

College of San Mateo

Building 34 Modernization San Mateo County Community College District

ABBREVIATIONS

A.B. Anchor Bolt	CA Gage	R Radius
ACI American Concrete Institute	CALV Galvanized	R.D. Roof Drain
A.D. Area Drain	G.B. Grade Beam	RDWD Redwood
ADDL Additional	GLB Glued Laminated Beam	REF Reference
ADJ Adjacent	GLC Glued Laminated Column	REINF Reinforcing
A.F.F. Above Finish Floor	GR Grade	REQD Required
AISC American Institute of Steel Construction	GYP Gypsum	REV Revision
ALT Alternate	HDR Header	RF Roof
APPROX Approximately	HGR Hanger	RM Room
ARCH Architect or Architectural	HK Hook	R.O. Rough Opening
ASPH Asphalt	HORIZ Horizontal	S Section Modulus
ASTM American Society of Testing and Materials	H.P. High Point	S.A.D. See Architectural Drawings
A.C. Asphaltic Concrete, Air Condition	H.R. Hard Rock	S.C.D. See Civil Drawings
BAL Balance	HT Height	SCHED Schedule
B.L. Bottom Lower	I Moment of Inertia	S.E.D. See Electrical Drawings
BLDG Building	I.D. Inside Diameter	SF Square Feet
BLK Block	I.F. Inside Face	SHT Sheet
BLKG Blocking	INFO Information	SHTG Sheathing
BM Beam	INSUL Insulation	SIM Similar
B.O. Bottom of	INT Interior	S.J. Shrinkage Joint, Seismic Joint or Slip Joint
BOT Bottom	JST Joist	S.L.D. See Landscape Drawings
B.P. Break Point	JT Joint	S.M.D. See Mechanical Drawings
BRD Board	KIPS 1000 Pounds	S.M.F. Special Moment Frames
BRG Bearing	KSF KIPS Per Square Foot	S.M.S. Sheet Metal Screw
BRKT Bracket	L Channel	S.O.G. Slab On Grade
BTWN Between	LBS Pounds	SP Space or Spacing
B.U. Bottom Upper	LL Live Load	S.P.D. See Plumbing Drawings
C Channel	LLV Long Leg Vertical	SPEC Specification
CBC California Building Code	LLH Long Leg Horizontal	SQ Square
C.I.P. Cast In Place	LLV Long Leg Vertical	S.S.D. See Structural Drawings
C.J. Construction or Control Joint	LONGIT Longitudinal	STAG Staggered
CLG Ceiling	L.P. Low Point	STD Standard
C Center Line	L.S. Low Shrinkage	STIFF Stiffener
CL Clear	LSL Laminated Strand Lumber	STL Steel
CMU Concrete Masonry Unit	LT Light	STRUCT Structural
COL Column	LVL Laminated Veneer Lumber	SYM Symmetric
CONC Concrete	LTWT Light Weight	T & B Top and Bottom
CONN Connection	MACH Machine	T & C Tongue and Groove
CONSTR Construction	MAS Masonry	T.B. Tie Beam
CONTIN Continuous	MATL Material	THK Thick
C.J.P. Complete Joint Penetration	MAX Maximum	THRU Through
CTR Center	M.B. Machine Bolt	T.L. Top Lower
CTRD Centered	MC Miscellaneous Channel	T.O. Top Of
CTRSNK Countersink	M.D. Mid-depth	T.O. CONC Top of Concrete
d Penny weight	MECH Mechanical	T.O. PAR Top of Parapet
DBL Double	M.F. Moment Frame	T.O. PLY Top of Plywood
DEPR Depression	MFR Manufacturer	T.O. PL Top of Plate
D.F. Douglas Fir	MIN Minimum	T.O. SLAB Top of Slab
DIA or Ø Diameter	MISC Miscellaneous	T.O. STL Top of Steel
DIAC Diagonal	MTL Metal	T.O. WALL Top of Wall
DIM Dimension	(N) New	TRANS Transverse
DL Dead Load	N.A. Not Applicable	TS Tube Steel
DN Down	N.I.C. Not In Contract	T.U. Top Upper
do Ditto	NO. Number	TYP Typical
D.W.F. Deformed Wire Fabric	N.P. No Profile	UBC Uniform Building Code
DWG Drawing	N.S. Near Side	U.N.O. Unless Noted Otherwise
(E) Existing	N.T.S. Not To Scale	V.B. Vapor Barrier
EA Each	o.c. On Center	VENT Ventilation
E.F. Each Face	O.D. Outside Diameter	VERT Vertical
E.J. Expansion Joint	O.F. Outside Face	V.I.F. Verify In Field
EL Elevation	O.H. Opposite Hand	W Wide Flange
ELEC Electrical	OPNG Opening	w/ Without
ELEV Elevator	OPR Opposite	w/o Without
EMBED Embedment	OSB Oriented Strand Board	WD Wood
E.N. Edge Nail	O.W.S.G. Open Web Steel Girder	WF Wide Flange
ENCL Enclosure	O.W.S.J. Open Web Steel Joist	W.P. Work Point
ENGR Engineer	PAR Parapet	W.P.J. Weakened Plane Joint
E.O. Edge of	PC Piece	WT Weight or Structural T
E.O. MAS Edge of Masonry	PC/P Precast	W.W.F. Welded Wire Fabric
E.O. PL Edge of Plate	PCF Pounds per Cubic Foot	
E.O. SLAB Edge of Slab	P.D.F. Powder Driven Fastener	
EQ Equal	P.D.P. Powder Driven Pin	
EQPT Equipment	P Property Line	
E.W. Each Way	PL Plate	
EXP Expansion	PLF Pounds per Linear Foot	
EXT Exterior	PLY Plywood	
	PLYWD Plywood	
	P.J.P. Partial Joint Penetration	
	PSF Pounds per Square Foot	
	PSI Pounds per Square Inch	
	PSL Parallel Strand Lumber	
	P/T Post-Tensioned	
	P.T. Pressure Treated	
	P.T.D.F. Pressure Treated Douglas Fir	
F.D. Floor Drain		
FDN Foundation		
F.F. Finish Floor		
FIN Finish		
FLR Floor		
F.O. Face of		
F.O. CONC Face of Concrete		
F.O. MAS Face of Masonry		
F.O. STUD Face of Stud		
FRMG Framing		
F.S. Far Side		
FT Foot or Feet		
FTC Footing		

SYMBOLS

SECTION REFERENCE:		WALL ELEVATION:	
DETAIL REFERENCE:		WALL SECTION:	
DETAIL REFERENCE:		BUILDING SECTION:	
REVISION IDENTIFICATION:			
MATERIALS SHOWN ON PLANS:		CAST-IN-PLACE CONCRETE	
		PRECAST CONCRETE	
		CONCRETE MASONRY UNITS	
		BRICK MASONRY UNITS	
		STEEL MEMBERS	
		WOOD OR METAL STUDS	
MATERIALS SHOWN ON DETAILS:		CAST-IN-PLACE CONCRETE IN SECTION	
		PRE-CAST OR C.I.P. CONCRETE IN ELEVATION	
		PRE-CAST CONCRETE IN SECTION	
		CMU OR BRICK IN ELEVATION	
		BRICK MASONRY UNITS IN SECTION	
		CONCRETE MASONRY UNITS IN PLAN	
		CONCRETE MASONRY UNITS IN SECTION	
		WIDE FLANGE SECTION	
		CHANNEL SECTION	
		TUBE SECTION	
		PIPE SECTION	
		ANGLE SECTION	
		METAL STUD OR JOIST	
		WOOD STUD OR JOIST	
		STUD WALL w/ PLYWOOD SHEATHING	
		CONTIN WOOD MEMBER	
		WOOD BLOCKING	
		GLU-LAM SECTION	
		TRUSS JOIST	
		SAND	
		ROCK	
		EARTH	

DRAWING INDEX

SHEET INDEX		ISSUE LOG				
#	TITLE	10-29-10	12-03-10	01-20-11	02-04-11	
S0.00	TITLE PAGE & SHEET INDEX	✓	✓	✓	✓	
S1.00	GENERAL NOTES	✓	✓	✓	✓	
S1.01	GENERAL NOTES	✓	✓	✓	✓	
S2.11	BUILDING 34 - FOUNDATION PLAN	✓	✓	✓	✓	
S2.12	BUILDING 34 - ROOF PLAN	✓	✓	✓	✓	
S3.01	ELEVATIONS, SECTIONS & DETAILS	✓	✓	✓	✓	
S3.02	ELEVATIONS, SECTIONS & DETAILS	✓	✓	✓	✓	
S3.03	SECTIONS & DETAILS	✓	✓	✓	✓	
S3.04	SECTIONS & DETAILS	✓	✓	✓	✓	

ISSUE LOG KEY:
 ✓ ISSUED AS PART OF A SET
 - NOT A PART OF ISSUED SET
 * ISSUED FOR INFORMATION ONLY

CONSTRUCTION DOCUMENTS

COLLEGE OF SAN MATEO

BUILDING 34
MODERNIZATION

SMCCCD
3401 CSM Drive
San Mateo, CA 94402
College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE

TITLE PAGE & SHEET INDEX

REVISIONS		
NO.	DATE	DESCRIPTION

DATE FEBRUARY 04, 2011

DRAWN RQM

CHECKED DR/JMW

SCALE

KPFF JOB NO.: K109013.00

SHEET NUMBER

S0.00

GENERAL NOTES

LIGHT METAL STRUCTURAL FRAMING

Light metal structural framing shall be fabricated and erected according to manufacturer's recommendations. All structural properties shall be computed in accordance with the AISI "Specifications for the Design of Cold Formed Steel Structural Members," latest edition.

Unless otherwise noted, steel shall conform to the following specifications:

- Studs, runners, and joists, painted, 54 mils and heavier: ASTM A1011 Grade 50, modified to a minimum yield point of 50 ksi.
- Studs, runners, and joists, galvanized, 54 mils and heavier: ASTM A653 Grade 50, minimum 50 ksi yield.
- Studs, runners, and joists, painted, 43 mils and lighter: ASTM A1008 Grade 33, modified to a minimum yield point of 33 ksi.
- Studs, runners, and joists, galvanized, 43 mils and lighter: ASTM A653 Grade 33, minimum 33 ksi yield.

For minimum stud section properties, refer to the architectural details and ICC ER-4943P.

Metal stud and metal joist bridging (V or solid) shall be provided and installed according to the manufacturer's recommendations. Align at least one metal stud under every metal joist, beam, or header.

Welding of light metal shall be with fillet welds equal in thickness to the thinner of the two sections being joined. All welded connections shall be welded as shown on the structural drawings. Double vertical studs shall be stitch welded together on both flanges with 1/16" groove welds x 1' long at 12" on center.

Shop drawings shall be submitted to the Architect for review prior to erection.

The Testing Laboratory shall send copies of all testing reports directly to the appropriate Building Inspection Department.

EPOXY

Epoxy shall be HIT-RE 500 as manufactured by Hilti, Inc. (ICC Evaluation Report ER-2322). All drilled holes shall be sized according to the manufacturer's recommendations.

EXPANSION ANCHORS

Expansion anchors shall be Kwik Bolt TZ expansion bolts for concrete applications (ICC Evaluation Report ESR-1917) as manufactured by Hilti, Inc.

Anchor diameter refers to the thread size of the anchor.

Drilled holes shall be clear and free from dust immediately prior to installation of the anchors and shall be sized according to the manufacturer's recommendation.

SHOP DRAWING SUBMITTALS

When indicated with a '✓', the following items shall have either a) shop drawings or b) certificates of conformance or c) shop drawings, calculations, and details submitted to the architect for review and approval prior to fabrication. When shop drawings, calculations, and details are required, submittals (drawings and calculations) must be signed and stamped by a Civil or Structural Engineer registered in the State of California. For additional information on the contents of the submittals, refer to the project specifications and the specific general notes sections. The Engineer will review two prints and one reproducible copy of each submittal.

Item	Shop Drawings	Certificate	Shop Dwg. Calcs, and Details	Remarks
Concrete, reinforcing	✓			
Concrete, mixes	✓			
Concrete, cement		✓		
Concrete, fine aggregates		✓		
Concrete, coarse aggregates		✓		
Concrete, admixtures		✓		
Structural steel	✓			
Prefabricated Mezzanine			✓	

SPECIAL INSPECTION

When indicated with a '✓', the following items shall be inspected in accordance with CBC Section 1704 by a certified special inspector from an established testing agency. All inspection shall be continuous, unless otherwise noted. For material sampling and testing requirements, refer to the material sampling and testing section, the project specifications, and the specific general notes sections. The testing agency shall send copies of all structural testing and inspection reports directly to the Architect, Engineer, and Building Department. Any materials which fail to meet the project specifications shall immediately be brought to the attention of the Architect.

Item	Required	Remarks
Concrete, rebar placement	✓	Inspect final placement
Concrete, rebar welding	✓	
Concrete, rebar coupling	✓	10% with torque wrench
Concrete, anchor bolts and inserts	✓	
Concrete, concrete placement	✓	Continuous
Batch plant inspections	✓	Periodic
Expansion anchor placement	✓	
Epoxy anchor placement	✓	
Structural steel, shop welding - periodic	✓	Fillet welds
Structural steel, shop welding - continuous	✓	Partial or full penetration welds
Structural steel, field welding - periodic	✓	Single pass fillet welds ≤ 5/16"
Structural steel, field welding - continuous	✓	Partial or full penetration welds & other fillet welds
Structural steel, high strength bolting	✓	
Structural steel, welded anchors or studs	✓	
Shear wall sheathing nailing	✓	Periodic
Anchor bolt/holdown/metal strap placement		

MATERIAL SAMPLING AND TESTING

When indicated with a '✓', the following materials shall be sampled and/or tested by a certified inspector from an established testing agency in accordance with the project specifications, general notes, or prevailing building code, whichever is more stringent. All material sampling and testing shall be performed in accordance with ASTM requirements. For additional information on material sampling and testing, refer to the project specifications and the specific general notes sections. The testing agency shall send copies of all structural testing reports directly to the Architect, Engineer, and Building Department. Any materials which fail to meet the project specifications shall immediately be brought to the attention of the Architect.

Item	Required	Remarks
Expansion anchor installation	✓	
Epoxy anchor installation	✓	
Structural Steel, Ultrasonic testing	✓	

ARCHITECT OF RECORD

architects and planners
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DATE SIGNED _____

CONSTRUCTION DOCUMENTS

**COLLEGE OF
SAN MATEO**

BUILDING 34
MODERNIZATION

SMCCCD
3401 CSM Drive
San Mateo, CA 94402
College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE

GENERAL NOTES

REVISIONS

NO.	DATE	DESCRIPTION

DATE FEBRUARY 04, 2011

DRAWN BV

CHECKED DR/JMW

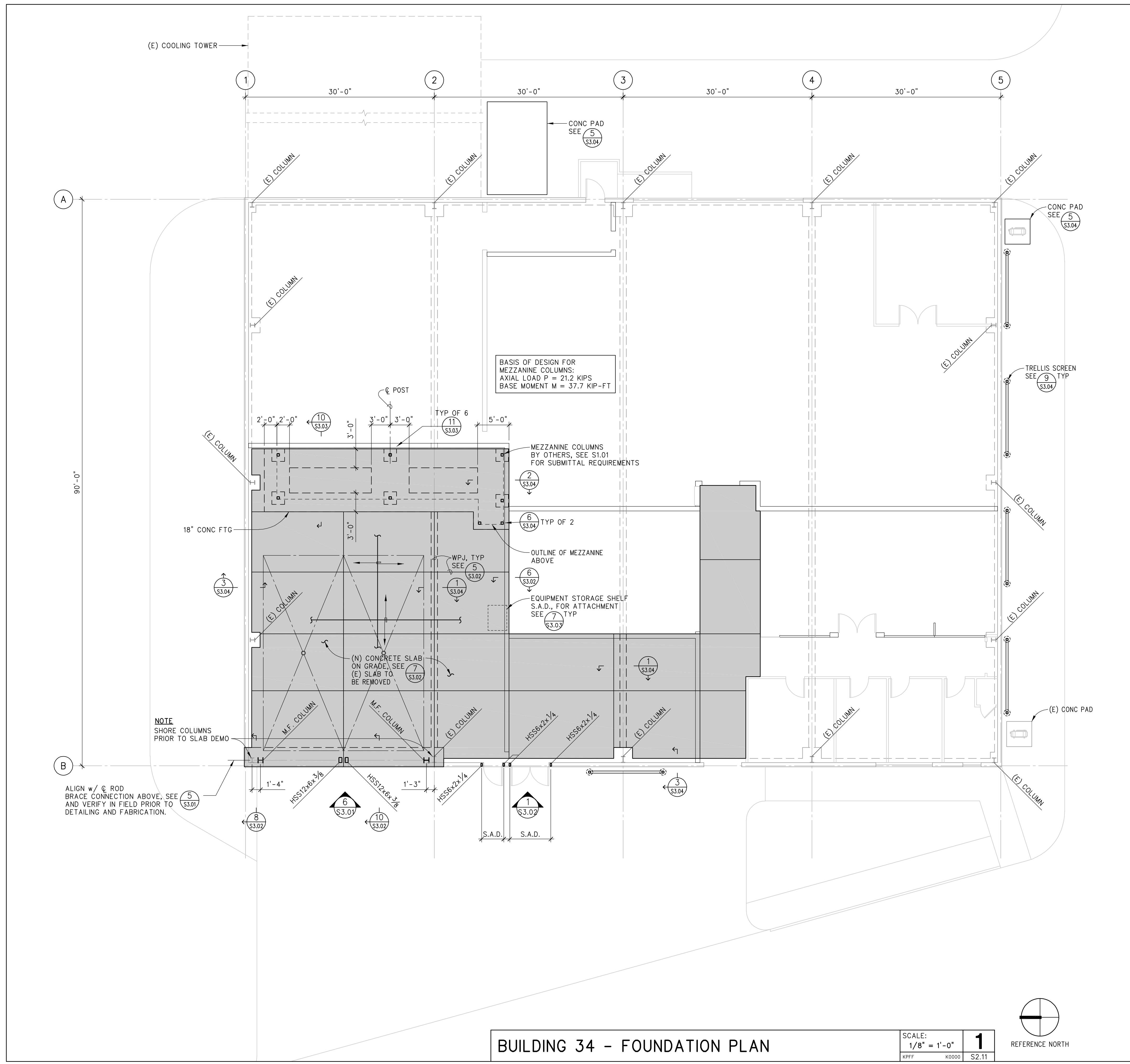
SCALE

KPFF JOB NO.: K109013.00

SHEET NUMBER

S1.01

- NOTES:
- FOR GENERAL NOTES REFER TO SHEET S1.00 & S1.01
 - VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, PRIOR TO START OF CONSTRUCTION.
 - SPECIFICATIONS AND DETAILING OF ALL WATERPROOFING AND DRAINAGE ITEMS, ALTHOUGH INDICATED ON THE STRUCTURAL DRAWINGS FOR GENERAL INFORMATION PURPOSES ONLY, ARE THE DESIGN RESPONSIBILITY OF OTHERS.
 - FOR LOCATION, SIZE, AND EXTENT OF CURBS, S.A.D.
 - FOR AREA DRAIN AND SUMP LOCATIONS, S.A.D.
 - SHORING AND UNDERPINNING OF ADJACENT PROPERTY, WHEN REQUIRED, SHALL BE DESIGNED BY OTHERS.
 - TOP OF CONCRETE S.O.G. EL. = 0'-0", U.N.O.,
 - 'S.J.' INDICATES SHRINKAGE JOINT IN S.O.G., SEE 5/S3.02
'W.P.J.' INDICATES WEAKENED PLANE JOINT IN S.O.G., SEE 5/S3.02
 - ALL ITEMS ARE NEW UNLESS NOTED (E) OR OTHERWISE.



BUILDING 34 - FOUNDATION PLAN

SCALE: 1/8" = 1'-0"
 KPFF X0000 S2.11



CONSTRUCTION DOCUMENTS

COLLEGE OF SAN MATEO
 BUILDING 34
 MODERNIZATION

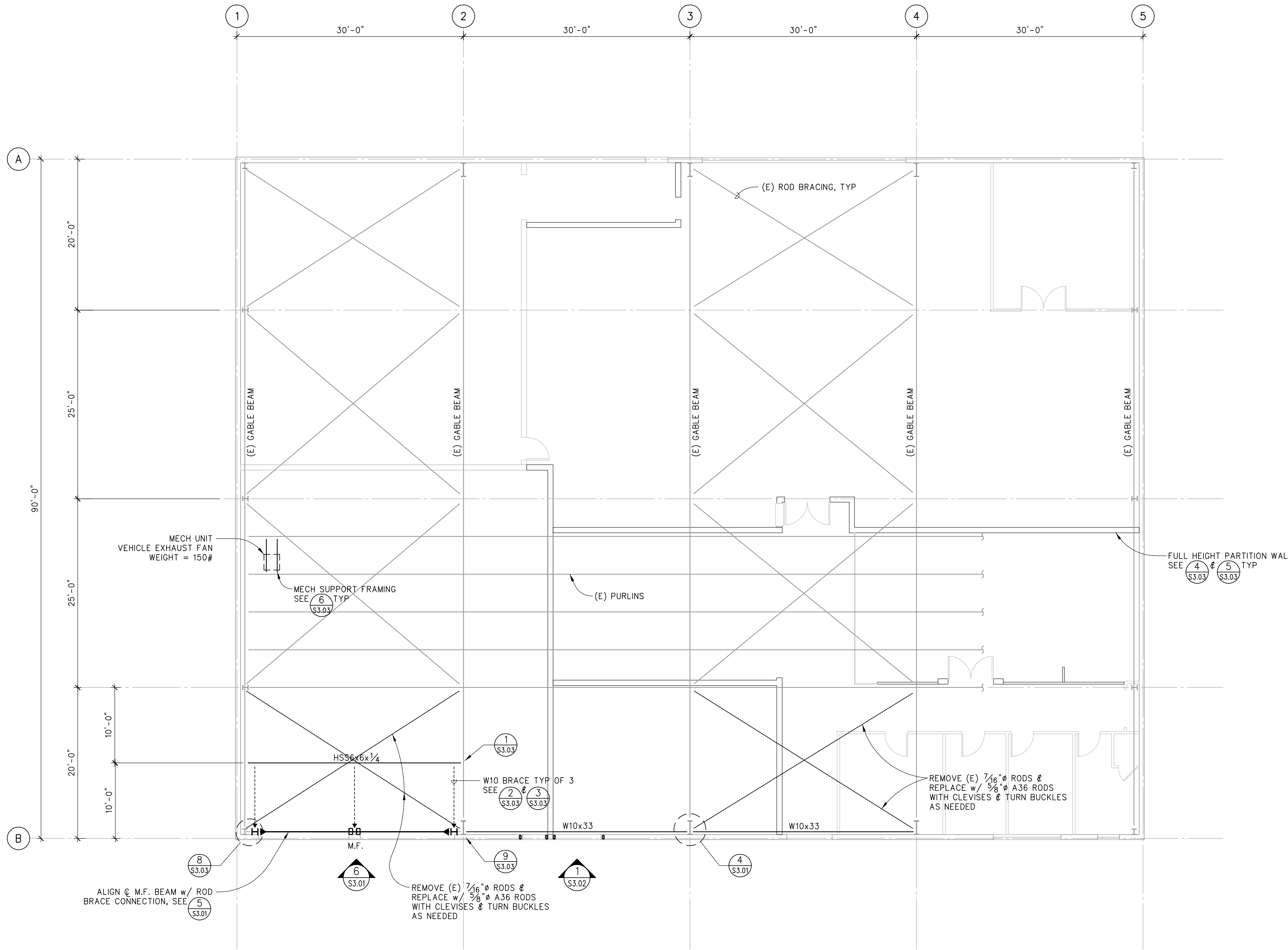
SMCCCD
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 San Mateo, CA 94402
 College of San Mateo
 1700 W. Hillsdale Blvd.
 San Mateo, CA 94402

SHEET TITLE
BUILDING 34 FOUNDATION PLAN

REVISIONS		
NO.	DATE	DESCRIPTION

DATE FEBRUARY 04, 2011
 DRAWN BV
 CHECKED DR/JMW
 SCALE
 KPFF JOB NO.: K109013.00
 SHEET NUMBER

S2.11



- NOTES:**
- FOR GENERAL NOTES REFER TO SHEET S1.00 & S1.01
 - VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, PRIOR TO START OF CONSTRUCTION.
 - FOR LOCATION AND EXTENT OF EXTERIOR WALL ASSEMBLIES AND OPENINGS, SEE ARCHITECTURAL DRAWINGS.
 - FOR LOCATION, SIZE, AND EXTENT OF CURBS, S.A.D.
 - FOR AREA DRAIN LOCATIONS, S.A.D.
 - STEEL FRAMING AND CONNECTIONS ARE SHOWN ON PLAN AS THUS:
 - FOR COLUMN SIZES, SEE ELEVATION
 - ALL ITEMS ARE NEW UNLESS NOTED (E) OR OTHERWISE.

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1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE

**BUILDING 34
ROOF PLAN**

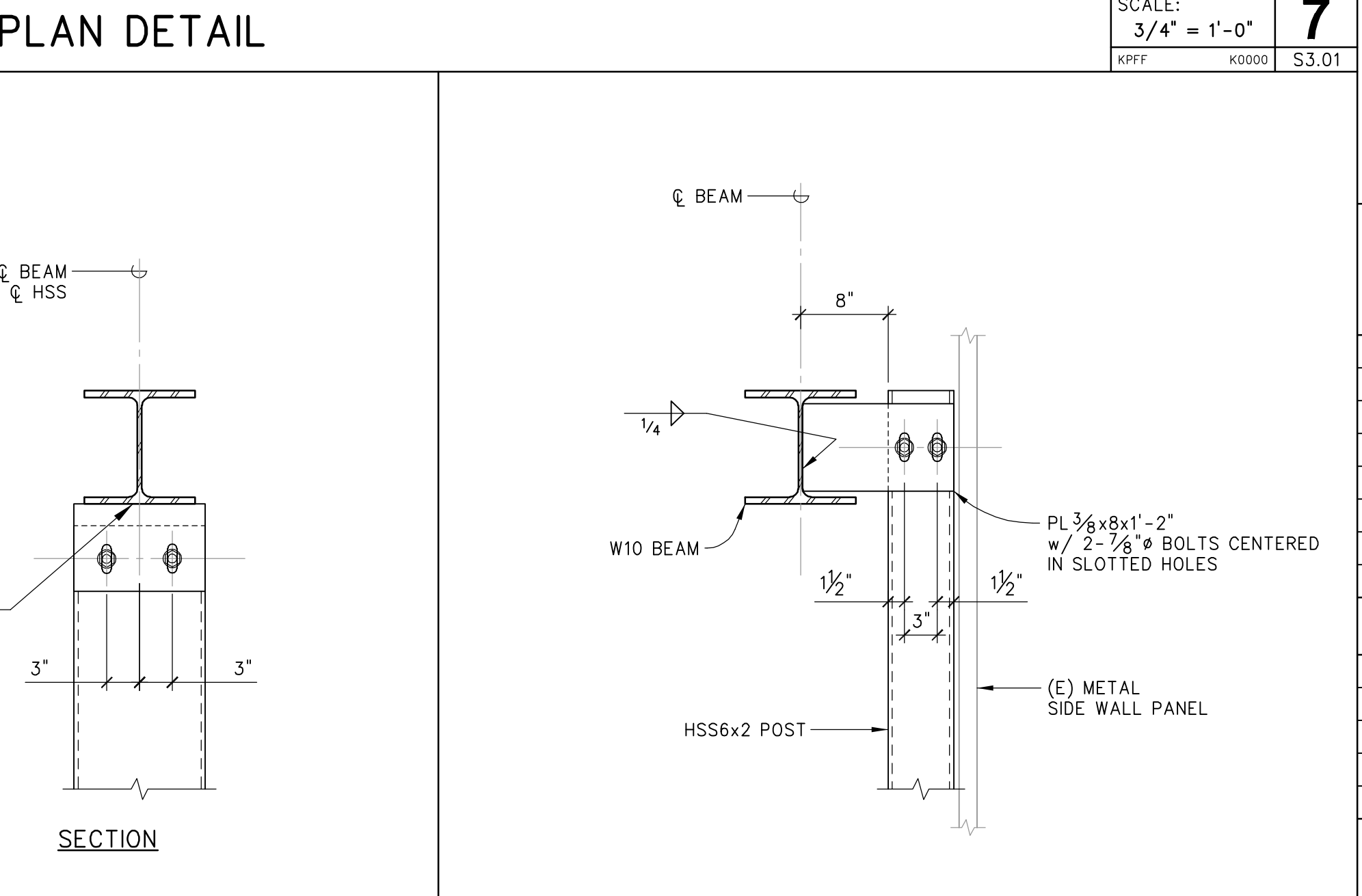
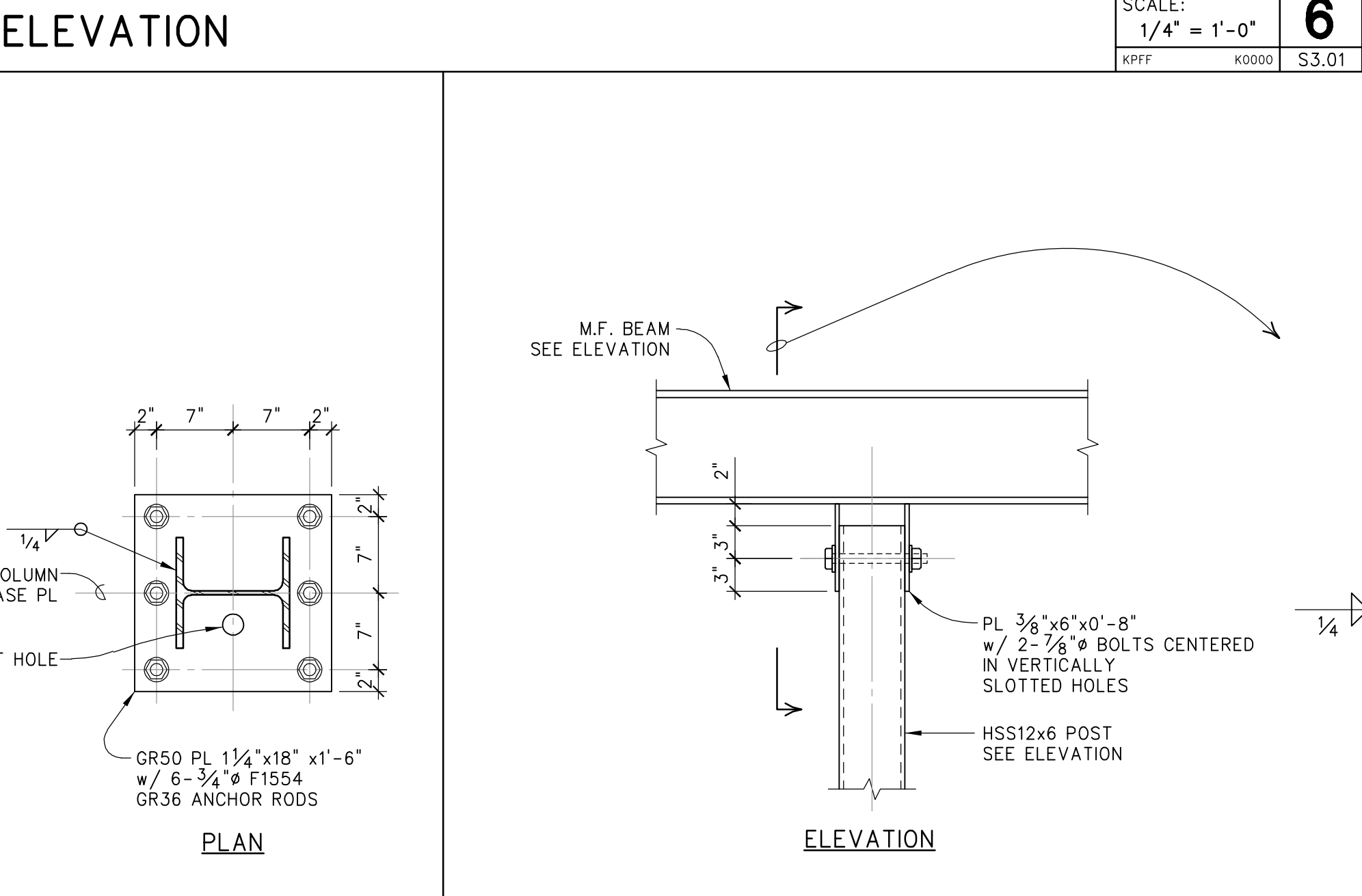
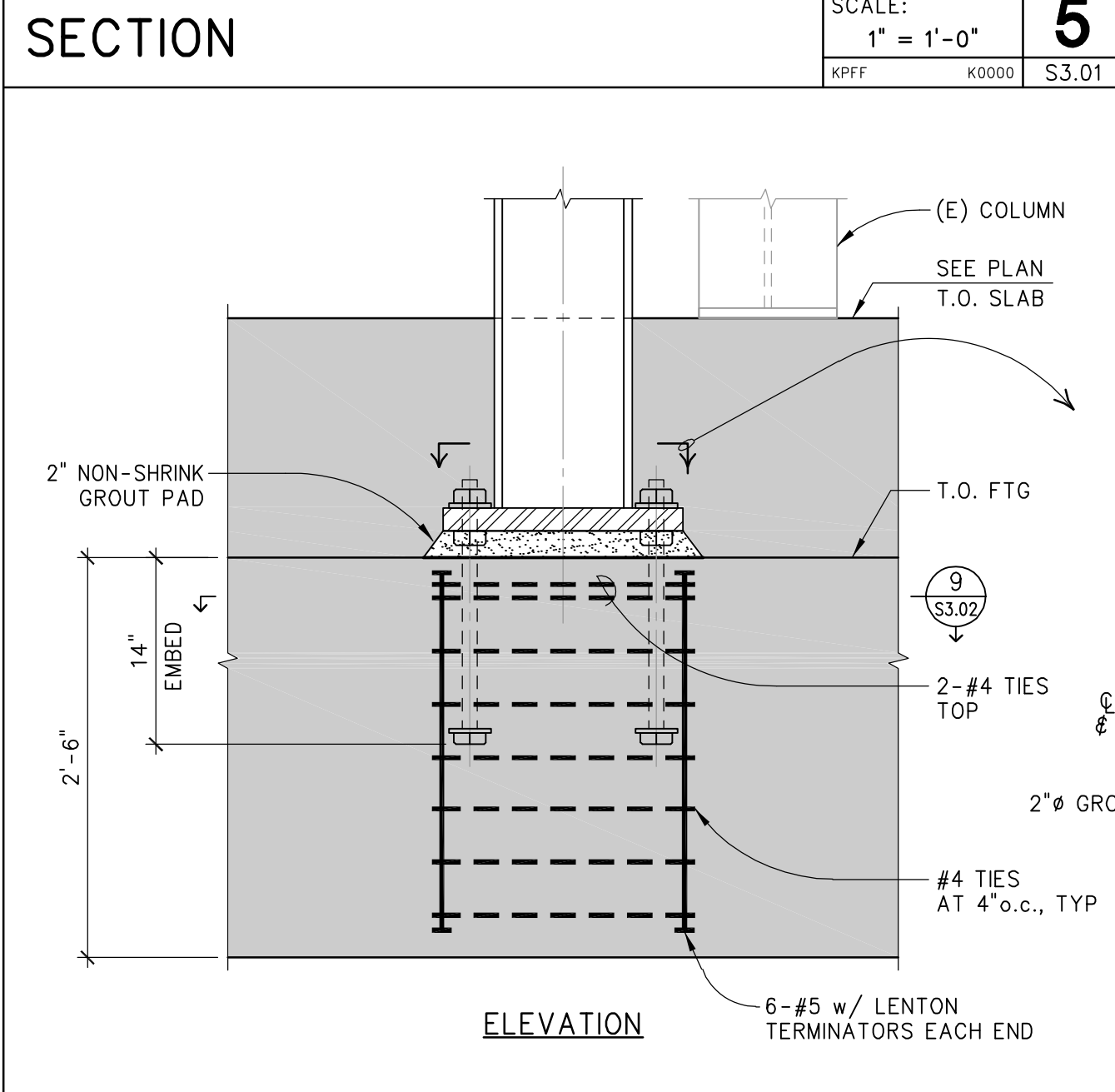
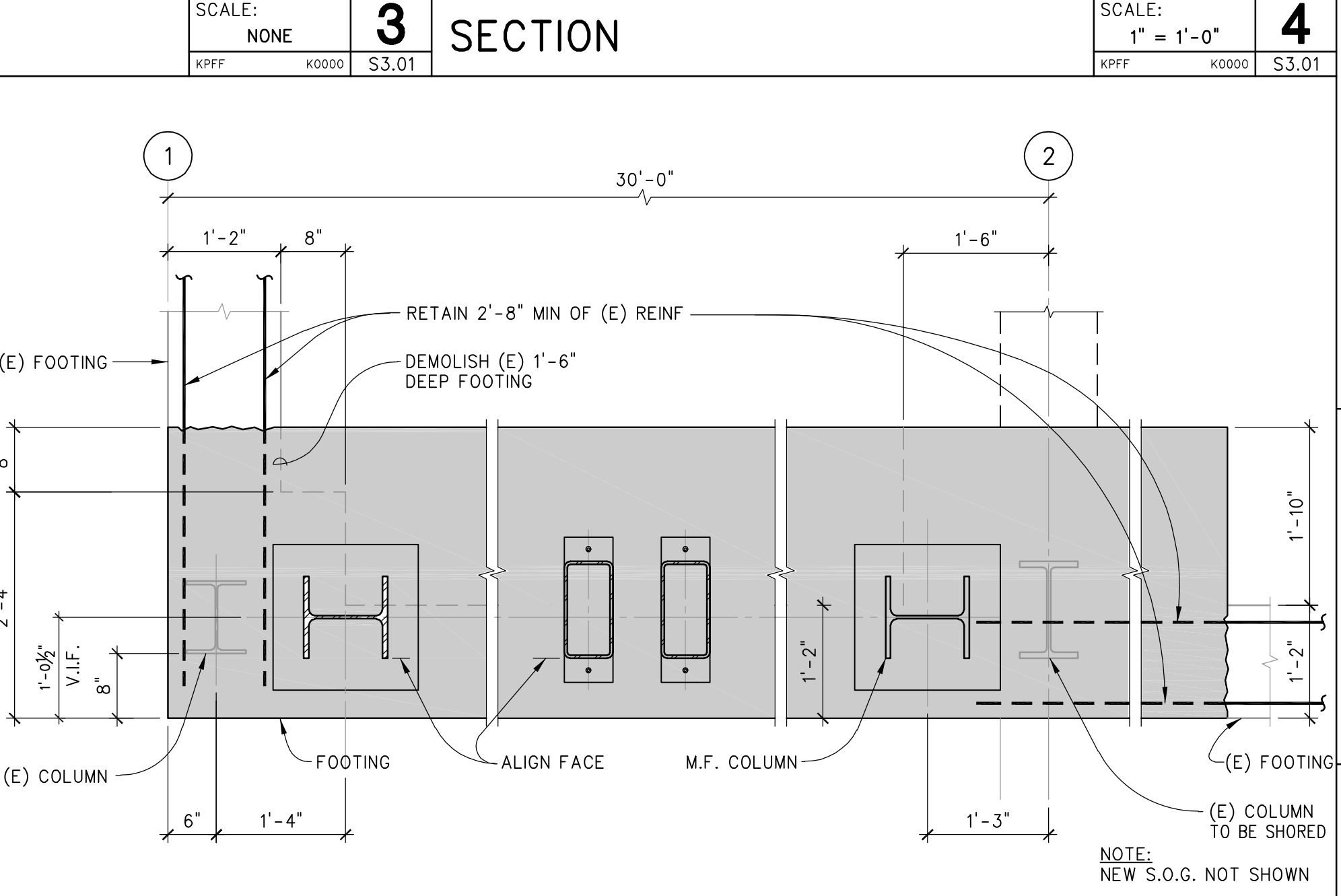
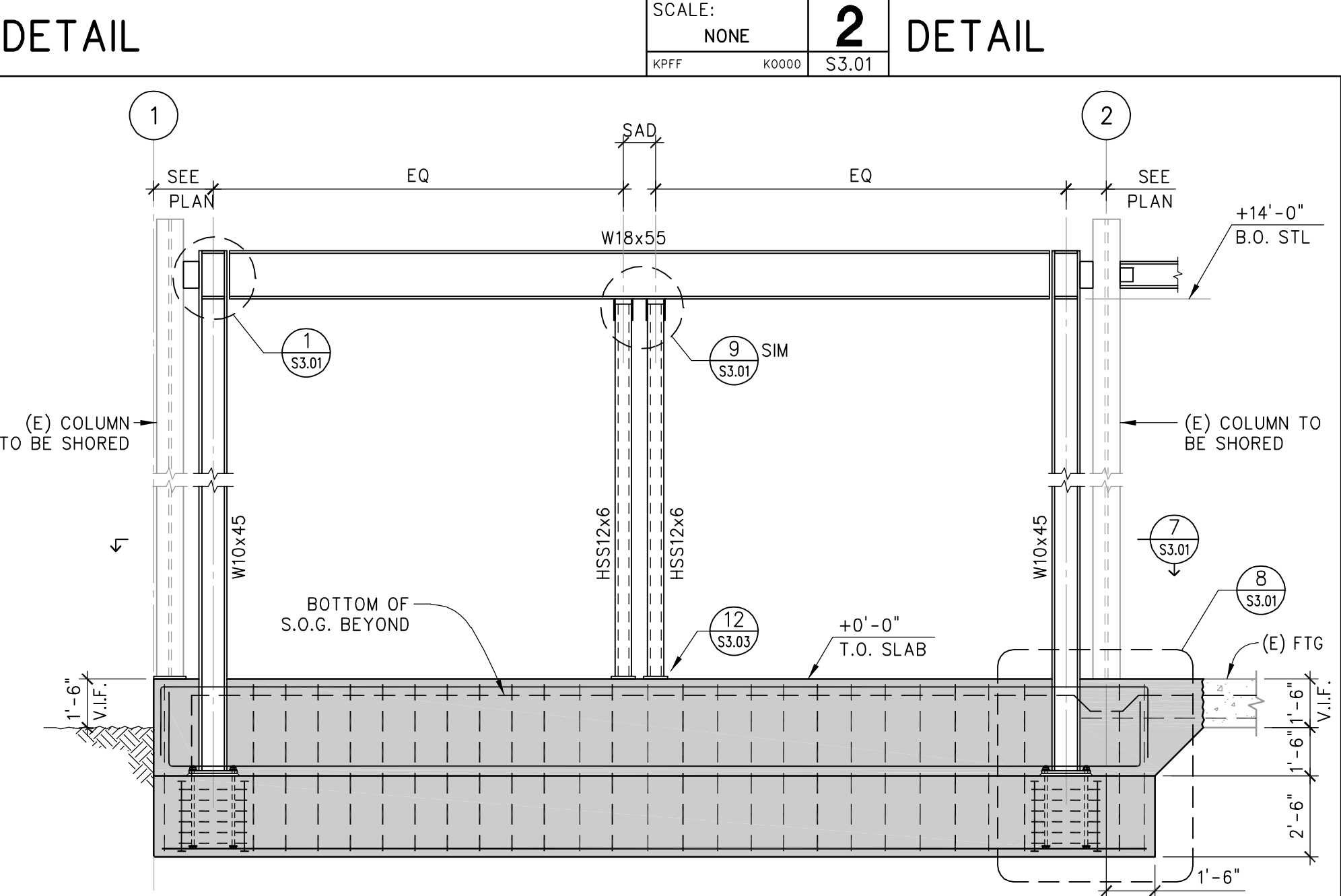
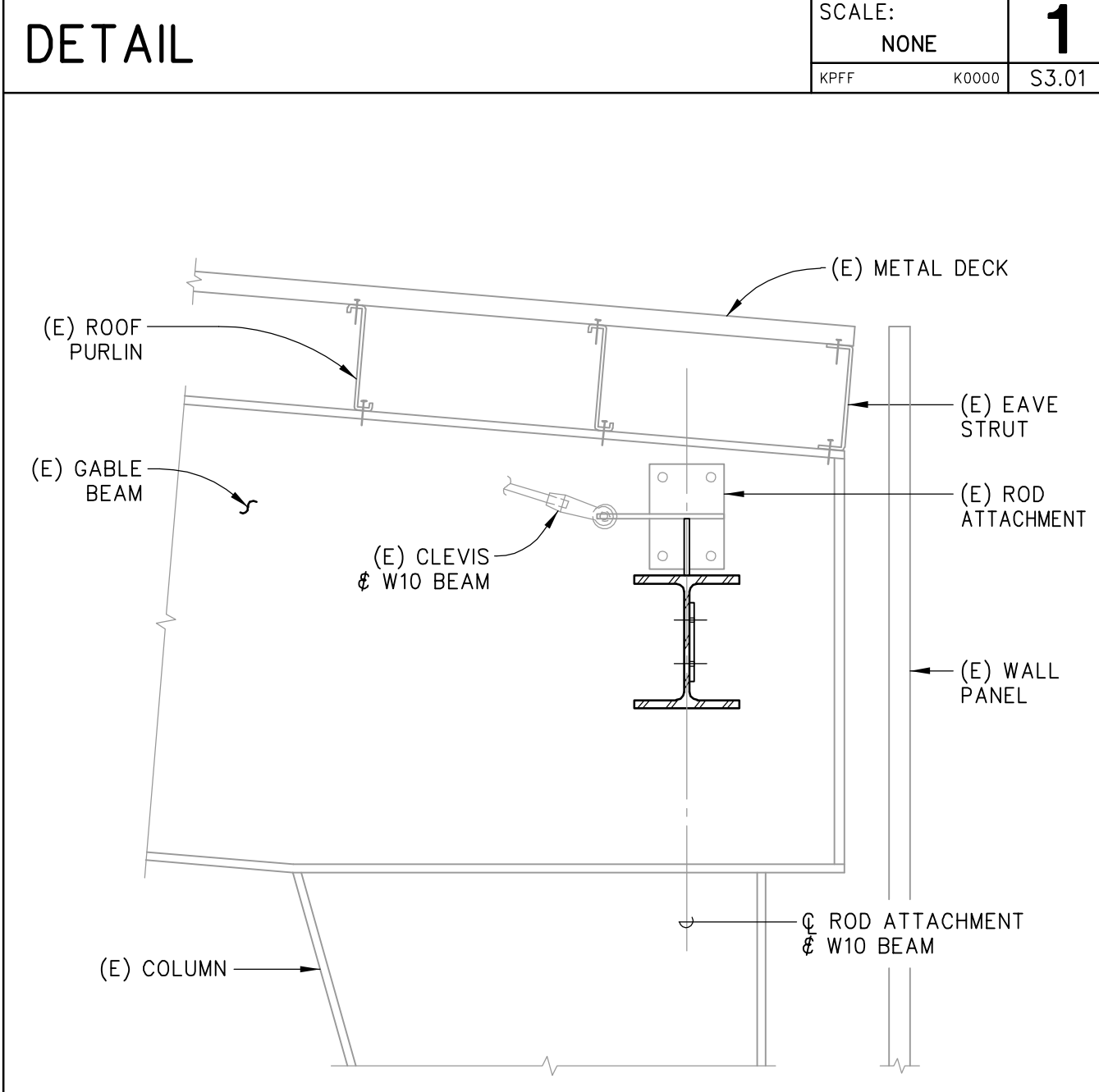
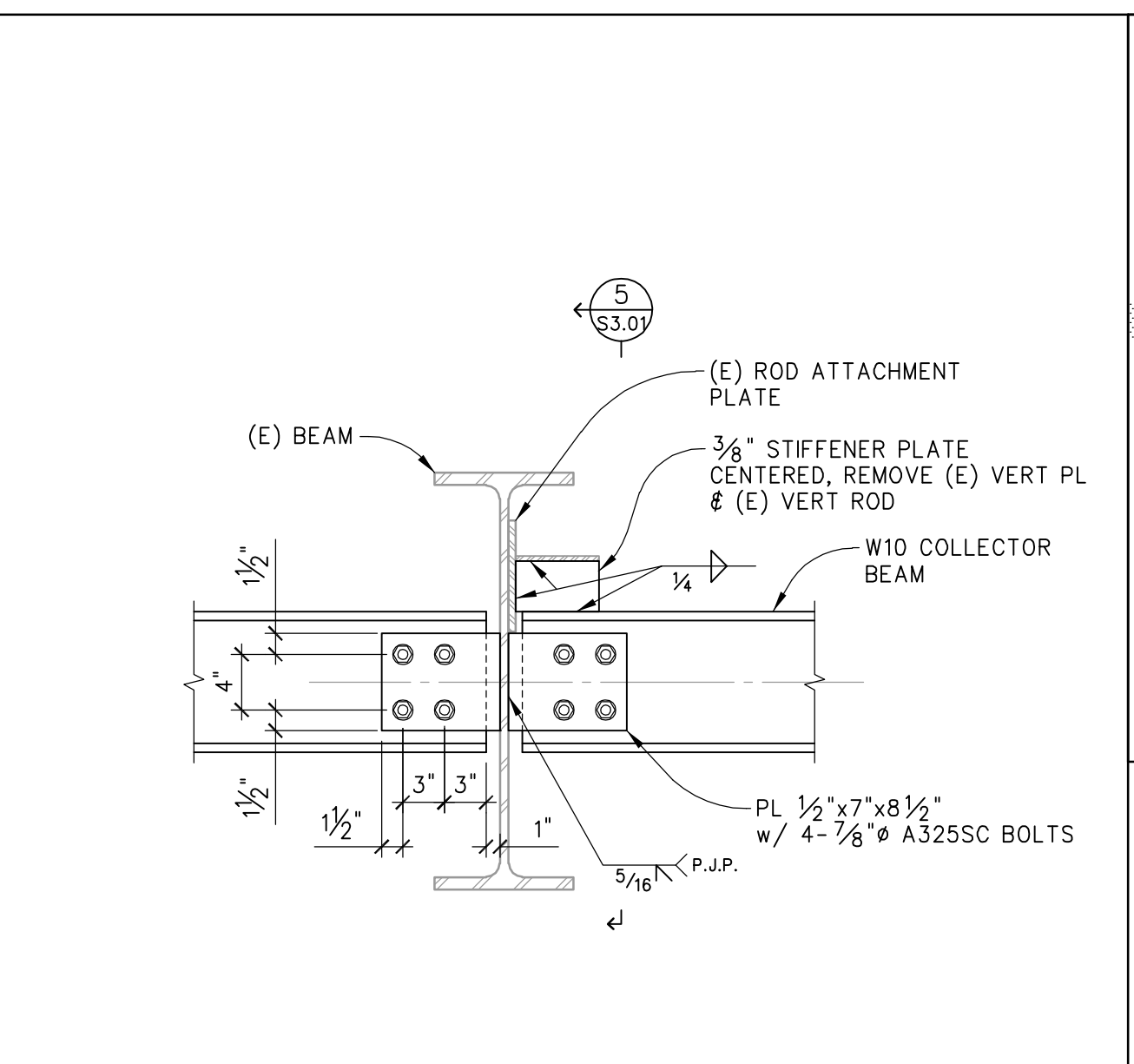
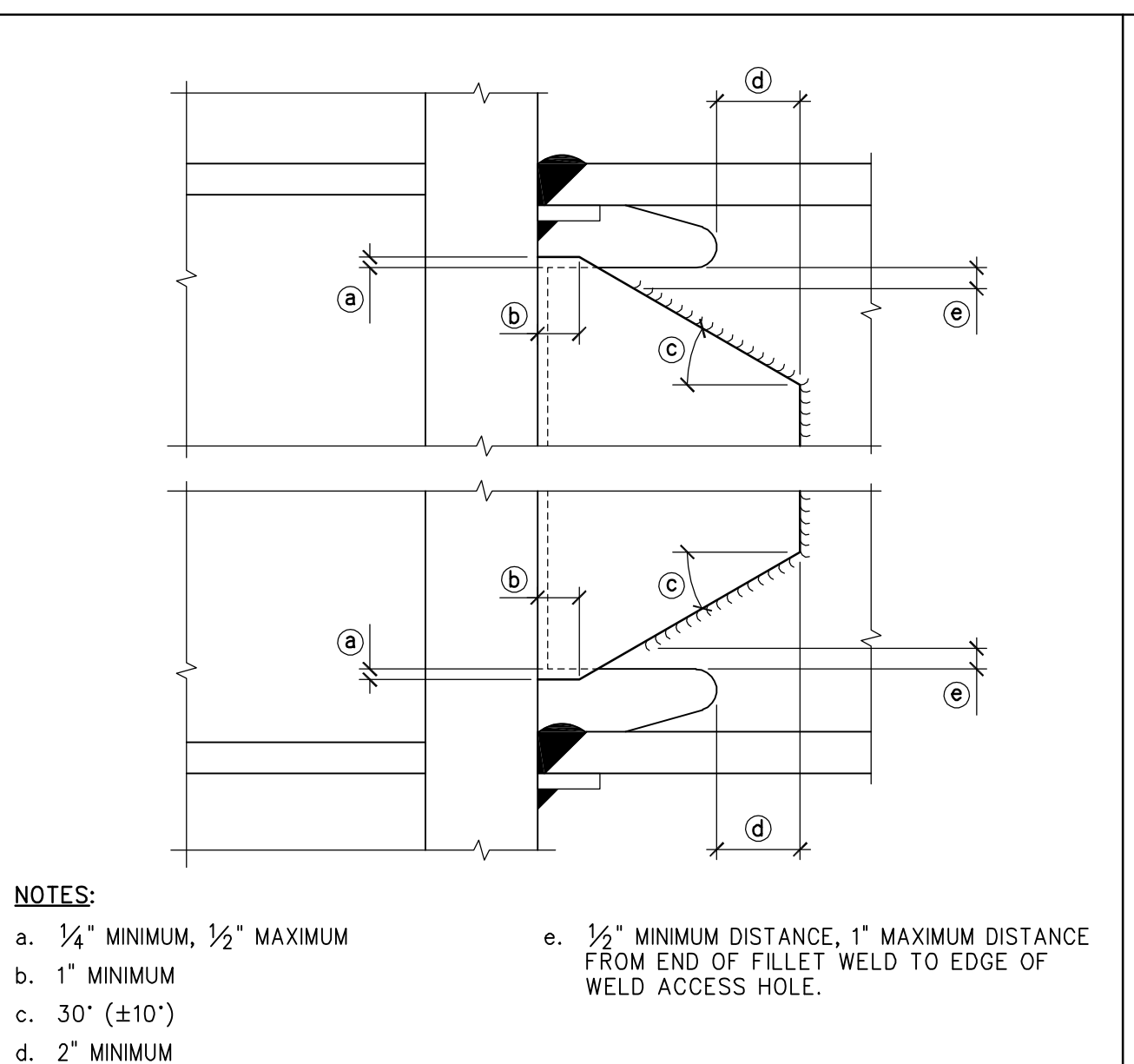
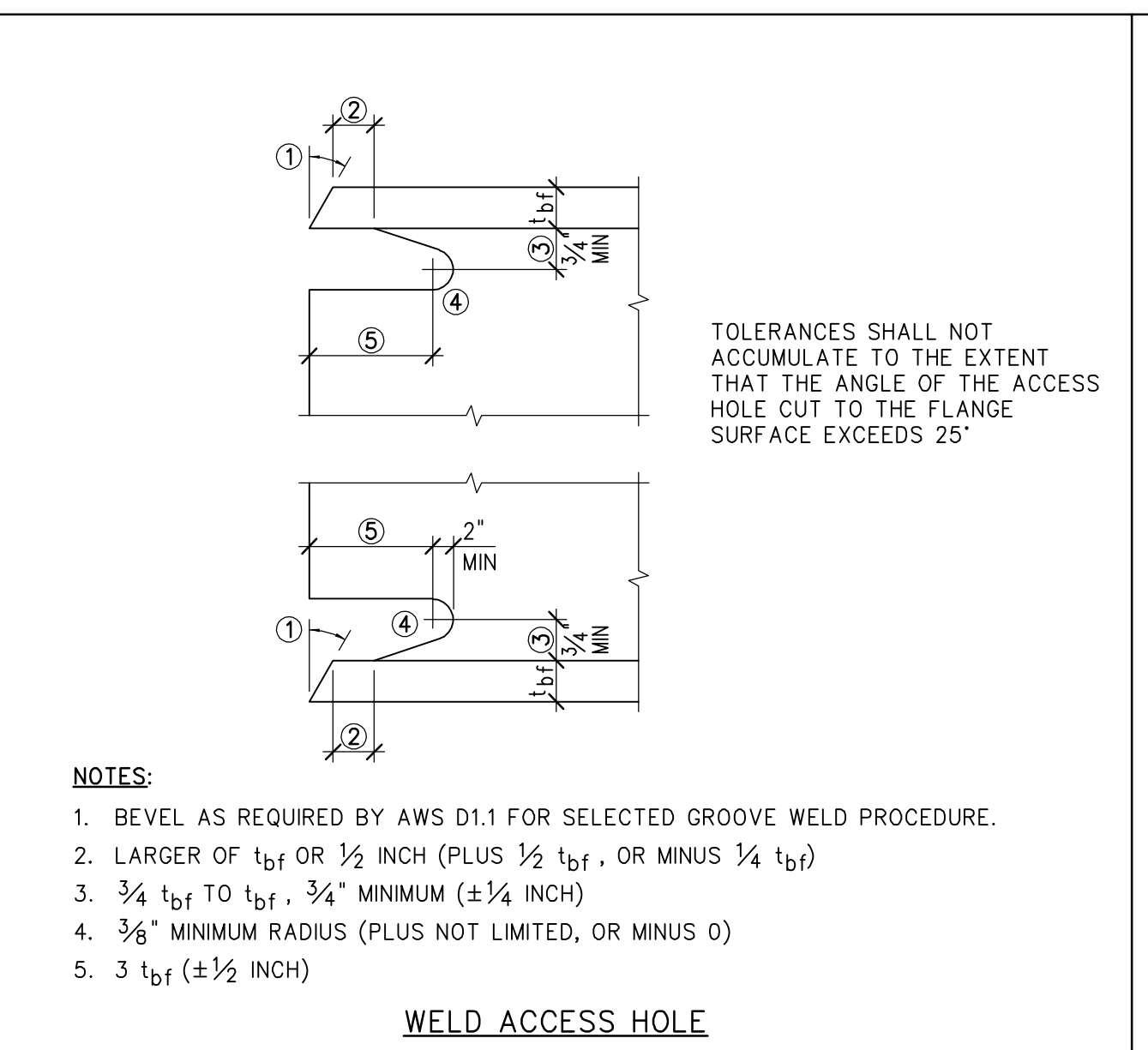
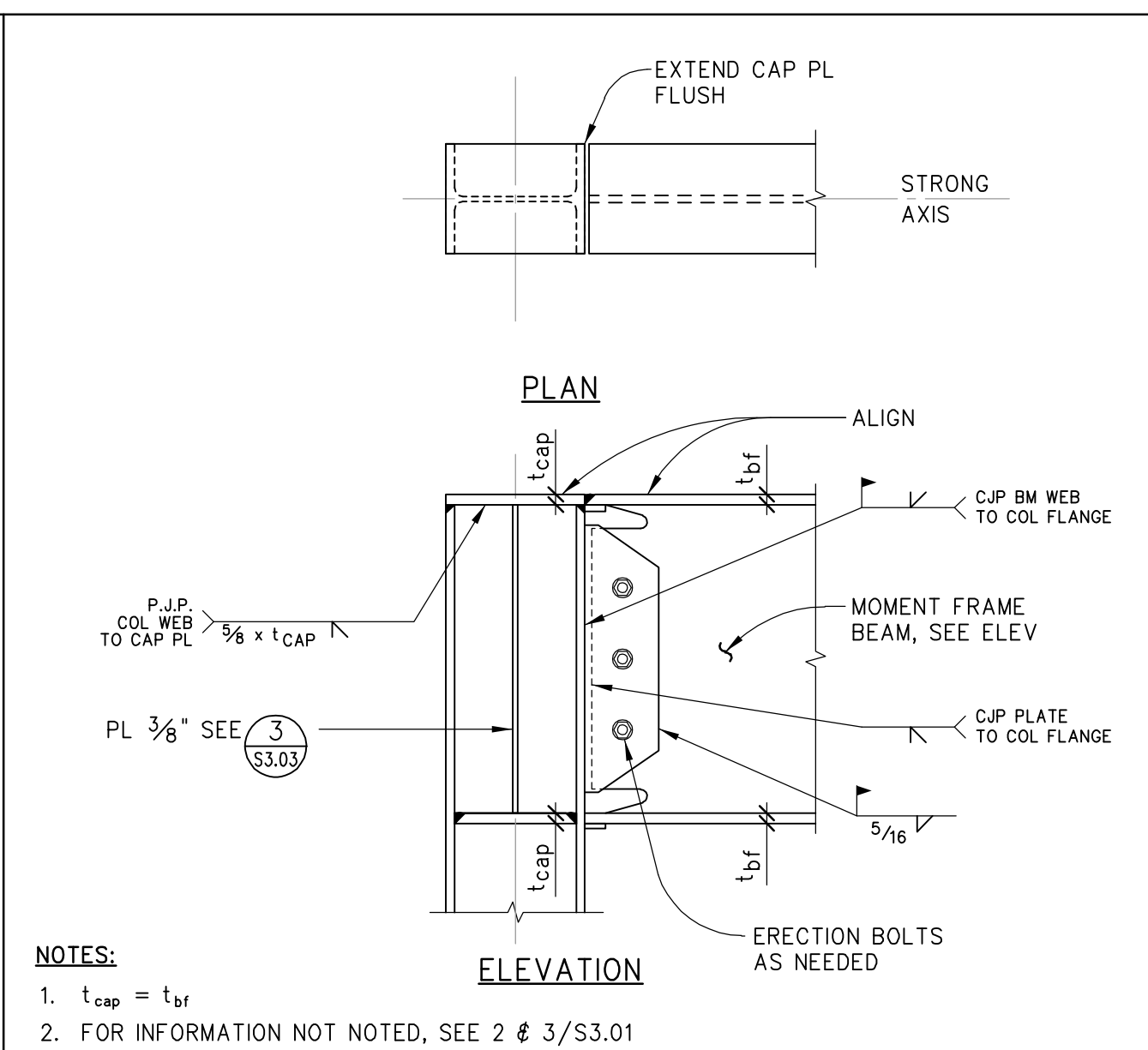
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DATE FEBRUARY 04, 2011
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SCALE
KPFF JOB NO.: K109013.00

SHEET NUMBER

S2.12

Location: I:\09013-00\B100-34\109013-34S2-12.dwg



DATE SIGNED _____

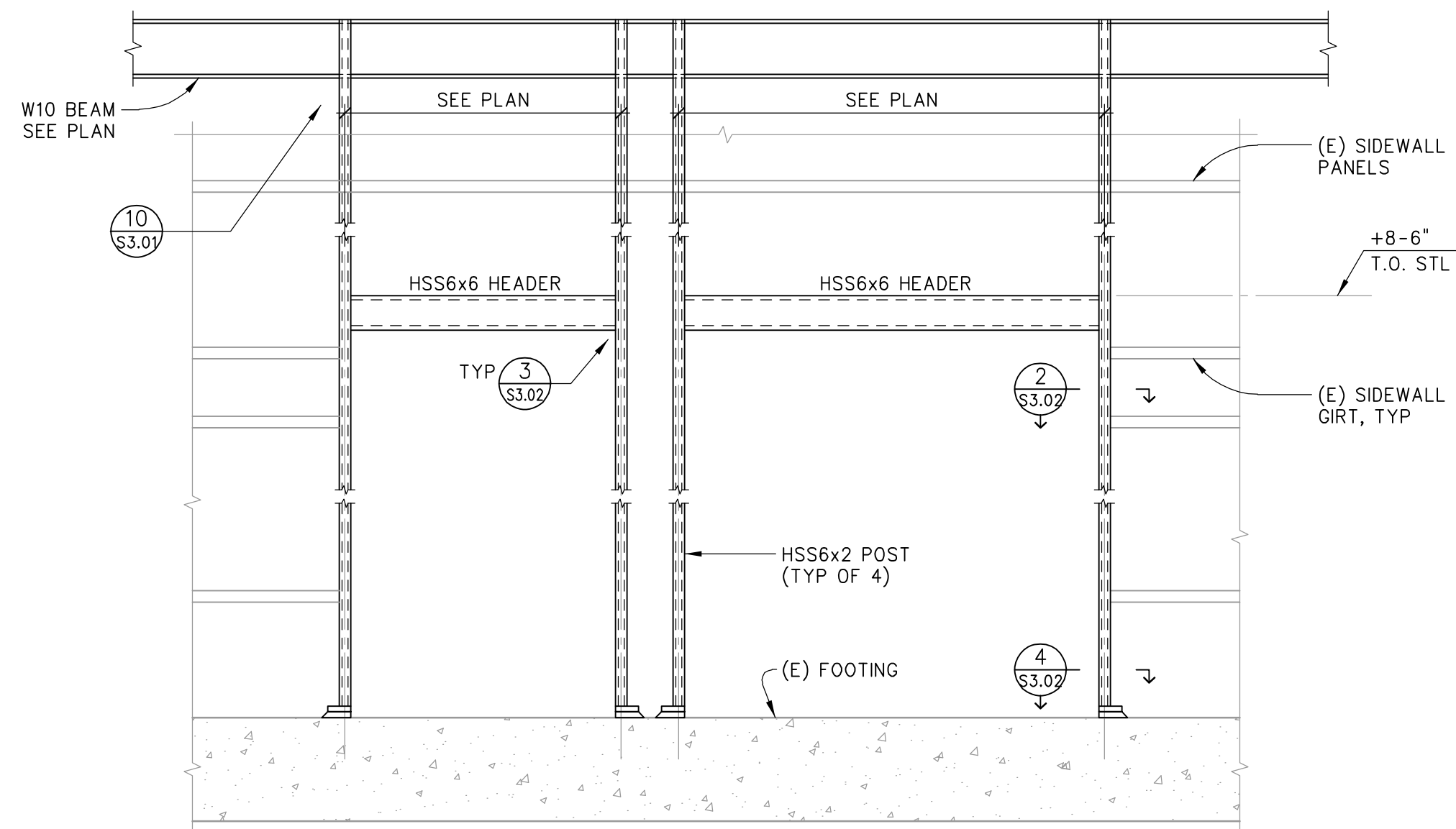
CONSTRUCTION DOCUMENTS
COLLEGE OF SAN MATEO
 BUILDING 34
 MODERNIZATION
 SMCCCD
 3401 CSM Drive
 San Mateo, CA 94402
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 San Mateo, CA 94402

SHEET TITLE
ELEVATIONS, SECTIONS & DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION

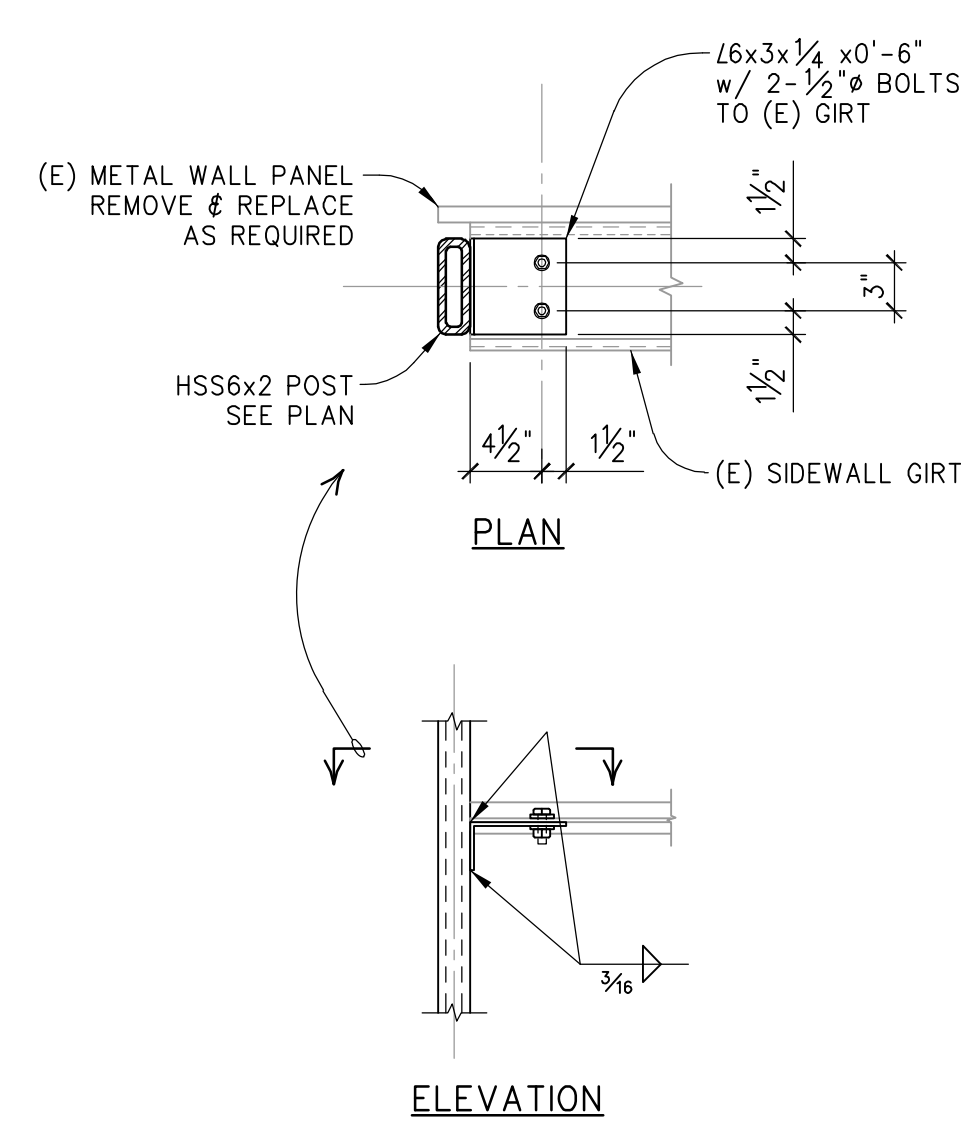
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SHEET NUMBER
S3.01



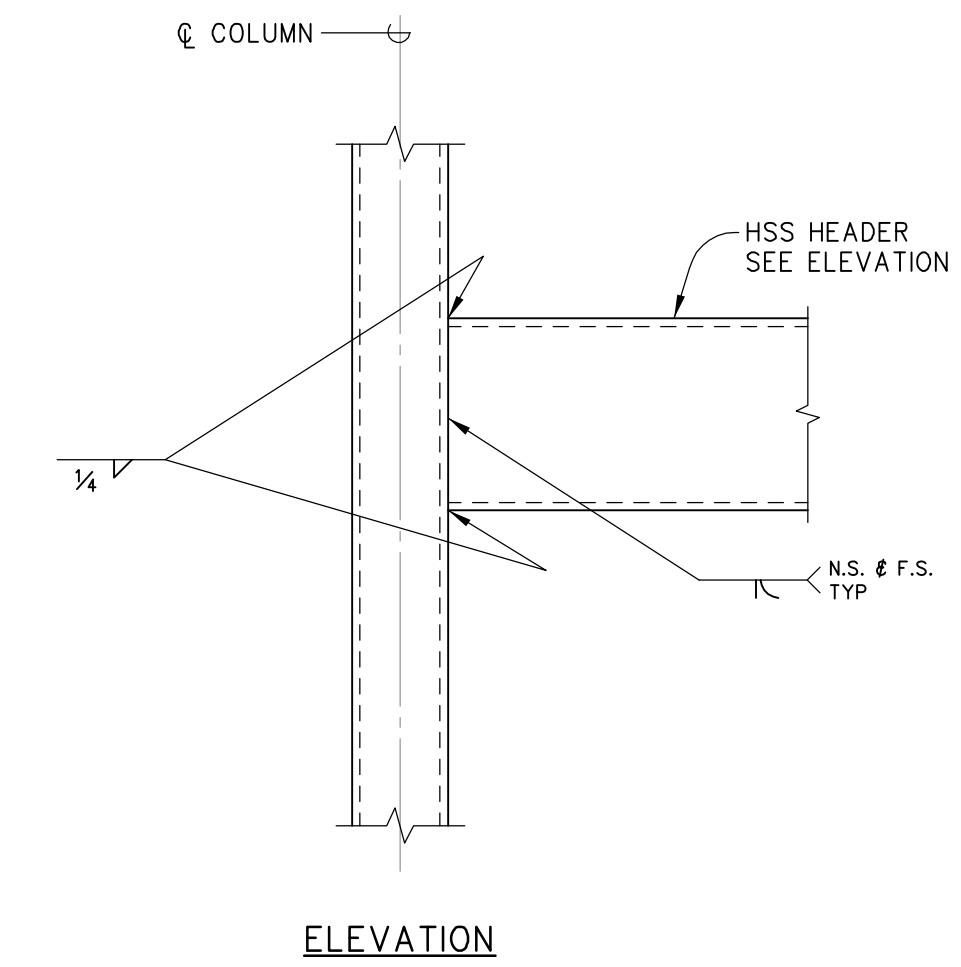
ELEVATION

SCALE: 1/2" = 1'-0" 1
KPF K0000 S3.02



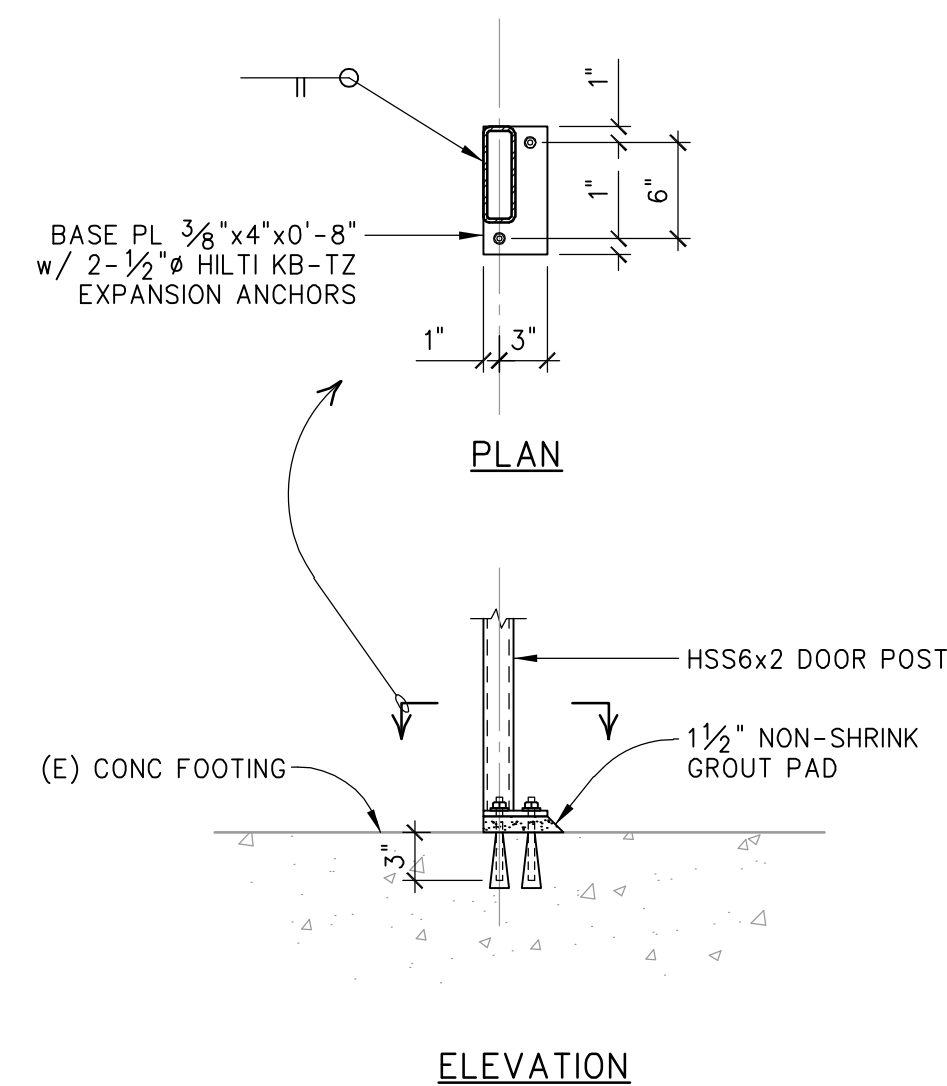
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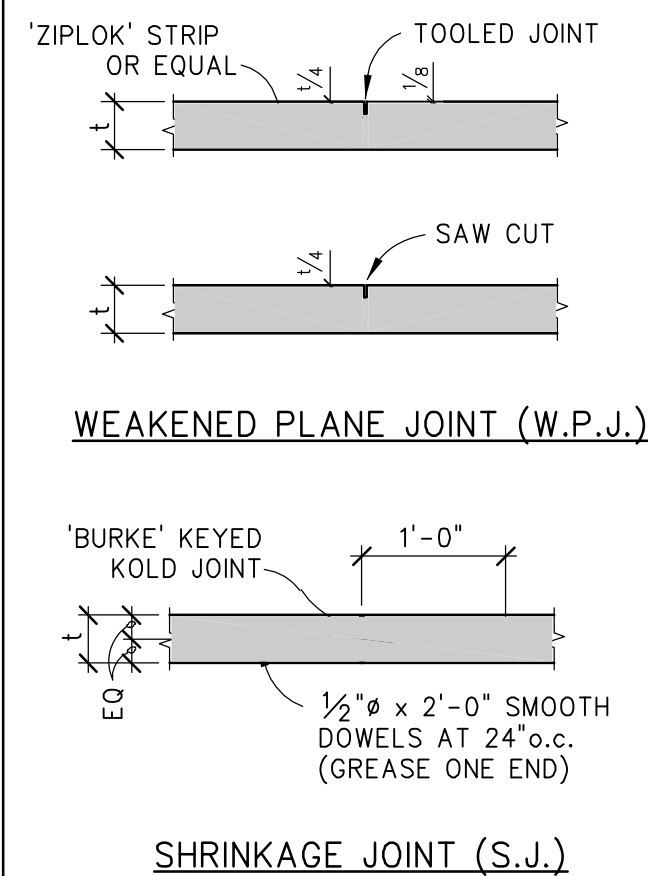
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DETAIL

SCALE: 1" = 1'-0" 4
KPF K0000 S3.02



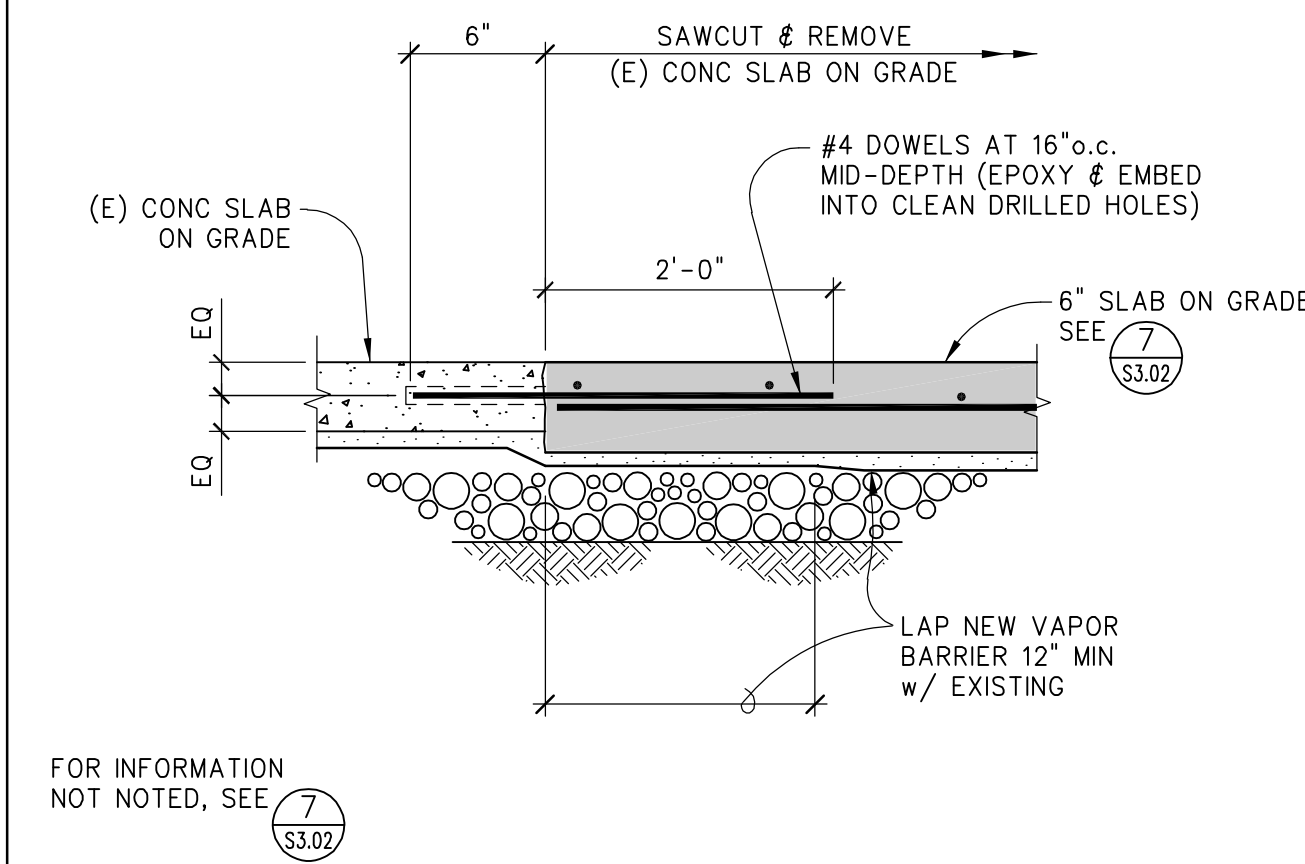
S.O.G. CONTROL JOINTS

SCALE: NONE 5
KPF K1035 S3.02

- NOTES:
- FOR SLAB THICKNESS, REINFORCEMENT, AND CONTROL JOINT LOCATIONS, SEE PLAN.
 - LOCATE W.P.J. TO ENCLOSE APPROXIMATE SQUARE AREAS OF 600 SQ FT MAXIMUM.
 - LOCATE S.J. TO ENCLOSE APPROXIMATE AREAS OF 2,400 SQ FT MAXIMUM.
 - SHRINKAGE JOINTS (S.J.) MAY BE USED AS CONSTRUCTION JOINTS (C.J.) FOR SLABS ON GRADE, WHERE NEEDED.
 - WOOD EDGE FORM WITH BEVELED 1x KEYS x 12" LONG AT 24" o.c. MAY BE USED IN LIEU OF KEYED KOLD JOINTS.

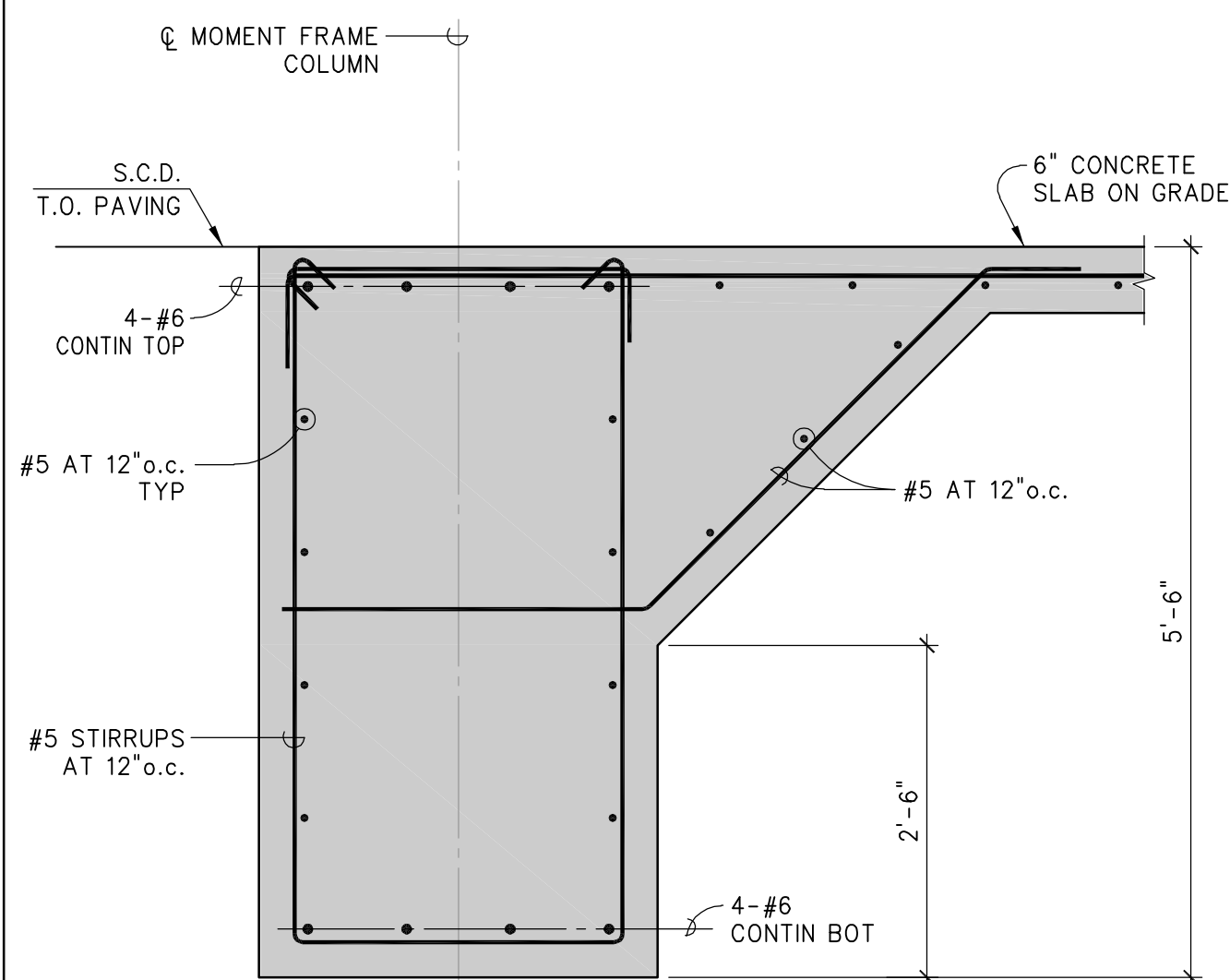
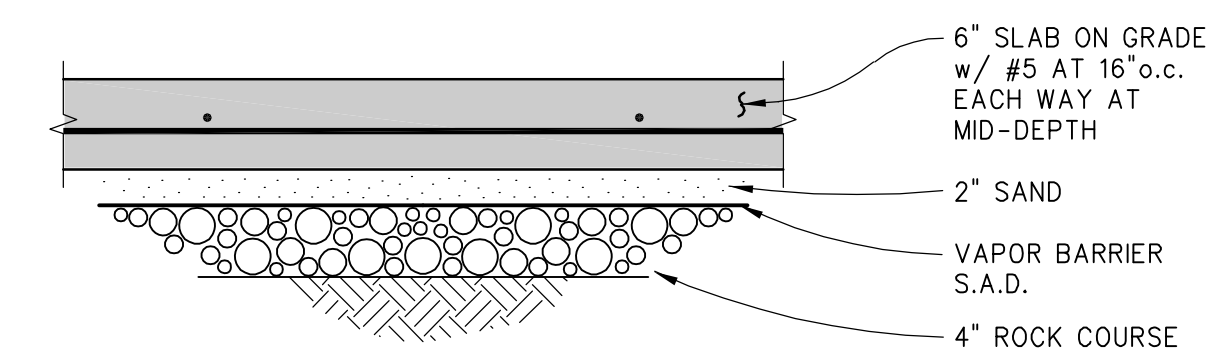
SLAB ON GRADE

SCALE: 3/4" = 1'-0" 6
KPF K1030 S3.02



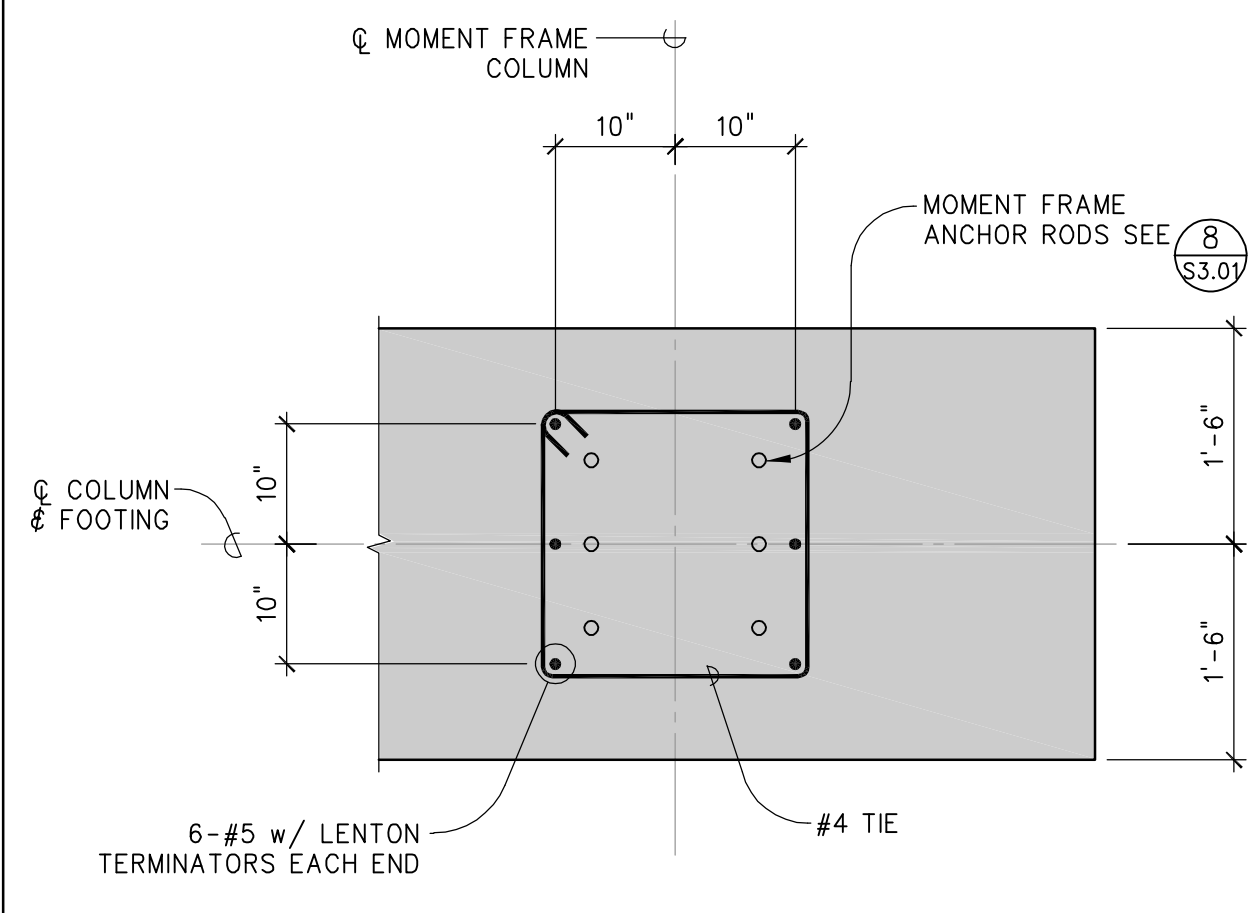
SLAB ON GRADE

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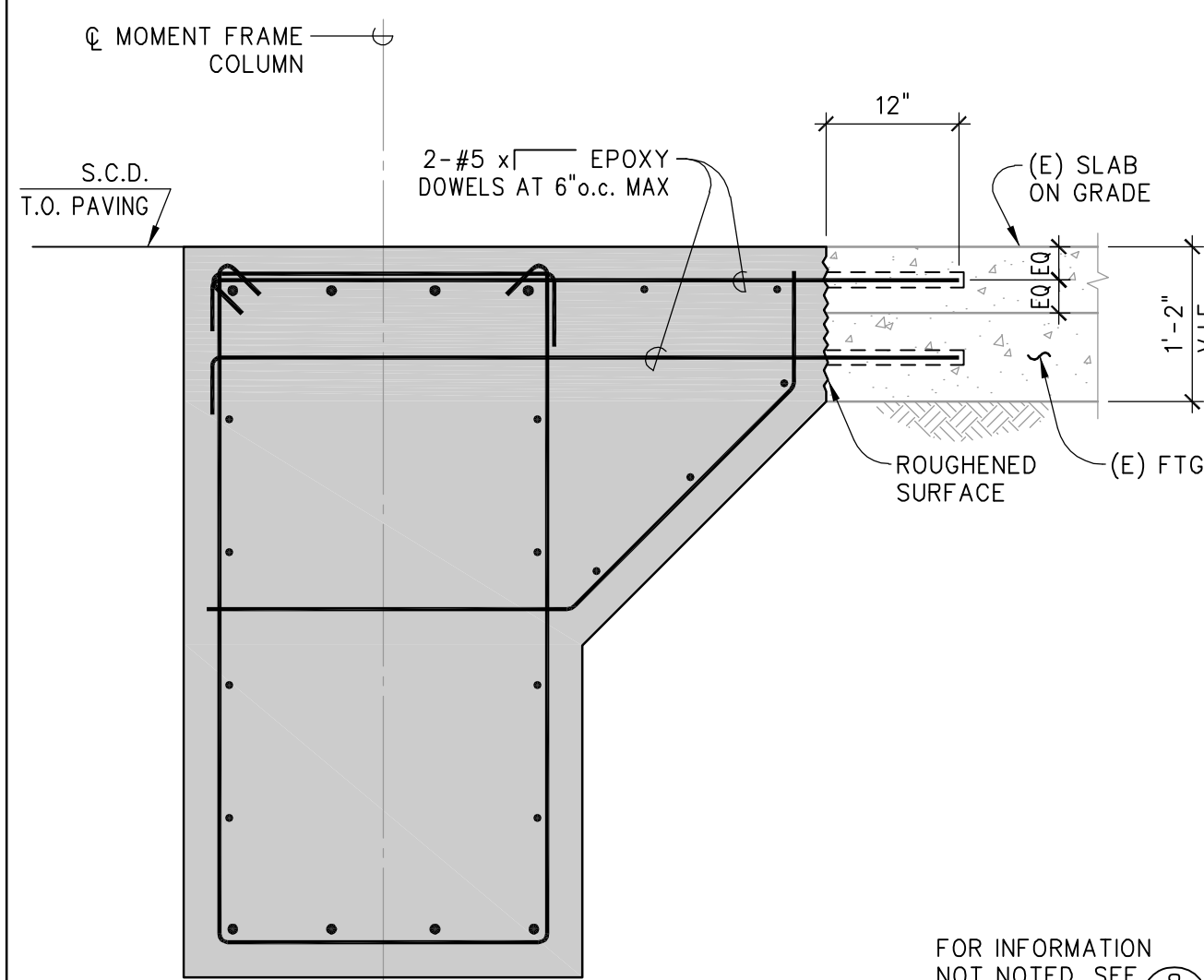
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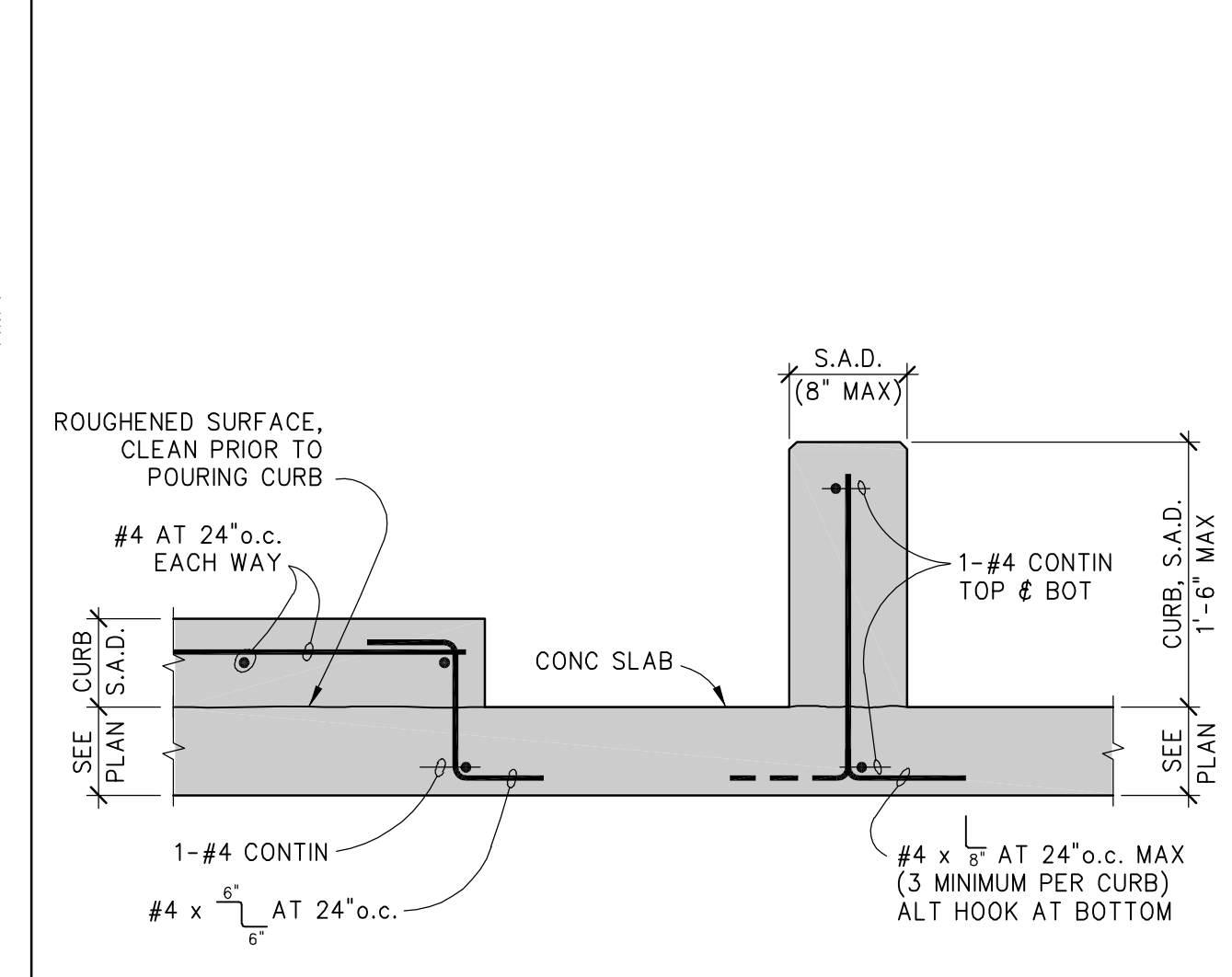
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SCALE: 3/4" = 1'-0" 9
KPF K0000 S3.02



SECTION

SCALE: 3/4" = 1'-0" 10
KPF K0000 S3.02



CURBS ON SLAB

SCALE: NONE 11
KPF K1060 S3.02

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San Mateo, CA 94402

SHEET TITLE
ELEVATIONS SECTIONS & DETAILS

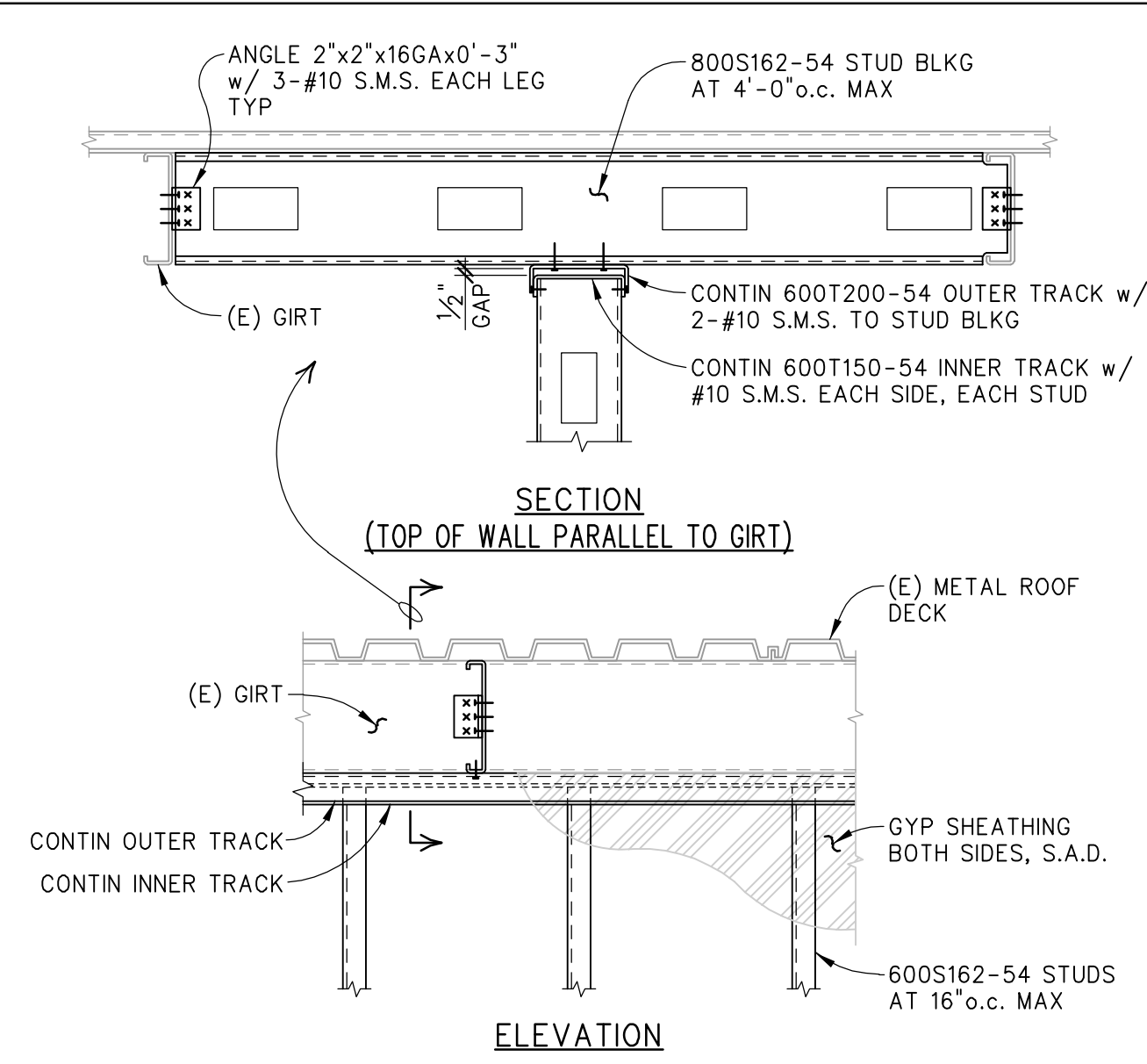
REVISIONS		
NO.	DATE	DESCRIPTION

DATE	FEBRUARY 04, 2011
DRAWN	RQM
CHECKED	DR/JMW
SCALE	
KPF JOB NO.:	K109013.00
SHEET NUMBER	

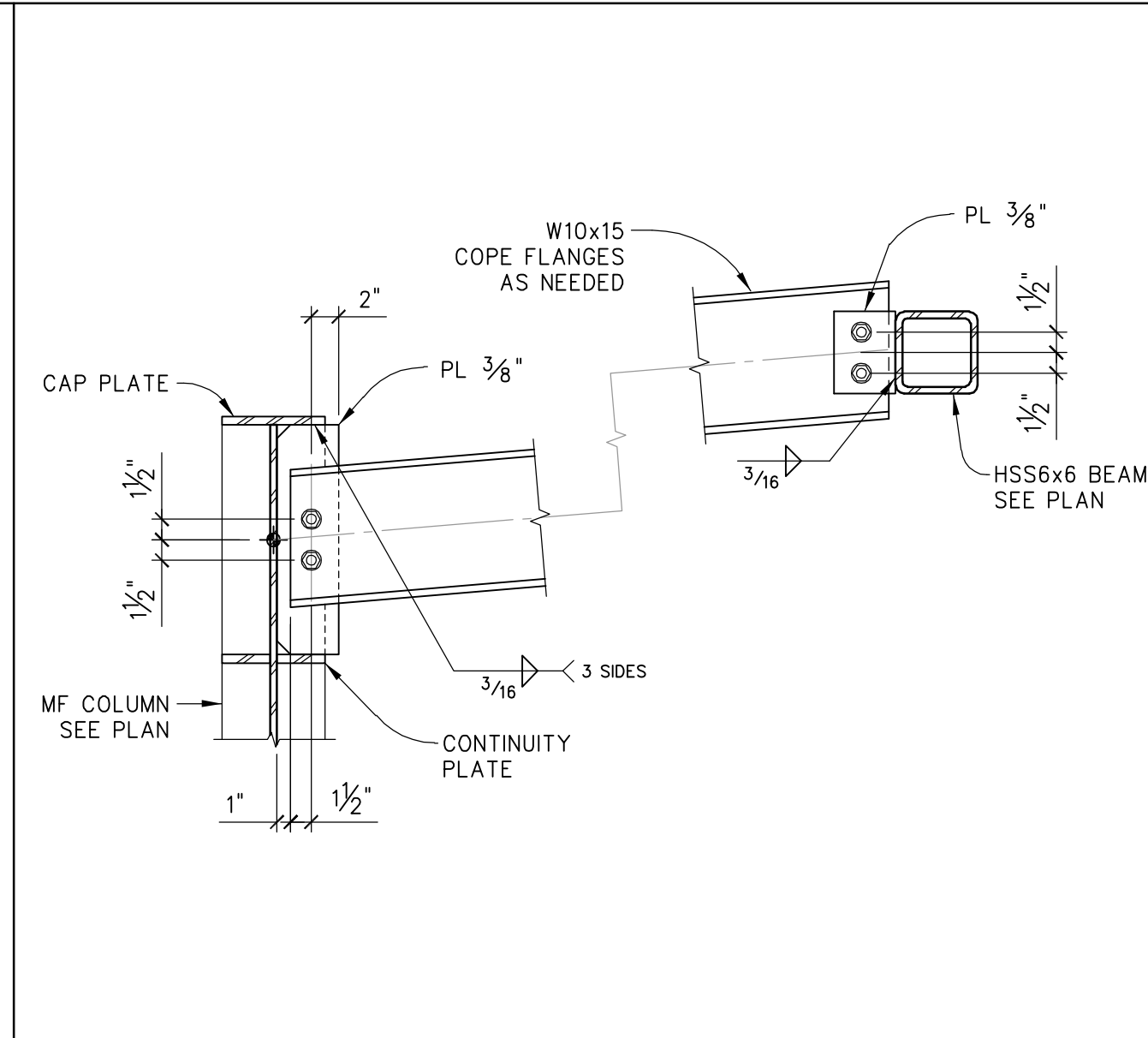
S3.02

Location: I:\099013-00\BL00-34\099013-34S1-02.dwg

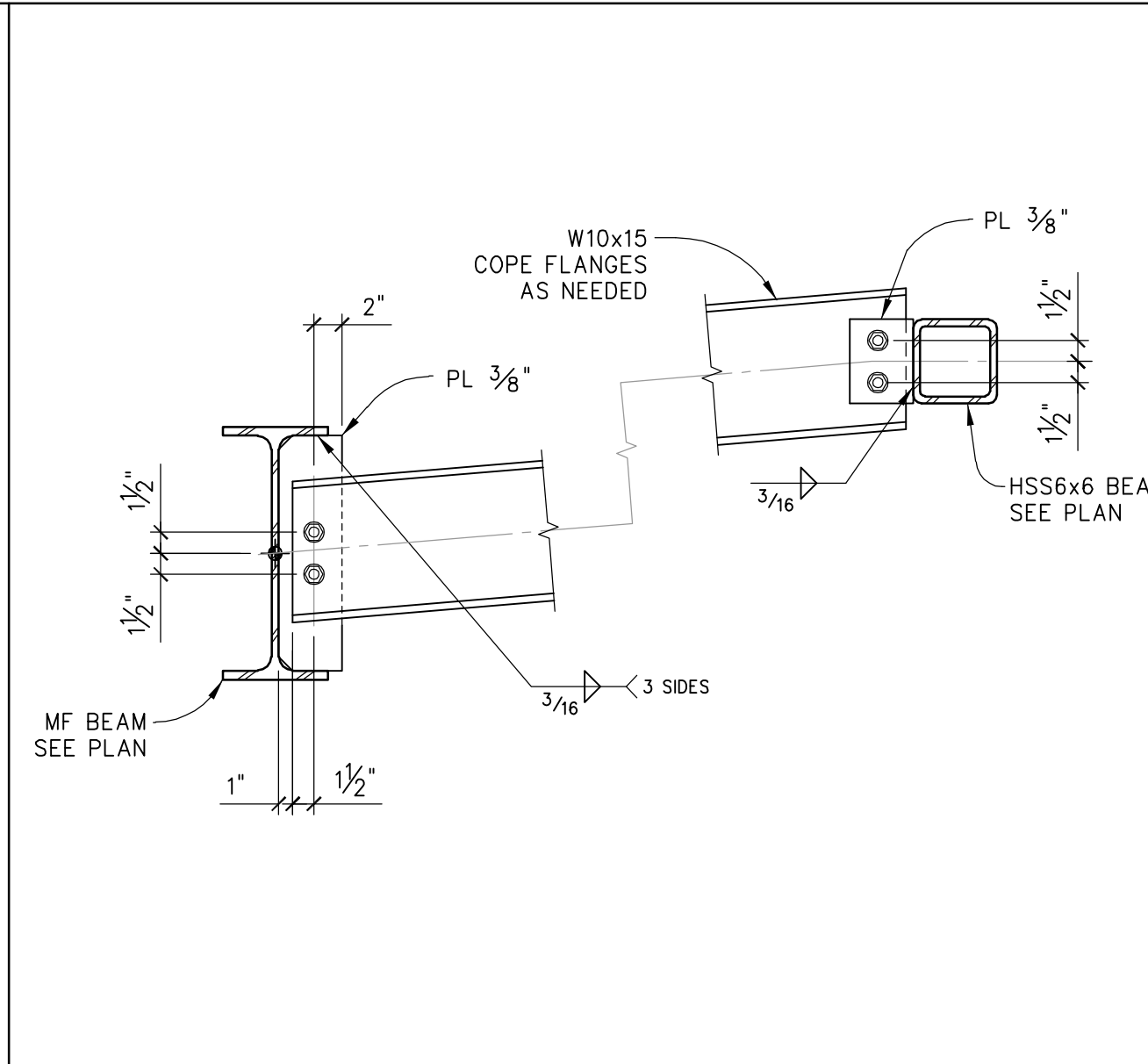
NO.	DATE	DESCRIPTION



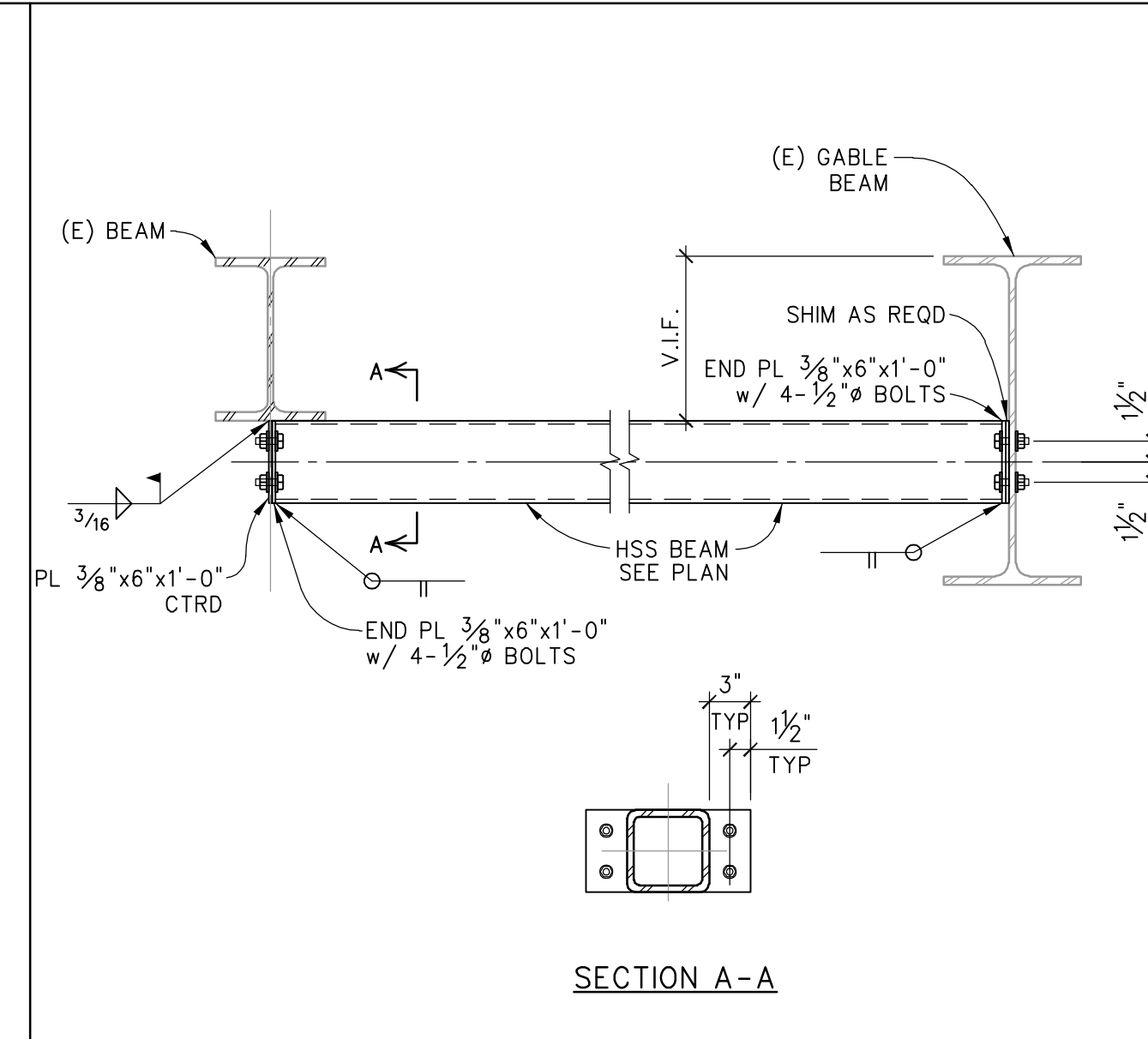
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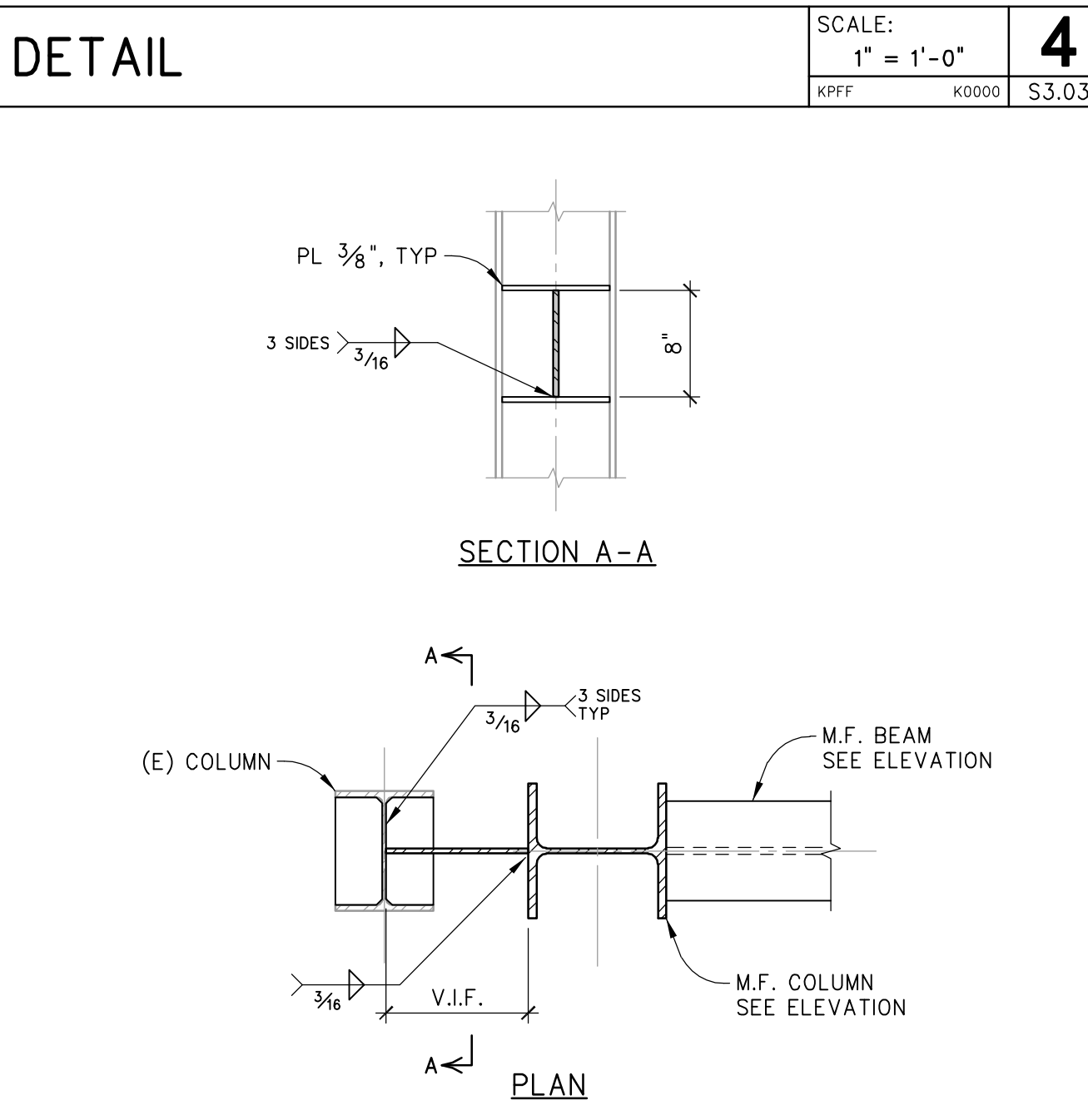
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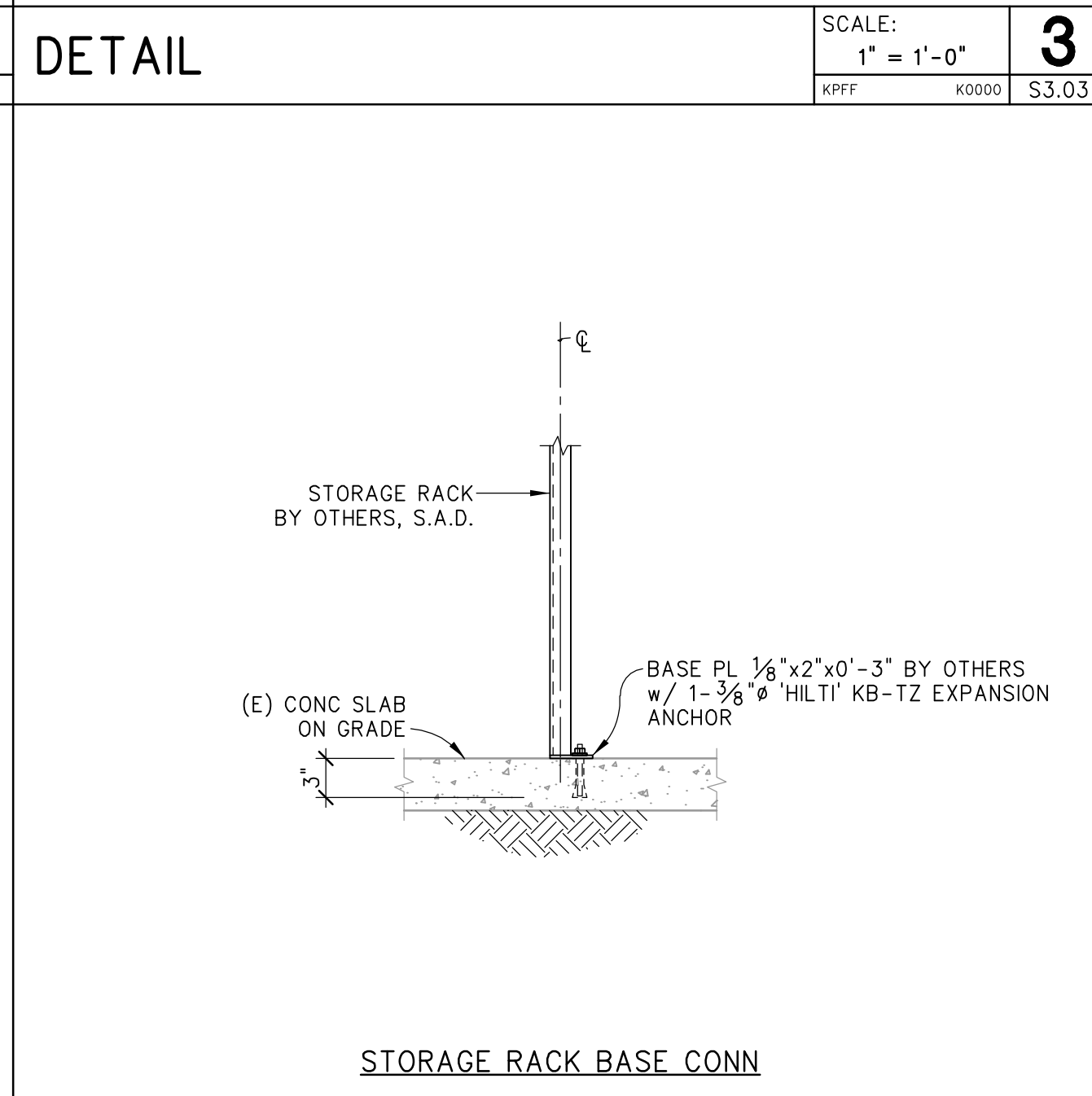
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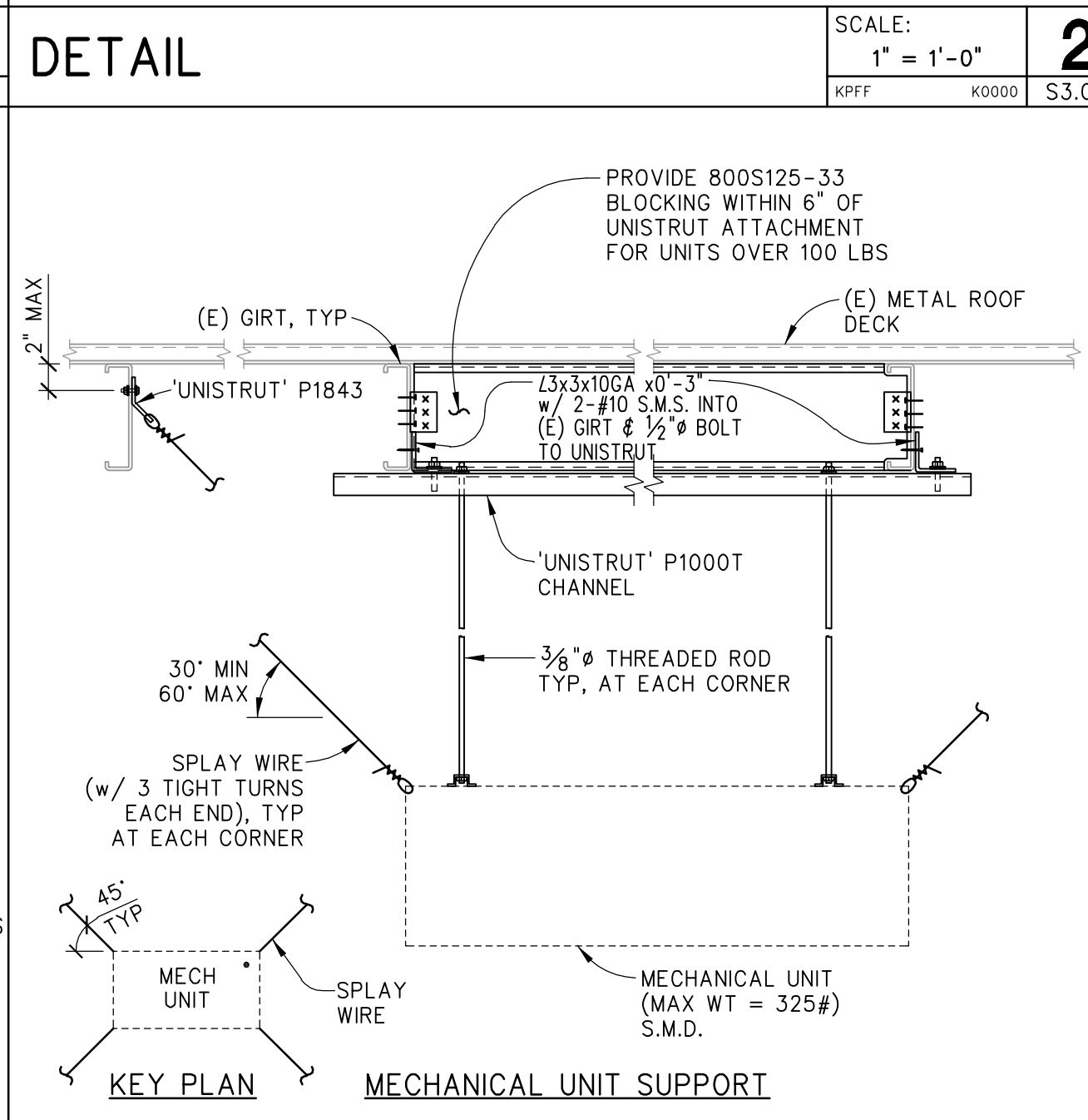
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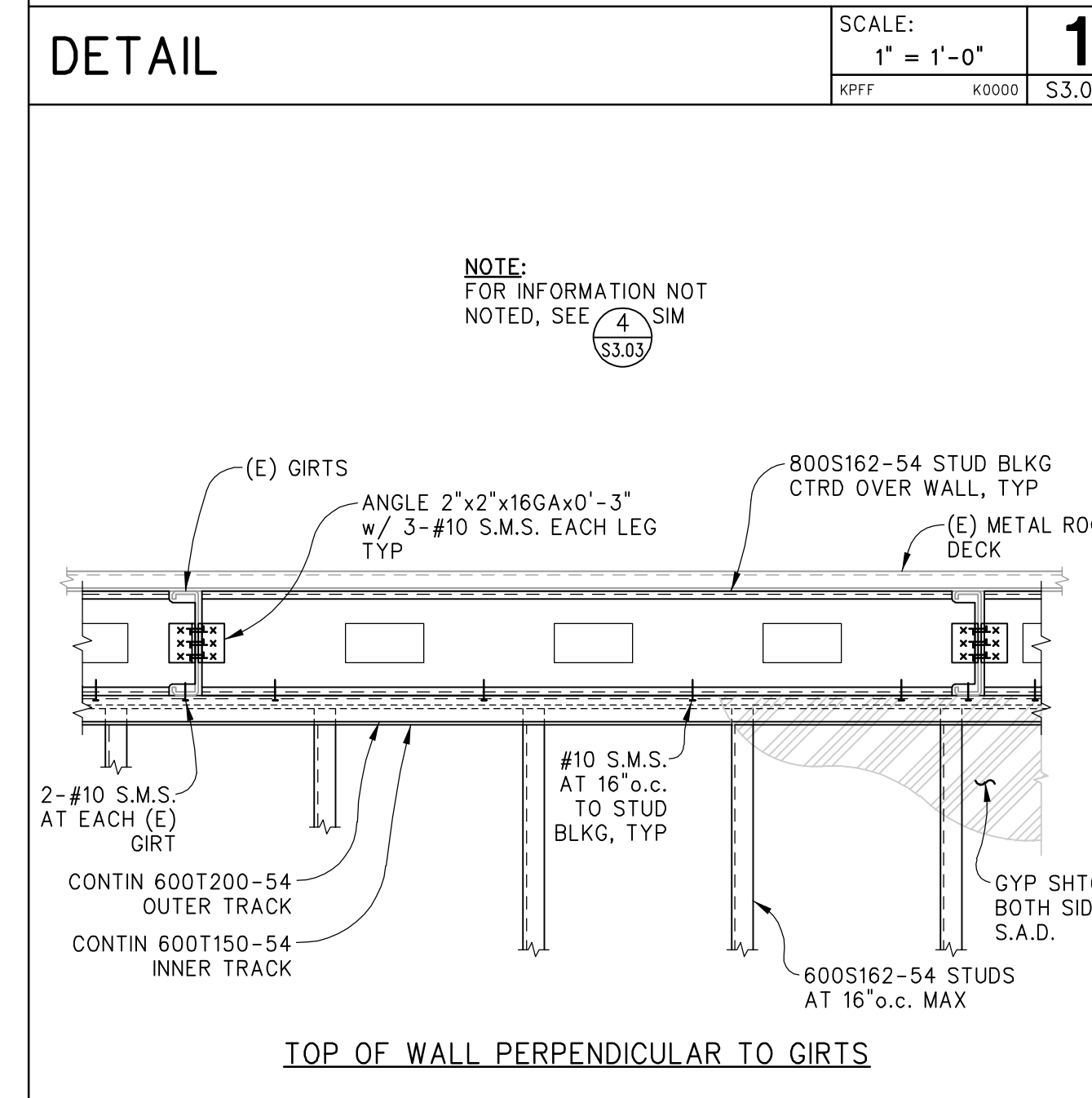
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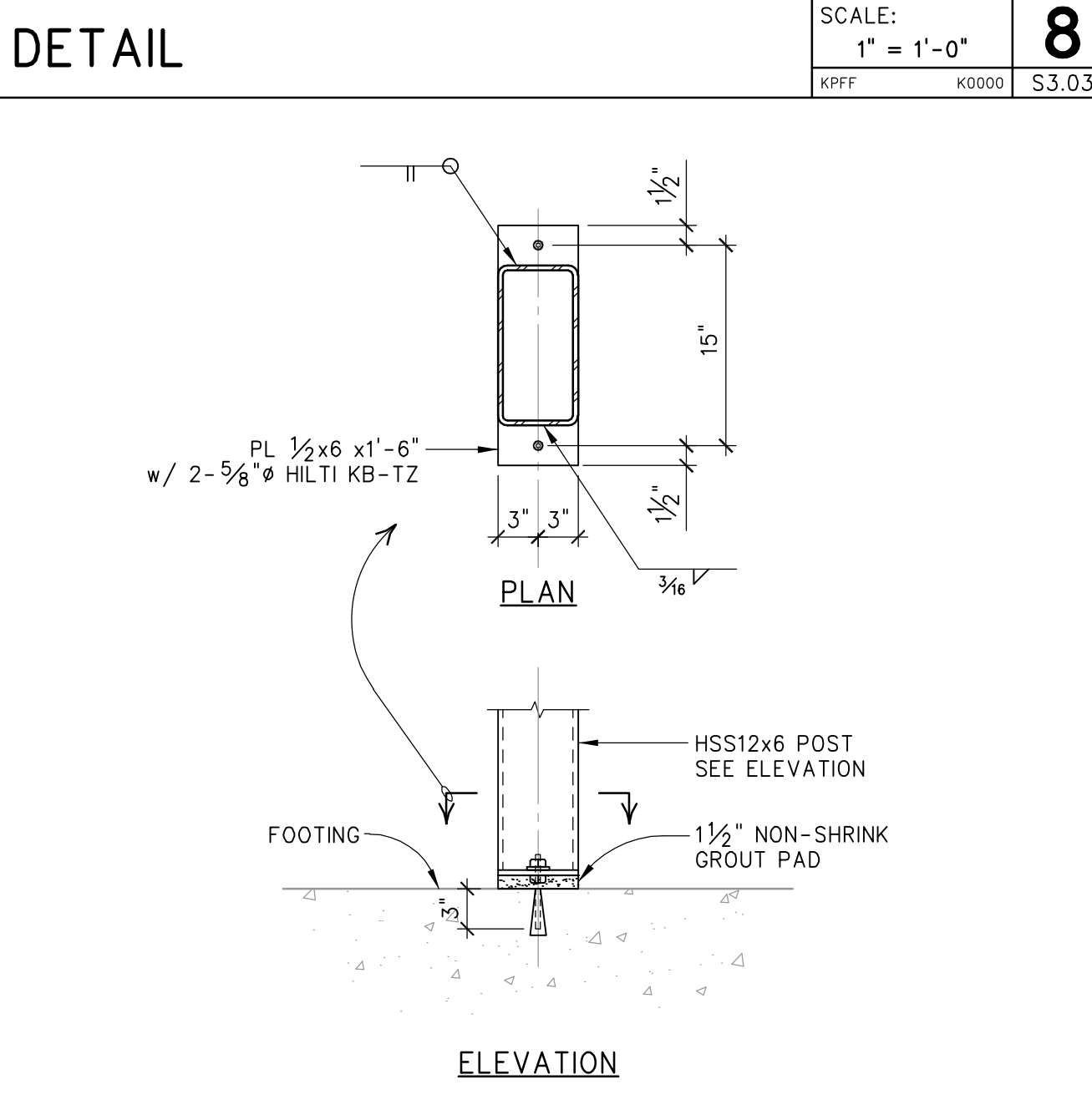
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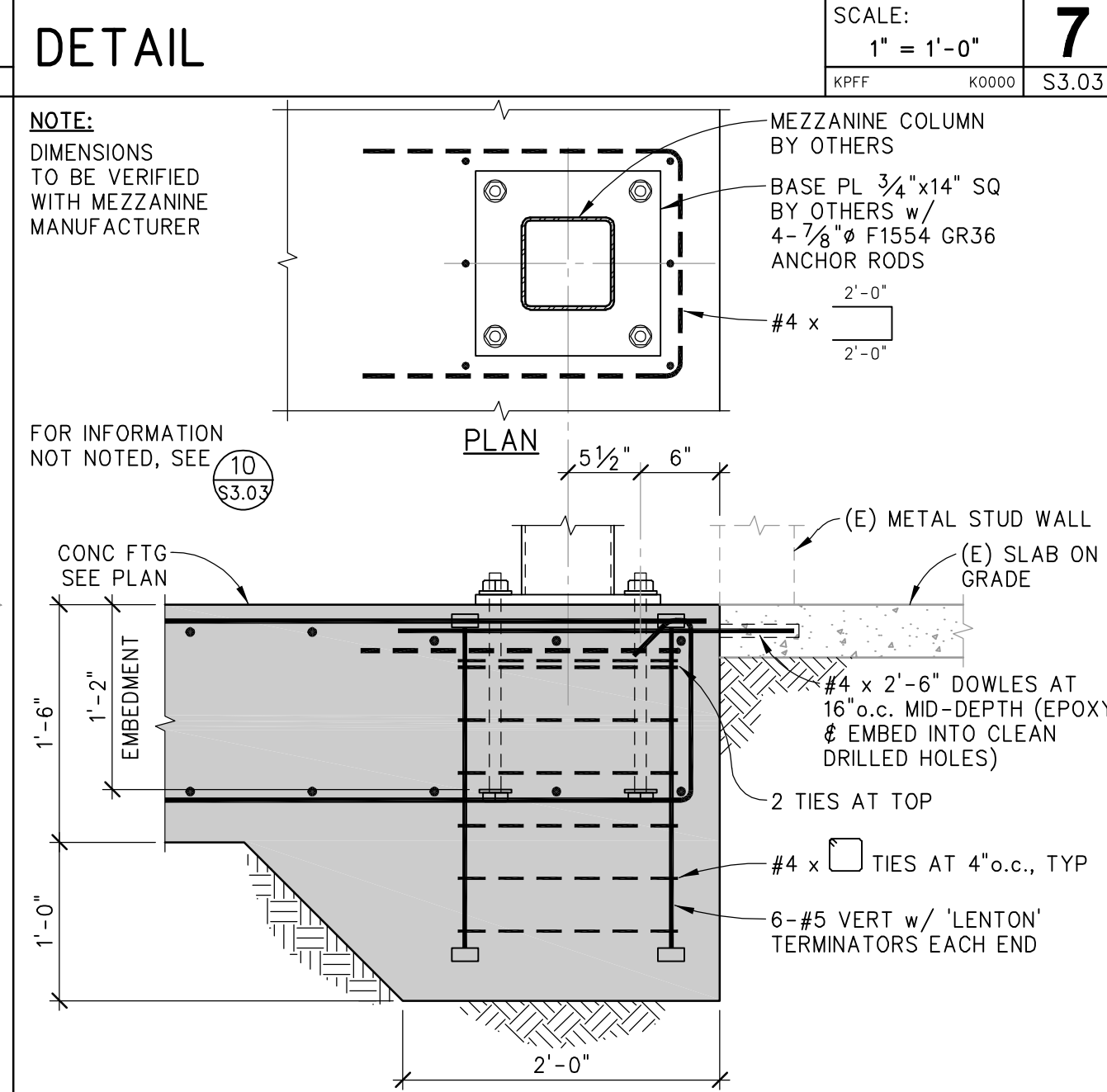
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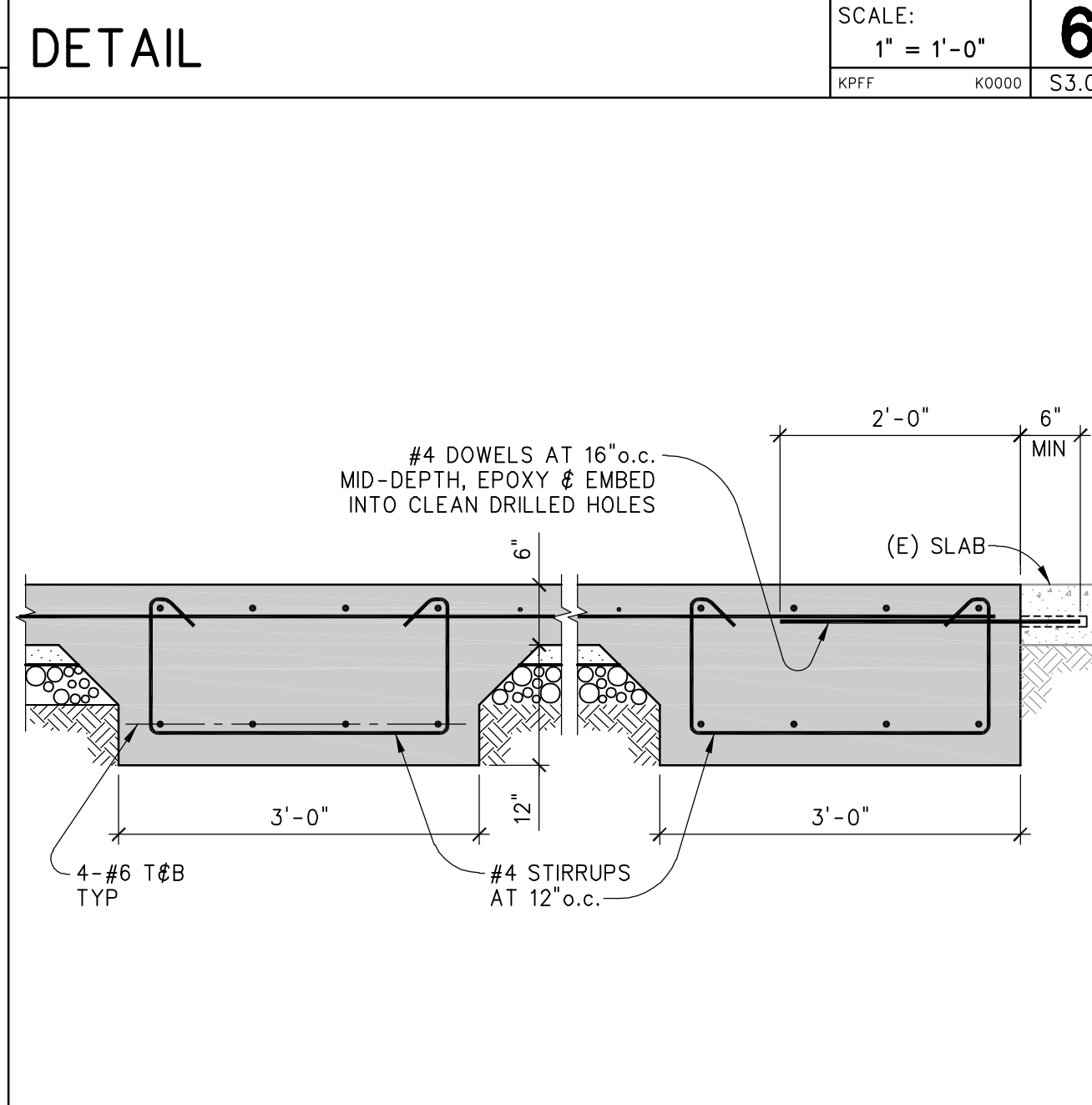
SCALE: 1" = 1'-0" 5



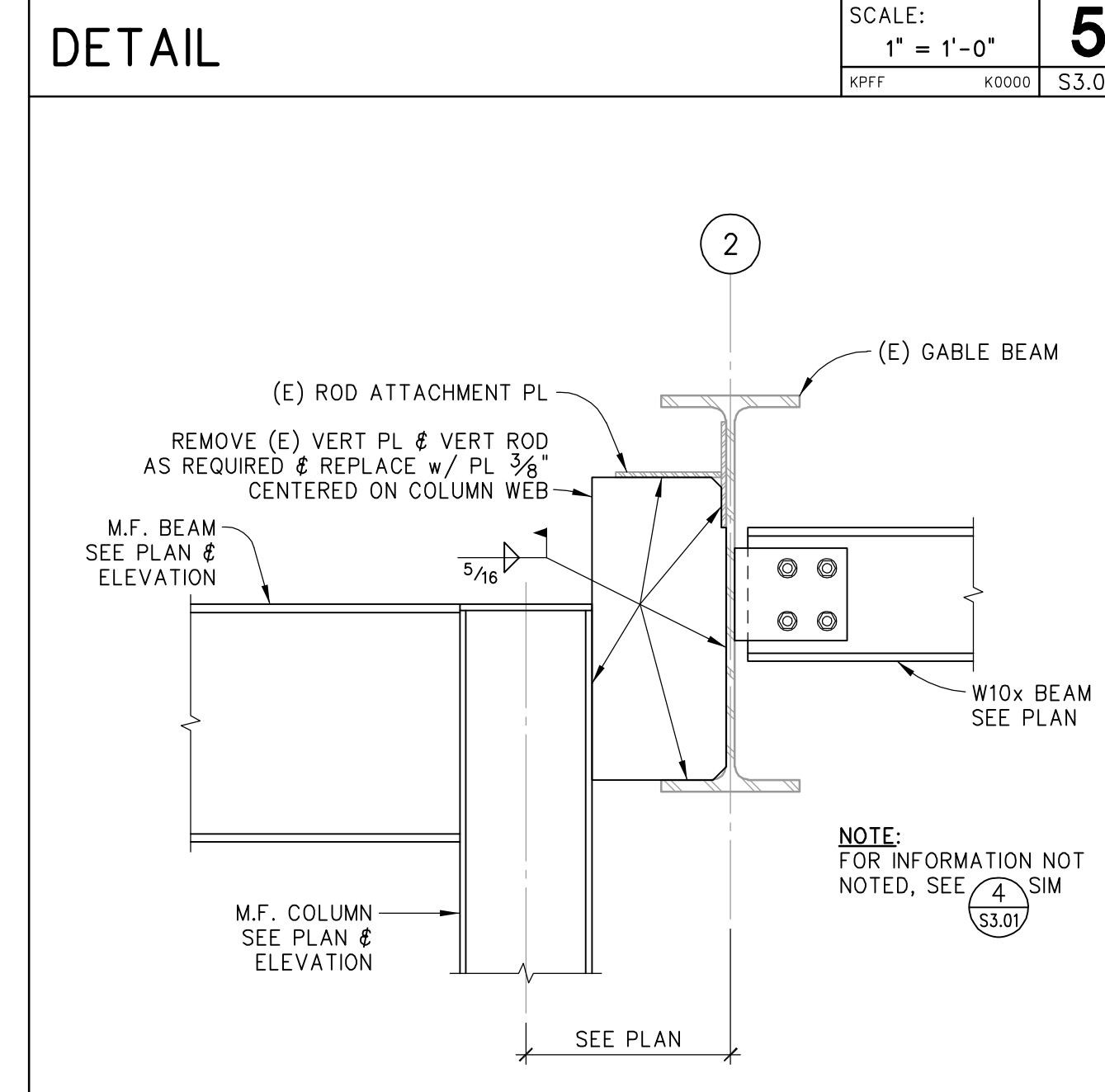
SCALE: 1" = 1'-0" 12



SCALE: 1" = 1'-0" 11



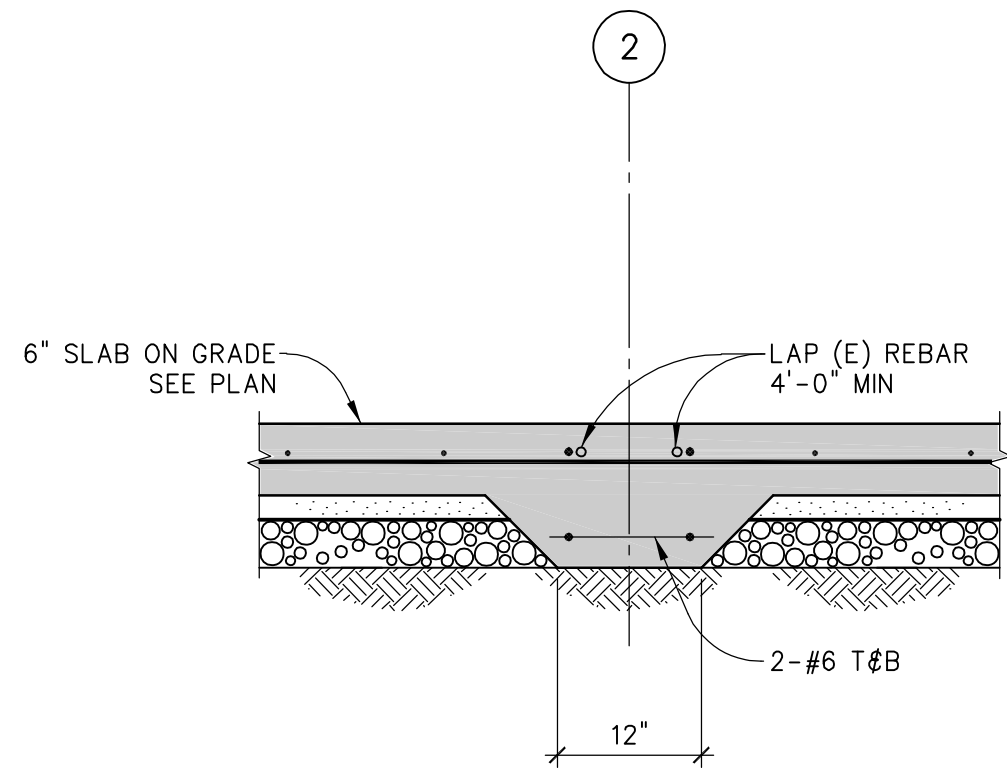
SCALE: 3/4" = 1'-0" 10



SCALE: 1" = 1'-0" 9

Location: I:\09013-00\BL00-34\09013-34S1-03.dwg

FOR INFORMATION NOT NOTED, SEE 7 (S3.02)

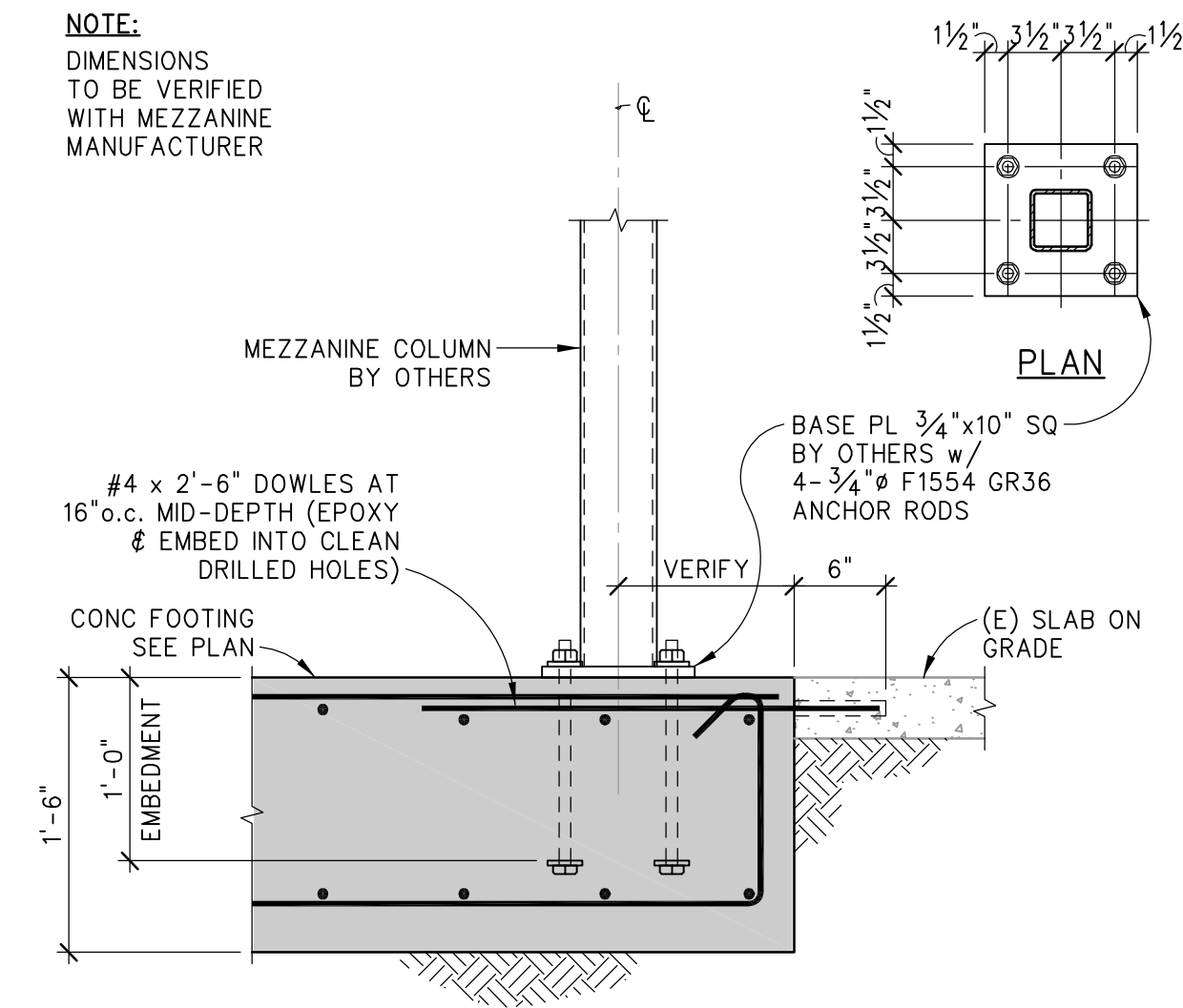


SECTION

SCALE: 3/4" = 1'-0" 1

SECTION

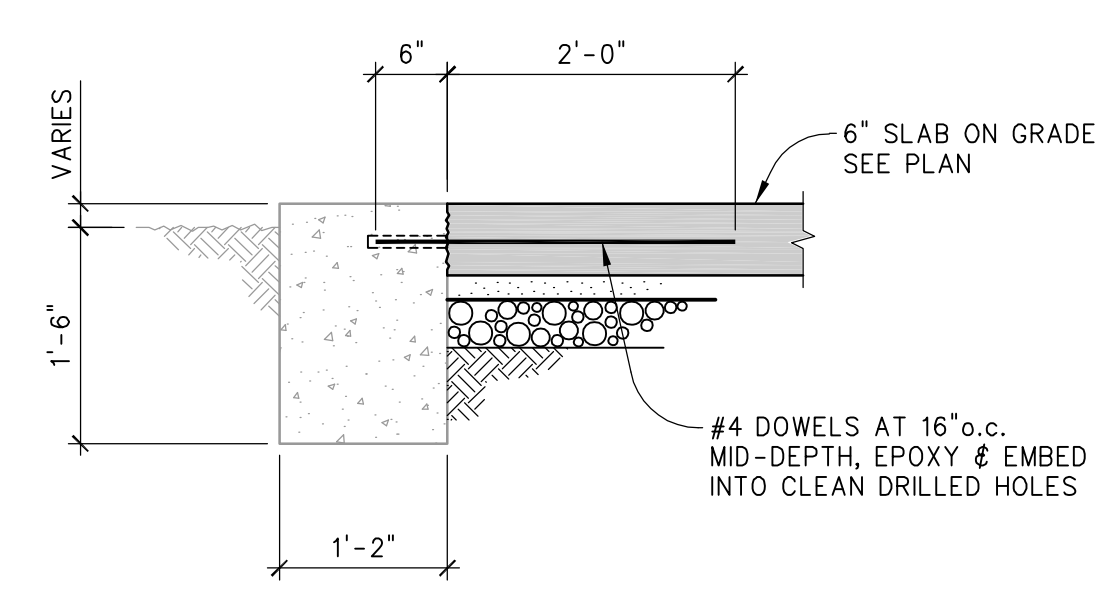
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NOTE: DIMENSIONS TO BE VERIFIED WITH MEZZANINE MANUFACTURER

SECTION

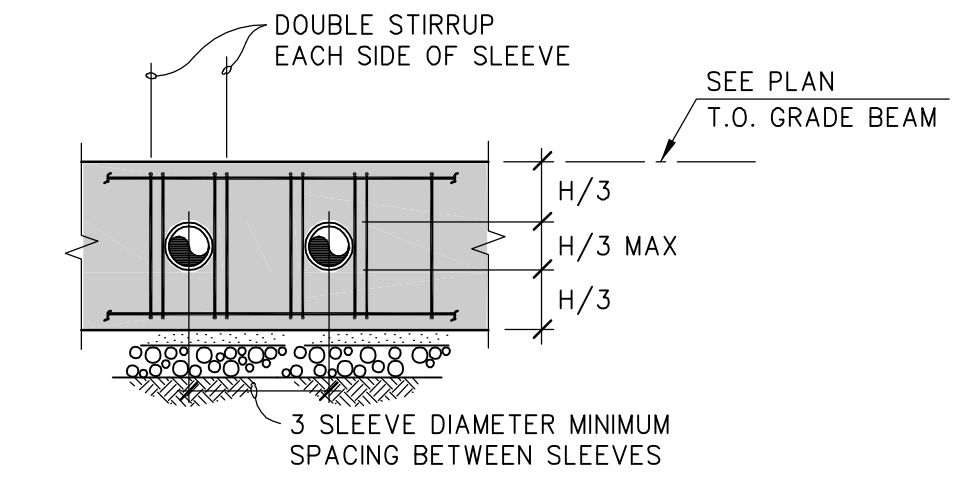
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FOR INFORMATION NOT NOTED, SEE 6 (S3.02)

DETAIL

SCALE: NONE 4

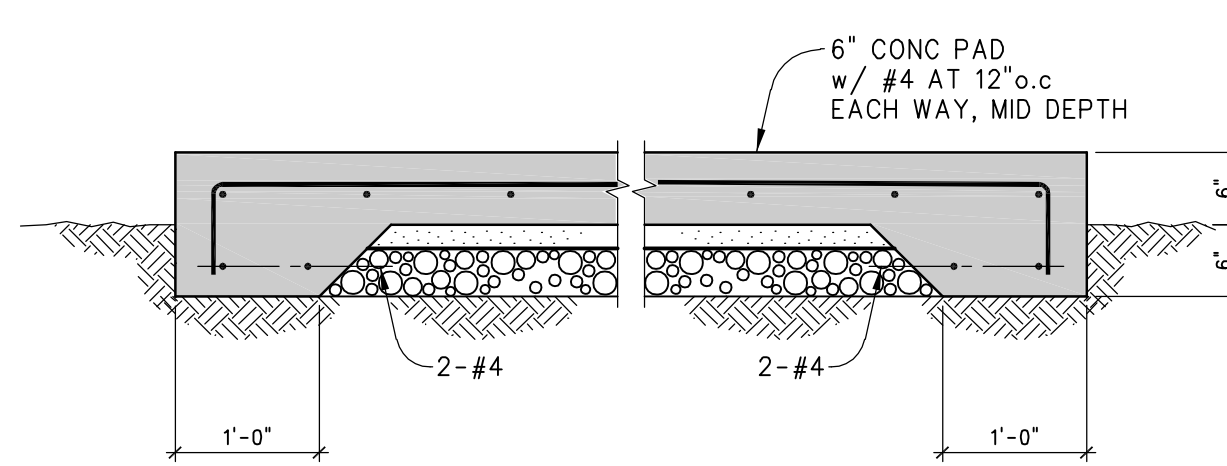


PIPE PENETRATION ALLOWED WITHIN MIDDLE THIRD OF G.B.

- DO NOT CUT OR INTERRUPT G.B. REINF.
- MAX OUTER DIAMETER FOR SLEEVES IS H/3.
- FOR SIZE AND LOCATION & ANCHORAGE OF PIPES S.P.D., S.E.D., S.A.D., S.M.D.
- LENGTH OF SLEEVE = WIDTH OF G.B.

○ = PIPE WITH SCHED 40 SLEEVE 1" CLEAR ALL AROUND

TYPICAL PIPES AND SLEEVES THRU FOOTINGS



SECTION

SCALE: 3/4" = 1'-0" 5

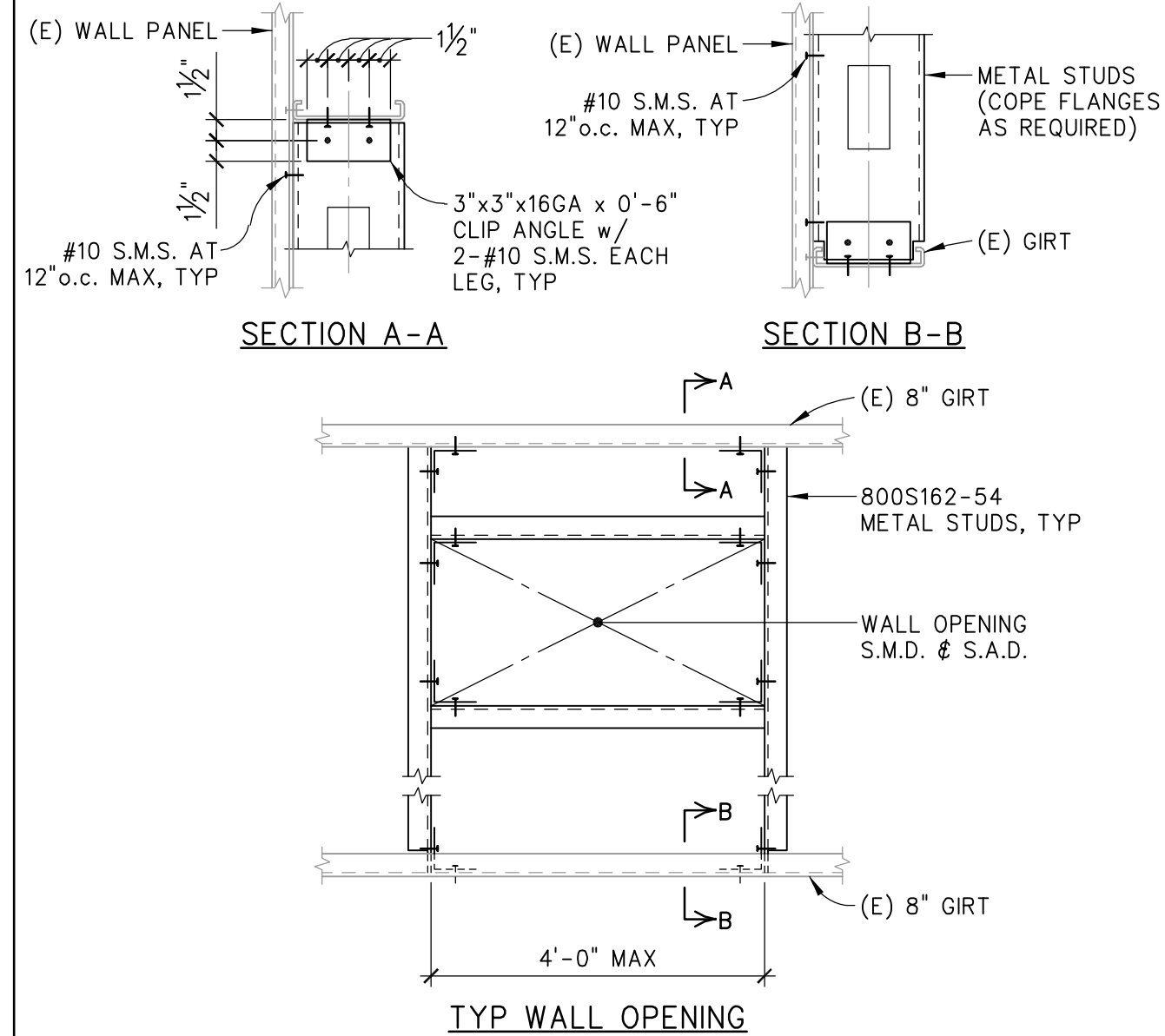
DETAIL

SCALE: 1" = 1'-0" 6



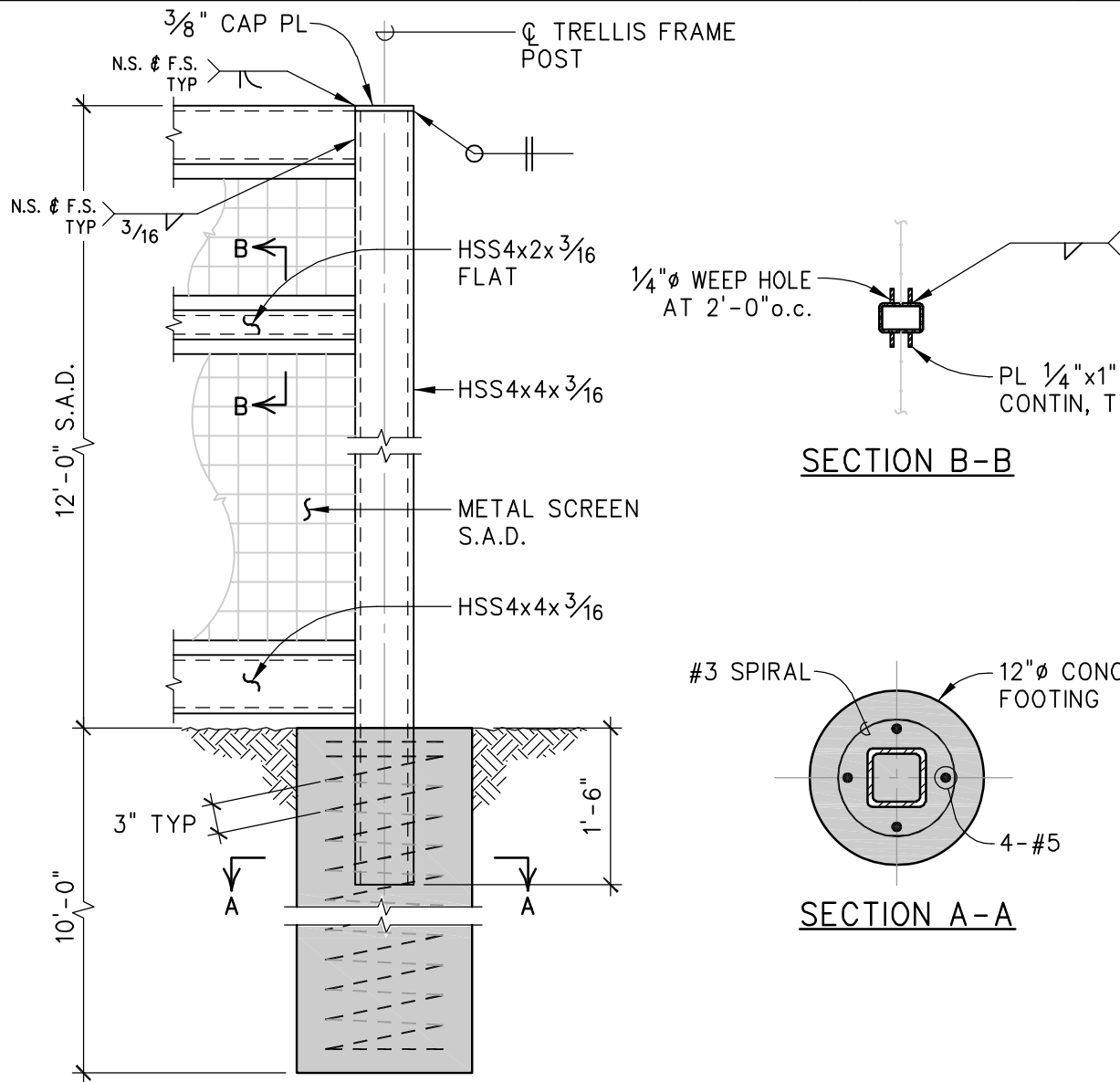
DETAIL

SCALE: 1" = 1'-0" 7



NOT USED

SCALE: NONE 8



DETAIL

SCALE: 1" = 1'-0" 9

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San Mateo, CA 94402

SHEET TITLE

SECTIONS & DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION

DATE FEBRUARY 04, 2011
DRAWN RQM
CHECKED DR/JMW
SCALE
KPFF JOB NO.: K109013.00
SHEET NUMBER

S3.04

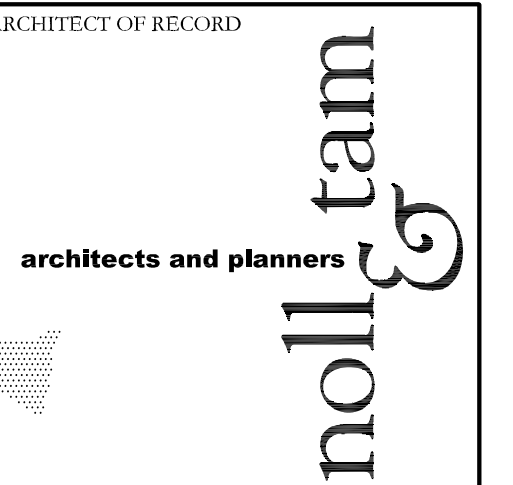
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College of San Mateo

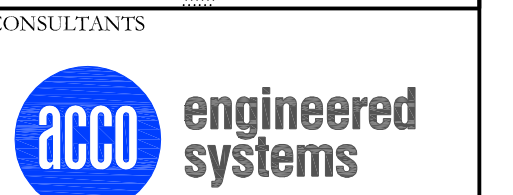
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THE WITHIN DESIGN IS EXCLUSIVELY OWNED
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AND/OR CONTROLS SYSTEMS.

HVAC LEGEND

DUCT SYMBOL LEGEND		DUCT SYMBOL LEGEND		PIPING SYMBOL LEGEND		ABBREVIATIONS							
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBRV.	DESCRIPTION	ABBRV.	DESCRIPTION	ABBRV.	DESCRIPTION	ABBRV.	DESCRIPTION
(N) [Symbol] (E)	NEW(N) & EXISTING(E) RECTANGULAR SUPPLY AIR DUCT RISER	[Symbol]	MANUAL VOLUME DAMPER	[Symbol]	AUTOMATIC AIR VENT	ABV.	ABOVE	GA.	GAUGE	S.A.	SUPPLY AIR	UBC	UNIFORM BUILDING CODE
(N) [Symbol] (E)	NEW(N) & EXISTING(E) RECTANGULAR RETURN AIR DUCT RISER	[Symbol]	MECH. CONTR. TO PROVIDE EQUIPMENT & INSTALLATION (U.N.O.)	[Symbol]	BALL VALVE	A/C	AIR CONDITIONING	G.C.	GENERAL CONTRACTOR	SAG	SUPPLY AIR GRILLE	U.C.	UNDER CUT
(N) [Symbol] (E)	NEW(N) & EXISTING(E) RECTANGULAR EXHAUST AIR DUCT RISER	[Symbol]	MOTORIZED DAMPER (ELECTRIC)	[Symbol]	BUTTERFLY VALVE	A.D.	ACCESS DOOR	G.I.	GALVANIZED IRON	SAR	SUPPLY AIR REGISTER	U.G.	UNDER GROUND
(N) [Symbol] (E)	NEW(N) & EXISTING(E) ROUND AIR DUCT RISER	[Symbol]	MOTORIZED DAMPER (PNEUMATIC)	[Symbol]	BLIND FLANGE	A.F.F.	ABOVE FINISHED FLOOR	G.V.	GATE VALVE	S.D.	SMOKE DETECTOR	U.M.C.	UNIFORM MECHANICAL CODE
[Symbol]	NEW SINGLE & DOUBLE LINE RECTANGULAR OR ROUND DUCT	[Symbol]	POINT OF CONNECTION	[Symbol]	CHECK VALVE	A.P.	ACCESS PANEL	GEN.	GENERAL	SHT.	SHEET	U.N.O.	UNLESS NOTED OTHERWISE
[Symbol]	EXISTING SINGLE & DOUBLE LINE RECTANGULAR OR ROUND DUCT	[Symbol]	RETURN AIR GRILLE (NEW & EXISTING - 24x24 PANEL)	[Symbol]	CIRCUIT SETTER	APPROX. & @	APPROXIMATE AND AT	GPH	GALLONS PER HOUR	S.I.	SOUND INSULATION	U.T.R.	UP THROUGH ROOF
[Symbol]	EXISTING DUCTWORK TO BE DEMOLISHED	[Symbol]	RETURN AIR REGISTER (NEW & EXISTING - SURF. MTD.)	[Symbol]	DRAIN (ROOF, FLOOR)	BD.	BOARD	GPM	GALLONS PER MINUTE	S.M.	SHEET METAL	V.	VENT
[Symbol]	SINGLE & DOUBLE LINE DUCTWORK WITH TRANSITIONAL FITTING	[Symbol]	RETURN AIR GRILLE - 24x12 (NEW & EXISTING - T-BAR CEIL'G.)	[Symbol]	END CAP	B.D.D.	BACKDRAFT DAMPER	H.O.A.	HAND-OFF-AUTO	S.O.	SQUARE	V.V.	VARIABLE AIR VOLUME
[Symbol]	SQUARE TO ROUND TRANSITIONAL FITTING	[Symbol]	REVISION CLOUD	[Symbol]	FLOW SWITCH	B.F.	BOTTOM FLAT	HR.	HOUR	S.S.	STAINLESS STEEL	VLV.	VALVE
[Symbol]	SQUARE TO OVAL TRANSITIONAL FITTING	[Symbol]	REVISION DELTA	[Symbol]	GATE VALVE	B.F.V.	BUTTERFLY VALVE	HWR	HOT WATER RETURN	STD.	STANDARD	VSD.	VARIABLE SPEED DRIVE
[Symbol]	90° RADIUS ELBOW (1) . 90° SQUARE ELBOW WITH TURNING VANES (2)	[Symbol]	ROUND CEILING DIFFUSER (NEW & EXISTING)	[Symbol]	FLEXIBLE CONNECTION	B.O.D.	BOTTOM OF DUCT	HWS	HOT WATER SUPPLY	STRUCT.	STRUCTURAL	VOL.	VOLUME
[Symbol]	ROUND DUCT TURNING DOWN (1) . RECT. DUCT TURNING DOWN (2)	[Symbol]	SECTION NUMBER SECTION CALL OUT SYMBOL SHEET NUMBER	[Symbol]	FLOW CONTROL	B.O.P.	BOTTOM OF PIPE	I.D.	INSIDE DIMENSION	SUSP	SUSPENDED	WMS	WIRE MESH SCREEN
[Symbol]	AIR TIGHT (DOOR, SHAFT, ETC.) BY OTHERS.	[Symbol]	SUPPLY AIR GRILLE (NEW & EXISTING - 24x24 PANEL)	[Symbol]	PETE'S PLUG	B.V.	BALL VALVE	IN.	INCH	SW	SWITCH	WT.	WEIGHT
[Symbol]	BACK DRAFT DAMPER	[Symbol]	SUPPLY AIR REGISTER (NEW & EXISTING - SURF. MTD.)	[Symbol]	PIPE (NEW)	BLDG.	BUILDING	(L)	LINED	SWG	SIDE WALL GRILLE		
[Symbol]	CEILING OR DUCT ACCESS PANEL OR DOOR	[Symbol]	SMOKE DETECTOR (AREA TYPE)	[Symbol]	PIPE (EXISTING)	BTM.	BOTTOM	L	LONG	SWR	SIDE WALL REGISTER		
[Symbol]	CENTER LINE	[Symbol]	SMOKE DETECTOR (DUCT TYPE)	[Symbol]	PRESSURE GAUGE WITH COCK	CLG	CEILING	LBS.	POUNDS				
[Symbol]	DETAIL CALL OUT SYMBOL SHEET NUMBER	[Symbol]	SIDE WALL REGISTER, GRILLE	[Symbol]	REDUCER	CFM	CUBIC FEET PER MINUTE	L.D.	LINEAR DIFFUSER	M.A.	MIXED AIR		
[Symbol]	EXHAUST AIR GRILLE (NEW & EXISTING - 24x24 PANEL)	[Symbol]	WALL SWITCH BY ELECTRICIAN	[Symbol]	STRAINER	CH.V.	CHECK VALVE	M.	MAXIMUM	MAX.	MAXIMUM		
[Symbol]	EXHAUST AIR REGISTER (NEW & EXISTING - SURF. MTD.)	[Symbol]	THERMOSTAT WITH ZONE NUMBER	[Symbol]	STRAINER W/DRAIN VALVE AND HOSE ADAPTER	CHWS	CHILLED WATER RETURN	M.D.	MOTORIZED DAMPER	M.ECH.	MECHANICAL		
[Symbol]	ELECT. CONN. LOCATION TO EQUIP. (APPROX.) BY ELECT. CONTR.	[Symbol]	TRANSFER AIR GRILLE (NEW & EXISTING - SURF. MTD.)	[Symbol]	TEMPERATURE SENSOR WELL	CMU	CONCRETE MASONRY UNIT	MFR.	MANUFACTURER	M.FR.	MANUFACTURER		
[Symbol]	EQUIPMENT TAG LABEL	[Symbol]	TRANSFER AIR REGISTER (NEW & EXISTING - SURF. MTD.)	[Symbol]	THERMOMETER	CONC.	CONCRETE	MIN.	MINIMUM	MISC.	MISCELLANEOUS		
[Symbol]	FIRE DAMPER (SINGLE LINE AND DOUBLE LINE)	[Symbol]	TRANSFER AIR REGISTER (NEW & EXISTING - SURF. MTD.)	[Symbol]	TRIPLE DUTY VALVE	CONN.	CONNECTION	M.U.A.	MAKE UP AIR	M.V.D.	MANUAL VOLUME DAMPER		
[Symbol]	FIRE/SMOKE DAMPER (SINGLE LINE AND DOUBLE LINE)	[Symbol]	TRANSFER AIR REGISTER (NEW & EXISTING - SURF. MTD.)	[Symbol]	UNION	CONTR.	CONTRACTOR	(N)	NEW	N/A	NOT APPLICABLE		
[Symbol]	FIRE DAMPER LABEL	[Symbol]	TRANSFER AIR REGISTER (NEW & EXISTING - SURF. MTD.)	[Symbol]	VENT	CWR	CONDENSER WATER RETURN	N/A	NORMALLY CLOSED	NC	NORMALLY CLOSED		
[Symbol]	FIRE/SMOKE DAMPER LABEL	[Symbol]	TRANSFER AIR REGISTER (NEW & EXISTING - SURF. MTD.)	[Symbol]	VICTAULIC COUPLING (3)	CWS	CONDENSER WATER SUPPLY	N.I.C.	NOT IN CONTRACT	N.I.C.	NOT IN CONTRACT		
[Symbol]	FLEXIBLE DUCT	[Symbol]	TRANSFER AIR REGISTER (NEW & EXISTING - SURF. MTD.)	[Symbol]	WATER FLOW DIRECTION	COND.	CONDENSATE	NO	NORMALLY OPEN	NO	NORMALLY OPEN		
[Symbol]	LINEAR DIFFUSER (SUPPLY OR RETURN)	[Symbol]	TRANSFER AIR REGISTER (NEW & EXISTING - SURF. MTD.)	[Symbol]		DMP'R.	DAMPER	NO.	NUMBER	N.R.	NOT RATED		

NOTE: REFER TO ARCHITECTURAL DRAWING "COVER SHEET" FOR LIST OF GOVERNING CODES AND STANDARDS.

CONSTRUCTION DOCUMENTS

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San Mateo, CA 94402

HVAC DRAWING INDEX

SHEET NO.	DESCRIPTION
ACO.00	COVER SHEET, HVAC LEGEND AND DRAWING INDEX
ACO.01	EQUIPMENT SCHEDULES AND DETAILS
AC1.01	HVAC - FIRST FLOOR PLAN
AC6.01	HVAC - PIPING AND WIRING DIAGRAMS

HVAC DESIGN INTENT

BUILDING 34 IT SWING SPACE:
THE PROPOSED SYSTEM IS DESIGNED TO PROVIDE TEMPERED/CONDITIONED AIR TO ONLY THE I.T. SUPPORT, SHIPPING/RECEIVING, TECH AREA, MEDIA/TELECOM STORAGE, AND I.T. OFFICES. IT IS NOT A REQUIREMENT TO PROVIDE TEMPERED/CONDITIONED AIR TO THE MEDIA SERVICES AND SECURED STORAGE AREAS.

SHEET TITLE

COVER SHT, HVAC LEGEND & DWG. INDEX

REVISIONS

NO.	DATE	DESCRIPTION
-	02/04/11	CD SUBMITTAL

DATE FEBRUARY 04, 2011

DRAWN RS

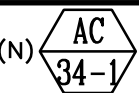
CHECKED CR


SCALE NONE


ACCO Job # 628985


SHEET NUMBER


ACO.00




PACKAGE AIR CONDITIONING UNIT (AIR COOLED)																													
SYMBOL	LOCATION	MANUF'R & MODEL NO.	SERVING	CFM	E.S.P.	RPM	REF.	COOLING				HEATING			COMP'R		COND.		EVAP. FAN			EXH. FAN FLA	VOLTAGE	MCA	MFS MOP	EER	WEIGHT (lbs)	REMARKS	
								TOTAL MBH	SENSIBLE MBH	EDB	FWB	AMB	INPUT MBH	OUTPUT MBH	EDB	QTY	RLA	QTY	FLA	BHP	HP								FLA
(N) 	OUTSIDE BLDG. 34	TRANE YSC090E	BUILDING 34	3000	1.00	1122	R410-A	86.7	67.2	78.4	63.1	92	120	96	70	1	12.8	1	1.8	1.81	-	1.7	-	460/34/60	19.5	30.0	11.1	830	7.5 TON PKGD UNITARY GAS/ELECTRIC, 2H/2C DIGITAL DISPLAY-PROGRAMMABLE TOUCH SCREEN, DRY BULB ECONOMIZER 0-100%, BAROMETRIC RELIEF

SPLIT SYTEM FAN COIL (EXISTING)																
SYMBOL	LOCATION	MANUFACTURER & MODEL No.	CFM	S.P.	RPM	REF.	TOTAL MBH	SENS. MBH	SUC	EDB	EWB	BHP	WATT	VOLTAGE	WEIGHT (lbs)	REMARKS
(E) 	BLDG 34	MITSUBISHI PKA-A12GA	390	-	-	R-410A	12.0	10.3	-	80	67	-	30	208-230/1ø/60	35	EXISTING, RELOCATE FROM RM 173 BLDG 25, DISCONNECT AND CONNECTION BY ELECTRICIAN

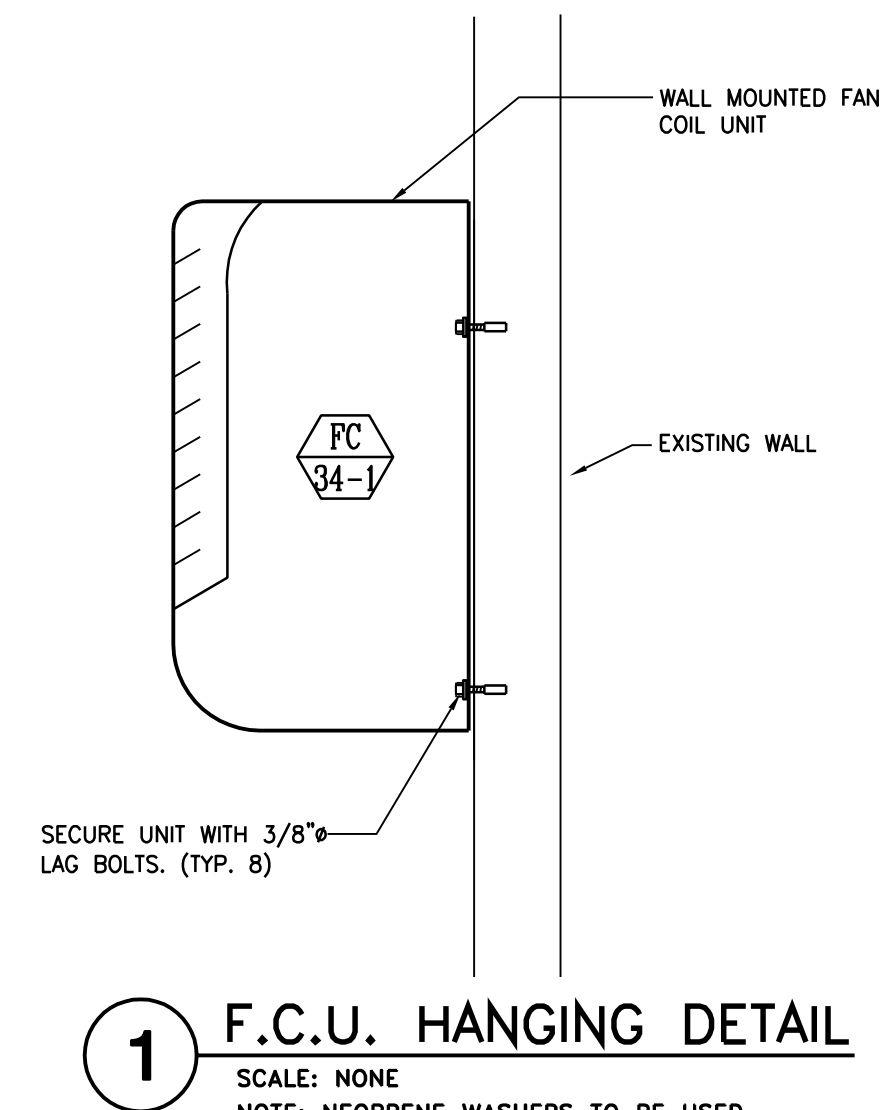
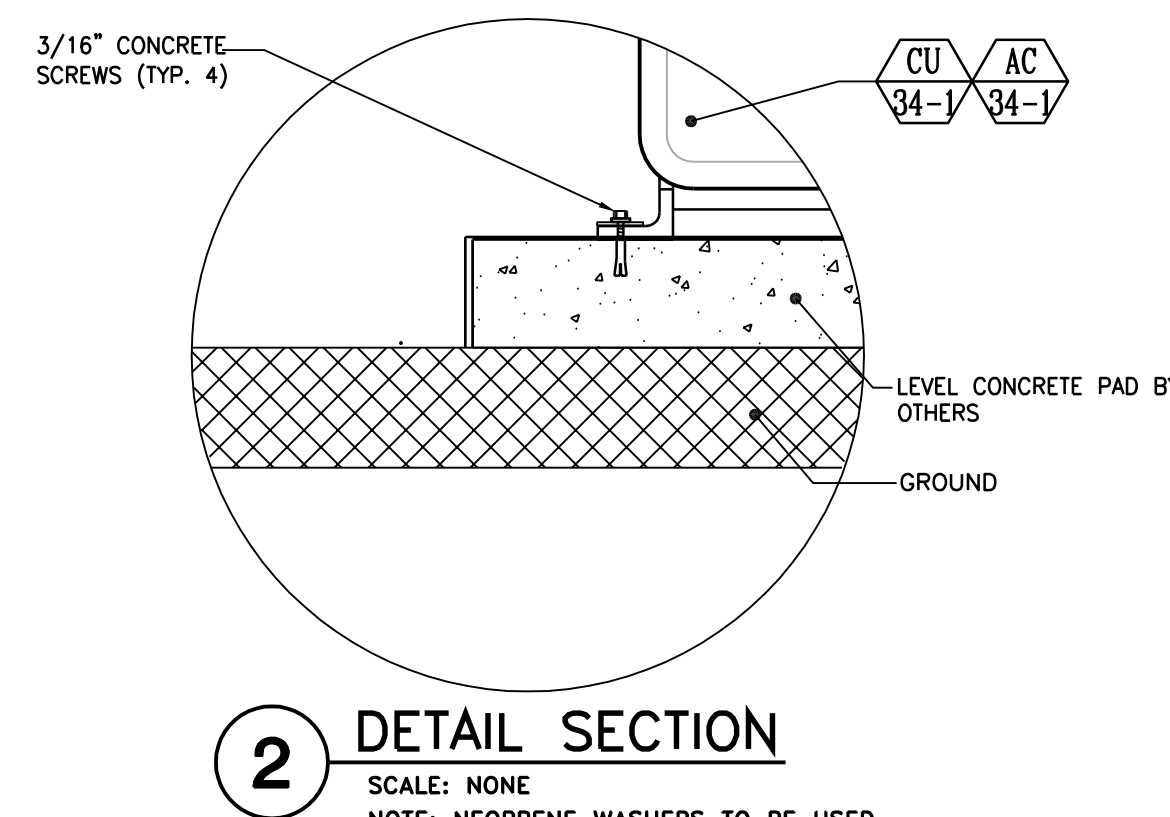
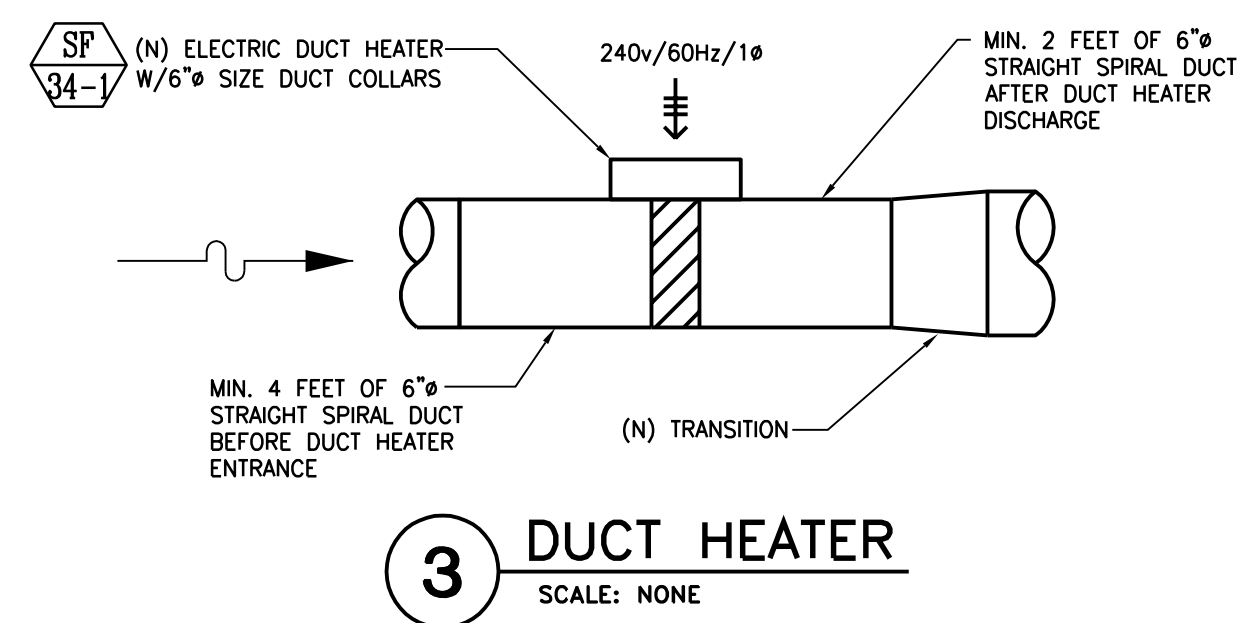
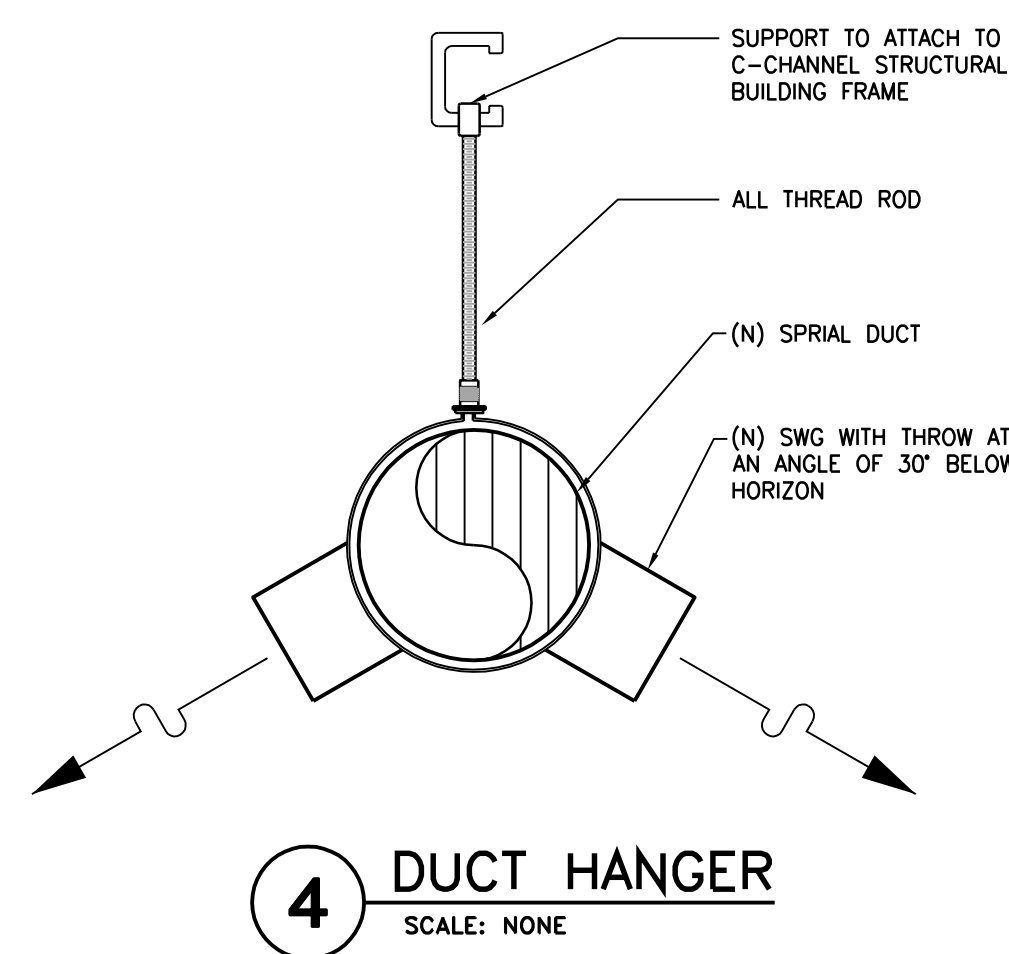
SUPPLY FAN													
SYMBOL	LOCATION	MANUF'R & MODEL NO.	SERVING	CFM	S.P.	RPM	ROT	DIS	WATTS	AMPS	VOLTAGE	WEIGHT (lbs)	REMARKS
(N) 	BUILDING 34 CEILING HUNG	THERMOLEC FER-6-3-240(D*)	BUILDING 34	90 MAX 60 MIN	-	-	-	-	-	-	120v/60Hz/1ø	-	BUILT IN SUPPLY FAN, FACTORY SUPPLIED THERMOSTAT, FAN SPEED CONTROL, DAMPER INCLUDED. 6" DUCT SIZE W/3KW ELECTRIC HEATER

SPLIT SYSTEM CONDENSING UNIT (EXISTING)																	
SYMBOL	LOCATION	MANUFACTURER & MODEL No.	CAP TONS	SUC TEMP	AMB	REF.	VOLTAGE	COMP'R		COND.		MCA	MFA MOCP	EER	WEIGHT (lbs)	REMARKS	
								QTY	RLA	QTY	FLA						
(E) 	OUTSIDE BLDG 34	MITSUBISHI PUY-A12NHA	1.0	-	95°F	R-410A	208-230/1ø/60	1	12	1	0.35	13.0	-	15.0	13.8	90	EXISTING, RELOCATE FROM RM 173 BLDG 25, DISCONNECT AND CONNECTION BY ELECTRICIAN

PLYMOVENT EMERGENCY EXHAUST													
SYMBOL	LOCATION	MANUF'R & MODEL NO.	SERVING	CFM	S.P.	RPM	ROT	DIS	-	HP	VOLTAGE	WEIGHT (lbs)	REMARKS
(N) 	BUILDING 34 CEILING HUNG	PLYMOVENT TEV-3110-60	BUILDING 34	-	-	3450	-	-	-	3.0	208v/60Hz/1ø	85	EXHAUST FAN TO BE INSTALLED BY AIR EXCHANGE INC. ELECTRIC STARTER & WALL SWITCH TO BE PROVIDED BY ELECTRICIAN.

UNIT HEATER (EXISTING)							
SYMBOL	LOCATION	MANUF'R & MODEL NO.	SERVING	TOTAL MBH	VOLTAGE	WEIGHT (lbs)	REMARKS
(E) 	BUILDING 34 CEILING HUNG	(E)	BUILDING 34	50	(E)	(E)	EXISTING
(E) 	BUILDING 34 CEILING HUNG	(E)	BUILDING 34	50	(E)	(E)	EXISTING
(E) 	BUILDING 34 CEILING HUNG	(E)	BUILDING 34	50	(E)	(E)	EXISTING, TO BE REMOVED AND RETURNED TO CSM FACILITIES

EQUIPMENT SCHEDULES



DETAILS

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CONSTRUCTION DOCUMENTS

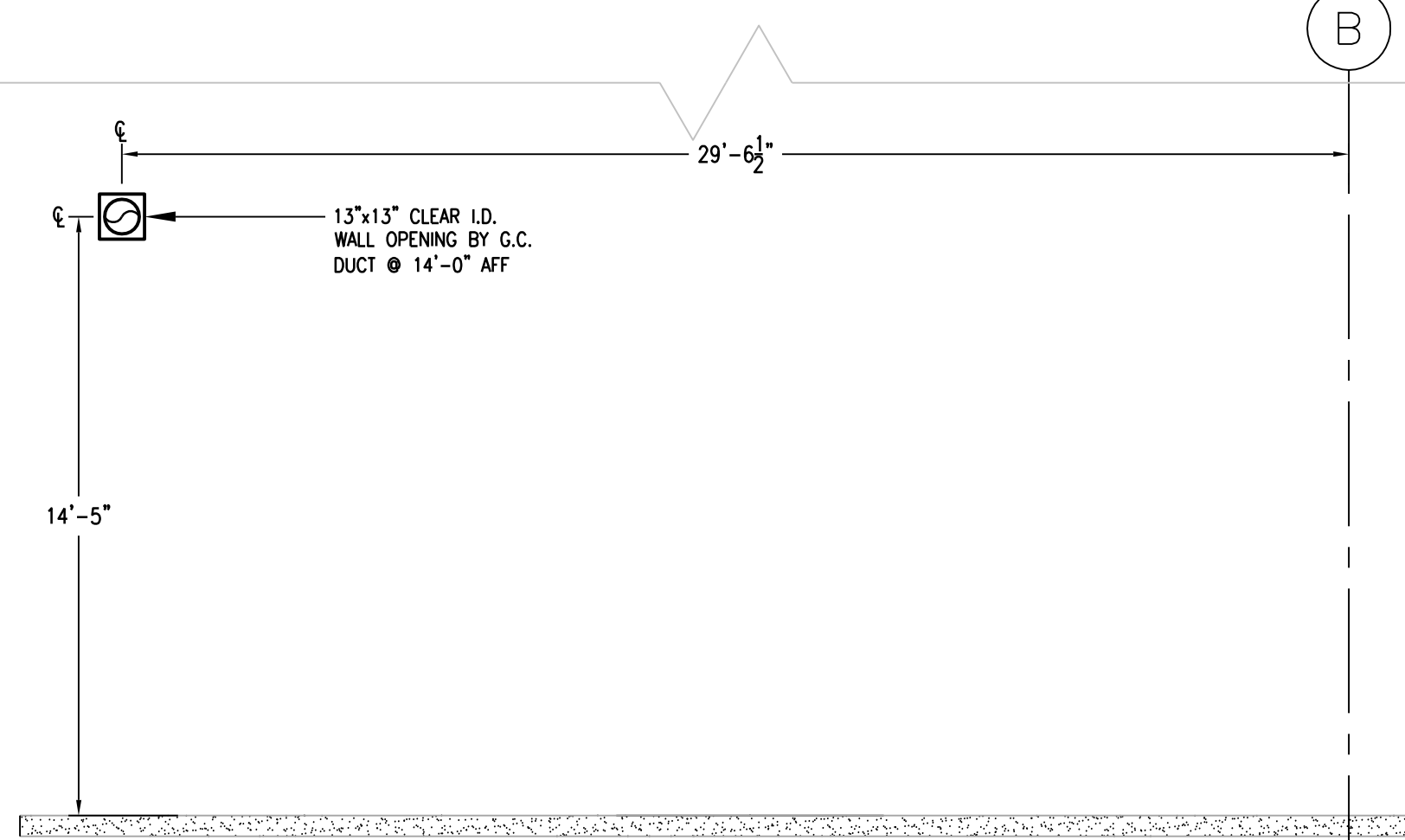
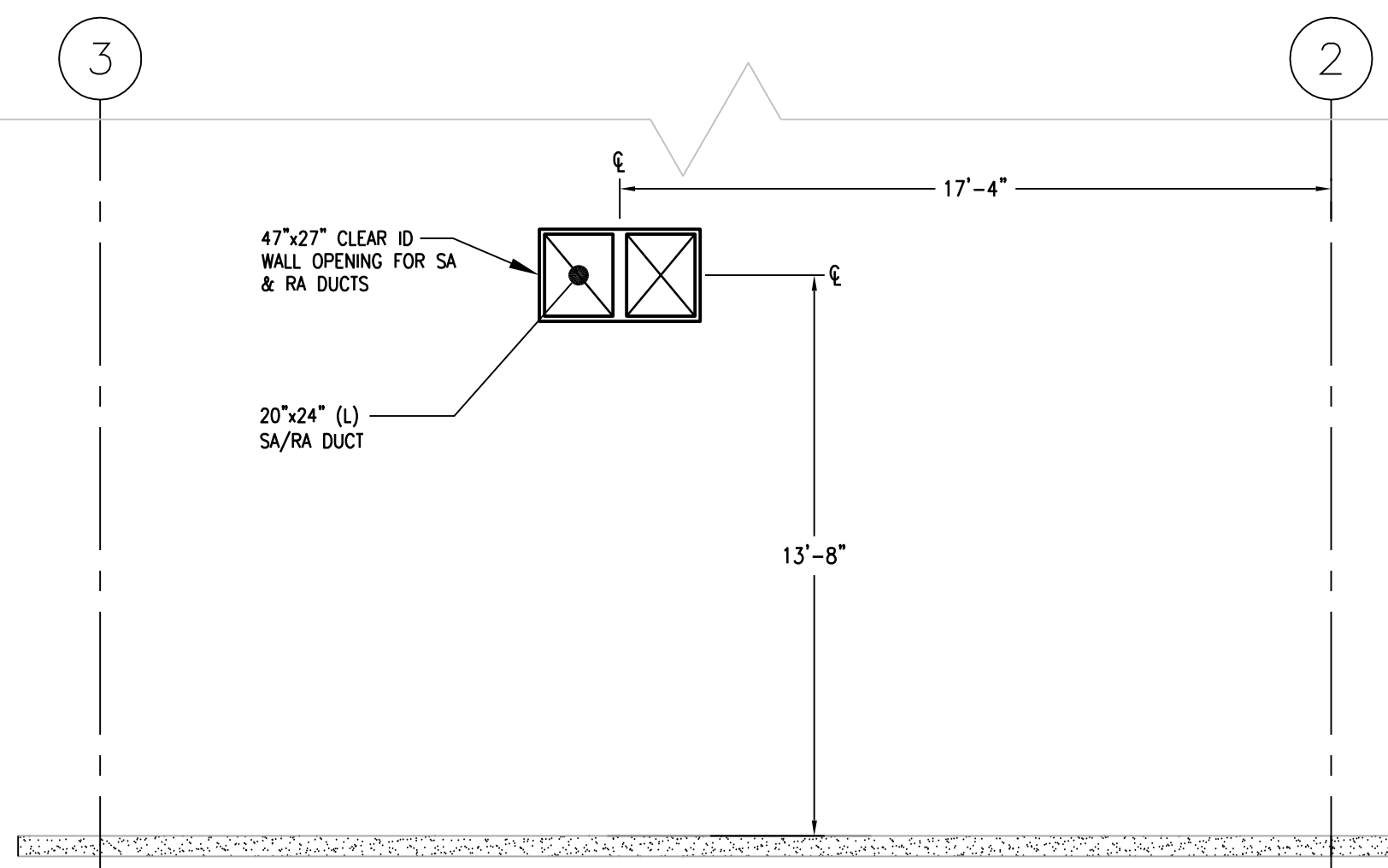
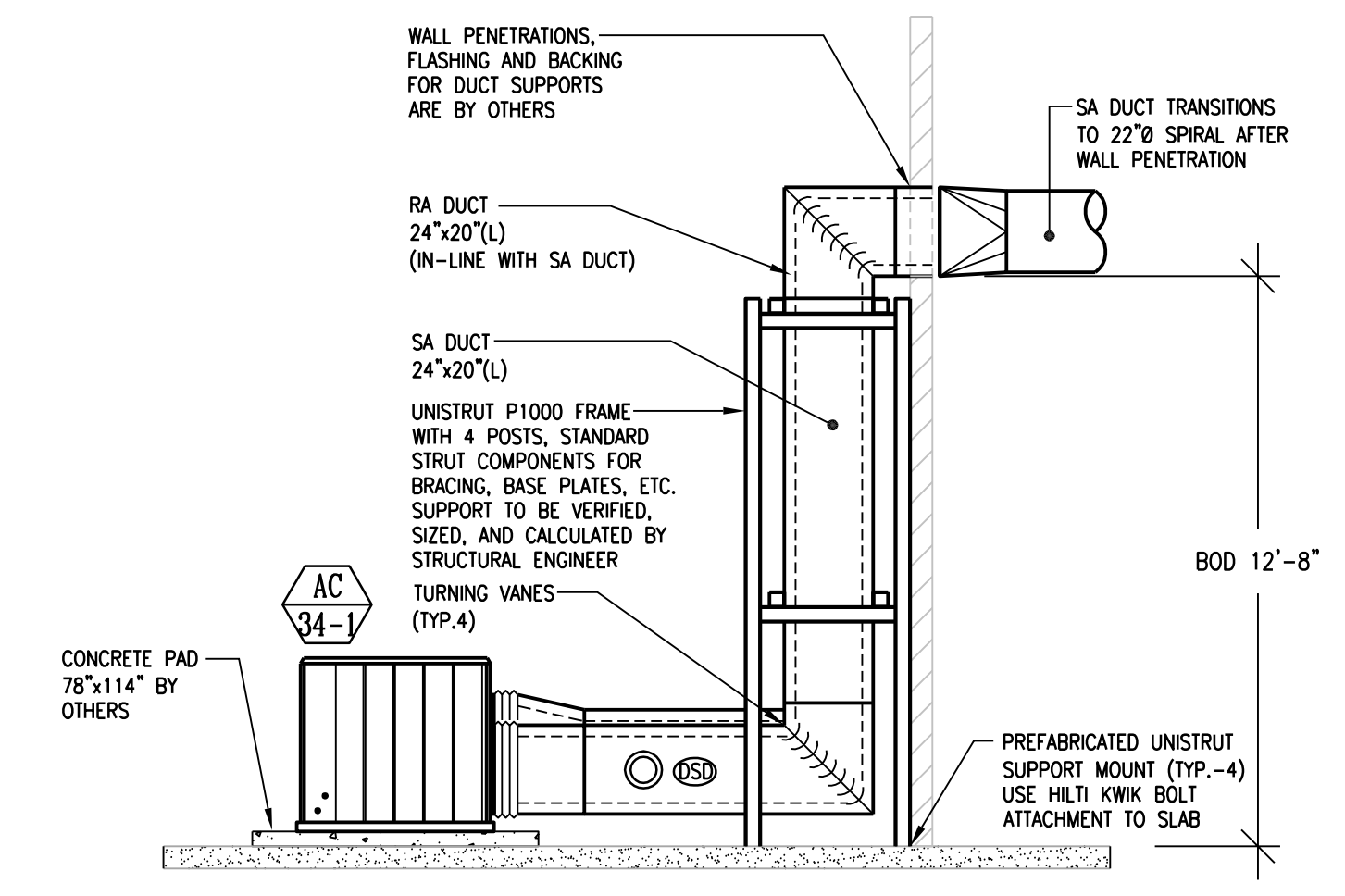
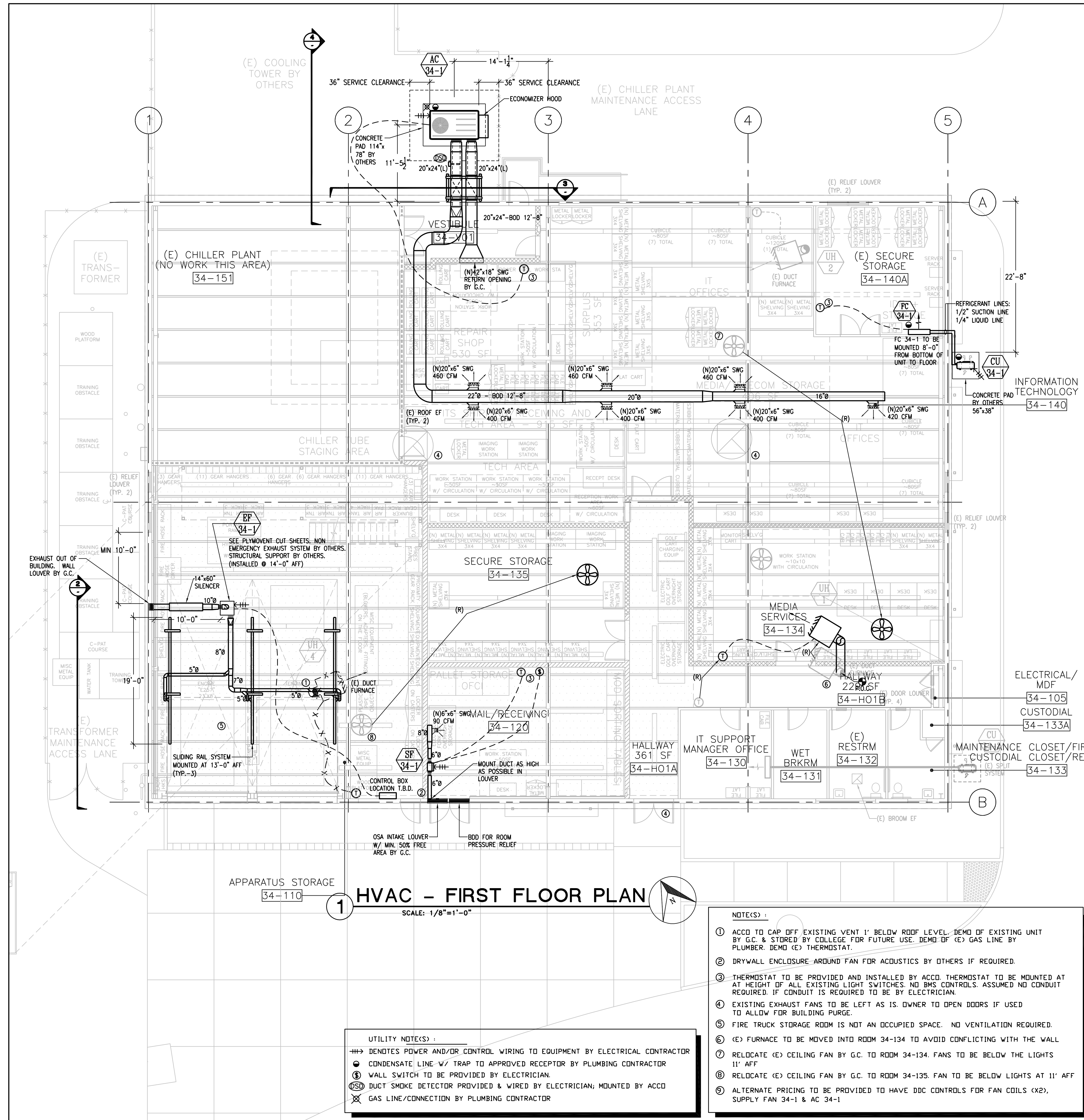
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College of San Mateo
1700 W. Hillside Blvd.
San Mateo, CA 94402

SHEET TITLE
EQUIPMENT SCHEDULES & DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION
-	02/04/11	CD SUBMITTAL

DATE FEBRUARY 04, 2011
DRAWN RS
CHECKED CR
SCALE AS NOTED
ACCO Job # 628985

SHEET NUMBER
AC0.01



ARCHITECT OF RECORD
noll tam
architects and planners
729 Heinz Avenue
Berkeley, CA 94710
510.649.8295
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CONSULTANTS
acco engineered systems
1133 ALADDIN AVENUE
SAN LEANDRO, CALIFORNIA 94577
(510) 346-4300
THE WITHIN DESIGN IS EXCLUSIVELY OWNED BY ACCO ENGINEERED SYSTEMS, AND IS NOT INTENDED FOR PUBLICATION. EXHIBITION HEREOF IS SOLELY FOR THE PURPOSE OF EFFECTING A SALE OR TRANSFER OF THE DELINEATED MECHANICAL AND/OR CONTROLS SYSTEMS.

CONSTRUCTION DOCUMENTS
COLLEGE OF SAN MATEO
BUILDING 34
MODERNIZATION
SMCCCD
3401 GSM Drive
San Mateo, CA 94402
College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE
HVAC-FIRST FLOOR PLAN

REVISIONS

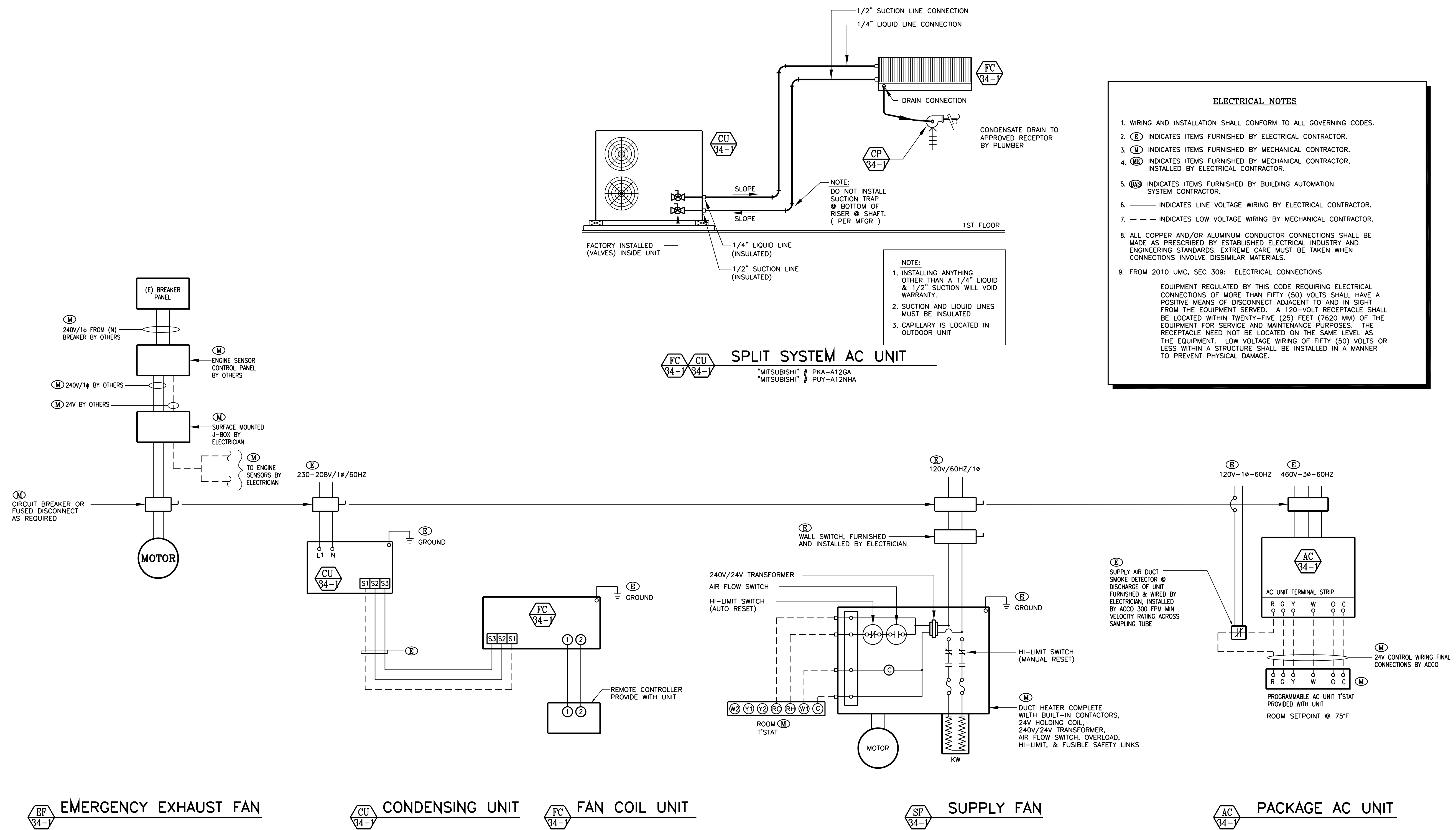
NO.	DATE	DESCRIPTION
-	02/04/11	CD SUBMITTAL

DATE FEBRUARY 04, 2011
DRAWN RS
CHECKED CR
SCALE 1/8"=1'-0"
ACCO Job # 628985

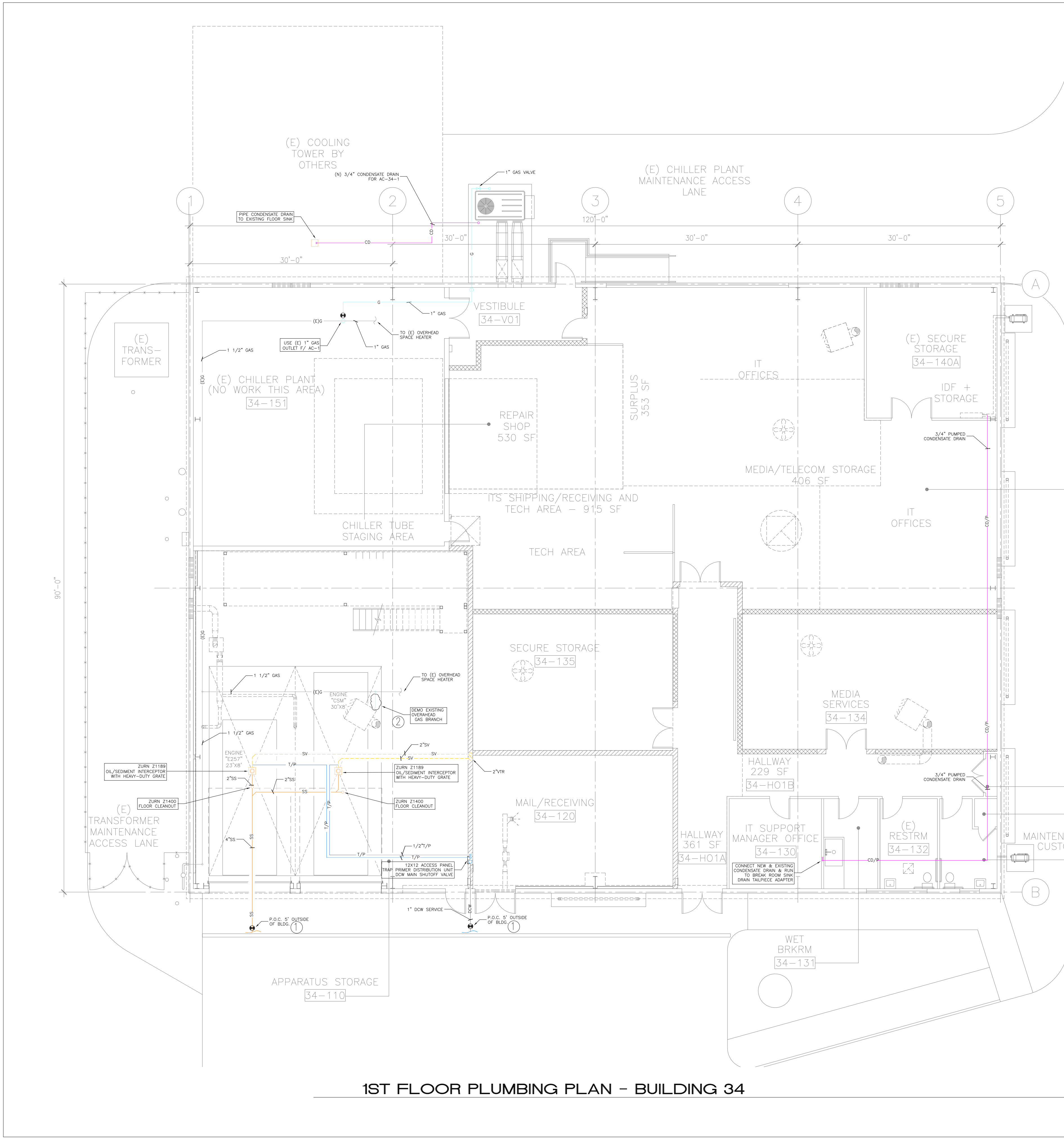
SHEET NUMBER
AC1.01

NO.	DATE	DESCRIPTION
-	02/04/11	CD SUBMITTAL

DATE	FEBRUARY 04, 2011
DRAWN	RS
CHECKED	CR
SCALE	NONE
ACCO Job #	628985



PIPING AND WIRING DIAGRAM



LEGEND

- SS — WASTE PIPING
- SV — VENT PIPING
- CD — CONDENSATE DRAIN/GRAVITY
- CD/P — CONDENSATE DRAIN/PUMPED
- DCW — COLD WATER
- T/P — TRAP PRIMER
- G — NATURAL GAS

PIPING MATERIALS:

- 1) DOMESTIC COLD WATER, TRAP PRIMER CONDENSATE DRAIN AND CONDENSATE PUMPED DRAIN - TYPE L COPPER
- 2) SANITARY WASTE & VENT - NO HUB CAST IRON OR DWV COPPER.

SCHEDULE:

FLOOR DRAIN	ZURN Z1189
TRAP PRIMER	PPP PRECISION PLMG PRODUCT
ACCESS PANEL	ELMDOOR PRODUCT 12X12
CLEAN OUT	ZURN Z1400

- NOTES:**
- ① WASTE AND WATER RUN TO 5'-0" OUTSIDE OF BLDG.
 - ② NATURAL GAS DEMO VERIFY IN FIELD

1ST FLOOR PLUMBING PLAN - BUILDING 34

1/8" = 1'-0"

ARCHITECT OF RECORD

729 Heinz Avenue
Berkeley, CA 94710
510.649.8295
fax 510.649.3008

CONSULTANTS

KRUSE Plumbing Heating Cooling
A century of service

P.O. Box 2900, Berkeley, CA 94702
920 Pardee Street, Berkeley, CA 94710
Phone (510) 644-0260 Fax (510) 849-9909

CONSTRUCTION DOCUMENT

COLLEGE OF SAN MATEO
BUILDING 34
MODERNIZATION

SMCCCD
3401 GSM Drive
San Mateo, CA 94402
College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE

**PLUMBING
1ST FL PLAN**

REVISIONS

NO.	DATE	DESCRIPTION
1	1/24/11	100% SUBMITTAL
2	2/4/11	RE-SUBMIT
3	2/16/11	RE-SUBMIT

DATE JANUARY 26, 2011
DRAWN KC
CHECKED
SCALE 1/8" = 1'-0"
LJK JOB NO.: 31-007

SHEET NUMBER

P1.01



CUPERTINO ELECTRIC

1740 CESAR CHAVEZ ST.
SAN FRANCISCO, CA.
(415)970-3400
C-10 LIC.NO. 174637

THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED BY CUPERTINO ELECTRIC, INC. FOR THEIR EXCLUSIVE USE IN ACCORD WITH SEC. 6737.3 OF THE 2002 PROFESSIONAL ENGINEERS ACT OF THE STATE OF CALIFORNIA.



CONSTRUCTION DOCUMENTS

COLLEGE OF SAN MATEO
BUILDING 34
MODERNIZATION

SMCCCD
3401 CSM Drive
San Mateo, CA 94402
College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE

**BUILDING 34
SYMBOL LIST AND
ABBREVIATIONS**

REVISIONS

NO.	DATE	DESCRIPTION
	12/03/10	90% CD
	01/18/11	PROGRESS SET
	01/26/11	CONSTRUCTION SET
	02/04/11	CONSTRUCTION SET

DATE: FEBRUARY 04, 2011

DRAWN: RF

CHECKED: GG

SCALE: NA

N&T JOB NO.: 2901.4

SHEET NUMBER

E2.00

DRAWING INDEX:

DRAWING LIST		ISSUANCES												
Sheet#	Sheet Title	CONSTRUCTION SET	1	2	3	4	5	6	7	8	9	10	11	12
E2 00	BUILDING 34 SYMBOL LIST AND ABBREVIATIONS	X												
E2 01	TITLE 24 LIGHTING COMPLIANCE & FIXTURE SCHEDULE	X												
E2 02	BUILDING 34 POWER/SIGNAL FLOOR PLAN	X												
E2 03	BUILDING 34 LIGHTING FLOOR PLAN	X												
E2 04	BUILDING 34 RACK DETAIL	X												

ABBREVIATIONS:

AFF	ABOVE FINISH FLOOR	KVA	KILOVOLT AMPERES
AL	ALUMINUM CONDUCTOR OR BUS	KW	KILOWATTS
AM	AMMETER	LS	LIFE SAFETY
AS	AMMETER SWITCH	LR	LEGALLY REQUIRED
ATS	AUTOMATIC TRANSFER SWITCH	LTG	LIGHTING
BKR	BREAKER	MCP	MOTOR CIRCUIT PROTECTOR
BLDG	BUILDING	MTD	MOUNTED
BPS	BOOSTER POWER SUPPLY	MTG	MOUNTING
CM	CUSTOMER METER	N	NEW
CKT	CIRCUIT	NL	NIGHT LIGHT
CO	CONDUIT ONLY	NIC	NOT IN CONTRACT
CU	COPPER CONDUCTOR OR BUS	NTS	NOT TO SCALE
DS/VFD	INTEGRAL DISCONNECT/ VARIABLE FREQUENCY DRIVE FURNISHED BY DIV 15	OS	OPTIONAL STANDBY
E	EXISTING	R	REMOVE
EC	ELEVATOR CONTROLLER	RE	RELOCATE EXISTING
EDF	ELECTRIC DRINKING FOUNTAIN	RECTP	RECEPTACLE
EGC	EQUIPMENT GROUNDING CONDUCTOR	SL	SECURITY LIGHT - ON/OFF BY PHOTO CELL
EL	EXTERIOR LIGHT - ON BY PHOTO CELL, OFF BY TIME CLOCK	SLD	SINGLE LINE DIAGRAM
EM	EMERGENCY	TBD	TO BE DETERMINED
EPO	EMERGENCY POWER OFF	TC	TIME CLOCK
EQ	EQUAL	TTB	TV/TELEPHONE BACKBOARD FURNISHED BY OTHERS
ER	EXISTING TO BE REMOVED	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TYP	TYPICAL
FACP	FIRE ALARM CONTROL PANEL	UON	UNLESS OTHERWISE NOTED
FBO	FURNISHED BY OTHERS	VC	VOLUME CONTROL
GEC	GROUNDING ELECTRODE CONDUCTOR	VFD	VARIABLE FREQUENCY DRIVE FURNISHED BY DIV 15
GFR	GROUND FAULT RELAY	VM	VOLTMETER
GND	GROUND	VS	VOLTMETER SWITCH
IBO	INSTALLED BY OTHERS	W	WALL MOUNTED
IG	ISOLATED GROUND CONDUCTOR OR BUS	WP	EQUIPMENT OF WEATHERPROOF CONSTRUCTION OR DESIGN
		XFMR	TRANSFORMER

NON-INFRINGEMENT STATEMENT

THE ELECTRICAL WORK SHOWN ON THESE DRAWINGS, IN THE PROFESSIONAL JUDGEMENT OF THE UNDERSIGNED, DOES NOT INTERFERE WITH THE INTEGRITY OF THE LIFE SAFETY SYSTEM REQUIREMENTS FOR THE BUILDING.

DESIGNER: _____ DATE: _____

SYMBOLS:

(ALL SYMBOLS MAY OR MAY NOT BE USED)

LIGHTING

	2' x 4' FLUORESCENT LIGHT FIXTURE - REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
	1' x 4' FLUORESCENT LIGHT FIXTURE - REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
	2' x 2' FLUORESCENT LIGHT FIXTURE - REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
	PENDANT FLUORESCENT LIGHT FIXTURE - REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
	LIGHTING FIXTURE ON EMERGENCY POWER, UNSWITCHED, UON, SEE TAG FOR TYPE.
	4'-0" FLUORESCENT STRIP FIXTURE - REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
	DOWN LIGHT - "D" INDICATES FIXTURE TYPE, "3" INDICATES CIRCUIT, AND "a" INDICATES SWITCH CONTROL.
	WALL MOUNTED LIGHTING FIXTURE - REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
	RECESSED WALL WASHING FIXTURE - REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
	LIGHT TRACK AND FIXTURES - REFER TO FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
	EXIT LIGHT - CEILING OR WALL MOUNTED SHADED AREA INDICATES ILLUMINATED FACE WITH ARROWS AS INDICATED
	EMERGENCY BATTERY UNIT
	SPST TOGGLE SWITCH - 20A, 120/277V, "a" INDICATES CONTROL
	3-WAY TOGGLE SWITCH - 20A, 120/277V "a" INDICATES CONTROL
	SPST KEYED SWITCH - 20A, 120/277V, "a" INDICATES CONTROL
	LOW VOLTAGE SWITCH, "a" INDICATES CONTROL.
	OCCUPANCY SENSOR, CEILING MOUNT, "a" INDICATES CONTROL
	OCCUPANCY SENSOR, WALL MOUNT, "a" INDICATES CONTROL
	OCCUPANCY SENSOR, DUAL RELAY, WALL MOUNT, "a" INDICATES CONTROL
	POWER PACK, 20A, UNIVERSAL VOLTAGE
	PHOTO CELL - 120/277V RATED FOR LOAD SERVED
	LOW VOLTAGE MULTI-CONDUCTOR CABLE - PLENUM RATED WHERE REQUIRED, NOT INSTALLED IN CONDUIT

GENERAL NOTE:

1. INSTALL ALL WALL MOUNTED POWER, TELEPHONE AND DATA OUTLETS @ +18" AFF UNLESS OTHERWISE NOTED. INSTALL ALL LIGHTING CONTROL SWITCHES, FIRE ALARM PULL STATIONS AND WALL TELEPHONE JACKS @ +48" AFF UNLESS OTHERWISE NOTED. ALL HEIGHT MEASUREMENTS SHALL BE THE CENTERLINE OF THE DEVICE.

POWER

	MOTOR
	JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE TO CODE, TAP AND TAG WIRES; PROVIDE FLEX AND/OR RECEPTACLE AS REQUIRED TO CONNECT EQUIPMENT
	RECEPTACLE, DUPLEX - 20A, 120V GND - NEMA 5-20R U.O.N.
	RECEPTACLE, DOUBLE DUPLEX - (2) 20A, 120V GND - NEMA (2)5-20R U.O.N.
	RECEPTACLE, DUPLEX WITH ONE HALF SWITCHED
	RECEPTACLE, DUPLEX WITH GFCI PROTECTION
	CORD DROP, DUPLEX RECEPTACLE IN JUNCTION BOX AT +72" A.F.F. SUSPENDED BY TYPE S.O. CORD WITH GRIPS AT EACH END, TOP AND BOTTOM.
	SPECIAL RECEPTACLE 250V - SINGLE PHASE 3 WIRE, GND (L6-20R U.O.N.)
	SPECIAL RECEPTACLE - THREE PHASE 5 WIRE, GND (L21-20R U.O.N.)
	ELECTRIFIED FURNITURE VOICE/DATA CONNECTION
	WIREMOLD G-4000 DIVIDED. VERIFY MOUNTING HEIGHT AND BRANCH CIRCUIT CONDUIT ROUTING.
	TELE/POWER POLE - WIREMOLD #30TP-4 OR EQUAL WITH DEVICES AS SHOWN
	FLOOR OUTLET WITH DUPLEX RECEPTACLE
	FLOOR TELEPHONE OUTLET
	MULTI-DEVICE FLOOR BOX WITH DEVICES AS SHOWN ON PLANS - WITH CARPET PLATE
	TELEPHONE WALL OUTLET - SINGLE GANG RING AND STRING INTO CEILING SPACE. INSTALL J-BOX AND 3/4" CONDUIT WITH STRING INTO CEILING SPACE
	COMBINATION DATA/TELEPHONE OUTLET-SAME AS TELEPHONE OUTLET ABOVE NO. INDICATES QUANTITY OF DATA OUTLET.
	DATA OUTLET - SAME AS TELEPHONE OUTLET ABOVE
	CARD READER ROUGH-IN (3/4" CO TO CEILING SPACE)
	TRANSFORMER - WALL HUNG OR FLOOR MOUNTED ON ISOLATION PADS
	SWITCHBOARD, DISTRIBUTION BOARD OR MOTOR CONTROL CENTER
	POWER PANELBOARD-SURFACE OR FLUSH MOUNTED; VERIFY WALL DEPTH IF FLUSH MOUNTED
	FIRE SMOKE DAMPER
	NOTE REFERENCE SYMBOL - SEE ASSOCIATED NOTE
	CONDUIT STUB-UP OR DOWN AS NOTED
	RELOCATE EXISTING DEVICE AS SHOWN
	HASH MARK IDENTIFICATION
	EQUIPMENT GROUND CONDUCTOR
	ISOLATED GROUND CONDUCTOR (WHERE USED)
	NEUTRAL CONDUCTOR
	PHASE CONDUCTOR AND/OR SWITCH LEGS
	FLEX CONDUIT WITH CONNECTION
	CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC., HASH MARKS INDICATE NUMBER OF WIRES, "#10" INDICATES WIRE SIZE, SIZE CONDUIT PER CODE U.O.N.
	CONDUIT - CONCEALED IN WALLS OR CEILING, 1/2" WITH (2) #12 THHN/THWN Cu & (1) #12 THHN/THWN Cu GROUND U.O.N.
	CONDUIT - IN OR BELOW FLOOR, 3/4" WITH (2) #12 THHN/THWN Cu & (1) #12 THHN/THWN Cu GROUND U.O.N.
	MC CABLE - HASH MARKS INDICATE QUANTITY OF CONDUCTORS, OR AS REQUIRED PER PANEL SCHEDULE, #10 INDICATES CONDUCTOR SIZE
	PANELBOARD, SIZE AS NOTED, MAIN LUGS ONLY UNLESS MAIN BREAKER SHOWN, "100/3" INDICATES MAIN BREAKER SIZE
	DISCONNECT SWITCH - MOTOR RATED, "M" INDICATES SWITCH TO BE FURNISHED WITH MOTOR CIRCUIT PROTECTOR, "C" INDICATES SWITCH TO BE FURNISHED WITH CIRCUIT BREAKER, "F" INDICATES SWITCH TO BE FURNISHED WITH FUSES, SIZED ACCORDING TO EQUIPMENT NAMEPLATE DATA. DISCONNECT SWITCH IS NON-FUSED WHERE NO "M", "C" OR "F" IS NOTED.
	MAGNETIC MOTOR STARTER WITH CPT, HOA AND 3 OL's, '2' INDICATES NEMA SIZE
	MANUAL MOTOR STARTER SWITCH WITH INTEGRAL OVERLOAD HEATERS
	MAGNETIC FVNR STARTER. "M" INDICATES MAGNETIC NEMA SIZE
	COMBINATION MOTOR STARTER/DISCONNECT D: DISCONNECT AMPERE RATING/POLE N: MAGNETIC NEMA SIZE
	NON-FUSED SAFETY SWITCH. "100AS" INDICATES SWITCH AMPERE RATING
	FUSED SAFETY SWITCH. "100AS" INDICATES SWITCH AMPERE RATING. "70AF" INDICATES FUSED AMPERE RATING.
	FUSIBLE PLUG-IN UNITS. "H" OR "R" INDICATE TYPE OF FUSE. "70AF" INDICATES FUSED AMPERE RATING. "100AS" INDICATES SWITCH AMPERE RATING.
	VARIABLE FREQUENCY DRIVE - FURNISHED BY OTHERS
	INTEGRAL DISCONNECT / VARIABLE FREQUENCY DRIVE, FURNISHED BY DIVISION 15

INDOOR LIGHTING POWER ALLOWANCE (LTG-3C)

Project Name: College of San Mateo Building 34 Date: November 22, 2010

ALLOWED LIGHTING POWER (Choose One Method)
 A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this page are only for: CONDITIONED spaces UNCONDITIONED spaces

BUILDING CATEGORY (From §146 Table 146-E)	WATTS PER (F ²)	COMPLETE BLDG. AREA (F ²)	ALLOWED WATTS
TOTALS		AREA	WATTS

AREA CATEGORY METHOD - Part A

A	B	C	D
AREA CATEGORY (From §146 Table 146-F)	WATTS PER (F ²)	X	AREA (F ²) =
OFFICE AREAS	1.2		6,487
ENGINE AREAS	1.2		1,960
TOTALS			8,447

AREA CATEGORY METHOD - Part B Additional Wattage Allowance (from Table 146-F Footnotes)

A	B	C ¹	D	E	F	G
Primary Function	Sq Ft	Additional Watts Per Ft ² Allowed	Wattage Allowance (B x C)	Description(s) and Quantity of Special Luminaire ² Types in each Primary Function Area	Total Design Watts	ALLOWED WATTS D or F
TOTALS - Enter into Area Category Method - Part A (table above)						

TAILORED METHOD
 Total Allowed Watts using the Tailored Method taken from LTG-4C (Page 1 of 4) Row 3
 The indoor lighting power allowance using the Tailored Method of compliance shall be determined using the LTG-4C set of forms. A separate set of LTG-4C forms shall be filled out for CONDITIONED and UNCONDITIONED spaces.

2008 Nonresidential Compliance Forms August 2009

CERTIFICATE OF COMPLIANCE (Page 3 of 4) LTG-1C

Project Name: College of San Mateo Building 34 Date: November 22, 2010

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST
 Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual dimming controls for daylight areas > 250ft², automatic daylighting controls for daylight areas > 2,500ft², d) shut-off controls, e) display lighting controls, f) tailored lighting controls, general lighting controlled separately from display, ornamental and display case lighting and g) demand responsive automatic controls for retail stores > 3000ft², in accordance with Section 131.

MANDATORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST

Type / Description	Number of Units	Location in Building	Special Features	Pass	Fail
CEILING OCCUPANT SENSOR	10	WORK AREAS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WALL SWITCH	7	WORK AREAS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of LTG-1C)
 The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

Field Inspector's Notes or Discrepancies:

2008 Nonresidential Compliance Forms July 2010

CERTIFICATE OF COMPLIANCE (Page 1 of 4) LTG-1C

Project Name: College of San Mateo Building 34 Date: November 22, 2010

Project Address: 1700 W. Hillsdale Blvd. San Mateo, CA. 94402 Climate Zone: 3 Building CFA: Unconditioned Floor Area:

General Information
 Building Type: Nonresidential High-Rise Residential Hotel/Motel
 Schools Relocatable Public Schools Conditioned Spaces Unconditioned Spaces
 Phase of Construction: New Construction Addition Alteration
 Method of Compliance: Complete Building Area Category Tailored

Documentation Author's Declaration Statement
 I certify that this Certificate of Compliance documentation is accurate and complete.
 Name: Thomas Byers Signature:
 Company: Cupertino Electric Inc. Date: November 22, 2010
 Address: 1740 Cesar Chavez Street Phone: 415-970-3400
 City/State/Zip: San Francisco, CA 94124 License # E12690
 Date: November 22, 2010

Principal Lighting Designer's Declaration Statement
 I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
 This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
 The Design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 Name: Thomas Byers Signature:
 Company: Cupertino Electric Inc. Phone: 415-970-3400
 Address: 1740 Cesar Chavez Street License # E12690
 City/State/Zip: San Francisco, CA 94124 Date: November 22, 2010

Lighting Mandatory Measures
 Indicate location on building plans of Mandatory Measures Note Block:
LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)
 For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.
 LTG-1C Pages 1 through 4 Certificate of Compliance. All Pages required on plans for all submissions.
 LTG-2C Lighting Controls Credit Worksheet
 LTG-3C Indoor Lighting Power Allowance
 LTG-4C Pages 1 through 4 Tailored Method Worksheet
 LTG-5C Pages 1 and 2 Line Voltage Track Lighting Worksheet

2008 Nonresidential Compliance Forms July 2010

MANDATORY MEASURES

Building Lighting Shut-off
 The building lighting shut off system consists of an automatic time switch, with a zone for each floor.

Override for Building Lighting Shut-off
 The automatic building shut-off system is provided with a manual accessible override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.

Automatic Control Devices Certified
 All automatic control devices specified are certified; all alternate equipment shall be certified and installed as directed by the manufacturer.

Fluorescent Ballast and Luminaires Certified
 All fluorescent fixtures subject to certification and specified for the projects are certified.

Individual Room/Area Controls
 Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-to-ceiling walls.

Uniform Reduction for Individual Rooms
 All rooms that are greater than 100 square feet and more than 0.8 watts per square foot of lighting load shall be controlled with Multi-level switching for uniform reduction of lighting within the room.

Daylit Area Control
 All rooms that are greater than 250 square feet and contain windows and skylights, that allow for the effective use of daylight in the area shall have 50% of the lighting power in each daylit area controlled by a separate switch; or
 the effective use of daylight through cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of year is included on plans.

LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	CATALOG #	DESCRIPTION	LAMP		FITTURE	
				QTY	DESCRIPTION	WATTS	VOLTAGE
		NAUTILUX NT110-F226-120-WHT	WALL MOUNTED EXTERIOR WEATHER PROOF FIXTURE	3		75	120
		QUANTUM EMERGENCY LIGHT ELM2-120	WALL MOUNTED THERMOPLASTIC EMERGENCY LIGHT	4		1.5	120
		OW-WRAPAROUND OW-N-2-32-UNV-1/2EB	SURFACE MOUNTED FLOURESCENT FIXTURE	8	78	32	277
		SUIMLYTE PLUS SLP-126-OL	UNDERCOUNTER FLOURESCENT FIXTURE	4	75	26	120

CERTIFICATE OF COMPLIANCE (Page 4 of 4) LTG-1C

Project Name: College of San Mateo Building 34 Date: November 22, 2010

Conditioned and Unconditioned Space. Lighting must not be combined for compliance.

Indoor Lighting Power for Conditioned Spaces		Indoor Lighting Power for Unconditioned Spaces	
Installed Lighting (from Conditioned LTG-1C Page 2)	Watts	Installed Lighting (from Unconditioned LTG-1C Page 2)	Watts
Lighting Control Credit (from LTG-2C)	-	Lighting Control Credit (from LTG-2C)	-
Adjusted Installed Lighting Power =	3,584	Adjusted Installed Lighting Power =	
Complies if Installed ≤ Allowed		Complies if Installed ≤ Allowed	
Allowed Lighting Power Conditioned Spaces (from LTG-3C)	10,136	Allowed Lighting Power Unconditioned Spaces (from LTG-3C)	

Required Acceptance Tests
Designer:
 This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting System, LTG-2A. The designer is required to check the acceptance tests and that all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The N&T Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled.
Enforcement Agency:
 Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or whenever a new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements.
 The LTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed form before the building can receive final occupancy. A copy of the LTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Luminaires Controlled			LTG-2A
Equipment Requiring Testing	Description	Number of Like Controls	Controls and Sensors and Automatic Daylighting Controls Acceptance
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
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			<input type="checkbox"/>
			<input type="checkbox"/>

2008 Nonresidential Compliance Forms July 2010

CERTIFICATE OF COMPLIANCE (Page 2 of 4) LTG-1C

Project Name: College of San Mateo Building 34 Date: November 22, 2010

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Installation Certificate, LTG-1-INST (Retain a copy and verify form is completed and signed.) Field Inspector
Certificate of Acceptance, LTG-2A (Retain a copy and verify form is completed and signed.) Field Inspector
 A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on the Lighting Schedule is only for: CONDITIONED SPACE UNCONDITIONED SPACE
 The actual indoor lighting power listed below includes all installed permanent and portable lighting systems in accordance with §146a.
 Only for offices: Up to the first 0.2 watts per square foot of portable lighting shall not be required to be included in the calculation of actual indoor lighting power density in accordance with the Exception to §146a. All portable lighting in excess of 0.2 watts per square foot is intended below.

Name of luminaire	Luminaire Schedule (Type, Lamps, Ballasts)				Installed Watts				Field Inspector
	A	B	C	D	E	F	G	H	
	Complete Luminaire Description (e.g., 3 lamp fluorescent troffer, F327A, one immovable electronic ballast)	Special Features	Watts per Luminaire ¹	CEC Default from NAS (4 or 0)	According to §150 (4 or 0)	Number of Luminaires	Installed Watts (D x F)	Pass	Fail
F1	Fluorescent (2) T8 lamps		32			103	3,296	<input type="checkbox"/>	<input type="checkbox"/>
F2	Fluorescent (1) T8 lamp		32			8	256	<input type="checkbox"/>	<input type="checkbox"/>
F3	Fluorescent Strip (1)T8 lamp		32			4	32	<input type="checkbox"/>	<input type="checkbox"/>

Building total number of pages	1	Installed Watts Building Total (Sum of all pages)	3,584
Enter into LTG-1C Page 4 of 4			

1. Wattage shall be determined according to Section 130(a) and (e). Wattage shall be rating of light fixture, not rating of ball.
 2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

2008 Nonresidential Compliance Forms July 2010

ARCHITECT OF RECORD

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 C-10 LIC.NO. 174637

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DAN BORESCH
 E1895F
 12/31/11
 RENEWAL DATE

CONSTRUCTION DOCUMENTS

COLLEGE OF SAN MATEO
 BUILDING 34
 MODERNIZATION

SMCCCD
 3401 CSM Drive
 San Mateo, CA 94402
 College of San Mateo
 1700 W. Hillsdale Blvd.
 San Mateo, CA 94402

SHEET TITLE

**BUILDING 34
 TITLE 24
 COMPLIANCE**

REVISIONS

NO.	DATE	DESCRIPTION
	12/03/10	90% CD
	01/18/11	PROGRESS SET
	01/28/11	CONSTRUCTION SET
	02/04/11	CONSTRUCTION SET

DATE: FEBRUARY 04, 2011
 DRAWN: RF
 CHECKED: GG
 SCALE: NA
 N&T JOB NO.: 2901.4

SHEET NUMBER

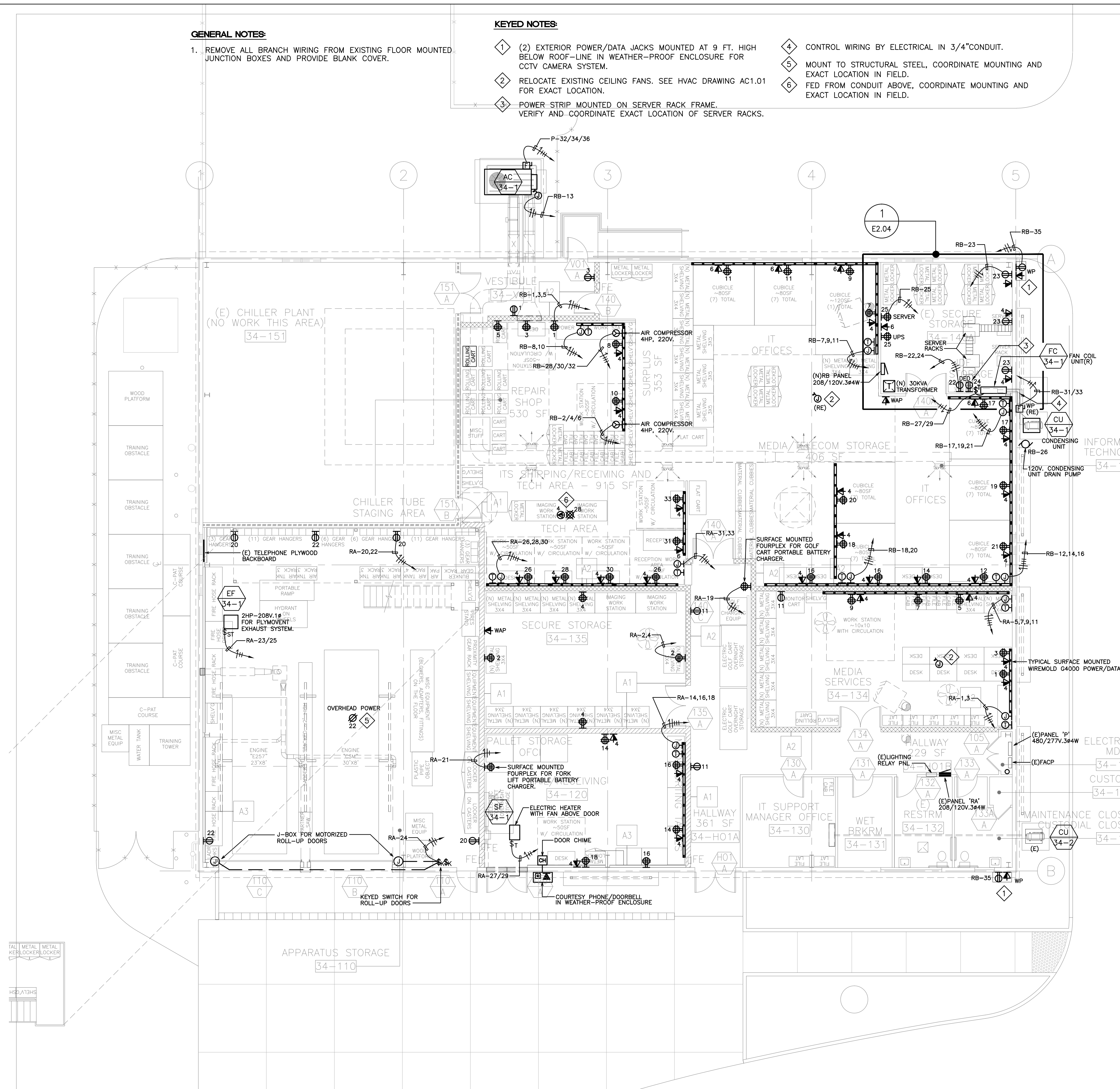
E2.01

GENERAL NOTES:

- REMOVE ALL BRANCH WIRING FROM EXISTING FLOOR MOUNTED JUNCTION BOXES AND PROVIDE BLANK COVER.

KEYED NOTES:

- (2) EXTERIOR POWER/DATA JACKS MOUNTED AT 9 FT. HIGH BELOW ROOF-LINE IN WEATHER-PROOF ENCLOSURE FOR CCTV CAMERA SYSTEM.
- RELOCATE EXISTING CEILING FANS. SEE HVAC DRAWING AC1.01 FOR EXACT LOCATION.
- POWER STRIP MOUNTED ON SERVER RACK FRAME. VERIFY AND COORDINATE EXACT LOCATION OF SERVER RACKS.
- CONTROL WIRING BY ELECTRICAL IN 3/4" CONDUIT.
- MOUNT TO STRUCTURAL STEEL, COORDINATE MOUNTING AND EXACT LOCATION IN FIELD.
- FED FROM CONDUIT ABOVE, COORDINATE MOUNTING AND EXACT LOCATION IN FIELD.



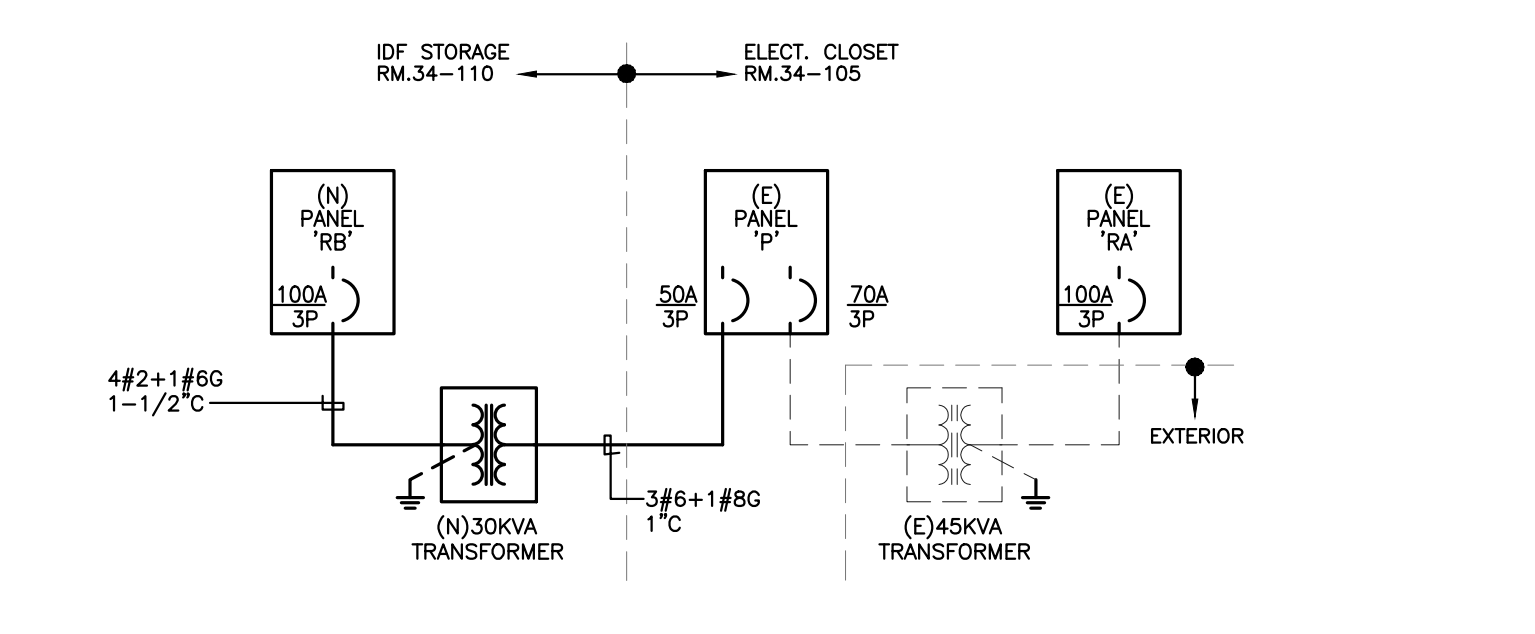
1 FLOOR PLAN - BUILDING 34
E2.02

1/8" = 1'-0" NORTH

Panel (E) P Bus 225A Main Lugs NEMA 1		Voltage 277/480V, 3PH, 4W KAIC Location RM.34-105 Mounting SURFACE		Ground bus X Isolated Ground Bus Neutral 100 %	
Ckt.	Description	CB	Type	Load	Ph.
1	Overhead light	20/1	L	1152	A
2	Overhead light	20/1	L	1152	B
3	Overhead light	20/1	L	1795	C
4	Overhead light	20/1	L	1000	B
5	Overhead light	20/1	L	1000	B
6	Overhead light	20/1	L	1000	B
7	Overhead light	20/1	L	1000	B
8	Overhead light	20/1	L	1000	B
9	Overhead light	20/1	L	1000	B
10	Overhead light	20/1	L	1000	B
11	Overhead light	20/1	L	1000	B
12	Overhead light	20/1	L	1000	B
13	Overhead light	20/1	L	1000	B
14	Overhead light	20/1	L	1000	B
15	Overhead light	20/1	L	1000	B
16	Overhead light	20/1	L	1000	B
17	Overhead light	20/1	L	1000	B
18	Overhead light	20/1	L	1000	B
19	Overhead light	20/1	L	1000	B
20	Overhead light	20/1	L	1000	B
21	Overhead light	20/1	L	1000	B
22	Overhead light	20/1	L	1000	B
23	Overhead light	20/1	L	1000	B
24	Overhead light	20/1	L	1000	B
25	Overhead light	20/1	L	1000	B
26	Overhead light	20/1	L	1000	B
27	Overhead light	20/1	L	1000	B
28	Overhead light	20/1	L	1000	B
29	Overhead light	20/1	L	1000	B
30	Overhead light	20/1	L	1000	B
31	Overhead light	20/1	L	1000	B
32	Overhead light	20/1	L	1000	B
33	Overhead light	20/1	L	1000	B
34	Overhead light	20/1	L	1000	B
35	Overhead light	20/1	L	1000	B
36	Overhead light	20/1	L	1000	B
37	Overhead light	20/1	L	1000	B
38	Overhead light	20/1	L	1000	B
39	Overhead light	20/1	L	1000	B
40	Overhead light	20/1	L	1000	B
41	Overhead light	20/1	L	1000	B
Type:		Connected	Demand	Ph.	
C	Computer	4,900	2,450	A	5800
H	HVAC	5,000	5,375	B	6650
K	Kitchen	-	-	C	5600
L	Lighting	-	-	-	-
M	Misc.	8,150	8,150	-	-
R	Recept.	18,050	15,975	-	-
Total		167,530	172,776	=	208

Panel (E) RA Bus 225A Main Lugs NEMA 1		Voltage 208/120V, 3PH, 4W KAIC 12 Location RM.34-105 Mounting SURFACE		Ground bus X Isolated Ground Bus Neutral 100 %	
Ckt.	Description	CB	Type	Load	Ph.
1	Media Services Stations - Wiremold	20/1	C	350	A
2	Media Services Stations - Wiremold	20/1	C	350	B
3	Media Services Stations - Wiremold	20/1	C	350	C
4	Media Services Stations - Wiremold	20/1	C	350	A
5	Media Services Stations - Wiremold	20/1	C	350	B
6	Media Services Stations - Wiremold	20/1	C	350	C
7	Media Services Stations - Wiremold	20/1	C	350	A
8	Media Services Stations - Wiremold	20/1	C	350	B
9	Media Services Stations - Wiremold	20/1	C	350	C
10	Media Services Stations - Wiremold	20/1	C	350	A
11	Media Services Stations - Wiremold	20/1	C	350	B
12	Media Services Stations - Wiremold	20/1	C	350	C
13	Media Services Stations - Wiremold	20/1	C	350	A
14	Media Services Stations - Wiremold	20/1	C	350	B
15	Media Services Stations - Wiremold	20/1	C	350	C
16	Media Services Stations - Wiremold	20/1	C	350	A
17	Media Services Stations - Wiremold	20/1	C	350	B
18	Media Services Stations - Wiremold	20/1	C	350	C
19	Media Services Stations - Wiremold	20/1	C	350	A
20	Media Services Stations - Wiremold	20/1	C	350	B
21	Media Services Stations - Wiremold	20/1	C	350	C
22	Media Services Stations - Wiremold	20/1	C	350	A
23	Media Services Stations - Wiremold	20/1	C	350	B
24	Media Services Stations - Wiremold	20/1	C	350	C
25	Media Services Stations - Wiremold	20/1	C	350	A
26	Media Services Stations - Wiremold	20/1	C	350	B
27	Media Services Stations - Wiremold	20/1	C	350	C
28	Media Services Stations - Wiremold	20/1	C	350	A
29	Media Services Stations - Wiremold	20/1	C	350	B
30	Media Services Stations - Wiremold	20/1	C	350	C
31	Media Services Stations - Wiremold	20/1	C	350	A
32	Media Services Stations - Wiremold	20/1	C	350	B
33	Media Services Stations - Wiremold	20/1	C	350	C
34	Media Services Stations - Wiremold	20/1	C	350	A
35	Media Services Stations - Wiremold	20/1	C	350	B
36	Media Services Stations - Wiremold	20/1	C	350	C
37	Media Services Stations - Wiremold	20/1	C	350	A
38	Media Services Stations - Wiremold	20/1	C	350	B
39	Media Services Stations - Wiremold	20/1	C	350	C
40	Media Services Stations - Wiremold	20/1	C	350	A
41	Media Services Stations - Wiremold	20/1	C	350	B
Type:		Connected	Demand	Ph.	
C	Computer	4,900	2,450	A	5800
H	HVAC	5,000	5,375	B	6650
K	Kitchen	-	-	C	5600
L	Lighting	-	-	-	-
M	Misc.	8,150	8,150	-	-
R	Recept.	18,050	15,975	-	-
Total		18,050	15,975	=	44

Panel RB Bus 100A Main Lugs NEMA 1		Voltage 208/120V, 3PH, 4W KAIC 10 Location RM.34-110 Mounting SURFACE		Ground bus X Isolated Ground Bus Neutral 100 %	
Ckt.	Description	CB	Type	Load	Ph.
1	Repair Shop Work Stations	20/1	R	1000	A
2	Repair Shop Work Stations	20/1	R	1000	B
3	Repair Shop Work Stations	20/1	R	1000	C
4	Repair Shop Work Stations	20/1	R	1000	A
5	Repair Shop Work Stations	20/1	R	1000	B
6	Repair Shop Work Stations	20/1	R	1000	C
7	Repair Shop Work Stations	20/1	R	1000	A
8	Repair Shop Work Stations	20/1	R	1000	B
9	Repair Shop Work Stations	20/1	R	1000	C
10	Repair Shop Work Stations	20/1	R	1000	A
11	Repair Shop Work Stations	20/1	R	1000	B
12	Repair Shop Work Stations	20/1	R	1000	C
13	Repair Shop Work Stations	20/1	R	1000	A
14	Repair Shop Work Stations	20/1	R	1000	B
15	Repair Shop Work Stations	20/1	R	1000	C
16	Repair Shop Work Stations	20/1	R	1000	A
17	Repair Shop Work Stations	20/1	R	1000	B
18	Repair Shop Work Stations	20/1	R	1000	C
19	Repair Shop Work Stations	20/1	R	1000	A
20	Repair Shop Work Stations	20/1	R	1000	B
21	Repair Shop Work Stations	20/1	R	1000	C
22	Repair Shop Work Stations	20/1	R	1000	A
23	Repair Shop Work Stations	20/1	R	1000	B
24	Repair Shop Work Stations	20/1	R	1000	C
25	Repair Shop Work Stations	20/1	R	1000	A
26	Repair Shop Work Stations	20/1	R	1000	B
27	Repair Shop Work Stations	20/1	R	1000	C
28	Repair Shop Work Stations	20/1	R	1000	A
29	Repair Shop Work Stations	20/1	R	1000	B
30	Repair Shop Work Stations	20/1	R	1000	C
31	Repair Shop Work Stations	20/1	R	1000	A
32	Repair Shop Work Stations	20/1	R	1000	B
33	Repair Shop Work Stations	20/1	R	1000	C
34	Repair Shop Work Stations	20/1	R	1000	A
35	Repair Shop Work Stations	20/1	R	1000	B
36	Repair Shop Work Stations	20/1	R	1000	C
37	Repair Shop Work Stations	20/1	R	1000	A
38	Repair Shop Work Stations	20/1	R	1000	B
39	Repair Shop Work Stations	20/1	R	1000	C
40	Repair Shop Work Stations	20/1	R	1000	A
41	Repair Shop Work Stations	20/1	R	1000	B
Type:		Connected	Demand	Ph.	
C	Computer	5,950	2,975	A	8164
H	HVAC	6,850	7,288	B	7814
K	Kitchen	-	-	C	6214
L	Lighting	-	-	-	-
M	Misc.	6,342	6,342	-	-
R	Recept.	3,050	3,050	-	-
Total		22,192	19,655	=	55



2 PARTIAL ELECTRICAL SINGLE-LINE
E2.02

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DAN BORESCH
E18955
12/3/14
RENEWAL DATE
2/1/11

CONSTRUCTION DOCUMENTS

COLLEGE OF SAN MATEO

BUILDING 34
MODERNIZATION

SMCCCD
3401 CSM Drive
San Mateo, CA 94402
College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE

**BUILDING 34
FLOOR/SIGNAL
POWER PLAN**

REVISIONS

NO.	DATE	DESCRIPTION
10/28/10	50X CD	
12/03/10	90X CD	
01/18/11	PROGRESS SET	
01/26/11	CONSTRUCTION SET	
02/04/11	CONSTRUCTION SET	

DATE	FEBRUARY 04, 2011
DRAWN	RF
CHECKED	GG
SCALE	1/8" = 1'-0"
N&T JOB NO.:	2901.4
SHEET NUMBER	

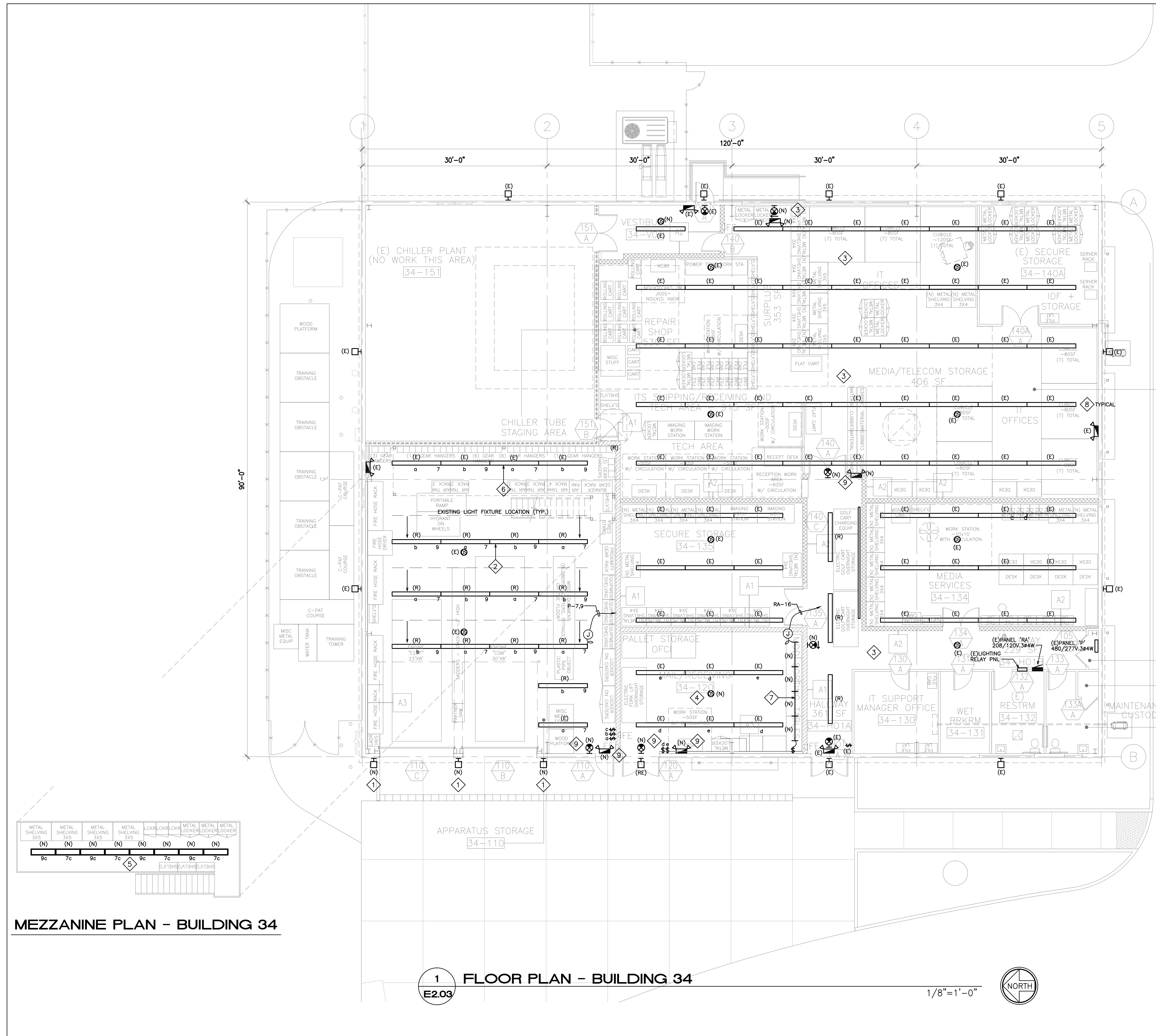
E2.02

SHEET TITLE
BUILDING 34 LIGHTING FLOOR PLAN

REVISIONS		
NO.	DATE	DESCRIPTION
10/28/10		50% CD
12/03/10		90% CD
01/18/11		PROGRESS SET
01/26/11		CONSTRUCTION SET
02/04/11		CONSTRUCTION SET

DATE	FEBRUARY 04, 2011
DRAWN	RF
CHECKED	GG
SCALE	1/8" = 1'-0"
N&T JOB NO.:	2901.4

SHEET NUMBER
E2.03



- KEYED NOTES:**
- 1 NEW EXTERIOR WALL MOUNTED LIGHT FIXTURE WITH RED LENS REFLECTOR COVER. TO BE FED FROM EXISTING EXTERIOR LIGHTING CIRCUIT ON PANEL 'P'.
 - 2 RELOCATE & SHIFT DOWN EXISTING LIGHT FIXTURES IN THIS AREA TO ACCOMMODATE CLEARANCE FOR MEZZANINE STAIR AREA.
 - 3 ALL EXISTING LIGHTING CONTROL IN THIS AREA TO REMAIN.
 - 4 VERIFY AND COORDINATE CEILING HEIGHT IN THIS AREA.
 - 5 NEW 1'x4' LIGHT FIXTURES MOUNTED BELOW MEZZANINE LEVEL.
 - 6 ALLOW OVERHEAD CLEARANCE FOR MEZZANINE LIGHTING IN THIS AREA.
 - 7 NEW 4' STRIP LIGHTS IN SORTING TABLE AREA.
 - 8 ALL EXISTING LIGHT FIXTURES @ 12' AFF.
 - 9 ALL NEW EXIT SIGNS AND EM LIGHTS TO BE FED FROM EXISTING CIRCUITS.

INFORMATION TECHNOLOGY
 34-140

ELECTRICAL/ MDF/
 34-105
 CUSTODIAL
 34-133A
 MAINTENANCE CLOSET/FIRE PANEL/
 CUSTODIAL CLOSET/RESTROOM
 34-133

MEZZANINE PLAN - BUILDING 34

1 FLOOR PLAN - BUILDING 34
 E2.03

1/8" = 1'-0"



Fire Alarm System For COLLEGE OF SAN MATEO BUILDING 34 1700 W. Hillsdale Boulevard San Mateo, California 94403

DRAWING INDEX

SHEET NUMBER	SHEET TITLE	CAD FILE NAME
FA-01	COVER SHEET/ FIRE ALARM EQUIPMENT LIST/ SCOPE OF WORK	44OP-083436.DWG
FA-02	MISCELLANEOUS NOTES/ EXISTING SEQUENCE OF OPERATIONS	44OP-083436.DWG
FA-03	EXISTING MXL PANEL AND UPDATED CALCULATIONS	44OP-083436.DWG
FA-04	WIRING OF DEVICES	44OP-083436.DWG
FA-05	BUILDING 34 FIRE ALARM RISER DIAGRAM	44OP-083436.DWG
FA-06	FIRE ALARM PLAN BUILDING 34	44OP-083436.DWG

FIRE ALARM EQUIPMENT LIST

CATE-GORY	ITEM NO.	SYMBOL	QTY	MODEL NUMBER	DESCRIPTION	MANUFACTURER	DATA SHEET NUMBER	CALIFORNIA STATE FIRE MARSHAL LISTING NUMBER
	1	F	2	MSI-10B	INTELLIGENT MANUAL PULL STATION	SIEMENS	6187	7150-0067:0036
	2	SD	1	FP-11	INTELLIGENT SMOKE DETECTOR	SIEMENS	6175	7272-0067:0203
	3		1	DB-11	DETECTOR BASE FOR FP-11	SIEMENS	6175	7300-0067:0134
	4	DD _{WP}	1	ILP-1	INTELLIGENT PHOTOELECTRIC DETECTOR	SIEMENS	6164	7272-0067:0162
	5		1	AD-3ILP	AIR DUCT HOUSING FOR ILP-1	SIEMENS	6124	3240-0067:0116
	6		1	STA-2	SAMPLING TUBE FOR DUCTS 9" TO 1'9"	SIEMENS	6124	----
	7		1	DA-X3SR	REALAY BOARD FOR AD-3ILP	SIEMENS	6124	----
	8		1	EAD-3	WEATHER PROOF ENCLOSURE FOR DUCT HOUSING	SIEMENS	6124	----
	9	H _{CP}	4	STR	MULTI CANDELA WALL-MOUNTED STROBE, 15cd	WHEELOCK	---	7125-0785:0168
	10				MULTI CANDELA WALL-MOUNTED STROBE, 30cd	WHEELOCK	---	7125-0785:0168
	11				MULTI CANDELA WALL-MOUNTED STROBE, 75cd	WHEELOCK	---	7125-0785:0168
	12				MULTI CANDELA WALL-MOUNTED STROBE, 110cd	WHEELOCK	---	7125-0785:0168
	13	H _{CD}	2	HSR	MULTI CANDELA WALL-MOUNTED HORN/STROBE, 15cd	WHEELOCK	---	7125-0785:0168
	14				MULTI CANDELA WALL-MOUNTED HORN/STROBE, 30cd	WHEELOCK	---	7125-0785:0168
	15				MULTI CANDELA WALL-MOUNTED HORN/STROBE, 75cd	WHEELOCK	---	7125-0785:0168
	16				MULTI CANDELA WALL-MOUNTED HORN/STROBE, 110cd	WHEELOCK	---	7125-0785:0168

GENERAL ELECTRICAL NOTES

- ALL WIRING AND INSTALLATION MUST CONFORM WITH PROJECT SPECIFICATIONS, APPLICABLE CODE SUMMARIES, DRAWINGS AND REQUIREMENTS ADOPTED BY NFPA.
- SMOKE DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIRFLOW NOR CLOSER THAN 3 FEET FROM AIR SUPPLY DIFFUSER OR RETURN AIR OPENING PER NFPA 72 2010 EDITION.
- ALL SMOKE DETECTORS AND INITIATING DEVICES WIRING SHALL BE INSTALLED MINIMUM 3 FEET FROM ELECTRONIC BALLAST (LIGHTING FIXTURES).
- WHEN INSTALLING INITIATING AND NOTIFICATION DEVICES, POLARITY MUST BE OBSERVED.
- ALL NOTIFICATION CIRCUIT WIRES MUST BE SUPERVISED. HENCE, NO PARALLEL BRANCHING OF WIRES IS PERMISSIBLE (T-TAPPING). ALL AUDIBLE SIGNALING DEVICES SHALL PRODUCE A DISTINCTIVE THREE-PULSE TEMPORAL TONE. AUDIBLE SIGNALS SHALL HAVE A SOUND LEVEL OF NOT LESS THAN 75dba AT 10' OR AT LEAST 15dba ABOVE THE AVERAGE AMBIENT SOUND LEVEL, WHICHEVER IS GRATER, BUT NOT MORE THAN 110dba AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE (PER NFPA 72 2010 ED.) WHEN MORE THAN TWO (2) VISUAL DEVICES ARE IN THE SAME VIEWING PLANE THE VISUAL DEVICES SHALL BE SYNCHRONIZED AS REQUIRED BY NFPA 2010 EDITION.
- DO NOT INSTALL ADDRESSABLE DEVICES PRIOR TO PROGRAMMING. (SEE NOTE 15)
- ALL 24 VDC WIRE TO BE INSTALLED IN DEDICATED CONDUIT SEPARATE FROM 120 VAC WIRING, IN ACCORDANCE WITH CURRENT NATIONAL AND STATE ELECTRICAL CODES.
- CONDUIT SIZING TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR AND SHALL CONFORM TO CONDUIT FILL CAPACITIES AS PER REQUIREMENTS OF CURRENT EDITIONS OF NATIONAL AND STATE ELECTRICAL CODES.
- DO NOT APPLY 120 VAC POWER TO CONTROL PANEL UNTIL A SIEMENS FIRE SAFETY SERVICE TECHNICIAN HAS INSPECTED ALL SYSTEM WIRING CONNECTIONS AND HAS APPROVED THE SYSTEM TO BE TURNED ON.
- ALL PLUG-IN TYPE DETECTORS REQUIRE A 4" OCTAGONAL, 1-1/2" OR DEEPER MOUNTING BOX. REFER TO DETAIL DRAWINGS FOR DEVICE WIRING AND MOUNTING CONDITIONS.
- 120 VAC INPUT CONNECTIONS TO THE FIRE ALARM CONTROL PANEL LIGHT AND POWER SERVICE SHALL BE ON DEDICATED BRANCH CIRCUIT(S). THE CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED. CIRCUIT DISCONNECTION MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS FIRE ALARM CIRCUIT CONTROL. THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
- INSTALLATION MATERIALS SUCH AS CONDUITS, FITTINGS, JUNCTION BOXES, TERMINAL CABINETS, PULL BOXES, HANGERS, ETC. ARE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL WIRING IS TO BE FROM DEVICE TERMINAL TO DEVICE TERMINAL SPLICES AND WIRE NUTS ARE NOT ACCEPTABLE.
- ANY DEVIATION FROM THE DESIGN AND LOCATION OF EQUIPMENT SHOWN MUST FIRST HAVE A WRITTEN APPROVAL FROM SIEMENS FIRE SAFETY. ANY DEVIATION FROM DESIGN MUST ALSO BE INDICATED ON SIEMENS FIRE SAFETY SHOP DRAWINGS (BLUEPRINTS) AND RETURNED TO SIEMENS FIRE SAFETY AT TIME OF JOB COMPLETION.
- SHOWN IN THIS DRAWING SET IS SIEMENS FIRE SAFETY ENGINEERED FIRE ALARM SYSTEM PER CONTRACTUAL DESIGN DRAWINGS AND SPECIFICATIONS.
 - CONTRACTOR SHALL NOT DEVIATE BY NOT MORE THAN 5% FROM THE FINAL APPROVED SHOP DRAWINGS.
 - WIRE RUNS HAVE BEEN ENGINEERED TO COMPLY WITH SPECIFIC VOLTAGE DROP REQUIREMENTS. ANY DEVIATION FROM SHOWN WIRE RUNS WHICH RESULTS IN NONCOMPLIANCE WITH VOLTAGE DROP REQUIREMENTS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
 - THESE SUBMITTED SHOP DRAWINGS ARE COMPLETE. SIEMENS FIRE SAFETY SHALL NOT BEAR ANY ADDITIONAL COSTS OF RE-ENGINEERING RECORD DRAWINGS (AS-BUILTS).
- ALL SMOKE DETECTORS (NEW OR EXISTING) SHALL BE PROTECTED FROM DUST AND DEBRIS DURING CONSTRUCTION. SMOKE-SENSING DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEANUP OF ALL TRADES IS COMPLETE AND FINAL. PER NFPA 72 2010 EDITION.
Exception: WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR PROTECTION DURING CONSTRUCTION. DETECTORS THAT HAVE BEEN INSTALLED DURING CONSTRUCTION AND FOUND TO HAVE A SENSITIVITY OUTSIDE THE LISTED AND MARKED SENSITIVITY RANGE SHALL BE CLEANED OR REPLACED AT AN ADDITIONAL COST TO THE CONTRACTOR.
- POWER SERVICES SHALL BE ON A DEDICATED BRANCH CIRCUIT WIT A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL"
- PROVIDE TEMPORAL-THREE DISTINCTIVE FIRE ALARM SOUND.
- THE STROBE FLASH RATE SHALL NOT EXCEED TWO (2) FLASHES PER SECOND NOR BE LESS THAN ONE FLASH PER SECOND.
- FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.
- FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TEST.

SCOPE OF WORK

Presented herein is the fire alarm system modifications for the building remodel which include a slight reconfiguring of notification devices and the addition of two pull stations. System status changes report to the campus fire alarm system and will then be sent to the existing campus monitoring company.

MXL - FIRE ALARM SYSTEM WIRING GUIDELINES

- ALL WIRING MUST COMPLY WITH LOCAL AND CALIFORNIA ELECTRICAL CODES. ALL WIRING MUST BE DONE AS DESCRIBED IN NOTES 2 & 6 BELOW, TO OBTAIN SAFE AND PROPER SYSTEM OPERATION.
- EARTH GROUND THE MXL ENCLOSURE PROPERLY; SEE LATEST EDITION OF NATIONAL ELECTRICAL CODES FOR APPROVED METHODS. CONDUIT GROUND IS NOT ADEQUATE.
- SEPARATE ALL WIRING FOR INITIATING DEVICES (i.e., DETECTORS, MANUAL STATIONS, TRI MODULES, ETC) FROM ALL OTHER WIRING IN THE MXL-IQ ENCLOSURE.
- INSULATE ALL CABLE DRAIN WIRES FROM ANY CONDUIT OR OTHER EARTH GROUNDED ELECTRICAL BOX, INCLUDING THOSE IN THE MXL ENCLOSURE.
- CONNECT SHIELD CABLE DRAIN WIRE ONLY AT SPECIFIED LOCATION INSIDE THE MXL ENCLOSURE.
- EARTH GROUND ALL CONDUIT RUNS THROUGHOUT THE INSTALLATION.
- LINE RESISTANCE IS MEASURED AT THE ALD-2I MODULE SCREW TERMINALS. THE END OF THE LOOP MUST BE SHORTED, THE ALD-2I MODULE MUST BE REMOVED FROM THE SCREW TERMINALS, AND NO ADDRESSABLE DEVICES MAY BE INSTALLED.
- LINE CAPACITANCE IS MEASURED AT THE ALD-2I MODULE SCREW TERMINALS THE END OF THE LOOP(S) MUST BE OPEN. THE ALD-2I MODULE MUST BE REMOVED FROM THE SCREW TERMINALS AND NO ADDRESSABLE DEVICES MAY BE INSTALLED.
- ALL 110/120 VAC CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT.
- ALD-2I LOOP WIRING MUST NOT BE IN THE SAME CONDUIT AS CODED AUDIBLE WIRING.
- ALL INITIATING CIRCUITS ARE RATED POWER LIMITED AND SHALL BE WIRED IN ACCORDANCE WITH APPLICABLE CODES.
- UNDERGROUND WIRING IS PERMISSIBLE IF ALL NEC WIRING REQUIREMENTS ARE MET.
- OVERHEAD OR EXTERIOR WIRING IS NOT RECOMMENDED.

CODE SUMMARY

2010	CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2010	CALIFORNIA BUILDING CODE PART 2, TITLE 24, CCR (2009 IBC AND 2010 CALIFORNIA AMENDMENTS)
2010	CALIFORNIA ELECTRICAL CODE PART 3, TITLE 24, CCR (2008 NEC AND 2010 CALIFORNIA AMENDMENTS)
2010	CALIFORNIA MECHANICAL CODE PART 4, TITLE 24, CCR (2009 UMC AND 2010 CALIFORNIA AMENDMENTS)
2010	CALIFORNIA PLUMBING CODE PART 5, TITLE 24, CCR (2009 UPC AND 2010 CALIFORNIA AMENDMENTS)
2010	CALIFORNIA FIRE CODE PART 9, TITLE 24, CCR (2009 IFC AND 2010 CALIFORNIA AMENDMENTS)
2010	NFPA 72 NATIONAL FIRE ALARM CODE AND ALL AMENDMENTS IN ADDITIONS TO THE ABOVE

BUILDING CONDITIONS

PROJECT LOCATION:
COLLEGE OF SAN MATEO
1700 WEST HILLDALE BOULEVARD
SAN MATEO, CA 94402

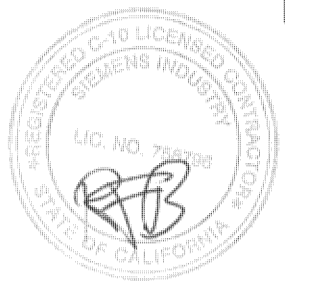
BUILDING OWNER:
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT
3401 CSM DRIVE SAN MATEO, CA 94402
TEL. 650-574-6512

ARCHITECT OF RECORD

noll & tam
architects and planners

729 Heinz Avenue
Berkeley, CA 94710
510.649.8295
fax 510.649.3008

STAMP



CONTRACTOR'S NAME & ADDRESS:

**CUPERTINO
ELECTRIC INC.**
1740 Cesar Chavez Street
San Francisco, CA 94124
Tel 415.970.3400 Fax 415.970.3434

PRODUCT MANUFACTURER:

**SIEMENS
Industry Inc.**

SAN FRANCISCO BRANCH
25821 Industrial Boulevard, Suite 300
Hayward, California 94545-2991
Tel (510) 783-8000 Fax (510) 293-2100
California State C10 License No. 758796
U.L. Certificate ID No. 324787-001

**COLLEGE OF
SAN MATEO**
BUILDING 34
MODERNIZATION

SMCCCD
3401 CSM Drive
San Mateo, CA 94402
College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE
**COVER/
DRAWING INDEX/
EQUIPMENT LIST**

REVISIONS

NO.	DATE	DESCRIPTION
	02/04/11	CONSTRUCTION SET

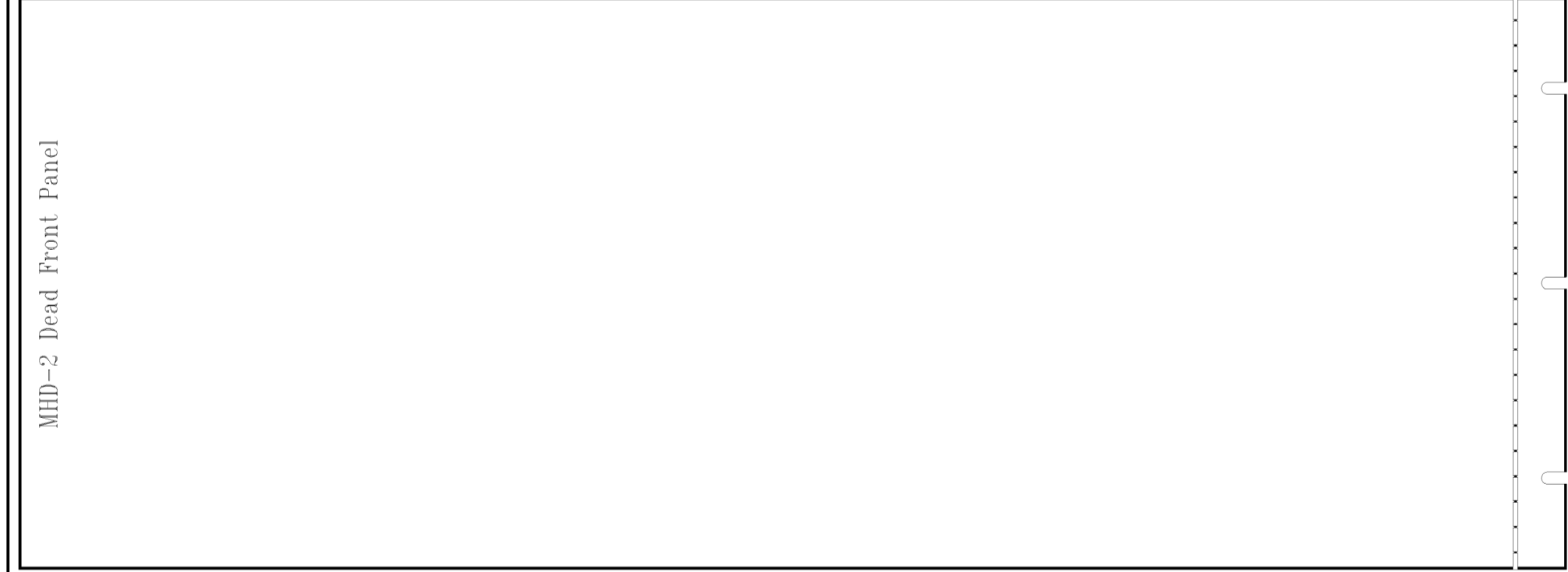
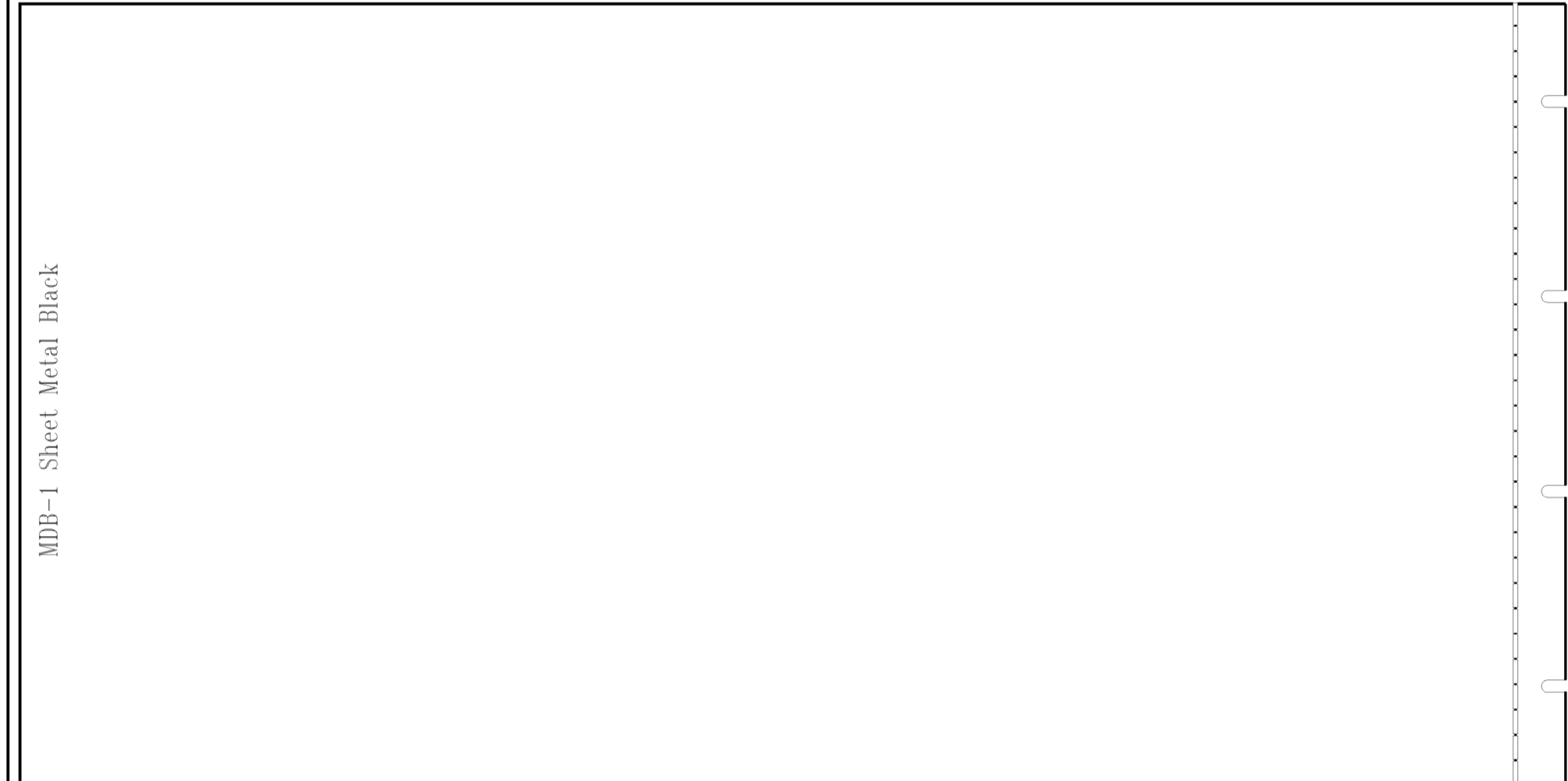
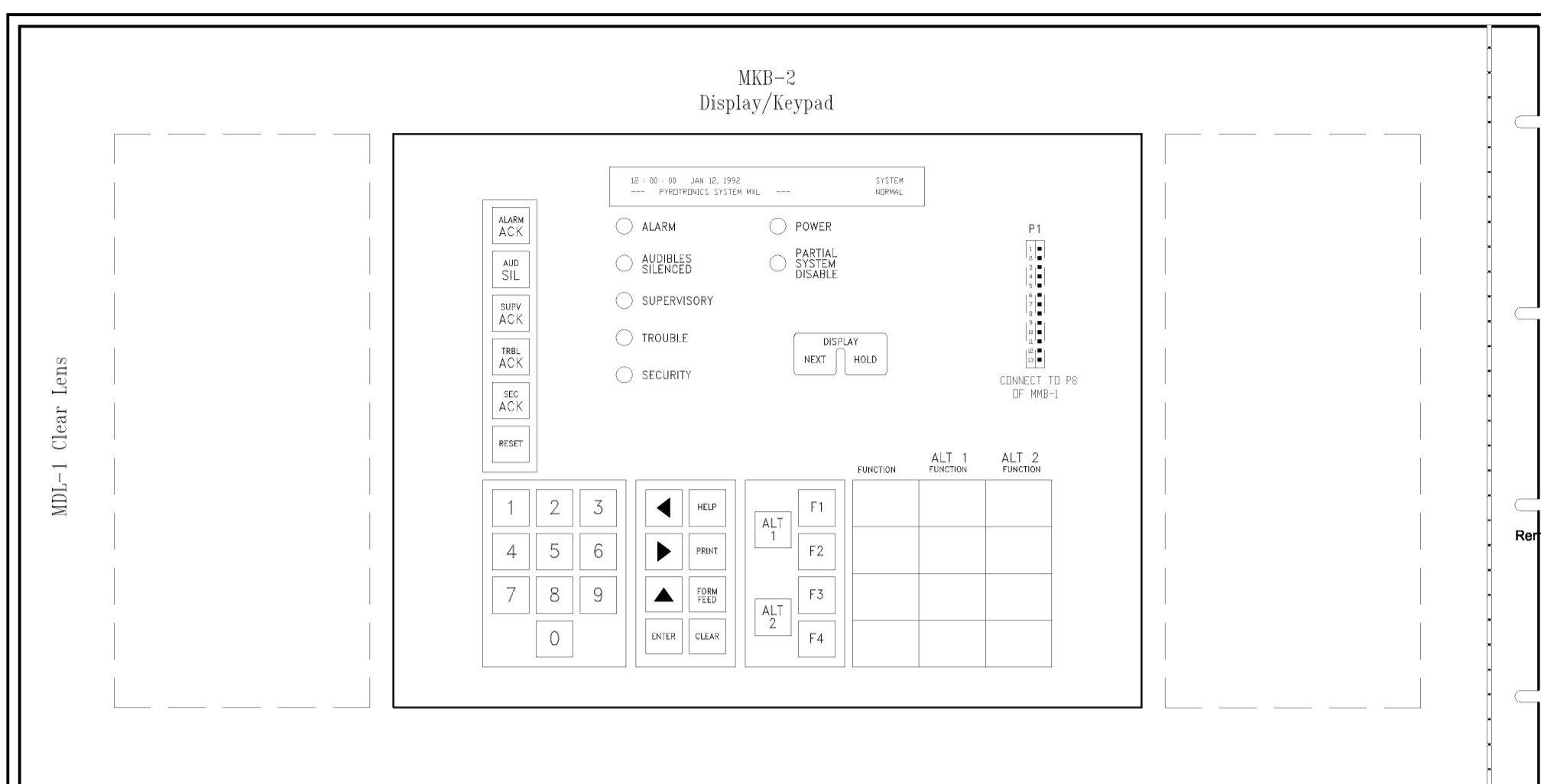
DATE FEBRUARY 04, 2011

DRAWN RB
CHECKED MM
SCALE NA
N&T JOB NO.: 2901.4

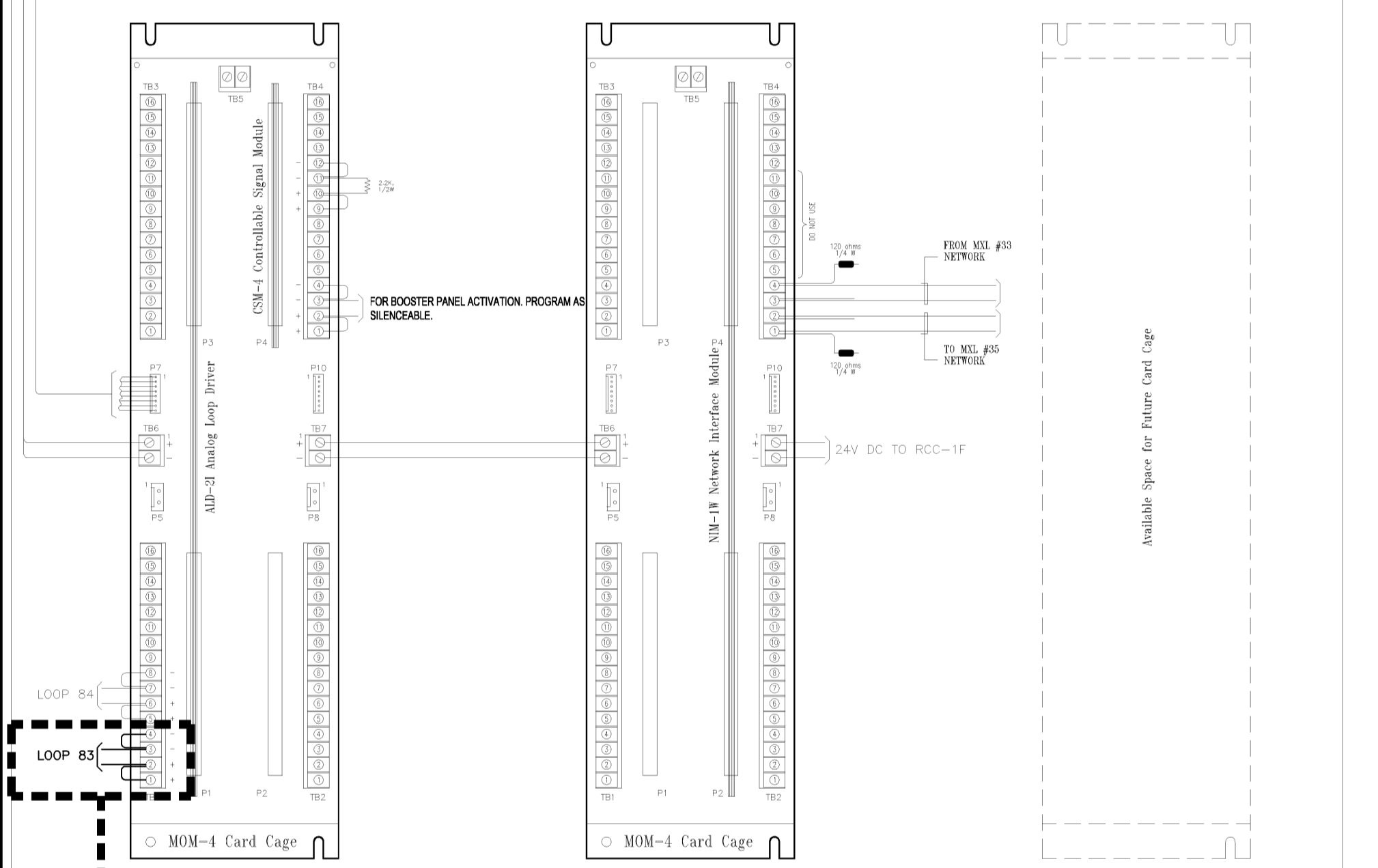
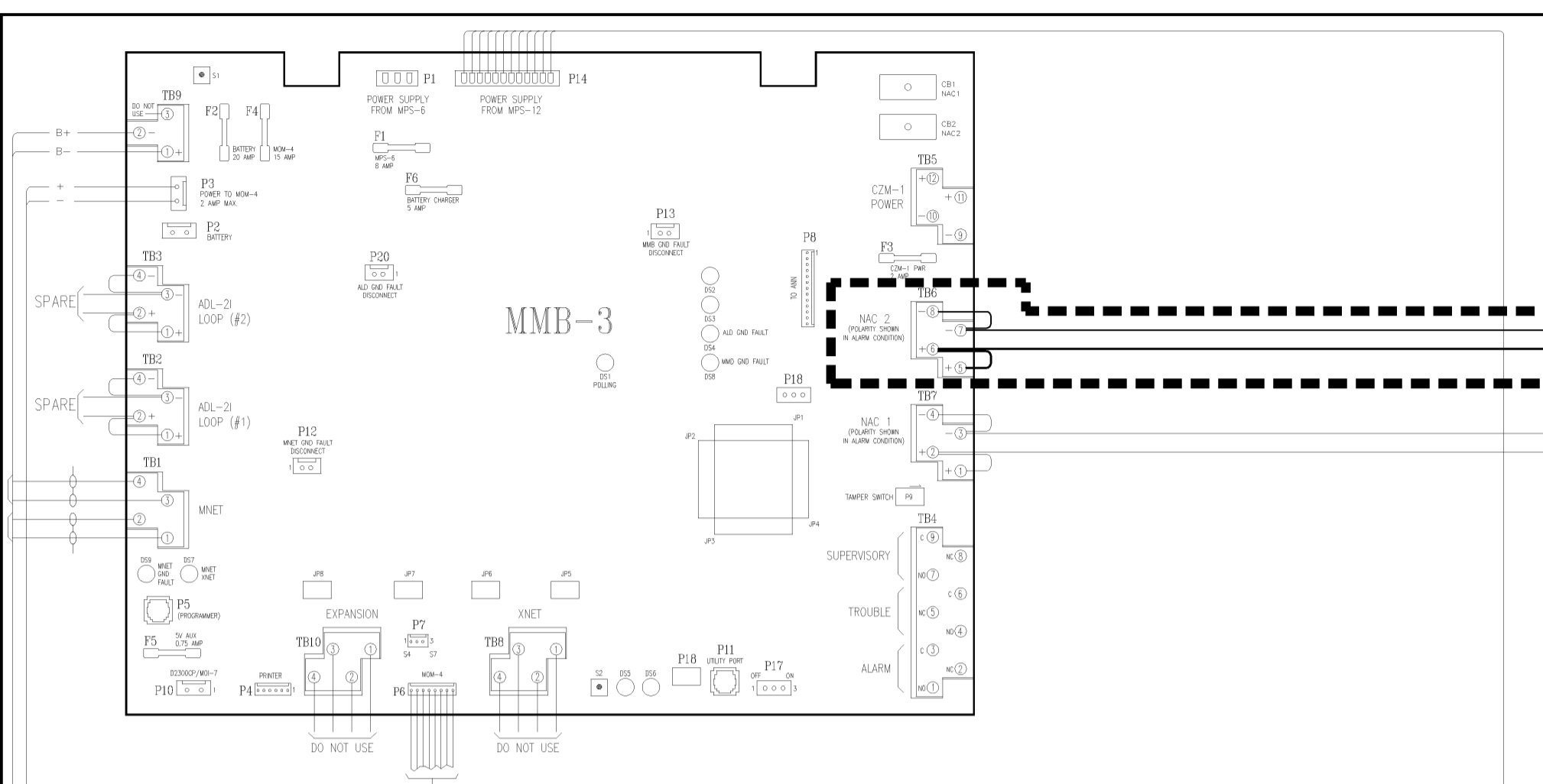
SHEET NUMBER

FA-01

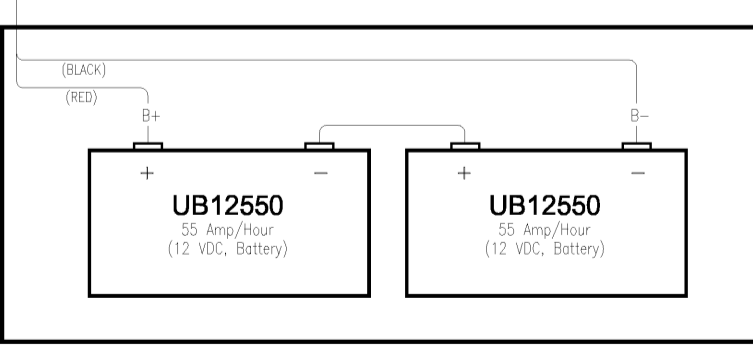
JOB NUMBER: 44OP-083436 NET NUMBER: 5284222



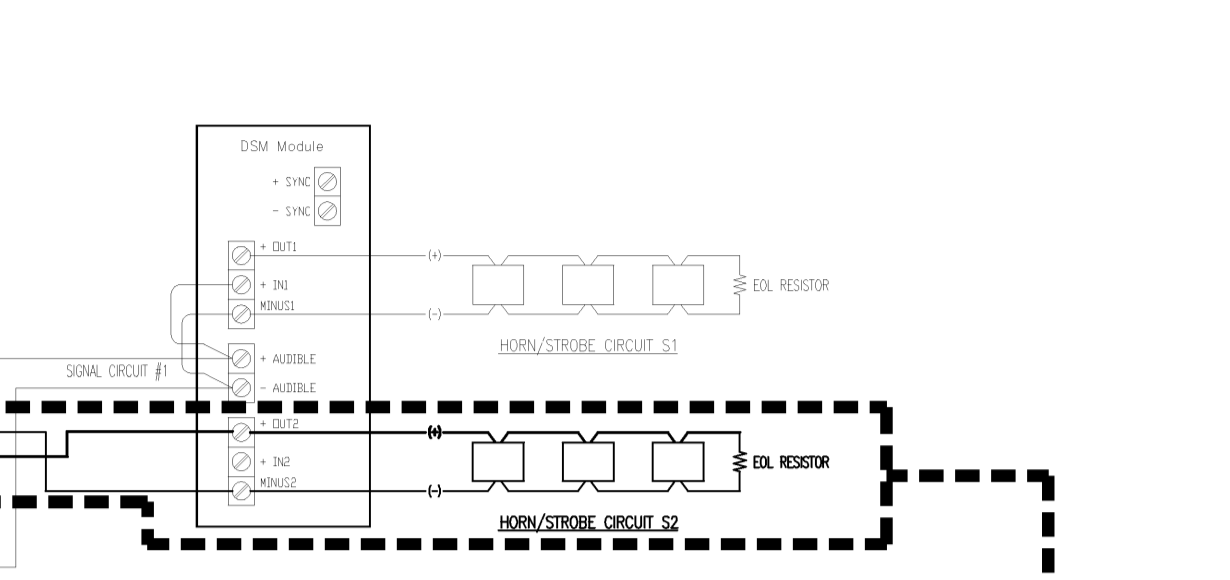
MXL PANEL ENCLOSURE CONSISTING OF:
 MBR-2 Backbox
 MDR-2 Door



MXL PANEL ENCLOSURE CONSISTING OF:
 MBR-2 Backbox
 MDR-2 Door



Internal View



DSM DUAL SYNC CONTROL UNIT (Mount Adjacent to FATC) to HORN/STROBE CIRCUITS

- NOTE:
- 1) MAXIMUM TO 20 DSM INTERCONNECTED TOGETHER.
 - 2) MAXIMUM OF 1000 FEET FROM THE 1ST DSM TO THE LAST DSM MODULE.
 - 3) MAXIMUM OF #18 AWG WIRE CAN BE USED FOR SYNCHRONIZING ALL DSM MODULES.
 - 4) USE APPROPRIATE END-OF-LINE RESISTOR VALUES for:
 MXL F.A. CONTROL PANEL ----- 2.2K, 1/2 WATT
 ZC1-9B ZONE CONTROL CARD ----- 24K, 1/2 WATT
 PS-12/24-SMP EXTENDER PANEL ----- 2.2K, 1/2 WATT
 ICP INTELLIGENT CONTROL POINT ----- 15K, 1/2 WATT

SCOPE OF WORK

MXL BATTERY CALCULATION					
SUPERVISORY CURRENT					
DESCRIPTION	QTY	MODULE CURRENT	EOL CURRENT	DEVICE CURRENT	TOTAL ROW CURRENT
MMB-3 MAIN CONTROL BOARD	1	0.175			0.175
MKB-2 ANNUNCIATOR/KEYBOARD	1	0.005			0.005
ALD-2 ANALOG LOOP DRIVER	1	0.105			0.105
ALD LOOP	2			0.066	0.132
CSM-4 CONTROLLABLE SIGNAL MODULE	1	0.010			0.010
NOTIFICATION CIRCUITS	2		0.012		0.024
# ACTIVE RELAYS	0			0.015	0.000
NIM-1W NETWORK INTERFACE MODULE	1	0.150			0.150
RCC-1 REMOTE COMMAND CENTER	1	0.075			0.075
TOTAL CURRENT					0.676

ALARM CURRENT					
QTY & LOAD	DEVICE DESCRIPTION	QTY	DEVICE CURRENT RATING	DEVICE CURRENT	TOTAL ROW CURRENT
S1	(E)STROBE 15 CD	4	0.041		0.164
1.275	(E)STROBE 110 CD	1	0.140		0.14
	(E)HORN/STROBE 75CD	2	0.129		0.258
	(E)HORN/STROBE 110 CD	2	0.167		0.334
	STROBE 110CD	1	0.182		0.182
	HORN/STROBE 110CD	1	0.197		0.197
S2	(E)STROBE 15 CD	0	0.041		0
0.602	(E)STROBE 110 CD	0	0.14		0
	STROBE 75CD	3	0.135		0.405
	HORN/STROBE 110CD	1	0.197		0.197
	TOTAL ALARM CURRENT (AMPS)				1.877

SUMMARY	
A = TOTAL SUPERVISORY CURRENT x SUPERVISORY TIME REQUIRED 0.676 AMPS x 60 HR = 40.56 (AMP/HR)	SUPERVISORY TIME REQUIRED --- 60 HR ALARM TIME REQUIRED --- 5 MINS. or .083 HR
B = TOTAL ALARM CURRENT x ALARM TIME REQUIRED 1.877 AMPS x .083 HR = 0.156 (AMP/HR)	BATTERY PROVIDED..... UB12550 BATTERY SIZE..... 55 (AMP/HR)
C = A + B = 40.716 (AMP/HR)	TOTAL SYSTEM REQUIRED (A+H) BATTERY RESERVE AFTER 60 HOURS SUPERVISORY & 5 MINUTES ALARM (AMP/HOUR) = 14.284 AMP/HOUR

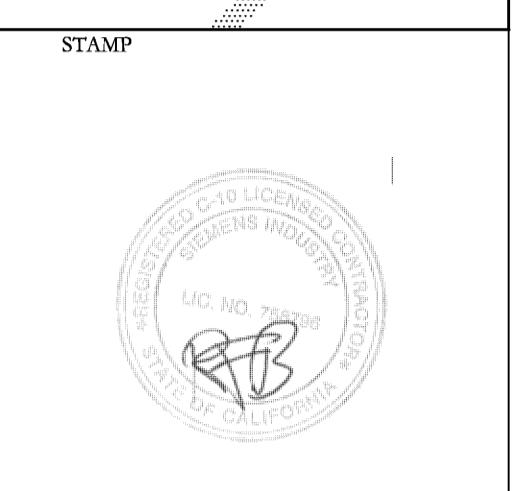
ACTUAL VOLTAGE DROP CALCS #12AWG			
QTY	DISTANCE (ft)	LOAD (amps)	VOLTAGE DROP (%)
S1	490	1.275	8.611
S2	230	0.602	1.908

(E)MXL - FIRE ALARM CONTROL PANEL
 Building 34, College of San Mateo

HIGHLIGHTED ITEMS ARE CONSIDERED

NEW SCOPE OF WORK

ARCHITECT OF RECORD
noll tam
 architects and planners
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 Berkeley, CA 94710
 510.649.8295
 fax 510.649.3008



CONTRACTOR'S NAME & ADDRESS:
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 Tel 415.970.3400 Fax 415.970.3434

PRODUCT MANUFACTURER:
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 SAN FRANCISCO BRANCH
 25821 Industrial Boulevard, Suite 300
 Hayward, California 94545-2991
 Tel (510) 783-6000 Fax (510) 293-2100
 California State C10 License No. 758796
 U.L. Certificate ID No. 324787-001

COLLEGE OF SAN MATEO
 BUILDING 34
 MODERNIZATION
 SMCCCD
 3401 CSM Drive
 San Mateo, CA 94402
 College of San Mateo
 1700 W. Hillside Blvd.
 San Mateo, CA 94402

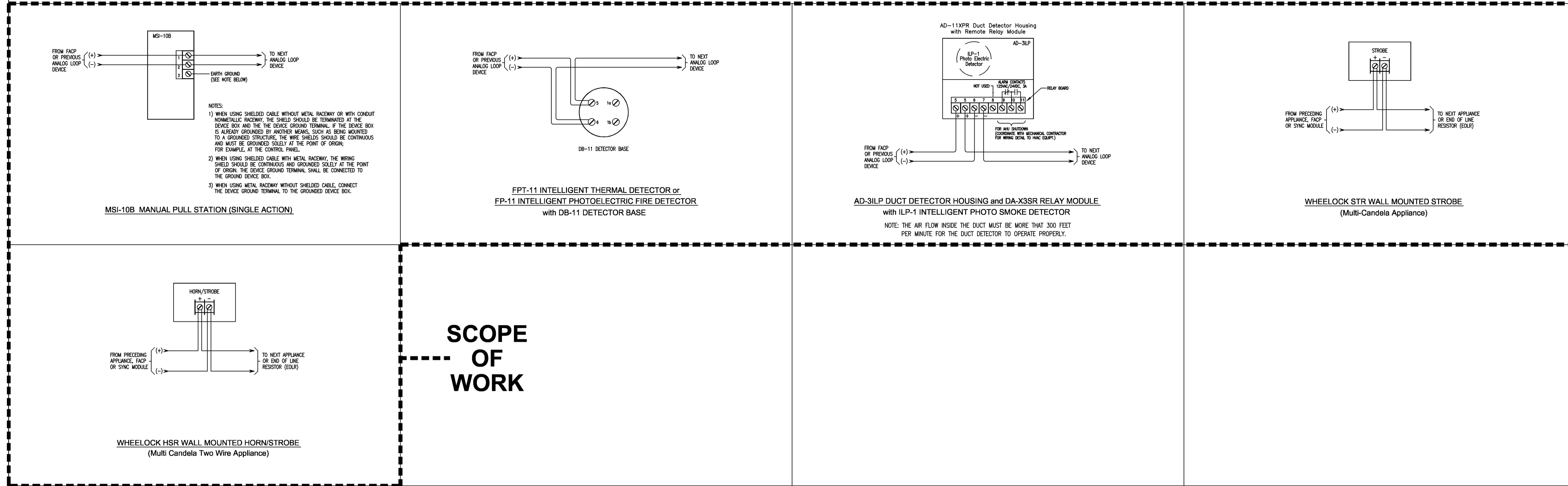
SHEET TITLE
(E) MXL FACP CALCULATIONS AND DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION
	02/04/11	CONSTRUCTION SET

DATE FEBRUARY 04, 2011
 DRAWN RB
 CHECKED MM
 SCALE NA
 N&T JOB NO.: 2901.4

SHEET NUMBER
FA-03
 JOB NUMBER: 44QP-083436 NET NUMBER: 5284222

TYPICAL WIRING OF FIELD DEVICES



HIGHLIGHTED ITEMS ARE CONSIDERED
NEW SCOPE OF WORK

ARCHITECT OF RECORD

noll & tam
 architects and planners

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 Berkeley, CA 94710
 510.649.8295
 fax 510.649.3008

STAMP

CONTRACTOR'S NAME & ADDRESS:

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 San Francisco, CA 94124
 Tel 415.970.3400 Fax 415.970.3434

PRODUCT MANUFACTURER:

SIEMENS Industry Inc.

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 Hayward, California 94545-2991
 Tel (510) 783-8000 Fax (510) 293-2100
 California State C10 License No. 758796
 U.L. Certificate ID No. 324787-001

COLLEGE OF SAN MATEO
 BUILDING 34
 MODERNIZATION

SMCCCD
 3401 CSM Drive
 San Mateo, CA 94402
 College of San Mateo
 1700 W. Hillsdale Blvd.
 San Mateo, CA 94402

SHEET TITLE
TYPICAL WIRING OF DEVICES

REVISIONS

NO.	DATE	DESCRIPTION
	02/04/11	CONSTRUCTION SET

DATE FEBRUARY 04, 2011

DRAWN RB

CHECKED MM

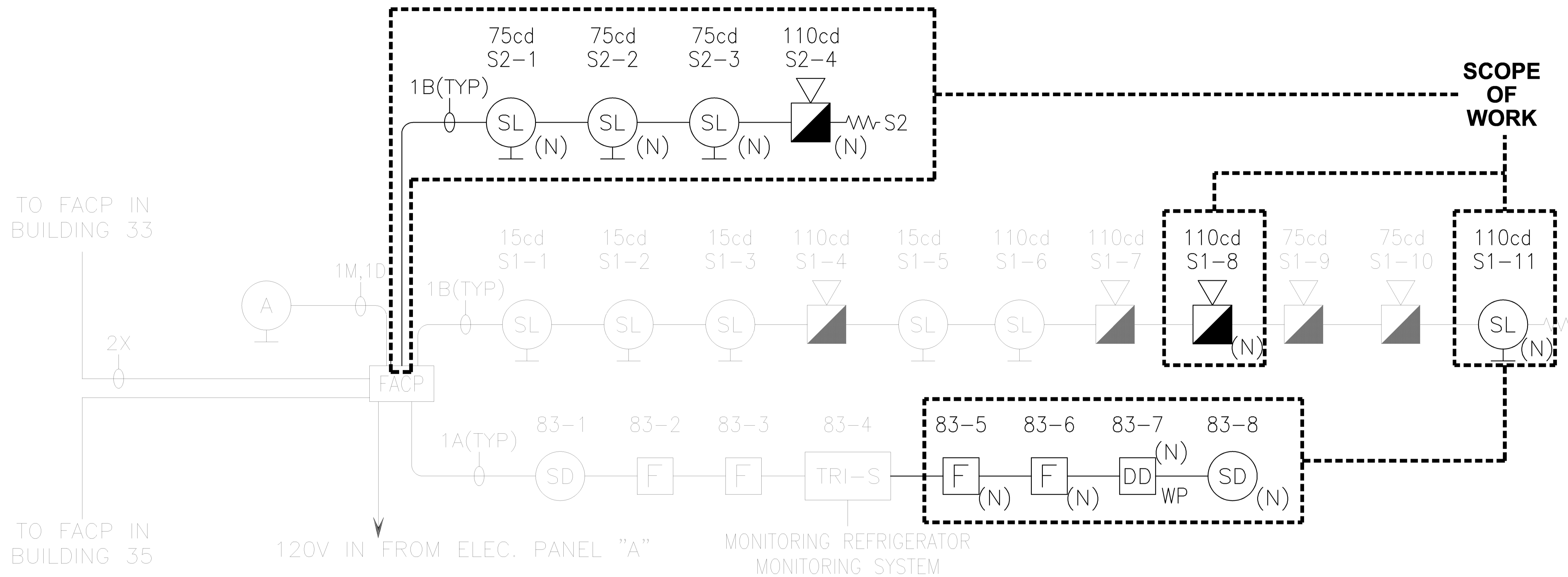
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N&T JOB NO.: 2901.4

SHEET NUMBER
FA-04

JOB NUMBER: 44QP-083436 NET NUMBER: 5284222

LEGEND:
(N) - NEW DEVICE

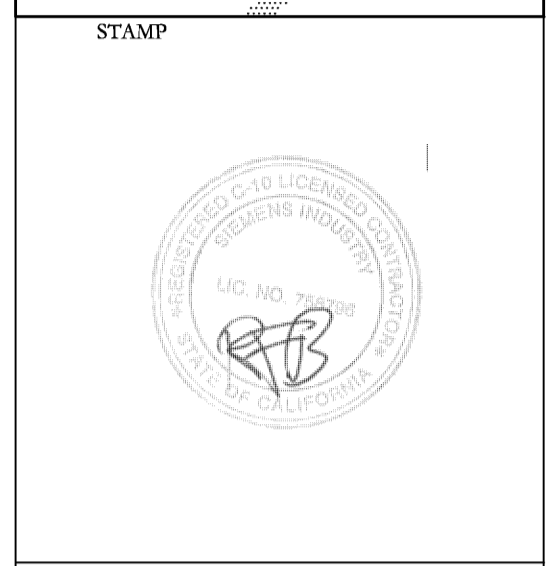


BUILDING 34 FIRE ALARM RISER DIAGRAM

HIGHLIGHTED ITEMS ARE CONSIDERED

NEW SCOPE OF WORK

ARCHITECT OF RECORD
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architects and planners
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Berkeley, CA 94710
510.649.8295
fax 510.649.3008



CONTRACTOR'S NAME & ADDRESS:
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Tel 415.970.3400 Fax 415.970.3434

PRODUCT MANUFACTURER:
SIEMENS Industry Inc.
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Tel (510) 783-8000 Fax (510) 293-2100
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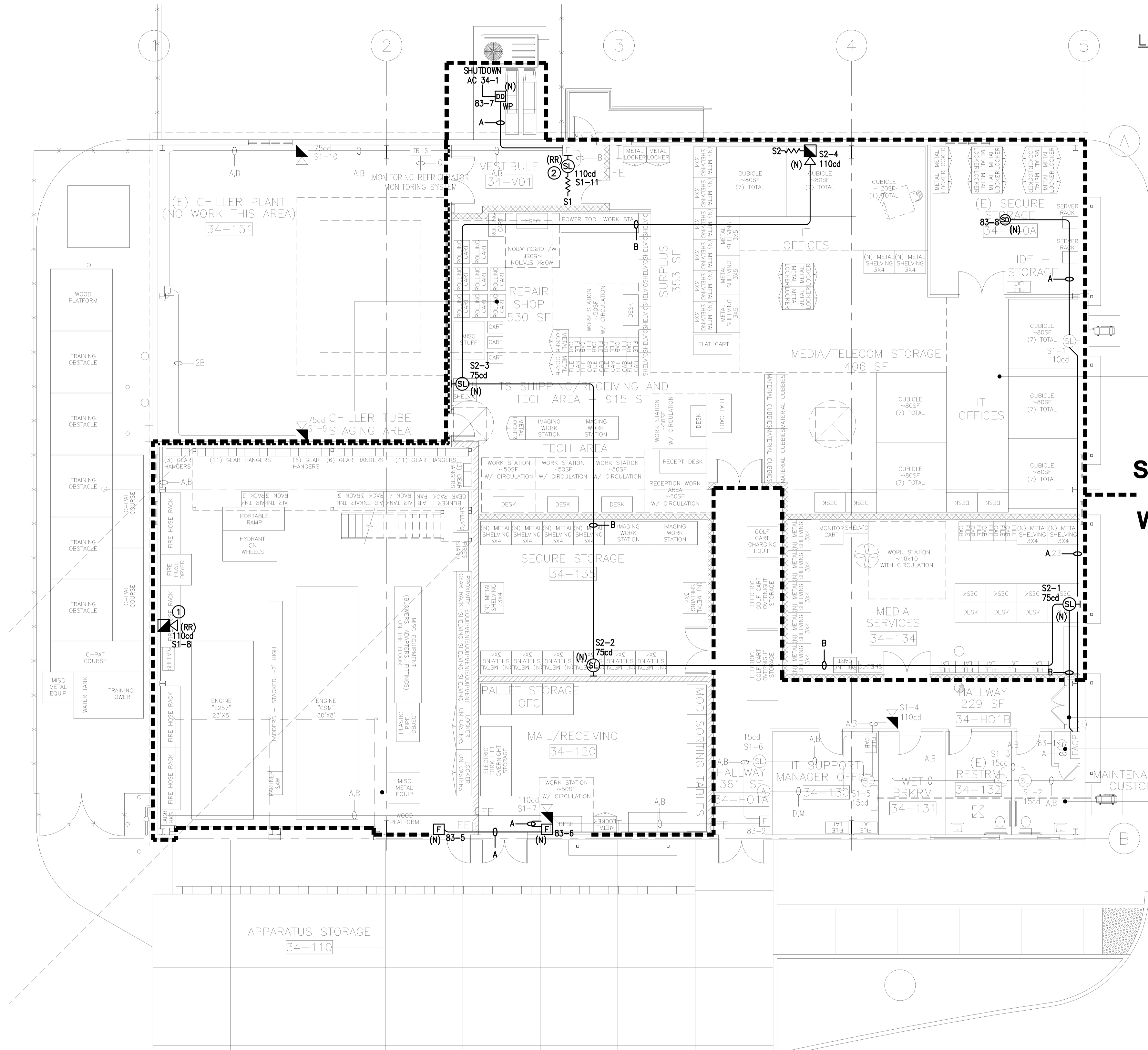
COLLEGE OF SAN MATEO
BUILDING 34
MODERNIZATION
SMCCCD
3401 CSM Drive
San Mateo, CA 94402
College of San Mateo
1700 W. Hillsdale Blvd.
San Mateo, CA 94402

SHEET TITLE
**BUILDING 34
FIRE ALARM
RISER DIAGRAM**

REVISIONS		
NO.	DATE	DESCRIPTION
	02/04/11	CONSTRUCTION SET

DATE FEBRUARY 04, 2011
DRAWN RB
CHECKED MM
SCALE NA
N&T JOB NO.: 2901.4

SHEET NUMBER
FA-05
JOB NUMBER: 44QP-083436 NET NUMBER: 5284222



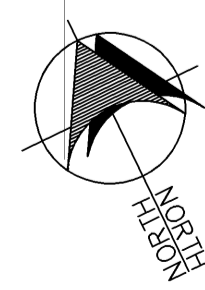
SHEET NOTE:

- ① REMOVE EXISTING STROBE AND REPLACE WITH NEW HORN STROBE.
- ② REMOVE EXISTING HORN/STROBE AND REPLACE WITH NEW STROBE.

LEGEND:

- (N) - NEW DEVICE
- (RR) - REMOVE EXISTING DEVICE AND REPLACE WITH NEW DEVICE

SCOPE OF WORK



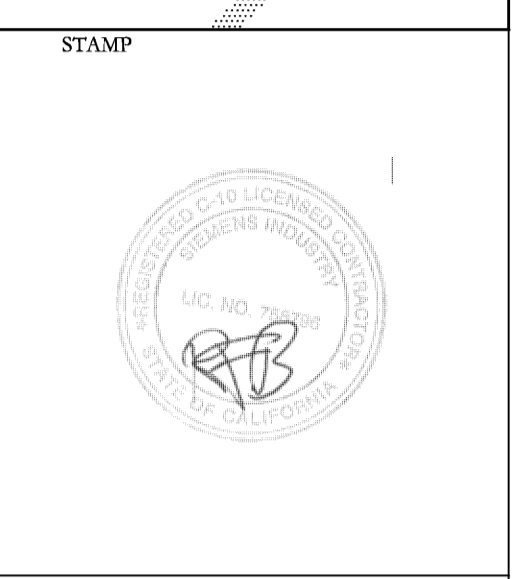
FIRE ALARM PLAN - BUILDING 34
SCALE: 1/8" = 1'-0"

HIGHLIGHTED ITEMS ARE CONSIDERED
NEW SCOPE OF WORK

ARCHITECT OF RECORD

noll & tam
architects and planners

729 Heinz Avenue
Berkeley, CA 94710
510.649.8295
fax 510.649.3008



CONTRACTOR'S NAME & ADDRESS:

CUPERTINO ELECTRIC INC.
1740 Cesar Chavez Street
San Francisco, CA 94124
Tel 415.970.3400 Fax 415.970.3434

PRODUCT MANUFACTURER:

SIEMENS Industry Inc.

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25821 Industrial Boulevard, Suite 300
Hayward, California 94545-2991
Tel (510) 783-8000 Fax (510) 293-2100
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COLLEGE OF SAN MATEO
BUILDING 34
MODERNIZATION

SMCCCD
3401 CSM Drive
San Mateo, CA 94402
College of San Mateo
1700 W. Hillside Blvd.
San Mateo, CA 94402

SHEET TITLE
FIRE ALARM PLAN BUILDING 34

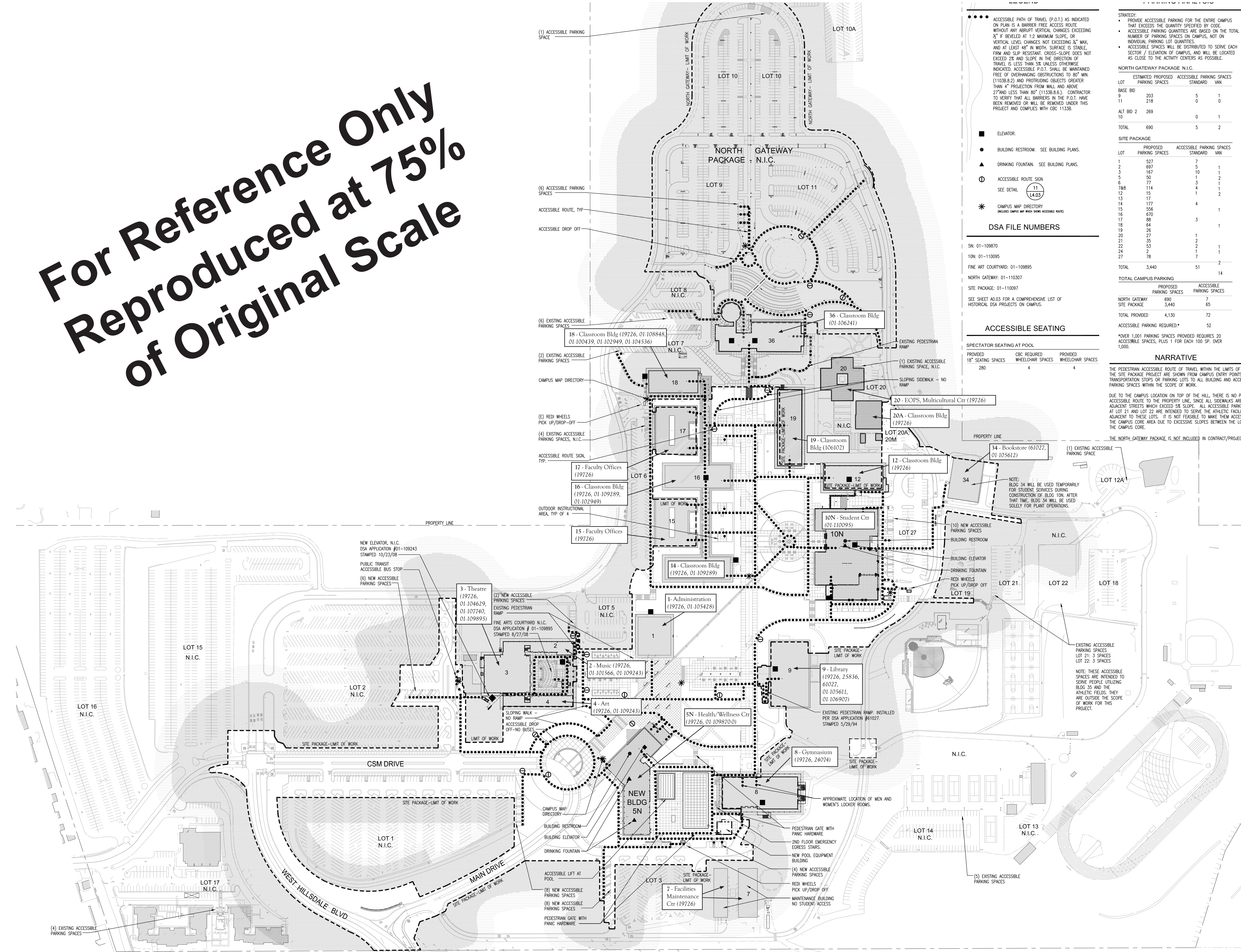
REVISIONS		
NO.	DATE	DESCRIPTION
	02/04/11	CONSTRUCTION SET

DATE	FEBRUARY 04, 2011
DRAWN	RB
CHECKED	MM
SCALE	AS NOTED
N&T JOB NO.:	2901.4

SHEET NUMBER
FA-06

JOB NUMBER: 44QP-083436 NET NUMBER: 5284222

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of Original Scale**



ACCESSIBLE PATH OF TRAVEL (P.O.T.) AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 2" MAX, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM AND SLIP RESISTANT. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. ACCESSIBLE P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN. (11038.8.2) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11038.8.6). CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE P.O.T. HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT AND COMPLIES WITH CBC 110338.

- ELEVATOR.
- BUILDING RESTROOM. SEE BUILDING PLANS.
- ▲ DRINKING FOUNTAIN. SEE BUILDING PLANS.
- ⊙ ACCESSIBLE ROUTE SIGN
SEE DETAIL (L11)
- * CAMPUS MAP DIRECTORY
(INCLUDES CAMPUS MAP WHICH SHOWS ACCESSIBLE ROUTE)

DSa FILE NUMBERS
 5N: 01-109870
 10N: 01-110095
 FINE ART COURTYARD: 01-109895
 NORTH GATEWAY: 01-110307
 SITE PACKAGE: 01-110097

SEE SHEET A0.03 FOR A COMPREHENSIVE LIST OF HISTORICAL DSa PROJECTS ON CAMPUS.

ACCESSIBLE SEATING

SPECTATOR SEATING AT POOL

PROVIDED 18" SEATING SPACES	CBC REQUIRED WHEELCHAIR SPACES	PROVIDED WHEELCHAIR SPACES
280	4	4

STRATEGY:

- PROVIDE ACCESSIBLE PARKING FOR THE ENTIRE CAMPUS THAT EXCEEDS THE QUANTITY SPECIFIED BY CODE.
- ACCESSIBLE PARKING QUANTITIES ARE BASED ON THE TOTAL NUMBER OF PARKING SPACES ON CAMPUS, NOT ON INDIVIDUAL PARKING LOT QUANTITIES.
- ACCESSIBLE SPACES WILL BE DISTRIBUTED TO SERVE EACH SECTOR / ELEVATION OF CAMPUS, AND WILL BE LOCATED AS CLOSE TO THE ACTIVITY CENTERS AS POSSIBLE.

NORTH GATEWAY PACKAGE N.I.C.

LOT	ESTIMATED PROPOSED PARKING SPACES	ACCESSIBLE STANDARD	PARKING SPACES VAN
BASE BID	203	5	1
9	218	0	0
10			
ALT BID 2	269	0	1
TOTAL	690	5	2

SITE PACKAGE

LOT	PROPOSED PARKING SPACES	ACCESSIBLE STANDARD	PARKING SPACES VAN
1	527	7	1
2	697	7	1
3	167	10	1
5	50	1	2
6	77	3	1
7/8	114	4	1
12	15	1	2
13	17		
14	177	4	
15	556		1
16	670		
17	89	3	
18	64		1
19	26		
20	27		
21	35	2	1
22	53	1	1
24	2		
27	78	7	1
TOTAL	3,440	51	2

TOTAL CAMPUS PARKING

PROPOSED PARKING SPACES	ACCESSIBLE PARKING SPACES
NORTH GATEWAY	690
SITE PACKAGE	3,440
TOTAL PROVIDED	4,130
ACCESSIBLE PARKING REQUIRED*	52

*OVER 1,001 PARKING SPACES PROVIDED REQUIRES 20 ACCESSIBLE SPACES, PLUS 1 FOR EACH 100 SP. OVER 1,000.

NARRATIVE

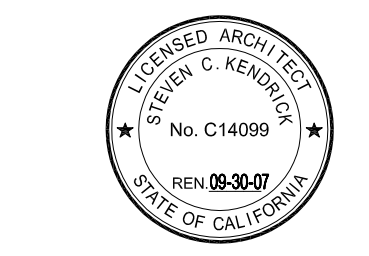
THE PEDESTRIAN ACCESSIBLE ROUTE OF TRAVEL WITHIN THE LIMITS OF WORK FOR THE SITE PACKAGE PROJECT ARE SHOWN FROM CAMPUS ENTRY POINTS SUCH AS TRANSPORTATION STOPS OR PARKING LOTS TO ALL BUILDING AND ACCESSIBLE PARKING SPACES WITHIN THE SCOPE OF WORK.

DUE TO THE CAMPUS LOCATION ON TOP OF THE HILL, THERE IS NO PEDESTRIAN ACCESSIBLE ROUTE TO THE PROPERTY LINE, SINCE ALL SIDEWALKS ARE ON ADJACENT STREETS WHICH EXCEED 5% SLOPE. ALL ACCESSIBLE PARKING SPACES AT LOT 21 AND LOT 22 ARE INTENDED TO SERVE THE ATHLETIC FACILITIES ADJACENT TO THESE LOTS. IT IS NOT FEASIBLE TO MAKE THEM ACCESSIBLE TO THE CAMPUS CORE AREA DUE TO EXCESSIVE SLOPES BETWEEN THE LOTS AND THE CAMPUS CORE.

THE NORTH GATEWAY PACKAGE IS NOT INCLUDED IN CONTRACT/PROJECT.



McCarthy Building Companies, Inc.
 343 Sansome Street, 14th Floor
 San Francisco, California 94104
 P 415 | 364-1339
 F 415 | 397-9999



IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICE

APPL. # 01-110097

AC: _____ FLS: _____ SS: _____
 DATE: _____

FILE NUMBER: _____

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College of San Mateo
 Site Package
 San Mateo, CA

Developed for
 San Mateo County Community College District

Date	Revision	Description
01/22/08 <td> <td></td> </td>	<td></td>	

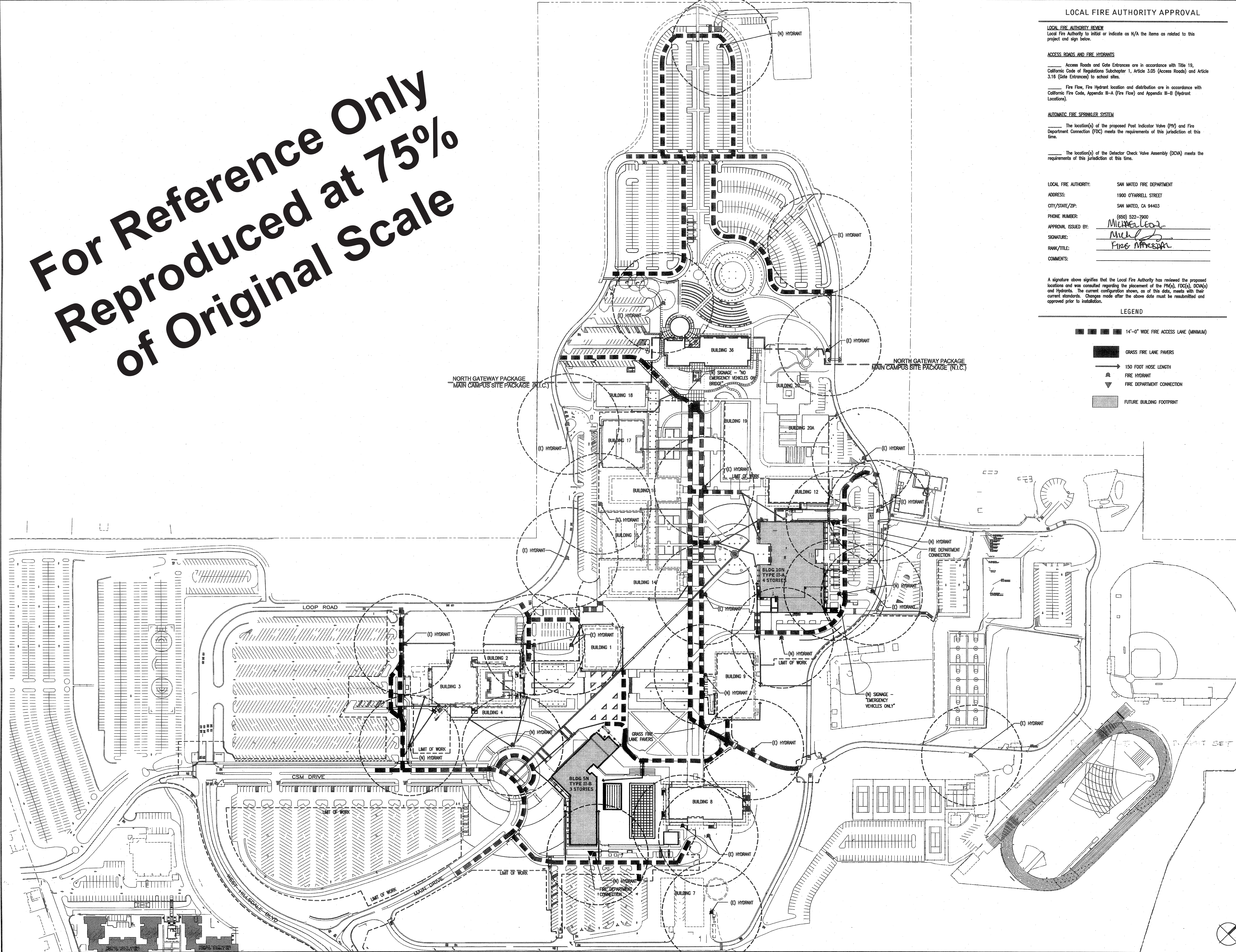
Date	Revision	Description
01/22/08 <td> <td></td> </td>	<td></td>	

Job No.	37082.30
Date	12 NOVEMBER 2008
Drawn by	AG, DT
Checked by	LC
Scale	AS SHOWN

ACCESSIBLE PATH OF TRAVEL PLAN

R-1

**For Reference Only
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LOCAL FIRE AUTHORITY APPROVAL

LOCAL FIRE AUTHORITY REVIEW
Local Fire Authority to initial or indicate as N/A the items as related to this project and sign below.

ACCESS ROADS AND FIRE HYDRANTS
Access Roads and Gate Entrances are in accordance with Title 19, California Code of Regulations Subchapter 1, Article 3.05 (Access Roads) and Article 3.16 (Gate Entrances) to school sites.
Fire Flow, Fire Hydrant location and distribution are in accordance with California Fire Code, Appendix II-A (Fire Flow) and Appendix II-B (Hydrant Locations).

AUTOMATIC FIRE SPRINKLER SYSTEM
The location(s) of the proposed Post Indicator Valve (PIV) and Fire Department Connection (FDC) meets the requirements of this jurisdiction at this time.
The location(s) of the Detector Check Valve Assembly (DCVA) meets the requirements of this jurisdiction at this time.

LOCAL FIRE AUTHORITY: SAN MATEO FIRE DEPARTMENT
ADDRESS: 1900 O'FARRELL STREET
CITY/STATE/ZIP: SAN MATEO, CA 94403
PHONE NUMBER: (650) 522-7900
APPROVAL ISSUED BY: *Michael Lee*
SIGNATURE: *Michael Lee*
RANK/TITLE: Fire Inspector
COMMENTS:

A signature above signifies that the Local Fire Authority has reviewed the proposed locations and was consulted regarding the placement of the PIV(s), FDC(s), DCVA(s) and Hydrants. The current configuration shown, as of this date, meets with their current standards. Changes made after the above date must be resubmitted and approved prior to installation.

LEGEND

- 14'-0" WIDE FIRE ACCESS LANE (MINIMUM)
- GRASS FIRE LANE PAVERS
- 150 FOOT HOSE LENGTH
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- FUTURE BUILDING FOOTPRINT

noll tam
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LPA

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Graphics

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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01
AC _____ FS _____ SS _____
DATE _____

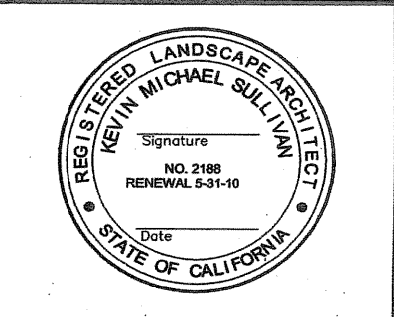
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REVIEWED BY: _____ DATE: _____

CSM NORTH GATEWAY

West Hillsdale Blvd
San Mateo, CA
94402



PERMIT SET

SHEET TITLE
OVERALL SITE FIRE ACCESS

REVISIONS		
NO.	DATE	DESCRIPTION

DATE: 19 DEC 08
DRAWN: RF
CHECKED: KS
SCALE:
JOB NO.: 28066.10
SHEET NUMBER:

R-2