

GENERAL STRUCTURAL NOTES
 15-0058
 Bayside Bowl Foundation
 58 Alder Street. Portland, ME.

DESIGN LIVE LOADS: 2009 IBC, MUEBC
 Snow 60 psf (Pg)
 Wind 100 mph, exp B, 3 second gust
 Floor 40 psf
 Deck 60 psf

FOUNDATION / DRIVEN PILES:

- See geotechnical report # 151.06004 by Ransom Consulting Inc.. Soils engineer shall verify soil conditions and types during excavation and prior to concrete placement. --Piles---
- Steel piling shall be 8" dia. concrete-filled steel pipe unless noted otherwise. Piling shall be driven in accordance with the requirements outlined in the soils report and the Architect's specification. Minimum capacity per pile shall be as noted on the drawings.

CONCRETE AND REINFORCEMENT:

- Concrete shall conform to applicable provisions of ACI-301 and 318.
- Minimum 28 day compressive strength (F_c) as follows:
 - Footings and Walls: 3,000 w/ 4-6% air entrainment.
 - Interior Slabs: 4,000 psi w/ fibermesh
- Cement Type: I/II
- Deformed reinforcement: ASTM A615 grade 60, except bars specified to be field_bent, stirrups, and ties which shall be grade 40.
- Fibermesh: 100% virgin polypropylene, fibrillated fibers as manufactured by Fibermesh Co. per ASTM C-1116 type 111 4.1.3 and ASTM C-1116 performance level one, 1.5 lb. per cubic yard.
- Welded Wire Fabric (WWF): ASTM A185. See also plan.
- Typical minimum foundation reinforcing: 2 #5 top and bottom, (except as noted) continuous at corners and steps.
- Reinforcement shall be fabricated and placed per ACI Manual of Standard Practice (ACI 315). At splices, lap bars 50 diameters unless noted otherwise.
- Minimum 2 #5 around all four sides of all openings, extend min. 2'-0" beyond openings.
- Concrete cover over reinforcing: 1 1/2" for concrete placed against forms; 3" for concrete placed against earth. See also drawings.
- In continuous members, splice top bars at mid span and bottom bars over supports.
- Keep reinforcement clean and free of dirt, oil, and scale. Oil forms prior to placing reinforcement.

STRUCTURAL STEEL:

- Angles, misc.: ASTM A36
- Anchor Bolts: A1554 Grade 55 U.N.O.
- Expansion Anchors shall be NER approved, installed in accordance with manufacturers specifications.
- In concrete: Wedge Type
In solid masonry: Sleeve Type
- Non-shrink grout beneath column base and beam bearing plates shall be non-metallic with minimum compressive strength 5000psi.
- All structural steel shall be fabricated and erected per the current edition of AISC Steel Construction Manual.
- Welding by qualified welders. E70XX electrodes.
- Except as noted, framed beam connections shall be detailed to develop 0.6 x Allowable Uniform Load values tabulated in the 9th Edition AISC Manual, Pp. 2-27 and following.
- All beams shall have fitted web stiffeners welded to each side of webs above and below columns. (1/4" plate or as noted)
- Attach wood nailer plates to beams with 1/2" diameter machine or carriage bolts at maximum 32" o.c., or 3/8" diameter bolts at 32" with glued contact face, or 5/32" diameter powder actuated drive pins at 24" o.c., U.O.N.

STRUCTURAL ERECTION AND BRACING REQUIREMENTS

- The structural drawings illustrate the completed structure with all elements in their final positions, properly supported and braced. The contractor, in the proper sequence, shall provide proper shoring and bracing as may be required to achieve the final completed structure.
- These plans have been engineered for construction at one specific building site. Builder assumes ALL responsibility for use of these plans at Any Other building site. Plans shall not be used for construction at any other building site without specific review by the engineer.
- Observations of foundation reinforcing or framing required by the owner, lender, insurer, building department or any other party will be accomplished by the engineer at the owner's expense. At least 24 hours advance notice is requested.
- All slabs on grade shall be separated from adjacent structural and finish elements to allow free movement of the slab, unless specifically shown and noted otherwise.

LOOSE LINTELS:

- Minimum lintel except as noted, one angle for each 4" of wall thickness to bear 6" each end:
- Openings to 4'-0" L 3-1/2 x 3-1/2 x 1/4
- 4'-0 to 5'-4" L 5 x 3-1/2 x 1/4
- 5'-5 to 6'-6" L 6 x 3-1/2 x 5/16

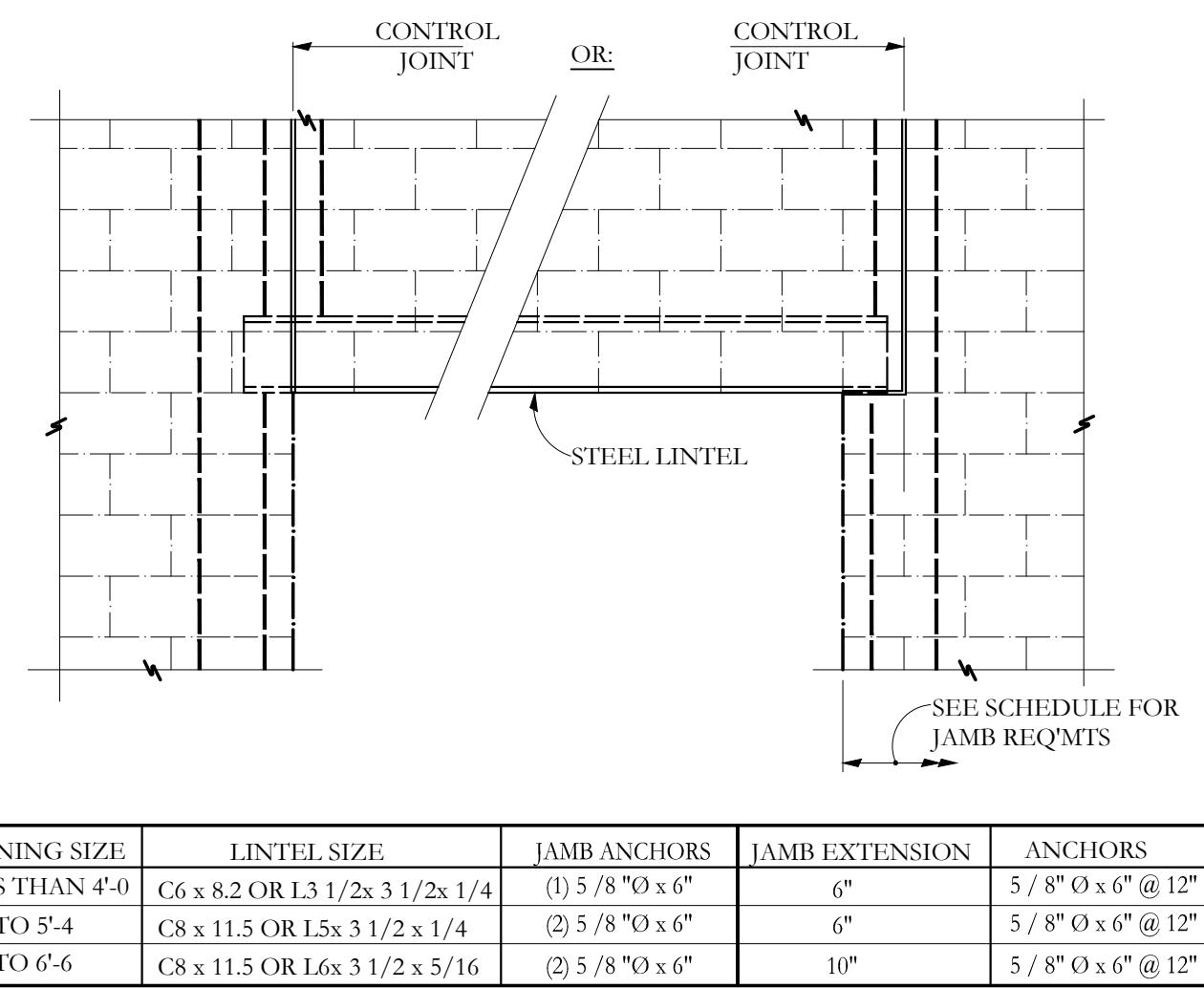
STRUCTURAL ERECTION AND BRACING REQUIREMENTS

- The structural drawings illustrate the completed structure with all elements in their final positions, properly supported and braced. The contractor, in the proper sequence, shall provide proper shoring and bracing as may be required to achieve the final completed structure.
- These plans have been engineered for construction at one specific building site. Builder assumes ALL responsibility for use of these plans at Any Other building site. Plans shall not be used for construction at any other building site without specific review by the engineer.
- Observations of foundation reinforcing or framing required by the owner, lender, insurer, building department or any other party will be accomplished by the engineer at the owner's expense. At least 24 hours advance notice is requested.
- All slabs on grade shall be separated from adjacent structural and finish elements to allow free movement of the slab, unless specifically shown and noted otherwise.

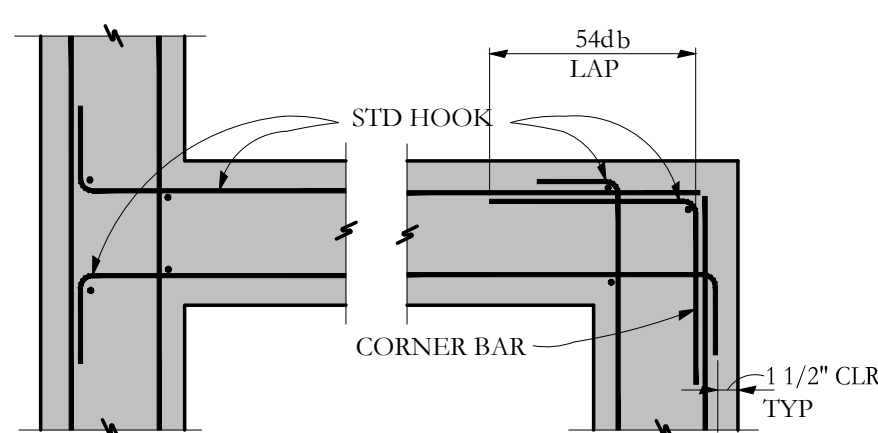
SHOP DRAWINGS

- Fabricator and / or supplier of rebar, structural steel, shall submit shop and erection drawings for architect and engineer review. Submit one reproducible and two prints for each drawing. Allow five working days for review.

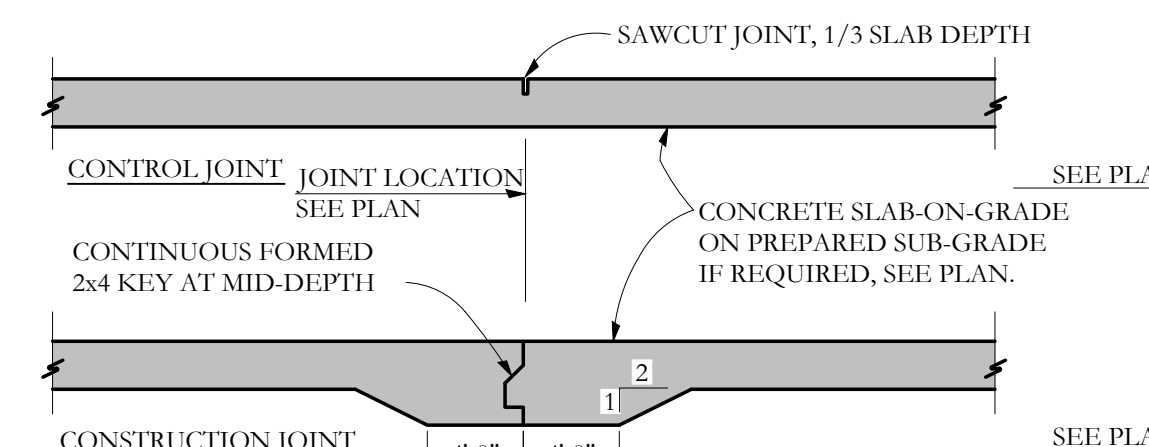
NOTE: THIS FOUNDATION DESIGN IS INTENDED TO BE USED IN CONJUNCTION WITH PRE-ENGINEERED METAL BUILDING DRAWINGS BY CANAM BUILDINGS. COORDINATE ALL WORK PRIOR TO THE START OF SHOP DRAWINGS AND/OR CONSTRUCTION. SPECIFICALLY REFERENCE CANAM FOR ANCHOR BOLT LOCATIONS



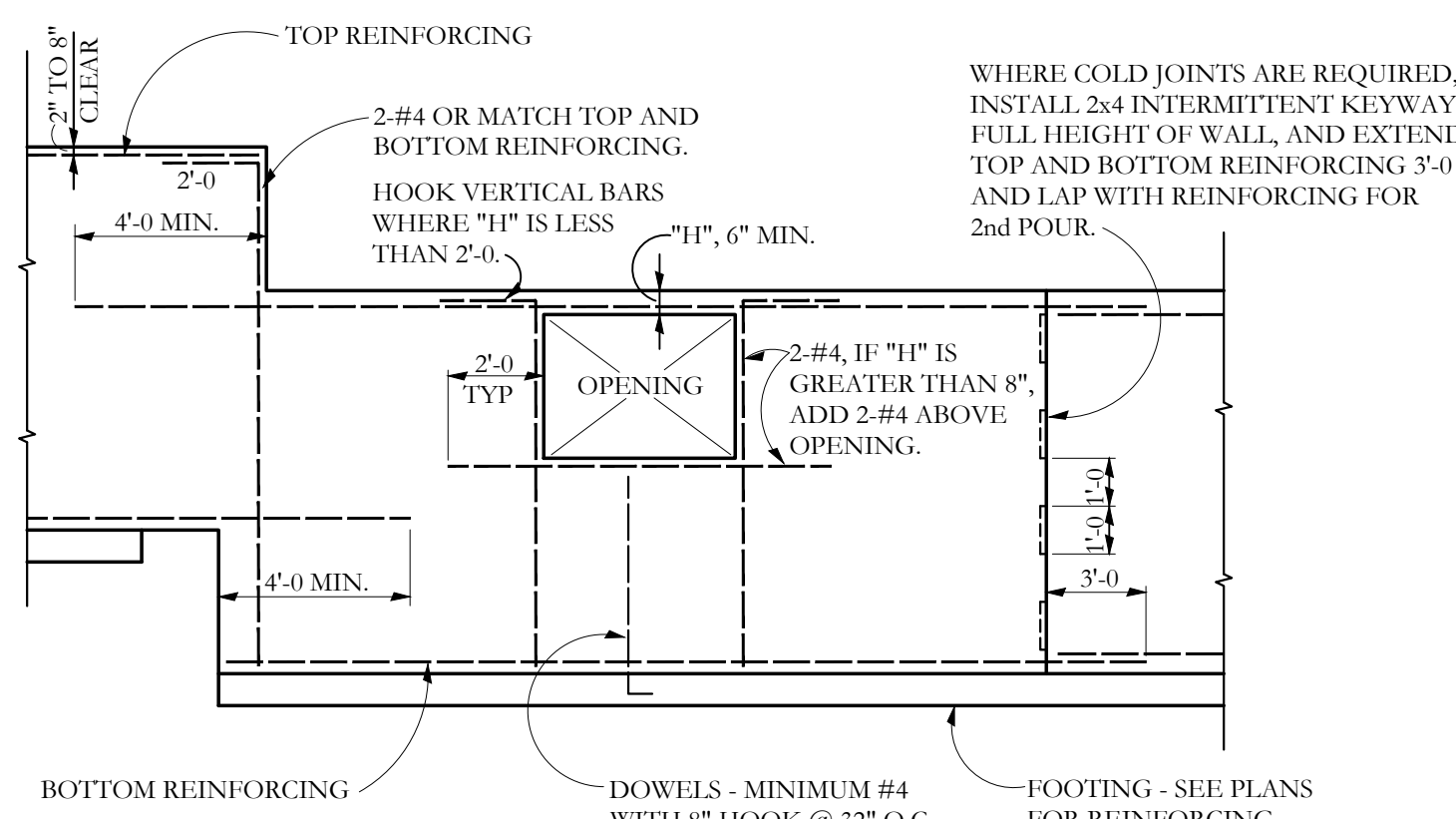
TYPICAL LOOSE LINTEL INSTALLATION
NO SCALE



TYPICAL CONCRETE REINFORCEMENT @ INTERSECTIONS PLAN



TYPICAL JOINTS AT INTERIOR SLAB-ON-GRADE



TYPICAL REINFORCING AT STEPS AND OPENINGS
NO SCALE

ABBREVIATIONS KEY

AB	Anchor Rod (Bolt)	EF	Each Face	MACH	Machine	SC	Slip Critical
ADDL	Additional	EJ	Expansion Joint	MASY	Masonry	SCH	Schedule
ADJ	Adjustable	ELEV	Elevation	MATL	Material	SDST	Self Drilling Self Tapping
AFF	Above Finished Floor	ELEC	Electric (Electrical)	MAX	Maximum	SECT	Section
ALT	Alternate	ENGR	Engineer	MB	Machine bolt	SF	Square Foot
AMT	Amount	EQ	Equal	MECH	Mechanical	SHT	Sheet
ANCH	Anchor, Anchorage	EQUIP	Equipment	MEZZ	Mezzanine	SHTG	Sheathing
APPROX	Approximate	EQUIV	Equivalent	MFR	Manufacture, -er, -ed	SIM	Similar
ARCH	Architect, -ural	ES	Each Side	MIN	Minimum	SLH	Short Leg Horizontal
ATR	All Thread Rod	EST	Estimate	ML	Microcollam	SLV	Short Leg Vertical
AVG	Average	E-W	East to West	(Trus-joist brand LVL)		SCG	Slab on Grade
BC	Bottom of Concrete	EXC	Excavate	MO	Masonry Opening	SP	Spaces
BL	Brick Ledge	EXP	Expansion	MTL	Metal	SPEC	Specifications
BLK	Block	EXT	Exterior	NF	Near Face	SQ	Square
BLKG	Blocking	FND	Foundation	NIC	Not In Contract	ST	Snug Tight
BM	Beam	FP	Far Face, Finished Floor	NS	Near Side	STD	Standard
BOT	Bottom	F-F	Face to Face	N-S	North to South	STHF	Stiffener
BRG	Bearing	FIG	Figure	NTS	Not to Scale	STL	Steel
BW	Bottom of Wall	FL	Flush	OCJ	OSHA Column Joist	STRUCT	Structure, -al
CB	Counterbore	FLG	Flange	OD	Outside Diameter	SUPT	Support
CF	Cubic Foot	FLR	Floor	OF	Outside Face	SY	Square Yard
CG	Center of Gravity	FO	Face of	OH	Opposite Hand	SYM	Symmetrical
CIP	Cast in Place	FP	Full Penetration	OPNG	Opening	T&B	Top and Bottom
CJ	Construction Joint (Control Joint)	FS	Far Side	OPP	Opposite	T&G	Tongue and Groove
CLG	Ceiling	FTG	Footing	OSB	Oriented Strand Board	TB	Top of Beam
CLR	Clear	GA	Gage (Gauge)	PAF	Powder Actuated Fastn	TC	Top of Concrete
CM	Construction Manager (Management)	GALV	Galvanized	PC	Precast	TD	Top of Deck
CMU	Concrete Masonry Unit	GC	General Contractor	PCF	Pounds Per Cubic Foot	THD	Thread
COL	Column	GEN	General	PEN	Penetration	THK	Thick, -ness
COM	Common	GL	Glue laminated (Gulam)	PERP	Perpendicular	TJ	Top of Joist
COMB	Combination	GND	Ground	PL	Property Line	TL	Total Load
CONC	Concrete	GR	Grade	PLF	Pounds per Linear Foot	TPG	Topping
CONN	Connection	GT	Girder Truss	PNL	Panel	TRANS	Transverse
CONC	Concrete	GYPBD	Gypsum Board	PP	Panel Point	TW	Top of Wall
CONN	Connection	HAS	Headed Anchor Stud	PS	Prestressed	TYP	Typical
CONT	Continue (Continuous)	HORIZ	Horizontal	PSF	Pounds per Square Foot	ULT	Ultimate
COORD	Coordinate, -tion	HT	Height	PSI	Pounds per Square Inch	UNO	Unless Noted Otherwise
CS	Countersink	ID	Inside Diameter	PSL	Parallel Strand Lumber (generic term)	VERT	Vertical
CTR	Center	IF	Inside Face	PT (1)	Post Tensioned	VH	Verify in Field
CY	Cubic Yard	INT	Interior (Intermediate)	PT (2)	Pressure Treated	WA	Wedge Anchor
DAB	Deformed Anchor Bar	JB	Joist Bearing	PTN	Partition	WP	Work Point
DET	Detail	JST	Joist	PWD	Plywood	WT	Weight
DEV	Develop	JT	Joint	REQ	Required	WWF	Welded Wire Fabric
DIAG	Diagonal	K	Kip (1,000 lbs.)	REQMT	Requirement	XS	Extra Strong
DIM	Dimension	LD	Load	RET	Retaining	XSECT	Cross-section
DL	Dead Load	LL	Live Load	RE	Reference (refer to)	XXS	Double Extra Strong
DN	Down	LLH	Long Leg Horizontal	RECT	Rectangle	(E)	Existing
DP	Drilled Pier	LLV	Long Leg Vertical	REIN	Reinforce, -ed, -ing	(N)	New
DT	Double Tee	LOC	Location	REQ	Required	(R)	Remove
DWG	Drawing	LSL	Laminated Strand Lumber (generic term)	REQUIREMENT			
DWL	Dowel	LUMBER	Lumber (generic term)	RET	Retaining		
EA	Each	LT	Light	RM	Room		
ECC	Eccentric	LVL	Laminated Veneer Lumber (generic term)	RMO	Rough Masonry Opening		
E-E	End to End			RO	Rough Opening		

Structural Drawing Index

S1.0	General Notes, Etc.
S1.1	Pile Plan
S1.2	Grade Beam Plan
S1.3	Slab Plan
S2.1	Sections



Structural Integrity
 Consulting Engineers, Inc.
 77 Oak Street
 Portland, ME, 04101
 p. 207-774-4614
 f. 866-793-7835
 www.structuralintegrity.com
 BUILT WITH CONFIDENCE

© 2015 RYAN SENATORE ARCHITECTURE

BAYSIDE BOWL FOUNDATION DESIGN
 58 Alder St Portland, ME 04101

RSA
 RYAN SENATORE ARCHITECTURE
 505 CONGRESS STREET
 PORTLAND, MAINE 04101
 207-650-6414
 rsenatorearchitecture.com

CONSULTANTS:
STRUCTURAL:
Structural Integrity
 77 Oak Street
 Portland, ME 04101
 207-774-4614

REVISIONS:

DATE: 06-10-15

PROJECT No.

DRAWN BY: WMc

CHECKED BY: ACJ

SCALE: AS NOTED

SHEET TITLE:

STRUCTURAL GENERAL NOTES / ETC.

S1.0