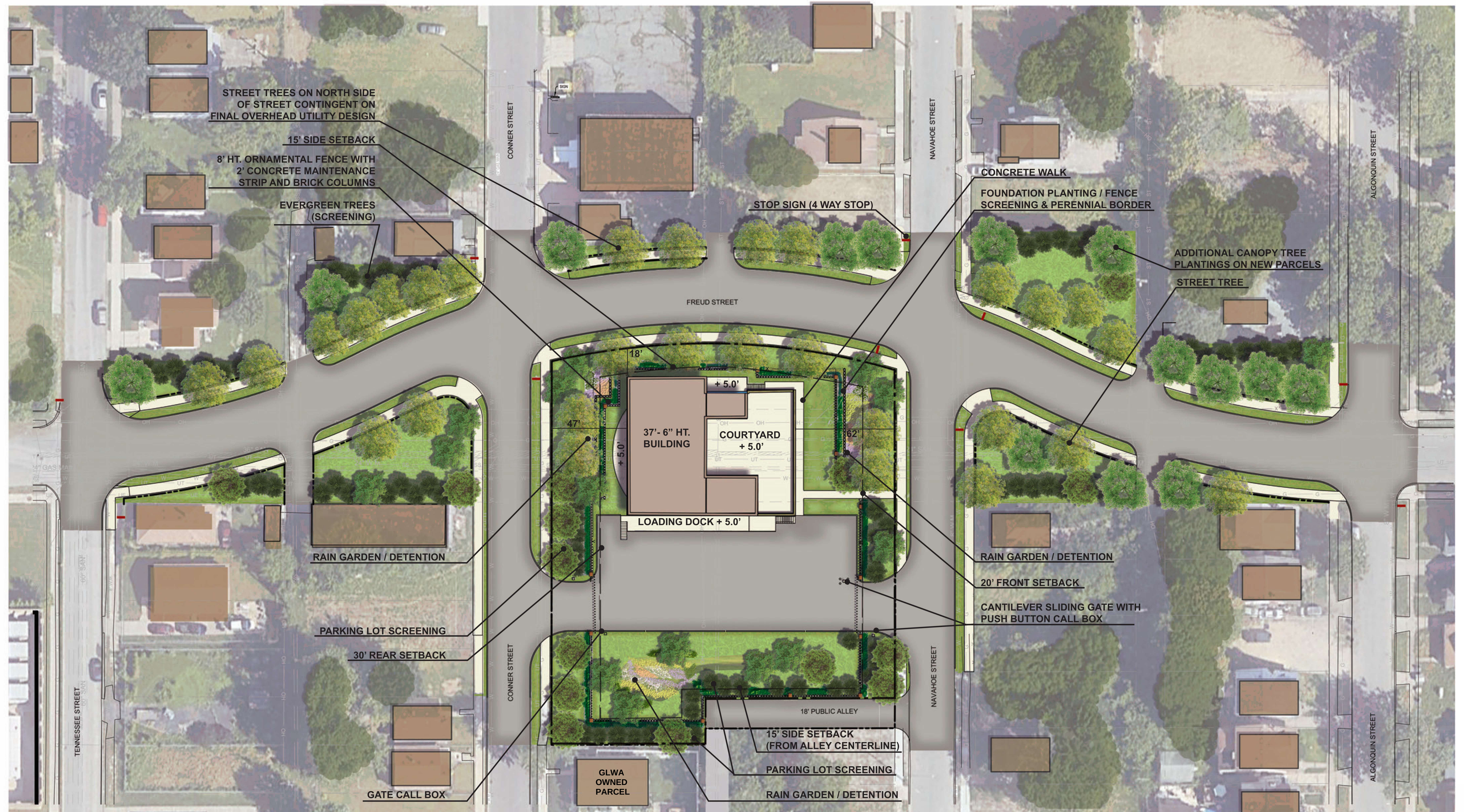
EGLE PERMIT No. P41004061 v. 1

GLWA CONTRACT No. 2204605

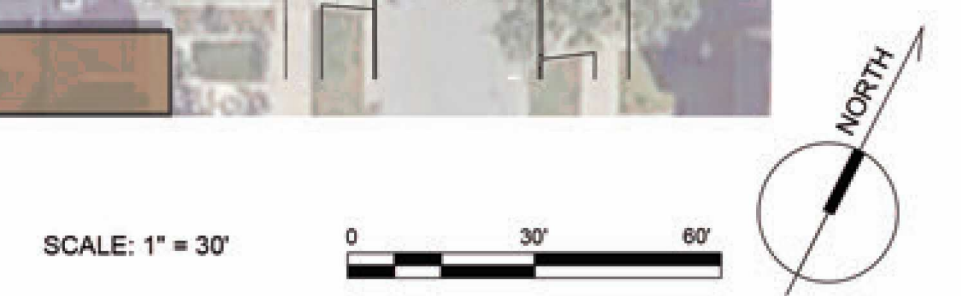
GLWA CIP No. 232002

DRAWING No. L-02-501

SECTION MAP	TOWN	RANGE	SECTION	Q	QQ
0 6 2 D	G				



Freud Sanitary Pump Station
Site Plan

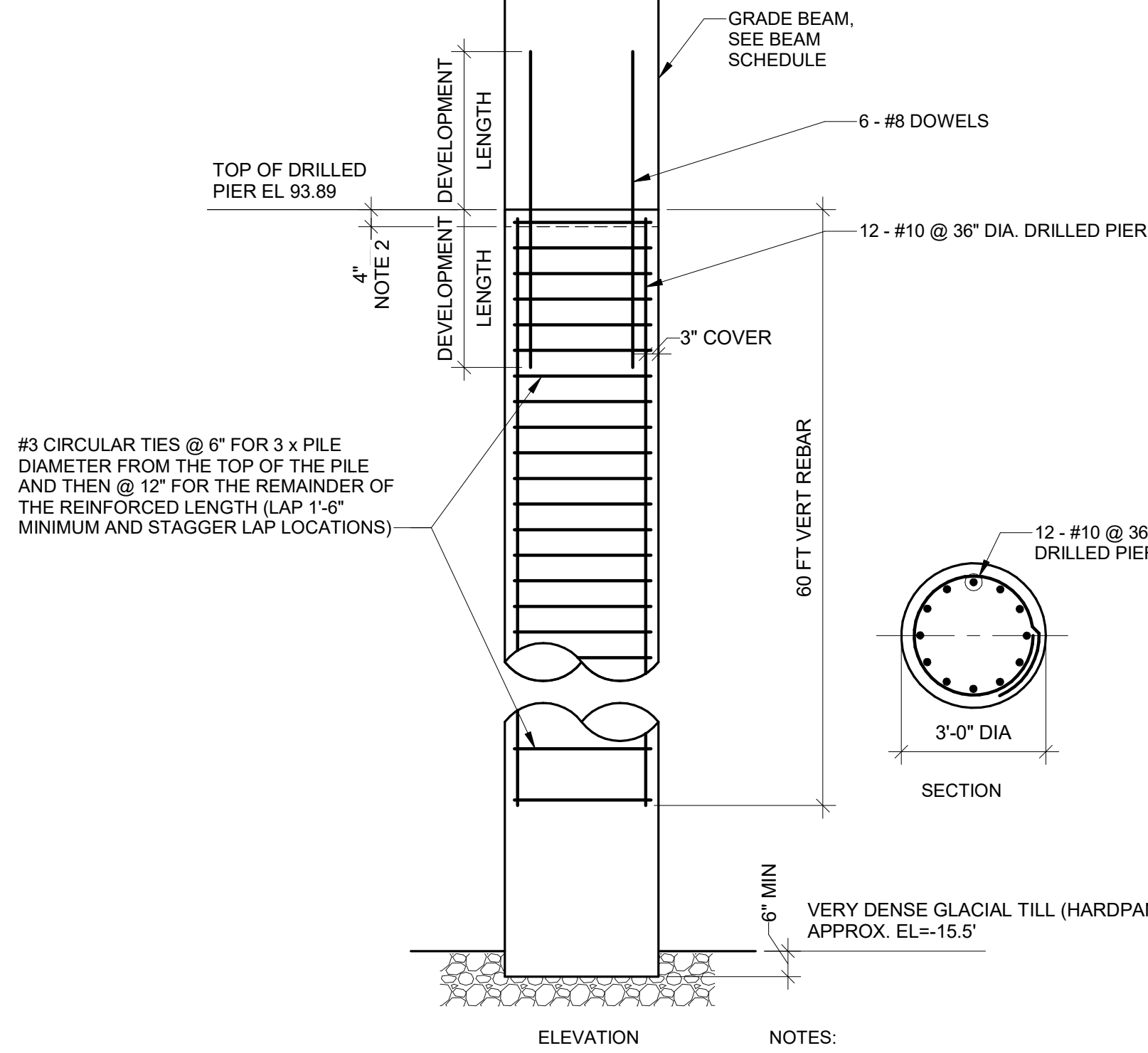


PLOT DATE: 5/6/2023 10:03:06 AM

PATH: Autodesk Docs://ANA - 30047523 - Detroit MI - FPS Rehabilitation/S-3D-FPS_R20.rvt

1 FOUNDATION - DRILLED PIERS

NOT TO SCALE

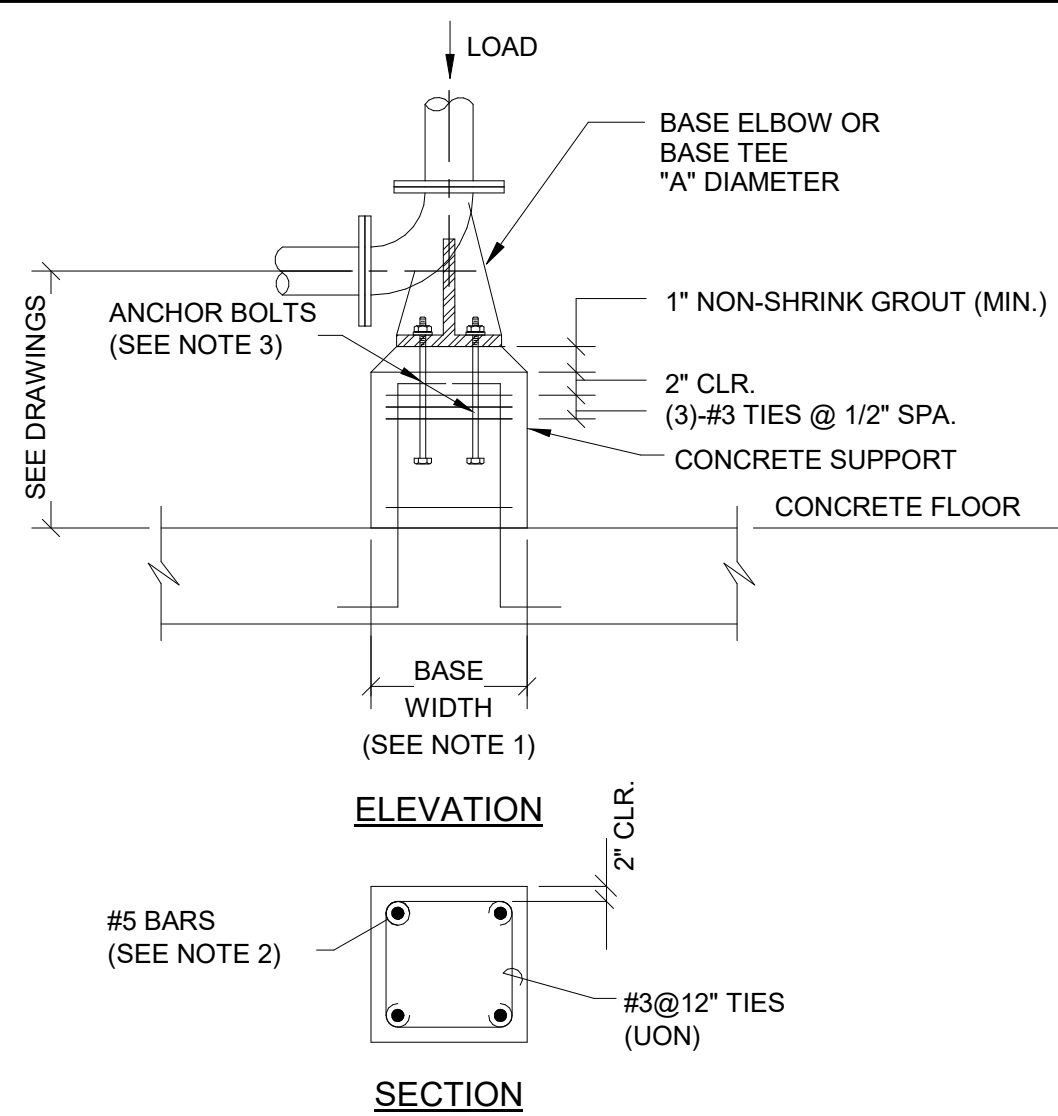


NOTES:

- INSTALLATION TOLERANCE:
PILE CENTER (PLAN): +3"
PLUMB: +2 PERCENT
PILE TOP: +2"
- DEEPEN CONCRETE ELEMENT AS REQUIRED TO ACHIEVE MINIMUM 6" EMBEDMENT INTO VERY DENSE GLACIAL TILL (HARDPAN).
- PILE TOP SHALL BE CUT BACK TO SOUND MATERIAL.
- DEEP PILE DESIGN LOADS (UNFACTORED LOAD)
MAXIMUM PILE LOAD AT SINGLE PILE (36" DIA DRILLED PIERS)
VERTICAL COMPRESSIVE LOAD (KIPS) = 591 KIPS
LATERAL LOAD (KIPS) = 32 KIPS

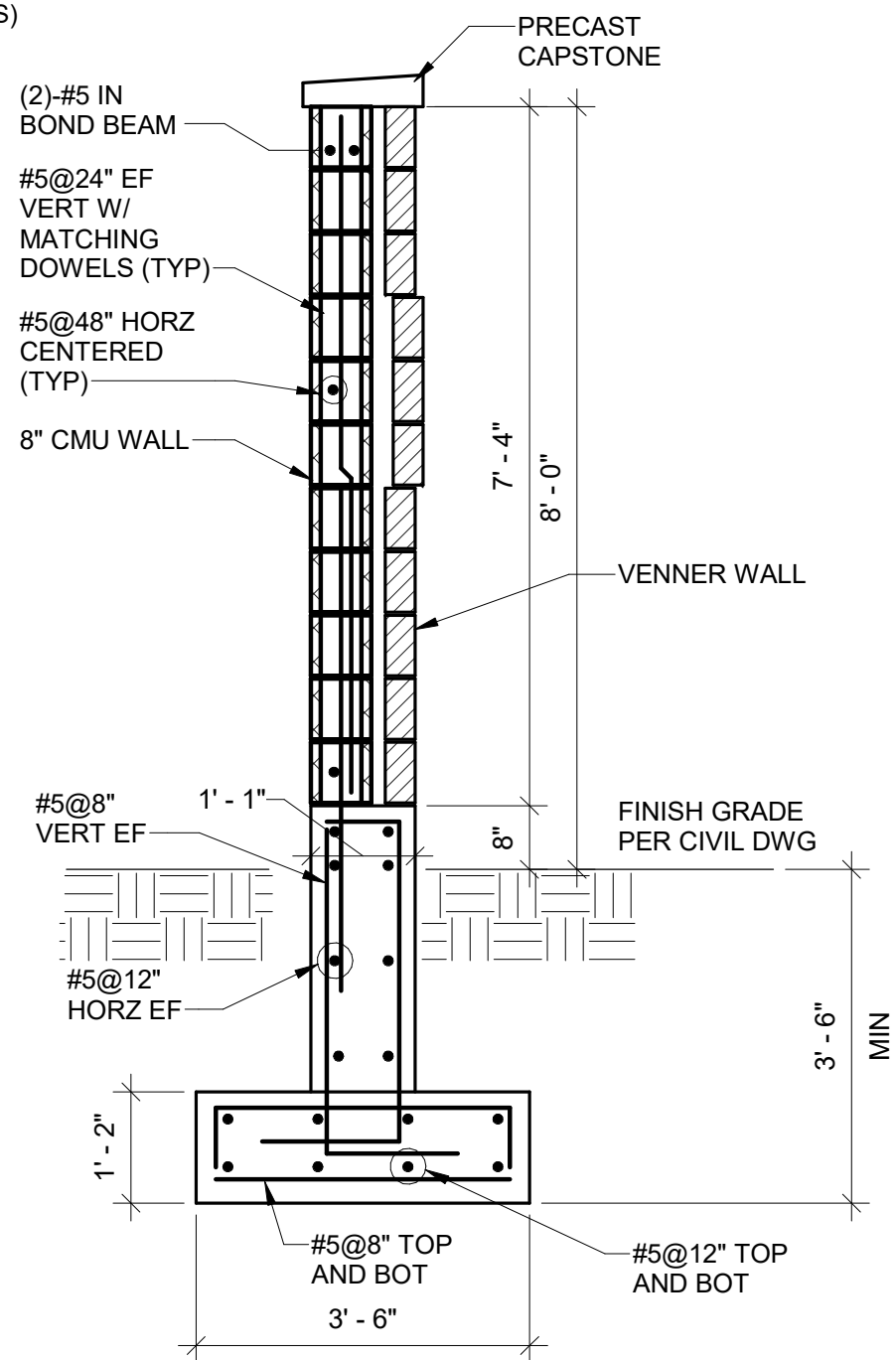
2 CONCRETE PEDESTAL DETAIL

NOT TO SCALE



NOTES:

- BASE WIDTH SHALL BE A MINIMUM OF BASE ELBOW OR BASE TEE WIDTH PLUS 2 INCHES ON ALL SIDES OR A WIDTH TO PROVIDE A MINIMUM EDGE DISTANCE OF 5 INCHES ON ALL ANCHOR BOLTS.
- PROVIDE #5 REINFORCING BARS EQUALLY DISTRIBUTED ON ALL FACES OF SUPPORT PEDESTAL. PROVIDE:
8-#5 BARS FOR A BASE WIDTH LESS THAN 16 INCHES.
8-#6 BARS FOR A BASE WIDTH OF 16 INCHES BUT NOT LESS THAN 20 INCHES.
8-#7 BARS FOR A BASE WIDTH OF 20 INCHES OR GREATER
- GALV ANCHOR BOLT "B" DIA WITH TWO NUTS AND ONE LOCKWASHER. PROVIDE BAR 4x1/2x4" WELDED TO BOLT (TYP OF 4).



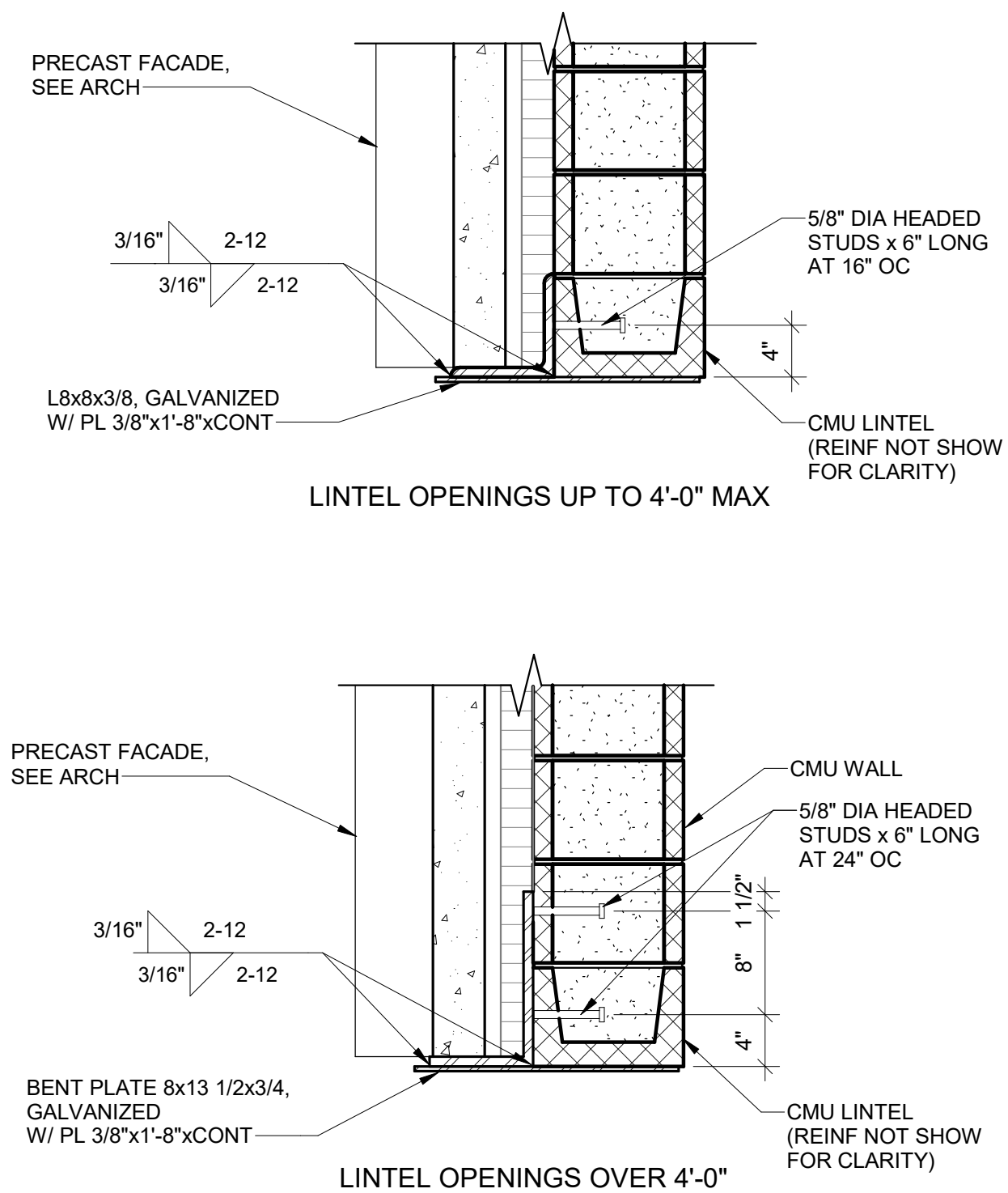
4 CMU WALL FENCE

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

DIMENSIONS IN INCHES		WT LIMIT
"A"	"B"	KIP
4	5/8	9
6	5/8	10.5
8	5/8	13.5
10	5/8	13.5
12	3/4	16.5
14	3/4	16.5
16	3/4	16.5
18	3/4	20.3
20	3/4	20.3
24	3/4	20.3
30	7/8	24
36	7/8	28.5
42	1	35.3
48	1 1/8	37.5

3 MASONRY LINTEL

NOT TO SCALE



FREUD PUMP STATION IMPROVEMENTS

STANDARD DETAILS 13

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ARCADIS U.S., INC.

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Brown and Caldwell



EGLE PERMIT No.
P41004061 v. 1

GLWA CONTRACT No.

2204605

GLWA CIP No.

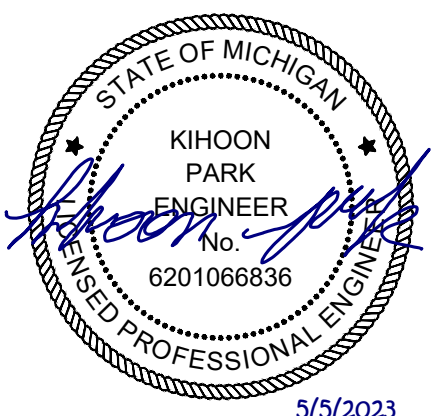
232002

DRAWING No.

S-00-017

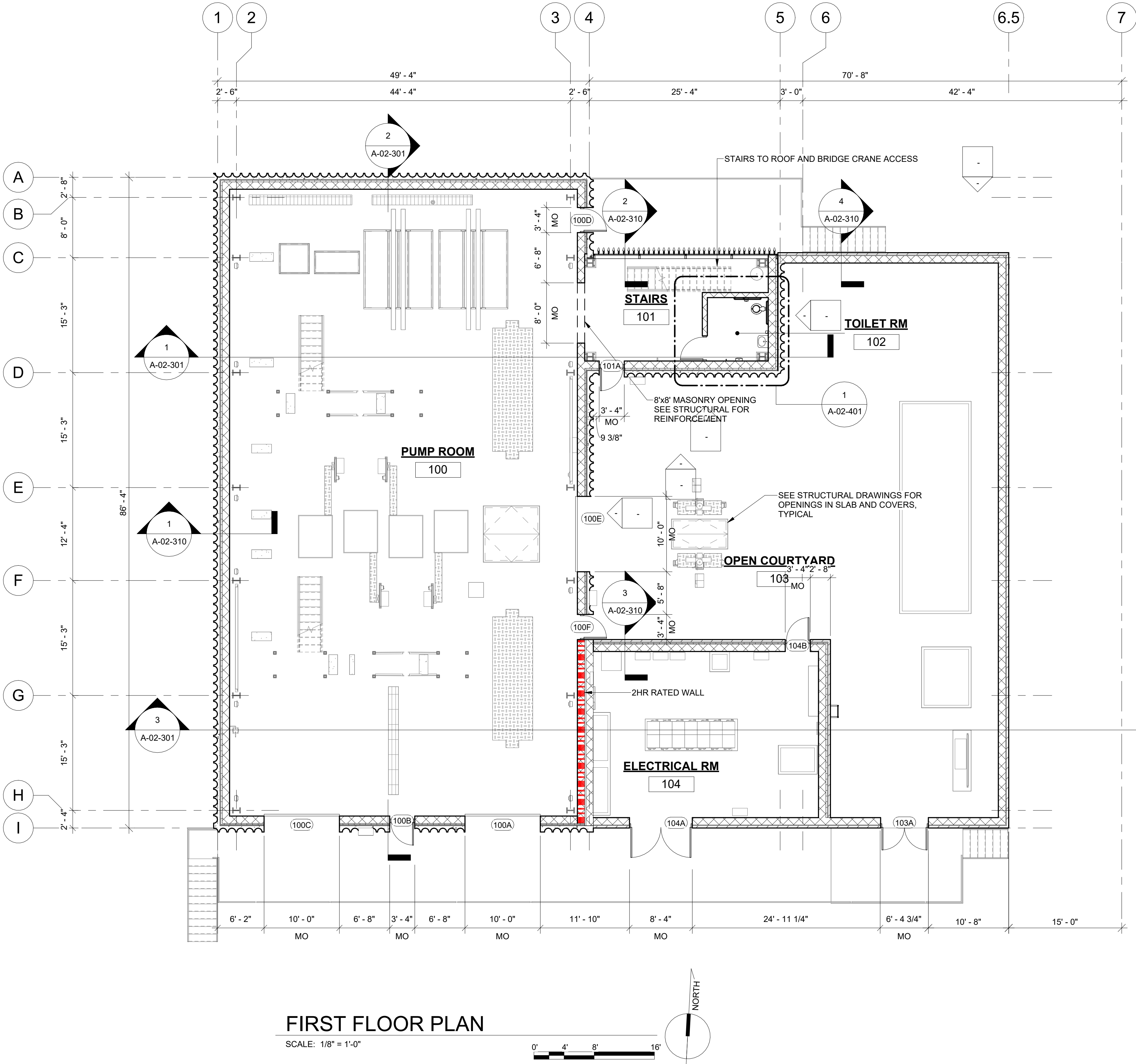
No.	ISSUED FOR BID	05/05/2023
No.	DESCRIPTIONS/REVISIONS	DATE

DESIGNED BY:	K. PARK
DRAWN BY:	K. PARK
CHECKED BY:	C. NUTT
APPROVED BY:	J. O'NEILL



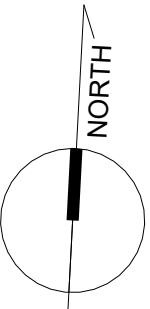
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PATH: C:\Users\cdellam0294\OneDrive - ARCADIS\DE000775.1203 - Corner and Freud Pump Stations - Documents\Drawing\Freud PS\Detroit CPC Approval\ARCH RVT MODEL JULY 2025\A-3D\ISO_R23A-3D\ISO_R23_detached.rvt



FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"



BASIS OF COORDINATES: CITY OF DETROIT. (CONVERSION FROM CITY OF DETROIT DATUM TO NAVD88: CITY OF DETROIT DATUM + 479.25 = NAVD88)

FREUD PUMP STATION
IMPROVEMENTS

FIRST FLOOR PLAN



LEGAL ENTITY:
ARCADIS OF MICHIGAN, LLC

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EGLE PERMIT No.	P41004061 v. 1
GLWA CONTRACT No.	2204605
GLWA CIP No.	232002
DRAWING No.	A-02-101

No.	ISSUED FOR BID	05/05/2023
	DESCRIPTIONS/REVISIONS	DATE

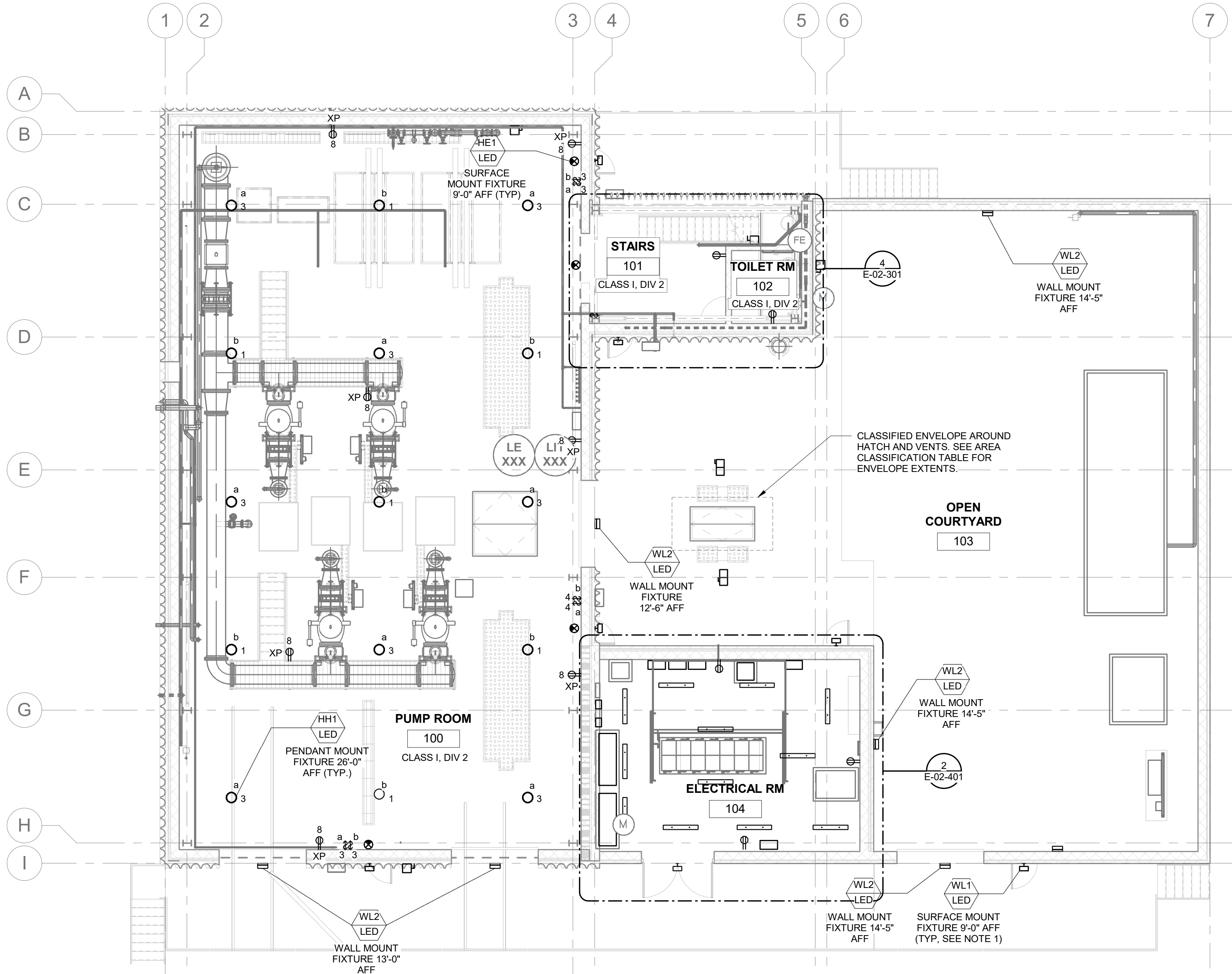
DESIGNED BY:	R. SMALLWOOD
DRAWN BY:	R. MOWERY
CHECKED BY:	D. LANNING
APPROVED BY:	J. SWARTZ

SECTION MAP	TOWN	RANGE	SECTION	Q	QQ
0 6 2 D	G				

[illegible]

PLOT DATE: 5/9/2023 2:00:04 PM

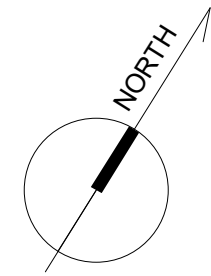
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FIRST FLOOR - LIGHTING PLAN AT ELEV.

101.00

SCALE: 1/8" = 1'-0"



NOTES:

1. WALL PACK LIGHT FIXTURES AND BOXES MOUNTED ON THE ARCHITECTURAL FACADE SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. IF NO RECOMMENDATIONS ARE AVAILABLE THEN ANCHOR A FABRICATED PIECE OF TYPE 316 STAINLESS STEEL METAL ON THE FACADE THAT SPANS THE CURVATURE OF THE FACADE. MOUNT FIXTURES AND BOXES TO SHEET METAL WITH STAINLESS STEEL SUPPORTS. PROVIDE THE QUANTITY AND SIZE OF CORES AND OPENINGS THROUGH THE FACADE AND METAL AS REQUIRED FOR CABLE AND CONDUIT TO THE DEVICE.

BASIS OF COORDINATES: CITY OF DETROIT. (CONVERSION FROM CITY OF DETROIT DATUM TO NAVD88: CITY OF DETROIT DATUM + 479.25 = NAVD88)

No.	DESCRIPTIONS/REVISIONS	DATE

DESIGNED BY:	G. SMITH
DRAWN BY:	G. SMITH
CHECKED BY:	T. ARMSTRONG
APPROVED BY:	T. ARMSTRONG



FREUD PUMP STATION IMPROVEMENTS
FIRST FLOOR LIGHTING PLAN

	LEGAL ENTITY: ARCADIS OF MICHIGAN, LLC	COPYRIGHT: 2021
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	SECTION MAP	TOWN	RANGE	SECTION	Q	QQ
	0 6 2 D					

EGLE PERMIT No.	P41004061 v. 1
GLWA CONTRACT No.	2204605
GLWA CIP No.	232002
DRAWING No.	E-02-103

CONNER STREET

VIEW



FREUD STREET

VIEW

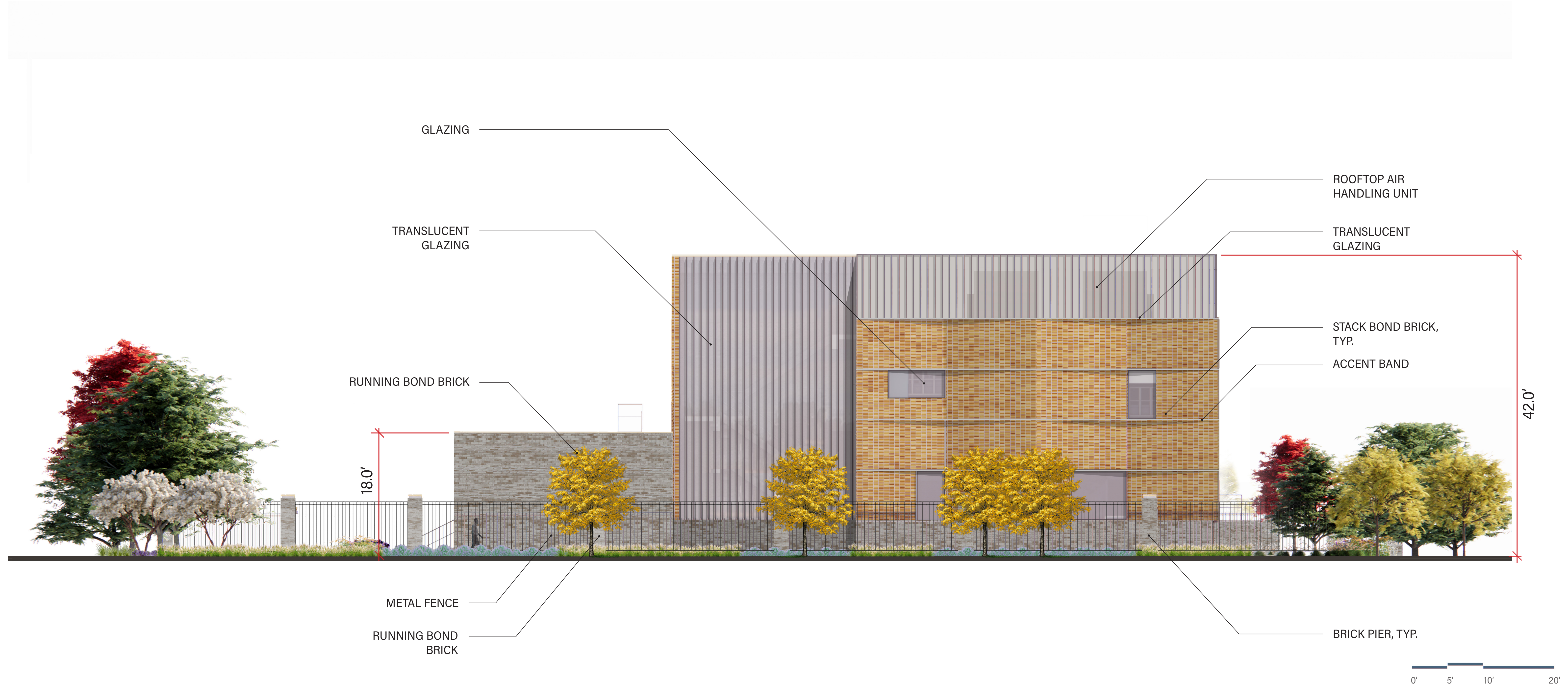


NAVAHOE & FREUD

VIEW



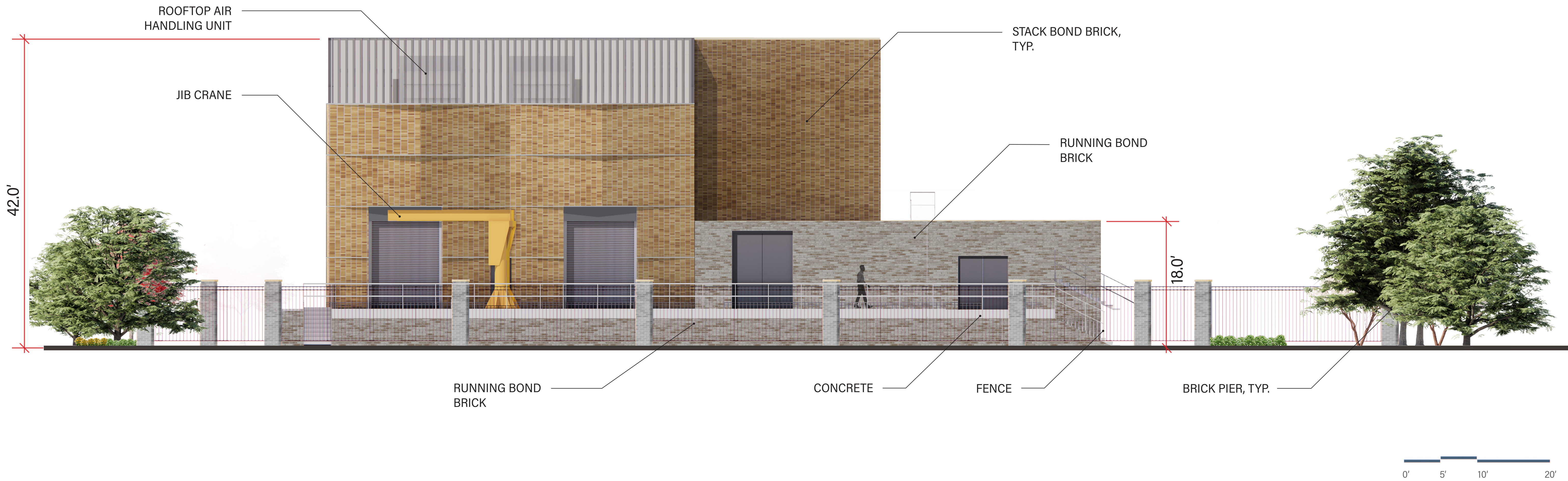
NORTH ELEVATION



WEST ELEVATION

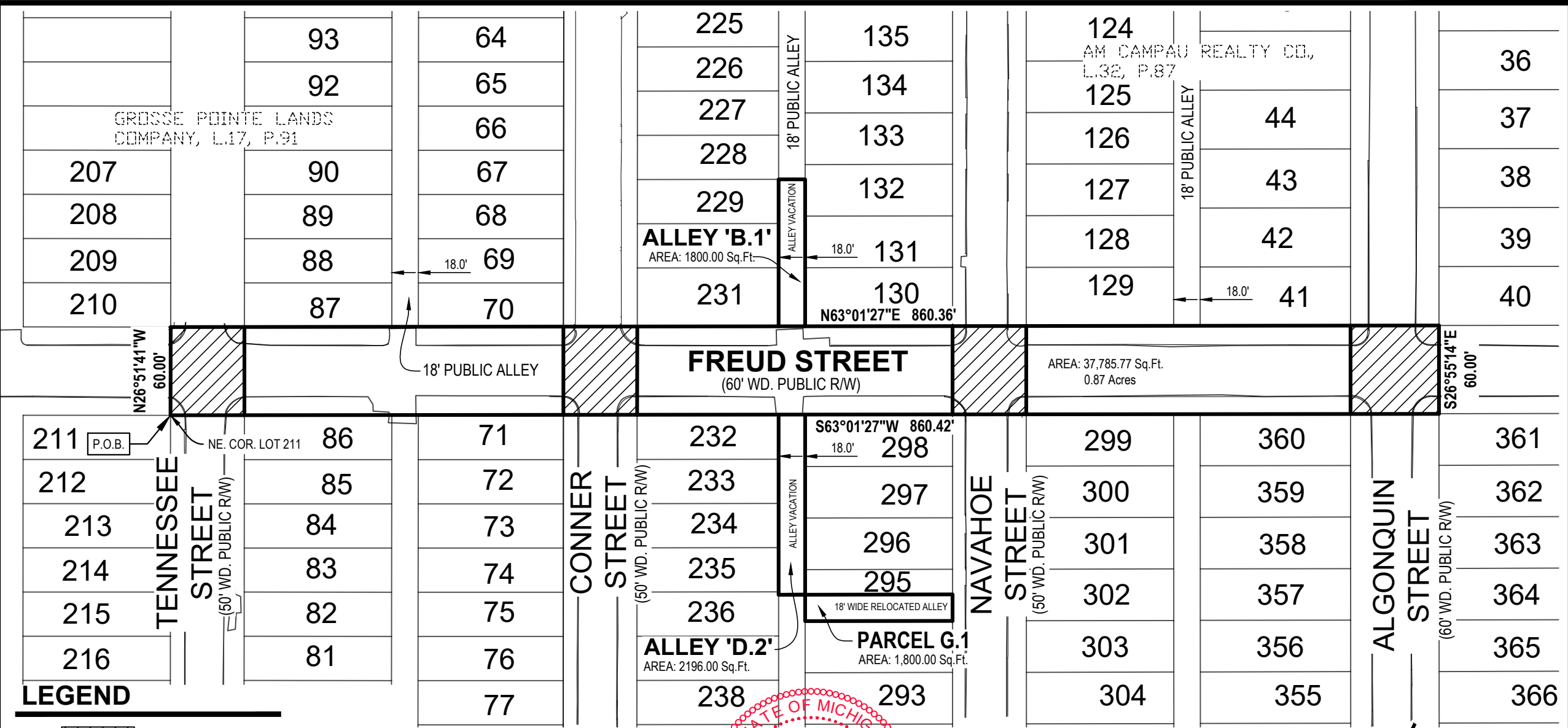


SOUTH ELEVATION



EAST ELEVATION





LEGEND

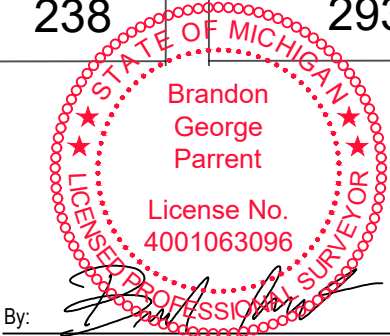
Right-of-Way Exception

CERTIFICATE OF SURVEY

This survey was made from the legal description shown above. The description should be compared with the Abstract of Title or Title Policy for accuracy, easements and exceptions.

SURVEYOR'S CERTIFICATE:

I certify that the requirements for 1970 PA 132, MCL 54.213 have been met. The relative positional precision of the corners identified for this survey and shown on the map are within the limits accepted by the practice of professional surveying.



By: Brandon G. Parrent Licensed Professional Surveyor No. 4001063096

SCALE: 1" = 80'

0' 40' 80'

NORTH

ARCADIS U.S., Inc.
Fredrick Simmons
One Seagate Center, Suite 700
Toledo, OH 43604

GLWA Freud Pump Station, Contract# GLWA-CS-120

DRAWN BY: RP DATE: 04.29.22
REV. BY: RP REV. DATE: 01.05.23
REV.: Revise alleys being vacated

PRJ #: 20500038DSC2.2

1 OF 2

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Ann Arbor
3037 Miller Rd.
Ann Arbor, MI 48103

Chicago, Columbus, Grand Rapids,
Holland, Indianapolis, St. Louis

FREUD STREET VACATION DESCRIPTION

Part of Grosse Pointe Lands Company Subdivision, being part of Private Claim 388, City of Detroit, Wayne County, Michigan, as recorded in Liber 27, Page 91, Wayne County Records, and part of AM Campau Realty Co., being part of Private Claim 322, City of Detroit, Wayne County, Michigan, as recorded in Liber 32, Page 87, Wayne County Records, described as: Commencing at the Northeast corner of Lot 211 of said Grosse Pointe Lands Company Subdivision for a Point of Beginning; thence N26°51'41"W 60.00 feet; thence N63°01'27"E 860.36 feet; thence S26°55'14"E 60.00 feet; thence S63°01'27"W 860.42 feet to the Point of Beginning. Excepting right-of-way of the Platted street crossings of Tennessee Street, Conner Street, Navahoe Street, and Algonquin street. Contains 0.87 acres.

ALLEY VACATION DESCRIPTIONS

ALLEY 'B.1' VACATION DESCRIPTION: Part of AM Campau Realty Co., being part of Private Claim 322, City of Detroit, Wayne County, Michigan, as recorded in Liber 32, Page 87, Wayne County Records, described as: 18 foot public alley adjacent to Lots 229, 230, and 231 of said AM Campau Realty Co.. Contains 1800.00 square feet.

ALLEY 'D.2' VACATION DESCRIPTION: Part of AM Campau Realty Co., being part of Private Claim 322, City of Detroit, Wayne County, Michigan, as recorded in Liber 32, Page 87, Wayne County Records, described as: 18 foot public alley adjacent to Lots 296, 297, and 298, and the West 17 feet of Lot 295 of said AM Campau Realty Co.. Contains 2196.00 square feet.

PARCEL G.1 DESCRIPTION (18' WIDE RELOCATED ALLEY): Part of Lot 295, AM Campau Realty Co., being part of Private Claim 322, City of Detroit, Wayne County, Michigan, as recorded in Liber 32, Page 87, Wayne County Records, described as: Commencing at the Northeast corner of said Lot 295 as a Point of Beginning; thence S62°58'46"W 100.00 feet along the East line of said Lot 295; thence N26°55'14"W 18.00 feet along the South line of said Lot 295; thence N62°58'46"E 100.00 feet along the North line of said Lot 295; thence S26°55'14"E 18.00 feet along the East line of said Lot 295 to the Point of Beginning. Contains 1800.00 square feet. Subject to any and all easements, restrictions, right-of-way of record.

Pursuant to the alley rights per A.M. Campau Realty Company, Subdivision of part of the Lafferty Farm, P.C. 322, lying Southerly of Jefferson Avenue, conforming to the general plan of the City.

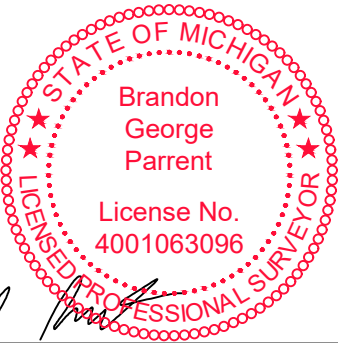
BASIS OF BEARING: NAD83 Michigan State Planes, South Zone, International Foot

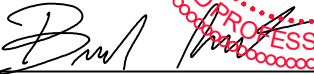
CERTIFICATE OF SURVEY

This survey was made from the legal description shown above. The description should be compared with the Abstract of Title or Title Policy for accuracy, easements and exceptions.

SURVEYOR'S CERTIFICATE:

I certify that the requirements for 1970 PA 132, MCL 54.213 have been met. The relative positional precision of the corners identified for this survey and shown on the map are within the limits accepted by the practice of professional surveying.



By: 
Brandon G. Parrent Licensed Professional Surveyor No. 4001063096

NO SCALE

ARCADIS U.S., Inc. Fredrick Simmons One Seagate Center, Suite 700 Toledo, OH 43604			 NORTH
GLWA Freud Pump Station, Contract# GLWA-CS-120			
DRAWN BY: RP REV. BY: RP REV.: Revise alleys being vacated	DATE: 04.29.22 REV. DATE: 01.05.23	PRJ #: 20500038DSC2.2	 NEDERVELD www.nederveld.com • 800.222.1868 Ann Arbor 3037 Miller Rd. Ann Arbor, MI 48103 Chicago, Columbus, Grand Rapids, Holland, Indianapolis, St. Louis
2 OF 2			

TENNESSEE STREET
(50' WD. PUBLIC R/W)

SW. COR. LOT 87
PARCEL 'A'

N26°51'41"W
26.81'

PARCEL A
AREA: 1652.50 Sq.Ft.

L=103.32'
R=425.40'
I=013°54'57"
CHD=S49°07'53"W
CHD=103.06'

N26°51'41"W
2.79'

SW. COR. LOT 86
PARCEL 'F'

86

GROSSE POINTE LANDS
COMPANY, L17, P.91

89

88

N63°06'19"E 100.00'

L=26.50'
R=425.40'
I=003°34'10"
CHD=S37°46'07"W
CHD=26.50'

S26°51'41"E
1.93'

18' PUBLIC ALLEY

REALIGNED FREUD STREET

L=179.57'
R=485.61'
I=021°11'13"
CHD=N46°22'07"E
CHD=178.55'

PARCEL F
AREA: 6825.08 Sq.Ft.

S63°06'19"W 216.45'

GROSSE POINTE LANDS
COMPANY, L17, P.91

71

PARCEL A1
AREA: 3162.88 Sq.Ft.

68

69

70

FREUD STREET
(60' WD. PUBLIC R/W)

L=80.68'
R=485.12'
I=009°31'42"
CHD=S40°44'53"W
CHD=80.58'

L=49.66'
R=425.12'
I=006°41'35"
CHD=N39°34'37"E
CHD=49.63'

N63°06'19"E 98.45'

NW. COR. LOT 68
PARCEL 'A1'

S26°51'41"E
12.57'

S26°51'41"E 74.02'

CONNER STREET
(50' WD. PUBLIC R/W)

N26°51'41"W
9.71'

LEGEND

● Iron - Set

SCALE: 1" = 30'

0' 15' 30'



NORTH

ARCADIS U.S., Inc.
Fredrick Simmons
One Seagate Center, Suite 700
Toledo, OH 43604

GLWA Freud Pump Station, Contract# GLWA-CS-120

DRAWN BY: RP
REV. BY: RP
REV.: Remove Parcel H

DATE: 04.29.22
REV. DATE: 01.06.23

PRJ #: 20500038DSC.3

1 OF 9

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CERTIFICATE OF SURVEY

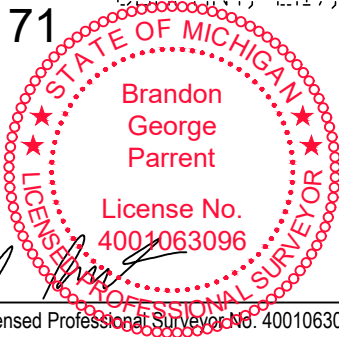
This survey was made from the legal description shown above. The description should be compared with the Abstract of Title or Title Policy for accuracy, easements and exceptions.

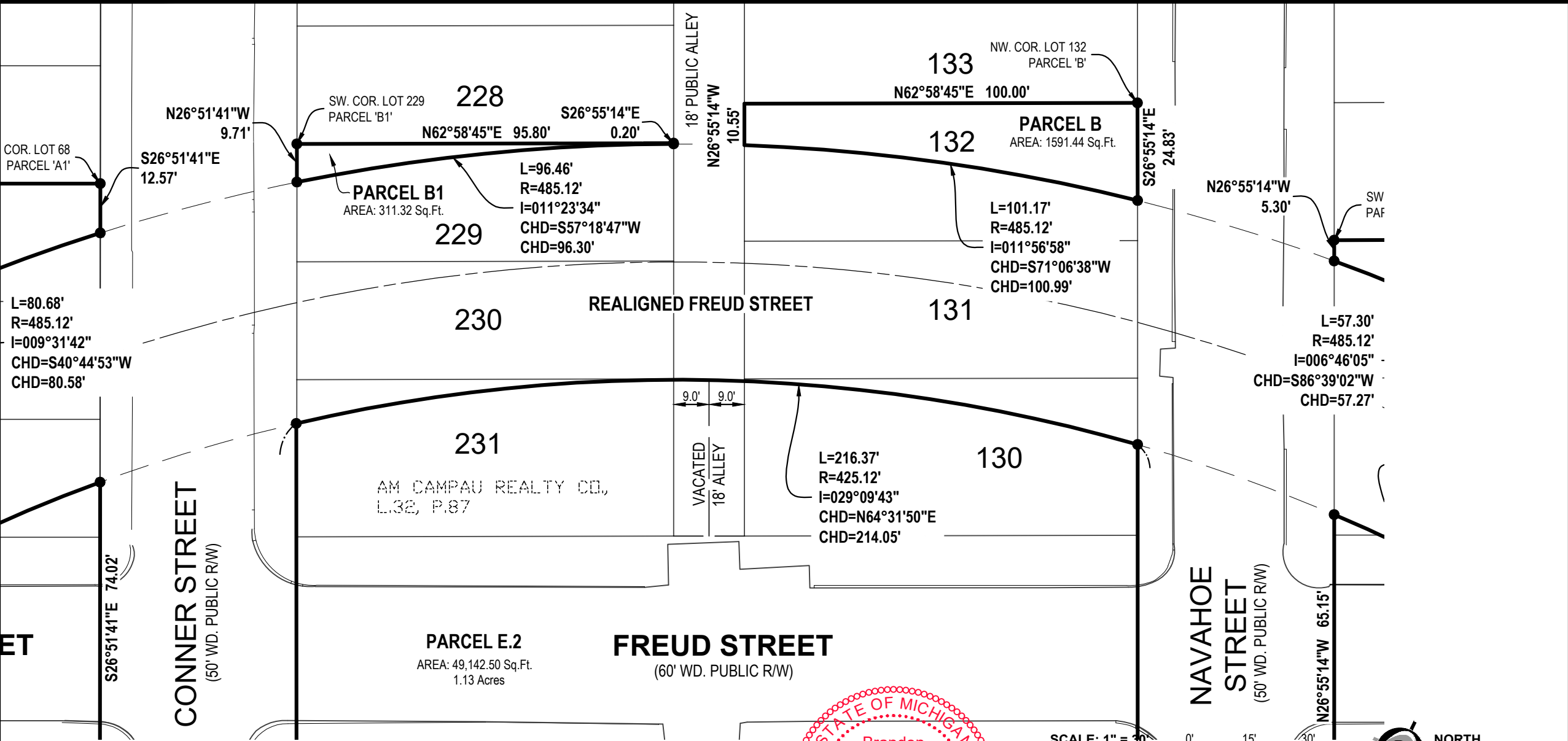
SURVEYOR'S CERTIFICATE:

I certify that the requirements for 1970 PA 132, MCL 54.213 have been met. The relative positional precision of the corners identified for this survey and shown on the map are within the limits accepted by the practice of professional surveying.

By:

Brandon G. Parrent Licensed Professional Surveyor No. 4001063096





CERTIFICATE OF SURVEY

This survey was made from the legal description shown above. The description should be compared with the Abstract of Title or Title Policy for accuracy, easements and exceptions.

SURVEYOR'S CERTIFICATE:

I certify that the requirements for 1970 PA 132, MCL 54.213 have been met. The relative positional precision of the corners identified for this survey and shown on the map are within the limits accepted by the practice of professional surveying.



By: *Brandon G. Parrent*
Brandon G. Parrent Licensed Professional Surveyor No. 4001063096

SCALE: 1" = 30'

0' 15' 30'

NORTH

ARCADIS U.S., Inc.
Fredrick Simmons
One Seagate Center, Suite 700
Toledo, OH 43604

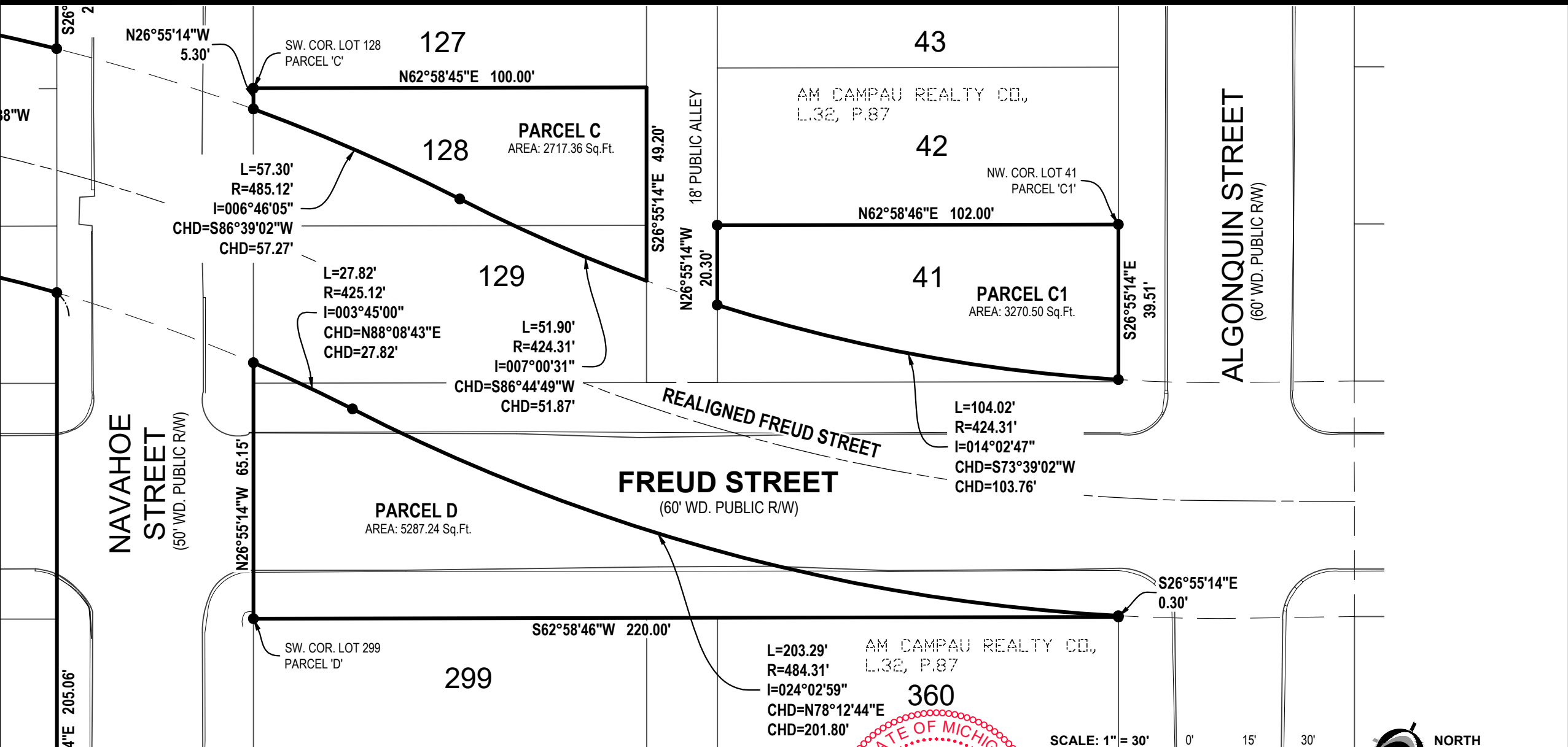
GLWA Freud Pump Station, Contract# GLWA-CS-120

DRAWN BY: RP
REV. BY: RP
REV.: Remove Parcel H

DATE: 04.29.22
REV. DATE: 01.06.23

PRJ #: 20500038DSC.3
2 OF 9

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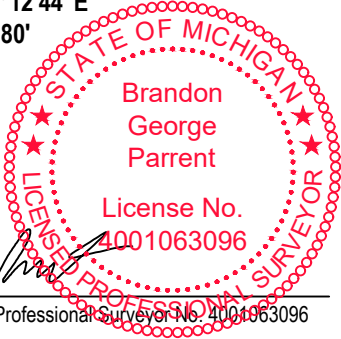
CERTIFICATE OF SURVEY

This survey was made from the legal description shown above. The description should be compared with the Abstract of Title or Title Policy for accuracy, easements and exceptions.

SURVEYOR'S CERTIFICATE:

I certify that the requirements for 1970 PA 132, MCL 54.213 have been met. The relative positional precision of the corners identified for this survey and shown on the map are within the limits accepted by the practice of professional surveying.

By: Brandon G. Parrent
Brandon G. Parrent Licensed Professional Surveyor No. 4001063096



SCALE: 1" = 30'

0' 15' 30'

NORTH

ARCADIS U.S., Inc.
Fredrick Simmons
One Seagate Center, Suite 700
Toledo, OH 43604

GLWA Freud Pump Station, Contract# GLWA-CS-120

DRAWN BY: RP
REV. BY: RP
REV.: Remove Parcel H

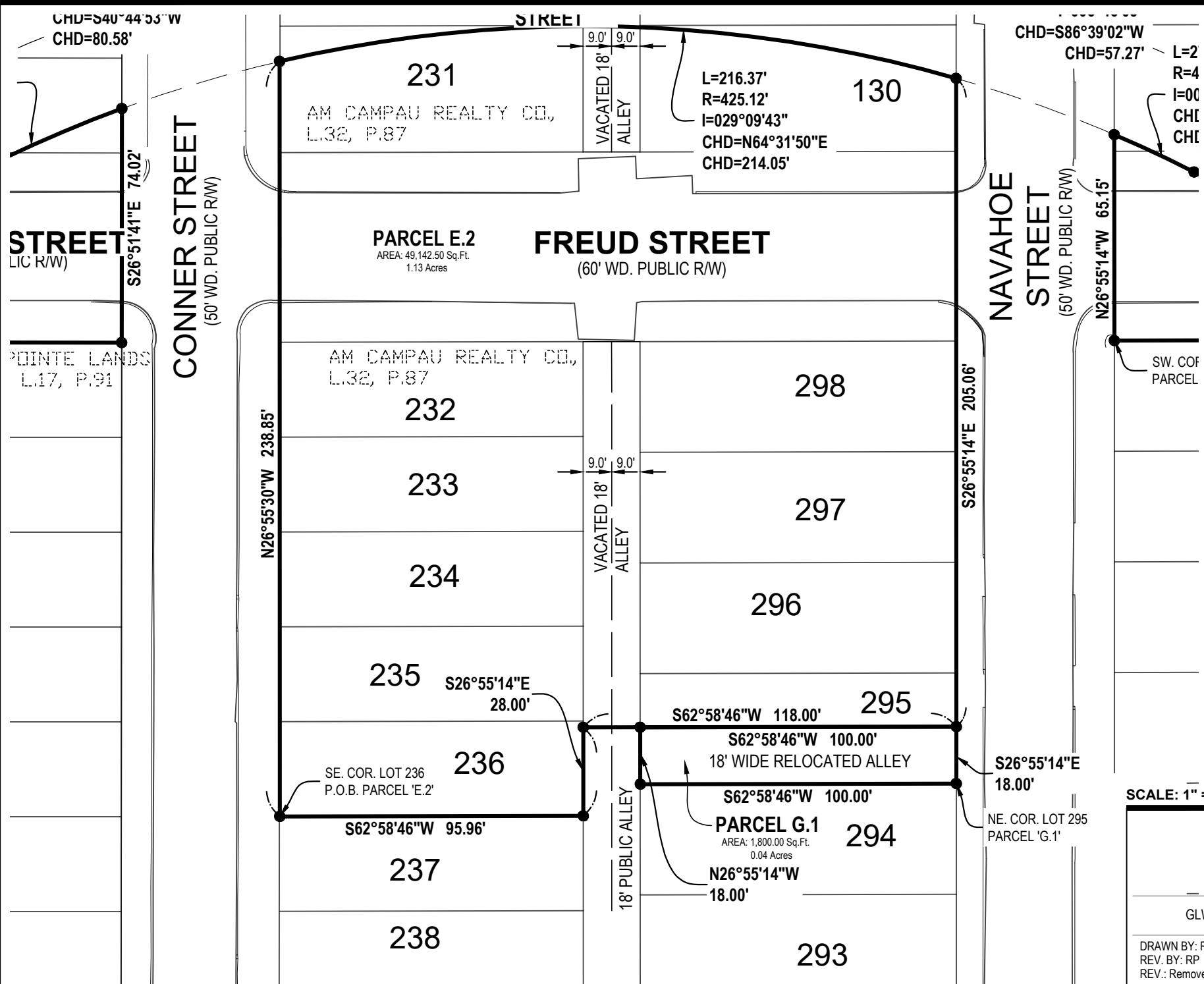
DATE: 04.29.22
REV. DATE: 01.06.23

PRJ #: 20500038DSC.3
3 OF 9

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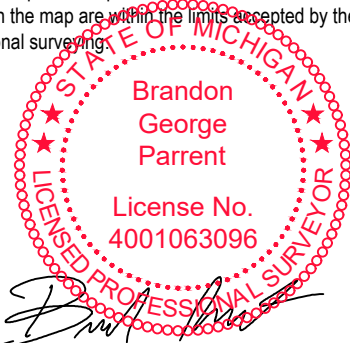
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CERTIFICATE OF SURVEY

This survey was made from the legal description shown above. The description should be compared with the Abstract of Title or Title Policy for accuracy, easements and exceptions.

SURVEYOR'S CERTIFICATE:
I certify that the requirements for 1970 PA 132, MCL 54.213 have been met. The relative positional precision of the corners identified for this survey and shown on the map are within the limits accepted by the practice of professional surveying.



By: *[Signature]*
Brandon G. Parrent Licensed Professional Surveyor No. 4001063096

SCALE: 1" = 40'

0' 20' 40'

NORTH

ARCADIS U.S., Inc.
Fredrick Simmons
One Seagate Center, Suite 700
Toledo, OH 43604

GLWA Freud Pump Station, Contract# GLWA-CS-120

DRAWN BY: RP	DATE: 04.29.22	PRJ #: 20500038DSC.3
REV. BY: RP	REV. DATE: 01.06.23	
REV.: Remove Parcel H		

4 OF 9

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DESCRIPTION

672 CONNER

Lot 236, A.M. CAMPAU REALTY COMPANY SUBDIVISION of part of the Lafferty Farm, Private Claim 322, lying southerly of Jefferson Avenue, Detroit, Wayne County, Michigan, according to the plat thereof as recorded in Liber 32, page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-16515, dated October 31, 2022; Quit Claim Deed as recorded in Liber 21464, Page 551, WCR)

675 NAVAHOE

Lot 295, A.M. Campau Realty Co Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-16495, dated October 28, 2022; Quit Claim Deed as recorded in Liber 54799, Page 175, WCR)

678 CONNER

Lot 235, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15194, dated March 4, 2022; Warranty Deed as recorded in Liber 54131, Page 1369, WCR)

681 NAVAHOE

Lot 296, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15100, dated February 22, 2022; Quit Claim Deed as recorded in Liber 56021, Page 1236, WCR)

This survey was made from the legal description shown above. The description should be compared with the Abstract of Title or Title Policy for accuracy, easements and exceptions.

SURVEYOR'S CERTIFICATE:

I certify that the requirements for 1970 PA 132, MCL 54.213 have been met. The relative positional precision of the corners identified for this survey and shown on the map are within the limits accepted by the practice of professional surveying.

CERTIFICATE OF SURVEY
DESCRIPTION

682 CONNER

Lot 234, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15187, dated March 4, 2022; Warranty Deed as recorded in Liber 54131, Page 1369, WCR)

686 CONNER

Lot 233, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15188, dated March 4, 2022; Quit Claim Deed as recorded in Liber 54800, Page 151, WCR)

687 NAVAHOE

Lot 297, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15101, dated February 22, 2022; Quit Claim Deed as recorded in Liber 52589, Page 578, WCR)

692 CONNER

Lot 232, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15103, dated February 22, 2022; Quit Claim Deed as recorded in Liber 52316, Page 1009, WCR)

DESCRIPTION

693 NAVAHOE

Lot 298, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15107, dated February 23, 2022; Warranty Deed as recorded in Liber 57048, Page 798, WCR)

700 CONNER

Lot 231, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15189, dated March 4, 2022)

700 NAVAHOE

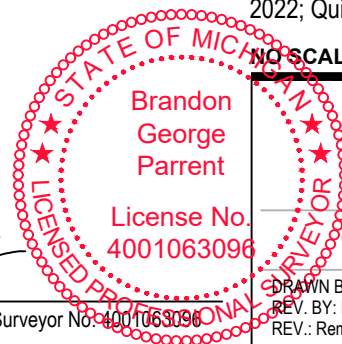
Lot 129, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15102, dated February 22, 2022; Quit Claim Deed as recorded in Liber 56609, Page 634, WCR)

701 CONNER

Lot 70, Grosse Pointe Lands COS Subdivision, according to the plat thereof, as recorded in Liber 27, Page 91 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15104, dated February 22, 2022; Quit Claim Deed as recorded in Liber 51895, Page 1402, WCR)



By: *Brandon G. Parrent*
Brandon G. Parrent Licensed Professional Surveyor No. 4001063096

NO SCALE

ARCADIS U.S., Inc.
Fredrick Simmons
One Seagate Center, Suite 700
Toledo, OH 43604

GLWA Freud Pump Station, Contract# GLWA-CS-120

DRAWN BY: RP
REV. BY: RP
REV.: Remove Parcel H

DATE: 04.29.22
REV. DATE: 01.06.23

PRJ #: 20500038DSC.3

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DESCRIPTION

703 NAVAHOE

Lot 130, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15105, dated February 22, 2022; Quit Claim Deed as recorded in Liber 51895, Page 1415, WCR)

705 ALGONQUIN

Lot 41, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15195, dated March 4, 2022; Declaration of Taking as recorded in Liber 57467, Page 706, WCR)

707 CONNER

Lot 69, Grosse Pointe Lands COS Subdivision, according to the plat thereof, as recorded in Liber 27, Page 91 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15191, dated March 4, 2022; Warranty Deed as recorded in Liber 57348, Page 797, WCR)

710 CONNER

Lot 230, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15190, dated March 4, 2022)

CERTIFICATE OF SURVEY
DESCRIPTION

710 NAVAHOE

Lot 128, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15108, dated February 23, 2022; Quit Claim Deed as recorded in Liber 48218, Page 1297, WCR)

711 NAVAHOE

Lot 131, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15106, dated February 22, 2022; Quit Claim Deed as recorded in Liber 52673, Page 238, WCR)

713 CONNER

Lot 68, Grosse Pointe Lands COS Subdivision, according to the plat thereof, as recorded in Liber 27, Page 91 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15192, dated March 4, 2022; Warranty Deed as recorded in Liber 57348, Page 797, WCR)

DESCRIPTION

716 CONNER

Lot 229, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15193, dated March 4, 2022)

717 NAVAHOE

Lot 132, A. M. Campau Realty Company Subdivision, according to the plat thereof, as recorded in Liber 32, Page 87 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15109, dated February 23, 2022; Quit Claim Deed as recorded in Liber 51587, Page 49, WCR)

12415 FREUD

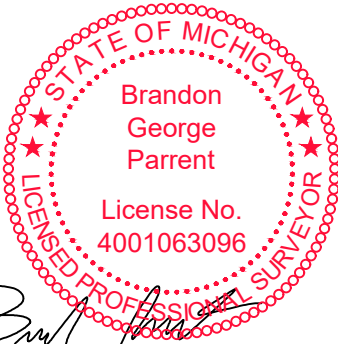
Lot 87, Grosse Pointe Lands COS Subdivision, according to the plat thereof, as recorded in Liber 27, Page 91 of Plats, Wayne County Records.

(Detroit Title and Escrow Agent, File No. FT-15110, dated February 23, 2022; Warranty Deed as recorded in Liber 57142, Page 529, WCR)

This survey was made from the legal description shown above. The description should be compared with the Abstract of Title or Title Policy for accuracy, easements and exceptions.

SURVEYOR'S CERTIFICATE:

I certify that the requirements for 1970 PA 132, MCL 54.213 have been met. The relative positional precision of the corners identified for this survey and shown on the map are within the limits accepted by the practice of professional surveying.



By: [Signature] Brandon G. Parrent Licensed Professional Surveyor No. 4001063096

NO SCALE

ARCADIS U.S., Inc.
Fredrick Simmons
One Seagate Center, Suite 700
Toledo, OH 43604

GLWA Freud Pump Station, Contract# GLWA-CS-120

DRAWN BY: RP
REV. BY: RP
REV.: Remove Parcel H

DATE: 04.29.22
REV. DATE: 01.06.23

PRJ #: 20500038DSC.3
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DESCRIPTION

PARCEL A DESCRIPTION: Part of Lot 87, Grosse Pointe Lands Company Subdivision, being part of Private Claim 388, City of Detroit, Wayne County, Michigan, as recorded in Liber 27, Page 91, Wayne County Records, described as: Commencing at the Southwest corner of said Lot 87 as a Point of Beginning; thence N63°06'19"E 100.00 feet along the West line of said Lot 87; thence S26°51'41"E 1.93 feet along the North line of said Lot 87; thence Southwesterly 103.32 feet along a 425.40 foot radius curve to the right, said curve having a central angle of 13°54'57", and a chord bearing S49°07'53"W 103.06 feet; thence N26°51'41"W 26.81 feet to the Point of Beginning. Contains 1652.50 square feet. Subject to any and all easements, restrictions, right-of-way of record.

PARCEL A1 DESCRIPTION: Part of Lots 68 and 69, Grosse Pointe Lands Company Subdivision, being part of Private Claim 388, City of Detroit, Wayne County, Michigan, as recorded in Liber 27, Page 91, Wayne County Records, described as: Commencing at the Northwest corner of said Lot 68 as a Point of Beginning; thence S26°51'41"E 12.57 feet along the North line of said Lot 68; thence Southwesterly 80.68 feet along a 485.12 foot radius curve to the left, said curve having a central angle of 09°31'42", and a chord bearing S40°44'53"W 80.58 feet; thence Southwesterly 26.50 feet along a 425.40 foot radius curve to the right, said curve having a central angle of 03°34'10", and a chord bearing S37°46'07"W 26.50 feet; thence N26°51'41"W 54.56 feet; thence N63°06'19"E 98.45 feet along the West line of said Lot 68 to the Point of Beginning. Contains 3162.88 square feet. Subject to any and all easements, restrictions, right-of-way of record.

This survey was made from the legal description shown above. The description should be compared with the Abstract of Title or Title Policy for accuracy, easements and exceptions.

SURVEYOR'S CERTIFICATE:

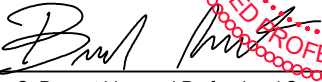
I certify that the requirements for 1970 PA 132, MCL 54.213 have been met. The relative positional precision of the corners identified for this survey and shown on the map are within the limits accepted by the practice of professional surveying.

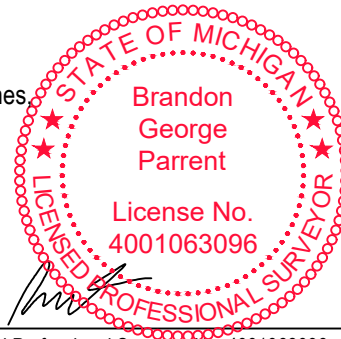
CERTIFICATE OF SURVEY
DESCRIPTION

PARCEL B DESCRIPTION: Part of Lot 132, AM Campau Realty Co., being part of Private Claim 322, City of Detroit, Wayne County, Michigan, as recorded in Liber 32, Page 87, Wayne County Records, described as: Commencing at the Northwest corner of said Lot 132 as a Point of Beginning; thence S26°55'14"E 24.83 feet along the North line of said Lot 132; thence Southwesterly 101.17 feet along a 485.12 foot radius curve to the left, said curve having a central angle of 11°56'58", and a chord bearing S71°06'38"W 100.99 feet; thence N26°55'14"W 10.55 feet along the South line of said Lot 132; thence N62°58'45"E 100.00 feet along the West line of said Lot 132 to the Point of Beginning. Contains 1591.44 square feet. Subject to any and all easements, restrictions, right-of-way of record.

PARCEL B1 DESCRIPTION: Part of Lot 229, AM Campau Realty Co., being part of Private Claim 322, City of Detroit, Wayne County, Michigan, as recorded in Liber 32, Page 87, Wayne County Records, described as: Commencing at the Southwest corner of said Lot 229 as a Point of Beginning; thence N62°58'45"E 95.80 feet along the West line of said Lot 229; thence S26°55'14"E 0.20 feet along the North line of Lot 229 of said AM Campau Realty Co.; thence Southwesterly 96.46 feet along a 485.12 foot radius curve to the left, said curve having a central angle of 11°23'34", and a chord bearing S57°18'47"W 96.30 feet; thence N26°51'41"W 9.71 feet along the South line of said Lot 229 to the Point of Beginning. Contains 311.32 square feet. Subject to any and all easements, restrictions, right-of-way of record.

BASIS OF BEARING: NAD83 Michigan State Planes
South Zone, International Foot

By: 
Brandon G. Parrent Licensed Professional Surveyor No. 4001063096



DESCRIPTION

PARCEL C DESCRIPTION: Part of Lots 128 and 129, AM Campau Realty Co., being part of Private Claim 322, City of Detroit, Wayne County, Michigan, as recorded in Liber 32, Page 87, Wayne County Records, described as: Commencing at the Southwest corner of said Lot 128 as a Point of Beginning; thence N62°58'45"E 100.00 feet along the West line of said Lot 128; thence S26°55'14"E 49.20 feet along the North line of said Lots 128 and 129; thence Southwesterly 51.90 feet along a 424.31 foot radius curve to the right, said curve having a central angle of 07°00'31", and a chord bearing S86°44'49"W 51.87 feet; thence Southwesterly 57.30 feet along a 485.12 foot radius curve to the left, said curve having a central angle of 06°46'05", and a chord bearing S86°39'02"W 57.27 feet; thence N26°55'14"W 5.30 feet along the South line of said Lot 128 to the Point of Beginning. Contains 2717.36 square feet. Subject to any and all easements, restrictions, right-of-way of record.

PARCEL C1 DESCRIPTION: Part of Lot 41, AM Campau Realty Co., being part of Private Claim 322, City of Detroit, Wayne County, Michigan, as recorded in Liber 32, Page 87, Wayne County Records, described as: Commencing at the Northwest corner of said Lot 41 as a Point of Beginning; thence S26°55'14"E 39.51 feet along the North line of said Lot 41; thence Southwesterly 104.02 feet along a 424.31 foot radius curve to the right, said curve having a central angle of 14°02'47", and a chord bearing S73°39'02"W 103.76 feet; thence N26°55'14"W 20.30 feet along the South line of said Lot 41 to the Point of Beginning. Contains 3270.50 square feet. Subject to any and all easements, restrictions, right-of-way of record.

NO SCALE

ARCADIS U.S., Inc. Fredrick Simmons One Seagate Center, Suite 700 Toledo, OH 43604			 NORTH
GLWA Freud Pump Station, Contract# GLWA-CS-120			
DRAWN BY: RP REV. BY: RP REV.: Remove Parcel H	DATE: 04.29.22 REV. DATE: 01.06.23	PRJ #: 20500038DSC.3 7 OF 9	 NEDERVELD www.nederveld.com • 800.222.1868 Ann Arbor 3037 Miller Rd. Ann Arbor, MI 48103 Chicago, Columbus, Grand Rapids, Holland, Indianapolis, St. Louis

DESCRIPTION

PARCEL D DESCRIPTION: Part of Lot 129, and vacated Freud Street adjacent to Lots 299 and 360, AM Campau Realty Co., being part of Private Claim 322, City of Detroit, Wayne County, Michigan, as recorded in Liber 32, Page 87, Wayne County Records, described as: Commencing at the Southwest corner of said Lot 299 as a Point of Beginning; thence N26°55'14"W 65.15 feet along the South line of said Lot 129 and an extension thereof; thence Northeasterly 27.82 feet along a 425.12 foot radius curve to the right, said curve having a central angle of 03°45'00", and a chord bearing N88°08'43"E 27.82 feet; thence Northeasterly 203.29 feet along a 484.31 foot radius curve to the left, said curve having a central angle of 24°02'59", and a chord bearing N78°12'44"E 201.80 feet; thence S26°55'14"E 0.30 feet; thence S62°58'46"W 220.00 feet along the West line of said Lots 299 and 360 to the Point of Beginning. Contains 5287.24 square feet. Subject to any and all easements, restrictions, right-of-way of record.

PARCEL E.2 DESCRIPTION: Part of Lots 130, 231, 232, 233, 234, 235, 236, 295, 296, 297, and 298, and vacated 18 foot public alley adjacent to said Lots 130, 296, 297, and 298, and adjacent to the West 17 feet of said Lot 295, and vacated Freud Street adjacent to said Lots 130 and 231, AM Campau Realty Co., being part of Private Claim 322, City of Detroit, Wayne County, Michigan, as recorded in Liber 32, Page 87, Wayne County Records, described as: Commencing at the Southeast corner of said Lot 236 as a Point of Beginning; thence N26°55'30"W 238.85 feet along the South line of said Lot 231 and an extension thereof, and the South line of said Lots 232, 233, 234, 235, and 236; thence Northeasterly 216.37 feet along a 425.12 foot radius curve to the right, said curve having a central angle of 29°09'43", and a chord bearing N64°31'50"E 214.05 feet; thence S26°55'14"E 205.06 feet along the North line of said Lot 130 and an extension thereof, and the North line of said Lots 295, 296, 297, and 298; thence S62°58'46"W 118.00 feet; thence S26°55'14"E 28.00 feet along the North line of said Lot 236; thence S62°58'46"W 95.96 feet along the East line of said Lot 236 to the Point of Beginning. Contains 49,142.50 square feet, 1.13 acres. Subject to any and all easements, restrictions, right-of-way of record.

CERTIFICATE OF SURVEY
DESCRIPTION

PARCEL F DESCRIPTION: Part of Lot 70, Grosse Pointe Lands Company Subdivision, being part of Private Claim 388, City of Detroit, Wayne County, Michigan, as recorded in Liber 27, Page 91, Wayne County Records, and that portion of vacated Freud Street adjacent to Lots 71 and 86 of said Grosse Pointe Lands Company Subdivision, described as: Commencing at the Southwest corner of said Lot 86 as a Point of Beginning; thence N26°51'41"W 2.79 feet; thence Northeasterly 179.57 feet along a 485.61 foot radius curve to the left, said curve having a central angle of 21°11'13", and a chord bearing N46°22'07"E 178.55 feet; thence Northeasterly 49.66 feet along a 425.12 foot radius curve to the right, said curve having a central angle of 06°41'35", and a chord bearing N39°34'37"E 49.63 feet; thence S26°51'41"E 74.02 feet; thence S63°06'19"W 216.45 feet along the West line of said Lots 71 and 86 to the Point of Beginning. Contains 6825.08 square feet. Subject to any and all easements, restrictions, right-of-way of record.

PARCEL G.1 DESCRIPTION (18' WIDE RELOCATED ALLEY): Part of Lot 295, AM Campau Realty Co., being part of Private Claim 322, City of Detroit, Wayne County, Michigan, as recorded in Liber 32, Page 87, Wayne County Records, described as: Commencing at the Northeast corner of said Lot 295 as a Point of Beginning; thence S62°58'46"W 100.00 feet along the East line of said Lot 295; thence N26°55'14"W 18.00 feet along the South line of said Lot 295; thence N62°58'46"E 100.00 feet along the North line of said Lot 295; thence S26°55'14"E 18.00 feet along the East line of said Lot 295 to the Point of Beginning. Contains 1800.00 square feet. Subject to any and all easements, restrictions, right-of-way of record.

Pursuant to the alley rights per A.M. Campau Realty Company, Subdivision of part of the Lafferty Farm, P.C. 322, lying Southerly of Jefferson Avenue, conforming to the general plan of the City.

BASIS OF BEARING: NAD83 Michigan State Planes
South Zone, International Foot

This survey was made from the legal description shown above. The description should be compared with the Abstract of Title or Title Policy for accuracy, easements and exceptions.

SURVEYOR'S CERTIFICATE:

I certify that the requirements for 1970 PA 132, MCL 54.213 have been met. The relative positional precision of the corners identified for this survey and shown on the map are within the limits accepted by the practice of professional surveying.



By: *[Signature]*
Brandon G. Parrent Licensed Professional Surveyor No. 4001063096

NO SCALE

ARCADIS U.S., Inc.
Fredrick Simmons
One Seagate Center, Suite 700
Toledo, OH 43604

GLWA Freud Pump Station, Contract# GLWA-CS-120

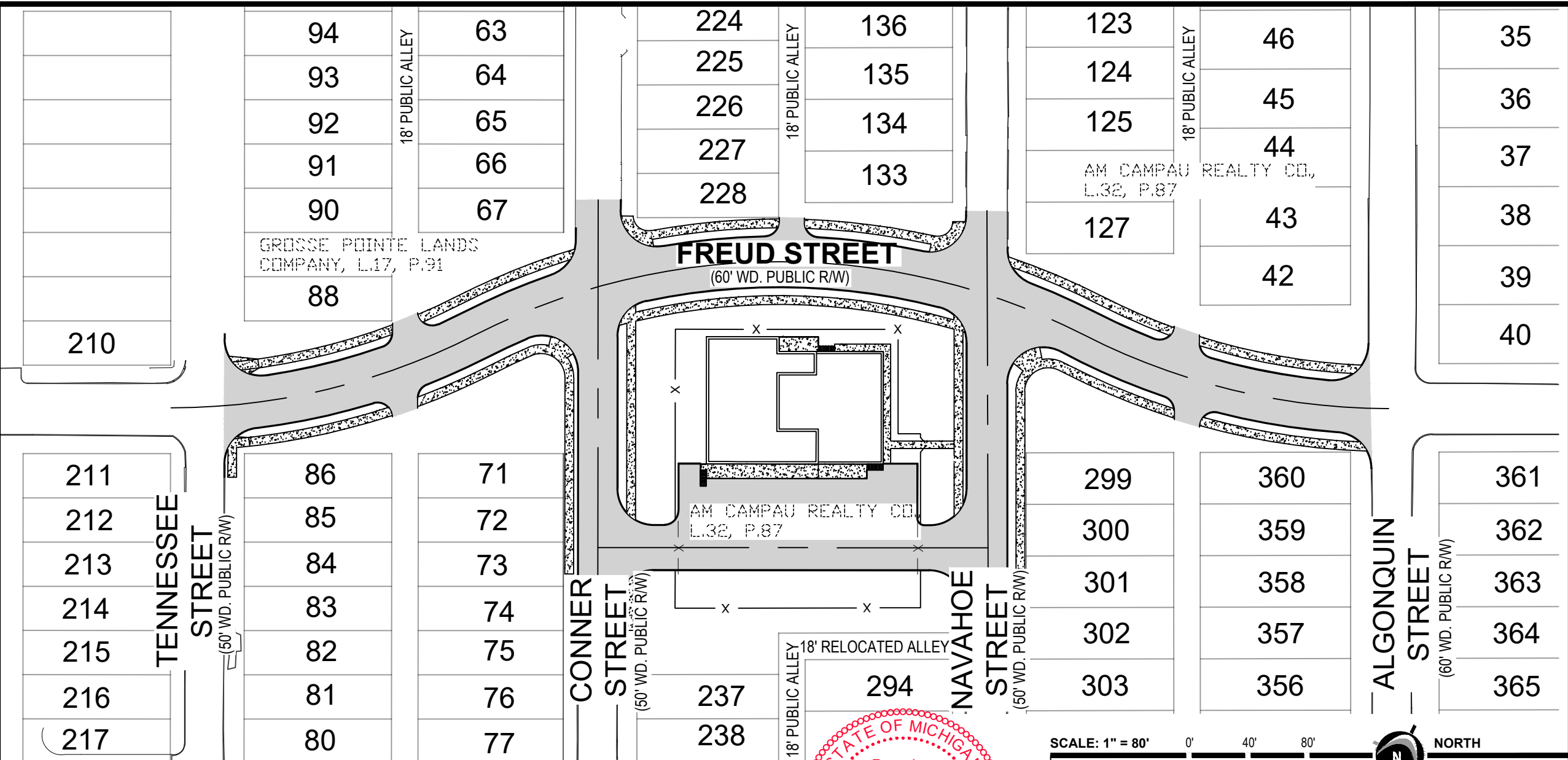
DRAWN BY: RP
REV. BY: RP
REV.: Remove Parcel H

DATE: 04.29.22
REV. DATE: 01.06.23

PRJ #: 20500038DSC.3
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This sketch was made from the legal description shown above. The description should be compared with the Abstract of Title or Title Policy for accuracy, easements and exceptions.

By: *Brandon G. Parrent*
Brandon G. Parrent Licensed Professional Surveyor No. 4001063096

STATE OF MICHIGAN
Brandon George Parrent
License No. 4001063096
LICENSED PROFESSIONAL SURVEYOR

SCALE: 1" = 80' 0' 40' 80' NORTH

ARCADIS U.S., Inc.
Fredrick Simmons
One Seagate Center, Suite 700
Toledo, OH 43604

GLWA Freud Pump Station, Contract# GLWA-CS-120

DRAWN BY: RP DATE: 09.20.22 PRJ #: 20500038DSC3.3
REV. BY: RP REV. DATE: 01.06.23 9 OF 9
REV.: Remove Parcel H

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