



MSP JACKSON COLD STORAGE BUILDING

CONSTRUCTION PLANS FOR
MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT & BUDGET
FILE NO.: 551/25366.DPL

PROJECT PERMITS

DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS (DLARA)
A PERMIT FROM DLARA IS REQUIRED FOR CONSTRUCTION OF COLD STORAGE BUILDING. THE CONTRACTOR SHALL APPLY FOR THE PERMIT AND PAY ALL FEES.



JACKSON MSP
JACKSON COUNTY, MICHIGAN

VICINITY MAP
N.T.S.



MSP JACKSON SITE LOCATION MAP

N.T.S.

Sec. 14 T.2 South , R.1 West
CITY OF JACKSON, JACKSON COUNTY, MI
3401 COOPER RD., JACKSON, MI 49201

SHEET INDEX

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E501	PHOTOMETRIC CALCULATIONS
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CIVIL ENGINEER
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS
NE Project #7106
46777 WOODWARD AVENUE
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
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STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LACH, R.A., DIRECTOR

DATE	REVISION
03/10/26	Phase 500 - 90%
02/02/26	Phase 500 - 50%

PROJECT DESCRIPTION
ORTONVILLE AND PONTIAC LAKE
SHOOTING RANGES
NEW STORAGE BUILDING

TITLE SHEET

PROJECT NO. 551/25366.DPL	INDEX	PCA	DRAWN BY	DESIGNED BY	DATE

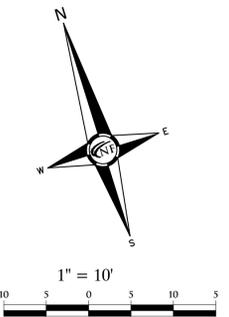
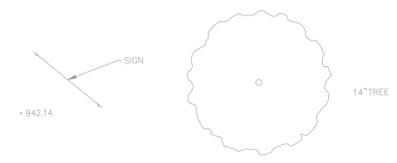
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ELECTRICAL/MECHANICAL ENGINEER
MATRIX
CONSULTING ENGINEERS, INC.
1601 E. CESAR CHAVEZ AVE.
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ARCHITECT
DS ARCHITECTS, INC
7300 DIXIE HWY. #600
CLARKSTON, MI 48346
PHONE: (248) 605-2030
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ENGINEERS

STATE OF MICHIGAN
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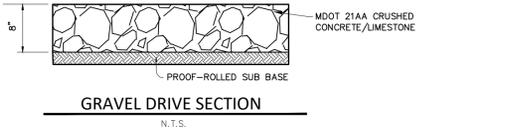
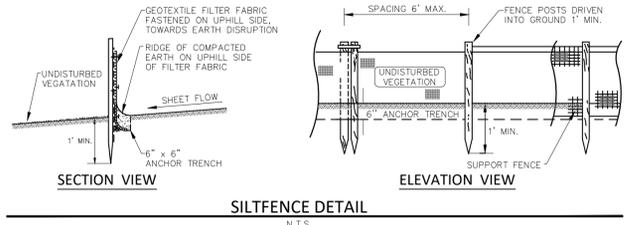
03/10/26	Phase 500 - 90%	Review
02/20/26	Phase 500 - 50%	
DATE		

PROJECT DESCRIPTION
**MICHIGAN STATE POLICE
 JACKSON MSP POLE BARN**
 3401 COOPER ST., JACKSON, MI 48201

Site Engineering Plan

PROJECT NO.	551252566 DPL
INDEX	
PC#	
DRAWN BY	DG
DESIGNED BY	DG
CHECKED BY	SS

C1.0



PAVING LEGEND

	PROPOSED GRAVEL DRIVE
--	-----------------------

LEGEND

	MANHOLE	EXISTING SANITARY SEWER
	HYDRANT	SAN. CLEAN OUT
	GATE VALVE	EXISTING WATERMAIN
	MANHOLE CATCH BASIN	EXISTING STORM SEWER
	EX. R. Y. CATCH BASIN	
	UTILITY POLE GUY POLE	EXISTING BURIED CABLES
	GUY WIRE	OVERHEAD LINES
		LIGHT POLE
		SIGN
		EXISTING GAS MAIN
	C.O. MANHOLE	PR. SANITARY SEWER
	HYDRANT GATE VALVE	PR. WATER MAIN
	INLET C.B. MANHOLE	PR. STORM SEWER
		PR. R. Y. CATCH BASIN
		PROPOSED LIGHT POLE
	TC 600.00	PR. TOP OF CURB ELEVATION
	GU 600.00	PR. GUTTER ELEVATION
	TW 600.00	PR. TOP OF WALK ELEVATION
	TP 600.00	PR. TOP OF P.W.M. ELEVATION
	FG 600.00	FINISH GRADE ELEVATION
	WT 600.00 WB 600.00	WALL TOP/BOTTOM ELEVATION

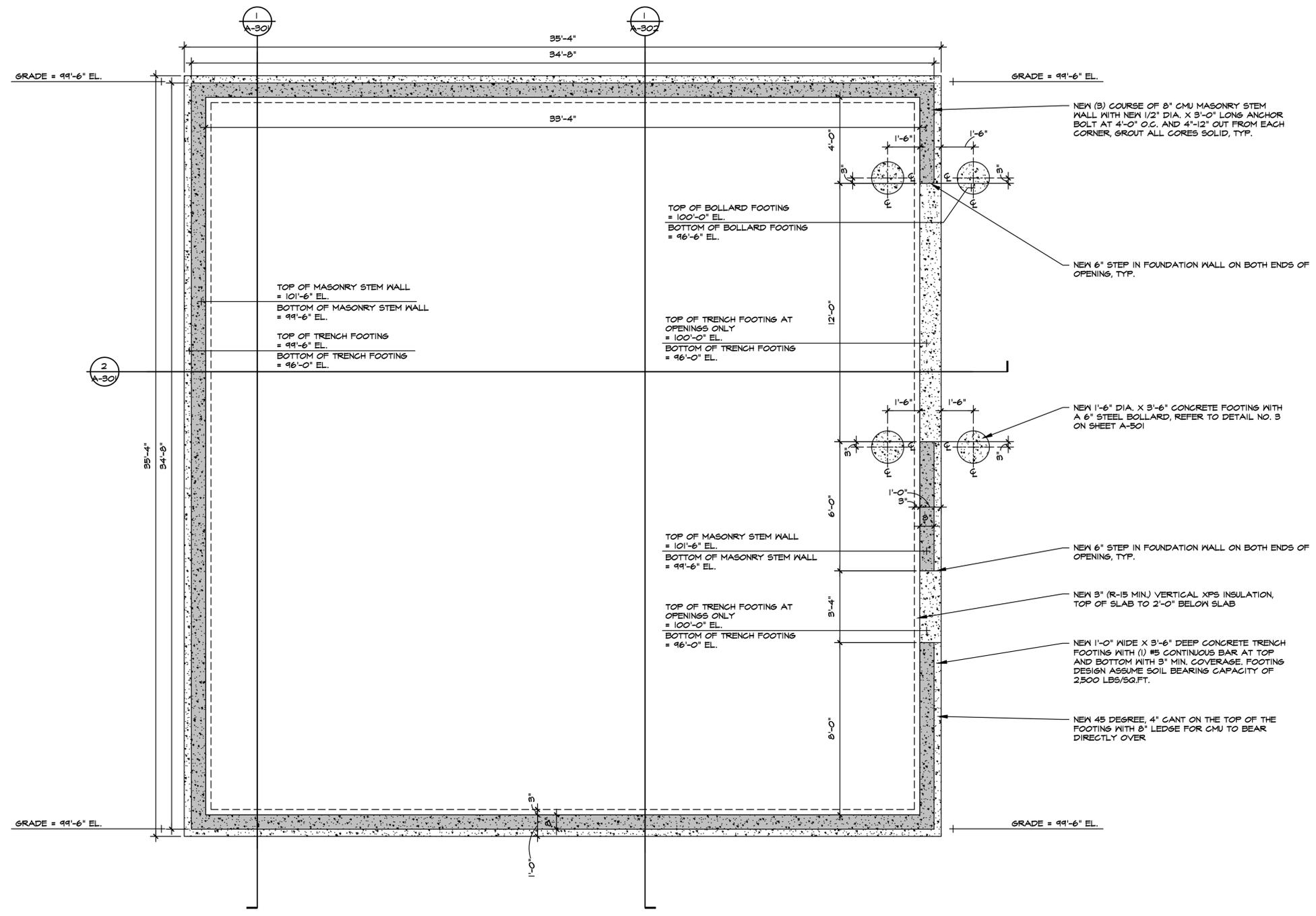
BUILDING SITE PREPARATION

- SITE PREPARATION SHALL INCLUDE CLEARING AND GRUBBING OF THE DESIGNATED BUILDING AREA, REMOVAL OF ALL ORGANIC TOPSOIL, AND DEVELOPMENT OF A STABLE BUILDING PAD EXTENDING A MINIMUM OF 5 FEET BEYOND THE POLE BARN FOOTPRINT. THE SUBGRADE SHALL BE PROOF-ROLLED, AND ANY UNSUITABLE OR YIELDING SOILS SHALL BE UNDERCUT AND REPLACED WITH ENGINEERED FILL COMPACTED IN CONTROLLED LIFTS TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY (ASTM D1557). THE BUILDING PAD SHALL BE GRADED TO THE DESIGN ELEVATION AND SHAPED TO PROMOTE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE.
- TRENCH FOOTINGS SHALL BE EXCAVATED IN ACCORDANCE WITH THE STRUCTURAL PLANS, TYPICALLY AROUND THE PERIMETER AND/OR AT INTERIOR LOAD-BEARING LINES DEPENDING ON BUILDING DESIGN. TRENCH EXCAVATIONS SHALL BE CUT TO THE REQUIRED WIDTH, DEPTH, AND BEARING ELEVATION, ENSURING UNIFORM BEARING SOIL THROUGHOUT. THE TRENCH BOTTOM SHALL BE INSPECTED FOR SOFT OR DISTURBED SOILS; ANY UNSUITABLE MATERIALS SHALL BE REMOVED AND REPLACED WITH COMPACTED GRANULAR FILL, FORMS, REINFORCEMENT STEEL, AND KEYWAYS SHALL BE PLACED AS SPECIFIED. CONCRETE FOR TRENCH FOOTINGS SHALL BE PLACED ON UNDISTURBED NATIVE SOIL OR PROPERLY COMPACTED FILL TO DEVELOP REQUIRED BEARING CAPACITY.
- AFTER TRENCH FOOTINGS ARE INSTALLED AND CURED SUFFICIENTLY TO SUPPORT CONSTRUCTION LOADS, WALL FRAMING OR COLUMN INSTALLATION MAY PROCEED PER STRUCTURAL REQUIREMENTS. WITHIN THE BUILDING FOOTPRINT, THE INTERIOR SUBGRADE SHALL BE FINE-GRADED AND COMPACTED BEFORE PLACEMENT OF A SAND BASE. A VAPOR BARRIER AND CONCRETE SLAB REINFORCEMENT (MESH OR REBAR) SHALL BE INSTALLED PER THE STRUCTURAL PLANS, INCLUDING THICKENED EDGE OR INTERIOR TRENCH TRANSITIONS WHERE APPLICABLE. FINAL GRADING AROUND THE BUILDING SHALL MAINTAIN POSITIVE DRAINAGE AND PROTECT THE TRENCH FOOTING SYSTEM FROM PONDING OR EROSION.

SITE RESTORATION

- ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE RESTORED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- TOPSOIL USED FOR RESTORATION SHALL CONSIST OF SCREENED TOPSOIL, FREE OF DEBRIS, STONES, AND ORGANIC MATTER, AND PLACED TO THE MINIMUM DEPTH SPECIFIED ON THE PLANS.
- ALL RESTORED AREAS SHALL BE FINE-GRADED TO MATCH ADJACENT CONTOURS AND ENSURE POSITIVE DRAINAGE AWAY FROM STRUCTURES.
- HYDROSEEDING SHALL BE APPLIED TO ALL DISTURBED AREAS NOT OTHERWISE RECEIVING BUILDING STRUCTURES, OR AGGREGATE DRIVE, USING THE SEED MIX, MULCH, AND APPLICATION RATES SPECIFIED IN THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL WATER, MAINTAIN, AND RE-SEED AREAS AS NECESSARY TO ACHIEVE FULL, UNIFORM TURF ESTABLISHMENT.
- ANY SETTLEMENT, EROSION, OR DAMAGE TO RESTORED AREAS OCCURRING PRIOR TO FINAL ACCEPTANCE SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.

STRUCTURE INFO.	DESIGN LOADS	CONCRETE MIXES	SITE & SUBGRADE PREPARATION	FOOTING	
'S1' - MODERATE-HAZARD STORAGE 5B - CONSTRUCTION TYPE AREA: 1,296 S.F. OCCUPANTS: 1,296/500 = 3 OCC.	ROOF LOADS DEAD LOAD: TOP CHORD: 10 PSF BOTTOM CHORD: 10 PSF LIVE LOAD: 20 PSF WIND LOADS 3 SECONDS GUST WIND SPEED VULT= 105 MPH VASD= 82 MPH EXPOSURE= B RISK= II SNOW LOAD: 25 PSF DESIGN LOAD OF SOIL: 2,500 LBS/SQ.FT. SEISMIC DESIGN CATEGORY: B SEISMIC SITE CLASS: D	FOR TRENCH FOOTINGS ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS: NOT LESS THAN 4,500 PSI. CEMENT CONTENT: NOT LESS THAN 560 POUNDS PER CUBIC YARD WATER / CEMENT RATIO: NOT MORE THAN 0.45 SLUMP: NOT MORE THAN 4 INCHES MODULUS OF RUPTURE AT 28 DAYS: NOT LESS THAN 575 PSI REINFORCING REINFORCEMENT SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A615 OR A996, GRADE 60.	FOR SLABS ON GRADE ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS: NOT LESS THAN 4,000 PSI. CEMENT CONTENT: NOT LESS THAN 550 POUNDS PER CUBIC YARD WATER / CEMENT RATIO: NOT MORE THAN 0.48 SLUMP: NOT MORE THAN 3 INCHES MODULUS OF RUPTURE AT 28 DAYS: NOT LESS THAN 550 PSI	TREES AND VEGETATION IN THE CONSTRUCTION AREA SHOULD BE CLEARED AND REMOVED AS PART OF SUBGRADE PREPARATION. THE TOPSOIL SHOULD BE REMOVED TO THE EXTENT THAT ALL SOIL WITH AN ORGANIC CONTENT OF 5.0 PERCENT OR GREATER IS REMOVED. SOIL CONTAINING ROOTS SHOULD BE REMOVED TO THE EXTENT THAT THE ROOT CONTENT BY VOLUME IS 5.0 PERCENT OR LESS. ALL ROOTS OVER 0.5 INCHES IN DIAMETER SHOULD BE REMOVED. THE AVERAGE AMOUNT OF TOPSOIL ANTICIPATED TO BE REMOVED IS 5.0 INCHES. FILL AND EXCAVATION MAY BE REQUIRED TO ACHIEVE THE DESIRED GRADE. EXCAVATED SAND MAY BE RETAINED FOR USE AS FILL IN AREAS WHERE DRAINAGE IS NOT A CONSIDERATION. IN-SITU SAND SHOULD BE COMPACTED TO 45.0 PERCENT OF ITS MAXIMUM DENSITY PRIOR TO PLACEMENT OF FILL. SAND NOT MEETING THIS REQUIREMENT SHOULD BE RECOMPACTED. FILL SHOULD BE PLACED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE "FILL" SECTION OF THIS REPORT. THE FILL SHOULD BE COMPACTED TO 45.0 PERCENT OF ITS MAXIMUM DENSITY TO ITS FULL DEPTH. SOIL BROUGHT TO THE SITE FOR FILL SHOULD BE CLEAN SAND MEETING MDOT CLASS II SPECIFICATIONS. THE SOIL WHICH WILL BE USED FOR FILL SHOULD BE KEPT FREE OF TOPSOIL AND OTHER ORGANIC MATERIALS. COMPACTION TESTS ARE RECOMMENDED TO CHECK THE COMPACTION OF THE NEW FILL.	FILL BELOW THE BUILDING SHOULD BE COMPACTED TO A DENSITY OF 45.0 PERCENT OF THE SOIL'S MAXIMUM DENSITY TO ITS FULL DEPTH. IN-SITU SAND SHOULD BE COMPACTED TO 45.0 PERCENT OF THE SAND'S MAXIMUM DENSITY. COMPACTION TESTS SHOULD BE PERFORMED IN THE FOUNDATION SUBGRADE TO VERIFY THESE LEVELS OF COMPACTION. SOILS NOT EXCEEDING THE MINIMUM DENSITY SHOULD BE RECOMPACTED. IF FOUNDATIONS ARE CONSTRUCTED ON CLAY, THE IN-SITU CLAY SHOULD BE DRY AND LEVEL TO ENSURE PROPER CONTACT BETWEEN THE SUBGRADE AND CONCRETE. FOUNDATIONS SHOULD NOT BE CONSTRUCTED ON FROZEN SOIL. DURING COLD WEATHER CONSTRUCTION, THE FOUNDATION SUBGRADE AND FOUNDATIONS SHOULD BE PROTECTED FROM FREEZING WITH INSULATED BLANKETS UNTIL BACKFILL IS PLACED OVER BOTH SIDES OF THE FOUNDATION. FOUNDATIONS THAT ARE DAMAGED BY FROST HEAVE SHOULD BE REPLACED.



FOOTING PLAN
3/8" = 1'-0"
NORTH

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 7300 ONE WAY
 CLARKESTON MI 48346
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CIVIL ENGINEER
 Civil Engineers
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 DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
 STATE FACILITIES ADMINISTRATION
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 ADAM P. LACH, RA, DIRECTOR

3/13/26
 3/10/26
 2/4/26
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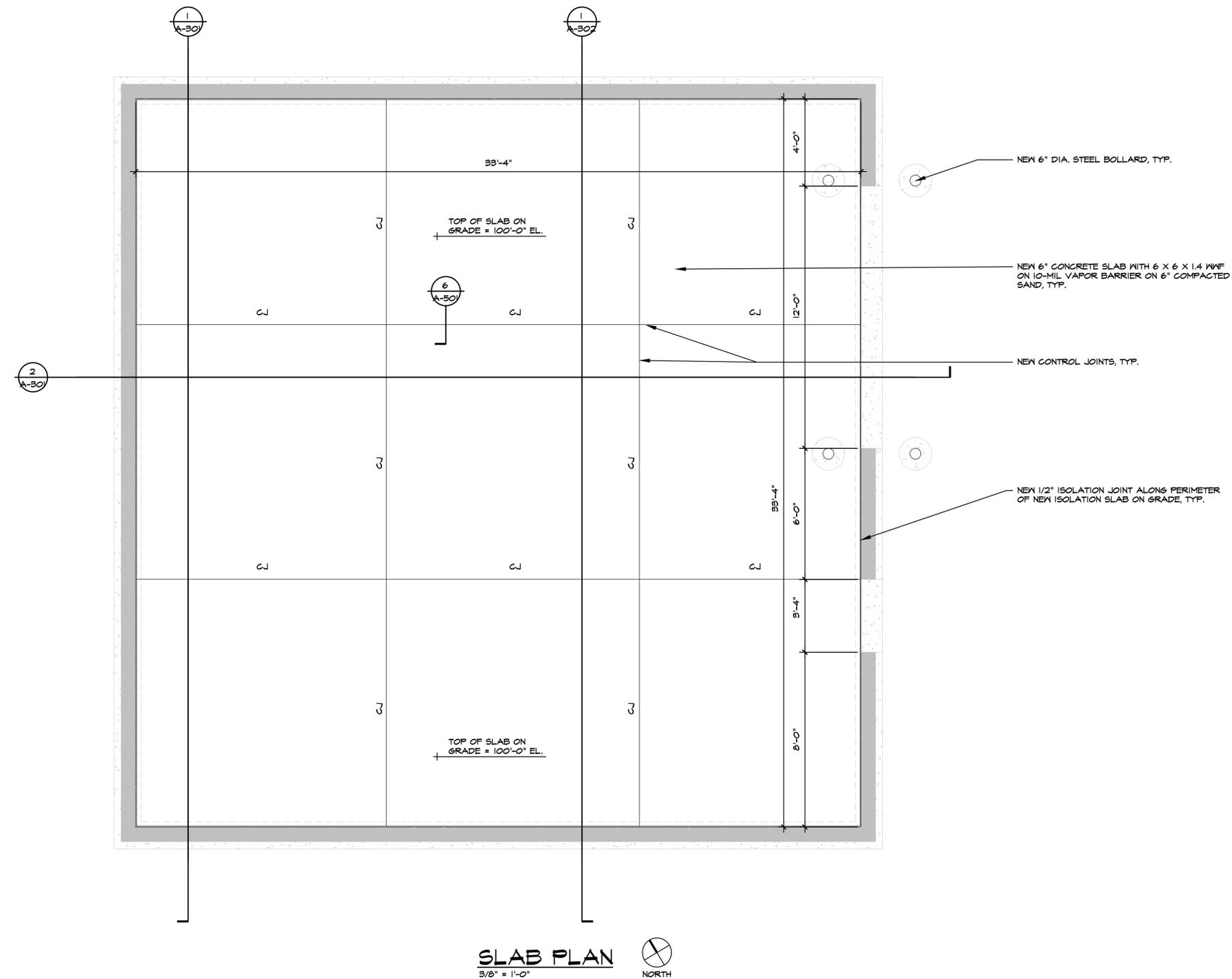
PROJECT DESCRIPTION
MSP JACKSON
COLD STORAGE BUILDING
 3401 COOPER ST., JACKSON, MI 48201

FOOTING PLAN

DTMB PROJECT # 55125266 DPL
 ARCH PROJECT #
 DRAWN BY KJM
 DESIGNED BY DJS
 JCIENG BY SS

A-101
OF
12

STRUCTURE INFO.	DESIGN LOADS	CONCRETE MIXES	SITE & SUBGRADE PREPARATION
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3/8" = 1'-0"
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DEREK J. SLUPKA
ARCHITECT
NO. 1801091472
LICENSED ARCHITECT

Drew Skow

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BID	Review
PHASE 500 - 90%	
PHASE 500 - 50%	
DATE	

PROJECT DESCRIPTION
MSP JACKSON
COLD STORAGE BUILDING
3401 COOPER ST., JACKSON, MI 48201

SLAB PLAN

DTMB PROJECT #	55125366.DPL
ARCH PROJECT #	KJM
DRAWN BY	DJS
DESIGNED BY	JCIENG BY
	SS

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LACH, RA, DIRECTOR

STRUCTURE INFO.

'S1' - MODERATE-HAZARD STORAGE
 5B - CONSTRUCTION TYPE
 AREA: 1,296 S.F.
 OCCUPANTS: 1,296/500 = 3 OCC.

DESIGN LOADS

ROOF LOADS

DEAD LOAD: TOP CHORD: 10 PSF
 BOTTOM CHORD: 10 PSF

LIVE LOAD: 20 PSF

WIND LOADS

3 SECONDS GUST WIND SPEED

VULT= 105 MPH VASD= 82 MPH
 EXPOSURE= B
 RISK= II

SNOW LOAD:

25 PSF

DESIGN LOAD OF SOIL: 2,500 LBS/SQ.FT.

SEISMIC DESIGN CATEGORY: B

SEISMIC SITE CLASS: D

DOOR SCHEDULE

DOOR NO.	OPEN SIZE	DOOR TYPE	FRAME TYPE	DOOR	FRAME	LATCH	HINGES	CLOSER	THRESHOLD	GASKET	LATCH GUARD	NOTES
100A	3'-0" X 7'-0"	STEEL	METAL	DI	FI	LI	HI	CI	TI	G1	L61	NI

GENERAL NOTES

G1. ALL DOOR SIZE DIMENSIONS GIVEN ARE APPROXIMATE. DOOR SUPPLIER SHALL FIELD VERIFY EXACT REQUIREMENTS.

DOORS

DI. STEEL - INSULATED - FLUSH
 PROVIDE NEW 'STEELCRAFT' B SERIES STEEL STIFFENED DOOR WITH FIBERGLASS INSULATION. EXTERIOR TO BE 14 GAUGE GALVANNEALED STEEL WITH SEAMLESS WELDED EDGE CONSTRUCTION BWH4 LEVEL 4. PRIME FINISH.

FRAMES

FI. STEEL FRAME - 14 GA
 PROVIDE NEW 'STEELCRAFT' F SERIES DOOR FRAME. FRAME TO BE AN F14, 14 GAUGE GALVANNEALED DOUBLE RABBIT WITH WELDED CORNERS AND AUXILIARY HINGE REINFORCEMENT 3HRO103P002-6L. PRIME FINISH.

LATCHSET/LOCKSET

LI. ELECTRONIC KEYLESS ACCESS LOCK - LOCKSET
 PROVIDE NEW BATTERY POWER 'ALARM LOCK' TRIL06Y T2 DL2700C26DS WITH AN SCHLAGE INTERCHANGEABLE CORE US26D FINISH.

HINGES

HI. BALL BEARING- NON REMOVABLE PIN
 PROVIDE NEW HINGES, 1 1/2 PAIR PER LEAF, 4 1/2" X 4 1/2", WITH BALL BEARINGS, NON-REMOVABLE PIN, BB1149 BY 'HAGER' OR EQUAL. FINISH US32D.

CLOSERS

CI. PARALLEL CLOSER - PULL SIDE - NO HOLD OPEN
 PROVIDE NEW 'LGN' CLOSER #4210 SERIES, PARALLEL (PULL SIDE) MOUNTING, FINISH 689 ALUMINUM. PROVIDE 4210-30TTEDA, EXTRA HEAVY DUTY ARM.

THRESHOLD

TI. ALUM THRESHOLD
 PROVIDE NEW HEAVY DUTY LATCHING PANIC EXIT SADDLE THRESHOLD BY 'PEMCO' T100 SERIES OR EQUAL. FINISH 'A'. VERIFY IN FIELD EXACT WIDTH, LENGTH AND MATCH DEPTH OF FRAME.

GASKETS AND SEALS

G1. WEATHERSTRIP THERMAL SEAL - NOT FIRE RATED
 PROVIDE NEW FIRE RATED ADHESIVE GASKETING FOR FIRE AND SMOKE BY 'PEMCO' MODEL #FK33 OR EQUAL. FINISH 'BL' BLACK.

LATCH GUARD

L61 LATCH GUARD
 PROVIDE NEW STAINLESS STEEL LATCH GUARD BY 'ROCKWOOD' 320-RKM. STAINLESS STEEL FINISH.

NOTES

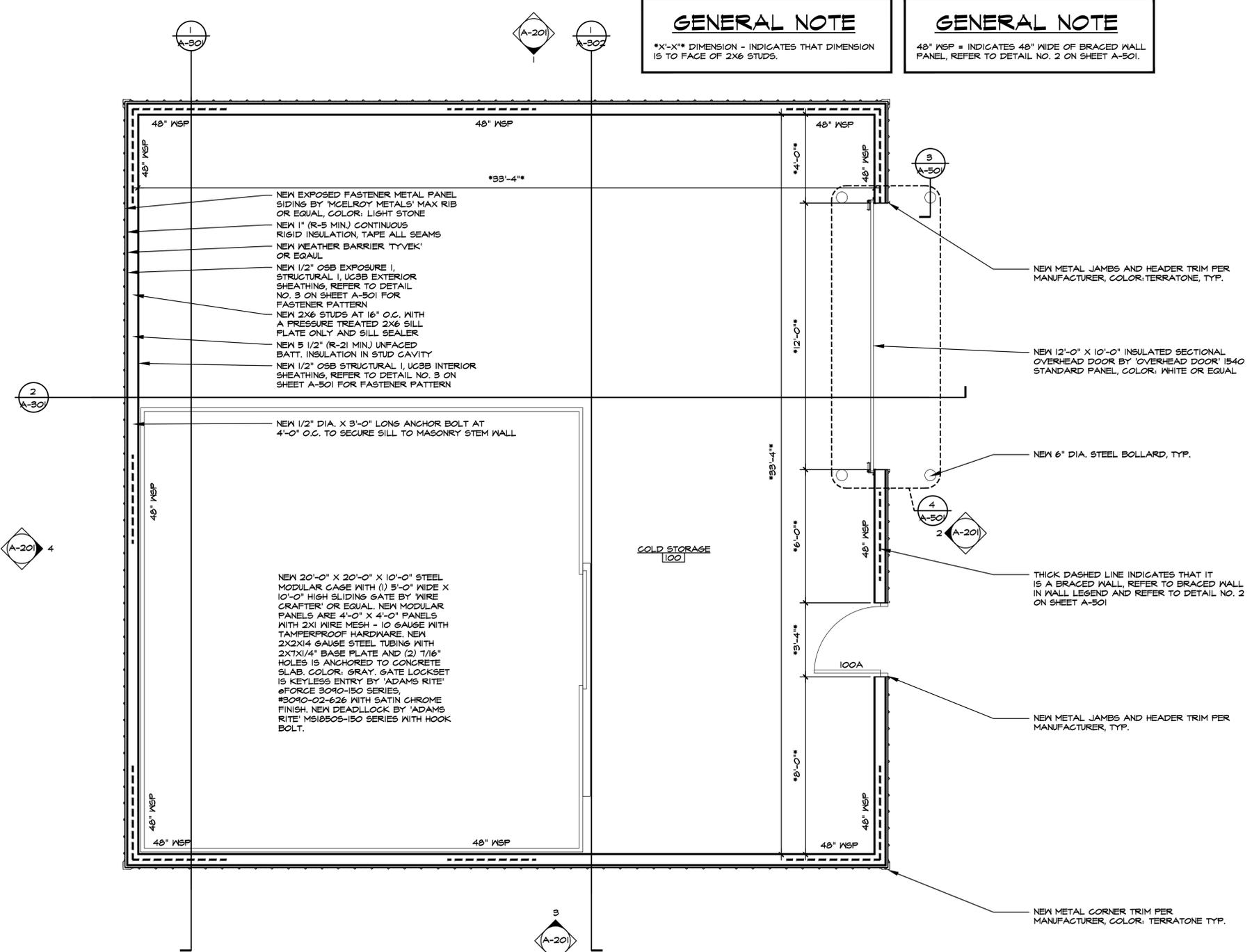
NI. PROVIDE NEW EXTERIOR PAINT FINISH (MATTE WHITE) TO MATCH EXISTING ON BOTH DOOR AND DOOR FRAME.

GENERAL NOTE

*X'-X" DIMENSION - INDICATES THAT DIMENSION IS TO FACE OF 2X6 STUDS.

GENERAL NOTE

48" MSP = INDICATES 48" WIDE OF BRACED WALL PANEL, REFER TO DETAIL NO. 2 ON SHEET A-501.



FLOOR PLAN
 3/8" = 1'-0"
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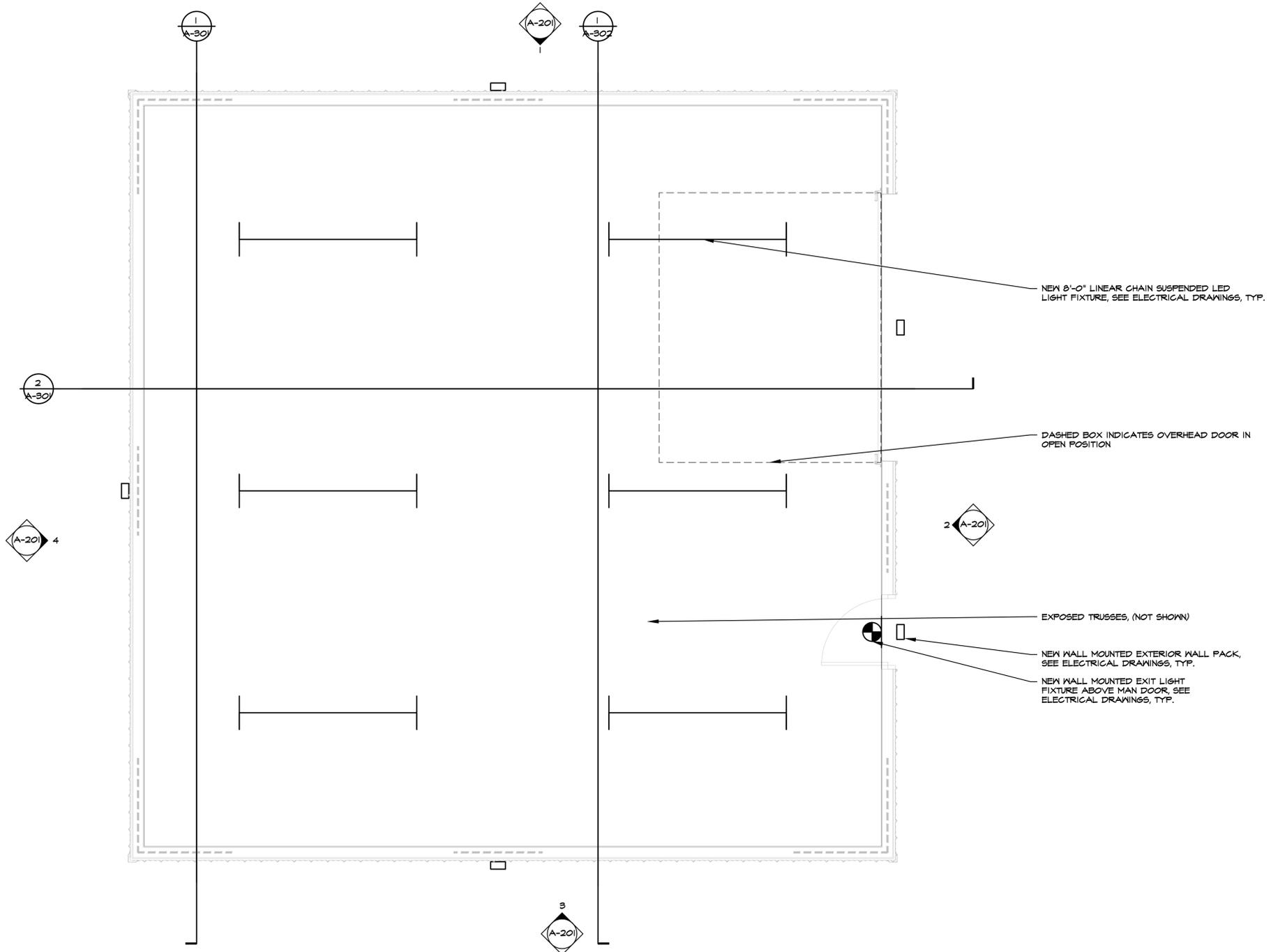
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 SEISMIC DESIGN CATEGORY: B
 SEISMIC SITE CLASS: D



REFLECTED CEILING PLAN

3/8" = 1'-0"



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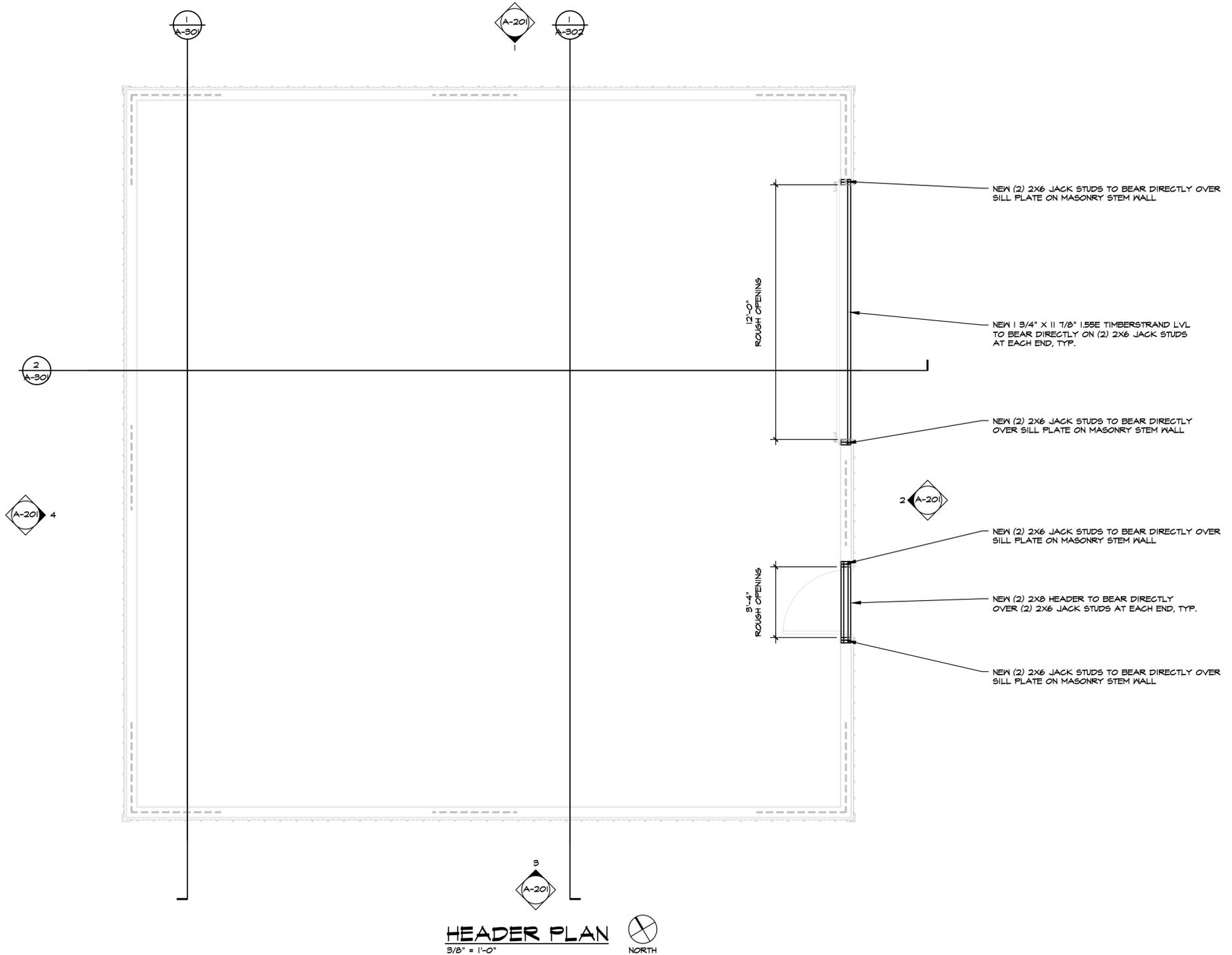
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WIND LOADS

3 SECONDS GUST WIND SPEED

VULT= 105 MPH VASD= 82 MPH
 EXPOSURE= B
 RISK= II

SNOW LOAD: 25 PSF
 DESIGN LOAD OF SOIL: 2,500 LBS/SQ.FT.
 SEISMIC DESIGN CATEGORY: B
 SEISMIC SITE CLASS: D



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 ADAM P. LACH, RA, DIRECTOR

3/13/26	BID	Review
3/10/26	PHASE 500 - 90%	
2/4/26	PHASE 500 - 50%	
DATE		

PROJECT DESCRIPTION
MSP JACKSON
COLD STORAGE BUILDING
 3401 COOPER ST., JACKSON, MI 48201

HEADER PLAN

DTMB PROJECT #	55125366.DPL
ARCH PROJECT #	KJM
DRAWN BY	DJS
DESIGNED BY	JCIENG BY
	SS

STRUCTURE INFO.

'S1' - MODERATE-HAZARD STORAGE
 5B - CONSTRUCTION TYPE
 AREA: 1,296 S.F.
 OCCUPANTS: 1,296/500 = 3 OCC.

DESIGN LOADS

ROOF LOADS

DEAD LOAD: TOP CHORD: 10 PSF
 BOTTOM CHORD: 10 PSF

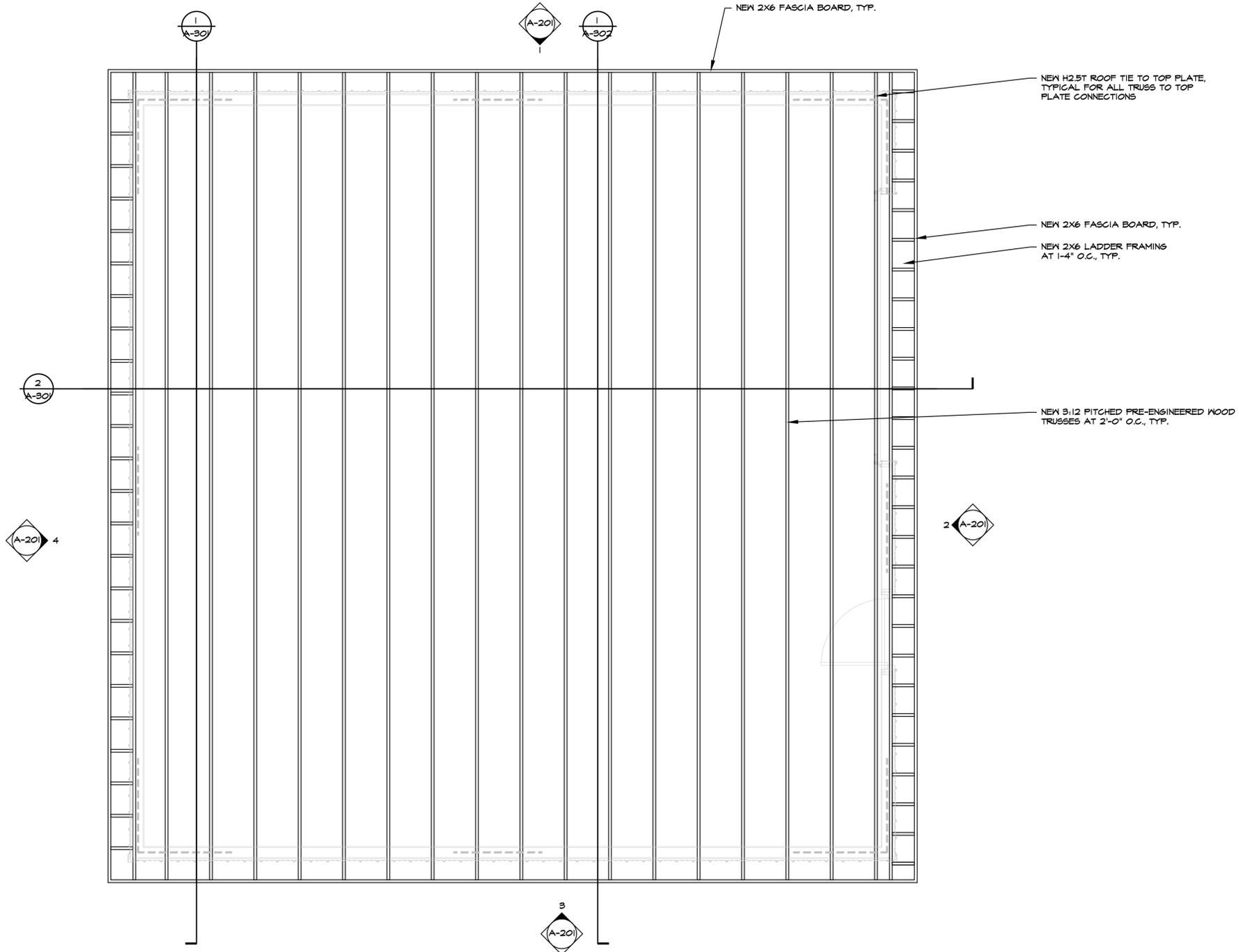
LIVE LOAD: 20 PSF

WIND LOADS

3 SECONDS GUST WIND SPEED

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 EXPOSURE= B
 RISK= II

SNOW LOAD: 25 PSF
 DESIGN LOAD OF SOIL: 2,500 LBS/SQ.FT.
 SEISMIC DESIGN CATEGORY: B
 SEISMIC SITE CLASS: D



ROOF FRAMING PLAN

3/8" = 1'-0"



Derek Suika

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ROOF FRAMING PLAN

DTMB PROJECT #	55125366.DPL
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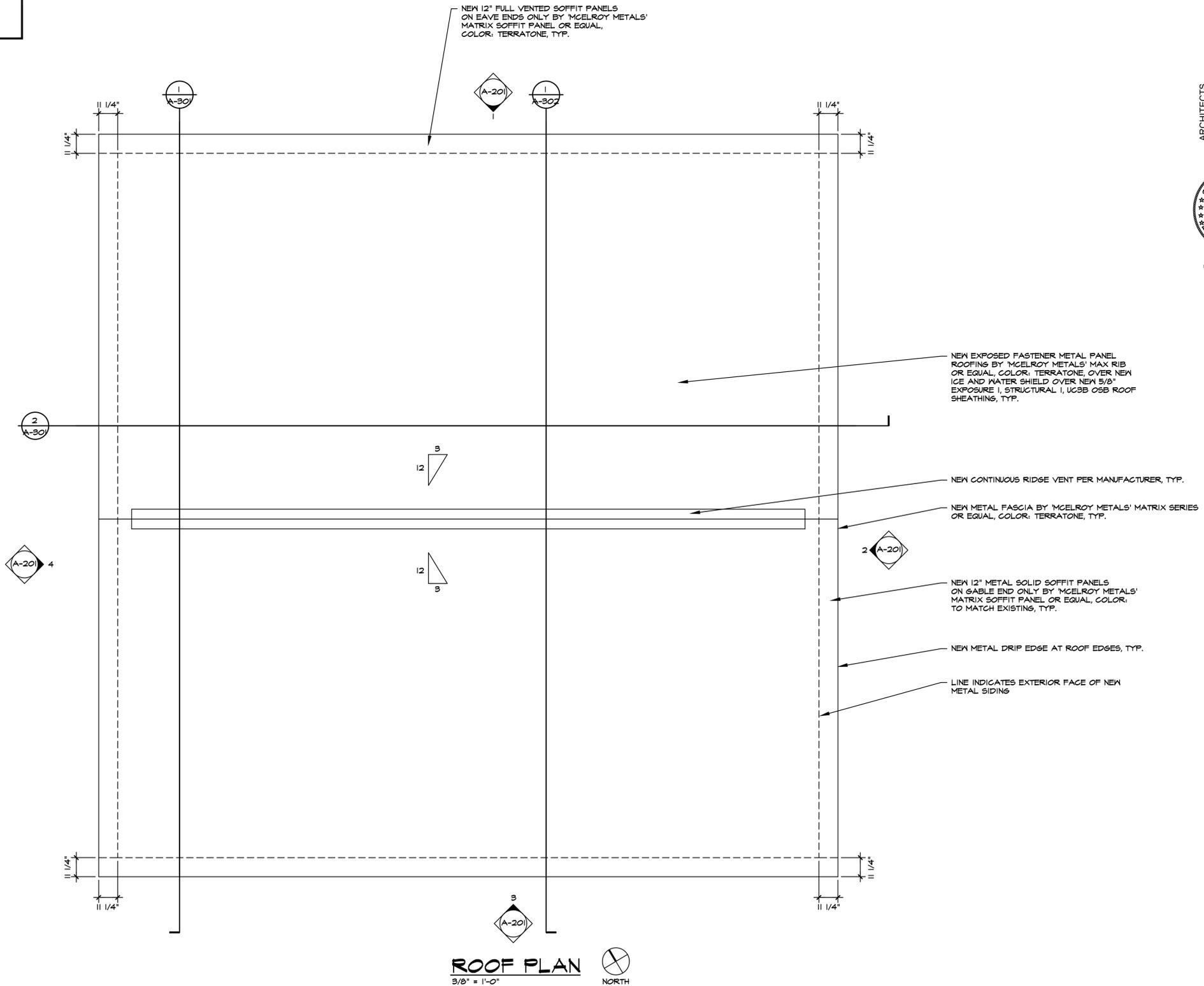
DEAD LOAD: TOP CHORD: 10 PSF
 BOTTOM CHORD: 10 PSF

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WIND LOADS
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ROOF PLAN
 3/8" = 1'-0"



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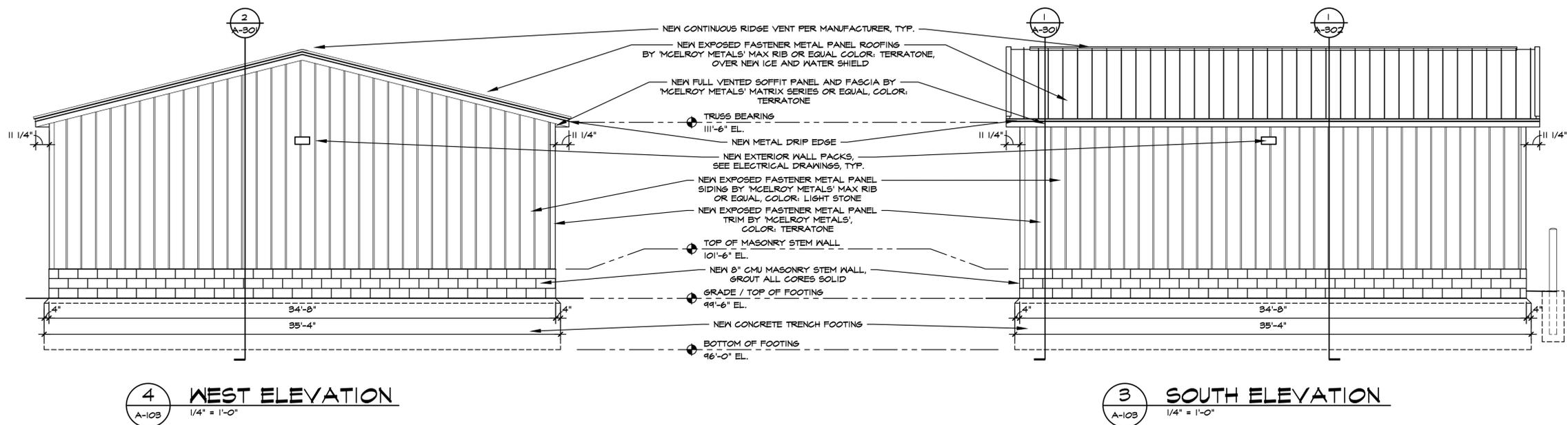
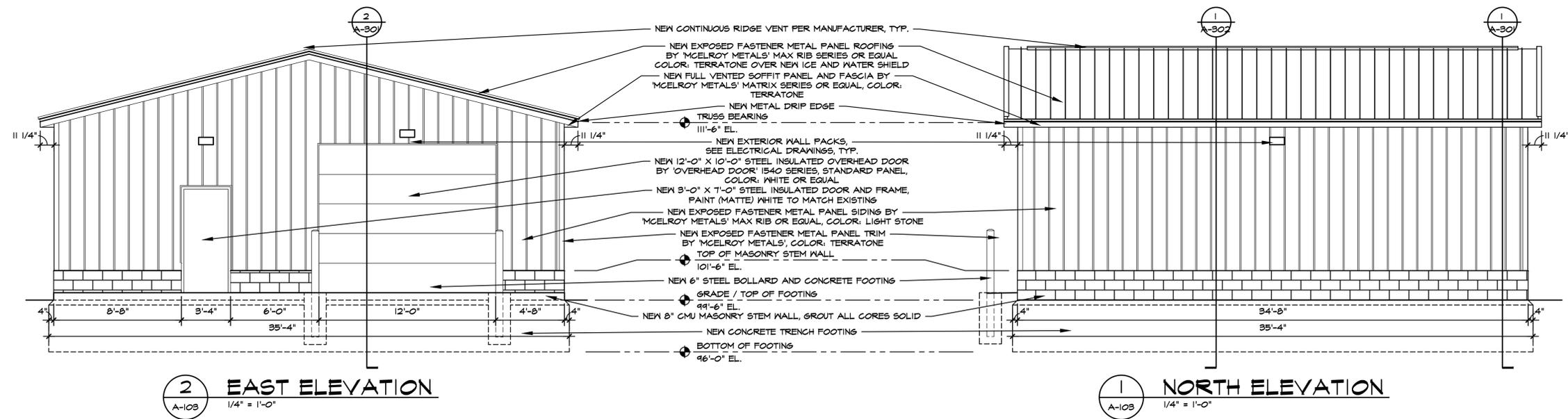
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 3401 COOPER ST., JACKSON, MI 48201

ROOF PLAN

DTMB PROJECT #	55125366.DPL
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PROJECT DESCRIPTION
**MSP JACKSON
COLD STORAGE BUILDING**
3401 COOPER ST., JACKSON, MI 48201

ELEVATIONS

DTMB PROJECT #	55125366 DPL
ARCH PROJECT #	KJM
DRAWN BY	DJS
DESIGNED BY	JCIENG BY
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NEW EXPOSED FASTENER METAL PANEL ROOFING BY MCELROY METALS' MAX RIB SERIES OR EQUAL, COLOR: TERRATONE, OVER NEW ICE AND WATER SHIELD OVER NEW 5/8" EXPOSURE 1, STRUCTURAL I, UC9B OSB ROOF SHEATHING

NEW METAL DRIP EDGE AT ROOF EDGES
NEW 2X6 FASCIA BOARD

NEW METAL FASCIA AND SOLID SOFFIT PANEL AT GABLE ENDS ONLY BY MCELROY METALS' MATRIX SERIES OR EQUAL, COLOR: TERRATONE

TRUSS BEARING

111'-6" EL.

NEW WEATHER BARRIER TYVEK' OR EQUAL
NEW 1" (R-5 MIN) CONTINUOUS RIGID INSULATION, TAPE ALL SEAMS

NEW 1/2" OSB EXTERIOR SHEATHING, REFER TO DETAIL NO. 1 OR 2 ON SHEET A-301 FOR BRACED OR TYPICAL WALL CONSTRUCTION

NEW 2X6 STUDS AT 1'-4" O.C. WITH 5 1/2" (R-21 MIN) UNFACED BATT INSULATION IN STUD CAVITY

NEW 1/2" OSB INTERIOR SHEATHING, REFER TO DETAIL NO. 1 OR 2 ON SHEET A-301 FOR BRACED OR TYPICAL WALL CONSTRUCTION

NEW EXPOSED FASTENER METAL PANEL SIDING BY MCELROY METALS' MAX RIB SERIES OR EQUAL, COLOR: LIGHT STONE

SHADED AREA INDICATES THAT 1/2" SHEATHING IS BRACED WALL PANEL, REFER TO DETAIL NO. 2 ON SHEET A-301 FOR MORE INFORMATION

NEW 6" CONCRETE SLAB WITH 6 X 6 X 1.4 WVF ON 10-MIL VAPOR BARRIER ON 6" COMPACTED SAND

TOP OF MASONRY STEM WALL

101'-6" EL.

NEW 8" CMU MASONRY STEM WALL, GROUT ALL CORES SOLID WITH NEW 1/2" DIA. X 3'-0" LONG ANCHOR BOLT AT 4'-0" O.C. AND 4"-12" FROM EACH CORNER, TYP.

SLAB ON GRADE

100'-0" EL.

GRADE / TOP OF FOOTING

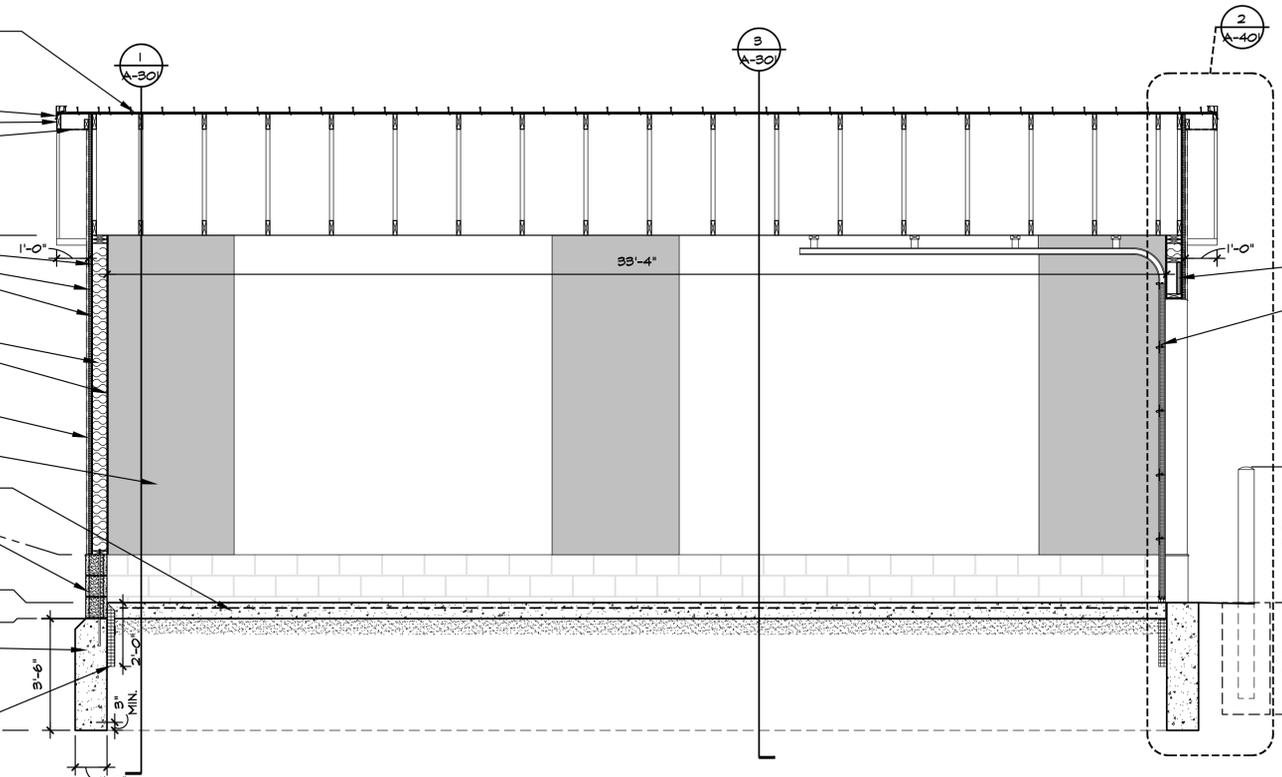
99'-6" EL.

NEW 1'-0" WIDE X 3'-6" DEEP CONCRETE TRENCH FOOTING WITH (1) #5 CONTINUOUS BAR AT TOP AND BOTTOM WITH 3" MIN. COVERAGE, FOOTING DESIGN ASSUME SOIL BEARING CAPACITY OF 2500 LBS/SQ.FT.

BOTTOM OF FOOTING

96'-0" EL.

NEW 3" (R-15 MIN) VERTICAL XPS INSULATION, TOP OF SLAB TO 2'-0" BELOW SLAB



NEW 1 3/4" X 11 7/8" L55E TIMBERSTRAND LVL TO BEAR DIRECTLY ON (2) 2X6 JACK STUDS AT EACH END
NEW 12'-0" X 10'-0" INSULATED STEEL SECTIONAL OVERHEAD DOOR BY OVERHEAD DOOR' 1540 SERIES OR EQUAL, COLOR: WHITE

2 BUILDING SECTION
A-301 3/8" = 1'-0"

NEW CONTINUOUS RIDGE VENT PER MANUFACTURER

NEW EXPOSED FASTENER METAL PANEL ROOFING BY MCELROY METALS' MAX RIB SERIES OR EQUAL, COLOR: TERRATONE, OVER NEW ICE AND WATER SHIELD OVER NEW 5/8" EXPOSURE 1, STRUCTURAL I, UC9B OSB ROOF SHEATHING

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100'-0" EL.

GRADE / TOP OF FOOTING

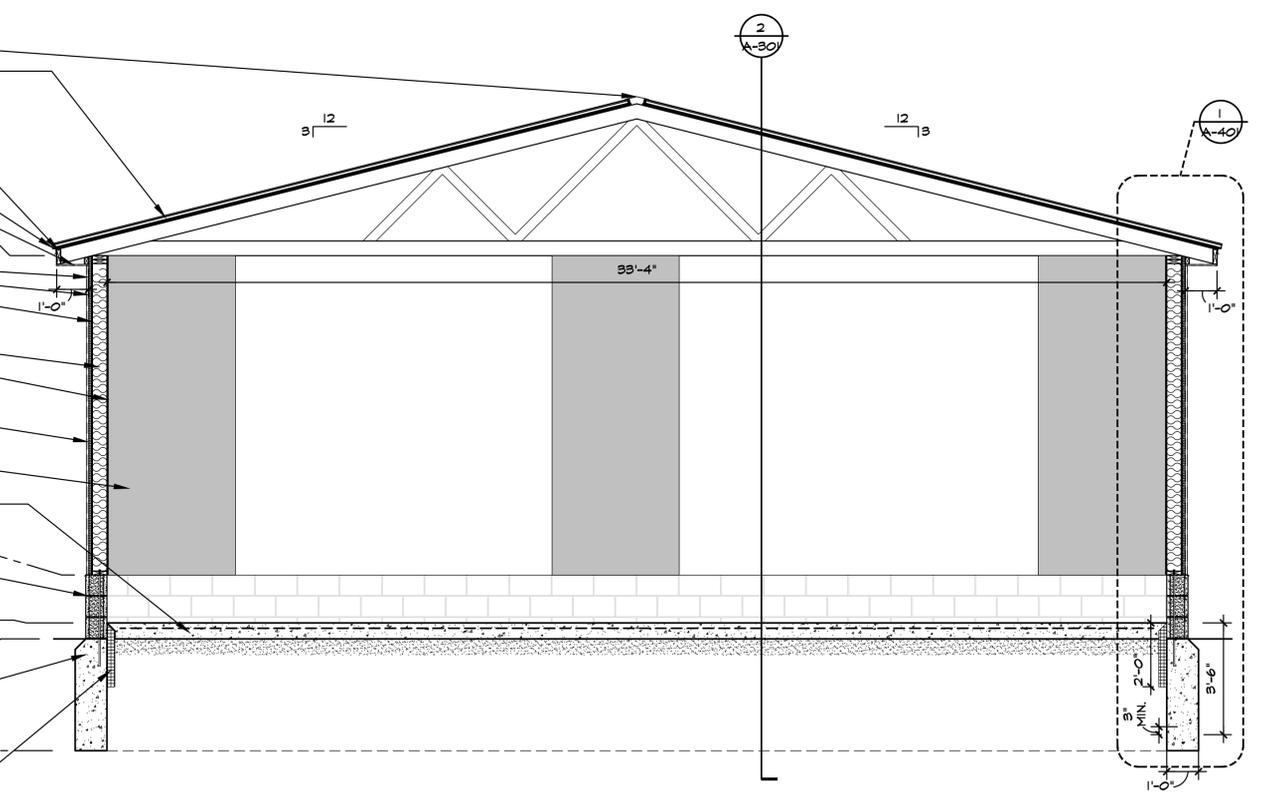
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1 BUILDING SECTION
A-301 3/8" = 1'-0"

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Drew Skow

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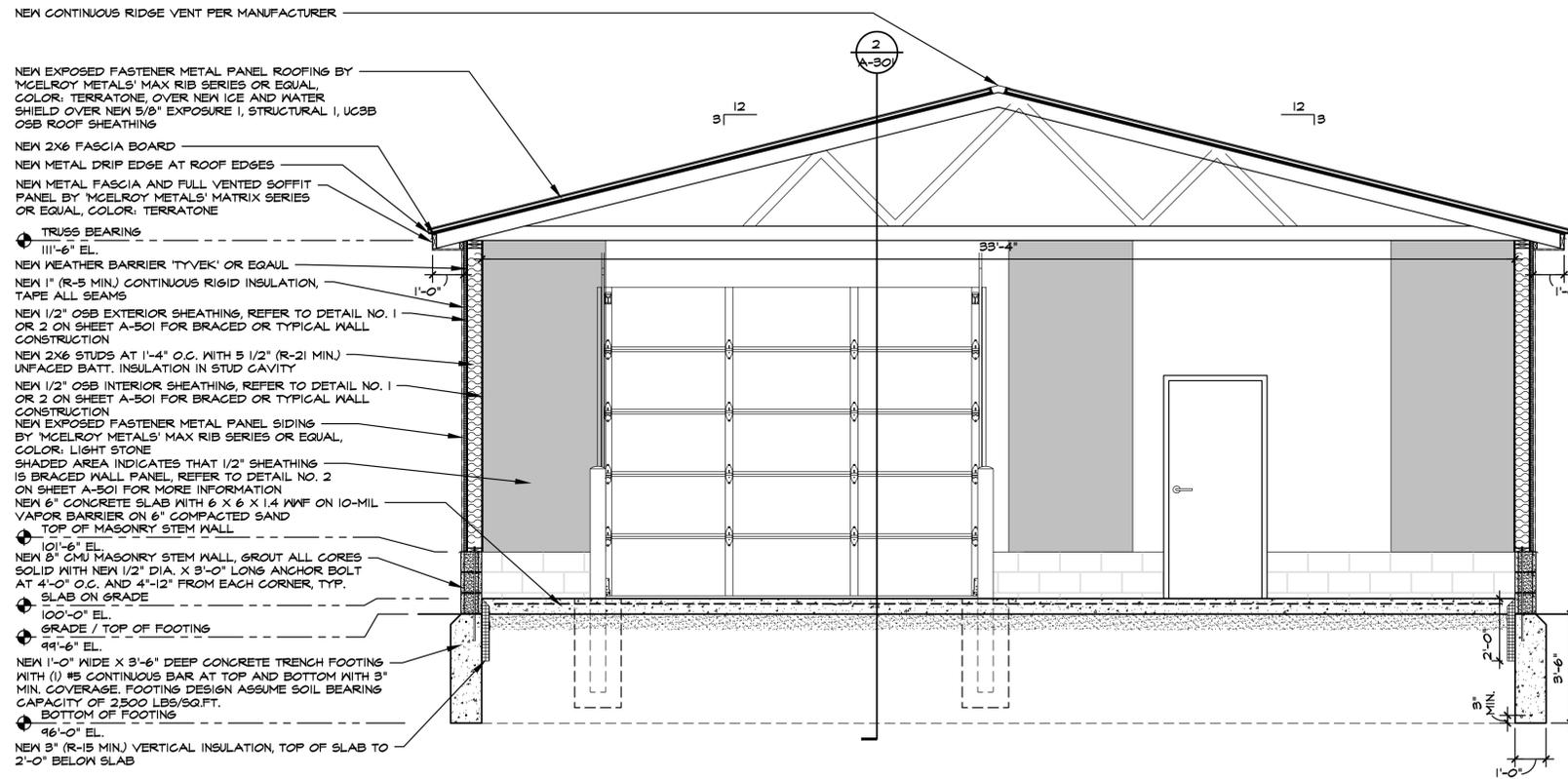
	BID	Review
3/13/26	PHASE 500 - 90%	
3/10/26	PHASE 500 - 90%	
2/4/26	PHASE 500 - 50%	
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PROJECT DESCRIPTION
MSP JACKSON
COLD STORAGE BUILDING
3401 COOPER ST., JACKSON, MI 48201

BUILDING SECTION

DTMB PROJECT #	55125366.DPL
ARCH PROJECT #	KJM
DRAWN BY	DJS
DESIGNED BY	JCIENG BY
SS	

A-301
OF
12



BUILDING SECTION
 3/8" = 1'-0"

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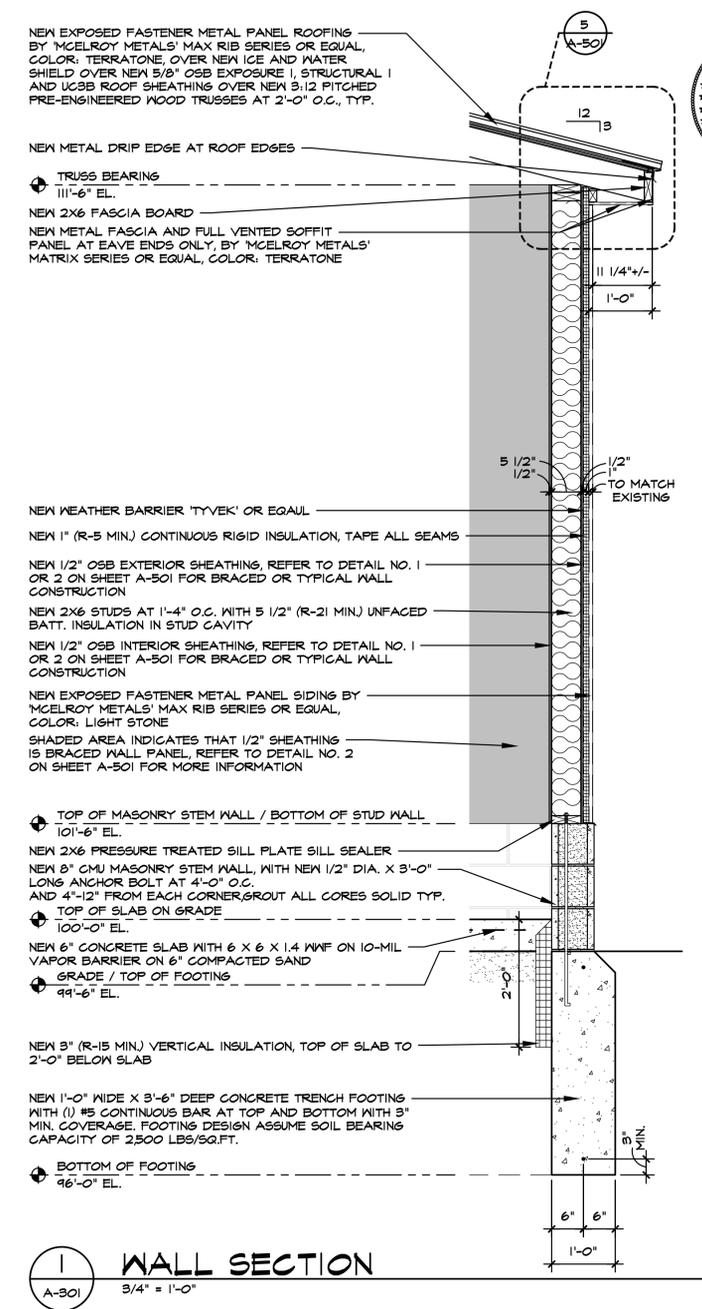
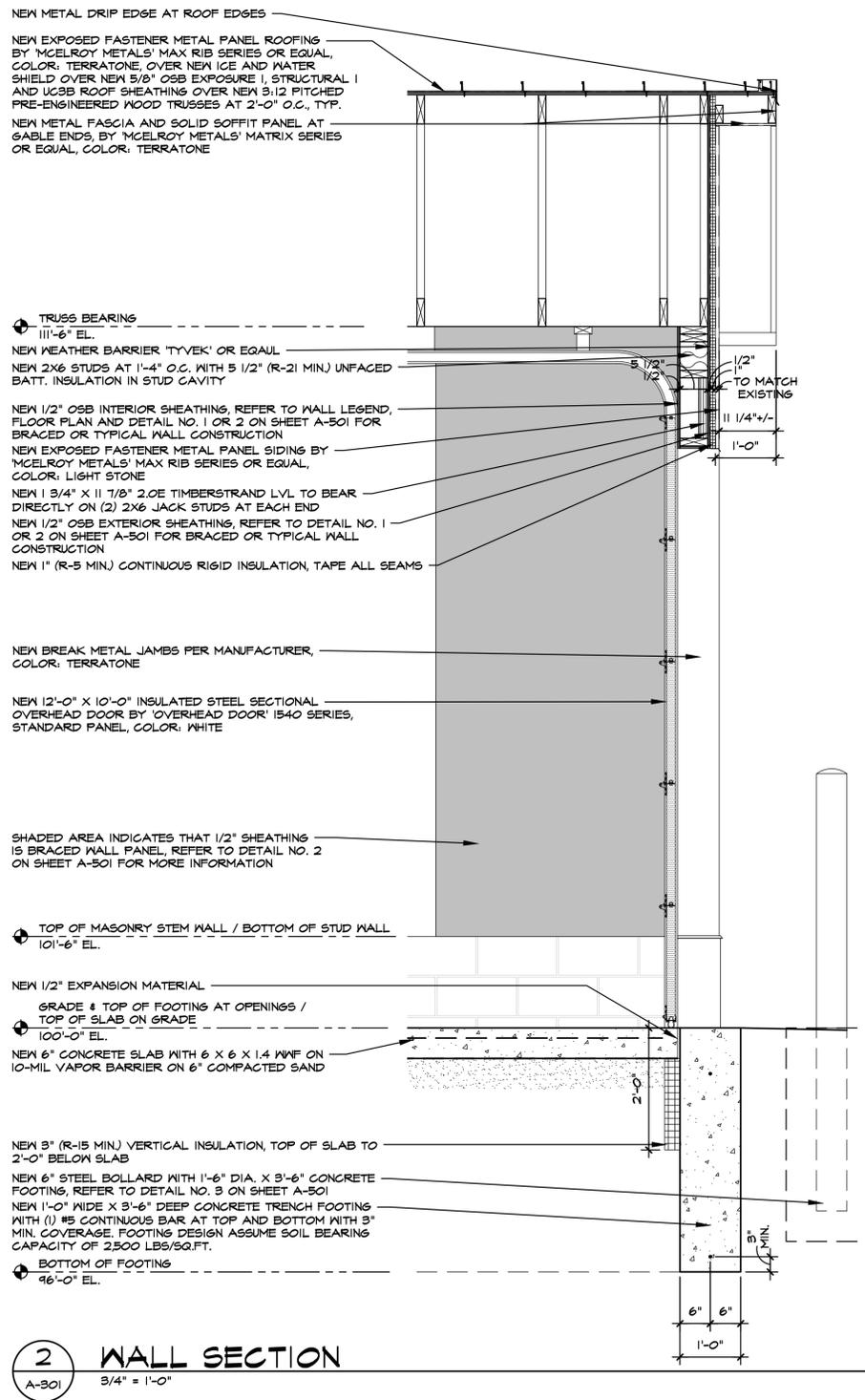
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DATE		Review

PROJECT DESCRIPTION
MSP JACKSON
COLD STORAGE BUILDING
 3401 COOPER ST., JACKSON, MI 48201

BUILDING SECTION

DTMB PROJECT #	55125266 DPL
ARCH PROJECT #	KJM
DRAWN BY	DJS
DESIGNED BY	JCIENG BY
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A-302
OF
12



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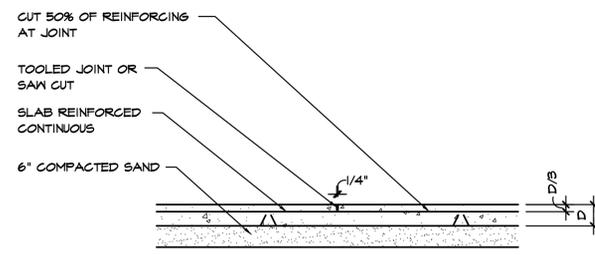
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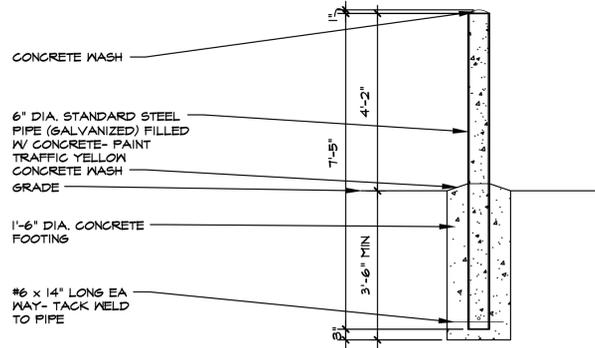
PROJECT DESCRIPTION
MSP JACKSON
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WALL SECTIONS

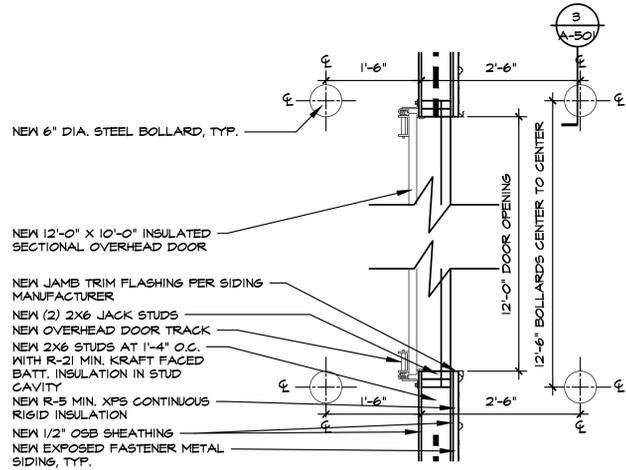
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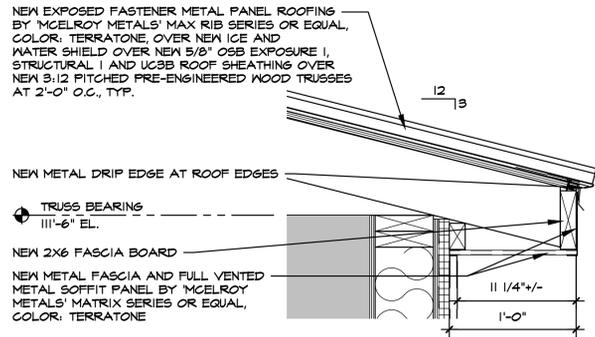
6 TYPICAL SAWN JOINT
A-102 3/4" = 1'-0"



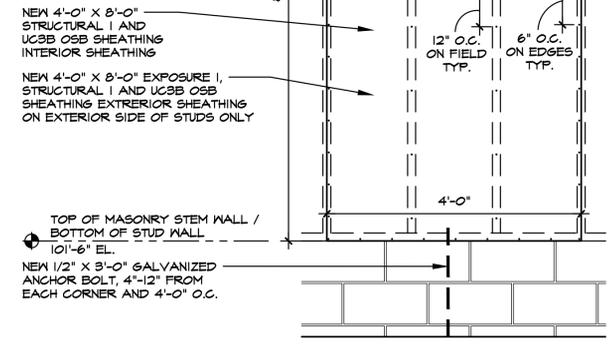
3 PIPE BOLLARD DETAIL
A-103 1/2" = 1'-0"



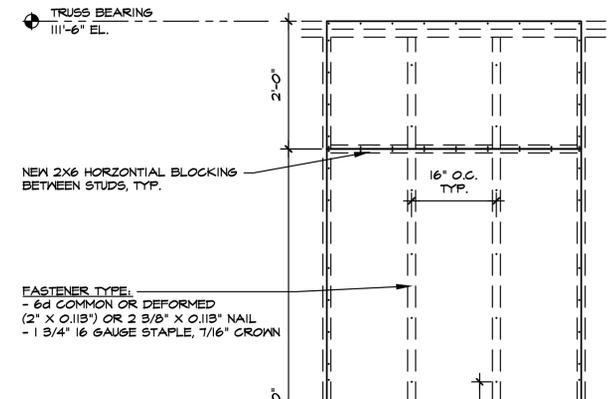
4 ENLARGED PLAN OF OVERHEAD DOOR
A-103 3/4" = 1'-0"



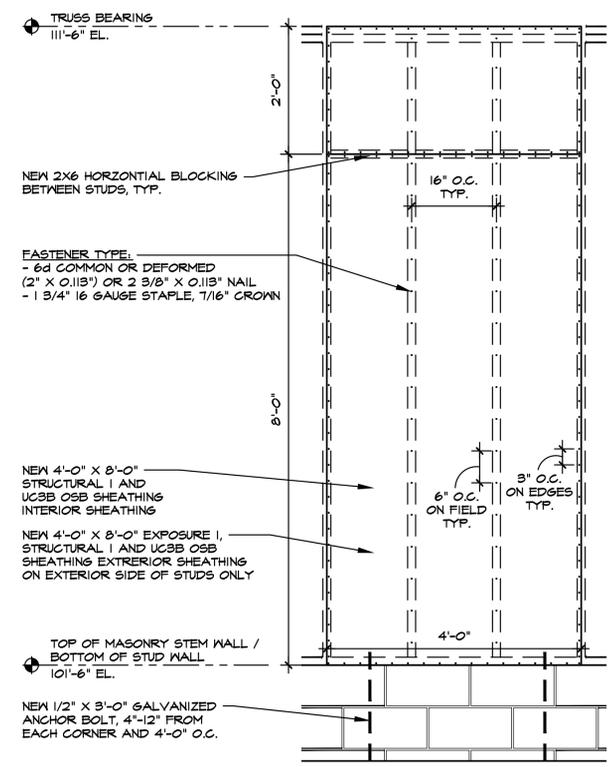
5 SOFFIT AND FASCIA DETAIL
A-401 1 1/2" = 1'-0"



1 TYPICAL WALL SHEATHING FASTENER PATTERN
A-103 3/4" = 1'-0"



2 BRACED WALL SHEATHING FASTENER PATTERN
A-103 3/4" = 1'-0"



3 BRACED WALL SHEATHING FASTENER PATTERN
A-103 3/4" = 1'-0"

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DETAILS

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ELECTRICAL SYMBOLS LEGEND

OUTLETS	FIXTURES	SERVICE and EQUIPMENT
⊕ SINGLE RECEPTACLE (120 VOLT)	□ LIGHT FIXTURE	⚡ TRANSIENT VOLTAGE SURGE SUPPRESSION
⊕ DUPLEX RECEPTACLE	▬ STRIP FIXTURE	⚡ VARIABLE FREQUENCY DRIVE
⊕ EMERGENCY RECEPTACLE	▬ EMERGENCY LIGHT FIXTURE	⚡ TRANSFORMER
⊕ DOUBLE DUPLEX RECEPTACLE	▬ IN-GRADE LIGHT FIXTURE	⚡ DISCONNECT SWITCH
⊕ FLUSH FLOOR BOX	⊙ SPOTLIGHT (number of heads shown)	⚡ MAGNETIC STARTER
⊕ SURFACE FLOOR BOX	⊙ EXIT SIGN (face & direction as shown)	⚡ COMB. STARTER
⊕ SPECIAL EQUIPMENT RECEPTACLE	⊕ WALL MOUNT LIGHT FIXTURE	⚡ PANELBOARD, SURFACE MOUNTED
⊕ TELEPHONE OUTLET	⊕ CEILING LIGHT FIXTURE	⚡ PANELBOARD, FLUSH MOUNTED
⊕ DATA OUTLET	▬ TRACK & FIXTURE	⚡ WEATHERHEAD
⊕ TELEPHONE / DATA OUTLET	▬ STREET TYPE POLE FIXTURE	⚡ UTILITY METER, AS REQUIRED
⊕ POWER POLE	▬ POLE MOUNTED LIGHT FIXTURE	⚡ DIGITAL EQUIPMENT METER, AS REQUIRED
⊕ JUNCTION BOX	▬ EXTERIOR WALL MOUNT LIGHT FIXTURE	⚡ CURRENT TRANSFORMERS
⊕ WALL JUNCTION BOX	▬ WALLPACK LIGHT FIXTURE	⚡ GENERATOR, KW SHOWN
⊕ PULL (JUNCTION) BOX	▬ SPECIAL PURPOSE LIGHT FIXTURE	⚡ TELEPHONE TERMINAL BOARD
⊕ UNDERFLOOR JUNCTION BOX	▬ HIGH BAY LIGHT FIXTURE	⚡ GROUND CONNECTION PER N.E.C.
⊕ CEILING MOUNTED WIFI	▬ EMERGENCY EGRESS LIGHT FIXTURE (number of heads shown)	⚡ WIREWAY
SWITCHES	▬ DOCK LIGHT FIXTURE	⚡ TRANSFER SWITCH
⊕ SINGLE-POLE SWITCH	CIRCUITRY and RACEWAYS	⚡ ENCLOSED CIRCUIT BREAKER
⊕ THREE-WAY SWITCH	▬ CONDUIT INSTALLED (by E.C.)	⚡ CAPACITOR
⊕ FOUR-WAY SWITCH	▬ CONDUIT INSTALLED (by others)	CONTROL
⊕ SWITCH WITH PILOT LIGHT	▬ CONDUIT STUB UP	⊕ THERMOSTAT
⊕ THERMAL OVERLOAD SWITCH	▬ CONDUIT STUB DOWN	⊕ HUMIDISTAT
⊕ MANUAL MOTOR SWITCH	▬ HOME RUN (with circuit numbers)	⊕ PHOTOCELL (voltage as required)
⊕ KEY SWITCH	▬ END OF CONDUIT RUN	⊕ TIME CLOCK (24 hour U.O.N.)
⊕ TIME SWITCH	▬ END OF CONDUIT RUN, CAP AND STAKE	⊕ PUSHBUTTON STATION (number of buttons indicated)
⊕ DIMMER SWITCH	▬ "CONDUIT RUN CONTINUES" INDICATION	⊕ CONTROL TRANSFORMER
MECHANICAL	▬ FLEXIBLE PIGTAILS/CONNECTIONS	⊕ LIGHTING CONTACTOR
⊕ SINGLE PHASE MOTOR	▬ WM WIREMOLD AS SPECIFIED	⊕ IRRIGATION CONTROLLER (120 volt xxVA connection by x/C)
⊕ THREE PHASE MOTOR	▬ PM PLUGMOLD AS SPECIFIED	⊕ WALL MOUNT DUAL TECHNOLOGY SENSOR
⊕ RESISTANCE HEATER, KW SHOWN	▬ BD BUS DUCT	⊕ OCCUPANCY SENSOR / PHOTOCELL
⊕ PIPE TRACE HEATER	▬ UFD UNDERFLOOR DUCT	⊕ ULTRASONIC SENSOR - 360° - 2 CIRCUIT
⊕ ELECTRIC UNIT HEATER	SOUND and SIGNAL	⊕ DUAL TECHNOLOGY SENSOR - 360° - 1000 SQ FT
⊕ ELECTRIC WATER HEATER	⊕ SPEAKER	⊕ DUAL TECHNOLOGY SENSOR - 360° - 500 SQ FT
NURSE CALL	⊕ WALL MOUNTED SPEAKER	⊕ SWITCH STYLE OCCUPANCY SENSOR
⊕ NURSE CALL CONTROLLER	⊕ WALL MOUNTED SPEAKER / CLOCK COMBO	⊕ POWER PACK
⊕ MASTER STATION	⊕ SINGLE FACE CLOCK	FIRE ALARM
⊕ EMERGENCY PULL STATION	⊕ DUAL FACE CLOCK	⊕ SMOKE DETECTOR
⊕ EMERGENCY PUSH STATION	⊕ VIDEO INPUT	⊕ HEAT DETECTOR
⊕ CODE BLUE STATION	⊕ AUDIO / VIDEO INPUT	⊕ DUCT SMOKE DETECTOR
⊕ PENDENT INTERFACE	⊕ BELL	⊕ DUCT SMOKE DETECTOR
⊕ BED / LIGHT INTERFACE	⊕ VOLUME CONTROL	⊕ HORN
⊕ SINGLE BED STATION	⊕ BUZZER	⊕ HORN & LIGHT
⊕ DUAL BED STATION	⊕ CHIME	⊕ SPEAKER
⊕ DOME LIGHT	⊕ TELEVISION OUTLET	⊕ SPEAKER & LIGHT
⊕ STAFF REGISTER STATION	⊕ MICROPHONE OUTLET	⊕ PULL STATION
⊕ STAFF STATION	⊕ INTERCOM OUTLET	⊕ FIRE ALARM CONTROL PANEL
⊕ DUTY STATION	⊕ CAMERA	⊕ ANNUNCIATOR PANEL
DESIGNATIONS	⊕ DOOR CONTACT	⊕ END OF LINE DEVICE
⊕ DEMOLITION NOTE	⊕ MOTION DETECTOR	⊕ REMOTE INDICATING LIGHT, WALL MTD.
⊕ PLAN NOTE	⊕ BEAM DETECTOR	⊕ REMOTE INDICATING LIGHT, CLG. MTD.
⊕ ADDENDUM NOTE	⊕ KEY PAD	⊕ MAGNETIC DOOR HOLDER
	⊕ SECURITY SYSTEM CONTROL PANEL	⊕ FIREFIGHTER COMMUNICATION JACK
	⊕ CCTV CONTROL PANEL	⊕ FLOW SWITCH (furnished by FP/C)
	⊕ CARD READER	⊕ TAMPER SWITCH (furnished by FP/C)
	⊕ STUDENT STATION	⊕ VISUAL ONLY UNIT
	⊕ ADMINISTRATION STATION	⊕ FIRE CONTROL POWER SUPPLY
	⊕ TEACHER STATION	⊕ MONITOR MODULE
	⊕ GLASS BREAK	⊕ CONTROL MODULE
		⊕ CARBON MONOXIDE DETECTOR

ABBREVIATIONS LEGEND

A	AMPS	GC	GENERAL CONTRACTOR	P	POLE
ACU	ABOVE COUNTER	GFI	GROUND FAULT INTERRUPTER	P.	PUMP
AFF	AIR CONDITIONING UNIT	GND	GROUND	PB	PULL BOX
AHJ	ABOVE FINISHED FLOOR	H.	HUMIDIFIER	PNL	PANEL
AHU	AUTHORITY HAVING JURISDICTION	HID	HIGH INTENSITY DISCHARGE	PRV.	POWER ROOF VENTILATOR
AIC	AIR HANDLING UNIT	HOA	HAND-OFF-AUTO SELECTOR SWITCH	PVC	POLY VINYL CHLORIDE
AS	AMPS INTERRUPTING CAPACITY	HP	HORSEPOWER	PWR	POWER
ATS	ABOVE SHELF	HR	HOUR	RECEPT	RECEPTACLE
	AUTOMATIC TRANSFER SWITCH	HVAC	HEATING/VENTILATING/AIR CONDITIONING	RGC	RIGID GALVANIZED STEEL CONDUIT
B.	BOILER	IG	ISOLATED GROUND	RTU.	ROOF TOP UNIT
BC	BELOW COUNTER	IMC	INTERMEDIATE METAL CONDUIT	SEC.	TRANSFORMER SECONDARY
BLDG	BUILDING	JB	JUNCTION BOX	SF.	SUPPLY FAN
CHLR.	CHILLER	LC	LIGHT CONTROL	SPEC	SPECIFICATIONS
CND (C)	CONDUIT	LTG	LIGHT	SW	SWITCH
CKT	CIRCUIT	LT FLEX	LIQUID TIGHT FLEXIBLE METAL CONDUIT	SWBD	SWITCHBOARD
CKT BKR	CIRCUIT BREAKER	MAX	MAXIMUM	TCC	TEMPERATURE CONTROL CONTRACTOR
CT.	COOLING TOWER	MC	MECHANICAL CONTRACTOR	TR	TAMPER PROOF RECEPTACLE
CU.	CONDENSING UNIT	MCC	MOTOR CONTROL CENTER	TS	TAMPER PROOF SWITCH
CUH.	CABINET UNIT HEATER	MIN.	MINIMUM	TYP	TYPICAL
DFU.	DUCT FURNACE	MLO	MAIN LUG ONLY	UF	UNDER FLOOR
DISC	DISCONNECT	MSB	MAIN SWITCH BOARD	UH.	UNIT HEATER
DWG	DRAWING	MTD	MOUNTED	UL	UNDERWRITERS' LABORATORIES, INC.
DWH.	DOMESTIC WATER HEATER	MTG	MOUNTING	UNO	UNLESS NOTED OTHERWISE
EBB.	ELECTRIC BASEBOARD	MUAU.	MAKE-UP AIR UNIT	V	VOLTS
EG	ELECTRICAL CONTRACTOR	NC	NORMALLY CLOSED	VL	VERIFY LOCATION WITH OWNER
EF.	EXHAUST FAN	NIC	NOT IN CONTRACT	W	WATTS
EM	EMERGENCY	NL	NIGHT LIGHT	W/O	WITHOUT
EMT	ELECTRICAL METALLIC TUBING	NO	NORMALLY OPEN	WP	WEATHER PROOF
EWC	ELECTRIC WATER COOLER	NTS	NOT TO SCALE	XFMR	TRANSFORMER
EXIST (E)	EXISTING				
FLA	FULL LOAD AMPS				
FLEX	FLEXIBLE CONDUIT				
FLR	FLOOR				
FLUOR	FLUORESCENT				
FSES	FOOD SERVICE EQUIP. SUPPLIER				
F/S	FIRE/SMOKE				
FU.	FURNACE				

GENERAL ELECTRICAL NOTES

- ALL WALL AND FLOOR PENETRATIONS ARE TO BE SEALED TO MAINTAIN ORIGINAL RATING.
- ALL CONDUITS TO BE FIELD ROUTED ALONG EXISTING PIPING AND STRUCTURAL STEEL.
- THE DIVISION 26 CONTRACTORS SHALL VISIT THE PROJECT AND DETERMINE THE EXACT EXTENT OF THE DEMOLITION WORK REQUIRED BEFORE BIDDING THE PROJECT.
- REMOVE ALL EXISTING OBSOLETE EXPOSED CONDUIT, WIRE AND UNUSED EQUIPMENT WHERE WORK IS BEING DONE EXCEPT ITEMS NOTED OTHERWISE.
- WHERE BUILDING SURFACES ARE DAMAGED BY THE REMOVAL OF OLD WORK, SURFACES SHALL BE PATCHED TO MATCH ADJACENT.
- EXISTING WORK WHICH IS PRESENTLY CONCEALED AND WHICH WILL REMAIN CONCEALED AND DOES NOT INTERFERE WITH ANY NEW WORK OF ANY TRADE NEED NOT BE REMOVED. HOWEVER, ALL CONDUIT SHALL BE CAPPED BELOW FINISH SURFACE AND THEN PATCHED TO MATCH, OR AS NOTED.
- EXISTING OPENINGS, WHICH ARE TO BE REUSED, SHALL BE MODIFIED OR ENLARGED TO SUIT THE NEW SYSTEMS AS REQUIRED, PROVIDE ALL REQUIRED CUTTING AND PATCHING.
- IF ASBESTOS IS PRESENT, IT WILL BE REMOVED OR RENDERED HARMLESS UNDER SEPARATE CONTRACT BY THE OWNER.
- THE DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING THE EXISTING WALLS TO MATCH THE ADJACENT SURFACES BEHIND ALL SURFACE MOUNTED EQUIPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CIRCUITING. MAXIMUM LIGHTING LOAD PER 20A-1P CIRCUIT IS 1400 WATTS. MAXIMUM RECEPTACLE LOAD PER 20A-1P CIRCUIT SHALL BE (8) DUPLEXES. SIZE MOTOR OR EQUIPMENT CIRCUITS 125% OF RATED LOAD.
- CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES AND LOADS PRIOR TO INSTALLING SERVICE TO EQUIPMENT.
- DRAWINGS ARE BASED ON EXISTING RECORD DOCUMENT AND CASUAL FIELD OBSERVATION. REPORT ANY DISCREPANCIES TO ENGINEER FOR CLARIFICATION.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION AND COMMENTS	BALLAST INFO	FIXTURE MOUNTING HEIGHT	LAMPS
LA	LITHONIA (OR APPROVED EQUAL)	CSS-L96-8000LM-MVOLT-40K-80CRI PROVIDE MOUNTING HARDWARE: ZACVH-M100	8' LED LINEAR STRIP FIXTURE.	-	12'-0" (SUSPENSION MOUNTED)	8000 LUMENS, 58.0W, 4000K
LAEM	LITHONIA (OR APPROVED EQUAL)	CSS-L96-8000LM-MVOLT-40K-80CRI-E10W PROVIDE MOUNTING HARDWARE: ZACVH-M100	8' LED LINEAR STRIP FIXTURE WITH 10W EMERGENCY BACKUP BATTERY.	-	12'-0" (SUSPENSION MOUNTED)	8000 LUMENS, 58.0W, 4000K
LB	LITHONIA (OR APPROVED EQUAL)	WDGE2-LED-P1-40K-80CRI-T3M-MVOLT-SRM-DBLXD	LED WALLPACK WITH TYPE 3 MEDIUM DISTRIBUTION, SURFACE MOUNTING BRACKET, & BLACK FINISH.	-	14'-0" (WALL MOUNTED)	1200 LUMENS, 19.0W, 4000K
XA	LITHONIA (OR APPROVED EQUAL)	LQHM-S-WRG-MVOLT-HO	LED (RED) EXIT SIGN WITH HIGH OUTPUT EMERGENCY BATTERY & REMOTE HEAD CAPABILITY.	-	9'-0" (WALL MOUNTED)	5.0W
XB	LITHONIA (OR APPROVED EQUAL)	ELMRW-LP220L-DOB1XD-SGL	EXTERIOR RATED, EMERGENCY LED REMOTE HEAD.	-	9'-0" (WALL MOUNTED)	-

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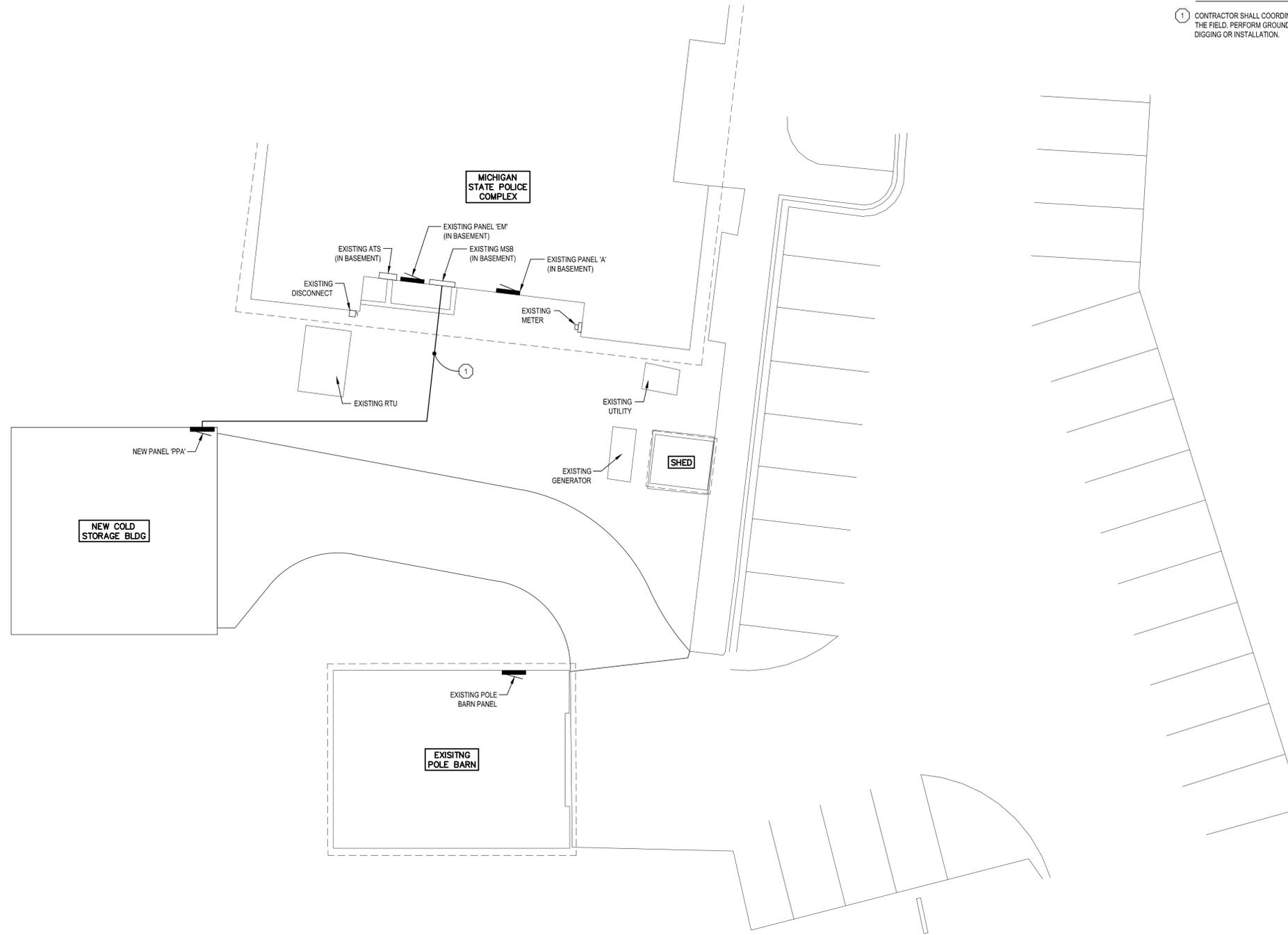
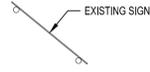
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03/09/2026	PHASE 500 90%		
01/30/2026	PHASE 500 50%		
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PROJECT DESCRIPTION
MICHIGAN STATE POLICE
JACKSON COLD STORAGE BUILDING
 3401 COOPER ST., JACKSON, MI 48201

ELECTRICAL SYMBOLS, NOTES,
 AND ABBREVIATIONS

PROJECT NO.: 551/25366.DPL	INDEX:	MATRIX PROJ. NO.: 250711.00	BMB	MJTC	JFS





SITE PLAN - POWER
 0 5 10 20
 SCALE: 1" = 10'-0"

ELECTRICAL KEY NOTES

- 1 CONTRACTOR SHALL COORDINATE LOCATION OF CONDUIT AND ROUTING IN THE FIELD. PERFORM GROUND PENETRATING RADAR SCAN PRIOR TO ANY DIGGING OR INSTALLATION.



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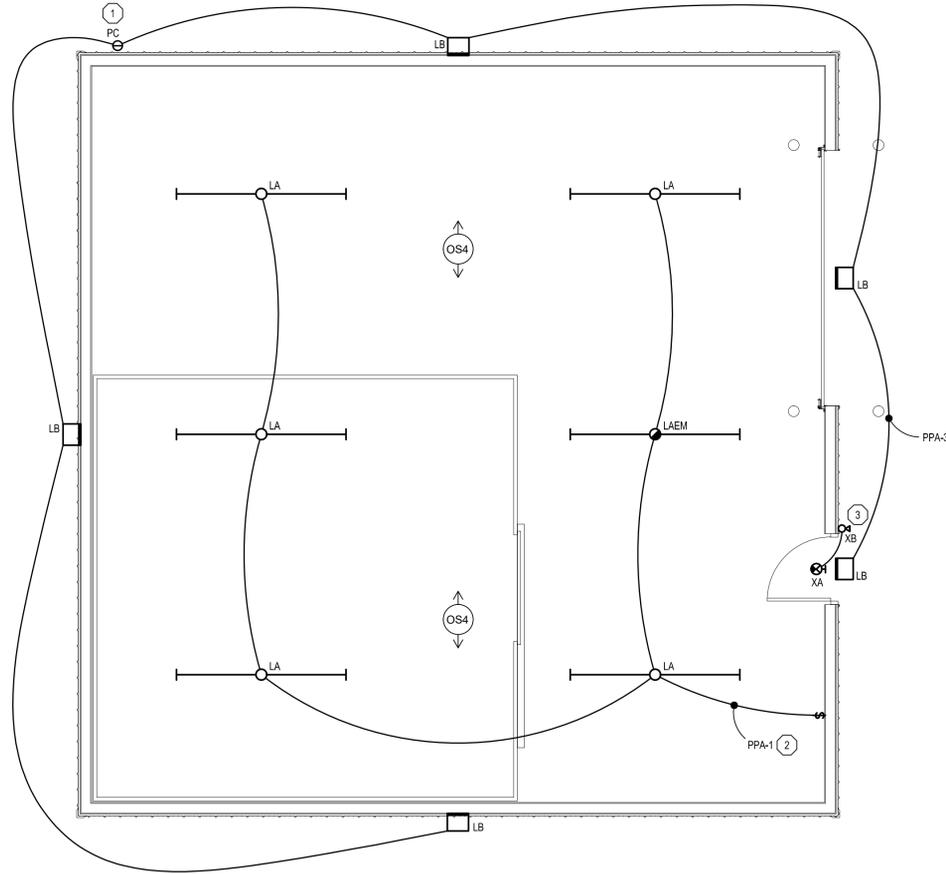
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DRAWN BY:	BMB
DESIGNED BY:	MJTC
JC/ENG BY:	JFS

ELECTRICAL SYMBOLS, NOTES,
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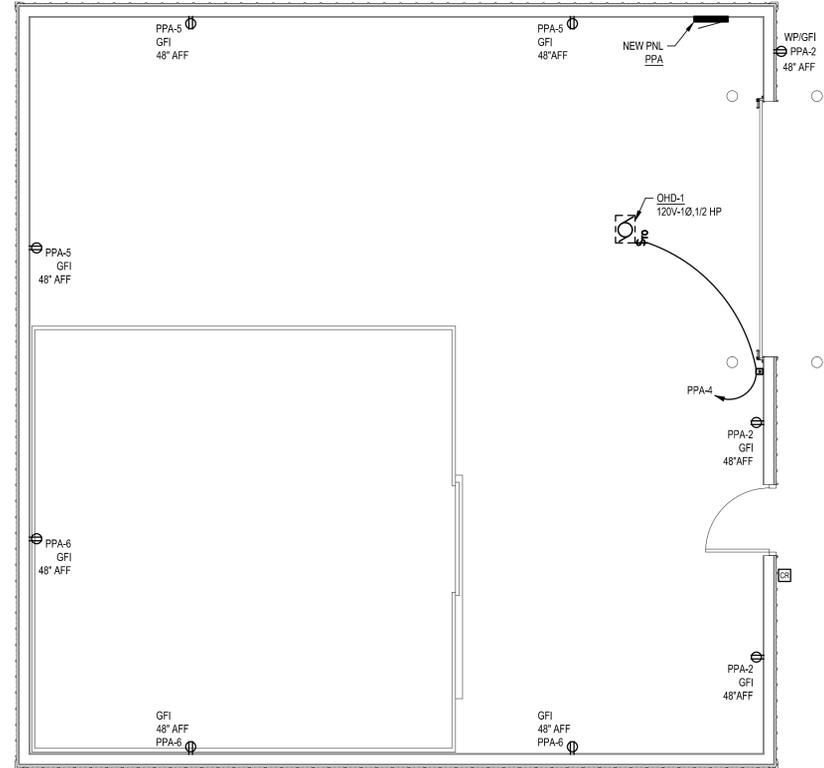
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COLD STORAGE FLOOR PLAN - LIGHTING
 SCALE: 1/4" = 1'-0"



COLD STORAGE FLOOR PLAN - POWER
 SCALE: 1/4" = 1'-0"

ELECTRICAL KEY NOTES

- 1 CONTRACTOR SHALL PROVIDE & INSTALL NEW PHOTOCELL TO SERVE NEW EXTERIOR LIGHTING CIRCUIT.
- 2 NEW INTERIOR LIGHTING CIRCUIT SHALL BE CONTROLLED AUTOMATICALLY VIA STAND-ALONE OCCUPANCY SENSORS. ALL LIGHTS ON NEW CIRCUIT SHALL ILLUMINATE WHEN BUILDING OCCUPANCY IS DETECTED.
- 3 PROVIDE EXTERIOR RATED REMOTE HEAD & CIRCUIT TO INTERIOR EXIT SIGN FOR EMERGENCY EGRESS LIGHTING.



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INDEX:	
MATRIX PROJ. NO.:	280711.00
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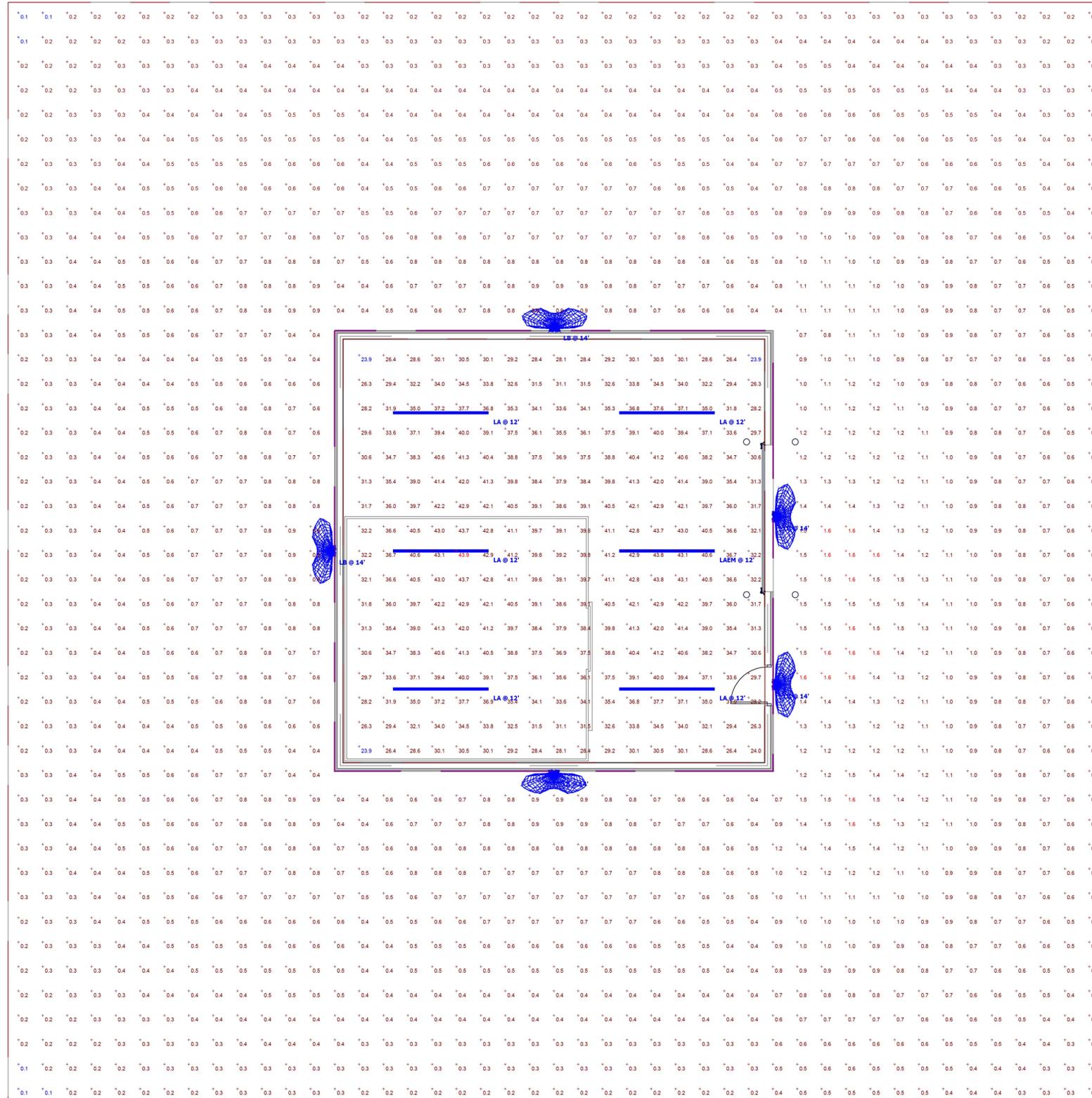
FLOOR PLAN - LIGHTING AND POWER

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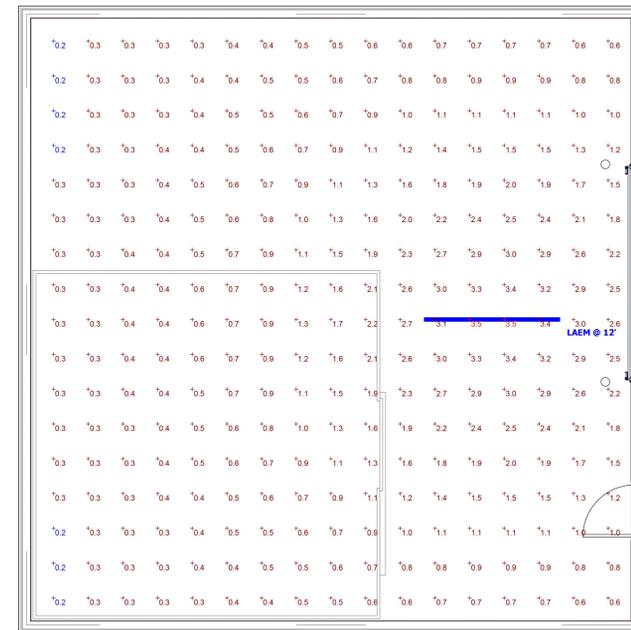
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Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
EXTERIOR CALC ZN	+	0.6 fc	1.6 fc	0.1 fc	16.0:1	6.0:1
INTERIOR CALC ZN	+	36.1 fc	43.9 fc	23.9 fc	1.8:1	1.5:1



PHOTOMETRIC FLOOR PLAN - LIGHTING - NEW
SCALE: 1" = 5'-0"

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
INTERIOR CALC ZN	+	1.1 fc	3.5 fc	0.2 fc	17.5:1	5.5:1



PHOTOMETRIC FLOOR PLAN - EMERGENCY LIGHTING - NEW
SCALE: 1" = 5'-0"



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PROJECT NO.: 551/25365.DPL	INDEX:
MATRIX PROJ. NO.: 250711.00	BMB
DRAWN BY:	MJTC
DESIGNED BY:	JCENG BY:

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EXISTING MAIN SWITCH BOARD (MSB)

LOCATION: MSP COMPLEX BASEMENT MOUNTING: SURFACE A.I.C. RATING: EXISTING
 SUPPLY FROM: UTILITY ENCLOSURE: NEMA 1 NOTES:

VOLTS: 208 /120 PHASE: 3 WIRE: 4 AMPS: 400A MAIN: MCB

BRKR	DESCRIPTION	CIRCUIT	PHASE LOADS			CIRCUIT	DESCRIPTION	BRKR
			VA	A	B			
100	EXISTING 2013 POLE BARN FEED	3920	4810			2	890	100
		2500		3800		1	1300	
		3200			4280	2	1080	
30	EXISTING VRH-1	2500	5000			4	2500	30
		2500		5000		3	2500	
		2500			5000	4	2500	
30	EXISTING VRH-3	2500	5000			6	2500	30
		2500		5000		5	2500	
		2500			5000	6	2500	
30	EXISTING VRH-5	2500	2500	2500		8		30
		2500			2500	7		
		2500				8		
200	EXISTING FEED TO EX PNL 'EM'	12000	12000			10		
		12000		12000		9		
		12000			12000	10		
		CONNECTED	29310	28300	28780	TOTAL CONNECTED LOAD		86390 VOLT-AMPS
		TOTAL CONNECTED	86390					239.79 AMPS

LOAD CALCULATIONS

LOAD TYPE	CONNECTED VA	DEMAND VA	N.E.C. SECTION
MECHANICAL	37500	37500	215.2(A)(1)
LIGHTING	0	0	215.2(A)(1)
RECEPTACLE	0	0	TABLE 220.44
KITCHEN EQUIPMENT	0	0	TABLE 220.56
OTHER	48890	48890	
TOTAL VA	86390	86390	
TOTAL AMPERAGE	239.79	239.79	

NEW PANEL "PPA"

LOCATION: NEW COLD STORAGE BLDG MOUNTING: SURFACE A.I.C. RATING: 14 kA
 SUPPLY FROM: MAIN SWITCH BOARD ENCLOSURE: NEMA 1 NOTES:

VOLTS: 208 /120 PHASE: 3 WIRE: 4 AMPS: 100 MAIN: MCB

BRKR	DESCRIPTION	CIRCUIT	PHASE LOADS			CIRCUIT	DESCRIPTION	BRKR
			VA	A	B			
15	INTERIOR LIGHTING	350	1	890		2	540	20
15	EXTERIOR LIGHTING	100	3		1300	4	1200	20
20	NORTH & WEST RECEPTACLES	540	5			6	540	20
20	SPARE		7	0		8		20
20	SPARE		9	0		10		20
20	SPARE		11		0	12		20
	SPACE		13	0		14		
	SPACE		15		0	16		
	SPACE		17			18		
	SPACE		19	0		20		
	SPACE		21		0	22		
	SPACE		23			24		
	SPACE		25	0		26		
	SPACE		27		0	28		
	SPACE		29			30		
		CONNECTED	890	1300	1080	TOTAL CONNECTED LOAD		3270 VOLT-AMPS
		TOTAL CONNECTED	3270					9.08 AMPS

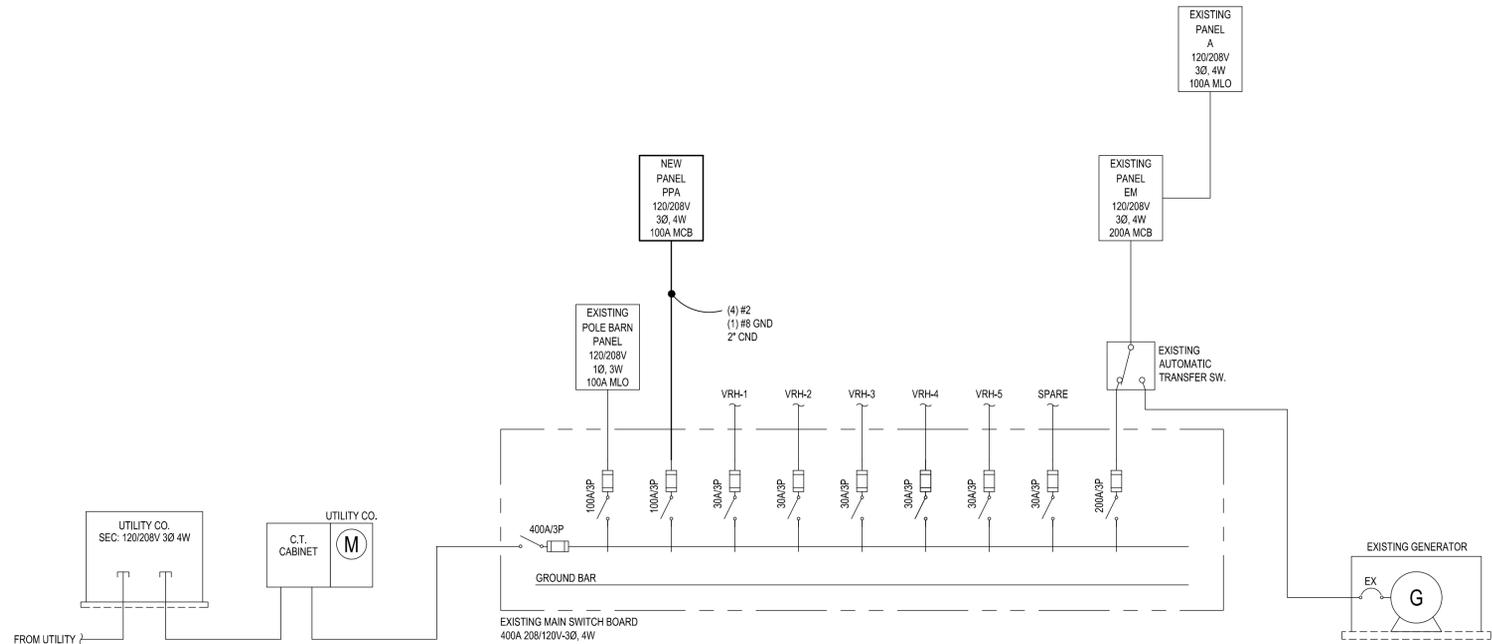
LOAD CALCULATIONS

LOAD TYPE	CONNECTED VA	DEMAND VA	N.E.C. SECTION
MECHANICAL	0	0	215.2(A)(1)
LIGHTING	450	56.3	215.2(A)(1)
RECEPTACLE	1620	1620	TABLE 220.44
KITCHEN EQUIPMENT	0	0	TABLE 220.56
OTHER	1200	1200	
TOTAL VA	3270	3383	
TOTAL AMPERAGE	9.08	9.39	

LOAD SUMMARY - EX MSB

VOLTS: 120/208 PHASE: 3 WIRE: 4 PANEL SIZE: 400A

LOAD DESCRIPTION	CONNECTED VA
NEW PANEL PPA	3270
TOTAL ADDED VA:	
	3270.00
TOTAL ADDED AMPS:	
	9.08
PERCENTAGE OF SERVICE ADDED	
	2.27%



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ELECTRICAL RISER DIAGRAM
 AND PANEL SCHEDULES

PROJECT NO.: 551/25366.DPL	INDEX:	DESIGNED BY: JFC
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