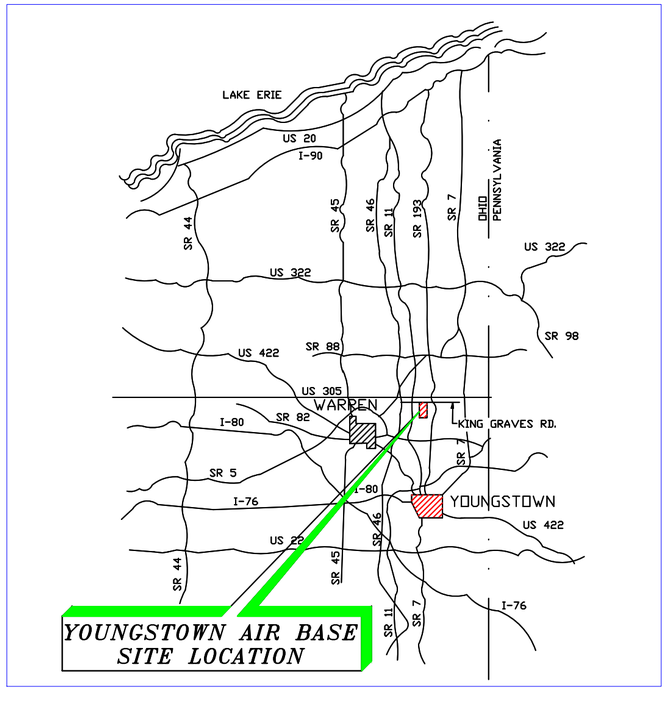
AIR FORCE RESERVE COMMAND HEADQUARTERS
910th AIRLIFT WING
SUSTAIN-REPAIR BUILDING 301, Aircraft Ground Equipment
PROJECT ZQEL 22-0006

YOUNGSTOWN AIR RESERVE STATION
YOUNGSTOWN WARREN REGIONAL AIRPORT, ARS
3976 KING GRAVES ROAD
VIENNA, OHIO 44473

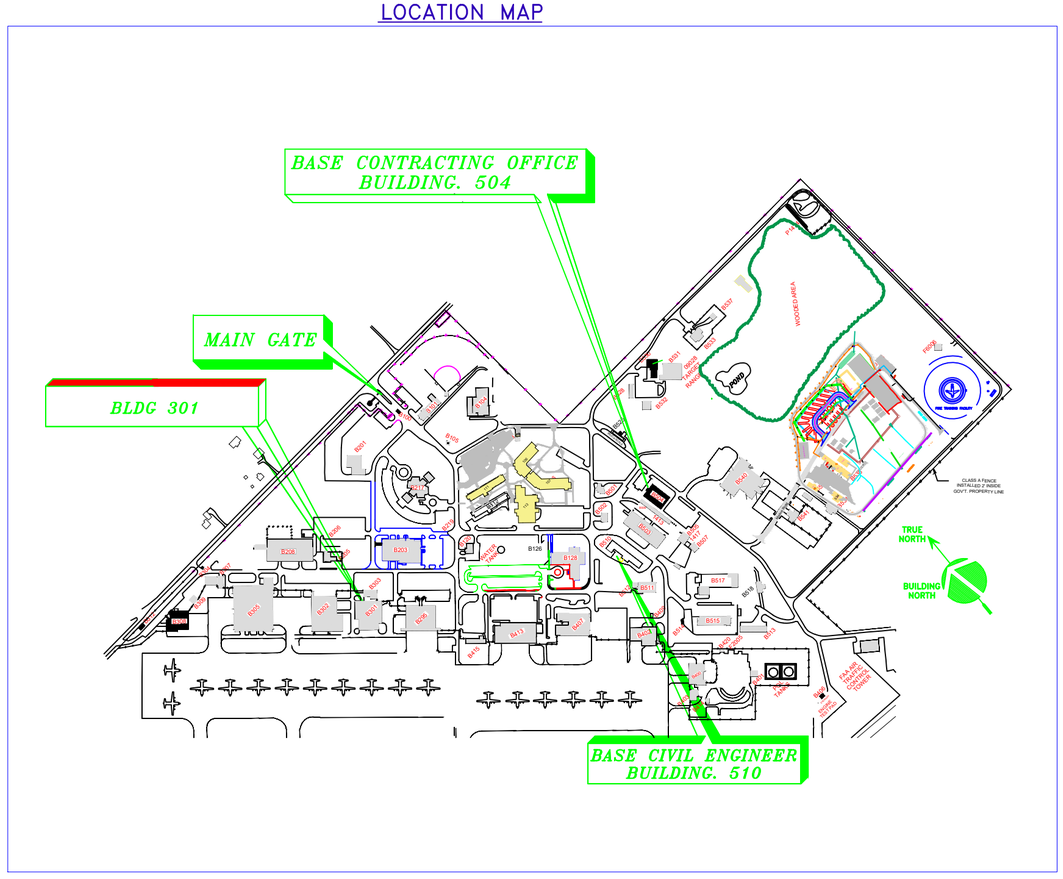
GOVERNMENT SIGNATURE BLOCK	
REVIEWED BY:	
PROJECT ENGINEER	DATE
CHIEF, DESIGN BRANCH	DATE
APPROVED BY:	
CHIEF, ENGINEERING DIVISION	DATE

REVIEW SIGNATURE BLOCK	
ANTI–TERRORISM OFFICER – ANDREW J. MATHEWS	DATE
COMMUNICATIONS SYSTEMS – EDWARD S. BURNS	DATE
FIRE PROTECTION – MATTHEW E. WILLIAMS	DATE
MAINTENANCE–FLIGHTLINE – SMSGT JEROME FABIAN	DATE
SAFETY – LT COL FRANK A. GALATI	DATE
SECURITY POLICE – TSGT ZACHARY D. CONN	DATE
AIRCRAFT GROUND EQUIPMENT – SMSGT JOSHUA A. SLUSSER	DATE
	DATE
	DATE

VICINITY MAP



LOCATION MAP



DRAWING INDEX

SHEET	DWG NO:	SHEET TITLE
1 of 9	G1	TITLE SHEET
2 of 9	G2	SCOPE OF WORK LAYOUT PLAN
3 of 9	G3	CONSTRUCTION GENERAL NOTES
4 of 9	A1	ROOM 111, 112 & 113 DEMOLITION PLAN
5 of 9	A2	ROOM 111, 112 & 113 FLOOR PLAN
6 of 9	A3	ROOM 111, 112 & 113 REFLECTIVE CEILING PLAN
7 of 9	A4	ROOM 101 & 102 FLOOR PLAN
8 of 9	A5	ROOM 101 INTERIOR VIEWS
9 of 9	A6	ROOM 102 INTERIOR VIEWS

GENERAL STRUCTURAL NOTES

BUILDING CODE

- 2023 INTERNATIONAL BUILDING CODE (IBC-2023)
- ASCE STANDARDS (ASCE/SEI 7-10), MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

CONSTRUCTION AND SAFETY

1. THE STRUCTURE IS DESIGNED TO BE STABLE AND SELF SUPPORTING WHEN COMPLETED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION PROCEDURES REQUIRED TO BUILD THE STRUCTURE AND TO ENSURE SAFETY DURING DEMOLITION AND CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, TEMPORARY BRACING, SHORING AND RESHORING REQUIREMENTS, CONSTRUCTION LOADS, UNDER-PINNING, ETC.

2. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE CONTRACTING OFFICER TO MINIMIZE INTERFERENCE WITH OPERATIONS AND TO INSURE THE SAFETY OF ALL PERSONNEL.

3. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.

4. THE CONTRACTOR SHALL 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 SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS/HER OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.

5. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE PREPARATION OF SHOP DRAWINGS. SHOULD ANY DISCREPANCY BE FOUND, THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IMMEDIATELY.

6. QUALITY OF CONSTRUCTION REQUIRED. PERFORMANCE LEVELS OF WORKMANSHIP. MANUFACTURING AND INDUSTRY STANDARDS. STRENGTH AND PHYSICAL REQUIREMENTS OF MATERIALS. CONFORMANCE TO CODES AND REGULATIONS. GUARANTEE REQUIREMENTS AND OTHER PERTINENT INFORMATION ARE CONTAINED IN THE PROJECT MANUAL.

7. IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES, THE BETTER QUALITY AND/OR GREATER QUANTITY, STRENGTH OR SIZE INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED.

8. COORDINATE WITH ALL DRAWINGS FOR PERTINENT INFORMATION RELATED TO STRUCTURAL WORK. ANY CHANGES TO THE STRUCTURAL SYSTEMS SHALL BE REDESIGNED BY A PROFESSIONAL ENGINEER AT NO COST TO THE OWNER OR A/E AND SUBMITTED TO THE A/E FOR REVIEW. SUBMITTAL SHALL BE ACKNOWLEDGED IN WRITING BEFORE BEGINNING CONSTRUCTION.

9. EQUIPMENT FRAMING, LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.

DESIGN LOADS

BUILDING RISK CATEGORY, TABLE 1604.5 – II

1. LIVE LOADS (SECTION 1607):
   ROOF LIVE LOAD 20 PSF

2. SNOW LOAD (INTERNATIONAL BUILDING CODE-2020, SECTION 1609):
   SNOW LOAD, Ps = 20 PSF

3. WIND LOAD (IBC-2012, SECTION 1609):
   i. BASIC WIND SPEED (3 SECOND GUST), 120 MPH, qz = 27.9 PSF
   ii. WIND IMPORTANCE FACTOR, Iw N.A.
   iii. BUILDING RISK CATEGORY = IV
   iv. WIND EXPOSURE CATEGORY = C
   v. Kh =0.89, G = 0.85
   vi. MAX POSITIVE ROOF PRESSURE, P = 26.1 PSF
   vii. MAX NEGATIVE ROOF PRESSURE, P = 39.1 PSF
   viii. INTERNAL PRESSURE COEFFICIENT, Gcpi = +/-0.18 (OPEN BUILDING)

4. EARTHQUAKE DESIGN DATA (SECTION 1613):
   SEISMIC LOADS
   I. RISK CATEGORY = IV
   ix. MAPPED SPECTRAL RESPONSE: Ss = 0.18; S1 = 0.06
   iv. SITE CLASS = D
   v. SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.192; SD1 = 0.093
   vi. SEISMIC DESIGN CATEGORY = C
   vii. BASIC SEISMIC FORCE RESISTING SYSTEM = STEEL ORDINARY MOMENT FRAMES
   viii. SEISMIC RESPONSE COEFFICIENT, Cs = 0.08
   ix. RESPONSE MODIFICATION FACTOR, R = 3.5

   ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE METHOD

5. DEAD LOADS:

i.	ASPHALT SHINGLES	2 PSF	v.	INSULATION 5 PSF
ii.	FELT	1 PSF	iv.	COLLATERAL LOAD 10 PSF
iii.	PLYWOOD SHEATHING	2 PSF		TOTAL DEAD LOAD 30 PSF
iv.	RAFTERS & STUDS	10 PSF		

CONCRETE FOUNDATIONS

1. SPREAD FOUNDATIONS – ASSUMED ALLOWABLE SOIL BEARING 2.0 KSF.

2. N/A

3. NOTIFY THE CONTRACTING OFFICER AS SOON AS POSSIBLE OF ANY UNUSUAL SOIL CONDITIONS OR SOIL CONDITIONS IN VARIANCE WITH TEST BORING, SUCH AS UNEXPECTED SPRING OR SEEPAGE WATER, MATERIAL DIFFERING FROM TEST BORINGS, OR SOIL OF QUESTIONABLE BEARING CAPACITY.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND FINAL CLEARANCE OF ANY REQUIRED NEEDLING, UNDERPINNING, SHORING, OR BRACING OF EXISTING STRUCTURES.

5. STRUCTURAL FILL SHALL BE PLACED IN 8" LIFTS COMPACTED 95% OF MODIFIED OPTIMUM DENSITY.

6. NO BACKFILLING OF FOUNDATION WALLS SHALL BE UNDERTAKEN UNTIL SUITABLE WALL BRACING. TEMPORARY OR PERMENANT, HAS BEEN PROVIDED.

7. DO NOT PLACE FILL ON FROZEN GROUND. ALL SOIL SURROUNDING AND UNDER FOUNDATIONS SHALL BE PROTECTED FROM FREEZING & FROST ACTION DURING THE COURSE OF CONSTRUCTION. SOIL WHICH HAS BEEN ALLOWED TO FREEZE SHALL BE REMOVED.

8. BOTTOM OF EXTERIOR FOUNDATIONS SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE.

9. EXCAVATION THROUGH EXISTING SLAB-ON-GRADE SHALL BE CONDUCTED SO AS NOT TO UNDERMINE REMAINING SLABS. UNDERMINED SLABS SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.

CAST-IN-PLACE CONCRETE

1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF:
   A. AMERICAN CONCRETE INSTITUTE CODES AND STANDARDS, INCLUDING, BUT NOT LIMITED TO, ACI 301 (AS MODIFIED IN THE PROJECT MANUAL), ACI 305.1, ACI 306, ACI 315, ACI 318 AND SP-15.
   B. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE".

2. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
   A. 4000 PSI WITHOUT ENTRAINED AIR FOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE.
   B. 4000 PSI WITH 5% ENTRAINED AIR FOR ALL CONCRETE PERMANENTLY EXPOSED TO THE WEATHER.
   C. 4000 PSI FOR BUILDING FOOTINGS.

3. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60 U.N.O.

4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 DELIVERED IN FLAT SHEETS.

6. ALL REINFORCING DETAILS SHALL CONFORM TO ACI 315-80, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.

8. CONTRACTOR SHALL PROVIDE SPACERS, CHAIRS, BOLSTERS, ETC. NECESSARY TO SUPPORT REINFORCING STEEL. SUPPORT ITEMS WHICH BEAR ON EXPOSED CONCRETE SURFACES SHALL HAVE ENDS WHICH ARE PLASTIC TIPPED OR STAINLESS STEEL. CONCRETE CUBES SHALL BE USED FOR THE SUPPORT OF REINFORCING ON GRADE.

9. CONTRACTOR SHALL REVIEW ALL DRAWINGS FOR SIZE AND LOCATION OF EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, OPENINGS, ETC. REQUIRED BY OTHER TRADES. RECONCILE THEIR EXACT SIZES AND LOCATIONS BEFORE PROCEEDING WITH THE WORK. ALL ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE. SECURE THE APPROVAL OF THE STRUCTURAL ENGINEER PRIOR TO PLACING OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

10. WHERE BAR LENGTHS ARE GIVEN ON THE DRAWINGS, THE LENGTH OF ANY HOOK, IF REQUIRED, IS NOT INCLUDED. USE STANDARD 90 DEGREE BAR HOOK U.N.O.

11. PROVIDE HORIZONTAL CONTROL/CONSTRUCTION JOINTS IN SLABS AND VERTICAL CONTROL/CONSTRUCTION JOINTS IN WALLS AS SHOWN ON THE DRAWINGS. ALL BEAMS, SPANDRELS, AND SLABS SHALL BE CAST MONOLITHICALLY, EXCEPT FOR REQUIRED CONTROL/CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL SUBMIT ALTERNATE AND ADDITIONAL CONSTRUCTION JOINT LOCATIONS AND DETAILS TO THE A/E FOR APPROVAL PRIOR TO CONSTRUCTION. AT LEAST 48 HOURS SHALL ELAPSE BETWEEN CASTING OF ADJOINING UNITS. REINFORCEMENT SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS UNLESS DETAILED OTHERWISE ON THE DRAWINGS. SUBMIT ALL CONSTRUCTION JOINT LOCATIONS WITH REINFORCING STEEL SHOP DRAWINGS.

12. WHERE CONSTRUCTION JOINTS ARE REQUIRED BUT ARE NOT INDICATED ON THE DRAWINGS, THEY SHALL BE LOCATED AT MIDSPAN OF BEAMS, REINFORCING SLABS, AND WALLS, AND SHALL BE SUBJECT TO REVIEW BY THE A/E OR OWNER. UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS, PROVIDE A CONTINUOUS SHEAR KEY IN SLABS AND WALLS, AND A MINIMUM OF TWO CONTINUOUS HORIZONTAL KEYS IN BEAMS AND EACH JOIST. THE MINIMUM KEY SIZE SHALL BE 1-1/2" DEEP BY 1/3 THE DEPTH OR WIDTH OF THE MEMBER.

13. DRYPACK:
   A. DRYPACK SHALL BE 5000 PSI NON-SHRINK GROUT, FIVE STAR OR EQUIVALENT APPROVED.
   B. INSTALL DRYPACK UNDER ALL BEAM BEARING PLATES PRIOR TO FRAMING MEMBER IS INSTALLED.
   C. INSTALL DRYPACK UNDER ALL COLUMN BASE PLATES AFTER COLUMN HAS BEEN PLUMBED, PRIOR TO FLOOR OR ROOF INSULATION.

14. FOOTINGS, WALLS:
   A. DOWELS IN FOOTINGS SHALL MATCH VERTICAL WALL REINFORCING UNLESS SHOWN OTHERWISE.

15. FOOTINGS, ALL CONSTRUCTION JOINTS BELOW GRADE SHALL HAVE WATERSTOPS.

16. THE HARDENED CONCRETE OF HORIZONTAL CONSTRUCTION JOINTS SHALL BE DAMPENED AND THEN THOROUGHLY COVERED WITH A COAT OF CEMENT GROUT OF SIMILAR PROPORTIONS TO THE MORTAR IN THE CONCRETE. THE FRESH CONCRETE SHALL BE PLACED BEFORE THE GROUT HAS ATTAINED ITS INITIAL SET.

17. WELDING OF REINFORCING STEEL IS NOT PERMITTED.

18. COMPLY WITH ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF SPECIAL FINISHES OR TREATMENTS TO EXPOSED CONCRETE.

19. PROVIDE 6 X 6 – W2.9 X W2.9 WELDED WIRE FABRIC AND FIBER REINFORCING IN ALL SLABS-ON-GRADE, UNLESS OTHERWISE NOTED.

20. PLACE WELDED WIRE FABRIC IN SLABS-ON-GRADE 2 INCHES DOWN FROM THE TOP OF SLAB, UNLESS OTHERWISE NOTED.

21. REINFORCING BAR LAP SPLICES AND ANCHORAGE LENGTH SHALL CONFORM TO ACI REQUIREMENTS.

WOOD CONSTRUCTION

1. DIMENSIONAL LUMBER USED FOR ALL FRAMING, EXCEPT TRUSSES, STUDS, SOLE PLATES, AND CAP PLATES SHALL BE SPRUCE PINE FIR NO.2 OR BETTER. (NORTH). AREAS TO RECEIVE TILE OR MARBLE FLOORS MAY NEED TO BE STIFFENED BEYOND MINIMUM CODE REQUIREMENTS TO PREVENT CRACKING – BUILDER AND INSTALLER SHALL DETERMINE SAME. (DOUBLE EVERY OTHER FLOOR JOIST)

2. DIMENSIONAL LUMBER USED FOR WALL STUDS, SOLE PLATES, AND CAP PLATES SHALL BE SPRUCE PINE FIR NO.2 OR BETTER. (NORTH).

3. ALL DIMENSIONAL LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19%.

4. WALL STUDS SHALL BE 2X6'S @ 16" C/C AND SHALL BE ONE PIECE FULL HEIGHT. PROVIDE A MINIMUM OF 2 STUDS AT EACH SIDE OF ALL OPENINGS THROUGH ALL WALLS UNLESS NOTED OTHERWISE. APPLY GLUE TO FULL MATING SURFACE OF STUDS AND NAIL TOGETHER.

5. WHERE THE TERM "G & N" IS NOTED ON THE PLAN SET IT MEANS GLUE AND NAIL. GLUING SHALL CONFORM TO THE INFORMATION STATED BELOW. NAILING SHALL APPLY ENOUGH CLAMPING FORCE TO HOLD THE GLUED MATING SURFACES IN CONTACT UNTIL THE GLUE ATTAINS FULL STRENGTH.

6. WHERE GLUING OF WOOD MEMBERS IS SPECIFIED THE GLUE THAT IS TO BE USED IS "TITEBOND CONSTRUCTION ADHESIVE" AS MANUFACTURED BY FRANKLIN INTERNATIONAL.

7. WHERE GLUING IS SPECIFIED IT SHALL BE COMPLETED AS FOLLOWS:
   7.1. PLACE CONTINUOUS BEAD(S) OF GLUE ON ONE OF THE SURFACES TO BE GLUED.
   7.2. SPREAD GLUE OVER 100% OF THE SURFACE TO BE MATED.
   7.3. NAIL SO THAT SURFACES ARE HELD TIGHTLY TOGETHER UNTIL GLUE ATTAINS FULL STRENGTH.
   7.4. WIPE AWAY ANY EXCESS GLUE WHICH IS EXPELLED IF IT'S APPEARANCE WILL BE UNACCEPTABLE IN THE FINISHED STRUCTURE.

8. THE FOLLOWING FASTENING SCHEDULE OUTLINES THE MINIMUM REQUIREMENTS AND SHALL BE USED IN CONJUNCTION WITH THE COMPLETE FASTENING SCHEDULE IN 1995 CABO R-602.3A (RSN = RING SHANK NAIL CWN = COMMON WIRE NAIL)
   8.1. SUB FLOOR TO JOISTS: FASTEN WITH GLUE AND 1-8D RSN @ 6" C/C.
   8.2. SOLE PLATES TO SUB FLOOR: GLUE AND 1-16D CWN @ 8" C/C.
   8.3. STUDS TO SOLE PLATE: FASTEN WITH 2-16D CWN.
   8.4. STUDS TO CAP PLATES: FASTEN WITH 2-16D CWN.
   8.5. STUD-TO-STUD AND PLATE-TO-PLATE: 2-10D CWN @ 6" C/C.
   8.6. ROOF SHEATHING TO TRUSSES: 8D CWN @ 4" C/C.
   8.7. ROOF TRUSSES TO WALLS: SIMPSON STRONG-TIE ANCHOR H2.5.
   8.8. MULTIPLE 2X LINTELS: G & N WITH 16D CWN'S AS REQUIRED.
   8.9. MULTIPLE LVL BEAMS: FASTEN PER MANUFACTURER RECOMMENDATIONS.
   8.10. ROOF TRUSSES TO LVL: SIMPSON ANCHOR HU210

9. WHERE "LVL" OR "LSL" ARE NOTED ON THE DRAWINGS THE PRODUCTS USED MUST MEET THE FOLLOWING CRITERIA:
   – M.O.E. = 2,000,000 PSI.
   – FB = 2,000 PSI

WOOD TRUSSES

SPECIFICATIONS	– NDS, NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION LATEST EDITION.
EXTENDED ENDS	– TRUSSES SHALL BE FURNISHED WITH EXTEND ENDS WHERE INDICATED ON THE DRAWINGS.
BRIDGING, CAMBER & WELDING	– PER NDS
UPLIFT	– WITHIN 5 FT. OF BUILDING EDGE, NET UPLIFT DESIGN FOR JOIST – 15 PSF ALL OTHERS, NET UPLIFT DESIGN FOR JOIST – 10 PSF
SPECIAL JOIST	– JOISTS INDICATED ON THE ROOF FRAMING PLAN AS SPECIAL JOISTS SHALL BE DESIGNED FOR THE LOADS SHOWN ON THE JOIST LOADING DIAGRAMS.
* ROOF SHEATHING *	
SPECIFICATIONS	– NDS, NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION LATEST EDITION.
THICKNESS	– 3/4" PLYWOOD ROOF SHEATHINGS (MIN.)
FASTENERS	– SIDE SEAM ATTACHMENTS – 3 – #10 SCREWS/SPAN.

STRUCTURAL STEEL CONSTRUCTION

1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS – LATEST EDITION.

2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS D1.1-88.

3. STRUCTURAL STEEL:
   A. ROLLED STEEL SHAPES: ASTM A992 GRADE 50.
   B. STEEL PLATES, BARS, AND RODS AND ROLLED STEEL ANGLES AND CHANNELS: ASTM A36.
   C. STEEL TUBING: ASTM A500, GRADE B.
   D. STEEL PIPE: ASTM A53, TYPE E OR S, GRADE B.
   E. ANCHOR BOLTS: ASTM A307.

4. BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A-325 OR A-490 BOLTS – ALLOWABLE STRESS DESIGN" AS APPROVED BY THE COUNCIL ON RIVETED AND BOLTED JOINTS. USE BEARING-TYPE BOLTS WITH THREADS ALLOWED ACROSS THE SHEAR PLANE.

5. WELDING ELECTRODES SHALL BE E-70 OR BETTER. FOR WELDING SYMBOLS WITH NO LENGTH DIMENSION GIVEN, THE WELDING SHALL BE CONTINUOUS BETWEEN ABRUPT CHANGES IN DIRECTION. WELDS NOT OTHERWISE NOTED SHALL BE 1/4" IN SIZE.

6. IN GENERAL, IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT ALL SHOP CONNECTIONS BE WELDED AND ALL FIELD CONNECTIONS BE BOLTED EXCEPT WHERE NOTED OTHERWISE.
   A. NON-COMPOSITE BEAM CONNECTIONS SHALL BE DESIGNED TO DEVELOP 55% OF THE TOTAL LOAD CAPACITY DERIVED FROM THE ALLOWABLE UNIFORM LOAD TABLES FOR Fy=50 KSI. IN PART 2 OF THE NINTH EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION", UNLESS THE REACTION 'R' IS SHOWN ON THE DRAWINGS.
   B. COMPOSITE BEAM CONNECTIONS SHALL BE DESIGNED TO DEVELOP THE REACTION 'R' SHOWN ON THE DRAWINGS.
   C. MOMENT CONNECTIONS INDICATED ON THE DRAWINGS SHALL BE DESIGNED FOR THE MOMENTS NOTED. IF NO DESIGN MOMENT IS INDICATED, THEN THE FULL CAPACITY OF THE SECTION MUST BE DEVELOPED.

7. VERIFY THE EXACT SIZE AND LOCATION OF ALL OPENINGS PRIOR TO FABRICATION OF STEEL FRAMING MEMBERS.

8. PROVIDE BEARING PLATES UNDER STEEL BEAMS OF ADEQUATE SIZE TO KEEP MASONRY BEARING PRESSURE UNDER 250 PSI. STEEL BEAMS AND GIRDERS SHALL BEAR A MINIMUM OF 8" ON MASONRY, UNLESS OTHERWISE NOTED.

9. PROVIDE A NON-METALLIC, NON-SHRINK GROUT UNDER ALL COLUMN BASE PLATES AND BEAM BEARINGS.

10. EMBEDMENT LENGTH OF HILTI EXPANSION BOLTS, OR APPROVED SUBSTITUTION, INTO SOLID MASONRY OR CONCRETE SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
   1/2" DIAMETER BOLTS – 3-1/2" EMBEDMENT
   3/4" DIAMETER BOLTS – 5" EMBEDMENT

11. TYPICAL BEAM SHEAR CONNECTIONS NOT DETAILED ON THE DRAWINGS SHALL BE DETAILED WITH STANDARD DOUBLE ANGLE TYPE CONNECTIONS, USING A325 BOLTS.

INSPECTIONS

INSPECTIONS AND TESTING SERVICES SHALL BE PERFORMED BY BASE ENGINEERING, IN CONFORMANCE WITH PROJECT MANUAL AND OHIO BASIC BUILDING CODE, NEC, & NPC. FOOTER CONCRETE AND SIDEWALK CONCRETE SHALL BE TESTED AND PAID FOR BY THE CONTRACTOR AS PART OF HIS BASE BID:

INSPECTIONS AND TESTING SHALL BE PERFORMED FOR; BUT NOT LIMITED TO:

A. FIELD DENSITY TESTING OF SOILS.
B. SOILS GRADATIONS AND FILL PLACEMENT.
C. CAST-IN-PLACE CONCRETE.
D. MASONRY.
E. STRUCTURAL STEEL, STEEL JOISTS AND METAL DECK.
F. WELDING
G. COLD-FORMED METAL FRAMING.

STRUCTURAL ABBREVIATIONS

A.B. – ANCHOR BOLT
ADJT. – ADJUSTABLE
ADT. – ALTERNATE
ADDL. – ADDITIONAL
A.F.F. – ABOVE FINISH FLOOR
ARCH. – ARCHITECT OR ARCHITECTURAL
@ – AT
& – AND

BLK. – BLOCK
BLDG. – BUILDING
BM. – BEAM
BOT. – BOTTOM
BSMT. – BASEMENT
BP. – BASE PLATE
BRG. – BEARING

CANT. – CANTILEVER
C/C – CENTER TO CENTER
C.J. – CONTROL JOINT
C.L. – CENTERLINE
CLR. – CLEAR
COL. – COLUMN
C.J. – CONSTRUCTION JOINT
CTR. – CENTER
CONC. – CONCRETE
CONT. – CONTINUOUS
CMU – CONCRETE MASONRY UNIT

DEFL. – DEFLECTION
DEPR. – DEPRESSION
DET. – DETAIL
DIA. – DIAMETER
DIM. – DIMENSION
D.J. – DOUBLE JOIST
DWG. – DRAWING
DWL. – DOWEL

EA. – EACH
E.E. – EACH END
E.F. – EACH FACE
EXP JT – EXPANSION JOINT
EL. – ELEVATION
ELEV. – ELEVATOR
E-W – EAST-WEST
E.W. – EACH WAY
EQP. – EQUIPMENT
EX. – EXISTING
EXIST . – EXISTING
EXT. – EXTERIOR

FDN. – FOUNDATION
FIN. – FINISH
F.L. – FULL LENGTH
FLR. – FLOOR
F.S. – FAR SIDE
FTG. – FOOTING

GA. – GAGE
GD. – GRADE
GRD. – GROUND

HORIZ. – HORIZONTAL
HDR. – HEADER

INT. – INTERIOR

JST. – JOIST
JT. – JOINT

K. – KIP (1000 LBS.)

LLH – LONG LEG HORIZONTAL
LLV – LONG LEG VERTICAL
LONG. – LONGITUDINAL

MANUF. – MANUFACTURER
MAS. – MASONRY
MAX. – MAXIMUM
MIN. – MINIMUM
MK. – MARK

N-S – NORTH-SOUTH
NS – NEAR SIDE
NTS – NOT TO SCALE

OPG. – OPENING
OPP. – OPPOSITE
O/C – ON CENTER

PL. – PLATE

PSF – POUNDS PER SQUARE FOOT

R. – RISER
R/C – REINFORCED CONCRETE
REINF. – REINFORCE (D) (ING)
REQD. – REQUIRED

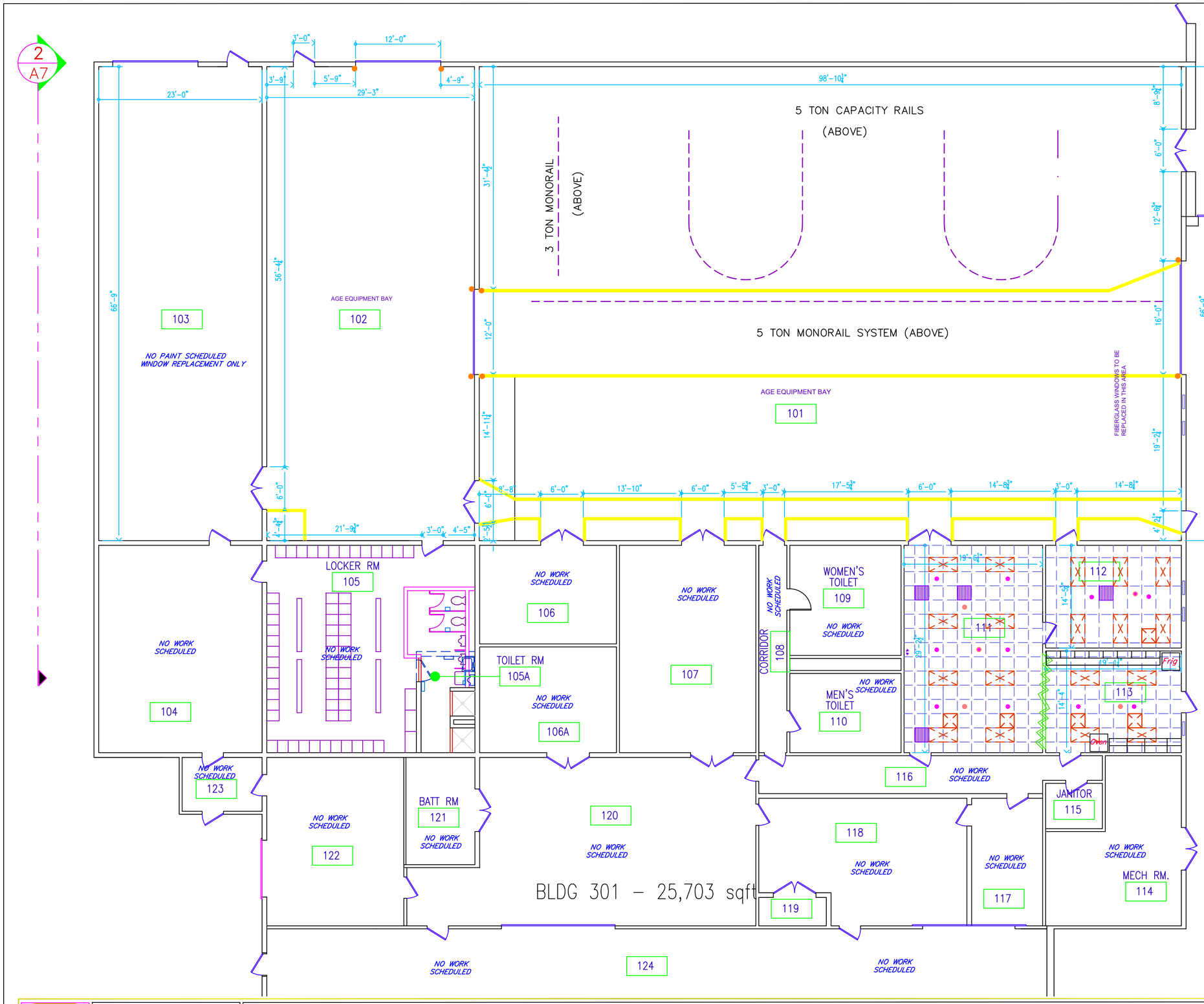
SCHED. – SCHEDULE
SECT. – SECTION
SHT. – SHEET
S.J. – STEEL JOIST
SL. – SLOPED
S.O.G. – SLAB-ON-GRADE
SPA. – SPACES OR SPACING
SPRD. – SPREAD
S.S. – SOLID SLAB
STD. – STANDARD
STL. – STEEL
STR. – STRUCTURE
STRU. – STRUCTURAL
SUP. – SUPPORT
SYM. – SYMMETRICAL

T. – TOP
T.&B. – TOP & BOTTOM
T/CONC. – TOP OF CONCRETE
TST – TOP OF STEEL
TSL – TOP OF SLAB
TYP. – TYPICAL

U.N.O. – UNLESS NOTED OTHERWISE

VERT. – VERTICAL
VBAR. – VAPOR BARRIER

W/ – WITH
W/O – WITHOUT
W.W.F. – WELDED WIRE FABRIC



SCOPE OF WORK GENERAL NOTES

ROOM 102
2. FLOOR, WALLS AND CEILING TO BE CLEANED AND PAINTED. ALL FIRE ALARM ELECTRICAL BOXES AND EXPOSED CONDUIT TO BE PAINTED RED. EXPOSED CAT 5 WIRES TO BE INSTALLED INTO A 4" CONDUIT TRAY AND MOUNTED TO WESTERLY WALL.

ROOM 101
3. FLOOR, WALLS AND CEILING TO BE CLEANED AND PAINTED. ALL FIRE ALARM ELECTRICAL BOXES AND EXPOSED CONDUIT TO BE PAINTED RED. EXPOSED CAT 5 WIRES TO BE INSTALLED INTO A 4" CONDUIT TRAY AND MOUNTED TO WESTERLY WALL.

ROOM 111
4. REMOVE EXISTING FLOOR TILES, CEILING TILES, CEILING GRID, AIR RETURNS GRATES, DIFFUSERS, AND 2x4 LAYIN LIGHTS. EXISTING APPARATUS IN CEILING TILE TO REMAIN. ROOM OCCUPANCY SENSORS TO BE INSTALLED IN ADDITION TO ALL THAT REMOVED.
ALL WALLS/DOORS TO BE PAINTED AND ALL FIRE ALARM JUNCTION BOXES AND CONDUIIT TO BE PAINTED RED ABOVE AND BELOW CEILING LINE.

ROOM 112
5. REMOVE EXISTING FLOOR TILES, CEILING TILES, CEILING GRID, AIR RETURNS GRATES, DIFFUSERS, AND 2x4 LAYIN LIGHTS. EXISTING APPARATUS IN CEILING TILE TO REMAIN. ROOM OCCUPANCY SENSORS TO BE INSTALLED IN ADDITION TO ALL THAT REMOVED.
ALL WALLS, DOORS AND WINDOW FRAMES TO BE PAINTED AND ALL FIRE ALARM JUNCTION BOXES AND CONDUIIT TO BE PAINTED RED ABOVE AND BELOW CEILING LINE.

ROOM 113
6. REMOVE EXISTING FLOOR TILES, CEILING TILES, CEILING GRID, AIR RETURNS GRATES, DIFFUSERS, AND 2x4 LAYIN LIGHTS. EXISTING APPARATUS IN CEILING TILE TO REMAIN. ROOM OCCUPANCY SENSORS TO BE INSTALLED IN ADDITION TO ALL THAT REMOVED.
ALL WALLS, DOORS AND WINDOWS FRAMES TO BE PAINTED AND ALL FIRE ALARM JUNCTION BOXES AND CONDUIIT TO BE PAINTED RED ABOVE AND BELOW CEILING LINE. CURTAIN WALL TO BE REMOVED.

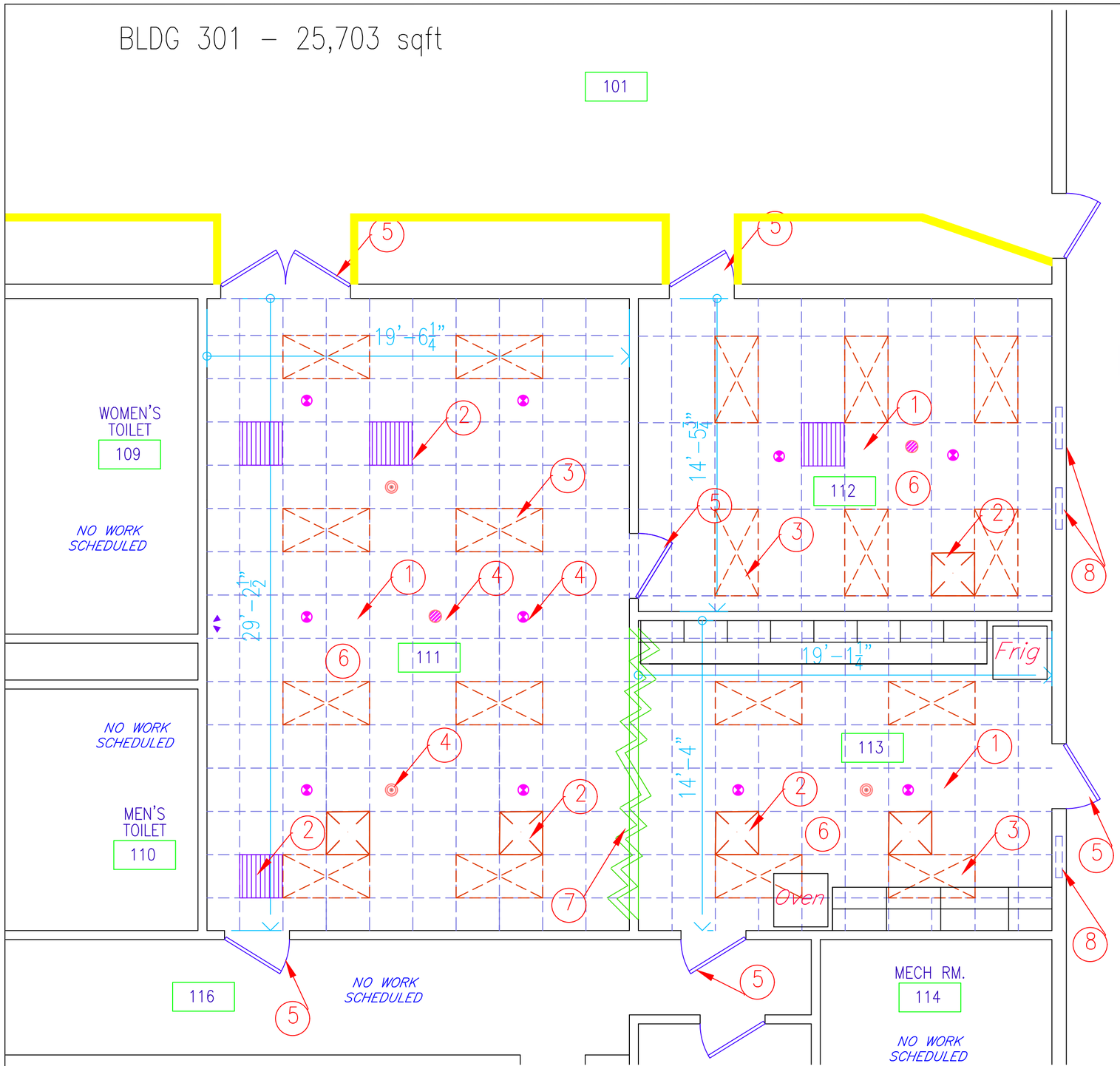
YOUNGSTOWN AIR RESERVE STATION
VIENNA, OHIO

AIR FORCE RESERVE COMMAND HEADQUARTERS - 910th AIRLIFT WING
3976 KINGS GRAVE ROAD, VIENNA, OHIO 44473
SUSTAIN - REPAIR BUILDING 301 - AGE EQUIPMENT
SCOPE OF WORK LAYOUT PLAN

G2
2 of 92

BUILDING NUMBER: 301
SCALE: 1/16" = 1'
DATE: 04/08/2026
DESIGN BY: D.J. CUTRER
CONST. DATE: 2021
GROSS SQ. FT.: 25,703

BLDG 301 – 25,703 sqft



LEGEND

- SWITCH
- SWITCH, THREE-WAY, DIMMER
- SWITCH, DIMMER
- DUPLEX OUTLET
- COMM/DATA
- Ex. EMERGENCY LIGHTING
- Ex. COLD AIR RETURN
- Ex. THEROMSTAT
- Ex. DUPLEX OUTLET
- Ex. COMM/DATA
- 2' x 2' RECESSED LIGHT FIXTURE LED
- 2' x 2' RECESSED LIGHT FIXTURE LED
- 8" SPEAKER COVER
- Ex. SUPPLY AIR DIFFUSER
- Ex. RECESSED LIGHT FIXTURE
- CEILING MOUNTED OCCUPANCY SENSOR
- SPRINKLER HEAD
- FIRE ALARM – HANDLE
- FIRE EXTINGUISHER
- 2'X2' ACT CEILING GRID
- MASS NOTIFICATION SPEAKER xx DENOTES WATTAGE TAP. WP DENOTES WEATHERPROOF. CLG DENOTES CEILING MOUNTED LOCATION. PWR DENOTES A SELF AMPLIFIED SECURITY SPEAKER.
- CEILING MOUNTED MASS NOTIFICATION COMBINATION SPEAKER/STROBE MARKED "ALERT" WITH AMBER COLORED LENSE. XX DENOTES CANDELA RATING. YY DENTOES WATTAGE TAP.

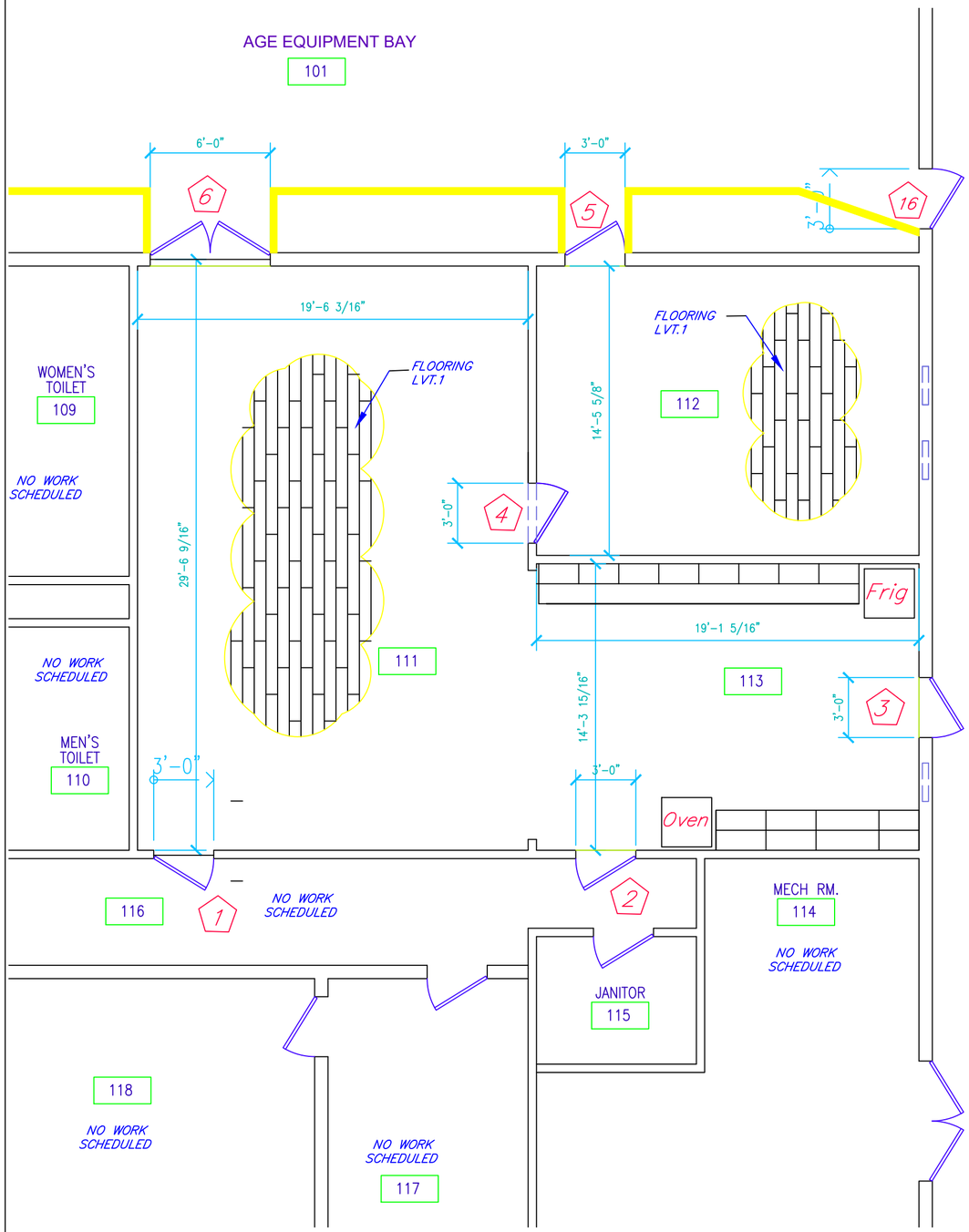
KEYED NOTES: BLDG 301, ROOM 111, 112 and 113

1. REMOVE EXISTING CEILING GRID AND 2'x2' PANELS
2. REMOVE EXISTING DIFFUSERS AND RETURN AIR GRATES
3. REMOVE EXISTING 2'x4' LAYIN LIGHTS.
4. EXISTING APPARATUS IN CEIING GRID TO BE SUPPORTED DURING CONSTRUCTION. (SPEAKERS, STROBES, SPRINKLERS)
5. REMOVE KICK PLATES FROM ALL DOORS.
6. REMOVE FLOOR TILE AND BASE COVE.
7. REMOVE EXISTING COLLASPABLE WALL AND TRACT SYSTEM.
8. REMOVE EXISTING BLINDS AND HARDWARE.

A1 – ROOM DEMOLITION PLAN

SCALE: 1/4" = 1'

YOUNGSTOWN AIR RESERVE STATION VIENNA, OHIO	AIR FORCE RESERVE COMMAND HEADQUARTERS - 910th AIRLIFT WING 3976 KINGS GRAVE ROAD, VIENNA, OHIO 44473 SUSTAIN - REPAIR BUILDING 301 - AGE EQUIPMENT ROOM 111, 112 & 113 DEMOLITION PLAN	A1 4 of 9	BUILDING NUMBER: 301 SCALE: 1/4" = 1'	DATE: 04/08/2026 DESIGN BY: D.J. CUTRER CONST. DATE: 2021 GROSS SQ. FT.: 25,703



A2 – ROOM FLOOR PLAN

SCALE: 3/16" = 1'

ROOM FINISH & COLOR SCHEDULE

RM. NO.	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS SOUTH	WALLS EAST	WALLS WEST	CEILING MAT	CEILING FIN	CEILING HGT	DOOR	FRAME	WINDOW	REMARKS
111	MAIN ROOM	LVT.1	VBC	PT.2	PT.2	PT.2	PT.2	ACT.1	–	M.E.	ALL/PT.1	ALL/PT.1	N/A	
112	SUPERINTENDENT ROOM	LVT.1	VBC	PT.2	PT.2	PT.2	PT.2	ACT.1	–	M.E.	ALL/PT.1	ALL/PT.1	ALL/PT.2,3	
113	BREAK AREA	LVT.1	VBC	PT.2	PT.2	PT.2	PT.2	ACT.1	–	M.E.	ALL/PT.1	ALL/PT.1	ALL/PT.2,3	PAINT INSIDE PORTION OF DOOR

OPENING / DOOR HARDWARE SCHEDULE

DOOR #	OPENING NUMBER	OPENING SIZE WIDTH	OPENING SIZE HGT	DOOR MAT	DOOR THK	DOOR TYPE	DOOR GL	FIRE RATING (MIN)	FRAME MAT	FRAME ELEV	FRAME TYPE	FRAME WIDTH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	SUSP.	LOCK	LATCH	PANIC DEVICE	DOOR PROT.	CLOSER	STOP	THRESHOLD	REMARKS
1	116	6'-11"	7'-8"	HM	1 3/4"	C	TG	–	HM	2	H2	5 7/8	–	–	–									
2	116	3'-0"	7'-0"	HM	–	A	TG	–		1	H1	5-7/8	–	–	–									
3	OUTSIDE	3'-6"	7'-0"	HM	1 3/4"	A	–	–	HM	1	H1	5-7/8	–	–	–									
4	112	3'-0"	7'-0"	HM	–	A	TG	–		1	H1	5-7/8	–	–	–		P			K				REPLACE HARDWARE w/BRUSHED ALUM
5	101	3'-6"	7'-0"	HM	1 3/4"	A	–	–	HM	1	H1	5-7/8	–	–	–		P			K				REPLACE HARDWARE w/BRUSHED ALUM
6	101	3'-6"	7'-0"	HM	1 3/4"	A	–	–	HM	1	H1	5-7/8	–	–	–					K				

OPENING/DOOR REMARKS NOTES

1 DOOR NUMBER REFERS TO THE ROOM DOOR SWINGS INTO, UNLESS NOTED AS OUTSWINGING IN THE REMARKS COLUMN.

2 WHEN THE ROOM HAS MORE THAN ONE OPENING, THE HYPHEN & ALPHABETIC SUFFIX REFERS TO THE HEXAGON LETTER ON THE FLOOR PLANS.

OPENING/DOOR SCHEDULE LEGEND

ALUM ALUMINUM
HM HOLLOW METAL
SCW SOLID CORE WOOD
TIG TEMPERED INSULATED GLASS
TG 1/4" TEMPERED GLASS

OPENING/DOOR REMARKS LEGEND

O DOOR SWINGS OUT OF ROOM
R REFER TO FRAME ELEVATION

HARDWARE SCHEDULE LEGEND

BH BUTT HINGES
C CLASSROOM FUNCTION
E ENTRANCE FUNCTION
K KICKPLATE
P PASSAGE FUNCTION
PP PUSH/PULL
S STOREROOM FUNCTION
W WALL

COLOR SCHEDULE KEY:

ETR EXISTING TO REMAIN
P&M PATCH & MATCH EXISTING
M.E. MATCH EXISTING

FLOOR ROOM 111, 112 & 113

LVT.1 LUXURY VINYL TILE – KARNDEAN, VAN GOGH WOOD, RECLAIMED AMERICAN REDWOOD, VGW99T, 48" x 7" x (1/8") CUSTOM ADHESIVE

BASE ROOM 111, 112 & 113

VBC.1 RUBBER COVE BASE – ROPE, PINNACLE WALL BASE, STANDARD TOE, COLOR: 187 BLUE – 4" H. X 1/8"

DOORS/FRAMES & WINDOWS ROOM 111, 112 & 113

PT.1 PAINT – SHERWIN WILLIAMS, A-100 EXTERIOR ARCYLIC LATEX. LOW-ODOR PAINT, COLOR: SW-6509 GEORGIAN BAY, EGG SHELL FINISH, 2 COATS, (FOR DOORS/FRAMES)

PT.2 PAINT – SHERWIN WILLIAMS, ALL SURFACE ENAMEL OIL PRIMER, WHITE.

PT.3 PAINT – PRO CLASSIC, INTERIOR ALKYD OIL BASED ENAMEL, SW-6509 GEORGIAN BAY, SEMI-GLOSS FINISH, 2-COATS. (FOR CASEMENT WINDOWS)

WALLS ROOM 111, 112 & 113

PT.4 PAINT – SHERWIN WILLIAMS, A-100 EXTERIOR ARCYLIC LATEX, COLOR: SW-7004 SNOWBOUND, EGG SHELL FINISH, 2 COATS

CEILING ROOM 111, 112 & 113

ACOUSTIC CEILING TILE – ARMSTRONG, CIRRUS ANGLED REGULAR 584 2' x 2' x 3/4" WITH PRELUDE 15/16" SUSPENSION SYSTEM – WHITE

CABINETS ROOM 113

REPLACE LOWER CABINET HARDWARE WITH AMERDECO BRUSHED SATIN NICKEL CABINET PULLS BIN CUP STYLE

SCHEDULED NOTES

1. INTERIOR DOORS AND FRAMES TO BE PAINTED ON BOTH SIDES.
2. EXTERIOR DOORS AND FRAMES TO BE PAINTED ON THE INSIDE SURFACE ONLY.
3. REFER TO THE REFLECTED CEILING FINISH PLAN A3 FOR SQFT FINISHES AND COLORS.
4. CASEMENT WINDOWS TO BE SANDED AND PRIMED(1 COAT) PRIOR TO PAINTING.
5. REPLACE METAL HORIZONTAL BLINDS WITH NEW WHITE BLINDS. SIMILAR TO EXISTING.

GENERAL NOTES

A. PAINT ALL HOLLOW METAL TRIM PT.4 – WILLIAMS, PRO CLASSIC ALKYD INTERIOR ENAMEL, LOW-ODOR PAINT, COLOR: SW 6509 GEORGIAN BAY, SEM IGLOSS OIL.

B. MATCH ADJOINING OR EXISTING SIMILAR SURFACES COLORS, TEXTURES OR PATTERNS WHERE DISTURBED OR DAMAGED BY ALTERATIONS OR NEW WORK WHEN NOT SCHEDULED.

C. WHERE FIN TUBE COVERS, CONVECTORS, METAL ACCESS DOORS, PANELS, COVER PLATES OR OTHER MISC. METALS OCCUR WITHIN A WALL, PAINT THEM TO MATCH THE COLOR OF THE WALL.

D. WHERE RESILIENT FLOORING MEETS EXISTING FLOORING, PROVIDE THE APPROPRIATE RESILIENT TRIM PER SPECIFICATIONS. ROPE COLOR: 187 BLUE.

E. REMOVE AND REPLACE OVERSIUZED DOOR KICK PANELS WITH NEW STAINLESS STEEL PANELS. MATCH EXISTING SIZES AND FASTEN WITH STAINLESS STEEL TRIM SCREWS.

F. ALL SURFACES TO BE PREPPED IN ACCORDANCE WITH WALL OR FLOOR COVERINGS MANUFACTURERS SPECIFICATIONS.

ROOM FINISH SCHEDULE LEGEND

SOME MAY NOT OCCUR

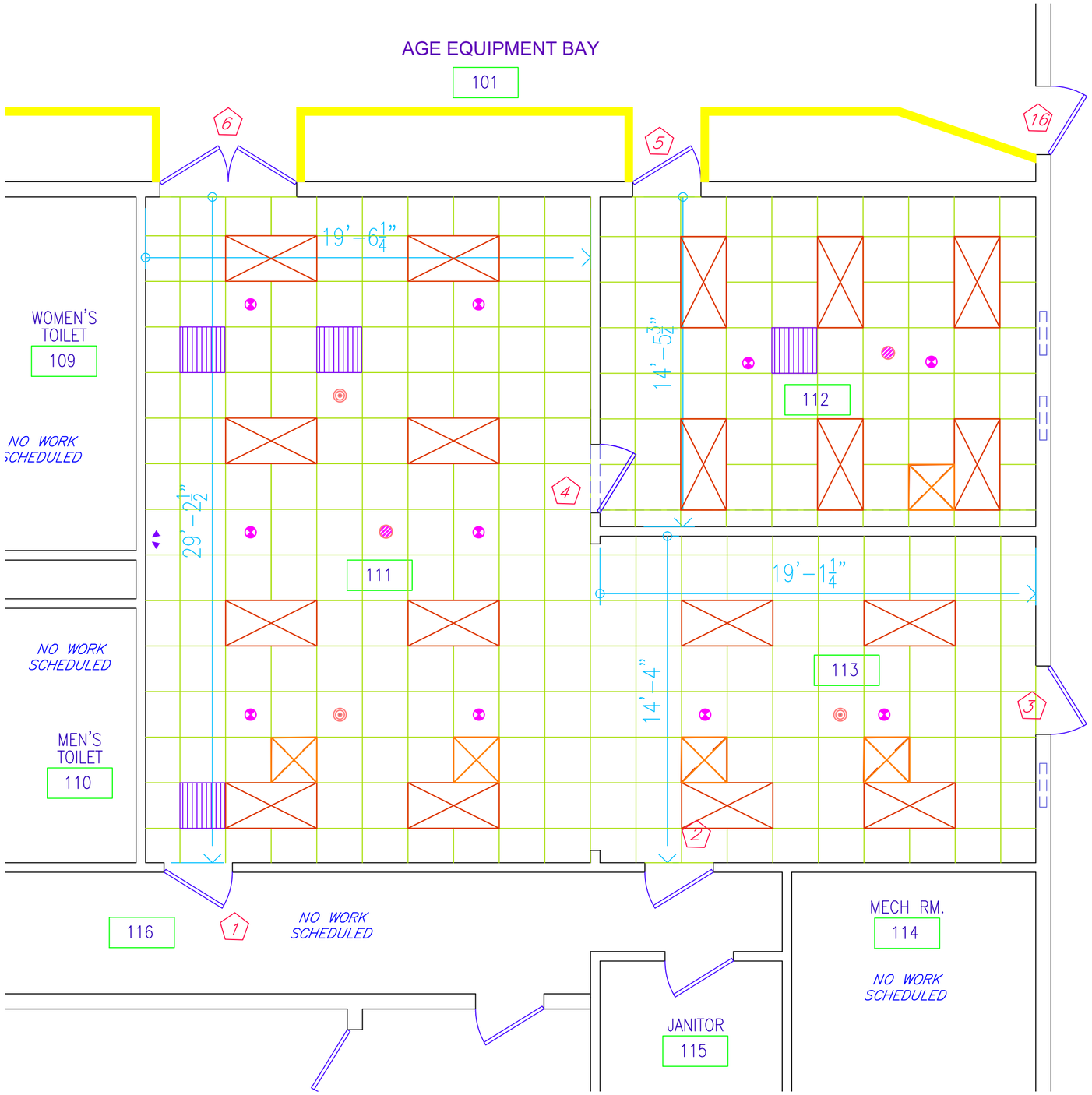
ACP 2x4 LAY-IN CEILING PANEL
ACT 1X1 GLUED CEILING TILE
ETR EXISTING TO REMAIN
C/G CONCRETE MASONRT UNIT & GYPSUM WALLBOARD
CMU CONRETE MASONRY UNIT
CPT CARPET
CPTC CARPET COVED
CT CERAMIC TILE
GB GYPSUM WALLBOARD
ME MATCH EXISTING
PRE PREFINISHED
PT PAINT
SVC SHEET VINYL COVED
SVT SOLID VINYL TILE
VAR VARIES
VBC VINYL BASE COVED
VBS VINYL BASE STRAIGHT
WC WALL COVERING
WM WALK-OFF MATERIAL

YOUNGSTOWN AIR RESERVE STATION
VIENNA, OHIO

AIR FORCE RESERVE COMMAND HEADQUARTERS - 910th AIRLIFT WING
3976 KINGS GRAVE ROAD, VIENNA, OHIO 44473
SUSTAIN - REPAIR BUILDING 301 - AGE EQUIPMENT
ROOM 111, 112, 113 FLOOR PLAN

A2
5 of 9

BUILDING NUMBER: 301
SCALE: 3/16" = 1'
DATE: 04/08/2026
DESIGN BY: D.J. CUTRER
CONST. DATE: 2021
GROSS SQ. FT.: 25,703



A3 – REFLECTIVE CEILING PLAN

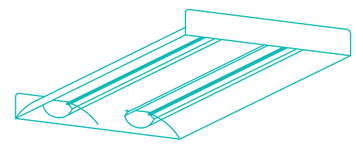
SCALE: 1/4" = 1'

LEGEND

- SWITCH
- SWITCH, THREE-WAY, DIMMER
- SWITCH, DIMMER
- DUPLEX OUTLET
- COMM/DATA
- Ex. EMERGENCY LIGHTING
- Ex. COLD AIR RETURN
- Ex. THEROMSTAT
- Ex. DUPLEX OUTLET
- Ex. COMM/DATA
- 2' x 2' RECESSED LIGHT FIXTURE LED
- 2' x 2' RECESSED LIGHT FIXTURE LED
- 8" SPEAKER COVER
- Ex. SUPPLY AIR DIFFUSER
- Ex. RECESSED LIGHT FIXTURE
- CEILING MOUNTED OCCUPANCY SENSOR
- SPRINKLER HEAD
- FIRE ALARM – HANDLE
- FIRE EXTINGUISHER
- 2'X2' ACT CEILING GRID
- MASS NOTIFICATION SPEAKER xx DENOTES WATTAGE TAP. WP DENOTES WEATHERPROOF. CLG DENOTES CEILING MOUNTED LOCATION. PWR DENOTES A SELF AMPLIFIED SECURITY SPEAKER.
- CEILING MOUNTED MASS NOTIFICATION COMBINATION SPEAKER/STROBE MARKED "ALERT" WITH AMBER COLORED LENSE. XX DENOTES CANDELA RATING. YY DENTOES WATTAGE TAP.

CEILING ROOM 111, 112 & 113

ACOUSTIC CEILING TILE – ARMSTRONG, CIRRUS ANGLED REGULAR 584 2' x 2' x 3/4" WITH PRELUDE 15/16" SUSPENSION SYSTEM – WHITE



LUMINAIRE REQUIREMENTS:

1. HOUSING – DIE-FORMED, COLD ROLLED STEEL, WITH ONE-PIECE LOWER REFLECTOR HAVING TEXTURED, HIGH REFLECTANCE, WHITE POLYESTER POWDER-COATED FINISH. OPTIONAL SIZES OF 1FT x 4FT, 2FT x 2FT, AND 2FT x 4FT AVAILABLE.
2. LIGHT SOURCE – UPWARD-FACING LEDS WITH DIFFUSE LENS TO ELIMINATE DIRECT VIEW OF LIGHT SOURCE. 3500K COLOR TEMPERATURE UON, MAXIMUM BINNING TOLERANCE OF A 4-STEP MCADAM ELLIPSE, MINIMUM EFFICACY OF 90 LUMENS/WATT, WITH A MINIMUM CRI OF 80. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER – REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED IN LUMINAIRE SCHEDULE.
5. CERTIFICATION – UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP. IC RATED WHEN INDICATED.
6. MOUNTING – RECESSED IN SUSPENDED ACOUSTICAL TILE OR HARD CEILING.
7. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

DIRECT/INDIRECT LED TROFFER A

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SUSTAIN - REPAIR BUILDING 301 - AGE EQUIPMENT
REFLECTIVE CEILING PLAN

A3
6 of 9

BUILDING NUMBER:	301
SCALE:	1/4 " = 1'
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CONST. DATE:	2021
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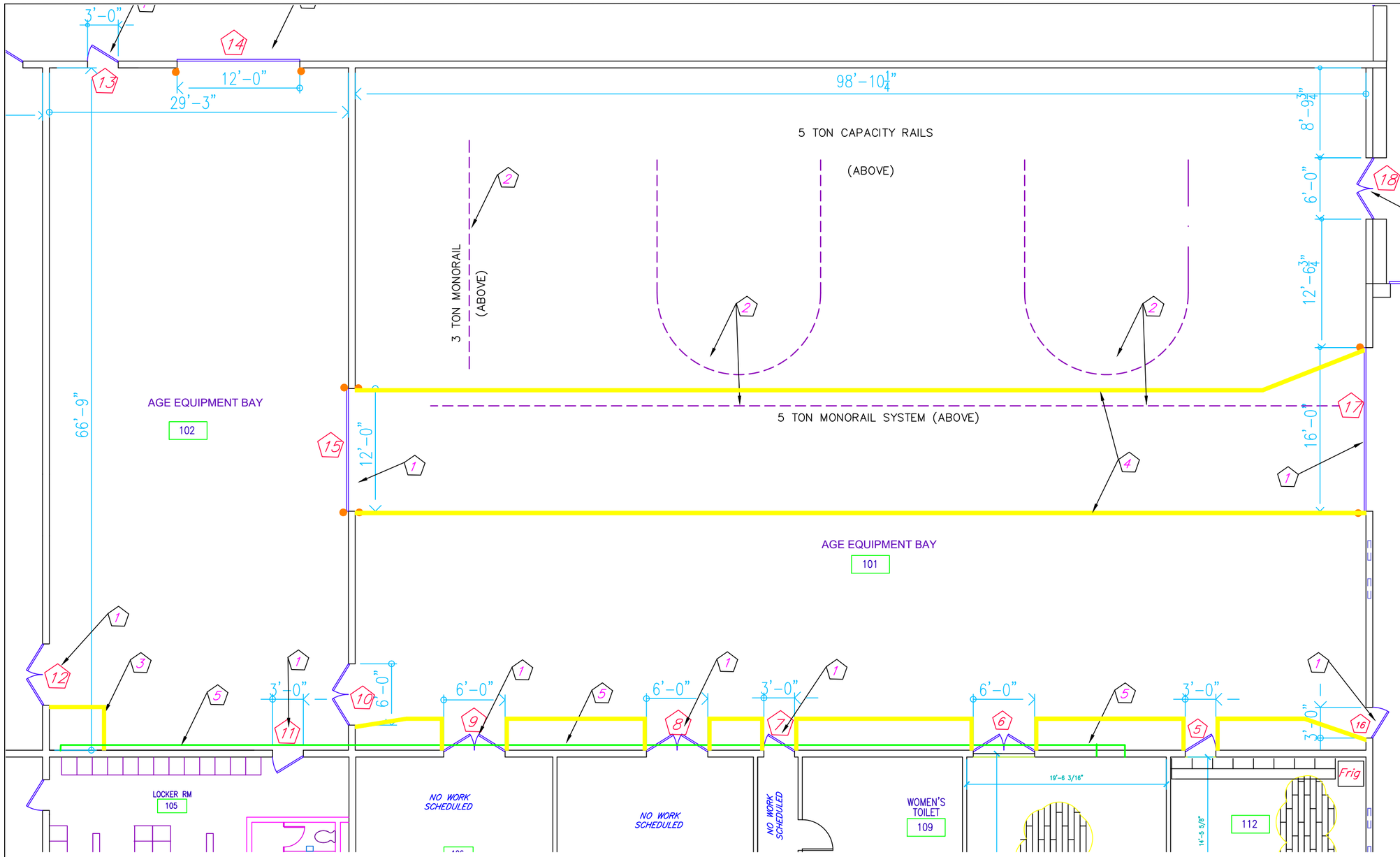

A4 – ROOM & FLOOR PLAN, 101 & 102

COLOR SCHEDULE KEY:

ETR EXISTING TO REMAIN
P&M PATCH & MATCH EXISTING
M.E. MATCH EXISTING

FLOOR ROOM 101 & 102

PT.5 ARMOR POXY, ARMOR ULTRA EPOXY FLEXIBLE SYSTEM, COLOR: MEDIUM GRAY, ARMOR POXY, 805 LEHIGH AVENUE, UNION NEW JERSEY, 07083. (888)755-7361, NFO@ARMORPOXY.COM

DOORS & FRAMES ROOM 101 & 102

PT.6 PAINT – SHERWIN WILLIAMS, A-100 EXTERIOR ARCYLIC LATEX, LOW ODOR, COLOR: SW-6509 GEORGIAN BAY, EGG SHELL FINISH, 2 COATS

WALLS ROOM 101 & 102

PT.4 PAINT – SHERWIN WILLIAMS, A-100 EXTERIOR ARCYLIC LATEX, COLOR: SW-7004 SNOWBOUND, EGG SHELL FINISH, LOW ODOR, 2 COATS (UPPER SECTION)

PT.7 PAINT – SHERWIN WILLIAMS, A-100 EXTERIOR ARCYLIC LATEX, COLOR: SW-6803 DANUBE, EGG SHELL FINISH, LOW ODOR, 2 COATS (LOWER SECTION)

STRIPING ROOM 101 & 102, SEE A5

PT.8 PAINT – SHERWIN WILLIAMS, A-100 EXTERIOR ARCYLIC LATEX, COLOR: SW-6871 POSITIVE RED EGG SHELL FINISH, LOW ODOR, 2 COATS, 4" WIDE BETWEEN UPPER/LOWER SECTION)

PT.9 PAINT – SHERWIN WILLIAMS, A-100 EXTERIOR ARCYLIC LATEX, COLOR: SW-7005 PURE WHITE EGG SHELL FINISH, LOW ODOR, 2 COATS, 4" WIDE (BETWEEN UPPER/LOWER SECTION)

PT.10 PAINT – SHERWIN WILLIAMS, A-100 EXTERIOR ARCYLIC LATEX, COLOR: SW-6967 FRANK BLUE, EGG SHELL FINISH, LOW ODOR, 2 COATS, 4" WIDE (BETWEEN UPPER/LOWER SECTION)

CEILING ROOM 101 & 102

PT.4 PAINT – SHERWIN WILLIAMS, A-100 EXTERIOR ARCYLIC LATEX, COLOR: SW-7004 SNOWBOUND, EGG SHELL FINISH, LOW ODOR, 2 COATS

BOLLARDS & FLOOR STRIPING ROOM 101 & 102

PT.10 PAINT – SHERWIN WILLIAMS, A-100 EXTERIOR ARCYLIC LATEX, COLOR: "SAFETY YELLOW", GLOSS FINISH, LOW ODOR, 2 COATS

FIRE SYSTEM ROOM 101 & 102
(ALL CONDUIT, JUNCTION BOXES)

PT.7 PAINT – SHERWIN WILLIAMS, A-100 EXTERIOR ARCYLIC LATEX, COLOR: SW-6871 POSITIVE RED, EGG SHELL FINISH, LOW ODOR, 2 COATS

SCHEDULED NOTES

1. DOORS/FRAMES THAT LEAD TO AREA'S OF NO WORK ARE TO BE PAINTED ON WORK SIDE ONLY.
2. OVERHEAD MONORAIL TO BE PAINTED PT.6.
3. RE-PAINT FLOOR STRIPING.
4. YELLOW LANE STRIPES TO BE REMOVED.
5. EXISTING GROUPING OF CAT 5 CABLE TO BE DISCONNECTED AND INSTALLED IN 2" PVC CONDUIT AND RECONNECTED TO AS FOUND CONDITIONS. MOUNT TO WALL WITH UNI-STRUT.

GENERAL NOTES

A. EQUIPMENT THAT IS WALL MOUNTED TO BE COVERED, CEILING MOUNTED RADIANT HEAT TO BE COVERED, CAGES AND ALL MISC. MOUNTED EQUIPMENT TO BE COVERED. WHEELED FLOOR EQUIPMENT TO BE REMOVED (COVERED IN PLACE) BY AGE PERSONNEL.

B. ELECTRIC, MECHANICAL PANELS WILL BE COVERED. DO NOT PAINT.

C. EXISTING GAS AND FIRE SUPRESSION LINES TO BE COVERED DURING PAINTING OF CEILING.

ROOM FINISH & COLOR SCHEDULE

RM. NO.	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS SOUTH	WALLS EAST	WALLS WEST	CEILING MAT	CEILING FIN	CEILING HGT	SCHEDULED NOTES
101	AGE EQUIPMENT BAY	PT.5	N/A	PT.4/.7	PT.4/.7	PT.4/.7	PT.4/.7	PT.4	–	+20'	STRIPING AS PER A5
102	AGE EQUIPMENT BAY	PT.5	N/A	PT.4/.7	PT.4/.7	PT.4/.7	PT.4/.7	PT.4	–	+20'	STRIPING AS PER A5

ROOM FINISH SCHEDULE LEGEND

SOME MAY NOT OCCUR

ACP	2x4 LAY-IN CEILING PANEL
ACT	1X1 GLUED CEILING TILE
ETR	EXISTING TO REMAIN
C/G	CONCRETE MASONRT UNIT & GYPSUM WALLBOARD
CMU	CONRETE MASONRY UNIT
CPT	CARPET
CPTC	CARPET COVED
CT	CERAMIC TILE
GB	GYPSUM WALLBOARD
ME	MATCH EXISTING
PRE	PREFINISHED
PT	PAINT
SVC	SHEET VINYL COVED
SVT	SOLID VINYL TILE
VAR	VARIES
VBC	VINYL BASE COVED
VBS	VINYL BASE STRAIGHT
WC	WALL COVERING
WM	WALK-OFF MATERIAL

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SUSTAIN - REPAIR BUILDING 301 - AGE EQUIPMENT
ROOM & FLOOR PLAN, 101 & 102

A4
7 of 9

BUILDING NUMBER:	301
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CONST. DATE:	2021
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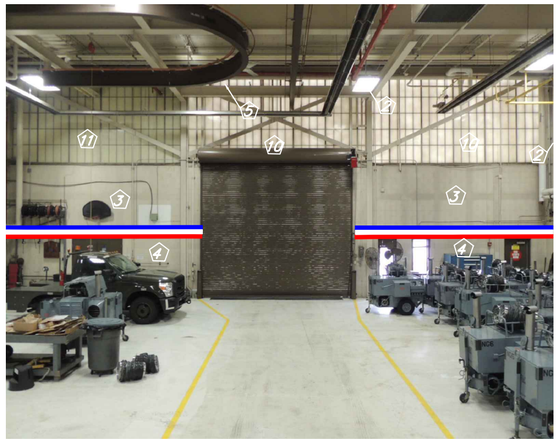
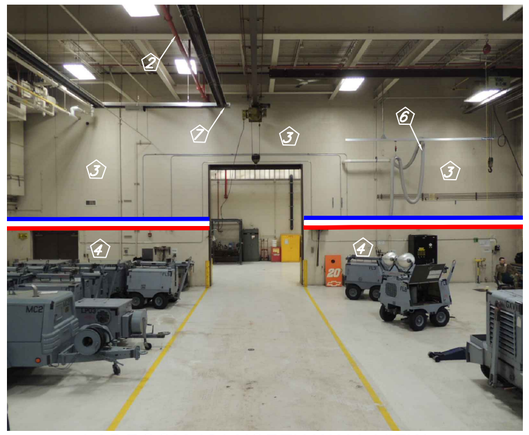
GROSS SQ. FT.:	25,703

1/A5 ROOM 101 WEST WALL VIEW (PARTIAL)

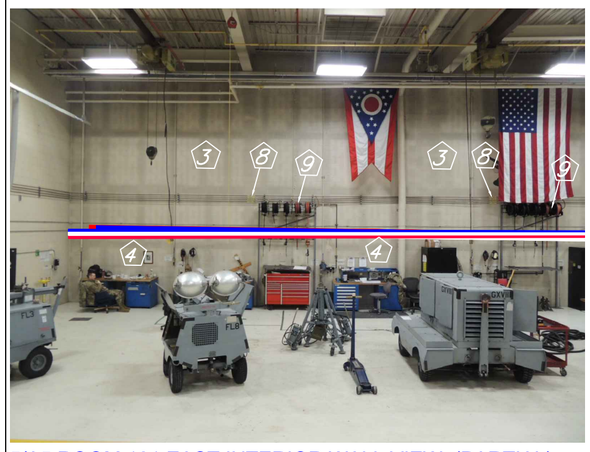
2/A5 ROOM 101 WEST WALL VIEW (PARTIAL)



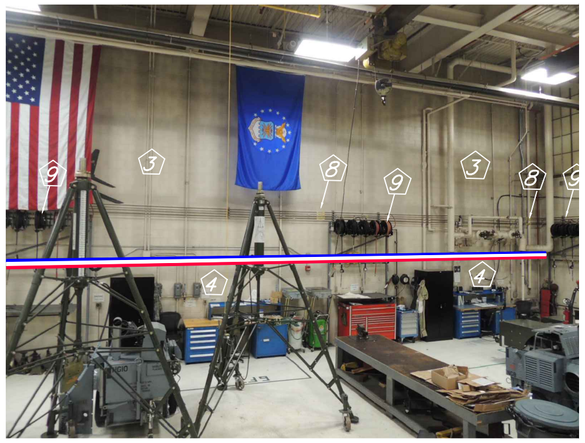
3/A5 ROOM 101 SOUTH WALL VIEW



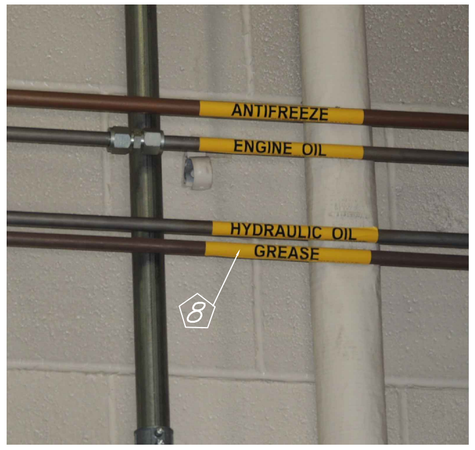
4/A5 ROOM 101 NORTH WALL VIEW



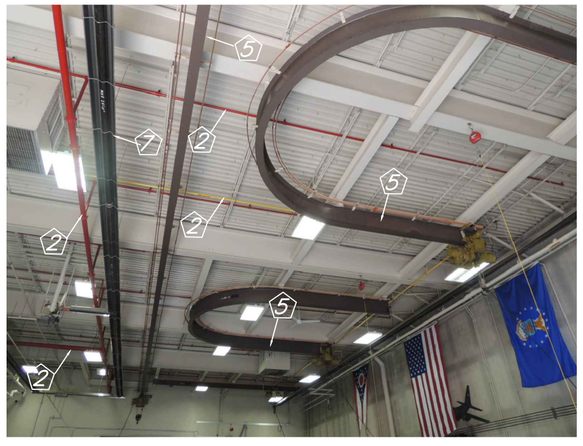
5/A5 ROOM 101 EAST INTERIOR WALL VIEW (PARTIAL)



6/A5 ROOM 101 EAST INTERIOR WALL VIEW (PARTIAL)



7/A5 ROOM 101 SERVICE LINE LABELING



8/A5 ROOM 101 CEILING VIEW

SCHEDULED NOTES

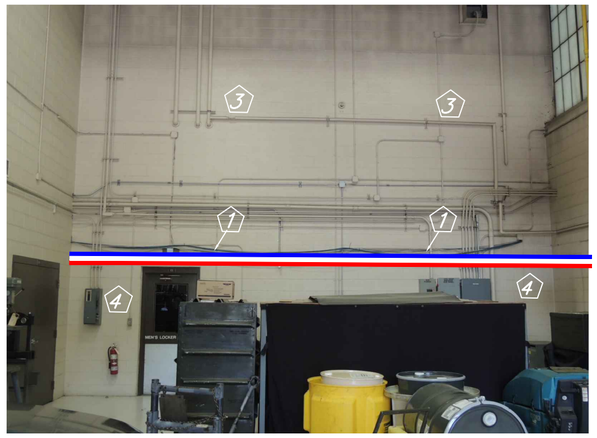
1. SPEAKER SYSTEM TO BE REMOVED BY OWNERS.
2. FIRE RELATED LINES/GAS LINES TO REMAIN RESPECTIVE COLOR. COVER LINES OR REPAINT.
3. WALL ABOVE USA STRIPE TO BE PAINTED PT.4
4. WALL AREA BELOW USA STRIPE TO BE PAINTED PT.7.
5. MONORAIL SYSTEMS TO BE PAINTED PT.6.
6. VENTILATION SYSTEM TO BE COVERED.
7. RADIANT HEAT SYSTEM TO BE COVERED.
8. COVER YELLOW LABELING OF SERVICE LINES. LINES TO BE PAINTED PER WALL SECTION COLORING. REFER TO PICTURE 7/A5.
9. REEL SYSTEMS TO BE COVERED FOR PAINTING.
10. EXISTING FIBERGLASS WINDOWS TO BE REPLACED WITH GLASS BLOCK AS PER DETAILS ON A7.
11. EXISTING SECTION OF FIBERGLASS WINDOWS THAT SIDE INTO ROOM 125 TO REMAIN.

GENERAL NOTES

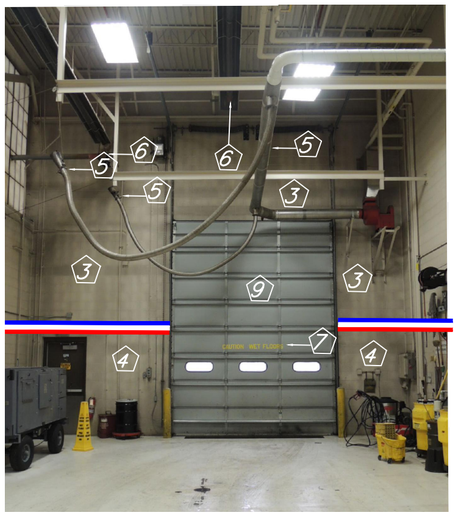
A. EQUIPMENT THAT IS WALL MOUNTED TO BE COVERED, CEILING MOUNTED RADIANT HEAT TO BE COVERED, CAGES AND ALL MISC. MOUNTED EQUIPMENT TO BE COVERED. WHEELED FLOOR EQUIPMENT TO BE REMOVED (COVERED IN PLACE) BY AGE PERSONNEL.

B. ELECTRIC, MECHANICAL PANELS WILL BE COVERED. DO NOT PAINT.

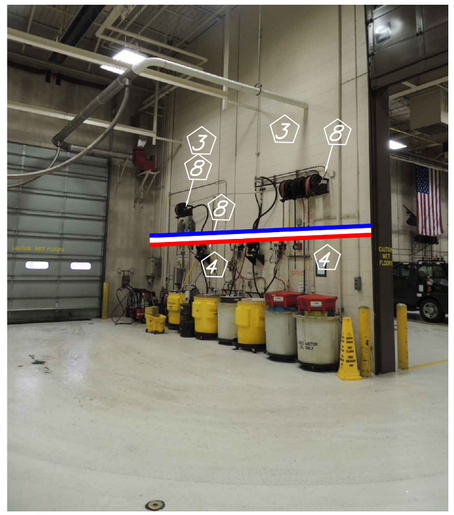
C. EXISTING GAS, FIRE SUPPRESSION LINES, RADIANT HEAT, AND LIGHTING TO BE COVERED DURING PAINTING OF CEILING.



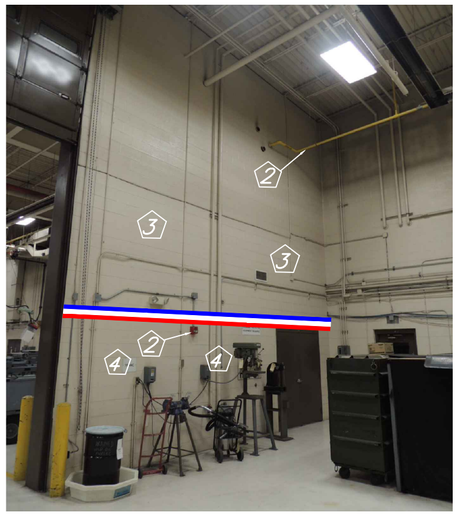
1/A6 ROOM 102 WEST WALL VIEW



2/A6 ROOM 101 EAST WALL VIEW

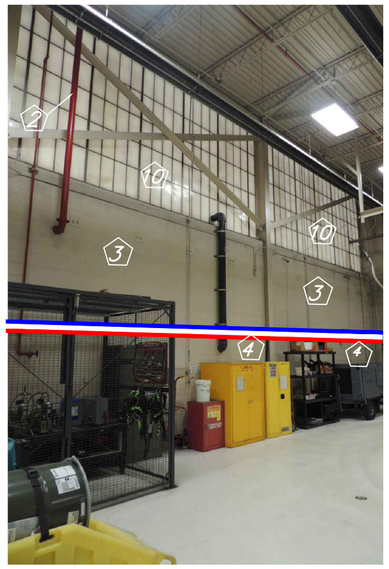


3/A6 ROOM 101 SOUTH WALL VIEW (PARTIAL)

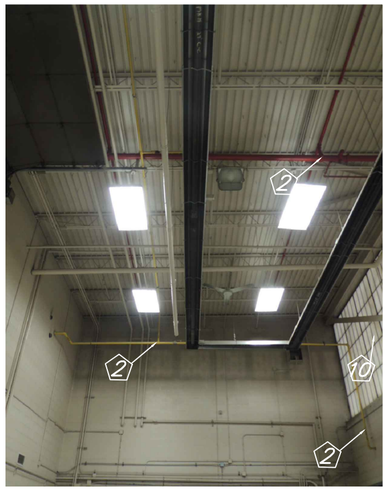


4/A6 ROOM 101 SOUTH WALL VIEW (PARTIAL)

5/A6 ROOM 102 NORTH WALL VIEW (PARTIAL)



6/A6 ROOM 102 NORTH WALL VIEW (PARTIAL)



7/A6 ROOM 102 CEILING VIEW (LOOKING WEST)

SCHEDULED NOTES

1. CAT 6 CABLING TO BE INSTALLED IN 2" PVC CONDUIT. CONDUIT TO BE SUPPORTED BY UNI-STRUT 1⅝" METAL FRAMING AND 2" STRAPS.
2. FIRE RELATED LINES/GAS LINES TO REMAIN RESPECTIVE COLOR. COVER LINES OR REPAINT.
3. WALL ABOVE USA STRIPE TO BE PAINTED PT.4
4. WALL AREA BELOW USA STRIPE TO BE PAINTED PT.7.
5. VENTILATION SYSTEM TO BE COVERED.
6. RADIANT HEAT SYSTEM TO BE COVERED.
7. REPLACE ALL STENCILING TO AS FOUND.
8. REEL SYSTEMS TO BE COVERED FOR PAINTING.
9. PAINT INTERIOR SIDE SECTION OF OVERHEAD DOOR PT.6
10. EXISTING FIBERGLASS PANELS TO BE REPLACED WITH GLASS BLOCK. REFER TO A7 FOR DETAILS

GENERAL NOTES

A. EQUIPMENT THAT IS WALL MOUNTED TO BE COVERED, CEILING MOUNTED RADIANT HEAT TO BE COVERED, CAGES AND ALL MISC. MOUNTED EQUIPMENT TO BE COVERED. WHEELED FLOOR EQUIPMENT TO BE REMOVED (COVERED IN PLACE) BY AGE PERSONNEL.

B. ELECTRIC, MECHANICAL PANELS WILL BE COVERED. DO NOT PAINT.

C. EXISTING GAS, FIRE SUPPRESSION LINES, RADIANT HEAT, AND LIGHTING TO BE COVERED DURING PAINTING OF CEILING.