

YOSHINO-SHAW & ASSOCIATES

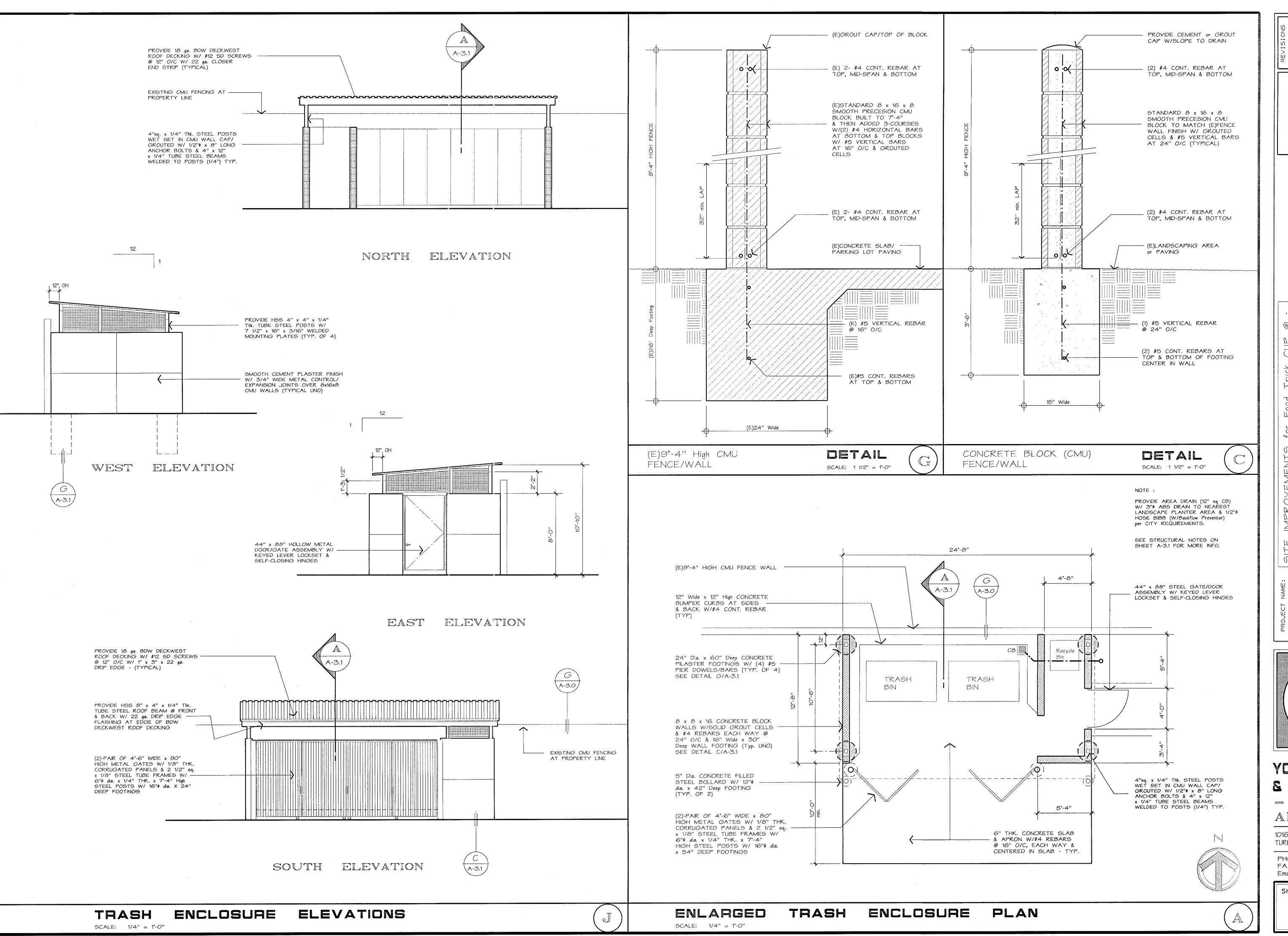
- Jim Shaw -

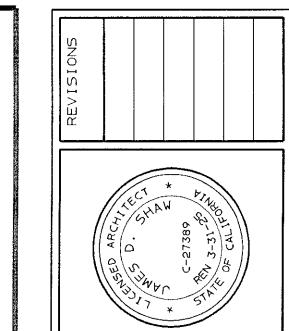
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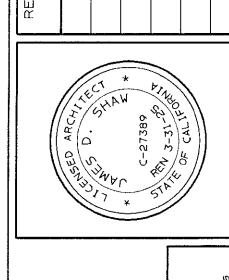
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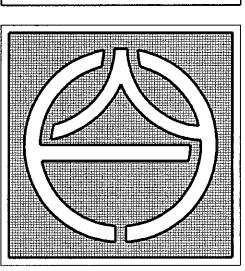
SHEET NO.







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6. MASONRY

MASONRY CONSTRUCTION SHALL COMPLY WITH THE 2022 CBC, SECTION 2104 & TMS 602 or 604 REQUIREMENTS.

- A. CONCRETE MASONRY UNITS SHALL CONFORM TO THE FOLLOWING STANDARDS
- 1. ASTM C 55 FOR CONCRETE BLOCK.
- ASTM C 73 FOR CALCIUM SILICATE FACE BRICK. ASTM C 90 FOR LOAD BEARING CONCRETE MASONRY UNITS. 4. ASTM C 744 FOR PREFACED CONCRETE & CALCIUM SILICATE MASONRY UNITS.
- B. CONCRETE MASONRY UNITS TO BE MEDIUM OF LIGHT WEIGHT & MUST ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF F'M = 1,500 PSI.
- C. TYPE S or M MORTAR COMPLYING W/2022 CBC CHAPTER 21 STANDARDS SHALL BE USED.
- D. GROUT SHALL ATTAIN A COMPRESSIVE STRENGTH OF (F'M SPECIFIED ABOVE) 2,000 PSI MINIMUM IN 28 DAYS, W/A MAXIMUM GROUT SIZE OF 3/8", A DENSITY OF 140 PCF & SHALL COMPLY WITH SECTION 2103.2.1 OF THE 2022
- 7. STRUCTURAL STEEL THE DESIGN, FABRICATION & ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH 2022 CBC, CHAPTER 22 & AISC 360 REQUIREMENTS.
 - A. ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A992 (Fy = 50 ksi) STANDARDS. ALL PIPE COLUMNS SHALL CONFORM TO ASTM A53, GRADE B (Fy = 35 ksi) STANDARDS. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B (Fy = 46 ksi) STANDARDS. ALL PLATES & BARS SHALL CONFORM TO ASTM A36 STANDARDS.
 - B. THE FABRICATION & ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST AISC & AWS SPECIFIFCATIONS.
 - C. THE STRUCTURE MAY NOT BE SELF SUPPORTING AS DEFINED IN AISC CODE OF STANDARD PRACTICE, THEREFORE ERECTION BRACING IS REQUIRED & IS TO BE PREPARED BY A LICENSED CIVIL ENGINEER OF STRUCTURAL ENGINEER; ERECTION PLANS & SEQUENCE SHALL BE SUBMITTED TO THE LOCAL BUILDING DEPT PRIOR TO FABRICATION.
 - D. ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER WITH E70 ELECTRODES CONFORMING TO ASTM A233 STANDARDS.
 - E. THE CONTRACTOR IS RESPONSIBLE FOR ANY & ALL TEMPORARY BRACING REQUIRED FOR ERECTION. ALL ERECTION, FABRICATION, & INSTALLATION SHALL CONFORM TO AISC, AWS & 2022 CBC STANDARDS.
 - F. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SHOP DRAWINGS TO BE ENGINEER FOR REVIEW, PRIOR ANY FABRICATION.
 - G. ALL CONNECTIONS NOT DETAILED ON THE PLANS SHALL BE DETAILED ON THE SHOP DRAWINGS & SUBMITTED TO THE ENGINEER & ARCHITECT FOR REVIEW.

8. SPECIAL INSPECTION REQUIREMENTS :

- A. THE OWNER SHALL EMPLOY ONE OF MORE SPECIAL INSPECTORS TO PROVIDE ON-SITE INSPECTIONS DURING THE CONSTRUCTION ON THE TYPES OF WORK LISTED. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPEC-TION OF PARTICULAR TYPE ON CONSTRUCTION REQUIRING SPECIAL INSPECTION.
- B. REPORT REQUIREMENTS : SPECIAL INSPECTORS SHALL KEEP RECORDS OF EACH INSPECTION. THE SPECIAL INSPECTOR SHALL FURNISH REPORTS TO THE BUILDING OFFICIAL, THE REGISTERED DESIGN PROFESSIONAL & OWNER. REPORTS SHALL INDICATE THAT THE WORK BEING INSPECTED WAS PERFORMED IN CON-FORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS & CORRECTIONS OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO ALL REQUIRED PARTIES BEFORE THE START OF WORK.
- C. SPECIAL INSPECTION ITEMS
- #1. C : LOCATION OF REINFORCING CONNECTORS.
- #2. A : SIZE & LOCATION OF STRUCTURAL ELEMENTS.
 - B: TYPE, SIZE & LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES or OTHER CONSTRUCTION.
- C : SPECIFIED SIZE, GRADE & TYPE OF REINFORMENT.
- #3 PRIOR TO GROUTING, INSPECTOR TO VERIFY THE FOLLOWING TO ENSURE COMPLIANCE :
- A : GROUT SPACE IS CLEAN.
- B: PLACEMENT OF REINFORCING & CONNECTORS, AND PRESTRESSING TEDONS & ANCHORAGES.
- GROUT PLACEMENT TO BE VERIFIED TO ENSURE COMPLIANCE WITH CODE & CONSTRUCTION DOCUMENT PROVISIONS.
- #5 COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS & APPROVED SUBMITTALS SHALL BE VERIFIED.
 - "POST-INSTALLED ANCHORS VERIFICATION / INSPECTION"
- POST-INSTALLED ANCHORS IN CONCRETE & MASONRY SHALL HAVE CONTINUOUS (WITNESS) OR PERODIC (PULL-TEST) SPECIAL INSPECTION ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS - (SEE ICC-ES EVALUATION REPORT).

ALL MATERIALS & WORKMANSHIP TO CONFORM TO LATEST APPLICABLE CODE EDITION: 2022 CALIFORNIA BUILDING CODE.

A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON JOB SITE W/COMPLETE SET OF LATEST DRAWINGS, NOTES & DIMENSIONS SHALL BE CHECKED & VERIFIED W/ ARCHITECTURAL & STRUC-TURAL DRAWINGS. ANY DISCREPANCIES IN NOTES OR DIMEN-SIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHI-TECT BEFORE COMMENCING WORK SO THAT PROPER REMEDIAL

WORK CAN BE EXECUTED. B. UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS, CONTRACTOR SHALL FURNISH & INSTALL ADEQUATE SHORING, BRACING, ETC. REQUIRED TO SAFELY EXECUTE ALL WORK

& SHALL BE FULLY RESPONSIBLE FOR THE SAME. C. DETAILS & CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED IN ACCORDANCE W/ DETAILS SHOWN FOR SIMILAR CONDITIONS & MATERIALS.

2. DESIGN LOADS

(PER STANDARD CBC TABLE 1607.1 UNIFORM LOADS & CALC'S)

3. SITE PREPARATIONS

ALL EXCAVATIONS, PREPARATION FOR SLAB-ON-GRADE, DEPTH OF FOOTINGS, BACKFILL, ETC. SHALL BE PERFORMED IN ACC-ORDANCE W/ MINIMUM CBC & CITY STANDARDS @ 95 % MIN.

4. CONCRETE

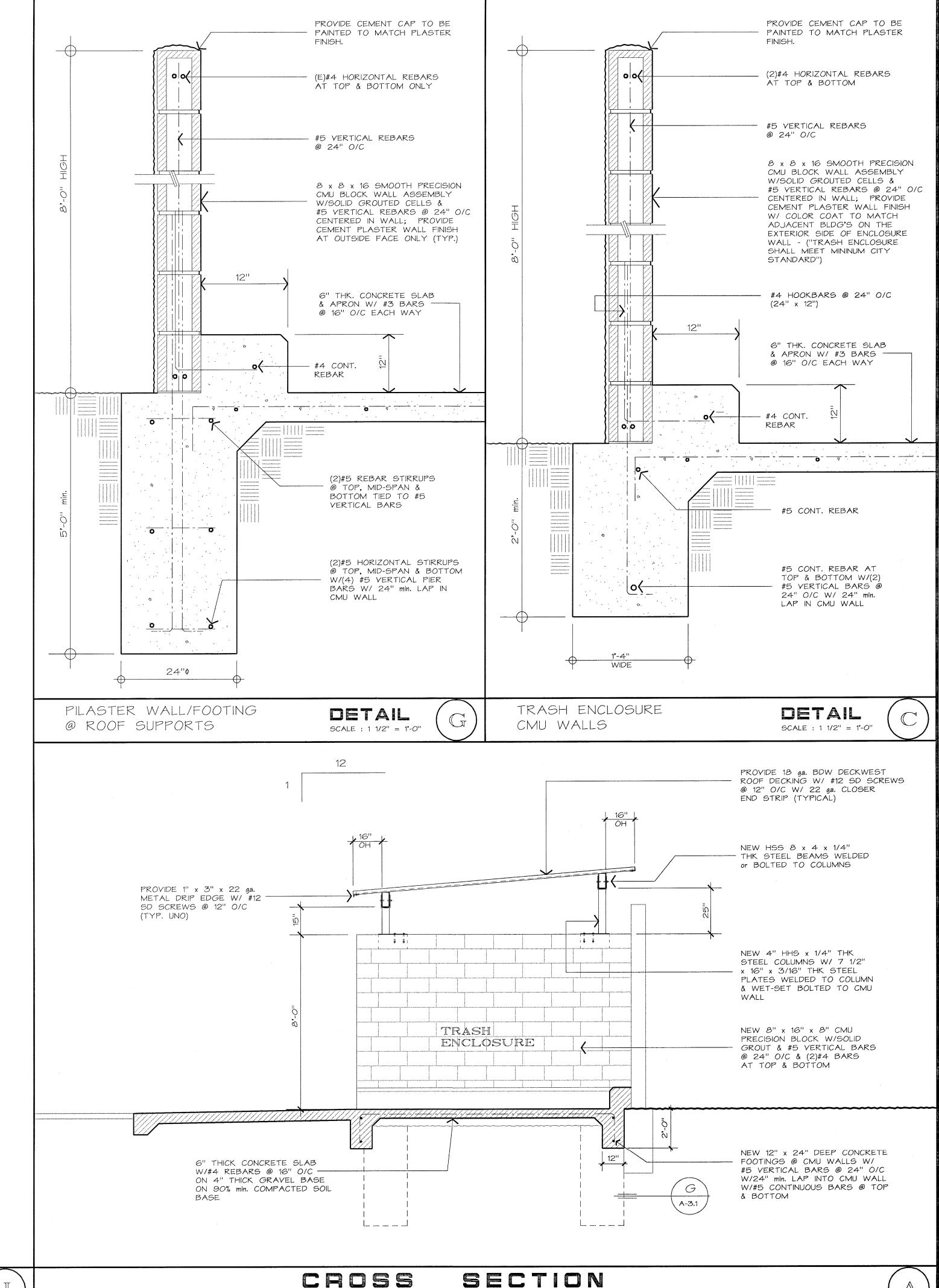
- A. PORTLAND CEMENT SHALL BE TYPE I OR II CONFORMING TO AST SPECIFICATION C 150. AGGREGATES SHALL BE NORMAL WEIGHT CONFORMING TO ASTM SPECIFICATION C 33, W/ PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.04%. USE SPECIAL TYPE OF CEMENT WHERE REQUIRED BY SOIL CONDITIONS, SEE SOILS REPORT, IF ANY.
- B. ALL CONCRETE SHALL BE FROM DESIGN MIX OF 2,500 PSI AT 28 DAYS. CONTINUOUS INSPECTION IS NOT REQUIRED. MAXIMUM SLUMP SHALL BE 4". USE MINIMUM OF FIVE SACKS OF CEMENT PER CUBIC YARD. FLOOR SLAB-ON-GRADE; PROVIDE 2,500 PSI CONCRETE.
- C. NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE PLUMBING & MECHANICAL DRAWINGS FOR LOCATION OF SLEEVES. MOULDS, FLOOR HINGES, ETC ... TO BE CAST INTO THE CONCRETE.
- D. VIBRATION OF CONCRETE SHALL BE PERFORMED IN ACCOR-DANCE W/ THE PORTLAND CEMENT ASSOCIATION SPEC.
- E. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF SEVEN DAYS AFTER ITS PLACEMENT: APPROVED CURING COMPOUNDS MAY BE USED IN LIEU OF MOIST CURING.
- F. FOUNDATION WALL BACKFILL SHALL BE BROUGHT UP SIMUL-TANEOUSLY ON EACH SIDE, SO THAT EARTH LEVEL ON ONE SIDE IS NEVER MORE THAN 8" HIGHER THAN THE OTHER SIDE, UNLESS APPROVED SHORING IS PROVIDED.
- G. EXPANSIVE SOIL UNDER THE BUILDING SLAB SHALL BE SCARIFIED & RECOMPACTED TO A DEPTH OF 6" BELOW ROUGH GRADE.
- H. CONTRACTOR SHALL PROVIDE DIKES & LONG TERM SPRINK LING TO OBTAIN A MOISTURE CONTENT OF 5% ABOVE OPTIMUM PRIOR TO PLACEMENT OF CONCRETE.
- I. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A MOISTURE TEST BY AN APPROVED TESTING LABORATORY PRIOR TO PLACEMENT OF CONCRETE.
- J. REINFORCEMENTS, ANCHOR BOLTS, PIPE SLEEVES & OTHER INSERTS SHALL BE POSITIVELY SECURED IN PLACE PRIOR TO PLACEMENT OF CONCRETE.
- K. CONCRETE PROTECTION FOR REINFORCEMENTS (TO FACE OF BARS): 3" WHERE CONCRETE IS POURED AGAINST EARTH. 2" WHERE CONCRETE IS EXPOSED TO EARTH BUT PLACED IN FORMS, 1 1/2" TO COLUMN TIES & BEAM/GIRDER STIRRUPS. 3/4" FOR SLABS, WALLS AND JOISTS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- L. ALL CONCRETE WORK SHALL CONFORM TO CBC AND ACI STDS.
- M. ALL REBARS SHALL CONFORM TO ASTM-615, GRADE 60 FOR #5 & LARGER, AND GRADE 40 FOR #4 & SMALLER.
- N. FREE-FALL OF CONCRETE NOT TO EXCEED 4'-O".

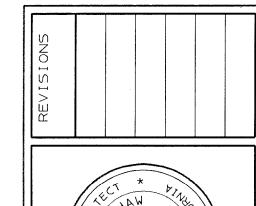
5. GENERAL FOUNDATION

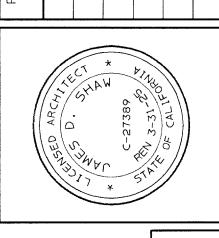
A. TYPE OF FOOTING: SHALLOW CONTINUOUS & SPREAD FOOTING SYSTEM WITH A MINIMUM EMBEDMENT OF 18" BELOW LOWEST ADJACENT FINISHED SOIL SUB-GRADE.

DESIGN SOIL PRESSURE: CONTINUOUS FOOTING 1,500 PSF ISOLATED FOOTING 1,500 PSF

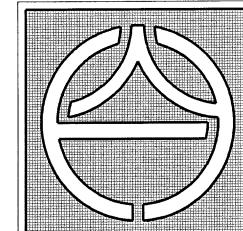
- B. ALL FOUNDATIONS SHALL BE CONSTRUCTED ACCORDING TO THE 2022 CBC, SECTION 1808A. ALL FOOTINGS & FOUNDATIONS SHALL BE CONSTRUCTED ON UNDISTURBED SOIL, COMPACTED FILL MATERIAL OR CONTROLLED LOW-STRENGTH MATERIAL (CLSM). COMPACTED SOIL MATERIAL SHALL BE PLACED IN ACCORDANCE W/THE 2022 CBC, SECTION 1804A. CLSM SHALL BE PLACED IN ACCORDANCE W/ THE 2022 CBC, SECTION 1804A.7 THE TOP SURFACE OF THE FOOTING IS PERMITTED TO HAVE A SLOPE NOT EXCEEDING 2 % FOR FLATWORK & 5 % FOR GRADE.
- C. SLAB BASE & COMPACTION TO BE IN ACCORDANCE W/2022 CBC CHAPTER 18A REQUIREMENTS.
- D. FOR ALL DIMENSIONS, CURBS, SLAB DEPRESSIONS, STOP, FLOOR DRAINS, SINKS, TRENCHES, UNDERFLOOR DUCTS AND CONDUITS, SEE ARCHITECTURAL, MECHANICAL, REFRIGERA-TION, AIR CONDITIONING, PLUMBING & ELECTRICAL DRAW-INGS. TRENCH BACKFILL TO BE A MIN. OF 95% COMPACTION
- E. FOUNDATIONS/FOOTINGS ARE TO BE PLACED IN NEATLY CUT EXCAVATION VOID OF ANY DEBRIS & STANDING WATER.
- F. MOISTURE TRANSMISSION IS OUTSIDE THE SCOPE OF THESE PLANS: CONSULT A WATERPROOFING EXPERT WHERE MOISTURE TRANSMISSION IS A CONCERN.







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