

PORTAGE - WEST MIDDLE SCHOOL - STORAGE BARN

PORTAGE PUBLIC SCHOOLS Portage, Michigan CONSTRUCTION DOCUMENTS

DESIGN TEAM

ARCHITECT/ENGINEER

TowerPinkster
Architecture · Engineering · Interiors

242 E. KALAMAZOO AVE, SUITE 100
KALAMAZOO, MICHIGAN 49007
PHONE: 269.343.6133
FAX: 269.343.6633

4 EAST FULTON STREET, SUITE 200
GRAND RAPIDS, MICHIGAN 49503
PHONE: 616.456.9944
FAX: 616.456.5936

CIVIL CONSULTANT

5725 VENTURE PARK DRIVE, SUITE A
KALAMAZOO, MI 49009
PHONE: 269.250.5991

REFERENCED CODES

BUILDING: 2015 MICHIGAN BUILDING CODE AND 2012 NFPA 101 LIFE SAFETY CODE
ENERGY: 2015 MICHIGAN ENERGY CODE
PLUMBING: 2015 MICHIGAN PLUMBING CODE
MECHANICAL: 2015 MICHIGAN MECHANICAL CODE
FUEL GAS: (IFGC) 2015 INTERNATIONAL FUEL GAS CODE
ELECTRICAL: 2017 NATIONAL ELECTRICAL CODE WITH MICHIGAN AMENDMENTS
BARRIER-FREE: 2015 MICHIGAN BUILDING CODE AND 2009 ICC & C A117.1
USE GROUP: S-1
CONSTRUCTION TYPE: TYPE VB
AUTOMATIC SPRINKLERS: NON SPRINKLED

PROJECT AREA

TOTAL FINISHED PROJECT: 2,093 SQ. FT.

DRAWING INDEX

GENERAL

G 001 COVER SHEET
G 101 FIRST FLOOR CODE COMPLIANCE PLAN, TYPICAL SYMBOLS AND GENERAL NOTES

CIVIL

C 100 SITE PLAN

ARCHITECTURAL

A 100 FOUNDATION AND FRAMING PLAN
A 101 FIRST FLOOR PLAN, ROOF FRAMING PLAN AND DOOR SCHEDULE
A 301 EXTERIOR ELEVATIONS, BUILDING SECTIONS, 3D VIEW AND WALL SECTIONS

ELECTRICAL

E 101 FIRST FLOOR POWER PLAN

SITE ADDRESS

PORTAGE PUBLIC SCHOOLS
7145 MOORSBRIDGE RD
PORTAGE, MI ZIP 49024

TowerPinkster
Architecture · Engineering · Interiors

ISSUED FOR _____ DATE _____

PROJECT TITLE
PORTAGE - WEST
MIDDLE SCHOOL -
STORAGE BARN

OWNER
PORTAGE PUBLIC
SCHOOLS
Portage, Michigan

SHEET TITLE
COVER SHEET

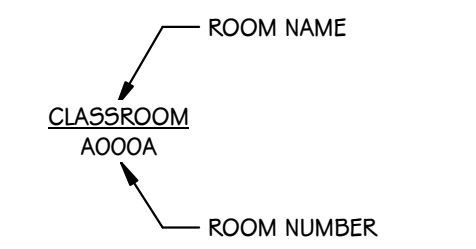
SHEET NUMBER
G 001
19-220.00
DATE
MAY 18, 2020

TowerPinkster
Architecture · Engineering · Interiors

4 East Fulton Street, Suite 200
Grand Rapids, Michigan 49503
616.456.9944 phone 616.456.5936 fax
242 East Kalamazoo Avenue, Suite 100
Kalamazoo, Michigan 49007-5828
269.343.6633 fax
www.towerpinkster.com
© 2020 ALL RIGHTS RESERVED

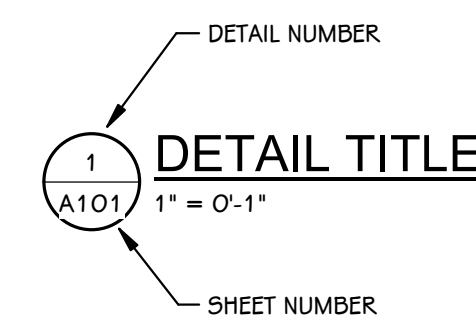
TYPICAL SYMBOLS & REFERENCES

ROOM IDENTIFICATION TAG

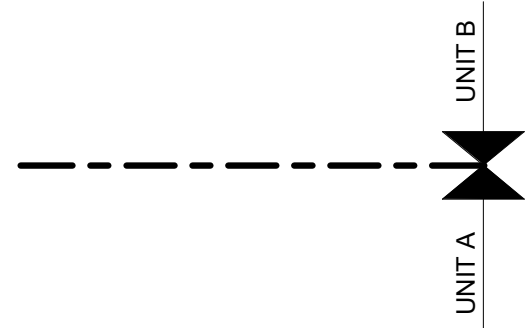


NOTE: ROOM NAMES AND NUMBERS ON PLANS ARE FOR CONSTRUCTION PURPOSES ONLY. COORDINATE WITH OWNER REGARDING PROPOSED NUMBERS FOR ALL SIGNAGE, SCHEDULE AND PANEL DESIGNATIONS.

DETAIL TITLE

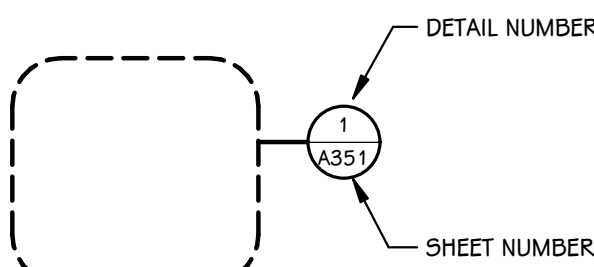


UNIT MATCHLINES

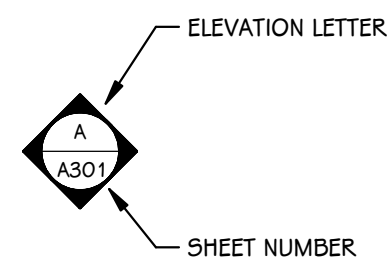


TYPICAL NOTATION SYMBOLS

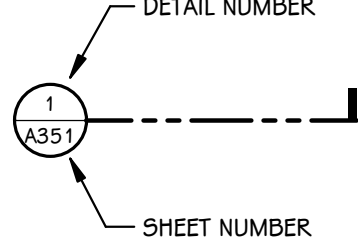
CALLOUT REFERENCE BUBBLE



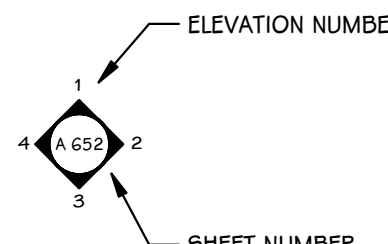
EXTERIOR ELEVATION REFERENCE BUBBLE



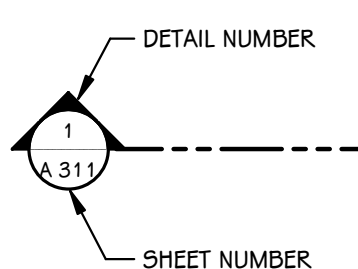
DETAIL REFERENCE BUBBLE



INTERIOR ELEVATION REFERENCE BUBBLE

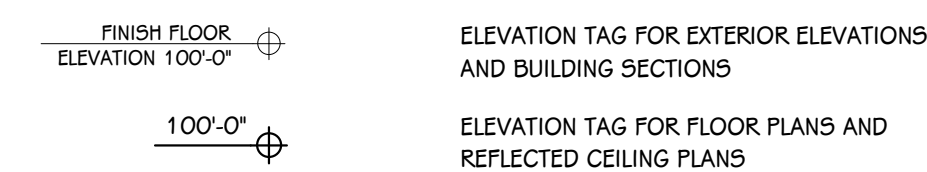


BUILDING SECTION REFERENCE BUBBLE

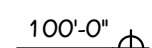


ELEVATION AND SECTION REFERENCE TOOLS

ELEVATION TAG - EXISTING

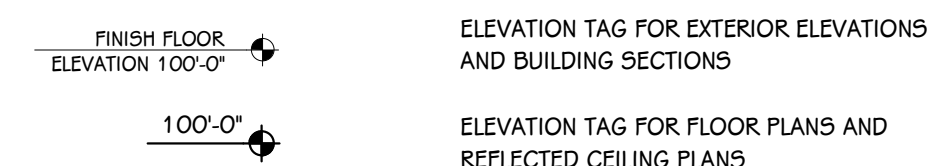


ELEVATION TAG FOR EXTERIOR ELEVATIONS AND BUILDING SECTIONS

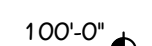


ELEVATION TAG FOR FLOOR PLANS AND REFLECTED CEILING PLANS

ELEVATION TAG - NEW

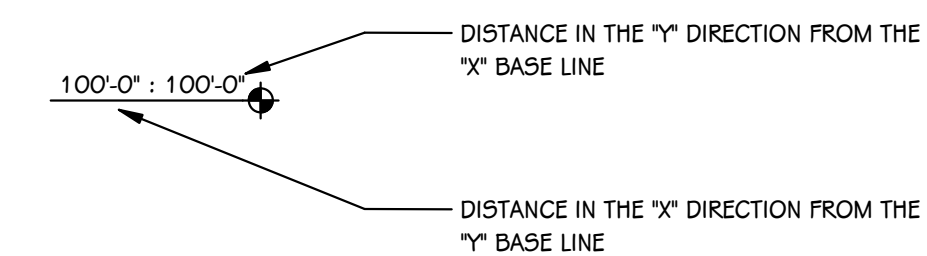


ELEVATION TAG FOR EXTERIOR ELEVATIONS AND BUILDING SECTIONS

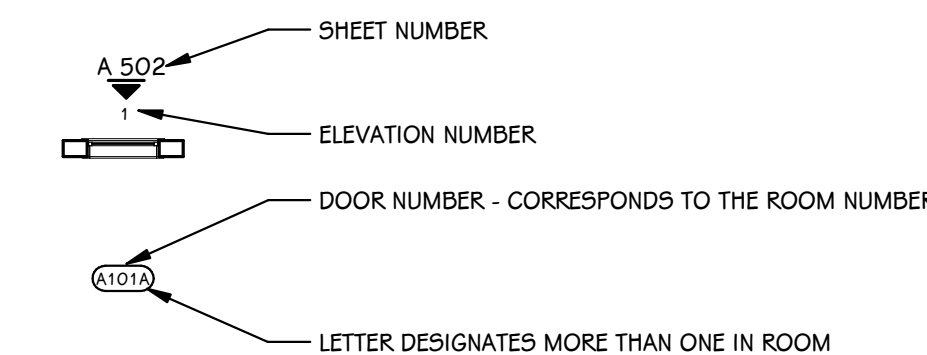


ELEVATION TAG FOR FLOOR PLANS AND REFLECTED CEILING PLANS

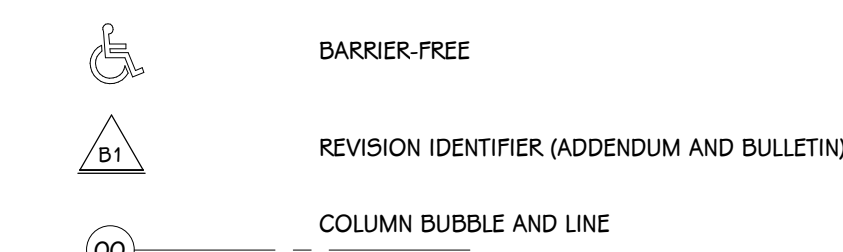
WORKING POINT LAYOUT TAG



BORROWED LIGHT AND DOOR IDENTIFICATION

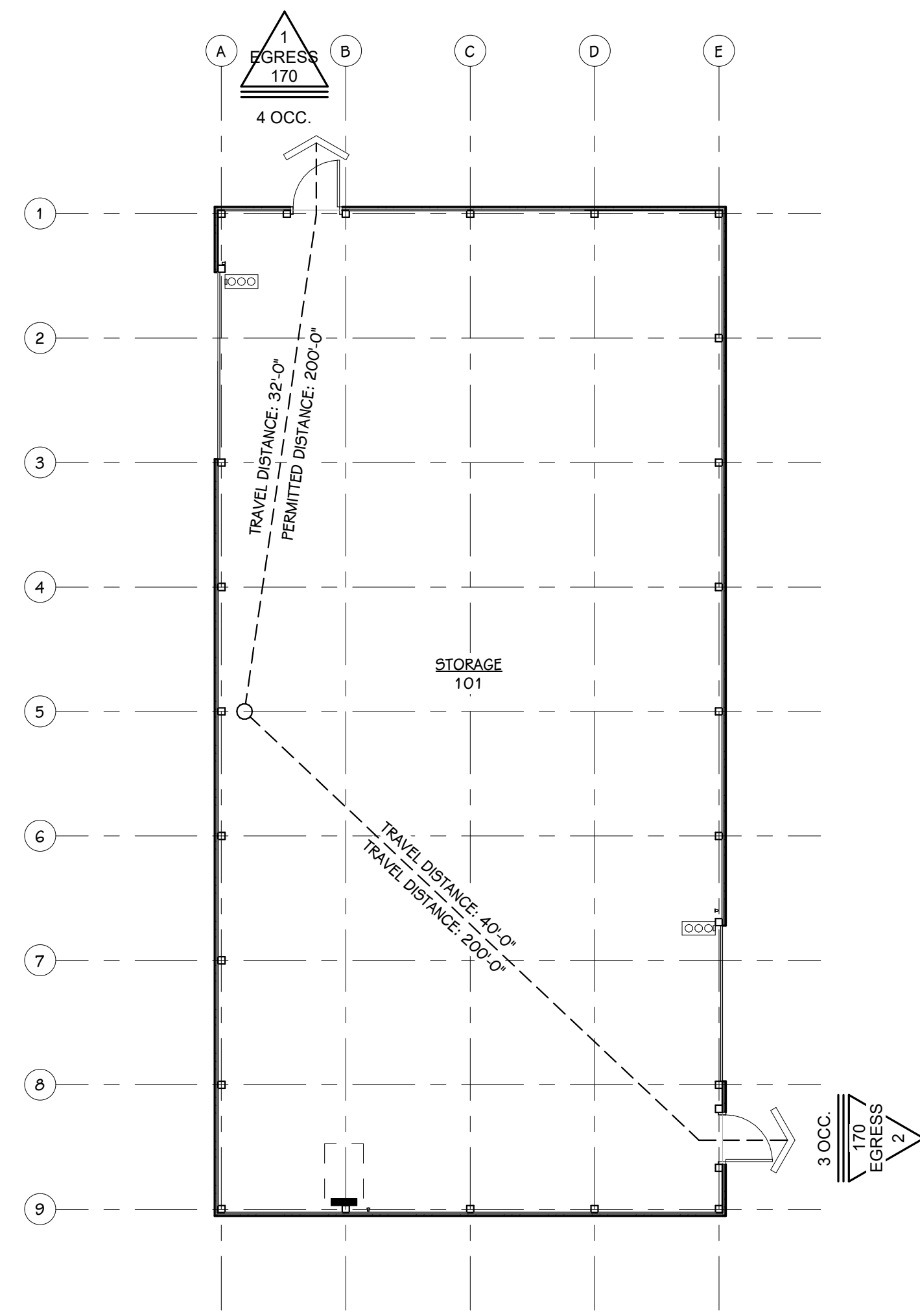


SYMBOLS



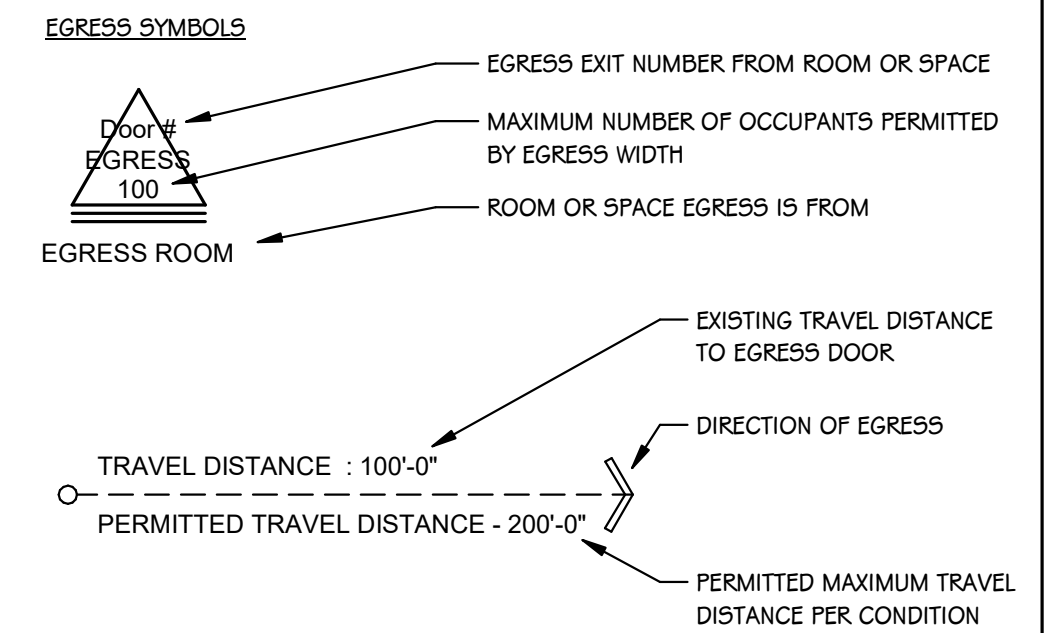
GENERAL NOTES - ARCHITECTURAL

1. THE OWNER RESERVES THE RIGHT TO REMOVE ANY ITEM FROM THE PROJECT PRIOR TO COMMENCEMENT OF CONTRACTED DEMOLITION WORK.
2. ALL EXISTING CONDITIONS SHOULD BE FIELD VERIFIED BEFORE WORK BEGINS.
3. DIMENSIONS GIVEN ARE ACTUAL AND ARE TO THE FACE OF MASONRY UNITS OR TO THE FACE OF STUD FRAMING, UNLESS NOTED OTHERWISE.
4. DETAILS SHOWN ILLUSTRATE DESIGN INTENT, NOT ALL POSSIBLE CONDITIONS. FOR CONDITIONS NOT SHOWN, USE DETAILS CLOSEST TO CONDITION IN QUESTION.
5. EXTEND ALL INTERIOR WALL PARTITIONS FROM FLOOR TO STRUCTURE/DECK ABOVE UNLESS NOTED OR DETAILED OTHERWISE.
6. WITHIN BUILDING INTERIOR PROVIDE BULLNOSE BLOCK IN CMU WALL ASSEMBLIES AT ALL EXPOSED OUTSIDE CORNERS, INCLUDING WINDOW AND DOOR JAMBS, UNLESS NOTED OR DETAILED OTHERWISE. PROVIDE SQUARE OUTSIDE CORNERS AT ALL LOCATIONS FINISHED WITH WALL TILE, REFER TO FINISH PLANS (A600 SHEETS) FOR LOCATIONS.
7. TOOTH-IN MASONRY AT NEW OPENINGS IN EXISTING WALLS.
8. TOOTH-IN NEW MASONRY INFILL INTO EXISTING OPENINGS AT ALL BULLNOSE BLOCK LOCATIONS.
9. STUD WALLS SPANNING OVER 12'-0" IN HEIGHT SHALL BE A MINIMUM OF 20 GAGE.
10. STUD WALL SUPPORTING WALL CABINETS SHALL BE A MINIMUM OF 20 GAGE.
11. DOORS ARE TO BE 4" FROM CORNER OF ROOM, UNLESS NOTED OR DIMENSIONED OTHERWISE.
12. FIRESTOP ALL INTERCONNECTIONS BETWEEN VERTICAL AND HORIZONTAL SPACES AND CONCEALED WALL SPACES AT CEILING, FLOOR AND ROOF LEVELS.
13. FIRESEAL ALL PENETRATIONS, SUCH AS, PIPES, DUCTS, CONDUITS, ETC. THROUGH FIRE AND/OR SMOKE RATED ASSEMBLIES.
14. FOR CONTROL JOINT (C.J.) LOCATIONS REFER TO EXTERIOR ELEVATIONS AND/OR FLOOR PLANS.
15. PAINT ALL ELECTRICAL PANEL COVERS AND ACCESS PANELS TO MATCH ADJACENT FINISHES. USING OIL-BASED PAINT, NOT LATEX WALL PAINT.
16. PROVIDE WOOD BLOCKING IN WALLS THAT REQUIRE WALL MOUNTED EQUIPMENT OR ACCESSORIES. COORDINATE WITH EQUIPMENT OR ACCESSORY MANUFACTURER.
17. PROVIDE ALL ASSOCIATED CURBS FOR ROOF TOP EQUIPMENT AND MECHANICAL ROOF TOP UNITS. LARGE VOIDS BELOW THE AIR HANDLING UNITS SHALL BE FILLED WITH INSULATION AS SPECIFIED FOR NOISE CONTROL.
18. ALL EXISTING ROOF TOP PENETRATIONS BEING REMOVED REQUIRE ROOF PATCHING TO MATCH EXISTING ADJACENT.



FIRST FLOOR CODE COMPLIANCE PLAN
1/8" = 1'-0"

CODE COMPLIANCE KEY



FIRE-RATING KEY

DESIGNATION	PARTITION RATING	PRIORITY
[Symbol]	3 HOUR	1
[Symbol]	2 HOUR FIRE/SMOKE	2
[Symbol]	2 HOUR	3
[Symbol]	1 HOUR FIRE/SMOKE	4
[Symbol]	1 HOUR	5
[Symbol]	SMOKE RESISTANT	6

1. ALL PENETRATIONS THROUGH A FIRE OR SMOKE RATED PARTITION SHOULD BE SEALED WITH AN APPROVED U.L. RATED PRODUCT.
 2. THE TOPS OF ALL FIRE RATED PARTITIONS SHALL BE SEALED TO THE CONTINUOUS STRUCTURE ABOVE WITH A U.L. RATED SYSTEM OR ASSEMBLY.
 3. WOOD BLOCKING IN FIRE-RATED PARTITIONS SHALL BE NON-COMBUSTIBLE TREATED WOOD.
 4. REFER TO SPECIFICATION U.L. RATING INFORMATION.
 5. FIRE-RATED WALLS ENDING INTO AN ACOUSTICAL DECK MUST HAVE THE FLUTES FILLED, REFER TO TOP OF WALL DETAIL AT ACOUSTIC DECK SHOWN ON THIS SHEET.
- FOR MASONRY WALLS THE MASON SHALL FILL VOIDS AND FIRE SPRAY WITH UL LISTED MATERIAL.
 - FOR STUD WALLS USE FIRE SAFING AND FIRE CAULK.

Michigan Building Code - 2015 Edition

- Section 311.2: The storage room to be classified as Moderate-hazard Storage Group S-1. (Must comply with the maximum allowable quantities of hazardous materials listed in Table 307.1 (1).)
- Table 504.3: Allowable Height: Occupancy S-1, Type V-S: 40 feet
- Table 504.4: Allowable Stories: Occupancy S-1, Type V-S: 1 Story
- Section 506.2: Allowable Area: Occupancy S-1, Type V-S: 9,000 sf
- Section 506.3: A frontage increase is not required. The building area complies with the allowable area in Table 506.2.
- Section 602.2: Table 601 - Construction Type V-B (Non-sprinklered - Single Story) Construction in which structural elements, and exterior walls, and interior walls are of any materials permitted by this code.
- Table 1004.1.2: Occupant Load Factors
Storage Areas: 300 gross
Calculated Occupancies
Storage (2,093 gross sq. ft.) - 7 Occupants
- Section 1005.3: Egress Capacity Factors
1005.3.2 All others = 0.2 inches per Occupant
- Table 1006.2.1: Maximum Common Path of Travel shall not exceed: Storage: 100 ft without sprinkler system and occupant load is less than 30 occupants
- Section 1007.1.1: Where two exits, exit access doorways, exit access stairways or ramps, or any combination thereof, are required from any portion of the exit access, they shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between them.
- Table 1017.2: Exit Access Travel Distance shall not exceed:
Storage: 200 feet

TOWER PINKSTER
Architecture · Engineering · Interiors

4 East Fulton Street, Suite 200
Grand Rapids, Michigan 49503
616.456.8944 phone 616.456.9536 fax

242 East Kalamazoo Avenue, Suite 100
Kalamazoo, Michigan 49007-8828
269.343.6633 fax

© 2020 ALL RIGHTS RESERVED

PROJECT TITLE
PORTAGE PUBLIC MIDDLE SCHOOL - STORAGE BARN

OWNER
PORTAGE PUBLIC SCHOOLS

Portage, Michigan

ISSUED FOR
DATE

SHEET TITLE
FIRST FLOOR CODE COMPLIANCE PLAN, TYPICAL SYMBOLS AND GENERAL NOTES

DATE
MAY 18, 2020

SHEET NUMBER
G 101

19-220.00

SITE PLAN NOTES

- A) 6" CONCRETE PAVEMENT (SEE DETAIL THIS SHEET)
- B) CONNECT ELECTRIC SERVICE AND METER, COORDINATE WITH UTILITY PROVIDER
- C) 10' OVERHEAD DOOR
- D) DOWNSPOUT
- E) MAN DOOR

GRADING NOTES

- ALL WORK SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS, RULES AND REGULATIONS IN FORCE AT TIME OF CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, PERMIT COSTS, TAP FEES, METER DEPOSITS, PERMANENT UTILITY APPLICATIONS, BONDS, AND OTHER FEES REQUIRED FOR PROPOSED WORK. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO THOSE REQUIRED BY THE CITY OF PORTAGE.
- CONTACT "811" AT 1-800-482-7171 FOR LOCATION OF UNDERGROUND UTILITIES A MINIMUM OF 48 HOURS BEFORE COMMENCING EXCAVATION WORK. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO ARE NOT PART OF THE "811" ALERT SYSTEM. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
- DEMOLISH & REMOVE ALL EXISTING SITE FEATURES AS REQUIRED.
- MATCH EXISTING GRADES AROUND PERIMETER WITH SLOPES AS SHOWN.
- ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT GRADES AT EDGE OF METAL (EOM) UNLESS OTHERWISE NOTED.
- ALL SOIL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO MASS GRADING.
- ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND GEOTECHNICAL REPORT.
- ALL EXISTING ELEVATIONS ARE TO BE VERIFIED AND ACCEPTED AS SHOWN PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID TRACKING SOIL ONTO ADJACENT ROADWAYS. CONTRACTOR SHALL SWEEP IMMEDIATELY IF OCCURS.
- ANY DISTURBED AREA WHICH WILL BE LEFT UNWORKED 15 DAYS OR LONGER MUST BE SEEDED TO ESTABLISH VEGETATION FOR TEMPORARY STABILIZATION. BASINS TO BE SEEDED AND MULCH BLANKETS APPLIED IMMEDIATELY TO PROVIDE A STABLE BASE AND AVOID EXCESSIVE EROSION.

GENERAL CONSTRUCTION NOTES

- ALL WORK SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS, RULES AND REGULATIONS IN FORCE AT TIME OF CONSTRUCTION.
- ALL PLUMBING WORK SHALL BE PERFORMED BY A STATE OF MICHIGAN LICENSED PLUMBER ACCORDING TO THE INTERNATIONAL PLUMBING CODE AS MODIFIED BY THE STATE OF MICHIGAN AND LOCAL HEALTH DEPARTMENT. FURNISH AND INSTALL ALL MATERIALS AND LABOR TO PROVIDE A FULL WORKING SYSTEM.
- ALL WORK SHALL CONFORM TO THE MICHIGAN HANDICAPPED ACCESSIBILITY CODE AND THE AMERICANS WITH DISABILITIES ACT.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, PERMIT COSTS, TAP FEES, METER DEPOSITS, PERMANENT UTILITY APPLICATIONS, BONDS, AND OTHER FEES REQUIRED FOR PROPOSED WORK.
- CONTACT "MISS DIG" AT 1-800-482-7171 FOR LOCATION OF UNDERGROUND UTILITIES A MINIMUM OF 48 HOURS BEFORE COMMENCING EXCAVATION WORK. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO ARE NOT PART OF THE "MISS DIG" ALERT SYSTEM. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
- MANHOLE AND CATCH BASIN STRUCTURES SHALL BE PRECAST AND HAVE A MAXIMUM OF 2 ADJUSTING RINGS FOR FINISH GRADE ADJUSTMENT.
- DEMOLISH & REMOVE ALL EXISTING SITE FEATURES AS REQUIRED.

SITE MATERIALS & CONSTRUCTION NOTES:

- 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.
- REMOVE ALL SUBGRADE GRADE MATERIAL THAT MAY BE SOFTENED BY RAINS, FREEZING, OR CONSTRUCTION TRAFFIC, ETC. AND REPLACE WITH COMPACTED GRANULAR FILL.
- THE CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVERNIGHT AS REQUIRED.
- EXTERIOR CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI AND SHALL HAVE LIMESTONE AGGREGATE AND SHALL HAVE 4 - 6% AIR ENTRAINMENT WITH A BROOM FINISH.
- EXPANSION JOINTS IN CONCRETE PAVEMENT AND WALLS SHALL BE 1/2" ASPHALT IMPREGNATED FULL DEPTH 40" O.C. MAXIMUM & AT SIDEWALK INTERSECTIONS. CRACK CONTROL SCORING AT SIDEWALK WIDTH DIMENSION AND @ 10'-0" O.C. IN DRIVES.

GENERAL NOTES

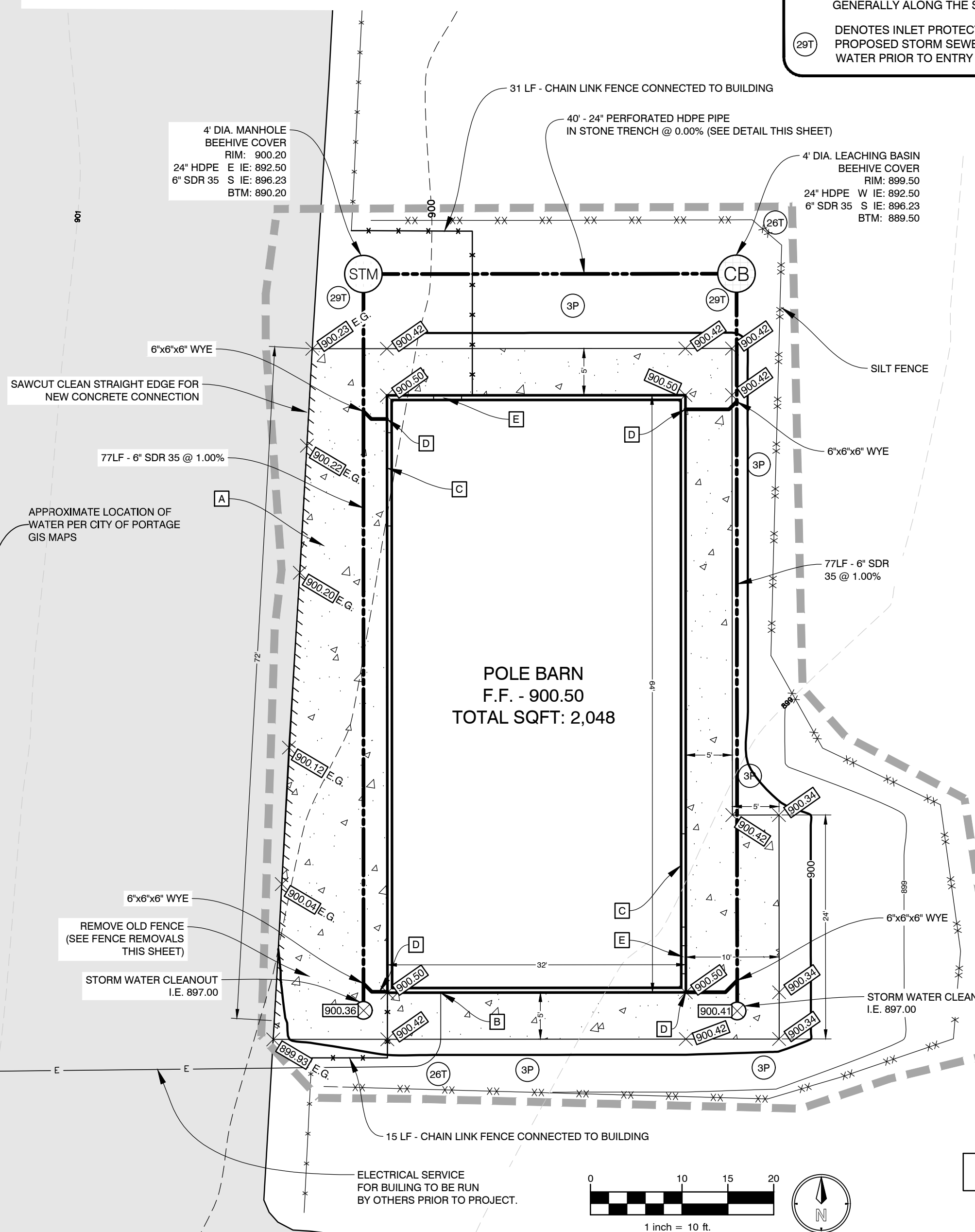
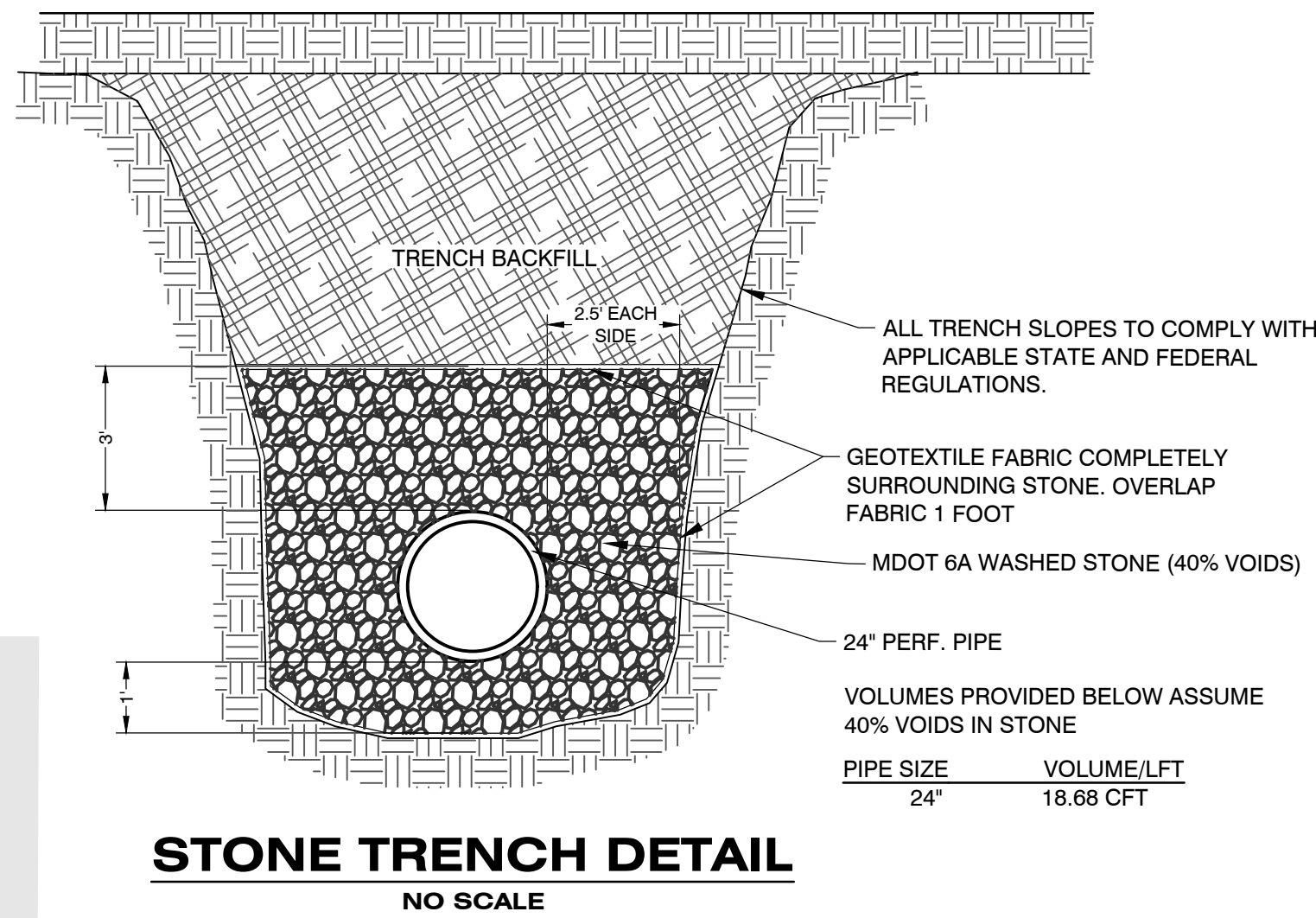
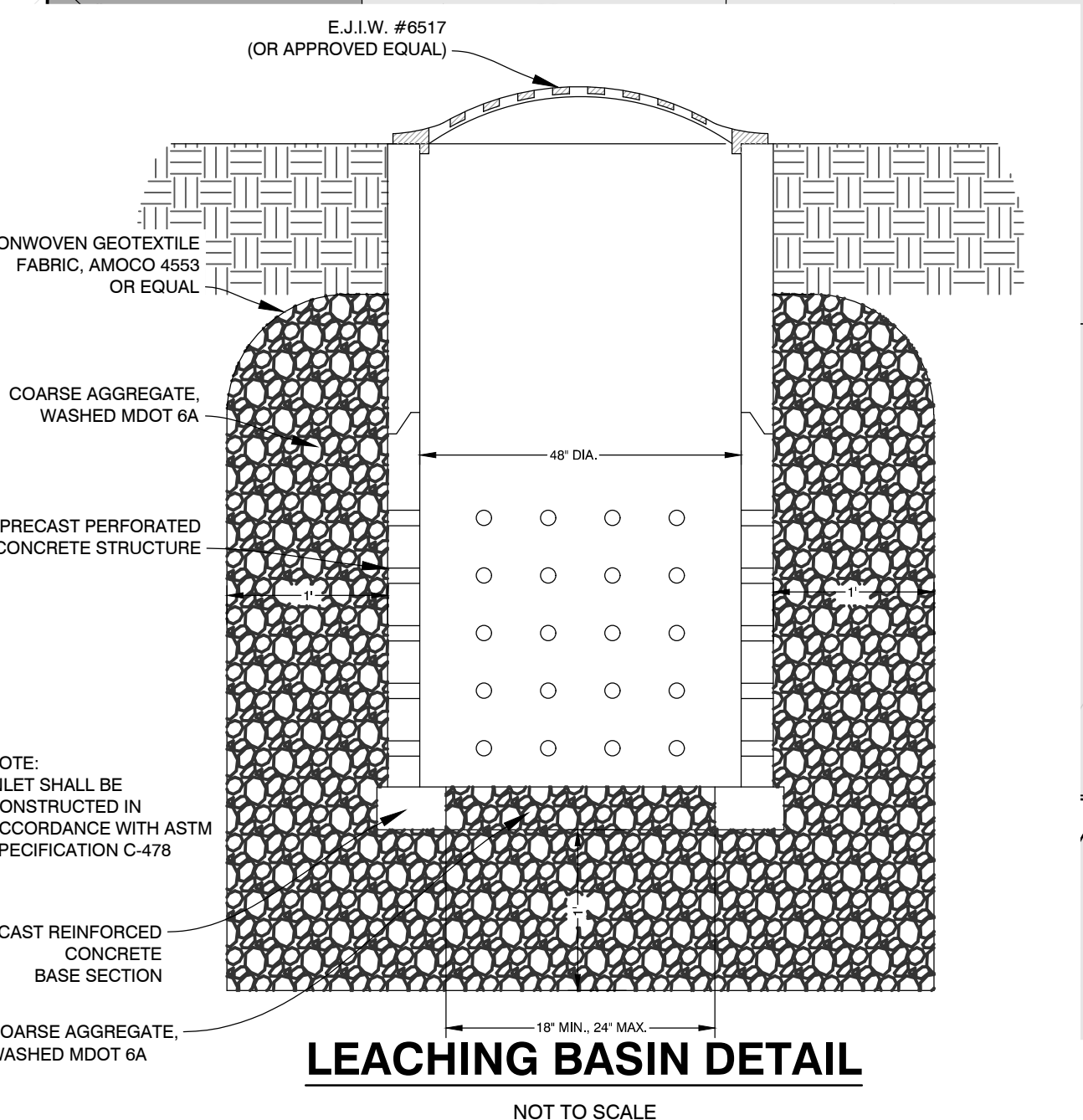
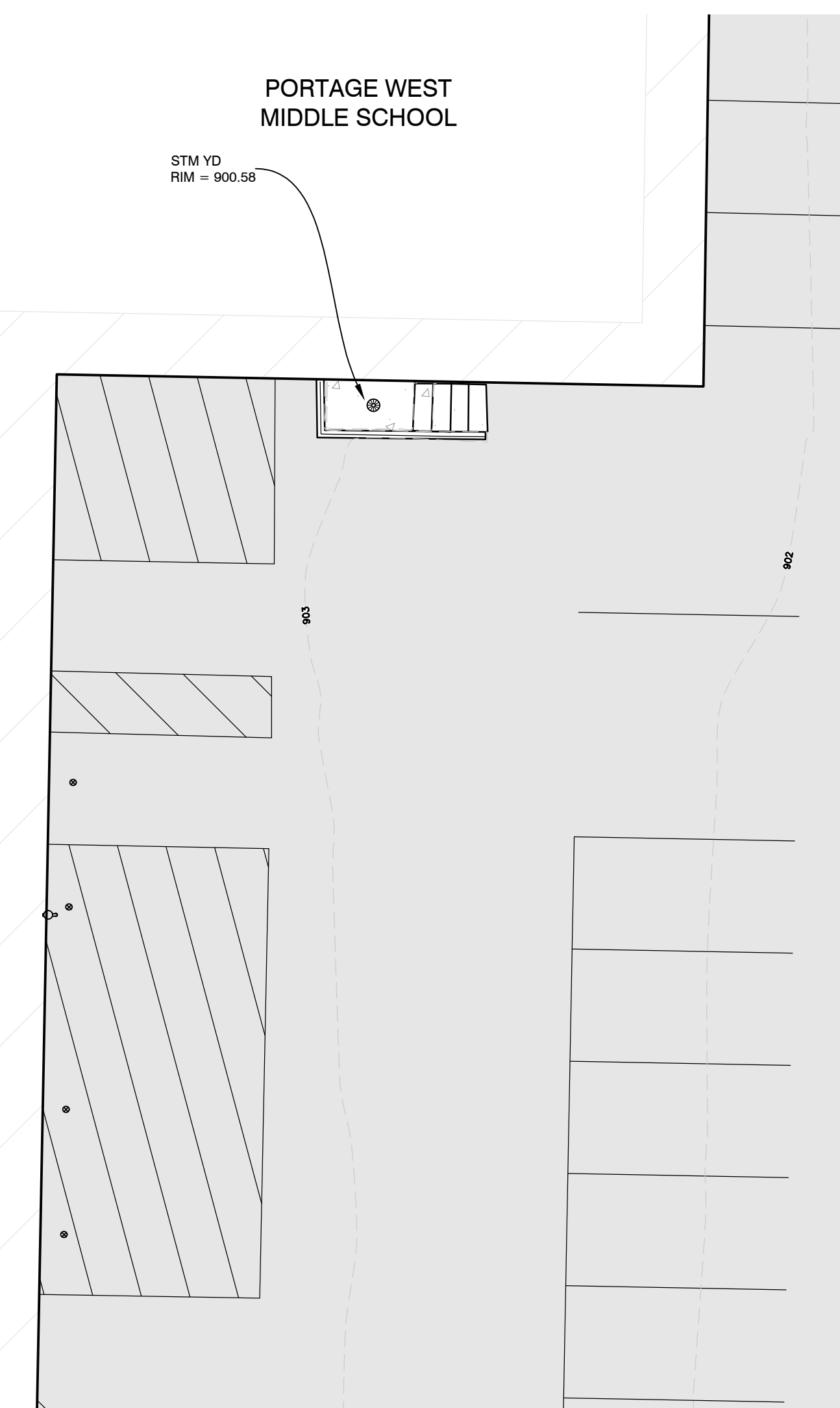
- DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
- IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

LEGEND

- SAWCUT
- LIMITS OF CONSTRUCTION
- SILT FENCE
- EXISTING GRADE

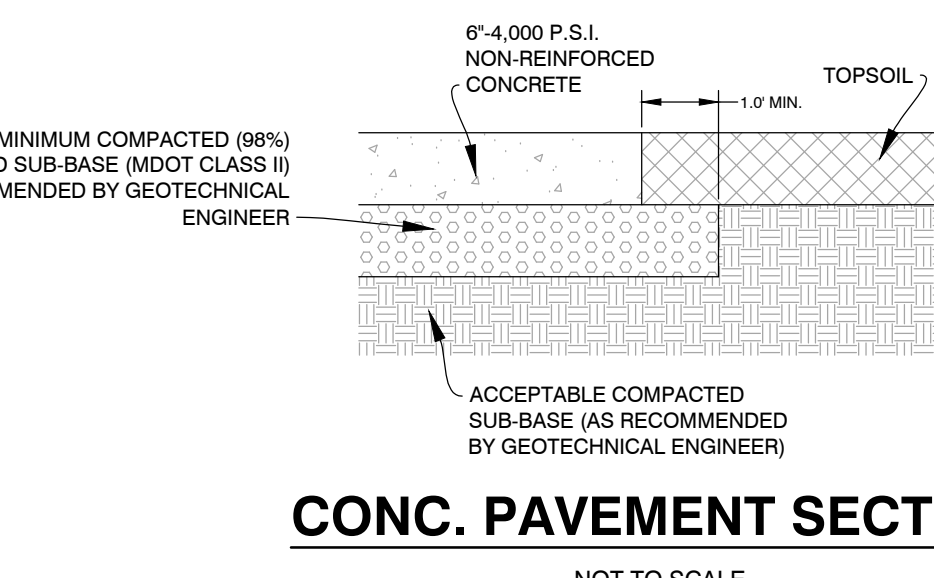
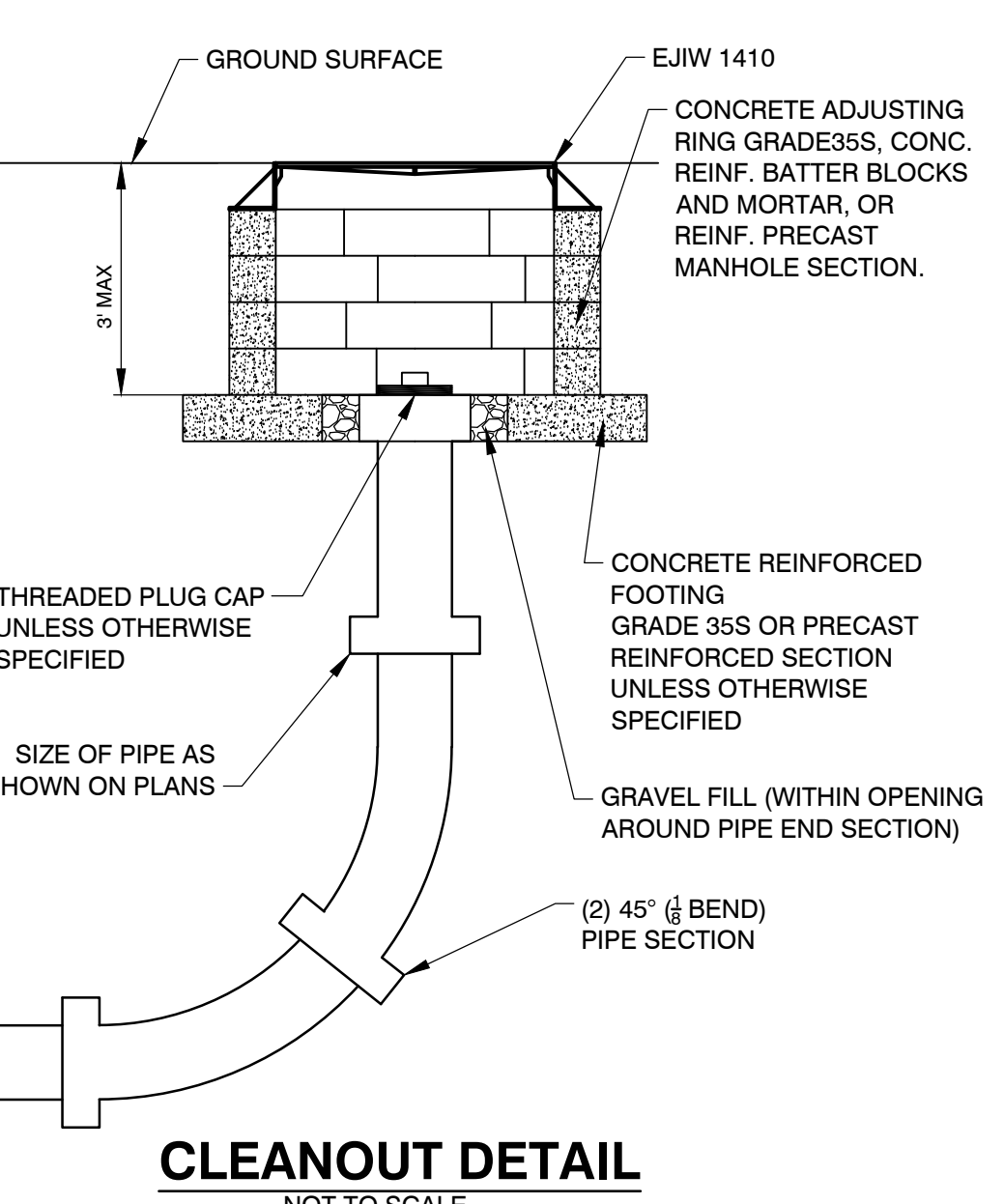
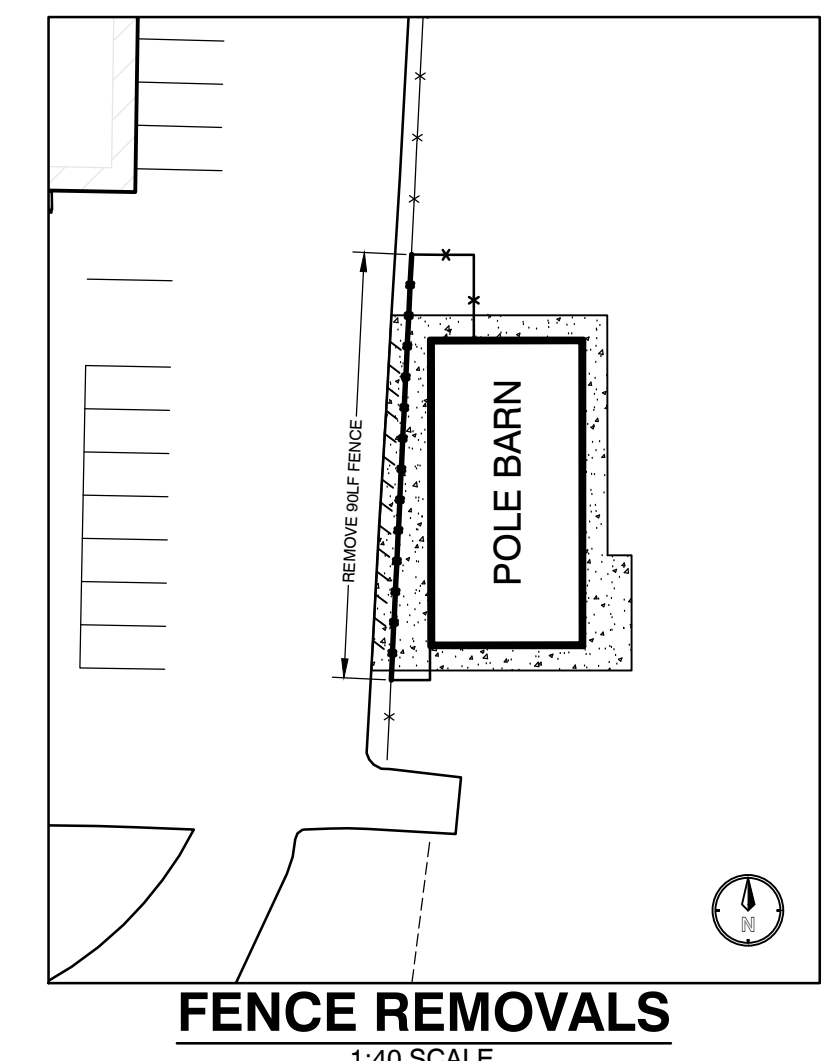
SITE DATA

- PROPERTY INFORMATION:
PARCEL #: 00017-095-0
SITE AREA: 2875000 SF (66 AC)
OWNER: PORTAGE PUBLIC SCHOOLS
8107 MUSTANG DR
PORTAGE, MI 49002
- ZONING:
R-1B RESIDENTIAL
ABUTTING PROPERTY CURRENTLY ZONED:
NORTH: R-1B RESIDENTIAL
SOUTH: PD RESIDENTIAL
EAST: R-1B RESIDENTIAL
WEST: PD RESIDENTIAL/RM-1 RESIDENTIAL
- SETBACKS
FRONT = 0'
SIDES = 0' (25' IF ABUTS R DISTRICT)
REAR = 0' (25' IF ABUTS R DISTRICT)
- PARKING: NOT APPLICABLE
- STORM WATER RETENTION REQUIRED
TOTAL IMPERVIOUS AREA: 3,349 SQFT
REQUIRED STORM WATER VOLUMES BASED ON 3" OVER IMPERVIOUS AREA:
REQUIRED STORAGE VOLUME: 838 CFT
PROVIDED VOLUME: 998 CFT



SOIL EROSION & SEDIMENTATION CONTROL NOTES

- ALL CONSTRUCTION METHODS SHALL BE DONE IN COMPLIANCE WITH MDOT-MDEQ. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING A "SOIL EROSION PERMIT" FROM THE COUNTY AND A "PERMIT BY RULE/NOTICE OF COVERAGE" FROM MDEQ, IF APPLICABLE, PRIOR TO 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 REQUIRED 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.
 - AVOID UNNECESSARY DISTURBING OR REMOVING OF EXISTING VEGETATED TOPSOIL OR EARTH COVER, THESE COVER AREAS ACT AS SEDIMENT FILTERS.
 - ALL TEMPORARY SOIL EROSION PROTECTION SHALL REMAIN IN PLACE UNTIL REMOVAL IS REQUIRED FOR FINAL CLEAN UP AND APPROVAL.
 - GEOTEXTILE SILT FENCE SHALL BE INSTALLED AS REQUIRED WHEN CROSSING CREEKS OR WHEN ADJACENT TO WETLANDS OR SURFACE WATER BODIES TO PREVENT SILTATION AND ELSEWHERE AS DIRECTED BY THE ENGINEER. SEEDING AND/OR SODDING SHALL BE INSTALLED ON CREEK BANKS IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.
 - MAINTENANCE, CLEANING, AND REMOVAL OF THE VARIOUS SEDIMENT CONTROL MEASURES SHALL BE INCLUDED IN THE VARIOUS EROSION CONTROL ITEMS.
- NUMBER IN CIRCLE REFERS TO NUMBERED DETAILS ON MDOT STANDARD PLAN R-96-D, SOIL EROSION & SEDIMENTATION CONTROL MEASURES. "P" DENOTES PERMANENT MEASURE AND "T" DENOTES TEMPORARY MEASURE. SOIL EROSION CONTROL PLANS DENOTE MINIMUM EROSION MEASURES REQUIRED AS DESCRIBED BELOW.
- Ⓟ DENOTES PERMANENT SEEDING. ALL DISTURBED AREAS NOT PAVED OR GRAVELED SHALL BE RESTORED. PLACE TOPSOIL SURFACE, SALV. 3 INCH. MDOT SEEDING, MIXTURE TUF APPLIED AT A RATE OF 220 LB/ACRE. FERTILIZER, CHEMICAL NUTRIENT, CL A APPLIED AT A RATE OF 225 LB/ACRE. MULCH AT A RATE OF 2 TON/ACRE AND MULCH ANCHORING. (APPLIES TO ENTIRE PROJECT)
- Ⓟ DENOTES TEMPORARY SILT FENCE. SILT FENCE SHALL BE INSTALLED AT CREEK CROSSINGS, ADJACENT TO ALL WETLANDS AND SURFACE WATERS, AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. EACH SILT FENCE SHALL BE INSTALLED GENERALLY ALONG THE SAME CONTOUR ELEVATION.
- Ⓟ DENOTES INLET PROTECTION FABRIC DROP. SHALL BE INSTALLED AT EXISTING AND PROPOSED STORM SEWER INLETS TO PROVIDE SETTLING AND FILTERING OF SILT LADEN WATER PRIOR TO ENTRY INTO THE DRAINAGE SYSTEM.



TowerPinkster
Architecture • Engineering • Interiors

4 East Fulton Street, Suite 200
Grand Rapids, Michigan 49503
616-456-8944 mobile 616-456-3588 fax 616-456-3583 fax
© 2020 ALL RIGHTS RESERVED

DANIEL G. LEWIS
ENGINEER
No. 52573

ISSUED FOR _____ DATE _____

PROJECT TITLE
PORTAGE - WEST MIDDLE SCHOOL - STORAGE BARN

OWNER
PORTAGE PUBLIC SCHOOLS

Portage, Michigan

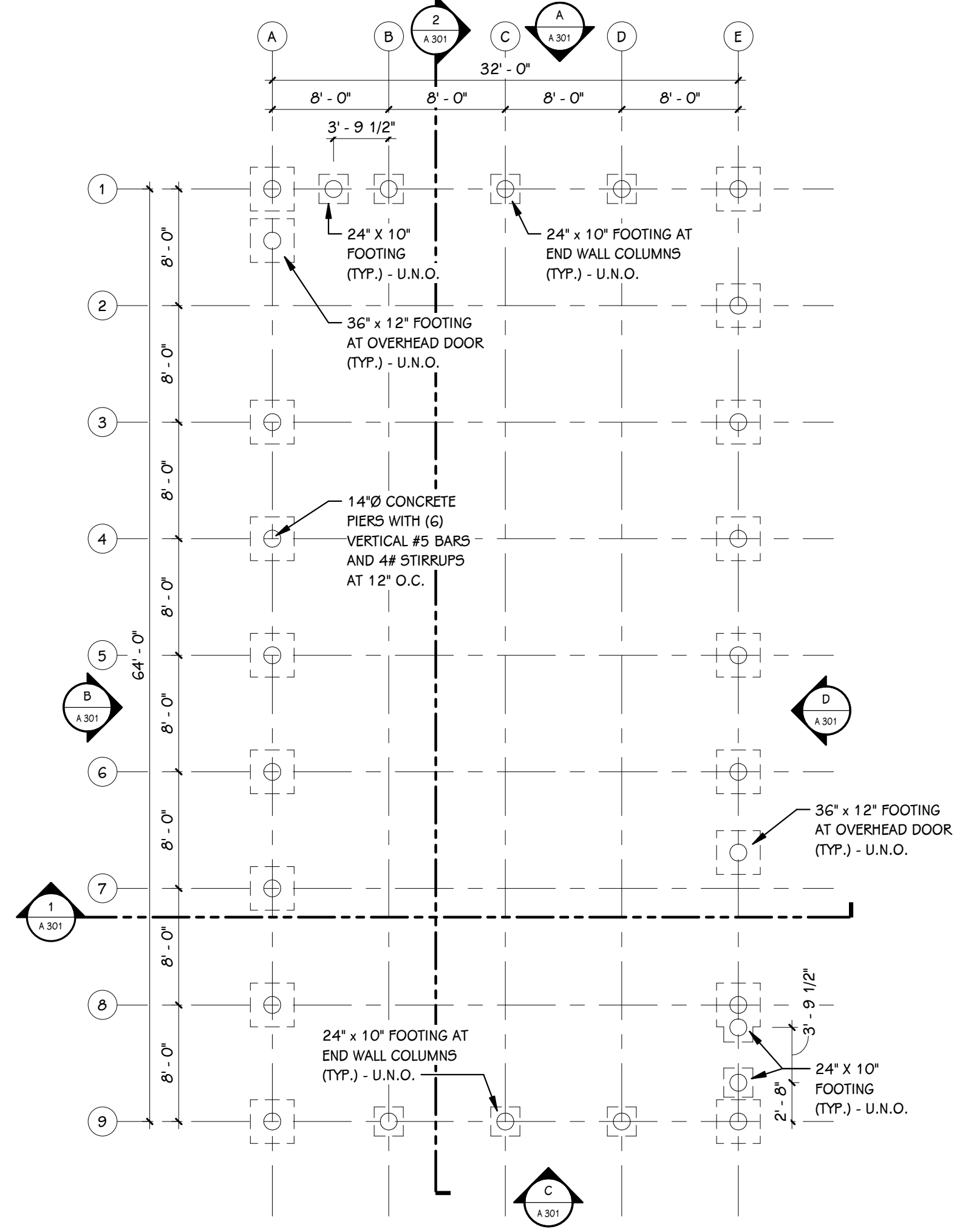
SHEET TITLE
SITE PLAN

DATE
MAY 18, 2020

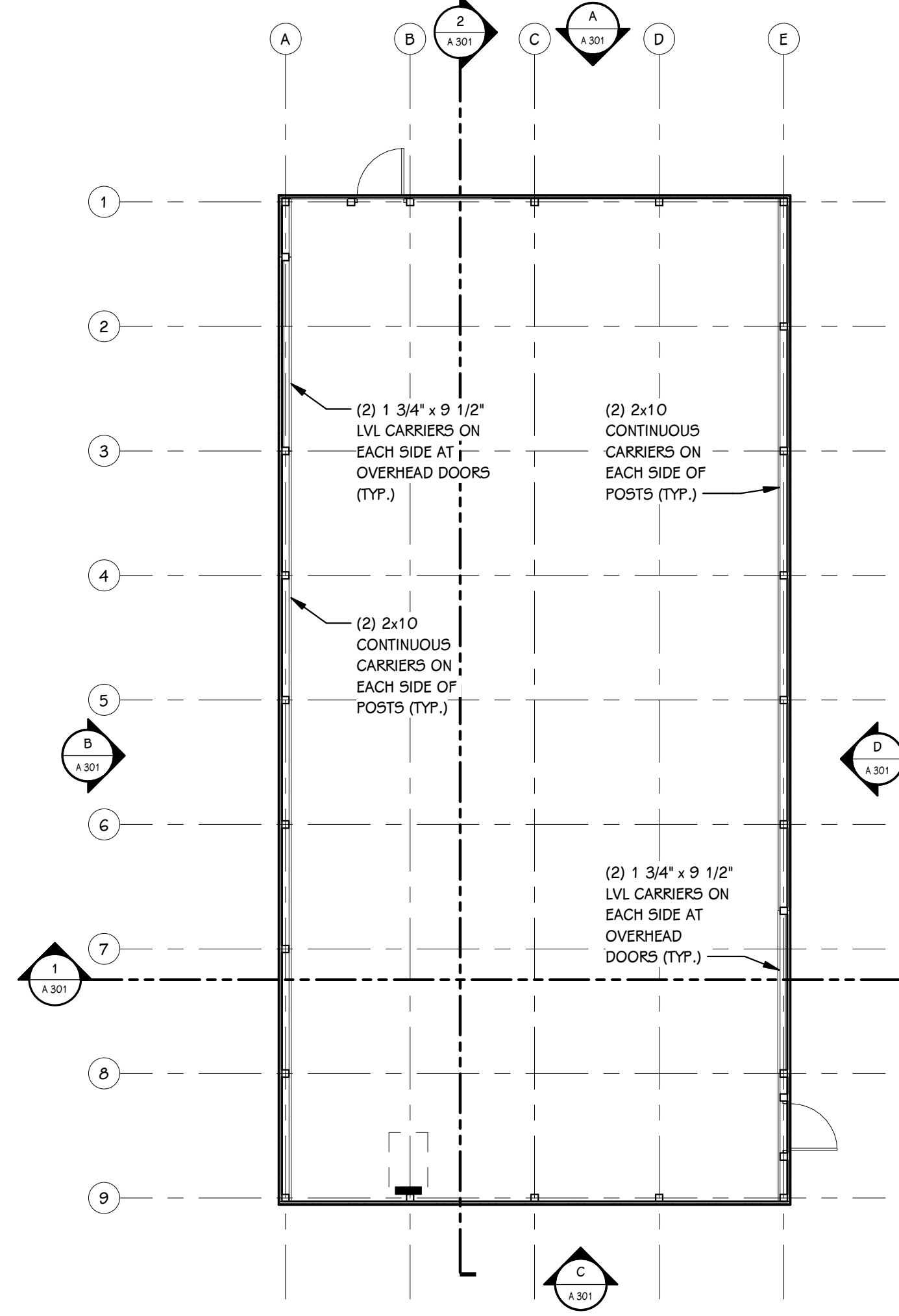
SHEET NUMBER
C 100

19-220.00

811 Know what's below. Call before you dig.



FOUNDATION PLAN
1/8" = 1'-0"



FRAMING PLAN
1/8" = 1'-0"

SHEET NUMBER
A 100
19-220.00

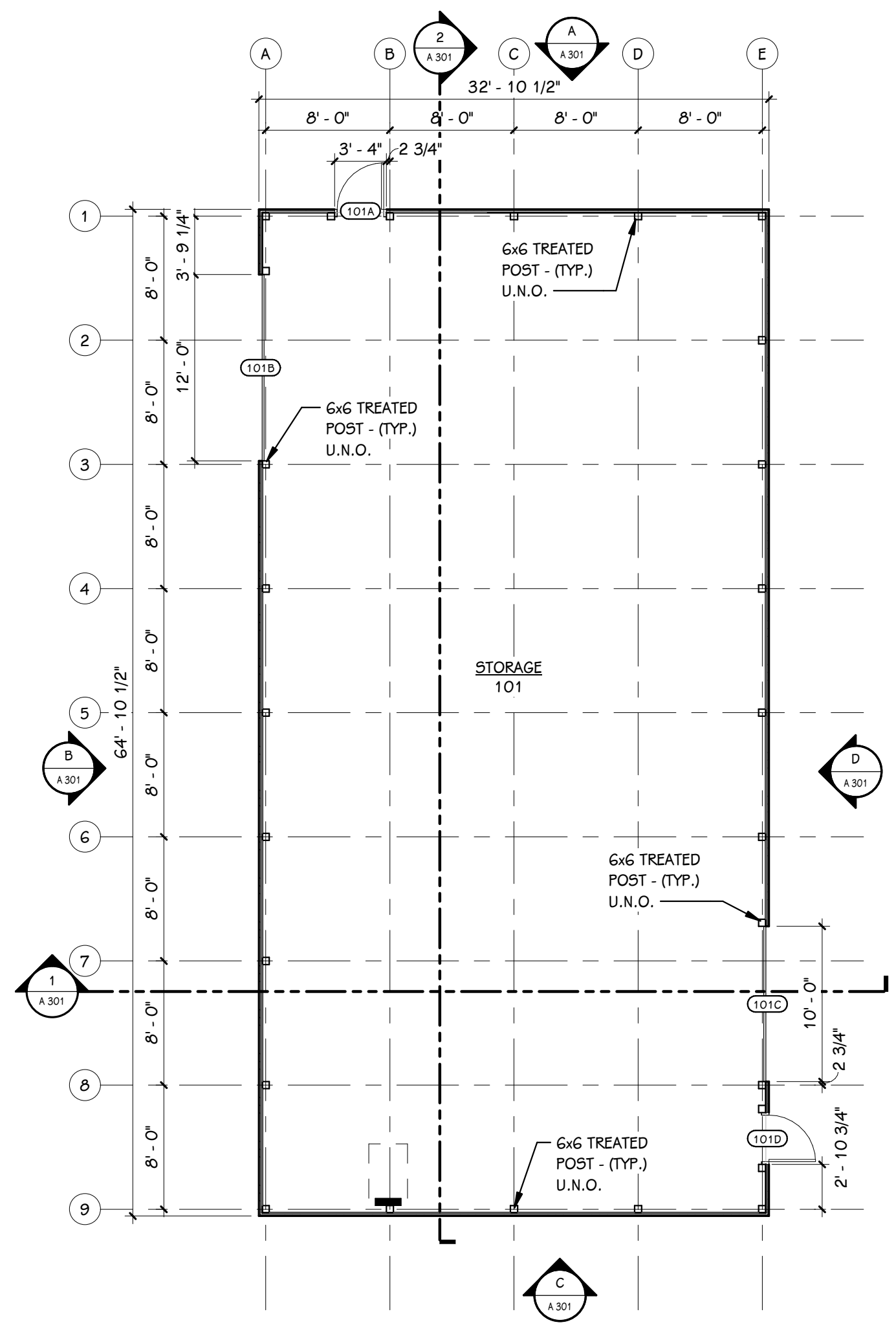
DATE
MAY 18, 2020

OWNER
PORTAGE PUBLIC SCHOOLS
Portage, Michigan

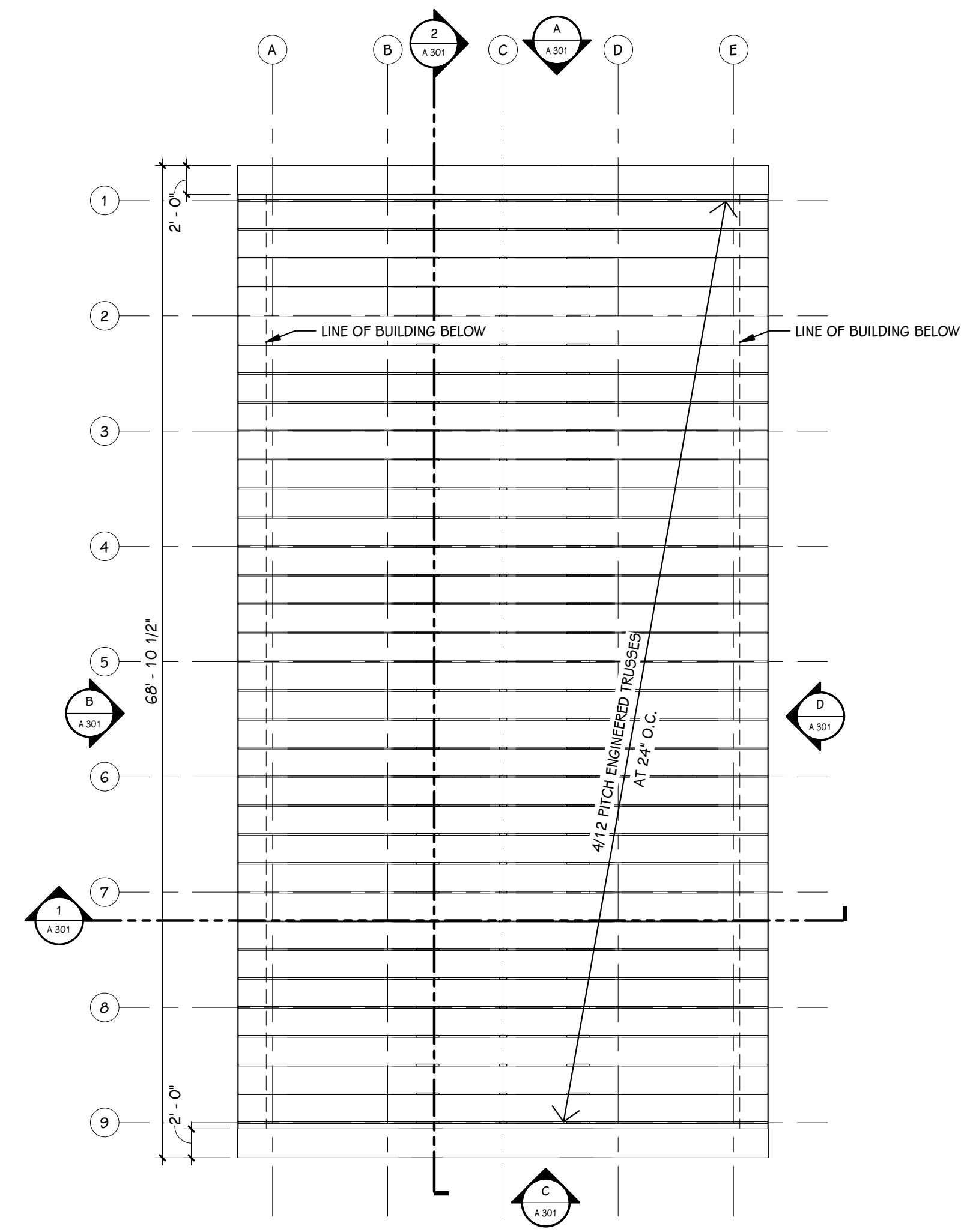
PROJECT TITLE
PORTAGE - WEST MIDDLE SCHOOL - STORAGE BARN

ISSUED FOR _____ DATE _____

- GENERAL NOTES**
- REFER TO CODE COMPLIANCE PLAN FOR WALL RATING LINES.
 - REFER TO FLOOR FINISH PLANS FOR INTERIOR ELEVATION CALLOUTS.
 - REFER TO SHEET A 501 FOR WALL AND CEILING ACCESS PANEL INFORMATION.



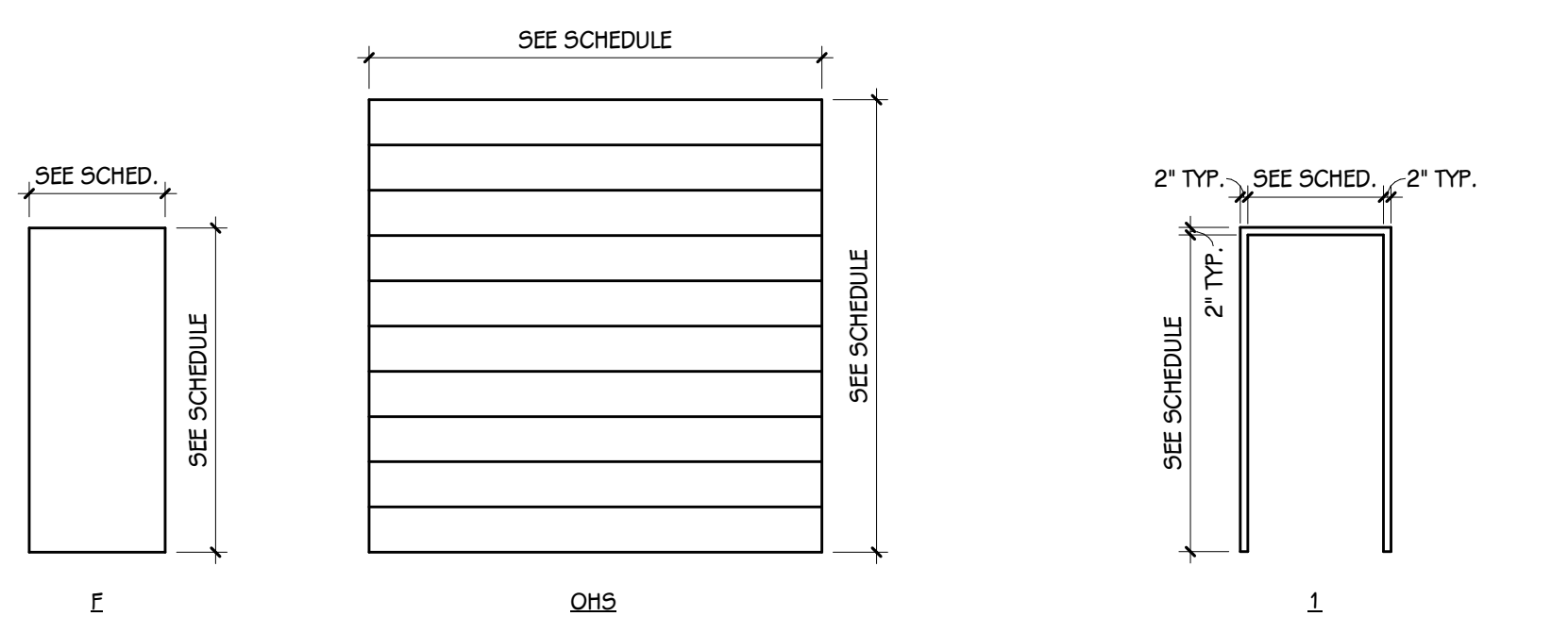
FIRST FLOOR PLAN
 1/8" = 1'-0"



ROOF FRAMING PLAN
 1/8" = 1'-0"

DOOR SCHEDULE - FIRST FLOOR

NUMBER	ROOM	ROOM NAME	FIRE RATING		DOOR			SIZE		FRAME			DETAILS			ACCESS CONTROLS					HDWR. SET	REMARKS	
			DOOR	FRAME	TYPE	MAT	FIN	WIDTH	HEIGHT	ELEV	MAT	FIN	HEAD	JAMB	SILL	GLASS	A-PHONE	BARRIER-FREE	CARD READER	ELEC. LOCK HDWR.			MAG HOLD
101A	101	STORAGE	-	-	F	5TL	FACTORY FINISH	3' - 0"	7' - 2"	1	HM	PAINT	-	-	-	-	No	No	No	No	No	1.0	-
101B	101	STORAGE	-	-	OH5	5TL	FACTORY FINISH	12' - 0"	10' - 0"	-	5TL	-	5 / A 301	-	-	-	No	No	No	No	No	2.0	-
101C	101	STORAGE	-	-	OH5	5TL	FACTORY FINISH	10' - 0"	10' - 0"	-	5TL	-	5 / A 301	-	-	-	No	No	No	No	No	2.0	-
101D	101	STORAGE	-	-	F	5TL	FACTORY FINISH	3' - 0"	7' - 2"	1	HM	PAINT	-	-	-	-	No	No	No	No	No	1.0	-



DOOR TYPES
 1/4" = 1'-0"

FRAME ELEVATION
 1/4" = 1'-0"

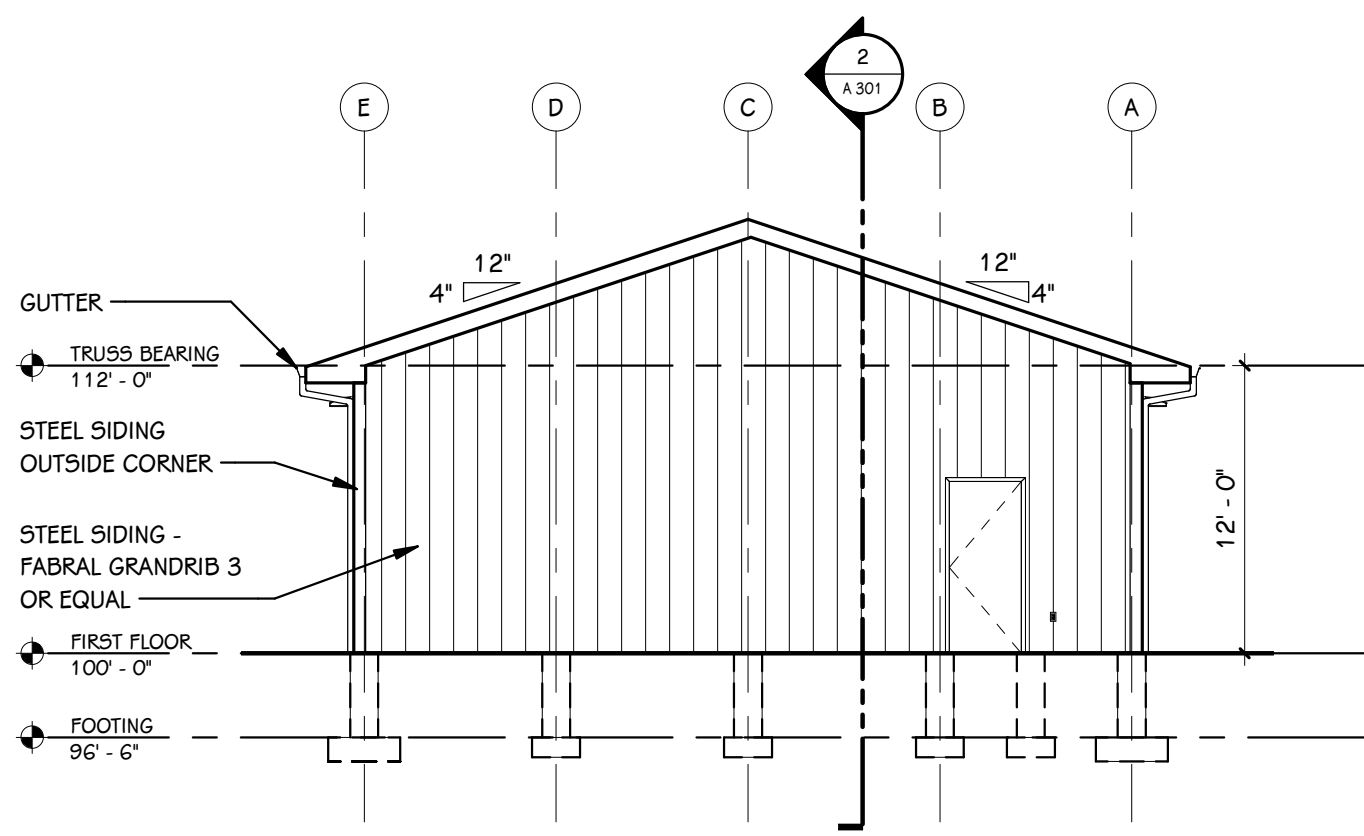
ISSUED FOR _____ DATE _____

PROJECT TITLE
 PORTAGE - WEST
 MIDDLE SCHOOL -
 STORAGE BARN

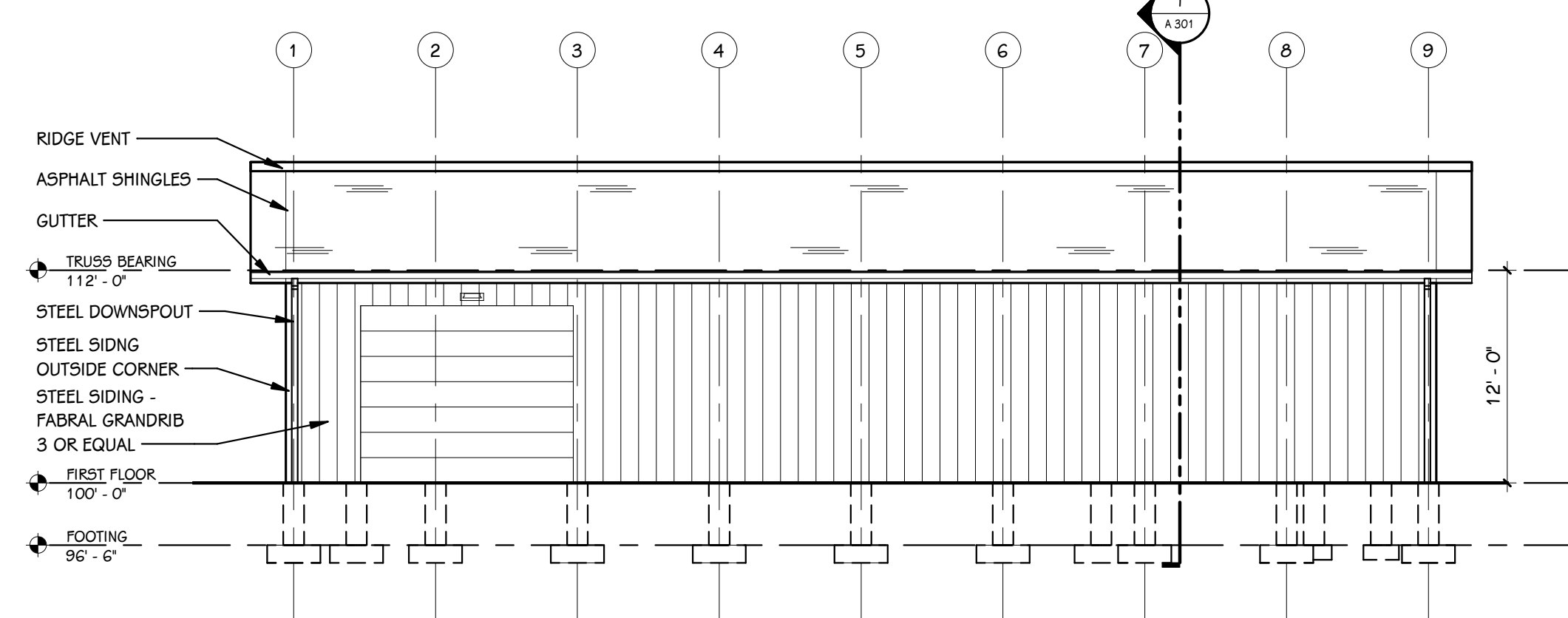
OWNER
 PORTAGE PUBLIC
 SCHOOLS
 Portage, Michigan

SHEET TITLE
 FIRST FLOOR PLAN, ROOF FRAMING
 PLAN AND DOOR SCHEDULE

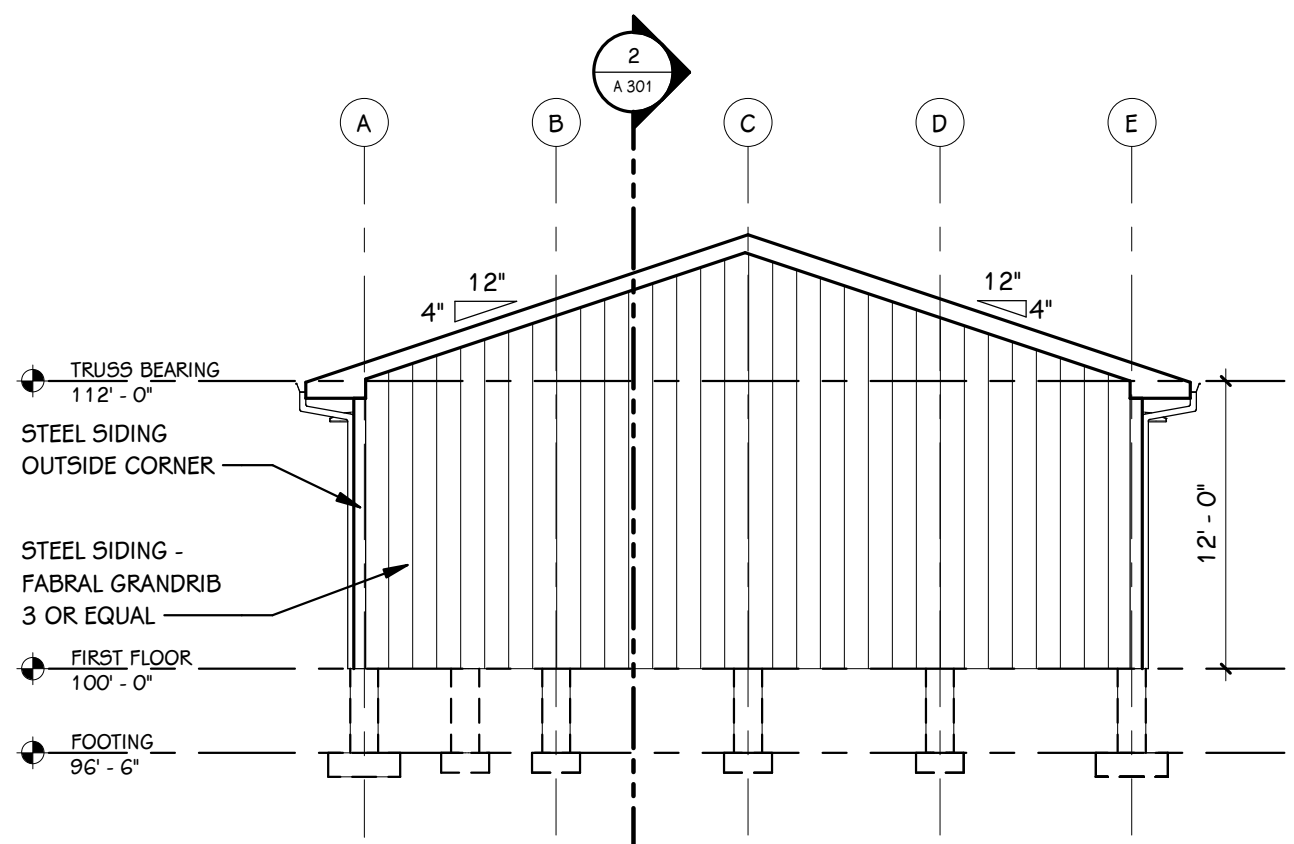
SHEET NUMBER
A 101
 19-220.00
 DATE
 MAY 18, 2020



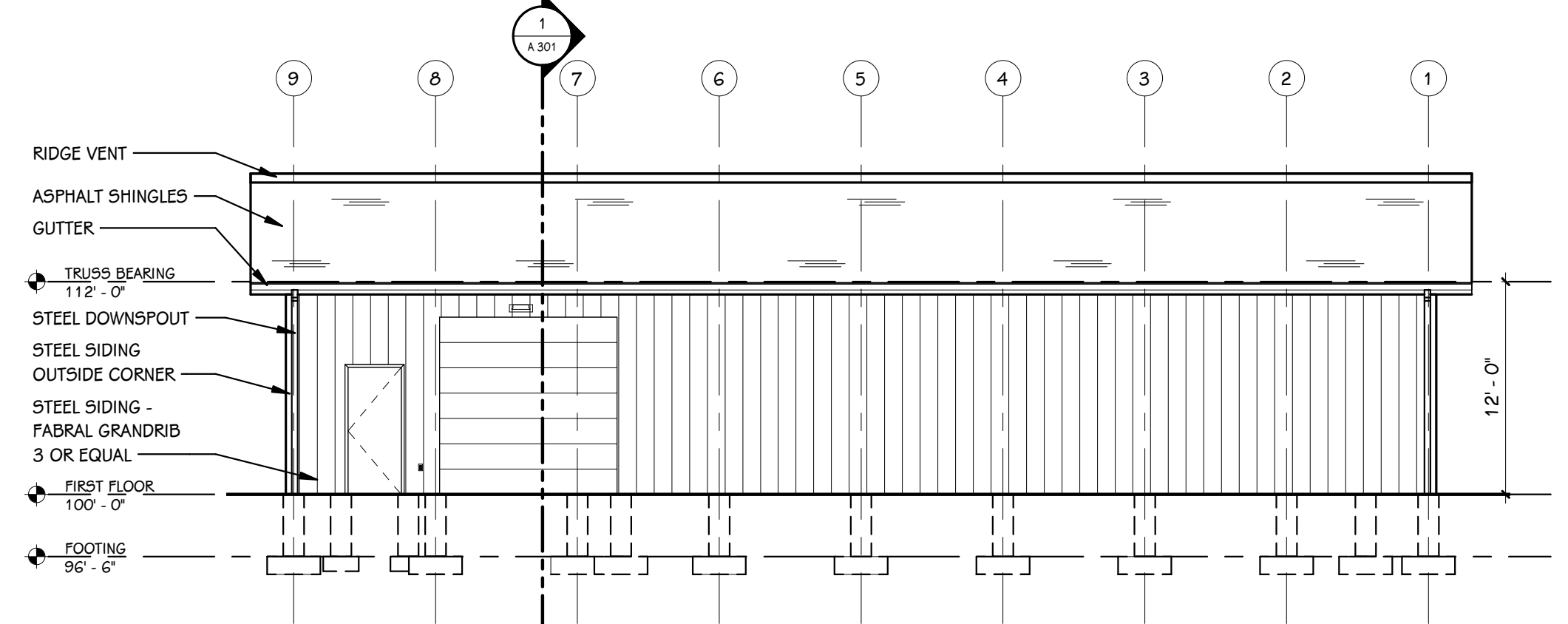
A NORTH ELEVATION
A.301 1/8" = 1'-0"



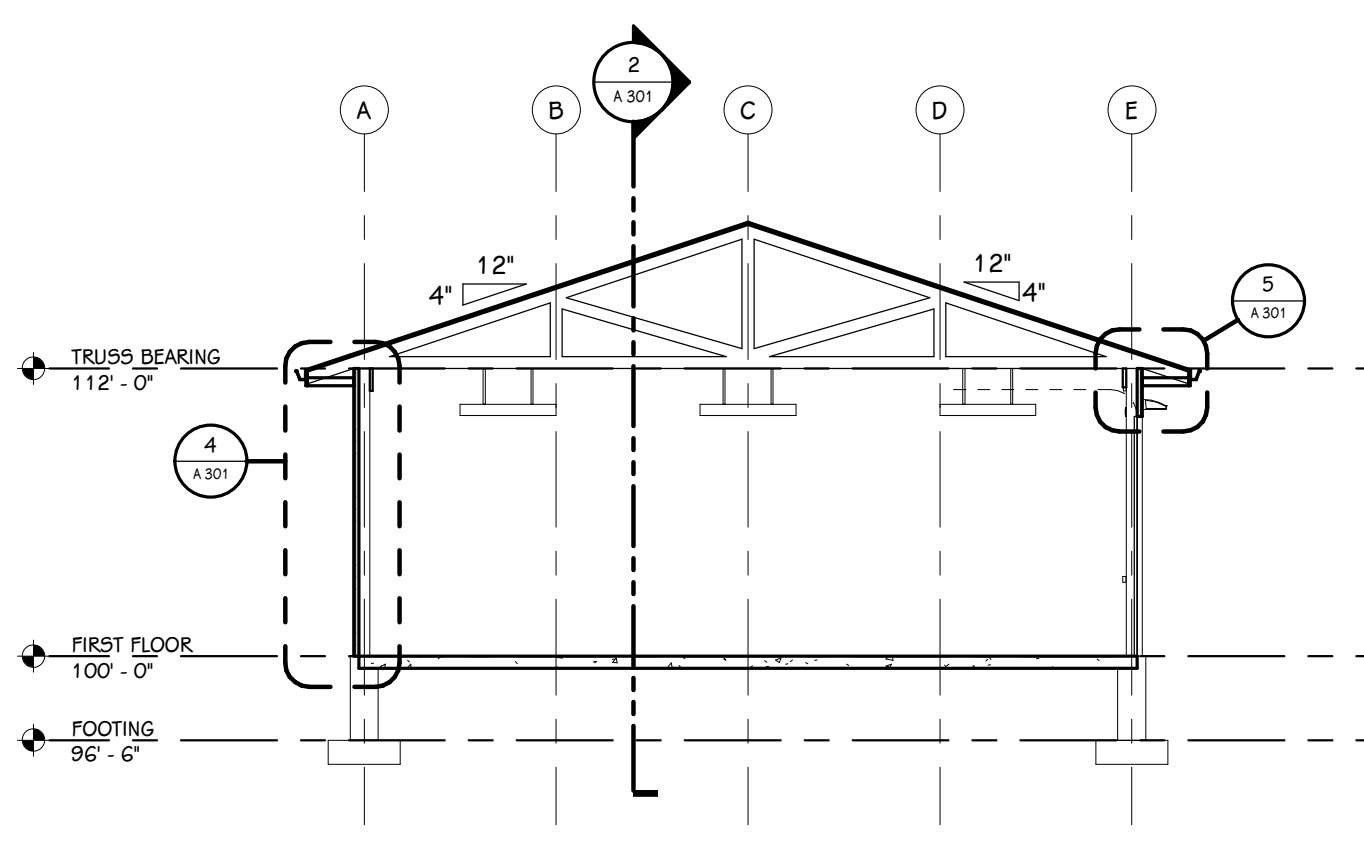
B WEST ELEVATION
A.301 1/8" = 1'-0"



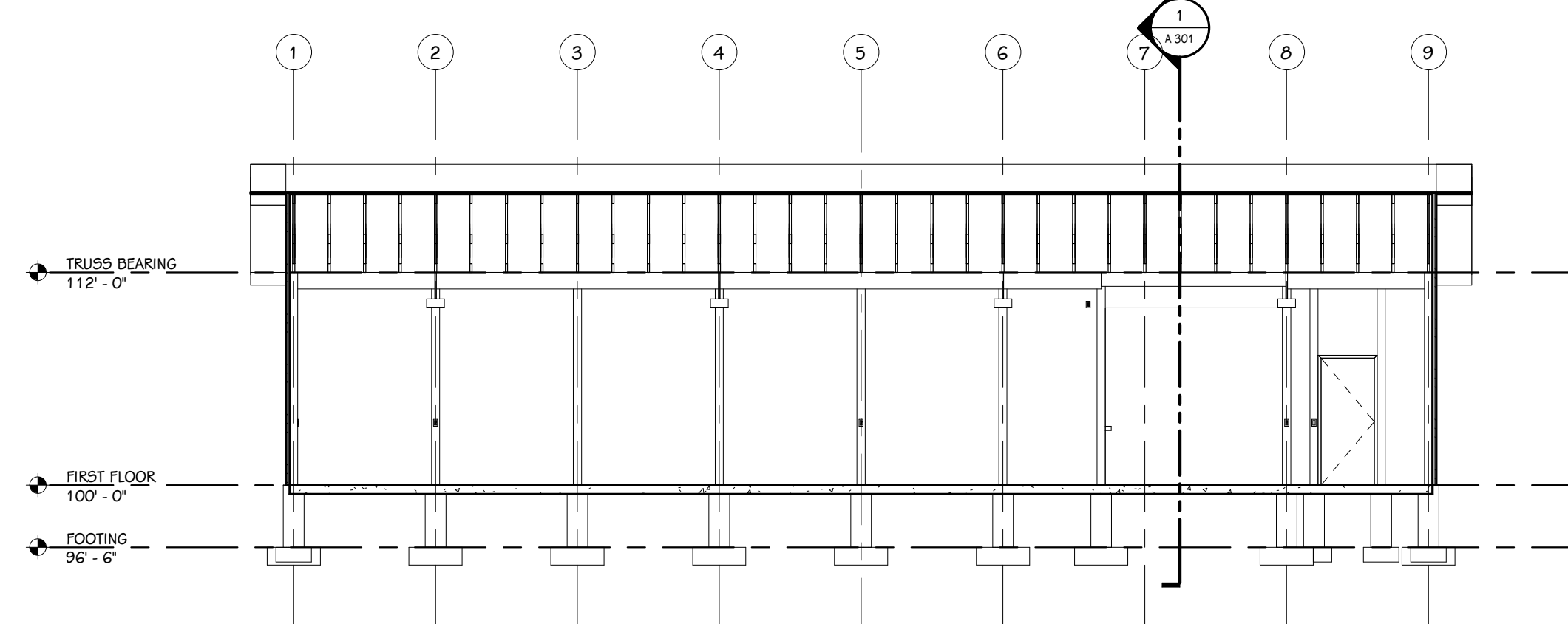
C SOUTH ELEVATION
A.301 1/8" = 1'-0"



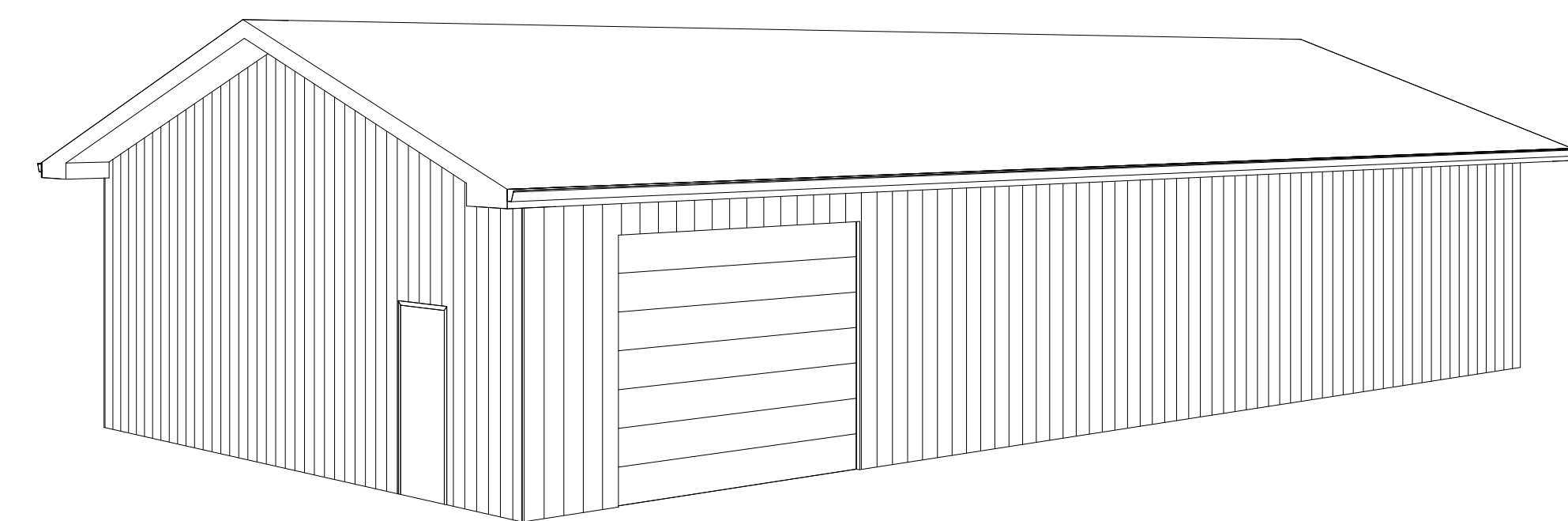
D EAST ELEVATION
A.301 1/8" = 1'-0"



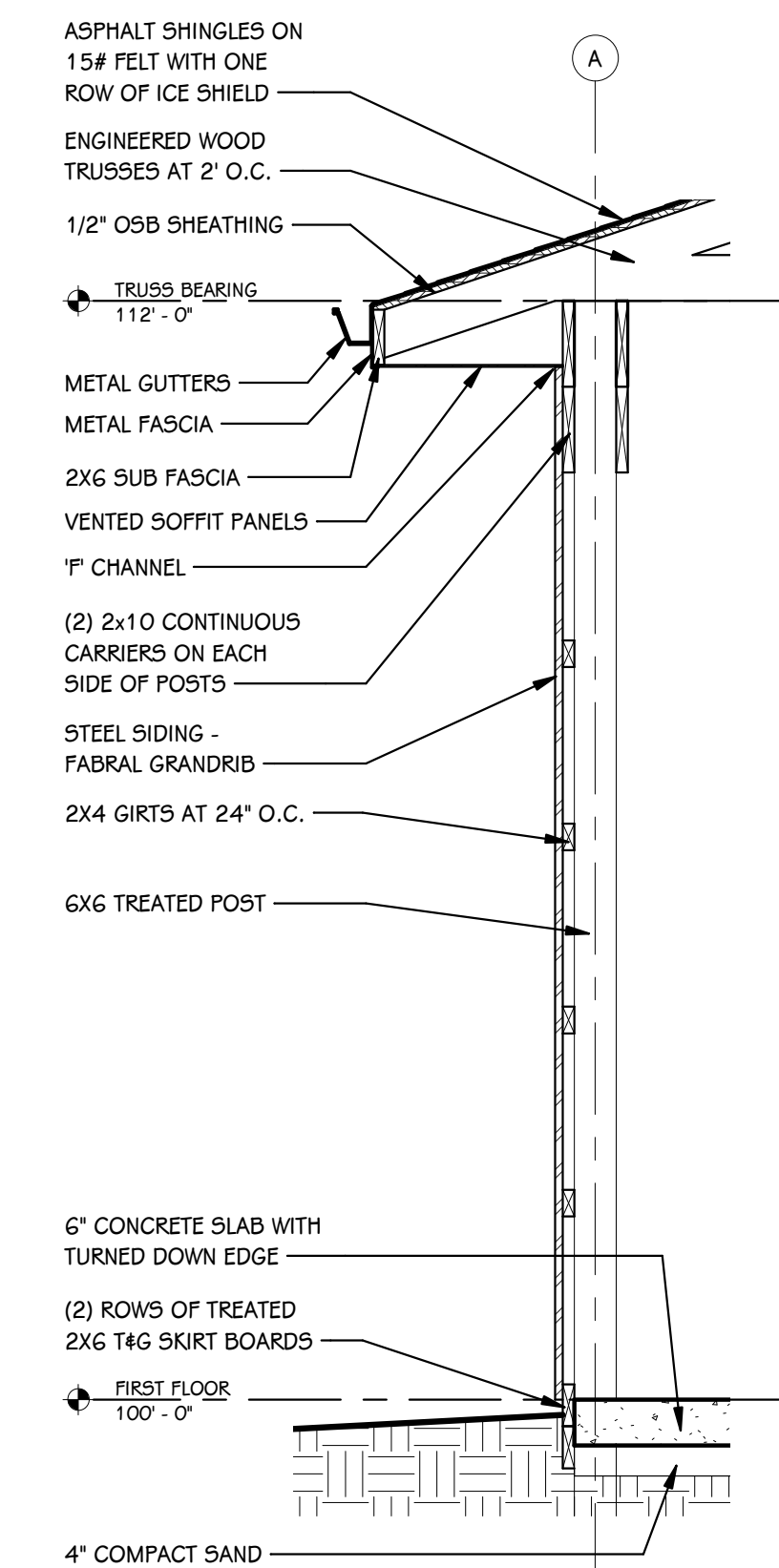
1 BUILDING SECTION
A.301 1/8" = 1'-0"



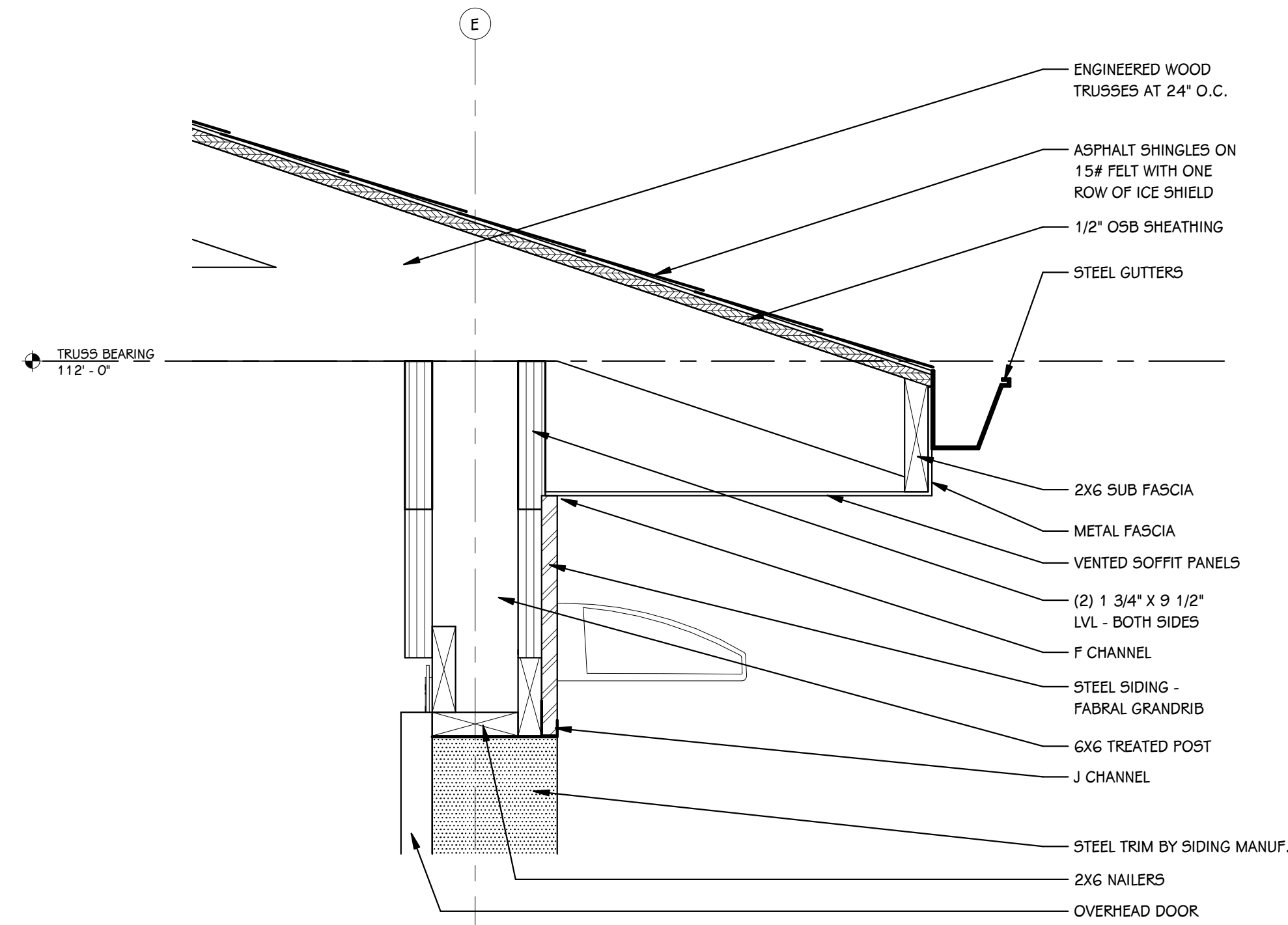
2 BUILDING SECTION
A.301 1/8" = 1'-0"



3D View



4 WALL SECTION
A.301 1/2" = 1'-0"



5 WALL DETAIL
A.301 1 1/2" = 1'-0"

EXTERIOR ELEVATION KEY	
	SHINGLES, COLOR:
	METAL SIDING, COLOR:

TowerPinkster
Architecture · Engineering · Interiors

4 East Fulton Street, Suite 200
Grand Rapids, Michigan 49503
616.456.8944 phone 616.456.9536 fax

242 East Kalamazoo Avenue, Suite 100
Kalamazoo, Michigan 49007-5828
269.343.6633 fax 269.343.6633 phone

© 2020 ALL RIGHTS RESERVED

PROJECT TITLE
PORTAGE PUBLIC MIDDLE SCHOOL - STORAGE BARN

OWNER
PORTAGE PUBLIC SCHOOLS

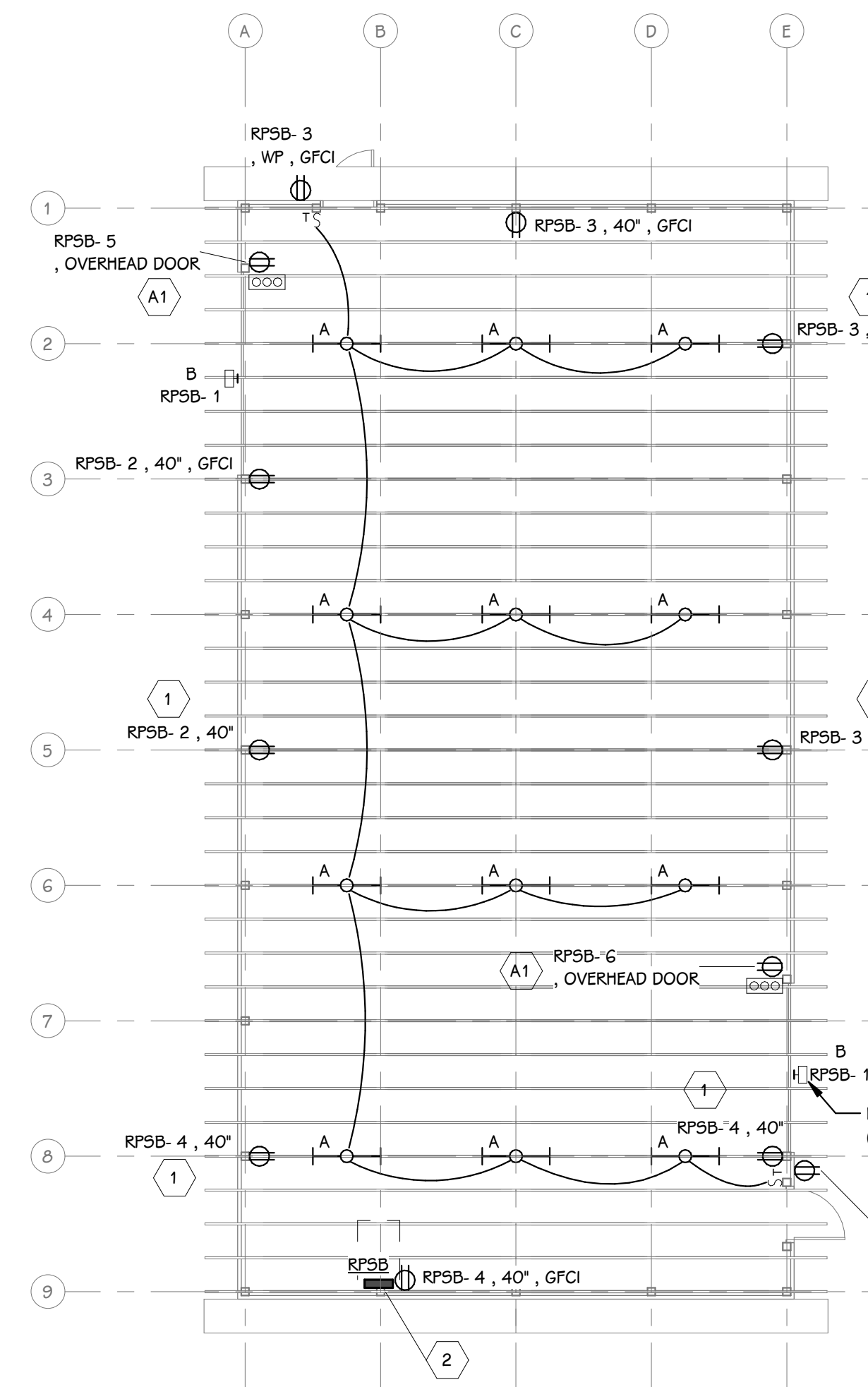
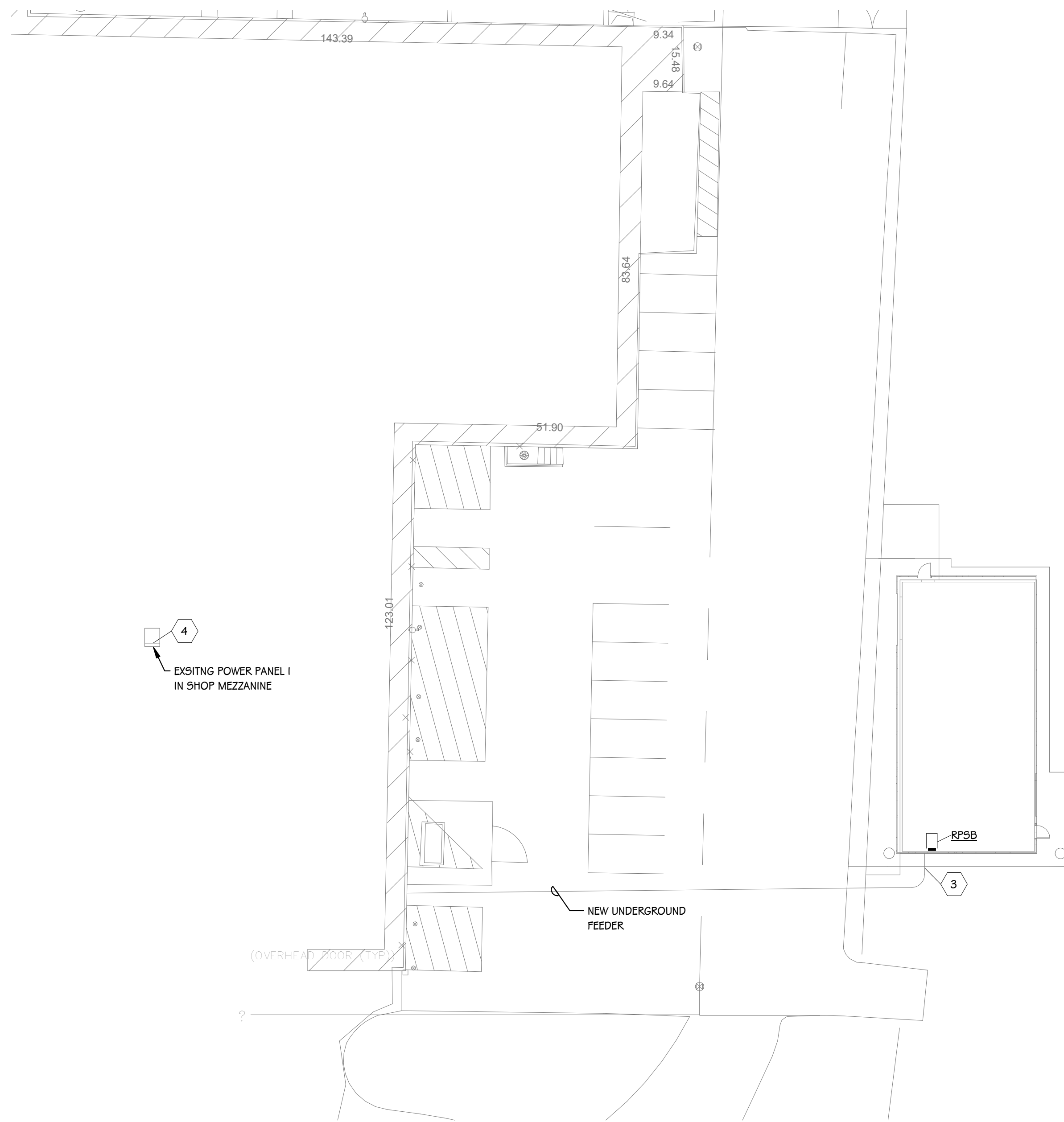
Portage, Michigan

SHEET TITLE
EXTERIOR ELEVATIONS, BUILDING SECTIONS, 3D VIEW AND WALL SECTIONS

DATE
MAY 18, 2020

SHEET NUMBER
A 301

19-220.00



- GENERAL ELECTRICAL NOTES**
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR NEW WORK OR WHERE DEVICES ARE REMOVED AND NOT REPLACED.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE WITH G SERIES SHEETS DEVICE COORDINATION DETAIL. DEVICES ARE TO ALIGN VERTICALLY AND HORIZONTALLY AND FOLLOW THE RULES OF THIS DETAIL CONSISTENTLY. A PRE-INSTALL DEVICE COORDINATION MEETING FOR DEVICE FINISHES AND LAYOUT MAY BE REQUIRED IN THE SPECIFICATION FOR THIS PROJECT.
 - PATCH ALL PENETRATIONS AS REQUIRED TO MAINTAIN FIRE RATING.
 - ALL CONDUITS SHALL RUN AS NEAR TO DECK AS PERMITTED BY CODE. SOME CONDUITS WILL BE EXPOSED AND SHALL BE RUN IN A NEAT MANNER. MAINTAIN THE SAME SPACING WHEN CONDUITS ARE RUN TOGETHER.
 - REMOVE CEILINGS AND GRID AS REQUIRED. REPLACE ANY DAMAGED CEILINGS.
 - ALL CONDUITS SHALL ENTER/EXIT THE BUILDING BELOW GRADE. PROVIDE TRENCHING AND DIRECTIONAL BORING AS REQUIRED. CUT AND PATCH AS REQUIRED. NO EXPOSED CONDUIT SHALL BE ALLOWED ON EXTERIOR OF BUILDING.
 - PROVIDE FINAL CONNECTION TO ALL OWNER/CONTRACTOR PROVIDED EQUIPMENT. COORDINATE RECEPTACLE SIZES AND TYPE WITH EQUIPMENT, ADJUST CIRCUIT SIZE AS REQUIRED.
- ELECTRICAL KEYED NOTES**
- CONNECT RECEPTACLE TO LOAD SIDE OF UPSTREAM GFCI RECEPTACLE.
 - PROVIDE SQUARE D: MP215S40F POWERZONE PANEL WITH 60 AMP MAIN BREAKER. PROVIDE PLYWOOD BACKER BOARD TO MOUNT PANEL TO.
 - PROVIDE 18"x24" HANDHOLE IN GRADE NEXT TO SIDEWALK. PROVIDE CONDUIT FOR NEW PANEL RPSB, REFER TO ONE-LINE DIAGRAM. PROVIDE (1) 2" SPARE CONDUIT TO HAND HOLE WITH FULL STRING. COORDINATE PARKING LOT TRENCHING WITH WATER PIPING PROJECT.
 - PROVIDE NEW 40/2 BREAKER IN IN EXISTING SQUARE D 480 VOLT DISTRIBUTION PANEL TO FEED NEW PANEL RPSB.
 - A1 BASE BID: CONNECT OVERHEAD DOOR TO CIRCUIT SHOWN. COORDINATE FINAL POWER CONNECTION WITH DOOR PROVIDER. MOUNT AND WIRE DOOR SWITCH AND ELECTRIC EYE(S) AT BOTTOM OF DOOR. IF ALTERNATE #1 IS ACCEPTED OMIT POWERED OVERHEAD DOOR WORK, DOOR WILL BE MANUAL.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	WATTS	MANUFACTURER
A	INDUSTRIAL STRIP	CHAIN	50 VA	LITHONIA: # CLX-L48-SEF-WDL-WD-MVOLT-GZ10-40K-80CRI-WI-HC36
B	LED WALL PACK	WALL	25 VA	LITHONIA: # WST-LED-P2-40K-VF-MVOLT-PIH-COLOR

PANELBOARD "RPSB" LOAD SCHEDULE

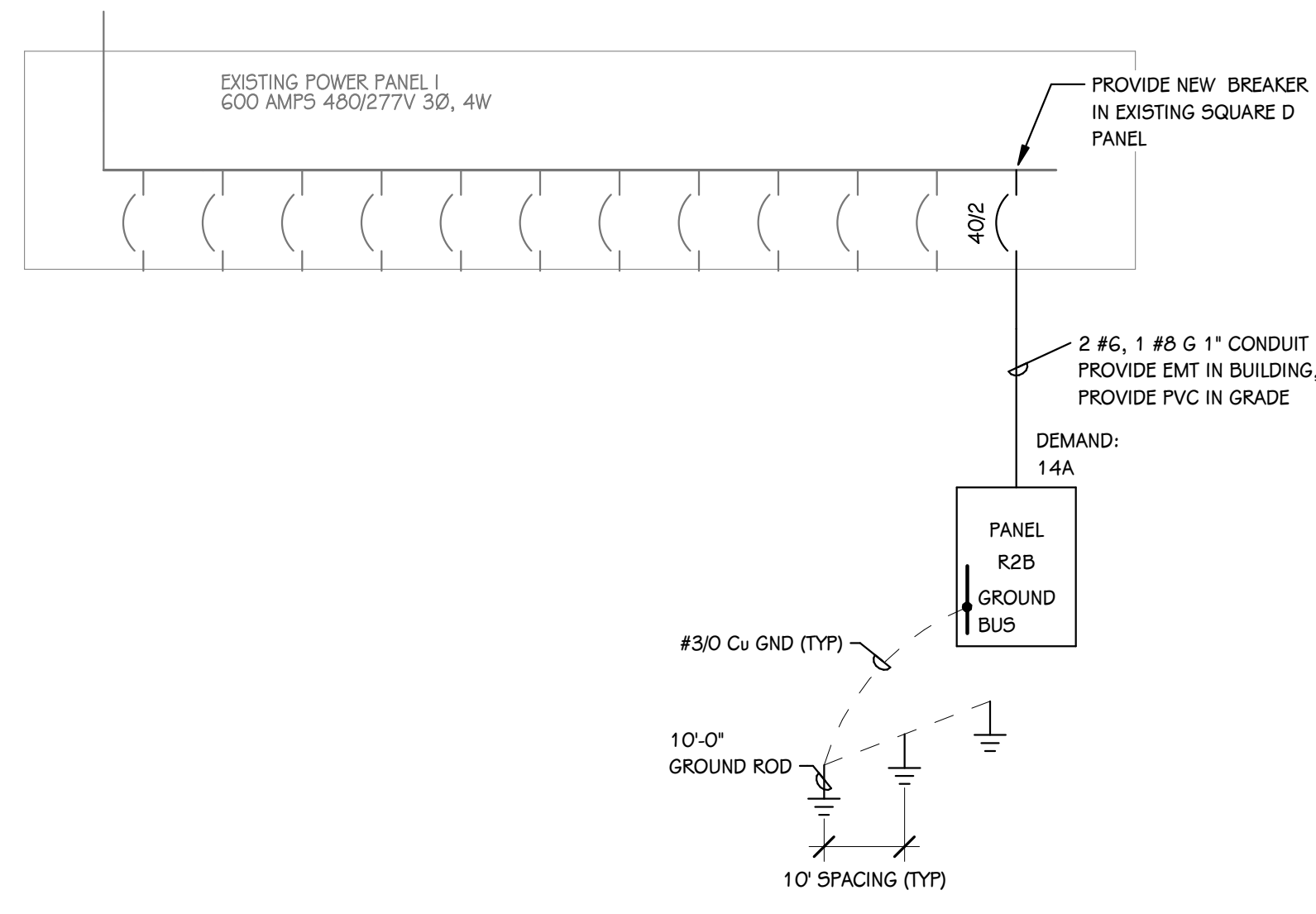
PANEL: RPSB
LOCATION: STORAGE / FIRST FLOOR
ADDED ACCESSORIES:

MOUNTING: SURFACE
AMPS: 60 A MB, ULSE RATED
FEED-THRU LUGS... No

VOLTAGE: 120/240V, 1PH, 3W
FED FROM: EXIST. POWER PANEL I
I.C. RATING: 18 KAIC

CIRCUIT DESCRIPTION	TRIP (A)	POLES	A	B	POLES	TRIP (A)	CIRCUIT DESCRIPTION	
1 LIGHTING	20	1	650	360	1	20	RECEPTACLE - STORAGE	
3 RECEPTACLE - STORAGE	20	1		720	720	1	20	RECEPTACLE - STORAGE
5 RECEPTACLE - STORAGE	20	1	500	500		1	20	RECEPTACLE - STORAGE
7 SPARE	20	1		0	0	1	20	SPARE
9 SPARE	20	1	0	0		1	20	SPARE
11 SPARE	20	1		0	0	1	20	SPARE
13 SPARE	20	1	0	0		1	20	SPARE
15 SPARE	20	1		0	0	1	20	SPARE
17								
19								
21								
23								
TOTAL LOAD:			2010 VA	1440 VA				
ADDITIONAL FEED THRU LUGS LOAD (IF APPLICABLE):			0 VA	0 VA				
TOTAL AMPS:			17 A	12 A				
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND		PANEL TOTALS			
LIGHTING -	650 VA	100.00%	650 VA		TOTAL CONNECTED LOAD: 3450 VA			
RECEPTACLE -	2800 VA	100.00%	2800 VA		TOTAL ESTIMATED DEMAND: 3450 VA			
					TOTAL CONNECTED LOAD (A): 14 A			
					TOTAL ESTIMATED DEMAND... 14 A			

NOTES:



- ELECTRICAL SYMBOLS**
- | SYMBOL | DESCRIPTION | MOUNTING HEIGHTS |
|--|---|------------------|
| LIGHTING SYMBOLS | | |
| ST | TIMER SWITCH - SENSOR SWITCH: PFS-720 OR EQUAL | 40" |
| —○— | INDUSTRIAL LIGHT FIXTURE | |
| ○ | WALL MTD. LIGHT FIXTURE | |
| RECEPTACLE SYMBOLS | | |
| ⊖ | DUPLEX RECEPTACLE | 16" |
| ⊖WP | DUPLEX RECEPTACLE - WET LOCATION ENCLOSURE WITH GFI | 24" |
| RECEPTABLES VARIATIONS - HEIGHT PER ABOVE UNLESS INDICATED ON DRAWINGS: | | |
| ⊖⊖ | DOUBLE DUPLEX RECEPTACLE | |
| ⊖GFI | DUPLEX RECEPTACLE - WITH GFI | |
| POWER SYMBOLS | | |
| ■ | PANELBOARD | 72" TO TOP |
| ▨ | DISTRIBUTION PANELBOARD | 72" TO TOP |
| — — | CIRCUIT BREAKER | |
| ⊖ | FLUSH IN-GRADE HAND HOLE | |
| ⊖ | PUSH-BUTTON STATION - 3 HOLE | |
- NOTES:**
MOUNT DEVICES AT HEIGHTS INDICATED UNLESS INDICATED OTHERWISE ON PLANS. HEIGHTS ARE TO BOTTOM OF DEVICE.