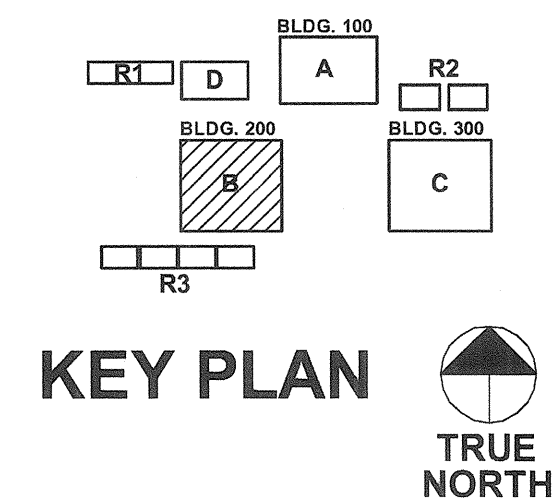


SOFFIT EDGE ABOVE

1 REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"
 BUILDING B
 PLAN NORTH



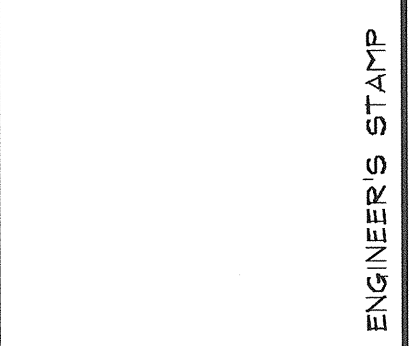
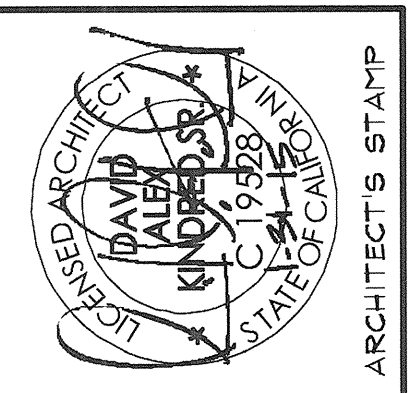
- KEYNOTES:** NOTE: NOT ALL KEYNOTES MAY BE USED ON THIS SHEET.
- REFLECTED CEILING PLAN.
 - SEISMIC COMPRESSION STRUT LOCATIONS, RE: 1/A7.60 (NEW CEILING)
 - EXIT SIGN
 - EXISTING CEMENT PLASTER SOFFIT.
 - PATCH EXISTING CEMENT PLASTER CEILING. MATCH ADJACENT MATERIALS, PAINT
 - EXISTING LIGHTING FIXTURES TO REMAIN
 - NEW GYPSUM BOARD CEILING, RE: 8/A7.60
 - NEW EXHAUST FAN
 - NEW ACOUSTICAL LAY-IN CEILING, RE: 1/A7.60
 - NEW LIGHTING FIXTURES / CONDUIT / WIRE / (REGULAR AND EMERGENCY BACK-UP)
 - NEW PROJECTION SCREEN. PROVIDE NEW HANGER AND SPLAY WIRES PER A-7.60 (SIMILAR TO CEILING WIRING) FLUSH MOUNT TO CEILING, RE: SPECS. (DISTRICT PROVIDED CONTRACTOR INSTALLED)
 - NEW SUPPLY AND RETURN AIR GRILLES
 - REINSTALL EXISTING ROUTER IN CEILING TILE
 - NEW OCCUPANCY SENSOR
 - NEW PROJECTOR AND CEILING MOUNTING PER MANUFACTURER'S INSTRUCTIONS (BY OTHERS)

- REFERENCING FLOOR PLAN:**
- REFER TO DRAWING A0.2 FOR GENERAL NOTES AND THE ENGINEERING DRAWINGS FOR ADDITIONAL INSTRUCTIONS AND DIRECTIVES.
 - REFER TO A7.60 FOR CEILING DETAILS
 - REFER TO DRAWING A0.2 FOR SYMBOLS AND ABBREVIATIONS
 - REFER TO A6 SERIES FOR GENERAL INTERIOR DETAILS
 - REFER TO A9 SERIES FOR FINISH SCHEDULE
 - REFER TO A5 SERIES FOR DOOR SCHEDULE
 - REFER TO A10.1 FOR SIGNAGE

- GENERAL NOTES:**
- EACH CLASSROOM LAYOUT OF CEILING SEISMIC COMPRESSION STRUT LOCATIONS NO MORE THAN 6'-0" FROM WALL AND 12'-0" BETWEEN. (NONE THRU SOFFITS AND ALWAYS ON CORNERS OF GRID.)
 - RELOCATE FIRE ALARM DEVICES IN NEW ACOUSTICAL CEILING TILE. MAY HAVE TO PULL TO NEAREST J-BOX AND INSTALL NEW CONDUIT TO NEW LOCATIONS (TYPICAL ALL CLASSROOMS).
 - INSTALL NEW OCCUPANCY SENSORS. REFER TO ELECTRICAL PLANS
 - NEW METAL SPIRAL DUCTWORK THROUGHOUT WITH PROPER BEARING / SUPPORTS AND SUPPLY AND RETURN GRILLES, FD-SD'S. CONTRACTOR RESPONSIBLE TO PROVIDE POWER TO ALL FD-SD'S.
 - THE PROJECTION SCREEN WILL BE A CEILING RECESSED MOTORIZED SCREEN. THE DISTRICT WILL FURNISH AND CONTRACTOR WILL INSTALL
 - THE I.T. DEPARTMENT WILL PROVIDE SPECIFICATIONS FOR CEILING MOUNTED PROJECTOR.
 - THE CONTROLS FOR CEILING MOUNTED PROJECTOR WILL BE WALL MOUNTED AT WEST END OF THE COMPUTER STATIONS ON THE NORTH WALL. DISTRICT I.T. DEPARTMENT WILL PROVIDE SPECIFICATIONS. CONTRACTOR WILL FURNISH AND INSTALL THE CONTROLS AND ALL WIRING.
 - CONTRACTOR WILL INSTALL CEILING MOUNTED SPEAKERS FOR THE PROJECTORS.
 - THE FOUR LIGHT FIXTURES IN FRONT OF THE PROJECTOR SCREEN SHALL BE ON A SEPARATE LIGHT SWITCH.
 - CONTRACTOR SHALL RE-INSTALL ALL R30 ROOF INSULATION LOCATED BETWEEN ROOF CEILING JOISTS THAT HAS DISLODGED OR FALLEN DOWN FROM THE REQUIRED LOCATIONS WITHIN THE CEILING JOIST. CONTRACTOR SHALL FIGURE THE RE-INSTALLATION OF 10 BATT PIECES OF R60 INSULATION PER ROOM
 - RELOCATE EXISTING FIRE ALARM DEVICES IN NEW ACOUSTICAL CEILING TO FIT IN CENTER OF CEILING TILE. CONTRACTOR IS RESPONSIBLE TO COORDINATE INSTALLATION AS TO AVOID OVERLAPPING CONFLICTS.
 - TEMPORARILY REMOVE AND RE-INSTALL WIRELESS ANTENNA / ROUTER UPON INSTALLATION OF NEW SUSPENDED CEILING.
 - MODIFY LIGHT SWITCHES FOR "A", "B" SWITCHING FOR "SMART OR PROJECTOR" SPECIFIC LIGHTING. A / B LIGHT SWITCHING SHOULD REFLECT THE POSITION OF THE SMARTBOARD.

LEGEND

	ATTACHED		RETURN AIR
	UNATTACHED		SUPPLY AIR
	SEISMIC COMPRESSION STRUT LOCATIONS		SMOKE DETECTOR
	ROOM NUMBER		SMOKE / HEAT
	EMERGENCY LIGHT FIXTURE		EXHAUST FAN
	EXISTING TRACK LIGHTS TO REMAIN		OCCUPANCY SENSOR
	NEW FLUSH MOUNT LIGHTING AT ACOUSTICAL CEILINGS		HEAT DETECTOR
	NEW 1x4 SURFACE MOUNTED LIGHTS		MOTION DETECTOR
	EXIT LIGHT (CEILING MOUNT)		HORN / STROBE
	EXIT LIGHT (WALL MOUNT)		ACCESS PANEL
	EXISTING LIGHT TUBE TO REMAIN (REPOSITION IN NEW CEILING GRID)		NEW EMERGENCY PATH OF TRAVEL LIGHT FIXTURE
	NEW SPEAKER		ROUTER



OAK PARK UNIFIED SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
 BUILDING B/200 (BID AND CA)

Oak Park
 UNIFIED SCHOOL DISTRICT

KPI Architects Inc.
 650 East Parkridge Avenue, Suite 105
 Corona, California 92709-1092
 Phone: (800) 366-6381 Fax: (877) 483-2059

barnhart, inc.
 A HEERY INTERNATIONAL COMPANY

PROJECT NO.: 234808 DATE: 01-07-13

REFLECTED CEILING PLAN - BUILDING B

13-02R

AD1-A7.2

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT

APPL 03-113415

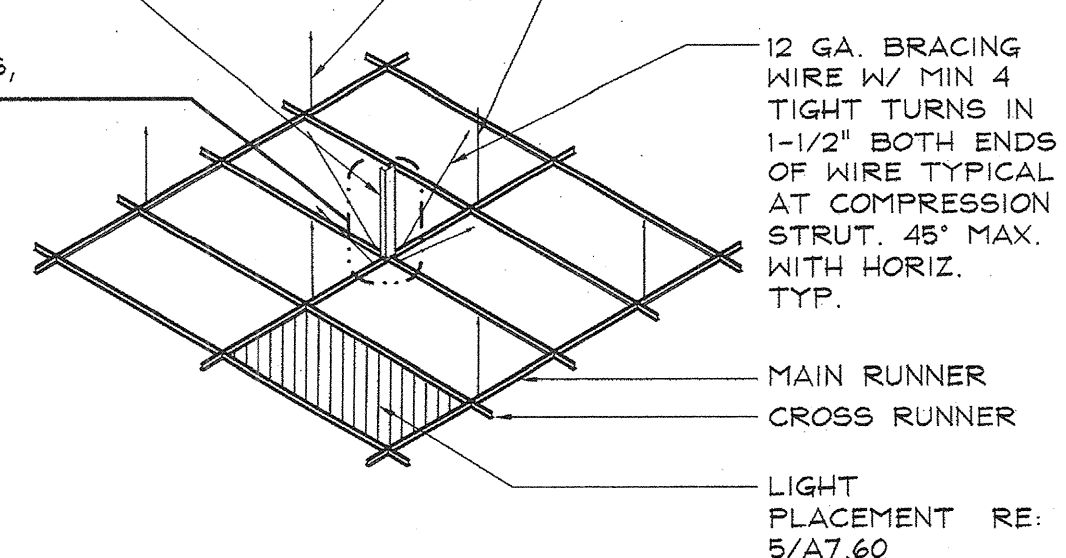
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DATE: _____

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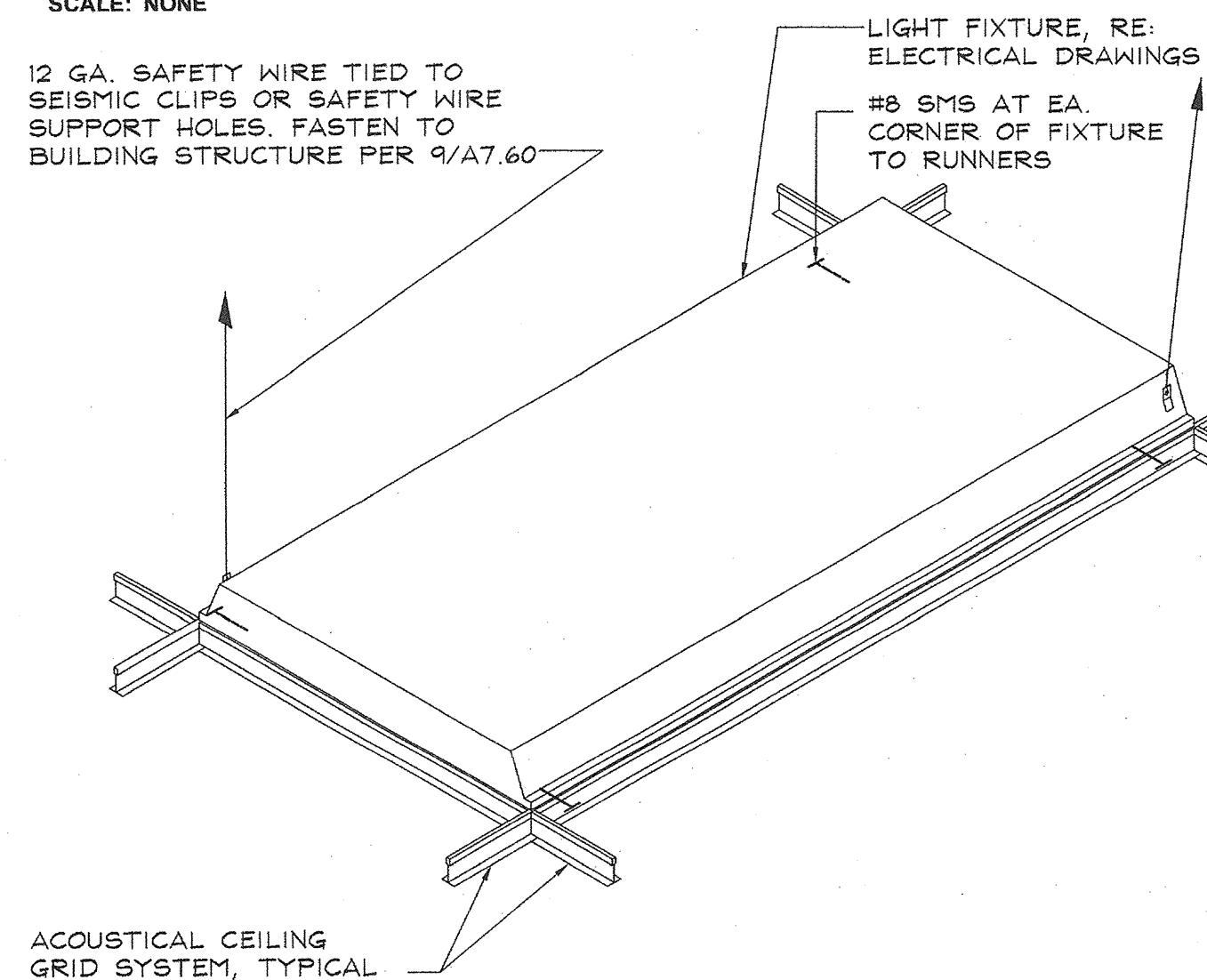
COMPRESSION STRUT, 4"x54 MIL METAL STUD (R_y=0.394" MIN, 33 KSI, PROVIDE STEEL SECTION WITH A L/R RATIO LESS THAN 200 MAXIMUM LENGTH OF STRUT: 79"-CUT LENGTH AS REQUIRED). ATTACH TO MAIN RUNNERS WITH (2) #12 SELF-DRILLING SELF-TAPPING SCREWS. COMPRESSION STRUT SHALL NOT REPLACE HANGER WIRE. RE: STRUCTURAL

SEISMIC BRACING ASSEMBLY AT 12'-0" O.C. MAX. BOTH WAYS, RE: 6/A7.60



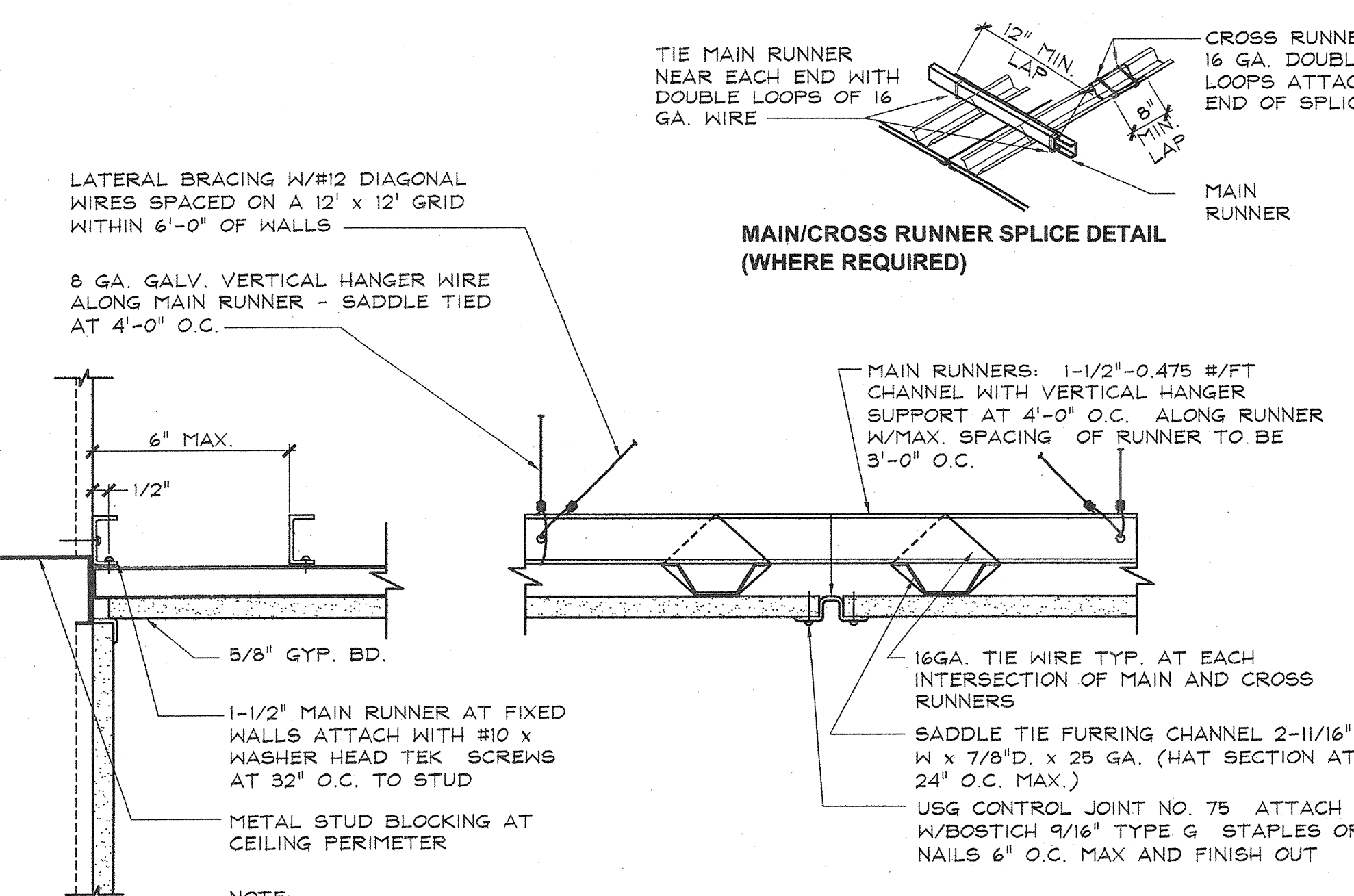
1 ACOUSTICAL CEILING GRID SUSPENSION SYSTEM (HEAVY DUTY CEILING GRID)

SCALE: NONE



5 LAY-IN FIXTURE SUPPORT DETAIL

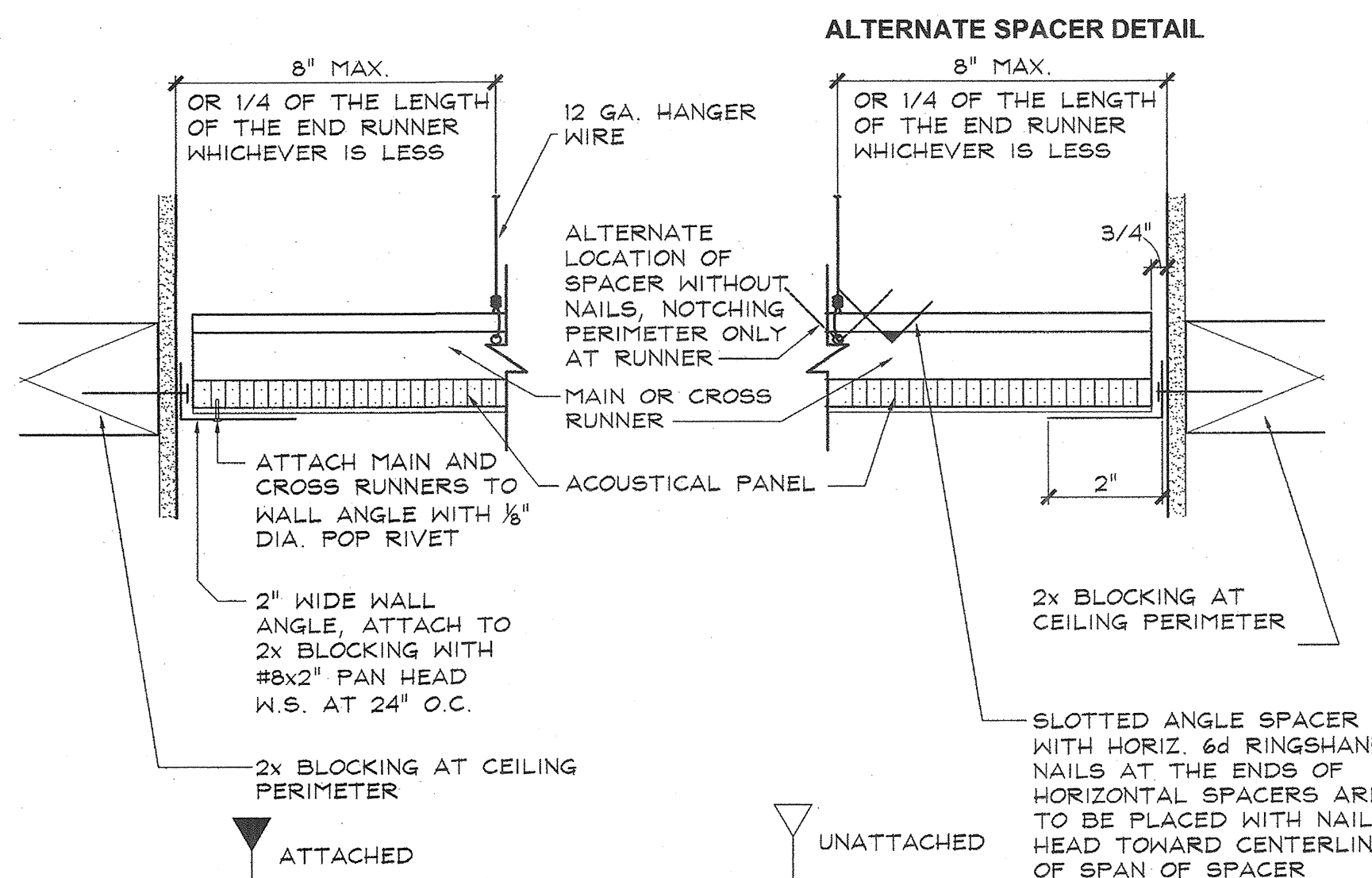
SCALE: NONE



8 SUSPENDED GYPSUM BOARD CEILING

SCALE: NONE REFER TO IR 25-3, REVISED 07-21-05

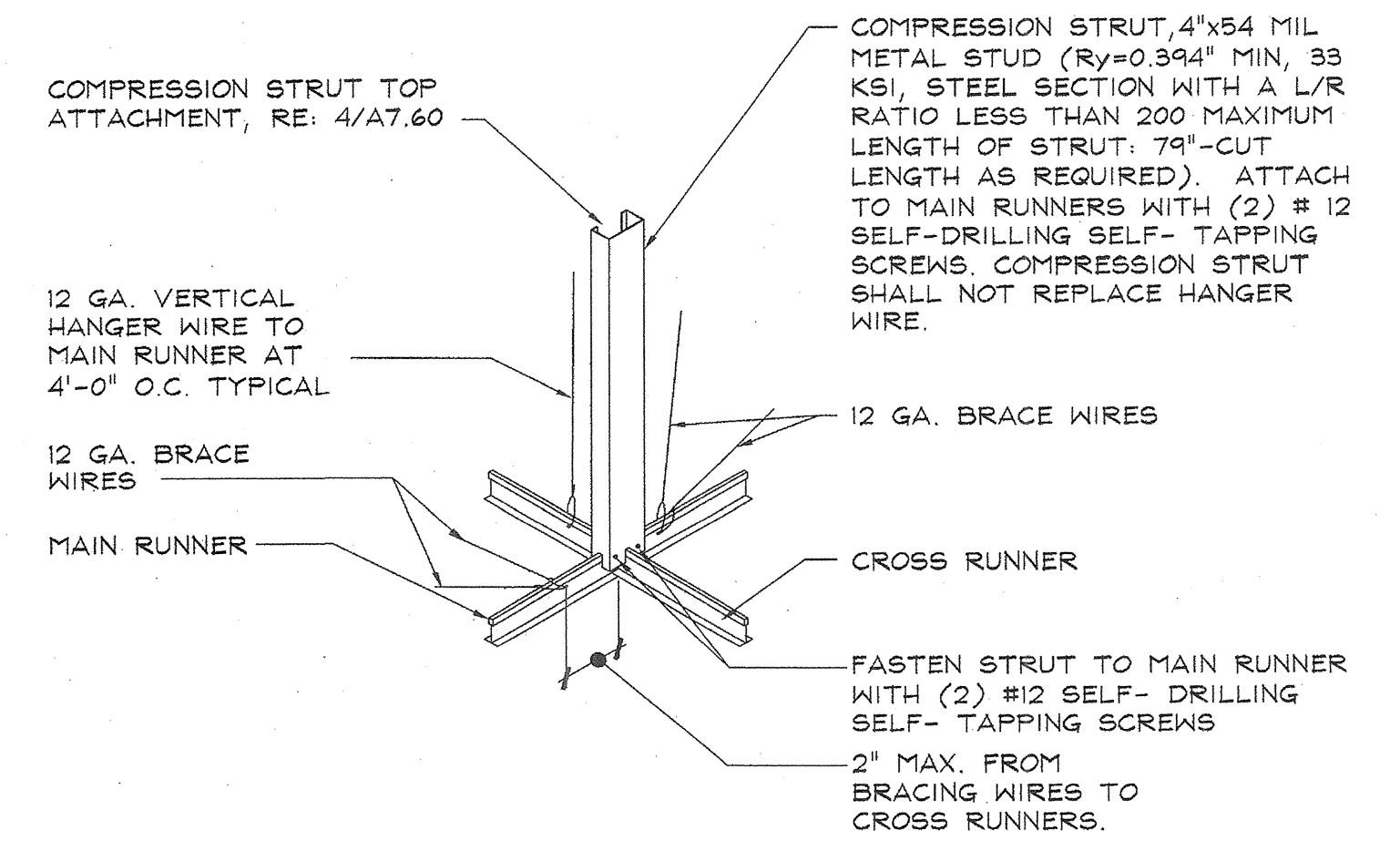
SPACERS MAY BE SLOTTED ANGLES OR CHANNELS W/ "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF SPACER



2 ACOUSTICAL CEILING GRID ATTACHMENT

NOTE

1. WALL FIRESTOP BLOCKING REQUIREMENTS PROVIDE CONTINUOUS 2x WOOD BLOCKING AT ENTIRE CEILING PERIMETER.
2. BLOCKING NOT REQUIRED AT WALLS WITH FULL THICKNESS WALL INSULATION. WALL INSULATION IS REQUIRED TO FILL ENTIRE WALL CAVITY

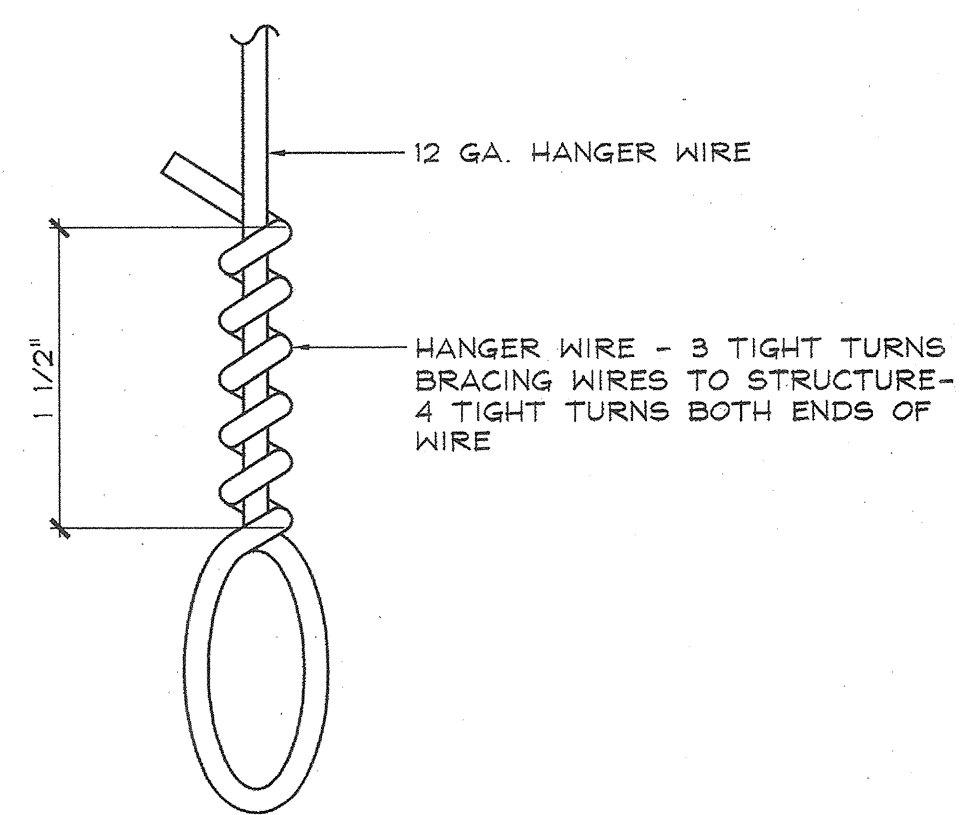


6 SEISMIC BRACING ATTACHMENT DETAIL

SCALE: NONE

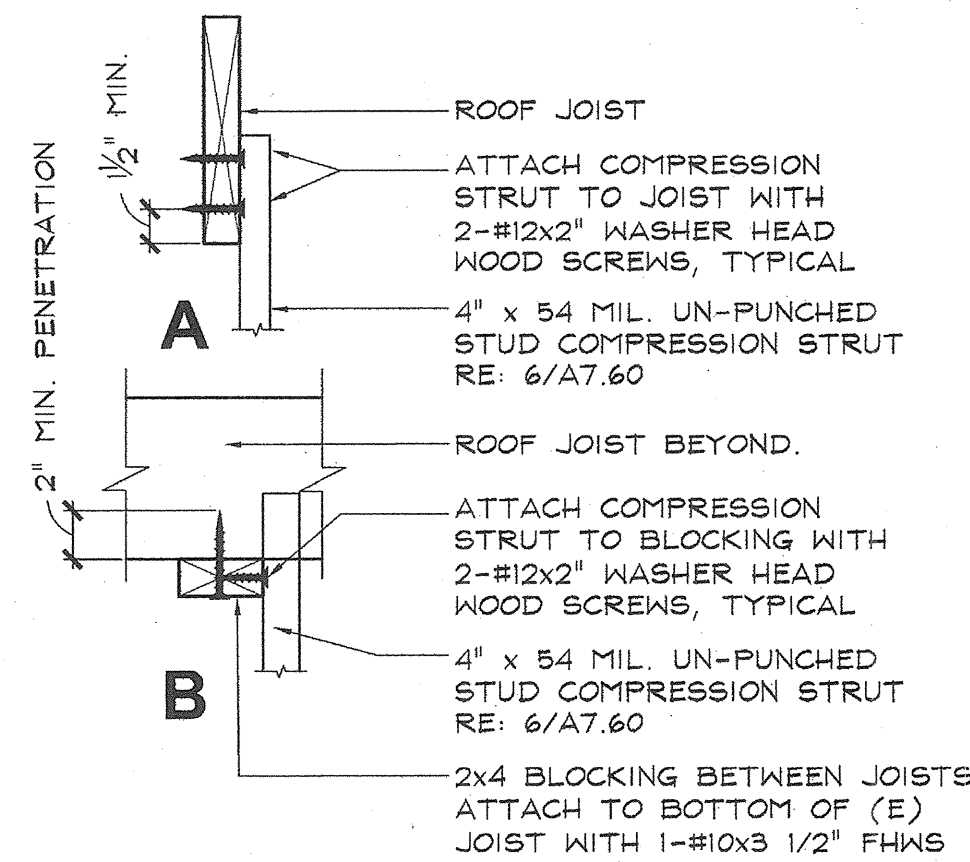
REFER TO 1/A7.60 FOR CEILING GRID LAYOUT AND BRACING WIRES

3 TYPICAL HANGER, SAFETY, & BRACING WIRE DETAIL



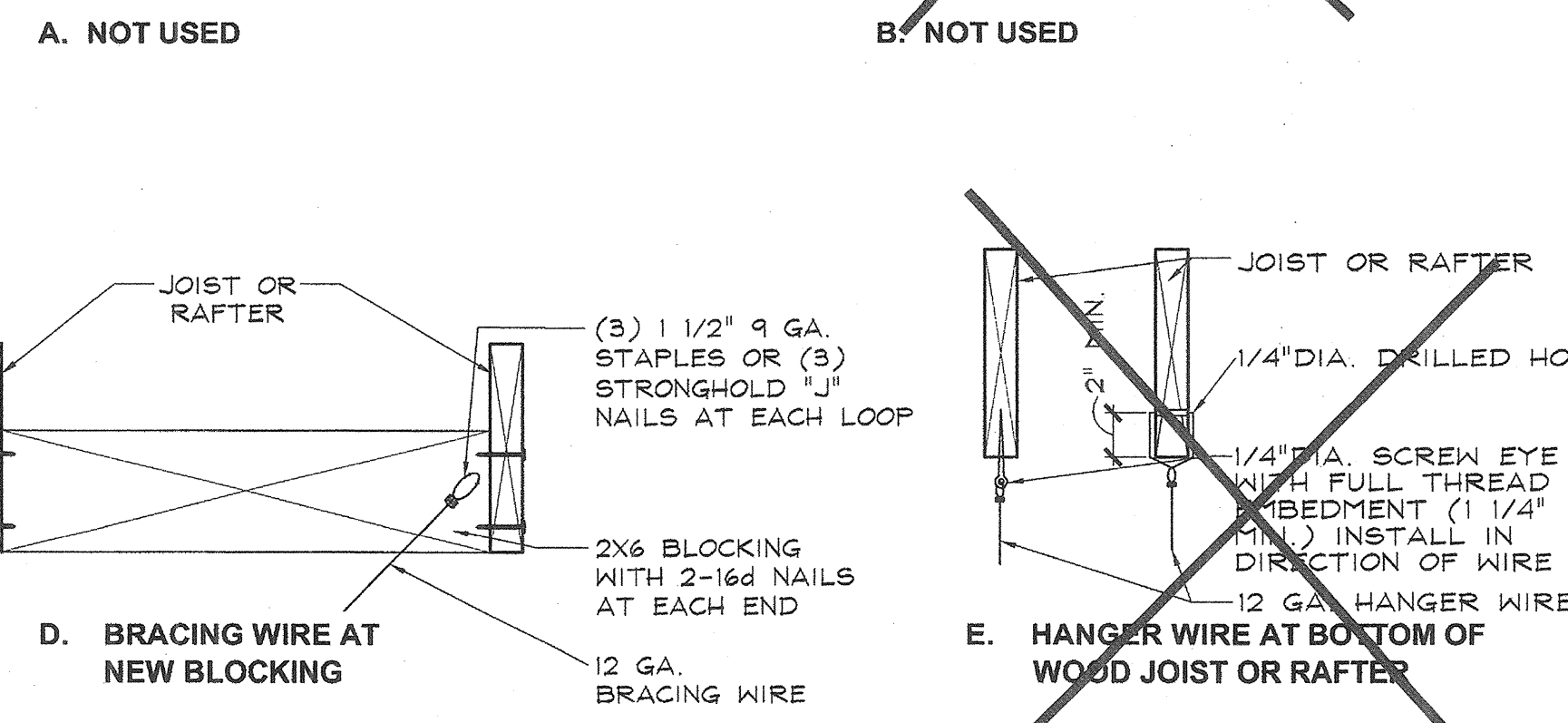
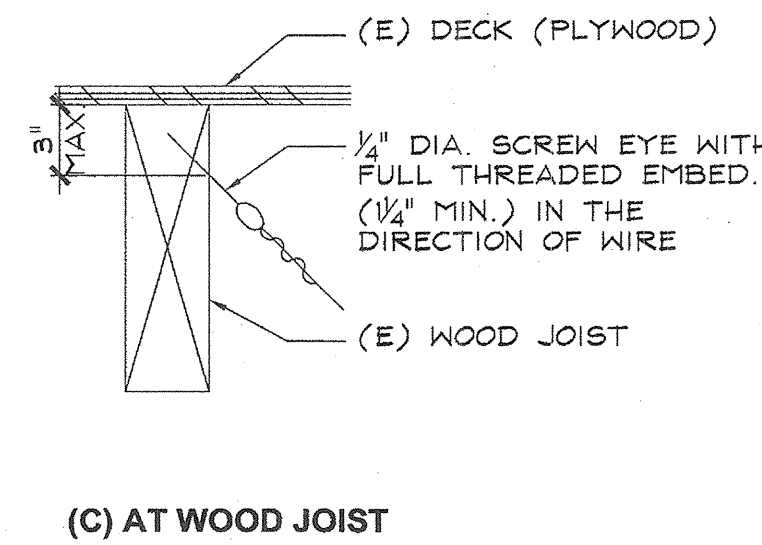
4 COMPRESSION STRUT TOP ATTACHMENT

SCALE: 1-1/2" = 1'-0" TYPICAL CONDITION (FLOOR SLAB AND ROOF DECK)



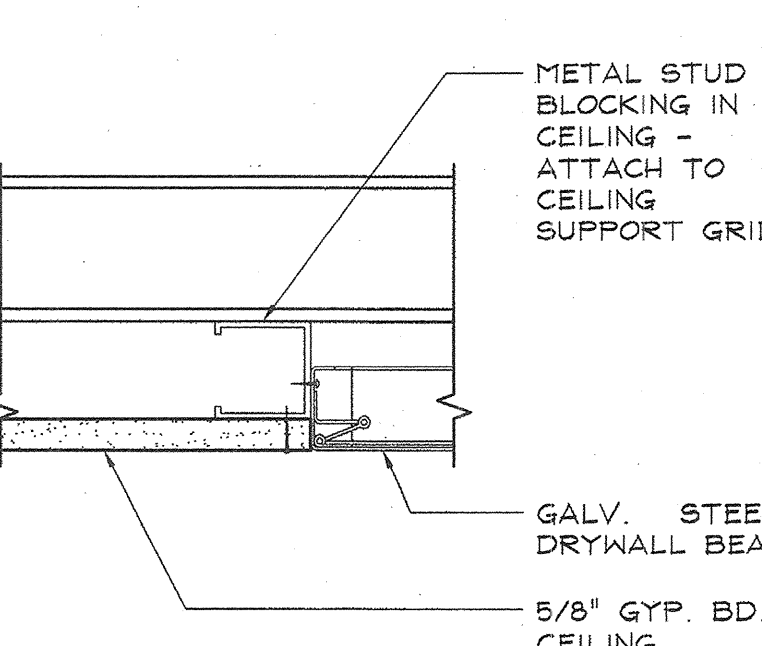
7 ACOUSTIC CEILING GRID HANGER WIRE

SCALE: NONE



9 SUSPENSION WIRE CONNECTION TO OVERHEAD STRUCTURE

SCALE: NONE



10 ATTIC ACCESS PANEL DETAIL

SCALE: 1 1/2" = 1'-0"

METAL SUSPENSION SYSTEMS

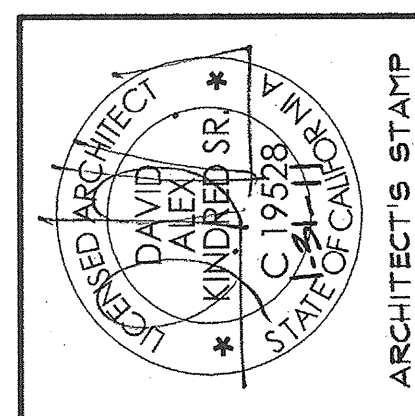
FOR LAY-IN-PANEL CEILINGS (HEAVY DUTY GRID SYSTEMS) COMPLY WITH INTERPRETATION OF REGULATION DOCUMENT IR 25-5 ISSUED 6-22-09 AND CBC 2501A.5.

1. 12 GAUGE (MINIMUM) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4" x 4" GRID SPACING ALONG MAIN RUNNERS. SPLICES WILL NOT BE PERMITTED IN ANY HANGER OR BRACING WIRES UNLESS SPECIFICALLY APPROVED BY DSA.
2. PROVIDE 12 GAUGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN 8" FROM THE SUPPORT OR WITHIN 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA.
3. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER-SLOPING WIRES.
4. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4" FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 3/4" CLEAR OF WALL.
5. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNER END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GAUGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
6. PROVIDE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) 12 GAUGE SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
 - A. PLACE BRACING ASSEMBLIES AT A SPACING NOT MORE THAN 12'x12' ON CENTER.
 - B. PROVIDE BRACING ASSEMBLIES AT LOCATIONS NOT MORE THAN 1/2 THE SPACINGS GIVEN IN (A) ABOVE, FROM EACH PERIMETER WALL AND AT THE EDGE OF ADJACENT CEILING OFFSETS.
 - C. SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQUARE FEET OR LESS, AND FIRE RATED SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 96 SQUARE FEET OR LESS, SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE, DO NOT REQUIRE BRACING ASSEMBLIES WHEN ATTACHED TO TWO ADJACENT WALLS.
7. FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN BRACING WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1-1/2" HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
8. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC. IT IS ACCEPTABLE TO ATTACH LIGHT WEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO DSA/SS.
9. WHEN DRILLED-IN OR SHOT-IN CONCRETE ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 400 LBS. IN TENSION. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY SHOT-IN OR DRILLED-IN ANCHOR FAILS, SEE CBC, SECTION 1923A.3.5.
10. ATTACH ALL LIGHT FIXTURES AND CEILING MOUNTED AIR TERMINALS OR SERVICES TO THE CEILING GRID RUNNERS TO RESIST THE HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES. SCREWS OR APPROVED FASTENERS ARE REQUIRED.
11. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES, WEIGHING LESS THAN 50 POUNDS, MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF TWO 12 GAUGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4' x 4' LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER. ALL FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING 50 POUNDS OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT 12 GAUGE WIRES ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED. THE FOUR TAUT 12 GAUGE WIRES INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE MUST BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE UNIT.
12. SUPPORT SURFACE-MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GAUGE WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 FEET OR LONGER.
13. CLASSIFICATION OF CEILING GRID
 - A. CEILING GRID SYSTEM RATING: HEAVY DUTY AS DEFINED BY ASTM C635
 - B. COMPLY WITH DSA IR 4.5
 - C. ACCEPTABLE MANUFACTURERS AND PRODUCTS:
 - CHICAGO METALLIC 1200 SERIES HEAVY DUTY MAIN RUNNER: NO. 200 CROSS RUNNER: NO. 1214 RUNNER SPLICE: INTEGRAL WITH NO. 200 MAIN RUNNER
 - ARMSTRONG WORLD INDUSTRIES, INC. PRELUDE XL HEAVY DUTY MAIN RUNNER: NO. 7301 CROSS RUNNER: NO. XL7341 RUNNER SPLICE: INTEGRAL WITH NO. 7301 MAIN RUNNER

NOTE: CONTRACTOR TO NOTIFY ARCHITECT AND/OR WHEN ENCOUNTERING EXISTING CONSTRUCTION NOT SIMILAR TO DETAILS INDICATED ON THIS DRAWING

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 03-113415
AC. *FLS* DATE: *10/20/10*
DATE: *10/20/10*
DSA STAMP

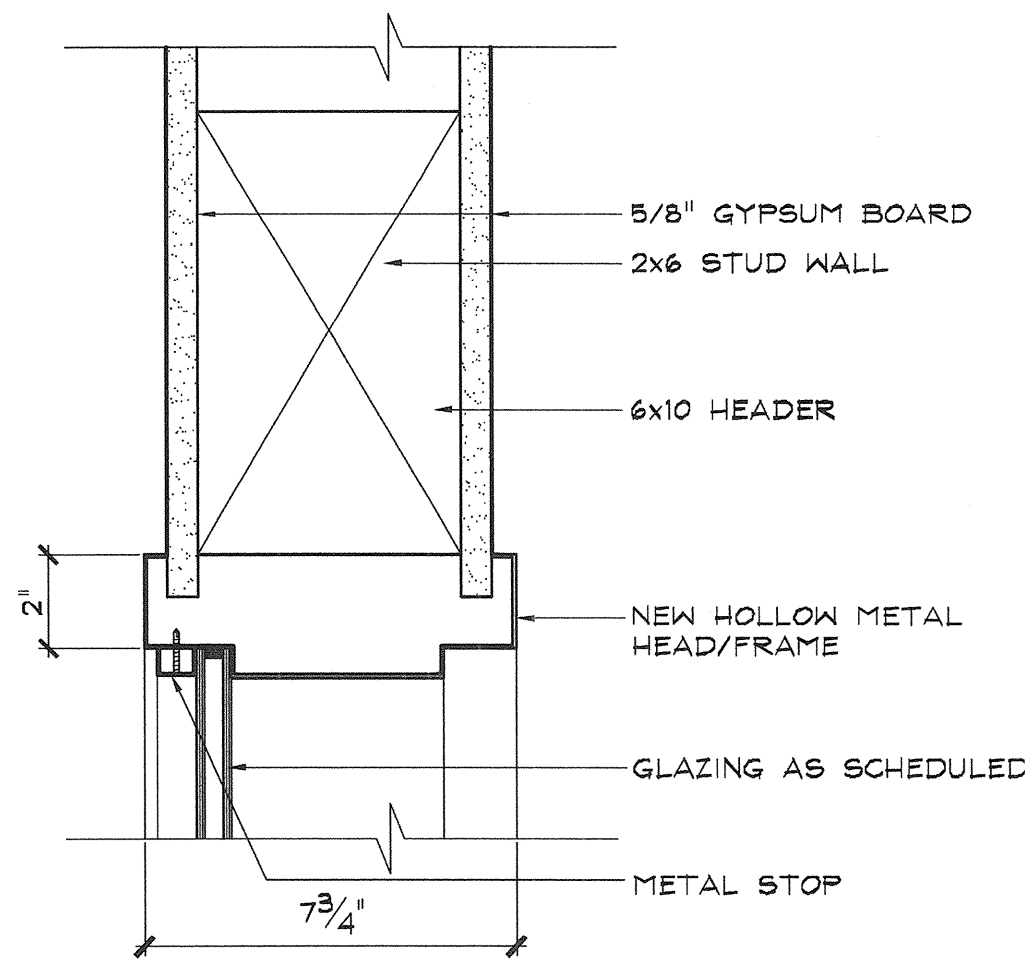
PROJECT NO.: 234800 DATE: 09-02-09
TYPICAL CEILING DETAILS - WOOD STUD CONSTRUCTION
13-02R
A7.60



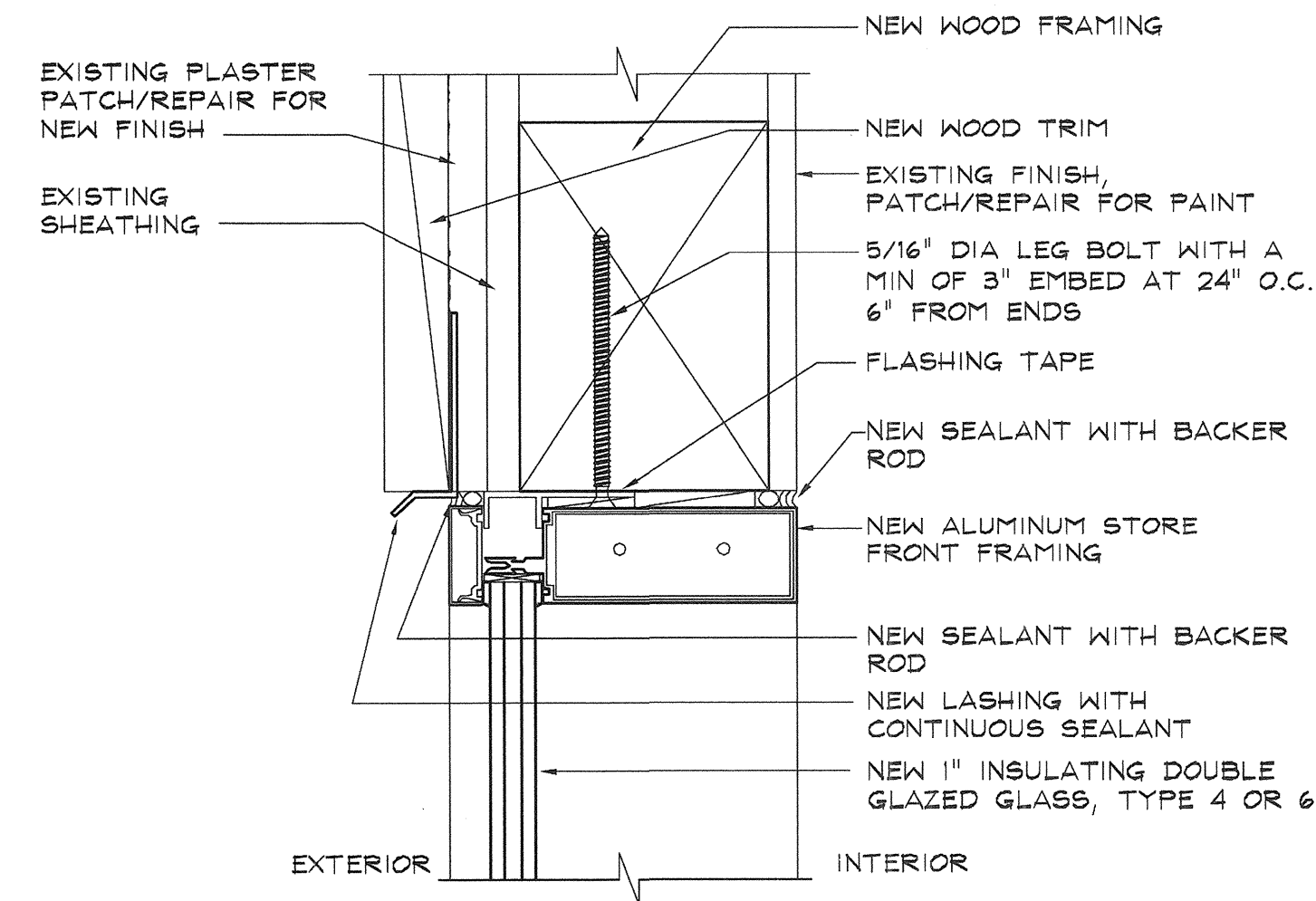
ENGINEER'S STAMP

OAK PARK UNIFIED SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
MODERNIZATION
Oak Park UNIFIED SCHOOL DISTRICT

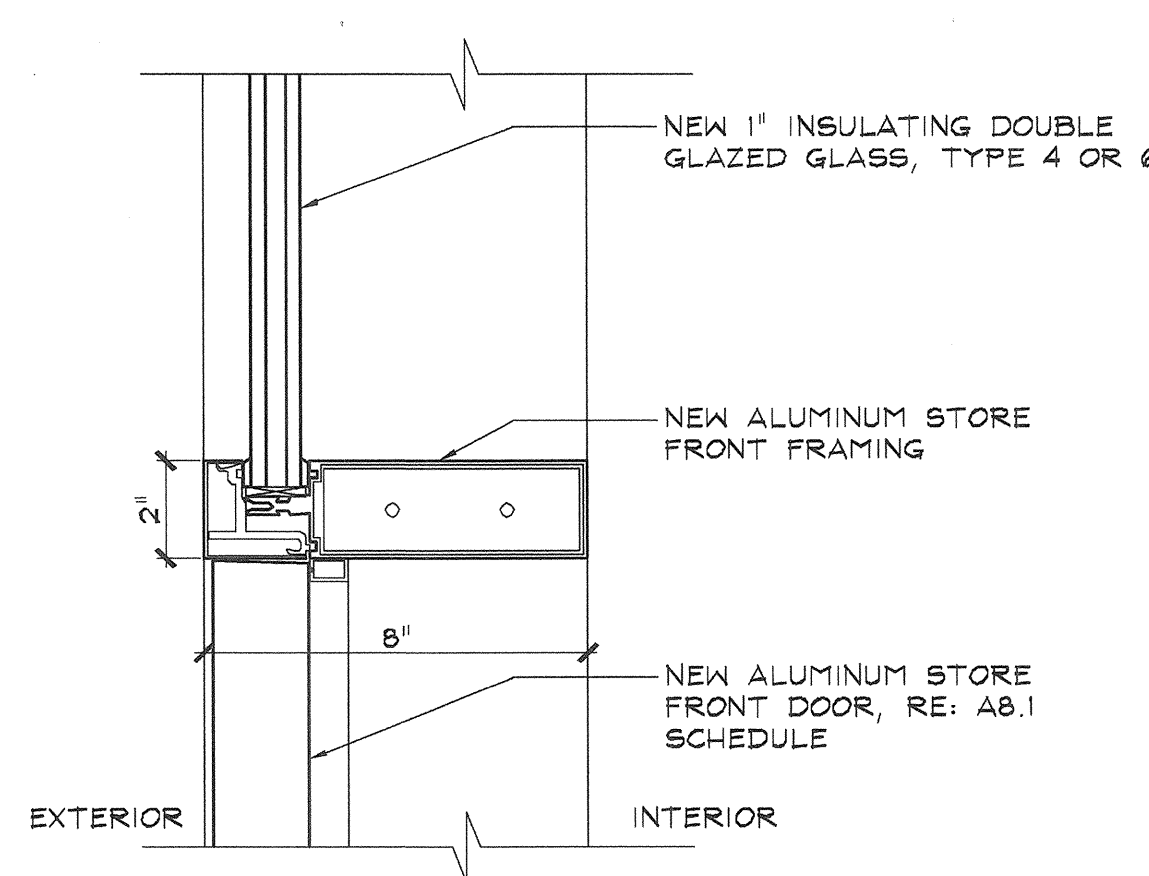
KPI Architects Inc.
600 East Parkridge Avenue, Suite 105
Brookside, IL 60410
Phone: (800) 366-6381 Fax: (877) 483-2059
barnhart, inc.
A HEERY INTERNATIONAL COMPANY



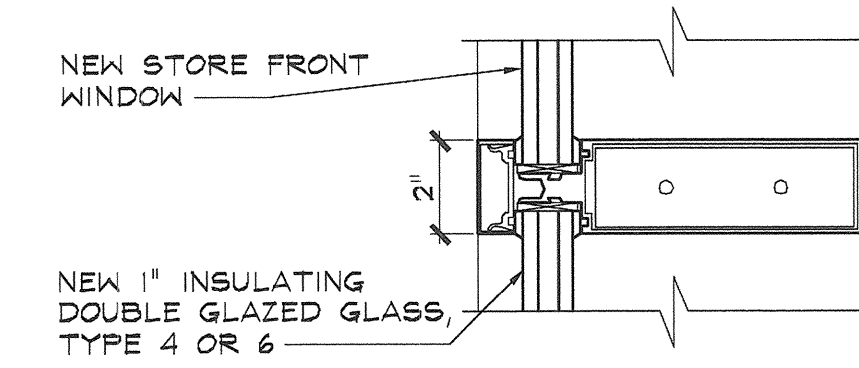
1 HEAD AT TRANSOM
SCALE: 3" = 1'-0"



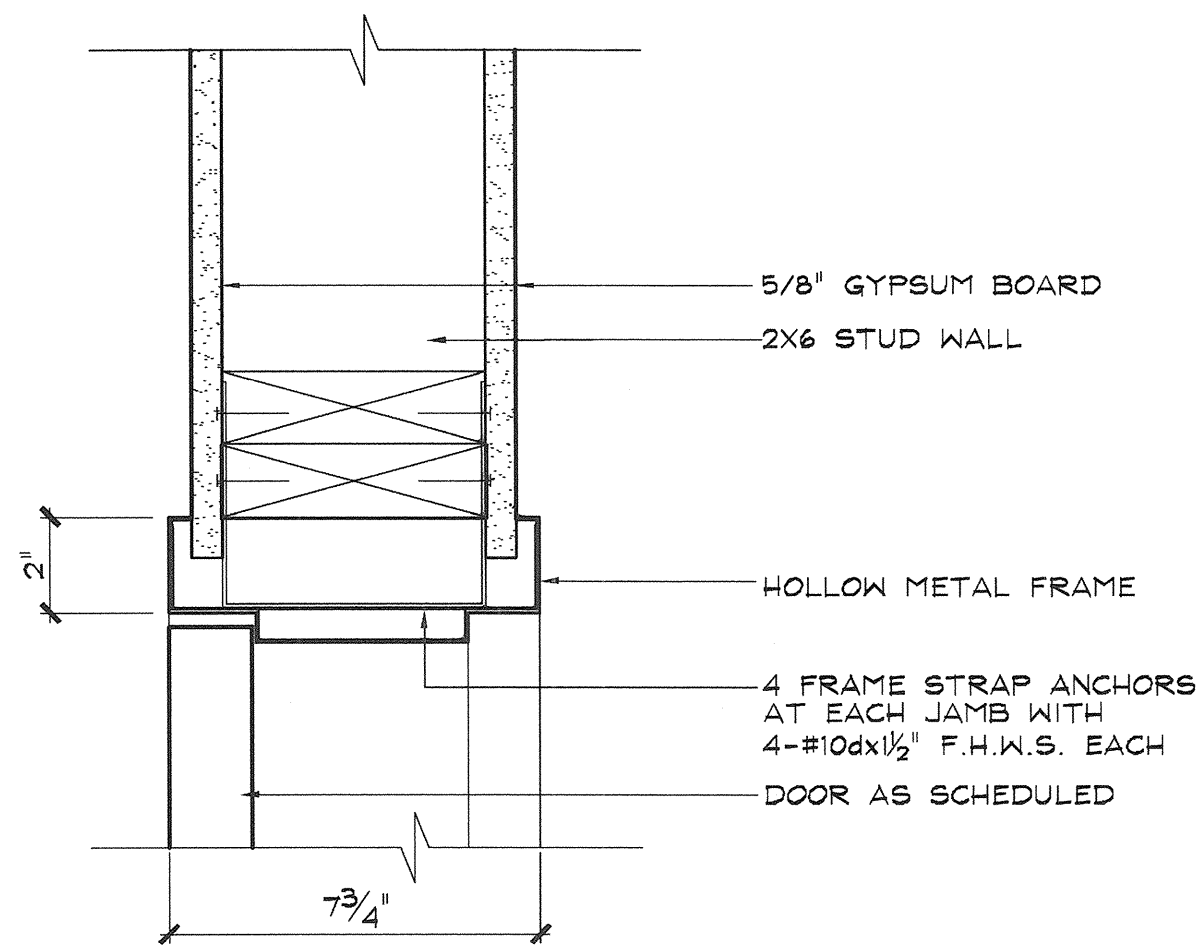
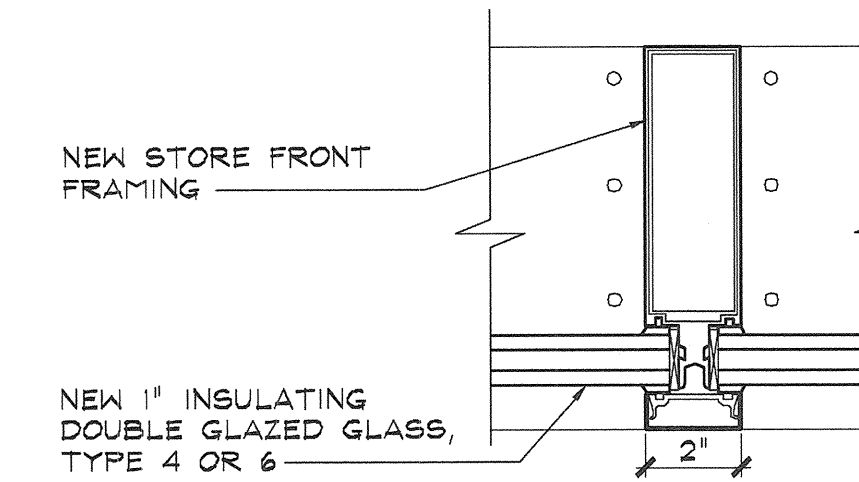
4 NEW EXTERIOR WINDOW HEADER
SCALE: 3" = 1'-0"



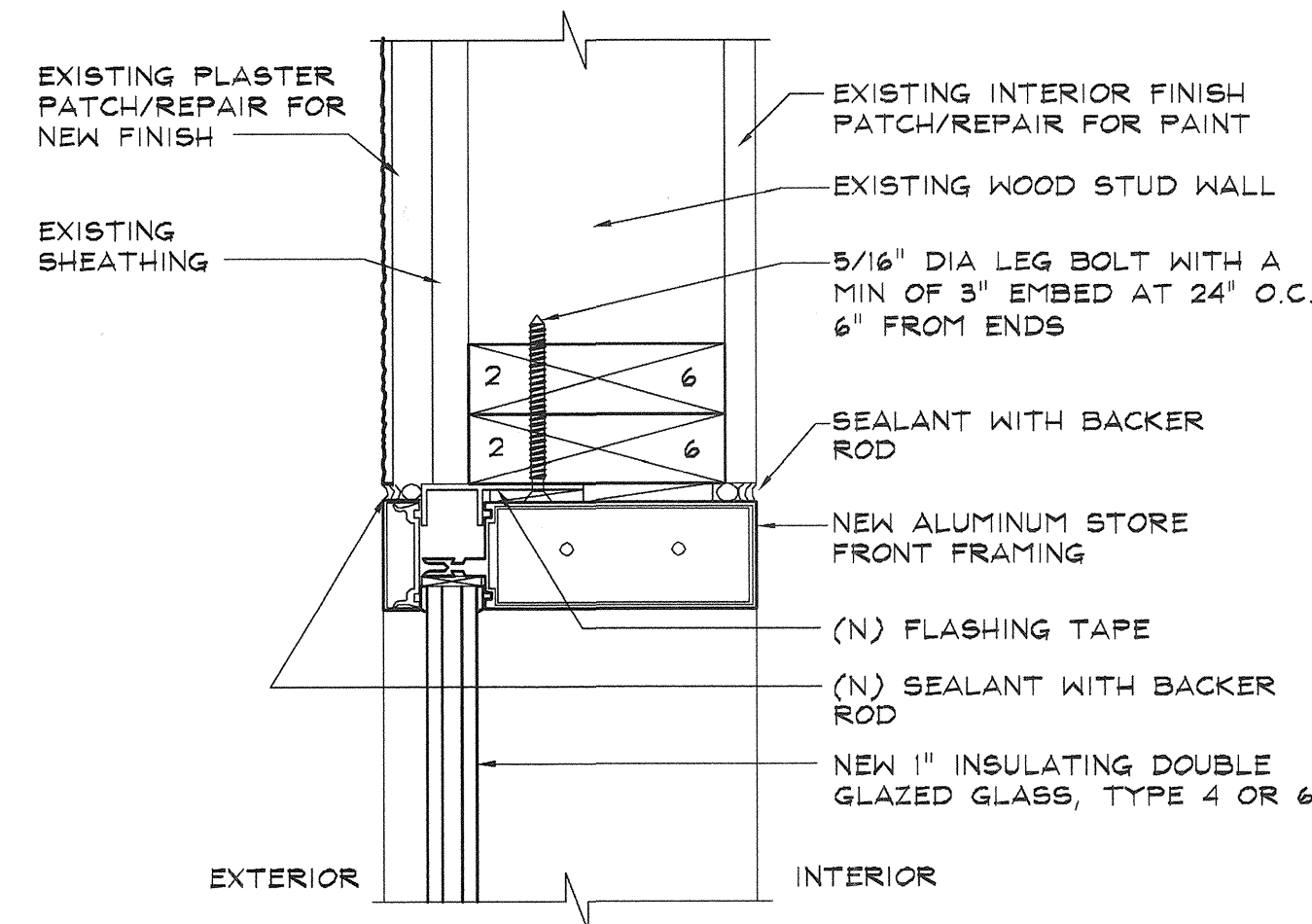
7 EXTERIOR DOOR HEADER/TRANSOM
SCALE: 3" = 1'-0"



10 WINDOW MULLION
SCALE: 3" = 1'-0"

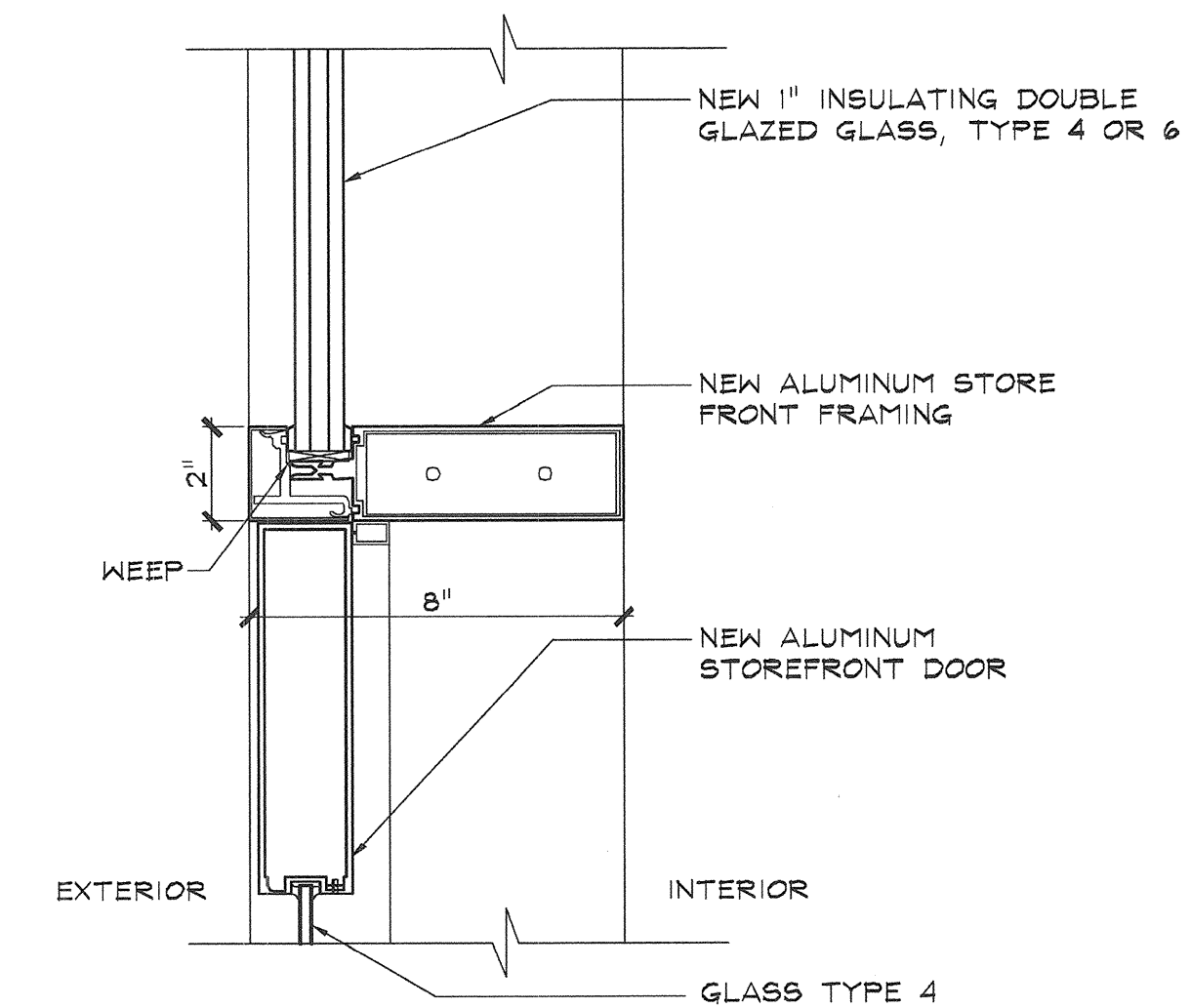


2 DOOR JAMB AT NEW WALL
SCALE: 3" = 1'-0"

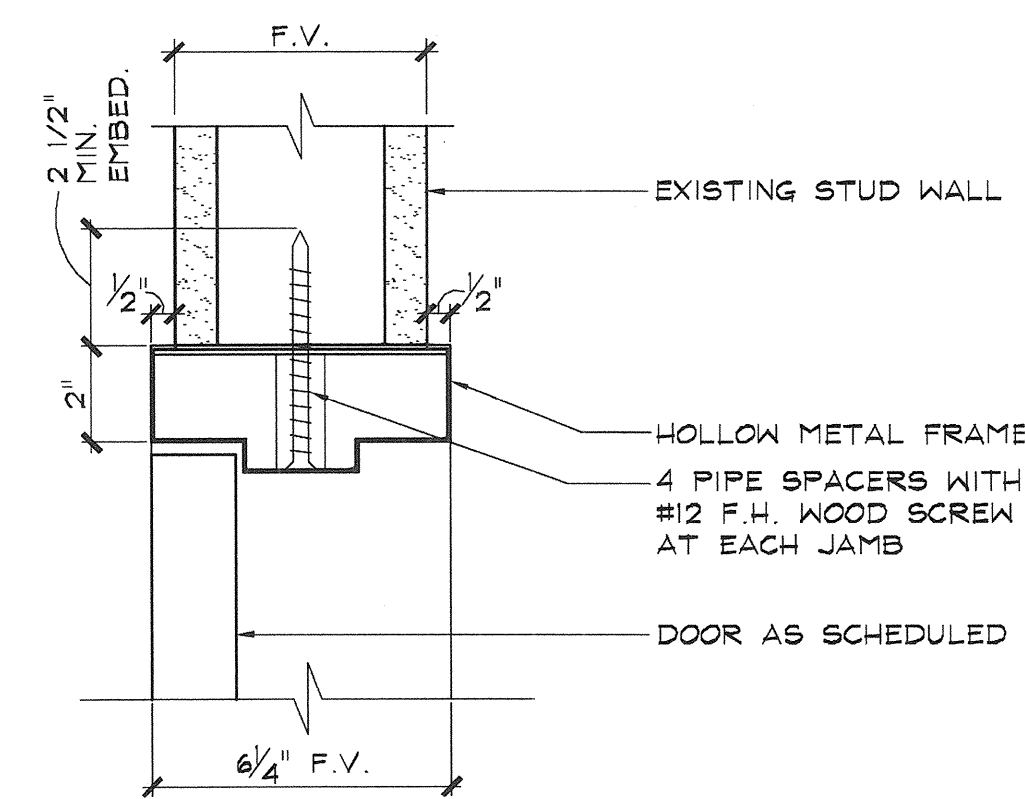


5 NEW EXTERIOR WINDOW JAMB
SCALE: 3" = 1'-0"

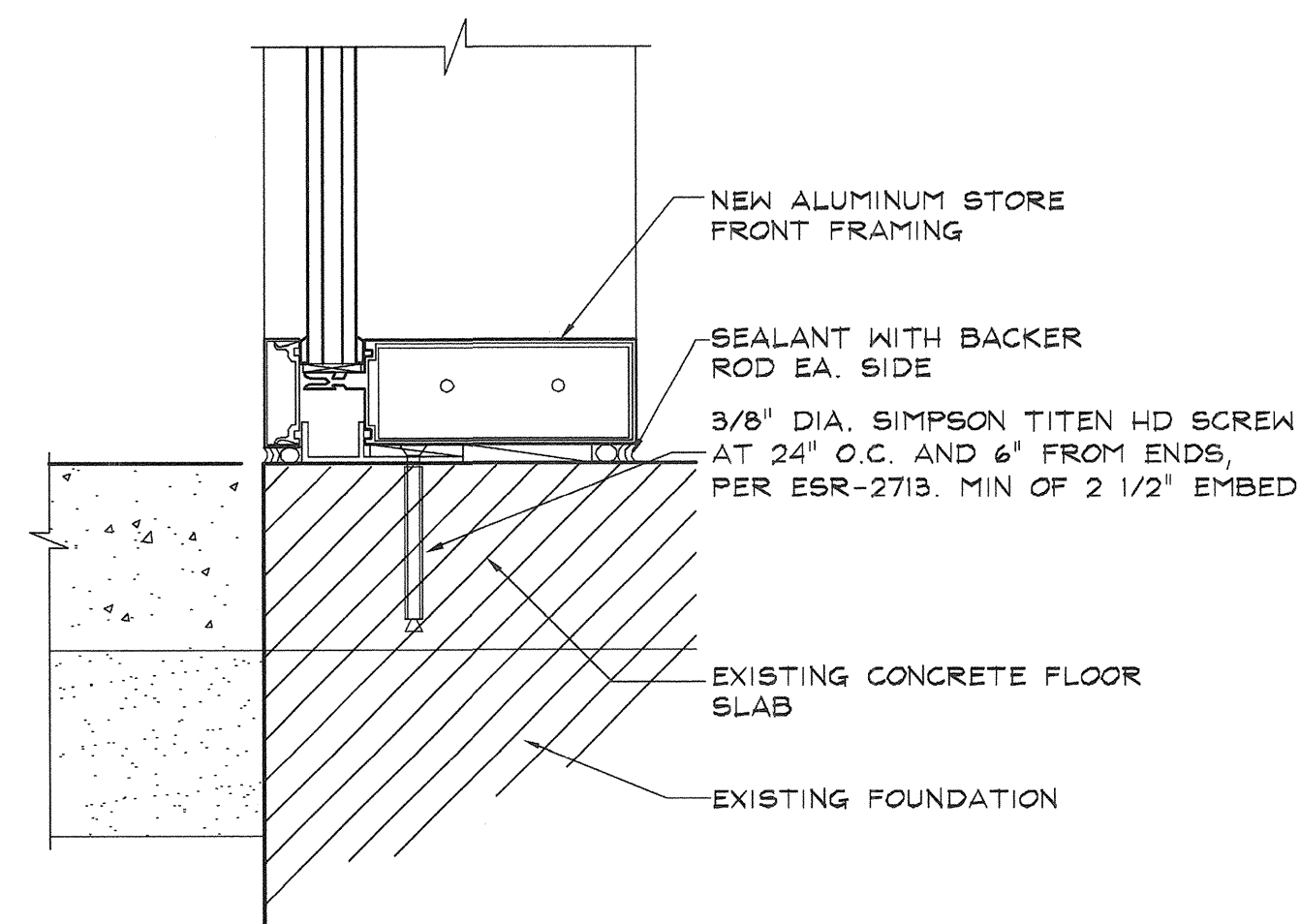
8 NOT USED
SCALE: NONE



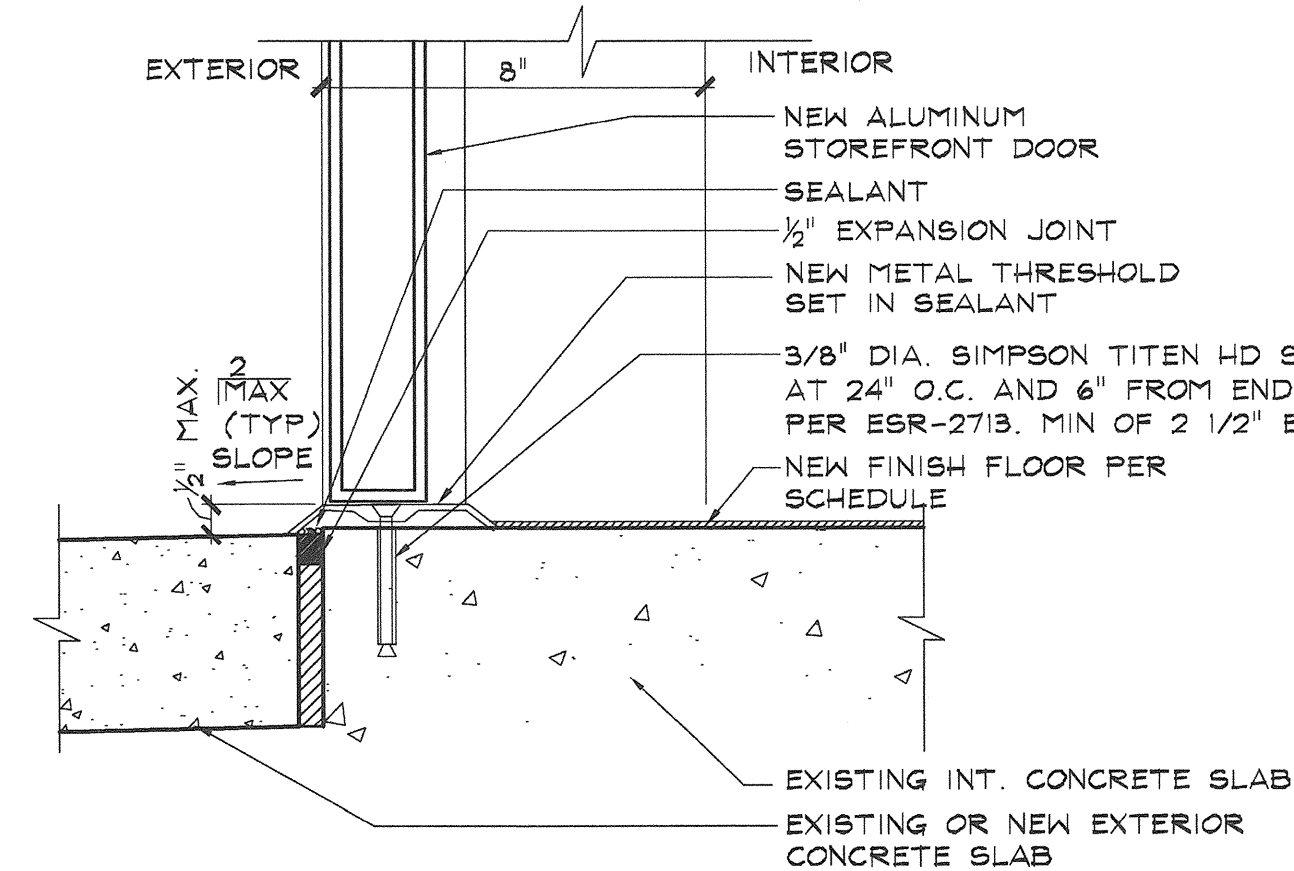
11 EXTERIOR STORE FRONT DOOR JAMB
SCALE: 3" = 1'-0"



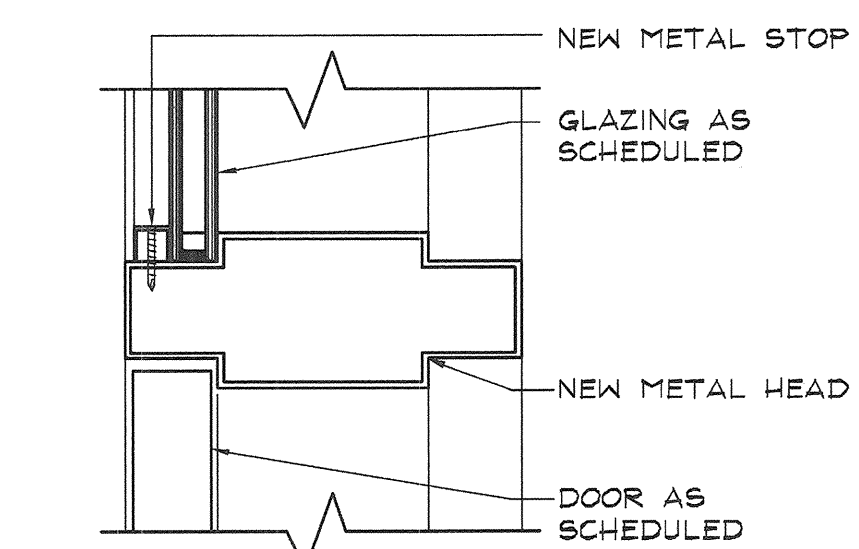
3 DOOR JAMB AT EXISTING STUD WALL (HEAD SIMILAR)
SCALE: 3" = 1'-0"



6 NEW EXTERIOR WINDOW SILL
SCALE: 3" = 1'-0"



9 THRESHOLD AT EXTERIOR
SCALE: 3" = 1'-0"



12 HEAD AT TRANSOM/DOOR
SCALE: 3" = 1'-0"

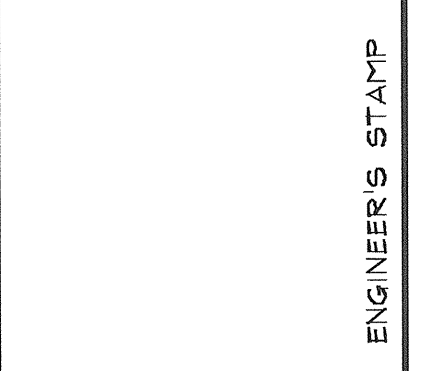
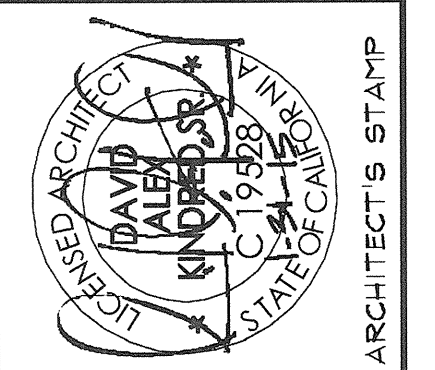
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DIV. OF THE STATE ARCHITECT
APPL 03-113415
AC _____ FLS _____ SS _____
DATE: _____
DSA STAMP

PROJECT NO.: 234808 DATE: 01-07-13

DOOR AND WINDOW DETAILS

13-01R

AD1-A8.2



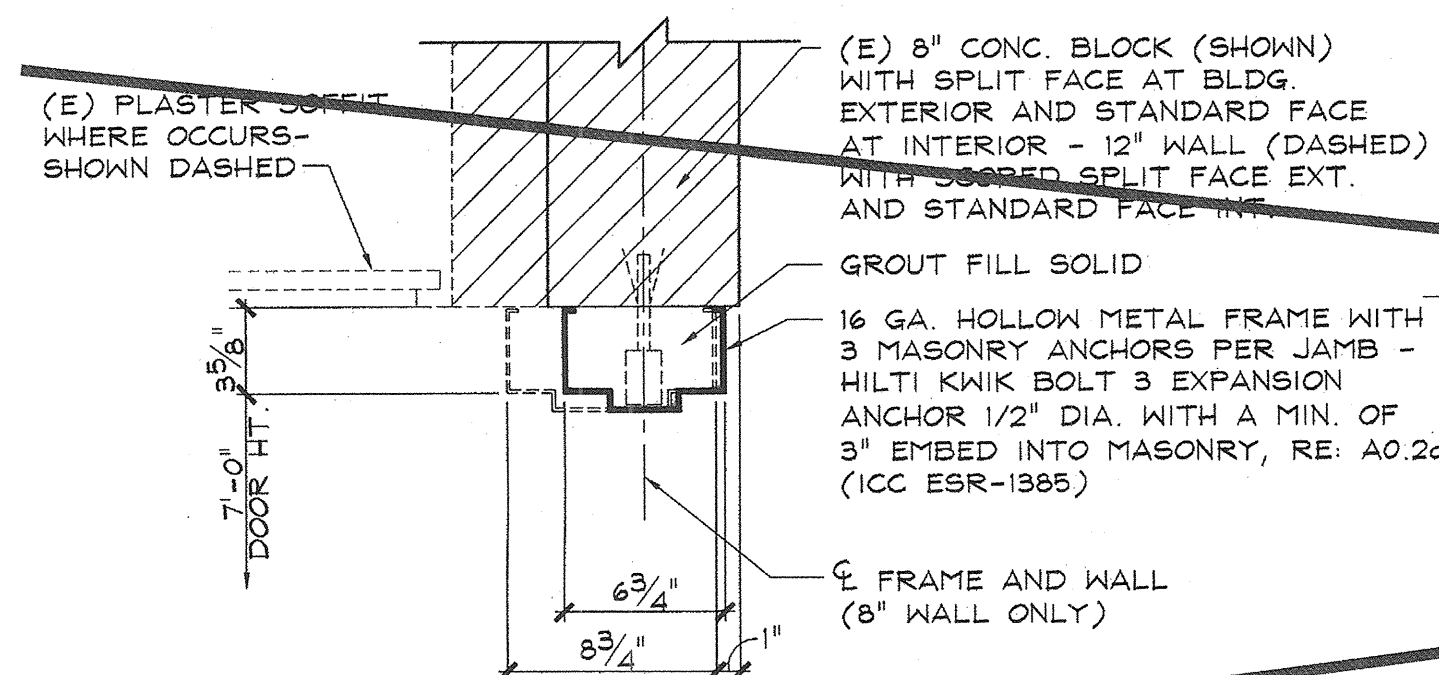
OAK PARK UNIFIED SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL BUILDING B/200 (BID AND CA)

Oak Park
UNIFIED SCHOOL DISTRICT

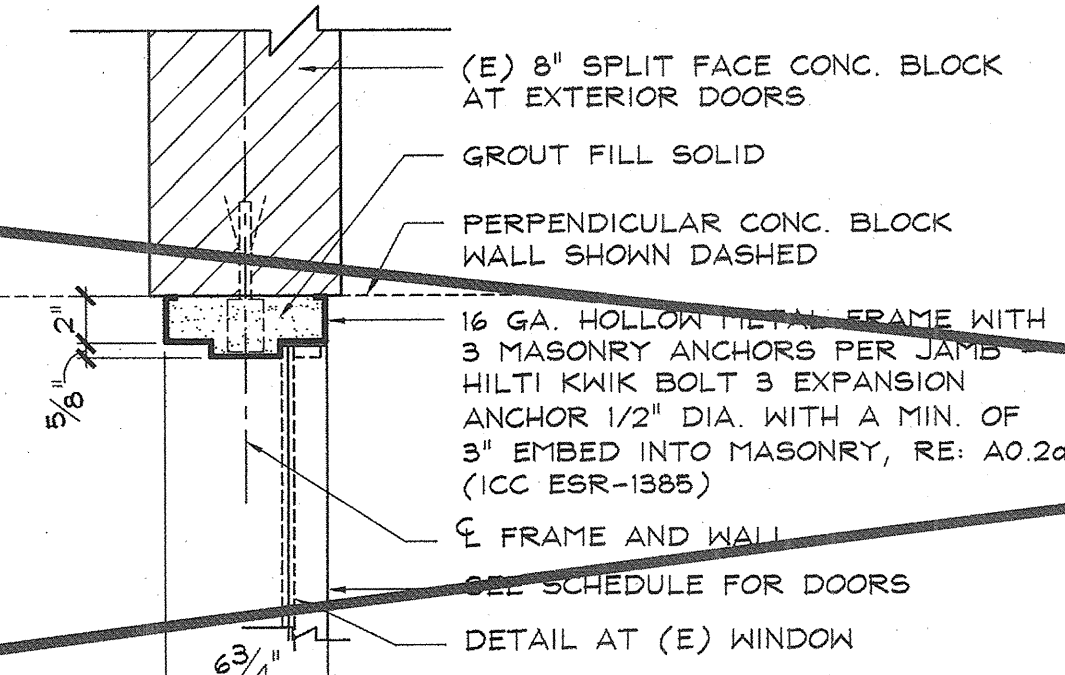
KPI Architects, Inc.
650 East Parkridge Avenue, Suite 105
Corona, California 92719-1822
Phone: (909) 366-5381 Fax: (977) 485-2059

barnhart, inc.
A HEERY INTERNATIONAL COMPANY

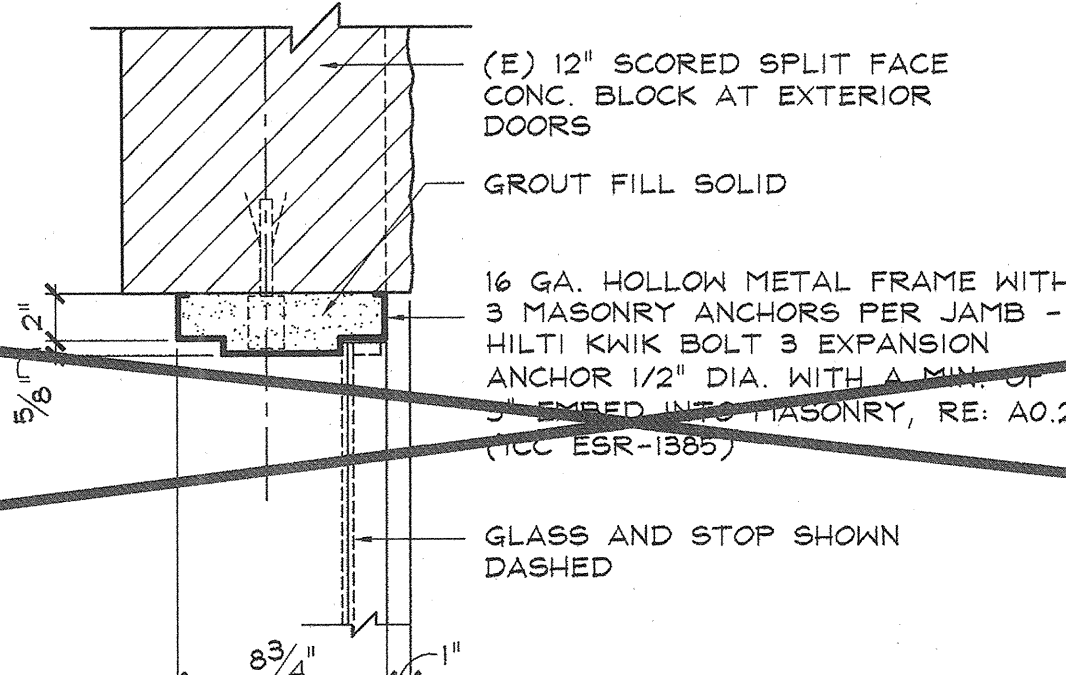
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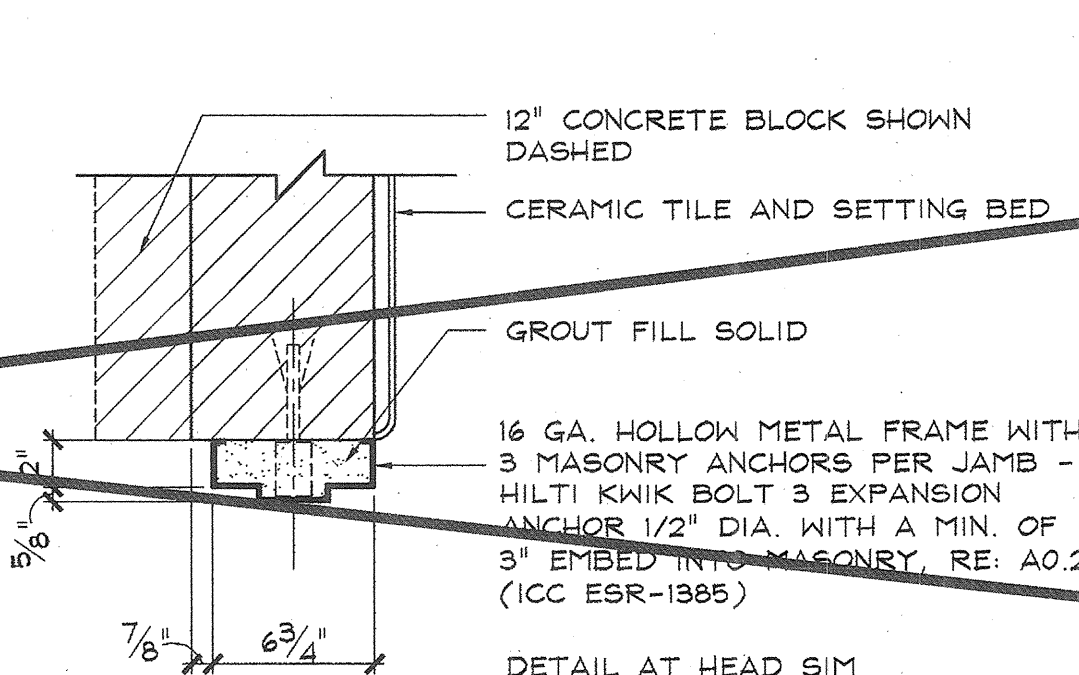
1 TYPICAL HEAD AT BLOCKING
SCALE: 1 1/2" = 1'-0"



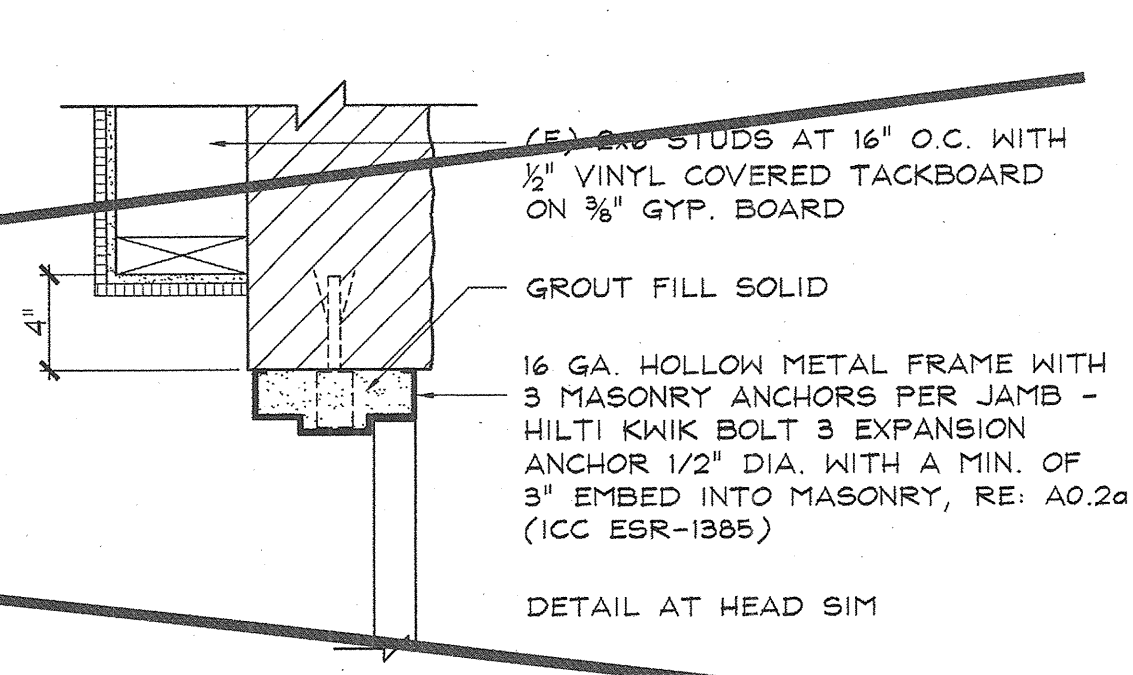
2 JAMB AT 8" BLOCK
SCALE: 1 1/2" = 1'-0"



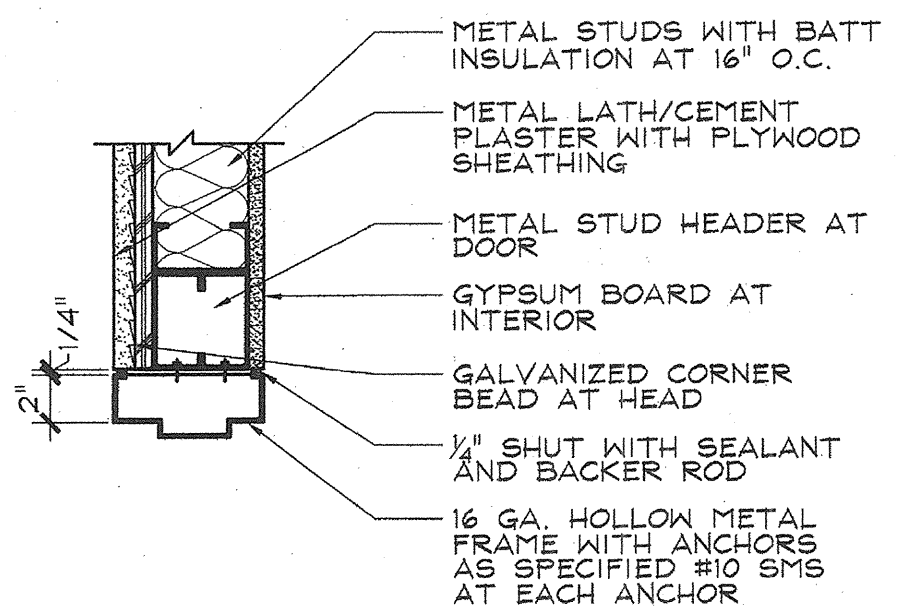
3 JAMB AT 12" BLOCK
SCALE: 1 1/2" = 1'-0"



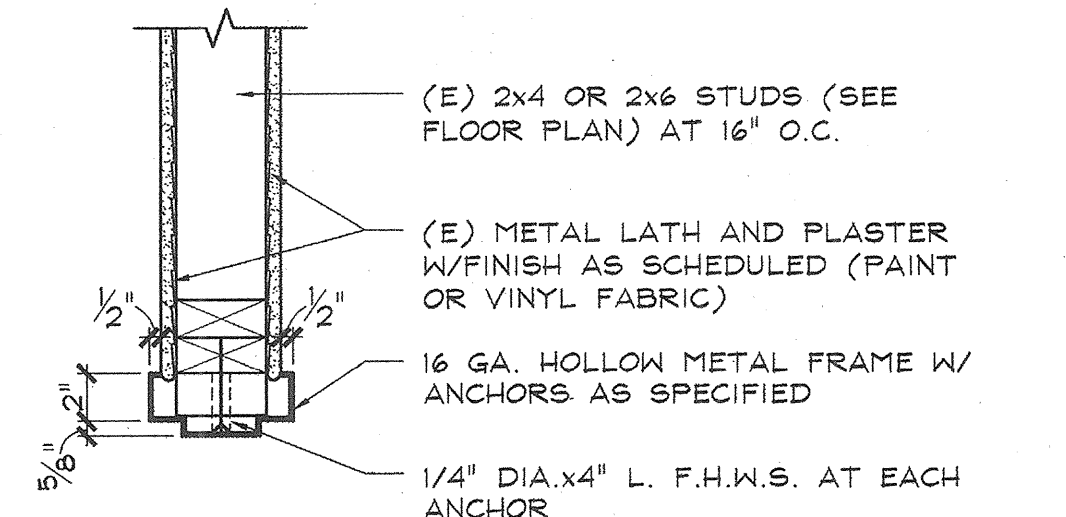
4 JAMB
SCALE: 1 1/2" = 1'-0"



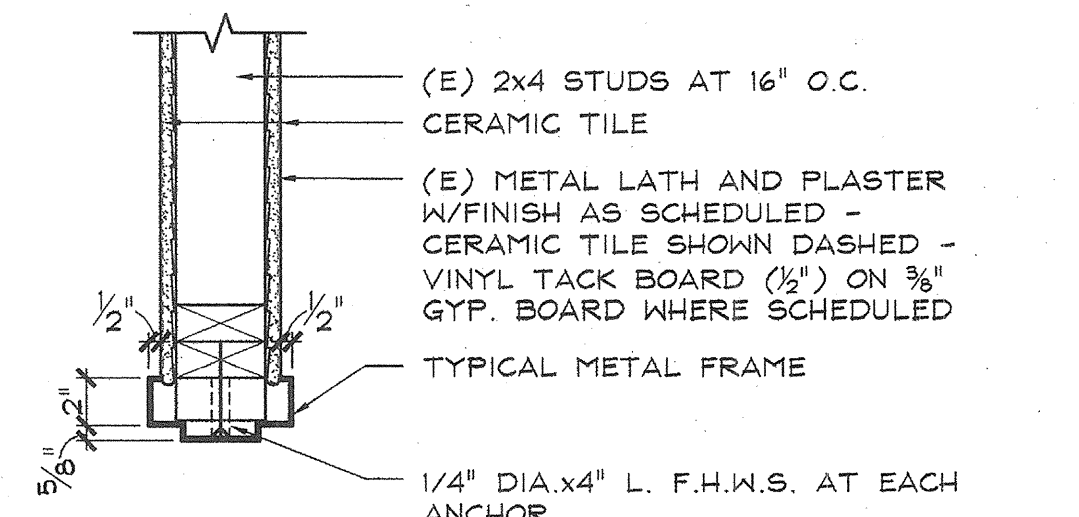
5 JAMB
SCALE: 1 1/2" = 1'-0"



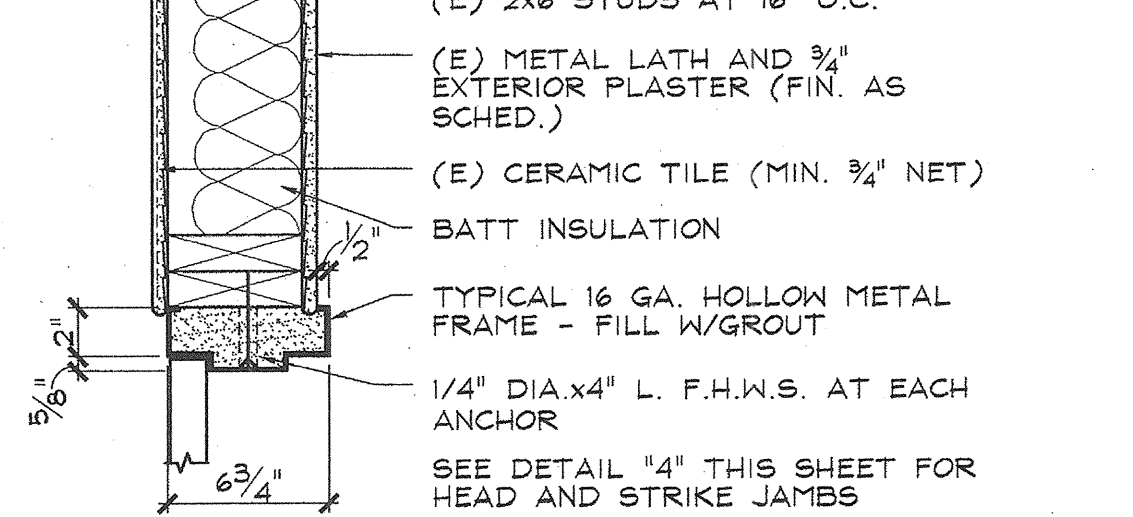
6 NOT USED
SCALE: NONE



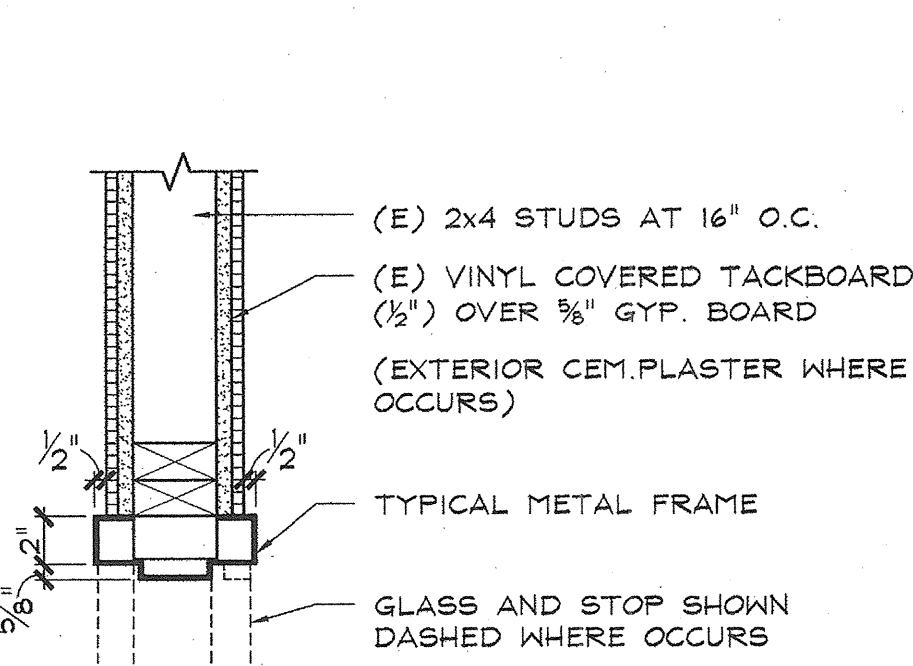
7 HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



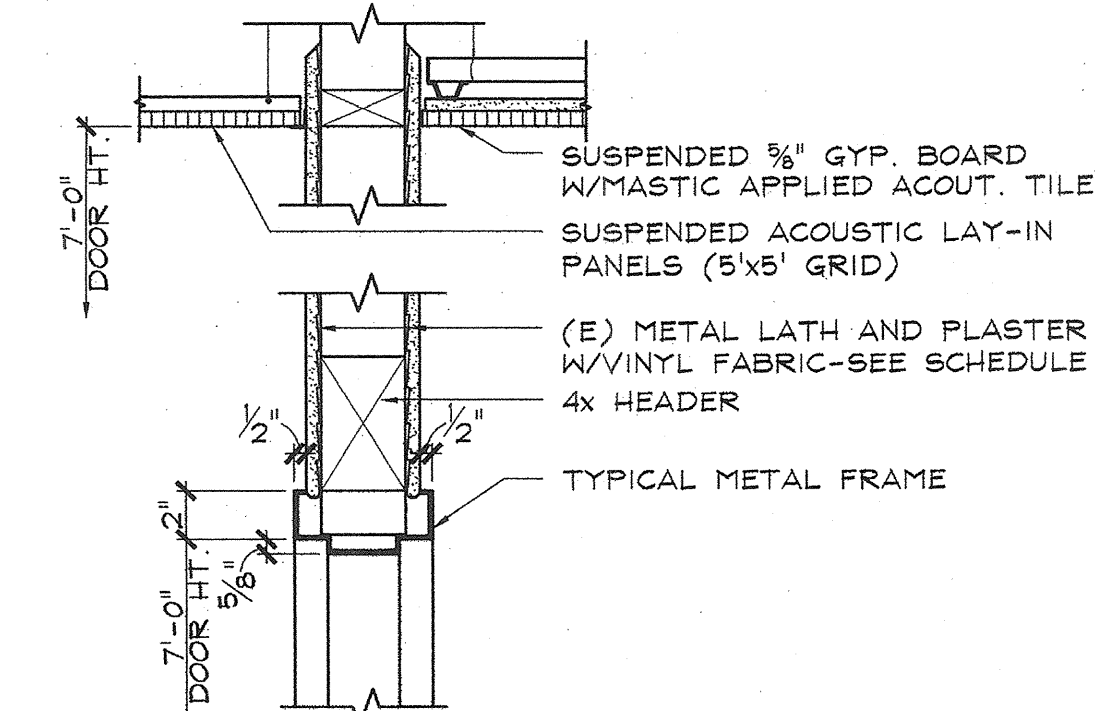
8 TYP. JAMB-HEAD SIM.
SCALE: 1 1/2" = 1'-0"



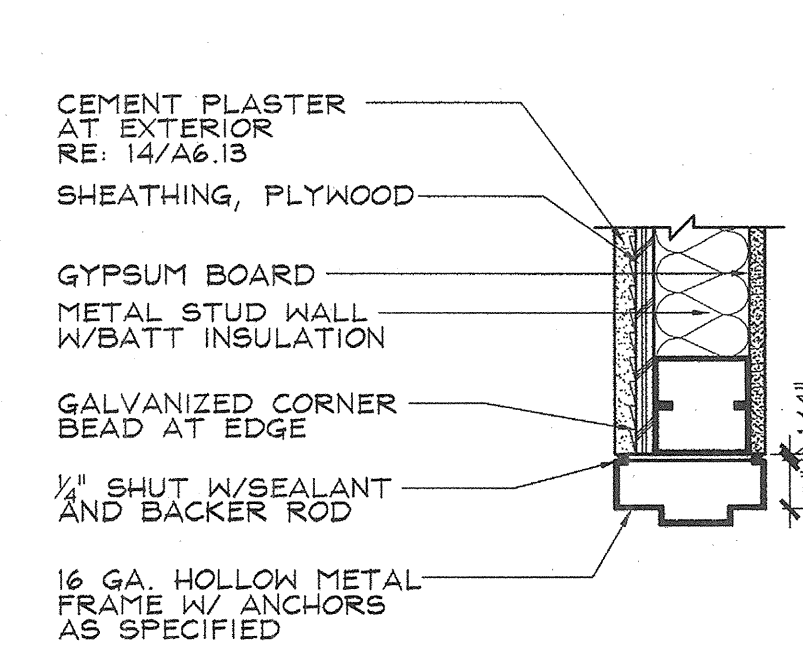
9 JAMB-HEAD SIM.
SCALE: 1 1/2" = 1'-0"



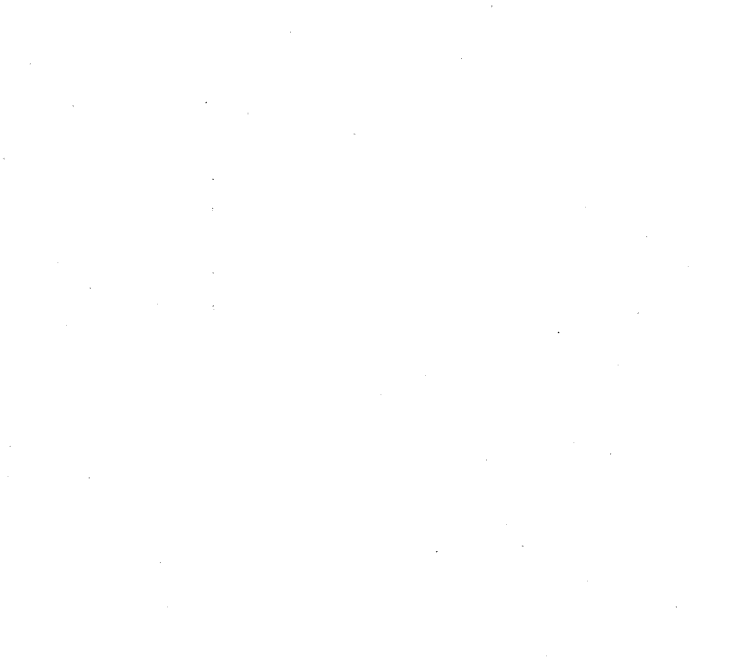
10 JAMB
SCALE: 1 1/2" = 1'-0"



11 JAMB-HEAD SIM.
SCALE: 1 1/2" = 1'-0"



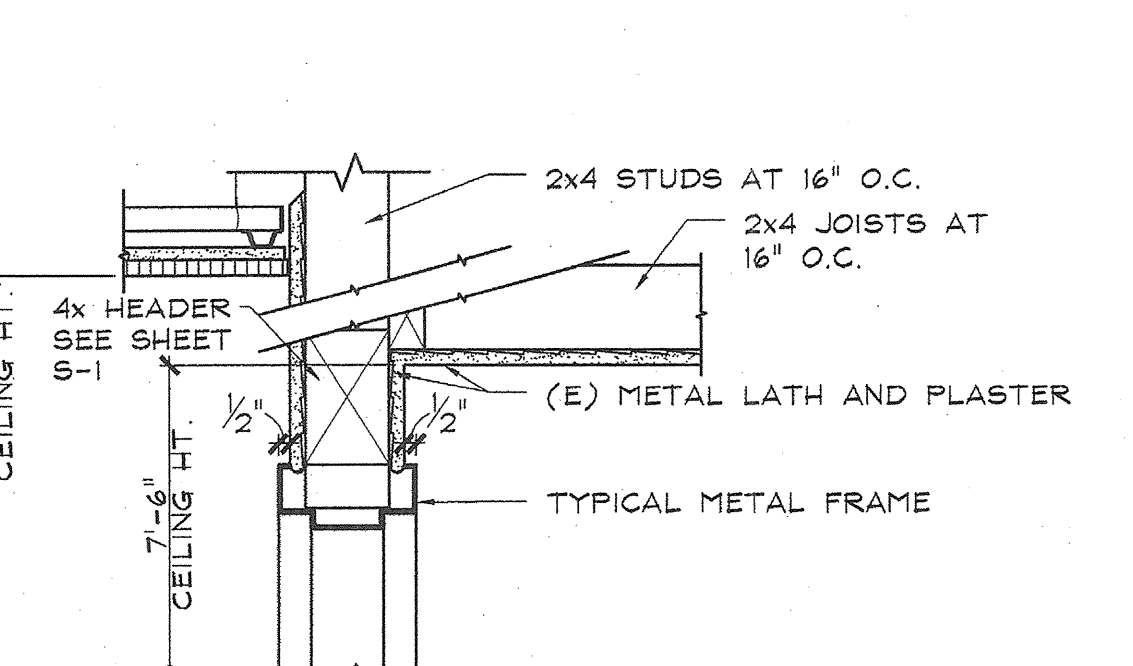
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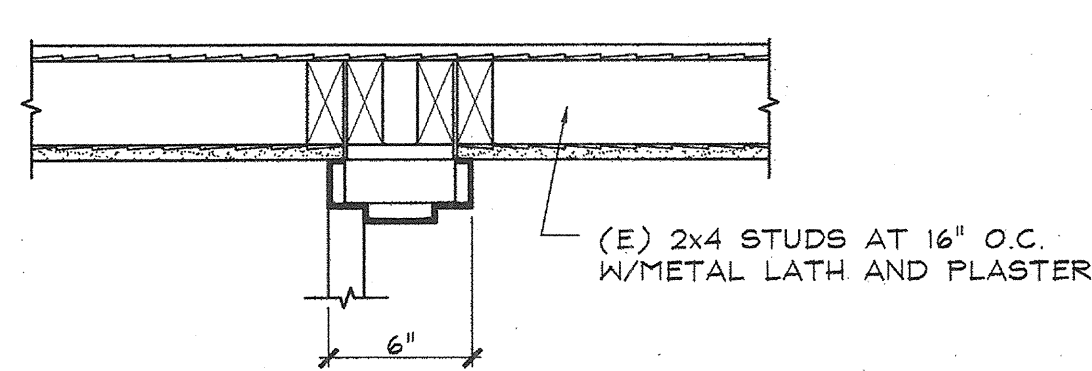
13 JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



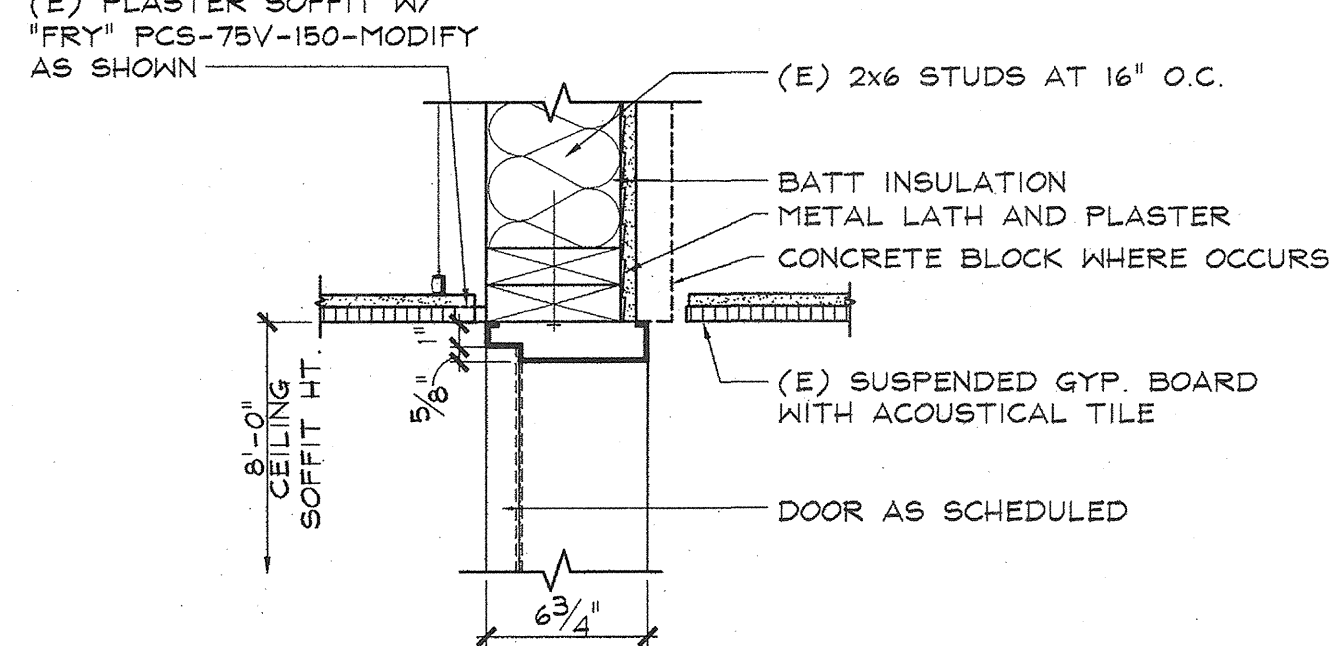
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SCALE: NONE



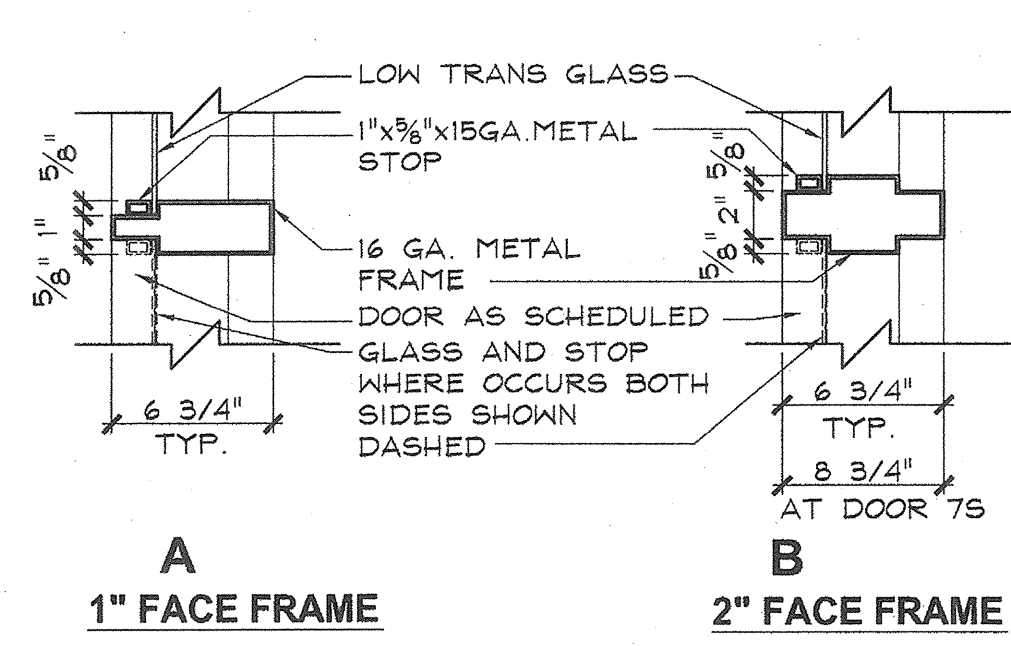
15 HEAD
SCALE: 1 1/2" = 1'-0"



16 JAMB
SCALE: 1 1/2" = 1'-0"



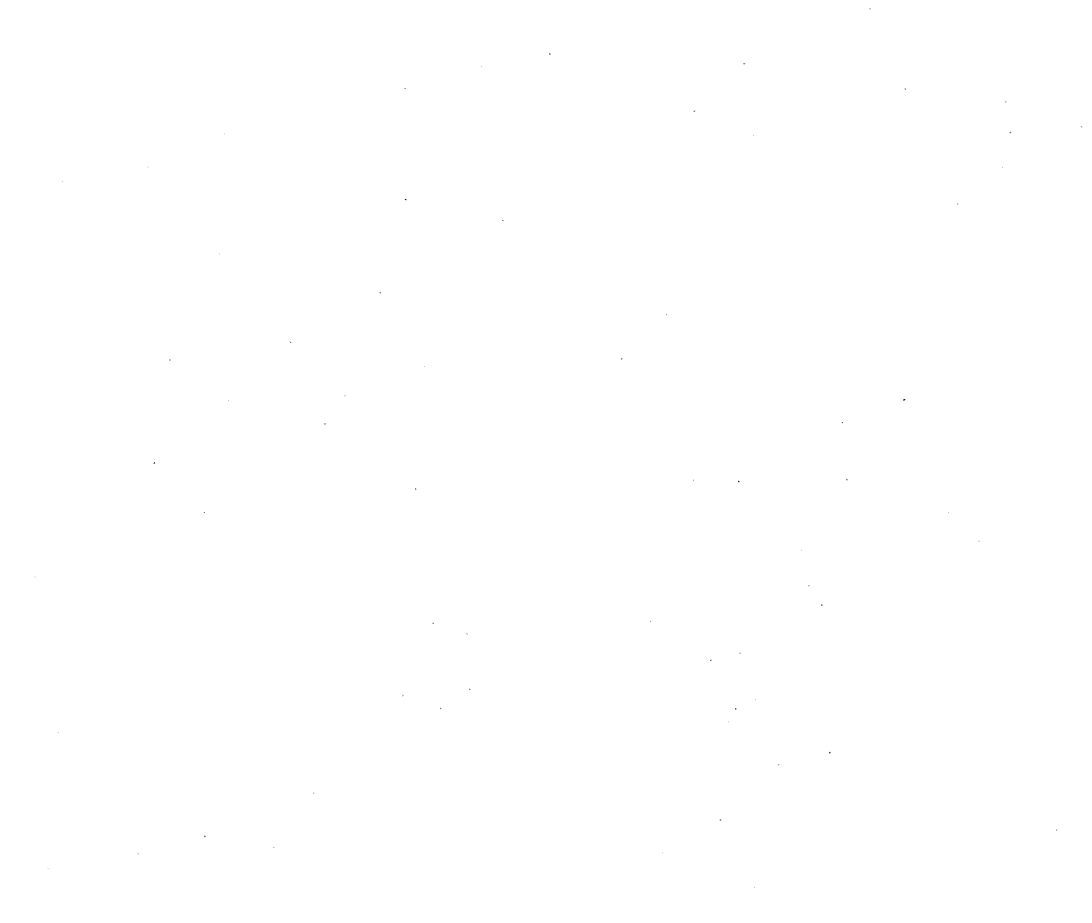
17 HEAD
SCALE: 1 1/2" = 1'-0"



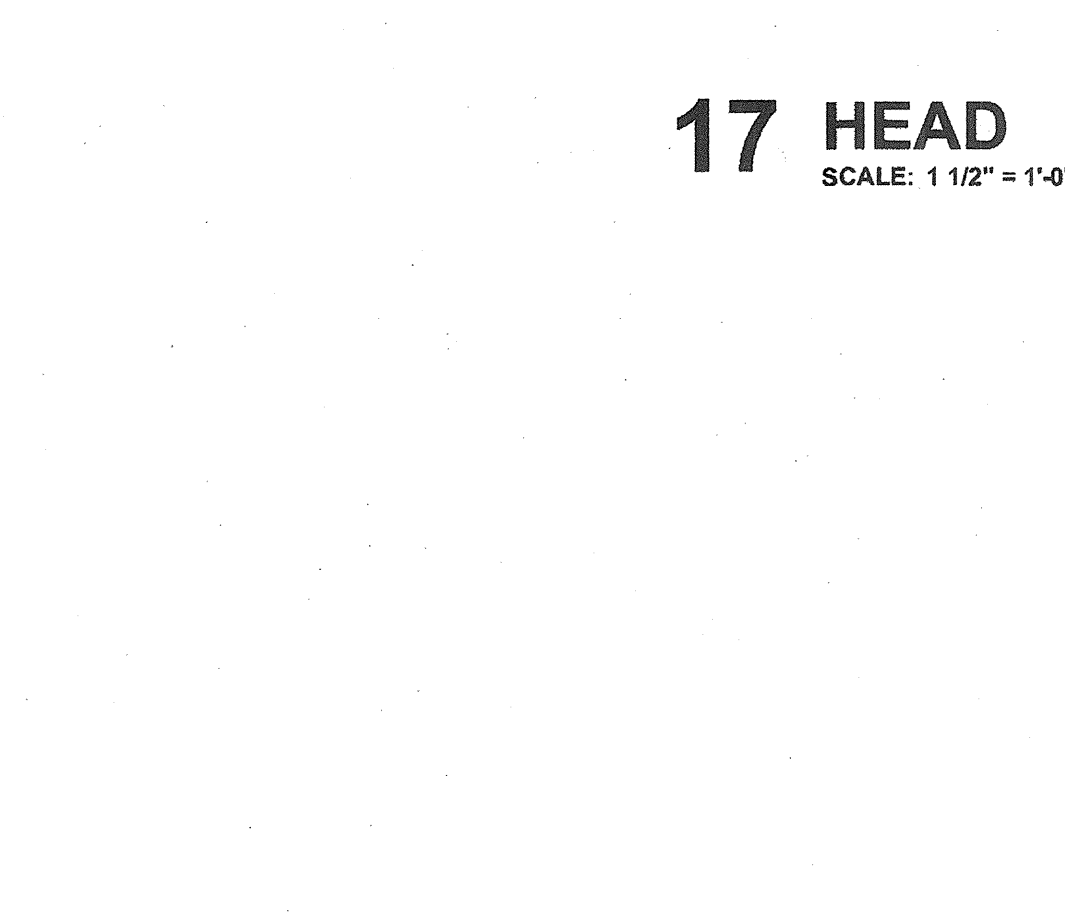
18 DOOR/WINDOW JAMBS
SCALE: 1 1/2" = 1'-0"



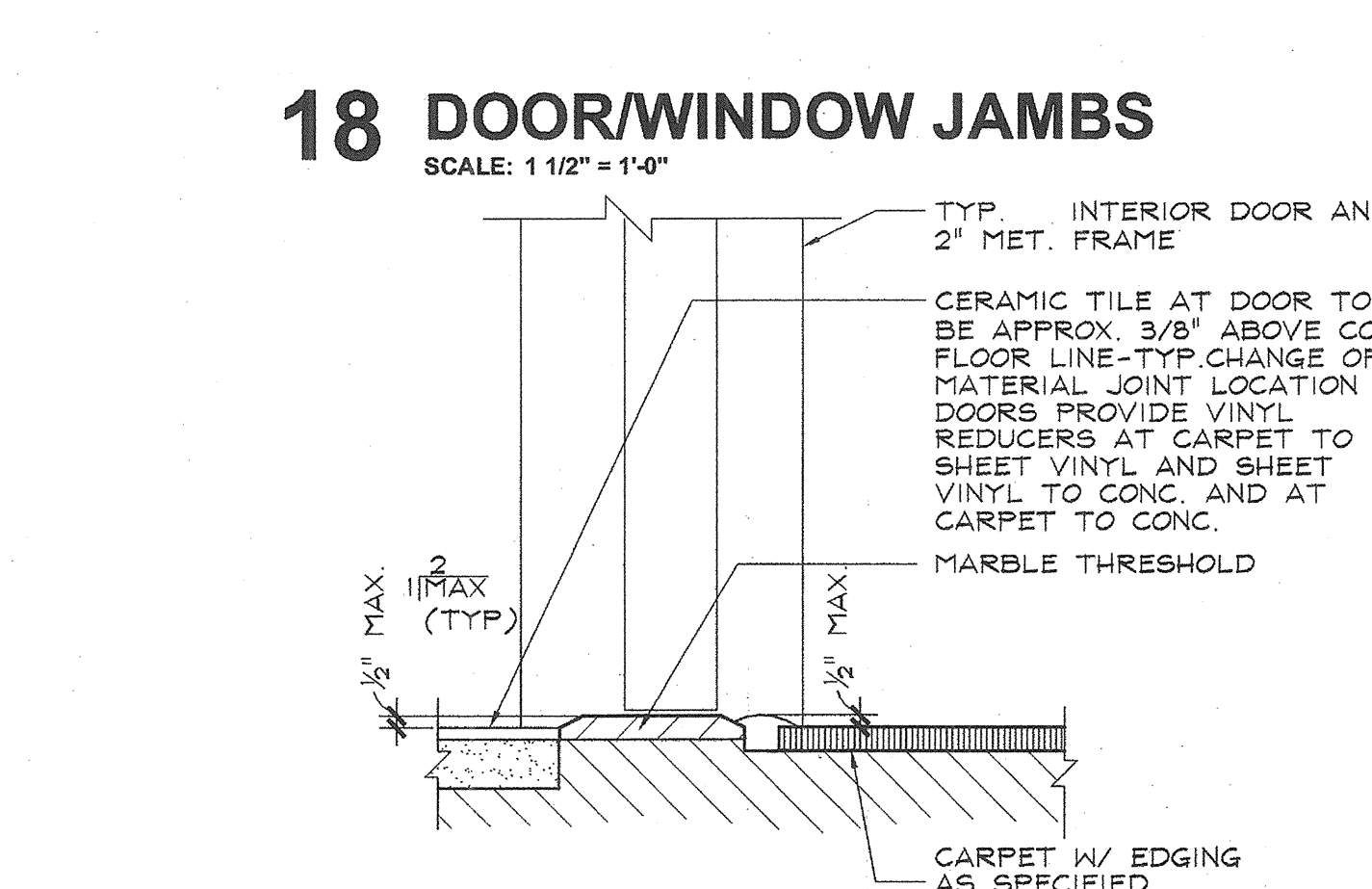
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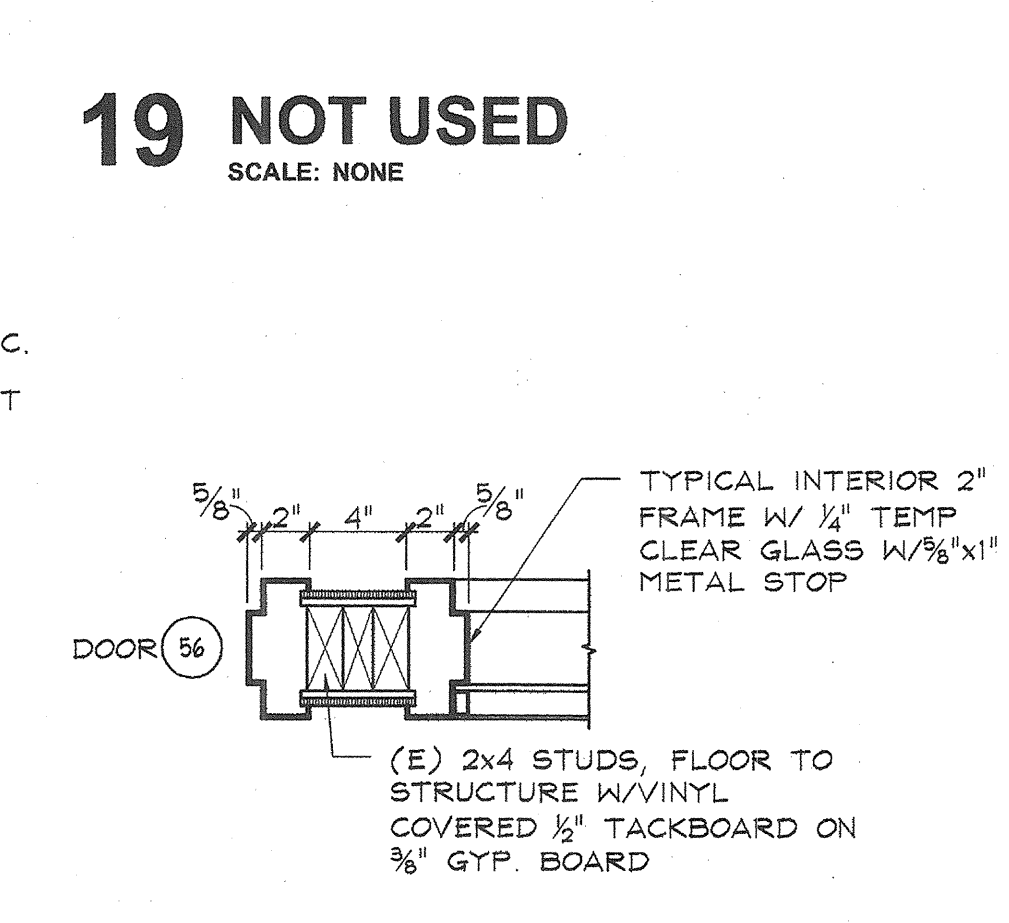
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SCALE: NONE



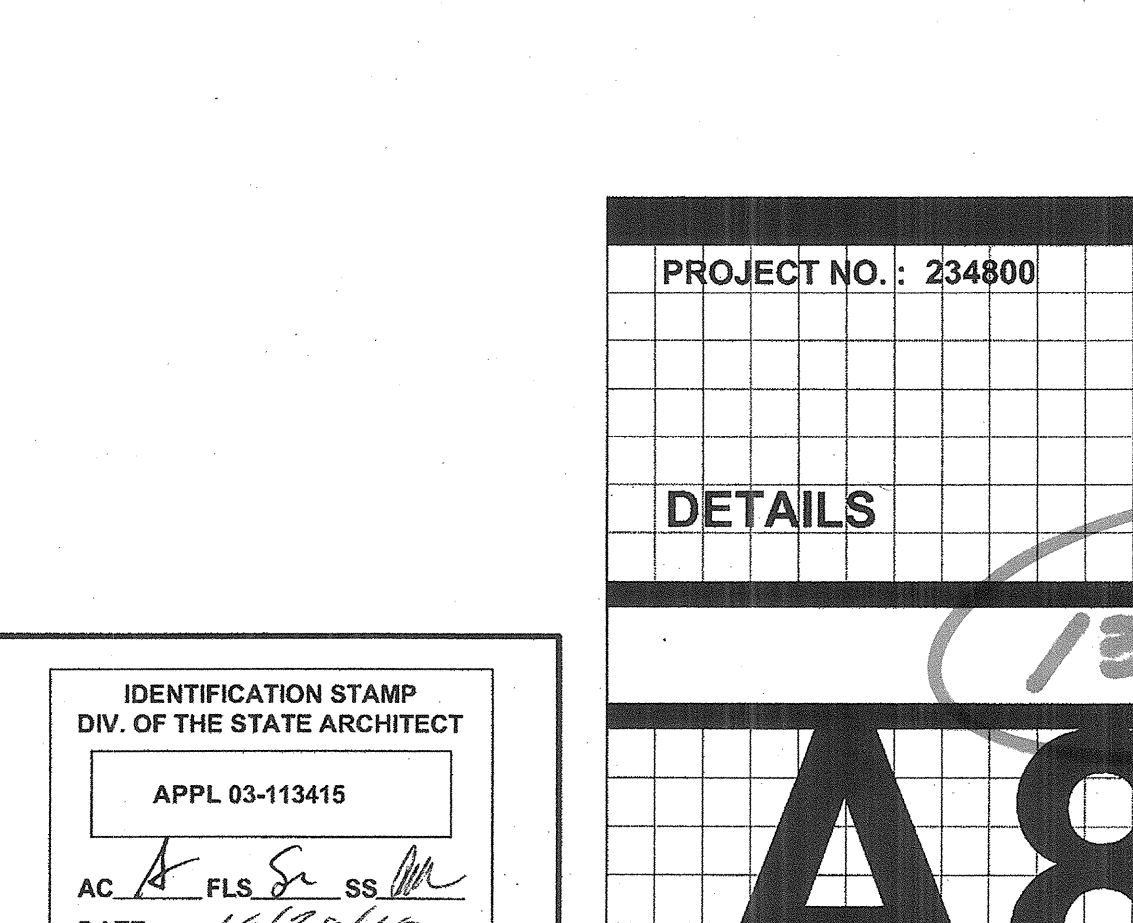
21 NOT USED
SCALE: NONE



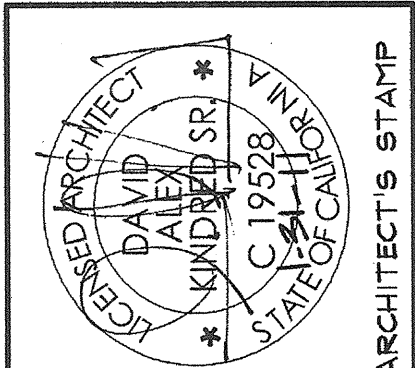
22 NOT USED
SCALE: NONE



23 SILL
SCALE: 3\"/>



24 DOOR/WINDOW JAMB
SCALE: 1 1/2" = 1'-0"



ARCHITECT'S STAMP
ENGINEER'S STAMP

OAK PARK UNIFIED SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
MODERNIZATION
Oak Park UNIFIED SCHOOL DISTRICT

KPI Architects Inc.
650 East Parkridge Avenue, Suite 105
Corona, California 92719-1092
Phone: (951) 366-5381 Fax: (971) 493-2059
barnhart, inc.
A HENRY INTERNATIONAL COMPANY

PROJECT NO.: 234800 DATE: 09-02-09

DETAILS

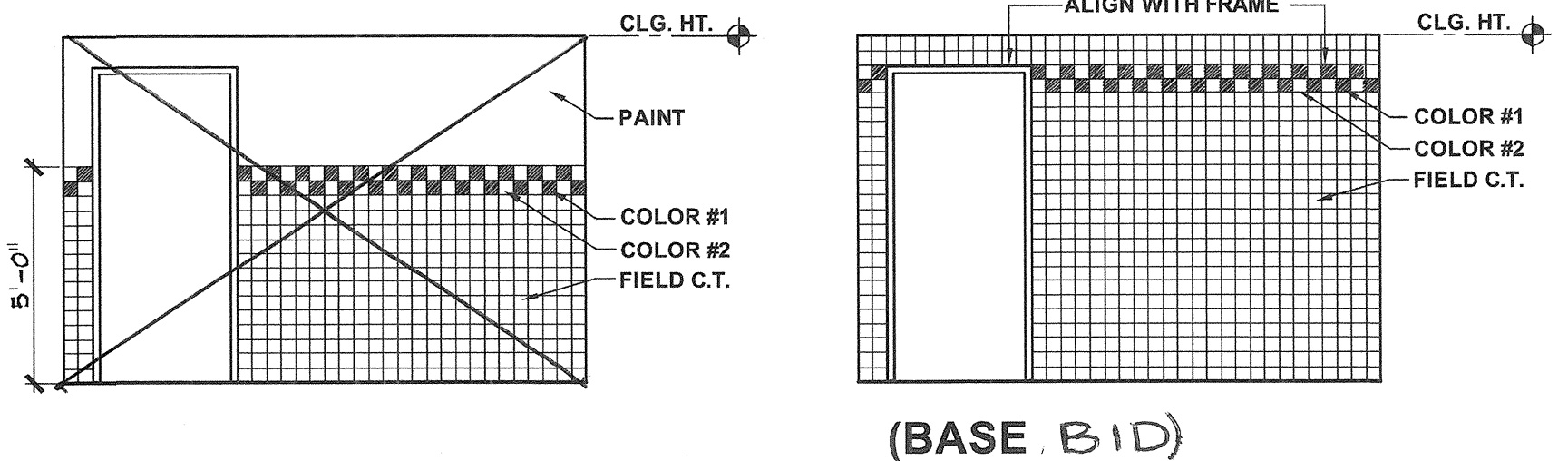
13-02R
A8.3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 03-113415
AC. *FLS* SS *SS*
DATE: *10/20/10*
DSA STAMP

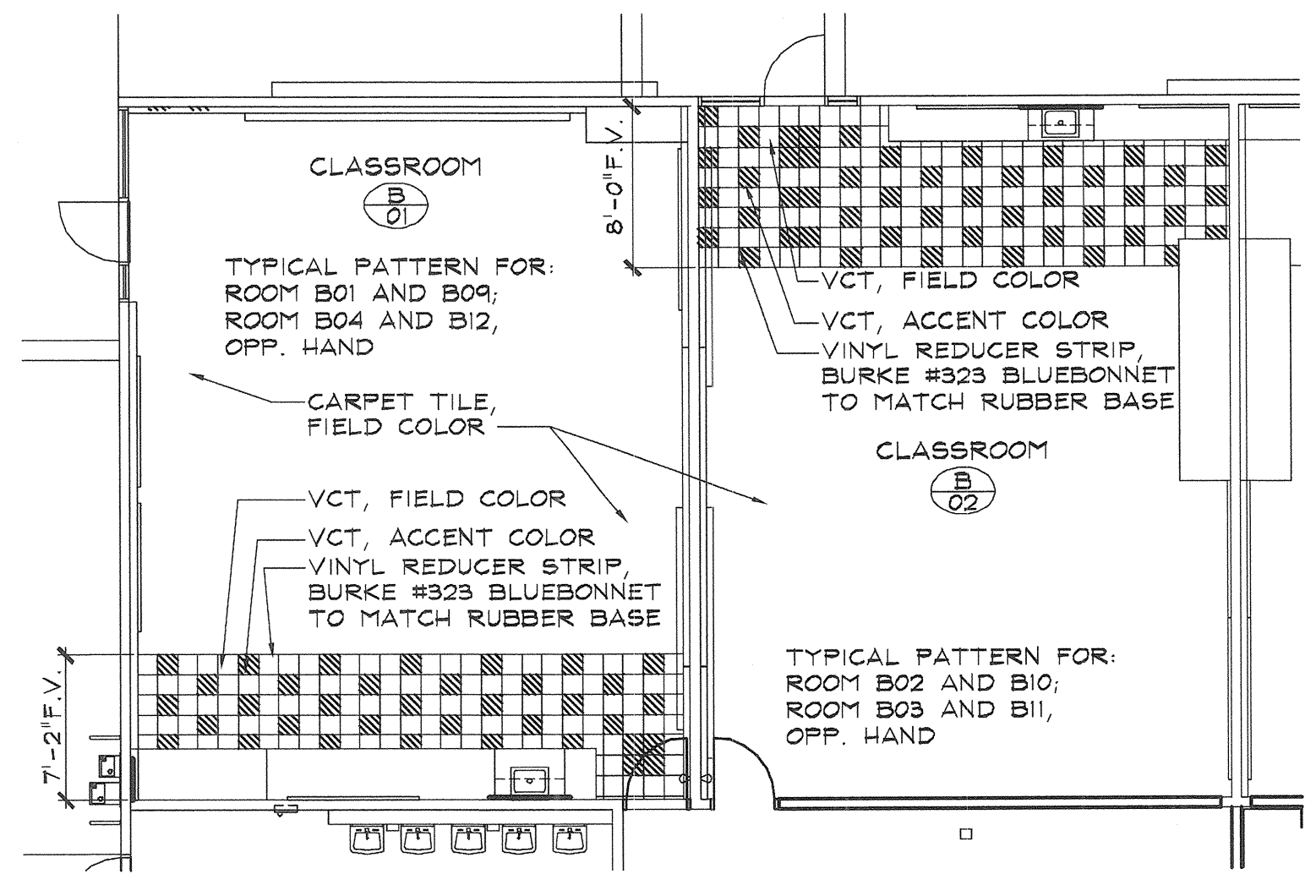
Oak Park Unified School District/Brookside Elementary School Modernization Drawings/234800-A8.3.dwg, 10/02/2010 10:24:04 AM, roger

INTERIOR FINISH SCHEDULE

MK	Room Name	Walls												Ceiling	M=Material N=Notes Remarks			
		Floor		Base		North		East		South		West						
		M	N	M	N	M	N	M	N	M	N	M	N			M	N	HGT
01	CLASSROOM	B	A	-	G	-	P	3	P	3	P	3	P	3	V	-	10'-0"	
02	CLASSROOM	B	A	-	G	-	P	3	P	3	P	3	P	3	V	-	10'-0"	
03	CLASSROOM	B	A	-	G	-	P	3	P	3	P	3	P	3	V	-	10'-0"	
04	CLASSROOM	B	A	-	G	-	P	3	P	3	P	3	P	3	V	-	10'-0"	
05	ELECTRICAL	(E)	-	(E)	-	-	-	-	-	-	-	-	-	-	-	-	10'-0"	NO WORK IN ELECTRICAL
06	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
07	JANITOR	(E)	-	(E)	-	-	-	-	-	-	-	-	-	-	-	-	-	NO WORK IN JANITOR
08	HALL	F	-	G	-	P	3	P	3	P	3	-	-	V	-	10'-0"		
09	CLASSROOM	B	A	-	G	-	P	3	P	3	P	3	P	3	V	-	10'-0"	
10	CLASSROOM	B	A	-	G	-	P	5	P	3	P	3	P	3	V	-	10'-0"	
11	CLASSROOM	B	A	-	G	-	P	5	P	3	P	3	P	3	V	-	10'-0"	
12	CLASSROOM	B	A	-	G	-	P	3	P	3	P	3	P	3	V	-	10'-0"	
13	HALL	B	-	G	-	P	3	-	-	P	3	-	-	V	-	10'-0"		
14	BOYS'	C	-	H	-	O	-	O	-	O	-	O	-	(E)T	3	10'-0"	RE: 3/AD1-A9.1	
15	EQUIPMENT	(E)	-	(E)	-	-	-	-	-	-	-	-	-	(E)	-	10'-0"	CEILING PATCH / PAINT	
16	GIRLS'	C	-	H	-	O	-	O	-	O	-	O	-	(E)T	3	10'-0"	NO WORK IN EQUIPMENT	
17	COMPUTER LAB	A	-	G	-	P	5	P	5	P	5	P	3	V	-	10'-0"	CEILING PATCH / PAINT	
18	LIBRARY	A	-	G	-	P	3	P	3	P	3	P	3	V	-	10'-0"	RE: 4,7/AD1-A9.1	

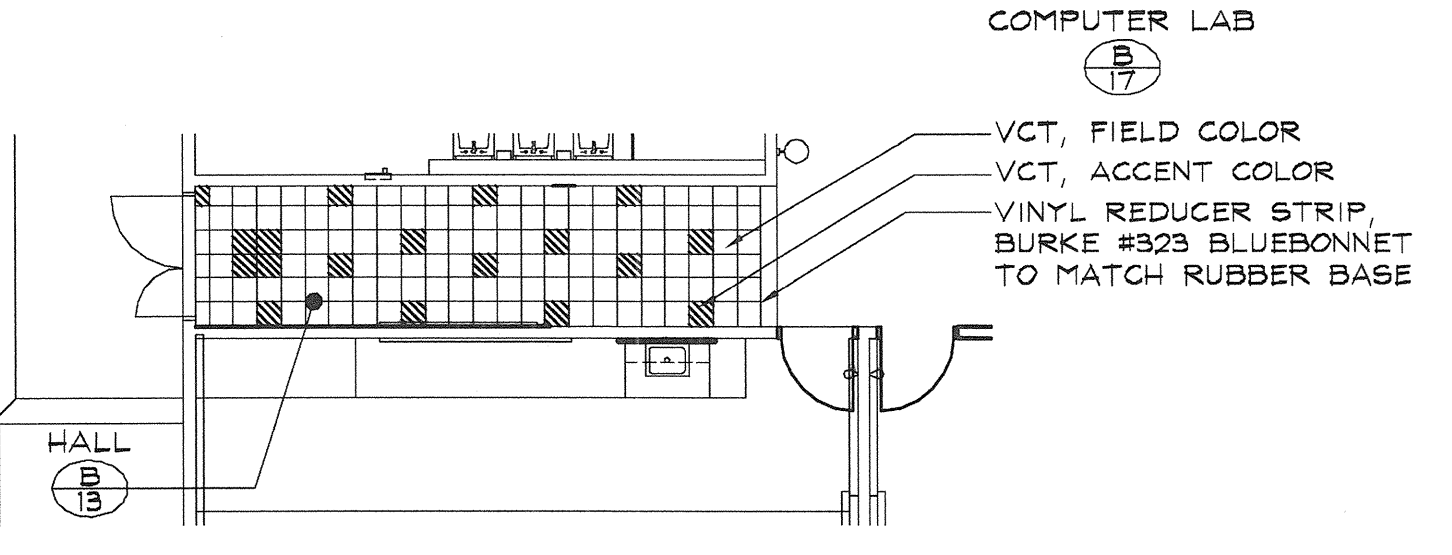


1 TYPICAL TOILET ELEVATION
SCALE: 1/4" = 1'-0"



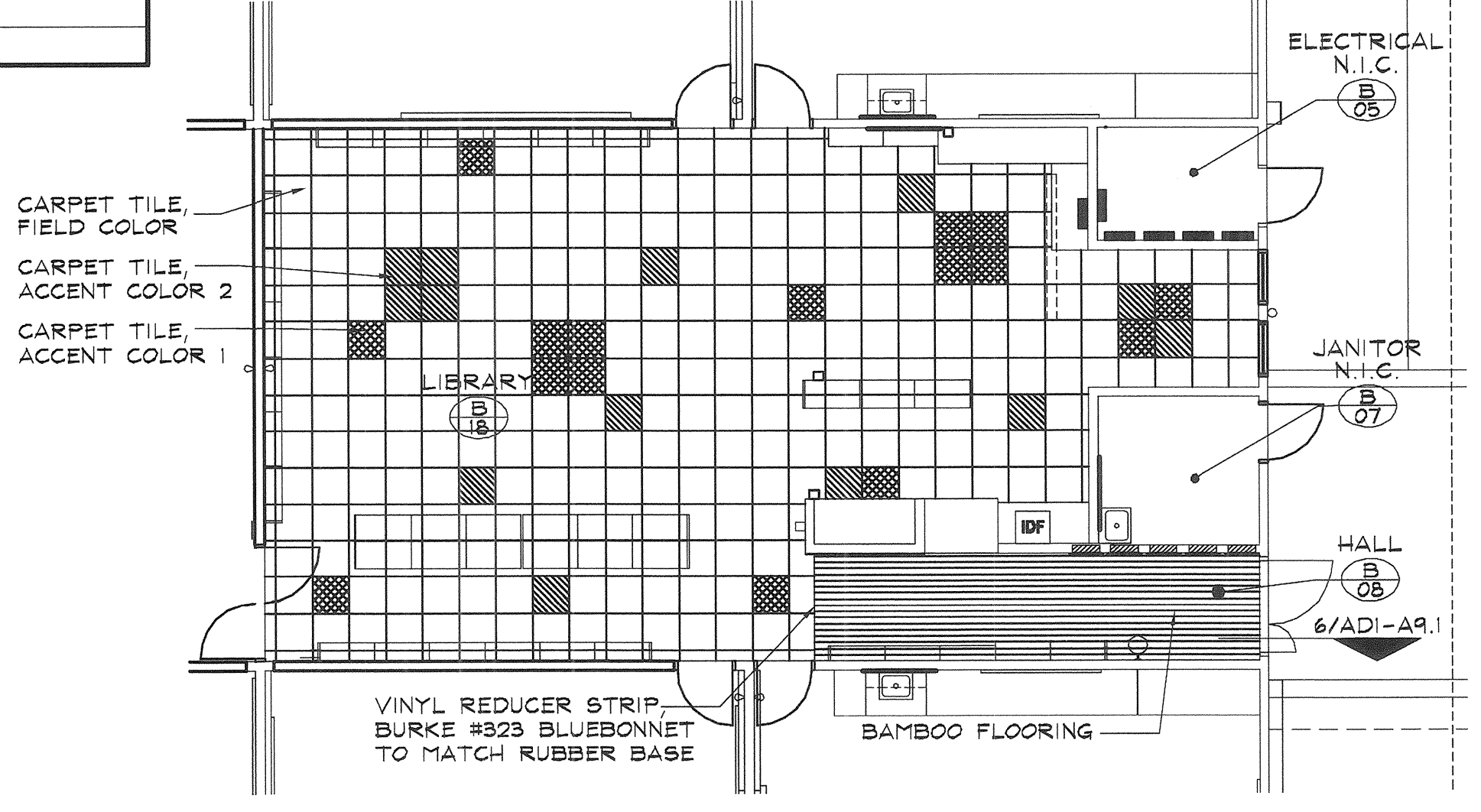
2 FLOOR PATTERN PLAN
SCALE: 1/8" = 1'-0"
ROOM B03, B04, B09, B10, B11, B12 SIM.

NOTE: CONTINUE TILE AND PATTERN INTO TOE KICKS AND UP TO THRESHOLDS.



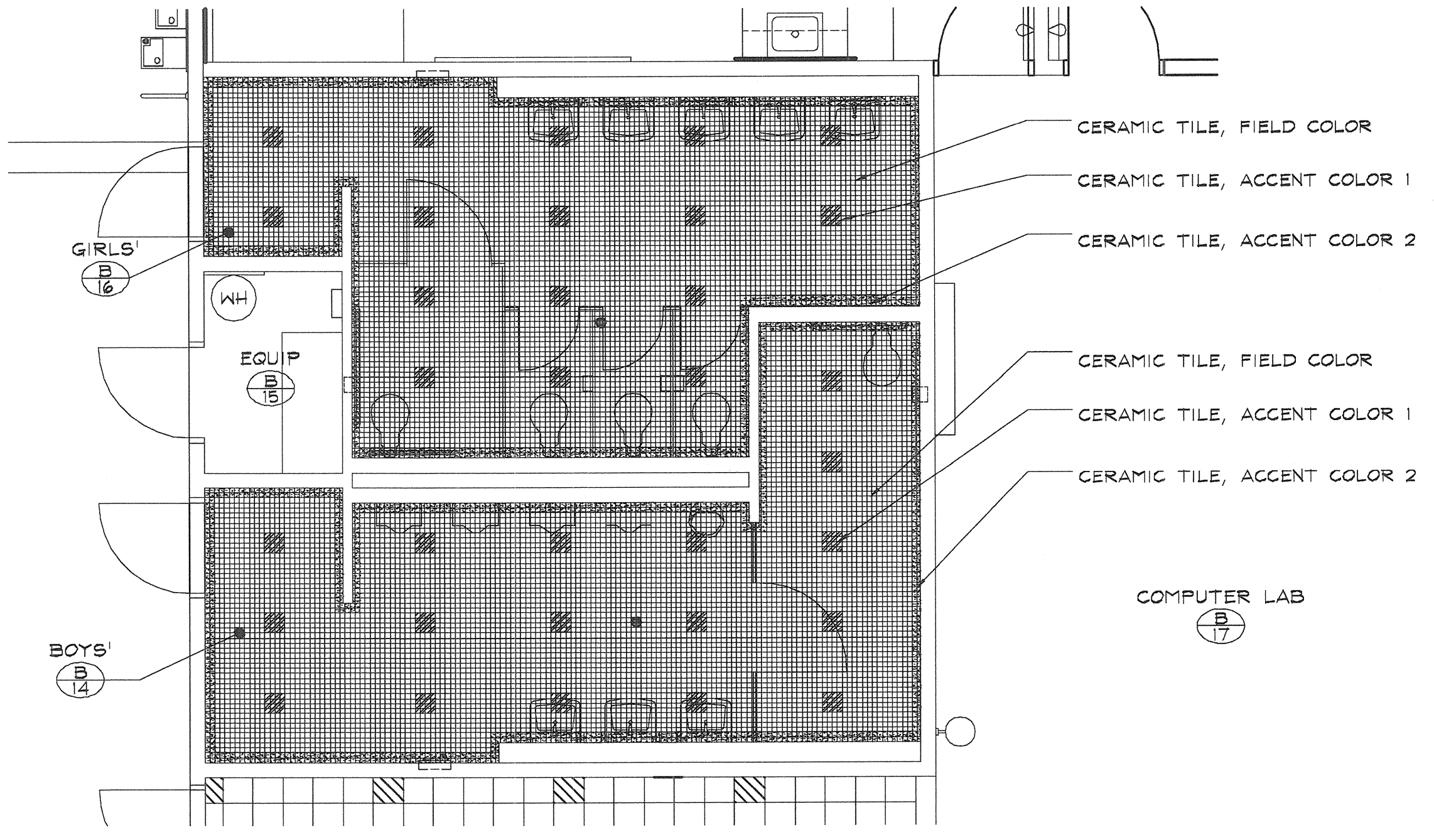
3 FLOOR PATTERN PLAN
SCALE: 1/8" = 1'-0"
HALL B13

NOTE: CONTINUE TILE AND PATTERN INTO TOE KICKS AND UP TO THRESHOLDS.



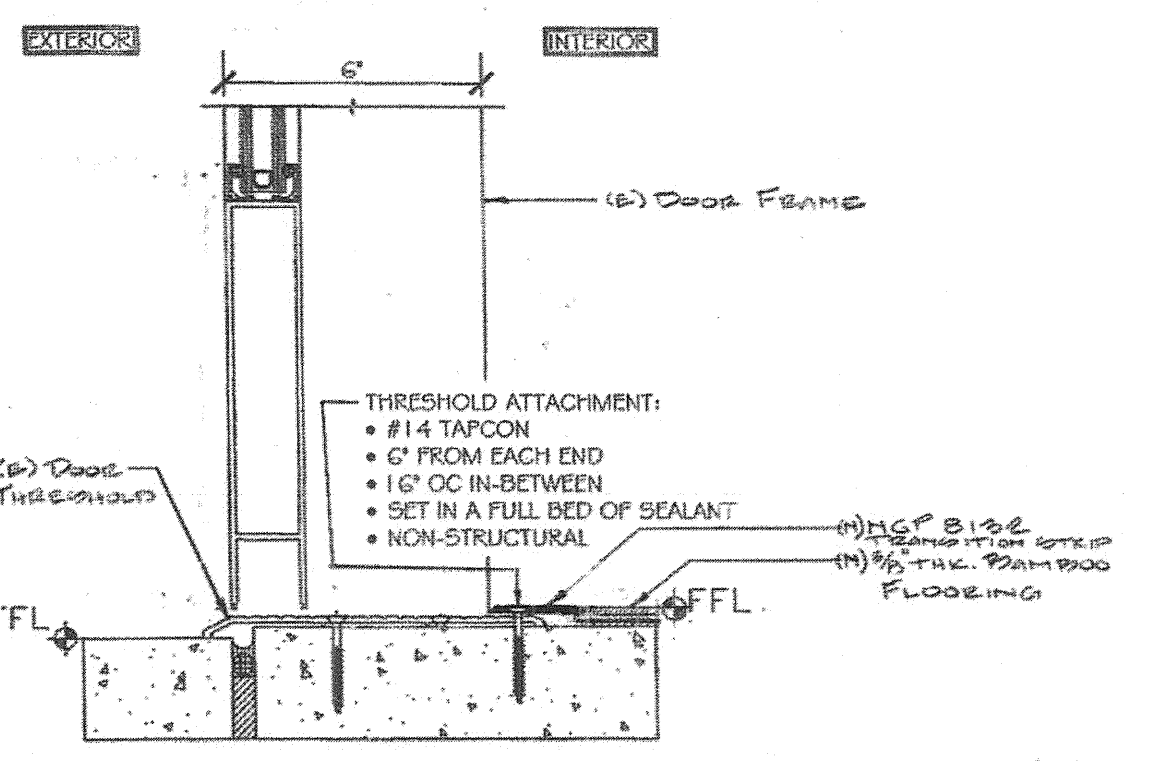
4 FLOOR PATTERN PLAN
SCALE: 1/8" = 1'-0"
LIBRARY B18

NOTE: CONTINUE TILE AND PATTERN INTO TOE KICKS AND UP TO THRESHOLDS.

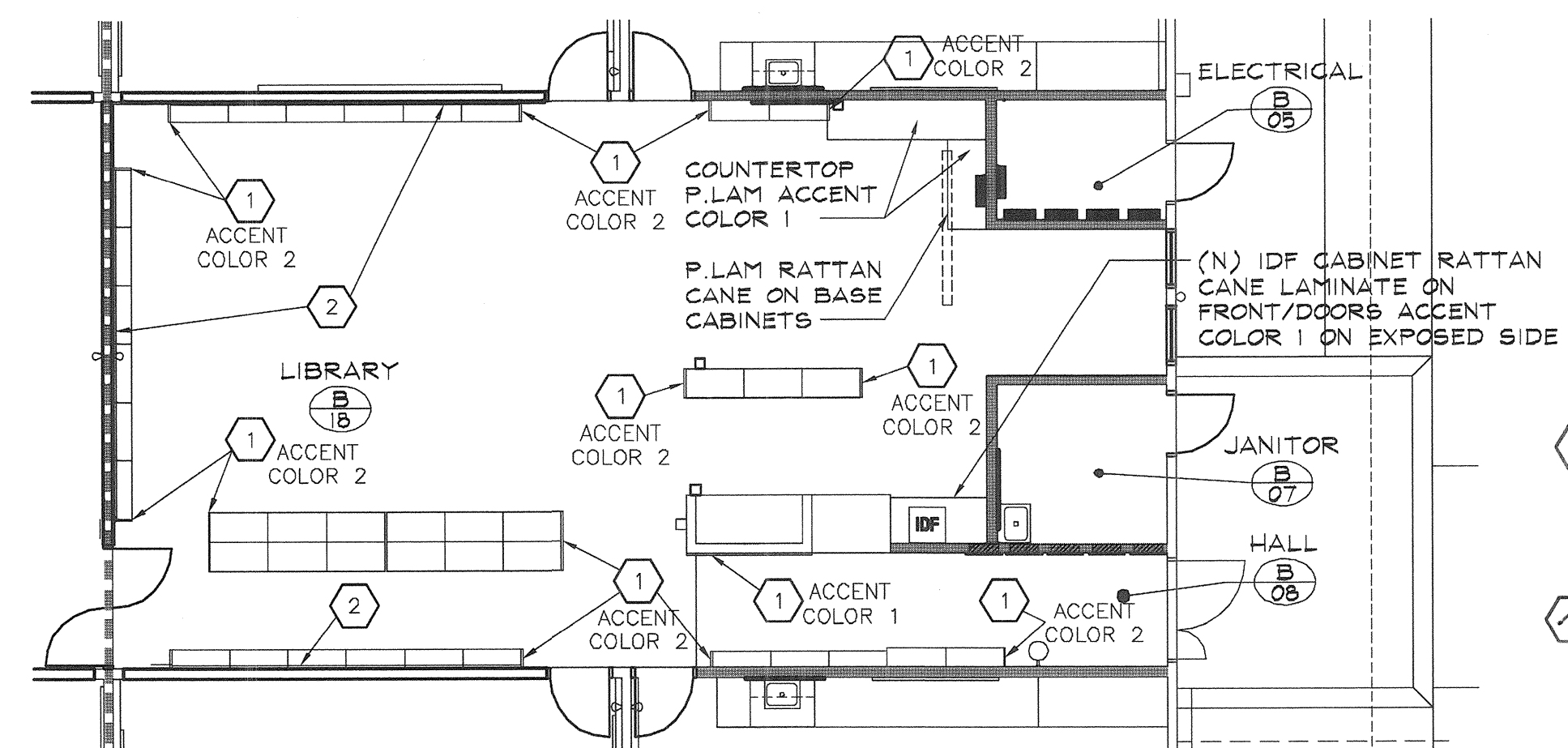


5 FLOOR PATTERN PLAN
SCALE: 1/4" = 1'-0"
BOYS' B14, GIRLS' B16

NOTE: CONTINUE TILE AND PATTERN INTO TOE KICKS AND UP TO THRESHOLDS.



6 THRESHOLD DETAIL
SCALE: NONE



7 FINISHES PLAN
SCALE: 1/8" = 1'-0"
LIBRARY B18

MATERIAL LEGEND

NOTE: NOT ALL MATERIALS USED ON THIS PROJECT

- A. CARPET
- B. VINYL COMPOSITION TILE
- C. CERAMIC TILE - FLOOR
- D. NOT USED
- E. CONCRETE - FLOOR
- F. BAMBOO FLOORING
- G. RUBBER BASE
- H. CERAMIC TILE - BASE
- J. VINYL COVERED PINBOARD
- K. MASONRY WALL
- L. CONCRETE - BASE
- M. EXISTING DEMOUNTABLE PARTITION
- N. VINYL WALL COVERING
- O. CERAMIC TILE - FULL HEIGHT WALL
- P. PLASTER/GYPSUM BOARD - WALLS
- Q. WOOD PANELING / PLYWOOD
- R. ACOUSTICAL TILE
- S. FIBER PANEL / ACOUSTICAL PINBOARD
- T. PLASTER/GYPSUM BOARD - CEILING
- U. ACOUSTICAL 12" X 12" TILE - CEILING
- V. ACOUSTICAL LAY-IN CEILING
- W. PAINT
- X. WOOD - FLOOR
- (E) EXISTING

INTERIOR FINISH SCHEDULE NOTES

1. INSTALL TWO-COLOR CHECKERBOARD 24"X24" PATTERN IN RESILIENT FLOORING
2. REFURBISH EXISTING CERAMIC TILE.
3. REFURBISH AND PAINT EXISTING SURFACE.
4. CERAMIC TILE REFER TO 1/A9.1
5. NEW SURFACE, PAINT.
6. EXISTING VINYL COVERING, APPLY PAINT.
7. INSTALL TWO-COLOR CHECKERBOARD 12" X 12" PATTERN IN RESILIENT FLOORING.
8. EXISTING CEILING, REPLACE DAMAGED AND SOILED TILE.
9. EXISTING WOOD CEILING, PATCH / REPAIR DAMAGED CEILING.
10. TWO COLOR CHECKER BOARD PATTERN IN 12" X 12" CERAMIC TILE. (24" X 24" CHECKER BOARD).
11. CLEAN EXISTING SURFACE.
12. REPAIR, BUFF, AND RE-SEAL EXISTING SURFACE.
13. CLEAN AND RE-SEAL EXISTING CONCRETE FLOOR AND BASE (WHERE OCCURS)
14. NO WORK
15. REFER TO FLOOR PLAN AND ELEVATIONS.
16. REFURBISH AND SEAL COAT EXISTING CONCRETE.
17. REMOVE EXISTING WALL COVERING AND SKIM COAT PLASTER SURFACE.
18. NO RUBBER BASE AT DEMOUNTABLE PARTITION.
19. EXISTING WALL COVERING, PATCH / REPAIR SOILED AND DAMAGED AREAS, MATCH WITH ADJACENT FINISH.

GENERAL INTERIOR NOTES

- G1. CONTRACTOR SHALL REPAIR AND PREPARE ALL EXISTING WALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. WALLS NOT SCHEDULED FOR ADDITIONAL CLADDING SHALL BE FINISHED TO MATCH ADJACENT SURFACES.
- G2. WALL SCHEDULED FOR ADDITIONAL CLADDING, SUCH AS CERAMIC TILE, SHALL BE PREPARED TO A SMOOTH AND LEVEL SUBSTRATE CONDITION. CLADDING INSTALLER SHALL REVIEW SURFACES AND ACCEPT EXISTING CONDITION PRIOR TO INSTALLATION OF SAME.
- G3. ALL CERAMIC TILE SHALL BE APPLIED OVER NEW VAPOR BARRIER & NEW WATER RESISTANT BACKER BOARDS. FURNISH AND INSTALL SEALED EDGE TO ADJACENT NON-TILE SURFACES.
- G4. EXISTING CONDITIONS THAT REQUIRE PREPARATION FOR NEW FINISHES SHALL BE REVIEWED BY THE CONTRACTOR AND SHALL BE INCLUDED IN THIS CONTRACT.
- G5. THE COEFFICIENT OF FRICTION FOR CERAMIC TILE DRY TO BE 0.8 TO 1.0 AND WET TO BE 0.7 TO 0.9.
- G6. REMOVE ALL EXISTING FULL WALL PANELING, WAINSCOTS, AND ATTENDANT TRIM WHERE NEW CLADDING SUCH AS CERAMIC TILE ARE SCHEDULED. REFER TO NOTE NO. G2 FOR PREPARATION OF SURFACES.
- G7. ALL INTERIOR FINISHES SHALL COMPLY WITH CBC CHAPTERS 7, 8, AND 25A.

ABBREVIATIONS

(E) EXT. EXISTING
VRS VARIES
RE REFER
(N) NEW

GENERAL INTERIOR NOTES

- G8. ALL EXISTING EXPOSED SURFACES THAT DO NOT RECEIVE A NEW FINISH ARE TO BE PAINTED, UNLESS NOTED OTHERWISE.
- G9. ROOMS THAT RECEIVE MULTIPLE FLOOR OR WALL FINISHES. REFER TO FLOOR PLANS, AND/OR ELEVATIONS FOR LOCATION OF SUCH FINISHES.
- G10. REFURBISH: TO MODERNIZE, RENOVATE, RESTORE, PATCH, AND/OR REPAIR TO LIKE NEW CONDITION INCLUDING PREPARATION FOR NEW SURFACE OR FINISH.
- G11. ALL MATERIALS LISTED ON THE INTERIOR FINISH SCHEDULE ARE NEW UNLESS OTHERWISE NOTED.
- G12. REMOVE ALL EXISTING WALL COVERING INCLUDING BUT NOT LIMITED TO VINYL WALL COVERING, WALL PAPER, CERAMIC TILE, WOOD PANELING, AND WALL CARPETING WHERE NEW FINISHES ARE SPECIFIED UNLESS NOTED OTHERWISE.
- G13. REMOVE ALL EXISTING FLOOR COVERING AND MASTIC INCLUDING BUT NOT LIMITED TO CARPET, CERAMIC TILE, VINYL COMPOSITION TILE, SHEET VINYL, AND WOOD WHERE NEW FINISHES ARE SPECIFIED, UNLESS NOTED OTHERWISE. NEW CARPETING MAY BE INSTALLED OVER EXISTING VINYL COMPOSITION (VCT), DAMAGED VCT TO BE PATCHED AND REPAIRED PRIOR TO INSTALLATION OF CARPET.

G14. ITEMS OR ROOMS LABELED "NO WORK" REFER TO FINISHES ONLY.
G15. AT EXISTING VINYL WALL COVERING THAT IS TO REMAIN, REPAIR TEARS, REATTACH LOOSE EDGES, PRIME AND PAINT.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL 03-113415

AC _____ FLS _____ SS _____

DATE: _____

DSA STAMP

PROJECT NO.: 234808 DATE: 01-07-13

INTERIOR FINISH SCHEDULES AND DETAILS

13-02R

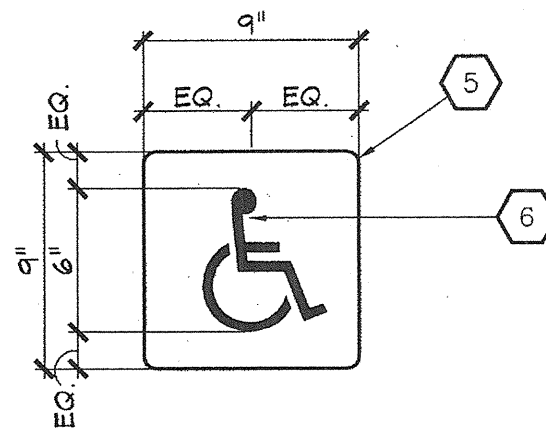
AD1-A9.1

Oak Park Unified School District
Brookside Elementary School
Building B/200 (Bid and CA)

KPI Architects Inc.
650 East Parkridge Avenue, Suite 105
Corona, California 92718-1092
Phone: (951) 366-6381 Fax: (951) 493-2059

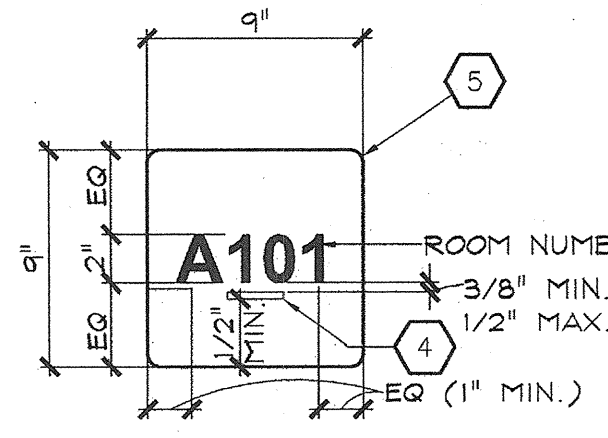
barnhart, inc.
A HEERY INTERNATIONAL COMPANY

P:\Oak Park Unified School District\Brookside Elementary School Building B Bid-CA\Drawings\234808-AD1-A9.1.dwg, 2/8/2013 12:18:57 PM, mccooper

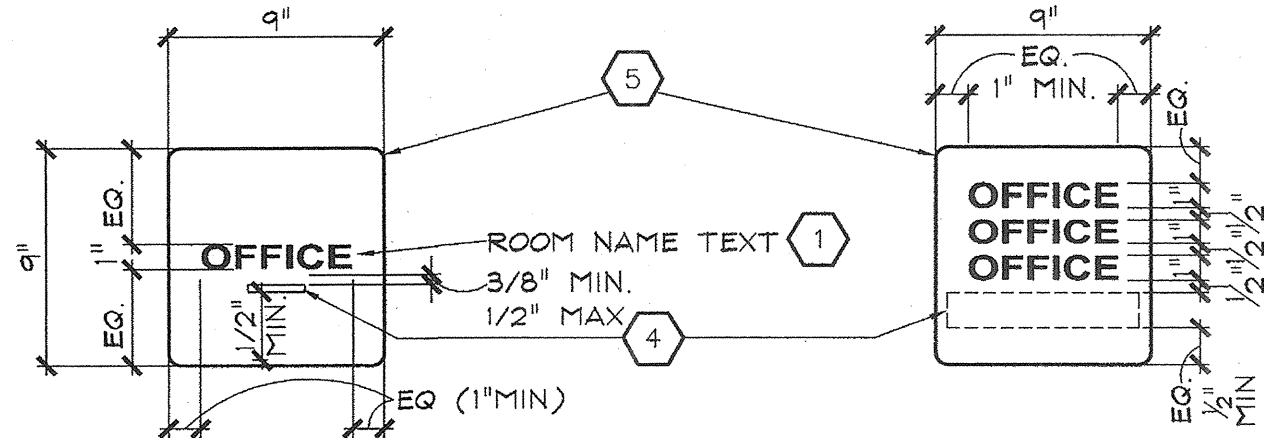


1 ISA SIGN (SINGLE)

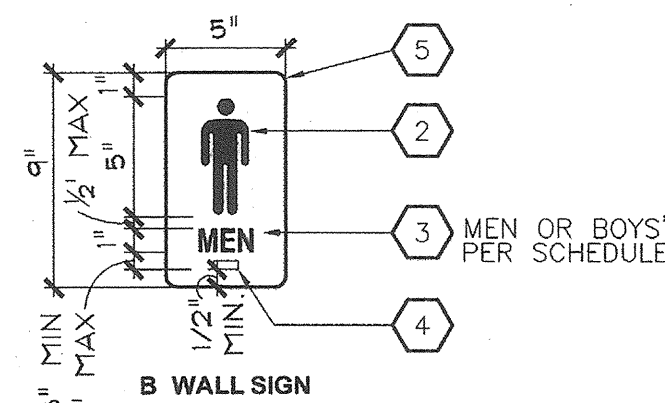
2 ISA SIGN (ADJACENT TO ANOTHER SIGN)



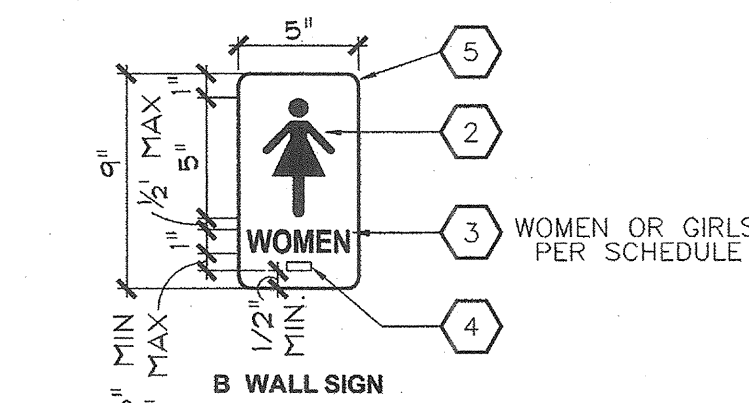
3 ROOM NUMBER



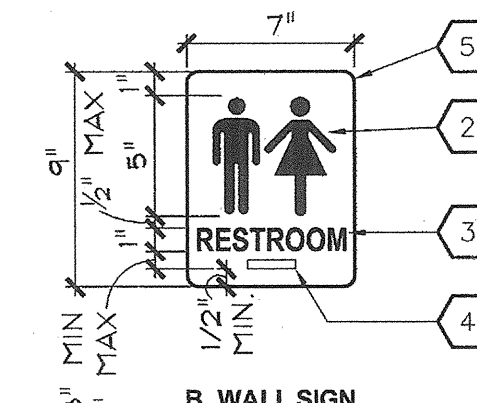
4 ROOM NAME IDENTIFICATION



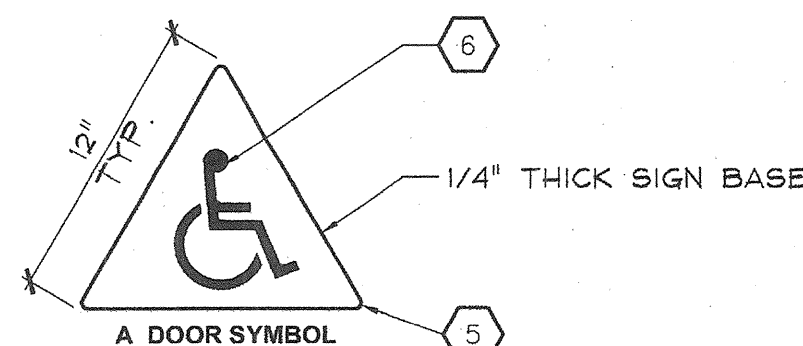
5 MALE TOILET



6 FEMALE TOILET

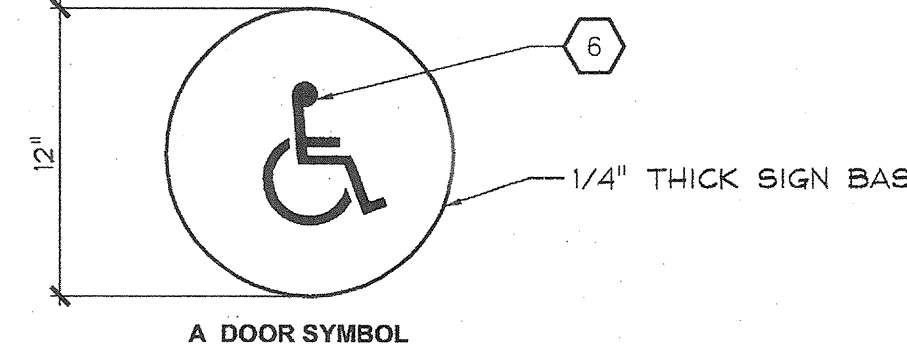


7 UNISEX TOILET



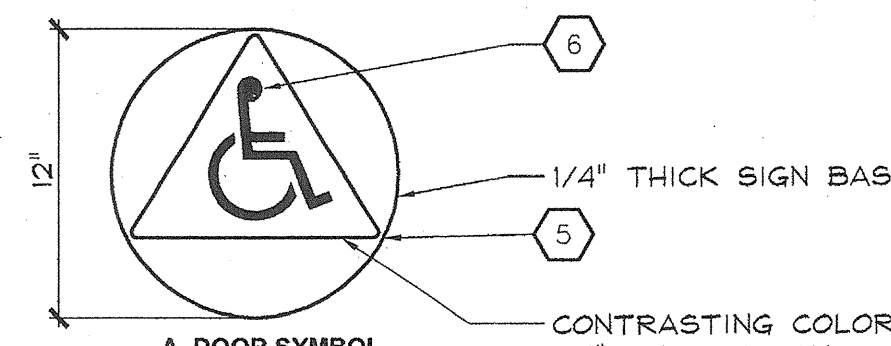
8 TACTILE EXIT SIGNAGE

REFER TO SIGNAGE PLAN(S) SCHEDULES FOR SIGN LOCATIONS



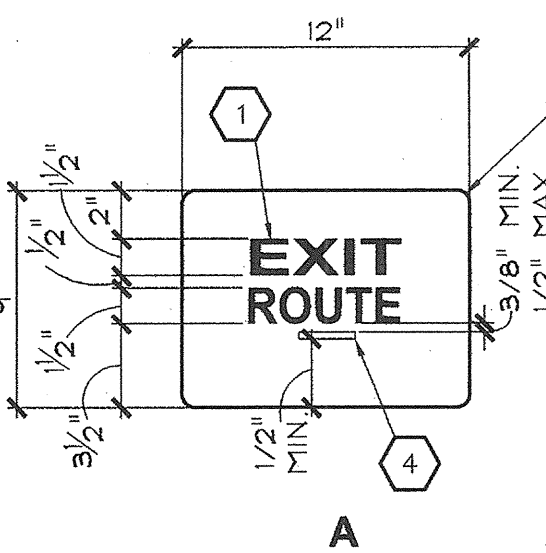
9 ACCESSIBLE COMPONENT DIRECTIONAL SIGN

REFER TO SIGNAGE PLAN(S) FOR SIGN LOCATIONS

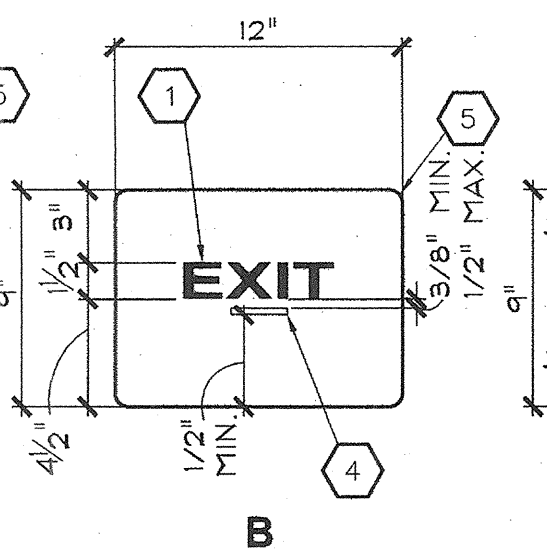


10 OCCUPANT LOAD

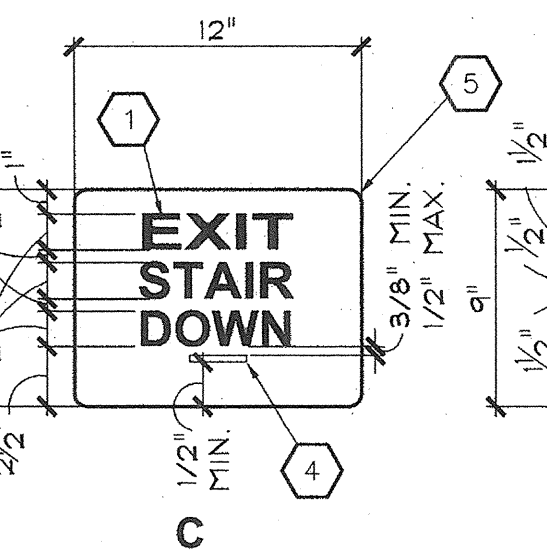
REFER TO SIGNAGE PLANS FOR SIGN LOCATIONS



A

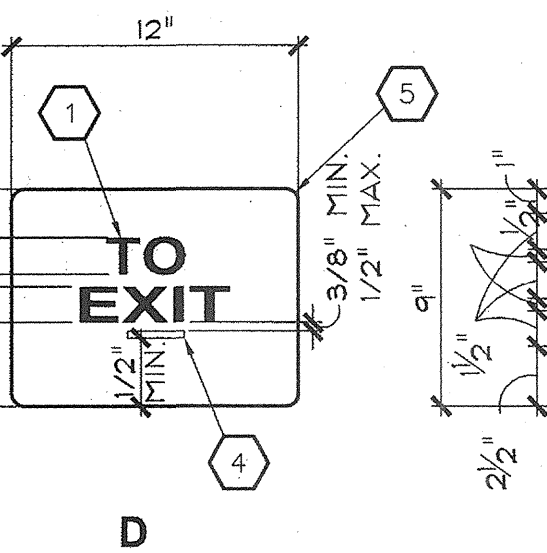


B



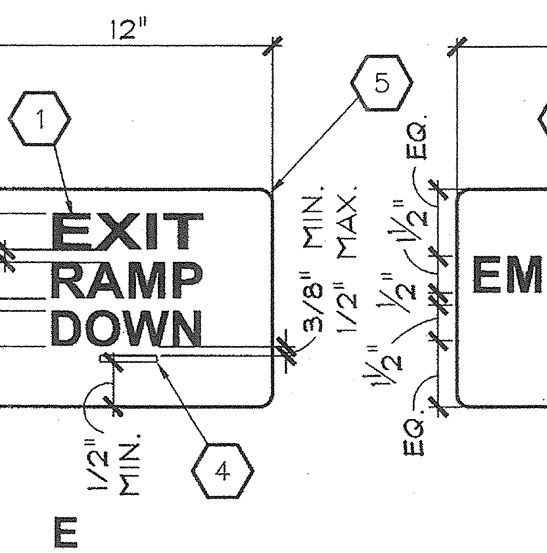
C

C1 TEXT: EXIT STAIR UP

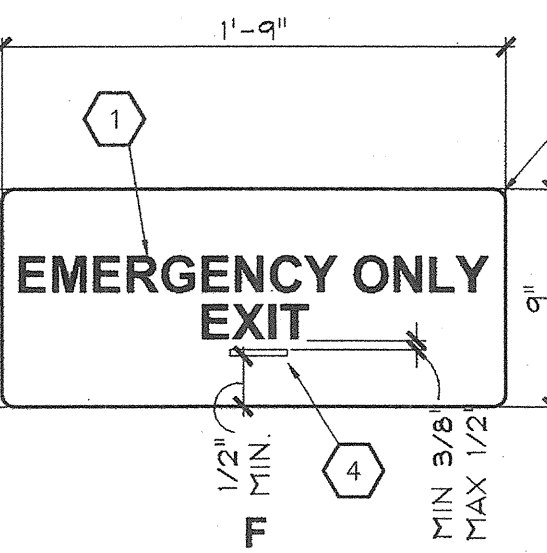


D

E1 TEXT: EXIT RAMP UP



E



F

SIGN TEXT C: ACCESSIBLE RAMP
SIGN TEXT D: ACCESSIBLE ELEVATOR
SIGN TEXT B: ACCESSIBLE ENTRANCE
SIGN TEXT A: ACCESSIBLE TOILET

SIGN TEXT
SEE NOTES BELOW FOR SIGN TEXT
TEXT TO FIT INSIDE DASHED AREA

VERIFY ARROW
DIRECTION TO
ACCESSIBLE
COMPONENT IN
PATH OF TRAVEL
ROUTE, ARROW
AND ISA TO FACE
SAME DIRECTION

REFER TO EGRESS
REQUIREMENTS FOR
EXACT NUMBER

ILLUMINATED PHOTO
LUMINESCENT OR
SELF LUMINOUS SIGN

TEXT HEIGHT: 6" MIN.
TEXT STROKE WEIGHT: 3/4" MIN.

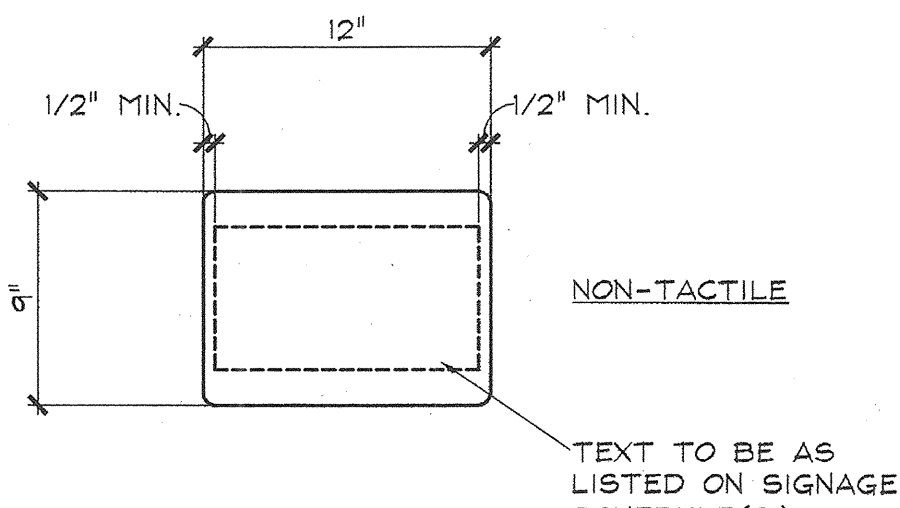
11 FLOOR LEVEL EXIT SIGN

REFER TO SIGNAGE SCHEDULES

12 NOT USED

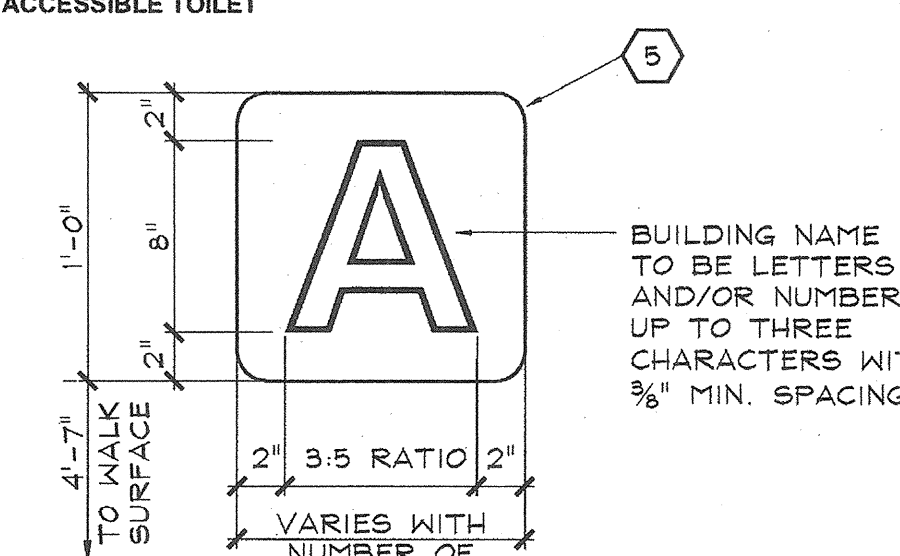
13 NOT USED

14 NOT USED



15 CONVENIENCE SIGN

REFER TO SIGNAGE SCHEDULES FOR SIGN LOCATIONS



16 BUILDING NAME

1 SIGNAGE TYPES

SCALE: 1 1/2" = 1'-0" UNLESS OTHERWISE NOTED

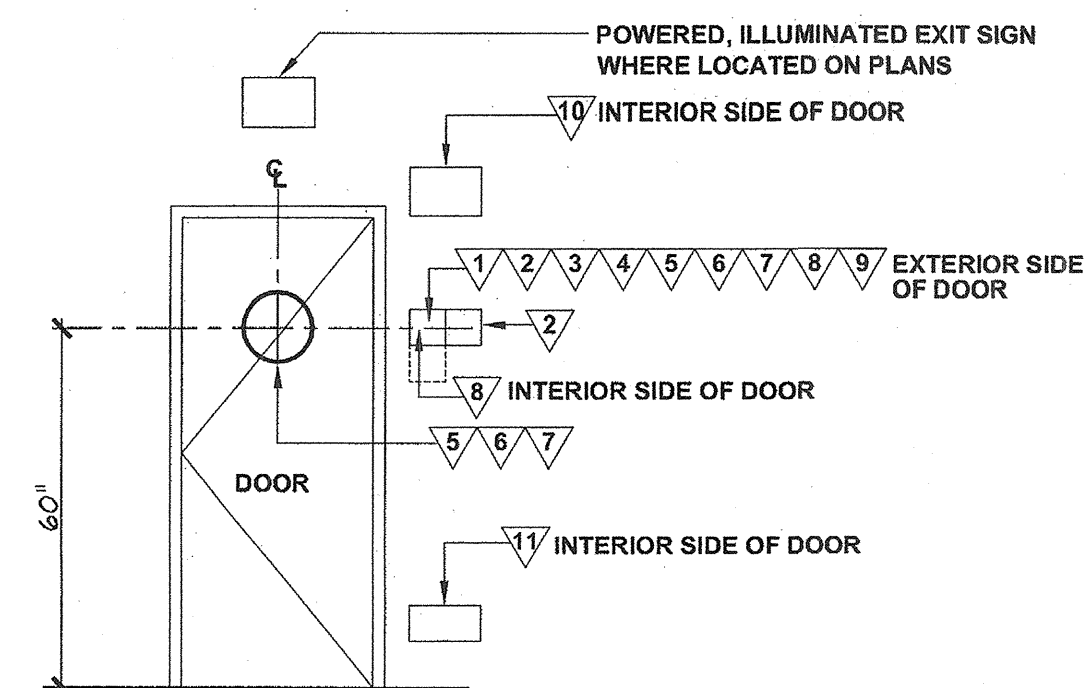
NOTE: NOT ALL SIGNS SHOWN MAY BE USED. REFER TO SIGNAGE SCHEDULES AND SIGNAGE PLANS FOR SIGNAGE LOCATIONS AND REQUIREMENTS, UNLESS OTHERWISE NOTED.

- KEYNOTES:** NOTE: NOT ALL KEYNOTES MAY BE USED ON THIS SHEET.
1. RAISED TEXT OR NUMBER, 5/8 TO 2 INCH HIGH & RAISED 1/32 INCH MINIMUM
 2. RAISED PICTORIAL SYMBOL, 6" HIGH MIN & RAISED 1/32 INCH MINIMUM
 3. RAISED TEXT, RAISED 1/32 INCH MINIMUM. TEXT TO MATCH FLOOR PLAN, U.O.N.
 4. CALIFORNIA BRAILLE, GRADE 2, RE: A10.0b FOR BRAILLE REQUIREMENTS
 5. RADIUS CORNER TYPICAL AND EASED EDGES, C.B.C 11195.8
 6. 6" HIGH INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) SYMBOL TO BE WHITE, BACKGROUND TO BE COLOR #15090 IN FEDERAL STANDARD 595B, ISA TO BE NON-TACTILE

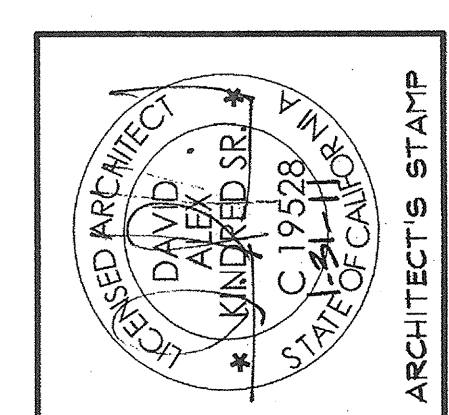
GENERAL NOTES

1. REFER TO A10.0b FOR SIGN CONSTRUCTION REQUIREMENTS
2. REFER TO A10.0b FOR TEXT CHARACTERS REQUIREMENTS
3. REFER TO A10.0b FOR PICTORIAL SYMBOL REQUIREMENTS
4. REFER TO A10.0b FOR CALIFORNIA BRAILLE REQUIREMENTS
5. REFER TO A10.0b FOR SIGNAGE MOUNTING REQUIREMENTS
6. ROOM NUMBERS & TEXT TO BE PROVIDED ON SIGNAGE PLAN(S)

SIGNAGE LOCATIONS



NOT USED
SCALE: NONE



ARCHITECT'S STAMP

OAK PARK UNIFIED
SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
MODERNIZATION



KPI Architects Inc.
650 East Parkridge Avenue, Suite 105
Corona, California 92729-1092
Phone: (800) 366-6381 Fax: (877) 493-2059

barnhart, inc.
A HEERY INTERNATIONAL COMPANY

PROJECT NO.: 234800 DATE: 09-02-09

BUILDING SIGNAGE DETAILS

13-01R

A10.0a

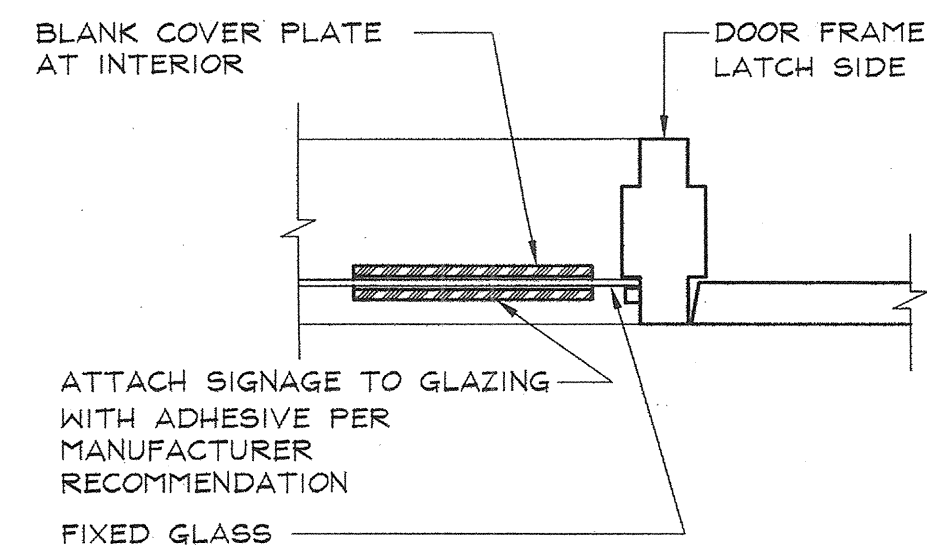
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APPL 03-113415

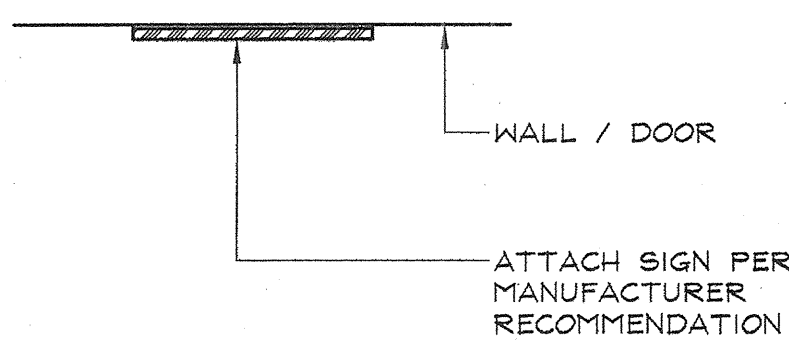
AC *A* FL *S* SS *ll*

DATE: 10/16/10

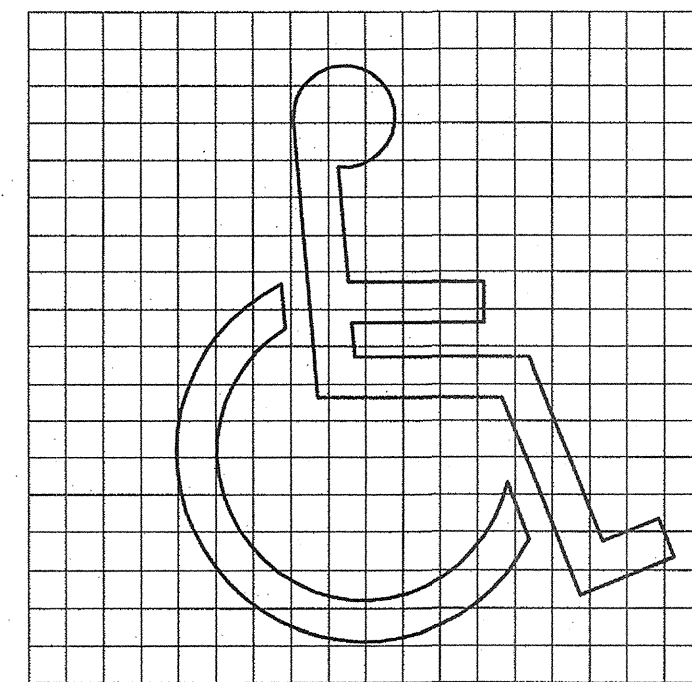
DSA STAMP



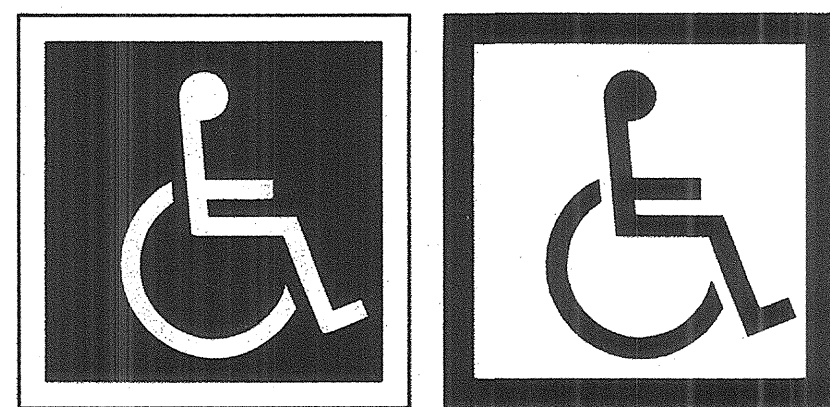
1 GLASS MOUNTED SIGNS
SCALE: 1 1/2" = 1'-0"



2 WALL OR DOOR MOUNTED SIGNS
SCALE: 1 1/2" = 1'-0"



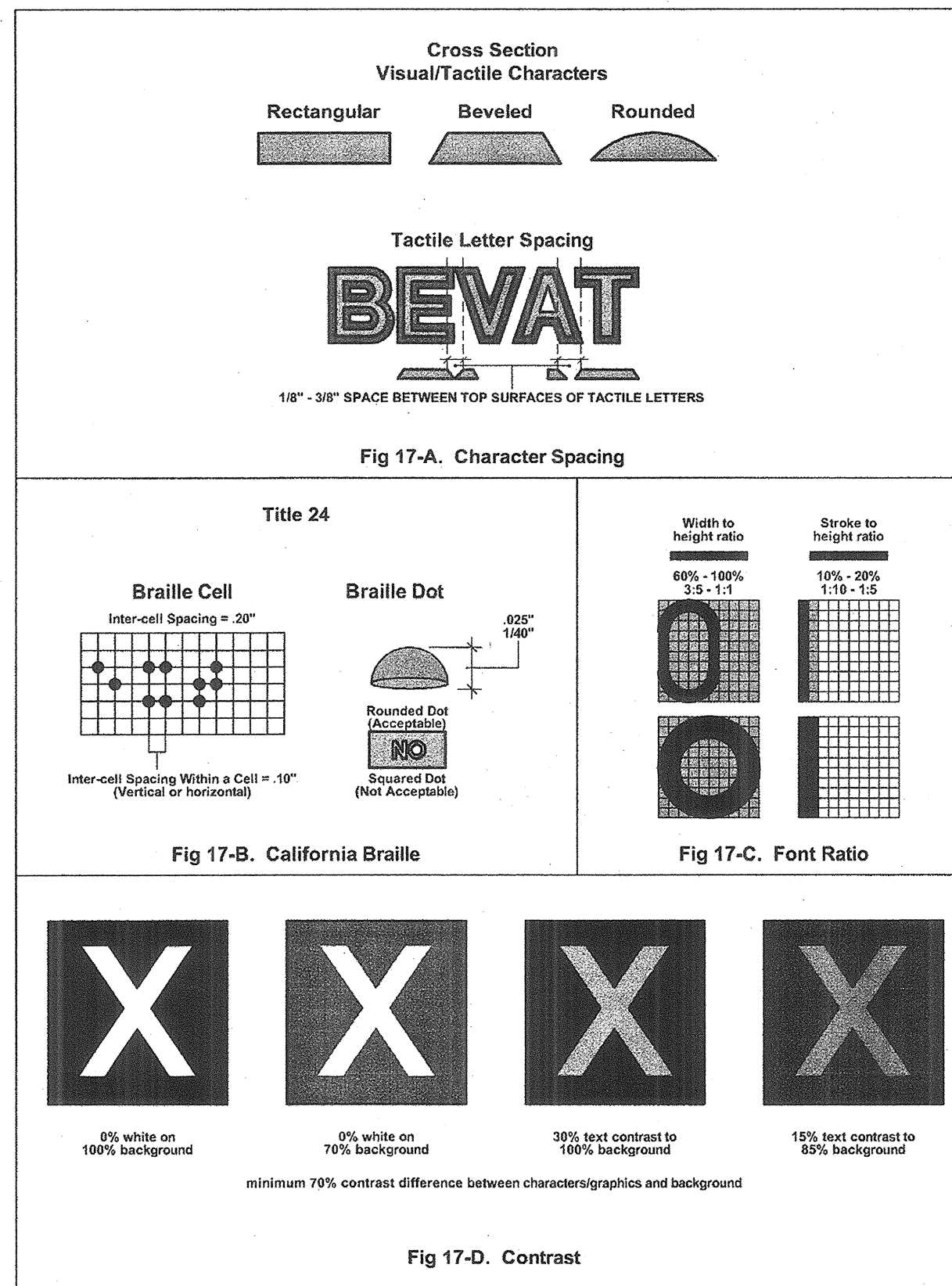
(a) SYMBOL PROPORTIONS



(b) DISPLAY CONDITIONS

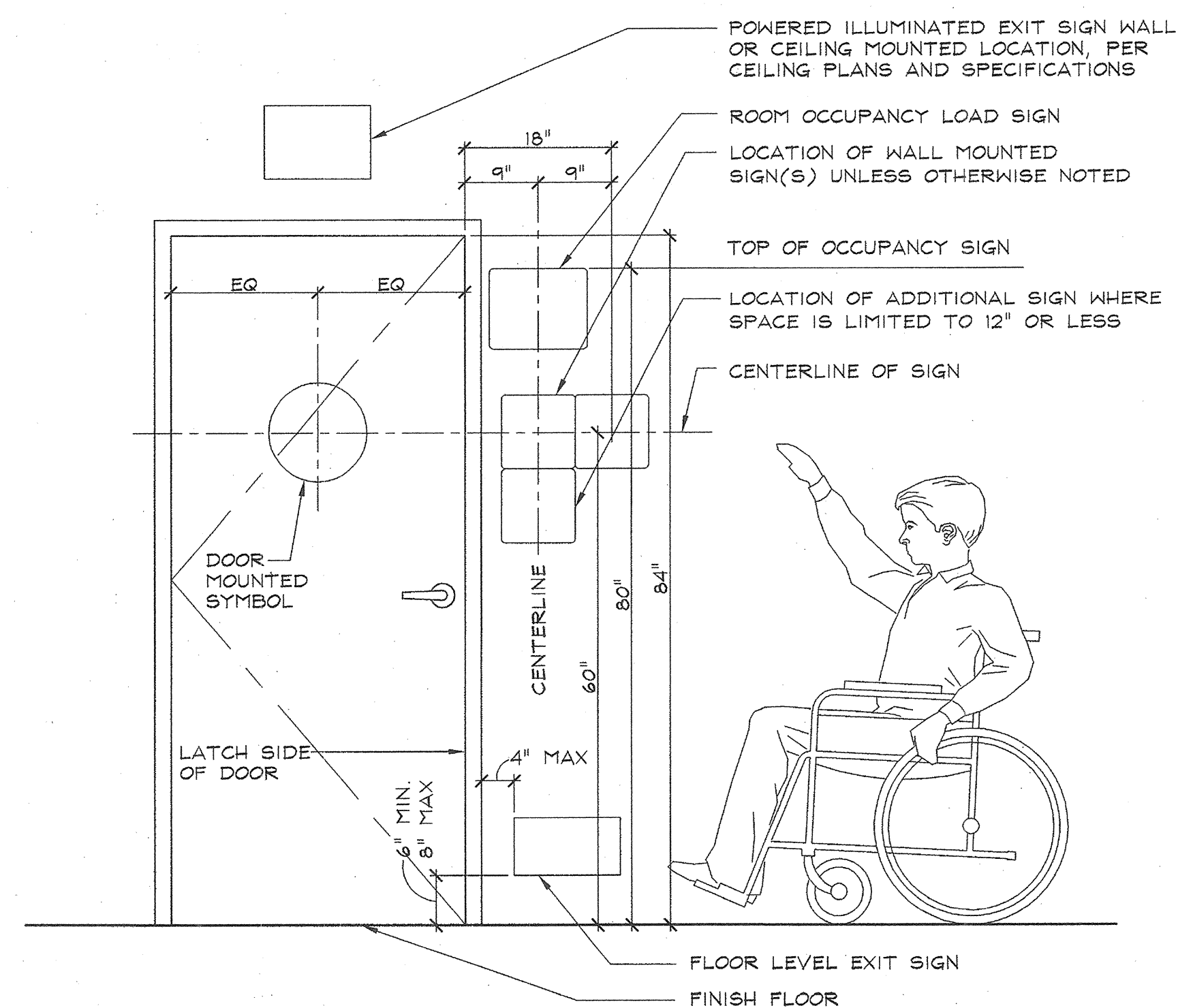
THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

3 ISA SIGN REQUIREMENTS
SCALE: N.T.S.



NOTE: THESE FIGURES ARE FROM DSA UNIVERSAL DESIGN CHECKLIST PAGE 17-8 AND PER CBC 1117B.5.6

4 TEXT, BRAILLE AND SIGN CONTRAST REQUIREMENTS
SCALE: N.T.S.



5 SIGNAGE MOUNTING HEIGHTS
SCALE: N.T.S.

GENERAL SIGNAGE REQUIREMENTS

CODE REQUIREMENTS:

1. FLOOR LEVEL EXIT SIGNS: PER CBC 1007.7 AND 1011.6
2. GENERAL REQUIREMENTS: PER CBC 1117B.5.1
3. SYMBOLS OF ACCESSIBILITY: PER CBC 1117B.5.8
4. TACTILE EXIT SIGNS: PER CBC 1011.3
5. ASSISTIVE LISTENING SYSTEM SIGNAGE: PER CBC 1104B.2

SIGN CONSTRUCTION AND SIZE

1. SIGN CONSTRUCTION: PLASTIC WITH MILLED TEXT, SYMBOLS AND BRAILLE. CHEMICALLY WELDED OR ADHESIVE APPLIED TEXT, SYMBOLS AND/OR BRAILLE IS NOT ACCEPTABLE.
2. FINISH AND CONTRAST: TEXT, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. TEXT AND SYMBOLS SHALL HAVE CONTRAST WITH THEIR BACKGROUND. REFER TO FIGURE 17-D, ON 4/A10.0b.
3. SIZES OF SIGNS SHALL BE AS DETAILED PER DRAWING A10.0a.

TEXT CHARACTERS

1. TYPE: UPPER CASE, SANS SERIF, RAISED 1/32" INCH MINIMUM FONT PROPORTIONS: WIDTH TO HEIGHT RATIO BETWEEN 3:5 & 1:1 AND A STROKE WIDTH TO HEIGHT RATIO OF BETWEEN 1:5 & 1:10. REFER TO FIGURE 17-C, ON 4/A10.0b.
2. HEIGHT: 5/8 INCH MINIMUM TO 2 INCH MAXIMUM
3. CHARACTER SPACING: REFER TO FIGURE 17-A, ON 4/A10.0b.

PICTORIAL SYMBOLS

1. TYPE: RAISED 1/32" INCH MINIMUM
2. HEIGHT: 6 INCHES MINIMUM

CALIFORNIA BRAILLE REQUIREMENTS

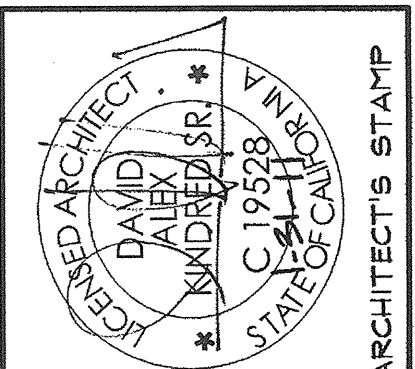
CONTRACTED CALIFORNIA GRADE 2 BRAILLE, RAISED 1/40 INCH ABOVE THE BACKGROUND, ROUNDED DOTS SHALL BE 1/10-INCH ON CENTERS IN EACH CELL WITH 2/10-INCH SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL WITH ROUNDED OR DOME TOPS, REFER TO FIGURE 17-B, ON 4/A10.0b.

PROJECT NO.: 234800 DATE: 09-02-09

BUILDING SIGNAGE REQUIREMENTS

13-01R
A10.0b

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL 03-113415
AC: [Signature] FL: [Signature] SS: [Signature]
DATE: 10/20/10
DSA STAMP



ARCHITECT'S STAMP

OAK PARK UNIFIED SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL MODERNIZATION
UNIFIED SCHOOL DISTRICT

KPI Architects Inc.
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barnhart, inc.
A HEERY INTERNATIONAL COMPANY

GENERAL NOTES

- COORDINATE LOCATION OF DUCTWORK AND VOLUME DAMPERS WITH CEILING ACCESS PANELS AS SHOWN ON ARCHITECTURAL PLANS. ALL VOLUME DAMPERS MUST BE ACCESSIBLE FROM CEILING ACCESS PANELS.
- THE CONTRACTOR SHALL COOPERATE WITH ALL TRADES IN PROVIDING INFORMATION AS TO OPENINGS REQUIRED IN WALLS, ROOF FOR ALL PIPING, DUCTWORK AND EQUIPMENT. PACK AND GROUT OPENINGS.
- FABRIC OVER INSULATION SHALL BE GIVEN ONE COAT OF POLYVINYL ACETATE SEALER.
- ALL SHOP PRIMED SURFACES SHALL BE CAREFULLY INSPECTED AFTER INSTALLATION; AND ALL ABRASIONS, BARE SPOTS, RUSTY AREAS, AND SIMILAR DEFECTIVE WORK SHALL BE CLEANED & PAINTED.
- UPON COMPLETION AND BEFORE FINAL ACCEPTANCE OF THE WORK, ALL DEBRIS, TEMPORARY PROTECTIVE COVERINGS, RUBBISH, LEFTOVER MATERIALS, TOOLS AND EQUIP. SHALL BE REMOVED FROM THE SITE.
- FINALLY, THE ENTIRE INSTALLATION SHALL BE LEFT IN A NEAT, CLEAN AND USABLE CONDITION.
- WHERE FIREPROOFING HAS BEEN DAMAGED BECAUSE OF WORK OF THIS CONTRACTOR, SUCH DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ARCHITECT.
- LOW PRESSURE DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE SMACNA STANDARD. ALL JOINTS SHALL BE SEALED WITH DURO-DYNE S-2 DUCT SEALER WITH CALIFORNIA STATE FIRE MARSHAL LISTING NO. 8535-113:11.
- ROUND DUCTS SHALL BE SPIRAL TYPE WITH MATCHING FITTINGS MANUFACTURED BY "UNITED SHEET METAL" AND SHEET GAUGES AS PER SMACNA.
- CHANGE IN DIRECTION AND SIZE: ELBOWS WITH THROAT RADIUS 75 PERCENT OF THE DIMENSION OF THE ADJACENT DUCT AS MEASURED IN THE SAME DIRECTION, EXCEPT WHERE OTHERWISE DETAILED. DUCT TURNS USED WHERE INDICATED. IN DUCTS 20 INCHES WIDE OR LESS, USE BARBER-COLMAN DUCT TURNS OR AS ACCEPTED. TRANSITIONS WITH LENGTHS NOT SHORTER
- JOINTS: ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS SHALL BE SEALED AIRTIGHT FOR THE PURPOSE INTENDED. SEAL WITH DURO-DYNE S-2 DUCT SEALER WITH CALIFORNIA STATE FIRE MARSHAL LISTING NO. 8535-113:11.
- ALL SUPPLY AND RETURN DUCTWORK IN ATTIC SHALL BE INSULATED WITH 1-1/2 INCH THICK FIBERGLASS BLANKET, JOINTS LAPPED NOT LESS THAN 1-1/2 INCHES AND INSULATION SECURED WITH #16 SOFT GALVANIZED IRON WIRE SPACED 12 INCHES ON CENTERS. FLAME SPREAD NOT OVER 25. FUEL CONTRIBUTED NOT OVER 50. SMOKE DEVELOPED NOT OVER 50. INSULATION SHALL BE AS MANUFACTURED BY MANVILLE OR EQUAL. THE FIRST 10" OF THE SUPPLY AIR AND RETURN AIR DUCTS SHALL HAVE 1" LINING FOR SOUND SUPPRESSION.
- LOW PRESSURE FLEXIBLE DUCT TO REGISTER BOXES SHALL BE BY "THERMAFLEX" OR APPROVED EQUAL. DUCT SHALL BE UL-181 CLASS 1. AIR DUCT MATERIAL SHALL BE LISTED AND LABELED WITH FLAME AND SMOKE RATING.
- LOW PRESSURE FLEXIBLE DUCTS SHALL CONSIST OF AN EXTERIOR REINFORCED LAMINATED VAPOR BARRIER, 1-1/2 INCH THICK FIBER GLASS INSULATION WITH INSULATED THERMAL RESISTANCE OF 4.2, ENCAPSULATED SPRING STEEL WIRE HELIX AND IMPERVIOUS, SMOOTH, NON-PERFORATED INTERIOR VINYL LINER. INDIVIDUAL LENGTHS OF FLEXIBLE DUCTS SHALL CONTAIN FACTORY FABRICATED STEEL CONNECTION COLLARS.
- FLEXIBLE DUCTS SHALL BE SUPPORTED AT OR NEAR MID-LENGTH WITH TWO INCH WIDE 28 GAUGE STEEL HANGER COLLAR ATTACHED TO THE STRUCTURE WITH AN APPROVED DUCT HANGER. INSTALLATION SHALL MINIMIZE SHARP RADIUS TURNS OR OFFSETS. MAX. LENGTH OF SEVEN FEET CONNECTING TO TERMINAL OUTLETS.
- VOLUME DAMPERS: INSTALL WHERE SHOWN AND AT THE BRANCH TAKE OFF CONNECTION EVEN THOUGH SUCH BALANCING DAMPERS MAY NOT BE SHOWN ON DRAWINGS. MANUALLY OPERATED OPPOSED BLADE DAMPERS WITH INTERLOCKING EDGES, FABRICATED OF 18 GAUGE STEEL AND EQUIPPED WITH LOCKING QUADRANTS. DURO-DYNE SRC-380 DAMPER REGULATORS SHALL BE INSTALLED ON DAMPERS ON WRAPPED DUCT.
- REGISTER BOXES: SHEET METAL REGISTER BOXES SHALL BE PROVIDED FOR ALL CEILING DIFFUSERS AND REGISTERS WITH ROUND DUCT CONNECTIONS.
- DIFFUSERS IN T-BAR CEILING SHALL BE OF THE MODULAR REMOVABLE CORE 24X24 INCH PERFORATED FACE PANEL TYPE WITH ADJUSTABLE VOLUME DAMPERS. DIFFUSERS SHALL BE METAL - AIRE SERIES 9000-6P. ALL ALUMINUM CONSTRUCTION OR EQUAL IN ANEMOSTAT. FINISH TO BE AS PER ARCHITECT'S INSTRUCTIONS.
- RETURN AND EXHAUST REGISTERS IN T-BAR CEILING SHALL BE OF METAL-AIRE MODEL CC50TB. ALL ALUMINUM CONSTRUCTION WITH KEY OPERATED OPPOSED BLADE VOLUME CONTROL DAMPERS. REGISTERS SHALL BE PROVIDED WITH 24X24 INCH PERFORATED FACE PLATE AND SHALL BE AS SPECIFIED ABOVE, OR APPROVED EQUAL IN ANEMOSTAT. FINISH TO BE AS PER ARCHITECT'S INSTRUCTIONS.
- INSULATION:
 - ALL MATERIALS MAKING UP DUCT INSULATION, LINING INCLUDING ADHESIVES AND SEALERS, SHALL HAVE A UL FIRE HAZARD CLASSIFICATION WITH FLAME SPREAD OF NOT MORE THAN 25, FUEL CONTRIBUTED NOT MORE THAN 50, AND SMOKE-DEVELOPED NOT MORE THAN 50.
 - PRODUCTS: MANUFACTURER SHALL BE OWENS-CORNING, MANVILLE OR CERTAINTED.
- AIR BALANCING:
 - AFTER BALANCING, CONTRACTOR SHALL DEMONSTRATE TO ARCHITECT OR HIS MECHANICAL ENGINEER THAT THE SYSTEM IS IN BALANCE.
 - ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE ADJUSTED TO MINIMIZE DRAFTS IN ALL AREAS.

APPLICABLE CODES

BUILDING OCCUPANCY CLASSIFICATION: GROUP E
 THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:
 2007 BUILDING STANDARD ADMINISTRATIVE CODE PART 1, TITLE 24 C.C.R.
 2007 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.;
 2007 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.;
 2007 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.;
 2007 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.;
 2008 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.;
 2007 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.;
 2005 CA. REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.;
 2001 TITLE 19, C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

LEGEND

	NEW SQUARE OR RECTANGULAR DUCT
	NEW ROUND DUCT
	EXISTING DUCT OR EQUIPMENT TO REMAIN
	NEW FLEXIBLE ROUND DUCT
	DUCT SLOPE DIRECTION
	DUCT UP OR DOWN
	EXISTING DUCT OR EQUIPMENT TO BE REMOVED
	RADIUS ELBOW (* FIG. 2-2)
	RECTANGULAR/SQUARE DUCT THROAT ELBOW WITH VANES (* FIG. 2-2)
	SQUARE 45 DEGREE ENTRY BRANCH CONNECTION (* FIG. 2-8)
	ROUND DUCT WYE FITTING (* FIG. 3-5)
	RECTANGULAR DUCT PARALLEL FLOW BRANCH (* FIG. 2-7)
	THROAT SIZE ON RECTANGULAR DUCT SPLIT
	DUCT TAKE-OFF FROM BOTTOM
	DUCT TAKE-OFF FROM TOP
	F.D. NEW FIRE DAMPER
	FD-SO NEW FIRE DAMPER/SMOKE DAMPER
	M.V.D. MANUAL VOLUME DAMPER
	NEW MOTORIZED DAMPER
	NEW BAROMETRIC DAMPER
	C.R. CEILING REGISTER (RETURN OR OUTSIDE AIR)
	C.D. CEILING DIFFUSER (SUPPLY)
	C.R. CEILING REGISTER (EXHAUST AIR)
	SUPPLY AIR DUCT SECTION
	RETURN OR OUTSIDE AIR DUCT SECTION
	EXHAUST AIR DUCT SECTION
	SUPPLY AIR DUCT UP THRU FLOOR OR ROOF
	RETURN OR OUTSIDE AIR DUCT UP THRU FLOOR OR ROOF
	EXHAUST AIR DUCT UP THRU FLOOR OR ROOF
	T*STAT. THERMOSTAT WITH ZONE NUMBER MOUNTED AT 48" AFF WITH 30"x48" CLEAR FLOOR SPACE FOR ACCESS
	TEMP. TEMPERATURE
	TYP. TYPICAL
	LVR. DOOR LOUVER AND SQUARE FLOOR AREA
	EQUIPMENT NUMBER
	UNDERCUT DOOR 3/4 "
	S.P. STATIC PRESSURE
	DIA. ROUND(DIAMETER)
	RL REFRIGERANT LIQUID
	RS REFRIGERANT SUCTION
	IBJS IN BETWEEN BEAM SPACE
	W/CLG. F.D. WITH CEILING FIRE DAMPER
	C.G. CEILING GRILLE
	CFM CUBIC FEET PER MINUTE
	CFME CUBIC FEET PER MINUTE OF EXHAUST AIR
	CFMS CUBIC FEET PER MINUTE OF SUPPLY AIR
	CFMR CUBIC FEET PER MINUTE OF RETURN AIR
	E. OR EXH. EXHAUST
	O.S.A. OUTSIDE AIR
	R. OR RET. RETURN
	S. OR SUPP. SUPPLY
	POR POINT OF REMOVAL
	POC POINT OF CONNECTION
	(E) EXISTING
	MZ MULTIZONE UNIT
	DD DUCT DETECTOR

* REFERS TO "SMACNA" HVAC DUCT CONSTRUCTION STANDARDS

SHEET INDEX

SHT.NO.	DESCRIPTION
MO.1	GENERAL NOTES AND SHEET INDEX
MO.2	MECHANICAL EQUIPMENT SCHEDULE
MO.3	MECHANICAL EQUIPMENT SCHEDULE
MO.4	MECHANICAL TITLE-24 ENERGY COMPLIANCE
MO.5	MECHANICAL TITLE-24 ENERGY COMPLIANCE
MO.6	MECHANICAL TITLE-24 ENERGY COMPLIANCE
MO.7	MECHANICAL TITLE-24 ENERGY COMPLIANCE
MO.8	MECHANICAL TITLE-24 ENERGY COMPLIANCE
M1.1	CAMPUS SITE PLAN
MD2.1	DEMOLITION FLOOR PLAN - BUILDING A
MD2.2	DEMOLITION FLOOR PLAN - BUILDING B
MD2.3	DEMOLITION FLOOR PLAN - BUILDING C
MD2.4	DEMOLITION FLOOR PLAN - BUILDING D
MD2.5	DEMOLITION FLOOR PLANS - BUILDINGS R1, R2 AND R3
MD3.1	DEMOLITION ROOF PLAN - BUILDING A
MD3.2	DEMOLITION ROOF PLAN - BUILDING B
MD3.3	DEMOLITION ROOF PLAN - BUILDING C
MD3.4	DEMOLITION ROOF PLAN - BUILDING D
M2.1	REMODEL FLOOR PLAN - BUILDING A
M2.2	REMODEL FLOOR PLAN - BUILDING B
M2.3	REMODEL FLOOR PLAN - BUILDING C
M2.4	REMODEL FLOOR PLAN - BUILDING D
M2.5	REMODEL FLOOR PLANS - BUILDINGS R1, R2 AND R3
M3.1	ROOF PLAN - BUILDING A
M3.2	ROOF PLAN - BUILDING B
M3.3	ROOF PLAN - BUILDING C
M3.4	ROOF PLAN - BUILDING D
M4.1	MECHANICAL DETAILS
M4.2	MECHANICAL DETAILS
M4.3	MECHANICAL DETAILS

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2007 CBC, SECTION 1614A.1.13 AND ASCE 7-05 SECTIONS 13.3, 13.4 & 13.6. THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS.

- EQUIPMENT WEIGHING LESS THAN 400 POUNDS SUPPORTED DIRECTLY ON THE FLOOR OR ROOF.
- FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH PART 2, TITLE 24, C.C.R.
- TEMPORARY OR MOVABLE EQUIPMENT.
- EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.
- EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

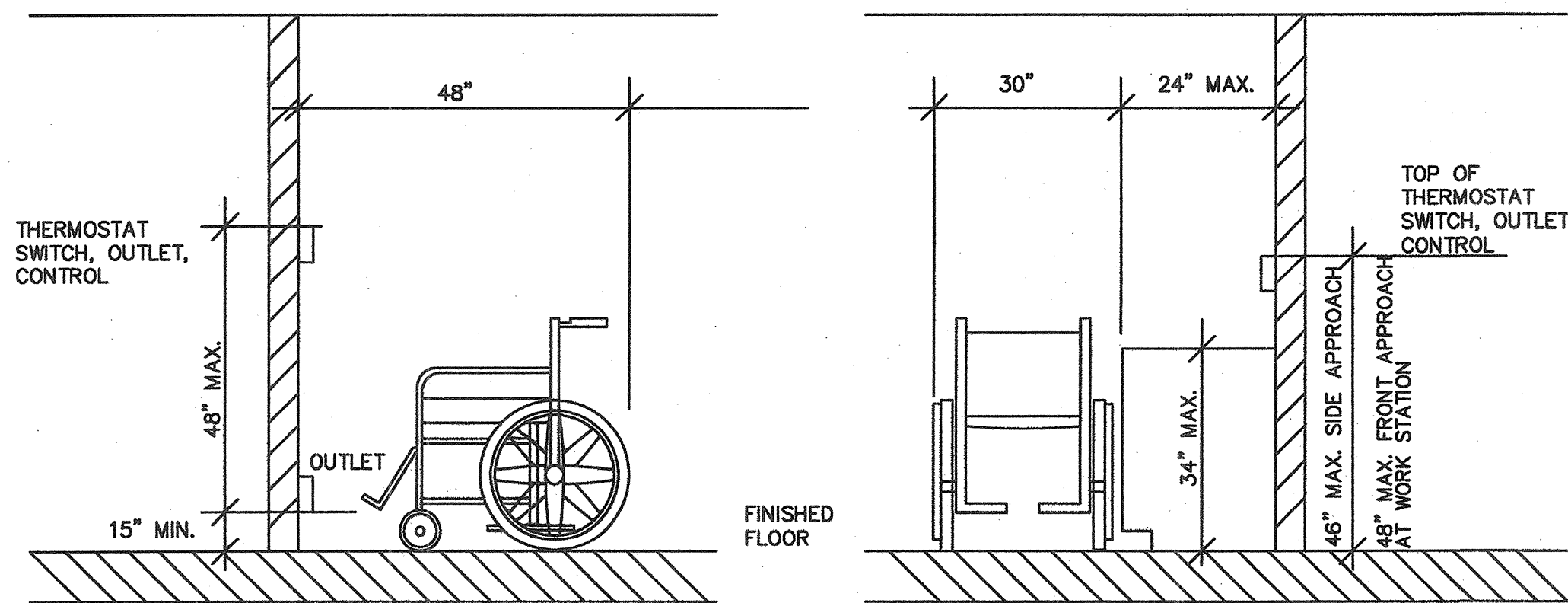
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-05 SECTION 13.3 AS DEFINED IN ASCE 7-05 SECTION 13.6.8, 13.6.7, AND 13.4.5.5, ITEM 6, RESPECTIVELY.

THE BRACING ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPA#, SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

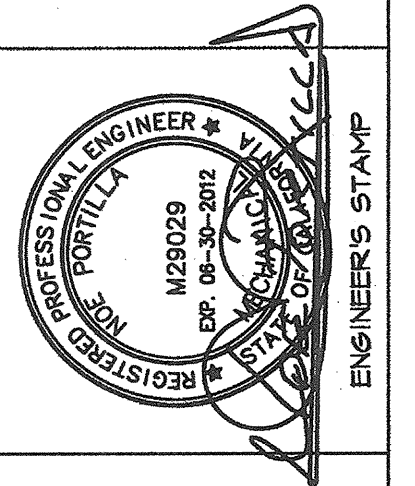
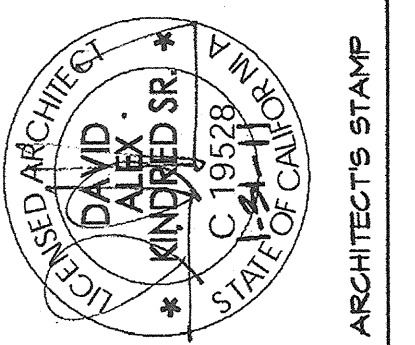
COPIES OF THE MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.



THERMOSTAT MOUNTING HEIGHT OVER OBSTRUCTION

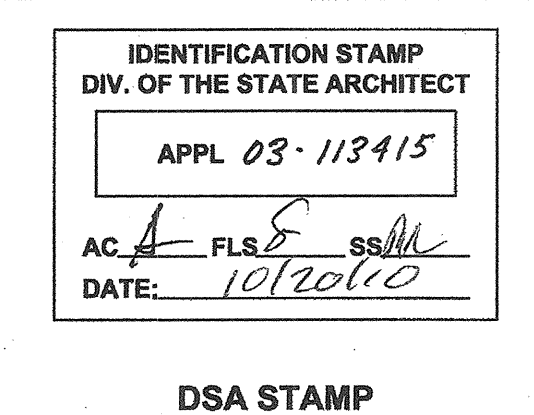
NOT TO SCALE



OAK PARK UNIFIED SCHOOL DISTRICT BROOKSIDE ELEMENTARY SCHOOL MODERNIZATION

Oak Park UNIFIED SCHOOL DISTRICT

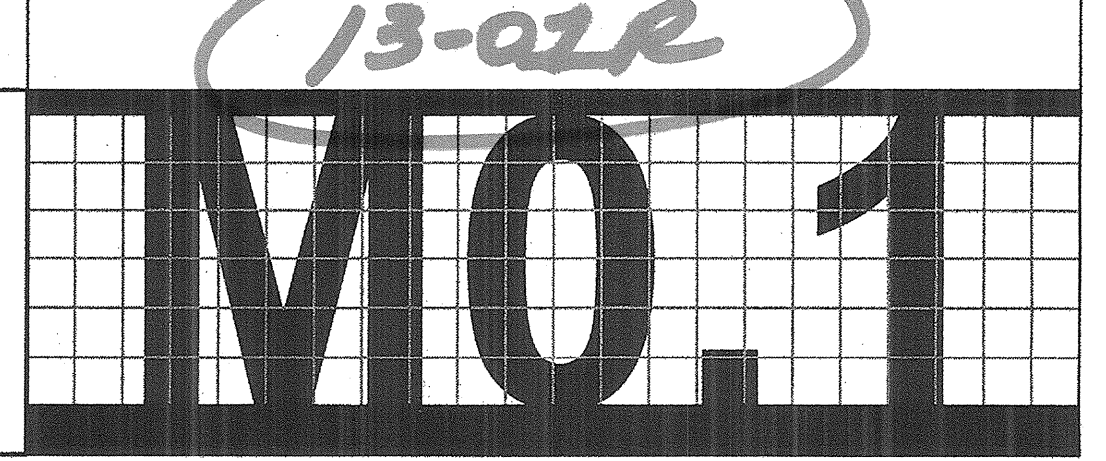
KPI Architects Inc.
 680 East Parkridge Avenue, Suite 105
 Corona, CA 92625-1059
 Phone: (951) 988-6381 Fax: (977) 483-2059



DSA STAMP

PROJECT NO. : 234000	DATE: 09-02-09
GENERAL NOTES AND SHEET INDEX	

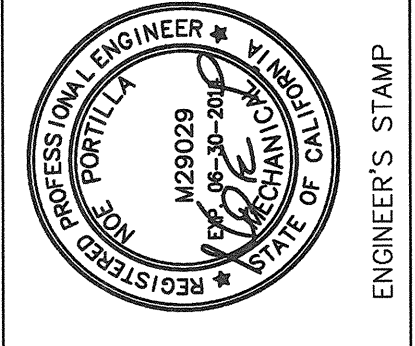
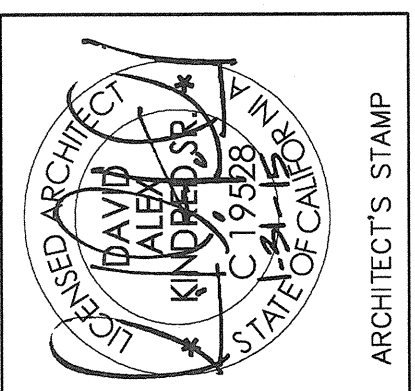
PBS ENGINEERS
 Mechanical and Electrical Consulting Engineers



EXISTING ROOFTOP GAS/ELECTRIC MULTIZONE AIR-CONDITIONING UNIT SCHEDULE																																		
ITEM NUMBER	MANUFACTURER AND MODEL NO.	BLDG. NO. LOCATION	AREA SERVED	NUMBER OF ZONES	AIR QUANTITY CFM	EXT. S.P. IN W.G.	ENTERING AIR DB/WB	FAN DATA			COOLING (103° D.B. AMB)		SEER (IEER)	EER	ELECTRICAL DATA			GAS HEATING SECTION		MIN. O.S.A. CFM	CONDENSER FAN		COMPRESSOR		POWER EXHAUST DATA				FILTER		SMOKE DUCT DETECTOR	OPER. WEIGHT LBS.	ANCHORAGE DETAIL	REMARKS
								HP	FAN RPM	-	TOTAL MBTUH	SENSIBLE MBTUH			V-φ-HZ	MCA	MOCP	TOTAL INPUT MBTUH	TOTAL OUTPUT MBTUH		V-φ-H	FLA	V-φ-H	FLA	V-φ-H	FLA	MCA	MOCP	QTY	SIZE				
(E) MZ B1	CARRIER 48MA024	BLDG.B ROOF	CLASSROOM	5	6000	1.0	81.7/67	5	1155	-	226.0	179.0	-	10.3	208-3-60	137.5	150	432	324	1500	208-3-60	6.2	208-3-60	44.4	208-3-60	-	137.5	150	12	20x25x2	-	5000		① ② ③ ④
(E) MZ B2	CARRIER 48MA024	BLDG.B ROOF	CLASSROOM	6	6600	1.2	81.7/67	5	1270	-	233.0	170.0	-	10.3	208-3-60	137.5	150	432	324	1500	208-3-60	6.2	208-3-60	44.4	208-3-60	-	137.5	150	12	20x25x2	-	5000		① ② ③ ④

REMARKS:

- CONTRACTOR SHALL CLEAN ENTIRE MULTI ZONE UNIT.
- REPLACE FILTERS.
- CONTRACTOR SHALL PROVIDE COMPLETE SERVICES AS REQUIRED FOR PROPER OPERATION IN COOLING AND HEATING MODE.
- UNIT SHALL BE SHUT DOWN BY AREA SMOKE DETECTOR OR PROVIDE NEW SHUT DOWN SYSTEM.



EXISTING ZONE DAMPER SCHEDULE															
(E)MZ-B1							(E)MZ-B2								
ZONE NO.	AIR QUANTITY CFM	TRANSITION SIZE (SUPPLY) (INxIN)	SUPPLY AIR DUCT SIZE (INxIN)	NO. OF ZONE MODULES	TRANSITION SIZE (RETURN) (INxIN)	RETURN AIR DUCT SIZE (INxIN)	REMARKS	ZONE NO.	AIR QUANTITY CFM	TRANSITION SIZE (SUPPLY) (INxIN)	SUPPLY AIR DUCT SIZE (INxIN)	NO. OF ZONE MODULES	TRANSITION SIZE (RETURN) (INxIN)	RETURN AIR DUCT SIZE (INxIN)	REMARKS
B1-1	1200	10-3/4x16	20x10	1.5	28x16 CONNECT TO 22x28 RETURN AIR DUCT UP TO UNIT FOR ZONES 1, 2, 3, AND 4	28x16	①	B2-1	1000	7-5/8x16	18x10	1	20x14 CONNECT TO 22x26 RETURN AIR DUCT UP TO UNIT	20x14	①
B1-2	1200	10-3/4x16	20x10	1.5		28x16		B2-2	1300	15x16	20x10	2	28x16		
B1-3	1300	15x16	20x10	2		28x16		B2-3	600	7-5/8x16	16x8	1	28x16 CONNECT TO 22x20 RETURN AIR DUCT UP TO UNIT	28x16	
B1-4	1300	7-5/8x16	20x10	2		28x16		B2-4	1200	7-5/8x16	20x10	1	28x16		
B1-5	1000	15x16	18x10	1		20x12 CONNECT TO 22x16 RETURN AIR DUCT UP TO UNIT		20x12	B2-5	1300	15x16	20x10	2	28x16 CONNECT TO 22x26 RETURN AIR DUCT UP TO UNIT	
								B2-6	1200	7-5/8x16	20x10	1	28x16		

REMARKS

- CONTRACTOR SHALL CLEAN ALL ZONE DAMPER AND LINKAGE AND BALANCE ZONE CFM.

EXHAUST FAN SCHEDULE																			
ITEM NO.	MANUFACTURER & MODEL NO.	AREA SERVED	LOCATION	FAN TYPE	AIR QTY CFM	ESP IN H ₂ O	B.H.P. (W)	FAN RPM	MOTOR			MAX. TIP SPEED FPM	SONES	DRIVE	APPROX. UNIT WT. LBS.	DETAIL	REMARKS		
									RPM	MIN. H.P.	V-φ-HZ								
EF 4	LOREN COOK ACEB 150 C2B	BUILDING-B	BLDG.B ROOF	DOWNBLAST CENTRIFUGAL	1400	0.25	0.13	840	1725	1/6	115-1-60	-	3298	6.1	BELT	30	AD1-M4,1a	① ② ③ ④ ⑤ ⑥	
EF 5	LOREN COOK ACEB 70 C3B	BUILDING-B	BLDG.B ROOF	DOWNBLAST CENTRIFUGAL	350	0.25	0.22	1878	1725	1/2	115-1-60	-	4916	14.6	BELT	30	AD1-M4,1a	① ② ③ ④ ⑤ ⑥	

REMARKS

- THERMAL OVERLOAD MOTOR
- BACK DRAFT DAMPER
- ROOF CURB-FACTORY FURNISHED
- AUTOMATIC BELT TENSIONER
- FAN SPEED CONTROLLER
- INTERLOCK EXHAUST FAN WITH MZ UNITS (EF-4 WITH MZ-B1, EF-5 WITH MZ-B2). PROVIDE RELAY/STARTER FOR INTERLOCKING.

Oak Park Unified School District
SCHOOL DISTRICT
BROOKSIDE ELEMENTARY SCHOOL
BUILDING B/200 (BID AND CA)
Oak Park
UNIFIED SCHOOL DISTRICT

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 650 E. Esplanade, Suite 105
 Corona, California 92718-1092
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barnhart, inc.
 A HEERY INTERNATIONAL COMPANY

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APPL 03-113415
 AC _____ FLS _____ SS _____
 DATE: _____
 DSA STAMP

PROJECT NO. : 234808 DATE: 01-07-13
 MECHANICAL EQUIPMENT SCHEDULE

PBS
 ENGINEERS
 2100 East Route 66, Suite 101 Glendora, CA 91740
 T 626.650.0350 F 626.650.0352
 Job No. 2010-014-01 www.pbsengineers.com
 Mechanical Electrical Plumbing | Consulting Engineers
 QA/QC BY: _____

AD1-MO.2