



ARCHITECTURE

PHILIP BANTA & ASSOCIATES

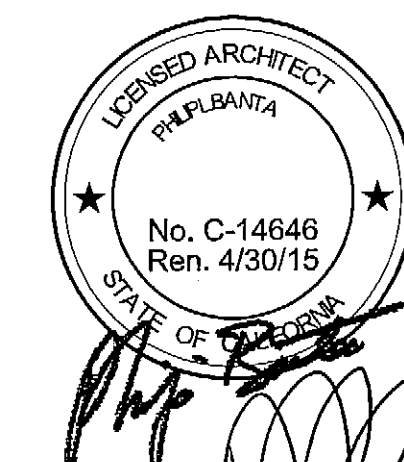
6050 HOLMIS STREET  
EMERYVILLE, CALIFORNIA 94608

TEL: 1-510-654-3255  
FAX: 1-510-654-3259  
www.bantadesign.com

REVISIONS:  $\Delta$  ISSUES:  $\circ$

No.	Description	Date
1/1	1ST PLAN CHECK REVIEW	07/14/14
1/1	BUILDING PERMIT	12/12/13

PROJECT:  
**35th @ School**  
Oakland, CA 94619



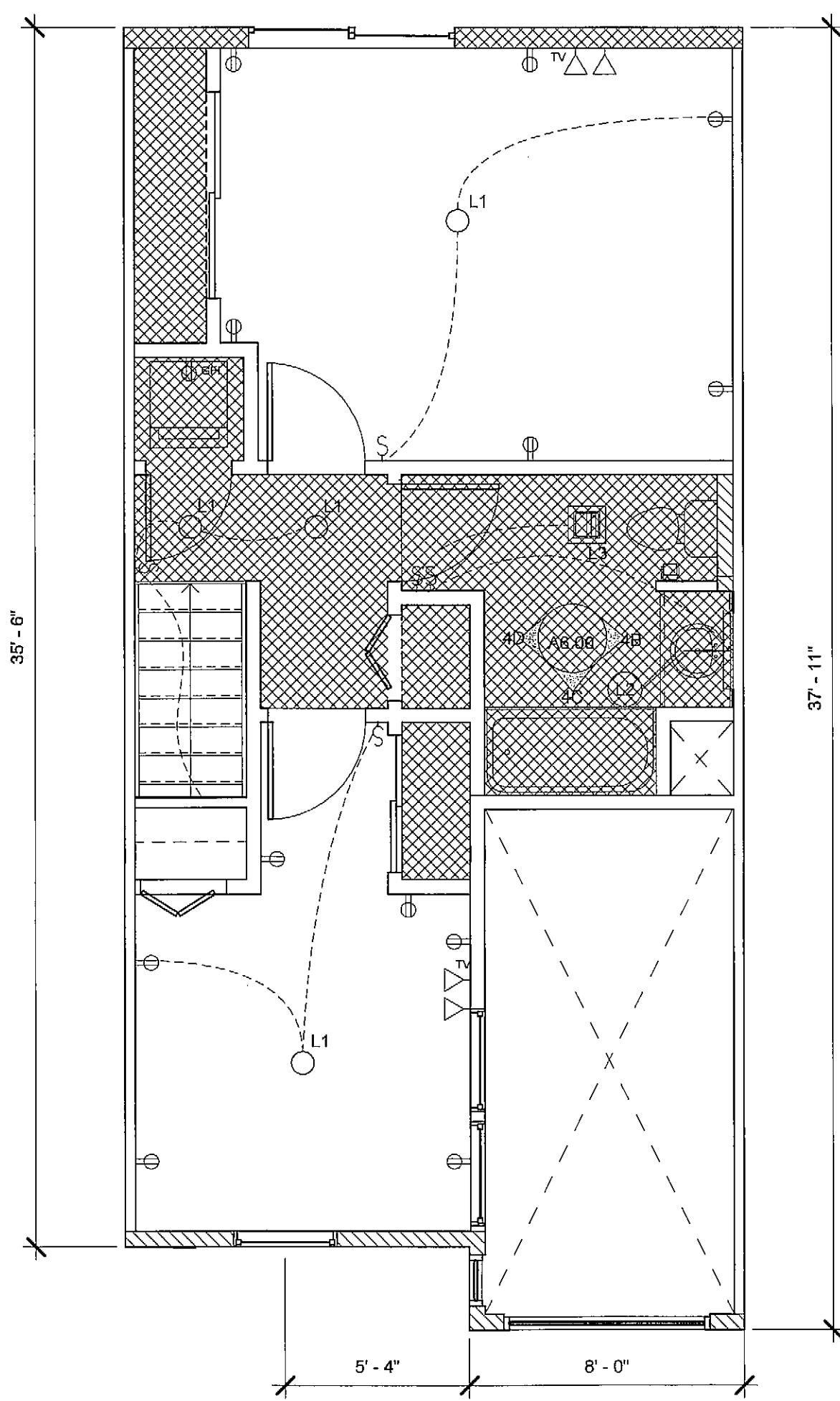
SHEET DESCRIPTION:

**UNIT A3  
RCP/ELECTRICAL  
PLANS**

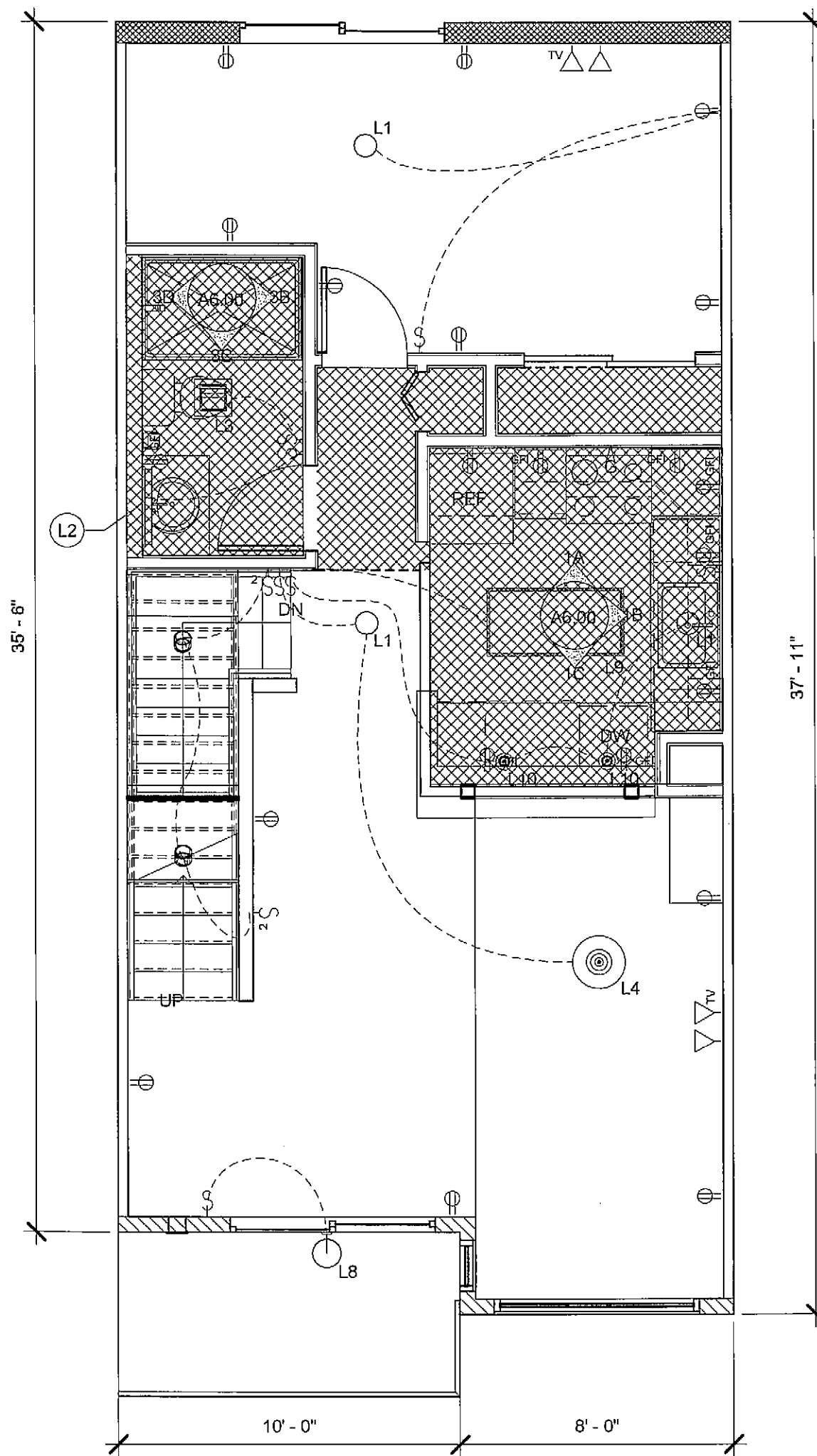
PROJECT NUMBER:	0714
DATE:	01/14/14
DRAWN BY:	JH/JY
CHECKED BY:	PB
SCALE:	As indicated

**A3.01**

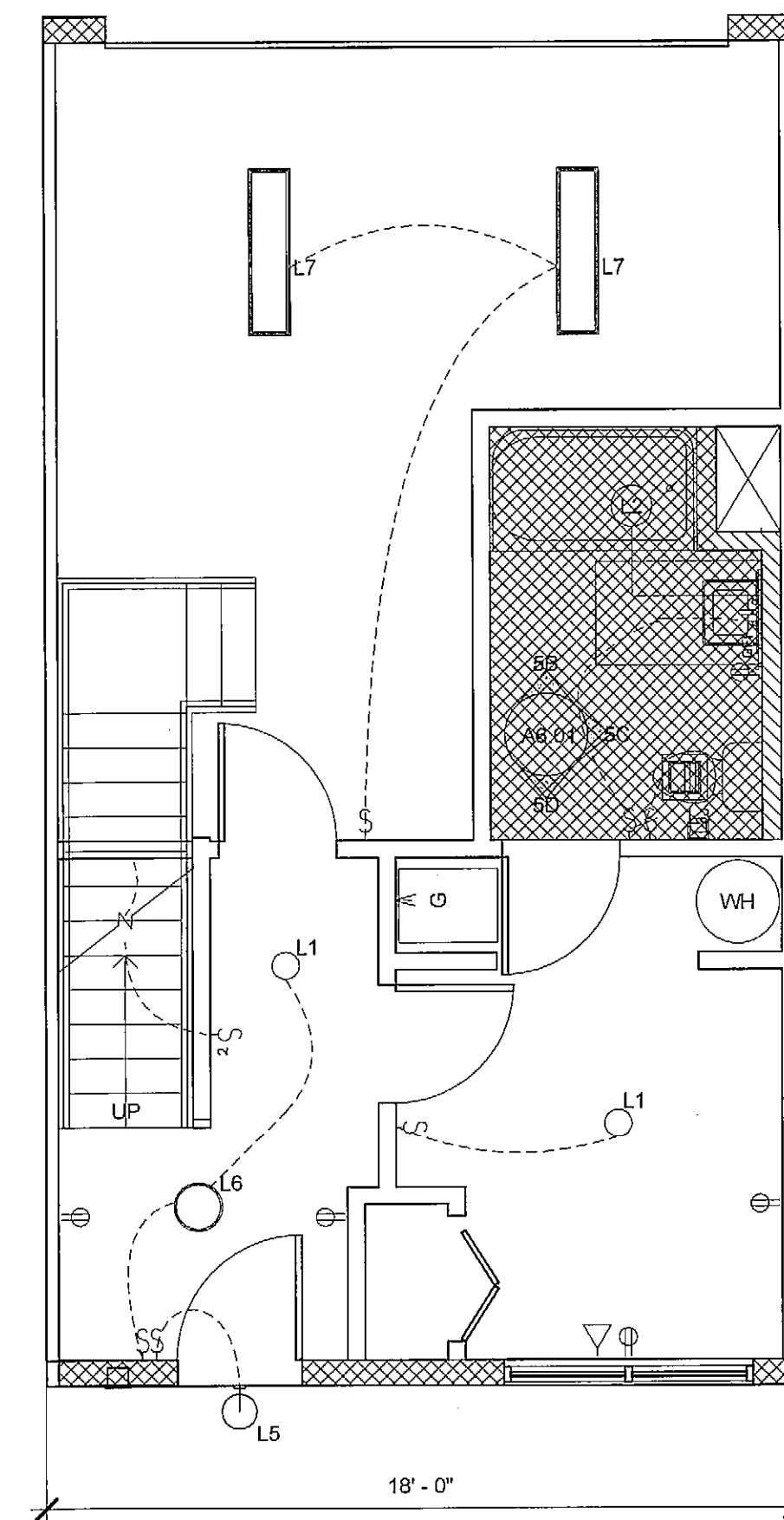
12/22/2013 12:22:31 PM



3 ElecPlan UNIT A3 3RD FLOOR  
1/4" = 1'-0"



2 ElecPlan UNIT A3 2ND FLOOR  
1/4" = 1'-0"



1 ElecPlan UNIT A3 1ST FLOOR  
1/4" = 1'-0"

- $\circ$  L1 - RECESSED
- $\circ$  L1A - EXTERIOR RECESSED
- $\text{---}$  L2 - VANITY WALL FIXTURE
- $\square$  L3 - CEILING FAN W LIGHT
- $\odot$  L4 - DINING ROOM PENDANT
- $\text{---}$  L5 - EXTERIOR LIGHTING - ENTRY
- $\circ$  L6 - FLUSH MOUNTED LIGHT
- $\text{---}$  L7 - STRIP FLUORESCENT
- $\text{---}$  L8 - EXTERIOR LIGHTING - DECK
- $\square$  L9 - FLUORESCENT CEILING LIGHT - MINKA ENERGY STAR (17 1/4" x 4 1/2" x 51 1/2")
- $\odot$  L10 - KITCHEN ISLAND PENDANT
- $\circ$  L11 - CEILING MOUNT
- $\square$  G GAS
- $\square$  TV TV OUTLET
- $\square$  TELEPHONE
- $\square$  DUPLEX OUTLET
- $\square$  GFI DUPLEX OUTLET
- $\square$  LIGHT SWITCH DOUBLE
- $\square$  LIGHT SWITCH SINGLE
- $\square$  DROPPED CEILING, 8'-0" TYP., U.N.O.

ELECTRICAL NOTES:

- (A) - WALLS 2 FEET WIDE AND GREATER SHALL HAVE AN ELECTRICAL OUTLET. OUTLETS SHALL BE LOCATED WITH A MAXIMUM SPACING OF 12 FEET AND WITHIN 6 FEET OR ENDS OF WALLS AND OPENINGS.
- (B) - LOCATE RECEPTACLE OUTLETS IN KITCHEN AT EVERY COUNTER SPACE WIDER THAN 12 INCHES SO THAT NO POINT IS MORE THAN 24 INCHES FROM AN OUTLET.
- (C) - ALL EXTERIOR LIGHTING MUST BE HIGH EFFICACY PER CEC SECTION 150. AS AN EXCEPTION THE EXTERIOR LIGHTS MAY BE INCANDESCENT LIGHTING CONTROLLED BY A MOTION SENSOR, EXCEPTION 1, SECTION 150(K) 6.
- (D) - ROOMS WITH PERMANENT LIGHTING MUST HAVE HIGH EFFICACY OR NON-HIGH EFFICACY LIGHTING SHALL BE CONTROLLED BY A MANUAL ON MOTION SENSOR OR DIMMER SWITCH CONTROL PER CEC SECTION 150(K) 4. EXCEPTIONS (1), (2) & (3).
- (E) - ALL OTHER INTERIOR ROOMS - ALTERNATE OPTION: MANUAL-ON OCCUPANT SENSOR, OR DIMMER.
- (F) - BATHROOM, LAUNDRY UTILITY: ALTERNATE OPTION: MANUAL-ON OCCUPANT SENSOR, AT LEAST ONE RECEPTACLE OUTLET. IN ADDITION TO ANY PROVIDED FOR LAUNDRY EQUIPMENT, SHALL BE INSTALLED PER 2004 C.E.C. ARTICLE 210-52.1.
- (G) - KITCHEN-ALTERNATE OPTION: UP TO 50% OF RELAMPING RATED WATTAGE CAN BE OTHER THAN HIGH EFFICACY.
- (H) - ALL CLOSETS EXCEEDING 70 SQUARE FEET, MUST HAVE HIGH EFFICACY LIGHTING.
- (I) - ALL LUMINARIES INSTALLED IN WET OR DAMP LOCATIONS MUST BE SUITABLE FOR WET LOCATIONS.
- (J) - SWITCH ALL HIGH EFFICACY LIGHTING SEPARATE FROM LOW EFFICACY LIGHTING.
- (K) - ELECTRONIC BALLASTS FOR ALL FLUORESCENT LAMPS RATED 19 WATTS OR GREATER.
- (L) - PROVIDE DEDICATED CIRCUITS AT ALL RECP LPG SENSORS.
- (M) - RECESSED LUMINARIES IN ALL INSULATED CEILING APPROVED FOR ZERO-CLEARANCE INSULATION COVER (IC) AND CERTIFIED AIRTIGHT.
- (N) - ALL BRANCH CIRCUITS THAT SUPPLY RECEPTACLE OUTLETS IN BEDROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER(S) LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT, INCLUDING LIGHTING OUTLETS AND SMOKE DETECTORS.
- (O) - USE 110V SMOKE DETECTORS W BATTERY BACKUP (WHICH ARE AUDIBLE IN ALL SLEEPING AREAS) AT ALL BEDROOMS, CENTRALLY LOCATED IN CORRIDOR AND HALLWAYS LEADING TO BEDROOMS, ABOVE TOPS OF STAIRS, AND AT LEAST ONE AT EVERY LEVEL, INCLUDING BASEMENTS.
- (P) - PROVIDE TWO OR MORE 20-AMPERE SMALL APPLIANCE BRANCH CIRCUITS EVENLY PROPORTIONED IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREAS. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.
- (Q) - RECEPTACLE OUTLETS IN BATHROOMS, GARAGES, OUTDOORS AND CRAWL SPACES SHALL HAVE GFCI PROTECTION FOR PERSONNEL, IN ACCORDANCE WITH CEC 210.8 A.



ARCHITECTURE

**PHILIP BANTA & ASSOCIATES**

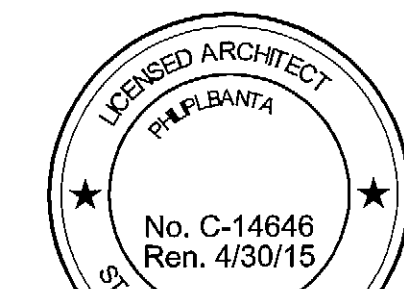
3050 HOLLY STREET  
EMERYVILLE, CALIFORNIA 94608

TEL: 510-654-3255  
FAX: 510-654-3289  
www.philipbanta.com

REVISIONS:  ISSUES:

No.	Description	Date
(1)	1ST PLAN CHECK REVIEW	01/14/14
(1)	BUILDING PERMIT	12/12/13

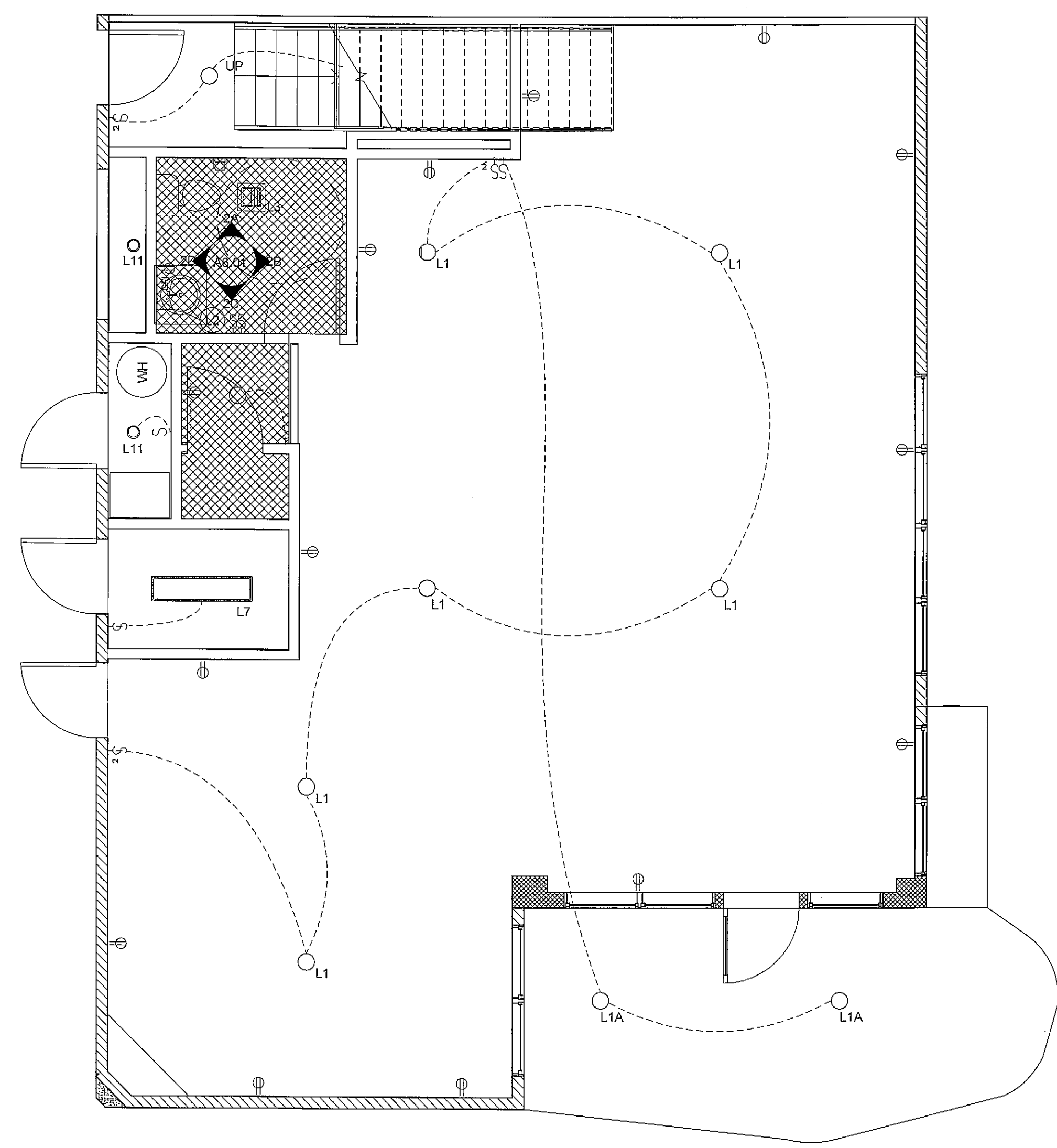
PROJECT:  
**35th @ School**  
Oakland, CA 94619



SHEET DESCRIPTION:  
**UNIT B  
RCP/ELECTRICAL  
PLANS  
(COMMERCIAL)**

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JH/JY  
CHECKED BY: PB  
SCALE: As indicated

**A3.10**



1 ElecPlan UNIT B 1ST FLOOR  
1/4" = 1'-0"

- L1 - RECESSED
  - L1A - EXTERIOR RECESSED
  - L2 - VANITY WALL FIXTURE
  - L3 - CEILING FAN W/ LIGHT
  - L4 - DINING ROOM PENDANT
  - L5 - EXTERIOR LIGHTING - ENTRY
  - L6 - FLUSH MOUNTED LIGHT
  - L7 - STRIP FLUORESCENT
  - L8 - EXTERIOR LIGHTING - DECK
  - L9 - FLOURESCENT CEILING LIGHT - MINKA ENERGY STAR (17 1/4" x 4 1/2" x 51 1/2")
  - L10 - KITCHEN ISLAND PENDANT
  - L11 - CEILING MOUNT
- DROPPED CEILING, 8'-0" TYP., U.N.O.
  - GAS
  - TV OUTLET
  - TELEPHONE
  - DUPLEX OUTLET
  - GFI DUPLEX OUTLET
  - LIGHT SWITCH DOUBLE
  - LIGHT SWITCH SINGLE

**ELECTRICAL NOTES:**

(A)- WALLS 2 FEET WIDE AND GREATER SHALL HAVE HIGH EFFICACY OR NON-HIGH EFFICACY LIGHTING. OUTLETS SHALL BE LOCATED WITH A MAXIMUM SPACING OF 12 FEET AND WITHIN 6 FEET OF ENDS OF WALLS AND OPENINGS.

(B)- LOCATE RECEPTACLE OUTLETS IN KITCHEN AT EVERY COUNTER SPACE WIDER THAN 12 INCHES SO THAT NO POINT IS MORE THAN 24 INCHES FROM AN OUTLET.

(C)- ALL EXTERIOR LIGHTING MUST BE HIGH EFFICACY PER CEC SECTION 150. AS AN EXCEPTION THE EXTERIOR LIGHTS MAY BE INCANDESCENT LIGHTING CONTROLLED BY A MOTION SENSOR, EXCEPTION 1, SECTION 150(K) 8.

(D)- ROOMS WITH PERMANENT LIGHTING MUST HAVE HIGH EFFICACY OR NON-HIGH EFFICACY LIGHTING SHALL BE CONTROLLED BY A MANUAL ON MOTION SENSOR OR DIMMER SWITCH CONTROL PER CEC SECTION 150(K)4. EXCEPTIONS (1), (2) & (3).

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(F)- BATHROOM, LAUNDRY UTILITY- ALTERNATE OPTION: MANUAL ON OCCUPANT SENSOR, AT LEAST ONE RECEPTACLE OUTLET, IN ADDITION TO ANY PROVIDED FOR LAUNDRY EQUIPMENT, SHALL BE INSTALLED PER 2004 C.E.C. ARTICLE 210-52.1.

(G)- KITCHEN-ALTERNATE OPTION: UP TO 50% OF RELAMPING RATED WATTAGE CAN BE OTHER THAN HIGH EFFICACY.

(H)- ALL CLOSETS EXCEEDING 70 SQUARE FEET, MUST HAVE HIGH EFFICACY LIGHTING.

(I)- ALL LUMINARIES INSTALLED IN WET OR DAMP LOCATIONS MUST BE SUITABLE FOR WET LOCATIONS.

(J)- SWITCH ALL HIGH EFFICACY LIGHTING SEPARATE FROM LOW EFFICACY LIGHTING.

(K)- ELECTRONIC BALLASTS FOR ALL FLUORESCENT LAMPS RATED 13 WATTS OR GREATER.

(L)- PROVIDE DEDICATED CIRCUITS AT ALL REQD LPG SENSORS

(M)- RECESSED LUMINARIES IN ALL INSULATED CEILINGS APPROVED FOR ZERO-CLEARANCE INSULATION COVER (IC) AND CERTIFIED AIRTIGHT.

(N)- ALL BRANCH CIRCUITS THAT SUPPLY RECEPTACLE OUTLETS IN BEDROOMS SHALL BE PROTECTED BY AN ARC-FULT CIRCUIT INTERRUPTER(S) LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT, INCLUDING LIGHTING OUTLETS AND SMOKE DETECTORS.

(O) USE 110V SMOKE DETECTORS W/ BATTERY BACKUP (WHICH ARE ALLOWABLE IN ALL SLEEPING AREAS) AT ALL BEDROOMS, CENTRALLY LOCATED IN CORRIDOR AND HALLWAYS LEADING TO BEDROOMS, ABOVE TOPS OF STAIRS, AND AT LEAST ONE AT EVERY LEVEL, INCLUDING BASEMENTS.

(P)- PROVIDE TWO OR MORE 20-AMPERE SMALL APPLIANCE BRANCH CIRCUITS EVENLY PROPORTIONED IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREAS, SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.

(Q) RECEPTACLE OUTLETS IN BATHROOMS, GARAGES, OUTDOORS AND CRAWL SPACES SHALL HAVE GFCI PROTECTION FOR PERSONNEL, IN ACCORDANCE WITH CEC 210.8 A

**APPLICANT COPY**

12/27/13 4:01:08 PM

ARCHITECTURE

PHILIP BANTA & ASSOCIATES

6050 HOLDS STREET  
EMERYVILLE, CALIFORNIA 94608

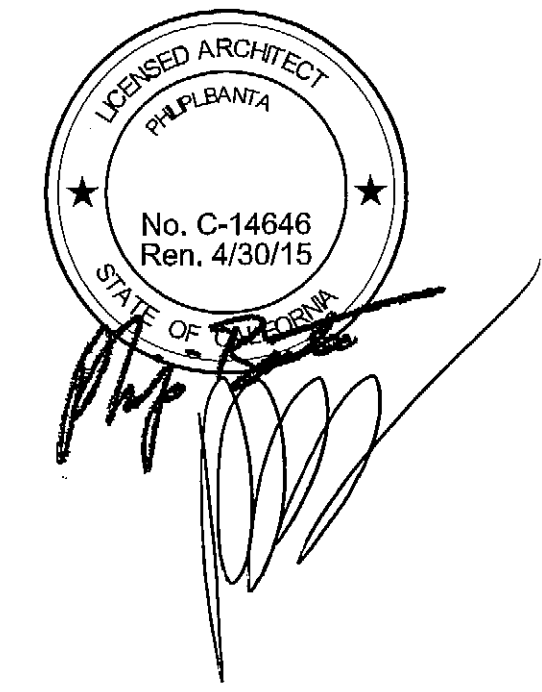
TEL: 510.654.3255  
FAX: 510.654.3259  
www.bantadesign.com

PHILIP BANTA & ASSOCIATES IS AN EQUAL OPPORTUNITY EMPLOYER. WE DO NOT DISCRIMINATE ON THE BASIS OF RACE, GENDER, RELIGION, NATIONAL ORIGIN, ANCESTRY, AGE, SEXUAL ORIENTATION, OR MARITAL STATUS.

REVISIONS:  ISSUES:

No.	Description	Date
1/	1ST PLAN CHECK REVIEW	01/14/14
1/	BUILDING PERMIT	12/12/13

PROJECT:  
**35th @ School**  
Oakland, CA 94619

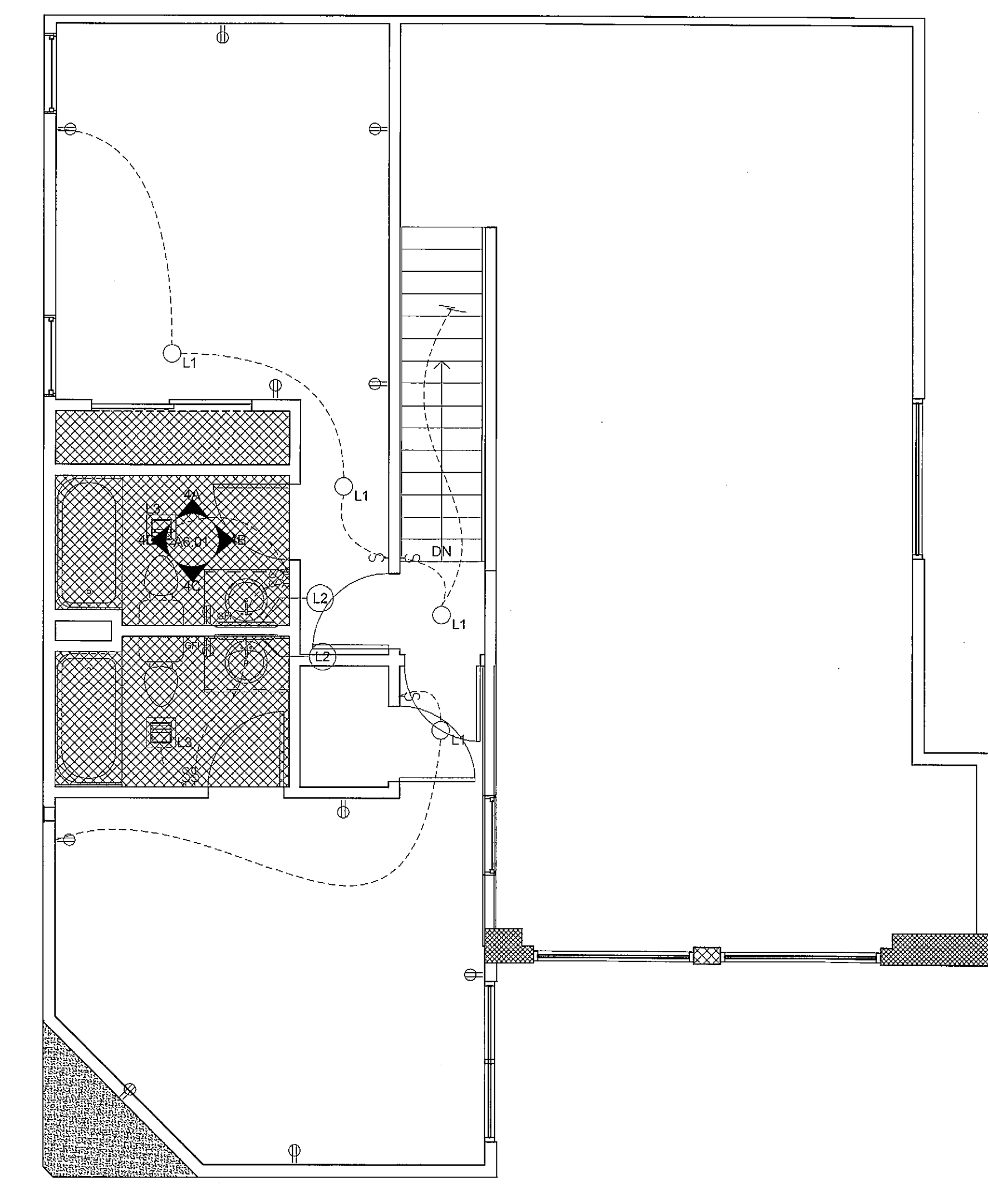


SHEET DESCRIPTION:  
**UNIT B  
RCP/ELECTRICAL  
PLANS (RESIDENTIAL)**

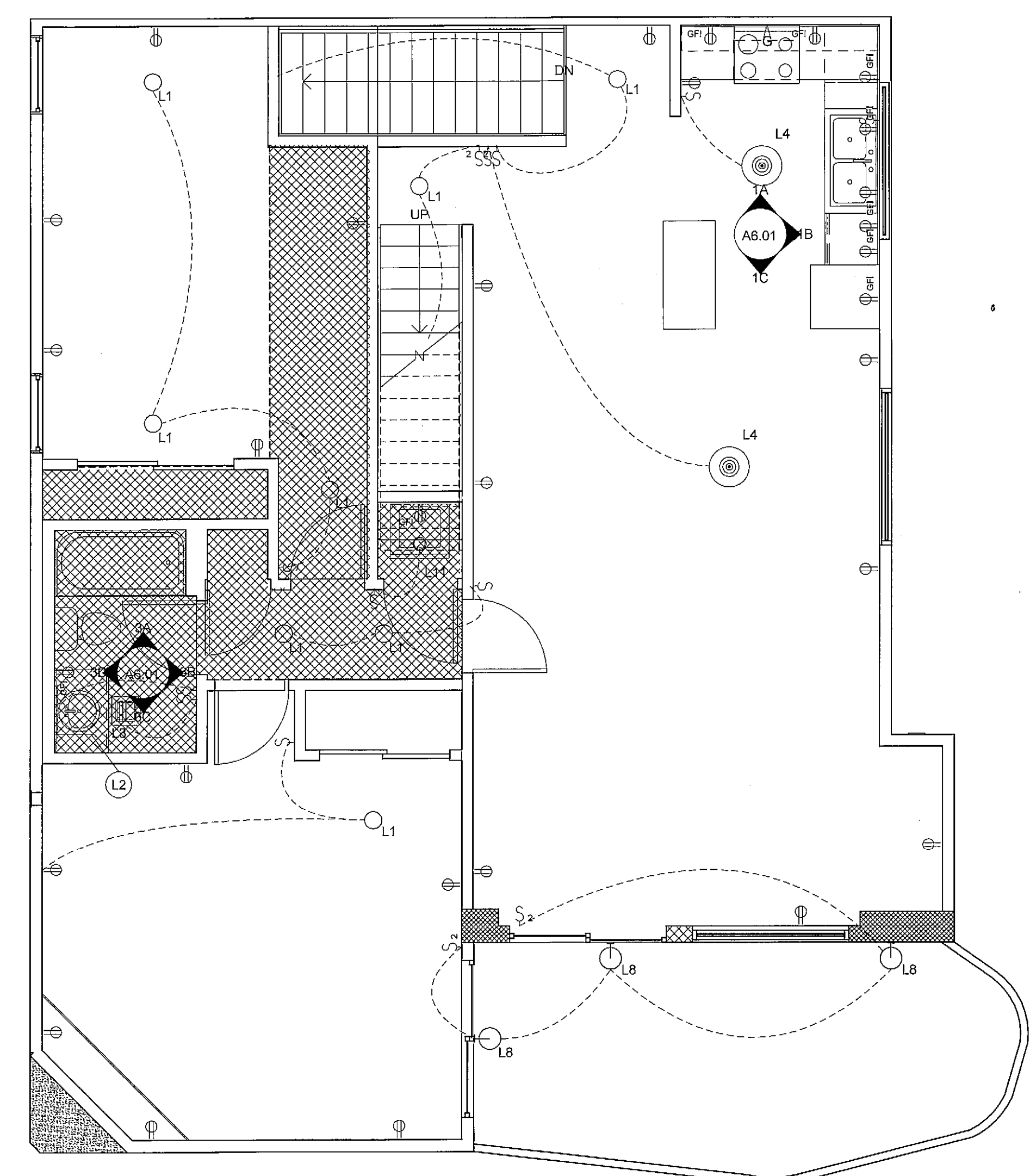
PROJECT NUMBER:	0714
DATE:	01/14/14
DRAWN BY:	JH/JY
CHECKED BY:	PB
SCALE:	As indicated

**A3.11**

12/7/2013 4:01:07 PM



2 ElecPlan UNIT B 3RD FLOOR  
1/4" = 1'-0"



1 ElecPlan UNIT B 2ND FLOOR  
1/4" = 1'-0"

- L1 - RECESSED
- L1A - EXTERIOR RECESSED
- L2 - VANITY WALL FIXTURE
- L3 - CEILING FAN W/ LIGHT
- L4 - DINING ROOM PENDANT
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- GFI DUPLEX OUTLET
- LIGHT SWITCH DOUBLE
- LIGHT SWITCH SINGLE

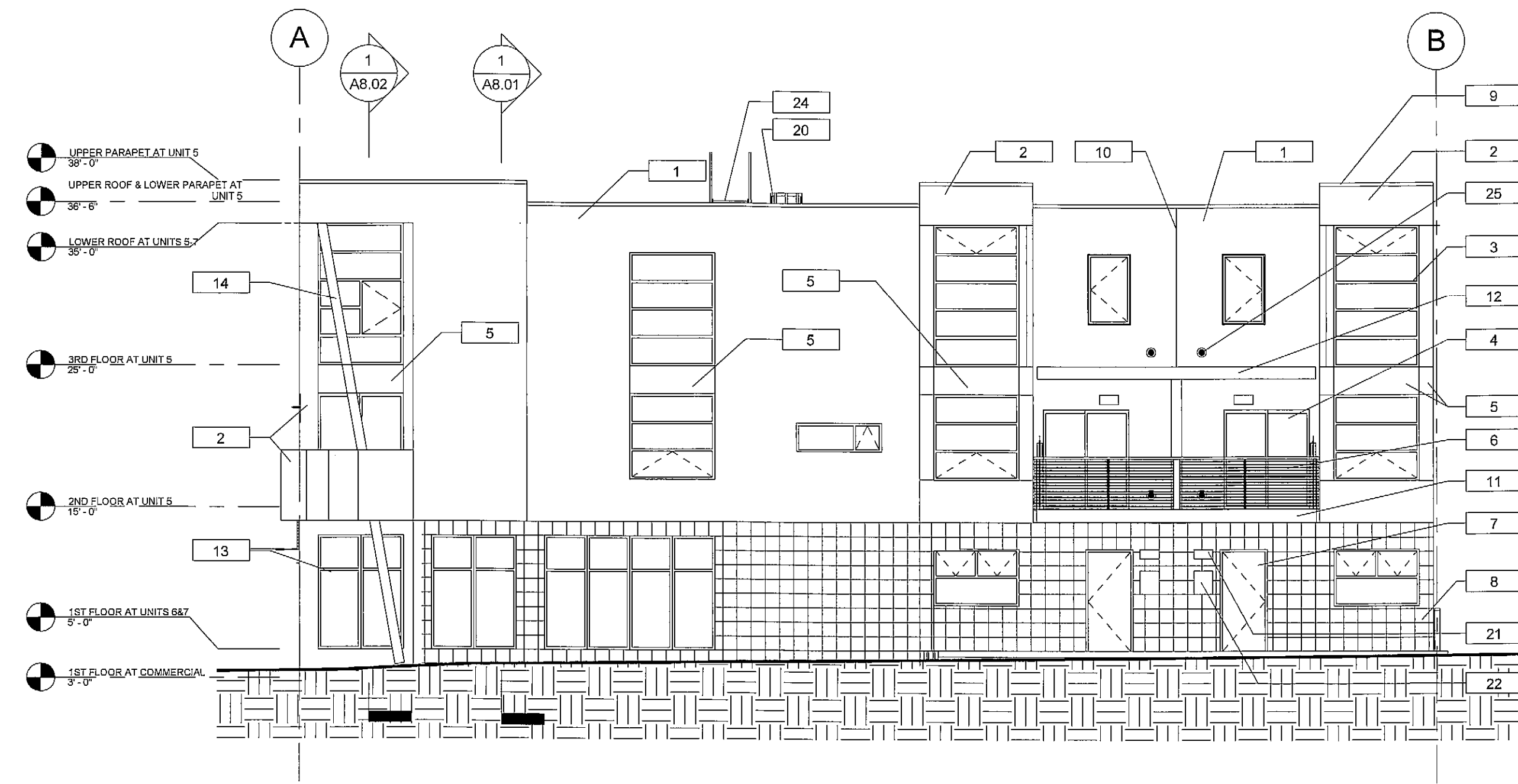
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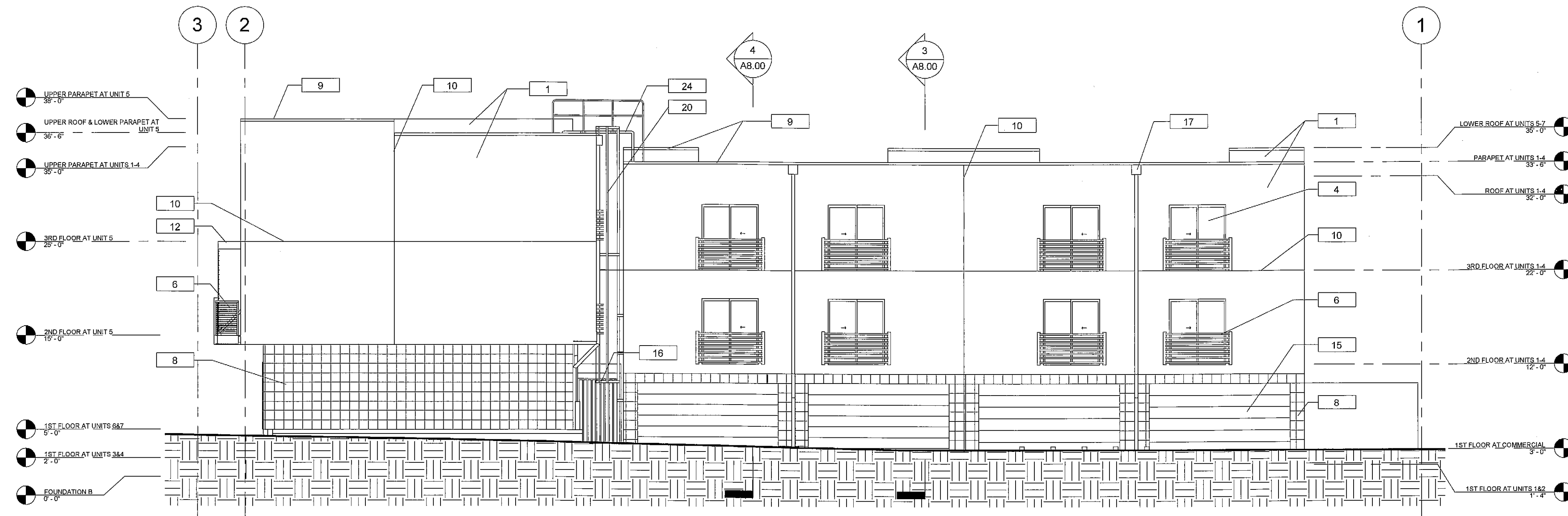
(P)- PROVIDE TWO OR MORE 20-AMPERE SMALL APPLIANCE BRANCH CIRCUITS EVENLY PROPORTIONED IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREAS. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.  
(Q) RECEPTACLE OUTLETS IN BATHROOMS, GARAGES, OUTDOORS AND CRAWL SPACES SHALL HAVE GFCI PROTECTION FOR PERSONNEL, IN ACCORDANCE WITH CEC 210.8 A



2 EAST ELEVATION (VIEW FROM 35TH ST.)  
1/8" = 1'-0"

- 1 7/8" CEMENT PLASTER
- 2 7/8" CEMENT PLASTER STEEL TROWEL FINISH
- 3 ALUMINUM WINDOWS
- 4 SLIDING METAL DOOR
- 5 ALUMINUM PANEL COLOR TO MATCH ADJACENT WINDOW
- 6 PAINTED METAL RAILING
- 7 HM FRAME W/ SOLID CORE DOOR PAINTED
- 8 12" X 12" GRANITE TILE - GRANITE TILE FLAMED - VERDE UBATUBA
- 9 GSM FLASHING NOTE: (ALL STUCCO SHALL BE CONCEALED WITHIN FLASHING)
- 10 3/8" "V" CONTROL JOINT
- 11 PAINTED METAL DECK
- 12 PAINTED METAL TRELLIS
- 13 ALLUMINUM STOREFRONT WINDOWS
- 14 PAINTED METAL POLE
- 15 PAINTED METAL GARAGE DOORS
- 16 PAINTED METAL GATE
- 17 PAINTED METAL CONDUCTOR-HEAD & DRAIN PIPE
- 18 METAL FRAMED ROOF W/ TRANSPARENT COVERING
- 19 MAIL BOXES
- 20 ROOF ACCESS LADDER WITH CAGE TYP.
- 21 EXTERIOR LIGHT FIXTURE UNIT
- 22 UNIT ADDRESS SIGN
- 23 PROPERTY ADDRESS SIGN
- 24 PAINTED CATWALK
- 25 ACOUSTICAL VENT- PROVIDE THERMA-STOR FRESH 100 OR APPROVED EQUAL

NOTES:  
1. ALL WINDOWS THAT ARE NOT BAY WINDOW TYPE SHALL BE 2" RECESSED FROM FRONT OF FINISHED FACADE.



1 NORTH ELEVATION (VIEW FROM PARKING @ REAR OF BLDG.)  
1/8" = 1'-0"

APPROVED  
BY THE CITY OF OAKLAND  
BUILDING SERVICES  
CHECK SECT. IN  
CONFORMANCE WITH  
SECTION 105.4 & 105.8  
OF THE OAKLAND  
BUILDING CODE  
AS AMENDED BY  
ORDINANCE 105.4.3  
& 105.8  
SURVEY (REVIEW ONLY)  
PLOT PLAN REVIEW  
PAVING/LANDSCAPE LAYOUT  
CHECKING AND  
CONSTRUCTION CONTROL  
REVISIONS REPORT ON FILE  
MECH. PLUMB.  
CHECKED

SEE GROUP  
FLOOR PLAN

APPLICANT  
COPY

ARCHITECTURE

**PHILIP BANTA & ASSOCIATES**

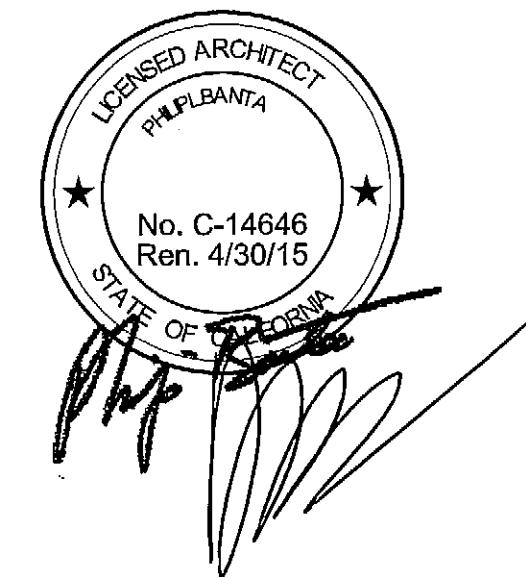
2050 HOLLIS STREET  
EMERYVILLE, CALIFORNIA 94608

TEL: 510.654.3255  
FAX: 510.654.3259  
www.philipbanta.com

REVISIONS:  ISSUES:

No.	Description	Date
1	1ST PLAN CHECK REVIEW	01/14/14
1	BUILDING PERMIT	12/12/13

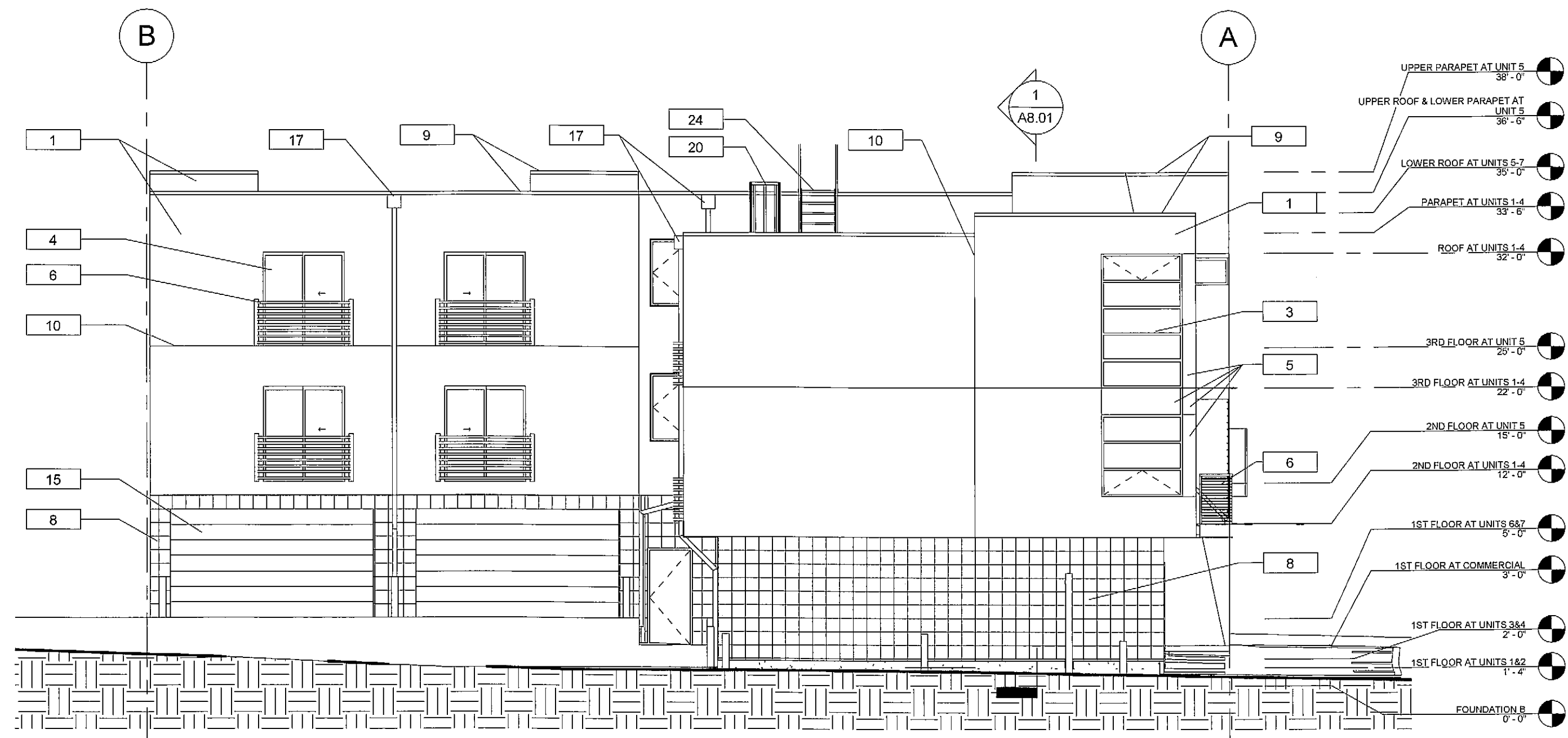
PROJECT:  
**35th @ School**  
Oakland, CA 94619



SHEET DESCRIPTION:  
**EXTERIOR ELEVATIONS**

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JH/JY  
CHECKED BY: PB  
SCALE: 1/8" = 1'-0"

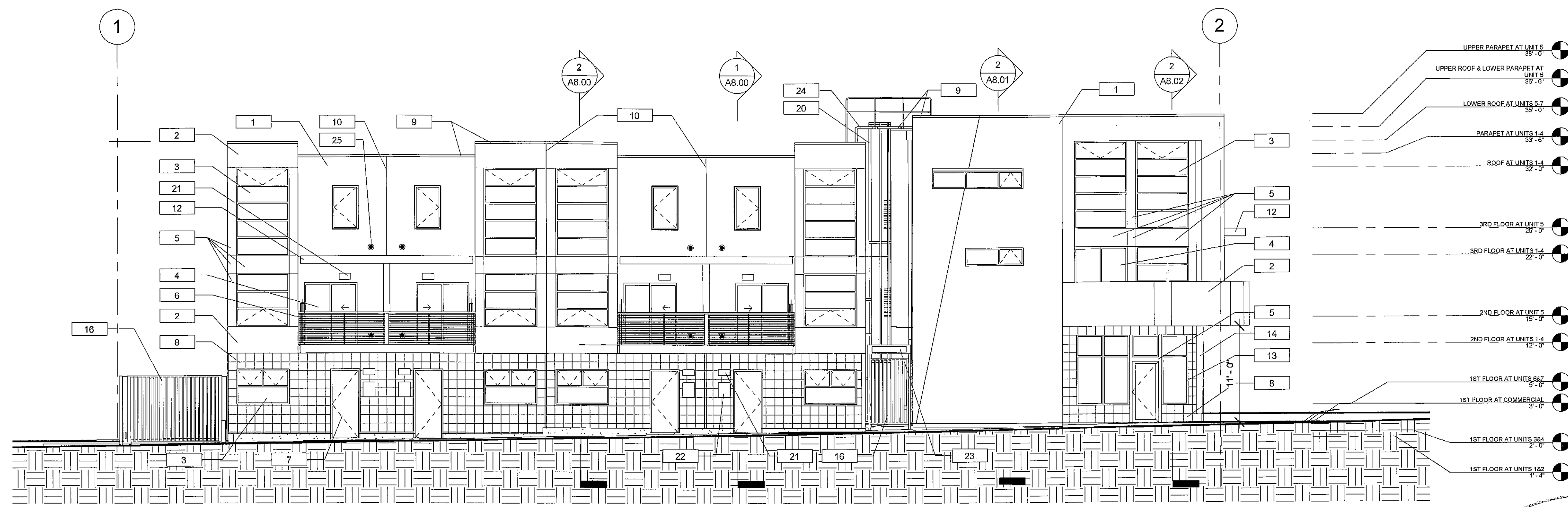
**A4.00**



1 WEST ELEVATION  
1/8" = 1'-0"

- 1 7/8" CEMENT PLASTER
- 2 7/8" CEMENT PLASTER STEEL TROWEL FINISH
- 3 ALUMINUM WINDOWS
- 4 SLIDING METAL DOOR
- 5 ALUMINUM PANEL COLOR TO MATCH ADJACENT WINDOW
- 6 PAINTED METAL RAILING
- 7 HM FRAME W/ SOLID CORE DOOR PAINTED
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- 23 PROPERTY ADDRESS SIGN
- 24 PAINTED CATWALK
- 25 ACOUSTICAL VENT- PROVIDE THERMA-STOR FRESH 100 OR APPROVED EQUAL

NOTES:  
1. ALL WINDOWS THAT ARE NOT BAY WINDOW TYPE SHALL BE 2" RECESSED FROM FRONT OF FINISHED FACADE.



2 SOUTH ELEVATION  
1/8" = 1'-0"

APPROVED  
CITY OF OAKLAND  
BUILDING SERVICES  
PLAN CHECK SECTION  
FOR Department Compliance With  
Codes and Ordinances  
REVISIONS NEED APPROVAL  
BY: [Signature]  
SUBJECT TO UBC SECT 106.4.3  
IBC SECT 105.4 & IRC SECT P105.5  
--- SURVEY (REVIEW ONLY)  
--- PLOT PLAN REVIEW  
--- PARKINGWAY LAYOUT  
--- GRADING AND  
EROSION CONTROL  
--- SOILS REPORT ON FILE  
ELECT. MECH. PLUMBS  
NOT CHECKED  
Date: \_\_\_\_\_

ARCHITECTURE

**PHILIP BANTA & ASSOCIATES**

6950 HOLLIS STREET  
EMERYVILLE, CALIFORNIA 94608

TEL: 510.654.3255  
FAX: 510.654.3259  
www.philipbanta.com

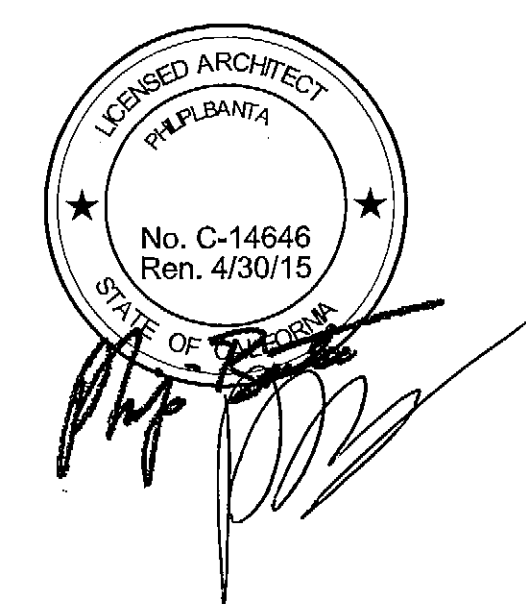
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REVISIONS:  ISSUES:

No.	Description	Date
1/1	1ST PLAN CHECK REVIEW	01/14/14
1/2	BUILDING PERMIT	12/12/13

PROJECT:

**35th @ School**  
Oakland, CA 94619

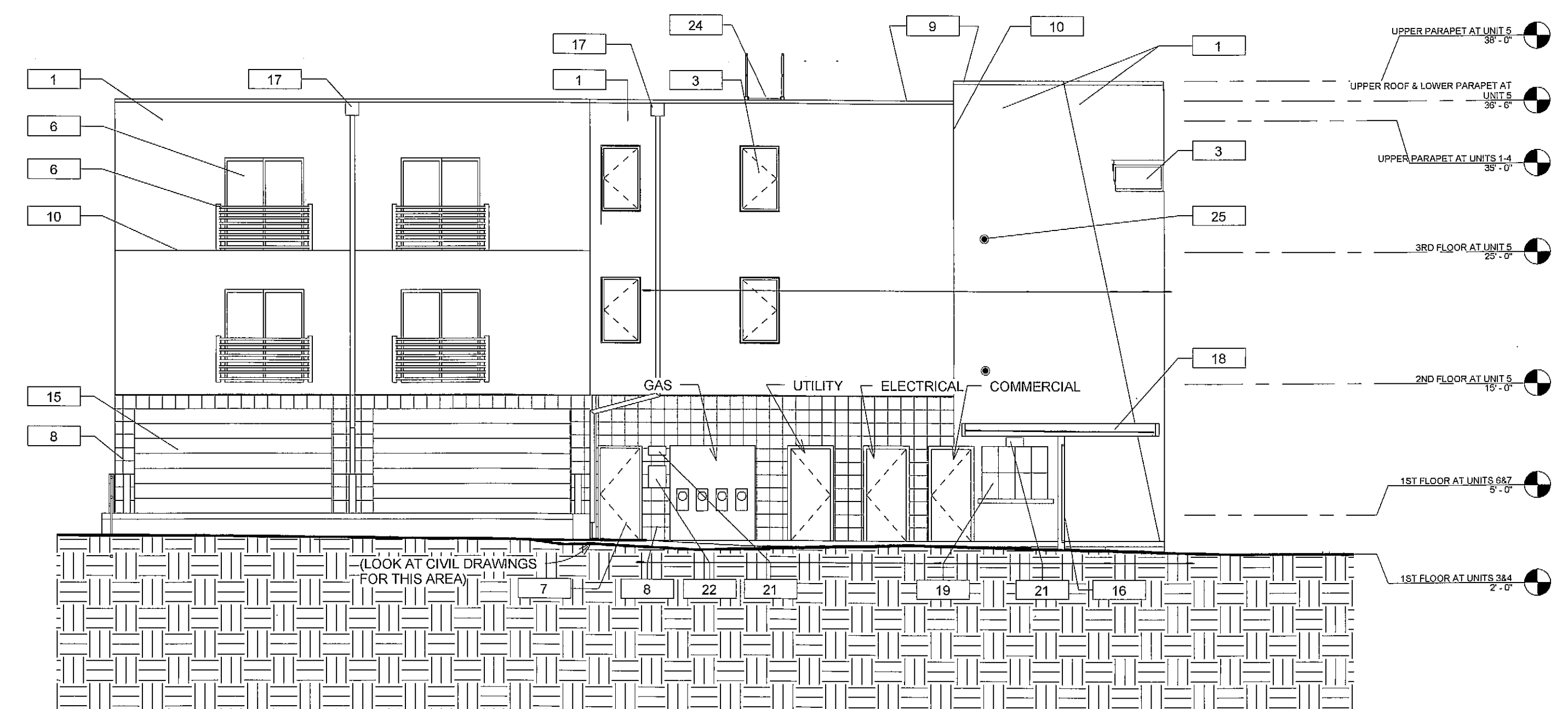


SHEET DESCRIPTION:  
**EXTERIOR ELEVATIONS**

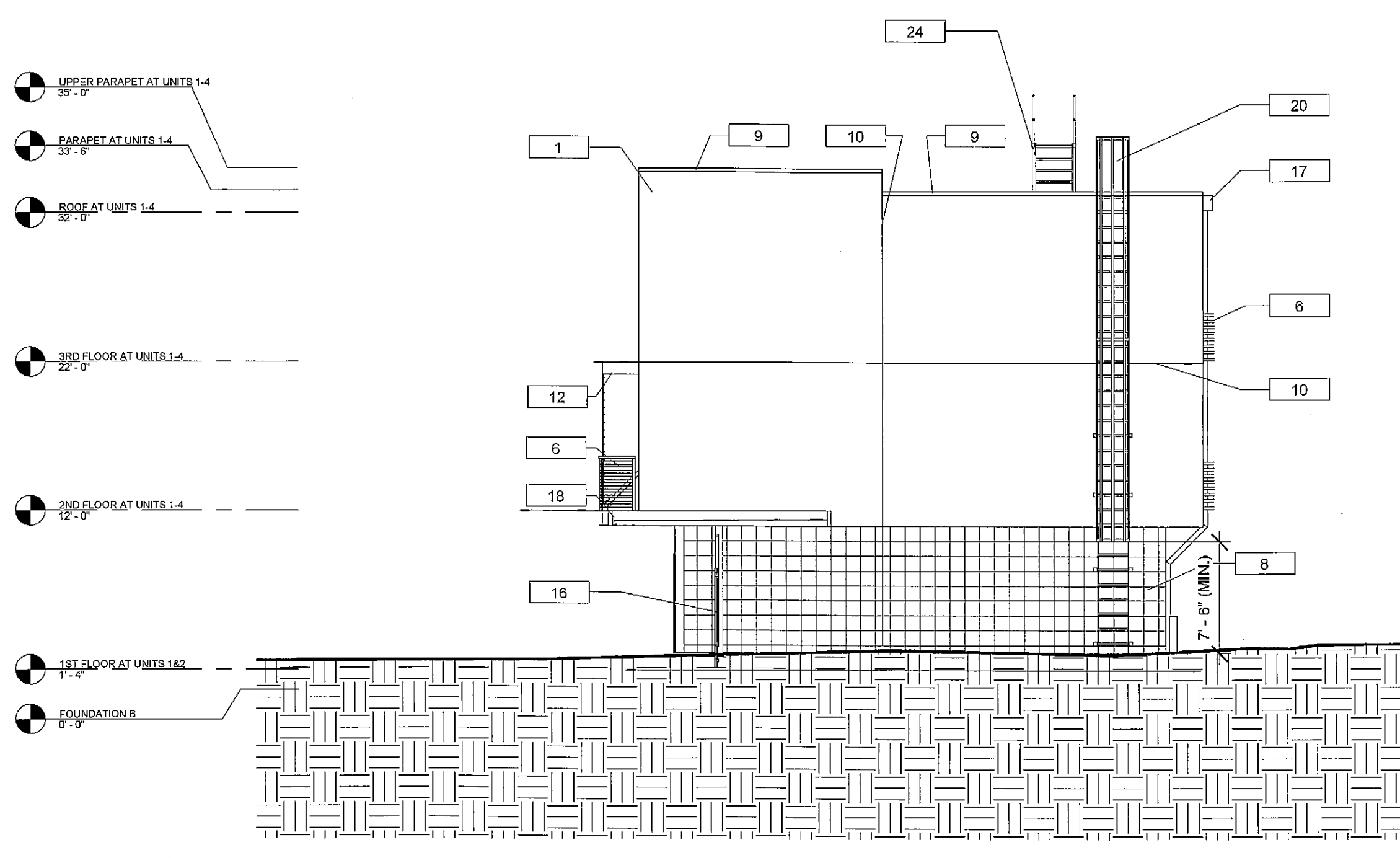
SEE GROUND  
FLOW PLAN

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JHUY  
CHECKED BY: PB  
SCALE: 1/8" = 1'-0"

**A4.01**



2 WEST ELEVATION - EXTERIOR HALL  
1/8" = 1'-0"



1 EAST ELEVATION - EXTERIOR HALL  
1/8" = 1'-0"

- 1 7/8" CEMENT PLASTER
- 2 7/8" CEMENT PLASTER STEEL TROWEL FINISH
- 3 ALUMINUM WINDOWS
- 4 SLIDING METAL DOOR
- 5 ALUMINUM PANEL COLOR TO MATCH ADJACENT WINDOW
- 6 PAINTED METAL RAILING
- 7 HM FRAME W/ SOLID CORE DOOR PAINTED
- 8 12" X 12" GRANITE TILE - GRANITE TILE FLAMED - VERDE UBATUBA
- 9 GSM FLASHING NOTE: ( ALL STUCCO SHALL BE CONCEALED WITHIN FLASHING)
- 10 3/8" "V" CONTROL JOINT
- 11 PAINTED METAL DECK
- 12 PAINTED METAL TRELLIS
- 13 ALUMINUM STOREFRONT WINDOWS
- 14 PAINTED METAL POLE
- 15 PAINTED METAL GARAGE DOORS
- 16 PAINTED METAL GATE
- 17 PAINTED METAL CONDUCTOR-HEAD & DRAIN PIPE
- 18 METAL FRAMED ROOF W/ TRANSPARENT COVERING
- 19 MAIL BOXES
- 20 ROOF ACCESS LADDER WITH CAGE TYP.
- 21 EXTERIOR LIGHT FIXTURE UNIT
- 22 UNIT ADDRESS SIGN
- 23 PROPERTY ADDRESS SIGN
- 24 PAINTED CATWALK
- 25 ACOUSTICAL VENT- PROVIDE THERMA-STOR FRESH 100 OR APPROVED EQUAL

NOTES:  
1. ALL WINDOWS THAT ARE NOT BAY WINDOW TYPE SHALL BE 2" RECESSED FROM FRONT OF FINISHED FACADE.

APPROVED  
CITY OF OAKLAND  
BUILDING SERVICES  
PLAN CHECK SECTION  
This plan complies with  
all applicable codes and ordinances.  
REVISIONS NEED APPROVAL

BUILDING CODE  
CITY OF OAKLAND  
SECTION 106.4.3  
SECTION 106.4.4  
SECTION 106.4.5  
SECTION 106.4.6  
SECTION 106.4.7  
SECTION 106.4.8  
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SECTION 106.4.97  
SECTION 106.4.98  
SECTION 106.4.99  
SECTION 106.4.100

ARCHITECTURE

**PHILIP BANTA & ASSOCIATES**

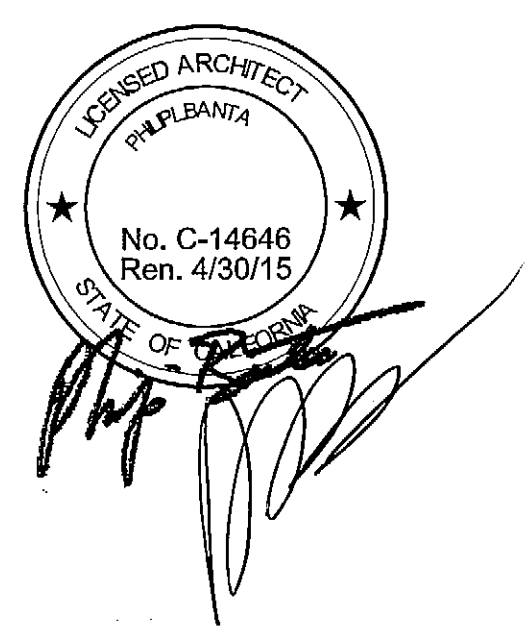
6550 HOLLIS STREET  
EMERYVILLE, CALIFORNIA 94609

TEL: 510.654.3255  
FAX: 510.654.3259  
www.philipbanta.com

REVISIONS:  ISSUES:

No.	Description	Date
1/	1ST PLAN CHECK REVIEW	01/14/14
1/	BUILDING PERMIT	12/12/13

PROJECT:  
**35th @ School**  
Oakland, CA 94619



SHEET DESCRIPTION:  
**EXTERIOR ELEVATIONS**

PROJECT NUMBER:	0714
DATE:	01/14/14
DRAWN BY:	JH/JY
CHECKED BY:	PB
SCALE:	1/8" = 1'-0"

**A4.02**

5th Floor Plan



ARCHITECTURE

# PHILIP BANTA & ASSOCIATES

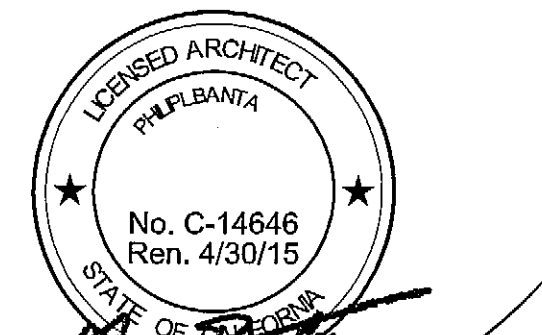
8050 HOLLISS STREET  
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FAX: 510.654.3256  
www.philipbanta.com

REVISIONS:  ISSUES:

No.	Description	Date
1	1ST PLAN CHECK REVIEW	01/14/14
2	BUILDING PERMIT	12/12/13

PROJECT: **35th @ School**  
Oakland, CA 94619

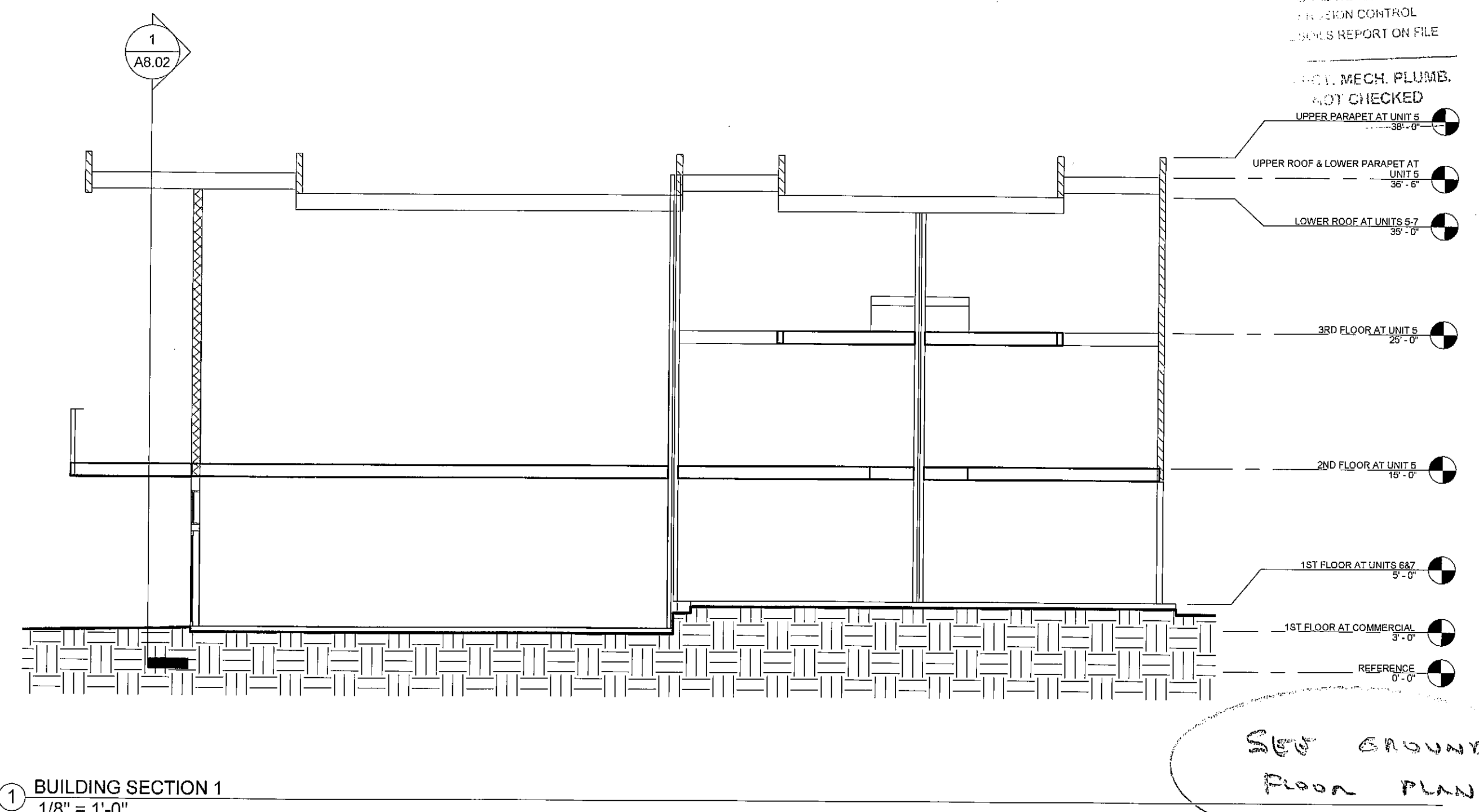
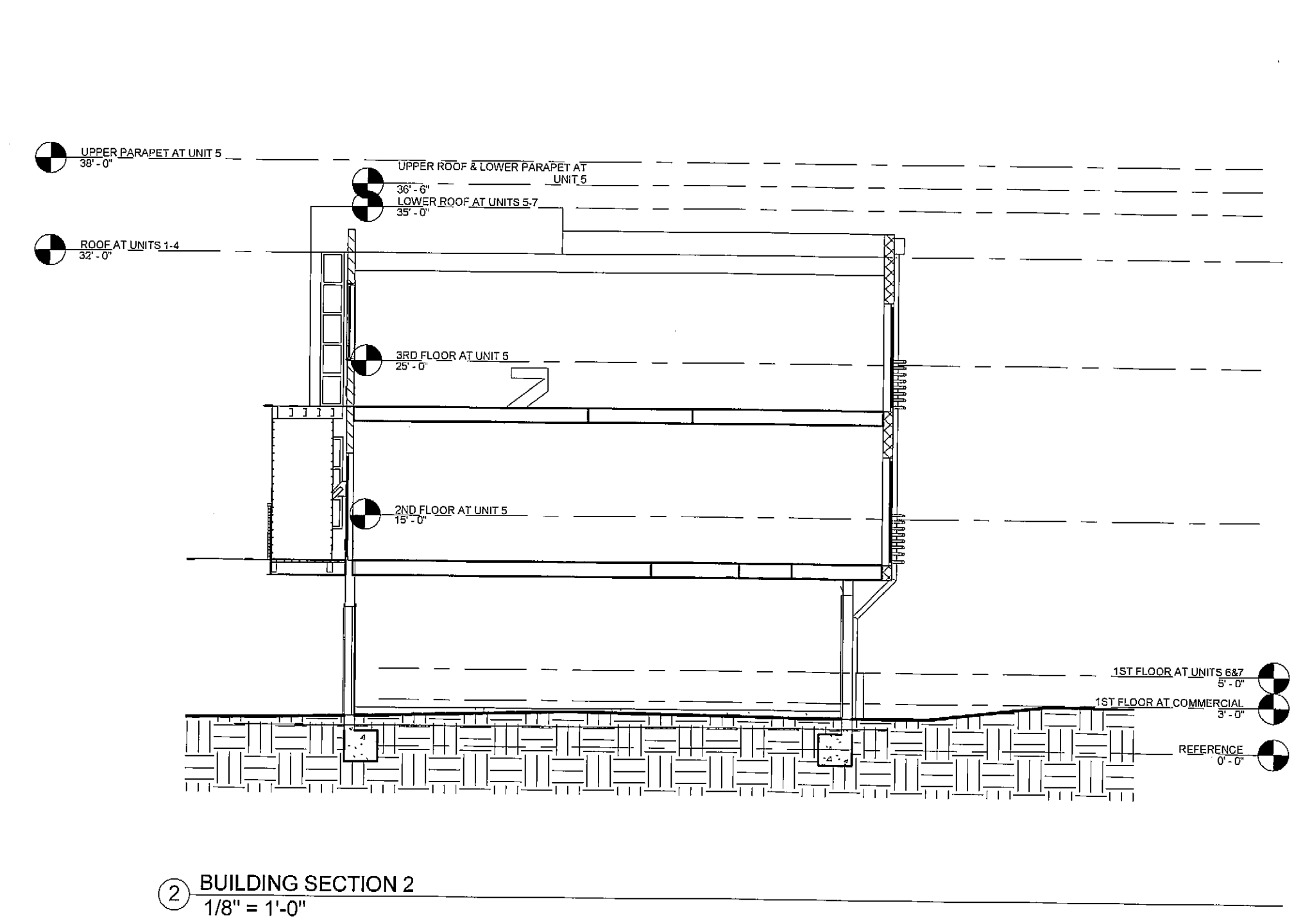
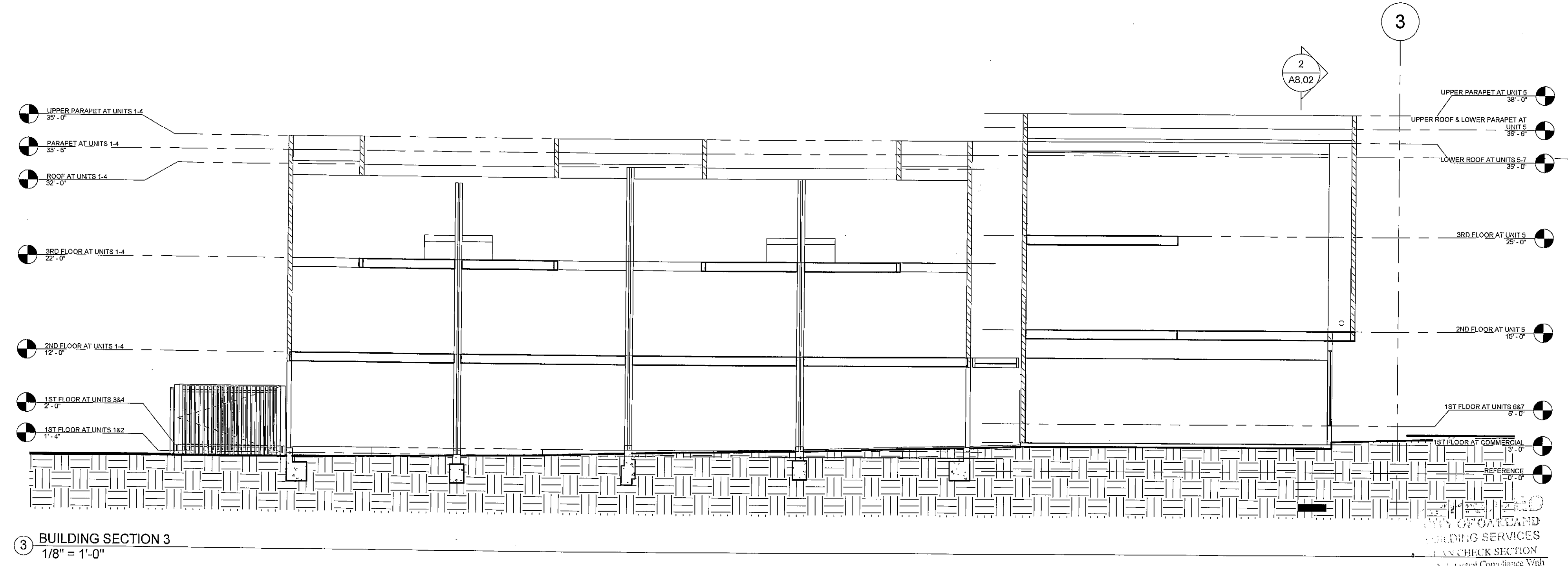


SHEET DESCRIPTION:  
**BUILDING SECTIONS**

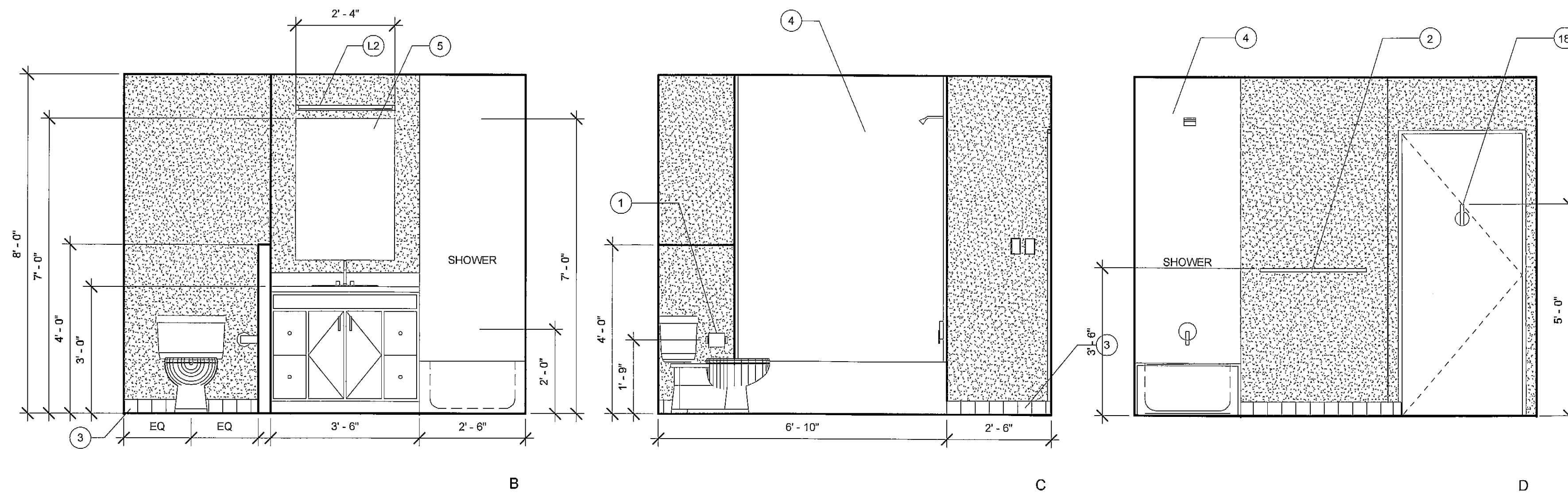
**APPLICANT COPY**

PROJECT NUMBER: 0714  
 DATE: 01/14/14  
 DRAWN BY: JH/JY  
 CHECKED BY: PB  
 SCALE: 1/8" = 1'-0"

**A5.00**

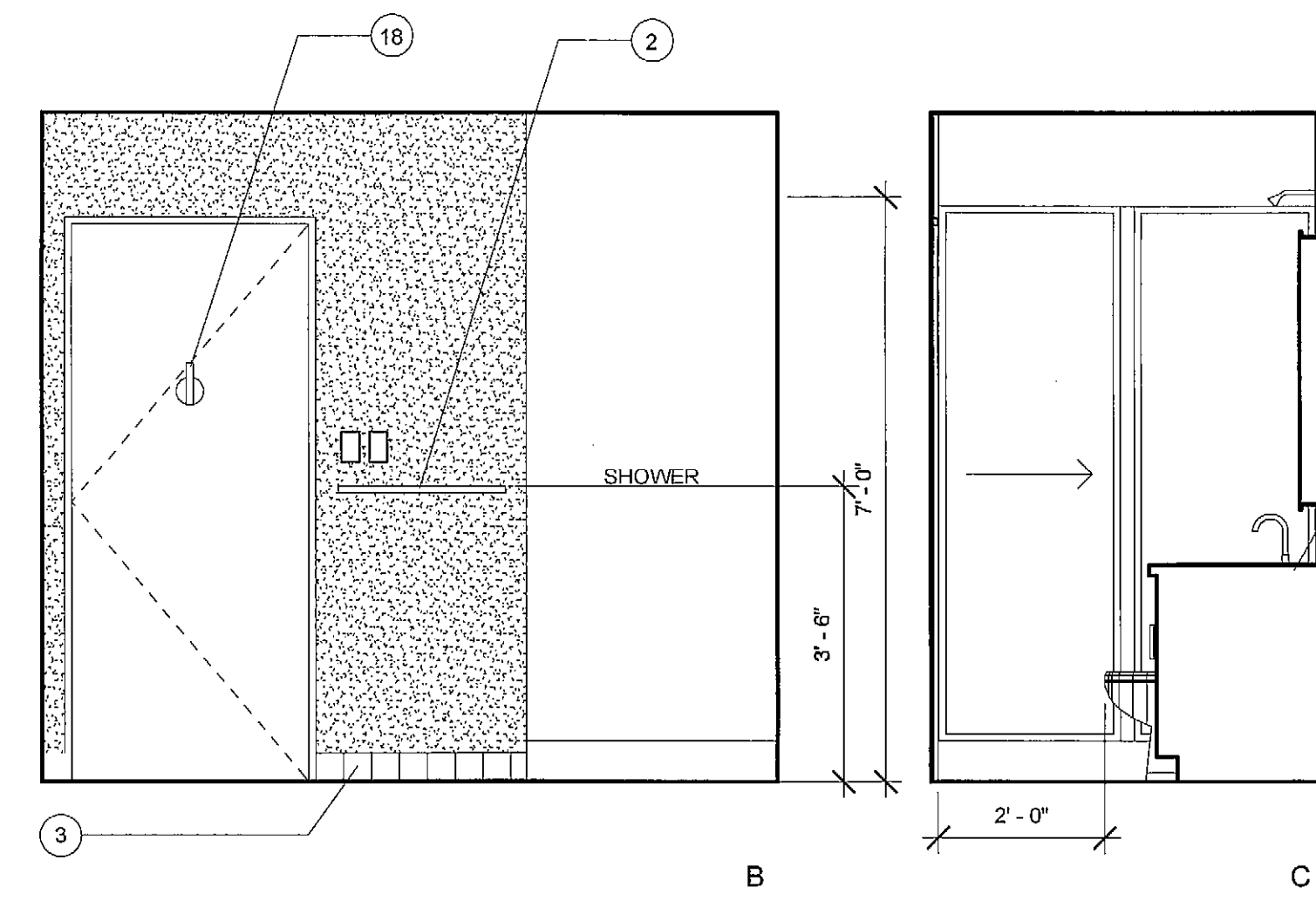


SEE GROUND FLOOR PLAN

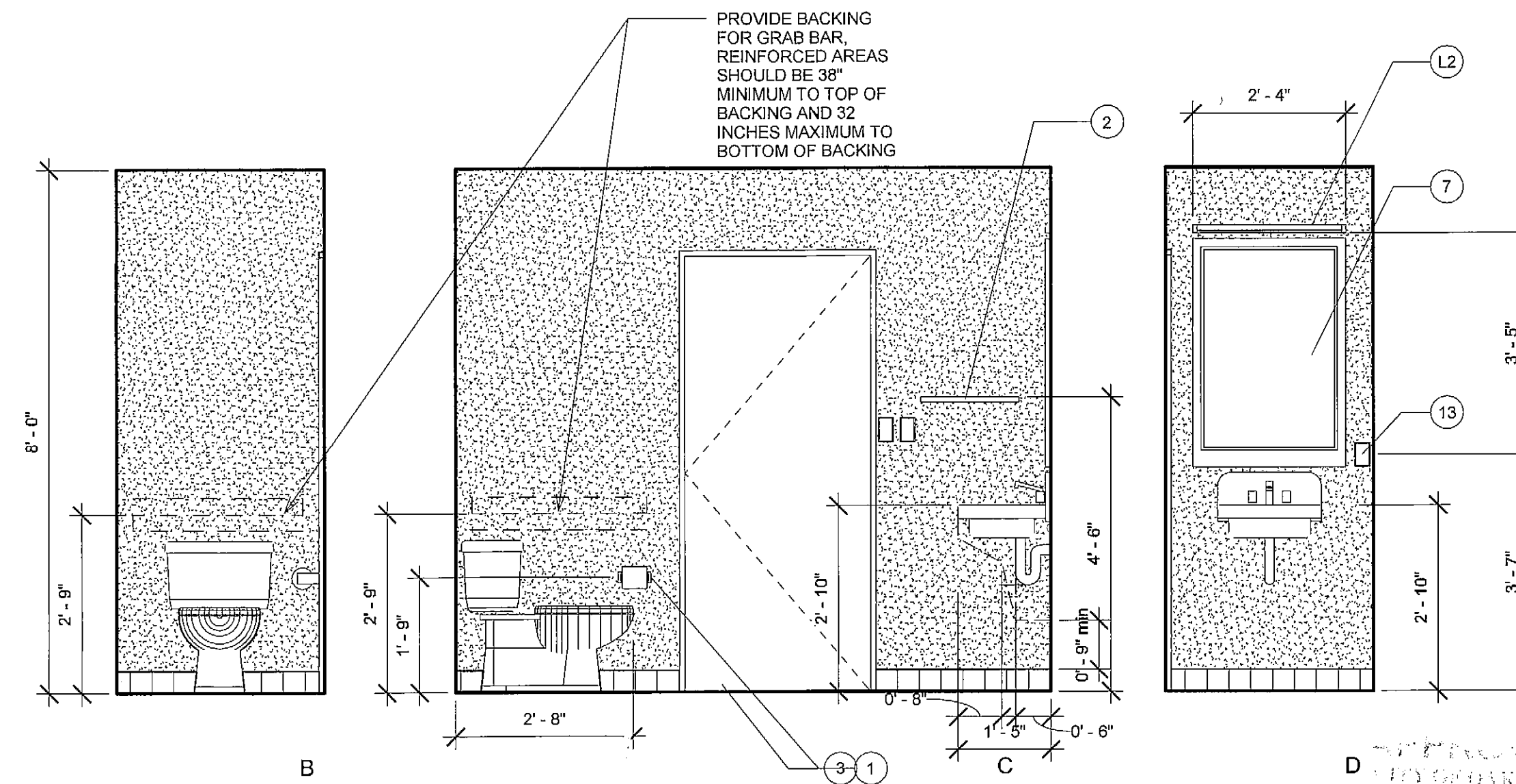


4 UNIT A - 3RD FLOOR - BATHROOM  
1/2" = 1'-0"

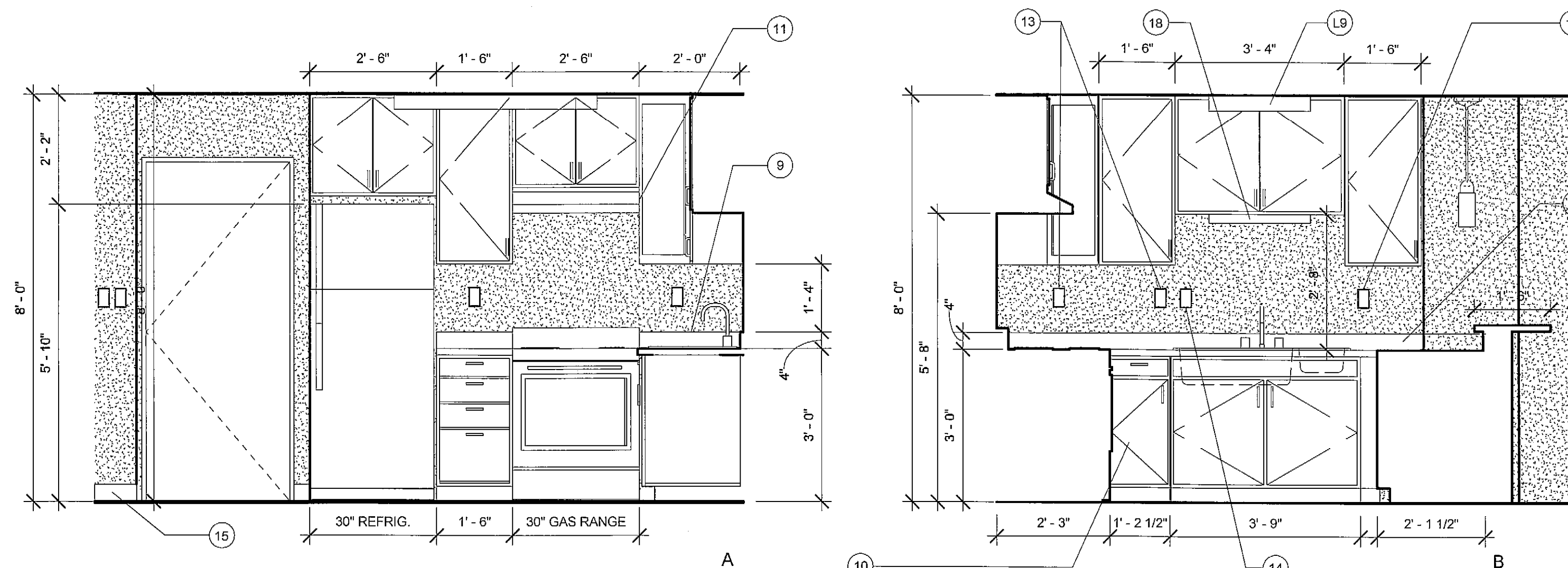
- |  |    |
|--|----|
| 1 RECESSED TOILET DISPENSER                        | 12 |
| 2 TOWEL RACK                                       | 13 |
| 3 6" CERAMIC TILE BASE                             | 14 |
| 4 FIBERGLASS TUB & SURROUND                        | 15 |
| 5 MIRROR W/ MEDICINE CABINET BEHIND (SEM-ENCLOSED) | 16 |
| 6  | 17 |
| 7 MIRROR   | 18 |
| 8 LIGHT FIXTURE                                    | 19 |
| 9 4" HIGH BACKSPASH MATCH COUNTER TOP MATERIAL     | 20 |
| 10 BASE CABINET W/ LAZY SUSAN                      | 21 |
| 11 KITCHEN HOOD                                    | 22 |
|  | 13 |
|  | 14 |
|  | 15 |
|  | 16 |
|  | 17 |
|  | 18 |
|  | 19 |
|  | 20 |
|  | 21 |
|  | 22 |



3 UNIT A - 2ND FLOOR - BATHROOM  
1/2" = 1'-0"



2 UNIT A - GND FLOOR - POWDER  
1/2" = 1'-0"



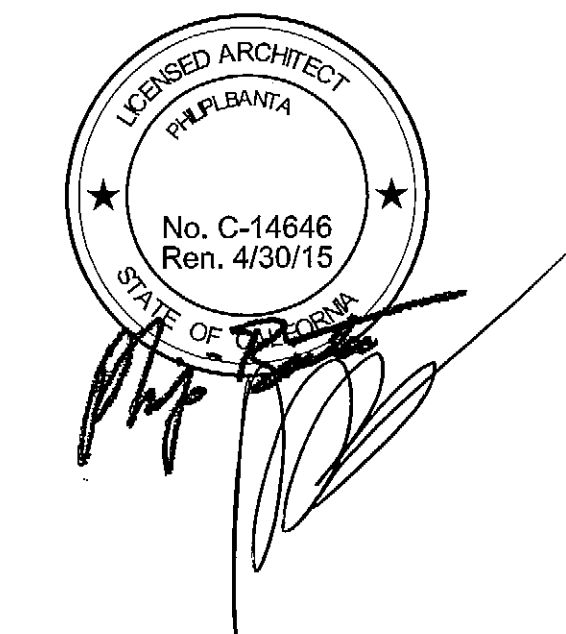
1 UNIT A - 2ND FLOOR - KITCHEN  
1/2" = 1'-0"

PHILIP BANTA & ASSOCIATES  
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WWW.PHILIPBANTA.COM

REVISIONS:  ISSUES:

No.	Description	Date
1	1ST PLAN CHECK REVIEW	01/14/14
1	BUILDING PERMIT	12/12/13

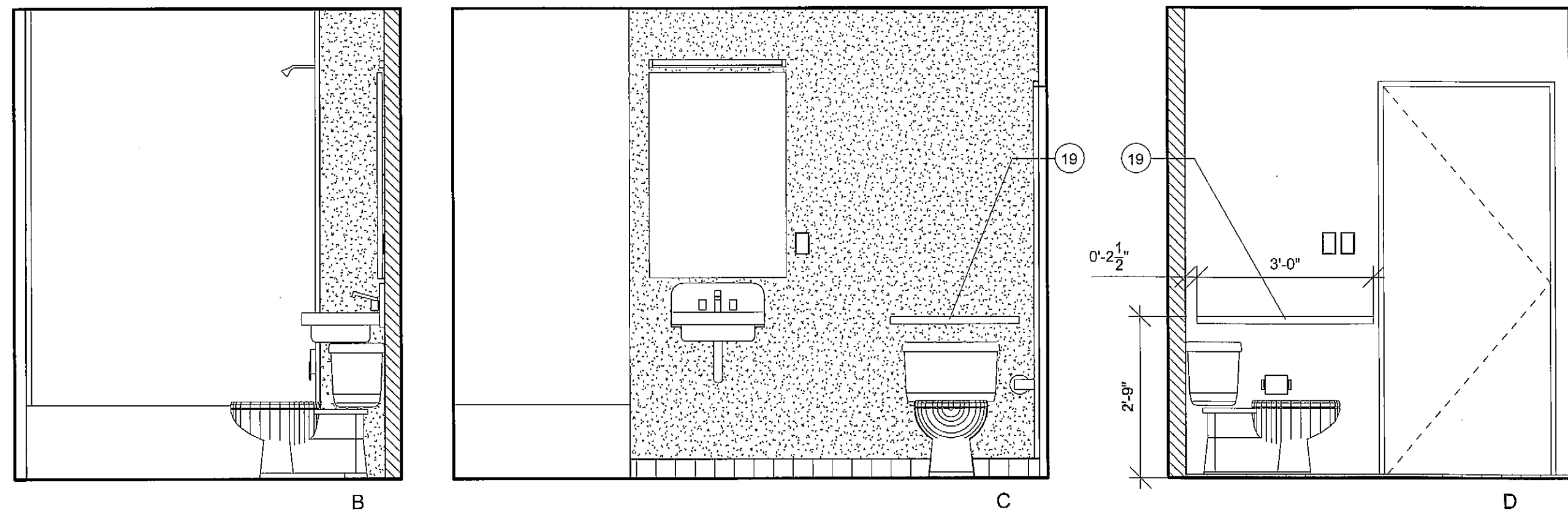
PROJECT:  
**35th @ School**  
Oakland, CA 94619



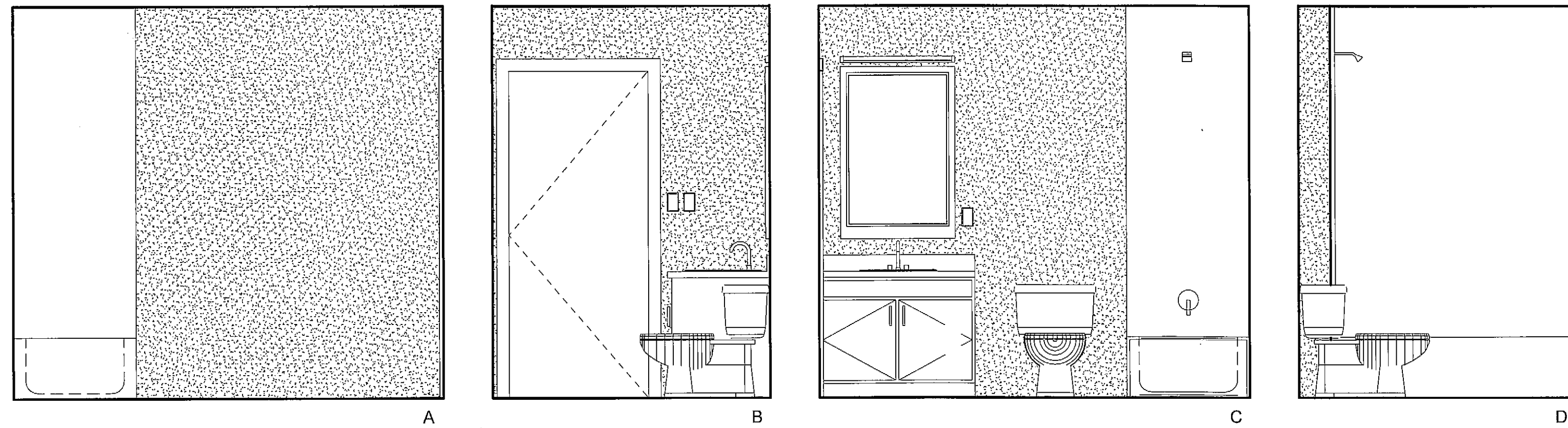
SHEET DESCRIPTION:  
**TYPE A INTERIOR ELEVATIONS**

PROJECT NUMBER:	0714
DATE:	01/14/14
DRAWN BY:	JH/JY
CHECKED BY:	PB
SCALE:	As indicated

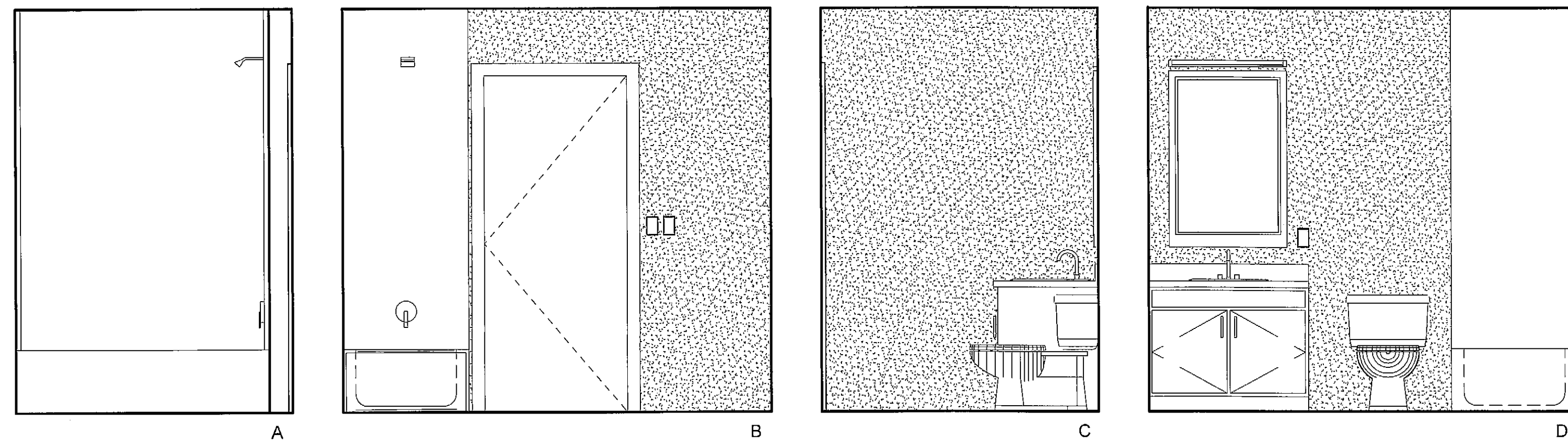
**A6.00**



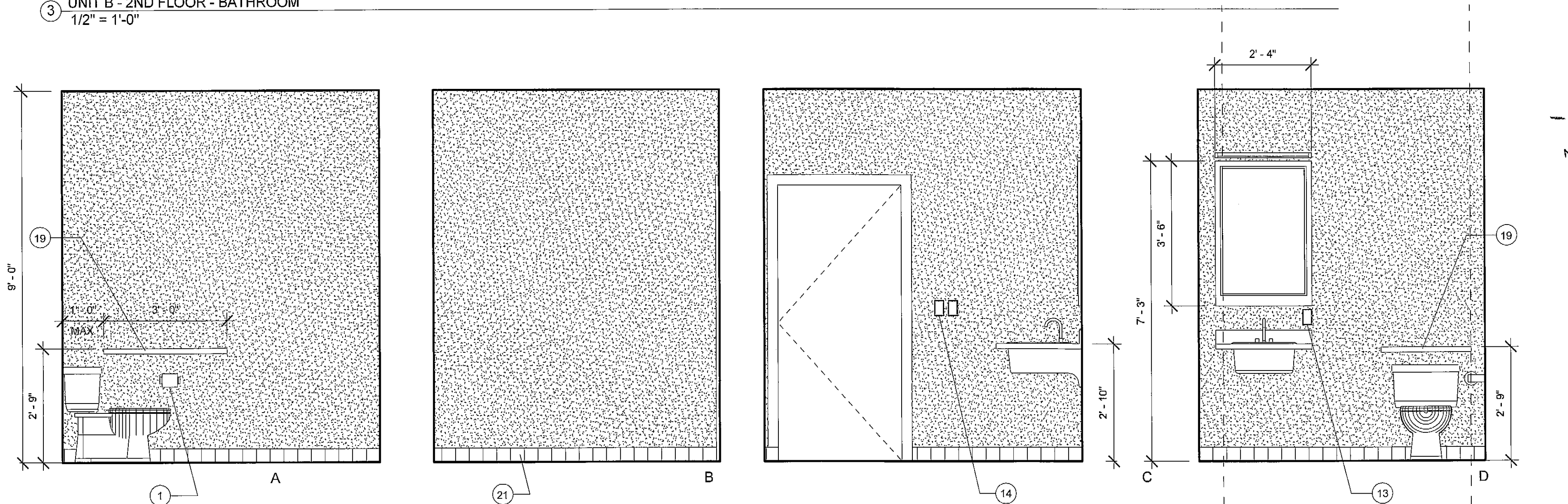
⑤ UNIT A3 - 1ST FLOOR - HANDICAP BATHROOM  
1/2" = 1'-0"



④ UNIT B - 3RD FLOOR - BATHROOMS (B304 & B308 SIM)  
1/2" = 1'-0"

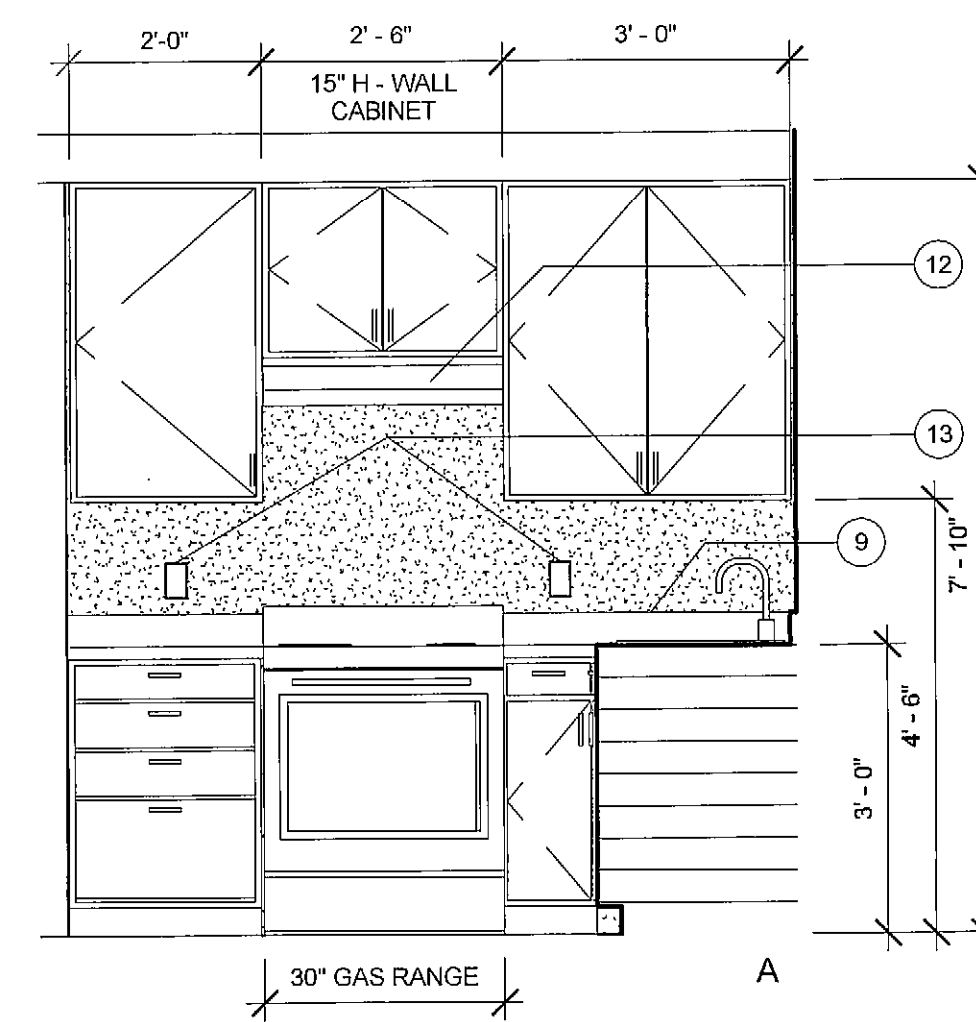
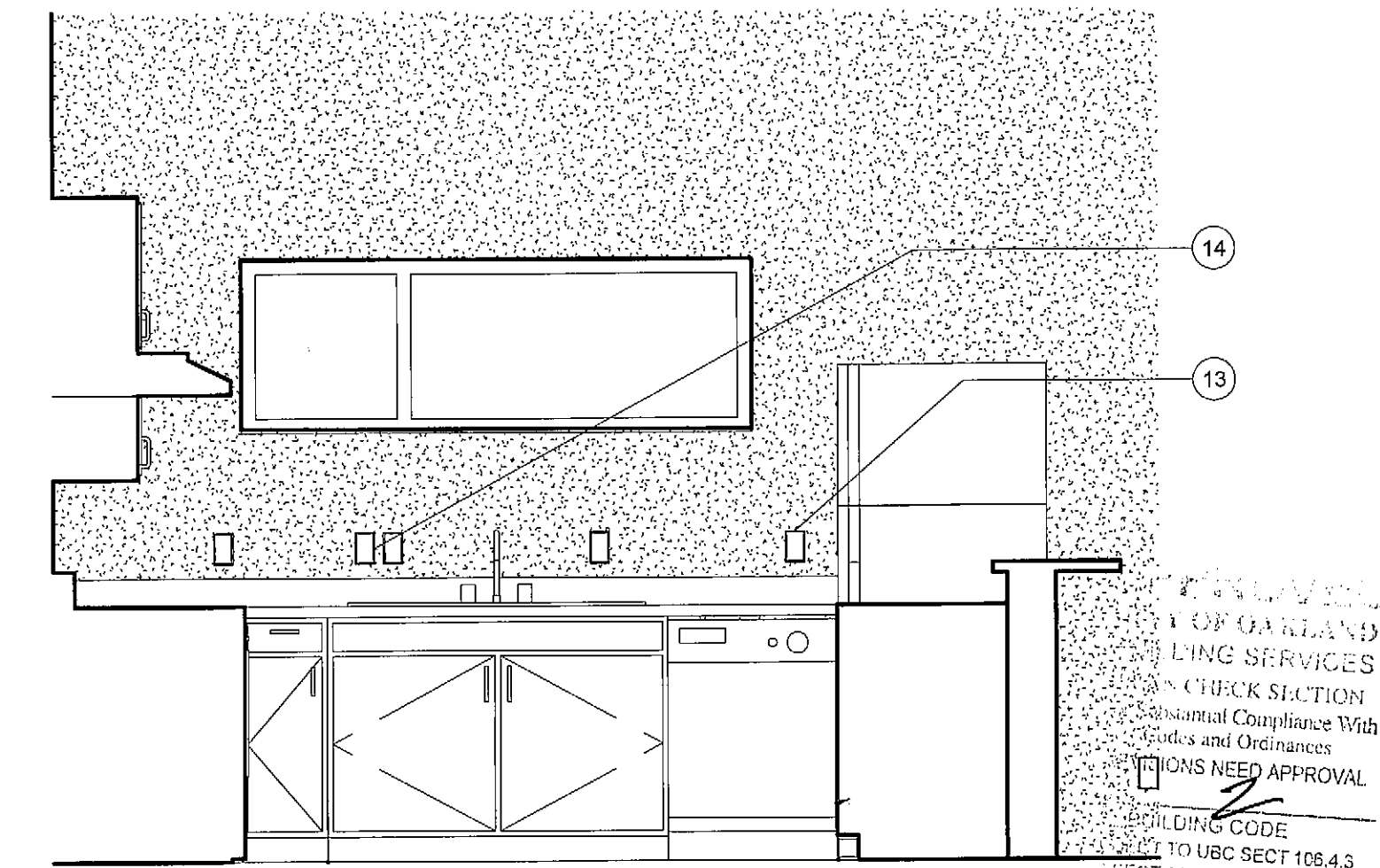
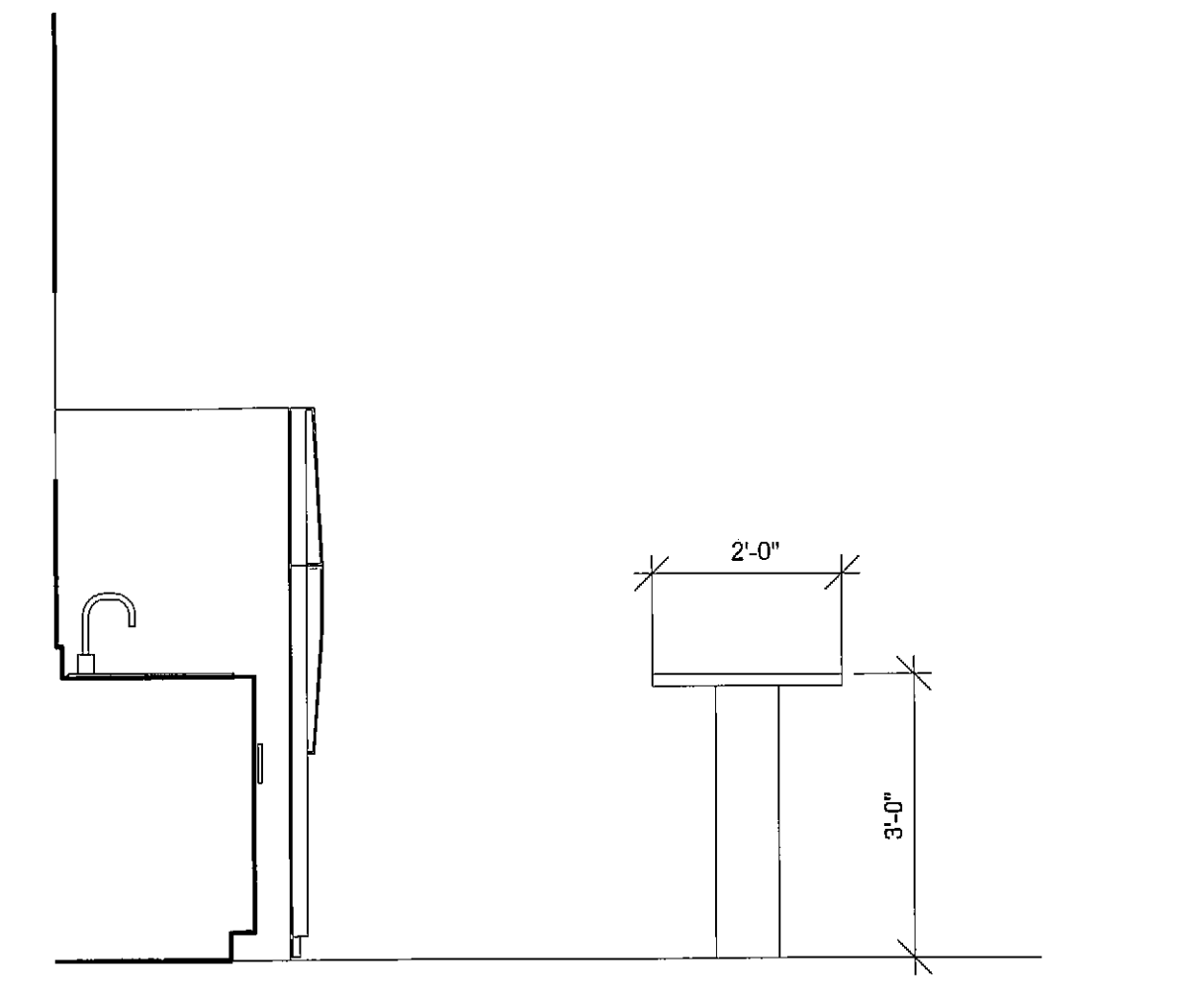


③ UNIT B - 2ND FLOOR - BATHROOM  
1/2" = 1'-0"



② UNIT B - GND FLOOR - ADA BATHROOM  
1/2" = 1'-0"

- |  |   |
|--|---|
| 1 RECESSED TOILET DISPENSER                        | 12 OUTLET   |
| 2 TOWEL RACK                                       | 13 SWITCH   |
| 3 6" CERAMIC TILE BASE                             | 14 PAINTED 1X6 BASE, TYP.   |
| 4 FIBERGLASS TUB & SURROUND                        | 15 COUNTERTOP & BAR TOP   |
| 5 MIRROR W/ MEDICINE CABINET BEHIND (SEM-ENCLOSED) | 16 FIBERGLASS SHOWER W/ 1/4" TEMP GLAZING WDW & SHOWER  |
| 6  | 17 ROBE HOOK  |
| 7 MIRROR   | 18 ADA COMPLIANT GRAB BAR   |
| 8 LIGHT FIXTURE                                    | 19 ONE PIECE ADA COMPLIANT LAVATORY   |
| 9 4" HIGH BACKSPLASH MATCH COUNTER TOP MATERIAL    | 20 CERAMIC TILE FLOORING MATERIAL TO ROLL UP VERTICALLY 6" @ WALL BASE PER SECTION S07.1 OF 1807 U.B.C. |
| 10 BASE CABINET W/ LAZY SUSAN                      | 21 6" TRIM W/ FLOURESCENT UPLIGHT BEYOND  |
| 11 KITCHEN HOOD                                    |   |



① UNIT B - 2ND FLOOR - KITCHEN  
1/2" = 1'-0"

- CBC SEC 12.10,  
NON-BURNING  
FINISH & BACKING  
REQUIRING FROM  
OCCUPANCY  
RESTROOM WALLS &  
FLOOR

SEAL OF ARCHITECT  
PHILIP BANTA  
No. C-14646  
Ren. 4/30/15  
STATE OF CALIFORNIA

ARCHITECTURE

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REVISIONS:  ISSUES:

No.	Description	Date
1	1ST PLAN CHECK REVIEW	01/14/14
1	BUILDING PERMIT	12/12/13

PROJECT: **35th @ School**  
Oakland, CA 94619

SHEET DESCRIPTION:  
**TYPE B INTERIOR ELEVATIONS**

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JH/JY  
CHECKED BY: PB  
SCALE: As indicated

**A6.01**

ARCHITECTURE

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REVISIONS:  ISSUES:

No.	Description	Date
(1)	1ST PLAN CHECK REVIEW	01/14/14
(1)	BUILDING PERMIT	12/12/13

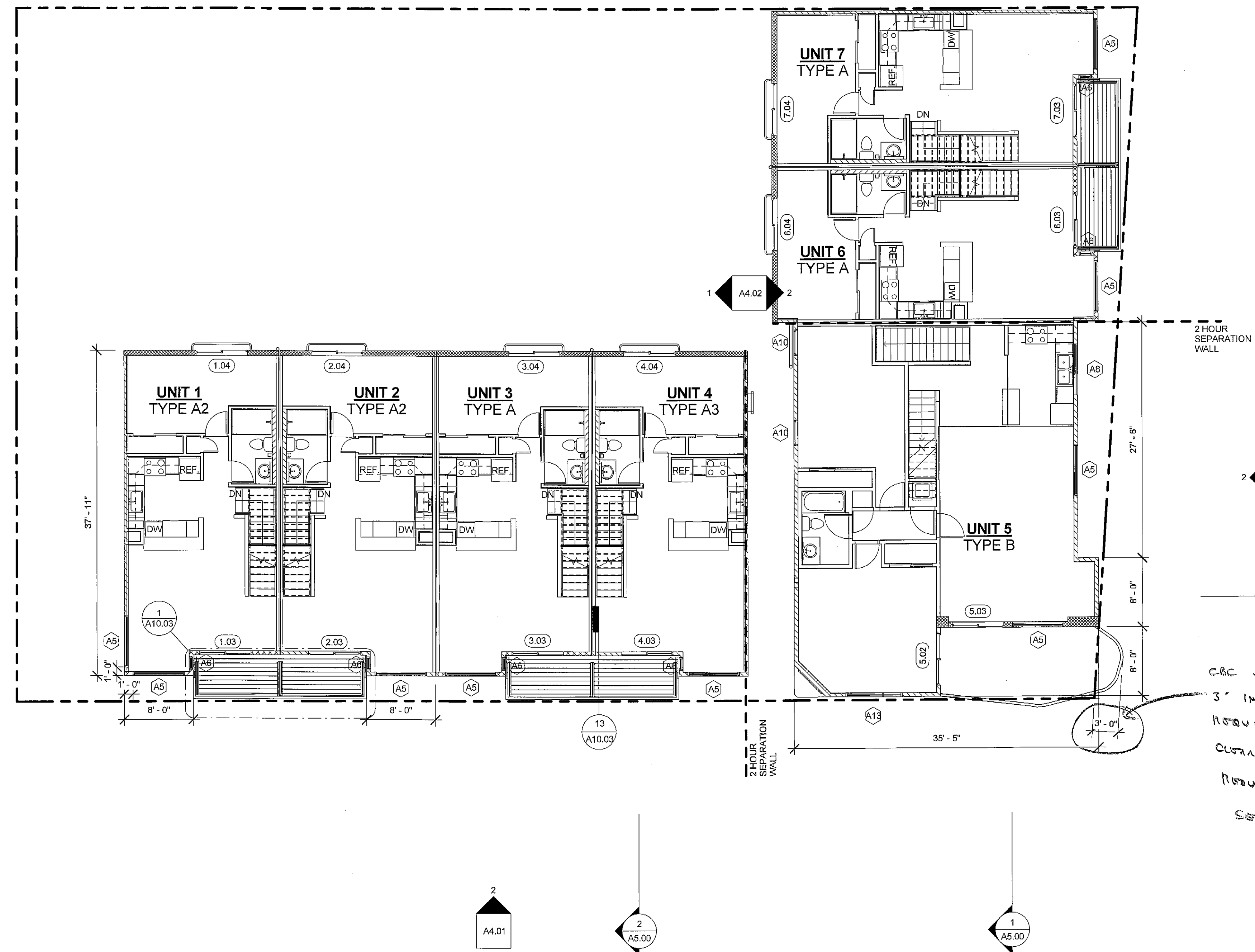
PROJECT: **35th @ School**  
Oakland, CA 94619



SHEET DESCRIPTION:  
**SECOND FLOOR PLAN**

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JH/JY  
CHECKED BY: PB  
SCALE: 1/8" = 1'-0"

**A1.02**



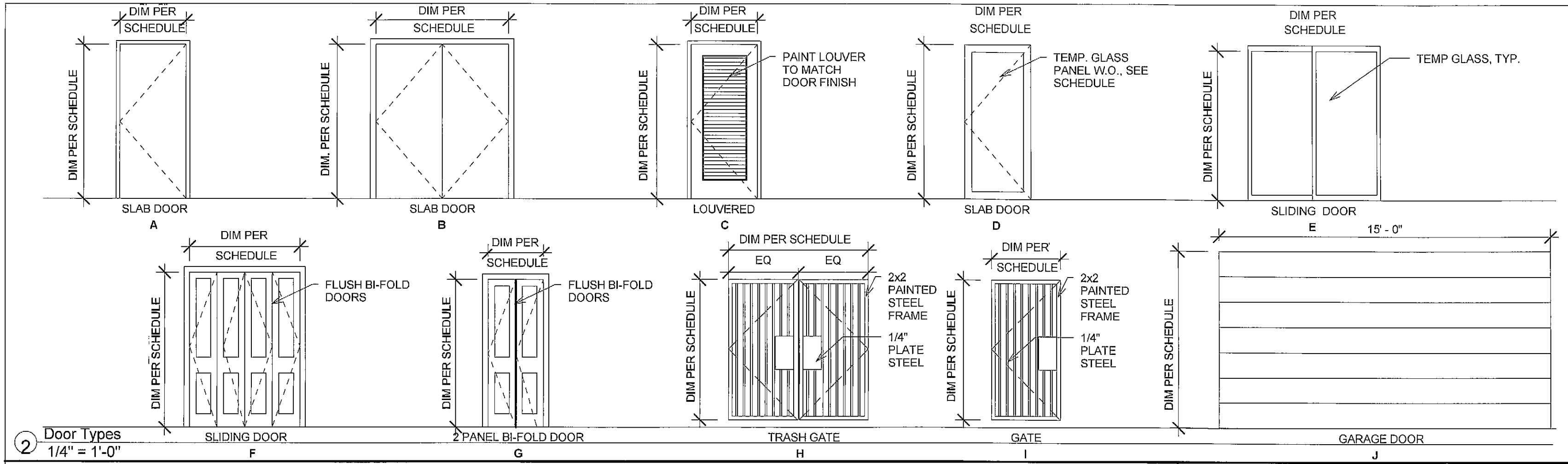
**APPROVED**  
CITY OF OAKLAND  
BUILDING SERVICES  
PLANNING SECTION  
FOR COMPLIANCE WITH  
CITY AND ORDINANCES  
REVISIONS NEED APPROVAL  
PLANNING CODE  
SECTION 16.01.03  
KEY REVIEW ONLY  
PLAN REVIEW  
LAYOUT  
CONTROL  
REPORT ON FILE  
NOT CHECKED

CBC SEC 3202.3.2  
3' INTO THE PUBLIC R/W  
REQUIRES MIN 11' OF VERTICAL  
CLEARANCE, IF LESS THAN 11',  
REDUCE TO COMPLY W/ CBC  
SEE 3202.3.2

1 2ND FLOOR AT UNITS 1-4  
1/8" = 1'-0"

BUILDING PLAN LEGEND	
	PLANTING AREA
	FINISH FLOOR ELEVATION 0'-0" SET AT 160'-0" PER SURVEY
	2x4 STUD WALL - SEE SHEET A9.0
	2x6 STUD WALL - SEE SHEET A9.0
	2x8 STUD WALL - SEE SHEET A9.0
	CONCRETE

BUILDING PLAN NOTES			
1.	REFER TO SHEET A9.00 FOR ASSEMBLY NOTES.	7.	REFER TO A2 SERIES FOR UNIT DIMENSIONS, DOOR AND WINDOW TAGS AND PARTITION INFORMATION
2.	REFER TO SHEETS A7.00 FOR DOOR SCHEDULES AND NOTES	8.	ALL DIMENSIONS TO FACE OF STUD, U.N.O.
3.	REFER TO SHEETS A7.01 FOR WINDOW SCHEDULE AND NOTES	9.	
4.	REFER TO SHEETS OF A10.00 SERIES FOR WATERPROOFING DETAILS	10.	
5.	REFER TO SHEET A0.05 FOR ACCESSIBILITY DETAILS AND REQUIREMENTS		
6.	REFER TO SHEET A9.00 FOR WALL TYPE ASSEMBLIES.		



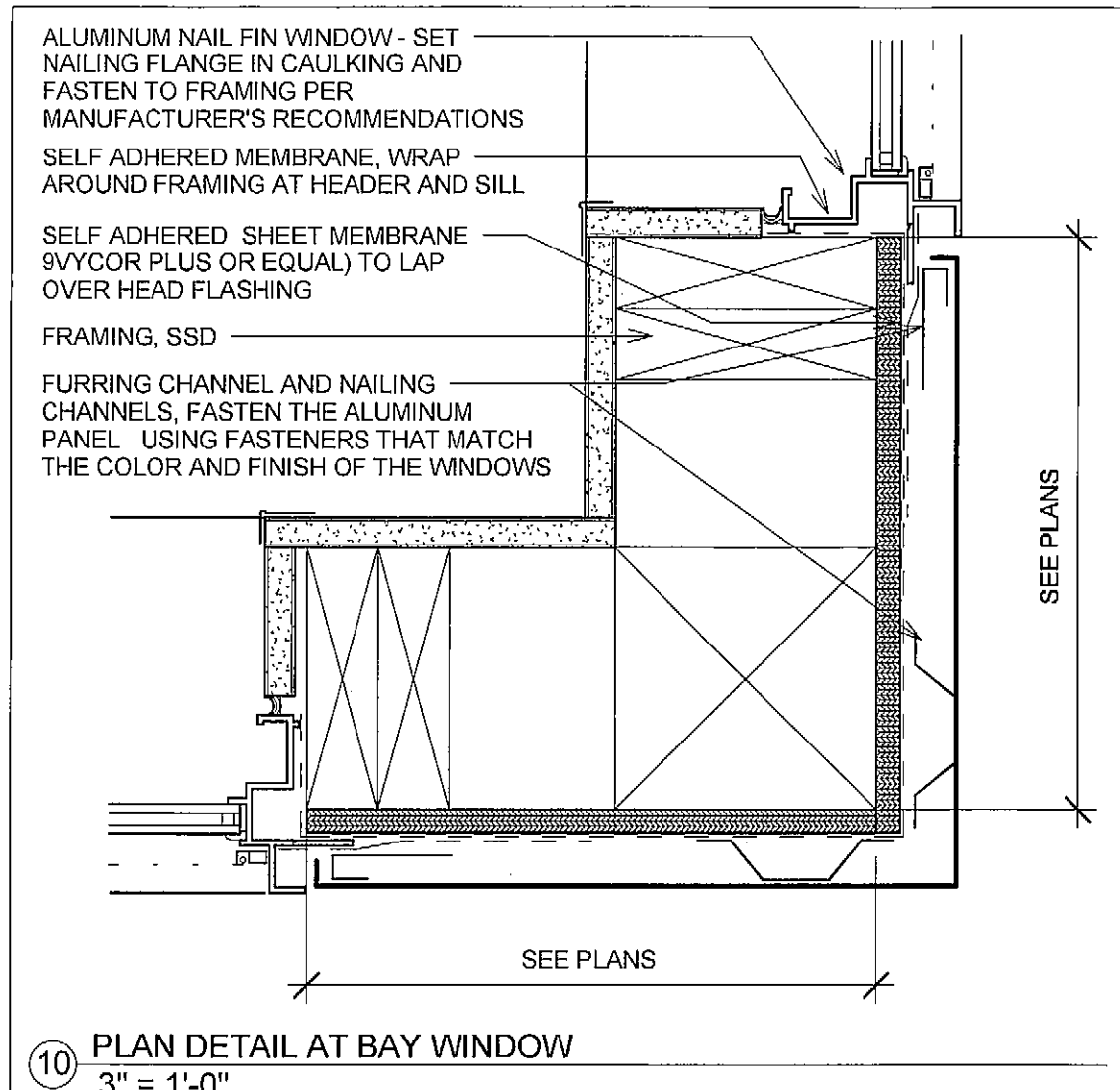
Mark	Type	Description	Width	Height	Finish	Frame	Jamb	Head	Comments
1.01	A	ENTRY 7'-6"	3'-0"	7'-8"	PTD	HM	2/A7.02	1/A7.02	HW1, 1.5, 12, 15
1.02	J	GARAGE 8'-8"	15'-0"	8'-8"	PTD	HM			
1.03	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL		5/A7.02	HW2
1.04	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL			HW2
1.05	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL			HW2
2.01	A	ENTRY 7'-6"	3'-0"	7'-8"	PTD	HM	2/A7.02	1/A7.02	HW1, 1.5, 12, 15
2.02	J	GARAGE 8'-8"	15'-0"	8'-8"	PTD	HM			
2.03	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL		5/A7.02	HW2
2.04	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL			HW2
2.05	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL			HW2
3.01	A	ENTRY 7'-0"	3'-0"	7'-0"	CLR	AL	2/A7.02	5/A7.02	HW1, 1.5, 12, 15
3.02	J	GARAGE 8'-0"	15'-0"	8'-0"	PTD	HM			
3.03	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL		5/A7.02	HW2
3.04	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL			HW2
3.05	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL			HW2
3.19	F	CLOSET 5'-0"	5'-0"	7'-0"					
3.19	F	CLOSET 5'-0"	5'-0"	7'-0"					
3.26	A	UTILITY 7'-0"	3'-0"	7'-0"	PTD	HM		1/A7.02	3/4 HOUR FIRE RATED
4.01	A	ENTRY 7'-0"	3'-0"	7'-0"	PTD	HM	2/A7.02	1/A7.02	HW1, 1.5, 12, 15
4.02	J	GARAGE 8'-0"	15'-0"	8'-0"	PTD	HM			
4.03	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL		5/A7.02	HW2
4.04	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL			HW2
4.05	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL			HW2
5.01	A	ENTRY 7'-0"	3'-0"	7'-0"	PTD	HM	2/A7.02	1/A7.02	HW1, 1.5, 12, 15, 3/4 HOUR FIRE RATED DOOR
5.02	E	BALCONY 8'-0"	6'-0"	8'-0"	CLR	AL		5/A7.02	HW2
5.03	E	BALCONY 8'-0"	6'-0"	8'-0"	CLR	AL			HW2
5.04	A	ENTRY 7'-0"	3'-0"	7'-0"	PTD	HM	2/A7.02	1/A7.02	HW1, 1.5, 12, 15
5.02	J	GARAGE 8'-0"	15'-0"	8'-0"	PTD	HM			
6.03	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL		5/A7.02	HW2
6.04	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL			HW2
6.05	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL			HW2
7.01	A	ENTRY 7'-0"	3'-0"	7'-0"	PTD	HM	2/A7.02	1/A7.02	HW1, 1.5, 12, 15
7.02	J	GARAGE 8'-0"	15'-0"	8'-0"	PTD	HM			
7.03	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL		5/A7.02	HW2
7.04	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL			HW2
7.05	E	BALCONY 7'-0"	6'-0"	7'-0"	CLR	AL			HW2
A1.0	A	GARAGE (RATED) 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.1	A	GARAGE (RATED) 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.2	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.3	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.4	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.5	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.6	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.7	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.8	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.9	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.10	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.11	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.12	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.13	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.14	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.15	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.16	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.17	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.18	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.19	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.20	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.21	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.22	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.23	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.24	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.25	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.26	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.27	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.28	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.29	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.30	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.31	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.32	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.33	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.34	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.35	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.36	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.37	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.38	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.39	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.40	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.41	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.42	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.43	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.44	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.45	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.46	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.47	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.48	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.49	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.50	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.51	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.52	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	
A1.53	A	INTERIOR DOOR 34"	2'-10"	6'-8"	PTD	WD	3/A7.02	HW3	

COMMENT NOTES

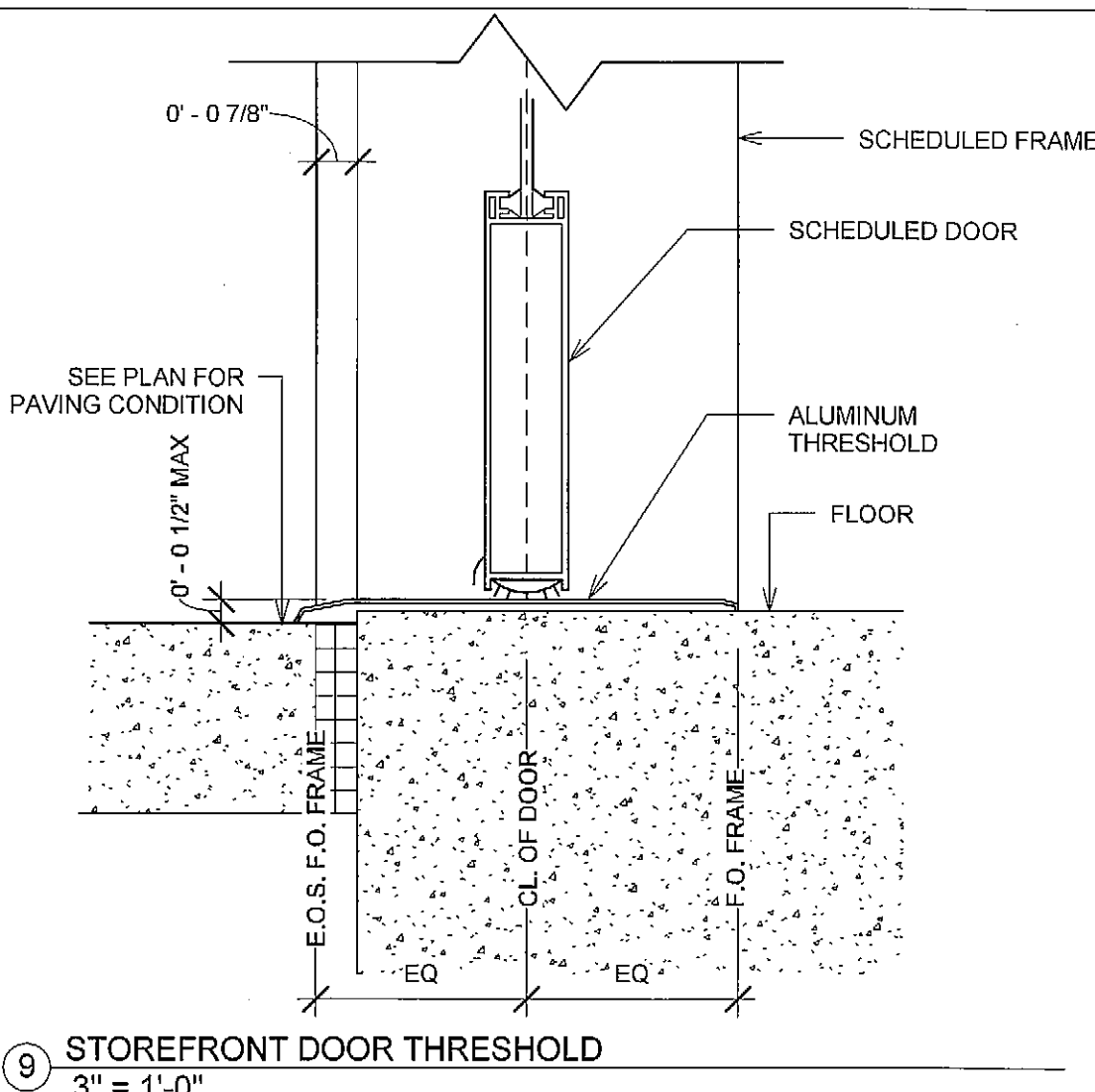
1. SELF-CLOSING
2. CARD READER
3. MAGNETIC HOLD-OPEN. WIRE TO LIFE SAFETY SYSTEM
4. SEE GATE DETAILS FOR DESIGN
5. SMOKE SEALS AT HEAD AND JAMB
6. SECURITY CONTACT
7. KNOWN BOX FOR FIRE DEPT. KEY ACCESS
8. ACCESS TO ROOF.
9. LOUVER. SEE MECHANICAL FOR FIRE AREA
10. STAIRWAY IDENTIFICATION SIGNAGE PER XXXX
11. PRIVACY LOCK
12. REEF HOLE VIEWER
13. CASD OPENING
14. ACCESSIBLE RESTROOM SIGNAGE PER XXXX
15. UNIT IDENTIFICATION SIGNAGE PER XXXX
16. FINISH HARDWARE
17. PANIC TO MATCH THE WINDOW SYSTEM
18. STAIN OR PAINT COLOR AND SEALER PER INTERIOR DESIGN

Room Number	Room Name	Level	Area	Floor	Base	Finish	Wall	Ceiling	Comments
A100	ENTRY	UnitPlan-UnitA-1st Floor	87 SF	Lam. WD	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A101	ENTRY	UnitPlan-UnitA-1st Floor	87 SF	Lam. WD	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A102	ENTRY	UnitPlan-UnitA-1st Floor	87 SF	Lam. WD	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A103	GARAGE	UnitPlan-UnitA-1st Floor	335 SF	Sealed Conc.	None	PTD, Gyp. Bd.	PTD, Gyp. Bd.	PTD, Gyp. Bd.	
A104	GARAGE	UnitPlan-UnitA-1st Floor	258 SF	Sealed Conc.	None	PTD, Gyp. Bd.	PTD, Gyp. Bd.	PTD, Gyp. Bd.	
A105	GARAGE	UnitPlan-UnitA-1st Floor	335 SF	Sealed Conc.	None	PTD, Gyp. Bd.	PTD, Gyp. Bd.	PTD, Gyp. Bd.	
A106	BEDROOM	UnitPlan-UnitA-1st Floor	105 SF	Carpet	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A107	OFFICE	UnitPlan-UnitA-1st Floor	85 SF	Carpet	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A108	OFFICE	UnitPlan-UnitA-1st Floor	85 SF	Carpet	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A109	BATHROOM	UnitPlan-UnitA-1st Floor	61 SF	Cer. Tile	6" Tile	PTD, Gyp. Bd.	PTD, Gyp. Bd.	PTD, Gyp. Bd.	
A110	POWDER	UnitPlan-UnitA-1st Floor	27 SF	Cer. Tile	6" Tile	PTD, Gyp. Bd.	PTD, Gyp. Bd.	PTD, Gyp. Bd.	
A111	POWDER	UnitPlan-UnitA-1st Floor	27 SF	Cer. Tile	6" Tile	PTD, Gyp. Bd.	PTD, Gyp. Bd.	PTD, Gyp. Bd.	
A112	BEDROOM 1	UnitPlan-UnitA-2nd Floor	140 SF	Carpet	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A113	BEDROOM 1	UnitPlan-UnitA-2nd Floor	140 SF	Carpet	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A114	LIVING / DINING	UnitPlan-UnitA-2nd Floor	303 SF	Lam. WD	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A115	LIVING / DINING	UnitPlan-UnitA-2nd Floor	303 SF	Lam. WD	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A116	BATH	UnitPlan-UnitA-2nd Floor	41 SF	Cer. Tile	6" Tile	PTD, Gyp. Bd.	PTD, Gyp. Bd.	PTD, Gyp. Bd.	
A117	BATH	UnitPlan-UnitA-2nd Floor	41 SF	Cer. Tile	6" Tile	PTD, Gyp. Bd.	PTD, Gyp. Bd.	PTD, Gyp. Bd.	
A118	KITCHEN	UnitPlan-UnitA-2nd Floor	81 SF	Lam. WD	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A119	KITCHEN	UnitPlan-UnitA-2nd Floor	81 SF	Lam. WD	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A120	CLOSET	Not Placed							
A121	CLOSET	Not Placed							
A122	CLOSET	Not Placed							
A123	CLOSET	UnitPlan-UnitA-2nd Floor	13 SF						
A124	CLOSET	UnitPlan-UnitA-2nd Floor	13 SF						
A125	HALL	UnitPlan-UnitA-3rd Floor	57 SF	Lam. WD	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A126	HALL	UnitPlan-UnitA-3rd Floor	57 SF	Lam. WD	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A127	BEDROOM 2	UnitPlan-UnitA-3rd Floor	175 SF	Carpet	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A128	BEDROOM 2	UnitPlan-UnitA-3rd Floor	175 SF	Carpet	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A129	BATH	UnitPlan-UnitA-3rd Floor	68 SF	Cer. Tile	6" Tile	PTD, Gyp. Bd.	PTD, Gyp. Bd.	PTD, Gyp. Bd.	
A130	BATH	UnitPlan-UnitA-3rd Floor	68 SF	Cer. Tile	6" Tile	PTD, Gyp. Bd.	PTD, Gyp. Bd.	PTD, Gyp. Bd.	
A131	BEDROOM 3	UnitPlan-UnitA-3rd Floor	114 SF	Carpet	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.	
A132	BEDROOM 3	UnitPlan-UnitA-3rd Floor	114 SF	Carpet	PTD	PTD	Gyp. Bd.	PTD, Gyp. Bd.</	

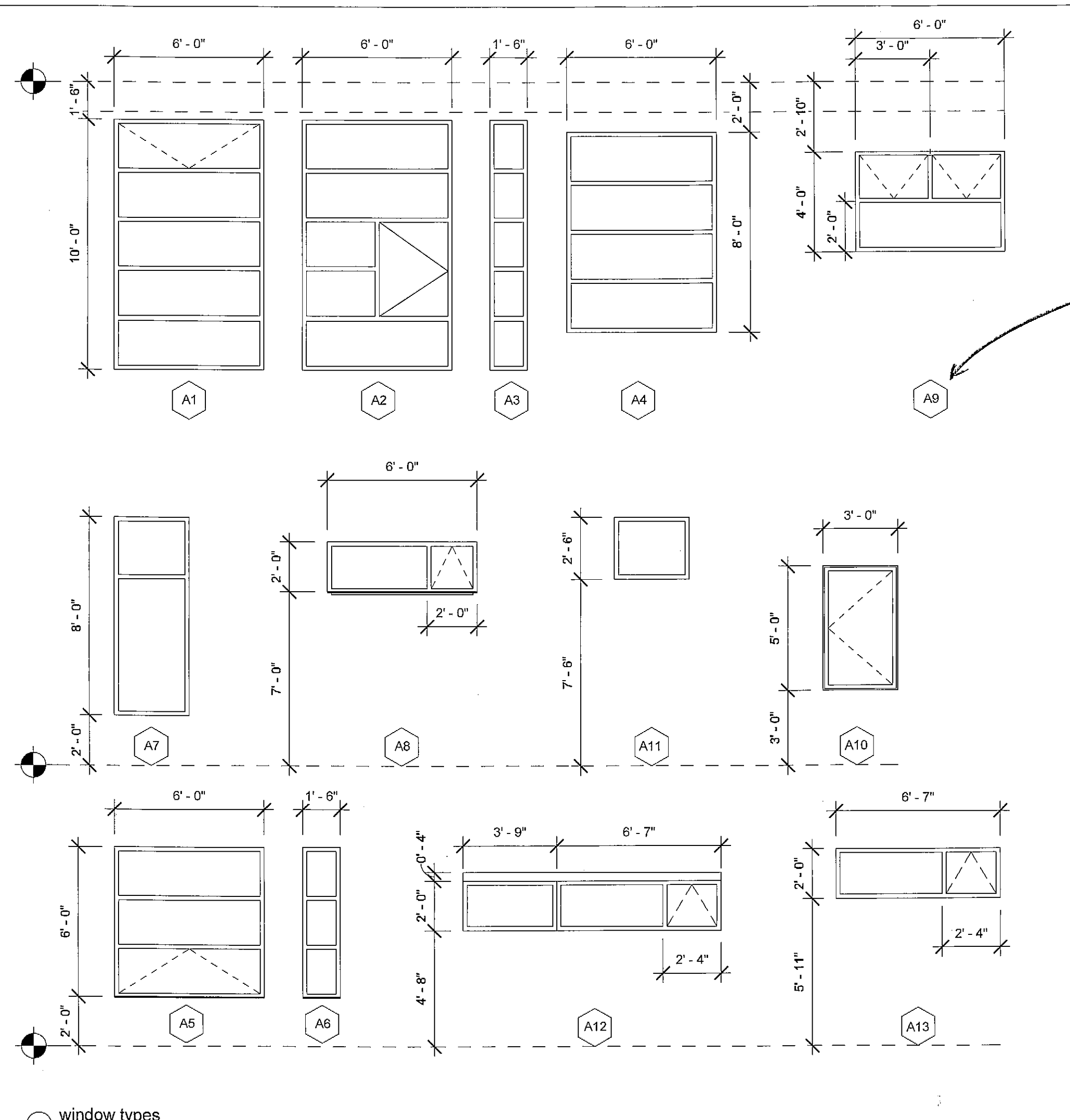




10 PLAN DETAIL AT BAY WINDOW  
3" = 1'-0"



9 STOREFRONT DOOR THRESHOLD  
3" = 1'-0"

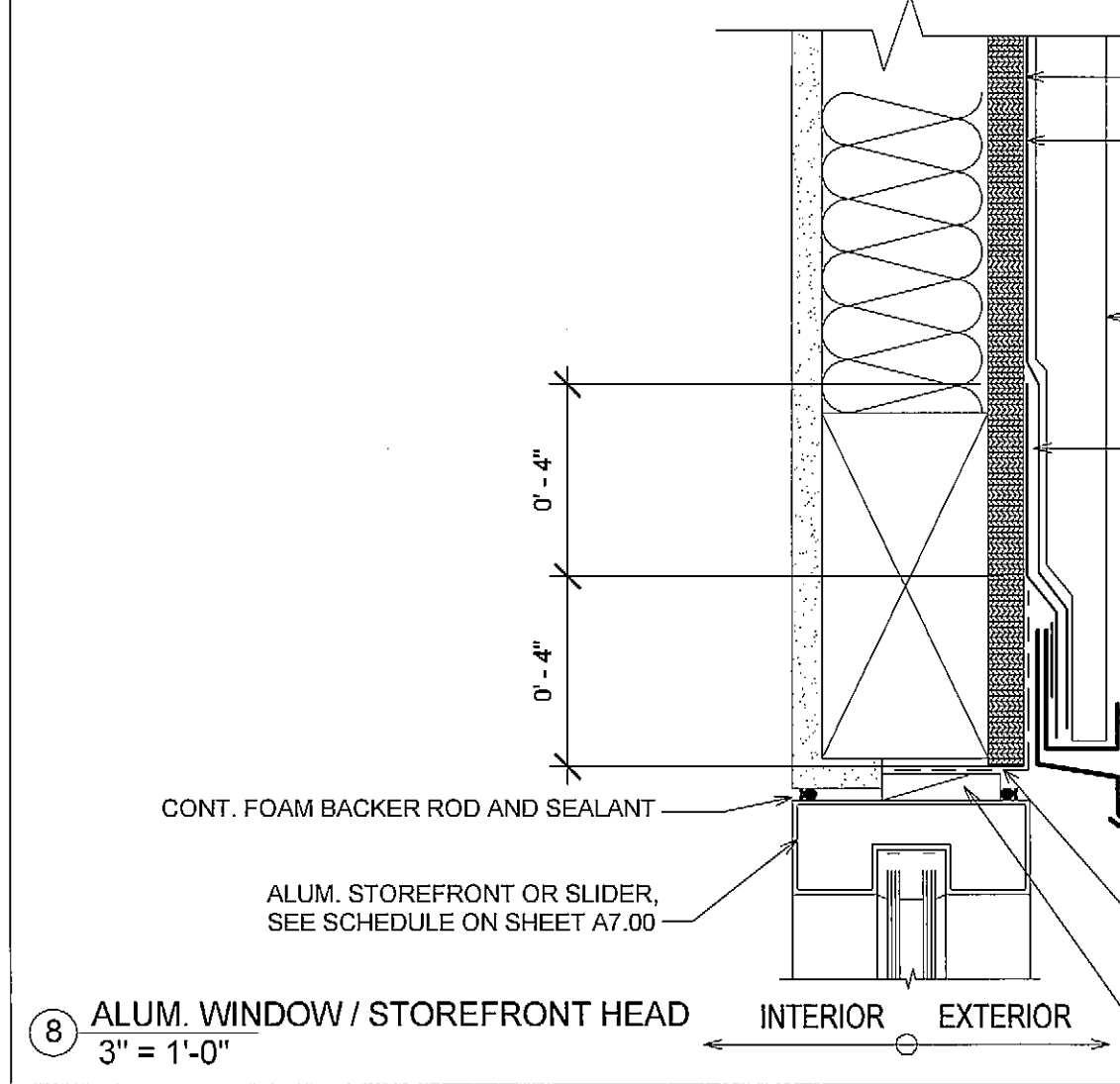


Window types  
1/4" = 1'-0"

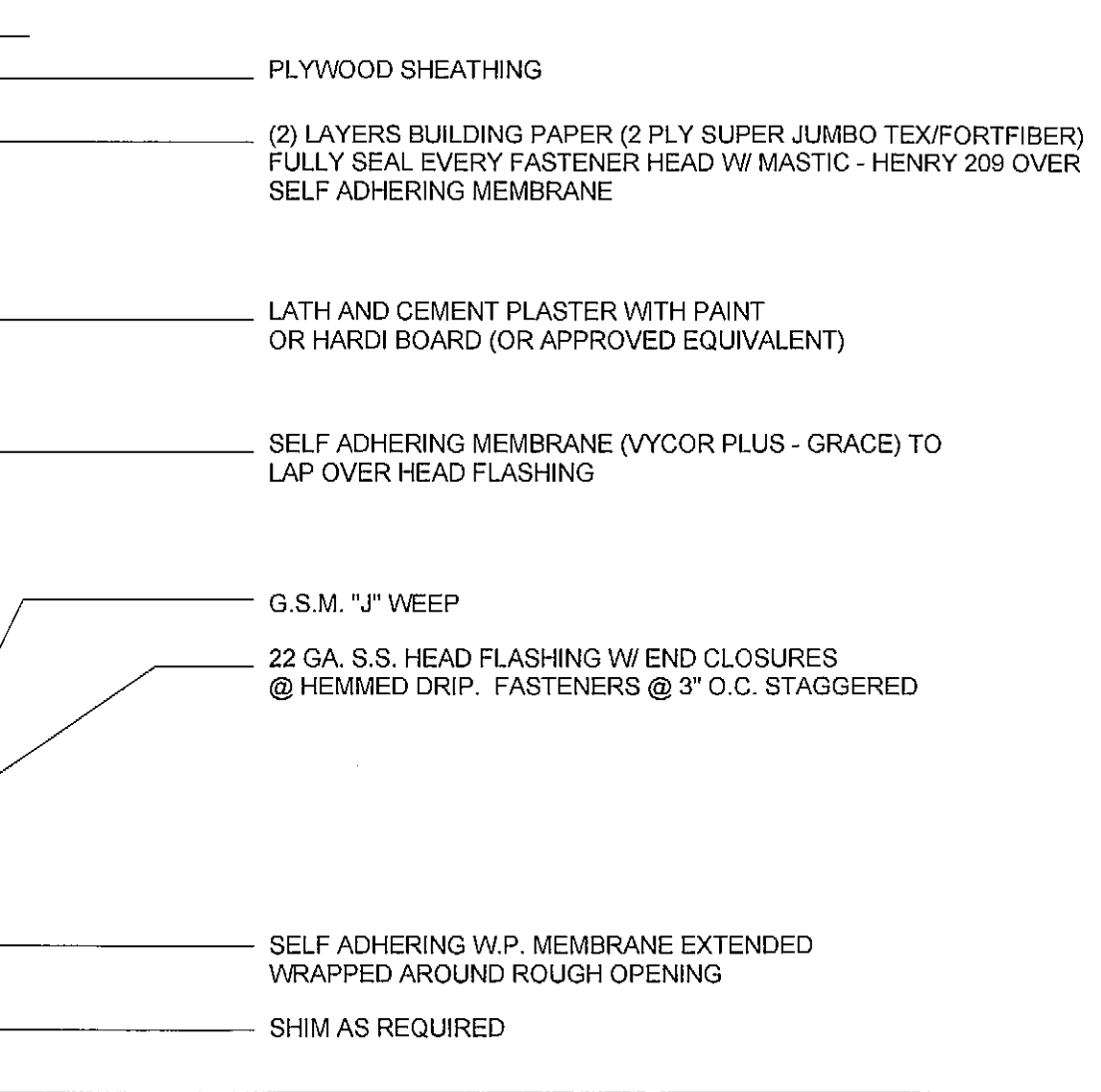
- \*NOTES:**  
 A) FOR WINDOWS ALONG SCHOOL STREET PROVIDE WINDOWS THAT HAVE MIN. ACOUSTICAL RATINGS OF STC 27 TO 31 & OTC27.  
 B) AT UNIT 1 DRIVEWAY PROVIDE AT LEAST DUAL PANE WINDOWS.  
 C) ALONG SCHOOL & 35TH AVE. FOR UNITS 4,5,6,7 PROVIDE WINDOWS THAT HAVE MIN. ACOUSTICAL RATING OF STC 35 TO 37 & OTC 28.  
 D) AT COURTYARD WINDOWS NO ACOUSTICAL REQUIREMENTS.  
 E) USE PERMANENTLY NON-HARDENING SEALANT AROUND PERIMETER OF WINDOW FRAMES.  
 F) SELECT WINDOW ASSEMBLIES WITH EFFECTIVE NONPOROUS GASKETS OR WEATHERSTRIPPING TO MINIMIZE AIR INFILTRATION AND SOUND LEAKAGE.  
 G) WINDOW TYPE SHALL BE 2" RECESSED FROM FRONT OF FINISHED FACE.

Type Mark	Rough Opening Width	Rough Opening Height	Description	Glazing Type
A1	6'-0"	10'-0"	FIXED W/ AWNING	
A2	6'-0"	10'-0"		
A3	1'-6"	10'-0"		
A4	6'-0"	8'-0"		
A5	6'-0"	6'-0"		
A6	1'-6"	6'-0"		
A7	3'-0"	8'-0"		
A8	6'-0"	2'-0"	NOTE G	
A9	6'-0"	4'-0"	NOTE G	
A10	3'-0"	5'-0"	NOTE G	
A11	3'-0"	2'-6"		
A12	10'-4"	2'-0"	NOTE G	
A13	6'-7"	2'-0"	NOTE G	

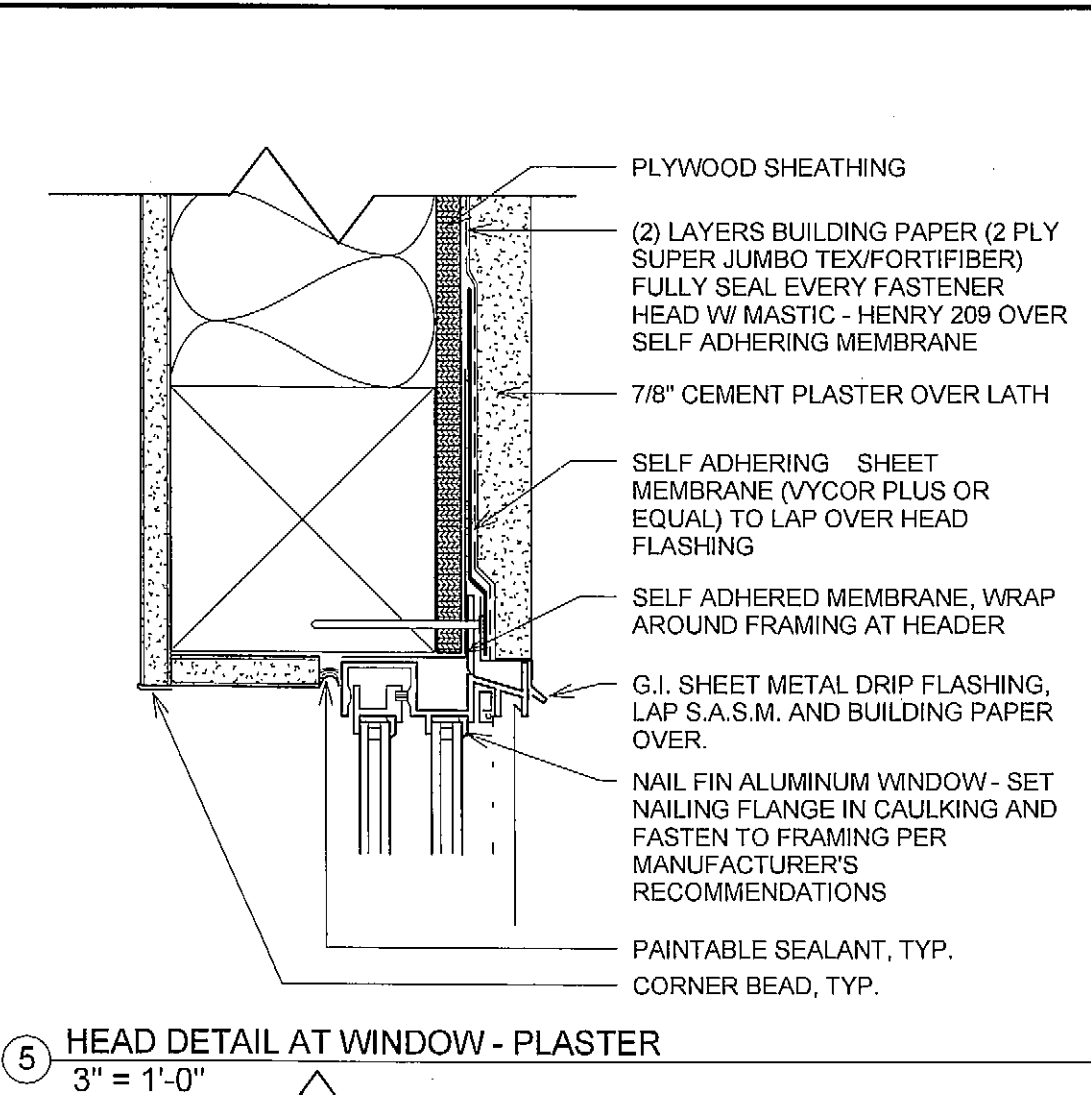
\*SEE DIMENSION ON TYPES



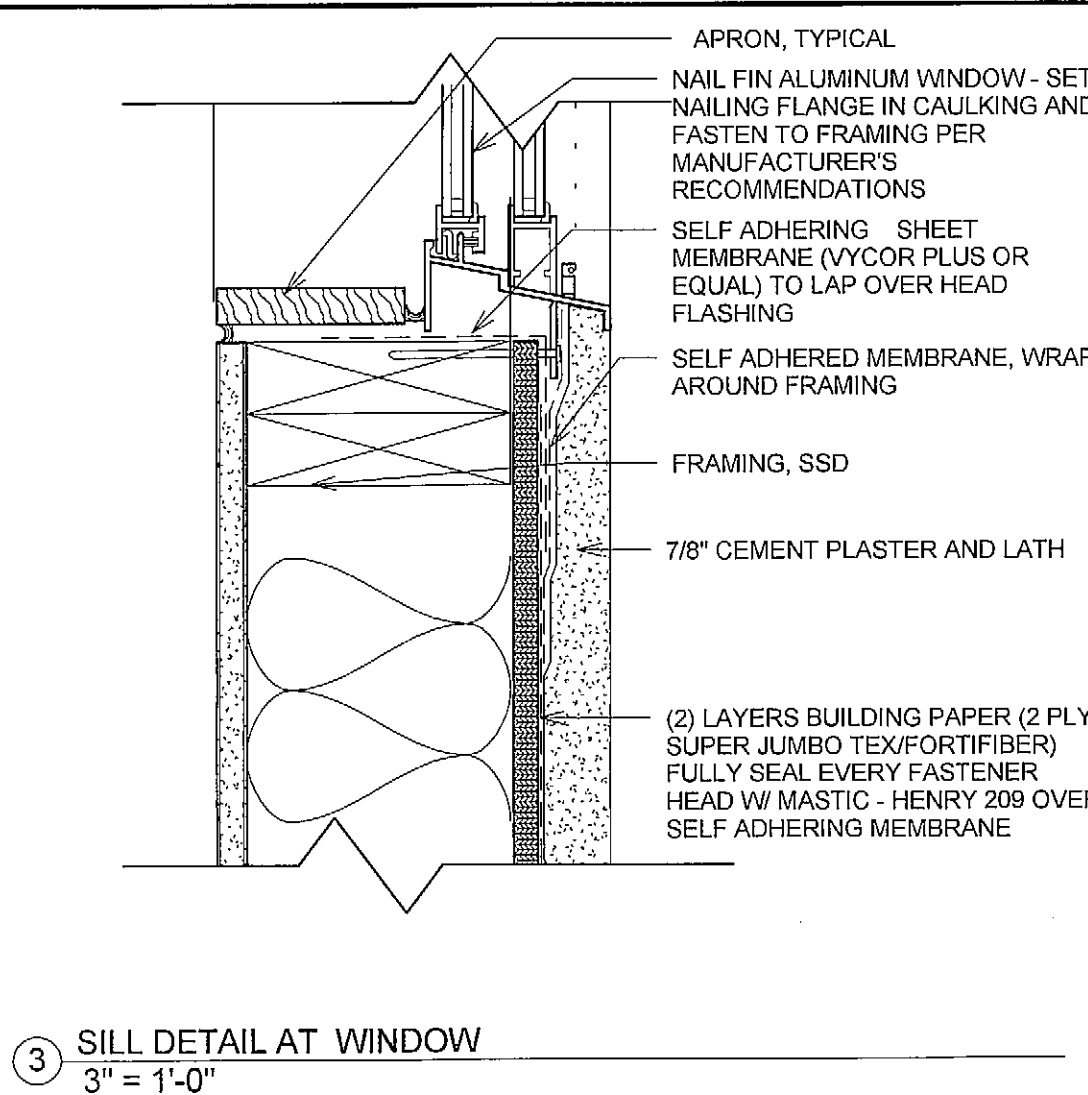
8 ALUM. WINDOW / STOREFRONT HEAD  
3" = 1'-0"



7 ALUM. WINDOW / STOREFRONT JAMB  
3" = 1'-0"



5 HEAD DETAIL AT WINDOW - PLASTER  
3" = 1'-0"



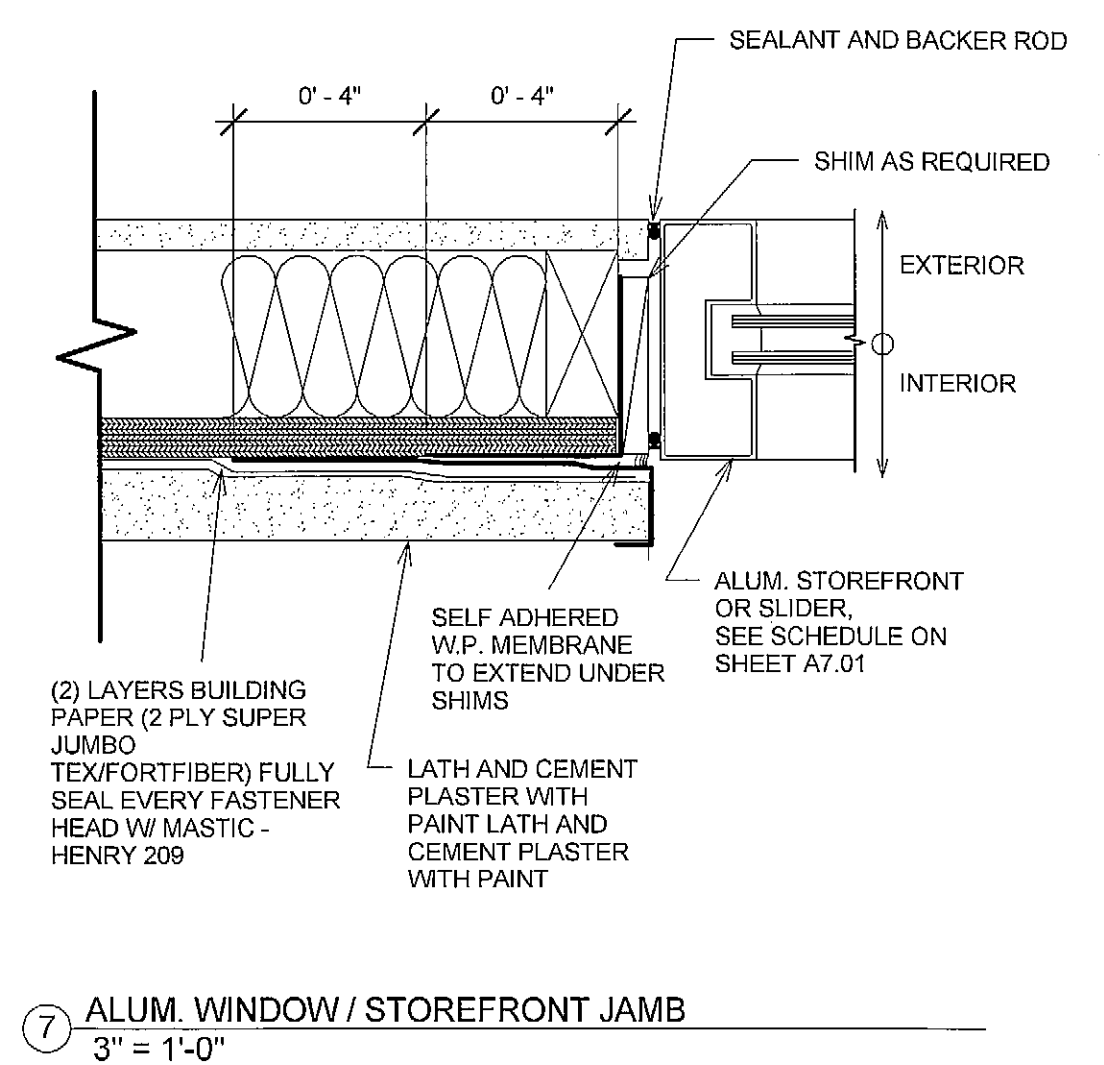
3 SILL DETAIL AT WINDOW  
3" = 1'-0"

**WINDOW NOTES**

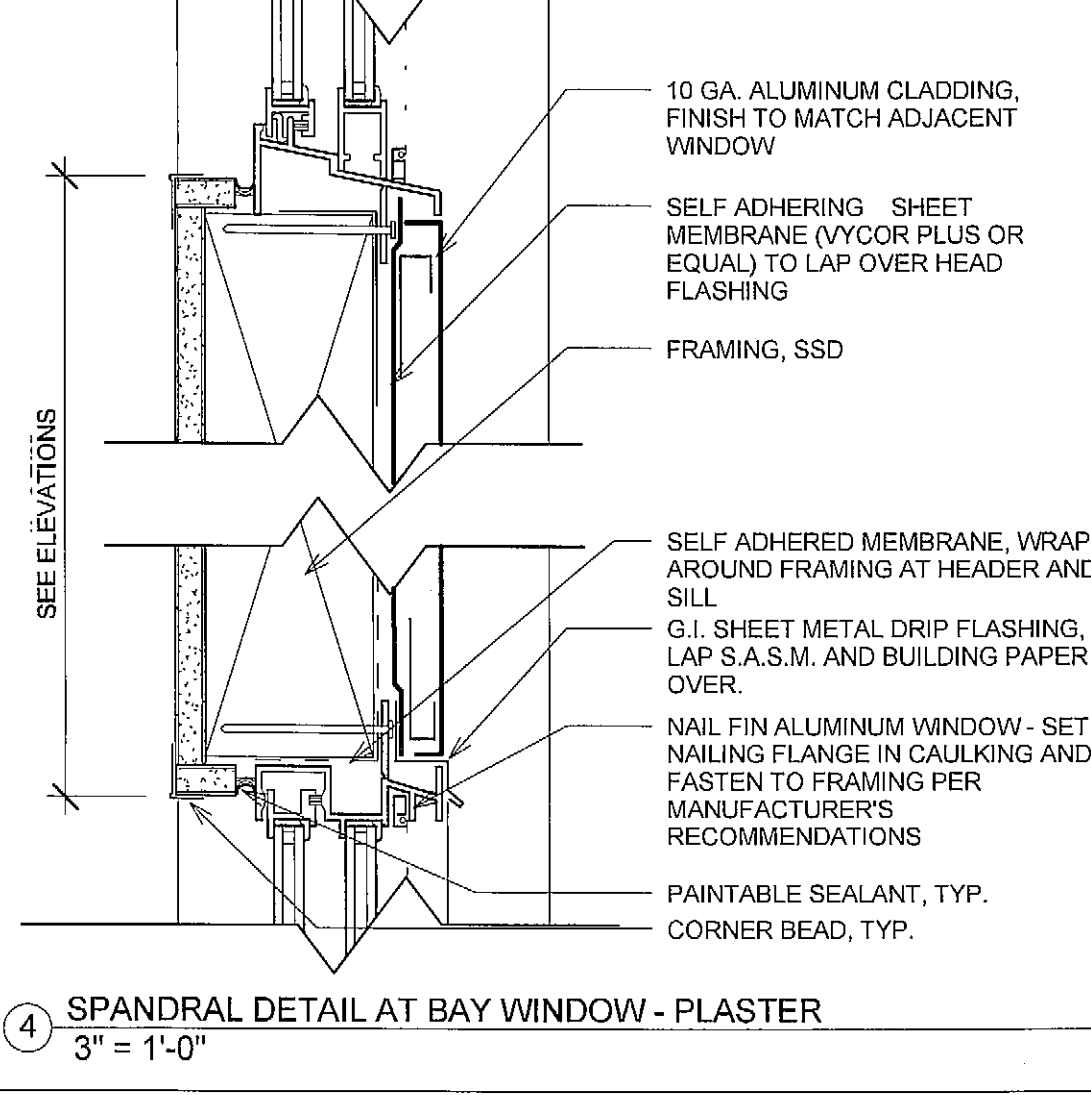
- WINDOWS SHALL COMPLY WITH CBC SECTION 310.4 FOR ESCAPE AND RESCUE, AND CHAPTER 7 FOR FIRE-RESISTIVE DESIGN.
- ALL GLAZING SHALL COMPLY WITH C.P.S.C. 16 C.F.R. AND CHAPTER 24 CBC.
- GLASS DOORS, ADJACENT PANELS AND ALL GLAZED OPENINGS SHALL BE APPROVED FOR IMPACT HAZARD PER CBC SECTION 2406. PROVIDE IDENTIFICATION OF GLAZING PER SECTION 2406.7.3
- REFER TO PLAN FOR WINDOW TYPE DESIGNATION. REFER TO EXTERIOR ELEVATIONS AND SECTIONS FOR WINDOW PLACEMENT. REFER TO WINDOW TYPE ELEVATIONS ON THIS SHEET FOR OPERABLE WINDOW DESIGNATIONS. ALL WINDOW SIZES ARE NOMINAL. VERIFY EXACT WINDOW SIZES WITH MANUFACTURERS.
- SLEEPING ROOMS SHALL HAVE AN EMERGENCY EXIT WINDOW WITH A NET CLEAR OPENING OF NOT LESS THAN 5.7 SQUARE FEET. MINIMUM CLEAR OPENING SHALL BE 24" IN HEIGHT AND 20" IN WIDTH. THE EXIT WINDOW OPENING SHALL BE NO HIGHER THAN 44" ABOVE FINISHED FLOOR PER SECTION 2406.7.3.1.2 CBC.
- GUEST ROOM AND HABITABLE ROOM WINDOWS SHALL COMPLY WITH CBC SECTION 1203 FOR LIGHT AND VENTILATION REQUIREMENTS.
  - A. FOR LIGHT, NO LESS THAN 1/10 OF THE FLOOR AREA WITH A MIN. OF 10 SF.
  - B. FOR VENTILATION, NO LESS THAN 1/20 OF THE FLOOR AREA WITH A MIN. OF 5 SF.
- ALL RESIDENTIAL DWELLING UNIT WINDOWS SHALL BE ALUMINUM FIXED/OPERABLE UNITS. ALL OPERABLE WINDOW SASHES SHALL BE PIVOTING FOR THE PURPOSE OF PROVIDING WINDOW CLEANING FROM THE INTERIOR OF THE BUILDING.
- WINDOW UNITS DESIGNATED AS 'STOREFRONT' SHALL BE ALUMINUM FIXED UNITS. STOREFRONT ALUMINUM SECTION SHALL BE 2'x4' 1/4". GLAZING SHALL BE 1/4" CLEAR VISION (TEMPERED AS REQUIRED).
- REFER TO ACOUSTICAL REPORT FOR ADDITIONAL ACOUSTICAL REQUIREMENTS FOR WINDOWS.
- REFER TO SPECIFICATIONS FOR FURTHER DETAILED WINDOW INFORMATION.
- WINDOWS INDICATED AS 45 OR 80 MIN. (FIRE-RATED) SHALL BEAR THE MANUFACTURER'S ETC. LABEL ON EACH PANEL. NO FIELD APPLICATIONS ALLOWED.
- SAFETY GLAZING PER CBC 2001 SECTION 2406.4 ITEMS 6, 7 & 10. TEMPERED GLASS TO BE USED AT CONDITIONS WHERE GLAZING IS WITHIN 60" OF STAIRWAY LANDINGS ALSO AT CONDITIONS WHERE THE EDGE IS WITHIN 24" OF EITHER THE VERTICAL EDGE OF THE DOOR OR WHERE THE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR STAIR WALKING SURFACE.
- AT DUAL PANE WINDOWS, PANE TO HAVE DIFFERENT THICKNESS OF GLASS. AT DUAL PANE WINDOWS WITH A SOUND INSULATION RATING OF STC 35 OR OVER, ONE PANE TO BE LAMINATED.



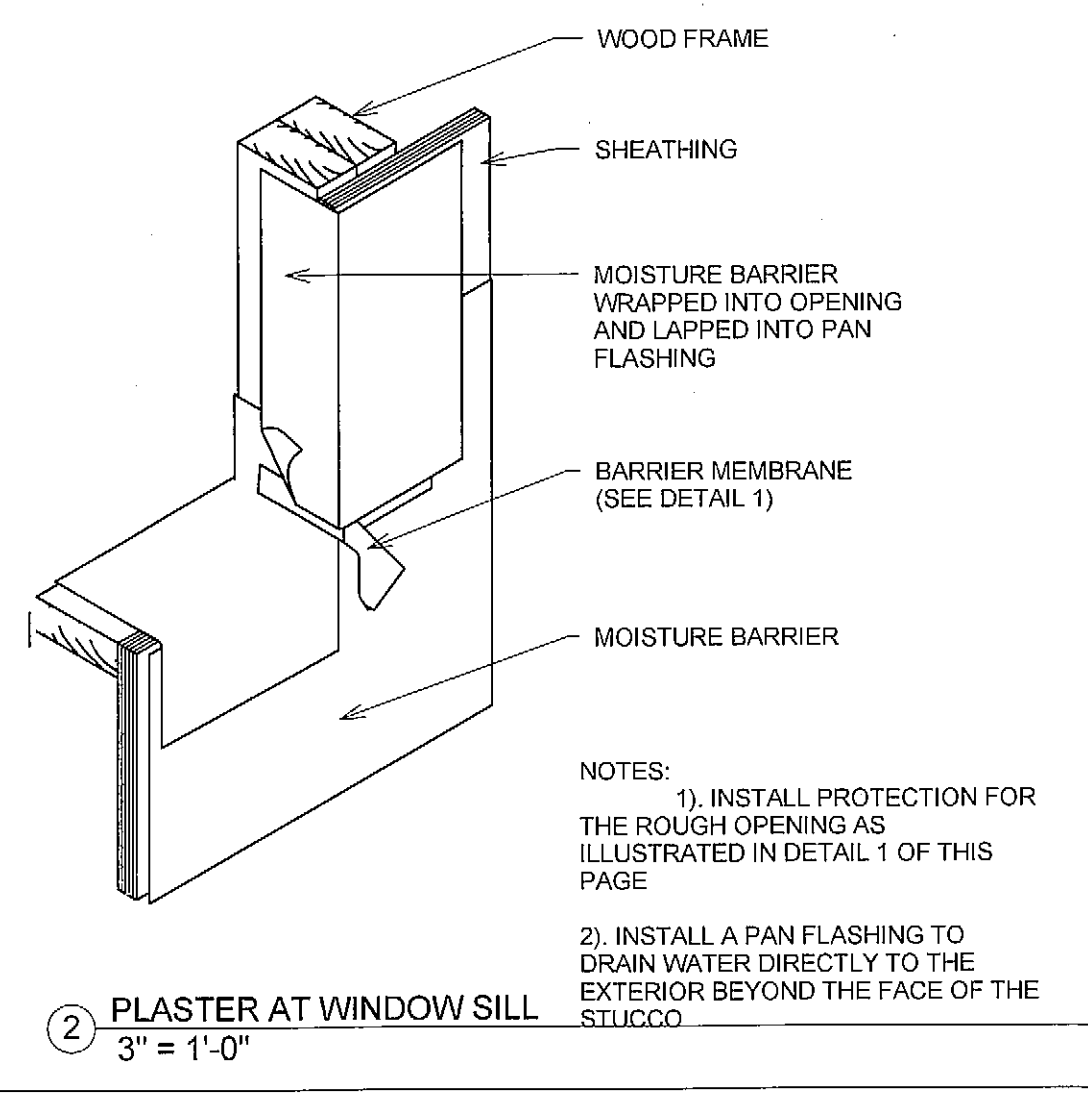
6 ALUM. WINDOW / STOREFRONT JAMB  
3" = 1'-0"



5 HEAD DETAIL AT WINDOW - PLASTER  
3" = 1'-0"



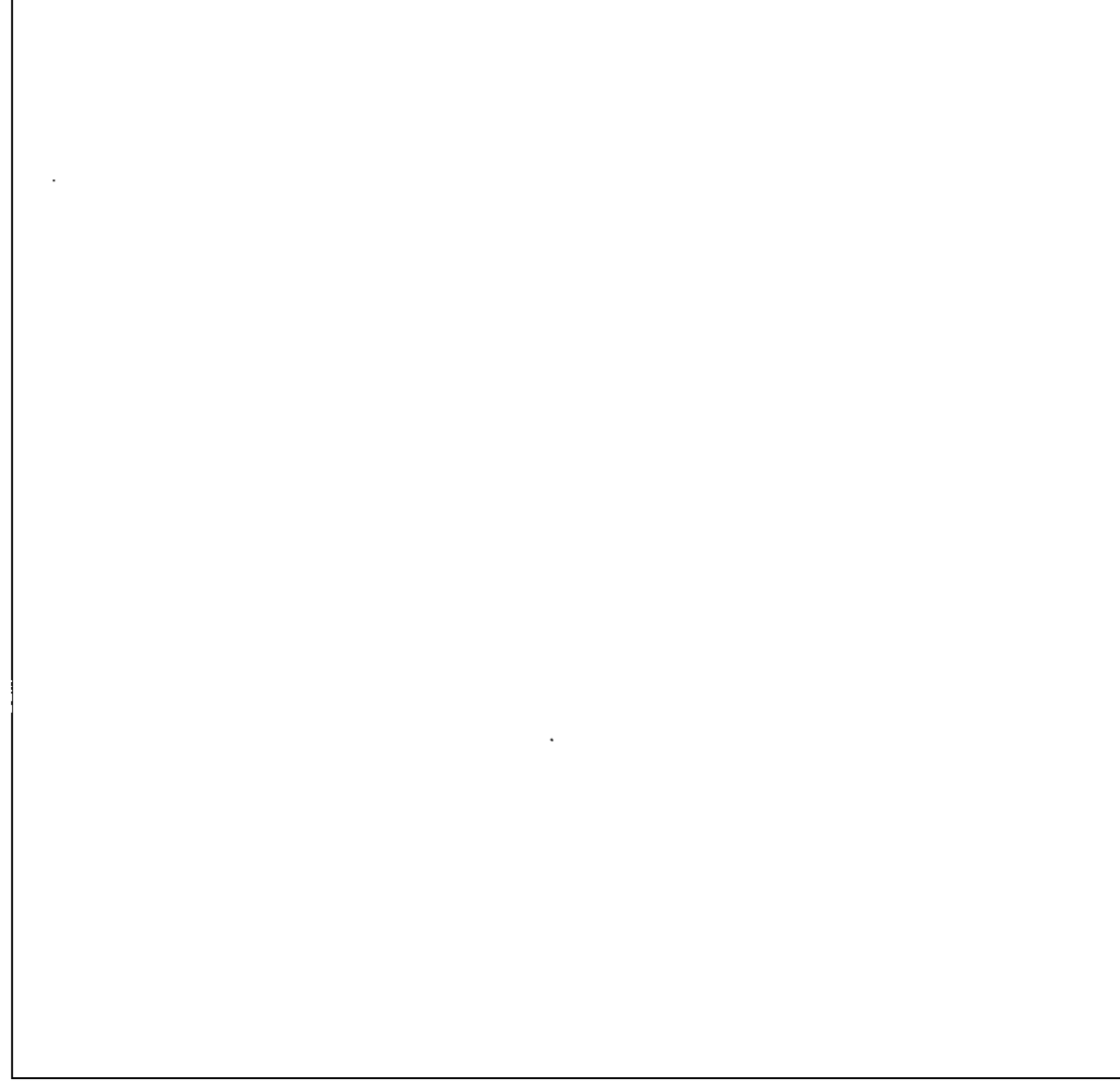
3 SILL DETAIL AT WINDOW  
3" = 1'-0"



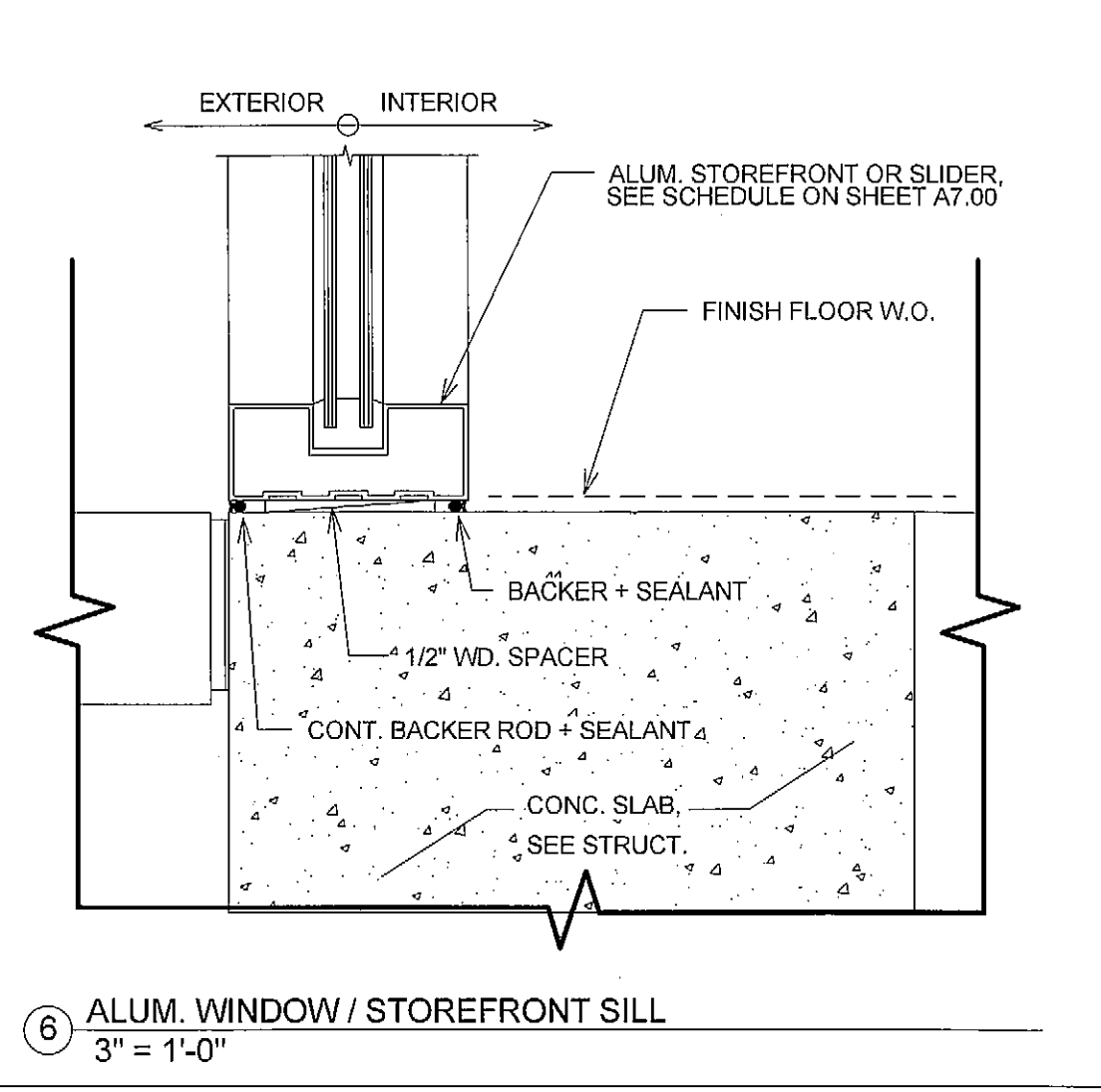
2 PLASTER AT WINDOW SILL  
3" = 1'-0"

**ROUGH OPENING PREPARATION**

- NOTES:  
 1) Prepare opening prior to the installation of the Window or mechanical Equipment. Coordinate installation with other Associated trades.  
 2) Provide moisture barrier and other associated trim and accessories as noted.  
 3) Provide flashing at sill to drain water to the Exterior.
- STEP 1  
INSTALL SHEET OF MOISTURE BARRIER AT BOTTOM OF OPENING
- STEP 2  
INSTALL BARRIER MEMBRANE ON SILL OF ROUGH OPENING AND ONTO THE MOISTURE BARRIER. LAP UP THE JAMBS A MINIMUM OF 4" (100 MM).
- STEP 3  
COMPLETELY SEAL CORNER BY APPLYING A 2" (50 MM) STRIP OF BARRIER MEMBRANE DIAGONALLY AS SHOWN
- STEP 4  
WRAP MOISTURE BARRIER AROUND JAMBS OVERLAPPING BARRIER MEMBRANE 2" (50 MM). SLIDE HEAD FLASHING TO SHEET. SLIP SHEET IF NECESSARY FOR INSERTION



6 ALUM. WINDOW / STOREFRONT SILL  
3" = 1'-0"



4 SPANDREL DETAIL AT BAY WINDOW - PLASTER  
3" = 1'-0"

ARCHITECTURE

**PHILIP BANTA & ASSOCIATES**

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REVISIONS:  ISSUES:

No.	Description	Date
1	1ST PLAN CHECK REVIEW	01/14/14
1	BUILDING PERMIT	12/12/13

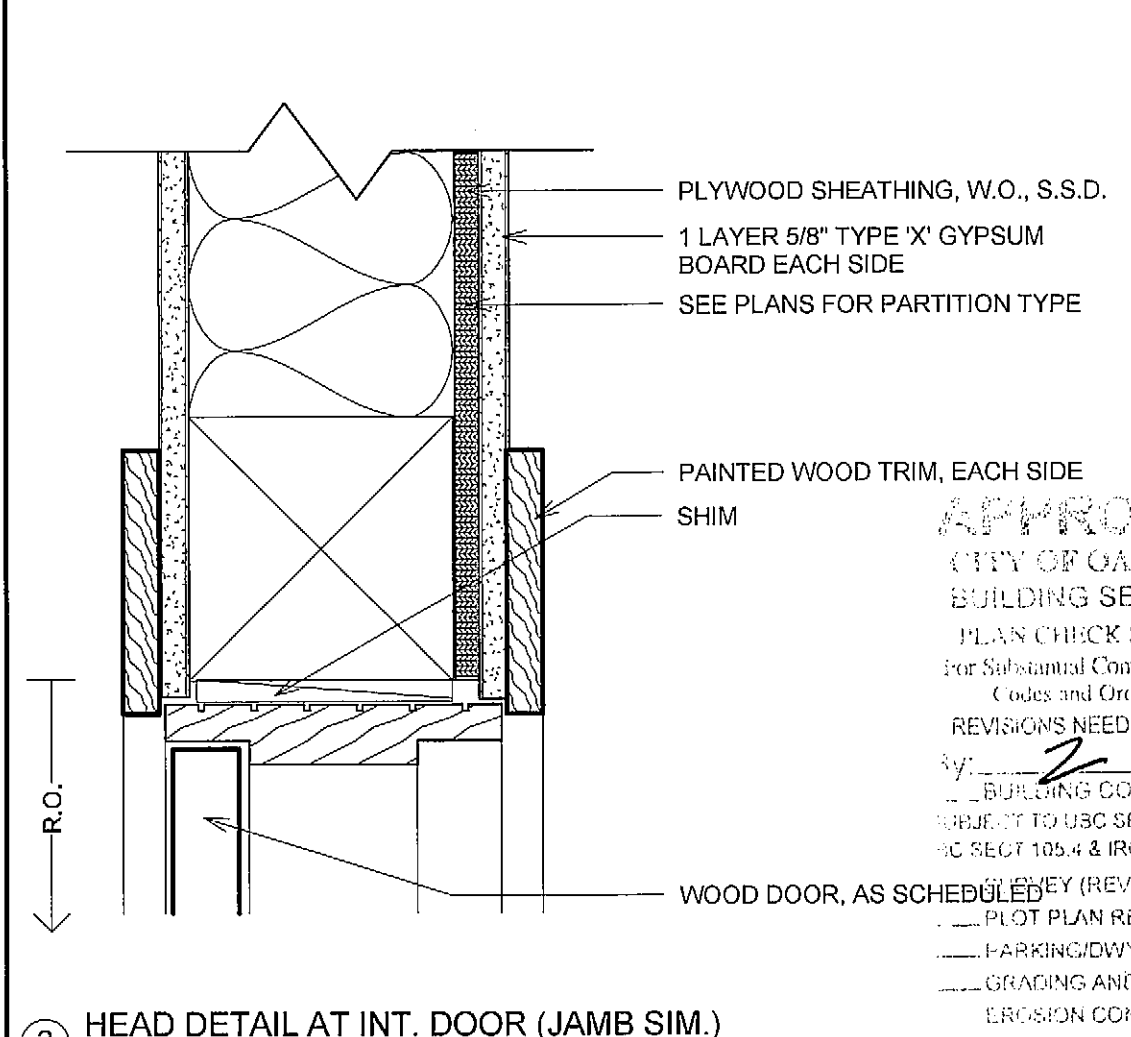
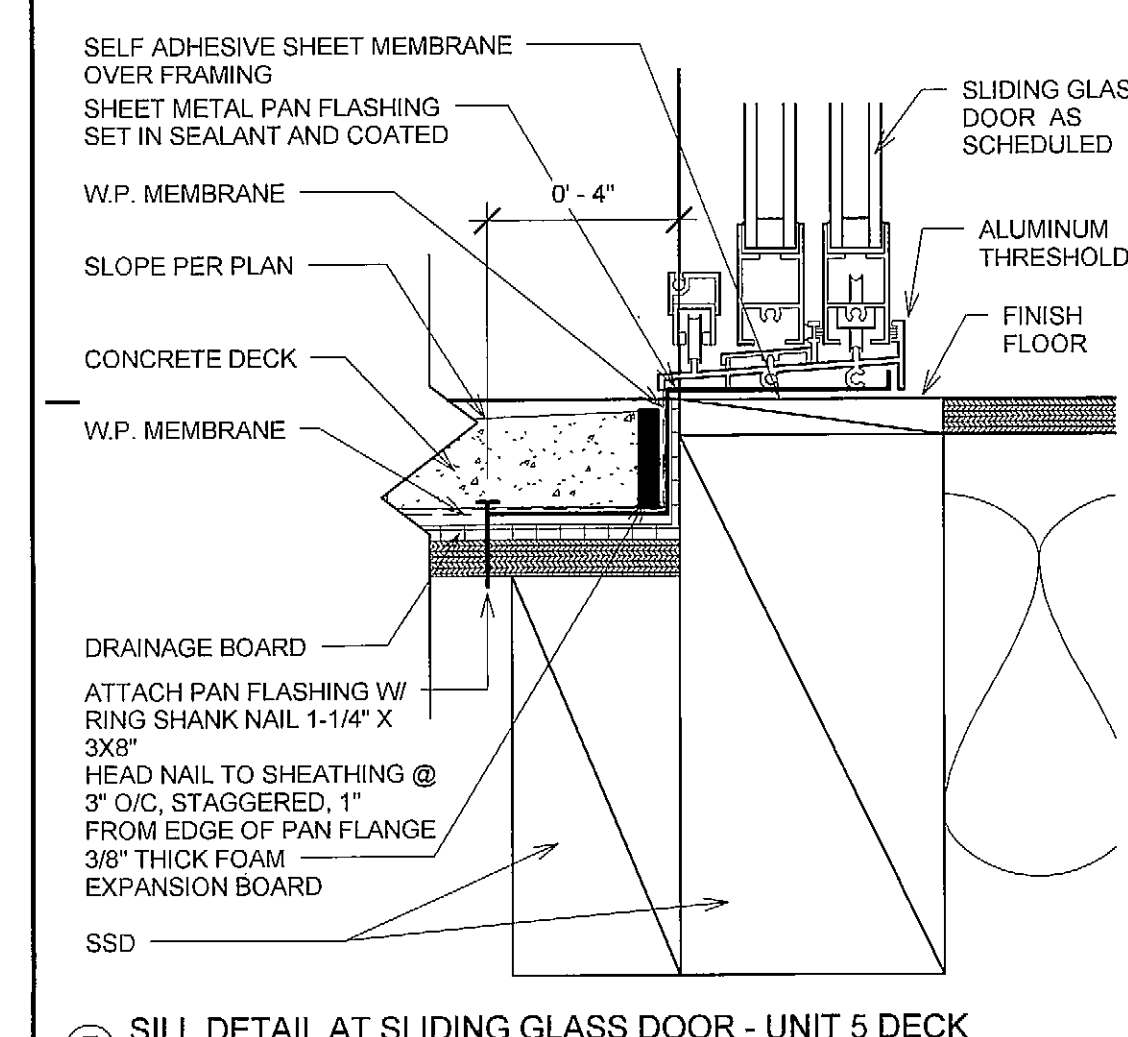
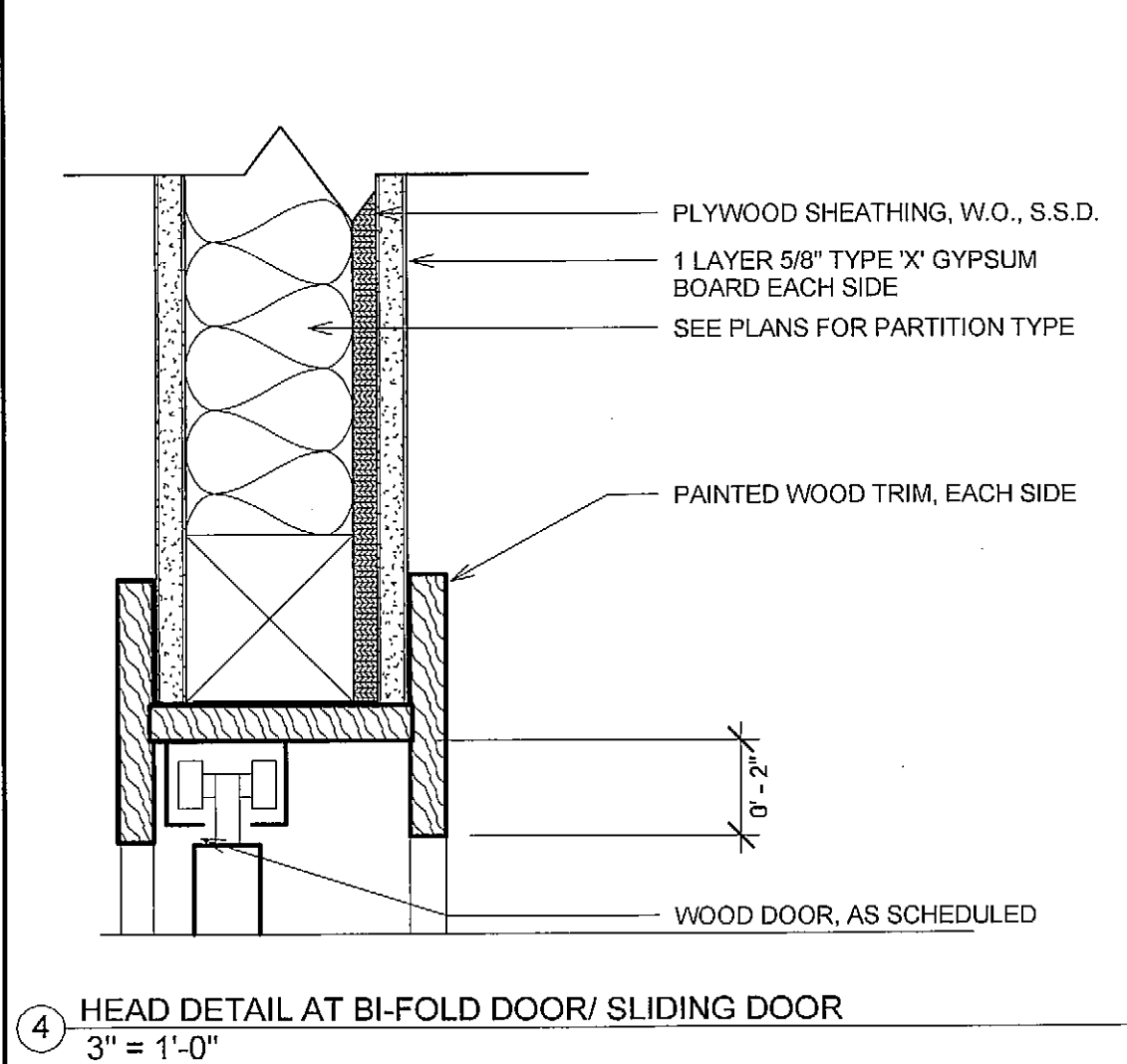
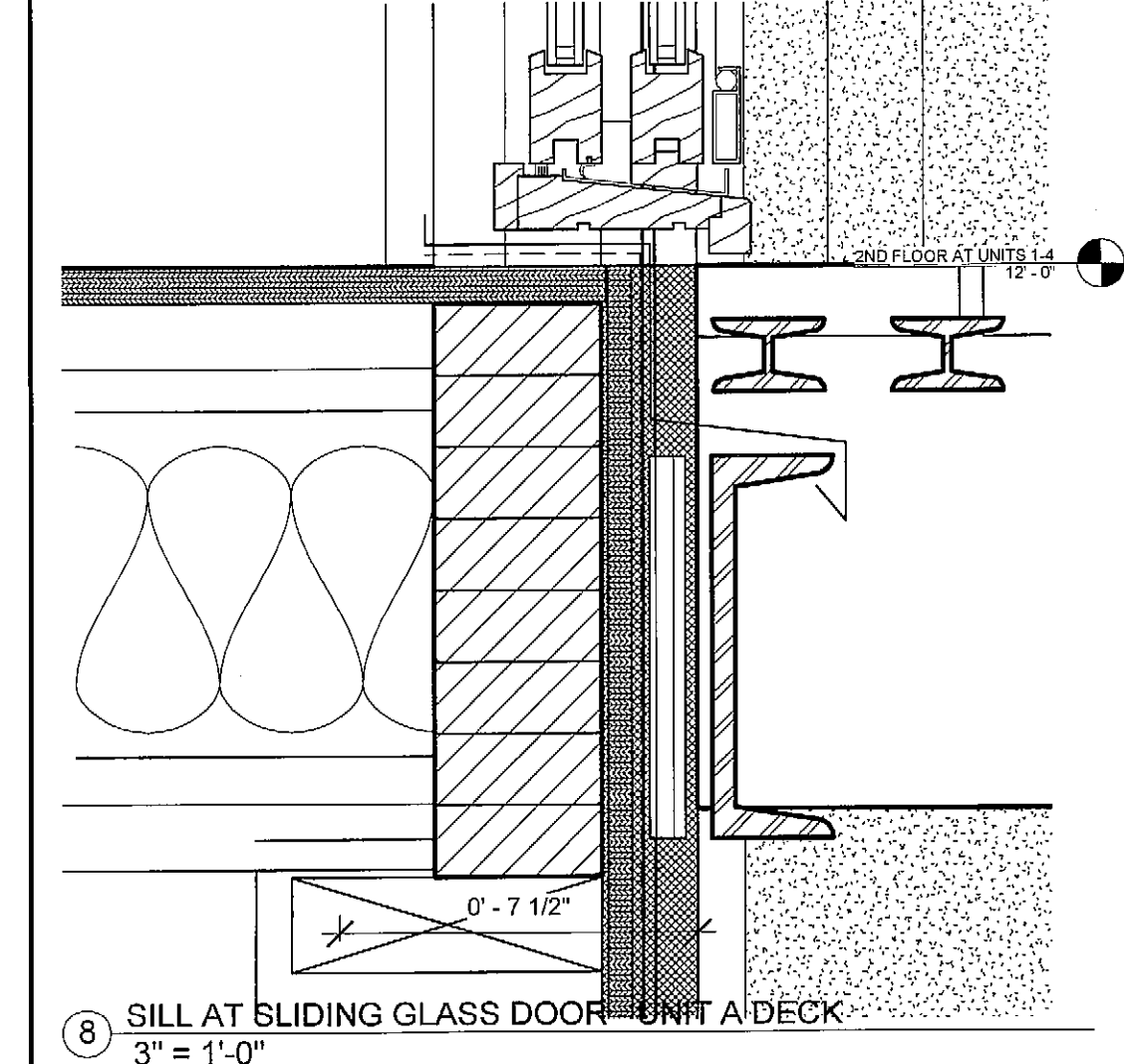
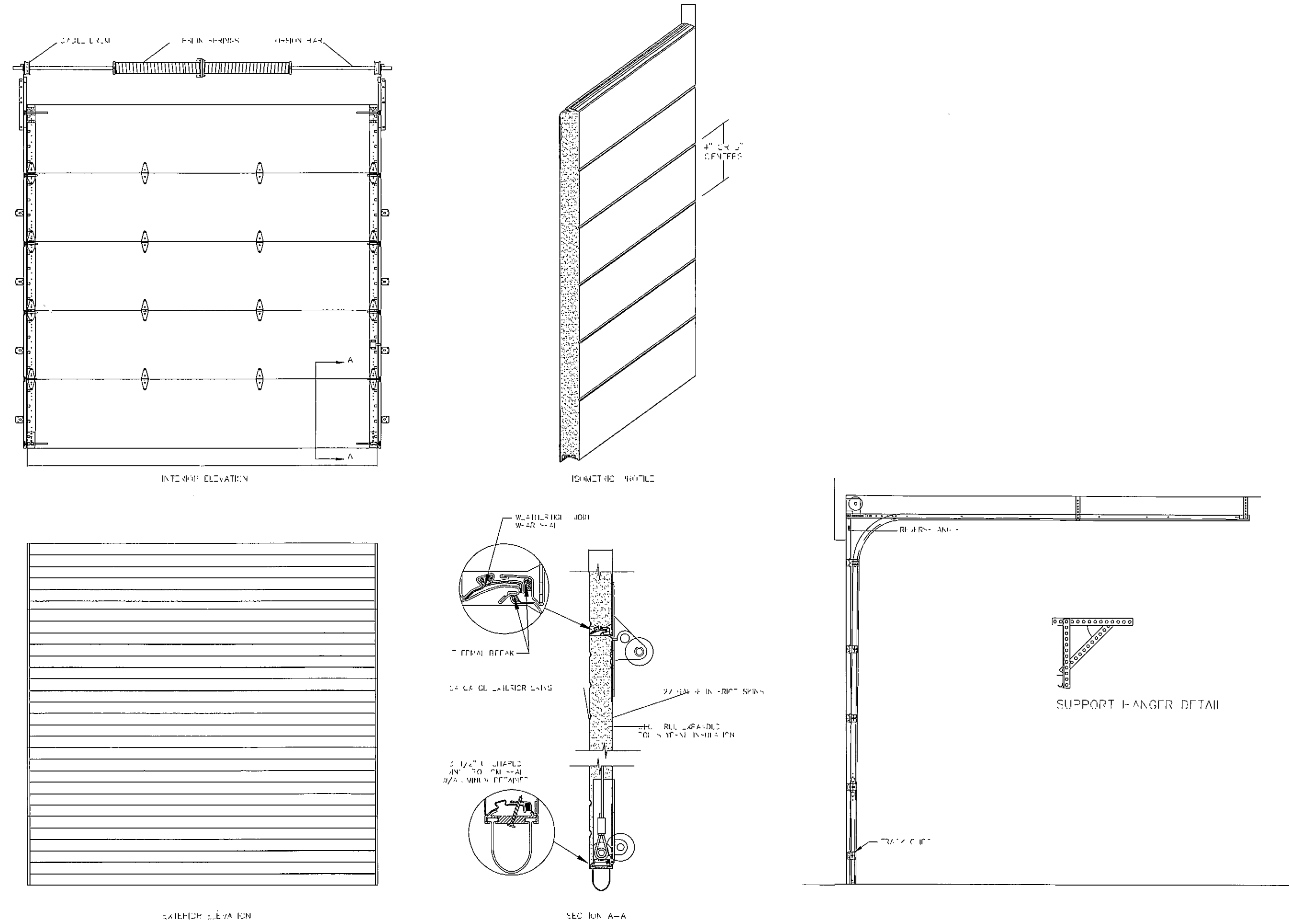
PROJECT:  
**35th @ School**  
 Oakland, CA 94619

LICENSED ARCHITECT  
 PHILIP BANTA  
 No. C-14664  
 Ren. 4/30/15

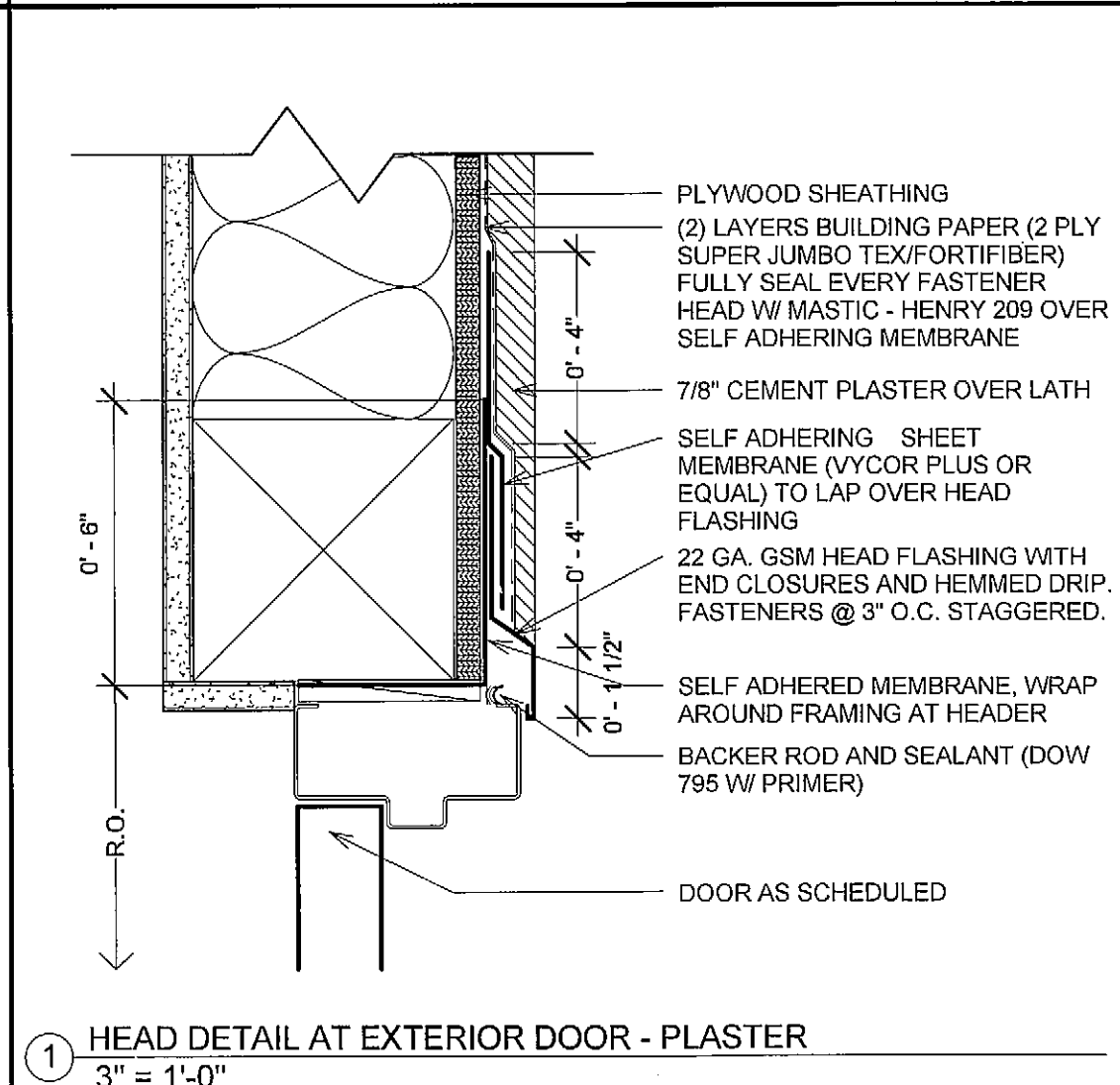
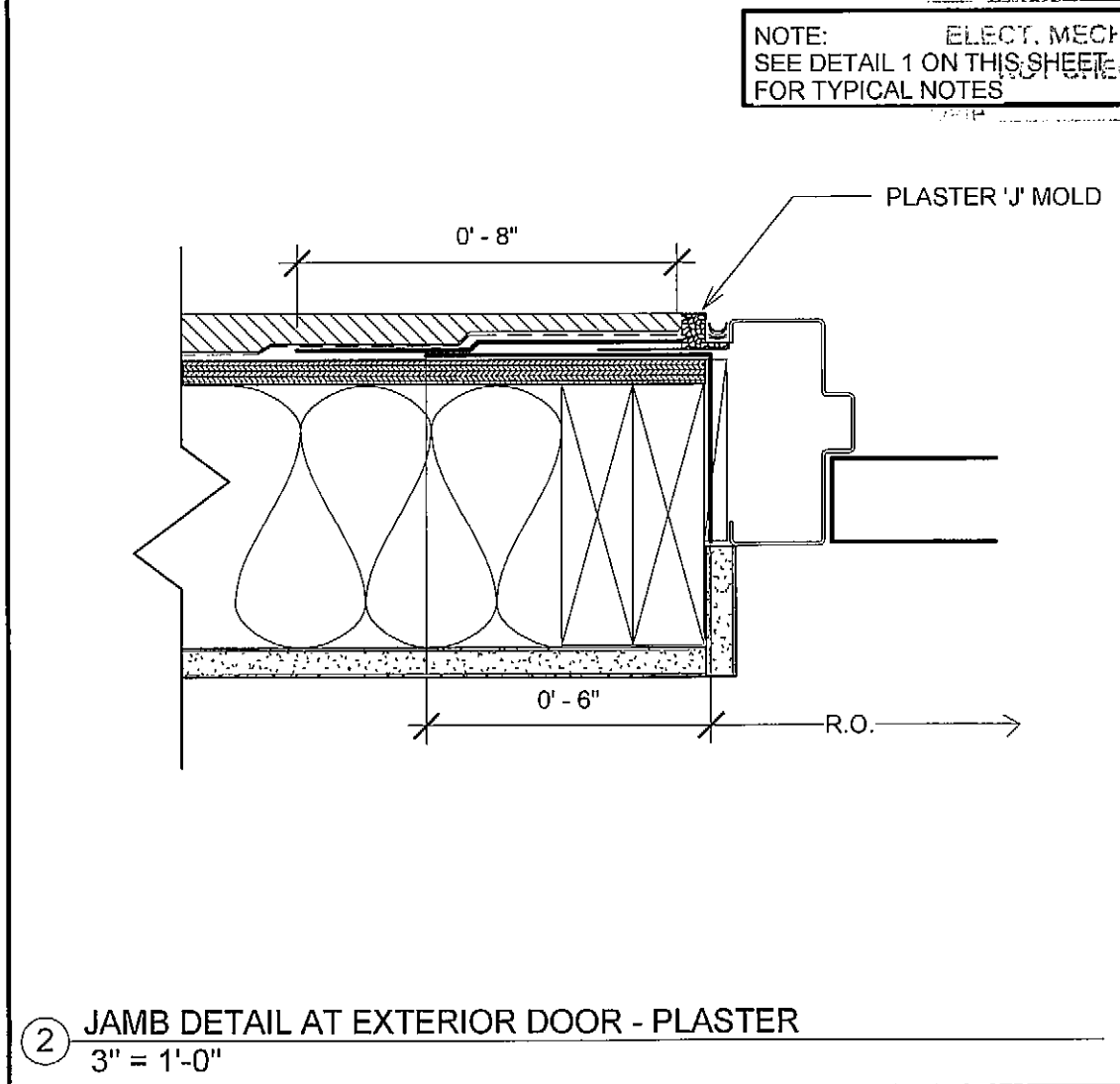
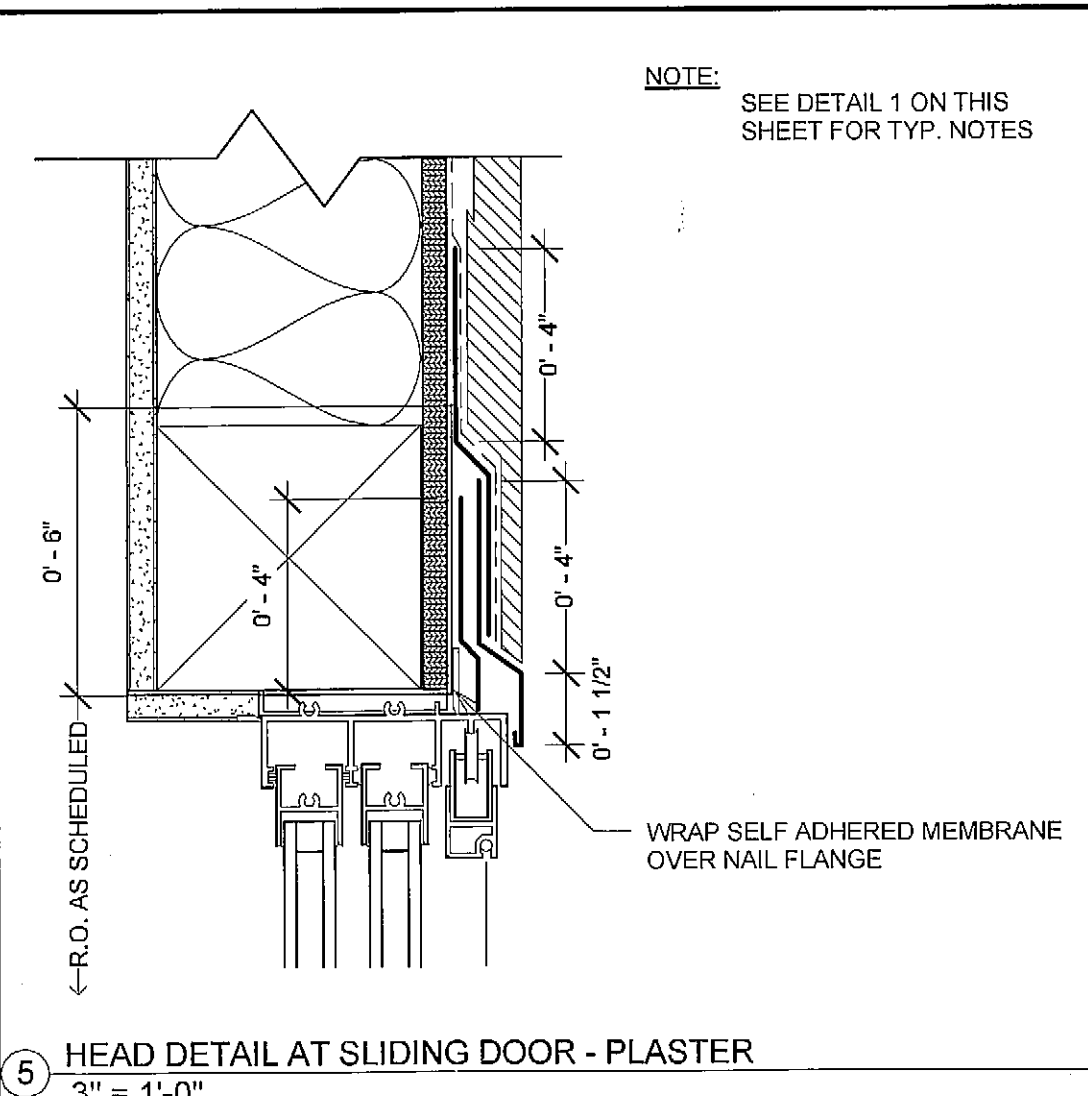
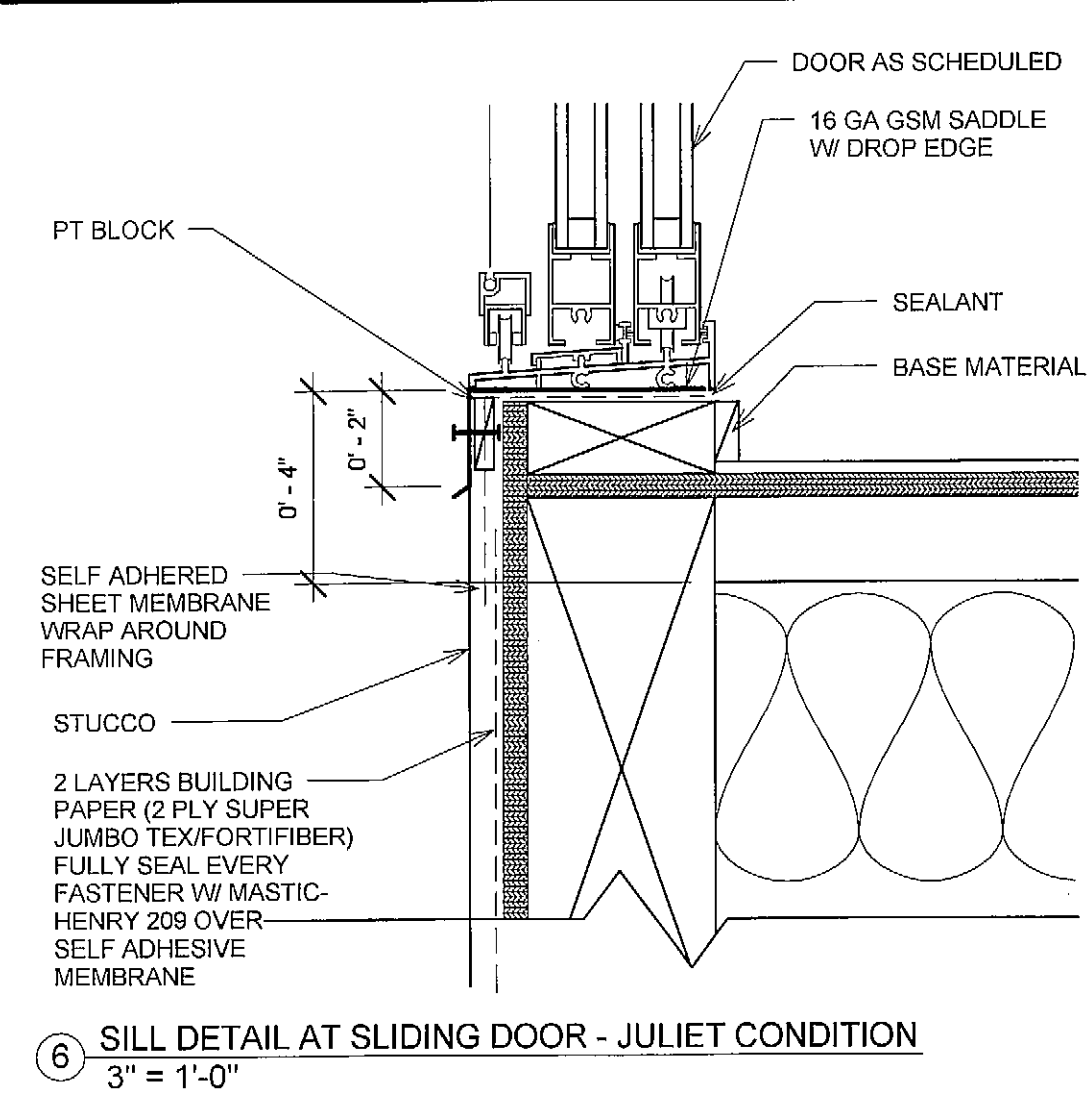
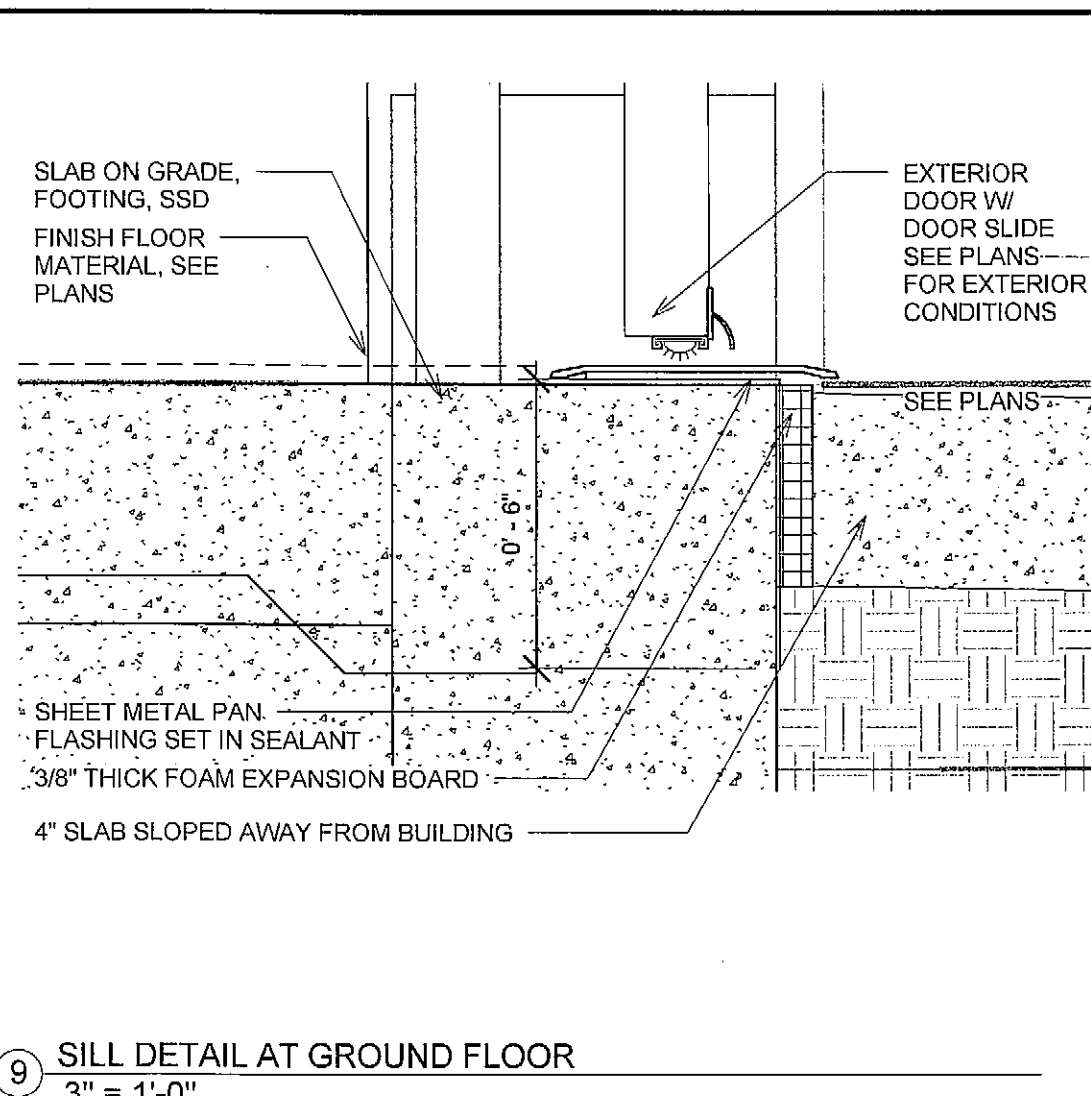
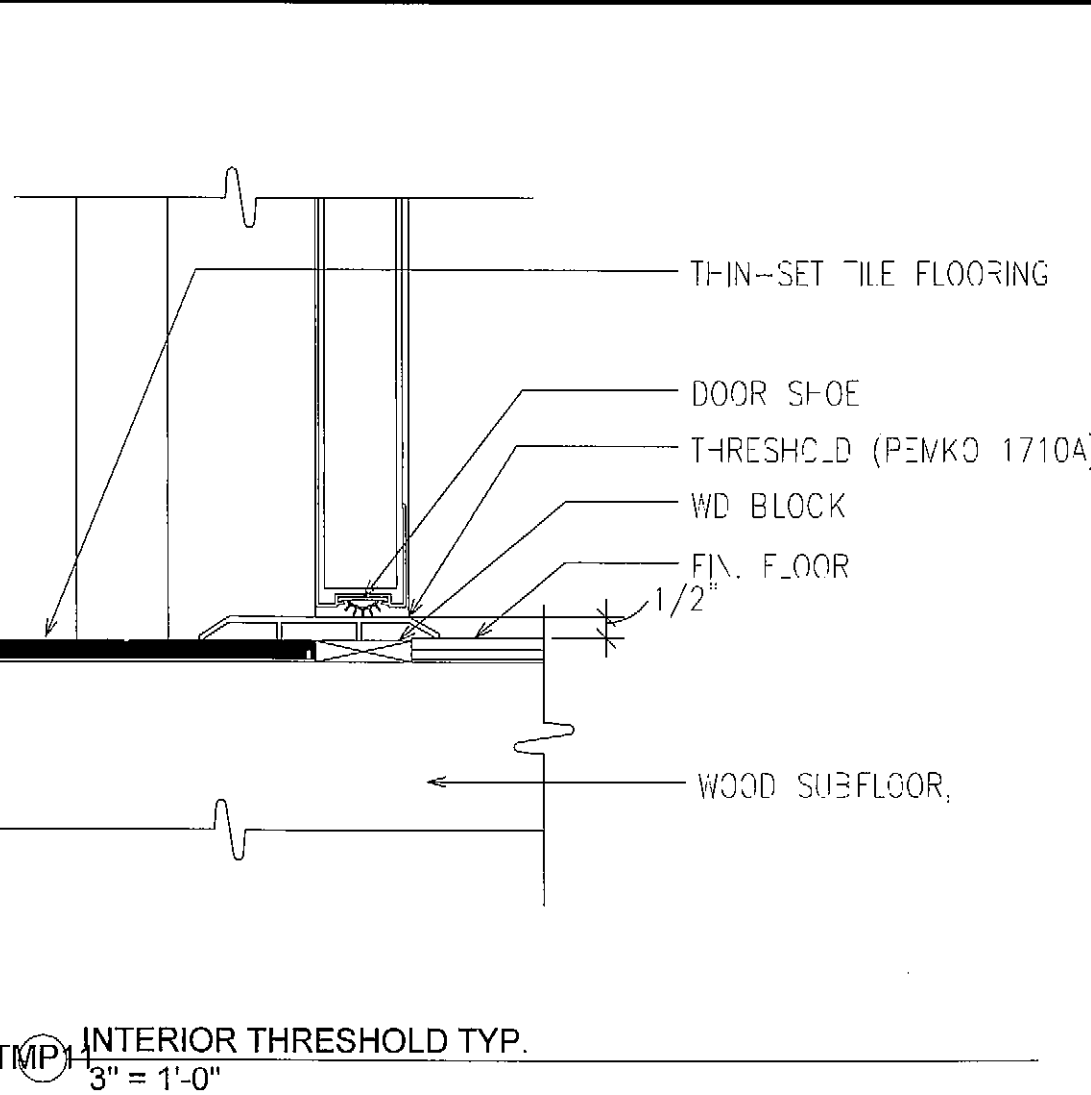
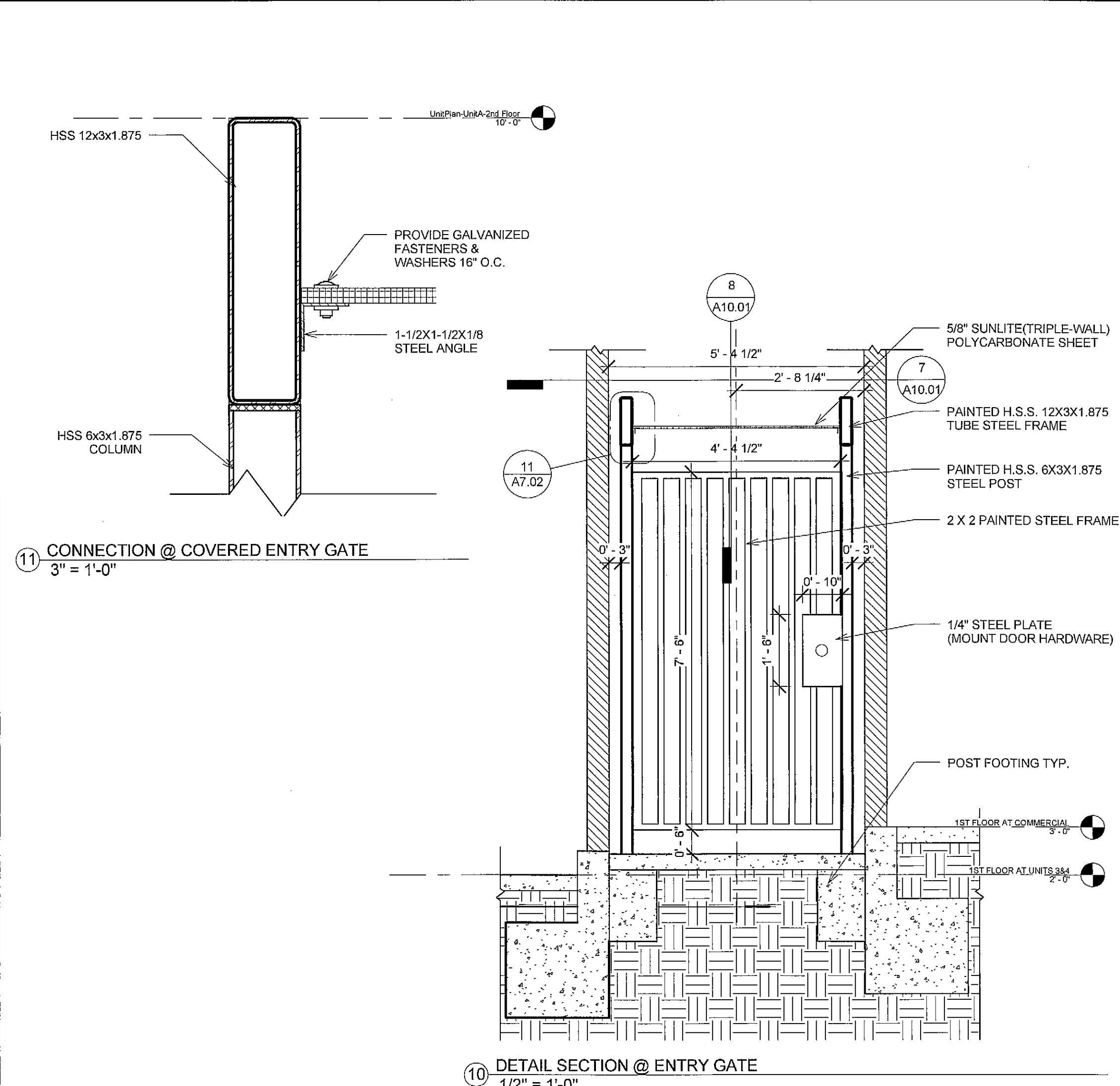
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**WINDOW SCHEDULES**

PROJECT NUMBER: 0714  
 DATE: 01/14/14  
 DRAWN BY: JH/JY  
 CHECKED BY: PB  
 SCALE: As indicated

**A7.01**



13 GARAGE DOOR DETAILS  
3/8" = 1'-0"



ARCHITECTURE

**PHILIP BANTA & ASSOCIATES**

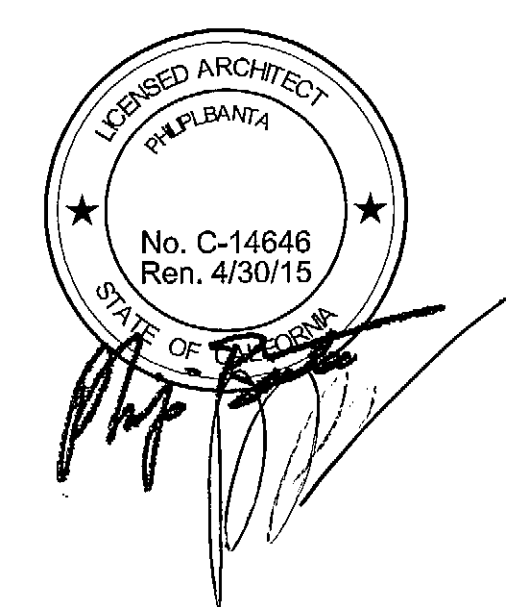
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REVISIONS:  ISSUES:

No.	Description	Date
1	1ST PLAN CHECK REVIEW	01/14/14
2	BUILDING PERMIT	12/12/13

**35th @ School**  
Oakland, CA 94619



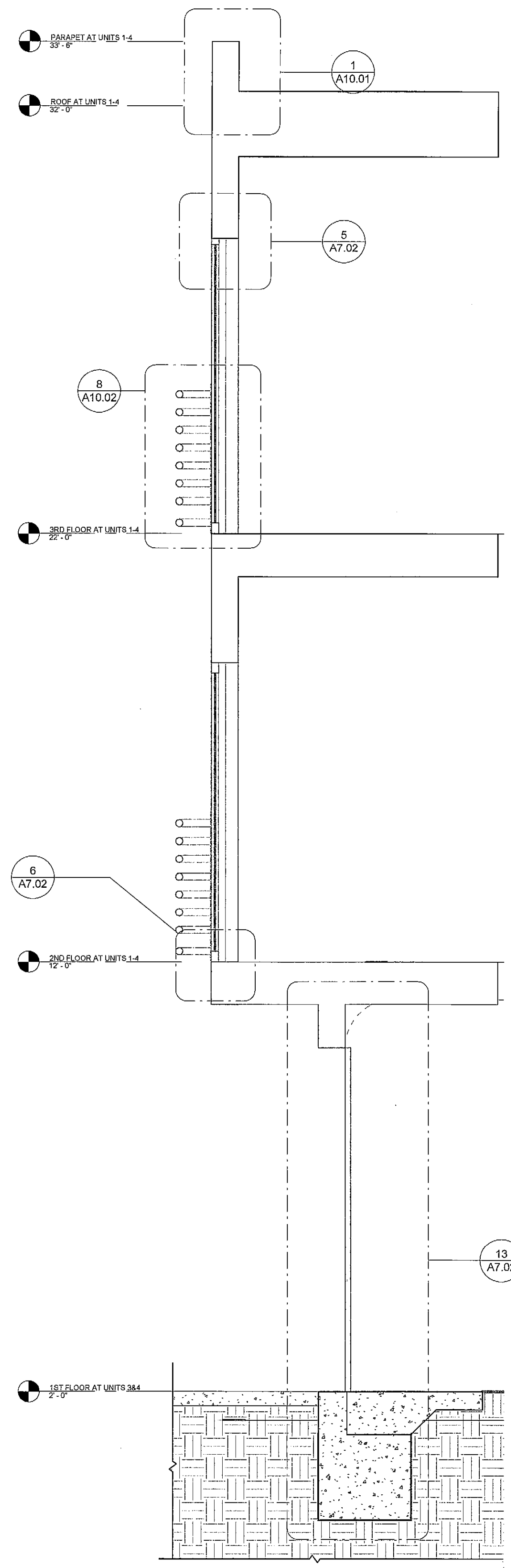
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DATE: 01/14/14  
DRAWN BY: JH/JY  
CHECKED BY: PB  
SCALE: As indicated

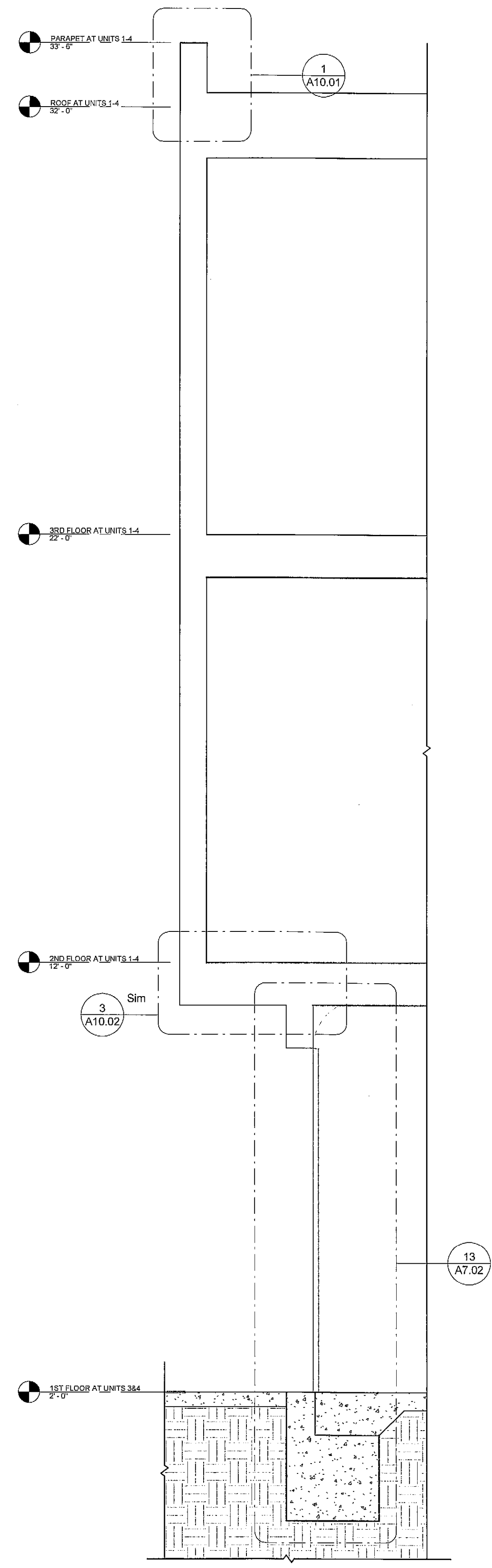
**A7.02**

12/29/2013 3:00:10 PM

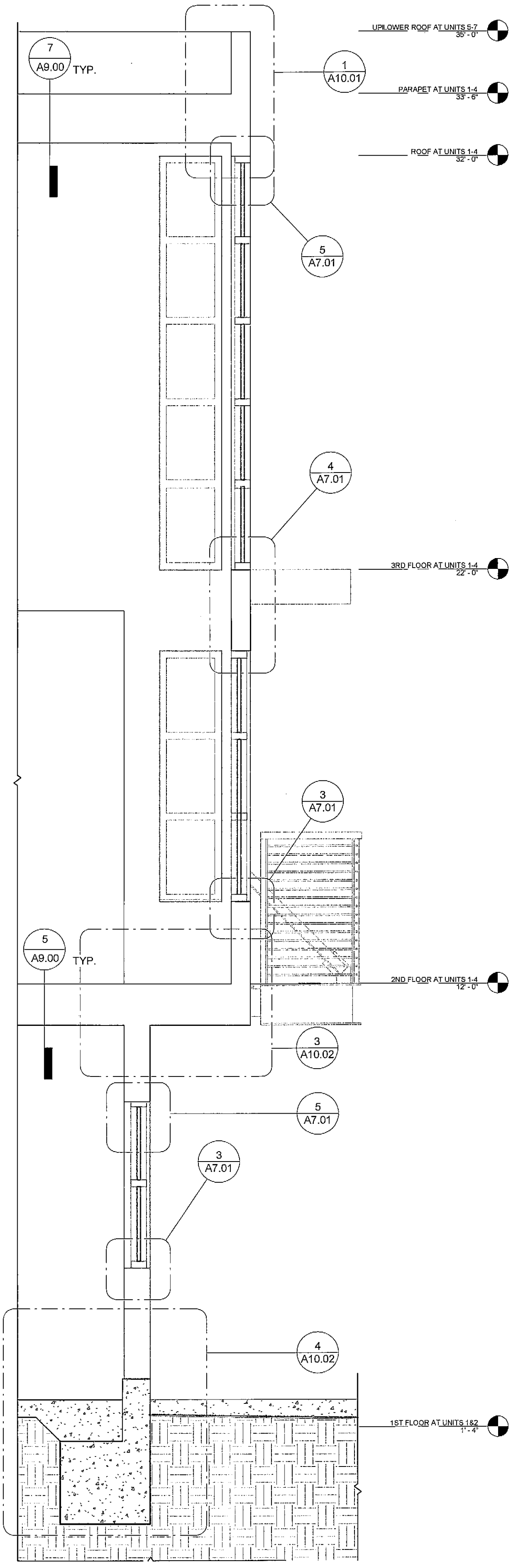




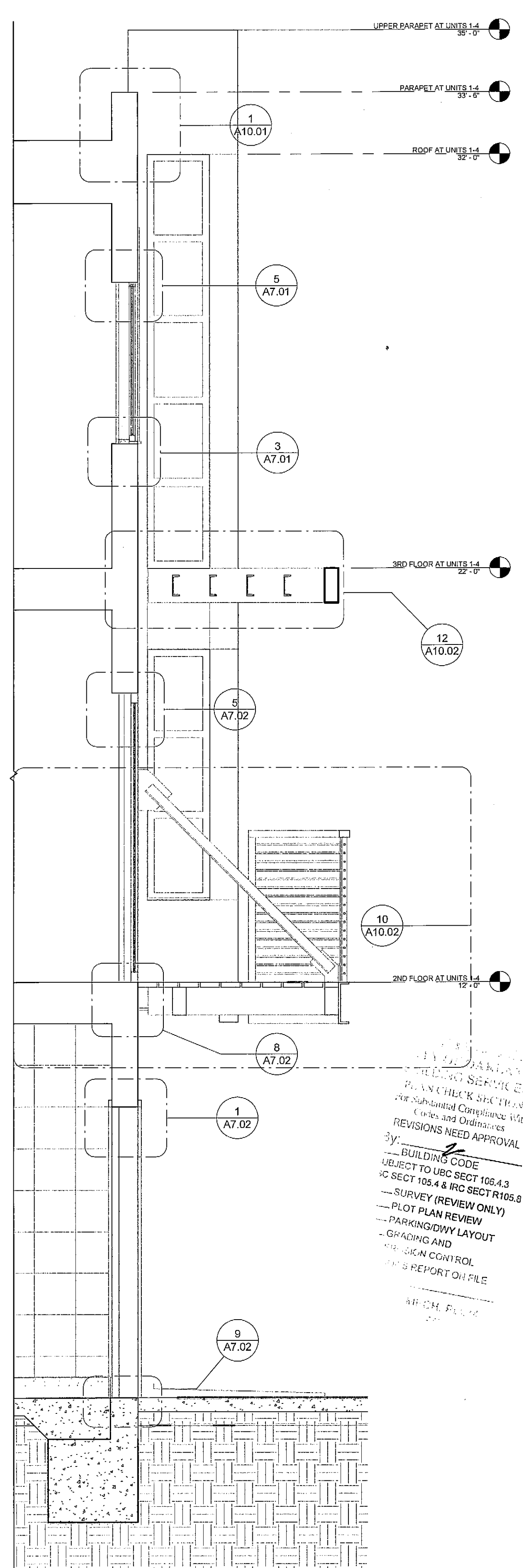
④ UNIT A WALL SECTION 4  
1/2" = 1'-0"



③ UNIT A WALL SECTION 3  
1/2" = 1'-0"



② UNIT A WALL SECTION 2  
1/2" = 1'-0"



① UNIT A WALL SECTION 1  
1/2" = 1'-0"

ALL DIMENSIONS SHOWN ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.  
 REVISIONS NEED APPROVAL  
 BY: [Signature]  
 DATE: 4/30/15  
 SUBJECT TO UBC SECT 10B.4.5  
 10.4.5.1 SURVEY REVIEW ONLY  
 10.4.5.2 PLOT PLAN REVIEW ONLY  
 10.4.5.3 PARKING/LAND CONTROL REPORT ONLY  
 10.4.5.4 OTHER REPORTS ON FILE  
 ALL DIM. FLOOR TO FLOOR

ARCHITECTURE

**PHILIP BANTA & ASSOCIATES**

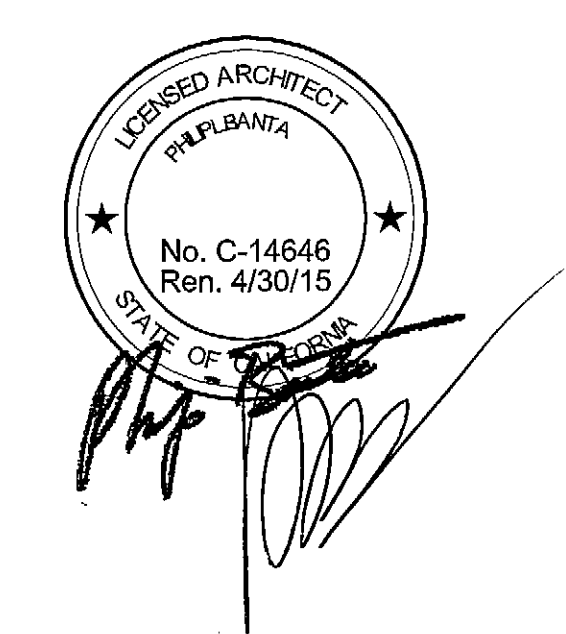
6050 HOLLIS STREET  
EMERYVILLE, CALIFORNIA 94608

TEL: 415.436.5434  
FAX: 415.436.5435  
www.pbantadesign.com

REVISIONS:  ISSUES:

No.	Description	Date
1	1ST PLAN CHECK REVIEW	01/14/14
1	BUILDING PERMIT	12/12/13

PROJECT:  
**35th @ School**  
Oakland, CA 94619

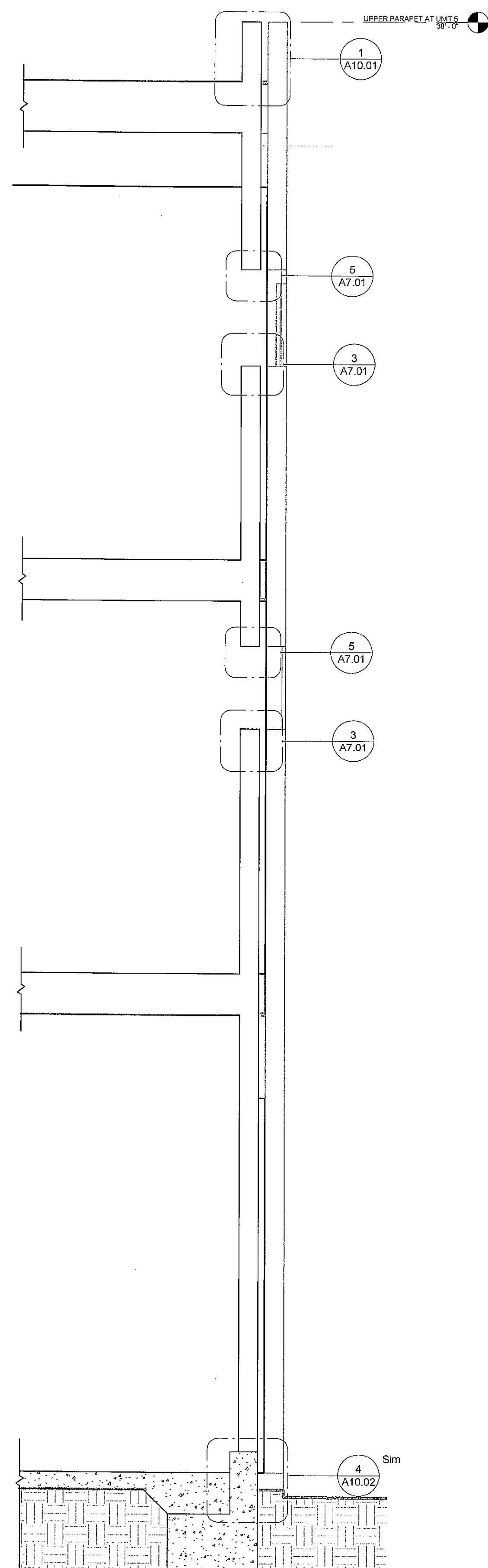


SHEET DESCRIPTION:  
**WALL SECTIONS**

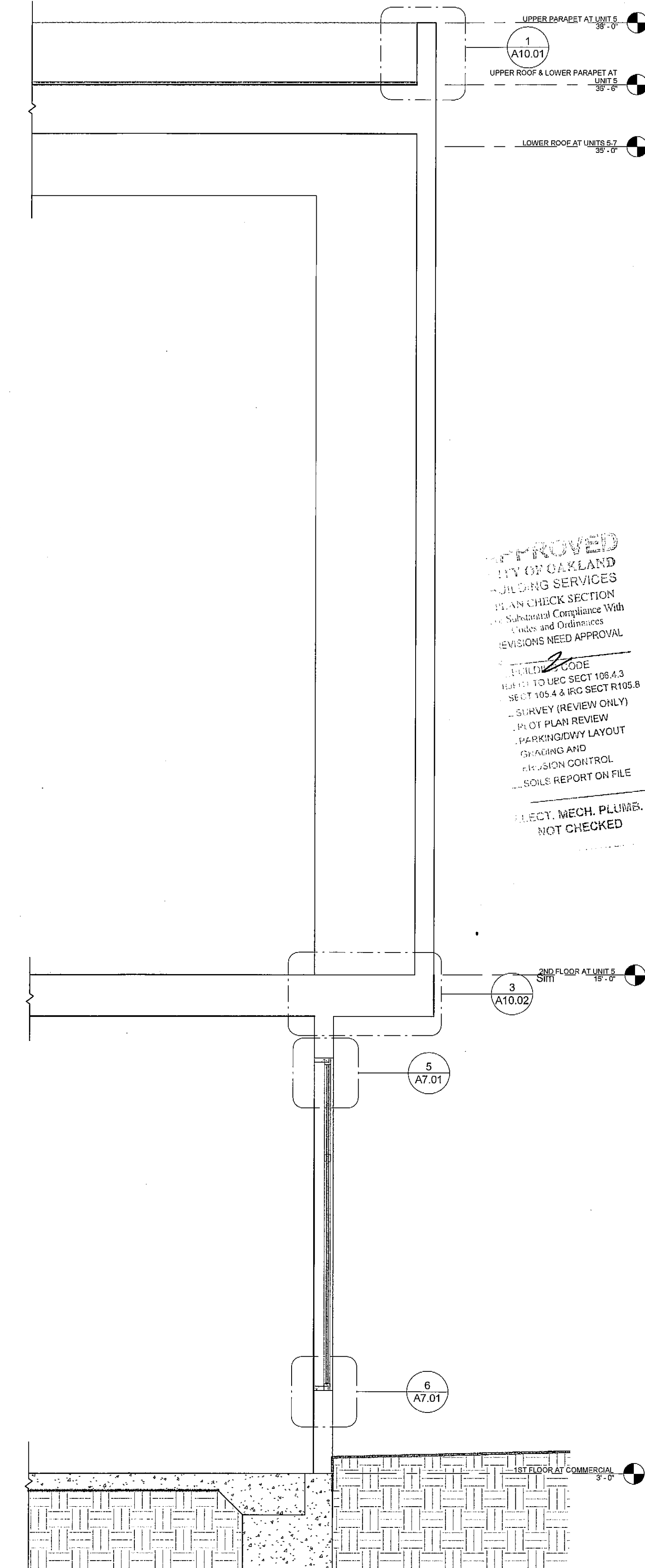
**APPLICANT COPY**

PROJECT NUMBER: 0714  
 DATE: 01/14/14  
 DRAWN BY: JH/JY  
 CHECKED BY: PB  
 SCALE: 1/2" = 1'-0"

**A8.00**



② UNIT B WALL SECTION 2  
1/2" = 1'-0"



① UNIT B WALL SECTION 1  
1/2" = 1'-0"

APPROVED  
BY THE CITY OF OAKLAND  
PLANNING SERVICES  
PLANNING CHECK SECTION  
Substantive Compliance With  
Codes and Ordinances  
REVISIONS NEED APPROVAL

**2012**  
BUILDING CODE  
SECTION 108.4.3  
SECTION 108.4.4 & FIG. SECTION 108.4.5  
SURVEY (REVIEW ONLY)  
FIG. 01 PLAN REVIEW ONLY  
STAIRWALKWAY LAYOUT  
CHANGING AND  
ELEVATION CONTROL  
... SOILS REPORT ON FILE

ELECT. MECH. PLUMB.  
NOT CHECKED

ARCHITECTURE

**PHILIP BANTA & ASSOCIATES**

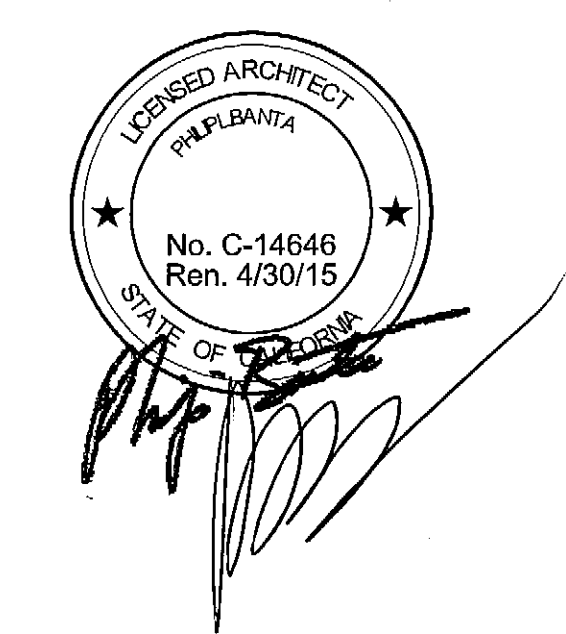
3550 HOLUIS STREET  
EMERYVILLE, CALIFORNIA 94609

TEL: 510.654.3253  
FAX: 510.654.3259  
www.bantadesign.com

REVISIONS:  ISSUES:

No.	Description	Date
1/1	1ST PLAN CHECK REVIEW	01/14/14
(1)	BUILDING PERMIT	12/12/13

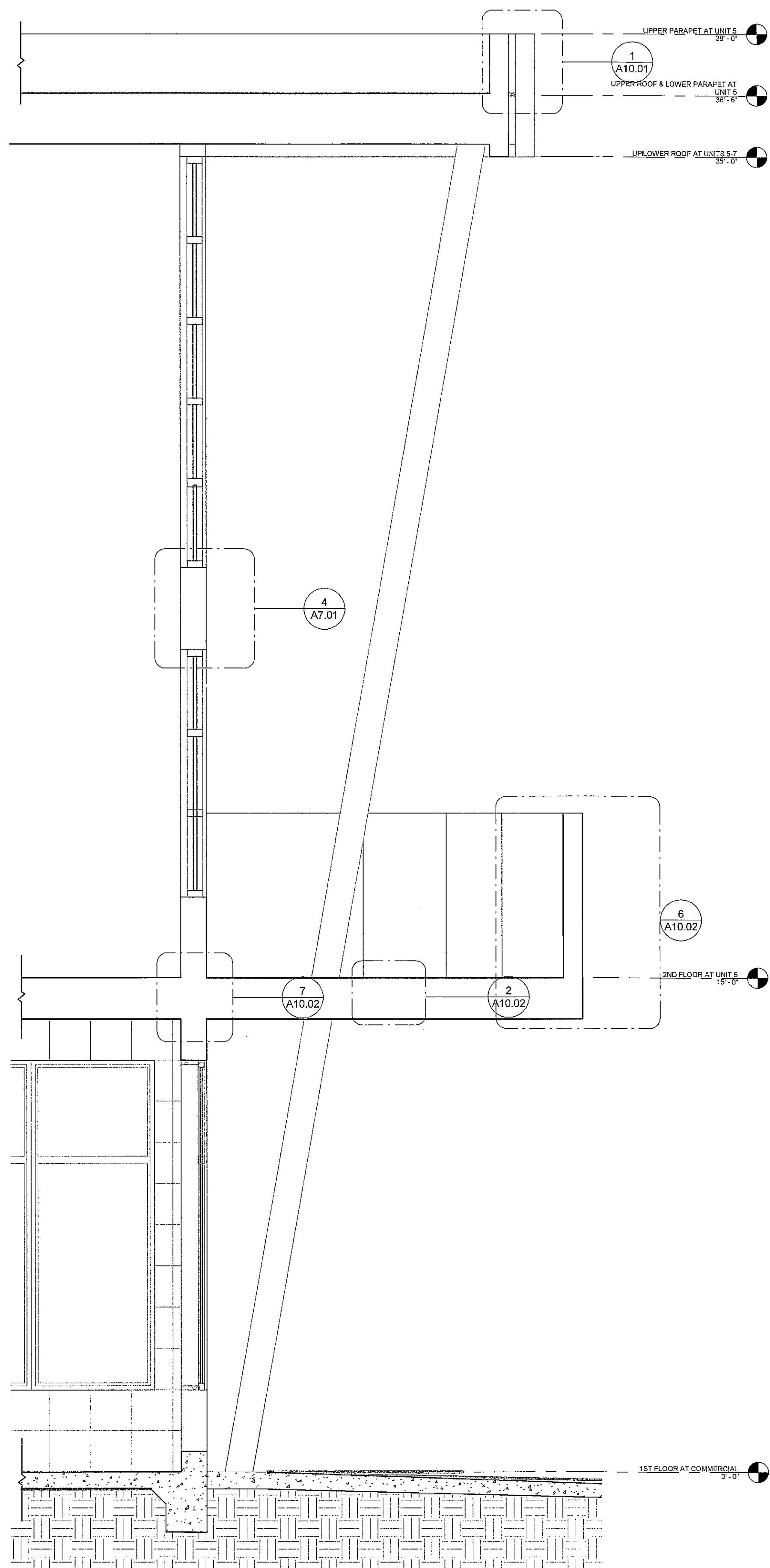
PROJECT:  
**35th @ School**  
Oakland, CA 94619



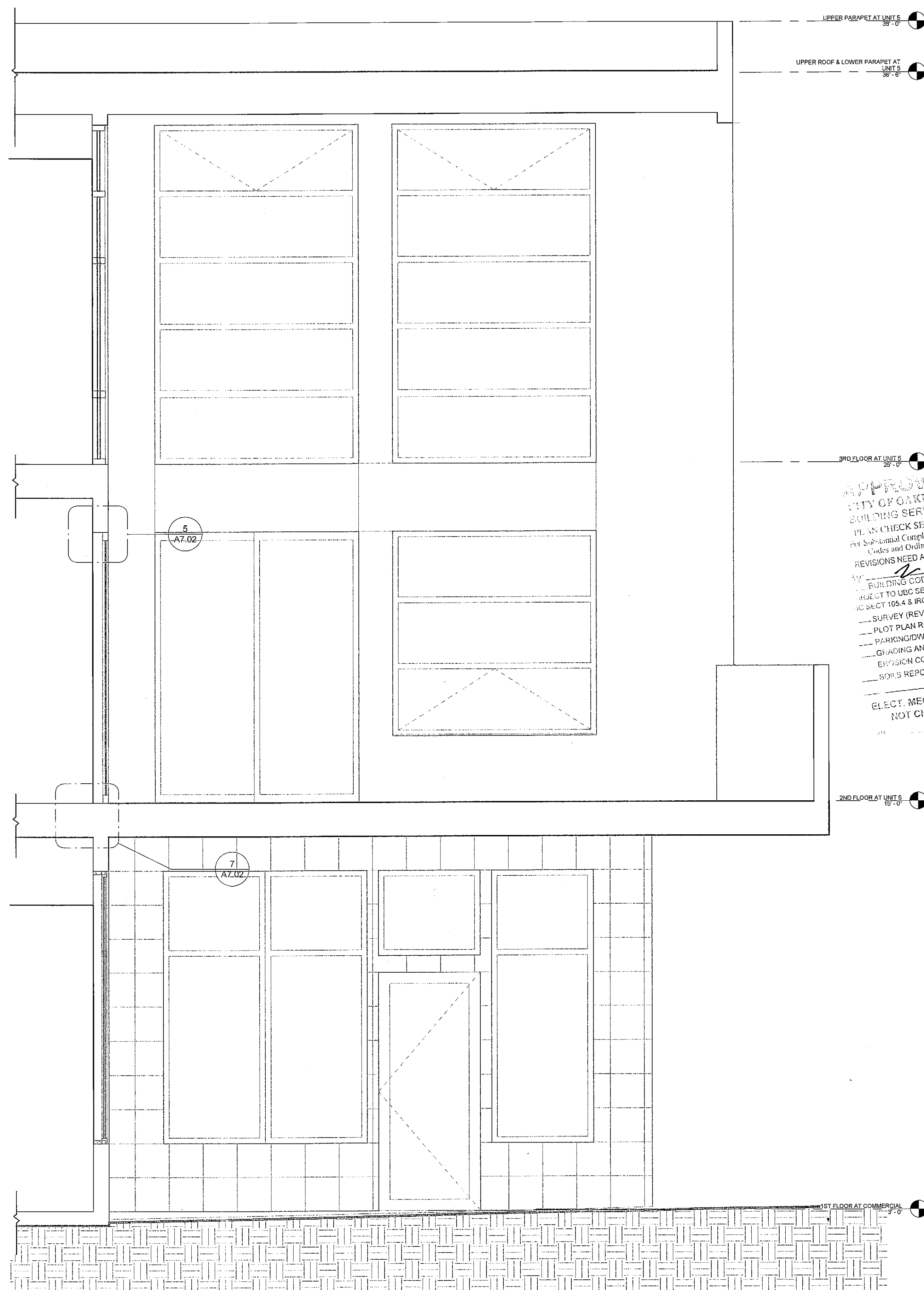
SHEET DESCRIPTION:  
**WALL SECTIONS**

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JH/JY  
CHECKED BY: PB  
SCALE: 1/2" = 1'-0"

**A8.01**



② UNIT B WALL SECTION 4  
1/2" = 1'-0"



① UNIT B WALL SECTION 3  
1/2" = 1'-0"

APPROVED  
CITY OF OAKLAND  
BUILDING SERVICES  
PL. CHECK SERVICES  
REVISIONS NEED APPROVAL  
REVISIONS:  
BUILDING CODE  
SUBJECT TO UDC SECT 106A.3  
(1) BUILDING PERMIT  
SURVEY (REVIEW ONLY)  
PLOT PLAN REVIEW  
PARKING/LAND LAYOUT  
GRADING AND  
EROSION CONTROL  
SPA'S REPORT ON FILE  
ELECT. MECH. PLUMB.  
NOT CHECKED

ARCHITECTURE

**PHILIP BANTA & ASSOCIATES**

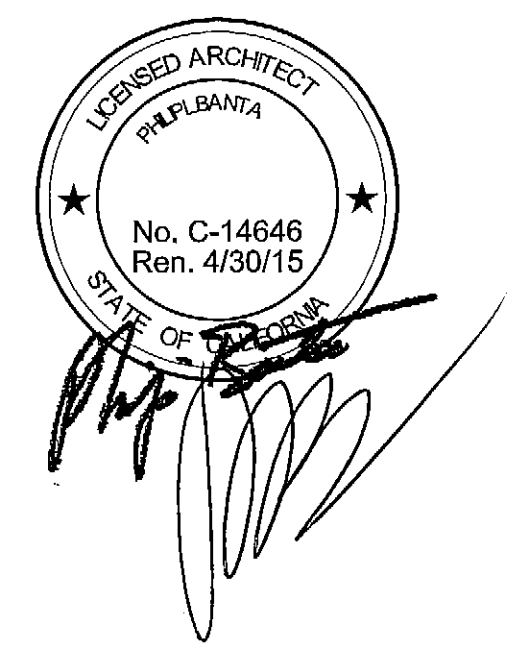
6050 HOLLIS STREET  
EMERYVILLE, CALIFORNIA 94608

TEL: 510.654.3255  
FAX: 510.654.3259  
www.bantadesign.com

REVISIONS:  ISSUES:

No.	Description	Date
(1)	1ST PLAN CHECK REVIEW	01/14/14
(1)	BUILDING PERMIT	12/12/13

PROJECT:  
**35th @ School**  
Oakland, CA 94619



SHEET DESCRIPTION:  
**WALL SECTIONS**

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JH/JY  
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SCALE: 1/2" = 1'-0"

**A8.02**

12/26/2013 12:23:05 PM

**ACOUSTICAL CONTROL REQUIREMENTS**

1.0 GENERAL REQUIREMENTS (CALIFORNIA CODE OF REGULATIONS, TITLE 24)

1. ALL SOUND-RATED ASSEMBLIES, INCLUDING PARTY WALLS, CORRIDOR WALLS, PLUMBING WALLS AND DROPPED CEILING ASSEMBLIES, SHOULD INCLUDE BATT INSULATION AND ACOUSTICAL CAULKING AROUND THE PERIMETER.

2.0 PARTY WALL, DIVISION WALL AND FLOOR/CEILING FRAMING

1. STUDS SUPPORTING OPPOSING FACES IN DOUBLE STUD OR STAGGERED STUD ASSEMBLIES SHALL NOT BE CONNECTED ACROSS TOP PLATES OR AIR GAP. NO RIGID MATERIAL OF ANY KIND MAY CONNECT OPPOSING STUDS.  
2. STUDS SHALL NOT OVERLAP PLATES OF PARTY OR DIVISION WALLS. KNOCK-OUTS, WARRIED LUMBER, SPLINTERED WOOD, SPLICES, CHIPS, AND SAW CUTS SHALL NOT BE PERMITTED AT VERTICAL OR HORIZONTAL PARTY WALL CONNECTIONS.  
3. FRAMING AT BUILT-UP CORNERS AND JOISTS TO WALL CONNECTIONS ALONG PARTY WALLS SHALL FIT TIGHTLY WITHOUT AIR GAPS. SPECIAL CARE SHALL BE TAKEN SO THAT DRY WALL NAILED BLOCKING MEETS THIS CONDITION BETWEEN JOISTS.

4. DOUBLE BLOCKING BETWEEN CEILING JOISTS SHALL BE POSITIONED TO ELIMINATE FLANKING OF SOUND OVER PARTY OR DIVISION WALLS AT THE JOISTS.  
5. CONCRETE POUR MATERIAL SHALL NOT FLOW ONTO PARTY WALL SOLE PLATES. CONCRETE SHALL NOT BE POURED ONTO OR INTO PARTY WALL SEPARATION CAVITIES BETWEEN PLATES.  
6. ALL WALL INSULATION SHALL BE SNUGLY FITTED AND/OR STAPLED BETWEEN STUDS.

7. GYPSUM WALLBOARD SHOULD CONTINUE TO THE ROOF LINE ON ONE SIDE OF THE WALL TO AVOID FLANKING OF SOUND THROUGH THE ATTIC SPACE.  
8. MAINTAIN A 1/4" GAP AT ALL PARTY WALL OR DIVISION WALL PERIMETERS AND FILL THE GAP WITH ACOUSTICAL CAULK.

9. CAULKING FOR ALL PARTY OR DIVISION WALLS SHALL BE USED IN STRICT CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS.

10. WHERE TWO LAYERS OF GYPSUM WALLBOARD OR SHEATHING ARE REQUIRED ON ONE SIDE OF A COMMON WALL, THE JOINTS BETWEEN THE SECOND LAYER OF WALLBOARD MUST BE STAGGERED WITH RESPECT TO THE JOINTS OF THE FIRST LAYER, I.E., THE JOINTS MUST NOT OVERLAP.

3.0 FLOOR/CEILING ASSEMBLIES

1. ALL INSULATION SHALL BE SNUGLY FITTED AND/OR STAPLED BETWEEN THE JOISTS.  
2. MAINTAIN A 1/4" GAP AT ALL CEILING PERIMETERS AND FILL WITH ACOUSTICAL CAULK.  
3. CAULKING FOR ALL FLOOR/CEILING ASSEMBLIES SHALL BE USED IN STRICT CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS.

4. WALLS SHOULD BE INSTALLED BEFORE THE RESILIENT CHANNELS TO ENSURE THE CHANNELS REMAIN TO THE OUTSIDE OF THE WALL TO ALLOW THE CEILING TO "FLOAT" OR MOVE VERTICALLY WITHOUT HINDERANCE.  
5. ALL SUB-FLOOR SHALL BE SEALED WITH PLYWOOD, OSB, GYPSUM BOARD OR SIMILAR SOLID MATERIAL AND ACOUSTICAL CAULKING SHALL BE PERFORMED AROUND THE PENETRATOR.

4.0 CAULKING

1. WHEN INSTALLING THE GYPSUM WALLBOARD PROVIDE A 3/16" TO 1/4" WIDE GAP AROUND THE ENTIRE PERIMETER OF ALL COMMON WALLS AND COMMON CEILINGS. THE GAP MUST THEN BE FILLED WITH A CONTINUOUS BEAD OF NON-HARDENING CAULKING COMPOUND OR ACOUSTICAL SEALANT.

2. IF MULTIPLE LAYERS OF GYPSUM BOARD ARE APPLIED TO A WALL OR CEILING SURFACE THE CAULKING MUST BE PERFORMED ON EACH LAYER.  
3. AT ALL SURFACE PENETRATIONS IN COMMON WALLS OR COMMON CEILINGS FOR SUCH ITEMS AS ELECTRICAL BOXES, LIGHT FIXTURES, PLUMBING LINES, ETC., LEAVE A 3/16" TO 1/4" GAP IN THE GYPSUM BOARD AROUND THE FITURE, AND THEN FILL THE GAP WITH A NON-HARDENING CAULKING COMPOUND OR ACOUSTICAL SEALANT. IN ADDITION THE BACKS OF ALL ELECTRICAL BOXES, TELEPHONE BOXES, MEDICINE CABINETS, AND OTHER FINISHED ITEMS MUST BE INSET INTO A COMMON WALL MUST BE COVERED WITH AN AIR-TIGHT SHEETROCK HOUSING OR WITH HEAVY MASTIC MATERIAL, SUCH AS GARDOLIN, TO SEAL THEM TO THE SURFACE.

4. PROVIDE AIR-TIGHT CONSTRUCTION AT ALL EXTERIOR WALLS WITH ACOUSTICAL OR OTHER NON-HARDENING SEALANT AT FLOOR PLATES.  
5. CAULK ENTRY DOOR THRESHOLDS AS THEY ARE PLACED.  
6.0 RESILIENT CHANNELS

1. ATTACHMENT SCREWS SHALL NOT BE LOCATED COINCIDENT WITH FRAMING.  
2. RESILIENT CHANNELS SHALL BE ATTACHED TO WOOD OR HEAVY GAUGE METAL FRAMING ONLY USING SCREWS. DO NOT ATTACH RESILIENT CHANNELS TO LIGHT GAUGE METAL FRAMING. NAILING RESILIENT CHANNELS IS NOT PERMITTED.  
3. WHEN INSTALLING THE RESILIENT CHANNEL TO THE PERIMETER JOISTS USE THE PRE-DRILLED MOUNTING HOLES IN THE CHANNELS FOR ATTACHMENT TO FRAMING.  
4. THE ENDS OF THE RESILIENT CHANNELS MUST NOT BUTT UP AGAINST ADJOINING WALL SURFACES, I.E. CUT THE CHANNEL TO ALLOW A 1/2 TO 1 IN. SPACE BETWEEN THE END OF THE CHANNEL AND WALL EDGES OR CORNERS. DO NOT OVERLAP RESILIENT CHANNELS AT SOME LOCATIONS, THE RESILIENT CHANNELLED MAY NEED TO BE SPliced TO ENCOMPASS THE ENTIRE WIDTH OF A LONG WALL OF CEILING WHERE THIS OCCURS, SPlice THE RESILIENT CHANNELS AT A JOIST OR STUD AND OVERLAP BUTT ENDS NO MORE THAN 1-1/2 INCHES.  
5. RESILIENT CHANNELS SHALL BE INSTALLED AT 24" O.C. WHEN SUPPORTING ONE LAYER OF GYPSUM BOARD AND AT 16" O.C. WHEN SUPPORTING TWO LAYERS OF GYPSUM BOARD.  
6. RESILIENT CHANNELS ATTACHED TO WALL FRAMING SHALL BE ATTACHED WITH THE GYPSUM BOARD MOUNTING FLANGE GAP FACING UP.  
7. HEAVY ITEMS, SUCH AS CABINETS, MIRRORS, ARTWORK, SOLID DUCTING, ETC. SHALL NOT BE SUPPORTED FROM OR THROUGH A RESILIENT WALL OR CEILING. LIGHTWEIGHT WIRE FLEX DUCT MAY BE SUPPORTED BY A RESILIENT CEILING USING MOLLY BOLTS IN THE GYPSUM BOARD ONLY. NOTHING MAY PENETRATE A RESILIENT WALL OR CEILING FROM THE SURFACE SIDE AND CONNECT DIRECTLY TO THE UNDERLYING FRAMING. ITEMS THAT ARE AN INTEGRAL PART OF THE STRUCTURE, SUCH AS ELECTRICAL BOXES, FIRE SPRINKLERS, ETC., ARE EXCEPTED FROM THE REQUIREMENT.

6.0 PLUMBING

1. ALL PLUMBING LINES MUST BE ISOLATED FROM SURROUNDING SUPPORTS WITH PLUMBING ISOLATORS. ISOLATORS WITH A FLEXIBLE NEOPRENE OR SOFT PADDING INSERT, SUCH AS ACOUSTIC PLUMB ISOLATORS, ARE PREFERABLE TO THOSE HAVING A ONE-PIECE PLASTIC CONSTRUCTION. THE PLUMBING LINES, INCLUDING DRAIN LINES, MUST NOT REST AGAINST ANY PART OF THE SURROUNDING STRUCTURE, SUCH AS JOISTS, STUDS, OR WALLBOARD, IN ORDER FOR THE PLUMBING ISOLATOR TO BE EFFECTIVE.  
2. AVOID INSTALLING PLUMBING LINES THROUGH MAIN LIVING SPACE WALLS WHEREVER POSSIBLE.  
3. PIPING AND/OR DUCTING WITHIN FLOOR/CEILING ASSEMBLIES SHALL BE SUPPORTED FROM THE JOISTS AND COMPLETELY ISOLATED FROM THE CEILING.  
4. THE STUD BAY OR JOIST CAVITY SURROUNDING THE SUPPLY AND WASTE PIPING SHALL BE FITTED WITH OPEN-FACED FIBERGLASS OR EQUIVALENT SOUND ABSORPTIVE MATERIAL.  
5. COMMON SUPPLY OR DRAIN LINES SHALL NOT CROSS THE GAP BETWEEN PARTY WALLS OR CONNECT TWO OPPOSING SIDES OF A PARTY WALL.  
6. CAULKING SHALL BE PERFORMED AT ALL PIPE PENETRATIONS IN COMMON WALLS AND CEILINGS, AS DESCRIBED ABOVE.  
7. USE CAST IRON DRAIN LINE THROUGHOUT THE ENTIRE CONSTRUCTION. SHOULD PLASTIC OR COPPER DRAIN LINES BE USED, THE PIPE MUST BE COMPLETELY WRAPPED WITH A HEAVY MASTIC MATERIAL, SUCH AS LOWRY PIPE WRAP TAPE OR EQUIVALENT.  
8. ALL PENETRATIONS IN THE SUB-FLOOR FOR PLUMBING MUST BE SEALED WITH SHEETROCK, PLYWOOD, ETC. AND CALKED WITH ACOUSTICAL SEALANT.  
9. LIMIT WATER FLOW RATES TO 4 FT. PER SEC. IN 1/2" AND 3/4" PIPES AND UP TO 8 FT. PER SEC. IN LARGER PIPES. MAINTAIN THE WATER PRESSURE AT FIXTURES TO 80 PSI OR LOWER.  
10. FOR REFRIGERATOR "ICE BOX" INSTALLATIONS FOLLOW GUIDELINES FOR ELECTRICAL BOXES OUTLINED IN 8.0.  
7.0 MECHANICAL DUCTING

1. BATHROOM EXHAUST FAN HOUSINGS WHICH ARE MOUNTED WITHIN A SEPARATION ASSEMBLY SHALL BE BOXED IN WITH GYPSUM BOARD, CALKED AIR-TIGHT AND SURROUNDED WITH FIBERGLASS OR EQUIVALENT SOUND ABSORPTIVE MATERIAL.  
2. SOLID WALL HVAC EQUIPMENT AND/OR DUCTS, EXCEPT LIGHTWEIGHT WIRE FLEX DUCTS, SHALL NOT BE SUPPORTED FROM OR THROUGH A RESILIENT CEILING. SEE 8.0 - 10 ABOVE. MECHANICAL UNITS IN DROPPED CEILING CAVITIES SHALL NOT BE SUPPORTED BY THE UPPER FLOOR FRAMING UNLESS RESILIENT OR VIBRATION ISOLATING HANGERS ARE USED.  
3. MECHANICAL VENTILATION DEVICES, REQUIRED WHEN WINDOWS ARE CLOSED FOR NOISE CONTROL, SHALL NOT COMPROMISE THE ACOUSTICAL INTEGRITY OF THE BUILDING SHELL.

8.0 ELECTRICAL

1. TELEVISION AND TELEVISION OUTLETS SHALL NOT BE PLACED IN PARTY OR DIVISION WALLS UNLESS SEALED WITH LOWRY PADS OR BOXED WITHIN THE STUDS CAVITY.  
2. IN THE EVENT IT IS NOT PRACTICAL OR POSSIBLE TO PLACE CONVENIENCE OUTLETS IN DIFFERENT STUD BAYS AS SPECIFIED IN ITEM 2A ABOVE, THEY SHALL BE SERVICED FROM EACH OTHER AS MUCH AS POSSIBLE AND IN NO CASE SHALL THERE BE PHYSICAL CONTACT BETWEEN THE TWO ELECTRICAL BOXES. ITEMS 8.3B, 8.3C & 8.3D BELOW STILL APPLY.

8.0 ELECTRICAL (CONTINUED)

3. CONVENIENCE OUTLETS IN OPPOSITE FACES OF PARTY, PLUMBING OR DIVISION WALLS SHALL BE INSULATED AS FOLLOWS:  
A. ELECTRICAL BOXES, SWITCHES, OUTLETS, WALL FIXTURES, ETC.) IN OPPOSITE FACES OF PARTY OR DIVISION WALLS SHALL BE SEPARATED HORIZONTALLY BY NOT LESS THAN 24 INCHES (I.E. IN DIFFERENT STUD BAYS).  
B. MASTIC SEALER (LOWRY PADS OR EQUIVALENT) SHALL BE WRAPPED AROUND EACH SIDE, TOP AND BOTTOM OF ALL ELECTRICAL BOXES IN PARTY WALLS. PAD MUST MAKE CONTINUOUS CONTACT WITH BACK OF BOX.  
C. ELECTRICAL BOXES SHALL BE BACKED BY R-11 FIBERGLASS FAS NEEDED TO COMPLETELY FILL THE STUD BAY.  
D. KNOCKOUT PLATES ON ELECTRICAL BOXES IN PARTY OR DIVISION WALLS SHALL NOT BE BENT OR REMOVED WHERE CONDUITS ARE NOT CONNECTED TO THE BOX.  
E. WHEN BACK TO BACK OUTLETS CAN NOT BE AVOIDED PLACE A LAYER OF 5/8" TYPE 'X' GYPSUM BOARD BETWEEN THE OUTLET BOXES. CONNECT GYPSUM BOARD TO ONE BOX ONLY.  
9.0 KITCHENS, BATHROOMS AND LAUNDRY ROOMS

1. THE PARTY WALL BEHIND A TUB AND/OR SHOWER ASSEMBLY SHALL BE CONSTRUCTED CONSISTENT WITH THE PARTY WALL SPECIFICATIONS. WALLBOARD SHALL BE INSTALLED BEHIND ALL TUBS AND/OR SHOWERS WHICH ARE ADJACENT TO PARTY WALLS.  
2. VOIDS BETWEEN THE WALL, FLOOR, AND FIBERGLASS OR ACRYLIC TUB/SHOWER UNITS SHALL BE COMPLETELY FILLED WITH FIBERGLASS INSULATION OR EQUIVALENT SOUND ABSORPTIVE MATERIAL.  
3. CABINET DOORS SHALL BE INSTALLED WITH SOFT DDOOR BUMPERS.  
4. CABINETS SHALL NOT BE INSTALLED ON RESILIENT CHANNEL WALLS.  
5. THE GARBAGE DISPOSAL SHALL BE "QUIET" WITH AN ISOLATED MOTOR AND FLEXIBLE CONNECTION.

10.0 GARAGE NOISE CONTROL

1. ANY GRATES IN THE TRAVEL PATH NEAR THE GARAGE ENTRANCE SHOULD HAVE CASKETING ALONG THE PERIMETER AND BE SECURELY ATTACHED TO REDUCE RATTLING WHEN VEHICLES DRIVE OVER THEM.

-REFER TO ATTACHED INTERPELLING ACOUSTICAL RECOMMENDATION LETTER DATED MARCH 27 2008 AND TITLE 24 ACOUSTICAL EVALUATION DATED MARCH 19 2008 FOR MORE ACOUSTICAL INFO.

**FIRE BLOCKING AND DRAFT STOPPING NOTES**

**FIRE BLOCKS**

**REQUIRED LOCATIONS**

1. CONCEALED SPACES OF WALLS AND PARTITIONS INCLUDING FURRED SPACES, AT 10'-0" INTERVALS BOTH HORIZONTAL AND VERTICAL.  
2. AT INTERSECTIONS BETWEEN VERTICAL AND HORIZONTAL.  
3. AT CONCEALED SPACES BETWEEN STAIR STRINGERS AT TOP AND BOTTOM OF STAIR CASES.  
4. IN OPENINGS AROUND PIPES, DUCTS, CHIMNEYS, FIREPLACES AT CEILINGS AND FLOORS.

**CONSTRUCTION:**

1. 2" NOMINAL LUMBER, OR 2 LAYERS OF 1" LUMBER WITH BROKEN LAP'S OR 1 LAYER OF 3/4" STRUCTURAL PANEL WITH JOINTS BACKED BY 3/4" STRUCTURAL PANEL.  
2. GYPSUM BOARD, CEMENT FIBER BOARD.  
3. BLANKETS OF MINERAL FIBER (IF TESTED FOR USE). (NO LOOSE FILL INSULATION.)

**DRAFT STOPS**

**REQUIRED LOCATIONS:**

1. IN FLOOR/CEILING ASSEMBLIES TO BREAK THE AREA IN TO 3000 SF. AREAS SO THAT NO DIMENSION EXCEEDS 100'-0".  
2. AT OPENINGS THROUGH THE DRAFT STOPS SUCH AS DOORWAYS, OVERHANGS, AND OTHER CONCEALED SPACES. THE DRAFT STOPS SHALL BE IN LINE WITH THE WALLS SEPARATING THE UNITS AND FROM OTHER USES. THEY SHALL BE INSTALLED TO BREAK DOWN AREAS INTO 3000 SF. AREAS WITH 100' FOOT MAXIMUM DIMENSIONS.

**CONSTRUCTION:**

1. DRAFT STOPPING MATERIALS SHALL NOT BE LESS THAN 5/8" GYPSUM BOARD, 3/8" STRUCTURAL PANELS OR PARTICLE BOARD.  
2. ANY OPENINGS THROUGH THE DRAFT STOPS SHALL BE PROTECTED BY SELF-CLOSING DOORS WITH AUTOMATIC LATCHES. VENTILATION FOR THE SPACES SHALL BE MAINTAINED.

NOTE: PROVIDE A 1" GAP BETWEEN THE RISERS & PARTY WALL FINISH

3 1/2" X 11 7/8" P LAM

(2) LAYERS 5/8" G.W.B. TYPE 'X'

FIRE BLOCKING

(1) LAYER 5/8" G.W.B. TYPE 'X'

(2) LAYERS OF 1/2" TYPE 'X' GYPSUM BOARD

HOLD GYPSUM BOARD 1/4" FROM CEILING AND CAULK WITH FIRE-RATED SEALANT

(2) LAYERS OF 1/2" TYPE 'X' GYPSUM BOARD

(3) LAYERS OF 5/8" TYPE 'X' GYPSUM BOARD

PAINTED BASEBOARD

3/4" PLYWOOD SHEATHING

2 LAYERS OF 5/8" GYP. BD. EACH SIDE

HOLD GYPSUM BOARD 1/4" FROM CEILING AND CAULK WITH FIRE-RATED SEALANT

2 LAYERS OF 5/8" GYP. BD. EACH SIDE

STRUCTURAL PLYWOOD SHEATHING, SSD

HOLD GYPSUM BOARD 1/4" FROM TOP OF SLAB AND FILL WITH ACOUSTICAL INSULATION

CONCRETE SLAB, SSD

PLYWOOD SHEAR, SSD

(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON INTERIOR SIDE

PLYWOOD PANELING, SEE STRUCTURAL DRAWINGS

ACOUSTICAL INSULATION, R-13

WALL, SEE PLANS

(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON INTERIOR SIDE

PLYWOOD SHEAR, SSD

(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON INTERIOR SIDE

PLYWOOD SHEAR, SSD

(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON INTERIOR SIDE

ROOFING TYPICAL, SEE SPECIFICATIONS FOR TYPE AND METHOD OF INSTALLATION

PLYWOOD SHEATHING SSD

PLYWOOD SHEATHING SSD

R-30 GLASS FIBER INSULATION

(2) LAYERS OF 5/8" TYPE 'X' GYPSUM BOARD

BASE LAYER APPLIED AT RIGHT ANGLES TO JOIST OR TRUSS 24" O.C. WITH 1 1/4" TYPE 'S' OR TYPE W DRYWALL SCREWS @ 24" O.C.

FACE LAYER APPLIED WITH 1 7/8" TYPE 'S' OR TYPE W SCREWS 12" O.C. AT JOINTS AND INTERMEDIATE JOIST OR TRUSS. FACE LAYER JOISTS OFFSET 24" FROM BASE LAYER JOISTS.

1 1/2" TYPE S DRYWALL SCREWS PLACED 2" BACK ON EITHER SIDE OF FACE LAYER END JOINTS, 12" O.C.

FLOOR DESIGN CRITERIA AND TEST DATA REFER TO THE FOLLOWING AND COMPLY WITH REQ. TEST ASSEMBLY ICC ES REPORT ESR 1153 ASSEMBLY B

FIRE RATING ONE HOUR

BELOW ROOF TOP MECHANICAL EQUIPMENT

NOTES

1. SEE SHEET A8.0 FOR FIRE BLOCKING, DRAFT STOP AND ACOUSTICAL REQUIREMENTS

2. PROVIDE RC CHANNELS AT ROOMS BELOW ROOF TOP MECHANICAL EQUIPMENT

TYPICAL ROOF/CEILING ASSEMBLY 3" = 1'-0"

PROVIDE FOR SLOPE AS SHOWN ON ROOF PLAN USING WOOD FRAMING

PROVIDE MINIMUM R-30 BATT INSULATION, MAINTAIN A MINIMUM OF 1" CLEAR BELOW THE PLYWOOD AND THE INSULATION

ROOFING MATERIAL

5/8" TAG PLYWOOD SHEATHING, SSD

WOOD JOISTS, SSD

PLYWOOD SHEAR, SSD

(2) LAYERS OF 1/2" TYPE 'X' GYPSUM BOARD

HOLD GYPSUM BOARD 1/4" FROM CEILING AND CAULK WITH FIRE-RATED SEALANT

(2) LAYERS OF 1/2" TYPE 'X' GYPSUM BOARD

(3) LAYERS OF 5/8" TYPE 'X' GYPSUM BOARD

PAINTED BASEBOARD

3/4" PLYWOOD SHEATHING

2 LAYERS OF 5/8" GYP. BD. EACH SIDE

HOLD GYPSUM BOARD 1/4" FROM CEILING AND CAULK WITH FIRE-RATED SEALANT

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STRUCTURAL PLYWOOD SHEATHING, SSD

HOLD GYPSUM BOARD 1/4" FROM TOP OF SLAB AND FILL WITH ACOUSTICAL INSULATION

CONCRETE SLAB, SSD

PLYWOOD SHEAR, SSD

(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON INTERIOR SIDE

PLYWOOD PANELING, SEE STRUCTURAL DRAWINGS

ACOUSTICAL INSULATION, R-13

WALL, SEE PLANS

(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON INTERIOR SIDE

PLYWOOD SHEAR, SSD

(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON INTERIOR SIDE

PLYWOOD SHEAR, SSD

(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON INTERIOR SIDE

FLOOR FINISH SEE SCHEDULES

3/4" TAG PLYWOOD SHEATHING (EXPOSURE 1)

1 JOIST, SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION

3 1/2" INCH THICK GLASS FIBER INSULATION OPTIONAL

(2) LAYERS OF 1/2" INCH THICK TYPE 'X' GYPSUM BOARD

NOTE: @ FLOOR SEPARATING COMMERCIAL USE FROM UNITS PROVIDE RESILIENT CHANNELS FASTENED TO THE JOISTS. THE COMMERCIAL TENANT SHOULD NOT BE ALLOWED TO DIRECT MOUNT SPEAKERS TO THE CEILING JOISTS OR WALL STUDS

FLOOR DESIGN CRITERIA AND TEST DATA REFER TO THE FOLLOWING AND COMPLY WITH REQ. TEST ASSEMBLY ICC ES REPORT ESR 1153 ASSEMBLY B

FIRE RATING ONE HOUR

TYPICAL FLOOR/CEILING ASSEMBLY 3" = 1'-0"

(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON INTERIOR SIDE

PLYWOOD PANELING, SEE STRUCTURAL DRAWINGS

THERMAL INSULATION, R-19 TYPICAL IN ALL EXTERIOR WALLS

7/8" CEMENT PLASTER OVER LATH AND 2 LAYERS OF 1/2" BUILDING PAPER

ADD 1 MORE LAYER OF 5/8" G.W.B. EACH SIDE FOR 2 HOUR WALL, WHERE NOTED

PLYWOOD SHEAR PANELING WHERE OCCURS, SEE STRUCTURAL DRAWINGS

ACOUSTICAL INSULATION TO BE PROVIDED ON BOTH SIDES OF THE DOUBLE SIDED WALL AT DEMISING CONDITIONS

2" AIR GAP FOR DEMISING WALL

(2) LAYERS 5/8" TYPE 'X' GYPSUM BOARD

PLYWOOD SHEAR PANELING WHERE OCCURS, SEE STRUCTURAL DRAWINGS

ACOUSTICAL INSULATION TO BE PROVIDED ON BOTH SIDES OF THE DOUBLE SIDED WALL AT DEMISING CONDITIONS

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PLYWOOD SHEAR PANELING WHERE OCCURS, SEE STRUCTURAL DRAWINGS

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PLYWOOD SHEAR PANELING WHERE OCCURS, SEE STRUCTURAL DRAWINGS

ACOUSTICAL INSULATION TO BE PROVIDED ON BOTH SIDES OF THE DOUBLE SIDED WALL AT DEMISING CONDITIONS

2" AIR GAP FOR DEMISING WALL

**GENERAL WALL NOTES**

1. SUPPLY AND INSTALL ADDITIONAL WALL AND/OR BRIDGING AS MAY BE REQUIRED FOR HEIGHT OF WALL BRACING SYSTEM DESIGN SHALL BE SUBMITTED TO THE ARCHITECT TO CONFIRM ACOUSTICAL PERFORMANCE IS NOT COMPROMISED.

2. WALL BRACING FOR ITEMS ATTACHED THROUGH GYPSUM BOARD SURFACES SEE DETAIL XXXX. CONTRACTOR SHALL SUPPLY AND INSTALL ALL STIFFENER, BRACING BRACKETS, AND SUPPORT BRACKETS AT TO FACILITATE THE INSTALLATION ALL CASEWORK, STAIR RAILINGS, TOILET ACCESSORIES, PARTITIONS, AND WALL MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL, AND MISC. EQUIPMENT.

3. GYPSUM BOARD INSTALLED TO CREATE 1-HOUR RATED WALLS SHALL TERMINATE AT STRUCTURE AND WHERE INTERSECTING 1-HOUR CEILINGS, TYPICAL 1-HOUR CONSTRUCTION THROUGHOUT WOOD FRAMED CONSTRUCTION.

4. GYPSUM BOARD INSTALLED TO CREATE 1-HOUR RATED SHAFTS, INCLUDING EXTERIOR BRACING WALLS, SHALL BE INSTALLED BETWEEN JOIST AND OTHER BUILDING COMPONENTS TO CREATE A CONTINUOUS 1-HOUR ASSEMBLY FROM PODIUM TO ROOF TOP. SEE DETAIL 8A.00.

5. WHERE A FIRE RATED ASSEMBLY IS INDICATED IN THESE DOCUMENTS, ALL ELEMENTS OF THE SPECIFIC APPROVED ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH THE SAME.

6. WALL FRAMING DIMENSIONS INDICATED ON DOCUMENTS ARE FROM FACE OF STUD (F.O.S.) UNLESS NOTED OTHERWISE.

7. ALL FRAMING MEMBERS SHALL BE INSTALLED TO PERMIT INSTALLATION OF PIPES, CONDUITS, AND DUCT WORK WITH A MINIMUM OF CUTTING AND NOTCHING WHERE CUTTING OCCURS FRAMING MEMBERS SHALL BE AUGMENTED WITH STEEL REINFORCEMENT SO THE STRUCTURAL INTEGRITY OF THE MEMBER IS RESTORED.

8. PROVIDE AND INSTALL ACOUSTICAL INSULATION IN ALL DEMISING, SHAFT, CORRIDOR AND PLUMBING WALLS. INSULATION REQUIREMENTS: 2X4 WALLS PROVIDE R-13 BATT INSULATION 2X6 OR LARGER WALLS R-19 BATT INSULATION FLOOR ASSEMBLY AT GARAGE LEVEL: R-30 BATT INSULATION FLOOR/CEILING ASSEMBLY: R-20 INSULATION

9. WHERE OFFSET STUDS, STRUCTURAL SHEATHING OR ADDITIONAL GYPSUM BOARD ARE REQUIRED TO CREATE OFFSETS ON PLANS, THE FINISH SURFACE SHALL BE FLUSH FROM CORNER OF ROOM TO CORNER OF ROOM. FLUSH CONDITION SHALL BE ACHIEVED BY FURRING THE WALL, UNLESS OTHERWISE NOTED.

10. SUPPLY AND INSTALL METAL BRACING MEMBERS TO FACILITATE GYPSUM WALL BOARD CORNERS, AND CASING BEADS WHERE GYPSUM WALL BOARD AND PLASTER FINISHES MEET WHERE DISSIMILAR FINISHES MEET PROVIDE A MINIMUM OF 3/16" SEPARATION WITH A 1/2" MOLD AND FILL WITH CAULKING COMPOUND. ALL WALLS, CEILINGS AND SOFFITS WHERE CORNERS ARE VISIBLE WITHIN A LIVING UNIT (EXCLUDING CLOSETS, LAUNDRY ROOMS) SHALL RECEIVE CORNER BEADS ON OUTSIDE CORNERS. INSIDE CORNERS SHOULD BE TAPERED SMOOTH TO MATCH THE BOARD CORNERS.

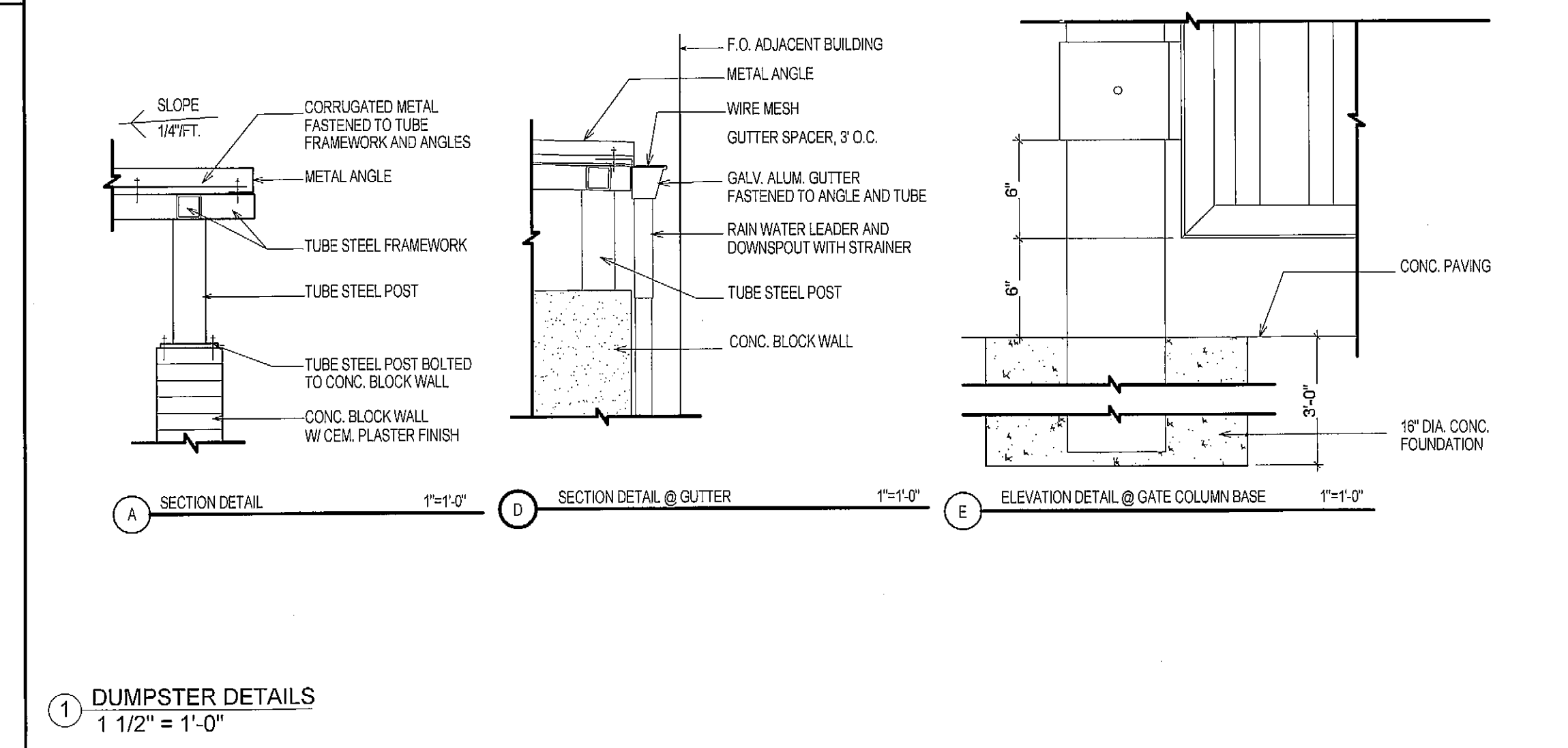
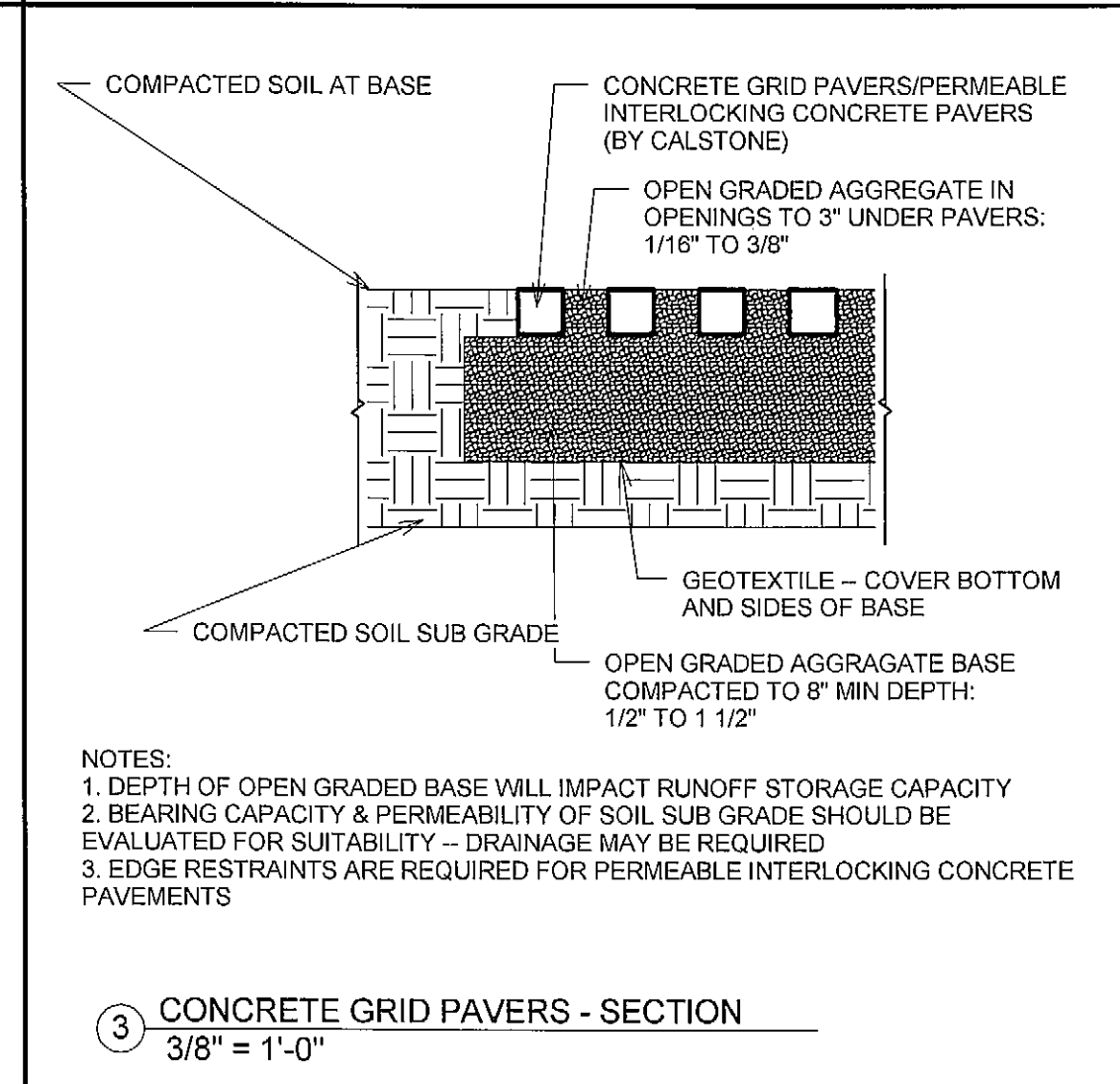
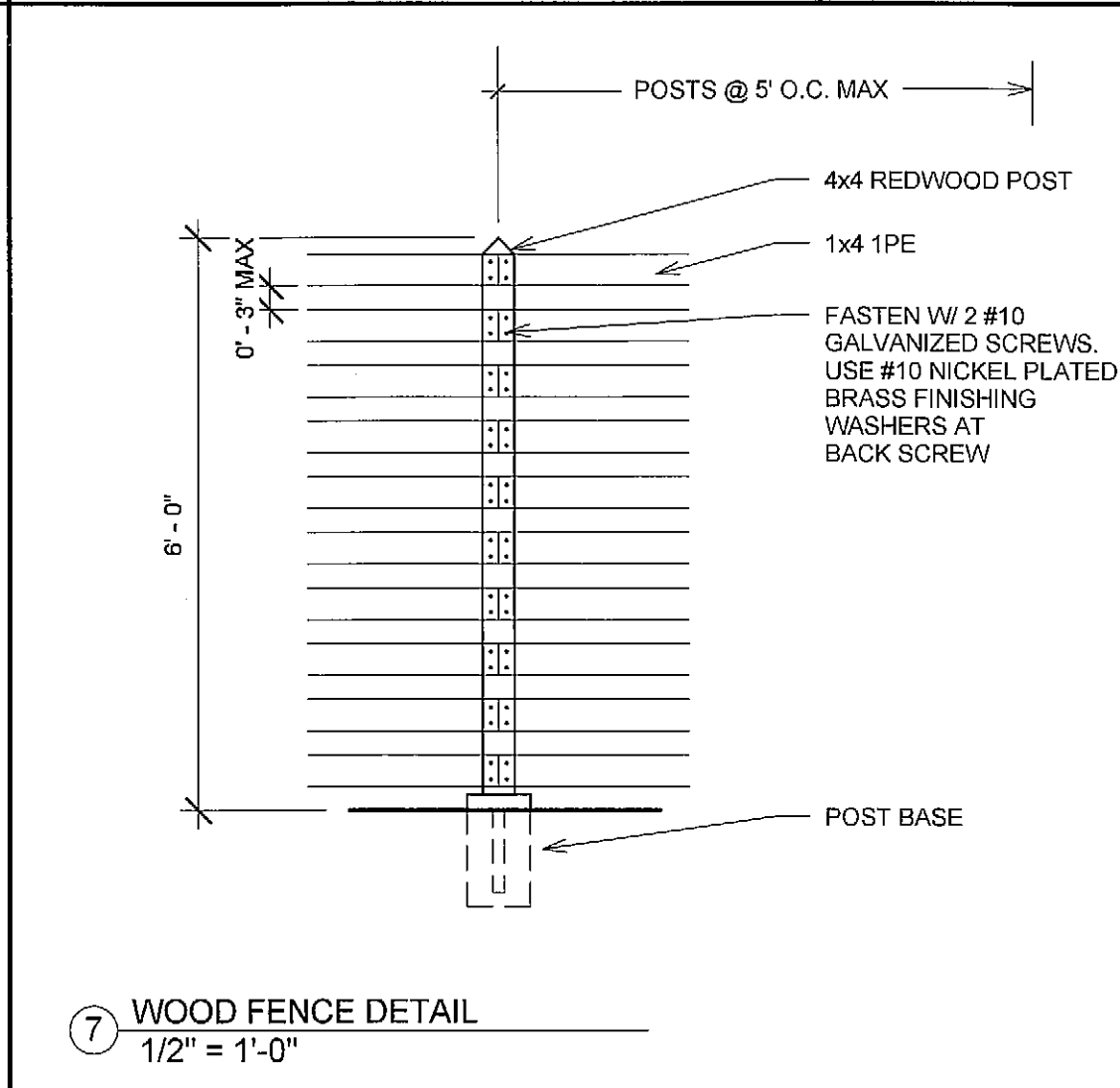
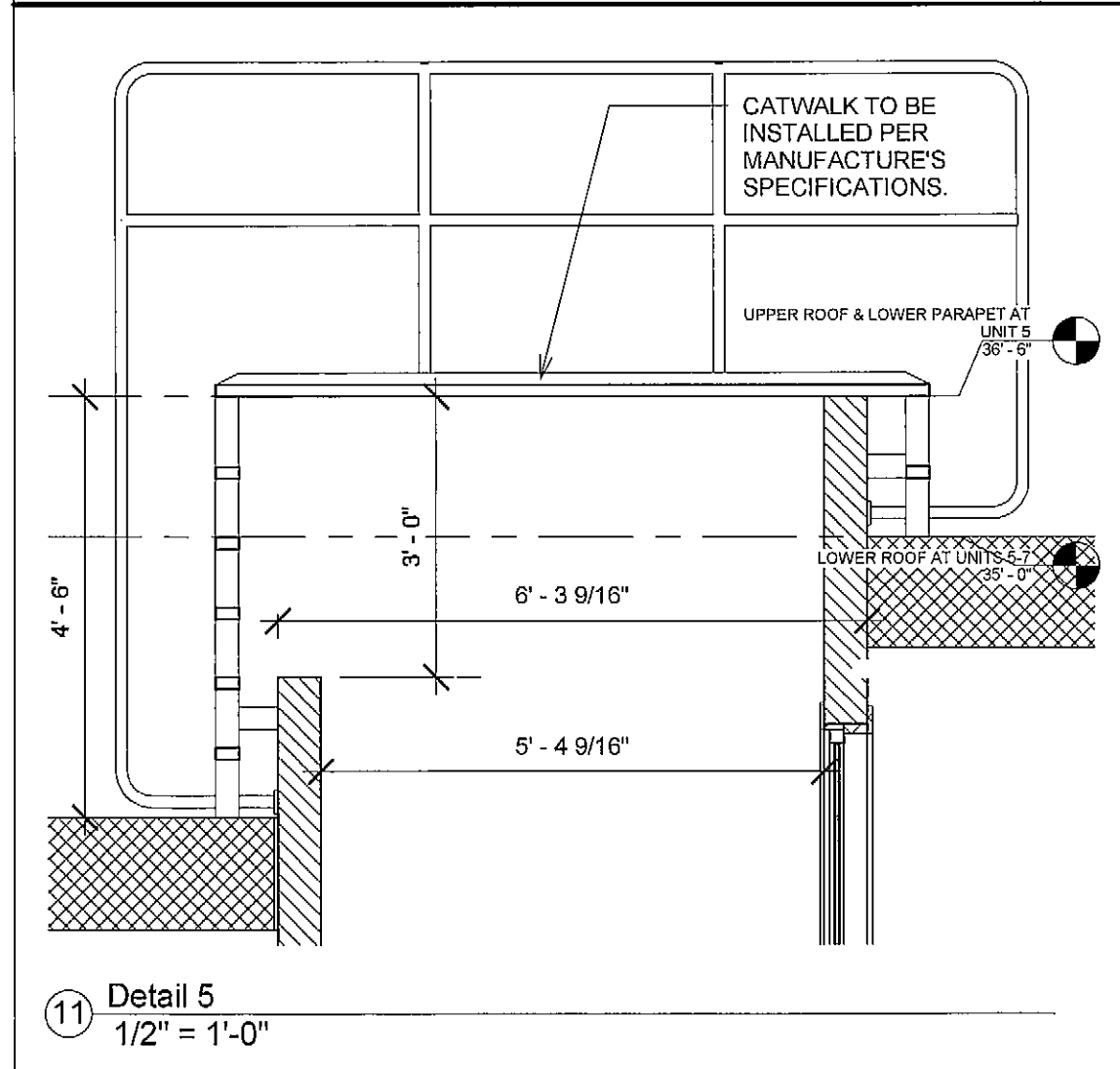
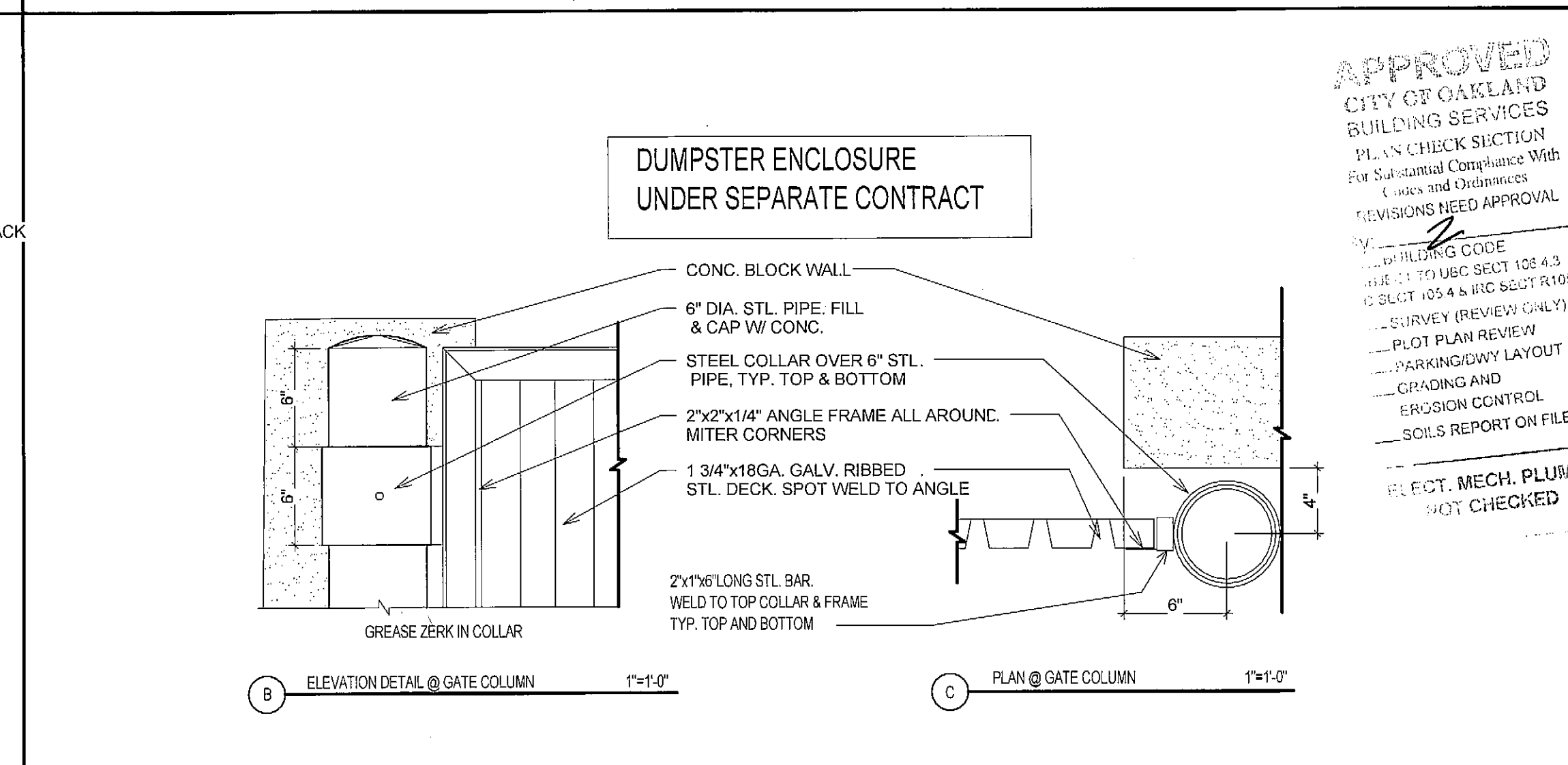
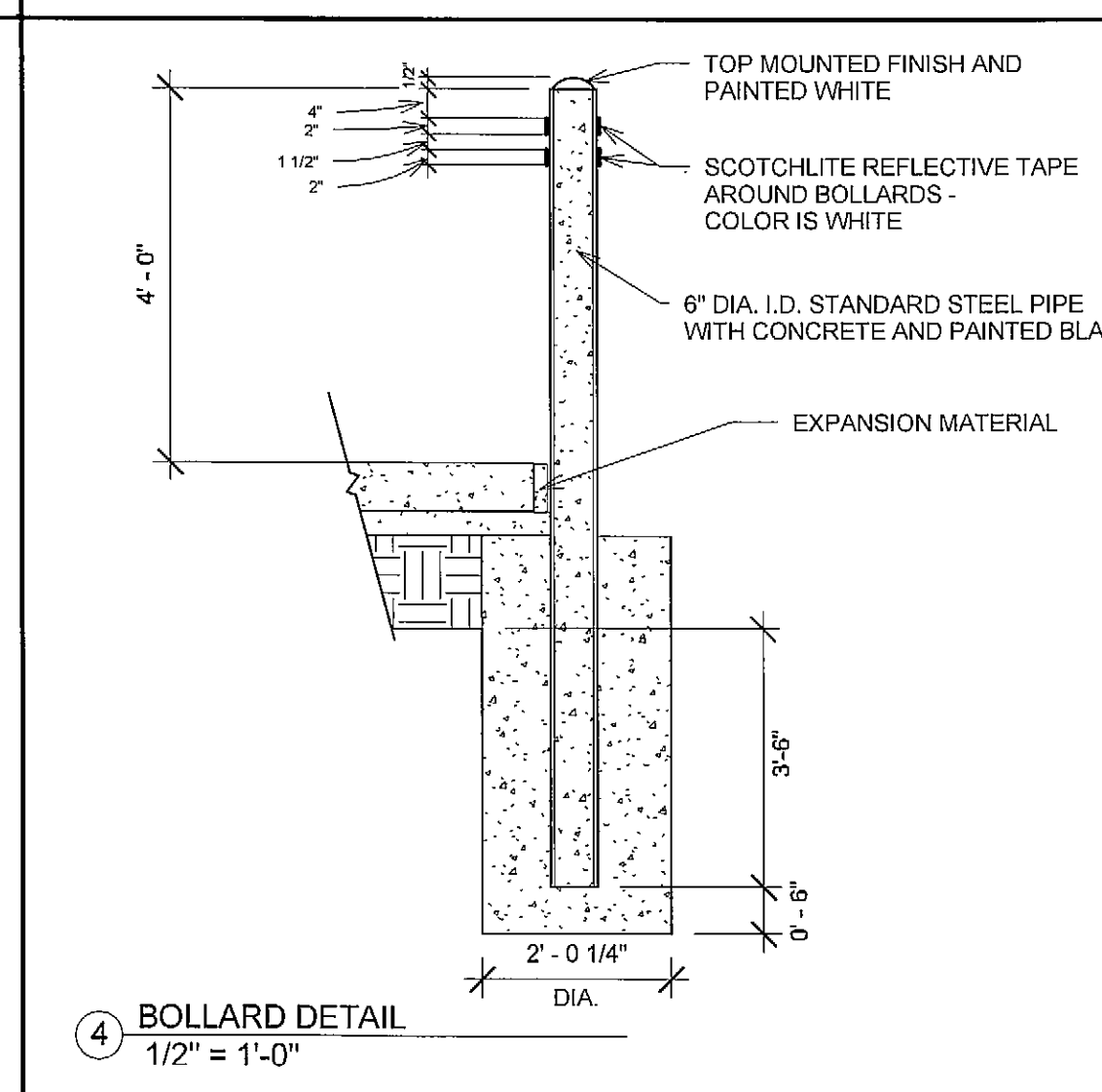
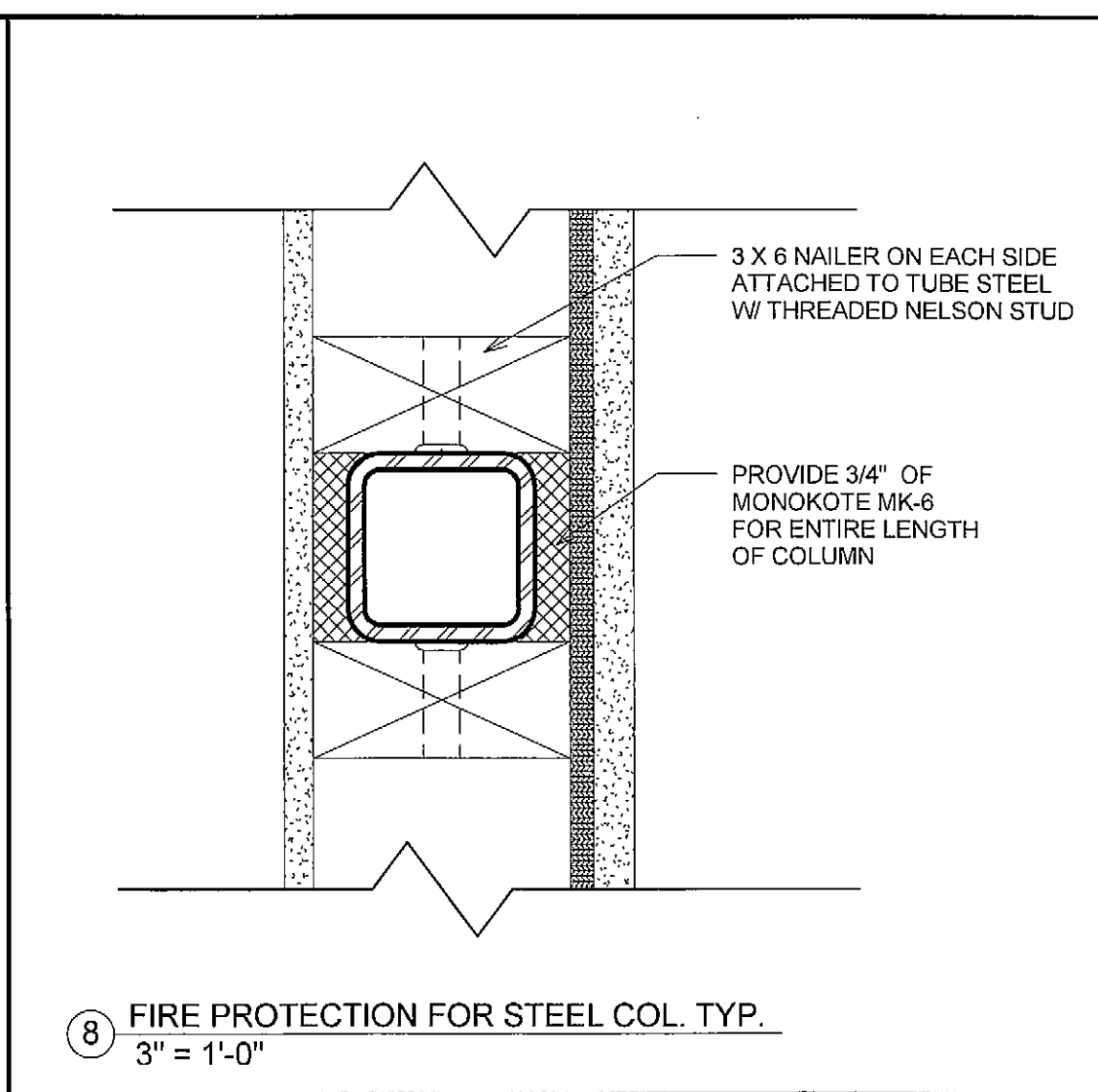
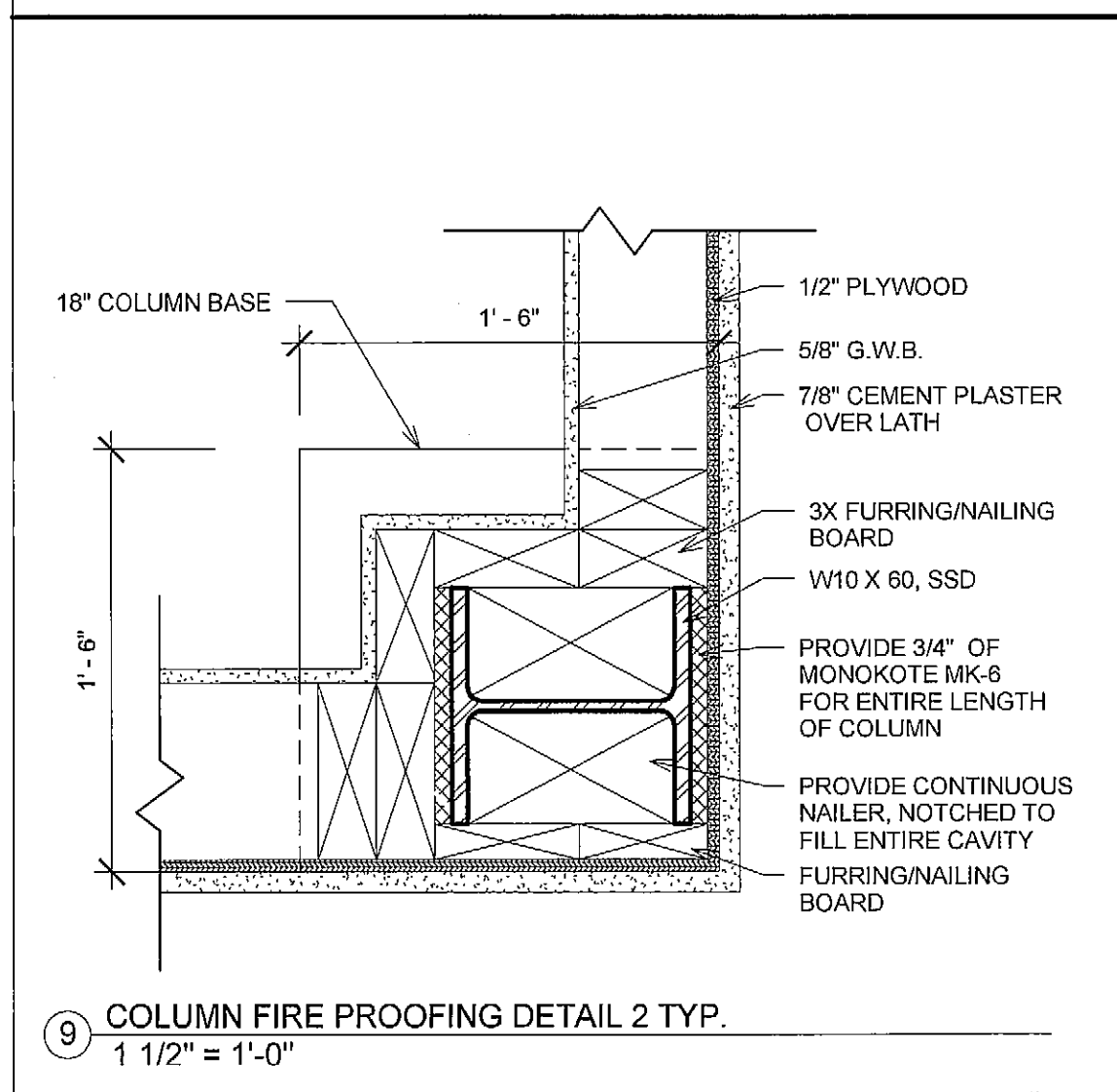
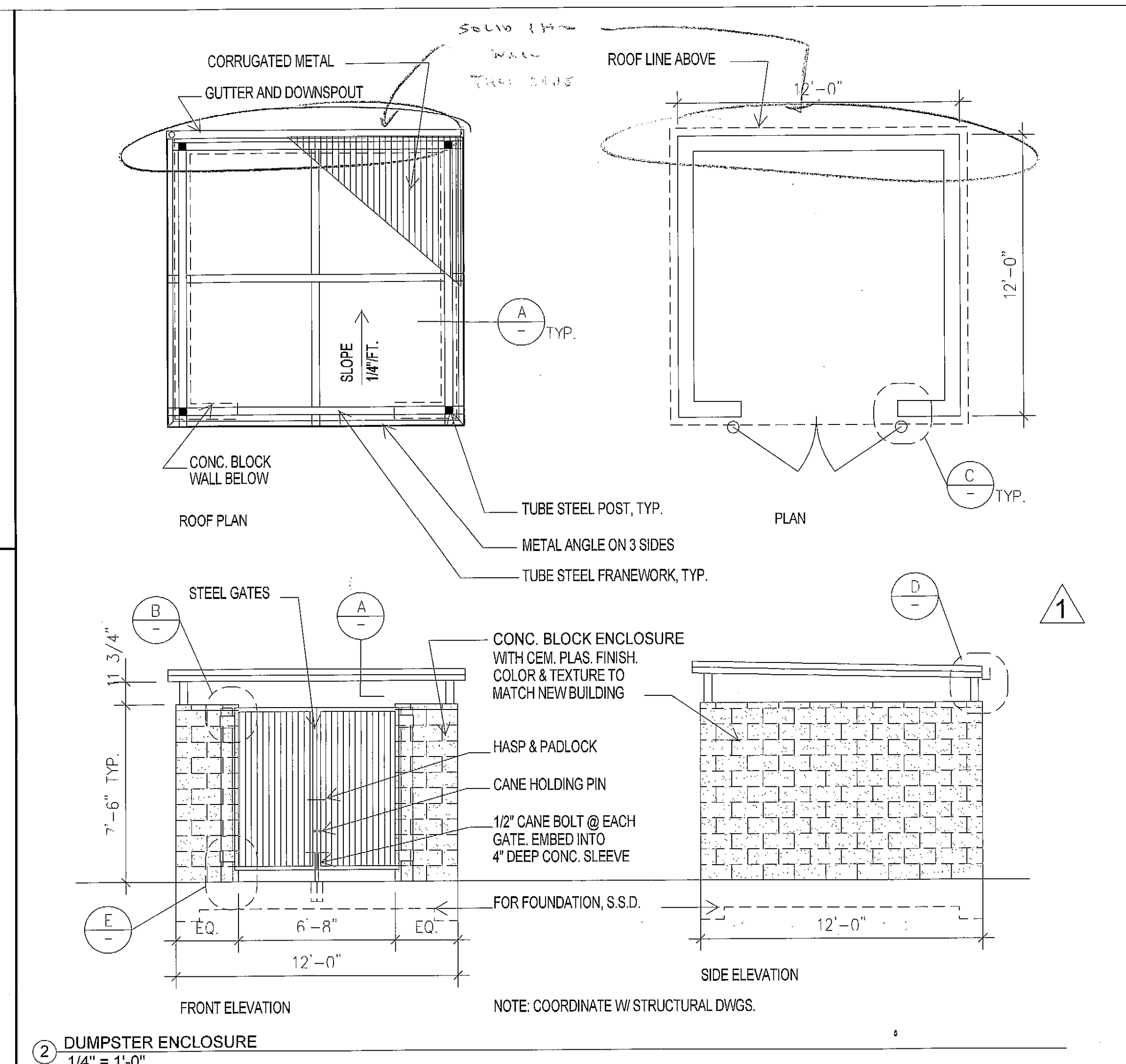
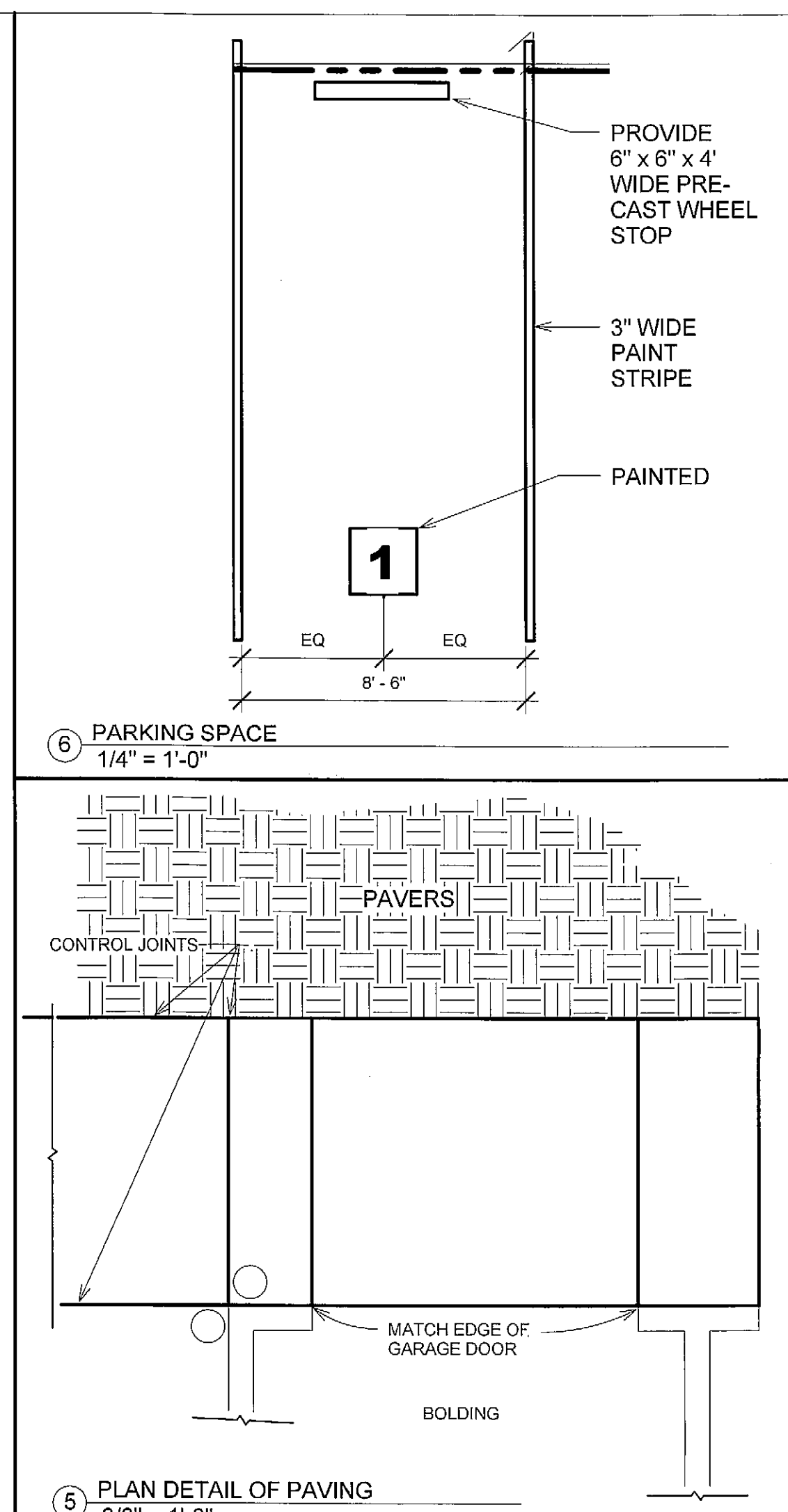
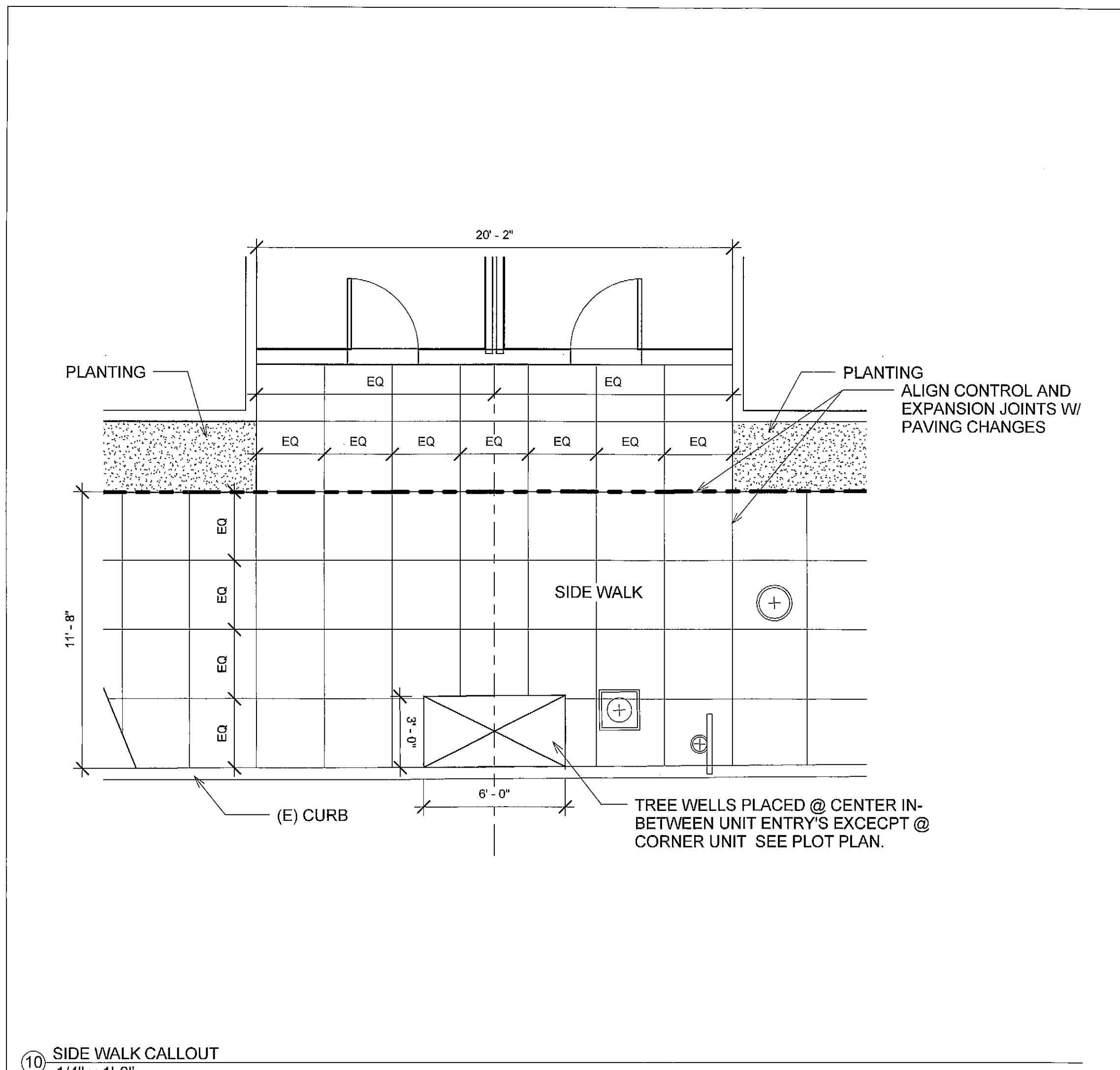
11. ALL GYPSUM BOARD SHALL BE 5/8" THICK TYPE 'X' UNLESS NOTED OTHERWISE. ATTACHMENT SCREWS SHALL BE SPACED 16" ON CENTER AND SCREWED TO THE FRAMING MEMBERS INCLUDING THE TOP AND BOTTOM PLATES AS REQUIRED PER CODE AND APPROVED ASSEMBLY SYSTEM.

12. GYPSUM BOARD ON ACOUSTICALLY RATED WALL ASSEMBLIES SHALL SET IN A CONTINUOUS BEAD OF ACOUSTICAL CAULK. GYPSUM BOARD SHOULD BE HELD BACK TO LEAVE A 1/4" GAP PRIOR TO CAULKING. SEE PLANS AND DETAILS FOR LOCATIONS OF ACOUSTICAL WALLS.

13. PROVIDE A 1/4" GAP AROUND THE FULL PERIMETER OF EACH WALL AT FACE LAYER OF GYPSUM BOARD. SUPPLY AND INSTALL ACOUSTICAL SEALANT IN GAP FOR EACH LAYER OF MATERIAL WHERE RESILIENT CHANNELS ARE USED. ALL GYPSUM BOARD LAYERS SHOULD BE HELD BACK 1/4" INCH FROM INTERSECTION SURFACES AND THE GAP CALKED AIRTIGHT WITH ACOUSTICAL SEALANT. WHERE THE GYPSUM BOARD IS DIRECTLY ATTACHED TO THE FRAMING, ONLY THE FACE LAYER NEEDS TO BE HELD BACK AND CALKED AIRTIGHT.

14. SUPPLY AND INSTALL PLYWOOD SHEAR PANELS PER STRUCTURAL DRAWINGS ON STUDS PRIOR TO INSTALLATION OF GYPSUM BOARD AND FINISHES.

15. ALL FRAMING MEMBERS SHALL BE SO ARRANGED AND SPACED AS TO PERMIT INSTALLATION OF PIPES, CONDUITS, CONTROLS AND DUCTWORK WITH A MINIMUM OF CUTTING. SHAFT WALLS SHALL BE PROVIDED WITH NECESSARY FRAMES, BRACING AND SEALANT AROUND THE OPENING. PROVIDE FIRE RATED ASSEMBLY IN THE FIRE RATED WALLS AND PROVIDE WITH NECESSARY FRAMES, BRACING AND SEALANT TO ALLOW THROUGHOUT AS REQUIRED PER U.B.C. SECTION 708 REFER TO FIRE STOPPING AND DRAFT



**ARCHITECTURE**

**PHILIP BANTA & ASSOCIATES**

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www.philipbanta.com

REVISIONS:  ISSUES:

No.	Description	Date
1	1ST PLAN CHECK REVIEW	01/14/14
2	BUILDING PERMIT	12/12/13

PROJECT: **35th @ School**  
Oakland, CA 94619

APPROVED  
CITY OF OAKLAND  
BUILDINGS SERVICES  
PLANNING SECTION  
FOR SUBMITTAL COMPLIANCE WITH  
CHECKS AND REQUIREMENTS  
REVISIONS USED APPROVAL

CALIFORNIA BUILDING CODE  
SECTION 1905.4.3  
SECTION 1905.4.4 AND SECTION 1905.4.5  
SURVEY (REVIEW ONLY)  
PLOT PLAN REVIEW  
PARKING LAYOUT  
GRADING AND  
EROSION CONTROL  
SOILS REPORT ON FILE  
ELECT. MECH. PLUMB.  
NOT CHECKED

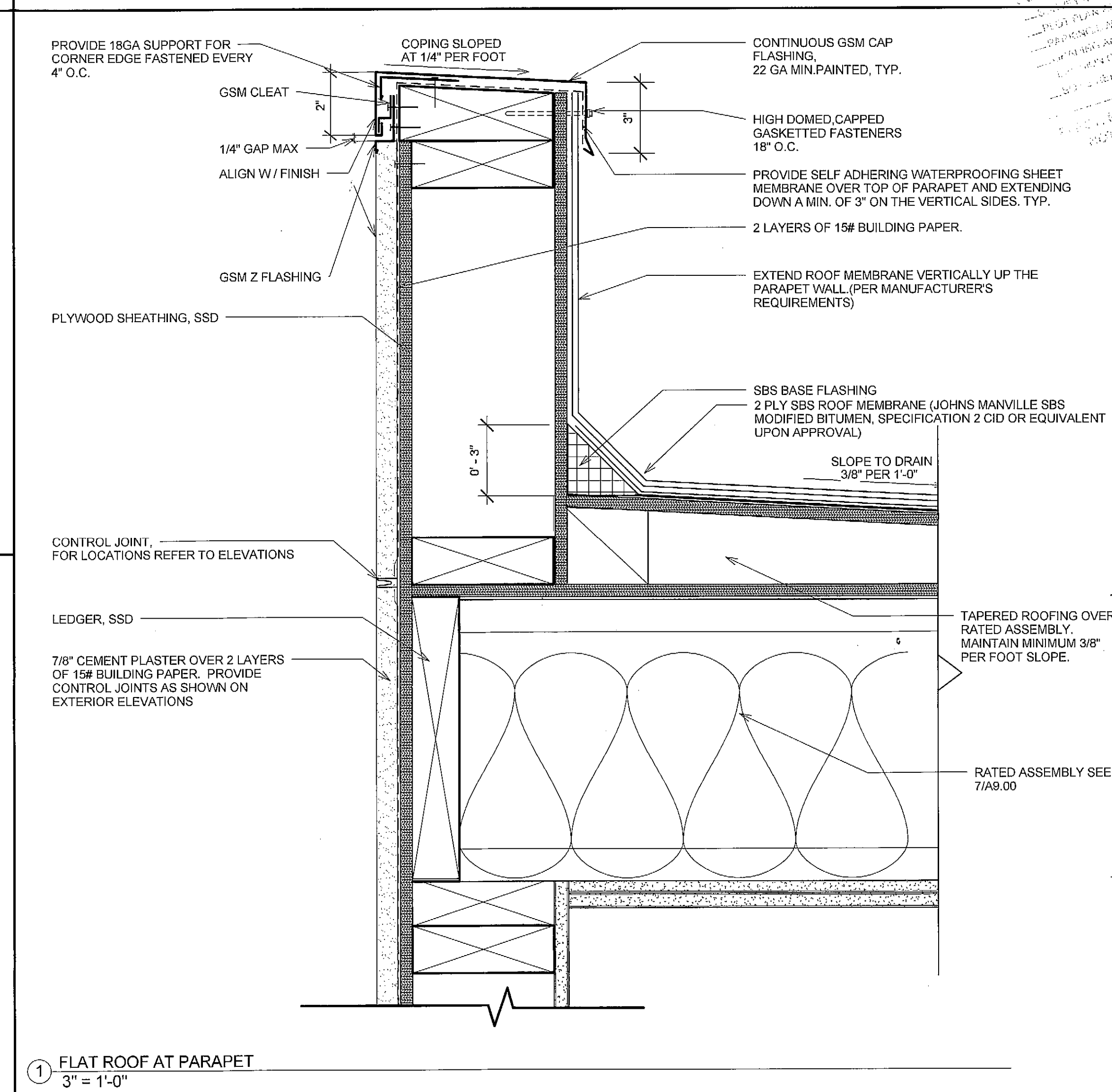
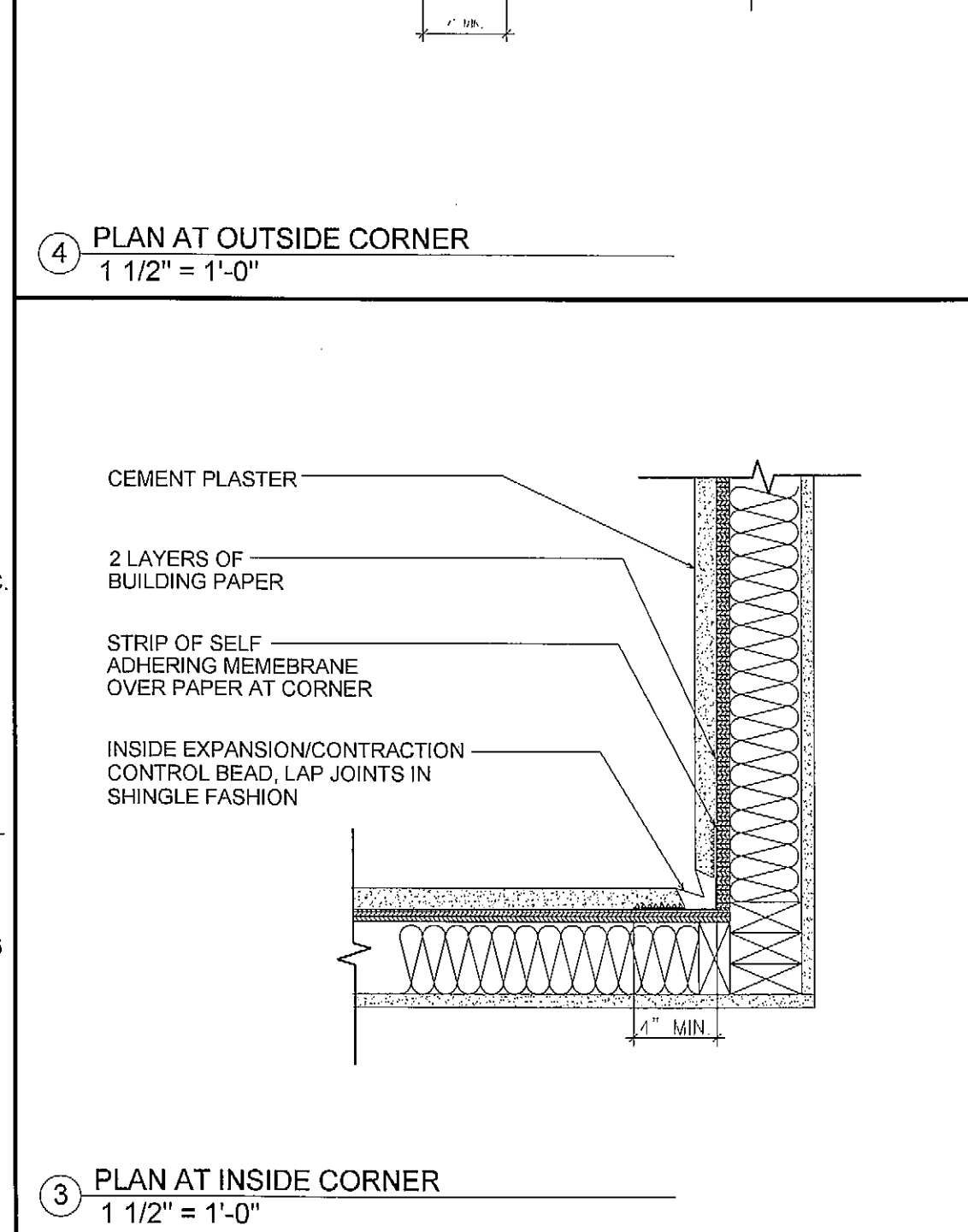
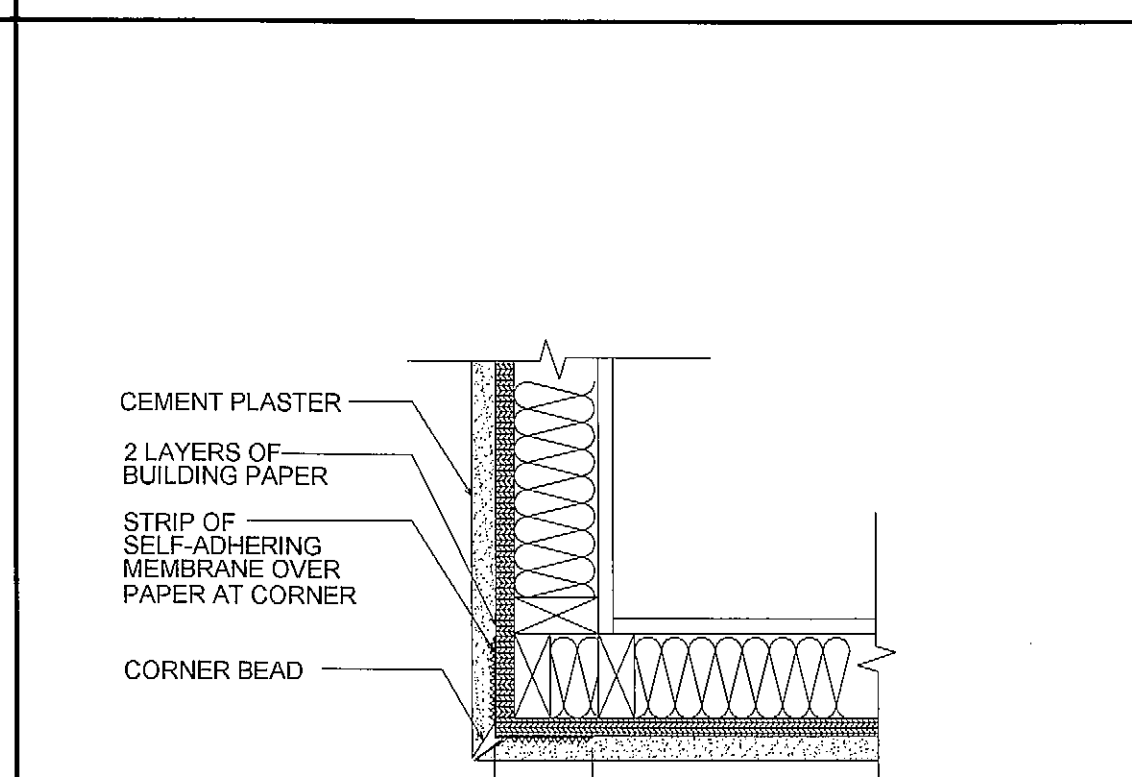
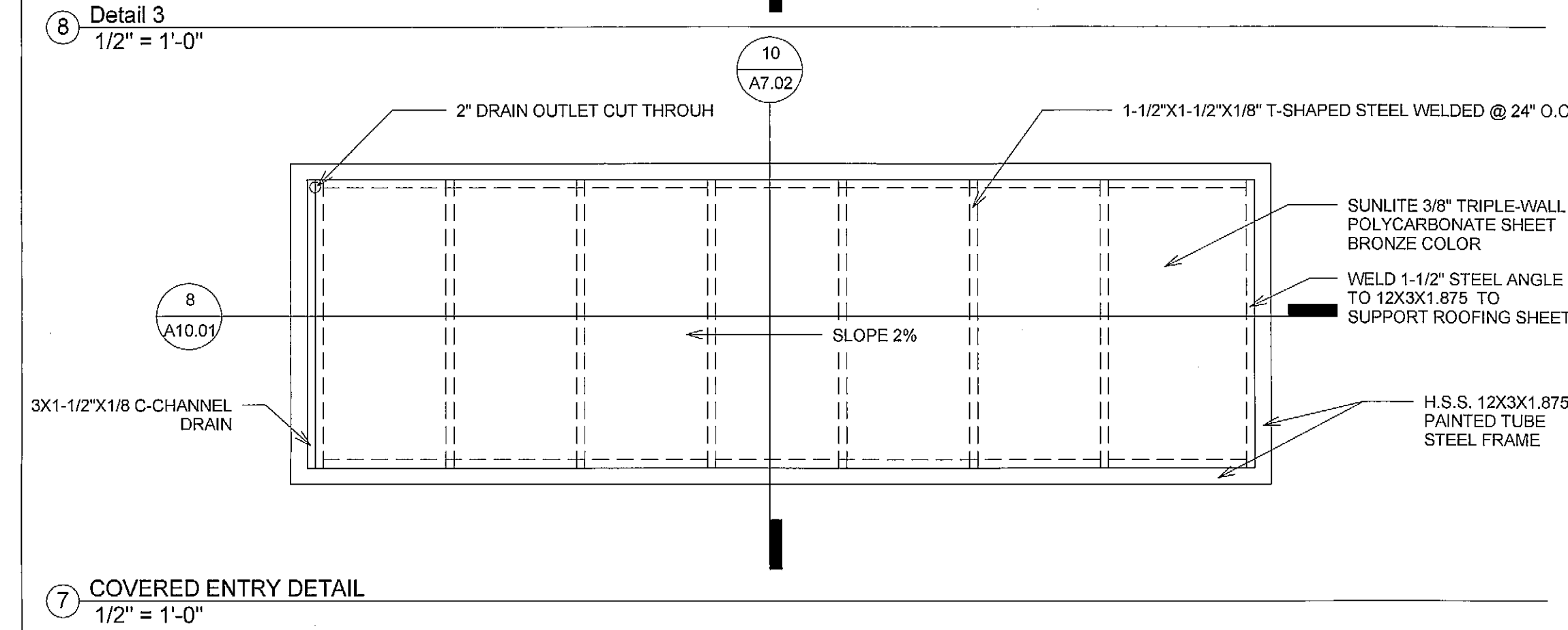
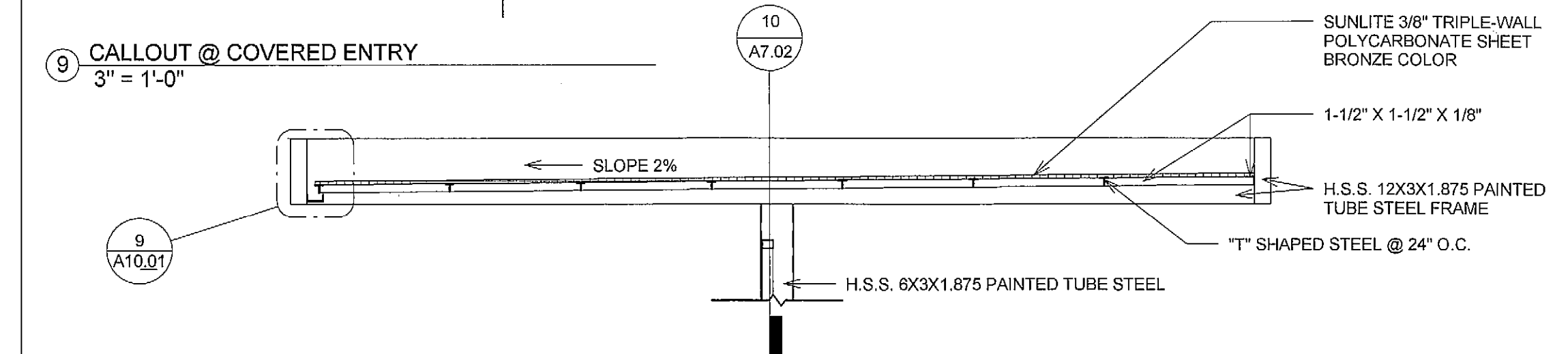
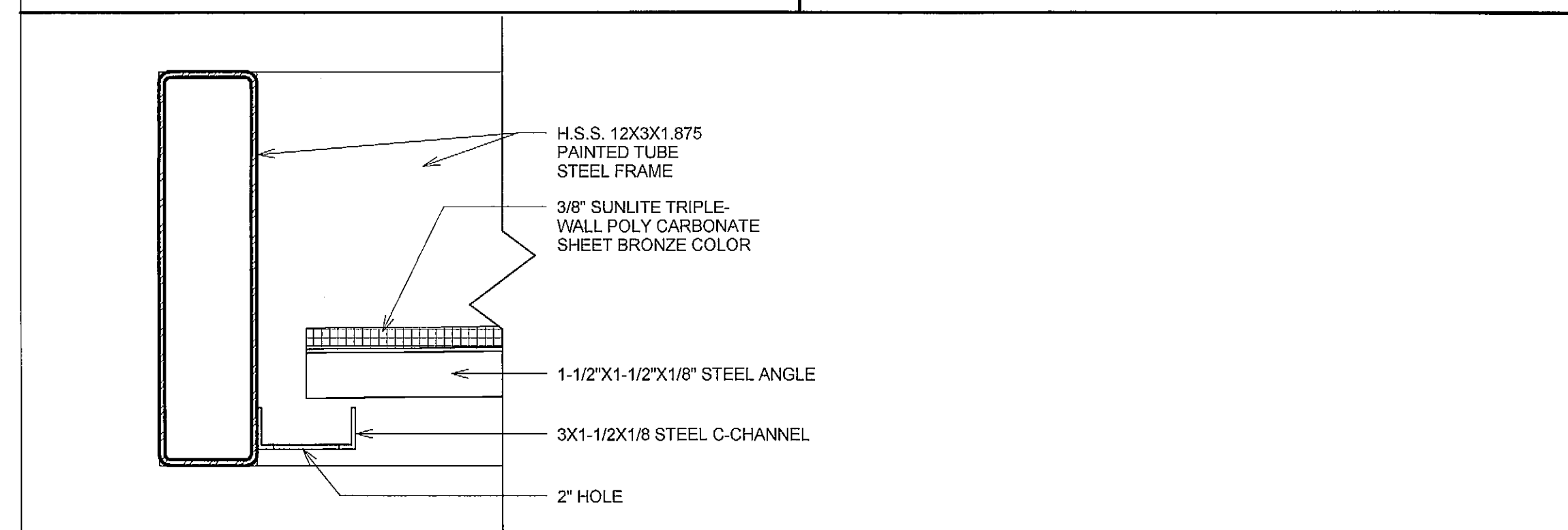
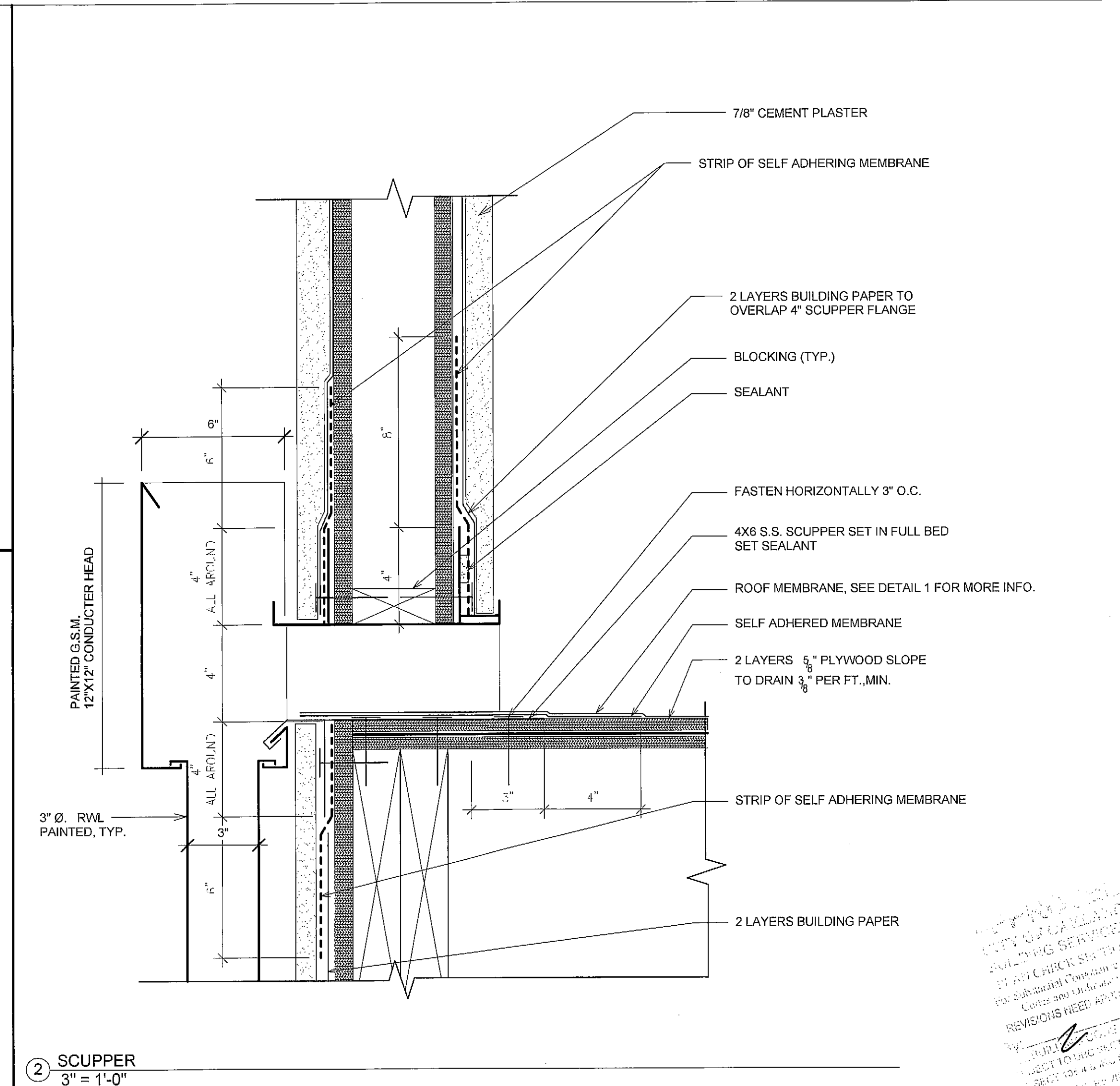
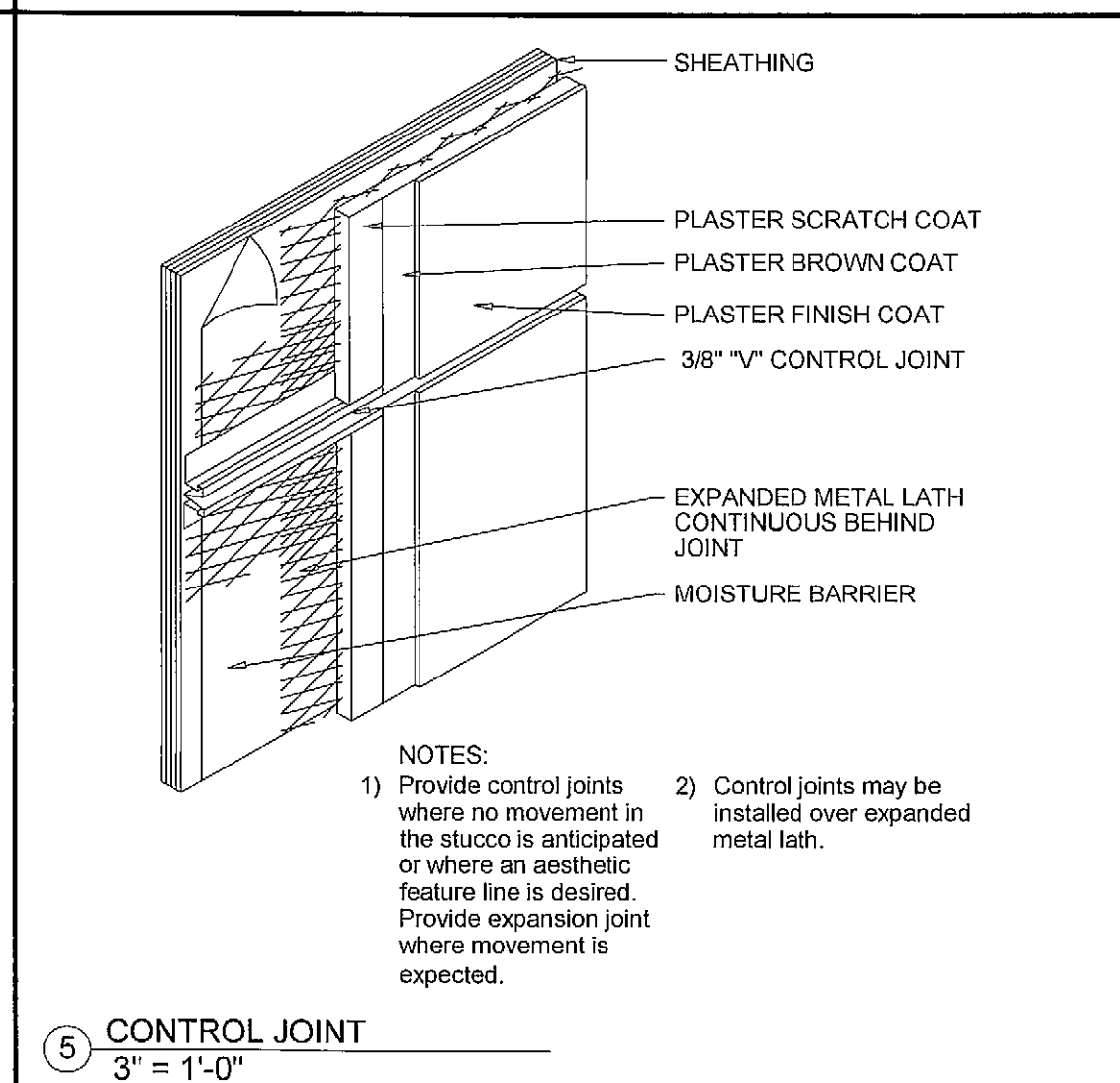
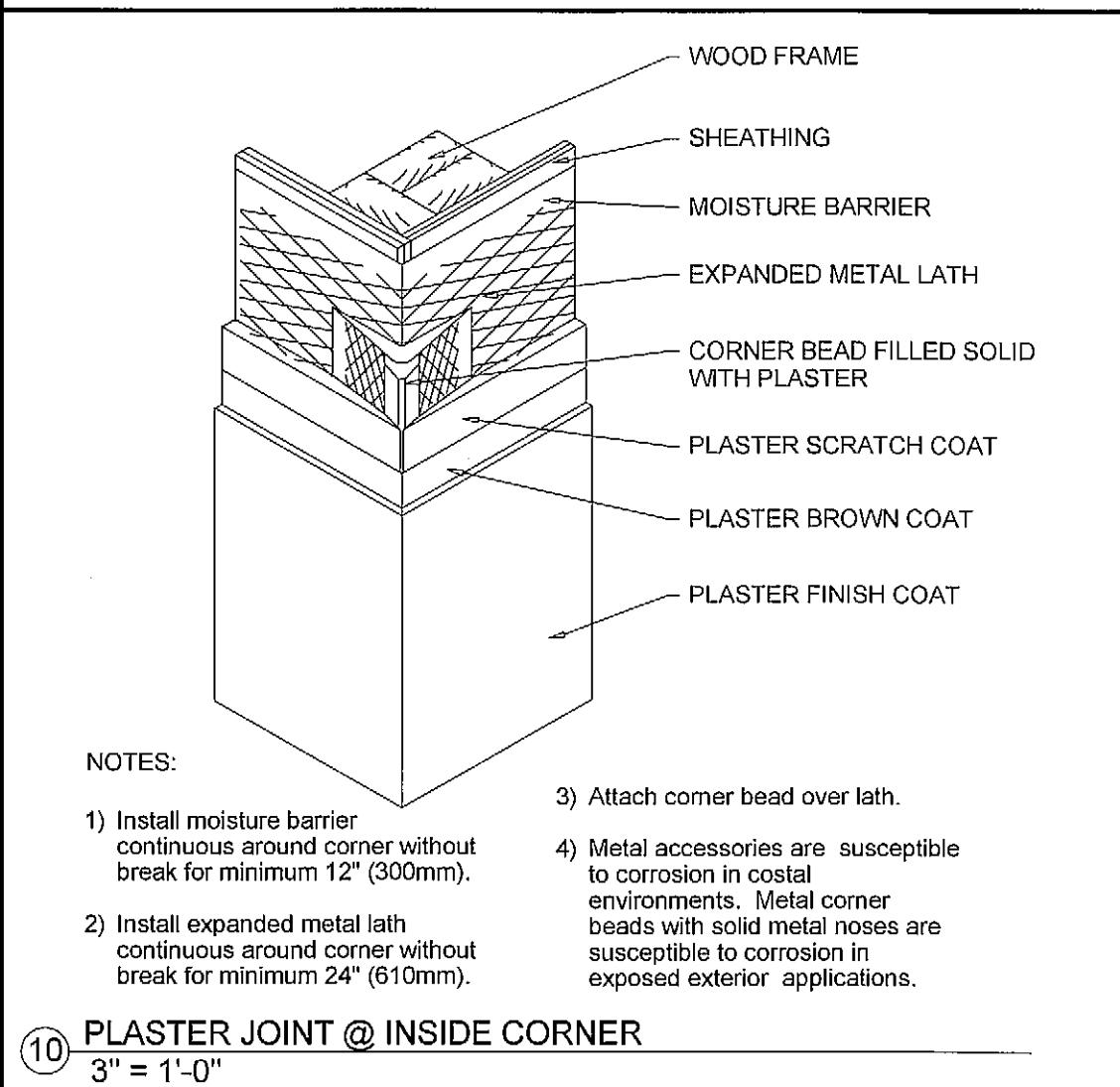
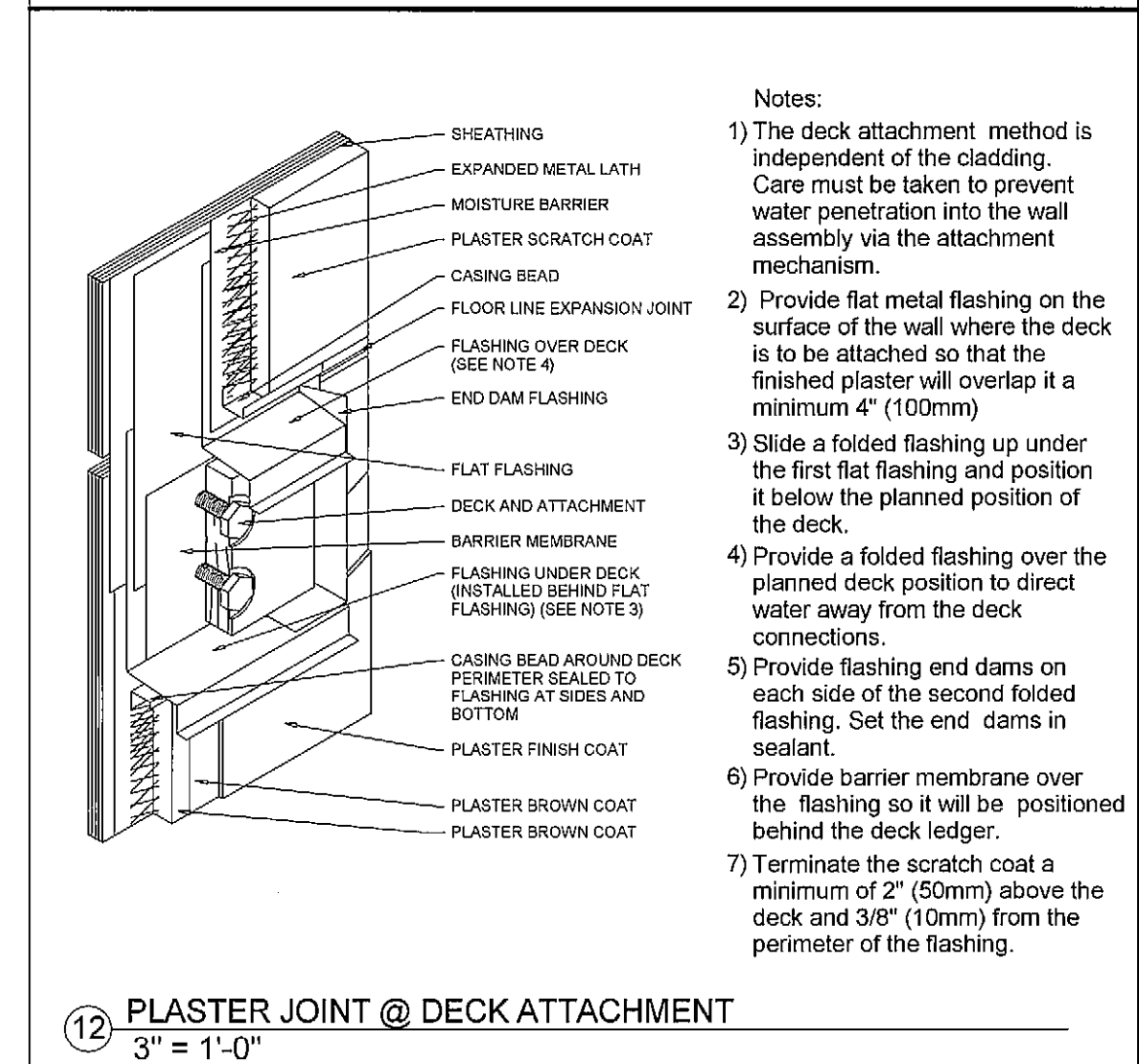
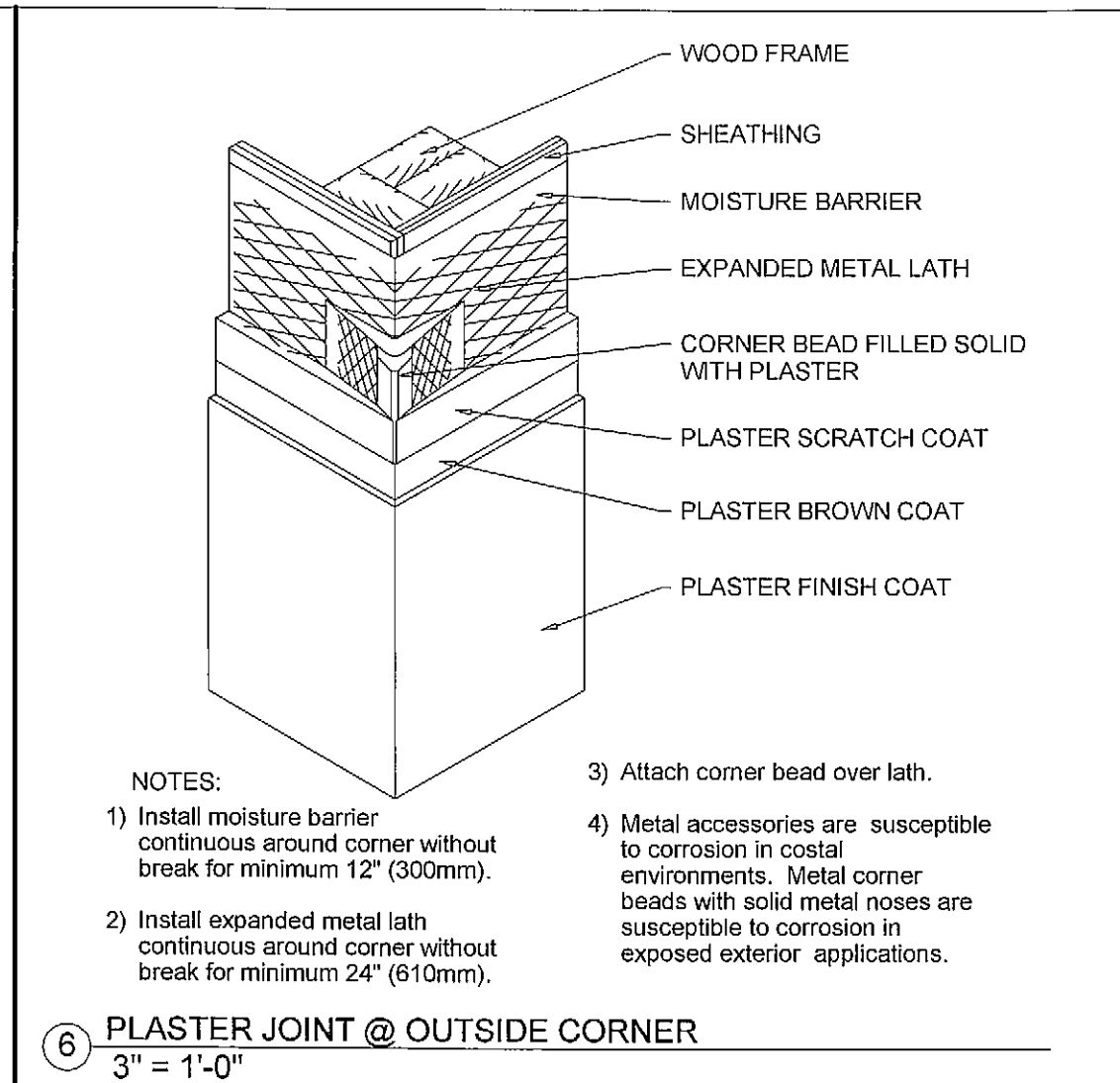
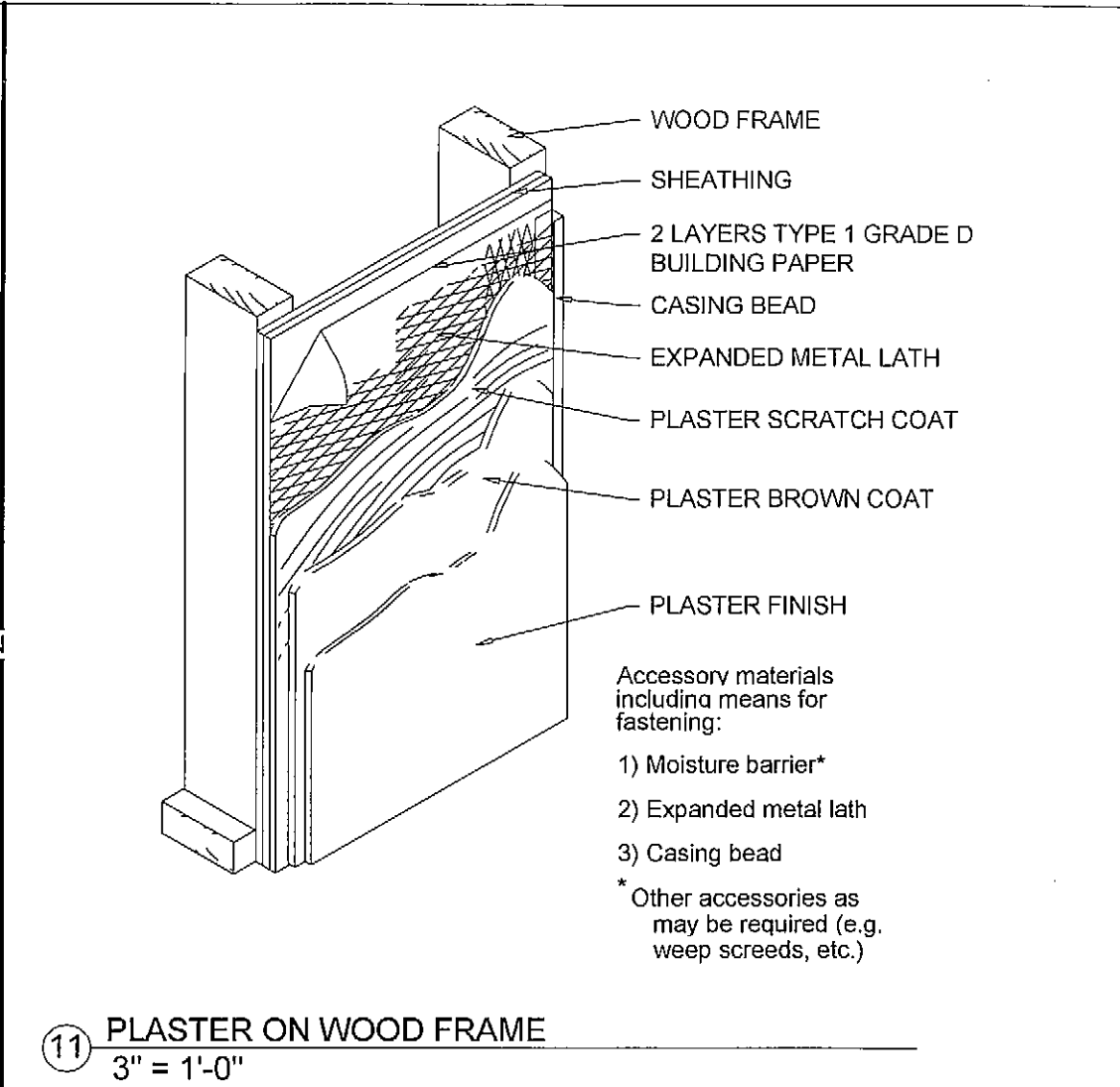
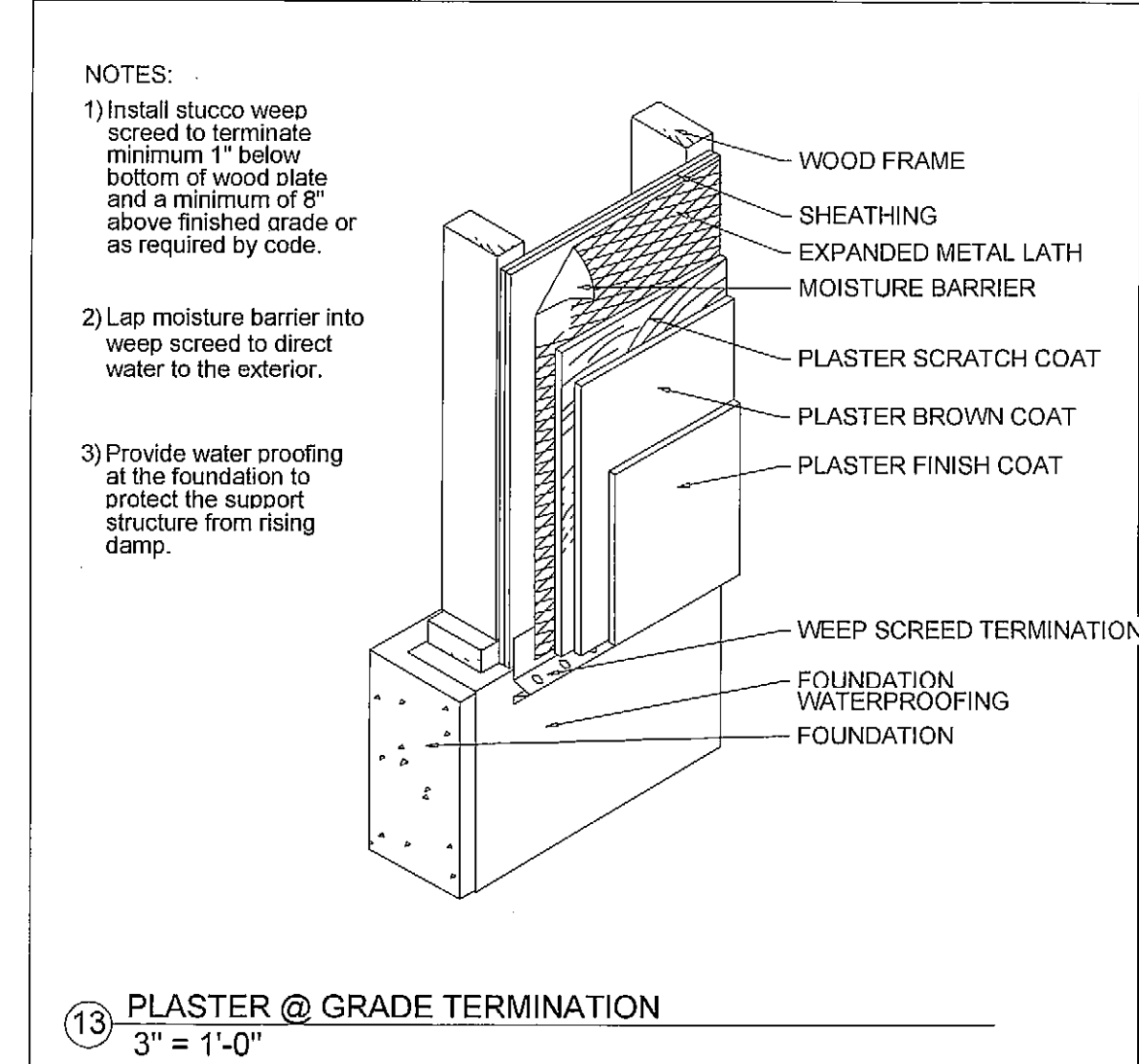
LICENSED ARCHITECT  
PHILIP BANTA  
No. C-14646  
Ren. 4/30/15

SHEET DESCRIPTION:  
**EXTERIOR DETAILS**

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JH/JY  
CHECKED BY: PB  
SCALE: As indicated

**A10.00**

12/29/2013 10:26:26 PM



**ARCHITECTURE**

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REVISIONS:  ISSUES:

No.	Description	Date
1	1ST PLAN CHECK REVIEW	01/14/14
2	BUILDING PERMIT	12/12/13

**PROJECT:**

**35th @ School**  
Oakland, CA 94619

No. C-14646  
Ren. 4/30/15

**SHEET DESCRIPTION:**

**EXTERIOR DETAILS**

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JHJY  
CHECKED BY: PB  
SCALE: As Indicated

**A10.01**

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ARCHITECTURE

**PHILIP BANTA & ASSOCIATES**

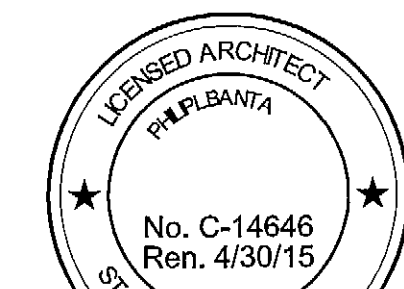
6050 HOLLIS STREET  
EMERYVILLE, CALIFORNIA 94609

TEL: 916.654.3255  
FAX: 916.654.3259  
www.pbantadesign.com

REVISIONS:  $\Delta$  ISSUES:  $\circ$

No.	Description	Date
1	1ST PLAN CHECK REVIEW	01/14/14
1	BUILDING PERMIT	12/12/13

PROJECT: **35th @ School**  
Oakland, CA 94619

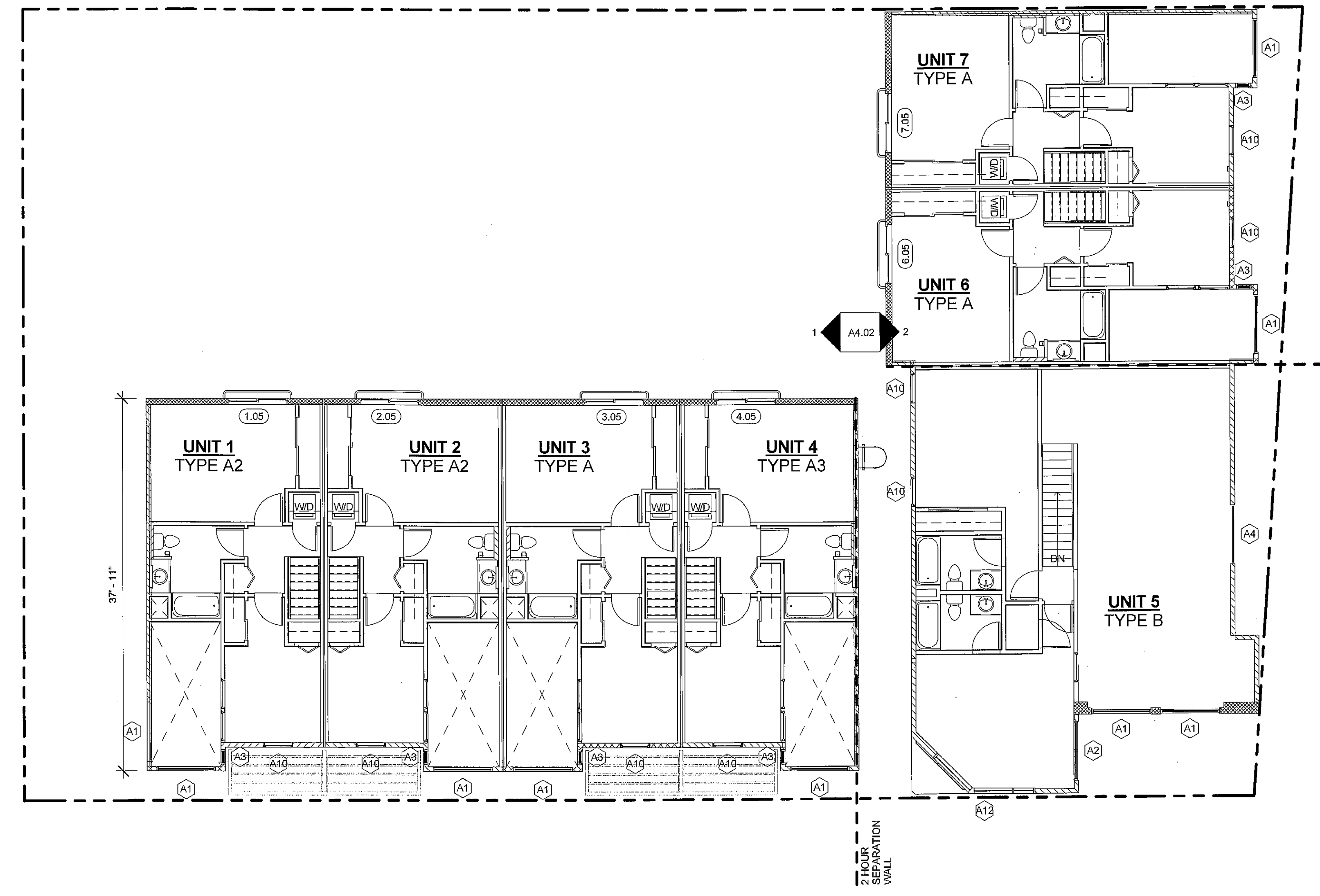


SHEET DESCRIPTION:  
**THIRD FLOOR PLAN**

PROJECT NUMBER:	0714
DATE:	01/14/14
DRAWN BY:	JH/JY
CHECKED BY:	PB
SCALE:	1/8" = 1'-0"

**A1.03**

12/29/2013 6:26:13 PM



**APPROVED**  
CITY OF OAKLAND  
BUILDING SERVICES  
PLAN CHECK SECTION  
Compliance With  
Codes and Ordinances  
REVISIONS NEED APPROVAL

**3**  
A5.00  
BUILDING CODE  
CITY OF OAKLAND SEC 105.4.3  
SECTION 105.4 & IRC SECT R105.6  
- SURVEY REVIEW ONLY  
- PLOT PLAN REVIEW  
- PARKING/DWY LAYOUT  
- GRADING AND  
- EROSION CONTROL  
- TOP'S REPORT ON FILE

MECH. PLUMB.  
CHECKED

① 3RD FLOOR AT UNITS 1-4  
1/8" = 1'-0"

BUILDING PLAN LEGEND	
	PLANTING AREA
	FINISH FLOOR ELEVATION 0'-0" SET AT 160'-0" PER SURVEY
	2x4 STUD WALL - SEE SHEET A9.0
	2x6 STUD WALL - SEE SHEET A9.0
	2x8 STUD WALL - SEE SHEET A9.0
	CONCRETE

BUILDING PLAN NOTES	
1.	REFER TO SHEET A9.00 FOR ASSEMBLY NOTES.
2.	REFER TO SHEETS A7.00 FOR DOOR SCHEDULES AND NOTES
3.	REFER TO SHEETS A7.01 FOR WINDOW SCHEDULE AND NOTES
4.	REFER TO SHEETS OF A10.00 SERIES FOR WATERPROOFING DETAILS
5.	REFER TO SHEET A0.05 FOR ACCESSIBILITY DETAILS AND REQUIREMENTS
6.	REFER TO SHEET A9.00 FOR WALL TYPE ASSEMBLIES.
7.	REFER TO A2 SERIES FOR UNIT DIMENSIONS, DOOR AND WINDOW TAGS AND PARTITION INFORMATION
8.	ALL DIMENSIONS TO FACE OF STUD, U.N.O.

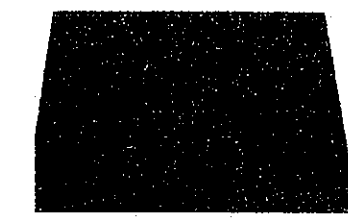








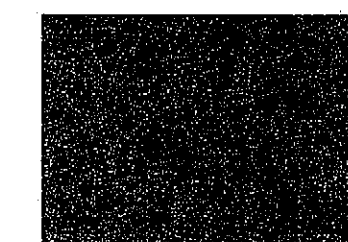
**MATERIALS**



12" X 12" GRANITE TILE - GRANITE  
TILE FLAMED - VERDE UBATUBA

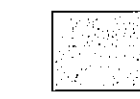


ASPHALT SINGLES



CEMENT PLASTER

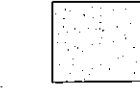
**COLORS**



LIGHT YELLOW T.B.D.



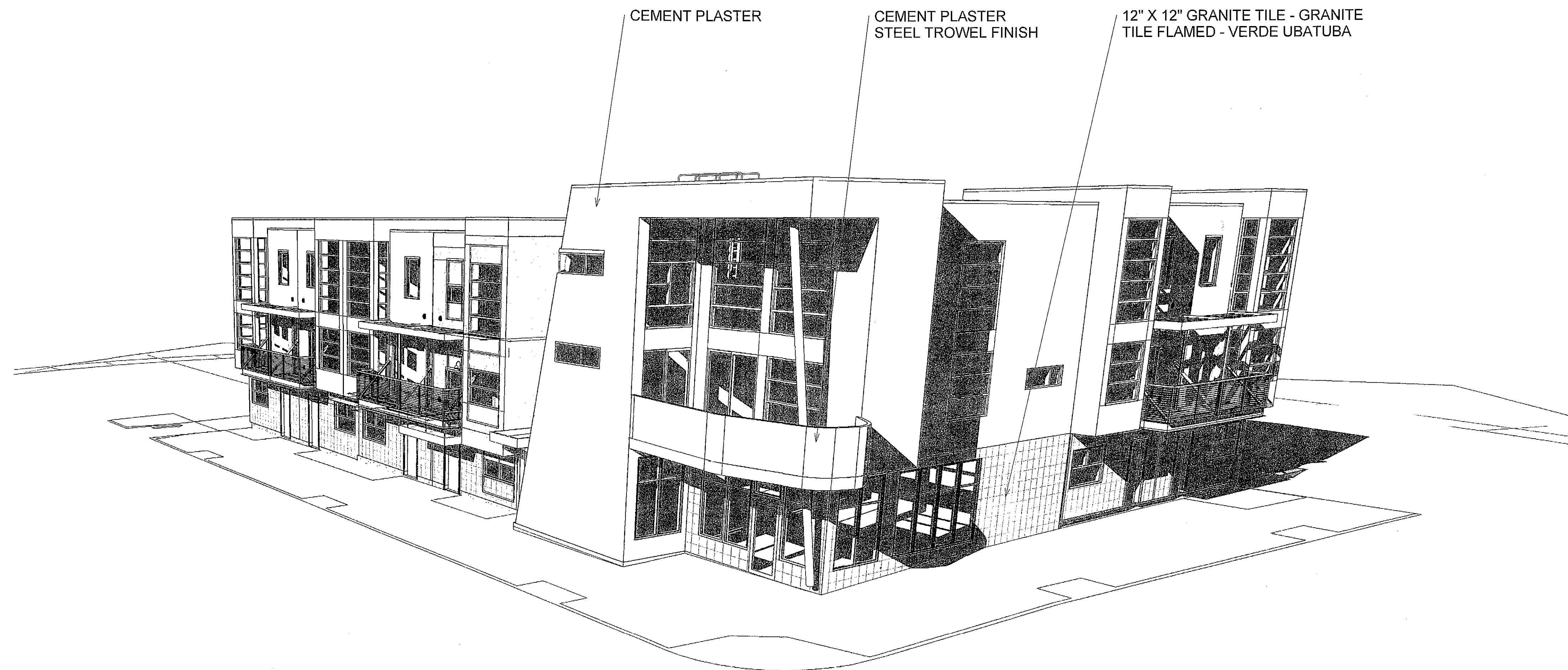
LIGHT BROWN T.B.D.



YELLOW T.B.D.



APPLE GREEN T.B.D.



ARCHITECTURE

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& ASSOCIATES**

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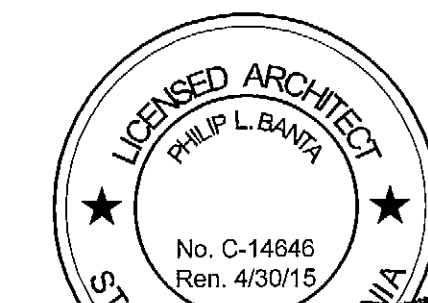
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REVISIONS:  ISSUES:

No.	Description	Date
1/	1ST PLAN CHECK REVIEW	01/14/14
(1)	BUILDING PERMIT	12/12/13

PROJECT:

**35th @ School**  
Oakland, CA 94619



*[Handwritten Signature]*

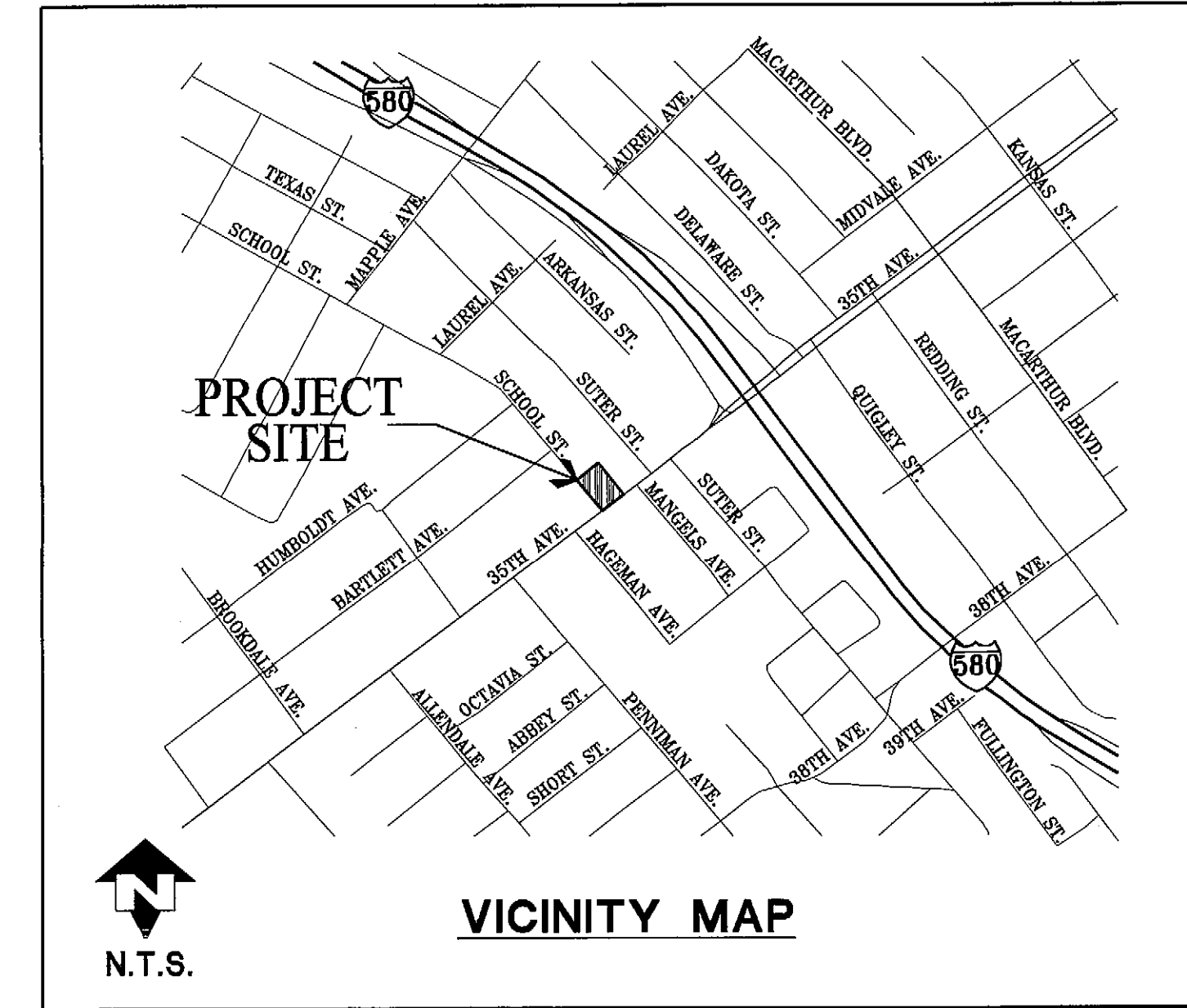
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**COLOR AND  
MATERIAL BOARD**

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JH/JY  
CHECKED BY: PB  
SCALE: 1/8" = 1'-0"

**A11.0**  NEW SHEET

IMPROVEMENT PLANS FOR  
**HSIEH PROPERTY**  
 CITY OF OAKLAND CALIFORNIA  
 NOVEMBER 2007



**STANDARD NOTES:**

1. BASIS OF ELEVATION: THE NORTHWEST CURB RETURN OF THE NORTHERN CORNER AT THE INTERSECTION OF 35TH AVENUE AND SCHOOL STREET. ELEVATION = 162.8' PER CITY OF OAKLAND MONUMENT MAP #171.
2. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT WILL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CONSULTING ENGINEER, OWNER AND THE CITY OF OAKLAND HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF OWNER OR WOOD RODGERS, INC.
3. ALL MATERIALS, METHODS, AND WORKMANSHIP SHALL CONFORM TO THE CITY OF OAKLAND PUBLIC WORKS CONSTRUCTION STANDARDS AND SPECIFICATIONS. ALL WORK IS SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. CERTIFICATION FOR CONFORMANCE WITH CITY SPECIFICATIONS WILL BE REQUIRED FOR ALL MATERIALS USED ON THE PROJECT UNLESS SPECIFICALLY WAIVED BY THE PROJECT ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND NOTIFYING THE OWNER AND PROJECT ENGINEER FOR A PRE-CONSTRUCTION CONFERENCE 72-HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES. NO CONSTRUCTION WORK SHALL COMMENCE UNTIL AFTER THE PRE-CONSTRUCTION CONFERENCE IS HELD AND THE OWNER AND PROJECT ENGINEER APPROVE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF EXISTING PUBLIC AND PRIVATE IMPROVEMENTS WITHIN THE WORK AREA AND SHALL ADEQUATELY BARRICADE PROJECT TO KEEP THE GENERAL PUBLIC FROM THE SITE. ANY DAMAGE TO CITY, OWNER OR PRIVATE IMPROVEMENTS SHALL BE REPLACED BY THE CONTRACTOR AT ITS EXPENSE.
6. THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS FOR PRIVATE PROPERTY ADJACENT TO WORK THROUGHOUT THE PERIOD OF CONSTRUCTION.
7. THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATING WILL REVEAL THE TYPES, SIZE, LOCATION, AND DEPTH OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE ALL UNDERGROUND WORKS. HOWEVER, WOOD RODGERS, INC. CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND WORKS NOR THE EXISTENCE OF OTHER BURIED OBJECTS WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. IF NO ELEVATION IS SHOWN IN THE PLANS THE CONTRACTOR SHALL ASSUME THE ELEVATION TO BE UNKNOWN AND POTHOLE WHEREVER NEEDED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ALL CONFLICTS, ERRORS, OMISSIONS, ETC. TO WOOD RODGERS INC. IMMEDIATELY UPON DISCOVERY. IF SO DIRECTED BY THE PROJECT ENGINEER, THE CONTRACTOR SHALL STOP WORK UNTIL MITIGATION CAN BE MADE. ANY COSTS INCURRED RESULTING FROM THE CONTRACTOR'S FAILURE TO STOP WORK AS DIRECTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING OR SHEETING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL AFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH AND STRUCTURE IS FIVE FEET OR MORE IN DEPTH THE CONTRACTOR SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS.
10. CONSTRUCTION OPERATIONS SHALL CEASE IN THE VICINITY OF ANY SUSPECTED ARCHAEOLOGICAL RESOURCE UNTIL AN ARCHAEOLOGIST IS CONSULTED AND HIS OR HER RECOMMENDATION FOLLOWED SUBJECT TO APPROVAL BY THE PLANNING DIRECTOR. IF EVIDENCE OF HUMAN REMAINS IS DISCOVERED ON THE SITE, THE CITY/COUNTY CORONER SHALL BE NOTIFIED IMMEDIATELY.
11. WHEN WIDENING THE PAVEMENT ON AN EXISTING ROAD, THE EXISTING PAVEMENT SHALL BE CUT TO A NEAT LINE AND REMOVED TO AN EXISTING ADEQUATE STRUCTURAL SECTION, OR TO THE ORIGINAL ROAD SECTION. AN EXPLORATORY TRENCH, OR POTHOLING, MAY BE REQUIRED TO DETERMINE THE LIMITS OF PAVEMENT REMOVAL.
12. NO TREES SHALL BE REMOVED UNLESS THEY ARE SHOWN AND NOTED TO BE REMOVED ON THE IMPROVEMENT PLANS. IF ANY TREES ARE TO BE REMOVED, THE IMPROVEMENT PLANS MUST BE REVIEWED AND ACKNOWLEDGED BY THE PLANNING DEPARTMENT. ALL TREES CONFLICTING WITH GRADING, UTILITIES, OR OTHER IMPROVEMENTS, OR OVERHANGING THE SIDEWALK OR PAVEMENT SO AS TO FORM A NUISANCE OR HAZARD, SHALL BE TRIMMED, PROPERLY TREATED AND SEALED.
13. WATER TESTING IS REQUIRED FOR ALL CURB GRADES LESS THAN ONE PERCENT.
14. EXISTING CURB AND SIDEWALK WITHIN THE PROJECT LIMITS DAMAGED OR DISPLACED, EVEN THOUGH NOT PROPOSED TO BE REMOVED, SHALL BE REPAIRED OR REPLACED EVEN IF DAMAGE OR DISPLACEMENT OCCURRED PRIOR TO ANY WORK PERFORMED BY THE CONTRACTOR.
15. IT IS THE RESPONSIBILITY OF CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN IN THESE PLANS FROM THE APPROPRIATE AGENCIES.
16. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR SAFETY.
17. THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE.
18. ANY EXTRA CONSTRUCTION STAKING NECESSITATED SOLELY BY THE CONTRACTOR'S NEGLIGENCE WILL BE CHARGED TO THE CONTRACTOR ON A TIME AND MATERIAL BASIS AND PAID FOR BY THE CONTRACTOR.
19. ALL RETURN RADII AND CURB DATA ARE TO FACE OF CURB.

**STANDARD NOTES: (CONTINUED)**

20. EARTHWORK:
  - A. ALL UNSUITABLE AND SURPLUS MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UNLESS SPECIFIED OTHERWISE BY THE OWNER.
  - B. SUFFICIENT EQUIPMENT SHALL BE AVAILABLE TO PROVIDE MUD AND DUST CONTROL AT ALL TIMES DURING CONSTRUCTION, DURING NON-WORKING HOURS A WATER TRUCK SHALL BE USED. WHEN REQUIRED, TO MAINTAIN ADEQUATE DUST CONTROL AREAS SURROUNDING WORK SHALL BE KEPT CLEAN AND RETURNED TO ORIGINAL CONDITION UPON COMPLETION OF CONTRACT.
21. UTILITIES:
  - A. ALL UTILITIES ARE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ONE-CALL PROGRAM. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS PROJECT WILL BE REQUIRED TO NOTIFY (U.S.A.) 48-HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800) 227-2600.
  - B. FOR ALL TRENCH EXCAVATIONS 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DIVISION OF SAFETY PRIOR TO BEGINNING OF CONSTRUCTION SITE AT ALL TIMES.
22. STORM DRAINS:
  - A. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE WORKS WITHIN THE CONSTRUCTION AREA UNTIL NEW DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
  - B. THE CONTRACTOR SHALL NOT ALLOW ANY SEDIMENT TO BE WASHED INTO OR ENTER STORM DRAINAGE WORKS. SHOULD EXCESSIVE SEDIMENTATION OCCUR, THE CONTRACTOR SHALL BE REQUIRED TO FLUSH OUT AND CLEAN THE WORKS SUBJECT TO APPROVAL BY THE PROJECT ENGINEER PRIOR TO THE FINAL ACCEPTANCE.
  - C. ALL STORM DRAIN CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS, BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS, AND BE IN ACCORDANCE WITH THE CITY OF OAKLAND PUBLIC WORKS CONSTRUCTION STANDARDS.
23. EROSION CONTROL AND WINTERIZATION:
  - A. IF PAVING AND SITE IMPROVEMENTS ARE NOT COMPLETED BY OCTOBER 15, TEMPORARY SILT AND DRAINAGE CONTROL FACILITIES SHALL BE INSTALLED TO CONTROL AND CONTAIN EROSION-CAUSED SILT DEPOSITS AND TO PROVIDE FOR THE SAFE DISCHARGE OF STORM WATERS INTO EXISTING STORM WATER FACILITIES. DESIGN OF THESE FACILITIES MUST BE APPROVED BY THE BUILDING INSPECTION DEPARTMENT.
  - B. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PREVENT DISCHARGE OF SEDIMENT FROM THE SITE TO ANY WATERCOURSE, DRAINAGE SYSTEM, OR ONTO ADJACENT PROPERTIES AND TO PREVENT DAMAGE BY EROSION OR DEPOSITION OF SEDIMENT WHICH MAY RESULT FROM THE WORK.
  - C. THE CONTRACTOR MUST COMPLY WITH ALL FEDERAL, STATE AND LOCAL GOVERNMENT LAWS AND REGULATIONS RELATING TO THE DISCHARGE OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITIES WHETHER OR NOT THE REQUIRED WORKS OR METHODS ARE STATED ON THESE PLANS.
24. GENERAL NOTES:
  - A. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING, INSTALLING AND MAINTAINING ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK AND PROVIDE FOR THE PROPER AND SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK.
  - B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING RECORD DRAWINGS FOR ALL WORK THROUGHOUT THE COURSE OF CONSTRUCTION. SUCH DRAWINGS SHALL RECORD THE LOCATION, GRADE AND INVERT ELEVATION OF ALL IMPROVEMENTS THAT ARE CONSTRUCTED AND COPIES SHALL BE DELIVERED TO THE PROJECT ENGINEER AND OWNER PRIOR TO THE ACCEPTANCE OF THE WORK.
  - C. PRIOR TO COMMENCING CONSTRUCTION WORK THE CONTRACTOR SHALL HAVE APPROVED PLANS IN HIS POSSESSION AT THE JOB SITE AND SHALL GIVE PROJECT ENGINEER 72 HOURS NOTICE. THE CONTRACTOR SHALL DESIGNATE A FOREMAN, WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR, ON THE JOB SITE DURING ALL WORKING HOURS.
  - D. NOISE GENERATING CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE HOURS OF 7:30 A.M. TO 6:00 P.M., MONDAY THROUGH FRIDAY, AND SHALL BE PROHIBITED ON STATE AND FEDERAL HOLIDAYS.
  - E. CONTRACTOR SHALL FIT ALL INTERNAL COMBUSTION ENGINES WITH MUFFLERS WHICH ARE IN GOOD CONDITION, AND TO LOCATE STATIONARY NOISE-GENERATING EQUIPMENT SUCH AS AIR COMPRESSORS AND CONCRETE PUMPERS AS FAR AWAY FROM EXISTING RESIDENCES AS POSSIBLE.
  - F. WOOD RODGERS, INC. HAS EXERCISED A REASONABLE AND ACCEPTABLE STANDARD OF CARE IN THE PREPARATION OF THESE PLANS. HOWEVER, THE DESIGN PROCESS INCLUDES ACTIVITIES OCCURRING AFTER PLAN SIGNATURE. THESE ACTIVITIES INCLUDE CALCULATION, PLAN CHECK AND VERIFICATIONS DURING CONSTRUCTION. SHOULD PERSONS OTHER THAN WOOD-RODGERS, INC. PERFORM THE CONSTRUCTION STAKING OPERATIONS, THEY SHALL INDEMNIFY WOOD RODGERS, INC. FROM ANY DAMAGES RESULTING FROM FAILURE TO PERFORM THESE TASKS OR ANY EXPENSE OR DAMAGE RESULTING FROM OMISSION OR ERROR CONTAINED IN THE PLANS WHICH WOULD REASONABLY HAVE BEEN DISCOVERED AND CORRECTED BY WOOD RODGERS, INC.
25. BAAQMD - FUGITIVE DUST CONTROL MITIGATION MEASURES:
  - A. CONSTRUCTION SITES SHALL BE WATERED AS DIRECTED BY THE PROJECT ENGINEER, DEPARTMENT OF PUBLIC WORKS OR AIR QUALITY MANAGEMENT DISTRICT AND AS NECESSARY TO PREVENT FUGITIVE DUST VIOLATIONS.
  - B. ONSITE DIRT PILES OR OTHER STOCKPILED PARTICULATE MATTER SHOULD BE COVERED, WIND BREAKS INSTALLED, AND WATER AND/OR SOIL STABILIZERS EMPLOYED TO REDUCE WIND BLOWN DUST EMISSIONS. INCORPORATE THE USE OF APPROVED NON-TOXIC SOIL STABILIZERS ACCORDING TO MANUFACTURER'S SPECIFICATIONS TO ALL INACTIVE CONSTRUCTION AREAS.
  - C. PAVED STREETS SHALL BE SWEEPED FREQUENTLY (WATER SWEEPER WITH RECLAIMED WATER RECOMMENDED; WET BROOM) IF SOIL MATERIAL HAS BEEN CARRIED ONTO ADJACENT PAVED, PUBLIC THOROUGHFARES FROM THE PROJECT SITE.

SHEET INDEX		
SHT No.	DWG No.	DRAWING DESCRIPTION
1	C1.0	COVER SHEET & NOTES
2	C2.0	BOUNDARY AND TOPOGRAPHIC SURVEY
3	C3.0	DEMOLITION PLAN
4	C4.0	SITE PLAN
5	C5.0	GRADING & PAVING PLAN
6	C6.0	UTILITY PLAN
7	C7.0	SECTIONS & DETAILS

ABBREVIATIONS	
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
BLDG	BUILDING
B/W	BACK OF WALK
BOW	BOTTOM OF WALKWAY
CB	CATCH BASIN
C&G	CURB AND GUTTER
CLF	CHAIN LINK FENCE
CONC	CONCRETE
COTG	CLEANOUT TO GRADE
DI	DROP INLET
D	DIAMETER
DWY	DRIVEWAY
E	EAST
EL	ELEVATION
ELECT	ELECTRIC
EP	EDGE OF PAVEMENT
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FIRE HYDRANT
FL	FLOW LINE
FOC F/C	FACE OF CURB
GB	GRADE BREAK
GR	GRATE ELEVATION
GS	GALVANIZE STEEL
HCR	HANDICAP RAMP
HP	HIGH POINT
INV	INVERT
L=	LENGTH
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MTR	METER
N	NORTH
NTS	NOT TO SCALE
OC	ON CENTER
PAVE	PAVEMENT
R=	RADIUS
RIM	RIM ELEVATION
S	SOUTH
STD	STANDARD
SW/SWK	SIDEWALK
TC	TOP OF CURB
TE	TRASH ENCLOSURE
TOW	TOP OF WALKWAY
TSB	TRAFFIC SIGNAL BOX
TYP	TYPICAL
UB	UTILITY BOX
VL	VAULT
W	WEST
WM	WATER METER

LEGEND		
EXISTING	PROPOSED	DESCRIPTION
⊙	⊙	FOUND WELL MONUMENT
▭	▭	BUILDING FOOTPRINT
— — —	— — —	CHAIN LINK FENCE
⊕	⊕	FIRE HYDRANT
		SIGN POLE
⊕	⊕	JOINT POLE
○	○	SANITARY SEWER MANHOLE
—	—	WATER PIPE
—	—	SANITARY SEWER PIPE
⊕	⊕	WATER METER
— 8' S	— 6' S	SEWER PIPE SIZE AND DIRECTION

No.	Description	Date

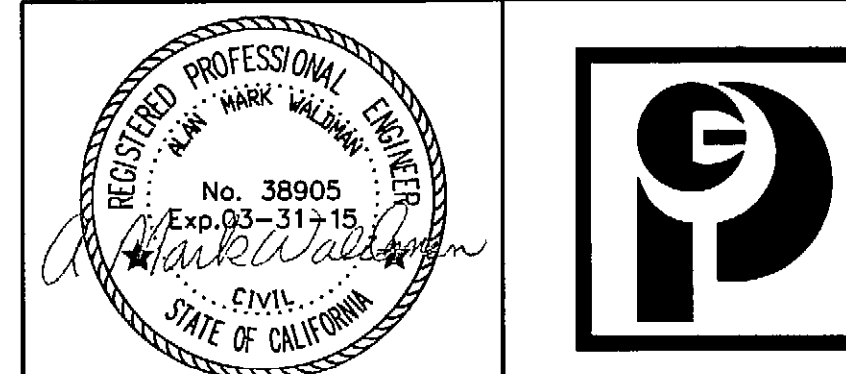
**35th @ School**  
Oakland, CA 94619

APN 028-0951-012-01

**COVER SHEET & NOTES**

	0714
	11/14/07
	PVT
	AMW
	AS SHOWN

**C1.0**



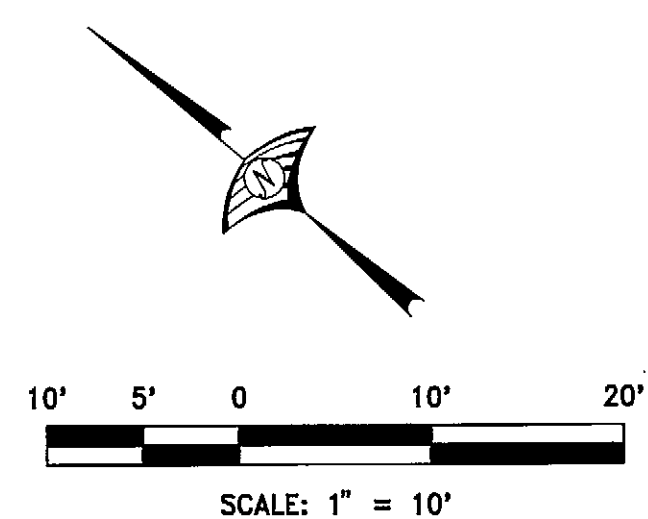
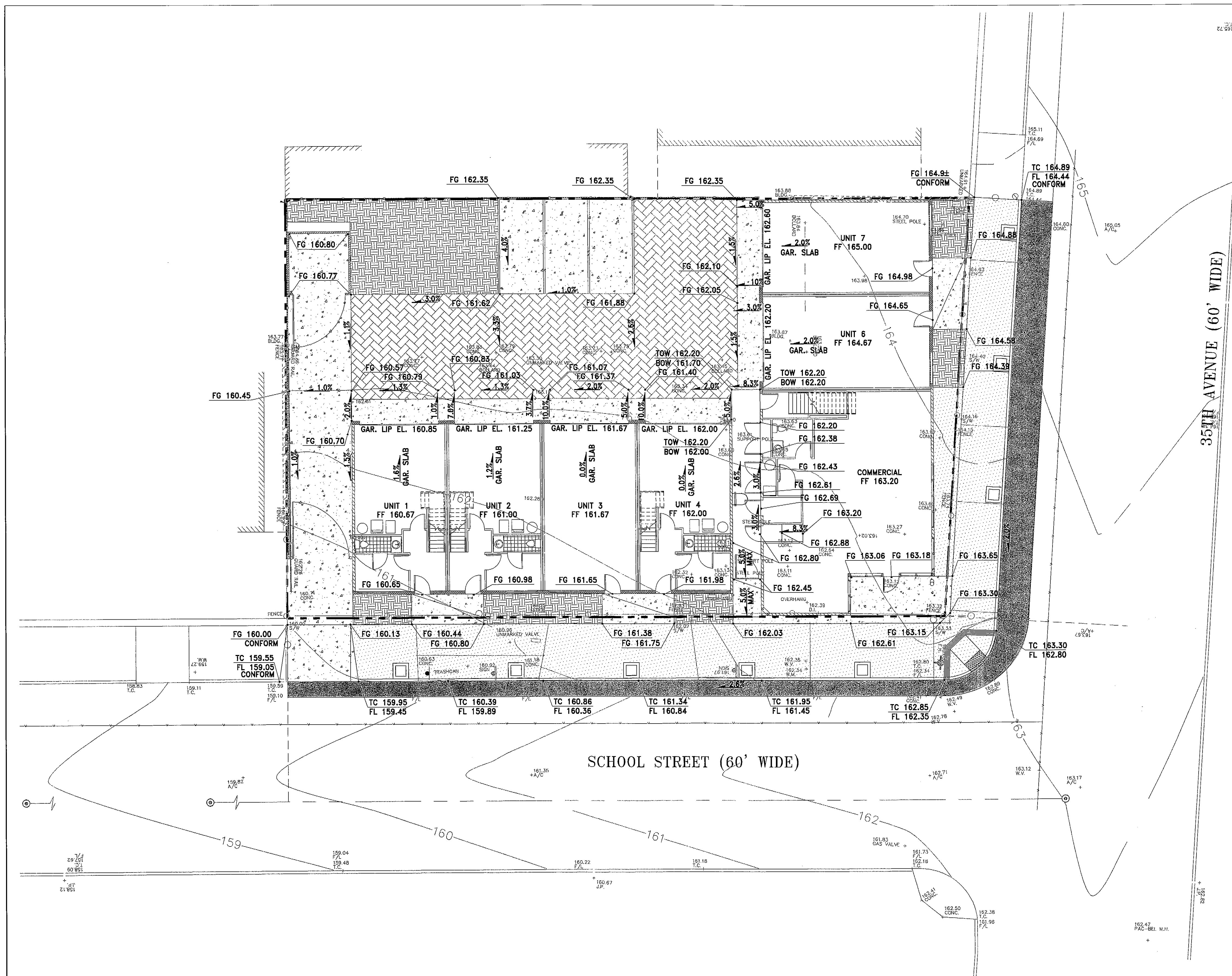
**Pacific Engineering & Construction, Inc.**  
 Consulting Engineers & Contractors

35 Stillman Street, Suite 126, San Francisco, CA 94107  
 Phone/Fax: (415) 974-1853. Call phone: (415) 516-8545  
 email: amwaldman@sbcglobal.net









No.	Description	Date

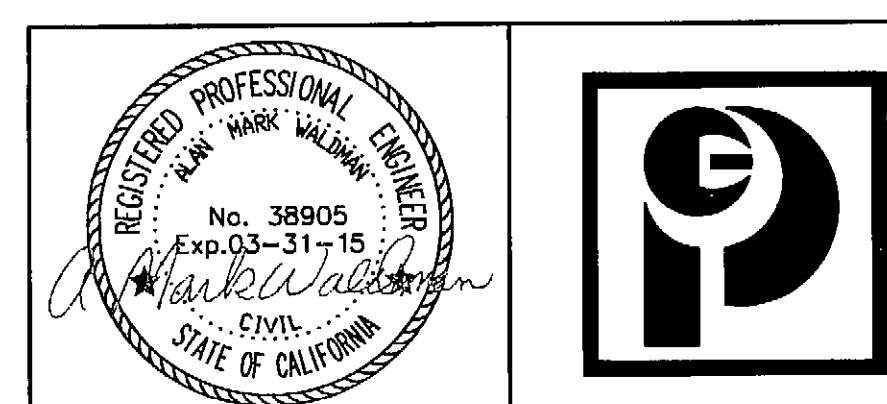
**35th @ School**  
Oakland, CA 94619

APN 028-0951-012-01

**GRADING & PAVING  
PLAN**

	0714
	11/14/07
	PVT
	AMW
	1"=10'

**C5.0**



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ARCHITECTURE

PHILIP BANTA & ASSOCIATES

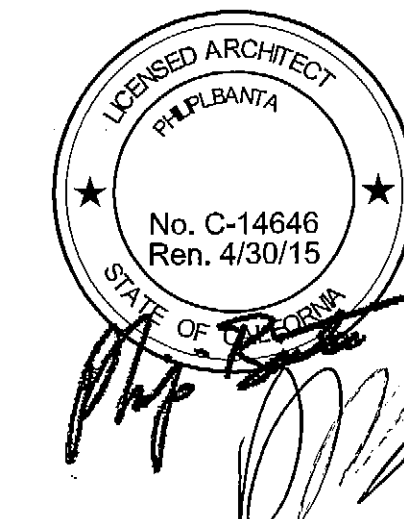
8050 HOLLIS STREET  
EMERYVILLE, CALIFORNIA 94608

TEL: 510.654.3255  
FAX: 510.654.3269  
www.philipbanta.com

REVISIONS:  $\Delta$  ISSUES:  $\circ$

No.	Description	Date
1	1ST PLAN CHECK REVIEW	01/14/14
2	BUILDING PERMIT	12/12/13

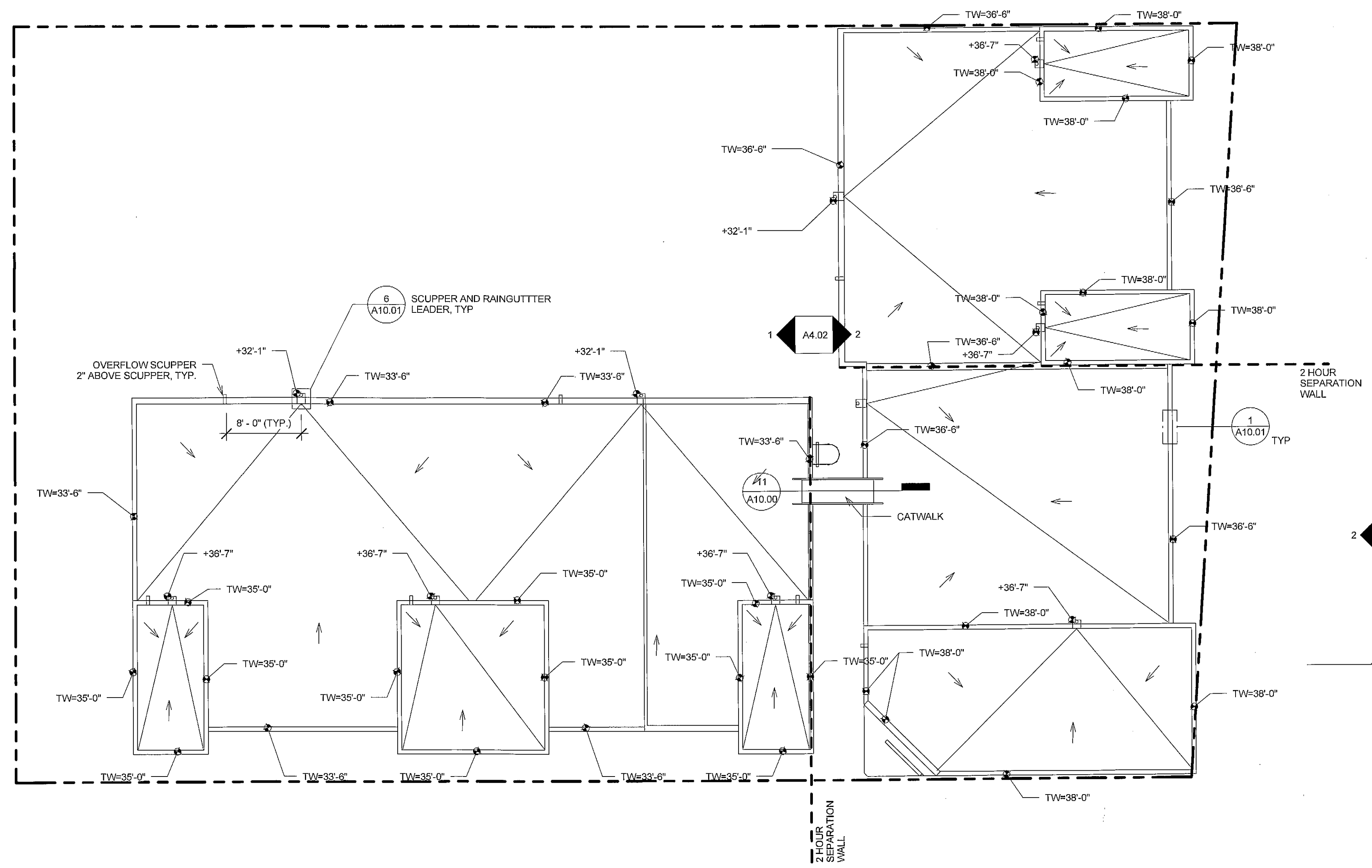
PROJECT: **35th @ School**  
Oakland, CA 94619



NOT TO BE USED FOR PERMITS AND CHECK SECTIONS FOR COMPLIANCE WITH CODES AND ORDINANCES REVISIONS NEED APPROVAL

BY: [Signature]  
 SUBJECT TO USC SECT 106.43  
 40 SECT 105.4 & IRC SECT R105.6  
 SURVEY (REVIEW ONLY)  
 PLOT PLAN REVIEW  
 PARKING/LANDSCAPE LAYOUT  
 CHARGING AND  
 TRAFFIC CONTROL  
 THIS REPORT ON FILE

HELD FOR REVIEW  
 12/27/2013 4:00:58 PM



1 ROOF AT UNITS 1-4  
1/8" = 1'-0"

ROOF PLAN LEGEND

ROOFING NOTES	
1. REFER TO SERIES A10 FOR TYPICAL FLASHING AT ROOF PENETRATIONS	4. REFER TO DETAIL 7 ON SHEET A9.00 FOR ROOF ASSEMBLY
2. ROOFING MATERIAL TO BE CLASS 'A' FOUR PLY, BUILT-UP ROOFING WITH A MINERAL CAP SHEET. UL CLASSIFICATION 'CLASS A' INSTALLATION PER MANUFACTURER'S SPECIFICATION SEE DETAIL 1 ON SHEET A10.01	5. REFER TO DETAIL 7 ON SHEET A9.00 FOR ROOF ASSEMBLY
3. ALL BUILT-UP ROOFS TO HAVE A MINIMUM 1/4" PER FOOT SLOPE IN ALL DIRECTIONS INCLUDING CRICKETS AND VALLEYS	6. REFER TO DETAIL 7 ON SHEET A9.00 FOR ROOF ASSEMBLY
	7. REFER TO DETAIL 7 ON SHEET A9.00 FOR ROOF ASSEMBLY

SHEET DESCRIPTION:  
**ROOF PLAN**

PROJECT NUMBER:	0714
DATE:	01/14/14
DRAWN BY:	JH/JY
CHECKED BY:	PB
SCALE:	1/8" = 1'-0"

**A1.04**





### GAS FURNACE & COOLING COIL SCHEDULE

EQUIP. TAG	MANUFACTURER & MODEL	AREA SERVED	SUPPLY FAN SECTION				COOLING/HEATING						ELECTRICAL REQUIREMENTS		OPERATING WEIGHT (LBS)	REMARKS						
			LOCATION	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	PRESSURE DROP (INWC)	MOTOR HORSE-POWER (HP)	ENTERING AIR TEMP. DB/WB (DEG F)	SENSIBLE COOLING CAPACITY (MBTUH)	TOTAL COOLING CAPACITY (MBTUH)	AMBIENT TEMP (DEG F)	EER	SEER	2ND STAGE HEATING INPUT (MBTUH)			A/FUE	ELECTRICAL SERVICE (V/PH/Hz)	MCA (A)	MOCP (A)	DX PIPE GAS/LIQ. CONN. (IN)	PIPE CONN. (IN)
GFF 1	CARRIER 58CTA070-12	COMMERCIAL TENANT	MECH. CLOSET	1,200	165	0.50	0.5	75.5/59.8	26.4	33.0	89	11.2	13.5	66.0	80	115/1/60	7.3	15.0	3/4 / 3/8	1/2	124	(1)(2)(3)(4)(5)(6)(7)
GFF 2	CARRIER 58CTA070-12	RESIDENTIAL UNIT TYPE A & A2	MECH. CLOSET	1,200	SEE TABLE	0.50	0.5	78.0/61.3	26.4	33.0	89	11.2	13.5	66.0	80	115/1/60	7.3	15.0	3/4 / 3/8	1/2	124	(1)(2)(3)(4)(5)(6)(7)
GFF 3	CARRIER 58CTA110-22	RESIDENTIAL UNIT TYPE B	MECH. CLOSET	1,990	SEE TABLE	0.50	0.75	78.0/61.2	44.8	56.0	89	11.0	13.2	110.0	80	115/1/60	13.7	20.0	1-1/8 / 3/8	1/2	163	(1)(2)(3)(4)(5)(6)(7)

- NOTES:**
- VERTICALLY MOUNTED GAS FURNACE WITH COOLING COIL.
  - REFRIGERANT LIQUID PIPING COMPONENTS: SHUT OFF VALVE, FILTER DRYER, ACCESS PORT, SOLENOID VALVE, MOISTURE & LIQUID INDICATOR AND THERMAL EXPANSION VALVE.
  - PROVIDE VIBRATION ISOLATORS.
  - PROVIDE MERV-13 FILTER FOR OUTSIDE AND RETURN AIR.
  - THERMOSTAT TO BE HONEYWELL TA 112-131.
  - GAS FURNACE TO BE LOCATED IN THE ROOM HAVING AT LEAST 50 OF PER 1,000 BTU OF GAS INPUT RATING.
  - REFRIGERANT DON'T CONTAIN CFC-S AND HALONS.
- ASHRAE 62.2  
REQUIRED FRESH AIR: (TOTAL SQFT/100) + (# OF BEDROOMS + 1) X 7.5 CFM
- | TYPICAL RESIDENTIAL APARTMENT |        | UNIT A | UNIT B |
|-------------------------------|--------|--------|--------|
| PER ASHRAE 62.2               | 50 CFM | 60 CFM | 60 CFM |

### SPLIT SYSTEM COOLING ONLY CONDENSING UNIT SCHEDULE

UNIT NO.	SERVES	MANUFACTURER	MODEL	PERFORMANCE			ELECTRICAL REQUIREMENTS										REMARKS		
				COOLING (MBH)	EER/SEER	HEATING (MBH)	HSPF	CONDENSER			AMB TEMP	SATURATED SUCT. TEMP	MCA	MOCP	VOLT/PH/Hz	COMPRESSOR		WEIGHT LBS	
								FANS	HP EACH	FLA (AMPS)						NO.	R.L. AMPS	L.R. AMPS	
CU-1	GFF-1	CARRIER	24ACA336-30	33.0	11.2/13.5	-	-	1	1/4	1.4	89	45	19.0	30	208/1/60	1	14.1/77.0	166	(1)(2)(3)(4)(5)(6)
CU-2	GFF-2	CARRIER	24ACA336-30	33.0	11.2/13.5	-	-	1	1/4	1.4	89	45	19.0	30	208/1/60	1	14.1/77.0	166	(1)(2)(3)(4)(5)(6)
CU-3	GFF-3	CARRIER	24ACA360-30	56.0	11.0/13.2	-	-	1	1/5	1.2	89	45	34.2	50	208/1/60	1	26.4/134.0	261	(1)(2)(3)(4)(5)(6)

- NOTES:**
- ROOF MOUNTED COOLING ONLY CONDENSING UNIT.
  - PROVIDE WITH VIBRATION ISOLATORS AND SEISMIC RESTRAINT.
  - PROVIDE WITH DISCONNECT SWITCH.
  - PROVIDE WITH COMPRESSOR SHORT CYCLE PROTECTOR.
  - PROVIDE WITH LOW AMBIENT CONTROL.
  - VERIFY REFRIGERANT PIPE SIZES TO COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.

### EXHAUST FAN SCHEDULE

EQUIP. TAG	MANUFACTURER & MODEL	SERVICE	LOCATION	AIR FLOW (CFM)	TOTAL STATIC PRESSURE (INWC)	REVOL./MINUTE (RPM)	MOTOR HORSE-POWER (HP)	ELECTRICAL SERVICE (V/PH/Hz)	OPERATING WEIGHT (LBS)	REMARKS
EF 1	PANASONIC FV-15VQL4	UNITS' RESTROOMS & BATHROOMS	CEILING	40-95	0.3	1,240	35.7 watts	115/1/60	14	(1)(2)(3)(4)(5)
DBF 1	FANTECH RVF4XL	APARTMENT DRYERS	EXTERIOR WALL	100	0.90	2,690	92.0	115/1/60	-	(6)(7)
DBF 2	FANTECH FR110	APARTMENT DRYER-UNIT 5	CEILING	100	0.90	2,761	78.0 watts	115/1/60	-	(7)(8)

- NOTES:**
- CEILING MOUNTED COMBINATION GRILLE/LIGHT/EXHAUST FAN.
  - TOILET LIGHT SWITCH OPERATED, WITH 10 SECONDS DELAY OF SWITCHING OFF.
  - PROVIDE BACKDRAFT DAMPER.
  - PROVIDE WITH FLEXIBLE DUCT CONNECTIONS.
  - PROVIDE WITH VIBRATION ISOLATORS.
  - DRYER BOOSTER FAN (EXTERIOR WALL MOUNTED).
  - EQUIPPED WITH DRYER BOOSTING KIT AND SECONDARY LINT FILTER TRAP.
  - DRYER BOOSTER FAN (N-LINE CEILING MOUNTED).

### AIR DEVICE SCHEDULE

MARK	NECK SIZE	DIFFUSER FACE OR CEILING GRID SIZE (INCHES)	TYPE			(NO.) & AIR PATTERN CFM RANGE	MOUNTING			DUTY					MFR.	MODEL NO.	REMARKS
			DIFFUSER	REGISTER	GRILLE		LAY-IN	SURFACE	SUPPLY	RETURN	EXHAUST	TRANSFER					
SG-1	10"x6"	11-3/4"x7-3/4"	-	-	X	100-180	-	X	X	-	-	-	-	-	TITUS	300RS	(1)(2)(3)
SG-2	14"x6"	15-3/4"x7-3/4"	-	-	X	245	-	X	X	-	-	-	-	-	TITUS	300RS	(1)(2)(3)
SG-3	6"ø	11-3/4"x11-3/4"	-	-	X	50-90	-	X	X	-	-	-	-	-	TITUS	300RS	(1)(2)(3)
SG-4	30"x6"	31-3/4"x7-3/4"	-	-	X	450	-	X	X	-	-	-	-	-	TITUS	300RS	(1)(2)(3)
RG-1	20"x20"	20-3/4"x20-3/4"	-	-	X	-1,200	-	X	-	X	-	-	-	-	TITUS	350RL	(2)(3)
RG-2	24"x22"	24-3/4"x22-3/4"	-	-	X	-1,990	-	X	-	X	-	-	-	-	TITUS	350RL	(2)(3)
RG-3	24"x16"	24-3/4"x16-3/4"	-	-	X	-1,200	-	X	-	X	-	-	-	-	TITUS	350RL	(2)(3)
TG-1	18"x12"	20-1/4"x14-1/4"	-	-	X	90-180	-	X	-	-	-	-	-	X	TITUS	T-700L	(2)(3)(4)
TG-2	30"x28"	32-1/4"x30-1/4"	-	-	X	90-180	-	X	-	-	-	-	-	X	TITUS	T-700L	(2)(3)(4)

- NOTES:**
- PROVIDE OPPOSED BLADE DAMPER.
  - TYPE AND CFM SHALL BE AS INDICATED ON DRAWING M2.1&M2.2 AT EACH GRILLE OR DIFFUSER.
  - SELECTION OF THE FINISHES OF AIR DISTRIBUTION DEVICES BY INTERIOR DESIGNER/ARCHITECT.
  - DOOR MOUNTING APPLICATION.

### MECHANICAL LEGEND

SYMBOL & ABBREVIATION	DESCRIPTION
SA/SUP	SUPPLY AIR (RISE/DROP)
RA/RET	RETURN AIR DUCT (RISE/DROP)
EA/EXH	EXHAUST AIR DUCT (RISE/DROP)
CD/SR	CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW)
RR/RC	RETURN REGISTER/GRILLE
ER/EG	EXHAUST REGISTER/GRILLE
FC	RECTANGULAR DUCT ELBOW WITH TURNING VANES
MVD	FLEXIBLE CONNECTION
FD	MANUAL VOLUME DAMPER
(L)	FIRE DAMPER
SD	DUCT LINING (1" THICK UNLESS OTHERWISE NOTED)
SMOKE	SMOKE DETECTOR
SD	DUCT TRANSITION (RECTANGULAR TO ROUND)
FLEX	FLEXIBLE DUCT (5'-0" MAXIMUM)
T-STAT	PROGRAMMABLE THERMOSTAT AT 48" AFF
SENSOR	SENSOR AT 48" AFF
CD	CONDENSATE DRAIN
Ø	DIAMETER
DL	DOOR LOUVER
UC	DOOR UNDERCUT (3/4" MINIMUM)
(M)	FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
(E)	FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
(ME)	FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
CO2	CARBON DIOXIDE SENSOR
SD-1	AIR OUTLET/INLET DEVICE DESIGNATION (S-SUPPLY, R-RETURN, E-EXHAUST)
100	AIR QUANTITY IN CFM
A.F.F.	ABOVE FINISHED FLOOR
BD	BALANCING DAMPER
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
CB	CIRCUIT BREAKER
CC	COOLING COIL
CAF	CAP FOR FUTURE
CLG.	CEILING
CONN.	CONNECT/CONNECTION
CONT.	CONTINUATION
CONTR.	CONTRACTOR
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB
Ø	DIAMETER
DET.	DETAIL
DISC.	DISCONNECT
DWN.	DOWN
DX	DIRECT EXPANSION
(E)	EXISTING
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EFF	EFFICIENCY W/ WITH
EWB	ENTERING WET BULB
F	FEET
FLEX.	FLEXIBLE CONNECTION
FLA	FULL LOAD AMPERES
FT.	FEET
GAL.	GAGE/GAUGE
GC	GENERAL CONTRACTOR
HP	HORSE POWER
HR	HEATING, VENTILATING, AND AIR CONDITIONING
ID	INSIDE DIMENSION
IN	INCHES
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LRA	LOCKED ROTOR AMPERES
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MFG.	MANUFACTURER
MCH.	MECHANICAL
MIN.	MINIMUM
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
Ø/ØSA	Ø/OUTSIDE AIR
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
R	RISE
(R)	EXISTING TO BE RELOCATED
RA	RETURN AIR
RPM	REVLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SENSIBLE	SENSIBLE
SF	SUPPLY FAN OR SQUARE FEET
SP	STATIC PRESSURE
S/S	STAINLESS STEEL
TYPE	TYPICAL
UNLESS OTHERWISE NOTED	UNLESS OTHERWISE NOTED
VAR	VARIABLE
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB
WG	WATER GAUGE
AC 1	MECHANICAL EQUIPMENT DESIGNATION DESIGNATED NUMBER

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS ARE NECESSARILY USED IN THIS PROJECT.

### GENERAL NOTES

- ALL WORK SHALL CONFORM TO 2010 CALIFORNIA MECHANICAL CODE WITH LOCAL AMENDMENTS, 2010 CALIFORNIA BUILDING CODE WITH LOCAL AMENDMENTS AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
- THE CONTRACTOR SHALL PAY FOR ALL PERMITS AND FEES.
- CONDENSATE DRAIN PIPING AND FINAL CONNECTION TO UNIT BY PLUMBING CONTRACTOR.
- ROOF CURB FOR ROOF MOUNTED UNIT. DUCT PENETRATION, CUTTING AND PATCHING BY GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED ON PLAN.
- CONNECT MAIN DUCT TO AIR CONDITIONING UNIT WITH WEATHERPROOF FLEXIBLE CONNECTION. SUN SHIELD OVER ENTIRE FLEXIBLE CONNECTION IS REQUIRED IF FLEXIBLE CONNECTION IS EXPOSED TO WEATHER.
- THIS CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR SIZE AND LOCATION OF DUCTWORK ROOF OPENINGS AND WITH ELECTRICAL CONTRACTOR FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT AND ARCHITECTURAL DRAWINGS FOR AIR DISTRIBUTION LOCATION.
- THE CONTRACTOR SHALL SUBMIT BID BASED ON THE DRAWINGS AND ALTERNATE FOR COST SAVING. THESE DRAWINGS ARE FOR BIDDING PURPOSES.
- COORDINATE ENTIRE INSTALLATION OF ROOFTOP UNITS WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY INSTALLATION, PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR COMPLETION OF THE WORK. ALL MATERIALS AND WORK SHALL COMPLY WITH APPLICABLE CODES AND GOVERNING REGULATIONS AND MEET THE APPROVAL OF THE LOCAL JURISDICTION.
- ANY MATERIAL, ARTICLE OR PIECE OF EQUIPMENT OTHER THAN THAT INDICATED SHALL NOT BE USED UNLESS APPROVED IN WRITING BY THE ENGINEER AND ANY CHANGES IN MECHANICAL, ELECTRICAL AND/OR OTHER SYSTEMS REQUIRED DUE TO SUCH SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR; AND AT NO ADDITIONAL COST TO THE OWNER.
- EXHAUST TERMINATION SHALL BE MINIMUM 10'-0" AWAY OR 3'-0" ABOVE ANY FRESH AIR INTAKE, OPERABLE WINDOWS, DOORS AND 10'-0" MINIMUM ABOVE GRADE.
- TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS BEFORE, DURING AND AFTER INSTALLATION. IN THE EVENT OF DAMAGE, IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- THREE SETS OF OPERATING AND MAINTENANCE MANUALS SHALL BE SUBMITTED UPON COMPLETION OF PROJECT.
- IN ADDITION TO EQUIPMENT WARRANTIES, FURNISH A WRITTEN GUARANTEE AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR ONE YEAR. GUARANTEE SHALL INCLUDE REPAIR OF DAMAGE TO, OR REPLACEMENT OF, ANY PART OF EQUIPMENT OR PREMISES CAUSED BY EQUIPMENT PROVIDED.
- THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ALL OTHER TRADES. THIS INCLUDES COORDINATING THE LOCATION AND SIZE OF ALL OPENINGS, LOCATIONS OF EQUIPMENT.
- ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING:  
EQUIPMENT ON GRADE     20% OF OPERATING WEIGHT  
EQUIPMENT ON STRUCTURE     30% OF OPERATING WEIGHT
- FOR FLEXIBILITY MOUNTED EQUIPMENT (EG., SPRING ISOLATORS) USE 4 TIMES THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 TIMES THE HORIZONTAL FORCE. THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR I=1.0.
- EACH SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2000 CFM SHALL BE EQUIPPED WITH AN AUTOMATIC SHUT-OFF. SHUT-OFFS SHALL STOP THE AIR MOVING EQUIPMENT WHEN SMOKE IS DETECTED IN MAIN SUPPLY AIR DUCT SERVED BY THE SYSTEM.

### DRAWING SCHEDULE

M0.01	LEGEND, NOTES & EQUIPMENT SCHEDULES
M0.02	MECHANICAL SPECIFICATIONS
M0.03-M0.08	TITLE 24
M2.01	TYPICAL UNIT MECHANICAL GROUND & SECOND FLOOR PLAN
M2.02	TYPICAL UNIT MECHANICAL THIRD FLOOR & ROOF PLAN
M2.03	UNIT 5 TYPE B MECHANICAL GROUND & SECOND FLOOR PLAN
M2.04	UNIT 5 TYPE B MECHANICAL THIRD FLOOR & ROOF PLAN
M6.01	MECHANICAL DETAILS
M9.01	MECHANICAL CONTROLS



NO.	DATE	DESCRIPTION

35th @ School  
Oakland, CA 94619

**ACIES ENGINEERING**  
111 W. Evelyn Avenue, Suite 301  
Sunnyvale, CA 94086  
PH: (650) 522-5255  
FX: (408) 522-5250  
info@acies.net  
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### LEGEND, NOTES & EQUIPMENT SCHEDULES

JOB NUMBER:	0714
SCALE:	N.T.S.
DATE:	12/12/13
DRAWN BY:	DS
CHECKED BY:	RT
CAD TITLE:	
SHEET NUMBER:	

# M0.01

OF SHEETS



**PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 1 of 3) PERF-1C**

Project Name: **35th & SCHOOL MIXED - USE** Date: **11/20/2013**

Project Address: **OAKLAND OAKLAND** Climate Zone: **CA Climate Zone 03** Total Cond. Floor Area: **1,096** Addition Floor Area: **n/a**

**GENERAL INFORMATION**

Building Type:  Nonresidential  High-Rise Residential  Hotel/Motel Guest Room

Phase of Construction:  New Construction  Addition  Alteration

**STATEMENT OF COMPLIANCE**

This certificate of compliance lists the building features and specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to a building using the performance compliance approach.

**Documentation Author**

Name: **Srjen G Retraze** Signature: [Signature] Date: **11/20/2013**

Company: **ACIES Engineering** Address: **111 W. Evelyn Ave. Suite 301, Sunnyvale, CA 94086** Phone: **(408) 522-5255**

**GENERAL INFORMATION**

Building Orientation: **(S) 180 deg** Conditioned Floor Area: **1,096 sqft.**

Number of Stories: **1** Unconditioned Floor Area: **0 sqft.**

Number of Zones: **2** Conditioned Footprint Area: **1,096 sqft.**

Number of Zones: **2** Natural Gas Available On Site: **Yes**

**FRONT ELEVATION**

Orientation	Gross Area	Glazing Area	Glazing Ratio
(S)	390 sqft.	722 sqft.	23.9%
(W)	444 sqft.	0 sqft.	0.0%
(N)	0 sqft.	0 sqft.	0.0%
(E)	526 sqft.	144 sqft.	27.3%
Total	1,366 sqft.	266 sqft.	19.5%

**ROOF**

Standard	Proposed	Prescriptive Values for Comparison only
0.885 W/sqft.	0.885 W/sqft.	
40.311	29.111	

**REMARKS:**

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**PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 2 of 3) PERF-1C**

Project Name: **35th & SCHOOL MIXED - USE** Date: **11/20/2013**

**ANNUAL TDV ENERGY USE SUMMARY (kBtu/sqft-yr)**

Energy Component	Standard Design	Proposed Design	Compliance Margin
Space Heating	13.16	13.00	0.16
Space Cooling	57.73	49.39	14.33
Indoor Fans	52.41	39.73	13.20
Heat Rejection	0.00	0.00	0.00
Pumps & Misc.	0.00	0.00	0.00
Domestic Hot Water	16.00	10.22	5.78
Lighting	54.91	54.91	0.00
Receptacle	81.62	81.62	0.00
Process	0.00	0.00	0.00
Process Lighting	0.00	0.00	0.00
TOTALS	276.35	242.88	33.47

Percent better than Standard: **12.1%** ( 12.1% excluding process)

**BUILDING COMPLIES**

**GENERAL INFORMATION**

Building Orientation: **(S) 180 deg** Conditioned Floor Area: **1,096 sqft.**

Number of Stories: **1** Unconditioned Floor Area: **0 sqft.**

Number of Zones: **2** Conditioned Footprint Area: **1,096 sqft.**

Number of Zones: **2** Natural Gas Available On Site: **Yes**

**FRONT ELEVATION**

Orientation	Gross Area	Glazing Area	Glazing Ratio
(S)	390 sqft.	722 sqft.	23.9%
(W)	444 sqft.	0 sqft.	0.0%
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(E)	526 sqft.	144 sqft.	27.3%
Total	1,366 sqft.	266 sqft.	19.5%

**ROOF**

Standard	Proposed	Prescriptive Values for Comparison only
0.885 W/sqft.	0.885 W/sqft.	
40.311	29.111	

**REMARKS:**

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**PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 3 of 3) PERF-1C**

Project Name: **35th & SCHOOL MIXED - USE** Date: **11/20/2013**

**ZONE INFORMATION**

System Name	Zone Name	Occupancy Type	Floor Area (sqft)	Inst. LPD (W/sft)	Chf. Credits (W/sft)	Allowed LPD Area (W/sft)	Proc. Loads (W/sft)
CU-1/OFF-1	COMMERCIAL - RESTROOM	Conitor/Restroom/Support	53	*0.600			
	COMMERCIAL - TENANT	Office > 250 sqft	1,043	*0.900			

**EXCEPTIONAL CONDITIONS COMPLIANCE CHECKLIST**

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 to be used with the performance approach. The local enforcement agency determines the adequacy of the justifications, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

**REVISIONS**  **ISSUES**

NO.	DATE	DESCRIPTION

PROJECT: 12/13/2013 BUILDING PERMIT SET

The exceptional features listed in this performance approach application have specifically been reviewed. Adequate written justification and documentation for their use have been provided by the applicant.

Authorized Signature or Stamp: [Signature]

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**CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 3) ENV-1C**

Project Name: **35th & SCHOOL MIXED - USE** Date: **11/20/2013**

Project Address: **OAKLAND OAKLAND** Climate Zone: **3** Total Cond. Floor Area: **1,096** Addition Floor Area: **n/a**

**GENERAL INFORMATION**

Building Type:  Nonresidential  High-Rise Residential  Hotel/Motel Guest Room

Phase of Construction:  New Construction  Addition  Alteration

Front Orientation: N, E, S, W or In Degrees: **180 deg**

**FIELD INSPECTION ENERGY CHECKLIST**

TagID	Assembly Type	Area (ft <sup>2</sup> )	Orientation	INSULATION		Interior R-Value	Interior R-Value	Interior R-Value	4" Cellulose	Insulation	Condition	Pass	Fail
				U-Factor	Reqd. R-Value								
1	Slab	53	(N)	0.730	None				4.4.7-A1	New	<input type="checkbox"/>	<input type="checkbox"/>	
2	Wall	120	(W)	0.074	R-19				4.3.1-A5	New	<input type="checkbox"/>	<input type="checkbox"/>	
3	Wall	284	(S)	0.074	R-19				4.3.1-A5	New	<input type="checkbox"/>	<input type="checkbox"/>	
4	Slab	1,043	(N)	0.730	None				4.4.7-A1	New	<input type="checkbox"/>	<input type="checkbox"/>	
5	Wall	384	(E)	0.074	R-19				4.3.1-A5	New	<input type="checkbox"/>	<input type="checkbox"/>	
6	Wall	303	(W)	0.074	R-19				4.3.1-A5	New	<input type="checkbox"/>	<input type="checkbox"/>	
7	Door	21	(W)	0.300	None				4.3.1-A4	New	<input type="checkbox"/>	<input type="checkbox"/>	

**FENESTRATION SURFACE DETAILS**

TagID	Fenestration Type	Area (ft <sup>2</sup> )	Orientation	U-Factor	Reqd. U-Factor	SHGC	SHGC	Condition	Pass	Fail
1	Window	24	(S)	0.580	NFRC	0.450	NFRC	New	<input type="checkbox"/>	<input type="checkbox"/>
2	Window	24	(S)	0.580	NFRC	0.450	NFRC	New	<input type="checkbox"/>	<input type="checkbox"/>
3	Window	30	(S)	0.580	NFRC	0.450	NFRC	New	<input type="checkbox"/>	<input type="checkbox"/>
4	Window	24	(S)	0.580	NFRC	0.450	NFRC	New	<input type="checkbox"/>	<input type="checkbox"/>
5	Window	144	(E)	0.580	NFRC	0.450	NFRC	New	<input type="checkbox"/>	<input type="checkbox"/>

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**CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 2 of 3) ENV-1C**

Project Name: **35th & SCHOOL MIXED - USE** Date: **11/20/2013**

**ROOFING PRODUCT (COOL ROOFS)**

Note: If the roofing product is not CRRC certified, this compliance approach cannot be used. Go to Overall Envelope Approach of Performance Approach.

CRRC Product ID Number	Roof Slope	Product Weight	Product Type	Agd Solar Reflectance	Thermal Emittance	SRI	Pass	Fail
	≤ 2:12 > 2:12	≤ 88lb / sqft > 88lb / sqft					<input type="checkbox"/>	<input type="checkbox"/>

**TEST DESCRIPTION**

Fenestration Products Name or ID Requiring Testing or Verification	Area of like Products	Building Envelope Acceptance Test	Test Performed By:
WC 6200 Alum/low-E	246	<input checked="" type="checkbox"/>	

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**CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 3 of 3) ENV-1C**

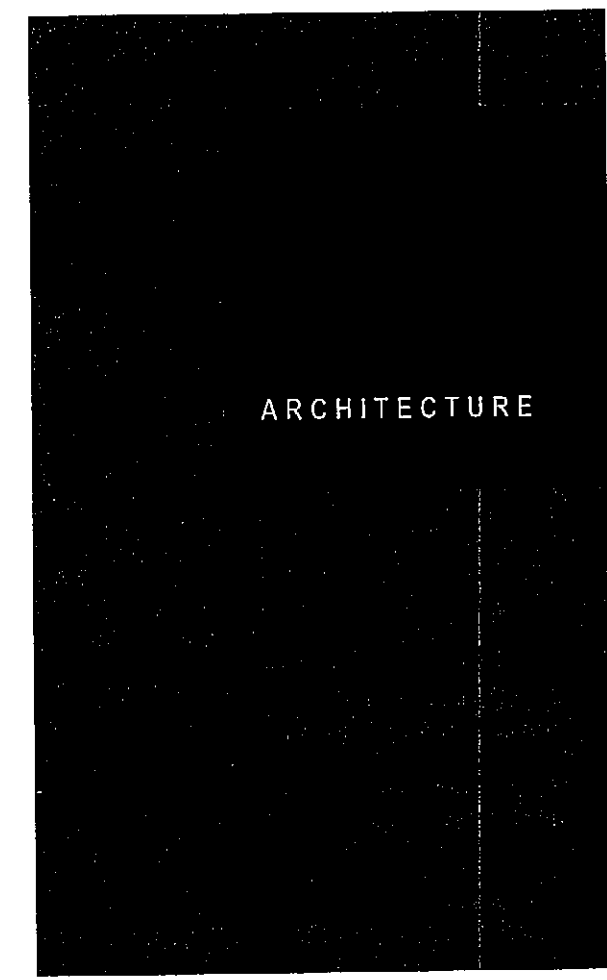
Project Name: **35th & SCHOOL MIXED - USE** Date: **11/20/2013**

**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 Envelope Fenestration system. The designer is required to check the acceptance tests and list all the fenestration products that require an acceptance test. If all the site-built fenestration of a certain type requires a test, list the different fenestration products and the number of systems. The NAT 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.

**Enforcement Agency:** Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or whenever new fenestration is installed in the building or space shall be certified as meeting the Acceptance Requirements. The ENV-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 form 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 forms before the building can receive final occupancy. A copy of the ENV-2A for each different fenestration product line must be provided to the owner of the building for their records.

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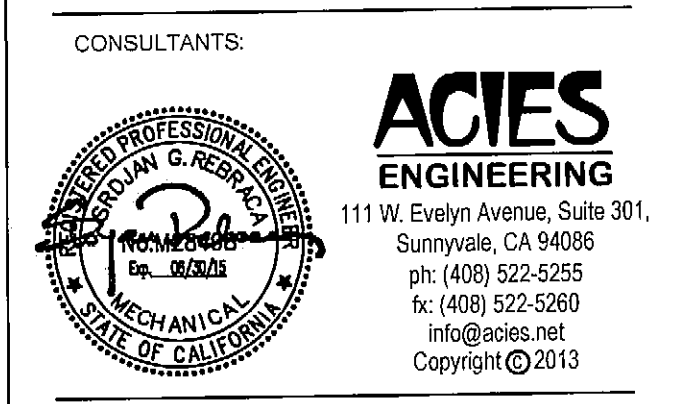


REVISIONS  ISSUES

NO.	DATE	DESCRIPTION

PROJECT: 12/13/2013 BUILDING PERMIT SET

35th @ School  
Oakland, CA 94619



**SHEET DESCRIPTION:**  
**TITLE 24**

JOB NUMBER: 0714  
SCALE: N.T.S.  
DATE: 12/12/13  
DRAWN BY: DS  
CHECKED BY: RT  
CAD TITLE:  
SHEET NUMBER:

**M0.3**  
OF SHEETS



AIR SYSTEM REQUIREMENTS (Part 1 of 2) MECH-2C		Date
Project Name 35th & SCHOOL MIXED - USE		11/20/2013
Indicate Air Systems Type (Central, Single Zone, Package, VAV, or etc...)		
Item or System Tags (I.e. AC-1, RTU-1, HP-1)	CU-1/GFF-1	
Number of Systems	1	
Indicate Page Reference on Plans or Schedule and indicate the applicable exception(s)		
<b>MANDATORY MEASURES</b>		
Heating Equipment Efficiency	112(a)	80% AFUE
Cooling Equipment Efficiency	112(a)	13.5 SEER / 11.2 EER
HVAC Heat Pump Thermostat	112(b), 112(c)	Yes
Furnace Controls/Thermostat	112(c), 112(d)	Required
Natural Ventilation	121(a)	No
Mechanical Ventilation	121(b)	154 cfm
VAV Minimum Position Control	121(c)	No
Demand Control Ventilation	121(d)	No
Time Control	122(a)	Programmable Switch
Setback and Setup Control	122(a)	Setback Required
Outdoor Damper Control	122(b)	Auto
Isolation Zones	122(c)	Yes
Pipe Insulation	123	123
Duct Location / Pressure	124	Attic, Ceiling Ins., vented / E.O.
<b>PRESCRIPTIVE MEASURES</b>		
Calculated Design Heating Load	144(a) & (b)	Yes
Proposed Heating Capacity	144(a) & (b)	54,000 Btu/hr
Calculated Design Cooling Load	144(a) & (b)	Yes
Proposed Cooling Capacity	144(a) & (b)	26,388 Btu/hr
Fan Control	144(c)	Constant Volume
DP Sensor Location	144(d)	Yes
Supply Pressure Reset (DDC only)	144(e)	No
Simultaneous Heat/Cool	144(f)	No Economizer
Economizer	144(g)	Constant Temp
Heat Air Supply Reset	144(h)	Constant Temp
Cool Air Supply Reset	144(i)	Constant Temp
Electric Resistance Heating <sup>1</sup>	144(j)	No
Air Cooled Chiller Limitation	144(k)	No
Duct Leakage Sealing, If Yes, a MECH-4-A must be submitted	144(l)	No
1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used explain which exception(s) to §144(j) apply.		
EnergyPro 5.1 by EnergySoft User Number: 5387 RunCode: 2013-11-20/14-35-37 ID: 2007458 Page 11 of 16		

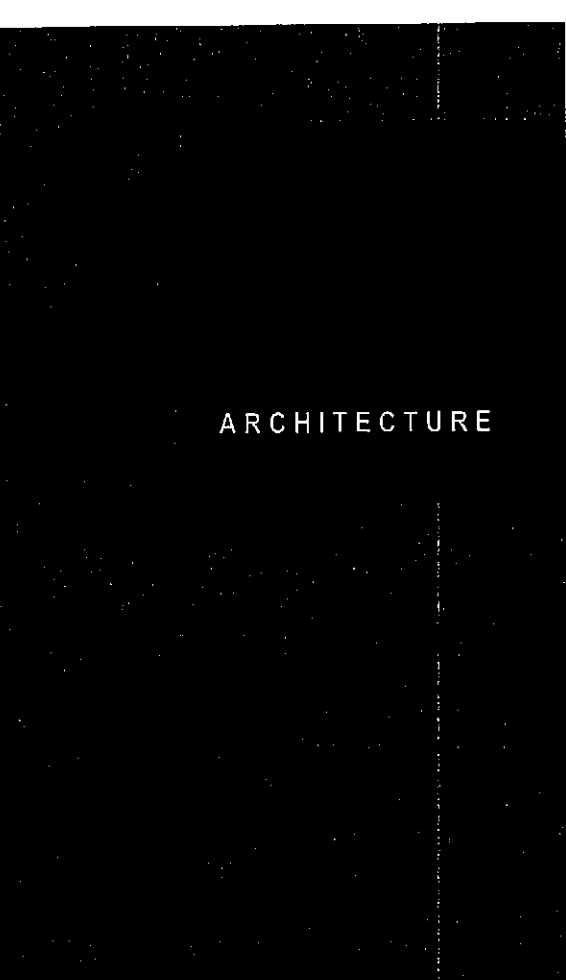
WATER SIDE SYSTEM REQUIREMENTS (Part 2 of 2) MECH-2C		Date
Project Name 35th & SCHOOL MIXED - USE		11/20/2013
WATER SIDE SYSTEMS: Chillers, Towers, Boilers, Hydronic Loops		
Item or System Tags (I.e. AC-1, RTU-1, HP-1)		
Number of Systems		
Indicate Page Reference on Plans or Specification <sup>1</sup>		
<b>MANDATORY MEASURES</b>		
Equipment Efficiency	112(a)	123
Pipe Insulation	123	123
<b>PRESCRIPTIVE MEASURES</b>		
Cooling Tower Fan Controls	144(a) & (b)	
Cooling Tower Flow Controls	144(b)	
Variable Flow System Design	144(c)	
Chiller and Boiler Isolation	144(d)	
CHW and HWH Reset Controls	144(e)	
WLP Isolation Valves	144(f)	
VSD on CHW, CW & WLP Pumps/SHF	144(g)	
DP Sensor Location	144(h)	
1. The proposed equipment needs to match the building plans schedule or specifications. If a requirement is not applicable, put "NA" in the column next to applicable section. 2. For each chiller, cooling tower, boiler, and hydronic loop (or groups of similar equipment) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "NA" in the column next to applicable section.		
<b>Service Hot Water, Pool Heating</b>		
Item or System Tags (I.e. WH-1, VHP, DHW, etc...) <sup>1</sup>	DHW Heater	
Number of Systems	1	
Indicate Page Reference on Plans or Schedule <sup>2</sup>		
<b>MANDATORY MEASURES</b>		
<b>SERVICE HOT WATER</b>		
Certified Water Heater	111, 113(a)	A.O. SMITH GPVX-50L
Water Heater Efficiency	113(b)	0.90 EF
Service Water Heating Installation	113(c)	Controls Req.
Pipe Insulation	123	Required
<b>POOL AND SPA</b>		
Pool and Spa Efficiency and Control	114(a)	Yes
Pool and Spa Installation	114(b)	Yes
Pool Heater - No Pilot Light	115(c)	Yes
Spa Heater - No Pilot Light	115(d)	Yes
Pipe Insulation	123	Yes
1. The proposed equipment needs to match the building plans schedule or specifications. If a requirement is not applicable, put "NA" in the column next to applicable section. 2. For each water heater, pool heater and domestic water loop (or groups of similar equipment) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "NA" in the column next to applicable section.		
EnergyPro 5.1 by EnergySoft User Number: 5387 RunCode: 2013-11-20/14-35-37 ID: 2007458 Page 12 of 16		

MECHANICAL VENTILATION AND REHEAT (Part 2 of 2) MECH-3C		Date	
Project Name 35th & SCHOOL MIXED - USE		11/20/2013	
MECHANICAL VENTILATION (§121(b)(2))			
Zone/System	AREA BASIS	OCCUPANCY BASIS	REHEAT LIMITATION (§144(d))
	Condition Area (ft²)	Min CFM By Area & X.C.	Min CFM by Occupant
COMMERCIAL RESTROOM	63	0.15	0
COMMERCIAL TENANT	1,043	0.15	156
CU-1/GFF-1			
Totals			Column I Total Design Ventilation Air
C Minimum ventilation rate per Section §121, Table 121-A.			
E Based on fixed seat or the greater of the expected number of occupants and 50% of the CBC occupant load for egress purposes for spaces without fixed seating.			
H Required Ventilation Air (REQD V.A.) is the larger of the ventilation rates calculated on an AREA BASIS or OCCUPANCY BASIS (Column D or G).			
I Must be greater than or equal to H, or use Transfer Air (Column N) to make up the difference.			
J Design fan supply CFM (Fan CFM) x 50%; or this design zone outdoor airflow rate per §121.			
K Condition area (ft²) x 0.4 CFM/ft².			
L Maximum of Columns H, J, K, or 200 CFM.			
M This must be less than or equal to Column L and greater than or equal to the sum of Columns H plus N.			
N Transfer Air must be provided where the Required Ventilation Air (Column H) is greater than the Design Minimum Air (Column M). Where required, transfer air must be greater than or equal to the difference between the Required Ventilation Air (Column H) and the Design Minimum Air (Column M), Column L minus M.			
EnergyPro 5.1 by EnergySoft User Number: 5387 RunCode: 2013-11-20/14-35-37 ID: 2007458 Page 13 of 16			

MECHANICAL EQUIPMENT DETAILS (Part 1 of 2) MECH-5C		Date
Project Name 35th & SCHOOL MIXED - USE		11/20/2013
<b>CHILLER AND TOWER SUMMARY</b>		
Equipment Name	Type	Qty.
<b>DHW / BOILER SUMMARY</b>		
System Name	Type	Distribution
A.O. SMITH GPVX-50L	Small Gas	Gas Pipe Ins.
<b>MULTI-FAMILY CENTRAL WATER HEATING DETAILS</b>		
Control	Qty.	HP
<b>CENTRAL SYSTEM RATINGS</b>		
System Name	Type	Output
CARRIER 24ACA336-39/SBC7A670-12	Split DX	94,000
<b>CENTRAL SYSTEM FAN SUMMARY</b>		
System Name	Fan Type	Economizer Type
CARRIER 24ACA336-39/SBC7A670-12	Constant Volume	No Economizer
EnergyPro 5.1 by EnergySoft User Number: 5387 RunCode: 2013-11-20/14-35-37 ID: 2007458 Page 14 of 16		

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL ENV-MM		Date
Project Name 35th & SCHOOL MIXED - USE		11/20/2013
<b>DESCRIPTION</b>		
<b>Building Envelope Measures:</b>		
§118(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for Insulating material, Title 20 Chapter 4, Article 3.	
§118(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2202 and 707 of Title 24, Part 2.	
§118(f):	The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-13 between framing members.	
§117(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.	
§116(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft² of window area, 0.3 cfm/ft² of door area for residential doors, 0.3 cfm/ft² of door area for nonresidential single doors (swingings and sliding), and 1.0 cfm/ft² for nonresidential double doors (swingings).	
§116(a) 2:	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.	
§116(a) 3:	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.	
§116(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).	
EnergyPro 5.1 by EnergySoft User Number: 5387 RunCode: 2013-11-20/14-35-37 ID: 2007458 Page 15 of 16		

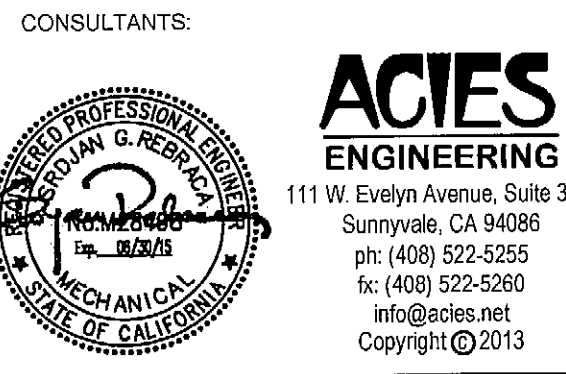
MECHANICAL MANDATORY MEASURES: NONRESIDENTIAL MECH-MM		Date
Project Name 35th & SCHOOL MIXED - USE		11/20/2013
<b>Equipment and System Efficiencies</b>		
§111:	Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard.	
§115(a):	Fan type central furnaces shall not have a pilot light.	
§123:	Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123.	
§124:	Air handling duct systems shall be installed and insulated in compliance with Sections 601, 602, 603, 604, and 605 of the CMC Standards.	
<b>Controls</b>		
§122(a):	Each space conditioning system shall be installed with one of the following:	
1A:	Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends and have program backup capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted; or	
1B:	An occupancy sensor to control the operating period of the system; or	
1C:	A 4-hour timer that can be manually operated to control the operating period of the system.	
2:	Each space conditioning system shall be installed with controls that temporarily reset and temporarily operate the system as required to maintain a setback heating and/or a setup cooling thermostat setpoint.	
§122(g):	Each space conditioning system serving multiple zones with a combined conditioned floor area more than 26,000 square feet shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation devices, such as valves or dampers that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above.	
§122(i):	Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel.	
§122(j):	Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone.	
§122(k):	Each space conditioning system shall be controlled by an individual thermostat that responds to temperatures within the zone. Where used to control heating, the control shall be adjustable down to 65 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a deadband of at least 5 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum.	
<b>Ventilation</b>		
§121(a):	Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified on these plans.	
§122(f):	All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings.	
§121(f):	Ventilation System Acceptance. Before an occupancy permit is granted for a newly constructed building or space, or a new ventilating system serving a building or space is operated for normal use, all ventilation systems serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.	
<b>Service Water Heating Systems</b>		
§113(c):	Installation	
3:	Temperature controls for public lavatories. The controls shall limit the outlet temperature to 110°F.	
2:	Circulating service water-heating systems shall have a control capable of automatically turning off the circulating pump when hot water is not required.	
EnergyPro 5.1 by EnergySoft User Number: 5387 RunCode: 2013-11-20/14-35-37 ID: 2007458 Page 16 of 16		



REVISIONS		ISSUES
NO.	DATE	DESCRIPTION

12/15/2013 BUILDING PERMIT SET  
PROJECT:

35th @ School  
Oakland, CA 94619



SHEET DESCRIPTION  
TITLE 24

JOB NUMBER: 0714  
SCALE: N.T.S.  
DATE: 12/12/13  
DRAWN BY: DS  
CHECKED BY: RT  
CAD TITLE:  
SHEET NUMBER:

M0.5

OF SHEETS



PERFORMANCE CERTIFICATE: Residential (Part 1 of 5) CF-1R						
Project Name	Building Type	Single Family	Addition/Alteration	Date		
35th & SCHOOL MIXED - USE	Multi Family	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11/20/2013		
3101 35th Street OAKLAND	CA Climate Zone 03	Total Cond. Floor Area	Addition	# of Stories		
		9,580	n/a	3		
<b>FIELD INSPECTION ENERGY CHECKLIST</b>						
<input type="checkbox"/> Yes <input type="checkbox"/> No HERS Measures -- If Yes, A CF-4R must be provided per Part 2 of 5 of this form. <input type="checkbox"/> Yes <input type="checkbox"/> No Special Features -- If Yes, see Part 2 of 5 of this form for details.						
INSULATION		Area	Special			
Construction	Type	Cavity	Features (see Part 2 of 5)	Status		
Wall	Wood Framed	R-19	0.223	New		
Door	Opaque Door	None	1.38	New		
Slab	Uninsulated Slab-on-Grade	None	1.148	Perim = 18'		
Roof	Wood Framed Rafters	R-30	3.459	New		
<b>FENESTRATION</b>						
Orientation	Area (ft²)	U-Factor	SHGC	Overhang	Sideline	Exterior Shades
Front (S)	702.0	0.590	0.45	none	none	Bug Screen
Left (W)	354.0	0.590	0.45	none	none	Bug Screen
Right (E)	84.0	0.590	0.45	5.0	none	Louvered Sunscreen
Roof (R)	18.0	0.590	0.45	10.0	none	Louvered Sunscreen
Rear (N)	351.0	0.590	0.45	none	none	Bug Screen
Right (E)	504.0	0.590	0.45	none	none	Bug Screen
Front (S)	84.0	0.590	0.45	5.0	none	Louvered Sunscreen
Left (W)	18.0	0.590	0.45	10.0	none	Louvered Sunscreen
Front (S)	48.0	0.590	0.45	none	7.50.0	Bug Screen
Right (E)	36.0	0.590	0.45	none	7.50.0	Bug Screen
Right (SE)	7.5	0.590	0.45	none	none	Bug Screen
<b>HVAC SYSTEMS</b>						
Qty.	Heating	Min. Eff	Cooling	Min. Eff	Thermostat	Status
1	Central Furnace	80% AFUE	Split Air Conditioner	13.5 SEER	Setback	New
1	Central Furnace	80% AFUE	Split Air Conditioner	13.5 SEER	Setback	New
1	Central Furnace	80% AFUE	Split Air Conditioner	13.5 SEER	Setback	New
<b>HVAC DISTRIBUTION</b>						
Location	Heating	Cooling	Duct Location	Duct R-Value	Status	
CU-2/GFF-2 UNIT 1	Ducted	Ducted	Attic, Ceiling Ins, vented	6.0	New	
CU-2/GFF-2 UNIT 2	Ducted	Ducted	Attic, Ceiling Ins, vented	6.0	New	
CU-2/GFF-2 UNIT 3	Ducted	Ducted	Attic, Ceiling Ins, vented	6.0	New	
<b>WATER HEATING</b>						
Qty.	Type	Gallons	Min. Eff	Distribution	Status	
7	Small Gas	39	0.90	Kitchen Pipe Ins	New	

PERFORMANCE CERTIFICATE: Residential (Part 1 of 5) CF-1R						
Project Name	Building Type	Single Family	Addition/Alteration	Date		
35th & SCHOOL MIXED - USE	Multi Family	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11/20/2013		
3101 35th Street OAKLAND	CA Climate Zone 03	Total Cond. Floor Area	Addition	# of Stories		
		9,580	n/a	3		
<b>FIELD INSPECTION ENERGY CHECKLIST</b>						
<input type="checkbox"/> Yes <input type="checkbox"/> No HERS Measures -- If Yes, A CF-4R must be provided per Part 2 of 5 of this form. <input type="checkbox"/> Yes <input type="checkbox"/> No Special Features -- If Yes, see Part 2 of 5 of this form for details.						
INSULATION		Area	Special			
Construction	Type	Cavity	Features (see Part 2 of 5)	Status		
Wall	Wood Framed	R-19	0.223	New		
Door	Opaque Door	None	1.38	New		
Slab	Uninsulated Slab-on-Grade	None	1.148	Perim = 18'		
Roof	Wood Framed Rafters	R-30	3.459	New		
<b>FENESTRATION</b>						
Orientation	Area (ft²)	U-Factor	SHGC	Overhang	Sideline	Exterior Shades
Right (E)	42.0	0.590	0.45	5.0	none	Louvered Sunscreen
Rear (N)	8.0	0.590	0.45	10.0	none	Louvered Sunscreen
Right (E)	42.0	0.590	0.45	5.0	none	Louvered Sunscreen
Front (S)	8.0	0.590	0.45	10.0	none	Louvered Sunscreen
<b>HVAC SYSTEMS</b>						
Qty.	Heating	Min. Eff	Cooling	Min. Eff	Thermostat	Status
1	Central Furnace	80% AFUE	Split Air Conditioner	13.5 SEER	Setback	New
1	Central Furnace	80% AFUE	Split Air Conditioner	13.5 SEER	Setback	New
1	Central Furnace	80% AFUE	Split Air Conditioner	13.5 SEER	Setback	New
<b>HVAC DISTRIBUTION</b>						
Location	Heating	Cooling	Duct Location	Duct R-Value	Status	
CU-2/GFF-2 UNIT 4	Ducted	Ducted	Attic, Ceiling Ins, vented	6.0	New	
CU-2/GFF-2 UNIT 5	Ducted	Ducted	Attic, Ceiling Ins, vented	6.0	New	
CU-2/GFF-2 UNIT 6	Ducted	Ducted	Attic, Ceiling Ins, vented	6.0	New	
<b>WATER HEATING</b>						
Qty.	Type	Gallons	Min. Eff	Distribution	Status	

PERFORMANCE CERTIFICATE: Residential (Part 1 of 5) CF-1R						
Project Name	Building Type	Single Family	Addition/Alteration	Date		
35th & SCHOOL MIXED - USE	Multi Family	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11/20/2013		
3101 35th Street OAKLAND	CA Climate Zone 03	Total Cond. Floor Area	Addition	# of Stories		
		9,580	n/a	3		
<b>FIELD INSPECTION ENERGY CHECKLIST</b>						
<input type="checkbox"/> Yes <input type="checkbox"/> No HERS Measures -- If Yes, A CF-4R must be provided per Part 2 of 5 of this form. <input type="checkbox"/> Yes <input type="checkbox"/> No Special Features -- If Yes, see Part 2 of 5 of this form for details.						
INSULATION		Area	Special			
Construction	Type	Cavity	Features (see Part 2 of 5)	Status		
Wall	Wood Framed	R-19	0.223	New		
Door	Opaque Door	None	1.38	New		
Slab	Uninsulated Slab-on-Grade	None	1.148	Perim = 18'		
Roof	Wood Framed Rafters	R-30	3.459	New		
<b>FENESTRATION</b>						
Orientation	Area (ft²)	U-Factor	SHGC	Overhang	Sideline	Exterior Shades
Front (S)	702.0	0.590	0.45	none	none	Bug Screen
Left (W)	354.0	0.590	0.45	none	none	Bug Screen
Right (E)	84.0	0.590	0.45	5.0	none	Louvered Sunscreen
Roof (R)	18.0	0.590	0.45	10.0	none	Louvered Sunscreen
Rear (N)	351.0	0.590	0.45	none	none	Bug Screen
Right (E)	504.0	0.590	0.45	none	none	Bug Screen
Front (S)	84.0	0.590	0.45	5.0	none	Louvered Sunscreen
Left (W)	18.0	0.590	0.45	10.0	none	Louvered Sunscreen
Front (S)	48.0	0.590	0.45	none	7.50.0	Bug Screen
Right (E)	36.0	0.590	0.45	none	7.50.0	Bug Screen
Right (SE)	7.5	0.590	0.45	none	none	Bug Screen
<b>HVAC SYSTEMS</b>						
Qty.	Heating	Min. Eff	Cooling	Min. Eff	Thermostat	Status
1	Central Furnace	80% AFUE	Split Air Conditioner	13.5 SEER	Setback	New
1	Central Furnace	80% AFUE	Split Air Conditioner	13.5 SEER	Setback	New
1	Central Furnace	80% AFUE	Split Air Conditioner	13.5 SEER	Setback	New
<b>HVAC DISTRIBUTION</b>						
Location	Heating	Cooling	Duct Location	Duct R-Value	Status	
CU-2/GFF-2 UNIT 7	Ducted	Ducted	Attic, Ceiling Ins, vented	6.0	New	
<b>WATER HEATING</b>						
Qty.	Type	Gallons	Min. Eff	Distribution	Status	

PERFORMANCE CERTIFICATE: Residential (Part 2 of 5) CF-1R						
Project Name	Building Type	Single Family	Addition/Alteration	Date		
35th & SCHOOL MIXED - USE	Multi Family	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11/20/2013		
3101 35th Street OAKLAND	CA Climate Zone 03	Total Cond. Floor Area	Addition	# of Stories		
		9,580	n/a	3		
<b>SPECIAL FEATURES INSPECTION CHECKLIST</b>						
This enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification to be used with the performance approach. The 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.						
<b>HERS REQUIRED VERIFICATION</b>						
Items in this section require field testing and/or verification by a certified HERS Rater. The inspector must receive a completed CF-4R form for each of the measures listed below for final to be given.						

PERFORMANCE CERTIFICATE: Residential (Part 3 of 5) CF-1R						
Project Name	Building Type	Single Family	Addition/Alteration	Date		
35th & SCHOOL MIXED - USE	Multi Family	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11/20/2013		
3101 35th Street OAKLAND	CA Climate Zone 03	Total Cond. Floor Area	Addition	# of Stories		
		9,580	n/a	3		
<b>ANNUAL ENERGY USE SUMMARY</b>						
Standard	Proposed	Margin				
TDV (kBtu/ft²-yr)	14.65	18.79	-5.14			
Space Heating	6.69	4.00	2.69			
Space Cooling	4.23	4.11	0.12			
Fans	23.88	14.81	9.09			
Domestic Hot Water	0.00	0.00	0.00			
Pumps	49.26	42.51	6.75			
Totals			13.75%			
Percent Better Than Standard:						
<b>BUILDING COMPLIES - NO HERS VERIFICATION REQUIRED</b>						
Building Front Orientation:	(3) 180 deg	Ext. Walls/Roof	(3)	Wall Area	963	
Number of Dwelling Units:	7.00	Roof	(0)	Area	2,496	
Fuel Available at Site:	Natural Gas	Floor Area	(0)	Area	372	
Raised Floor Area:	0	Slab on Grade Area:	(0)	Area	814	
Slab on Grade Area:	1.48	Average Ceiling Height:	10.0	Fenestration	Average U-Factor: 0.59	
Average Ceiling Height:	10.0	Fenestration	Average SHGC: 0.46			
Fenestration	Average U-Factor: 0.59			TOTAL:	2,309	
Average SHGC:	0.46			Fenestration/CFA Ratio:	24.1%	
<b>REMARKS</b>						
This certificate of compliance lists the building features and specifications needed to comply with Title 24, Parts 1 through 6 of the Administrative Regulations and Part 6 of the Efficiency Standards of the California Code of Regulations.						
<b>STATEMENT OF COMPLIANCE</b>						
The documentation author hereby certifies that the documentation is accurate and complete.						
<b>Documentation Author</b>						
Company	ACIES Engineering			Signed	11/20/2013	
Address	111 W. Evelyn Ave. Suite 301			Name	Sergio O. Roberts	
City/State/Zip	San Mateo, CA 94068			Phone	(415) 322-5255	
The individual with overall design responsibility hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application, and recognizes that compliance using duct design, duct sealing, verification of refrigerant charge, insulation installation quality, and building envelope sealing require installer testing and certification and field verification by an approved HERS rater.						
<b>Designer or Owner (per Business &amp; Professions Code)</b>						
Company	PHILIP BANTA & ASSOCIATES			Signed	Date	
Address	6050 HOLLIS STREET			Name	PHILIP BANTA & ASSOCIATES	
City/State/Zip	EMERYVILLE, CA 94608			Phone	510.854.3255	

CERTIFICATE OF COMPLIANCE: Residential (Part 4 of 5) CF-1R							
Project Name	Building Type	Single Family	Addition/Alteration	Date			
35th & SCHOOL MIXED - USE	Multi Family	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11/20/2013			
3101 35th Street OAKLAND	CA Climate Zone 03	Total Cond. Floor Area	Addition	# of Stories			
		9,580	n/a	3			
<b>OPAQUE SURFACE DETAILS</b>							
Surface	Type	Area	U-Factor	SHGC	Azm	Status	
Wall	270	0.085	R-19	0.45	90	New	
Wall	180	0.085	R-19	0.45	90	New	
Door	23	1.450	None	0.18	90	New	
Slab	181	0.730	None	0.18	None	New	
Roof	344	0.085	R-19	0.45	270	New	
Wall	37	0.085	R-19	0.45	90	New	
Wall	89	0.085	R-19	0.45	90	New	
Wall	133	0.085	R-19	0.45	90	New	
Wall	220	0.085	R-19	0.45	90	New	
Wall	100	0.085	R-19	0.45	90	New	
Wall	63	0.085	R-19	0.45	90	New	
Wall	131	0.085	R-19	0.45	90	New	
Floor	478	0.038	R-30	0.18	0	New	
Roof	156	0.085	R-19	0.45	180	New	
Door	23	1.450	None	0.18	90	New	
Slab	181	0.730	None	0.18	None	New	
<b>FENESTRATION SURFACE DETAILS</b>							
ID	Type	Area	U-Factor	SHGC	Azm	Status	
1	Window	24.0	0.590	NFRFC	0.45	NFRFC	
2	Window	36.0	0.590	NFRFC	0.45	NFRFC	
3	Window	36.0	0.590	NFRFC	0.45	NFRFC	
4	Window	42.0	0.590	NFRFC	0.45	NFRFC	
5	Window	8.0	0.590	NFRFC	0.45	NFRFC	
6	Window	42.0	0.590	NFRFC	0.45	NFRFC	
7	Window	60.0	0.590	NFRFC	0.45	NFRFC	
8	Window	10.0	0.590	NFRFC	0.45	NFRFC	
9	Window	60.0	0.590	NFRFC	0.45	NFRFC	
10	Window	16.0	0.590	NFRFC	0.45	NFRFC	
11	Window	42.0	0.590	NFRFC	0.45	NFRFC	
12	Window	24.0	0.590	NFRFC	0.45	NFRFC	
13	Window	36.0	0.590	NFRFC	0.45	NFRFC	
14	Window	42.0	0.590	NFRFC	0.45	NFRFC	
15	Window	8.0	0.590	NFRFC	0.45	NFRFC	
16	Window	42.0	0.590	NFRFC	0.45	NFRFC	
<b>EXTERIOR SHADING DETAILS</b>							
ID	Exterior Shade Type	SHGC	Window Hgt	Window Len	Overhang Hgt	Left Fin Len	Right Fin Len
1	Bug Screen	0.78					
2	Bug Screen	0.78					

CERTIFICATE OF COMPLIANCE: Residential (Part 4 of 5) CF-1R
Project Name: 35th & SCHOOL MIXED - USE
Building Type: Single Family, Addition/Alteration
Date: 11/20/2013
OPAGUE SURFACE DETAILS
FENESTRATION SURFACE DETAILS
EXTERIOR SHADING DETAILS

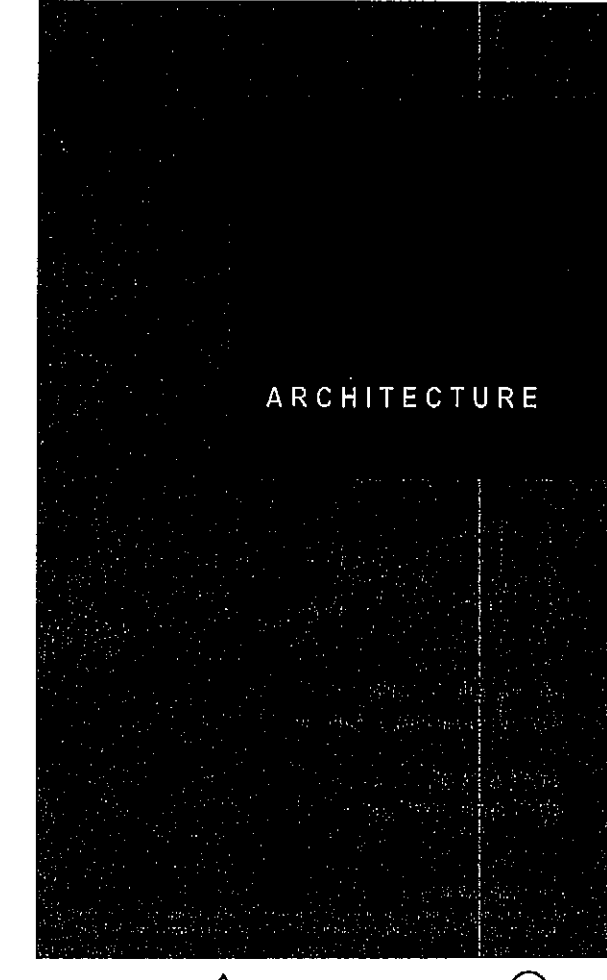
CERTIFICATE OF COMPLIANCE: Residential (Part 4 of 5) CF-1R
Project Name: 35th & SCHOOL MIXED - USE
Building Type: Single Family, Addition/Alteration
Date: 11/20/2013
OPAGUE SURFACE DETAILS
FENESTRATION SURFACE DETAILS
EXTERIOR SHADING DETAILS

CERTIFICATE OF COMPLIANCE: Residential (Part 4 of 5) CF-1R
Project Name: 35th & SCHOOL MIXED - USE
Building Type: Single Family, Addition/Alteration
Date: 11/20/2013
OPAGUE SURFACE DETAILS
FENESTRATION SURFACE DETAILS
EXTERIOR SHADING DETAILS

CERTIFICATE OF COMPLIANCE: Residential (Part 4 of 5) CF-1R
Project Name: 35th & SCHOOL MIXED - USE
Building Type: Single Family, Addition/Alteration
Date: 11/20/2013
OPAGUE SURFACE DETAILS
FENESTRATION SURFACE DETAILS
EXTERIOR SHADING DETAILS

CERTIFICATE OF COMPLIANCE: Residential (Part 5 of 5) CF-1R
Project Name: 35th & SCHOOL MIXED - USE
Building Type: Single Family, Addition/Alteration
Date: 11/20/2013
BUILDING ZONE INFORMATION
HVAC SYSTEMS
HVAC DISTRIBUTION
WATER HEATING SYSTEMS

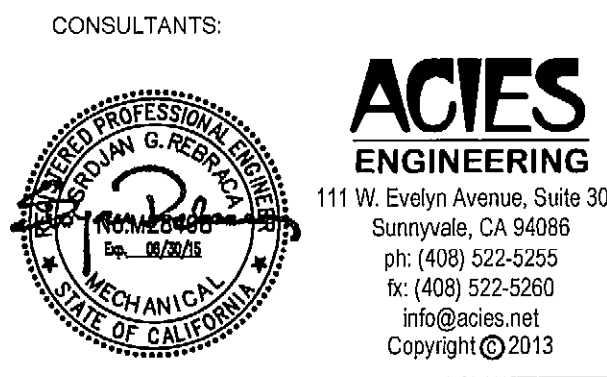
CERTIFICATE OF COMPLIANCE: Residential (Part 5 of 5) CF-1R
Project Name: 35th & SCHOOL MIXED - USE
Building Type: Single Family, Addition/Alteration
Date: 11/20/2013
BUILDING ZONE INFORMATION
HVAC SYSTEMS
HVAC DISTRIBUTION
WATER HEATING SYSTEMS



REVISIONS table with columns: NO., DATE, DESCRIPTION

PROJECT: BUILDING PERMIT SET

35th @ School
Oakland, CA 94619



SHEET DESCRIPTION: TITLE 24

JOB NUMBER: 0714
SCALE: N.T.S.
DATE: 12/12/13
DRAWN BY: DS
CHECKED BY: RT

M0.7
OF SHEETS



ARCHITECTURE

PHILIP BANTA & ASSOCIATES

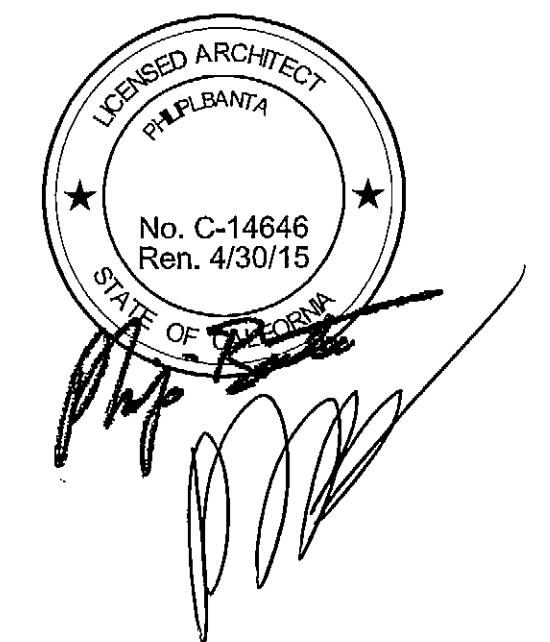
1653 HOLLIS STREET  
EMERYVILLE, CALIFORNIA 94609

TEL: 510.654.3255  
FAX: 510.654.3259  
www.philipbanta.com

REVISIONS:  ISSUES:

No.	Description	Date
1/	1ST PLAN CHECK REVIEW	01/14/14
1	BUILDING PERMIT	12/12/13

PROJECT: **35th @ School**  
Oakland, CA 94619

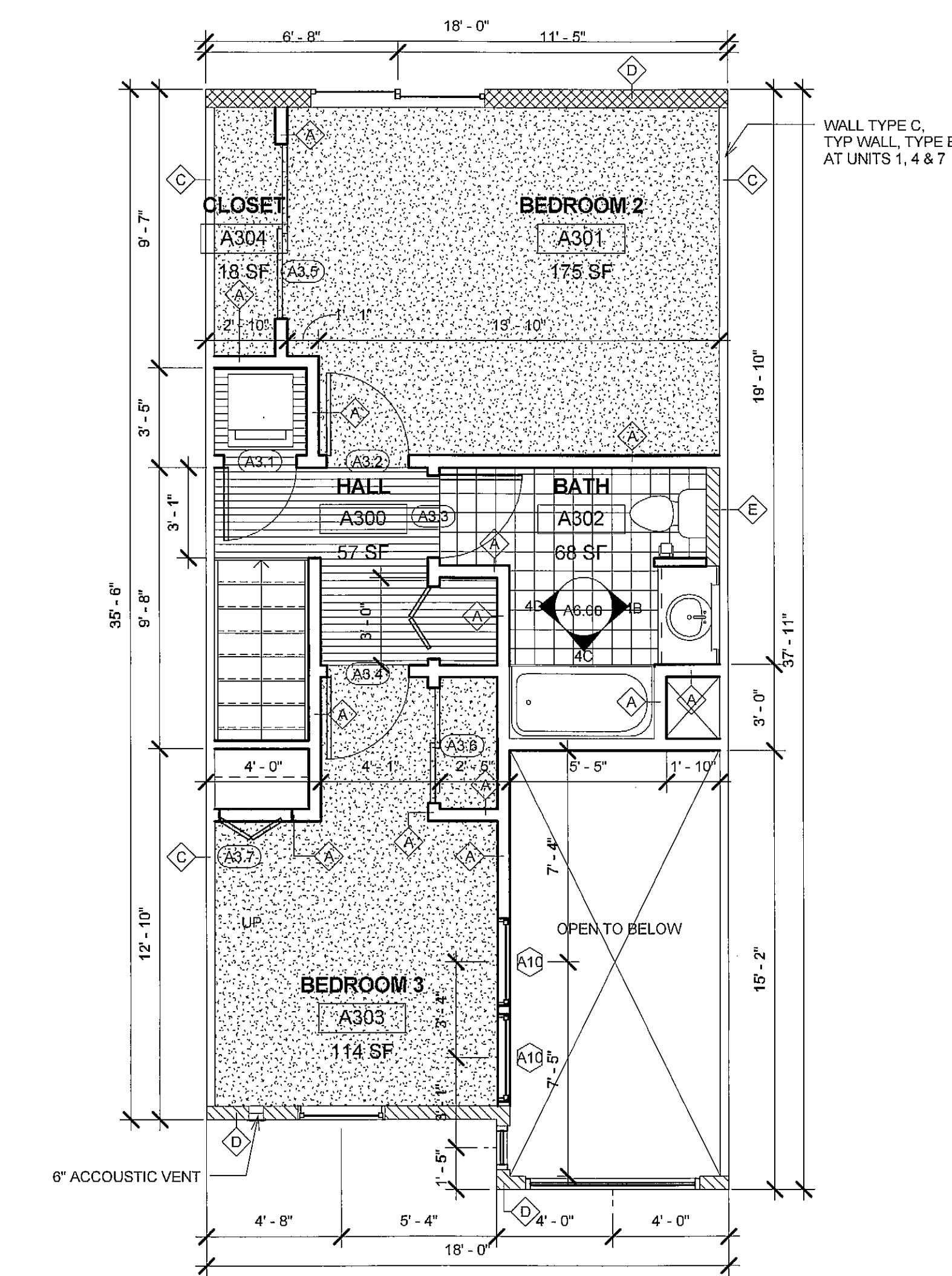


SHEET DESCRIPTION:  
**UNIT A PLANS**

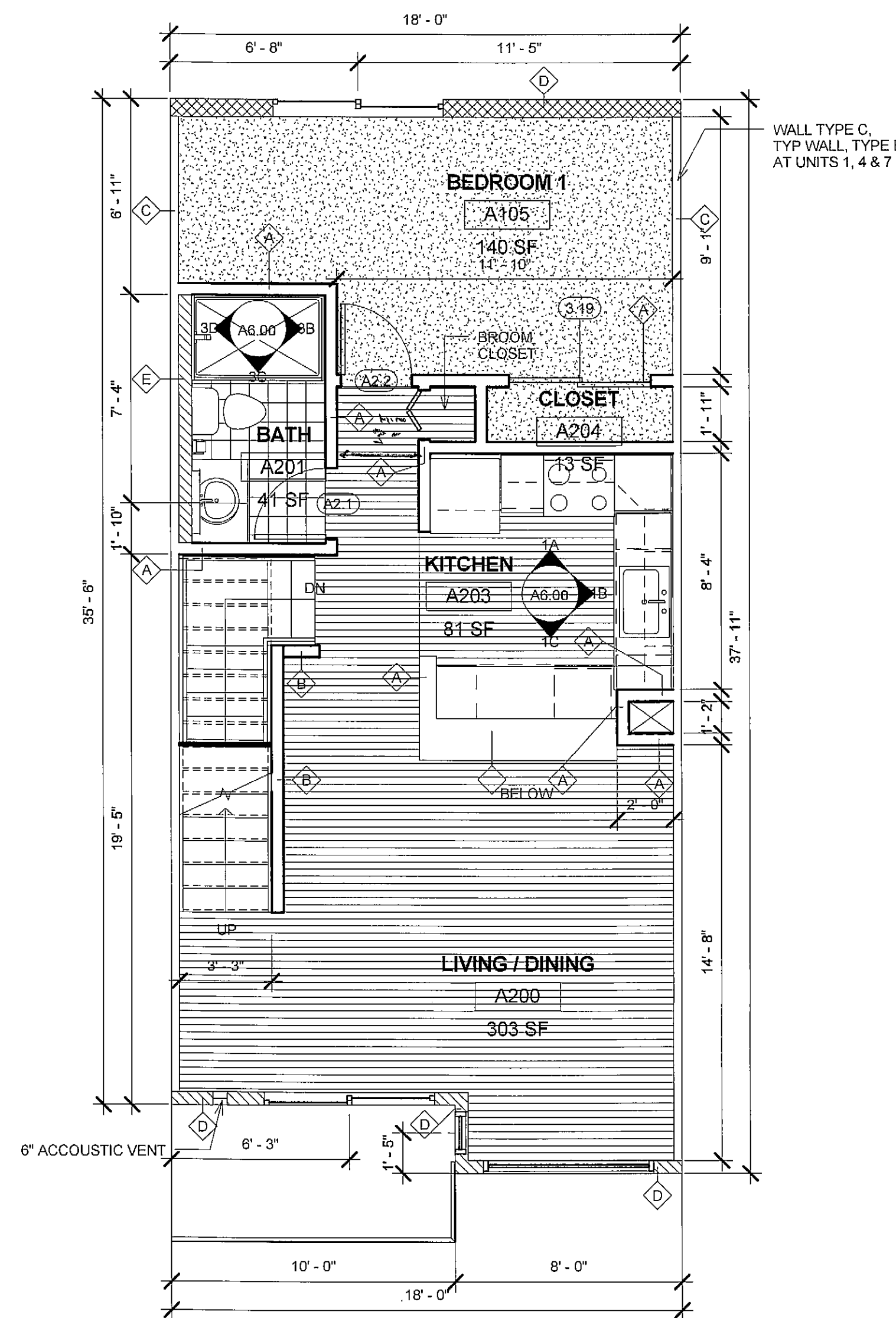
**APPLICANT COPY**

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JH/JY  
CHECKED BY: PB  
SCALE: 1/4" = 1'-0"

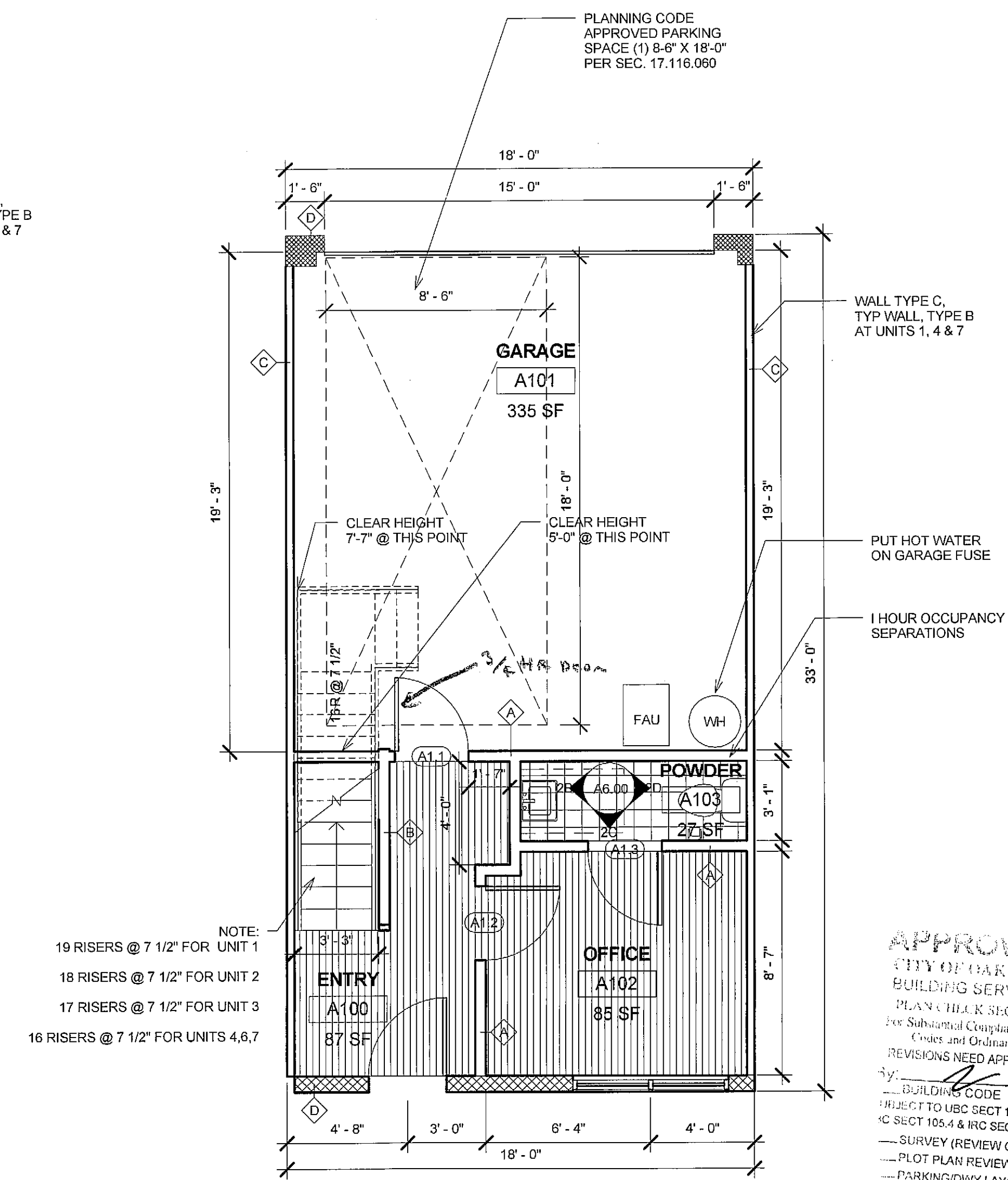
**A2.00**



3 UNIT A 3RD FLOOR  
1/4" = 1'-0"



2 UNIT A 2ND FLOOR  
1/4" = 1'-0"



1 UNIT A 1ST FLOOR  
1/4" = 1'-0"

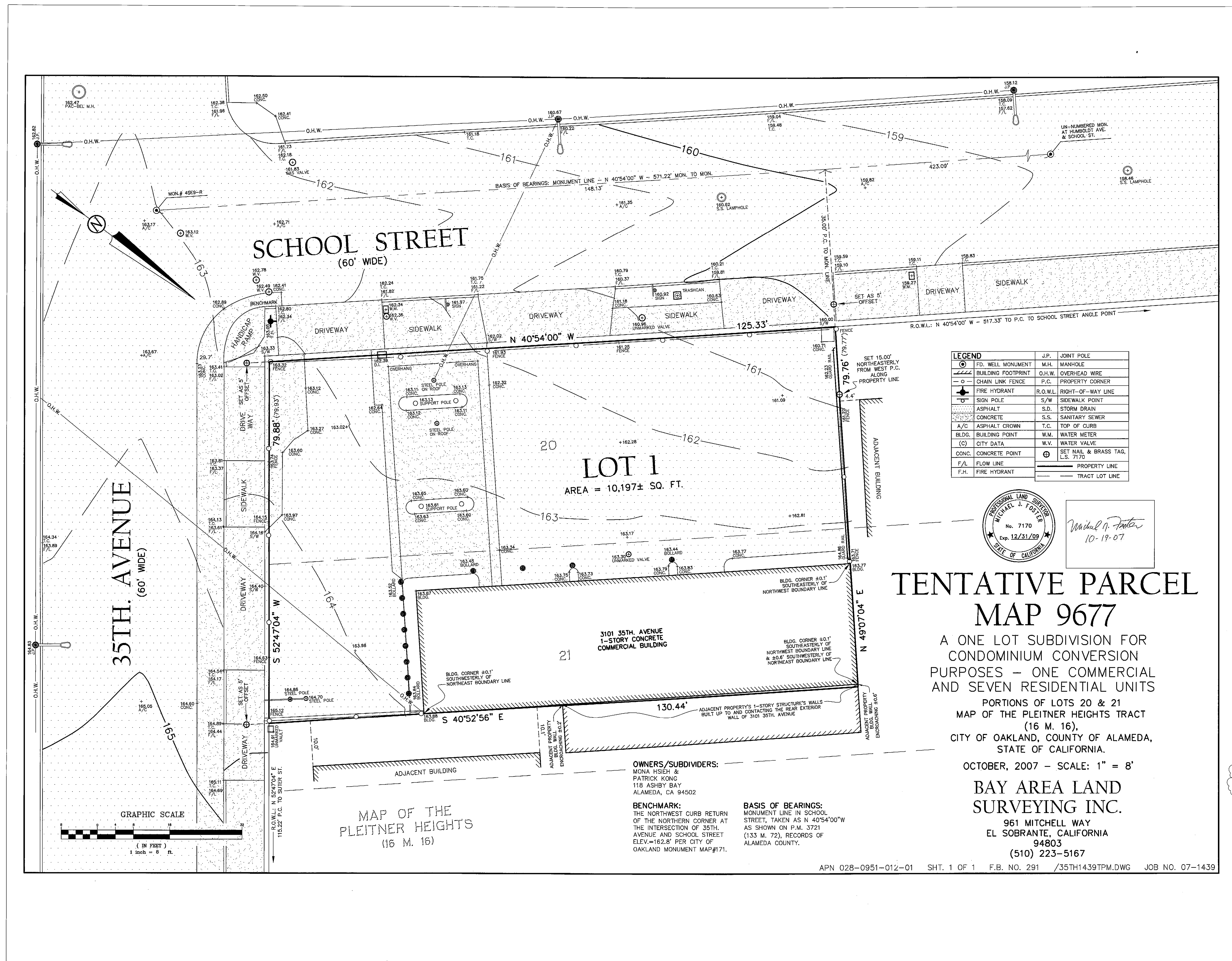
**BUILDING PLAN LEGEND**

	CONCRETE		2x4 STUD WALL
	CERAMIC TILE		2x6 STUD WALL
	CARPET		2x8 STUD WALL
	LAMINATE WOOD FLOORING		
	CEILING DROPPED TO 8'-0"		

**BUILDING PLAN NOTES**

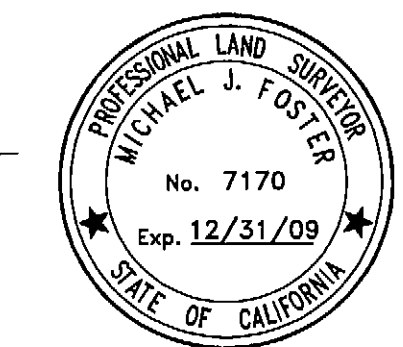
1. FOR WALL TYPES REFER PAGE 9.00
2. ALL INTERIOR WALLS TO BE WALL TYPE A UNLESS OTHERWISE NOTED
3. EXTERIOR DOOR TAGS & WINDOW TAGS ARE LOCATED IN BUILDING PLANS A.1 SERIES
4. SEE SHEET A7.00 FOR ROOM FINISH SCHEDULE

12/7/2013 4:01:00 PM



**LEGEND**

FD. WELL MONUMENT	J.P. JOINT POLE
BUILDING FOOTPRINT	M.H. MANHOLE
CHAIN LINK FENCE	O.H.W. OVERHEAD WIRE
FIRE HYDRANT	P.C. PROPERTY CORNER
SIGN POLE	R.O.W.L. RIGHT-OF-WAY LINE
ASPHALT	S/W SIDEWALK POINT
CONCRETE	S.D. STORM DRAIN
A/C ASPHALT CROWN	S.S. SANITARY SEWER
B.L.G. BUILDING POINT	T.C. TOP OF CURB
(C) CITY DATA	W.M. WATER METER
CONC. CONCRETE POINT	W.V. WATER VALVE
F/L FLOW LINE	SET NAIL & BRASS TAG, L.S. 7170
F.H. FIRE HYDRANT	PROPERTY LINE
	TRACT LOT LINE



*Michael J. Foster*  
10-19-07

## TENTATIVE PARCEL MAP 9677

A ONE LOT SUBDIVISION FOR CONDOMINIUM CONVERSION PURPOSES - ONE COMMERCIAL AND SEVEN RESIDENTIAL UNITS  
PORTIONS OF LOTS 20 & 21  
MAP OF THE PLEITNER HEIGHTS TRACT (16 M. 16),  
CITY OF OAKLAND, COUNTY OF ALAMEDA, STATE OF CALIFORNIA.

OCTOBER, 2007 - SCALE: 1" = 8'

**BAY AREA LAND SURVEYING INC.**

961 MITCHELL WAY  
EL SOBRANTE, CALIFORNIA 94803  
(510) 223-5167

**OWNERS/SUBDIVIDERS:**  
MONA HSIEH &  
PATRICK KONG  
118 ASHBY BAY  
ALAMEDA, CA 94502

**BENCHMARK:**  
THE NORTHWEST CURB RETURN OF THE NORTHERN CORNER AT THE INTERSECTION OF 35TH AVENUE AND SCHOOL STREET ELEV.=162.8' PER CITY OF OAKLAND MONUMENT MAP#171.

**BASIS OF BEARINGS:**  
MONUMENT LINE IN SCHOOL STREET, TAKEN AS N 40°54'00" W AS SHOWN ON P.M. 3721 (133 M. 72), RECORDS OF ALAMEDA COUNTY.

APN 028-0951-012-01 SHT. 1 OF 1 F.B. NO. 291 /35TH1439TPM.DWG JOB NO. 07-1439

ARCHITECTURE

**PHILIP BANTA & ASSOCIATES**

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EMERYVILLE, CALIFORNIA 94608

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FAX: 510.654.3259  
www.pbantadesign.com

---

REVISIONS:  ISSUES:

No.	Description	Date
1/1	1ST PLAN CHECK REVIEW	01/14/14
1/1	BUILDING PERMIT	12/12/13

PROJECT:

### 35th @ School

Oakland, CA 94619

SHEET DESCRIPTION:  
**SURVEY**

---

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JH/JY  
CHECKED BY: PB  
SCALE: 1" = 10'-0"

## GEN-04

12/7/2013 4:32:26 PM

REVISIONS		ISSUES
NO.	DATE	DESCRIPTION

PROJECT: 12/13/2013 BUILDING PERMIT SET

**35th @ School**  
Oakland, CA 94619

CONSULTANTS:

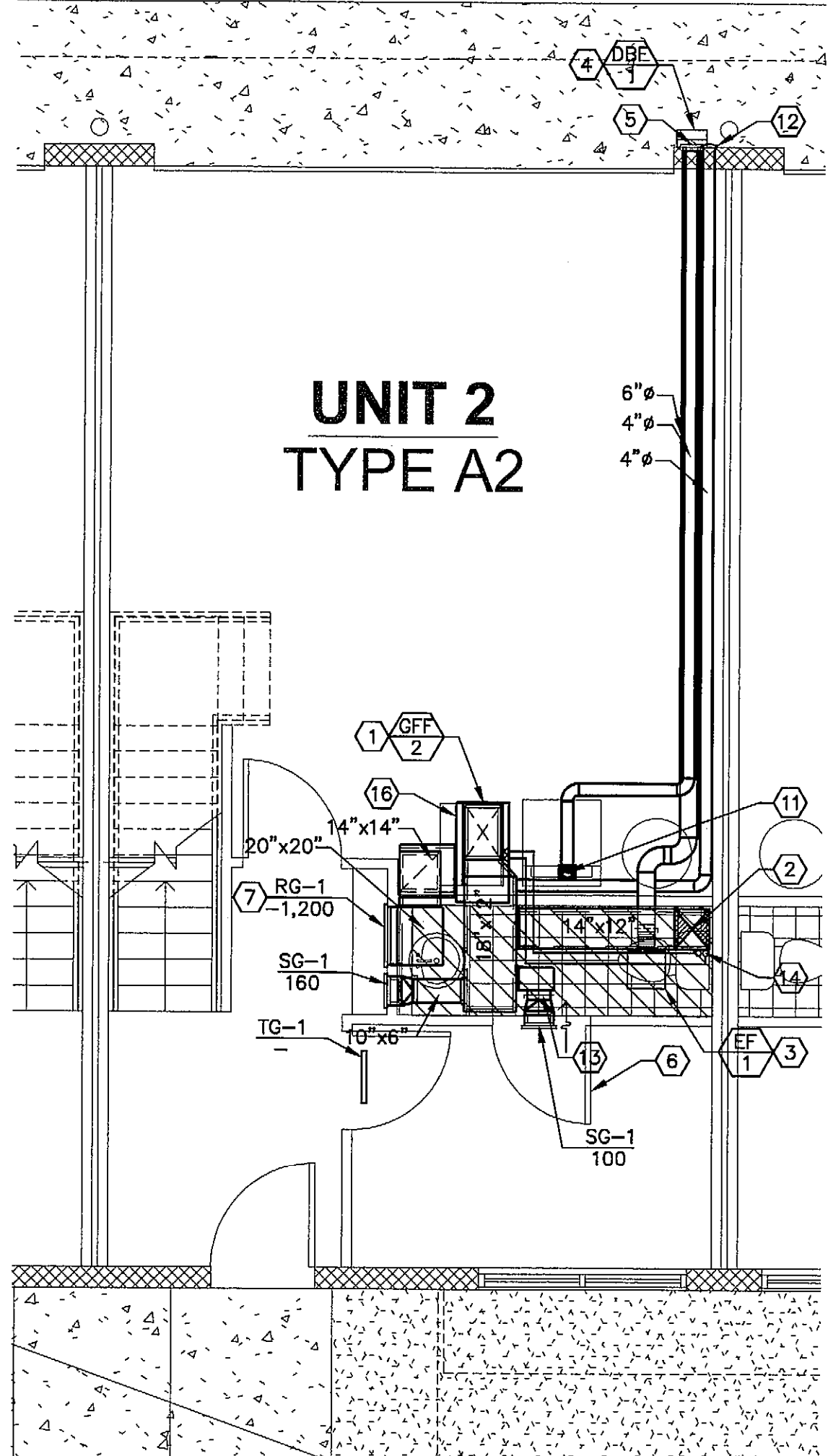


**ACIES ENGINEERING**  
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Sunnyvale, CA 94086  
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tx: (408) 522-5280  
info@acies.net  
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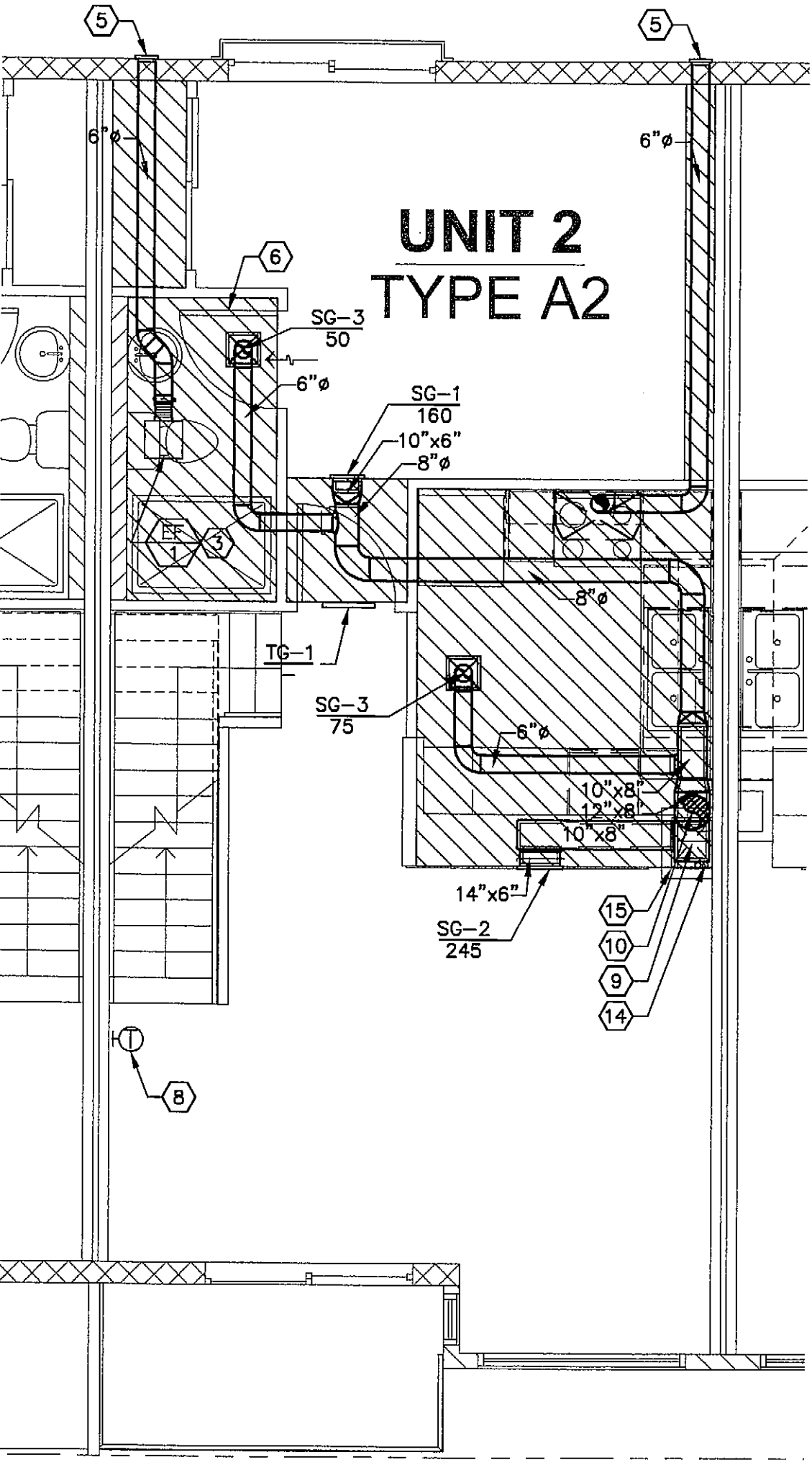
SHEET DESCRIPTION:  
**TYPICAL UNIT  
MECHANICAL GROUND  
& 2ND FLOOR PLAN**

JOB NUMBER:	0714
SCALE:	AS NOTED
DATE:	12/12/13
DRAWN BY:	DS
CHECKED BY:	RT
CAD TITLE:	
SHEET NUMBER:	

**M2.01**  
OF SHEETS



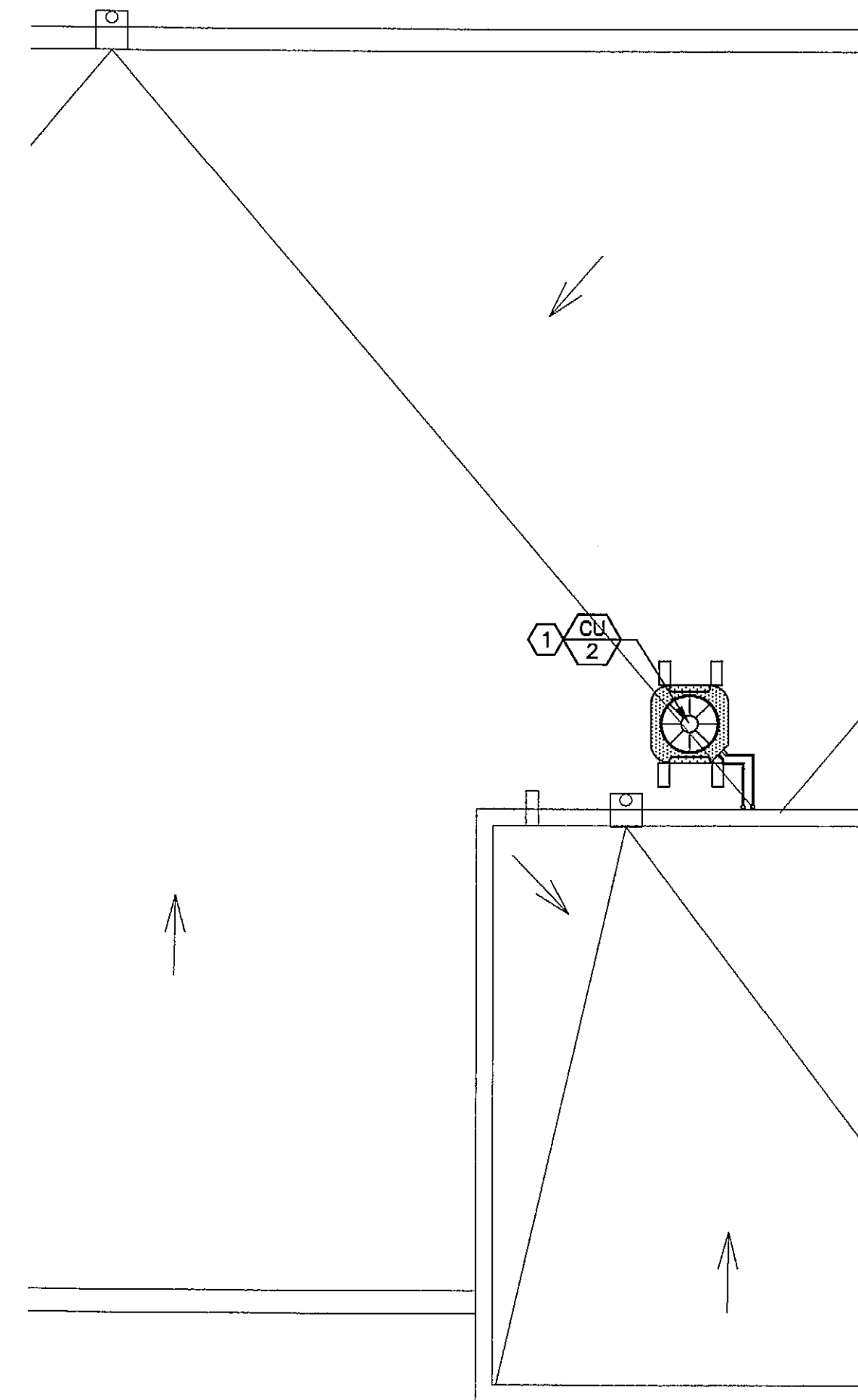
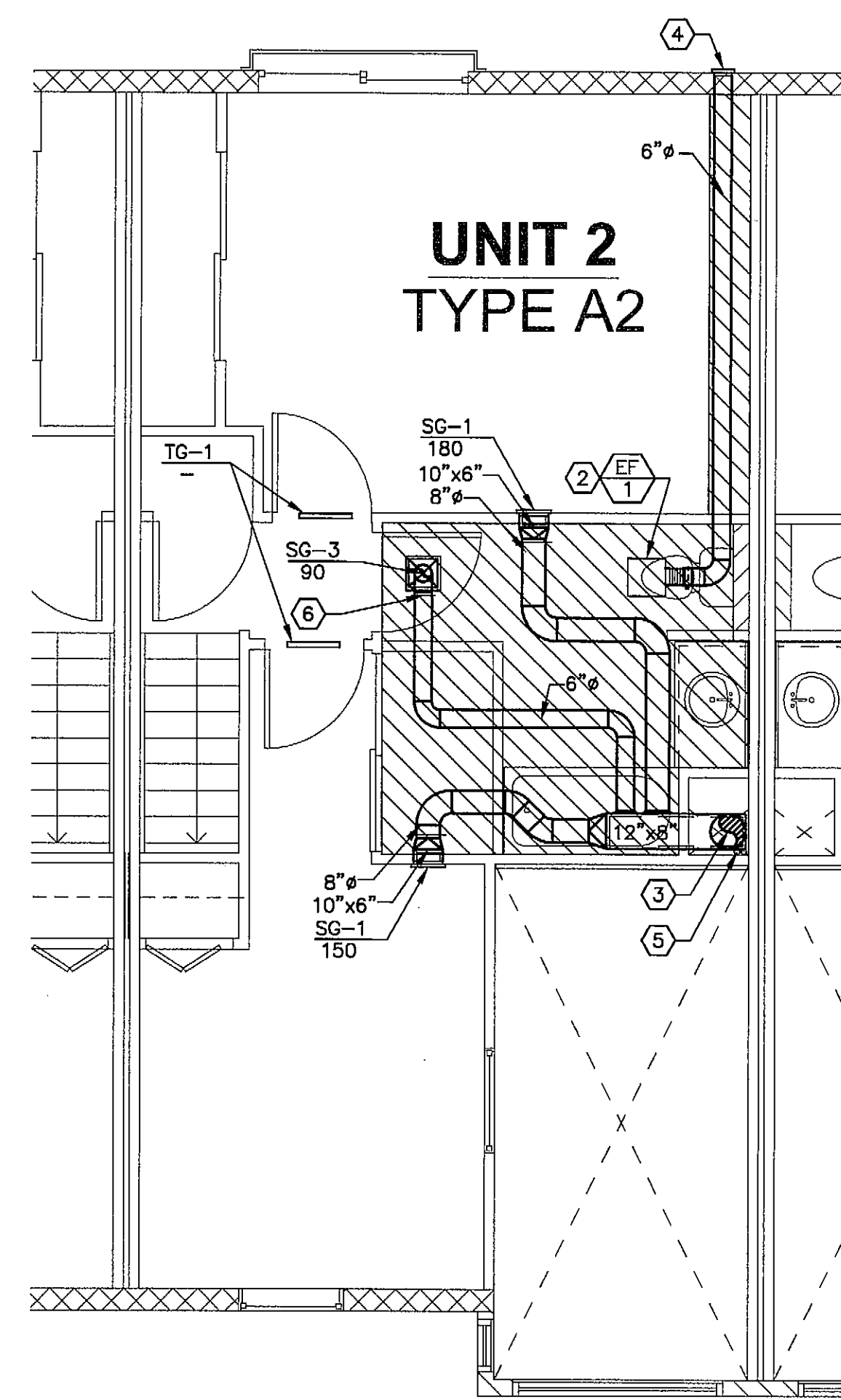
1 UNIT 2 TYPE A2 - MECHANICAL GROUND FLOOR PLAN  
1/4" = 1'-0" TYP. TO UNITS 4&7  
TYP. TO UNITS 1,3&6 BUT OPPOSITE HAND



2 UNIT 2 TYPE A2 - MECHANICAL 2ND FLOOR PLAN  
1/4" = 1'-0" TYP. TO UNITS 4&7  
TYP. TO UNITS 1,3&6 BUT OPPOSITE HAND

3 SHEET KEYNOTES  
N.T.S.

- 1 VERTICALLY MOUNTED, UP FLOW DISCHARGE, MULTIPOISE INDUCED COMBUSTION FURNACE.
- 2 14"x12" SUPPLY AIR DUCT WITH 1" DUCT LINER, UP.
- 3 CEILING MOUNTED TOILET EXHAUST FAN.
- 4 SIDE WALL MOUNTED DRYER BOOSTER FAN. DRYER FAN SHALL BE HARD-WIRED INTERLOCKED WITH DRYER.
- 5 WALL CAP.
- 6 UNDERCUT DOOR, TYP.
- 7 12"x36" RETURN GRILLE WITH WALL MOUNTING APPLICATION AT 12" A.F.F. PROVIDE AT LEAST 38" WIDE FREE WALL AREA FOR MOUNTING THE GRILLE.
- 8 MOUNT THERMOSTAT AT 48" A.F.F.
- 9 14"x12" SUPPLY AIR DUCT WITH 1" DUCT LINER.
- 10 12" SUPPLY AIR DUCT, UP.
- 11 PROVIDE LINT TRAP MODEL DBLT-4 MANUFACTURED BY FANTECH WITH REMOVABLE LINT FILTER. LOCATE LINT TRAP IN GARAGE.
- 12 4" PIPE FLUE VENT. TOTAL EQUIVALENT LENGTH CANNOT EXCEED 100 FEET. ONE ELBOW IS EQUIVALENT TO 5'. PIPE PENETRATION SIDE WALL.
- 13 MANUAL BALANCE DAMPER, TYP.
- 14 GAS AND LIQUID REFRIGERANT PIPES, UP TO CONDENSING UNIT ON THE ROOF.
- 15 PROVIDE 18"x14" MECHANICAL SHAFT.
- 16 RETURN AIR PLENUM (UNDER THE UNIT).



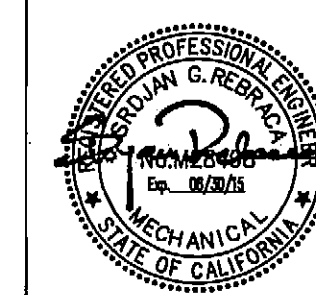
- ① COOLING ONLY CONDENSING UNIT ON THE ROOF.
- ② CEILING MOUNTED TOILET EXHAUST FAN.
- ③ 12" SUPPLY AIR DUCT, DOWN.
- ④ WALL CAP.
- ⑤ GAS AND LIQUID REFRIGERANT PIPES, UP TO CONDENSING UNIT ON THE ROOF.
- ⑥ MANUAL BALANCE DAMPER, TYP.

REVISIONS		ISSUES
NO.	DATE	DESCRIPTION

PROJECT: 12/13/2013 BUILDING PERMIT SET

35th @ School  
Oakland, CA 94619

CONSULTANTS:



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SHEET DESCRIPTION:

**TYPICAL UNIT  
MECHANICAL 3RD  
FLOOR & ROOF PLAN**

JOB NUMBER:	0714
SCALE:	AS NOTED
DATE:	12/12/13
DRAWN BY:	DS
CHECKED BY:	RT
CAD TITLE:	
SHEET NUMBER:	

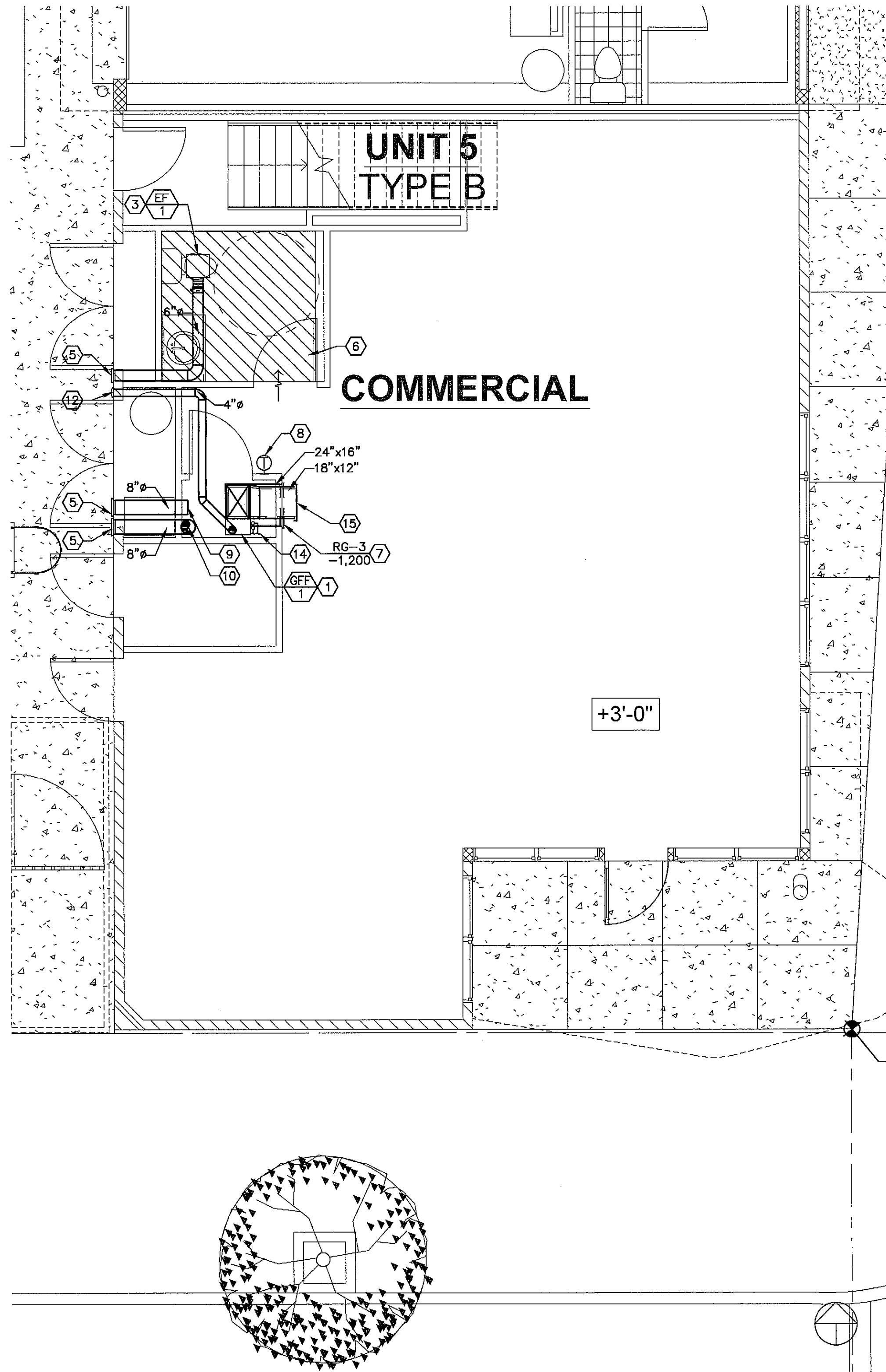
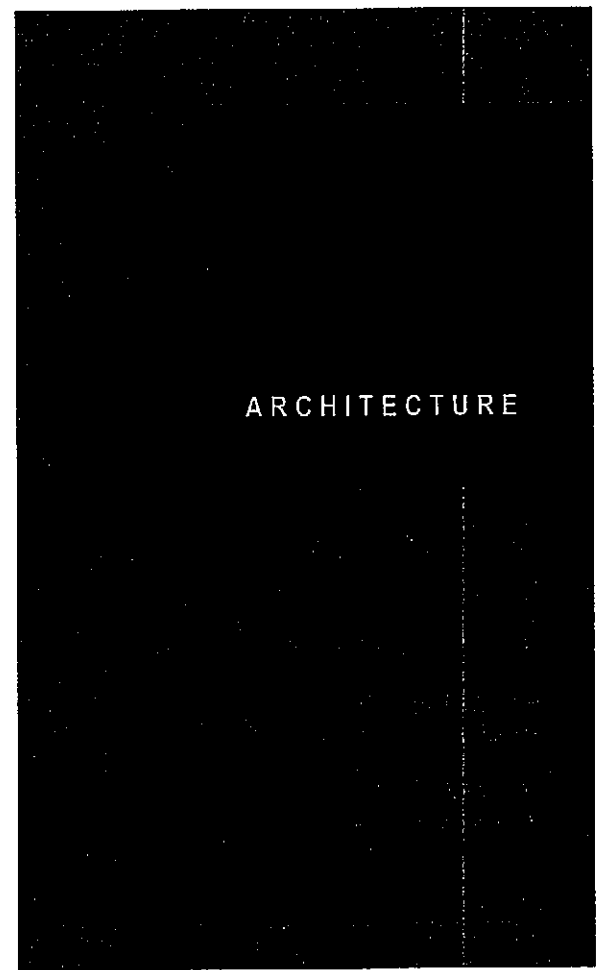
**M2.02**

OF SHEETS

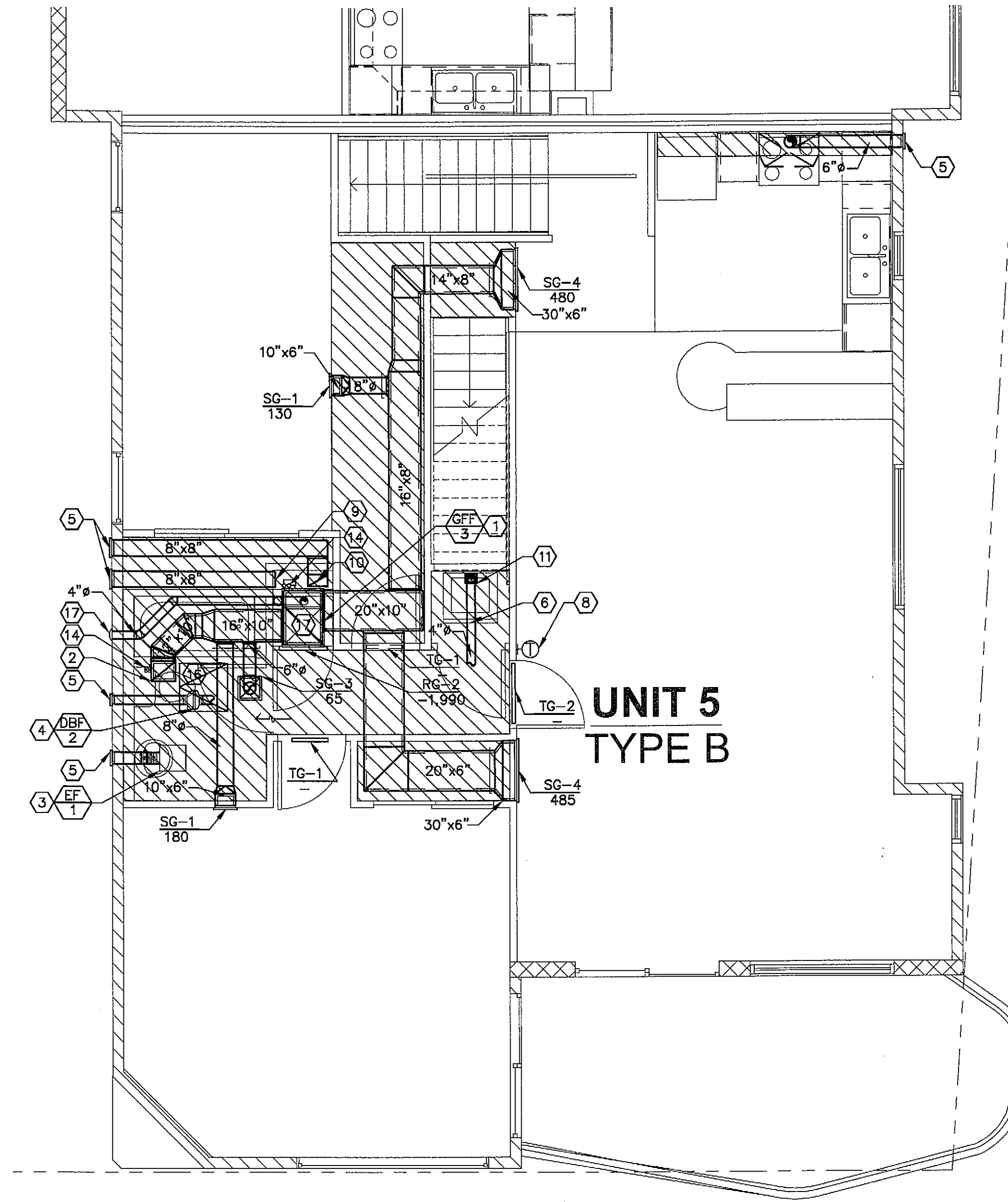
① UNIT 2 TYPE A2 - MECHANICAL 3RD FLOOR PLAN  
1/4" = 1'-0" TYP. TO UNITS 4&7  
TYP. TO UNITS 1,3&6 BUT OPPOSITE HAND

② UNIT 2 TYPE A2 - MECHANICAL ROOF PLAN  
1/4" = 1'-0" TYP. TO UNITS 4&7  
TYP. TO UNITS 1,3&6 BUT OPPOSITE HAND

③ SHEET KEYNOTES  
N.T.S.



1 COMMERCIAL UNIT - MECHANICAL GROUND FLOOR PLAN  
1/4" = 1'-0"



2 UNIT 5 TYPE B - MECHANICAL 2ND FLOOR PLAN  
1/4" = 1'-0"

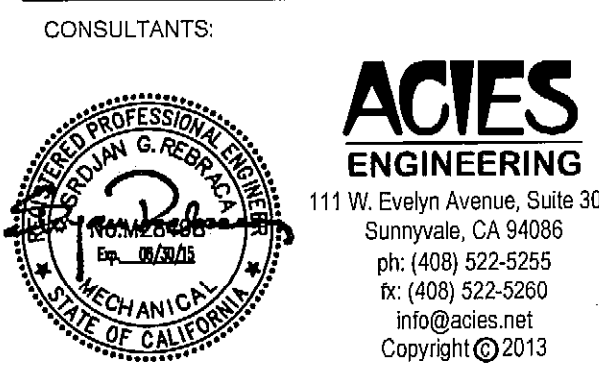
- 1 VERTICALLY MOUNTED, UP FLOW DISCHARGE, MULTIPOISE INDUCED COMBUSTION FURNACE.
- 2 12"x10" SUPPLY AIR DUCT WITH 1" DUCT LINER, UP.
- 3 CEILING MOUNTED TOILET EXHAUST FAN.
- 4 CEILING MOUNTED IN-LINE DRYER BOOSTER FAN. DRYER FAN SHALL BE HARD-WIRED INTERLOCKED WITH DRYER.
- 5 WALL CAP.
- 6 UNDERCUT DOOR, TYP.
- 7 36"x12" RETURN GRILLE WITH WALL MOUNTING APPLICATION AT 12" A.F.F.
- 8 MOUNT THERMOSTAT AT 48" A.F.F.
- 9 PERMANENT 8"x8" OPENING COMMENCING 12" UNDER CEILING. PROVIDE MESH SCREEN.
- 10 PERMANENT 10"x6" OPENING COMMENCING 12" A.F.F. PROVIDE MESH SCREEN.
- 11 PROVIDE LINT TRAP MODEL DBLT-4 MANUFACTURED BY FANTECH WITH REMOVABLE LINT FILTER. LOCATE LINT TRAP IN GARAGE.
- 12 4" PIPE FLUE VENT. TOTAL EQUIVALENT LENGTH CANNOT EXCEED 100 FEET. ONE ELBOW IS EQUIVALENT TO 5' PIPE PENETRATION SIDE WALL.
- 13 MANUAL BALANCE DAMPER, TYP.
- 14 GAS AND LIQUID REFRIGERANT PIPES, UP TO CONDENSING UNIT ON THE ROOF.
- 15 CAP SUPPLY DUCT FOR FUTURE TENANT USE.
- 16 24"x24" CEILING ACCESS PANEL.
- 17 20"x16" SUPPLY AIR PLENUM WITH 1" DUCT LINER.

3 SHEET KEYNOTES  
N.T.S.

REVISIONS: <input type="checkbox"/>		ISSUES: <input type="checkbox"/>
NO.	DATE	DESCRIPTION

PROJECT: 12/13/2013 BUILDING PERMIT SET

35th @ School  
Oakland, CA 94619



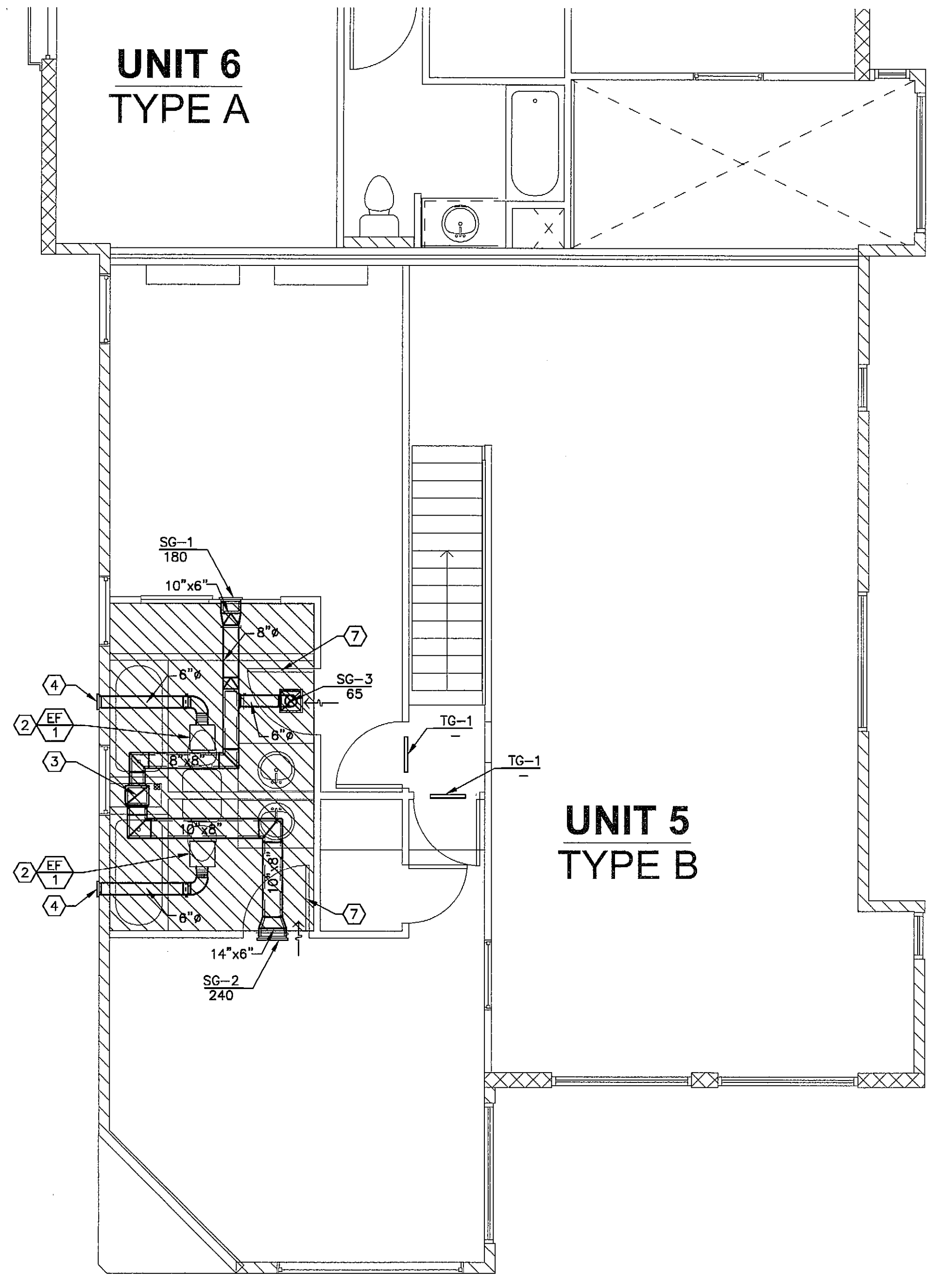
SHEET DESCRIPTION:  
COMMERCIAL UNIT  
GROUND & UNIT 5  
TYPE B MECHANICAL  
2ND FLOOR PLAN

JOB NUMBER:	0714
SCALE:	AS NOTED
DATE:	12/12/13
DRAWN BY:	DS
CHECKED BY:	RT
CAD TITLE:	
SHEET NUMBER:	

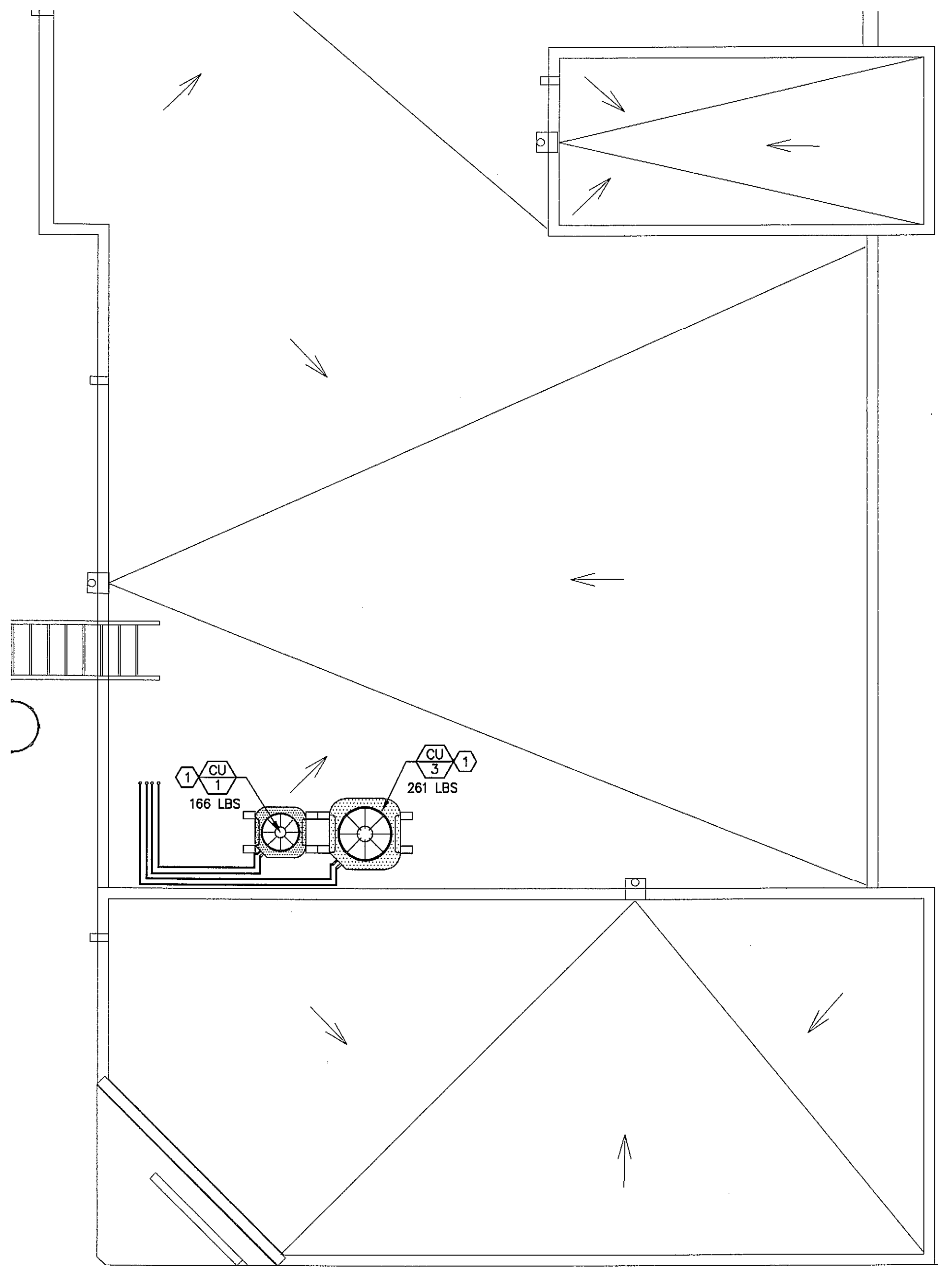
M2.03

OF SHEETS





1 UNIT 5 TYPE B - MECHANICAL 3RD FLOOR PLAN  
1/4" = 1'-0"



2 UNIT 5 TYPE B - MECHANICAL ROOF PLAN  
1/4" = 1'-0"

- ① COOLING ONLY CONDENSING UNIT ON THE ROOF.
- ② CEILING MOUNTED TOILET EXHAUST FAN.
- ③ 12"x10" SUPPLY AIR DUCT, DOWN.
- ④ WALL CAP.
- ⑤ GAS AND LIQUID REFRIGERANT PIPES, UP TO CONDENSING UNIT ON THE ROOF.
- ⑥ MANUAL BALANCE DAMPER, TYP.
- ⑦ UNDERCUT DOOR, TYP.


3 SHEET KEYNOTES  
N.T.S.

REVISIONS:  ISSUES:

NO.	DATE	DESCRIPTION

PROJECT: 35th @ School  
Oakland, CA 94619

CONSULTANTS:



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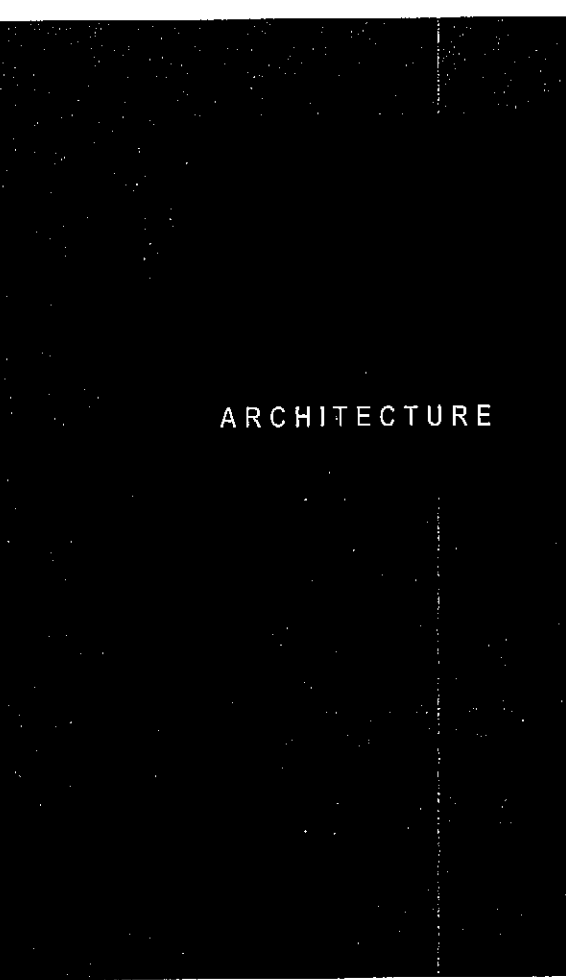
SHEET DESCRIPTION:  
UNIT 5 TYPE B  
MECHANICAL 3RD  
FLOOR & ROOF PLAN

JOB NUMBER: 0714  
SCALE: AS NOTED  
DATE: 12/12/13  
DRAWN BY: DS  
CHECKED BY: RT  
CAD TITLE:  
SHEET NUMBER:

M2.04  
OF SHEETS



	<p>NOTE: CONTRACTOR TO SET THE FAN TO SWITCH OFF WITH 10 SECONDS DELAY.</p>	<p>SYMBOL</p> <p>ABBREVIATION</p>	<p>DESCRIPTION</p> <ul style="list-style-type: none"> <li>DI DIGITAL INPUT</li> <li>DO DIGITAL OUTPUT</li> <li>AI ANALOG INPUT</li> <li>AO ANALOG OUTPUT</li> <li>DDC DIRECT DIGITAL CONTROL</li> <li>LAN LOCAL AREA NETWORK</li> <li>I/O INPUT/OUTPUT</li> <li>BMS BUILDING MANAGEMENT SYSTEM</li> <li>EMS ENERGY MANAGEMENT SYSTEM</li> <li>POWER WIRING BY ELECTRICAL CONTRACTOR</li> <li>LOW VOLTAGE BY TEMPERATURE CONTROL/BMS CONTRACTOR</li> <li>DATA LINE BY TEMPERATURE CONTROL/BMS CONTRACTOR</li> <li>FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR</li> <li>FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR</li> <li>FURNISHED AND INSTALLED BY TEMPERATURE CONTROL/BMS CONTRACTOR</li> </ul>	<p>THIS DRAWING IS FOR COORDINATION ONLY. TEMPERATURE CONTROL/BMS CONTRACTOR IS FULLY RESPONSIBLE FOR THE COMPLETE HVAC CONTROL DDC SYSTEM AND BMS NETWORK OPERATION, AND SHOULD INCLUDE IN HIS BID ALL NECESSARY ITEMS.</p> <p>TEMPERATURE CONTROL/EMS CONTRACTOR TO VERIFY CONTROL AND WIRING DIAGRAMS WITH ACTUAL MANUFACTURERS CONTROL DIAGRAMS.</p> <p>MECHANICAL CONTRACTOR TO PROVIDE DETAILED WIRING DIAGRAMS OF ALL HVAC EQUIPMENT FOR REVIEW AND COORDINATION WITH ELECTRICAL AND TEMPERATURE CONTROL/EMS CONTRACTOR.</p> <p>THE FINAL CONNECTION AND SUPERVISION OF ALL CONTROL WIRING AND INTERLOCK WIRING SHALL BE THE RESPONSIBILITY OF TEMPERATURE CONTROL/BMS CONTRACTOR.</p> <p>THERMOSTAT LOCATIONS TO BE APPROVED BY OWNER AND COORDINATED WITH FURNITURE LAYOUT.</p>
<p>DRYER BOOSTER EXHAUST FAN CONTROLS</p> <p>NTS 4</p>	<p>EXHAUST FAN CONTROLS</p> <p>NTS 3</p>	<p>LEGEND</p> <p>NTS 2</p>	<p>NOTES</p> <p>NTS 1</p>	
<p>NOT USED</p> <p>NTS 8</p>	<p>NOT USED</p> <p>NTS 7</p>	<p>NOT USED</p> <p>NTS 6</p>	<p>NOT USED</p> <p>NTS 5</p>	
<p>NOT USED</p> <p>NTS 12</p>	<p>NOT USED</p> <p>NTS 11</p>	<p>NOT USED</p> <p>NTS 10</p>	<p>NOT USED</p> <p>NTS 9</p>	



REVISIONS:		ISSUES:	
NO.	DATE	DESCRIPTION	

12/13/2013 BUILDING PERMIT SET

PROJECT:

35th @ School  
Oakland, CA 94619

CONSULTANTS:

**ACIES ENGINEERING**  
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Sunnyvale, CA 94086  
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fx: (408) 522-5250  
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SHEET DESCRIPTION:  
**MECHANICAL CONTROLS**

JOB NUMBER: 0714  
SCALE: N.T.S.  
DATE: 12/12/13  
DRAWN BY: DS  
CHECKED BY: RT  
CAD TITLE:  
SHEET NUMBER:

**M9.01**  
OF SHEETS





TITLE 24 FORMS

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

PROJECT NAME: 35TH @ SCHOOL DATE: 12/12/13  
 PROJECT ADDRESS: 35TH STREET OAKLAND, CA 94619 Climate Zone: 3 Building CFA: 11,990

**General Information**

Building Type:  Nonresidential  High-Rise Residential  Hotel/Motel  
 Schools  Rebuildable 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: TOMBI LAY GAJIC Signature: \_\_\_\_\_  
 Company: Acies Engineering Date: 12/12/13  
 Address: 111 West Evelyn Ave., Suite 301 Phone: (408) 522-5255  
 City/State/Zip: Sunnyvale, CA 94086 Phone: (408) 522-5255

**Principal Lighting Designer's Declaration Statement**

I am eligible under Division 3 of the California Business and Professional 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, Part 2, and 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: TOMBI LAY GAJIC Signature: \_\_\_\_\_  
 Company: Acies Engineering Phone: (408) 522-5255  
 Address: 111 West Evelyn Ave., Suite 301 Phone: (408) 522-5255  
 City/State/Zip: Sunnyvale, CA 94086 Date: 12/12/13

**Lighting Mandatory Measures**

Indicate location on building plans of Mandatory Measure Note Block: THIS SHEET

**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, Page 1 through 4 Certificate of Compliance All pages required on plans for all submittals.

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

**INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST (Page 2 of 4) LTG-1C**

PROJECT NAME: 35TH @ SCHOOL DATE: 12/12/13

Installation Certificate, LTG-4-INST (Retain a copy and verify form is completed and signed) Field Inspector:

Certificate of Acceptance, LTG-2A and LTG-3A (Retain a copy and verify form is completed and signed) Field Inspector:

A separate Lighting Schedule shall be filled out for Conditioned and Unconditioned Spaces Installed Lighting Power load on this Lighting Schedule is only for:

CONDITIONED SPACES  UNCONDITIONED SPACES

The actual indoor lighting power listed below includes all installed permanent and portable lighting systems in accordance with 16062.

Only for offices: Up to the first 0.2 watt per square foot of portable lighting shall not be required to be included in the calculation of indoor lighting power density in accordance with the Exception to 16104. All portable lighting in excess of 0.2 watt per square foot is included below.

**Luminaire Schedule (Type, Lamp, Ballast)**

A	B	C	D	E	F	G
Name or Item	Complete Luminaire Description (i.e. 3 lamp fluorescent troffer, F12R, one dimmable electronic ballast)	Watts per Luminaire*	CCC Default from NEC (610.6)	According to 16136 (610.6)	Number of Luminaires	Installed Watts (W)
L1	(1) 2XV COMPACT FLUORESCENT LIGHT	27	0	0	1	27
L2	(1) 17W 2' FLUORESCENT LIGHT	24	0	0	1	24
L4	(1) 11W 2'X4' FLUORESCENT LIGHT	88	0	0	10	880
L6	(1) 11W FLUORESCENT LIGHT	33	0	0	1	33
L7	(1) 17W 2'X4' FLUORESCENT LIGHT	62	0	0	1	62

Building total number of pages: 1 INSTALLED WATTS PAGE TOTAL: 1026

Field Inspector's Notes or Discrepancies:

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

PROJECT NAME: 35TH @ SCHOOL DATE: 12/12/13

**INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST**

Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylight areas > 210 ft<sup>2</sup> automatic daylighting controls for daylight areas > 2,500 ft<sup>2</sup>, 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 > 50,000 ft<sup>2</sup>, in accordance with Section 131.

**MANDATORY LIGHTING CONTROLS - FIELD INSPECTION ENERGY CHECKLIST**

Type / Description	Number of Units	Location in Building	Pass	Fail
LIGHTING CONTROLLER	LC	ELECTRICAL ROOM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
OCCUPANCY SENSOR	OS	VARIOUS SEE PLAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MANUAL SWITCHES	SS	VARIOUS SEE PLAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Field Inspector's Notes or Discrepancies:

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

PROJECT NAME: 35TH @ SCHOOL DATE: 12/12/13

**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 Unconditioned LTG-1C Page 2): 1026 Watts	Installed Lighting (from Unconditioned LTG-1C Page 2): 0 Watts
Lighting Control Credit Conditioned Spaces (from LTG-2C): 11.2	Lighting Control Credit Unconditioned Spaces (from LTG-2C): 0
Adjusted Installed Lighting Power = 1014.8	Adjusted Installed Lighting Power = 0

Complies if Installed < Allowed:  Allowed Lighting Power Conditioned Spaces (from LTG-3C): 1019 Unconditioned Spaces (from LTG-3C): 0

**Approved 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 and LTG-3A. The designer is required to check the acceptance was met for all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. Fill in the lighting system or control of the control system is not, in the design lighting and the number of systems. The 1037 Section in the Appendix of the Nonresidential Reference Appendix 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 controls.

**Enforcement Agency:**

System Acceptance: Before Occupancy Form is provided for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements.

The LTG-2A and LTG-3A forms is not considered a complete form and are not to be accepted by the enforcement agency unless the boxes are checked minor filed and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that complete plans, specifications, installation worksheets, and operating and maintenance information meet the requirements of 16104-0 of Title 24 Part 4. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the LTG-2A and LTG-3A for each different lighting luminaire controls must be provided to the owner of the building for their records.

Luminaire Controls	Number of Controls	Location	Controls and Sensors and Automatic Daylighting Controls Acceptance
Lighting Controller	1	OFFICE CORRIDOR	<input checked="" type="checkbox"/>

**LIGHTING CONTROLS CREDIT WORKSHEET (Page 1 of 2) LTG-2C**

PROJECT NAME: 35TH @ SCHOOL DATE: 12/12/13

**POWER ADJUSTMENT FACTORS (PAF) FOR NON-DAYLIGHT CONTROLS**

A Separate PAF Worksheet Must Be Filled Out for Conditioned and Unconditioned Spaces. Control Credits listed on this worksheet are only for:

CONDITIONED SPACES  UNCONDITIONED SPACES

A	B	C	D	E	F	G
Room # Zone ID Area	Lighting Control Description*	Plan Reference	Room Area (Sq Ft)	Watts of Control Lighting	Power Adjustment Factor	Control Credit Watts (E x F)
TOILET	OCCUPANCY	E2.1	50	56	0.2	11.2
PAGE TOTAL: 11.2						

Note: Conditioned and Unconditioned Spaces shall be Separately Total

Building total of non-daylight control credit watts for all pages of LTG-2C Page 1 of 2: 11.2

Enter building total for all daylight controls credit watts from LTG-2C Page 2 of 2: 0

BUILDING TOTAL OF ALL CONTROL CREDIT WATTS (FOR BOTH NON-DAYLIGHT AND DAYLIGHT CONTROL CREDITS): 11.2

Enter in LTG-1C Page 4 Lighting Control Credit as appropriate for CONDITIONED or UNCONDITIONED Spaces: 11.2

1. Description shall be consistent with Type of Control defined in Table 146-C  
2. Power Adjustment Factor taken from Table 146-C

**INDOOR LIGHTING POWER ALLOWANCE (Page 1 of 2) LTG-3C**

PROJECT NAME: 35TH @ SCHOOL DATE: 12/12/13

ALLOWED LIGHTING POWER (Choose One Method)

A Separate LTG-3C must be filled out for Conditioned and Unconditioned Spaces. Indoor Lighting Power Allowance listed on this page are only for:  CONDITIONED spaces  UNCONDITIONED spaces

**COMPLETE BUILDING METHOD**

BUILDING CATEGORY (From § 146 Table 146-B)	WATTS PER (WP) X	COMPLEX BLDG. AREA	ALLOWED WATTS
OFFICES (COMMERCIAL SPACES)	0.9	1000	900
RESTROOMS (COMMERCIAL SPACES)	0.6	50	30
UTILITY ROOMS	0.7	75	52.5
TOTALS			1026

**AREA CATEGORY METHOD - Part A**

AREA CATEGORY (From § 146 Table 146-F)	WATTS PER (WP) X	AREA (Sq Ft)	ALLOWED WATTS
OFFICES (COMMERCIAL SPACES)	0.9	1000	900
RESTROOMS (COMMERCIAL SPACES)	0.6	50	30
UTILITY ROOMS	0.7	75	52.5
TOTALS			1026

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

A	B	C	D	E	F	G
Primary Function	Sq Ft	Additional Watts Per Sq Ft Allowed	Wattage Allowance (Px C)	Description(s) and Quantity of Special Luminaires * Types in each Primary Function Area	Total Design Watts	Final Watts Smaller of D or F
TOTALS - Enter into Area Category Method - Part A (table above)						

\* Additional watts available only when allowed according to the footnotes on the bottom of Table 146-F for chandelier or sconce, art, craft, assembly or manufacturing specialized task work, precision commercial/industrial work, or lab specialized task work.  
 † Special luminaires are light fixtures described in the Table 146-F Footnotes that are subject to an additional wattage allowance.

**TAILORED METHOD**

Total Allowed Watts using the Tailored Method shown from LTG-3C Page 1 of 2 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.

1. Additional watts available only when allowed according to the footnotes on the bottom of Table 146-F for chandelier or sconce, art, craft, assembly or manufacturing specialized task work, precision commercial/industrial work, or lab specialized task work.  
2. Power Adjustment Factor taken from Table 146-C

**INDOOR LIGHTING MANDATORY MEASURES (Page 1 of 1) LTG-MM**

PROJECT NAME: 35TH @ SCHOOL DATE: 12/12/13

**LIGHTING CONTROLS AND EQUIPMENT**

All lighting controls and equipment shall be installed in accordance with manufacturer's instructions.

**INDIVIDUAL ROOM/ AREA CONTROLS:**

Each room and area enclosed by ceiling-height partitions is equipped with a separate switch or control device.

**UNIFORM REDUCTION FOR INDIVIDUAL ROOMS:**

All rooms and enclosed areas greater than 100 square feet and more than 0.8 watts per square foot of lighting load are multi-level controlled with switches and/or dimmers for uniform reduction of lighting within the room.

Exceptions: 1. For lights in corridors  
2. Spaces having only one luminaire with no more than 2 lamps

**DAYLIGHT AREA CONTROL:**

All rooms and enclosed spaces with combined window and skylight areas that are greater than 250 square feet shall have 50 percent of the lighting power in each daylight area controlled separately from other lighting in the enclosed space and separate lighting controls to control lights in windows independent from lights under skylights.

**BUILDING LIGHTING SHUT-OFF:**

The building lighting shut-off consists of automatic time switch or occupancy sensor with manual override switches.

Exceptions: 1. Lighting that must be continuously lit  
2. Lighting in corridors, guestrooms, dwelling units of high-rise residential buildings and hotels/motels, and parking garages  
3. Up to 0.3 watts per square foot of lighting for building security or emergency egress purposes

**DISPLAY LIGHTING CONTROL:**

A separate switch shall be used to control lighting for floor and wall display, window display, and case display.

**DEMAND RESPONSIVE LIGHTING CONTROLS:**

Demand responsive automatic lighting controls that uniformly reduce lighting power consumption by a minimum of 15 percent shall be installed in retail buildings with sales for areas greater than 50,000 square feet.

**FLUORESCENT BALLAST AND LUMINAIRE CERTIFIED:**

All fluorescent light fixtures subject to the certification and specified for the project are certified.

**TANDEN WIRING FOR TWO-LAMP BALLASTS:**

Tandem wiring for two lamp ballast is used whenever possible.

**LIGHTING EQUIPMENT CERTIFICATION:**

All lighting control devices, ballasts and luminaires specified are certified by the manufacturer.



REVISIONS:  ISSUES:

NO.	DATE	DESCRIPTION
1	12/15/2013	BUILDING PERMIT SET

35th @ School Oakland, CA 94619

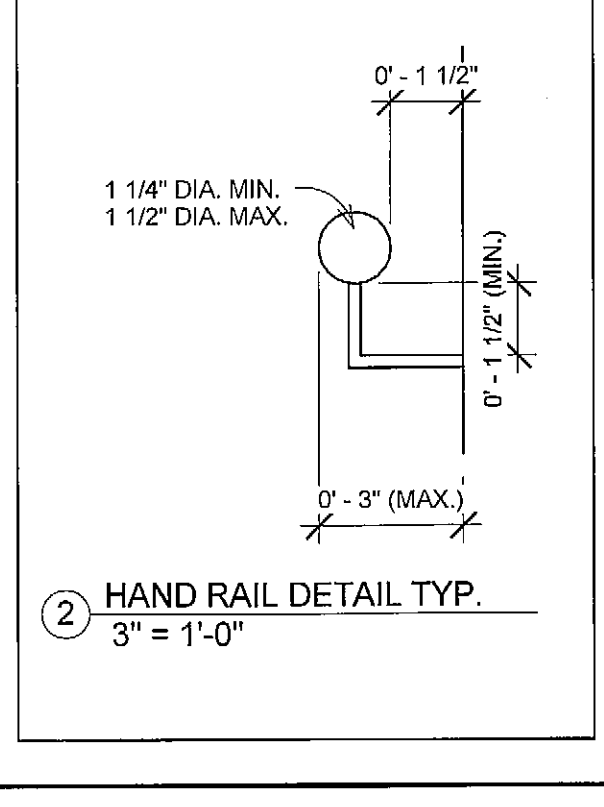
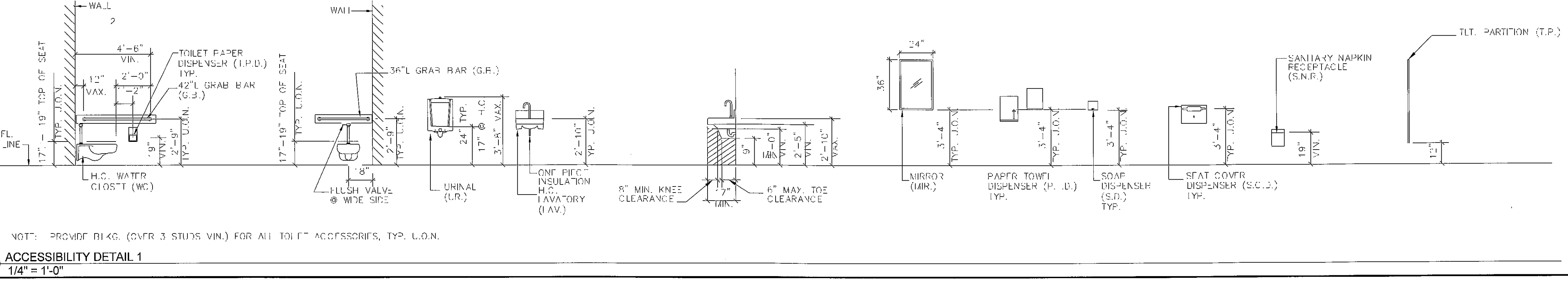
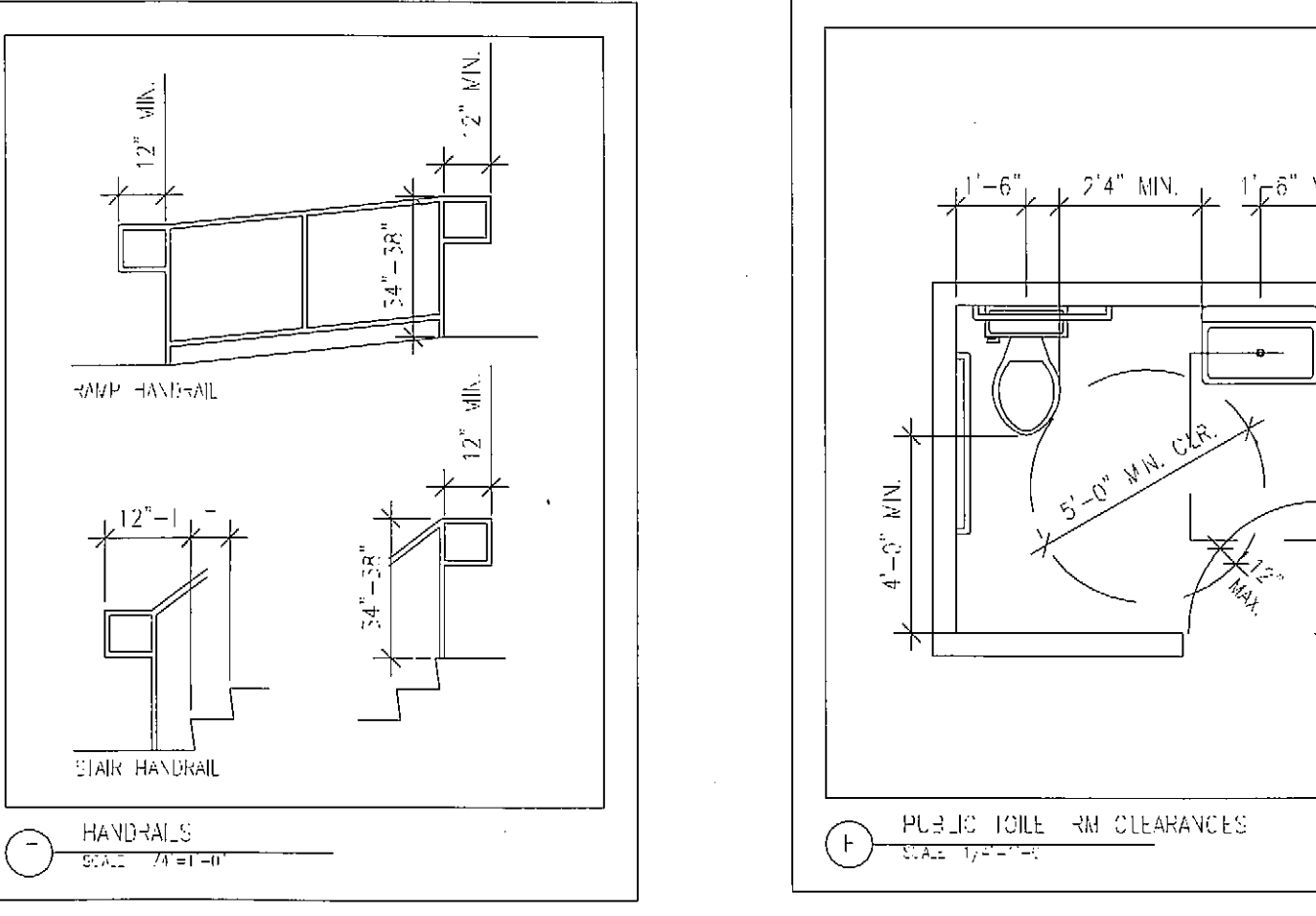
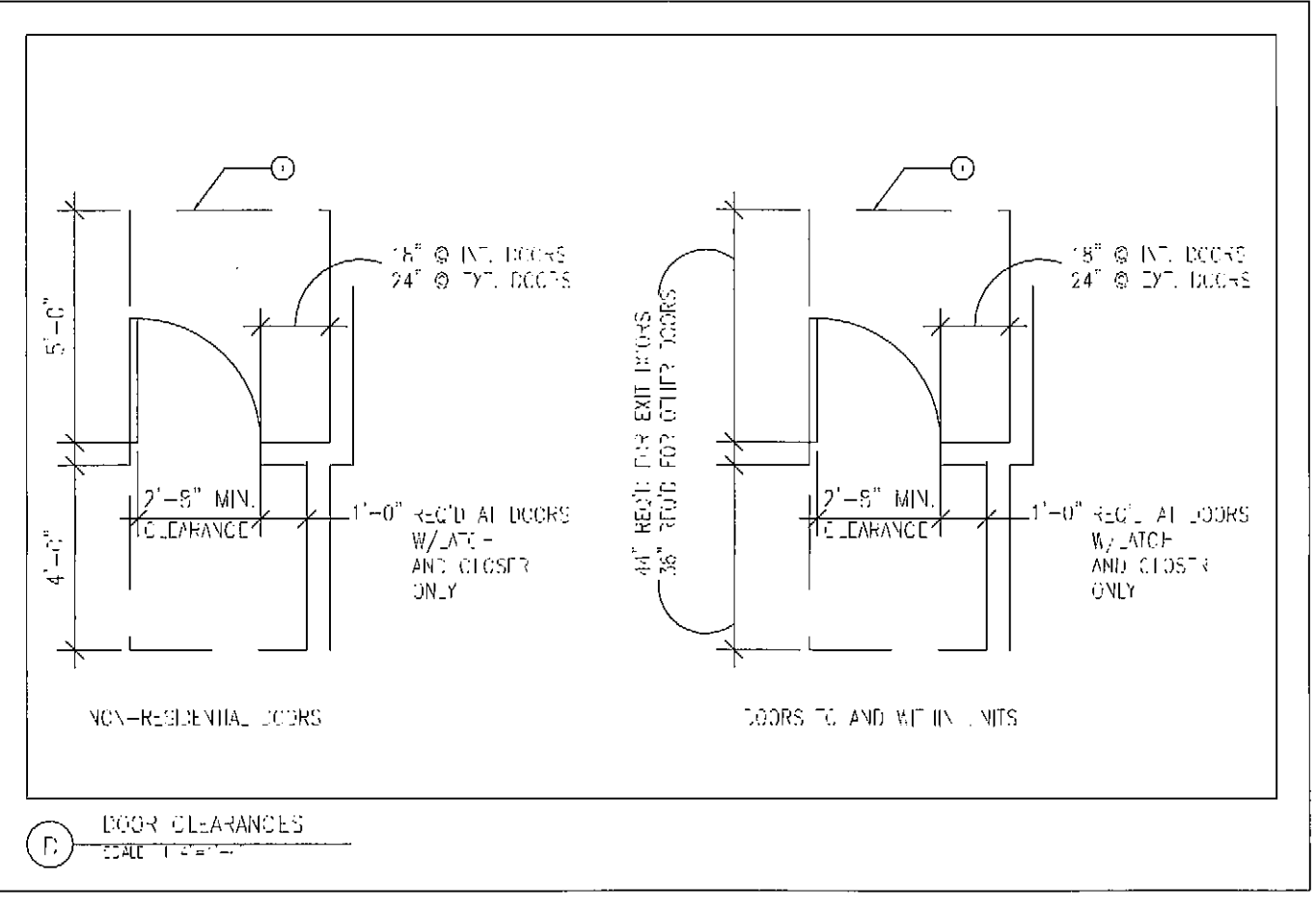
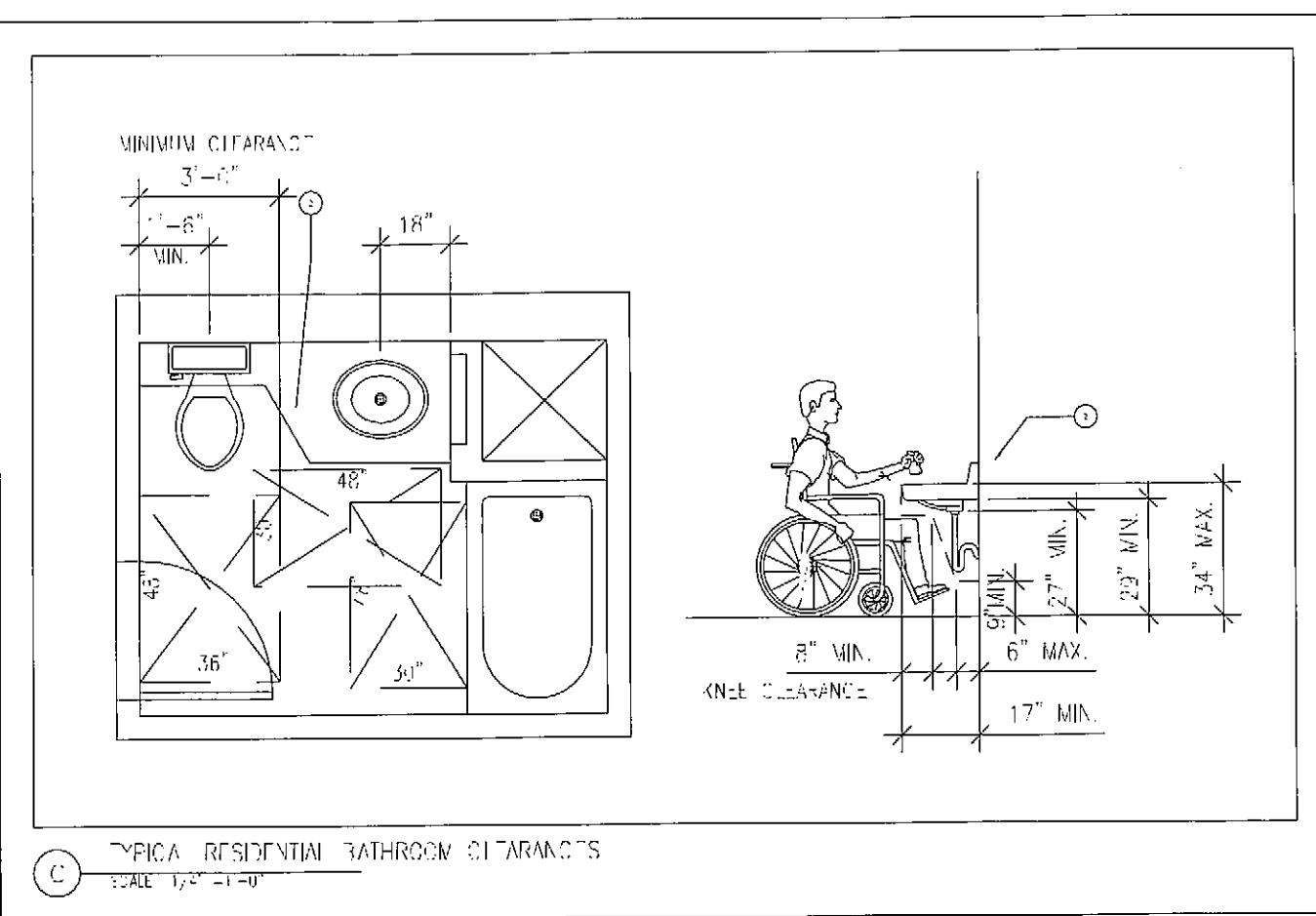
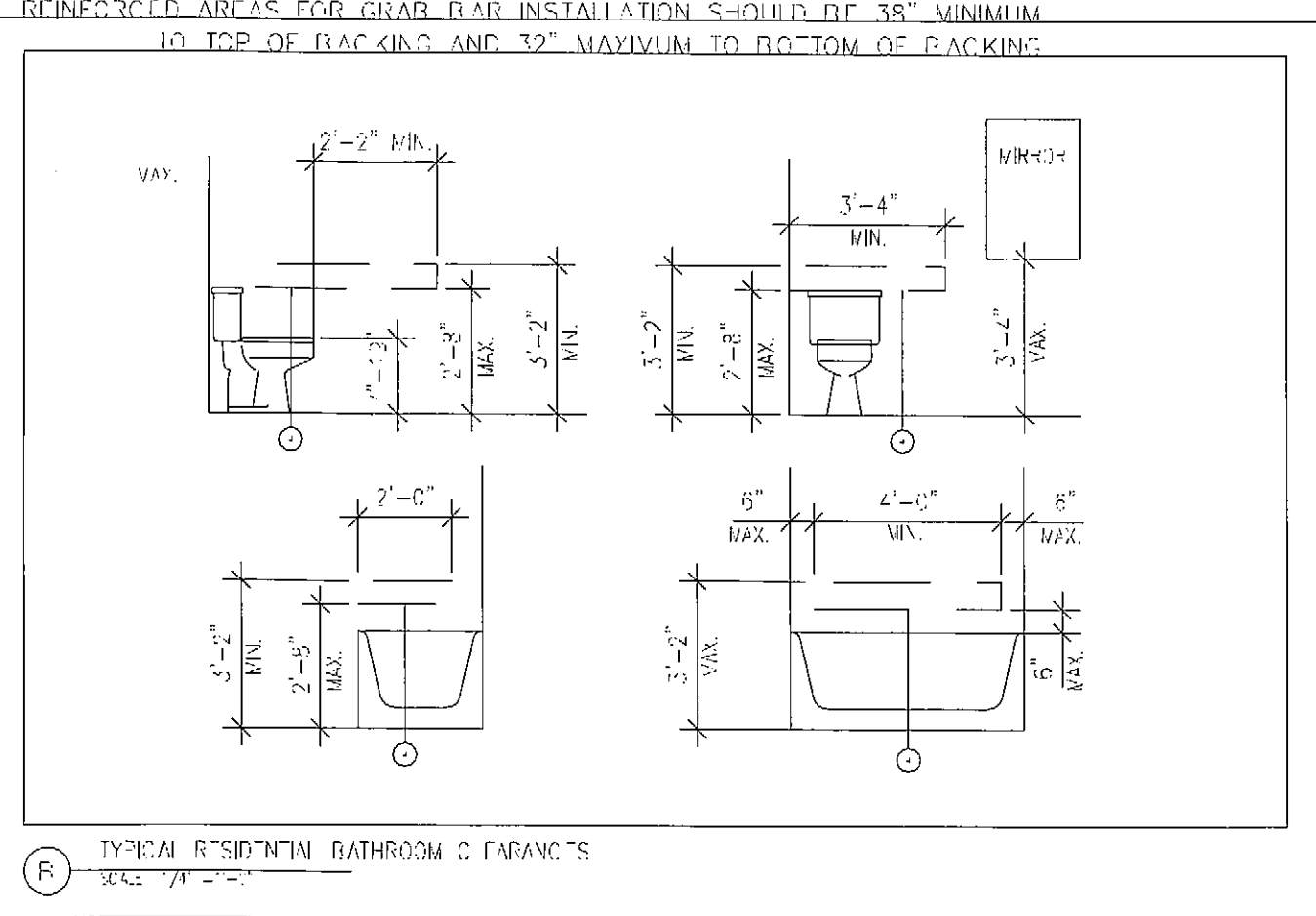
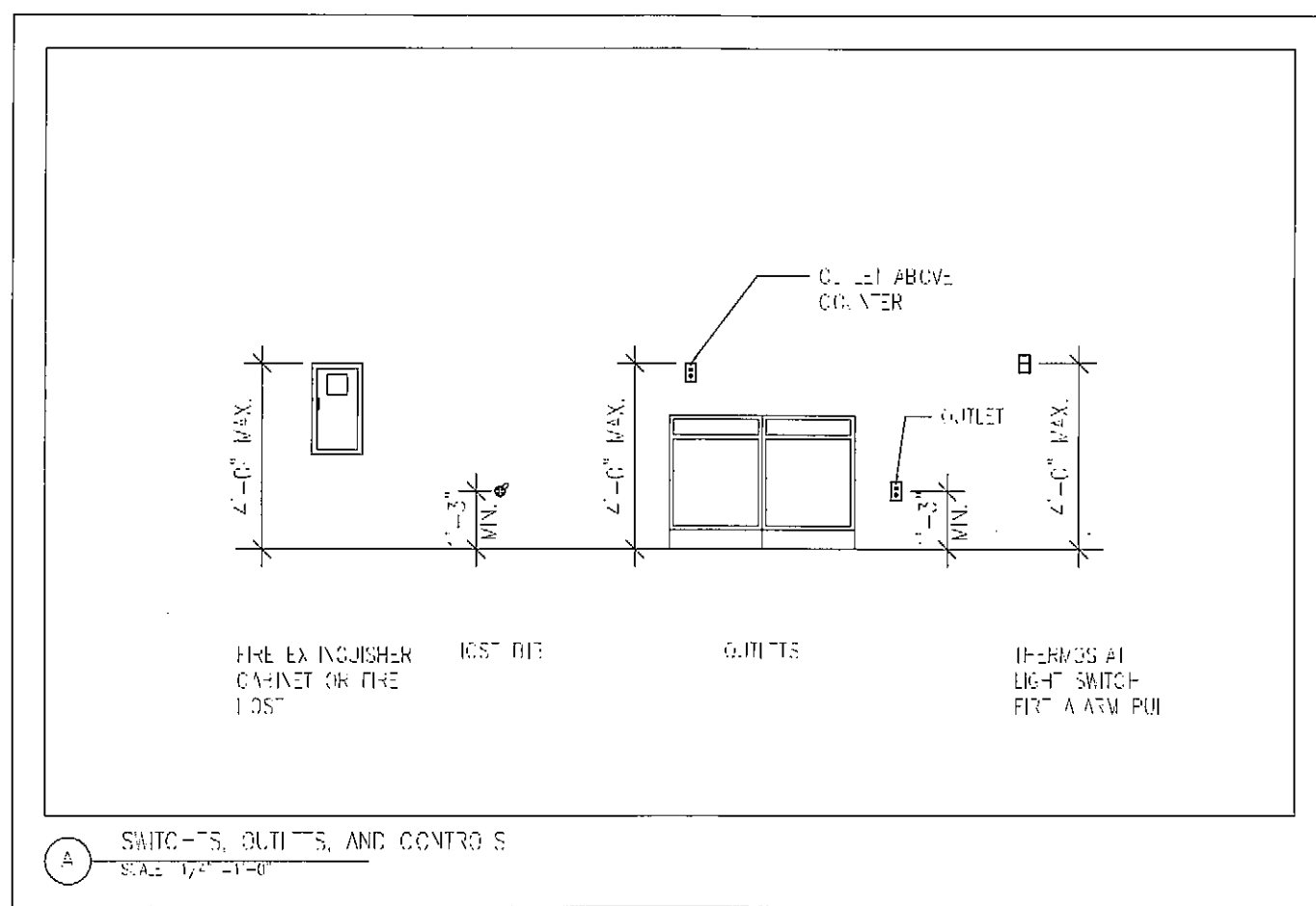


SHEET DESCRIPTION: TITLE 24

JOB NUMBER: 0714  
SCALE:  
DATE: 12/12/13  
DRAWN BY: RP  
CHECKED BY: JS  
CAD TITLE:  
SHEET NUMBER:

E0.03





**I. COMPLIANCE REQUIREMENTS PER SECTION 1102(A) MULTI STORY DWELLINGS**

AT LEAST TEN PERCENT BUT NOT LESS THAN ONE OF THE MULTI STORY DWELLINGS IN APARTMENT BUILDINGS WITH THREE OR MORE DWELLING UNITS AND/OR COMPOUNDS WITH FOUR OR MORE DWELLING UNITS SHALL COMPLY WITH THE FOLLOWING:

1. THE PRIMARY ENTRY TO THIS DWELLING UNIT SHALL BE ON AN ACCESSIBLE ROUTE UNLESS EXEMPTED BY SITE IMPRACTICABILITY TESTS IN SECTION 1155A.
2. AT LEAST ONE POWDER ROOM OR BATHROOM SHALL BE LOCATED ON THE PRIMARY ENTRY LEVEL, SERVED ON AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH THE PROVISIONS IN DIVISION IV.
3. ALL ROOMS OR SPACES LOCATED ON THE PRIMARY ENTRY LEVEL SHALL BE SERVED BY AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH THE PROVISIONS IN DIVISION IV. ROOMS AND SPACES LOCATED ON THE PRIMARY ENTRY LEVEL AND SUBJECT TO THE PROVISIONS OF THIS CHAPTER MAY INCLUDE BUT ARE NOT LIMITED TO KITCHENS, POWDER ROOMS, BATHROOMS, LIVING ROOMS, BEDROOMS OR HALLWAYS.
4. COMMON USE AREAS COVERED BY THIS SECTION SHALL BE ACCESSIBLE AS REQUIRED BY THIS CHAPTER. PUBLIC USE AREAS AS DEFINED IN CHAPTER 2, CHAPTER 11A AND CHAPTER 11B OF THIS CODE ARE SUBJECT TO PROVISIONS OF THE DIVISION OF THE STATE ARCHITECT (DSARC) AND REFERENCED IN SECTION 101.11.11.

**II. ENTRANCES**

1. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3 FEET IN WIDTH AND NOT LESS THAN 80 INCHES IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF THE DOORWAY IS NOT LESS THAN 32 INCHES.
2. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8 1/2 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS.
3. LATCHING AND LOCKING DEVICES THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HORIZONTAL PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
4. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30 INCHES AND 44 INCHES ABOVE THE FLOOR.
5. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY HANDICAPPED/PHYSICALLY DISABLED PERSONS SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO ALONG APPROACHING FEDESTRIAN WAY.
6. WALLS MUST BE UNOBSTRUCTED ON PULL SIDE OF DOOR FROM EDGE OF DOOR FOR 18\"/>

**III. FLOORS AND LEVELS**

1. EVERY CORRIDOR SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE NOT LESS IN WIDTH THAN 44 INCHES.

**IV. SANITARY FACILITIES (GENERAL)**

1. ALL DOORWAYS LEADING TO SANITARY FACILITIES SHALL HAVE 32 INCH MINIMUM CLEAR UNOBSTRUCTED OPENINGS.

**V. TOILET ROOM FIXTURES AND ACCESSORIES**

1. THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE A MINIMUM OF 17 INCHES AND A MAXIMUM OF 19 INCHES MEASURED TO THE TOP OF THE TOILET SEAT. (ADA 17\"/>

**VII. GRAB BARS**

1. GRAB BARS SHALL BE LOCATED ON EACH SIDE, OR ONE SIDE AND THE BACK OF THE PHYSICALLY DISABLED TOILET STALL OR COMPARTMENT AND SHALL BE SECURELY ATTACHED 90 INCHES HIGH FROM THE FLOOR.
2. GRAB BARS AT THE SIDE SHALL BE AT LEAST 42 INCHES LONG WITH THE FRONT END POSITIONED 24 INCHES IN FRONT OF THE WATER CLOSET STALL, AND GRAB BARS AT THE BACK SHALL BE NOT LESS THAN 36 INCHES LONG.
3. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4 INCHES TO 1-1/2 INCHES OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.
4. IF THE GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2 INCHES.
5. A GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.
6. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
7. EDGES SHALL HAVE A MINIMUM RADIUS OF 18 INCH.

**VIII. ADDITIONAL REQUIREMENTS**

1. THE CENTER OF RECEPTACLE OUTLETS SHALL BE NOT LESS THAN 15 INCHES ABOVE THE FLOOR OR WORKING PLATFORM.
2. THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE NOT LESS THAN 3 FEET FOR MORE THAN 4 FEET ABOVE THE FLOOR OR WORKING PLATFORM.
3. THE CENTER OF FIRE ALARM INITIATING DEVICES (BELL) SHALL BE LOCATED 48 INCHES ABOVE THE LEVEL OF THE FLOOR, WORKING SURFACE OR BROWLINE.
4. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH IN THESE BUILDING STANDARDS. THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND.
5. THE SYMBOL SHALL BE EQUAL TO COLOR NO. 15000 IN FEDERAL STANDARD 595A.

**VIII. MISCELLANEOUS**

1. LAVATORIES SHALL BE MOUNTED WITH A MINIMUM DISTANCE OF 16\"/>

**IX. ADA COMPLIANCE**

THE AMERICANS WITH DISABILITIES ACT (ADA), PROVIDES THAT ALTERATIONS TO A FACILITY MUST BE MADE IN SUCH A MANNER THAT, TO THE MAXIMUM EXTENT FEASIBLE, THE ALTERED PORTIONS OF THE FACILITY ARE READILY ACCESSIBLE TO AND BY INDIVIDUALS WITH DISABILITIES. THE CLIENT ACKNOWLEDGES THAT THE REQUIREMENTS OF THE ADA WILL BE SUBJECT TO VARIOUS AND POSSIBLY CONTRADICTORY INTERPRETATIONS. THE DESIGN PROFESSIONAL (PDBA), THEREFORE, WILL USE THEIR REASONABLE PROFESSIONAL EFFORTS AND JUDGMENT TO INTERPRET APPLICABLE ADA REQUIREMENTS AND OTHER FEDERAL, STATE AND LOCAL LAWS, RULES, CODES, ORDINANCES AND REGULATIONS AS THEY APPLY TO THE PROJECT. THE DESIGN PROFESSIONAL (PDBA), HOWEVER, CANNOT AND DOES NOT WARRANT OR GUARANTEE THAT THE CLIENT'S PROJECT WILL COMPLY WITH ALL INTERPRETATIONS OF THE ADA REQUIREMENTS AND/OR THE REQUIREMENTS OF THE OTHER FEDERAL, STATE AND LOCAL LAWS, RULES, CODES, ORDINANCES AND REGULATIONS AS THEY APPLY TO THE PROJECT.

ARCHITECTURE

**PHILIP BANTA & ASSOCIATES**

6060 HOLUS STREET  
EMERYVILLE, CALIFORNIA 94808

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FAX: 510.654.3259  
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REVISIONS:  ISSUES:

No.	Description	Date
1/1	1ST PLAN CHECK REVIEW	01/14/14
1/2	BUILDING PERMIT	12/12/13

PROJECT:

**35th @ School**  
Oakland, CA 94619

LICENSED ARCHITECT  
PHILIP BANTA  
No. C-14646  
Ren. 4/30/15  
STATE OF CALIFORNIA

SHEET DESCRIPTION:

**ACCESSIBILITY  
DETAILS/INFORMATION**

**APPLICANT  
COPY**

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JH/JY  
CHECKED BY: PB  
SCALE: As Indicated

**GEN-05**

12/7/2013 4:02:27 PM

NOTES IN COMPLIANCE WITH: (ADA PART III 28 CFR PART 36), (ADA PART IV 28 CFR PART 35), (ANSI A117.1-1988) AND (TITLE 24 CALIFORNIA) GUIDELINES.

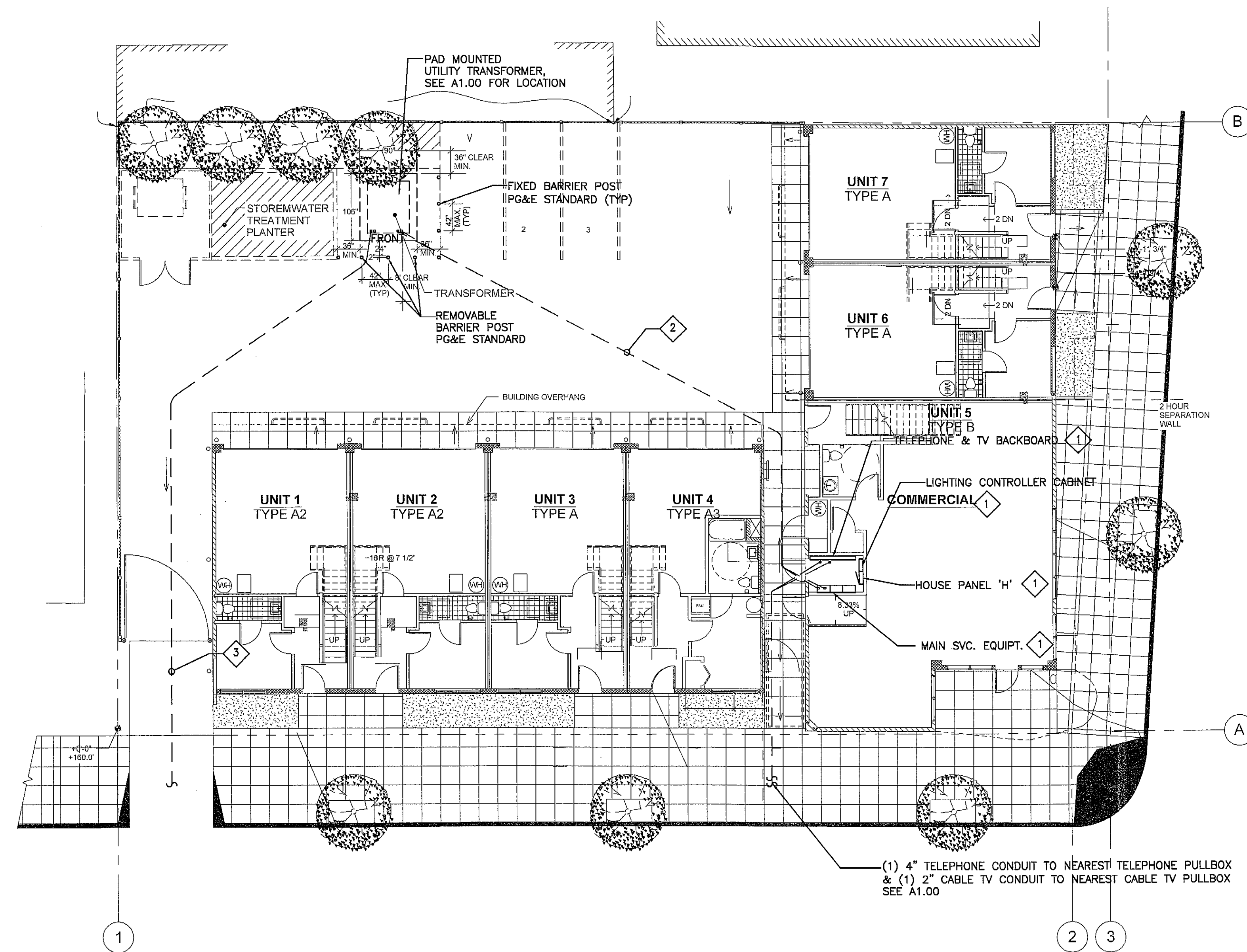




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### SITE PLAN

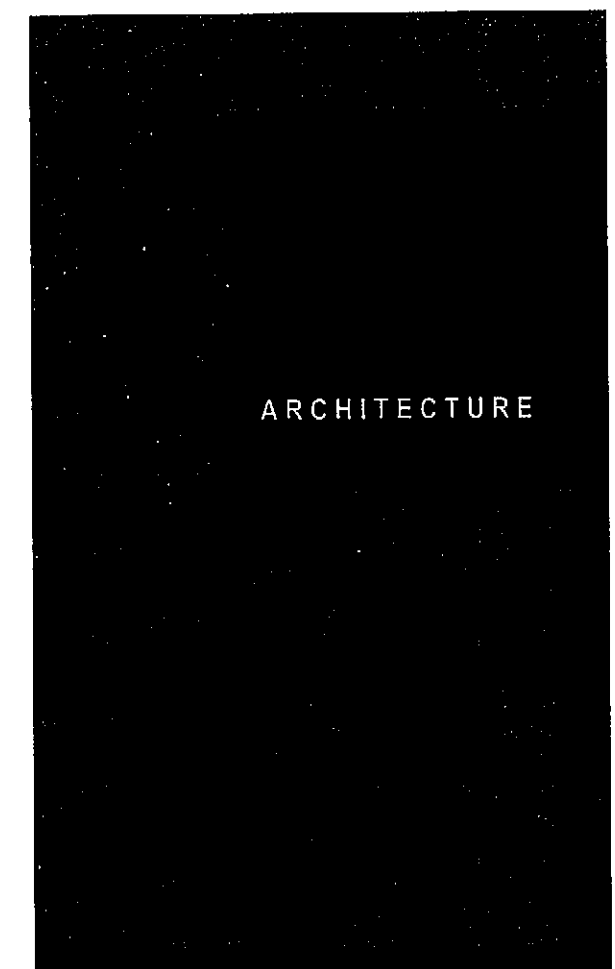


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### SHEET NOTES

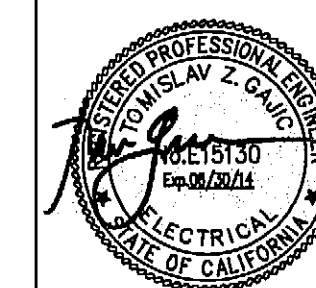
- 1 SEE E2.01 FOR METER, PANEL, CONTROLLER & BACKBOARD LOCATIONS IN UTILITY ROOM.
- 2 SECONDARY SERVICE UNDERGROUNDED CONDUITS FROM TRANSFORMER TO MAIN SERVICE EQUIPMENT.
- 3 PRIMARY SERVICE UNDERGROUNDED CONDUITS FROM PG&E SOURCE.



REVISIONS		ISSUES
NO.	DATE	DESCRIPTION
1	01/14/14	1ST PLAN CHECK REVIEW
2	12/13/2013	BUILDING PERMIT SET

PROJECT:  
**35th @ School**  
 Oakland, CA 94619

CONSULTANTS



**ACIES ENGINEERING**  
 111 W. Evelyn Avenue, Suite 301,  
 Sunnyvale, CA 94086  
 ph: (408) 522-5255  
 fx: (408) 522-5250  
 info@acies.net  
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SHEET DESCRIPTION

**SITE ELECTRICAL PLAN**

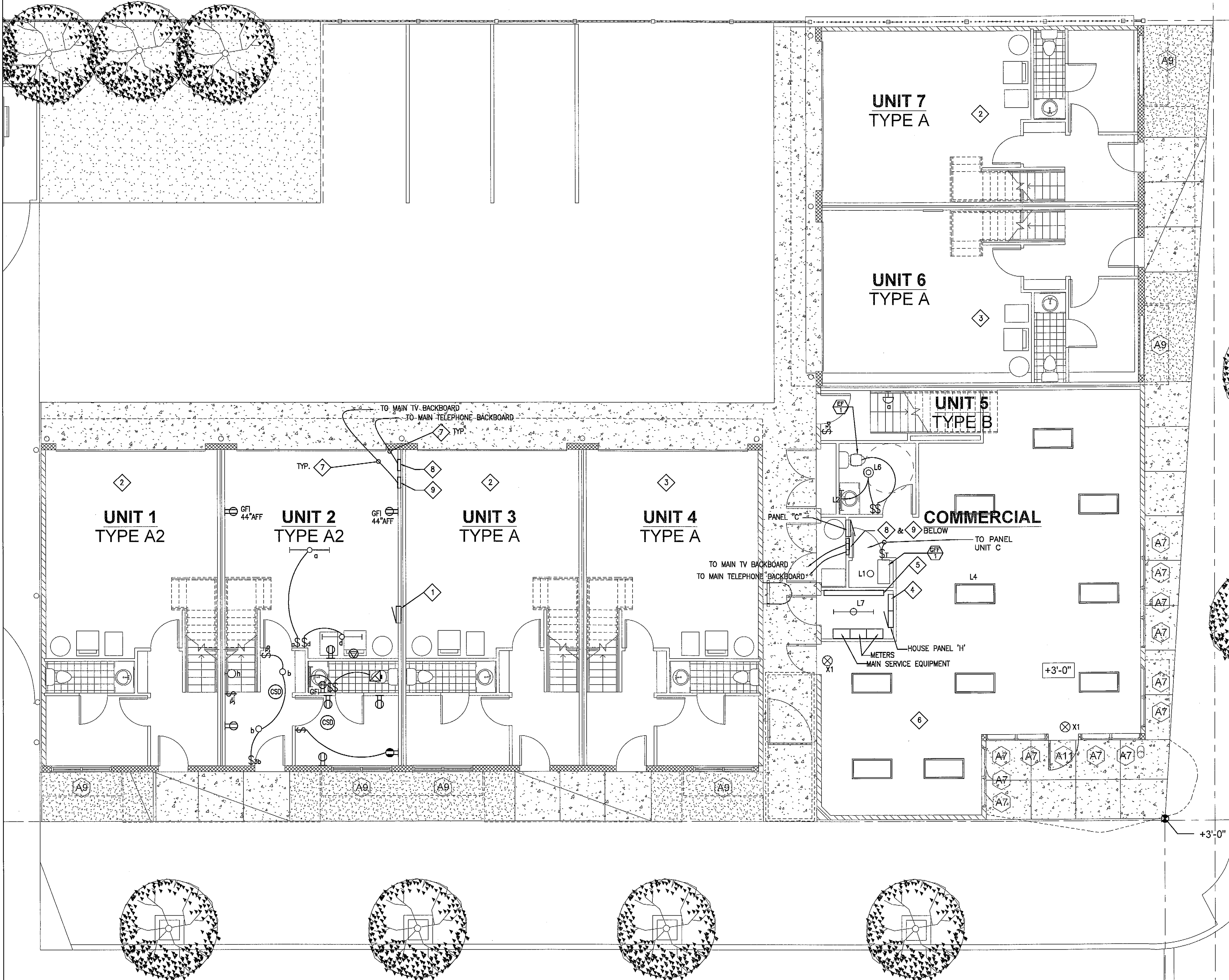
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 DATE: 12/12/13  
 DRAWN BY: RP  
 CHECKED BY: JS  
 CAD TITLE:  
 SHEET NUMBER:

# E1.01

OF SHEETS

1 SCALE: 3/16"=1' GROUND FLOOR ELECTRICAL PLAN

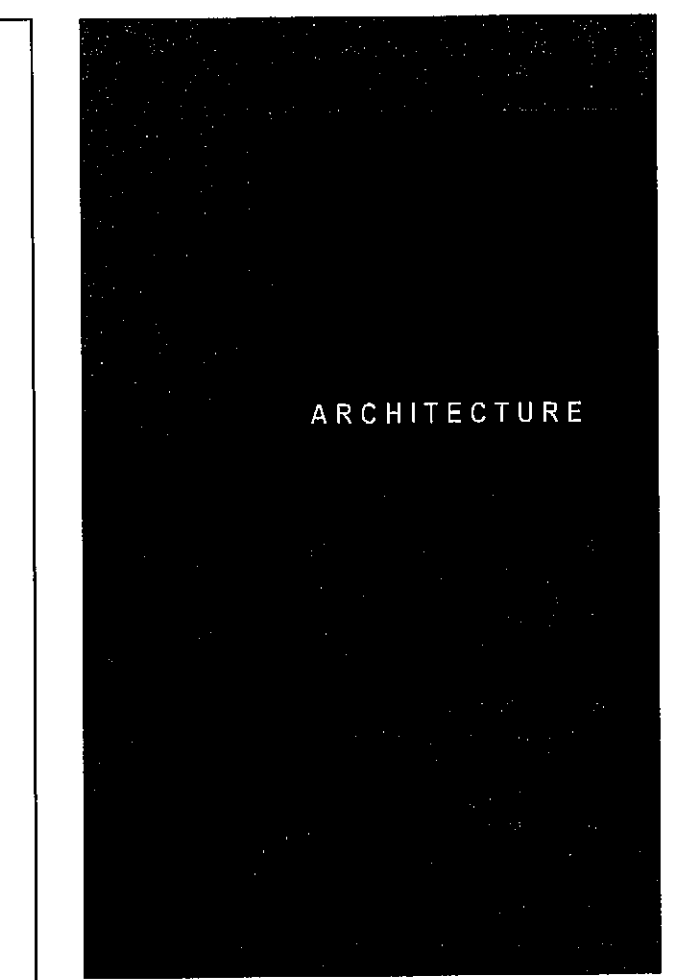
2 SCALE: N.T.S. GENERAL NOTES



- DEVICES AND LIGHTING FIXTURE SHOW ARE FOR GUIDANCE ONLY AND REFERENCE FOR TITLE 24 COMPLIANCE. DESIGN SHALL BE FOR COMPLETION BY DESIGN-BUILD CONTRACTOR.
- UNDERGROUND SERVICE CONDUITS SHALL BE SEALED PER NEC ARTICLE 230-8.
- FOR ALL RECESSED LIGHT FIXTURES IN FIRE RATED CEILING, PROVIDE ADDITIONAL GYP-BOARD ENCLOSURE AROUND THE FIXTURE TO MAINTAIN THE CEILING RATING. SEE 1/EO.1.

2 SCALE: N.T.S. SHEET NOTES

- ELECTRICAL PANEL FOR UNIT, FLUSH MOUNTED
- MIRROR IMAGE OF UNIT 2, TYPE A2.
- SAME AS UNIT 2, TYPE A2.
- LTC CONTROL CABINET "LC"
- MAIN TEL. & TV BACKBOARD, 3/4" THK 4'Hx6'W, FIRE RESISTANT.
- SEE EO.03 FOR TITLE 24 LIGHTING COMPLIANCE.
- 1-1 1/4" C WITH PULLWIRE
- TELEPHONE BOX, 11"x14"x5"D, WITH 3/4" THK TREATED PLYWOOD BACKBOARD, FLUSH MOUNTED
- CABLE TV BOX, 11"x14"x5"D, WITH 3/4" THK TREATED PLYWOOD BACKBOARD, FLUSH MOUNTED.



REVISIONS		ISSUES	
NO.	DATE	DESCRIPTION	

PROJECT: 12/13/2013 BUILDING PERMIT SET  
**35th @ School**  
**Oakland, CA 94619**

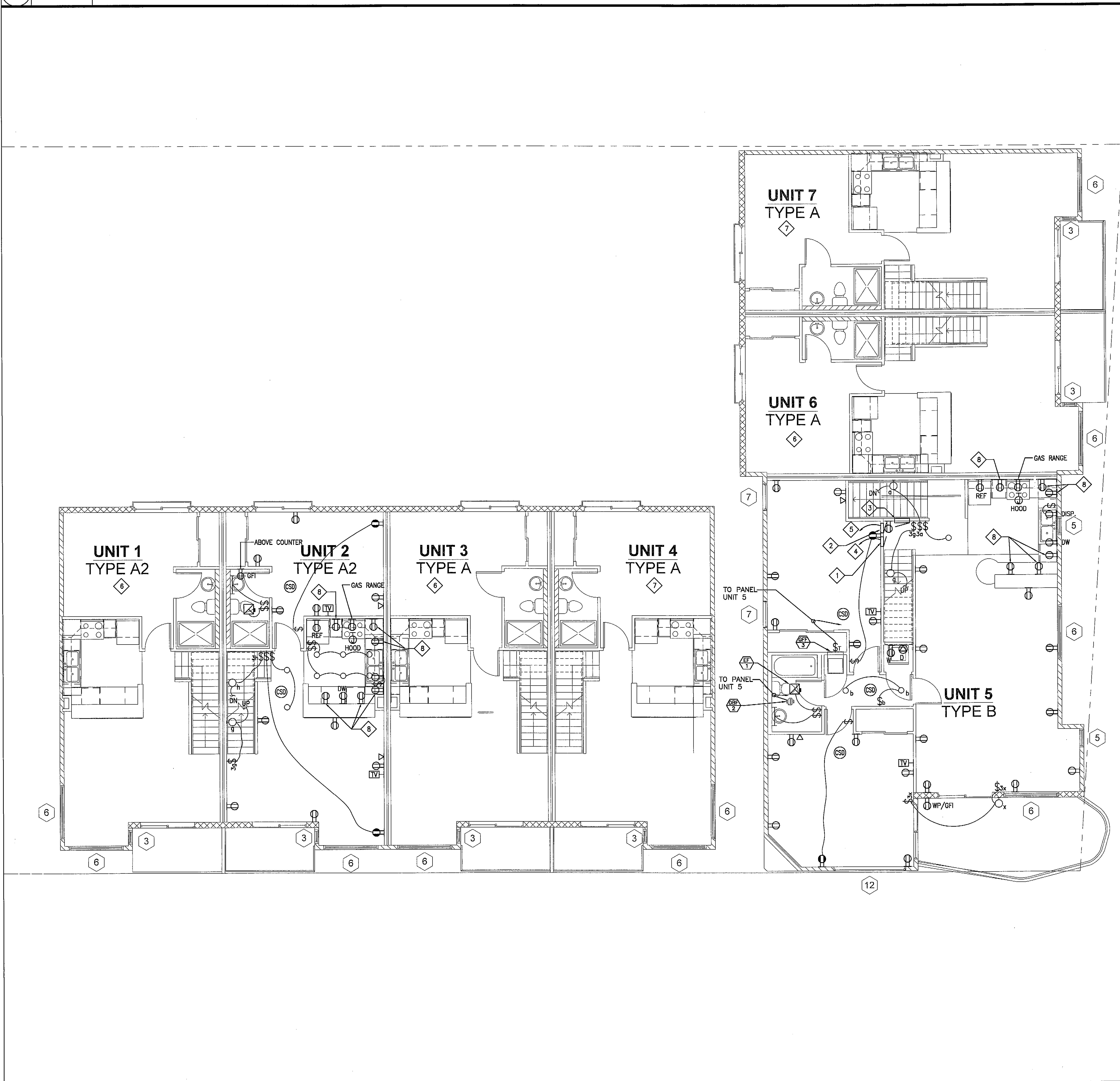
CONSULTANTS:  
  
**ACIES ENGINEERING**  
 111 W. Evelyn Avenue, Suite 301,  
 Sunnyvale, CA 94086  
 ph: (408) 522-5255  
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SHEET DESCRIPTION:  
**GROUND FLOOR ELECTRICAL PLAN**  
 JOB NUMBER: 0714  
 SCALE:  
 DATE: 12/12/13  
 DRAWN BY: RP  
 CHECKED BY: JS  
 CAD TITLE:  
 SHEET NUMBER:

**E2.01**  
 OF SHEETS

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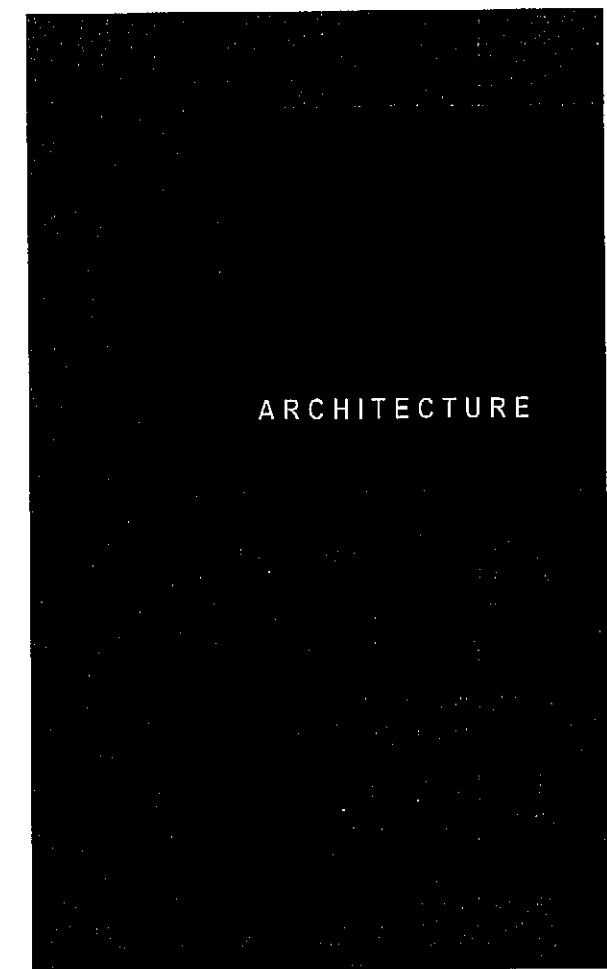
2 SCALE: N.T.S. GENERAL NOTES



1. FIXTURES AND DEVICES SHOWN ARE FOR GUIDANCE ONLY. DESIGN SHALL BE COMPLETED BY THE DESIGN/BUILT CONTRACTOR.

2 SCALE: N.T.S. SHEET NOTES

- 1 CABLE TV BOX, 11"x14"x5"D WITH 3/4" THK. TREATED PLYWOOD BACKBOARD, FLUSH MOUNTED.
- 2 TELEPHONE BOX, 11"x14"x5"D WITH 3/4" THK. TREATED PLYWOOD BACKBOARD, FLUSH MOUNTED.
- 3 PANEL FOR UNIT 5, FLUSH MOUNTED.
- 4 PROVIDE 1-1 1/4"Ø WITH PULLWIRE HOMERUN TO MAIN CABLE TV BACKBOARD AT GROUND FLOOR.
- 5 PROVIDE 1-1 1/4"Ø WITH PULLWIRE HOMERUN TO MAIN TEL. BACKBOARD AT GROUND FLOOR.
- 6 MIRROR IMAGE OF UNIT 2, TYPE A2.
- 7 SAME AS UNIT 2, TYPE A2.
- 8 GFI TYPE RECEPTACLE ABOVE COUNTER.



REVISIONS:		ISSUES:
NO.	DATE	DESCRIPTION

12/13/2013 BUILDING PERMIT SET  
PROJECT:

35th @ School  
Oakland, CA 94619

CONSULTANTS:

**ACIES ENGINEERING**  
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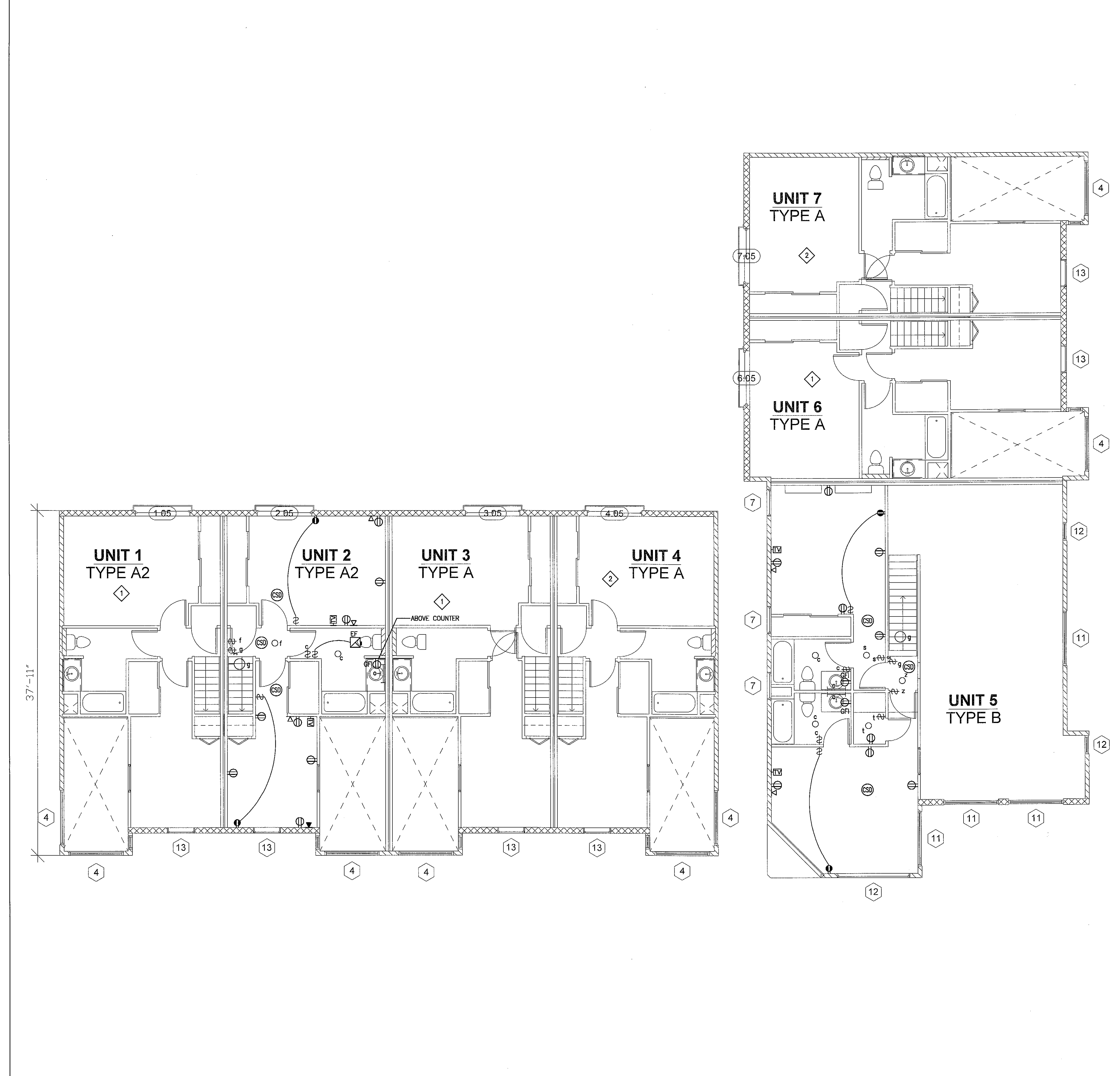
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SCALE:  
DATE: 12/12/13  
DRAWN BY: RP  
CHECKED BY: JS  
CAD TITLE:  
SHEET NUMBER:

**E2.02**  
OF SHEETS

**1** SCALE: 3/16"=1' **THIRD FLOOR ELECTRICAL PLAN**

**2** SCALE: N.T.S. **GENERAL NOTES**



1. FIXTURES AND DEVICES SHOWN ARE FOR GUIDANCE ONLY. DESIGN SHALL BE COMPLETED BY THE DESIGN/BUILT CONTRACTOR.

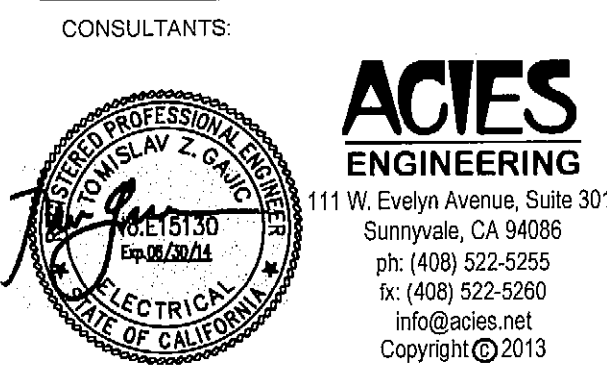
**2** SCALE: N.T.S. **SHEET NOTES**

- ① MIRROR IMAGE OF UNIT 2, TYPE A2.
- ② SAME AS UNIT 2, TYPE A2.



REVISIONS: <input type="checkbox"/>		ISSUES: <input type="checkbox"/>	
NO.	DATE	DESCRIPTION	

PROJECT: 12/13/2013 BUILDING PERMIT SET  
**35th @ School**  
**Oakland, CA 94619**



SHEET DESCRIPTION:  
**THIRD FLOOR ELECTRICAL PLAN**

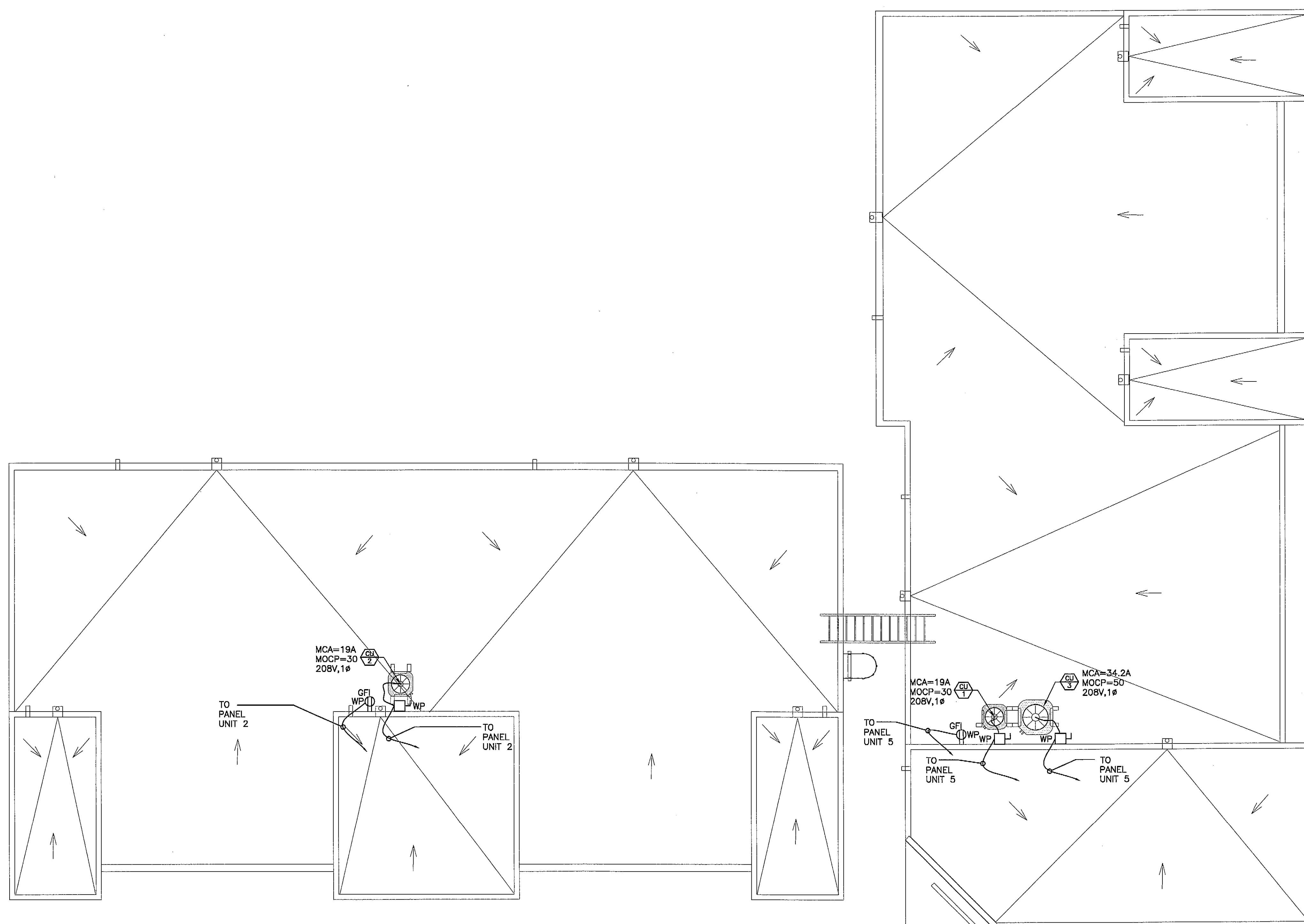
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 DATE: 12/12/13  
 DRAWN BY: RP  
 CHECKED BY: JS  
 CAD TITLE:  
 SHEET NUMBER:

**E2.03**  
 OF SHEETS

1

SCALE: 3/16"=1'

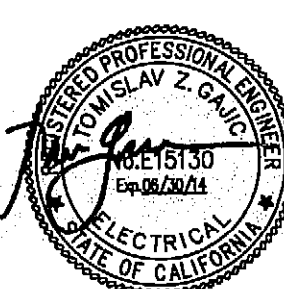
# ROOF ELECTRICAL PLAN



REVISIONS: $\Delta$		ISSUES: $\circ$
NO.	DATE	DESCRIPTION

PROJECT:  
**35th @ School**  
 Oakland, CA 94619

CONSULTANTS:



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SHEET DESCRIPTION:  
**ROOF ELECTRICAL PLAN**

JOB NUMBER: 0714  
 SCALE:  
 DATE: 12/12/13  
 DRAWN BY: RP  
 CHECKED BY: JS  
 CAD TITLE:  
 SHEET NUMBER:

**E2.04**  
 OF SHEETS

**PLUMBING FIXTURE LOAD CALCULATION - TYPE A&A2**

FIXTURE ID	QTY.	SANITARY F.U.		WATER F.U. COLD		WATER F.U. HOT & TEMPERED	
		EACH	TOTAL	EACH	TOTAL	EACH	TOTAL
WC-1&WC-2	3	4	12	2.5	7.5		
LAV-1&LAV-2	3	1	3	1	3	1	3
KS-1	1	2	2	1.5	1.5	1.5	1.5
DW-1	1	2	2			1.5	1.5
CW-1	1	3	3	4	4	4	4
SH-1 & BT-1	2	2	4	2	4	2	4
REF-1	1			0.5	0.5		
<b>TOTAL</b>			<b>26</b>		<b>20.5</b>		<b>14</b>

**UTILITY LOADS**

SANITARY	(N) 4"	26 F.U.
COLD WATER	(N) 1"	20.5 F.U. = 15 GPM

NOTES:  
 1. WATER SUPPLY FIXTURE UNITS ARE BASED ON 2010 CPC, APPENDIX A, TABLE A-2.  
 2. DRAINAGE FIXTURE UNITS ARE BASED ON 2010 CPC, CHAPTER 7, TABLE 7-3.

**PLUMBING FIXTURE LOAD CALCULATION - TYPE B**

FIXTURE ID	QTY.	SANITARY F.U.		WATER F.U. COLD		WATER F.U. HOT & TEMPERED	
		EACH	TOTAL	EACH	TOTAL	EACH	TOTAL
WC-2	3	4	12	2.5	7.5		
LAV-2	3	1	3	1	3	1	3
KS-1	1	2	2	1.5	1.5	1.5	1.5
DW-1	1	2	2			1.5	1.5
CW-1	1	3	3	4	4	4	4
BT-1	3	2	6	2	6	2	6
REF-1	1			0.5	0.5		
<b>TOTAL</b>			<b>28</b>		<b>22.5</b>		<b>16</b>

**UTILITY LOADS**

SANITARY	(N) 4"	28 F.U.
COLD WATER	(N) 1"	22.5 F.U. = 16 GPM

NOTES:  
 1. WATER SUPPLY FIXTURE UNITS ARE BASED ON 2010 CPC, APPENDIX A, TABLE A-2.  
 2. DRAINAGE FIXTURE UNITS ARE BASED ON 2010 CPC, CHAPTER 7, TABLE 7-3.

**DOMESTIC COLD WATER CALCULATIONS**

PIPE LENGTH FROM THE METER TO THE LAST FIXTURE = 150 FEET  
 TOTAL DEVELOPED LENGTH ( 150 X 1.3 LOSS FOR FITTINGS ) = 195 FEET

STREET PRESSURE = 75 PSI

LOSSES : LOSSES :

RESIDUAL PRESSURE REQUIRE AT THE REMOTE FIXTURE = 20 PSI

STATIC BUILDING LOSS ( 30 FEET X 0.43 ) = 12.9 PSI

THROUGH WATER METER & BACKFLOW PREVENTER = 16 PSI

TOTAL PRESSURE LOSS = 48.9 PSI

DIFFERENCE PRESSURE ( 75 - 48.9 ) = 26.1 PSI

MAXIMUM PRESSURE DROP ALLOWABLE PER 100 FT OF PIPE

{ ( 26.1 X 100 ) / 195 } = 13.38 PSI

DESIGN VELOCITY <= 8 FPS & DESIGN PRESSURE DROP PER 100 FT <= 13 PSI

THE MAXIMUM FLOW RATE FOR EACH PIPE SIZE CAN CARRY

PIPE SIZE	1/2"	3/4"	1"	1-1/4"
GPM	2.7	8.0	17.0	29.0
F.U. (FLUSH TANK)	3	10	24	51

BASED ON THE CPC 2010 APPENDIX A

**PLUMBING FIXTURE SCHEDULE**

FIXT. ID	DESCRIPTION	MANUFACTURER	MODEL	ROUGH-IN				REMARKS
				W	V	CW	HW	
WC-1	WATER CLOSET ADA COMPLIANT TANK TYPE	-	-	3"	2"	1/2"	-	SELECTED BY THE ARCHITECT, TO BE INSTALLED BY PLUMBING CONTRACTOR. MAXIMUM FLOW 1.28 GPF.
LAV-1	LAVATORY ADA COMPLIANT	-	-	1-1/2"	1-1/2"	1/2"	1/2"	SELECTED BY THE ARCHITECT, TO BE INSTALLED BY PLUMBING CONTRACTOR. MAXIMUM FLOW 0.4 GPF.
WC-2	WATER CLOSET TANK TYPE	-	-	3"	2"	1/2"	-	SELECTED BY THE ARCHITECT, TO BE INSTALLED BY PLUMBING CONTRACTOR. MAXIMUM FLOW 1.28 GPF.
LAV-2	LAVATORY	-	-	1-1/2"	1-1/2"	1/2"	1/2"	SELECTED BY THE ARCHITECT, TO BE INSTALLED BY PLUMBING CONTRACTOR. MAXIMUM FLOW 0.4 GPF.
KS-1	KITCHEN SINK	-	-	2"	1-1/2"	1/2"	1/2"	SELECTED BY THE ARCHITECT, TO BE INSTALLED BY PLUMBING CONTRACTOR. MAXIMUM FLOW 1.8 GPM.
GD-1	GARBAGE DISPOSER	-	-	2"	-	1/2"	-	SELECTED BY THE ARCHITECT, TO BE INSTALLED BY PLUMBING CONTRACTOR.
FCO	FLOOR CLEANOUT	ZURN	Z-1400	SAME AS PIPE SIZE	-	-	-	FLOOR CLEANOUT WITH WATER-GAS TIGHT ABS THREADED PLUG, ROUND STAINLESS STEEL ACCESS COVER.
WCO	WALL CLEANOUT	ZURN	Z-1441	SAME AS PIPE SIZE	-	-	-	WALL CLEANOUT WITH WATER-GAS TIGHT COUNTERSUNK IRON THREADED PLUG, POLISHED NICKEL BRONZE SCORiated ACCESS COVER.
WH-1	GAS WATER HEATER	A.O.SMITH	GPVX-SOL	-	-	3/4"	3/4"	50 GALLON CAPACITY, 62,500 BTU/HR GAS INPUT, 66 GALLONS RECOVERY AT 90°F RISE.
ET-1	EXPANSION TANK	AMTROL	ST-5	-	-	3/4"	-	2.0 GALLONS CAPACITY
CW-1	CLOTHES WASHER	-	-	2"	-	3/4"	3/4"	SELECTED BY THE ARCHITECT, TO BE INSTALLED BY PLUMBING CONTRACTOR.
DW-1	DISHWASHER	-	-	2"	-	3/4"	3/4"	SELECTED BY THE ARCHITECT, TO BE INSTALLED BY PLUMBING CONTRACTOR.
REF-1	REFRIGERATOR	-	-	-	-	1/2"	-	SELECTED BY THE ARCHITECT, TO BE INSTALLED BY PLUMBING CONTRACTOR.
SH-1	SHOWER	-	-	2"	1-1/2"	3/4"	3/4"	SELECTED BY THE ARCHITECT, TO BE INSTALLED BY PLUMBING CONTRACTOR. MAXIMUM FLOW 2 GPF.
BT-1	BATH TUB	-	-	2"	1-1/2"	3/4"	3/4"	SELECTED BY THE ARCHITECT, TO BE INSTALLED BY PLUMBING CONTRACTOR. MAXIMUM FLOW 2 GPF.
CD-1	CLOTHES DRYER	-	-	-	-	-	-	SELECTED BY THE ARCHITECT, TO BE INSTALLED BY PLUMBING CONTRACTOR.
GR-1	GAS RANGE	-	-	-	-	-	-	SELECTED BY THE ARCHITECT, TO BE INSTALLED BY PLUMBING CONTRACTOR.

**GAS WATER HEATER SIZING TYPE A&A2**

FIXTURE ID	FIXTURE TYPE	QUANTITY	GPH DEMAND PER FIXTURE	TOTAL GPH DEMAND
LAV-1&LAV-2	LAVATORY	3	5	15
BT-1	BATH TUB	1	20	20
SH-1	SHOWER	1	15	15
CW-1	CLOTHES WASHER	1	20	20
KS-1	KITCHEN SINK	1	45	45
DW-1	DISHWASHER	1	15	15
				<b>130</b>

HOT WATER DEMAND (GPH) =  
 USAGE FACTOR = 0.4  
 ADDITIONAL LOAD (GPH) = 0  
 TOTAL HOT WATER DEMAND (GPH) = 52  
 TEMPERATURE RISE ( deg.F ) = 70  
 WATER HEATER EFFICIENCY = 80%  
 MINIMUM GAS INPUT (BTU/HR) = 38,000

**GAS WATER HEATER SIZING TYPE B**

FIXTURE ID	FIXTURE TYPE	QUANTITY	GPH DEMAND PER FIXTURE	TOTAL GPH DEMAND
LAV-2	LAVATORY	3	5	15
BT-1	BATH TUB	3	20	60
CW-1	CLOTHES WASHER	1	20	20
KS-1	KITCHEN SINK	1	45	45
DW-1	DISHWASHER	1	15	15
				<b>145</b>

HOT WATER DEMAND (GPH) =  
 USAGE FACTOR = 0.4  
 ADDITIONAL LOAD (GPH) = 0  
 TOTAL HOT WATER DEMAND (GPH) = 62  
 TEMPERATURE RISE ( deg.F ) = 70  
 WATER HEATER EFFICIENCY = 80%  
 MINIMUM GAS INPUT (BTU/HR) = 42,350

**PLUMBING LEGEND**

SYMBOL	ABBREV.	DESCRIPTION
---	CW	DOMESTIC COLD WATER
---	HW	DOMESTIC HOT WATER (105°F)
---	HWR	DOMESTIC HOT WATER RETURN
---	SS	SANITARY SEWER
---	SS	SANITARY SEWER HUNG PIPE
---	V	VENT
---	C	NATURAL GAS (LOW PRESSURE)
---	OFL	OVERFLOW LEADER
---	RWL	RAINWATER LEADER
---	OD	OVERFLOW DRAIN
---	SD	STORM DRAIN
---	D(P)	SUMP PUMP DRAIN
---	GW	GREASE WASTE
---	KW	KITCHEN WASTE
---	CD	CONDENSATE DRAIN
---	WHA	WATER HAMMER ARRESTOR
---	P.O.C.	POINT-OF-CONNECTION
---	CAPPED	CAPPED
---	UNION	UNION
---	UP	PIPE UP
---	DN	PIPE DOWN
---	DN	PIPE TEE DOWN
---	BV	BALL VALVE
---	CV	CHECK VALVE
---	RED	REDUCER
---	FCO	FLOOR CLEANOUT
---	COTG	CLEANOUT TO GRADE
---	HB	HOSE BIBB
---	WCO	WALL CLEANOUT
---	GAS	GAS COCK WITH UNION
---	T&P	TEMPERATURE & PRESSURE RELIEF VALVE
---	AG	ABOVE GROUND
---	AFF	ABOVE FINISHED FLOOR
---	BG	BELOW GROUND
---	CFF	CAP FOR FUTURE
---	IE	INVERT ELEVATION
---	(N)	NEW
---	(E)	EXISTING
---	VTR	VENT THROUGH ROOF
---	SPKR	SPRINKLER LINE

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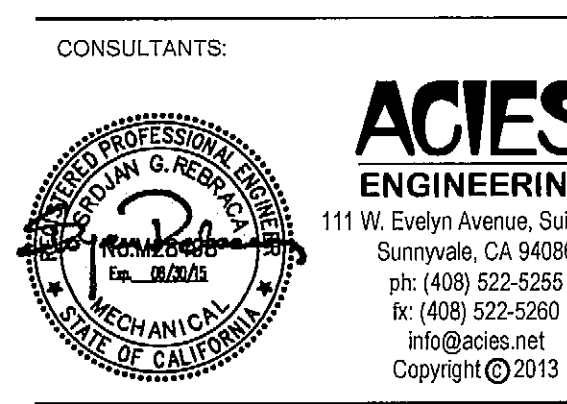
**MATERIAL SPECIFICATIONS**

SERVICES	MATERIAL SPECIFICATIONS						REMARKS
	CAST IRON ND-HUB	DUAL STEEL SCH 40	BLACK STEEL SCH 40	TYPE M COPPER	TYPE L COPPER	TYPE K COPPER	
COLD WATER	ABOVE GROUND						
	BELOW GROUND						
HOT WATER	ABOVE GROUND						
	BELOW GROUND						
WASTE	ABOVE GROUND						
	BELOW GROUND						
VENT	ABOVE GROUND						
	BELOW GROUND						
NATURAL GAS	INDOOR						
	OUTDOOR						PAINTED WITH RUST INHIBITING PAINT
INDIRECT WASTE	INDOOR						
	OUTDOOR						
STORM DRAIN	ABOVE GROUND						
	BELOW GROUND						



REVISIONS		ISSUES
NO.	DATE	DESCRIPTION

35th @ School  
 Oakland, CA 94619



**PLUMBING LEGEND, NOTES & CALCULATIONS**

JOB NUMBER: 0714  
 SCALE: NONE  
 DATE: 12/12/13  
 DRAWN BY: MV  
 CHECKED BY: RT  
 CAD TITLE:  
 SHEET NUMBER:

**P0.01**  
 OF SHEETS





PLUMBING SPECIFICATIONS (DIVISION 22)

1.00 - GENERAL

1.01 DESCRIPTION OF WORK  
 FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED FOR AND/OR REASONABLY INCIDENTAL TO THE COMPLETION OF THE FOLLOWING WORK.  
 A. SANITARY WASTE AND VENT PIPING SYSTEM INCLUDING CONNECTIONS TO BUILDING SEWER AS SHOWN.  
 B. DOMESTIC HOT AND COLD WATER SYSTEMS INCLUDING WATER HEATER, AND RELATED ACCESSORIES AND CONTROLS. CONNECTION TO BUILDING WATER AS SHOWN.  
 C. PLUMBING FIXTURES, TRIM AND ACCESSORIES INCLUDING INSTALLATION AND SUPPORT.  
 D. FLASHING AND SEALING OF ROOF AND EXTERIOR WALL PENETRATIONS FOR WATER TIGHTNESS.  
 E. CAULKING AND SEALING OF FLOOR AND WALL PENETRATIONS AND FORMED SHAFT PENETRATIONS.  
 F. BACKING FOR SECURING FIXTURES, TRIM AND PIPING.  
 G. ACCESS DOORS WHERE SHOWN OR REQUIRED BY CODE.  
 H. HANGERS, SUPPORTS, AND GUIDES.  
 I. CLEANUP OF DEBRIS AND FINAL CLEANUP OF DRAINS, FIXTURES AND EQUIPMENT.  
 J. RECORD DRAWINGS AND OPERATING MANUALS.  
 K. LICENSE, PERMITS AND ASSOCIATED FEES.  
 L. CUTTING, DRILLING AND PATCHING FOR ALL SURFACES IN RELATION TO PLUMBING WORK.  
 M. CONDENSATE DRAINS FROM HVAC EQUIPMENT.

1.02 RELATED WORK INCLUDED UNDER OTHER DIVISIONS.  
 A. DIVISION 21-- FIRE SUPPRESSION  
 B. DIVISION 23-- HEATING, VENTILATING AND AIR CONDITIONING  
 C. DIVISION 26-- ELECTRICAL

1.03 EXAMINATION OF SITE  
 A. VISIT SITE BEFORE SUBMITTING BID AND CHECK LOCATION OF ALL EXISTING CONDITIONS WHICH WILL AFFECT THIS WORK, VERIFY DIMENSIONS AND LOCATIONS SHOWN ON DRAWINGS AND COVER ALL COSTS. CONTRACTOR SHALL ASSUME REASONABLE VARIATIONS OR MINOR OMISSIONS AND SHALL COMPLETE WORK WITHOUT ADDITIONAL COST. FAILURE TO VISIT SITE WILL NOT LESSEN RESPONSIBILITY OR ENTITLE ADDITIONAL COMPENSATION FOR WORK NOT INCLUDED IN PROPOSAL.

1.04 DRAWINGS  
 THE ACCOMPANYING DRAWINGS SHALL BE CONSIDERED PART OF THESE SPECIFICATIONS. WORK AND MATERIALS SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS AND VICE VERSA SHALL BE EXECUTED AS IF SPECIFICALLY MENTIONED OR SHOWN IN BOTH. THE DRAWINGS SHALL BE CONSIDERED AS SCHEMATIC IN NATURE AND MINOR MODIFICATIONS OF THE WORK TO COMPLY WITH THE STRUCTURE AS FOUND SHALL BE MADE.

1.05 RULES AND REGULATIONS  
 A. ALL WORK AND MATERIAL SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE, FIRE MARSHAL AND OTHER APPLICABLE STATE AND LOCAL RULES AND REGULATIONS. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.  
 B. FURNISH WITHOUT ANY EXTRA CHARGE ANY ADDITIONAL MATERIAL AND LABOR WHEN REQUIRED TO COMPLY WITH THESE LAWS, ORDINANCES AND CODES REGARDLESS OF WHETHER SHOWN OR MENTIONED IN THESE SPECIFICATIONS OF DRAWINGS.

1.06 SUBMITTALS  
 A. SUBMIT FOR REVIEW TO THE OWNER A COMPLETE AND ALL-INCLUSIVE LIST OF EQUIPMENT AND MATERIALS PROPOSED FOR USE (6 COPIES), ACCOMPANIED BY MANUFACTURER'S DATA SHEETS. DATA SHALL BE FORWARDED IN A SINGLE PACKAGE WRITTEN 15 DAYS AFTER AWARD OF CONTRACT. SUBMIT SIX BLUELINE PRINTS AND ONE REPRODUCIBLE SHOP DRAWING SHOWING PROPOSED PLUMBING INSTALLATION. INCLUDE SIZES, LOCATIONS AND OTHER REQUIRED INFORMATION TO COORDINATE INSTALLATION WITH OTHER TRADES.  
 B. WITHIN 5 DAYS AFTER AWARD OF CONTRACT, SUBMIT 6 COPIES OF A LETTER STATING ANY MATERIALS THAT CONTRACTOR WISHES TO SUBSTITUTE TO THE OWNER FOR APPROVAL. INCLUDE SUCH INFORMATION AS MANUFACTURER'S NAME, TYPE OF MATERIAL, CERTIFIED RATINGS, OVERALL APPEARANCE, AND NECESSARY INFORMATION TO EXPLAIN FUNCTION AND OPERATION OF MATERIAL. ALL PROPOSED SUBSTITUTIONS SHALL BE EQUAL IN QUALITY, DESIGN, UTILITY AND APPEARANCE TO MATERIAL, EQUIPMENT OR METHOD SPECIFIED.

1.07 AS-BUILT DRAWINGS  
 A SET OF PLUMBING PLANS WILL BE FURNISHED TO THE CONTRACTOR ON WHICH HE SHALL INDICATE THE INSTALLATION "AS-BUILT" AS THE WORK PROGRESSES. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE DRAWINGS SHALL BE OBTAINED FROM THE OWNER AT COST, AND ALL CHANGES AS NOTED ON THE RECORD SET OF PRINTS SHALL BE INCORPORATED THEREON. THIS SET OF REPRODUCIBLES, ALONG WITH ONE SET OF BLUEPRINTS, SHALL BE DELIVERED TO THE OWNER UPON COMPLETION AND BEFORE FINAL ACCEPTANCE OF THE PROJECT.

1.08 GUARANTEE  
 THE CONTRACTOR SHALL LEAVE THE ENTIRE INSTALLATION IN COMPLETE WORKING ORDER FREE FROM ANY DEFECTIVE MATERIAL, WORKMANSHIP OR FINISH. HE SHALL GUARANTEE TO REPAIR OR REPLACE, WITHOUT CHARGE, DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF FILING OF THE NOTICE OF COMPLETION.

1.09 OPERATION MANUALS AND OWNER INSTRUCTIONS  
 A. PROVIDE COMPLETE OPERATION AND MAINTENANCE MANUALS COVERING ALL PLUMBING SYSTEMS AND EQUIPMENT THAT HAVE BEEN INSTALLED. THREE (3) COPIES OF THE MANUAL SHALL BE BOUND IN HARDBACK BINDERS.  
 B. PROVIDE INSTRUCTIONS TO OWNER AS TO OPERATION OF ALL EQUIPMENT. INSTRUCTION PERIOD TO COMMENCE FOR MINIMUM OF (2) HOURS AND SHALL BE SCHEDULED AT OWNER'S CONVENIENCE.

1.10 CUTTING AND PATCHING  
 A. THE CONTRACTOR SHALL DO ALL CUTTING, DRILLING AND PATCHING WHICH MAY BE REQUIRED FOR THE INSTALLATION OF THE WORK UNDER THIS SECTION OF THE SPECIFICATIONS.  
 B. PATCHING SHALL BE OF THE SAME WORKMANSHIP, MATERIAL AND FINISH AND SHALL MATCH ACCURATELY ALL SURROUNDING CONSTRUCTION IN A MANNER SATISFACTORY TO THE OWNER. NO CUTTING OF THE STRUCTURE SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE OWNER.

2.00 - MATERIALS

2.01 PIPING  
 A. HUBLESS CAST IRON SOIL PIPE AND FITTINGS:  
 1. PIPE AND FITTINGS FOR BOTH UNDERGROUND AND ABOVEGROUND INSTALLATION SHALL BE NO-HUB CAST IRON PIPE AND FITTINGS MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888, AND CISPI 301 (CURRENT VERSION). ALL PIPE AND FITTINGS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS. PRODUCTS MUST BE MARKED WITH THE NAME OF THE USPTO REGISTERED TRADEMARK OF THE MANUFACTURER. ACCEPTABLE MANUFACTURERS ARE CHARLOTTE PIPE, STAR PIPE PRODUCTS, TYLER/AB&i OR APPROVED EQUAL.  
 2. STANDARD COUPLINGS SHALL BE USED FOR BRANCH PIPING AND SHALL CONFORM TO CISPI STANDARD 310, ASTM C 1227, AND ASTM C 564. COUPLINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S BAND TIGHTENING SEQUENCE AND TORQUE RECOMMENDATIONS. TIGHTEN BANDS WITH A PROPERLY CALIBRATED TORQUE LIMITING DEVICE.  
 3. HEAVY DUTY COUPLINGS (BLUE SHIELD) SHALL BE USED FOR MAIN PIPING AND SHALL CONFORM TO ASTM C 1540, AND ASTM C 564. THIRD PARTY TESTING AND LISTING IS REQUIRED TO PROVE CONFORMANCE TO THE STANDARDS. COUPLINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S BAND TIGHTENING SEQUENCE AND TORQUE RECOMMENDATIONS. TIGHTEN BANDS WITH A PROPERLY CALIBRATED TORQUE LIMITING DEVICE.  
 4. THE SYSTEM SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION TO 10 FEET OF HEAD, OR AIR TEST TO 4.3 PSI.

B. INTERIOR ABOVEGROUND SOIL, WASTE, VENT AND STORM DRAIN PIPING:  
 1. 3" AND LARGER - HUBLESS CAST-IRON PIPE AND FITTINGS.  
 2. 2" AND SMALLER - COPPER DWV TUBE, COPPER DRAINAGE FITTINGS, AND THREADED JOISTS.

C. INTERIOR DOMESTIC WATER PIPING:  
 3" AND SMALLER - TYPE L HARD TEMPERED COPPER WITH SOLDER END FITTINGS. 95-5 TIN AND ANTIMONY SOLDER JOINTING (LEAD-FREE). USE TYPE K FOR UNDERGROUND PIPING.

D. CONDENSATE DRAIN PIPING:  
 COPPER WATER TUBE ASTM 888, TYPE "M", SOLDER WITH 95-5 SOLDER, LEAD-FREE TYPE. CONDENSATE DRAIN PIPE IN CEILING SPACE SHALL BE INSULATED WITH 1/2" THICK ARMSTRONG ARMAFLEX, AND SECTIONS BUTTED FIRMLY TOGETHER.

E. THE FIRE-TEST RESPONSE CHARACTERISTIC OF ANY PIPING INSULATION SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, OR REQUIRED BY LOCAL CODES.

F. DOMESTIC HOT WATER, TEMPERED WATER AND HOT WATER RETURN PIPING SHALL BE INSULATED WITH 1" THICK DENSITY GLASS FIBER INSULATION, HAVING FACTORY-APPLIED, SELF-SEALING ALL-SERVICE JACKET, MOLDED TO CONFORM TO PIPING, K-VALUE AT 75 DEGREES F, MAXIMUM 0.23 BTU-IN/HR-SQ.FT. DEGREES F.

2.02 PIPE FLASHINGS  
 #4 LEAD WITH COUNTERFLASHING RING BY GLENCO, STONEMAN ENGINEERING OR APPROVED EQUAL.

2.03 VALVES  
 A. GATE VALVES: RED & WHITE 204 OR EQUAL, 3" AND SMALLER.  
 B. CHECK VALVES: RED & WHITE 238 OR EQUAL, 3" AND SMALLER.  
 C. BALL VALVES: BRASS OR BRONZE BODY WITH CHROME-PLATED BRONZE BALL, MSS SP-110, RED & WHITE VALVE 5044F OR EQUAL.

2.04 PLUMBING FIXTURES AND TRIM:  
 PLUMBING FIXTURES TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. SEE PLUMBING FIXTURE SCHEDULE.

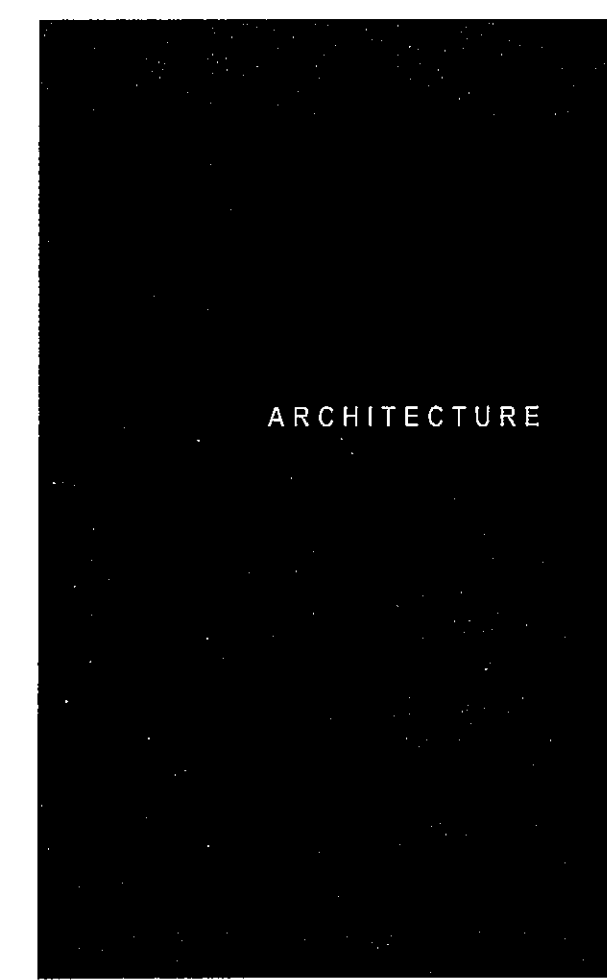
2.05 PIPE HANGERS AND SUPPORTS  
 A. SUPERSTRUT, GRINNELL, OR APPROVED EQUAL.  
 B. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.  
 C. ALL HANGERS BELOW DECK TO BE STAINLESS STEEL. ALL BOLTS AND THREADED ROLS SHALL HAVE DOUBLE NUTS FOR LOCKING.

3.00 - INSTALLATION AND EXECUTION

3.01 GENERAL  
 A. SUPPORT C.I. SOIL PIPING AT 5 FEET ON CENTER MAXIMUM AND EACH JOINT AND/OR FITTING, SUPPORT 1/2" AND 3/4" PIPING AT 6 FEET ON CENTER MAXIMUM. SUPPORT 1" TO 1-1/2" PIPING AT 8 FEET ON CENTERS. SUPPORT 2" AND LARGER PIPING AT 10 FEET ON CENTER MAXIMUM. STEEL PIPING 4" AND LARGER MAY BE SUPPORTED AT 12 FEET ON CENTER MAXIMUM EXCEPT FOR VICTAULG FITTED PIPING WHICH SHALL BE SUPPORTED AT 10 FEET ON CENTER MAXIMUM.

3.02 SPECIAL REQUIREMENTS, RESPONSIBILITIES AND TESTING  
 A. INSTALL PIPING GENERALLY LEVEL, FREE OF TRAPS AND UNNECESSARY BENDS, TO CONFORM WITH BUILDING REQUIREMENTS. PIPE TO BE FREE OF DEFECTS, AND INSTALLED TO AVOID ANY POSSIBLE GALVANIC ACTION BY ISOLATING DISSIMILAR METALS.  
 B. TEST AND RECORD AVAILABLE DOMESTIC WATER PRESSURE IN STATIC AND DYNAMIC CONDITIONS FOR DYNAMIC TESTING RECORD PRESSURE AND FLOW RATE IN GALLONS PER MINUTE. TRANSMIT THIS INFORMATION TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.  
 C. PROVIDE ALL TESTS SPECIFIED HEREINAFTER AND AS OTHERWISE REQUIRED. PROVIDE ALL TEST EQUIPMENT, INCLUDING TEST PUMPS, GAUGES, INSTRUMENTS AND OTHER EQUIPMENT REQUIRED. PRESSURE GAUGES USED SHALL BE GRADUATED IN INCREMENTS NOT GREATER THAN 5 POUNDS PER SQUARE INCH. NO PLUMBING OR DRAINAGE SYSTEM OR PART THEREOF SHALL BE COVERED, CONCEALED, OR PUT INTO USE UNLESS IT HAS BEEN SPECIFIED. CONDUCT ALL TESTS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE, AND OBTAIN THE NECESSARY JURISDICTIONAL AUTHORITY INSPECTIONS.  
 D. APPLY A WATER TEST TO THE WASTE, VENT SYSTEMS WHETHER IN ITS ENTIRETY OR IN SECTIONS. IF APPLIED TO THE ENTIRE SYSTEM, TIGHTLY CLOSE ALL OPENINGS IN THE PIPING EXCEPT THE HIGHEST OPENING, AND FILL THE SYSTEM WITH WATER TO THE POINT OF OVERFLOW. IF THE SYSTEM IS TESTED IN SECTIONS, TIGHTLY PLUG EACH OPENING EXCEPT FOR THE HIGHEST OPENING OF THE SECTION UNDER TEST, AND FILL EACH SECTION WITH WATER, BUT TEST WITH NO LESS THAN A 10' HEAD OF WATER. IN TESTING SUCCESSIVE SECTIONS, TEST AT LEAST THE UPPER 10' OF THE NEXT PRECEDING SECTION SO THAT NO JOINT OR PIPE IN THE BUILDING (EXCEPT THE UPPERMOST 10' OF THE SYSTEM) SHALL HAVE BEEN SUBMITTED TO A TEST OF LESS THAN A 10' HEAD OF WATER. KEEP WATER IN THE SYSTEM OR IN THE PORTION UNDER TEST FOR AT LEAST 24 HOURS BEFORE INSPECTION STARTS, WITH THE SYSTEM TIGHT AT ALL POINTS.  
 E. DOMESTIC WATER SYSTEM SHALL BE TESTED AND PROVED TIGHT UNDER A PRESSURE OF NOT LESS THAN 150 PSI. PIPING MUST STAND THE TEST FOR A PERIOD OF 24 HOURS WITHOUT LEAKING.  
 F. CHLORINATION OF THE DOMESTIC COLD AND HOT WATER PIPING SYSTEMS IN ACCORDANCE WITH STANDARD TESTING PROCEDURES AND LOCAL HEALTH DEPARTMENT REQUIREMENTS. TESTING BY A FIRM SUCH AS BENNET-MARINE OR EQUAL. SUBMIT CERTIFICATE OF SATISFACTORY TEST RESULTS.  
 G. UPON COMPLETION OF TESTING, CERTIFY TO THE ARCHITECT, IN WRITING THAT THE SPECIFIED TESTS HAVE BEEN PERFORMED AND THAT THE INSTALLATION COMPLIES WITH THE SPECIFIED REQUIREMENTS.

3.03 PIPING INSTALLATION  
 A. MAKE CHANGES IN SIZE OF PIPE WITH REDUCING FITTINGS; BUSHINGS WILL NOT BE PERMITTED EXCEPT FOR BELL SHAPED COPPER BUSHINGS.  
 B. INSTALL DIELECTRIC INSULATING UNIONS IN WATER PIPING BETWEEN COPPER PIPING AND FERROUS PIPING OR EQUIPMENT - EPCCO, OR EQUAL.  
 C. INSTALL EXPOSED POLISHED CHROME CONNECTIONS FROM FIXTURES OR EQUIPMENT WITH SPECIAL CARE. SHOW NO TOOL MARKS OR THREADS AT FITTINGS.  
 D. CAP OPENINGS IN PIPING DURING CONSTRUCTION.  
 E. PROVIDE 85% RED BRASS PIPE IPS, IN CONNECTION TO FAUCETS, FLUSH VALVES, HOSE BIBBS OR SIMILAR ITEMS REQUIRING RIGID PIPING. EXTEND BRASS PIPE FROM FIXTURE TO POINT WHERE PIPING CAN BE SECURELY FASTENED TO BUILDING CONSTRUCTION. ALL EXPOSED PIPING AND STOP VALVES IN CONNECTION TO FIXTURES SHALL BE CHROME PLATED BRASS.  
 F. INSTALL UNIONS ADJACENT TO VALVES AND WHERE NECESSARY TO FACILITATE DISASSEMBLY OF PIPING.  
 G. ESCUTCHEONS: FIT EXPOSED PIPES PASSING THROUGH FLOORS, WALLS OR CEILINGS WITH ESCUTCHEONS. MANUFACTURE SPECIAL SIZES OF ESCUTCHEONS FROM STEEL AND PRIME COAT SAME, CUT IN ROUND, RECTANGULAR OR SQUARE SPACE TO PROVIDE A CLEAN APPEARANCE ACCEPTABLE TO THE ARCHITECT.  
 H. SUPPORT PIPING INDEPENDENTLY OF EQUIPMENT TO WHICH IT IS CONNECTED.  
 I. MAKE COPPER SOLDER JOINTS WITH 95/5 SOLDER, OR SILFOS; CLEAN SURFACES TO BE JOINED FREE OF OIL, GREASE, RUST OR OXIDES AND APPLY FLUX TO EACH JOINT BEFORE HEATING ASSEMBLY.  
 J. ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL OTHER EQUIPMENT FURNISHED UNDER OTHER DIVISIONS, REQUIRING PLUMBING CONNECTIONS.



REVISIONS		ISSUES
NO.	DATE	DESCRIPTION

PROJECT: 12/15/2013 BUILDING PERMIT SET

35th @ School  
 Oakland, CA 94619

CONSULTANTS:

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SHEET DESCRIPTION:  
**PLUMBING SPECIFICATION**

JOB NUMBER: 0714  
 SCALE: NONE  
 DATE: 12/12/13  
 DRAWN BY: MV  
 CHECKED BY: RT  
 CAD TITLE:  
 SHEET NUMBER:  
**P0.03**  
 OF SHEETS

ARCHITECTURE

**PHILIP BANTA & ASSOCIATES**

6050 HOLLIS STREET  
EMERYVILLE, CALIFORNIA 94608

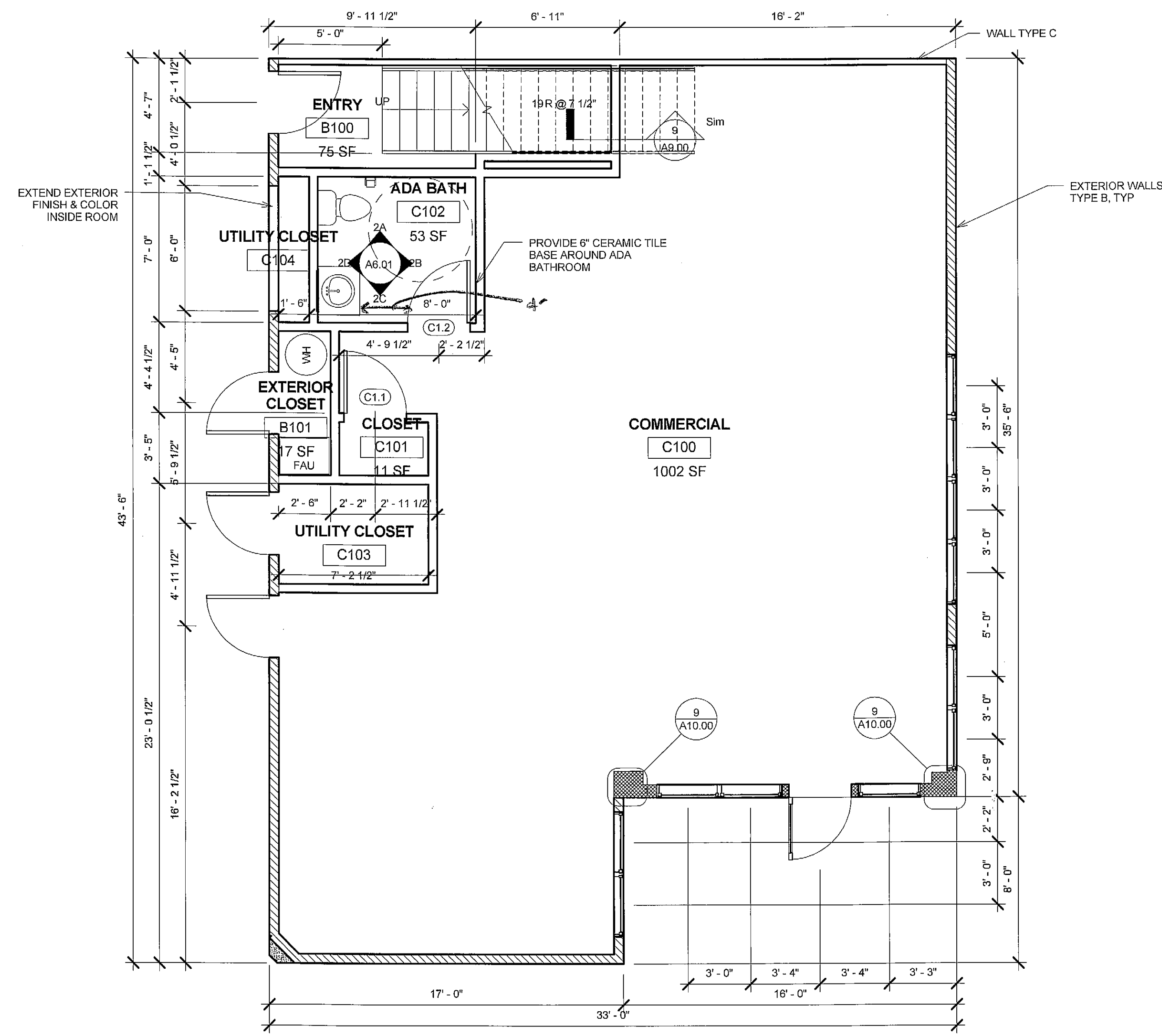
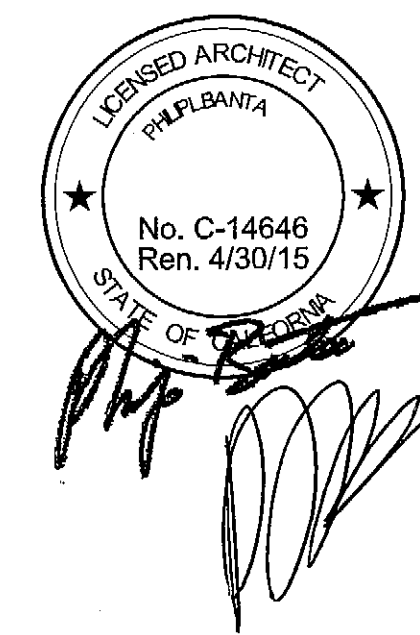
TEL: 510.654.3255  
FAX: 510.654.3259  
www.bantadesign.com

REVISIONS:  ISSUES:

No.	Description	Date
1/	1ST PLAN CHECK REVIEW	01/14/14
1/	BUILDING PERMIT	12/12/13

PROJECT:  
**35th @ School**  
Oakland, CA 94619

**APPROVED**  
CITY OF OAKLAND  
BUILDING SERVICES  
PLANNING SECTION  
FOR COMPLIANCE WITH  
CALIFORNIA BUILDING  
CODES. PERMITS  
NEED APPROVAL  
FOR THE  
CITY OF OAKLAND  
SECTION 105.4.3  
& IRC SECTION R105.6  
SURVEY (REVIEW ONLY)  
PLOT PLAN REVIEW  
PARKING/LAYOUT  
ZONING AND  
SECTION CONTROL  
REPORT ON FILE  
ARCH. PLUMB.  
CHECKED



1 UNIT B 1ST FLOOR  
1/4" = 1'-0"

BUILDING PLAN LEGEND	
	CONCRETE
	CERAMIC TILE
	CARPET
	LAMINATE WOOD FLOORING
	CEILING DROPPED TO 8'-0"
	2x4 STUD WALL
	2x6 STUD WALL
	2x8 STUD WALL

- BUILDING PLAN NOTES**
1. FOR WALL TYPES REFER PAGE 9.00
  2. ALL INTERIOR WALLS TO BE WALL TYPE A UNLESS OTHERWISE NOTED
  3. EXTERIOR DOOR TAGS & WINDOW TAGS ARE LOCATED IN BUILDING PLANS A.1 SERIES
  4. SEE SHEET A7.00 FOR ROOM FINISH SCHEDULE

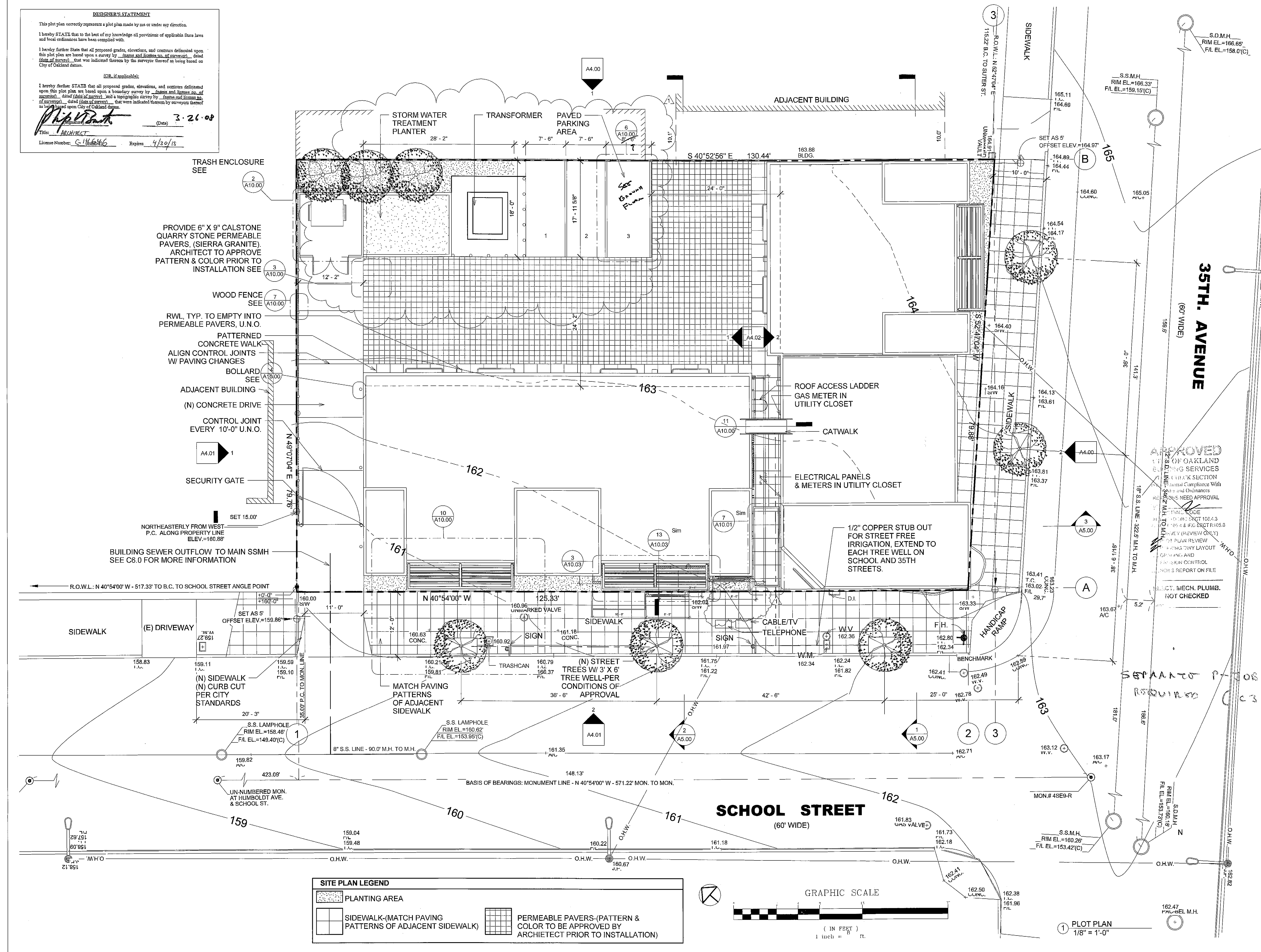
SHEET DESCRIPTION:  
**UNIT B PLANS  
(COMMERCIAL)**

PROJECT NUMBER:	0714
DATE:	01/14/14
DRAWN BY:	JH/JY
CHECKED BY:	PB
SCALE:	1/4" = 1'-0"

**A2.10**

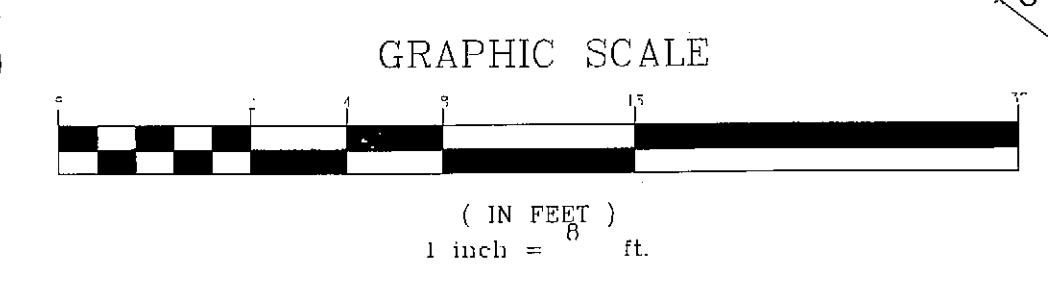


**DESIGNER'S STATEMENT**  
 This plot plan correctly represents a plot plan made by me or under my direction.  
 I hereby STATE that to the best of my knowledge all provisions of applicable State laws and local ordinances have been complied with.  
 I hereby further state that all proposed grades, elevations, and contours delineated upon this plot plan are based upon a survey by \_\_\_\_\_ dated \_\_\_\_\_, and \_\_\_\_\_ dated \_\_\_\_\_, that was indicated therein by the surveyor named as being based on City of Oakland datum.  
 OR, if applicable:  
 I hereby further STATE that all proposed grades, elevations, and contours delineated upon this plot plan are based upon a boundary survey by \_\_\_\_\_ dated \_\_\_\_\_, and \_\_\_\_\_ dated \_\_\_\_\_, that was indicated therein by the surveyor named as being based on City of Oakland datum.  
 License Number: C-14846 Expires 4/30/15  
 Date: 3-21-08



**SITE PLAN LEGEND**

	PLANTING AREA		PERMEABLE PAVERS-(PATTERN & COLOR TO BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION)
	SIDEWALK-(MATCH PAVING PATTERNS OF ADJACENT SIDEWALK)		

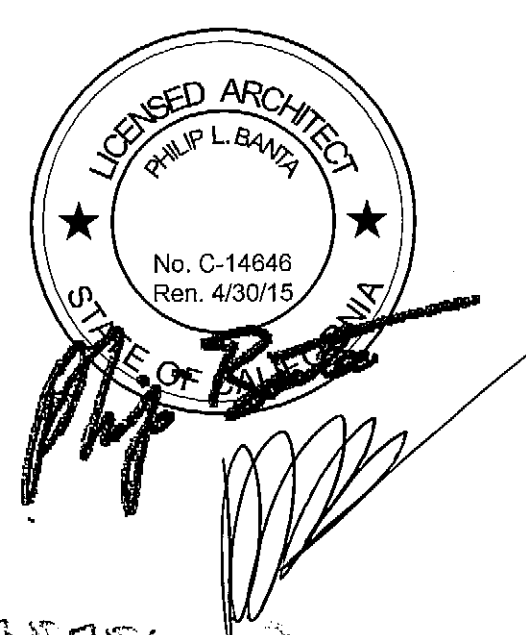


**ARCHITECTURE**  
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REVISIONS:  ISSUES:

No.	Description	Date
1	1ST PLAN CHECK REVIEW	01/14/14
1	BUILDING PERMIT	12/12/13

**35th @ School**  
 Oakland, CA 94619



**SHEET DESCRIPTION:**  
**PLOT PLAN**

PROJECT NUMBER: 0714  
 DATE: 01/14/14  
 DRAWN BY: JH/JY  
 CHECKED BY: PB  
 SCALE: 1/8" = 1'-0"

**A1.00**

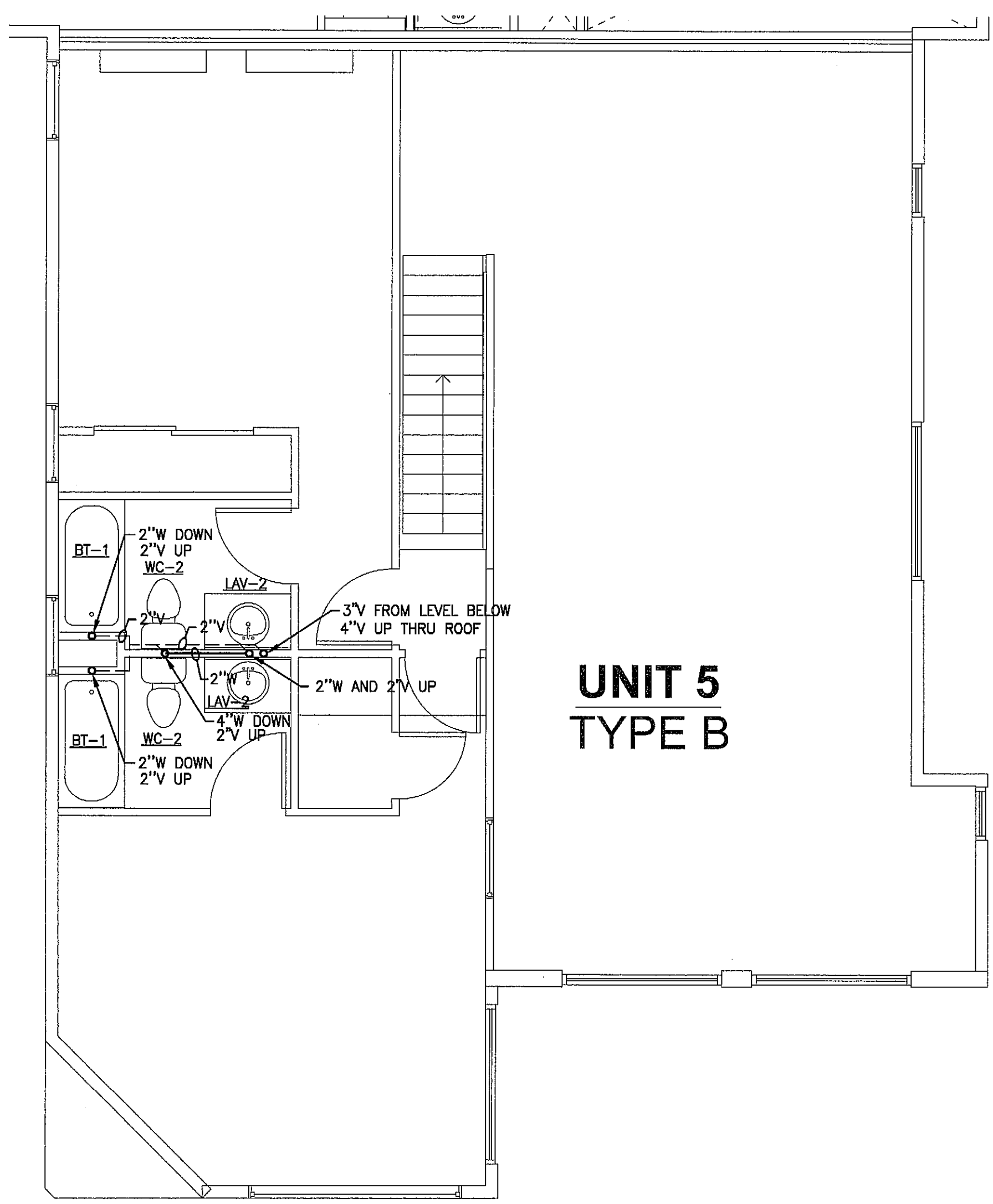




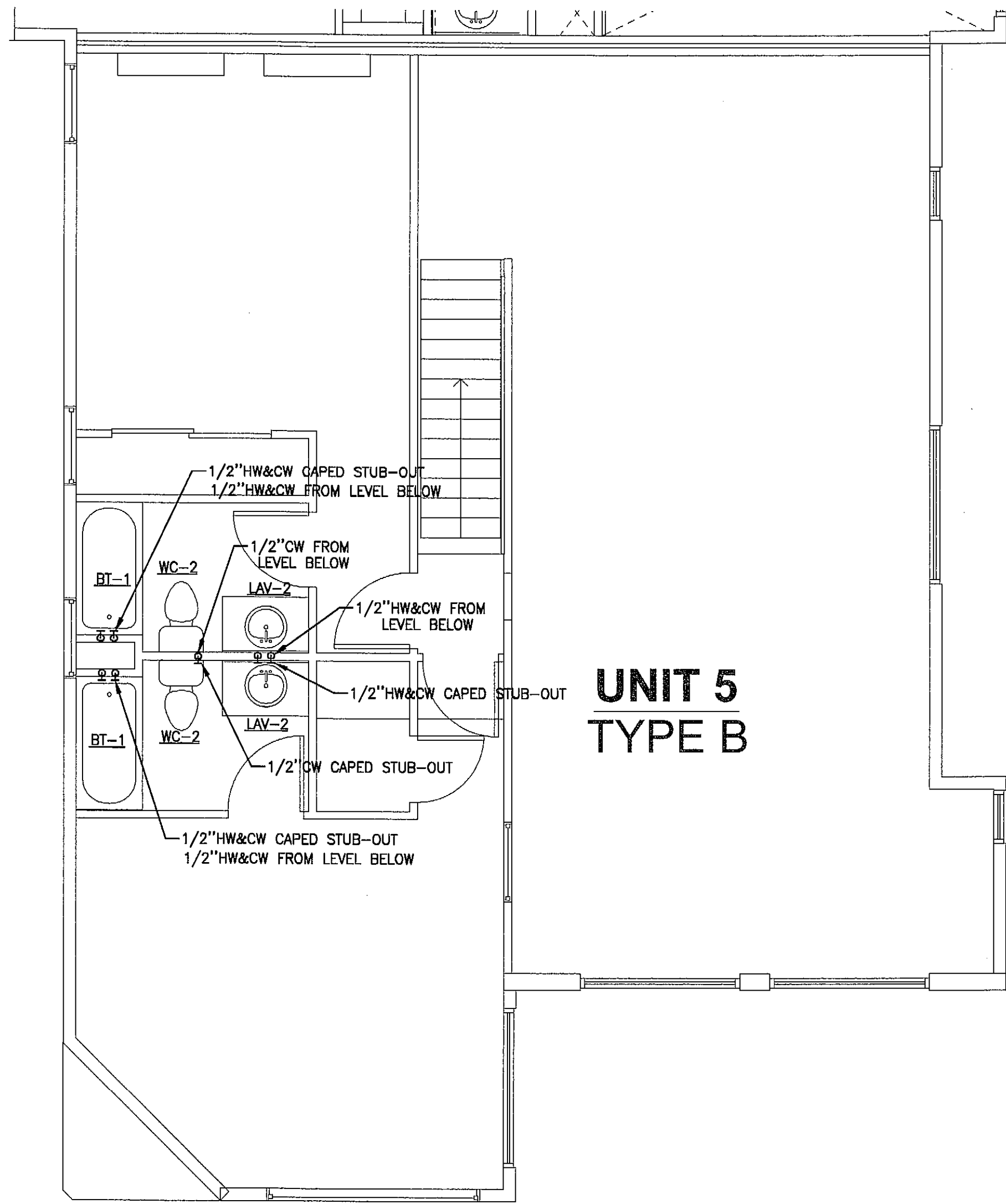




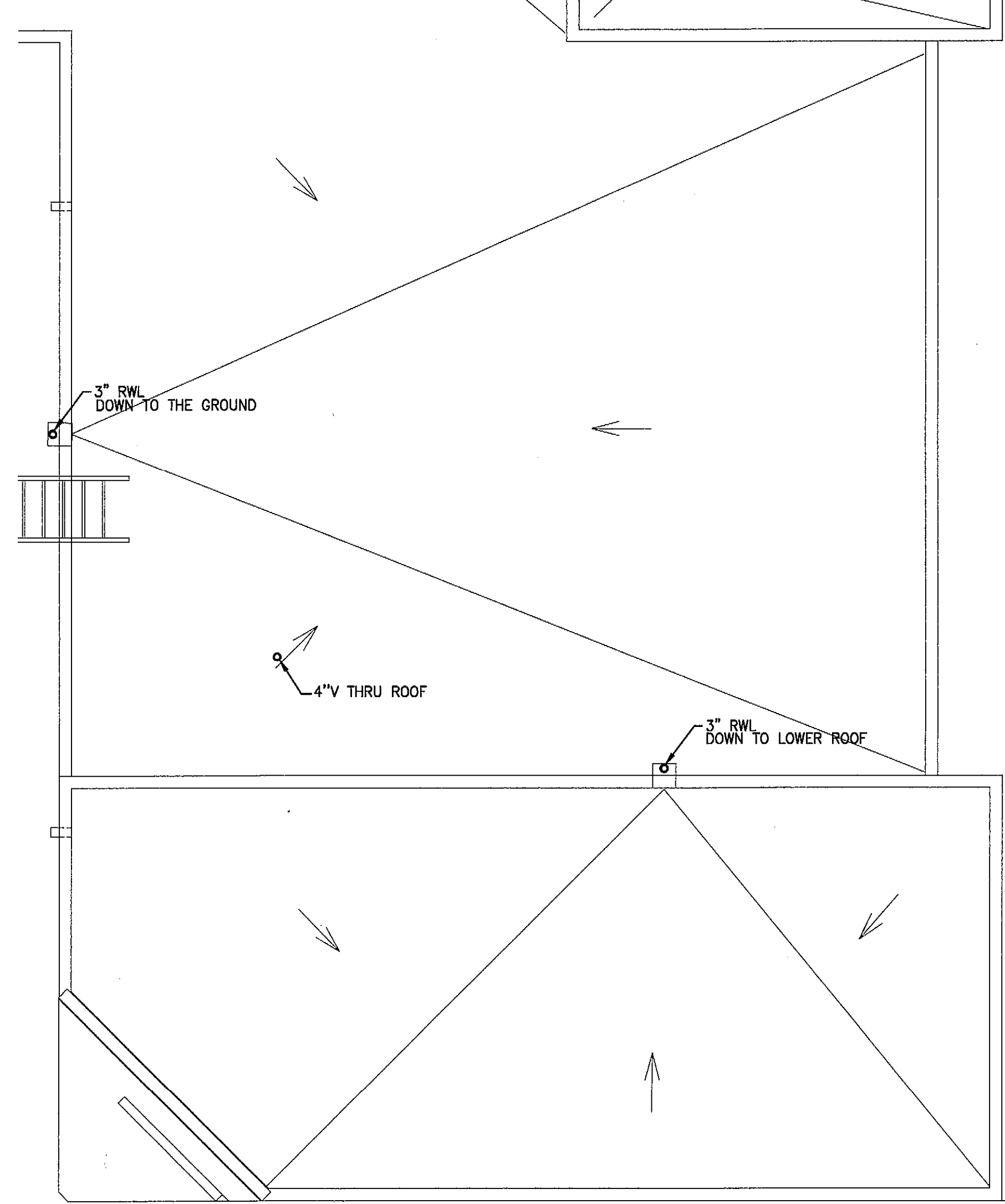




① UNIT 5, TYPE B - PLUMBING WASTE AND VENT 3RD FLOOR PLAN  
1/4" = 1'-0"



② UNIT 5, TYPE B - PLUMBING SUPPLY 3RD FLOOR PLAN  
1/4" = 1'-0"



③ UNIT 5, TYPE B - PLUMBING ROOF PLAN  
1/4" = 1'-0"

NO.	DATE	DESCRIPTION

35th @ School  
Oakland, CA 94619

CONSULTANTS:

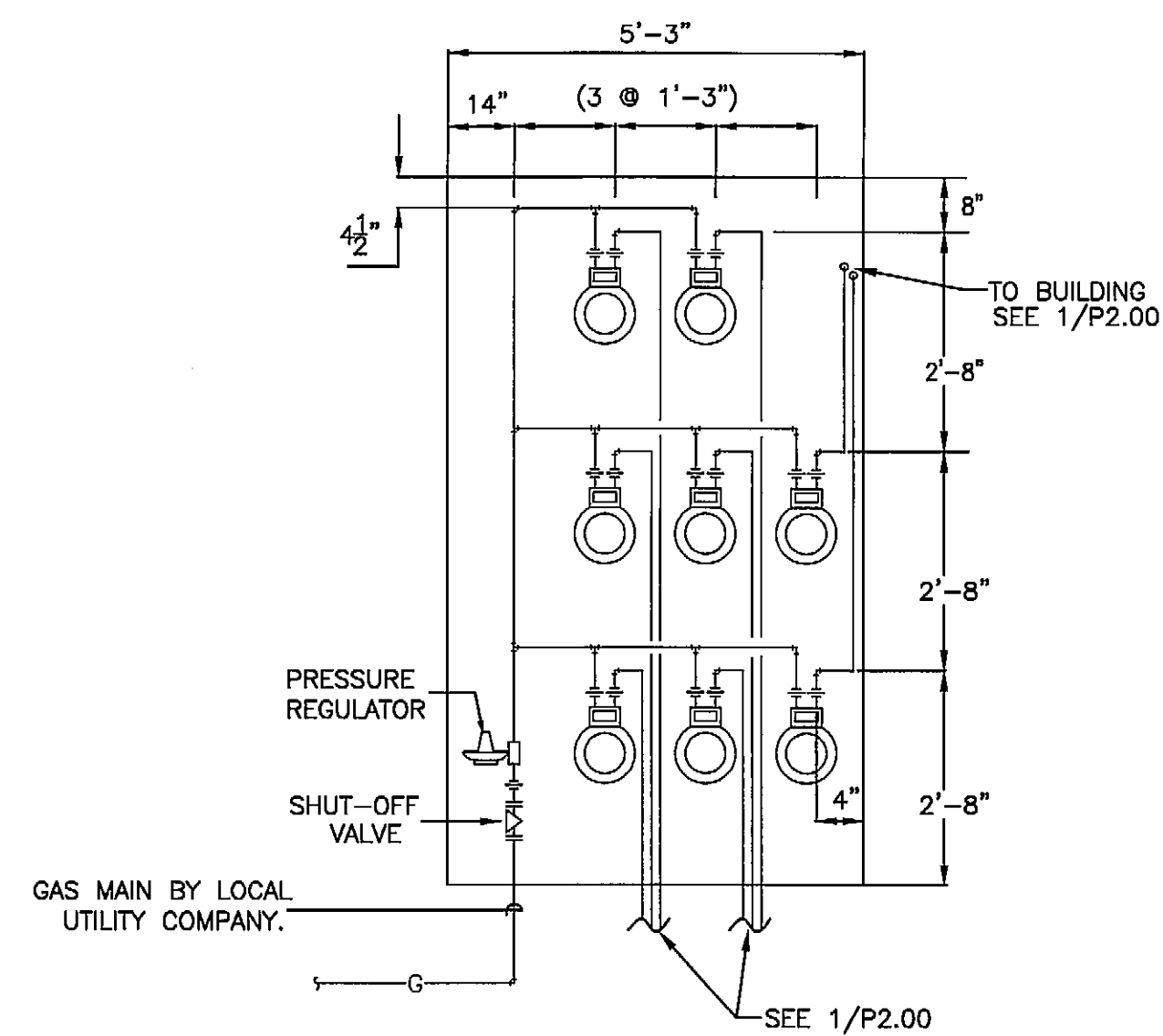


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SHEET DESCRIPTION:  
**UNIT 5, TYPE B  
PLUMBING 3RD  
FLOOR PLANS AND  
ROOF PLAN**

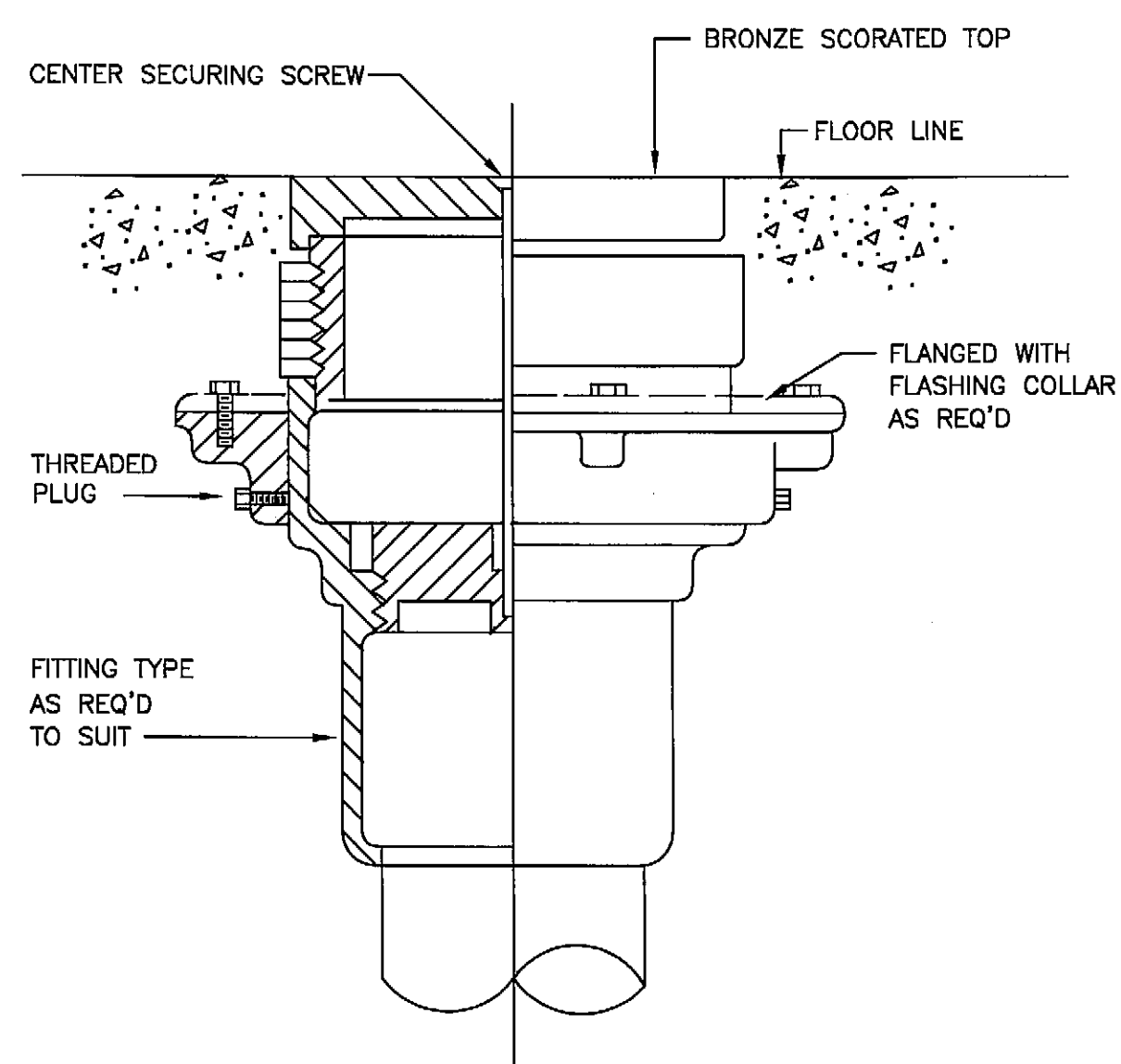
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DATE:	12/12/13
DRAWN BY:	MV
CHECKED BY:	RT
CAD TITLE:	
SHEET NUMBER:	

**P2.05**  
OF SHEETS



**GAS METER INSTALLATION**

N.T.S. 7



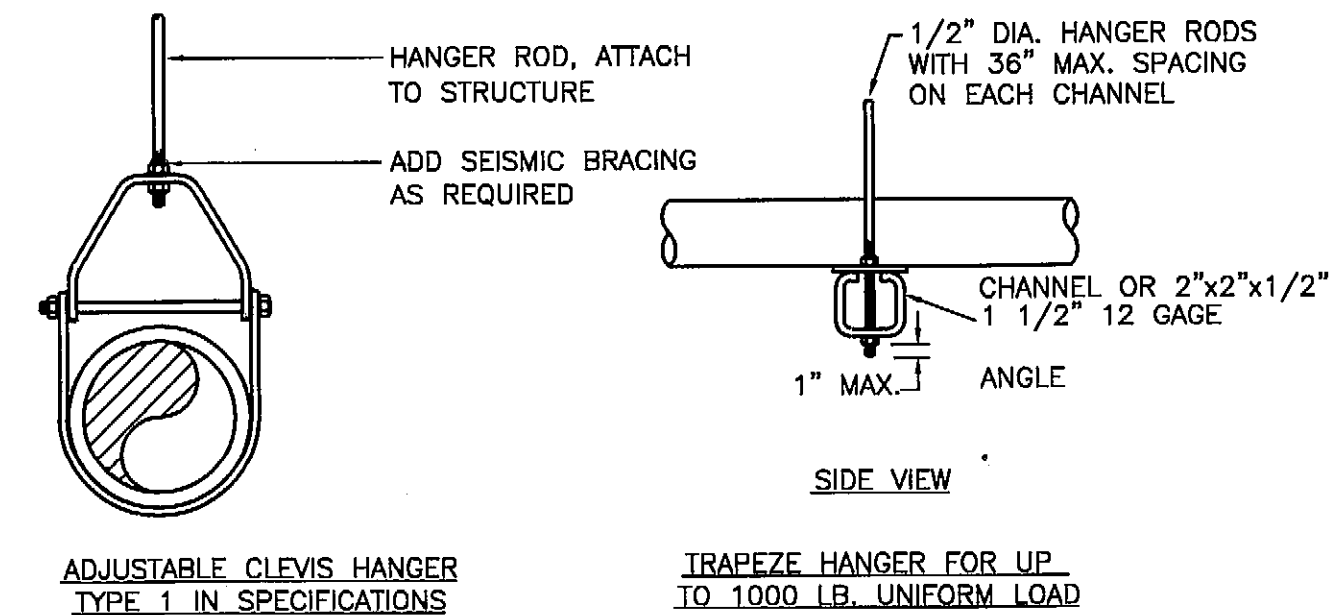
**FLOOR CLEANOUT DETAIL**

N.T.S. 4

TYPICAL PIPE HANGERS

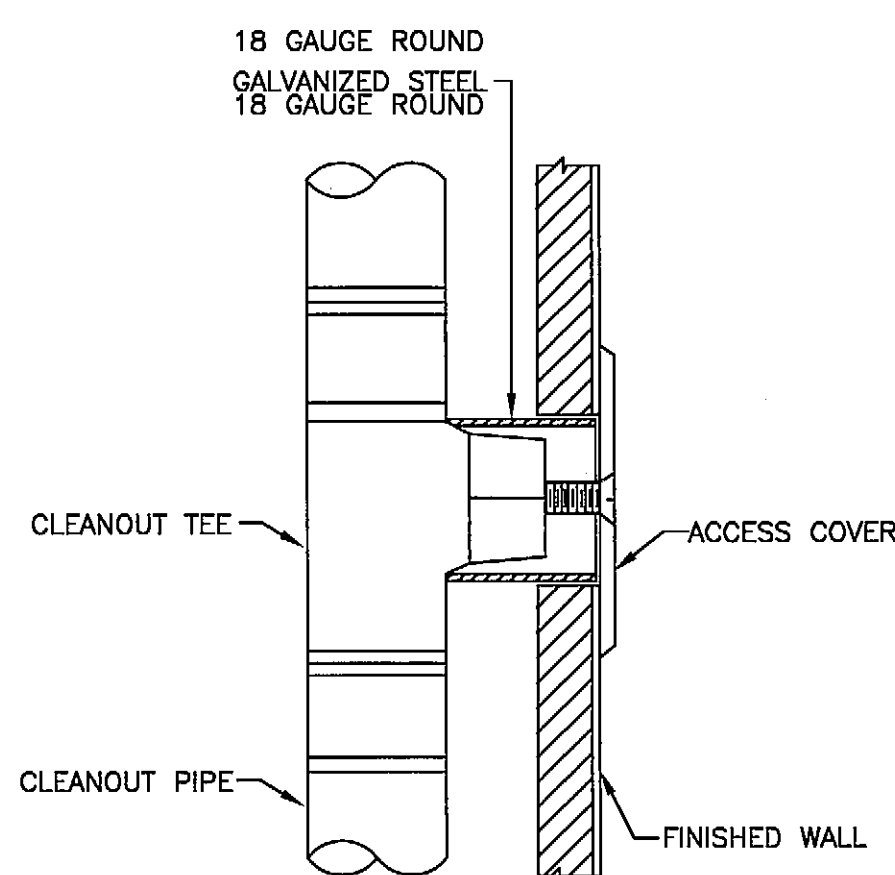
NOM. SIZE	THRU 1	1	1 1/4	1 1/2	2	2 1/2	3	4
PIPE	7 FT	7	7	9	10	11	12	14
TUBING	5 FT	6	7	8	8	9	10	12

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



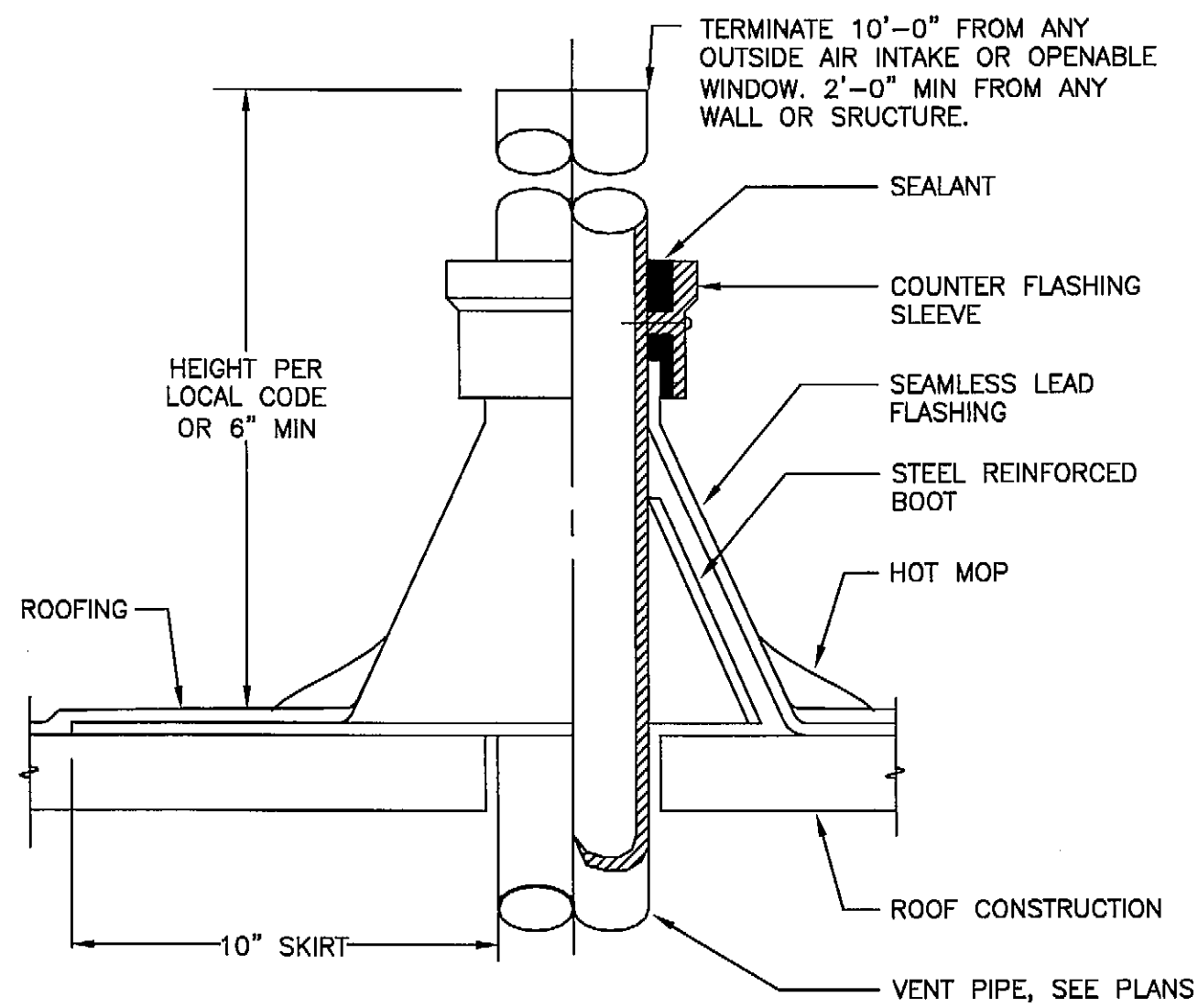
**PIPE HANGER DETAIL**

N.T.S. 1



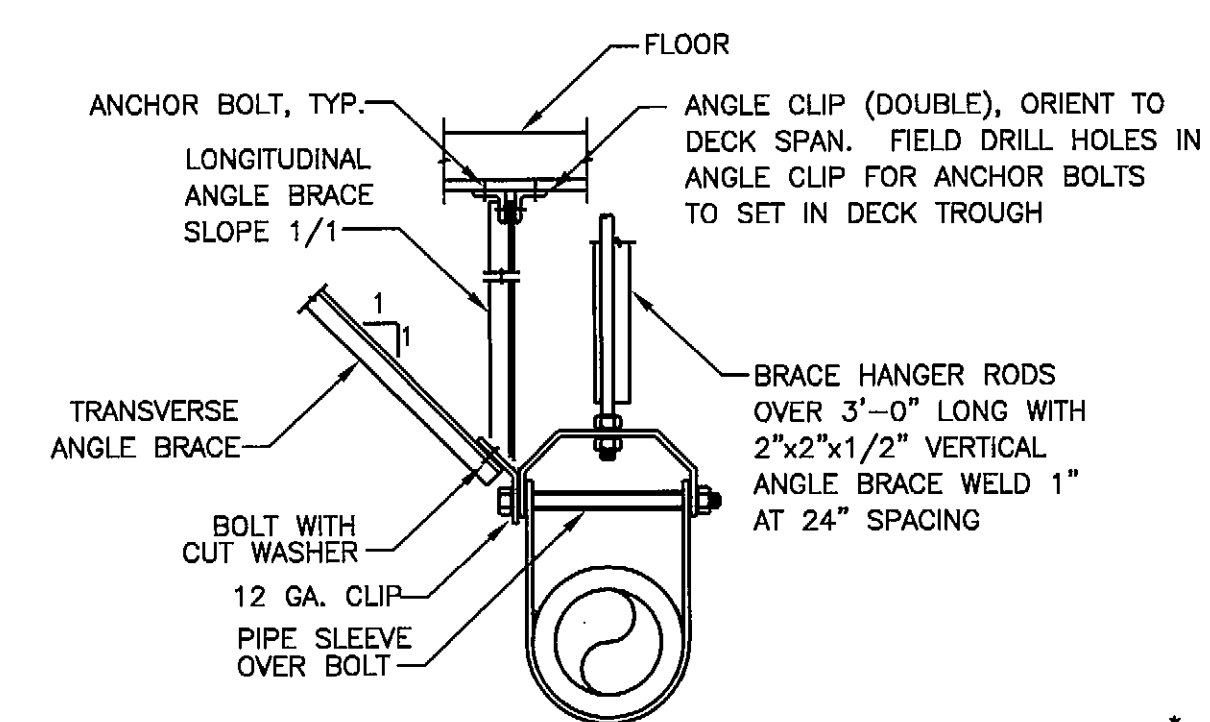
**WALL CLEANOUT DETAIL**

N.T.S. 8



**VENT THRU ROOF DETAIL**

N.T.S. 5



PIPE SIZE	ANGLE BRACE *	BOLT TO ANGLE	ANGLE CLIP **	ANCHOR BOLTS OR INSERTS***
2"	2"x2" 16 GA.	1/2"	3"x3"x1/2"x1'-4"	1/2
3, 4	2"x2" 16 GA.	1/2"	3"x3"x1/2"x1'-4"	1/2
5, 6	2.5"x2.5" 16 GA.	1/2"	5"x3"x1/2"x1'-4"	1/2
8	3"x3" 12 GA.	1/2"	2-5x3x1/2x1'-4"	2
10	3"x3" 12 GA.	1"	2-5x3x1/2x1'-4"	2

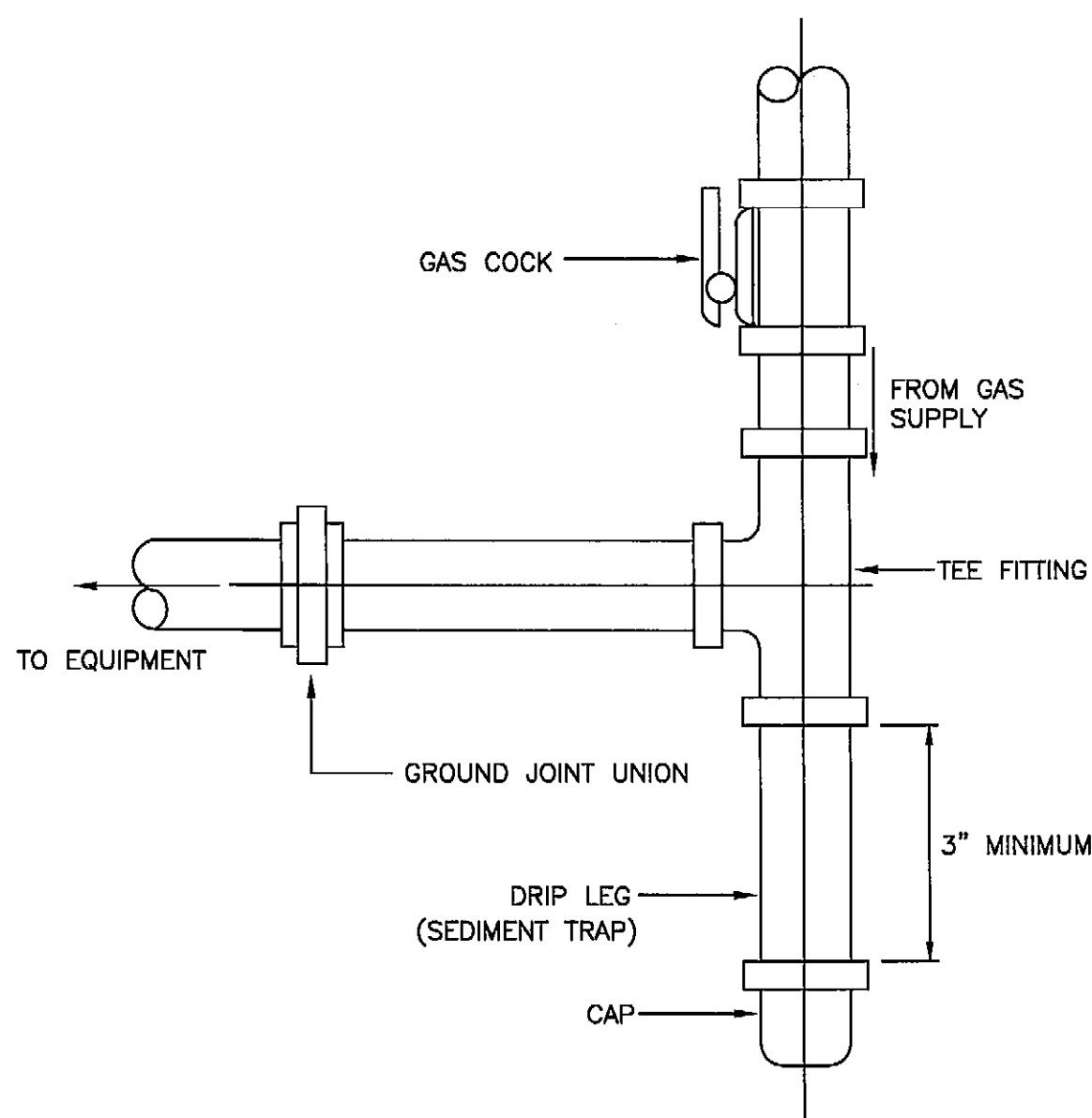
\* 2" x 2" x 12 GA. CHANNEL MAY BE USED

\*\* BENT PLATE OF EQUAL THICKNESS MAY BE SUBSTITUTED FOR LONGITUDINAL ANGLE CLIP TO FACILITATE ANCHORAGE TO SLAB TROUGHS. PROVIDE EQUAL NUMBER OF ANCHOR BOLTS TO THAT SHOWN.

\*\*\* PROVIDE MINIMUM EMBEDMENT OF 1 1/2" ABOVE TOP OF METAL DECK FOR ALL ANCHOR BOLTS.

**PIPE SUPPORT DETAIL**

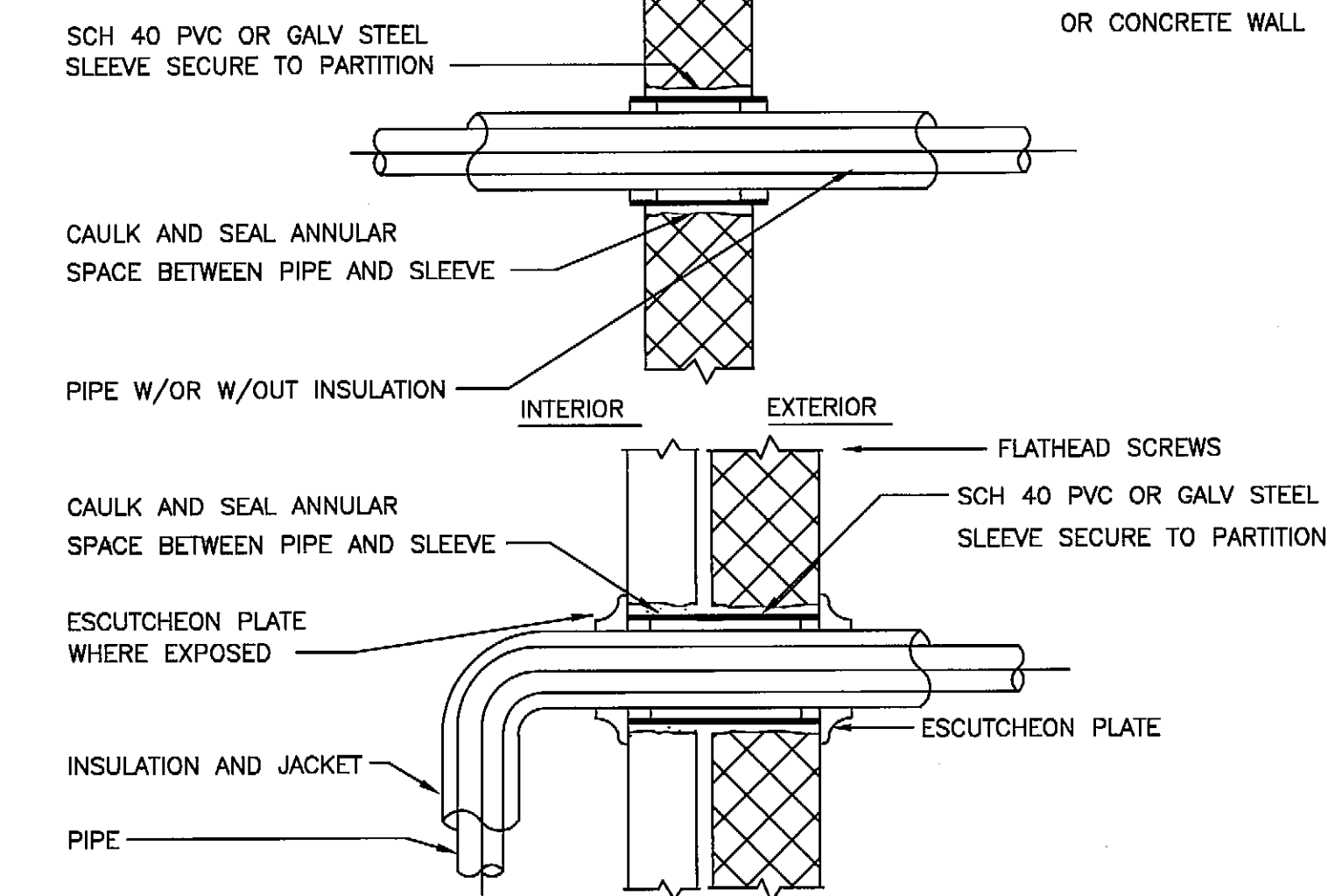
N.T.S. 2



**GAS PIPE CONNECTION DETAIL**

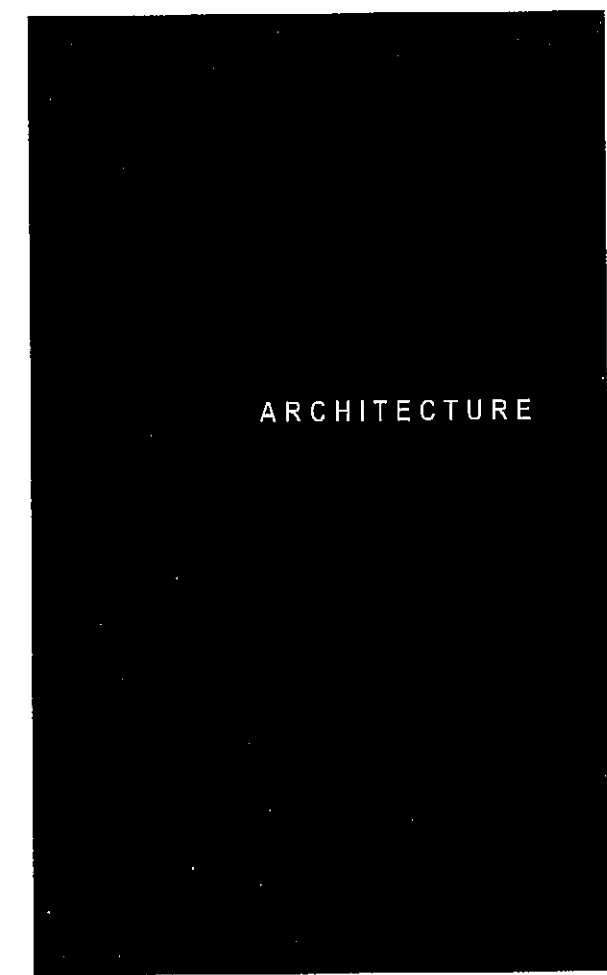
N.T.S. 6

NOTE: WHERE PIPING IS EXPOSED AT FINISHED WALLS, FLUSH MOUNT SLEEVE AND PROVIDE ESCUTCHEON PLATE.



**PIPE PENETRATION THRU WALLS DETAIL**

N.T.S. 3




REVISIONS:  ISSUES:

NO.	DATE	DESCRIPTION

12/13/2013 BUILDING PERMIT SET

35th @ School  
Oakland, CA 94619

CONSULTANTS:



**ACIES ENGINEERING**  
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SHEET DESCRIPTION:  
**PLUMBING DETAILS**

JOB NUMBER:	0714
SCALE:	AS SHOWN
DATE:	12/12/13
DRAWN BY:	MV
CHECKED BY:	RT
CAD TITLE:	
SHEET NUMBER:	

**P6.01**

OF SHEETS

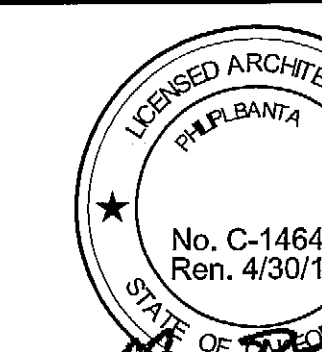
**NOT USED**

N.T.S. 9

**REDBUD DESIGN**  
 3739 16TH STREET  
 SAN FRANCISCO, CA  
 707-799-6525

**PLANTING PLAN**

**3101 35th AVE.**  
 OAKLAND, CA 94619



NORTH

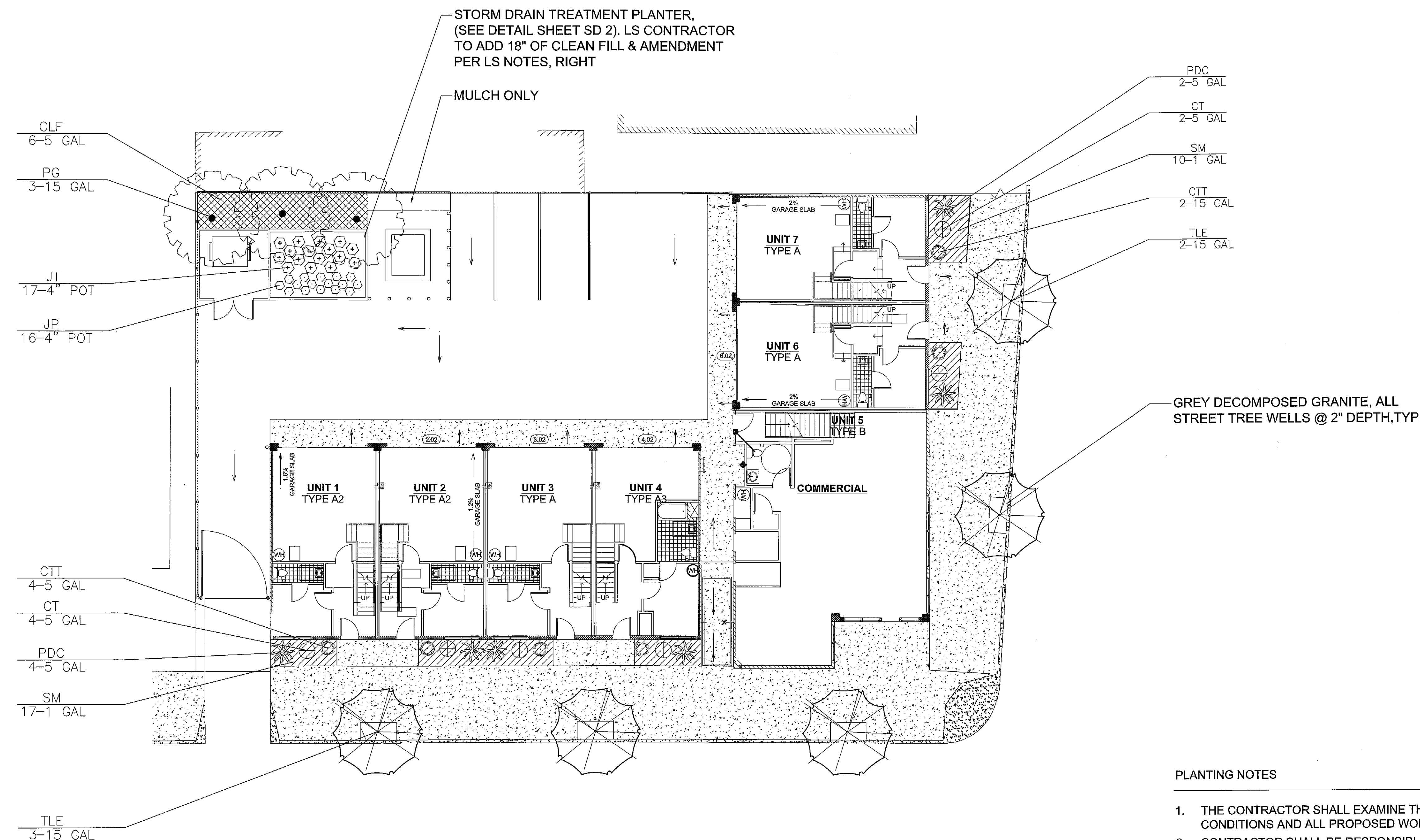
SCALE: 1" = 10'-0"

DATE: JANUARY 20, 2014

DRAWN BY: K.N.

NEW SHEET

SHEET: **L1.0**

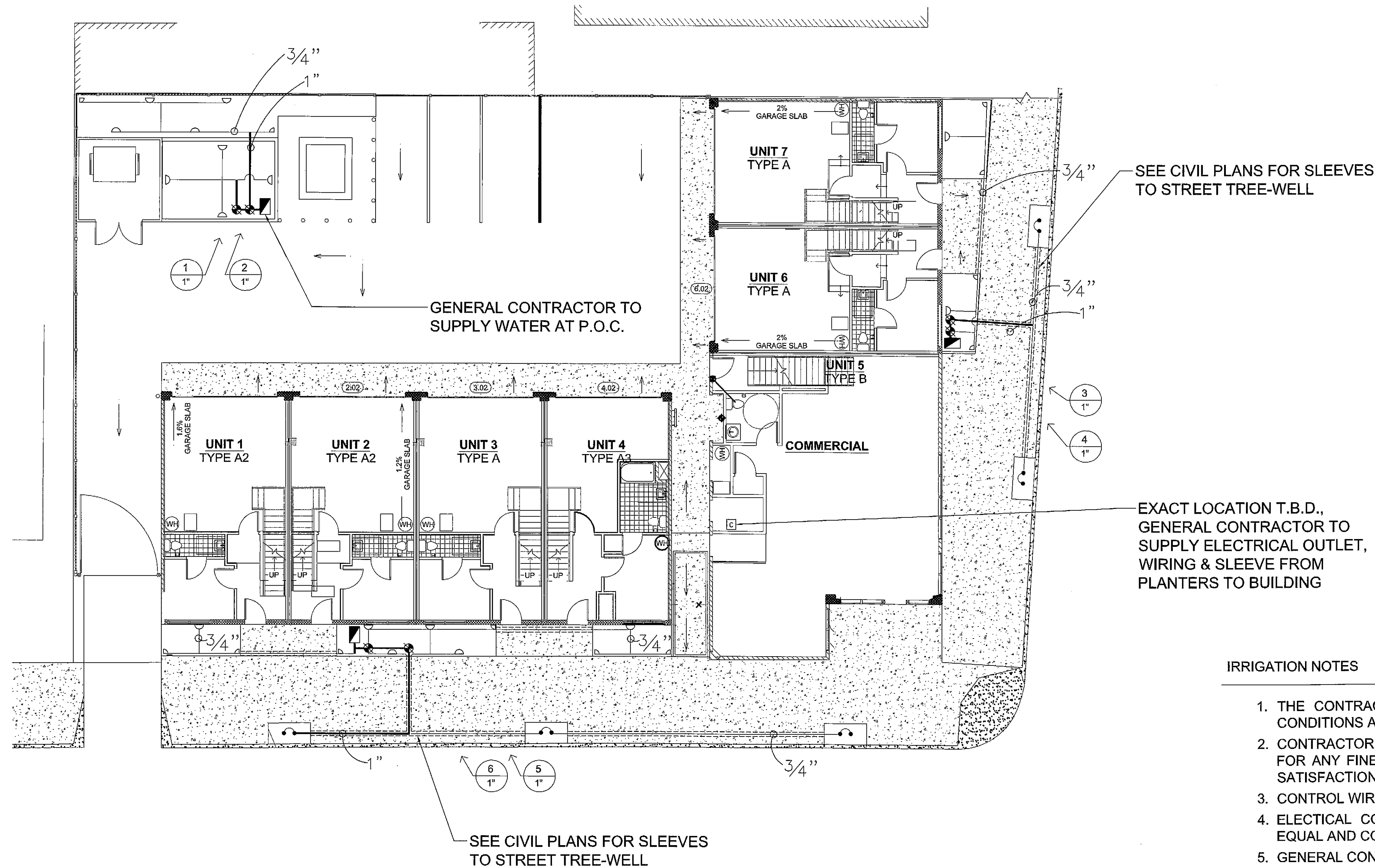


**PLANTING NOTES**

1. THE CONTRACTOR SHALL EXAMINE THE SITE CAREFULLY, NOTING ALL THE EXISTING CONDITIONS AND ALL PROPOSED WORK ON THE PLANS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH GRADES IN ALL PLANTING AREAS AND FOR ANY FINE GRADING NECESSARY FOR SURFACE DRAINAGE AND UNIFORMITY TO THE SATISFACTION OF THE LANDSCAPE DESIGNER.
3. ALL TREES AND SHRUBS SHALL BE FIELD SPOTTED OR STAKED BY CONTRACTOR. CONTRACTOR SHALL NOTIFY LANDSCAPE DESIGNER TO REVIEW AND APPROVE FINAL LOCATIONS PRIOR TO PLANTING. (ALLOW 24 HOURS NOTICE)
4. FILL ALL TREE PLANTING HOLES WITH WATER AND ALLOW TO DRAIN FOR 4 HOURS. CONTRACTOR SHALL NOTIFY LANDSCAPE DESIGNER OF ANY HOLES NOT DRAINING FOR MITIGATION MEASURES PER SOILS REPORT.
5. PROVIDE BASINS AROUND ALL TREES AND SHRUBS. STAKE ALL TREES PER DETAIL PLAN.
6. PLANT CROWNS 1" MIN. ABOVE GRADE FOR ALL TREES AND SHRUBS.
7. HOLD MULCH 4" AWAY FROM TRUNKS OF TREES AND SHRUBS CROWNS TO PREVENT ROT. 50% SOIL AMENDMENT THOROUGHLY MIXED INTO THE TOP 12" OF SOIL AROUND EACH PLANT. SOIL AMENDMENT FOR ALL PLANTED AREAS SHALL BE WONDER GROW ORGANIC COMPOST AVAILABLE FROM AMERICAN SOILS OF RICHMOND, CA. [www.americansoil.com](http://www.americansoil.com) OR EQUAL.
8. TOP DRESS ALL AREAS WITH 2" LAYER OF MULCH. MULCH SHALL BE FOREST FLOOR BARK AS AVAILABLE FROM AMERICAN SOIL OF RICHMOND CA. ALL DRIP IRRIGATION SUPPLY LINE TUBING TO BE STAKED AND COMPLETELY HIDDEN UNDER MULCH.
9. CONTRACTOR IS RESPONSIBLE FOR ALL PLANT COUNTS PER PLAN. SHOULD DISCREPANCIES EXIST BETWEEN PLAN AND PLANT LIST THE PLAN SHALL GOVERN.
10. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF ALL PLANT MATERIAL FROM THE TIME PLANTS ARE DELIVERED UNTIL FINAL ACCEPTANCE OF LANDSCAPE INSTALLATION. ONGOING MAINTENANCE SHALL BE NEGOTIATED BETWEEN CONTRACTOR AND OWNER. ALL TREES SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE. ALL OTHER PLANTS SHALL BE GUARANTEED FOR A PERIOD OF 6 MONTHS FROM FINAL ACCEPTANCE.
11. LANDSCAPE DESIGNER HAS THE RIGHT TO REJECT ALL DAMAGED OR UNSUITABLE PLANT MATERIAL OR PLANT MATERIAL THAT IS NOT IN A HEALTHY AND THRIVING CONDITION.

**PLANT LIST**

TREES	CODE	SCIENTIFIC NAME	COMMON NAME	SIZE	QTY	NOTE	SPACING
	CTT	CUPRESSUS S. 'TINY TOWERS'	DWARF ITALIAN CYPRESS	15 GAL	6	NO STAKE	
	PG	PODOCARPUS GRACILIOR	AFRICAN FERN PINE	15 GAL	3	LOW BRANCHING	10' OC
	TLE	TRISTANIA LAURINA ELEGANS	WATER GUM	15 GAL	5	STANDARD	
SHRUB	CODE	SCIENTIFIC NAME	COMMON NAME	SIZE	QTY	NOTE	SPACING
	CT	CHONDROPETALUM TECTORUM	SMALL CAPE RUSH	5 GAL	6		72" OC
	PDC	PHORMIUM 'DUSKY CHIEF'	NEW ZEALAND FLAX	5 GAL	6		
GROUND COVERS	CODE	SCIENTIFIC NAME	COMMON NAME	SIZE	QTY	NOTE	SPACING
	CLF	COTONEASTER 'LOWFAST'	BEARBERRY COTONEASTER	5 GAL	6		72" OC
	SM	SENICIO MANDRALISCAE	KLEINIA	1 GAL	27		30" OC
STORMWATER PLANTER	CODE	SCIENTIFIC NAME	COMMON NAME	SIZE	QTY	NOTE	SPACING
	JP	JUNCUS PATENS	CALIFORNIA GREY RUSH	4" POT	16		24" OC
	JT	JUNCUS TEXTILIS	BASKET RUSH	4" POT	17		36" OC



IRRIGATION NOTES

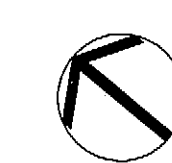
1. THE CONTRACTOR SHALL EXAMINE THE SITE CAREFULLY, NOTING ALL THE EXISTING CONDITIONS AND ALL PROPOSED WORK ON THE PLANS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH GRADES IN ALL PLANTING AREAS AND FOR ANY FINE GRADING NECESSARY FOR SURFACE DRAINAGE AND UNIFORMITY TO THE SATISFACTION OF THE LANDSCAPE DESIGNER.
3. CONTROL WIRE SHALL BE #14 SOLID COPPER.
4. ELECTRICAL CONNECTIONS SHALL BE MADE WITH SPEARS DRI-SLICE CONNECTORS OR EQUAL AND COPPER CRIMP SLEEVES AND SEALER.
5. GENERAL CONTRACTOR TO SUPPLY 120VOLT SERVICE TO CONTROLLER STUB-OUT.
6. RECOMMEND THAT THE IRRIGATION CONTRACTOR USE A SMART CONTROLLER WITH MULTIPLE START TIMES FOR ALL SPRAY SYSTEMS TO PREVENT POTENTIAL RUN-OFF.
7. IRRIGATION CONTRACTOR TO INTALL AN AUTOMATIC RAIN SHUT-OFF TO EACH CONTROLLER.
8. PIPE AND WIRE CHASES SHALL HAVE THE FOLLOWING SOIL COVER: MAINLINE SHALL HAVE 18" OF COVER
9. LATERAL LINES SHALL HAVE 12" OF COVER.
10. SUB-LATERAL LINES SHALL HAVE 4" OF COVER.
11. CONTROL WIRE SHALL HAVE 16" OF COVER.
12. EACH REMOTE CONTROL VALVE SHALL BE PLACED IN A SEPARATE, APPROPRIATELY SIZED VALVE BOX, SET AT GRADE AND PLACED AT LEAST 12" FROM SIDEWALKS AND BUILDINGS.
13. ADJUST SPRAY HEAD RADII AND ARCS TO MAXIMIZE COVERAGE AND MINIMIZE SPRAY OVERTHROW ONTO WALLS, BUILDINGS AND SIDEWALKS. RECOMMEND USAGE OF STREAM ROTORS FOR WHERE A SPRAY SYSTEM IS UTILIZED.
14. THIS IRRIGATION PLAN (IF SUPPLIED) IS DIAGRAMATIC, AND THEREFORE IS SUBJECT TO IN FIELD MODIFICATIONS. THE INTENT OF THIS IRRIGATION PLAN IS TO PROVIDE EQUAL COVERAGE, WHILE MINIMIZING OVERTHROW.
15. USE TEFLON TAPE ON ALL TREADED FITTINGS.
16. CONTRACTOR SHALL LOCATE AND VERIFY LOCATION OF ALL UNDER GROUND UTILITIES PRIOR TO TRENCHING IN THE PROJECT SITE
17. PLACE IRRIGATION MAINLINE IN SAME TRENCH AS DOMESTIC WATER MAIN. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR. FOR LOCATION OF WATER MAINLINES SEE CIVIL ENGINEERING DRAWINGS.
18. IN ADDITION TO MANUFACTURERS GAURENTEES OR WARRANTIES ALL IRRIGATION WORK SHALL BE WARRANTED FOR ONE YEAR FROM FINAL ACCEPTANCE AGAINST DEFECTS IN MATERIAL, EQUIPMENT AND WORKMANSHIP.
19. CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND CITY AND/OR COUNTY WATER ORDINANCE SPECIFICATIONS.

SYM	SIZE	COMPONENT	MANUFACTURER	PART NUMBER	REMARKS
	1"	BACKFLOW PREVENTION DEVICE	PERCO	825Y	PER PLAN
		AUTOMATIC CONTROLLER	HUNTER PRO-C300	3 TO 15 STATION	OWNER TO SUPPLY OUTLET & INSTALL LOCATION
		SENSOR	HUNTER	SOLAR SYNC MODULE	MOUNT ON ROOF IN SOUTH ASPECT
	1"	REMOTE CONTROL VALVE	HUNTER	PGV-100	IN IRRIGATION VALE BOX
	1/4 GPM	TREE BUBBLER	HUNTER	PCH-25	2 PER TREE-WELL
		PROPRAY BODY	HUNTER	PROS-06-PRS30	6" POP UP, FOR SHRUB SPRAYERS ONLY
		PROPRAY BODY	HUNTER	PROS-04-PRS30	4" POP UP, FOR TREE BUBBLERS ONLY
		PRO ADJUSTABLE NOZZLE	HUNTER 4A		
	3/4"	LATERAL PIPE	CLASS 200 PVC		
	1"	MAINLINE PIPE	SCH 40 PVC		
	1-1/4"	SLEEVE	COPPER		PER CIVIL DRAWING, SEE SHEET

REDBUD DESIGN  
3739 16TH STREET  
SAN FRANCISCO, CA  
707-799-6525

IRRIGATION PLAN

3101 35th AVE.  
OAKLAND, CA 94619



NORTH

SCALE: 1" = 10'-0"

DATE: JANUARY 20, 2014

DRAWN BY: K.N.

NEW SHEET

SHEET: **L2.0**

ARCHITECTURE

PHILIP BANTA & ASSOCIATES

1050 HOLDS STREET  
EMERVILLE, CALIFORNIA 94608

TEL: 510.654.3255  
FAX: 510.654.3259  
www.pbantadesign.com

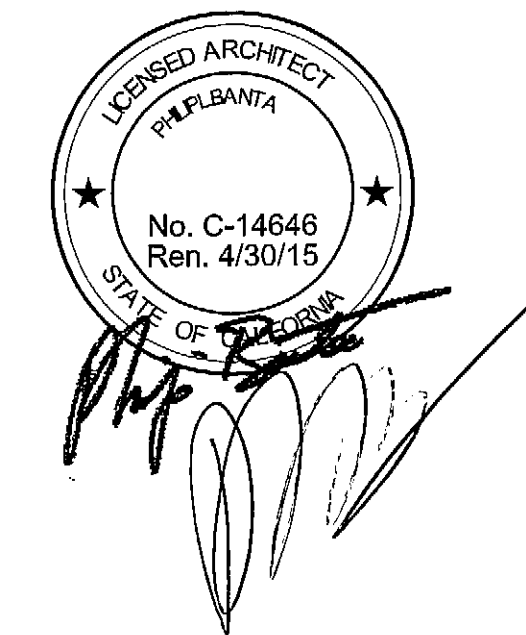
REVISIONS:  ISSUES:

No.	Description	Date
1/	1ST PLAN CHECK REVIEW	01/14/14
1/	BUILDING PERMIT	12/12/13

PROJECT:

**35th @ School**  
Oakland, CA 94619

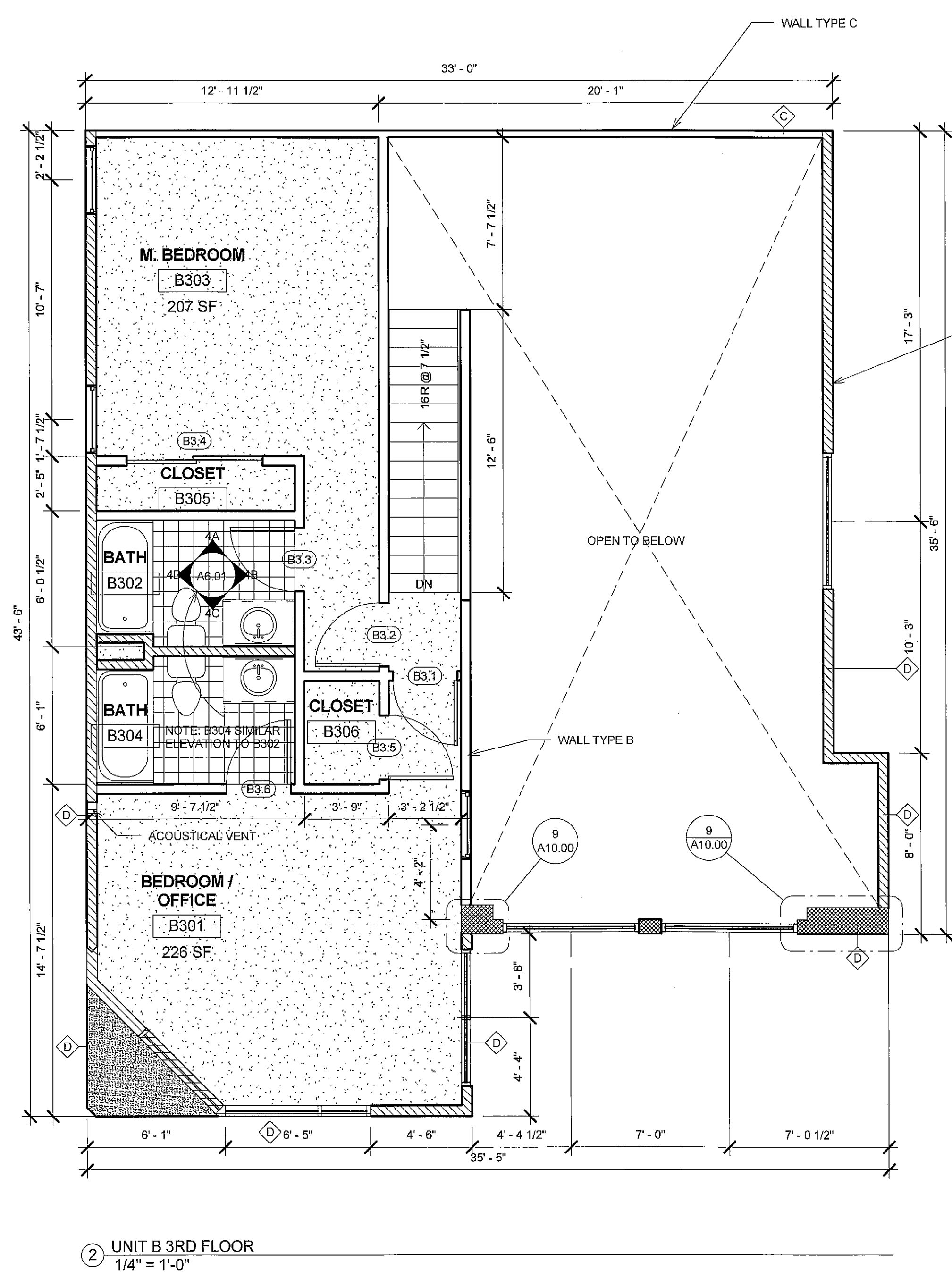
APPROVED  
CITY OF OAKLAND  
BUILDING SERVICES  
PLANS & PERMITS DIVISION  
1. Substantial Compliance with  
Revisions and Ordinance  
REVISIONS NEED APPROVAL  
BY:  
1. BUILDING CODE  
2. PERMITS TO USE SECT 105.4.3  
3. SECT 105.4.4 & SECT 105.6  
4. SURVEY (REVIEW ONLY)  
5. PLAT PLAN REVIEW  
6. JOINT WORKING LAYOUT  
7. FINISHING AND  
8. WORK CONTROL  
9. REPORT ON FILE  
ARCH. PLUMB.  
ELECT.



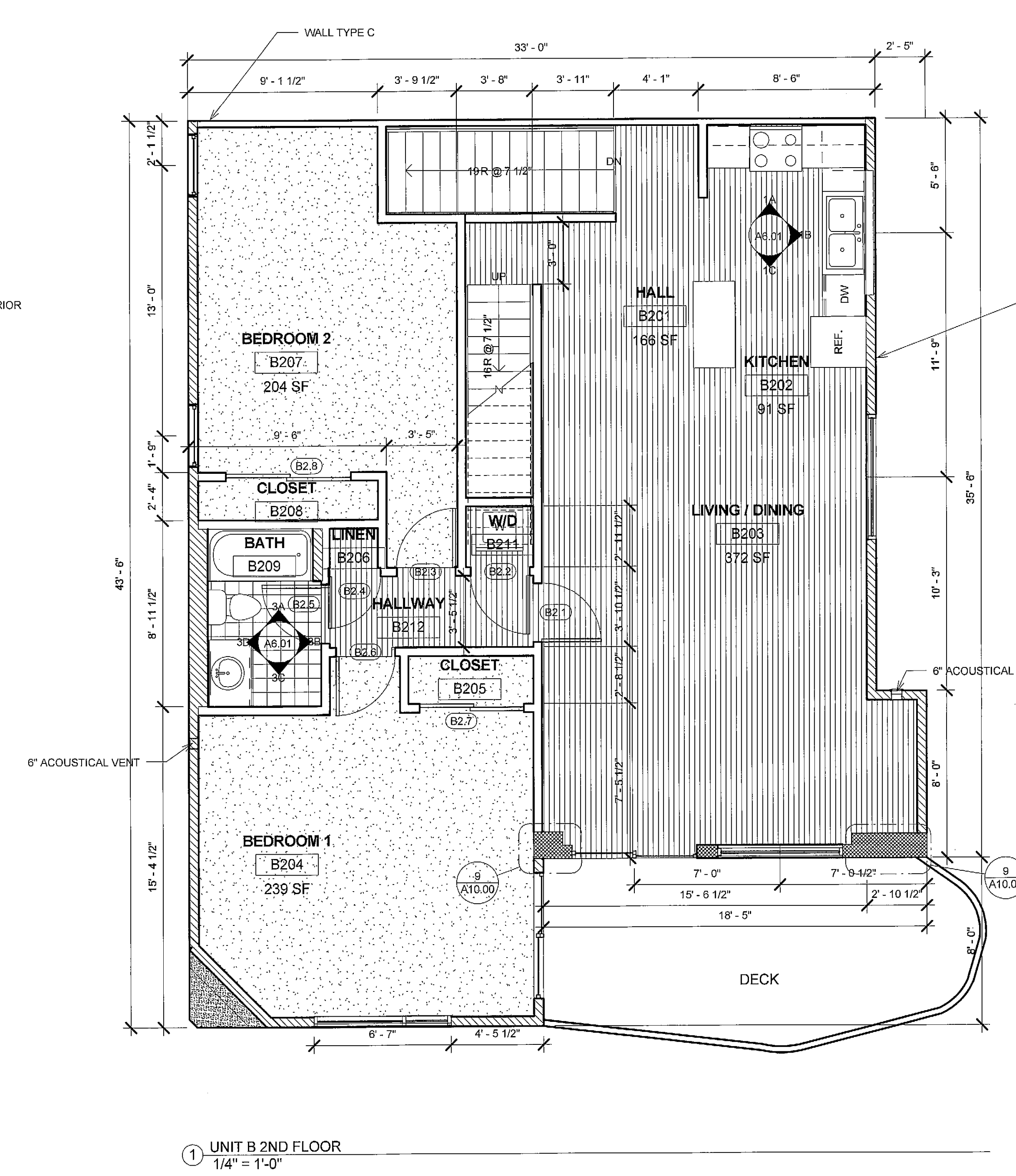
SHEET DESCRIPTION:  
**UNIT B PLANS  
(RESIDENTIAL)**

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JH/JY  
CHECKED BY: PB  
SCALE: 1/4" = 1'-0"

**A2.11**



2 UNIT B 3RD FLOOR  
1/4" = 1'-0"

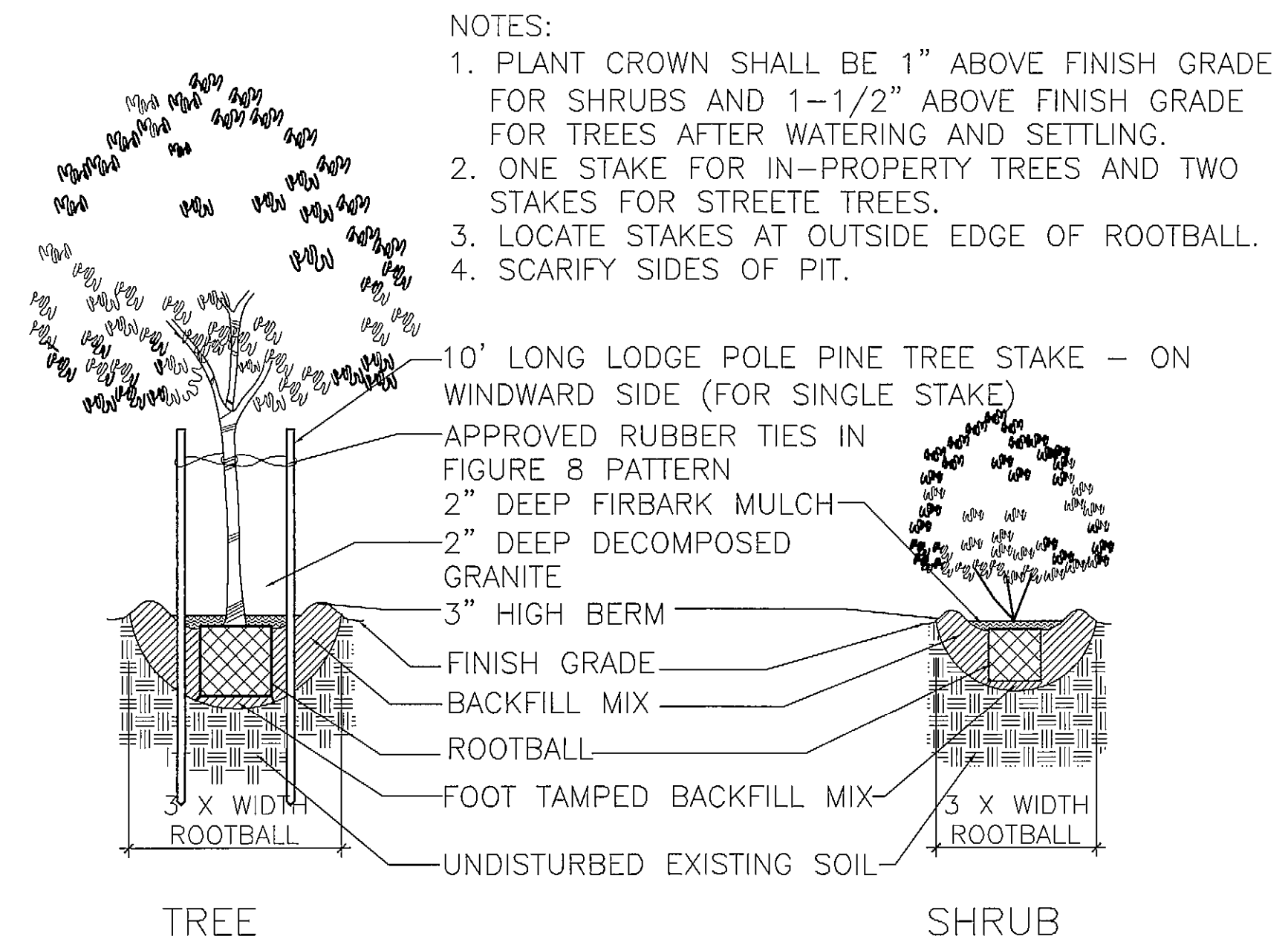


1 UNIT B 2ND FLOOR  
1/4" = 1'-0"

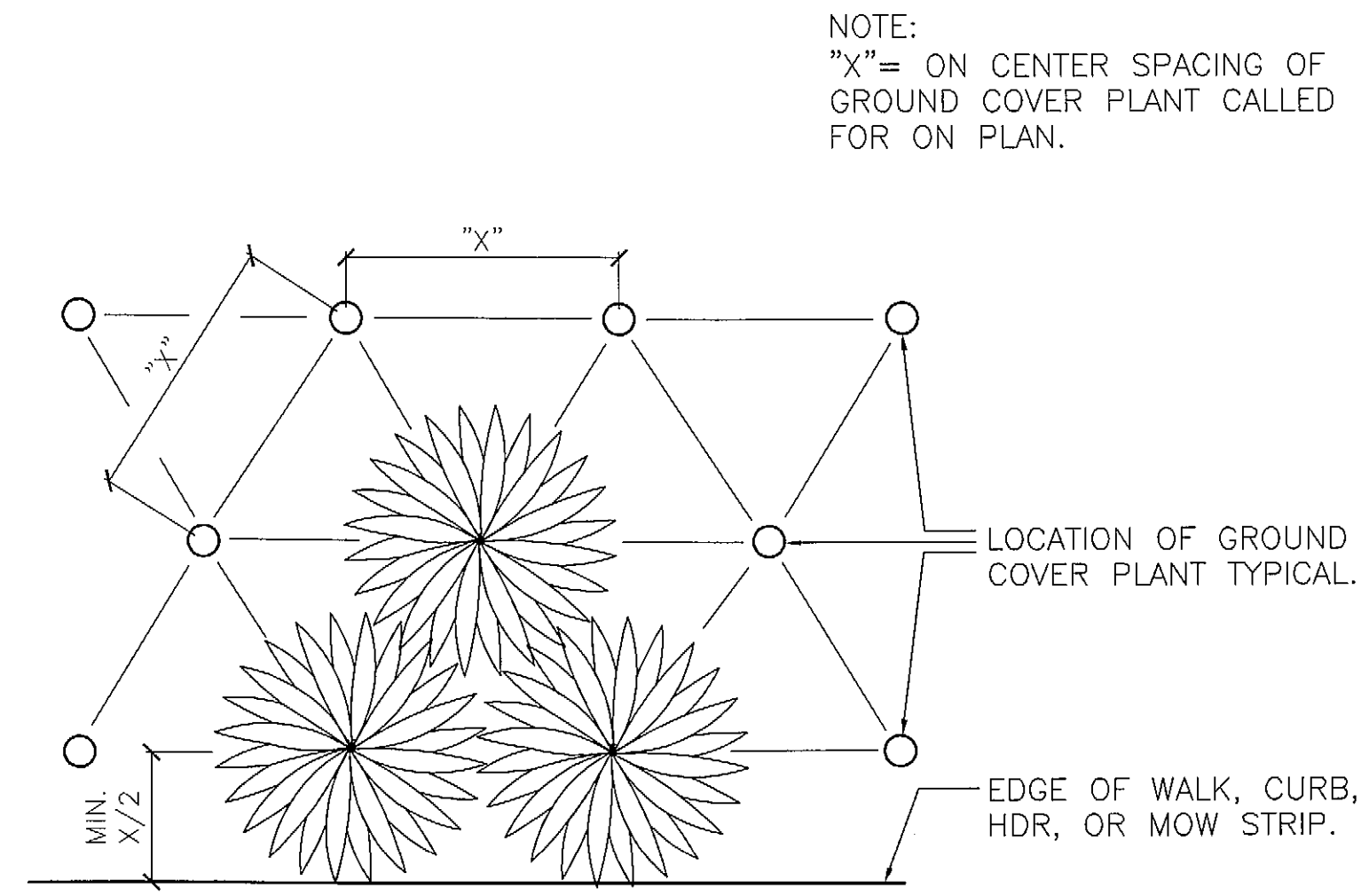
BUILDING PLAN LEGEND	
	CONCRETE
	CERAMIC TILE
	CARPET
	LAMINATE WOOD FLOORING
	CEILING DROPPED TO 8'-0"
	2x4 STUD WALL
	2x6 STUD WALL
	2x8 STUD WALL

- BUILDING PLAN NOTES**
- FOR WALL TYPES REFER PAGE 9.00
  - ALL INTERIOR WALLS TO BE WALL TYPE A UNLESS OTHERWISE NOTED
  - EXTERIOR DOOR TAGS & WINDOW TAGS ARE LOCATED IN BUILDING PLANS A.1 SERIES
  - SEE SHEET A7.0 FOR ROOM FINISH SCHEDULE

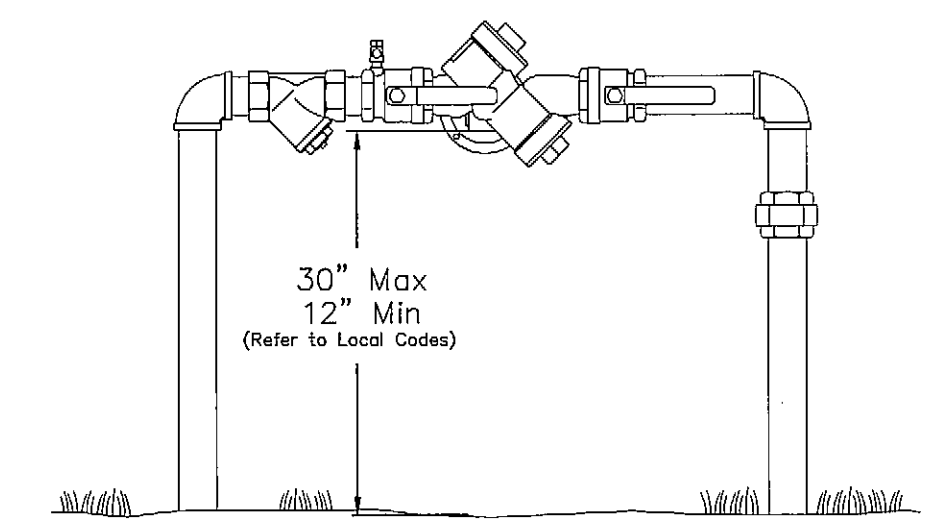
12/27/2013 4:01:04 PM



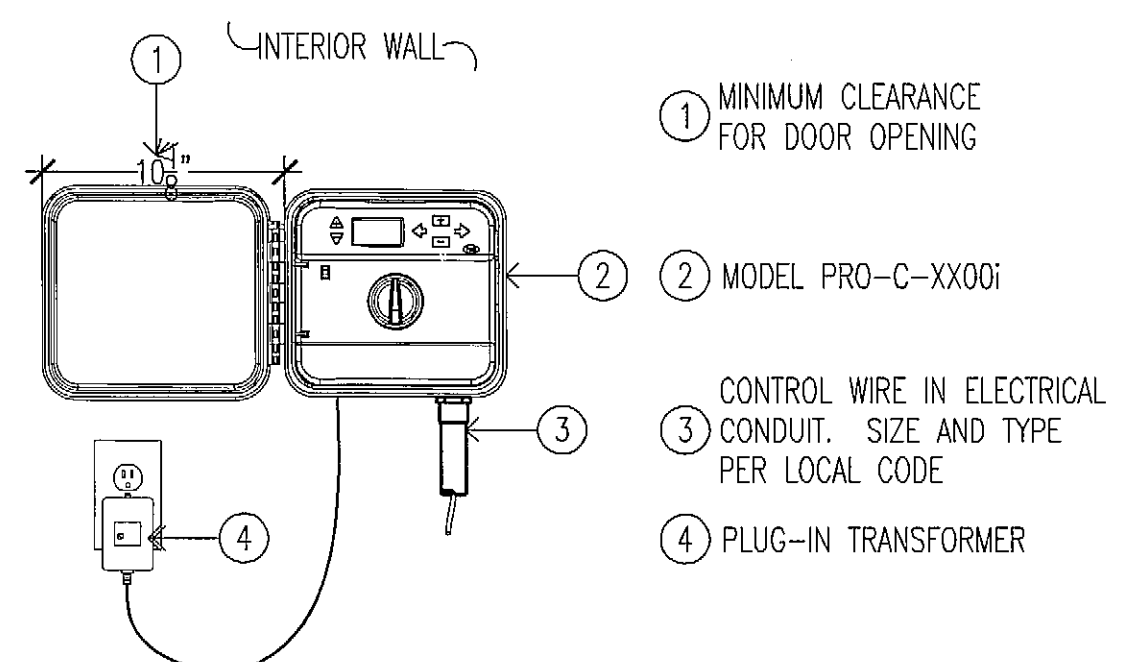
**A** TREE AND SHRUB PLANTING  
 1"=1'-0"



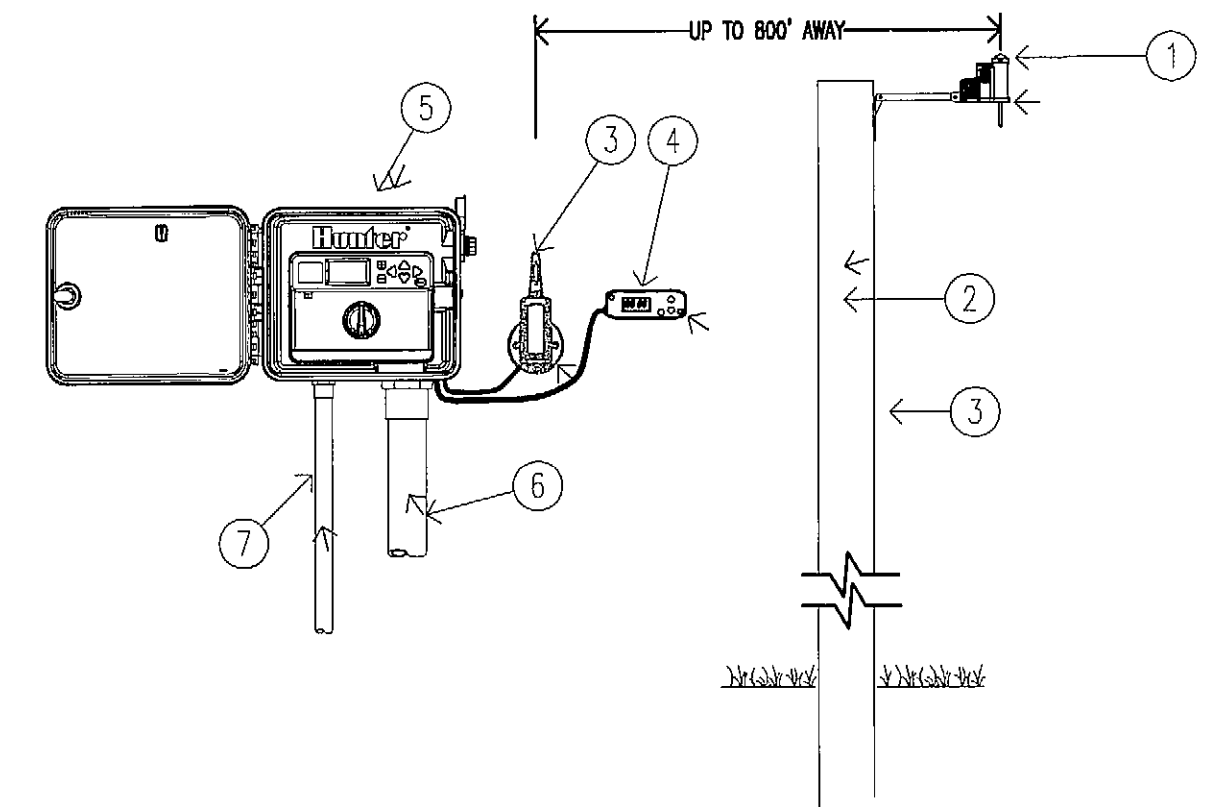
**B** GROUND COVER PLANTING  
 NTS



**D** BACK FLOW PREVENTION DEVICE  
 NTS

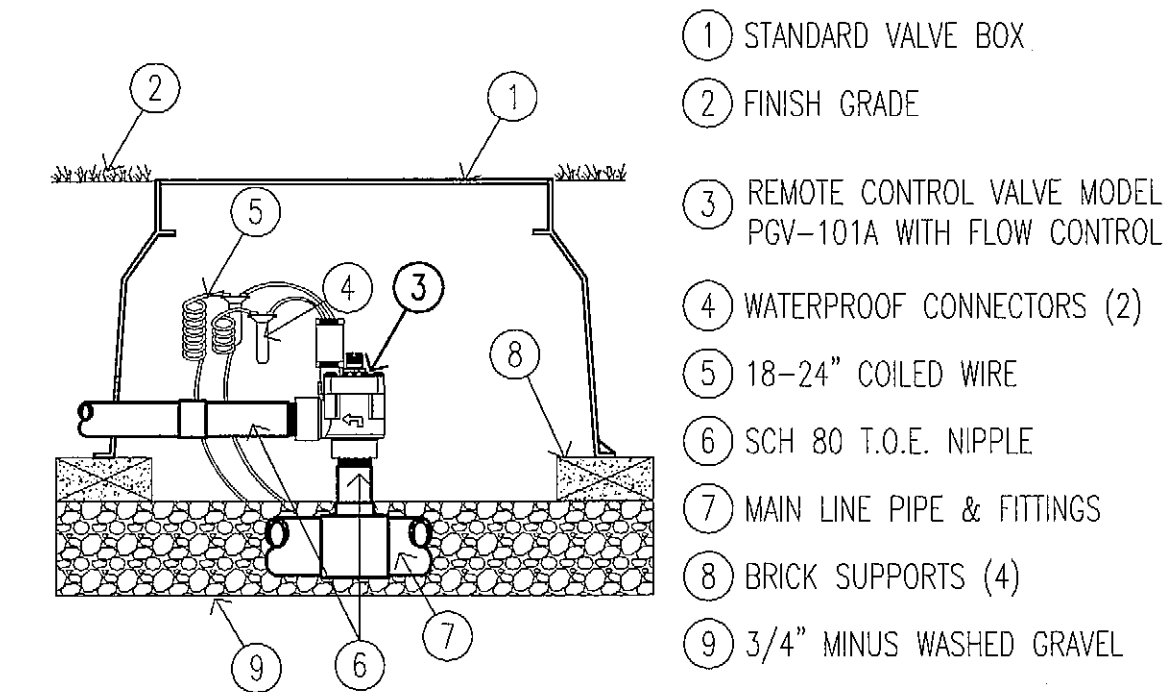


**E** AUTOMATIC IRRIGATION CONTROLLER  
 1-1/2"=1'-0"

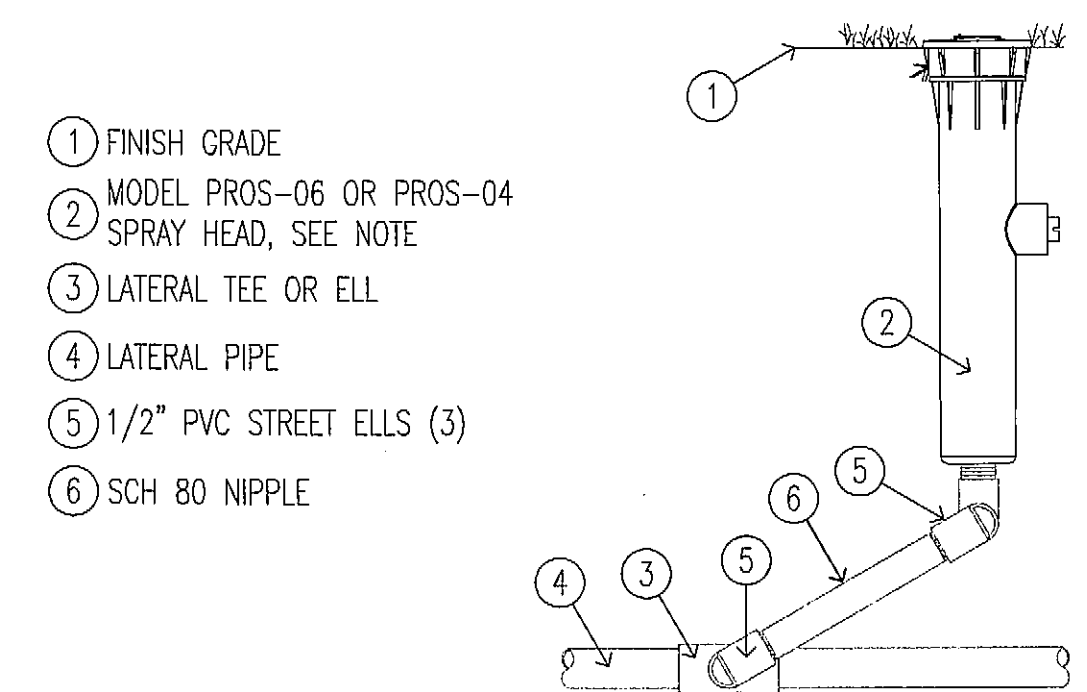


- 1 MODEL: WIRELESS SOLAR SYNC SENSOR. MOUNT UP TO 800' FROM RECEIVER. SUITABLE POST, POLE, OR GUTTER MOUNT. MOUNT IN LOCATION WHERE SENSOR CAN RECEIVE FULL SUN, IS OPEN TO RAINFALL AND OUT OF SPRINKLER SPRAY PATTERN
- 2 WIRELESS SOLAR SYNC RECEIVER MOUNTED ON THE WALL NEXT TO THE CONTROLLER CABINET
- 3 MODEL: SOLAR SYNC MODULE MOUNT LESS THAN 6' AWAY FROM CONTROLLER.
- 4 HUNTER I-CORE CONTROLLER
- 5 VALVE CONTROL WIRE CONDUIT
- 6 POWER SOURCE

**F** IRRIGATION SENSOR  
 NTS



**C** REMOTE CONTROL VALVE  
 1/2"=1'-0"

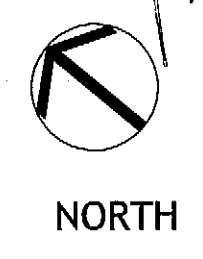
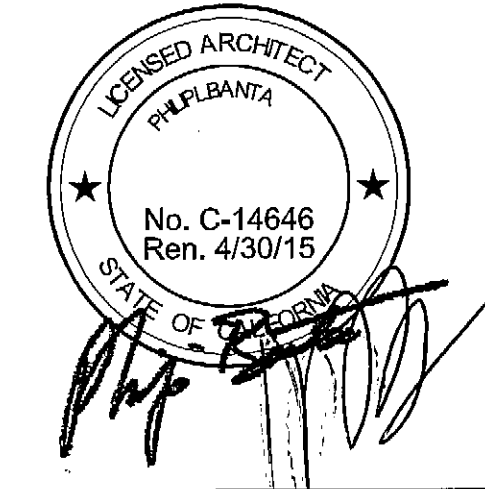


**E** SPRAY AND BUBBLER BODY  
 3"=1'-0"

REDBUD DESIGN  
 3739 16TH STREET  
 SAN FRANCISCO, CA  
 707-799-6525

PLANTING &  
 IRRIGATION DETAILS

3101 35th AVE.  
 OAKLAND, CA 94619



SCALE: 1" = 10'-0"  
 DATE: JANUARY 20, 2014  
 DRAWN BY: K.N.

NEW SHEET  
 SHEET: **L3.0**

ARCHITECTURE

PHILIP BANTA & ASSOCIATES

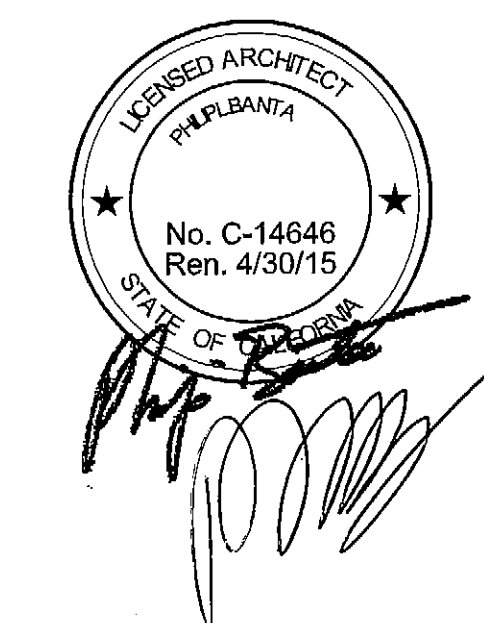
16050 HOLDS STREET  
EMERYVILLE, CALIFORNIA 94608

TEL: 510-654-3255  
FAX: 510-654-3259  
www.philipbanta.com

REVISIONS:  $\Delta$  ISSUES:  $\circ$

No.	Description	Date
1/1	1ST PLAN CHECK REVIEW	01/14/14
1/2	BUILDING PERMIT	12/12/13

PROJECT:  
**35th @ School**  
Oakland, CA 94619



APPROVED  
CITY OF OAKLAND  
BUILDING SERVICES  
PLANNING SECTION  
In Full Compliance With  
City Code and Ordinances  
REVISIONS NEED APPROVAL  
IF:  
- BUILDING CODE  
- SUBJECT TO URC SECT 108.4.3  
- SUBJECT TO URC SECT 108.4.4  
- SURVEY (REVIEW ONLY)  
- PLOT PLAN REVIEW  
- PARKINGWAY LAYOUT  
- SIGNING AND  
- CONTROL  
- REPORT ON FILE  
DATE: 01/14/14  
BY: JHM/B

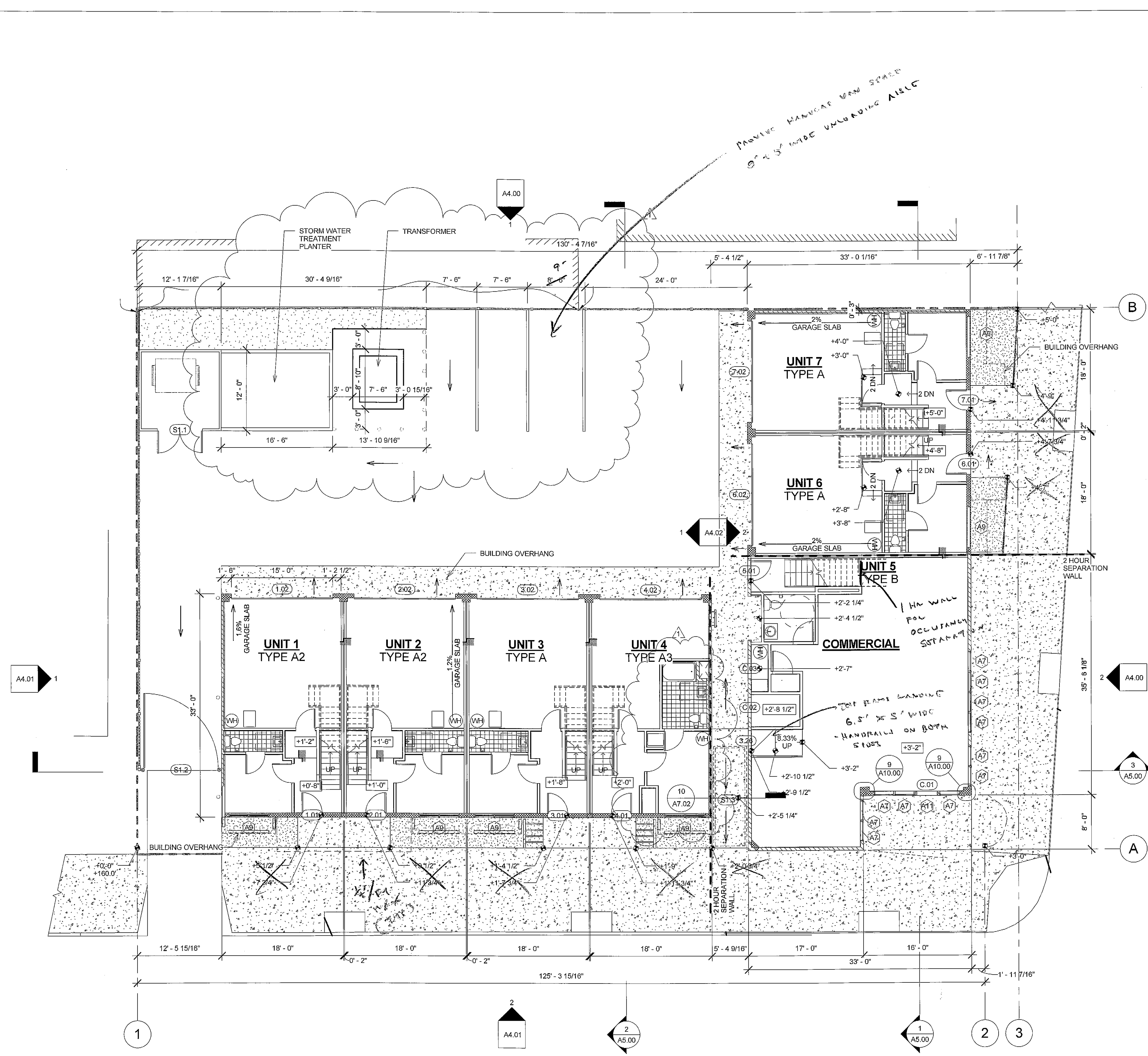
SHEET DESCRIPTION:  
**GROUND FLOOR PLAN**

**APPLICANT COPY**

PROJECT NUMBER:	0714
DATE:	01/14/14
DRAWN BY:	JH/JY
CHECKED BY:	PB
SCALE:	1/8" = 1'-0"

**A1.01**

1/19/2014 5:55:20 AM



1 1ST FLOOR AT UNITS 1&2  
1/8" = 1'-0"

BUILDING PLAN LEGEND	
	PLANTING AREA
	FINISH FLOOR ELEVATION 0'-0" SET AT 160'-0" PER SURVEY
	2x4 STUD WALL - SEE SHEET A9.0
	2x6 STUD WALL - SEE SHEET A9.0
	2x8 STUD WALL - SEE SHEET A9.0
	CONCRETE

BUILDING PLAN NOTES			
1.	REFER TO SHEET A9.00 FOR ASSEMBLY NOTES.	7.	REFER TO A2 SERIES FOR UNIT DIMENSIONS, DOOR AND WINDOW TAGS AND PARTITION INFORMATION
2.	REFER TO SHEETS A7.00 FOR DOOR SCHEDULES AND NOTES	8.	ALL DIMENSIONS TO FACE OF STUD, U.N.O.
3.	REFER TO SHEETS A7.01 FOR WINDOW SCHEDULE AND NOTES	9.	
4.	REFER TO SHEETS OF A10.00 SERIES FOR WATERPROOFING DETAILS	10.	
5.	REFER TO SHEET A0.05 FOR ACCESSIBILITY DETAILS AND REQUIREMENTS		
6.	REFER TO SHEET A9.00 FOR WALL TYPE ASSEMBLIES.		





**GENERAL STRUCTURAL NOTES**

**GENERAL**

- SEE DRAWINGS OTHER THAN STRUCTURAL FOR: TYPES OF FLOOR FINISH AND THEIR LOCATION, FOR DEPRESSIONS IN FLOOR SLABS, FOR OPENINGS IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MECHANICAL FEATURES.
- HOLES AND OPENINGS THROUGH WALLS AND FLOORS FOR DUCTS, PIPING AND VENTILATION SHALL BE COORDINATED BY THE CONTRACTOR WHO SHALL VERIFY SIZES AND LOCATION OF SUCH HOLES OR OPENINGS WITH THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND THEIR SUB-CONTRACTORS.
- NO PIPES OR DUCTS SHALL BE EMBEDDED IN WALLS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ARCHITECT.
- DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACING. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO INSURE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT, ENGINEER OR CONSTRUCTION MANAGER SHALL NOT RELIEVE THE CONTRACTOR OF SUCH RESPONSIBILITY.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- OMMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
- DO NOT USE SCALED DIMENSIONS. USE WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE CALLED FOR OR SHOWN.

**DESIGN BASIS**

- APPLICABLE CODE: CALIFORNIA BUILDING CODE (CBC), 2010 EDITION.
- VERTICAL LOADS:  
ROOF LIVE LOAD (REDUCIBLE): 20 PSF  
FLOOR LIVE LOAD (REDUCIBLE):  
APARTMENTS 40 PSF  
BALCONIES 60 PSF  
HALLWAY & EXIT FACILITIES 100 PSF  
RETAIL & COMMERCIAL 125 PSF
- LATERAL LOADS:  
DESIGN WIND PRESSURE:  $P_w = 0.6 K_z K_{zt} K_d V^2 / I_w$ ; BASIC WIND SPEED = 85 mph  
 $I_w = 1.00$   $K_{zt} = 1.0$   $\lambda = 1.29$  EXPOSURE "C"  
 $P_{30} = 15.9$  ZONE A  
 $P_{30} = 10.6$  ZONE C  
CODE SEISMIC:  $V_s = C_s W$   
 $S_s = 1.509$   $S_1 = 0.600$   $F_a = 1.5$   $I_w = 1.0$   
 $R = 6.5$  (LIGHT-FRAME)  $R = 3.25$  (STEEL BRACED FRAMES)  
 $R = 5$  (REINFORCED CONCRETE MOMENT FRAMES)  
SITE CLASS: "D"  
SEISMIC DESIGN CATEGORY: "D"
- GEOTECHNICAL CRITERIA:  
FOUNDATIONS HAVE BEEN DESIGNED BASED ON THE RECOMMENDATIONS OF SOIL REPORT ENTITLED "PROPOSED TOWNHOUSE DEVELOPMENT, 3101 35th AVENUE, OAKLAND, CALIFORNIA, GEOTECHNICAL INVESTIGATION AND "PAVEMENT DESIGN", PREPARED BY UNITED SOIL ENGINEERING, INC. DATED AUGUST, 2007; AND  
SOIL REPORT UPDATE AND SUPPLEMENTAL RECOMMENDATIONS TOWNHOUSE DEVELOPMENT, 3101 35th AVENUE, OAKLAND, CALIFORNIA PREPARED BY GEOTRINITY CONSULTANTS, INC. DATED OCTOBER 11, 2013.

**MATERIALS**

- CONCRETE:  
REINFORCING STEEL: ASTM A615 GRADE 60 FOR #4 BARS AND SMALLER  
ASTM A615 GRADE 60 FOR #5 BARS AND LARGER  
CONCRETE STRENGTH: 3000 psi MINIMUM AT 28 DAYS; 1" MAX. AGGREGATE.  
MINIMUM CONCRETE COVER FOR REINFORCING STEEL:  
SURFACES PLACED AGAINST EARTH 3"  
FORMED SURFACES BELOW GRADE 2"  
SURFACES EXPOSED TO WEATHER 2"  
EXTERIOR WALL AT EXTERIOR FACE 1.5"  
SLABS AND WALLS NOT EXPOSED TO WEATHER 1"
- WOOD:  
SAWN LUMBER GRADES - ALL DOUGLAS FIR;  
POSTS, BEAMS, AND HEADERS: NO. 1  
PLATES, BLOCKS, LIGHT FRAMING AND MISC.: NO. 2  
ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY TO BE DECAY RESISTANT OR PRESSURE TREATED.  
PLYWOOD SHEATHING:  
ROOFS: 3/4 in. CD EXTERIOR APA RATED 48/24 EXPOSURE 1.  
FLOORS: 3/4 in. STRUCT 1 EXTERIOR APA RATED 48/24 EXPOSURE 1.  
WITH TONGUE AND GROOVE EDGES. GLUE TO SUPPORT MEMBERS.  
WALLS: 1/2 in. CD EXTERIOR APA RATED 32/16 EXPOSURE 1.  
STUDS: 1.3E TIMBER STRAND LSL BY ILEVEL TRUS JOIST ESR-1387  
FRAMING HARDWARE: AS MANUFACTURED BY SIMPSON COMPANY OR AN APPROVED EQUAL PRODUCT. SIMPSON DESIGNATIONS ARE USED ON STRUCTURAL DRAWINGS.  
NAILS: COMMON WIRE GAGE UNLESS OTHERWISE NOTED.  
NAILING TO CONFORM TO CBC TABLE 2304.9.1.  
WOOD CONNECTION BOLTS: ASTM A307.  
ANCHOR BOLTS: AT SILL PLATE USE ASTM A307; AT TIE DOWNS USE ASTM A36 AND A108  
PARALLEL STRAND LUMBER (PSL):  
PARALLAM DF 2.0E AS MANUFACTURED BY TRUS JOIST MACMILLAN. ESR-1387  
LAMINATED VENER LUMBER (LVL):  
MICROLLAM DE 1.9E AS MANUFACTURED BY TRUS JOIST MACMILLAN. ESR-1387  
ALL FRAMING LUMBER SHALL HAVE 19% MAXIMUM MOISTURE CONTENT AT TIME OF INSTALLATION.

**3. STEEL (SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW)**

WIDE FLANGE: ASTM A992  
TUBES: ASTM A500, GRADE B  
PLATES: ASTM A572, GRADE 50  
WELDING ELECTRODES: E-70XX  
NON-SHRINK GROUT: ASTM C1107, CLASS B  
WELDED STUDS: HEADED ANCHORS TYPE H4L OR S3L BY NELSON OR EQUAL.  
HIGH STRENGTH THREADED ROD: ASTM A449

**WELDING NOTES**

- WELDING AND INSPECTION SHALL BE IN ACCORDANCE WITH AWS D1.1, LATEST EDITION.
- WELDING FILLER METAL SHALL HAVE A MINIMUM V-NOTCH TOUGHNESS OF 20 FT-LB AT 0°F (E70T-4 OR NS-3M SHALL BE SPECIFICALLY PROHIBITED).
- ALL WELDS SHALL BE STARTED AND ENDED WITH A MINIMUM LENGTH OF ONE INCH ON WELD TABS "FRON OFF" TABS EXCEPT AT ACCESS HOLES IN BEAM/GIRDER WEBS. ALL WELD TABS SHALL BE REMOVED, THE AFFECTED AREA GROUND SMOOTH AND MAGNETIC PARTICLE TESTED FOR DEFECTS.
- IF BACKING BARS ARE USED UNDER THE BOTTOM BEAM FLANGE TO COLUMN FLANGE CIP GROOVE WELD, THE BACKING BAR SHALL BE REMOVED, THE REMOVAL AREA GROUND TO SOUND, BRIGHT METAL AND THE AREA MAGNETIC PARTICLE TESTED FOR DEFECTS. A REINFORCING FILLET WELD, AT LEAST 1/4" OF THE BOTTOM FLANGE THICKNESS BUT NOT GREATER THAN 3/8", SHALL BE PLACED IN THIS LOCATION.
- IF BACKING BAR IS USED UNDER THE TOP BEAM FLANGE TO COLUMN CIP GROOVE WELD, AND IS NOT REMOVED, THE BACKING BAR SHALL BE ATTACHED TO THE COLUMN AND BEAM FLANGES BY EITHER A FILLET WELD ALONG THE COMPLETE BAR LENGTH OF THE UNDER SIDE OF THE BAR, OR BY A PARTIAL PENETRATION WELD FROM THE UNDERSIDE OF THE BAR, FOR THE FULL LENGTH OF THE BAR.
- WELD "DAMS" SHALL NOT BE ALLOWED.
- ALL GROOVE WELDS SHALL BE ULTRASONICALLY (UT) EXAMINED FOR THE FULL LENGTH. BACKING BAR REMOVAL AREAS AND FILLET WELDS ON CONTINUITY PLATES SHALL BE EXAMINED FOR THE FULL LENGTH BY THE MAGNETIC PARTICLE TESTING (MT) METHOD.
- A COMPLETE WELDING PROCEDURE SHALL BE SUBMITTED TO AND APPROVED BY THE STRUCTURAL ENGINEER-OF-RECORD AND THE BUILDING DEPARTMENT BEFORE ANY WELDING IS COMMENCED.
- WELD ACCESS HOLES SHALL BE PER FEMA 350 SECTION 3.3.2.7 AND FIGURE 3-5.
- SHOPPING DRAWING OF SMRF SHOULD BE PROVIDED BY CONTRACTOR FOR REVIEW.

**NAILING SCHEDULE (Table 2304.9.1)**

(ALL NAILS SHALL BE UTILIZE COMMON NAILS)	FASTENING	LOCATION
1. JOIST TO SILL OR GIRDER	3-8d	TOENAIL
2. BRAIDING TO JOIST	2-8d	TOENAIL EACH END
3. 1X6 SUB FIR OR LESS TO EA. JOIST	2-8d	FACE NAIL
4. WIDER THAN 1X6 SUB FIR. TO EA. JOIST	3-8d	FACE NAIL
5. 2" SUB FLOOR TO JOIST OR GIRDER	2-16d	BLIND AND FACE NAIL
6. SOLE PL. TO JOIST OR RIKING TO JOIST OR BLKING AT BRACED WALL PANELS	16d @ 16" O.C. 3"-16d @ 16" O.C.	TYPICAL FACE NAIL BRACED WALL PANELS
7. TOP PL. TO STUD	2-16d	END NAIL
8. STUD TO SOLE PL.	4-8d 2-16d	TOENAIL END NAIL
9. DOUBLE STUDS	16d @ 24" O.C.	FACE NAIL
10. DOUBLE TOP PLS.	16d @ 16" O.C.	TYPICAL FACE NAIL
DOUBLE TOP PLS.	8-16d	LAP SPICE
11. BLKG BETWEEN JOISTS OR RAFTERS TO TOP PL.	3-8d	TOENAIL
12. RIM JOIST TO TOP PL.	8d AT 6" O.C.	TOENAIL
13. TOP PLS., LAPS AND INTERSECTIONS	2-16d	FACE NAIL
14. CONTINUOUS HDR. TWO PIECES.	16d	16" O.C. ALONG EDGE
15. CLG. JOISTS TO PL.	3-8d	TOENAIL
16. CONTINUOUS HDR. TO STUD	4-8d	TOENAIL
17. CLG. JOISTS LAPS OVER PARTITIONS	3-16d	FACE NAIL
18. CLG. JOISTS TO PARALLEL RAFTERS	3-16d	FACE NAIL
19. RAFTER TO PL.	3-8d	TOENAIL
20. 1" BRACE TO EA. STUD \$ PL.	2-8d	FACE NAIL
21. 1X8 SH'T'G TO EA. BEARING	3-8d	FACE NAIL
22. WIDER THAN 1X8 SH'T'G TO EA. BEARING	3-8d	FACE NAIL
23. BUILT-UP CNR. STUDS.	16d @ 24" O.C.	FACE NAIL ON B.S.
24. BUILT-UP GIRDER AND BEAMS AT T&B STAGGERED AT ENDS AND AT EACH SPLICE	20d AT 32" O.C.	FACE NAIL
25. 2" PLANKS	16d	AT EACH BEARING
26. COLLAR TIE TO RAFTER	3-10d	FACE NAIL
27. JACK RAFTER TO HIP	3-10d	TOENAIL
	2-16d	FACE NAIL
28. ROOF RAFTER TO 2x RIDGE BEAM	2-16d	FACE NAIL / TOENAIL
29. JOIST TO BAND JOIST	3-16d	FACE NAIL

**STRUCTURAL SHEET INDEX**

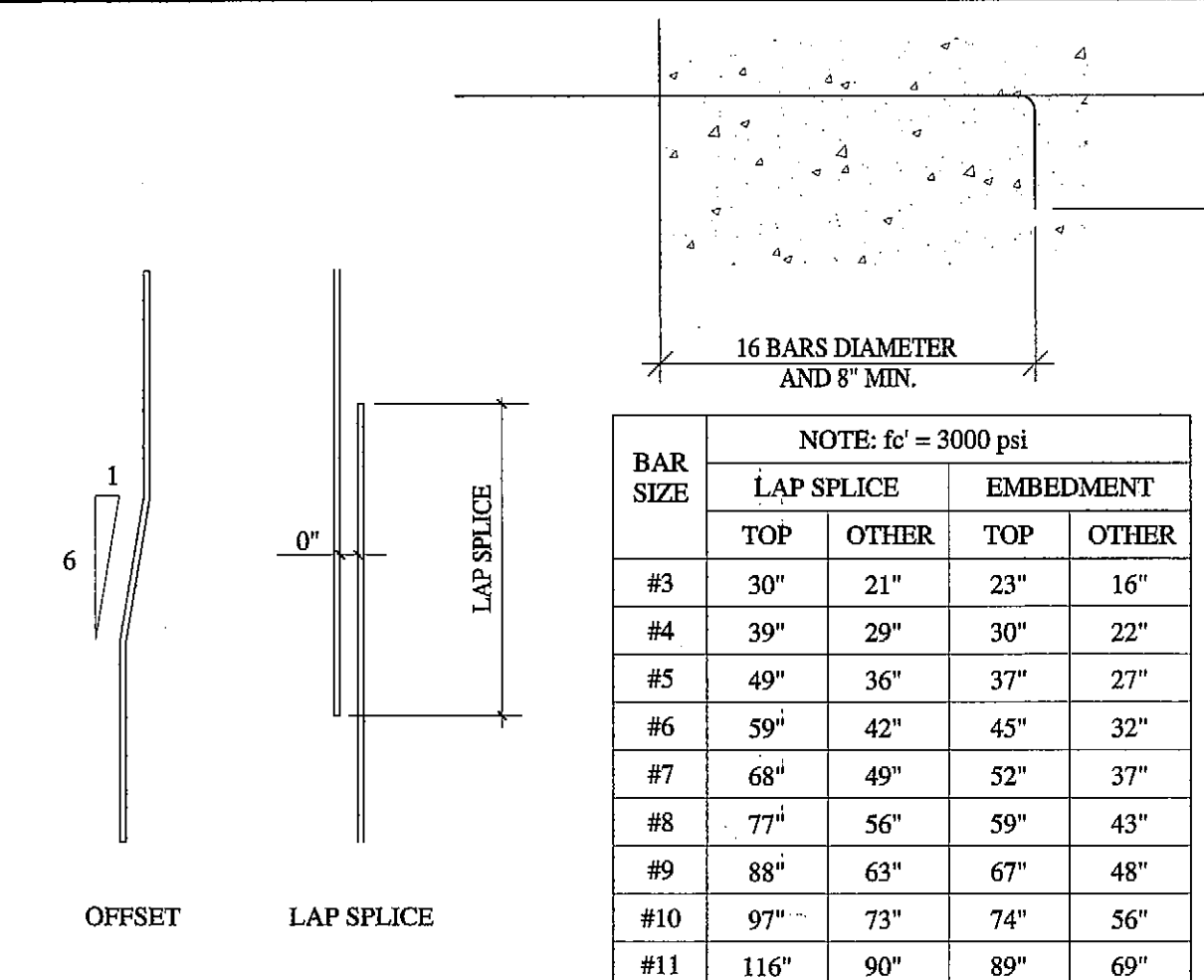
S0.0	STRUCTURAL NOTES
S0.1	TESTING AND SPECIAL INSPECTION
S1.1	FOUNDATION PLAN
S1.2	SECOND FLOOR FRAMING PLAN
S1.3	THIRD FLOOR FRAMING PLAN
S1.4	ROOF FRAMING PLAN
S2.1	CONCRETE DETAILS
S2.2	CONCRETE DETAILS
S3.1	FRAMING DETAILS
S3.2	FRAMING DETAILS
S3.3	FRAMING DETAILS
S3.4	FRAMING DETAILS
S3.5	FRAMING DETAILS
S4.1	TYPICAL I JOIST INSTALLATION DETAILS

**PROJECT SITE IMPROVEMENTS**

- PRIOR TO ISSUANCE OF BUILDING PERMITS, THE APPLICANT SHALL PROVIDE AN UPDATED GEOTECHNICAL ENGINEERING INVESTIGATION REPORT FOR THE PROJECT SITE. THE REPORT SHOULD ADDRESS THE SEISMIC HAZARD MAP REQUIREMENTS.
- PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE PROJECT'S GEOTECHNICAL ENGINEER OF RECORD SHALL REVIEW AND APPROVE SITE DRAINAGE.

**ABBREVIATIONS**

@	AND AT
A.B.	ANCHOR BOLT
ARCH.	ARCHITECTURAL
BD.	BOARD
B.F.E.	BASE FLOOD ELEVATION
B.L.D.G.	BUILDING
B.L.K.G.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
CL.	CENTER LINE
CB.	COLUMN BASE
C.C.	CONTROL JOINT
COL.	COLUMN
CONT.	CONTINUOUS
DET.	DETAIL
D.F.	DOUGLAS FIR
D.F.S.S.	DOUGLAS FIR SELECT STRUCTURAL
DWG.	DRAWING
EA.	EACH
EN.	EDGE NAILING
EL.	ELEVATION
EL.W.	EACH WAY
EXT.	EXTERIOR
F.S.	FAR SIDE
FDN.	FOUNDATION
FIN.	FINISH
F.L.R.	FLOOR
F.O.C.	FACE OF CONCRETE
F.O.S.	FACE OF STUD
FTG.	FOOTING
GLB.	GLU LAM BEAM
H.D.	HOLD DOWN
HDR.	HEADER
HORIZ.	HORIZONTAL
J.H.	JOIST HANGER
LVL.	LAMINATED VENER LUMBER
LSL.	LAMINATED STRAND LUMBER
M.B.	UNFINISHED MACHINE BOLTS
MAX.	MAXIMUM
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.F.	MOMENT FRAME
N.S.	NEAR SIDE
NTS.	NOT TO SCALE
O.C.	ON CENTER
OPC.	OPENING
OPP.	OPPOSITE
P.A.	POST ABOVE
PL.	PLATE
PAR.	PARALLEL
PB.	POST BASE
PC.	POST CAP
PERP.	PERPENDICULAR
PHD.	PREDELECTED HOLD DOWN
PLY.	PLYWOOD
PSL.	PARALLEL STRAND LUMBER
REINP.	REINFORCEMENT
REQ.	REQUIRED
S.A.D.	SEE ARCHITECTURAL DRAWINGS
S.B.C.	SLOPED BOTTOM CHORD
SCHED.	SCHEDULE
SDS.	SIMPSON WOOD SCREW
SIM.	SIMILAR
S.J.	SEISMIC JOINT
SPEC.	SPECIFICATION
SQ.	SQUARE
ST.	STRAP TIE
STD.	STANDARD
SYM.	SYMMETRICAL
T&B	TOP AND BOTTOM
T.D.	TIE DOWN
T&G	TONGUE AND GROOVE
T.O.C.	TOP OF CONCRETE
T.P.	TOP OF PLATE
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.F.	VERIFY IN FIELD
VERT.	VERTICAL
W.	WITH
W/O	WITHOUT



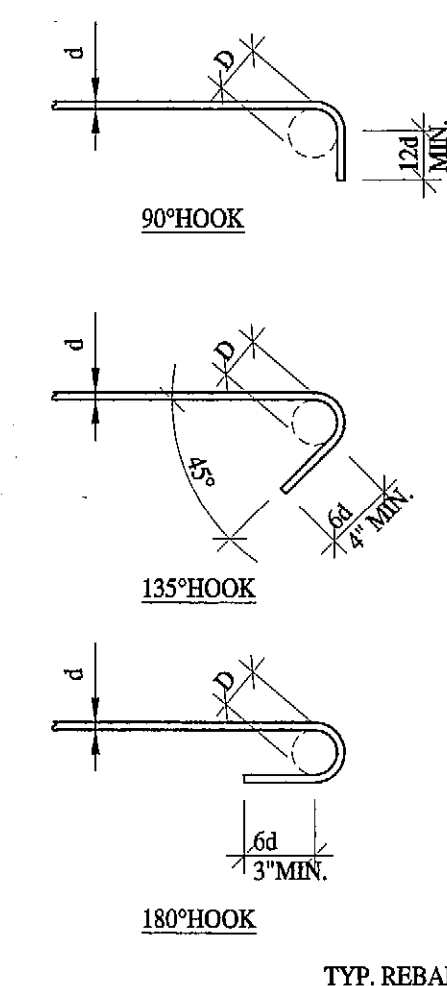
NOTE:  $f_c' = 3000$  psi

BAR SIZE	LAP SPICE		EMBEDMENT	
	TOP	OTHER	TOP	OTHER
#3	30"	21"	23"	16"
#4	39"	29"	30"	22"
#5	49"	36"	37"	27"
#6	59"	42"	45"	32"
#7	68"	49"	52"	37"
#8	77"	56"	59"	43"
#9	88"	63"	67"	48"
#10	97"	73"	74"	56"
#11	116"	90"	89"	69"

**NOTES:**

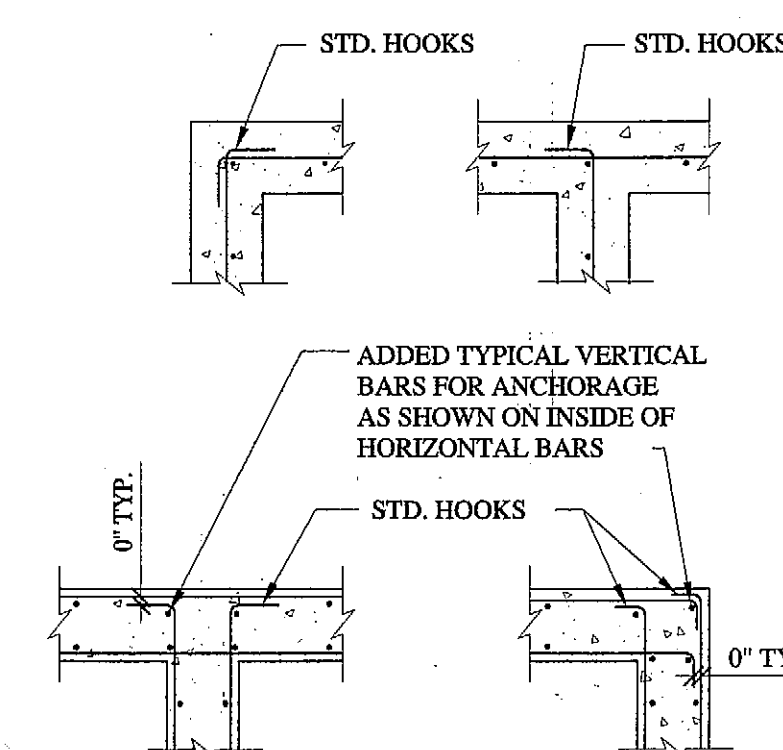
- SPLICERS OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED. SPLICES ARE CLASS "B".
- 0.80 OF SPICE LENGTH MAY BE USED IF LESS THAN 1/2 OF THE BARS ARE LAP SPICED WITHIN A REQUIRED LAP LENGTH OR BARS SPACED AT 60 O.C. OR GREATER.
- TOP BARS REFER TO HORIZONTAL BARS WITH MORE 12" CONCRETE PLACE BELOW DURING A POUR OTHER BARS ARE BOTTOM OR VERTICAL BARS.
- WHERE REQUIRED EMBEDMENT CANNOT BE OBTAINED WITH STRAIGHT BARS PROVIDE 180° OR 90° HOOK EQUALING LENGTH SHOWN BELOW

**TYP. CONC REINF. LAP AND EMBED 1**



D	BAR
6d	#3 THRU #8
8d	#9 THRU #11

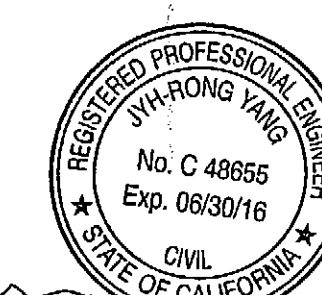
**REINF. STEEL STD. HOOK LENGTHS 2**



**CONCRETE MEMBERS INTERSECTIONS 3**

**GTC GeoTrinity**  
Consultants, Inc.

GeoTrinity Consultants, Inc.  
7770 Pardee Lane, Suite 101  
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Jerry Yang, P.E.; G.T.S.

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San Francisco, CA 94103  
Tel : 510-926-7888

Project Name and Address  
**NEW MIXED-USE BUILDING**  
35th St. & School St.  
Oakland, CA

Sheet Title  
**STRUCTURAL NOTES**

Project: **GE2382** Sheet  
Date: **3/28/2014** **S0.0**  
Scale:

*SPECIAL INSPECTION*  
*CONC*  
*REIN STEEL*  
*WELDING*  
*H.W. BOLTS*  
*SOIL M.C.*  
*MASONRY*

**STRUCTURAL TESTS AND SPECIAL INSPECTIONS**

**GENERAL**

THESE PROVISIONS SHALL GOVERN THE QUALITY, WORKMANSHIP AND REQUIREMENTS FOR MATERIALS COVERED. MATERIALS OF CONSTRUCTION AND TESTS SHALL CONFORM TO THE APPLICABLE STANDARDS LISTED.

**DEFINITIONS**

**QUALITY CONTROL.** INSPECTION PROVIDED BY THE CONTRACTOR BY A QUALIFIED PERSON OF MATERIAL AND WORK PERFORMED BY THE CONTRACTOR.

**QUALITY ASSURANCE.** INSPECTION PROVIDED BY THE OWNER BY A QUALIFIED PERSON OF MATERIAL, WORK AND QUALITY CONTROL DOCUMENTS OR PROCEDURES.

**SPECIAL INSPECTION, CONTINUOUS.** THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.

**SPECIAL INSPECTION, PERIODIC.** THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.

**SPECIAL INSPECTIONS**

THE CONTRACTOR SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED HERE. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

**REPORT REQUIREMENT.** THE INSPECTOR OF RECORD AND SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE CITY, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CITY AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.

A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE CITY PRIOR TO THE START OF WORK.

**INSPECTION OF FABRICATORS.** WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR THE COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.

**STEEL CONSTRUCTION**

THE SPECIAL INSPECTIONS FOR STEEL ELEMENTS OF BUILDINGS AND STRUCTURES SHALL BE AS REQUIRED BY SECTION 1705.2 AND 1705.11.1 AND TABLE 1705.2.

**EXCEPTIONS:**

1. SPECIAL INSPECTION OF THE STEEL FABRICATION PROCESS SHALL NOT BE REQUIRED WHERE THE FABRICATOR DOES NOT PERFORM ANY WELDING, THERMAL CUTTING OR HEATING OPERATION OF ANY KIND AS PART OF THE FABRICATION PROCESS. IN SUCH CASE, THE FABRICATOR SHALL BE REQUIRED TO SUBMIT A DETAILED PROCEDURE FOR MATERIAL CONTROL THAT DEMONSTRATES THE FABRICATOR'S ABILITY TO MAINTAIN SUITABLE RECORDS AND PROCEDURES SUCH THAT, AT ANY TIME DURING THE FABRICATION PROCESS, THE MATERIAL SPECIFICATION, GRADE AND MILL TEST REPORTS FOR THE MAIN STRESS-CARRYING ELEMENTS ARE CAPABLE OF BEING DETERMINED.
2. THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDED THE MATERIALS, WELDING PROCEDURES AND QUALIFICATIONS OF WELDERS ARE VERIFIED PRIOR TO THE START OF THE WORK; PERIODIC INSPECTIONS ARE MADE OF THE WORK IN PROGRESS; AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO COMPLETION OR PRIOR TO SHIPMENT OF SHOP WELDING.
  - 2.1. SINGLE-PASS FILLET WELDS NOT EXCEEDING 5/16 INCH IN SIZE.
  - 2.2. ROOF DECK WELDING.
  - 2.3. WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGM.
  - 2.4. WELDING SHEET STEEL FOR COLD-FORMED STEEL FRAMING MEMBERS SUCH AS STUDS AND JOISTS.
  - 2.5. WELDING OF STAIRS AND RAILING SYSTEMS.

**TABLE 1705.2  
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION**

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD #
<b>1. Material verification of cold-formed steel deck:</b>			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	—	X	Applicable ASTM material standards
b. Manufacturer's certified test reports.	—	X	
<b>2. Inspection of welding:</b>			
a. Cold-formed steel deck:			
1) Floor and roof deck welds:	—	X	AISC 360, Section M2.5
b. Reinforcing steel:			
1) verification of weldability of reinforcing steel other than ASTM A706.	—	X	
2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	X	—	AWS D1.4 ACI 318; Section 5.5.2
3) Shear reinforcement.	X	—	
4) Other reinforcing steel.	—	X	

a. Where applicable, see also Section 1707.1, Special inspection for seismic resistance.

**WELDING**

WELDING INSPECTION SHALL BE IN COMPLIANCE WITH AWS D1.1. THE BASIS FOR WELDING INSPECTOR QUALIFICATION SHALL BE AWS D1.1.

**INSPECTION OF WELDING.** INSPECTION OF ALL SHOP AND FIELD WELDING OPERATIONS, INCLUDING THE INSTALLATION OF AUTOMATIC END-WELDED STUD SHEAR CONNECTORS, SHALL BE MADE BY A QUALIFIED WELDING INSPECTOR APPROVED BY THE ENFORCEMENT AGENCY. SUCH INSPECTOR SHALL BE A PERSON TRAINED AND THOROUGHLY EXPERIENCED IN INSPECTING WELDING OPERATIONS. THE INSPECTOR'S ABILITY TO DISTINGUISH BETWEEN SOUND AND UNSOUND WELDING SHALL BE RELIABLY ESTABLISHED. THE MINIMUM REQUIREMENTS FOR A QUALIFIED INSPECTOR SHALL BE AS THOSE FOR AN AWS-CERTIFIED WELDING INSPECTOR (CWI), AS DEFINED IN THE PROVISIONS OF THE AWS QC1. ALL WELDING INSPECTORS SHALL BE AS APPROVED BY THE ENFORCEMENT AGENCY.

THE ABILITY OF EACH WELDER TO PRODUCE SOUND WELDS OF ALL TYPES REQUIRED BY THE WORK SHALL BE ESTABLISHED BY WELDER QUALIFICATION SATISFACTORY TO THE ENFORCEMENT AGENCY.

WELDING INSPECTION OF STRUCTURAL WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1, EXCEPT AS MODIFIED BY THIS SECTION.

THE WELDING INSPECTOR SHALL MAKE A SYSTEMATIC RECORD OF ALL WELDS. THIS RECORD SHALL INCLUDE IN ADDITION TO OTHER REQUIRED RECORDS:

1. IDENTIFICATION MARKS OF WELDERS.
2. LIST OF DEFECTIVE WELDS.
3. MANNER OF CORRECTION OF DEFECTS.

THE WELDING INSPECTOR SHALL CHECK THE MATERIAL, EQUIPMENT, DETAILS OF CONSTRUCTION AND PROCEDURE, AS WELL AS THE WELDER. THE INSPECTOR SHALL ALSO CHECK THE ABILITY OF THE WELDER. THE INSPECTOR SHALL VERIFY THAT THE INSTALLATION PROCEDURE FOR AUTOMATIC END-WELDED STUD SHEAR CONNECTORS IS IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.1 AND THE APPROVED PLANS AND SPECIFICATIONS. THE INSPECTOR SHALL FURNISH THE ARCHITECT, STRUCTURAL ENGINEER AND THE ENFORCEMENT AGENCY WITH A VERIFIED REPORT THAT THE WELDING IS PROPER AND HAS BEEN DONE IN CONFORMANCE WITH AWS D1.1 AND THE APPROVED PLANS AND SPECIFICATIONS. THE INSPECTOR SHALL USE ALL MEANS NECESSARY TO DETERMINE THE QUALITY OF THE WELD. THE INSPECTOR MAY USE GAMMA RAY, MAGNIFIED, TREPANNING, SONICS OR ANY OTHER AID TO VISUAL INSPECTION WHICH THE INSPECTOR MAY DEEM NECESSARY TO BE ASSURED OF THE ADEQUACY OF THE WELDING.

**NON-DESTRUCTIVE TESTING (NDT)**

100% OF BEAM FLANGE WELDS SHALL BE TESTED WITH RECEIVE ULTRASONIC TESTING PERFORMED BY QUALITY ASSURANCE PERSONNEL. THE WELDING TESTING SHALL CONFORM TO THE REQUIREMENTS OF AISC 431 APPENDIX Q SECTION Q5.2.

THE WELD PROCEDURE SHALL BE REVIEWED AND APPROVED BY THE PROJECT ENGINEER OF RECORD. COPIES OF THE NDT REPORTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR UPON MOMENT FRAME INSPECTION.

**DETAILS**

THE SPECIAL INSPECTOR SHALL PERFORM AN INSPECTION OF THE STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS, SUCH AS BRACING, STIFFENING, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.

**INSPECTION OF SHOP FABRICATION.** INSPECTION OF SHOP FABRICATION SHALL BE REQUIRED FOR SIGNIFICANT STRUCTURAL DETAILED CONNECTION AND FABRICATION WORK AS DIRECTED BY THE ENFORCEMENT AGENCY. THIS INSPECTION SHALL BE MADE BY A QUALIFIED INSPECTOR APPROVED BY THE ENFORCEMENT AGENCY. THE INSPECTOR SHALL FURNISH THE ARCHITECT, STRUCTURAL ENGINEER AND THE ENFORCEMENT AGENCY WITH A REPORT THAT THE MATERIALS AND WORKMANSHIP CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS.

**HIGH-STRENGTH BOLTS**

INSTALLATION OF HIGH-STRENGTH BOLTS SHALL BE PERIODICALLY INSPECTED IN ACCORDANCE WITH AISC SPECIFICATIONS.

**GENERAL.** WHILE THE WORK IS IN PROCESS, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE REQUIREMENTS FOR BOLTS, NUTS, WASHERS AND PAINT; BOLTED PARTS AND INSTALLATION AND TIGHTENING IN SUCH STANDARDS ARE MET. FOR BOLTS REQUIRING PRETENSIONING, THE SPECIAL INSPECTOR SHALL OBSERVE THE PREINSTALLATION TESTING AND CALIBRATION PROCEDURES WHEN SUCH PROCEDURES ARE REQUIRED BY THE INSTALLATION METHOD OR BY PROJECT PLANS OR SPECIFICATIONS; DETERMINE THAT ALL PILES OF CONNECTED MATERIALS HAVE BEEN DRAWN TOGETHER AND PROPERLY SNUGGED AND MONITOR THE INSTALLATION OF BOLTS TO VERIFY THAT THE SELECTED PROCEDURE FOR INSTALLATION OF BOLTS TO VERIFY THAT THE SELECTED PROCEDURE FOR INSTALLATION IS PROPERLY USED TO TIGHTEN BOLTS. FOR JOINTS REQUIRED TO BE TIGHTENED ONLY TO THE SNUG-TIGHT CONDITION, THE SPECIAL INSPECTOR NEED ONLY VERIFY THAT THE CONNECTED MATERIALS HAVE BEEN DRAWN TOGETHER AND PROPERLY SNUGGED.

**PERIODIC MONITORING.** MONITORING OF BOLT INSTALLATION FOR PRETENSIONING IS PERMITTED TO BE PERFORMED ON A PERIODIC BASIS WHEN USING THE TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT TENSION INDICATOR METHOD OR THE ALTERNATE DESIGN FASTENER (TWIST-OFF BOLT) METHOD. JOINTS DESIGNATED AS SNUG TIGHT NEED BE INSPECTED ONLY ON A PERIODIC BASIS.

**CONTINUOUS MONITORING.** MONITORING OF BOLT INSTALLATION FOR PRETENSIONING USING THE CALIBRATED WRENCH METHOD OR THE TURN-OF-NUT METHOD WITHOUT MATCHMARKING SHALL BE PERFORMED ON A CONTINUOUS BASIS.

**CONCRETE CONSTRUCTION**

THE SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED BY THE SECTION 1705.3 AND TABLE 1705.3.

**MATERIALS.** IN THE ABSENCE OF SUFFICIENT DATA OR DOCUMENTATION PROVIDING EVIDENCE OF CONFORMANCE TO QUALITY STANDARDS FOR MATERIALS IN CHAPTER 3 OF ACI 318, THE BUILDING OFFICIAL SHALL REQUIRE TESTING OF MATERIALS IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND CRITERIA FOR THE MATERIAL IN CHAPTER 3 OF ACI 318. WELDABILITY OF REINFORCEMENT, EXCEPT THAT WHICH CONFORMS TO ASTM A706, SHALL BE DETERMINED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 5.5.2 OF ACI 318.

**BATCH PLANT INSPECTION.** THE QUALITY AND QUANTITY OF MATERIALS USED IN TRANSIT-MIXED CONCRETE AND IN BATCHED AGGREGATES SHALL BE CONTINUOUSLY INSPECTED AT THE LOCATION WHERE MATERIALS ARE MEASURED BY AN APPROVED SPECIAL INSPECTOR.

**WAIVER OF BATCH PLANT INSPECTION.** BATCH PLANT INSPECTION MAY BE WAIVED UNDER EITHER OF THE FOLLOWING CONDITIONS:

1. THE CONCRETE PLANT COMPLIES FULLY WITH THE REQUIREMENTS OF ASTM C 94, SECTIONS 8 AND 9, AND HAS A CURRENT CERTIFICATE FROM THE NATIONAL READY-MIXED CONCRETE ASSOCIATION OR ANOTHER AGENCY ACCEPTABLE TO THE ENFORCEMENT AGENCY. THE CERTIFICATION SHALL INDICATE THAT THE PLANT HAS AUTOMATIC BATCHING AND RECORDING CAPABILITIES.

WHEN BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS SHALL APPLY AND SHALL BE DESCRIBED IN THE CONTRACT SPECIFICATIONS.

1. APPROVED INSPECTOR OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCHING AT THE START OF REQUIRED WORK AND FURNISH MIX PROPORTIONS TO THE LICENSED WEIGHMASTER.
2. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A TICKET.
3. TICKETS SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE INSPECTOR WILL NOT ACCEPT THE LOAD WITHOUT A LOAD TICKET IDENTIFYING THE MIX AND WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD AND TIME OF RECEIPT AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.
4. AT THE END OF THE PROJECT, THE WEIGHMASTER SHALL FURNISH AN AFFIDAVIT TO THE ENFORCEMENT AGENCY CERTIFYING THAT ALL CONCRETE FURNISHED CONFORMS IN EVERY PARTICULAR TO PROPORTIONS ESTABLISHED BY MIX DESIGNS.

**TABLE 1705.3  
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION**

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD #	IBC REFERENCE
1. Inspection of reinforcing steel, including prestressing tendons, and placement.	—	X	ACI318: 3.5, 7.1-7.7	1904.4
2. Inspection of reinforcing steel welding in accordance with Table 705.2.2, Item 2b.	—	—	AWS D1.4 ACI318:5.5.2	—
3. Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used.	—	X	ACI318: 8.1.3, 21.2.8	1908.5, 1909.1
4. Inspection of anchors post-installed in hardened concrete members <sup>a</sup> .	—	X	ACI318: 8.8.6, 8.1.3, 21.2.8	1909.1
5. Verifying use of required design mix.	—	X	ACI318: Ch. 4.5-2-5.4	1904A.2, 1910.2, 1910.3
6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	—	ASTM C 172 ASTM C 31 ACI318:6.5.3	190.10
7. Inspection of concrete and shotcrete placement for proper application techniques.	X	—	ACI318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. Inspection for maintenance of specified curing temperature and techniques.	—	X	ACI318: 5.11-5.13	190.9
9. Inspection of prestressed concrete: a. Application of prestressing forces. b. Grouting of bonded prestressing tendons in the seismic force-resisting system.	X	—	ACI318: 18.20 ACI318: 18.18.4	—
10. Erection of precast concrete members.	—	X	ACI318: Ch. 16	190.9
11. verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	—	X	ACI318:6.2	—
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	X	ACI318:6.1.1	—

a. Where applicable, see also Section 1705.11, Special inspection for seismic resistance.

b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 553.2 or other qualification provisions. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

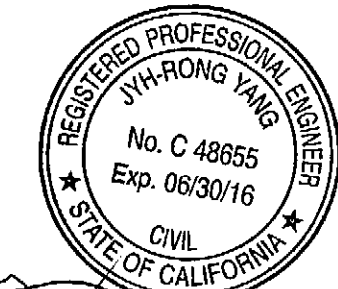
**SUBMIT TO ENGINEER FOR REVIEW:**

1. STRUCTURAL STEEL SHOP DRAWINGS
2. STRUCTURAL STEEL CERTIFICATE
3. WELDING PROCEDURE SPECIFICATION
4. WELDER CERTIFICATE

RECEIVED  
DATE: 3/28/2014  
BY: [Signature]  
PROJECT: GE2382  
SHEET: S0.1



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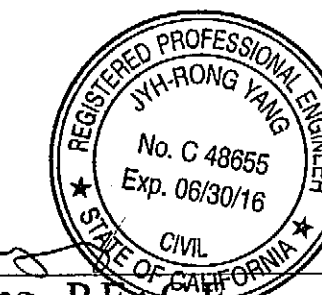
Jerry Yang, P.E.; G.E.

**OWNER:**  
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Green Oak Builders Inc.  
888 Brannan St. #101  
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Tel : 510-928-7888

Project Name and Address  
**NEW MIXED-USE BUILDING**  
35th St. & School St.  
Oakland, CA

Sheet Title  
**TESTING AND SPECIAL INSPECTION**

Project: **GE2382** Sheet  
Date: **3/28/2014** **S0.1**  
Scale:



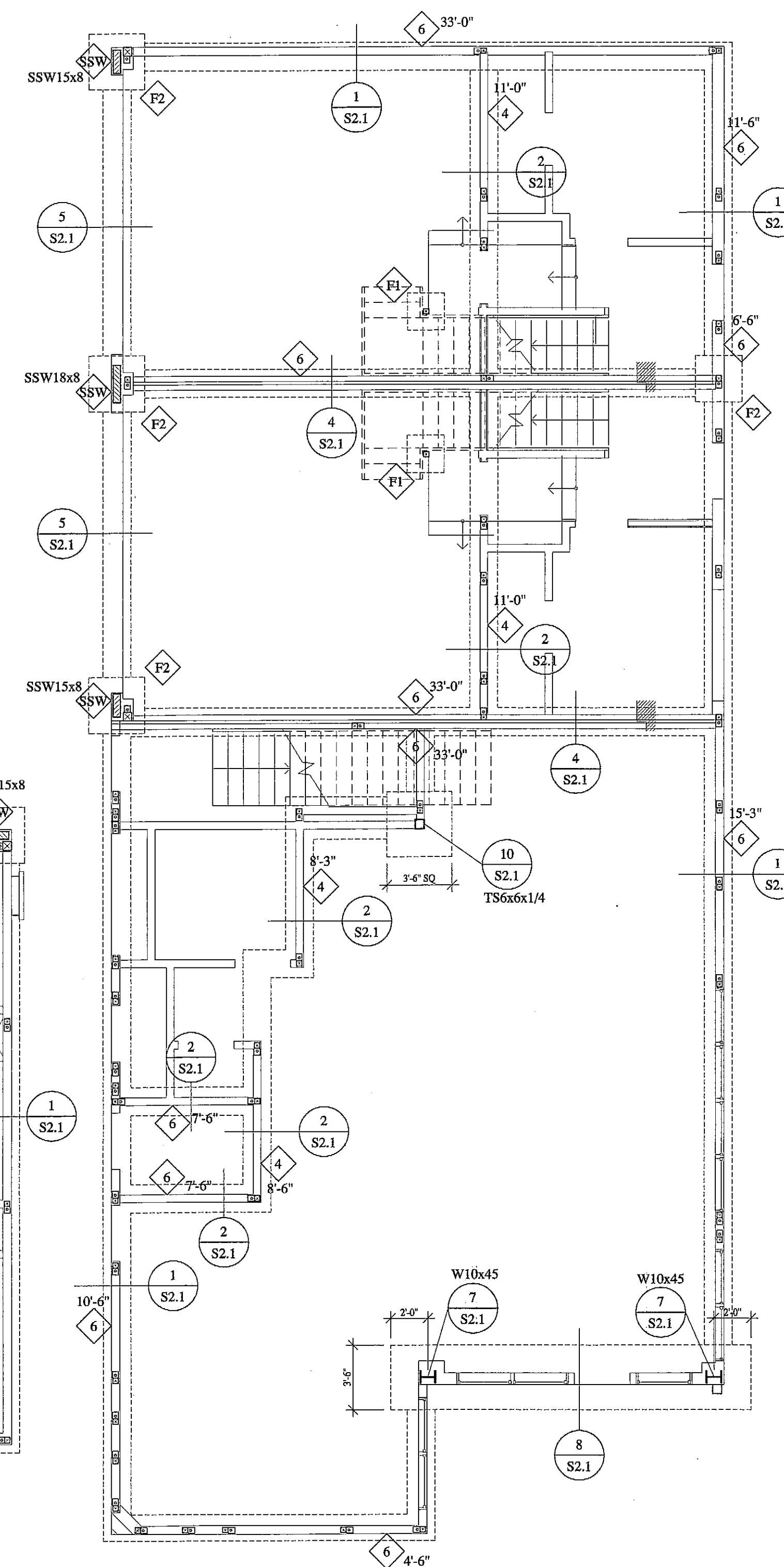
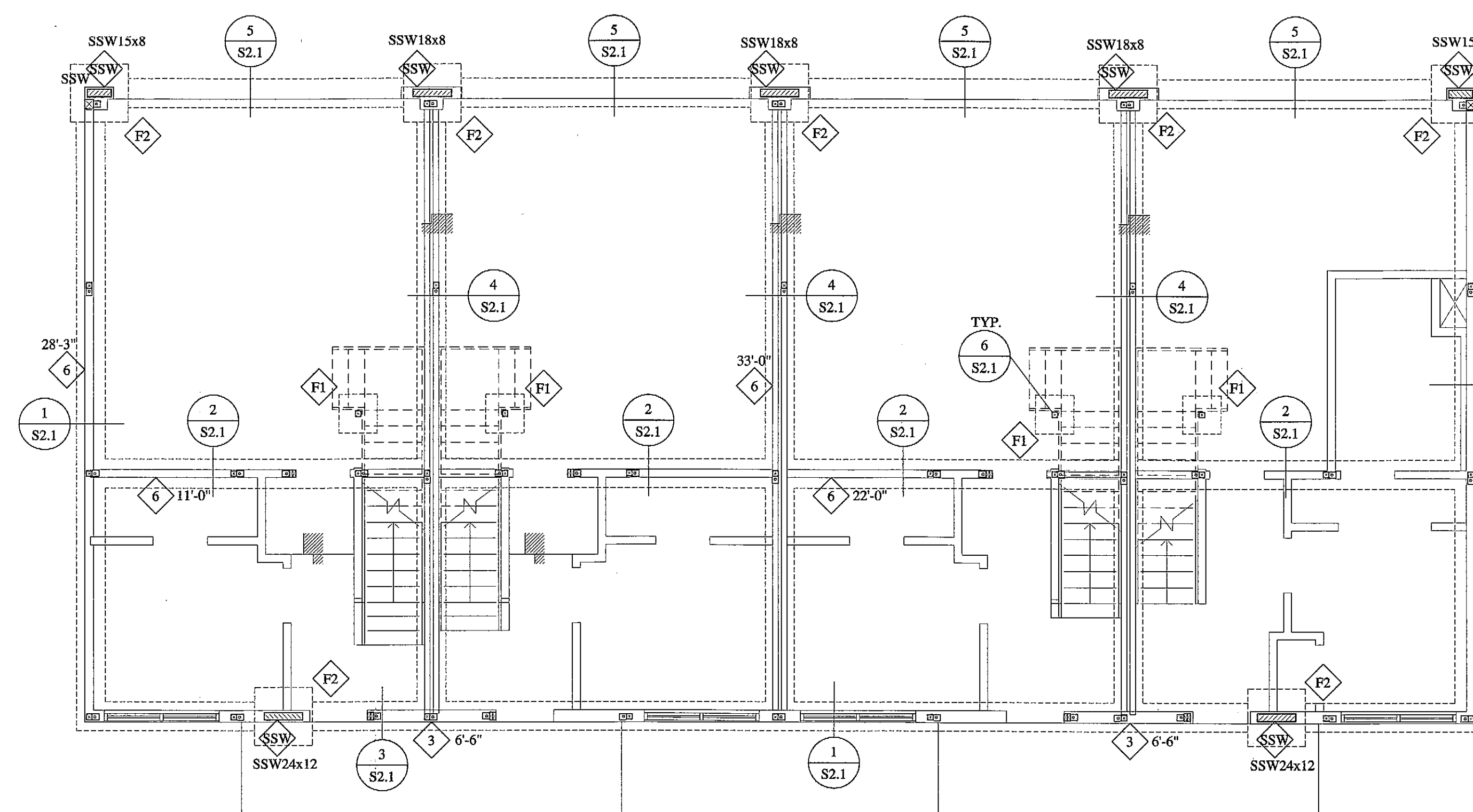
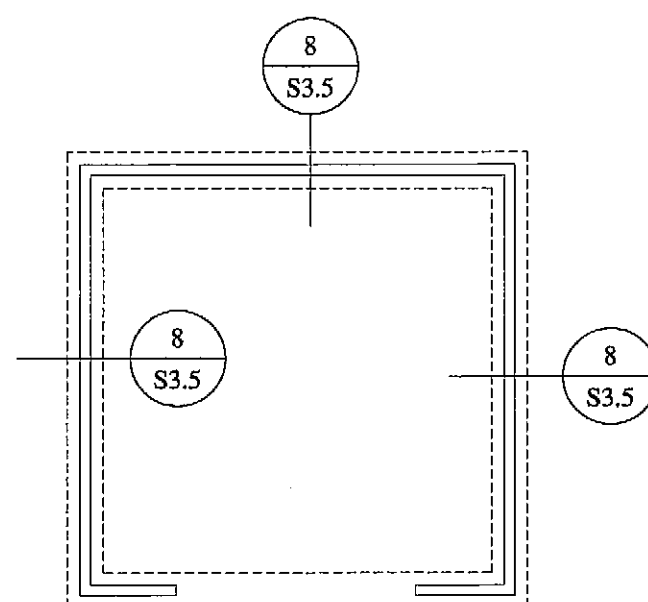
Jerry Yang, P.E.

OWNER:  
Ms. Mona Hsieh  
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888 Brannan St. #101  
San Francisco, CA 94103  
Tel : 510-928-7888

**FOUNDATION PLAN**

SCALE: 1/8" = 1'-0"

**PLAN NOTES:**  
SEE S-0 FOR GENERAL NOTES AND TYPICAL DETAILS.  
ALL NEW POSTS SHOWN ON PLAN TO BE 6x6 D.F. NO. 1, U.O.N.  
ALL NEW WALL STUDS TO BE 2x6 D.F. NO. 2 AT 16" O.C. U.O.N.  
SEE GENERAL NOTES FOR ROOF & FLOOR SHEATHING SPECIFICATION AND DETAIL 4/S2.4 FOR NAILING PER DETAIL 3/S2.5 FOR HEADER FRAMING DETAIL AND SIZE. U.O.N.  
◇ X-Y DENOTES SHEAR WALL AT MAIN FLOOR.  
X-Y DENOTES THE MINIMUM LENGTH OF THE SHEAR WALL PER S.W. SCHEDULE AT 1/S2.4  
■ DENOTES HOLD-DOWN ON CONCRETE.  
SEE DETAIL 3/S2.4 AND 12/S2.4 FOR HDU4 ON NEW CONCRETE AND SEE DETAIL 12/S2.6 FOR HDU2 ON EXISTING CONCRETE. U.O.N.  
HOT-DIPPED GALVANIZED STEEL OR STAINLESS STEEL FASTENERS (i.e., NAILS, SCREWS, A.B. HANGERS, ETC.) MUST BE USED WHEN DIRECTLY IN CONTACT WITH PRESSURE-TREATED LUMBERS.  
PER DETAIL 8/S2.5 FOR NON STRUCTURAL PARTITION CONNECTION PER DETAIL 8/S2.6 FOR EXISTING OPENING INFILL.



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FOOTING SCHEDULE			
MARK	SIZE AND DEPTH	REINFORCING	REFERENCE DETAIL
◇ F1	2'-6"x2'-6"x18" DEEP	4-#4 AT EA. WAY (T&B)	4/S2.2
◇ F2	3'-0"x3'-0"x18" DEEP	4-#5 AT EA. WAY (T&B)	5/S2.2 & 6/S2.2
◇ F3	3'-6"x3'-6"x18" DEEP	5-#5 AT EA. WAY (T&B)	5/S2.2 & 6/S2.2

**APPLICANT COPY**

No.	Date

Project Name and Address  
**NEW MIXED-USE BUILDING**  
35th St. & School St.  
Oakland, CA

Sheet Title  
**FOUNDATION PLAN**

Project	GE2382	Sheet	
Date	3/28/2014		S1.1
Scale			



Jerry Yang, P.E.; G.E.

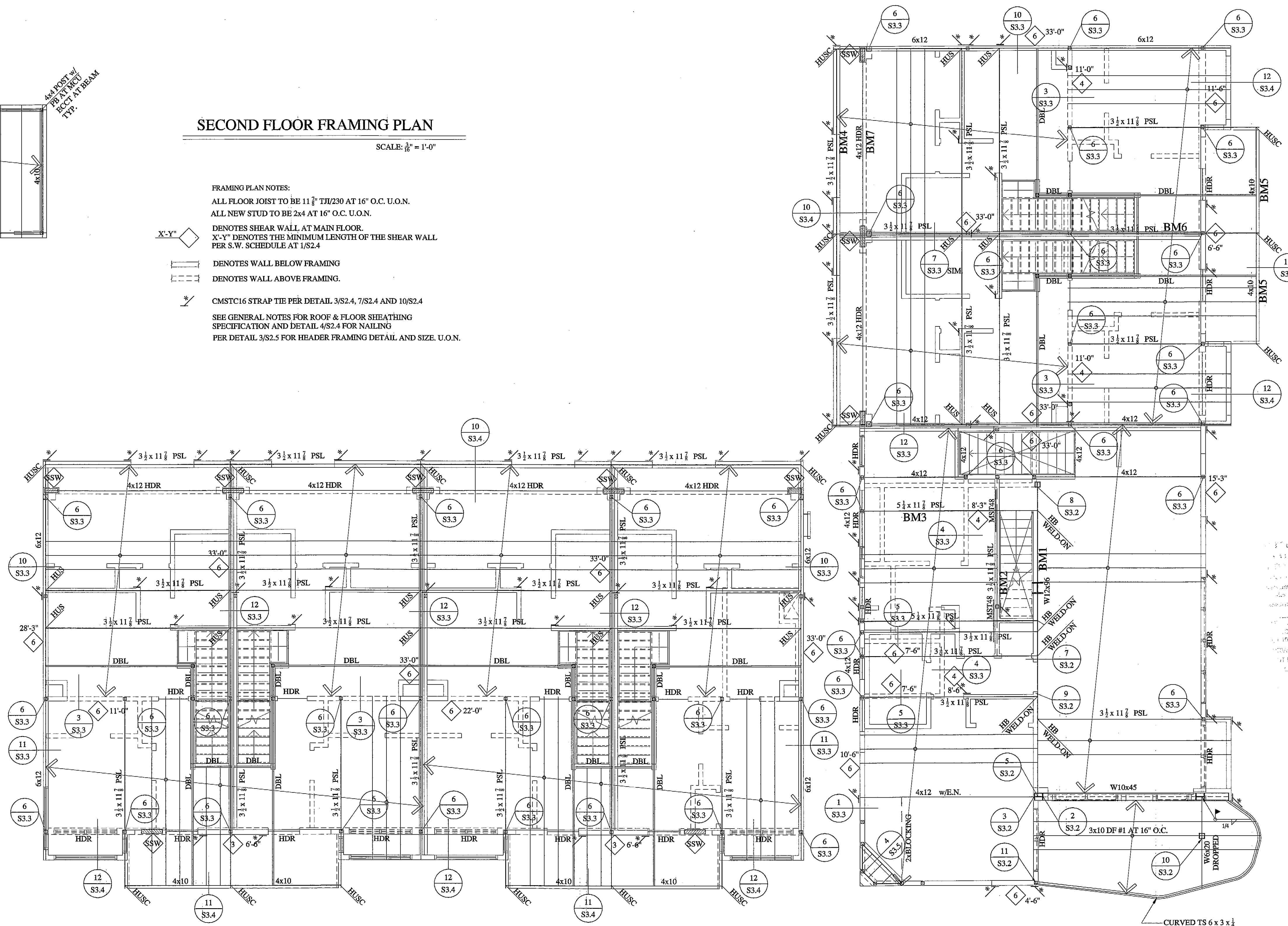
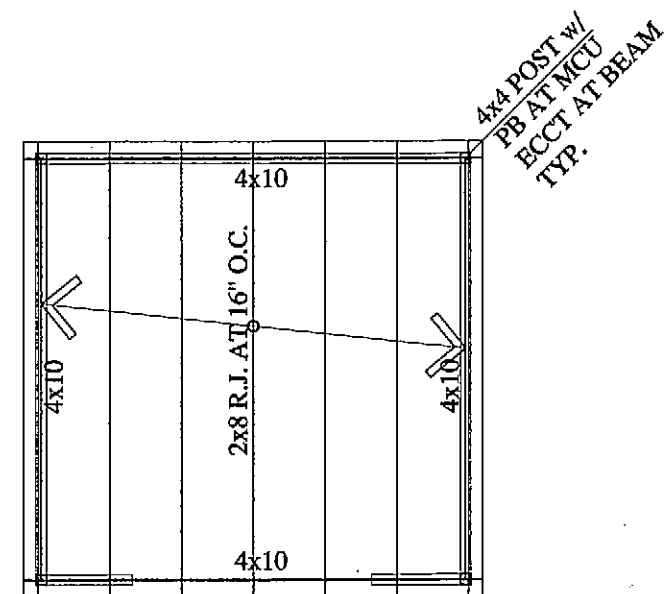
OWNER:  
Ms. Mona Hsieh  
Green Oak Builders Inc.  
888 Brannan St. #101  
San Francisco, CA 94103  
Tel: 510-928-7888

**SECOND FLOOR FRAMING PLAN**

SCALE: 1/8" = 1'-0"

FRAMING PLAN NOTES:

- ALL FLOOR JOIST TO BE 11 1/2" TJI/230 AT 16" O.C. U.O.N.
- ALL NEW STUD TO BE 2x4 AT 16" O.C. U.O.N.
- ◇ X-Y DENOTES SHEAR WALL AT MAIN FLOOR.
- ◇ X-Y DENOTES THE MINIMUM LENGTH OF THE SHEAR WALL PER S.W. SCHEDULE AT 1/2 S2.4
- DENOTES WALL BELOW FRAMING.
- - - DENOTES WALL ABOVE FRAMING.
- \* CMSTC16 STRAP TIE PER DETAIL 3/S2.4, 7/S2.4 AND 10/S2.4
- SEE GENERAL NOTES FOR ROOF & FLOOR SHEATHING SPECIFICATION AND DETAIL 4/S2.4 FOR NAILING PER DETAIL 3/S2.5 FOR HEADER FRAMING DETAIL AND SIZE. U.O.N.



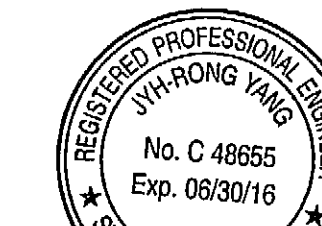
PROVIDE  
SHEAR WALL AND  
COLUMN REINFORCEMENT  
DETAILS AS SHOWN  
ON SHEETS 10/2.1  
AND 10/2.2. CHECK WITH  
ARCHITECT FOR  
CONCRETE WALL  
REINFORCEMENT  
DETAILS APPROVAL.  
THIS CODE  
SECTION 10/2.2  
AND 10/2.3  
REVIEW ONLY  
FOR LAYOUT  
AND  
CONTROL  
KEEP TO  
THIS PLAN

No.	Date

Project Name and Address  
**NEW MIXED-USE BUILDING**  
35th St. & School St.  
Oakland, CA

Sheet Title  
**SECOND FLOOR  
FRAMING PLAN**

Project	GE2382	Sheet	
Date	3/28/2014		S1.2
Scale			



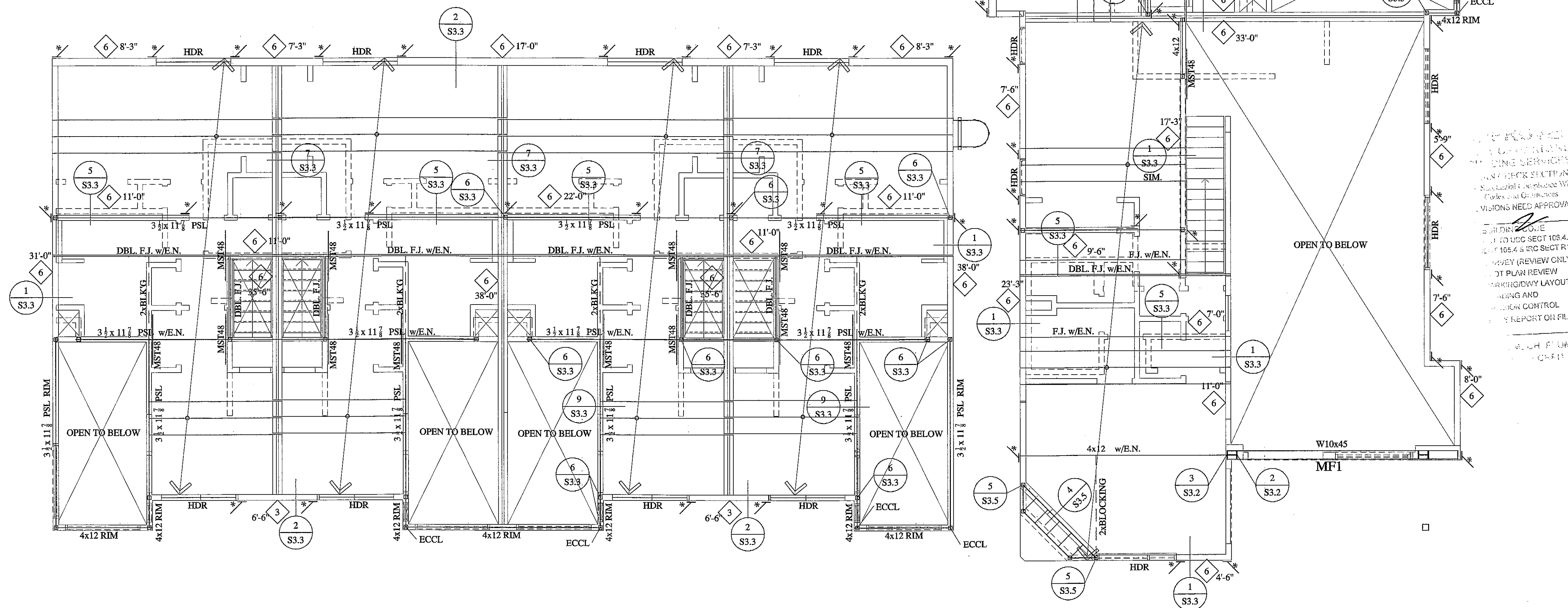
Jerry Yang, P.E., C.E.

**OWNER:**  
Ms. Mona Hsieh  
Green Oak Builders Inc.  
888 Brannan St. #101  
San Francisco, CA 94103  
Tel: 510-928-7888

**THIRD FLOOR FRAMING PLAN**

SCALE: 1/8" = 1'-0"

- FRAMING PLAN NOTES:**  
ALL FLOOR JOIST TO BE 11" T/230 AT 16" O.C. U.O.N.  
ALL NEW STUD TO BE 2x4 AT 16" O.C. U.O.N.  
X-Y" DENOTES SHEAR WALL AT MAIN FLOOR.  
X-Y" DENOTES THE MINIMUM LENGTH OF THE SHEAR WALL PER S.W. SCHEDULE AT 1/82.4  
--- DENOTES WALL BELOW FRAMING  
- - - DENOTES WALL ABOVE FRAMING  
CMSTC16 STRAP TIE PER DETAIL 3/82.4, 7/82.4 AND 10/82.4  
SEE GENERAL NOTES FOR ROOF & FLOOR SHEATHING SPECIFICATION AND DETAIL 4/82.4 FOR NAILING PER DETAIL 3/82.5 FOR HEADER FRAMING DETAIL AND SIZE. U.O.N.



THIS PLAN IS THE PROPERTY OF GTC CONSULTANTS, INC. AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REUSE, REPRODUCTION, OR DISTRIBUTION OF THIS PLAN WITHOUT THE WRITTEN PERMISSION OF GTC CONSULTANTS, INC. IS STRICTLY PROHIBITED. VIOLATIONS WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.

DATE: 3/28/2014  
DRAWN BY: JY  
CHECKED BY: JY

No.	Date

Project Name and Address  
**NEW MIXED-USE BUILDING**  
35th St. & School St.  
Oakland, CA

Sheet Title  
**THIRD FLOOR FRAMING PLAN**

Project	GE2382	Sheet	
Date	3/28/2014		S1.3
Scale			



Jerry Yang, P.E.; C.E.

OWNER:  
Ms. Mona Hsieh  
Green Oak Builders Inc.  
888 Brannan St. #101  
San Francisco, CA 94103  
Tel : 510-928-7888

**ROOF FRAMING PLAN**

SCALE: 1/8" = 1'-0"

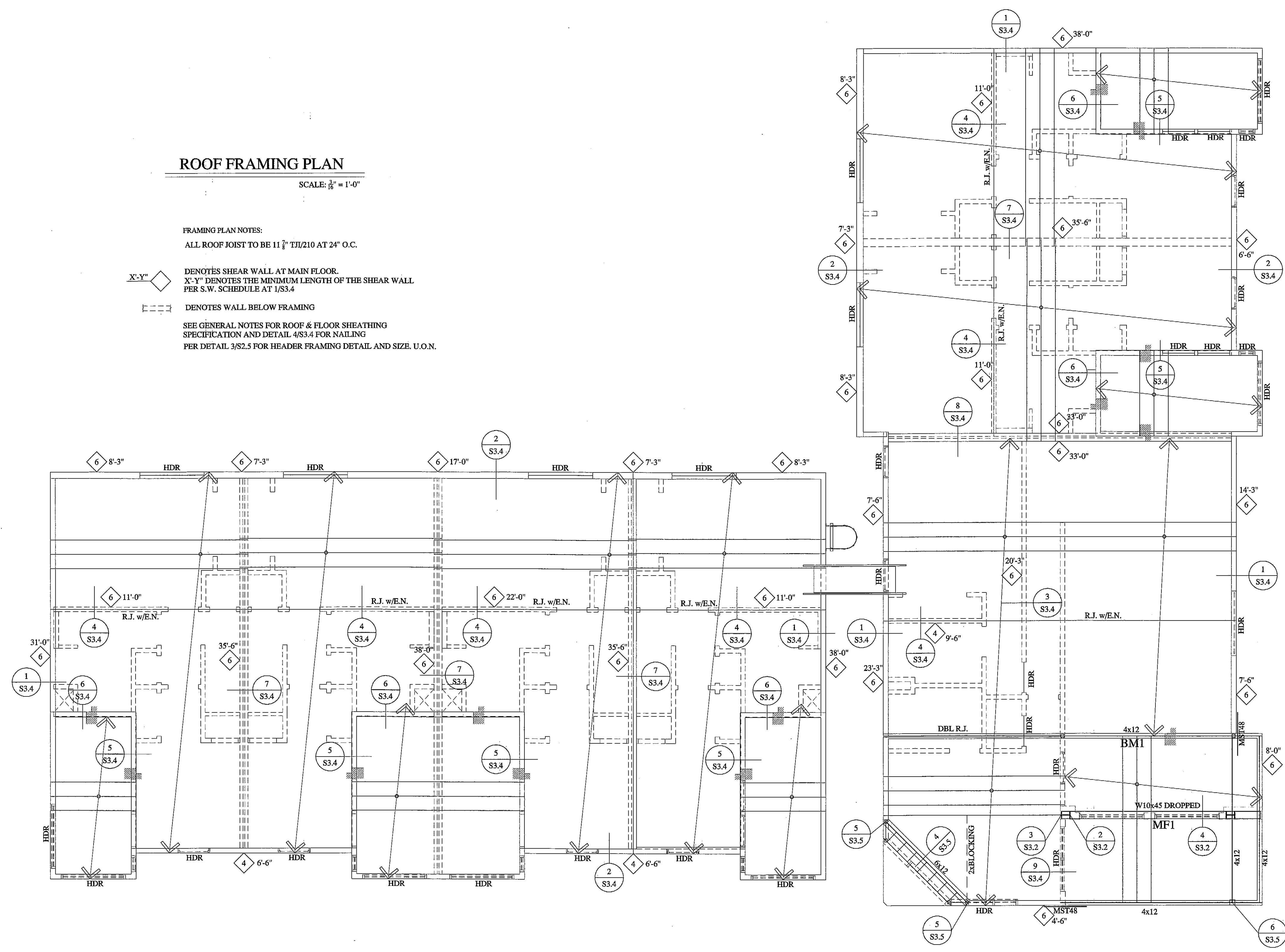
FRAMING PLAN NOTES:

ALL ROOF JOIST TO BE 11" TJI210 AT 24" O.C.

X-Y DENOTES SHEAR WALL AT MAIN FLOOR.  
X'-Y' DENOTES THE MINIMUM LENGTH OF THE SHEAR WALL  
PER S.W. SCHEDULE AT 1/S3.4

--- DENOTES WALL BELOW FRAMING

SEE GENERAL NOTES FOR ROOF & FLOOR SHEATHING  
SPECIFICATION AND DETAIL 4/S3.4 FOR NAILING  
PER DETAIL 3/S2.5 FOR HEADER FRAMING DETAIL AND SIZE U.O.N.



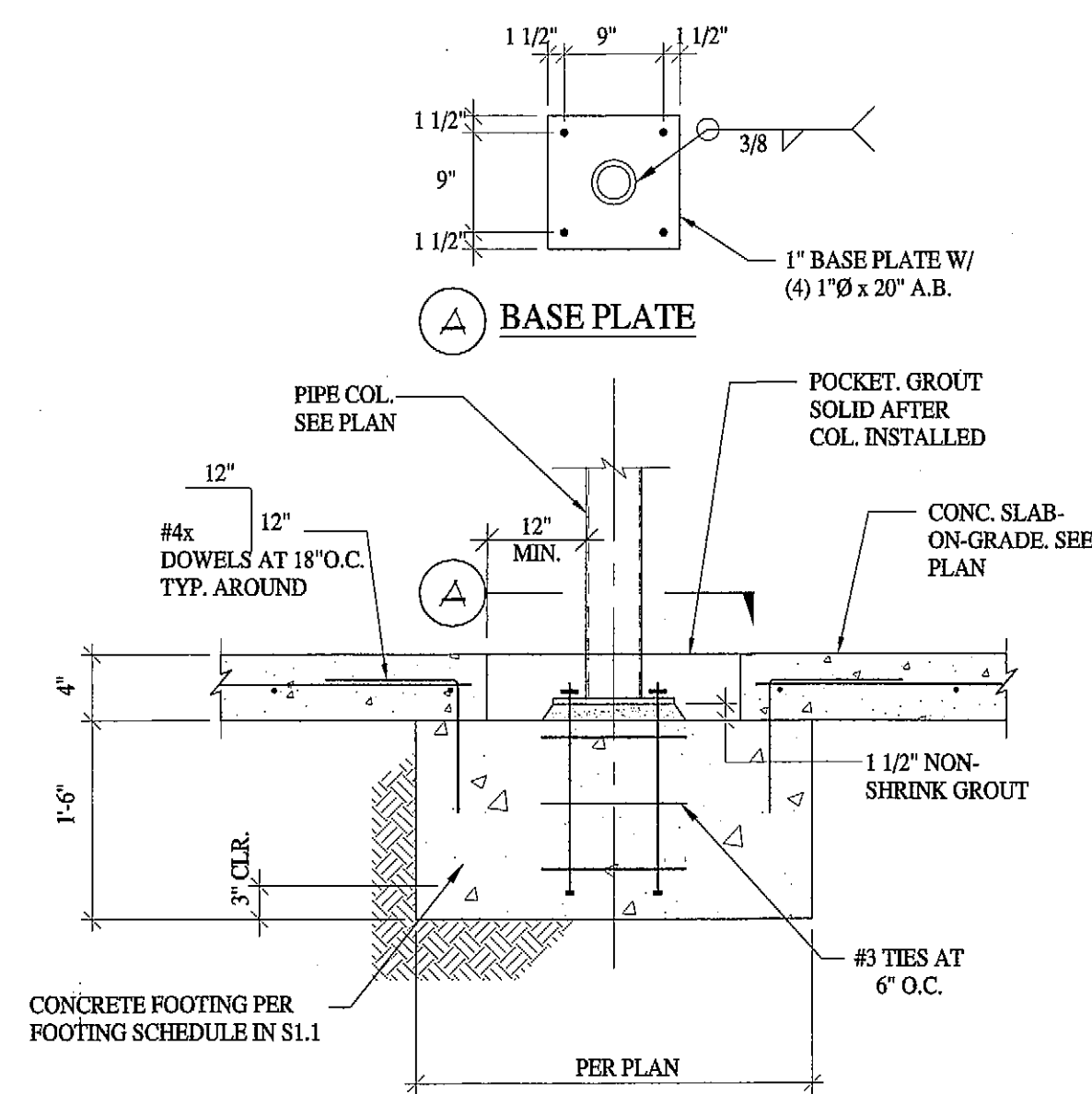
NOT TO SCALE  
FOR REVIEW ONLY  
NO WARRANTIES OR GUARANTEES  
NO LIABILITY FOR DAMAGES  
WORKING KEEP APPROVAL  
BUILDING CODE  
CITY OF OAKLAND SECTION 106.4.3  
SECTION 106.4.4 IRC SECTION 106.4.6  
SURVEY (REVIEW ONLY)  
PLOT PLAN PER CITY  
PARTIAL PERMIT  
DATE: 3/28/2014

No.	Date
-----	------

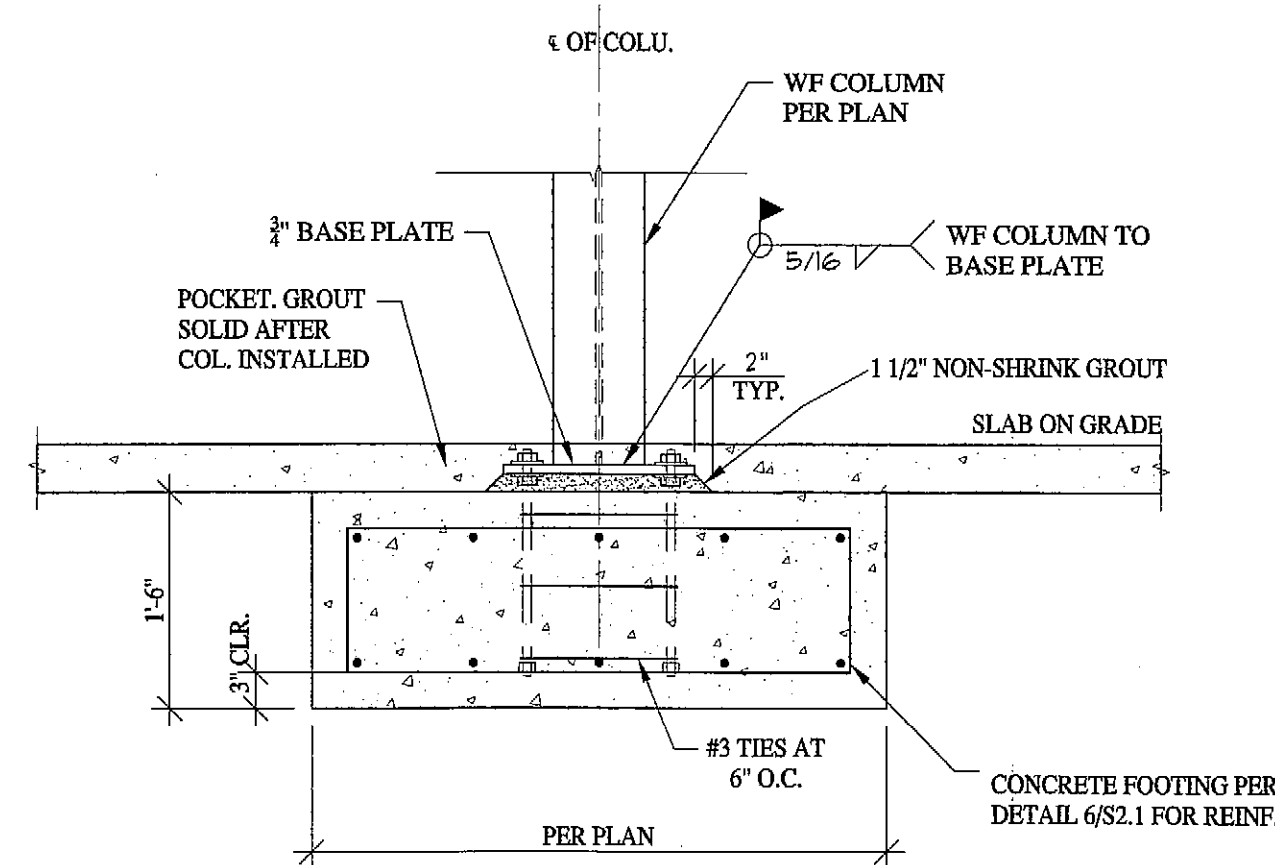
Project Name and Address  
**NEW MIXED-USE BUILDING**  
35th St. & School St.  
Oakland, CA

Sheet Title  
**ROOF FRAMING PLAN**

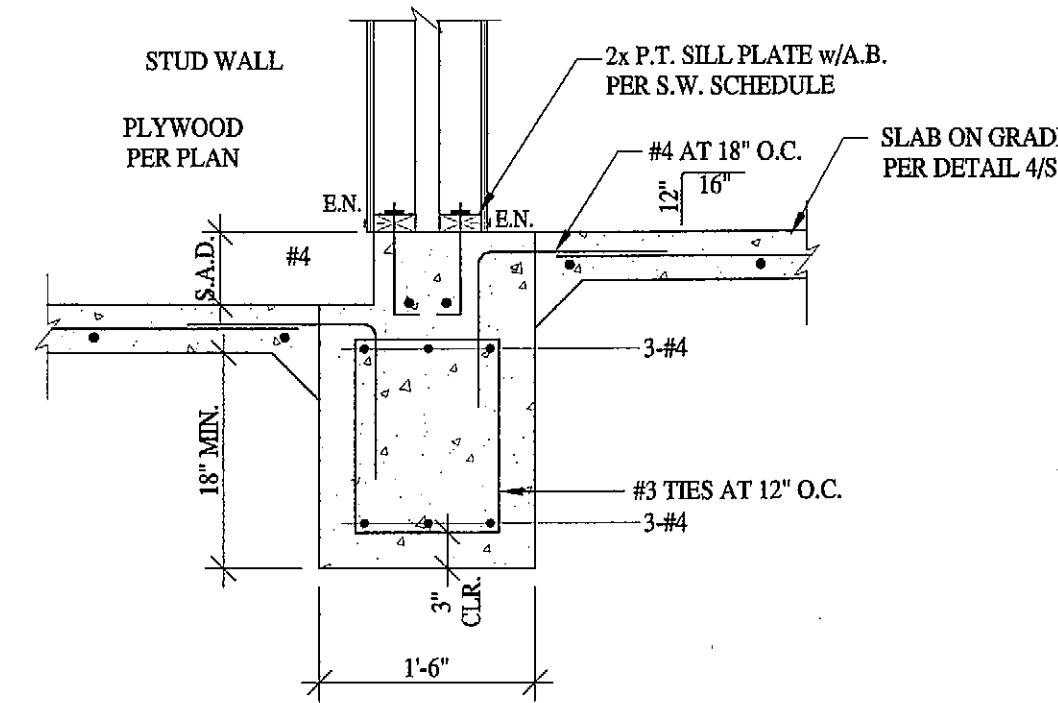
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Date	3/28/2014		S1.4
Scale			



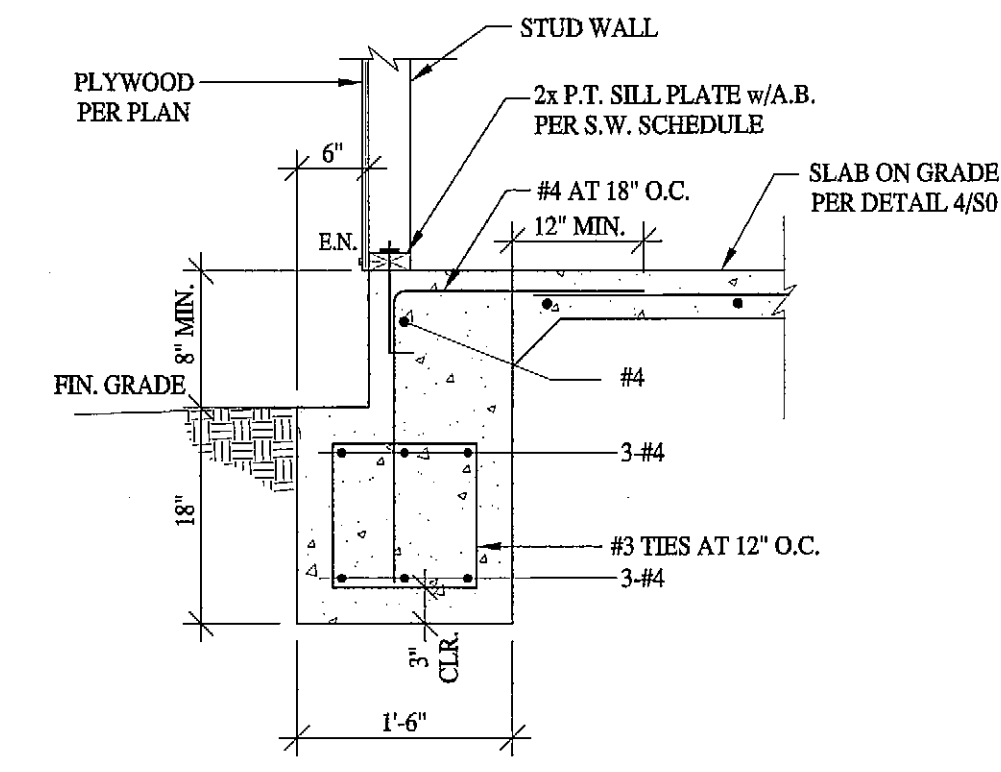
STEEL PIPE COLUMN FOOTING 10



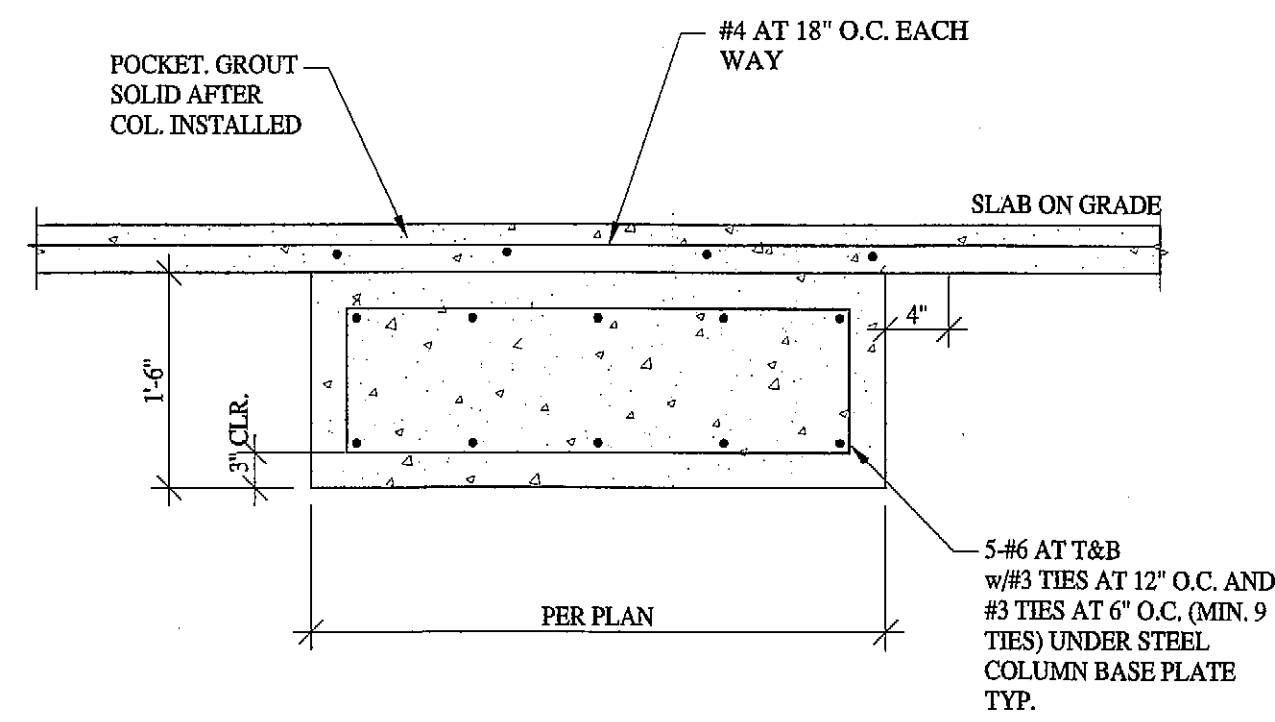
WF COLUMN ANCHORAGE IN CONCRETE 7



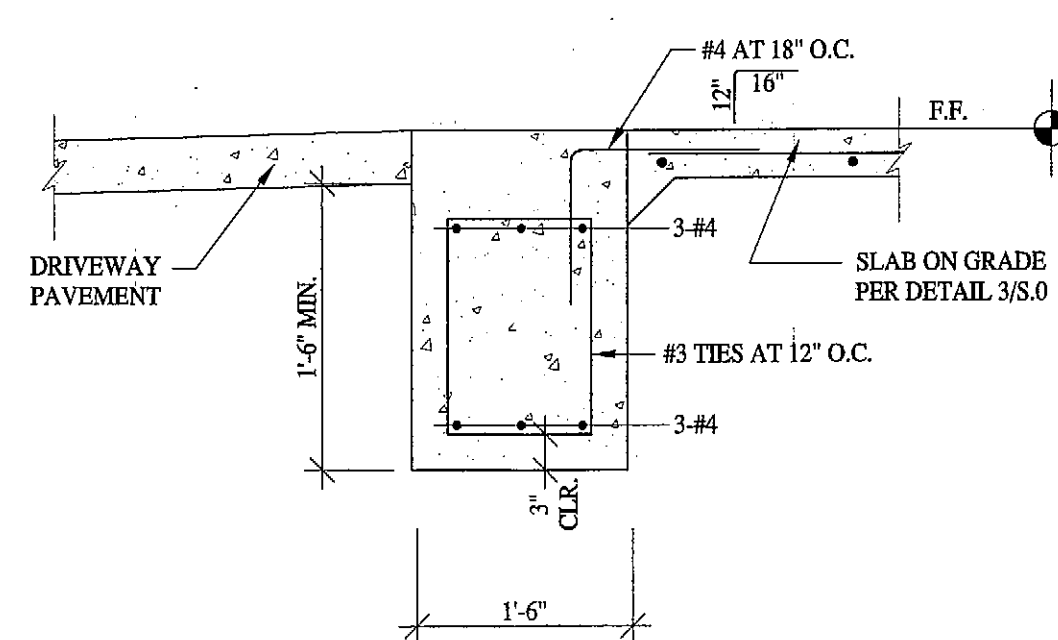
INTERIOR WALL FOOTING 4



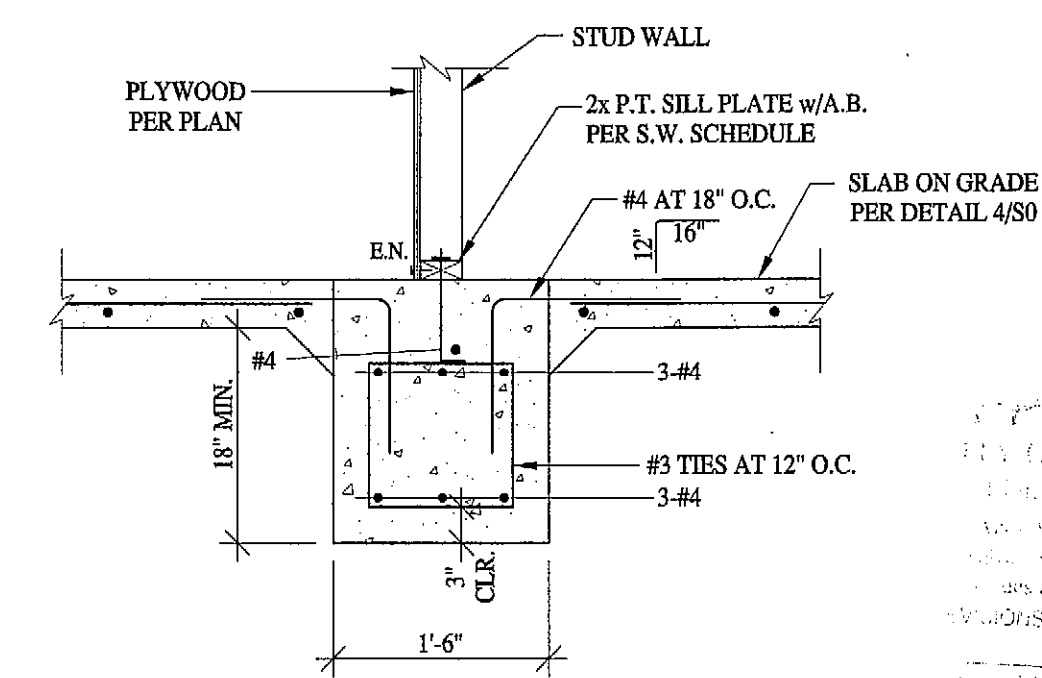
EXTERIOR WALL FOOTING 1



(N) CONCRETE TIE BEAM 8

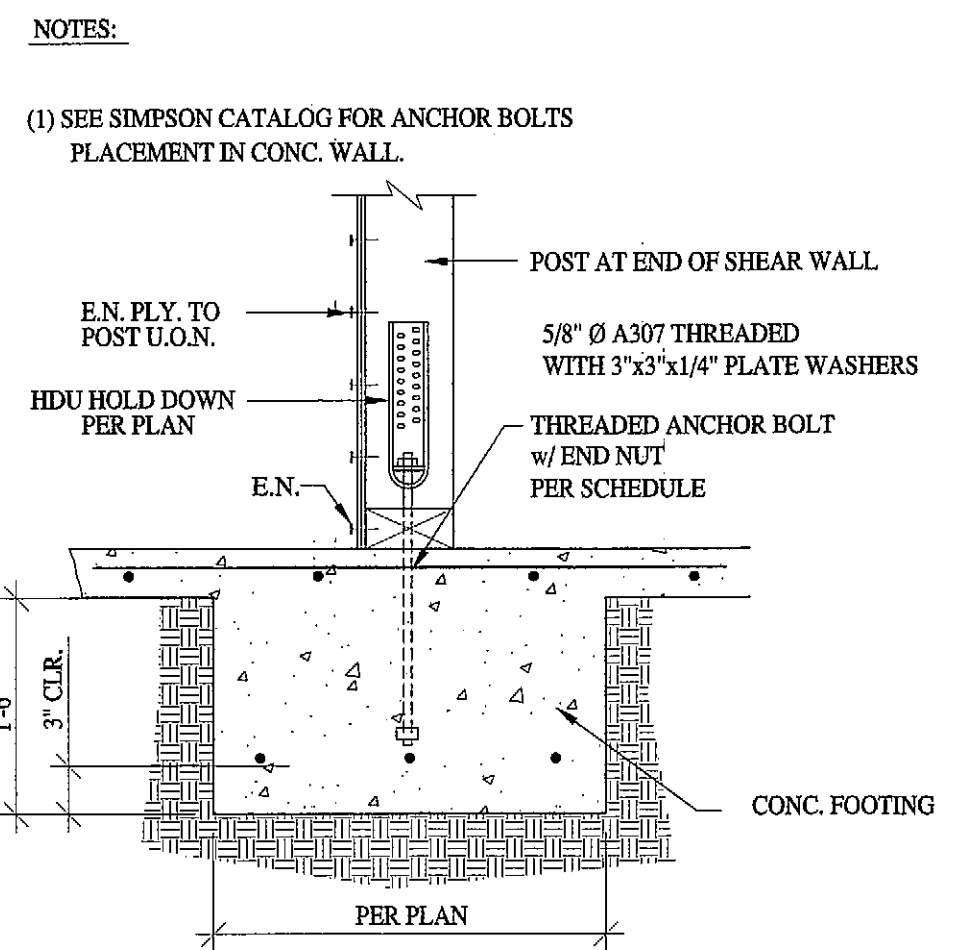


FOOTING AT GARAGE ENTRY 5

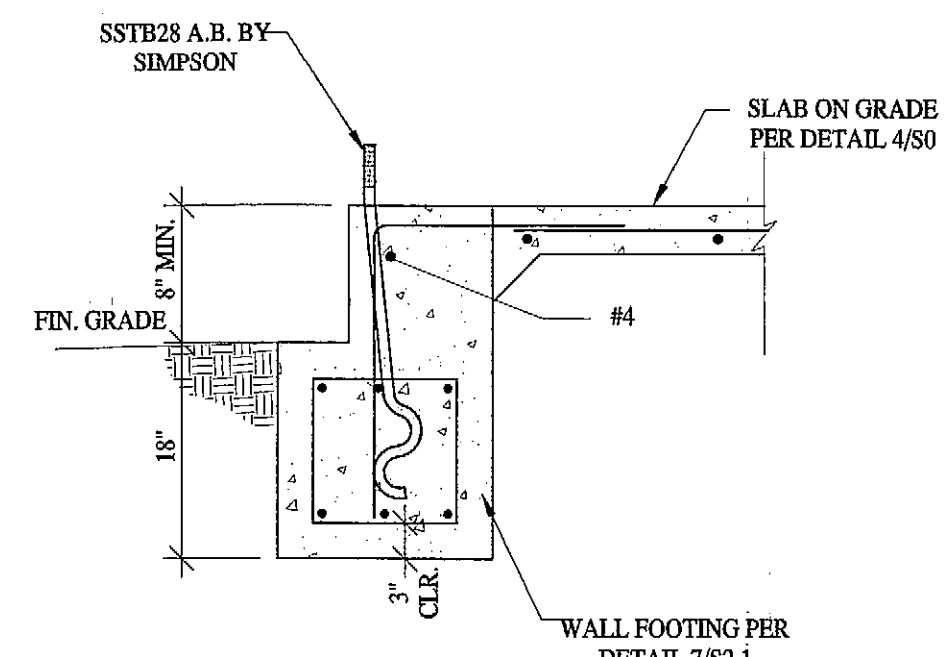


INTERIOR WALL FOOTING 2

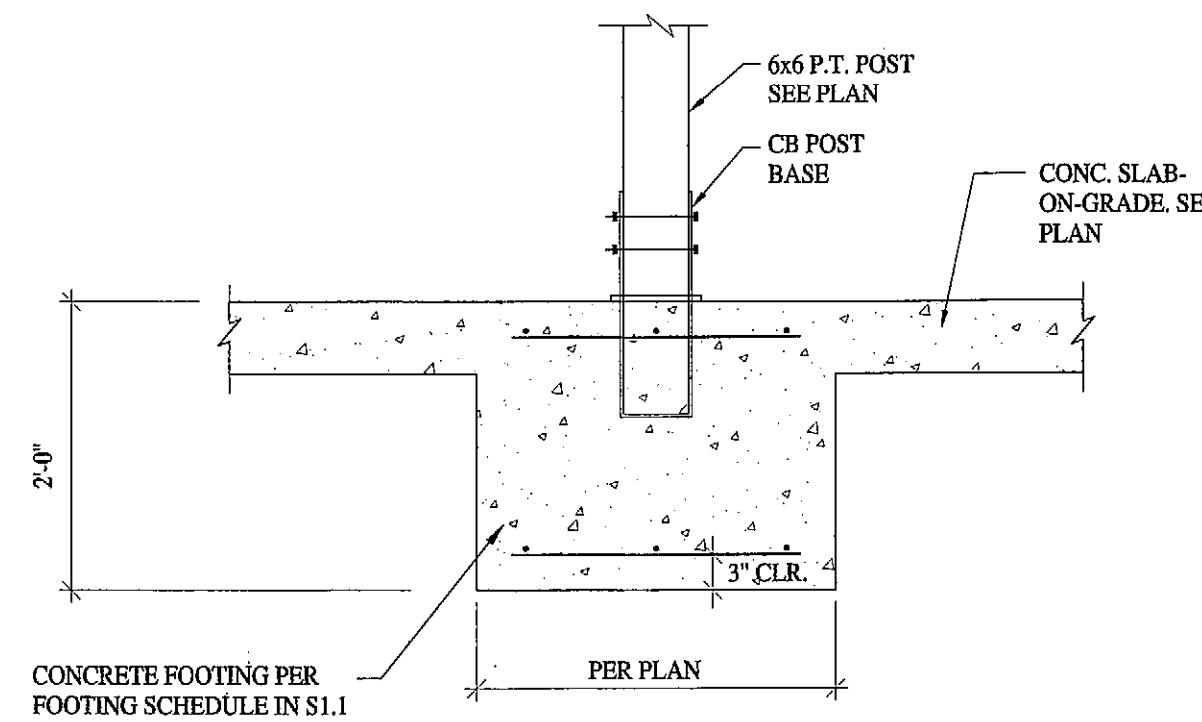
HD TYPE	ANCHOR BOLT	POST SIZE	MIN EMBED (in)	ALLOW (in) UPLIFT
HDU2	5/8" Ø	2-2x	12"	3075#
HDU4	5/8" Ø	2-2x	12"	4565#
HDU5	5/8" Ø	2-2x	12"	5645#
HDU8	7/8" Ø	3-2x	12"	7870#



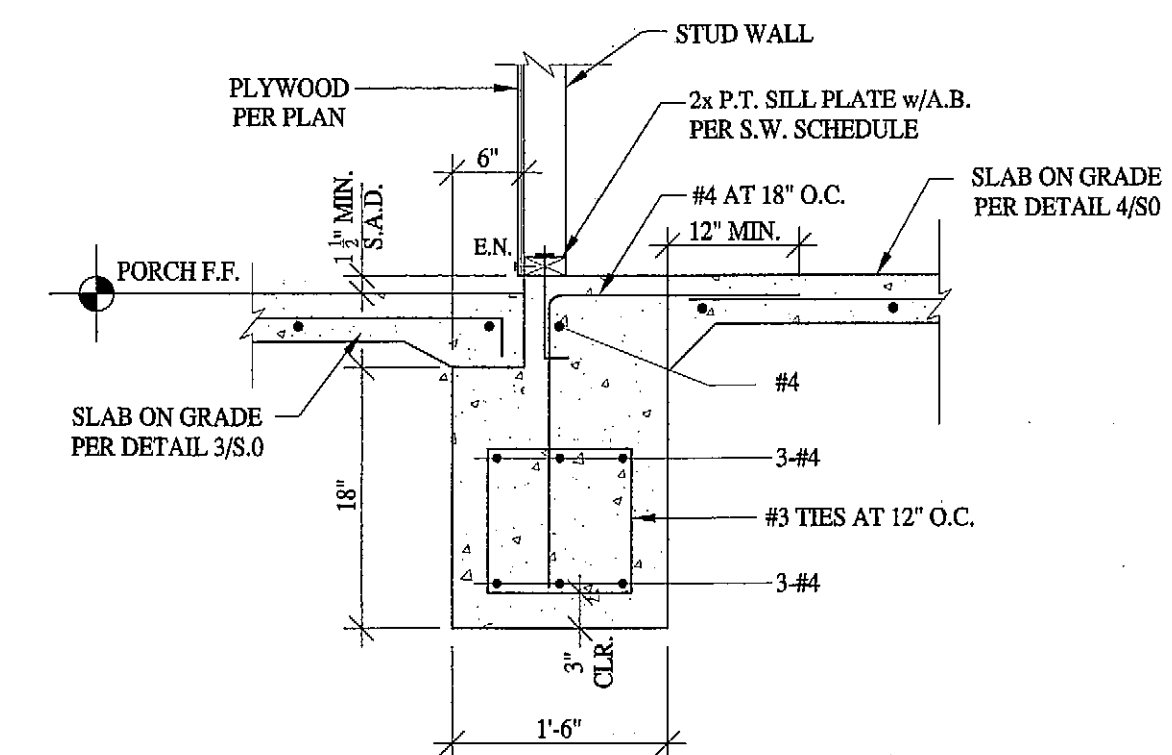
HOLDOWN DETAIL 12



STRONG WALL AT FOOTING 9



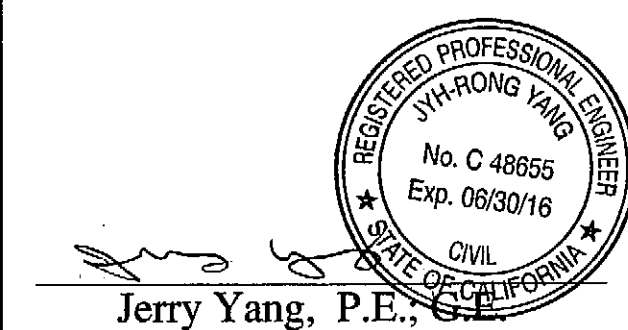
POST FOOTING 6



EXTERIOR WALL FOOTING AT PORCH 3

**GTC** GeoTrinity  
Consultants, Inc.

GeoTrinity Consultants, Inc.  
7770 Pardee Lane, Suite 101  
Oakland, CA 94621  
www.geotrinity.com  
Email: info@geotrinity.com  
Tel : 510-383-9950  
Fax: 510-383-9957



OWNER:  
Ms. Mona Hsieh  
Green Oak Builders Inc.  
888 Brannan St. #101  
San Francisco, CA 94103  
Tel : 510-928-7888

APPLICANT  
COPY

No. \_\_\_\_\_ Date \_\_\_\_\_

Project Name and Address

**NEW MIXED-USE BUILDING**  
35th St. & School St.  
Oakland, CA

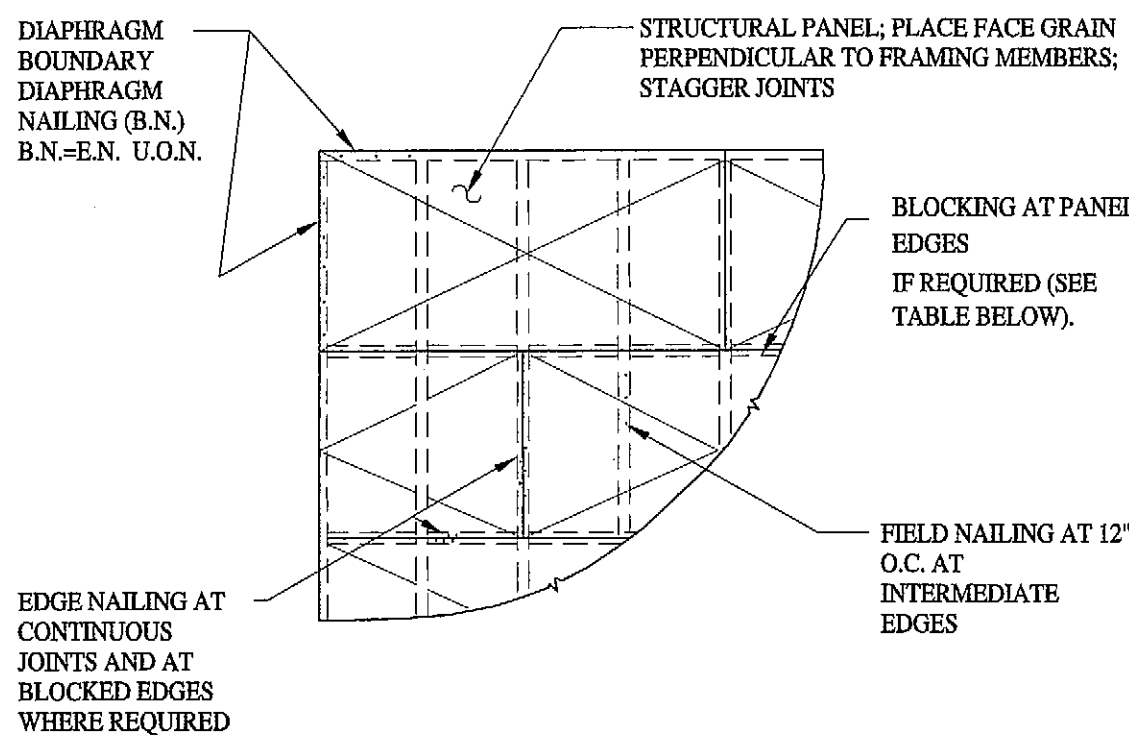
Sheet Title

**CONCRETE DETAILS**

Project **GE2382** Sheet

Date **3/28/2014** **S2.1**

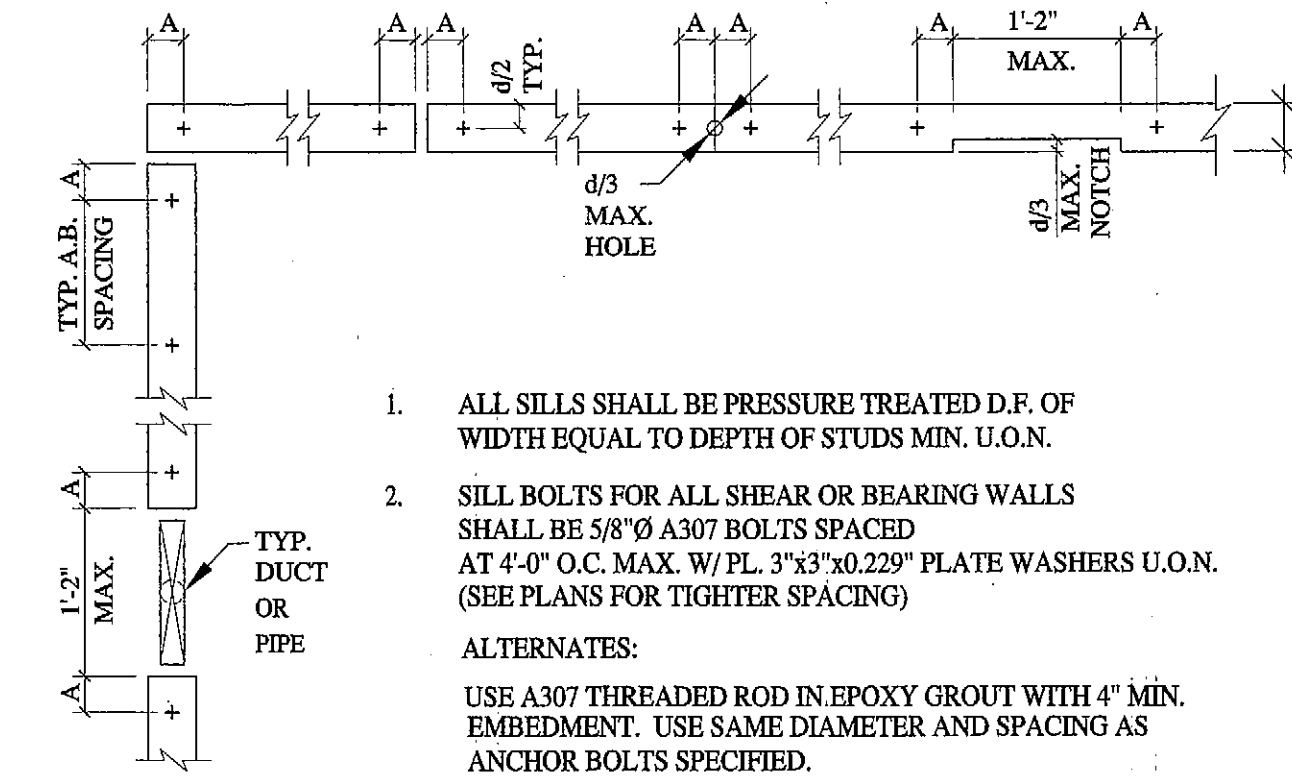
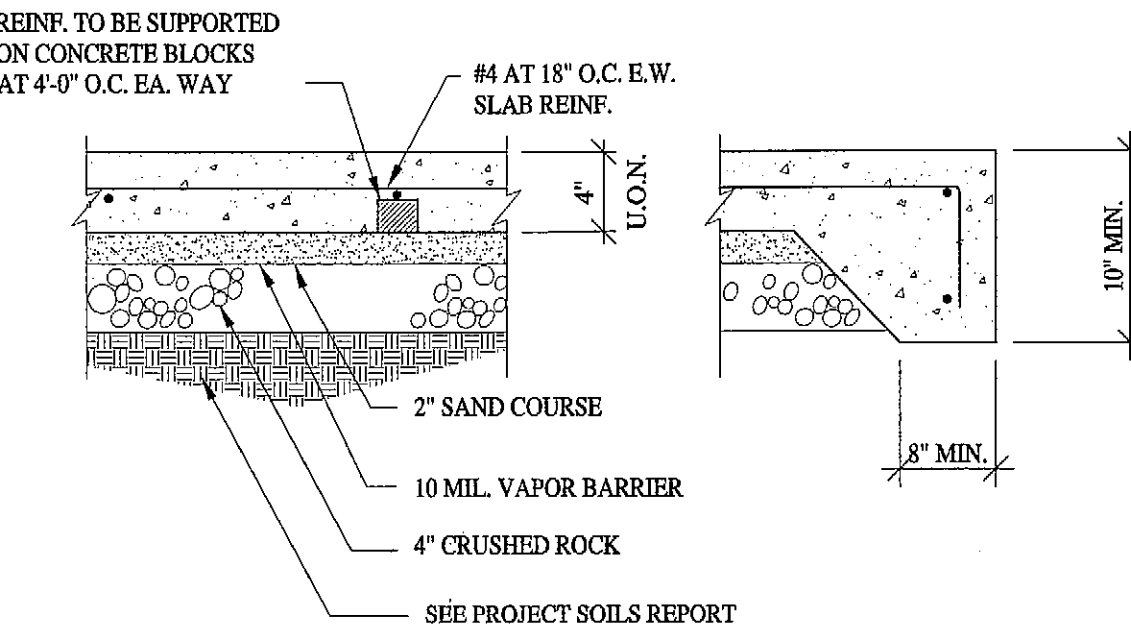
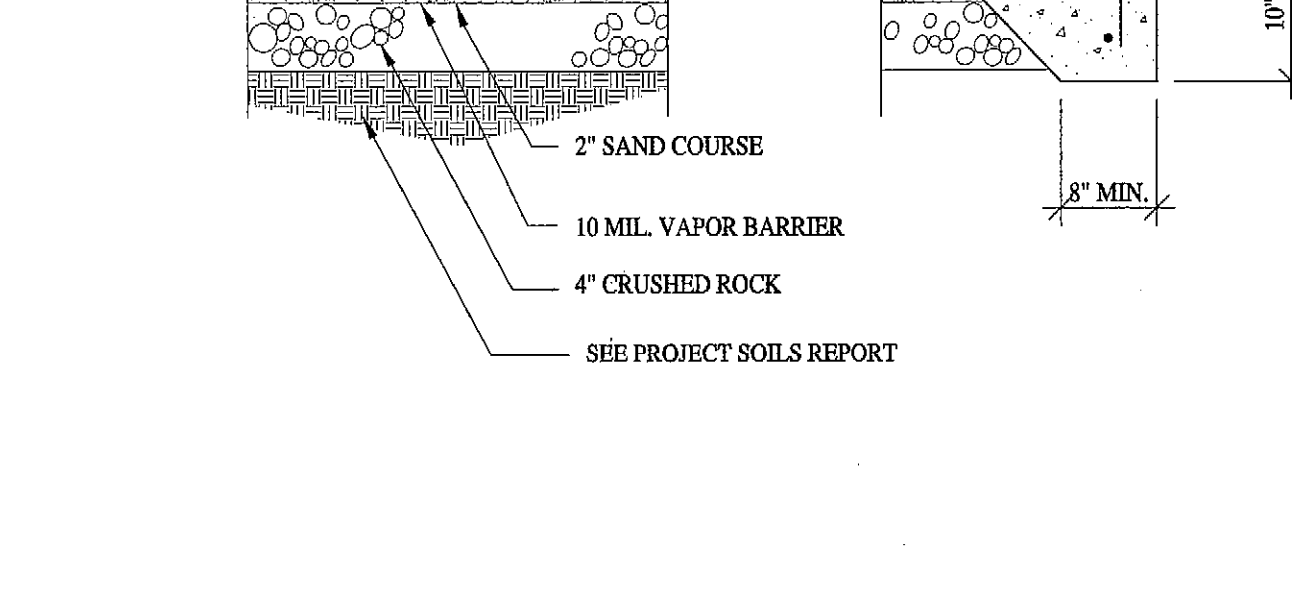
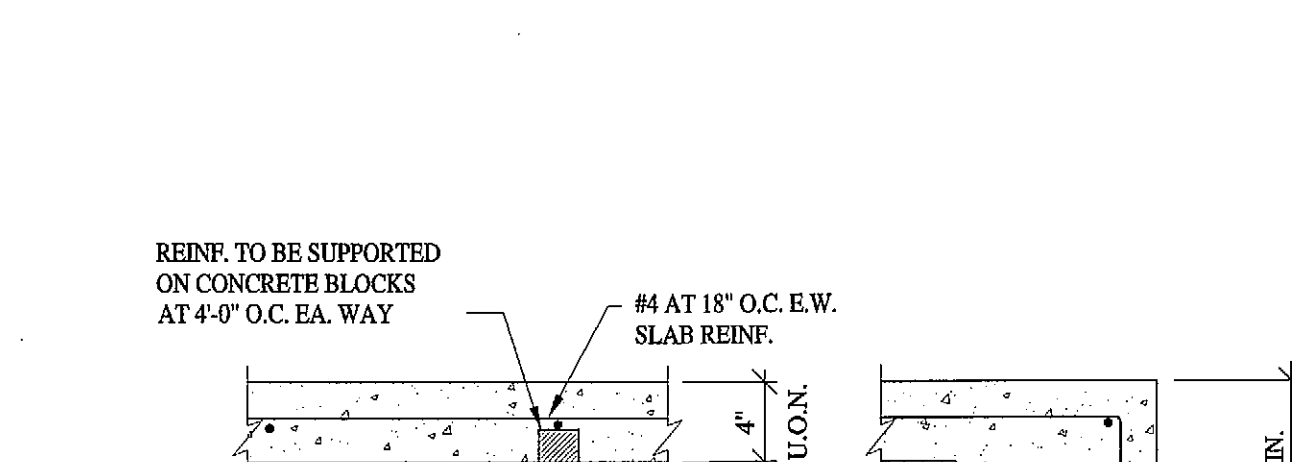
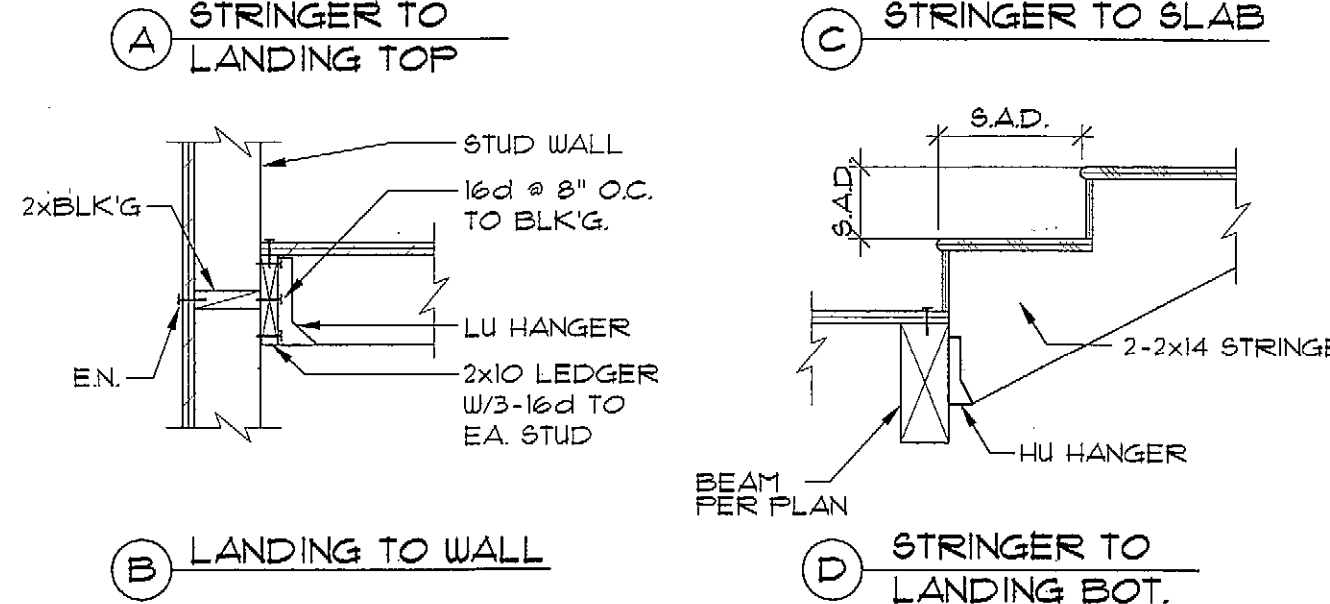
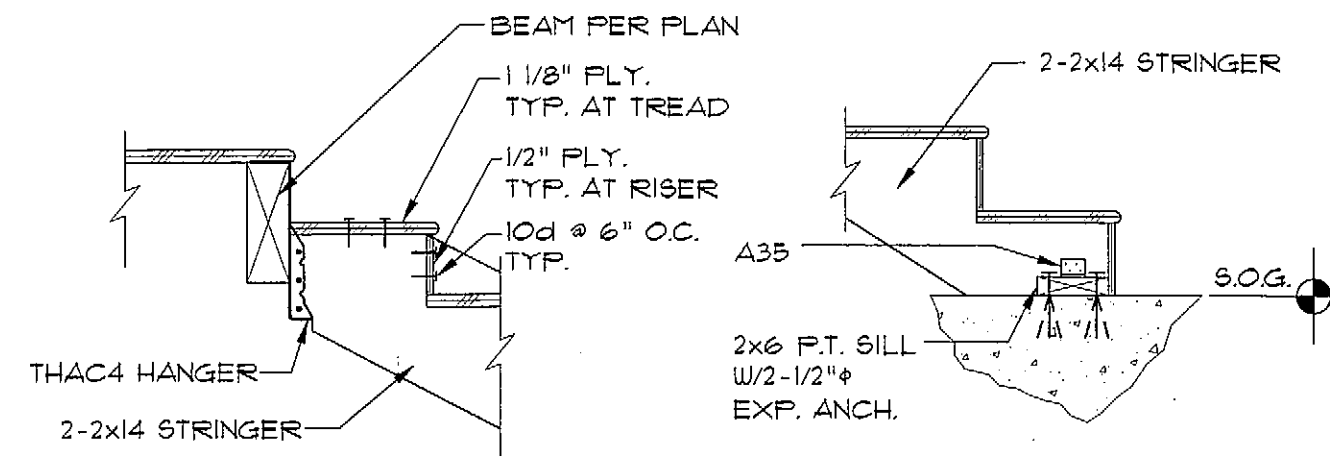
Scale



NOTES

- SEE GENERAL NOTES, SHEET S.O FOR PANEL THICKNESS AND GRADE.
- UNLESS OTHERWISE NOTED, NAILING SHALL BE:

	NAIL SIZE	E.N.	B.N.	BLOCKING REQUIRED
FLOOR	10g	6\"/>		



- ALL SILLS SHALL BE PRESSURE TREATED D.F. OF WIDTH EQUAL TO DEPTH OF STUDS MIN. U.O.N.
  - SILL BOLTS FOR ALL SHEAR OR BEARING WALLS SHALL BE 5/8\"/>
- ALTERNATES:
- USE A307 THREADED ROD IN EPOXY GROUT WITH 4\"/>

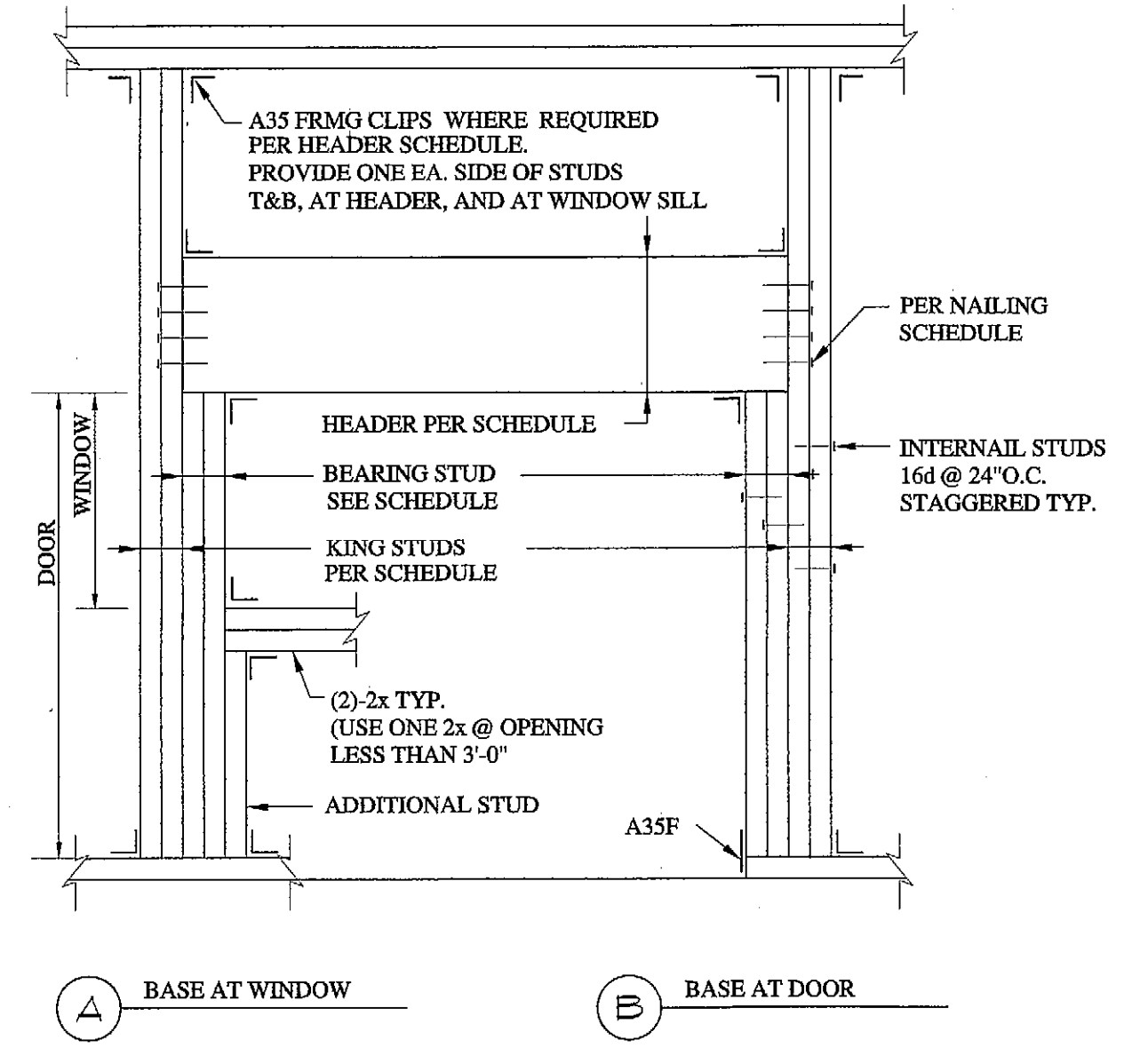
**GTC** GeoTrinity Consultants, Inc.

GeoTrinity Consultants, Inc.  
7770 Pardee Lane, Suite 101  
Oakland, CA 94621  
www.geotrinity.com  
Email: info@geotrinity.com  
Tel : 510-383-9950  
Fax: 510-383-9957



Jerry Yang, P.E.; G.E.

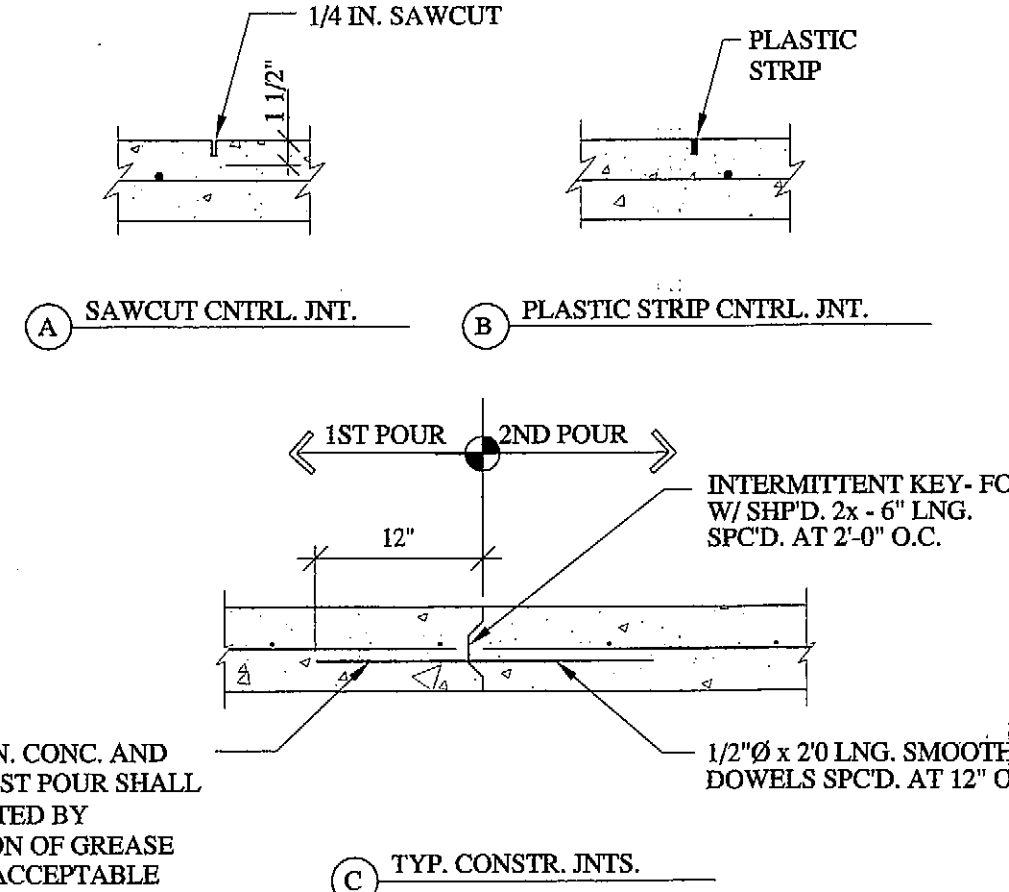
FLOOR/ROOF SHEATHING ATTACHMENT 10



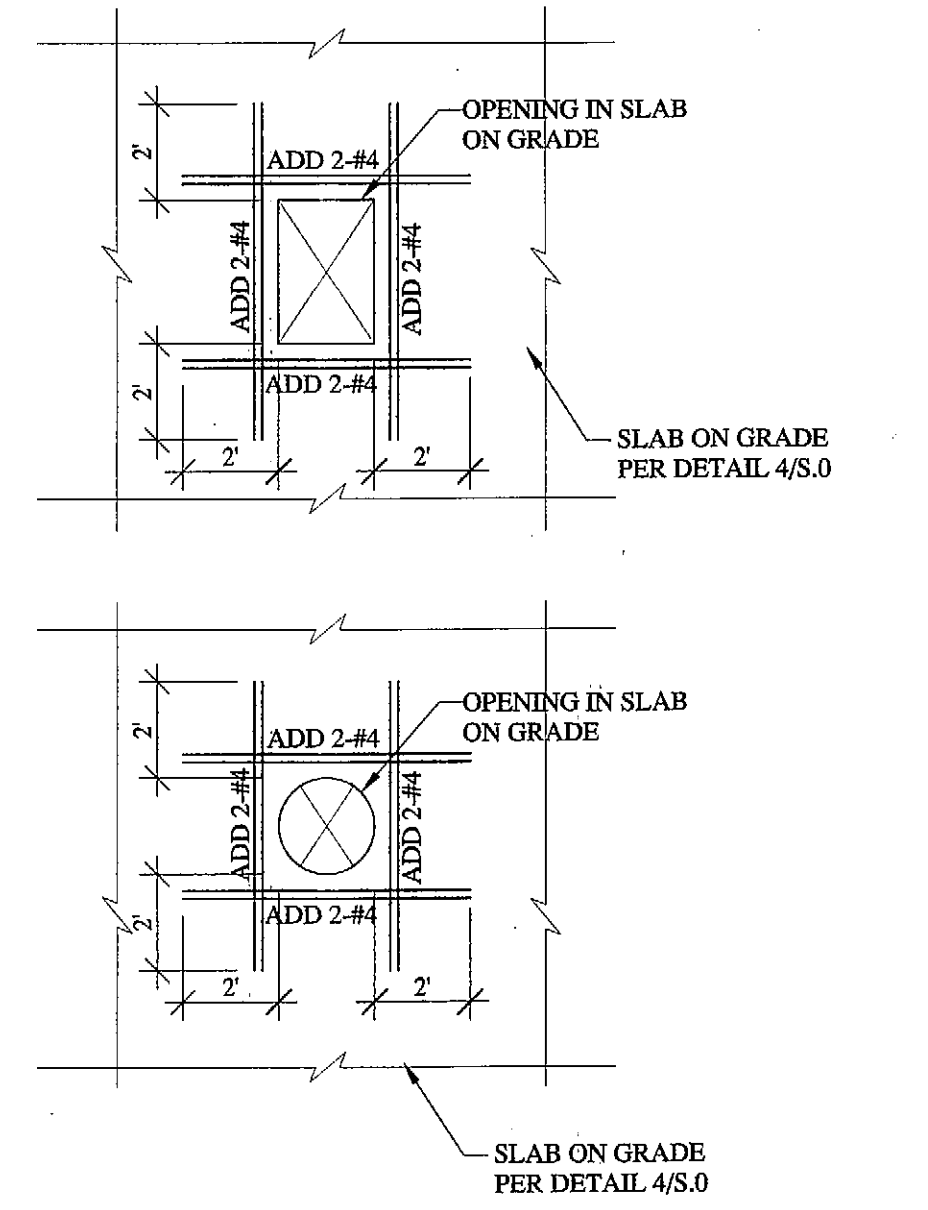
TYPICAL FRAMING OPENINGS IN BEARING WALLS 11

WOOD STAIR FRAMING 7

- NOTES:
- AT CONTRACTOR'S OPTION USE EITHER SAWCUT OR PLASTIC STRIP CNTRL. INTS.
  - LOCATE CNTRL. AND CONSTR. INTS. TO ENCLOSE APPROXIMATELY SQUARE AREAS (WIDTH TO LENGTH RATIOS OF ENCLOSED AREAS SHALL NOT EXCEED 1.33) NO GREATER THAN 400 SQUARE FEET.

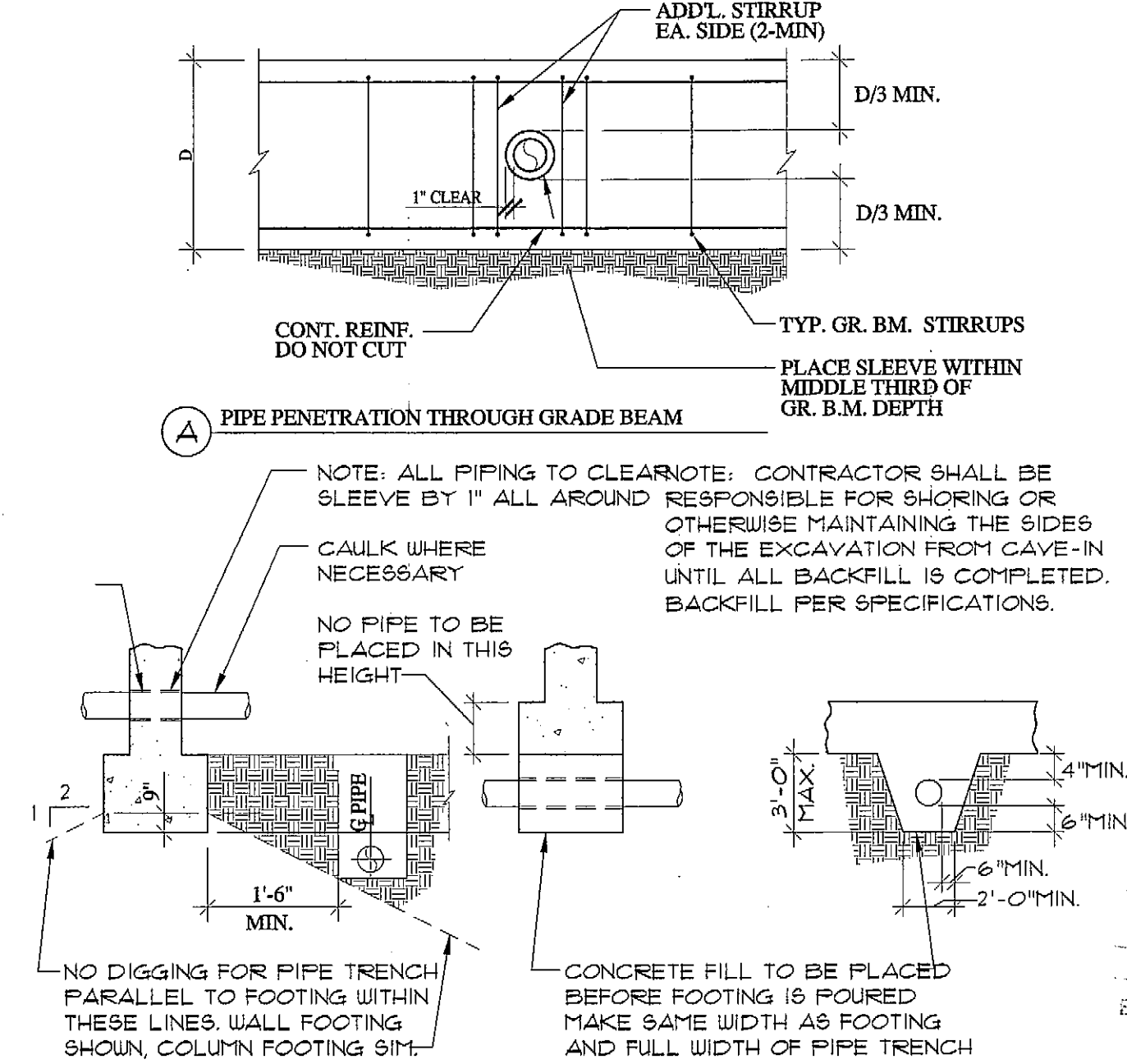


TYP. SLAB ON GRADE CNTRL. /CONSTR. INTS. 5



TYPICAL OPENING IN SLAB ON GRADE 6

TYPICAL ANCHOR BOLT REQUIREMENTS 1



TYPICAL PIPE CLEARANCES AT FOOTING 2

OWNER:  
Ms. Mona Hsieh  
Green Oak Builders Inc.  
888 Brannan St. #101  
San Francisco, CA 94103  
Tel : 510-928-7888

APPROVED  
CITY OF OAKLAND  
BUILDING SERVICES  
PLUMBING SECTION  
1500 Franklin Street, 15th Floor  
Oakland, CA 94612  
Tel: (510) 231-3300  
Fax: (510) 231-3301  
www.oakland.gov/building  
PLUMBING REVIEWER: [Signature]  
DATE: 3/28/2014  
ELECT. MECH. PLUMBS NOT CHECKED

No.	Date
-----	------

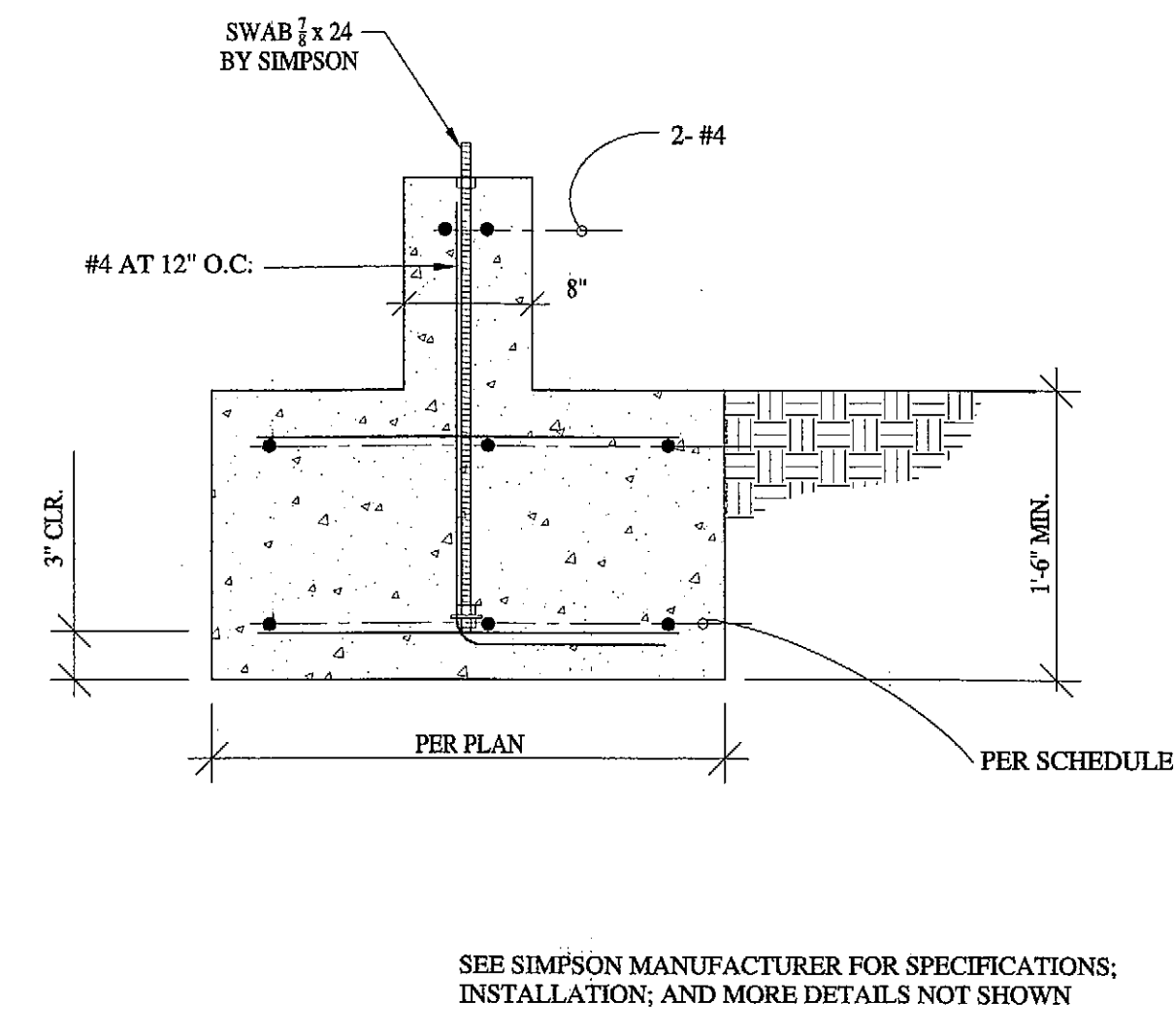
Project Name and Address  
**NEW MIXED-USE BUILDING**  
35th St. & School St.  
Oakland, CA

Sheet Title  
**CONCRETE DETAILS**

Project: **GE2382** Sheet  
Date: **3/28/2014** **S2.2**  
Scale

APPLICANT COPY

STRONG WALL FOOTING 9

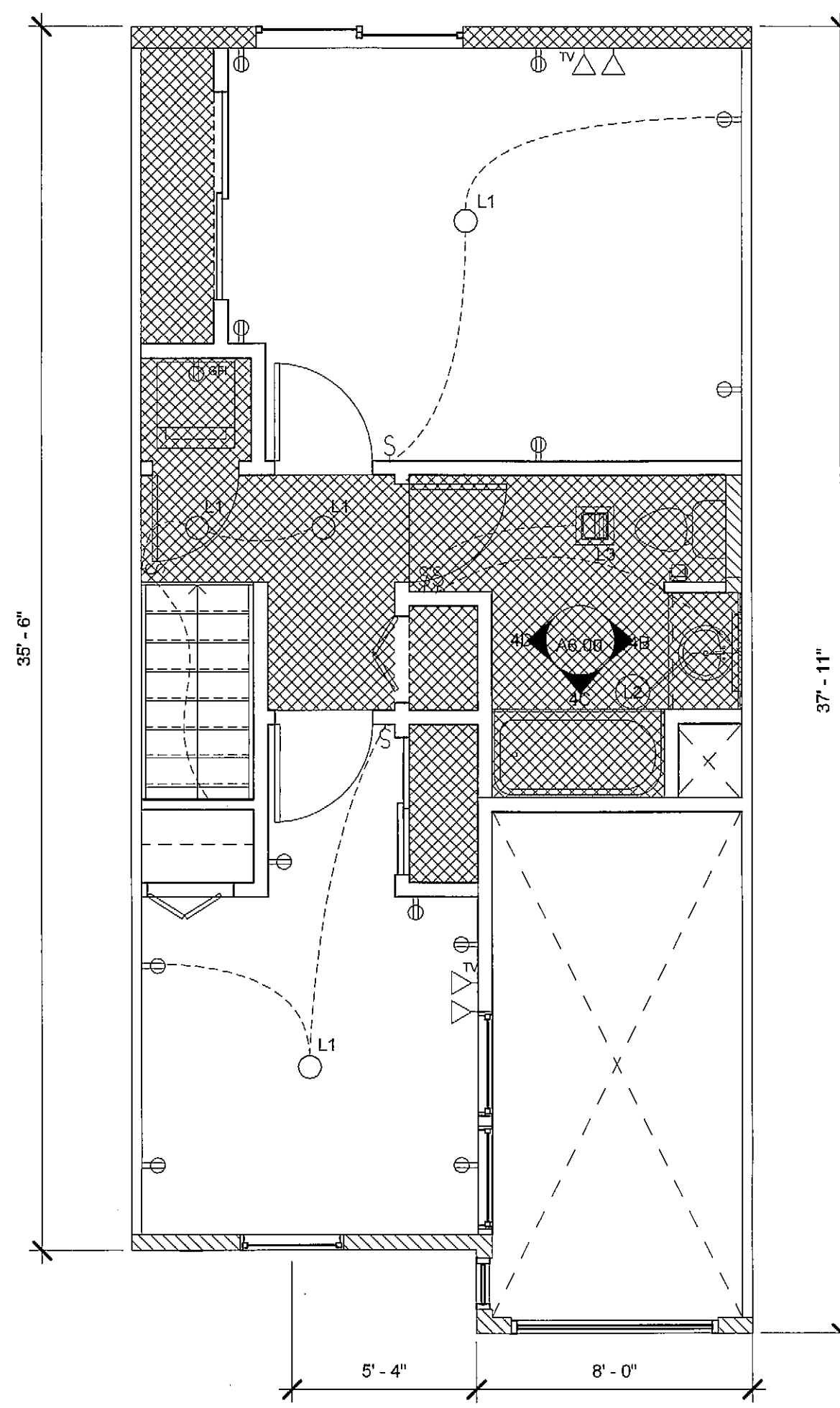


STRONG WALL FOOTING 9

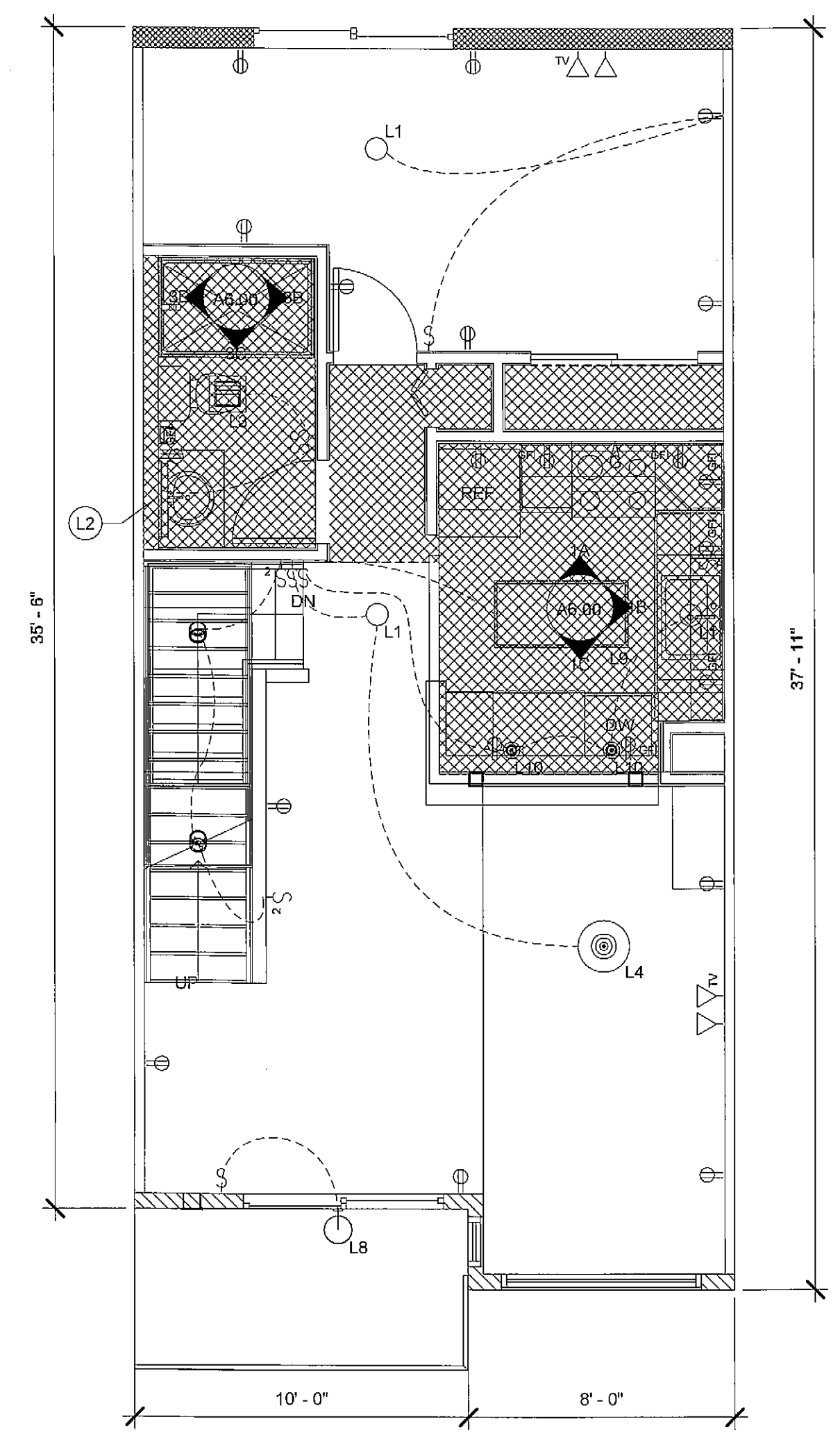
TYPICAL OPENING IN SLAB ON GRADE 6

TYPICAL ANCHOR BOLT REQUIREMENTS 1

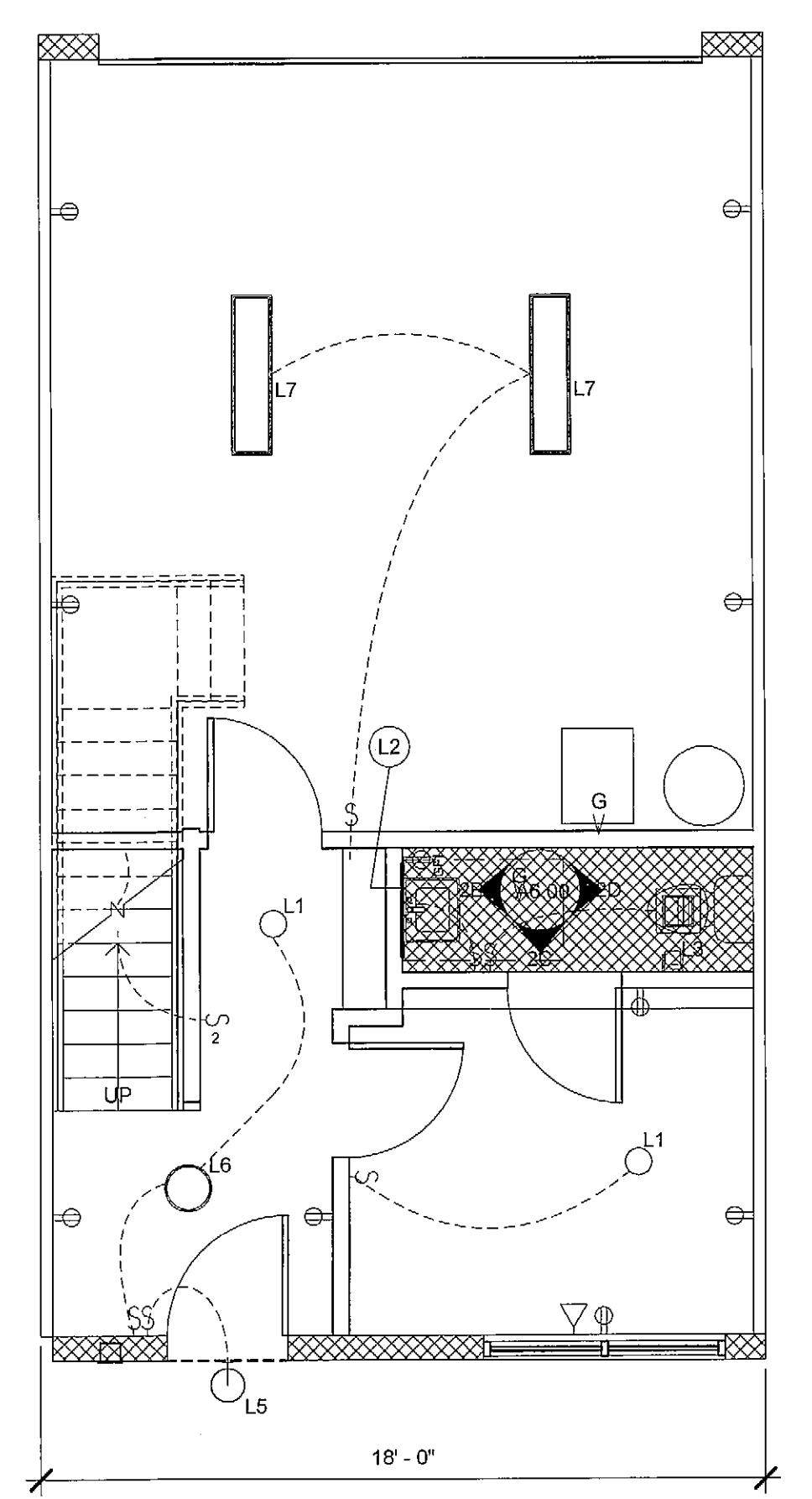




③ ElecPlan UNIT A 3RD FLOOR  
1/4" = 1'-0"



② ElecPlan UNIT A 2ND FLOOR  
1/4" = 1'-0"



① ElecPlan UNIT A 1ST FLOOR  
1/4" = 1'-0"

- L1 - RECESSED
- L1A - EXTERIOR RECESSED
- L2 - VANITY WALL FIXTURE
- ☐ L3 - CEILING FAN W/ LIGHT
- ⊙ L4 - DINING ROOM PENDANT
- L5 - EXTERIOR LIGHTING - ENTRY
- L6 - FLUSH MOUNTED LIGHT
- L7 - STRIP FLUORESCENT
- L8 - EXTERIOR LIGHTING - DECK
- ⊙ L9 - FLOURESCENT CEILING LIGHT - MINKA ENERGY STAR (17 1/4" x 4 1/2" x 5 1/2")
- ⊙ L10 - KITCHEN ISLAND PENDANT
- L11 - CEILING MOUNT
- ☒ DROPPED CEILING, 8'-0" TYP., U.N.O.
- ⊕ GAS
- ⊕ TV OUTLET
- ⊕ TELEPHONE
- ⊕ DUPLEX OUTLET
- ⊕ GFI DUPLEX OUTLET
- ⊕ LIGHT SWITCH DOUBLE
- ⊕ LIGHT SWITCH SINGLE

**ELECTRICAL NOTES:**

(A)- WALLS 2 FEET WIDE AND GREATER SHALL HAVE AN ELECTRICAL OUTLET. OUTLETS SHALL BE LOCATED WITH A MAXIMUM SPACING OF 12 FEET AND WITHIN 8 FEET OR ENDS OF WALLS AND OPENINGS.

(B)- LOCATE RECEPTACLE OUTLETS IN KITCHEN AT EVERY COUNTER SPACE WIDER THAN 12 INCHES SO THAT NO POINT IS MORE THAN 24 INCHES FROM AN OUTLET.

(C)- ALL EXTERIOR LIGHTING MUST BE HIGH EFFICACY PER CEC SECTION 150. AS AN EXCEPTION THE EXTERIOR LIGHTS MAY BE INCANDESCENT LIGHTING CONTROLLED BY A MOTION SENSOR, EXCEPTION 1, SECTION 150(K) 8.

(D)- ROOMS WITH PERMANENT LIGHTING MUST HAVE HIGH EFFICACY OR NON-HIGH EFFICACY LIGHTING SHALL BE CONTROLLED BY A MANUAL ON MOTION SENSOR OR DIMMER SWITCH CONTROL PER CEC SECTION 150(K)4. EXCEPTIONS (1), (2) & (3).

(E)- ALL OTHER INTERIOR ROOMS: ALTERNATE OPTION: MANUAL-ON OCCUPANT SENSOR, OR DIMMER.

(F)- BATHROOM, LAUNDRY/UTILITY- ALTERNATE OPTION: MANUAL-ON OCCUPANT SENSOR, AT LEAST ONE RECEPTACLE OUTLET, IN ADDITION TO ANY PROVIDED FOR LAUNDRY EQUIPMENT, SHALL BE INSTALLED PER 2004 C.E.C. ARTICLE 210-52.1.

(G)- KITCHEN-ALTERNATE OPTION: UP TO 50% OF RELAMPING RATED WATTAGE CAN BE OTHER THAN HIGH EFFICACY.

(H)- ALL CLOSETS EXCEEDING 70 SQUARE FEET, MUST HAVE HIGH EFFICACY LIGHTING.

(I)- ALL LUMINARIES INSTALLED IN WET OR DAMP LOCATIONS MUST BE SUITABLE FOR WET LOCATIONS.

(J)- SWITCH ALL HIGH EFFICACY LIGHTING SEPARATE FROM LOW EFFICACY LIGHTING.

(K)- ELECTRONIC BALLASTS FOR ALL FLUORESCENT LAMPS RATED 13 WATTS OR GREATER.

(L)- PROVIDE DEDICATED CIRCUITS AT ALL REED LPG SENSORS.

(M)- RECESSED LUMINARIES IN ALL INSULATED CEILINGS APPROVED FOR ZERO-CLEARANCE INSULATION COVER (IC) AND CERTIFIED AIRTIGHT.

(N)- ALL BRANCH CIRCUITS THAT SUPPLY RECEPTACLE OUTLETS IN BEDROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER(S) LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT, INCLUDING LIGHTING OUTLETS AND SMOKE DETECTORS.

(O)- USE 110V SMOKE DETECTORS W/ BATTERY BACKUP WHICH ARE AUDIBLE IN ALL SLEEPING AREAS) AT ALL BEDROOMS, CENTRALLY LOCATED IN CORRIDOR AND HALLWAYS LEADING TO BEDROOMS, ABOVE TOPS OF STAIRS, AND AT LEAST ONE AT EVERY LEVEL, INCLUDING BASEMENTS.

(P)- PROVIDE TWO OR MORE 20-AMPERE SMALL APPLIANCE BRANCH CIRCUITS EVENLY PROPORTIONED IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREAS, SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.

(Q)- RECEPTACLE OUTLETS IN BATHROOMS, GARAGES, OUTDOORS AND CRAWL SPACES SHALL HAVE GFCI PROTECTION FOR PERSONNEL, IN ACCORDANCE WITH CEC 210.8 A.

**ARCHITECTURE**

**PHILIP BANTA & ASSOCIATES**

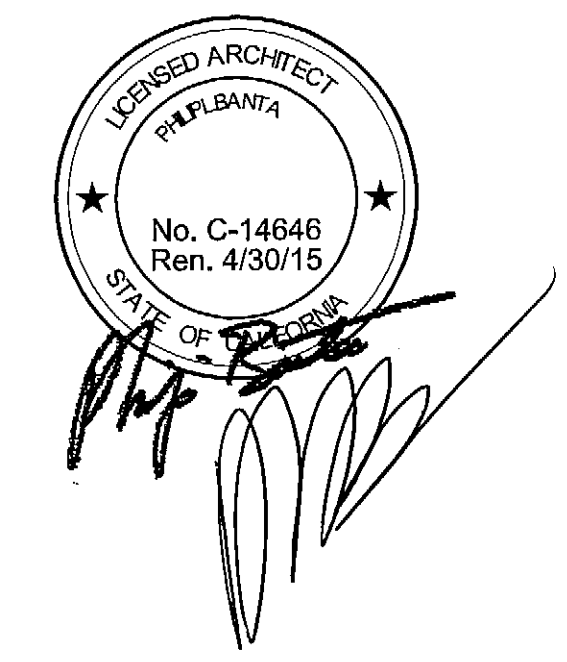
6650 HOLLIS STREET  
EMERYVILLE, CALIFORNIA 94608

TEL: 925.406.654 3255  
FAX: 925.406.654 3259  
www.philipbanta.com

REVISIONS: △ ISSUES: ○

No.	Description	Date
1/1	1ST PLAN CHECK REVIEW	01/14/14
1/1	BUILDING PERMIT	12/12/13

**35th @ School**  
Oakland, CA 94619



SHEET DESCRIPTION:  
**UNIT A  
RCP/ELECTRICAL  
PLANS**

PROJECT NUMBER: 0714  
DATE: 01/14/14  
DRAWN BY: JH/JY  
CHECKED BY: PB  
SCALE: As indicated

**A3.00**

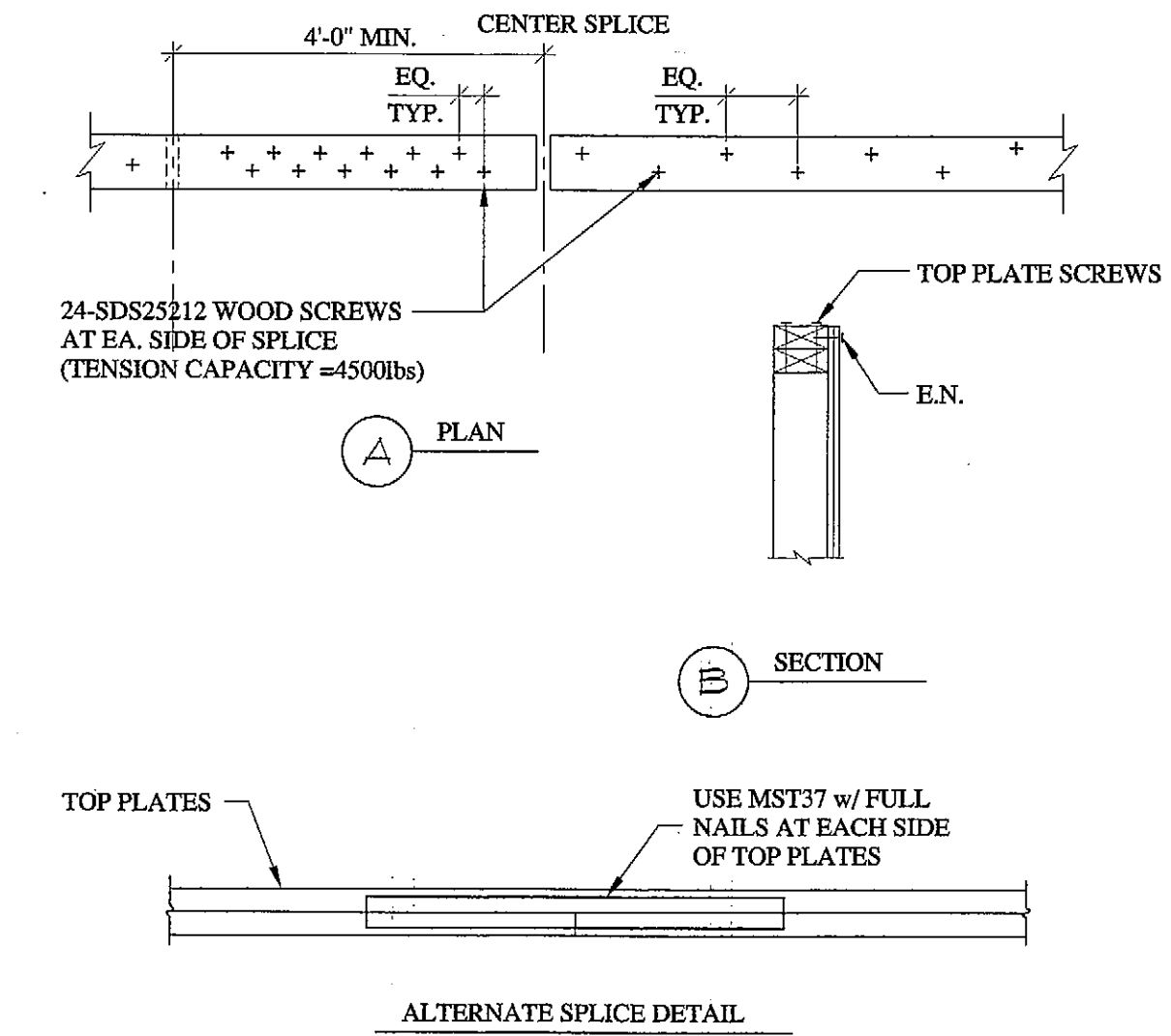
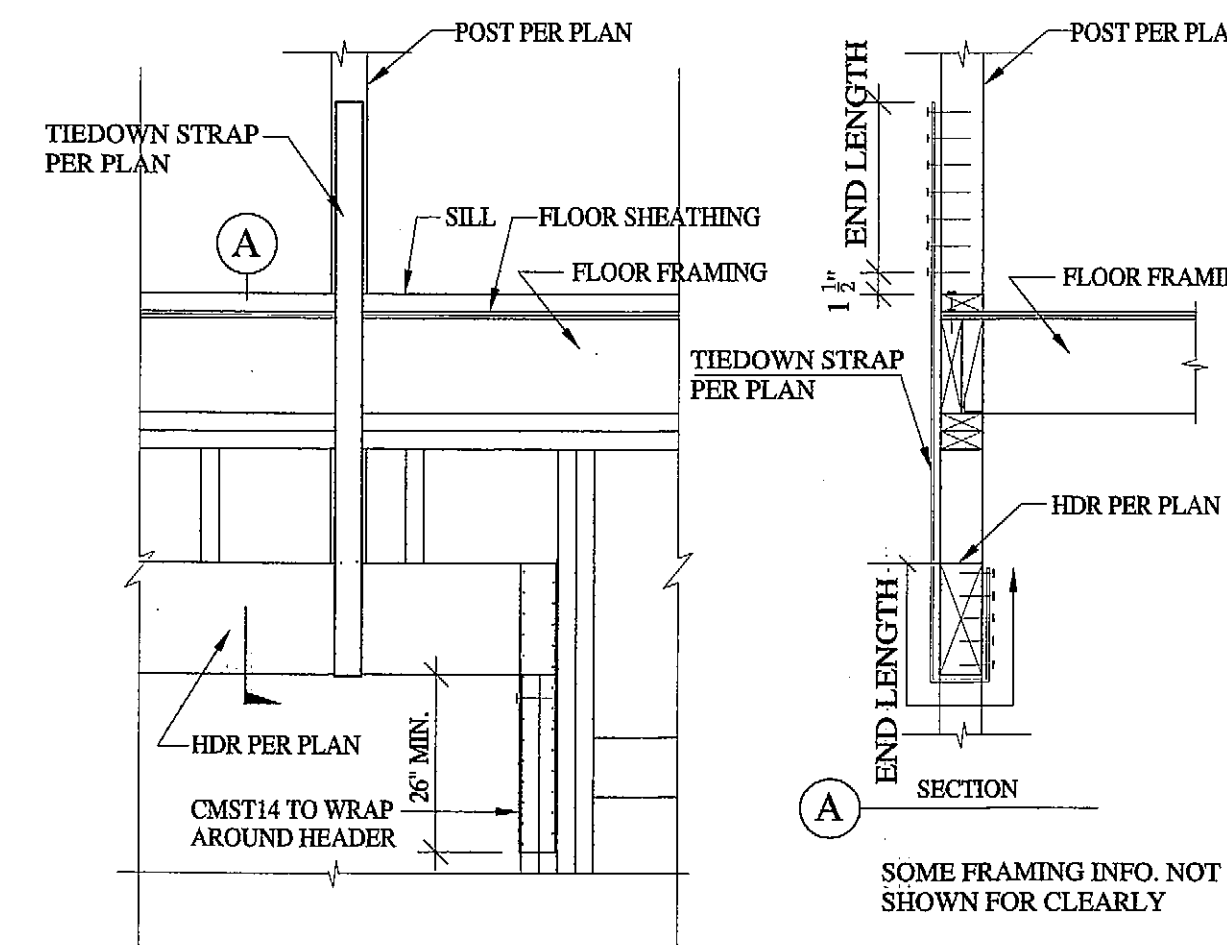
12/7/2013 4:01:05 PM

SHEAR WALL SCHEDULE							
SHEAR WALL SYMBOL	◇	◇	◇	◇	◇	◇	◇
PLYWOOD THICKNESS GRADE NO. OF SIDES	1" STRUCT 1	1" STRUCT 1	1/2" STRUCT 1	1/2" STRUCT 1	1/2" STRUCT 1 TWO SIDES	1/2" STRUCT 1 TWO SIDES	1" STRUCT 1 TWO SIDES
PANEL EDGE NAILING	104 @ 6"	104 @ 4"	104 @ 3"	104 @ 2"	104 @ 4"	104 @ 3"	104 @ 2"
FIELD NAILING	104 @ 12"	104 @ 12"	104 @ 12"	104 @ 12"	104 @ 12"	104 @ 12"	104 @ 12"
SILL SCREWS	SDS 1/4" @ 12"	SDS 1/4" @ 8"	SDS 1/4" @ 6"	SDS 1/4" @ 5"	SDS 1/4" @ 4"	SDS 1/4" @ 3"	SDS 1/4" @ 2"
FRAMING ANGLE	A35 @ 16"	A35 @ 8"	A35 @ 8"	A35 @ 4"	A35 @ 4"	LTP4 @ 4"	LTP4 @ 3"
ALTERNATE FRAMING ANGLE (PLAT)	LTP4 @ 16"	LTP4 @ 8"	LTP4 @ 8"	LTP4 @ 6"	LTP4 @ 4"	LTP4 @ 4"	LTP4 @ 3"
ANCHOR BOLTS	1" @ 32"	1" @ 24"	1" @ 16"	1" @ 12"	1" @ 12"	1" @ 8"	1" @ 8"
SHEAR CAPACITY	340 PLF	510 PLF	665 PLF	870 PLF	1020 PLF	1330 PLF	1740 PLF
	◇ SW SIMPSON STRONG-WALL SEE SIMPSON MANUFACTURER FOR SPECIFICATIONS						

ALL FRAMED EXTERIOR WALL AND ELEVATOR WALL SHALL BE SHEATHED WITH SHEAR WALL TYPE ◇ U.O.N.

FOOTNOTES:

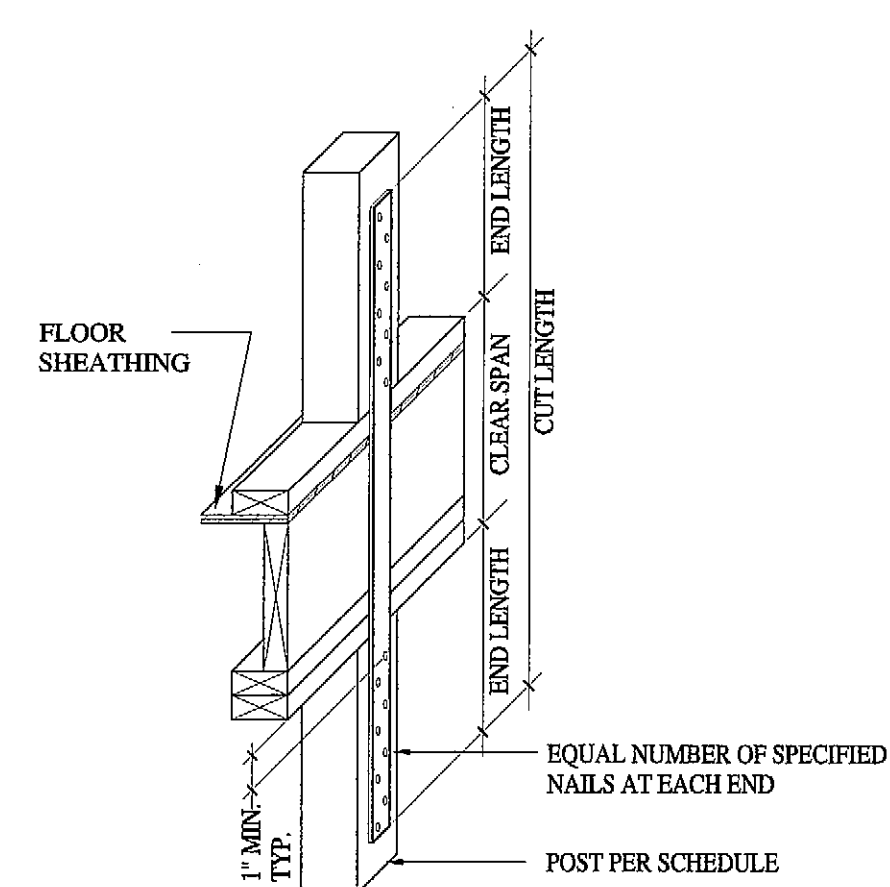
1. NAILS SHALL BE COMMON WIRE.
2. 3x FRAMING SHALL BE USED AT ALL ABUTTING PANEL EDGES.
3. ANCHORS BOLTS SHALL BE INSTALLED WITH 3"x3"x1/2" PLATE WASHERS.
4. SILLS w/ LAG SCREWS OR WITH NAILS SPACING LESS THAN OR EQUAL TO 3" SHALL BE NAILED TO 3x BLOCKING U.O.N.
5. WHERE 3x BOTTOM PLATES ARE REQUIRED IN NOTE 3, SILL SCREWS SHALL BE SDS 1/4".



SHEAR WALL SCHEDULE 7

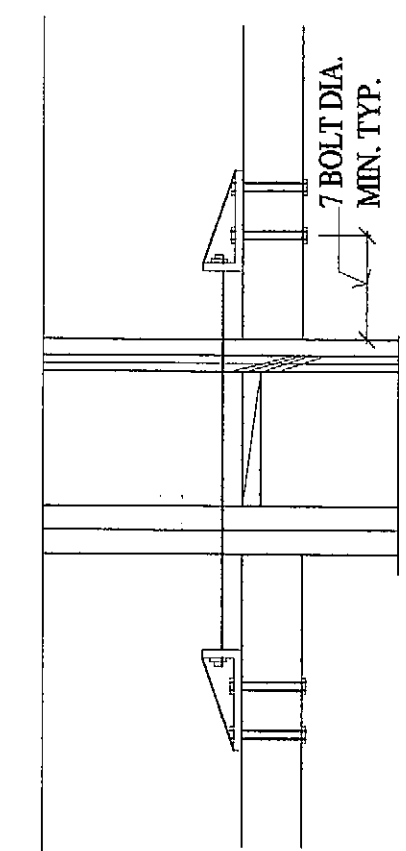
TYPICAL POSTS ON HEADER 4

TOP PLATE SPLICE AT SHEAR WALLS, TYP. 1

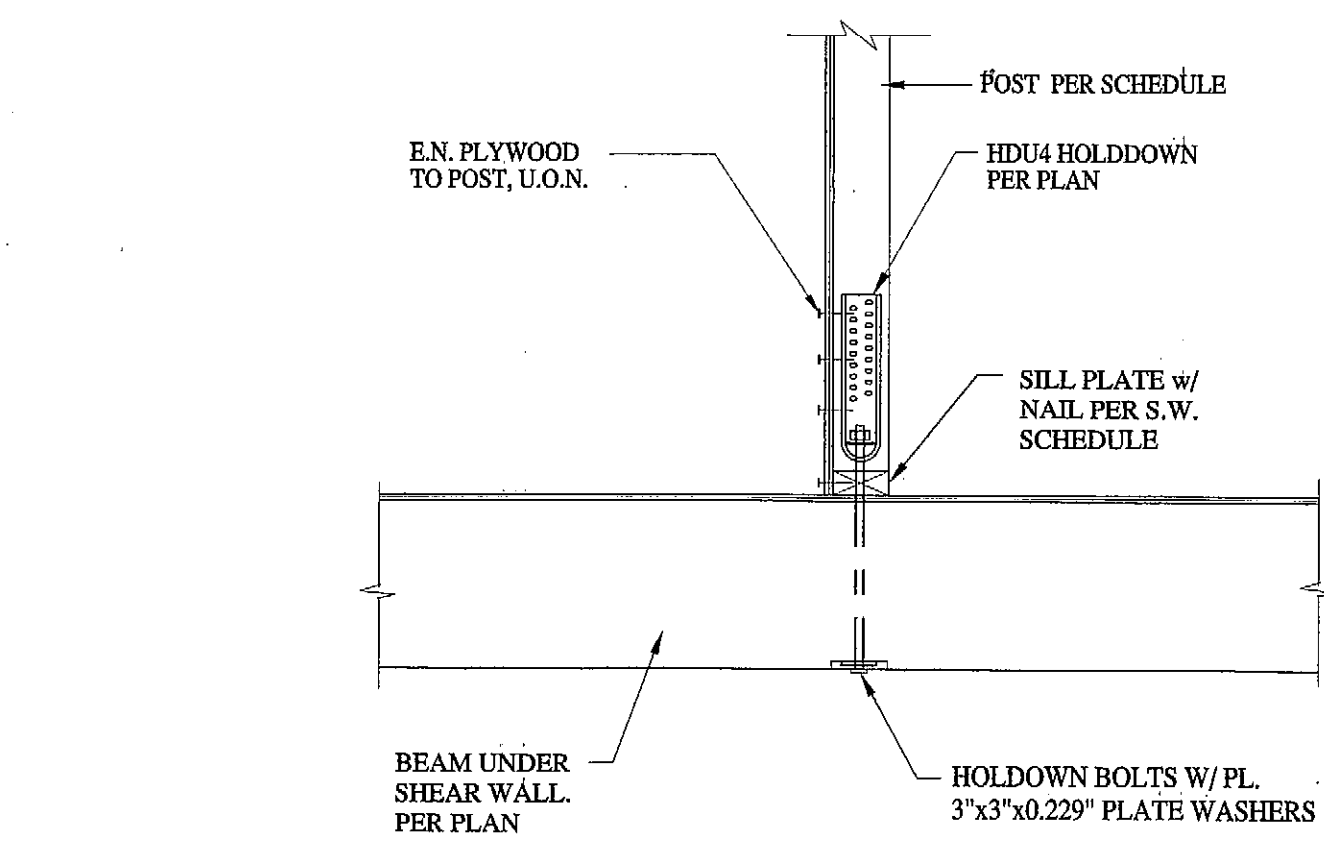
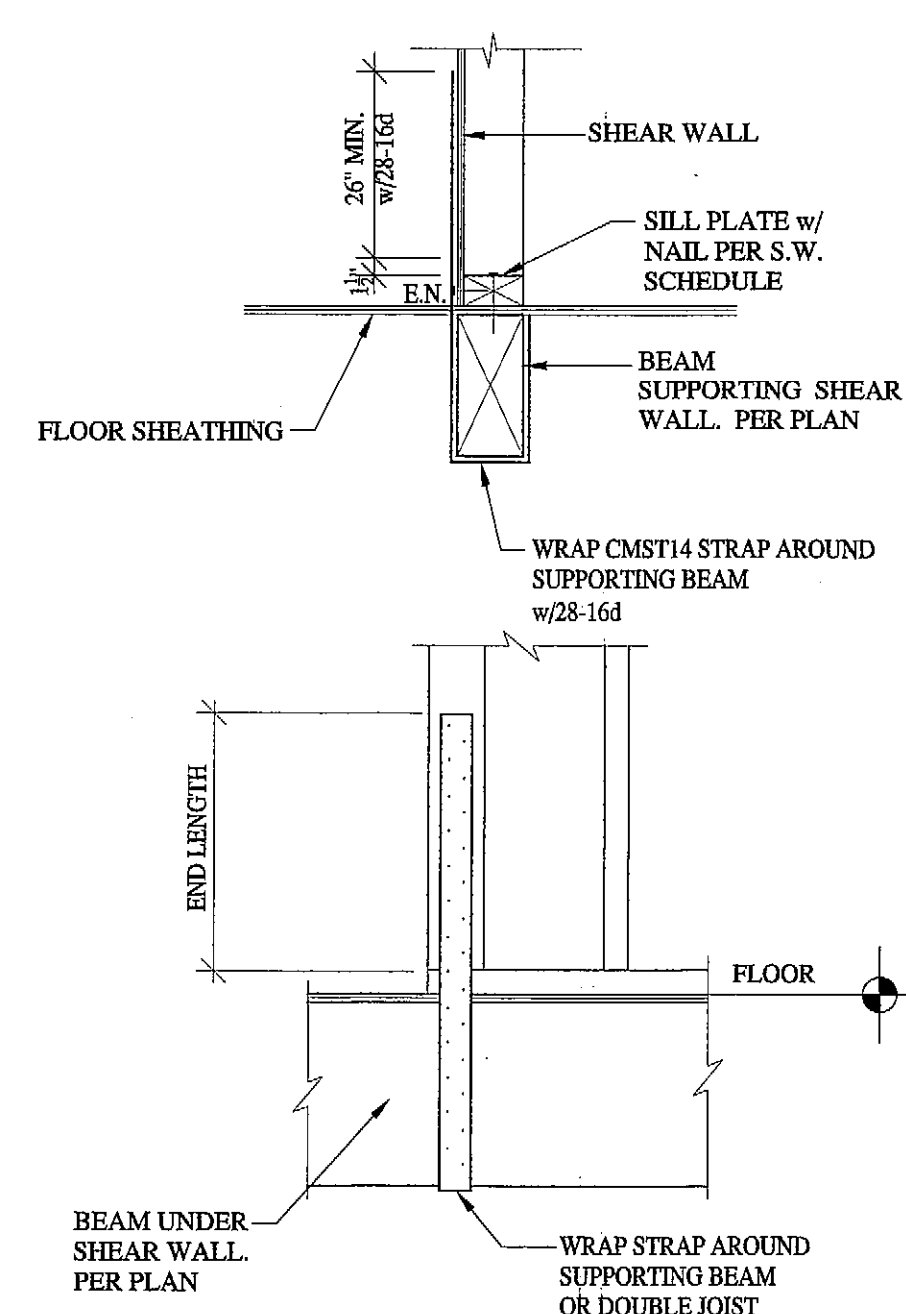


MATERIAL	STRAP TYPE	END LENGTH MINIMUM	NAILING REQ'D AT EACH END LENGTH		ALLOW UPLIFT	POST SIZE (MIN)	HOLDOWN OPTION
			MINIMUM	END LENGTH			
*	CMST14	26"	28-16d	6490#	2-2x	HDU8	
*	CMST12	33"	37-16d	9200#	3-2x	HDU11	

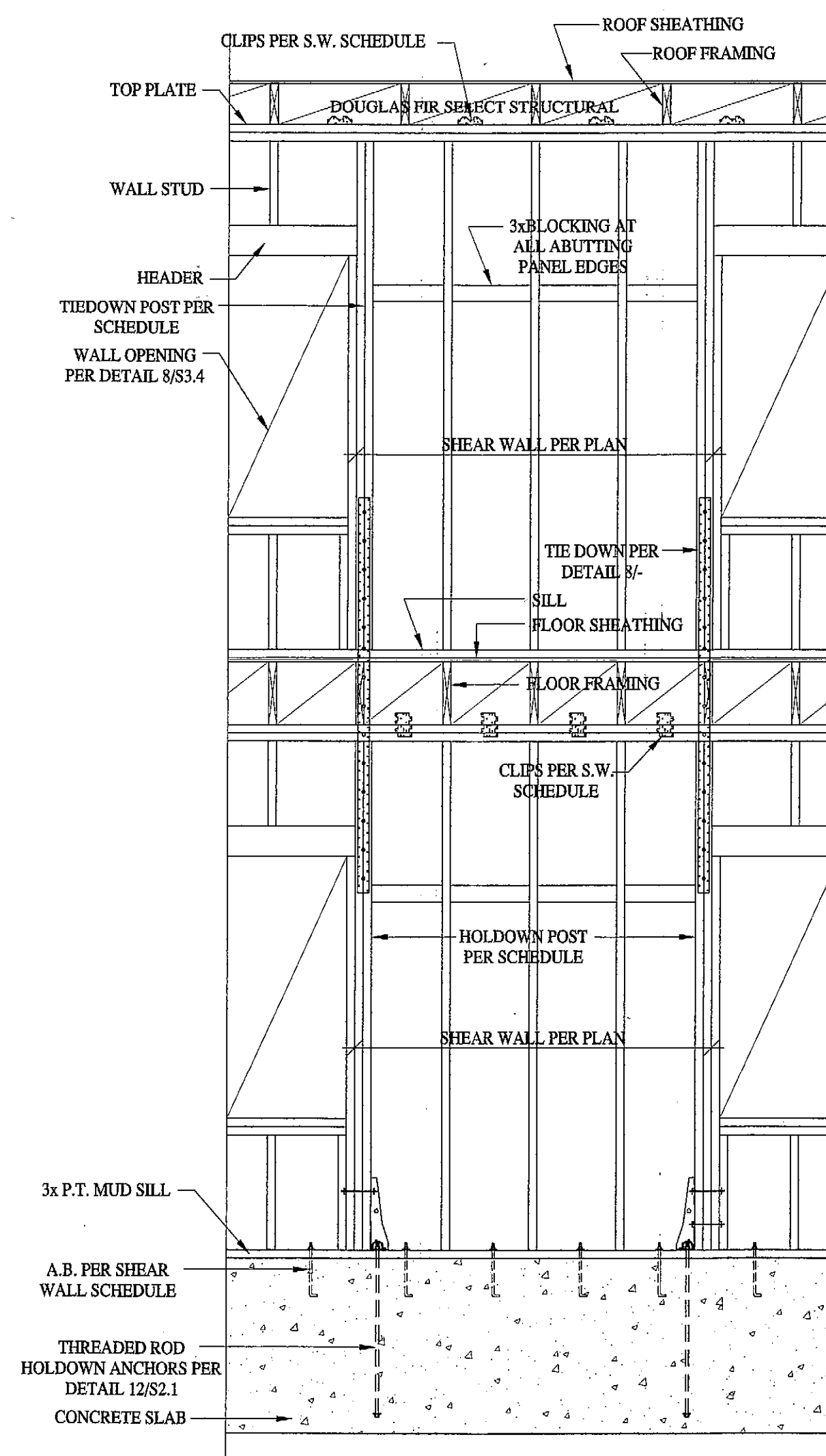
- NOTES:  
 1. STRAP MAY BE INSTALLED OVER PLYWOOD.  
 2. EDGE NAIL PLYWOOD TO STRAP POST.



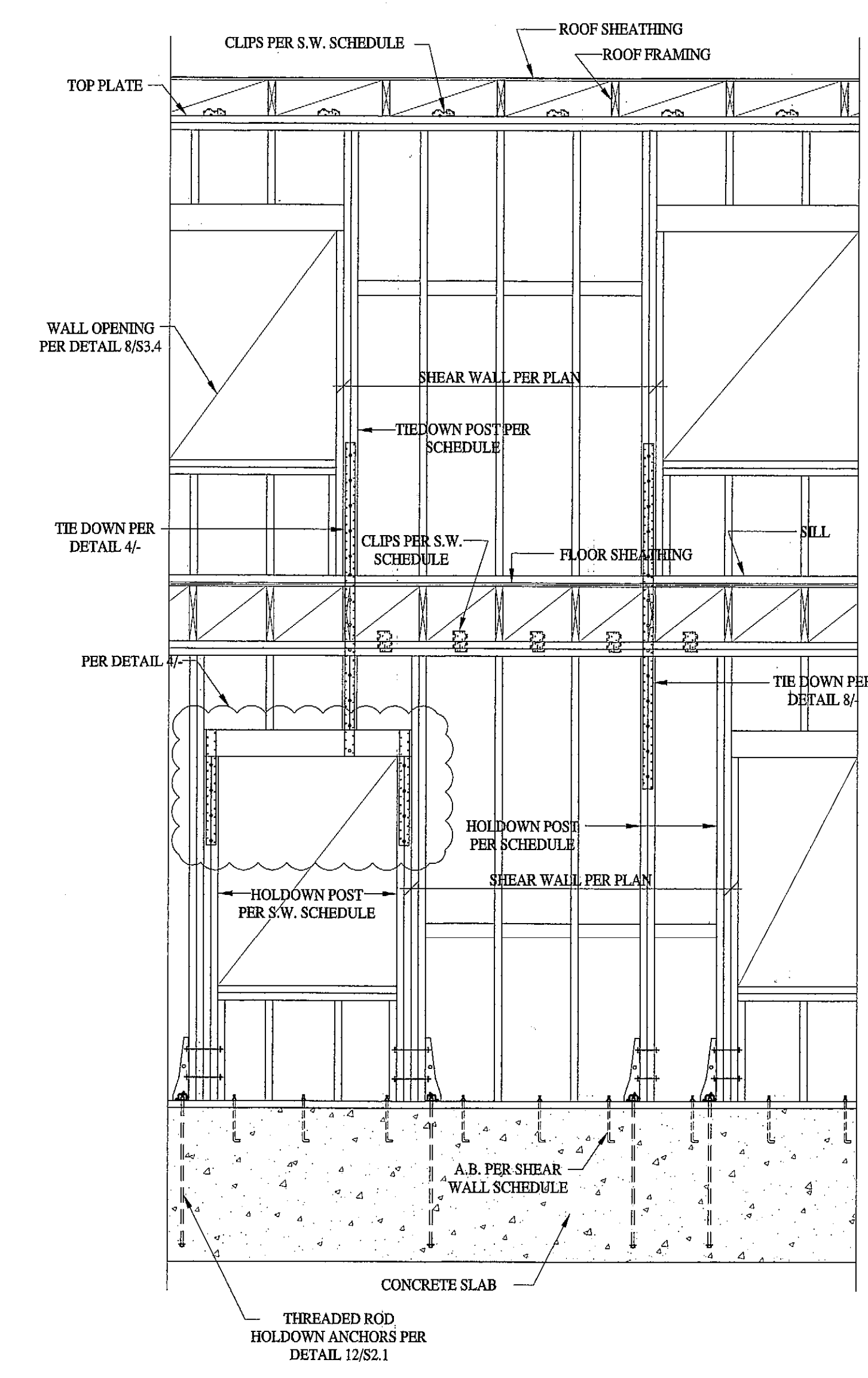
VERTICAL TIEDOWN AT FLOOR 8



STRAP TIEDOWN/HOLDOWN ON WOOD BEAM 9



STACKED SHEARWALL



OFFSET SHEARWALL

TYPICAL SHEARWALL SCHEMATIC 3

**GTC** GeoTrinity Consultants, Inc.

GeoTrinity Consultants, Inc.  
 7770 Pardee Lane, Suite 101  
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Jerry Yang, P.E., G.E.

OWNER:  
 Ms. Mona Hsieh  
 Green Oak Builders Inc.  
 888 Brannan St. #101  
 San Francisco, CA 94103  
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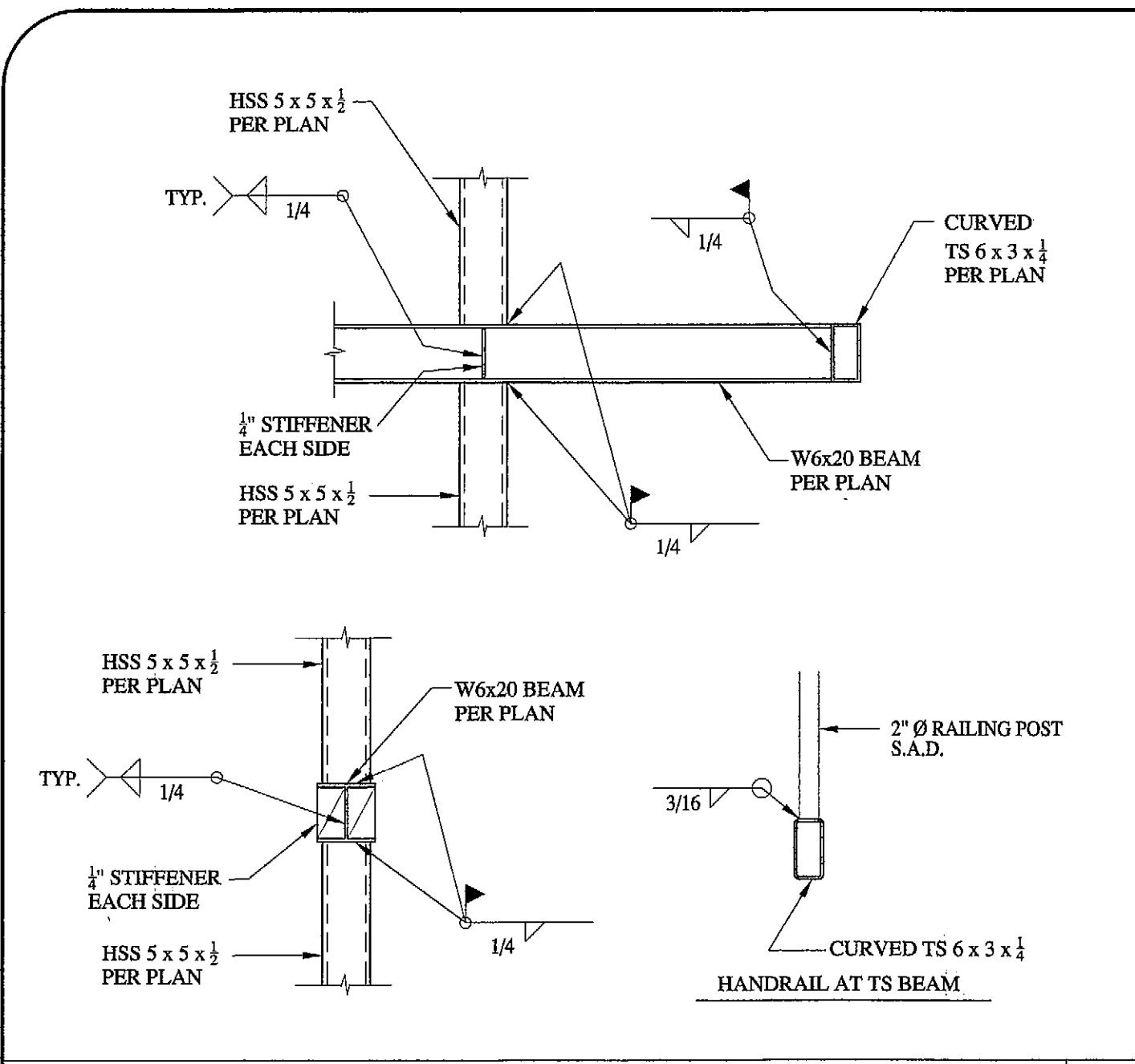
APPROVED  
 FOR OAKLAND  
 BUILDING SERVICES  
 1500 MARKET ST. 10TH  
 FLOOR OAKLAND, CA 94612  
 (415) 774-1100  
 DATE: 3/28/2014  
 BY: [Signature]  
 CHECKED: [Signature]  
 PROJECT: MECH. PLUMB.  
 NOT CHECKED

No. \_\_\_\_\_ Date \_\_\_\_\_

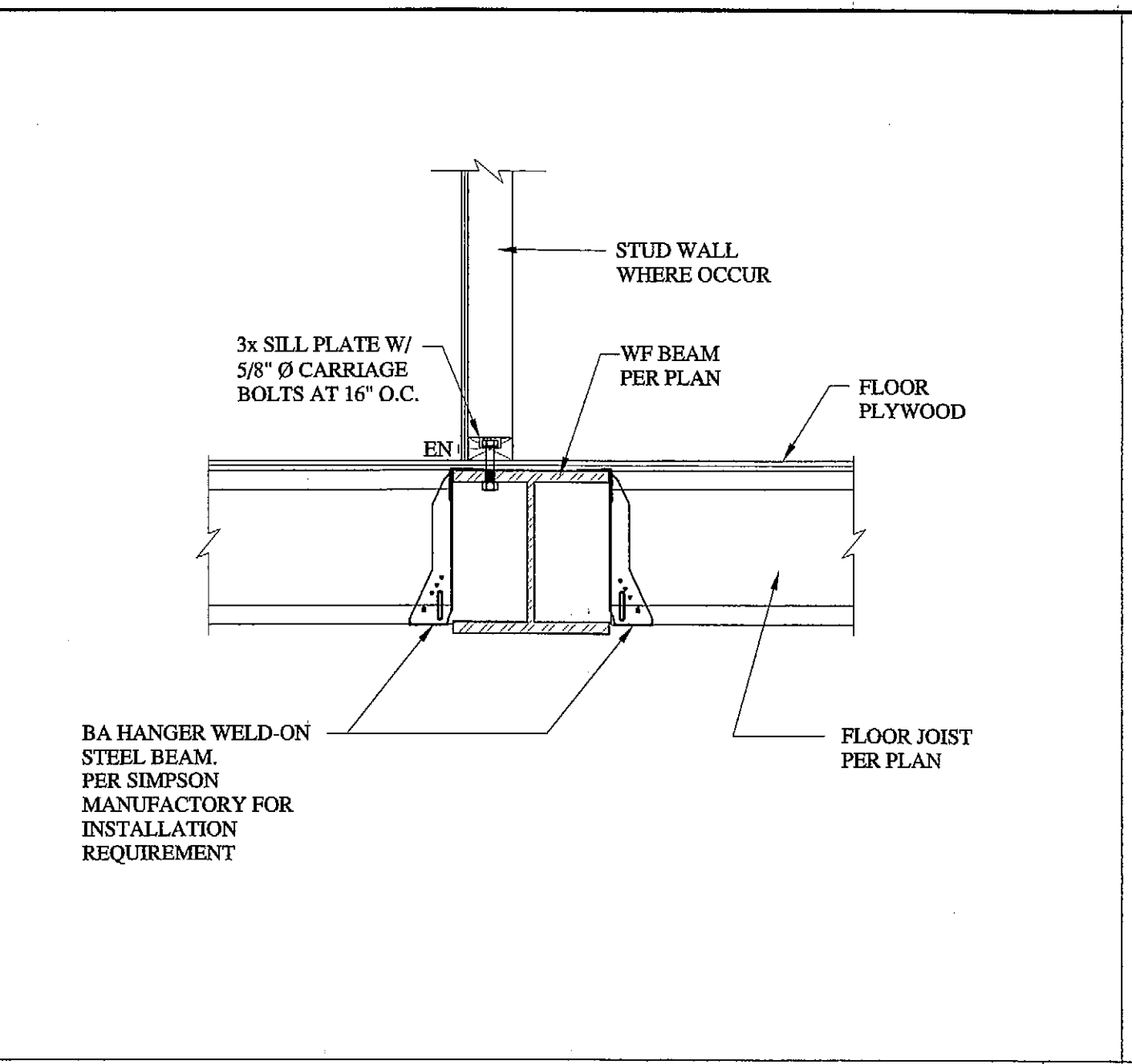
Project Name and Address  
**NEW MIXED-USE BUILDING**  
 35th St. & School St.  
 Oakland, CA

Sheet Title  
**FRAMING DETAILS**

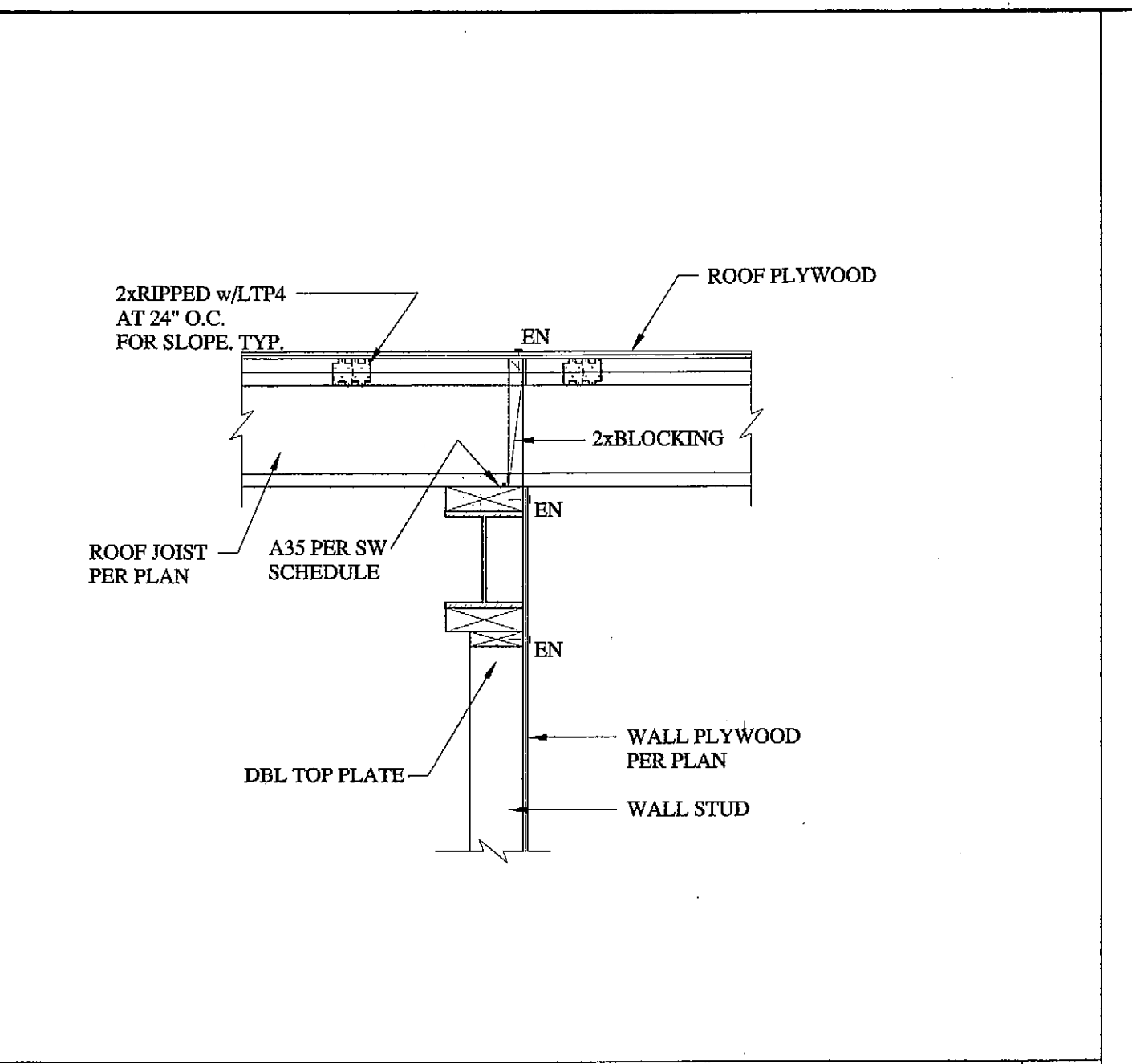
Project: **GE2382** Sheet  
 Date: **3/28/2014** **S3.1**  
 Scale



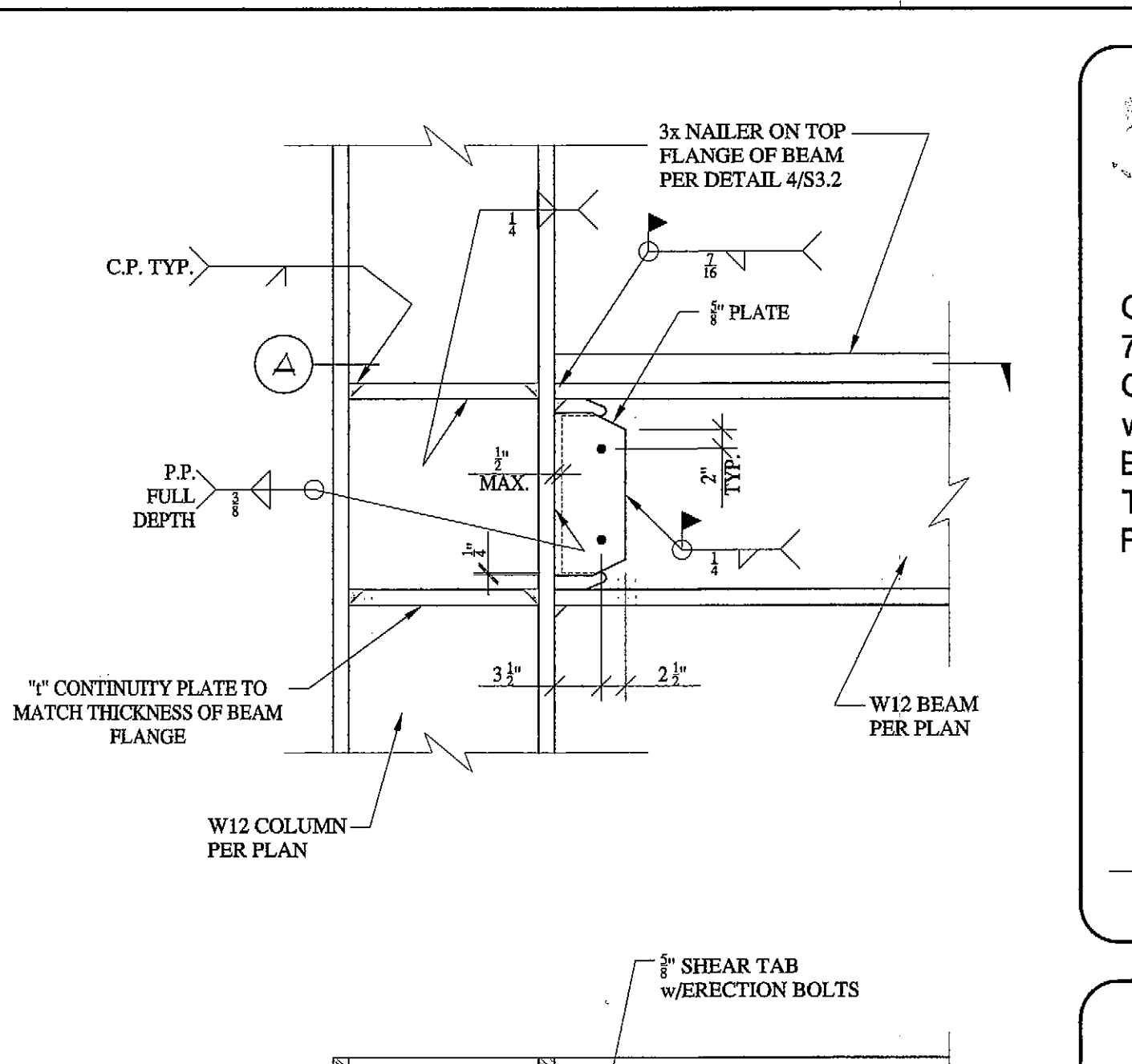
HSS COLUMN ON WF STEEL BEAM 10



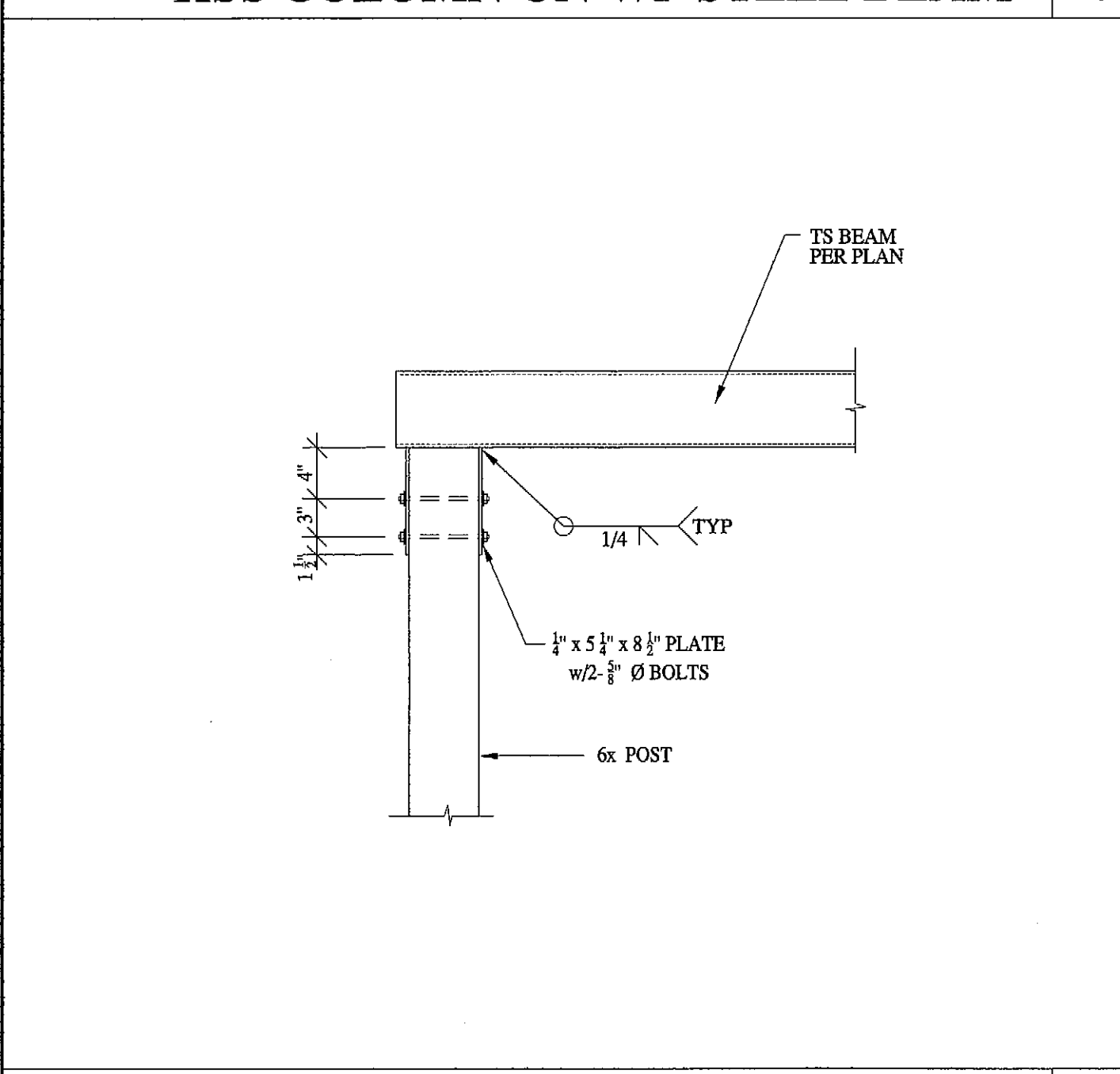
FLOOR JOIST AT WF BEAM 7



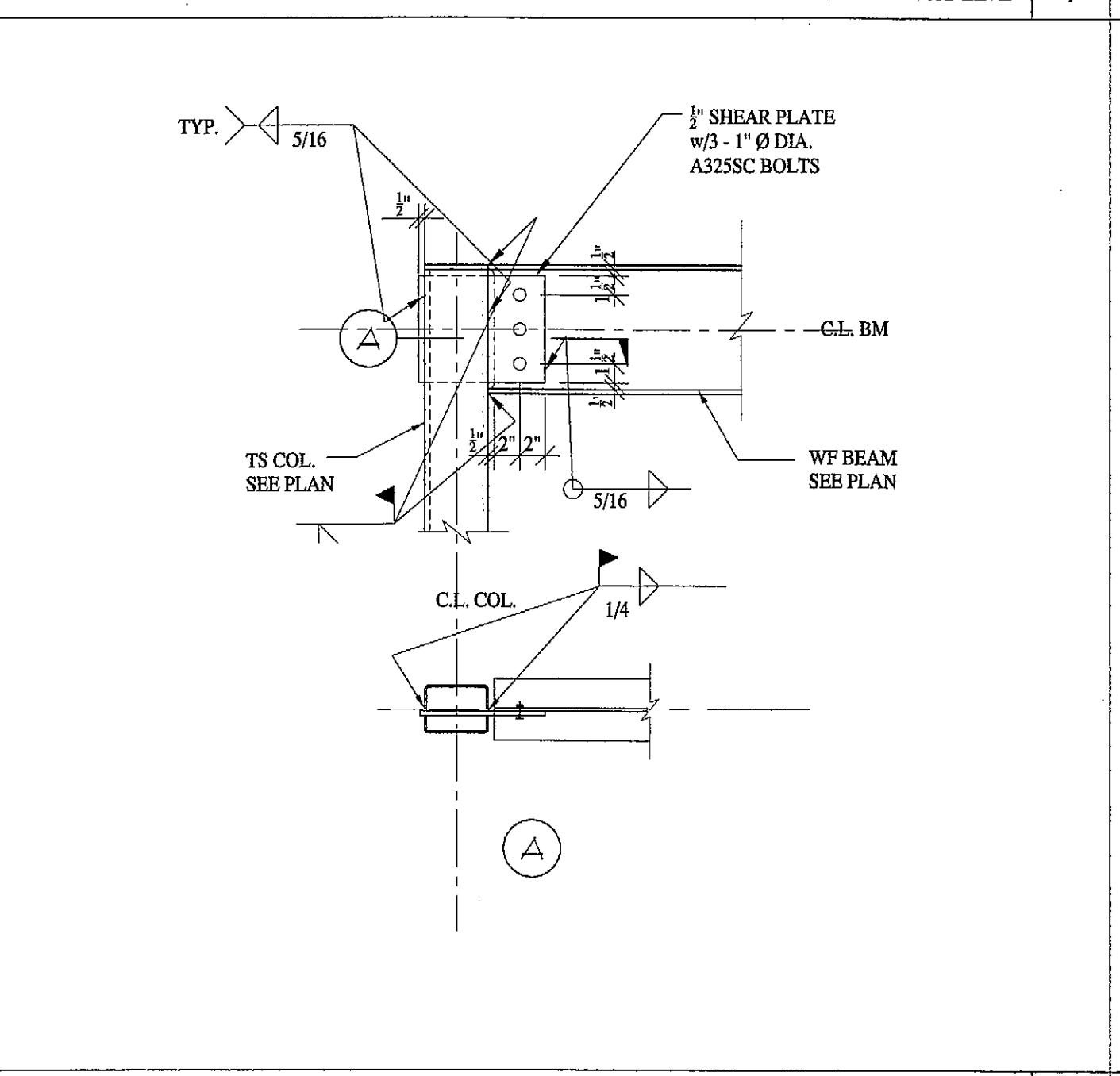
ROOF JOIST PERP. TO INTERIOR WALL 4



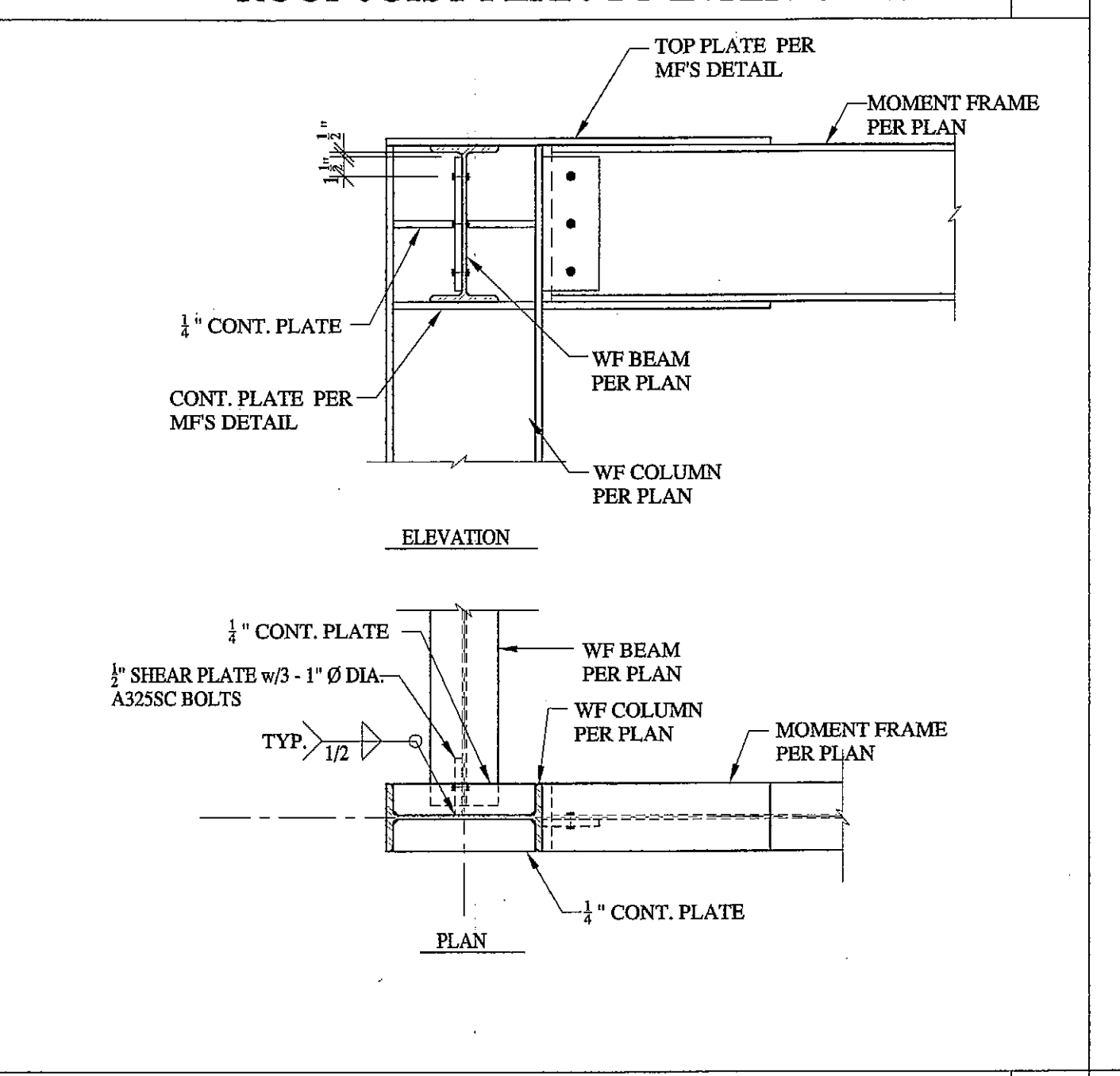
MOMENT CONNECTION 2



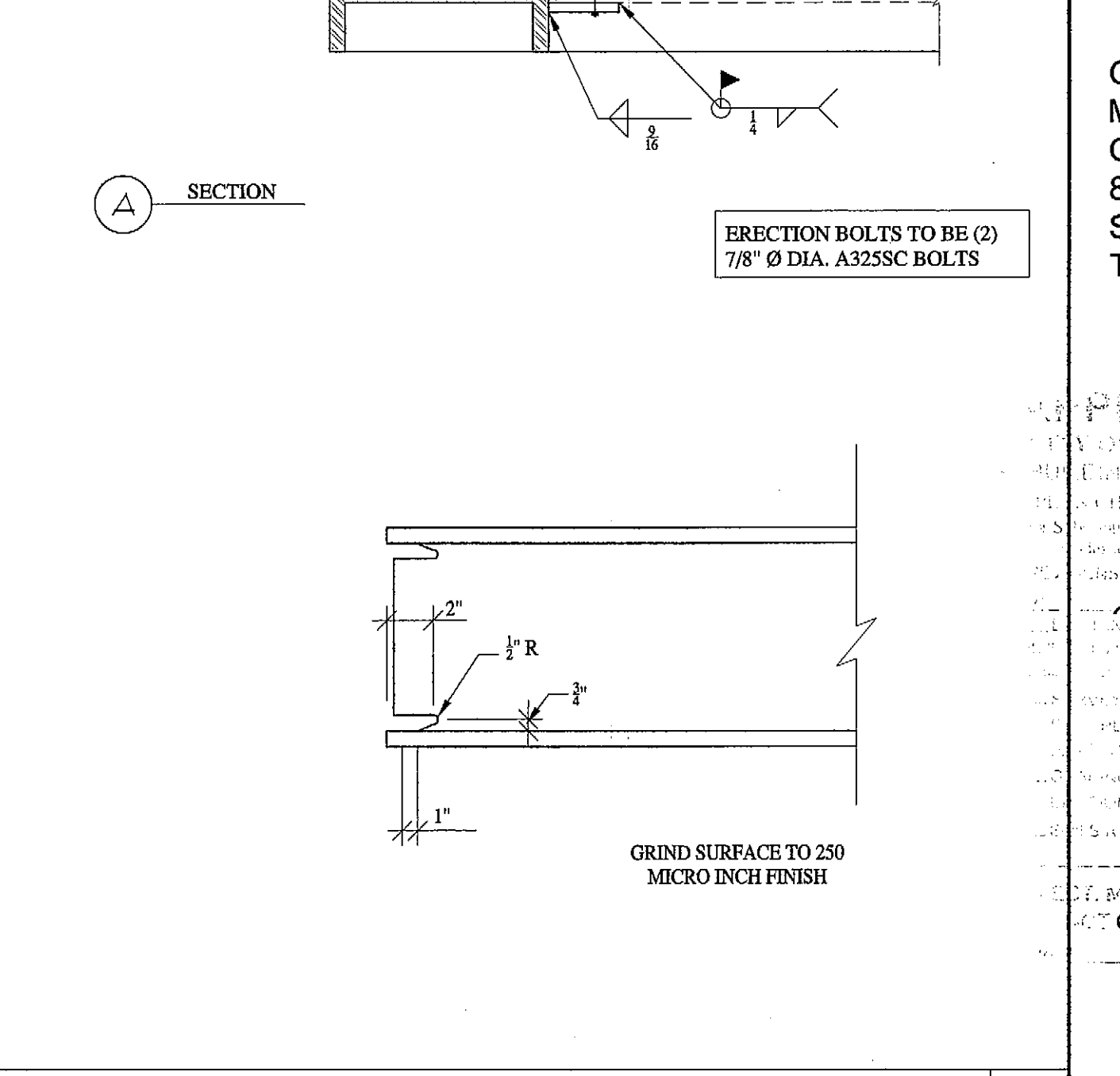
TS BEAM TO POST CONNECTION 11



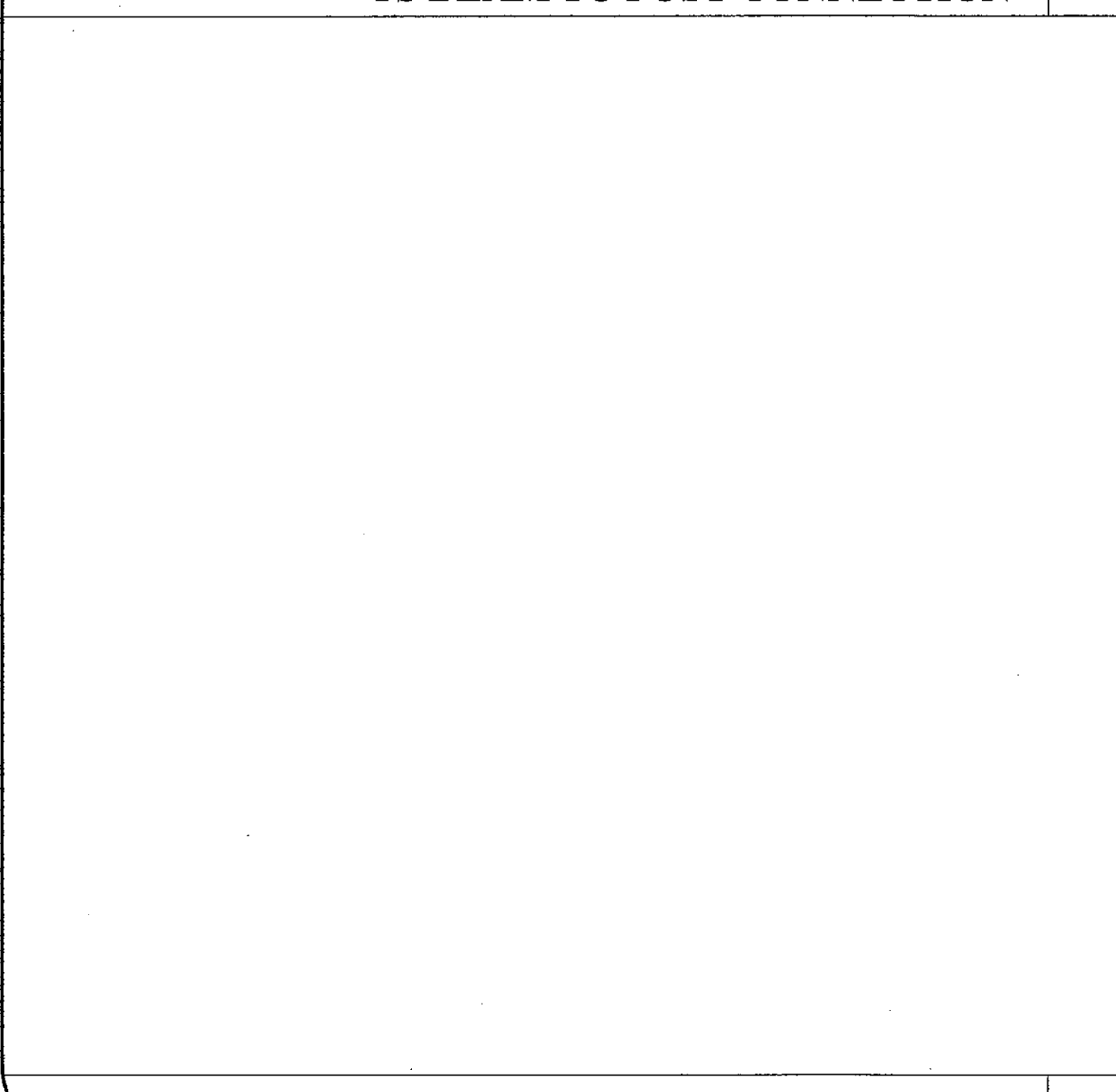
WF TO TS COLUMN CONNECTION 8



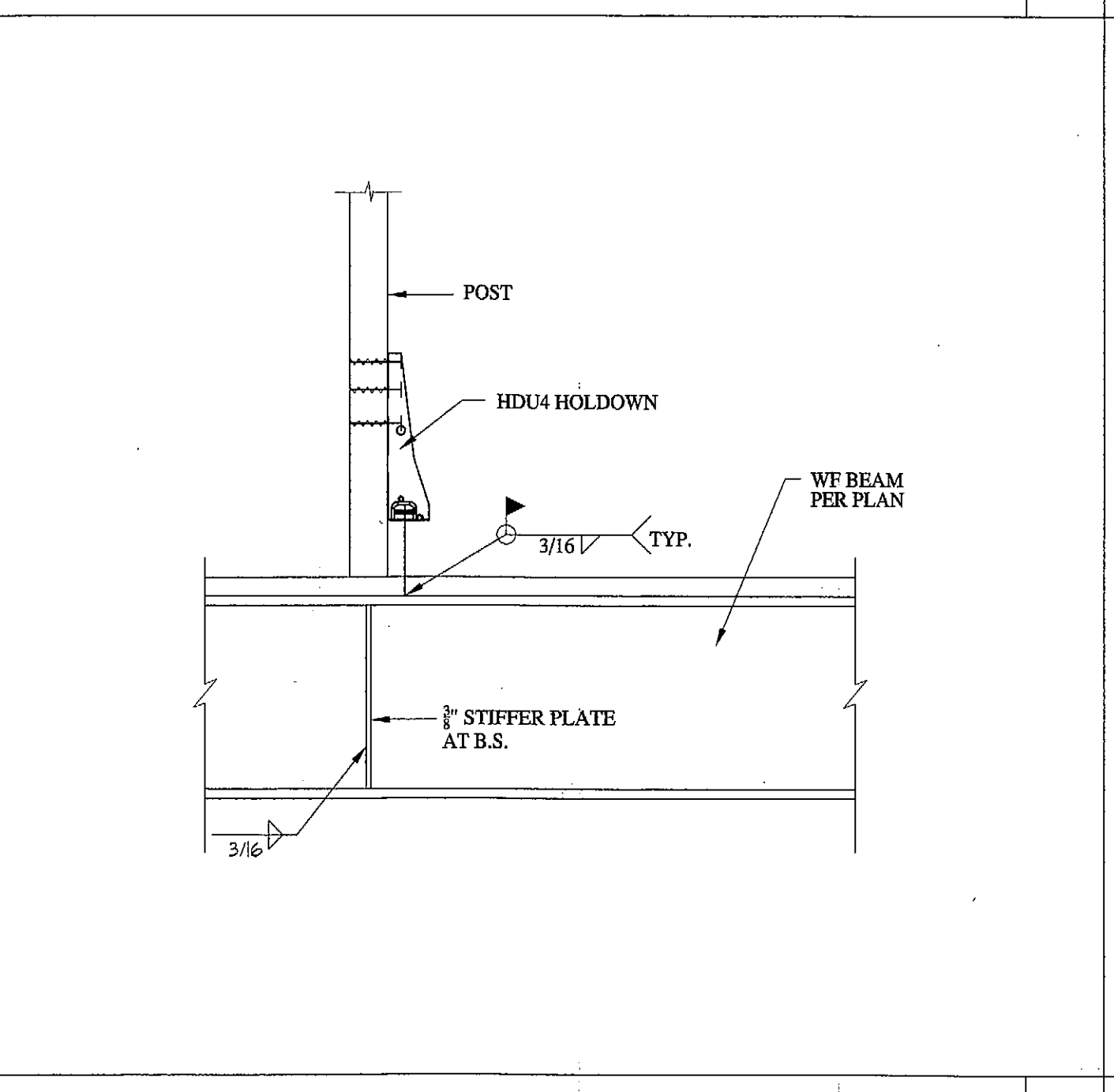
WF BEAMS AT WF COLUMN 5



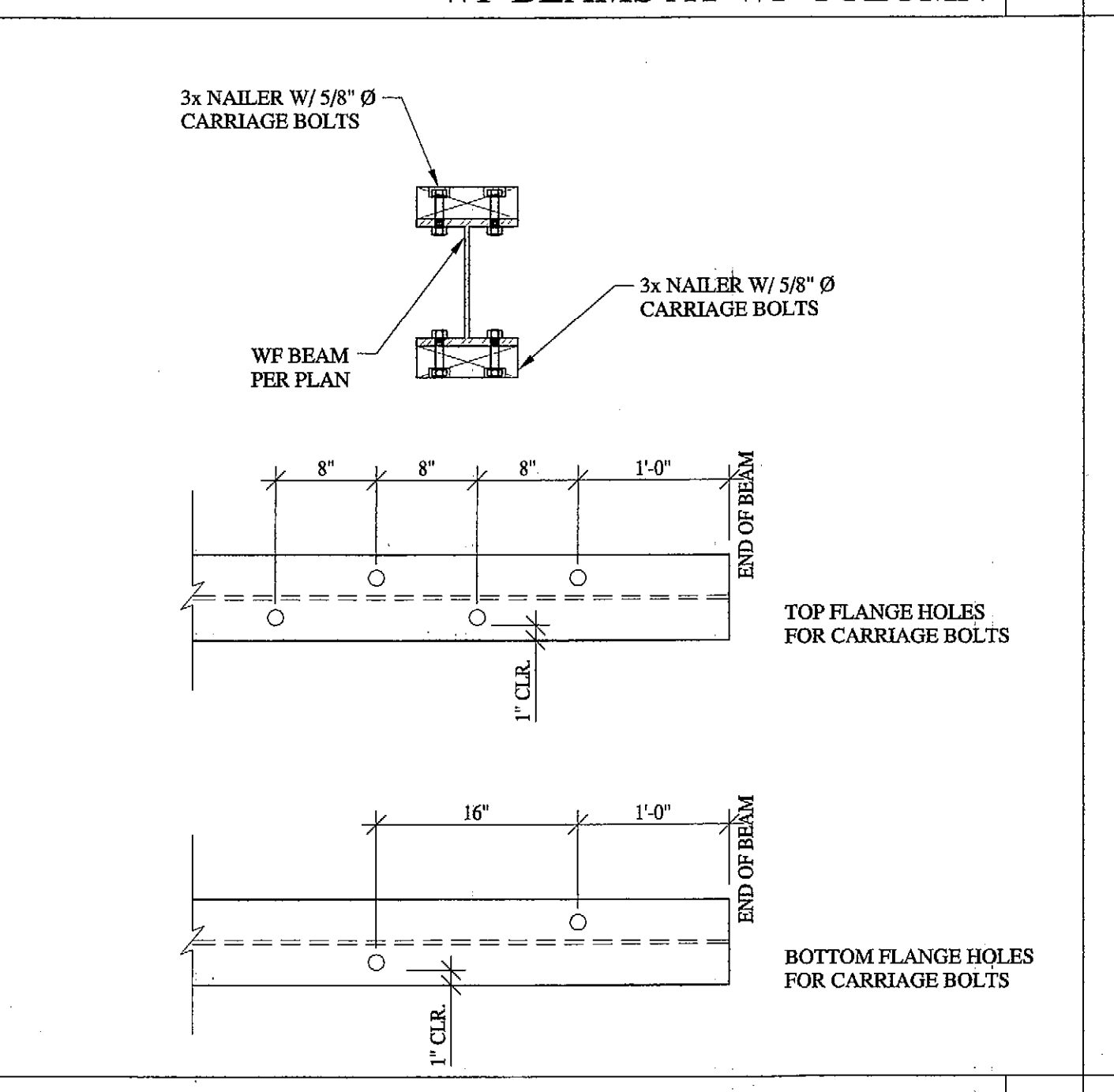
BRACED FRAME CONNECTION 3



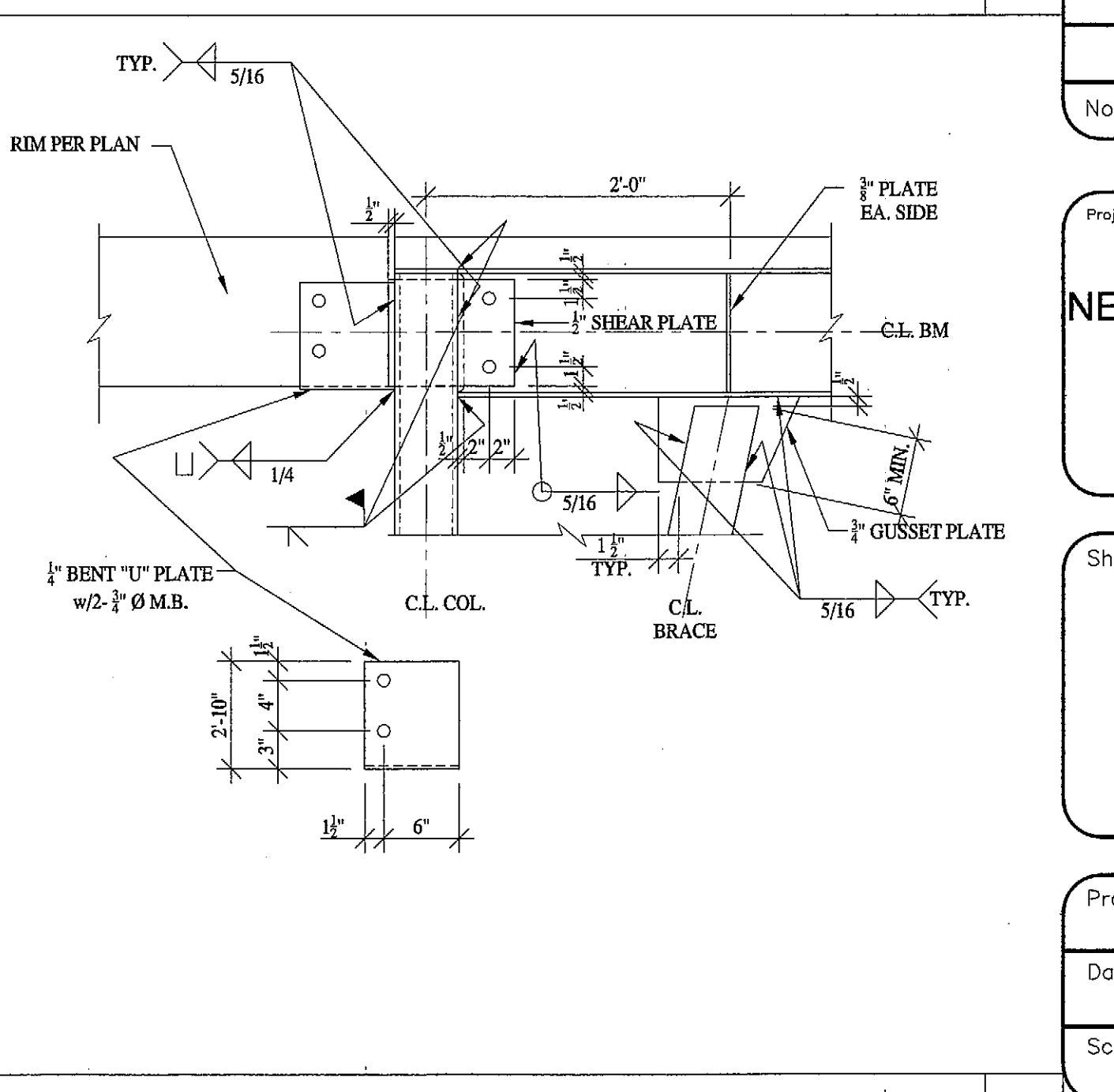
HOLDOWN ON WF BEAM 12



HOLDOWN ON WF BEAM 9



NAILERS ON WF BEAM 6



BRACED FRAME CONNECTION 3

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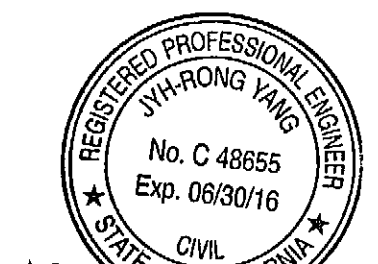
PROVED  
I, JERRY YANG, A PROFESSIONAL ENGINEER IN THE STATE OF CALIFORNIA, LICENSE NO. C 48855, DO HEREBY CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT REPRESENTATION OF THE PROJECT AS SHOWN ON THE ATTACHED DRAWINGS AND AS APPROVED BY ME ON 06/11/14.

No.	Date

Project Name and Address  
**NEW MIXED-USE BUILDING**  
35th St. & School St.  
Oakland, CA

Sheet Title  
**FRAMING DETAILS**

Project	GE2382	Sheet	
Date	3/28/2014	Scale	S3.2



Jerry Yang, P.E.; G.E.

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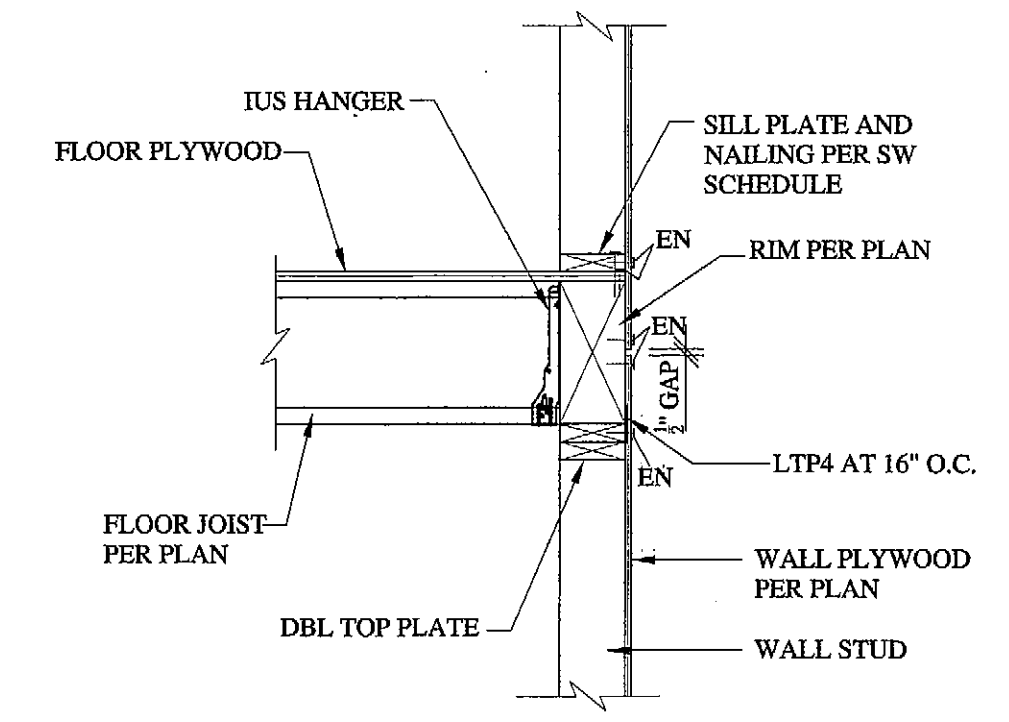
**APPLICANT COPY**

No. \_\_\_\_\_ Date \_\_\_\_\_

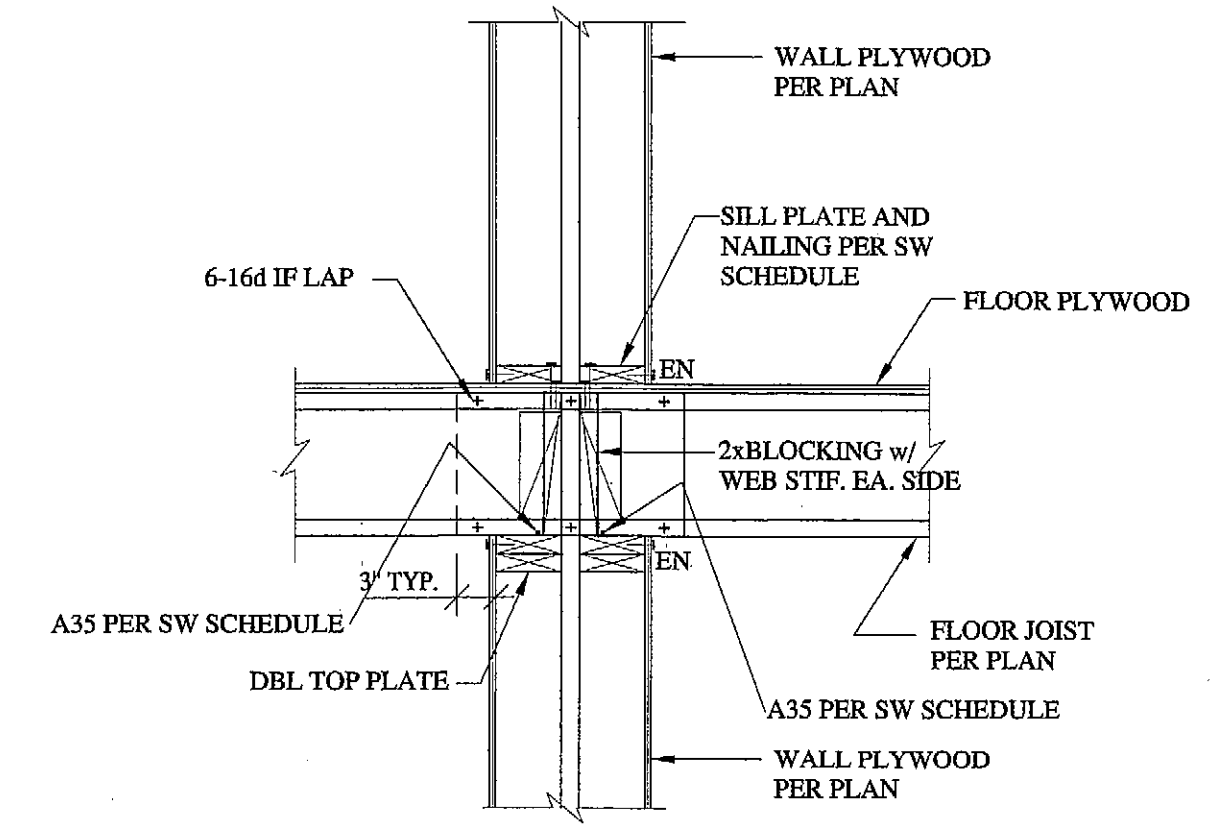
Project Name and Address  
**NEW MIXED-USE BUILDING**  
35th St. & School St.  
Oakland, CA

Sheet Title  
**FRAMING DETAILS**

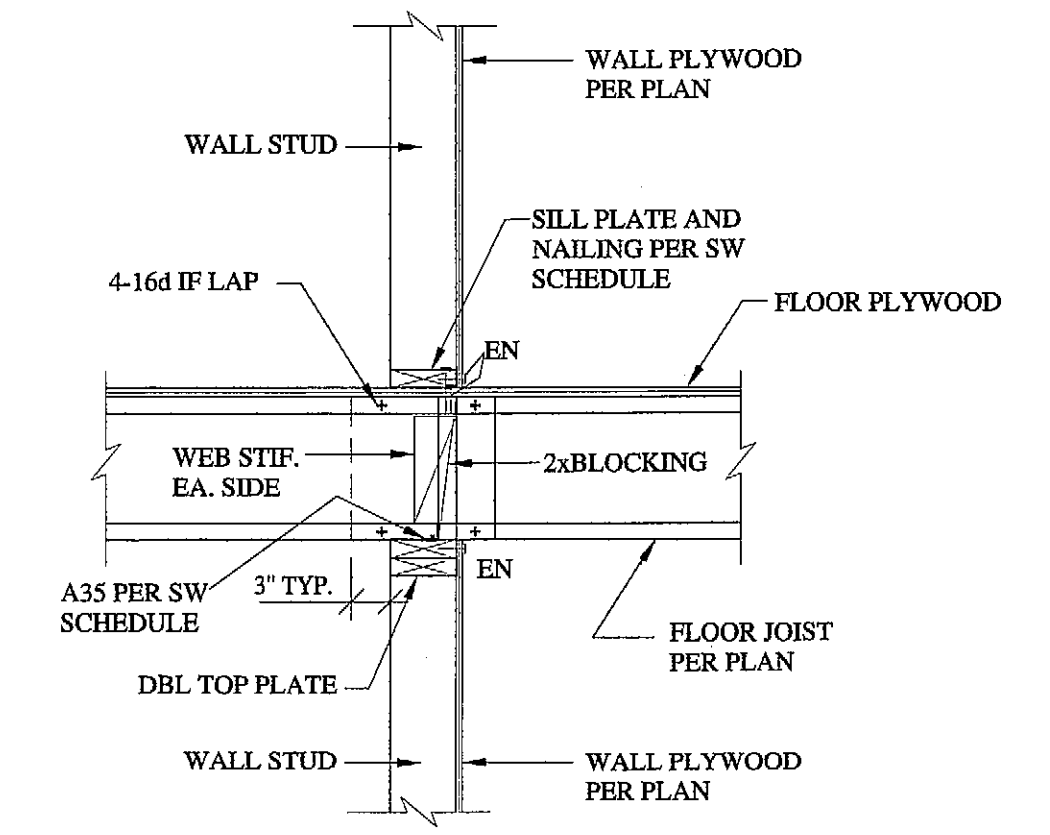
Project **GE2382** Sheet  
Date **3/28/2014** **S3.3**  
Scale \_\_\_\_\_



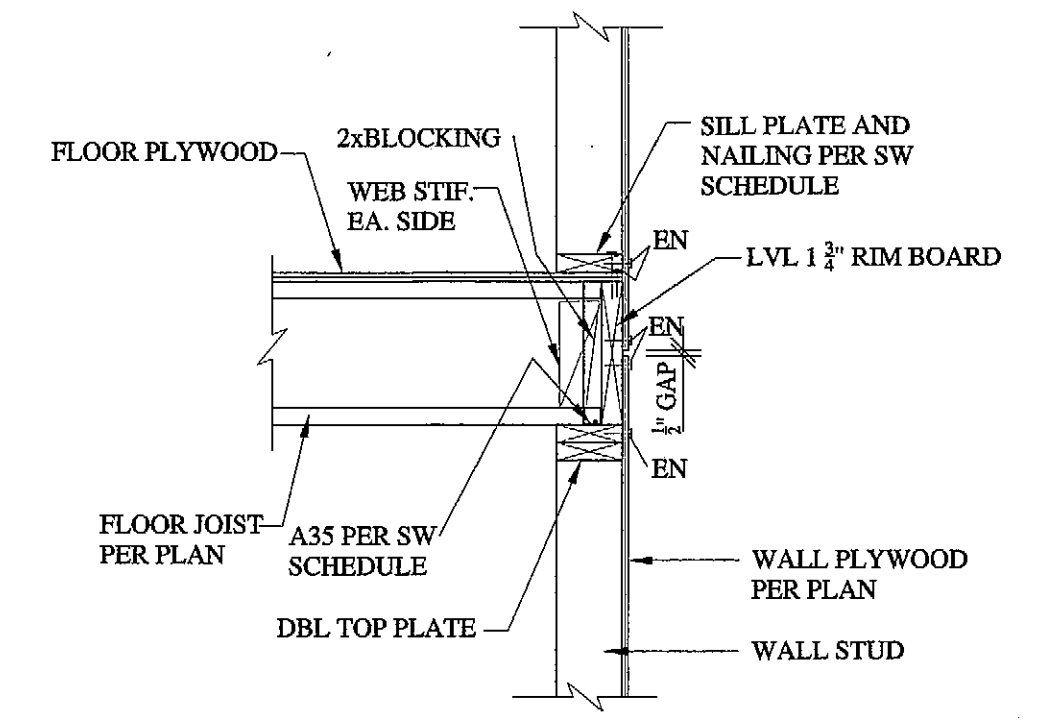
FLOOR JOIST PERP. TO EXTERIOR WALL 10



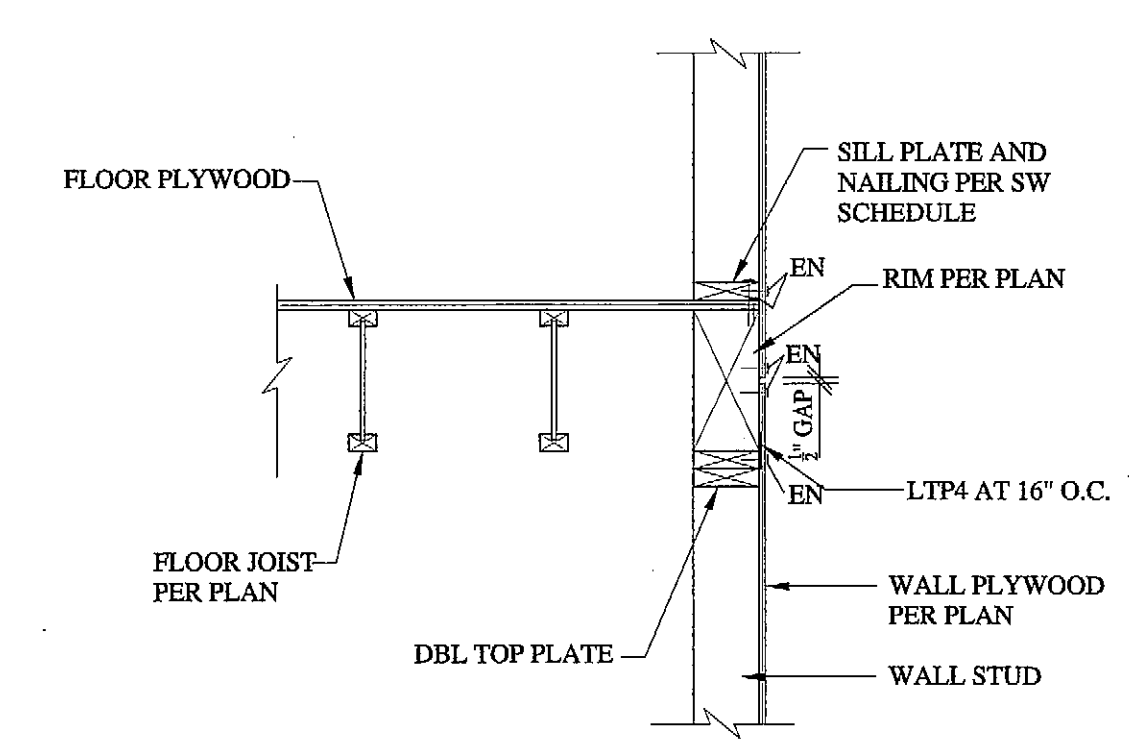
FLOOR JOIST PERP. TO INTERIOR WALL 7



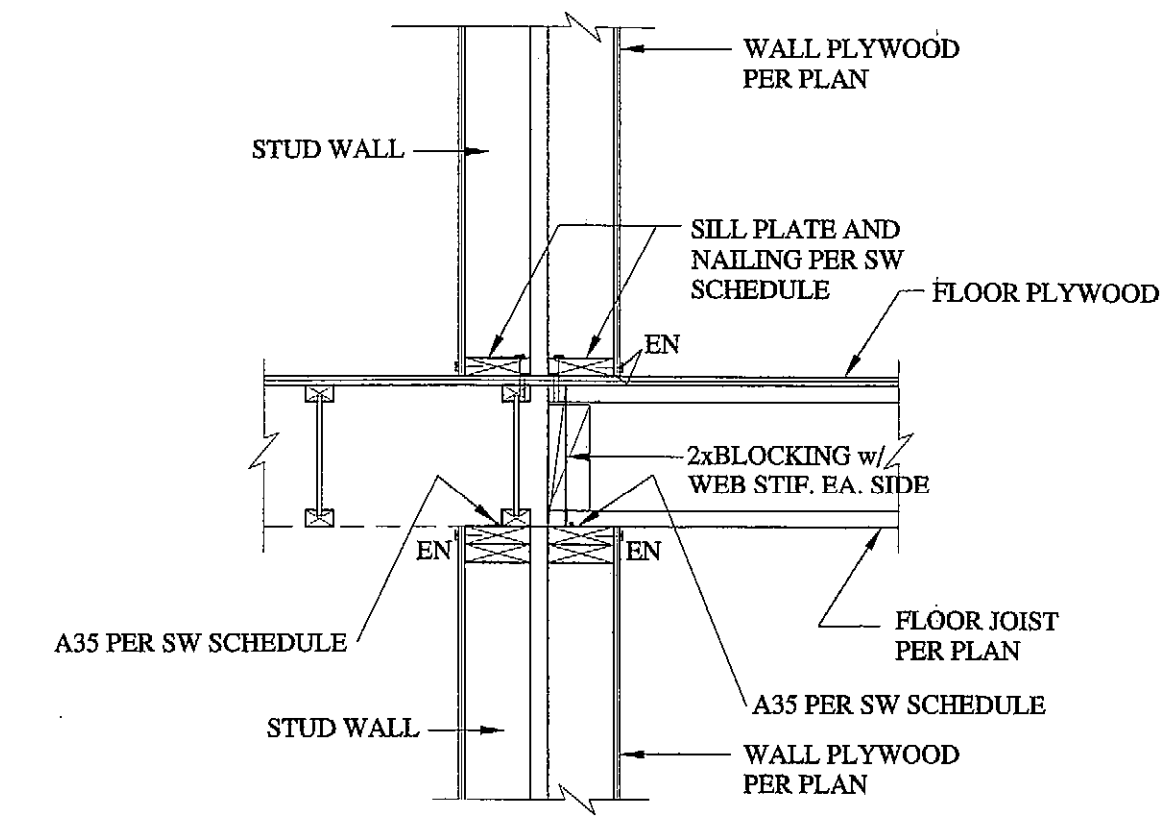
FLOOR JOIST PERP. TO INTERIOR WALL 4



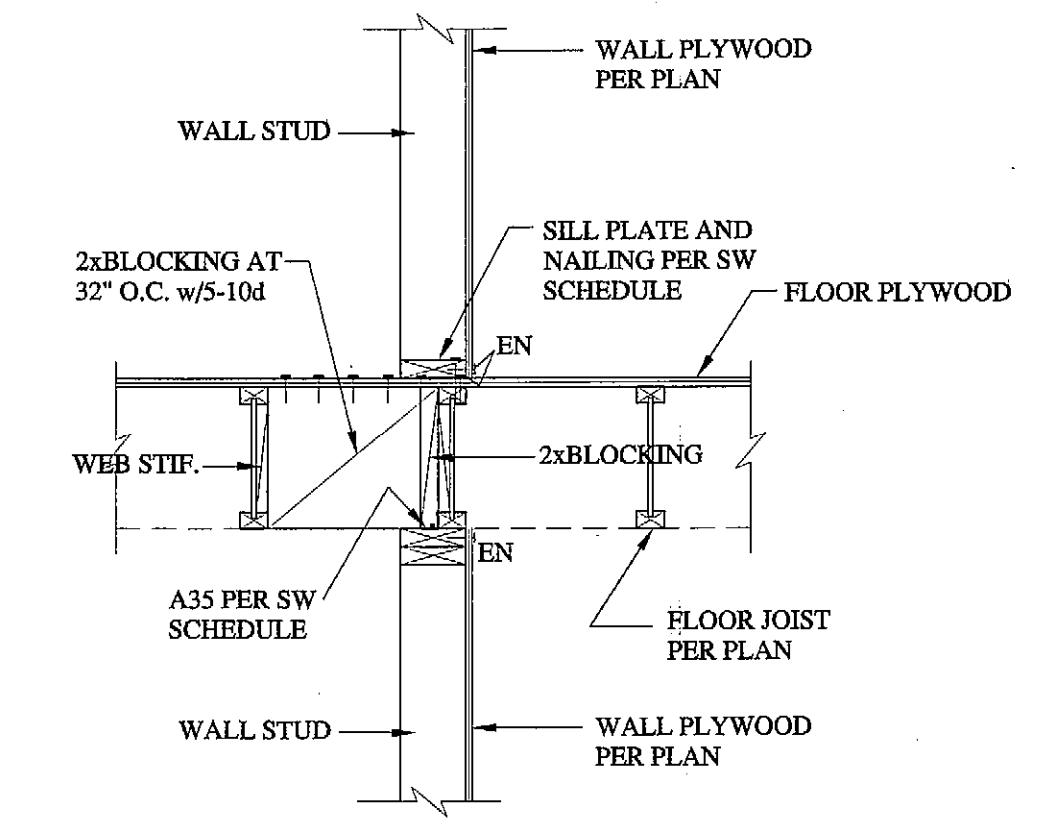
FLOOR JOIST PERP. TO EXTERIOR WALL 1



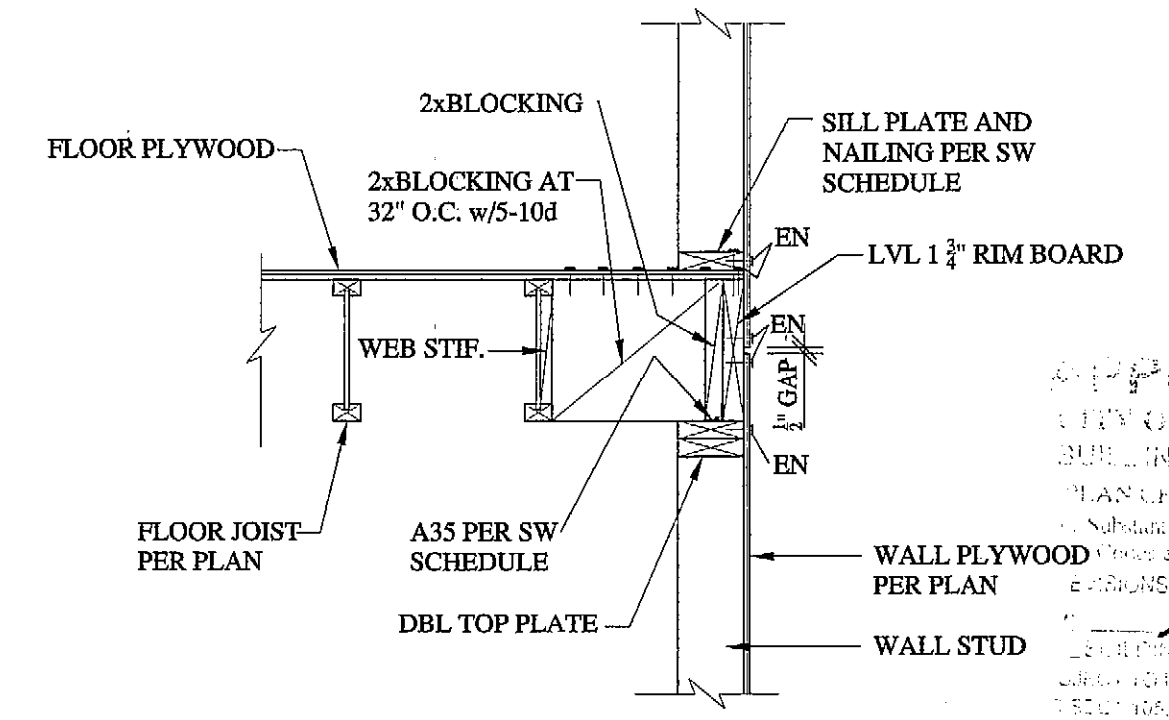
FLOOR JOIST PARA. TO EXTERIOR WALL 11



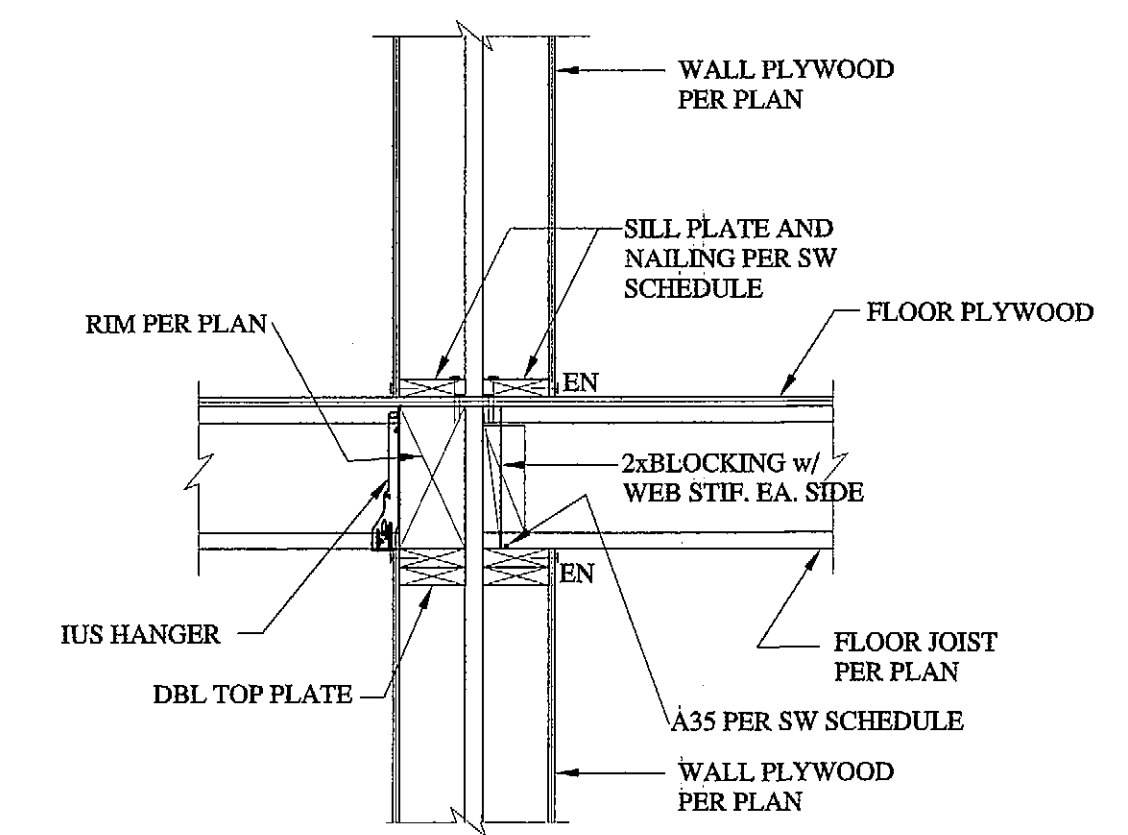
FLOOR JOIST AT INTERIOR WALL 8



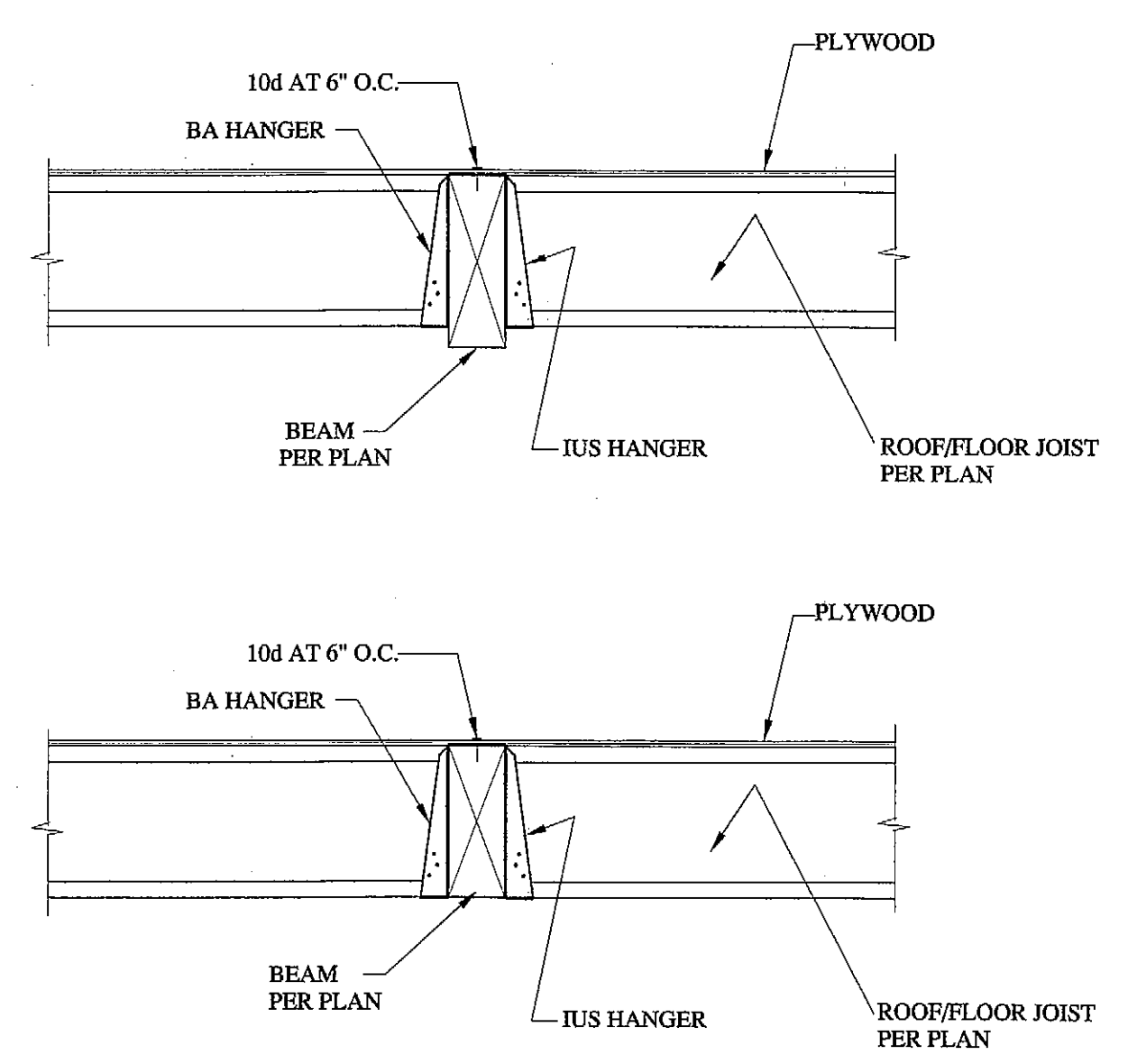
FLOOR JOIST PARA. TO INTERIOR WALL 5



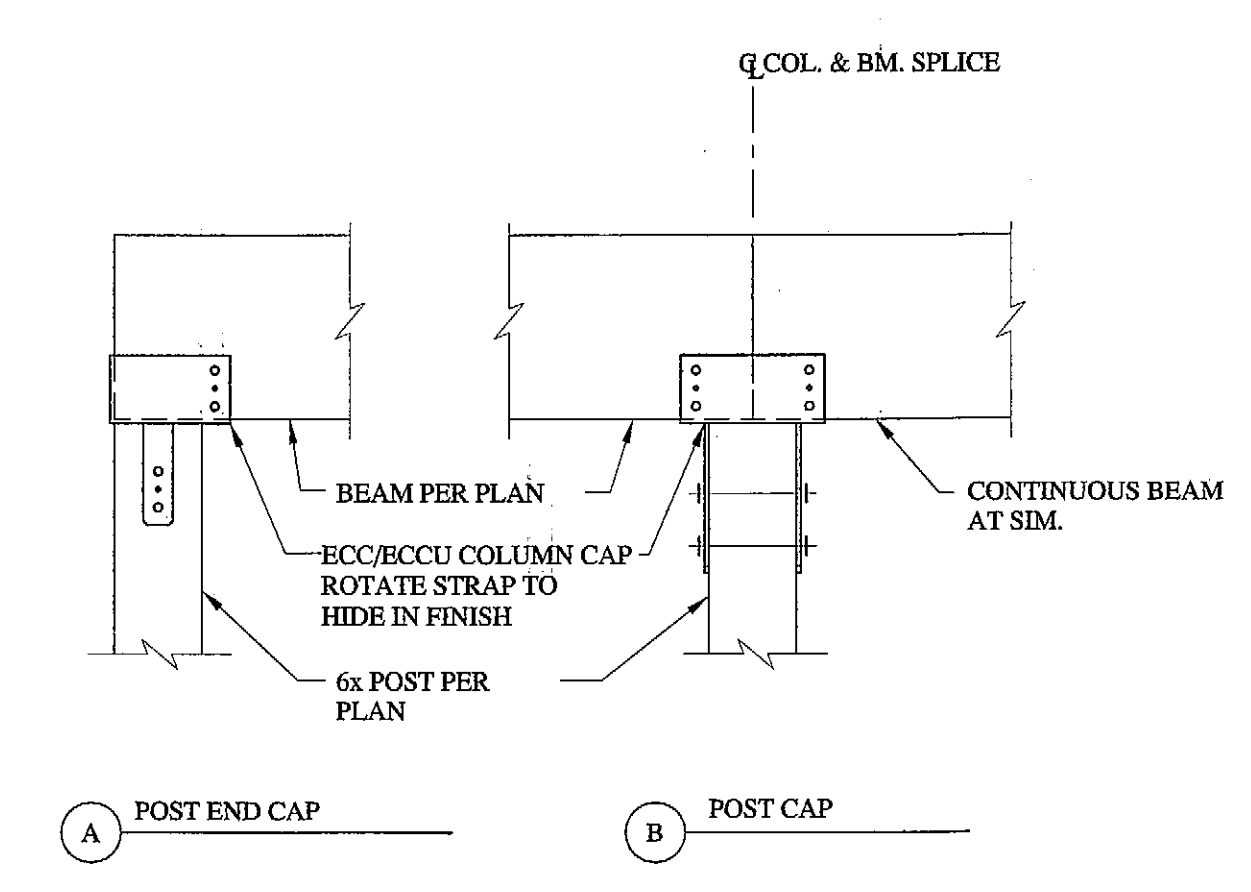
FLOOR JOIST PARA. TO EXTERIOR WALL 2



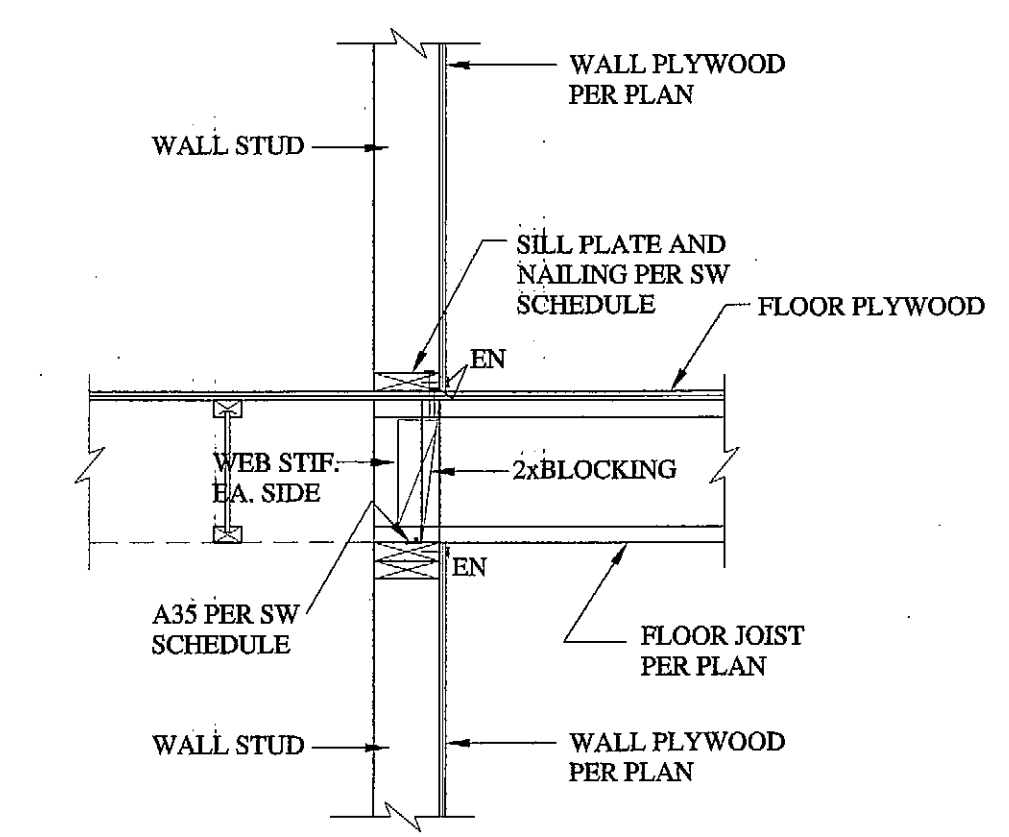
FLOOR JOIST PERP. TO INTERIOR WALL 12



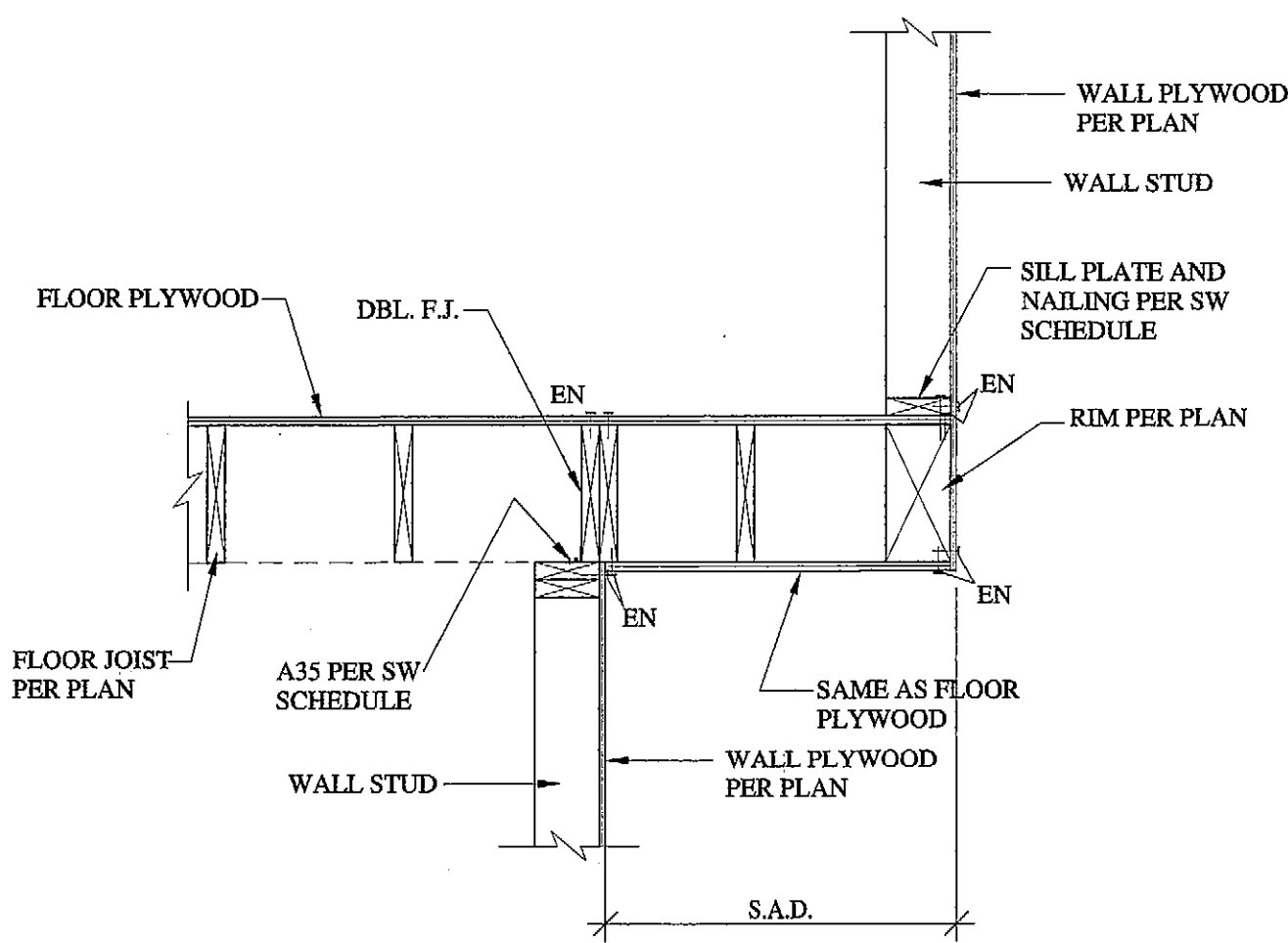
JOIST AT WOOD BEAM 9



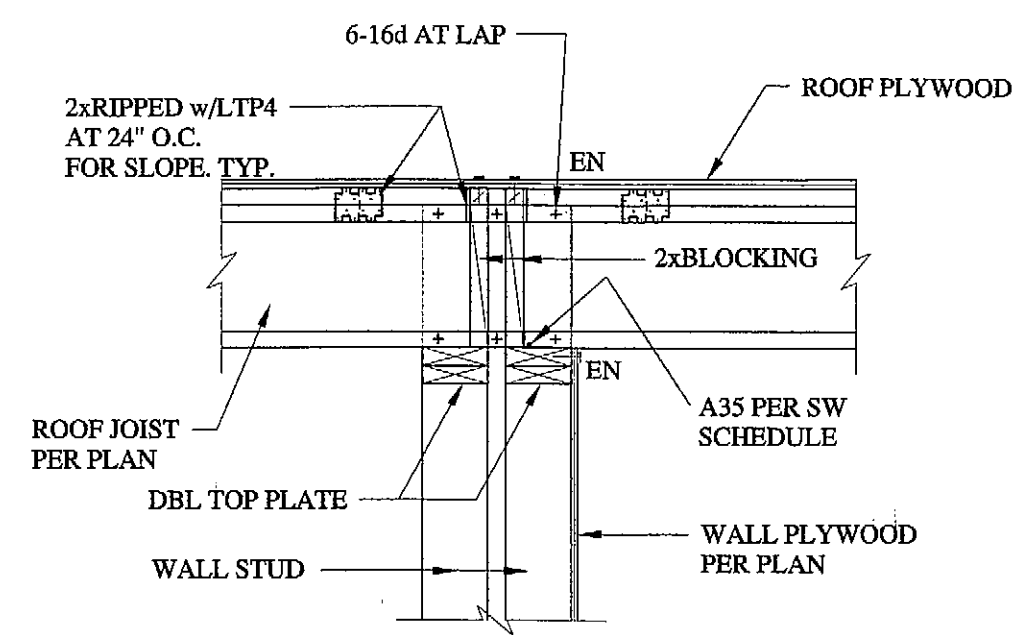
BEAM TO POST CONNECTION 6



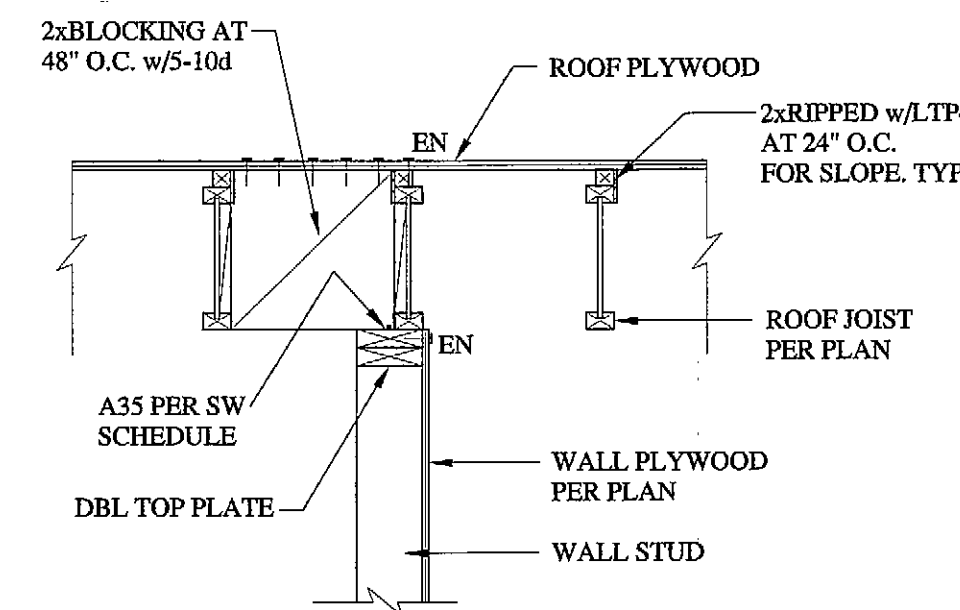
FLOOR JOIST AT INTERIOR WALL 3



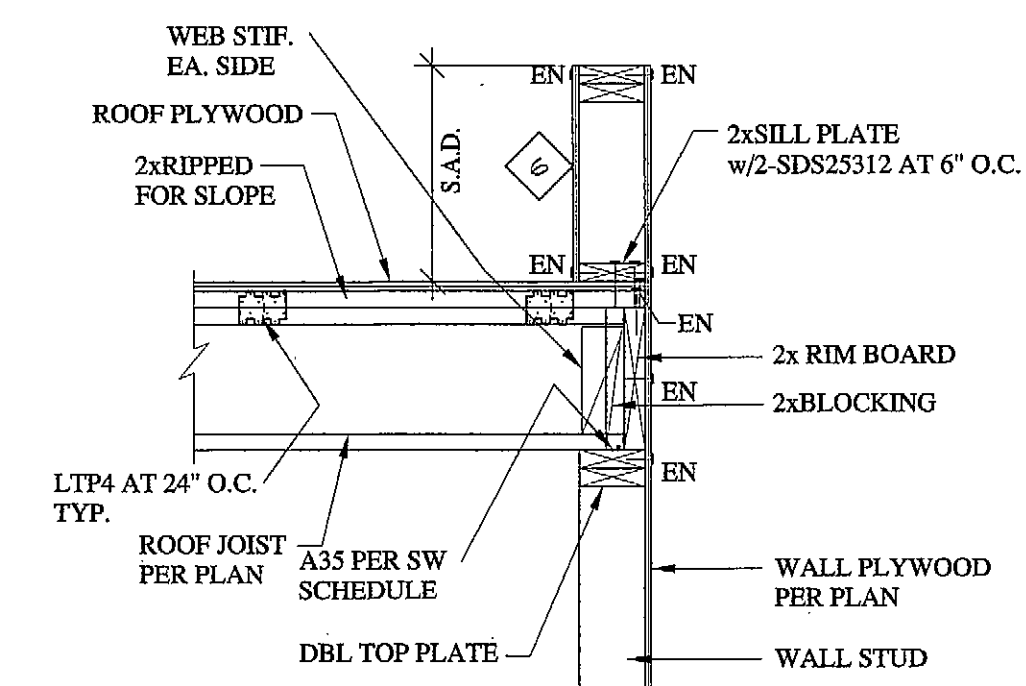
CANTILEVERED FLOOR | 10



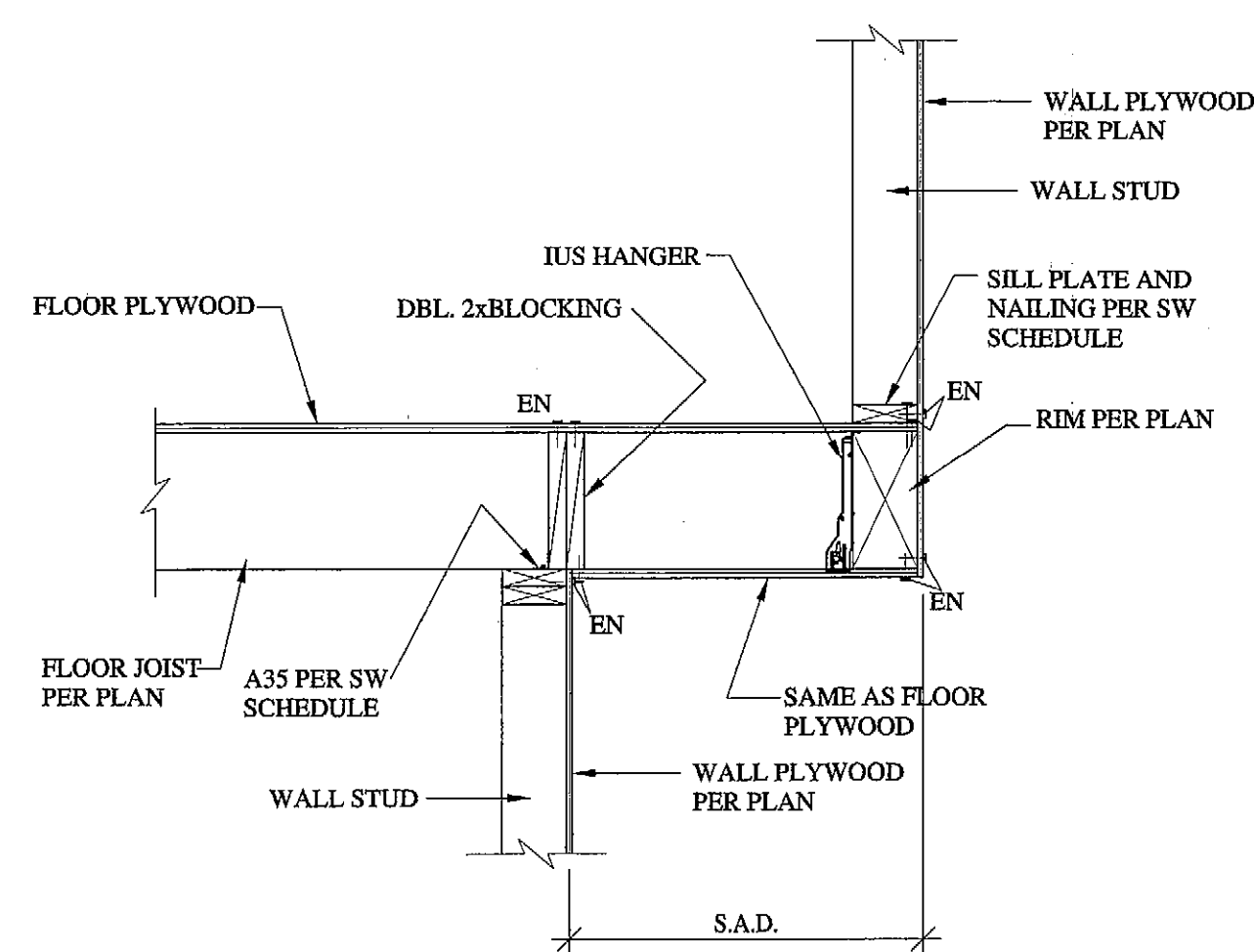
ROOF JOIST PERP. TO INTERIOR WALL | 7



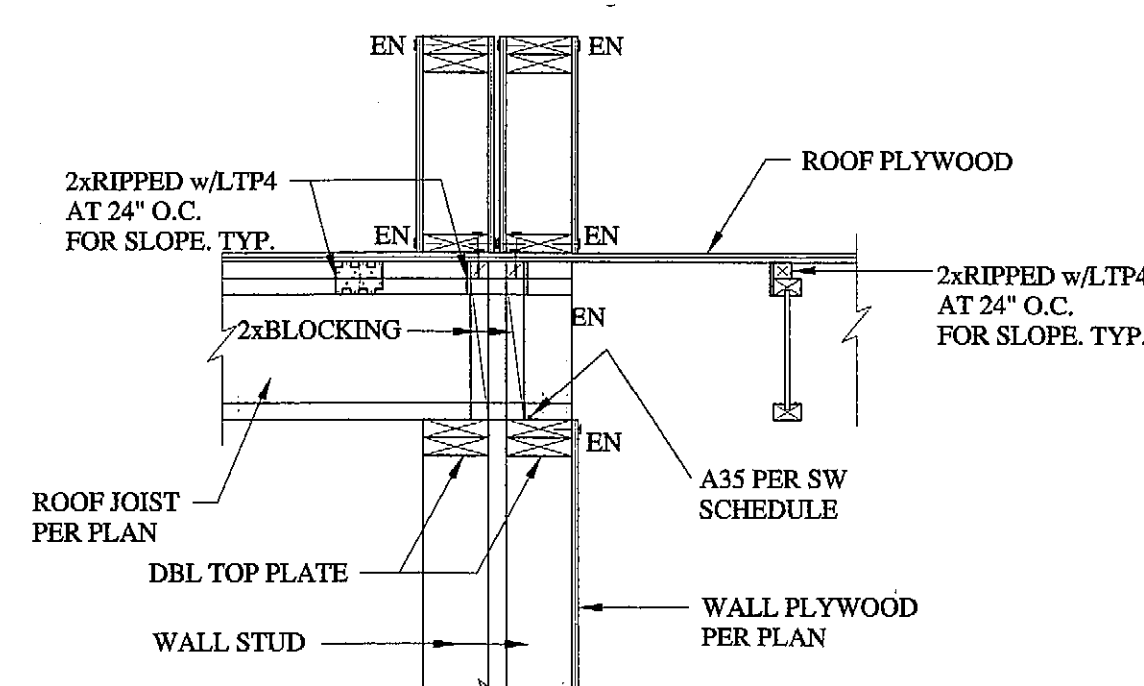
ROOF JOIST PARA. TO INTERIOR WALL | 4



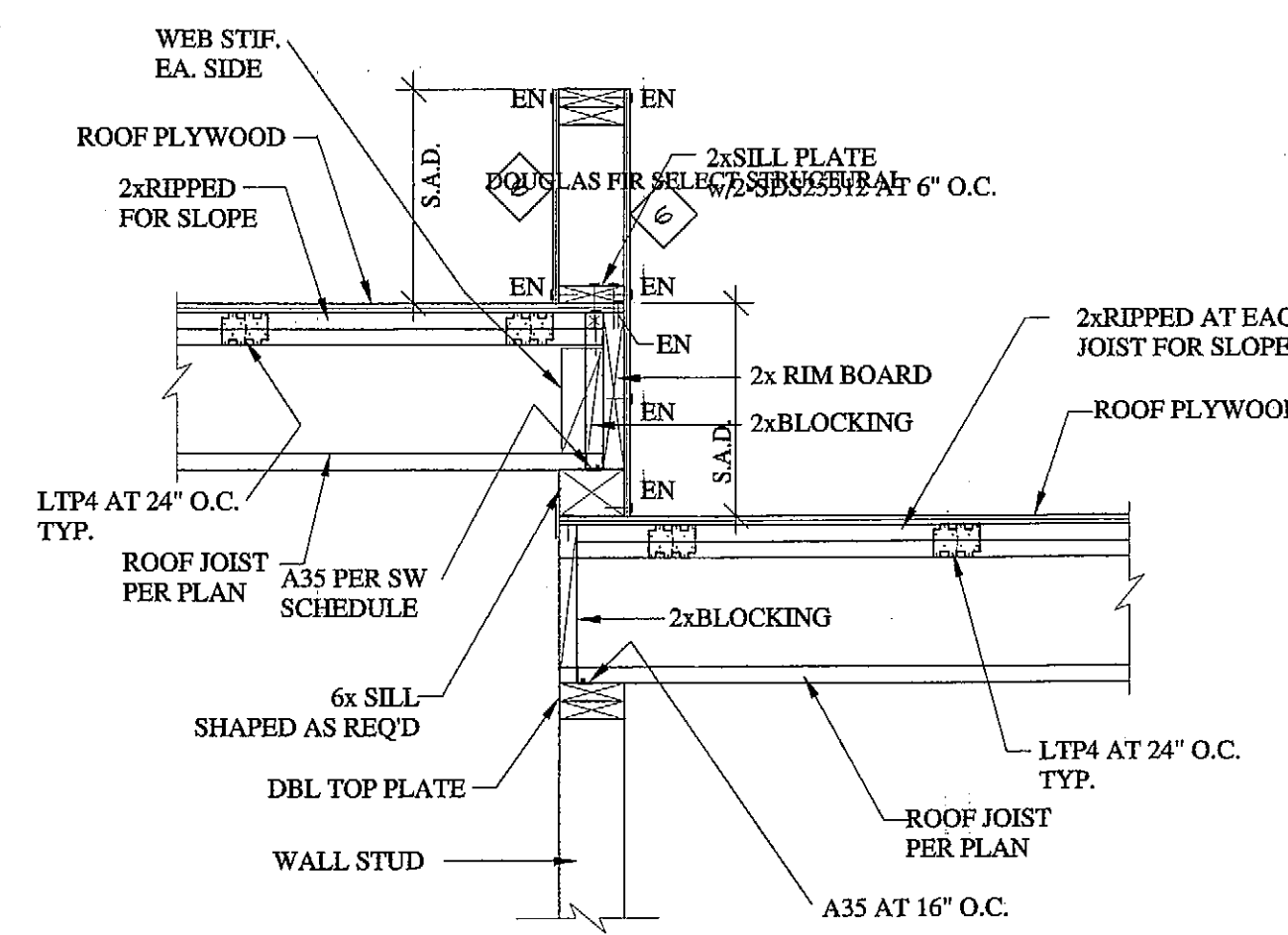
ROOF JOIST PERP. TO EXTERIOR WALL | 1



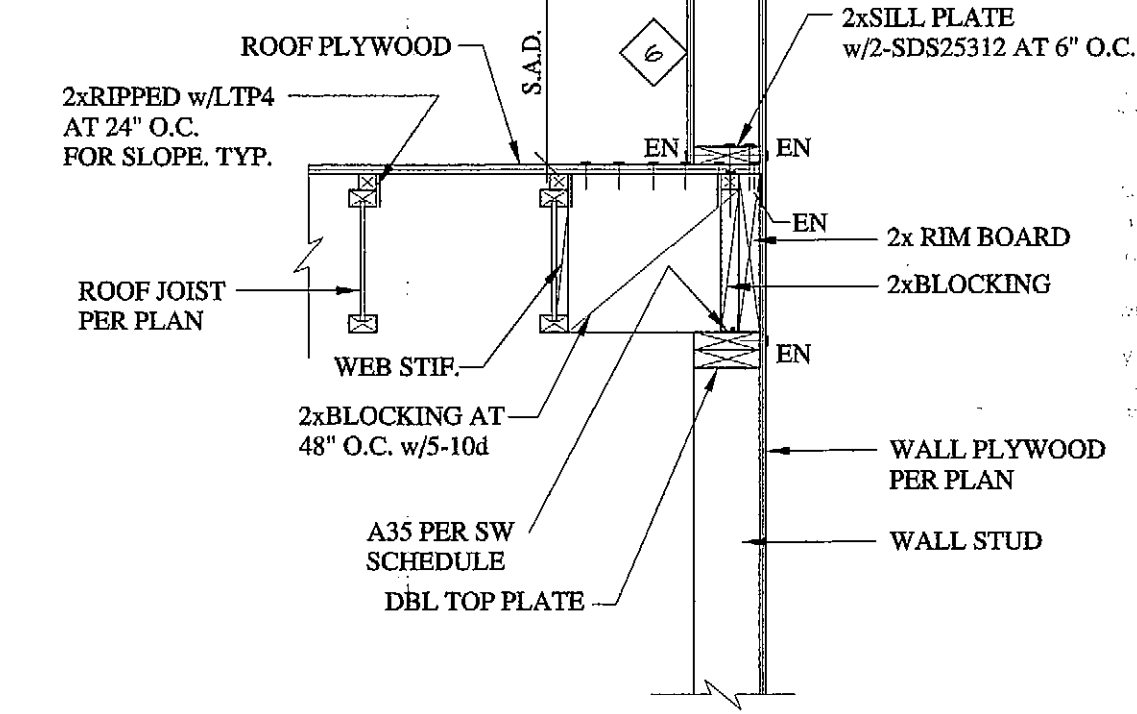
CANTILEVERED FLOOR | 11



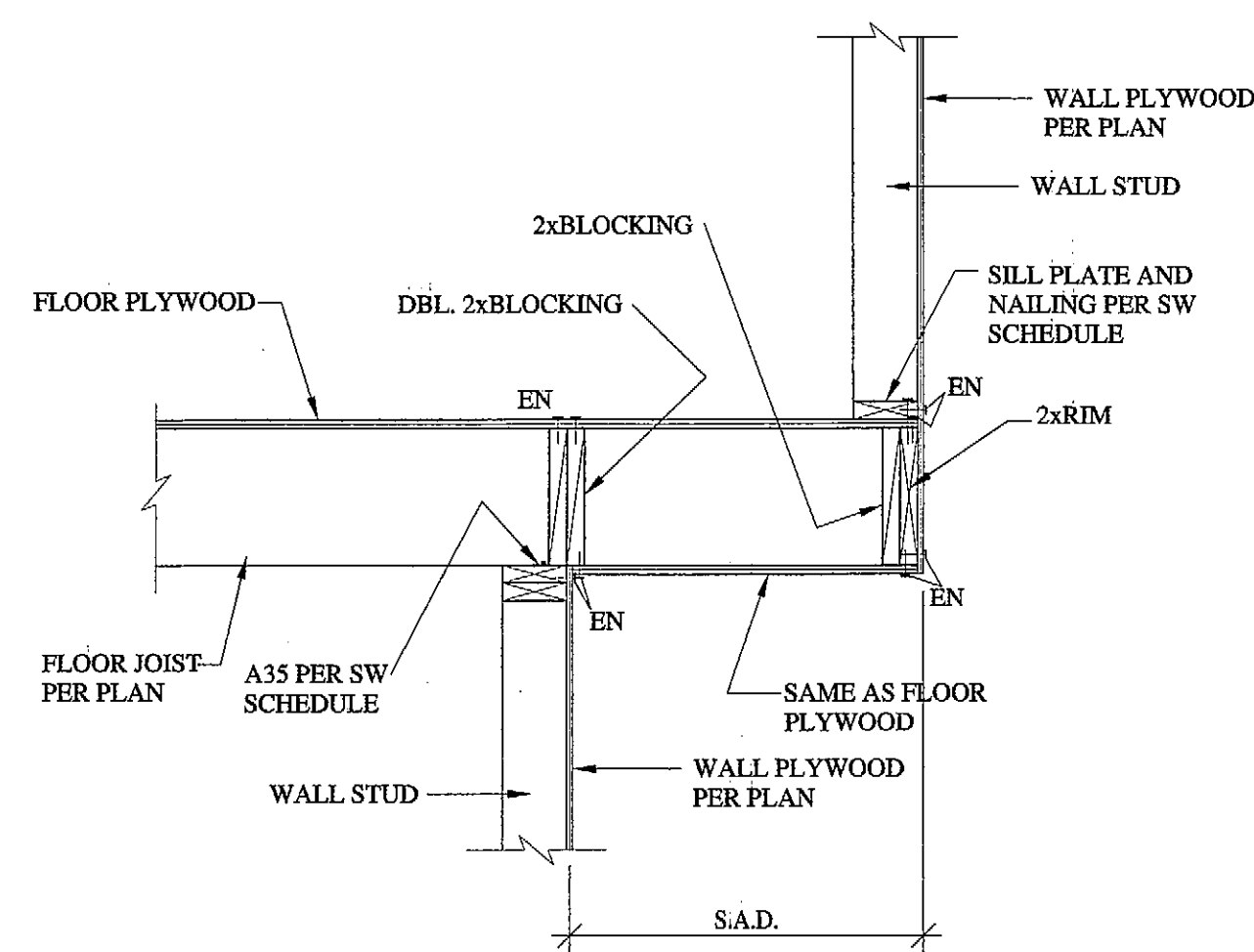
ROOF JOIST PERP. TO INTERIOR WALL | 8



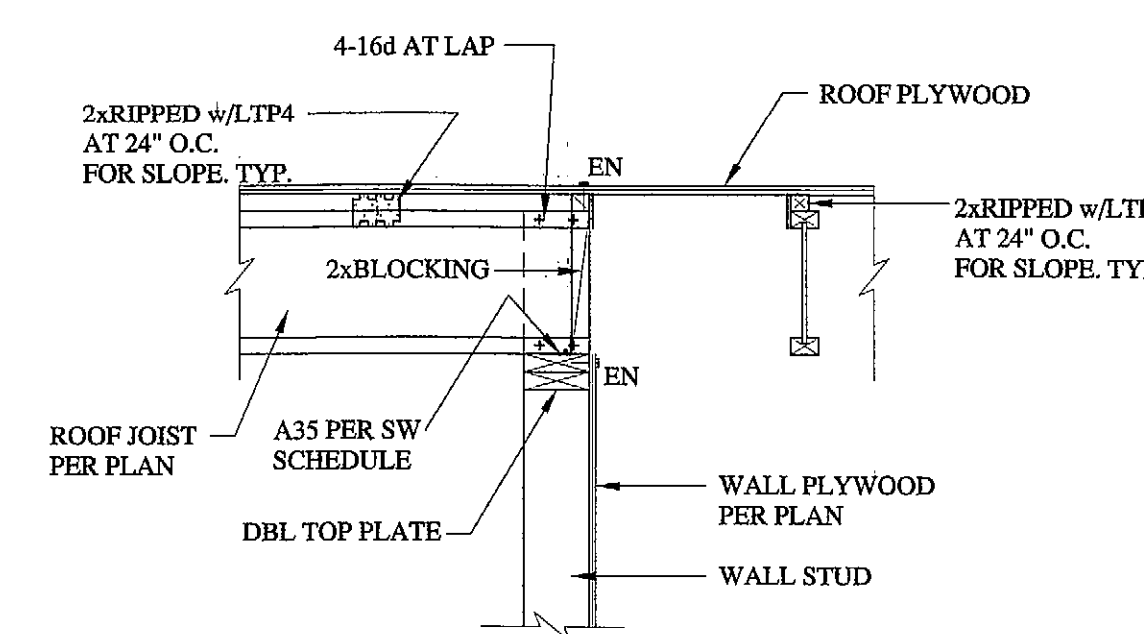
ROOF JOIST PERP. TO EXTERIOR WALL | 5



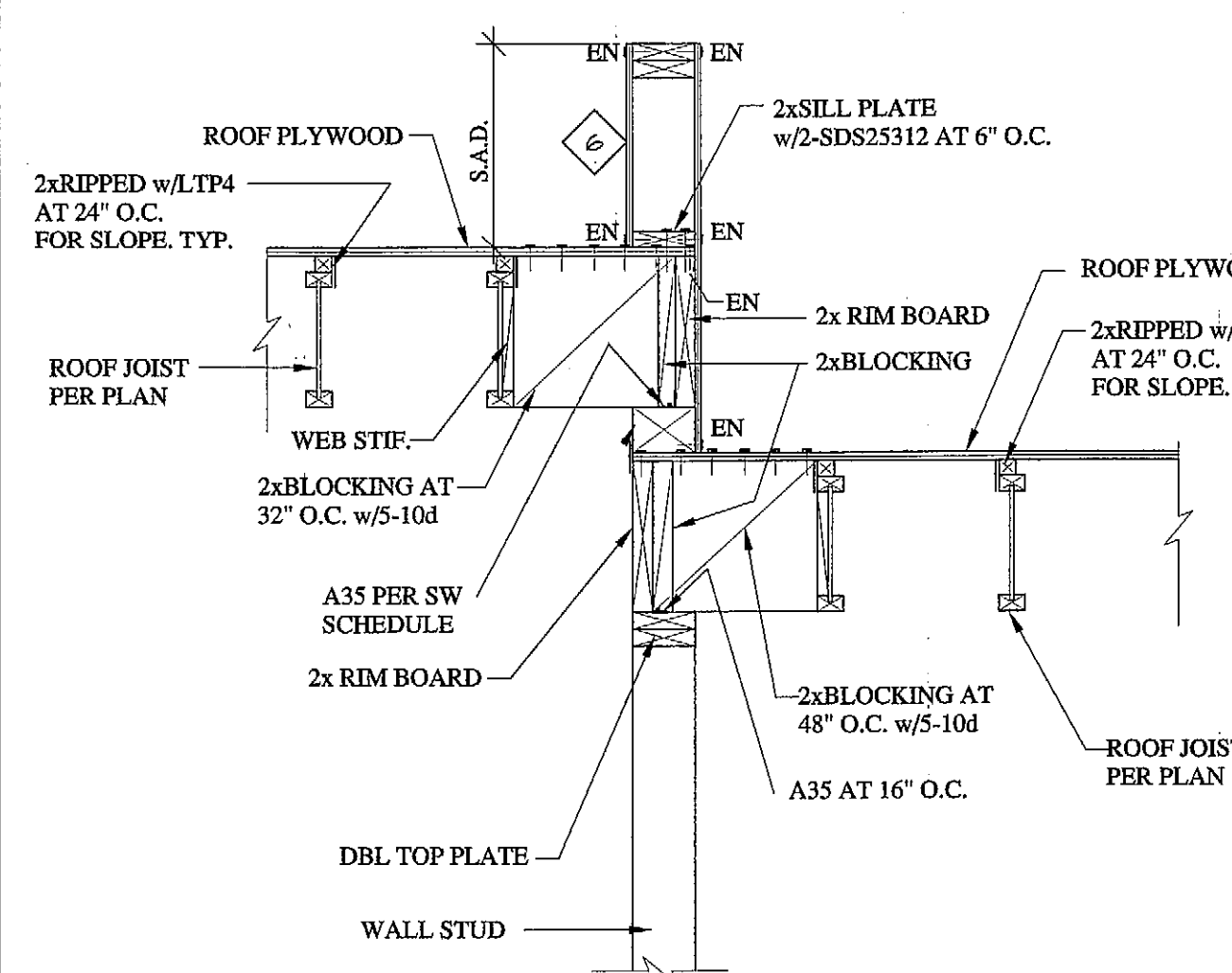
ROOF JOIST PARA. TO EXTERIOR WALL | 2



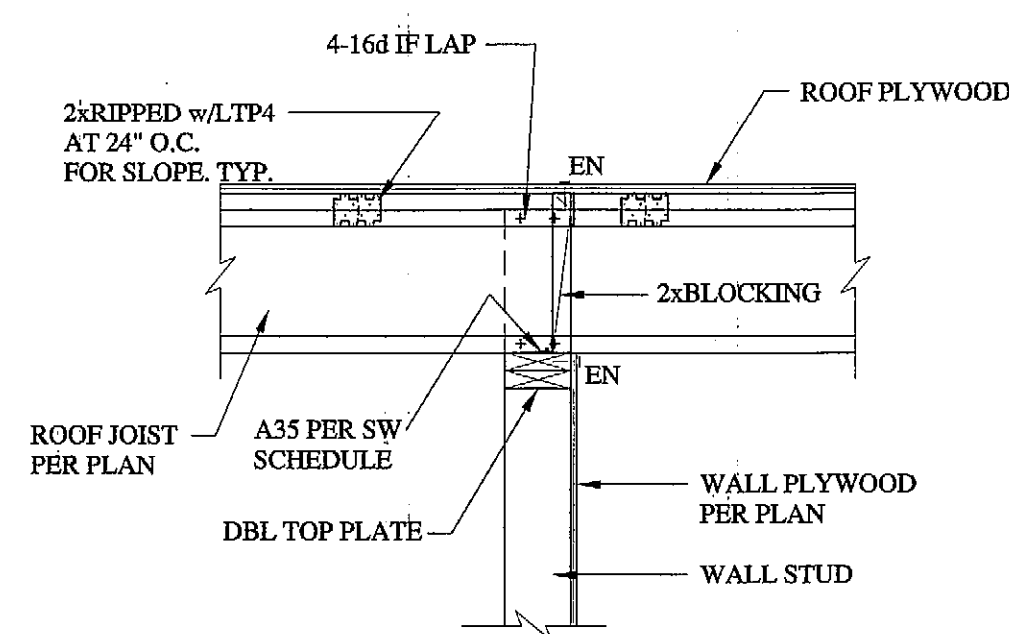
CANTILEVERED FLOOR | 12



ROOF JOIST AT INTERIOR WALL | 9



ROOF JOIST PARA. TO EXTERIOR WALL | 6



ROOF JOIST PERP. TO INTERIOR WALL | 3

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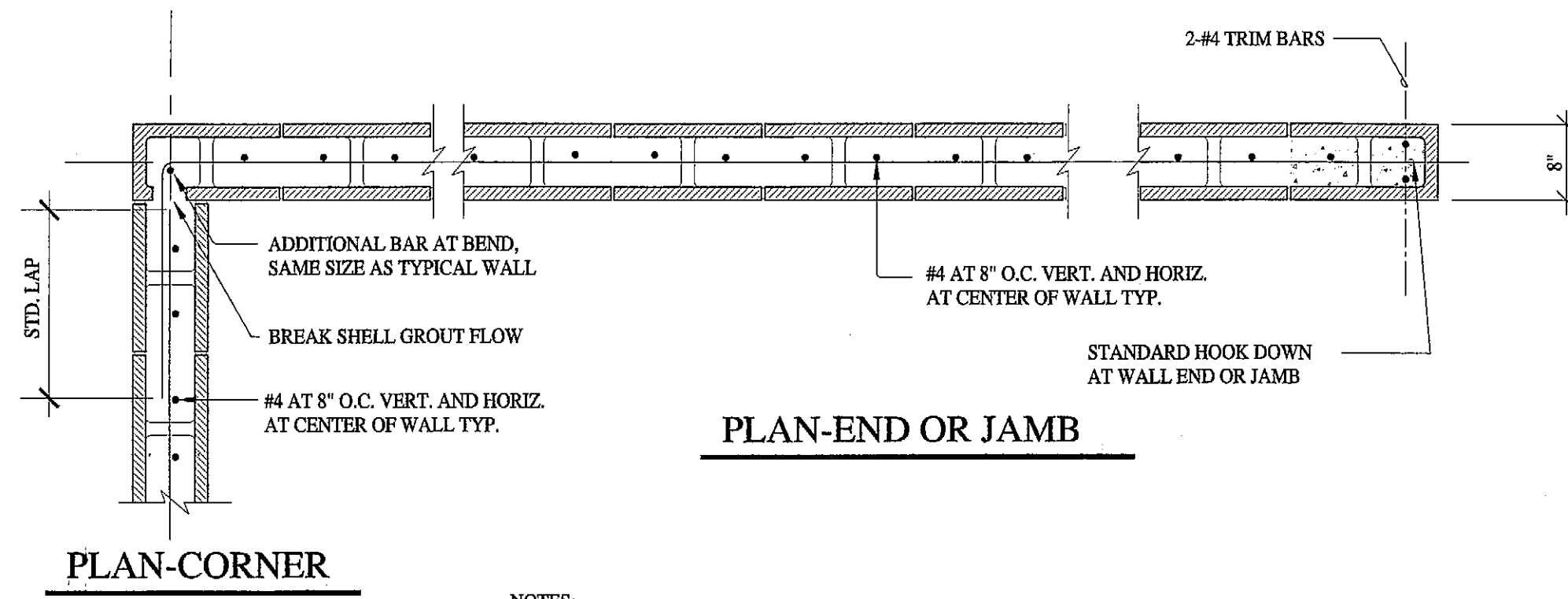
APPROVED  
BY: [Signature]  
DATE: 3/28/2014  
PROJECT: NEW MIXED-USE BUILDING  
35th St. & School St.  
OAKLAND, CA  
SHEET: S3.4  
SCALE: AS SHOWN  
NOT TO BE USED FOR CONSTRUCTION WITHOUT THE ORIGINAL SET OF PLANS  
IF ANY CHANGES ARE MADE TO THE PLANS, THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED.

No. \_\_\_\_\_ Date \_\_\_\_\_

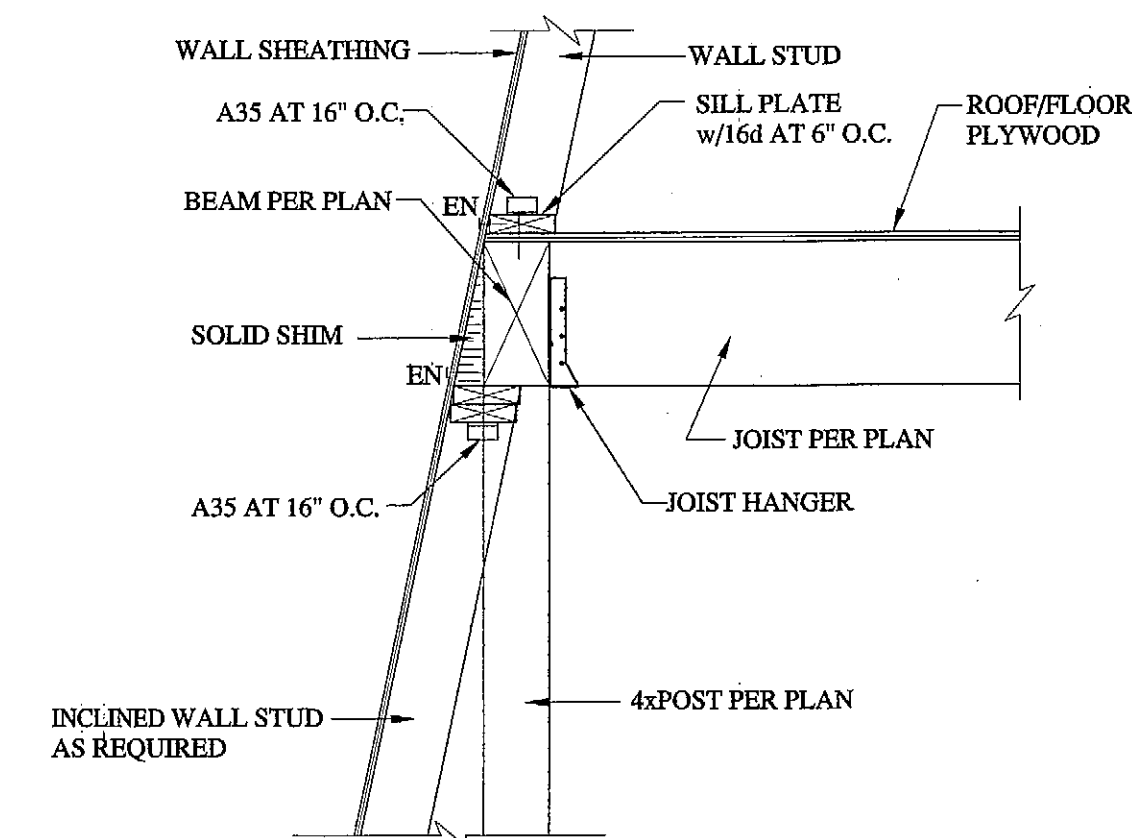
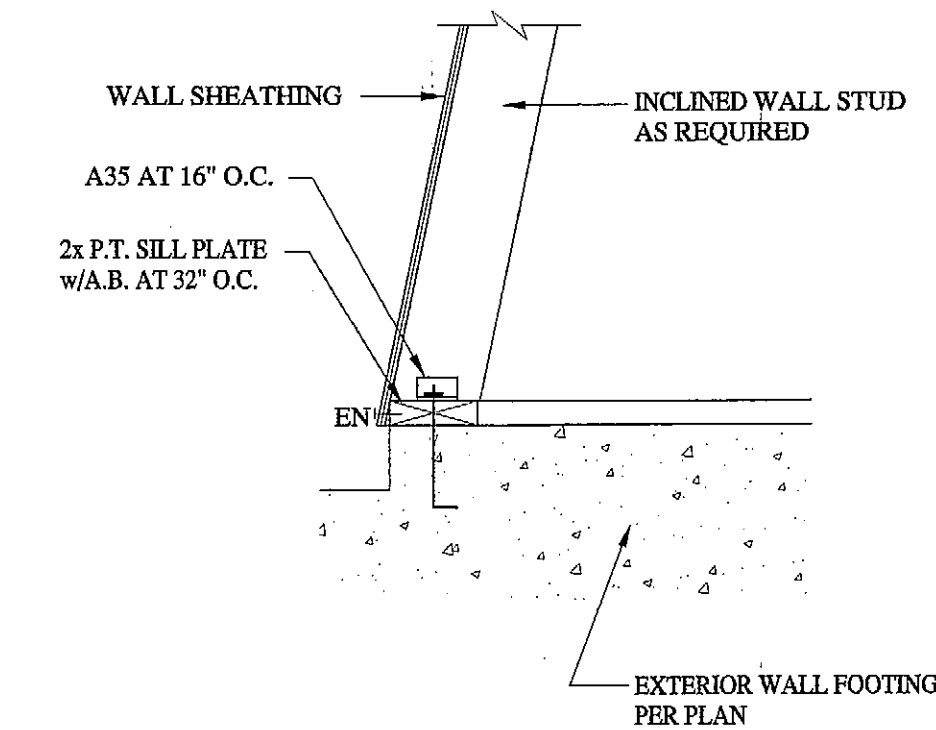
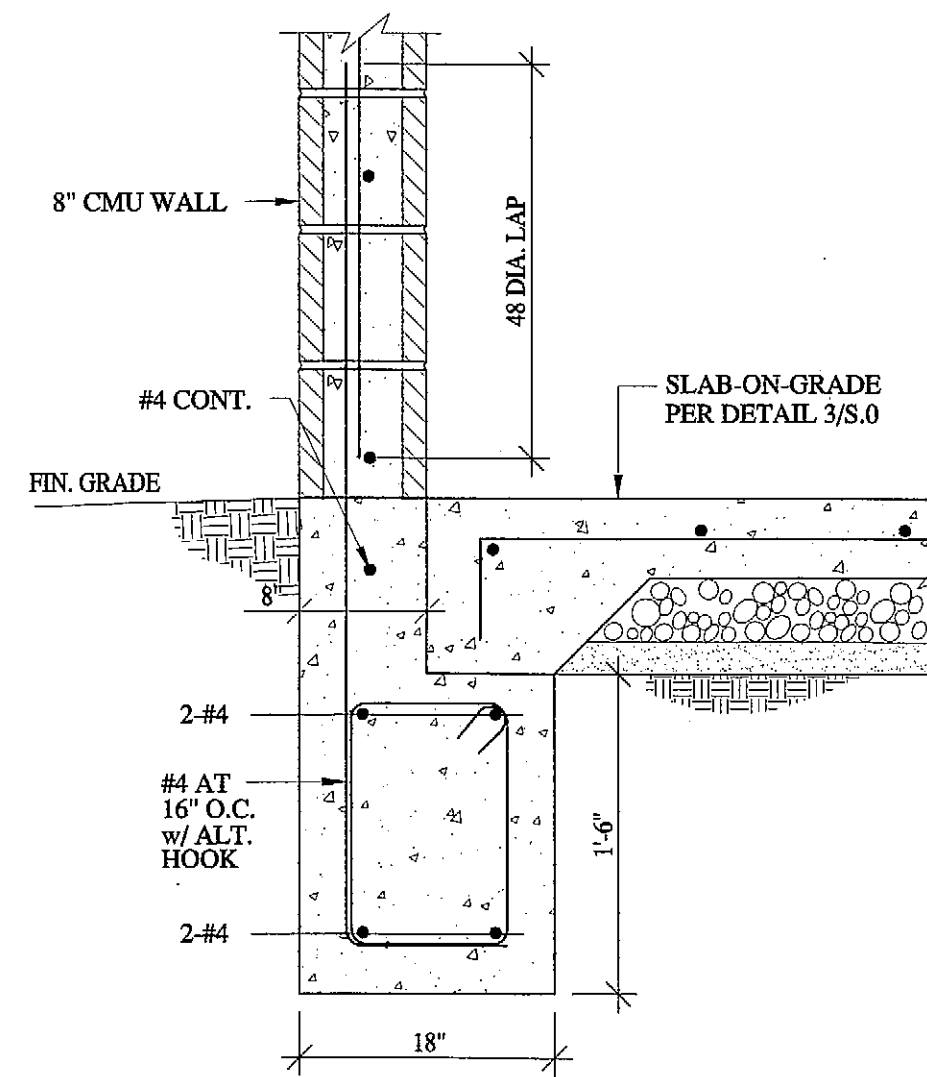
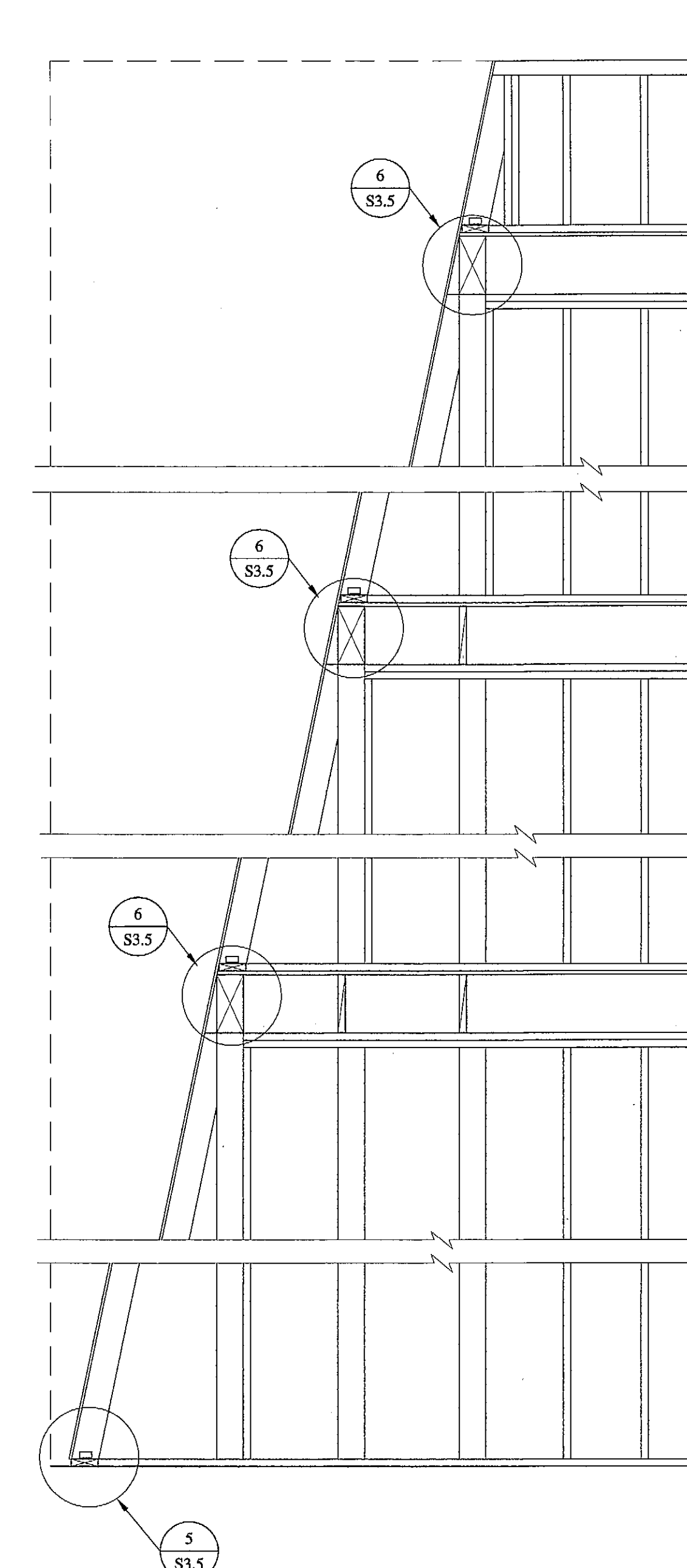
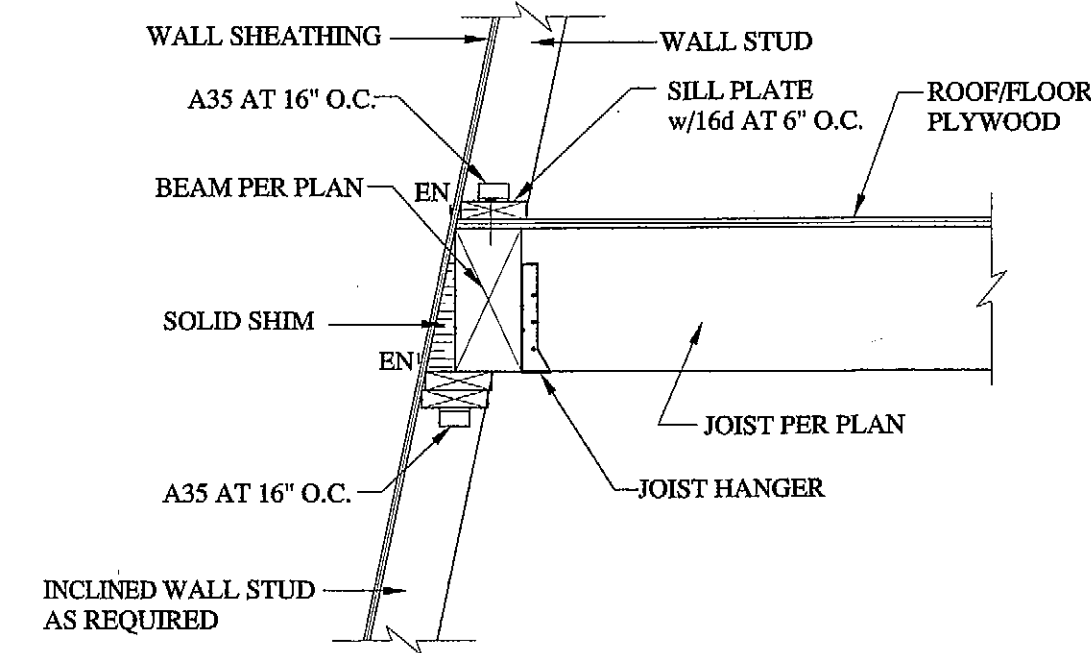
Project Name and Address  
**NEW MIXED-USE BUILDING**  
35th St. & School St.  
Oakland, CA

Sheet Title  
**FRAMING DETAILS**

Project: **GE2382** Sheet \_\_\_\_\_  
Date: **3/28/2014** S3.4  
Scale: \_\_\_\_\_



- NOTES:**
1. UNITS: MEDIUMWEIGHT BLOCKS CONFORMING TO ASTM C90, GRADE N, TYPE I, UNIT STRENGTH = 1900 psi
  2. BARS: ASTM A615, GRADE 60. ALL WALLS TO BE REINFORCED.
  3. WELDED BARS: ASTM A705, GRADE 60
  4. MORTAR: ASTM C270, TYPE S, f<sub>c</sub>' = 1900 psi
  5. GROUT: COMPRESSIVE STRENGTH OF 1900 PSI AT 28 DAYS. ALL CELLS SHALL BE FULLY GROUTED.
  6. REINFORCING STEEL: ASTM A615 GRADE 60
  7. ALL CELLS SHALL BE GROUTED SOLID.
  8. PROVIDE ADDITIONAL #4 VERTICAL BAR AT CORNERS AND WALL INTERSECTIONS.
  9. HORIZ. REINF. AT WALL ENDS OR WHICH DO NOT CONTINUE INTO INTERSECTING WALLS SHALL TERMINATE WITH STD. 90° HOOK TURNED DOWN
  10. STANDARD LAP SHALL BE 48 BAR DIAMETERS.



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NOT CHECKED  
NOT MEAS. PLUMBS  
NOT CHECKED

TYP. CMU WALL REINF. 7

INCLINED WALL FRAMING 4

CMU WALL FOUNDATION 8

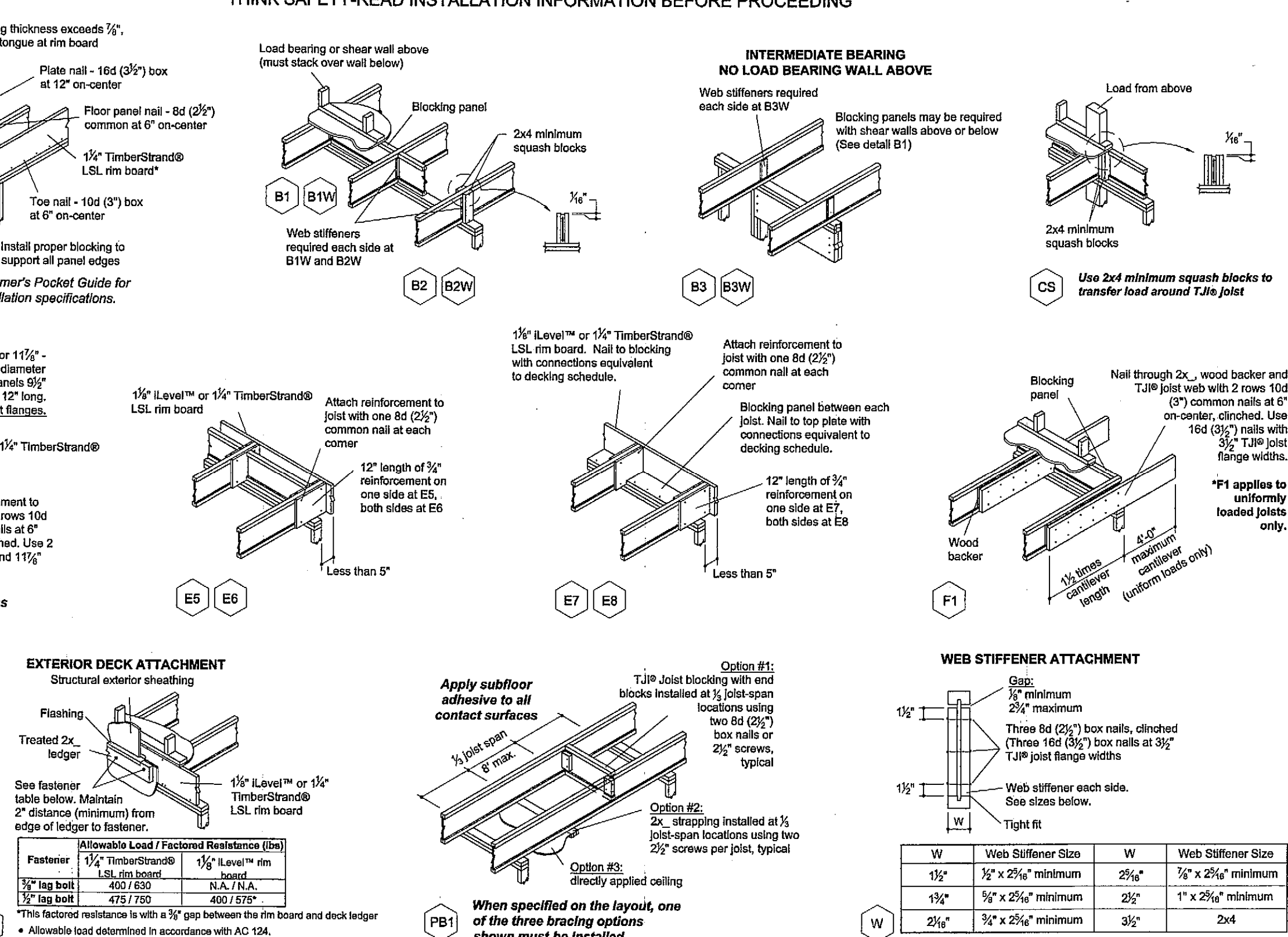
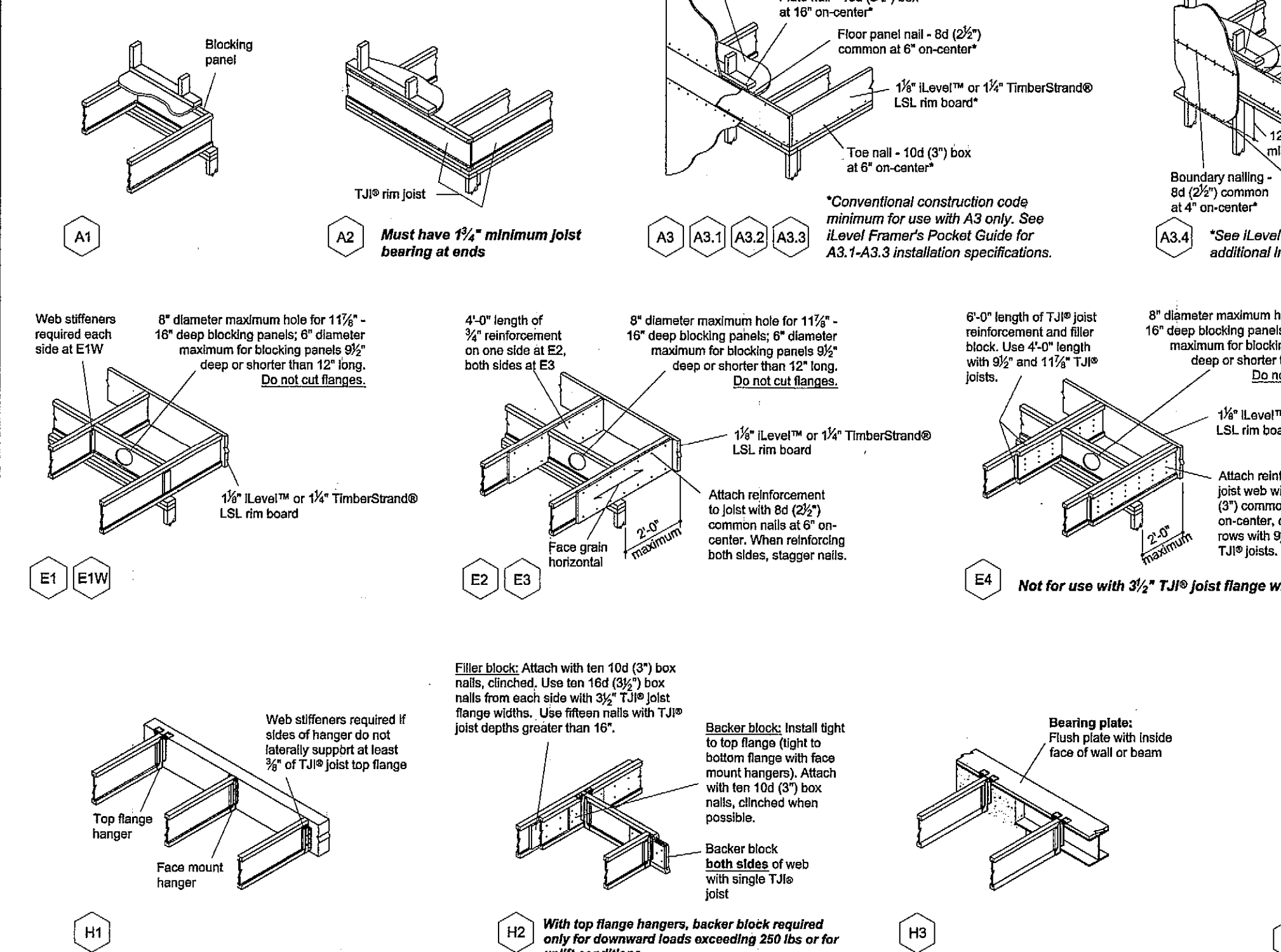
INCLINED WALL AT CONCRETE FOOTING 5

INCLINED WALL SCHEMATIC 2

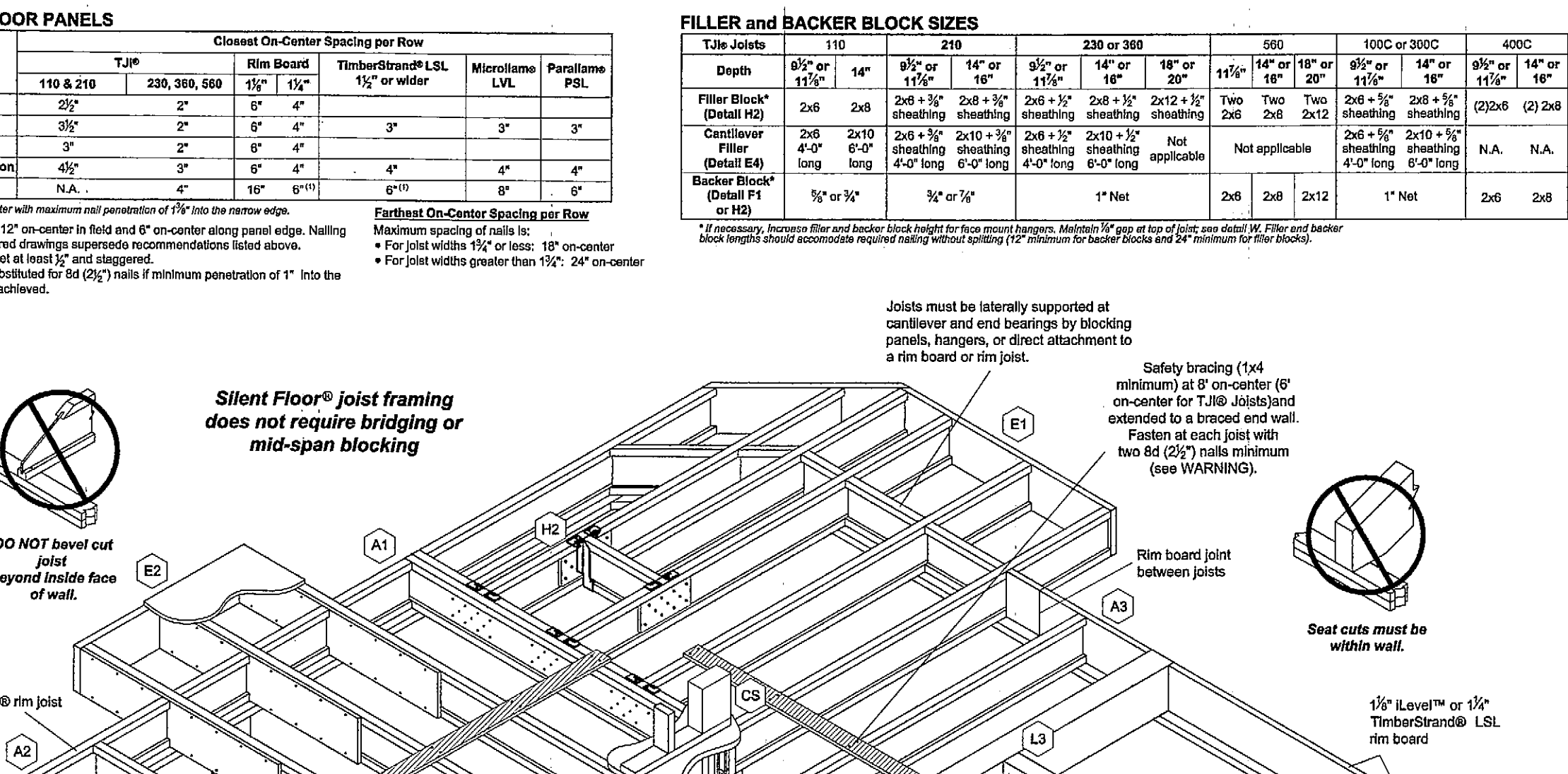
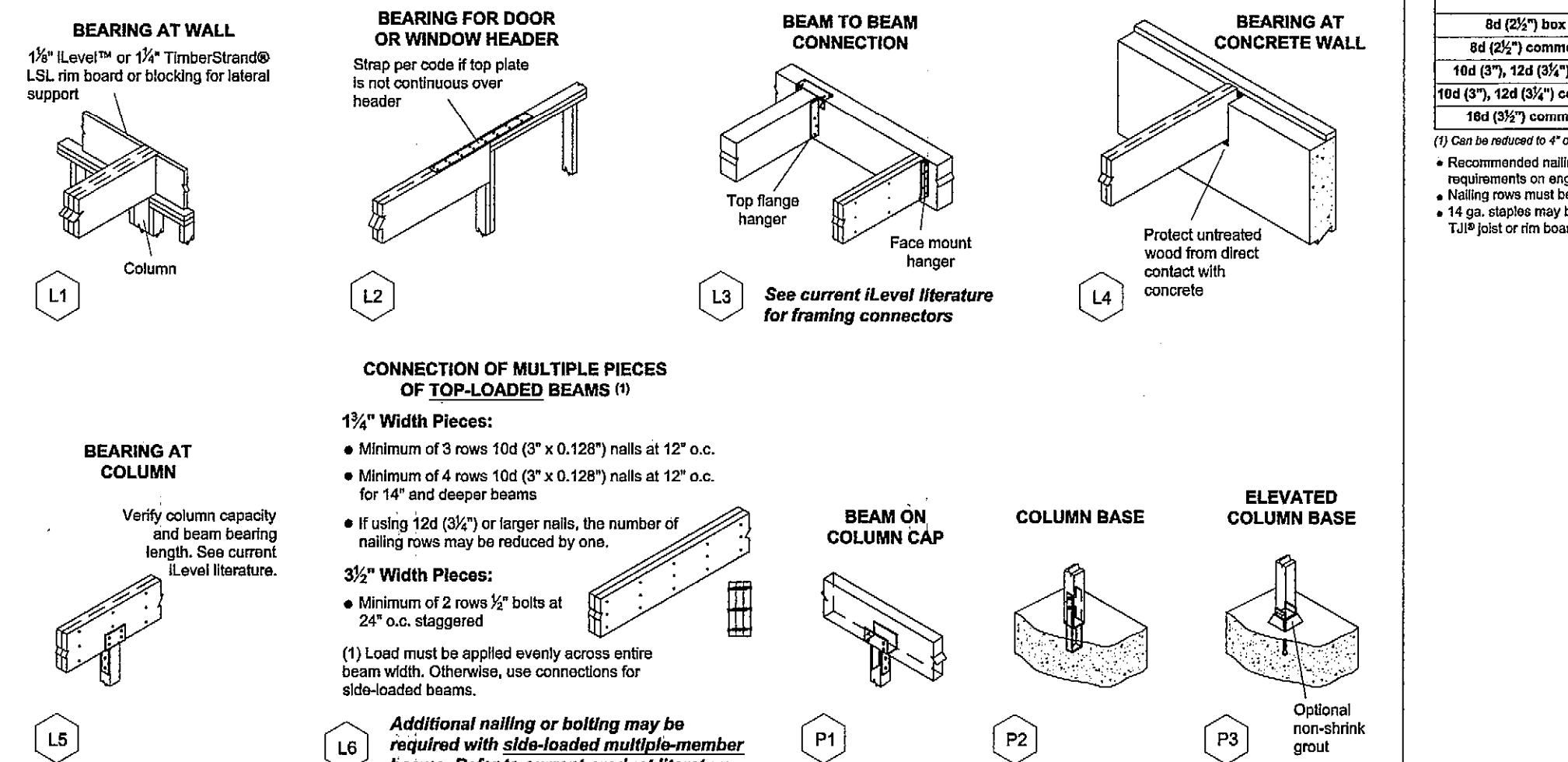
INCLINED WALL FRAMING 6

No.	Date
Project Name and Address	
NEW MIXED-USE BUILDING 35th St. & School St. Oakland, CA	
Sheet Title	
FRAMING DETAILS	
Project	Sheet
GE2382	S3.5
Date	
3/28/2014	
Scale	

### JOIST DETAILS



### BEAM and COLUMN DETAILS



### ALLOWABLE HOLES - T&B Joists

**Table A - End Support**  
**Minimum distance from edge of hole to inside face of nearest end support**  
**Table B - Intermediate or Cantilever Support**  
**Minimum distance from edge of hole to inside face of nearest intermediate or cantilever support**

Tables showing allowable hole sizes for different joist depths and hole types (Round, Square, Rectangular).

## GTC GeoTrinity Consultants, Inc.

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### ALLOWABLE HOLES - Headers and Beams

**1.55E TimberStrand® LSL Headers and Beams**

Tables showing allowable hole sizes for headers and beams, including general notes and other Level™ Trus Joists Headers and Beams.

### WARNING

**WARNING**  
 Joists are unstable until braced laterally  
 Lack of proper bracing during construction can result in serious accidents. Observe the following guidelines:

1. All blocking, hangers, rim boards and on-joists at the end supports of the T&B joists must be completely installed and properly nailed.
2. Establish a permanent bracing system to the end of each joist at the end of the bay or braced wall.
3. Safety bracing of 1x4 (minimum) must be nailed to the end wall or braced area and to each joist.
4. Check bracing to be properly nailed to each T&B joist before additional loads can be placed on the system.
5. Brack of cantilevers require safety bracing on both the top and bottom flanges.
6. T&B joist flanges must remain straight within 1/2" from bay alignment.

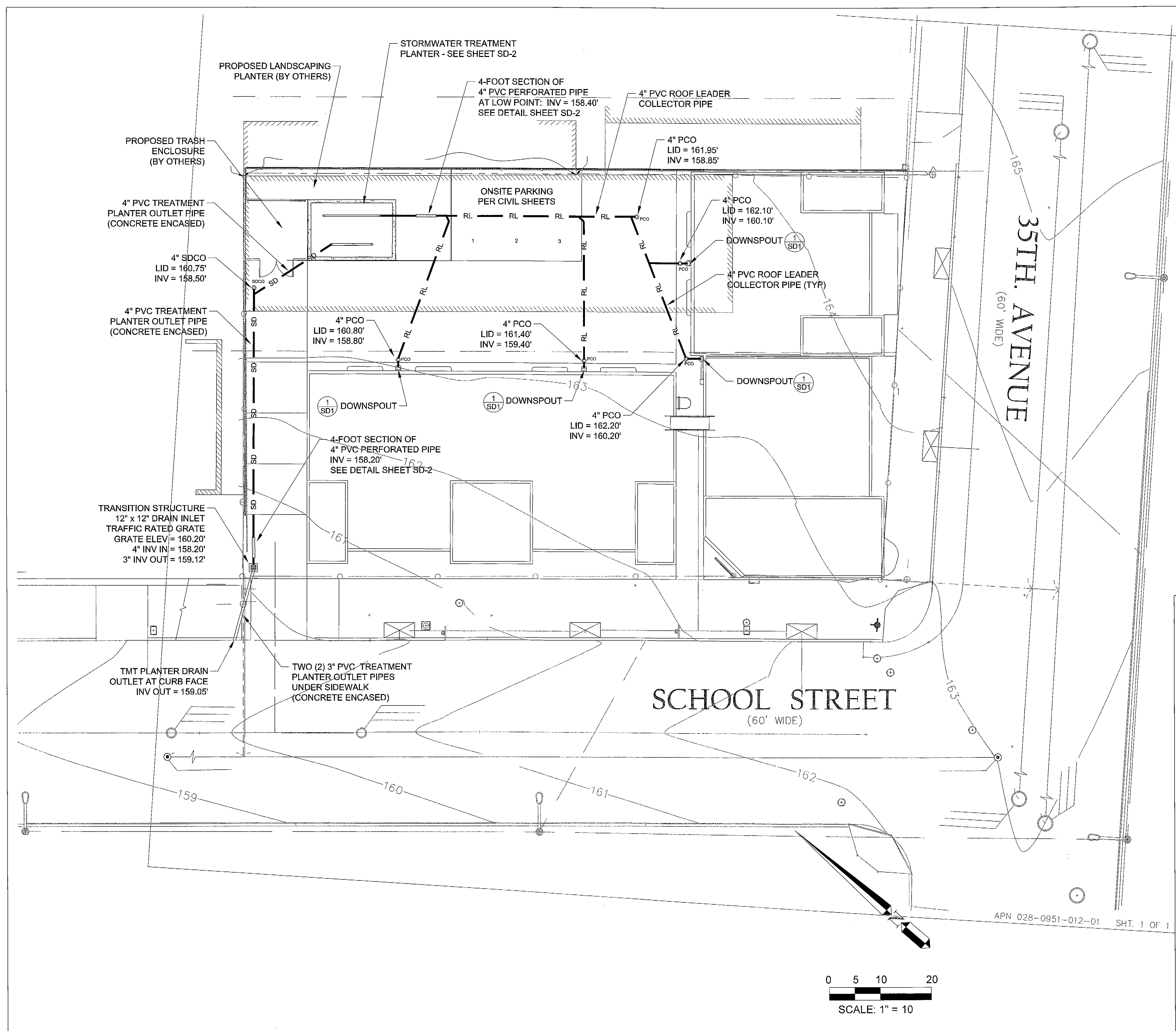
This sheet is intended as a supplement to the iLevel™ Framers's Pocket Guide, which should be referenced for additional information.

Project Name and Address  
**NEW MIXED-USE BUILDING**  
 35th St. & School St.  
 Oakland, CA

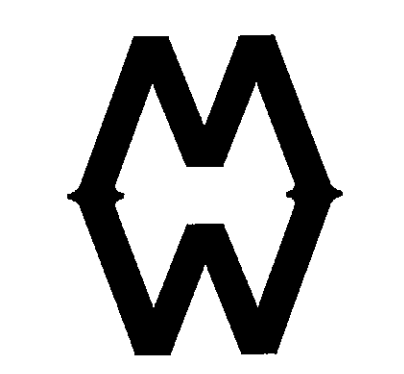
Sheet Title  
**TYPICAL I JOIST INSTALLATION DETAILS**

Project **GE2382** Sheet  
 Date **3/28/2014** **S4.1**  
 Scale

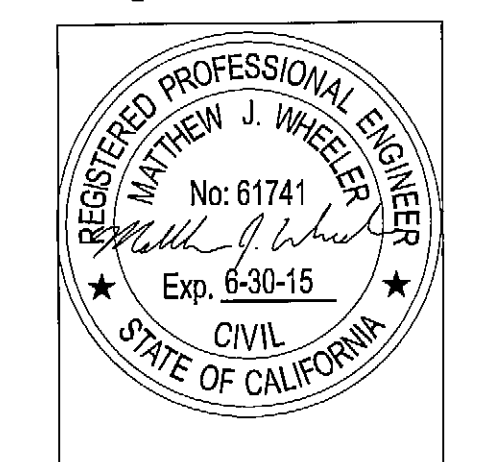
FOR REDUCED PLANS  
ORIGINAL SCALE IS IN INCHES



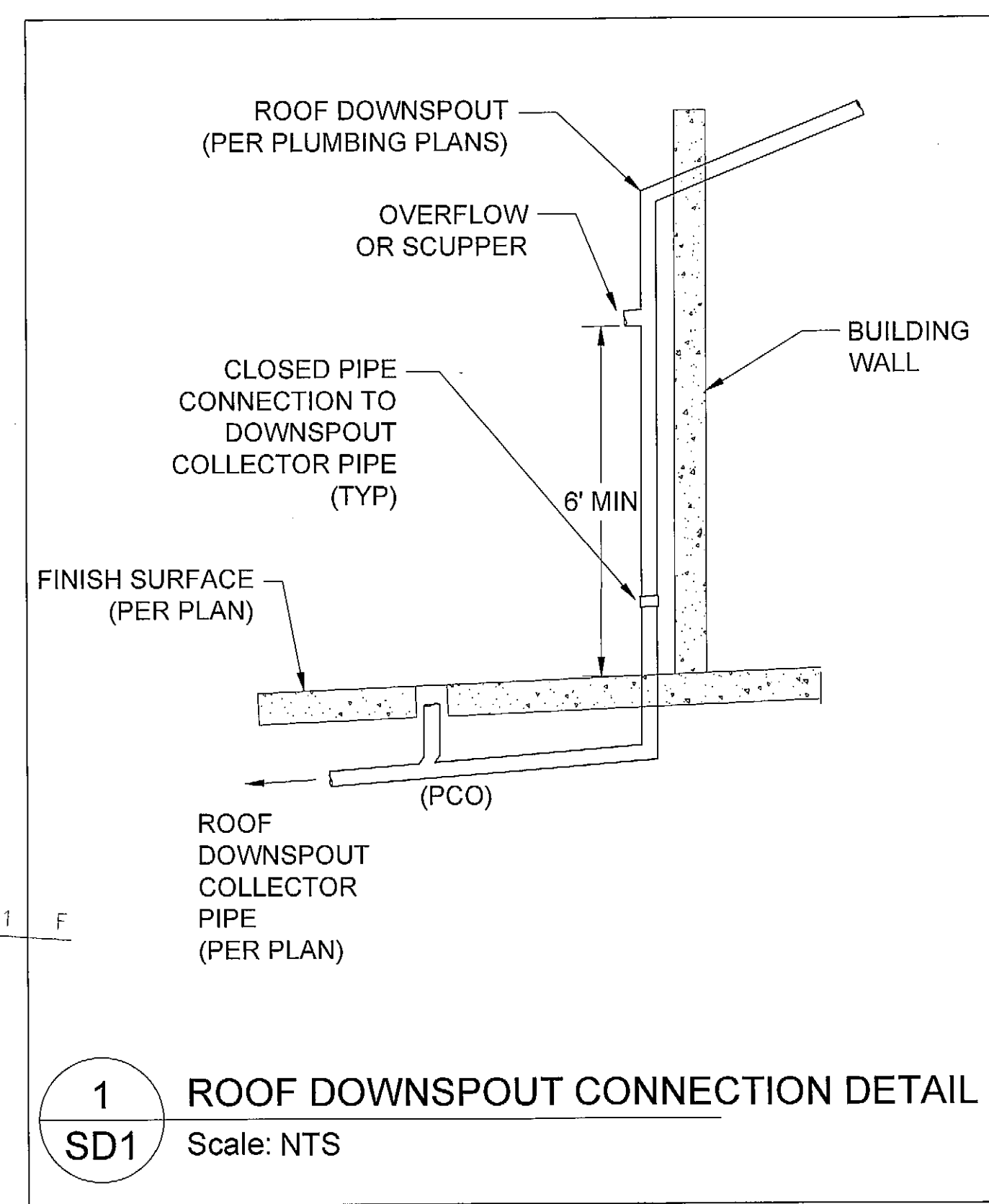
- ABBREVIATIONS**
- CMU = CONCRETE MASONRY UNIT
  - CO = CLEANOUT
  - CONC = CONCRETE
  - DI = DRAIN INLET
  - ELEV = ELEVATION
  - FL = FLOWLINE
  - FS = FINISH SURFACE (ELEVATION)
  - INV = INVERT
  - PCO = PRESSURE CLEANOUT
  - PVC = POLYVINYL CHLORIDE (PIPE)
  - RL = ROOF LEADER
  - SD = STORM DRAIN
  - SDCO = STORM DRAIN CLEANOUT
  - SS = SANITARY SEWER
  - TC = TOP OF CURB
  - TG = TOP OF GRATE



**Matt Wheeler Engineering**  
 WATER  
 WASTEWATER  
 STORMWATER  
 GENERAL CIVIL ENGINEERING  
 CONSTRUCTION MANAGEMENT  
 DISTRICT ENGINEERING  
 4660 NATOMAS BLVD., SUITE 120-144  
 SACRAMENTO, CALIFORNIA 95835  
 T 916-640-9148 F 916-668-5786  
 MattW@mwengineering.com



DATE SIGNED  
 These plans and specifications, and the plans and details incorporated herein, are instruments of service prepared for the construction of work shown herein and shall not be used in whole or in part for any other project without written authority of Matt Wheeler Engineering, Inc.



**STORMWATER TREATMENT SYSTEM - PLAN**  
 3101 35th Avenue  
 Oakland, CA 94619

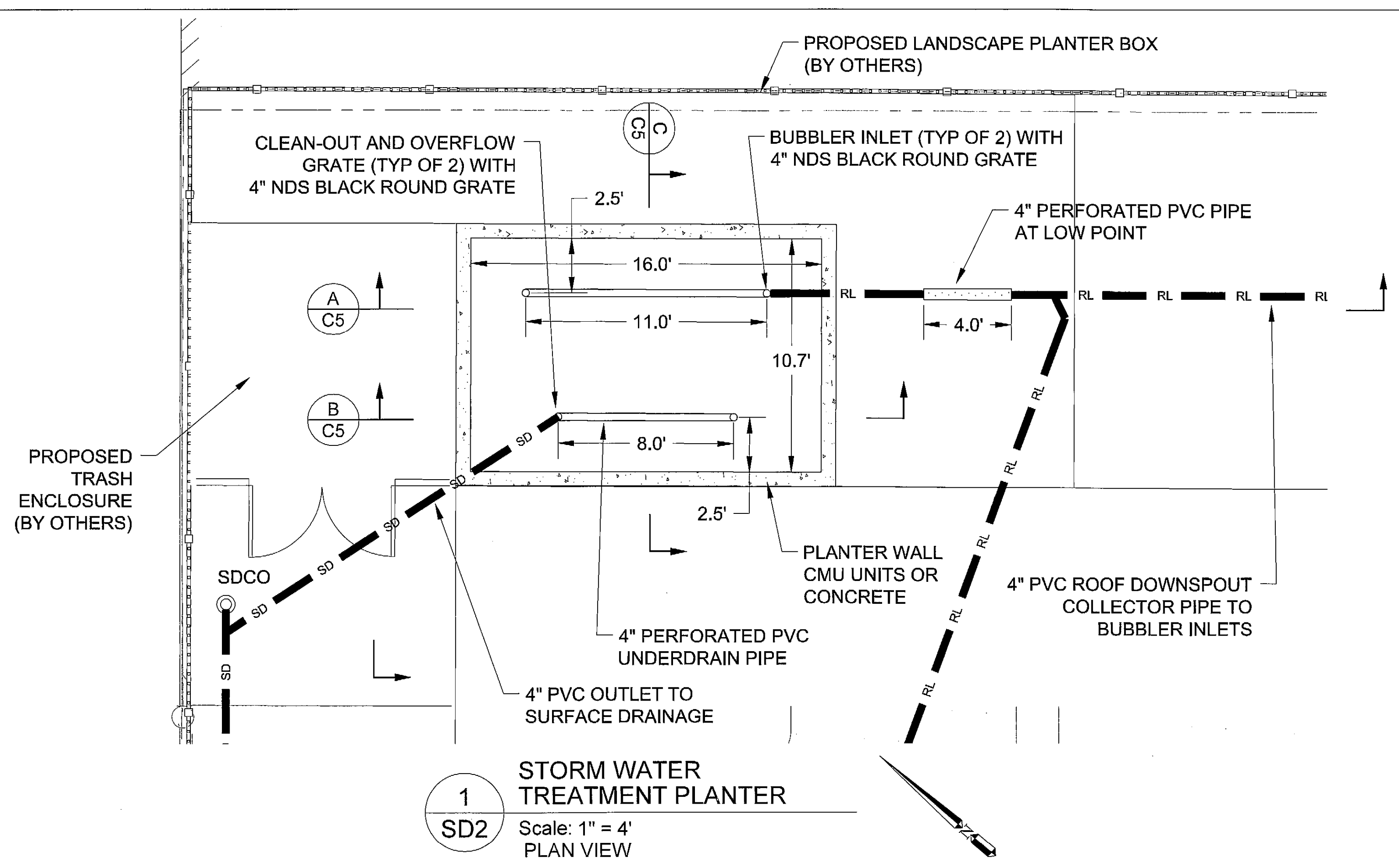
JOB # 032-01  
 DESIGNER: MJW  
 DRAWN BY: MJW  
 DATE: 12-11-13  
 DRAWING NO. SD-1  
 1 OF 2 SHEETS

0 5 10 20  
 SCALE: 1" = 10'

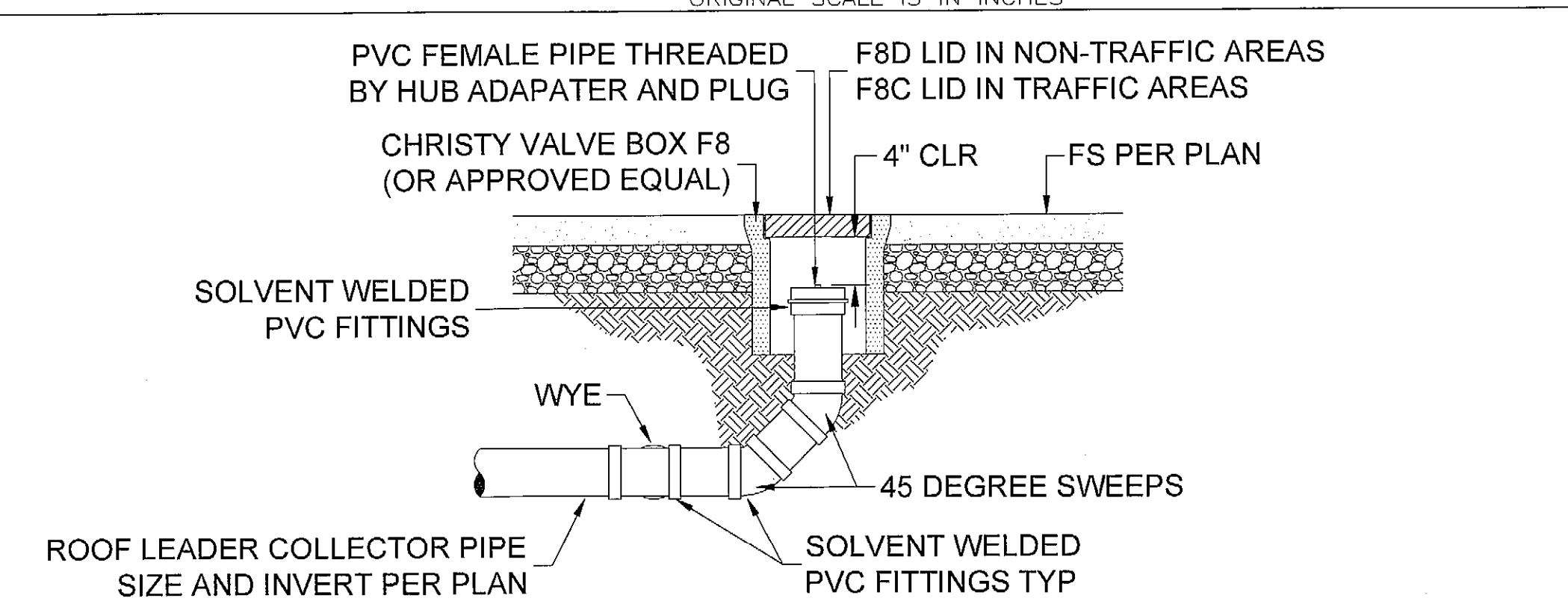
1 ROOF DOWNSPOUT CONNECTION DETAIL  
 SD1 Scale: NTS



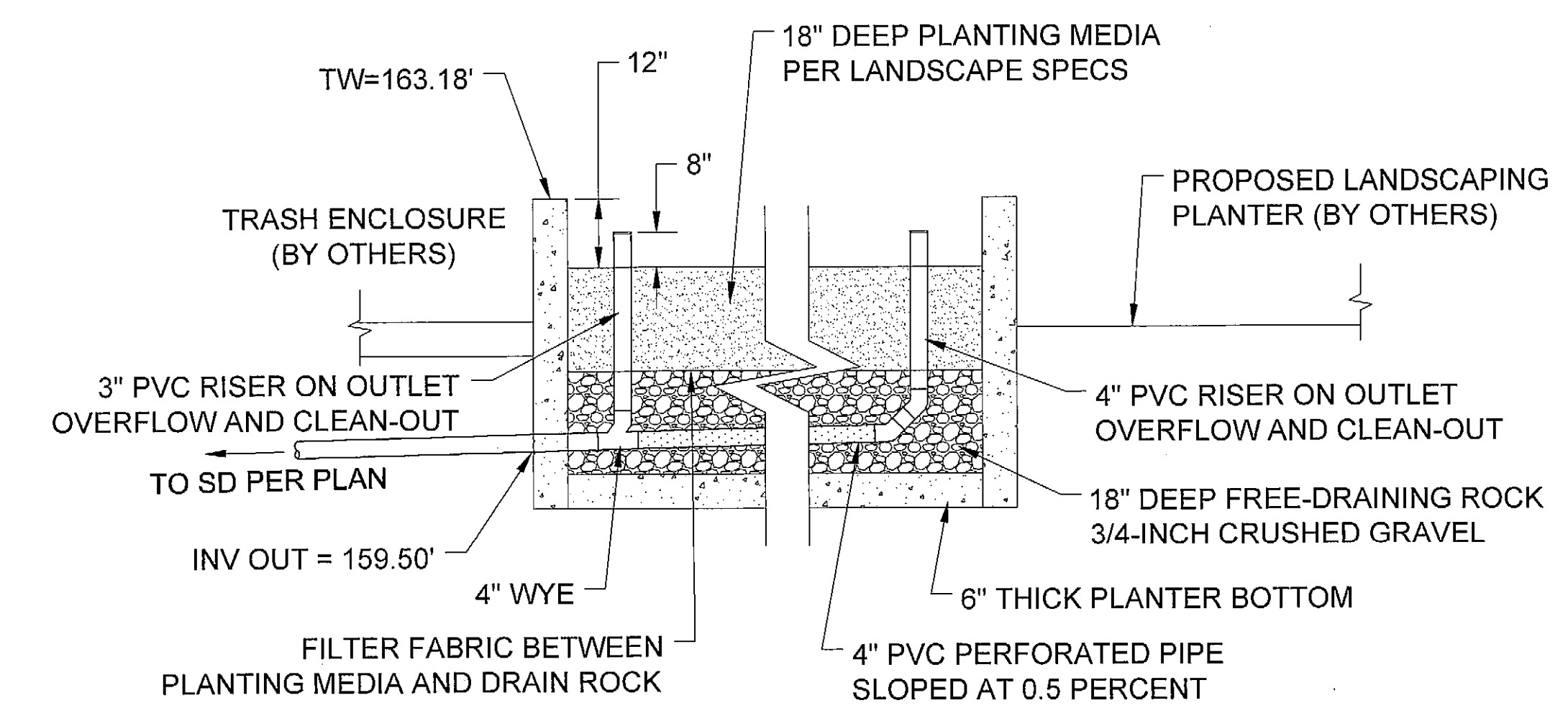
FOR REDUCED PLANS  
ORIGINAL SCALE IS IN INCHES



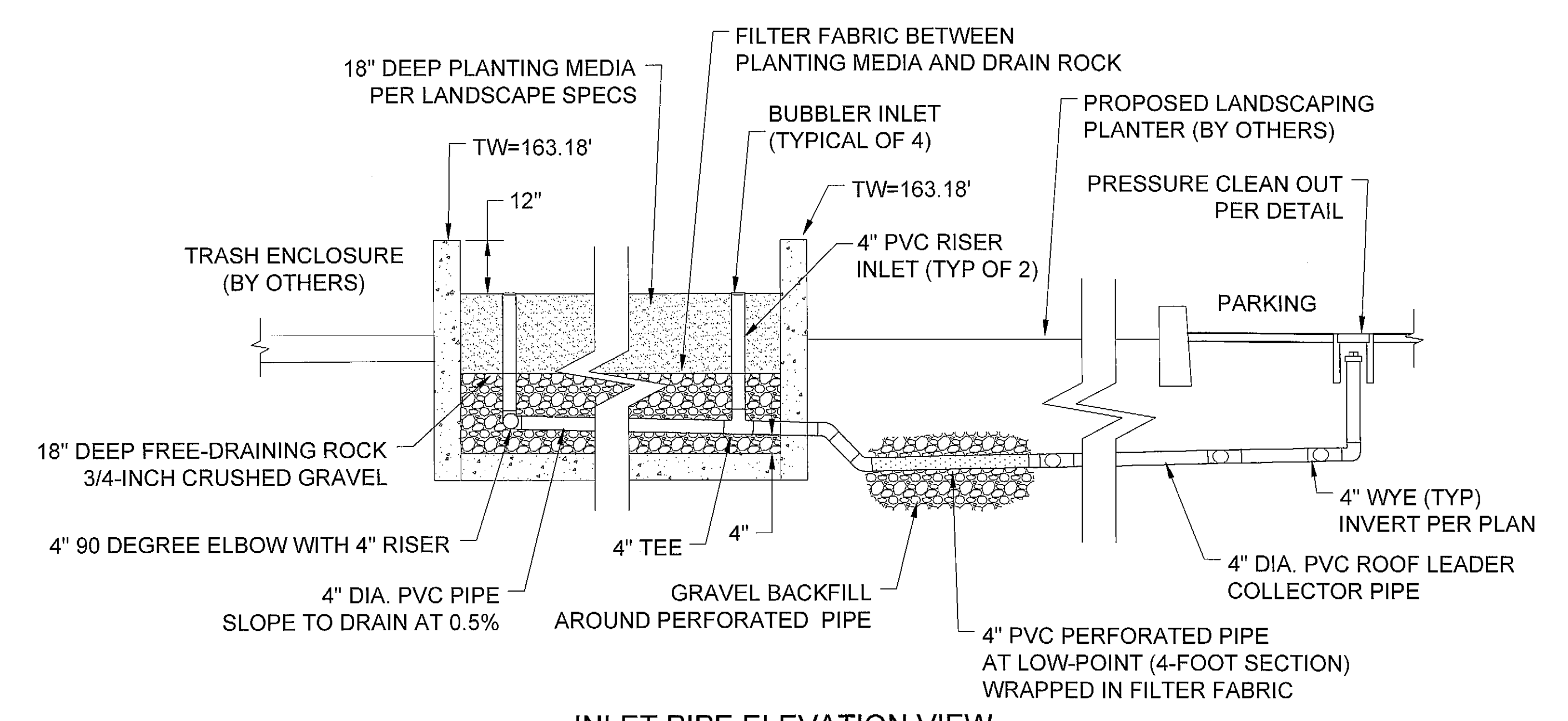
**1**  
**SD2**  
Scale: 1" = 4'  
PLAN VIEW



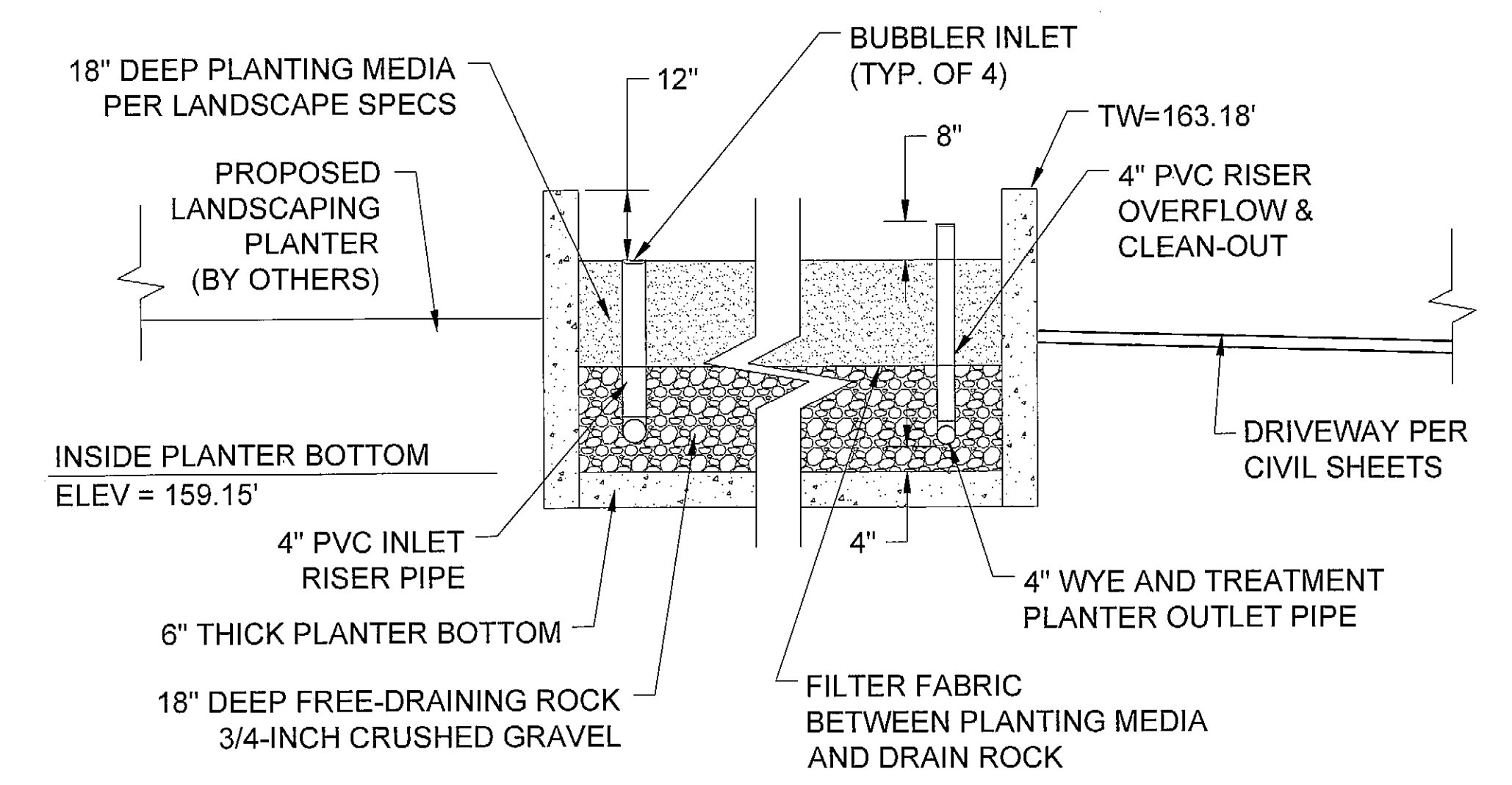
**2**  
**SD2**  
Scale: NTS



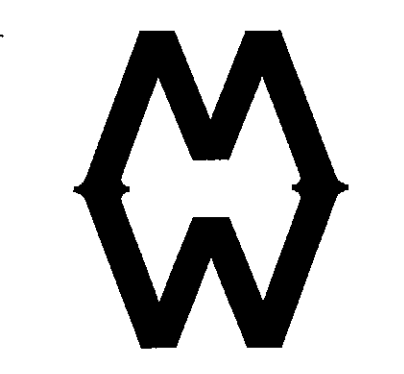
**B**  
**SD2**  
Scale: NTS  
LOOKING NORTHEAST



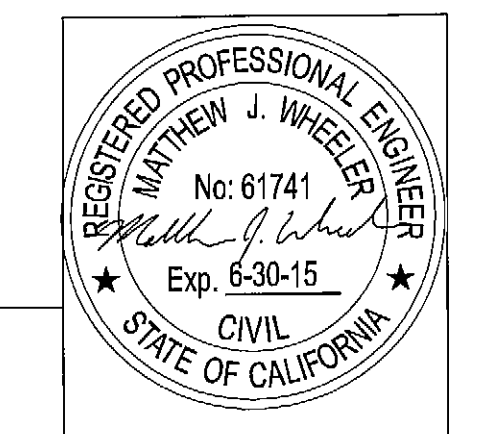
**A**  
**SD2**  
Scale: NTS  
LOOKING NORTHEAST



**C**  
**SD2**  
Scale: NTS  
LOOKING SOUTHEAST



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DATE SIGNED  
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**STORMWATER TREATMENT SYSTEM - DETAILS**  
3101 35th Avenue  
Oakland, CA 94619

JOB #: 032-01  
DESIGNER: MJW  
DRAWN BY: MJW  
DATE: 12-16-13  
DRAWING NO.  
**SD-2**  
2 OF 2 SHEETS