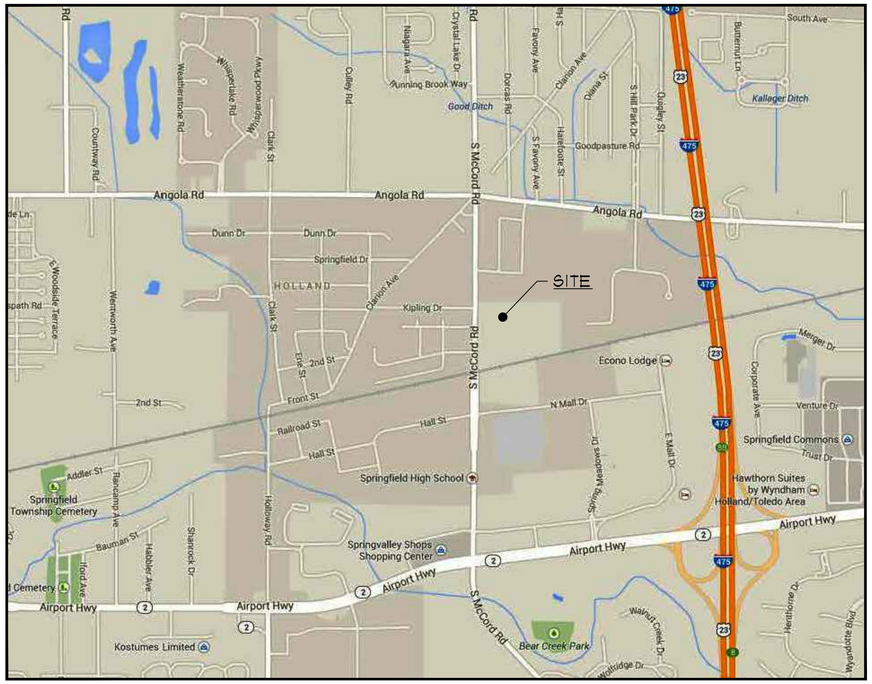
ADDITION TO VEHICLE BUILDING 'B'

FOR THE

LUCAS COUNTY
SANITARY ENGINEER'S OFFICE

HOLLAND, OHIO



NORTH

VICINITY PLAN

SCALE: N.T.S.

OWNER:
LUCAS COUNTY SANITARY ENGINEER
1111 SOUTH McCORD ROAD
HOLLAND, OHIO 43528

ARCHITECT & ENGINEER:
BUEHRER GROUP
ARCHITECTURE & ENGINEERING, INC.
314 CONANT STREET
MAUMEE, OHIO 43537
(419) 893-9021

CIVIL ENGINEER:
GLASS CITY
ENGINEERING & SURVEYING, LLC
7057 BARENDT ROAD
TOLEDO, OHIO 43617
(419) 283-8362

BUILDING CODE DATA (2011 OBC)

USE GROUPS (OBC CHAPTER 3):
S-2 (EXISTING & NEW ADDITION - VEHICLE PARKING GARAGE)
NOTE: NO SPRINKLER SYSTEM IN EXISTING OR NEW ADDITION

TYPE OF CONSTRUCTION (OBC CHAPTER 6):
VB

TOTAL BUILDING AREA (OBC 502):

BASE BID:			ALTERNATE G-1:		
EXISTING BUILDING	= 9,328 SF		EXISTING BUILDING	= 9,328 SF	
NEW ADDITION	= 2,057 SF		NEW ADDITON	= 2,631 SF	
TOTAL AREA (BASE BID)	= 11,385 SF		TOTAL AREA (BASE BID)	= 11,959 SF	

ALLOWABLE AREAS (OBC TABLE 503):
S-2 = 2 ST. @ 40' = 13,500 SF

ALLOWABLE AREAS W/ MODIFICATIONS (OBC 506):
NO AREA INCREASES TAKEN

BASE BID:
$A_a = A_t + (\text{frontage} \times \text{perimeter})$ (OBC 506.1)
$A_a = 13,500 + (0 \times 0) = 13,500 + 0 = 13,500$ SF
ALLOWABLE AREA = 13,500 SF
ACTUAL AREA OF 11,385 SF IS LESS THAN ALLOWABLE AREA OF 13,500 SF

ALTERNATE G-1:
$A_a = A_t + (\text{frontage} \times \text{perimeter})$ (OBC 506.1)
$A_a = 13,500 + (0 \times 0) = 13,500 + 0 = 13,500$ SF
ALLOWABLE AREA = 13,500 SF
ACTUAL AREA OF 11,959 SF IS LESS THAN ALLOWABLE AREA OF 13,500 SF

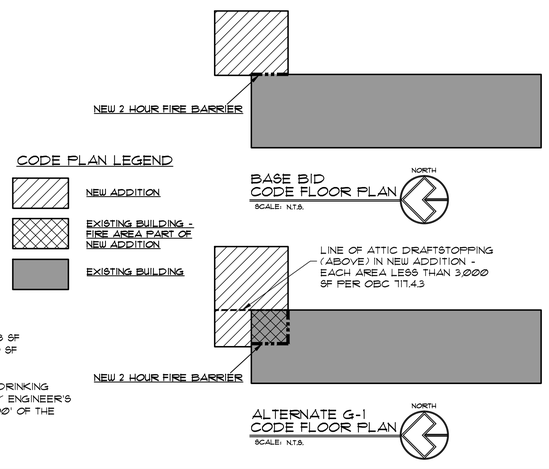
SEPARATE FIRE AREAS (OBC 707.3.9):
A 2 HOUR FIRE BARRIER WILL BE PROVIDED BETWEEN THE NEW ADDITION AND THE EXISTING BUILDING TO PROVIDE SEPARATE FIRE AREAS (OBC 707.3.9 & TABLE 707.3.9). THE FIRE AREAS ARE AS FOLLOWS:

BASE BID (FIRE AREAS):			ALTERNATE G-1 (FIRE AREAS):		
EXISTING BUILDING	= 9,328 SF		EXISTING BUILDING	= 8,788 SF	
NEW ADDITION	= 2,057 SF		NEW ADDITION	= 3,110 SF	

OCCUPANT LOADS (OBC 1004):
EXISTING BUILDING = 31
NEW ADDITION = 7 (BASE BID) & 9 (ALTERNATE G-1)
TOTAL = 38 (BASE BID) & 40 (ALTERNATE G-1)

PLUMBING FIXTURES (OBC TABLE 2902.1):
NOTE: MEN'S AND WOMEN'S RESTROOM FACILITIES AND DRINKING FOUNTAINS ARE PROVIDED IN THE MAIN SANITARY ENGINEER'S BUILDING ON SITE. THE FACILITIES ARE WITHIN 500' OF THE NEW ADDITION PER OBC 2902.3.2

STRUCTURAL DESIGN LOADS:
SEE STRUCTURAL DRAWINGS



COEFFICIENTS OF HEAT TRANSMISSION

NEW ADDITION

WALLS:

INSIDE SURFACE (STILL AIR)	R=0.68
METAL LINER PANEL	R=0.00
6" BATT INSUL.	R=19.00
METAL SIDING	R=0.00
OUTSIDE SURFACE (15 MPH WIND)	R=0.17
TOTAL:	R_T=19.85

$U_t = \frac{1}{R_T} = \frac{1}{19.85} = 0.0504 \frac{BTU}{h\text{-}ft^2\text{-}F}$

NOTE: 6X6 WOOD POSTS AND 6" BATT INSULATION MAKE UP THE R-38 CONTINUOUS INSULATION REQUIREMENT PER ASHRAE 90.1-2007. THE WOOD POST R-VALUE IS 8.25.

ROOF:

INSIDE SURFACE (STILL AIR)	R=0.68
12" BATT INSUL.	R=38.00
ATTIC SURFACE (STILL AIR)	R=0.17
TOTAL:	R_T=38.85

$U_t = \frac{1}{R_T} = \frac{1}{38.85} = 0.0257 \frac{BTU}{h\text{-}ft^2\text{-}F}$

LIST OF DRAWINGS

TS1 - TITLE SHEET & CODE INFORMATION

ARCHITECTURAL
C1 - OVERALL SITE PLAN
SP-1/1 - STORM WATER & GRADING PLAN

D1 - DEMOLITION PLAN

A1 - FLOOR PLAN & ROOM FINISH SCHEDULE
A2 - ELEVATIONS & DETAILS
A3 - SECTIONS, DOOR SCHEDULE & DETAILS

STRUCTURAL
S1 - FOUNDATION PLAN
S2 - ROOF FRAMING PLAN

MECHANICAL
M1 - MECHANICAL & PLUMBING PLANS

ELECTRICAL
E1 - ELECTRICAL & LIGHTING PLANS

NOTE:
ALL CONTRACTORS SEE "GENERAL PROJECT NOTES" ON DRAWING D1.

STATE OF OHIO
KENT D. BUEHRER
11087
REGISTERED ARCHITECT

KENT D. BUEHRER, LICENSE #11087
EXPIRATION DATE 12/31/15

STATE OF OHIO
HUBER H. BUEHRER
21224
REGISTERED PROFESSIONAL ENGINEER

ADDITION TO VEHICLE BUILDING 'B'
FOR THE
LUCAS COUNTY
SANITARY ENGINEER'S OFFICE
HOLLAND, OHIO

BUEHRERGROUP
architecture & engineering, inc.
314 CONANT ST., MAUMEE, OH 43537 | P 419.893.9021 F 419.893.9027 | BUEHRERGROUP.COM

REVISION SCHEDULE

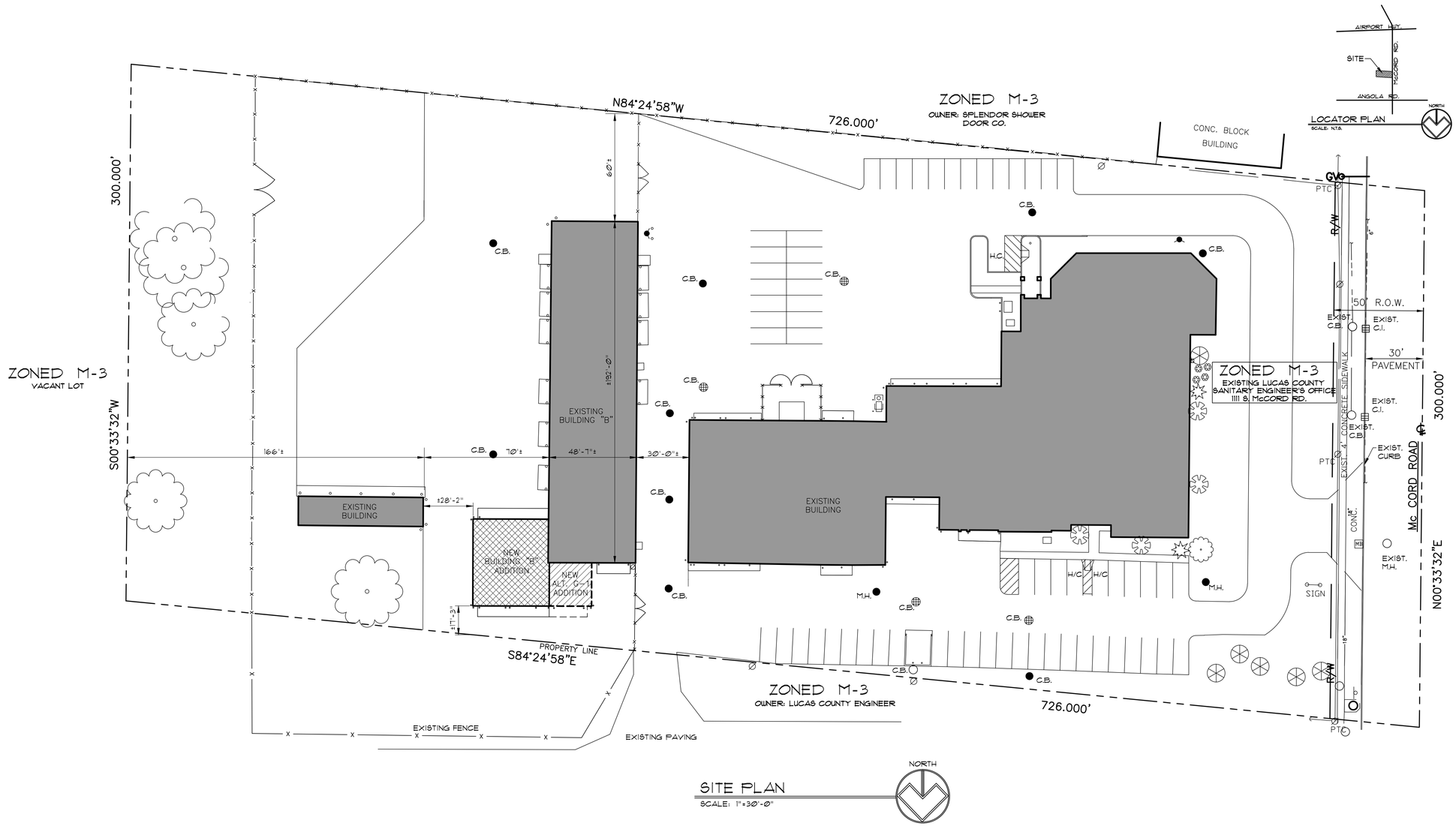
1	.

ISSUE DATE: 04/11/14

JOB NUMBER: 140208

CONSTRUCTION DOCUMENTS

TS1



SITE PLAN

SCALE: 1"=30'-0"

NORTH

HATCH LEGEND:	
	EXISTING BUILDINGS
	NEW ADDITION (BASE BID)
	NEW ADDITION (ALTERNATE G-1)

KENT D. BUEHRER
STATE OF OHIO
REGISTERED ARCHITECT
11087

KENT D. BUEHRER, LICENSE #11087
EXPIRATION DATE 12/31/15

KENT D. BUEHRER
STATE OF OHIO
REGISTERED PROFESSIONAL ENGINEER
54249

ADDITION TO VEHICLE BUILDING 'B'
FOR THE
LUCAS COUNTY
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HOLLAND, OHIO

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REVISION SCHEDULE

1	-

ISSUE DATE: 04/11/14

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CONSTRUCTION DOCUMENTS

C1

GENERAL NOTES

ALL MATERIALS AND CONSTRUCTION WILL BE IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION (ODOT) DATED JANUARY 1, 2013. ODOT SPECIFICATIONS ARE SUBJECT TO ADDENDA BY THE LUCAS COUNTY ENGINEERS OFFICE. ALL STANDARDS REFERRED TO IN THESE PLANS WILL BE IN ACCORDANCE WITH THE CURRENT LUCAS COUNTY CONSTRUCTION STANDARDS, UNLESS OTHERWISE NOTED. IN ADDITION, ALL WORK WILL BE IN COMPLIANCE WITH ALL APPLICABLE FEDERAL AND STATE STANDARDS AND REGULATIONS. IF THERE SHOULD ARISE ANY CONFLICT BETWEEN ANY NOTES AN/OR DETAIL ON THE APPROVED DRAWINGS OR SPECIFICATIONS FOR THE PROJECT, THIS NOTE WILL SUPERSEDE AND GOVERN UNLESS THERE IS A WRITTEN SIGNED DOCUMENT FROM THE LUCAS COUNTY ENGINEERS OFFICE STATING OTHERWISE.

UNDERGROUND UTILITIES

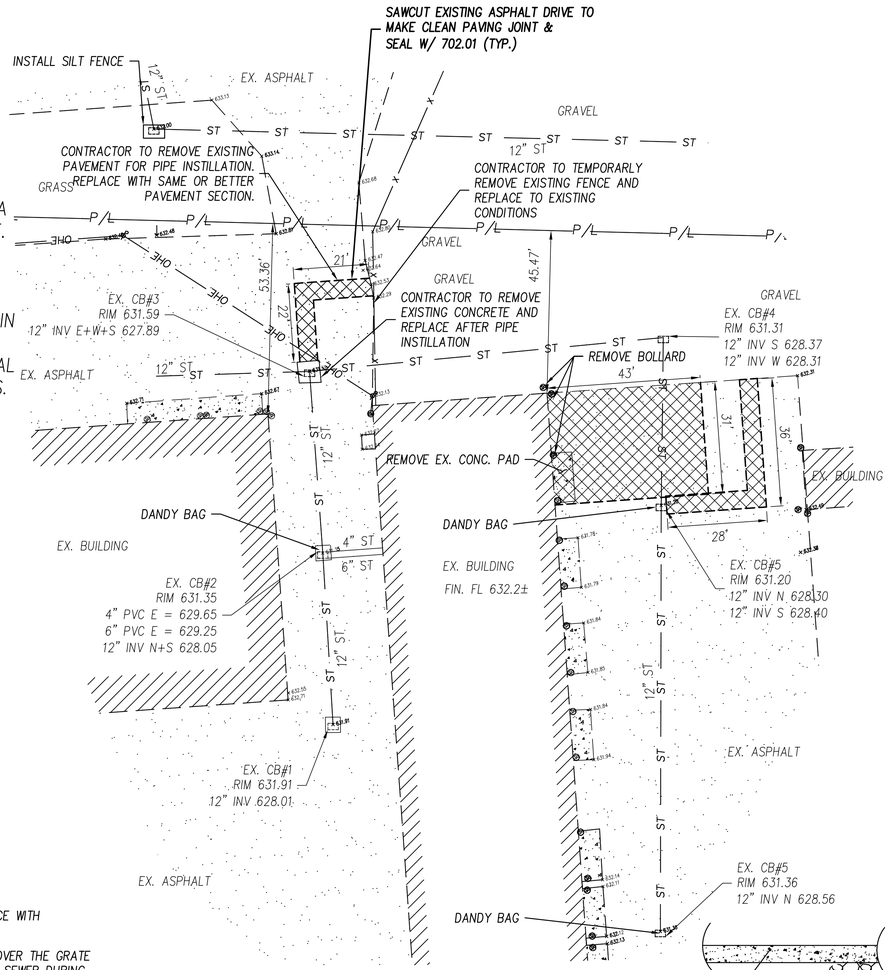
TWO WORKING DAYS
BEFORE YOU DIG
Call 800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENT OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

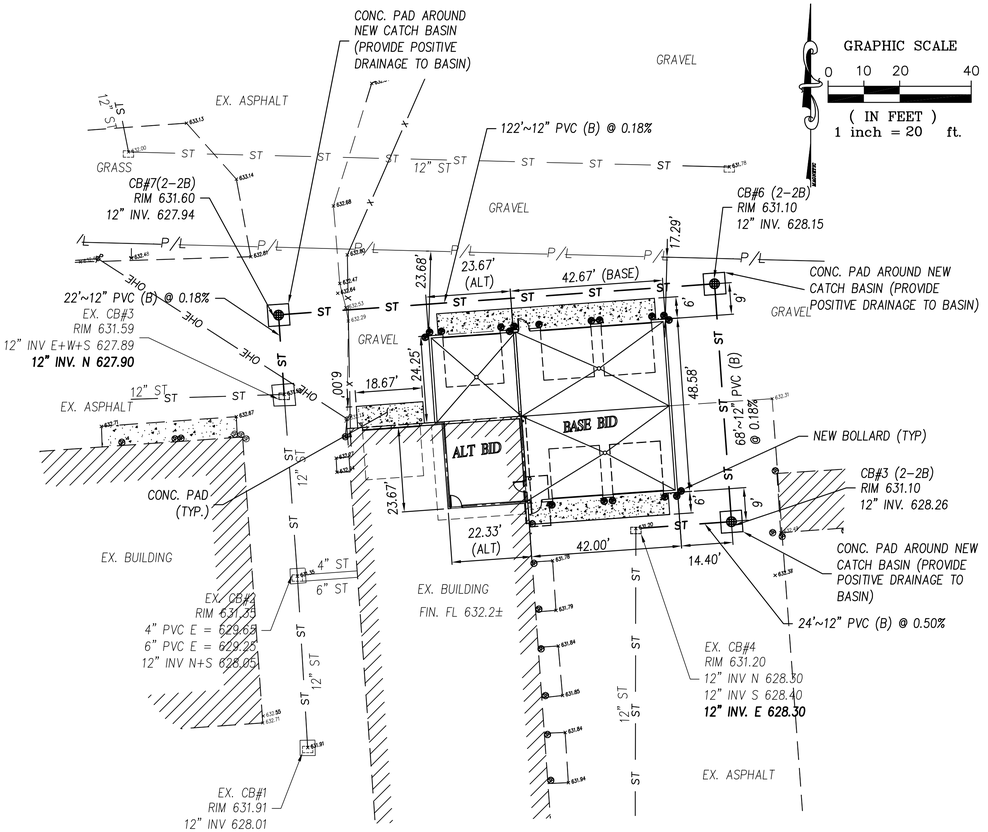
GENERAL NOTES

1. ALL CONSTRUCTION ACTIVITIES TO OPERATE IN COMPLIANCE WITH TOWNSHIPZONING ORDINANCE REQUIREMENTS.
2. ALL CATCH BASINS SHALL HAVE FILTER FABRIC PLACED OVER THE GRATE TO PREVENT SOIL MATERIALS FROM ENTERING THE STORM SEWER DURING CONSTRUCTION. TYPICALLY A DANDY BAG IS USED.

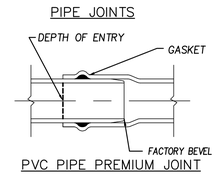
EXISTING ASPHALT
EXISTING CONCRETE
EXISTING BUILDING
PROPOSED CONCRETE

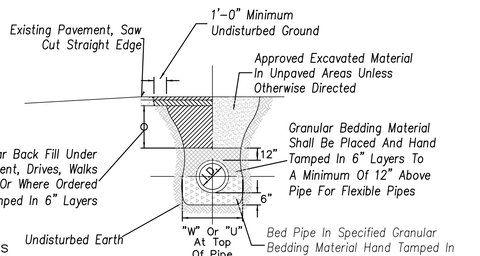


EXISTING SITE CONDITIONS



PROPOSED SITE CONDITIONS





NOTES

"W" Is The Maximum Width For Rigid Pipes

"U" Is The Minimum Width For Flexible Pipes In Accordance With ASTM D-2321

Granular Material Shall Meet Requirements Of City Of Toledo Addendum Item 604.04

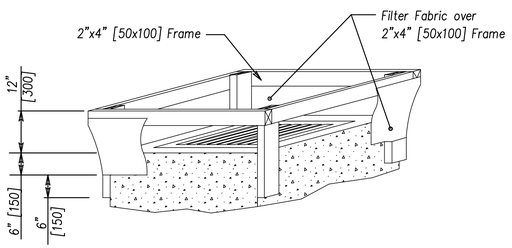
SIZE	"W"	"U"**
6"	2'-6"	2'-0"
8"	2'-6"	2'-1"
10"	2'-6"	2'-3"
12"	2'-9"	2'-5"
15"	3'-0"	2'-8"
18"	3'-6"	3'-0"
21"	3'-11"	3'-4"
24"	4'-3"	3'-8"
27"	5'-6"	3'-11"
30"	5'-9"	4'-4"
36"	6'-3"	5'-2"

TRENCH SCHEDULE

**TABLE IS FOR ASTM D-3034, WALL THICKNESS CLASS SDR 35 FOR 6"-15" AND ASTM F-679 WALL THICKNESS CLASS T-1 FOR 18"-36". FOR OTHER FLEXIBLE PIPES, MINIMUM TRENCH WIDTH "U" SHALL MEET MANUFACTURER'S REQUIREMENTS.

STORM TRENCH DETAIL

NO SCALE



MATERIALS: Filter Fabric shall meet the requirements of CMS 712.09, Type C. The framing wood shall be construction grade 2"x4" [50x100] lumber.

CONSTRUCTION: Excavate a 6" [150] deep trench around the inlet, then drive the 2"x4" [50x100] posts 6" [150] below the excavated trench. Construct the wooden frame using the overlap joint detail shown above. The filter fabric shall be stretched around the wooden frame and securely fastened. The filter fabric shall overlap across one side of the inlet such that the ends of the filter fabric are not attached to the same post. Backfill and compact the excavated soil.

PAVED AREAS: Temporary inlet protection in paved areas shall consist of fabric placed over the catch basin grate and secured between the frame and grate. Place a 3" layer of pea gravel over the geotextile fabric.

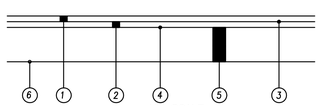
MAINTENANCE: The filter fabric shall be maintained to be functional, This shall include removal of trapped sediment and required cleaning, repair, and/or replacement of the filter fabric. The maintenance or replacement cost will be paid for by the Contractor.

TEMPORARY INLET PROTECTION

NO SCALE

TYPICAL SECTION- CONCRETE

N.T.S.



NO SCALE

NOTE: REPLACED PAVEMENT TO EQUAL OR EXCEED EXISTING PAVEMENT.

TYPICAL PAVEMENT SECTION

1. 2" - 448 - AC SURFACE COURSE, TYPE 1, PG 64-22
2. 2" - 448 - AC INTER. COURSE TYPE 2, PG 64-22
3. 407 TACK COAT
4. 408 - BITUMINOUS PRIME COAT @ 0.35 GAL./S.Y.
5. 8" - 304 - AGGREGATE BASE
6. 204 - SUBGRADE COMPACTION

1. 6" - ITEM 452, 6" PLAIN CONCRETE PAVEMENT
2. 6" - ITEM 304 - AGGREGATE BASE
3. COMPACTED SUBGRADE TO 95% OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557 MODIFIED PROCTOR.

PLANS PREPARED BY:

BRYAN D. ELLIS
P.E. 70044 P.S. 8292

STATE OF OHIO
BRYAN D. ELLIS
70044
REGISTERED PROFESSIONAL ENGINEER

NO.	ISSUED FOR:	DATE
1	1ST SUBMISSION	4-14-14

GLASS CITY ENGINEERING & SURVEYING, LLC.
7057 BARENDT ROAD
TOLEDO, OHIO 43617
419-283-8362, FAX 419-539-9867
EMAIL: BLACKBIRD_1@MSN.COM

LUCAS CO. SANITARY
ENGINEER MAINTENANCE
BUILDING ADDITION
5247 ALEXIS ROAD
CITY OF SYLVANIA, LUCAS CO., OH
SITE DIMESIONAL PLAN

DRAWN BY: BDE
JOB NUMBER: 776-1401
REVIEWED BY: BDE

SP-1/1

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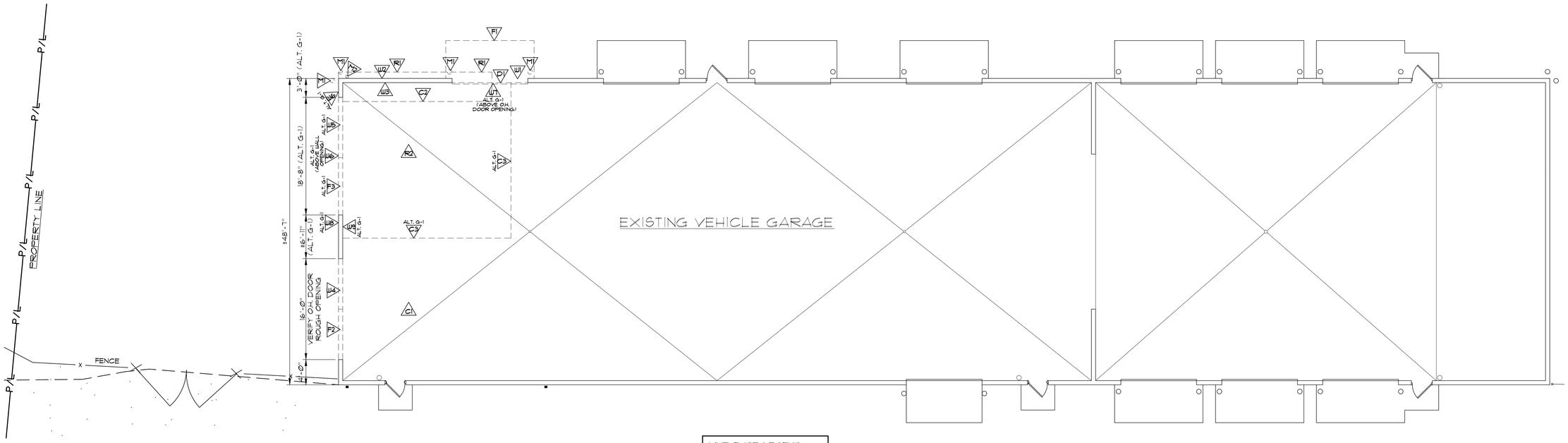

BASE BID & ALTERNATE G-1 DEMOLITION FLOOR PLAN

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

NORTH

LINE TYPE LEGEND	
TYPE	DESCRIPTION
	EXISTING WALL/ITEM TO REMAIN
	WALL/ITEM TO BE REMOVED - SEE "KEYED DEMOLITION NOTES"

KEYED DRAWING D1 (DEMOLITION) NOTES:

FLOORS:

F1 — REMOVE OVERHEAD DOOR CONC. APRON BACK TO INSIDE FACE OF WALL WOOD POST. REMOVE APRON CONC. FOUNDATION WALLS BACK TO FACE OF BUILDING CONC. FOUNDATION WALL.

F2 — REMOVE CONC. SLAB WITHIN WALL SPACE AS NEEDED TO PROVIDE SMOOTH TOP OF CONC. SLAB AND ALLOW FOR INSTALLATION OF NEW O.H. DOOR CONC. APRON. VERIFY AMOUNT TO REMOVE IN FIELD WITH ARCHITECT.

F3 (ALT. G-1) — UNDER ALT. G-1 - REMOVE CONC. SLAB WITHIN WALL SPACE AS NEEDED TO PROVIDE SMOOTH TOP OF CONC. SLAB AND ALLOW FOR TIE-IN OF NEW ADDITION CONC. FLOOR SLAB. VERIFY AMOUNT TO REMOVE IN FIELD WITH ARCHITECT.

WALLS:

W1 — REMOVE ALL OVERHEAD DOOR METAL SIDING JAMB AND HEADER TRIM. REMOVE EXTERIOR METAL SIDING, TRIM, ETC. AND INTERIOR METAL LINER PANEL, TRIM, ETC. ABOVE OVERHEAD DOOR AS NEEDED TO ALLOW FOR NEW WALL INFILL OF OVERHEAD DOOR OPENING.

W2 — FOR SECTION OF EXTERIOR WALL WITHIN NEW ADDITION - REMOVE ALL EXTERIOR METAL SIDING, TRIM, ETC. AND WOOD GIRTS DOWN TO WOOD POSTS AS NEEDED TO ALLOW FOR NEW FIRE RATED WALL AND OTHER WORK.
NOTE: UNDER ALT. G-1 - ONLY REMOVE EXTERIOR METAL SIDING.

W3 — FOR SECTION OF EXTERIOR WALL WITHIN NEW ADDITION - REMOVE ALL INTERIOR METAL LINER PANEL, TRIM, ETC. AND WOOD GIRTS DOWN TO WOOD POSTS AS NEEDED TO ALLOW FOR NEW FIRE RATED WALL AND OTHER WORK. SAVE, MODIFY, AND REINSTALL LINER PANEL OVER NEW DRYWALL AND PROVIDE NEW TRIM.
NOTE: UNDER ALT. G-1 - DISREGARD THIS DEMOLITION NOTE.

W4 — REMOVE EXTERIOR METAL SIDING, INTERIOR METAL LINER PANEL, WOOD GIRTS, WOOD POSTS/OTHER STRUCTURE, ETC. AS NEEDED TO INSTALL NEW WOOD STRUCTURE AND PROVIDE NEW OVERHEAD DOOR OPENING. SAVE, MODIFY, AND REINSTALL METAL SIDING AND LINER PANEL AROUND NEW OPENING AND PROVIDE NEW TRIM. SAVE REMAINING EXTERIOR METAL SIDING AND INTERIOR METAL LINER PANEL - REUSE TO INFILL PART OF THE EAST OVERHEAD DOOR OPENING AND FOR OTHER SIDING AND LINER PANEL PATCHING.

W5 (ALT. G-1) — UNDER ALT. G-1 - REMOVE EXTERIOR METAL SIDING, INTERIOR METAL LINER PANEL, WOOD GIRTS, WOOD POSTS/OTHER STRUCTURE, ETC. AS NEEDED TO INSTALL NEW WOOD STRUCTURE AND PROVIDE NEW WALL OPENING. SAVE, MODIFY, AND REINSTALL METAL LINER PANEL AROUND NEW OPENING AND PROVIDE NEW TRIM.

W6 (ALT. G-1) — UNDER ALT. G-1 - FOR SECTION OF EXTERIOR WALL WITHIN NEW ADDITION - REMOVE EXTERIOR METAL SIDING, TRIM, ETC. DOWN TO WOOD GIRTS.

W7 (ALT. G-1) — UNDER ALT. G-1 - REMOVE INTERIOR LINER PANEL, TRIM, ETC. AS NEEDED TO ALLOW FOR FIRE RATED WALL EXTENSION TO INSIDE FACE OF EXTERIOR METAL SIDING. SAVE, MODIFY, AND REINSTALL METAL LINER PANEL UP TO NEW FIRE RATED WALL AND PROVIDE NEW TRIM.

W8 (ALT. G-1) — UNDER ALT. G-1 - REMOVE ALL EXTERIOR METAL SIDING, TRIM, ETC. AND WOOD GIRTS DOWN TO WOOD POSTS AS NEEDED TO ALLOW FOR NEW FIRE RATED WALL AND OTHER WORK.

W9 (ALT. G-1) — UNDER ALT. G-1 - REMOVE ALL INTERIOR METAL LINER PANEL, TRIM, ETC. AND WOOD GIRTS DOWN TO WOOD POSTS AS NEEDED TO ALLOW FOR NEW FIRE RATED WALL AND OTHER WORK. SAVE, MODIFY, AND REINSTALL LINER PANEL OVER NEW DRYWALL AND PROVIDE NEW TRIM.

DOORS:

D1 — REMOVE ENTIRE OVERHEAD DOOR, TRACK, DOOR OPERATOR, TRACK SUPPORT STRUCTURE, ETC. PATCH HOLES IN LINER PANEL.

CEILINGS:

C1 — REMOVE, MODIFY, AND REINSTALL CEILING METAL LINER PANEL AS NEEDED TO INSTALL NEW OVERHEAD DOOR TRACK SUPPORT STRUCTURE. PROVIDE NEW LINER PANEL TRIM AS NEEDED.

C2 — REMOVE CEILING METAL LINER PANEL AND INSULATION AS NEEDED TO ALLOW FOR NEW FIRE RATED WALL WORK. SAVE AND REINSTALL INSULATION AND METAL LINER PANEL.
NOTE: UNDER ALT. G-1 - DISREGARD THIS DEMOLITION NOTE.

C3 (ALT. G-1) — UNDER ALT. G-1 - REMOVE CEILING METAL LINER PANEL AND INSULATION FROM NORTHEAST CORNER OF EXISTING BUILDING OUT PAST THE LOCATION OF ALT. G-1 NEW FIRE RATED WALLS. REMOVE LINER PANEL TO A DISTANCE PAST NEW FIRE RATED WALLS AS NEEDED TO INSTALL NEW FIRE RATED WALLS. SAVE, MODIFY, AND REINSTALL LINER PANEL - PROVIDE NEW LINER PANEL TRIM AS NEEDED.

ROOF:

R1 — REMOVE ENTIRE ROOF EAVE OVERHANG AND GUTTER IN AREA OF NEW ADDITION BACK TO EXTERIOR FACE OF WALL WOOD POSTS.

R2 — REMOVE METAL ROOFING, TRIM, ETC. AS NEEDED TO TIE-IN NEW METAL ROOFING INTO EXISTING AND INSTALL NEW ROOF AND WALL STRUCTURE.

MISCELLANEOUS:

M1 — REMOVE GUARD POST ALONG WITH ENTIRE IN-GROUND CONC. BASE AND FILL HOLE.

M2 — REMOVE DOWNSPOUT.

GENERAL PROJECT NOTES:

1. ALL CONTRACTORS TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE. INFORMATION ON THESE DRAWINGS ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTORS FOR BIDDING. CONTRACTORS ARE TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD AND NOTIFY THE ARCHITECT/ENGINEER OF ANY VARIATIONS.
2. NOT ALL EXISTING ITEMS THAT ARE MOUNTED ON EXISTING WALLS / FLOORS / CEILINGS ARE SHOWN ON THE PLANS, THIS INCLUDES BUT IS NOT LIMITED TO OUTLETS, SWITCHES, THERMOSTATS, BUILT-IN EQUIPMENT, SIGNAGE, ETC.. EACH CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CONDITIONS, LOCATIONS, AND DIMENSIONS.
3. ALL CONTRACTORS, WHERE EXISTING EQUIPMENT, WALLS, DOORS, FIXTURES, CEILING, ETC. ARE TO BE REMOVED FROM A FINISHED SURFACE TO REMAIN THE FINISHED SURFACE IS TO BE PATCHED WITH MATERIALS TO MATCH THE SURROUNDING CONSTRUCTION BY THE CONTRACTOR RESPONSIBLE FOR THE WORK (UNLESS NOTED OTHERWISE).
4. ALL DIMENSIONS ARE FROM FACE OF EXISTING WOOD WALL GIRTS UNLESS NOTED OTHERWISE.
5. ALL CONTRACTORS ARE TO COORDINATE ALL WORK WITH THE OWNER.
6. ALL CONTRACTORS ARE TO PROTECT ALL ITEMS OF BUILDING TO REMAIN FROM DAMAGE DURING DEMOLITION / CONSTRUCTION ACTIVITIES. THIS INCLUDES PROVIDING TEMPORARY ENCLOSURES AT ALL OPENINGS BETWEEN AREAS OF BUILDING WITH DEMOLITION / CONSTRUCTION ACTIVITIES AND PORTIONS OF BUILDING WITHOUT DEMOLITION / CONSTRUCTION ACTIVITIES PRIOR TO AND DURING THE WORK. EACH CONTRACTOR IS TO REPAIR ANY DAMAGE (TO MATCH CONDITIONS PRIOR TO DEMOLITION / CONSTRUCTION) TO PORTIONS OF BUILDING TO REMAIN CAUSED BY THEIR DEMOLITION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
7. GENERAL CONTRACTOR TO PROVIDE TEMPORARY SECURE ENCLOSURE OF EXISTING BUILDING DURING DEMOLITION / CONSTRUCTION WORK UNTIL NEW WORK IS COMPLETELY ENCLOSED AND CAN BE SECURED.
8. ALL CONTRACTORS ARE TO CLEAN ALL SURFACES IN THE AREAS OF CONSTRUCTION AT THE END OF CONSTRUCTION TO REMOVE ALL DUST, DEBRIS, ETC. DEPOSITED BY CONSTRUCTION ACTIVITIES.
9. CONTRACTORS ARE TO REVIEW ALL DRAWINGS FOR ANY ADDITIONAL WORK UNDER THEIR SCOPE OF WORK.
10. GENERAL CONTRACTOR IS TO PROVIDE WOOD BLOCKING/STRUCTURE IN WALLS/CEILINGS FOR MOUNTING FIXTURES, EQUIPMENT, O.H. DOOR TRACK, ETC. UNDER THEIR CONTRACT (UNLESS NOTED OTHERWISE). ALL OTHER CONTRACTORS TO PROVIDE BLOCKING/STRUCTURE AS NEEDED FOR THEIR WORK.
11. ALL CONTRACTORS ARE TO SEAL ALL PENETRATIONS/OPENINGS/JOINTS IN NEW FIRE RATED WALLS WITH THE APPROPRIATE FIRESTOPPING MATERIALS/DETAIL PER SPEC SECTION 07 84 00 IN WORK AREA AND AS NOTED ON DRAWINGS.
12. GENERAL CONTRACTOR TO SAVE, MODIFY, AND REUSE EXISTING METAL SIDING AND INTERIOR LINER PANEL AS MUCH AS POSSIBLE FOR PATCHING, INFILL, ETC. ON EXISTING BUILDING ONLY. PROVIDE NEW TRIM AS NEEDED AND MATCH EXISTING.

STATE OF OHIO
KENT D. BUEHRER
11087
REGISTERED ARCHITECT
KENT D. BUEHRER, LICENSE #11087
EXPIRATION DATE 12/31/15

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FOR THE
LUCAS COUNTY
SANITARY ENGINEER'S OFFICE
HOLLAND, OHIO

BUEHRERGROUP architecture & engineering, inc.
314 CONANT ST. MAUMEE, OH 43537 | P 419.893.9021 F 419.893.9027 | BUEHRERGROUP.COM

REVISION SCHEDULE

1	-

ISSUE DATE: 04/11/14

JOB NUMBER: 140208

CONSTRUCTION DOCUMENTS

D1

ROOM FINISH SCHEDULE

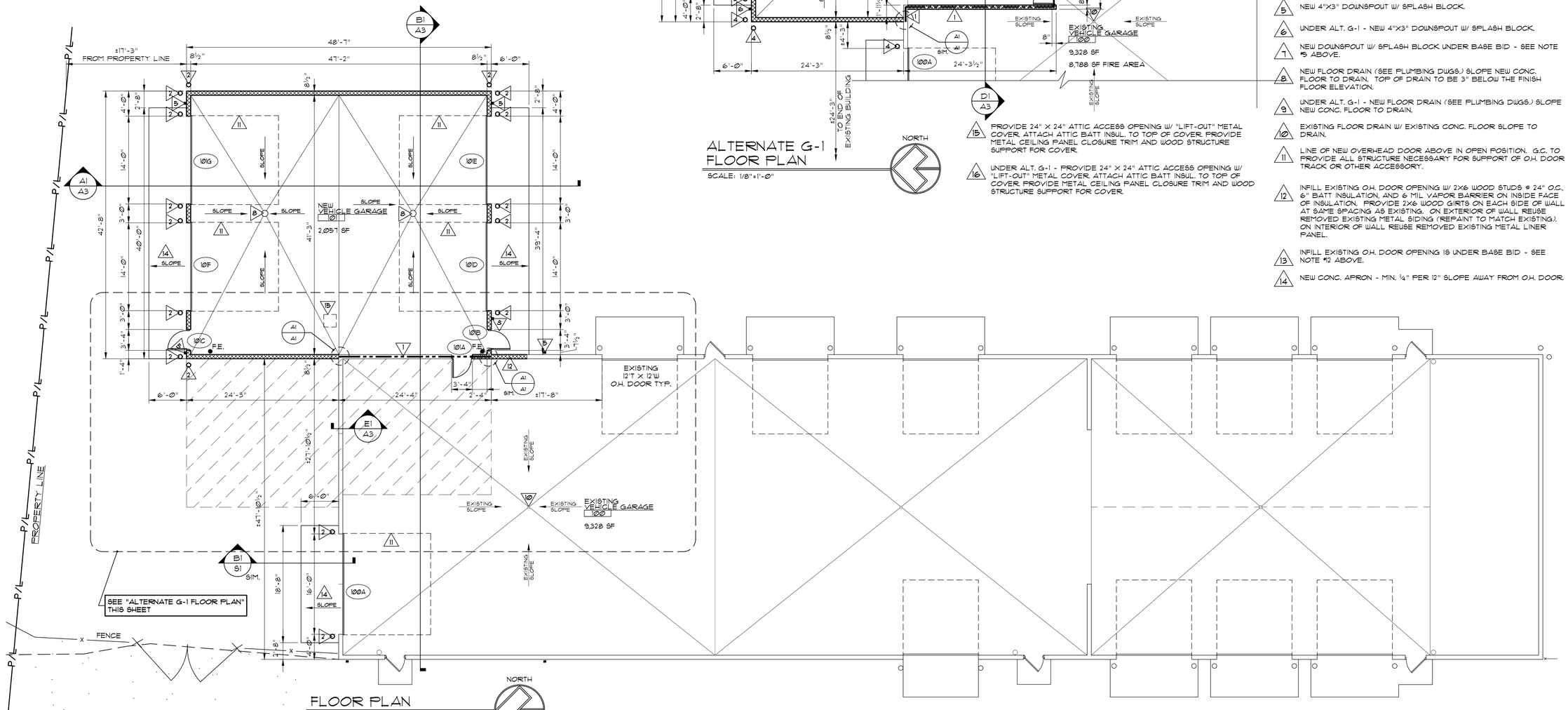
No.	ROOM	FLOOR	BASE	WALL				CEILING	CEILING HEIGHT	REMARKS
				NORTH	EAST	SOUTH	WEST			
100	EXISTING VEHICLE GARAGE	1	1	1, 3, 4	1, 3, 4	1	1	1, 3	±14'-7"	-
101	NEW VEHICLE GARAGE	2	1	2	2	2	2	2	16'-7"	-
102	EXISTING VEHICLE GARAGE ('ALT. G-1)	1	1	1, 3	1	2	2	3	±14'-7"	-

FLOOR:
1. EXISTING CONCRETE
2. SEALED CONCRETE

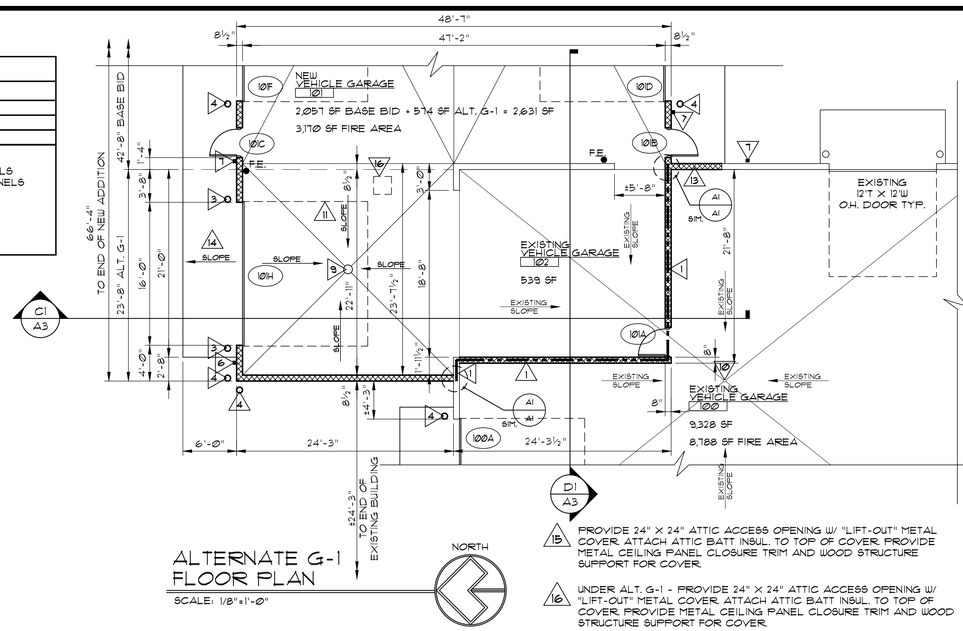
BASE:
1. NO BASE

WALL:
1. EXISTING METAL LINER PANELS
2. PRE-FINISHED METAL LINER PANELS
3. REUSE EXISTING METAL LINER PANELS
4. UNDER ALT. G-1 - EXISTING METAL LINER PANELS, PRE-FINISHED METAL LINER PANELS, AND REUSE EXISTING METAL LINER PANELS

CEILING:
1. EXISTING METAL LINER PANELS
2. PRE-FINISHED METAL LINER PANELS
3. REUSE EXISTING METAL LINER PANELS



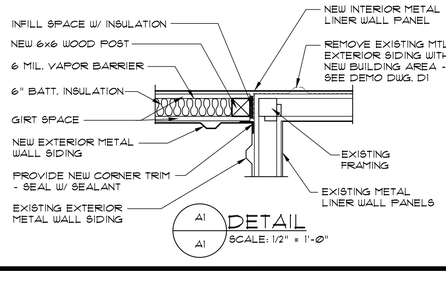
FLOOR PLAN
SCALE: 1/8"=1'-Ø"



ALTERNATE G-1 FLOOR PLAN
SCALE: 1/8"=1'-Ø"

KEYED DRAWING A1 NOTES:

1. 2 HOUR FIRE RATED ASSEMBLY PER OBC TABLE 720.1(2) - 15-1.16: 2X6 WOOD STUDS AT 24" O.C. W/ DOUBLE TOP PLATES AND SINGLE BOTTOM PLATE. BOTH SIDES COVERED W/ TWO LAYERS OF 5/8" TYPE X GYPSUM WALLBOARD, 4' WIDE, APPLIED HORIZONTALLY W/ VERTICAL JOINTS OVER STUDS. BASE LAYER FASTENED W/ 2¼" TYPE S DRYWALL SCREWS, SPACED 24" O.C. AND FACE LAYER FASTENED W/ TYPE S DRYWALL SCREWS, SPACED 8" O.C., WALLBOARD JOINTS COVERED W/ PAPER TAPE AND JOINT COMPOUND, FASTENER HEADS COVERED W/ JOINT COMPOUND. CAVITY TO BE FILLED W/ 5½" MINERAL WOOL INSULATION. NOTE: PLACE NEW OR REUSED METAL LINER PANEL OVER DRYWALL BOTH SIDES - SEE WALL SECTIONS FOR ADDITIONAL INFORMATION. NOTE: 2 HOUR WALL IS TO BE CONTINUOUS FROM FLOOR TO BOTTOM OF METAL ROOFING. SEAL ½" TOP OF WALL JOINT TO BOTTOM OF METAL ROOFING WITH MINERAL WOOL AND FIRE SEALANT BOTH SIDES OF WALL.
2. NEW 6"ø CONC. FILLED STEEL GUARD POST - PAINT POST. SEE TYPICAL GUARD POST DETAIL THIS SHEET.
3. UNDER ALT. G-1 - NEW 6"ø CONC. FILLED STEEL GUARD POST - PAINT POST. SEE TYPICAL GUARD POST DETAIL THIS SHEET.
4. NEW GUARD POST UNDER BASE BID - SEE NOTE #2 ABOVE.
5. NEW 4"X3" DOWNSPOUT W/ SPLASH BLOCK.
6. UNDER ALT. G-1 - NEW 4"X3" DOWNSPOUT W/ SPLASH BLOCK.
7. NEW DOWNSPOUT W/ SPLASH BLOCK UNDER BASE BID - SEE NOTE #5 ABOVE.
8. NEW FLOOR DRAIN (SEE PLUMBING DWGS.) SLOPE NEW CONC. FLOOR TO DRAIN. TOP OF DRAIN TO BE 3" BELOW THE FINISH FLOOR ELEVATION.
9. UNDER ALT. G-1 - NEW FLOOR DRAIN (SEE PLUMBING DWGS.) SLOPE NEW CONC. FLOOR TO DRAIN.
10. EXISTING FLOOR DRAIN W/ EXISTING CONC. FLOOR SLOPE TO DRAIN.
11. LINE OF NEW OVERHEAD DOOR ABOVE IN OPEN POSITION. G.C. TO PROVIDE ALL STRUCTURE NECESSARY FOR SUPPORT OF O.H. DOOR TRACK OR OTHER ACCESSORY.
12. INFILL EXISTING O.H. DOOR OPENING W/ 2X6 WOOD STUDS @ 24" O.C., 6" BATT INSULATION, AND 6 MIL VAPOR BARRIER ON INSIDE FACE OF INSULATION. PROVIDE 2X6 WOOD GIRTS ON EACH SIDE OF WALL AT SAME SPACING AS EXISTING. ON EXTERIOR OF WALL REUSE REMOVED EXISTING METAL SIDING (REPAINT TO MATCH EXISTING). ON INTERIOR OF WALL REUSE REMOVED EXISTING METAL LINER PANEL.
13. INFILL EXISTING O.H. DOOR OPENING IS UNDER BASE BID - SEE NOTE #12 ABOVE.
14. NEW CONC. APRON - MIN. ¼" PER 12" SLOPE AWAY FROM O.H. DOOR.
15. PROVIDE 24" X 24" ATTIC ACCESS OPENING W/ "LIFT-OUT" METAL COVER. ATTACH ATTIC BATT INSUL. TO TOP OF COVER. PROVIDE METAL CEILING PANEL CLOSURE TRIM AND WOOD STRUCTURE SUPPORT FOR COVER.
16. UNDER ALT. G-1 - PROVIDE 24" X 24" ATTIC ACCESS OPENING W/ "LIFT-OUT" METAL COVER. ATTACH ATTIC BATT INSUL. TO TOP OF COVER. PROVIDE METAL CEILING PANEL CLOSURE TRIM AND WOOD STRUCTURE SUPPORT FOR COVER.



DETAIL
SCALE: 1/2" = 1'-Ø"

FIRE RATING LEGEND

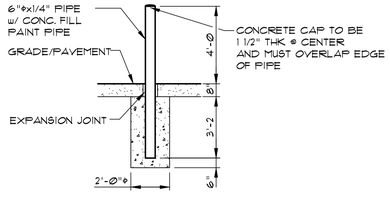
WALL TYPE	DESCRIPTION
	NEW 2 HOUR FIRE BARRIER (PER OBC TABLE 720.1(2)-15-1.16 - SEE NOTE #1 ABOVE)

WALL TYPE LEGEND

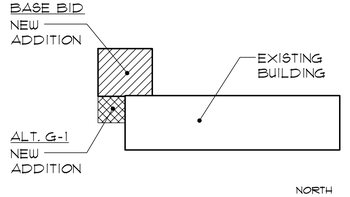
TYPE	DESCRIPTION
	EXISTING WOOD POST & WOOD GIRT WALL
	NEW WOOD POST & WOOD GIRT WALL

HATCH LEGEND:

	AREA OF ALTERNATE G-1



TYP. GUARD POST
SCALE: 1/4"=1'-Ø"



KEY PLAN
SCALE: N.T.S.

STATE OF OHIO
KENT D. BUEHRER
11087
REGISTERED ARCHITECT
KENT D. BUEHRER, LICENSE #11087
EXPIRATION DATE 12/31/15

ADDITION TO VEHICLE BUILDING 'B'
FOR THE
LUCAS COUNTY
SANITARY ENGINEER'S OFFICE
HOLLAND, OHIO

BUEHRERGROUP
architecture & engineering, inc.
314 CONANT ST. | MAUMEE, OH 43537 | P 419.893.9027 | F 419.893.9027 | BUEHRERGROUP.COM

REVISION SCHEDULE

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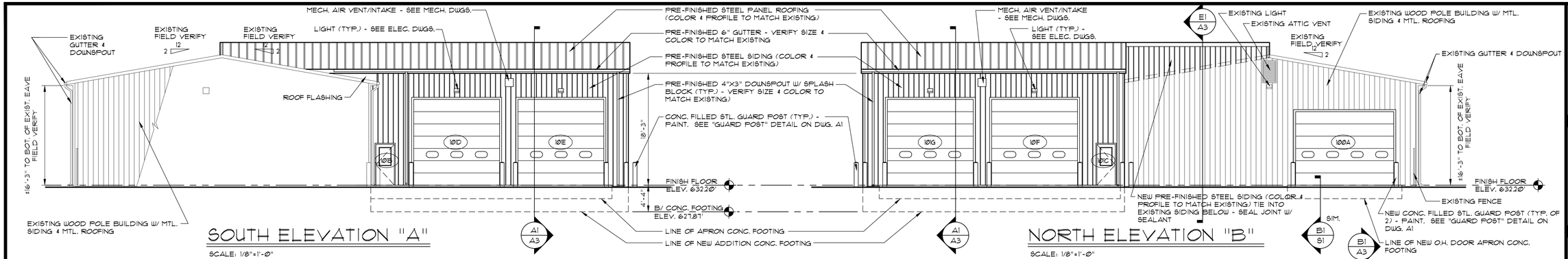
ISSUE DATE: 04/11/14

JOB NUMBER: 140208

CONSTRUCTION DOCUMENTS

A1



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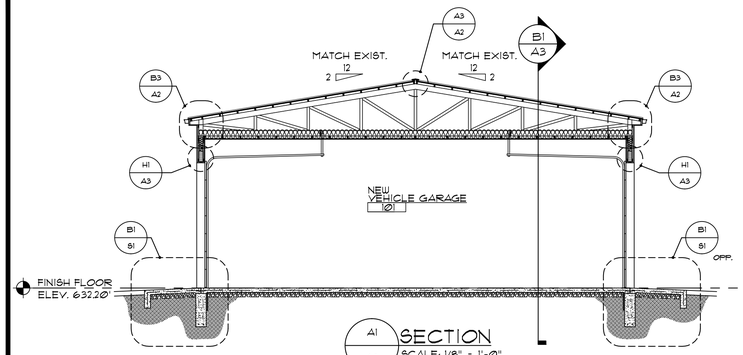
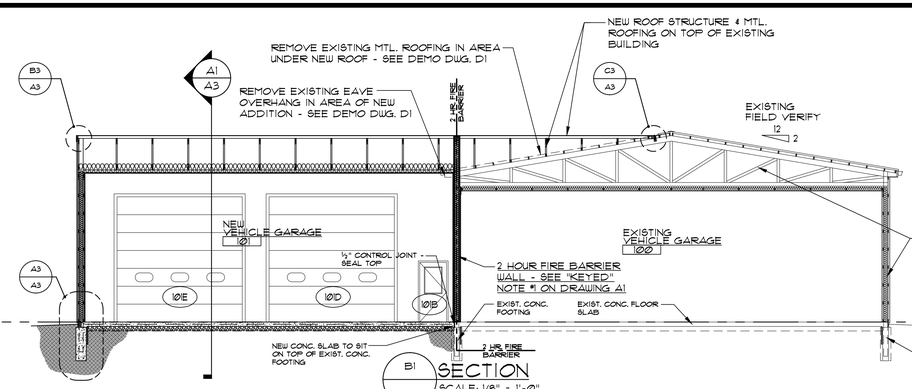
CONSTRUCTION DOCUMENTS

A2



A1 / A3 SECTION
SCALE: 1/8" = 1'-Ø"



B1 / A3 SECTION
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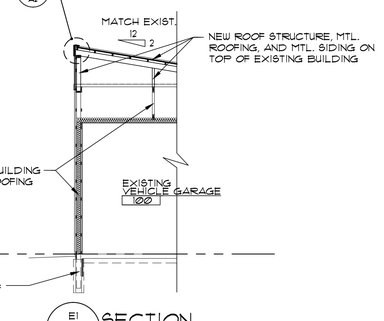
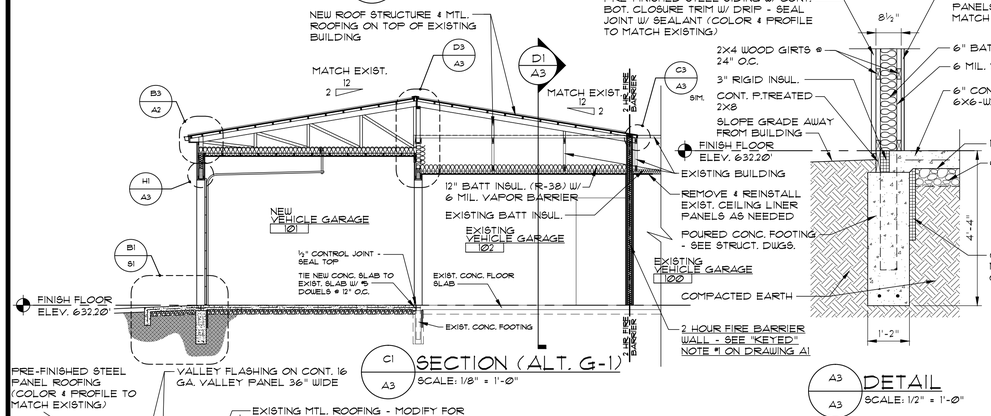
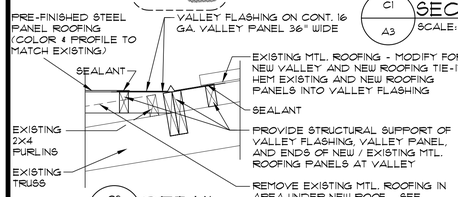


E1 / A3 SECTION
SCALE: 1/8" = 1'-Ø"

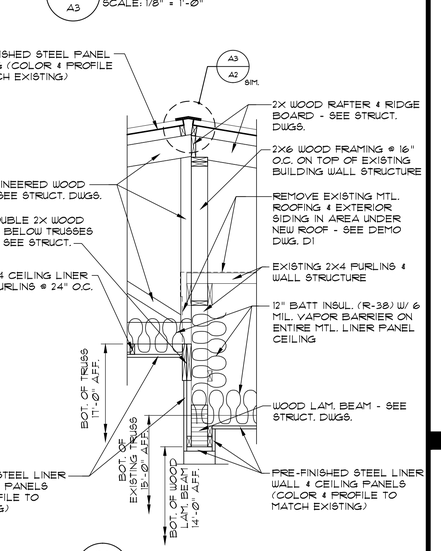


C1 / A3 SECTION (ALT. G-1)
SCALE: 1/8" = 1'-Ø"

A3 DETAIL
SCALE: 1/2" = 1'-Ø"



C3 / A3 DETAIL
SCALE: 1" = 1'-Ø"

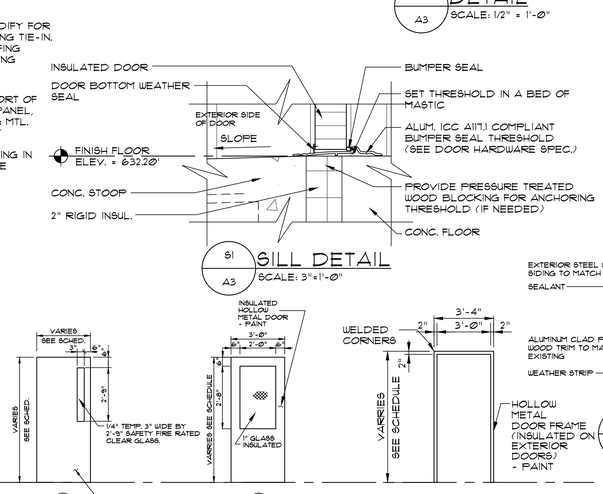


B3 / A3 DETAIL
SCALE: 1" = 1'-Ø"

D3 / A3 DETAIL (ALT. G-1)
SCALE: 1/2" = 1'-Ø"

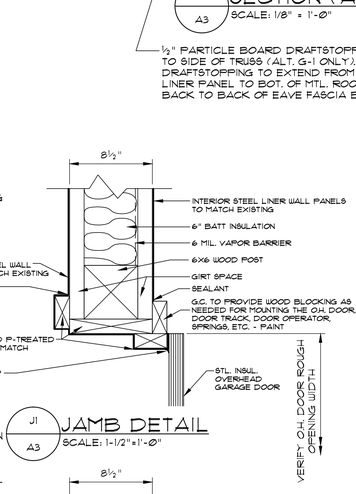
DOOR TYPES

SCALE: 1/4"=1'-Ø"



DOOR FRAME TYPES

SCALE: 1/4"=1'-Ø"

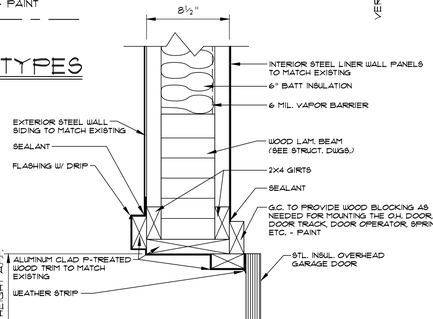


DOOR SCHEDULE

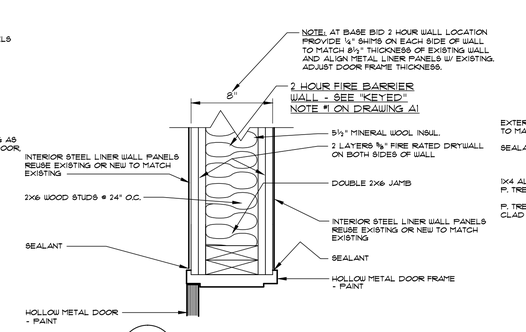
OPENING No.	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	DOOR LOUVER TYPE	DOOR LOUVER W	DOOR LOUVER H	DOOR MATERIAL/ FINISH	FRAME SIZE W	FRAME SIZE H	FRAME TYPE	FRAME MATERIAL/ FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	OPENING U.L. LABEL	OPENING HAND	HARDWARE SET No.	HARDWARE KEYSIDE RM. No.	LINTEL MARK	REMARKS
100A	16'-Ø"	12'-Ø"	1⅜"	A	-	-	INSULATED STEEL	16'-Ø"	12'-Ø"	-	ALUM. CLAD WOOD	H1-1 SIM	J-1 SIM	-	-	-	1	-	NONE	OVERHEAD DOOR
101A	3'-Ø"	6'-8"	1¾"	B	-	-	HOLLOW METAL	3'-4"	6'-10"	A	HOLLOW METAL	H-2	J-2	-	90M	LHR	2	-	NONE	-
101B	3'-Ø"	6'-8"	1¾"	C	-	-	INSULATED HOLLOW METAL	3'-4"	6'-10"	A	INSULATED HOLLOW METAL	H-3	J-3	S-1	-	LHR	3	OUTSIDE	NONE	-
101C	3'-Ø"	6'-8"	1¾"	C	-	-	INSULATED HOLLOW METAL	3'-4"	6'-10"	A	INSULATED HOLLOW METAL	H-3	J-3	S-1	-	RHR	3	OUTSIDE	NONE	-
101D	14'-Ø"	14'-Ø"	1⅜"	A	-	-	INSULATED STEEL	14'-Ø"	14'-Ø"	-	ALUM. CLAD WOOD	H-1	J-1	-	-	-	1	-	NONE	OVERHEAD DOOR
101E	14'-Ø"	14'-Ø"	1⅜"	A	-	-	INSULATED STEEL	14'-Ø"	14'-Ø"	-	ALUM. CLAD WOOD	H-1	J-1	-	-	-	1	-	NONE	OVERHEAD DOOR
101F	14'-Ø"	14'-Ø"	1⅜"	A	-	-	INSULATED STEEL	14'-Ø"	14'-Ø"	-	ALUM. CLAD WOOD	H-1	J-1	-	-	-	1	-	NONE	OVERHEAD DOOR
101G	14'-Ø"	14'-Ø"	1⅜"	A	-	-	INSULATED STEEL	14'-Ø"	14'-Ø"	-	ALUM. CLAD WOOD	H-1	J-1	-	-	-	1	-	NONE	OVERHEAD DOOR
101H	16'-Ø"	14'-Ø"	1⅜"	A	-	-	INSULATED STEEL	16'-Ø"	14'-Ø"	-	ALUM. CLAD WOOD	H-1	J-1	-	-	-	1	-	NONE	ALTERNATE G-1 OVERHEAD DOOR

S1 / A3 SILL DETAIL
SCALE: 3"=1'-Ø"

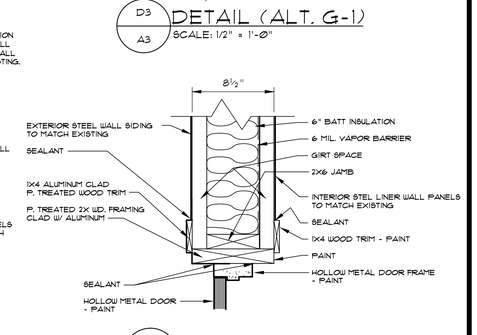
J1 / A3 JAMB DETAIL
SCALE: 1-1/2"=1'-Ø"



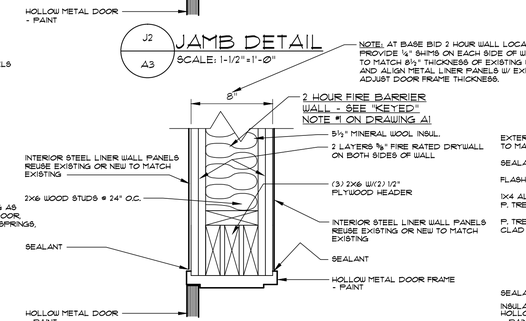
H1 / A3 HEAD DETAIL
SCALE: 1-1/2"=1'-Ø"



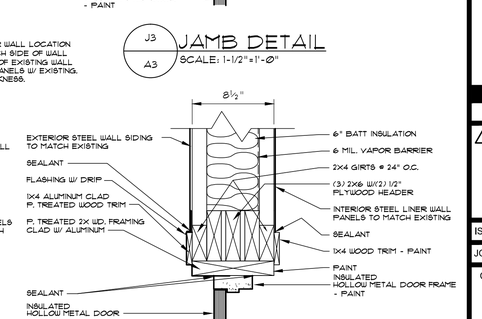
J2 / A3 JAMB DETAIL
SCALE: 1-1/2"=1'-Ø"



J3 / A3 JAMB DETAIL
SCALE: 1-1/2"=1'-Ø"



H2 / A3 HEAD DETAIL
SCALE: 1-1/2"=1'-Ø"



H3 / A3 HEAD DETAIL
SCALE: 1-1/2"=1'-Ø"

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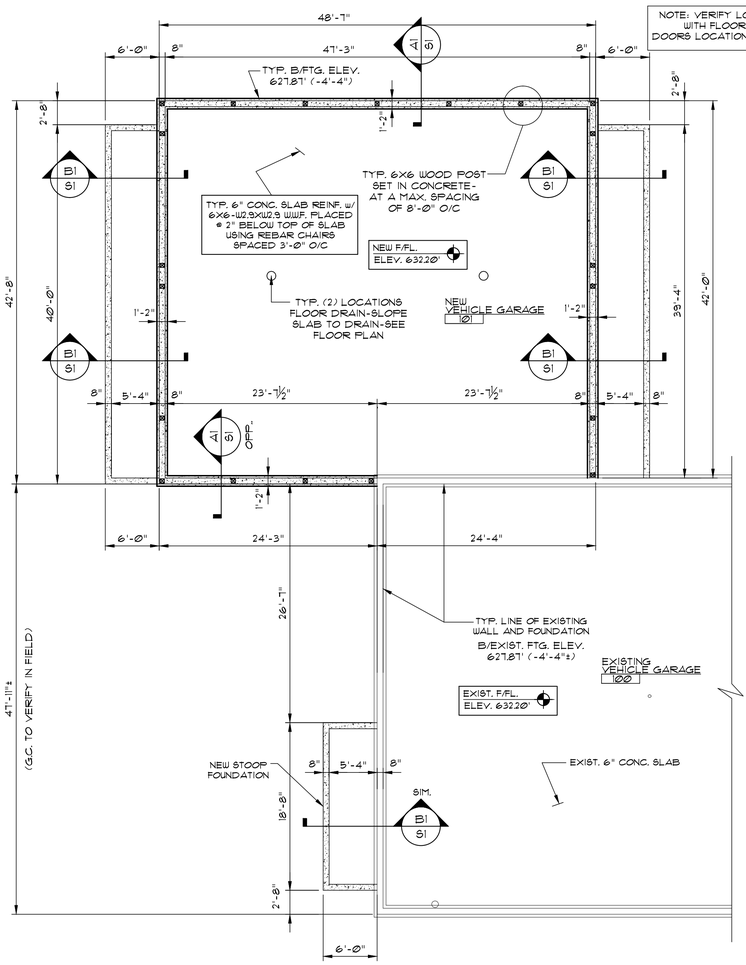
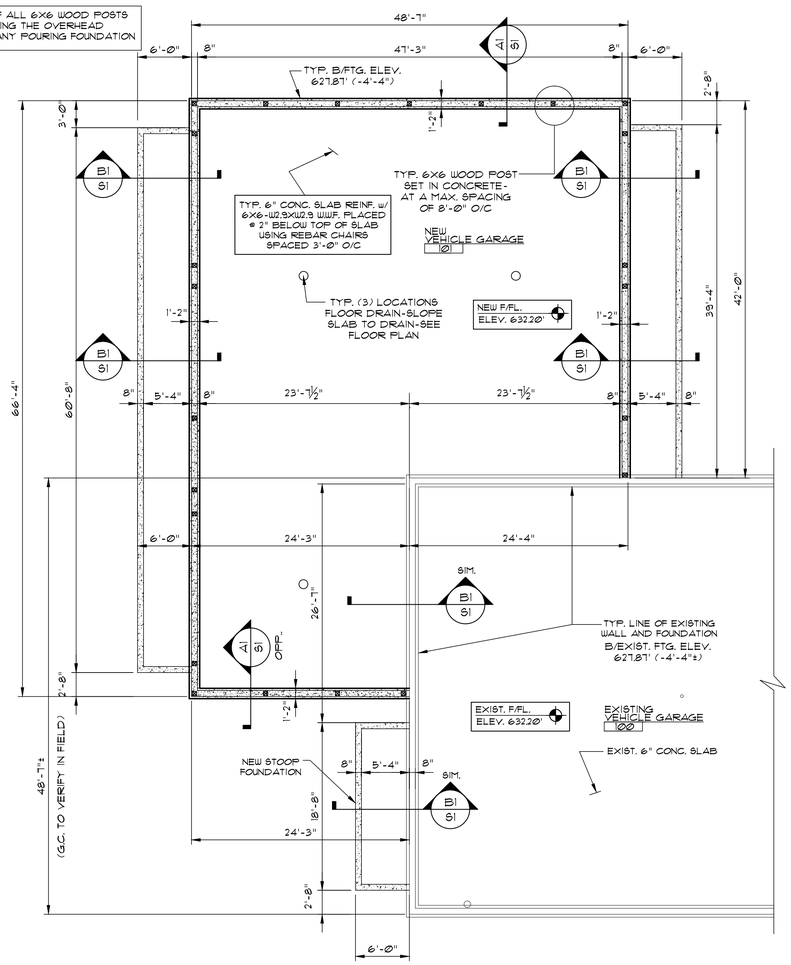
CONSTRUCTION DOCUMENTS

A3



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



BASE BID
w/ALTERNATE G-1
FOUNDATION PLAN
SCALE: 1/8"=1'-0"

NORTH

GENERAL STRUCTURAL NOTES

1) FOUNDATIONS ARE BASED ON A SAFE CARRYING CAPACITY OF 2000 PSF.
2) DESIGN LIVE LOADS: ROOF 25 PSF

3) (OBC 2011) SNOW LOAD DESIGN DATA:
(A) Pg=20 PSF (GROUND SNOW LOAD)
(B) C_e= 0.9 (SNOW EXPOSURE FACTOR)
(C) C_t= 1.0 (SNOW THERMAL FACTOR)
(D) I_s= 1.0 (SNOW IMPORTANCE FACTOR)
SNOW DRIFTS INCLUDED IN DESIGN

4) (OBC 2011) WIND LOAD DESIGN DATA:
(A) WIND SPEED - 90 MPH
(B) EXPOSURE CATEGORY "C"
(C) I_w= 1.0 (WIND IMPORTANCE FACTOR)
(D) GC_{pi}= 0.55 (INTERNAL PRESSURE COEFFICIENT)
(E) WALL PRESSURE LOAD = 15.73 PSF
(G) ROOF COMPONENTS & CLADDING = -50.59 PSF

5) (OBC-2011) SEISMIC DESIGN DATA:
(A) SEISMIC IMPORTANCE FACTOR, I = 1.0 -BUILDING RISK CATEGORY II
(B) MAPPED SPECTRAL RESPONSE ACCELERATIONS:
S_S = 0.20 g S_1 = 0.054 g
(C) SITE CLASS "D".
(D) SPECTRAL RESPONSE COEFFICIENTS:
S_{DS} = 0.128 g S_{D1} = 0.087 g
(E) SEISMIC DESIGN CATEGORY "B"
(F) BASIC SEISMIC-FORCE RESISTING SYSTEM:
-TIMBER FRAMES
(G) SEISMIC RESPONSE COEFFICIENT, C_s=0.087
(H) RESPONSE MODIFICATION FACTOR, R=1.5
(I) ANALYSIS PROCEDURE:
-EQUIVALENT LATERAL FORCE PROCEDURE

6) THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER IT IS FULLY COMPLETED. IT IS THE GENERAL CONTRACTOR RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION.

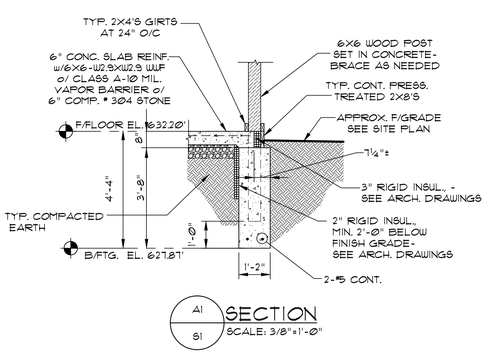
CONCRETE NOTES

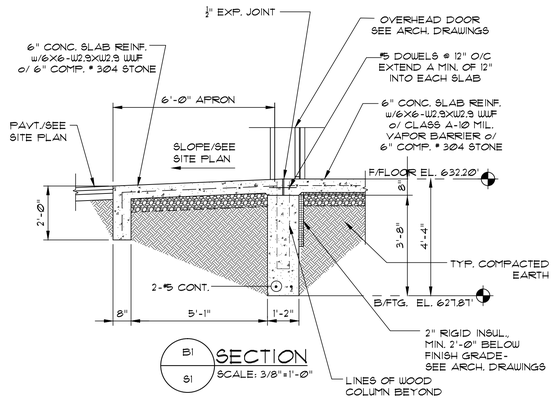
1) CONCRETE SHALL TEST 4000 PSI AT AGE 28 DAYS FOR SLAB AND 3000 PSI FOR FOOTINGS.
2) REINFORCING BARS, UNLESS OTHERWISE SPECIFIED, SHALL BE BILLET BARS MEETING ASTM A615 GRADE 60.
3) LAP ALL BARS SPLICES 24 BAR DIAMETERS (UNLESS OTHERWISE CALLED FOR) BUT NOT LESS THAN 12".
4) MINIMUM CONCRETE COVERS FOR REINFORCING BARS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
CONCRETE DEPOSITED AGAINST GROUND 3"
5) CONCRETE DESIGN AND REINFORCING IS BASED ON "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-2011)
6) WIRE FABRIC REINFORCING SHALL LAP ONE FULL MESH AT SIDES AND END LAPS AND SHALL BE WIRED TOGETHER AT LAPS.
7) SLABS SHALL HAVE OPENINGS VERIFIED BY MECHANICAL AND ELECTRICAL CONTRACTORS BEFORE PLACING REINFORCING AND CONCRETE.

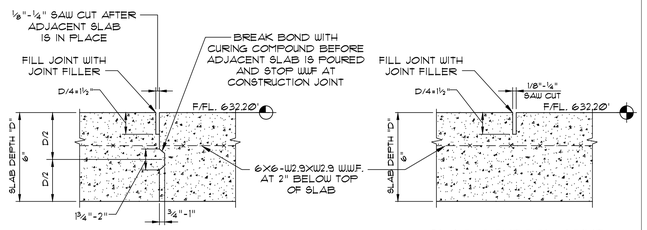
WOOD NOTES:

1) ALL LOADBEARING POSTS, STUDS, DOOR HEADERS, WINDOW HEADERS AND DOUBLE & TRIPLE STUDS SHALL BE #1SPRUCE YELLOW PINE (SYP) OR EQUAL WITH MINIMUM:
BENDING STRESS, Fb = 1650 PSI
SHEAR STRESS, Fv = 90 PSI
COMPRESSION STRESS, Fc = 1750 PSI
FOR LVL: Fb = 2,600 PSI, Fv = 285 PSI, E = 1,900,000 PSI
2) ALL LUMBER IN CONTACT WITH CONCRETE FLOOR SLABS OR CONCRETE FOUNDATION SHALL BE PRESSURE TREATED.
3) PREFABRICATED ROOF WOOD TRUSSES LOADS:
TOP CHORD LIVE LOAD = 25 PSF
TOP CHORD DEAD LOAD = 10 PSF
BOTTOM CHORD DEAD LOAD = 10 PSF
INCLUDE UNBALANCED SNOW LOADS
4) ROOF TRUSSES TO BE SPACED AT A MAXIMUM OF 48" O.C.
5) GENERAL CONTRACTOR TO SUPPLY AND INSTALL ALL TEMPORARY AND PERMANENT LATERAL BRACINGS AS REQUIRED FOR SAFE ERECTION AND PERFORMANCE OF THE ROOF WOOD PREFAB. TRUSSES AS REQUIRED BY THE TRUSS MANUFACTURER.
6) SUBMIT COMPLETE SHOP DRAWINGS FOR ALL WOOD PREFAB TRUSSES SHOWING MEMBER SIZES, SPECIES, GRADE, MOISTURE CONTENT, SPAN, , DIMENSIONS, CHORD PITCH, BRACING REQUIREMENTS AND LOADINGS. SHOP DRAWINGS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OHIO.
7) FINAL LAYOUT AND TRUSS CONFIGURATION IS PER THE PREFABRICATED WOOD TRUSS MANUFACTURER.

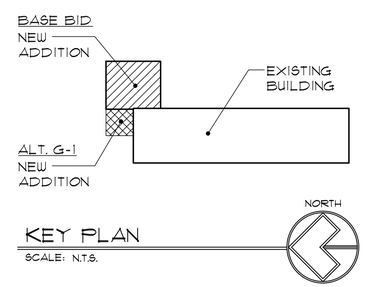
NOTE: GENERAL CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE SEQUENCE OF DEMOLITION, ERECTION PROCEDURES AND BRACING (SHORING) OF WALLS, ROOF AND STRUCTURAL MEMBERS (BEAMS, COLUMNS, TRUSSES, ETC.) TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION.







CUT SLAB AND PROVIDE CONTROL JOINTS AND/OR CONSTRUCTION JOINTS AT SPACING NOT TO EXCEED 15'-0"X15'-0"



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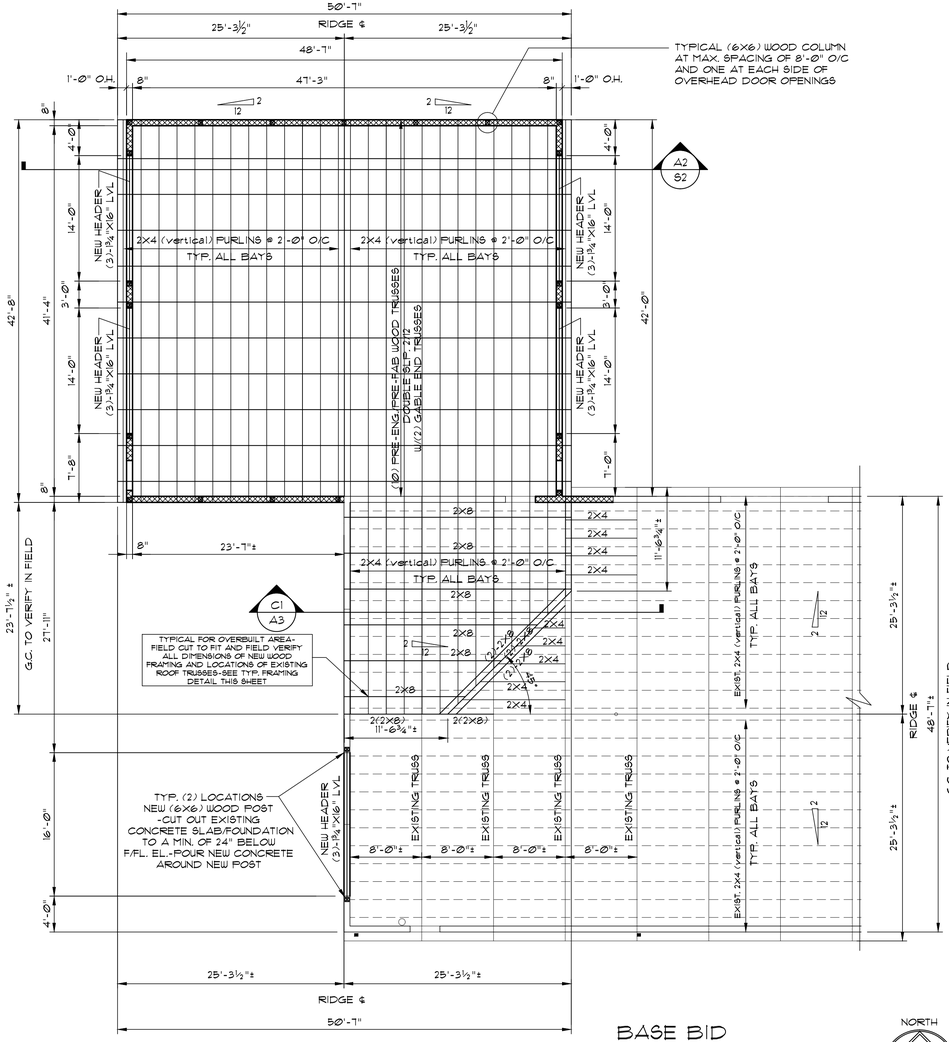
STATE OF OHIO
KENT D. BUEHRER
54249
REGISTERED
PROFESSIONAL ENGINEER

ADDITION TO VEHICLE BUILDING 'B'
FOR THE
LUCAS COUNTY
SANITARY ENGINEER'S OFFICE
HOLLAND, OHIO

BUEHRERGROUP
architecture & engineering, inc.
314 CONANT ST., MAUMEE, OH 43537 | P 419.893.9021 F 419.893.9027 | BUEHRERGROUP.COM

REVISION SCHEDULE
1 -
ISSUE DATE: 04/11/14
JOB NUMBER: 140208
CONSTRUCTION DOCUMENTS

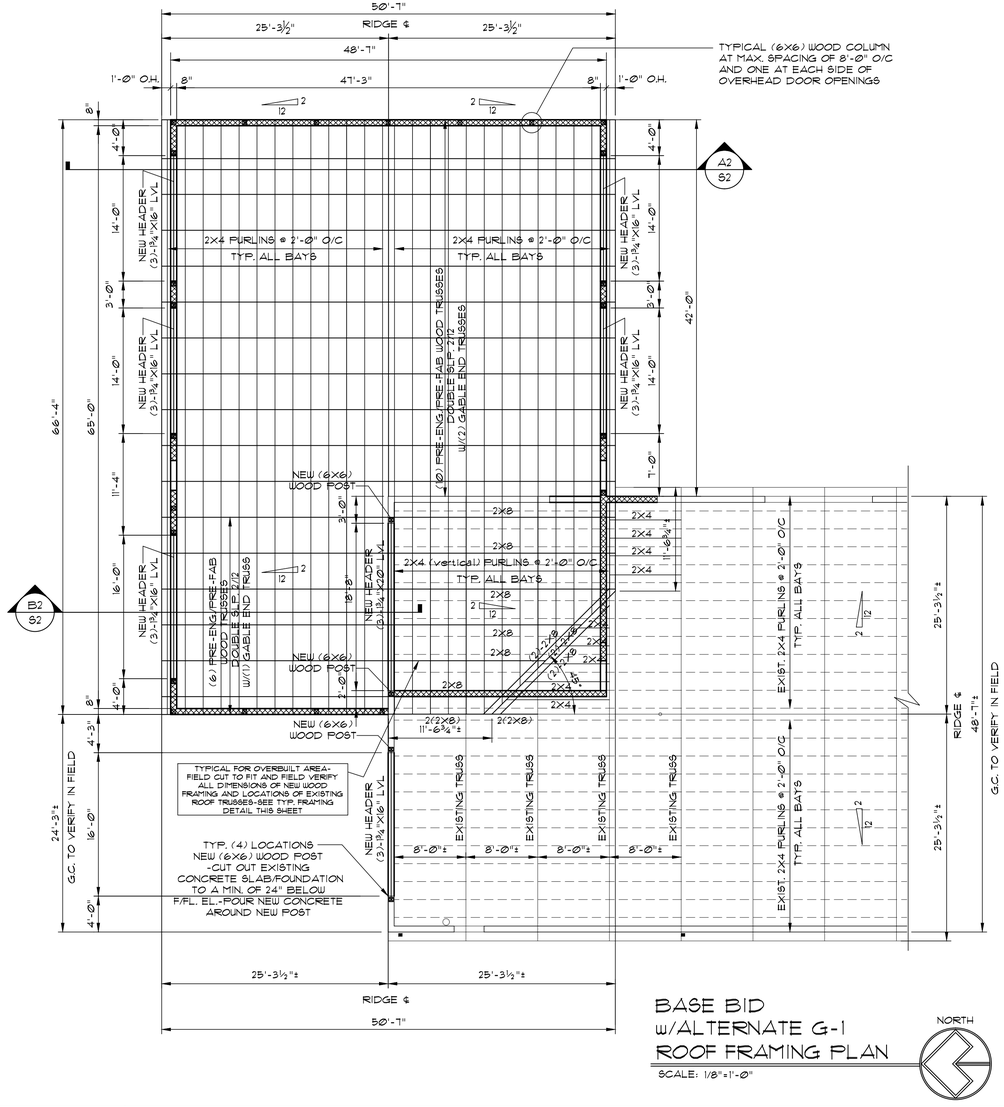
S1



BASE BID
ROOF FRAMING PLAN

SCALE: 1/8"=1'-Ø"

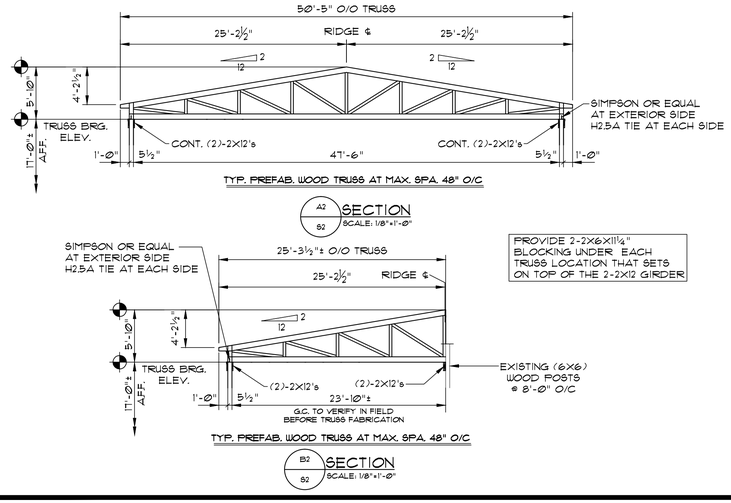
NORTH

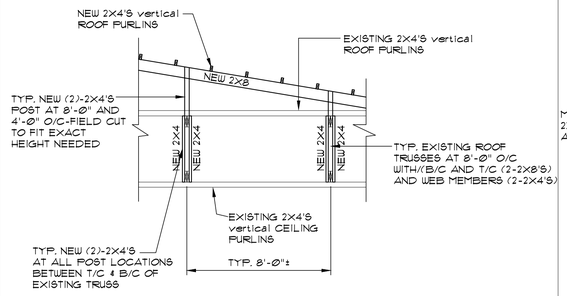


BASE BID
w/ALTERNATE G-1
ROOF FRAMING PLAN

SCALE: 1/8"=1'-Ø"

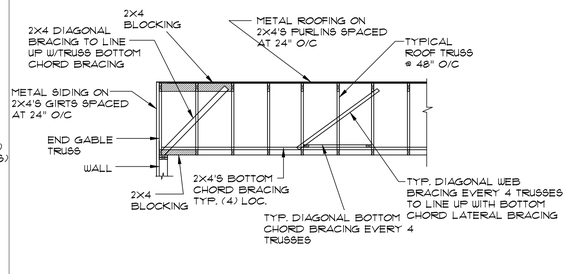
NORTH





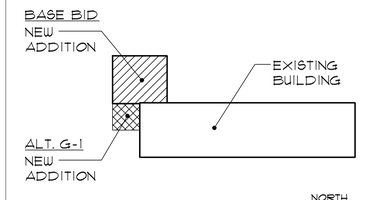
TYP. OVERBUILT AREA FRAMING DETAIL

SCALE: N.T.S.



TYP. GABLE END BRACE

SCALE: N.T.S.



NORTH

KEY PLAN

SCALE: N.T.S.

STATE OF OHIO
KENT D. BUEHRER
11087
REGISTERED ARCHITECT
KENT D. BUEHRER, LICENSE #11087
EXPIRATION DATE 12/31/15

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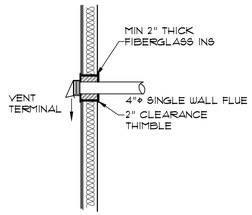
S2

RADIANT HEATERS			ROBERTS GORDON VANTAGE		
MARK NO.	MODEL	MBH	REFLECTOR	ELECT.	ACCESSORIES
RH-1	VANTAGE II-125	125	POLISHED ALUMINUM	115-1Ø	AIR INLET/OUTLET 24 V T-STAT
RH-2	VANTAGE II-4Ø	4Ø	POLISHED ALUMINUM	115-1Ø	AIR INLET/OUTLET 24 V T-STAT

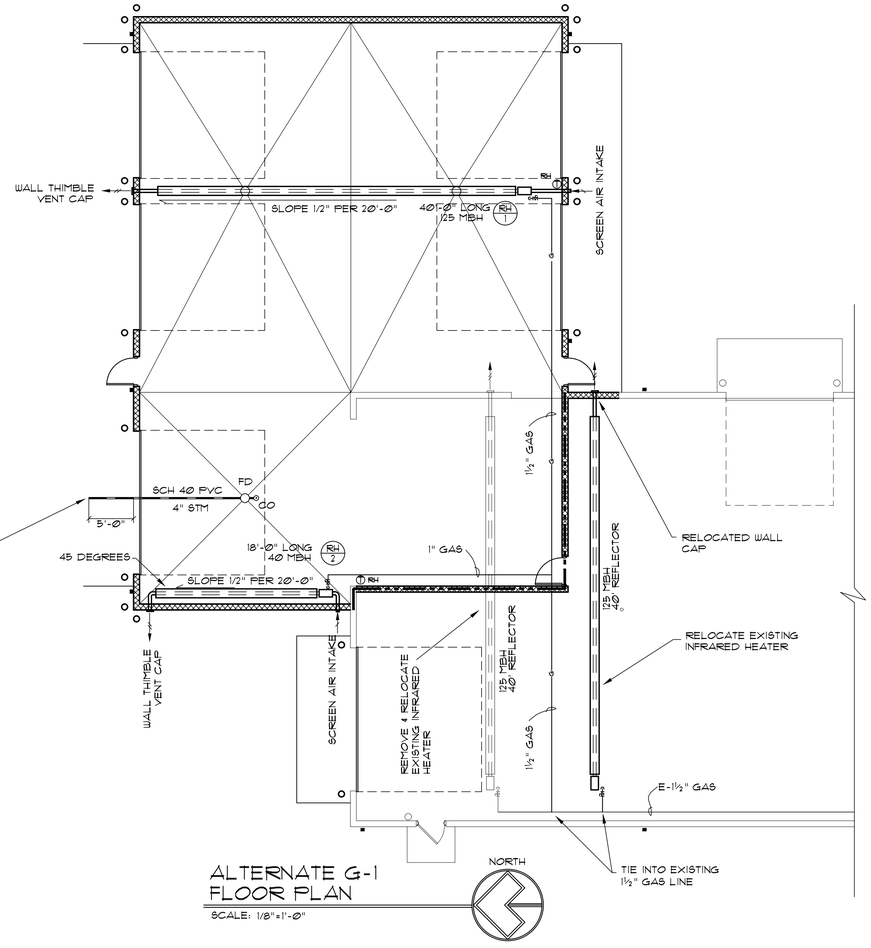
- HANG ON CHAIN AS RECOMMENDED BY MANUFACTURER
- EQUAL BY RE-VERBER-RAY, REZNOR OR SUPERIOR RADIANT PRODUCTS

PLUMBING FIXTURE SCHUDULE				CONNECTION			
MARK	ITEM	MANUFACTURE	MODEL	WASTE	VENT	CW	HW
FD	FLOOR DRAIN	ZURN	Z-5Ø4 12" HEAVY DUTY DRAIN	4"	–	–	–



RH FLUE TERMINATION

NTS

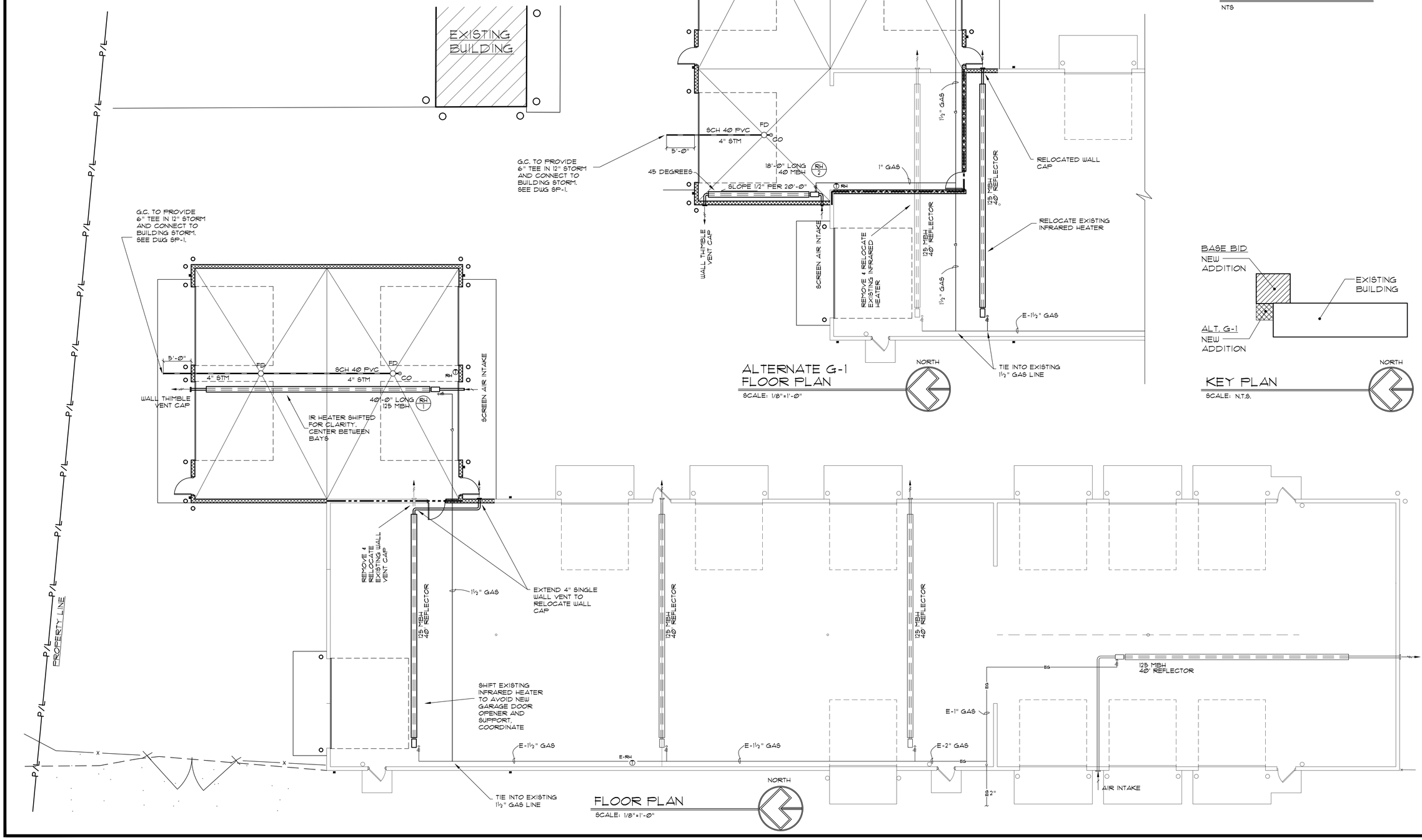


ALTERNATE G-1
FLOOR PLAN

SCALE: 1/8"=1'-Ø"

KEY PLAN

SCALE: N.T.S.



FLOOR PLAN

SCALE: 1/8"=1'-Ø"

ADDITION TO VEHICLE BUILDING 'B'
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STATE OF OHIO
HUBER H. BUEHRER
21224
REGISTERED PROFESSIONAL ENGINEER

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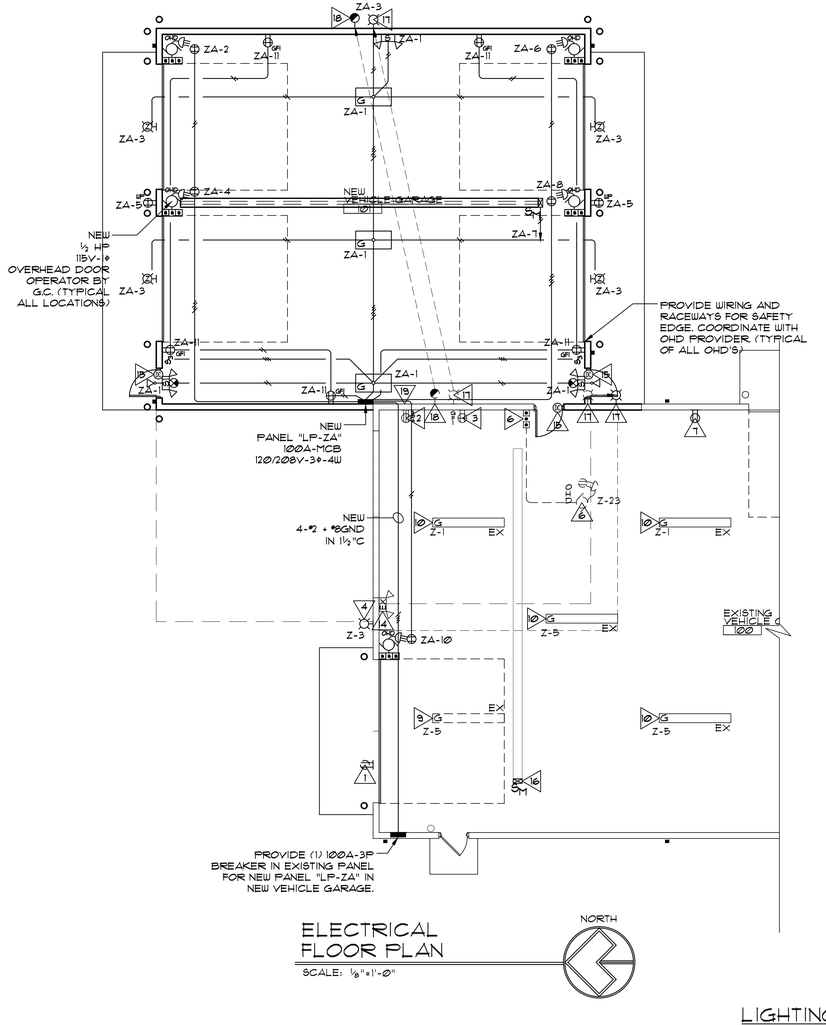
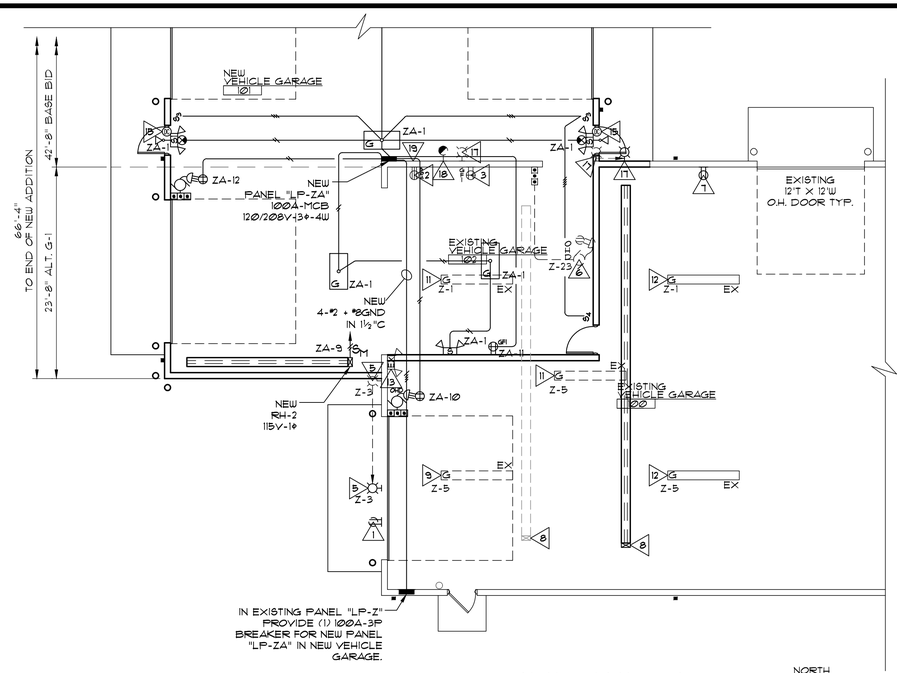
M1



ELECTRICAL FLOOR PLAN

SCALE: ⅛"=1'-Ø"

NORTH



ALTERNATE G-1 FLOOR PLAN

SCALE: ⅛"=1'-Ø"

NORTH

NEW PANELBOARD SCHEDULE

PANEL: LP-ZA MOUNTING: SURFACE
MAINS: 100 AMP – MCB
SERVICE: 120/208 VOLTS 3 PHASE 4 WIRE S NEUTRAL

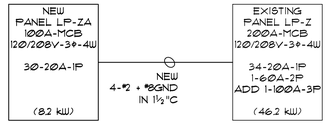
LOAD	WATTS	AMP	ABC	AMP	WATTS	LOAD
LIGHTING	800	20	1 2	20	900	OHD #1
OUTSIDE LGHT	400	20	3 4	20	900	OHD #2
WP OUTLETS	400	20	5 6	20	900	OHD #3
RH-1	600	20	7 8	20	900	OHD #4
ALT. RH-2	600	20	9 10	20	900	OHD #5
OUTLETS	1000	20	11 12	20	900	ALT. OHD #6
SPARE	–	20	13 14	20	–	SPARE
SPARE	–	20	15 16	20	–	SPARE
SPARE	–	20	17 18	20	–	SPARE
SPARE	–	20	19 20	20	–	SPARE
SPARE	–	20	21 22	20	–	SPARE
SPARE	–	20	23 24	20	–	SPARE
SPARE	–	20	25 26	20	–	SPARE
SPARE	–	20	27 28	20	–	SPARE
SPARE	–	20	29 30	20	–	SPARE
	2,800		WATTS		5,400	
			TOTAL		8.2 kW	

EXISTING PANELBOARD SCHEDULE

PANEL: LP-Z MOUNTING: FLUSH
MAINS: 200 AMP – MAIN CIRCUIT BREAKER
SERVICE: 120/208 VOLTS 3 PHASE 4 WIRE S NEUTRAL

LOAD	WATTS	AMP	ABC	AMP	WATTS	LOAD
LIGHTS	1000	20	1 2	60		WELDER
LIGHTS	1000	20	3 4	3P	10000	
LIGHTS	1000	20	5 6	20	200	EXT. OUTLET
OHD	1000	20	7 8	20	200	
OHD	1000	20	9 10	20	200	EXT. OUTLET
OHD	1000	20	11 12	20	200	
OHD	1000	20	13 14	20	800	LIGHTS
EAST OUTLETS	1000	20	15 16	20	500	LIGHTS
WEST OUTLETS	800	20	17 18	20	100	EXIT SIGNS
HEAT CONTROL	1000	20	19 20	20	800	EXT. LIGHTS
HEAT CONTROL	500	20	21 22	20	1000	EXT. LIGHTS
OHD	1000	20	23 24	20	1000	OHD
OHD	1000	20	25 26	20	1000	OHD
OHD	1000	20	27 28	20	1000	OHD
OHD	1000	20	29 30	20	1000	OHD
OUTLETS	600	20	31 32	20	1000	OHD
OUTLETS	600	20	33 34	20	1000	OHD
OUTLETS	600	20	35 36	20	1900	CHAIN HOIST
SPARE		–	37 38	100	8.2k	NEW
SPARE		–	39 40			PANEL
SPARE		–	41 42	3P		LP-ZA
	16,100		WATTS		30,100	
			TOTAL		46.2 kW	

PARTIAL SINGLE LINE DIAGRAM



LIGHTING LEGEND

- FLUORESCENT FIXTURE - 6-54W-48"-T5-IS-120V - 2' x 4' SURFACE MOUNT ALUMINUM LIGHT FIXTURE WITH BAKED ENAMEL REFLECTORS. EQUIP WITH ELECTRONIC BALLAST.
  ALUMALIGHT ONLY APPROVED MANUFACTURER
- EMERGENCY EGRESS LIGHTING UNIT WITH DUAL HEADS IN WHITE HOUSING - 120V SURFACE MOUNTED WITH A 90 MINUTE BATTERY BACKUP.
  LITHONIA ELM2
  CHLORIDE V76
  SURE-LITES CC3WH
- COMBINATION LED EXIT SIGN AND EMERGENCY EGRESS LIGHTING UNIT WITH DUAL HEADS - 120V SURFACE MOUNTED WHITE PLASTIC HOUSING WITH A 90 MINUTE BATTERY BACKUP AND THIRD WEATHERPROOF REMOTE HEAD. PROVIDE REMOTE HEAD AT CENTERED ABOVE EXTERIOR DOORS.
  LITHONIA LHQM 6 W R 120 / ELA MR24 KD606
  CHLORIDE VCLRW / VLIRHP
  SURE-LITES APC10 R WH 120/277 DH / 6X54WWH
- LED WALL PACK- 1-58W-LED-120V, WALL MOUNTED LIGHT FIXTURE - 5000K - DARK BRONZE. SEE ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION. EQUIP WITH PHOTOCELL.
  LITHONIA TWR2 LED 1 50K MVOLT DDB / DBE120L5TUL

SECURITY SYSTEMS LEGEND

- (W) CONCEALED DOOR CONTACT FOR SECURITY SYSTEM.

ELECTRICAL LEGEND

- S_3 LOCAL SWITCH - 3 WAY - 20A - 125/277V WITH COVER PLATE. MH=4'-Ø".
  HUBBELL HBL1223x
  P & S PS20AC3-x
  COOPER AH1223x
- S_4 LOCAL SWITCH - 4 WAY - 20A - 125/277V WITH COVER PLATE. MH=4'-Ø".
  HUBBELL HBL1224x
  P & S PS20AC4-x
  COOPER AH1224x
- S_M MANUAL MOTOR STARTER - 120V - 1 POLE WITH OVERLOAD AND PILOT LIGHT. MH = 5'-Ø" , "K" - KEY OPERATED.
  SQUARE D CLASS 2510
  G.E. TYPE CR101
  SIEMENS SMF
- NEW CEILING MOUNTED DUPLEX CONV. OUTLET 20A - 125V 3 WIRE GROUND TYPE WITH COVER PLATE. FOR OVER HEAD DOOR OPERATOR.
  HUBBELL HBL5362x
  P & S 5362-Ax
  COOPER AH5362x
- DUPLEX GFI, WEATHER-RESISTANT, TAMPER-RESISTANT OUTLET - 20A - 125V - 3 WIRE GROUND FAULT INTERRUPTER TYPE, FLUSH VERTICAL MOUNTED IN METAL WEATHER-RESISTANT IN-USE COVER. MH=4'-Ø", UNLESS OTHERWISE NOTED.
  HUBBELL GF53629Gx / WP8E
  P & S 2095TRWRx / CA26WV
  COOPER TWRVGF20 / WUMH-1
- MOTOR BY OTHERS - FUNCTION, VOLTAGE, AND SIZE AS NOTED.
- OVERHEAD GARAGE DOOR CONTROLLER - PROVIDED BY G.C. & WIRED BY E.C.
- RECESSED MOUNTED ELECTRICAL PANEL - 120/208V-3Ø-4W

ELECTRICAL NOTES

1. DISCONNECT AND REMOVE EXISTING WEAHTER-PROOF BOX. REMOVE ALL WIRING AND RACEWAYS NO LONGER REQUIRED. MAINTAIN POWER TO ANY DEVICE NOT SCHEDULED FOR DEMOLITION.
2. EXISTING 50A OUTLET TO REMAIN. UNDER BASE BID - COORDINATE EFFORTS WITH G.C. FOR NEW FIRE RATING ON WALL.
3. EXISTING GFI OUTLET TO REMAIN. UNDER BASE BID - COORDINATE EFFORTS WITH G.C. FOR NEW FIRE RATING ON WALL.
4. EXISTING EXTERIOR WALL PACK IS TO REMAIN.
5. UNDER ALTERNATE ¶ - DISCONNECT POWER TO EXISTING EXTERIOR WALL PACK AND RELOCATE TO NEW LOCATION AS SHOWN. MODIFY ALL WIRING AND RACEWAYS AS REQUIRED.
6. UNPLUG OVER HEAD DOOR OPERATOR FROM EXISTING OUTLET AND REMOVE. REMOVE LOW-VOLTAGE WIRING GOING TO DOOR OPERATOR AND REMOVE DOOR OPERATOR.
7. EXISTING OUTLET TO REMAIN.
8. UNDER ALTERNATE ¶ - DISCONNECT POWER TO EXISTING INFRARED RADIANT HEATER AND EXTEND TO AND RECONNECT AT NEW LOCATION AS SHOWN.
9. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. REMOVE ALL WIRING AND RACEWAYS NO LONGER REQUIRED. MAINTAIN POWER TO ANY DEVICE NOT SCHEDULED FOR DEMOLITION.
10. EXISTING LIGHT FIXTURE TO REMAIN.
11. UNDER ALTERNATE ¶ - DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. REMOVE ALL WIRING AND RACEWAYS NO LONGER REQUIRED. MAINTAIN POWER TO ANY DEVICE NOT SCHEDULED FOR DEMOLITION.
12. UNDER ALTERNATE ¶ - EXISTING LIGHT FIXTURE TO REMAIN.
13. UNDER ALTERNATE ¶ - DISCONNECT AND REMOVE EXISTING EMERGENCY EGRESS LIGHTING UNIT. REMOVE ALL WIRING AND RACEWAYS NO LONGER REQUIRED. MAINTAIN POWER TO ANY DEVICE NOT SCHEDULED FOR DEMOLITION.
14. EXISTING EMERGENCY EGRESS LIGHTING UNIT TO REMAIN.
15. CONNECT NEW DOOR CONTACTS TO EXISTING SECURITY SYSTEM. RE-PROGRAM AS REQUIRED.
16. AS REQUIRED, DISCONNECT POWER TO EXISTING INFRARED HEATER AND RECONNECT TO NEW LOCATION.
17. DISCONNECT POWER TO EXISTING EXTERIOR WALL PACK AND RELOCATE TO NEW LOCATION AS SHOWN ON "ELECTRICAL FLOOR PLAN". MODIFY ALL WIRING AND RACEWAYS AS REQUIRED.
18. DISCONNECT POWER TO EXISTING PHOTOCELL AND RELOCATE TO NEW LOCATION AS SHOWN ON "ELECTRICAL FLOOR PLAN". MODIFY ALL WIRING AND RACEWAYS AS REQUIRED.
19. MAINTAIN EXISTING CONDUIT AND UNDERGROUND FEED.

STATE OF OHIO
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11087
REGISTERED ARCHITECT

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