

Wall Thickness	Number of Rows	Horizontal	Vertical
8"	1 @ mid wall	#4s @ 12"	#4s @ 16"
10"	1 @ mid wall	#4s @ 10"	#4s @ 16"
12"	2	#4s @ 16"	#4s @ 16"
14"	2	#4s @ 14"	#4s @ 16"
16"	2	#4s @ 12"	#4s @ 16"
18"	2	#4s @ 10"	#4s @ 16"
20"	2	#5s @ 14"	#5s @ 16"

NOTE: TABLE TO BE USED WHEN REINFORCING HAS NOT BEEN NOTED ON PLANS.

TYPE	SIZE	THICKNESS	REINFORCING
C-1	HSS 4x4x1/4	12"	6#4 E.W. BOTTOM
C-2	HSS 5x5x3/16	12"	7#4 E.W. BOTTOM
C-3	HSS 5x5x3/8	12"	8#4 E.W. BOTTOM
C-4	W10x49	12"	6#4 E.W. BOTTOM

TYPE	SIZE	THICKNESS	REINFORCING
F-1	4'-0" X 4'-0"	12"	6#4 E.W. BOTTOM
F-2	5'-0" X 5'-0"	12"	7#4 E.W. BOTTOM
F-3	6'-0" X 6'-0"	12"	8#4 E.W. BOTTOM
F-4	7'-0" X 7'-0"	12"	6#4 E.W. BOTTOM
F-5	7'-0" X 7'-0"	12"	6#4 E.W. : 13B
F-6	10'-0" X 10'-0"	12"	8#4 E.W. : 13B
F-7	10'-0" X 10'-0"	15"	9#4 E.W. : 13B
F-8	12'-0" X 12'-0"	15"	10#4 E.W. : 13B

A1 SCHEDULES

A3 STRUCTURAL NOTES

A7

- REFERENCE DIVISION 3 FOR CONCRETE STRENGTH REQUIREMENTS AT 28 DAYS PER CAST TYPE.
- ALL INTERIOR 4' SLABS ON GRADE SHALL BE REINFORCED WITH 6 X 6 W/ 4 X W/ 4 WELDED WIRE FABRIC OR MESH. ALL 5' SLABS ON GRADE SHALL BE REINFORCED WITH 6 X 6 W/ 4 X W/ 4 WELDED WIRE FABRIC OR MESH. OTHERWISE NOTED. FOUNDATION TO BE INSTALLED WITH 8" IN DEPTH AND SHALL BE REINFORCED WITH #5 REBAR AT 12" O.C. SPACING EACH WAY.
- FOUNDATION WALL CONTROL JOINTS SHALL BE PLACED AT A MAXIMUM SPACING OF 60'-0". ALIGN FOUNDATION CONTROL JOINTS WITH EXTERIOR MASONRY VENEER JOINTS.
- SLAB ON GRADE AND ELEVATED SLAB CONTROL JOINTS SHALL BE PLACED AS FOLLOWS: AT 4' SLABS SPACING JOINTS 2'-0" MAX. ON CENTER EACH WAY. 5' AND 6' SLABS SPACING JOINTS 1'-0" MAX. ON CENTER EACH WAY. CONTROL JOINTS SHALL BE FILLED WITH SEALANT AT THE CONTROL JOINT OF THE JOINTS.
- CONTRACTOR WILL CHECK WITH ALL TRADES TO ASSURE CORRECT LOCATION, SIZE, LINE AND ELEVATION OF ALL STEERS, BOND-OUTS, ETC. REQUIRED IN CONCRETE FLOORS AND WALLS.
- ALL INTERSECTING CONCRETE WALLS SHALL BE TIED WITH #1 BARS 3'-0" LONG (8"BT - 18") SPACED AT 12" O.C. OUTSIDE FACE ONLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FLOOR DRAIN SETTING FOR ELEVATION AND PLUMBNESS TO ASSURE COMPLETE AREA DRAINAGE.
- ALL FOOTINGS SHALL BEAR ON VIRGIN SOIL OR STRUCTURAL BACKFILL COMPACTED TO A UNIFORM 95% STANDARD DENSITY.
- ALL MECHANICAL EQUIPMENT RESTING ON THE CONCRETE FLOOR SLAB WILL HAVE A 4" HIGH CONCRETE PAD UNDERNEATH REINFORCED WITH #3 BARS AT 18" O.C. EACH WAY.
- ALL STRUCTURAL STEEL BELOW FINISH FLOOR SHALL RECEIVE (2) COATS OF BITUMINOUS MASTIC.
- ADAPTIVES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED. CONCRETE SHALL NOT BE IN DIRECT CONTACT WITH ALUMINUM.
- PROVIDE IN ALL SLABS ON GRADE (2) BARS 4'-0" LONG AT EACH REINFORCED CORNER AND BOTH SIDES OF DOOR OPENINGS.
- FOUNDATION WALL REINFORCING WILL BE ADJUSTED AS REQUIRED NOT TO INTERFERE WITH BASE PLATE ANCHOR BOLTS.
- REFER TO A03 318 (LATEST EDITION) FOR MINIMUM CONCRETE COVER FOR REINFORCING STEEL.
- UNLESS OTHERWISE NOTED, REINFORCING LAP SPICES SHALL BE A03 CLASS B SPICES USING THE FOLLOWING LAP LENGTHS:

BAR SIZE (ASTM)	3	4	5	6	7	8	9	10	11	14
LAP LENGTH (IN)	14	18	23	28	36	43	49	62	74	

- COORDINATE SLAB DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
- DRILLED-IN ANCHOR BOLTS OR REBAR DOWELS SHALL BE INSTALLED AS FOLLOWS:
 - LOCATE ANCHOR BOLTS OR DOWELS TO AVOID CUTTING EXISTING REBAR.
 - DEPTH IS BASED ON A CLEAN HOLE WITH ROUGH SIDES. ROTARY REPAIR EQUIPMENT AND COURSE ROCK CUTTING CURSES ARE REQUIRED. DIAMOND CORE BITS SHOULD BE AVOIDED AS EMBEDMENT LENGTH MAY NEED TO BE INCREASED. HOLE SIZE TO BE PER MANUFACTURER'S RECOMMENDATIONS.
 - CLEAN HOLES WITH COMPRESSED AIR OR VACUUM REMOVE ANY FREE STANDING WATER AND ALLOW HOLE TO DRY.
 - GROUT ANCHOR BOLTS OR DOWELS WITH HIT MIX EP-40 ADHESIVE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. FILL THE ADHESIVE CAPSULE MAY BE SUBSTITUTED FOR THE HIT MIX EP-40 ADHESIVE.

E3 FOUNDATION NOTES

- PORTIONS OF STEEL FRAMING TO RECEIVE FIREPROOFING SHALL BE SHIPPED UNPRIMED & UNPAINTED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS.
- MINIMUM LOADING REQUIREMENTS:
 - ROOF LOADS: (EXCEPT AT DRIFTING SNOW LOCATIONS AND THOSE LISTED BELOW)
 - LIVE LOAD: 60.0 P.S.F. (IMPROPRIATE FACTOR = 1.0 EXPOSURE FACTOR = 1.0)
 - DEAD LOAD: 25.0 P.S.F.
 - DRIFTING SNOW MECHANICAL UNITS AND SPECIAL CONDITIONS:
 - SEE STRUCTURAL DRAWING S-103 FOR DRIFTING SNOW LOAD DISTRIBUTION DIAGRAMS, WEIGHT AND LOCATION OF ROOF-TOP HVAC UNITS, AND SPECIAL CONDITIONS INFLUENCING THE DESIGN REQUIREMENTS OF THE STRUCTURAL SYSTEMS.
 - FLOOR LOADS:
 - OFFICE/CONFERENCE: LIVE 50 PSF DEAD 15 PSF
 - STORAGE AREAS: LIVE 150 PSF DEAD 15 PSF
 - ADDITIONAL LIVE LOAD FOR OFFICE PARTITIONS: LIVE 20 PSF
- WIND LOADS:
 - FACTORS:
 - BASIC WIND SPEED: 100 MPH, EXPOSURE CATEGORY: 'B'
 - IMPORTANCE FACTOR: 1.0 AVERAGE BUILDING HEIGHT: 25' +/-
 - MINIMUM ROOF UPLIFT DESIGN LOADS:
 - FIELD: 17 PSF
 - PERIMETER (7' WIDE): 20 PSF
 - CORNERS (7' X 7'): 20 PSF
 - SEISMIC COEFFICIENTS:
 - RESPONSE SPECTRAL ACC. (0.2 sec): S_v = 0.269g
 - RESPONSE SPECTRAL ACC. (1.0 sec): S_v = 0.089g
 - SITE COEFFICIENTS: F₁ = 1.20; F₂ = 1.170
 - MAX. CONSIDERED EARTHQUAKE ACC @ 5% DAMPED DESIGN: S_{ds} = 0.296 S_v = 0.111
 - BUILDING CATEGORY: II
 - SEISMIC USE GROUP: I
 - SEISMIC DESIGN CATEGORY: FOR 0.1 AND 1.0 SECONDS: B
- STRUCTURAL/SEISMIC RESISTING SYSTEM:
 - TYPICAL -
 - ORDINARY STEEL MOMENT FRAMES:
 - RESPONSE MODIFICATION FACTOR (R) = 3 1/2
 - DEFLECTION AMPLIFICATION FACTOR (C2) = 3
 - ORDINARY STEEL CENTRICALLY BRACED FRAMES:
 - RESPONSE MODIFICATION FACTOR (R) = 5
 - DEFLECTION AMPLIFICATION FACTOR (C2) = 4 1/2
 - BEARING WALL SYSTEM:
 - ORDINARY STEEL MOMENT FRAMES:
 - RESPONSE MODIFICATION FACTOR (R) = 3 1/2
 - DEFLECTION AMPLIFICATION FACTOR (C2) = 3
- ALL STRUCTURAL STEEL BEAMS, COLUMNS SHALL CONFORM TO ASTM A992, Fy=50ksi ALL STEEL TUBE COLUMNS SHALL CONFORM TO ASTM A500 GRADE 'B', Fy=48ksi ALL MISCELLANEOUS STEEL SHAPES ANGLES, ETC. SHALL CONFORM TO ASTM A36 Fy=36ksi.
- ALL STRUCTURAL WOOD TO CONFORM TO THE LATEST PDS STANDARDS.
- ALL PLYWOOD TO CONFORM TO THE LATEST PDS STANDARDS.
- SEE ARCHITECTURAL WALL SECTIONS AND DETAILS FOR MISCELLANEOUS STEEL.
- ALL STEEL BEAMS RESTING ON MASONRY WALLS SHALL HAVE BEARING PLATES AND (3) COURSES OF FILLED BLOCK UNDERNEATH.
- PROVIDE AND INSTALL DOUBLE 2X8 HEADER AND RAIL FRAMING AROUND ALL ROOF PENETRATIONS. SEE MECHANICAL PLANS AND DETAILS AND ROOF PLANS AND DETAILS.
- STEEL ROOF DECK AND FASTENING REQUIREMENTS SHALL BE AS SPECIFIED IN DIVISION 5 OF THE SPECIFICATIONS.
- ALL BASE PLATE ANCHOR BOLTS IN NEW CONSTRUCTION WILL BE #4" Ø X 30" WITH A MINIMUM OF 9" EMBEDMENT AND A STANDARD 2" HOOK UNLESS OTHERWISE NOTED. SEE SB-9001 FOR SPECIAL EMBEDMENT DETAIL IN BRICK SHELF BEAMS.
- ALL SHILL PLATES SHALL BE FASTENED TO FOUNDATION WITH 1/2" Ø ANCHOR BOLTS AT 4' O.C. UNLESS OTHERWISE NOTED.
- ALL LOCATIONS BETWEEN SUPPORTS PROVIDE 3X8" WEB STIFFENERS UNLESS OTHERWISE NOTED ON BOTH SIDES OF STEEL BEAMS AT ALL LOCATIONS WHERE STEEL BEAM SUPPORT COLUMNS ABOVE.
- ALL STEEL TUBE PIPE OR STRUCTURAL STEEL COLUMNS SUPPORTED BY A STEEL BEAM SHALL HAVE BASE PLATES WELDED TO THE BEAM ON ALL SIDES.
- SPECIAL INSPECTIONS: AN INDEPENDENT INSPECTIONS PROGRAM AND SCHEDULE SHALL BE ARRANGED BY THE BUILDING OWNER AND THE STRUCTURAL ENGINEER OR RECORD.
- A QUALIFIED PERSON APPROVED BY THE BUILDING OFFICIALS SHALL MAKE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC-2003 AND AS DEFINED IN THE SPECIFICATIONS. SPECIAL INSPECTIONS SHALL BE PERFORMED BY THE CONTRACTOR BEFORE THE APPROVED DRAWINGS AND SPECIFICATIONS.
- INSPECTION REPORTS SHALL BE SUBMITTED TO THE OWNER BEFORE THE END OF EACH DAY OF INSPECTION AND SPECIAL INSPECTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR IMMEDIATELY UPON COMPLETION OF THE INSPECTION.
- THE FOLLOWING TYPES OF WORK SHALL RECEIVE SPECIAL INSPECTION OVERSIGHT: INSTALLATION OF HIGH STRENGTH BOLTS, WELDING STRUCTURAL FRAME AND DETAILS, INSTALLATION OF REINFORCING STEEL, CONCRETE PLACEMENT, STRUCTURAL FILL PLACEMENT, AND FABRICATION PROCESSES OF COLD METAL FRAMING ELEMENTS AND ASSEMBLIES.
- SITE PREPARATION FOR THE FOUNDATION SHALL BE IN ACCORDANCE WITH THE OWNER SUPPLIED GEOTECHNICAL REPORT AND RECOMMENDATIONS. REFERENCE SHALL BE MADE TO THE GEOTECHNICAL REPORT AND RECOMMENDATIONS.

- ALL WORK SHALL BE DONE IN COMPLIANCE IBC-2003 WITH PROBE ISLAND SUPPLEMENTAL.
- ALL WORK SHALL BE DONE IN AN ORDINARY AND PROFESSIONAL MANNER. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK TO BE DONE BY SUBCONTRACTORS. LOCAL AUTHORITIES STATE AGENCIES AND/OR UTILITY COMPANIES WHICH MAY HAVE JURISDICTION OVER THIS PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING, HANDLING, AND STORAGE OF ALL MATERIALS TO REMAIN THE PROPERTY OF THE OWNER WITH THE OWNERS REPRESENTATIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS AND ALL TEMPORARY SHORING, PROTECTIVE MEASURES DURING BUILDING OPERATIONS, PROTECTION OF SANITARY PROVISIONS OF EMPLOYEES AND SUBCONTRACTORS AS REQUIRED FOR THE DURATION OF THE CONTRACT.
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, HVAC, PLUMBING, ELECTRICAL, CIVIL SITE DRAWINGS AND MATERIAL SPECIFICATIONS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER OF RECORD (SER) AND RECEIVE APPROVAL PRIOR TO FABRICATION AND ERECTION OF MATERIALS. THE DETAILING OF ALL WORK IS PART OF THE CONTRACT AND SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CODES SPECIFIED.
- REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED. ELECTRONIC DRAWINGS WILL NOT BE PROVIDED TO THE CONTRACTOR UNLESS THE SER IS COMPENSATED FOR THE FILES.
- ALL WORK SHALL REQUIRE ADHERENCE TO THE REQUIREMENTS OF ASTM DESIGNATION E-289 ENTITIES. RECOMMENDED PRACTICE FOR INSPECTION AND TESTING AGENCIES FOR CONCRETE AND STEEL USED IN CONSTRUCTION.

F7 GENERAL NOTES

- EXCAVATION AND GRADING - INCLUDES THE REMOVAL OF BELOW-GRADE BORROW AND MISCELLANEOUS MATERIALS FOR THE INSTALLATION OF PIPING AND OTHER SUBSURFACE DRAINAGE FACILITIES INDICATED ON THE DRAWING.
- CONTRACTOR TO PROTECT ALL FEATURES INDICATED NOT TO BE DISTURBED DURING CONSTRUCTION.
 - CONTRACTOR SHALL PROTECT EXISTING STRUCTURES INCLUDING, BUT NOT LIMITED TO, BUILDINGS, FOUNDATIONS, FOOTINGS, FENCES, ROADS, PAVING, ETC. CONTRACTOR SHALL REPAIR/REPLACE DAMAGES TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL PROVIDE BRACING OF SOILS SUPPORTING EXISTING STRUCTURES TO PREVENT AGAINST LOSS OF SUPPORT.
 - CONTRACTOR TO IDENTIFY AND PROTECT ABOVE AND BELOW-GROUND UTILITIES WHICH ARE NOT TO BE DISTURBED.
 - CONTRACTOR SHALL PROTECT BENCH MARKS, SURVEY REFERENCE MARKS, AND PROPERTY CORNERS.
 - CONTRACTOR SHALL COMPLY WITH ALL CITY, STATE AND FEDERAL REGULATIONS FOR THE DISPOSAL OF EXCAVATED MATERIALS.
 - NOTIFY OWNER IMMEDIATELY IF ROCK IS ENCOUNTERED. DO NOT PROCEED WITH ROCK EXCAVATION UNTIL AUTHORIZED BY THE OWNER.
- BACKFILLING AND COMPACTION - INCLUDES THE INSTALLATION OF SUBGRADE AND FINISH GRADE MATERIAL, FILL AND THE COMPACTION THEREOF:
- ORDINARY FILL: NATIVE OR IMPORTED MATERIAL, WELL GRADED, FREE OF ORGANIC MATERIAL AND FOREIGN MATTER HAVING A DRY DENSITY NOT LESS THAN 115 POUNDS PER CUBIC FOOT ON-SITE EXCAVATION MATERIAL MEETING THE ABOVE MAY BE USED.
 - DIAMANE FILL: WASHED, EVENLY-GRADED MIXTURE OF CRUSHED STONE, OR CRUSHED/UNCRUSHED GRAVEL, WITH 100 PERCENT PASSING A 1-1/2 INCH SIEVE AND NOT MORE THAN 5 PERCENT PASSING A NO. 4 SIEVE.
 - PROOF COMPACT THE BOTTOM OF THE EXCAVATION BY MAKING (2) PASSES WITH A VIBRATORY PLATE COMPACTOR PRIOR TO THE INSTALLATION OF DRAINAGE PIPING.
 - COMPACT EITHER ORDINARY OR DIAMANE FILL IN CONTINUOUS LAYERS NOT EXCEEDING EIGHT (8) INCH LIFTS (CONTRACTOR TO MAINTAIN OPTIMUM MOISTURE CONDITIONS TO ENSURE COMPACTION TO 98 PERCENT MAXIMUM DRY DENSITY) (REFER TO ASTM D898 FOR COMPACTOR PROCEDURES)
 - FILTER FABRIC USE AMPHIBIOUS NON-ORGANIC FILTER FABRIC. INSTALL CONTINUOUSLY ALONG LENGTH OF DRAINAGE PIPING INSTALLATIONS. LAP MATERIAL A MINIMUM OF 12 INCHES AT ALL SPICES AND JOINTS.
- DRAINAGE PIPING - INCLUDES THE INSTALLATION OF PERFORATED AND NON-PERFORATED PVC DRAINAGE PIPE FOR SUBSURFACE STORMWATER TRANSPORT. REFER TO OWNER PROVIDED GEOTECHNICAL REPORT FOR SUBSURFACE DRAINAGE REQUIREMENTS.
- PIPING TO BE ADS BRAND 12 OR ENGINEER-APPROVED EQUAL, RIGID PVC PIPE OR POLYETHYLENE PIPE.
 - CONTRACTOR TO PROVIDE ALL FITTINGS, COUPLINGS, ETC. FOR A COMPLETE INSTALLATION.

D7 SITE NOTES

- THE EXCAVATION AND EARTHWORK SHALL ONLY EXPOSE THE MINIMUM AMOUNT OF SOIL NEEDED TO PROMOTE THE EFFICIENT AND PROGRESSIVE SITE CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF HAY BALESS AND SILT FENCE BARRIERS AS REQUIRED TO PROTECT WATER COURSES AND DOWNSLOPE AREAS STATE REGULATIONS.
- ON-SITE TOPSOIL REMOVED DURING CONSTRUCTION AND STOCKPILED FOR LATER USE SHALL BE SEEDED, MULCHED, SECURED AND PROTECTED BY SILT FENCE BARRIERS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK AND SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES DUE TO SITE CONDITIONS.
- THE CONTRACTOR SHALL COMPLY WITH MINE DUG SAFE REQUIREMENTS.

B7 MASONRY NOTES

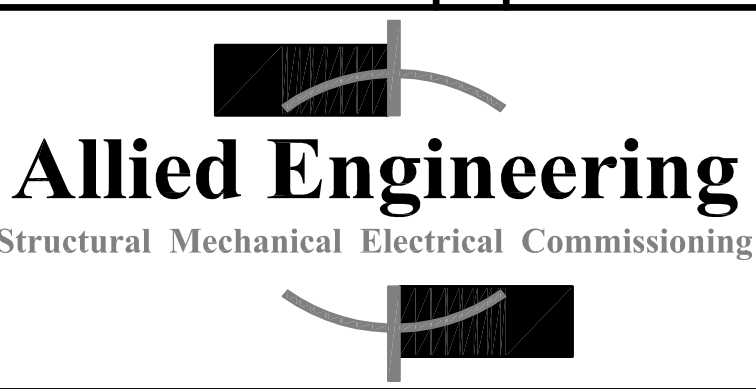
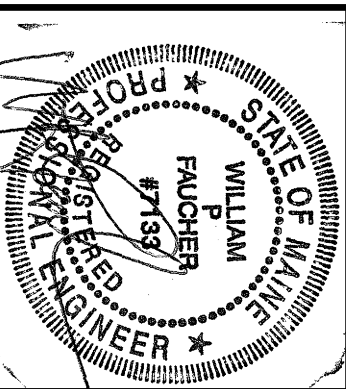
- INSTALL FOR ALL OPENINGS AND PENETRATIONS IN 4 INCH VENEER WALLS UP TO 3'-11" WIDE (UNLESS OTHERWISE NOTED), 4X3 1/2X 1/2X 1/4" STEEL ANGLE LINTEL. FOR ALL OPENINGS AND PENETRATIONS BETWEEN 4'-0" AND 8'-0" WIDE (UNLESS OTHERWISE NOTED) (1) 1/2X 1/2X 5/16" STEEL ANGLE LINTEL.
- ALL CONCRETE MASONRY OR BRICK UNITS SHALL HAVE 12" (MIN) END BEARING UNLESS OTHERWISE NOTED.
- PROVIDE VERTICAL CONTROL, EXPANSION OR CONTRACTION JOINTS SPACED AT 15'-0" O.C. (MAX) AND LOCATE JOINTS AT EACH SIDE OF DOOR OPENINGS WHERE POSSIBLE. CONTROL JOINTS FOR ALL EXTERIOR MASONRY WALLS WILL BE AS INDICATED IN THIS NOTE OR AS SHOWN ON EXTERIOR ELEVATIONS.
- LAY UNITS IN RUNNING BOND; CORNERS SHALL HAVE A STANDARD BOND BY OVERLAPPING UNITS.
- MORTAR: TYPE S.
- WET MASONRY WALLS THOROUGHLY FOR 3 CONSECUTIVE DAYS IMMEDIATELY AFTER PLACEMENT. IF TEMPERATURES ARE WILL BE ABOVE 60°F DURING THE DAY.
- NO EXPANSION BOLTS WILL BE ALLOWED IN MASONRY WALLS. (CHEMICAL ANCHORS ONLY)
- MASONRY LAY IN OUTSIDE AIR TEMPERATURES BELOW 40°F SHALL BE PROTECTED IN ACCORDANCE WITH THE PROVISIONS OF THE TYPICAL RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR COLD WEATHER MASONRY.
- ALL MASONRY BLOCK CORERS BELOW FINISH FLOOR SHALL BE FILLED SOLID WITH CONCRETE.

NOTES AND SCHEDULES

DELTA ROOFING
PORTLAND, MAINE

Date:	8/9/2006
Drawn By:	PED
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Project Mgr:	WPF
Project No:	06029
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NUMBER	DATE	BY	DESCRIPTION



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ISSUED FOR CONSTRUCTION