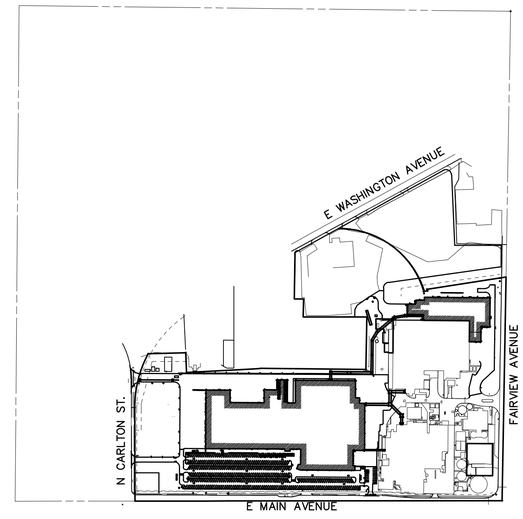
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ZEELAND MODERNIZATION MASTERPLAN

ZEELAND, MICHIGAN

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SITE PLAN
SCALE: NTS

NORTH

APPLICANT
MEAD JOHNSON & COMPANY LLC
725 E MAIN AVENUE, ZEELAND,
MICHIGAN 49464
ALLAN BARRON
847-409-3536
ALLAN.BARRON@RECKITT.COM

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DAN LEWIS, P.E.
269-697-7120
DAN@VKCIVIL.COM

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P.O.#

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STATE OF MICHIGAN
DANIEL LEWIS
ENGINEER
NO. 6201052573
LICENSED PROFESSIONAL ENGINEER

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A	02APR2026	SITE PLAN APPROVAL	MDS

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VENDOR NAME: VK CIVIL
SHEET: 1 of 36
SHEET #: C000
CAD FILE NAME: ZSCSIT-1473-C000

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A	02-APR-2026	SITE PLAN APPROVAL	SRF

Title: RENDERINGS

Project: ZSC VIVID
BUILDING 00 SITE

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

C.A.R. OR P.O. NUMBER:
CAR_NUMBER

SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			ADB
DESIGNER:			RS
DRAFTER:			SG
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GLDZ5120
DISCIPLINE:			ARCHITECTURAL
SYSTEM NAME:			
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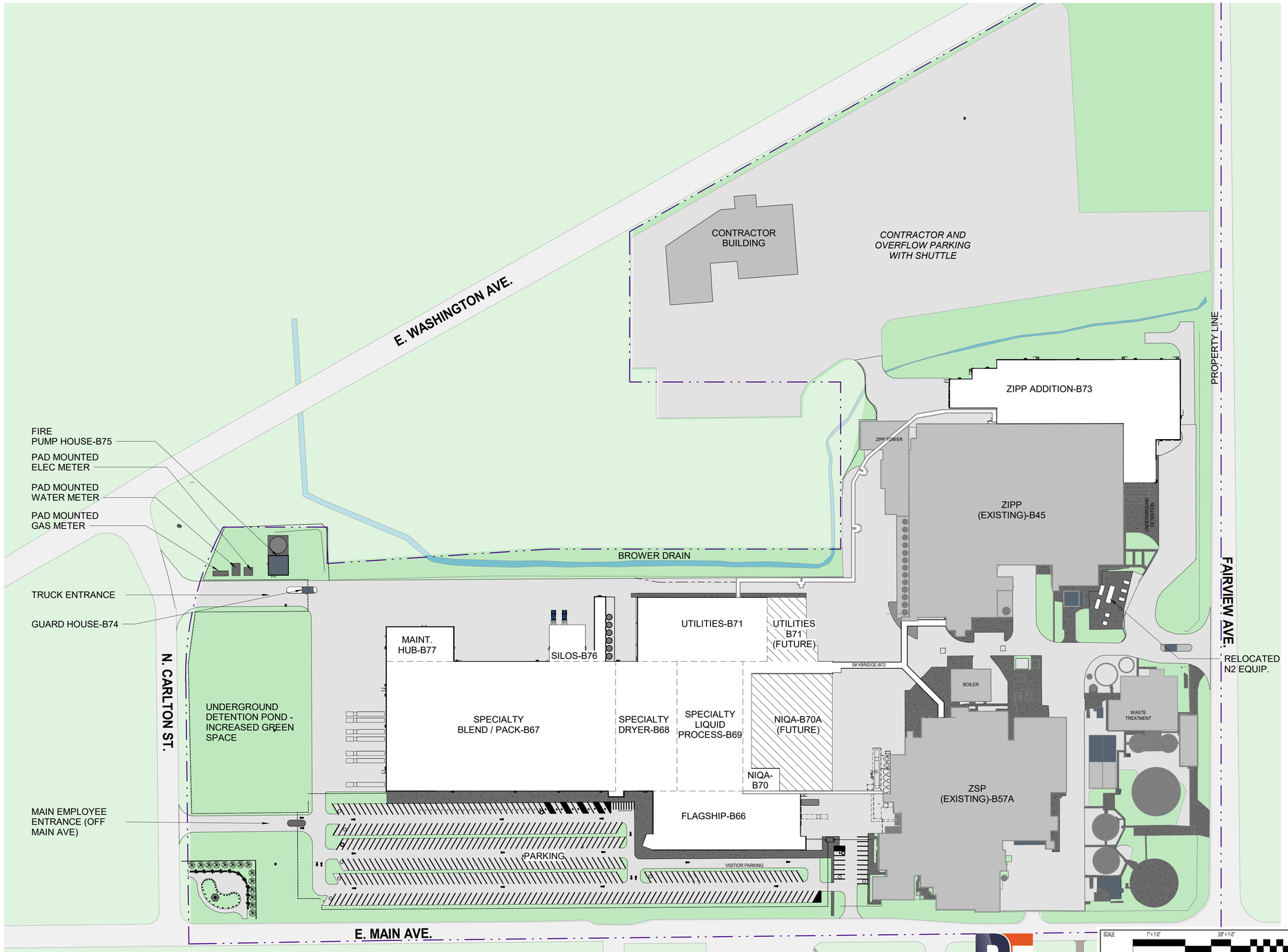
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A **OVERALL SITE DIAGRAM PLAN**

ASK-002 SCALE: 1" = 100'-0"

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1/2" = 1'-0" 1/8" = 1'-0"
3/16" = 1'-0" 1/16" = 1'-0"
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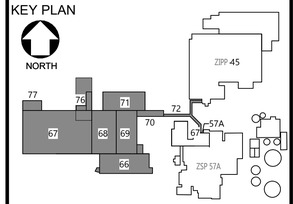
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KEY PLAN



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A	02-APR-2026	SITE PLAN APPROVAL	SRF

Title: OVERALL SITE DIAGRAM

Project: ZSC VIVID
BUILDING 00 SITE

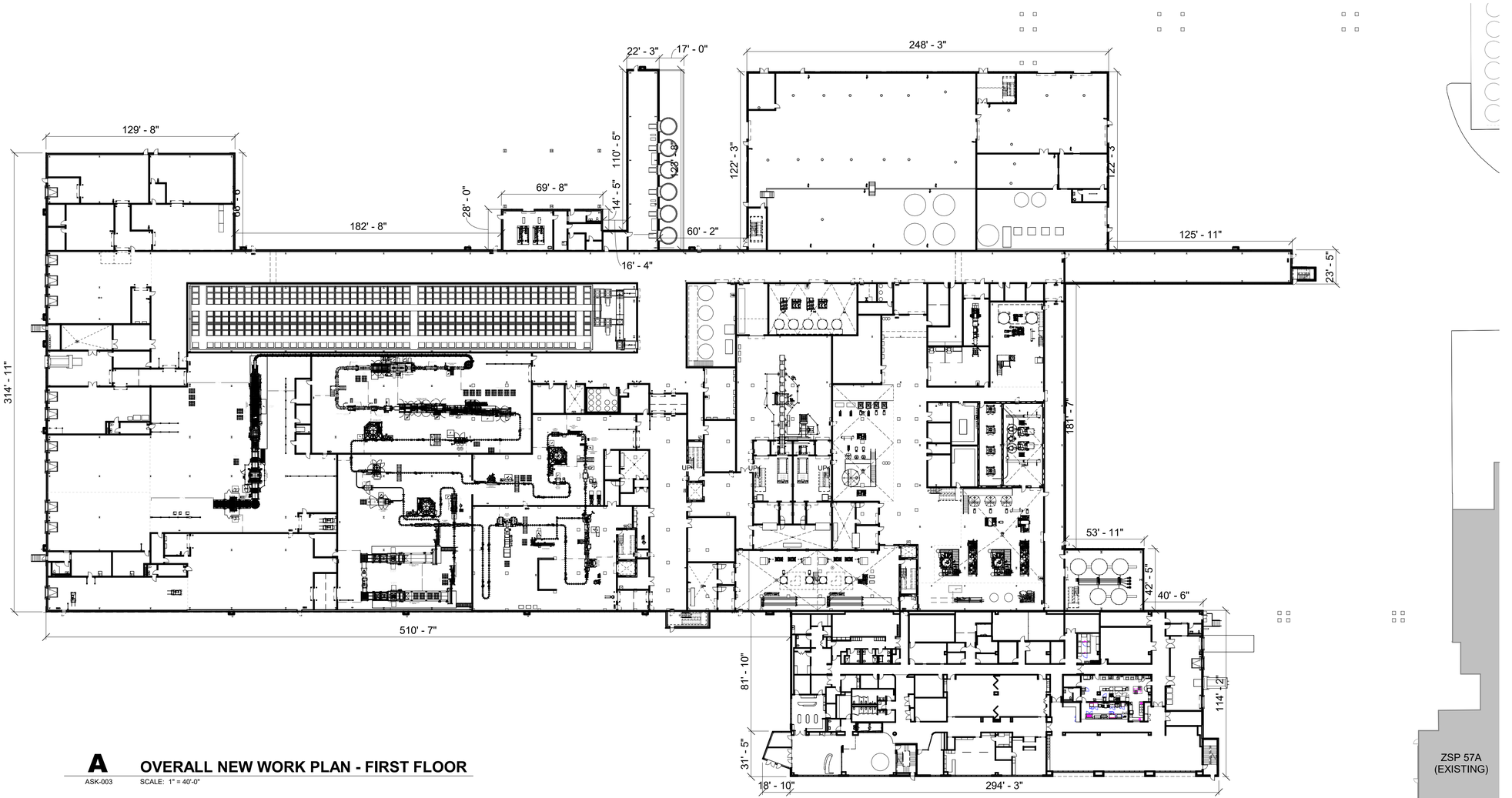
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DESIGNER:			RS/SGT
DRAFTER:			RS/SGT
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GLDS7120
DISCIPLINE:			ARCHITECTURAL
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A OVERALL NEW WORK PLAN - FIRST FLOOR

ASK-003 SCALE: 1" = 40'-0"

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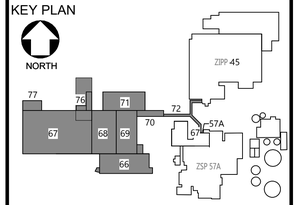
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KEY PLAN



REV	DATE	DESCRIPTION	BY
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MeadJohnson NUTRITION

Title: SPECIALTY B67-70 - FIRST FLOOR PLAN

Project: ZSC VIVID
BUILDING 00 SITE

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

C.A.R. OR P.O. NUMBER
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SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			ADS
DESIGNER:			RS
DRAFTER:			SC
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VENDOR PROJECT NUMBER:			GLDZ5120
DISCIPLINE:			ARCHITECTURAL
SYSTEM NAME:			
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SCALE
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0 1/2" = 1'-0" 1/8" = 1'-0"
3/16" = 1'-0" 1/16" = 1'-0"
0 3/32" = 1'-0" 3" = 1'-0"
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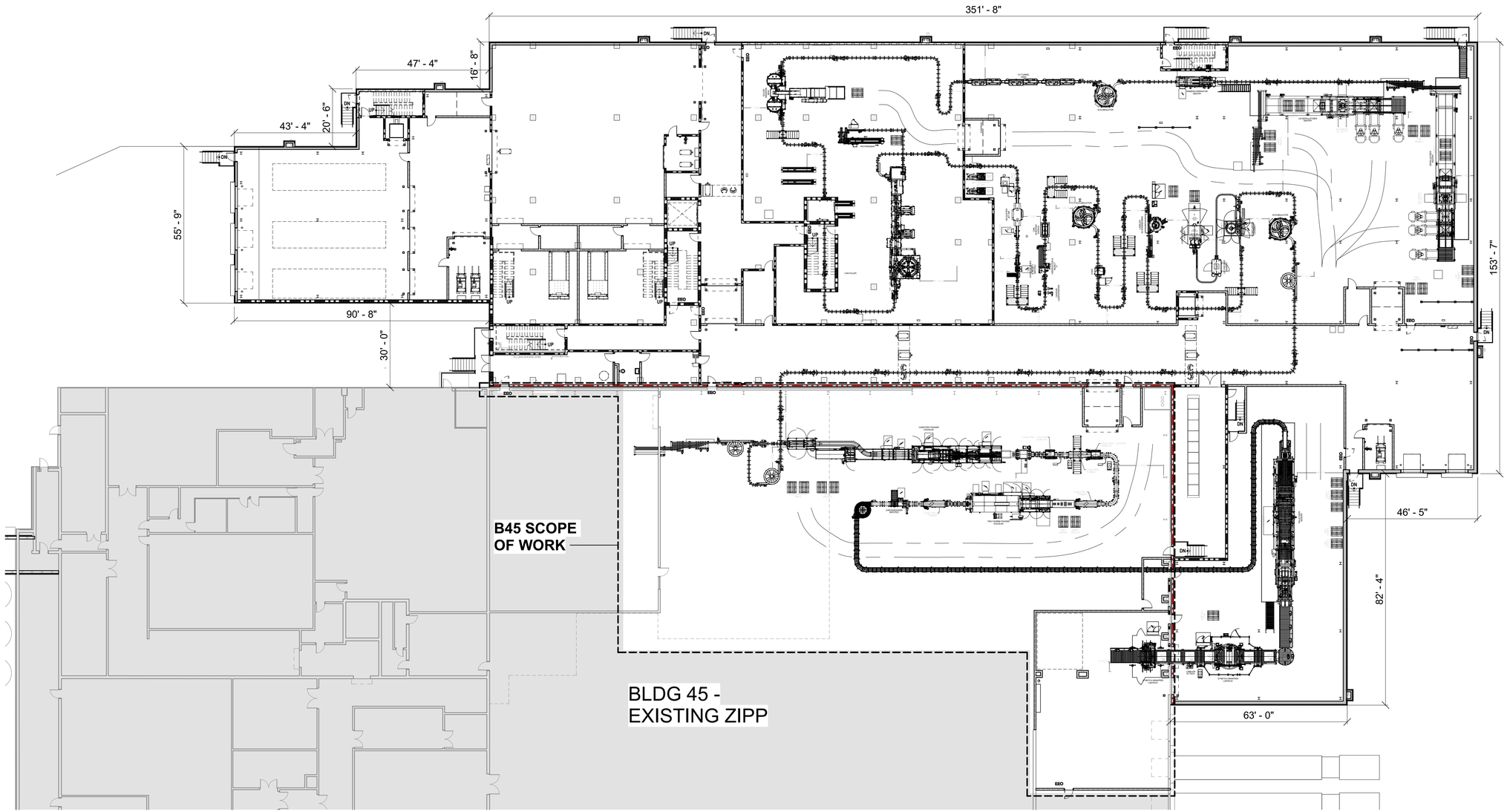
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A ZIPP B73 - FIRST FLOOR PLAN

ASK-004 SCALE: 1" = 20'-0"

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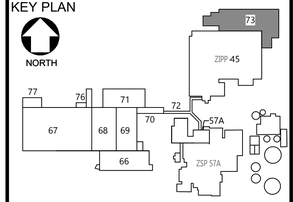
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KEY PLAN



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Title: ZIPP B73 - FIRST FLOOR PLAN

Project: ZSC VIVID
BUILDING 73 ZIPP ADDITION

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
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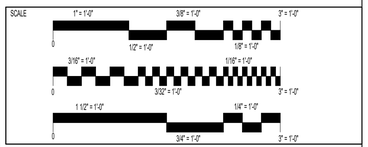
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DESIGNER:			RS
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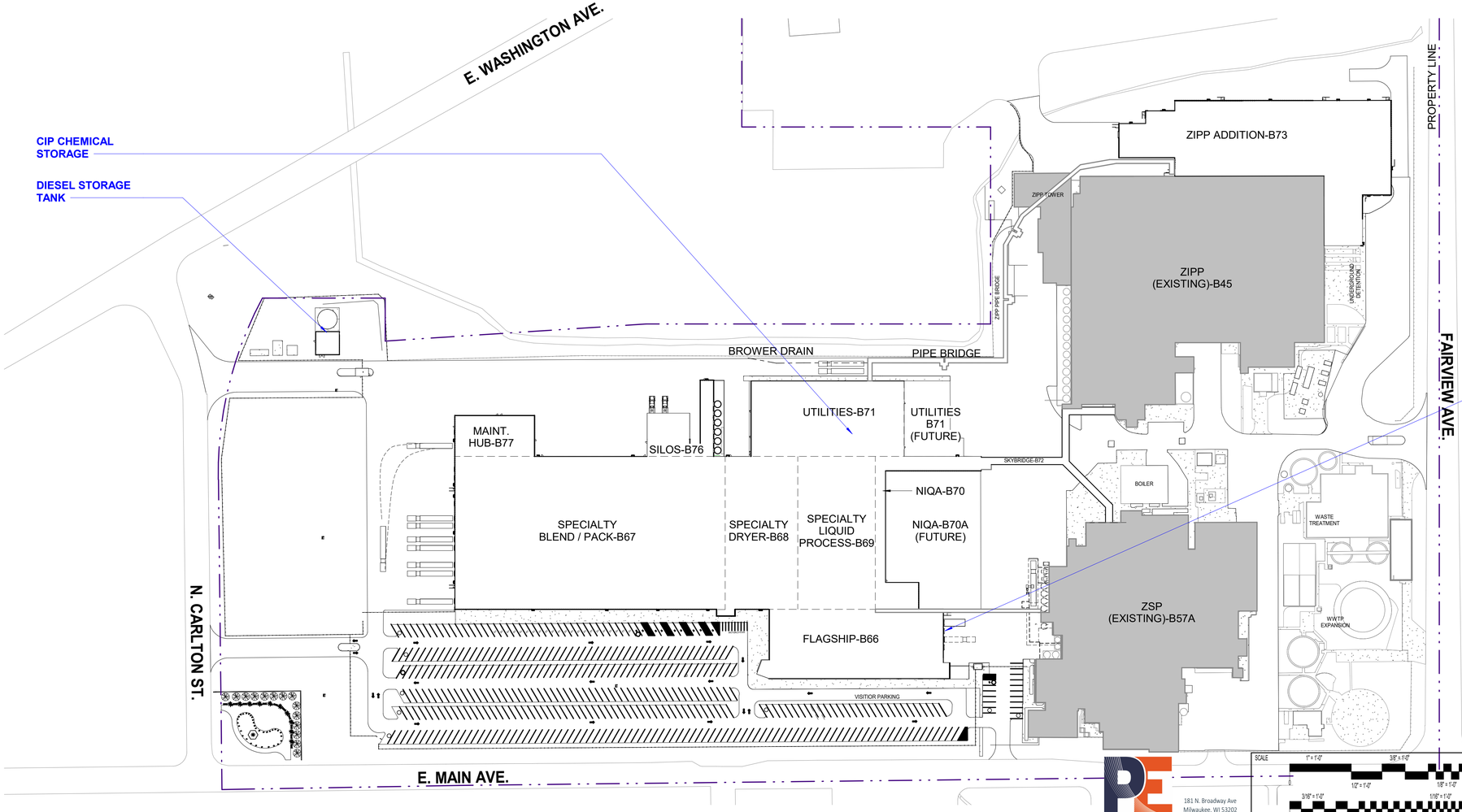
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A **OVERALL SITE DIAGRAM PLAN**
ASK-005 SCALE: 1" = 100'-0"

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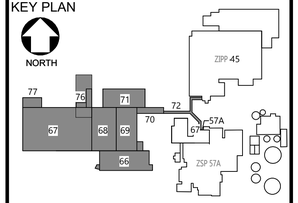
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Maintenance Representative	mm/dd/yy
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KEY PLAN
NORTH


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MeadJohnson NUTRITION

Title: SITE DIAGRAM - HAZARDOUS LOCATIONS

Project: ZSC VIVID
BUILDING 00 SITE

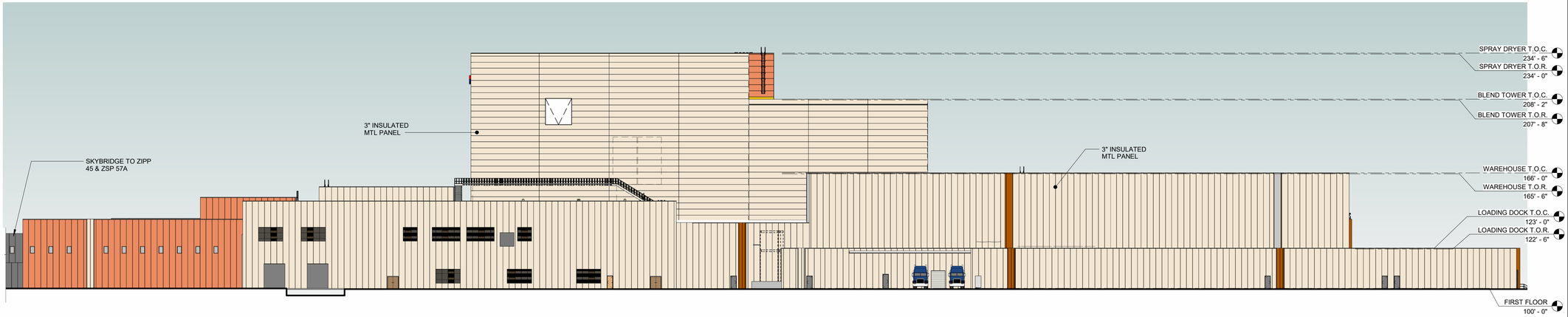
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SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			ADS
DESIGNER:			RS/SGT
DRAFTER:			RS/SGT
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GLDS120
DISCIPLINE:			ARCHITECTURAL
SYSTEM NAME:			
SYSTEM NUMBER:			
EQUIPMENT TYPE:			
LEGACY NUMBER:		SHEET #:	ASK-005
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DEPARTMENT:		SHEET:	

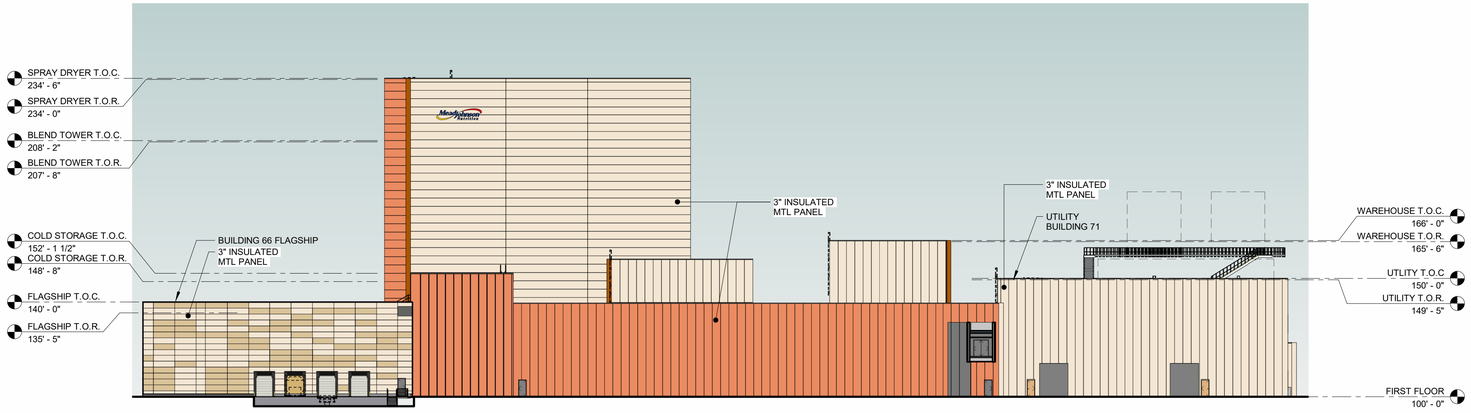
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1 OVERALL ELEVATION - NORTH

ASK-006 SCALE: 1/32" = 1'-0"



2 OVERALL ELEVATION - EAST

ASK-006 SCALE: 1/32" = 1'-0"

ELEVATIONS NOTES

T.O.C.	TOP OF COPING PARAPET
T.O.R.	TOP OF ROOF

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REV	DATE	DESCRIPTION	BY
A	02-APR-2026	SITE PLAN APPROVAL	SRF

Title: SPECIALTY 867-70 - EXTERIOR BUILDING ELEVATIONS

Project: ZSC VIVID
BUILDING 00 SITE

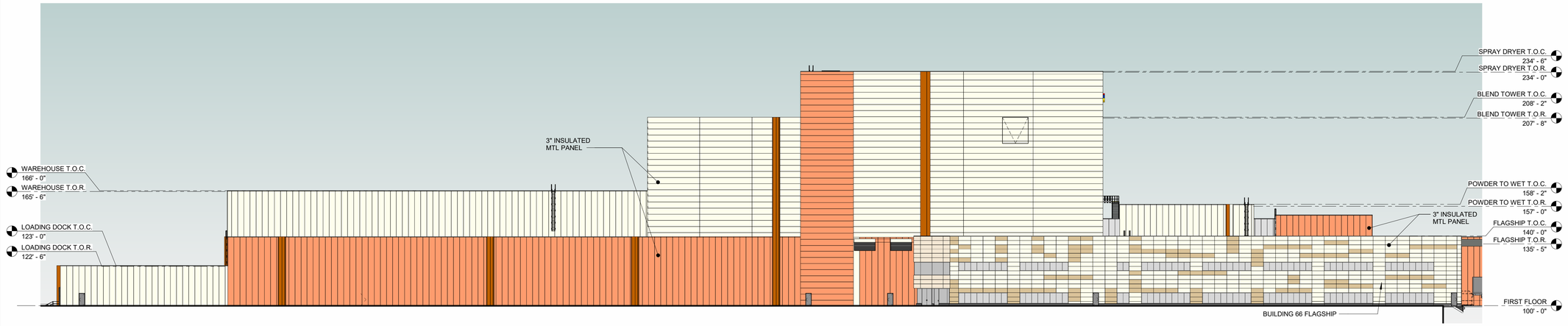
Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

C.A.R. OR P.O NUMBER:
CAR_NUMBER

SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			ADS
DESIGNER:			RS/SGT
DRAFTER:			RS/SGT
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GLD25120
DISCIPLINE:			ARCHITECTURAL
SYSTEM NAME:			
SYSTEM NUMBER:			
EQUIPMENT TYPE:			
LEGACY NUMBER:		SHEET #:	ASK-006
LEGACY DATE:			
LEGACY VENDOR:			
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HARD COPY:			
DEPARTMENT:		SHEET:	

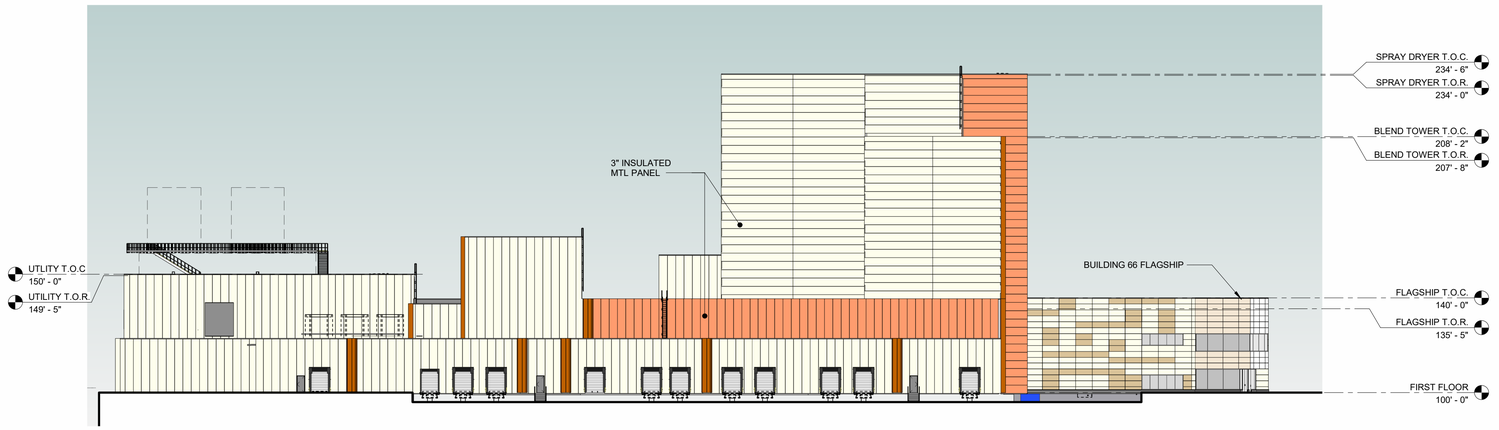
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City of Zeeland, MI



1 OVERALL ELEVATION - SOUTH

ASK-007 SCALE: 1/32" = 1'-0"



2 OVERALL ELEVATION - WEST

ASK-007 SCALE: 1/32" = 1'-0"

ELEVATIONS NOTES

T.O.C.	TOP OF COPING PARAPET
T.O.R.	TOP OF ROOF

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414.278.6060
www.pierceengineers.com

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(269) 697-7120

SCALE 1" = 1'-0" 3/8" = 1'-0" 3" = 1'-0"
1/2" = 1'-0" 1/8" = 1'-0"
3/16" = 1'-0" 1/16" = 1'-0"
3/32" = 1'-0" 3" = 1'-0"
1 1/2" = 1'-0" 1/4" = 1'-0"
3/4" = 1'-0" 3" = 1'-0"

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DATE:

ENGINEER	ARCHITECT	REV BY	REV
-	SRF	JG	A

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913.345.9084 PHONE

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Approved By		
Drafter / Designer		mm/dd/yy
Project Manager		mm/dd/yy
Quality Representative		mm/dd/yy
Operation Manager		mm/dd/yy
Maintenance Representative		mm/dd/yy
Customer Representative / Document Manager		mm/dd/yy

REV	DATE	DESCRIPTION	BY
A	02-APR-2026	SITE PLAN APPROVAL	SRF

Title: SPECIALTY B67-70 - EXTERIOR BUILDING ELEVATIONS

Project: ZSC VIVID
BUILDING 00 SITE

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

C.A.R. OR P.O.NUMBER:
CAR_NUMBER

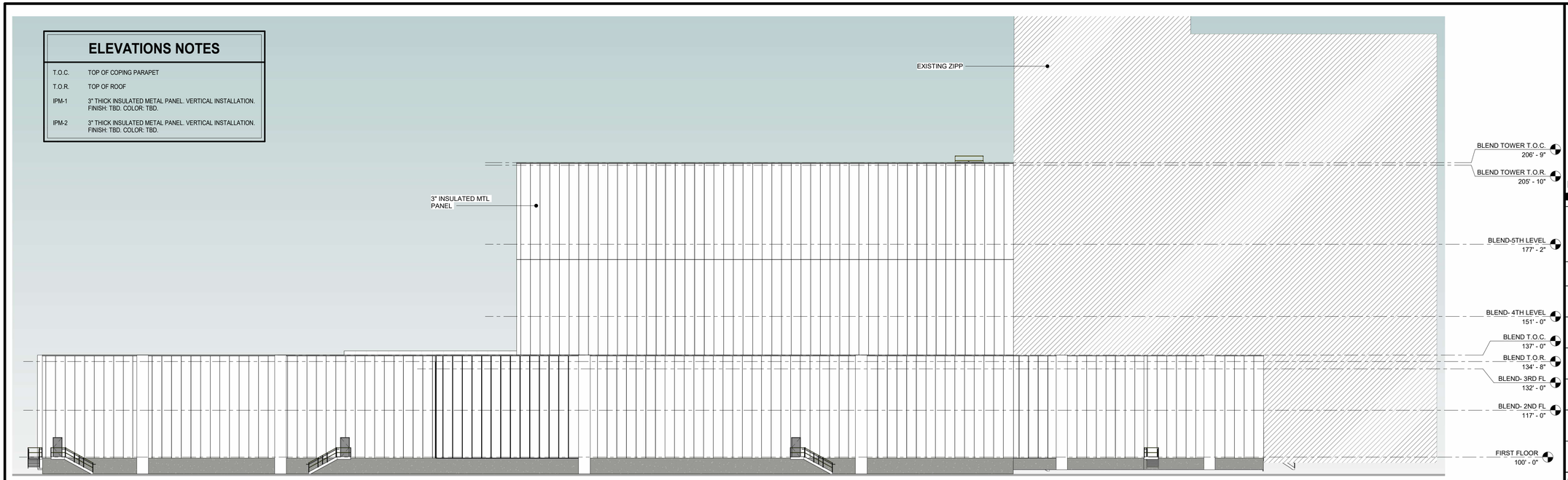
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DESIGNER:			RS/SGT
DRAFTER:			RS/SGT
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VENDOR PROJECT NUMBER:			GLD25120
DISCIPLINE:			ARCHITECTURAL
SYSTEM NAME:			
SYSTEM NUMBER:			
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LEGACY DATE:			
LEGACY VENDOR:			
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HARD COPY:			
DEPARTMENT:		SHEET:	

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Received: 04/06/26
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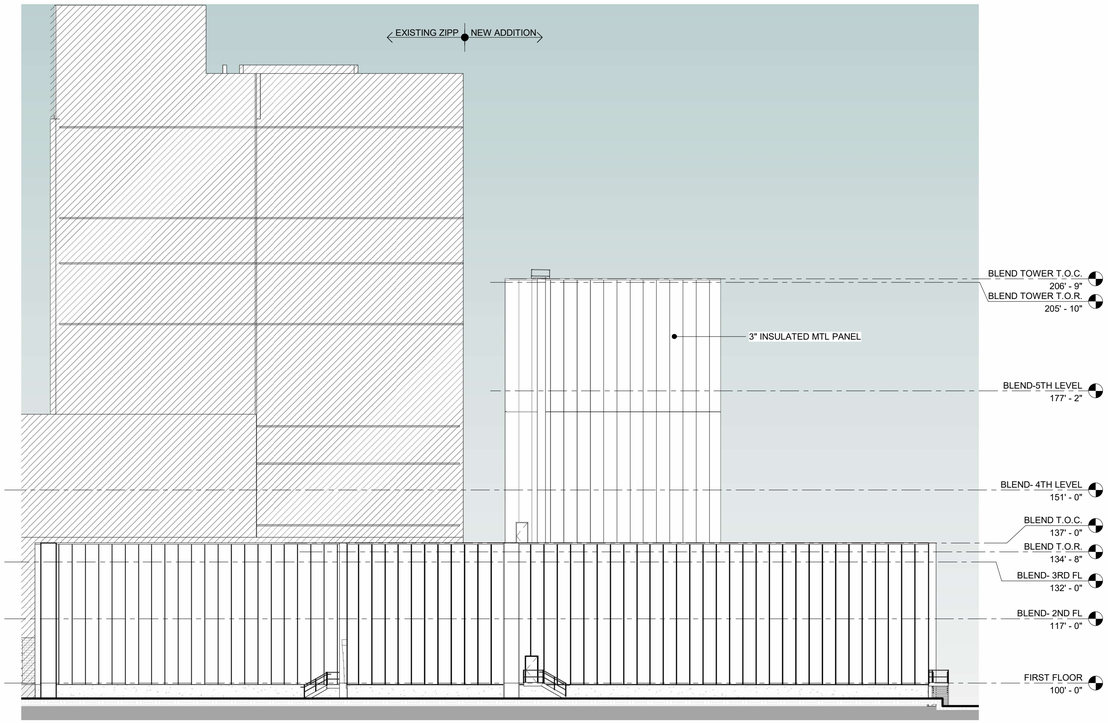
ELEVATIONS NOTES

T.O.C.	TOP OF COPING PARAPET
T.O.R.	TOP OF ROOF
IPM-1	3" THICK INSULATED METAL PANEL. VERTICAL INSTALLATION. FINISH: TBD. COLOR: TBD.
IPM-2	3" THICK INSULATED METAL PANEL. VERTICAL INSTALLATION. FINISH: TBD. COLOR: TBD.



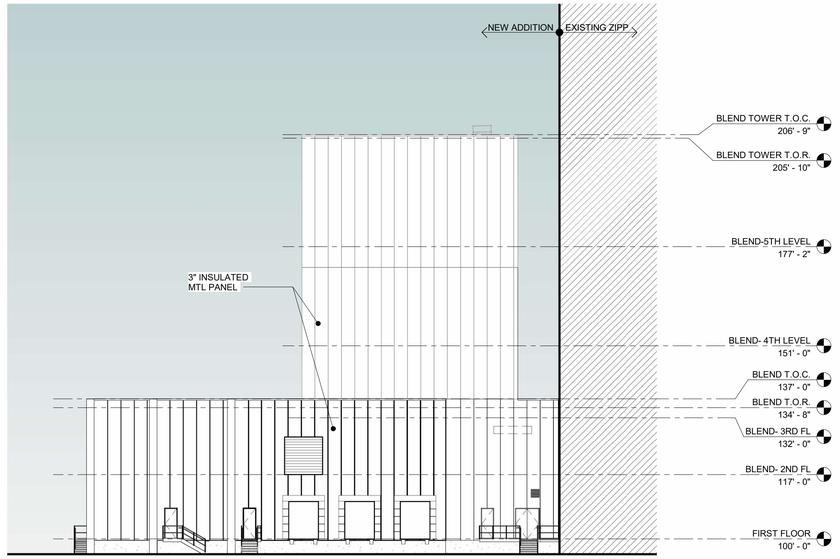
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ASK-008 SCALE: 1" = 20'-0"



3 EXTERIOR ELEVATION - EAST

ASK-008 SCALE: 1" = 20'-0"

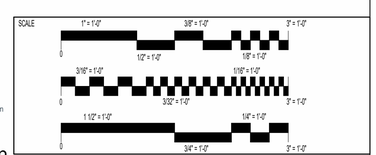


2 EXTERIOR ELEVATION - WEST

ASK-008 SCALE: 1" = 20'-0"

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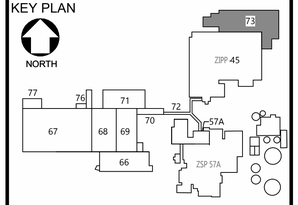
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Approved By

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

KEY PLAN



REV	DATE	DESCRIPTION	BY
A	02-APR-2026	SITE PLAN APPROVAL	SRF

Title: ZIPP B73 - EXTERIOR BUILDING ELEVATIONS

Project: ZSC VIVID
BUILDING 73 ZIPP ADDITION

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

C.A.R. OR P.O.NUMBER: CAR_NUMBER

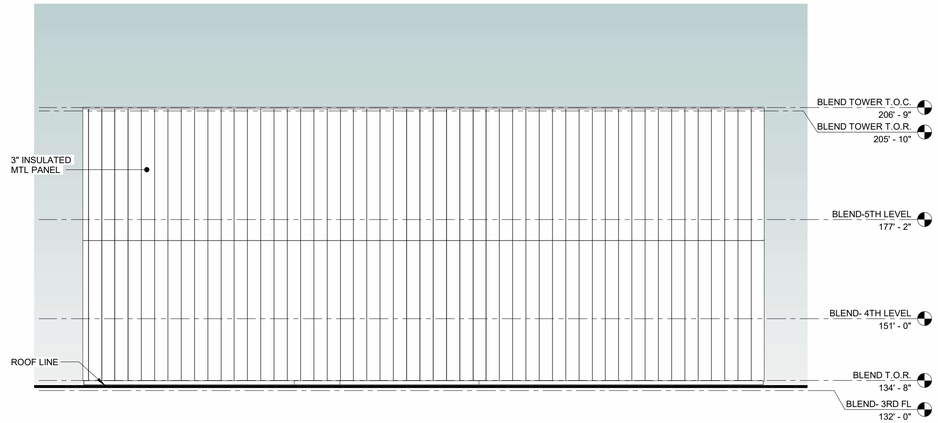
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PROJECT MANAGER:			
DESIGNER:			RS
DRAFTER:			SC
VENDOR NAME:			
VENDOR PROJECT NUMBER:			
DISCIPLINE:			
SYSTEM NAME:			
SYSTEM NUMBER:			
EQUIPMENT TYPE:			
LEGACY NUMBER:		SHEET #:	ASK-008
LEGACY DATE:			
LEGACY VENDOR:			
CAD FILE NAME:	ASK-008.dwg	DRAWING NUMBER:	ASK-008
HARD COPY:			
DEPARTMENT:		SHEET:	

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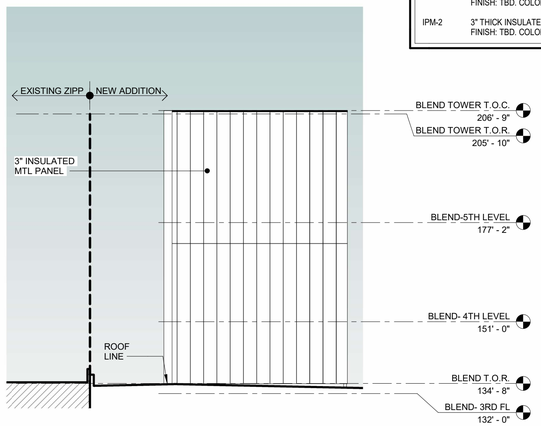
Received: 04/06/26
City of Zeeland, MI

ELEVATIONS NOTES

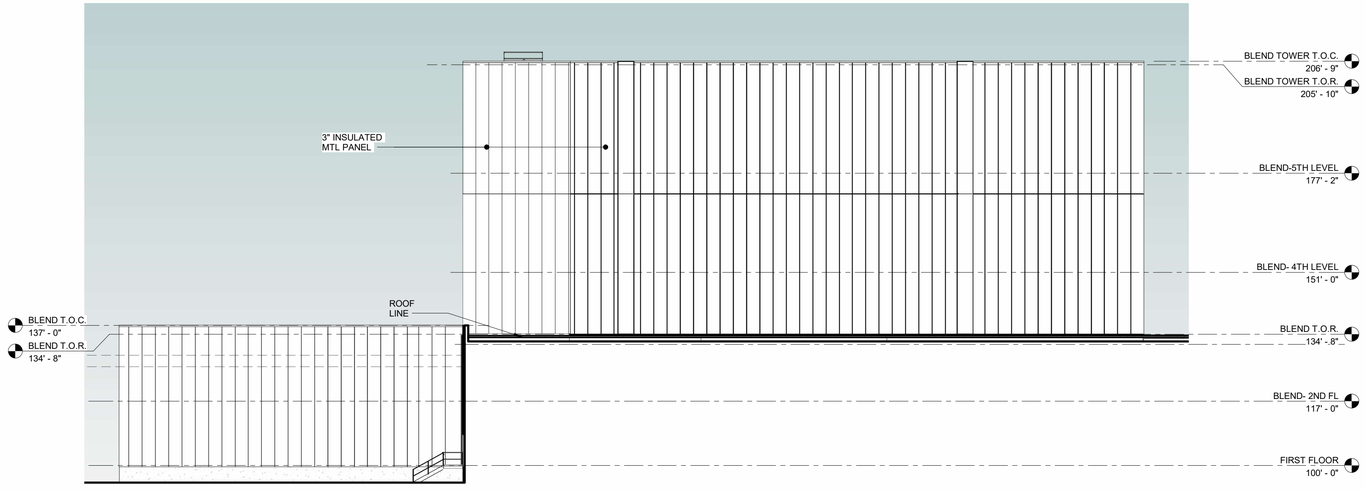
T.O.C.	TOP OF COPING PARAPET
T.O.R.	TOP OF ROOF
IPM-1	3" THICK INSULATED METAL PANEL. VERTICAL INSTALLATION. FINISH: TBD. COLOR: TBD.
IPM-2	3" THICK INSULATED METAL PANEL. VERTICAL INSTALLATION. FINISH: TBD. COLOR: TBD.



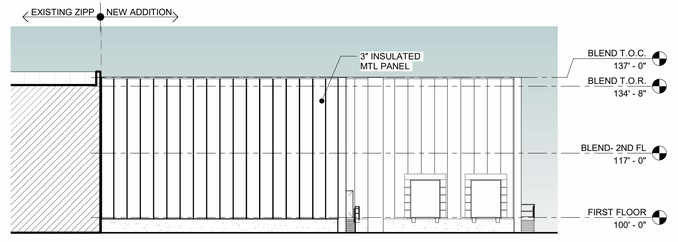
1 EXTERIOR ELEVATION - TOWER NORTH
ASK-009 SCALE: 1" = 20'-0"



2 EXTERIOR ELEVATION - TOWER EAST
ASK-009 SCALE: 1" = 20'-0"



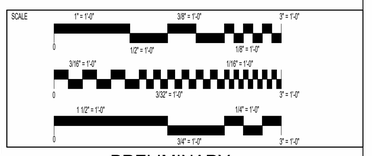
3 EXTERIOR ELEVATION - TOWER SOUTH
ASK-009 SCALE: 1" = 20'-0"



4 EXTERIOR ELEVATION - SOUTH
ASK-009 SCALE: 1" = 20'-0"

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DATE:

ENGINEER	ARCHITECT	REV BY	REV
	SRF	SGT	A

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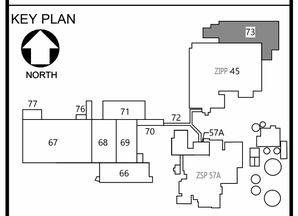
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Approved By	
Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

KEY PLAN



REV	DATE	DESCRIPTION	BY
A	02-APR-2026	SITE PLAN APPROVAL	SRF

Title: ZIPP B73 - EXTERIOR BUILDING ELEVATIONS

Project: ZSC VIVID
BUILDING 73 ZIPP ADDITION

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

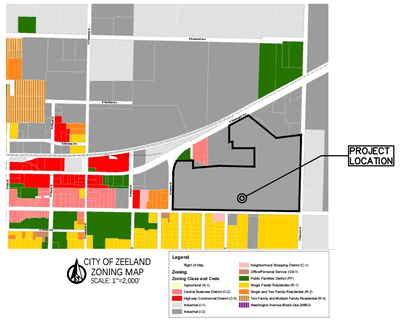
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CAR_NUMBER

SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			
DESIGNER:			RS
DRAFTER:			SC
VENDOR NAME:			
VENDOR PROJECT NUMBER:			
DISCIPLINE:			
SYSTEM NAME:			
SYSTEM NUMBER:			
EQUIPMENT TYPE:			
LEGACY NUMBER:		SHEET #	ASK-009
LEGACY DATE:			
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HARD COPY:			
DEPARTMENT:		SHEET:	

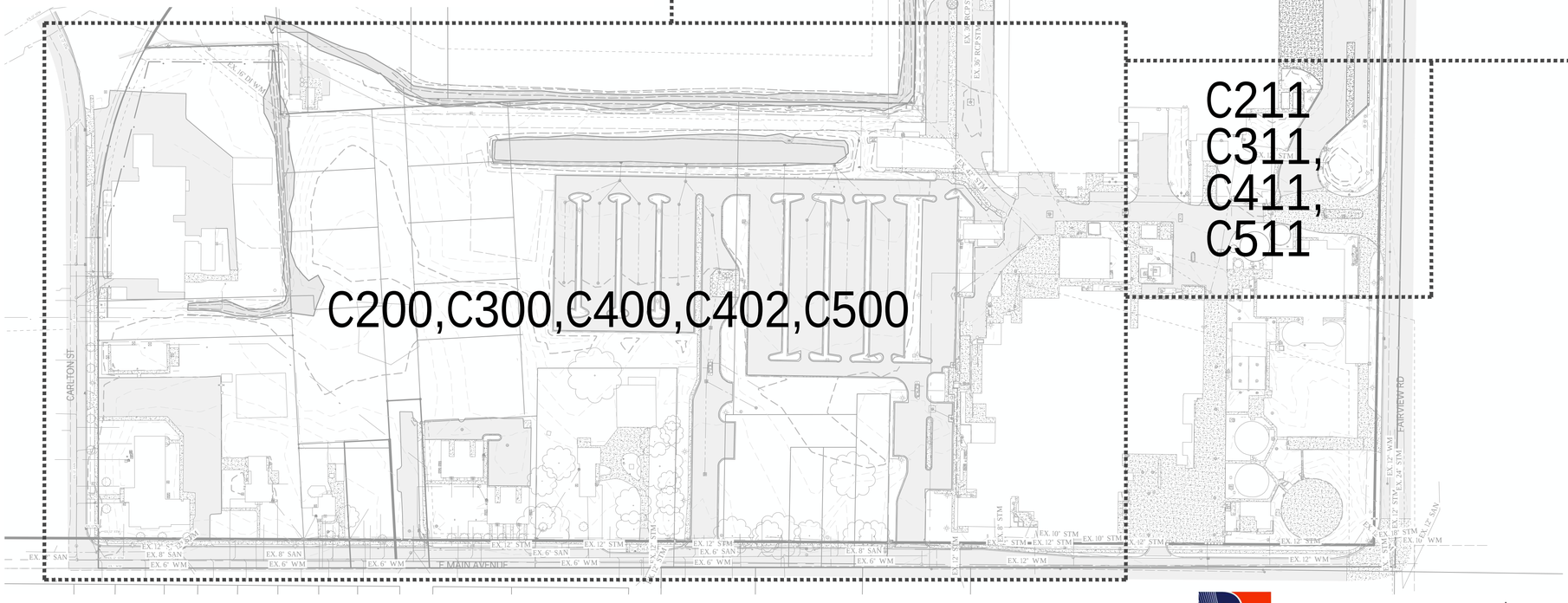
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Received: 04/06/26
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PROJECT SITE INFORMATION:
1) PARCEL ADDRESS: 725 E MAIN AVENUE
2) PARCEL NUMBER: 70-17-18-400-041
3) TOTAL ACREAGE: 45.38
4) ZONING: INDUSTRIAL (I-2)
5) FLOODPLAIN – N/A (THIS PROJECT NOT IN THE 100 YEAR FLOOD PLAIN, BASED ON THE FEMA NATIONAL FLOOD MAPS.)
6) ADJACENT ZONING – NORTH I-2, EAST I-1&I-2, SOUTH R-1,C-2&I-2, WEST I-2,R-2
7) SETBACKS – FRONT 50', SIDES 40', REAR 25'
8) BUILDING HEIGHT MAXIMUM 40', BUILDING HEIGHT PROPOSED >40'; VARIANCE REQUIRED
9) MAXIMUM LOT COVERAGE 60%, LOT COVERAGE PROPOSED 37%
10) SIGNAGE, LIGHTING, AND LANDSCAPING SHALL MEET MUNICIPAL REQUIREMENTS.
11) SCREENING: ALL TRASH RECEPTACLES ARE INSIDE THE BUILDING. THERE ARE SOME RECYCLE COMPACTORS PLANNED FOR OUTSIDE THE BUILDING THAT WILL BE SCREENED FROM MAIN STREET BY AN ADJACENT RETAINING WALL AS WELL AS LANDSCAPING ALONG MAIN AND CARLTON.
12) USEABLE FLOOR AREA: MAIN BLDG – BLDG 66,67,68,69,70,71, & 77= 501,477 SF (6 STORIES) ZIPP ADDITION – BLDG 73 = 117,928 SF (5 STORIES)
13) OCCUPANTS AT PEAK USAGE: SHIFT CHANGES OCCUR AT 6AM AND 6PM AND CONSIST OF 165 EMPLOYEES AT A TIME. OFFICE EMPLOYEES WORK FROM 8AM TO 5PM AND ACCOUNT FOR 171 EMPLOYEES. THE MAXIMUM NUMBER OF OCCUPANTS WITHIN THE BUILDING AT ONE TIME WILL BE 165 + 171 = 336 EMPLOYEES. THERE IS A ONE HOUR BUFFER BETWEEN THE OFFICE EMPLOYEES LEAVING THE FACILITY AT 5PM AND THE NEXT SHIFT CHANGE AT 6PM. 385 PARKING SPACES HAVE BEEN PROVIDED ACCOUNTING FOR REGULAR EMPLOYEES, VISITORS, AND SHIFT CHANGES. PARKING CALCULATIONS ARE PROVIDED ON SHEET C300.



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SCALE: 1" = 100'
0' 50' 100' 150' 200'

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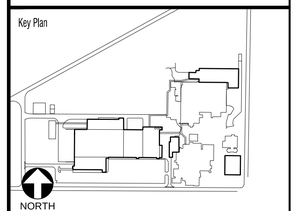
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Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DRAWING INDEX MAP

project: VIVID

location: ZEELAND, MI

C.A.R. OR P.O NUMBER			
SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			AOS
DESIGNER:			DGL
DRAFTER:			MDS
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GL025120
DISCIPLINE:			CIVIL
SYSTEM NAME:			-
SYSTEM NUMBER:			-
EQUIPMENT TYPE:			-
LEGACY NUMBER:			
LEGACY DATE:			
LEGACY VENDOR:			
CAD FILE NAME:			
HARD COPY:			
DEPARTMENT:			

SHEET #
25GST-1473-C100-DRAWING INDEX MAP

DRAWING NUMBER
C100

SHEET: 2 OF 36

Received: 04/06/26
City of Zeeland, MI



LOCATION MAP
NOT TO SCALE

SURVEYOR'S NOTES

1) Flood Zone Classification: **An examination of the National Flood Insurance Program's Flood Insurance Rate Map for Community Number 260983, Panel Number 309, with an Effective Date of 12-16-2011, Map number 26139C0309E, shows this parcel to be located in Zone "X" Area of minimal flood hazard (subject to map scale uncertainty).**
2) Utility data shown hereon is a combination of as located utility flags and linework from a client provided CAD file. Nederveld Inc. makes no warranty to the accuracy or completeness of the provided utility information. Lacking excavation, the exact location of underground features cannot be accurately, completely, and reliably depicted. In addition, in some jurisdictions, 811 or other similiar utility locate requests from surveyors may be ignored or result in an incomplete response. Where additional or more detailed information is required, the client is advised that excavation may be necessary.
3) NOTE TO CONTRACTORS: 3 (THREE) WORKING DAYS BEFORE YOU DIG, CALL MISS DIG AT TOLL FREE 1-800-482-7171 FOR UTILITY LOCATIONS ON THE GROUND.
4) Wetland information was provided per client CAD file. At time of survey there were no delineated wetlands on site.
5) A portion of this survey was performed during a period of snow and ice covering. While every effort was made to locate all features, snow and/or ice may have prevented all features from being visible.

BENCHMARKS

BENCHMARK #501 ELEV. = 652.11 (NAVD 88)
SOUTHWEST FLANGE BOLT UNDER "CITY" ON HYDRANT 3' WEST OF TOP OF CURB OF FAIRVIEW ST. AND 80' ± SOUTH OF CENTERLINE OF "RECKITT" DRIVE ENTRANCE

BENCHMARK #1039 ELEV. = 654.05 (NAVD 88)
FLANGE BOLT ON HYDRANT UNDER "I" OF "1993", 4.5' WEST OF EDGE OF ASPHALT, 946'± NORTH OF SOUTHEAST CORNER OF SECTION 18, TOWN 5NORTH, RANGE 14 WEST

BENCHMARK #1402 ELEV. = 652.07 (NAVD 88)
FLANGE BOLT ON HYDRANT UNDER "TRAVERSE", 568' ± NORTH AND 316' ± WEST OF SOUTHEAST CORNER OF SECTION 18, TOWN 5 NORTH, RANGE 14 WEST

BENCHMARK #2039 ELEV. = 652.93 (NAVD 88)
FLANGE BOLT ON HYDRANT UNDER "MADE", 399' ± NORTH AND 617' ± WEST OF SOUTHEAST CORNER OF SECTION 18, TOWN 5 NORTH, RANGE 14 WEST

BENCHMARK #3171 ELEV. = 653.79 (NAVD 88)
FLANGE BOLT ON HYDRANT ABOVE "MUELLER", 341' ± NORTH AND 174' ± WEST OF SOUTHEAST CORNER OF SECTION 18, TOWN 5 NORTH, RANGE 14 WEST

BENCHMARK #3199 ELEV. = 653.05 (NAVD 88)
FLANGE BOLT ON HYDRANT UNDER "TRAVERSE", 297' ± NORTH AND 254' ± WEST OF SOUTHEAST CORNER OF SECTION 18, TOWN 5 NORTH, RANGE 14 WEST

BENCHMARK #6201 ELEV. = 650.65 (NAVD 88)
FLANGE BOLT UNDER "A" OF "USA" ON HYDRANT, SOUTHWEST OF INTERSECTION OF E. MAIN AVE. AND N. CARLTON ST.

BENCHMARK #16051 ELEV. = 654.34 (NAVD 88)
FLANGE BOLT UNDER "A" OF "USA" ON HYDRANT, 32' ± SOUTH OF CENTERLINE E. MAIN AVE. & 33' ± WEST OF CENTERLINE DIVISION ST.

DESCRIPTION

Proposed New Overall Description:
Part of the Plat of Nagelkirk Addition to the City of Zeeland as recorded in Liber 14 of Plats, Page 11, Ottawa County Records and part of the Southeast 1/4 of Section 18, Town 5 North, Range 14 West, City of Zeeland, Ottawa County, Michigan, described as: Beginning at the Southeast corner of said Section; thence S89°55'55"W 1975.45 feet along the South line of said Section; thence N00°02'20"W 503.58 feet along the East line of N. Carlton Street; thence continuing along said East line Northeasterly 301.21 feet along a 603.21 foot radius curve to the right, said curve having a central angle of 28°36'37", and a chord bearing N14°03'37"E 298.09 feet; thence N88°30'57"E 201.60 feet; thence S02°15'12"E 106.14 feet to the Northwest corner of said Plat; thence N86°54'08"E 349.75 feet along the North line of said Plat to the Northeast corner thereof; thence N86°57'22"E 47.14 feet; thence N00°44'40"E 0.62 feet; thence S89°27'00"E 568.62 feet; thence N00°58'45"E 282.41 feet; thence S89°55'55"W 342.25 feet; thence N00°58'45"E 56.83 feet; thence N00°58'45"E 250.00 feet; thence N61°13'11"E 262.75 feet along the Southeasterly line of E. Washington Street; thence Southeasterly along the Southwesterly line of the former Chesapeake and Ohio Railroad spur track per HEI survey no. 79-02-050 dated 3-2-79, 613.25 feet along a 467.47 foot radius curve to the right, said curve having a central angle of 75°10'06", and a chord bearing S53°58'09"E 570.25 feet; thence N82°19'44"E 21.68 feet; thence Northwesterly along the Northeasterly line of the former Chesapeake and Ohio Railroad spur track per Quit Claim Deed 2009-0039837 recorded 10-02-09, 9.14 feet along a 497.52 foot radius curve to the left, said curve having a central angle of 01°03'09", and a chord bearing N17°34'37"W 9.14 feet; thence N81°16'06"E 429.74 feet; thence S00°59'06"W 1202.90 feet along the East line of said Section to the Point of Beginning. Contains 45.38 acres. Subject to easements, restrictions and rights-of-way of record. Also subject to highway right-of-way for Fairview Street over the most Easterly 33.00 feet thereof. Also subject to highway right-of-way for E. Main Avenue for that portion lying South of a line 33.00 feet North of and parallel to the centerline of said road, said centerline bearing N89°42'20"W from the Southeast corner of said Section.



0' 75' 150' 300'
~~SCALE: 1" = 150'~~
SCALE: 1" = 200'

811 Know what's **below.** **CALL** before you dig.

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR MARKINGS BY OTHERS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

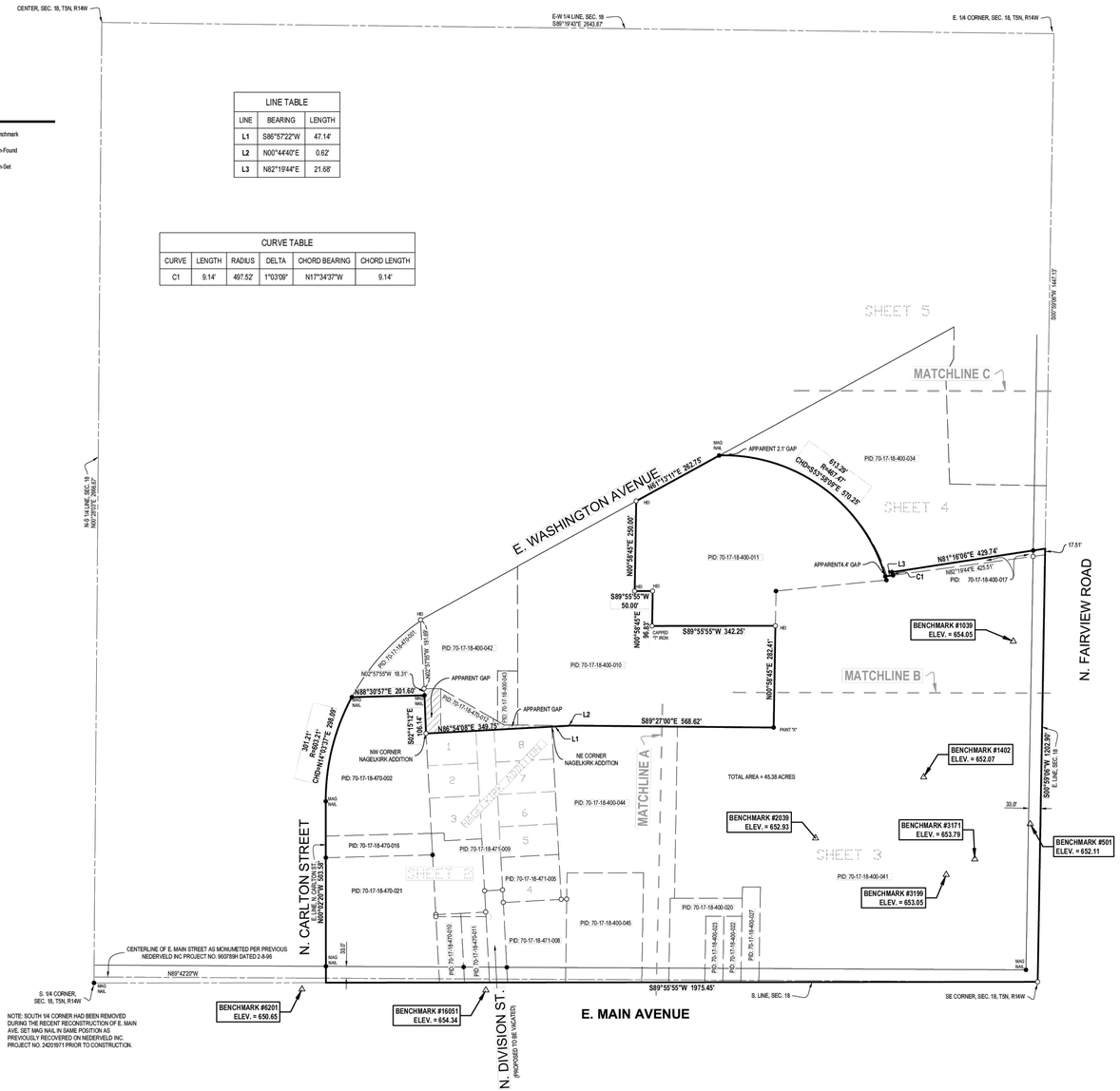
NOTE:
EXISTING UTILITIES AND SERVICE LINES IDENTIFIED AS "PLANS" WERE OBTAINED FROM AVAILABLE CITY AS-BUILT RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND STATUS OF ALL UTILITIES AND SERVICE LINES PRIOR TO NEW CONNECTIONS.

LEGEND

- △ Benchmark
- ○ Iron-Found
- ● Iron-Set

LINE TABLE		
LINE	BEARING	LENGTH
L1	S86°57'22"W	47.14'
L2	N00°44'40"E	0.62'
L3	N82°19'44"E	21.68'

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C1	9.14'	497.52'	1°03'09"	N17°34'37"W	9.14'



NOTE: SOUTH 1/4 CORNER HAD BEEN REMOVED DURING THE RECENT RECONSTRUCTION OF E. MAIN AVE. SET MAG NAIL IN SAME POSITION AS PREVIOUSLY RECOVERED ON NEDERVELD INC. PROJECT NO. 24201971 PRIOR TO CONSTRUCTION.

NEDERVELD
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Grand Rapids, MI 49503
Phone: 616.575.5190
ANN ARBOR
3057 Miller Rd.
Ann Arbor, MI 48103
Phone: 734.929.6963

PREPARED FOR:
Reckitt Zeeland
Aaron Holder

725 E Main Ave
Zeeland, MI 49464

CREATED:
Drawn: BS Date: 5-30-25

REVISIONS:
Rev: UTILITIES, WETLANDS
Drawn: BS Date: 7-22-25
Rev: STORM, BOUNDARY
Drawn: BS Date: 11-11-25
Rev: BOUNDARY & DESCRIPTION
Drawn: BS Date: 11-18-25
Rev: ADDITIONAL TOPO, EASEMENTS
Drawn: BS Date: 12-9-25

Mead Johnson-Zeeland
Topographic Survey
E. MAIN AVE.
PART OF THE SOUTHEAST 1/4 OF SECTION 18, T5N, R14W,
CITY OF ZEELAND, OTTAWA COUNTY, MICHIGAN

STAMP:
Matthew Scott Hendges License No. 4001047963 PROFESSIONAL ENGINEER

PROJECT NO:
25200662

SHEET NO:
T0.4
SHEET: 1 OF 5

PIERCE ENGINEERS
181 N. Broadway Ave
Milwaukee, WI 53202
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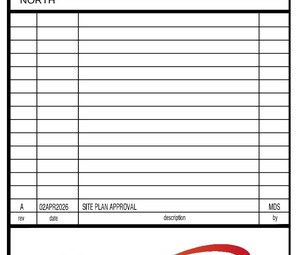
ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

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SUITE 240
LEAWOOD, KS 66206
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www.ipsdb.com
IPS PROFESSIONAL ENGINEERS AND ARCHITECTS, PC.

Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: EXISTING CONDITIONS
project: VIVID
location: ZEELAND, MI

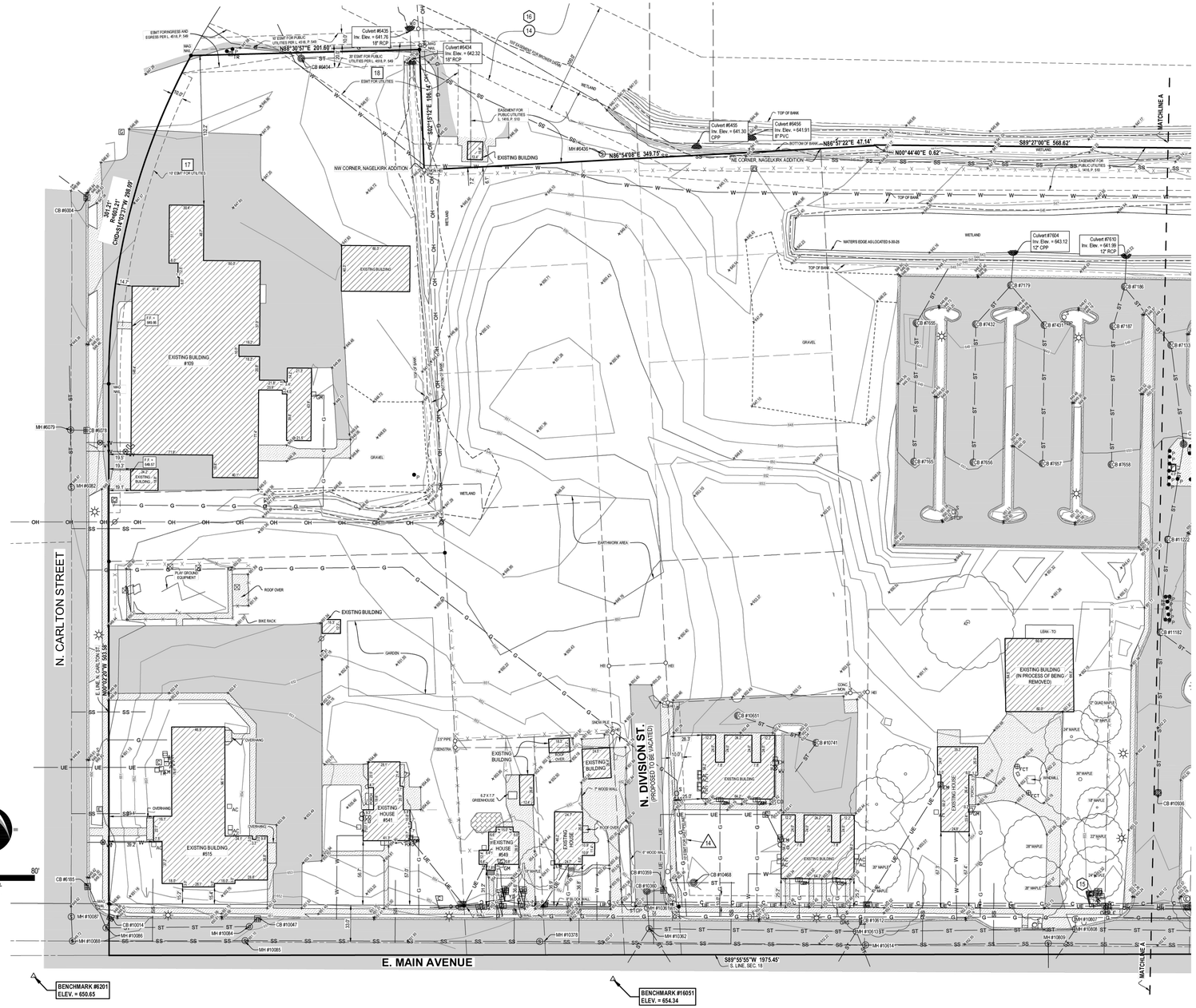
C.A.R. OR P.O. NUMBER:			
SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			AOS
DESIGNER:			DGL
DRAFTER:			MDS
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GL025120
DISCIPLINE:			CIVIL
SYSTEM NAME:			-
SYSTEM NUMBER:			-
EQUIPMENT TYPE:			-
LEGACY NUMBER:			
LEGACY DATE:			
LEGACY VENDOR:			
CAD FILE NAME:			
HARD COPY:			
DEPARTMENT:			

SHEET #: 25SST-1473-C101-EXISTING CONDITIONS
DRAWING NUMBER: C101
SHEET: 3 OF 36

Received: 04/06/26
City of Zeeland, MI

LEGEND

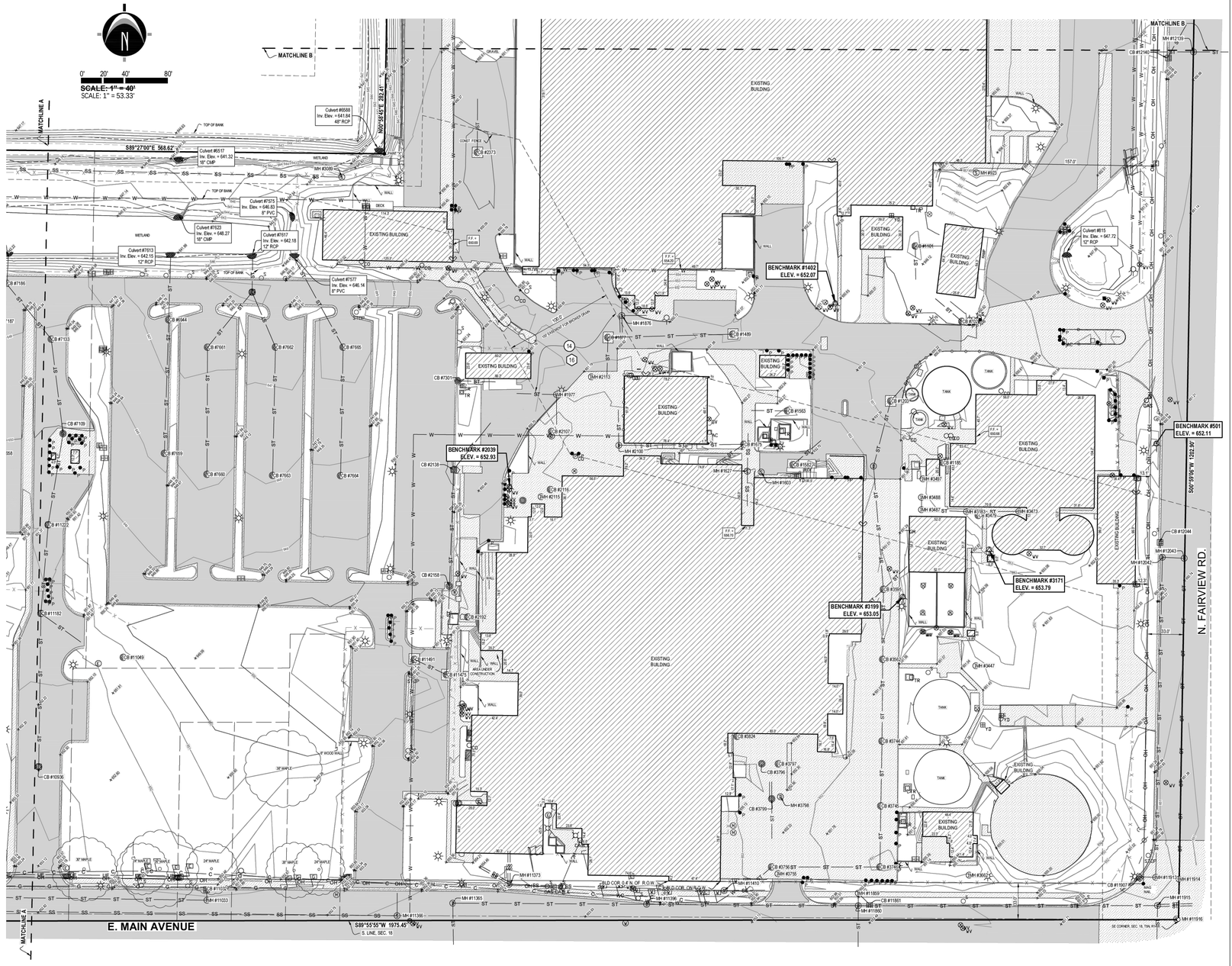
- AC — Air Conditioning
- Catch Basin - Round
- Catch Basin - Square
- CO — Cleanout
- Control Point/ Benchmark
- Cable Riser
- Culvert
- Deciduous Tree
- DM — Electric Meter
- Electric Manhole
- Electric Riser
- FCT — Faucet
- Fire Department Connection
- Flag
- GM — Gas Meter
- Gas Riser
- GV — Gas Valve
- Guy Anchor
- Handhole
- Hydrant
- Iron-Found
- Iron-Set
- Light Pole
- MB — Mailbox
- Miss Dig Flag - Cable
- Miss Dig Flag - Electric
- Miss Dig Flag - Gas
- Miss Dig Flag - Water
- Manhole
- P — Post
- Utility Pole
- S — Sign
- STOP — Stop Sign
- S — Sanitary Manhole
- Storm Manhole
- TR — Transformer
- Manhole
- Utility Pole
- CABLE — Underground Fiber Marker
- GAS — Underground Gas Marker
- Water Manhole
- VV — Water Valve
- YD — Yard Drain
- Yard Light
- C — Cable TV Line
- UE — Electric Underground Line
- Fence
- G — Gas Line
- Guard Rail Line
- SS — Sanitary Line
- ST — Storm Line
- OH — Overhead Utility
- W — Watermain
- Asphalt
- Brick
- Existing Building
- Concrete
- Misc. Structure
- Bench


N. CARLTON STREET
E. MAIN AVENUE
N. DIVISION ST.
(PROPOSED TO BE VACATED)
NW CORNER, NAGELKIRK ADDITION
NE CORNER, NAGELKIRK ADDITION
N88°30'57"E 201.50'
S02°01'12"E 106.14'
N86°54'08"E 349.75'
N86°57'22"E 47.14'
N00°44'40"E 0.62'
S89°27'00"E 568.62'
S89°55'55"W 1975.45'
S. LINE, SEC. 18
N00°42'24"W 90.58'
E. LINE, N. CARLTON ST.
EXISTING BUILDING #109
EXISTING BUILDING #655
EXISTING HOUSE #649
EXISTING HOUSE #541
EXISTING BUILDING (IN PROCESS OF BEING REMOVED)
EXISTING BUILDING
EXISTING HOUSE
PLAY GROUND EQUIPMENT
ROOF OVER
BIKE RACK
GARDEN
GRAVEL
WETLAND
EARTHWORK AREA
TOP OF BANK
BOTTOM OF BANK
WATERS EDGE AS LOCATED 9-30-25
EASEMENT FOR PUBLIC UTILITIES L. 645, P. 915
30' EASEMENT FOR PUBLIC UTILITIES PER L. 609, P. 945
EASEMENT FOR PUBLIC UTILITIES L. 645, P. 945
12' EMHT FOR UTILITIES
EMHT FOR UNDERGROUND AND OVERHEAD ELECTRIC
EMHT FOR OVERHEAD AND UNDERGROUND ELECTRIC AND ACCESS
EASEMENT FOR PUBLIC UTILITIES L. 609, P. 915
Culvert #6435 Inv. Elev. = 641.76 18" RCP
Culvert #6434 Inv. Elev. = 642.32 18" RCP
Culvert #6456 Inv. Elev. = 641.91 8" PVC
Culvert #6459 Inv. Elev. = 641.30 CPP
Culvert #7604 Inv. Elev. = 643.12 12" CPP
Culvert #7610 Inv. Elev. = 641.99 12" RCP
MH #6404
MH #6405
MH #6406
MH #6407
MH #6408
MH #6409
MH #6410
MH #6411
MH #6412
MH #6413
MH #6414
MH #6415
MH #6416
MH #6417
MH #6418
MH #6419
MH #6420
MH #6421
MH #6422
MH #6423
MH

Received: 04/06/26
City of Zeeland, MI

LEGEND

- Air Conditioning
- Catch Basin - Round
- Catch Basin - Square
- Cleanout
- Control Point/ Benchmark
- Cable Riser
- Culvert
- Deciduous Tree
- Electric Meter
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ANN ARBOR
3037 Miller Rd.
Ann Arbor, MI 48103
Phone: 734.929.8983

PREPARED FOR:
Reckitt Zeeland
Aaron Holder

725 E Main Ave
Zeeland, MI 49464

CREATED:
Drawn: BS Date: 5-30-25

REVISIONS:
Rev: UTILITIES, WETLANDS
Drawn: BS Date: 7-22-25
Rev: STORM, BOUNDARY
Drawn: BS Date: 11-11-25

Mead Johnson-Zeeland

Topographic Survey

E. MAIN AVE.
PART OF THE SOUTHEAST 1/4 OF SECTION 18, T5N, R14W,
CITY OF ZEELAND, OTTAWA COUNTY, MICHIGAN

STAMP:

PRELIMINARY

PROJECT NO:
25200662

SHEET NO:
TO.2

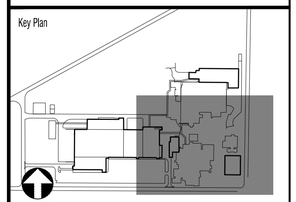
SHEET: 3 OF 5

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LEAWOOD, KS 66206
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www.ipsdb.com
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Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

PIERCE ENGINEERS
181 N. Broadway Ave
Milwaukee, WI 53202
414.278.6060
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DATE:

ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

MeadJohnson NUTRITION

title: EXISTING CONDITIONS

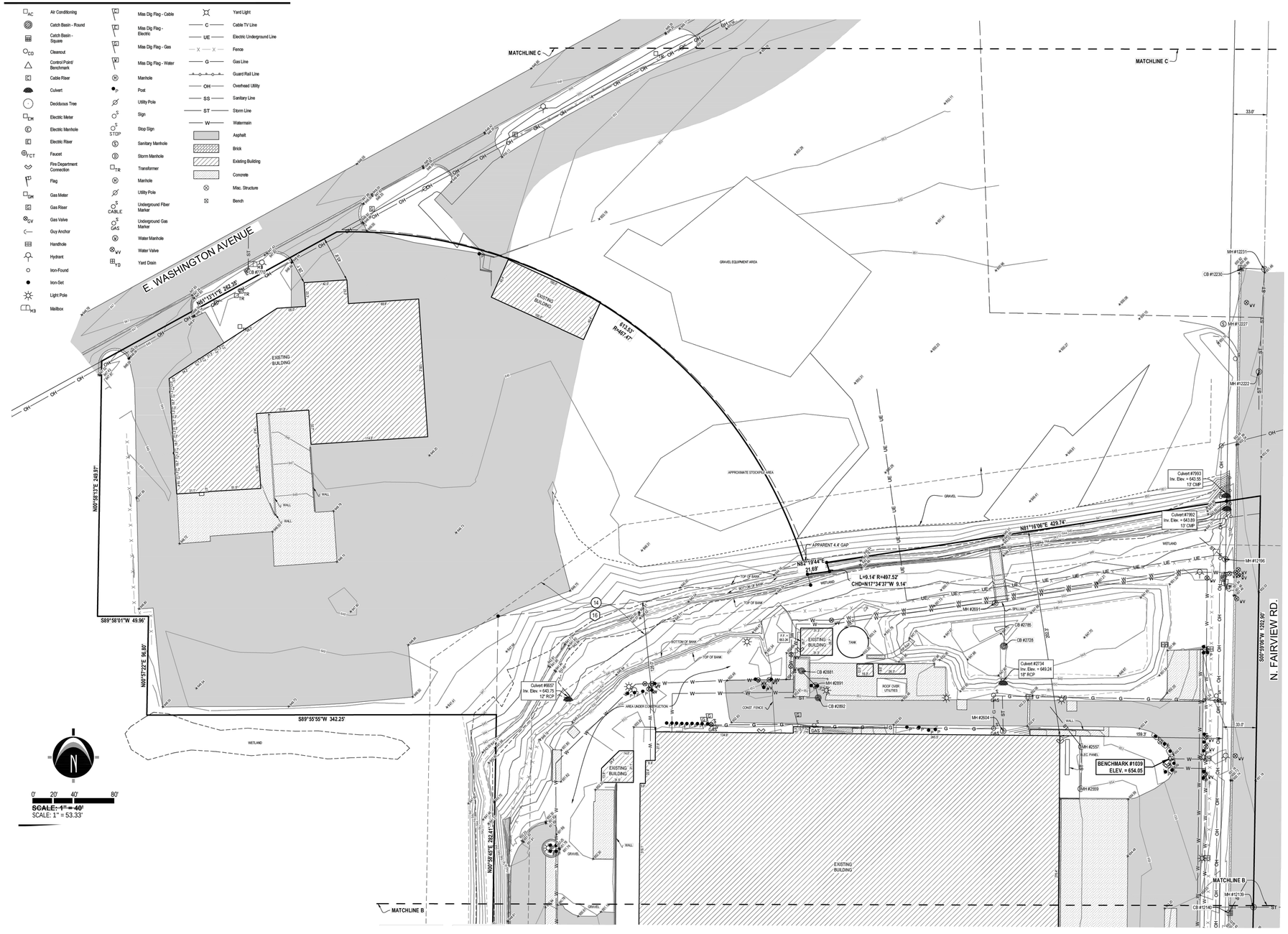
project: VIVID

location: ZEELAND, MI

C.A.R. OR P.O NUMBER			
SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			AOS
DESIGNER:			DGL
DRAFTER:			MDS
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GL005120
DISCIPLINE:			CIVIL
SYSTEM NAME:			-
SYSTEM NUMBER:			-
EQUIPMENT TYPE:			-
LEGACY NUMBER:			
LEGACY DATE:			
LEGACY VENDOR:			
CAD FILE NAME:			
HARD COPY:			
DEPARTMENT:			

SHEET #: 25SST-1472-C103-EXISTING CONDITIONS
DRAWING NUMBER: C103
SHEET: 5 OF 36

Received: 04/06/26
City of Zeeland, MI



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PREPARED FOR:
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Mead Johnson-Zeeland

Topographic Survey

E. MAIN AVE.
PART OF THE SOUTHEAST 1/4 OF SECTION 18, T5N, R14W,
CITY OF ZEELAND, OTTAWA COUNTY, MICHIGAN

STAMP:
PRELIMINARY

PROJECT NO:
25200662

SHEET NO:
TO.2

SHEET: 4 OF 5

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10601 MISSION ROAD
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LEAWOOD, KS 66206
913.345.9084 PHONE

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IPS PROFESSIONAL ENGINEERS AND ARCHITECTS, PC.

Approved by

Drafter / Designer mm/dd/yy

Project Manager mm/dd/yy

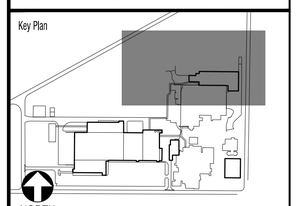
Quality Representative mm/dd/yy

Operation Manager mm/dd/yy

Maintenance Representative mm/dd/yy

Customer Representative / Document Manager mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

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ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

Mead Johnson NUTRITION

title: EXISTING CONDITIONS

project: VIVID

location: ZEELAND, MI

C.A.R. OR P.O NUMBER	
SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL005129
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	
HARD COPY:	
DEPARTMENT:	

SHEET #: 25057-1472-C104-EXISTING CONDITIONS
DRAWING NUMBER: C104
SHEET: 6 OF 36

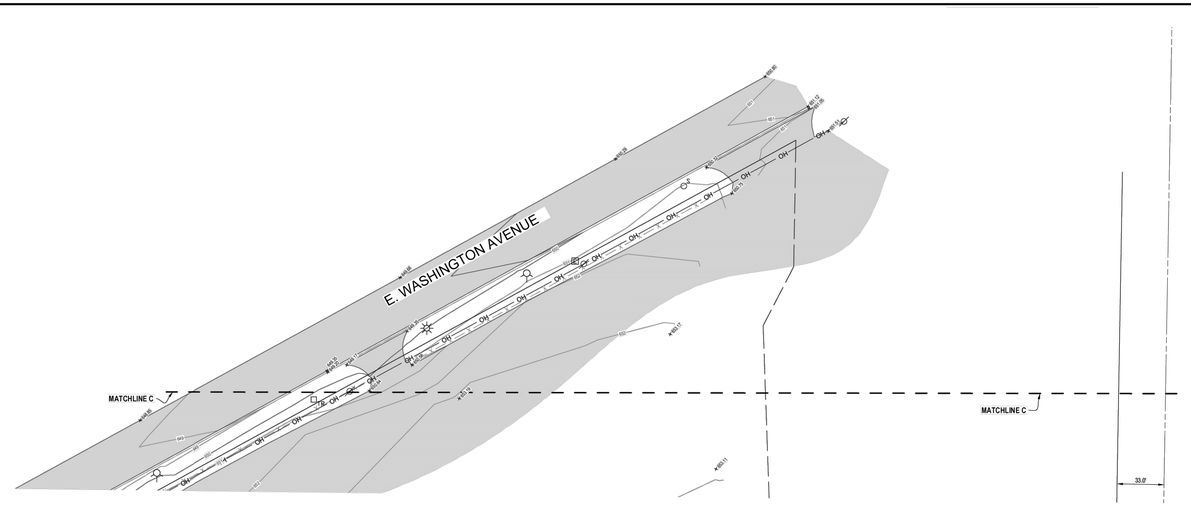
Received: 04/06/26
City of Zeeland, MI

STORM INVERTS

#	Structure Type	Rim Elevation	Size/Type/Direction	Invert Elevation	Notes
110	Catch Basin	646.93	8"PVC (NW)	646.68	-
1101	Catch Basin	646.64	12"CMP (E)	647.08	-
1185	Catch Basin	656.35	12"PVC (E)	647.58	-
			12"PVC (W)	647.58	-
1265	Catch Basin	650.43	12"PVC (E)	645.67	-
			18"PVC (S)	645.27	-
1256	Store Water Manhole	651.55	18"PVC (S)	646.37	-
1488	Catch Basin	650.79	18"PVC (N)	646.17	-
1583	Catch Basin	651.58	8" PVC (W)	646.83	-
1582	Catch Basin	652.45	8"PCP (NE)	650.02	-
1675	Catch Basin	652.44	8"PVC (NW)	648.64	-
			8"PVC (W)	648.64	-
1677	Catch Basin	650.28	12"PVC (E)	647.78	-
			12"PVC (E)	647.62	-
1673	Store Water Manhole	651.46	12"RCP (W)	644.52	-
			12"RCP (E)	645.01	-
2183	Store Water Manhole	652.59	18"PVC (E)	645.31	-
			18"PVC (W)	645.31	-
2187	Catch Basin	651.19	8" PVC (E)	648.59	TOP OF PIPE (CAPPED)
2188	Store Water Manhole	651.18		650.44	WATER LEVEL
2113	Store Water Manhole	651.38		645.04	WATER LEVEL, UNKT SEE PIPES
			8"PVC (NE)	647.03	-
2115	Store Water Manhole	651.35	12"RCP (NW)	647.05	-
			12"RCP (N)	647.05	-
2110	Catch Basin	651.20	8" PVC (NW)	647.01	-
			8" PVC (SW)	647.01	-
2139	Catch Basin	648.69	12"RCP (E)	645.81	-
			12"RCP (S)	645.81	-
2138	Catch Basin	650.34	12"RCP (E)	646.89	-
			12"RCP (N)	647.21	-
2182	Catch Basin	648.75	8" PVC (W)	644.75	WATER LEVEL
2173	Catch Basin	648.54	18"RCP (N)	644.64	-
2552	Store Water Manhole	654.64	12"RCP (NW)	646.51	-
			12"RCP (S)	646.62	-
2559	Store Water Manhole	654.65	12"RCP (N)	646.77	-
3564	Store Water Manhole	652.60	12"RCP (N)	644.77	-
3126	Catch Basin	647.35	12"RCP (N)	644.17	-
			12"RCP (N)	644.03	-
2641	Catch Basin	651.08	? (E)	646.58	WATER LEVEL
2640	Store Water Manhole	652.98	? (S)	646.63	WATER LEVEL
3566	Store Water Manhole	652.70	24"RCP (NW)	644.74	-
3566	Miscellaneous Manhole	648.30			BOLTED SHUT
			18"PVC (W)	644.18	-
3165	Store Water Manhole	650.72	18" PVC (E)	644.51	-
			18"RCP (S)	644.18	CHANNEL
			18"RCP (N)	644.18	CHANNEL
			12"RCP (NW)	645.25	-
3442	Store Water Manhole	651.92	12"RCP (N)	646.41	CHANNEL
			18"RCP (S)	644.75	CHANNEL
			18"RCP (W)	646.41	-
3473	Store Water Manhole	650.66	12" CMP (N)	645.62	-
3479	Catch Basin	650.17	? (E)	647.60	WATER LEVEL
3478	Store Water Manhole	651.18	? (N)	-	WATER LEVEL, UNKT SEE PIPE
3466	Store Water Manhole	651.18	? (S)	-	CAN NOT BE LOCATED
3467	Store Water Manhole	651.26	?	-	NOT ACCESSIBLE
3562	Catch Basin	651.15	12"RCP (S)	646.41	-
			12"RCP (N)	646.41	-
			12"RCP (W)	646.41	-
3585	Catch Basin	650.66	12"RCP (NE)	647.06	-
			12"RCP (S)	647.06	-
3562	Store Water Manhole	651.15	? (S)	648.65	WATER LEVEL
3744	Catch Basin	652.30	12"RCP (S)	646.80	-
			12"RCP (S)	650.03	-
3745	Catch Basin	651.88	12"RCP (S)	648.80	-
			12"RCP (N)	648.80	-
3746	Catch Basin	650.78	12"RCP (W)	646.18	-
			12"RCP (N)	646.18	-
3755	Store Water Manhole	652.03			RUBBER PIPING COMING FROM NORTH GOING EAST
3759	Catch Basin	652.63	12"RCP (SW)	648.68	-
			12"RCP (E)	648.75	-
3760	Catch Basin	652.24	? (S)	-	12" ADS FULL PIPE
3757	Store Water Manhole	652.24	? (N)	-	12" ADS FULL PIPE
3758	Store Water Manhole	652.46	? (E)	-	WATER PUMP
			12" PVC (N)	646.23	-
3769	Catch Basin	651.83	12"RCP (S)	648.53	-
			12"PVC (E)	648.13	-
3634	Catch Basin	652.41	12"RCP (W)	646.91	-
6004	Catch Basin	648.43	12"RCP (NW)	644.93	-
6079	Catch Basin	648.52	12"RCP (W)	644.69	-
			12"RCP (E)	644.69	-
6079	Store Water Manhole	648.15	12"RCP (E)	644.70	-
			12"RCP (N)	645.06	-
6185	Catch Basin	648.22	12"X17"(UIE)	645.65	-
6464	Catch Basin	648.94	8" CPP (E)	646.19	-
6548	Catch Basin	648.24	18" CPP (E)	645.74	-
			18" CPP (N)	645.40	-
7109	Catch Basin	648.98	18" CPP (S)	644.72	-
			18" CPP (N)	644.72	-
7133	Catch Basin	648.13	30" CPP (NW)	643.55	-
7165	Catch Basin	648.60	12" CPP (E)	644.20	-
			12" CPP (W)	644.08	-
7179	Catch Basin	648.91	30" CPP (SW)	643.63	-
			12" CPP (E)	643.63	-
			12" CPP (W)	643.63	-
7190	Catch Basin	648.13	12" CPP (SW)	645.64	-
			18" CPP (N)	645.64	-
7187	Store Water Manhole	648.91	12"RCP (NE)	644.75	-
7201	Catch Basin	648.17	12"RCP (E)	647.65	-
7431	Catch Basin	648.71	12" CPP (S)	644.70	-
			12" CPP (N)	644.70	-
7432	Catch Basin	648.68	12" CPP (S)	645.21	-
			12" CPP (N)	645.21	-
7555	Catch Basin	648.17	12" CPP (NE)	644.68	-
7556	Catch Basin	648.99	12" CPP (E)	644.74	-
7557	Catch Basin	648.98	12" CPP (W)	645.06	-
7558	Catch Basin	650.15	12" CPP (W)	646.59	-
7559	Catch Basin	648.75	12" CPP (W)	646.53	-
7560	Catch Basin	648.73	12" CPP (W)	644.52	-
			12" CPP (E)	644.52	-
7561	Catch Basin	648.37	12" CPP (S)	645.22	-
7562	Catch Basin	648.14	12" CPP (NW)	645.02	-
7563	Catch Basin	648.95	12" CPP (N)	644.55	-
7564	Catch Basin	648.14	12" CPP (NW)	645.04	-
7645	Catch Basin	648.46	12" CPP (E)	645.36	-
7770	Catch Basin	648.28	12"RCP (E)	644.58	-
10318	Catch Basin	648.28	12"RCP (SW)	645.48	-
10547	Catch Basin	650.19	12"RCP (NW)	646.69	-
			12"RCP (E)	646.43	-
10564	Store Water Manhole	650.97	12"RCP (NE)	646.43	-
			12"RCP (NW)	646.18	-
10566	Store Water Manhole	648.73	12"RCP (SW)	646.03	-
			12"RCP (W)	646.03	-
10559	Catch Basin	652.06	12" CPP (E)	646.17	-
			12" CPP (E)	646.03	-
10560	Catch Basin	651.96	18"RCP (E)	646.03	-
			18"RCP (S)	645.96	-
10561	Store Water Manhole	652.33	18"RCP (S)	646.03	-
			18"RCP (W)	646.03	-
10562	Store Water Manhole	652.33	12"RCP (SW)	646.58	-
			18"RCP (E)	646.77	-
10563	Catch Basin	651.15	12" CPP (E)	646.15	-
			12" CPP (W)	646.03	-
10468	Catch Basin	651.15	12" CPP (E)	646.06	-
10512	Catch Basin	651.64	12"RCP (SW)	647.64	-
			12"X17"(UIE)	647.57	-
10513	Store Water Manhole	652.92	18"RCP (NE)	647.42	-
			18"RCP (W)	647.47	-
10551	Catch Basin	651.52	18"RCP (E)	647.57	-
10741	Catch Basin	651.24	12" CPP (E)	646.64	-
			12" CPP (SW)	646.64	-
10867	Store Water Manhole	652.61	12" PVC (E)	646.21	-
			12"RCP (SW)	646.26	-
10808	Store Water Manhole	652.62	18"RCP (W)	646.19	-
			12"RCP (E)	646.26	-
10936	Catch Basin	652.67	12" CPP (E)	646.17	-
11032	Catch Basin	651.64	18" PVC (S)	646.07	-
			12"RCP (W)	646.58	-
11023	Store Water Manhole	652.75	12"RCP (S)	646.68	-
			8" PVC (E)	646.68	-
11049	Catch Basin	651.33			COULD NOT OPEN
11182	Catch Basin	651.30	12" CPP (E)	646.42	-
			12" CPP (S)	646.50	-
			12" CPP (W)	646.42	-
11222	Catch Basin	650.59	18" CPP (E)	645.49	-
			18" CPP (W)	645.49	-
11305	Store Water Manhole	653.38	12"RCP (E)	646.03	-
			12"RCP (SW)	646.03	-
11394	Store Water Manhole	653.48	12"RCP (W)	646.15	-
			18"RCP (E)	647.49	-
11475	Catch Basin	651.41	8" PVC (NW)	647.25	-
11481	Catch Basin	650.75	12" PVC (E)	647.25	-
11859	Store Water Manhole	652.70	12"RCP (E)	647.51	-
			12"RCP (SW)	647.54	-
11860	Store Water Manhole	652.48	24"RCP (E)	646.99	-
			24"RCP (W)	647.03	-
11901	Catch Basin	652.19	12"RCP (NW)	646.79	-
11907	Catch Basin	650.64	12"RCP (E)	646.73	-
11913	Store Water Manhole	650.67	12"RCP (W)	646.32	-
			12"RCP (E)	646.32	-
11914	Store Water Manhole	651.65	18"RCP (W)	647.24	-
			24"RCP (N)	647.24	-
11915	Store Water Manhole	651.65	12"RCP (E)	646.25	-
			12"RCP (E)	646.25	-
			18"RCP (S)	646.14	-
			12"RCP (NW)	645.08	-
12042	Store Water Manhole	650.20	18"RCP (W)	644.05	-
			12"RCP (E)	644.05	-
			12"RCP (E)	644.41	-
			24"RCP (W)	645.11	-
12043	Store Water Manhole	650.61	24"RCP (E)	645.11	-
			24"RCP (N)	645.11	-
12044	Catch Basin	648.99	12"X17"(UIE)	647.09	-
12139	Store Water Manhole	650.57	12"PVC (W)	646.09	-
12140	Catch Basin	648.90	12"PVC (NW)	646.56	-
12186	Store Water Manhole	652.98	18"RCP (NW)	645.16	-
			18"RCP (E)	645.33	-
12202	Store Water Manhole	652.25	12"RCP (S)	646.33	-
12233	Catch Basin	650.80	12"RCP (E)	647.54	-
12231	Store Water Manhole	651.46	12"RCP (W)	647.30	-
			12"RCP (N)	647.37	-
7291	Catch Basin	646.69	12" CPP (E)	642.40	-
			12" CPP (SW)	642.40	-
10004	Store Water Manhole	651.56	12"RCP (S)	647.56	-
			12"RCP (E)	647.51	-

SANITARY INVERTS

#	Structure Type	Rim Elevation	Size/Type/Direction	Invert Elevation
923	Sanitary Sewer Manhole	656.53	12" RCP (S)	646.88
			8"PVC (N) -	646.98
			8"PVC (N)	646.64
1627	Sanitary Sewer Manhole	653.10	8"PVC (S)	649.90
			8"PVC (N)	649.55
			8"PVC (S) -	647.12
1876	Sanitary Sewer Manhole	650.88	8"PVC (SE)	647.55
			8"PVC (E)	646.26
			8"PVC (S)	647.15
			8"PVC (N)	646.46
10080	Sanitary Sewer Manhole	651.05	8"PVC (W)	641.73
			8"PVC (E)	641.85
10097	Sanitary Sewer Manhole	649.00	8"PVC (E) -	641.15
			8"PVC (N)	641.21
10098	Sanitary Sewer Manhole	649.72	8"PVC (E)	641.23
			8"PVC (N) -	641.13
10378	Sanitary Sewer Manhole	652.43	8"PVC (E)	643.51
			8"PVC (E)	643.11
			8"PVC (W)	644.22
10614	Sanitary Sewer Manhole	652.23	8"PVC (E)	644.35
			8"PVC (N)	645.23
10809	Sanitary Sewer Manhole	652.77	8"PVC (W)	644.95
			8"PVC (E) -	645.13
			8"PVC (E) -	645.52
11306	Sanitary Sewer Manhole	653.14	8"PVC (W)	647.20
			8"PVC (N)	647.20
12227	Sanitary Sewer Manhole	650.84	8"PVC (NE) -	643.43
11373	Sanitary Sewer Manhole	653.94	12" Cast Iron (E)	648.82
			8" Cast Iron (N)	650.64
			8" Cast Iron (N)	648.91
			12" Cast Iron (NW)	648.09
			12" Cast Iron (NW)	650.94
			12" Cast Iron (E)	650.83
11410	Sanitary Sewer Manhole	653.30	12" Cast Iron (N)	646.71
			12" Cast Iron (E)	646.60
			12" Cast Iron (W)	646.45



LEGEND

- AC Air Conditioning
- Catch Basin - Round
- Catch Basin - Square
- CO Cleanout
- Control Point/ Benchmark
- Cable Riser
- Culvert
- Deciduous Tree
- EM Electric Meter
- Electric Manhole
- Electric Riser
- FCT Faucet
- Fire Department Connection
- Flag
- GM Gas Meter
- Gas Riser
- GV Gas Valve
- Guy Anchor
- Handhole
- Hydrant
- Iron-Found
- Iron-Set
- Light Pole
- MB Mailbox
- Miss Dig Flag - Cable
- Miss Dig Flag - Electric
- Miss Dig Flag - Gas
- Miss Dig Flag - Water
- Manhole
- P Post
- Utility Pole
- S Sign
- STOP Stop Sign
- S Sanitary Manhole
- D Storm Manhole
- TR Transformer
- M Manhole
- Utility Pole
- CABLE Underground Fiber Marker
- GAS Underground Gas Marker
- Water Manhole
- WV Water Valve
- YD Yard Drain
- Yard Light
- C Cable TV Line
- UE Electric Underground Line
- X Fence
- G Gas Line
- Guard Rail Line
- OH Overhead Utility
- SS Sanitary Line
- ST Storm Line
- W Watermain
- Asphalt
- Brick
- Existing Building
- Concrete
- Misc. Structure
- Bench

RECORD DESCRIPTIONS

PID:	Source
70-17-18-470-016	Sun Title Commitment No. 303898 Rev. 5 dated 12-10-24
70-17-18-470-002	Sun Title Commitment No. 303898 Rev. 5 dated 12-10-24
70-17-18-470-010	Sun Title Commitment No. 306918 dated 3-7-25
70-17-18-400-045	Sun Title Commitment No. 303899 dated 11-4-24
70-17-18-471-008	Sun Title Commitment No. 306919 dated 3-6-25
70-17-18-470-021	Sun Title Commitment No. 303852 dated 5-22-25
70-17-18-470-012	Warranty Deed, Liber 1416, page 465, Ottawa County Records
70-17-18-400-034	Quit Claim Deed #2009-0039834 recorded 10-2-09, Ottawa County Records
70-17-18-471-005	Warranty Deed, Liber 2859, page 787, Ottawa County Records
70-17-18-470-001	Quit Claim Deed, Liber 4518, page 548, Ottawa County Records
70-17-18-470-011	Warranty Deed, Liber 5452, page 800, Ottawa County Records
70-17-18-400-010	Warranty Deed #2016-0048857 recorded 12-21-16, Ottawa County Records
70-17-18-400-022	Warranty Deed #2018-0037235 recorded 10-16-18, Ottawa County Records
70-17-18-400-027	Warranty Deed #2018-0037235 recorded 10-16-18, Ottawa County Records
70-17-18-400-023	Warranty Deed #2019-0009372 recorded 3-29-19, Ottawa County Records
70-17-18-400-020	Warranty Deed #2021-0030119 recorded 6-8-21, Ottawa County Records
70-17-18-470-010	Warranty Deed #2025-0010216 recorded 4-25-25, Ottawa County Records
70-17-18-400-042	Lighthouse Title Commitment No. CCU20-10278780, dated 9-24-20
70-17-18-400-011	HEI survey project No. 79-02-050 dated 3-2-79 as recorded in Liber 4 Certified Survey Maps, Page 359, Ottawa County Records.
Curve data for N. Carlton St.	Moore and Bruggink Project No. 35-3-6, Page 6, dated 4-11-95

NOTE: Deed and/or fitlework was not available for some parcels both within the overall subject property and for some adjoining parcels. Tax Descriptions per Ottawa County GIS site were used in conjunction with the above referenced record descriptions when analyzing and configuring all of the parcels together.

SCHEDULE B - SECTION II NOTES

Sun Title Commitment No. 308852, dated 5-22-25

10 Easement in favor of Consumers Power Company and the Covenants, Conditions and Restrictions contained in instrument recorded in Liber 1290, page 248.
The location of said easement cannot be determined from the record document.

12 The terms, provisions and easement(s) contained in the document entitled Warranty Deed recorded as Liber 2293, page 166.
The location of said easement cannot be determined from the record document.

13 Affidavit of Right of Way in favor of the County of Ottawa and the Covenants, Conditions and Restrictions contained in instrument recorded in Instrument No. 2013-0006185.
Said easement is not on, does not touch, and/or - based on the description contained in the record document - does not affect the surveyed property.

14 Affidavit of Right of Way in favor of the County of Ottawa and the Covenants, Conditions and Restrictions contained in instrument recorded in Instrument No. 2013-0006189.
The easement described in this document is shown on this survey.

Sun Title Commitment No. 303898 Rev. No. 5, dated 12-10-24

16 Right(s) of Way and/or Easement(s) and rights incidental thereto as granted in a document: Granted to Consumers Power Company (now known as Consumers Energy), Recording No. Liber 216, Page 555 (As to Parcel 1)
The location of said easement cannot be determined from the record document.

17 Right(s) of Way and/or Easement(s) and rights incidental thereto, as granted in a document: Granted to: the City of Zeeland, a Michigan municipal corporation, Recording no. Liber 1412, Page 444 (AS to Parcel 1)
The easement described in this document is shown on this survey.

18 Right(s) of Way and/or Easement(s) and rights incidental thereto, as granted in a document: Granted to: the Zeeland board of Public Works, a Department of the City of Zeeland, a Michigan municipal corporation, Recording No. 1815, Page 983 (As to Parcel 2)
The easement described in this document is shown on this survey.

19 Water Main Easement, as recorded in Liber 1172, on Page 953. (As to Parcel 2)
The easement described in this document is shown on this survey, and is not on, does not touch, and/or - based on the description contained in the record document - does not affect the surveyed property.

20 Right of way in favor of Consumers Power Company (now known as Consumers Energy), as recorded in Liber 1290, on Page 248. (As to Parcel 2)
The location of said easement cannot be determined from the record document.

21 Right of way in favor of Consumers Power Company (now known as Consumers Energy), as recorded in Liber 1290, on Page 248. (As to Parcel 2)
The location of said easement cannot be determined from the record document.

Sun Title Commitment No. 306918 dated 3-7-25
No survey matters to depict

Sun Title Commitment No. 306919 dated 3-6-25

A9 Right of Way in favor of Consumers Power Company and the Covenants, Conditions and Restrictions contained in instrument recorded in Liber 254, page 309. Notice of Claim recorded in Liber 595, page 783.
The location of said easement cannot be determined from the record document.

A11 The terms, provisions and easement(s) contained in the document entitled Quitclaim Deed recorded September 12, 1988 as Liber 1290, page 248. Partial Release of Easement recorded in Liber 2545, page 478.
The location of said easement cannot be determined from the record document (L1290, P 248), and Surveyor has information indicating that said easement may have been released or otherwise terminated.(L2545, P478)

A14 Right-of-Way Grant in favor of Semco Energy and the Covenants, Conditions and Restrictions contained in instrument recorded in Instrument No. 2017-0002351.
The location of said easement cannot be determined from the record document.

Sun Title Commitment No. 303889 dated 11-4-24

15 Right(s) of Way and/or Easement(s) and rights incidental thereto, as granted in a document: Granted to: the Board of Public Works, a Department of the City of Zeeland, a Michigan municipal corporation, Recording No: Liber 4763, Page 438.
The easement described in this document is shown on this survey.

16 Easements and the terms, conditions and provisions thereof which are recited in the Affidavit of Right of Way recorded in Instrument No. 2013-0006189.
The easement described in this document is shown on this survey.

NEDERVELD
www.nederveld.com
800.222.1868
HOLLAND
730 Chicago Dr.
Holland, MI 49423
Phone: 616.393.0449
GRAND RAPIDS
217 Grandville Ave., Suite 302
Grand Rapids, MI 49503
Phone: 616.575.5190
ANN ARBOR
3057 Miller Rd.
Ann Arbor, MI 48103
Phone: 734.929.8863

PREPARED FOR:
Reckitt Zeeland
Aaron Holder

725 E Main Ave
Zeeland, MI 49464

CREATED:
Drawn: BS Date: 5-30-25

REVISIONS:
Rev: UTILITIES, WETLANDS
Drawn: BS Date: 7-22-25
Rev: STORM, BOUNDARY
Drawn: BS Date: 11-11-25
Rev: BOUNDARY & DESCRIPTION
Drawn: BS Date: 11-18-25
Rev: ADDITIONAL TOPO, EASEMENTS
Drawn: BS Date: 12-9-25

Mead Johnson-Zeeland
Topographic Survey
E. MAIN AVE
PART OF THE SOUTHEAST 1/4 OF SECTION 18, T5N, R14W,
CITY OF ZEELAND, OTTAWA COUNTY, MICHIGAN

STAMP:
Scott A Hendges License No. 4001047953 PROFESSIONAL ENGINEER STATE OF MICHIGAN

PROJECT NO:
25200662

SHEET NO:
T0.4

SHEET: 5 OF 5

PIERCE ENGINEERS
181 N. Broadway Ave
Milwaukee, WI 53202
414.278.6060
www.pierceengineers.com

VK CIVIL Vriesman & Korhorn
4664 Campus Dr. Ste 111
Kalamazoo, MI 49008
(269) 697-7120

PRELIMINARY
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DATE:

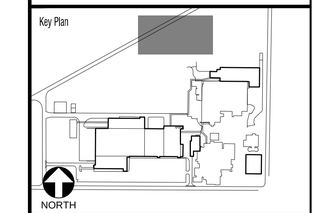
ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

ips
Integrated Project Services
Engineering
Design/Build
Compliance
Consulting
10601 MISSION ROAD
SUITE 240
LEAWOOD, KS 66206
913.345.9084 PHONE
www.ipsdb.com
IPS PROFESSIONAL ENGINEERS AND ARCHITECTS, PC.

Approved by

Drafter / Designer mm/dd/yy
Project Manager mm/dd/yy
Quality Representative mm/dd/yy
Operation Manager mm/dd/yy
Maintenance Representative mm/dd/yy
Customer Representative / Document Manager mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

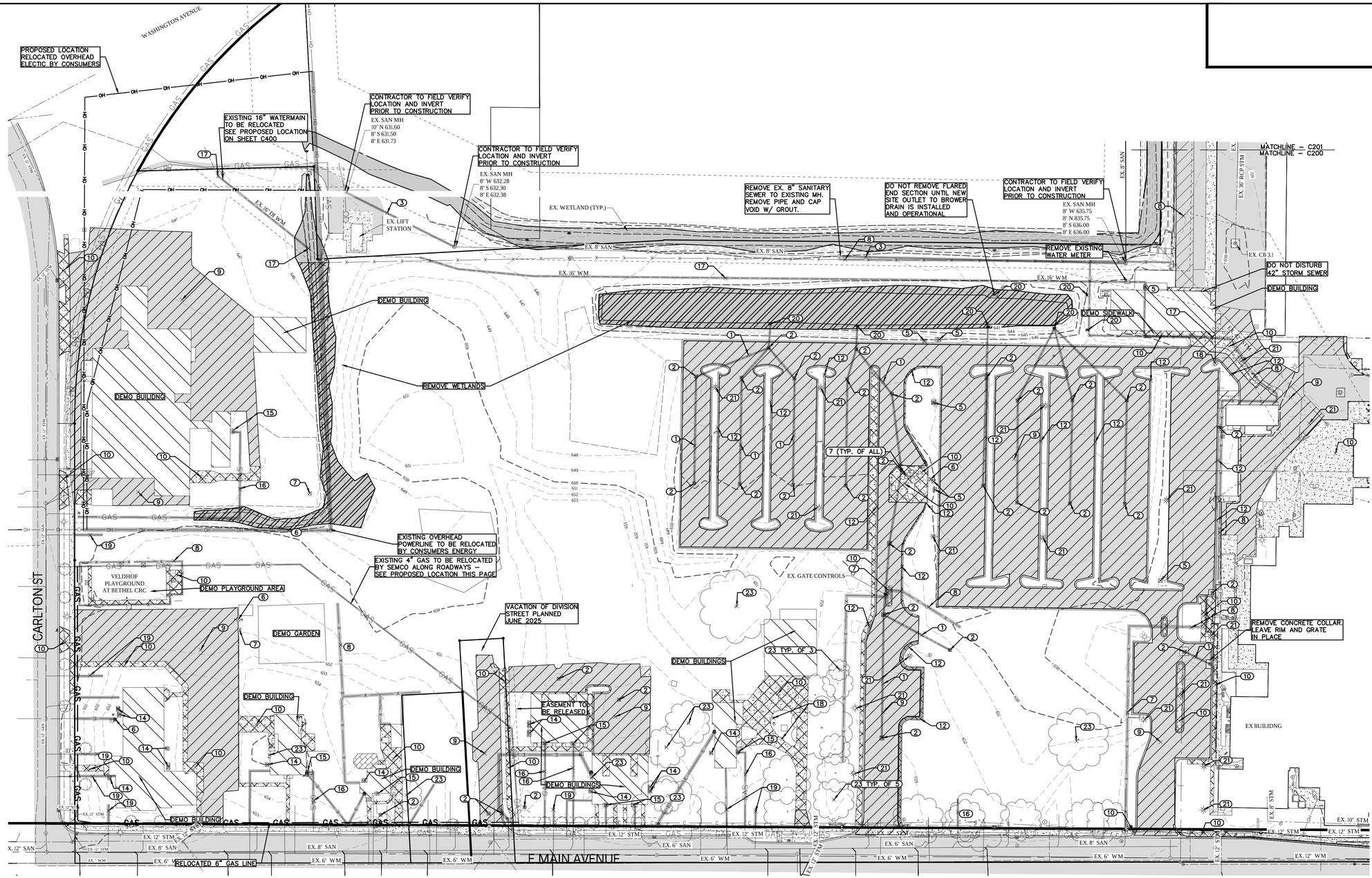
MeadJohnson NUTRITION

title: EXISTING CONDITIONS
project: VIVID
location: ZEELAND, MI

C.A.R. OR P.O NUMBER:	
SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL025120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	25SSIT-1479-C105-EXISTING CONDITIONS
HARD COPY:	
DEPARTMENT:	
SHEET:	7 OF 36

SHEET #:
DRAWING NUMBER
C105

Received: 04/06/26
City of Zeeland, MI



DEMOLITION KEY NOTES

1. REMOVE STORM SEWER
2. REMOVE CB
3. REMOVE SANITARY SEWER
4. REMOVE MANHOLE
5. REMOVE ELECTRIC HANDHOLE
6. REMOVE ELECTRIC.
7. REMOVE GATE ARM, CONTROLS, AND BOLLARDS.
8. REMOVE FENCE
9. REMOVE HMA PAVEMENT FULL DEPTH.
10. REMOVE CONCRETE PAVEMENT FULL DEPTH.
11. REMOVE GRAVEL FULL DEPTH.
12. REMOVE CONC. CURB AND GUTTER.
13. REMOVE SIGN.
14. REMOVE AC UNIT.
15. REMOVE GAS METER.
16. REMOVE GAS SERVICE.
17. REMOVE WATERMAIN.
18. REMOVE HYDRANT AND VALVES.
19. CAP ALL HOUSE UTILITY SERVICE LEADS AT ROW LINE.
20. REMOVE RIP RAP AND FLARED END SECTION.
21. REMOVE LIGHT POLE AND CONDUIT.
22. REMOVE CLEANOUT
23. REMOVE TREES

DEMOLITION LEGEND

- HOT MIX ASPHALT REMOVAL
- CONCRETE & CURB REMOVAL
- BUILDING REMOVAL
- GRAVEL REMOVAL
- UTILITY REMOVAL
- FENCE & WALL REMOVAL
- (00) REMOVE OBJECT

SYMBOL LEGEND

- EXISTING TREE
- TREE STUMP
- SIGN
- MAILBOX
- BOLLARD
- LIGHT POLE
- POWER POLE
- GUYWIRE
- COM/ELEC STRUCTURE
- GAS METER
- VALVE
- HYDRANT
- WELL
- CLEANOUT
- SANITARY SEWER MANHOLE
- STORM CATCH BASIN
- STORM MANHOLE
- STORM FLARED END SECTION
- RIP RAP
- FLOW DIRECTION ARROW
- SECTION CORNER
- PROPERTY CORNER – SET
- PROPERTY CORNER – FOUND
- BENCHMARK/CONTROL POINT
- SOIL BORING

LINE LEGEND

- OH — EXISTING OVERHEAD ELECTRIC
- E — EXISTING ELECTRIC
- GAS — EXISTING GAS
- C — EXISTING COMMUNICATIONS
- X — EXISTING FENCE
- RIGHT OF WAY
- EASEMENT
- EXISTING GRAVEL
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- FM — EXISTING FORCEMAIN
- EXISTING WATERMAIN

HATCH LEGEND

- EXISTING HOT MIXED ASPHALT
- EXISTING GRAVEL
- EXISTING CONCRETE
- WETLANDS

PIERCE ENGINEERS
181 N. Broadway Ave
Milwaukee, WI 53202
414.278.6060
www.pierceengineers.com

VK CIVIL Vriesman & Korhorn
4664 Campus Dr. Ste 111
Kalamazoo, MI 49008
(269) 697-7120

SCALE: 1" = 60'
0' 30' 60' 90' 120'

PRELIMINARY
NOT FOR CONSTRUCTION

Integrated Project Services
Engineering
Design/Build
Compliance
Consulting

10601 MISSION ROAD
SUITE 240
LEAWOOD, KS 66206
913.345.9084 PHONE

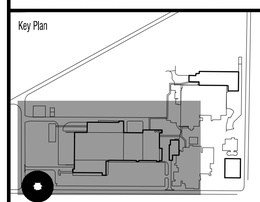
www.ipsdb.com

IPS PROFESSIONAL ENGINEERS AND ARCHITECTS, PC.

Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DEMOLITION

project: VIVID

location: ZEELAND, MI

C.A.R. OR P.O.NUMBER	
SCALE:	AS NOTED
DATE:	02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL025100
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	
HARD COPY:	
DEPARTMENT:	

SEAL

THIS IS NOT A SEALED DOCUMENT

DATE:

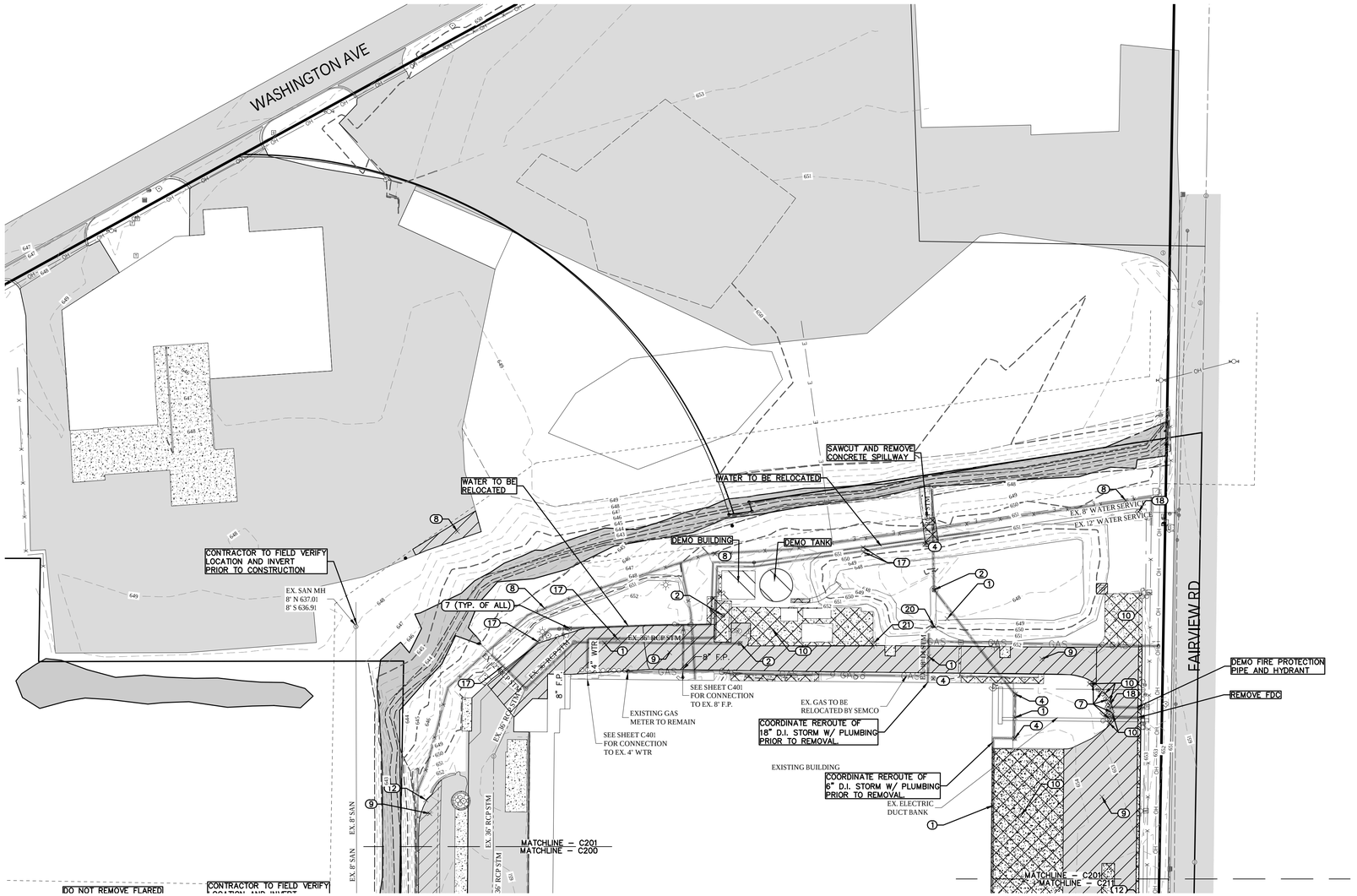
ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

SHEET #: ZSCSIT-1473-C200-DEMOLITION

DRAWING NUMBER: C200

SHEET: 8 OF 36

Received: 04/06/26
City of Zeeland, MI



DEMOLITION KEY NOTES

1. REMOVE STORM SEWER
2. REMOVE CB
3. REMOVE SANITARY SEWER
4. REMOVE MANHOLE
5. REMOVE ELECTRIC HANDHOLE
6. REMOVE ELECTRIC.
7. REMOVE GATE ARM, CONTROLS, AND BOLLARDS.
8. REMOVE FENCE
9. REMOVE HMA PAVEMENT FULL DEPTH.
10. REMOVE CONCRETE PAVEMENT FULL DEPTH.
11. REMOVE GRAVEL FULL DEPTH.
12. REMOVE CONC. CURB AND GUTTER.
13. REMOVE SIGN.
14. REMOVE AC UNIT.
15. REMOVE GAS METER.
16. REMOVE GAS SERVICE.
17. REMOVE WATERMAIN.
18. REMOVE HYDRANT AND VALVES.
19. CAP ALL HOUSE UTILITY SERVICE LEADS AT ROW LINE.
20. REMOVE RIP RAP AND FLARED END SECTION.
21. REMOVE LIGHT POLE AND CONDUIT.
22. REMOVE CLEANOUT
23. REMOVE TREES

DEMOLITION LEGEND

- HOT MIX ASPHALT REMOVAL
- CONCRETE & CURB REMOVAL
- BUILDING REMOVAL
- GRAVEL REMOVAL
- UTILITY REMOVAL
- FENCE & WALL REMOVAL
- REMOVE OBJECT

SYMBOL LEGEND

- EXISTING TREE
- TREE STUMP
- SIGN
- MAILBOX
- BOLLARD
- LIGHT POLE
- POWER POLE
- GUYWIRE
- COM/ELEC STRUCTURE
- GAS METER
- VALVE
- HYDRANT
- WELL
- CLEANOUT
- SANITARY SEWER MANHOLE
- STORM CATCH BASIN
- STORM MANHOLE
- STORM FLARED END SECTION
- RIP RAP
- FLOW DIRECTION ARROW
- SECTION CORNER
- PROPERTY CORNER – SET
- PROPERTY CORNER – FOUND
- BENCHMARK/CONTROL POINT
- SOIL BORING

LINE LEGEND

- OH — EXISTING OVERHEAD ELECTRIC
- E — EXISTING ELECTRIC
- GAS — EXISTING GAS
- C — EXISTING COMMUNICATIONS
- X — EXISTING FENCE
- RIGHT OF WAY
- EASEMENT
- EXISTING GRAVEL
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- FM — EXISTING FORCEMAIN
- EXISTING WATERMAIN

HATCH LEGEND

- EXISTING HOT MIXED ASPHALT
- EXISTING GRAVEL
- EXISTING CONCRETE
- WETLANDS

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(269) 697-7120

SCALE: 1" = 60'
0' 30' 60' 90' 120'

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DGL	SRF	MCC	A

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LEAWOOD, KS 66206
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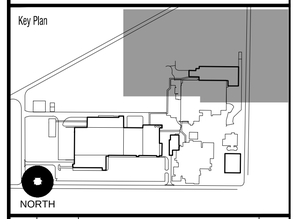
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Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DEMOLITION

project: VIVID

location: ZEELAND, MI

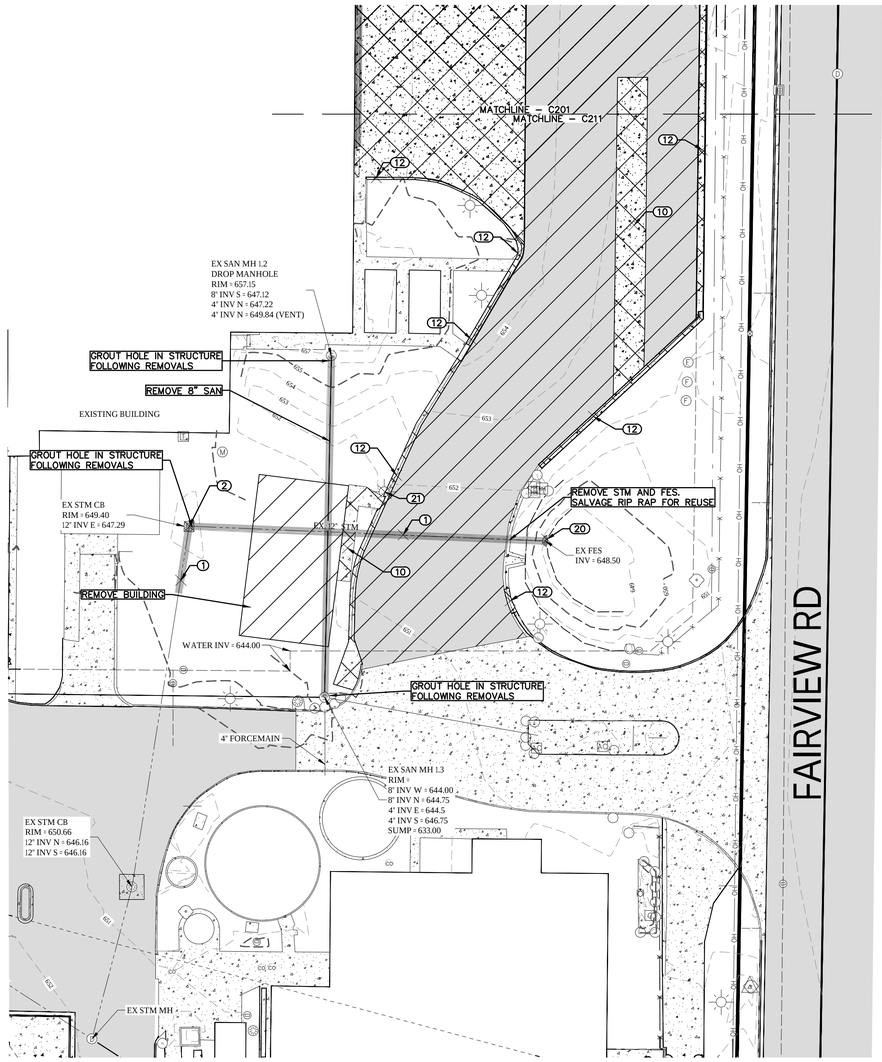
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SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			ADS
DESIGNER:			DGL
DRAFTER:			MDS
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GL025120
DISCIPLINE:			CIVIL
SYSTEM NAME:			-
SYSTEM NUMBER:			-
EQUIPMENT TYPE:			-
LEGACY NUMBER:			
LEGACY DATE:			
LEGACY VENDOR:			
CAD FILE NAME:			
HARD COPY:			
DEPARTMENT:			

SHEET #: 25C073-1473-C201-DEMOLITION

DRAWING NUMBER: C201

SHEET: 9 OF 36

Received: 04/06/26
City of Zeeland, MI



DEMOLITION KEY NOTES

1. REMOVE STORM SEWER
2. REMOVE CB
3. REMOVE SANITARY SEWER
4. REMOVE MANHOLE
5. REMOVE ELECTRIC HANDHOLE
6. REMOVE ELECTRIC.
7. REMOVE GATE ARM, CONTROLS, AND BOLLARDS.
8. REMOVE FENCE
9. REMOVE HMA PAVEMENT FULL DEPTH.
10. REMOVE CONCRETE PAVEMENT FULL DEPTH.
11. REMOVE GRAVEL FULL DEPTH.
12. REMOVE CONC. CURB AND GUTTER.
13. REMOVE SIGN.
14. REMOVE AC UNIT.
15. REMOVE GAS METER.
16. REMOVE GAS SERVICE.
17. REMOVE WATERMAIN.
18. REMOVE HYDRANT AND VALVES.
19. CAP ALL HOUSE UTILITY SERVICE LEADS AT ROW LINE.
20. REMOVE RIP RAP AND FLARED END SECTION.
21. REMOVE LIGHT POLE AND CONDUIT.
22. REMOVE CLEANOUT
23. REMOVE TREES

DEMOLITION LEGEND

- HOT MIX ASPHALT REMOVAL
- CONCRETE & CURB REMOVAL
- BUILDING REMOVAL
- GRAVEL REMOVAL
- UTILITY REMOVAL
- FENCE & WALL REMOVAL
- REMOVE OBJECT

SYMBOL LEGEND

- EXISTING TREE
- TREE STUMP
- SIGN
- MAILBOX
- BOLLARD
- LIGHT POLE
- POWER POLE
- GUYWIRE
- COM/ELEC STRUCTURE
- GAS METER
- VALVE
- HYDRANT
- WELL
- CLEANOUT
- SANITARY SEWER MANHOLE
- STORM CATCH BASIN
- STORM MANHOLE
- STORM FLARED END SECTION
- RIP RAP
- FLOW DIRECTION ARROW
- SECTION CORNER
- PROPERTY CORNER – SET
- PROPERTY CORNER – FOUND
- BENCHMARK/CONTROL POINT
- SOIL BORING

LINE LEGEND

- OH — EXISTING OVERHEAD ELECTRIC
- E — EXISTING ELECTRIC
- GAS — EXISTING GAS
- C — EXISTING COMMUNICATIONS
- X — EXISTING FENCE
- RIGHT OF WAY
- EASEMENT
- EXISTING GRAVEL
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- FM — EXISTING FORCEMAIN
- EXISTING WATERMAIN

HATCH LEGEND

- EXISTING HOT MIXED ASPHALT
- EXISTING GRAVEL
- EXISTING CONCRETE
- WETLANDS

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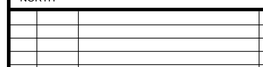
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Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DEMOLITION

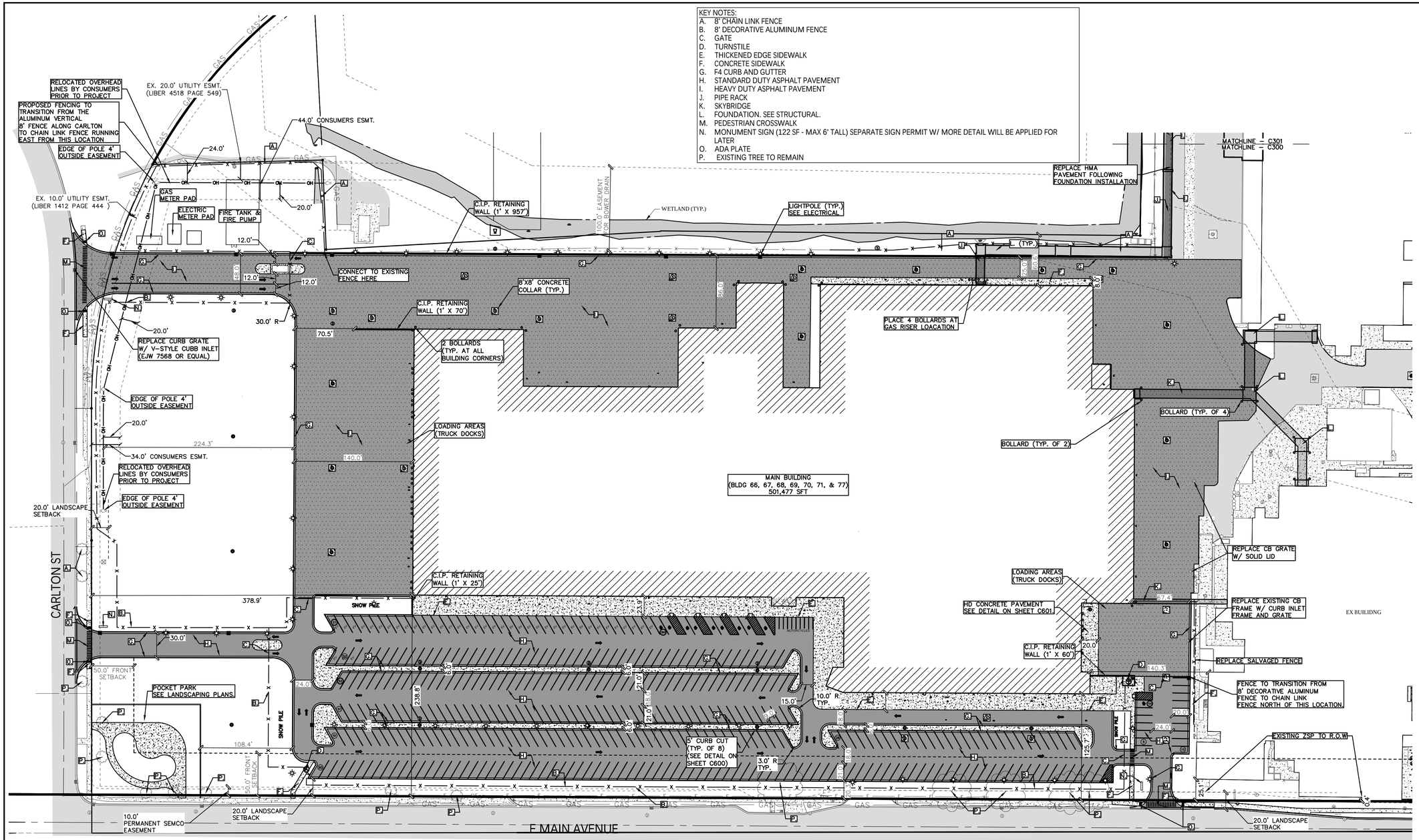
project: VIVID

location: ZEELAND, MI

C.A.R. OR P.O NUMBER:	
SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL205120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	
HARD COPY:	
DEPARTMENT:	

SHEET #: ZSCSIT-1473-C211-DEMOLITION
DRAWING NUMBER: C211
SHEET: 10 OF 36

Received: 04/06/26
City of Zeeland, MI



SYMBOL LEGEND

- EXISTING TREE
- TREE STUMP
- SIGN
- MAILBOX
- BOLLARD
- LIGHT POLE
- POWER POLE
- GUYWIRE
- COM/ELEC STRUCTURE
- GAS METER
- VALVE
- HYDRANT
- WELL
- CLEANOUT
- SANITARY SEWER MANHOLE
- STORM CATCH BASIN
- STORM MANHOLE
- STORM FLARED END SECTION
- RIP RAP
- FLOW DIRECTION ARROW
- SECTION CORNER
- PROPERTY CORNER - SET
- PROPERTY CORNER - FOUND
- BENCHMARK/CONTROL POINT
- SOIL BORING
- ELECTRIC VEHICLE READY SPACES (NOT STRIPED)
- BOLLARD

LINE LEGEND

- EXISTING OVERHEAD ELECTRIC
- PROPOSED OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- PROPOSED UNDERGROUND ELECTRIC
- EXISTING GAS
- PROPOSED GAS
- EXISTING COMMUNICATIONS
- PROPOSED COMMUNICATIONS
- EXISTING FENCE
- PROPOSED FENCE
- RIGHT OF WAY
- EASEMENT
- SETBACK
- EXISTING GRAVEL
- PROPOSED GRAVEL
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING FORCEMAIN
- PROPOSED FORCEMAIN
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- ROAD CENTERLINE

HATCH LEGEND

- EXISTING ASPHALT PAVEMENT
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- EXISTING GRAVEL
- PROPOSED GRAVEL
- EXISTING CONCRETE
- PROPOSED CONCRETE
- WETLAND

PARKING COUNTS REQUIRED BY CITY ZEELAND:

OFFICE (1 PER 300 SQ. FT. OF USABLE FLOOR AREA)
MANUFACTURING, PROCESSING, AND RESEARCH (1 SPACE PER 1,000 SQ. FT. OF GROSS FLOOR AREA)
WAREHOUSE (1 SPACE PER 2,000 SQ. FT. OF GROSS AREA)

EXISTING ZIPP & ZSP:
OFFICE: (19175 SQ. FT.)(1/300)=64 SPACES
MANUFACTURING: (123,915 SQ. FT)(1/1000)=124 SPACES
WAREHOUSING: (27,550+24,175 SQ. FT.)=124 SPACES

(BLDG 66, 67, 68, 69, 70, 71, & 77)
OFFICE: (60,536 SQ. FT.)(1/300)=202 SPACES
MANUFACTURING: 426,105 SQ. FT. (1/1000)=427 SPACES
WAREHOUSE: (14,836 SQ. FT.)(1/2000)=8

ZIPP ADDITION (BLDG 73)
MANUFACTURING: (117,927 SQ. FT.)(1/1000)=118 SPACES

PARKING CALCULATION:
REQUIRED PARKING = 755 SPACES (BLDG 66, 67, 68, 69, 70, 71, & 77)
PROVIDED PARKING:
REGULAR SPACES =337
ADA SPACES = 8
EV SPACES = 40 (10% OF TOTAL)
TOTAL SPACES = 385

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0' 30' 60' 90' 120'

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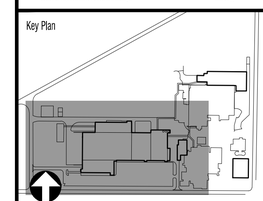
ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

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Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

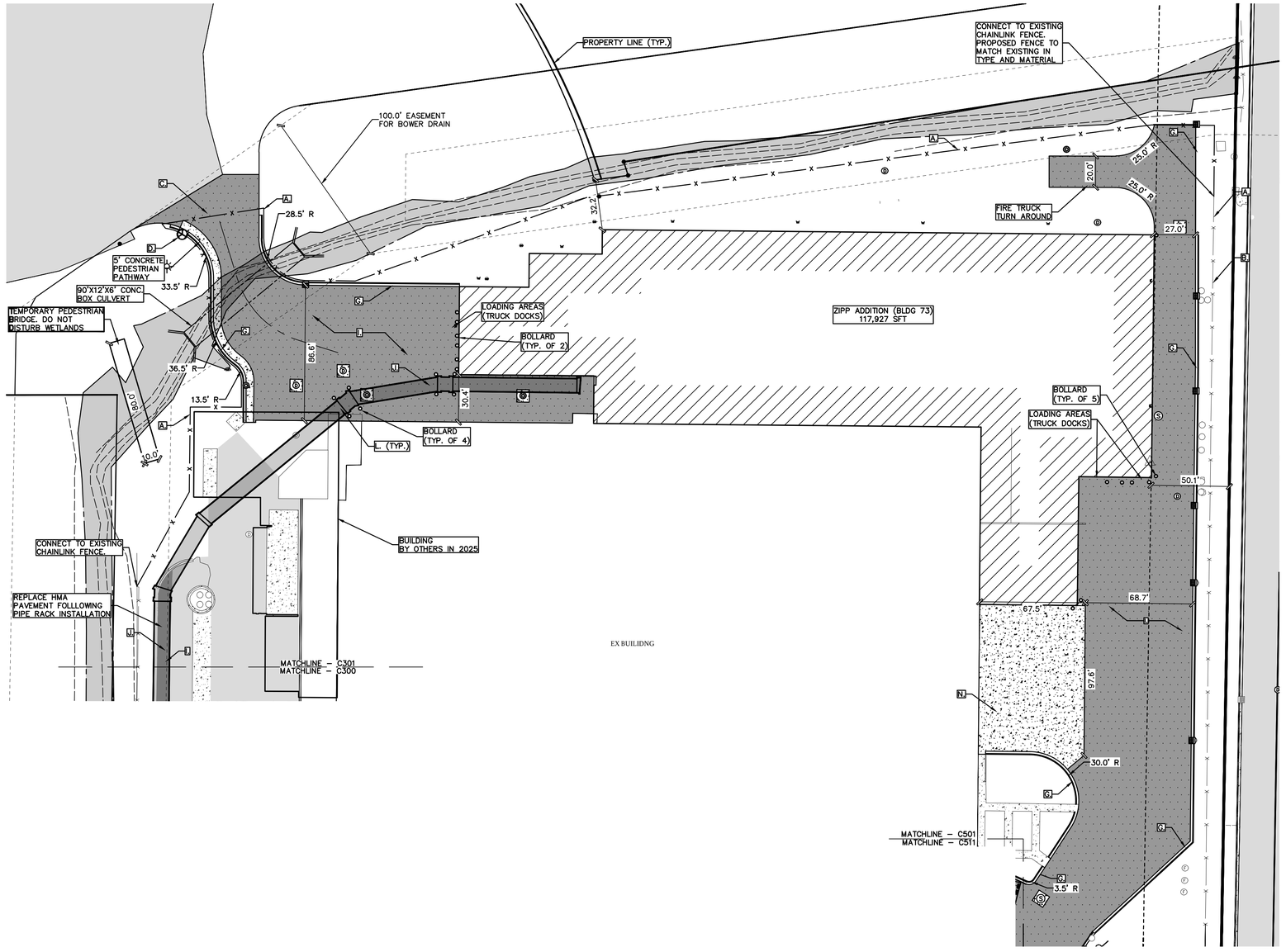
title: SITE LAYOUT

project: VIVID

location: ZEELAND, MI

C.A.R. OR P.O. NUMBER:	
SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL205120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	SHEET #: ZSCSIT-1473-C300-SITE LAYOUT
HARD COPY:	DRAWING NUMBER C300
DEPARTMENT:	SHEET: 11 OF 36

Received: 04/06/26
City of Zeeland, MI



SYMBOL LEGEND

- EXISTING TREE
- TREE STUMP
- SIGN
- MAILBOX
- BOLLARD
- LIGHT POLE
- POWER POLE
- GUYWIRE
- COM/ELEC STRUCTURE
- GAS METER
- VALVE
- HYDRANT
- WELL
- CLEANOUT
- SANITARY SEWER MANHOLE
- STORM CATCH BASIN
- STORM MANHOLE
- STORM FLARED END SECTION
- RIP RAP
- FLOW DIRECTION ARROW
- SECTION CORNER
- PROPERTY CORNER – SET
- PROPERTY CORNER – FOUND
- BENCHMARK/CONTROL POINT
- SOIL BORING
- BOLLARD

LINE LEGEND

- EXISTING OVERHEAD ELECTRIC
- PROPOSED OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- PROPOSED UNDERGROUND ELECTRIC
- EXISTING GAS
- PROPOSED GAS
- EXISTING COMMUNICATIONS
- PROPOSED COMMUNICATIONS
- EXISTING FENCE
- PROPOSED FENCE
- RIGHT OF WAY
- EASEMENT
- SETBACK
- EXISTING GRAVEL
- PROPOSED GRAVEL
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING FORCEMAIN
- PROPOSED FORCEMAIN
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- ROAD CENTERLINE

HATCH LEGEND

- EXISTING ASPHALT PAVEMENT
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- EXISTING GRAVEL
- PROPOSED GRAVEL
- EXISTING CONCRETE
- PROPOSED CONCRETE
- WETLAND

KEY NOTES:
A. 8' CHAIN LINK FENCE
B. 8' DECORATIVE ALUMINUM FENCE
C. GATE
D. TURNSTILE
E. THICKENED EDGE SIDEWALK
F. CONCRETE SIDEWALK
G. 24" CONCRETE CURB AND GUTTER
H. STANDARD DUTY ASPHALT PAVEMENT
I. HEAVY DUTY ASPHALT PAVEMENT
J. PIPE RACK
K. SKYBRIDGE
L. FOUNDATION. SEE STRUCTURAL.
M. PEDESTRIAN CROSSWALK
N. HEAVY DUTY CONCRETE PAVEMENT

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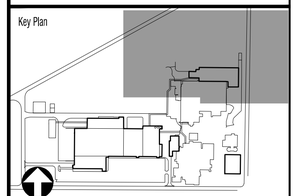
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Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: SITE LAYOUT

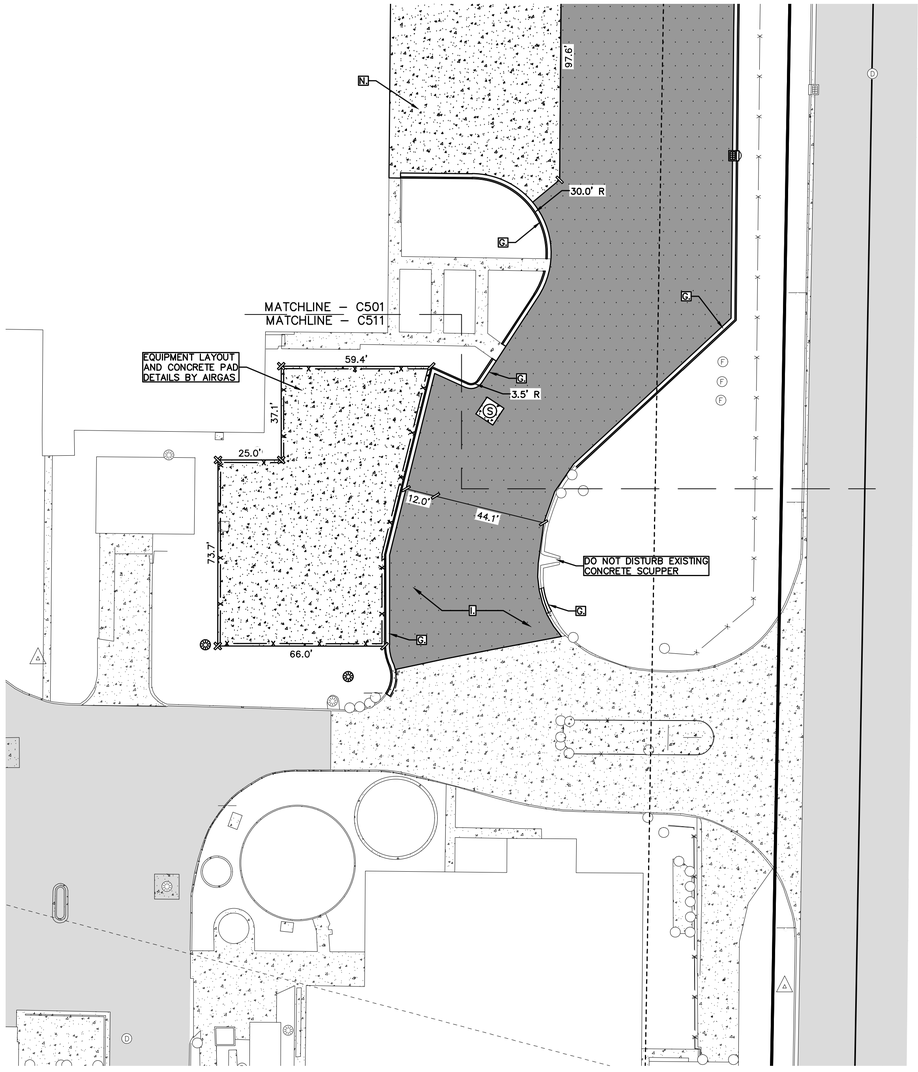
project: VIVID

location: ZEELAND, MI

C.A.R. OR P.O NUMBER:	
SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL025120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	
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DEPARTMENT:	

SHEET #: ZSC073-1473-C301-SITE LAYOUT
DRAWING NUMBER: C301
SHEET: 12 OF 36

Received: 04/06/26
City of Zeeland, MI



KEY NOTES:
A. EXISTING TREE TO REMAIN
B. PERIMETER FENCE
C. GATE
D. TURNSTILE
E. THICKENED EDGE SIDEWALK
F. CONCRETE SIDEWALK
G. 24" CONCRETE CURB AND GUTTER
H. STANDARD DUTY ASPHALT PAVEMENT
I. HEAVY DUTY ASPHALT PAVEMENT
J. PIPE RACK
K. SKYBRIDGE
L. FOUNDATION. SEE STRUCTURAL.
M. PEDESTRIAN CROSSWALK
N. HEAVY DUTY CONCRETE PAVEMENT

SYMBOL LEGEND

- EXISTING TREE
- TREE STUMP
- SIGN
- MAILBOX
- BOLLARD
- LIGHT POLE
- POWER POLE
- GUYWIRE
- T E COM/ELEC STRUCTURE
- GAS METER
- VALVE
- HYDRANT
- WELL
- CLEANOUT
- SANITARY SEWER MANHOLE
- STORM CATCH BASIN
- STORM MANHOLE
- STORM FLARED END SECTION
- RIP RAP
- FLOW DIRECTION ARROW
- SECTION CORNER
- PROPERTY CORNER – SET
- PROPERTY CORNER – FOUND
- BENCHMARK/CONTROL POINT
- SOIL BORING
- BOLLARD

LINE LEGEND

- EXISTING OVERHEAD ELECTRIC
- PROPOSED OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- PROPOSED UNDERGROUND ELECTRIC
- EXISTING GAS
- PROPOSED GAS
- EXISTING COMMUNICATIONS
- PROPOSED COMMUNICATIONS
- EXISTING FENCE
- PROPOSED FENCE
- RIGHT OF WAY
- EASEMENT
- SETBACK
- EXISTING GRAVEL
- PROPOSED GRAVEL
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING FORCEMAIN
- PROPOSED FORCEMAIN
- EXISTING WATERMAIN
- PROPOSED WATERMAIN

HATCH LEGEND

- EXISTING HOT MIXED ASPHALT
- PROPOSED HOT MIXED ASPHALT
- EXISTING GRAVEL
- PROPOSED GRAVEL
- EXISTING CONCRETE
- PROPOSED CONCRETE

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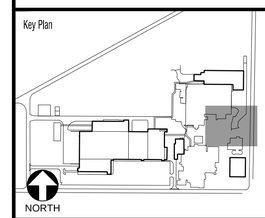
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Approved by

Drafter / Designer	mm/dd/yy
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Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

MeadJohnson NUTRITION

title: SITE LAYOUT

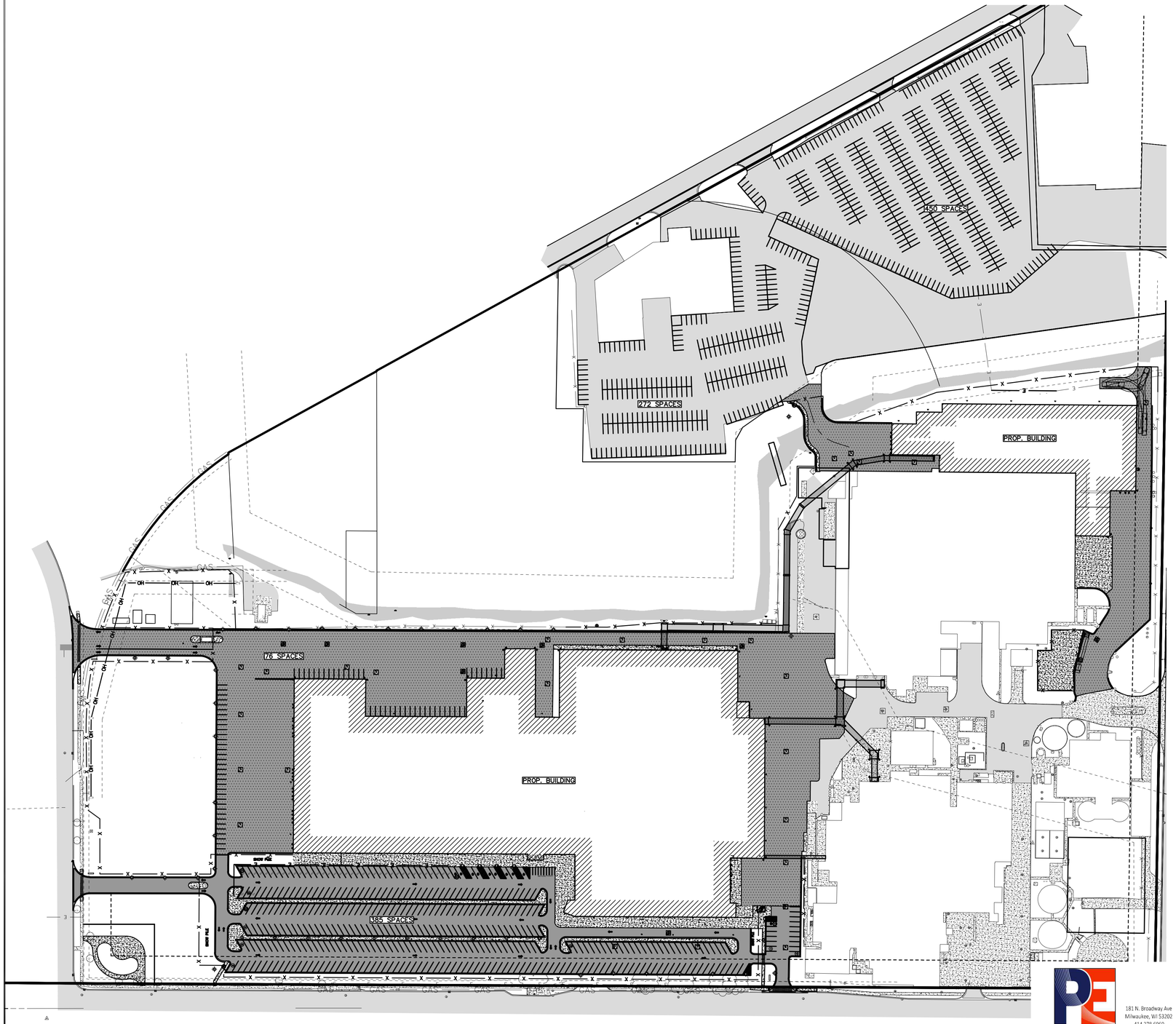
project: VIVID

location: ZEELAND, MI

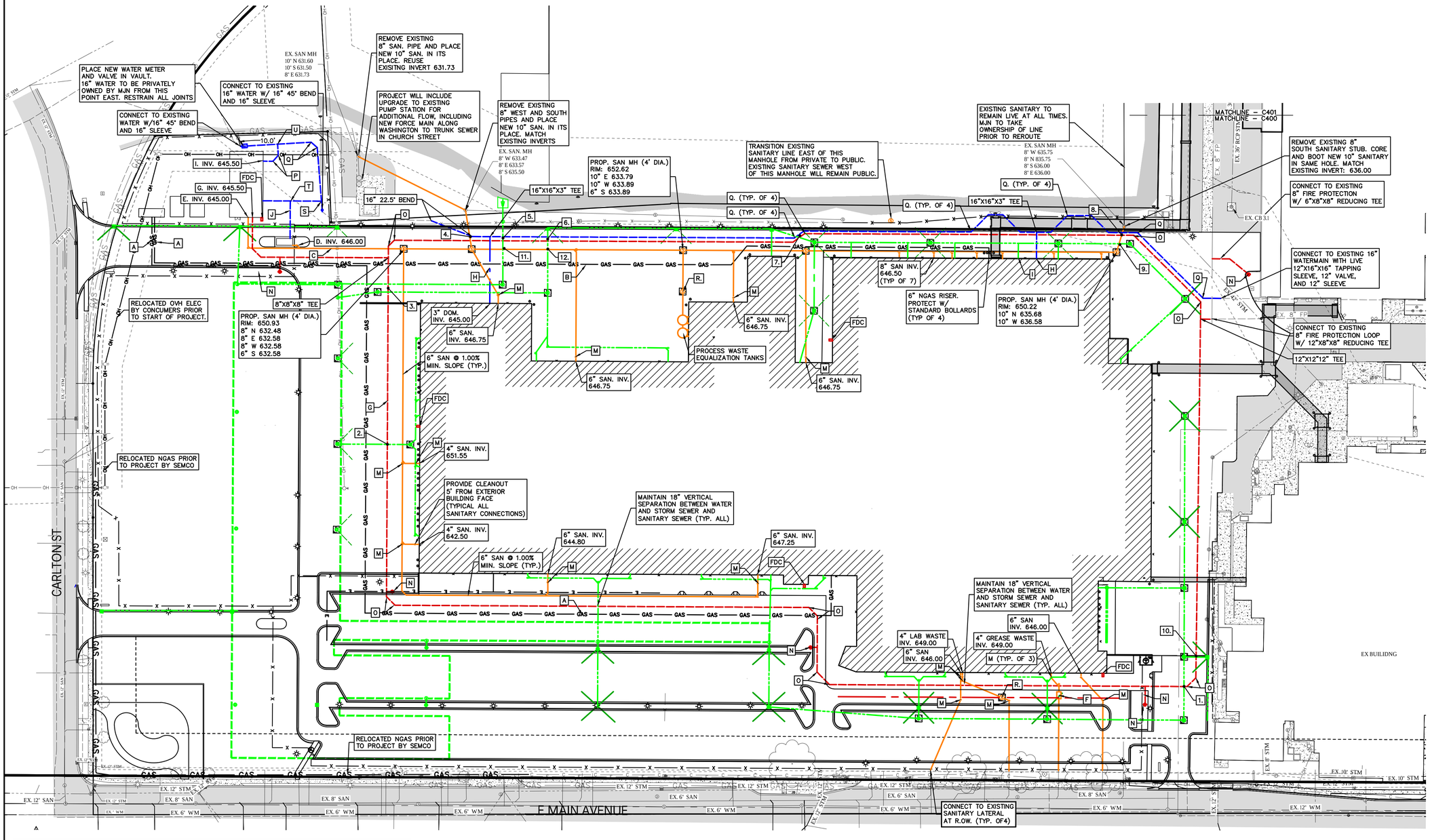
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SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL005120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	
HARD COPY:	
DEPARTMENT:	

SHEET #: ZSCSIT-1473-C311-SITE LAYOUT
DRAWING NUMBER: C311
SHEET: 13 OF 36

Received: 04/06/26
City of Zeeland, MI


450 SPACES
272 SPACES
PROP. BUILDING
476 SPACES
PROP. BUILDING
335 SPACES
OHP
OHP
OHP

Received: 04/06/26
City of Zeeland, MI



UTILITY CROSSING CHART
(APPROXIMATE PIPE INVERT AT UTILITY CROSSING)

#	WATERMAIN	STORM SEWER	SANITARY SEWER
1.	642.80	645.38	N/A
2.	641.00	643.57	N/A
3.	639.47	642.40 (36") ; 642.07 (42")	N/A
4.	646.16	N/A	632.43
5.	646.25	641.50	N/A
6.	645.92	642.79	N/A
7.	647.17	643.17	N/A
8.	643.57	N/A	635.70
9.	N/A	644.50	635.65
10.	645.65	647.75	N/A
11.	N/A	641.55	632.68
12	N/A	642.75	632.93

KEY NOTES:
A. 3" NATURAL GAS
B. 6" NATURAL GAS
C. 6" SANITARY
D. 4" SANITARY
E. 8" SANITARY.
F. 1000 GAL GREASE INTERCEPTOR. SEE DETAIL ON SHEET 601
G. 12" FIRE WATER
H. 3" DOMESTIC WATER
I. 12" DOMESTIC WATER
J. 1.5" DOMESTIC WATER
K. NEW GAS METER
L. INSPECTION PORT (SEE PLUMBING PLANS)
M. CLEANOUT
N. PLACE FIRE HYDRANT ASSEMBLY W/ 6" LEAD
O. 12" 45° BEND (F.P)
P. 12" 45° BEND (DOMESTIC)
Q. 16" 45° BEND
R. SANITARY INSPECTION MANHOLE SEE DETAIL ON SHEET C601
S. 16" X 1.5" X 1.5" TEE
T. 1.5" X 1.5" X 1.5" TEE
U. 16" X 12" X 12" TEE

LINE LEGEND
- OH — PROPOSED OVERHEAD ELECTRIC
- E — PROPOSED ELECTRIC
- GAS — GAS — PROPOSED GAS
- C — PROPOSED COMMUNICATIONS
- PROPOSED STORM SEWER
- PROPOSED 6" UNDERDRAIN W/ SOCK
- PROPOSED SANITARY SEWER
- FM — PROPOSED FORCEMAIN
- PROPOSED WATERMAIN

GENERAL NOTES:
A. REFER TO SHEET C601 FOR COMPREHENSIVE UTILITY PLAN NOTES
B. ALL SANITARY SEWER TO BE SDR-26.
C. ALL WATERMAIN TO BE C900.

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SCALE: 1" = 60'
0' 30' 60' 90' 120'

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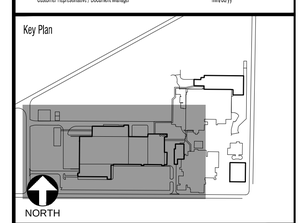
ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

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Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

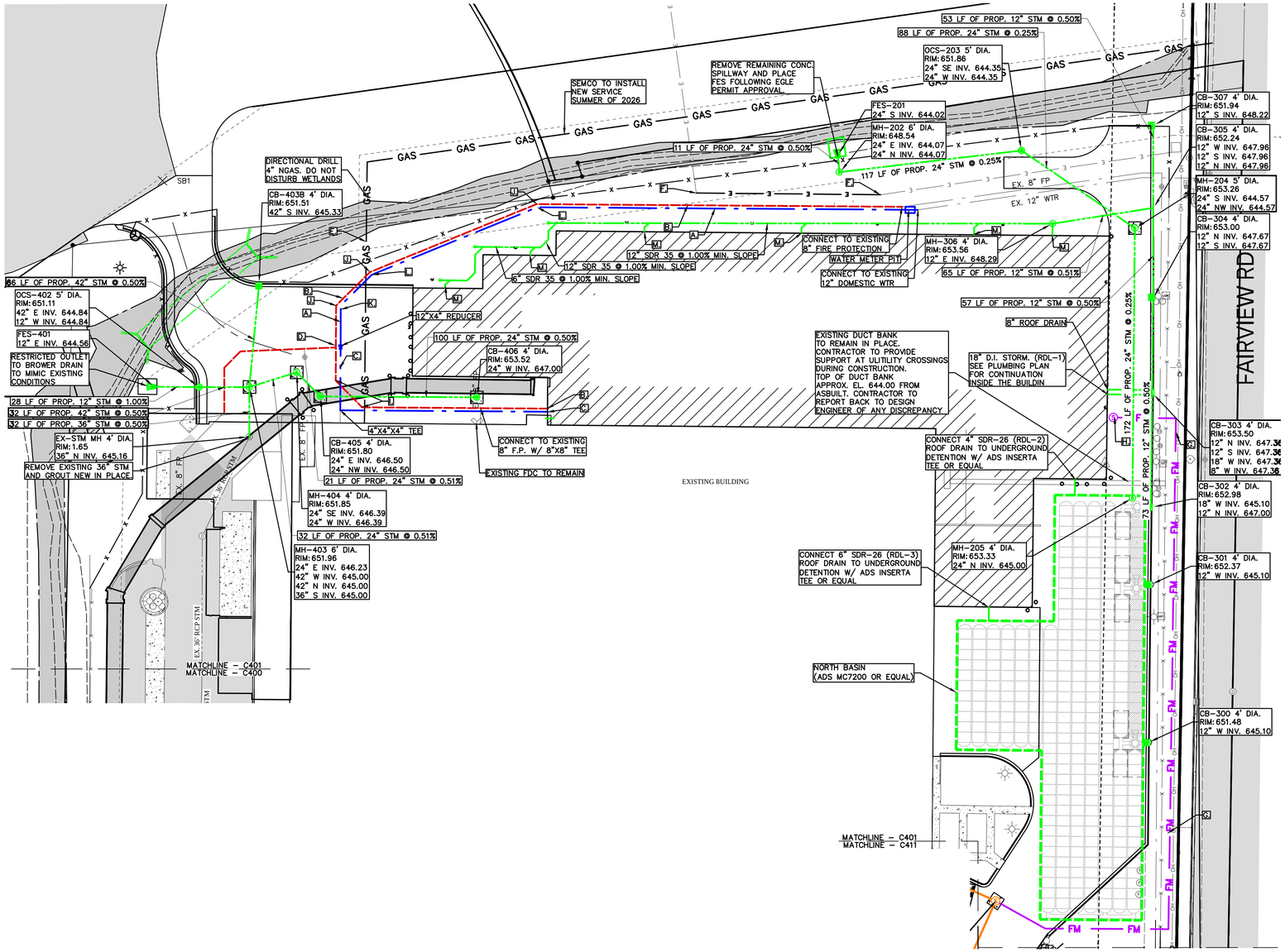
Mead Johnson NUTRITION

title: UTILITY PLAN
project: VIVID
location: ZEELAND, MI

C.A.R. OR P.O. NUMBER:			
SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			ADS
DESIGNER:			DGL
DRAFTER:			MDS
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GL025120
DISCIPLINE:			CIVIL
SYSTEM NAME:			-
SYSTEM NUMBER:			-
EQUIPMENT TYPE:			-
LEGACY NUMBER:			
LEGACY DATE:			
LEGACY VENDOR:			
CAD FILE NAME:			
HARD COPY*:			
DEPARTMENT:			

SHEET #: 25CSIT-1473-C400-UTILITY PLAN
DRAWING NUMBER: C400
SHEET: 15 OF 36

Received: 04/06/26
City of Zeeland, MI



LINE LEGEND

- OH — PROPOSED OVERHEAD ELECTRIC
- E — PROPOSED ELECTRIC
- GAS — GAS — PROPOSED GAS
- C — PROPOSED COMMUNICATIONS
- PROPOSED STORM SEWER
- PROPOSED 6" UNDERDRAIN W/ SOCK
- PROPOSED SANITARY SEWER
- FM — PROPOSED FORCEMAIN
- PROPOSED WATERMAIN

KEY NOTES:

A. 12" DOMESTIC WATER
B. 8" FIRE PROTECTION
C. 4" DOMESTIC WATER
D. CONNECT TO EXISTING W/ 8" X 8" X 8" TEE.
E. 4" NATURAL GAS
F. UNDERGROUND ELEC. REROUTE
G. 2" SANITARY FORCEMAIN
H. LIFT STATION. SEE PLUMBING FOR DETAILS.
I. 8" 45° BEND
J. 8" 22.5° BEND
K. 12" 45° BEND
L. 12" 22.5°BEND
M. 6" ROOF DRAIN

GENERAL NOTES:

A. REFER TO SHEET C601 FOR COMPREHENSIVE UTILITY PLAN NOTES
B. ALL SANITARY SEWER TO BE SDR-26.
C. ALL WATERMAIN TO BE C900.
D. ALL STORM SEWER ON THIS PAGE SHALL HAVE WATER TIGHT JOINTS.

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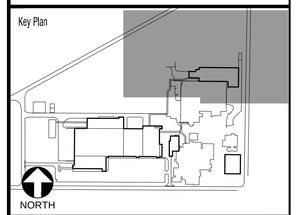
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Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

MeadJohnson NUTRITION

title: UTILITY PLAN

project: VIVID

location: ZEELAND, MI

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SCALE: 1" = 40'

0' 20' 40' 60' 80'

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DGL	SRF	MCC	A

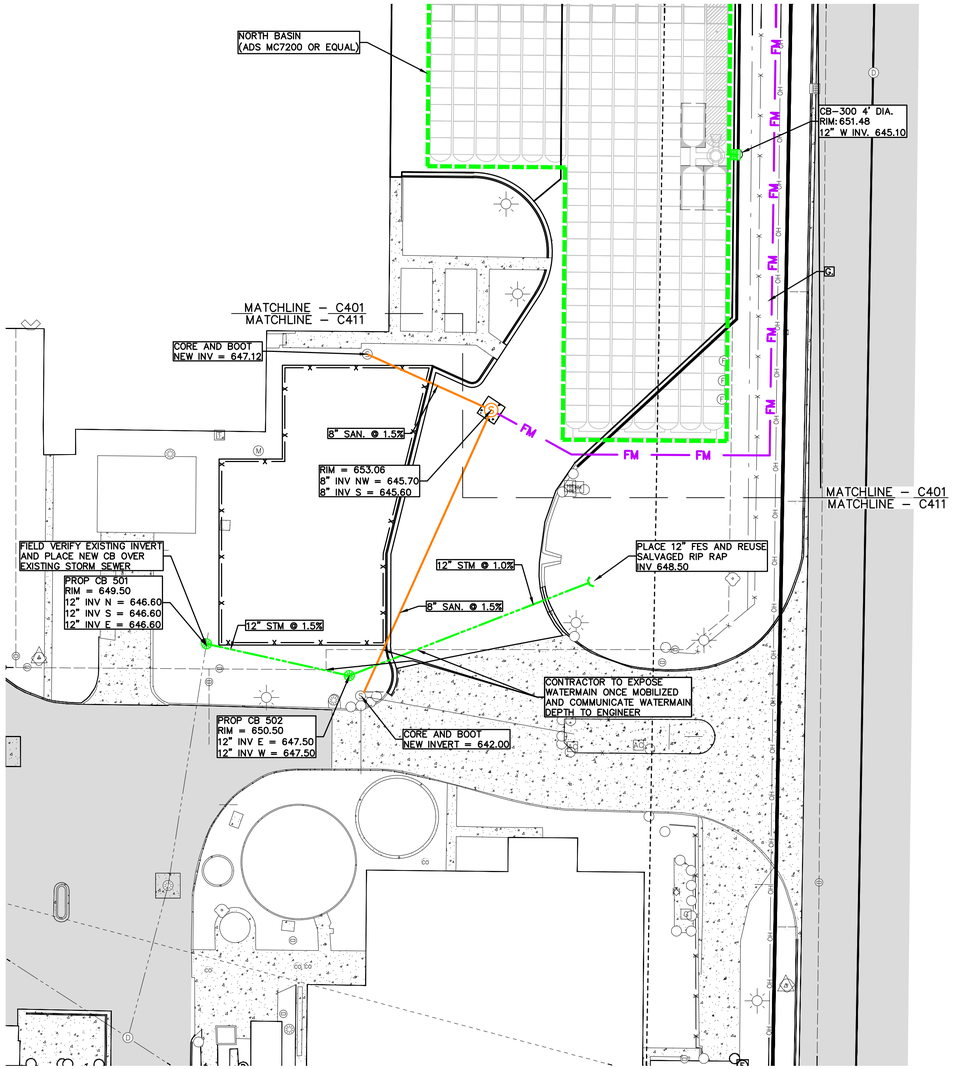
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SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL025120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	
HARD COPY:	
DEPARTMENT:	

SHEET #: ZSC073-1473-C401-UTILITY PLAN

DRAWING NUMBER: C401

SHEET: 16 OF 36

Received: 04/06/26
City of Zeeland, MI



LINE LEGEND

- OH — PROPOSED OVERHEAD ELECTRIC
- E — PROPOSED ELECTRIC
- GAS — PROPOSED GAS
- C — PROPOSED COMMUNICATIONS
- PROPOSED STORM SEWER
- PROPOSED 6" UNDERDRAIN W/ SOCK
- PROPOSED SANITARY SEWER
- FM — PROPOSED FORCEMAIN
- PROPOSED WATERMAIN

KEY NOTES:

A. 12" DOMESTIC WATER
B. 8" FIRE PROTECTION
C. 4" DOMESTIC WATER
D. CONNECT TO EXISTING W/ 8" X 8" X 8" TEE.
E. 4" NATURAL GAS
F. UNDERGROUND ELEC. REROUTE
G. 2" SANITARY FORCEMAIN
H. LIFT STATION. SEE PLUMBING FOR DETAILS.
I. 8" 45° BEND
J. 8" 22.5° BEND
K. 12" 45° BEND
L. 12" 22.5°BEND
M. 6" ROOF DRAIN

GENERAL NOTES:

A. REFER TO SHEET C601 FOR COMPREHENSIVE UTILITY PLAN NOTES
B. ALL SANITARY SEWER TO BE SDR–26.
C. ALL WATERMAIN TO BE C900.
D. ALL SANITARY FORCEMAIN TO BE HDPE.

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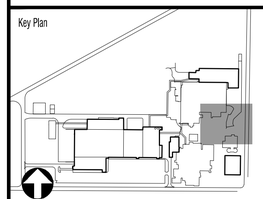
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Drafter / Designer	mm/dd/yy
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Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

MeadJohnson NUTRITION

title: UTILITY PLAN

project: VIVID

location: ZEELAND, MI

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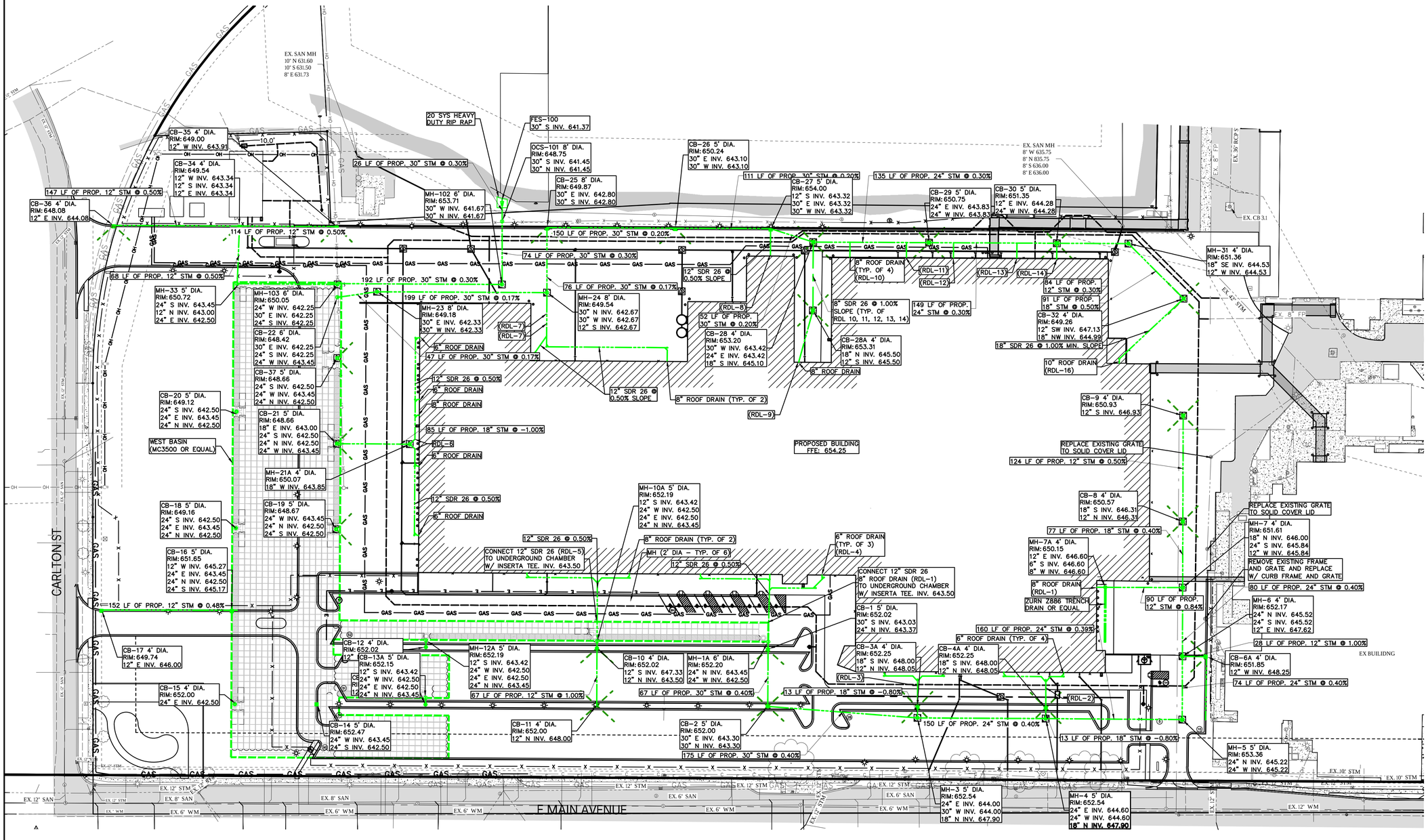
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ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

C.A.R. OR P.O.NUMBER	
SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL025100
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	ZSCSIT-1473-C411-UTILITY PLAN
HARD COPY:	
DEPARTMENT:	

SHEET #: ZSCSIT-1473-C411-UTILITY PLAN
DRAWING NUMBER: C411
SHEET: 17 OF 36

Received: 04/06/26
City of Zeeland, MI



LINE LEGEND

- OH — PROPOSED OVERHEAD ELECTRIC
- E — PROPOSED ELECTRIC
- GAS — GAS — PROPOSED GAS
- C — PROPOSED COMMUNICATIONS
- PROPOSED STORM SEWER
- PROPOSED 6" UNDERDRAIN W/ SOCK
- PROPOSED SANITARY SEWER
- FM — PROPOSED FORCEMAIN
- PROPOSED WATERMAIN

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Kalamazoo, MI 49008
(269) 697-7120

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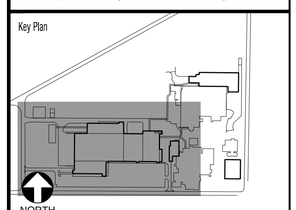
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Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: STORMWATER MANAGEMENT PLAN

project: VIVID

location: ZEELAND, MI

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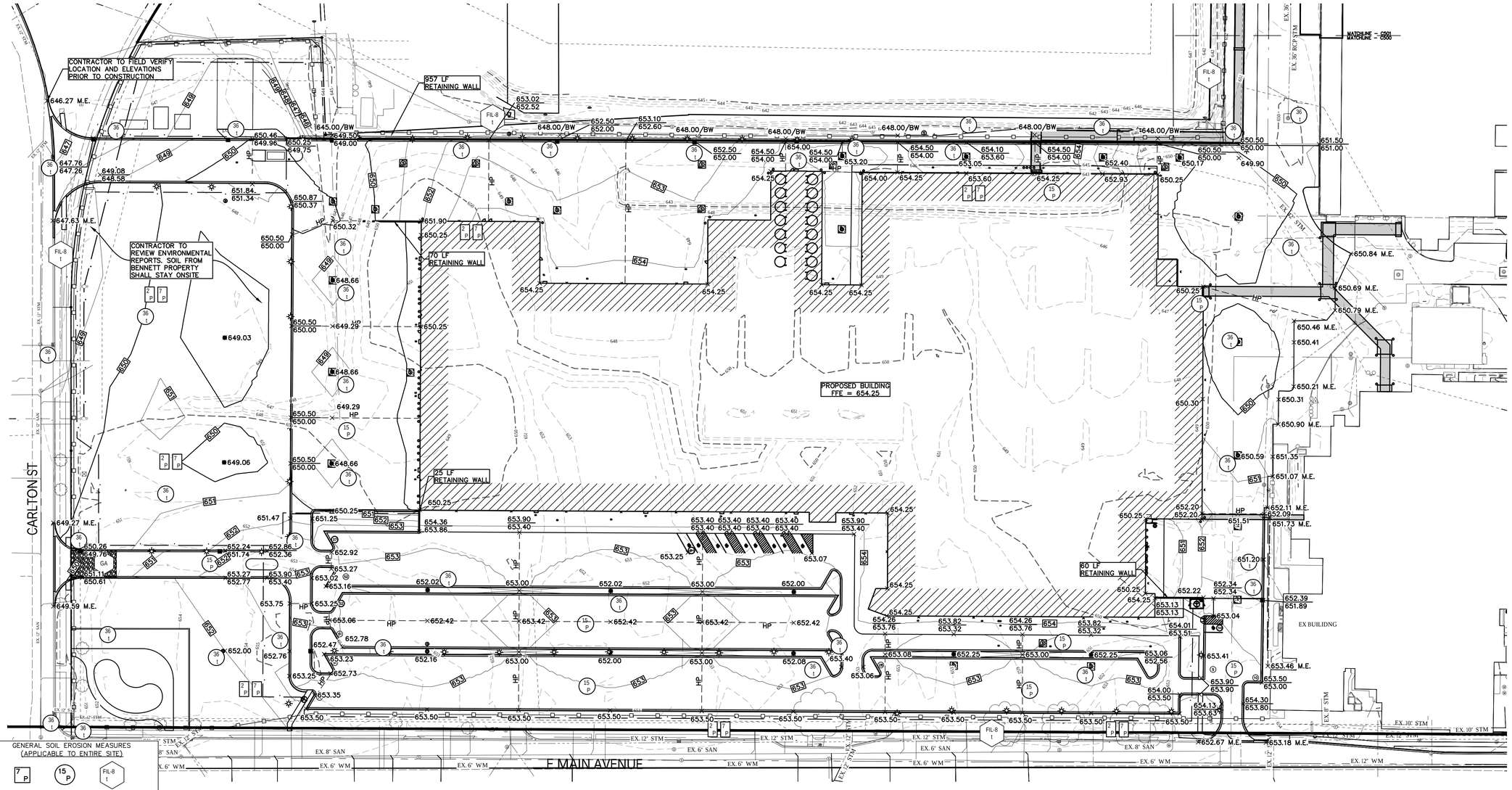
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ENGINEER	ARCHITECT	REV BY	REV
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C.A.R. OR P.O NUMBER:	
SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL025120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	2025T-1472-01-STORMWATER MANAGEMENT PLAN
HARD COPY:	
DEPARTMENT:	
DRAWING NUMBER:	C415
SHEET:	18 OF 36

Received: 04/06/26
City of Zeeland, MI



GENERAL SOIL EROSION MEASURES (APPLICABLE TO ENTIRE SITE)

7 P | 15 P | FIL-8 t | 14 t | 36 t | TP

CONTROL MEASURE KEY

LEGEND

34 t — MICHIGAN UNIFIED KEYING SYSTEM (MUKS)

BEST MANAGEMENT PRACTICE (BMP)

t — TEMPORARY CONTROL MEASURE (DURING CONSTRUCTION AND UNTIL PERMANENT MEASURES ARE ESTABLISHED

P — PERMANENT CONTROL MEASURE

NOTE:

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES INDICATED ARE KNOWN OR ANTICIPATED CONTROL MEASURES NEEDED DURING TYPICAL CONSTRUCTION ACTIVITIES. ADDITIONAL CONTROL MEASURES MAY BE REQUIRED DUE TO CONSTRUCTION ACTIVITY, LOCATION, SOIL TYPE, WEATHER EVENT, ETC. ALL ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INCIDENTAL TO THE CONSTRUCTION CONTRACT.

2 P — SELECTIVE GRADING & SHAPING, PERMANENT

7 P — HYDROSEEDING, PERMANENT. TYPICAL IN ALL NON–PAVED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES

14 t — AGGREGATE COVER, TEMPORARY. TYPICAL ON ALL STREETS DISTURBED BY CONSTRUCTION ACTIVITIES

15 P — PAVING, PERMANENT, TYPICAL ON ALL STREETS DISTURBED BY CONSTRUCTION ACTIVITIES.

FIL-2 t — SEDIMENT BASIN BMP EXHIBIT 2, SEDIMENT BASIN, TEMPORARY REQUIRED FOR DE–WATERING ACTIVITIES, SEVERE SLOPES, AND LARGE DISTURBED AREAS.

36 t — SILTSACK, TEMPORARY, TYPICAL AT ALL CATCH BASINS WITHIN OR DISTURBED BY CONSTRUCTION ACTIVITIES

43 t — CULVERT SEDIMENT TRAP, TEMPORARY. TYPICAL AT ALL STORM OUTLETS AND STREAMS DISTURBED BY CONSTRUCTION ACTIVITIES

FIL-8 t — FILTER BMP EXHIBIT 8A, SILT FENCE, TEMPORARY. TYPICAL IN ALL AREAS, ESPECIALLY ADJACENT TO STREAMS, PONDS, ETC. AND ALONG PROJECT UNITS.

TP — TREE PROTECTION, INCLUDES TUNNELING UNDER TREES, TYPICAL FOR ALL TREES ENCOUNTERED UNLESS TREE REMOVAL IS DIRECTED BY THE ENGINEER.

GA — DENOTES GRAVEL ACCESS APPROACH. APPROACH SHALL BE INSTALLED TO PROVIDE STABLE ACCESS TO ROADWAYS AND MINIMIZE DUST AND TRACKING OF MATERIALS ONTO PUBLIC STREETS AND HIGHWAYS. THE APPROACH SHALL BE A MIN. OF 12' WIDE, 6" DEEP, AND CONSIST OF 2"–4" AGGREGATE.

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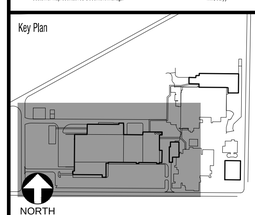
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Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: GRADING PLAN

project: VIVID

location: ZEELAND, MI

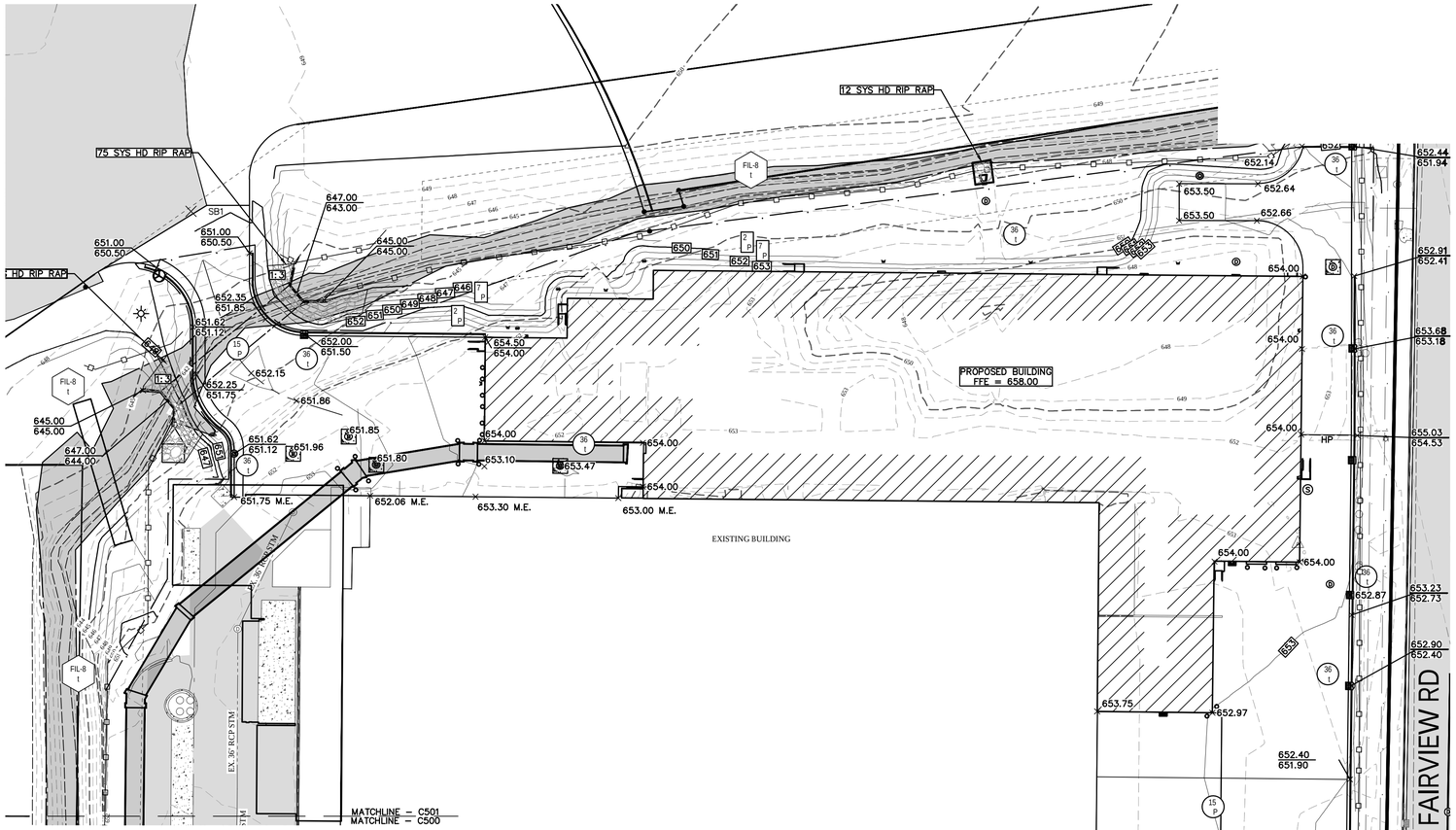
C.A.R. OR P.O NUMBER			
SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			AJS
DESIGNER:			DGL
DRAFTER:			MDS
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GL025120
DISCIPLINE:			CIVIL
SYSTEM NAME:			-
SYSTEM NUMBER:			-
EQUIPMENT TYPE:			-
LEGACY NUMBER:			
LEGACY DATE:			
LEGACY VENDOR:			
CAD FILE NAME:			
HARD COPY:			
DEPARTMENT:			

SHEET #: ZSCST-1473-C500-GRADING PLAN

DRAWING NUMBER: C500

SHEET: 19 OF 36

Received: 04/06/26
City of Zeeland, MI



CONTROL MEASURE KEY

- 2 P — SELECTIVE GRADING & SHAPING, PERMANENT
- 7 P — HYDROSEEDING, PERMANENT. TYPICAL IN ALL NON–PAVED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES
- 14 t — AGGREGATE COVER, TEMPORARY. TYPICAL ON ALL STREETS DISTURBED BY CONSTRUCTION ACTIVITIES
- 15 P — PAVING, PERMANENT, TYPICAL ON ALL STREETS DISTURBED BY CONSTRUCTION ACTIVITIES.
- FIL-2 t — SEDIMENT BASIN BMP EXHIBIT 2, SEDIMENT BASIN, TEMPORARY REQUIRED FOR DE–WATERING ACTIVITIES, SEVERE SLOPES, AND LARGE DISTURBED AREAS.
- 36 t — SILTSACK, TEMPORARY, TYPICAL AT ALL CATCH BASINS WITHIN OR DISTURBED BY CONSTRUCTION ACTIVITIES
- 43 t — CULVERT SEDIMENT TRAP, TEMPORARY. TYPICAL AT ALL STORM OUTLETS AND STREAMS DISTURBED BY CONSTRUCTION ACTIVITIES
- FIL-8 t — FILTER BMP EXHIBIT 8A, SILT FENCE, TEMPORARY. TYPICAL IN ALL AREAS, ESPECIALLY ADJACENT TO STREAMS, PONDS, ETC. AND ALONG PROJECT UNITS.
- TP — TREE PROTECTION, INCLUDES TUNNELING UNDER TREES, TYPICAL FOR ALL TREES ENCOUNTERED UNLESS TREE REMOVAL IS DIRECTED BY THE ENGINEER.
- GA — DENOTES GRAVEL ACCESS APPROACH. APPROACH SHALL BE INSTALLED TO PROVIDE STABLE ACCESS TO ROADWAYS AND MINIMIZE DUST AND TRACKING OF MATERIALS ONTO PUBLIC STREETS AND HIGHWAYS. THE APPROACH SHALL BE A MIN. OF 12' WIDE, 6" DEEP, AND CONSIST OF 2"–4" AGGREGATE.

GENERAL SOIL EROSION MEASURES
(APPLICABLE TO ENTIRE SITE)

7 P | 15 P | FIL-8 t
14 t | 36 t | TP

LEGEND

- 34 t — MICHIGAN UNIFIED KEYING SYSTEM (MUKS)
- BEST MANAGEMENT PRACTICE (BMP)
- t — TEMPORARY CONTROL MEASURE (DURING CONSTRUCTION AND UNTIL PERMANENT MEASURES ARE ESTABLISHED
- P — PERMANENT CONTROL MEASURE

NOTE:

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES INDICATED ARE KNOWN OR ANTICIPATED CONTROL MEASURES NEEDED DURING TYPICAL CONSTRUCTION ACTIVITIES. ADDITIONAL CONTROL MEASURES MAY BE REQUIRED DUE TO CONSTRUCTION ACTIVITY, LOCATION, SOIL TYPE, WEATHER EVENT, ETC. ALL ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INCIDENTAL TO THE CONSTRUCTION CONTRACT.

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SCALE: 1" = 60'
0' 30' 60' 90' 120'

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DATE:

ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

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SUITE 240
LEAWOOD, KS 66206
913.345.9084 PHONE

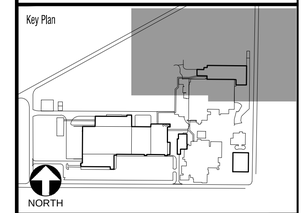
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Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: GRADING PLAN

project: VIVID

location: ZEELAND, MI

C.A.R. OR P.O NUMBER

SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL026120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	
HARD COPY:	
DEPARTMENT:	

SHEET #: ZSC079-1473-C501-GRADING PLAN
DRAWING NUMBER: C501
SHEET: 20 OF 36

Received: 04/06/26
City of Zeeland, MI

CONTROL MEASURE KEY

- 2 P — SELECTIVE GRADING & SHAPING, PERMANENT
- 7 P — HYDROSEEDING, PERMANENT. TYPICAL IN ALL NON-PAVED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES
- 14 t — AGGREGATE COVER, TEMPORARY. TYPICAL ON ALL STREETS DISTURBED BY CONSTRUCTION ACTIVITIES
- 15 P — PAVING, PERMANENT, TYPICAL ON ALL STREETS DISTURBED BY CONSTRUCTION ACTIVITIES.
- FIL-2 t — SEDIMENT BASIN BMP EXHIBIT 2, SEDIMENT BASIN, TEMPORARY REQUIRED FOR DE-WATERING ACTIVITIES, SEVERE SLOPES, AND LARGE DISTURBED AREAS.
- 36 t — SILTSACK, TEMPORARY, TYPICAL AT ALL CATCH BASINS WITHIN OR DISTURBED BY CONSTRUCTION ACTIVITIES
- 43 t — CULVERT SEDIMENT TRAP, TEMPORARY. TYPICAL AT ALL STORM OUTLETS AND STREAMS DISTURBED BY CONSTRUCTION ACTIVITIES
- FIL-8 t — FILTER BMP EXHIBIT 8A, SILT FENCE, TEMPORARY. TYPICAL IN ALL AREAS, ESPECIALLY ADJACENT TO STREAMS, PONDS, ETC. AND ALONG PROJECT UNITS.
- TP — TREE PROTECTION, INCLUDES TUNNELING UNDER TREES, TYPICAL FOR ALL TREES ENCOUNTERED UNLESS TREE REMOVAL IS DIRECTED BY THE ENGINEER.
- GA — DENOTES GRAVEL ACCESS APPROACH. APPROACH SHALL BE INSTALLED TO PROVIDE STABLE ACCESS TO ROADWAYS AND MINIMIZE DUST AND TRACKING OF MATERIALS ONTO PUBLIC STREETS AND HIGHWAYS. THE APPROACH SHALL BE A MIN. OF 12' WIDE, 6" DEEP, AND CONSIST OF 2"-4" AGGREGATE.

GENERAL SOIL EROSION MEASURES
(APPLICABLE TO ENTIRE SITE)

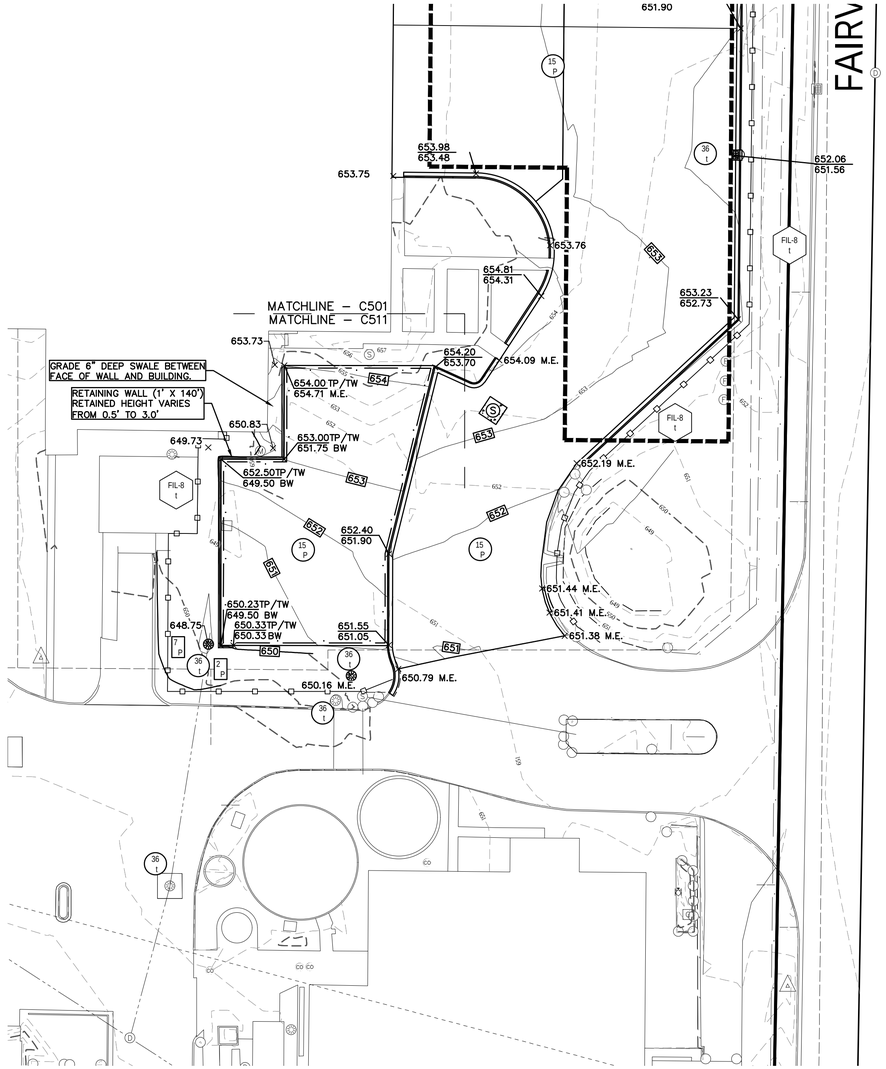
7 P, 15 P, FIL-8 t, 14 t, 36 t, TP

LEGEND

- 34 t — MICHIGAN UNIFIED KEYING SYSTEM (MUKS)
- BEST MANAGEMENT PRACTICE (BMP)
- t — TEMPORARY CONTROL MEASURE (DURING CONSTRUCTION AND UNTIL PERMANENT MEASURES ARE ESTABLISHED
- P — PERMANENT CONTROL MEASURE

NOTE:

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES INDICATED ARE KNOWN OR ANTICIPATED CONTROL MEASURES NEEDED DURING TYPICAL CONSTRUCTION ACTIVITIES. ADDITIONAL CONTROL MEASURES MAY BE REQUIRED DUE TO CONSTRUCTION ACTIVITY, LOCATION, SOIL TYPE, WEATHER EVENT, ETC. ALL ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INCIDENTAL TO THE CONSTRUCTION CONTRACT.



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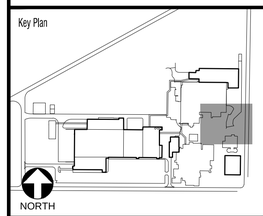
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Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: GRADING PLAN

project: VIVID

location: ZEELAND, MI

PIERCE ENGINEERS
181 N. Broadway Ave
Milwaukee, WI 53202
414.278.6060
www.pierceengineers.com

VK CIVIL Vriesman & Korhorn
4664 Campus Dr. Ste 111
Kalamazoo, MI 49008
(269) 697-7120

SCALE: 1" = 30'

0' 15' 30' 45' 60'

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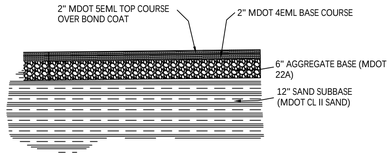
DATE:

ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

C.A.R. OR P.O NUMBER	
SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL005120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	
HARD COPY:	
DEPARTMENT:	

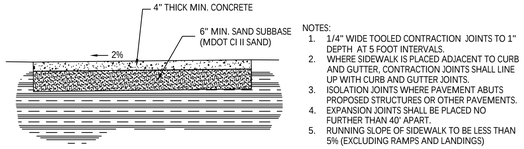
SHEET #: ZSSIT-1473-C511-GRADING PLAN
DRAWING NUMBER: C511
SHEET: 21 OF 36

Received: 04/06/26
City of Zeeland, MI



STANDARD DUTY PAVING DETAIL

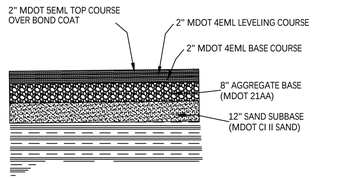
NOT TO SCALE



NOTES:
1. 1/4" WIDE TOOLED CONTRACTION JOINTS TO 1" DEPTH AT 5 FOOT INTERVALS.
2. WHERE SIDEWALK IS PLACED ADJACENT TO CURB AND GUTTER, CONTRACTION JOINTS SHALL LINE UP WITH CURB AND GUTTER JOINTS.
3. ISOLATION JOINTS WHERE PAVEMENT ABUTS PROPOSED STRUCTURES OR OTHER PAVEMENTS.
4. EXPANSION JOINTS SHALL BE PLACED NO FURTHER THAN 40' APART.
5. RUNNING SLOPE OF SIDEWALK TO BE LESS THAN 5% (EXCLUDING RAMPS AND LANDINGS)

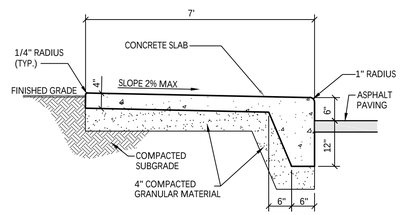
CONCRETE SIDEWALK DETAIL

NOT TO SCALE



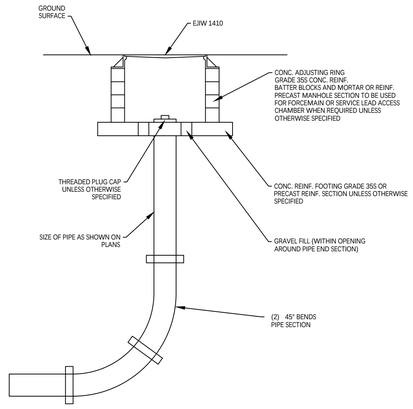
HEAVY DUTY PAVEMENT DETAIL

NOT TO SCALE



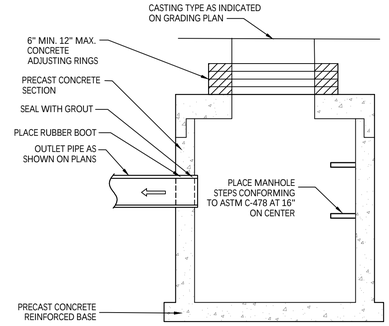
THICKENED EDGE SIDEWALK

NOT TO SCALE



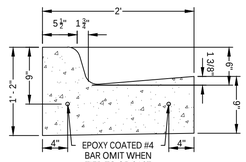
CLEANOUT DETAIL

NOT TO SCALE



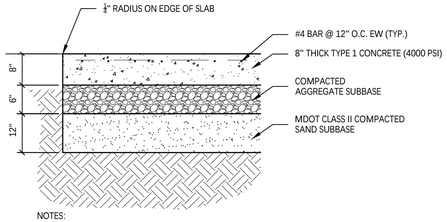
CATCH BASIN DETAIL

NOT TO SCALE



F4 CURB DETAIL

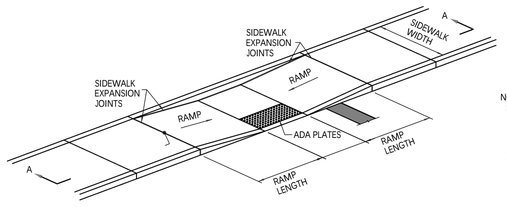
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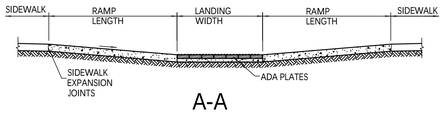


NOTES:
1. 1/4" WIDE SAWCUT CONTROL JOINTS TO 2.5" DEPTH AT 10' O.C. EACH DIRECTION WITHIN 12 HOURS OF FINISHING CONCRETE.
2. ISOLATION JOINTS WHERE PAVEMENT ABUTS PROPOSED STRUCTURES OR OTHER PAVEMENTS.
3. CONCRETE TO BE 8" THICK 4,000 PSI PORTLAND CEMENT
4. REINFORCEMENT TO BE #4 BAR @ 12" O.C. EW
5. 3" MINIMUM COVER FOR #4 REINFORCING BARS
6. 3" MINIMUM CLEAR SPACE FOR #4 REINFORCING BAR

HD CONCRETE PAVEMENT DETAIL

NOT TO SCALE





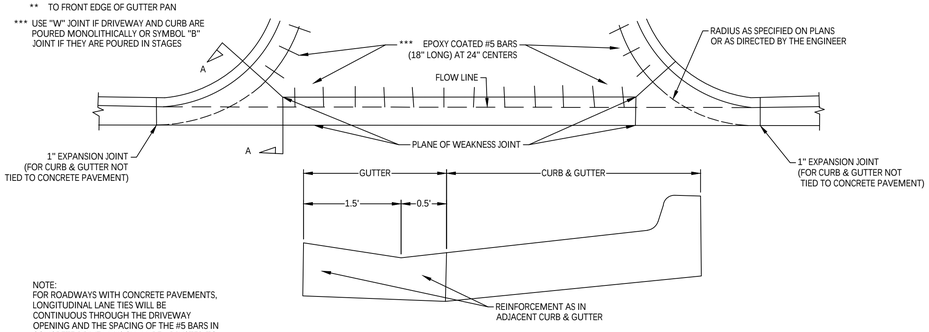
A-A

PARALLEL CURB RAMP DETAIL

NOT TO SCALE

** TO FRONT EDGE OF GUTTER PAN

*** USE "W" JOINT IF DRIVEWAY AND CURB ARE POURED MONOLITHICALLY OR SYMBOL "B" JOINT IF THEY ARE POURED IN STAGES

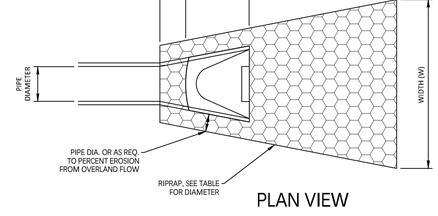


SECTION A-A

NOTE:
FOR ROADWAYS WITH CONCRETE PAVEMENTS, LONGITUDINAL LANE TIES WILL BE CONTINUOUS THROUGH THE DRIVEWAY OPENING AND THE SPACING OF THE #5 BARS IN CONCRETE DRIVEWAYS SHALL BE ADJUSTED TO AVOID CONFLICT WITH LONGITUDINAL LANE TIES.

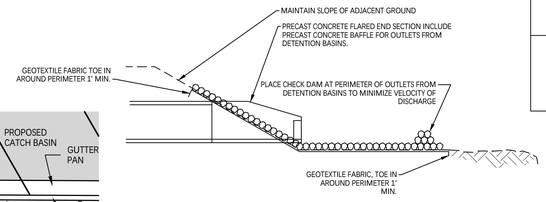
CONCRETE DRIVEWAY OPENING, DETAIL M

NOT TO SCALE



PLAN VIEW

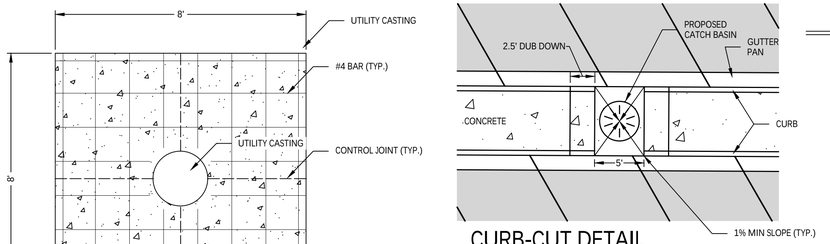
RIPRAP TABLE			
PIPE DIA.	LENGTH (FT)	WIDTH (FT)	RIPRAPØ (IN)
12" 15" 18"	5'	8'	8"–16" (PLAN)
24" 30" 36"	10'	14'	8"–16" (PLAN)
42" 48" 54" 60"	15'	20'	GREATER THAN 16" (HEAVY)



SECTION VIEW

TYPICAL END SECTION DETAIL

NOT TO SCALE



NOTES:
1. THE BOTTOM EDGE OF THE LANDING AND THE TOP EDGE OF CURB SHALL BE FLUSH WITH THE EDGE OF ADJACENT PAVEMENT AND GUTTER LINE..
2. CURB RAMP SURFACE SHALL BE COARSE BROOMED TRANSVERSE TO THE RUNNING SLOPE.
3. LANDING SHALL HAVE A MINIMUM CLEAR DIMENSION OF 4'X4' AND A RUNNING SLOP OF 2% MAX.

NOTES:
1. 1/4" WIDE SAWCUT CONTROL JOINTS TO 2.5" DEPTH AT 10' O.C. EACH DIRECTION WITHIN 12 HOURS OF FINISHING CONCRETE.
2. ISOLATION JOINTS WHERE PAVEMENT ABUTS PROPOSED STRUCTURES OR OTHER PAVEMENTS.
3. CONCRETE TO BE 8" THICK 4,000 PSI PORTLAND CEMENT
4. REINFORCEMENT TO BE #4 BAR @ 12" O.C. EW
5. 3" MINIMUM COVER FOR #4 REINFORCING BARS
6. 3" MINIMUM CLEAR SPACE FOR #4 REINFORCING BAR

CONCRETE PAD AROUND UTILITY CASTINGS

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CURB-CUT DETAIL

NOT TO SCALE

PIERCE ENGINEERS
181 N. Broadway Ave
Milwaukee, WI 53202
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www.pierceengineers.com

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4664 Campus Dr. Ste 111
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Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan

NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DETAILS

project: VIVID

location: ZEELAND, MI

SEAL

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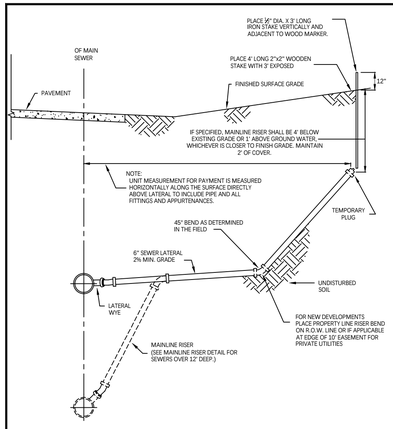
DATE:

ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

C.A.R. OR P.O NUMBER:	
SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL005129
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
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LEGACY DATE:	
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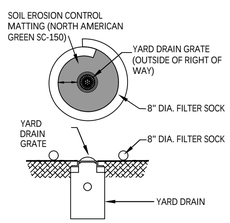
SHEET #: ZSCSIT-1473-C600-DETAILS
DRAWING NUMBER: C600
SHEET: 22 OF 36

Received: 04/06/26
City of Zeeland, MI



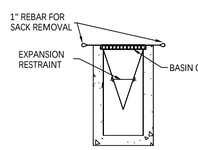
LATERAL AND PROPERTY LINE RISER DETAIL

NOT TO SCALE



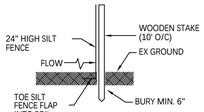
INLET PROTECTION DETAIL

NOT TO SCALE



SILT SACK DETAIL

NOT TO SCALE



SILT FENCE DETAIL

NOT TO SCALE

SITE LAYOUT NOTES:

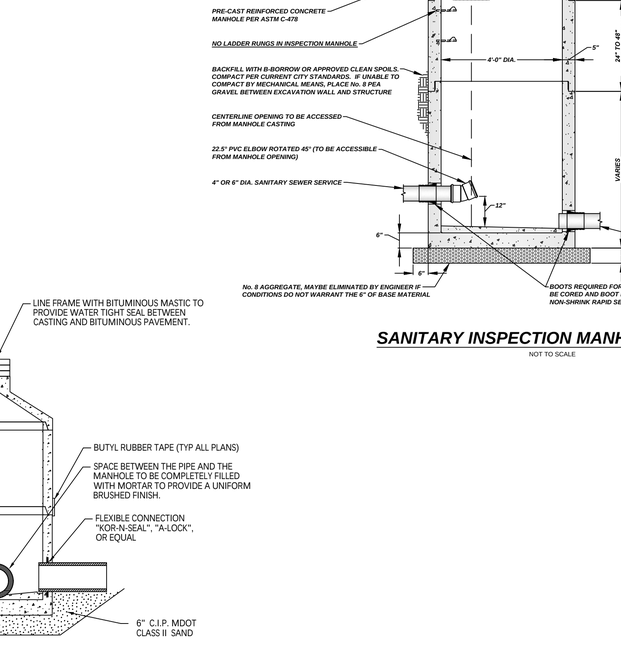
1) ALL WORK SHALL BE DONE TO ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS.
2) ALL WORK WITHIN ROW SHALL BE DONE IN ACCORDANCE WITH LOCAL ROADWAY JURISDICTION REQUIREMENTS.
3) CONTRACTOR SHALL RESTORE ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE, AND OTHER INFRASTRUCTURE DISTURBED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES TO MATCH EXISTING CONDITIONS.
4) ALL DEBRIS SHALL BE REMOVED FROM THE SITE, AND NO STOCKPILING ON SITE SHALL BE ALLOWED UNLESS APPROVED BY OWNER.
5) THE CONTRACTOR SHALL LIMIT SAWCUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE REQUIRED OR AS SHOWN. ALL PAVEMENTS TO BE REMOVED SHALL BE SAWCUT AND REMOVED TO FULL DEPTH AT ALL PAVEMENT LIMITS OR EXISTING JOINTS. IF ANY DAMAGE IS INCURRED TO ANY OF THE SURROUNDING PAVEMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR AT NO ADDITIONAL COST.
6) CONTRACTOR SHALL CONTACT MISS DIG THREE WORKING DAYS BEFORE YOU DIG. CALL MISS DIG AT 1-800-482-7171 OR 811.
7) ALL WORK SHALL BE DONE TO THE MICHIGAN HANDICAPPED ACCESSIBILITY CODE AND THE AMERICANS WITH DISABILITIES ACT.
8) ADA PARKING SPACES SHALL BE MARKED WITH APPROVED PAVEMENT SYMBOL. MARK ADA SPACES WITH 4" BLUE PAINT AND SIGNS PER MMUTCD.
9) CONTRACTOR SHALL ENSURE ALL ADA RAMPS AND ACCESS MEET CURRENT ADA STANDARDS. IF IT IS DISCOVERED THAT ANY ITEMS WILL NOT MEET ADA STANDARDS IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
10) ALL SIGNAGE SHALL BE PER MDOT AND MMUTCD STANDARDS.
11) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, PERMIT COSTS, DEMOLITION PERMITS, TAP FEES, ASSESSMENTS, UTILITY PERMITS, ROW PERMITS, BONDS, INSURANCE, OR OTHER FEES ASSOCIATED WITH CONSTRUCTION.
12) SITE CONCRETE TO HAVE A COMPRESSIVE STRENGTH OF A MINIMUM 4000 PSI AND SHALL HAVE LIMESTONE AGGREGATE AND SHALL HAVE A 5.5%-8% AIR ENTRAINMENT WITH A BROOM FINISH.
13) INSTALL EXPANSION JOINTS AT ALL LOCATIONS WHERE CONCRETE ABUTS HMA PAVEMENT.
14) CONTRACTOR SHALL REVIEW THE GEOTECHNICAL AND ENVIRONMENTAL REPORTS FOR THE SITE AND INCORPORATE INTO THEIR CONSTRUCTION MEANS AND METHODS.
15) THESE PLANS HAVE BEEN DEVELOPED FOR ELECTRONIC FIELD SURVEY LAYOUT. DIMENSIONS SHOWN ARE FOR GRAPHIC PRESENTATION ONLY AND SHOULD NOT BE USED FOR LAYOUT. CONTACT THE ENGINEER IF ANY DISCREPANCIES BETWEEN THE PLAN AND ELECTRONIC DATA ARE DISCOVERED.
16) THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LIGHTS, BARRICADES, FLAGMEN, ETC. AS REQUIRED TO PERFORM THE WORK. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.
17) THE CONTRACTOR SHALL PROTECT LOCATION OF ALL PROPERTY MARKERS AND BENCHMARKS.
18) THE CONTRACTOR IS RESPONSIBLE FOR ALL SIGNS, BARRICADES, AND SAFETY FENCES TO DETER PEOPLE FROM ENTERING THE WORK AREA AND FOR MAINTAINING AND PROTECTING THE FLOW OF VEHICULAR AND PEDESTRIAN TRAFFIC AROUND THE JOB SITE. TRAFFIC CONTROLS SHALL BE COORDINATED WITH THE LOCAL POLICE DEPARTMENT AND MUNICIPALITY.
19) PRIOR TO CONSTRUCTION OR GRADING A PROTECTIVE BARRIER, FENCE, POST, AND SIGNS CLEARLY INDICATING LIMITS OF DISTURBANCE SHALL BE INSTALLED INDICATING NO TREE REMOVAL OR DISTURBANCES OUTSIDE LIMITS.
20) NO PARKING OF CONTRACTOR OR SUBCONTRACTORS SHALL BE ALLOWED ON PUBLIC STREETS WITHOUT PRIOR APPROVAL.
21) NO BUILDING MATERIAL, EQUIPMENT, VEHICLES, OR CHEMICALS SHALL BE STORED OR PLACED OUTSIDE OF THE LIMITS OF DISTURBANCE.
22) CONSTRUCTION NOISE SHALL BE KEPT TO A MINIMUM DURING NIGHTTIME HOURS AND MUST COMPLY WITH LOCAL MUNICIPAL ORDINANCES.
23) ALL VERTICAL FACE OF CURBS SHALL BE PAINTED YELLOW WHEN BETWEEN 0 AND 6 INCHES TALL.

GRADING PLAN NOTES:

1) SOILS EXPOSED IN THE BASE OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGES IN CONDITION SUCH AS FROM DISTURBANCE, RAIN AND FREEZING. SURFACE RUN-OFF WATER SHOULD BE DRAINED AWAY FROM THE EXCAVATION AND NOT ALLOWED TO POND. IF POSSIBLE, ALL FOOTING CONCRETE SHOULD BE POURED THE SAME DAY THE EXCAVATION IS MADE. IF THIS IS NOT PRACTICAL, THE FOOTING EXCAVATIONS SHOULD BE ADEQUATELY PROTECTED.
2) REMOVE ALL SUBGRADE MATERIAL THAT MAY BE SOFTENED BY RAINS, FREEZING, OR CONSTRUCTION TRAFFIC, ETC, AND REPLACE WITH COMPACTED GRANULAR FILL.
3) ALL CONSTRUCTION METHODS SHALL BE DONE IN COMPLIANCE WITH MDOT-EGLE. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING A "SOIL EROSION PERMIT" FROM THE COUNTY AND A "PERMIT BY RULE/NOTICE OF COVERAGE" FROM EGLE IF APPLICABLE, PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS OF THE COUNTY "SOIL EROSION PERMIT" AND FOR ALL CERTIFIED STORM WATER INSPECTION SERVICE REQUESTED BY THE "PERMIT BY RULE." EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS AND SHALL NOT RELIEVE THE CONTRACTORS RESPONSIBILITY FOR PROVIDING ALL REQUIRED EROSION CONTROL MEASURES.
4) AVOID UNNECESSARY DISTURBING OR REMOVING OF EXISTING VEGETATED TOPSOIL OR EARTH COVER, THESE COVER AREAS ACT AS SEDIMENT FILTERS.
5) ALL TEMPORARY SOIL EROSION PROTECTION SHALL REMAIN IN PLACE UNTIL REMOVAL IS REQUIRED FOR FINAL CLEAN UP AND APPROVAL.
6) GEOTEXTILE SILT FENCE SHALL BE INSTALLED AS REQUIRED WHEN CROSSING CREEKS OR WHEN ADJACENT TO WETLANDS OR SURFACE WATER BODIES TO PREVENT SILTATION AND ELSE WHERE AS DIRECTED BY THE ENGINEER. SEEDING AND/OR SODDING SHALL BE INSTALLED ON CREEK BANKS IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.
7) CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID TRACKING SOIL ONTO ADJACENT ROADWAYS. CONTRACTOR SHALL SWEEP IMMEDIATELY IF THIS OCCURS.
8) ANY DISTURBED AREA WHICH WILL BE LEFT UNWORKED 20 DAYS OR LONGER MUST BE SEEDED TO ESTABLISH VEGETATION. TEMPORARY STABILIZATION BASINS TO BE SEEDED AND MULCH BLANKETS APPLIED IMMEDIATELY TO PROVIDE A STABLE BASE AND AVOID EXCESSIVE EROSION.
9) ALL SOIL EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO THE START OF ANY GRADING.
10) ALL NON PAVED AREAS TO BE TOPSOILED (6" MIN.) & SEEDED.
11) VARIATION IN EXISTING SOIL CONDITIONS MAY IMPACT THE EARTHWORK QUANTITIES IF UNUSABLE SOILS ARE ENCOUNTERED DURING CONSTRUCTION.
12) DUST CONTROL: THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY SUCH AS CALCIUM CHLORIDE, WATER OR A MOTORIZED DUST-FREE STREET SWEEPING DEVICE TO MAINTAIN ALL ROADWAYS BEING USED FOR ACCESS TO THE CONSTRUCTION SITE AND SHALL ADHERE TO ALL ORDINANCES OF THE TOWNSHIP, COUNTY, EGLE OR ANY OTHER GOVERNMENT AGENCY.
13) IF MUD, SOIL OR OTHER DEBRIS IS DEPOSITED ON ADJACENT STREETS, ROADS OR OTHER PROPERTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SUCH AT THE END OF EACH WORK DAY OR AS REQUIRED DURING THE WORK DAY.
14) STORMWATER POLLUTION PREVENTION ITEMS SHALL BE IN PLACE PRIOR TO COMMENCING CLEARING OPERATIONS, EARTHWORK GRADING, OR ANY OTHER TYPE OF CONSTRUCTION ACTIVITY.
15) CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE SOIL EROSIONS AND SEDIMENT CONTROL PERMIT.
16) PLACE TEMPORARY EROSION CONTROL MEASURES PRIOR TO EARTH MOVING ACTIVITIES.
17) MULCH BLANKETS SHALL BE PLACED, STAPLED, AND OVERLAPPED ON ALL SLOPES THAT ARE 1 ON 3 OR GREATER AFTER.
18) CONTRACTOR TO INSTALL SILT SACK IN ALL CATCH BASINS ONCE THEY ARE CONSTRUCTED.
19) ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY A CERTIFIED STORM WATER OPERATOR AND MAINTAINED BY CONTRACTOR EVERY 7 DAYS AND AFTER EVERY SIGNIFICANT RAIN EVENT IN ACCORDANCE WITH NPDES PERMIT BY RULE REQUIREMENTS IF APPLICABLE.
20) EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED.
21) BEST MANAGEMENT PRACTICES WILL BE UTILIZED DURING AND AFTER CONSTRUCTION OF THE PROJECT. MEASURES WILL INCLUDE THE USE OF SILT FENCING, SEEDING AND MULCHING, SEDIMENT INLET FILTERS, COMPACTION AND PAVING. THE OWNER OF THE SUBJECT PARCEL SHALL HAVE THE RESPONSIBILITY TO MAINTAIN THE PERMANENT SOIL EROSION PROTECTION MEASURES.
22) ANY POND AREA LABELED AS "INFILTRATION" OR "RETENTION" SHALL BE CONSTRUCTED IN A MANNER AS TO MINIMIZE COMPACTION OF EXISTING SUBGRADE. CONTRACTOR SHALL PROTECT AREA FROM COMPACTION PRIOR TO INSTALLATION AND THROUGHOUT CONSTRUCTION. IF NECESSARY, EXCAVATE BASIN BOTTOM TO AN UNCOMPACTED SUBGRADE FREE OF ROCKS AND DEBRIS AND ENSURE A SANDY BOTTOM. DO NOT COMPACT SUBGRADE. SEED AND STABILIZE THE BASIN WITH AN MDOT TDS SEED MIXTURE OR MEADOW MIX AS APPROVED BY THE ENGINEER.

UTILITY PLAN NOTES:

1) CONTRACTOR SHALL CONTACT PRIVATE AND PUBLIC UTILITY COMPANIES IF ANY COORDINATION IS NEEDED BETWEEN PROPOSED WORK AND EXISTING UTILITIES.
2) UTILITIES SHOWN (IF ANY) ARE APPROXIMATE LOCATIONS DERIVED FROM MEASUREMENTS OR AVAILABLE RECORDS. THIS MAP IS NOT TO BE INTERPRETED AS SHOWING EXACT LOCATIONS OR SHOWING ALL UTILITIES IN THE AREA. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITY INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY FOR ACCURACY, LOCATION, AND CONDITION.
3) ALL WATERMAIN TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL WATER UTILITY STANDARDS AND EGLE STANDARDS.
4) ALL SANITARY SEWER TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL SANITARY SEWER UTILITY STANDARDS AND EGLE STANDARDS.
5) ALL 6" UNDERDRAIN TO BE CORRUGATED PLASTIC PIPE WITH SOCK, ADS N-12 OR APPROVED EQUAL.
6) ALL STORM SEWER SHALL BE SMOOTH LINED CORRUGATED PLASTIC PIPE, ADS N-12 OR EQUAL, UNLESS OTHERWISE LABELED ON THE PLANS.
7) ALL EXISTING CASTINGS FOR STRUCTURES TO BE ADJUSTED OR RECONSTRUCTED TO GRADE SHALL BE FIELD VERIFIED AT THE TIME OF CONSTRUCTION AND MARKED SUITABLE FOR SALVAGE AND REUSE OR REPLACED.
8) ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
9) CATCH BASINS WITHIN CONCRETE HEAD CURB SHALL HAVE EJ 7045 CASTINGS.
10) CATCH BASINS WITHIN BIT VALLEY CURB SHALL HAVE EJ 7065 CASTINGS WITH M1 GRATE.
11) CATCH BASINS WITHIN PAVED AREAS SHALL HAVE EJ 1020M1 RADIAL FLATE GRATE CASTINGS.
12) STORM SEWER MANHOLES SHALL HAVE EJ 1020 CASTINGS WITH SOLID COVERS.
13) STORM SEWER YARD DRAINS SHALL HAVE EJ 6508 CASTINGS.
14) ROOF DRAINS SHALL BE PVC SCH-40.
15) CONTRACTOR IS TO UNCOVER AND VERIFY ALL TAP LOCATIONS AND INVERTS. LOCATION AND INVERT DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION FOR RESOLUTION PRIOR TO CONTINUING WORK.
16) SANITARY AND STORM STRUCTURES SHALL BE PRECAST AND HAVE A MAXIMUM OF 2 ADJUSTING RINGS FOR FINISH GRADE ADJUSTMENT.
17) THE CONTRACTOR SHALL MAINTAIN EXISTING UTILITY SERVICE TO ALL ADJOINING PROPERTIES.

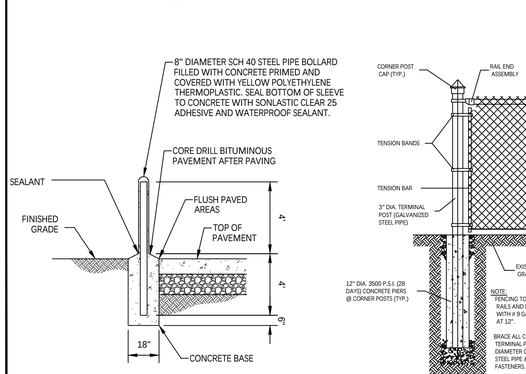


NOTES:

1. ALL STRUCTURES MUST BE INSPECTED BY A CITY REPRESENTATIVE PRIOR TO INSTALLATION. STRUCTURES WILL BE REJECTED IF REINFORCING STEEL IS EXPOSED, VOIDS IN THE CONCRETE, DAMAGE TO CONCRETE EDGES BETWEEN SECTIONS AND ANY OTHER ITEMS THAT MAY COMPROMISE THE STRUCTURE
2. WASTEWATER PRETREATMENT REQUIRES A MINIMUM OF 1 1/2" OF LIQUID DEPTH FOR SAMPLING EQUIPMENT TO COLLECT SAMPLE

SANITARY INSPECTION MANHOLE DETAIL

NOT TO SCALE

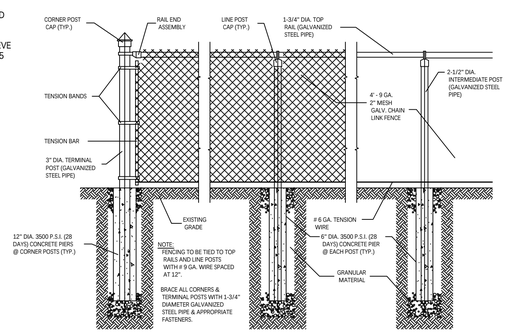


STANDARD SANITARY MANHOLE

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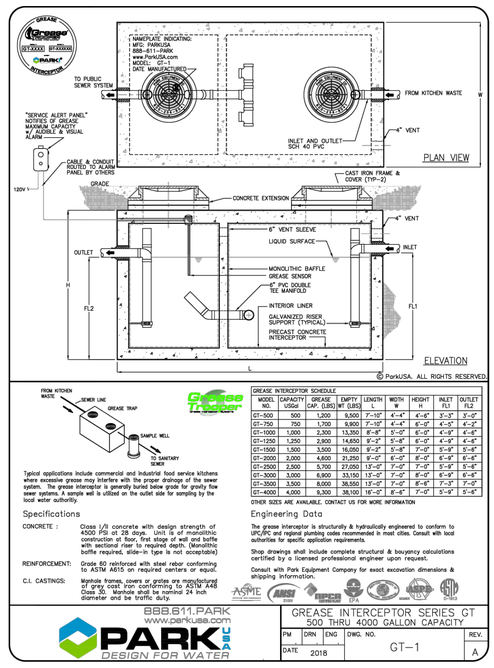
BOLLARD DETAIL

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CHAIN LINK FENCE DETAIL

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Typical applications include commercial and industrial food service kitchens where excessive grease may interfere with the proper drainage of the sewer system. The grease interceptor is generally buried below grade for gravity flow sewer systems. A sample well is utilized on the outlet side for sampling by the local water authority.

GREASE INTERCEPTOR SCHEDULE									
MODEL NO.	CAPACITY USGal	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
GT-500	500	1,200	9,500	7'-10"	4'-4"	4'-8"	3'-3"	3'-0"
GT-750	750	1,700	9,800	7'-10"	4'-4"	6'-0"	4'-5"	4'-2"
GT-1000	1,000	2,300	13,350	8'-8"	5'-0"	6'-0"	4'-8"	4'-5"
GT-1250	1,250	2,900	14,850	9'-3"	5'-8"	6'-0"	4'-8"	4'-5"
GT-1500	1,500	3,500	16,050	9'-3"	5'-8"	7'-0"	5'-8"	5'-5"
GT-2000	2,000	4,600	21,250	9'-0"	6'-0"	8'-0"	6'-6"	6'-4"
GT-2500	2,500	5,700	27,050	13'-0"	7'-0"	7'-0"	5'-8"	5'-6"
GT-3000	3,000	6,900	33,150	13'-0"	7'-0"	8'-0"	6'-8"	6'-6"
GT-3500	3,500	8,000	38,550	13'-0"	7'-0"	8'-6"	7'-3"	7'-0"
GT-4000	4,000	9,300	38,100	16'-0"	8'-6"	7'-0"	5'-9"	5'-6"

OTHER SIZES ARE AVAILABLE. CONTACT US FOR MORE INFORMATION

Specifications

CONCRETE : Class I/II concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor, first stage of wall and baffle with sectional riser to required depth. (Monolithic baffle required, slide-in type is not acceptable)

REINFORCEMENT: Grade 60 reinforced with steel rebar conforming to ASTM A615 on required centers or equal.

CI. CASTINGS: Manhole frames, covers or grates are manufactured of grey cast iron conforming to ASTM A48 Class 30. Manhole shall be nominal 24 inch diameter and be traffic duty.

Engineering Data

The grease interceptor is structurally & hydraulically engineered to conform to UPC/IPC and regional plumbing codes recommended in most cities. Consult with local authorities for specific application requirements.

Shop drawings shall include complete structural & buoyancy calculations certified by a licensed professional engineer upon request.

Consult with Park Equipment Company for exact excavation dimensions & shipping information.

888.811.PARK
www.parkusa.com
PARK USA
DESIGN FOR WATER

GREASE INTERCEPTOR SERIES GT
500 THRU 4000 GALLON CAPACITY

PM	DRN	ENG	DWG. NO.	REV.
DATE 2018			GT-1	A

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Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan

NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DETAILS
project: VIVID
location: ZEELAND, MI

SEAL

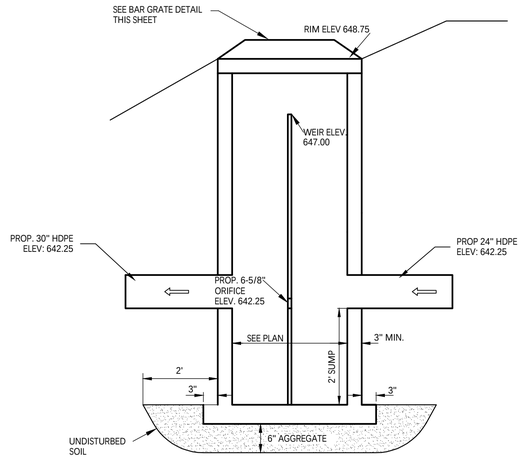
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DATE:

ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

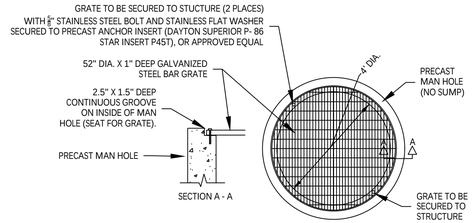
C.A.R. OR P.O. NUMBER	
SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	ADS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL025120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	SHEET # ZSCSIT-1473-C601-DETAILS
LEGACY DATE:	
LEGACY VENDOR:	DRAWING NUMBER C601
CAD FILE NAME:	
HARD COPY:	
DEPARTMENT:	SHEET: 23 OF 36

Received: 04/06/26
City of Zeeland, MI



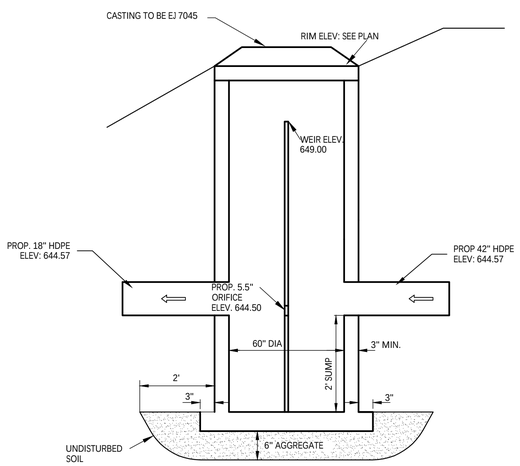
OCS - 101 DETAIL

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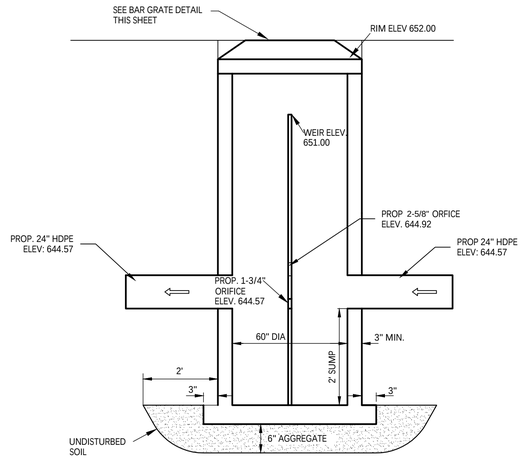
BAR GRATE DETAIL

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OCS - 402 DETAIL

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OCS - 203 DETAIL

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Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
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Key Plan

NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DETAILS

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location: ZEELAND, MI

C.A.R. OR P.O. NUMBER:

SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			AOS
DESIGNER:			DGL
DRAFTER:			MDS
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GL205120
DISCIPLINE:			CIVIL
SYSTEM NAME:			-
SYSTEM NUMBER:			-
EQUIPMENT TYPE:			-
LEGACY NUMBER:			
LEGACY DATE:			
LEGACY VENDOR:			
CAD FILE NAME:			
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DEPARTMENT:			

SHEET #: ZSCSIT-1473-C602-DETAILS

DRAWING NUMBER: C602

SHEET: 24 OF 36

Received: 04/06/26
City of Zeeland, MI

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	HAIDER NASRULLAH 647-850-9417 HAIDER.NASRULLAH@ADSPIPE.COM
ADS SALES REP:	JESHUA ROBERT SHORT 616-980-7431 JESHUA.SHORT@ADSPIPE.COM
PROJECT NO:	S516508

Advanced Drainage Systems, Inc.

SiteAssist™
FOR STORMTECH
INSTALLATION INSTRUCTIONS
VISIT OUR APP

ZEELAND UNDERGROUND

ZEELAND, MI

MC-7200 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-7200.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

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IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-7200 CHAMBER SYSTEM

1. STORMTECH MC-7200 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE MC-7200 CHAMBER".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
9. STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
10. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
11. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
12. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE MC-7200 CHAMBER".
2. THE USE OF EQUIPMENT OVER MC-7200 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE MC-7200 CHAMBER".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH INSTALLATION GUIDE MC-7200 CHAMBER".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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DATE:

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DGL	SRF	MCC	A

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Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan

NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DETAILS

project: VIVID

location: ZEELAND, MI

C.A.R. OR P.O NUMBER:

SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			AOS
DESIGNER:			DGL
DRAFTER:			MDS
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GL205120
DISCIPLINE:			CIVIL
SYSTEM NAME:			-
SYSTEM NUMBER:			-
EQUIPMENT TYPE:			-
LEGACY NUMBER:			
LEGACY DATE:			
LEGACY VENDOR:			
CAD FILE NAME:			
HARD COPY:			
DEPARTMENT:			

SHEET #: ZSCSIT-1473-0610-DETAILS

DRAWING NUMBER: C610

SHEET: 25 OF 36

Received: 04/06/26
City of Zeeland, MI

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MC-3500 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

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IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE MC-3500 & MC-4500 CHAMBER".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE MC-3500 & MC-4500 CHAMBER".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE MC-3500 & MC-4500 CHAMBER".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH INSTALLATION GUIDE MC-3500 & MC-4500 CHAMBER".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan

NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DETAILS

project: VIVID

location: ZEELAND, MI

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ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

C.A.R. OR P.O NUMBER	
SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL005109
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	
HARD COPY:	
DEPARTMENT:	

SHEET #: ZSCSIT-1473-C611-DETAILS
DRAWING NUMBER: C611
SHEET: 26 OF 36

Received: 04/06/26
City of Zeeland, MI

PROPOSED LAYOUT: NORTH BASIN

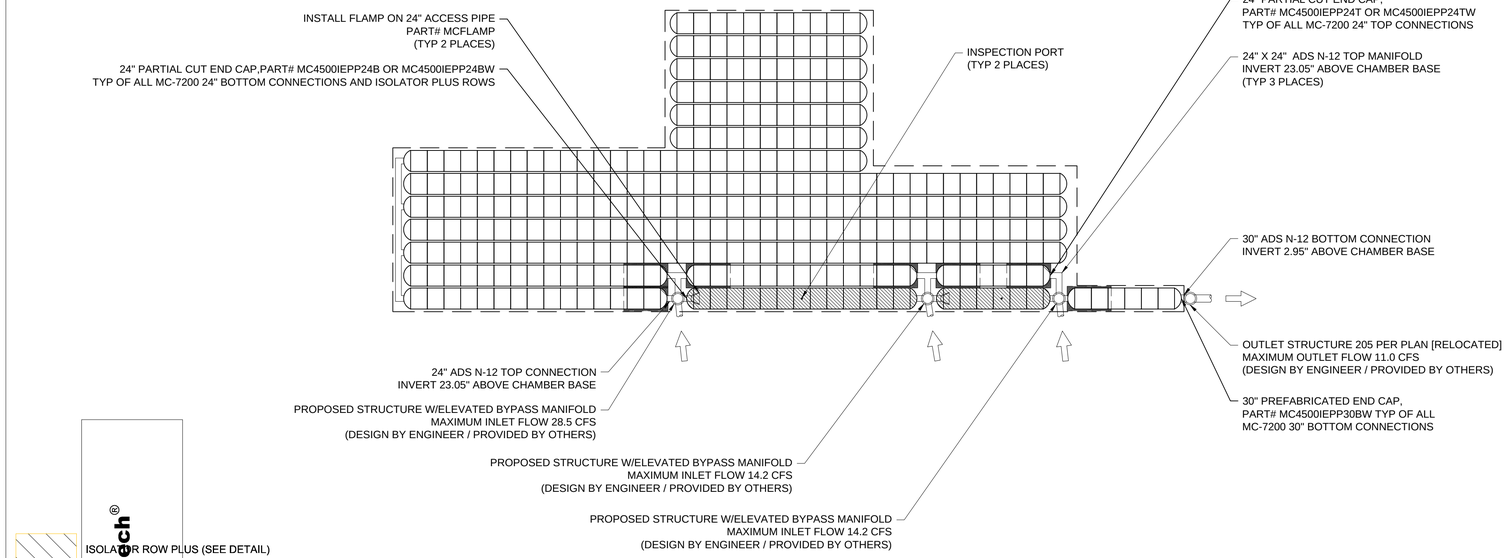
323	STORMTECH MC-7200 CHAMBERS
36	STORMTECH MC-7200 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
94,131	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
21921	SYSTEM AREA (ft²)
865	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS: NORTH BASIN

657.00	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
652.50	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
652.00	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
652.00	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
652.00	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
651.00	TOP OF STONE
650.00	TOP OF MC-7200 CHAMBER
646.92	24" TOP MANIFOLD/CONNECTION INVERT
645.19	24" ISOLATOR ROW PLUS CONNECTION INVERT
645.25	30" BOTTOM MANIFOLD/CONNECTION INVERT
645.00	BOTTOM OF MC-7200 CHAMBER
644.25	BOTTOM OF STONE

NOTES

- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- NOT FOR CONSTRUCTION: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.



ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 17.5' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

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ZEELAND
UNDERGROUND
ZEELAND, MI

DATE: 03/19/26
PROJECT #: SS16508
DRAWN: AVM
CHECKED: JPR

DATE	DWN	CHK

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80"
40"
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Maintenance Representative — mm/dd/yy
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Key Plan

NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DETAILS

project: VIVID

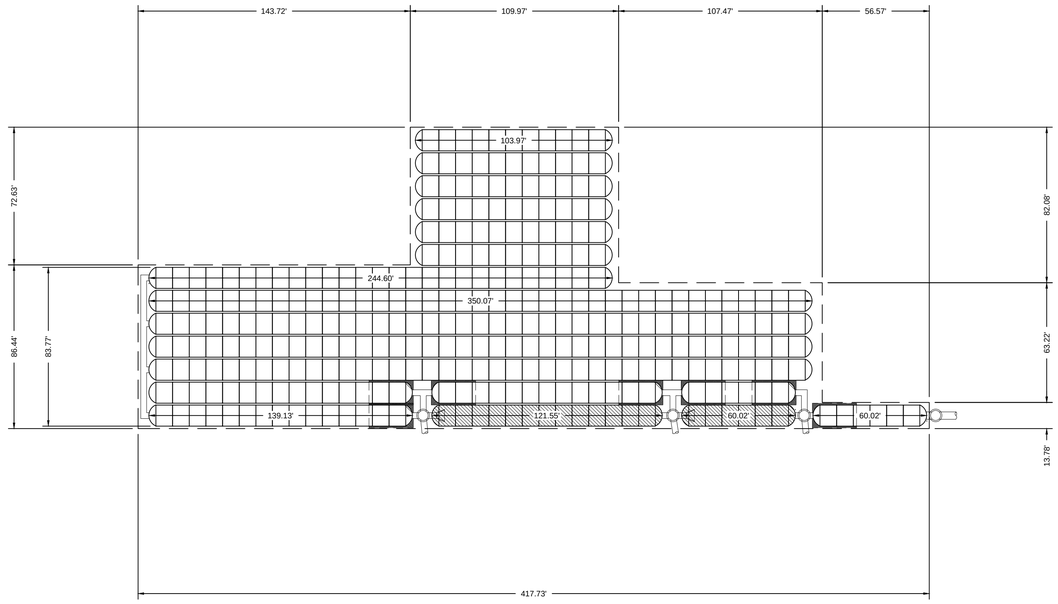
location: ZEELAND, MI

C.A.F. OR P.O. NUMBER:

SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			AOS
DESIGNER:			DGL
DRAFTER:			MDS
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GL205120
DISCIPLINE:			CIVIL
SYSTEM NAME:			-
SYSTEM NUMBER:			-
EQUIPMENT TYPE:			-
LEGACY NUMBER:			
LEGACY DATE:			
LEGACY VENDOR:			
CAD FILE NAME:			
HARD COPY:			
DEPARTMENT:			

SHEET #: ZSCSIT-1473-C612-DETAILS
DRAWING NUMBER: C612
SHEET: 27 OF 36

Received: 04/06/26
City of Zeeland, MI



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ZEELAND UNDERGROUND ZEELAND, MI	
DATE:	03/19/26
PROJECT #:	S516508
DRAWN:	AVM
CHECKED:	JPR

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SHEET 3 OF 11

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Drafter / Designer — mm/dd/yy

Project Manager — mm/dd/yy

Quality Representative — mm/dd/yy

Operation Manager — mm/dd/yy

Maintenance Representative — mm/dd/yy

Customer Representative / Document Manager — mm/dd/yy

Key Plan

NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DETAILS

project: VIVID

location: ZEELAND, MI

C.A.R. OR P.O.NUMBER

SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			AOS
DESIGNER:			DGL
DRAFTER:			MDS
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GL025100
DISCIPLINE:			CIVIL
SYSTEM NAME:			-
SYSTEM NUMBER:			-
EQUIPMENT TYPE:			-
LEGACY NUMBER:			
LEGACY DATE:			
LEGACY VENDOR:			
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SHEET #: ZSCSIT-1473-C613-DETAILS

DRAWING NUMBER C613

SHEET: 28 OF 36

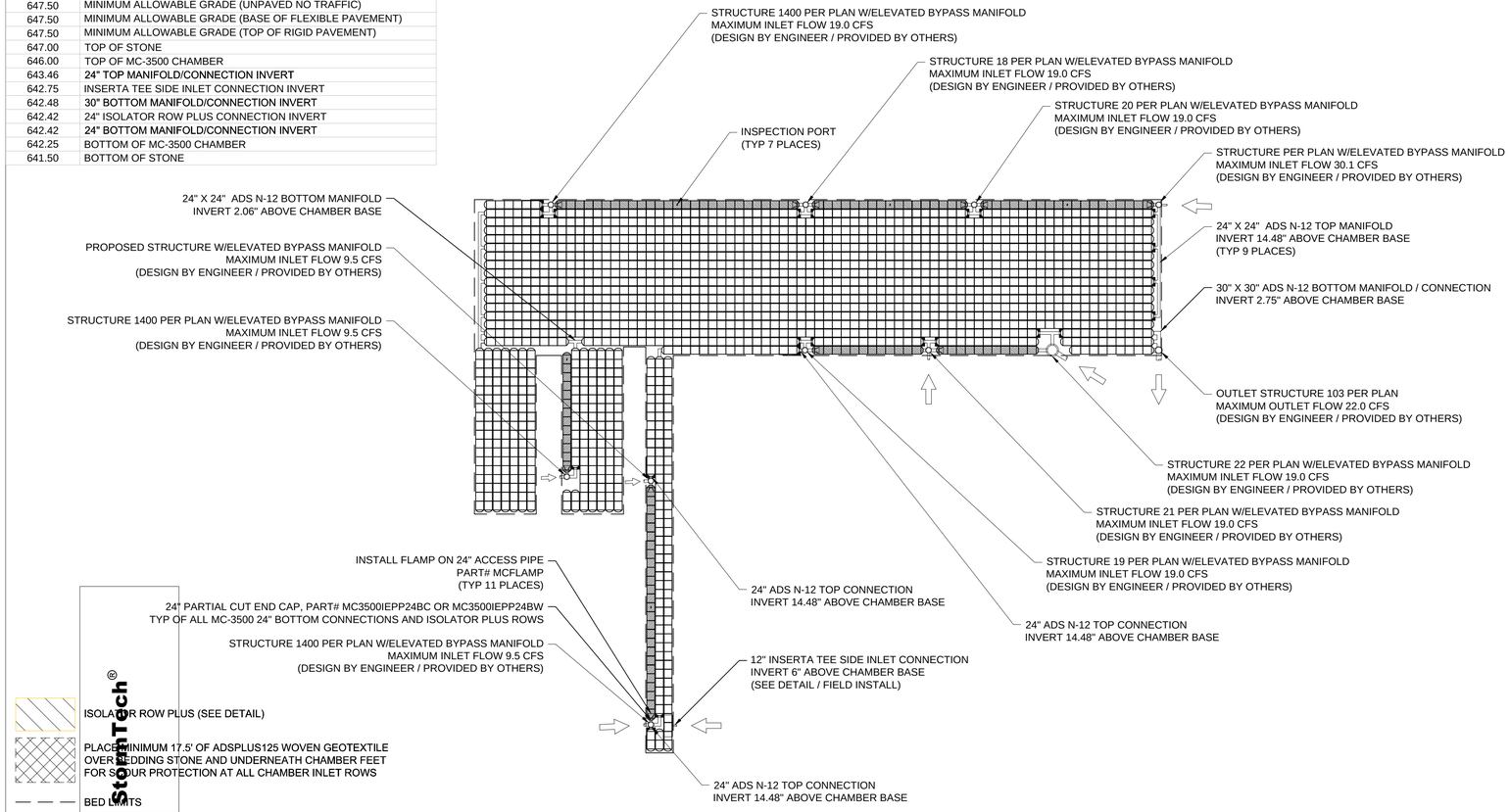
Received: 04/06/26
City of Zeeland, MI

PROPOSED LAYOUT: WEST BASIN

1,671	STORMTECH MC-3500 CHAMBERS
108	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
308,808	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
89821	SYSTEM AREA (ft²)
2532	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS: WEST BASIN

654.00	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
648.00	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
647.50	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
647.50	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
647.50	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
647.00	TOP OF STONE
646.00	TOP OF MC-3500 CHAMBER
643.46	**24" TOP MANIFOLD/CONNECTION INVERT**
642.75	INSERTA TEE SIDE INLET CONNECTION INVERT
642.48	**30" BOTTOM MANIFOLD/CONNECTION INVERT**
642.42	24" ISOLATOR ROW PLUS CONNECTION INVERT
642.42	**24" BOTTOM MANIFOLD/CONNECTION INVERT**
642.25	BOTTOM OF MC-3500 CHAMBER
641.50	BOTTOM OF STONE



ZEELAND
UNDERGROUND
ZEELAND, MI

DATE: 03/19/26 | DRAWN: AVM | CHECKED: JPR
PROJECT #: 55316508

DATE	DWN	CHK

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ADS
160'
80'
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Key Plan

NORTH

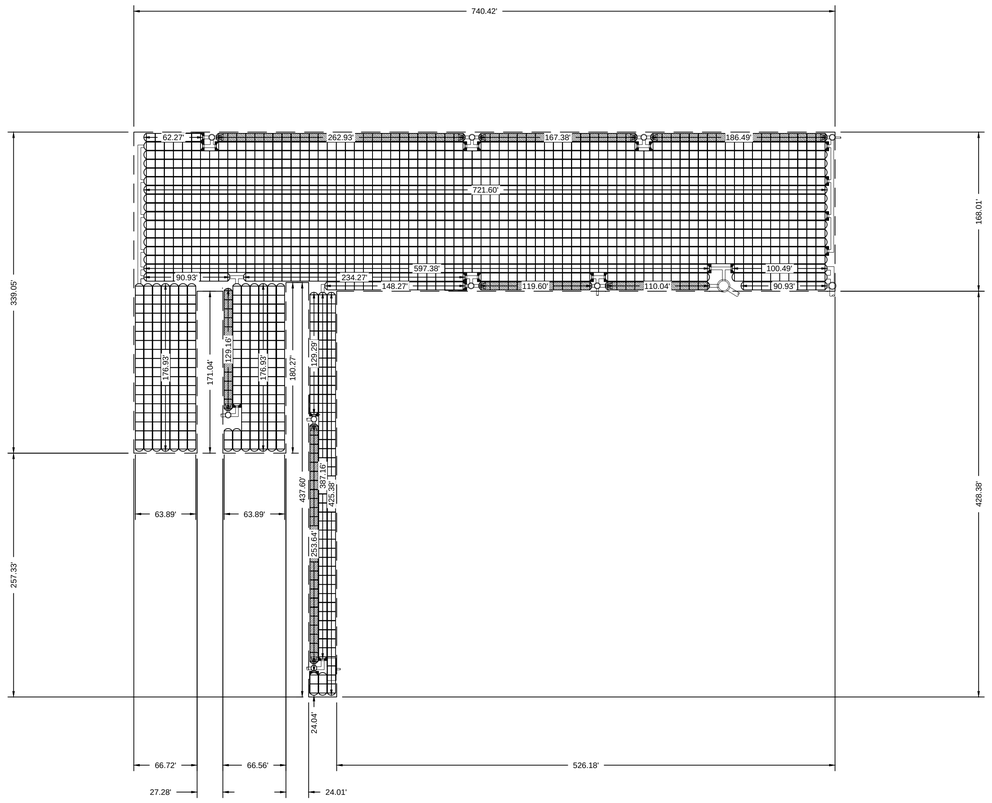
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Mead Johnson NUTRITION

title: DETAILS
project: VIVID
location: ZEELAND, MI

C.A.R. OR P.O NUMBER	
SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	ADS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL025120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	SHEET # ZSCSIT-1473-C614-DETAILS
LEGACY DATE:	
LEGACY VENDOR:	DRAWING NUMBER C614
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City of Zeeland, MI



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ZEELAND
UNDERGROUND
ZEELAND, MI

DATE: 03/19/26
PROJECT #: S516508
DRAWN: AVM
CHECKED: JPR

DATE	DWN	CHK

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0' 80' 160'

5 SHEET OF 11

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DATE:

ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

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Approved by

Drafter / Designer mm/dd/yy

Project Manager mm/dd/yy

Quality Representative mm/dd/yy

Operation Manager mm/dd/yy

Maintenance Representative mm/dd/yy

Customer Representative / Document Manager mm/dd/yy

Key Plan

NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DETAILS

project: VIVID

location: ZEELAND, MI

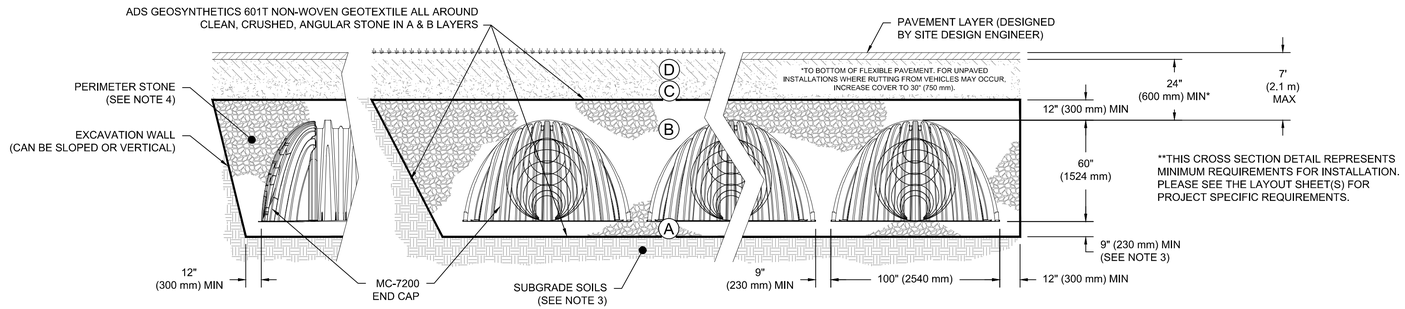
C.A.R. OR P.O NUMBER	
SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL025120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	SHEET #: ZSCSIT-1473-C615-DETAILS
LEGACY DATE:	
LEGACY VENDOR:	DRAWING NUMBER: C615
CAD FILE NAME:	
HARD COPY:	SHEET: 30 OF 36
DEPARTMENT:	

Received: 04/06/26
City of Zeeland, MI

ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



**THIS CROSS SECTION DETAIL REPRESENTS MINIMUM REQUIREMENTS FOR INSTALLATION. PLEASE SEE THE LAYOUT SHEET(S) FOR PROJECT SPECIFIC REQUIREMENTS.

NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101
2. MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3" (75 mm).
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

ZEELAND
UNDERGROUND
ZEELAND, MI

DATE: 03/19/26 | DRAWN: AVM | CHECKED: JPR | PROJECT #: SS16508

DATE	DWN	CHK

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SHEET 6 OF 11

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Project Manager — mm/dd/yy
Quality Representative — mm/dd/yy
Operation Manager — mm/dd/yy
Maintenance Representative — mm/dd/yy
Customer Representative / Document Manager — mm/dd/yy

Key Plan

NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DETAILS
project: VIVID
location: ZEELAND, MI

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DATE:

ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

C.A.R. OR P.O NUMBER:

SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			AOS
DESIGNER:			DGL
DRAFTER:			MDS
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GL205120
DISCIPLINE:			CIVIL
SYSTEM NAME:			-
SYSTEM NUMBER:			-
EQUIPMENT TYPE:			-
LEGACY NUMBER:			
LEGACY DATE:			
LEGACY VENDOR:			
CAD FILE NAME:			
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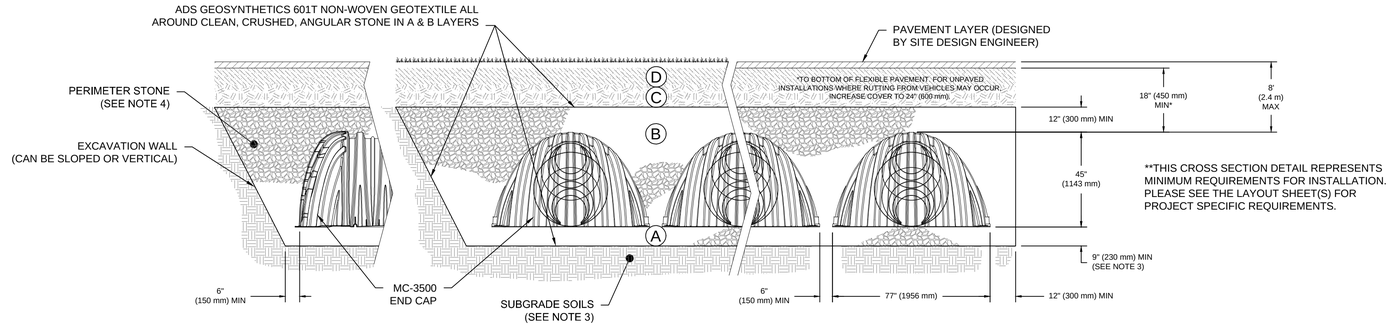
SHEET #: ZSCSIT-1473-0616-DETAILS
DRAWING NUMBER: C616
SHEET: 31 OF 36

Received: 04/06/26
City of Zeeland, MI

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 18" (450 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
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2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
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5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



**THIS CROSS SECTION DETAIL REPRESENTS MINIMUM REQUIREMENTS FOR INSTALLATION. PLEASE SEE THE LAYOUT SHEET(S) FOR PROJECT SPECIFIC REQUIREMENTS.

NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
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ZEELAND UNDERGROUND
ZEELAND, MI

DATE: 03/19/26
PROJECT #: SS16508
DRAWN: AVM
CHECKED: JPR

DATE	DWN	CHK

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SHEET 7 OF 11

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Drafter / Designer — mm/dd/yy
Project Manager — mm/dd/yy
Quality Representative — mm/dd/yy
Operation Manager — mm/dd/yy
Maintenance Representative — mm/dd/yy
Customer Representative / Document Manager — mm/dd/yy

Key Plan

NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DETAILS

project: VIVID

location: ZEELAND, MI

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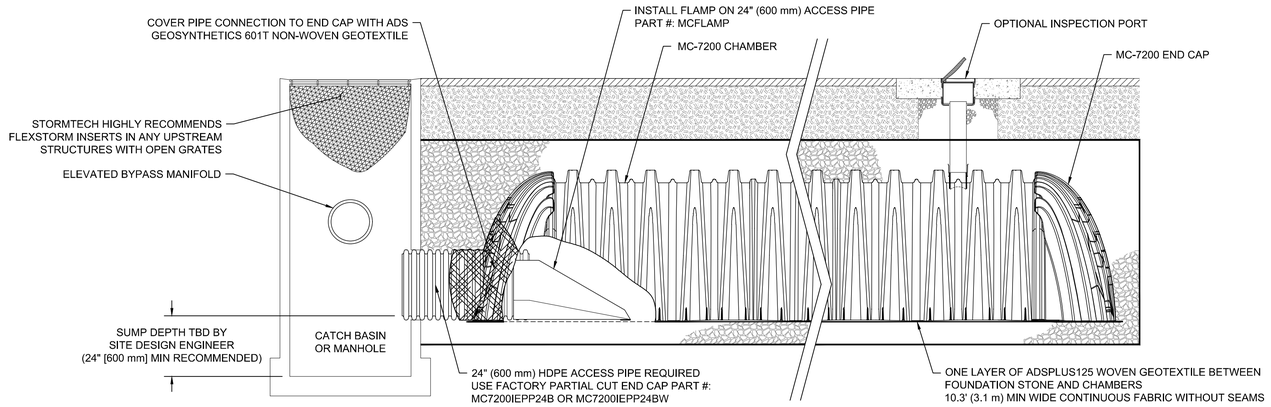
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ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

C.A.R. OR P.O. NUMBER:	
SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	ADS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL025120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	
HARD COPY*:	
DEPARTMENT:	

SHEET #: ZSCSIT-1473-0617-DETAILS
DRAWING NUMBER: C617
SHEET: 32 OF 36

Received: 04/06/26
City of Zeeland, MI



MC-7200 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

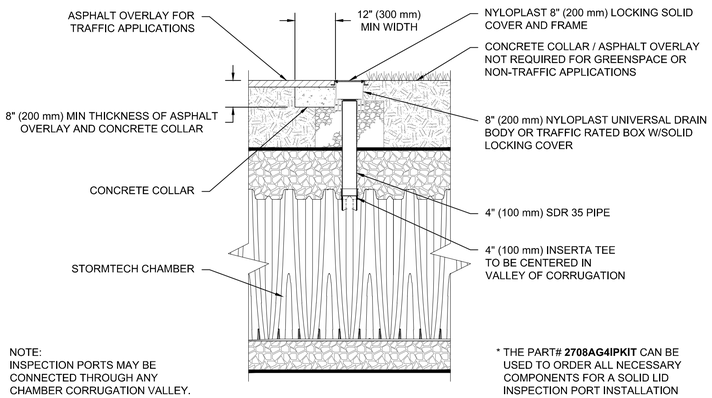
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

* THE PART# **2708AG4IPKIT** CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FOR A SOLID LID INSPECTION PORT INSTALLATION

4" (100 mm) PVC INSPECTION PORT DETAIL (MC SERIES CHAMBER)
NTS

ZEELAND
UNDERGROUND
ZEELAND, MI

DATE: 03/19/26 | DRAWN: AVM | CHECKED: JPR
PROJECT #: S516508

DATE	DWN	CHK

StormTech® Chamber System

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Approved by

Drafter / Designer	mm/dd/yy
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Key Plan

NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DETAILS

project: VIVID

location: ZEELAND, MI

C.A.R. OR P.O NUMBER:

SCALE: AS NOTED	DATE: 02-APR-2026
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LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	
HARD COPY:	
DEPARTMENT:	

SHEET #: ZSCSIT-1473-0618-DETAILS
DRAWING NUMBER: C618
SHEET: 33 OF 36

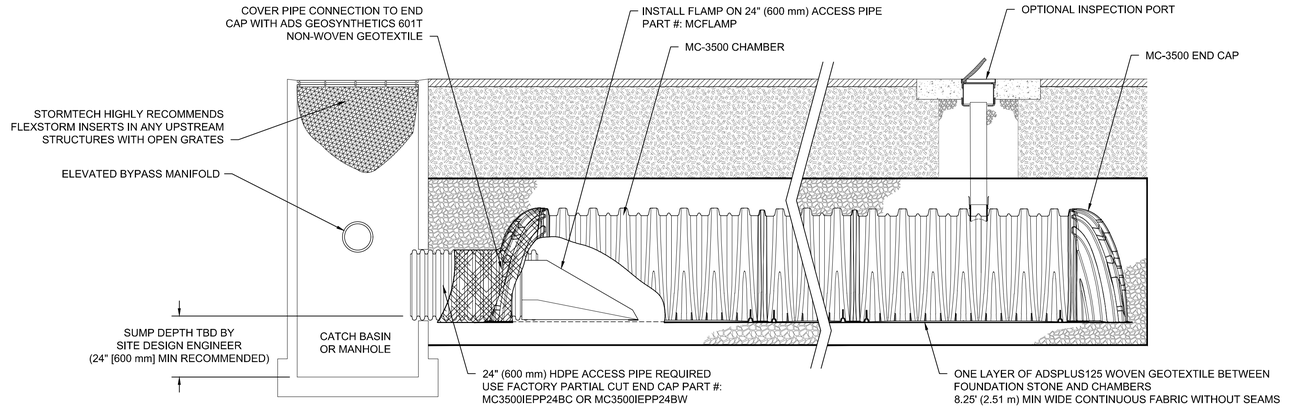
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DATE:

ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

Received: 04/06/26
City of Zeeland, MI



MC-3500 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

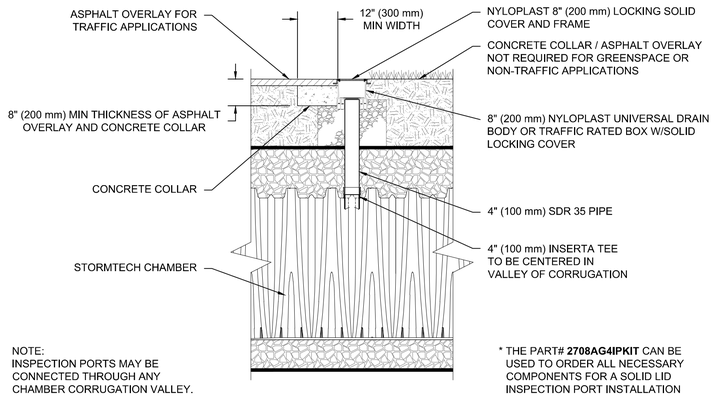
STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.

2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

* THE PART# **2708AG4IPKIT** CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FOR A SOLID LID INSPECTION PORT INSTALLATION

4" (100 mm) PVC INSPECTION PORT DETAIL
(MC SERIES CHAMBER)
NTS

ZEELAND
UNDERGROUND
ZEELAND, MI

DATE: 03/19/26 | DRAWN: AVM | PROJECT #: S5116508 | CHECKED: JPR

DATE	DWN	CHK

StormTech® Chamber System

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SHEET 9 OF 11

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Drafter / Designer — mm/dd/yy
Project Manager — mm/dd/yy
Quality Representative — mm/dd/yy
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Maintenance Representative — mm/dd/yy
Customer Representative / Document Manager — mm/dd/yy

Key Plan

NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DETAILS

project: VIVID

location: ZEELAND, MI

PIERCE ENGINEERS
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VK CIVIL Vriesman & Korhorn
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DATE:

ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	MCC	A

C.A.R. OR P.O NUMBER:

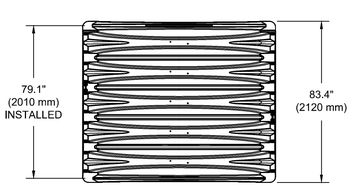
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PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL025120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
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DEPARTMENT:	

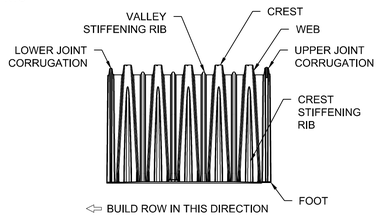
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DRAWING NUMBER: C619
SHEET: 34 OF 36

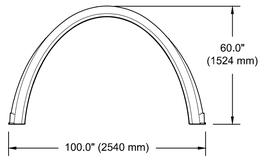
Received: 04/06/26
City of Zeeland, MI

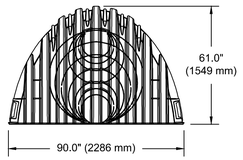
MC-7200 TECHNICAL SPECIFICATION

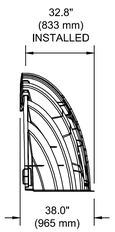
NTS











NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	100.0" X 60.0" X 79.1"	(2540 mm X 1524 mm X 2010 mm)
CHAMBER STORAGE	175.9 CUBIC FEET	(4.98 m³)
MINIMUM INSTALLED STORAGE*	267.3 CUBIC FEET	(7.56 m³)
WEIGHT (NOMINAL)	205 lbs.	(92.9 kg)

NOMINAL END CAP SPECIFICATIONS

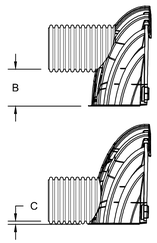
SIZE (W X H X INSTALLED LENGTH)	90.0" X 61.0" X 32.8"	(2286 mm X 1549 mm X 833 mm)
END CAP STORAGE	39.5 CUBIC FEET	(1.12 m³)
MINIMUM INSTALLED STORAGE*	115.3 CUBIC FEET	(3.26 m³)
WEIGHT (NOMINAL)	90 lbs.	(40.8 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC4500IEPP06T	6" (150 mm)	42.54" (1081 mm)	---
MC4500IEPP06B		---	0.86" (22 mm)
MC4500IEPP08T	8" (200 mm)	40.50" (1029 mm)	---
MC4500IEPP08B		---	1.01" (26 mm)
MC4500IEPP10T	10" (250 mm)	38.37" (975 mm)	---
MC4500IEPP10B		---	1.33" (34 mm)
MC4500IEPP12T	12" (300 mm)	35.69" (907 mm)	---
MC4500IEPP12B		---	1.55" (39 mm)
MC4500IEPP15T	15" (375 mm)	32.72" (831 mm)	---
MC4500IEPP15B		---	1.70" (43 mm)
MC4500IEPP18T	18" (450 mm)	29.36" (746 mm)	---
MC4500IEPP18TW			
MC4500IEPP18B		---	1.97" (50 mm)
MC4500IEPP18BW			
MC4500IEPP24T	24" (600 mm)	23.05" (585 mm)	---
MC4500IEPP24TW			
MC4500IEPP24B		---	2.26" (57 mm)
MC4500IEPP24BW			
MC4500IEPP30BW	30" (750 mm)	---	2.95" (75 mm)
MC4500IEPP36BW	36" (900 mm)	---	3.25" (83 mm)
MC4500IEPP42BW	42" (1050 mm)	---	3.55" (90 mm)

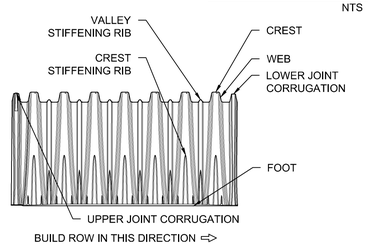
NOTE: ALL DIMENSIONS ARE NOMINAL

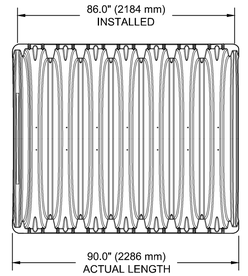


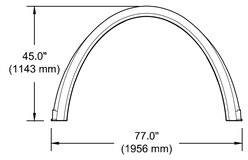
CUSTOM PREFABRICATED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-7200 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

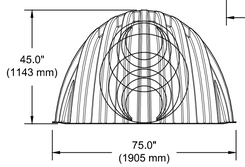
MC-3500 TECHNICAL SPECIFICATION

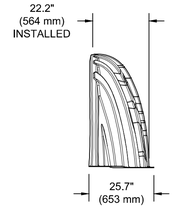
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NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

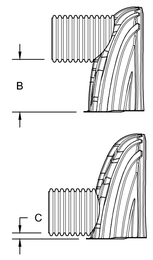
SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m³)
WEIGHT	49 lbs.	(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" (152 mm) STONE BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL



CUSTOM PARTIAL CUT INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

ZEELAND
UNDERGROUND
ZEELAND, MI

DATE: 03/19/26 | DRAWN: AVM | CHECKED: JPR
PROJECT #: SS16508

DATE	DWN	CHK

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SHEET 10 OF 11

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Key Plan

NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

Mead Johnson NUTRITION

title: DETAILS

project: VIVID

location: ZEELAND, MI

C.A.F. OR P.O NUMBER:

SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GL205120
DISCIPLINE:	CIVIL
SYSTEM NAME:	-
SYSTEM NUMBER:	-
EQUIPMENT TYPE:	-
LEGACY NUMBER:	
LEGACY DATE:	
LEGACY VENDOR:	
CAD FILE NAME:	
HARD COPY:	
DEPARTMENT:	
SHEET:	35 OF 36

SHEET # ZSCGSIT-1473-C620-DETAILS

DRAWING NUMBER C620

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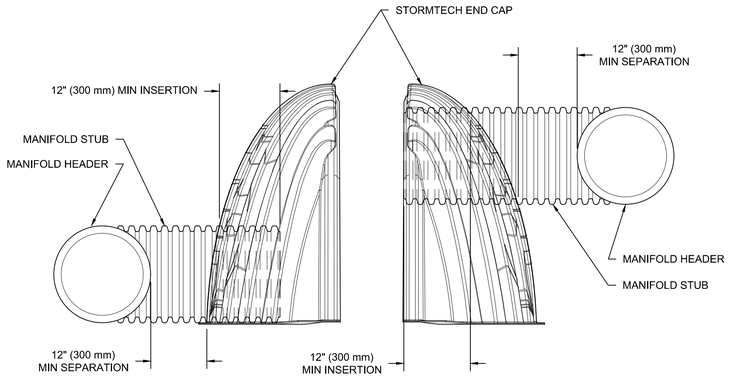
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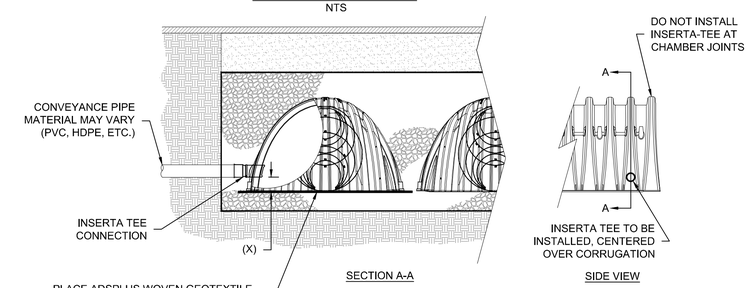
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City of Zeeland, MI

MC-SERIES END CAP INSERTION DETAIL
NTS



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

INSERTA TEE DETAIL
NTS



CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	150 mm (6")	100 mm (4")
SC-800	250 mm (10")	100 mm (4")
DC-780	250 mm (10")	100 mm (4")
MC-3500	300 mm (12")	150 mm (6")
MC-4500	300 mm (12")	200 mm (8")
MC-7200	300 mm (12")	200 mm (8")
INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON		

NOTES:
- ΠΑΡΤ ΝΥΜΒΕΡΣ ΩΙΑΑ ςΑΡΨ ΒΑΣΕΑ ΟΝ ΙΝΑΕΤ ΠΙΠΕ ΜΑΤΕΡΙΑΑΣ. ΧΟΝΤΑΧΤ ΣΤΟΡΜΤΕΧΗ ΦΟΡ ΜΟΡΕ ΙΝΦΟΡΜΑΤΙΟΝ.
- ΧΟΝΤΑΧΤ ΑΑΣ ΕΝΓΙΝΕΕΡΙΝΓ ΣΕΡςΙΧΕΣ ΙΦ ΙΝΣΕΡΤΑ ΤΕΕ ΙΝΑΕΤ ΜΥΣΤ ΒΕ ΡΑΙΣΕΑ ΑΣ ΝΟΤ ΑΑΑ ΙΝςΕΡΤΣ ΑΡΕ ΠΟΣΣΙΒΑΕ.

Inserta Tee®
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ADS

ZEELAND
UNDERGROUND
ZEELAND, MI

DATE: 03/19/26
PROJECT #: S516508
DRAWN: AVM
CHECKED: JPR

DATE	DWN	CHK

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DATE:

ENGINEER	ARCHITECT	REV BY	REV
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SHEET 11 OF 11

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Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan

NORTH

rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	MDS

MeadJohnson NUTRITION

title: DETAILS

project: VIVID

location: ZEELAND, MI

C.A.R. OR P.O NUMBER

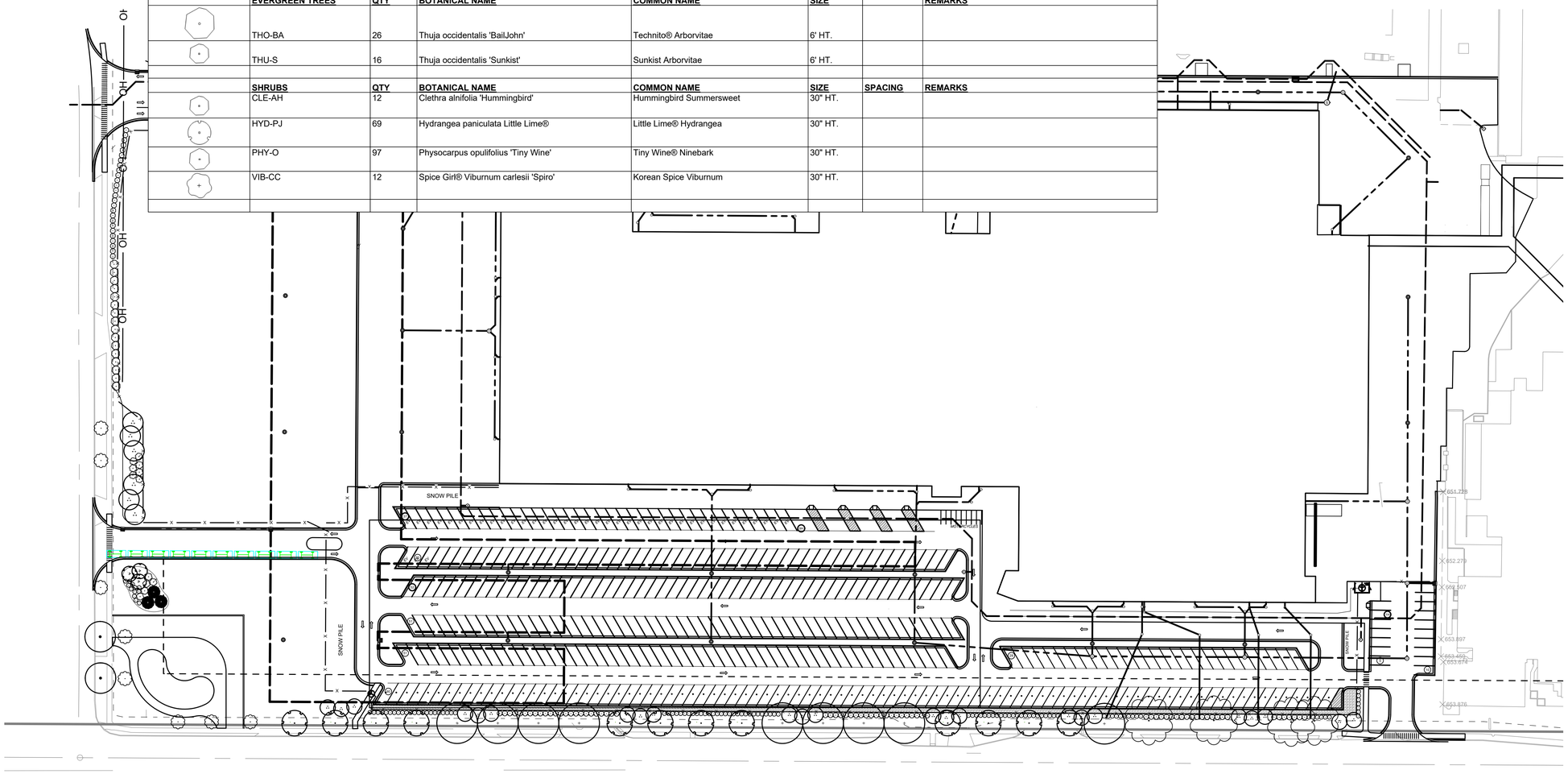
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DATE:	02-APR-2026
PROJECT MANAGER:	AOS
DESIGNER:	DGL
DRAFTER:	MDS
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VENDOR PROJECT NUMBER:	GL025120
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SHEET #: ZSCSIT-1473-0821-DETAILS
DRAWING NUMBER: C621
SHEET: 35 OF 36

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PLANT SCHEDULE

PLANT LEGEND	TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE		REMARKS
	ACE-F	9	Acer x freemanii 'Marmo'	Marmo Freeman Maple	2.5" CAL.		
	AME-G	6	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	10' HT.		MATCHING SPECIMEN
	CER-CA	5	Cercis canadensis 'Ace of Hearts'	Eastern Redbud 'Ace of Hearts'	10' HT.		MATCHING SPECIMEN
	CRA-P	3	Crataegus phaenopyrum	Washington Hawthorn	2" CAL.		
	GIN-BA	12	Ginkgo biloba 'Autumn Gold'	Autumn Gold Maidenhair Tree	2.5" CAL.		
	TIL-A	2	Tilia americana 'Legend'	American Linden, Legend Linden	2.5" CAL.		
	EVERGREEN TREES	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**		**REMARKS**
	THO-BA	26	Thuja occidentalis 'BailJohn'	Technito® Arborvitae	6' HT.		
	THU-S	16	Thuja occidentalis 'Sunkist'	Sunkist Arborvitae	6' HT.		
	SHRUBS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**SPACING**	**REMARKS**
	CLE-AH	12	Clethra alnifolia 'Hummingbird'	Hummingbird Summersweet	30" HT.		
	HYD-PJ	69	Hydrangea paniculata Little Lime®	Little Lime® Hydrangea	30" HT.		
	PHY-O	97	Physocarpus opulifolius 'Tiny Wine'	Tiny Wine® Ninebark	30" HT.		
	VIB-CC	12	Spice Girl® Viburnum carlesii 'Spiro'	Korean Spice Viburnum	30" HT.		



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SCALE: 1" = 60'
0' 30' 60' 90' 120'

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ENGINEER	ARCHITECT	REV BY	REV
DGL	SRF	TJ	A

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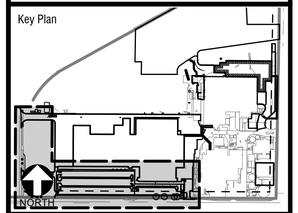
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Approved by

Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	CME

Mead Johnson NUTRITION

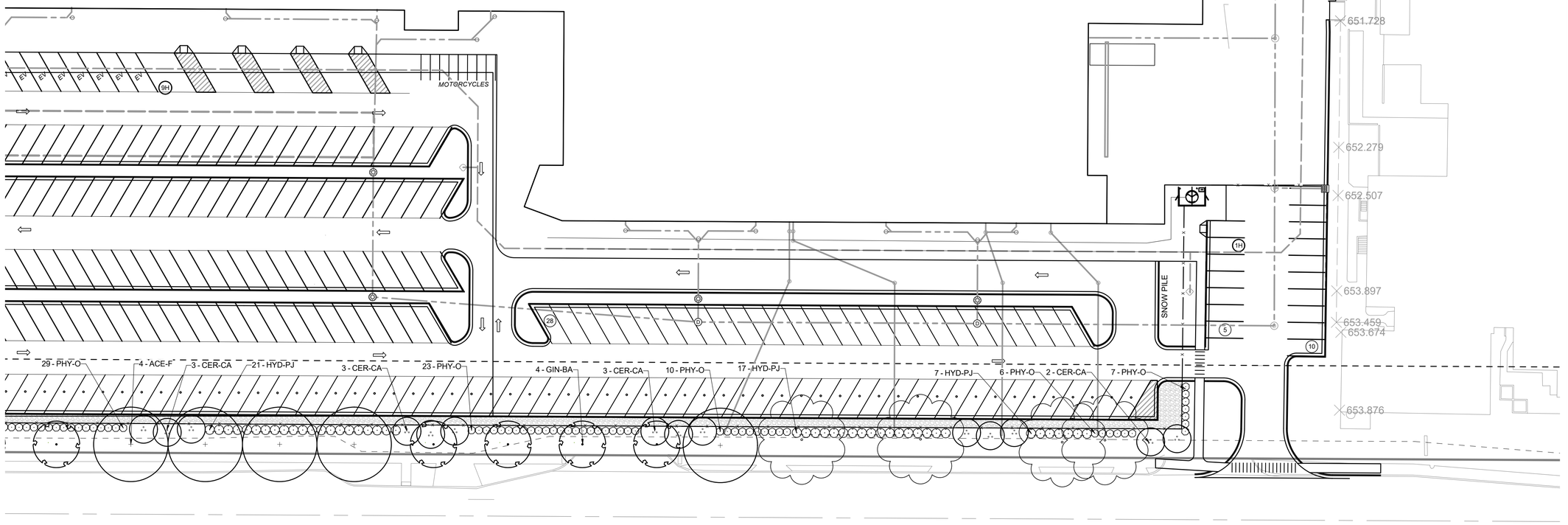
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project: VIVID

location: ZEELAND, MI

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DESIGNER:	CME
DRAFTER:	CME
VENDOR NAME:	ARKOS DESIGN
VENDOR PROJECT NUMBER:	GLD25120
DISCIPLINE:	LANDSCAPE
SYSTEM NAME:	
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LEGACY NUMBER:	SHEET #:
LEGACY DATE:	ZSCST-1473-L100-LANDSCAPE PLAN
LEGACY VENDOR:	
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DEPARTMENT:	SHEET: 1of 3

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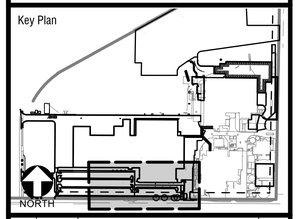
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Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
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Customer Representative / Document Manager	mm/dd/yy

Key Plan



rev	date	description	by
A	02APR2026	SITE PLAN APPROVAL	CME

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0' 15' 30' 45' 60'

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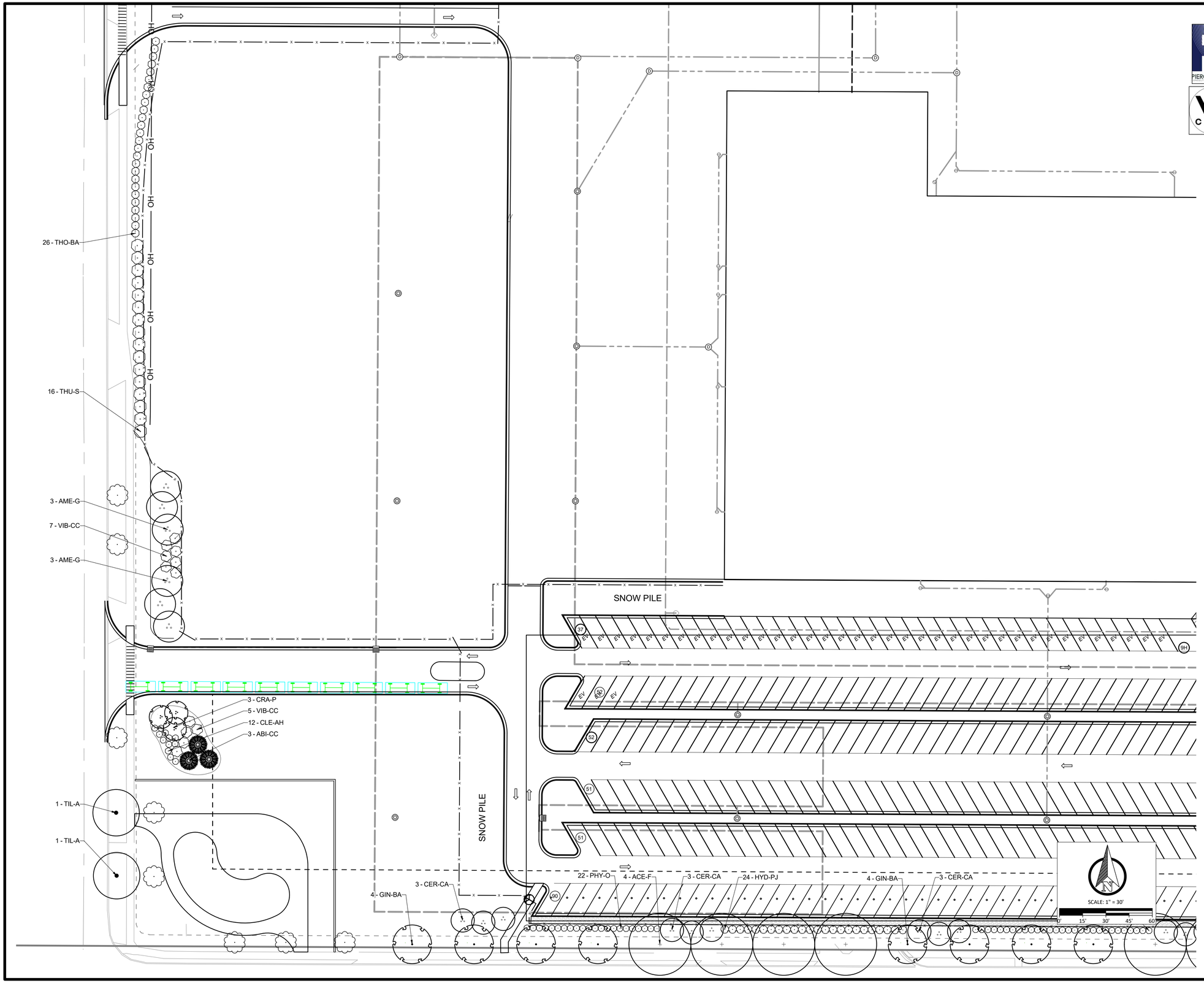
project: VIVID

location: ZEELAND, MI

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DRAFTER:	CME
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VENDOR PROJECT NUMBER:	GLD25120
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SYSTEM NAME:	
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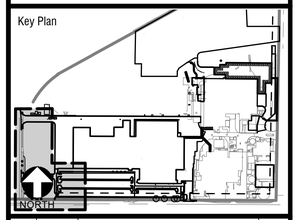
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Project Manager	mm/dd/yy
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Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
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Key Plan



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A	02APR2026	SITE PLAN APPROVAL	CME

Mead Johnson NUTRITION

title: LANDSCAPE PLAN - CARLTON & MAIN

project: VIVID

location: ZEELAND, MI

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C.A.R OR P.O NUMBER	
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PROJECT MANAGER:	CME
DESIGNER:	CME
DRAFTER:	CME
VENDOR NAME:	ARKOS DESIGN
VENDOR PROJECT NUMBER:	GLD25120
DISCIPLINE:	LANDSCAPE
SYSTEM NAME:	
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LEGACY VENDOR:	
CAD FILE NAME:	DRAWING NUMBER
HARD COPY:	L102
DEPARTMENT:	SHEET: 3 of 3

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-SITE LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	FIXTURE DESCRIPTION	MANUFACTURER AND CATALOG NO.	MOUNTING TYPE	CEILING TYPE	VOLTS	WATTS	LAMP DESCRIPTION	INITIAL DELIVERED LUMENS	LENGTH	WIDTH	DEPTH	APP. ALT. MANUFACTURER	FIXTURE NOTES
R1-25	EXTERIOR AREA LIGHT, SINGLE ARM, POLE MOUNTED, DIE-CAST SQUARE HOUSING, ACRYLIC LENS, BLACK POWDER COAT FINISH, 25' ROUND STEEL POLE, TYPE IV DISTRIBUTION, INTEGRAL PHOTOCELL	LITHONIA DSX1 LED P5 27K 80CRI T4M HS DF 480 R	POLE	-	480 V	142	WHITE LED, 2700K, 80 CRI	17169	2' - 9"	1' - 3"	0' - 8"	HUBBELL EMCO	1
R1-30	EXTERIOR AREA LIGHT, SINGLE ARM, POLE MOUNTED, DIE-CAST SQUARE HOUSING, ACRYLIC LENS, BLACK POWDER COAT FINISH, 30' SQUARE STEEL POLE, TYPE IV DISTRIBUTION, INTEGRAL PHOTOCELL	LITHONIA DSX1 LED P5 27K 80CRI T4M HS DF 480 R	POLE	-	480 V	142	WHITE LED, 2700K, 80 CRI	17169	2' - 9"	1' - 3"	0' - 8"	HUBBELL EMCO	1
V1	LED CANOPY LIGHT, DIE-CAST ALUMINUM, TYPE V DISTRIBUTION PATTERN, CLEAR ACRYLIC LENS, IP66 RATED	LITHONIA DSXSC LED 20C 700 30K T5W MVOLT\	SURFACE	-	277 V	46	WHITE LED, 3000K, 80 CRI	5068	1' - 6"	0' - 9"	0' - 4"	HUBBELL EMCO	1
W1	BUILDING MOUNTED WALL PACK WITH DIE-CAST ALUMINUM TRAPEZOID STYLE HOUSING FINISHED BLACK, CUT-OFF DISTRIBUTION, ACRYLIC LENS	LITHONIA WDGE3 LED P3 30K 80CRI R4 MVOLT SRM	WALL	-	277 V	18	WHITE LED, 4000K, 80 CRI	10000	0' - 9"	1' - 6"	0' - 8"	GARDCO HUBBELL	1, 2

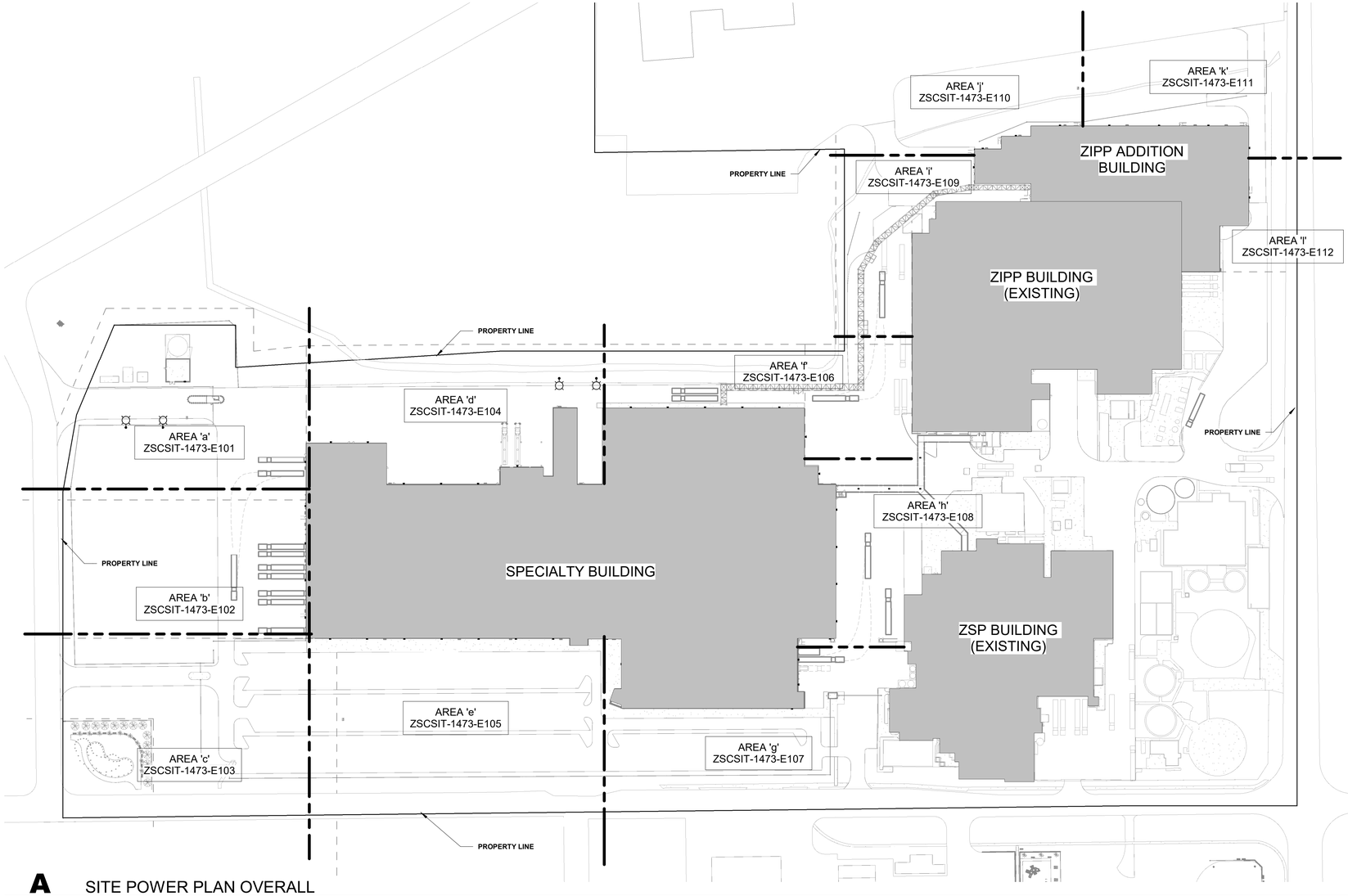
SITE LIGHTING

LIGHTING NOMENCLATURE:
A=UPPERCASE LETTER INDICATES FIXTURE TYPE

A — BUILDING MOUNTED WALL PACK

A — POLE WITH STANCHION MTD LUMINAIRES - LAMP POSITIONS AS INDICATED

A — UNDER CANOPY LIGHT



A SITE POWER PLAN OVERALL

ZSCSIT-1473-E100 SCALE: 1" = 100'-0"

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SCALE
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0' 25' 50' 100' 200' 300'

02-APR-2026

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	SRF	CED	A

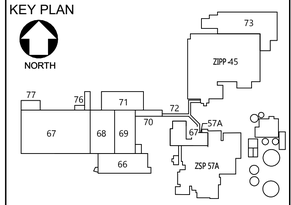
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Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

KEY PLAN



REV	DATE	DESCRIPTION	BY
A	02-APR-2026	SITE PLAN APPROVAL	CED

MeadJohnson NUTRITION

Title: ELECTRICAL SITE PHOTOMETRICS PLAN - OVERALL

Project: ZSC VIVID

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

C.A.R. OR P.O.NUMBER
CAR_NUMBER

SCALE: AS NOTED	DATE: 02-APR-2026
PROJECT MANAGER:	
DESIGNER:	DLH
DRAFTER:	DLH
VENDOR NAME:	INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:	GLD25120
DISCIPLINE:	
SYSTEM NAME:	
SYSTEM NUMBER:	
EQUIPMENT TYPE:	
LEGACY NUMBER:	
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LEGACY VENDOR:	
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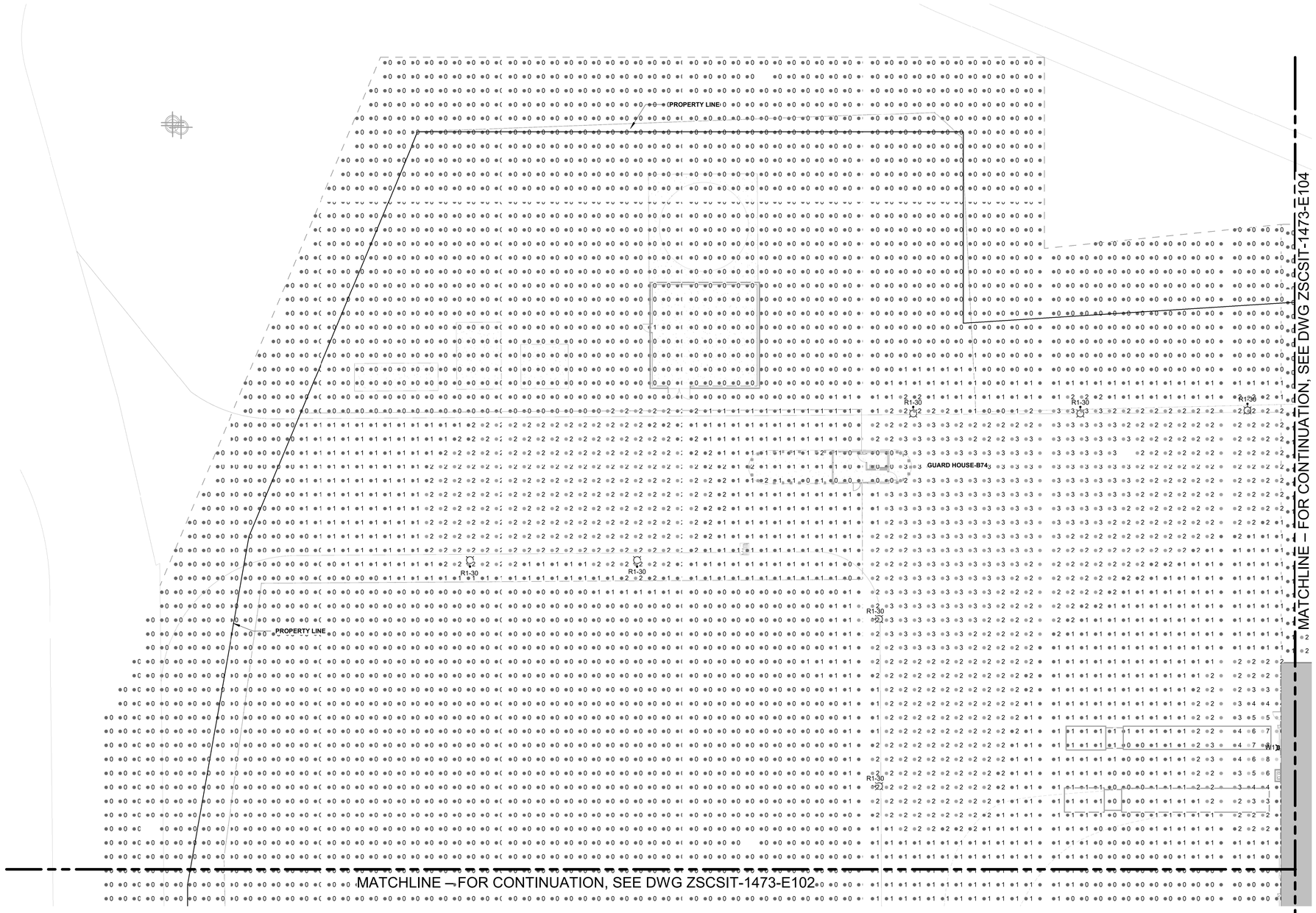
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A ELECTRICAL SITE PHOTOMETRICS PLAN - AREA A

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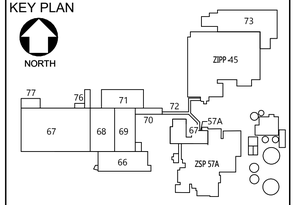
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Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

KEY PLAN



REV	DATE	DESCRIPTION	BY
A	02-APR-2026	SITE PLAN APPROVAL	CED

MeadJohnson NUTRITION

Title: ELECTRICAL SITE PHOTOMETRICS PLAN - AREA A

Project: ZSC VIVID

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

C.A.R. OR P.O NUMBER
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SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			
DESIGNER:			DLH
DRAFTER:			DLH
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GLDS120
DISCIPLINE:			
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SYSTEM NUMBER:			
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LEGACY NUMBER:			
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SCALE

1" = 20' - 0"
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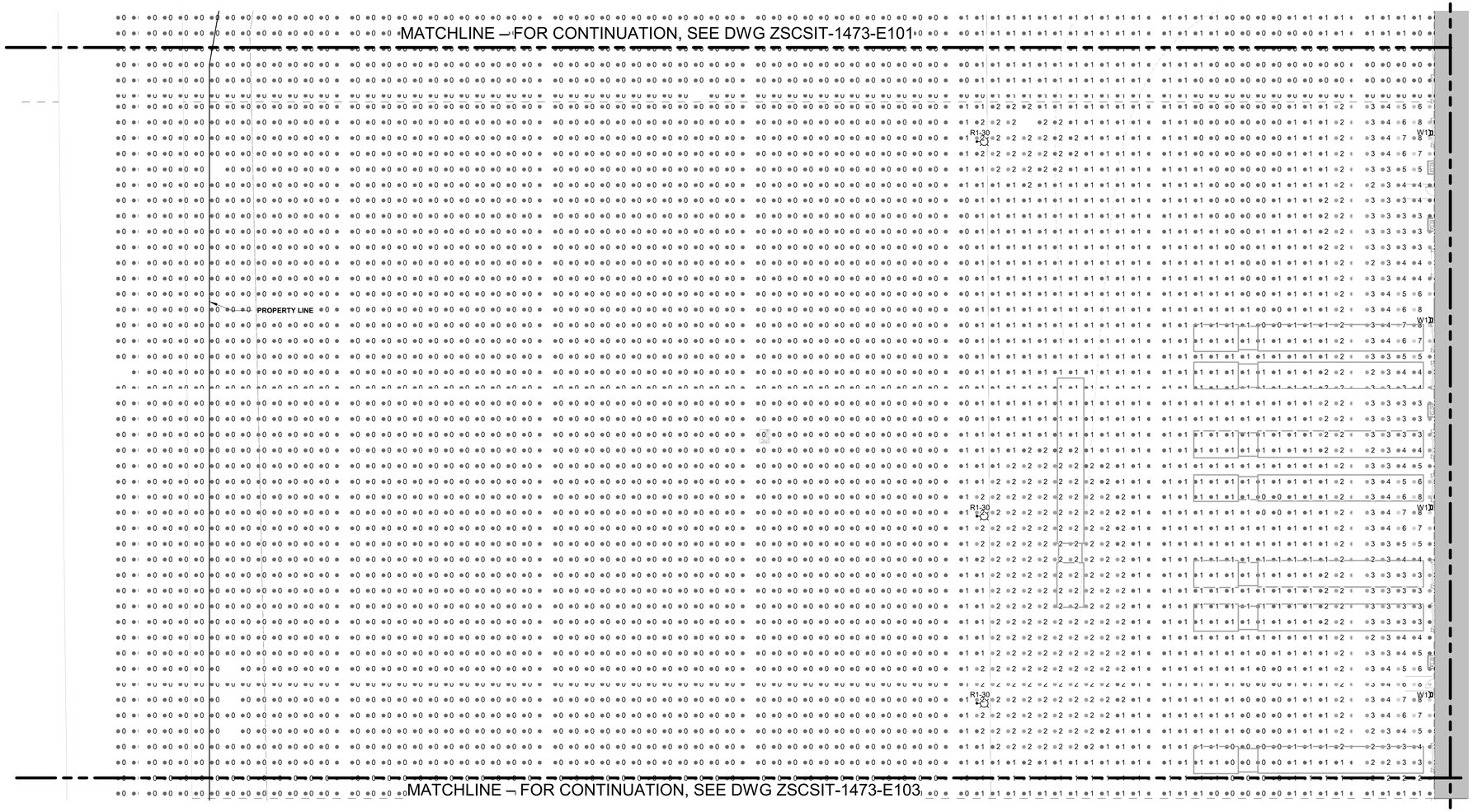
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A ELECTRICAL SITE PHOTOMETRICS PLAN - AREA B

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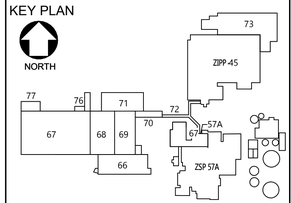
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Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
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Customer Representative / Document Manager	mm/dd/yy

KEY PLAN



REV	DATE	DESCRIPTION	BY
A	02-APR-2026	SITE PLAN APPROVAL	CED

Title: ELECTRICAL SITE PHOTOMETRICS PLAN - AREA B

Project: ZSC VIVID

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

C.A.R. OR P.O.NUMBER
CAR_NUMBER

SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			
DESIGNER:			DLH
DRAFTER:			DLH
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GLD25120
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SCALE
1" = 20' - 0"
0' 10' 20' 30' 40' 60'

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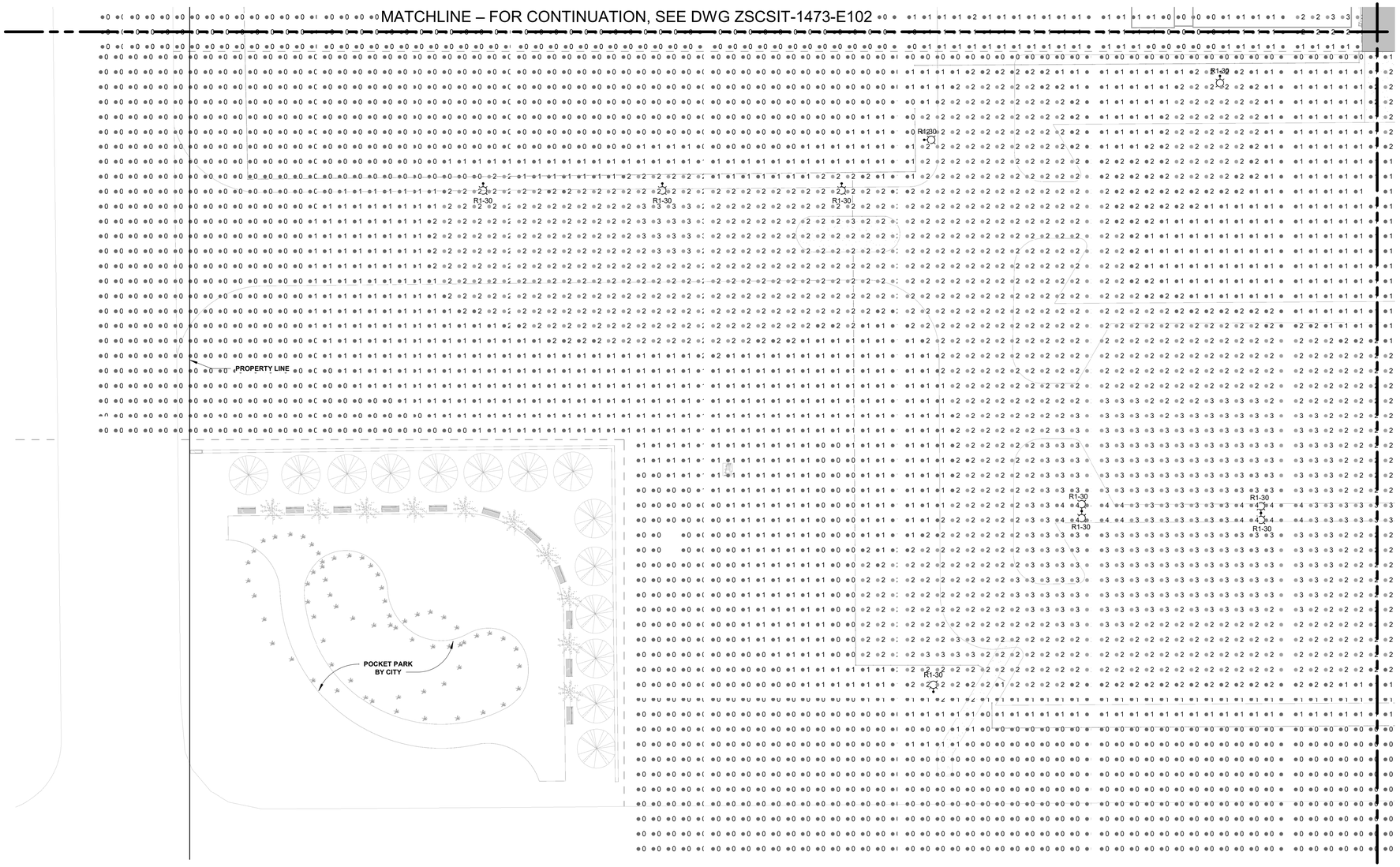
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A ELECTRICAL SITE PHOTOMETRICS PLAN - AREA C

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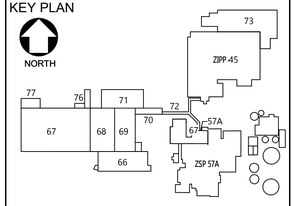
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Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

KEY PLAN



REV	DATE	DESCRIPTION	BY
A	02-APR-2026	SITE PLAN APPROVAL	CED

Title: ELECTRICAL SITE PHOTOMETRICS PLAN - AREA C

Project: ZSC VIVID

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

C.A.R. OR P.O NUMBER
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PROJECT MANAGER:			
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DRAFTER:			DLH
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GLD25100
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0' 10' 20' 30' 40' 60'

02-APR-2026

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DATE:

ENGINEER	ARCHITECT	REV BY	REV
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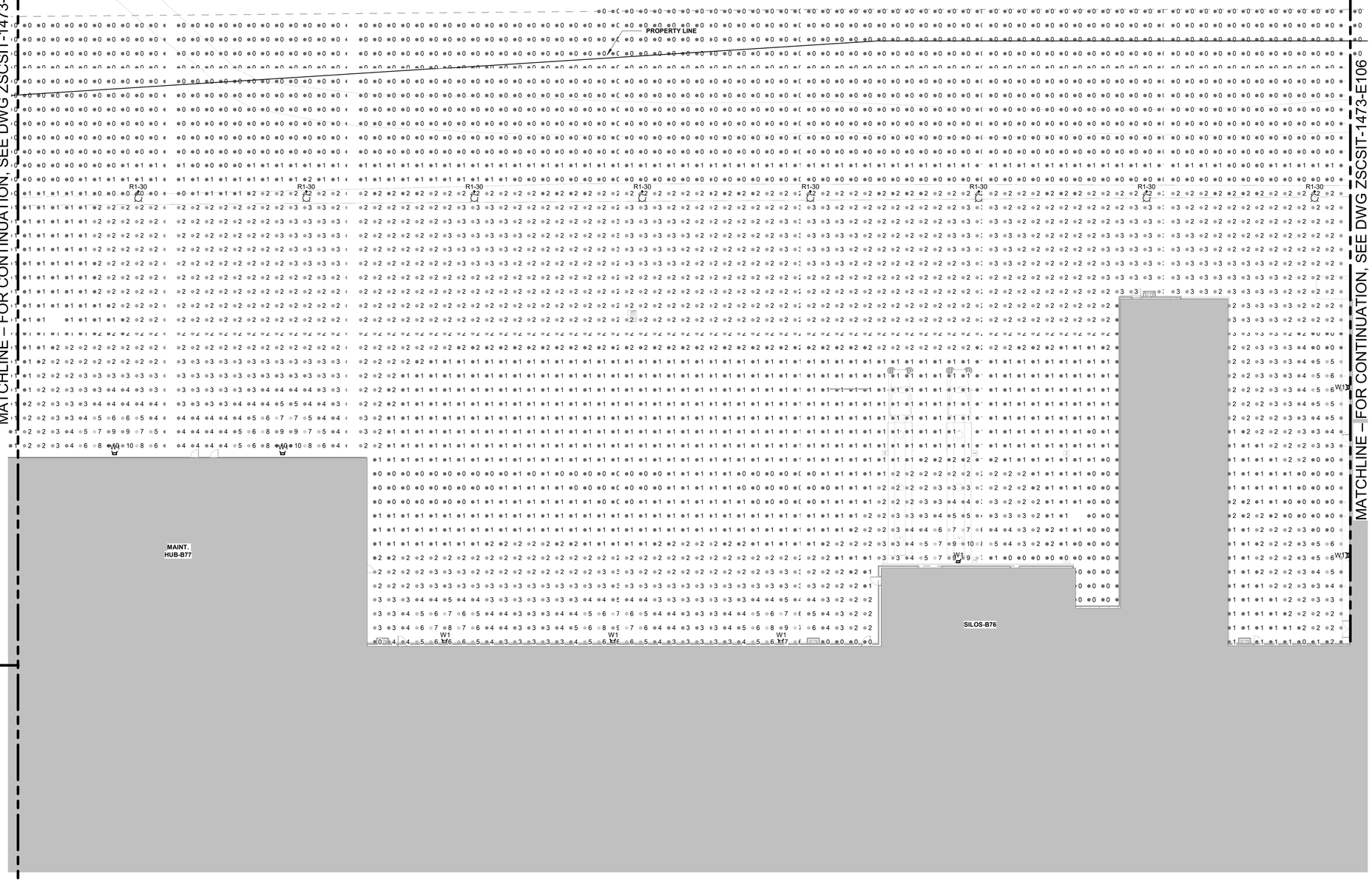
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MATCHLINE – FOR CONTINUATION, SEE DWG ZSCSIT-1473-E101

MATCHLINE – FOR CONTINUATION, SEE DWG ZSCSIT-1473-E106



A ELECTRICAL SITE PHOTOMETRICS PLAN - AREA D

ZSCSIT-1473-E104 SCALE: 1" = 20'-0"

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SCALE
1" = 20' - 0"
0' 10' 20' 30' 40' 60'

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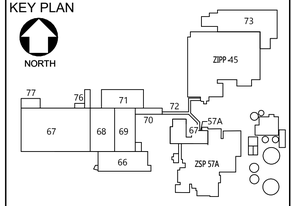
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Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

KEY PLAN



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A	02-APR-2026	SITE PLAN APPROVAL	CED

Title: ELECTRICAL SITE PHOTOMETRICS PLAN - AREA D

Project: ZSC VIVID

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

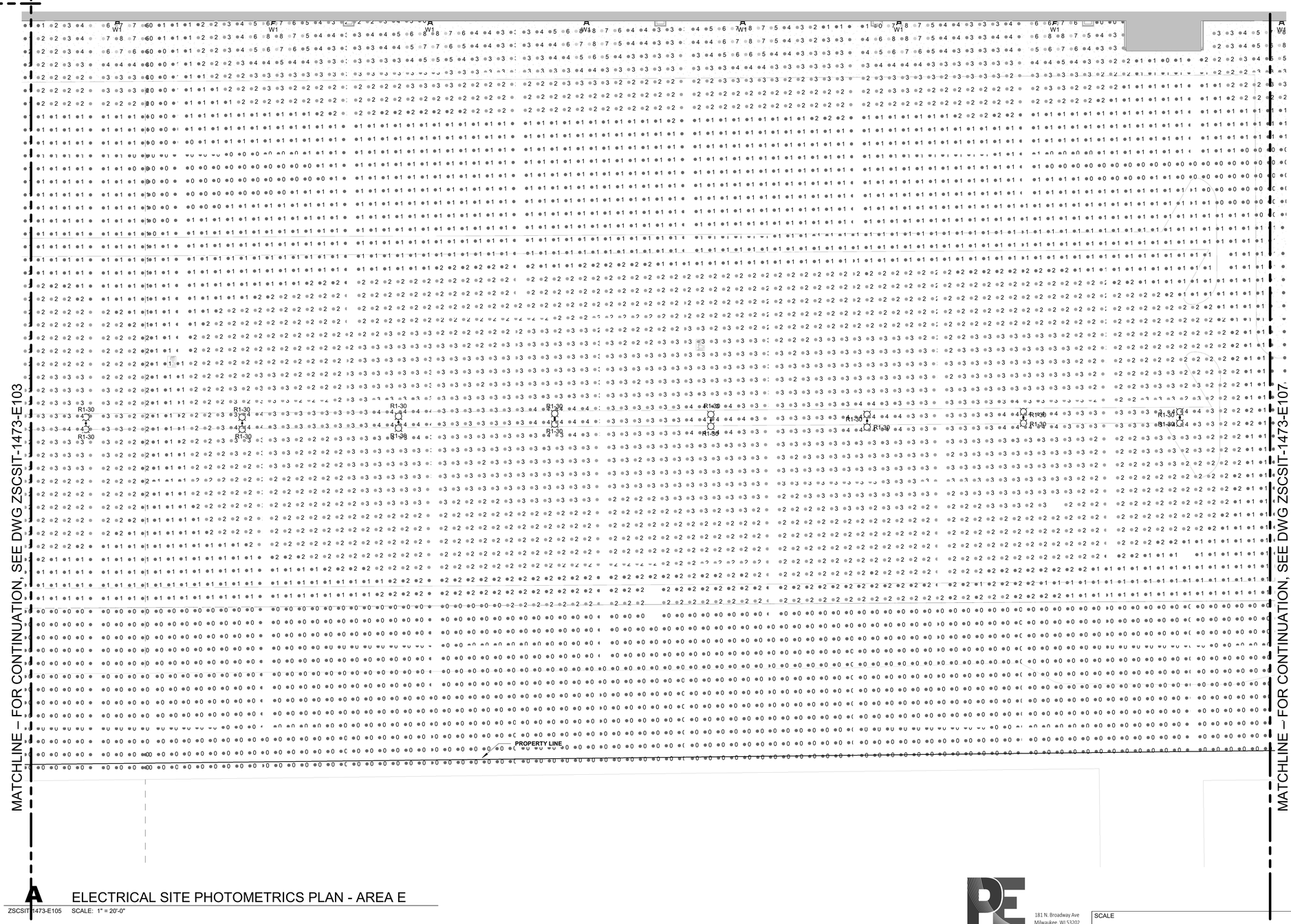
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A ELECTRICAL SITE PHOTOMETRICS PLAN - AREA E

ZSCSIT-1473-E105 SCALE: 1" = 20'-0"

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SCALE
1" = 20' - 0"
0' 10' 20' 30' 40' 60'

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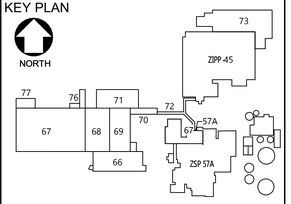
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Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

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A.	02-APR-2026	SITE PLAN APPROVAL	CED

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Title: ELECTRICAL SITE PHOTOMETRICS PLAN - AREA E

Project: ZSC VIVID

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

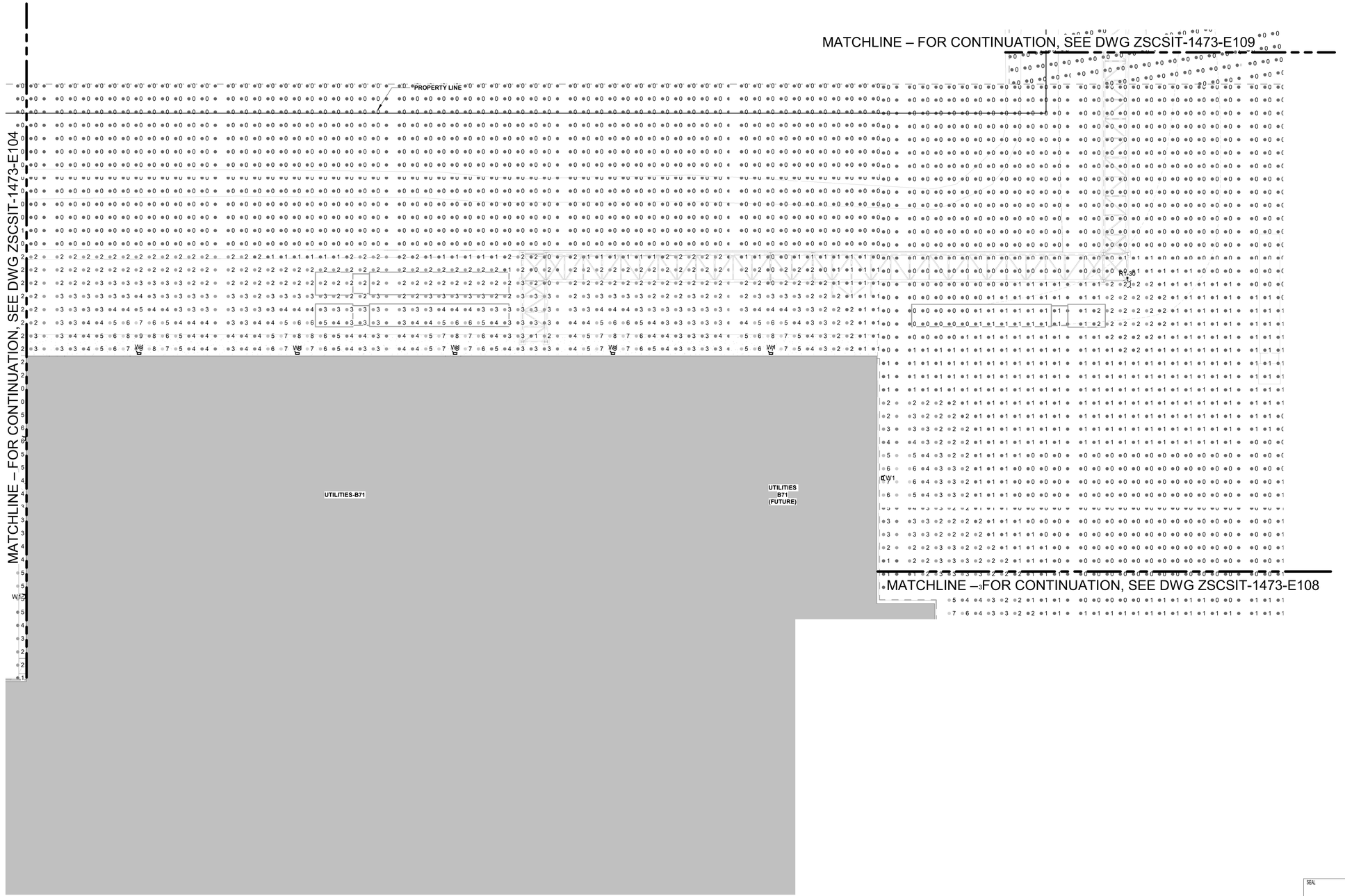
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A ELECTRICAL SITE PHOTOMETRICS PLAN - AREA F

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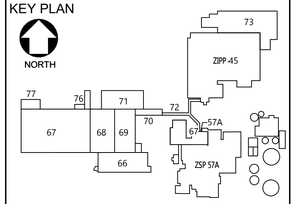
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A	02-APR-2026	SITE PLAN APPROVAL	CED

MeadJohnson NUTRITION

Title: ELECTRICAL SITE PHOTOMETRICS PLAN - AREA F

Project: ZSC VIVID

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
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DESIGNER:			DLH
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VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GLD25120
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SCALE

1" = 20' - 0"

0' 10' 20' 30' 40' 60'

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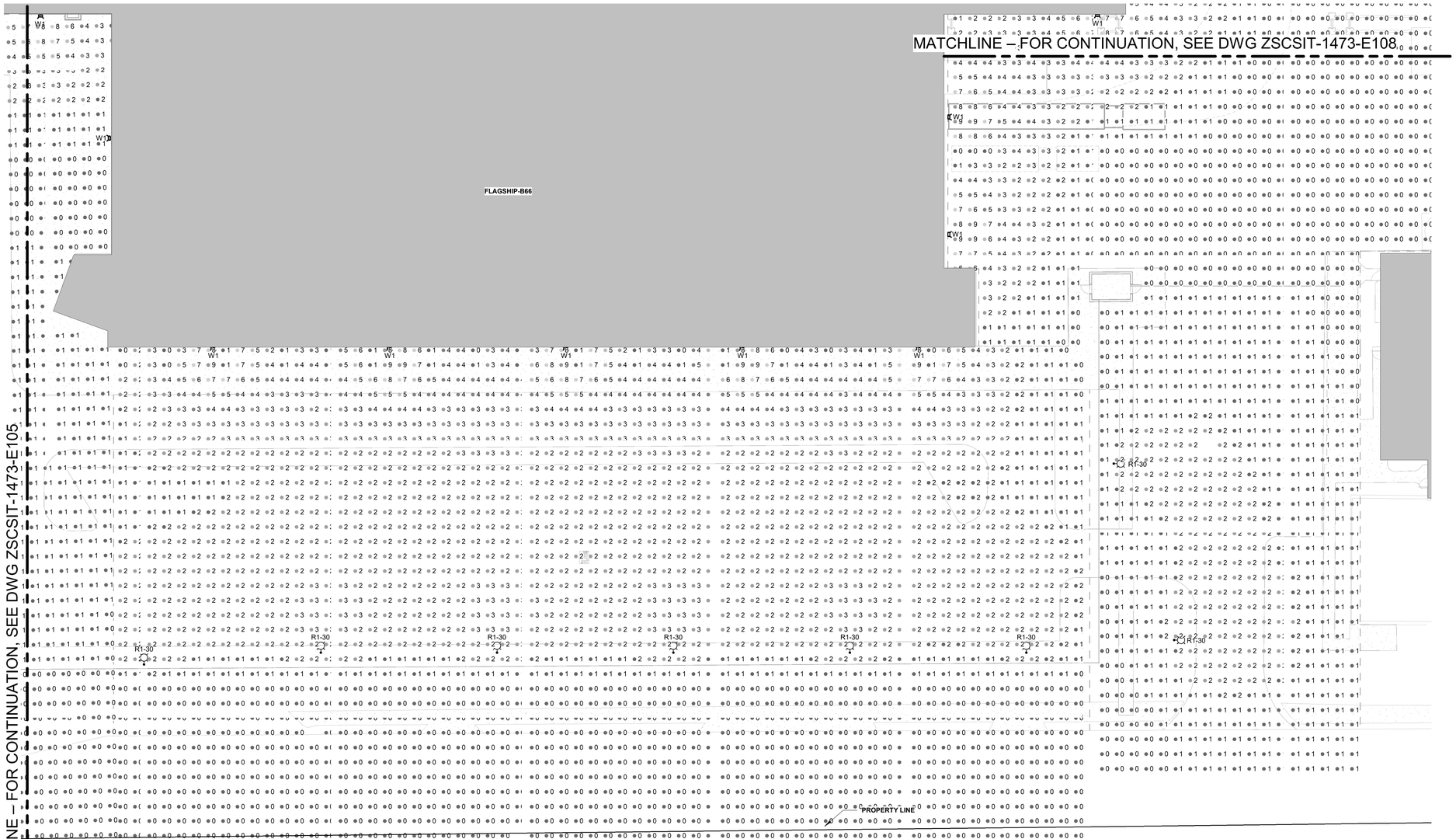
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A ELECTRICAL SITE PHOTOMETRICS PLAN - AREA G

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SCALE
1" = 20' - 0"
0' 10' 20' 30' 40' 60'

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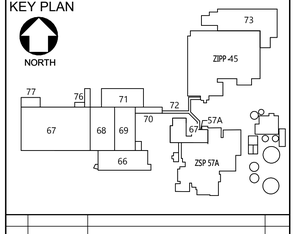
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A	02-APR-2026	SITE PLAN APPROVAL	CED

Title: ELECTRICAL SITE PHOTOMETRICS PLAN - AREA G

Project: ZSC VIVID

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
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DESIGNER:			DLH
DRAFTER:			DLH
VENDOR NAME:			INTEGRATED PROJECT SERVICES
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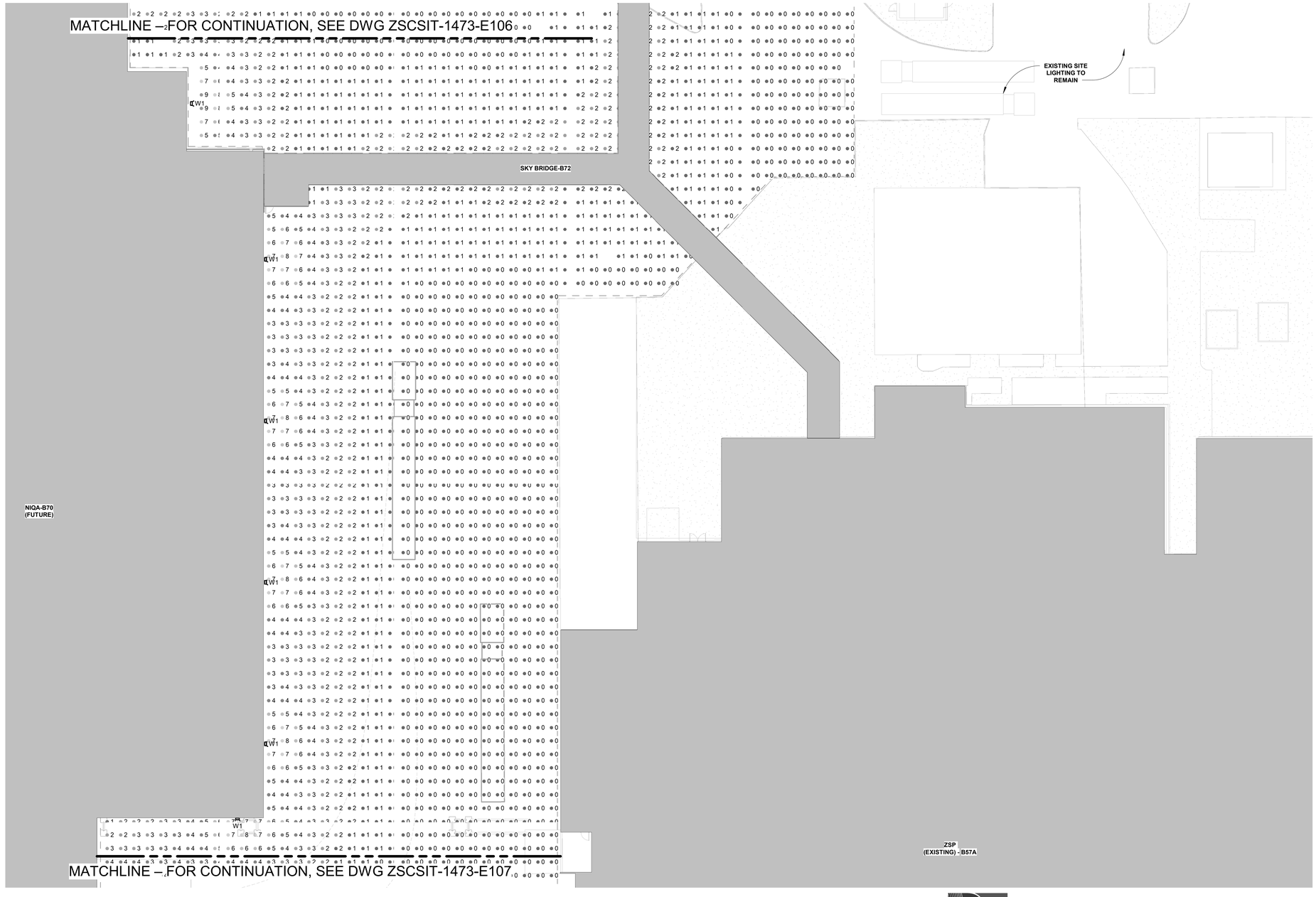
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A ELECTRICAL SITE PHOTOMETRICS PLAN - AREA H

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SCALE
1" = 20' - 0"
0' 10' 20' 30' 40' 60'

02-APR-2026

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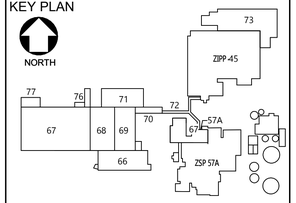
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MeadJohnson NUTRITION

Title: ELECTRICAL SITE PHOTOMETRICS PLAN - AREA H

Project: ZSC VIVID

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

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PROJECT MANAGER:			
DESIGNER:			DLH
DRAFTER:			DLH
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GLD25120
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A ELECTRICAL SITE PHOTOMETRICS PLAN - AREA I

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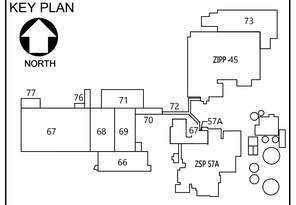
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MeadJohnson NUTRITION

Title: ELECTRICAL SITE PHOTOMETRICS PLAN - AREA I

Project: ZSC VIVID

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
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DESIGNER:			DLH
DRAFTER:			DLH
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SCALE
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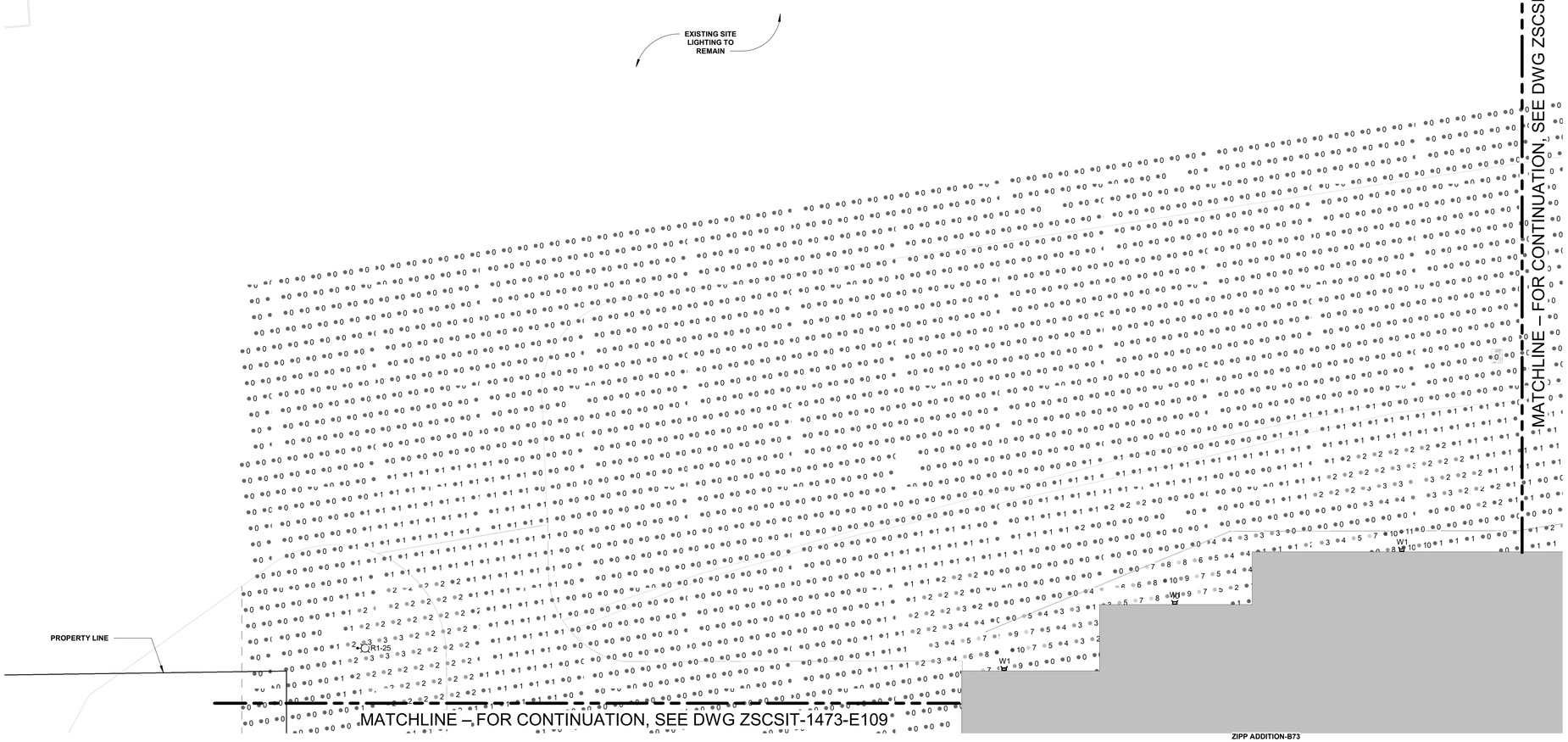
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A ELECTRICAL SITE PHOTOMETRICS PLAN - AREA J

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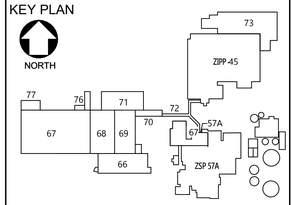
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Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

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Title: ELECTRICAL SITE PHOTOMETRICS PLAN - AREA J

Project: ZSC VIVID

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

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SCALE:	AS NOTED
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DESIGNER:	DLH
DRAFTER:	DLH
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SCALE

1" = 20' - 0"
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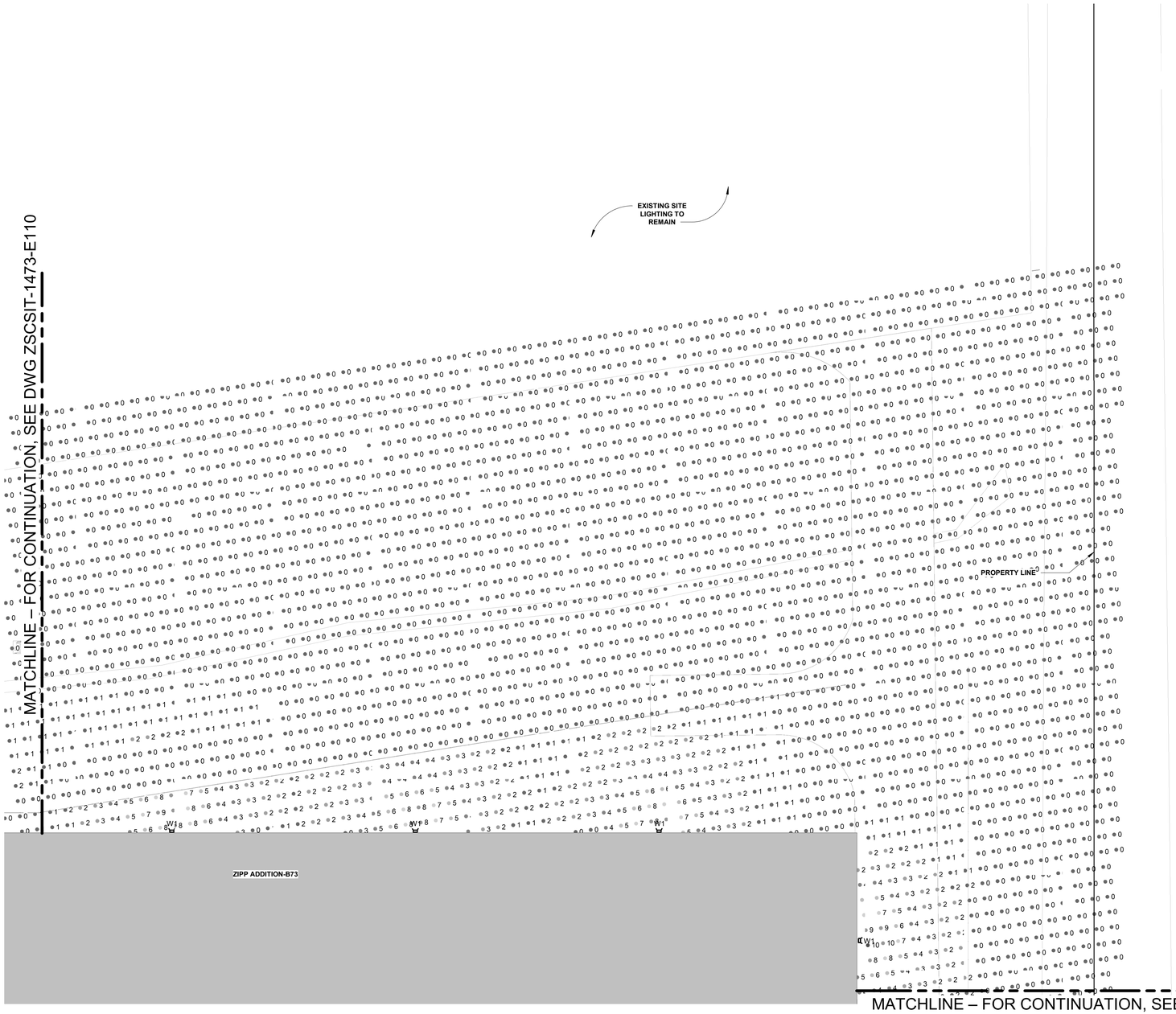
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A ELECTRICAL SITE PHOTOMETRICS PLAN - AREA K

ZSCSIT-1473-E111 SCALE: 1" = 20'-0"

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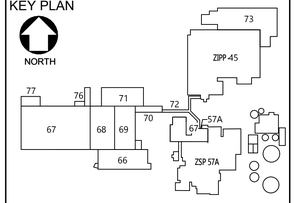
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Operation Manager	mm/dd/yy
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Customer Representative / Document Manager	mm/dd/yy

KEY PLAN



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A	02-APR-2026	SITE PLAN APPROVAL	CED

Title: ELECTRICAL SITE PHOTOMETRICS PLAN - AREA K

Project: ZSC VIVID

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

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1" = 20' - 0"
0' 10' 20' 30' 40' 60'

02-APR-2026

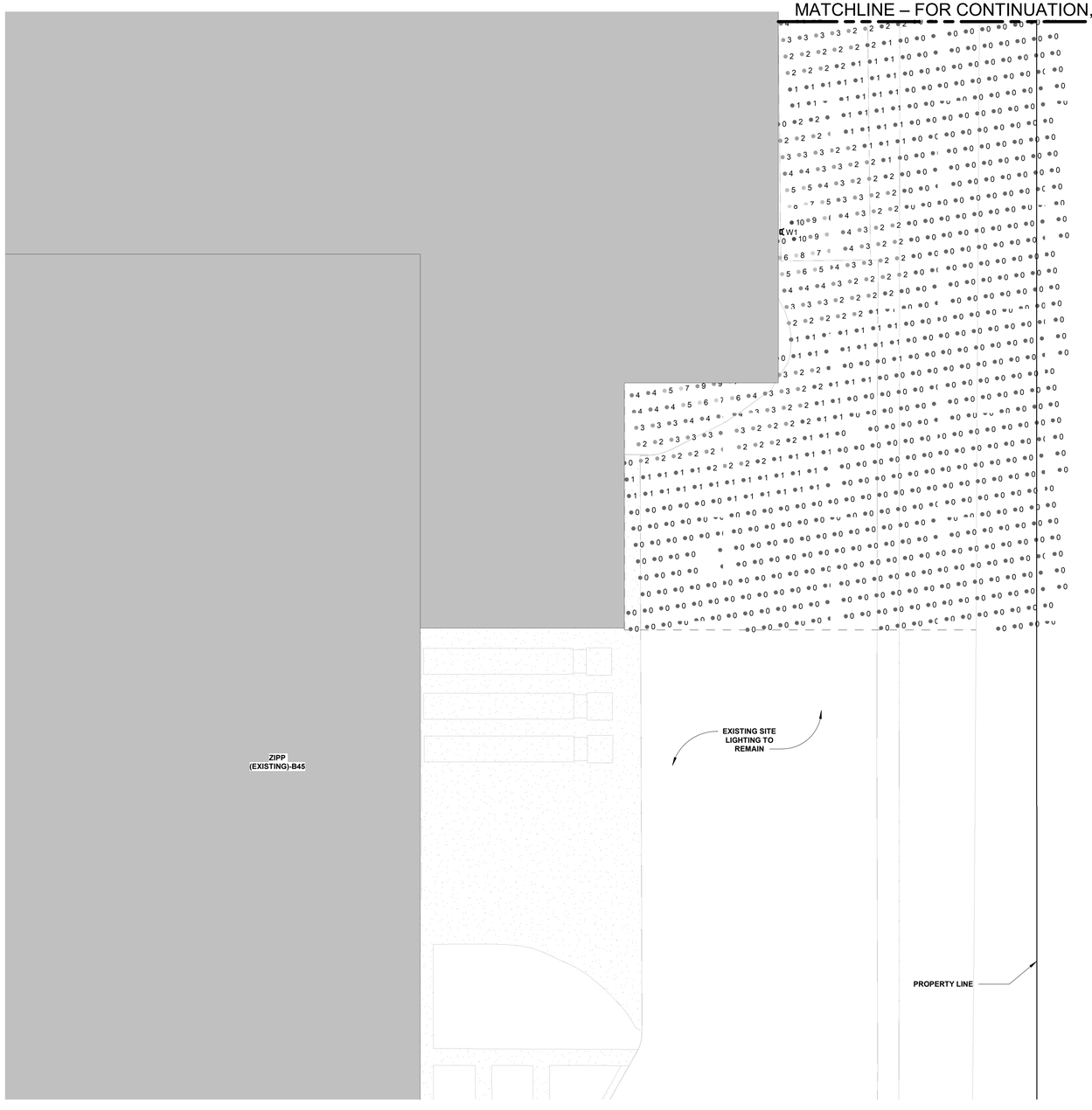
SEAL

DATE:

ENGINEER	ARCHITECT	REV BY	REV
	SRF	CED	A

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Autodesk Docs://25120_MJN_ZSC/25120_ZSC_67-70SPEC_Elec.rvt

Received: 04/06/26
City of Zeeland, MI



A ELECTRICAL SITE PHOTOMETRICS PLAN - AREA L

ZSCSIT-1473-E112 SCALE: 1" = 20'-0"

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Integrated Project Services
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Consulting

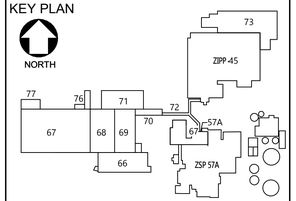
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Approved By	
Drafter / Designer	mm/dd/yy
Project Manager	mm/dd/yy
Quality Representative	mm/dd/yy
Operation Manager	mm/dd/yy
Maintenance Representative	mm/dd/yy
Customer Representative / Document Manager	mm/dd/yy

KEY PLAN



REV	DATE	DESCRIPTION	BY
A	02-APR-2026	SITE PLAN APPROVAL	CED

MeadJohnson NUTRITION

Title: ELECTRICAL SITE PHOTOMETRICS PLAN - AREA L

Project: ZSC VIVID

Location: 725 EAST MAIN STREET ZEELAND, MI 49464
MICHIGAN, UNITED STATES

C.A.R. OR P.O.NUMBER: CAR_NUMBER

SCALE:	AS NOTED	DATE:	02-APR-2026
PROJECT MANAGER:			
DESIGNER:			DLH
DRAFTER:			DLH
VENDOR NAME:			INTEGRATED PROJECT SERVICES
VENDOR PROJECT NUMBER:			GLD25120
DISCIPLINE:			
SYSTEM NAME:			
SYSTEM NUMBER:			
EQUIPMENT TYPE:			
LEGACY NUMBER:		SHEET #:	ZSCSIT-1473-E112
LEGACY DATE:			
LEGACY VENDOR:			
CAD FILE NAME:	ZSCSIT-1473-E112.dwg	DRAWING NUMBER	ZSCSIT-1473-E112
HARD COPY:			
DEPARTMENT:		SHEET:	

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414.278.6060
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VK CIVIL Vriesman & Korhorn
4664 Campus Dr. Ste 111
Kalamazoo, MI 49008
(269) 697-7120

SCALE

1" = 20' - 0"
0' 10' 20' 30' 40' 60'

02-APR-2026

SEAL

DATE:

ENGINEER	ARCHITECT	REV BY	REV
	SRF	CED	A

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