

GENERAL NOTES

- THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO SERVE AS PROJECT SPECIFICATIONS. INCONSISTENCIES BETWEEN THESE DRAWINGS AND THE PERMIT SHALL BE RESOLVED BY THE ENGINEER. THE ENGINEER SHALL BE RESPONSIBLE FOR PROCEEDING WITH THE PROJECT PRIOR TO THE AFFECTED PORTION OF THE WORK.
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THESE DRAWINGS. CHANGES, INSERTS, REVISIONS, SLEEVES, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
- ALL DIMENSIONS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE S- DRAWINGS IS COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE EXISTING AND PROPOSED CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THESE DRAWINGS.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWING SHALL BE CONSIDERED TO BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THESE DRAWINGS.
- THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK, INCLUDING DESCRIPTION OF SHOPPING, AND PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO, DEMOLITION OF EXISTING STRUCTURE, OR FABRICATION OR ERECTION OF NEW STRUCTURAL ELEMENTS. SHOP DRAWINGS WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE ENGINEER WILL BE RETURNED FOR SHOP DRAWINGS AND SUBMITTALS REQUIRED, RETENDE THE PROJECT SPECIFICATION.
- ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
- IN ACCORDANCE WITH THE MAINE UNIFORM BUILDING AND ENERGY CODE/INTERNATIONAL BUILDING CODE (2009 EDITION) SECTION 1704.1, A STATEMENT OF SPECIAL INSPECTIONS IS REQUIRED. THIS STATEMENT SHALL INCLUDE A COMPLETE LIST OF MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS, THE INSPECTIONS TO BE PERFORMED AND A LIST OF THE PERSONS AUTHORIZED TO CONDUCT SUCH INSPECTIONS.

DESIGN LOADS

- BUILDING CODE:**
MAINE UNIFORM BUILDING AND ENERGY CODE
INTERNATIONAL BUILDING CODE, 2009 EDITION
INTERNATIONAL EXISTING BUILDING CODE, 2009 EDITION
ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
- DESIGN FLOOR LIVE LOADS:**
WAREHOUSE: 250 PSF
100 PSF
- DESIGN ROOF SNOW LOAD:** N/A
- DESIGN WIND LOAD:** N/A
BASIC WIND SPEED: 100 MPH
WIND LOAD IMPORTANCE FACTOR (I_w): 1.0
WIND EXPOSURE: B
INTERNAL PRESSURE COEFFICIENT: ±0.18
COMPONENTS & CLADDING PER ASCE 7-05
- DESIGN SEISMIC LOADS:** N/A

FOUNDATION NOTES (SOIL SUPPORTED)

- FOUNDATIONS HAVE BEEN DESIGNED TO CONFORM WITH REQUIREMENTS AND LIMITATIONS OF EXISTING FOUNDATIONS BASED ON FROST PROTECTED SHALLOW SPREAD FOOTINGS BEARING ON A LAYER OF CRUSHED STONE OVER A FILTER FABRIC OVER SUITABLE UNDISTURBED NATIVE SOILS.
- PRESUMPTIVE BEARING CAPACITY 2,000 PSF.
- FILTER FABRIC SHALL BE MIRAFI 140N, LAP SEAMS 2'-0" AND SECURE WITH WIRE "NEEDLES".
- RIGID INSULATION SHALL BE STYROFOAM BRAND HIGLOAD 60 RIGID INSULATION.
- CRUSHED STONE SHALL BE PER MDOT SPEC 703.12 (AGGREGATE FOR CRUSHED STONE SURFACE) COMPACT TO 95% DRY DENSITY PER ASTM D-1557.
- STRUCTURAL FILL SHALL BE PER MDOT SPEC 703.22 "UNDER DRAIN BACKFILL MATERIAL".
- SOILS EXPOSED AT THE BASE OF ALL EXISTING FOUNDATION EXCAVATIONS SHOULD BE PROTECTED FROM FROST DAMAGE. FOUNDATION EXCAVATIONS SHOULD BE PROTECTED FROM FROST DAMAGE. FOUNDATION EXCAVATIONS SHOULD BE PROTECTED FROM FROST DAMAGE. FOUNDATION EXCAVATIONS SHOULD BE PROTECTED FROM FROST DAMAGE.
- EXCAVATIONS FOR BUILDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. BRACED EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MAINE. DO NOT UNDERMINE EXISTING FOUNDATIONS OF ANY ADJACENT STRUCTURES.

CONCRETE NOTES

- CONCRETE WORK SHALL CONFORM TO "ACI MANUAL OF CONCRETE PRACTICE", LATEST EDITION. THIS PUBLICATION IS AVAILABLE THROUGH THE AMERICAN CONCRETE INSTITUTE (248) 848-3900.
- CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AS NOTED BELOW.
CONCRETE MIX DESIGN:
FOOTINGS AND FOUNDATION WALLS:
A. STRENGTH: 3000 PSI @ 28 DAYS
B. AGGREGATE: 3/4"
C. W/C RATIO: 0.54 MAX
D. ENTRAINED AIR: 6% ±1.5%
E. SLUMP: 4" MAX
INTERIOR SLABS ON GRADE AND ELEVATED SLABS:
A. STRENGTH: 3000 PSI @ 28 DAYS
B. AGGREGATE: 3/4", 1 1/2" MAX
C. W/C RATIO: 0.54 MAX
D. ENTRAINED AIR: 6% ±1.5%
E. SLUMP: 4" MAX
F. W/C RATIO: 0.45 MAX
G. W/C RATIO: 0.45 MAX
H. SLUMP: 4" MAX
I. SLUMP: 4" MAX
- ADD AIR ENTRAINING ADMIXTURE AT MANUFACTURER'S PRESSURE RATE TO RESULT IN CONCRETE AT POINT OF PLACEMENT HAVING THE ABOVE NOTED AIR CONTENT.
- ADDITIONAL SLUMP MAY BE ACHIEVED BY ADDITION OF A MID-RANGE OR HIGH RANGE WATER REDUCING ADMIXTURE. MAXIMUM SLUMP AFTER THE ADDITION OF ADMIXTURES SHALL BE 10" FOR MID-RANGE OR HIGH RANGE WATER REDUCING ADMIXTURES RESPECTIVELY.
- CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
- PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH EXTERIOR CONCRETE, OR SLABS.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, LATEST EDITION.
- MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
AS REINFORCES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH, 3.0"
BYPASS SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
#5 BARS, 5/8" DIAMETER WIRE AND SMALLER, 1.5"
#6 THROUGH #11 BARS, 2.0"
C/SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
WALLS, SLABS, JOISTS #11 BARS AND SMALLER, 1.0"
WALLS, GIRDERS, AND COLUMNS, ALL REINFORCEMENT, 1.5"
- REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAPPED BARS AT NECESSARY SPLICES OR HOOKED BARS AT DISCONTINUOUS ENDS. PROVIDE CLASS B TENSION LAP SPLICES A01.
- WELDING OF REINFORCEMENT IS NOT PERMITTED.
- FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING AS SHOWN ON THE CONTRACT DOCUMENTS TYPICAL DETAILS. NO PENETRATIONS SHALL BE MADE THROUGH FOOTINGS WITHOUT WRITTEN PERMISSION FROM ENGINEER.
- CONSTRUCTION JOINTS SHOWN ON DRAWINGS ARE MANDATORY. OMISSIONS, ADDITIONS, OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMITTAL OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE STRUCTURAL ENGINEER. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED, DRAWINGS SHOWING LOCATION SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS. CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED. VERTICAL CONSTRUCTION JOINTS AND STOPS IN CONCRETE BEAMS/ GRADE BEAMS SHALL BE MADE AT MIDSPAN OR AT POINTS OF MINIMUM SHEAR, UNLESS NOTED OTHERWISE.
- SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR STRUCTURE DEFLECTION, SURFACE FLUCTUATIONS, AND TO OBTAIN THE SPECIFIED SLAB ELEVATION AT THE FLATNESS AND LEVELNESS INDICATED. FLATNESS/LEVELNESS FT35/FL25.
- INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO CONCRETE PLACEMENT. REINFORCEMENT SHALL BE PROTECTED FROM CORROSION BY COVER OR INSTALLATION OF REINFORCEMENT.
- ALL ITEMS TO BE EMBEDDED INTO CONCRETE SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE. PROVIDE ADDITIONAL REINFORCEMENT AND/OR TEMPLATES AS REQUIRED TO ENSURE THE CORRECT POSITIONS OF EMBEDMENTS. DETAIL SETTING OF EMBEDMENTS AND REINFORCEMENT. PROVIDE ADDITIONAL REINFORCEMENT AND/OR TEMPLATES AS REQUIRED TO ENSURE THE CORRECT POSITIONS OF EMBEDMENTS. DETAIL SETTING OF EMBEDMENTS AND REINFORCEMENT. PROVIDE ADDITIONAL REINFORCEMENT AND/OR TEMPLATES AS REQUIRED TO ENSURE THE CORRECT POSITIONS OF EMBEDMENTS. DETAIL SETTING OF EMBEDMENTS AND REINFORCEMENT.

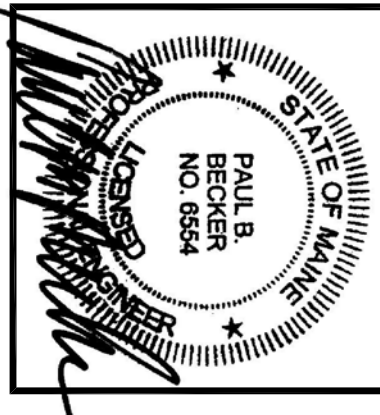
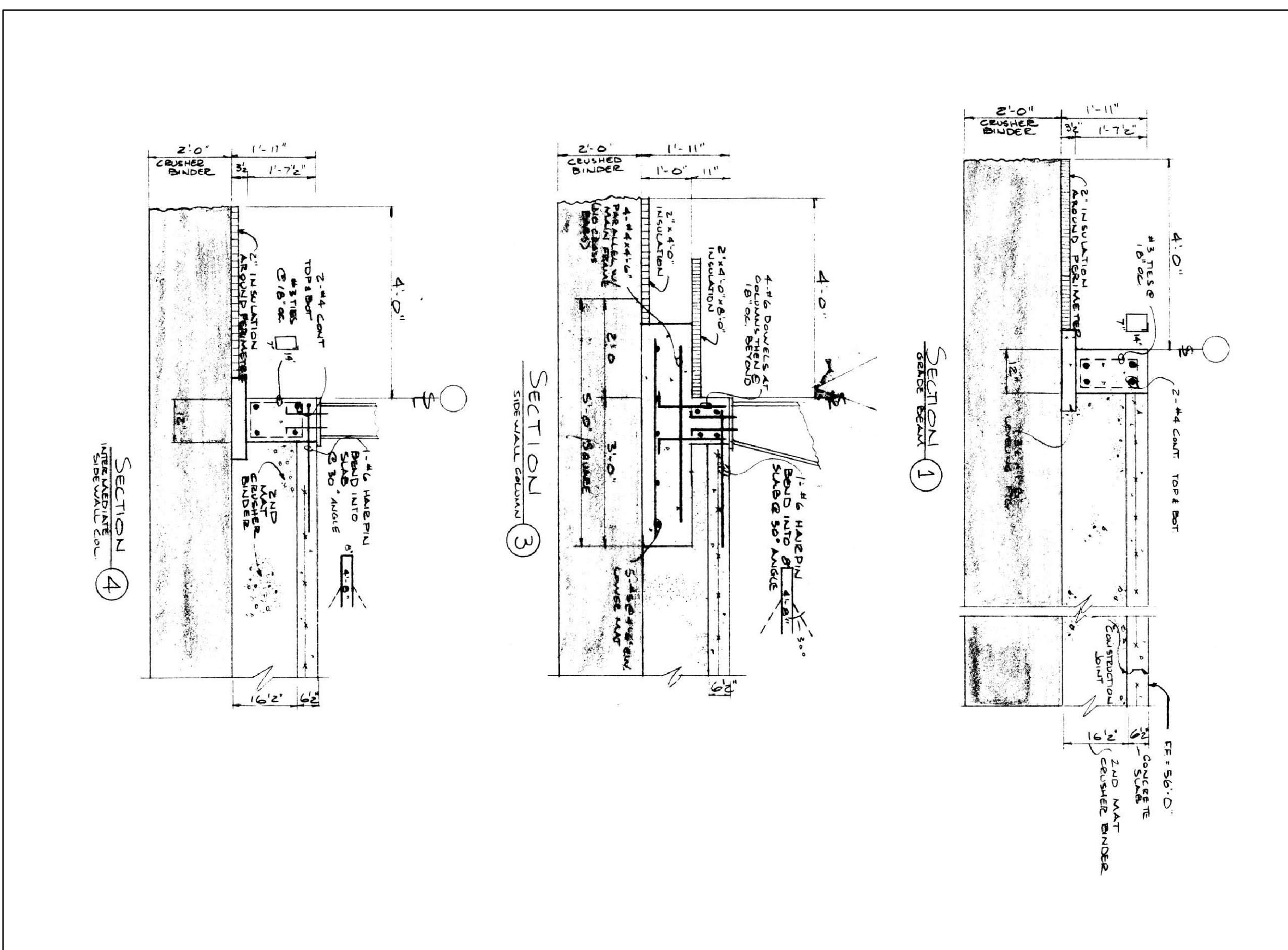
STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC SPECIFICATION FOR THE DESIGN FABRICATIONS, AND ERECTION OF STRUCTURAL STEEL (LATEST EDITION, AND THE CODE OF STANDARD PRACTICE, LATEST EDITION).
- STRUCTURAL STEEL: STEEL PLATES, SHAPES, AND BARS, CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE (U.N.O.). STRUCTURAL STEEL SHAPES DESIGNATED ON THE DRAWINGS FOR WIDE-FLANGE SECTIONS, ASTM A992 (ASTM A572 GRADE 50 WITH SPECIAL REQUIREMENTS PER AISC TECHNICAL BULLETIN #3 DATED MARCH, 1997).
- STRUCTURAL TUBING: CONFORM TO ASTM A500 GRADE B46 KSI.
- FIELD CONNECTIONS SHALL BE BOLTED USING ASTM A325N HIGH STRENGTH BOLTS (U.N.O.).
- WHERE WELDING IS INDICATED, ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION. WELDING SHALL BE DONE BY A WELDER QUALIFIED TO WELD TO PRODUCE OPTIMUM WELD (LOW HYDROGEN).
- PROVIDE ALL MISCELLANEOUS ANGLES, PLATES, ANCHOR BOLTS, ETC. FOR SUPPORT OF BLOCKING PARAPETS, FINISHES, ETC. COORDINATE WITH MISCELLANEOUS METAL FABRICATOR TO ENSURE COMPLETE COVERAGE OF ALL ITEMS.

TESTING

- CONCRETE: AIR, TEMP, SLUMP AND STRENGTH AT EACH PLACEMENT.
- FIELD WELDS, FIELD BOLTED CONNECTIONS.
- COMPACTION

FOR INFORMATION ONLY - SECTION FROM EXISTING DRAWING



Rev No	Date	Issued For	Appr
	11-7-12	ISSUED FOR PERMIT / BIDDING	
	12-3-12	ISSUED FOR REVISED DOOR SIZES	

765 WARREN AVENUE
LOADING DOCKS
PORTLAND, MAINE
GENERAL NOTES & EXISTING SECTIONS

Designated	Scale
PBB	AS NOTED
Drawn	Date
RUB	11/7/12
Checked	Becker Job Number
PBB	2909

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND SHALL REMAIN THE PROPERTY OF BECKER STRUCTURAL ENGINEERS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF BECKER STRUCTURAL ENGINEERS.