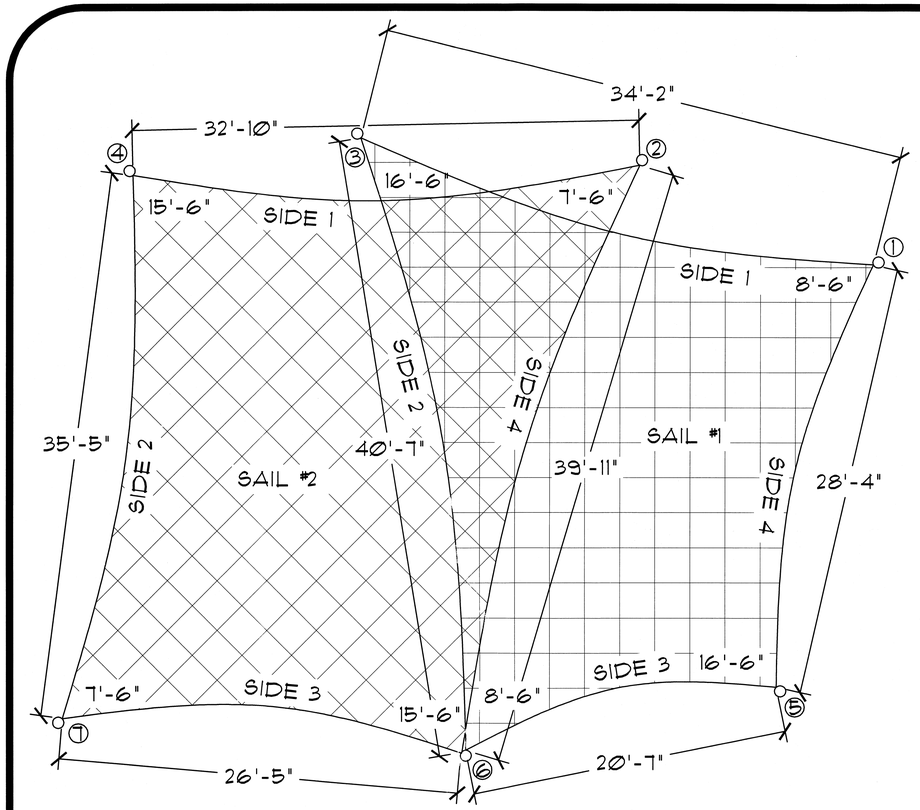


SHADE SAIL LAYOUT PLAN

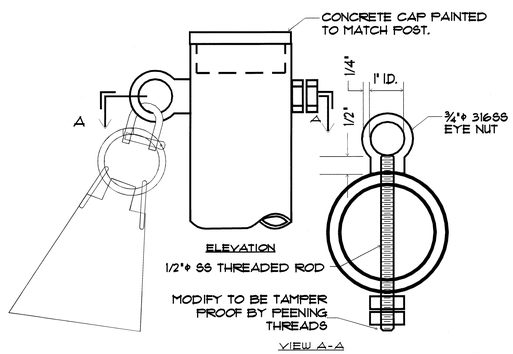
SCALE N.T.S

LOCATION	POST HEIGHT	POST SIZE PAD FOOTING SIZE	CONNECTIONS
POST 1	8'-6"	6" ϕ EXTRA STRONG PIPE WALL t = 0.432" 4'-9" SQUARE x 4'-0" DEEP	1/S1 2/S1 3/S1
POST 2	7'-6"	8" ϕ STANDARD PIPE WALL t = 0.322" 5'-3" SQUARE x 4'-0" DEEP	1/S1 2/S1 3/S1
POST 3	16'-6"	10" ϕ STANDARD PIPE WALL t = 0.365" 6'-6" SQUARE x 4'-0" DEEP	1/S1 2/S1 3/S1
POST 4	15'-6"	10" ϕ STANDARD PIPE WALL t = 0.365" 6'-6" SQUARE x 4'-0" DEEP	1/S1 2/S1 3/S1
POST 5	16'-6"	8" ϕ EXTRA STRONG PIPE WALL t = 0.500" 5'-9" SQUARE x 4'-0" DEEP	1/S1 2/S1 3/S1
POST 6	15'-6"	10" ϕ EXTRA STRONG PIPE WALL t = 0.500" 7'-0" SQUARE x 4'-0" DEEP	1/S1 2/S1 3/S1
POST 7	7'-6"	8" ϕ STANDARD PIPE WALL t = 0.322" 5'-0" SQUARE x 4'-0" DEEP	1/S1 2/S1 3/S1

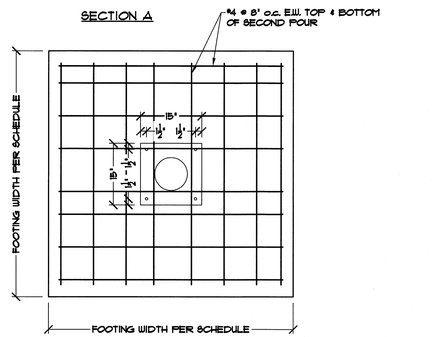
LOCATION OF POSTS TO BE VERIFIED WITH UNDERGROUND UTILITIES PRIOR TO BORING FOR FOOTINGS BY THE PROJECT ARCHITECT AND CONTRACTOR. SAILS TO BE TAKEN DOWN BEFORE ANY SNOW. SAILS AND CABLES AND SUPPORTING ELEMENTS ARE NOT DESIGNED FOR SNOW LOAD.
ALL FLASHING, COUNTER FLASHING AND WATER PROOFING AT PENETRATION OF TUBE COLUMNS INTO EXISTING ROOF STRUCTURE BY THE GENERAL CONTRACTOR

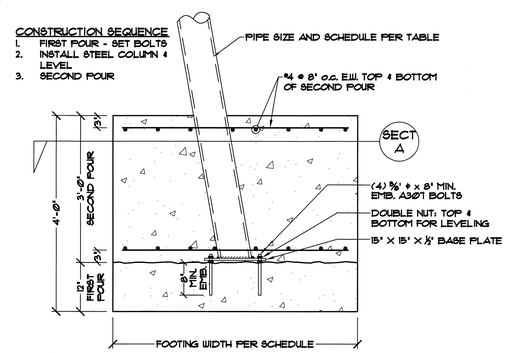
ALL CABLE TO BE 3/16"ϕ TYPE 302/304 SS
7x19 WIRE ROPE MIN. BREAKING STRENGTH = 3700 lbs.

1 CORNER DETAIL
N.T.S.



2 POST & SAIL CONNECTION DETAIL
N.T.S.





3 FOOTING AND POST CONNECTION DETAIL
N.T.S.

SYMBOLS LEGEND

- DETAIL NUMBER / DETAIL SHEET NUMBER
- SAIL * — SHADE SAIL SYMBOL/NUMBER
- 15'-9" — INDICATES CENTER OF CONNECTION POINT HEIGHT ABOVE EXISTING FINISHED SURFACE
- POST / WALL ATTACHMENT SYMBOL/NUMBER

GENERAL NOTES

ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWING SPECIFICATIONS AND THE CALIFORNIA BUILDING CODE, 2007 EDITION.

ALL DETAILS AND NOTES ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OR SHOWN OTHERWISE. CONSTRUCTION NOT SPECIFICALLY SHOWN SHALL BE ACCOMPLISHED PER MINIMUM REQUIREMENTS OF THE UNIFORM BUILDING CODE. THIS OFFICE WILL FURNISH ANY CLARIFICATION DETAIL AT THE REQUEST OF THE CONTRACTOR.

CONTRACTOR SHALL COMPARE ALL DIMENSIONS AND CONDITIONS ON CONTRACT DOCUMENTS AND AT THE SITE. ANY OMISSION OR CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER. IN CASE OF ANY CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY ARCHITECT AND/OR ENGINEER.

CONTRACTOR SHALL COORDINATE WITH ALL TRADES ALL ITEMS THAT ARE TO BE INTEGRATED INTO THE STRUCTURAL SYSTEM. ORDER OF CONSTRUCTION TO BE RESPONSIBILITY OF THE CONTRACTOR. HE SHALL PROVIDE ALL ITEMS NECESSARY FOR HIS CHOSEN PROCEDURE.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM HIS WORK. UNTIL ALL PERMANENT MEMBERS, INCLUDING WALLS, SLABS, FLOORS AND ROOF ARE IN PLACE AND ALL CONNECTIONS ARE COMPLETED. STABILITY OF STRUCTURE AND ALL PARTS THEREOF SHALL BE CONTRACTOR'S RESPONSIBILITY. HE SHALL PROVIDE ALL THE NECESSARY BRACING TO PROVIDE STABILITY.

CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.

CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS TO ASSURE THEY COMPLY WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS WILL NOT SATISFY THIS REQUIREMENT.

CONTRACTOR SHALL NOTIFY THIS OFFICE OF ANY CONDITION HE FINDS WHERE, IN HIS JUDGMENT, IT WOULD BE DESIRABLE TO MODIFY THE REQUIREMENTS TO PRODUCE THE BEST RESULTS.

ALL INSPECTIONS TO BE IN ACCORDANCE WITH C.B.C. SECTION 108.

SPECIAL INSPECTIONS TO BE IN ACCORDANCE WITH C.B.C. SECTION 1701.

OBSERVATION VISITS TO THE SITE BY ENGINEER SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION.

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR WALL AND SLAB OPENINGS, ARCHITECTURAL TREATMENT, AND DIMENSIONS NOT SHOWN. CONSULT MECHANICAL AND ELECTRICAL PLANS FOR SIZES AND LOCATIONS OF ALL OPENINGS FOR DUCTS, PIPES, ETC. NOT SHOWN.

ALL WORK PERFORMED ACCORDING TO THIS DRAWING SHALL BE DONE AS TO COMPLY WITH ALL THE CONDITIONS, RESTRICTIONS, CONSTRUCTION METHODS, AND SAFETY REQUIREMENTS IMPOSED BY CAL-OSHA, AND THE CITY AND/OR COUNTY.

CONCRETE

ALL CEMENT SHALL CONFIRM TO A.S.T.M. C-150, TYPE I OR II. USE TYPE V WHERE SOIL SULFATE IS GREATER THAN 0.2%.

ALL AGGREGATE SHALL CONFORM TO A.S.T.M. C-33.
SHRINKAGE SHALL BE PER A.S.T.M. C-157 WITH THE AVERAGE DRYING SHRINKAGE AT 28 DAYS NOT TO EXCEED 0.05%.

DRYPACK SHALL BE COMPOSED OF ONE PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND.

FOOTINGS.....f'c=2500 psi*

* ALL CONCRETE SHALL REACH MINIMUM COMPREHENSIVE STRENGTH AT 28 DAYS AND SHALL HAVE A MINIMUM CEMENT CONTENT OF 5 SACKS PER CUBIC YARD AND MAX. SLUMP = 5". MAXIMUM SIZE AGGREGATE = 3/4". MIXING AND PLACING OF ALL CONCRETE AND SELECTION OF MATERIAL TO BE IN ACCORDANCE WITH C.B.C.-07 SECTIONS 1904, 1905, AND ACI CODE 304-83. USE NO CALCIUM CHLORIDE.

CONCRETE SHALL BE PLACED IN LAYERS NOT OVER 12 INCHES DEEP.
USE MECHANICAL VIBRATORS TO THOROUGHLY COMPACT ALL CONCRETE.
VIBRATORS SHALL MAINTAIN A SPEED OF NOT LESS THAN 7000 IMPULSES PER MINUTE WHEN SUBMERGED IN THE CONCRETE.
PERFORM INTERNAL VIBRATION BY DIRECT ACTION IN THE CONCRETE AND NOT AGAINST FORMS OR REINFORCEMENT.
VIBRATE EACH POUR UNTIL THE WATER SHOWS INDICATIONS OF RISING, BUT NOT UNTIL THE WATER HAS RISEN.
VIBRATORS SHALL BE APPLIED AT UNIFORMLY SPACED POINTS NOT APART THAN THE VISIBLE EFFECTIVENESS OF THE MACHINE.

STRUCTURAL STEEL

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," A.I.S.C., CURRENT EDITION. STEEL TO CONFORM TO A.S.T.M. A-36± PIPE COLUMNS TO CONFORM TO A.S.T.M. A-53 GRADE B.
2. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS, AT LICENSED SHOP AND APPROVED BY THE BUILDING DEPARTMENT. USE ONLY THE ELECTRIC SHIELDED ARC PROCESS WITH LOW HYDROGEN E70XX ELECTRODES, PER THE LATEST EDITION OF STRUCTURAL WELDING CODE-STEEL, ANSI/AWS D1.1-90.
   CONTINUOUS INSPECTION BY A REGISTERED DEPUTY BUILDING INSPECTOR IS REQUIRED FOR ALL FIELD WELDINGS.
3. PROVIDE STANDARD WASHERS UNDER ALL NUTS.
4. ALL STEEL EXPOSED TO ELEMENTS TO BE PROTECTED BY MEANS OF GALVANIZED OR PRIME AND PAINTED. SEE CONSTRUCTION SPECIFICATIONSBY OTHERS.

SPECIAL INSPECTION

SPECIAL INSPECTION PER C.B.C.-07 IS REQUIRED AS FOLLOWS:

1. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
2. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OR ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL.
3. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THIS CODE.
4. ALL STRUCTURAL WELDING, INCLUDING REINFORCING BARS.

DUTIES OF THE SPECIAL INSPECTOR

IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING CHECKED ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH 2007 CALIFORNIA BUILDING CODE.

1. EPOXY ANCHORS PER APPROVED REPORT.

Rev.	Date

Patrell Engineering Goup, Inc.
751 Sunny Grove Lane
Glendora, CA 91741
Ph: (626) 335-4362
Fax: (626) 963-4812

SHADE SAIL DETAILS

EMERALD BAY
BOY SCOUT CAMP
CATALINA, CA

CA RCE 37018 EXP: 6/30/10

12/08 Date

Scale N.T.S

S1 Sheet