GENERAL STRUCTURAL NOTES

15-0243 Bayside Bowl Foundation 58 Alder Street. Portland, ME.

DESIGN LIVE LOADS: 2009 IBC, MUEBC Floor 100 psf

FOUNDATION:

- See geotechnical report # 151285 by Summit Geoengineering Inc.. Soils engineer shall verify soil conditions and types during excavation and prior to concrete placement.
- The report is hereby referenced and except where otherwise specifically noted herein, all recommendations and precautions contained in that report shall be adhered to by the contractor. Maximum design soil pressure: 2,000 psf

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: 11/2" 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:

- ASTM A36 • Angles, misc.:
- A1554 Grade 55 U.N.O. • Anchor Bolts:
- 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

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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.

MASONRY:

- Concrete masonry units (CMU) ASTM C90-N-1. Horizontal deformed reinforcement shall be placed in precut knock-out bond beam blocks.
- Mortar: Type S or N
- Grout: 2500 psi at 28 days. Vibrate to consolidate.
- Reinforcement: Standard Dur-O-Wall at 16" o.c. in CMU walls and rebar as noted on drawings Deformed reinforcement shall be as specified for concrete unless otherwise noted, except that laps shall be min. 48

diameter. If High Lift Grouting is used, cleanout holes shall be provided and bar-positioners shall be located at bottom and at 120 diameter maximum spacing.

• MSJC Level One Inspections are required.

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



| OPENING SIZE | LINTEL SIZE | JAMB ANCHORS | JAMB EXTENSION | ANCHORS |
|----------------|--------------------------------|------------------|----------------|---------------------|
| LESS THAN 4'-0 | C6 x 8.2 OR L3 1/2x 3 1/2x 1/4 | (1) 5 /8 "Ø x 6" | 6" | 5 / 8" Ø x 6" @ 12" |
| 4'-1 TO 5'-4 | C8 x 11.5 OR L5x 3 1/2 x 1/4 | (2) 5 /8 "Ø x 6" | 6" | 5 / 8" Ø x 6" @ 12" |
| 5'-5 TO 6'-6 | C8 x 11.5 OR L6x 3 1/2 x 5/16 | (2) 5 /8 "Ø x 6" | 10" | 5 / 8" Ø x 6" @ 12" |
| | | | | |

TYPICAL LOOSE LINTEL INSTALLATION NO SCALE



TYPICAL CONCRETE REINFORCEMENT (a) INTERSECTIONS PLAN



TYPICAL JOINTS AT INTERIOR SLAB-ON-GRADE



NEW LINTEL INSTALLATION IN EXISTING BRICK

| | Additional | L L | L'ADAMSION TOILL | IMASI | IMasonry | 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 Feet | | |
| AMT | Amount | EQ | Equal | MECH | Mechanical | SHT | Sheet | | |
| ANCH | Anchor, Anchorage | EQUIP | Equipment | MEZZ | Mezzanine | SHTG | Sheathing | © 2015 E | VAN SENATORE |
| APPROX | Approximate | EQUIV | Equivalent | MFR | Manufacture, -er, -ed | SIM | Similar | © 2013 F | RCHITECTURE |
| ARCH | Architect, -ural | ES | Each Side | MIN | Minimum | SLH | Short Leg Horizontal | | |
| ATR | All Thread Rod | EST | Estimate | ML | Microllam | SLV | Short Leg Vertical | | |
| AVG | Average | E-W | East to West | | (Trus-joist brand LVL) | SOG | 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 | FF | Far Face, Finished Floor | NS | Near Side | STD | Standard | | |
| BOT | Bottom | F-F | Face to Face | N-S | North to South | STIFF | Stiffener | | |
| BRG | Bearing | FIG | Figure | NTS | Not to Scale | STL | Steel | | 5 |
| BW | Bottom of Wall | FL | Flush | OCJ | OSHA Column Joist | STRUC | Г Structure, -al | - I - I | |
| СВ | Counterbore | FLG | Flange | OD | Outside Diameter | SUPT | Support | | |
| CF | Cubic Foot | FLR | Floor | OF | Outside Face | SY | Square Yard | | 6 U |
| 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 | FS | Far Side | OPP | Opposite | T&G | Tongue and Groove | | |
| | (Control Joint) | FTG | Footing | OSB | Oriented Strand Board | TB | Top of Beam | | |
| CLG | Ceiling | GA | Gage (Gauge) | PAF | Powder Actuated Fast'n | | Top of Concrete | | |
| CLR | Clear | GALV | Galvanized | PC | Precast | TD | Top of Deck | 1 111 | |
| СМ | Construction Manager | GC | General Contractor | PCF | Pounds Per Cubic Foot | THD | Thread | | t O I |
| CITI | | GEN | General | PEN | Penetration | THK | Thick, -ness | | |
| CMU | Concrete Masonry Unit | GL | Glue laminated (Glulam) | PERP | Perpendicular | | Top of Joist | | l ∠ ĭ |
| COL | Column | GND | Ground | | Property Line Double per Linear Foot | | Topping | | T N |
| COMB | Combination | GK | Girder Truss | | Pounds per Linear Poor | TRANS | Transverse | | С Ö |
| CONC | Concrete | GYP BD | Gypsum Board | pp | Panel Point | TW | Top of Wall | | |
| CONN | Connection | HAS | Headed Anchor Stud | PS | Prestressed | Түр | Typical | | |
| CONT | Continue (Continuous) | HOR17 | Horizontal | PSF | Pounds per Square Foot | ULT | Ultimate | | |
| COORD | Coordinatetion | HT | Height | PSI | Pounds per Square Inch | UNO | Unless Noted Otherwise | | |
| CS | Countersink | ID | Inside Diameter | PSL | Parallel Strand Lumber | VERT | Vertical | | |
| CTR | Center | IF | Inside Face | | (generic term) | VIF | Verify in Field | | |
| CY | Cubic Yard | INT | Interior (Intermediate) | PT (1) | Post Tensioned | WA | Wedge Anchor | | |
| DAB | Deformed Anchor Bar | IB | Joist Bearing | PT (2) | Pressure Treated | WP | Work Point | | |
| DET | Detail | JST | Joist | PTN | Partition | WT | Weight | | |
| DEV | Develop | JТ | Joint | PWD | Plywood | WWF | Welded Wire Fabric | | |
| DIAG | Diagonal | K | Kip (1,000 lbs.) | QTY | Quantity | XS | Extra Strong | | |
| DIM | Dimension | LD | Load | R | Radius | 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 | | | | |
| DP | Drilled Pier | LLV | Long Leg Vertical | REINF | Reinforce, -ed, -ing | (E) | Existing | | |
| DT | Double Tee | LOC | Location | REQ | Required | (N) | New | | |
| DWG | Drawing | LSL | Laminated Strand | REQMT | Requirement | (R) | Remove | | \mathbf{S} |
| DWL | Dowel | | Lumber (generic term) | RET | Retaining | | | | |
| EA | Each | LT | Light | RM | Room | | | | |
| ECC | Eccentric | LVL | Laminated Veneer | RMO | Rough Masonry Opening | | | RYAN | SENATORE |
| | End to End | | Lumber (generic term) | RO | Rough Opening | | | ARCH | ITECTURE |
| E-E | End to End | | | | | | | | |
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| E-E TO SCALE | TOP REINI 2'-0 MIN. 2'-0 HO WI THL BO' HO WI THL BO' HO WI THL I REINFORCING TYPICAL REIN Struc | FORCING 4 OR MATC ITOM REI OK VERTI ERE "H" IS AN 2'-0. 2'-0 TYP 2'-0 TYP (AN 2'-0.) | CH TOP AND NFORCING. CAL BARS SLESS "H", 6" MIN OPENING GA OPENING GA OPENING CAL DOWELS - MINI WITH 8" HOOK | I. #4, IF "H" REATER 7 DD 2-#4 A PENING. PENING. MUM #4 @ 32" O.C AND C AND C 77 Oal Portland, p. 207-7 f. 866-7 | Structura S1.0 General S1.1 Found S1.2 Second S1.3 Roof I S1.4 Stair SI S2.1 Section S2.2 Section WHERE COLD JOI INSTALL 2x4 INTE FULL HEIGHT OF TOP AND BOTTON AND LAP WITH RI 2nd POUR. IS THAN 8", BOVE FOOTING - SH FOR REINFOR DPENINGS | Al Notes, F ation Plan d Level / M Level Plan haft / Elev 1s 1s NTS ARE RMITTEN WALL, AN M REINFORCE EINFORCE | ARON C. | SUS CEN PERTLAN 207 senatored STRUCTU STRUCTU STRUCTU STRUCTU STRUCTU STRUCTU STRUCTU STRUCT DATE: PROJECT DRAWN BY CHECKED SCALE: SHEET TIT STRU GENE | ANTS: IRAL: Integrity reet ME 04101 614 S: 01/29/2016 No. 7: WMc BY: ACJ AS NOTED LE: UCTURAL RAL NOTES 7 ETC. |
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| E-E BOTTOM | TOP REINI 2'-0 MIN. 2'-0 HO WI THL BO' BO' HO WI THL A'-0 MIN. I REINFORCING TYPICAL REIN Struc | FORCING 4 OR MATE ITOM REI OK VERTI ERE "H" IS AN 2'-0. 2'-0 TYP 2'-0 TYP (AN 2'-0.) Consu | CH TOP AND NFORCING. CAL BARS SLESS "H", 6" MIN OPENING 72- GA OPENING 72- GA OPE | I. #4, IF "H" REATER 7 DD 2-#4 A PENING. MUM #4 @ 32" O.C AND C AND C 77 Oal Portland, p. 207-7 f. 866-7 www.structu | Structura S1.0 General S1.1 Found S1.2 Second S1.3 Roof I S1.4 Stair SI S2.1 Section S2.2 Section WHERE COLD JOI INSTALL 2x4 INTE FULL HEIGHT OF TOP AND BOTTON AND LAP WITH RI 2nd POUR. IS IS IHAN 8", BOVE FOR REINFOR DPENINGS CONFIDENCE Consulting Engineers. Inc. | I Drav | ARON C. JONES 0 FOR ARON C. JONES 0 10968 0 10968 | SUS CEN PERTLAN 207 senatored CONSULT/ STRUCTUR T7 Oak St Portland, I 207-774-4 REVISIONS DATE: PROJECT DRAWN BY CHECKED SCALE: SHEET TIT STRU GENE | ANTS: IRAL: Integrity reet ME 04101 614 S: 01/29/2016 No. (: WMc BY: ACJ AS NOTED LE: UCTURAL RAL NOTES ('E'TC. |

ABBREVIATIONS KEY

MACH Machine

SC Slip Critical

AB Anchor Rod (Bolt) EF Each Face