

SECTION 00 91 03

ADDENDUM NO. 3

Summary

This document includes requirements that clarify or supersede portions of the Request for Proposal. This Addendum is a Contract Document.

General

The following changes, additions and deletions shall be made to the following document(s); all other conditions shall remain the same.

A. SPECIFICATIONS

Item No.	Reference	Description
1.	Document 00 01 10	Table of Contents V.4 dated December 4, 2009, attached, supersedes V.3 dated November 19, 2009. V.4 includes updated specification sections.
2.	Section 05 40 00	Cold-formed Metal Framing: SCAFCO Steel Stud Manufacturing Company of Spokane, WA is deemed an acceptable manufacturer. See Substitution Request Response Form and product information attached herewith.
3.	Section 10 11 00	Visual Display Boards: Newline Products, Inc. of Plano, TX is deemed an acceptable manufacturer subject to the conditions described in the Substitution Request Response Form attached herewith. Product information is also attached.
4.	Section 11 52 16	Projector Mounts: Delete 11 52 16 – Ceiling Projector Mounts in its entirety, and insert revised Section 11 52 16 – Projector Mounts.
5.	Section 14 24 23	Hydraulic Passenger Elevators: A. Subparagraph 1.1.B.1. Delete what is written and insert the following: “1. Elevator contractor shall install pinned cylinders for elevator controls key switches furnished by Division 8.” B. Subparagraph 1.11.B. Delete subparagraphs 1.11.B.1, 1.11.B.2, and 1.11.B.3. Insert revised subparagraph 1.11.B.1 as follows: “1. Jack Hole: Elevator Contractor is responsible to be familiar with existing conditions and be responsible for drilling of jack holes. Include all costs for drilling through any soil or ground conditions. Rock hole clause is not allowed.”

B. DRAWINGS

Item No.	Reference	Description
6.	Sheet A10.91	Suspended Acoustical Ceiling Details: Add detail 13 – Projector Wall Mount, as shown on attached revised Drawing A10.91.
7.	Sheet M4.1	Mechanical Equipment Schedules: Modify the Air Handling Unit Schedule, as shown on attached revised Drawing M4.1.
8.	Sheet E1.1	Site Plan Electrical: (Reference Addendum No. 2, Item 59) A. Modify Sheet Keynotes 9 and 10, as shown on attached revised Drawing E1.1. B. Modify Detail 2 to indicate additional information for the generator and automatic transfer switch, as shown on attached revised Drawing E1.1.
9.	Sheet E3.1	First Floor Plan Power: A. Add power for motorized roller shades at clerestory windows at Multi-Purpose Assembly Room 6-102, as shown on attached revised Drawing E3.1. B. Add Sheet Keynote 21, as shown on attached revised Drawing E3.1.
10.	Sheet E6.2	Panel Schedules: Revise Panel Schedule for Panel '6R1', as shown on attached revised Drawing E6.2.

C. CLARIFICATIONS

11. Reference Item #31 in Addendum No. 1 regarding Earthquake and Flood insurance for the project:
Response to this question is further clarified as follows:

Response: The District further clarifies that the Contractor will be relieved of any responsibility for damages from these exposures.

12. Detail 2.7B/S2.7 shows an 8" thick landing on grade with #5 at 12" o.c. e.w. bot. and #4 at 18" o.c. e.w. top. However, detail 2.7B/S2.7 references detail 5.1F/S5.1 which shows a 6" thick landing with #4 at 12" o.c. e.w.; a 12" slab; and an 8" wall not shown on detail 4.2A/S4.2. Nor does 5.1F/S5.1 show the transition from the landing to the stairs above. Please revise detail 5.1F/S5.1 to conform and continue in further detail the design shown in plan 2.7B/S2.7 and section 4.2A/S4.2.

Response: Use landing and reinforcement shown on section A/S4.2, which clearly defines concrete reinforcing. See plan A/S2.6 and section A/S4.2 for locations of the walls below the stairs.

13. Note 85 on sheet A3.12 refers to detail 13 on sheet A10.91 for the wall mounted projector bracket. However sheet A10.91 has no detail 13. Please provide detail 13/A10.91 for the wall mounted projector bracket.

Response: See revised sheet A10.91 for detail 13: projector wall mount (included in this Addendum 3). See also revised specification section 11 52 16 Projector Mounts for projector wall mount information.

14. Is the ceiling plenum rated or may we use a riser rated cable?

Response: Yes, ceiling plenum is rated; plenum rated cable is required.

15. The redirected cables in building 5...Can you provide the quantity and types of cable?

Response: Assume ten (10) cables are required.

16. Are the Backbone Feeds shown on the prints (T5.1) new or do these represent the redirected cables? If new:

- a) Is there a requirement for protection terminals between buildings 8 and 6?
- b) Is rack space available in the building 8 MDF for the fiber terminations.

Response: Cables shown in detail 4 on sheet T5.1 are the new cables from the MDF (Building 8) that support the new TR1.1.

a) No.

b) Yes.

17. Is rack space available in the building 8 MDF for 3rd floor station cables?

Response: Yes.

18. Patch Cables are described in the specs. Is there a quantity, length required? Will we be installing?

Response: A mixture of 5' and 7' patch cords, installed by Owner.

19. Will the district need us to provide cutover or cut coverage?

Response: No.

20. Shall all hours be normal work hours or is there a requirement for OT?

Response: Refer to Specification Section 00 71 00 (General Conditions), Par. 11.G.1 and Section 00 73 00 (Supplementary Conditions), Par. 4. Work that entails shutting down power or tel/data, which would impact the campus' computer network, fire alarm or security system, is to be done outside normal business hours so as to minimize disruption to College operations. All shut-downs must be coordinated with the Owner.

21. On Technology sheets, we are shown the symbol "K" next to many doors. However, we cannot locate this symbol on the symbol sheet. Please clarify what the symbol "K" is.

Response: Refer to Addendum 2 drawings.

22. In Security specifications, there are 3 card reader types specified. However, there are no distinguishing marks on the drawings to show what each card reader type is. Please clarify which type each card is.

Response: Provide Prox + Pin Command Card Reader.

23. Specifications call out card readers for elevator call, however we are unable to locate on the drawings. Please clarify.

Response: Refer to Addendum 2 drawings.

24. Can you please provide a single line drawing showing all security devices.

Response: Refer to security floor plans to determine location of devices and security specification for cable type.

25. Please provide a single line diagram showing the CCTV video system so we can determine what additional equipment such as servers, storage, video equipment, etc is required since the drawings only show camera locations.

Response: Refer to security floor plans. Route (1) CAT6 cable from each camera to the IDF/MDF room.

26. The Technology drawings only show camera locations, but do not clarify what type of camera is at each location. Please provide clarification as to what each camera type is.

Response: Refer to Addendum 2 drawings.

27. Are all cameras IP type cameras?

Response: Yes.

28. Are there power supplies for external and PTZ cameras?

Response: Yes.

29. Are we having to upgrade any existing video or access control software? If so, please provide information on existing system so we know what to upgrade.

Response: No.

30. There are two camera locations that do not call out if they are fixed or PTZ. Please clarify.

Response: Refer to Addendum 2 drawings.

31. We are provided with Lighting relay control specifications and are shown low voltage switch controls on the lighting sheets, however there are no locations shown for lighting control panels. Please provide.

Response: Refer to Addendum 2 drawings.

32. Fixture type K, Flex-Line Track with MR16 Track Heads, is shown on E2.1. The number of track heads or the spacing for track heads is defined. What is the number of track heads or spacing required for track heads? Please clarify.

Response: Space track heads at 18" on center.

33. Technology drawing T4.3 shows cable tray in <E> Corridor 5-301N. A specification section for cable tray was not found in the specifications. Please provide requirements for cable tray type, material type, support spacing, support type, grounding requirements, etc. Please clarify.

Response: Provide 12"x2" wire basket cable tray supported every 48"-60". Provide zone 4 seismic bracing on all trapeze supports. Tray system must be grounded between sections to the TMGB or the TGB.

34. Architectural drawing A6.3, Sheet Note #5, refers to motorized roller shades in the Multi-Purpose Assembly Room #6-102. Electrical drawing E3.1, First Floor Power Plan, does not show power

requirements or locations for motorized roller shades. What are the locations and power requirements for motorized roller shades? Please clarify.

Response: Refer to addendum 2 drawings for power to motorized shades.

35. Specification Section 27 53 13, Central Clock System, calls for Simplex secondary field clocks that require a single gang back box with a 3/4" conduit to accessible ceiling space. After review of the Electrical, Technology and Architectural drawings, clocks could not be located. Please confirm that a central clock system is required. If central clock system is required, please provide locations.

Response: Refer to Addendum 2 for location of clocks.

36. Specification Section 01 10 00, 2.3, Summary of Required Attic Stock, requires that contractors provide spare parts/equipment. Please confirm this is a requirement. Example: Main breakers per specification for extra 5% of each type and would require 1-spare main breaker at each panel or gear. This would be very costly. Please advise.

Response: Contractor shall provide attic stock per Specification Section 01 10 00, 2.3.

37. Specification Section 01 10 00, 1.2, B, 8 "provision of manual transfer switch and power inlet box to allow an external generator to be hooked up and provide power to Building 8, including the MPOE Room, shall be furnished. This is not represented on the Electrical Single Line E5.1. Please clarify.

Response: Single line diagram for this work is shown on sheet E1.1.

38. Reference Specification Section 28 31 00 (Fire Detection and Alarm): Section 2.01, F. (conduit, boxes, enclosures) indicates "all system wiring in conduit". Existing system is not in conduit and conduit is not required by code. Is conduit required for fire alarm system?

Response: Yes, fire alarm wiring is required to be in conduits.

39. Please provide information concerning the accent design that is to be used in the resilient floor covering for areas that are designated under the finish groups key as C and C1, this is for the areas shown as the cafeteria, corridors, lobbies, and hallways. We need this detail information to compute quantities and labor time accurately. For every room called out on the finish schedule to have a floor pattern, please provide an illustration of this pattern on the finish floor plan. Please advise.

Response: See revised floor pattern details 26 and 27/A10.81 in Addendum 2, referenced on revised finish plans on sheets A9.41, A9.42 and A9.43, also in Addendum 2.

40. In reviewing the Video Surveillance System specifications for the Canada College Buildings 5/6 modernization project we noticed that the video system called for is the Amag NVR. We understand that the College recently removed the Amag video system and replaced it with an ExacqVision system. Do we bid Amag or ExacqVision?

Response: Use Amag NVR per the construction documents.

41. Per Item #3 on bid form, we are to provide lump sum cost for the installation of Tele/Data cabling to classrooms 6-111 and 6-112, however we are not provided with quantity of outlet locations and type of chase to outlet (flush, surface, wire mold, etc). a) Please provide quantity of Tele/Data outlets in each class room and type of electrical raceway for said outlets.

Response: The construction documents do not show new or existing outlets or chases to outlets. See sheet T4.1 for identification of work scope, which appears to be redirection of the backbone cables from the telecom enclosure in room 6-112 to the new teledata room 5-102.

42. Sheet T4.1 Keynote #1 calls out to relocate existing backbone cables to new TR5.1. Please clarify size and type of cabling?

Response: Our information shows these to be 25-pair copper and a 6-strand MM Fiber Optic cable. Contractor shall verify in field.

43. What is the distance from sheet T4.3, column line Z, between 14 and 15 to the MDF?

Response: The MDF is located just on the other side of the wall. Assume 15 feet past the wall to the racks.

44. Is there sufficient space on existing relay racks in the MDF for mounting new patch panels and wire managers?

Response: Yes.

45. Is the Cabling Contractor responsible for mounting the Wireless Access Point devices?

Response: Yes.

46. On E1.1, Site Plan Electrical, a new 230A 480V N3R ATS is shown. Please provide a specification for ATS.

Response: Required information for bidding equipment is shown on drawings. Refer to revised sheet E1.1 for Addendum 3.

47. On E1.1, Site Plan Electrical, a "Eaton Generator Quick Connect" terminal box is shown. Please provide specification for Eaton Generator Quick Connect.

Response: Required information for bidding equipment is shown on drawings. Refer to revised sheet E1.1 for Addendum 3.

[Reference Specification Section 14 24 23 "Hydraulic Passenger Elevators" for the next (4) items.]

48. Will the Owner furnished cylinders require jack holes?

Response: No. The "pinned cylinders" are for the elevator controls key switches, and are furnished under Division 8. See Addendum 3 revision to Section 14 24 23 for clarification.

49. What are the physical properties of the Owner furnished cylinders. e.g. what are the requirements of the hole - diameter, depth, etc.?

Response: The Owner is not furnishing any part of the jack hole unit or jack hole casing. See Addendum 3 revision to Section 14 24 23 for clarification

50. 1.11.B.3. seems to anticipate access problem for drill rig; is it your intention for the bidding GC to rely on T&M work for hole drilling for the elevator jack hole unit?

Response: No, there is no allowance for T&M work for hole drilling for the elevator jack hole unit. See Addendum 3 revision to Section 14 24 23 for revised description of the excavation work.

51. All costs incurred for drilling the new holes could be predicted in advance as being "additional cost" as mentioned in 1.11.B.3 because of their locations; one is inside the building and the other is outside the building where access for a drill rig will be less than ideal.

Response: No. The Elevator Contractor is responsible to be familiar with existing conditions and is responsible for all costs associated with drilling of jack holes. Include all costs for drilling through any soil or ground conditions. Rock hole clause is not allowed. See Addendum 3 revision to Section 14 24 23 for clarification of the excavation work.

52. There will be shoring needed for the new elevator / stairs work. Can the shoring be abandoned in place after the work is complete? This will include driving steel piles and pressure treat lagging.

Response: General Contractor will be responsible for providing shoring design and construction acceptable to the DSA. For informational purposes, it is our understanding that on previous projects the DSA has permitted pressure treated lumber to remain in place.

53. Reference Sheets S2.2, P/S5.2, A2.2, 10/A10.21: I see a conflict in material for the New Ramp Rail shown in 10/A10.21. Details 14, 15, 20 show Galvanized Rail. Section 9 refers to 3 and 5 which show Aluminum. Section 1 also shows Aluminum Rail. Is the Guardrail shown in Section 1 and 14 the same rail or is the Aluminum Guardrail in Section 1 independent of the Galvanized Guardrail in Section 14? Please clarify.

Response: Guardrail detail 14 is not the same as guardrail detail 1/A10.21. The ramp shown on detail 10/A10.21 is identified as for the use of the loading dock only. We identified a heavier duty railing for this location (galv steel per detail 20/A10.21) since it appears to be more likely to be exposed to damage/wear from the loading dock equipment.

54. Reference drawings S2.3, S2.6, S2.7 and S4.2. Drawing S2.6 calls for the steps and retaining walls to be removed and new added. It makes no mention of any new Handrail or Guardrail. The same holds true for Sheet S2.7. I am not going to figure on any railing in this area. Please clarify.

Response: See enlarged exterior elevator plan 2/A7.1 for architectural information on these stair and railings. The enlarged plan references stair sections 1 and 7/A10.21 which detail the railings.

END OF ADDENDUM NO. 3

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END OF DOCUMENT

Bid Phase Substitution Request Response Form



Date: November 29, 2009
Total Pages: 1 (Including this transmittal sheet)

S.R. No. 002 **S.R. Date:** Oct. 21, 2009
Project #: 07013
Project Name: Cañada College – Bldg. 5/6 Modernization

To (Requestor): Lynn C. Dellos
Firm/Agency: Scafco Steel Stud Mfg.
Fax: (888) 318-7258

CC:
Client: Alex Acenas, SMCCCD CPD
Client Fax:

Attachments:

Date	Pages	Description
	1	Substitution Request & Response Forms

Request:	Spec. Section(s)	Para-graph	Detail No.
Studs and Tracks	05 40 00	2.2.B	
Vertical Deflection Clips	05 40 00	2.2.D	

Response:

Accepted as substitution.

Response Submitted By: Dan Patterson
Project Architect

If you have any problem receiving this fax, please call 510.445.1000

San Mateo County Community College District

DOCUMENT 00 43 25

SUBSTITUTION REQUEST FORM

To: San Mateo County Community College District

Project: CAÑADA COLLEGE BUILDING 5/6 MODERNIZATION PROJECT

Contractor: BCA

Subcontractor/Supplier: SCAFCO CORPORATION

Drawing Sheet Reference/Detail No: _____

The undersigned Bidder submits for consideration the following equipment instead of the specified item for the above project:

Section	Paragraph	Specified Item
<u>054000.2</u>	<u>2.2.B</u>	<u>STUDS + TRACKS</u>
<u>054000.2</u>	<u>2.2.D</u>	<u>VERTICAL DEFLECTION CLIP</u>

Proposed Substitution: SCAFCO - STEEL STUDS, SLOTTED TRACK + DEFLECTION CLIPS

The undersigned encloses the information required herein. If this Document 00 43 25 is being submitted by a Bidder wishing to use "or equal" item(s) as provided in Document 00 11 19 (Instructions to Bidders), the undersigned Bidder must also enclose the technical information (other than cost) otherwise required for a post-Award of Contract Request for Substitution ("RFS") under Section 01 60 00 (Product Requirements). However, if this Document 00 43 25 is being submitted under provisions of Contract Documents after Award of Contract, the undersigned Contractor must include all information required under Section 01 60 00 (Product Requirements).

The undersigned has (a) attached manufacturer's literature, including complete technical data and laboratory test results, if applicable, (b) attached an explanation of why proposed substitution is a true equivalent to specified item, (c) included complete information on changes to Drawings and Specifications that the proposed substitution will require for its proper installation, and (d) filled in the blanks below:

A. Does the substitution affect dimensions shown on Drawings?

No

B. Are the manufacturer's guarantees and warranties on the proposed substitution items identical to those on the specified items? If there are differences, please specify each and every difference in detail.

Yes

C. What effect does the substitution have on other contractors, trades, or suppliers?

No

Substitution Request Form

San Mateo County Community College District

D. What are the differences between the proposed substitution and the specified item? If proposed substitution has a color or pattern, provide a color board showing proposed substitution in relation to the other adjacent colors and patterns.

NONE

E. Will granting the requested substitution cause any schedule delay? (If yes, please explain)

NO

The undersigned Bidder certifies that the function, appearance, and quality of the proposed substitution are equivalent or superior to those of the specified item. The contractor shall be responsible for all engineering, permitting, coordination, construction, and costs to all subcontractors associated with the acceptance of the substitution regardless of when those additional costs are identified.

Submitted by:

Bidder/Contractor
[note applicable]

Lynn A.C. Dellors
Signature

Lynn A.C. Dellors
Name

6200 E. MAIN AVE
Address
FOOT HILL CA 99212
City/State/Zip

Telephone: 509-343-9000

Date: 11-3-09

For Use by District:

Accepted Accepted as Noted

Not Accepted Received Too Late

By: _____
District's Representative

Date: _____

Remarks: _____

END OF DOCUMENT



Steel Stud Manufacturing Company

6200 E. Main Avenue
PO Box 11215
Spokane, WA 99211-1215

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General Product Information



Introduction

The increasing environment concerns in the world today have caused us all to examine the way we live. These issues have affected every aspect of our lives, including the materials we use in construction.

The use of cold-formed steel members as a building alternative is an intelligent choice with benefits to, not only the environment, but also to the contractor, designer and developer.

Steel is not only a recyclable product, but also a stronger product allowing for longer clear-spans in the design process. Cold-formed steel is lighter providing ease of handling. It is a straighter product giving a "true" wall with which to work. It doesn't suffer fluctuation in price, making it easier to bid a project. Quality control is stressed in all phases of the manufacturing process so the highest possible quality is delivered to the job site.

The structural shapes manufactured are easily used for non-structural and structural assemblies, floor and ceiling joist assemblies, and panelized systems. They can be used as the main structural support system or as a supplement to heavy structural steel or concrete construction.

Manufacturers have been producing cold-formed steel framing members for many years, with each manufacturer having its own nomenclature and design values. A steel member with identical properties would be identified by different names based on which manufacturer produced it. This created some confusion at all levels of the construction process.

SCAFCO is a member of The Steel Stud Manufacturers Association (SSMA). The SSMA's mission is to proactively represent member firms engaged in the manufacture, marketing and sale of cold-formed steel framing members, as a unified voice to the residential and light commercial construction industry serviced by its products, which includes contractors, distributors, design professionals, code officials and standards organizations. To this end, SSMA will endeavor to supply products which meet or exceed standards established by national, state and local code bodies and by recognized industry associations. SSMA resolves to continually initiate and adopt the development of new technology and applications for its members' products with the common goal of growing new market opportunities.

Code Approval

Products manufactured by SCAFCO are recognized by ICBO Evaluation Service and comply with the Uniform Building Code. See ICBO ES Evaluation Report No. 4943-P.

Material Specifications

Products manufactured by SCAFCO are formed from steel with a minimum yield stress of 33 ksi or 50 ksi. All products covered in this catalog are engineered to meet the 1996 Edition of the American Iron and Steel Institute, AISI, "Specification for the Design of Cold-Formed Steel Structural Members". The structural properties included in this brochure have been computed based on allowable stress design to conform to the same AISI document.

Technical Assistance

Professional technical assistance is available through SCAFCO to its customers. Using software developed specifically for SCAFCO, a manufacturer's technical representative can analyze load conditions, deflection criteria and lateral bracing conditions not presented in this brochure. Computerized design can assist a SCAFCO customer with the most economical product selection for the specific application. Contact SCAFCO for this assistance.

Disclaimer

All data, specifications and detail contained in this publication are intended as a general guide for using SCAFCO's products. These products should not be used in design or construction without an independent evaluation by a qualified engineer or architect to verify the suitability of a particular product for use in a specific application. SCAFCO assumes no liability for failure resulting from the use or misapplication of computation, detail drawings and specifications contained herein. This publication contains the latest information available at the time of printing. SCAFCO reserves the right to make modifications and/or change materials of any of their products without prior notice or obligation. For the latest information regarding a particular manufacturer's products contact SCAFCO. SCAFCO may not produce all of the products contained in this catalog. Please contact SCAFCO to verify product availability.

BOISE ☎ 208.323.4901 ☎ 208.323.4917	SEATTLE ☎ 425.488.7577 ☎ 425.488.7955	YAKIMA ☎ 509.452.6777 ☎ 509.452.4319	SACRAMENTO ☎ 916.624.7700 ☎ 916.624.3388	PORTLAND ☎ 503.282.1750 ☎ 503.282.5504	TACOMA ☎ 253.274.8933 ☎ 253.274.0558	Spokane ☎ 509.535.5637 ☎ 509.536.7151
TRI-CITIES ☎ 509.542.1411 ☎ 509.542.9799	SALEM ☎ 503.371.8033 ☎ 503.363.6671	EUGENE ☎ 541.345.8699 ☎ 541.345.2744	MEDFORD ☎ 541.773.3343 ☎ 541.773.9448	BILLINGS ☎ 406.248.2600 ☎ 406.248.8480	HAYWARD ☎ 510.780.9480 ☎ 510-780-9430	MISSOULA ☎ 406.542.7004 ☎ 406.542.5451

General Information



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Certification of Material

SCAFCO hereby certifies that all Light Gauge Steel Framing products manufactured by SCAFCO are compliant with, and will meet or exceed all applicable standards and codes as listed below:

CODE APPROVALS

ICBO Evaluation Report 4943P
City of Los Angeles Research Report RR25529

DESIGN SPECIFICATIONS / MANUALS

North American Specification for the Design of Cold-Formed Steel Structural Members, 2001 Edition w/ 2004 Supplement
Gypsum Association Fire Resistance Design Manual, 18th Edition

MATERIAL / PRODUCT SPECIFICATION

Non-Structural (Drywall) Products:
18-30 mil, 33 ksi.....ASTM A1003, C645

Non-Structural (Supreme Framing System) Products:
24 mil, 57 ksi.....ASTM A1003, C645

Structural Framing Products:
33-43 mil, 33ksi; 54-118 mil, 50ksi.....ASTM A1003, C955

COATING SPECIFICATION

Non-Structural (Drywall) Products:
18-30 mil, G40ASTM A653, C645

Structural Framing Products:
33-118 mil, G60; SCAFCO 68-118 mil, G90.....ASTM A653, C955

RECYCLED CONTENT – LEED

SCAFCO materials have a high inherent recycled content of steel, and can be used in achieving Leadership in Energy & Environmental Design (LEED) Certification Version 2.2.

For more information see www.USGBC.org, www.recycle-steel.org, or contact us at (800) 966-2467.



SSMA

Relevant ASTM Specifications

A653
Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by Hot-Dip Process

A879
Standard Specification for Steel Sheet, Zinc Coated by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface.

A1003
Standard Specification for Steel Sheet, Carbon, Metallic and Nonmetallic-Coated for Cold Formed Framing Members

B69
Standard Specification for Rolled Zinc

C645
Standard Specification for Nonstructural Steel Framing Members

C841
Standard Specification for Installation of Interior Lathing and Furring

C955
Standard Specification for Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases.

C1063
Standard Specifications for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster.

For referenced ASTM standards, visit the ASTM web site, www.astm.org, or contact ASTM Customer Service at service@astm.org.

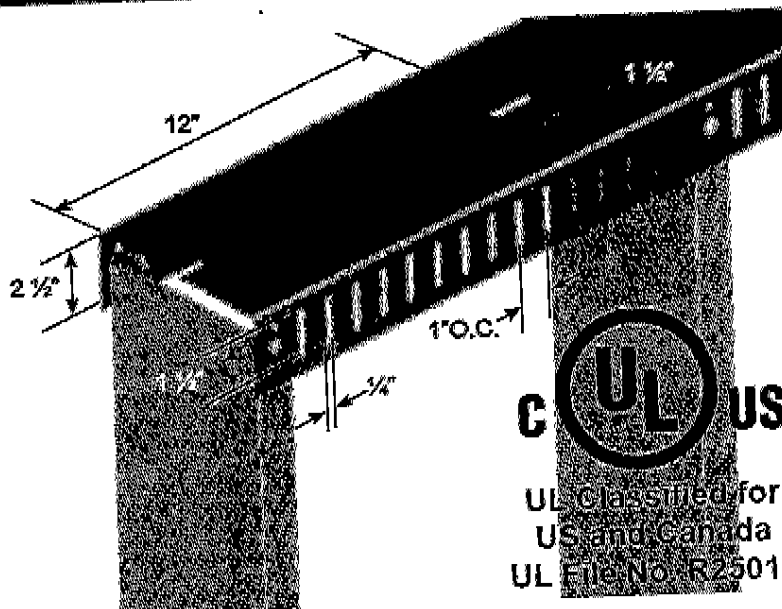


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Slotted Track

FEATURES & BENEFITS

- Fire-rated deflection system
- Standard Slotted Track allows up to 1" of vertical movement
- Custom shapes and slot sizes available
- UL Classified in over 80 approved fire rated systems
- Provides positive attachment for wall strength
- Absorbs head-of-wall and floor extension or compression movement
- Available in custom widths and thicknesses
- Integrated with traditional wall systems
- Easy installation reducing labor costs

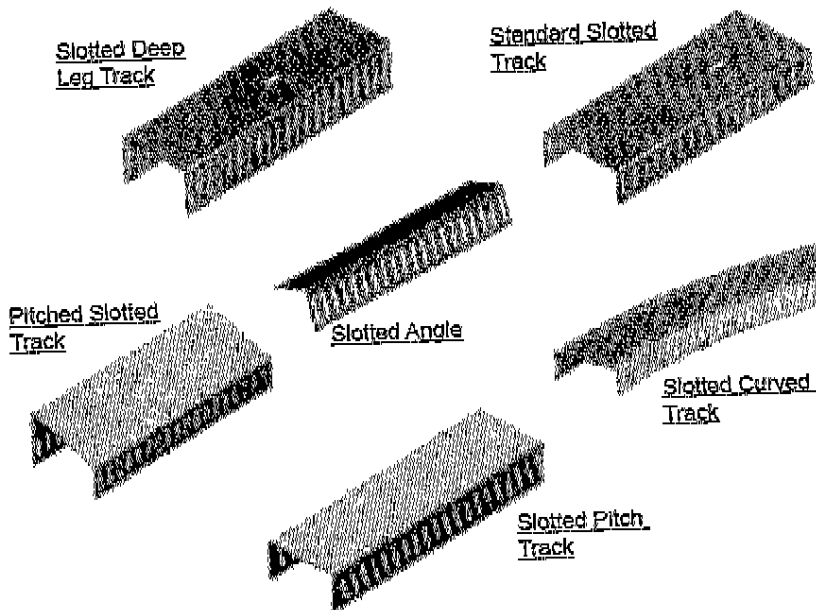


PRODUCT APPLICATION

SCAFCO Slotted Track is the industry preferred system for achieving head of wall deflection and fire rating for interior and exterior walls. SCAFCO Slotted Track has met the movement and cycling requirements of ANSI/UL 2079, and is UL classified for 1, 2, 3 & 4 Hour fire ratings in head of wall fire-rated joint systems. Details & information of each individual system can be found in the XHBN section of Volume 2 of the UL Fire Resistance Directory, or can be downloaded from www.SCAFCO.com.

MATERIAL COMPOSITION

- ASTM: A 653 / A 653M
- Yield Strength: 33, 43 mil: 33 ksi
54, 68, 97 mil: 50 ksi
- Galvanized Coating: 33,43,54 mil: G-60
68,97 mil: G-90



UL Head of Wall Joint Systems Numbers

HW-D-0003	HW-D-0076	HW-D-0170	HW-D-0241	HW-D-0275	HW-D-0016	HW-D-0077
HW-D-0173	HW-D-0242	HW-D-0277	HW-D-0020	HW-D-0082	HW-D-0183	HW-D-0243
HW-D-0278	HW-D-0021	HW-D-0083	HW-D-0184	HW-D-0246	HW-D-0293	HW-D-0024
HW-D-0084	HW-D-0185	HW-D-0259	HW-D-0313	HW-D-0025	HW-D-0085	HW-D-0186
HW-D-0260	HW-D-0322	HW-D-0029	HW-D-0087	HW-D-0190	HW-D-0263	HW-D-0341
HW-D-0031	HW-D-0088	HW-D-0193	HW-D-0265	HW-D-0034	HW-D-0089	HW-D-0194
HW-D-0271	HW-D-0036	HW-D-0091	HW-D-0195	HW-D-0272	HW-D-0042	HW-D-0099
HW-D-0205	HW-D-0043	HW-D-0101	HW-D-0210	HW-D-0044	HW-D-0102	HW-D-0217
HW-D-0045	HW-D-0106	HW-D-0218	HW-D-0046	HW-D-0107	HW-D-0047	HW-D-0108
HW-D-0048	HW-D-0111	HW-D-0049	HW-D-0134	HW-D-0054	HW-D-0136	HW-D-0062
HW-D-0137	HW-D-0063	HW-D-0144	HW-D-0067	HW-D-0146	HW-D-0068	HW-D-0152
HW-D-0069	HW-D-0154	HW-D-0071	HW-D-0160	HW-D-0072	HW-D-0162	HW-D-0073
HW-D-0167						

ADDITIONAL INFORMATION AVAILABLE @ www.SCAFCO.com

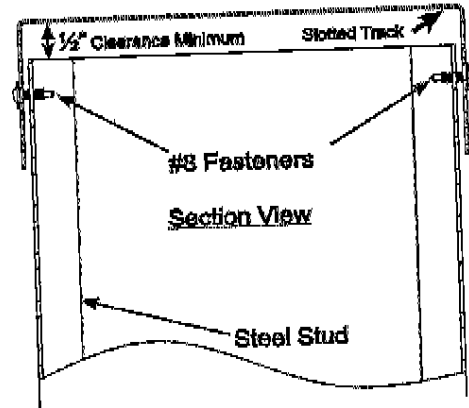


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Slotted Track

SECTION PROPERTIES

Member Designation	Fy (ksi)	Design Thickness (in)	Gross					
			Area (in ²)	Weight (lb/ft)	Ix (in ⁴)	Rx (in)	Iy (in ⁴)	Ry (in)
250SLT250-33	33	0.0346	0.259	0.88	0.339	1.144	0.178	0.827
250SLT250-43	33	0.0451	0.338	1.15	0.443	1.146	0.230	0.826
250SLT250-54	50	0.0566	0.424	1.44	0.565	1.155	0.287	0.824
250SLT250-68	50	0.0713	0.534	1.82	0.728	1.168	0.360	0.821
250SLT250-97	50	0.1017	0.761	2.59	1.086	1.195	0.506	0.815
350SLT250-33	33	0.0346	0.294	1.00	0.687	1.528	0.198	0.821
350SLT250-43	33	0.0451	0.383	1.30	0.896	1.530	0.257	0.819
350SLT250-54	50	0.0566	0.480	1.63	1.137	1.538	0.321	0.817
350SLT250-68	50	0.0713	0.605	2.06	1.454	1.550	0.401	0.814
350SLT250-97	50	0.1017	0.862	2.93	2.139	1.575	0.563	0.808
362SLT250-33	33	0.0346	0.298	1.02	0.740	1.575	0.206	0.820
362SLT250-43	33	0.0451	0.389	1.32	0.966	1.577	0.260	0.818
362SLT250-54	50	0.0566	0.487	1.66	1.224	1.585	0.324	0.816
362SLT250-68	50	0.0713	0.614	2.09	1.565	1.597	0.406	0.813
362SLT250-97	50	0.1017	0.875	2.98	2.300	1.621	0.570	0.807
400SLT250-33	33	0.0346	0.311	1.06	0.914	1.714	0.207	0.815
400SLT250-43	33	0.0451	0.405	1.38	1.193	1.715	0.268	0.813
400SLT250-54	50	0.0566	0.509	1.73	1.511	1.723	0.335	0.811
400SLT250-68	50	0.0713	0.641	2.18	1.928	1.735	0.418	0.808
400SLT250-97	50	0.1017	0.913	3.11	2.823	1.758	0.587	0.802
550SLT250-33	33	0.0346	0.363	1.24	1.839	2.251	0.228	0.792
550SLT250-43	33	0.0451	0.473	1.61	2.399	2.252	0.295	0.790
550SLT250-54	50	0.0566	0.594	2.02	3.029	2.259	0.368	0.788
550SLT250-68	50	0.0713	0.748	2.54	3.849	2.269	0.460	0.785
550SLT250-97	50	0.1017	1.066	3.63	5.588	2.290	0.646	0.779
600SLT250-33	33	0.0346	0.380	1.29	2.236	2.424	0.233	0.783
600SLT250-43	33	0.0451	0.496	1.69	2.916	2.425	0.303	0.781
600SLT250-54	50	0.0566	0.622	2.12	3.678	2.432	0.377	0.779
600SLT250-68	50	0.0713	0.783	2.67	4.670	2.442	0.472	0.776
600SLT250-97	50	0.1017	1.116	3.80	6.767	2.462	0.662	0.770
800SLT250-33	33	0.0346	0.450	1.53	4.318	3.099	0.252	0.748
800SLT250-43	33	0.0451	0.566	1.99	5.629	3.100	0.326	0.746
800SLT250-54	50	0.0566	0.735	2.50	7.090	3.106	0.407	0.744
800SLT250-68	50	0.0713	0.926	3.15	8.978	3.114	0.509	0.741
800SLT250-97	50	0.1017	1.320	4.49	12.944	3.132	0.713	0.735



Notes

1. Web-height to thickness ratio exceeds 200. Web Stiffeners are required at all support points and concentrated loads.
2. Gross properties based on the full section, not reduced for flange slots.
3. Effective properties based on a compression flange of 1/2" (before local buckling reductions) and a tension flange of 1".
4. For deflection calculations, use effective Ixx.
5. All properties based on unpunched webs.
6. Web depth is equal to the nominal depth plus two times the design thickness, plus the inside bend radius.
7. X-X properties are 'strong-axis' properties, Y-Y properties are about the 'weak-axis'.
8. Effective properties based on the "North American Specification for the Design of Cold-Formed Steel Structural Members."

2001 edition with 2004 Supplement

ORDER INFORMATION

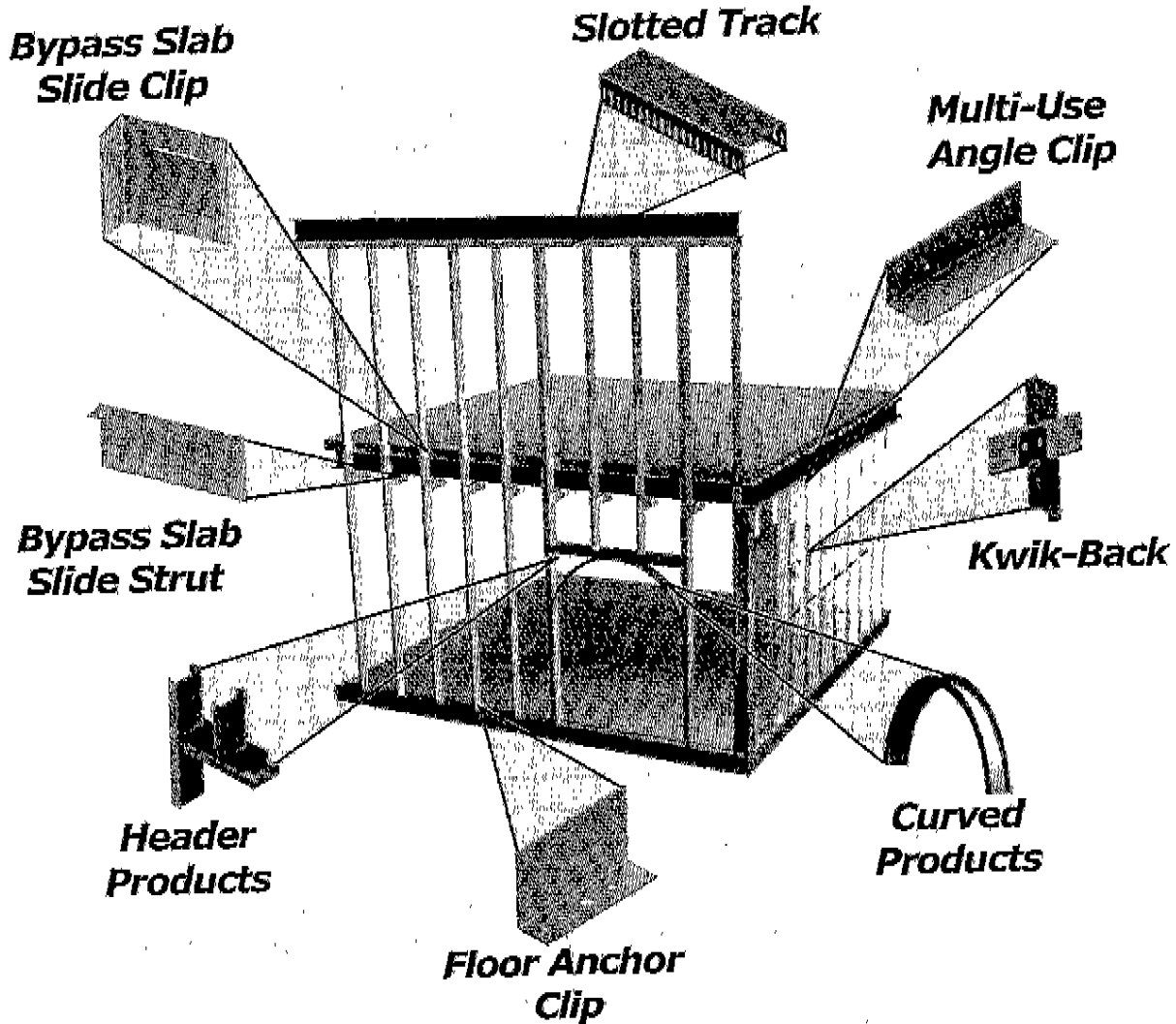
Part Number	Mils	Gauge	Design Thickness	Web Width
250SLT250-30-10	30	20	0.0312	2 1/2"
250SLT250-33-10	33	20	0.0346	2 1/2"
250SLT250-43-10	43	18	0.0451	2 1/2"
250SLT250-54-10	54	16	0.0566	2 1/2"
250SLT250-68-10	68	14	0.0713	2 1/2"
250SLT250-97-10	97	12	0.1017	2 1/2"
350SLT250-30-10	30	20	0.0312	3 1/2"
350SLT250-33-10	33	20	0.0346	3 1/2"
350SLT250-43-10	43	18	0.0451	3 1/2"
350SLT250-54-10	54	16	0.0566	3 1/2"
350SLT250-68-10	68	14	0.0713	3 1/2"
350SLT250-97-10	97	12	0.1017	3 1/2"
362SLT250-30-10	30	20	0.0312	3 3/4"
362SLT250-33-10	33	20	0.0346	3 3/4"
362SLT250-43-10	43	18	0.0451	3 3/4"
362SLT250-54-10	54	16	0.0566	3 3/4"
362SLT250-68-10	68	14	0.0713	3 3/4"
362SLT250-97-10	97	12	0.1017	3 3/4"

Part Number	Mils	Gauge	Design Thickness	Web Width
400SLT250-30-10	30	20	0.0312	4"
400SLT250-33-10	33	20	0.0346	4"
400SLT250-43-10	43	18	0.0451	4"
400SLT250-54-10	54	16	0.0566	4"
400SLT250-68-10	68	14	0.0713	4"
400SLT250-97-10	97	12	0.1017	4"
600SLT250-30-10	30	20	0.0312	6"
600SLT250-33-10	33	20	0.0346	6"
600SLT250-43-10	43	18	0.0451	6"
600SLT250-54-10	54	16	0.0566	6"
600SLT250-68-10	68	14	0.0713	6"
600SLT250-97-10	97	12	0.1017	6"
800SLT250-30-10	30	20	0.0312	8"
800SLT250-33-10	33	20	0.0346	8"
800SLT250-43-10	43	18	0.0451	8"
800SLT250-54-10	54	16	0.0566	8"
800SLT250-68-10	68	14	0.0713	8"
800SLT250-97-10	97	12	0.1017	8"

ADDITIONAL INFORMATION AVAILABLE @ www.SCAFCO.com

Deflection Track

Catalog No. **101**



**Steel Framing Connectors
& Specialty Products**

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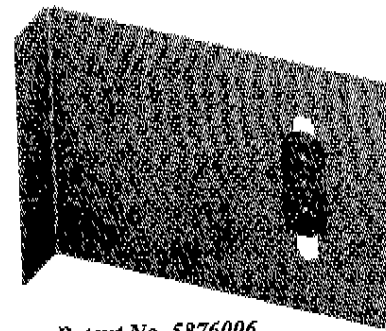
Bypass Slab Slide Clip "PLC1"

Deflection Clips

Product Application

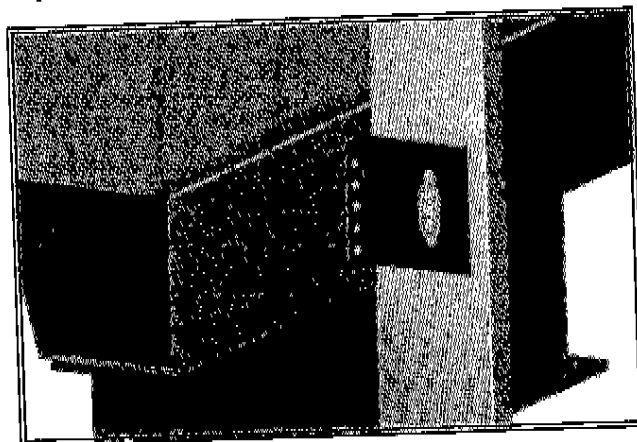
Priceless Steel Products has developed a patented Slide Clip that combines cost savings, strength and convenience. The Slide Clip "PLC1" attaches the by-pass curtain wall stud to the building structure, allowing for 1 1/2" vertical deflection while maintaining lateral rigidity. The clip can be either welded or mechanically fastened to the concrete or steel structure.

The insert is pre-taped to the clip making installation quick, easy and efficient. Clips are packaged in rugged buckets for easy handling on the jobsite. Patent No. 5876006



1 1/2" Deflection

Patent No. 5876006



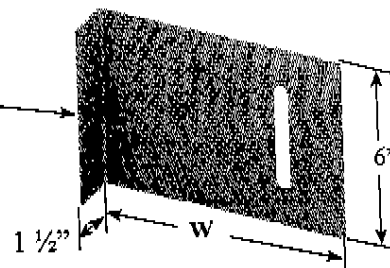
FEATURES & BENEFITS

- Unique insert allows for 1 1/2" vertical deflection while maintaining lateral rigidity
- Large insert piece for ease of handling and installation
easy visual alignment for maximum vertical movement
- Meets or exceeds building code criteria
- Produced from Mill-Certified 50 ksi steel

MATERIAL COMPOSITION

- ASTM A653/A653M, SS Grade 50, 50 ksi minimum yield strength
- G-90 hot dipped galvanized coating
- Slide Clip Material Thickness = 68 mil (14 gauge, 0.071" design thickness)
- Insert Material Thickness = 86 mil (13 gauge, 0.088" design thickness)

Material Thickness 68 mil (14 Gauge)



Material Thickness 86 mil (13 Gauge)



Pre-Punched Holes for Framing Screws

QUANTITY / ORDER INFORMATION

Model No.	Material Thickness		Dimensions		Stud Width	Qty. /Bucket	Lbs. /Bucket	Buckets /Skid	"Lbs. /Skid"
	Mils	Gauge	W	H					
PLC1-350	68	14	3 1/2"	6"	3 1/2", 3 3/4", 4"	75	48	40	1960
PLC1-550	68	14	5 1/2"	6"	6"	50	44	40	1800
PLC1-750	68	14	7 1/2"	6"	8"	35	41	40	1680
PLC1-950	68	14	9 1/2"	6"	10", 12"	35	47	40	1920

Note: All Priceless Clips include insert. Additional lengths available upon request.



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Bypass Slab Slide Clip (PLC)

Deflection Clips

ALLOWABLE LOADS

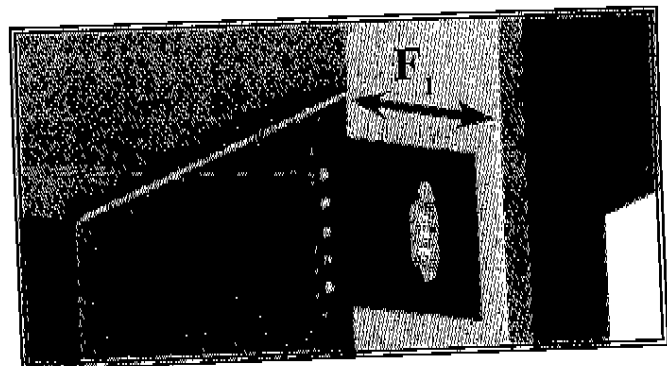
Model No.	Stud Thickness		Yield Strength (ksi)	* Allowable Loads (lbs.)			
	Mils	Gauge		F1 w/2 #10 Screws	F1 w/3 #10 Screws	F1 w/2 #12 Screws	F1 w/3 #12 Screws
PLC1-350	33	20	33	354	531	-	-
	43	18	33	526	789	560	840
	54	16	50	740	1110	788	1182
	68	14	50	1046	1569	1114	1671

Model No.	Stud Thickness		Yield Strength (ksi)	* Allowable Loads (lbs.)			
	Mils	Gauge		F1 w/2 #10 Screws	F1 w/3 #10 Screws	F1 w/2 #12 Screws	F1 w/3 #12 Screws
PLC1-550	33	20	33	354	531	-	-
	43	18	33	526	789	560	840
	54	16	50	740	1110	788	1182
	68	14	50	1046	1569	1114	1671

Model No.	Stud Thickness		Yield Strength (ksi)	* Allowable Loads (lbs.)			
	Mils	Gauge		F1 w/2 #10 Screws	F1 w/3 #10 Screws	F1 w/2 #12 Screws	F1 w/3 #12 Screws
PLC1-750	33	20	33	354	531	-	-
	43	18	33	526	789	560	840
	54	16	50	740	1110	788	1182
	68	14	50	1046	1435	1114	1435

Model No.	Stud Thickness		Yield Strength (ksi)	* Allowable Loads (lbs.)			
	Mils	Gauge		F1 w/2 #10 Screws	F1 w/3 #10 Screws	F1 w/2 #12 Screws	F1 w/3 #12 Screws
PLC1-950	33	20	33	354	531	-	-
	43	18	33	526	751	560	751
	54	16	50	740	751	751	751
	68	14	50	751	751	751	751

*Allowable loads have not been increased for wind, seismic or other factors. Design based on the 2001 AISI using the LRFD method, $\phi_c = 0.85$. Loads have been calculated by a National known Structural Engineering Firm "KPF Consulting Engineers."





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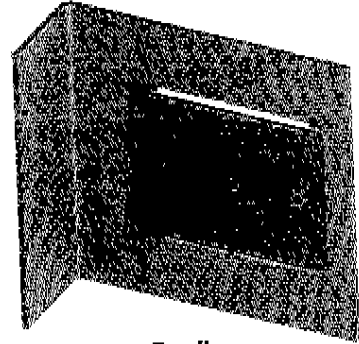
Bypass Slab Slide Clip "PLC2"

Deflection Clips

PRODUCT APPLICATION

Priceless Steel Products has developed a patented Slide Clip that combines cost savings, strength and convenience. The Slide Clip "PLC2" attaches the by-pass curtain wall stud to the building structure, allowing for 1 1/2" vertical deflection while maintaining lateral rigidity. The clip can be either welded or mechanically fastened to the concrete or steel structure.

The insert is pre-taped to the clip making installation quick, easy and efficient. Clips are packaged in rugged buckets for easy handling on the job site. Priceless Steel Products are independently tested and are in accordance with ICBO AC13 & ASTM A653/A653M. *Patent Pending.*

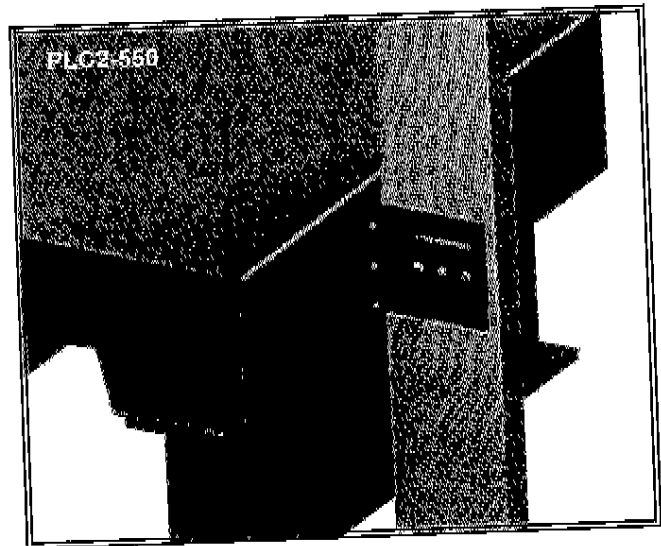
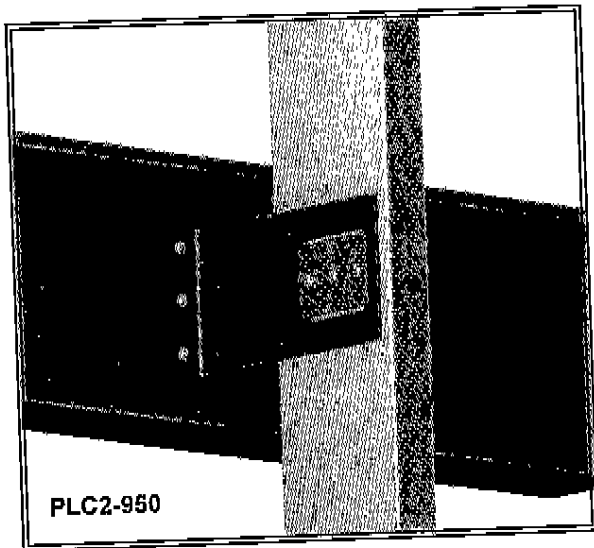


1 1/2" Deflection

Patent Pending

FEATURES & BENEFITS

- Long return leg for permanent toe and heel welding to the support structure
- Thicker steel for improved lateral resistance for in-plane seismic forces and strengthened weld ability to the structure
- Unique insert allows for 1 1/2" vertical deflection while maintaining lateral rigidity
- Large insert piece for easy handling, installation and clear visual alignment for maximum vertical movement
- Pre-punched return leg for mechanical attachment to concrete or steel support structure
- Meets or exceeds building code criteria



MATERIAL COMPOSITION

- ASTM A653/A653M, 50 ksi minimum yield strength
- G-90 hot dipped galvanized coating
- Slide Clip Material Thickness = 114 mil (11 gauge, 0.116" design thickness)
- Insert Material Thickness = 118 mil (10 gauge, 0.1242" design thickness)

ADDITIONAL INFORMATION AVAILABLE @ WWW.PRICELESSSTEEL.COM



Tel: 800-966-2467 • Fax: 888-318-7258 • Mail@SCAFCO.com • www.SCAFCO.com

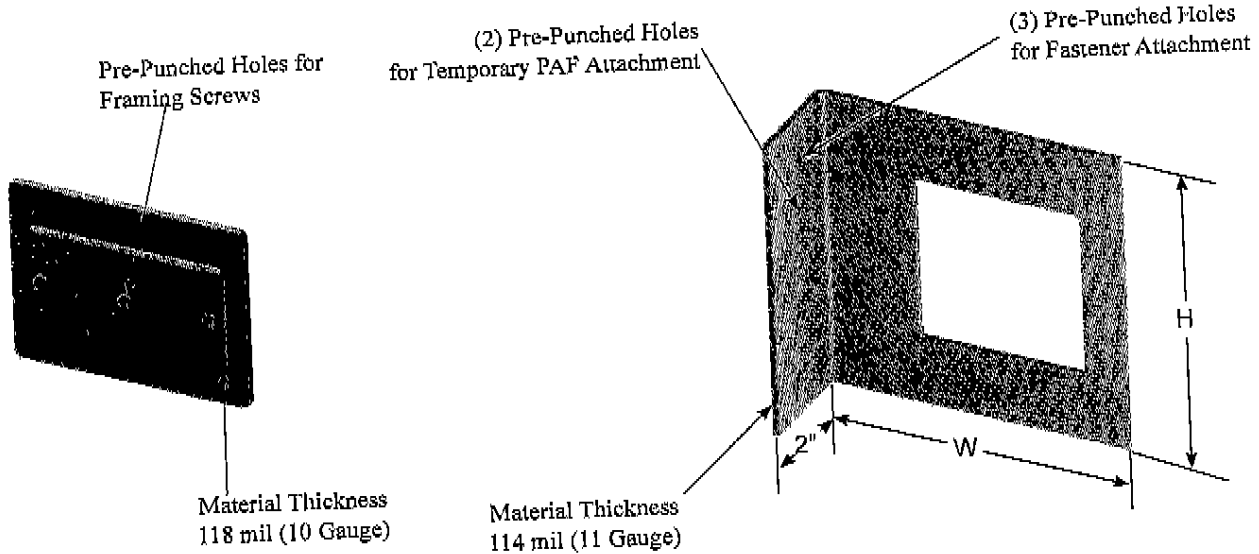
Bypass Slab Slide Clip 'PLC2'

Deflection Clip

QUANTITY / ORDER INFORMATION

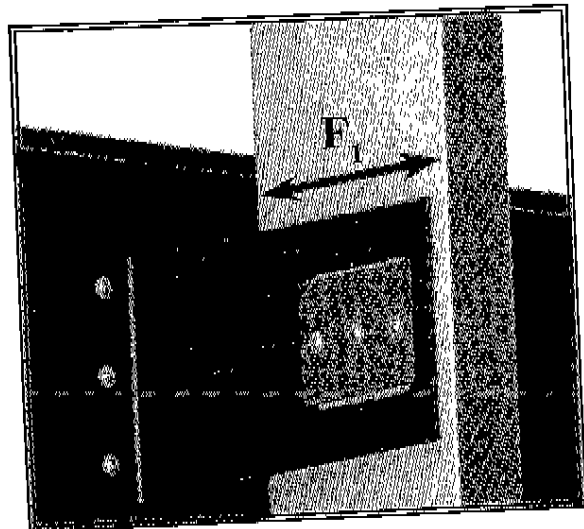
Model No.	Material Thickness		Dimensions		Stud Width	"Qty. /Bucket"	"Lbs. /Bucket"	"Buckets /Skid"	"Lbs. /Skid"
	Mils	Gauge	W	H					
PLC2-550	114	11	5 1/2"	5 1/2"	6"	30	46	40	1880
PLC2-750	114	11	7 1/2"	5 1/2"	8"	30	56	40	2280
PLC2-950	114	11	9 1/2"	5 1/2"	10"	25	58	40	2360
PLC2-1150	114	11	11 1/2"	5 1/2"	12"	20	54	40	2200

*Note: All Priceless 2 Clips include insert. Additional lengths available upon request.



ALLOWABLE LOADS

Allowable loads are based on testing performed by an independent testing lab. Test data is in accordance with ICBO AC13 "Acceptance Criteria for Joist Hangers and Similar Devices" with a safety factor of 3. Allowable loads based on (3) #10 screws from clip-insert to stud. Values for 54-mil and 68-mil studs are based on studs with Fy-50-ksi. For complete test results data, please contact Priceless Steel Products at (888) 318-6851.



Bid Phase Substitution Request Response Form



Date: November 29, 2009
Total Pages: 1 (Including this transmittal sheet)
To (Requestor): Michael Cartwright
Firm/Agency: Newline
Fax: (972) 881-0985

S.R. No. 001 **S.R. Date:** Nov. 2, 2009
Project #: 07013
Project Name: Cañada College – Bldg. 5/6 Modernization
CC:
Client: Alex Acenas, SMCCCD CPD
Client Fax:

Attachments:

Date	Pages	Description
	1	Substitution Request & Response Forms

Request:	Spec. Section(s)	Drawing No(s)	Detail No.
Visual Display Board	10 11 00		

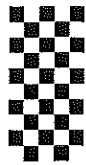
Response:

Accepted as substitution for Markerboards and Tackboards as described in specification section 10 11 00 with the following conditions:

1. Newline specification accompanying substitution request not accepted – abide by the project specifications in section 10 11 00.
2. Provide Markerboard (Flat Style) as shown in sheet 1 of 1 in substitution request, as the profile of the markertray matches that of detail 23/A10.51.

Response Submitted By: Dan Patterson
Project Architect

If you have any problem receiving this fax, please call 510.445.1000



Michael Cartwright
Account Manager
2901 Technology Drive, Suite 135
Plano, TX 75074
Phone (972) 881-3318 x.22
Fax (972) 881-0985
Email: michael.cartwright@newlineproductinc.com



To: BCA (Bunton Clifford Assoc), Paul Bunton
Fax: 510-4451005

From: Michael Cartwright
Pages: 10 + cover

Re: **Substitution Request - Visual Display Boards**

Canada College Building 5/6 Modernizations

We hereby submit for your consideration Newline Products, Inc. as an equal manufacturer of visual display surfaces for the Canada College Building 5/6 Modernizations project and all upcoming projects that require visual display surfaces.

The undersigned certifies the following statements are true should the substitution request be approved:

1. The proposed substitution does not affect dimensions shown on the drawings.
2. The proposed substitution will have no adverse affect on other work, directly related or otherwise, nor the construction schedule or specified warranty requirements.
3. Maintenance and service parts will be available for the proposed substitution.

We further certify that the function, appearance, and quality of the proposed substitution is equivalent or superior to the specified item.

Submitted by:

For Architect's Use Only:

Michael Cartwright
Account Manager

October 26, 2009
Date

Accepted: _____
Accepted as noted: _____
Not Accepted _____
Received too late: _____
By: _____
Date: _____
Remarks: _____

Specification Comparison
Canada College Building 5/6 Modernizations

Project Name:

Markerboards

	Specification Requirements	Newline Products
Facesheet	Not Specified	24GA.
Core	1/2" Particleboard	1/2" Particleboard
Backsheet	Alum. Foil 0.015"	Alum. Foil 0.015"
Markertray	Solid type	Solid type
Display Rail / End Stops	2" Map Rail w/ 2 End Stops	2" Map Rail w/ 2 End Stops
Map Hooks	1 Per 2 ft of Map Rail	1 Per 2 ft of Map Rail
Flag Holder	1 Per Each Room	1 Per Each Room
Warranty	50 Years / Lifetime of Building	50 Years / Lifetime of Building

Tack Board

	Specification Requirements	Newline Products
Cork	1/8" Natural Cork	1/8" Natural Cork
Backing	3/8" Fiberboard	3/8" Fiberboard
Fabric	Vinyl	Vinyl

NOTE: The use of these products will not affect other trades and will not affect existing plans.

Newline

Newline Products, Inc. (NPI)
2910 Technology Drive, Suite 135
Plano, Texas 75074

Company Information

Overview

Newline Products, Inc. (NPI) provides a line of high quality visual communications products at extremely competitive prices to academic, civic, and corporate customers. Our product offering includes porcelain enamel markerboards, chalkboards, and tackboards.

Mission

Customers that do business with NPI are assured that each member of the NPI team is completely committed to deliver on three simple promises.

- We supply the highest quality visual communication products on the market.
- We provide superior value by combining our high quality products with some of the lowest prices in the industry.
- We provide world-class customer service to each customer every day.

Every member of the NPI team is convinced that our continued success is directly related to our ability to deliver on these three promises we make to our customers every day.

Contact Information

Contact us at: Newline Products, Inc. (NPI)
2901 Technology Drive, Suite 135
Plano, Texas 75074
Phone: (972) 881-3318
Fax: (972) 881-0985
E-mail: info@newlineproduct.com

Product Information

To enable our customers to efficiently become familiar with our product offering, we have included the following technical information.

- Product Specifications Document
- Shop Drawings

Quality

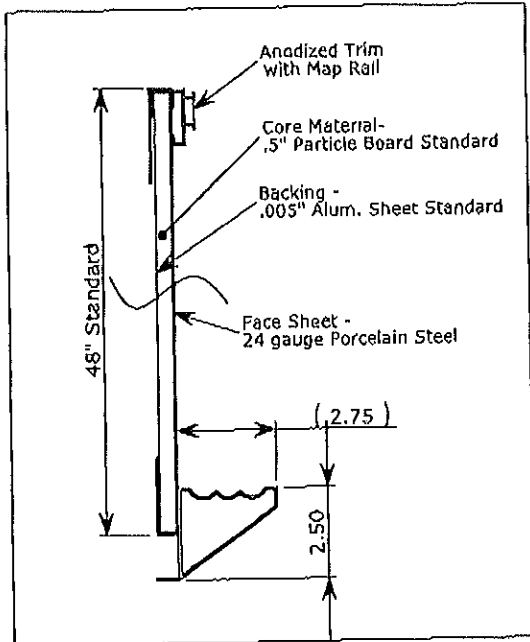
Value

Service

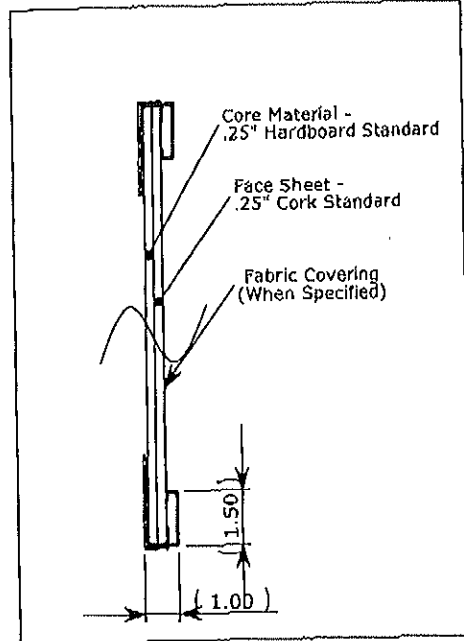
Rev. 030726E

RECEIVED TIME OCT. 26. 11:06AM

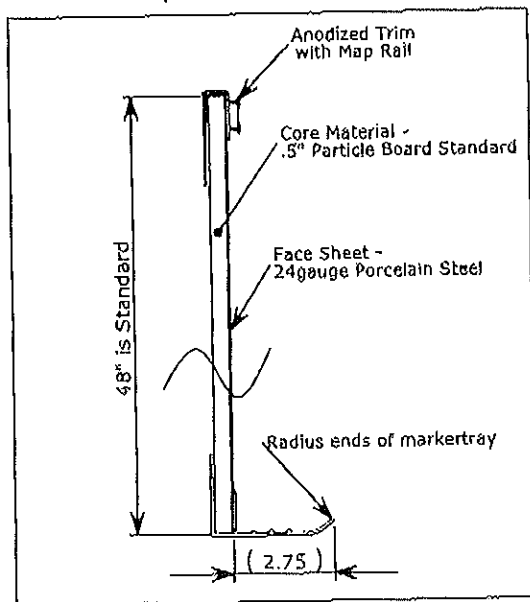
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



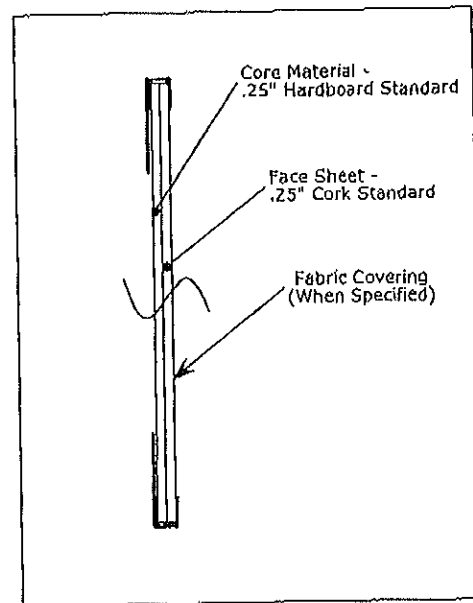
Markerboard
(Box Style)



Tackboard
(Box Style)



Markerboard
(Flat style)

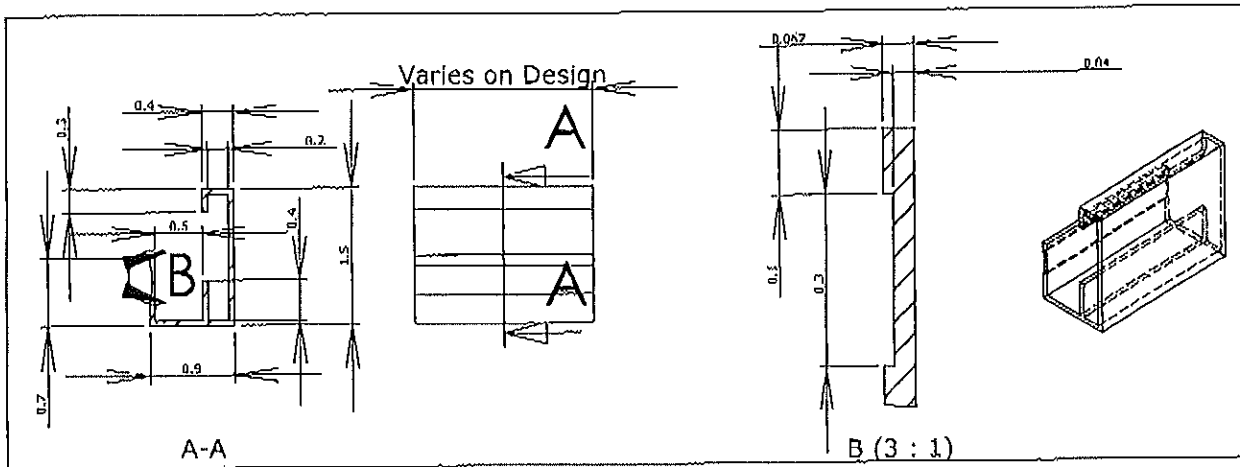


Tackboard
(Flat style)

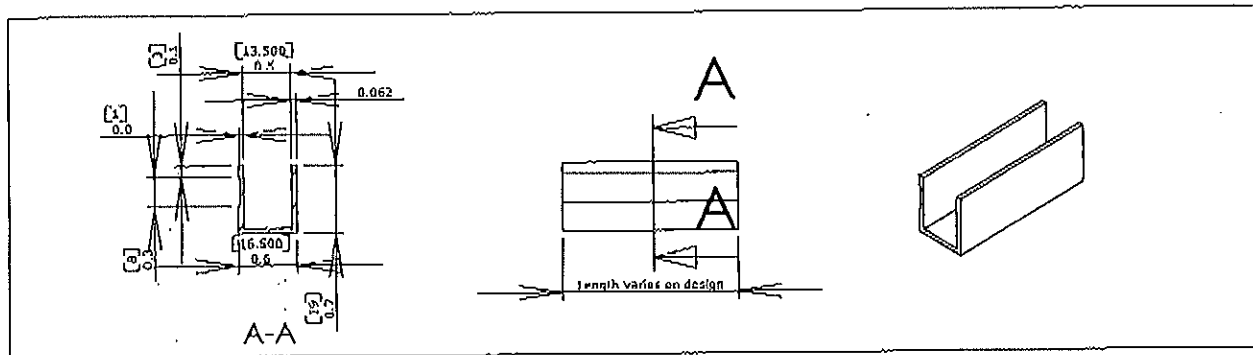
1.) Drawing is for assembly description only.
Some parts are not to scale for clarity purposes.

<p>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NEWLINE PRODUCTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NEWLINE PRODUCTS INC. IS PROHIBITED.</p>			<p>DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±</p>	<table border="1"> <tr> <th>NAME</th> <th>DATE</th> </tr> <tr> <td>DRAWN KMJ</td> <td>2002/06/08</td> </tr> <tr> <td>CHECKED KMJ</td> <td>2002/06/08</td> </tr> <tr> <td>ENG APPR.</td> <td></td> </tr> <tr> <td>MFG APPR.</td> <td></td> </tr> <tr> <td>Q.A.</td> <td></td> </tr> </table>	NAME	DATE	DRAWN KMJ	2002/06/08	CHECKED KMJ	2002/06/08	ENG APPR.		MFG APPR.		Q.A.		<p>NEWLINE PRODUCTS, INC.</p>
	NAME	DATE															
	DRAWN KMJ	2002/06/08															
	CHECKED KMJ	2002/06/08															
	ENG APPR.																
MFG APPR.																	
Q.A.																	
			<p>MATERIAL Various</p>		<p>Visual Display Boards (Deluxe Series)</p>												
			<p>FINISH SEE NOTES ABOVE</p>														
			<p>COMMENTS:</p>														
	NEXT ASSY	USED ON			<p>SIZE DWG. NO. A</p>												
	APPLICATION		DO NOT SCALE DRAWING		<p>SCALE: 1:5 WEIGHT: SHEET 1 OF 1</p>												

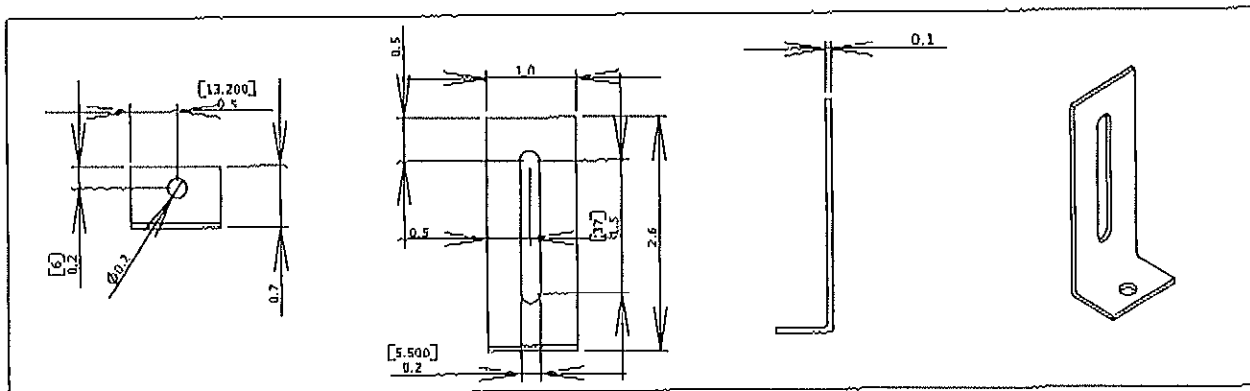
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



Box Trim



Flat Trim



Angle Clip

- Class II, Clear Anodic finish, AAM12022A31
(Mechanical finish: nonspecular as fabricated;
chemical finish: etched, medium matte)

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NEWLINE PRODUCTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NEWLINE PRODUCTS INC. IS PROHIBITED.	DIMENSIONS ARE IN MM		NAME	DATE	NEWLINE PRODUCTS INC. Trim and Angle Clip Standard	
	TOLERANCES:		DRAWN	KMJ		6/23/2005
	FRACTIONAL ±		CHECKED	KMJ		6/23/2005
	ANGULAR; MACH ± BEND ±		ENG APPR.			
TWO PLACE DECIMAL ±		MFG APPR.			COMMENTS: In. dim. shown in brackets	
THREE PLACE DECIMAL ±		Q.A.				
MATERIAL ALUM 6061						
NEXT ASSY	USED ON	FINISH SEE NOTES ABOVE	SCALE: 1:2		WEIGHT	
APPLICATION DO NOT SCALE DRAWING			SHEET 1 OF 1		REV.	

SECTION 11 52 16
PROJECTOR MOUNTS

PART 1 - GENERAL**1.1 SUMMARY**

- A. Section includes mounting brackets for LCD ceiling projectors.
- B. Related Sections:
 - 1. Section 05 40 00 – Cold-Formed Metal Framing: Interface with structural framing.
 - 2. Section 09 51 13 - Acoustical Panel Ceilings: Interface with suspended acoustical panel ceiling.
 - 3. Division 26 – Electrical: Electrical and Data Outlets.
- C. Products Installed But Not Supplied Under This Section:
 - 1. LCD ceiling projectors are Owner-Furnished, Contractor Installed.

1.2 SUBMITTALS

- A. Section 01 32 19 – Submittals: Submittal procedures.
- B. Product Data: Submit manufacturer's product data completely describing products.
- C. Manufacturer's Installation Instructions: Submit manufacturer's installation instructions, special procedures

1.3 QUALITY ASSURANCE

- A. Requirements of Regulatory Agencies: Conform to State Accessibility Regulations.

1.4 PROJECT CONDITIONS

- A. Coordinate work with related work of other Sections. Verify internal ceiling reinforcement prior to installation of items.

PART 2 - PRODUCTS**2.1 CEILING PROJECTOR MOUNT**

- A. Manufacturers:
 - 1. Peerless Industries, Inc., 800-574-8921.
 - 2. Substitutions: Section 01 63 00 – Product Requirements.

2.2 MATERIALS

- A. Sheet Steel: ANSI/ASTM A366.
- B. Fasteners, Screws, and Bolts: Hot dip galvanized.
- C. Expansion Bolts: Dyna-Bolt or equivalent; size as recommended by accessory manufacturer for component and substrate.

2.3 MANUFACTURED UNITS

- A. Ceiling Mount for LCD Projector:
 - 1. Manufacturer: Peerless Industries, Inc.
 - 2. Model: CMJ455 Lightweight Suspended Ceiling Plate for Projector Mounts.
 - 3. Maximum Load: 50 lbs.
 - 4. Dimensions:
 - a. Ceiling Tray: 15.75 inches by 24 inches by 1 inch height.
 - b. Filler Tray; 8 inches by 24 inches by 1 inch height.
 - 5. Ceiling Tray: Features a 1 1/2-11.5 NPS center threaded fitting and a knockout panel for outlet boxes (Raco 445 or Appleton 383 recommended) and antenna leads.
 - 6. Includes a tie wire support system to transfer the load to four attachment points (in true structural ceiling/roof above) with turnbuckles to fine tune the level of the ceiling tray.
 - 7. U.L. listed.
 - 8. Finish: White Fused Epoxy.

- B. Wall Mount for LCD Projector:
 - 1. Manufacturer: Peerless Industries, Inc.
 - 2. Model: PSTK-028-W Short Throw Projector Mounts.
 - 3. Maximum Load: 50 lbs.
 - 4. Dimensions:
 - a. Wall Plate: 18.5 inches wide by 13.11 inches high by 0.42 inches thick.
 - b. Projector Arm; 3.93 inches wide by 11 inches high by 36.2 inches deep.
 - c. Unit Weight (unloaded): 16 lbs.
 - 5. Finish: White Fused Epoxy.

2.4 FABRICATION

- A. Shop assemble components and package complete with anchors and fittings.
- B. Provide steel anchor plates, adapters, and anchor components for installation.

PART 3 - EXECUTION

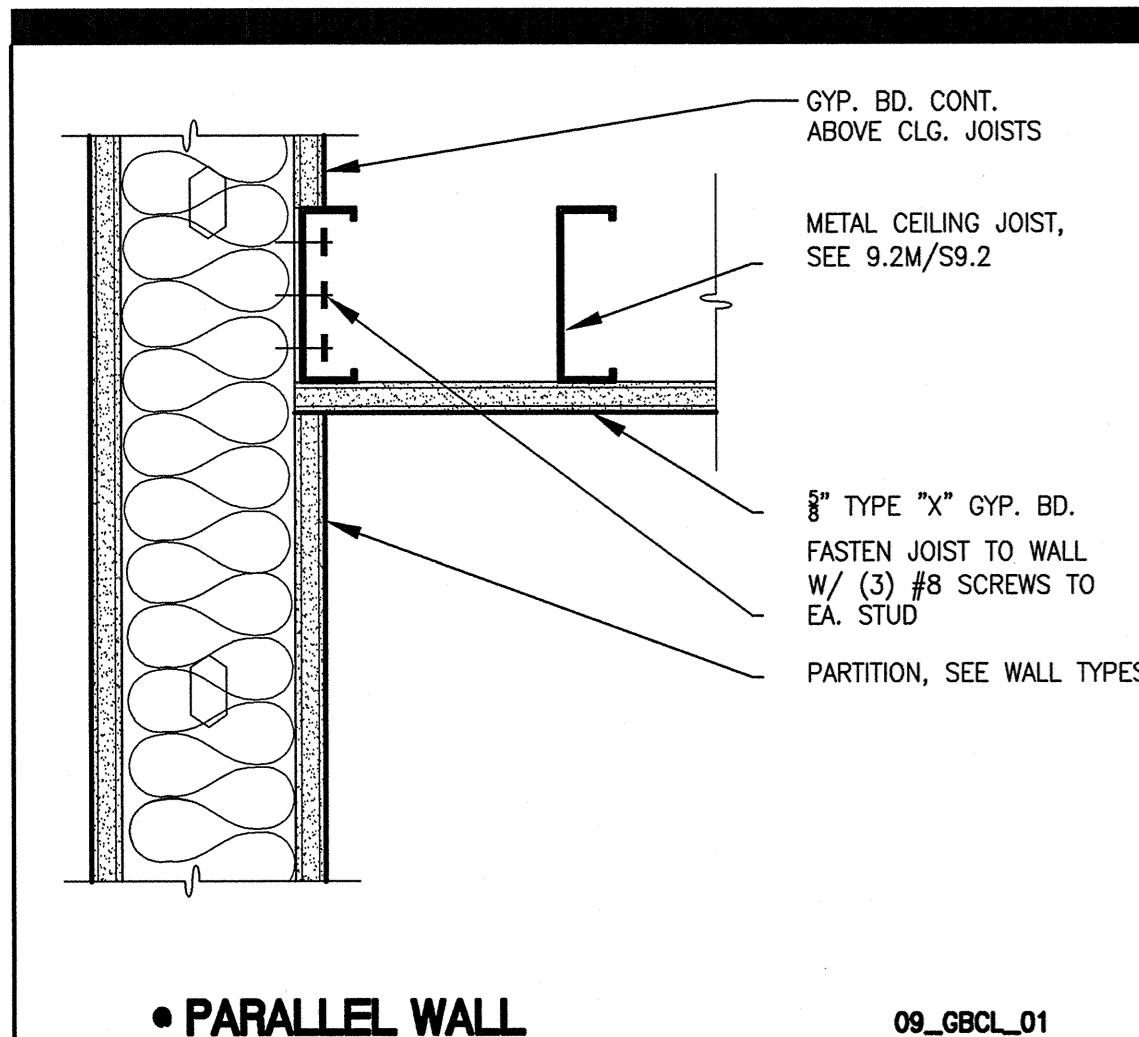
3.1 EXAMINATION

- A. Verify that site conditions are ready to receive work and dimensions are as instructed by the manufacturer, or as shown on Drawings.

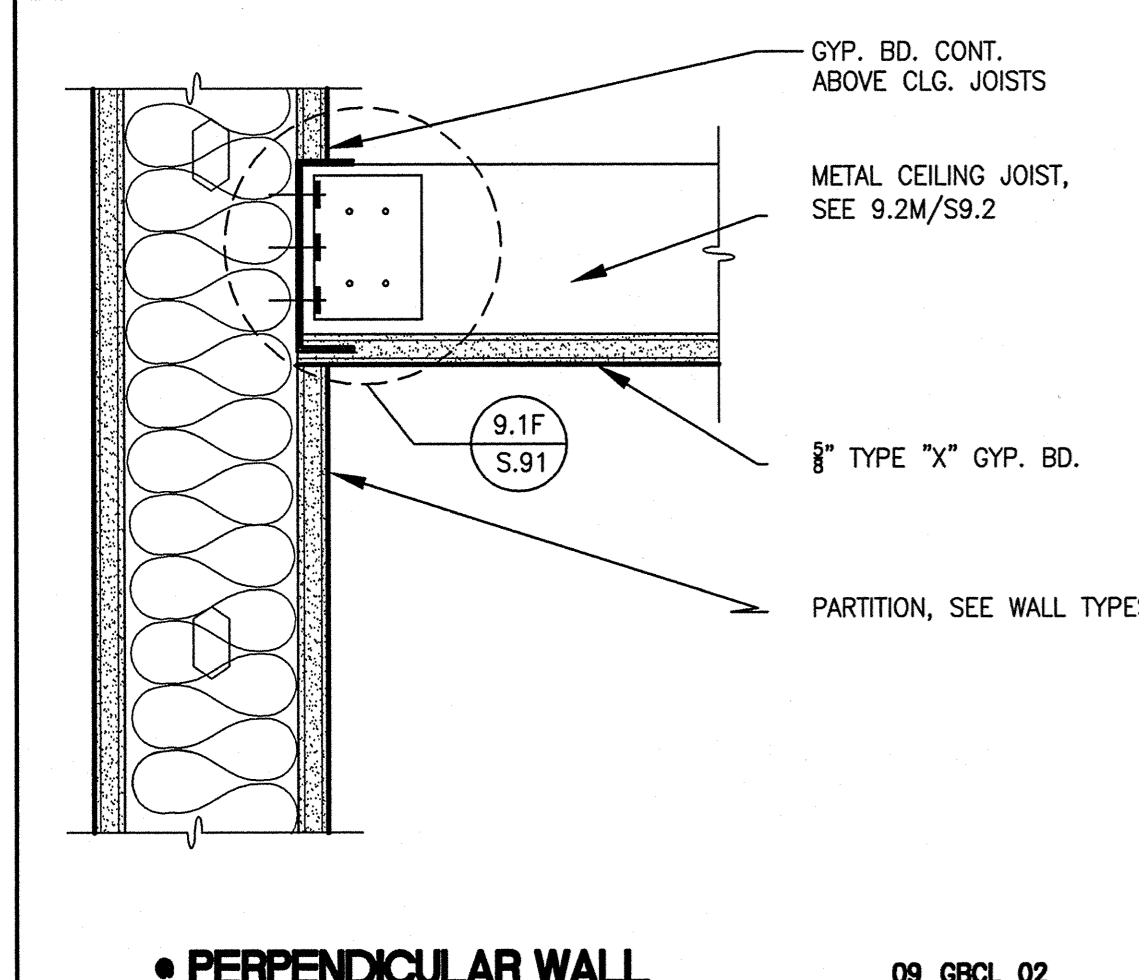
3.2 INSTALLATION

- A. Install LCD Ceiling Projector Mounts and Wall Mounts in accordance with manufacturers' instructions, in locations shown on Drawings.
- B. Install plumb and level, securely and rigidly anchored to substrate.
- C. Install Owner-furnished LCD Ceiling Projectors and Wall Projectors in the projector mounts.

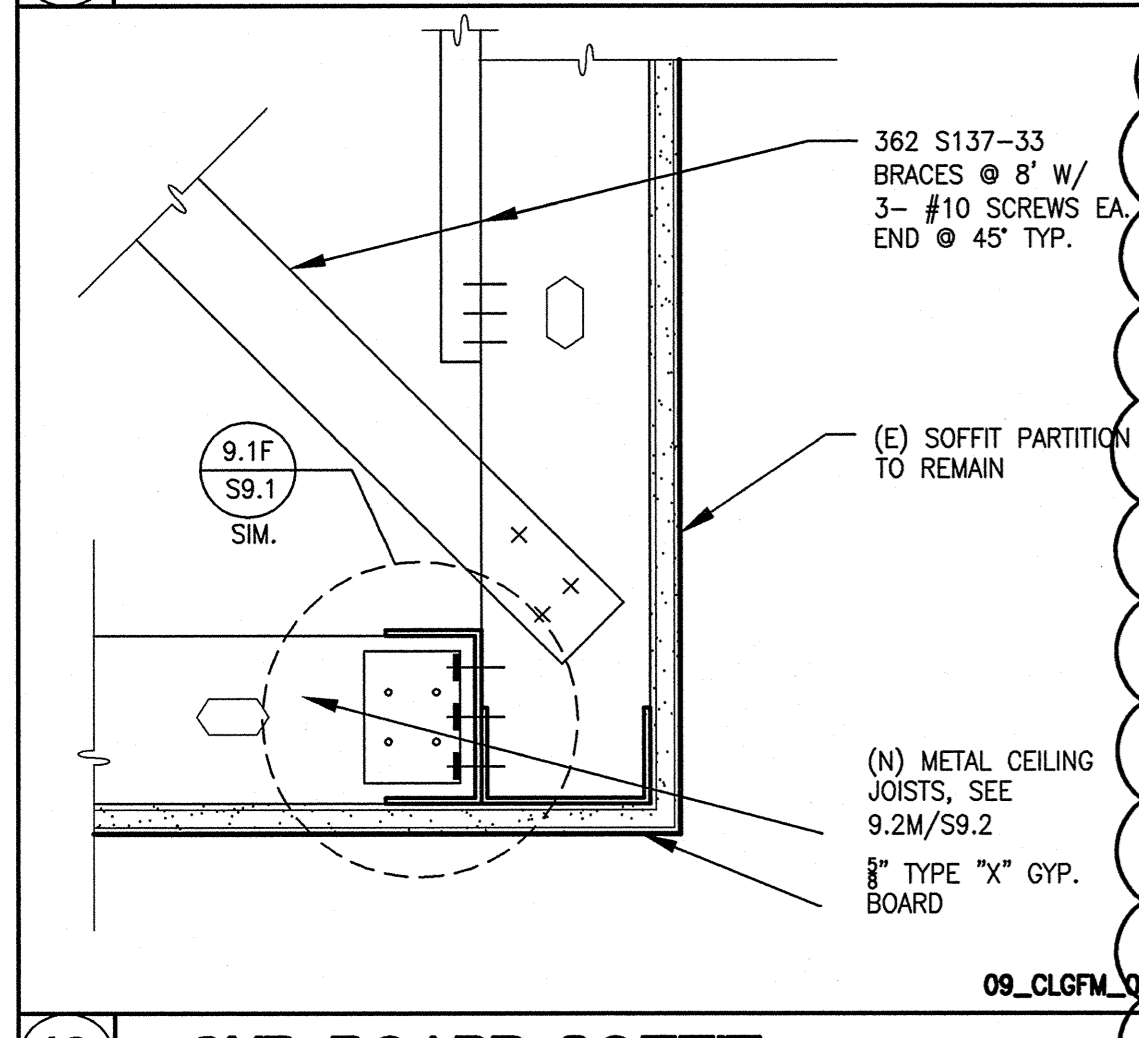
END OF SECTION



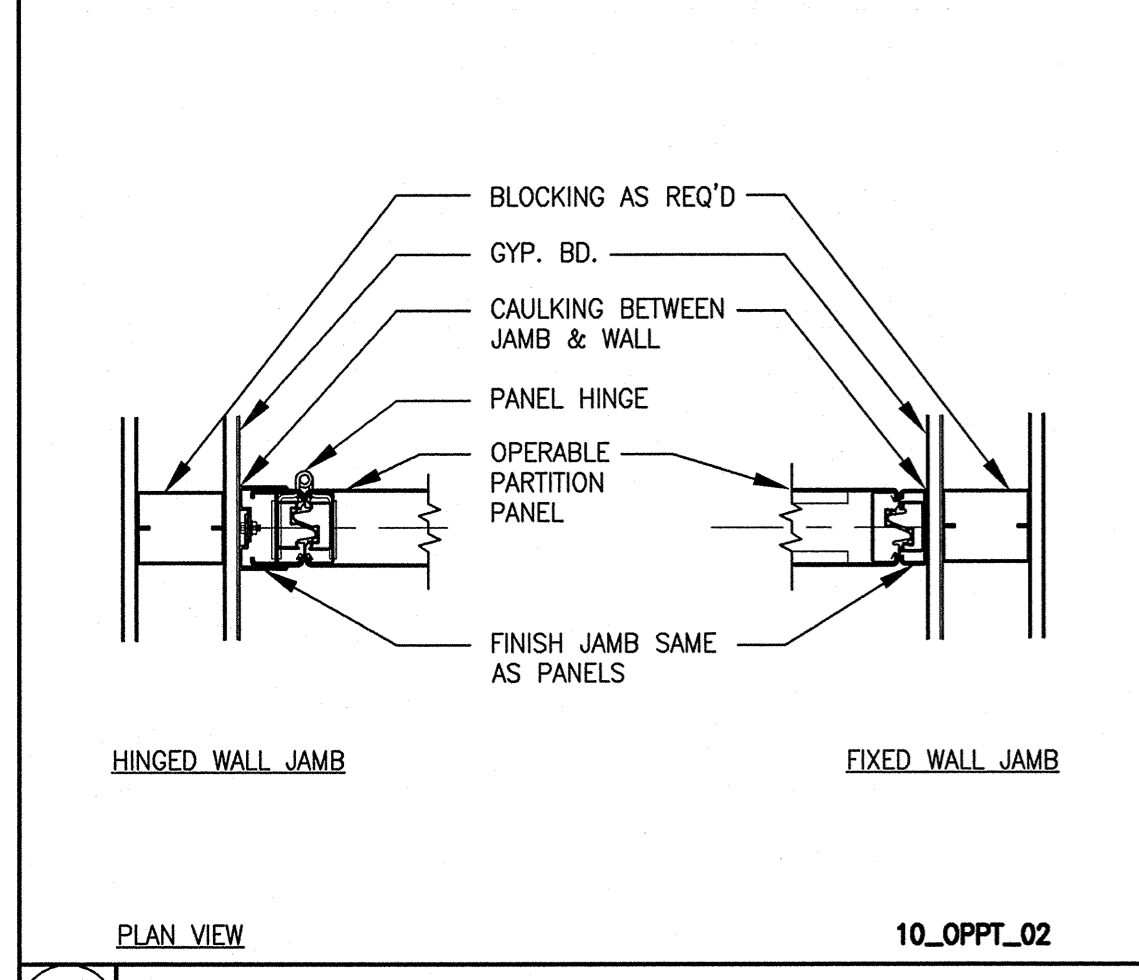
16 **CEILING FRAMING** 3" = 1'-0"



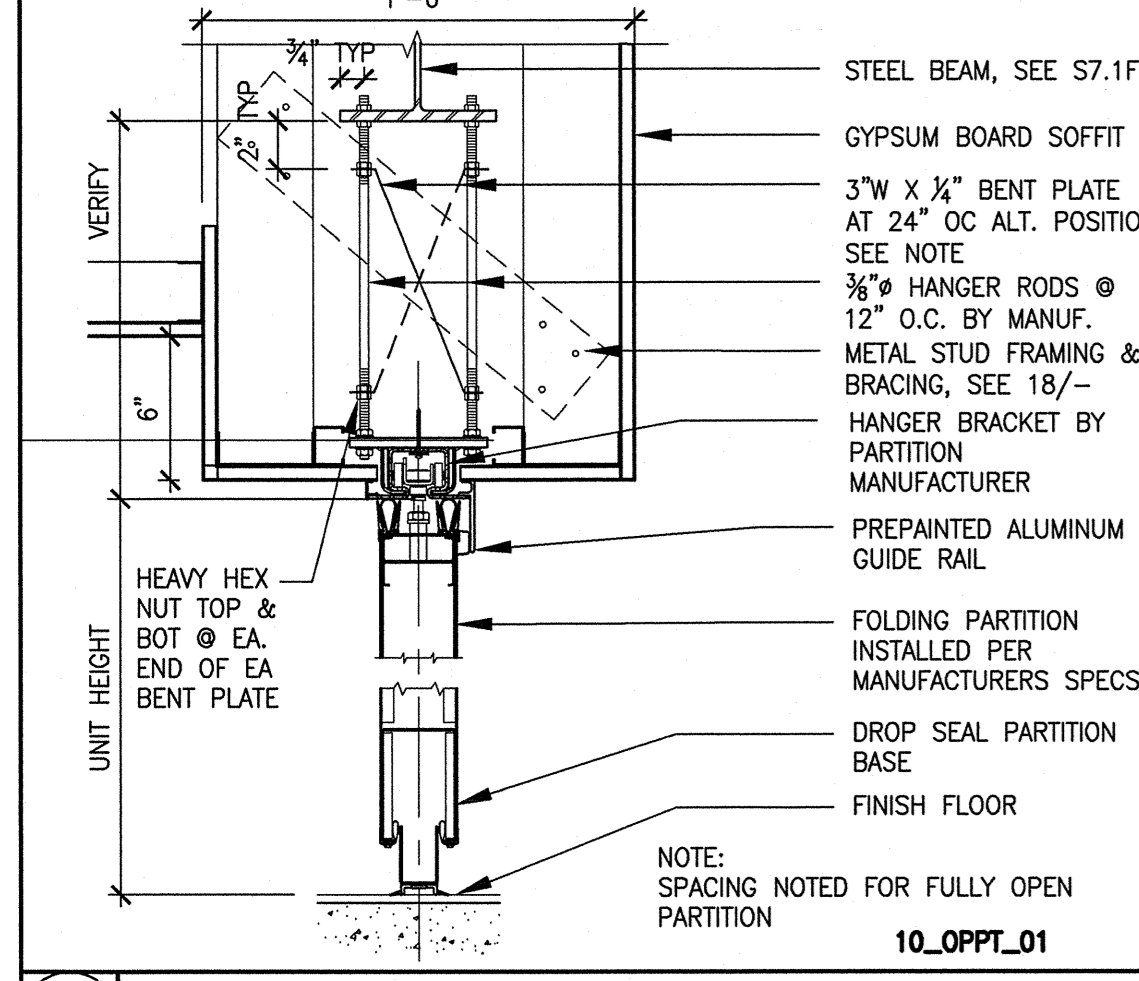
17 **CEILING FRAMING** 3" = 1'-0"



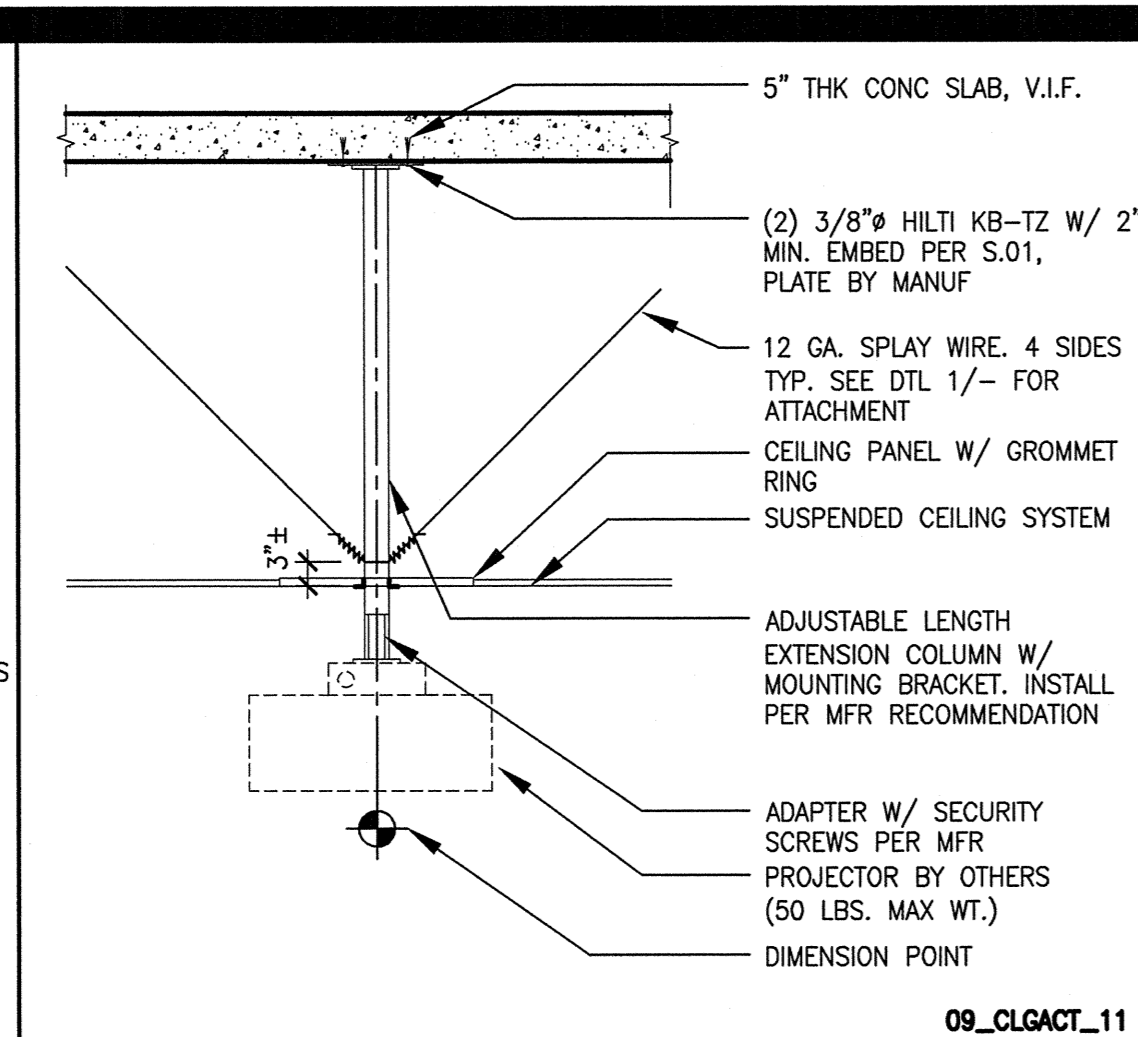
18 **GYP. BOARD SOFFIT** 3" = 1'-0"



19 **OPERABLE PARTITION** 1'-1/2" = 1'-0"



20 **OPERABLE PARTITION** 1'-1/2" = 1'-0"

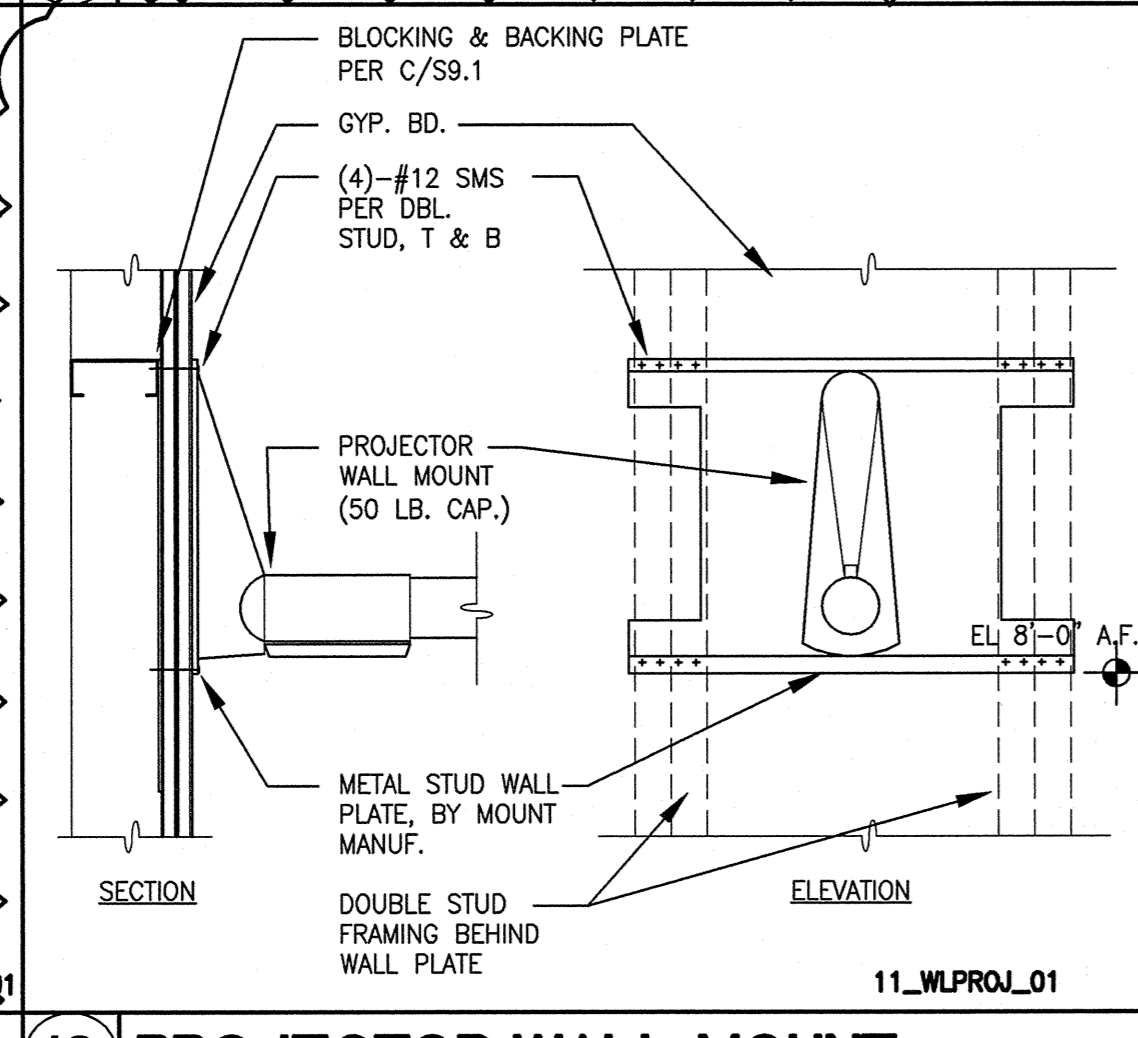


11 **TYP. PROJECTOR MOUNTING** 1/2" = 1'-0"

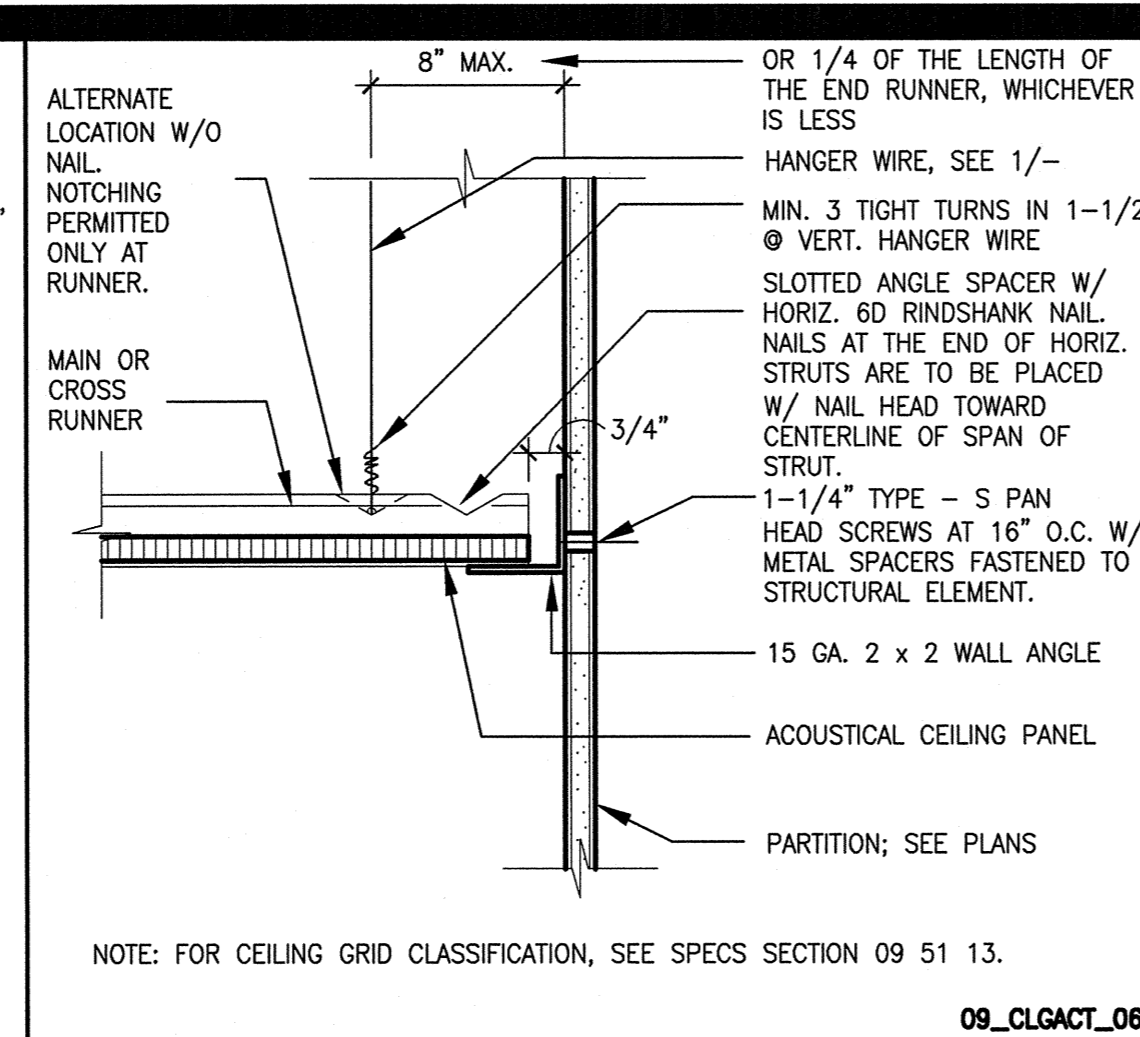
COMPRESSION STRUT TABLE

COMPRESSION STRUT MAX. HEIGHT	STRUT	R	L/R
UP TO 4'-0"	3/4" DIA. THIN WALL CONDUIT	0.248	193
UP TO 8'-0"	250 S137-33	0.515	182
UP TO 10'-0"	1 5/8" X 16 GA P2000 UNISTRUT CHANNEL	0.650	198

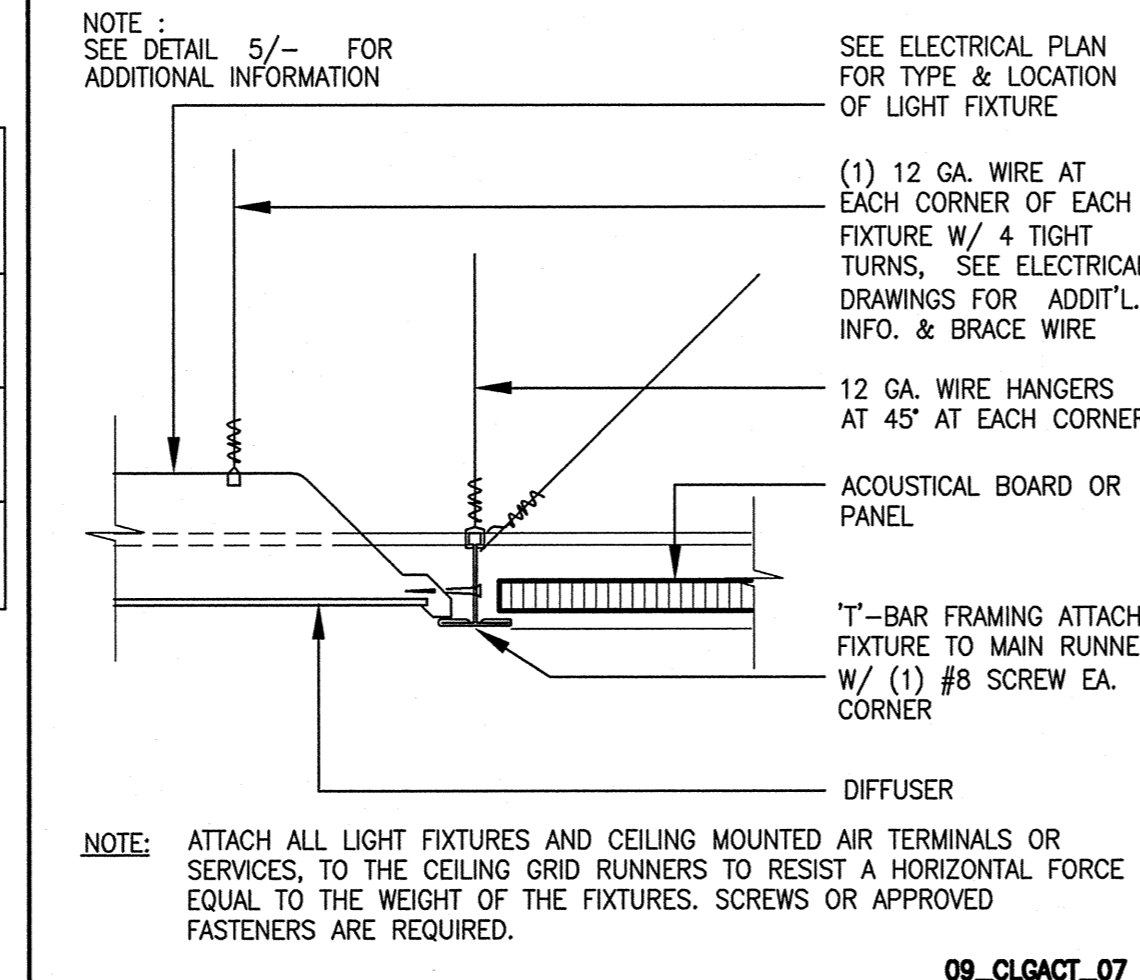
12 **COMPRESSION STRUT TABLE** 1/8" = 1'-0"



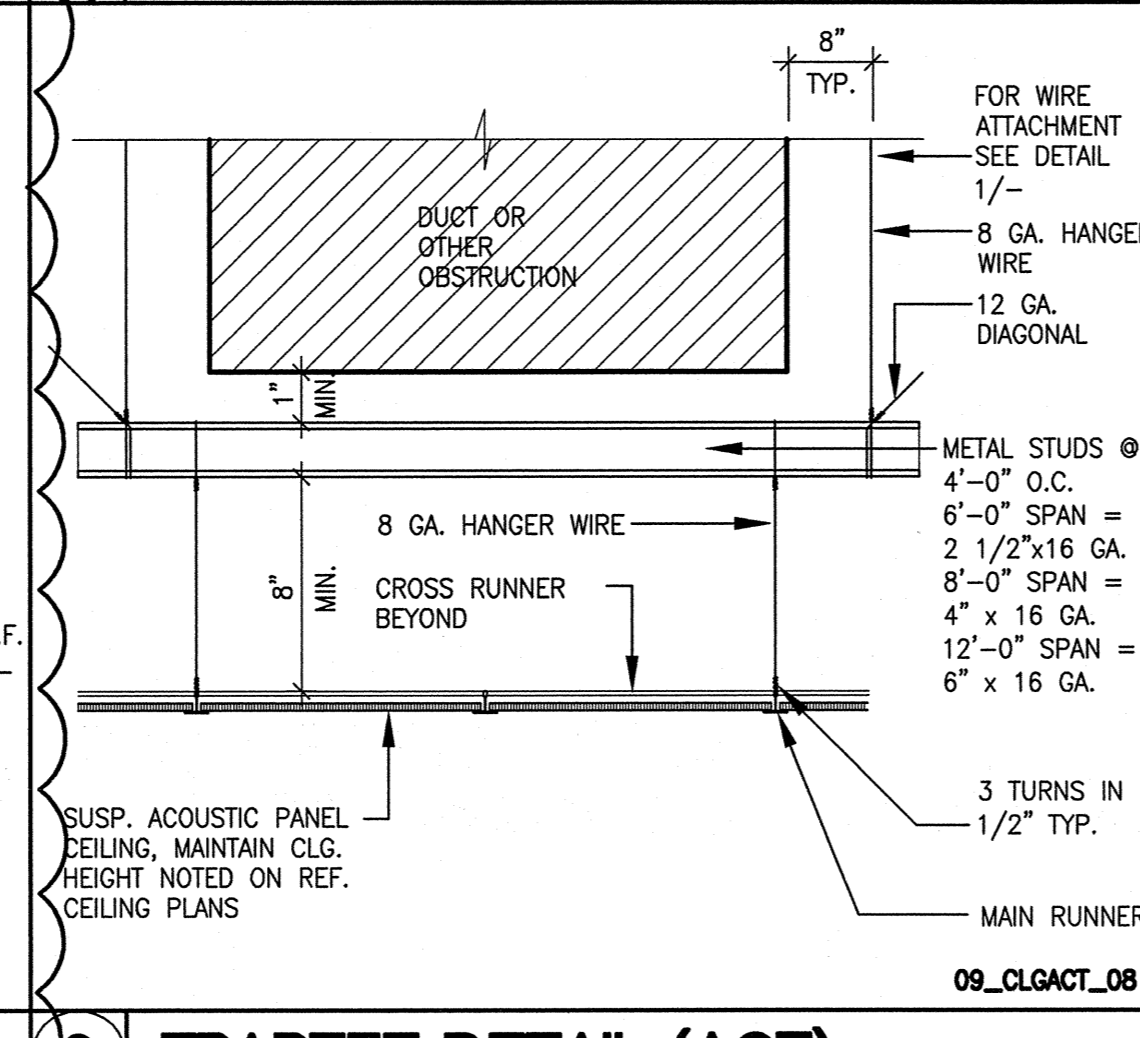
13 **PROJECTOR WALL MOUNT** 1'-1/2" = 1'-0"



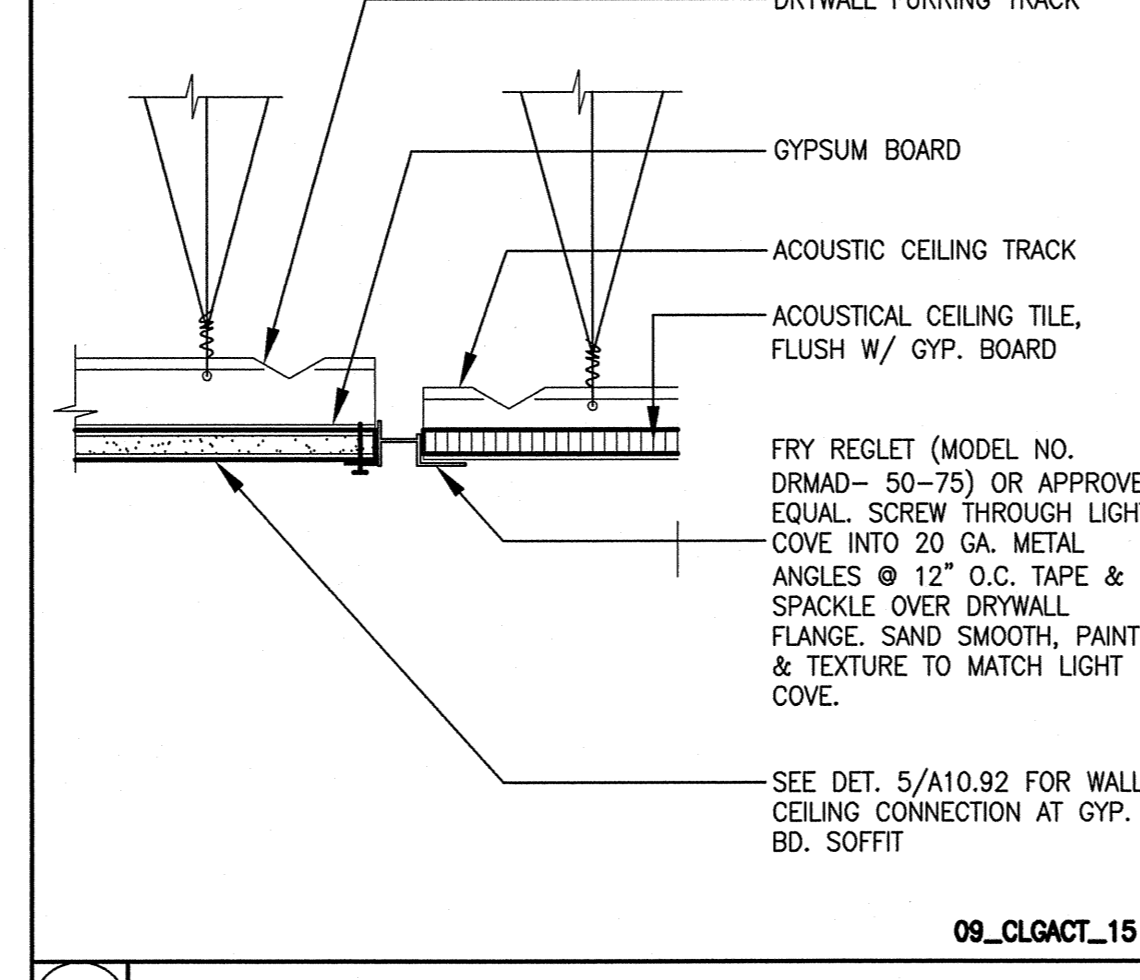
6 **CEILING WALL (FREE END)** 3" = 1'-0"



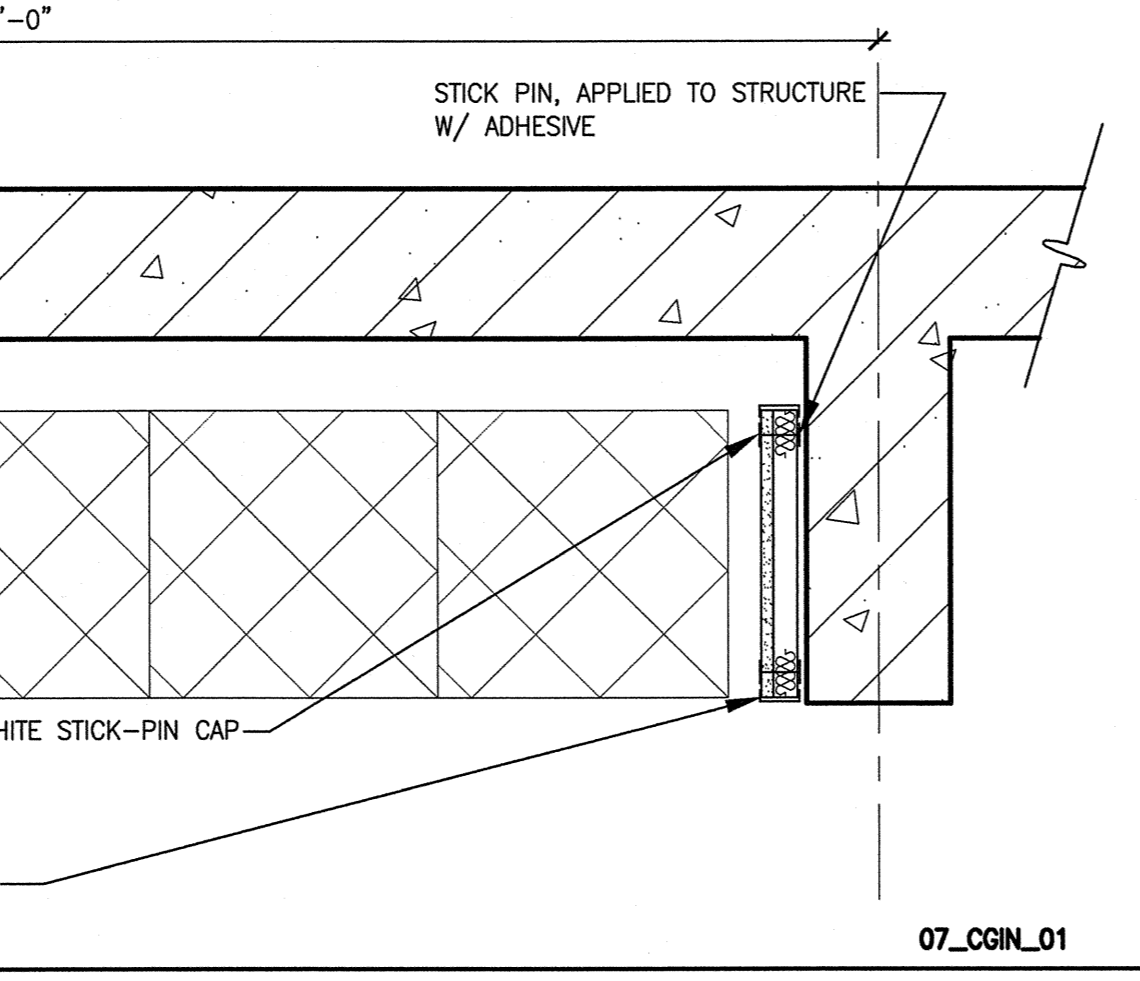
7 **FLUORESCENT FIXT. ACT** 3" = 1'-0"



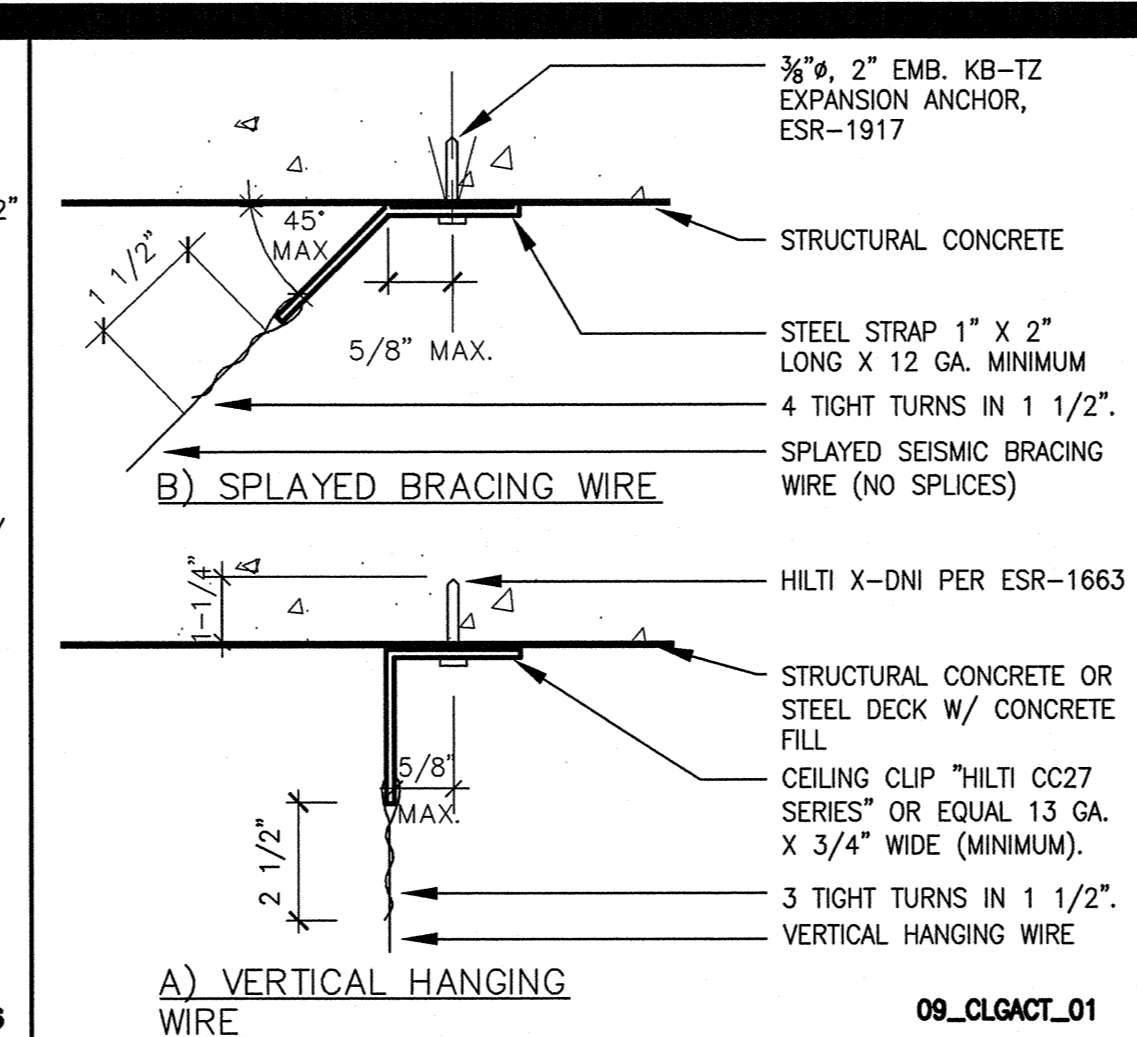
8 **TRAPEZE DETAIL (ACT)** N.T.S.



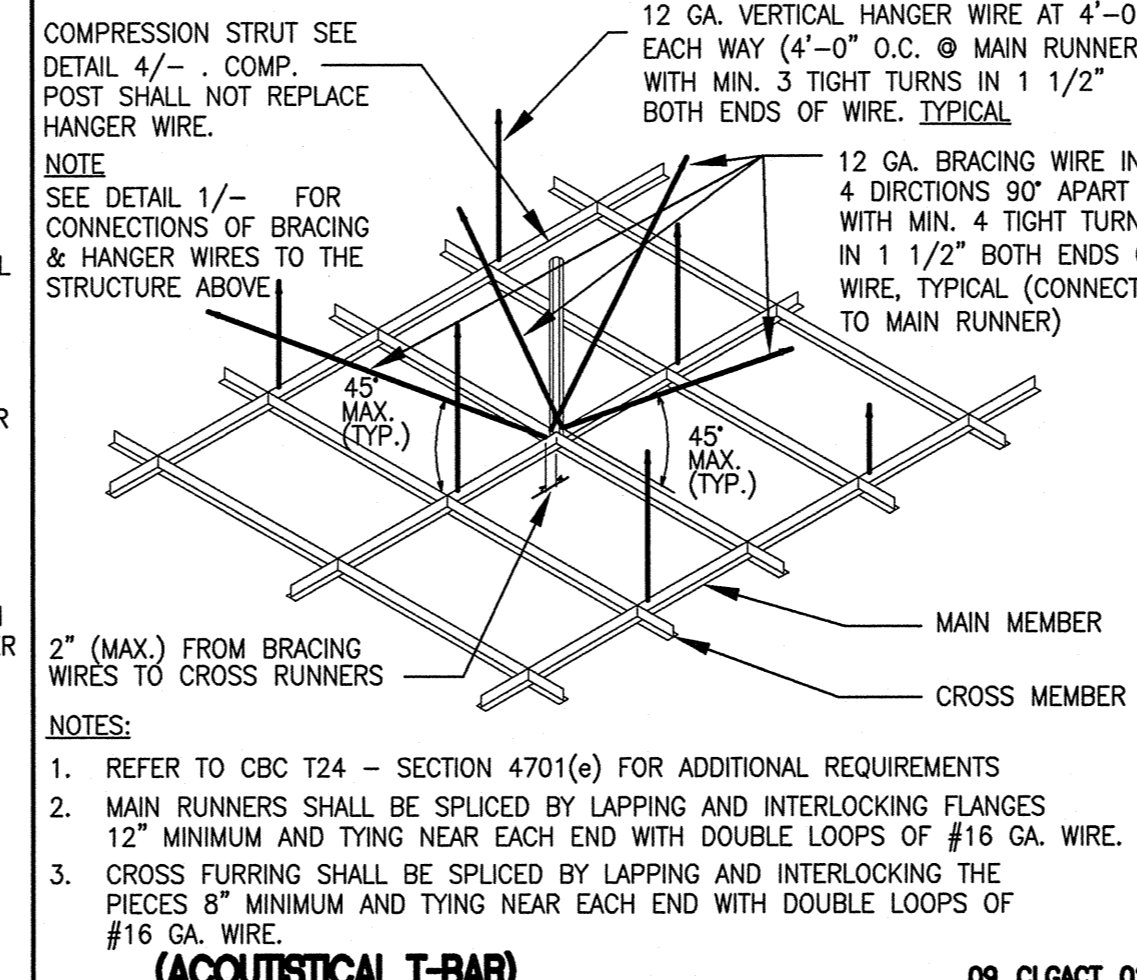
9 **DRYWALL SOFFIT** 3" = 1'-0"



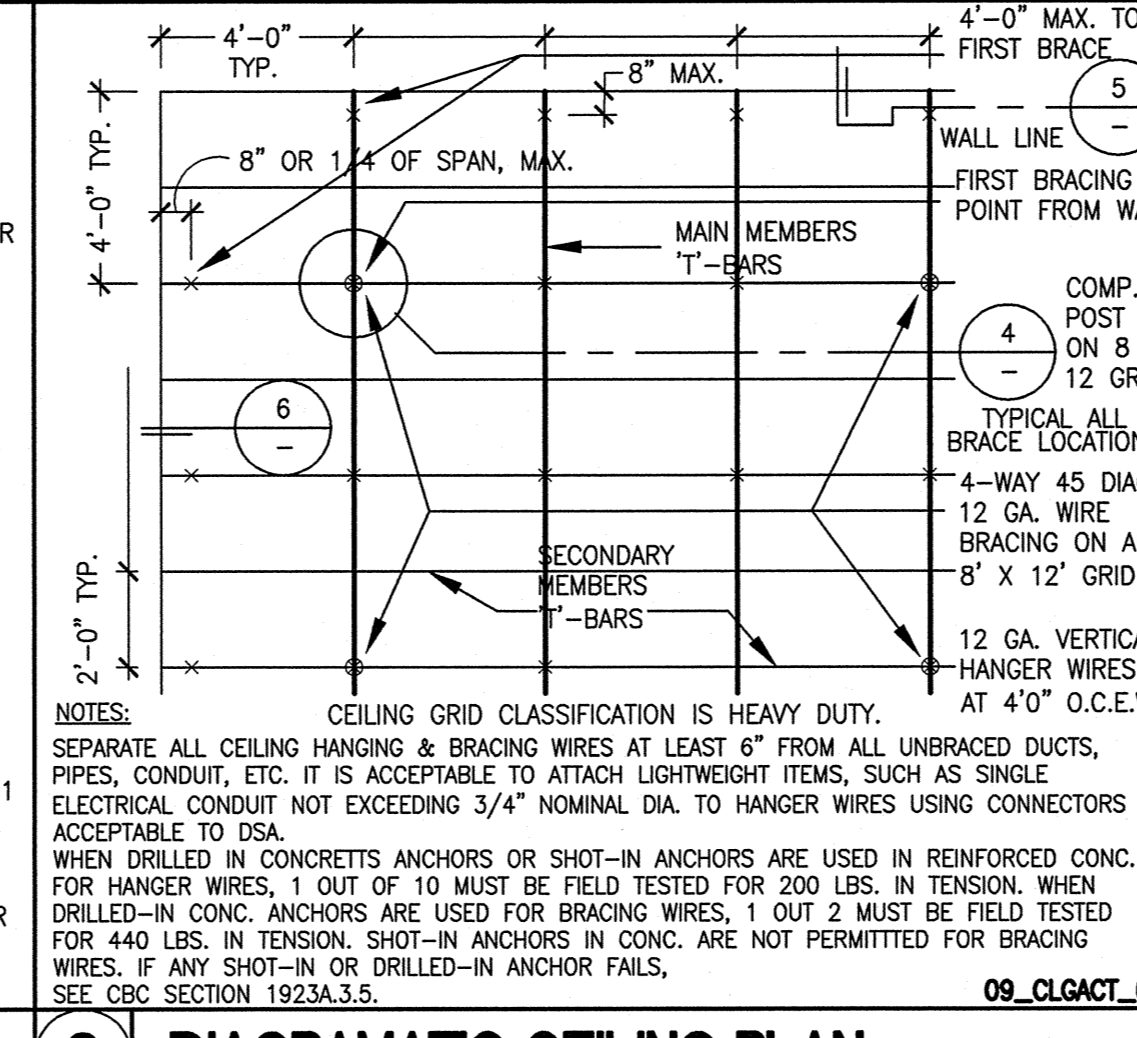
15 **ACOUSTIC PANELS AT COFFERED CEILING** 3/4" = 1'-0"



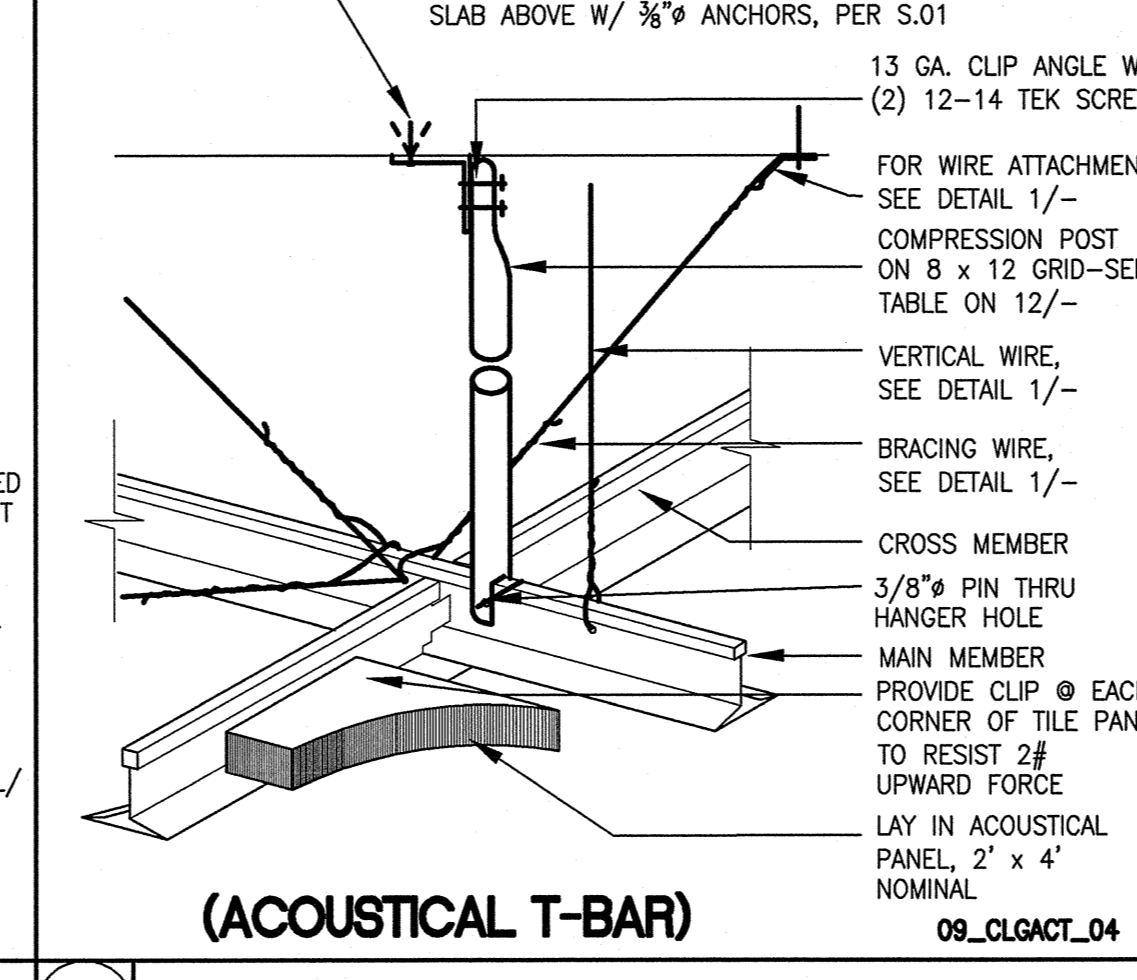
1 **WIRE ATTACHMENT** 3" = 1'-0"



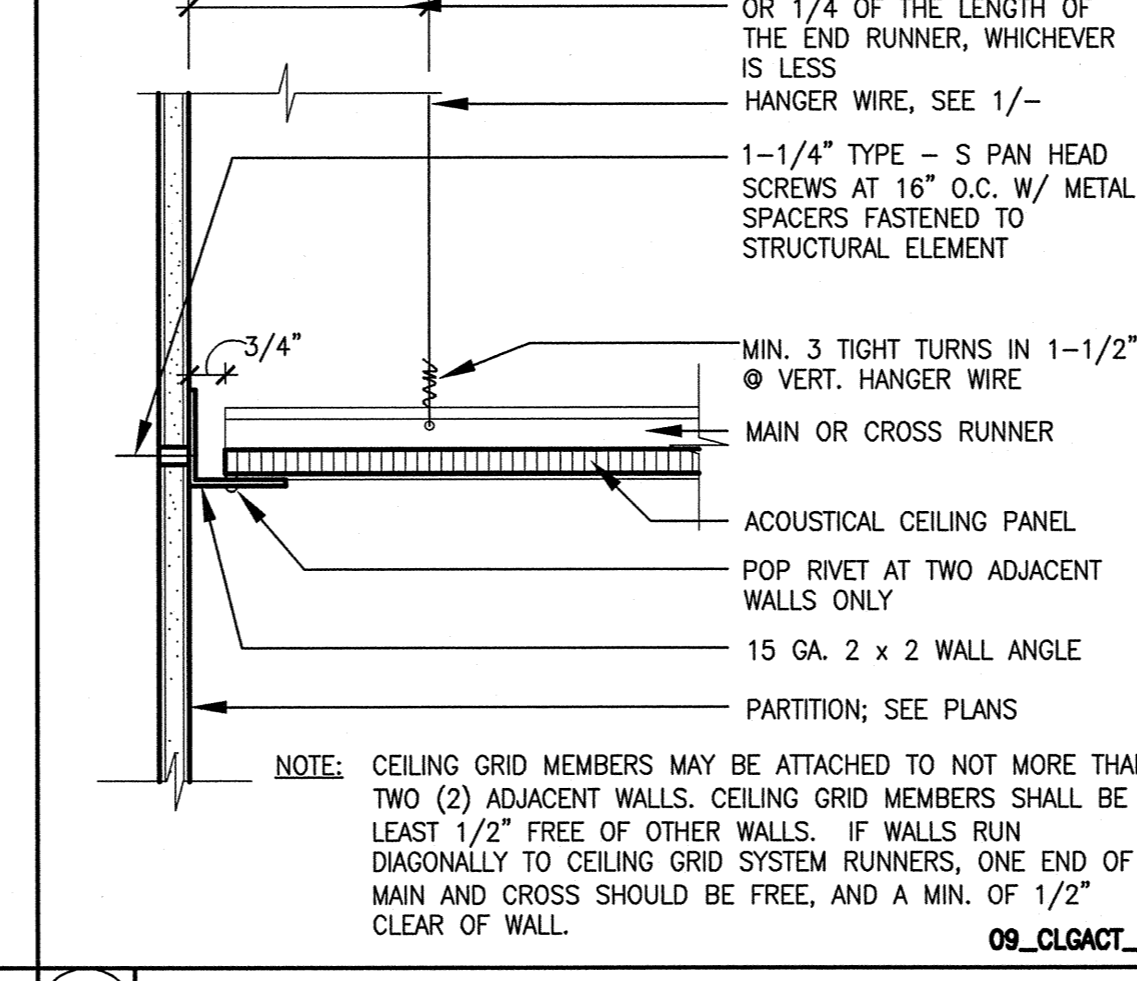
2 **DIAGRAMATIC ATTACHMENT** 3" = 1'-0"



3 **DIAGRAMATIC CEILING PLAN** 3" = 1'-0"



4 **COMPRESSION MEMBER** 3" = 1'-0"



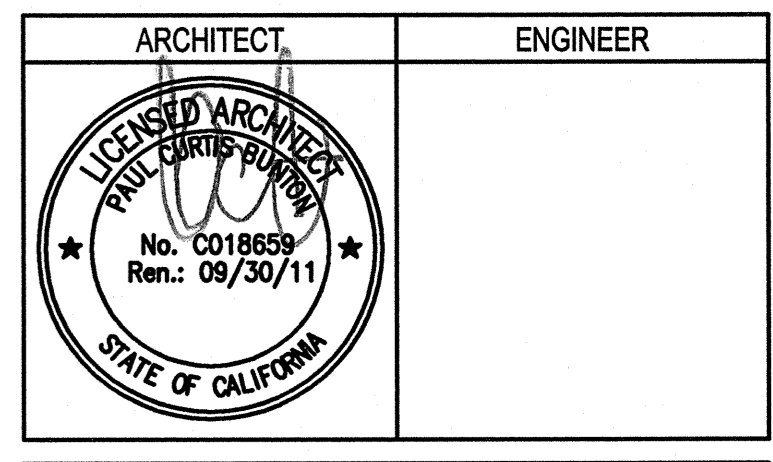
5 **CLG. FIXED WALL (ACT)** 3" = 1'-0"

GENERAL NOTES FOR MTL. SUSPENSION SYSTEMS FOR LAY IN CEILINGS

- 12 GA. (MIN.) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" X 4'-0" GRID SPACING ALONG MAIN RUNNERS. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA/SSS.
- PROVIDE 12 GA. HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN 8" FROM THE SUPPORT OR WITHIN 1/4 OF THE LENGTH OF THE END, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA.
- FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF TWO 12 GA. SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4'-0" X 4'-0" LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES ATTACHED TO EACH CORNER.
- CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2" INCH FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNER SHOULD BE FREE AND A MINIMUM OF 1/2" INCH CLEAR OF WALL.
- AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERSECTION BETWEEN RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED, WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
- PROVIDE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR 12 GA. SPLAYED BRACING WIRES ORIENTED 90° FROM EACH OTHER AND NOT MORE THAN 12'-0" X 12'-0" ON CENTER.
- PROVIDE BRACING WIRES AT LOCATIONS NOT MORE THAN 6'-0" FROM EACH PERIMETER WALL AND AT THE EDGE OF VERTICAL CEILING OFFSETS.
- THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45° FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT TO BE PERMITTED WITHOUT SPECIAL DSA/SSS APPROVAL.
- SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQUARE FEET OR LESS, SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE, DO NOT REQUIRE BRACING ASSEMBLIES WHEN ATTACHED TO TWO ADJACENT WALLS.
- FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN BRACING WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1'-1/2". HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
- NOTE: WIRE TURNS MADE BY MACHINE WHERE BOTH STRANDS HAVE BEEN DEFORMED OR BENT IN WRAPPING CAN BE 1'-1/2" REQUIREMENT, BUT THE NUMBER OF TURNS SHOULD BE MAINTAINED, AND BE AS TIGHT AS POSSIBLE.
- SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6" INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC. IT IS ACCEPTABLE TO ATTACH LIGHTWEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO DSA/SSS.
- HVAC DUCTWORK, ELECTRICAL DISTRIBUTION, TELEPHONE SERVICES, COMPUTER CABLE DISTRIBUTION, AND OTHER SERVICES NORMALLY FOUND IN A CEILING SPACE, SHALL BE INDEPENDENTLY SUPPORTED AND APPROPRIATELY BRACED TO ELIMINATE ANY LATERAL FORCE ON THE CEILING MEMBRANE OR BRACING ELEMENTS.
- WHEN DRILL-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 MUST BE FIELD TESTED FOR 440 LBS. OF TENSION. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY SHOT-IN OR DRILL-IN ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440 LBS. IN TENSION. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY SHOT-IN OR DRILL-IN ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440 LBS. IN TENSION. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY SHOT-IN OR DRILL-IN ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440 LBS. IN TENSION. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY SHOT-IN OR DRILL-IN ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440 LBS. IN TENSION.
- ATTACH ALL LIGHT FIXTURES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
- ALL RECESSED LIGHTING FIXTURES HAVING A NOMINAL END DIMENSION OF 24" OR GREATER, SHALL BE POSITIVELY ATTACHED TO THE CEILING GRID RUNNER(S) AT THE END OF THE FIXTURE WITH TWO #8 SELF TAPPING TEK SCREWS. EACH SCREW SHALL BE LOCATED WITHIN 3" OF THE SIDE OF THE FIXTURE AND ATTACHED THROUGH THE BULB OF THE CEILING GRID RUNNER(S). LIGHT FIXTURES HAVING LESS THAN A NOMINAL 24" END DIMENSION SHALL BE ATTACHED WITH ONE #8 SELF TAPPING TEK SCREW AT THE CENTER OF EACH END OF THE FIXTURE, ATTACHED TO THE BULB OF THE CEILING GRID RUNNER(S). ALL ATTACHMENTS SHALL BE CAPABLE OF LATERALLY SUPPORTING THE WEIGHT OF THE FIXTURE. ALL FIXTURES REGARDLESS OF WEIGHT OR SIZE SHALL HAVE INTERLOCKING CEILING GRID RUNNER(S) ON ALL 4 SIDES OF THE FIXTURE.
- CEILING-MOUNTED AIR TERMINALS OR SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION MAIN RUNNERS OR TO CROSS RUNNERS WITH THE SAME CARRYING CAPACITY AS THE MAIN RUNNER.
- AIR TERMINALS WITH A NOMINAL DIMENSION OF 24" OR LESS SHALL BE POSITIVELY ATTACHED TO THE CEILING GRID RUNNER(S) ON AT LEAST TWO OPPOSING SIDES WITH ONE #8 SELF TAPPING TEK SCREW ON EACH SIDE. EACH SCREW SHALL BE LOCATED IN THE CENTER OF THE AIR TERMINAL AND SHALL BE ATTACHED THROUGH THE BULB OF THE
- CEILING GRID RUNNER(S). AIR TERMINALS IN EXCESS OF 24" IN LENGTH SHALL BE ATTACHED WITH TWO #8 SELF TAPPING TEK SCREWS ON EACH END OF DIFFUSER ATTACHED TO THE BULB OF THE CEILING GRID RUNNER(S). ALL ATTACHMENTS SHALL BE CAPABLE OF LATERALLY SUPPORTING THE WEIGHT OF THE AIR TERMINAL. ALL AIR TERMINALS REGARDLESS OF WEIGHT OR SIZE SHALL HAVE INTERLOCKING CEILING GRID RUNNER(S) ON ALL 4 SIDES OF THE AIR TERMINAL.
- FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF TWO 12 GA. SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4'-0" X 4'-0" LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES ATTACHED TO EACH CORNER.
- TAUT 12 GA. WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED.
- THE 4 TAUT 12 GA. WIRES INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE MUST BE CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE UNIT.
- ALL FIXTURES AND AIR TERMINALS OR SERVICES SUPPORTED ON INTERMEDIATE DUTY GRID SYSTEMS MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 TAUT 12 GA. WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE.
- SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GA. WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE.
- PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 9 FEET OR LONGER.
- PROVIDE PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE FIXTURE. A BRACING ASSEMBLY, AS DESCRIBED IN NOTE 6 OF THESE SUSPENSION SYSTEM NOTES, SHALL BE REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT HORIZONTAL FORCES.
- METAL PANELS AND PANELS WEIGHING MORE THAN 1/2 PSF, OTHER THAN ACOUSTICAL TILE, ARE TO BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION RUNNERS.
- WHERE GYPSUM BOARD OR OTHER CEILING FINISHES ARE ATTACHED TO THE BUILDING FLOOR OR ROOF FRAMING, SPECIAL DETAILS WILL BE REQUIRED FOR THE VERTICAL HANGER WIRE AND LATERAL BRACING WIRE SUPPORT CONNECTIONS TO THE FRAMING.
- WHEN THERE IS REUSE OF EXISTING CEILING HANGER WIRES AND SPLAY WIRES, THE GAUGE AND SPACING OF THE WIRES MUST COMPLY WITH CURRENT APPLICABLE CODES. EXISTING CEILING HANGER WIRES MUST BE TESTED TO 200 LBS IN TENSION. ALL EXISTING SPLAYED BRACING WIRES MUST BE FIELD TESTED TO 440 LBS IN TENSION. IF A NEW WIRE IS TO BE SPLICED TO AN EXISTING WIRE, THE FOLLOWING IS REQUIRED:
 - A. THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL RESPONSIBLE CHARGE MUST SUBMIT TO DSA/SSS A DETAIL AND SPECIFICATION OF HOW THE SPLICE IS TO BE MADE.
 - B. ALL NEW WIRES, AFTER BEING SPLICED TO THE EXISTING WIRES, MUST BE FIELD TESTED AS STATED ABOVE.
 - C. ALL FIELD TESTS MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.
- CLASSIFICATION OF CEILING GRID IS HEAVY DUTY. COMPONENTS SHALL COMPLY WITH THE FOLLOWING SCHEDULE:

MANUFACTURER	MAIN RUNNER	CROSS RUNNER	DSA/SSS APPROV. NO.
ARMSTRONG	7301	7340(1)	PA-041 (1)
CHICAGO METALIC	200	1204(2)	PA-026 (2)
DONN CORPORATION	DX26	DX424(3)	PA-030 (3)
- FOOT NOTES:
 - (1) FOR 2 X 2 GRID USE 7324
 - (2) FOR 2 X 2 GRID USE 1226
 - (3) FOR 2 X 2 GRID USE DX216
- SUBSTITUTE MANUFACTURERS AND SYSTEMS MUST BE APPROVED FOR REVIEW AND APPROVAL BY THE DIVISION OF THE STATE ARCHITECT.
- ANCHORS FOR WALL ANGLES:
 - A. AT WOOD STUD WALL: 40 COMMON NAIL @ 16" O.C.
 - B. AT METAL STUD WALL: 1-1/8" TYPE "S" BUCLE HEAD DRYWALL SCREW AT 16" O.C.
 - C. AT MASONRY WALL: 1/4" DIA. X 1-1/2" LONG KWIK CON II ANCHOR SCREW @ 16" O.C. ICBO NO. 5259.

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REVISIONS	DATE
ADDENDUM NO. 1	09/18/09
ADDENDUM NO. 2	11/09/09
ADDENDUM NO. 3	12/04/09

DATE	DESCRIPTION
09/29/08	DSA PLAN CHECK
01/22/09	DSA BACK CHECK
09/18/09	BIDDING
	CONSTRUCTION

FILE NO. 41-C1
IDENTIFICATION STAMP
DW. OF THE STATE ARCHITECT
01-110074
DATE

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

SUSPENDED ACOUSTICAL CEILING DETAILS

Date: 08/29/08
Scale: AS NOTED
Project Number: 07013
Drawing Number: **A10.91**

PROJECT 2007-0731
CONTACT Valeria Torres

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ARCHITECT	ENGINEER

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REVISION	DATE
ADDENDUM NO. 1	09/18/08
ADDENDUM NO. 2	11/06/09
ADDENDUM NO. 3	12/04/09

DRAWING STATUS	DATE
DESIGN CHECK	08/29/08
DESIGN BACK CHECK	01/22/09
BIDDING (BID #0558)	09/18/09
CONSTRUCTION	

FILE NO. 41-C1

IDENTIFICATION STAMP
DW. OF THE STATE ARCHITECT

01- 110074

AC _____ FLS _____ SS _____

DATE _____

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

SITE PLAN
ELECTRICAL

Date	08/29/08	Drawing Number	E1.1
Scale	AS NOTED	Project Number	07013

GENERAL SHEET NOTES

- A. COORDINATE ALL SITE WORK WITH DISTRICT.
- B. REFER TO SHEET E5.1 FOR COPPER FEEDER SCHEDULE.

SHEET KEYNOTES

- ① EXISTING POWER & SIGNAL SYSTEM FEEDERS TO BE REMOVED AND REROUTED TO MAKE WAY FOR NEW ELEVATOR CONSTRUCTION. FIELD VERIFY EXACT SCOPE OF WORK AND COORDINATE ALL FINDINGS WITH DISTRICT.
- ② INTERCEPT AND EXTEND EXISTING ELECTRICAL FEEDER TO BUILDING 2. PROVIDE 2" C. WITH (4)#1/0 PLUS GROUND WIRE. VERIFY EXACT FEEDER SIZE PRIOR TO INSTALLATION OF WORK. RECONNECT FEEDER COMPLETE TO PLACE BACK INTO SERVICE.
- ③ INTERCEPT AND EXTEND EXISTING SIGNAL CONDUIT AND CABLING. PROVIDE THE FOLLOWING CONDUITS:
 (1)2" C. TELEPHONE
 (1)1-1/2" C. FIRE ALARM
 (1)1-1/2" C. CLOCK SYSTEM
 (1)1" C. SPARE

VERIFY EXISTING CONDUIT SIZES PRIOR TO INSTALLATION OF WORK. NEW CONDUITS AND CABLING TO MATCH EXISTING.

- ④ INTERCEPT AND EXTEND EXISTING CONDUIT AND CABLING FOR TV. PROVIDE THE FOLLOWING CONDUITS:
 (1)4" C. TV

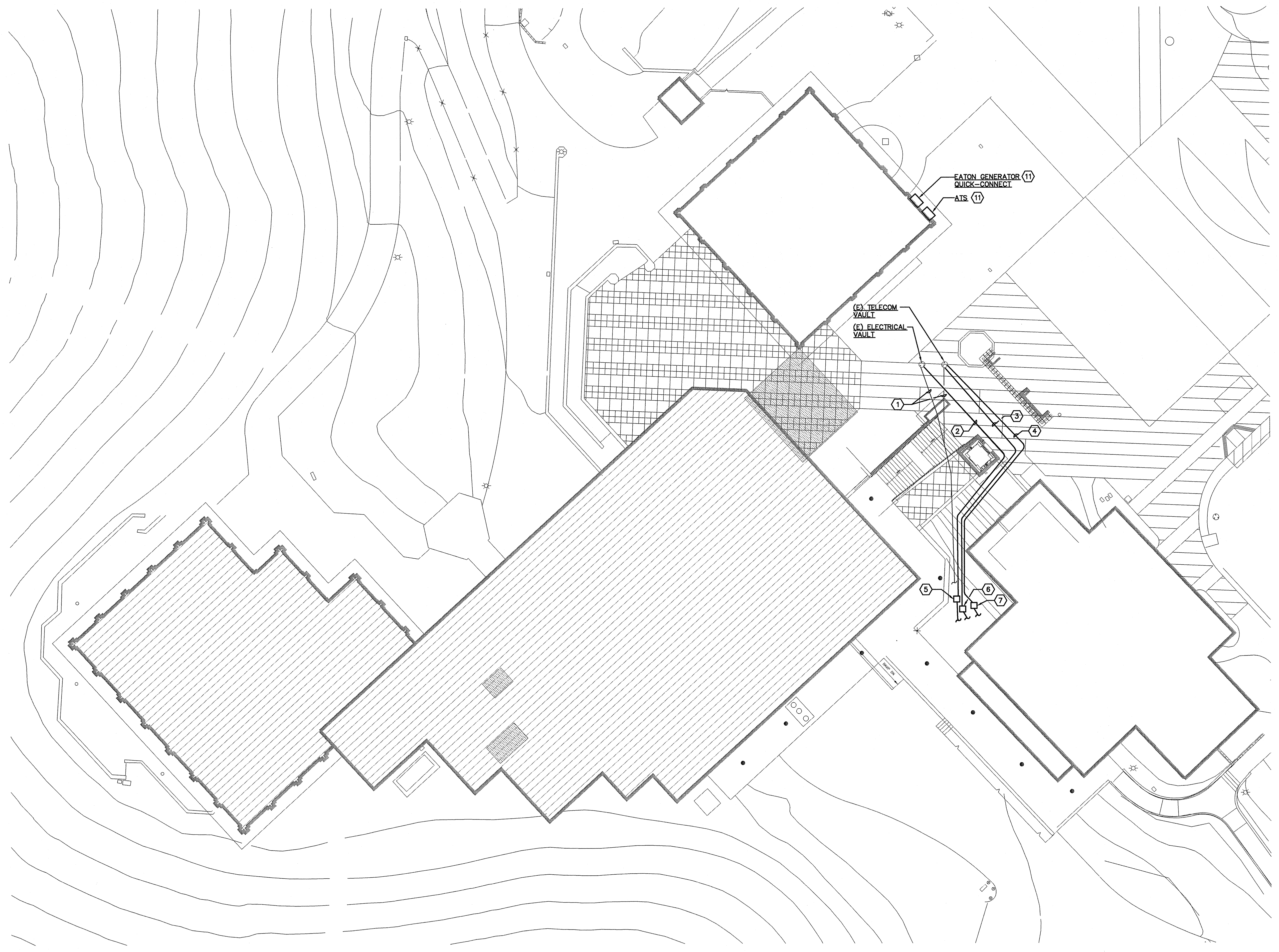
VERIFY EXISTING CONDUIT SIZE PRIOR TO INSTALLATION OF WORK. NEW CONDUIT AND CABLING TO MATCH EXISTING.

- ⑤ PROVIDE CHRISTY BOX N16 WITH EXTENSIONS AND BASE FOR ELECTRICAL WORK. PROVIDE CONCRETE COVER WITH "ELECTRICAL" INSCRIPTION.
- ⑥ PROVIDE CHRISTY BOX N36 WITH EXTENSIONS AND BASE FOR SIGNAL SYSTEMS WORK. PROVIDE CONCRETE COVER WITH "SIGNAL" INSCRIPTION.
- ⑦ PROVIDE CHRISTY BOX N40 WITH EXTENSIONS AND BASE FOR TV WORK. PROVIDE CONCRETE COVER WITH "SIGNAL" INSCRIPTION.

- ⑧ INTERCEPT EXISTING FEEDER TO DISTRIBUTION PANEL "BDP" IN BUILDING 8 AND CONNECT TO NEW AUTOMATIC TRANSFER SWITCH.
- ⑨ PROVIDE NEW AUTOMATIC TRANSFER SWITCH FOR BACK UP POWER TO BUILDING 8 VIA PORTABLE GENERATOR. VERIFY EXACT LOAD REQUIREMENTS WITH DISTRICT PRIOR TO PROCUREMENT AND INSTALLATION OF EQUIPMENT. (MANUFACTURER: ASCO OR APPROVED.)

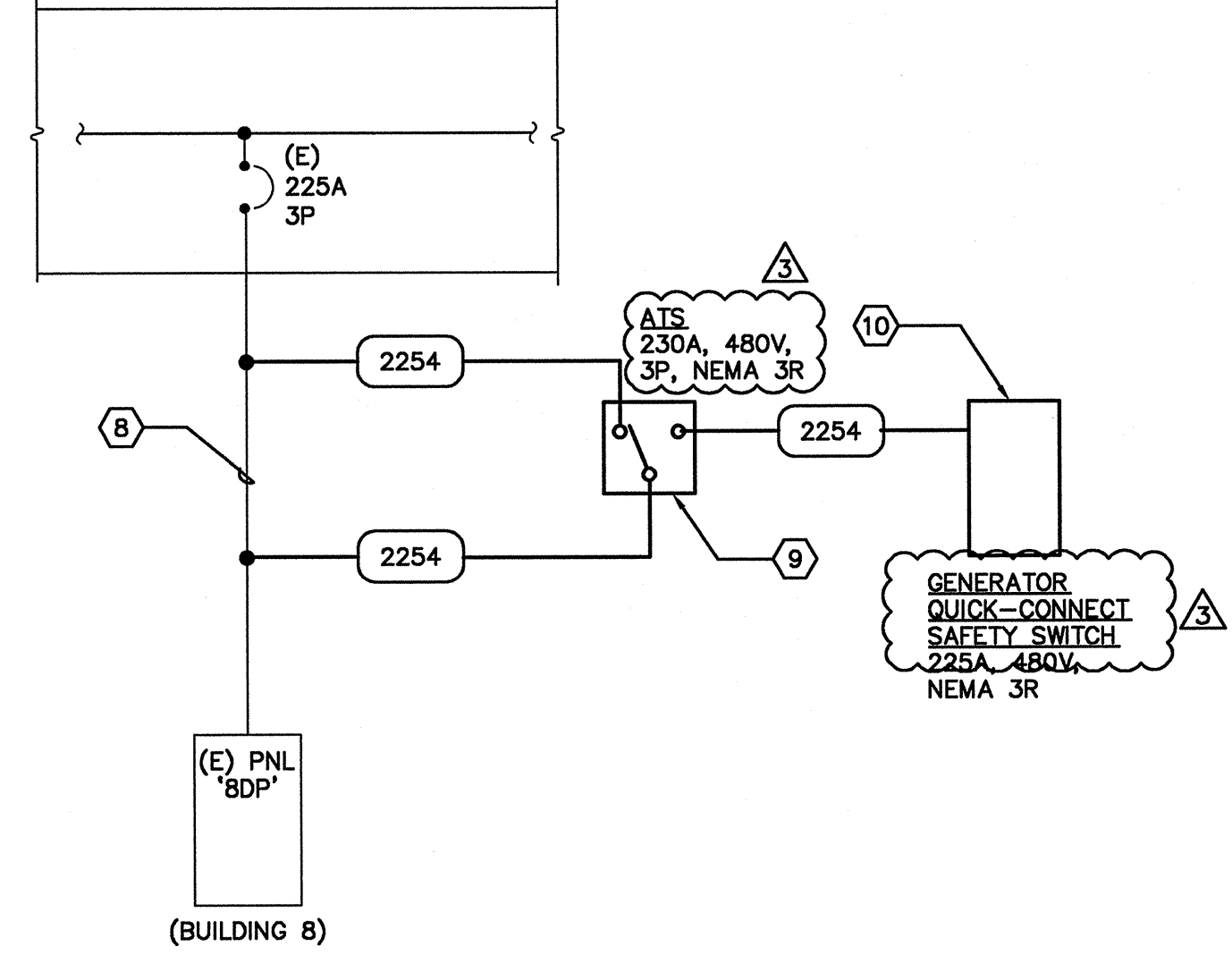
- ⑩ PROVIDE NEW GENERATOR QUICK-CONNECT SAFETY SWITCH FOR CONNECTION TO PORTABLE GENERATOR. VERIFY EXACT LOAD REQUIREMENTS WITH DISTRICT PRIOR TO PROCUREMENT AND INSTALLATION OF EQUIPMENT. (MANUFACTURER: EATON OR APPROVED.)

- ⑪ REFER TO PARTIAL SINGLE LINE DIAGRAM, THIS SHEET, FOR ADDITIONAL INFORMATION.

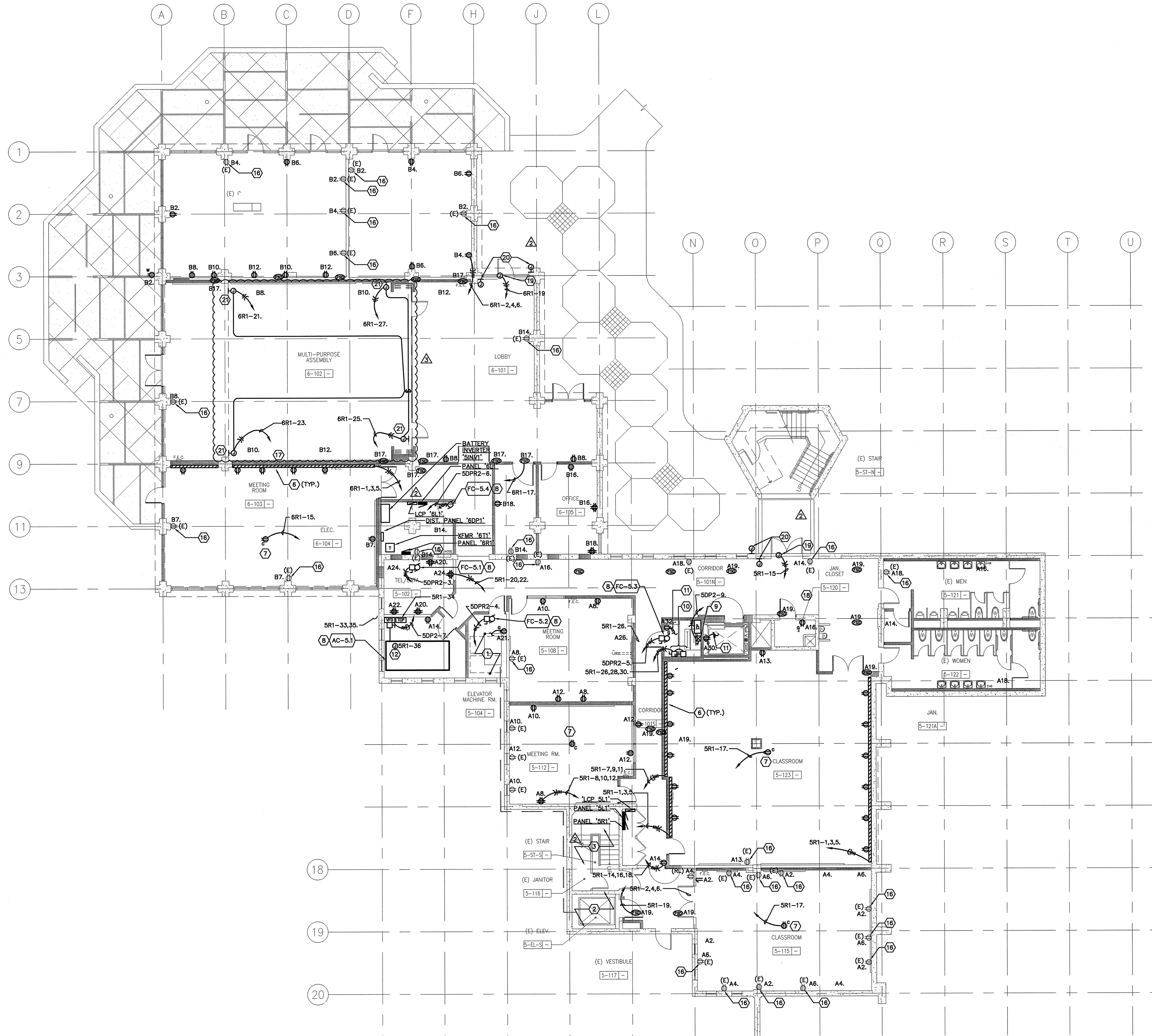


1 SITE PLAN - ELECTRICAL
SCALE: 1/16"=1'-0"

(E) MAIN SWITCHBOARD "5MSB"
1200A, 480/277 VOLT, 3 PHASE, 4 WIRE, 65KAIC
(BUILDING 5)



2 PARTIAL SINGLE LINE DIAGRAM - ELECTRICAL
SCALE: 1/16"=1'-0"



1 FIRST FLOOR PLAN - POWER
 SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES, VOICE/DATA OUTLETS AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
- B. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH MECHANICAL DRAWINGS PRIOR TO INSTALLATION.
- C. CIRCUITS WITH PREFIX 'A' DENOTES CONNECTION TO PANEL 'SR1'.
- D. CIRCUITS WITH PREFIX 'B' DENOTES CONNECTION TO PANEL 'BR1'.

SHEET KEYNOTES

- 1 RECONNECT EXISTING ELEVATOR AND ASSOCIATED CONTROLLER TO NEW DISTRIBUTION SYSTEM TO PLACE BACK INTO SERVICE. REFER TO 'SINGLE LINE DIAGRAM', SHEET ES.1 FOR MORE INFORMATION.
- 2 RECONNECT EXISTING ELEVATOR PIT LIGHTING AND RECEPTACLE TO PANEL 'SR1'.
- 3 NO WORK WITHIN THIS AREA.
- 4 INTERCEPT AND EXTEND EXISTING CIRCUIT AND CONNECT COMPLETE TO PANEL 'SR1' TO PLACE INTO SERVICE.
- 5 INTERCEPT AND EXTEND EXISTING CIRCUIT AND CONNECT COMPLETE TO PANEL 'BR1' TO PLACE INTO SERVICE.
- 6 PROVIDE SURFACE RACEWAY AND RECEPTACLES PER DISTRICT SPACING REQUIREMENTS.
- 7 FOR CEILING MOUNT PROJECTOR.
- 8 REFER TO 'MECHANICAL EQUIPMENT CONNECTION SCHEDULE', SHEET ES.1 FOR MORE INFORMATION.
- 9 PROVIDE FEEDER AND ELEVATOR FUSED DISCONNECT SIZE PER ELEVATOR MANUFACTURER REQUIREMENTS. REFER TO 'SINGLE LINE DIAGRAM', SHEET ES.1 FOR MORE INFORMATION.
- 10 PROVIDE (2) 20A DISCONNECT FOR CONNECTION TO ELEVATOR CAB SERVING LIGHTING AND COMMON LOADS.
- 11 CONNECT RECEPTACLE TO LIGHTING CIRCUIT SHOWN ON SHEET E2.1.
- 12 PROVIDE JUNCTION BOX FOR 120V POWER TO DDC CONTROLLER.
- 13 FOR SMART BOARD. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO INSTALLATION.
- 14 COORDINATE REQUIREMENTS AND ROUGH-IN HEIGHT WITH TECHNOLOGY DRAWINGS.
- 15 PROVIDE L5-30R RECEPTACLE.
- 16 INTERCEPT AND EXTEND NEW CIRCUIT FROM PANEL AS SHOWN TO EXISTING RECEPTACLE OUTLET AND RECONNECT COMPLETE AS REQUIRED TO PLACE BACK INTO SERVICE.
- 17 FOR PROJECTOR.
- 18 FOR SECURITY CAMERA.
- 19 JUNCTION BOX FOR 120V POWER TO DOOR OPERATOR. PROVIDE INTERFACE WITH DOOR ACTUATOR. VERIFY EXACT REQUIREMENTS WITH DOOR HARDWARE MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE ALL WIRING AND RACEWAY AND OTHER APPURTENANCES FOR A FULLY OPERATIONAL SYSTEM.
- 20 JUNCTION BOX FOR INSTALLATION OF DOOR ACTUATOR. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 21 JUNCTION BOX FOR 120V POWER TO MOTORIZED SHADE AT CLERESTORY. VERIFY EXACT LOCATION OF MOTOR WITH SHADE MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE ALL REQUIRED APPURTENANCES FOR A COMPLETE OPERATIONAL SYSTEM.



architecture
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Ren. 09/30/09

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Ren. 09/30/09

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REVISION NO.	REMARKS	DATE
1	ADDENDUM NO. 1	09/18/09
2	ADDENDUM NO. 2	11/06/09
3	ADDENDUM NO. 3	12/04/09
4		
5		
6		
7		
8		
9		
10		

DRAWING STATUS	DATE
DESIGN CHECK	08/29/09
DESIGN BACK CHECK	01/22/09
BIDDING (END 8/20/09)	09/18/09
CONSTRUCTION	

FILE NO. 41-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

01- 110074

AC FL SS

DATE

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

FIRST FLOOR PLAN
- POWER

Date 08/29/08 Drawing Number
Scale AS NOTED **E3.1**
Project Number 07013

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PANEL '5L1'		277/480V, 3 Ph., 4 W.		Surface Mounted, Lighting & Appliance Branch Panelboard		2007-0731 CAÑADA BLDG 5/6	
Ckt. No.	Description / Location	Load (VA) / Pole	C.B. A/Pole	Note	Ph.	C.B. A/Pole	Load (VA) / Pole
1	LTG - CORRIDOR	434 L	20/1	A	20/1	744 L	LTG - MEETING ROOMS
2	LTG - CLASSROOMS	744 L	20/1	B	20/1	248 L	LTG - UTILITY ROOMS
3	LTG - CLASSROOMS	1,062 L	20/1	C	20/1	808 L	LTG - BATHROOMS, JANITOR
4	BATTERY INVERTER 'SINNY'	2,000 L	25/1	A	20/1		SPARE
5	SPARE	20/1	B	20/1			SPARE
6	SPARE	20/1	C	20/1			SPARE
7	SPARE	20/1	A	20/1			SPARE
8	SPARE	20/1	B	20/1			SPARE
9	SPARE	20/1	C	20/1			SPARE
10	SPARE	20/1	A	20/1			SPARE
11	SPARE	20/1	B	20/1			SPARE
12	SPARE	20/1	C	20/1			SPARE
13	SPARE	20/1	A	20/1			SPARE
14	SPARE	20/1	B	20/1			SPARE
15	SPARE	20/1	C	20/1			SPARE
16	SPARE	20/1	A	20/1			SPARE
17	SPARE	20/1	B	20/1			SPARE
18	SPARE	20/1	C	20/1			SPARE
19	SPARE	20/1	A	20/1			SPARE
20	SPARE	20/1	B	20/1			SPARE
21	SPARE	20/1	C	20/1			SPARE
22	SPARE	20/1	A	20/1			SPARE
23	SPARE	20/1	B	20/1			SPARE
24	SPARE	20/1	C	20/1			SPARE
25	SPARE	20/1	A	20/1			SPARE
26	SPARE	20/1	B	20/1			SPARE
27	SPARE	20/1	C	20/1			SPARE
28	SPARE	20/1	A	20/1			SPARE
29	SPARE	20/1	B	20/1			SPARE
30	SPARE	20/1	C	20/1			SPARE
31	SPARE	20/1	A	20/1			SPARE
32	SPARE	20/1	B	20/1			SPARE
33	SPARE	20/1	C	20/1			SPARE
34	SPARE	20/1	A	20/1			SPARE
35	SPARE	20/1	B	20/1			SPARE
36	SPARE	20/1	C	20/1			SPARE
37	SPARE	20/1	A	20/1			SPARE
38	SPARE	20/1	B	20/1			SPARE
39	SPARE	20/1	C	20/1			SPARE
40	SPARE	20/1	A	20/1			SPARE
41	SPARE	20/1	B	20/1			SPARE
42	SPARE	20/1	C	20/1			SPARE
Total Connected Load: Ph. A		3,178 VA	11Amps	Panel Connected Load:		6.0KVA	7.3Amps
Total Connected Load: Ph. B		992VA	4Amps	Sub-Fed Connected Load:		0.0KVA	0.0Amps
Total Connected Load: Ph. C		1,670 VA	7Amps	Total Demand Load:		7.6KVA	9.1Amps
AIC RATING: 22KAIC							

PANEL '5R1'		120/208V, 3 Ph., 4 W.		Surface Mounted, Lighting & Appliance Branch Panelboard		2007-0731 CAÑADA BLDG 5/6	
Ckt. No.	Description / Location	Load (VA) / Pole	C.B. A/Pole	Note	Ph.	C.B. A/Pole	Load (VA) / Pole
1	R - #5-123 RACEWAY	800 R	20/1	A	20/1	1,080 R	R - #5-115
2	R - #5-123 RACEWAY	800 R	20/1	B	20/1	1,080 R	R - #5-115
3	R - #5-123 RACEWAY	800 R	20/1	C	20/1	900 R	R - #5-115
4	R - #5-123 RACEWAY	666 R	20/1	A	20/1	900 R	R - #5-112, 5-108
5	R - #5-123 RACEWAY	666 R	20/1	B	20/1	540 R	R - #5-112, 5-108
6	R - #5-123 RACEWAY	666 R	20/1	C	20/1	900 R	R - #5-112, 5-108
7	R - #5-123 RACEWAY	360 R	20/1	A	20/1	1,220 R	R - #5-101S, 5-101N, 5-121
8	R - #5-123 RACEWAY	500 G	20/1	B	20/1	720 R	R - #5-101S, 5-101N, 5-121
9	R - #5-123 RACEWAY	500 G	20/1	C	20/1	720 R	R - #5-101N, 5-121, 5-122
10	FIRE SMOKE DAMPERS	500 G	20/1	A	20/1	500 R	R - #5-102
11	ELEV. MACHINE ROOM #5-104	484 G	20/1	B	20/1	500 R	R - #5-102
12	ELEV. CAB LTG. #5-EL-S	500 G	20/1	C	20/1	800 R	R - #5-102
13	ELEV. CAB LTG. #5-EL-S	500 G	20/1	A	20/1	500 R	R - SMART BOARD 35-108, PROJ. 5-
14	ELEV. CAB PWR #5-EL-S	500 G	20/1	B	20/1	360 R	R - SMART BOARD 35-108, PROJ. 5-
15	ELEV. CAB PWR #5-EL-S	500 G	20/1	C	20/1	360 R	R - SMART BOARD 35-108, PROJ. 5-
16	ACAMS	180 R	20/1	A	20/1	50 R	R - ELEV. PIT LTG PWR #5-EL-N
17	ACAMS	180 R	20/1	B	20/1	50 R	R - ELEV. PIT LTG PWR #5-EL-N
18	ACAMS	180 R	20/1	C	20/1	50 R	R - ELEV. PIT LTG PWR #5-EL-N
19	UPS #5-102	500 R	30/1	B	20/1	500 G	ICP
20	UPS #5-102	900 R	20/1	C	20/1	500 G	DDC
21	SPARE	20/1	A	20/1			SPARE
22	SPARE	20/1	B	20/1			SPARE
23	SPARE	20/1	C	20/1			SPARE
24	SPARE	20/1	A	20/1			SPARE
25	SPARE	20/1	B	20/1			SPARE
26	SPARE	20/1	C	20/1			SPARE
27	SPARE	20/1	A	20/1			SPARE
28	SPARE	20/1	B	20/1			SPARE
29	SPARE	20/1	C	20/1			SPARE
30	SPARE	20/1	A	20/1			SPARE
31	SPARE	20/1	B	20/1			SPARE
32	SPARE	20/1	C	20/1			SPARE
33	SPARE	20/1	A	20/1			SPARE
34	SPARE	20/1	B	20/1			SPARE
35	SPARE	20/1	C	20/1			SPARE
36	SPARE	20/1	A	20/1			SPARE
37	SPARE	20/1	B	20/1			SPARE
38	SPARE	20/1	C	20/1			SPARE
39	SPARE	20/1	A	20/1			SPARE
40	SPARE	20/1	B	20/1			SPARE
41	SPARE	20/1	C	20/1			SPARE
42	SPARE	20/1	A	20/1			SPARE
Total Connected Load: Ph. A		7,548 VA	63Amps	Panel Connected Load:		21.4KVA	59.5Amps
Total Connected Load: Ph. B		6,950 VA	58Amps	Sub-Fed Connected Load:		0.0KVA	0.0Amps
Total Connected Load: Ph. C		6,916 VA	58Amps	Total Demand Load:		17.9KVA	49.6Amps
AIC RATING: 10KAIC							

PANEL '6R1'		120/208V, 3 Ph., 4 W.		Surface Mounted, Lighting & Appliance Branch Panelboard		2007-0731 CAÑADA BLDG 5/6	
Ckt. No.	Description / Location	Load (VA) / Pole	C.B. A/Pole	Note	Ph.	C.B. A/Pole	Load (VA) / Pole
1	R - #6-103 RACEWAY	432 R	20/1	A	20/1	900 R	R - #6-111, 6-112, EXTERIOR
2	R - #6-103 RACEWAY	432 R	20/1	B	20/1	720 R	R - #6-111, 6-112
3	R - #6-103 RACEWAY	432 R	20/1	C	20/1	720 R	R - #6-111, 6-112
4	R - #6-103	540 R	20/1	A	20/1	720 R	R - #6-102, CAMERA
5	SPARE	20/1	B	20/1		720 R	R - #6-102
6	SPARE	20/1	C	20/1		720 R	R - #6-102
7	SPARE	20/1	A	20/1		720 R	R - #6-101, 6-104, 6-105A, CAMERA
8	SPARE	20/1	B	20/1		540 R	R - #6-101, 6-105
9	SPARE	20/1	C	20/1		540 R	R - #6-105, 6-105A
10	FIRE SMOKE DAMPERS	500 G	20/1	A	20/1	180 R	ROOF
11	MOTORIZED SHADE	1,000 G	20/1	B	20/1		SPARE
12	MOTORIZED SHADE	1,000 G	20/1	C	20/1		SPARE
13	MOTORIZED SHADE	1,000 G	20/1	A	20/1		SPARE
14	MOTORIZED SHADE	1,000 G	20/1	B	20/1		SPARE
15	MOTORIZED SHADE	1,000 G	20/1	C	20/1		SPARE
16	MOTORIZED SHADE	1,000 G	20/1	A	20/1		SPARE
17	MOTORIZED SHADE	1,000 G	20/1	B	20/1		SPARE
18	MOTORIZED SHADE	1,000 G	20/1	C	20/1		SPARE
19	SPARE	20/1	A	20/1			SPARE
20	SPARE	20/1	B	20/1			SPARE
21	SPARE	20/1	C	20/1			SPARE
22	SPARE	20/1	A	20/1			SPARE
23	SPARE	20/1	B	20/1			SPARE
24	SPARE	20/1	C	20/1			SPARE
25	SPARE	20/1	A	20/1			SPARE
26	SPARE	20/1	B	20/1			SPARE
27	SPARE	20/1	C	20/1			SPARE
28	SPARE	20/1	A	20/1			SPARE
29	SPARE	20/1	B	20/1			SPARE
30	SPARE	20/1	C	20/1			SPARE
31	SPARE	20/1	A	20/1			SPARE
32	SPARE	20/1	B	20/1			SPARE
33	SPARE	20/1	C	20/1			SPARE
34	SPARE	20/1	A	20/1			SPARE
35	SPARE	20/1	B	20/1			SPARE
36	SPARE	20/1	C	20/1			SPARE
37	SPARE	20/1	A	20/1			SPARE
38	SPARE	20/1	B	20/1			SPARE
39	SPARE	20/1	C	20/1			SPARE
40	SPARE	20/1	A	20/1			SPARE
41	SPARE	20/1	B	20/1			SPARE
42	SPARE	20/1	C	20/1			SPARE
Total Connected Load: Ph. A		4,992 VA	42Amps	Panel Connected Load:		10.1KVA	28.1Amps
Total Connected Load: Ph. B		5,212 VA	43Amps	Sub-Fed Connected Load:		0.0KVA	0.0Amps
Total Connected Load: Ph. C		3,912 VA	33Amps	Total Demand Load:		10.1KVA	28.1Amps
AIC RATING: 10KAIC							

PANEL '5L2'		277/480V, 3 Ph., 4 W.		Surface Mounted, Lighting & Appliance Branch Panelboard		2007-0731 CAÑADA BLDG 5/6	
Ckt. No.	Description / Location	Load (VA) / Pole	C.B. A/Pole	Note	Ph.	C.B. A/Pole	Load (VA) / Pole
1	LTG - CORRIDOR, MECH. SEMINAR RM	2,020 L	20/1	A	25/1	2,000 L	BATTERY INVERTER 'SINNY'
2	LTG - #5-227, 5-223, 5-221	2,604 L	20/1	B	20/1		SPARE
3	LTG - OFFICES, MAIL ROOM	2,948 L	20/1	C	20/1		SPARE
4	SPARE	20/1	A	20/1			SPARE
5	SPARE	20/1	B	20/1			SPARE
6	SPARE	20/1	C	20/1			SPARE
7	SPARE	20/1	A	20/1			SPARE
8	SPARE	20/1	B	20/1			SPARE
9	SPARE	20/1	C	20/1			SPARE
10	SPARE	20/1	A	20/1			SPARE
11	SPARE	20/1	B	20/1			SPARE
12	SPARE	20/1	C	20/1			SPARE
13	SPARE	20/1	A	20/1			SPARE
14	SPARE	20/1	B	20/1			SPARE
15	SPARE	20/1	C	20/1			SPARE
16	SPARE	20/1	A	20/1			SPARE
17	SPARE	20/1	B	20/1			SPARE
18	SPARE	20/1	C	20/1			SPARE
19	SPARE	20/1	A	20/1			SPARE
20	SPARE	20/1	B	20/1			SPARE
21	SPARE	20/1	C	20/1			SPARE
22	SPARE	20/1	A	20/1			SPARE
23	SPARE	20/1	B	20/1			SPARE
24	SPARE	20/1	C	20/1			SPARE
25	SPARE	20/1	A	20/1			SPARE
26	SPARE	20/1	B	20/1			SPARE
27	SPARE	20/1	C	20/1			SPARE
28	SPARE	20/1	A	20/1			SPARE
29	SPARE	20/1	B	20/1			SPARE
30	SPARE	20/1	C	20/1			SPARE
31	SPARE	20/1	A	20/1			SPARE
32	SPARE	20/1	B	20/1			SPARE
33	SPARE	20/1	C	20/1			SPARE
34	SPARE	20/1	A	20/1			SPARE
35	SPARE	20/1	B	20/1			SPARE
36	SPARE	20/1	C	20/1			SPARE
37	SPARE	20/1	A	20/1			SPARE
38	SPARE	20/1	B	20/1			SPARE
39	SPARE	20/1	C	20/1			SPARE
40	SPARE	20/1	A	20/1			SPARE
41	SPARE	20/1	B	20/1			SPARE
42	SPARE						