DESIGN STANDARDS

Section VIII.
Required Typical/Details

Revised February 15, 2010

Yale University – School Of Medicine
Facilities Construction & Renovation
Lab Bench & Shelving Detail (Change # 12, 9/1/2005)
Drain Flashing/Exterior Utility Railing & Leaders Details
Roof Drain Detail at Concrete Deck
Base Flashing at Expansion Joint
Retaining Wall Flashing Detail
Concrete Curb Flashing
Sleeper Flashing/Cover
Control Joint
Vent Shaft
Flashing Detail at Balcony Post
Multiple Penetrations
Termination Bar
Typical New Reglet Detail
Ladder
Guardrail
Flashing at Door to Roof (IRMA)
Gravel Stop Detail (IRMA)
Coping and Flashing Detail
Louver Flashing Detail (IRMA)
Glazed Wood Laboratory Doors
(change # 19,7/17/2006)
Sign Lettering Spacing Standard Sign Types A and B (Change # 48, 8/10/09)
Sign Locations (Change #48, 8/10/09)
Required Sign Schedule (Example) (Change #48, 8/10/09)
Signs for Emergency Showers
Signs for Emergency Eyewashes
Coffee Cubbies (change #45 6/30/09)
Lab Bench Carrel Detail

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3/4" LAMINATE SHELF ENCLOSURE UNDER 11 1/8" X 6" X 21/2" ADJ. LAM SHELVES.
36" KUBEL ADJ. STANDARDS BEHIND THE TOP FLUSH SIDE SPLASH @ LAM BENCH.

LAM CARREL COUNTER w/ 1" PINE PLYWOOD CORE @ BACK SHEET.

MATCH ADJACENT LAB BENCH WIDTH.
AT SUBSTANDARD MIDDLE WIDTH USE 48" CARREL WIDTH.

ALL TRAVEL CLOSETS, DOUBLE PANEL WHEEL FILING REGO BETWEEN 12" LAM CLOSETS.

ALL DRAWER BASE UNIT, PROVIDE CYLINDER LOCKS EACH DRAWER WHERE CARREL DRAWERS ARE IN HIGH BENCH ADJACENT PROVIDE LOCKS FOR 2 LOWER DRAWERS.

DRAWER BASE UNIT & MILL END PANEL (@ 6' CARREL UNIT).
REMOVABLE FACE PLATE ACCESS.
YCT CONTINUOUS UNDER CASEWORK.

LAB BENCH CARREL DETAIL 3/8" I'

SEE SHEET 1 FOR BENCH/CARREL ELEVATION
REV. 0.4.01 CHANGE #28

SHEET Z OF 3
7/1/73

Top of the Document
Lab Bench & Shelving Detail (Change # 12, 9/1/2005)

LAB BENCH & SHELVING DETAILS (AT WALLS) 3/8" O.C.

* AT SUBSTANDARD AISLE WIDTHS < 54" USE 24" MIN. BENCH & CART (W) WIDTHS

Sheet 3 of 3

REV. 8.4.01 CHANGE # 25
7/7/05
SWIVEL FAUCET WITH SINGLE HOT AND COLD WATER W/WRIST ACTION MIXING PADDE

1/2" PLEXIGLASS SPLASH GUARD

WOOD APRON

10" DEEP X 18" WIDE ROLL OUT OPEN FRONT CASework CABINET

KNEE SPACE

ACCESSIBLE SINK ELEVATION

DRAWING NO. SK-4

DATE: 11-17-00
JOB NO. 8/4/01
SCALE: 3/4"=1'-0"
(Check No. 991100)

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STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC SAFETY
DIVISION OF FIRE, EMERGENCY & BUILDING SERVICES
OFFICE OF THE STATE BUILDING INSPECTOR

February 1, 2001

M. Virginia Chapman, AIA, Director
Yale School of Medicine
Facilities Development & Operations
37 College Street
New Haven, CT 06510

RE: W-111-00 Yale School of Medicine
333 Cedar Street
New Haven, Connecticut

Dear Ms. Chapman:

I have reviewed the above-referenced Request for Handicap Waiver from the provisions of Section 1108.12, Laboratory Stations, of the BOCA National Building Code/1996 portion of the 1999 State Building Code, together with James D. McGaughney, Executive Director of the Office of Protection and Advocacy for Persons with Disabilities. (Mr. McGaughney's letter is enclosed).

It is our joint decision to approve this handicap waiver, as requested, provided that the alternative, as outlined in the November 22, 2000 proposal, including the drawings, is implemented. This waiver only applies to employee areas and only to the type of laboratory stations described in the application (i.e., deep laboratory sinks, fume hoods). This decision is based on the fact that full compliance with the State Building Code has been determined to be technically infeasible.

If you have any questions, please contact Daniel Veronick, of my office, at (860) 685-8310.

Regards,

Christopher R. Laux, AIA
State Building Inspector

CRL:DV:pm
Enclosure
cc: James McGaughney
    Andrew Rizzo, New Haven Building Official

Telephone (860) 685-8310
1111 Country Club Road, P.O. Box 2794
Middletown, CT 06457-9294
An Equal Opportunity Employer

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The following drawings are examples of roofing details that have been successfully implemented at the Yale School of Medicine. These examples are provided as a reference to the design professional who, as always, is responsible for ensuring that all roofing details are adequate and appropriate for the particular project situation. Proposed roofing details will be reviewed and commented on by YSM facilities managers during regular end-of-phase document reviews.
Drain Flashing/Exterior Utility Railing & Leaders Details

- 2 3/4" x 2 3/4" x 8" S.S. MESH BASKET WIRE TO GRAVEL GUARD
- ROOF DRAIN - ANCON RD100 OR EO.
- 4" LEAD - 30" x 30"
- FELT STRIPPING
- 3" x 3" ALUMINUM GRAVEL GUARD
- FELT STRIPPING
- 4 PLY C.T.B. MEMBRANE
- 1/2" FIBERBOARD INSULATION
- 2.5" ISOYANURATE INSULATION
- 18" TAPERED EDGE STRIP
- 1.5" FIBERBOARD INSULATION
- EXISTING METAL DECK

NOTES:
1. RESEAT DRAIN TO NEW ELEVATION
2. SET GRAVEL IN MASTIC INSIDE GRAVEL GUARD

1 DRAIN FLASHING / SUMP AT METAL DECK
Base Flashing at Expansion Joint
Provide new reglet, see detail #12

20 oz. copper counterflashing

Nail-ins at 12" OC. max.

20 oz. copper two piece expansion flashing

New PT. 2x trimmed

20 oz. copper hookstrip nailed 3" OC.

Two ply composition base flashing and one ply reinforced flashing

New PT. 2x4's 16" OC.

4 ply membrane & aggregate

1/2" fiberboard - mopped

Fiber cant strip

Tapered isocyanurate insulation - mopped

Isocyanurate insulation between studs

3/4" PT plywood

Existing cementitious deck, primed

Face of plywood to match face of existing expansion joint trim 2x4's as required

3 Base flashing at expansion joint
Concrete Curb Flashing

16 OZ. COPPER
ROSH OVER ICE AND WATERSHED
16 OZ. COPPER CLEATS AT 1/2" OC
ROSH OVER #5 FELT
1x4 WOOD FURRING 24" OC. MAX.
VERTICALLY

20 OZ. COPPER STANDING SEAM PANELS
20 OZ. CONT. COPPER HOOKSTRIP SOLDER TO
COUNTER FLASHING
20 OZ. L.C.C. TWO PIECE COUNTER FLASHING
SECURED TO P.T. PLYWOOD 3" OC. WITH COPPER NAILS
RIVETS AT 1/2" OC.
1 x 1/8" TERMINATION BAR SEE DETAIL #11
SEAL OFF TOP OF FLASHING WITH FABRIC
AND FLASHING CEMENT
3/4" P.T. PLYWOOD FASTEN TO 1x4 WOOD FURRING
20 OZ. L.C.C. COPPER COUNTERFLASHING
TWO PLY COMPOSITION BASE FLASHING
AND ONE PLY REINFORCED FLASHING
4 PLY MEMBRANE & AGGREGATE
1/2" FIBERBOARD - MOPPED
TAPPERED ISOYCUANATE INSULATION - MOPPED
EXISTING CEMENTIOUS DECK

RETAINING WALL FLASHING DETAIL
EXISTING DUCTWORK (RE-USE)
CUT & RESOLDER CORNERS AS REQ'D.
TO ALLOW INSTALLATION OF FLASHING

MASTIC & FABRIC STRIPPING

TERM BAR (SEE DETAIL #11)

"NAIL-IN" FASTENER

CANT STRIP

REINFORCED BASE FLASHING

FIBERGLASS FELT FLASHING (2 PLIES)

4 PLY C.T.B. MEMBRANE

1/2" FIBERBOARD INSULATION

18" TAPERED EDGE STRIP

TAPERED ISOCYANurate INSULATION (THICKNESS VARIES)

EXISTING DECK / CURB CONSTRUCTION

CONCRETE CURB FLASHING
Flashing Detail at Balcony Post
STRIP IN TERMINATION BAR & TOP EDGE OF FLASHING W/ FABRIC & MASTIC
1"X1/8" ALUMN. TERMINATION BAR W/ PREPUNCHED HOLES 8" O.C.
S.S. SCREW FASTENER W/ WASHER 8" O.C.
COMPOSITION FLASHING
24" x 24" x 2" CONCRETE PAVERS

2" RIGID INSULATION BOARD WITH CEMENTITIOUS TOPPING
CUT TO FIT SLOPE

DRAINAGE BOARD WITH FILTER FABRIC
4 MIL POLY, TURN UP AT WALLS

REMOVE AND REHANG DOOR TO RECEIVE NEW FLASHING

REMOVE AND RESET BRICKS AT DOOR JAMBS TO EXTEND
NEW SS. SILL FLASHINGS

PROVIDE NEW ALUM. THRESHOLD AND WEATHER STRIPPING
TO MATCH EXISTING

NEW .018 SS. SILL FLASHING, EXTEND ONTO
EXISTING THRU WALL METAL FLASHING AND SOLDER JOINTS

TERMINATION BAR FASTEN 6" OC. AND SEAL OFF
WITH FABRIC AND FLASHING CEMENT. SEE DETAIL 3/R-6

1/2" PT PLYWOOD

3 PLY COMPOSITION BASE FLASHING

FIBER CANT STRIP

18" TAPERED EDGE STRIP

PRIME EXISTING DECK SURFACE

15 FLASHING AT DOOR TO ROOF (IRMA ROOF)
Coping and Flashing Detail
EXISTING WOOD BLOCKING

PROVIDE NEW SS. SCREEN TO MATCH EXISTING

REMOVE EXISTING LOUVER, MODIFY FOR NEW FLASHINGS. REINSTALL EXISTING LOUVER.

PROVIDE NEW 20 OZ. L.C.C. COUNTER FLASHING PAN UP AT BACK EDGE AND ENDS 2". SECURE WITH SS. SCREWS 3" OC.

TERMINATION BAR FASTEN 6" OC. AND SEAL OFF WITH FABRIC AND FLASHING CEMENT. SEE DETAIL 3/R-6

3 PLY COMPOSITION BASE FLASHING

2" RIGID INSULATION BOARD WITH CEMENTITIOUS TOPPING

FIBER CANT STRIP

DRAINAGE BOARD WITH FILTER FABRIC

4 MIL POLY, TURN UP AT CANT

4-PLY MEMBRANE

EXISTING CEMENTITIOUS DECK AND CURB

NOTE: PROVIDE NEW 20 L.C.C. LOUVER WITH SCREEN AT SIDE OF LOUVER ENCLOSURE. SIZE OF LOUVER SHALL BE EQUAL TO LOST VENTILATION OF EXISTING LOUVER.

LOUVER FLASHING DETAIL (IRMA ROOF)
Glazed Wood Laboratory Doors

Doors shall be glazed with glass starting at 38" above bottom edge of door, with 6" stiles and head. Hardware shall be mounted at 36" to C.L. of hardware above bottom edge of door. If manufacturer cannot provide the 6" stile, 7" is acceptable.
ROOM SIGN TYPE A (FOR INDIVIDUAL ROOMS)

DRAWING TITLE: YSM SIGNAGE

FILE NO: JOB NAME: YSM SIGNAGE STANDARDS

SCALE: N.T.S. DRAWING NO: SK-1

DATE: 8/6/09 JOB NO: N/A PAGE NO:

BUILDING IDENTIFICATION STRIP; PROVIDED BY YSM FC&R, INSTALLED BY CM.

1/32" RAISED BLACK NUMERALS SUBSURFACE SILK-SCREENED RULE

BOTTOM OF LETTER TOP OF BRAILLE GRADE II BRAILLE

INNERFACE MODULE 2.0 ACRYLIC ADA SIGN PANEL COLOR TO BE SELECTED BY ARCHITECT, UNLESS NOTED OTHERWISE ON MESSAGE SCHEDULE.

DEPARTMENT AND/OR OCCUPANT NAMES ON PAPER INSERT

CHANGEABLE PAPER INSERT LOADED FROM LEFT & RIGHT SIDES
ROOM SIGN TYPE B (FOR SUITES OF ROOMS)

DRAWING TITLE
YSM SIGNAGE

FILE NO.
JOB NAME:
YSM SIGNAGE STANDARDS

SCALE: N.T.S.
DATE: 8/6/09
DRAWING NO.: SK-2
JOB NO.: N/A
PAGE NO.
TYPICAL ENTRY DOOR SIGNS

ADDITIONAL LAB SAFETY CARD HOLDERS AT ALL LAB & LAB SUPPORT ENTRY DOORS

SIGN LOCATIONS

NOTE: ALL SIGNS TO BE AT LATCH SIDE OF DOOR
SIGN LOCATIONS (Change #48, 8/11/09)

Construction Manager to provide sign modules at all doors as part of the construction project as follows:

Office: Type A
Office suite: Types B & C
Lab (with no interior rooms): Types A, C, D & E
Lab (with interior rooms): Types B, C, D & E
Lab support: Types A, D & E
All other rooms: Type A (unless directed otherwise)
Corridor Closets: See Section VII, Corridor Finish Treatments, Drawing No. 4A

Note: Only types A&B contain room numbers
<table>
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<tr>
<th>TAG</th>
<th>SIGN TYPE</th>
<th>ROOM NUMBER</th>
<th>ROOM NAME</th>
<th>MESSAGE (TACTILE CHARACTERS ON SIGN TYPES A &amp; B)</th>
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<tr>
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<td>EMERGENCY EYE WASH</td>
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<td>EQUIPMENT ROOM</td>
<td>E63</td>
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*NOTE: OM TO PROVIDE POST-IT NOTE MOCK-UP OF SIGNAGE LOCATIONS; ARCHITECT & YSM TO REVIEW PRIOR TO RELEASE.  

YSM SIGNAGE NOTES:  
MANUFACTURER: INNERFACE ARCHITECTURAL SIGNAGE, INC. OF LIBURN, GEORGIA  
SIGN COLOR: IN ACCORDANCE WITH YSM DESIGN STANDARDS  
RAISED CHARACTER COLOR: BLACK, HELVETICA REGULAR  
NOTE: ALL SIGNS SHALL BE FURNISHED WITH MATCHING REMOVABLE BLANK INSERTS.
Signs for Emergency Showers and Eyewashes (Change # 11, 9/1/2005)

Signs shall be provided at all emergency showers and eyewashes as follows:

Layout/graphics as shown on the 2 following attachments

Material to be white PVC, 6” x 6”, with adhesive backing

Mount on centerline of fixture, 48” minimum to 60” maximum to the top of the letters

Signs are available from Signlite, Inc, North Haven
Emergency Eyewash
Coffee Cubbies (change#30 1/15/10)

Coffee cubbies in accordance with following sketch are to be provided in renovated corridors except when the corridor is demolished as for a full floor renovation. Provide sufficient shelf length so that each occupant has convenient access and space for at least one beverage container. When corridors are fully demolished and rebuilt coffee cubbies are to be integrated into the corridor design in sufficient quantities to meet above criteria.
LAMINATE BACK:
DEVANAR
ALTOOST
WALL STREET ALLUSION

INSERT BACK & PROVIDE
12" CLIPS FOR MOUNTING

SHOES & SHELVES:
5/8" MAPLE
CLEAR FINISH

(OR MATCH EXISTING SPECIES & FINISH)

SECURE WITH CONCEALED METAL ANGLES BEHIND & BELOW

ALIGN WITH BOTTOM OF TAB SIGNS