2.01 MATERIALS 1.00 STANDARD SPECIFICATIONS 3.01 1.03 PRODUCT HANDLING 1.02 SUBMITTALS 1.01 QUALIFICATIONS A. STEEL W AND C SHAPES - ATSM A992.
B. STEEL BARS, PLATES, ANGLES - ASTM A36.
C. STRUCTURAL TUBES AND COLUMNS - ASTM A500, GRADE B.
D. STRUCTURAL PIPE - ASTM A53, TYPE E, GRADE B,
SCHEDULE 40.
E. HIGH STRENGTH BOLTS ¾" ASTM A-325, TYPE I OR 2.
F. ANCHOR BOLTS - ASTM A-307, GRADE A.
G. THREADED ROD - ASTM A36.
H. WELDING TO BE PERFORMED WITH 70 ks WIRE OR
ELECTRODES. INTENTIONALLY LEFT BLANK B. PROTECT STEEL FROM CORROSION. I. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO: GENERAL 2. ROOF DESIGN LOADS PART 2 - PRODUCTS WELDING PROCEDURES, WELDERS, WELDING OPERATIONS AND TACKING: QUALIFIED IN ACCORDANCE WITH AWS CODE. FABRICATION, ERECTION, AND WELDING; IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN ADOPTED JUNE 1989, INCLUDING ALL PUBLISHED SUPPLEMENTS. A.I.S.C. STRUCTURAL BOLTING OF STRUCTURAL JOINTS SHALL BE IN ACCORDANCE WITH "AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", LATEST EDITION. WELDING--IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE", AWS DI.I, LATEST EDITION. STORE STRUCTURAL STEEL MEMBERS AT THE PROJECT SITE ABOVE GROUND ON PLATFORMS, SKIDS, OR OTHER SUPPORTS. PART 3 - EXECUTION FABRICATION ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR (G.C.) AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY CONDITIONS DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS AND ALSO ANY CONDITIONS THAT PREVENT THE CONTRACTOR'S COMPLETION OF THE WORK AS SHOWN ON THE CONSTRUCTION DRAWINGS. LIMITED TO:

-IBC BUILDING CODE 2009 ED

-ANSI-ASCE 7-05

-ACI 3 I 8-05 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"

-ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"

-AISC STEEL CONSTRUCTION MANUAL 9TH ED ASD
-AISI COLD FORMED STEEL DESIGN MANUAL
-ANSI-AF\$PA NDS-2005 FABRICATE STRUCTURAL STEEL IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND THIS SECTION OF THE SPECIFICATIONS. THESE DRAWINGS DO NOT SHOW SIZE, LOCATION OR TYPE OF OPENING IN THE FOUNDATION SYSTEM FOR ELECTRICAL, PLUMBING OR MECHANICAL EQUIPMENT. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THESE ITEMS. WIND LOADS: BASED ON WIND SPEED OF 100 MPH, EXP. B, $\lambda = 1.0, \, \text{SIMPLIFIED PROCEDURE}.$ UNLESS OTHERWISE NOTED, DETAILS, SECTIONS, AND NOTES SHOWN ON ANY DRAWING SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR DETAILS. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH ANY ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, IN ADDITION TO SPECIFICATIONS AND ANY SHOP DRAWINGS PROVIDED BY SUBCONTRACTORS AND SUPPLIERS. ALL SHOP DRAWINGS PROVIDED BY OTHERS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION OF MATERIAL OR THE PURCHASE OF NON-RETURNABLE STOCK. DIMENSIONAL REVIEW IS THE CONTRACTOR'S RESPONSIBILITY. STRUCTURAL NOTES SNOW LOAD
DEAD LOAD
TOTAL ROOF LOAD STEEL NOTES WORK.

WORK.

COLD-WEATHER REQUIREMENTS: COMPLY WITH THE FOLLOWING PROCEDURES FOR MASONRY REPAIR AND MORTAR-JOINT POINTING: PROCEDURES FOR MASONRY REPAIR AND MORTAR-JOINT POINTING: I. WHEN AIR TEMPERATURE IS BELOW 40 DEG F (4 DEG C), HEAT MORTAR INGREDIENTS, MASONRY REPAIR MATERIALS, AND EXISTING MASONRY WALLS TO PRODUCE TEMPERATURE IS BETWEEN 40 AND I 20 DEG F (4 AND 49 DEG C).

2. WHEN MEAN DAILY AIR TEMPERATURE IS BETWEEN 25 AND 40 DEG F (MINUS 4 AND 4 DEG C), COVER COMPLETED WORK WITH WEATHER-RESISTANT, INSULATING BLANKETS FOR 48 HOURS AFTER REPAIR AND POINTING.

3. WHEN MEAN DAILY AIR TEMPERATURE IS BELOW 25 DEG F (MINUS 4 DEG C), PROVIDE ENCLOSURE AND HEAT TO MAINTAIN TEMPERATURES ABOVE 32 DEG F (0 DEG C) WITHIN THE ENCLOSURE FOR 48 HOURS AFTER REPAIR AND POINTING.

C. HOT-WEATHER REQUIREMENTS: PROTECT RESTORATION WORK WHEN TEMPERATURE AND HUMIDITY CONDITIONS PRODUCE EXCESSIVE EVAPORATION OF WATER FROM MORTAR AND PATCHING MATERIALS. PROVIDE ARTIFICIAL SHADE AND WIND BREAKS AND USE COOLED MATERIALS AS REQUIRED. DO NOT APPLY MORTAR TO SUBSTRATES WITH TEMPERATURES OF 90 DEG F (32 DEG C) AND ABOVE.

D. PREVENT GROUT OR MORTAR USED IN REPOINTING AND REPAIR WORK FROM STAINING FACE OF SURROUNDING MASONRY AND OTHER SURFACES.

E. PROTECT SILLS, LEDGES, AND PROJECTIONS FROM MORTAR IN CONTACT WITH EXPOSED MASONRY AND OTHER SURFACES. 3.03 PAINTING 3.02 ERECTION I.2 DELIVERY, STORAGE, AND HANDLING
A. DELIVER OTHER MATERIALS TO PROJECT SITE IN MANUFACTURER'S
ORIGINAL AND UNOPENED CONTAINERS, LABELED WITH TYPE AND NAME
OF PRODUCTS AND MANUFACTURERS.
B. STORE CEMENTITIOUS MATERIALS OFF THE GROUND, UNDER COVER,
AND IN A DRY LOCATION.
C. STORE AGGREGATES, COVERED AND IN A DRY LOCATION, WHERE
GRADING AND OTHER REQUIRED CHARACTERISTICS CAN BE MAINTAINED
AND CONTAMINATION AVOIDED.
D. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR MINIMUM
AND MAXIMUM TEMPERATURE REQUIREMENTS FOR STORAGE. STRUCTURAL $_{\cdot}^{\bigcirc}$ CLAY MASONRY I.3 PROJECT CONDITIONS
A. DO NOT REPOINT MORTAR JOINTS OR REPAIR MASONRY UNLESS AIR
TEMPERATURE IS BETWEEN AND 40 AND 80 DEG F (4 AND 27 DEG C)
AND WILL REMAIN SO FOR AT LEAST 48 HOURS AFTER COMPLETION OF I.I SUMMARY
A. THIS SECTION INCLUDES CUTTING AND PATCHING OF EXISTING CLAY MASONRY. PART 2 - PRODUCTS PART I - GENERAL BOLTS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND BROUGHT TO "SNUG TIGHT" CONDITION, ALL PLIES OF JOINT IN FIRM CONTACT, IN ACCORDANCE WITH SECTION &u (C) OF THE BOLT SPECIFICATION OF SECTION 1.01 C OF THIS SPECIFICATION. ENLARGEMENT OF HOLES BY BURNING WITH A TORCH SHALL NOT BE ALLOWED. ALL STEEL WITH BURNT HOLE ENLARGEMENTS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. SURFACE PREPARE ALL FABRICATED STEEL TO RECEIVE SHOP PRIME (ONLY), TO A MINIMUM OF HAND TOOL CLEAN OR EQUIVALENT AS DICTATED BY CONDITION OF PRODUCT AT TIME OF PAINTING. SHOP PAINT PREPARED SURFACES OF ALL STEEL WORK WITH FABRICATOR'S STANDARD RUST INHIBITIVE PAINT, MINIMUM 2.0 MIL THICKNESS, COMPATIBLE WITH BASE COAT. TEMPORARY BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO HOLD THE STEEL IN A HORIZONTAL AND VERTICAL PLANE UNTIL PERMANENT BOLTING HAS BEEN COMPLETED. TEMPORARY CONNECTIONS SHALL BE ADEQUATE TO SAFELY SUPPORT ALL DEAD LOAD AND ERECTION IMPOSED STRESSES. STEEL CONT. MASONRY,

DUNDING MASONRY.
RY THAT SURROUNDS
ORCEMENT, LINTELS, AND
SED CONDITION.
SOIL FROM SALVAGED BRICK
TORE BRICK FOR REUSE.
OVAL AREAS BY REMOVING
REPARATION FOR

PORTIONS: MIX MORTAR MATERIALS IN THE FOLLOWING S, OR IN CONFORMANCE WITH MORTAR ANALYSIS

MORTAR: THOROGHLY MIX CEMENTITIOUS AND TERIALS TOGETHER BEFORE ADDING ANY WATER. THEN NG ONLY ENOUGH WATER TO PRODUCE A DAMP, NG ONLY ENOUGH WATER TO PRODUCE A DAMP, IX THAT WILL RETAIN ITS FORM WHEN PRESSED INTO A MORTAR IN THIS DAMPENED CONDITION FOR 1 TO 2 MAINING WATER IN SMALL PORTIONS UNTIL REACHING E DESIRED CONSISTENCY. USE MORTAR WITHIN 30 ALMIXING; DO NOT RETEMPER OR USE PARTIALLY

ADMIXTURES OF ANY KIND IN MORTAR, UNLESS

INSTALL NEW OR SALVAGED BRICK TO REPLACE REMOVED BRICK. FIT REPLACEMENT UNITS INTO BONDING AND COURSING PATTERN OF EXISTING BRICK. IF CUTTING IS REQUIRED, USE A MOTOR-DRIVEN SAW DESIGNED TO CUT MASONRY WITH CLEAN, SHARP, UNCHIPPED EDGES. LAY REPLACEMENT BRICK WITH COMPLETELY FILLED BED, HEAD, AND COLLAR JOINTS. BUTTER ENDS WITH SUFFICIENT MORTAR TO FILL HEAD JOINTS AND SHOVE INTO PLACE. WET CLAY BRICKS THAT HAVE ASTM C 67 INITIAL RATES OF ABSORPTION (SUCTION) OF MORE THAN 30 G PER 30 SQ. IN. PER MIN. (30 G PER 194 SQ. CM PER MIN.). USE WETTING METHODS THAT ENSURE UNITS ARE NEARLY SATURATED BUT SURFACE DRY WHEN LAID. MAINTAIN JOINT WIDTH FOR REPLACEMENT UNITS TO MATCH EXISTING UNITS.

1. TOOL EXPOSED MORTAR JOINTS IN REPAIRED AREAS TO MATCH JOINTS OF SURROUNDING EXISTING BRICKWORK.

2. RAKE OUT MORTAR USED FOR LAYING BRICK BEFORE MORTAR SETS AND POINT NEW MORTAR JOINTS IN REPAIRED AREA TO COMPLY WITH REQUIREMENTS FOR REPOINTING EXISTING MASONRY. BEFORE MORTAR SETS

D AREA TO COMPLY WITH

ASONRY.

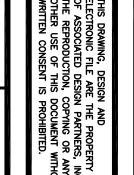
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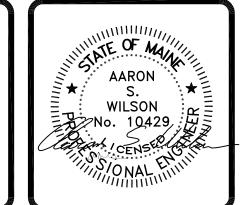
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NOTES ISSUED FOR PERMITTING





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