Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 09/08/15

PRINTED: Jul 28, 2015

COOLING TOWER FRAMING PLAN

SCALE: 1/4" = 1'-0"

1 SECTION

1/2" = 1'-0"

2 SECTION

1/2" = 1'-0"

A DETAIL

1" = 1'-0"

B DETAIL

1" = 1'-0"

C DETAIL

1 1/2" = 1'-0"

TYPICAL W8 BEAM TO W8 BEAM CONNECTION DETAIL

SCALE: 1 1/2" = 1'-0"

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL PLANS AND EQUIPMENT DRAWINGS FOR DIMENSIONS NOT SHOWN. REFERENCE MECHANICAL, ELECTRICAL, AND ARCHITECTURAL PLANS FOR SIZES AND LOCATIONS OF WALL AND SLAB OPENINGS, DUCTS, PIPING, CURBS, AND EQUIPMENT PADS. IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS, OR NOTES ON THE DRAWINGS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION.
2. EXISTING DIMENSIONS AND CONDITIONS ARE FOR REFERENCE ONLY AND HAVE BEEN DETERMINED FROM EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION OR FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF DEVIATIONS OR CHANGES ARE REQUIRED TO THE CONTRACT DOCUMENTS OR APPROVED SHOP DRAWINGS DUE TO INTERFERENCES, FABRICATION ERRORS, OR OTHER CAUSES.
4. THE STRUCTURE IS SELF-SUPPORTING AND STABLE AFTER IT IS COMPLETELY CONSTRUCTED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION PROCEDURES AND SEQUENCING DURING CONSTRUCTION AND ERECTION TO PROVIDE AND ENSURE LOCAL AND OVERALL STABILITY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION AND ERECTION. THE CONTRACTOR SHALL RETAIN A LICENSED STRUCTURAL ENGINEER TO DESIGN TEMPORARY BRACING/SHORING AND DETERMINE WHERE THE TEMPORARY BRACING/SHORING IS NEEDED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION PROCEDURES, SEQUENCING AND FOR COMPLYING WITH ALL APPLICABLE SAFETY REGULATIONS DURING THE WORK.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL WORK SHALL CONFORM TO IBC 2009 REFERENCED EDITIONS OF AISC "SPECIFICATION FOR THE DESIGN FABRICATIONS, AND ERECTION OF STRUCTURAL STEEL" AND THE "CODE OF STANDARD PRACTICE"
2. STRUCTURAL STEEL MEMBERS SHALL BE IN CONFORMANCE WITH THE FOLLOWING:

WIDE FLANGE SHAPES AND TEES	ASTM A992
ANGLES, PLATES, CHANNELS	ASTM A36, Fy=36 KSI (U.N.O.)
SQUARE/RECTANGULAR HSS	ASTM A500, GRADE B, Fy=46 KSI
ROUND HSS	ASTM A500, GRADE B, Fy=42 KSI
STEEL PIPE	ASTM A53, TYPE E OR S, GRADE B, Fy=35 KSI

3. FIELD CONNECTIONS SHALL UTILIZE MINIMUM 3/4" DIAMETER A325 HIGH STRENGTH BOLTS, U.N.O.
4. CONTRACTOR IS RESPONSIBLE FOR DESIGN OF CONNECTIONS NOT ALREADY DETAILED ON STRUCTURAL DRAWINGS.
5. WELDING SHALL CONFORM TO AWS D1.1. USE LOW-HYDROGEN SMAW ELECTRODES WITH MINIMUM TENSILE STRENGTH OF 70 KSI.
6. PROVIDE LEVELING PLATES OR SHIMS UNDER ALL COLUMN BASE PLATES AND BEARING PLATES, U.N.O.
7. ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL GALVANIZED. REPAIR ALL WELDS, SCRATCHES OR OTHER DEFECTS IN THE GALVANIZING WITH A ZINC RICH PAINT.
8. NON-SHRINK GROUT SHALL BE A CEMENT BASED, NON-METALLIC GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI AT 28 DAYS.

CASCO BAY ENGINEERING
424 Fore Street
Portland, ME 04101
Phone 207.842.2800
Fax 207.842.2828
www.cascobayengineering.com

CLIENT:
WHOLLY COW, LLC

100 COMMERCIAL STREET
PORTLAND, MAINE 04101

STATE OF MAINE
PETER D. RAND
No. 9714
LICENSED
PROFESSIONAL ENGINEER
7-28-15

75 MARKET STREET
PORTLAND MAINE

COOLING TOWER SUPPORT FRAMING

ISSUED

No.	DESCRIPTION	DR. BY	CKD. BY	DATE
A	CLIENT REVIEW	PR		4-28-15
0	ISSUED FOR CONSTRUCTION	PR		5-5-15
1	REVISED FRAMING FOR RECOLD TOWER	PR		7-28-15

SHEET TITLE:

FOUNDATION PLAN

DESIGNED:	PR
DRAWN:	PR
DATE:	04-27-15
PROJECT NUMBER:	15-042

S1.0