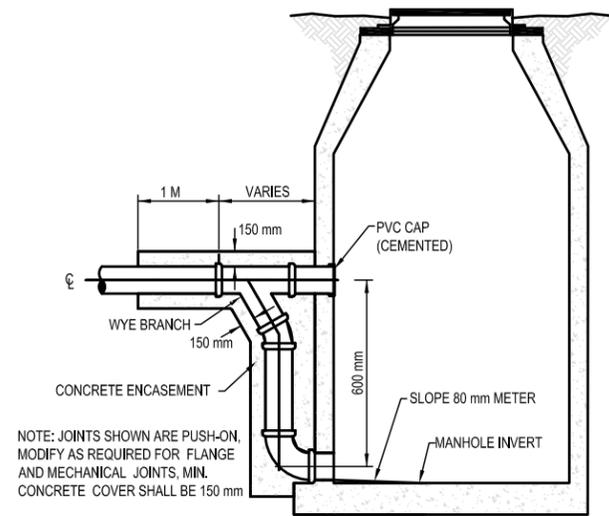
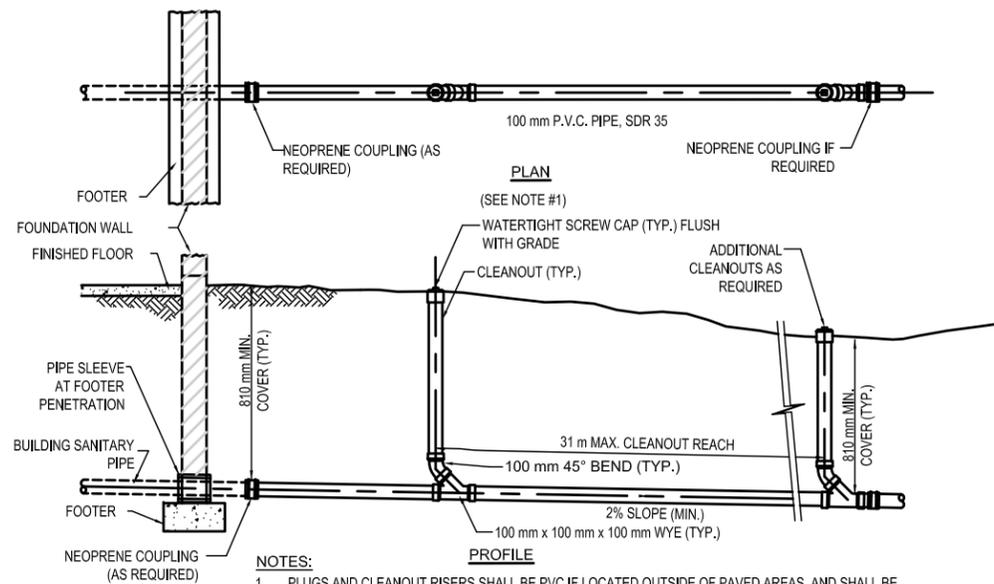


APPENDIX A1- Design Drawing for MQ1/9 Operation and Maintenance Facility

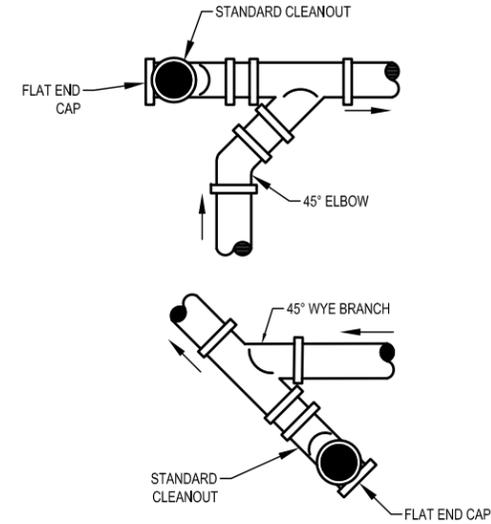


DROP MANHOLE CONNECTION
SCALE: N.T.S.

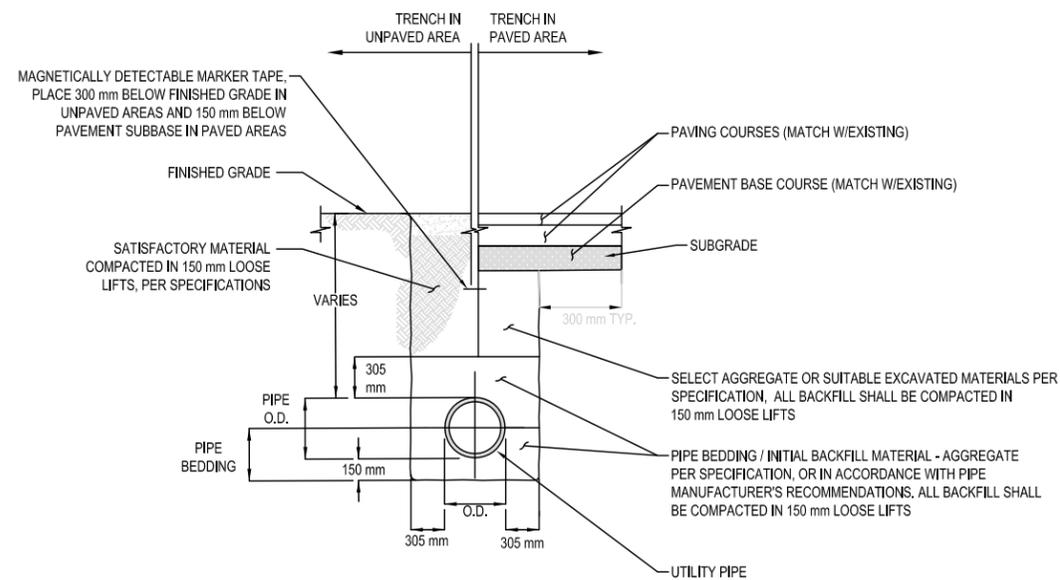


- NOTES:**
1. PLUGS AND CLEANOUT RISERS SHALL BE PVC IF LOCATED OUTSIDE OF PAVED AREAS, AND SHALL BE CAST IRON IF LOCATED WITHIN PAVED AREAS.
 2. A TEE MUST BE PROVIDED FOR AIR TESTING OF THE LATERAL.
 3. NO STORM WATER PIPING MAY BE CONNECTED TO THE LATERAL.
 4. PIPE PENETRATIONS THROUGH FOOTERS MUST BE SLEEVED WITH DUCTILE IRON PIPE.

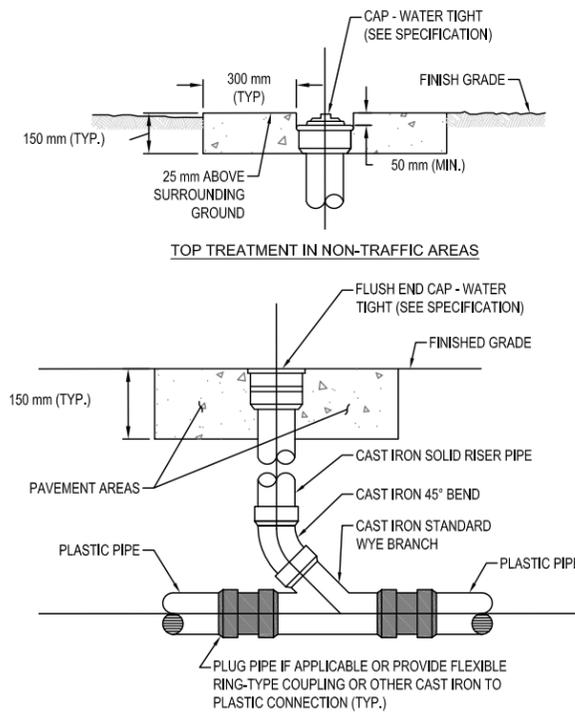
SANITARY SEWER BUILDING SERVICE LATERAL
SCALE: N.T.S.



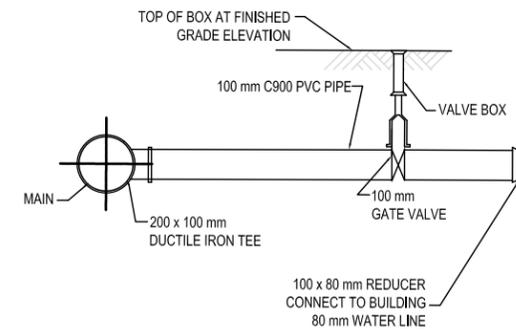
TYPICAL CLEANOUT ARRANGEMENTS AND WYE BRANCH
SCALE: N.T.S.



TYPICAL TRENCH AND BEDDING SANITARY SEWER/WATERLINE
SCALE: N.T.S.



SANITARY SEWER CLEANOUT TO GRADE
SCALE: N.T.S.



WATER SERVICE LINE
SCALE: N.T.S.



UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS.

DATE	
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SYMBOL	
DESCRIPTION	

DESIGNED BY:	DATE:	26 SEPT 2011
CHK:	SUBMITTED BY:	BAKER
DWN BY:	CHK BY:	JOP
FILE NO.:	AF114-C-0021.DWG	

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US Army Corps of Engineers
Middle East District

UMMC P-341 PROGRAM
K - SQUAD OPS MQ1/9
KANDAHAR AIR FIELD, AFGHANISTAN
CIVIL DETAILS

SHEET REFERENCE NUMBER:
K
C-502

DESIGN CRITERIA

- DC-1. GOVERNING BUILDING CODES:
 A. IBC 2009 INTERNATIONAL BUILDING CODE
 B. ASCE 7 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
 C. UFC-4-100-1 DOD MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS.
- DC-2. LOAD COMBINATIONS:
 A. LRFD - GRAVITY AND LATERAL.....IBC 1605.2.1
 B. ASD - GRAVITY AND LATERAL.....IBC 1605.3.1
- DC-3. GRAVITY DESIGN:
 A. DEAD LOAD
 1. ROOF
 a. BUILDINGS B, C, E, G, H, J, AND K.....710KG/M²
 b. BUILDING L.....950KG/M²
 2. FLOORS
 a. BUILDINGS B, C, E, G, H, J, AND K.....710KG/M²
 b. BUILDING L.....950KG/M²
 B. LIVE LOAD
 1. ROOF.....100KG/M²
 2. FLOORS.....390KG/M²
 C. SNOW LOAD
 1. GROUND SNOW Pg.....210KG/M²
 2. ROOF SNOW Pt.....145KG/M²
 3. IMPORTANCE FACTOR Is..... 1.0
 4. EXPOSURE FACTOR Ce..... 1.0
 5. THERMAL FACTOR Ct..... 1.0
 DRIFTING PER ASCE 7
 D. CONSTRUCTION LOADS
 1. NOT TO EXCEED THE DESIGN LIVE LOADS
- DC-4. WIND DESIGN:
 A. WIND DESIGN PROCEDURE.....METHOD 1 SIMPLIFIED
 B. ENCLOSURE CATEGORY ENCLOSED
 C. BASIC WIND SPEED (3 SEC. GUST)..... 145 KPH
 D. EXPOSURE..... C
 E. IMPORTANCE FACTOR Iw..... 1.0
- DC-5. SEISMIC DESIGN:
 A. SEISMIC ANALYSIS PROCEDURE.....EQUIVALENT
 B. LATERAL FORCE RESISTING SYSTEM.....CONC. SHEAR WALL
 C. OCCUPANCY CATEGORY..... II
 D. SITE CLASS..... D
 E. SEISMIC DESIGN CATEGORY..... D
 F. BUILDING SEISMIC IRREGULARITIES..... NONE
 G. IMPORTANCE FACTOR Ie..... 1.0
 H. REDUNDANCY FACTOR RHO..... 1.0
 I. PORTION OF SNOW LOAD INCLUDED..... 0%
 J. BUILDING PERIOD TA
 1. BUILDINGS B, E, G, H, J, AND K..... 0.13 SEC
 2. BUILDING C..... 0.22 SEC
 3. BUILDING L..... 0.16 SEC
 K. EARTHQUAKE FORCE BAGRAM KANDAHAR
 1. HORIZONTAL Eh=RHO*V... 0.19g 0.06g
 2. VERTICAL Ev=0.2*SDS... 0.19g 0.06g
 L. BASE SHEAR V=Cs*W..... 0.19g 0.06g
 M. Ss CHART VALUE..... 1.40g 0.30g
 N. S1 CHART VALUE..... 0.70g 0.16g
 O. SDS..... 0.93g 0.31g
 P. SD1..... 0.70g 0.23g
 Q. SITE COEFFICIENT Fa..... 1.00 1.56
 R. SITE COEFFICIENT Fv..... 1.50 2.16
 S. RESPONSE MODIFICATION FACTOR R.....5.0 5.0
 T. OVER STRENGTH FACTOR OMEGA..... 2.5 2.5
 U. DEFLECTION AMPLIFICATION FACTOR Cd..... 5.0 5.0
- DC-6. FOUNDATION DESIGN:
 A. SOIL BEARING PRESSURE
 1. SPREAD FOOTINGS..... VARIES-SEE FOOTING SCHEDULE
 2. CONTINUOUS FOOTINGS..... VARIES-SEE FOOTING SCHEDULE
 B. MINIMUM FROST COVER:
 1. BAGRAM..... 1.0M
 2. KANDAHAR..... 0.8M

GENERAL NOTES

- G-1. THE GENERAL CONTRACTOR SHALL:
 A. BECOME FAMILIAR WITH ALL PORTIONS OF THE CONTRACT DOCUMENTS AND INSURE THAT ALL SUBCONTRACTORS ARE FAMILIAR WITH THOSE PORTIONS PERTAINING TO THEIR AREA OF WORK. NO DEVIATIONS WILL BE ALLOWED UNLESS AGREED UPON BY ALL PARTIES IN WRITING PRIOR TO CONSTRUCTION OR FABRICATION.
 B. VERIFY ALL DIMENSIONS AND ELEVATIONS. COORDINATE ALL DOORS, WINDOWS, NON-BEARING INTERIOR AND EXTERIOR WALLS, ELEVATIONS, SLOPES, STAIRS, CURBS, DRAINS, RECESSES, DEPRESSIONS, RAILINGS, WATERPROOFING, FINISHES, CHAMFERS, KERFS, ETC.
 C. FIELD VERIFY ALL SITE CONDITIONS AND IMMEDIATELY NOTIFY THE CONTRACTING OFFICER REGARDING ACTUAL CONDITIONS AT THE SITE WHICH ARE NOT PER THE DRAWINGS.
 D. COORDINATE ALL WORK BETWEEN THE VARIOUS TRADES AND SUBCONTRACTORS. REPORT ANY MODIFICATIONS MADE TO THE STRUCTURAL PORTION OF THE BUILDING DURING CONSTRUCTION TO THE CONTRACTING OFFICER.
 E. BE SOLELY RESPONSIBLE FOR SAFETY AND PROTECTION IN AND AROUND THE JOB SITE AND/OR ADJACENT PROPERTIES.
 F. REPORT PROGRESS OF WORK TO CONTRACTING OFFICER.

- G-2. CONTRACT DOCUMENTS:
 A. REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE DRAWINGS.
 B. DETAILS, SECTIONS, AND NOTES SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO ALL SIMILAR SITUATIONS ELSEWHERE, UNLESS NOTED OR SHOWN OTHERWISE.
 C. THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
 D. THE STRUCTURAL DRAWINGS SHALL GOVERN THE STRUCTURAL WORK UNLESS NOTED OTHERWISE.
 E. INFORMATION ON DRAWINGS INDICATING EXISTING CONDITIONS IS BASED ON EXISTING BUILDING DOCUMENTS AND/OR FIELD OBSERVATIONS, BUT MAY NOT ACCURATELY PORTRAY EXISTING CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS SHOWN (DIMENSIONS, ELEVATIONS, ETC.) AND NOTIFY THE CONTRACTING OFFICER OF ANY DISCREPANCIES PRIOR TO FABRICATION OR INSTALLATION OF ANY STRUCTURAL COMPONENTS.

- G-3. BUILDING CODE COMPLIANCE:
 A. INSPECTION, TESTING, CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING BUILDING CODES AND REFERENCED STANDARDS. ASTM, ASCE, IBC, UFC, AND OTHER DESIGNATIONS SHALL BE AS AMENDED TO LATEST DATE UNLESS NOTED OTHERWISE.

- G-4. COORDINATION:
 A. COORDINATE AND VERIFY LOCATIONS, SIZES, WEIGHTS, AND INSTALLATION DETAILS OF MECHANICAL UNITS AND/OR OTHER EQUIPMENT OR DEVICES PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY SUPPORTING STRUCTURE. REPORT THIS INFORMATION TO THE CONTRACTING OFFICER FOR REVIEW. ADDITIONAL FRAMING MAY BE REQUIRED FOR THE PROPER SUPPORT OF SUCH UNITS AND/OR EQUIPMENT. LATERAL SUPPORT FOR THE EQUIPMENT SHALL BE PROVIDED BY EQUIPMENT INSTALLER.
 B. COORDINATE AND VERIFY ROOF, FLOOR, AND WALL OPENINGS REQUIRED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND/OR OTHER DRAWINGS PRIOR TO CONSTRUCTION. REPORT OPENINGS REQUIRED WHICH ARE NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS TO THE CONTRACTING OFFICER FOR REVIEW.
 C. COORDINATE ANY CONSTRUCTION SITUATION NOT COVERED BY THESE PLANS, GENERAL NOTES, OR SPECIFICATIONS WITH THE CONTRACTING OFFICER.

- G-5. CONSTRUCTION SEQUENCE, SHORING, AND BRACING REQUIREMENTS:
 A. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCE OF ALL STRUCTURAL CONSTRUCTION EXCEPT WHEN SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. HE SHALL PROVIDE TEMPORARY SHORING AND BRACING AS HIS METHOD OF CONSTRUCTION REQUIRES TO PROVIDE ADEQUATE VERTICAL AND LATERAL SUPPORT DURING ERECTION. THIS SHORING AND BRACING SHALL REMAIN IN PLACE UNTIL ALL PERMANENT MEMBERS ARE PLACED AND ALL FINAL CONNECTIONS ARE COMPLETED, INCLUDING ALL ROOF AND FLOOR ATTACHMENTS.
 B. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY BRACING, SHEETING, SHORING, ETC. REQUIRED TO ENSURE THE STRUCTURAL INTEGRITY AND/OR STABILITY OF ANY EXISTING BUILDINGS, SIDEWALKS, UTILITIES, ETC. DURING CONSTRUCTION. ALL SUCH SYSTEMS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER EMPLOYED BY THE CONTRACTOR.
 C. SHORING AND SUPPORTING FORM WORK FOR SUSPENDED CONCRETE SHALL REMAIN IN PLACE AND SHALL NOT BE REMOVED UNTIL THE STRUCTURAL MEMBERS HAVE ACQUIRED SUFFICIENT STRENGTH TO SAFELY SUPPORT THEIR OWN WEIGHT AND ANY ADDITIONAL CONSTRUCTION, STORAGE, AND/OR OTHER LOADS TO WHICH THEY MAY BE SUBJECTED. IN NO CASE SHALL THEY BE REMOVED PRIOR TO 7 DAYS. RE-SHORING SHALL BE IMMEDIATELY INSTALLED UPON REMOVAL OF SUCH FORMS AND SHALL REMAIN IN PLACE UNTIL 28 DAYS AFTER PLACING OF MATERIAL OR UNTIL MATERIAL HAS REACHED ITS 28 DAY DESIGN STRENGTH, WHICHEVER IS LONGER. DO NOT REMOVE LARGE AREAS OF SHORING BEFORE STARTING RE-SHORING PROCEDURES.
 D. NON-BEARING INTERIOR WALLS SHALL BE ADEQUATELY BRACED TO THE STRUCTURE ABOVE WITH ALLOWANCE FOR DEFLECTION OF THE STRUCTURE ABOVE AND/OR BELOW.
 E. BUILDING WALLS WHICH RETAIN EARTH MUST BE BRACED AT THE TOP. DO NOT BACKFILL UNLESS BRACING IS PROVIDED OR UNTIL THE COMPLETE FLOOR OR ROOF SYSTEM IS IN PLACE, TYPICAL, UNLESS NOTED OTHERWISE.

- G-6. OMISSIONS AND/OR CONFLICTS:
 A. OMISSIONS IN AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS INCLUDING DIMENSIONAL CONFLICTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTING OFFICER AND SHALL BE RESOLVED BY THE SAME BEFORE PROCEEDING WITH ANY WORK INVOLVED.
 B. IN CASE OF CONFLICTS IN THE STRUCTURAL WORK, THE MOST STRINGENT REQUIREMENTS, AS DETERMINED BY THE CONTRACTING OFFICER, SHALL GOVERN.

- G-7. MISCELLANEOUS:
 A. DURING AND AFTER CONSTRUCTION, THE CONTRACTOR AND/OR OWNER SHALL KEEP THE LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN.
 B. OBSERVATION VISITS TO THE SITE BY REPRESENTATIVES OF THE CONTRACTING OFFICER SHALL NOT BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
 C. STAIRS SHALL BE PER THE ARCHITECTURAL DRAWINGS.

- G-8. SUBMITTALS:
 A. THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE CONTRACTING OFFICER FOR REVIEW PRIOR TO FABRICATION, ERECTION, INSTALLATION, OR OTHERWISE BEING INCORPORATED INTO THE WORK.
 MATERIALS CERTIFICATION FOR ALL CONCRETE MATERIALS.
 MIX DESIGNS FOR EACH TYPE OF CONCRETE.
 REINFORCING STEEL SHOP DRAWINGS.
 STRUCTURAL STEEL SHOP DRAWINGS.
 WELDING PROCEDURES AND CERTIFICATIONS.
 LIGHT GAGE METAL SHOP DRAWINGS AND CALCULATIONS.*
 PRE-FAB LIGHT GAGE METAL TRUSS SHOP DRAWINGS AND CALCULATIONS.*
 * THESE SUBMITTALS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER THAT IS CURRENTLY REGISTERED.

- B. SHOP DRAWINGS MUST BE CHECKED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMISSION. THE CONTRACTOR'S STAMP OF APPROVAL SHALL CONSTITUTE CERTIFICATION THAT HE HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS, AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
 C. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DOCUMENTS FOR SUBMITTALS AS SHOP DRAWINGS IS PROHIBITED.
 D. CHANGES TO SHOP DRAWINGS THAT ARE RE-SUBMITTED MUST BE CLOUDED OR OTHERWISE CLEARLY INDICATE THAT A CHANGE HAS BEEN MADE TO PREVIOUSLY ISSUED AND REVIEWED SHOP DRAWINGS.
 E. THE CONTRACTOR IS TO PROVIDE THE CONTRACTING OFFICER WITH WRITTEN NOTICE OF DEVIATIONS OF ANY TYPE FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE NOTICE MUST BE RECEIVED PRIOR TO SHOP DRAWING SUBMITTAL. THE CONTRACTOR REMAINS LIABLE FOR ANY DEVIATION UNLESS REVIEWED BY AND ACCEPTED BY THE CONTRACTING OFFICER IN WRITING. PRIOR TO THE RECEIPT OF THE SHOP DRAWINGS.
 F. REQUESTS FOR SUBSTITUTIONS SHALL BE SUBMITTED TO THE CONTRACTING OFFICER IN WRITING. REASON(S) FOR AND COST DIFFERENTIALS OF THE REQUEST SHALL BE INCLUDED IN THE REQUESTS. SUBSTITUTIONS ARE NOT ALLOWED UNLESS APPROVED IN WRITING BY THE CONTRACTING OFFICER.

QUALITY ASSURANCE PLAN

- QA-1. QUALITY ASSURANCE:
 A. THE OWNER SHALL EMPLOY A QUALIFIED QUALITY ASSURANCE AGENCY (QAA) TO PROVIDE SPECIAL INSPECTIONS AND QUALITY ASSURANCE TESTING FOR THE PROJECT AS REQUIRED PER THE CONSTRUCTION DOCUMENTS AND CHAPTER 17 OF THE IBC.
 B. EACH SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
 C. THE SPECIAL INSPECTOR SHALL PROVIDE REPORTS OF INSPECTIONS PERFORMED TO THE OWNER, BUILDING OFFICIAL, AND THE CONTRACTING OFFICER. THE REPORT SHALL INDICATE WHETHER THE WORK WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
 D. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR. DISCREPANCIES NOT CORRECTED SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER.
 E. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTIONS OF ANY DISCREPANCIES NOTED SHALL BE PROVIDED.

- QA-2. CONTRACTOR'S RESPONSIBILITY:
 A. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND-OR-SEISMIC-FORCE-RESISTING SYSTEM, A DESIGNATED SEISMIC SYSTEM, OR A WIND-OR-SEISMIC-RESISTING ELEMENT OR COMPONENT LISTED IN THE TABLES OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
 1. ACKNOWLEDGEMENT OF AWARENESS OF THE REQUIREMENTS CONTAINED IN THE TABLES OF SPECIAL INSPECTIONS.
 2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND SPECIAL INSPECTION REQUIREMENTS
 3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF THE REPORTS.
 4. IDENTIFICATION AND QUALIFICATIONS OF PERSONS EXERCISING CONTROL AND THEIR POSITIONS IN THE ORGANIZATION.
 B. CORRECT ALL WORK FOUND TO BE DEFICIENT, AND RETEST, AT NO ADDITIONAL COST.
 C. COORDINATE ALL THE REQUIRED INSPECTIONS, TESTING, AND/OR STRUCTURAL OBSERVATIONS OF THE QUALITY ASSURANCE PLAN. DO NOT PROCEED WITH SUBSEQUENT WORK UNTIL THE REQUIRED INSPECTIONS, TESTING, AND/OR STRUCTURAL OBSERVATIONS HAVE BEEN PROVIDED. NOTIFY THE CONTRACTING OFFICER AT LEAST 72 HOURS PRIOR TO ANY REQUIRED OBSERVATIONS.
 D. PROVIDE COPIES OF THE DAILY INSPECTION REPORTS AND ALL TESTING RESULTS TO THE CONTRACTING OFFICER.

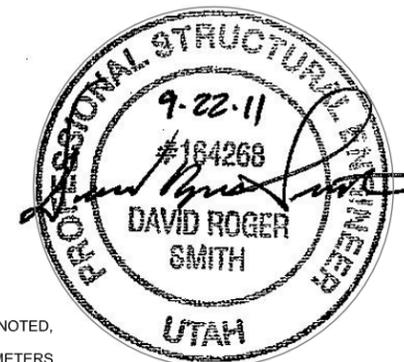
- QA-3. STRUCTURAL INSPECTIONS AND TESTING:
 A. INSPECTIONS AND TESTING PER SECTIONS 1704, 1705.3, 1705.4, 1707, AND 1708 OF THE IBC OF THE FOLLOWING MATERIALS SHALL BE PROVIDED.
 1. EARTHWORK. ALL COMPACTED STRUCTURAL FILL SHALL BE TESTED TO VERIFY SOIL GRADATION, LIFT THICKNESS, AND COMPACTION REQUIREMENTS. SEE THE SPECIFICATIONS AND FOUNDATION SECTION OF THE GENERAL STRUCTURAL NOTES FOR ACCEPTANCE CRITERIA. INSPECTION OF EARTHWORK SHALL BE PER TABLE 1704.7.
 2. CONCRETE STRENGTH. ALL CONCRETE SHALL BE TESTED TO VERIFY STRENGTH, SLUMP, UNIT WEIGHT, AIR CONTENT, AND TEMPERATURE. SEE THE SPECIFICATIONS AND CONCRETE SECTION OF THE GENERAL STRUCTURAL NOTES FOR TESTING CRITERIA AND FREQUENCY AND FOR ACCEPTANCE CRITERIA. INSPECTION OF CONCRETE SHALL BE PER TABLE 1704.4.
 3. STRUCTURAL STEEL. ALL WELDS SHALL BE TESTED FOR COMPLIANCE ACCORDING TO IBC TABLE 1704.3, AWS D1.1, AND THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE TESTING SHALL INCLUDE THE FOLLOWING:
 a. COMPLETE PENETRATION GROOVE WELDS SHALL BE TESTED 100 PERCENT EITHER BY ULTRASONIC TESTING OR BY RADIOGRAPHY.
 b. PARTIAL PENETRATION GROOVE WELDS SHALL BE TESTED EITHER BY ULTRASONIC TESTING OR RADIOGRAPHY. A MINIMUM OF 50% OF THESE WELDS SHALL BE TESTED.
 c. BASE METAL THICKER THAN 38mm WHEN SUBJECTED TO THROUGH THICKNESS WELD SHRINKAGE STRAINS, SHALL BE ULTRASONICALLY INSPECTED FOR DISCONTINUITIES DIRECTLY BEHIND SUCH WELDS AND 75mm ABOVE AND BELOW THE WELD AFTER JOINT ASSEMBLY COMPLETION.
 d. ANY MATERIAL DISCONTINUITIES SHALL BE ACCEPTED OR REJECTED ON THE BASIS OF THE DEFECT RATING IN ACCORDANCE WITH THE TESTING IN AWS

- D1.1 CHAPTER 6, EXCLUDING SECTIONS 6.1 THROUGH AND INCLUDING 6.6. ALL DEFICIENT WELDS SHALL BE CORRECTED AND RETESTED AT NO ADDITIONAL COST TO THE OWNER.
 INSPECTION OF STRUCTURAL STEEL SHALL BE PER TABLE 1704.3.
 4. POST-INSTALLED ANCHORS. ALL POST-INSTALLED ANCHORS, INCLUDING EXPANSION ANCHORS, ADHESIVE ANCHORS, AND LOW VELOCITY FASTENERS SHALL BE TESTED PER THE CODE EVALUATION REPORTS FOR THE ANCHORS.
 5. FABRICATORS. STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES WHICH ARE FABRICATED IN A SHOP SHALL BE FABRICATED IN A REGISTERED AND APPROVED FABRICATOR'S SHOP OR SHALL BE SPECIAL INSPECTED. REGISTRATION AND APPROVAL OF A SHOP IS BASED ON A SHOP REVIEW BY A SPECIAL INSPECTION AGENCY. APPROVED FABRICATOR'S SHALL SUBMIT A CERTIFICATE OF COMPLIANCE AT THE CONCLUSION OF THEIR FABRICATION.

- QA-4. STRUCTURAL OBSERVATIONS:
 A. AS REQUIRED BY SECTION 1709.2 AND 1709.3 OF THE IBC, THE OWNER SHALL EMPLOY A PROFESSIONAL ENGINEER TO PERFORM STRUCTURAL OBSERVATIONS AT SIGNIFICANT STAGES OF CONSTRUCTION FOR GENERAL CONFORMANCE TO THE CONSTRUCTION DOCUMENTS.
 B. COPIES OF OBSERVATION REPORTS SHALL BE DISTRIBUTED TO THE CONTRACTING OFFICER.
 C. NOTIFY THE CONTRACTING OFFICER 72 HOURS PRIOR TO THE FOLLOWING:
 1. PLACING CONCRETE IN ANY FOOTING.
 2. CLOSING ANY WALL FORM.
 3. PLACING CONCRETE IN ANY COLUMN, BEAM, OR SUSPENDED SLAB.

FOUNDATION NOTES

- F-1 FOUNDATIONS HAVE BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CRITERIA ESTABLISHED BY FIELD EXPLORATION AND THE REPORT GENERATED THERE FROM.
 F-2 THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL GEOTECHNICAL ENGINEER TO OBSERVE THE EXCAVATIONS AND VERIFY THAT THE MATERIALS ON WHICH FOUNDATIONS BEAR HAVE A BEARING CAPACITY EQUAL TO OR GREATER THAN THE MINIMUM BEARING CAPACITY NOTED IN THE DESIGN CRITERIA SECTION OF THESE GENERAL NOTES. THE GEOTECHNICAL ENGINEER SHALL MAKE RECOMMENDATIONS AS TO HOW TO INCREASE THE BEARING CAPACITY TO MEET THIS MINIMUM BEARING CAPACITY AS REQUIRED FOR ANY MATERIALS THAT DO NOT MEET THIS MINIMUM BEARING CAPACITY.
 F-3 THE CONTRACTOR SHALL INFORM THE CONTRACTING OFFICER IMMEDIATELY IF SOIL CONDITIONS VARY FROM THE CRITERIA ESTABLISHED IN THE REPORT PROVIDED. FOOTINGS AND FOUNDATIONS AS SHOWN ON THE DRAWINGS MAY NEED TO BE REVISED.
 F-4 FOUNDATIONS SHALL BE PLACED ON UNDISTURBED NATURAL SOIL OR ON ENGINEERED COMPACTED FILL WHICH CONFORMS TO 95% MAXIMUM DRY DENSITY PER ASTM D 1557, WITH A MAXIMUM LOOSE FILL LIFT OF 200mm.
 F-5 CONCRETE SLABS-ON-GRADE SHALL BEAR ON PROPERLY COMPACTED SUB-GRADE SOILS AS PER THE CRITERIA ESTABLISHED. THE SUB-BASE MATERIAL BENEATH THE SLAB-ON-GRADE SHALL CONFORM TO ASTM D 1241, TYPE 1, GRADATION B, AND SHALL BE COMPACTED IN ACCORDANCE WITH THE 95% MAXIMUM DRY DENSITY PER ASTM D 1557, WITH A MAXIMUM LOOSE FILL LIFT OF 200mm.
 F-6 ELEVATIONS SHOWN ON THE DRAWINGS AT WHICH FOUNDATIONS BEAR ARE APPROXIMATE AND MAY VARY TO SUIT SUBSURFACE SOIL CONDITIONS OR EXTERIOR GRADING REQUIREMENTS. STEP-IN-FOOTING LOCATIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED AND ADJUSTED AS REQUIRED SO THAT FOUNDATIONS BEAR ON MATERIAL WITH AT LEAST THE CAPACITY NOTED ABOVE, AND SUCH THAT ALL EXTERIOR FOOTINGS BEAR BELOW THE EFFECTS OF FROST.
 F-7 PRIOR TO PLACING CONCRETE, ANY WATER PRESENT SHALL BE PUMPED OUT FROM THE BOTTOM OF EXCAVATIONS.
 F-8 BACKFILLING AGAINST WALLS SHALL NOT BE DONE UNTIL THE SLABS AT THE TOP AND BOTTOM OF THE WALL HAVE BEEN PLACED OR ADEQUATE SHORING HAS BEEN PROVIDED. WALLS AND GRADE BEAMS HAVING BACKFILL AGAINST BOTH SIDES SHALL HAVE BACKFILL PLACED ON BOTH SIDES SIMULTANEOUSLY.
 F-9 OPERABLE EQUIPMENT WITH WEIGHT GREATER THAN THE DESIGN SURCHARGE MUST MAINTAIN A SAFE HORIZONTAL CLEAR DISTANCE FROM BASEMENT AND RETAINING WALLS. A SAFE HORIZONTAL CLEAR DISTANCE IS DEFINED AS THE DISTANCE FROM THE BASE OF THE RETAINING WALL TO THE TOP OF FINISHED GRADE. DESIGN SURCHARGE EQUALS 4.8kN/m².



NO.	DATE	REV.

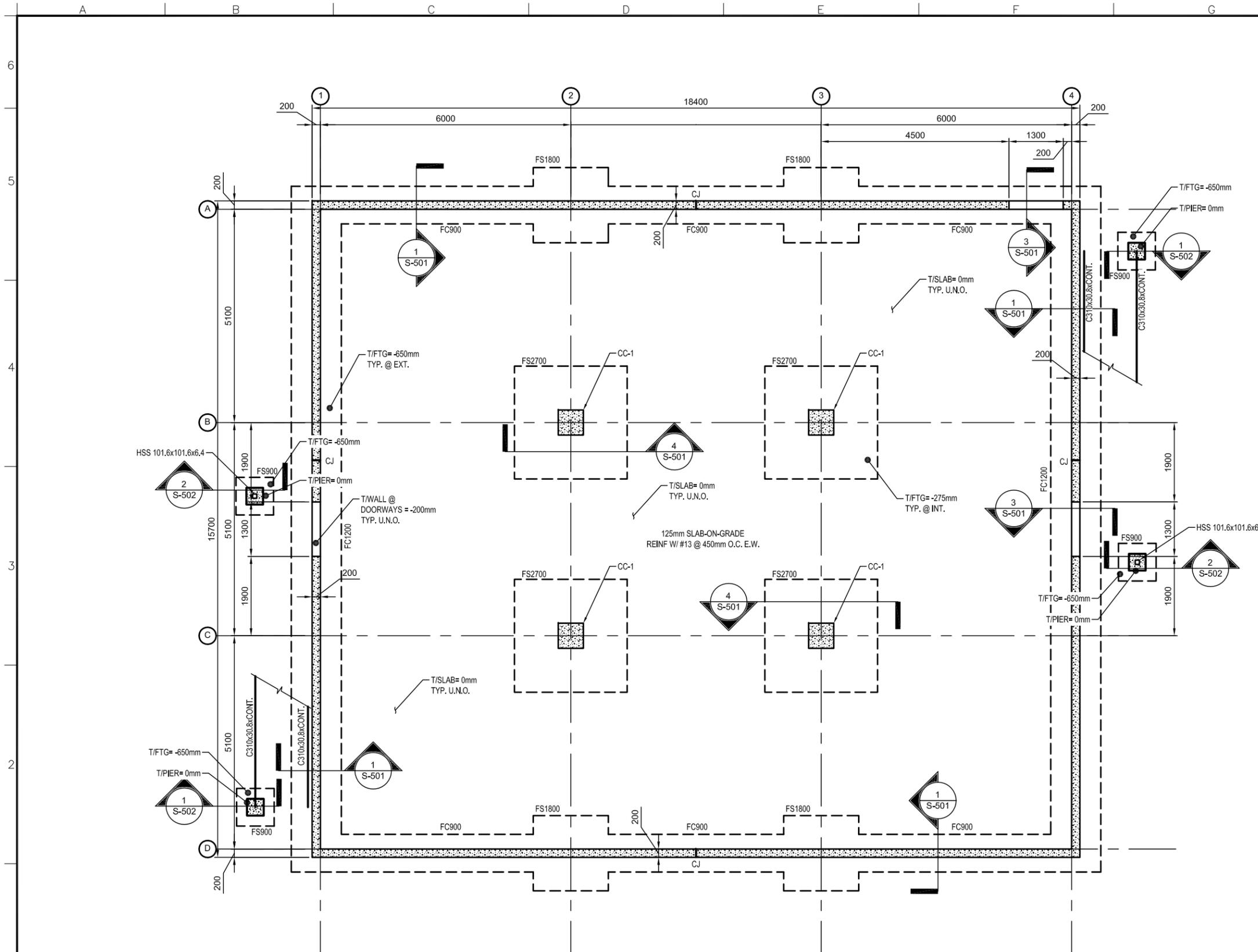
NO.	SYMBOL	DESCRIPTION

DESIGNED BY: DRS
 CHECKED BY: GDF
 DATE: 26 SEPT 2011
 SUBMITTED BY: BAKER
 FILE NO.: AF-1346-S01-GRD.DWG
 US Army Corps of Engineers
 Middle East District

UMMC P-341 PROGRAM
 K - SQUAD OPS MQ1/9
 KANDAHAR AIR FIELD, AFGHANISTAN
 STRUCTURAL GENERAL NOTES

SHEET REFERENCE NUMBER:
K S-001

9/22/2011 11:09 AM



1 FOUNDATION PLAN
S-101 SCALE: 1:100



UNLESS OTHERWISE NOTED,
LINEAR DIMENSIONS
SHOWN ARE IN MILLIMETERS.

PLAN NOTES

1. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. SEE SHEET S-601 FOR FOOTING SCHEDULE.
3. SEE SHEET S-501 FOR FOOTING DETAILS.
4. SEE DETAILS 17, 18, & 19 / S-501 FOR SLAB JOINT LAYOUT, SLAB CONSTRUCTION JOINTS, AND SLAB CONTROL JOINTS, RESPECTIVELY.
5. SEE CIVIL SHEETS FOR ELEVATION DATUM
6. SEE GENERAL NOTES FOR CONC. WALL REINF. TYP.
7. CJ INDICATES CONTROL JOINT IN WALLS SEE DETAIL 9/S-502.

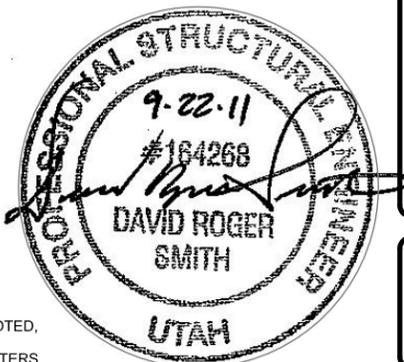


NO.	DATE	DESCRIPTION

DESIGNED BY: DRS	DATE: 26 SEPT 2011
DWN BY: REM	SUBMITTED BY: BAKER
CHK BY: GDF	FILE NO.: AF134AS-10/PNDWG

Michael Baker Corp.
15188 Moon Township, PA 15108
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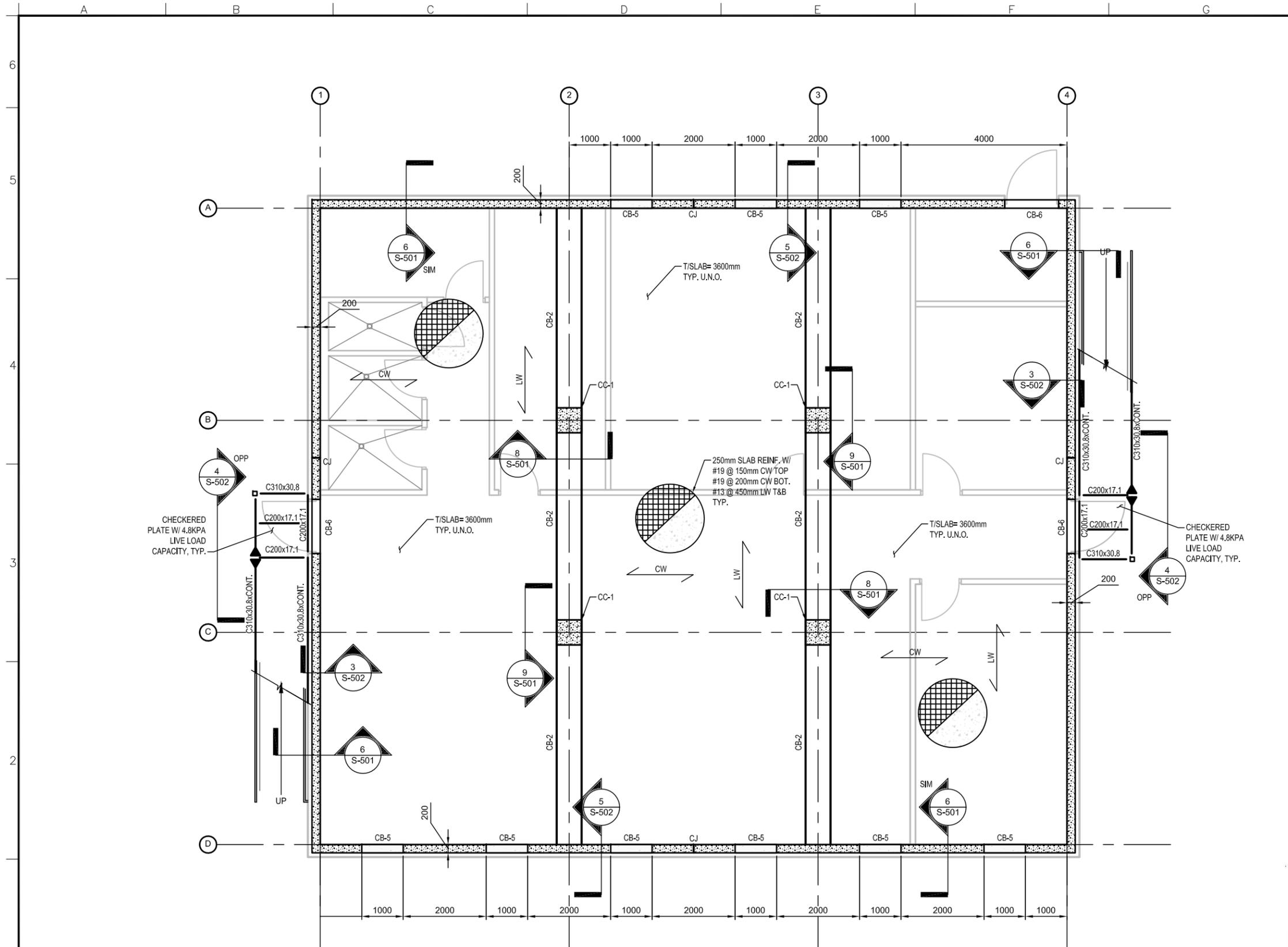
US Army Corps of Engineers
Middle East District



UMMC P-341 PROGRAM
K - SQUAD OPS MQ1/9
KANDAHAR AIR FIELD, AFGHANISTAN
FOUNDATION PLAN

SHEET REFERENCE NUMBER:
K S-101

9/22/2011 11:09 AM

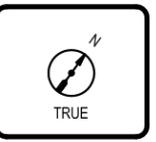


1 FLOOR FRAMING PLAN
S-102 SCALE: 1:100



PLAN NOTES

1. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. SEE SHEET S-601 FOR CONCRETE BEAM AND COLUMN SCHEDULES.
3. SEE SHEET S-501 FOR FLOOR FRAMING DETAILS.
4. SEE DETAIL 10/S-501 FOR FLOOR AND/OR ROOF PENETRATIONS.
5. SEE DETAIL 15/S-501 FOR WALL PENETRATIONS.
6. SEE GENERAL NOTES FOR CONC. WALL REINF. TYP.
7. CJ INDICATES CONTROL JOINT IN WALLS SEE DETAIL 9/S-502.

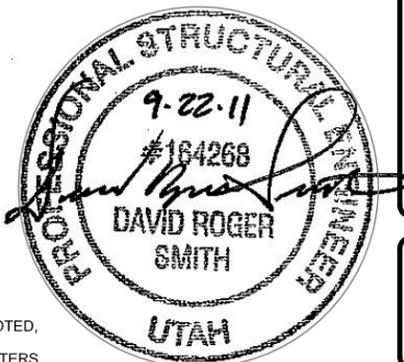


NO.	DATE	DESCRIPTION

DESIGNED BY: DRS
CHECKED BY: REM
DATE: 26 SEPT 2011
SUBMITTED BY: BAKER
FILE NO.: AF134AS-105PNDWG

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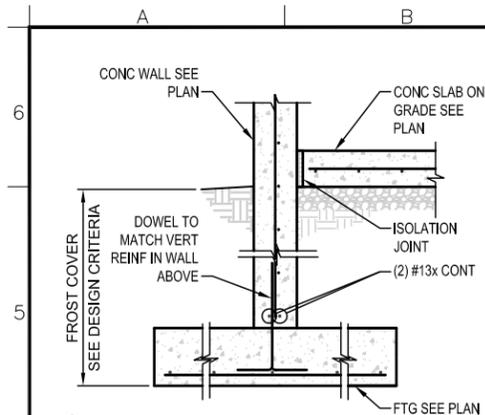
US Army Corps of Engineers
Middle East District



UMMC P-341 PROGRAM
K - SQUAD OPS MQ1/9
KANDAHAR AIR FIELD, AFGHANISTAN
FLOOR FRAMING PLAN

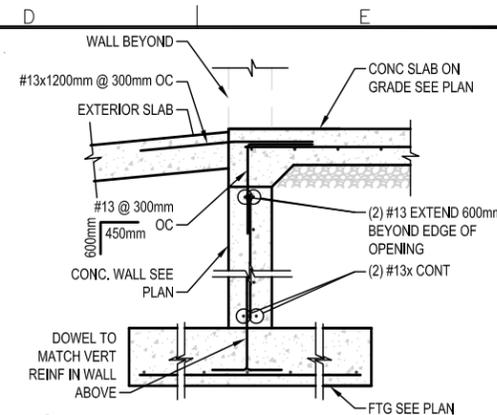
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S-102

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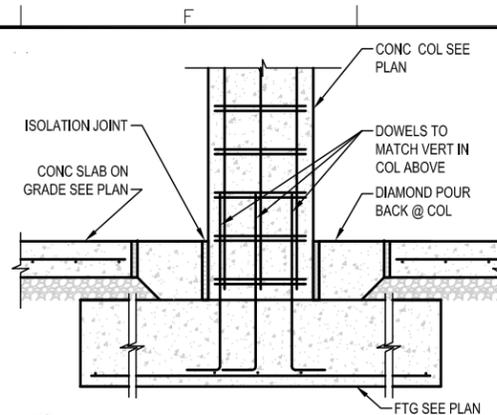


1 FOUNDATION DETAIL
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2 NOT USED
S-501 SCALE: NTS

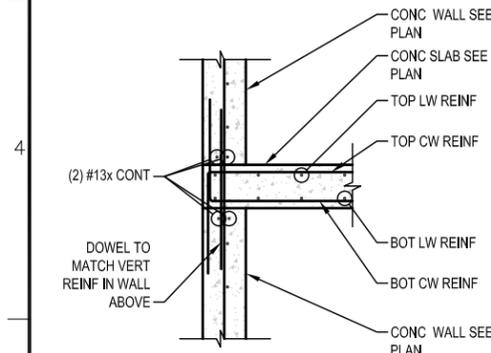


3 FOUNDATION DETAIL
S-501 SCALE: NTS



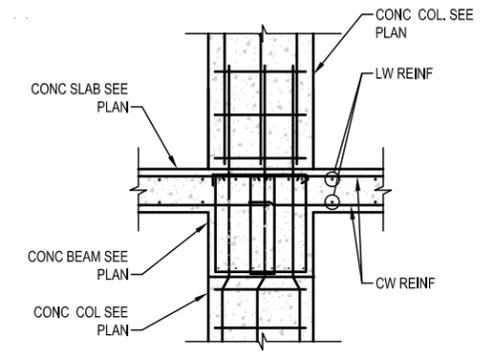
4 FOUNDATION DETAIL
S-501 SCALE: NTS

5 NOT USED
S-501 SCALE: NTS

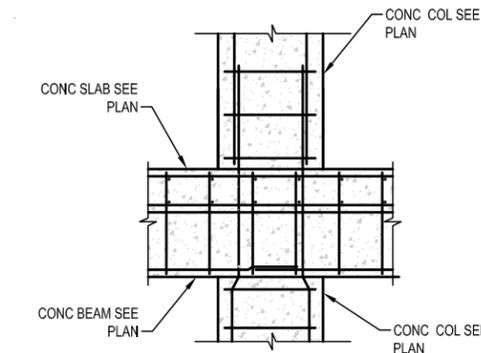


6 FLOOR FRAMING DETAIL
S-501 SCALE: NTS

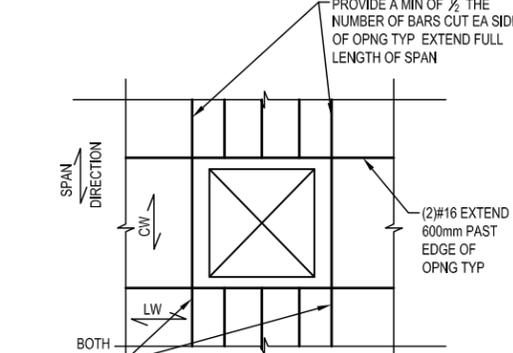
7 NOT USED
S-501 SCALE: NTS



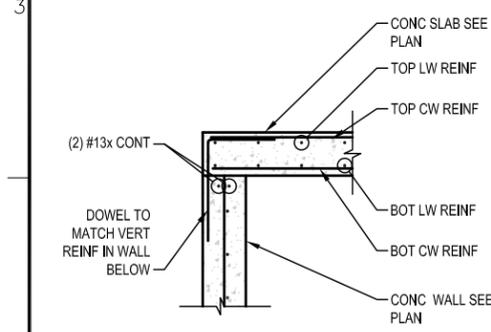
8 FLOOR FRAMING DETAIL
S-501 SCALE: NTS



9 FLOOR FRAMING DETAIL
S-501 SCALE: NTS

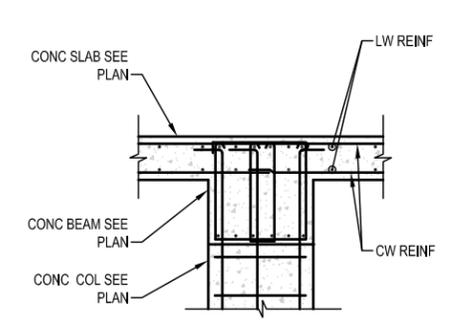


10 ROOF/FLOOR OPNG. DTL.
S-501 SCALE: NTS

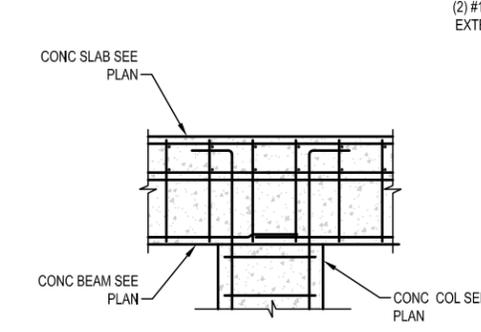


11 ROOF FRAMING DETAIL
S-501 SCALE: NTS

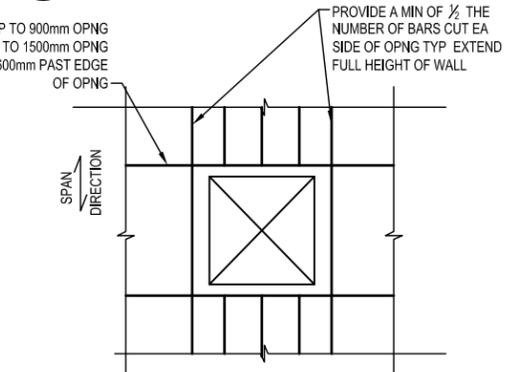
12 NOT USED
S-501 SCALE: NTS



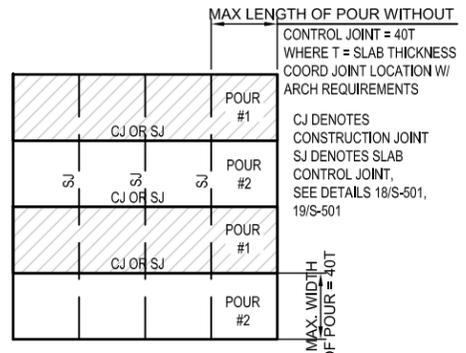
13 ROOF FRAMING DETAIL
S-501 SCALE: NTS



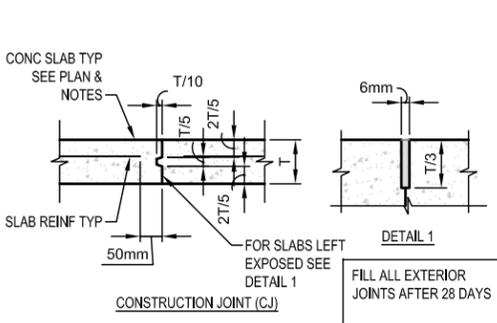
14 ROOF FRAMING DETAIL
S-501 SCALE: NTS



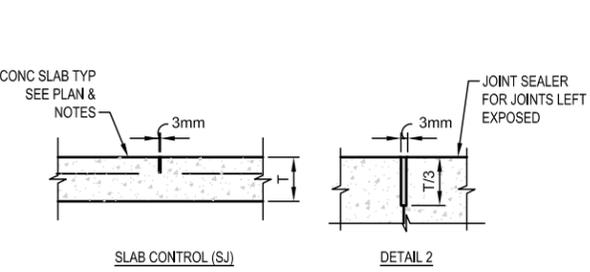
15 WALL OPNG. DTL.
S-501 SCALE: NTS



17 SLAB JOINT LAYOUT
S-501 SCALE: NTS

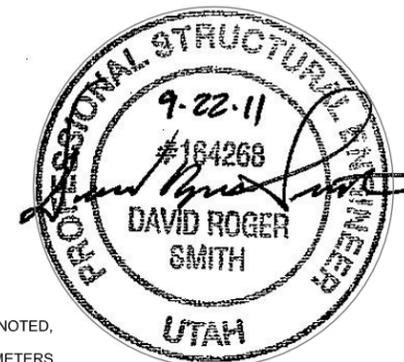


18 CONSTRUCTION JOINT
S-501 SCALE: NTS



19 CONTROL JOINT
S-501 SCALE: NTS

UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS.



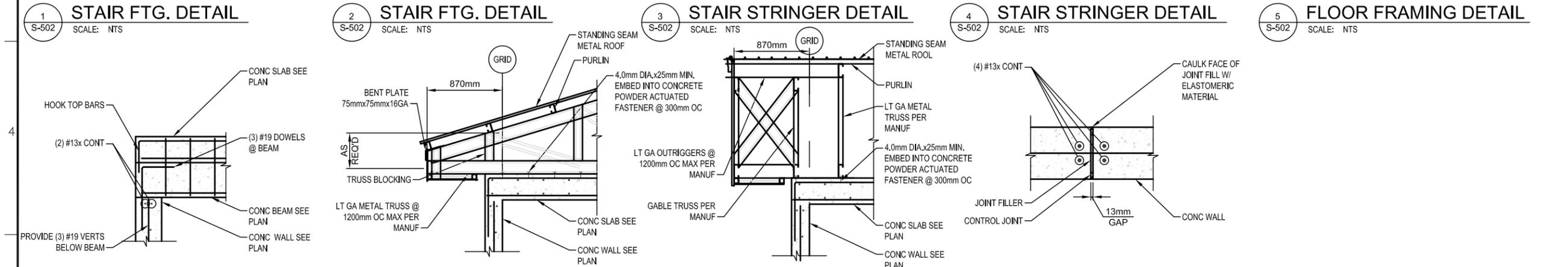
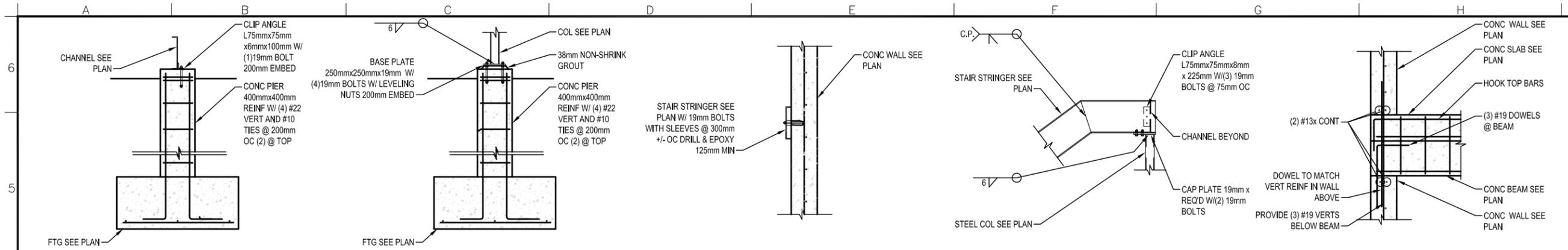
NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

DESIGNED BY:	DATE:	26 SEPT 2011
DRS	SUBMITTED BY:	BAKER
DWN BY:	REB	BAKER
CHK BY:	GDF	AF1134AS-501.DWG
Michael Baker Corp. 100 Alameda Drive Moon Township, PA 15108 www.mbakercorp.com		
US Army Corps of Engineers Middle East District		

UMMC P-341 PROGRAM
K - SQUAD OPS MQ1/9
KANDAHAR AIR FIELD, AFGHANISTAN
STRUCTURAL DETAILS

SHEET REFERENCE NUMBER:
K
S-501



10 S-502

11 S-502

12 S-502

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**SYMBOLS
LEGEND**

	PARTITION ID TAG
	WINDOW ID TAG
	DOOR ID TAG
	ROOM ID TAG
	KEYNOTE / EQUIPMENT TAG
	ELEVATION CALL-OUT
	SECTION CALL-OUT
	DETAIL REFERENCE NUMBER SHEET NUMBER DETAIL IS DRAWN ON
	DETAIL CALL-OUT
	ELEVATION
	METAL STUD AND GWB PARTITION (DRAWN IN PLAN)
	CONCRETE WALL (DRAWN IN PLAN)
	FIBERGLASS BATT INSULATION
	RIGID BOARD INSULATION
	CONCRETE OR GROUT (DRAWN IN SECTION)
	CONCRETE PAVING (DRAWN IN PLAN)

ABBREVIATION LEGEND

ABV ABOVE	PT PAINT
ACP ACOUSTIC CEILING PANEL	PTD PAINTED
AFF ABOVE FINISH FLOOR	QT QUARRY TILE
ALUM ALUMINUM	R RISER
AUTO AUTOMATIC	RAD RADIUS
BC BOTTOM OF CURB	REF REFERENCE
BD BOARD	REINF REINFORCED
BLDG BUILDING	RH RIGHT HAND
BLK BLOCK	RM ROOM
BLKG BLOCKING	RO ROUGH OPENING
BRG BEARING	ROW RIGHT OF WAY
CJ CONTROL JOINT	RWC RAIN WATER CONDUCTOR
CLG CEILING	SIM SIMILAR
CMU CONCRETE MASONRY UNIT	SPEC SPECIFICATION
CONC CONCRETE	SS STAINLESS STEEL
CONT CONTINUOUS	STD STANDARD
CONTR CONTRACTOR	STL STEEL
CRS COURSE	STN STAIN
CT CERAMIC TILE	STO STORAGE
DIAM DIAMETER	STR STRUCTURE
DN DOWN	SUSP SUSPENDED
DTL DETAIL	TC TOP OF CURB
DWG DRAWING	TELE TELEPHONE
EA EACH	TEMP TEMPERED/TEMPORARY
EIFS EXTERIOR INSULATION AND FINISH SYSTEM	TH THICK
EL ELEVATION	TO TOP OF
ELEC ELECTRIC	TR TREAD
EMER EMERGENCY	TYP TYPICAL
EQ EQUAL	UNF UNFINISHED
EQUIP EQUIPMENT	UNO UNLESS NOTED OTHERWISE
EWC ELECTRIC WATER COOLER	VERT VERTICAL
EXP EXPANSION	VIF VERIFY IN FIELD
EXT EXTERIOR	WD WOOD
F/ FACE OF	WH WATER HEATER
FD FLOOR DRAIN	WWF WELDED WIRE FABRIC
FE FIRE EXTINGUISHER	W/O WITHOUT
FEC FIRE EXTINGUISHER CABINET	
FL FLOOR	
FTG FOOTING	
GA GAUGE	
GALV GALVANIZED	
GC GENERAL CONTRACTOR	
GL GLASS	
GOVT GOVERNMENT	
GYP GYPSUM	
GWB GYPSUM WALLBOARD	
HDW HARDWARE	
HM HOLLOW METAL	
HT HEIGHT	
HTG HEATING	
HVAC HEATING/VENTILATING/AIR CONDITIONING	
INSUL INSULATION	
INT INTERIOR	
JAN JANITOR	
JT JOINT	
LAM LAMINATE	
LAV LAVATORY	
LH LEFT HAND	
LT LIGHT	
LVR LOUVER	
MAS MASONRY	
MAX MAXIMUM	
MECH MECHANICAL	
MFR MANUFACTURER	
MIN MINIMUM	
MIR MIRROR	
MISC MISCELLANEOUS	
MO MASONRY OPENING	
MR MOISTURE RESISTANT	
MS METAL STUD	
MTL METAL	
NA NOT APPLICABLE	
NIC NOT IN CONTRACT	
NO NUMBER	
NOM NOMINAL	
NTS NOT TO SCALE	
OC ON CENTER	
OH OVERHEAD	
OPG OPENING	
OPP OPPOSITE	
PL PLATE	
PLAM PLASTIC LAMINATE	
PLYWD PLYWOOD	
PNL PANEL	
PREF PREFABRICATED	
PERF PERFORATED	
PR PAIR	

GENERAL NOTES

STANDARDS AND REGULATIONS:

- CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH APPLICABLE BUILDING CODES, REGULATIONS, ORDINANCES, UTILITY PROVIDER REQUIREMENTS, AND SIMILAR STANDARDS.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED INSPECTIONS OF THE WORK. CONTRACTOR SHALL REGULARLY UPDATE THE CONTRACTING OFFICER REGARDING THE STATUS OF INSPECTIONS.
- CONTRACTOR SHALL COORDINATE WORK WITH APPLICABLE UTILITY PROVIDERS.
- CONTRACTOR SHALL BE FAMILIAR WITH REQUIREMENTS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH REFERENCED FIRE-RATED ASSEMBLY TESTS AND STANDARDS.

ADMINISTRATION OF THE WORK:

- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND DIMENSIONS.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS AT THE SITE.
- CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH CONDITIONS RELATED TO THE WORK. ANY KNOWN DISCREPANCIES BETWEEN THE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE CONTRACTING OFFICER FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK RELATED TO THE DISCREPANCY.
- CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION AND DEMOLITION DEBRIS. CONTRACTOR SHALL OBTAIN CONTRACTING OFFICER'S APPROVAL FOR DETAILS RELATING TO THE REMOVAL OF TRASH, INCLUDING SUCH ISSUES AS PATH OF TRAVEL, USE OF STAIRS AND ELEVATORS, REMOVAL OF WINDOWS, LOCATION OF CHUTES AND DUMPSTERS, ETC., PRIOR TO REMOVAL OF DEBRIS. CONTRACTOR SHALL CLEAN AND REPAIR ANY DAMAGES TO EXISTING ITEMS SOILED OR DAMAGED BY THE DEBRIS REMOVAL PROCESS. IF CLEANING AND/OR REPAIR DOES NOT RETURN ITEMS TO ORIGINAL CONDITION CONTRACTOR SHALL INSTALL NEW ITEMS.
- CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH PROCEDURES FOR MAINTAINING A SECURE SITE AND BUILDING AS INDICATED BY THE CONTRACTING OFFICER.
- EACH INSTALLER SHALL EXAMINE ALL SUBSTRATE CONDITIONS AND/OR SITE CONDITIONS WHICH AFFECT THE QUALITY OF EACH PRODUCT TO BE INSTALLED. IF ANY CONDITIONS EXIST WHICH WILL HAVE A DETRIMENTAL EFFECT ON THE QUALITY OF THE INSTALLATION, THE INSTALLER SHALL IMMEDIATELY NOTIFY THE CONTRACTOR. INSTALLATION SHALL NOT PROCEED UNTIL THE UNSATISFACTORY CONDITIONS ARE CORRECTED. INSTALLATION SHALL SIGNIFY ACCEPTANCE OF THE CONDITIONS.
- CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS ON THE SITE AT ALL TIMES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COORDINATION EFFORTS OF ALL SUBCONTRACTORS.
- CONTRACTOR SHALL LAY OUT ALL WORK AS SOON AS POSSIBLE. ANY DISCREPANCIES SHALL BE REPORTED TO THE CONTRACTING OFFICER FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.

USE OF CONSTRUCTION DOCUMENTS:

- DO NOT SCALE DRAWINGS. ONLY WRITTEN DIMENSIONS OR KEYED NOTES SHALL BE USED. CONTACT CONTRACTING OFFICER IF CLARIFICATION OR ADDITIONAL INFORMATION IS REQUIRED.
- THE DRAWINGS ARE SCHEMATIC IN NATURE. MODIFICATIONS IN DUCTS, PIPING, CONDUIT AND WIRING MAY BE REQUIRED TO ACCOMMODATE ACTUAL FIELD CONDITIONS.
- DRAWINGS SHALL NOT BE REPRODUCED FOR SUBMITTALS.
- THE CONTRACTOR MAY ELECT TO "ROUND" DIMENSIONS TO NEAREST WHOLE CENTIMETER IF AND ONLY IF THE CONTRACTOR PROVIDES COMPREHENSIVE FIELD COORDINATION IN ALL AFFECTED AND ADJACENT AREAS. DIMENSIONS SHOWN IN CORRIDORS AND STAIRS MAY NOT BE REDUCED IN SIZE. OVERALL BUILDING DIMENSIONS AND AREA MAY NOT BE EXCEEDED.
- DIMENSIONS ARE AS FOLLOWS UNLESS NOTED OTHERWISE:
 - TO FACE OF GYPSUM WALLBOARD.
 - TO CENTERLINE OF COLUMNS.
 - TO TOP OF FLOOR SLAB.
 - TO BOTTOM OF FINISHED CEILING.
 - TO FACE OF MASONRY OR CONCRETE.
 - VERIFY IN FIELD DIMENSIONS OF ALL DOOR, WINDOW AND LOUVER

DEFINITIONS:

- "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE AND/OR TO INSTALL NEW CONSTRUCTION ADJACENT TO EXISTING CONSTRUCTION WITHOUT ANY VISIBLE JOINTS OR SURFACE IRREGULARITIES.
- "CLEAR" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS NOT ADJUSTABLE WITHOUT APPROVAL OF THE CONTRACTING OFFICER. CLEAR DIMENSIONS ARE TYPICALLY TO FINISH FACE.
- "MAXIMUM" OR "MAX" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY GREATER THAN THAT SHOWN WITHOUT APPROVAL OF THE CONTRACTING OFFICER.
- "MINIMUM" OR "MIN" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY LESS THAN THAT SHOWN WITHOUT APPROVAL OF THE CONTRACTING OFFICER.

GENERAL NOTES CONT.

DEFINITIONS CONT.:

- "TYPICAL" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.
- "*" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE DIMENSION OR QUALITY IS SLIGHTLY ADJUSTABLE TO ACCOMMODATE ACTUAL CONDITIONS. FIELD VERIFICATION AND COORDINATION WITH OTHER ELEMENTS MIGHT BE NECESSARY.

FINISH NOTES:

- REFER TO "APPENDIX B" DATA SHEET FOR ROOM FINISH INFORMATION
- FINISH COLORS TO BE SELECTED BY CONTRACTING OFFICER
- SURFACES TO BE PAINTED SHALL BE CLEAN AND FREE OF FOREIGN MATTER BEFORE APPLICATION OF PAINT. CLEANING SHALL BE SCHEDULED SO THAT DUST AND OTHER CONTAMINANTS WILL NOT FALL ON WET, NEWLY PAINTED SURFACES.
- CONCRETE AND INTERIOR MASONRY SURFACES GROUTED SOLID SHALL BE ALLOWED TO DRY AT LEAST 30 DAYS BEFORE PAINTING EXCEPT CONCRETE SLAB ON GRADE WHICH SHALL BE ALLOWED TO CURE 90 DAYS BEFORE PAINTING.
- PAINTS CONTAINING LEAD IN EXCESS OF 0.06 PERCENT BY WEIGHT OF THE TOTAL NONVOLATILE CONTENT SHALL NOT BE USED.
- MERCURIAL FUNGICIDES SHALL NOT BE USED IN OIL-BASE PAINT.
- REMOVE LOOSE DIRT AND CLEAN SURFACES BEFORE PAINTING. APPLY PAINT TO INTERIOR STRUCTURAL RIGID FRAMING AND CEILINGS AND TEST FOR ADHESION. PRIMER COAT FOR MASONRY. INITIAL FIRST COAT WITH AN ACRYLIC LATEX PAINT FOR EXTERIOR SURFACES AND A SECOND COAT WITH A WATER REPELLENT ACRYLIC LATEX PAINT.
- METAL DOORS AND FRAMES SHALL RECEIVE A PRIMER COAT PLUS TWO COATS OF PAINT.
- ALL EQUIPMENT AND FURNITURE INDICATED ON ARCHITECTURAL DRAWINGS IS NOT IN CONTRACT (NIC).



NO.	DATE	DESCRIPTION

DESIGNED BY: MR	DATE: 26 SEPT 2011	SUBMITTED BY: BAKER	FILE NO.:
DWN BY: MH	CHK BY: DP	AF134A-A001-GNDWG	

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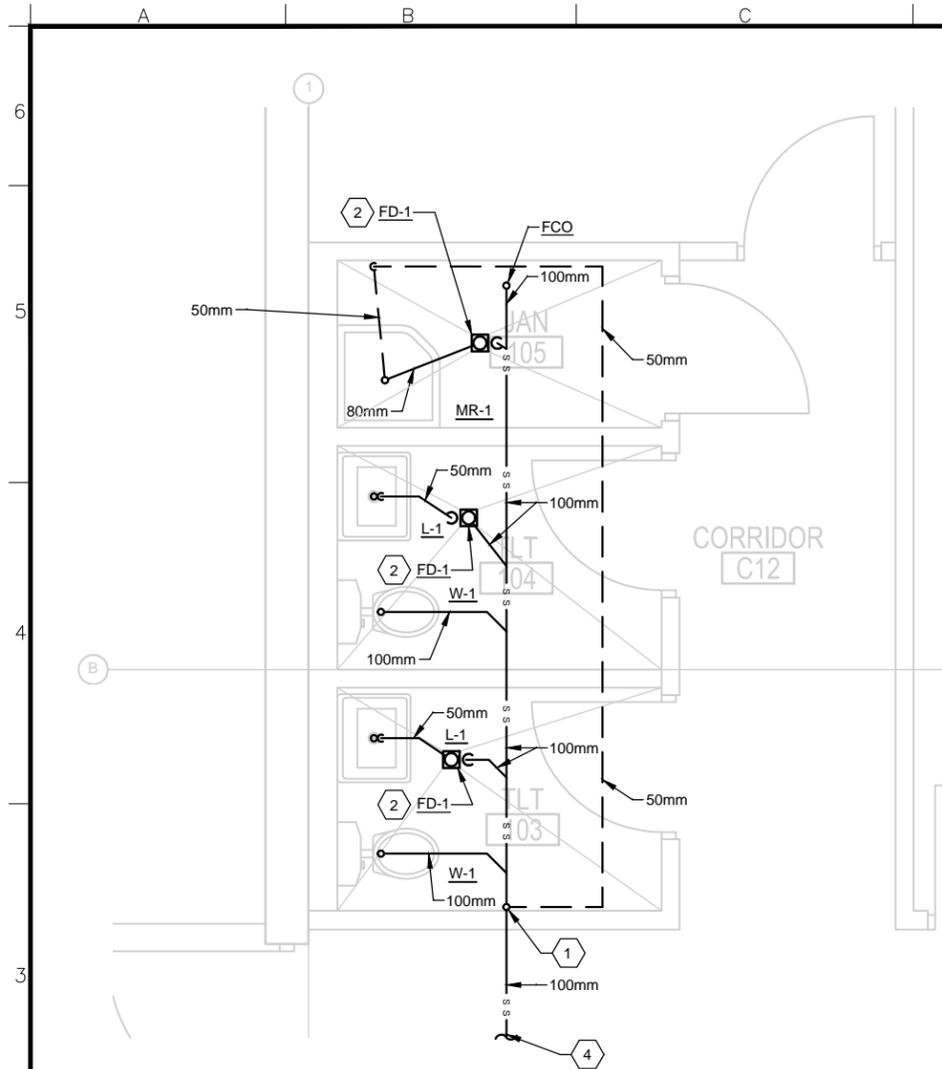
US Army Corps of Engineers
Middle East District

UMMC P-341 PROGRAM
K - SQUAD OPS MQ1/9
KANDAHAR AIR FIELD, AFGHANISTAN
STANDARD ARCHITECTURAL
NOTES, LEGEND, AND ABBREVIATIONS

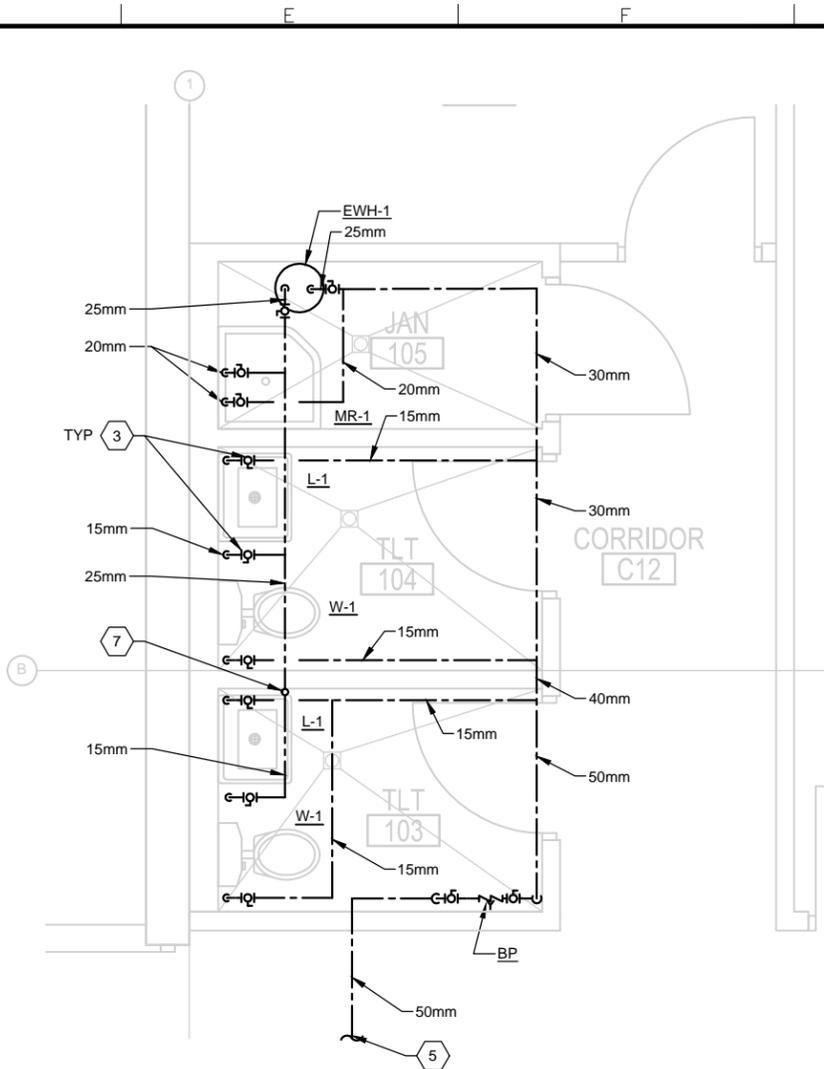
SHEET
REFERENCE
NUMBER:
**K
A-001**



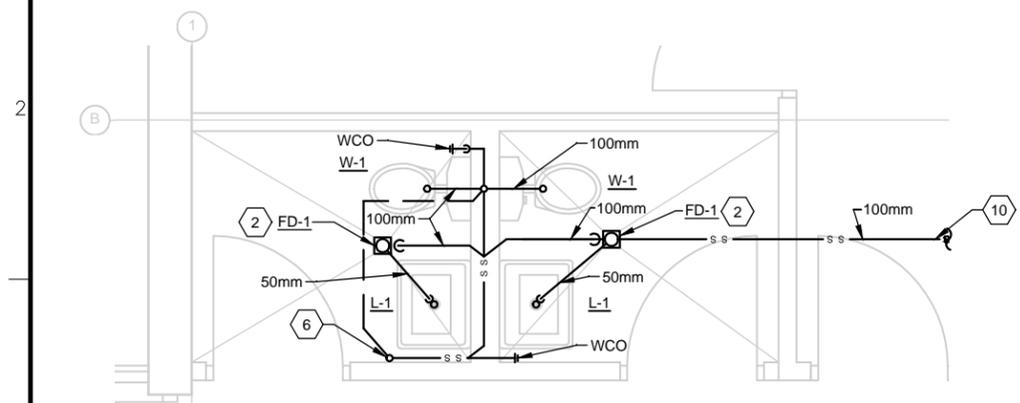
UNLESS OTHERWISE NOTED,
LINEAR DIMENSIONS
SHOWN ARE IN MILLIMETERS.



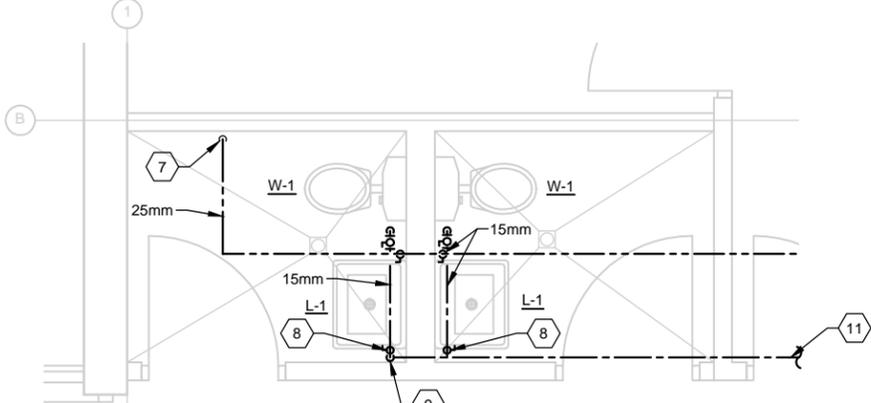
1
P-401
FIRST FLOOR ENLARGED PLAN - SANITARY
SCALE: 1:50



2
P-401
FIRST FLOOR ENLARGED PLAN - DOMESTIC HOT AND COLD WATER
SCALE: 1:50



3
P-401
SECOND FLOOR ENLARGED RESTROOM PLAN - SANITARY
SCALE: 1:50



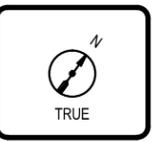
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P-401
SECOND FLOOR ENLARGED RESTROOM PLAN - DOMESTIC HOT AND COLD WATER
SCALE: 1:50

GENERAL NOTES:

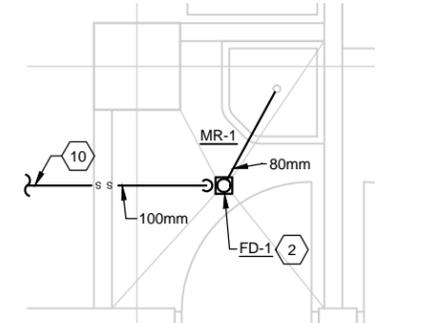
1. PIPING IS ROUTED EXPOSED ON THE UNDERSIDE OF CEILINGS OR AS HIGH AS POSSIBLE ALONG WALLS. FIELD COORDINATE ROUTING WITH OTHER TRADES.
2. PROVIDE CLEANOUTS AT A MAXIMUM SPACING OF 7.62 METERS.

KEY NOTES:

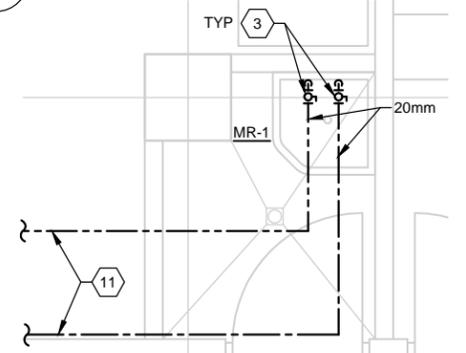
1. 50mm VENT STACK UP TO SECOND FLOOR.
2. LAVATORY DRAINS TO CONNECT TO P-TRAP OF FLOOR DRAINS.
3. PROVIDE ISOLATION VALVES FOR HOT AND COLD WATER PIPES TO EACH INDIVIDUAL FIXTURE.
4. FOR CONTINUATION OF SANITARY LINE SEE 1/P-101.
5. FOR CONTINUATION OF DOMESTIC COLD WATER LINE SEE 1/P-101.
6. 100mm SANITARY DOWN TO FIRST FLOOR AND 100mm VENT UP THROUGH ROOF.
7. 25mm HOT WATER LINE DOWN TO FIRST FLOOR.
8. PROVIDE ISOLATION VALVES FOR COLD WATER IN THE VERTICAL PIPE.
9. 25mm COLD WATER LINE DOWN TO FIRST FLOOR.
10. FOR CONTINUATION OF SANITARY LINE SEE 1/P-102.
11. FOR CONTINUATION OF DOMESTIC COLD WATER SEE 1/P-102.



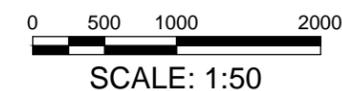
NO.	DATE	DESCRIPTION



5
P-401
SECOND FLOOR ENLARGED JANITOR PLAN - SANITARY
SCALE: 1:50

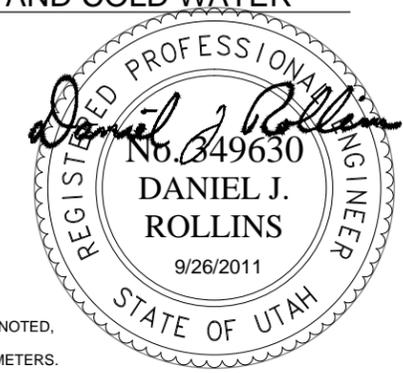


6
P-401
SECOND FLOOR ENLARGED JANITOR PLAN - DOMESTIC HOT AND COLD WATER
SCALE: 1:50



SCALE: 1:50

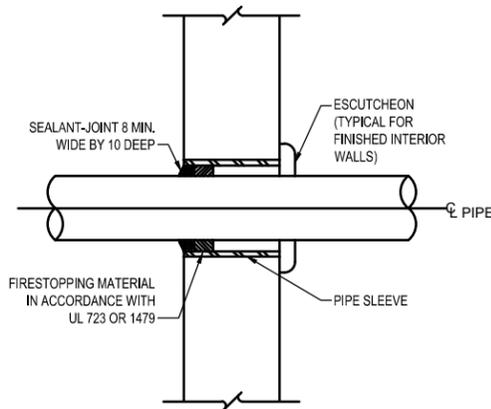
UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ARE IN MILLIMETERS.



DESIGNED BY: VAH	DATE: 26 SEPT 2011	SUBMITTED BY: BAKER	FILE NO.:
DWN BY: VAH	CHK BY: D.J.R	APPROVED BY: D.J.R	PROJECT NO.:
Michael Baker, Jr., Inc. Corporation Ardara Business Park, 100 Ardara Drive Moon Township, PA 15108 www.mbakercorp.com			
US Army Corps of Engineers Middle East District			

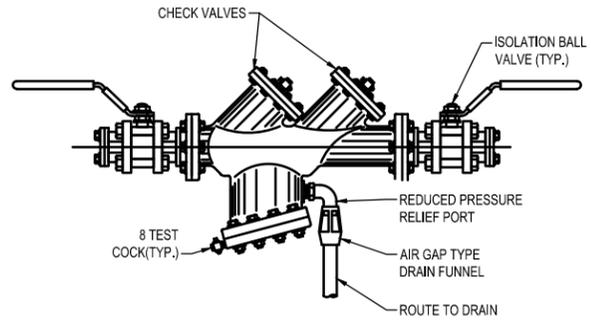
UMMC P-341 PROGRAM
K - SQUAD OPS MQ1/9
KANDAHAR AIR FIELD, AFGHANISTAN
ENLARGED PLUMBING PLANS

SHEET REFERENCE NUMBER:
K P-401



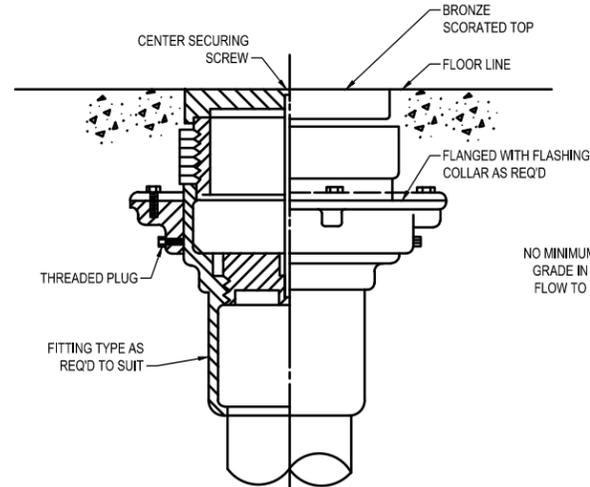
1 TYPICAL WALL PENETRATION DETAIL

P-501 SCALE: NONE



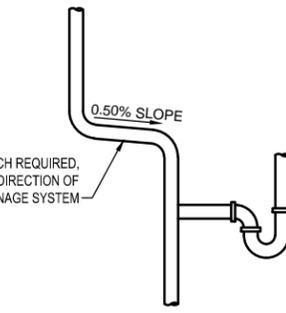
2 TYPICAL BACKFLOW PREVENTER DETAIL

P-501 SCALE: NONE



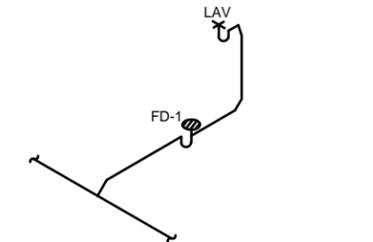
3 TYPICAL FLOOR CLEANOUT DETAIL

P-501 SCALE: NONE



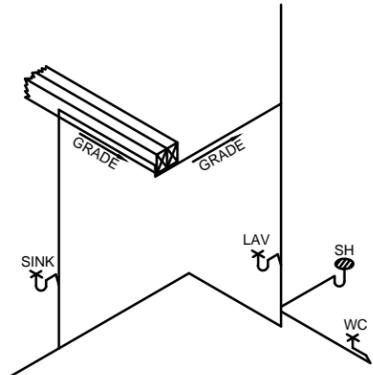
4 TYPICAL VENT GRADE DETAILS

P-501 SCALE: NONE



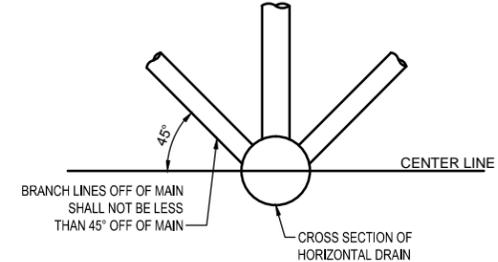
5 TYPICAL INDIRECT WASTE AS TRAP PRIMER DETAIL

P-501 SCALE: NONE



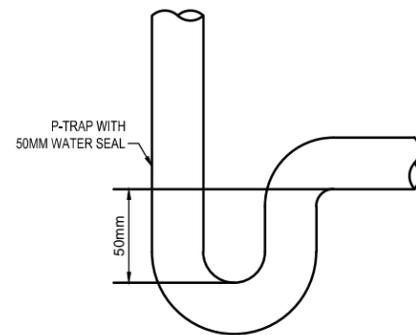
6 TYPICAL VENT GRADE DETAILS

P-501 SCALE: NONE



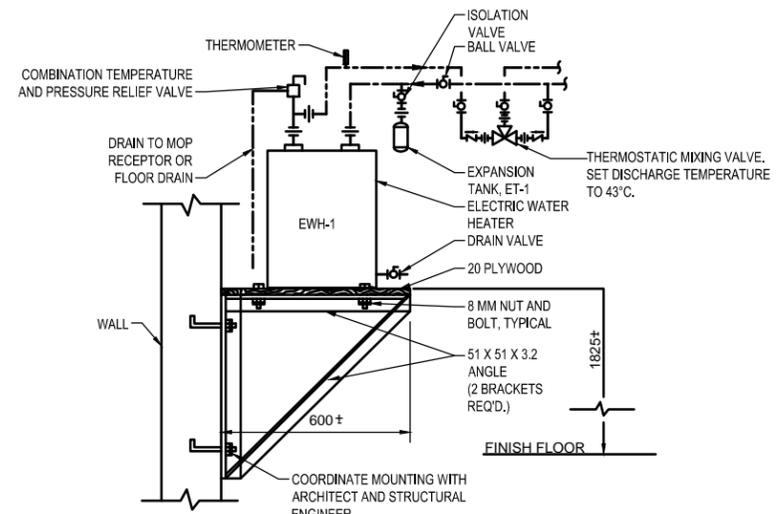
7 ACCEPTABLE VENT CONNECTIONS TO HORIZONTAL DRAIN - DETAIL

P-501 SCALE: NONE



8 P-TRAP WITH 50MM WATER SEAL DETAIL

P-501 SCALE: NONE



9 WALL MOUNTED ELECTRIC WATER HEATER SCHEMATIC

P-501 SCALE: NONE

PLUMBING FIXTURE LIST SCHEDULE							
TYPE	ITEM	SOIL & WASTE	VENT	COLD WATER	HOT WATER	REMARKS	REMARKS 2
W-1	WATER CLOSET	100mm	50mm	15mm	----	FLUSH TANK	-----
L-1	LAV	50mm	40mm	15mm	15mm	WALL HUNG	-----
U-1	URINAL	50mm	40mm	15mm	----	WALL HUNG	-----
MR-1	MOP RECEPTOR	80mm	---	20mm	20mm	600mm x 600mm x 250mm	DRAIN AND CONTROLS
FD-1	FLOOR DRAIN	100mm	---	---	---	SLOPE FLOOR TO DRAIN	-----

ELECTRIC WATER HEATER SCHEDULE												
MARK	MANUFACTURER	MODEL	LOCATION	STORAGE (Ltr)	PHYSICAL SIZE	RECOVERY Ltr/H	TEMP RISE °C	SET POINT °C	HOT & COLD CONN	TOTAL KW	VOLTS/ PHASE/ HERTZ	REMARKS
EWH-1	A.O. SMITH	DEL-6	JANITOR	23	400 mm x 360 mmØ	170	30	49	25mm HW 25mm CW	3	208/3/60	EXTEND DRAIN LINE FROM T&P VALVE TO NEAREST FLOOR DRAIN

EXPANSION TANK SCHEDULE						
MARK	MANUFACTURER	MODEL NO.	LOCATION	STORAGE (Ltr)	OPERATING TEMP. °C	REMARKS
ET-1	AMTROL	WX-101	JAN 112	8	49°	



NO.	DATE

NO.	DESCRIPTION

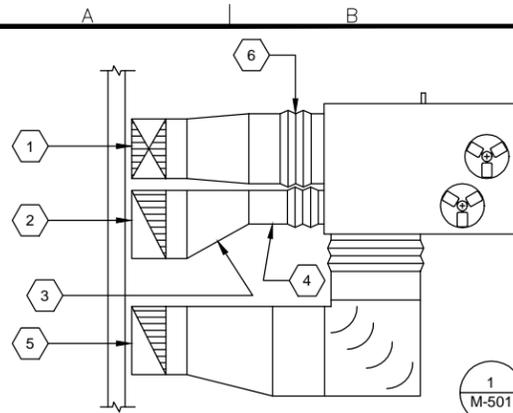
DESIGNED BY: VAH	DATE: 26 SEPT 2011
DWN BY: VAH	SUBMITTED BY: BAKER
CHK BY: DJR	FILE NO.: AF11344-P-501-D1-DWG

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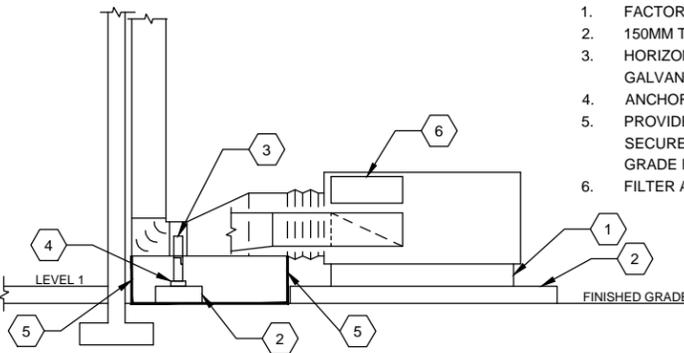
UMMC P-341 PROGRAM
 K - SQUAD OPS MQ1/9
 KANDAHAR AIR FIELD, AFGHANISTAN
 PLUMBING DETAILS AND SCHEDULES

SHEET REFERENCE NUMBER:
K
P-501



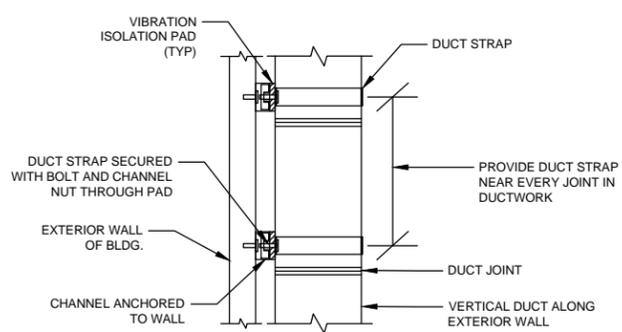
- # KEY NOTES:**
- SUPPLY AIR DUCT UP ALONG WALL
16 KW UNIT - 450/450
25 KW UNIT - 600/500
 - RETURN AIR DUCT UP ALONG WALL
16 KW UNIT - 500/450
25 KW UNIT - 700/500
 - RETURN AIR TRANSITION
 - RETURN AIR DUCT
16 KW UNIT - 300/660
25 KW UNIT - 300/900
 - OUTSIDE AIR DUCT UP ALONG WALL
16 KW UNIT - 500/450
25 KW UNIT - 700/500
 - FLEX CONNECTOR, TYPICAL

1 M-501 **PACKAGED HVAC UNIT PLAN VIEW DETAIL**
SCALE: NONE

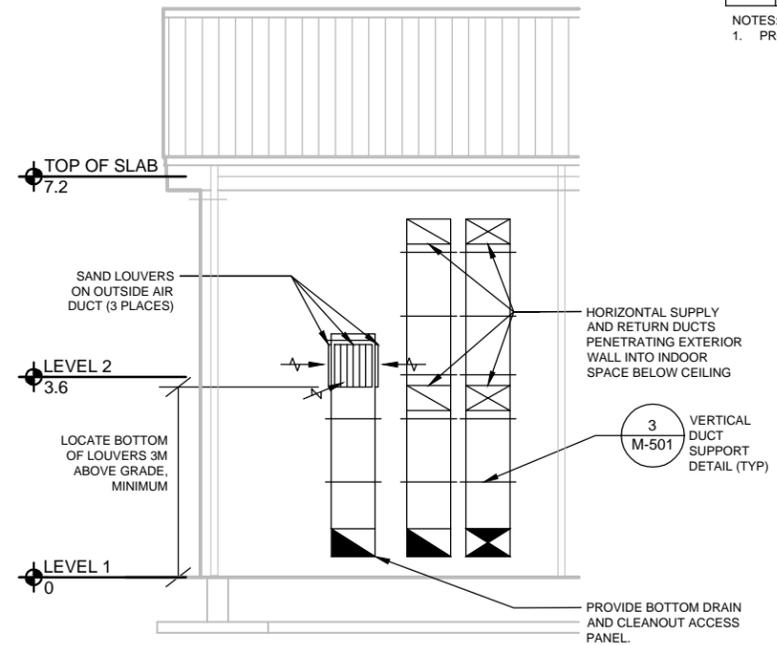


- # KEY NOTES:**
- FACTORY CURB
 - 150MM THICK CONCRETE BASE PAD
 - HORIZONTAL DUCT SUPPORT NEAR ELBOW,
GALVANIZED STRUCTURAL ANGLE
 - ANCHOR SUPPORT BASE TO PAD
 - PROVIDE 4 SIDED SHEET METAL "SKIRT"
SECURED TO BOTTOM OF DUCT DOWN TO
GRADE FOR AT/FP PURPOSE.
 - FILTER ACCESS PANEL.

2 M-501 **PACKAGED HVAC UNIT SIDE VIEW DETAIL**
SCALE: NONE



3 M-501 **VERTICAL DUCT SUPPORT DETAIL**
SCALE: NONE



4 M-501 **EXTERIOR DUCT ELEVATION DETAIL**
SCALE: NONE

SPLIT SYSTEM HEAT PUMP SCHEDULE															
INDOOR UNIT							OUTDOOR UNIT								
TAG	AIR FLOW LPS	NOMINAL COIL CAPACITY, KW		MANUFACTURER	MODEL NO.	WEIGHT KG	TAG	ELECTRICAL INFORMATION				MANUFACTURER	MODEL NO.	WEIGHT KG	NOTES
		COOLING	HEATING					VOLTAGE	PHASE	RLA	MOCP				
HP-1	189	3.5	3.5	CHIGO	QCIH12A	6.4	CU-1	120	1	9.0	15	CHIGO	QCOH12A	21.8	1-8
HP-2	288	5.3	5.3	CHIGO	QCIH18A	8.2	CU-2	208-230	1	5.5	20	CHIGO	QCOH18A	28.1	1-8

- NOTES:**
- OUTDOOR UNIT SHALL BE MOUNTED ON AND SECURED TO WALL MOUNTED PLATFORM OR PAD.
 - CONDENSATE SHALL BE GRAVITY PIPED TO THE OUTDOORS.
 - UNIT SHALL HAVE LOW AMBIENT CONTROL TO -18°C.
 - UNITS SHALL AUTOMATICALLY RESTART IN THE EVENT OF A POWER FAILURE.
 - THESE SYSTEMS WILL HAVE ONE ELECTRICAL CONNECTION TO THE OUTDOOR UNIT. CONTRACTOR WILL PROVIDE THE POWER/CONTROL WIRING FROM THE OUTDOOR UNIT TO THE INDOOR UNIT. THE INDOOR UNITS WILL BE FURNISHED WITH A LOCAL MOTOR SENTINEL SWITCH FOR SERVICING.
 - INDOOR UNITS TO BE EXPOSED TYPE UNITS WITH LINEAR SUPPLY DIFFUSER ON FRONT OF UNIT AND RETURN GRILLE ON BOTTOM OF UNIT.
 - PROVIDE UNIT WITH DISCONNECT SWITCH WITH LOCK-OUT / TAG-OUT PROVISIONS.
 - PROJECT ALTITUDE IS 1450 m ABOVE SEA LEVEL.

LOUVER SCHEDULE								
TAG	SERVICE	SIZE (mm)	AIR FLOW LPS	PRESSURE DROP, mmH2O	MANUFACTURER	MODEL NO.	FREE AREA (SQ. m)	NOTES
L-1	EXHAUST	300 x 300	100	2	RUSKIN	ELF375DX	0.03	1
L-2	OUTSIDE AIR	600 x 600	95	1	RUSKIN	L5361 SAND LOUVER	0.09	1
L-3	EXHAUST	300 x 300	70	2	RUSKIN	ELF375DX	0.03	1
L-4	EXHAUST	600 x 350	295	2	RUSKIN	ELF375DX	0.07	1

- NOTES:**
- PROVIDE OPTIONAL BIRD SCREEN.

EXHAUST FAN SCHEDULE									
TAG	TYPE	FLOW RATE (LPS)	DRIVE	HP	SP mmH2O	ELECTRICAL DATA	MANUFACTURER	MODEL NO.	NOTES
EF-1	IN-LINE	100	DIRECT	1/4	18	120/1/60	GREENHECK	SQ-85-VG	1,3
EF-2	IN-LINE	295	DIRECT	1/6	13	120/1/60	GREENHECK	SQ-120-B	1-3
EF-3	IN-LINE	70	DIRECT	1/4	13	120/1/60	GREENHECK	SQ-65-D	1,3
EF-4	IN-LINE	70	DIRECT	1/12	13	120/1/60	GREENHECK	SP-B150	1,5

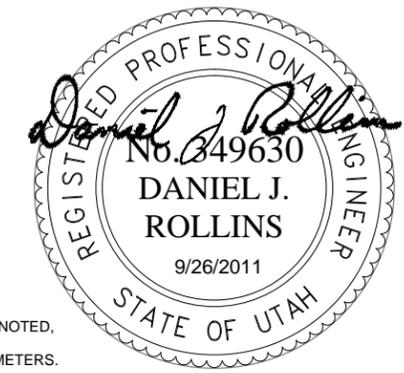
- NOTES:**
- PROVIDE WITH GRAVITY OPERATED BACK DRAFT DAMPER AT FAN DISCHARGE.
 - PROVIDE UNIT WITH MOTOR SPEED CONTROLS.
 - FAN CONTROL TO BE ON THE SAME SWITCH LEG AS THE LIGHT FIXTURES IN THE AREA.
 - PROVIDE UNIT WITH FACTORY DISCONNECT.
 - PROVIDE TOGGLE SWITCH DISCONNECT.

BASEBOARD HEATER SCHEDULE							
TAG	LOCATION	WATTS	ELECTRICAL DATA		MANUFACTURER	MODEL NO.	NOTES
			V/P/Hz	FLA			
BBH-1	CORRIDOR	1000	120/1/60	8.3	BERKO	BKOC2514W	1-3

- NOTES:**
- PROVIDE UNIT WITH TAMPER RESISTANT THERMOSTAT.
 - PROVIDE UNIT WITH FACTORY DISCONNECT.
 - MOUNT BBH MIN. 6" A.F.F.

PACKAGED HVAC UNIT SCHEDULE																										
TAG	SERVES	MINIMUM OUTSIDE AIR %	MINIMUM OUTSIDE AIR (LPS)	MIN. SEER	SUPPLY FAN				COMPRESSORS/ CIRCUITS				COOLING COIL				HEATING COIL		FILTERS		ELECTRICAL DATA					
					MAX LPS	TOTAL SP (PA AT MAX LPS)	EXT SP (PA AT MAX LPS)	MOTOR HP	QTY	TYPE	NO OF REFRIG CIRCUITS	REFRIGERANT	TOTAL KW	SENS KW	EA (DB/WB) °C	UNIT LA (DB/WB) °C	KW	EAT/LAT (°C)	EFF/TYPE	MAKE / MODEL	VOLTS/ PHASE/ HERTZ	MCA	MOCP	DISCONNECT	STARTERS	NOTES
AC-1	LEVEL 1 AND 2	20	190	13	945	1000	375	2	1	SCROLL	1	R-410	16.3	14.6	27.1/17.8	12.2/12.1	19.9	18.9/36	40%/WASH	CARRIER / 50HCA06	208/3/60	75.5	80	FACTORY	FACTORY	1-12

- NOTES:**
- MINIMUM OUTSIDE AIR MUST BE MAINTAINED REGARDLESS OF UNIT SUPPLY AIRFLOW DURING OCCUPIED HOURS.
 - COOLING PERFORMANCE IS AT 39° C (102° F) AMBIENT CONDITIONS ON CONDENSER. COOLING COILS TO BE INTERTWINED.
 - PROVIDE UNIT 100% ECONOMIZER AND POWER EXHAUST.
 - PROVIDE UNIT WITH POWERED CONVENIENCE OUTLET.
 - PROVIDE UNIT WITH FACTORY RA DUCT SMOKE DETECTORS.
 - PROVIDE UNIT WITH WASHABLE FILTERS.
 - PROVIDE UNIT WITH DIFFERENTIAL ENTHALPHY CONTROLLED ECONOMIZER.
 - PROVIDE UNIT CONFIGURED FOR HORIZONTAL SUPPLY AND RETURN.
 - PROVIDE UNIT WITH FACTORY CURB.
 - PROVIDE UNIT WITH 7-DAY PROGRAMMABLE THERMOSTAT.
 - PROJECT ALTITUDE IS 1010 m ABOVE SEA LEVEL.
 - 16 KW UNIT R.A. FILTERS: (4) 16x16x2, O.A. SCREEN: (1) 20x24x1
 - 25 KW UNIT R.A. FILTERS: (4) 20x20x2, O.A. SCREEN: (1) 20x24x1



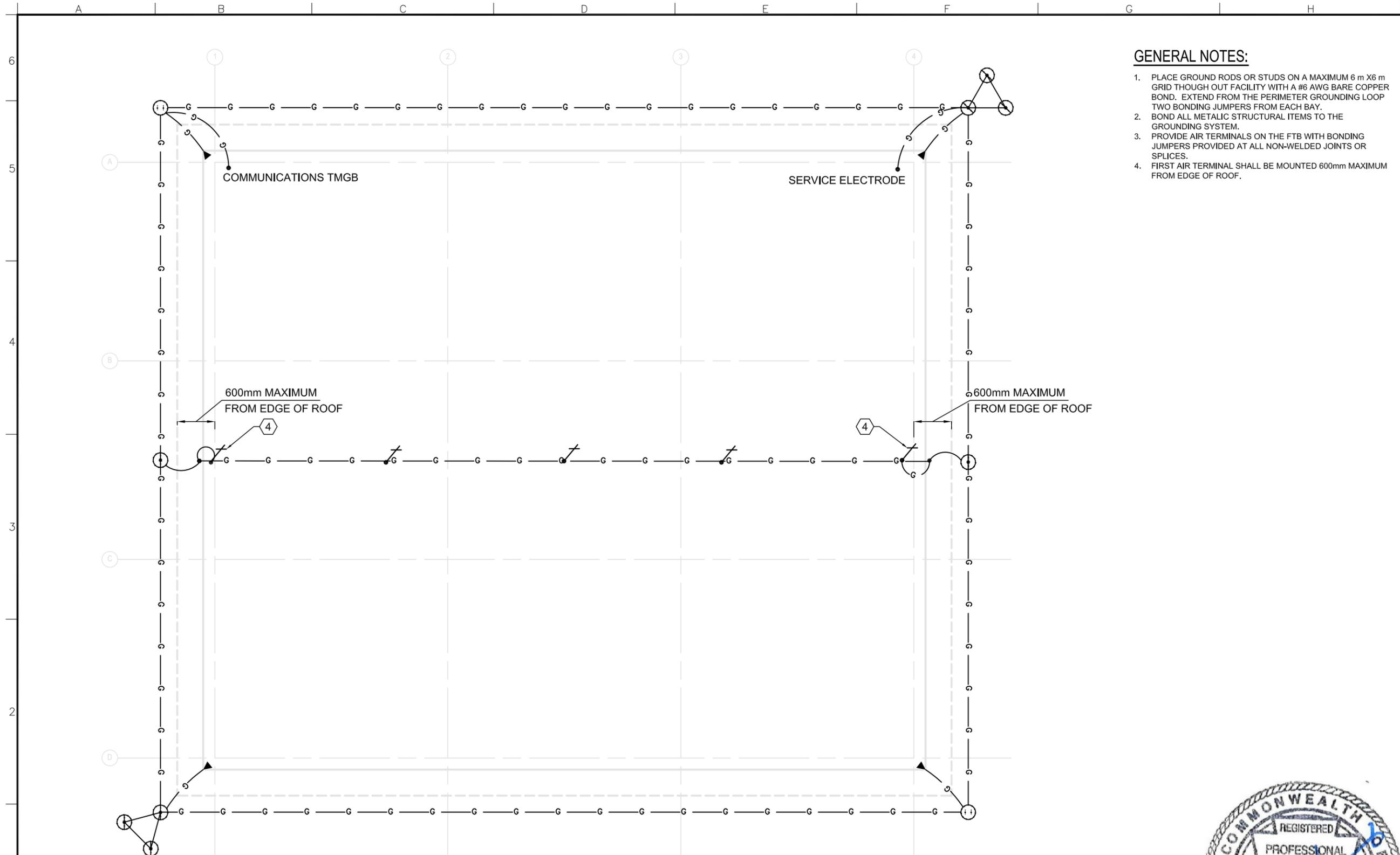
DESIGNED BY: JJK
DATE: 26 SEPT 2011
SUBMITTED BY: BAKER
FILE NO.: AF1544-M-501-DWG

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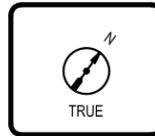
UMMC P-341 PROGRAM
K - SQUAD OPS MQ1/9
KANDAHAR AIR FIELD, AFGHANISTAN
MECHANICAL DETAILS AND SCHEDULES

SHEET REFERENCE NUMBER:
K
M-501



GENERAL NOTES:

1. PLACE GROUND RODS OR STUDS ON A MAXIMUM 6 m X6 m GRID THOUGH OUT FACILITY WITH A #6 AWG BARE COPPER BOND. EXTEND FROM THE PERIMETER GROUNDING LOOP TWO BONDING JUMPERS FROM EACH BAY.
2. BOND ALL METALIC STRUCTURAL ITEMS TO THE GROUNDING SYSTEM.
3. PROVIDE AIR TERMINALS ON THE FTB WITH BONDING JUMPERS PROVIDED AT ALL NON-WELDED JOINTS OR SPLICES.
4. FIRST AIR TERMINAL SHALL BE MOUNTED 600mm MAXIMUM FROM EDGE OF ROOF.



SYMBOL	DESCRIPTION	DATE	APP

DESIGNED BY: PDM	DATE: 26 SEPT 2011
DWN BY: MLB	SUBMITTED BY: BAKER
CHK BY: RKT	FILE NO: AF134AE-03PNDWG

Michael Baker Corp.
Attn: Mike Baker, Corporation
Attn: Mike Baker, Corporation
Attn: Mike Baker, Corporation
Moon Township PA 15108
www.mbakercorp.com

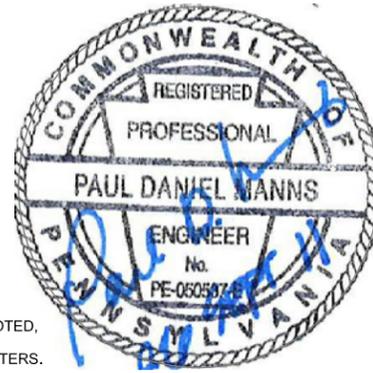
US Army Corps
of Engineers
Middle East District

1
E-107 **LIGHTNING PROTECTION AND GROUNDING PLAN**
SCALE: 1:100



SCALE: 1:100

UNLESS OTHERWISE NOTED,
LINEAR DIMENSIONS
SHOWN ARE IN MILLIMETERS.



UMMC P-341 PROGRAM
K - SQUAD OPS MQ1/9
KANDAHAR AIR FIELD, AFGHANISTAN
LIGHTNING PROTECTION AND GROUNDING PLAN

SHEET
REFERENCE
NUMBER:
K
E-107

