

REFERENCES:

THE FOLLOWING DOCUMENTS HAVE BEEN UTILIZED IN THE DEVELOPMENT OF THIS STANDARD.

1. DOD 6055.9 STD, 'AMMUNITION AND EXPLOSIVES SAFETY STANDARDS'.
2. TM 5-1300, 'STRUCTURES TO RESIST THE EFFECTS OF ACCIDENTAL EXPLOSIONS'.
3. AR 190-11, 'PHYSICAL SECURITY OF ARMS, AMMUNITION AND EXPLOSIVES'.
4. DOD 5100.76-M, 'PHYSICAL SECURITY OF SENSITIVE CONVENTIONAL ARMS, AMMUNITION AND EXPLOSIVES'.
5. AMCR 385-100, 'SAFETY MANUAL'.

NOTES:

1. MAGAZINE SEPARATION AND SAFETY DISTANCES ARE BASED ON A MAXIMUM STORAGE QUANTITY OF 425 POUNDS OF CLASS 1.1 HIGH EXPLOSIVE MATERIAL PER CUBICLE. IF LARGER QUANTITIES ARE TO BE STORED, GREATER DISTANCES MUST BE PROVIDED IN ACCORDANCE WITH REFERENCE 1.
2. EARTH COVERING OVER STRUCTURES AND EARTH SURFACES OF BARRICADES SHOULD BE GRASSED TO PREVENT SOIL EROSION. IN AREAS WHERE RAIN FALL IS INSUFFICIENT TO MAINTAIN GRASS COVER, AN APPROPRIATE METHOD OF SOIL STABILIZATION SHALL BE SUBSTITUTED.
3. IF THE 5' STRIP ALONG THE FRONT OF THE CUBICLES IS TO BE FLEXIBLE PAVEMENT, A 5'x5' CONCRETE PAD SHOULD BE CONSTRUCTED IN FRONT OF THE DOORWAY TO EACH CUBICLE.
4. THE PREFERRED ORIENTATION OF THE MAGAZINE IS WITH THE HEADWALL PARALLEL TO THE PREVAILING WINDS. THIS IS ESPECIALLY TRUE IN AREAS WHERE DRIFTING SNOW, SAND OR OTHER DEBRIS COULD BLOCK THE CUBICAL DOORWAYS.
5. A ROW MAY CONSIST OF ANY NUMBER OF CUBICLES. ROWS WITH 4 CUBICLES ARE DEPICTED HERE AS EXAMPLES ONLY.
6. THE GUARD HOUSE, PARKING SPACES, FENCES, ROADS, CULVERTS, SIDEWALKS AND GUTTERS ARE NOT PART OF THIS DESIGN. THEY ARE DEPICTED HERE TO IDENTIFY SITE FEATURES NORMALLY REQUIRED FOR AN AMMO STORAGE PROJECT.

MINIMUM DISTANCES FOR SITING (1)		
SYMBOL	AREA/FACILITY	SAFETY DISTANCE
A	INHABITED BLDG.	250'
B	INHABITED BLDG.	700'
C	CIV. TRAFFIC ROUTE (2)	150'
D	CIV. TRAFFIC ROUTE (2)	420'
E	INTRALINE - BARRICADED	70'
F	INTRALINE - UNBARRICADED	140'
G	MIL. AIRCRAFT PARKING (3)	240'
H	CIV. AIRCRAFT PARKING (2)	250'
I	CIV. AIRCRAFT PARKING (2)	700'
J	MIL. RUNWAY & TAXIWAY	140'
K	MIL. RUNWAY & TAXIWAY	420'
L	OPEN AIR PASSENGER ASSEMBLY/LOAD AREA (4)	1250'
M	ENCLOSED AIR PASSENGER ASSEMBLY/LOAD AREA	250'
N	ENCLOSED AIR PASSENGER ASSEMBLY/LOAD AREA	700'
O	OPEN RECREATION AREA (4)	1250'
P	ENCLOSED RECREATION AREA	250'
Q	ENCLOSED RECREATION AREA	700'
R	CIV. RUNWAY (2)	250'
S	CIV. RUNWAY (2)	700'
T	CIV. TAXIWAY (2)	150'
U	CIV. TAXIWAY (2)	420'

- (1) REFER TO REFERENCE 1, CHAPTER 9 FOR ADDITIONAL GUIDANCE.
- (2) INCLUDES JOINT MIL. & CIV. TRAFFIC.
- (3) BARRICADES ARE REQUIRED.
- (4) DISTANCE SHOWN IS REQUIRED TO PROTECT PERSONNEL IN THE OPEN FROM HAZARDOUS FRAGMENTS. REFER TO REFERENCE 1, CHAPTER 2, PARAGRAPH E. IF, UNDER CERTAIN SITING CONDITIONS, IT CAN BE SHOWN THAT FRAGMENTS WILL NOT PRESENT A HAZARD, REFER TO REFERENCE 1, TABLE 9-13.

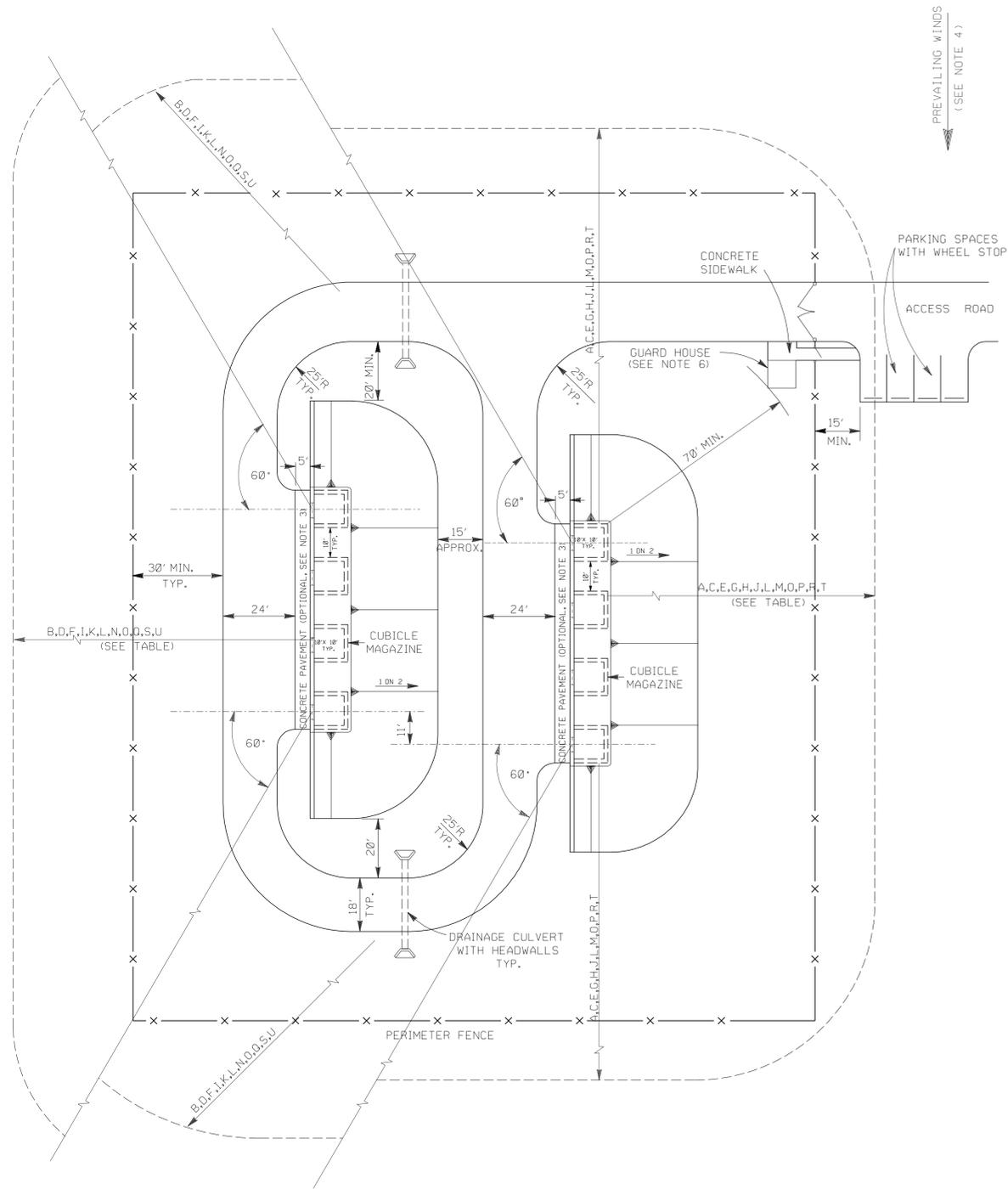
SYMBOL	DESCRIPTION	DATE	APPROVED

US ARMY ENGINEER DIVISION, HUNTSVILLE
CORPS OF ENGINEERS
HUNTSVILLE, ALABAMA

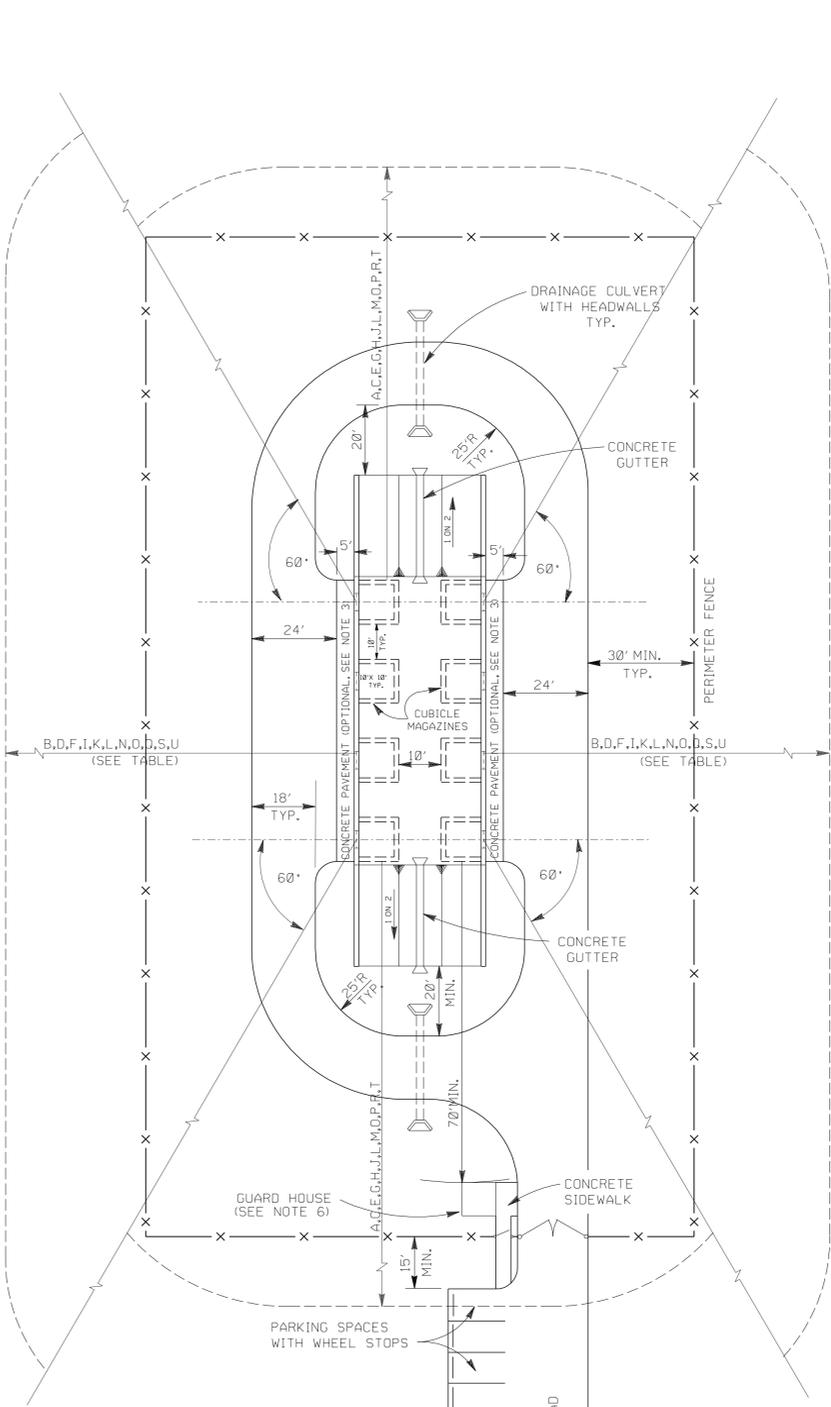
SITE ADAPT A/E : MAGAZINE, CONCRETE, CUBICLE, EARTH - COVERED

DWN. BY : LEQ CKD. BY : GRS
SITING PLANS

REVIEWED BY : CSA DATE : SHEET REFERENCE NUMBER : 1 DESIGN FILE NO. : 20201
APPROVED BY : DRAWING CODE : STD 422-15-01 SHEET 1 OF 1



EXAMPLE SITING PLAN
FRONT TO BACK



EXAMPLE SITING PLAN
BACK TO BACK

