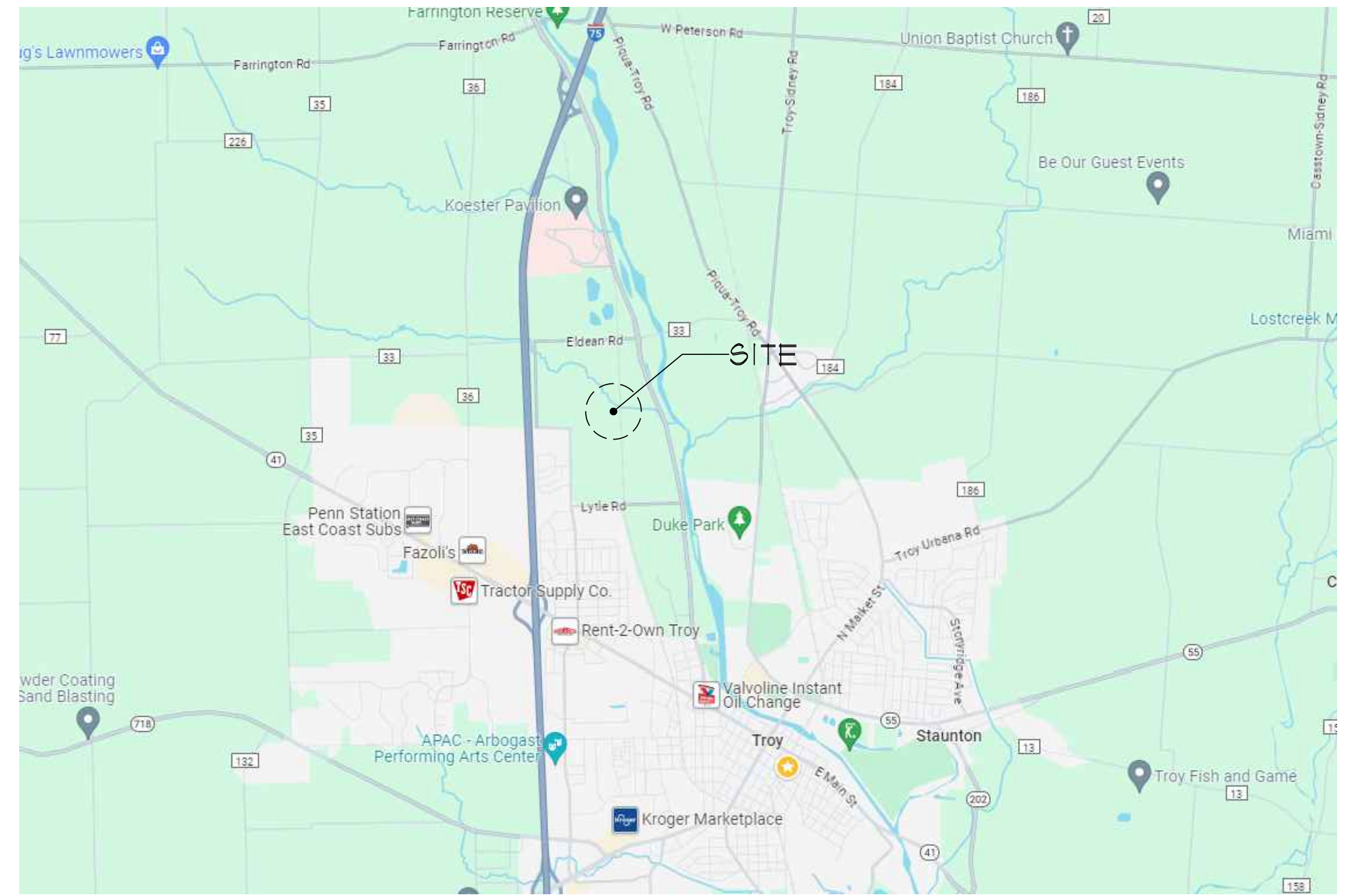


A NEW ADDITION FOR THE MIAMI COUNTY SHERIFF TACTICAL VEHICLE STORAGE FACILITY 2050 NORTH COUNTY ROAD 25A TROY, OHIO 45373



LOCATION MAP

23 South Center Street
Springfield, OH 45502
(937) 325-9991
info@wdc-group.com

WDC GROUP

REVISIONS:

NOTICE:

THESE DOCUMENTS WERE PREPARED UNDER A LIMITED SERVICES AGREEMENT BETWEEN THE OWNER AND ARCHITECT AND ARE INTENDED TO ILLUSTRATE DETAILS TYPICALLY FOUND IN COMPLETE BIDDING AND CONSTRUCTION RELATED DOCUMENTS. THE INTENT OF THESE IS TO PROVIDE A DESCRIPTION OF THE PROJECT TO A LEVEL OF DETAIL NECESSARY TO IDENTIFY COMPLIANCE WITH THE APPLICABLE LOCAL BUILDING CODE. DESIGN, DOCUMENTATION, AND COORDINATION OF THE WORK RELATED TO THE FOLLOWING ARE THE RESPONSIBILITY OF THE OWNER AND THE CONTRACTORS: SITE WORK AND PAVING, ELECTRICAL SYSTEMS, PLUMBING SYSTEMS, HVAC SYSTEMS, MATERIAL SELECTIONS AND DESIGNATIONS, AND COMPLIANCE WITH APPLICABLE ZONING AND PLAT REGULATIONS.

GENERAL NOTES

- ALL CONTRACTORS SHALL REVIEW ALL DRAWINGS. ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR A COMPLETE REVIEW. ITEMS AFFECTING ALL TRADES ARE PLACED THROUGHOUT THIS SET OF DRAWINGS. ANY INCONSISTENCIES, CONTRADICTIONS, OMISSIONS, SHALL BE PRESENTED TO THE ARCHITECT DURING THE BIDDING PERIOD FOR CLARIFICATION.
- ANY MATERIAL OR LABOR, EITHER NOT SHOWN ON THE DRAWINGS OR NOT SPECIFIED, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK INTENDED TO BE PERFORMED SHALL BE FURNISHED WITHOUT COST TO THE OWNER OR ARCHITECT.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT TO FURNISH A COMPLETE JOB IN ACCORDANCE WITH ALL LOCAL AND STATE GOVERNING AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK AND THE METHOD OF CONSTRUCTION.
- THE ARCHITECT/ ENGINEER SHALL NOT BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION CHOSEN BY THE CONTRACTOR.
- ALL BID PACKAGE CONTRACTORS SHALL BE RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS & PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY & WILL NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE THE ARCHITECT IS RESPONSIBLE FOR HIS/HER OWN SAFETY, BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS.
- ALL BID PACKAGE CONTRACTORS SHALL VERIFY ALL DIMENSIONS (NEW & EXISTING) & ALL INFORMATION CONTAINED IN THESE DOCUMENTS. ALL CONTRACTORS SHALL VERIFY EXISTING CONDITIONS & REPORT ANY INCONSISTENCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. FAILURE TO DO SO WILL RELEASE THE ARCHITECT OF ALL RESPONSIBILITY. ANY CHANGES FROM THESE DOCUMENTS ARE THE SOLE RESPONSIBILITY OF EACH RESPECTIVE BID PACKAGE CONTRACTOR. THESE DRAWINGS ARE NOT TO BE SCALED.
- ALL BID PACKAGE CONTRACTORS SHALL VERIFY ALL DIMENSIONS (NEW & EXISTING) & ALL INFORMATION CONTAINED IN THESE DOCUMENTS. THE GW&L CONTRACTOR SHALL VERIFY EXISTING CONDITIONS & REPORT ANY INCONSISTENCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. FAILURE TO DO SO WILL RELEASE THE ARCHITECT OF ALL RESPONSIBILITY. ANY CHANGES FROM THESE DOCUMENTS ARE THE SOLE RESPONSIBILITY OF EACH RESPECTIVE BID PACKAGE CONTRACTOR. THESE DRAWINGS ARE NOT TO BE SCALED.
- THE BUILDING MUST BE CONSTRUCTED IN COMPLIANCE WITH THE ARCHITECTURAL BARRIERS ACT OF 1968, SECTION 504 OF THE REHABILITATION ACT OF 1973, AND THE AMERICAN WITH DISABILITIES ACT (ADA).

DESIGN TEAM:

ARCHITECT:



23 SOUTH CENTER STREET
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DRAWING INDEX

1	C0	COVER SHEET
2	L01	LIFE SAFETY
3	C1	SITE PLAN
4	D1	DEMO PLAN
5	S1	FOUNDATION NOTES, PLAN, & DETAILS
6	A1	FLOOR PLAN, DETAILS, & SCHEDULES
7	A2	ELEVATIONS & ROOF PLAN
8	A3	WALL & BUILDING SECTIONS
9	M1	MECHANICAL PLAN
10	E1	ELECTRICAL PLAN

SYMBOLS LEGEND

	ELEVATION
	WINDOW DESIGNATION
	DOOR DESIGNATION
	ROOM DESIGNATION
	ELEVATION
	CODED NOTE
	BID PACKAGE NUMBER
	SECTION

BID PACKAGES

	GENERAL WORK AND LABOR
	PLUMBING
	MECHANICAL
	ELECTRICAL

A NEW ADDITION
FOR THE
MIAMI COUNTY SHERIFF
TACTICAL VEHICLE STORAGE FACILITY
2050 NORTH COUNTY ROAD 25A
TROY, OHIO 45373

COVER SHEET

PROJECT NO.: 23010
DRAWN BY:
DATE: 04/12/2024
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CO
1 OF 10

SET NO:

OCCUPANCY SCHEDULE			
ROOM #	ROOM NAME	USE GROUP	OCCUPANCY LOAD
101	VEHICLE BAY	S-2 BUSINESS	2,400 SF. 100 GROSS 8 OCCUPANTS
	EXISTING BUILDING	S-2 BUSINESS	

SYMBOLS LEGEND	
	EXIT SIGN W/ EMERGENCY BATTERY PACK
	REMOTE EMERGENCY LIGHT
	EGRESS REMOTE HEAD LIGHT
	FIRE EXTINGUISHER
	PATH OF EGRESS

BUILDING CODE INDEX	
2024 OHIO BUILDING CODE 2019 OHIO MECHANICAL & PLUMBING CODE NFPA 10 2023 IBC A17.1 INTERNATIONAL ENERGY CONSERVATION CODE 2009-2013	2017 OHIO ENERGY CODE 2019 NFPA 101 LIFE SAFETY CODE 2017 NATIONAL ELECTRICAL CODE 2017 OHIO FIRE CODE ABAS5
OCCUPANCY CLASSIFICATION (PER SECTION 312)	S-2: STORAGE USE GROUP
CONSTRUCTION TYPE (PER TABLE 601)	V-B
FIRE RESISTANCE RATING FOR BUILDING ELEMENTS (PER TABLE 601)	BEARING WALLS: 0 HR NON-BEARING WALLS: 0 HR FLOOR CONSTRUCTION: 0 HR ROOF CONSTRUCTION: 0 HR
ALLOWABLE BUILDING AREA (PER TABLE 506.2)	13,500 SF. S-2 USE GROUP, NONSPRINKLERED
ACTUAL BUILDING AREA SF.	2,040 SF.
BUILDING HEIGHT/ALLOWABLE HEIGHT (PER TABLE 504.3)	40'-0"
ACTUAL BUILDING HEIGHT	40'-0" (BUILDING COMPLIES)
BUILDING STORIES/ALLOWABLE STORIES (PER TABLE 504.4)	S-2 USE GROUP = 2 STORY
ACTUAL BUILDING STORIES	1 STORY (BUILDING COMPLIES)
FIRE RESISTANCE RATING OF EXTERIOR WALLS (PER TABLE 602)	SEPARATION GREATER THAN 30'-0" FOR U USES + 0 HRS
TOTAL OCCUPANT LOAD (PER TABLE 1004.12) S-2 USE GROUP AREAS: SF/100	21 OCCUPANTS
EXITS REQUIRED PER STORY (PER TABLE 1006.3.1)	1-500 OCCUPANTS + 2 EXITS PER STORY
ACTUAL EXITS	1 (BUILDING COMPLIES)
MAXIMUM EXIT TRAVEL DISTANCE (PER TABLE 1017.2)	200'-0" NONSPRINKLERED
MAXIMUM ACTUAL EXIT ACCESS TRAVEL DISTANCE	75'-0" (BUILDING COMPLIES)
ACTUAL COMMON PATH OF TRAVEL	75'-0" (BUILDING COMPLIES)
GROUND SNOW LOAD	20 PSF
SNOW IMPORTANCE FACTOR (IS)	11
BASIC WIND SPEED (3 SECOND GUST)	120 MPH
WIND IMPORTANCE FACTOR (IW)	1.0
SEISMIC SITE CLASS (PER GEOTECH REPORT)	D
SEISMIC IMPORTANCE FACTOR (IE)	1.0

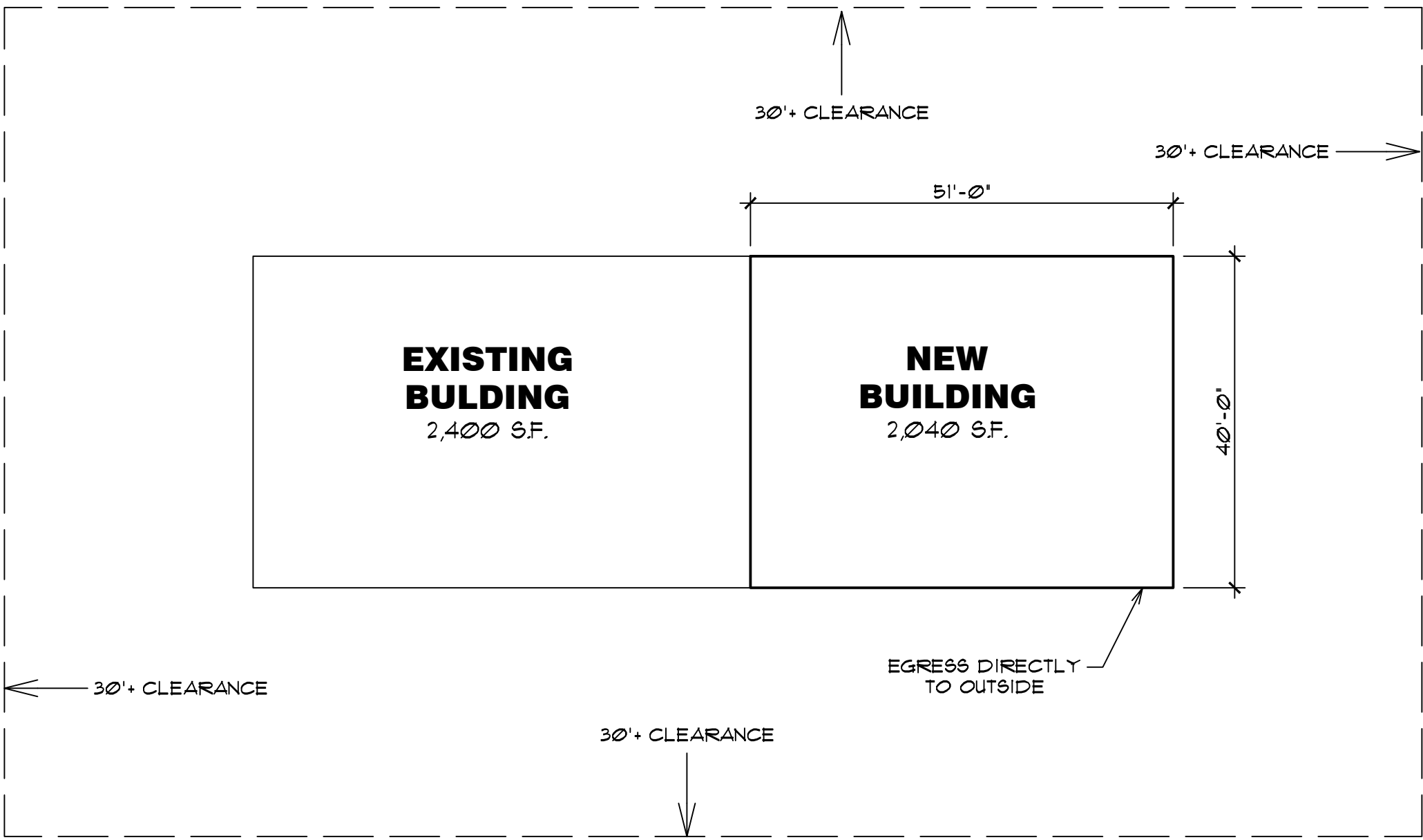
2024 OHIO BUILDING CODE

- CHAPTER 3: USE GROUP: S-2 (STORAGE). THIS BUILDING WILL BE USED FOR SHERIFF VEHICLE STORAGE. NO FLAMMABLE GAS, EXPLOSIVES OR HAZARDOUS MATERIALS WILL BE STORED IN BUILDING.
- CHAPTER 4: THIS OCCUPANCY WILL NOT INCLUDE MOTOR FUEL-DISPENSING FACILITIES (O.B.C. 406.6). MECHANICAL HEATING AND VENTILATION SHALL BE PER O.M.C. THE FLOOR SURFACE WITHIN THE VEHICLE STORAGE AREA SHALL BE CONCRETE. (O.B.C. 406.45)
- CHAPTER 5: ALLOWABLE AREA (PER TABLE 506.2) 13,500 SF. ACTUAL AREA: 2,040 SF. ALLOWABLE HEIGHT (PER TABLE 504): 40'-0" - 2 STORY. ACTUAL BUILDING HEIGHT: 40'-0" - 1 STORY.
- CHAPTER 6: CONSTRUCTION TYPE: V-B UNPROTECTED AND NONSPRINKLERED.
- CHAPTER 8: ALL INTERIOR FLOOR FINISHES SHALL COMPLY WITH THE FINISHES REQUIREMENTS OF O.B.C. 804.4
- CHAPTER 9: FIRE AREA "A" = 2,040 SF. (S-2 USE GROUP) PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH IFC (O.B.C. 906).
- CHAPTER 10: MAXIMUM OCCUPANT LOAD: REFER TO OCCUPANCY SCHEDULE. (BASED ON TABLE 1004.12) THIS BUILDING WILL NOT EXCEED OR APPROACH THE OCCUPANT LOAD AS DEFINED BY TABLE 1004.12. HARDWARE FOR ALL EGRESS DOORS SHALL MAINTAIN THE DOORS READILY OPERABLE FROM THE SIDE WHICH EGRESS IS BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT (O.B.C. 1009-1010). TRAVEL DISTANCES TO EXIT ACCESS TO COMPLY WITH OBC 1017.2 (MAXIMUM 200' WITHOUT SPRINKLERS)
- CHAPTER 11: ALL DOORS SHALL COMPLY WITH THE REQUIREMENTS OF THE O.B.C. SEE DOOR SCHEDULE. ALL BUILDING AND FACILITIES SHALL COMPLY WITH THE 2009 ICC A17.1 LISTED IN CHAPTER 11. PROVIDE SIGNAGE ADJACENT TO TOILET ROOM DOORS IN ACCORDANCE WITH 1111.1. DOORS SHALL NOT SWING INTO THE REQUIRED CLEAR FLOOR SPACE OF A PLUMBING FIXTURE. SIGNAGE SHALL BE INSTALLED AND COMPLY WITH OBC 1109.2 AND 2302.
- CHAPTER 12: EVERY ROOM OR SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL OR MECHANICAL VENTILATION. (O.B.C. 1203.4)
- CHAPTER 14: EXTERIOR WALLS SHALL COMPLY WITH OBC 1403.2 & 1405.112
- CHAPTER 15: ROOF DRAINAGE IS PER THE OHIO PLUMBING CODE.
- CHAPTER 24: ALL DOORS SHALL HAVE SAFETY GLAZING PER O.B.C. 2406.2.
- CHAPTER 27: ALL ELECTRICAL WORK WILL COMPLY WITH THE REQUIREMENTS OF CHAPTER 27 O.B.C. AND THE NATIONAL ELECTRICAL CODE (N.E.C.) AND NFPA 10.
- CHAPTER 28: ALL MECHANICAL WORK WILL COMPLY WITH THE REQUIREMENTS OF CHAPTER 28 O.B.C.
- CHAPTER 29: PLUMBING FIXTURES PER TABLE 2902.1

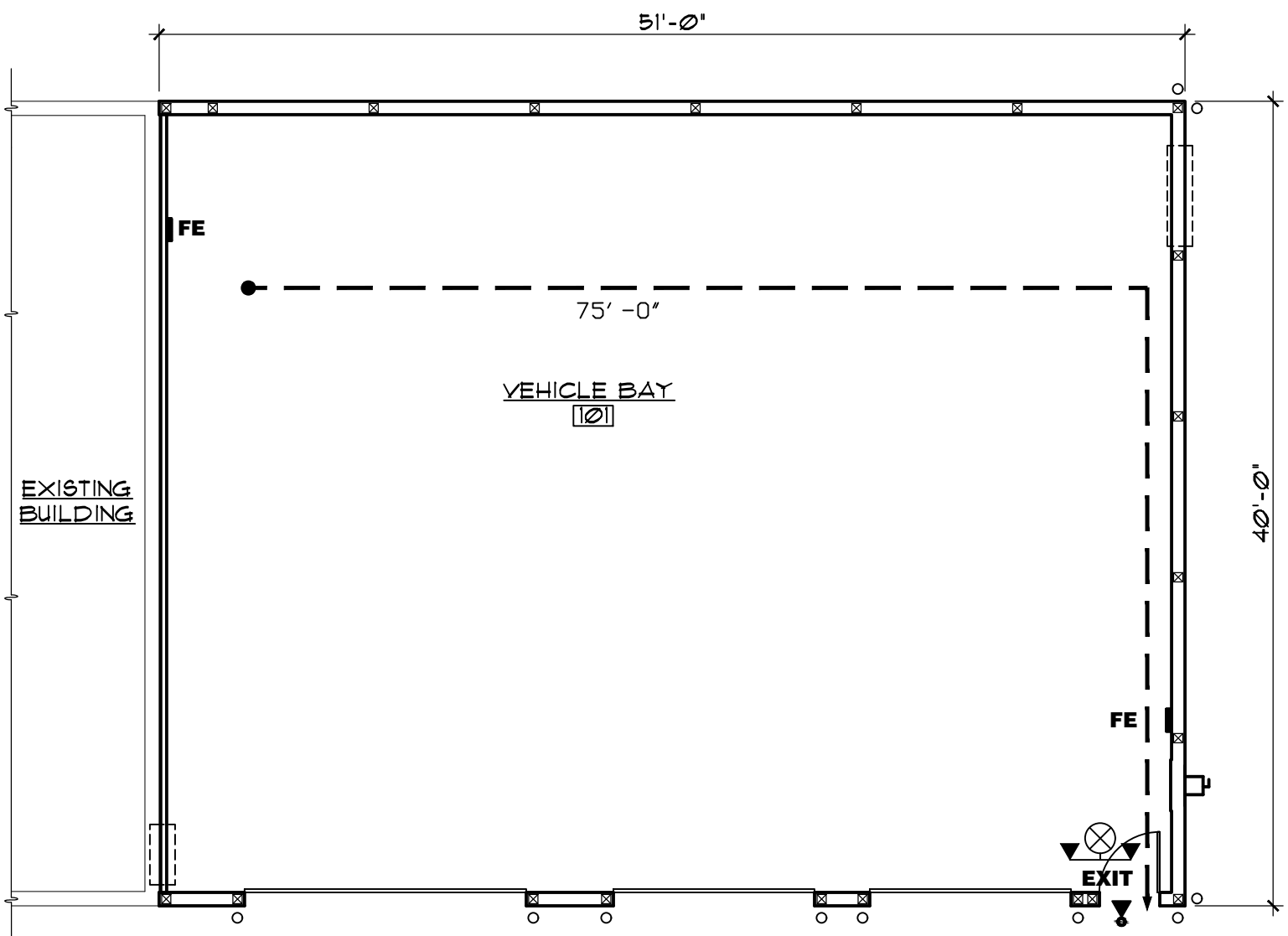
23 South Center Street
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REVISIONS:



OCCUPANCY PLAN
SCALE: 1/16"=1'-0" TOTAL SF. - 2400



LIFE SAFETY PLAN
SCALE: 1/8"=1'-0"

	REQD PLUMBING FIXTURES (TABLE 2902.1 OBC)	FIXTURES REQUIRED IN NEW BUILDING	ACTUAL FIXTURES TO BE INSTALLED
WATER CLOSET	S-2	S-2 (21)	S-2 (0)
LAVATORY	1/100	1	-
BATH / SHOWER	-	-	-
DRINKING FNTN.	1/1000	1	1
SERVICE SINK	1	1	0

* PER SECTION 2902.1 OF THE O.B.C. PLUMBING FIXTURES ARE NOT REQUIRED WHEN FIXTURES ARE AVAILABLE WITHIN 500 FEET OF THE BUILDING. THERE ARE FIXTURES AVAILABLE IN THE EXISTING SHERIFF'S BUILDING LOCATED LESS THAN 500 FEET AWAY.

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TROY, OHIO 45373

LIFE SAFETY PLAN

PROJECT NO.: 23010
DRAWN BY:
DATE: 04/12/2024
CHECKED BY:

LS1
2 OF 10

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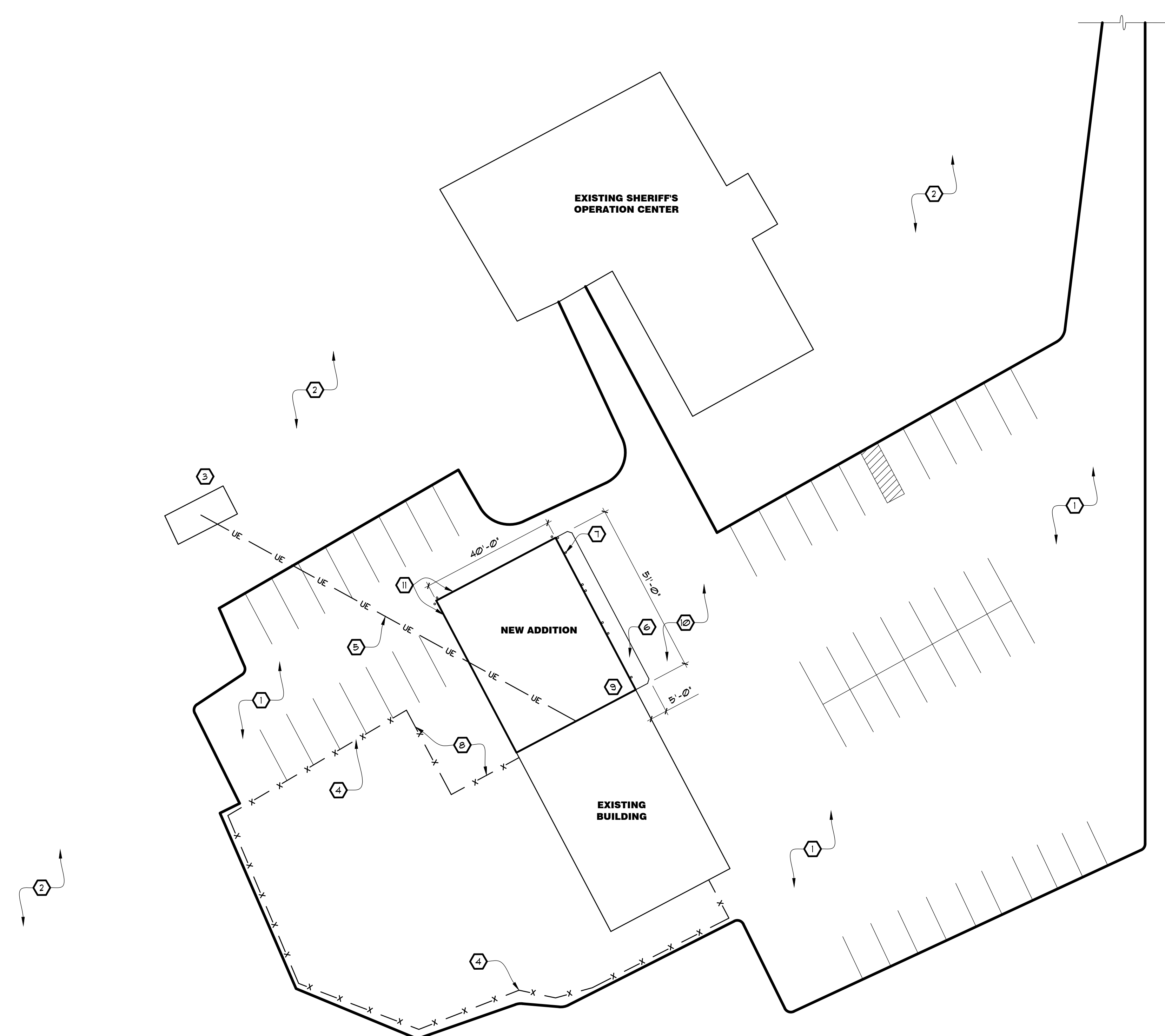
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GENERAL NOTES:

- A. ALL CONTRACTORS ARE RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS.
- B. THE GW4L CONTRACTOR IS RESPONSIBLE FOR EXCAVATION OF, PREPARING THE PAD FOR THE SLAB AND GRADING AROUND THE NEW BUILDING. ALL GRADING AND RE-WORK OF ELEVATIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER.
- C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS & LAYOUT OF WALLS.
- D. GW4L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF THE NEW BUILDING. GW4L CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR EXACT LOCATION OF THE NEW BUILDING. GW4L CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS FOR THE LOCATION AND ELEVATION OF THE NEW BUILDING.
- E. GW4L CONTRACTOR SHALL PROVIDE AND INSTALL 6" STORM PIPING TO CONNECT TO ALL DOWNSPOUTS AND EXTEND TO NEAREST CATCH BASIN OR STORM STRUCTURE.
- F. ALL DISTURBED AREAS SHALL BE REPAIRED, PATCHED, AND BROUGHT BACK TO ORIGINAL CONDITION.
- G. ALL MUD AND DIRT TRACKED ONTO THE EXISTING PAVEMENT SHALL BE CLEANED ASAP AND DAILY.
- H. ALL CONSTRUCTION MUST BE COMPLETED AND COORDINATED WITH OWNER TO ALLOW CONTINUOUS USE BY OWNER.
- I. PROVIDE AND INSTALL EROSION CONTROL AS REQUIRED BY GOVERNMENT STANDARDS.

CODED NOTES:

- ① EXISTING ASPHALT PAVEMENT PARKING AREA. CONTRACTORS SHALL PROTECT AS REQUIRED DURING CONSTRUCTION.
- ② EXISTING GRASS AREA. PROTECT AS REQUIRED DURING CONSTRUCTION.
- ③ EXISTING COMMUNICATIONS TOWER. PROTECT AS REQUIRED DURING CONSTRUCTION.
- ④ EXISTING FENCE. PROTECT AS REQUIRED DURING CONSTRUCTION. REMOVE AND MODIFY FENCE PER CONSTRUCTION PURPOSES.
- ⑤ EXISTING UNDERGROUND CONDUIT TO REMAIN. PROTECT AS REQUIRED DURING CONSTRUCTION. VERIFY LOCATION AND DEPTH PRIOR TO EXCAVATION.
- ⑥ 6" POURED CONCRETE APRON OVER 8" COMPACTED STONE WITH W2.1 X W2.1 WJM. CHAMFER ON EACH CORNER.
- ⑦ INSTALL NEW PIPE BOLLARDS, CONCRETE FILLED AND PAINTED. SEE DETAIL 4/A1.
- ⑧ CONTRACTOR SHALL REMOVE A PORTION OF EXISTING FENCE TO ALLOW FOR CONSTRUCTION OF NEW BUILDING. CONTRACTOR SHALL INSTALL A TEMPORARY FENCE TO CREATE A CONTINUOUS SECURE AREA DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE LOCATION OF TEMPORARY FENCE LOCATION WITH OWNER AND ARCHITECT. CONTRACTOR SHALL REMOVE TEMPORARY FENCE AT END OF CONSTRUCTION AND INSTALL NEW FENCE TO MATCH EXISTING WHERE ORIGINAL FENCE WAS REMOVED.
- ⑨ EXISTING ELECTRICAL CONDUIT ENTERING INTO EXISTING STORAGE BUILDING ORIGINATING FROM EXISTING BLOCK GARAGE. LOCATE AND PROTECT AS REQUIRED DURING CONSTRUCTION.
- ⑩ PATCH EXISTING ASPHALT PAVEMENT AND PROVIDE NEW ASPHALT PAVEMENT ALONG FRONT OF NEW BUILDING ADDITION.
- ⑪ PATCH AND EXTEND NEW ASPHALT PAVEMENT TO NEW BUILDING ADDITION. SAW CUT EXISTING ASPHALT PAVEMENT TO CREATE A CLEAN, STRAIGHT LINE AND SEAL WITH HOT A/C.



SITE PLAN
SCALE: 1"=20'-0"

23 South Center Street
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REVISIONS:

A NEW ADDITION
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TACTICAL VEHICLE STORAGE FACILITY
2050 NORTH COUNTY ROAD 25-A
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SITE PLAN

PROJECT NO.: 23010
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C1
3 OF 10

**ALL WORK ON THIS SHEET BY 1A
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- ⑤ EXISTING UNDERGROUND CONDUIT TO REMAIN. PROTECT AS REQUIRED DURING CONSTRUCTION. VERIFY LOCATION AND DEPTH PRIOR TO EXCAVATION.
- ⑥ EXISTING CONCRETE BLOCK BUILDING TO BE DEMOLISHED AND REMOVED. ALL BUILDING MATERIALS SHALL BE REMOVED FROM SITE INCLUDING CONCRETE SLAB, CONCRETE BLOCK WALLS, ROOF, TRUSS AND FOUNDATION.
- ⑦ REMOVED EXISTING FENCE IN PREPARATION OF NEW BUILDING.



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2050 NORTH COUNTY ROAD 25-A
TROY, OHIO 45373

DEMOLITION PLAN

PROJECT NO: 23010
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D1
4 OF 10

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DEMO PLAN
SCALE: 1"=20'-0"

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GENERAL STRUCTURAL NOTES

GOVERNING CODE
2024 OHIO BUILDING CODE

DESIGN LOADS

1. ROOF LOAD:	
A. MINIMUM COMBINATION OF WIND LOAD, LIVE LOAD, RAIN LOAD, OR SNOW LOAD (P)	20PSF*
B. ROOF DEAD LOAD	15PSF**
TOTAL LOAD ON ROOF FRAMING	40PSF MIN.

*GROUND SNOW P_s = 20 PSF MODIFIED BY APPLICABLE DRIFT COEFFICIENTS. SNOW LOAD IMPORTANCE FACTOR I = 1.2
**LOADS INDICATED ARE MINIMUM LOADS AND SHALL BE INCREASED AS NECESSARY TO ACCOUNT FOR ALL BUILDING CODE REQUIREMENTS AND BUILDING COMPONENTS AND SYSTEMS (MECHANICAL, ELECTRICAL, PLUMBING, ETC.). IT IS THE BUILDING ENGINEERS RESPONSIBILITY TO ENSURE THAT ALL DESIGN LOADS MEET BUILDING REQUIREMENTS AND ARE ACCOUNTED FOR IN THE DESIGN OF THE BUILDING FRAMING.

2. WIND LOAD:

- A. BASIC WIND SPEED (BASED ON 3-SECOND GUST) = 120 MPH (ULTIMATE)
- B. RISK CATEGORY = IV
- C. WIND EXPOSURE = C (ALL WIND DIRECTIONS)
- D. INTERIOR PRESSURE COEFFICIENT, G_{pi} = +0.18, -0.18
- E. DESIGN PRESSURES FOR EXTERIOR COMPONENT AND CLADDING ITEMS NOT DESIGNED BY THE ENGINEER OF RECORD. SPECIALTY ENGINEER SHALL DETERMINE WIND LOADS UNDER GOVERNING BUILDING CODE, AND BASED ON WIND LOAD PARAMETERS DEFINED ABOVE.

3. SEISMIC LOAD:

A. RISK CATEGORY	=	IV
B. SPECTRAL RESPONSE COEFFICIENT SDS	=	0.128
C. SPECTRAL RESPONSE COEFFICIENT SD1	=	0.101
D. SITE CLASS	=	D
E. SEISMIC DESIGN CATEGORY	=	C

4. PRE-ENGINEERED POST FRAME BUILDING FOUNDATION:

- A. ESTIMATED FOUNDATION REACTIONS ARE BASED ON LOADS INDICATED ABOVE AND ASSUMED POST LOCATIONS. FOUNDATION DESIGN IS PRELIMINARY UNTIL FOUNDATION REACTIONS ARE SUBMITTED AND APPROVED BY CLARK REDER ENGINEERING, INC. BUILDING REACTIONS SHALL BE SUBMITTED BY THE BUILDING ENGINEER/MANUFACTURER FOR APPROVAL PRIOR TO FABRICATION AND CONSTRUCTION OF THE BUILDING FRAME.

CONSTRUCTION AND SAFETY

1. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
2. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.
3. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.
4. PRIOR TO COMMENCEMENT OF PRE-ENGINEERED POST FRAME BUILDING ERECTION, FOUNDATION CONTRACTOR MUST PROVIDE THE BUILDING ERECTOR WRITTEN NOTIFICATION THAT THE CONCRETE IN THE FOOTINGS HAS ATTAINED SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED DURING ERECTION.
5. ANCHOR RODS/BOLTS SHALL NOT BE REPAIRED, REPLACED OR FIELD-MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

FOUNDATIONS

1. ALL FOOTINGS SHALL BEAR ON SUITABLE NATIVE COHESIVE SOILS, OR NEWLY PLACED STRUCTURAL FILL, OR LEAN CONCRETE THAT EXTENDS TO SUITABLE NATIVE SOIL. FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 2000 PSF.
2. FOUNDATION ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES AND MAY VARY TO SUIT SUB-SURFACE SOIL CONDITION. ELEVATION AND BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR LOW STRENGTH CONCRETE (500 PSI) UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS.
3. FOOTINGS MAY BE PLACED WITHOUT SIDE FORMS IF EXCAVATED WALLS STAND APPROXIMATELY VERTICAL.
4. CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.
5. FILL AND BACK FILL:
 - A. ALL FILL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL CONSULTANT.
 - B. ENGINEERED FILL BENEATH FOOTINGS: MINIMUM COMPACTION 98% STANDARD PROCTOR DENSITY AT THE OPTIMUM MOISTURE CONTENT.
 - C. BACKFILL AGAINST WALLS:
 - 1. BACKFILL ALONG INTERIOR FACE OF FOUNDATION WALLS SHALL BE:
 - a. CLAYEY MATERIAL COMPACTED IN 6" LIFTS TO 98% STANDARD PROCTOR DENSITY OR CONCRETE WITH A COMPRESSIVE STRENGTH OF f_c = 500 PSI
 - b. WELL GRADED GRANULAR MATERIAL COMPACTED IN 6" LIFTS, AT THE BOTTOM OF THE GRANULAR BACKFILL PLACE A 4" DIAMETER PERFORATED FOUNDATION DRAIN PIPE. PROVIDE A POSITIVE SLOPE TO DAYLIGHT OR TO SUMP.
 - 2. BACKFILL ALONG EXTERIOR FACE OF SHALLOW WALL FOUNDATIONS TO BE:
 - a. COMPACTED CLAYEY MATERIAL, COMPACT TO 98% STANDARD PROCTOR
 - b. COMPACTED GRANULAR MATERIAL WITH 4" DIAMETER FOUNDATION DRAIN AT THE BOTTOM OF THE GRANULAR MATERIAL. DRAIN TO HAVE POSITIVE SLOPE TO DAYLIGHT OR TO SUMP.
- D. FILL BELOW FLOOR SLABS:
 - 1. PROVIDE COMPACTED GRANULAR MATERIAL BELOW FLOOR SLAB AS INDICATED IN DOCUMENTS.
 - 2. TOP 12" OF SUBBASE BELOW INTERIOR FLOOR SLAB TO BE PROOF ROLLED TO 98% STANDARD PROCTOR DENSITY PRIOR TO PLACEMENT OF SLAB.
6. ALL AREAS WITHIN THE FOOTPRINT OF THE BUILDING, INCLUDING UTILITY TRENCHES, MUST BE FREE OF ANY WET AND/OR SOFT AREAS PRIOR TO PLACEMENT OF FILL MATERIAL OR SLAB.
7. SEAL UTILITY TRENCH AT THE EXTERIOR FOUNDATION WALL BY USING A COMPACTED CLAYEY BACKFILL OR LEAN CONCRETE TO CREATE A DAM TO PREVENT ENTRY OF WATER.
8. FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION.

CONCRETE

1. CONCRETE WORK AND TESTING, AS PERFORMED BY "QUALIFIED FIELD TESTING TECHNICIANS" AND "QUALIFIED LABORATORY TECHNICIANS", SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-10, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW. REPORTS FROM TESTS REQUIRED BY SECTION 1.6 OF ACI 301-10 SHALL BE SUBMITTED TO STRUCTURAL ENGINEER, ARCHITECT, OWNER, CONTRACTOR, CONCRETE SUPPLIER, AND BUILDING OFFICIAL.
2. CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1-90 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" AND ACI 308R-10 "COLD WEATHER CONCRETING".
3. CONCRETE WORK IN HOT WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305R-10 "HOT WEATHER CONCRETING". THE AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE, AND WIND VELOCITY SHALL BE ENTERED INTO NOMOGRAPH FIGURE 2.1.5 TO DETERMINE IF PRECAUTIONS AGAINST MIX SHRINKAGE ARE REQUIRED.
4. CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR EACH TYPE OF CONCRETE TO THE STRUCTURAL ENGINEER FOR APPROVAL IN ACCORDANCE WITH ACI 301-10 SECTION 4.2.3.4 FIELD TEST DATA OR TRIAL MIXTURES. SUBMITTAL DATA MUST INCLUDE FIELD TEST DATA FROM AT LEAST 10 TESTS OR A THREE POINT CURVE GENERATED USING TRIAL MIXTURES.
5. SUBMIT SHOP DRAWINGS OF REINFORCING STEEL.
6. MATERIALS: (f_c BASED ON 28 DAY UNLESS NOTED)
 - A. CONCRETE UNLESS NOTED: f_c = 4000 PSI, NORMAL WEIGHT AGGREGATE.
 - B. CONCRETE FOR OTHER INTERIOR FLOOR SLABS: f_c = 4000 PSI AT 28 DAYS, 1800 PSI AT 3 DAYS, NORMAL WEIGHT AGGREGATE. MINIMUM CEMENTITIOUS-MATERIALS CONTENT PER ACI 301-10 TABLE 4.2.2.1, PLASTICIZING OR WATER REDUCING ADMIXTURE REQUIRED, MAXIMUM WATER/CEMENTITIOUS RATIO = 0.50.
 - C. CONCRETE FOR EXTERIOR FLAT WORK, WALKS, ETC.: f_c = 4500 PSI, (4.5% TO 7.5% ENTRAINED AIR), MAXIMUM WATER/CEMENTITIOUS RATIO = 0.45. LIMIT POZZOLAN CONTENT PER ACI 301-10 TABLE 4.2.2.8.
 - D. CONCRETE FOR FOUNDATION WALLS WITH EXTERIOR EXPOSURE: f_c = 4000 PSI, (4.5% TO 7.5% ENTRAINED AIR), MAXIMUM WATER/CEMENTITIOUS RATIO = 0.50.
 - E. CONCRETE FOR FOOTINGS: f_c = 3000 PSI.
7. REINFORCING STEEL: ASTM A615 60 KSI YIELD DEFORMED BARS AND ASTM A185 WELDED WIRE FABRIC. FLAT SHEETS ONLY.
 - F. FLY ASH: ASTM C618, TYPE F OR C. WHEN USED, FLY ASH-TOTAL CEMENTITIOUS RATIO SHALL BE 15% MINIMUM.
 - G. GROUND GRANULATED BLAST FURNACE SLAG: ASTM C989. TOTAL GROUND GRANULATED BLAST FURNACE SLAG -TO- TOTAL CEMENTITIOUS RATIO SHALL NOT EXCEED 50% MAXIMUM.
 - H. FLY ASH, NATURAL POZZOLANS, SILICA FUME, OR GROUND GRANULATED BLAST FURNACE SLAG: WHEN EXPOSED TO DEICING CHEMICALS, LIMIT THE MAXIMUM WEIGHT TO THE PERCENTAGES OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS GIVEN IN TABLE 4.2.2.8 OF ACI 301-10.
 - I. PLASTICIZING ADMIXTURE: ASTM C1017.
 - J. WATER REDUCING ADMIXTURE: ASTM C494.
 - K. CHLORIDE CONTENT OF CONCRETE: LIMIT TOTAL CHLORIDE ION CONTENT TO AMOUNT INDICATED IN TABLE 4.2.2.6 OF ACI 301-99. ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.
8. IF CONCRETE ARRIVES AT THE POINT OF DELIVERY WITH A SLUMP BELOW THAT WHICH WILL RESULT IN THE SPECIFIED SLUMP AT THE POINT OF PLACEMENT AND IS UNSUITABLE FOR PLACING AT THAT SLUMP, THE SLUMP MAY BE ADJUSTED ONCE UPON TO THE REQUIRED VALUE BY ADDING WATER UP TO THE AMOUNT ALLOWED IN THE ACCEPTED MIXTURE PROPORTIONS. ADDITION OF WATER SHALL BE IN ACCORDANCE WITH ASTM C94. DO NOT EXCEED THE SPECIFIED WATER-CEMENTITIOUS MATERIAL RATIO OR SLUMP IN THE APPROVED MIX DESIGN. DO NOT ADD WATER TO CONCRETE DELIVERED IN EQUIPMENT NOT ACCEPTABLE FOR MIXING. AFTER PLASTICIZING OR WATER REDUCING ADMIXTURES ARE ADDED TO THE CONCRETE AT THE SITE TO ACHIEVE FLOWABLE CONCRETE, DO NOT ADD WATER TO THE CONCRETE. MEASURE SLUMP (AND AIR CONTENT OF AIR ENTRAINED CONCRETE), AFTER SLUMP ADJUSTMENT, TO VERIFY COMPLIANCE WITH SPECIFIED REQUIREMENTS.

8. SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF ADMIXTURES AND AFTER THE ADDITION OF ADMIXTURES.
9. LAP SPlice REINFORCING BARS AS FOLLOWS UNLESS NOTED OTHERWISE:
 - A. HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW: 62 BAR DIAMETERS
 - B. HORIZONTAL BARS WITH LESS THAN 12" OF CONCRETE BELOW, AND ALL OTHER BARS - 50 BAR DIAMETERS
10. REINFORCING BARS SHALL BE FREE OF FORM RELEASE AGENTS.
11. AT CORNERS AND INTERSECTIONS OF FOOTINGS, WALLS AND GRADE BEAMS, PROVIDE BENT BARS OF EQUAL SIZE AND AT SAME SPACING AS TYPICAL REINFORCING AROUND CORNER AND/OR INTO ABUTTING FOOTING, WALL OR GRADE BEAM. BARS SHALL HAVE EMBEDMENT OF 30 DIAMETERS (18" MIN.).
12. MACHINE TROWEL FINISH FLOOR SLAB AND CURE USING "CURE AND SEAL" TYPE CURING COMPOUND MEETING ASTM C1315, VOC COMPLIANT, 25% MINIMUM SOLIDS CONTENT. FOR APPLICATIONS EXPOSED TO SUNLIGHT USE LIGHT BROOM FINISH AND ACRYLIC BASED CURING COMPOUND.
13. FLOOR SLAB-ON-GRADE SHALL CONFORM TO THE FOLLOWING SURFACE PROFILE TOLERANCES PER ASTM E-1155 AND ACI 117:

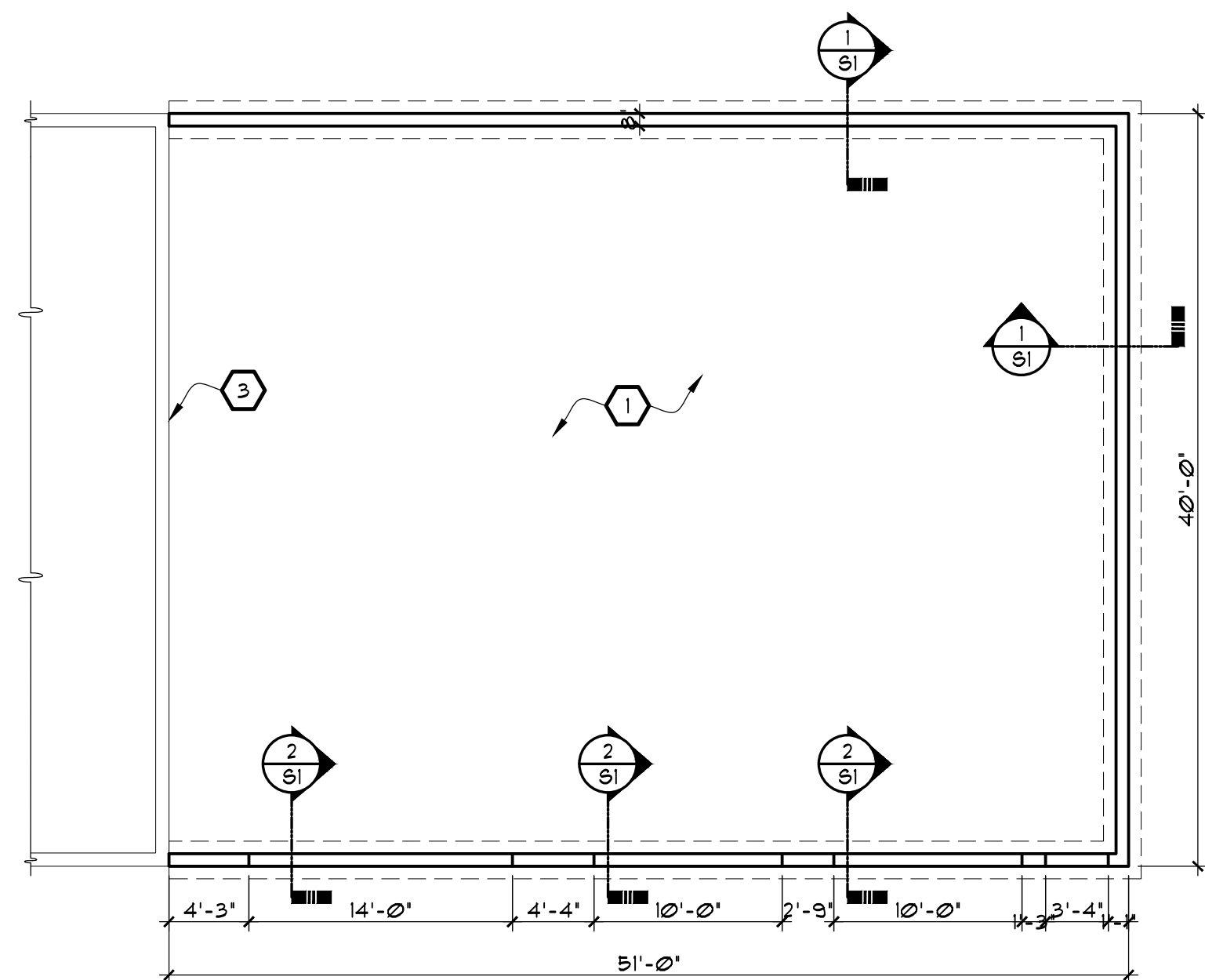
	F (FLATNESS)	F (LEVELNESS)
SPECIFIED OVERALL VALUE	25	20
MINIMUM LOCAL VALUE	18	13
MAXIMUM GAP UNDER 10 FT. UNLEVELLED STRAIGHT EDGE = 1/4"		
14. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR VAPOR BARRIER REQUIREMENTS. VAPOR BARRIER, WHERE REQUIRED, SHALL BE PLACED OVER COMPACTED GRANULAR SUBBASE.
15. AT SLAB AND WALL OPENING CORNERS AND REENTRANT CORNERS, PROVIDE (1) #5 BAR IN EACH FACE PARALLEL TO EACH EDGE EXTENDING A MINIMUM OF 2'-0" PAST EDGE OF OPENING. THIS STEEL MAY BE OMITTED IF TYPICAL WALL STEEL EXCEEDS THIS MINIMUM REQUIREMENT.
16. REINFORCE ALL INTERIOR SLABS ON GROUND WITH WELDED WIRE FABRIC AS INDICATED IN DRAWINGS. LOCATE WELDED WIRE FABRIC 2" CLEAR BELOW TOP OF SLAB.
17. LAP WELDED WIRE FABRIC MINIMUM 1 FULL SPACE PLUS 2"
18. FINISH OF CONCRETE HANDICAP RAMPS TO CONFORM WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
19. CONTROL JOINTS IN SLABS ON GROUND SHALL BE LOCATED AT 15'-0" MAXIMUM SPACING AND SHALL CREATE SECTIONS OF SLAB WITH A MAXIMUM ASPECT RATIO OF 1.5:1. CONTROL JOINTS SHALL BE SAWN AND SHALL BE A MINIMUM OF 1/4" OF THE SLAB THICKNESS DEEP. THE CONTROL JOINTS SHALL BE SAWN AS SOON AS THE SAW BLADE CAN CUT THE CONCRETE WITHOUT DISPLACING THE AGGREGATE. CUT EVERY OTHER MESH WIRE AT THE CONTROL JOINT LOCATION PRIOR TO PLACING CONCRETE. IF AN EARLY-CUTTING SAW IS BE USED AND A SHALLOWER DEPTH OF THE CUT IS DESIRED, CONTACT THE ENGINEER IN ADVANCE FOR APPROVAL.
20. CONSTRUCTION JOINTS IN SLABS ON GROUND MAY BE LOCATED AT ANY CONTROL JOINT LOCATION. CONSTRUCTION JOINTS SHALL HAVE A KEY FORMED AT MID-DEPTH OF THE FIRST CAST SECTION. THE KEY SHALL BE 1-1/2" DEEP AND SHALL BE 1/3 OF THE SLAB THICKNESS HIGH. THE TOP AND BOTTOM OF THE KEY SHALL HAVE 1 VERTICAL TO 3 HORIZONTAL SLOPE.
21. FILL CONTROL AND CONSTRUCTION JOINTS IN TRAFFIC AREAS WITH SEMI-RIGID EPOXY JOINT FILLER WITH A DUROMETER SHORE A-SCALE HARDNESS NUMBER OF APPROXIMATELY 80. FILL CONTROL AND CONSTRUCTION JOINTS IN NON-TRAFFIC AREAS WITH ELASTOMERIC SEALANT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
22. PROVIDE 3/4" CHAMFER AT CORNERS OF EXPOSED CONCRETE.
23. WHERE BRITTLE FLOOR FINISHES ARE TO BE APPLIED TO FLOOR SLABS, COORDINATE CONTROL JOINT LOCATIONS WITH FLOOR FINISH JOINT LOCATIONS AND ARCHITECT.

EXPANSION ANCHORS

1. EXPANSION ANCHORS SHALL BE MANUFACTURED BY HILTI OR DEWALT AND SHALL BE THE SIZE, AND EMBEDMENT INDICATED ON DRAWINGS. EXPANSION ANCHORS SHALL BE SLEEVE ANCHORS WHEN EMBEDDED INTO MASONRY AND HILTI KWIK BOLT T2 OR DEWALT POWER-STUD-502 WHEN EMBEDDED INTO CONCRETE, UNLESS OTHERWISE NOTED. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUBSTITUTES MAY BE CONSIDERED, SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.
2. FOR CONNECTIONS TO EXISTING REINFORCED CONCRETE, VERIFY THE LOCATIONS OF THE REINFORCING USING A REBAR DETECTOR, PRIOR TO DRILLING. NOTIFY THE ENGINEER IF ANCHOR LOCATIONS CONFLICT WITH EXISTING REINFORCING. DO NOT DRILL THROUGH EXISTING REINFORCING BARS.
3. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 305.2 AND ICC-ES AC193 FOR CRACKED, UNCRACKED, AND SEISMIC CONCRETE RECOGNITION.

EPOXY ADHESIVE ANCHORS

1. EPOXY ADHESIVE FOR CONCRETE SHALL BE HILTI-RE 500 V3 OR DEWALT PURE 110+. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SUBSTITUTES MAY BE CONSIDERED, SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.
2. THREADED RODS SHALL BE ASTM A36, UNLESS NOTED OTHERWISE. SIZES AND EMBEDMENT ARE AS INDICATED ON THE DRAWINGS.
3. DRILL HOLES WITH A COARSE CUTTING ROCK CHISEL USING PNEUMATIC PERCUSSION EQUIPMENT EQUIPPED WITH HOLLOW STEM DRILL ROD AND CONTINUOUS AIR JET TO REMOVE CUTTINGS. BLOW OUT HOLES WITH COMPRESSED AIR OR VACUUM TO REMOVE ALL DUST AND CHIPS.
4. TWENTY PERCENT OF INSTALLED ANCHORS SHALL BE TESTED BY A TESTING AGENCY USING A TORQUE-CALIBRATED WRENCH TO A MINIMUM TORQUE OF 60 FOOT-POUNDS. THE TESTING AGENCY SHALL ALSO VERIFY COMPLIANCE OF DRILL BIT TYPE, HOLE DEPTH AND CLEANLINESS, PRODUCT DESCRIPTION AND BRAND NAME, ANCHOR DIAMETER, LENGTH, AND TYPE, ADHESIVE EXPIRATION DATE, AND VERIFICATION OF ANCHOR INSTALLATION WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS.
5. FOR CONNECTIONS TO EXISTING REINFORCED CONCRETE, VERIFY THE LOCATIONS OF THE REINFORCING USING A REBAR DETECTOR, PRIOR TO DRILLING. NOTIFY THE ENGINEER IF ANCHOR LOCATIONS CONFLICT WITH EXISTING REINFORCING. DO NOT DRILL THROUGH EXISTING REINFORCING BARS.
6. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS IN ACCORDANCE WITH ACI 318-14 17.1.2. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 305.4 AND ICC-ES AC308 FOR CRACKED, UNCRACKED, AND SEISMIC CONCRETE RECOGNITION.



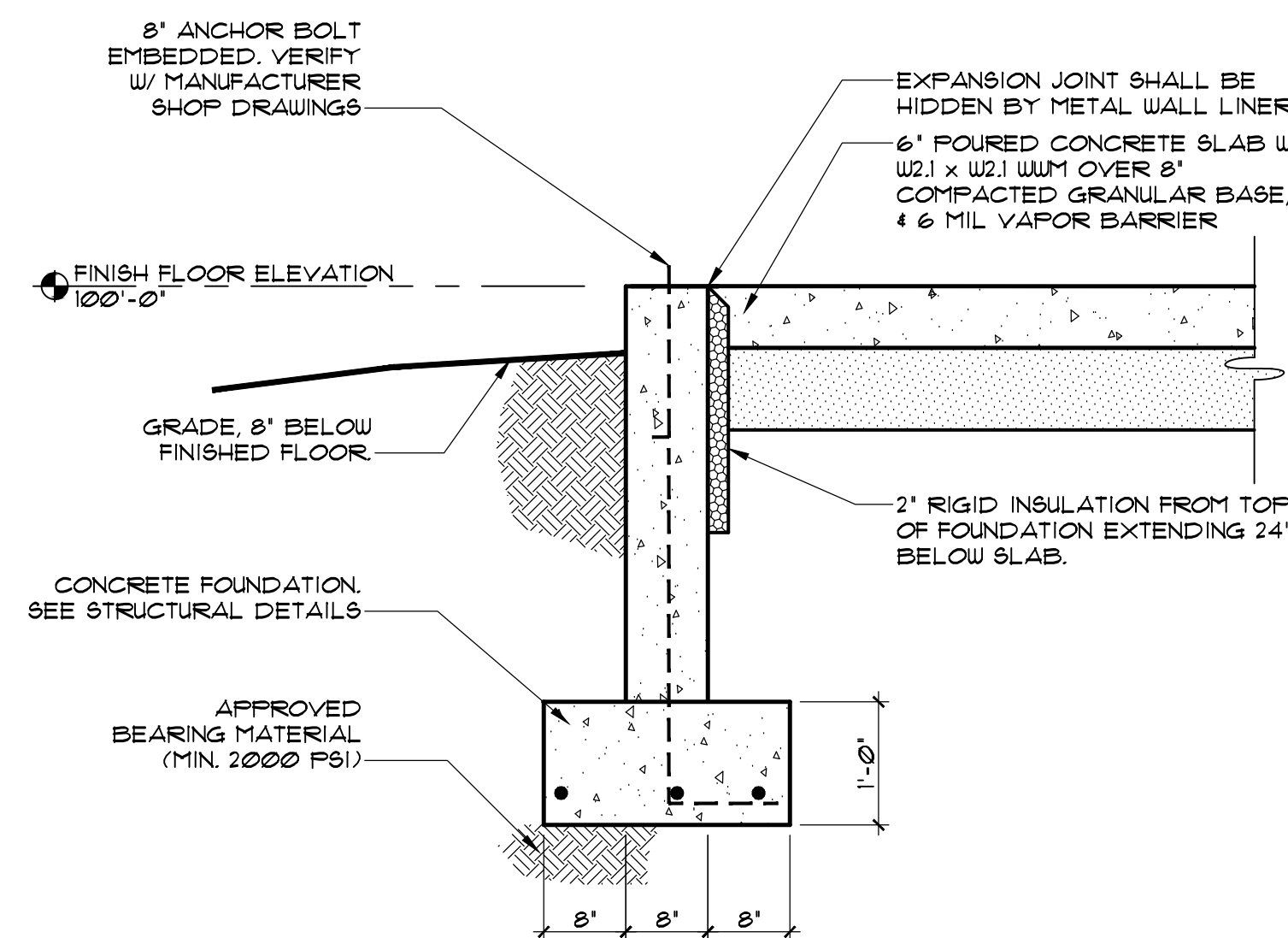
FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

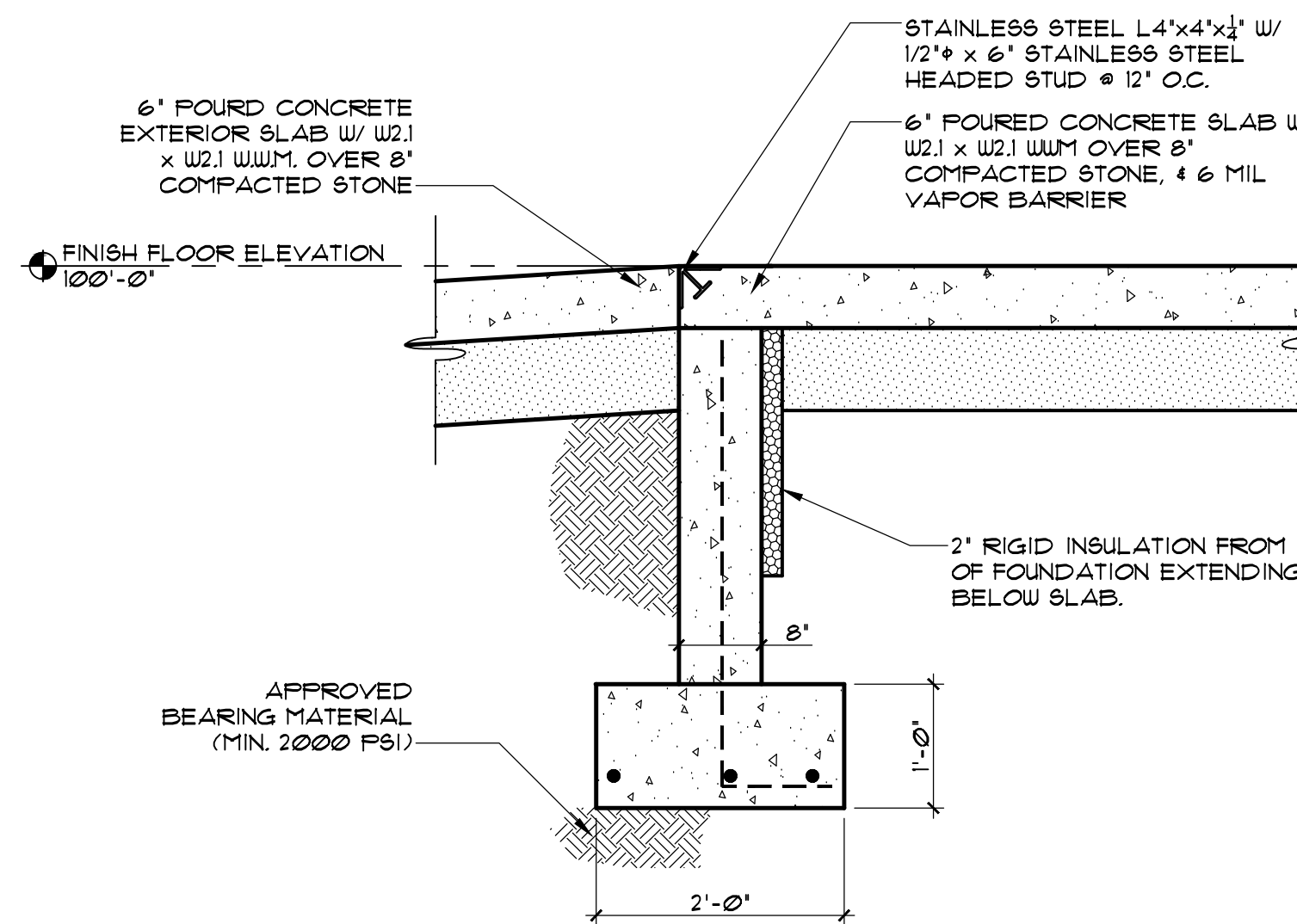
- A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS & SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS & SPECIFICATIONS.
- B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED & SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.
- C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS.
- D. G/W/L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS. ALL CONTRACTORS SHALL COORDINATE THEIR ROUGH IN WITH THE G/W/L CONTRACTOR.
- 16A E. THE NATIONAL ELECTRIC CODE REQUIRES THAT THE ELECTRICAL SYSTEM BE GROUNDED TO THE METAL REINFORCING IN THE CONCRETE FOOTINGS. COORDINATE PLACEMENT OF REBAR AND CONCRETE WITH THE ELECTRICAL CONTRACTOR.
- F. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAY'S END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE CONTRACTOR.

CODED NOTES:

- 1 6" FOUNDED CONCRETE SLAB OVER 8" COMPACTED STONE W/ W2.1xW2.1 W/M, AND 6 MIL VAPOR BARRIER.
- 2 FOUR CONCRETE SLAB THROUGH DOOR OPENING AT FOUNDATION. SEE DETAIL 2/S1.
- 3 FOUR THICKENED SLAB AT EXISTING BUILDING TO A DEPTH OF 12".



FOUNDATION SECTION
SCALE: 3/4" = 1'-0"



FOUNDATION OVERHEAD DOOR SECTION
SCALE: 3/4" = 1'-0"

ALL WORK ON THIS SHEET BY 1A UNLESS OTHERWISE NOTED.

WDC GROUP

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REVISIONS:

A NEW ADDITION
FOR THE
MIAMI COUNTY SHERIFF
TACTICAL VEHICLE STORAGE FACILITY
2050 NORTH COUNTY ROAD 25-A
TROY, OHIO 45373

FOUNDATION PLAN AND DETAILS

PROJECT NO: 23010
DRAWN BY:
DATE: 04/12/2024
CHECKED BY:

S1
5 OF 10

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DOOR SCHEDULE

DOOR		FRAME		REMARKS		
DOOR NUMBER	SIZE	HARDWARE SET	JAMB DETAIL	SILL DETAIL	HEAD DETAIL	
WIDTH	HEIGHT	RATING	MATERIAL	MATERIAL	MATERIAL	
1	3'-0" x 7'-0"	F	STL		STL	EXTERIOR DOOR
2	10'-0" x 10'-0"	F	STL		STL	OVERHEAD DOOR
3	10'-0" x 10'-0"	F	STL		STL	OVERHEAD DOOR
4	14'-0" x 14'-0"	F	STL		STL	OVERHEAD DOOR

FG = FULL GLASS, TEMPERED 1/4"
 HG = HALF GLASS, TEMPERED 1/4"
 HM = HOLLOW METAL
 NA = NOT APPLICABLE
 PNT = PAINT
 STL = STEEL
 SCW = SOLID CORE WOOD
 F = FLUSH
 NL = NARROW LITE
 AL = ALUMINUM

NOTES:
 ALL DOORS & DOOR FRAMES SHALL BE CAULKED AS REQUIRED.
 ALL METAL FRAMES ARE TO BE WELDED FRAMES.

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	WALL				CEILING		HEIGHT
		NORTH	SOUTH	EAST	WEST	MATERIAL	MATERIAL	
101	VEHICLE BAY	CON	MTL	MTL	EXIST	MTL	MTL	18'-0"

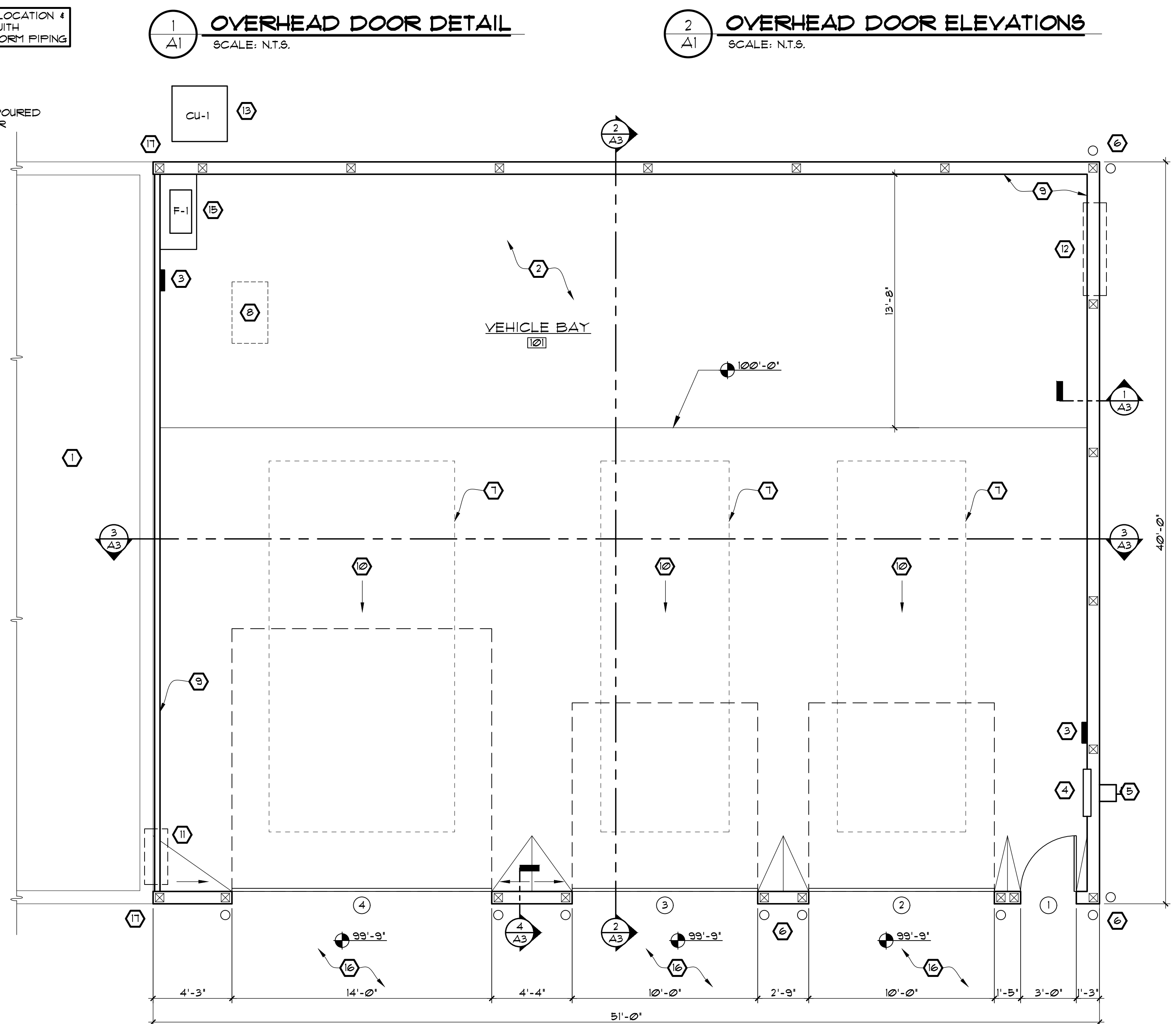
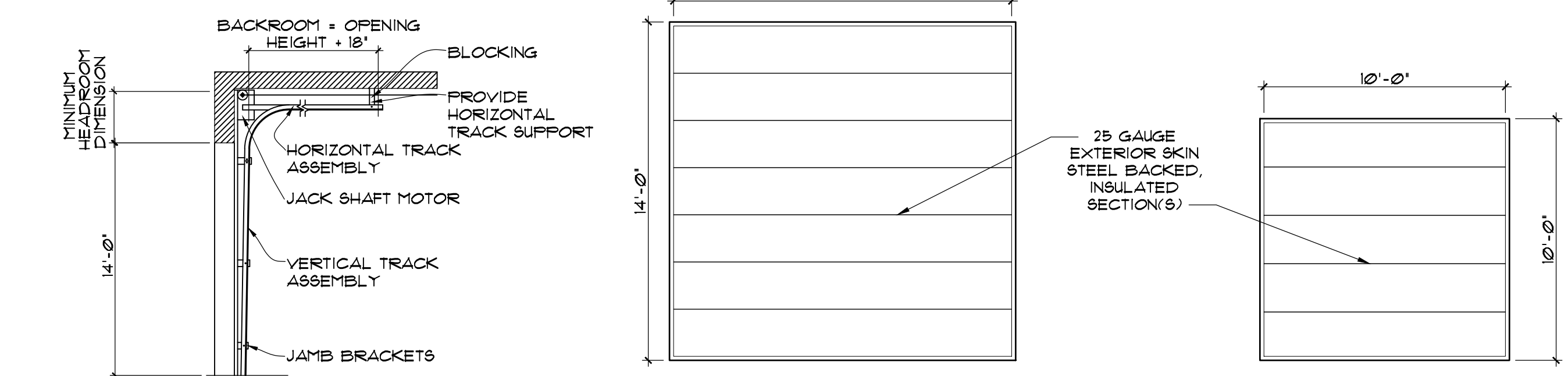
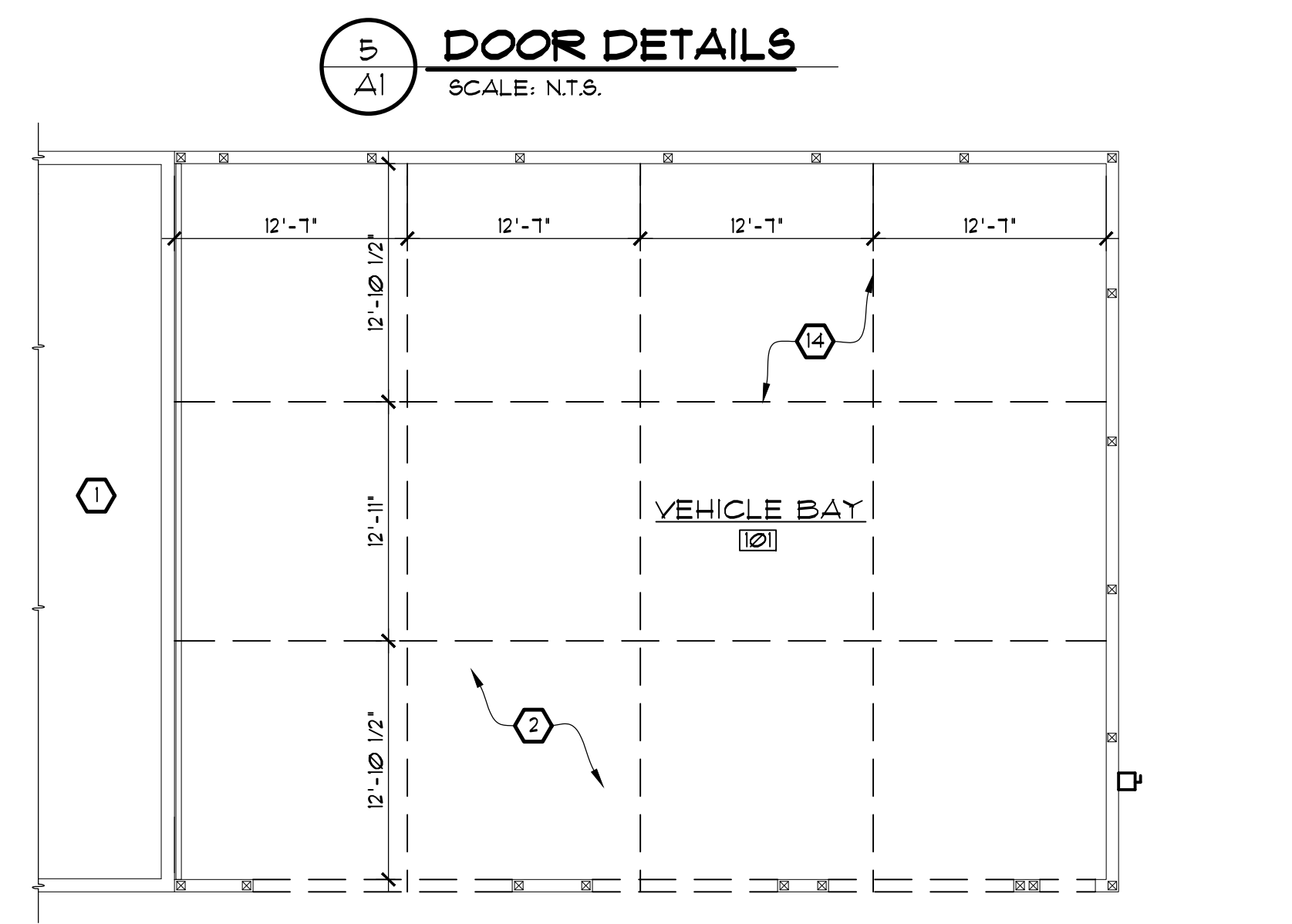
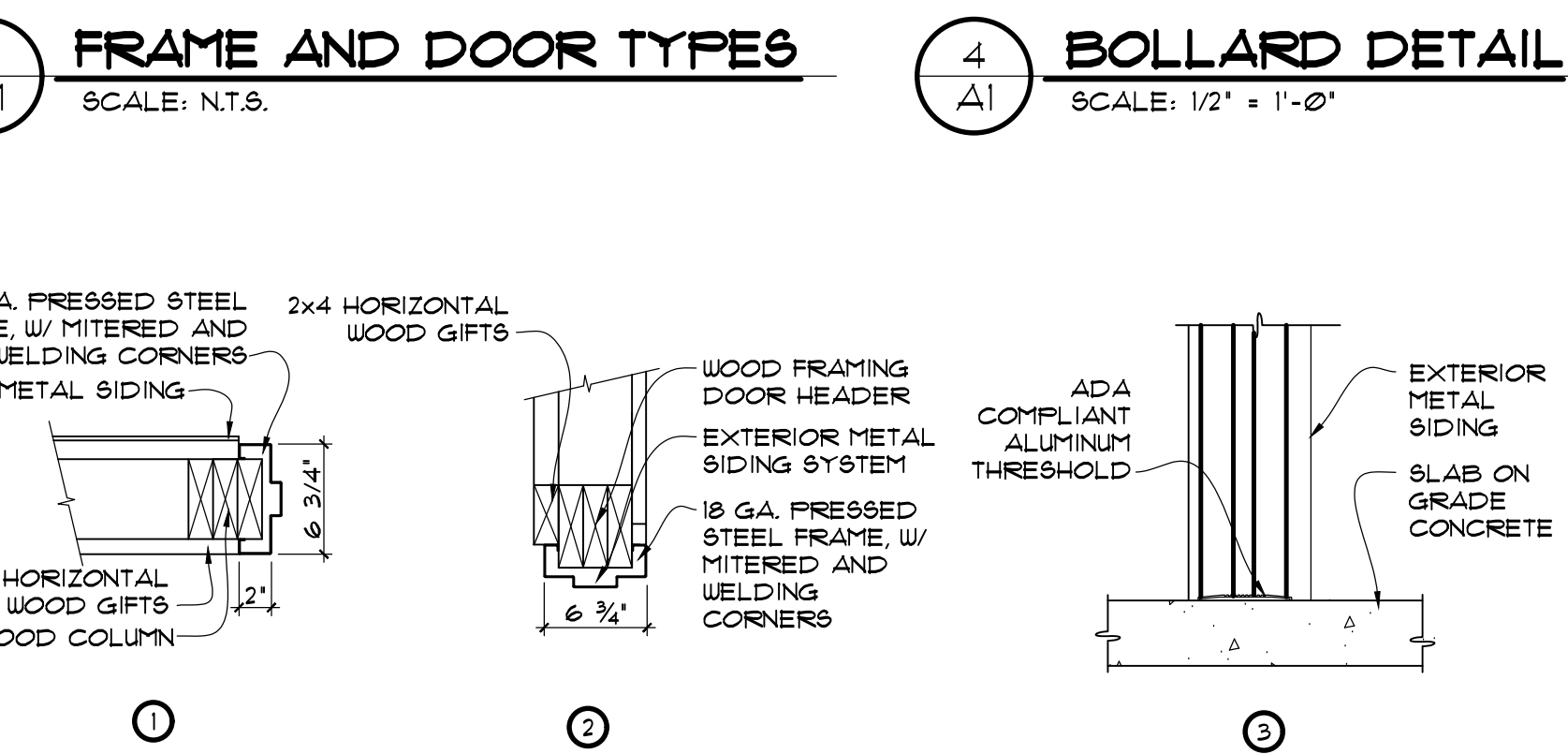
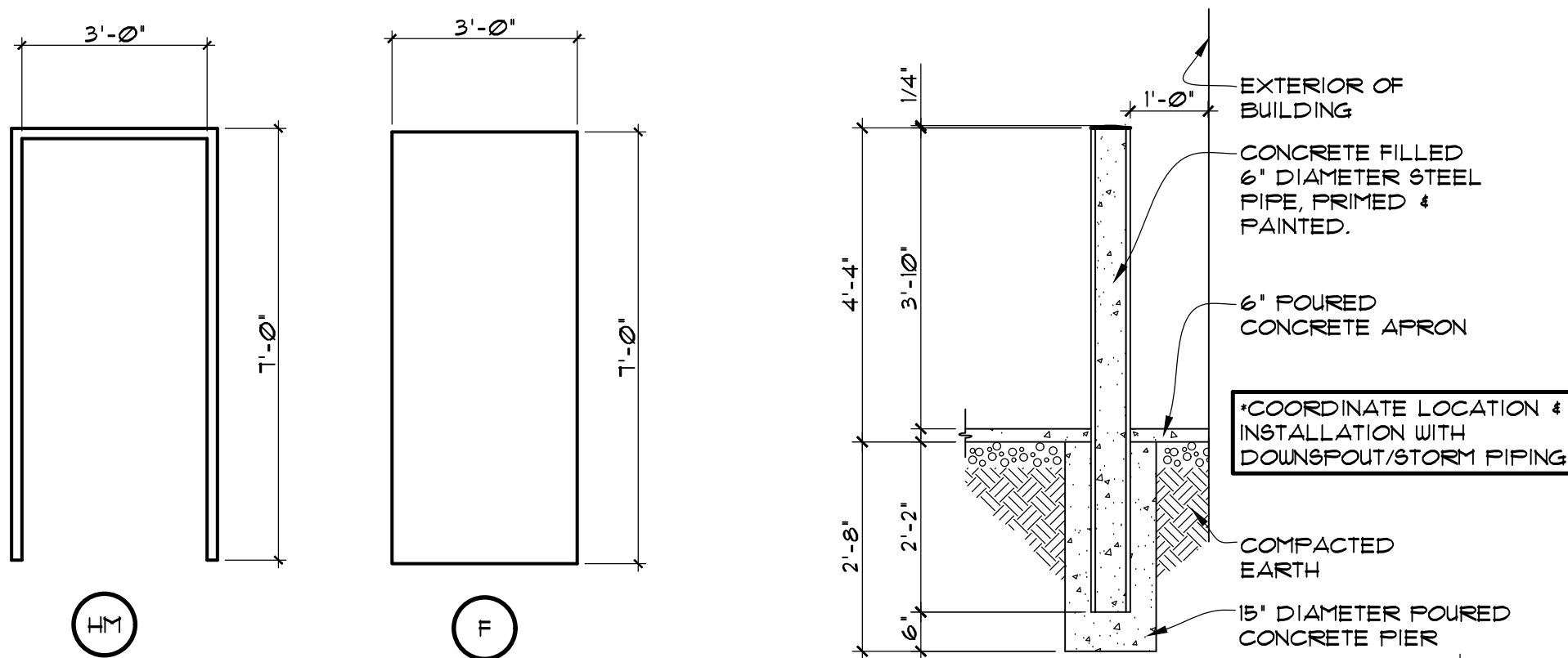
NOTES:
 GYP - GYPSUM BOARD
 CON - CONCRETE, SEALED
 MTL - METAL INTERIOR LINER

GENERAL NOTES:

- A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS & SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS & SPECIFICATIONS.
- B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED & SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.
- C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS.
- D. GUYL CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS. ALL CONTRACTORS SHALL COORDINATE THEIR ROUGH IN WITH THE GUYL CONTRACTOR.
- E. ALL DIMENSIONS TO STUDS, NOT GYPSUM BOARD. SEE WALL TYPES FOR STUD THICKNESS.
- F. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC., TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE CONTRACTOR.
- G. GUYL CONTRACTOR SHALL PROVIDE AND INSTALL A MINIMUM 6" TILE AT ALL DOWNSPOUTS AND EXTEND TO NEAREST CATCH BASIN OR STORM STRUCTURE. COORDINATE WITH POST FRAME CONTRACTOR.

CODED NOTES:

- 1 EXISTING BUILDING, PROTECT AS REQUIRED DURING CONSTRUCTION.
- 2 6" POURED CONCRETE SLAB OVER 8" COMPACTED STONE WITH W2.1 x W2.1 WWM AND 6 MIL VAPOR BARRIER.
- 3 PROVIDE & INSTALL 96MI-RECESSED FIRE CABINET AND FIRE EXTINGUISHER. CONTRACTOR TO PROVIDE & INSTALL BLOCKING AS REQUIRED.
- 4 NEW ELECTRICAL 100 AMP PANEL LOCATION.
- 16A NEW ELECTRICAL DISCONNECT.
- 6 PIPE BOLLARDS, CONCRETE FILLED AND PAINTED. SEE DETAIL 4/A1.
- 7 APPROXIMATE VEHICLE LOCATION AND SIZE.
- 8 ATTIC ACCESS ABOVE. SEE SHOP DRAWINGS FROM MANUFACTURER FOR LOCATION AND QUANTITY. MINIMUM SIZE SHALL BE 24"x36". PROVIDE A 12" HIGH MINIMUM 2x WOOD FRAMED CURB AROUND OPENING TO HOLD INSULATION BACK.
- 9 INSTALL METAL LINER ON WALLS AND CEILING. ALL OTHER TRADES SHALL MAKE PROVISIONS TO INSTALL EQUIPMENT AND FASTENERS SURFACE MOUNTED. COORDINATE BLOCKING WITH ALL CONTRACTORS.
- 10 SLOPE CONCRETE FLOOR 1/8" PER FOOT TO OVERHEAD DOOR OPENING. VERIFY AND RECEIVE APPROVAL OF SLOPE PRIOR TO PLACING CONCRETE.
- 15B 16A 11 EXHAUST LOUVER. COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.
- 15B 16A 12 INTAKE LOUVER. COORDINATE SIZE AND LOCATION WITH ALL CONTRACTORS. SEE MECHANICAL DRAWINGS.
- 15B 15 MECHANICAL UNIT. INSTALL ON 4" CONCRETE PAD. COORDINATE LOCATION WITH CONTRACTORS. GUYL SHALL PROVIDE CONCRETE PAD.
- 14 ALL SAW CUTS SHALL BE REVIEWED AND APPROVED WITH ARCHITECT AND OWNER PRIOR TO THE DAY OF THE POUR.
- 15 GUYL CONTRACTOR SHALL PROVIDE A POURED-IN-PLACE CONCRETE HOUSEKEEPING PAD MINIMUM 5'x6'. COORDINATE SIZE WITH MECHANICAL CONTRACTOR.
- 16 6' x 5'-0" POURED CONCRETE APRON OVER 8" COMPACTED STONE WITH W2.1 x W2.1 WWM.
- 17 PROVIDE TRANSITION METAL TRIM PIECE TO COVER THE END OF EXISTING SIDING AND START OF NEW SIDING.



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WDC GROUP

REVISIONS:

A NEW ADDITION
 FOR THE
MIAMI COUNTY SHERIFF
TACTICAL VEHICLE STORAGE FACILITY
 2050 NORTH COUNTY ROAD 254
 TROY, OHIO 45373

FLOOR PLAN, DETAILS, & SCHEDULES

PROJECT NO: 23010
 DRAWN BY:
 DATE: 04/12/2024
 CHECKED BY:

A1
 6 OF 10

ALL WORK ON THIS SHEET BY 1A UNLESS OTHERWISE NOTED.

V:\921108.301\DWG\PROJECT\23010 Miami Co Sheriff Storage\DWG\Sheets\A1 Miami Co Sheriff Storage.dwg, 4/22/2024 8:31:18 AM, AutoCAD PDF (General Documentation).plw

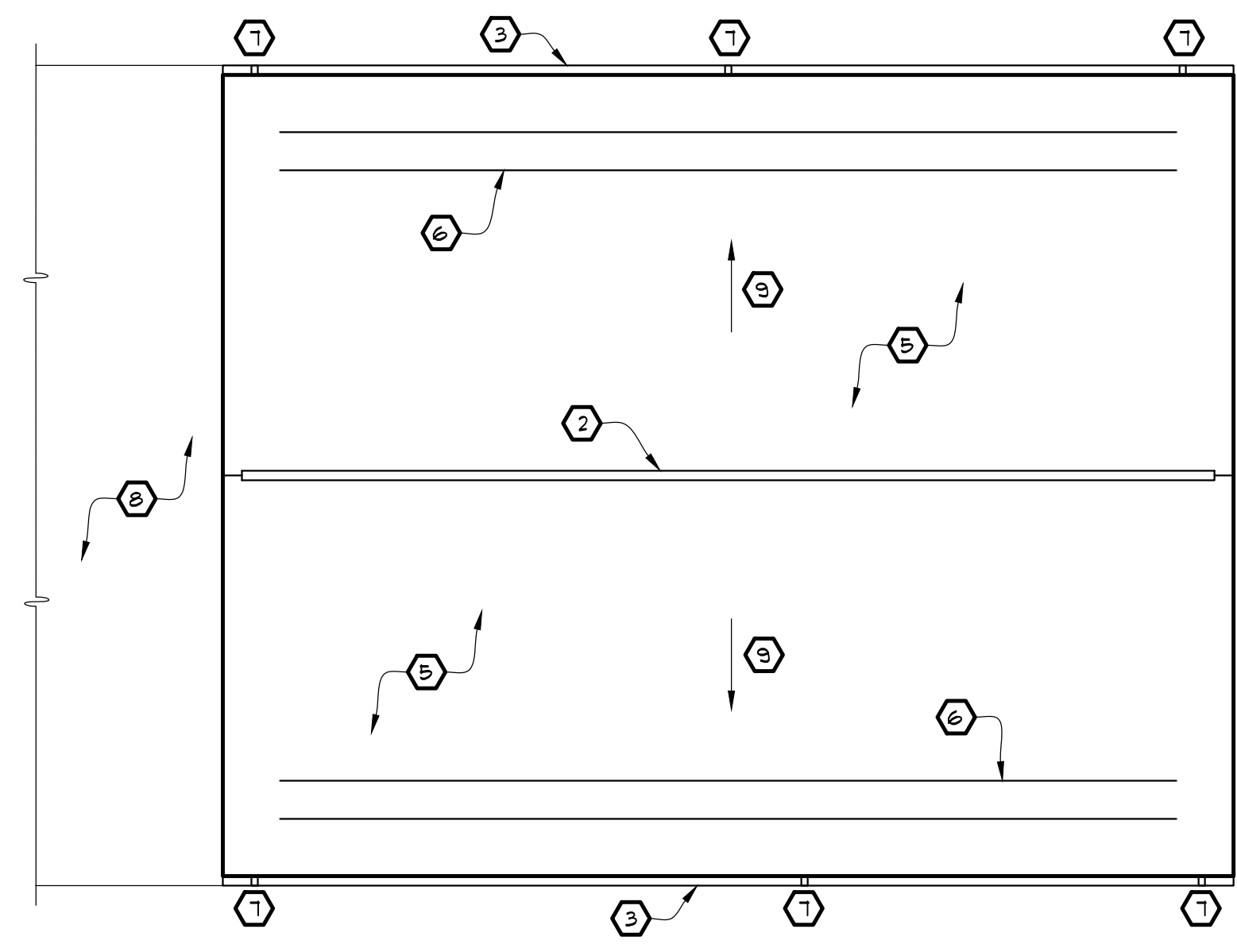
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GENERAL NOTES:

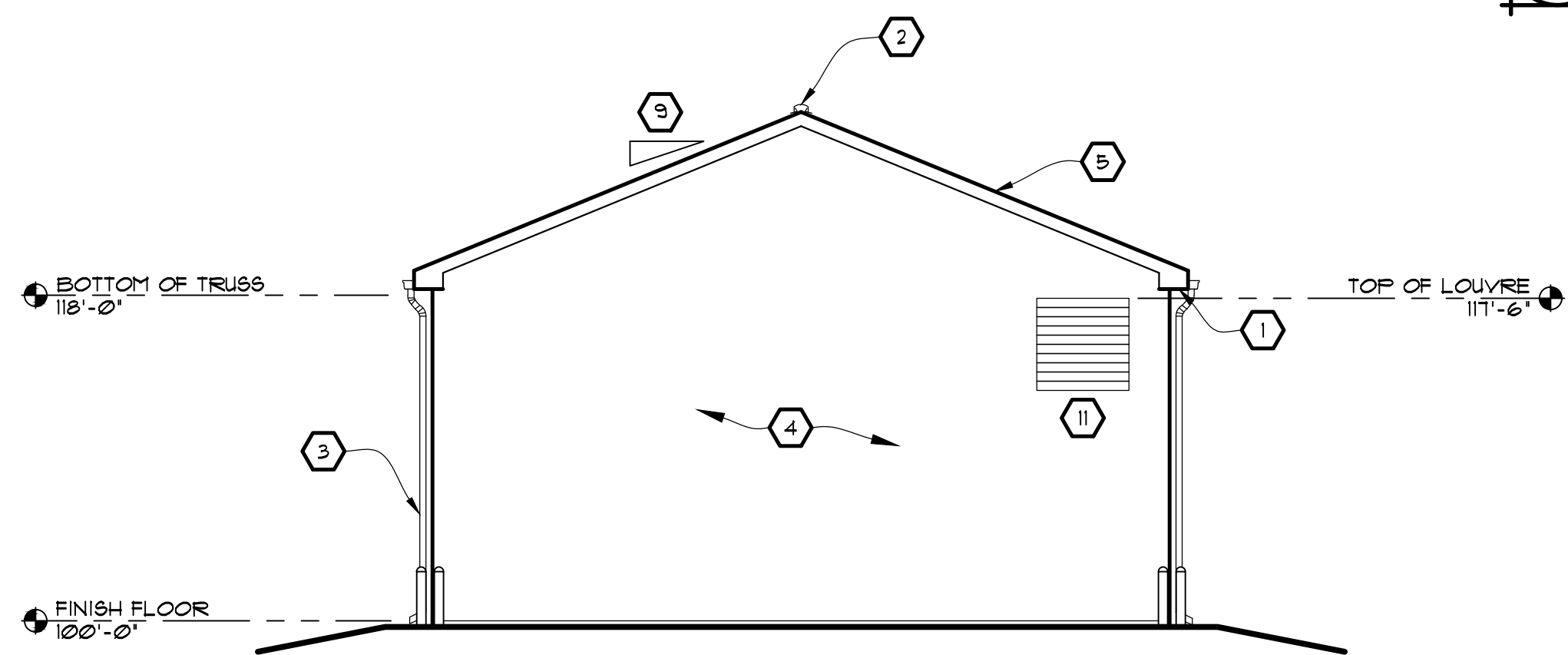
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- C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS.
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CODED NOTES:

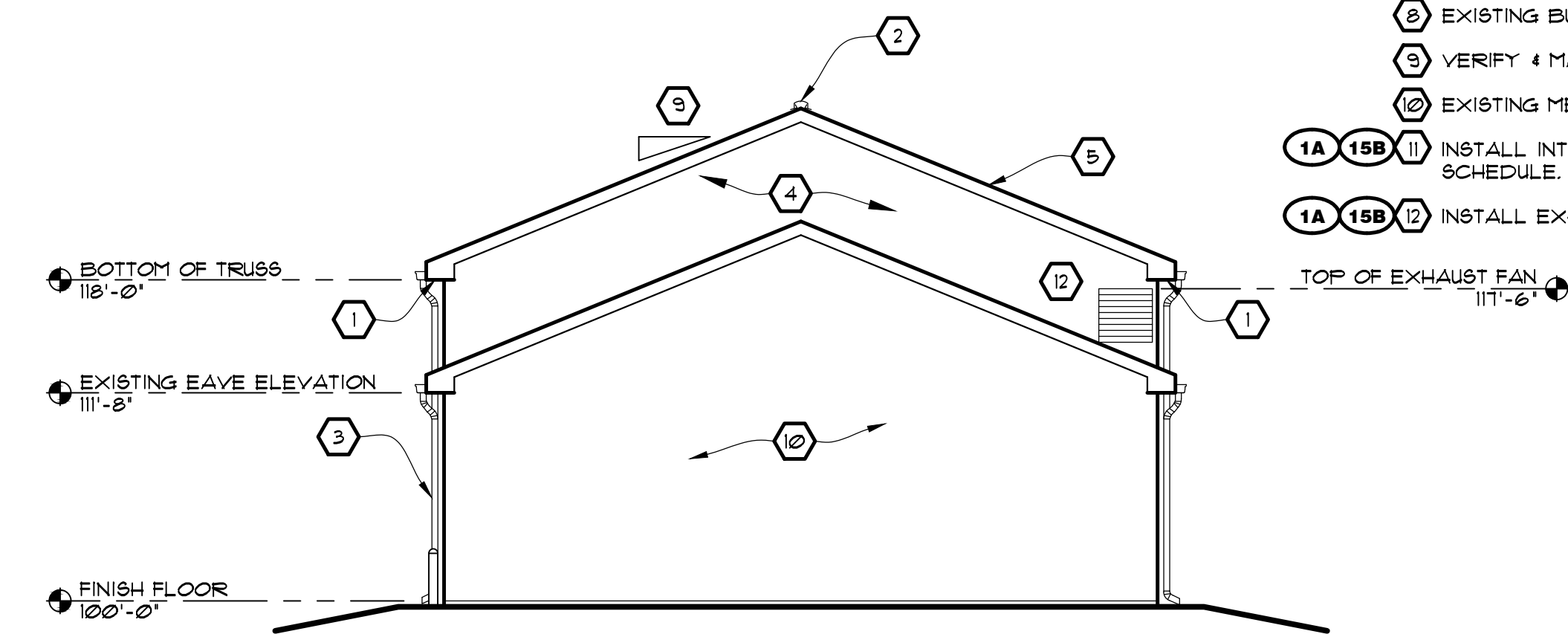
- 1 INSTALL ALUMINUM SOFFIT WITH FLAT PROFILE TO UNDERSIDE OF STRUCTURE. COLOR CHOSEN BY ARCHITECT.
- 2 CONTINUOUS VENTED RIDGE. CAP ENDS PER PRE-ENGINEERED BUILDING MANUFACTURER'S INSTRUCTIONS.
- 3 6" CONTINUOUS ALUMINUM GUTTERS AND DOWNSPOUT SIZED PER SMAACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWNSPOUT AND DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWNSPOUTS SHALL BE CONNECTED TO DRAINAGE TILE AND DRAINED AWAY FROM BUILDING TO PROPER LOCATION. DOWNSPOUTS SHOULD BE EXTENDED 6" BELOW THE FINISHED FLOOR. CONTRACTOR IS REQUIRED TO MAKE CONNECTION TO DOWNSPOUTS VIA REQUIRED BOOTS, CONNECTORS, ETC.
- 4 INSTALL METAL SIDING. COLOR TO BE VERIFIED AND APPROVED BY ARCHITECT.
- 5 INSTALL EXPOSED FASTENED METAL ROOF. ROOF COLOR TO BE VERIFIED AND APPROVED BY ARCHITECT.
- 6 INSTALL CONTINUOUS METAL ICE GUARD AT SPECIFIED LOCATIONS.
- 7 DOWNSPOUT LOCATIONS.
- 8 EXISTING BUILDING ROOF.
- 9 VERIFY & MATCH ROOF PITCH WITH EXISTING BUILDING ROOF PITCH.
- 10 EXISTING METAL SIDING.
- 11A 15B 11 INSTALL INTAKE LOUVER WITH MOTORIZED DAMPER. SEE LOUVER SCHEDULE.
- 11A 15B 12 INSTALL EXHAUST FAN. SEE FAN SCHEDULE.



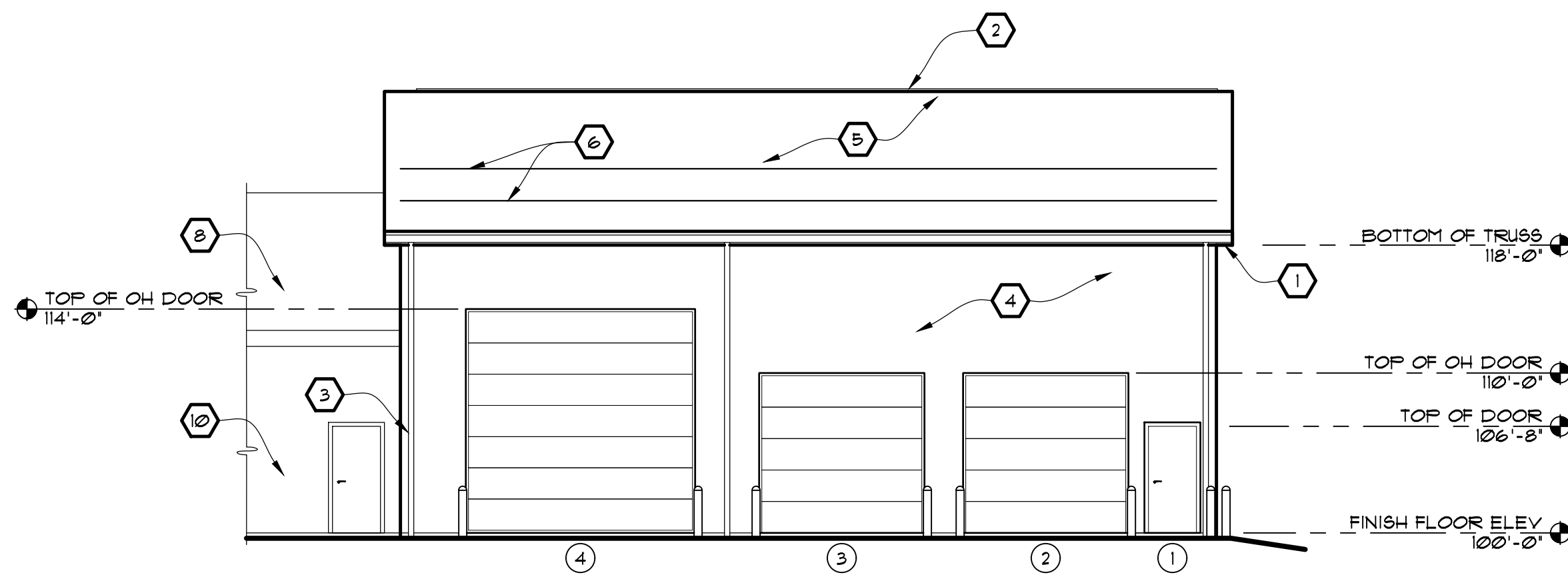
ROOF PLAN
SCALE: 1/8" = 1'-0"



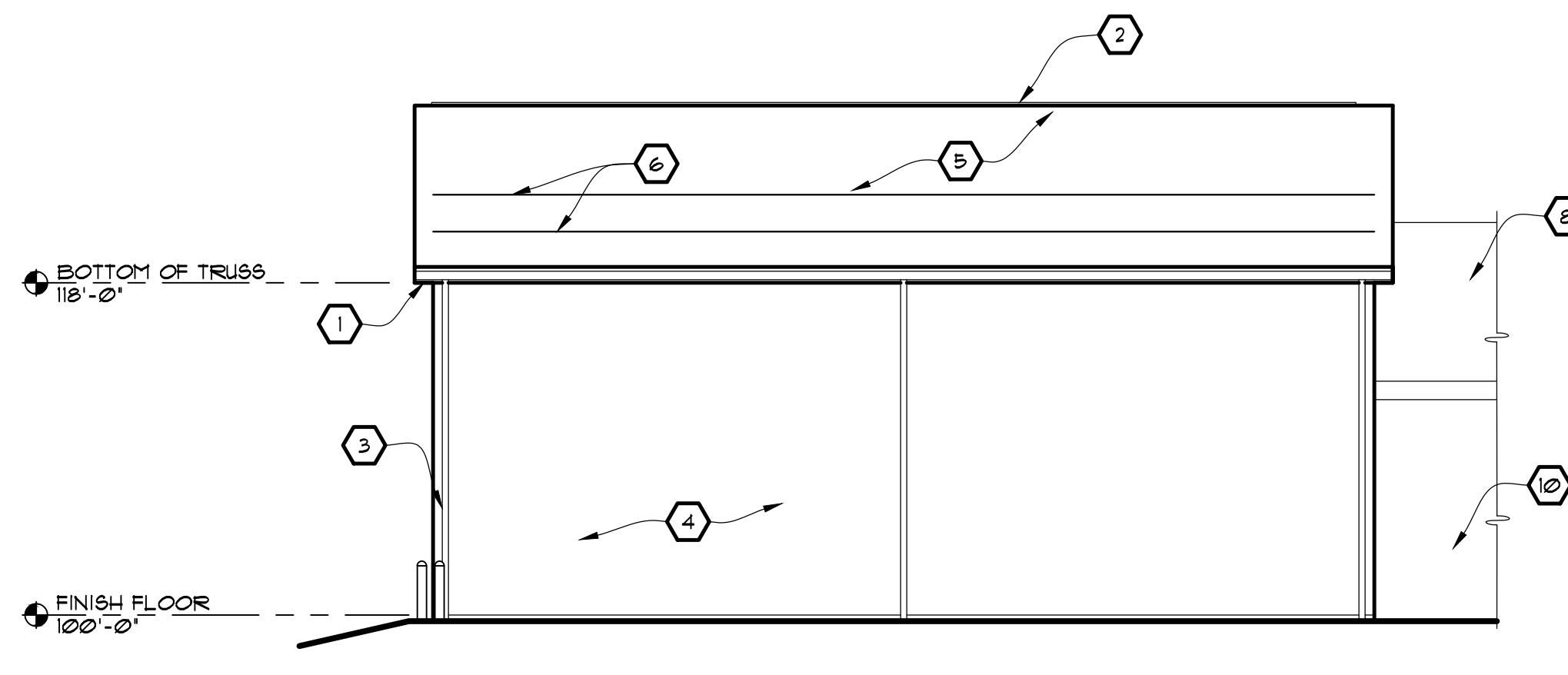
1 SIDE (NORTHWEST) ELEVATION
SCALE: 1/8" = 1'-0"



2 SIDE (SOUTHEAST) ELEVATION
SCALE: 1/8" = 1'-0"



3 FRONT (NORTHEAST) ELEVATION
SCALE: 1/8" = 1'-0"



4 REAR (SOUTHWEST) ELEVATION
SCALE: 1/8" = 1'-0"

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ELEVATIONS AND ROOF PLAN

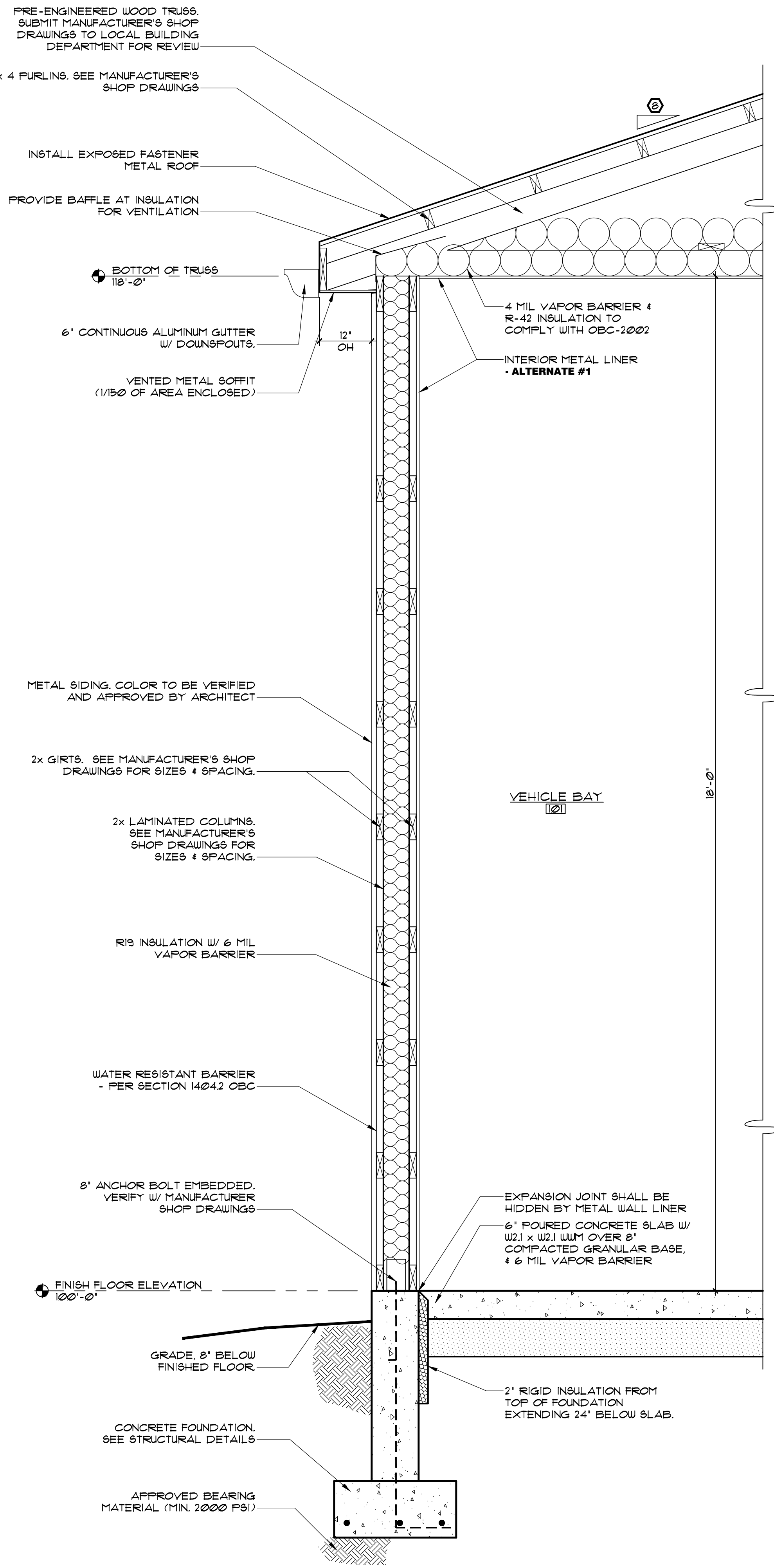
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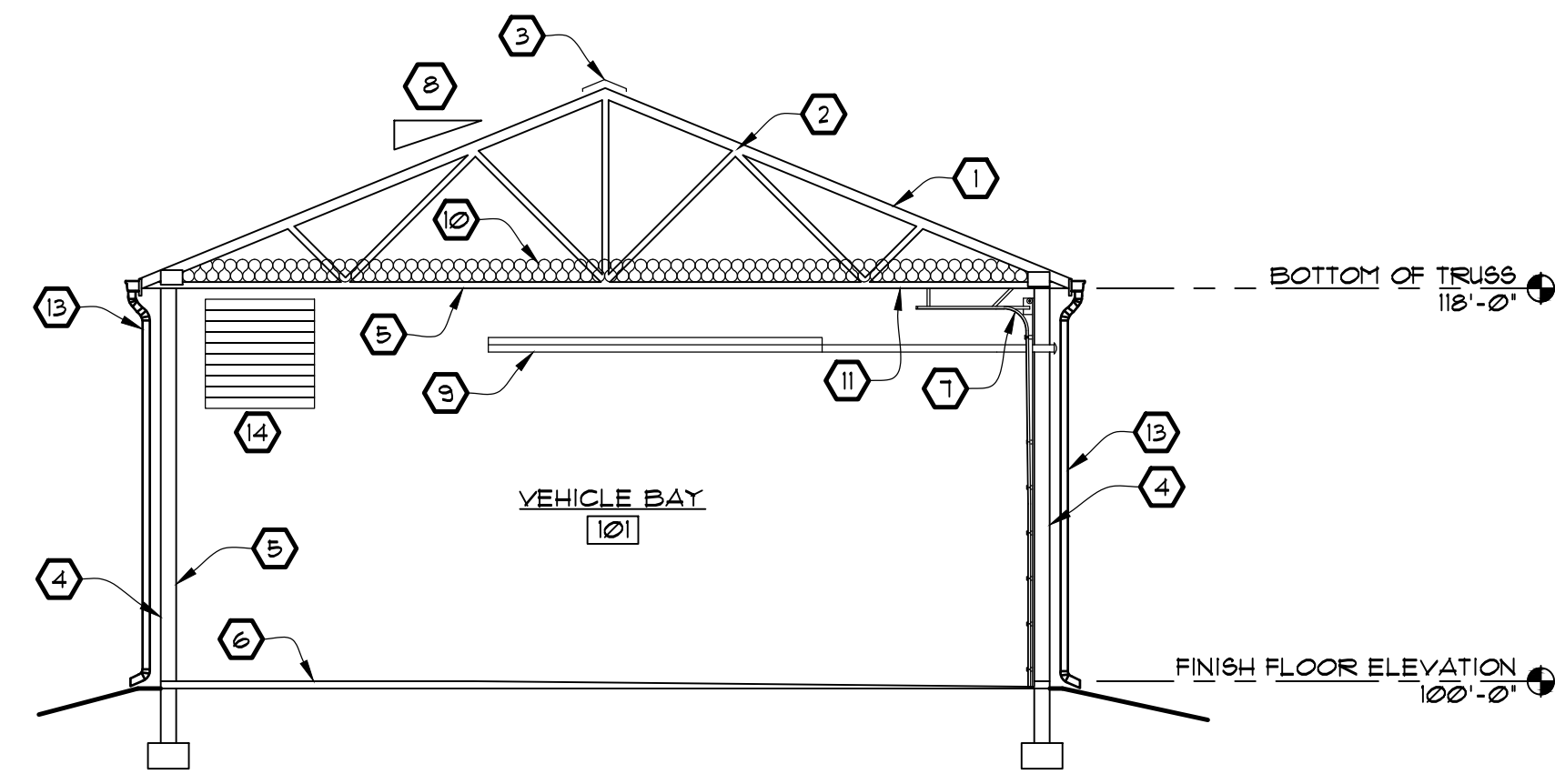
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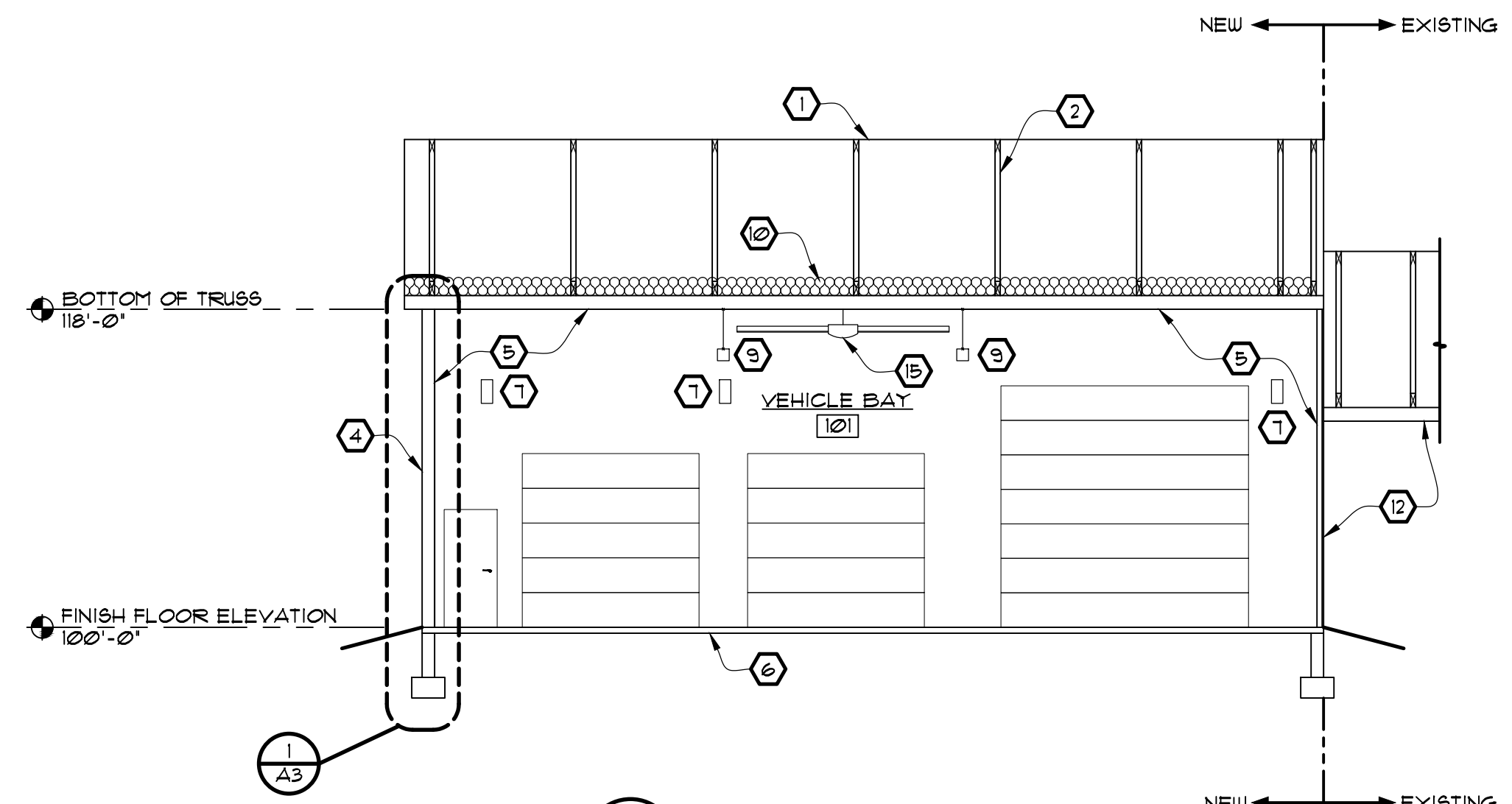
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1 WALL SECTION
SCALE: 3/4" = 1'-0"



2 BUILDING SECTION
SCALE: 1/8" = 1'-0"



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

GENERAL NOTES:

- A. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE REVIEW OF ALL DRAWINGS & SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A COMPLETE BUILDING PACKAGE AS SHOWN IN THE DRAWINGS & SPECIFICATIONS.
- B. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED STRUCTURAL SHOP DRAWINGS, SIGNED & SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. VERIFY SOIL BEARING CAPACITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO FOOTING EXCAVATION.
- C. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIAL & LAYOUT OF WALLS.
- D. G/W/L CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL WALLS. ALL CONTRACTORS SHALL COORDINATE THEIR ROUGH IN WITH THE G/W/L CONTRACTOR.
- E. ALL DIMENSIONS TO STUDS, NOT GYPSUM BOARD. SEE WALL TYPES FOR STUD THICKNESS.
- F. ALL CONTRACTORS ARE REQUIRED TO BROOM SWEEP & CLEAN EACH JOB SITE AT DAYS END. EACH CONTRACTOR IS THEREFORE RESPONSIBLE FOR THEIR RESPECTIVE DEBRIS, TRASH, ETC. TO BE DEPOSITED IN THE DUMPSTER PROVIDED BY THE CONTRACTOR.
- G. G/W/L CONTRACTOR SHALL PROVIDE AND INSTALL A MINIMUM 6" TILE AT ALL DOWNSPOUTS AND EXTEND TO NEAREST CATCH BASIN OR STORM STRUCTURE. COORDINATE WITH POST FRAME CONTRACTOR.

CODED NOTES:

- 1 INSTALL EXPOSED FASTENED METAL ROOF. COLOR TO BE SELECTED BY OWNER.
- 2 PRE-ENGINEERED WOOD TRUSSES, SUBMIT MANUFACTURER SHOP DRAWINGS TO LOCAL BUILDING DEPARTMENT FOR REVIEW
- 3 CONTINUOUS VENTED RIDGE. CAP ENDS PER MANUFACTURER'S INSTRUCTIONS.
- 4 INSTALL METAL SIDING. COLOR TO BE VERIFIED AND APPROVED BY ARCHITECT.
- 5 INSTALL INTERIOR METAL LINER ON CEILING & WALLS. - ALTERNATE #1
- 6 6" POURED CONCRETE SLAB WITH W2.1 x W2.1 WJM, OVER 8" COMPACTED GRANULAR BASE, & 6 MIL VAPOR BARRIER.
- 7 INSTALL OVERHEAD DOOR, JACK-TRACK OPENER, HI-LIFT TRACK, ETC. SEE SHEET A1 FOR DETAILS.
- 8 VERIFY & MATCH ROOF PITCH W/ EXISTING BUILDING ROOF PITCH.
- 9 INSTALL TUBE HEATERS AND REFLECTOR AS REQUIRED. SEE MECHANICAL PLANS.
- 10 INSTALL R-42 ATTIC INSULATION W/ 4 MIL VAPOR BARRIER. INSTALLATION SHALL COMPLY W/ O.B.C.
- 11 INSTALL FLAT METAL LINER ABOVE EACH OVERHEAD DOOR OPENING. VERIFY W/ OVERHEAD DOOR CONTRACTOR SIZE OF FLAT METAL LINER THAT IS REQUIRED.
- 12 EXISTING BUILDING STRUCTURE, PROTECT AS REQUIRED
- 13 6" CONTINUOUS ALUMINUM GUTTERS AND DOWNSPOUT SIZED PER SMACNA STANDARDS FOR 10 YEAR STORM. SUBMIT DOWN SPOUT AND DRAINAGE PLANS FOR APPROVAL BY ARCHITECT. ALL DOWNSPOUTS SHALL BE CONNECTED TO DRAINAGE TILE AND DRAINED AWAY FROM BUILDING TO PROPER LOCATION. DOWNSPOUTS SHOULD BE EXTENDED 6" BELOW THE FINISHED FLOOR. SITE CONTRACTOR IS REQUIRED TO MAKE CONNECTION TO DOWNSPOUTS VIA REQUIRED BOOTS, CONNECTORS, ETC.
- 14 INSTALL INTAKE LOUVER WITH MOTORIZED DAMPER. SEE LOUVER SCHEDULE.
- 15 INSTALL HVL'S FAN. SEE HVL'S FAN SCHEDULE.

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WALL AND BUILDING SECTIONS

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FURNACE SCHEDULE

TAG	MANUFACTURER & MODEL NUMBER	CFM	ESP (IN)	OUTDOOR AIR	WEIGHT (LBS)	HEATING CAPACITY			MOTOR HP & VOLTAGE	MOCP	DX COOLING COIL DATA			AIR COOLED CONDENSING UNIT									
						INPUT (MBH)	OUTPUT (MBH)	EFF. %			MODEL No.	TOTAL (MBH)	METERING	TYPE	TAG	MODEL No.	NOM. TONNAGE	REFRIG.	SEER	VOLTAGE	MCA	MOCP	WEIGHT (LBS)
F-1	BRYANT 9128E60080M21	1950	50"	NA	121	80,000	75,000	92%	3/4 HP 120V, 1 Ø	20 A	BRYANT CVFYA6024X1C	60,000	TXV	UPFLOW	CU-1	BRYANT 1142AN0600N	5	R-410A	14	208/230/1	33	50	190

EXHAUST FAN SCHEDULE

TAG	MANUFACTURER & MODEL NUMBER	AREA SERVED	SERVICE	CFM	ESP	MOTOR HP & VOLTAGE	FAN RPM	FAN TYPE	WALL OP'G.	WEIGHT (LBS)
EF-1	GREENHECK AER-24-VG	VEHICLE BAY 101	CO EXHAUST	3,600	0.25"	5 HP 208/1	1,450	WALL	33.75 SQ	230

*PROVIDE EF-1 WITH GRAVITY SHUTTER, WEATHER HOOD, DISCONNECT AND VARI-GREEN HOA WALL CONTROL.

EQUIPMENT SCHEDULE

MARK	CFM	FRESH AIR	HEATING INPUT	COOLING BTU	TON	VOLTAGE	PHASE	MCA	MOCP	MANUFACTURER	MODEL NUMBER
RH-12	-	-	125 MBTU	-	-	110	1	-	15	DETROIT RADIANT	HL3-125-30

*TIE BOTH HEATERS TO ONE 2-STAGE HEATING THERMOSTAT.

LOUVER SCHEDULE

MARK	FACE SIZE	BIRD SCREEN	MOUNTING	FREE AREA	DUTY	MANUFACTURER	MODEL NUMBER	REMARKS
L-1	36x36	YES	CHANNEL	3.00 FT2	GEN. INTAKE	GREENHECK	EAC-401	MILL FINISH

*PROVIDE LOUVER/DAMPER ASSEMBLY WITH 24V MOTOR AND OPERATOR. INTERLOCK BY 16A

VENTILATION AIR CALCULATIONS

2,400 S.Q. FT. x 12 CFM/S.Q. FT. = 28,800 CFM
 EF-1 MIN CFM = 3,600 CFM @ 25" WC.

EF-1/L-1 TO BE INTERLOCKED AND CONTROLLED BY HONEYWELL EC2 CO/NO2 MONITORING SYSTEM PROVIDED AND INSTALLED BY 15B CONTRACTOR.

HVLS FAN

MAKE & MODEL	DIAMETER	RPM'S	VOLTS	AMPS	MOCP	WEIGHT (LBS)
GREENHECK DC-9-12-13LV	12'	76	110V	5A	15	109

*PROVIDE WITH 3' DOWNROD AND WALL CONTROLLER. VERIFY MOUNTING HEIGHT WITH CONTRACTOR.

DUCTWORK SCHEDULE

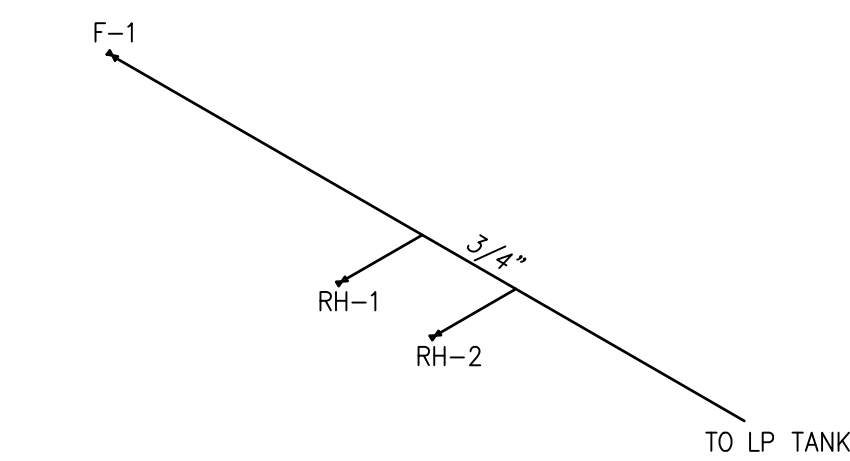
DUCT SYSTEM	SMACNA PRESSURE CLASS	SMACNA SEAL CLASS	DUCT MATERIAL	INSULATION	R-VALUE
SUPPLY AIR DUCTWORK	2'	B	GALVANIZED STEEL	2" DUCT WRAP	R-6.0
RETURN AIR DUCTWORK	1'	B	GALVANIZED STEEL	1" DUCT LINER	R-4.2

GENERAL NOTES:

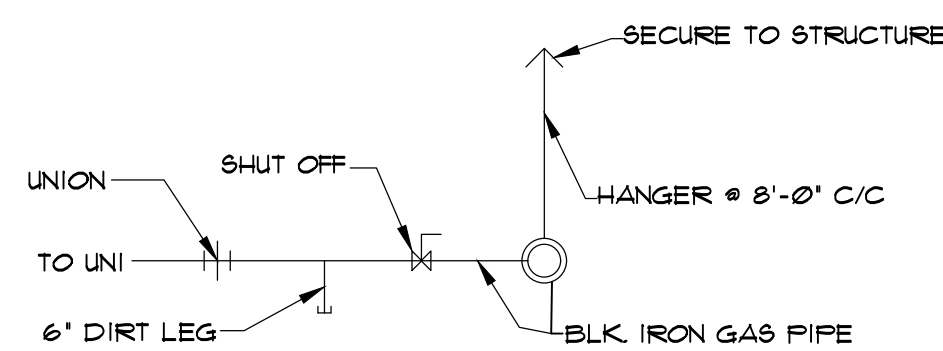
- A. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL POWER AND VOLTAGE REQUIREMENTS.
- B. THE MECHANICAL CONTRACTOR SHALL ACCURATELY COORDINATE THE SIZES AND LOCATION OF ALL DUCTWORK, PIPING AND EQUIPMENT WITH THE LOCATION OF LIGHTING FIXTURES, STRUCTURAL MEMBERS AND WORK OF ALL OTHER TRADES TO PREVENT CONFLICT. DUCTWORK CONFLICTING WITH LIGHTING FIXTURE LOCATIONS SHALL BE MOVED AT THIS CONTRACTOR'S EXPENSE.
- C. MOUNT THERMOSTATS AT 4'-0" ABOVE FINISHED FLOOR OR AS DIRECTED BY THE ARCHITECT. VERIFY LOCATION WITH OWNER/ARCHITECT.
- D. ALL DUCTWORK DIMENSIONS NOTED ON PLAN REFERS TO THE CLEAR INSIDE OPENING REQUIRED.
- E. ALL WALL AND FLOOR CUTTING, PATCHING AND FLASHING REQUIRED TO INSTALL THE MECHANICAL SYSTEMS SHALL BE MADE BY THE MECHANICAL CONTRACTOR. ALL ROOF PENETRATIONS, CUTTING, FLASHING, ETC. SHALL BE MADE BY GENERAL CONTRACTOR.
- F. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, THE MECHANICAL CONTRACTOR SHALL INCLUDE ALL NEEDED OFFSETS, CHANGES IN DIRECTION, TRANSITIONS, ETC. NEEDED FOR COMPLETE AND OPERATIONAL SYSTEMS.
- G. ALL OUTSIDE AIR INTAKES FOR THE MECHANICAL EQUIPMENT SHALL BE LOCATED A MINIMUM DISTANCE OF 10'-0" FROM EXHAUST OUTLETS OF VENTILATION SYSTEMS, COMBUSTION EQUIPMENT STACKS, PLUMBING VENTS AND PROPERTY LINES.
- H. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER AND UNIT INSTALLATION MANUAL FOR PROPER CLEARANCES.
- I. HANGARS, ANCHORS, AND SUPPORTS SHALL SUPPORT THE PIPING AND THE CONTENT OF THE PIPING. HANGARS, AND STRAPPING MATERIALS SHALL BE APPROVED MATERIALS THAT WILL NOT PROMOTE GALVANIC ACTION.
- J. ALL DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH MASTICS.
- K. DUCTWORK SHALL BE SUPPORT AT MINIMUM 8'-0" ON CENTER.
- L. REGISTERS, GRILLES, AND DIFFUSERS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. MECHANICAL CONTRACTOR TO FURNISH AND INSTALL BALANCING DAMPERS AT BOTH THE DIFFUSER AND THE BRANCH DUCT.
- M. DUCT INSTALLATION SHALL HAVE FLAME INDEX OF 25 OR LESS AND SMOKE INDEX OF 50 OR LESS. EXTERNAL DUCT INSULATION FACTORY INSULATED FLEXIBLE DUCT SHALL HAVE IDENTIFIED THE MANUFACTURER, R-VALUE, FLAME, AND SMOKE INDEX.
- N. PERFORM ALL WORK IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE APPROPRIATE STATE AND LOCAL BUILDING CODES AND SUBTILES.
- O. QUESTIONS REGARDING THESE DRAWINGS SHALL BE ADDRESSED TO THE ARCHITECT PRIOR TO THE AWARDING OF THE CONTRACT. OTHERWISE THE ENGINEER'S INTERPRETATION OF THE MEANING AND INTENT OF THE DRAWINGS SHALL BE FINAL.
- P. DUCT SMOKE DETECTION NOT REQUIRED FOR SYSTEMS DELIVERING LESS THAN 2,000 CFM COMBINED AIRFLOW.

CODED NOTES:

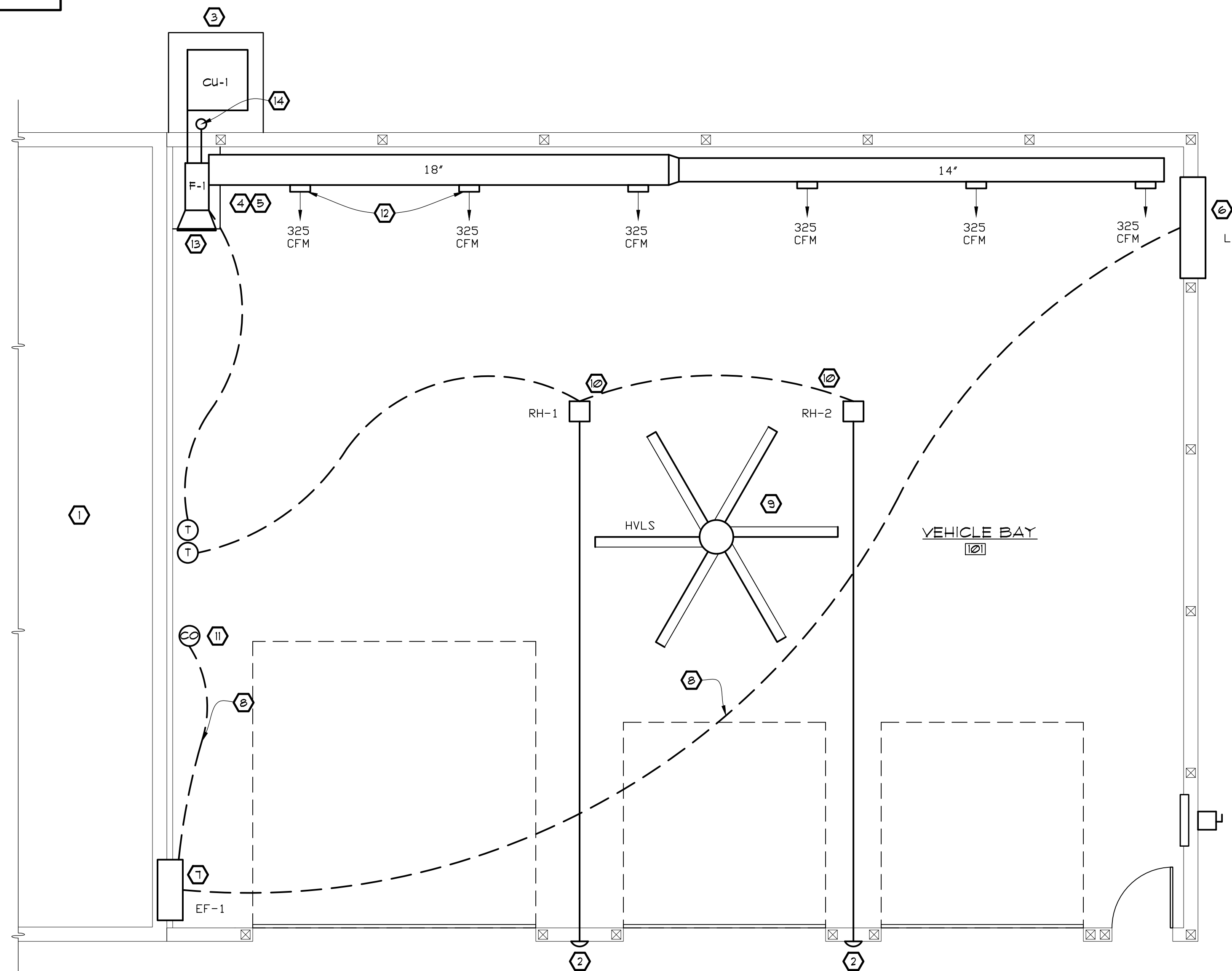
- 1 EXISTING BUILDING.
- 2 INSTALL 4" VENT FOR EACH UNIT HEATER.
- 1A 15B 3 INSTALL NEW CONDENSING UNIT. GW4L CONTRACTOR SHALL PROVIDE POURED-IN-PLACE 4" CONCRETE PAD. COORDINATE SIZE WITH MECHANICAL CONTRACTOR.
- 4 INSTALL NEW FURNACE. SEE FURNACE SCHEDULE. INSTALL CONDENSATE LINE TO EXTERIOR WITH 1 1/2" PVC PIPE.
- 1A 15B 5 GW4L CONTRACTOR SHALL PROVIDE A POURED-IN-PLACE CONCRETE HOUSEKEEPING PAD MINIMUM 5'x6'. COORDINATE SIZE WITH MECHANICAL CONTRACTOR.
- 6 INSTALL INTAKE LOUVER WITH MOTORIZED DAMPER. SEE LOUVER SCHEDULE. COORDINATE POWER WITH ELECTRICAL CONTRACTOR.
- 7 INSTALL EXHAUST FAN. COORDINATE POWER WITH ELECTRICAL CONTRACTOR. SEE EXHAUST FAN SCHEDULE.
- 15B 16A 8 INTERLOCK BY ELECTRICAL CONTRACTOR.
- 9 INSTALL HVLS FAN. COORDINATE POWER WITH ELECTRICAL CONTRACTOR. SEE HVLS FAN SCHEDULE.
- 10 INSTALL RADIANT TUBE HEATER. SEE EQUIPMENT SCHEDULE. VENT THROUGH WALL.
- 15B 16A 11 INSTALL CARBON MONOXIDE AND NITROGEN DIOXIDE DETECTOR AS SUPPLIED BY MECHANICAL CONTRACTOR. COORDINATE CONTROL WIRING AND EXHAUST FAN/LOUVER WITH MECHANICAL CONTRACTOR. PROVIDE MANUAL OVERRIDE STARTER AND DISCONNECT. VERIFY LOCATION WITH ARCHITECT.
- 12 PROVIDE AND INSTALL A 14x8 DOUBLE DEFLECTION SPIRAL-MOUNT REGISTERS ON DUCTWORK.
- 13 PROVIDE AND INSTALL A 30x30 9W HEAVY DUTY RETURN AIR GRILLE AT FURNACE.
- 14 FURNACE VENT LOCATION. COORDINATE WITH GW4L CONTRACTOR.



1 GAS PIPING ISOMETRIC
N.T.S.



2 GAS CONNECTION DETAIL
NOT TO SCALE



MECHANICAL PLAN
SCALE: 1/4"=1'-0"

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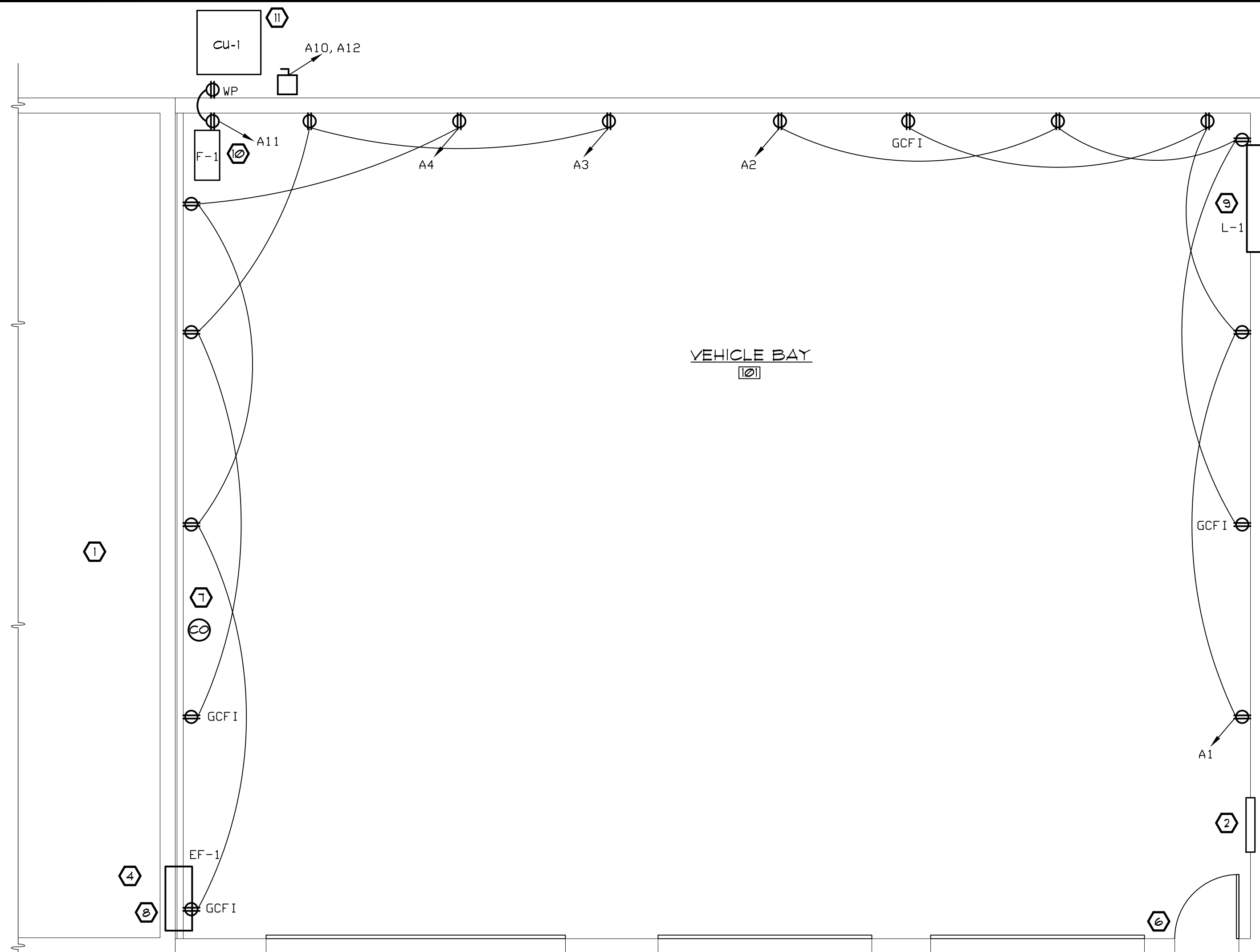
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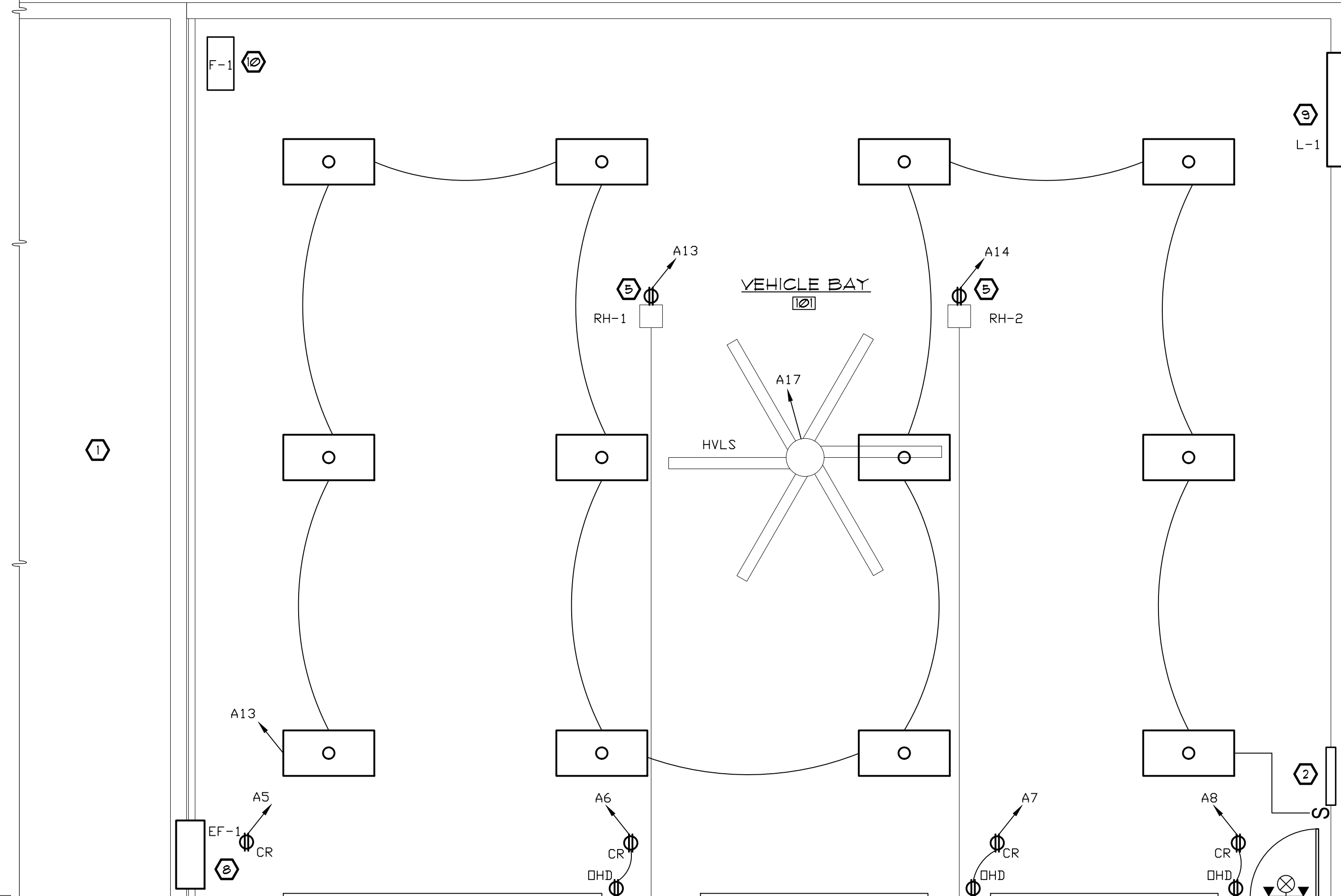
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ELECTRICAL PLAN
SCALE: 1/4"=1'-0"



LIGHTING PLAN
SCALE: 1/4"=1'-0"

ELECTRICAL LEGEND		
ALL SYMBOLS MAY NOT BE USED. MOUNTING HEIGHTS ARE TO TOP UNO. ALL OUTLETS IN GARAGES SHALL BE PLACED AT 48" AFF.		
S S ₃ S ₄	SINGLE POLE, THREE, FOUR WAY SWITCHES.	48" AFF.
⊕	DUPLEX RECEPTACLE (110V)	48" AFF.
⊕ _{CR}	WALL MOUNTED CORD REEL	84" AFF.
⊏	DISCONNECT SWITCH	48" AFF.

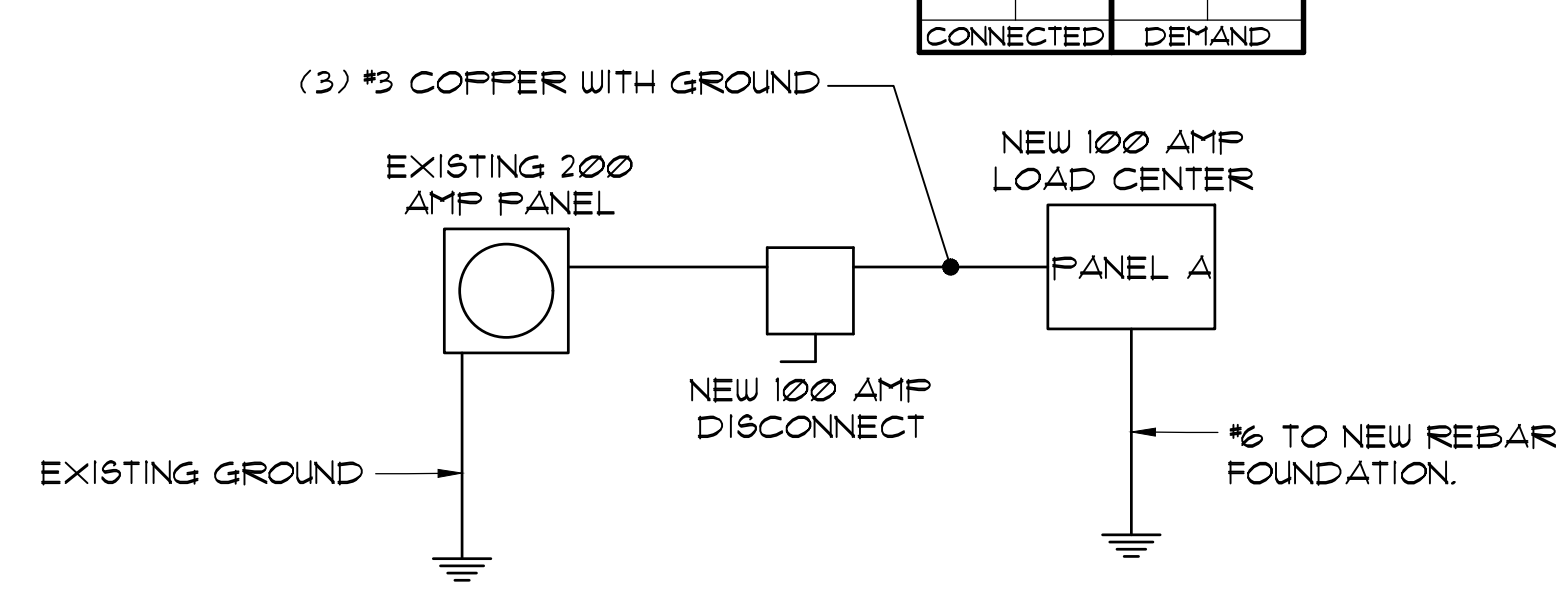
ELECTRICAL ABBREVIATIONS			
WP	WEATHER PROTECTED	OHD	OVERHEAD DOOR
NL	NIGHT LIGHT	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
PE	PHOTO EYE	T	TIMER

LIGHT FIXTURE LEGEND	
⊙	2'x4' LED SURFACE MOUNTED FIXTURE LITHONIA 2BLT4-30L-AD9M-MVOLT-EZI-LP835
⊏	WALL PACK LIGHT FIXTURE LITHONIA D8XW-LED-20C-100-40K-T3M-MVOLT
⊕ _{EXIT}	EXIT SIGN W/ EMERGENCY BATTERY PACK
⊕ _{EGRESS}	EMERGENCY EGRESS LIGHT
⊕ _{REMOTE}	REMOTE EMERGENCY LIGHT

FIXTURES & EQUIPMENT SPECIFIED ABOVE ARE TO BE USED OR AN ARCHITECT APPROVED EQUAL.

ELECTRICAL PANEL SCHEDULE A										
LOAD A	LOAD B	WIRE SIZE	DESCRIPTION	CIRCUIT BREAKER SIZE	CIRCUIT NUMBER	CIRCUIT BREAKER SIZE	DESCRIPTION	WIRE SIZE	LOAD B	LOAD A
	#2		RECEPTACLES	20/1	1 2	20/1	RECEPTACLES	#2		
	#2		RECEPTACLES	20/1	3 4	20/1	RECEPTACLES	#2		
	#2		RECEPTACLES	20/1	5 6	20/1	OVERHEAD DOOR	#2		
	#2		OVERHEAD DOOR	20/1	7 8	20/1	OVERHEAD DOOR	#2		
	#2		RECEPTACLES - CEILING	20/1	9 10	50/2	CONDENSING UNIT	#6		
	#2		FURNACE	20/1	11 12	50/2	CONDENSING UNIT	#6		
	#2		TUBE HEATER	20/1	13 14	20/1	TUBE HEATER	#2		
	#2		LIGHTING	20/1	15 16	20/1	EXTERIOR LIGHTING	#2		
	#2		HLV8 FAN	20/1	17 18					
	#2		EXISTING BUILDING	20/1	19 20					
					21 22					
					23 24					
					25 26					
TOTALS									TOTALS	

NEW PANEL - 100 AMP, SINGLE PHASE, 120/240 VOLT. MAIN LUG ONLY. VERIFY ALL BREAKER SIZES W/ MECHANICAL EQUIPMENT SUPPLIERS. BREAKERS SHALL BE SERIES RATED WITH UPSTREAM LPN-RK FUSES.



ELECTRICAL SERVICE DIAGRAM
SCALE: 1/2"=1'-0"

- ### GENERAL NOTES:
- ELECTRICAL CONTRACTOR SHALL VISIT SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND WORK TO BE DONE. ELECTRICAL CONTRACTOR SHALL CAREFULLY CHECK PLANS AND SPECIFICATIONS. THESE ELECTRICAL DRAWINGS ARE TO BE USED AS A GUIDE. ELECTRICAL CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR A COMPLETE AND FUNCTIONING SYSTEM INSTALLED IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES AND THE STANDARDS OF THE LOCAL ELECTRICAL UTILITY COMPANY. THIS CONTRACTOR SHALL SECURE ELECTRICAL PERMITS AS REQUIRED.
 - ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY WIRING AND CONNECTIONS TO ALL EQUIPMENT FURNISHED BY OTHERS AS NOTED OR SHOWN.
 - INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S SPECS, DETAILS, AND DESIGN. EQUIPMENT CALLED OUT BY CERTAIN MANUFACTURER'S IS INTENDED TO CREATE A STANDARD. EQUALS WILL BE ACCEPTED UPON APPROVAL BY ARCHITECT.
 - ALL RECEPTACLE & LIGHTING CIRCUITS TO BE 20 AMP UNLESS OTHERWISE SPECIFIED. ALL OUTSIDE RECEPTACLES TO HAVE GROUND FAULT PROTECTION.
 - RUN ALL CONDUIT AND WIRE TIGHT TO BUILDING, FRAMING WHERE POSSIBLE. ALL RUNS TO BE SQUARE & TRUE WITH BUILDING LINES. ROTATE ALL WIRING IN VEHICLE BAY IN EMT CONDUIT AND SURFACE MOUNT ALL WIRING/CONDUIT.
 - FINAL LOCATION OF ALL DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS, FURNITURE LAYOUTS, AND SPECIFICATIONS.
 - ALL PENETRATIONS THRU WALLS CREATED BY ELECTRICAL CONTRACTOR TO BE CAULKED WITH FIRE RATED CAULK BY ELECTRICAL CONTRACTOR.
 - ALL LIGHT FIXTURES SHALL BE INSTALLED WITH AND CONTROLLED BY AT LEAST (1) LIGHT SWITCH IN EACH ROOM.
 - ALL DIRECT BURIED CABLE OR CONDUIT SHALL BE INSTALLED PER THE NEC 300.5 (SEE TABLE 300.6).
 - ELECTRICAL CONTRACTOR SHALL IDENTIFY AND WORK ALL SERVICE EQUIPMENT PER THE REQUIREMENTS OF NEC 110.24 (A).
 - ELECTRICAL CONTRACTOR SHALL IDENTIFY AND MARK ALL ELECTRICAL EQUIPMENT (SWITCH BOARDS, PANEL BOARDS, CONTROL PANELS, METER SOCKET ENCLOSURES, MOTOR CONTROL CENTERS, ETC.) PER THE REQUIREMENTS OF NEC 110.16.
 - ALL ELECTRICAL OUTLETS IN THE VEHICLE BAY SHALL BE MOUNTED 48" AFF.
- ### CODED NOTES:
- EXISTING BUILDING.
 - NEW ELECTRICAL 100 AMP PANEL WITH NEW DISCONNECT.
 - CONDENSING UNIT. PROVIDE POWER TO UNIT AND 1/2 VOLT RECEPTACLE. PROVIDE DISCONNECT. VERIFY SIZE WITH MECHANICAL CONTRACTOR.
 - PROVIDE NEW POWER TO EXISTING JUNCTION BOX AT FLOOR IN THE EXISTING BUILDING. VERIFY SIZE OF EXISTING WIRING.
 - PROVIDE POWER TO TUBE HEATER. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION.
 - PROVIDE POWER TO OVERHEAD DOOR OPENER, SAFETY SWITCHES, AND OVERHEAD DOOR CONTROL BUTTONS. COORDINATE LOCATION WITH ARCHITECT. VERIFY WITH ARCHITECT AND OWNER FOR CONFIGURATION OF CONTROL.
 - INSTALL CARBON MONOXIDE AND NITROGEN DIOXIDE DETECTOR AS SUPPLIED BY MECHANICAL CONTRACTOR COORDINATE CONTROL WIRING AND EXHAUST FAN/LOUVER WITH MECHANICAL CONTRACTOR. PROVIDE MANUAL/OVERRIDE STARTER AND DISCONNECT. VERIFY LOCATION WITH ARCHITECT.
 - EXHAUST FAN LOCATION. PROVIDE POWER. COORDINATE WITH MECHANICAL CONTRACTOR. SEE EXHAUST FAN SCHEDULE.
 - LOUVER LOCATION. PROVIDE POWER. COORDINATE WITH MECHANICAL CONTRACTOR. SEE LOUVER SCHEDULE.
 - FURNACE LOCATION. PROVIDE POWER. COORDINATE WITH MECHANICAL CONTRACTOR. SEE FURNACE SCHEDULE.

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ELECTRICAL PLAN

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