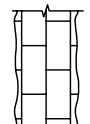


WOOD ROOF DECK NOTES:

1. ROOF SHEATHING SHALL BE 5/8" (MIN) APA STRUCTURAL I RATED SHEATHING, PANEL SPAN RATING 40/20, EXPOSURE 1.
 - A. 1/8" CAR IS REQUIRED BETWEEN ROOF PANELS AT ALL END AND EDGE JOINTS.
2. FASTEN ROOF SHEATHING TO SUPPORTS W/ 8d NAILS EXCEPT AT LOCATION WHERE SLOPE IS 1/4" PER FT. OR GREATER WHERE INTERMEDIATE SUPPORTS ARE REQUIRED AT 12" O.C. (NOMINAL) PAN FOR ADDITIONAL REQUIREMENTS.
3. THE QUANTITY AND SIZE OF FASTENERS CONNECTING WOOD FRAME TO STUDS SHALL BE AS SHOWN IN THE DRAWINGS.
4. LAY ROOF SHEATHING PANELS W/ LONG DIMENSION ACROSS SUPPORTS & SHORT DIMENSIONS STAGERED AS SHOWN:



CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 318-02.
2. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 4000 PSI.
3. ALL EXTERIOR AND FOUNDATION CONCRETE SHALL BE AIR ENTRAINED.
4. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
5. REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60 DEFORMED WITH ACI 318-LATEST EDITION.
6. SPLICES OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI 318-02, UNLESS OTHERWISE NOTED ON DRAWINGS.
7. ALL SLABS-ON-GRADE SHALL BE FIRBR REINFORCED, FIRBR MANUFACTURER AND RATE OF APPLICATION SHALL BE APPROVED PRIOR TO PLACEMENT OF CONCRETE.
8. ANCHOR ROOS SHALL CONFORM TO ASTM F1554, GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.

GENERAL NOTES:

1. THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE REQUIRED TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE EXECUTION OF THE WORK.
2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB PLUMBING AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR RECTANGULAR DIMENSIONS, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON THESE DRAWINGS.
3. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD, AND DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
4. THE CONTRACTOR IS RESPONSIBLE TO BE SEIT, EQUIPPING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO PROTECT THE BUILDING AND ITS CONTENTS. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHELTERING, TIEBACKS, BRACING, GUYE, OR TIEBACKS, SUCH MATERIAL SHALL BE SEIT, EQUIPPING AND STABLE AT ALL TIMES THROUGHOUT THE CONSTRUCTION OF THE PROJECT.
5. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS.
6. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR REGULATIONS, STATE AND LOCAL ACI.

ROOF TRUSS NOTES:

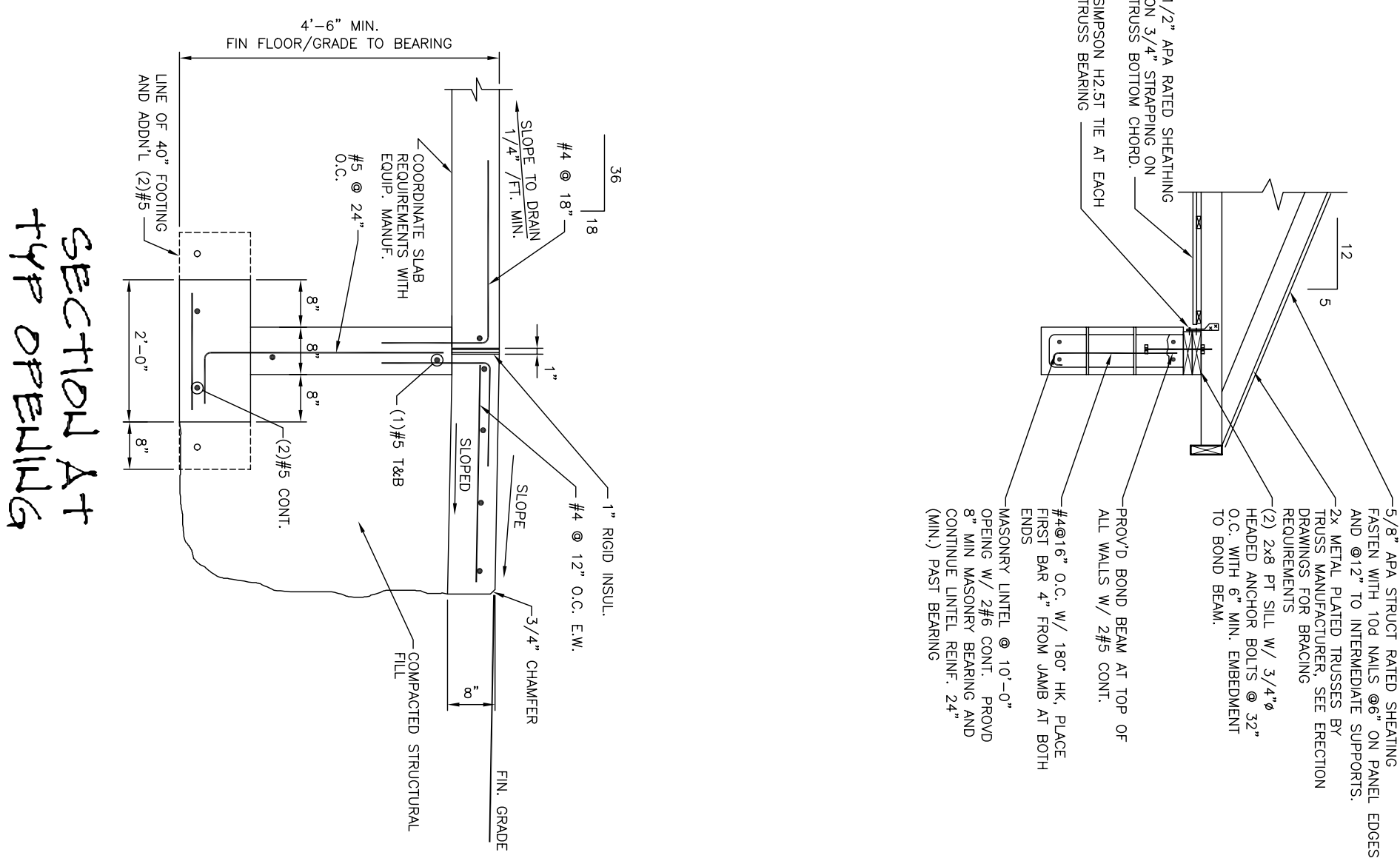
1. ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
 - A. PLUS A UNIFORM TOP CHORD DEAD LOAD = 8 PSF AND
 - B. A UNIFORM BOTTOM CHORD DEAD LOAD = 10 PSF AND
 - C. A UNIFORM WIND UPWIND SURFACE WIND PRESSURE OF 15 PSF AND A HORIZONTAL PRODUCTION OF THE ROOF SURFACE.
 ALL COMPONENTS AND CONNECTIONS FOR THE TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING:
 - CASE 2: 42 PSF APPLIED ACROSS THE ENTIRE ROOF.
 - CASE 2: 60 PSF APPLIED AT ONE SIDE OF THE ROOF.
 - C. WIND LOAD: ROOF W/ 1/2 PSF UNIFORM WIND AND PERPENDICULAR TO ROOF SURFACE. WIND SPEED 70 MPH. WIND DIRECTION SHALL BE 28 PSF IN ZONES 2 AND 3 AND 21 PSF IN ZONE 1. MINIMUM WIDTH OF ZONES 2 AND 3 IS 54".
 - D. WIND LOAD: ROOF W/ 1/2 PSF UNIFORM WIND AND PERPENDICULAR TO ROOF SURFACE. WIND SPEED 70 MPH. WIND DIRECTION SHALL BE 28 PSF IN ZONES 2 AND 3 AND 21 PSF IN ZONE 1. MINIMUM WIDTH OF ZONES 2 AND 3 IS 54".
 - E. LOAD SHALL BE TAKEN AS 3 PSF PER SQUARE FOOT.
 - F. ROOF DEFLECTS FOR UNDER-SLAB PRESSURE SHALL BE LIMITED TO 1/400, UNLESS NOTED OTHERWISE IN PLAN OR SECTION.
 - 2. REQUIRED DIMENSIONAL PARAMETERS ARE SHOWN ON THE DRAWINGS. SITE, GROUND, AND SPECIES OF ALL MEMBERS SHALL BE SELECTED BY THE TRUSS FABRICATOR TO COMPLY WITH THE REQUIREMENTS OF THE AMERICAN WOOD PRESERVE AND ITS SUPPLEMENT BY THE AMERICAN FOREST AND PAPER ASSOCIATION & THE 2001 EDITION OF THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION BY THE TRUSS PLATE INSTITUTE.
 - 3. METAL CONNECTIONS INDICATED ARE STOCK NUMBERS FROM SIMPSON STRONG-TIE REFER TO SPECIFICATIONS SECTION 06100 FOR ACCEPTABLE ALTERNATE SUPPLIERS.
 - 4. THE CONTRACTOR SHALL PROVIDE PERMANENT & TEMPORARY BRACING WOOD TRUSSES. COMMENTARY AND RECOMMENDATIONS BY THE TRUSS PLATE INSTITUTE AND IN ACCORDANCE WITH PLAN SHALL BE TAKEN AS A MINIMUM WHERE INCREASED BRACING IS REQUIRED, THIS SHALL BE PROVIDED IN ADDITION TO WHAT IS SHOWN. ALL BRACING SHALL BE GALVANIZED STEEL UNLESS OTHERWISE SPECIFIED.
 - 5. THE TRUSS SUPPLIER SHALL DESIGN TRUSSES AT THEIR SUPPORTS FOR THE MAXIMUM ALLOWABLE BEARING STRESS OF 425 PSI AND THE PROVIDED BEARING LENGTH. DOUBLE TRUSSES OR SHIP/FIELD TRUSSES SHALL BE PROVIDED WHERE BEARING STRESSES ARE EXCEEDED. TRUSS DESIGNER SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED SHIP/FIELD CONNECTIONS TO BEING WELDED/BRACED.
 - 6. SUBMITTALS:
 - A. PROVIDE DESIGN CALCULATIONS, SHOP DRAWINGS, AND CONNECTIONS TO THE ARCHITECT FOR REVIEW.
 - B. REGISTERED IN THE STATE OF MAINE.
 - C. CONNECTIONS, SIZE AND LOCATION OF BRACING.
 - D. ALL CONNECTIONS SHALL BE APPROVED PRIOR TO SUBMITTING THEM TO THE PROJECT ARCHITECT.
 - 7. FABRICATED TRUSSES SHALL BE INSPECTED AT THE FABRICATION PLANT AND APPROVED TRUSSES SHALL RECEIVE THE TPI MARK OF LICENSE AGREEMENT.
 - 8. CONNECTOR PLATES SHALL BE GALVANIZED.

FOUNDATION NOTES:

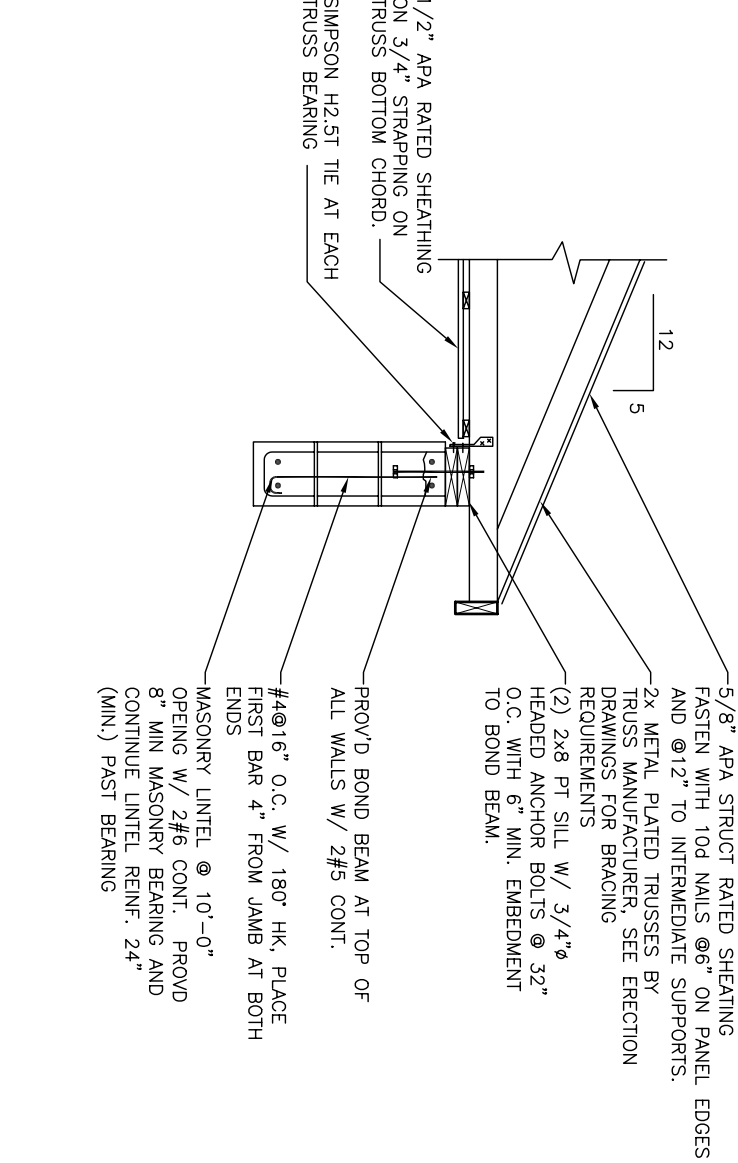
1. FOUNDATION DESIGN IS BASED BC-3000 CHAPTER 18 PRESURIVE SOIL GUIDELINES.
 2. FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE = 1.5 KSF.
 3. FOUNDATIONS SHALL BEAR ON LEIGH SELECT FILL OR UNDISTURBED NATIVE SOILS. PERIMETER FOUNDATIONS SHALL BEAR A MINIMUM OF 4'-6" FROM FINISHED GRADE. SOIL SURFACES ARE TO BE PHOTOLOGGED W/ A MINIMUM OF THREE PASSES, ANY SORT OR UNSURFACE AREAS SHALL BE REMOVED & BACKFILLED WITH COMPACTED STRUCTURAL FILL (SEE NOTE 6).
 4. REMOVE ALL ORGANIC MATERIAL FROM WITHIN THE BUILDING & WITHIN THE TONE OF FOUNDATION PERIMETER. ALL ORGANIC MATERIAL SHALL BE REMOVED TO A MINIMUM OF 18" BELOW FINISHED GRADE. ALL ORGANIC MATERIAL SHALL BE REMOVED TO A MINIMUM OF 2 FEET AWAY FROM PERIMETER AND ASH/POC/SEA.
 5. FILL PLACED WITHIN THE TONE OF FOUNDATION PERIMETER SHALL BE COMPACTED STRUCTURAL FILL AND SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED 18" PER LIFT. EXCEEDING 18" PER LIFT SHALL BE PHOTOLOGGED AND ASH/POC/SEA.
 6. THE CONTRACTOR SHALL DETERMINE ELEVATION TO AT LEAST ONE FOOT BELOW SUBGRADE.
- | SIEVE SIZE | PERCENT FINER |
|------------|---------------|
| NO. 4 | 100 |
| NO. 20 | 30-90 |
| NO. 40 | 10-50 |
| NO. 200 | 0-8 |
7. FILL PLACED WITHIN THE TONE OF FOUNDATION PERIMETER SHALL BE COMPACTED STRUCTURAL FILL AND SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED 18" PER LIFT. EXCEEDING 18" PER LIFT SHALL BE PHOTOLOGGED AND ASH/POC/SEA.
 8. THE CONTRACTOR SHALL DETERMINE ELEVATION TO AT LEAST ONE FOOT BELOW SUBGRADE.
 9. BACKFILL FOUNDATION WALLS WITHIN 3' OF FOUNDATION WALLS WITH GRANULAR BACKFILL. BACKFILL SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED 18" PER LIFT. EXCEEDING 18" PER LIFT SHALL BE PHOTOLOGGED AND ASH/POC/SEA.
 10. BACKFILL BOTH SIDES OF WALLS SIMULTANEOUSLY.

CONCRETE MASONRY NOTES:

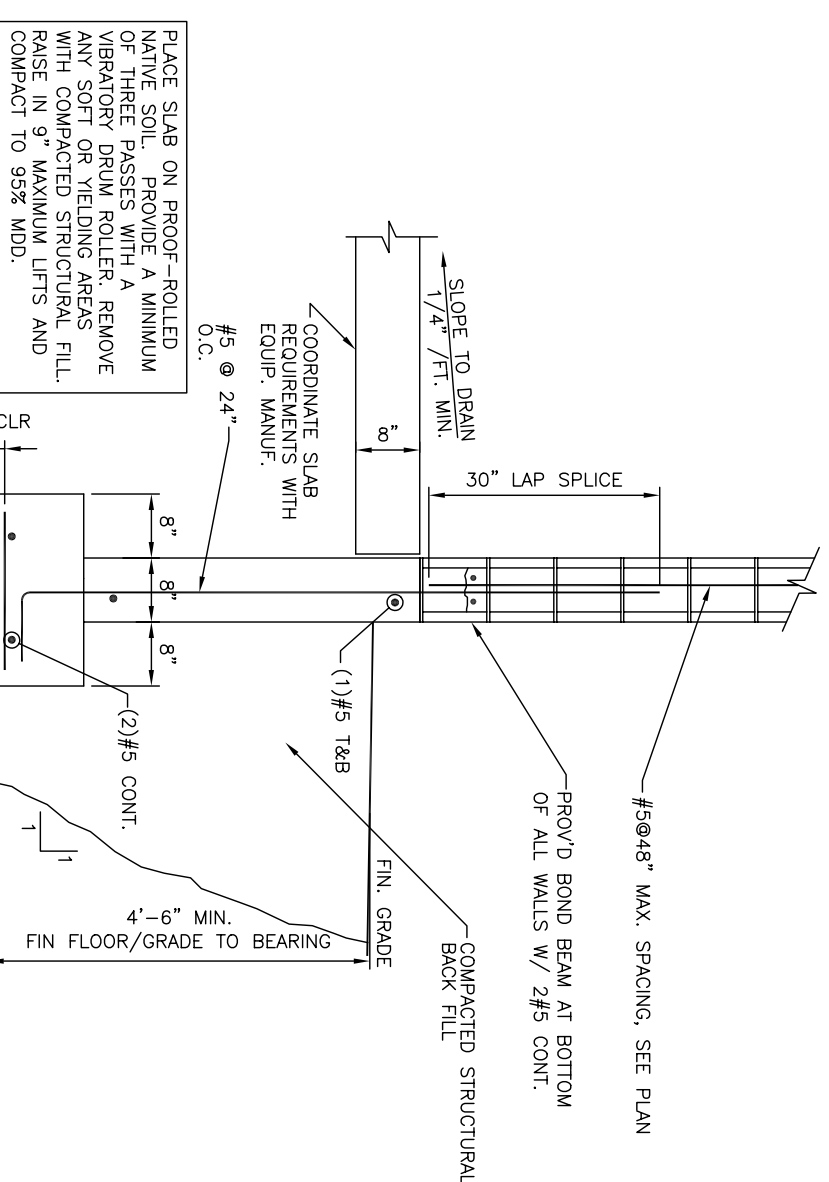
1. ALL MASONRY WORK SHALL BE IN COMPLIANCE WITH ACI 530, "BUILDING CODE REQUIREMENTS FOR MASONRY CONSTRUCTION" AND ACI 530.1, "SPECIFICATIONS FOR MASONRY CONSTRUCTION".
2. CONCRETE MASONRY UNITS (CMU):
 - A. UNITS SHALL BE NOMINAL WEIGHT CELLULAR UNITS CONFORMING TO ASTM C90, EXCEEDING 135 PCF.
 - B. UNITS SHALL BE 1600 PSI IN ACCORDANCE WITH ASTM C140, WITH A UNIT WEIGHT NOT EXCEEDING 135 PCF.
 - C. CONTRACTOR SHALL SUBMIT FOR APPROVAL TEST REPORTS ON MASONRY UNITS AND SHrinkAGE PER ASTM C90 NO LATER THAN 15 WORKING DAYS PRIOR TO THE COMMENCEMENT TO MASONRY CONSTRUCTION.
3. MOISTURE CURE SHALL BE TYPE S AND SHALL CONFORM TO ASTM C270.
4. CONCRETE GROUT SHALL BE HIGH SLUMP (8" +/-) CONCRETE WITH PSI-SIZED AGGREGATE AND SHALL CONFORM TO ASTM C876. GROUT COMPRESSIVE STRENGTH SHALL BE NOT LESS THAN 2000 PSI AT 28 DAYS.
5. GROUING STOP SHALL BE USED UNDER BOND BLOCKS TO CONTROL GROUT PLACEMENT AND SHALL EXCEED TEN (10) FEET. PROVIDE CLEAN-OUTS IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR, WHEN GROUT POUR EXCEEDS 5 FEET.
6. KEY AT THE JOINT IN THE MASONRY BEAMS OR LINTELS SHALL BE DONE IN ONE CONTINUOUS OPERATION.
7. REINFORCING:
 - A. VERTICAL REINFORCING SIZE SHALL BE AS SPECIFIED ON THE DRAWINGS, AND ENDS AND AT A MAXIMUM SPACING OF 48 INCHES ON CENTER.
 - B. WHERE VERTICAL MASONRY REINFORCEMENT IS OBTAINED BY STEEL BEARING OR REINFORCING BARS SHALL BE LAPSPED 48 BAR DIAMETERS OR AS SHOWN ON DRAWINGS.
 - C. LAP SPACING SHALL BE 48 BAR DIAMETERS OR AS SHOWN ON DRAWINGS.
 - D. VERTICAL REINFORCING BARS SHALL BE CENTERED IN THE WALL CELL AND SHALL BE LAPSPED 48 BAR DIAMETERS OR AS SHOWN ON DRAWINGS.
 - E. ACCESSORIES SHALL BE USED FOR SUCH SUPPORTS FOR EXAMPLE REBAR CAGES OR VERTICAL COW COURSE.
 - F. HORIZONTAL JOINT REINFORCING SHALL BE HOT-DIPPED GALVANIZED STANGED IN ALTERNATING COURSES, 16" ON CENTER MAX. VERTICALLY. LADDER SHALL BE CONTINUOUS LAPPED NOT LESS THAN 12" AT ALL SPLICES, INCLUDING CORNERS AND TEES.
8. ALL BOND BLOCKS SHALL BE ANCHOR-OUT TYPE BLOCKS, 1 1/2" MINIMUM HEIGHT, 4" MINIMUM WIDTH, AND SHALL BE PLACED IN ACCORDANCE WITH THE MANUFACTURER'S GROUT-STOP REQUIREMENTS.
9. FOR COLD OR HOT WEATHER CONDITIONS MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1-02/ASCE 5-02 AND ACI 505 AND 306.
10. MASONRY CONTRACTOR SHALL PROVIDE FOR AND COORDINATE WITH OTHER TRADES FOR PLACEMENT OF ALL TIES TO BE EMBEDDED, OR BUILT INTO, THE MASONRY.



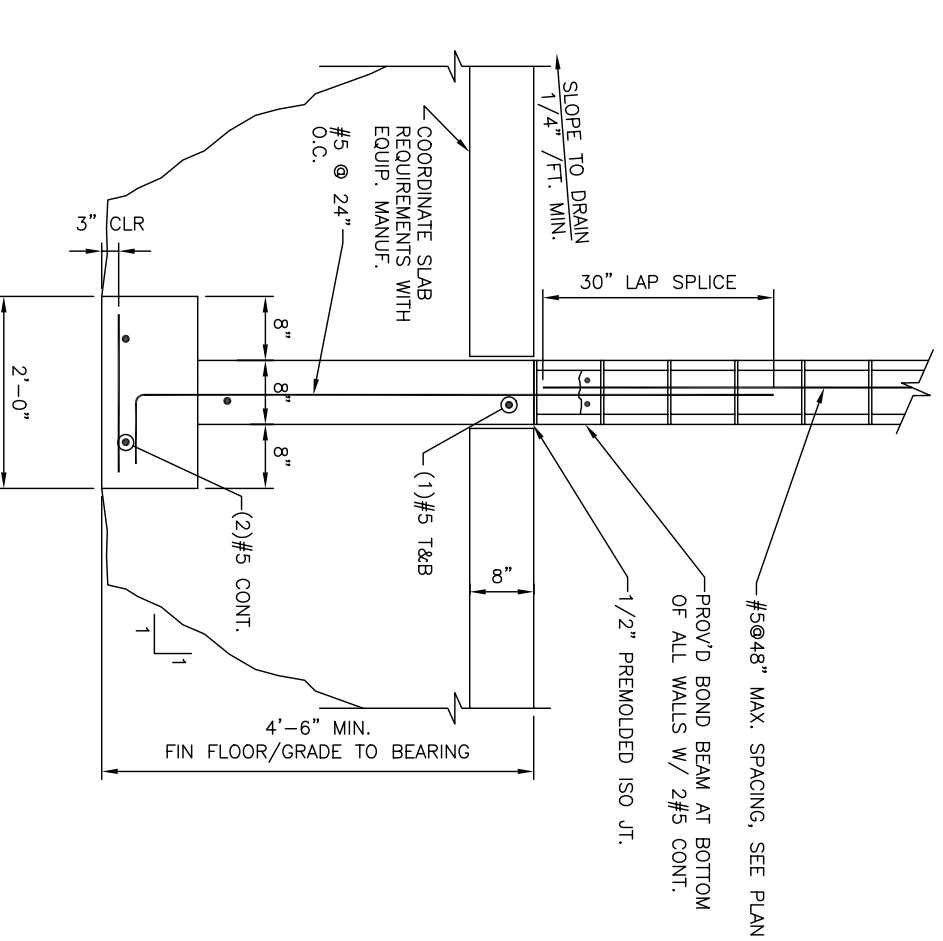
SECTION AT TYP OPENING



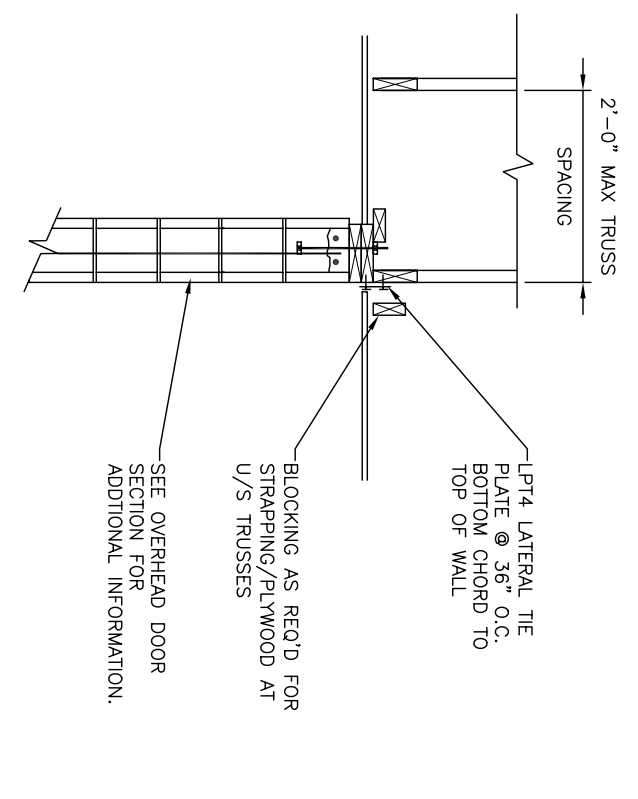
SECTION AT TYP EXT WALL



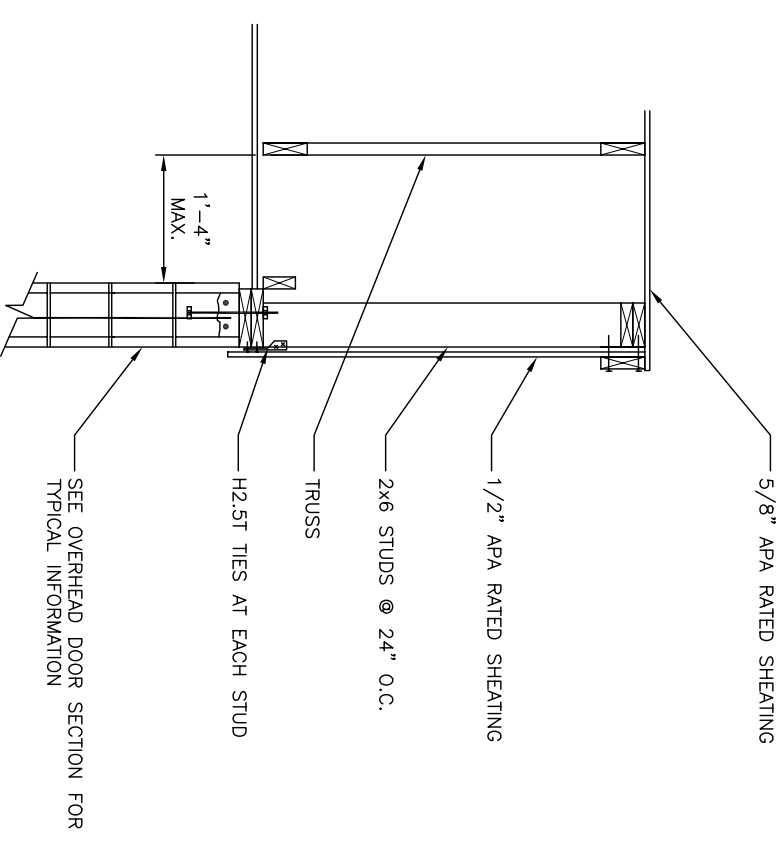
SECTION AT TYP EXT WALL



SECTION AT INTERIOR PARTITION



SECTION AT TYP GABLE



SECTION AT TYP GABLE

FOUNDATION DRAINS REMOVED AT OWNER REQUEST.

NOTE: FOUNDATION DRAINS REMOVED AT OWNER REQUEST.

- PRELIMINARY DESIGN (FOR CLIENT REVIEW)
- DESIGN DEVELOPMENT (FOR CLIENT REVIEW AND COST ESTIMATING)
- CONTRACT DOCUMENTS (FOR PERMITS, BIDS, AND CONSTRUCTION)



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 TEL: (207) 888-0088 FAX: (207) 888-0081

JOB: THE CAR WASH AT WAKEN AVENUE
 DRAWING: STRUCTURAL NOTES / FOUNDATION DETAILS
 JOB NUMBER: *****
 SCALE: 1/4" = 1'-0" O.D.O.
 UPDATED: 22 MARCH '06
 APPROVED BY: [Signature]
 DRAWN BY: TPD

A5