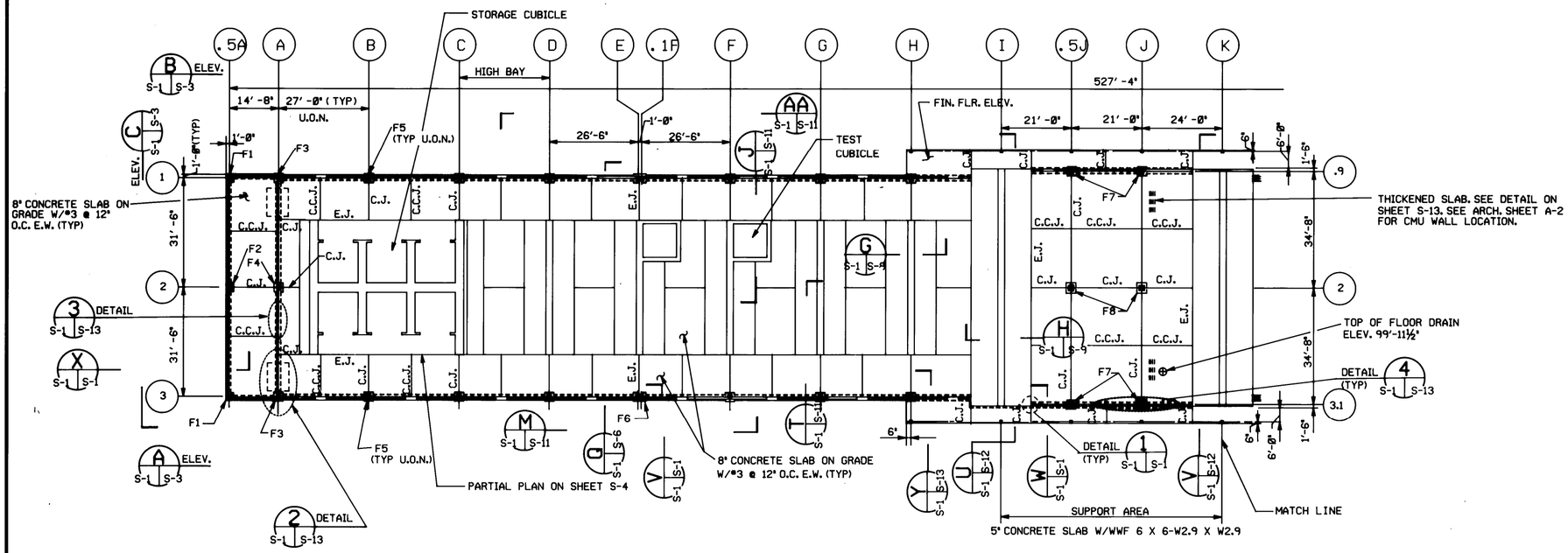
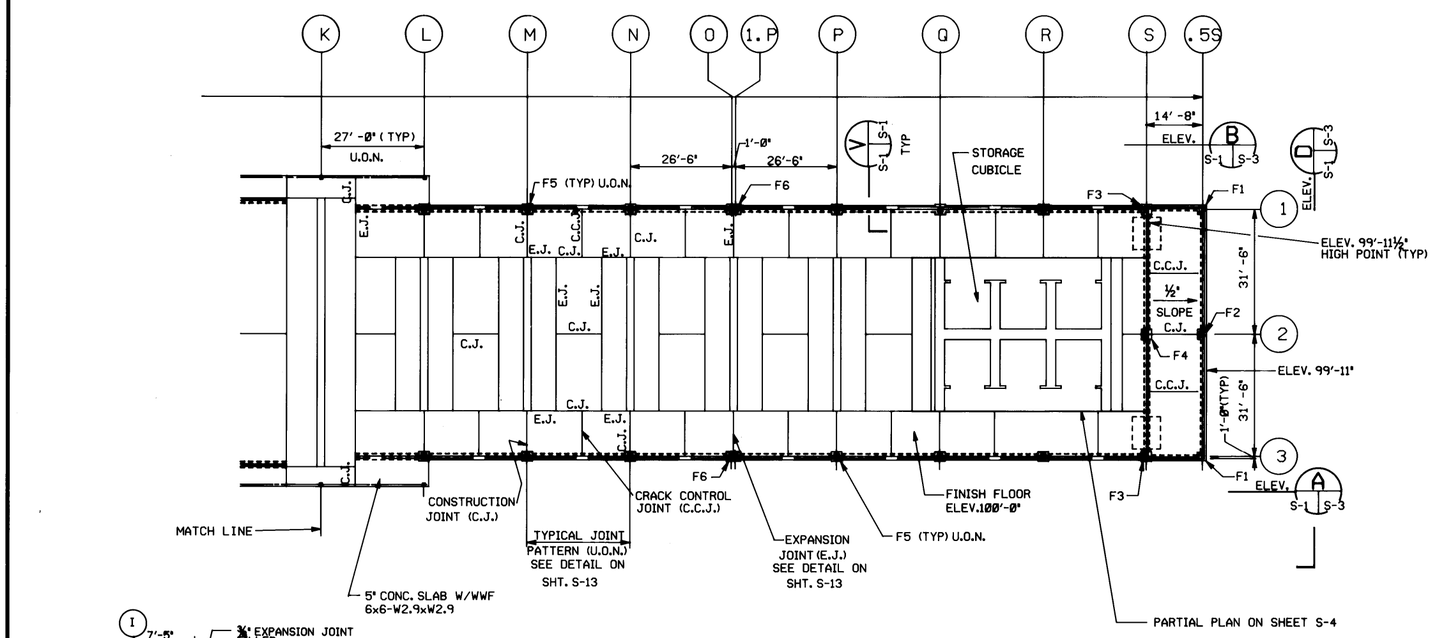
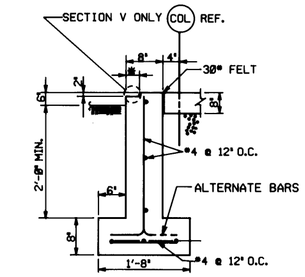




FLOOR AND FOUNDATION PLAN

SCALE: 1/16" = 1'-0"

FINISH FLOOR ELEV. 100'-0" U.O.N.



SECTION
NOT TO SCALE

TYPICAL GRADE BEAM U.O.N.

* DIMENSION TO SUIT METAL SANDWICH PANEL THICKNESS MINUS ½"

NOTES

A.GENERAL:

1.DESIGN LOADS

ROOF LIVE	30 PSF
DEAD	15 PSF
SLABS ON GRADE	125 PSF
FORKLIFT LOADS	6000 LBS.CAPACITY

2.WIND LOADS BASED ON A BASIC WIND SPEED OF 90 MILES PER HOUR, EXPOSURE C, IN ACCORDANCE WITH ANSI. A58.1-1982

3.SEISMIC ZONE 4 — Z=1.0, CS=0.14, K=1.00, I=1.25

4.THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL OPENINGS,SLEEVES,ETC.,WITH SHOP DRAWNGS OF THE EQUIPMENT TO BE INSTALLED.

5.STRUCTURAL DRAWINGS ARE REFERENCED TO A FIN.FL.EL.OF 100'-0" FOR EACH BUILDING. FOR TRUE SITE ELEVATION OF EACH BUILDING, SEE SITE ADAPTED GRADING AND DRAINAGE PLANS.

B.CONCRETE:

MATERIAL STRENGTHS

1.CONCRETE(MIN.28 DAY COMPRESSIVE STRENGTH)

PRECAST CONCRETE	f'c=5000 PSI
BLAST WALLS AND FOUNDATIONS	f'c=4000 PSI
ALL CONCRETE NOT OTHERWISE SPECIFIED	f'c=3000 PSI
MODULUS OF RUPTURE, APPLIES TO 8" SLABS ON GRADE ONLY	fr=650 PSI
REINFORCEMENT	
STIRRUPS,TIES AND LACING	fy=40,000 PSI MIN.
ALL OTHER	fy=60,000 PSI

2.UNLESS OTHERWISE NOTED,PROVIDE CONCRETE PROTECTION FOR ALL REINFORCING IN ACCORDANCE WITH PARAGRAPH 7.7 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE(ACI-318-77).

3.ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH SP-66 ACI DETAILING MANUAL-1980. MINIMUM SPLICE LENGTHS AND BAR EMBEDMENT LENGTHS SHALL BE AS TABULATED THEREIN.
- a."TOP BARS"ARE HORIZONTAL BARS WHICH HAVE MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BAR(INCLUDES ALL HORIZONTAL WALL REINFORCEMENT).
- b."OTHER BARS"INCLUDE ALL VERTICAL REINFORCEMENT AND ALL HORIZONTAL REINFORCEMENT WHICH HAVE LESS THAN 12 INCHES OF CONCRETE CAST BELOW THE BAR FOR WHICH BASIC TENSION LAP SPLICES IN NORMAL WEIGHT CONCRETE ARE APPLICABLE.
- c.UNLESS OTHERWISE SHOWN,ALL REINFORCEMENT SHALL BE TREATED AS TENSION REINFORCEMENT.
- d.THE TENSION DEVELOPMENT(EMBEDMENT)LENGTH,Ld OR Ldt,EQUALS A CLASS A SPLICE LENGTH.
- e.IF MORE THAN ONE HALF OF THE TENSION BARS ARE LAP SPLICED WITHIN THE REQUIRED LAP LENGTH,A CLASS C SPLICE SHALL BE USED,UNLESS OTHERWISE SHOWN. ALL OTHER TENSION SPLICES SHALL BE CLASS B.

4.UNLESS OTHERWISE SHOWN,REINFORCEMENT AT WALL CORNERS AND INTERSECTIONS SHALL BE IN ACCORDANCE WITH DETAILS SHOWN IN ACI 315-80 AND LAP SPLICES SHALL BE CLASS C.

5.UNLESS OTHERWISE NOTED,PROVIDE DOWELS TO MATCH VERTICAL AND HORIZONTAL REINFORCEMENT IN ALL WALLS AND SLABS.

6.COORDINATE LOCATION OF MECHANICAL PIPE AND ELECTRICAL CONDUIT SLEEVES AND OPENINGS. PRIOR APPROVAL BY THE CONTRACTING OFFICER REQUIRED FOR CUTTING AND BENDING OF REINFORCEMENT TO ACCOMMODATE SLEEVING AND IN NO CASE SHALL MAJOR REINFORCEMENT BE CUT OR BENT.

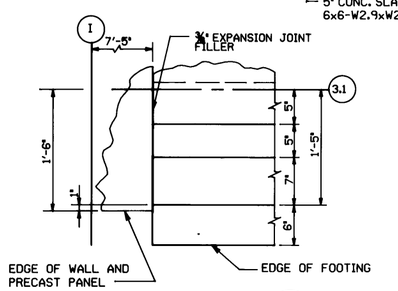
7.CONTINUOUS REINFORCING IN WALLS AND SLABS MAY BE SPLICED, AS REQUIRED,PROVIDING BARS ARE OF THE LONGEST PRACTICABLE LENGTH AND ALL SPLICES ARE SHOWN ON REINFORCING SHOP DRAWINGS,WHEREVER POSSIBLE. SPLICES SHAL BE STAGGERED. FOR BLAST WALLS, SPLICE REINFORCING IN ACCORDANCE WITH DETAILS ON SHEET 10.

8.CONSTRUCTION JOINTS AND CRACK CONTROL JOINTS ARE SHOWN ON THE DRAWINGS. FOR LOCATION OF CONSTRUCTION JOINTS OF BLAST WALLS, SEE POURING SEQUENCE ON SHEET 10.

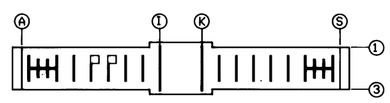
9.PROVIDE 3/4" CHAMFER ON EXPOSED EDGES OF CONCRETE.

10.PROVIDE ADEQUATE INSPECTION PANELS IN WALL FORMING TO FACILITATE CONCRETE PLACEMENT,TO INSURE THAT NO VOIDS OCCUR AND THAT ADEQUATE CONSOLIDATION OCCURS.

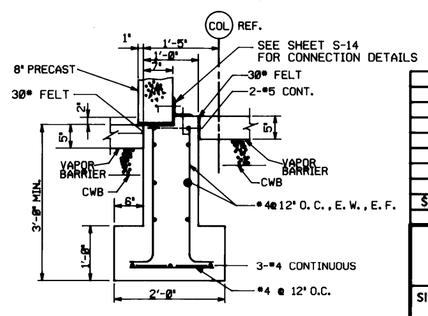
CONT.ON SHT S-2



DETAIL
NOT TO SCALE



KEY PLAN



SECTION
NOT TO SCALE

TYPICAL SUPPORT AREA GRADE BEAM

Symbol	Description Revisions	Date	Approved

US ARMY ENGINEER DIVISION HUNTSVILLE
CORPS OF ENGINEERS
HUNTSVILLE, ALABAMA

Site adapt A/E :

US Army Corps of Engineers

STANDARD DESIGN
AMMUNITION SURVEILLANCE FACILITY
FLOOR AND FOUNDATION PLAN

Dwn. by : RDP | Ckd. by :
Reviewed by : | Date :
Approved by :
Drawing code : STD 216-12-02
Sheet reference number : S-1
Design file no. : | Rev.
Sheet of