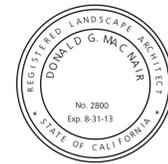


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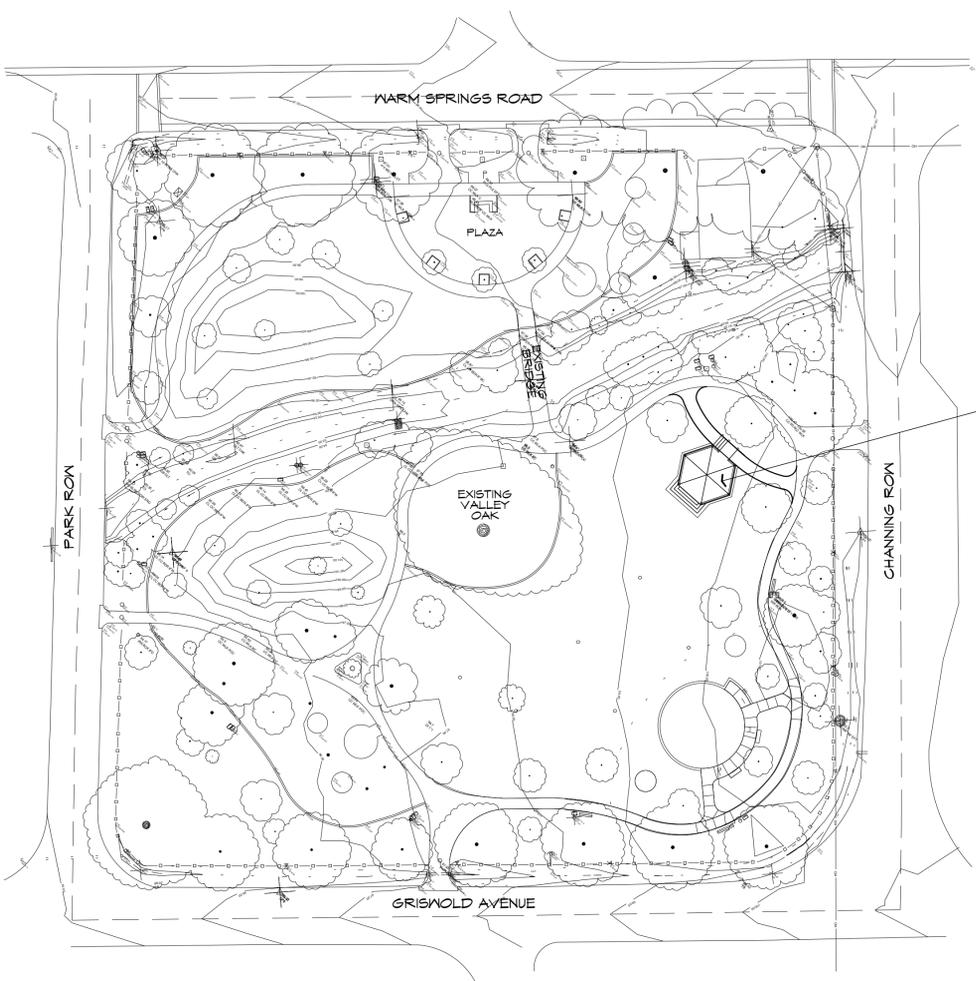


MACNAIR
LANDSCAPE ARCHITECTURE
POST OFFICE BOX 251
KENWOOD, CA 94942
TEL (707) 833-2388
FLA #2800
don@macnairlandscapes.com

SITE PLAN

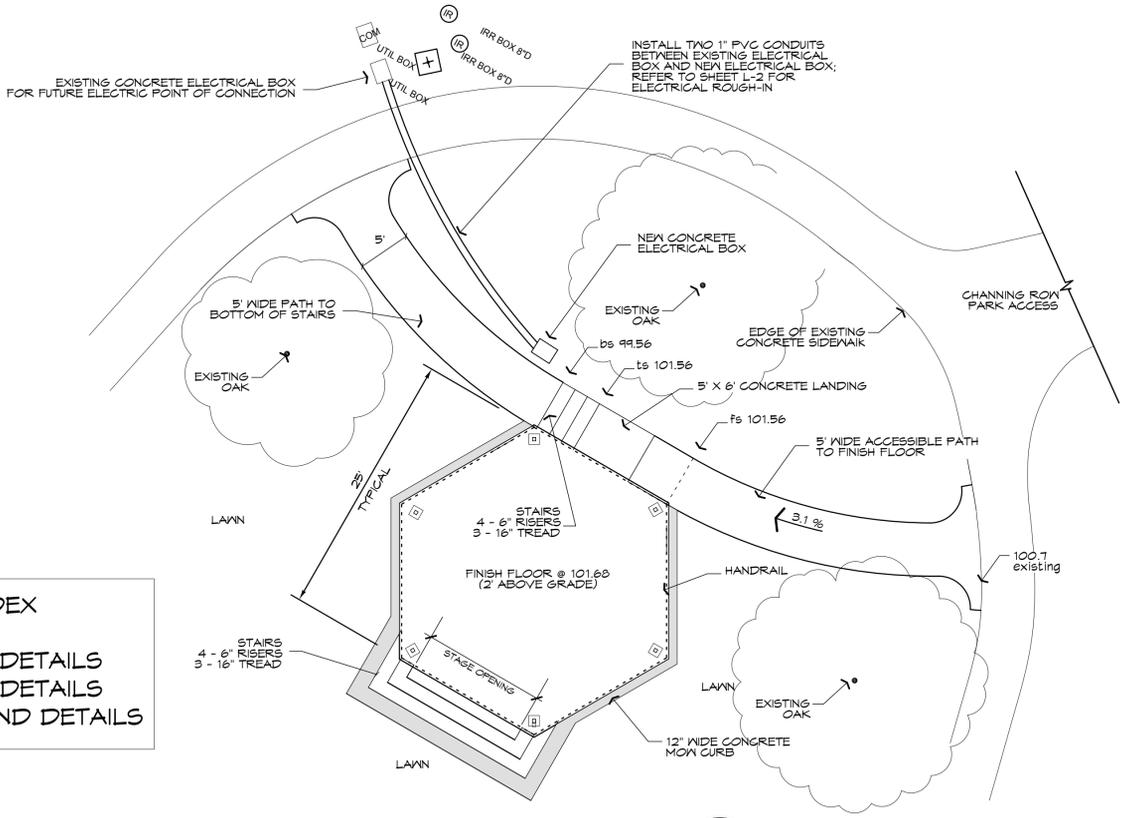
KIRBY FAMILY GAZEBO
KENWOOD PLAZA PARK
KENWOOD, CALIFORNIA

DATE: 2/13/13
JOB: 2012-18
SCALE: AS SHOWN
DRAWN: DM
SHEET **L-1**
SHEET 1 OF 4



**PROPOSED
KIRBY FAMILY
GAZEBO**

SHEET INDEX
L-1 SITE PLAN
L-2 FOUNDATION DETAILS
L-3 STRUCTURAL DETAILS
L-4 SITE WORK AND DETAILS



**KIRBY GAZEBO
PLAN DETAIL**
SCALE: 1/8" = 1'

**KENWOOD PLAZA PARK
KENWOOD, CA**

NTS



STRUCTURAL SPECIFICATIONS

SPECIAL INSPECTION BY OWNERS TESTING AGENCY

Special inspections and testing shall be performed by an approved agency in accordance with California Building Code (CBC) Sections 1703, 1704, 1707 and 1708, and with the Statement of Special Inspections as required by CBC Sections 1704.1.1 and 1708 for building structural elements summarized as follows:

- Structural steel construction per CBC Sections 1704.3, 1707.1, 1708.3 and Table 1704.3 including material identification, shop and field welding.

Concrete Construction

- Concrete shall be hard rock concrete and meet the following requirements:

Location	Min. Strength 28 Days Fc'	Aggregate Size-Inches	Max Water to Cement Ratio	Minimum Cement Sacks, C.Y.
STRUCTURAL				
Foundations & Slabs	3,000 (designated for 2500)	1"x4"	0.53	5.0

- Concrete mix design and testing shall meet the requirements of Section 1903, 1905 and 1704 of the 2010 CBC, and these specifications. Cement to be in accordance with ASTM C150 type II. Aggregate to meet ASTM C33.
- Reinforcing steel shall conform to ASTM A615 Grade 60 or A706 Grade 60. Bars # 3 and smaller may be ASTM A615 Grade 40. Welded reinforcing steel shall be ASTM A706. Steel shall be kept clean and free of rust. Securely tie rebar in place prior to concrete pour.
- Welded wire fabric shall conform with ASTM A185, and shall be lapped 12" minimum.
- Slabs, beams, walls and other concrete shall be kept continuously wet for 48 hours, after placement, and shall be kept damp for 7 days after placement. Slabs shall have cure/sealer applied immediately after finishing if other finishes are not affected. When cure sealer can not be applied, slabs shall be kept continuously wet or covered with curing paper. Cure shall be of a type that will not be detrimental to sealers to be applied later.
- Anchor bolts - A36 or A307 headed bolts. (No "J" or "L" bolts except at wood sill plates). Securely tie anchor bolts in place prior to concrete pour.
- Mechanical couplers for reinforcing steel to be "Bar-Lock" by Dayton Superior (E8R-2495) or equal coupler with ICC Report, UNO.
- Drilled expansion concrete bolts are Simpson Strong Bolt (E8R-1771), Simpson Strong Bolt 2 (E8R-3037), or HiHi Kaik Bolt TZ (E8R-1917). Concrete inserts and female loop inserts are by Burke Concrete Company.

STRUCTURAL STEEL

- Steel Grades:
C Shapes, L Shapes & Plates..... ASTM A36 or A572 GR50
Pipes..... ASTM A53 Grade B R30ksi
Square and Rectangular HSS..... ASTM A500 Grade B R46ksi
Machine Bolts (M3)..... ASTM A307 or A36
Anchor Rods..... ASTM F1554 GR36, A36, or A307 UNO
- Workmanship and details shall conform to the AISC specifications and the CBC unless noted otherwise.
- Bolt holes shall be 1/8" larger in diameter than the bolt. Anchor bolt holes shall be 1/2" larger in diameter than the anchor bolt.
- Welding electrodes shall meet AWS requirements and electrodes shall be E70XX for shielded metal arc, F70XX-E70XX for submerged arc (shop welds only), E70T8-X for gas metal arc and E7XT-XX for flux core (unless noted otherwise).
- All structural welds shall be inspected and certified by a qualified testing agency. Certification shall be submitted to the Architect and the Building Department. (no special inspection required for welding of fireplace steel members).
- Temporary shoring and bracing shall be used and shall be adequate for all loads to which it may be subjected. Leave temporary bracing and shoring in place as long as may be required for safety, AND until final framing construction is completed.
- High Strength Grout: ASTM C1107, non-shrink, non-metallic aggregate type, capable of developing minimum compressive strength of 7,000 psi at 28 days when placed in a fluid state. Provide "MasterFlow 985" manufactured by Master Builders.
- SAD for finishes on steel framing.

WOOD CONSTRUCTION (CARPENTRY)

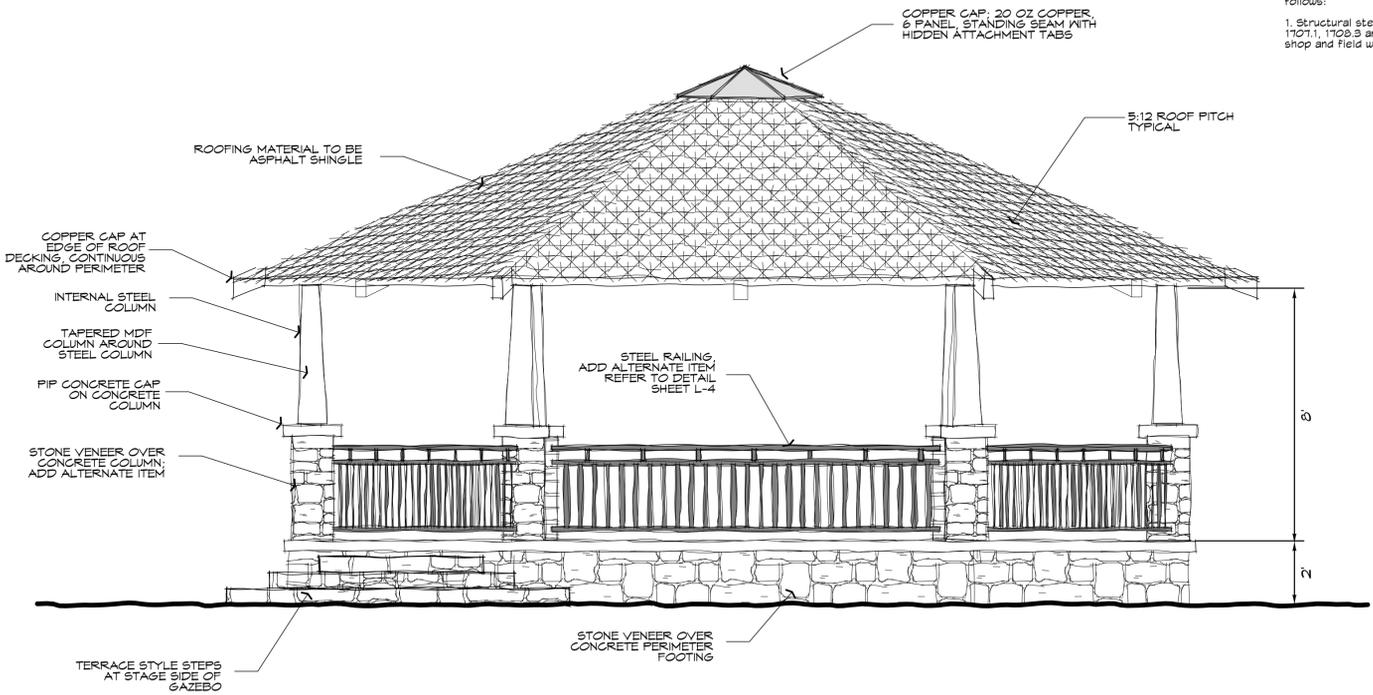
- Each piece of lumber shall bear the stamp of the West Coast Lumber Inspection Bureau (WCLIB) or Western Wood Products Association (WWPA) showing grade mark or approved equal. Beams and posts to be free of heart center (FOHC). Other materials shall be as shown below:

SALIN LUMBER MEMBER	SPECIES AND MINIMUM GRADE UNO	Fb (F8)	Fv (F8)	E (F8)
ATC 6x BEAM'S	ALASKAN YELLOW CEDAR #1	1150	155	1.2x10 ⁶
ATC 4x BEAM'S	ALASKAN YELLOW CEDAR #1	900	225	1.4x10 ⁶
4x BEAM'S	DOUGLAS FIR - #1	1000	180	1.7x10 ⁶
2x 14g DECKING	DOUGLAS FIR - SELECT	1900	180	1.6x10 ⁶
W MATERIAL	DOUGLAS FIR - #2	900	180	1.4x10 ⁶

- It shall be the responsibility of the Contractor to ensure that the maximum moisture content of wood at the time of installation shall be not more than 19%.
- Nails to be of common wire where rafter is specified on the drawings. Iced sinker nails 0.148 x 3 1/4" may be substituted for lead common nails UNO. Pre-drill nail holes where wood tends to split. Nails as specified on plans and including in PTDF material containing ammonia in exterior applications shall be type 304 or 316 stainless steel. Nails used in exterior applications or in interior PTDF shall be hot-dipped galvanized per ASTM A153.
- Metal framing clips, hangers, etc. are by Simpson Strong Tie, 4120 Dublin Blvd., Dublin, CA, Catalog C-202. Nailing shall be in accordance with the manufacturer's instructions with a nail provided for each punched hole UNO. Connectors as specified on plans and those in contact with PTDF material containing ammonia in exterior applications shall be type 304 or 316 stainless steel. All other connections used in exterior applications or interior PTDF shall be 180 (minimum 2.0 oz/sq ft) or 214X (minimum 1.85 oz/sq ft) per ASTM A653. In applications where non-ammonia treated wood is dry when installed and will remain dry in-service a coating thickness of 0.3 oz/sq ft may be used.
- Bolts shall be unfinished machine bolts per ASTM A307. Nuts shall be per ASTM A563 and of standard size unless noted otherwise. Length of bolts shall be such that the bolt projection is not less than 1/2" nor more than 1/2" past end of nut. Bolt holes in wood shall be 1/32" larger than bolt sizes (UNO). Provide standard cut washers under head and nut where bolt heads would bear on wood. Use stainless iron washers where exposed to view or rot. Nuts shall be tightened when placed and retightened before closing in of walls or other construction. Do not crush wood when tightening. Bolts as specified on plans and those in contact with PTDF material containing ammonia in exterior applications shall be type 304 or 316 stainless steel. All other bolts used in exterior applications shall be hot-dipped galvanized per ASTM A153.
- Wood against CHU or concrete shall be Alkaline/Copper/Quaternary (ACQ) Pressure Treated Douglas Fir (PTDF) with 0.25 minimum to 0.40 maximum pcf retention level.

PLYWOOD/ORIENTED STRAND BOARD (OSB) SHEATHINGS

- Structural plywood shall conform to the most current versions of PS-1 or PS-2. All panels shall have an exterior exposure rating and bear the trademark of the American Plywood Association (APA). Plywood sheets shall be spaced along centerline of framing member with nailing spaced not less than 1/2" from edge of sheets. Gun nailing and nails to be approved by the Engineer prior to use. Plywood nails of common wire with full round heads are required.
- OSB with equivalent thickness and span rating may be used in lieu of plywood called out. All OSB shall conform to PS-2.



**KIRBY GAZEBO
CONCEPT**
SCALE: 3/8" = 1' ±