GENERAL NOTES:
1. ALL CONCRETE SHALL HAVE A MINIMUM COMpressive STRENGTH OF f'c=4,000 PSI
   AT 28 DAYS AND SHALL HAVE A MINIMUM DENSITY OF 145 PCF.
2. ALL REINFORCING BARS SHALL CONFORM TO THE SPECIFICATION FOR DEFORMED BILLET
   STEEL BARS FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A615, GRADE 60, EXCEPT
   AS NOTED.
3. CONCRETE AGGREGATE SHALL HAVE A MAXIMUM SIZE OF 1 IN. DIAMETER.
4. ALL REINFORCING BARS SHALL BE CONTINUOUS IN ANY ONE DIRECTION EXCEPT WHERE
   OTHERWISE SHOWN ON THE DRAWINGS.
5. REINFORCING BARS USED AS MOLDED REBAR AND/OR SHALL CONFORM TO THE
   SPECIFICATION FOR LOW ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT,
   ASTM DESIGNATION A 706, GRADE 60.
6. NO MELDING OF REINFORCING BARS SHALL BE PERMITTED UNLESS INDICATED ON DRAWINGS.
7. ALL STRUCTURAL STEEL, METAL DOORS, EQUIPMENT, ETC. SHALL BE CONNECTED TO
   GROUND BUSES WITH #2 COPPER GROUND CABLE.
8. STRUCTURAL STEEL SHAPES, PLATES AND BARS SHALL CONFORM TO THE SPECIFICATION
   FOR STRUCTURAL STEEL, ASTM DESIGNATION A36.
9. METAL ROOFING AND SIDING SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL
   SHEET STEEL, ASTM A667.
10. BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE SPECIFICATION FOR LOW CARBON
    STEEL Threaded STANDARD FASTENERS, ASTM DESIGNATION A307, GRADE A AND HIGH
    STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS, ASTM DESIGNATION A325. ALL
    BOLTS SHALL HAVE THREADS EXCLUDED FROM THE SHEAR PLANE.
11. UNLESS NOTED ON DRAWINGS, SPICE LENGTH OF REINFORCING BARS SHALL BE IN
    ACORDANCE WITH THE REQUIREMENTS OF ACT 318 (LATEST EDITION) FOR CLASS B
    SPACINGS.
12. FOR FELT WELD SIZES NOT SHOWN ON DRAWINGS, PROVIDE MINIMUM SIZE FELT
    WELDS IN ACCORDANCE WITH WELDING CODE AWS D1.1, LATEST EDITION.
13. UNLESS SHOWN OTHERWISE, ALL REINFORCING BAR HOOPS SHALL BE STANDARD HOOPS
    IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
    ACT 318, LATEST EDITION.
14. HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED EXCEPT AS
    SHOWN ON DRAWINGS S-4, S-5, S-5-6, S-7, S-8, S-9, S-10, S-11, S-12, S-13, S-15 & S-16.
15. ALL TOPSOIL, ORGANIC MATERIAL AND OTHER UNSUITABLE MATERIALS BENEATH MAGAZINE
    STRUCTURE SHALL BE REMOVED TO SUITABLE BEARING STRATA AND REPLACED WITH
    STRUCTURAL FILM TO THE REQUIRED ELEVATION.
16. ALL STRUCTURAL FILM SHALL CONFORM TO ASTM C 55, SIZE 57 & SHALL BE COMPACTED
    IN ACCORDANCE WITH ASTM D 553. THE TOP 12 INCHES OF STRUCTURAL FILM SHALL BE
    PLACED IN USTS NOT EXCEEDING 8 INCHES & EACH UST COMPACTED TO 95 PERCENT OF
    MAXIMUM DENSITY. BENEATH THE TOP 12 INCHES, STRUCTURAL FILM SHALL BE PLACED
    IN USTS NOT EXCEEDING 8 INCHES & EACH UST COMPACTED TO 90 PERCENT OF MAXIMUM
    DENSITY.
17. EQUIPMENT WORKING MORE THAN 3000 LBS SHALL NOT BE USED ON THE STRUCTURE
    ROOF NOR WITHIN TEN (10) FEET FROM THE EDGE OF THE FOUNDATIONS.
18. TAKE THIS SHEET NUMBER SHOWN ON THIS SHEET NO. 1 OF 12 SHEETS.

SOIL DATA

MAGAZINE:
A. ALLOWABLE SOIL BEARING PRESSURE = 4000 PSF
B. ALLOWABLE DYNAMIC RESPONSE FACTOR (SOIL BEARING) = 2.5
C. ALLOWABLE LATENT SOIL PRESSURE COEFFICIENT
   a) MAGAZINE WALLS = 0.5
   b) MUG WALLS = 0.3
D. ALLOWABLE COEFFICIENT OF TRACTION (CONCRETE ON SOIL) = 0.35
E. MODULUS OF SUBSURFACE REACTION = 150 PSF - 250 PSF

DEFLECTION CRITERIA
MAXIMUM SUPPORT ROTATIONS OR DUCTILITY RATIO:
A. ROOF SLAB = 8°
B. HEAD WALL = 6°
C. HEAD BEAM = 2°
D. PLASTERS s'/s = 3.0
E. BLAST DOORS = 12°

DESIGN LOADS

STATIC LOADS:
A. ROOF DEAD LOAD (194 FT. EARTH FILL + 6 IN. GRAVEL) = 200 PSF
B. FLOOR LOADS
   a) UNIFORM STORAGE LIVE LOAD = 2000 PSF
   b) FORCSTY MILES LOAD = 2000 PSF
   c) PLATFORM NO. SL-BB-ESS MAXIMUM MILE LOAD = 2000 PSF
   d) MILE CONTACT AREA = 65 SQUARE FT
C. PLATFORM AND RAMP LIVE LOAD = 1000 PSF
D. ROOF LIVE LOAD = 1000 PSF

SEISMIC LOADS:
A. PROVIDE SEISMIC LOADS INDUCED BY EARTHQUAKE
   MOTIONS UP TO ZONE 4.

WIND LOADS:
A. NAVYDAM-DM-202, 132 MPH PEAK VELOCITY

BLAST LOADS:
A. NAVYSEA OP 5
   BASED ON INTERMAGAZINE SEPARATION DISTANCES FOR A QUANTITY (W)
   OF 65.000,000 LBS. AS FOLLOWS:
   A. ROOF: DONOR MAGAZINE LOCATED AT 2W/3 TO THE REAR OF
      THE ACCEPTOR MAGAZINE.
   B. HEAD WALL: DONOR MAGAZINE LOCATED AT 2W/3 TO THE FRONT OF
      THE ACCEPTOR MAGAZINE.

STANDARD DRAWING NOTE:
THIS DRAWING SET: NAVY PAC DRAWINGS 6448555 THRU
6448558, WAS APPROVED AS THE STANDARD 7-BAR
EARTH-COVERED MAGAZINE DESIGN FOR THE HSILS
FLOOR PLAN

NOTES:
1. DATUM ELEVATION 1'-0" TAKEN AS TOP OF TRENCH WALL AND TOP OF TRENCH COVER. FOR ACTUAL ELEVATION SEE CIVIL DRAWINGS.
2. FOR CONTINUATION OF BUILDING DRAINS SEE CIVIL DRAWINGS.
NOTE: FOR ALTERNATE EARTH FILL DRAINAGE SYSTEM SEE DWG. S-13.
FLOOR PLAN

Notes:
1. PROVIDE CONSTRUCTION JOINT MSW-WAY ALONG THE LENGTH OF SIDE PLATFORM RETAINING WALLS. SEE DETAIL, THIS DRAWING.
2. FOR MAGAZINE FLOOR PLAN SEE DRAWING S-2.

Scale: 1" = 1'-0"

DETAIL

Scale: 1" = 1'-0"

CONSTRUCTION JOINT IN PLATFORM RETAINING WALL

EXPANSION JOINT IN PLATFORM SLAB-ON-GRADE

ELEVATION

Notes:
1. FOR RETAINING WALL ELEVATION SEE DWG. S-8.
2. STAIR RAILING NOT SHOWN FOR CLARITY.
3. FOR ELECTRICAL BONDING CONSTRUCTION AND EXPANSION JOINTS, SEE DWG. E-4.

Scale: 1" = 1'-0"
ROOF PLAN

SCALE 1"=4'-0"

NOTED:
1. ALL REINFORCING BARS SHALL BE SPACED AT 10" O.C.
   UNLESS NOTED OTHERWISE. SEE "TYPICAL SPACING OF
   ROOF REINFORCEMENT" THIS DRAWING.
2. STAGGERED SPLICES SHOWN THUS
   (R) SPlice
   2. ALTERNATE SPlice

TYPICAL SPACING OF
ROOF REINFORCEMENT
N.T.S.

FILE NO. HSILS100064
NOTES:
1. FOR ROOF INFORMATION NOT SHOWN SEE SECTION B THIS DRAWING.
2. FOR FLOOR SLAB REINF. SEE DRAWING S–3.

SECTION
(TYPICAL FOR WALL & MIDDLE STRIPS)
PARTIAL PLAN A" SLIDING DOORS

NOTES:
1. DOOR #1 AND DOOR #3 ARE OPPOSITE HAND.
   SEE DWG. 5-2 FOR ORIENTATION.
2. ANGLES AROUND OPENINGS OMITTED FOR CLARITY.
3. FOR DOOR DETAILS SEE DWG. 5-18.
4. FOR DOOR TRACTION ASSEMBLY SEE DWG. M-1, M-2 AND M-3.
5. FOR DOOR SHOCK ABSORBERS OPERATING REQUIREMENTS
   SEE DWG. S-23.
6. FOR BRUSH WEATHERSTRIP AROUND DOOR SEE SECTION B-2.

PARTIAL FRONT WALL ELEVATION

ELEVATION

SECTION
GENERAL NOTES
1. ALL UNSPECIFIED FILLER WELD SIZES TO BE MINIMUM IN ACCORDANCE WITH AWS D1.1. ALL WELDS MARKED "CP" SHALL BE COMPLETE Penetration in accordance with AWS PREQUALIFIED WELD DETAILS.
2. DOOR FILL MATERIAL SHALL BE OF REFRACTORY CONCRETE HAVING A DENSITY OF 55 TO 78 LB/FT3.
3. RAISED EXPANDED METAL SHEET TO CAUGE 1.5" J.W. WITH 4.375" PITCH, WELDED TO THE DOOR INTERIOR STS AT 6" GCC.
4. HIGH SECURITY INTERNAL LOCKING SYSTEM (HSILS), BALANCED MAGNETIC SWITCH (BMS) AND INTRUSION DETECTION SYSTEM (IDS) WILL BE GOVERNMENT FURNISHED AND GOVERNMENT INSTALLED EXCEPT HSILS LOCK BOXOUT AND BMS AND IDS ENCLOSURES WHICH SHALL BE CONTRACTOR INSTALLED.
5. COORDINATE INSTALLATION OF GOVERNMENT FURNISHED ITEMS PRIOR TO PLACEMENT OF REFRACTORY CONCRETE FILL.
PARTIAL FRONT ELEVATION OF DOOR
NOS. 1, 2, 4, & 5
W/INACTIVE HSILS LOCKING SYSTEM

NOTE: FOR INFORMATION NOT SHOWN
SEE ENGS. S-18

NOTE: DOOR NOS. 4 & 5 OPPOSITE HAND
DOOR RAIL SUPPORT BEAM DETAILS

SCALE: 1/2" = 1'-0"

TYPE 1

NOTE: LOCATION OF RAIL BEAM TO BE VERIFIED BY DOOR MANUF.

TYPE 2

NOTE: FOR DETAILS NOT SHOWN SEE TYPE 2 SUPPORT BEAM.

TYPE 3

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

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

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

ADDL. ANCHOR BOLT AT TYPE 2 ONLY

FILE NO. HSB02204E
DETAIL
SCALE: W=1'-0" C=1'-0"

DETAIL
SCALE: W=1'-0" C=1'-0"

DETAIL
SCALE: W=1'-0" C=1'-0"

NOTES:
1. VENTILATOR SHALL BE DESIGNED BY THE CONTRACTOR FOR A SUSTAINED WIND SPEED OF 132 M.P.H.
2. REFER TO DRAWING E-5 FOR LIGHTNING ROD LOCATION ON VENTILATOR.
3. ALL MOVING PARTS SHALL BE NON-SPARKING TYPE.
4. GRAVITY VENTILATOR SHALL BE INTRINSICALLY SAFE.
1. Use door centering bolts to position the trolley pin & base for a balanced door.
2. Weld trolley mounting base to guide angles and spacer bars after balancing door.
3. Contractor may submit alternate trolleys & mounts for approval.
FLOOR PLAN
SCALE 1"=1'-0"
### POWER PANEL P1 SCHEDULE

**227/480 VOLT 3 PHASE 4 WIRE SN. 100 A BUS AND GND. BUS**

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**NOTE:**
- NEMA BEAM SPREAD CONFIGURATION SHALL BE AS SPECIFIED AND SHALL BE IN ACCORDANCE WITH I.E.S. DEFINITIONS.

**LUMINARIES REQUIREMENTS**
1. HOUSING - BONDED ALUMINUM.
2. REFLECTOR - ANODIZED OR MILITARY ALUMINUM.
3. DOOR - WROUGHT ALUMINUM WITH GLASS AND CAPTIVE SCREWS.
4. INTERNAL WIRING BOLTS.
5. STAINLESS STEEL BRIDGEPLATES.
6. FUSELINK SOW.
7. WINDOW 36" X 36".
8. UL "WET LABEL".
9. USE "WET LABEL".

**FIXTURE TYPE: B**
FLUORESCENT DETAIL

**TYPICAL GROUND BUS BAR MOUNTING DETAIL**
TWO GROUND CLAMPS REQUIRED PER BUS BAR.