JOB ORDER CONTRACT

Master Details

May 2013
<table>
<thead>
<tr>
<th>Master Details</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Details Cabinets</td>
<td>5</td>
</tr>
<tr>
<td>Master Details Ceilings</td>
<td>33</td>
</tr>
<tr>
<td>Master Details Doors</td>
<td>38</td>
</tr>
<tr>
<td>Master Details Electrical</td>
<td>56</td>
</tr>
<tr>
<td>Master Details Equip</td>
<td>57</td>
</tr>
<tr>
<td>Master Details Mech</td>
<td>61</td>
</tr>
<tr>
<td>Master Details Partitions</td>
<td>103</td>
</tr>
<tr>
<td>Master Details Plumbing</td>
<td>118</td>
</tr>
<tr>
<td>Master Details Signs</td>
<td>135</td>
</tr>
<tr>
<td>Master Details Site Wk</td>
<td>163</td>
</tr>
</tbody>
</table>
ADJUSTABLE SHELVING (STD)

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

ELEVATION VIEW

Note: This elevation for lengths up to 48" overall width.

Section A

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

Note: this elevation for lengths from 49" to 72" overall width.

Refer to interior elevations for length (72" max)

Refer to interior elevations for length (48" max)

Refer to interior elevations for height and qty of shelves

Refer to interior elevations for height and qty of shelves

Shelf bracket
Shelf standard
End panel

Shelf bracket
Shelf standard
End panel

3/4" Plywd. Shelf
W/ Hardwood Edge Band
And with finish as noted on project drawings.

3/4" Plywd. End Panel
W/ Hardwood Edging
At each end of shelf
And with finish as noted on project drawings.

Extra heavy duty standard
W/ Anochrome Finish #87

Extra heavy duty bracket
W/ Anochrome Finish #187L

3/4" Plywd. Shelf
W/ Hardwood Edge Band
And with finish as noted on project drawings.

Face of wall.

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
7703 FUMC Drive, San Antonio, Texas 78229-7657
Phone: (210) 567-3885

DRAWN: SP
DATE: 04/13/99

MASTER DETAIL NO.
AC-06
WALL LINE

(COUNTERTOP)
REFER TO ELEV.
FOR FINISH

HARDWOOD
TRIM

BREAD
BOARD

drawer Front

FILE DRAWER
FRONT

FLOOR LINE

2'-0"

WOOD
BLOCKING

2'-6"

2XWD.
BLOCKING

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

FILE/DRAWER WOOD
BASE CABINET 24"

DRAWN: RO  DATE: 06/18/98

MASTER
DETAIL NO.
AC-22
WALL LINE

(COUNTERTOP)
REFER TO ELEV.
FOR FINISH.

2'-0"

HARDWOOD
TRIM

WOOD
BLOCKING

FRONT DRAWER
OR KEY BOARD DRAWER

KNEE SPACE

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

WOOD DRAWER APRON
DRAWN: DR  DATE: 10/27/98

MASTER DETAIL NO.
AC-27
WALL LINE

3/4"x1 1/2" FACING

3/4" ADJUSTABLE PLYWD. SHELF W/HARDWD. EDGE BAND.

METAL STANDARDS AND SHELF SUPPORTS

DOOR FRONT

3/4"x1 1/2" FACING

1/4" PLYWD. BACK PANEL

SECTION

SCALE:  3/4" = 1'-0"
ADJUSTABLE WOOD SHELF UNIT

SECTION

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

1/4" x 1" FACING

3/4" ADJUSTABLE PLYWD. SHELF W/HARDWD. EDGE BAND

METAL ANGLE BRACKET

3/4" PLYWD. WITH HARDWD. EDGE BAND

METAL STANDARDS W/SHELF SUPPORTS

METAL REAGENT AND BASE CAB'T. W/BLACK LAB TOP

DRAWN: EM  DATE: 08/06/98

THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO
3515 REDRUM DR, BK 5057, SAN ANTONIO, TX 78284-7057
TELEPHONE 210-565-4101  FAX 210-565-4189

MASTER DETAIL NO.
AC-43
WALL LINE

PLASTIC LAMINATE COUNTERTOP

2'-0"

WOOD BLOCKING

HARDWOOD TRIM

DRAWER FRONT

DOOR FRONT

FLOOR LINE

3"/4"

WOOD BLOCKING

METAL STANDARDS W/ SHELF SUPPORTS

3/4" ADJUSTABLE PLYWD. SHELF W/HARDWD. EDGE BAND.

SECTION

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

NOTE: REFER TO PROJECT DRAWINGS FOR FINISHES AND COUNTERTOP/CABINET MATERIALS
COUNTERTOP, REFER TO INTERIOR, ELEVATION FOR FINISH

HARDWOOD TRIM

FRONT DRAWER OR KEYBOARD DRAWER

3/4" PLYWOOD LEG SUPPORT

KNEE SPACE

FLOOR LINE

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

WOOD DESK UNIT WITH APRON

DRAWN: DR/ES DATE: 07/23/03

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
7900 FLOYD GULF DR, SAN ANTONIO, TEXAS 78284-7657
PHYSICAL PLANT ENGINEERING TEL NO. 210-348-2600

MASTER DETAIL NO.
AC-53
WALL LINE
PLASTIC LAMINATE COUNCERTOP
HARDWOOD TRIM
BREAD BOARD
DRAWER FRONT
FILE DRAWER FRONT
FLOOR LINE

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

SECTION

2'-0"
2'-6"

2XWD. BLOCKING

ADJUSTABLE SHELVEING
WOOD BASE CABINET 24"

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
7703 FUMO DR, SAN ANTONIO, TX 78284-7517
PHONE: 210-567-5050

DRAWN: DR
DATE: 09/22/98

MASTER DETAIL NO.
AC-55
ADJUSTABLE SHELVING
WOOD BASE CABINET

DRAWN: DR  DATE: 10/27/98

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
7703 FIORE CIRCLE  DR. SAN ANTONIO, TX 78284-7137

SECTION
SCALE: 3/4" = 1'-0"
1/2"x1 1/2" FACING

METAL STANDARDS AND SHELF SUPPORTS

3/4" ADJUSTABLE PLYWD. SHELF W/HARDWD. EDGE BAND

1/2"x1 1/2" FACING

1/4" PLYWD. BACK PANEL

3/4" FIXED PLYWD. SHELF W/HARDWD. EDGE BAND

HARDWOOD TRIM

DOOR FRONT

3/4" ADJUSTABLE PLYWD. SHELF W/HARDWD. EDGE BAND

1/4" PLYWD. BACK PANEL

METAL STANDARDS W/SHELF SUPPORTS

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

ADJUSTABLE SHELVING W/ BASE CABINET
DRAWN: SP DATE: 03/23/99

THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO
7950 Frio Cir, Suite 500, San Antonio, TX 78229-3999
PENCIL PLAN REVISIONS TO: (DATE) 3/23/99

MASTER DETAIL NO. AC-77
ADJUSTABLE WOOD SHELF UNIT

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
700 FLORENTINO PL. SAN ANTONIO, TX 78229-7010
PHONE: 210-567-5855

MASTER DETAIL NO. AC-84

DRAWN: SL DATE: 02/24/99

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

3/4" FIXED TOP AND BOTTOM SHELVES W/ HDWD. EDGE BAND

3/4" ADJUSTABLE PLYWD. SHELF W/ HARDWD. EDGE BAND

METAL STANDARDS AND SHELF SUPPORTS

1/4" CORK BD. WITH 1/2"x1/2" WD. TRIM

3/4" PLYWOOD WITH HDWD. EDGE BAND

2-3/4" PLYWOOD CENTER SUPPORT

METAL ANGLE BRACKET

1 1/4" EPOXY RESIN BLACK LAB. TOP

2"x4" WD SUPPORTS

STEEL 18" STANDARD #80 ANO

3/4" ADJ. PLYWD. SHELF W/HDWD EDGE BAND

10" STEEL SHELF BRACKED #1600LL ANO

METAL BASE CABINET

SECTION

CHASE
3/4" PLYWD. FIXED SHELF WITH PLASTIC LAM. FINISH

COUNTERTOP AS SPECIFIED ON PLANS

BASE CABINET

FLOOR LINE

WALL

COUNTERTOP LIGHT FIXTURE

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

FIXED WOOD SHELF W/ TASKLIGHT

DRAWN: SP DATE: 03/04/99

MASTER DETAIL NO. AC-92
NOTE: REFER TO PROJECT DRAWINGS FOR FINISHES.

WALL LINE

COUNTERTOP

HARDWOOD TRIM

2'-0"

BACKSPLASH

WOOD BLOCKING

DRAWER FRONT

DRAWER FRONT

FLOOR LINE

4

3"

2XWD. BLOCKING

3'-0"

SECTION

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

4 DRAWER WOOD BASE CABINET

DRAWN: EM

DATE: 04/15/99

MASTER DETAIL NO.

AC-95
REFER TO INTERIOR ELEVATIONS FOR LENGTH (72" MAX)

3/4" PLYWOOD SHELF
W/HARDWOOD EDGE BAND
AND WITH FINISH AS NOTED
ON PROJECT DRAWINGS.

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

NOTE: THIS ELEVATION FOR LENGTHS
FROM 49" TO 72" OVERALL WIDTH.

REFER TO INTERIOR ELEVATIONS FOR LENGTH (48" MAX)

3/4" PLYWOOD SHELF
W/HARDWOOD EDGE BAND
AND WITH FINISH AS NOTED
ON PROJECT DRAWINGS.

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

NOTE: THIS ELEVATION FOR LENGTHS
UP TO 48" OVERALL WIDTH.

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

NOTE: STANDARDS TO BE KNAPE & VOGT 80 ANO OR APPROVED EQUAL. BRACKETS
TO BE KNAPE & VOGT 160LL ANO OR APPROVED EQUAL. FOR SHELVES WIDER THAN
12" REFER TO PLANS FOR DETAILS ON SUPPORTS.

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER, SAN ANTONIO
7703 FLOYD CURL DR, SAN ANTONIO, TX 78229
FACILITIES MANAGEMENT, 210-567-2880

DESCRIPTION:
ADJUSTABLE SHELVING

DRAWN: ES
DATE: 11/01/01

MASTER DETAIL NO.
AC-138
NOTE: REFER TO PROJECT DRAWINGS FOR FINISHES AND COUNTERTOP/CABINET MATERIALS

3/4" PLYWOOD FIXED TOP AND BOTTOM SHELVES W/ HDWD. EDGE BAND

3/4" PLYWOOD END PANEL WITH HDWD. EDGE BAND

3/4" ADJUSTABLE PLYWD. SHELF W/ HARDWD. EDGE BAND

METAL STANDARDS AND SHELF SUPPORTS

2"x4" WD SUPPORTS

1/4" CORK BD. WITH 1/2"x1/2" WD. TRIM

METAL ANGLE BRACKET

COUNTERTOP

BASE CABINET

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

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
THE 4TH FLOOR CCR, 2828 N. WESLEY, SD, S090-188
PHYSICAL REVIEW, INC. TEL. 210-545-2430

ADJUSTABLE WOOD SHELF UNIT
DRAWN: SP  DATE: 10/14/99

MASTER DETAIL NO.
AC-142
NOTE: REFER TO PROJECT DRAWINGS FOR FINISHES AND COUNTERTOP/CABINET MATERIALS

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

ADJUSTABLE WOOD SHELF UNIT
DRAWN: SP DATE: 10/14/99

MASTER DETAIL NO. AC-143
TABLE 1: ACCESSIBLE EPOXY RESIN DROPIN SINKS SIZES

<table>
<thead>
<tr>
<th>MARK</th>
<th>Inside Dim. (in.)</th>
<th>Outside Dim. (in.)</th>
<th>Overall Height (in.)</th>
<th>Lab Tops Sink No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>14 X 10</td>
<td>15.6 X 11.6</td>
<td>5.8</td>
<td>A05</td>
</tr>
<tr>
<td>B</td>
<td>14 X 14</td>
<td>15.6 X 15.6</td>
<td>5.8</td>
<td>A07</td>
</tr>
<tr>
<td>C</td>
<td>18 X 15</td>
<td>19.6 X 16.6</td>
<td>5.8</td>
<td>A25</td>
</tr>
<tr>
<td>D</td>
<td>25 X 15</td>
<td>26.6 X 16.6</td>
<td>5.8</td>
<td>A55</td>
</tr>
</tbody>
</table>

ACCESSIBLE SINK AT METAL BASE CABINET 34" HT.

DRAWN: ES DATE: 10/12/2000
NOTE: REFER TO PROJECT DRAWINGS FOR FINISHES AND COUNTERTOP/CABINET MATERIALS

3/4" PLYWOOD FIXED TOP AND BOTTOM SHELVES W/ HDWD. EDGE BAND

3/4" PLYWOOD END PANEL WITH HDWD. EDGE BAND

3/4" ADJUSTABLE PLYWD. SHELF W/ HARDWD. EDGE BAND

METAL STANDARDS AND SHELF SUPPORTS

3/4" PLYWD. WITH HARDWOOD EDGE BANDS

METAL ANGLE BRACKET

COUNTERTOP

SEE ELEVATIONS FOR BASE CABINET TYPE

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

ADJUSTABLE WOOD SHELF UNIT ON COUNTER

DRAWN: EM DATE: 05/21/01
7/8" Furring Channels at 16" O.C.

One layer of 5/8" Gypsum wall board anchored to furring channels.

1-1/2" Carrying Channels at 4'-0" O.C.

See plans for finish.

Section
Scale: 3" = 1'-0"
EXTEND STUDS TO STRUCTURAL DECK ABOVE

2 1/2" DIAGONAL STUD BRACING

SUSPENDED CEILING REFER TO PLANS

5/8" G.W.B.

METAL CORNER REINFORCING

FURR DOWN DETAIL

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

GYPSUM BOARD FURR-DOWN

DRAWN: ES  DATE: 08/20/99

MASTER DETAIL NO. AF-8
3/4" COLD ROLLED CHANNELS AT 16" O.C.

3/4" CEMENTITIOUS PLASTER SOFFIT ON METAL LATH

SEE PLANS FOR FINISH

SECTION
SCALE: 3" = 1'-0"

PLASTER SOFFIT CEILING

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
7703 FLOYD C. W. SMITH RD., SAN ANTONIO, TEXAS 78284-7167
PHYSICAL PLANT DEPARTMENT
TEL: 210-567-3577

DRAWN: ES
DATE: 01/21/2000

MASTER DETAIL NO.
AF-9
1x4's @ 36" O.C. spanning across adjacent ceiling grids.

Existing ceiling grid hangers

Existing ceiling tile

Existing ceiling grid

3/4" plywood with hardwood edge band (paint flat black)

Continuous 2" #8 anchor to 2x4's with round head screws & washers

Curtain track (by contractor)

Fabric curtain (by contractor)

Wood cove detail

Scale: 1 1/2" = 1'-0"
FURR DOWN DETAIL

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

7/8" FURRING CHANNELS AT 16" O.C.

1-1/2" CARRYING CHANNELS AT 4'-0" O.C.

ONE LAYER OF 5/8 G.W.B. ANCHORED TO FURRING CHANNELS

VARIES

EXISTING GWB FURR DOWN

8'-6" A.F.F.

EXISTING BRACING

EXISTING ACCOUSTICAL CEILING TILE & GRID

GYPSETUM BOARD FURR-DOWN

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
795 FURR CURE, 60, SAN ANTONIO, TEXAS 78284-7667
PHONE 210-562-5186

DRAWN: SP   DATE: 03/14/00

MASTER DETAIL NO. AF-15
NOTE: FOR NON-RATED APPLICATIONS, PROVIDE SAFETY GLASS. FOR FIRE-RATED APPLICATIONS UP TO 90 MIN., PROVIDE FIRE-RATED GLASS.

GLASS VIEW PANEL WITH STEEL FRAME
-SEE MASTER DETAIL AD-04

DOOR AS SCHEDULED

ELEVATION VIEW
SCALE: 3/8" = 1'-0"

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>VISIBLE LITE SIZE</td>
<td>10&quot;</td>
</tr>
<tr>
<td>GLASS ORDER SIZE</td>
<td>11&quot;</td>
</tr>
<tr>
<td>CUT OUT SIZE</td>
<td>12&quot;</td>
</tr>
</tbody>
</table>
NOTE: FOR NON-RATED APPLICATIONS, PROVIDE SAFETY GLASS.
FOR FIRE-RATED APPLICATIONS UP TO 90 MIN., PROVIDE
FIRE-RATED GLASS.

ELEVATION VIEW
SCALE: 3/8” = 1’-0”

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>6”</td>
<td>33”</td>
</tr>
<tr>
<td>7”</td>
<td>34”</td>
</tr>
<tr>
<td>8”</td>
<td>35”</td>
</tr>
</tbody>
</table>

GLASS VIEW PANEL
WITH STEEL FRAME
- SEE MASTER DETAIL AD-04

DOOR AS SCHEDULED
NOTE: DETAIL BASED ON AIR LOUVERS, INC. MODEL VLF–EZ BEVELED VISION LITE WITH CONTINUOUS GLASS RETAINER, AS AVAILABLE FROM WESSELY–THOMPSON HARDWARE.

OPTIONS AVAILABLE: —22 GAUGE #304 STAINLESS STEEL #4 FINISH
—ELECTRO–GALVANIZED STEEL
—LEAD–LINED FOR X–RAY PROTECTION

1–3/4" DOOR ONLY

#8X7/8" FLATHEAD PHILLIPS HEAD SMS.

20 GAUGE CRS FRAME

1/4" FIRE RATED GLASS
WITH U.L. CLASSIFICATION
MARKINGS FOR FIRE
RATED APPLICATIONS

1–3/8" OVER ORDER SIZE

1 1/4"

1/4" FIRE RATED GLASS WITH U.L. CLASSIFICATION MARKINGS FOR FIRE RATED APPLICATIONS

20 GAUGE C.R.S. FRAME WITH MINERAL BRONZE BAKED ON POWDER COAT. (SPECIAL ORDER COLORS AND GRAY PRIMER AVAILABLE). TO BE FACTORY INSTALLED.

SECTION

SCALE: 3" = 1'-0"

FIRE RATINGS (WITH U.L. AND WHI CLASSIFICATION MARKINGS):

20 MINUTE: APPROVED LISTING AT 1296 SQ. IN. VISIBLE LITE (MAX. WIDTH 54", MAX. HEIGHT 54")

45 MINUTE: APPROVED LISTING AT 1296 SQ. IN. VISIBLE LITE (MAX. WIDTH 54", MAX. HEIGHT 54")

60/90 MINUTE: APPROVED LISTING AT 100 SQ. IN. VISIBLE LITE (MAX. WIDTH 10", MAX. HEIGHT 33")
HW1 (SINGLE, NON-RATED)
3 EA. BUTTS
1 EA. CORBIN RUSSWIN (SEE PLAN)
1 EA. STOP

HW2 (SINGLE, FIRE-RATED, "LABS")
3 EA. BUTTS
1 EA. CORBIN RUSSWIN (SEE PLAN)
1 EA. STOP
1 EA. CLOSER IC#3602
1 EA. SMOKE SEAL
1 EA. MOP PLATE, 8" H
1 EA. ARMOR PLATE, 36" H

HW3 (SINGLE, FIRE-RATED, "LABS")
3 EA. BUTTS
1 EA. CORBIN RUSSWIN (SEE PLAN)
1 EA. CLOSER IC#3602
1 EA. ELECTROMAG. HOLDER
1 EA. SMOKE SEAL
1 EA. MOP PLATE, 8" H
1 EA. ARMOR PLATE, 36" H

HW4 (SINGLE, DUTCH DOOR, NON-RATED, "OFFICE")
4 EA. BUTTS
1 EA. CORBIN RUSSWIN (SEE PLAN)
1 EA. MORTISE DEADLOCK #DL4013
1 EA. FLUSH BOLT

HW5 (SINGLE, NON-RATED, "OFFICE")
3 EA. BUTTS
1 EA. CORBIN RUSSWIN (SEE PLAN)
1 EA. STOP
1 EA. CLOSER IC#3602
1 EA. SMOKE SEAL

HW6 (DOUBLE, FIRE-RATED)
6 EA. BUTTS FROM STOCK IC#3197
2 EA. FALCON LOCKSET IC#3649
2 EA. AUTOMATIC FLUSH BOLTS #FB10
1 EA. DOOR COORDINATOR #CSM
2 EA. CLOSURES FROM STOCK IC#3602
2 EA. KICK PLATES 8" X 35"
2 EA. DOOR STOPS FROM STOCK
1 EA. SMOKE SEAL (FRAME) IC#3168

HW7 (SINGLE, NON-RATED)
3 EA. BUTTS HINGES IC#3197
1 EA. CORBIN RUSSWIN (SEE PLAN)
1 EA. SMOKE SEAL (FRAM) IC#3168
1 EA. SEAL-O-MATIC 36", IC#3166

HW8 (DOUBLE, NON-RATED)
6 EA. BUTTS FROM STOCK
2 EA. EXIT DEVICES
2 EA. CLOSURES IC#3602
2 EA. KICK PLATES
2 EA. DOOR STOPS

HW9 (SINGLE, FIRE-RATED, "OFFICE")
3 EA. BUTTS
1 EA. CORBIN RUSSWIN (SEE PLAN)
1 EA. STOP
1 EA. CLOSER IC#3602
1 EA. SMOKE SEAL
1 EA. MOP PLATE, 8" H
1 EA. KICK PLATE, 8" H

HW10 (SINGLE, DUTCH DOOR FIRE-RATED)
4 EA. BUTTS
1 EA. CORBIN RUSSWIN (SEE PLAN)
1 EA. MORTISE DEAD LOCK #DL4013
1 EA. FLUSH BOLT
1 EA. STOP
1 EA. HOLD OPEN RIXON #996
1 EA. CLOSER IC#3602
1 EA. SMOKE SEAL
1 EA. MOP PLATE, 8" H

HW11 (SINGLE, FIRE-RATED REST ROOM)
3 EA. 4-1/2" X 4-1/2 BUTT IC#3194
1 EA. PUSH PLATE#73C US32D, ROCKWOOD
1 EA. PULL PLATE #92 US32D, ROCKWOOD
1 EA. STOP
1 EA. CLOSER IC#3602
1 EA. SMOKE SEAL
1 EA. MOP PLATE, 8" H
1 EA. KICK PLATE, 8" H

GENERAL NOTE: DOORS TO BE PROVIDED W/SOLID WELDED FRAMES WITH WELDED JAMB ANCHORS.
ELEVATION

SCALE: 3/8" = 1'-0"

GENERAL NOTES:

1. DOOR SHALL BE LABELED 20 MIN. 1-3/4" THICK MANUFACTURED FROM COLD-ROLLED STEEL.
2. DOOR SHALL HAVE MINIMUM 1 COAT RUST INHIBITING PAINT.
3. GLAZING SHALL BE FIRE-RATED, SAFETY-RATED CERAMIC GLASS, FIRELITE NT PREMIUM FINISH, 3/16" THICK, BY OWNER.
4. DOOR SHALL HAVE MORTISE FOR 3EA. 4-1/2" X 4" BUTT HINGES.
5. DOOR SHALL BE CUT-OUT FOR FALCON RU511A626 LEVER HANDLE LOCKSET.
6. DOOR SHALL HAVE REINFORCING FOR OWNER PROVIDED CLOSER.
7. DOOR SHALL BE REINFORCED, STIFFENED, SOUND DEADENED AND INSULATED.
8. DOOR VENDOR SHALL PROVIDE LITE FRAME KITS FOR 3/16" FIRELITE NT FIRE RATED GLASS.
9. STORY POLE WILL BE PROVIDED BY OWNER.

GLASS SCHEDULE

<table>
<thead>
<tr>
<th>MK</th>
<th>DOOR WIDTH</th>
<th>VISIBLE LITE WIDTH</th>
<th>* GLASS ORDER WIDTH</th>
<th>** CUT-OUT WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3'-0&quot;</td>
<td>24&quot;</td>
<td>25&quot;</td>
<td>26&quot;</td>
</tr>
<tr>
<td>B</td>
<td>3'-6&quot;</td>
<td>30&quot;</td>
<td>31&quot;</td>
<td>32&quot;</td>
</tr>
<tr>
<td>C</td>
<td>3'-8&quot;</td>
<td>32&quot;</td>
<td>33&quot;</td>
<td>34&quot;</td>
</tr>
<tr>
<td>D</td>
<td>4'-0&quot;</td>
<td>36&quot;</td>
<td>37&quot;</td>
<td>38&quot;</td>
</tr>
</tbody>
</table>

* GLASS ORDER HEIGHT = 32"
** CUT-OUT HEIGHT = 33"

Rated Steel Door with Full Glazing

DRAWN: PM/RG    DATE: 09/02/99

THE UNIVERSITY OF TEXAS AT SAN ANTONIO

MASTER DETAIL NO. AD-10
ELEVATION
SCALE: 3/8" = 1'-0"

DOUBLE DOOR HARDWARE SCHEDULE

2 SET 4"X4-1/2", BUTT HINGES, BY STANLEY, US26D FINISH, (3 PER SET) IC 3197
1 EA. FALCON LOCK SET, RU 101, US26D FINISH, IC 3649
1 SET MANUAL FLUSH BOLTS, #FB6-US32D, GLYN/JOHNSON, (2 PER SET)
ELEVATION
SCALE: 3/8" = 1'-0"

GENERAL NOTES:
1. FRAME SHALL BE BRONZE ANODIZED ALUMINUM AND NARROW STYLE DOOR, WITH 3/16" ONE-WAY MIRROR, SAFETY GLASS.
2. DOOR SHALL HAVE MORTISE FOR 3EA. 4-1/2" X 4" BUTT HINGES.
3. DOOR SHALL BE CUT-OUT FOR FALCON RU511A626, LEVER HANDLE LOCKSET.
4. DOOR SHALL BE REINFORCED, STIFFENED, SOUND DEADENED AND INSULATED.
5. DOOR VENDOR SHALL PROVIDE LITE FRAME KITS FOR 3/16" ONE-WAY MIRROR, SAFETY GLASS.

GLASS SCHEDULE

<table>
<thead>
<tr>
<th>MK</th>
<th>DOOR WIDTH</th>
<th>VISIBLE LITE WIDTH</th>
<th>** GLASS ORDER WIDTH</th>
<th>** CUT-OUT WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3'-0&quot;</td>
<td>27&quot;</td>
<td>27 3/4&quot;</td>
<td>28&quot;</td>
</tr>
<tr>
<td>B</td>
<td>3'-6&quot;</td>
<td>33&quot;</td>
<td>33 3/4&quot;</td>
<td>34&quot;</td>
</tr>
<tr>
<td>C</td>
<td>3'-8&quot;</td>
<td>35&quot;</td>
<td>35 3/4&quot;</td>
<td>36&quot;</td>
</tr>
<tr>
<td>D</td>
<td>4'-0&quot;</td>
<td>39&quot;</td>
<td>39 3/4&quot;</td>
<td>40&quot;</td>
</tr>
</tbody>
</table>

* GLASS ORDER HEIGHT = 38 7/8" & 32 5/8" (39 7/8" & 33 5/8")
** CUT OUT HEIGHT = 39 1/8" & 32 7/8" (40 1/8" & 33 7/8")
( ) = MEASUREMENTS FOR 7'-2" HIGH DOOR

Aluminum Door with Full Glazing

Drawn: EM  Date: 01/05/00

MASTER DETAIL NO. AD-15
NOTE: FOR NON-RATED APPLICATIONS, PROVIDE SAFETY GLASS. FOR FIRE-RATED APPLICATIONS UP TO 45 MIN., PROVIDE FIRE-RATED GLASS.

ELEVATION VIEW
SCALE: 3/8" = 1'-0"

GLASS SCHEDULE

<table>
<thead>
<tr>
<th>MK</th>
<th>DOOR WIDTH</th>
<th>VISIBLE LITE WIDTH</th>
<th>* GLASS ORDER WIDTH</th>
<th>** CUT-OUT WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3'-0&quot;</td>
<td>24&quot;</td>
<td>25&quot;</td>
<td>26&quot;</td>
</tr>
<tr>
<td>B</td>
<td>3'-6&quot;</td>
<td>30&quot;</td>
<td>31&quot;</td>
<td>32&quot;</td>
</tr>
<tr>
<td>C</td>
<td>3'-8&quot;</td>
<td>32&quot;</td>
<td>33&quot;</td>
<td>34&quot;</td>
</tr>
<tr>
<td>D</td>
<td>4'-0&quot;</td>
<td>36&quot;</td>
<td>37&quot;</td>
<td>38&quot;</td>
</tr>
</tbody>
</table>

* GLASS ORDER HEIGHT = 32"
** CUT-OUT HEIGHT = 33"
RW SERIES

STANDARD SIZES: SPECIAL SIZES AND MODIFICATIONS AVAILABLE ON REQUEST

<table>
<thead>
<tr>
<th>(INCHES)</th>
<th>(mm)</th>
<th>(# of Screwdriver Cams)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 x 08</td>
<td>204 x 204</td>
<td>1</td>
</tr>
<tr>
<td>12 x 12</td>
<td>306 x 306</td>
<td>1</td>
</tr>
<tr>
<td>16 x 16</td>
<td>407 x 407</td>
<td>1</td>
</tr>
<tr>
<td>18 x 18</td>
<td>458 x 458</td>
<td>1</td>
</tr>
<tr>
<td>22 x 30</td>
<td>560 x 764</td>
<td>2</td>
</tr>
<tr>
<td>24 x 24</td>
<td>611 x 611</td>
<td>2</td>
</tr>
<tr>
<td>24 x 36</td>
<td>611 x 916</td>
<td>3</td>
</tr>
<tr>
<td>24 x 48</td>
<td>611 x 1222</td>
<td>4</td>
</tr>
</tbody>
</table>

"NYSTROM" RECESSED ACCESS DOOR (OR APPROVED EQUAL)

ACCESS DOOR DETAIL
HALF SCALE
NOTE: FOR FIRE-RATED APPLICATIONS UP TO 90 MIN., PROVIDE FIRE-RATED GLASS.

GLASS VIEW PANEL WITH STEEL FRAME
—SEE MASTER DETAIL AD-04

DOOR AS SCHEDULED

ELEVATION VIEW
SCALE: 3/8" = 1'-0"

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>33&quot;</td>
</tr>
<tr>
<td>7&quot;</td>
<td>34&quot;</td>
</tr>
<tr>
<td>8&quot;</td>
<td>35&quot;</td>
</tr>
</tbody>
</table>

HARDWARE TYPE

1-1/2 PAIR BALL BEARINGS HINGES
CLOSER
LOCKSET W/ LEVER HANDLES BOTH SIDES
STOP
SMOKE SEAL AT FRAME JAMBS AND HEAD

45 Minute Fire Rated Door Elevation
DRAWN: RG    DATE: 10/26/00

MASTER DETAIL NO.
AD-30
NOTE: FOR NON-RATED APPLICATIONS, PROVIDE WIRE GLASS.
FOR FIRE-RATED APPLICATIONS UP TO 60 MIN., PROVIDE
FIRE-RATED GLASS.

GLASS VIEW PANEL
WITH STEEL FRAME
-SEE MASTER DETAIL AD-04

DOOR AS SCHEDULED.

ELEVATION VIEW
SCALE: 3/8" = 1'-0"

GLASS SCHEDULE

<table>
<thead>
<tr>
<th>MK</th>
<th>DOOR WIDTH</th>
<th>VISIBLE LITE WIDTH</th>
<th>* GLASS ORDER WIDTH</th>
<th>** CUT-OUT WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3'-0&quot;</td>
<td>15&quot;</td>
<td>16&quot;</td>
<td>17&quot;</td>
</tr>
<tr>
<td>B</td>
<td>3'-6&quot;</td>
<td>21&quot;</td>
<td>22&quot;</td>
<td>23&quot;</td>
</tr>
<tr>
<td>C</td>
<td>3'-8&quot;</td>
<td>27&quot;</td>
<td>28&quot;</td>
<td>29&quot;</td>
</tr>
<tr>
<td>D</td>
<td>4'-0&quot;</td>
<td>33&quot;</td>
<td>34&quot;</td>
<td>35&quot;</td>
</tr>
</tbody>
</table>

* GLASS ORDER HEIGHT = 34"
** CUT OUT HEIGHT = 35"

UL DOOR ELEVATION 60 min.
MASTER DETAIL NO.
AD-36

DRAWN: KA      DATE: 12/18/02
16 GA. HOLLOW METAL DOUBLE DOORS. 1 HOUR FIRE RATED

ELEVATION

SCALE: 3/8" = 1'-0"

DOUBLE DOOR HARDWARE SCHEDULE

DOOR HARDWARE:

1 EA. FALCON LOCK SET RU 101 US26D FINISH IC#3649
2 SETS 4"x4" BUTT HINGES BY STANLEY, US25D FINISH (3 PER DOOR) IC #3197
1 SET MANUAL FLUSH BOLTS, FB6-US32D GLYN/JOHNSON, (2 PER SET)
2 EA RUSSWIN DOOR CLOSER #DC2693, DOOR MOUNTED
DOUBLE DOOR HARDWARE SCHEDULE

DOOR HARDWARE:

1. EA FALCON LOCK SET RU 101 US26D FINISH IC #3649
2. SET 4"x4" BUTT HINGES BY STANLEY, US25D FINISH (3 PER DOOR) IC #3197
3. SET AUTOMATIC FLUSH BOLTS, FB41P-US32D Glyn/Johson, (2 PER SET)
4. EA RUSSWIN DOOR CLOSER #DC2693, DOOR MOUNTED
5. EA COORDINATOR & FILLER BAR, Glyn/Johson, COR52XFL20

16 GA. HOLLOW METAL DOUBLE DOORS. 1 HOUR FIRE RATED
ELEVATION
SCALE: 3/8" = 1'-0"
STANDARD DOOR FRAME
SC 1/2" = 1'-0"

TRANSOM DOOR FRAME
SC 1/2" = 1'-0"

HARDWARE TYPE
1-1/2 PAIR BALL BEARINGS HINGES
CLOSER
LOCKSET W/ LEVER HANDLES BOTH SIDES
STOP
SMOKE SEAL AT FRAME JAMBS AND HEAD
ELEVATION VIEW
SCALE: 3/8" = 1'-0"

FLUSH WOOD DOOR/METAL FRAME, 20min. FIRE RATED:

3'-0" X 7'-0" X 1-3/4", FLUSH SOLID CORE WOOD DOOR. RIGHT HAND SWING, 20 min. FIRE RATED, RED OAK VENEER, DOOR TO BE MANUFACTURED WITH AN INCOMBUSTIBLE MINERAL CORE AND BONDED TO SOLID HARDWOOD FRAME, VENEER TO BE PLAIN SLICE WITH 1-1/4" HARDWOOD LUMBER STILES TO MATCH, STILES TO MEET AWI STANDARDS, SECTION 1300; 7th EDITION METAL LABEL SHALL BE ON HINGE SIDE TO MEET NFPA--80 STANDARDS. REFER TO LIST BELOW FOR HARDWARE TO BE USED.

HARDWARE PROVIDED BY OWNER:

<table>
<thead>
<tr>
<th>SERIES#</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>STYLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>#70C</td>
<td>ROCKWOOD PULL PLATE</td>
<td>4&quot; X 16&quot;</td>
<td>BIO-GUARD</td>
</tr>
<tr>
<td>#92</td>
<td>ROCKWOOD PULL PLATE</td>
<td>4&quot; X 16&quot;</td>
<td>BIO-GUARD</td>
</tr>
<tr>
<td>DC2000</td>
<td>RUSSWIN CLOSER</td>
<td>1&quot; X 2&quot; X 10&quot;</td>
<td>FLUSH MOUNT</td>
</tr>
<tr>
<td>FBB-179</td>
<td>STANLEY HINGES</td>
<td>4-1/2&quot; X 4-1/2&quot;</td>
<td>BUTT</td>
</tr>
<tr>
<td>#K1050</td>
<td>ROCKWOOD KICK PLATE</td>
<td>8&quot; X 34&quot;</td>
<td>S/STEEL</td>
</tr>
</tbody>
</table>
1/4" TEMPERED GLASS WITH STEEL FRAME
MASTER DETAIL AD—04

TRANSOM FRAME ELEVATION
SCALE: 1/2" = 1'-0"

HARDWARE TYPE
1-1/2 PAIR BALL BEARINGS HINGES
CLOSER
LOCKSET W/ LEVER HANDLES BOTH SIDES
STOP
SMOKE SEAL AT FRAME JAMBS AND HEAD

<table>
<thead>
<tr>
<th>DOOR LITE</th>
<th>WIDTH</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>VISIBLE LITE SIZE</td>
<td>10&quot;</td>
<td>10&quot;</td>
</tr>
<tr>
<td>GLASS ORDER SIZE</td>
<td>11&quot;</td>
<td>11&quot;</td>
</tr>
<tr>
<td>CUT OUT SIZE</td>
<td>12&quot;</td>
<td>12&quot;</td>
</tr>
</tbody>
</table>
NOTE: FOR FIRE-RATED APPLICATIONS UP TO 45 MIN., PROVIDE FIRE-RATED GLASS.

GLASS VIEW PANEL WITH STEEL FRAME
SEE MASTER DETAIL AD-04

DOOR AS SCHEDULED

TYPICAL ELEVATION
SCALE: 3/8" = 1'-0"

GLASS SCHEDULE

<table>
<thead>
<tr>
<th>MK</th>
<th>DOOR WIDTH</th>
<th>VISIBLE LITE WIDTH</th>
<th>* GLASS ORDER WIDTH</th>
<th>** CUT-OUT WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3'-0&quot;</td>
<td>14&quot;</td>
<td>15&quot;</td>
<td>16&quot;</td>
</tr>
<tr>
<td>B</td>
<td>3'-6&quot;</td>
<td>20&quot;</td>
<td>21&quot;</td>
<td>22&quot;</td>
</tr>
<tr>
<td>C</td>
<td>3'-8&quot;</td>
<td>22&quot;</td>
<td>23&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td>D</td>
<td>4'-0&quot;</td>
<td>26&quot;</td>
<td>27&quot;</td>
<td>28&quot;</td>
</tr>
</tbody>
</table>

* GLASS ORDER HEIGHT = 34"
** CUT OUT HEIGHT = 35"
NOTE: FOR NON-RATED APPLICATIONS, PROVIDE SAFETY GLASS. FOR FIRE-RATED APPLICATIONS UP TO 90 MIN., PROVIDE FIRE-RATED GLASS.

GLASS VIEW PANEL WITH STEEL FRAME
—SEE MASTER DETAIL AD-04

DOOR AS SCHEDULED

ELEVATION VIEW
SCALE: 3/8" = 1'-0"

VISION PANEL SCHEDULE

<table>
<thead>
<tr>
<th>DOOR WIDTH</th>
<th>VISIBLE LITE</th>
<th>GLASS SIZE</th>
<th>CUT OUT FRAME/SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3'-0&quot;</td>
<td>6&quot;W x 34&quot;H</td>
<td>7&quot;W x 35&quot;H</td>
<td>8&quot;W x 36&quot;H</td>
</tr>
</tbody>
</table>

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER, SAN ANTONIO
7703 FLOYD CURL DR, SAN ANTONIO, TX, 78229
FACILITIES MANAGEMENT, 210-667-2880

PROJECT DESCRIPTION:
MASTER DETAIL
WOOD DOOR WITH VISION PANEL

W.R.No: DETAIL
DRAWN: SP
DATE: 03/23/09
CONTACT: 

SHEET NO.
AD-46

APPROVED BY: ________________________ DATE: __________
LIGHTING CONTROLS SCHEMATIC
SCALE: NOT TO SCALE

R1. MASTER SWITCH FOR ROOM TO BE LOCATED ABOVE CEILING, IC #2137.

R2. ROOM MOTION DETECTOR (AS SPECIFIED):
1. IR SENSOR, IC #2171.
2. ULTRASONIC SENSOR, IC #2170
   IN CONJUNCTION WITH POWER PACK, IC #2172.
   REFER TO WIRING SCHEMATIC FOR DETAILS.
3. DUAL TECHNOLOGY SENSOR, DT-200 OR EQUIVALENT
   IN CONJUNCTION WITH POWER PACK, IC #2172.
   REFER TO WIRING SCHEMATIC FOR DETAILS.

R3. DUAL SWITCHES TO PROVIDE 3 LIGHTING LEVELS, IC #2137.

* MOTION SENSORS IN LAB ROOM TO CONTROL ONLY OUTER
   BULBS OF FIXTURE. CENTER BULB TO BE CONTROLLED BY
   LIGHT SWITCH ONLY.

WIRING SCHEMATIC – ULTRASONIC/DT SENSOR
SCALE: NOT TO SCALE

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER, SAN ANTONIO
7703 FLOYD CURL DR, SAN ANTONIO, TX, 78229
FACILITIES MANAGEMENT, 210-867-2680

DESCRIPTION: LIGHTING MOTION SENSOR

DRAWN: BV
DATE: 9/29/03
MASTER
DETAIL NO.
E-04
TO CORRIDOR
64" MIN. TO WALL
TO CORRIDOR
58" MIN. TO COLUMN

LAG SCREWS, WASHERS AND CAP BY MFG.

EXISTING METAL STUDS IN WALL

 PROVIDE 2X WD. BLOCKING BETWEEN STUDS WHERE REQUIRED TO PROVIDE ANCHORAGE FOR DENTAL LIGHT ASSEMBLY.

JUNCTION BOX FOR ELECTRICAL CONNECTIONS

LAG SCREWS, WASHERS AND CAP BY MFG.

NOTE: THE 58" DIMENSION TO COLUMN AND 64" DIMENSION TO WALL CAN BE INCREASED BY MOVING THE DENTAL LIGHT MOUNTING BRACKET TOWARDS THE CORRIDOR WALL AS REQUIRED TO CLEAR ANY EXISTING OBSTRUCTIONS TO REMAIN.

ELEVATION DETAIL
SCALE: 1" = 1'-0"

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
711 ELMWOOD DR. BK. 18720, SAN ANTONIO, TX 78284-2767
PHYSICAL PLANT DEPARTMENT TEL. 210-597-6000

Wall Mounted Dental Light Fixture
DRAWN: RG DATE: 06/29/98

MASTER DETAIL NO. EQ-03
18"x18" ALUMINUM FLOOR ACCESS DOOR MODEL KALA WITH RECESSED TOP FOR V.C.T. ANCHOR TOP TO EXIST. WD. BLOCKING.

1'-6" DOOR OPENING
1'-5" EXISTING

ACCESS DOOR FRAME OPENING LINE.

PROVIDE HOLE IN NEW ACCESS DOOR FOR UTILITY ACCESS THRU TOP AND UTILITY COUPLING DEVICE.

SLAB DROP LINE AT UTILITY FLOOR BOX

LINE OF EXISTING 2X WOOD BLOCKING AT FLOOR.

NOTE: DO NOT ATTACH COVER TO FRAME.

PLAN DETAIL A
SCALE: 1'-1/2" = 1'-0"

18"x18" ALUMINUM FLOOR ACCESS HATCH ANCHOR TO EXISTING WOOD BLOCKING.
UTILITY COUPLING DEVICE.

1'-6"
OPENING

NEW V.C.T.
EXISTING FLOORING

SHIM ACCESS DOOR AS REQUIRED TO PROVIDE FLUSH INSTALLATION WITH EXISTING ADJACENT FLOOR SURFACE.

EXISTING 2X4 WOOD BLOCKING
UTILITY LINES

EXISTING FLOOR UTILITY BOX

SECTION DETAIL B
SCALE: 1'-1/2" = 1'-0"

FILL VOID BETWEEN NEW ACCESS PANEL AND EXISTING SLAB DROP WITH NON SHRINK GROUT.

EXISTING 2X4 WOOD BLOCKING

EXISTING SLAB LINE.

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
7700 FULTON DR. 1-STOP MAILING, TEXAS 78284-7503
PHONE HOURS: MONDAY-THURSDAY 7:30-5:30

Floor Access Hatch

DRAWN: RG  DATE: 06/30/98

MASTER DETAIL NO.
EQ-04
DENTAL TREATMENT LIGHT FIXTURE ON MOVEABLE ARM. FIXTURE FURNISHED BY DEPARTMENT AND INSTALLED BY PHYSICAL PLANT.

BULLETIN BOARD WITH NEW FABRIC FINISH.

INSTALL 1'-6" TALL CHAIRRAIL WITH PLASTIC LAMINATE FINISH.

INSTALL 4" RUBBER BASE.

INSTALL NEW 120V DUPLEX RECEPTACLE AT 45" A.F.F. TO TOP.

ELEVATION
SCALE: 3/8" = 1'-0"

X-RAY HEAD ON MOVEABLE ARM, EQUIPMENT FURNISHED BY DEPARTMENT AND INSTALLED BY PHYSICAL PLANT.
## SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>SERVICE</th>
<th>TYPE</th>
<th>SIZE</th>
<th>6Ø</th>
<th>8Ø</th>
<th>10Ø</th>
<th>12Ø</th>
<th>TITUS</th>
<th>PRICE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>SUPPLY</td>
<td>SQUARE, LOUVERED</td>
<td>24X24</td>
<td>135</td>
<td>250</td>
<td>330</td>
<td>470</td>
<td>TDC</td>
<td>AMD</td>
<td>5</td>
</tr>
<tr>
<td>B</td>
<td>SUPPLY</td>
<td>ROUND</td>
<td>Varies</td>
<td>160</td>
<td>280</td>
<td>440</td>
<td>620</td>
<td>TMR</td>
<td>RCD</td>
<td>–</td>
</tr>
<tr>
<td>C</td>
<td>SUPPLY</td>
<td>2-1” SLOT</td>
<td>48X4</td>
<td>290</td>
<td>300</td>
<td>340</td>
<td>370</td>
<td>TBD-10</td>
<td>TBD2</td>
<td>1.2</td>
</tr>
<tr>
<td>D</td>
<td>SUPPLY</td>
<td>FAN POWERED HEPA</td>
<td>24X24</td>
<td>–</td>
<td>–</td>
<td>210</td>
<td>–</td>
<td>FFDER</td>
<td>FFU</td>
<td>3.4</td>
</tr>
<tr>
<td>E</td>
<td>SUPPLY</td>
<td>FAN POWERED HEPA</td>
<td>48X24</td>
<td>–</td>
<td>–</td>
<td>350</td>
<td>470</td>
<td>FFDER</td>
<td>FFU</td>
<td>3.4</td>
</tr>
<tr>
<td>F</td>
<td>RETURN, EXHAUST</td>
<td>EGGCRATE</td>
<td>24X24</td>
<td>2500</td>
<td></td>
<td></td>
<td></td>
<td>50F</td>
<td>80</td>
<td>7</td>
</tr>
<tr>
<td>G</td>
<td>RETURN, EXHAUST</td>
<td>EGGCRATE</td>
<td>12X12</td>
<td>500</td>
<td></td>
<td></td>
<td></td>
<td>50F</td>
<td>80</td>
<td>7</td>
</tr>
<tr>
<td>H</td>
<td>SUPPLY</td>
<td>SQUARE, LOUVERED</td>
<td>12X12</td>
<td>130</td>
<td>200</td>
<td>–</td>
<td>–</td>
<td>TDC</td>
<td>AMD</td>
<td>6</td>
</tr>
<tr>
<td>J</td>
<td>SUPPLY</td>
<td>SQUARE, PLAQUE</td>
<td>24X24</td>
<td>235</td>
<td>330</td>
<td>430</td>
<td>550</td>
<td>OMNI</td>
<td>SPD</td>
<td>–</td>
</tr>
</tbody>
</table>

* – OR APPROVED EQUAL.

**GENERAL NOTES:**
1. REFER TO PLAN FOR NECK SIZE.
2. THROW DIRECTION SHOWN ON PLAN.
3. REFER TO RCP FOR CEILING TYPE PRIOR TO ORDERING.
4. PROVIDE TRANSITION FROM DUCT TO NECK SIZE AS REQUIRED.
5. REFER TO UTHSCSA MASTER DETAIL: M-01A.

**KEYED NOTES:**
1. PROVIDE FACTORY INSTALLED PATTERN CONTROL BLADES.
2. PROVIDE INSULATED PLENUM AND END CAPS.
3. 120V, 1/3HP, ROOM SIDE REMOVABLE FILTER, WITH DUCT COLLAR.
4. PROVIDE HEPA FILTERS.
5. PROVIDE ROUND NECK, 18X18 BACK PAN.
6. PROVIDE ROUND NECK.
7. WHEN SHOWN ON PLANS AS CONNECTED TO DUCTWORK, PROVIDE FULL SIZE PLENUM.
DIFFUSER DROP INSTALLATION

NO SCALE

NOTE: ALL DUCTWORK SHALL MEET THE INSULATION REQUIREMENTS OF I.E.C.C.
NOTES:
1. HANG BOX FROM STRUCTURE WITH 22 GAUGE X 1” WIDE (MINIMUM) GALVANIZED STEEL STRAPS. DO NOT HANG FROM THE BOTTOM OF STRUCTURAL BEAMS.
2. SUPPORT FLEX DUCT WITH 1-1/2” X 26 GA (MIN.) SHEETMETAL STRAPS AT A MIN. OF 4 FEET INTERVALS. SAG BETWEEN SUPPORTS SHALL NOT EXCEED 1/2”/FT BETWEEN SUPPORTS. AT LEAST 1 SUPPORT SHALL BE REQUIRED ON ALL FLEXIBLE DUCTS. TOTAL LENGTH OF FLEXIBLE DUCT RUN SHALL NOT EXCEED 7’-6”.
3. SEAL INSULATION TO MIXING BOX.
4. SEAL INSULATION JOINT BETWEEN FLEX DUCT AND MAIN DUCT INSULATION.
5. HOT AND COLD DUCTS. TYPICALLY THE SAME SIZE AS MIXING BOX INLETS. TRANSITION AS REQUIRED.
6. SUPPLY AIR DUCT. SEE PROJECT DRAWING FOR SIZE.
7. FLEX DUCT. SEE SCHEDULE BELOW.
8. SEAL ALL DUCT JOINTS AND CONNECTIONS TO STOP AIR LEAKS BEFORE INSULATING.

<table>
<thead>
<tr>
<th>MARK</th>
<th>MIXING BOX</th>
<th>FLEX DUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>6” MB</td>
<td>12500</td>
<td>12226</td>
</tr>
<tr>
<td>8” MB</td>
<td>12501</td>
<td>12228</td>
</tr>
<tr>
<td>10” MB</td>
<td>12502</td>
<td>12229</td>
</tr>
<tr>
<td>12” MB</td>
<td>12503</td>
<td>12230</td>
</tr>
</tbody>
</table>

MIXING BOX INSTALLATION DETAIL

NO SCALE
# SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>AIRFLOW (CFM)</th>
<th>IC#S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>INLET MIN MAX MIXING BOX FLEX DUCT NOTES</td>
<td></td>
</tr>
<tr>
<td>DD-4</td>
<td>4&quot;Ø 75 225 - -</td>
<td></td>
</tr>
<tr>
<td>DD-6</td>
<td>6&quot;Ø 235 400 12500 12226</td>
<td></td>
</tr>
<tr>
<td>DD-8</td>
<td>8&quot;Ø 385 750 12501 12228</td>
<td></td>
</tr>
<tr>
<td>DD-10</td>
<td>10&quot;Ø 600 1200 12502 12229</td>
<td></td>
</tr>
<tr>
<td>DD-12</td>
<td>12&quot;Ø 900 1900 12503 12230</td>
<td></td>
</tr>
</tbody>
</table>

**GENERAL NOTES:**

1. PROVIDE TITUS DEDV, PRICE DDS OR APPROVED EQUAL.
2. PROVIDE DDC CONTROLS AND 24V TRANSFORMER.
3. INLET SIZE FOR BOTH HOT AND COLD DECKS.
4. REFER TO UTHSCSA MASTER DETAILS:
   M-02 FOR INSTALLATION.
   M-06 FOR JCI METASYS CONTROLS EXTENDED ARCHITECTURE.
   M-12 FOR HONEYWELL CONTROLS. (MCDERMOTT, HAYDEN HEAD, BARSHOP)
ELEVATION

NOTES:
1. HANG BOX FROM STRUCTURE WITH 22 GAUGE X 1" WIDE (MINIMUM) GALVANIZED STEEL STRAPS. DO NOT HANG FROM THE BOTTOM OF STRUCTURAL BEAMS.
2. SUPPORT FLEX DUCT WITH SHEETMETAL STRAPS AS REQUIRED.
3. SEAL INSULATION TO MIXING BOX.
4. SEAL INSULATION JOINT BETWEEN FLEX DUCT AND MAIN DUCT INSULATION.
5. HOT AND COLD DUCTS. TYPICALLY THE SAME SIZE AS MIXING BOX INLETS. TRANSITION AS REQUIRED.
6. SUPPLY AIR DUCT. SEE PROJECT DRAWING FOR SIZE.
7. FLEX DUCT. SEE SCHEDULE BELOW.
8. SEAL ALL DUCT JOINTS AND CONNECTIONS TO STOP AIR LEAKS BEFORE INSULATING.

SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>IC#S</th>
<th>FLEX DUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; MB</td>
<td>12226</td>
<td></td>
</tr>
<tr>
<td>8&quot; MB</td>
<td>12228</td>
<td></td>
</tr>
<tr>
<td>10&quot; MB</td>
<td>12229</td>
<td></td>
</tr>
<tr>
<td>12&quot; MB</td>
<td>12230</td>
<td></td>
</tr>
</tbody>
</table>

SINGLE INLET BOX INSTALLATION DETAIL

NO SCALE
## SCHEDULE

<table>
<thead>
<tr>
<th></th>
<th>AIRFLOW (CFM)</th>
<th>IC#S</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>INLET MIN MAX</td>
<td>FLEX DUCT</td>
<td>NOTES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SD-4</td>
<td>4&quot; Ø 75 225</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SD-6</td>
<td>6&quot; Ø 235 400</td>
<td>12226</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SD-8</td>
<td>8&quot; Ø 385 750</td>
<td>12228</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SD-10</td>
<td>10&quot; Ø 600 1200</td>
<td>12229</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SD-12</td>
<td>12&quot; Ø 900 1900</td>
<td>12230</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GENERAL NOTES:**

1. PROVIDE TITUS DESV, PRICE SDV OR APPROVED EQUAL.
2. PROVIDE DDC CONTROLS AND 24V TRANSFORMER.
3. REFER TO UTHSCSA MASTER DETAILS: M-D4 FOR INSTALLATION.
DUCT BRANCH TAKE OFF

1/4 $W_m$ OR 4” MIN

BELLMOUTH TAKE-OFF

45° MAX $W_m > W_b$

MANUAL VOLUME DAMPER

BRANCH DUCT WIDTH, $W_b$

TYPICAL FOR TOP, SIDE, AND BOTTOM DUCT BRANCHES
- Splitter damper shall be the same height as the incoming duct.

- See plans for connecting duct dimensions or transition dimensions.

- Install one set of splitter damper hardware Duro Dyne item #36046 or equal.

SPLITTER DAMPER

NO SCALE
RETURN AIR TRANSFER DUCT

NO SCALE

TYPE 1
ELEVATION VIEW

TYPE 2
PLAN VIEW

TYPE 3
PLAN VIEW

TYPE 4
ELEVATION VIEW

SHEET METAL DUCT OUTSIDE.
INSIDE CLEAR DIMENSIONS AS SHOWN ON PLANS.

WALL OR PARTITION
CEILING

1" FIBERGLASS DUCT LINER

3" MIN.
6" MIN.
3" MIN.
6" MIN.
3" MIN.
1. HANGER SHALL BE OF 1–1/2” X 26 GA GALVANIZED STEEL, ROLLED TO FIT THE O.D. OF THE FLEX DUCT W/ A 1” TAB & 1 SCREW. ATTACH SUPPORT TO STRUCTURE ABOVE W/ A 1” TAB & 1 SCREW. DO NOT ATTACH TO OTHER HANGERS, PIPES, CONDUITS, ETC. UNLESS GIVEN SPECIFIC DIRECTIONS BY THE ENGINEER.

2. MAXIMUM SPACING OF SUPPORTS SHALL BE 4’–0”.

3. MAXIMUM SAG OF 1/2” PER FT. BETWEEN SUPPORTS.

4. ALL FLEX DUCT SHALL BE SUPPORTED BY A MINIMUM OF 1 HANGER.

5. PROVIDE 1 SUPPORT WITHIN 1 DIAMETER OF A DOWNWARD BEND.

6. PROVIDE 1 SUPPORT WITHIN 1 DIAMETER OF A HORIZONTAL BEND AND A SECOND HANGER WITHIN 2 FT. ON OTHER SIDE OF BEND.

7. ALL BENDS IN FLEX DUCT SHALL BE AS ROUND AS POSSIBLE AND IN NO CASE LESS THAN 90°.

8. FLEX DUCT CONNECTIONS SHALL BE MADE TO SHEETMETAL COLLARS W/ 2 WRAPS OF DUCT TAPE OVER JOINT & A STAINLESS STEEL WORM GEAR CLAMP.

9. SEAL FLEX DUCT INSULATION TO AJOINING INSULATION WITH JOINT MASTIC.
THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER, SAN ANTONIO
7703 FLOYD CURL DR, SAN ANTONIO, TX, 78229
FACILITIES MANAGEMENT, 210-567-2880

DESCRIPTION:
MIXING BOX WITH HONEYWELL CONTROLS

MIXING BOX
NO SCALE

HONEYWELL MICROCELL CONTROLLER
REMOTE MICROBRIDGE
#R7515B1057

HONEYWELL MICROCELL CONTROLLER
DOUBLE PNEUMATIC OUTPUT
#RP7515B3024–4

AK3320A OR AK3321

MICROCELL SPACE SENSOR W/LED(300 OHM) MOUNTED IN ROOM TC7515C1002–1

24 VAC 18/2

P1 P2
P1 P2 J8 J7 J11
PB PA M

C–NAP BUS 18/2

C–NAP BUS 18/2

HD

CD
WATER COIL PIPING DETAIL
NO SCALE:

AIR FLOW

PETERSEN PLUG

WATER RETURN

BALL VALVE 2" AND LESS

BUTTERFLY VALVE 2 1/2" AND LARGER

WATER SUPPLY

AUTOMATIC 2-WAY CONTROL VALVE

STRAINER

UNION OR FLANGE

CHILLED OR HOT WATER
AHU WATER COIL PIPING DETAIL

NOTES:
1. PROVIDE THERMOMETERS AND PRESSURE GAUGES PER SPECS.
2. PROVIDE BALL VALVE DRAIN VALVES AND ROUTE TO FLOOR DRAIN.
3. ROUTE AUTOMATIC AIR VENTS TO FLOOR DRAIN.

AHU CHILLED OR HOT WATER

NO SCALE
LINK-SEAL® MODULAR SEALS WITH CAST OR CORE DRILLED WALL OPENING
MANUFACTURED BY PIPELINE SEAL & INSULATOR, INC.
HOUSTON, TEXAS, U.S.A.  TEL: 800-423-2410   E-MAIL: INFO@PSIPSI.COM

ELASTOMERIC SEAL ELEMENT
LS MODEL (C, L, S-316, O, OS-316, T)

BOLT
PRESSURE PLATE

CAST / CORE DRILLED HOLE

WALL

<table>
<thead>
<tr>
<th>LS Model</th>
<th>Seal Element</th>
<th>Bolts/Nuts</th>
<th>Pressure Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>EPDM (Black)</td>
<td>Zinc Dichromate/Organic Coated Carbon Steel Bolt</td>
<td>Reinforced Nylon Polymer</td>
</tr>
<tr>
<td>L</td>
<td>EPDM (Blue)</td>
<td>Zinc Dichromate/Organic Coated Carbon Steel Bolt</td>
<td>Reinforced Nylon Polymer</td>
</tr>
<tr>
<td>O</td>
<td>Nitrile</td>
<td>Zinc Dichromate/Organic Coated Carbon Steel Bolt</td>
<td>Reinforced Nylon Polymer</td>
</tr>
<tr>
<td>T</td>
<td>Silicone</td>
<td>Zinc Dichromate/Organic Coated Carbon Steel Bolt</td>
<td>Steel Zinc Dichromate</td>
</tr>
<tr>
<td>(C,L,O)+S-316</td>
<td>(see model options)</td>
<td>316 Stainless Steel</td>
<td>Reinforced Nylon Polymer</td>
</tr>
</tbody>
</table>

Sleeve Model Description Material
CS Century-Line Sleeve HDPE
WS Steel Wall Sleeve Steel

For more Material Property Information, see literature at www.linkseal.com

PIPE PENETRATION DETAIL
NO SCALE

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER, SAN ANTONIO
7703 FLOYD CURR DR, SAN ANTONIO, TX, 78229
FACILITIES MANAGEMENT, 210-567-2880

DESCRIPTION:
PIPE PENETRATION DETAIL ("Link-Seal")
NOTE:
1. DEPTH OF TRAP MUST EXCEED BY ONE PIPE DIAMETER THE TOTAL STATIC PRESSURE OF FAN.
2. DRAIN SHALL HAVE A MINIMUM SLOPE OF 1/8"/FT SLOPE CONDESATE 1" PER 20' IN DIRECTION OF FLOW.
3. PIPE SIZE SHALL NOT BE SMALLER THAN DRAIN PAN OUTLET.
   TYPICAL CONDENSATE DRAIN SIZE:  0-20 TONS= 1",  21-40 TONS= 1-1/4"
   41-60 TONS= 1-1/2",  61-100 TONS= 2",  101-250 TONS= 3",  251 & LARGER= 4

CONDENSATE TRAP DETAIL
NO SCALE
NOTES:
1. EXISTING STEAM SUPPLY PIPING. RESTORE TO CONDITIONS PRIOR TO COIL REPLACEMENT.
2. EXISTING CONDENSATE PIPING. RESTORE TO CONDITIONS PRIOR TO COIL REPLACEMENT.
3. INSTALL PIPING TREE, VACUUM BREAKER, AND AIR VENT AS INDICATED. REFER TO SCHEDULE FOR SPECIFICATIONS.
4. ALTERNATE TREE LOCATION IF COIL HEADER TAP IN UNAVAILABLE, OR INCONVENIENT.
5. VACUUM BREAKER AND AIR VENT MUST BE INSTALLED ON THE STEAM SIDE, DOWNSTREAM OF THE CONTROL VALVE.
6. HORIZONTAL COIL IS SHOWN. VERTICAL COILS SHALL HAVE VACUUM BREAKER AND AIR VENT INSTALLED ACCORDING TO THE CONCEPT OF THIS DETAIL.

### SCHEDULE

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PRESSURE RATING (PSIG)</th>
<th>MANUFACTURER</th>
<th>MODEL#</th>
<th>INLETXOUTLET (NPT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VACUUM BREAKER</td>
<td>210</td>
<td>SPIRAX SARCO</td>
<td>VB14</td>
<td>1/2&quot;X1/8&quot;</td>
</tr>
<tr>
<td>VACUUM BREAKER</td>
<td>304</td>
<td>SPIRAX SARCO</td>
<td>VB21</td>
<td>1/2&quot;X1/8&quot;</td>
</tr>
<tr>
<td>AIR VENT</td>
<td>125</td>
<td>SPIRAX SARCO</td>
<td>T202</td>
<td>3/8&quot;X1/4&quot;</td>
</tr>
<tr>
<td>AIR VENT</td>
<td>250</td>
<td>SPIRAX SARCO</td>
<td>VS202</td>
<td>1/2&quot;X1/2&quot;</td>
</tr>
<tr>
<td>AIR VENT</td>
<td>250</td>
<td>SPIRAX SARCO</td>
<td>VS206</td>
<td>3/4&quot;X3/4&quot;</td>
</tr>
</tbody>
</table>

STEAM COIL ACCESSORIES

NO SCALE:

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER, SAN ANTONIO
7703 FLOYD CURL DR, SAN ANTONIO, TX, 78229
FACILITIES MANAGEMENT, 210-567-2880

DESCRIPTION:
REPLACEMENT STEAM COIL ACCESSORIES
MOUNT DIVERSEY EQUIPMENT #034932 OR EQUAL STEAM SAMPLE COOLER AND SAMPLING NOZZLE PER UTILITIES SUPERVISOR INSTRUCTIONS.

STEAM SAMPLE COOLER DETAIL
NO SCALE
NOTE:
1 SLOPE MAINS AND BRANCHES DOWN 1” PER 40’ IN DIRECTION OF FLOW
2 DRIp LEG MAX PIPE DIA ≤ 4” ø REGARDLESS OF MAIN DIA SIZE
3 SLOPE CONDESATE 1” PER 20’ IN DIRECTION OF FLOW

STEAM DRIP LEG PIPING DIAGRAM
NO SCALE:
NOTES:
1. Make opening 1/8" per foot larger than damper dimensions with 1/4" min reqd.
2. Sleeve gauge >= gauge of duct see schedule for minimum ga. required.
3. Damper constructed and tested per UL 555, UL labeled, 1-1/2 hour fire rating W/212°F fusible link.
4. Seal between wall and sleeve with approved fire stop material.
5. Mounting angles shall be a minimum of 1-1/2" x 1-1/2" x 16 ga., bolted with 1/4-20 bolts, 1/2" long welds, or screwed with no. 10 screws to damper frame or sleeve only (do not attach angles to wall). Use minimum of two fasteners per side, one fastener 1/2" from each corner with maximum fastener spacing of 8-1/2". Angles must overlap structure opening a minimum of 1" on the entire perimeter, including the corners.
6. Ducted installations shall have an access door on one side of the fire damper. Access door shall be labeled "Fire Damper Access", and readable from the floor.

CURTAIN TYPE FIRE DAMPER
NO SCALE:

MANUFACTURER | NOT DUCTED RECTANGULAR | DUCTED RECTANGULAR | ROUND | INTEGRAL SLEEVE
--- | --- | --- | --- | ---
GREENCHECK | DFD-150X | DFD-155 | DFD-155 TYPE CR | 165°F Fusible Link
RUSKIN | DIBD20 STYLE A | DIBD20 STYLE B | DIBD20 STYLE R |
OTHER | OR EQUAL | OR EQUAL | OR EQUAL |

STOCK

<table>
<thead>
<tr>
<th>SIZE</th>
<th>IC#</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>8402</td>
</tr>
<tr>
<td>8&quot;</td>
<td>8403</td>
</tr>
<tr>
<td>10&quot;</td>
<td>8404</td>
</tr>
</tbody>
</table>

DUCT ACCESS DOOR

<table>
<thead>
<tr>
<th>DUCT WIDTH</th>
<th>MINIMUM ACCESS DOOR SIZE</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;10&quot;</td>
<td>8&quot; x 5&quot;</td>
<td>NAIROR</td>
<td>0800</td>
<td>1</td>
</tr>
<tr>
<td>10&quot;-24&quot;</td>
<td>12&quot; x 8&quot;</td>
<td>NAIROR</td>
<td>0810</td>
<td>1</td>
</tr>
<tr>
<td>24&quot; &amp; UP</td>
<td>18&quot; x 10&quot;</td>
<td>NAIROR</td>
<td>0820</td>
<td>1</td>
</tr>
</tbody>
</table>

NOTE: 1. OR APPROVED EQUAL.
NOTES:
1. MAKE OPENING 1/8" PER FOOT LARGER THAN DAMPER DIMENSIONS WITH 1/4" MIN. REQD.
2. SLEEVE GAUGE £ GAUGE OF DUCT. SEE SCHEDULE FOR MINIMUM GA. REQUIRED.
3. DAMPER CONSTRUCTED AND TESTED PER UL 555, UL LABELED, 1-1/2 HOUR FIRE RATING W/212°F FUSIBLE LINK
4. SEAL BETWEEN WALL AND SLEEVE W/APPROVED FIRE STOP MATERIAL
5. MOUNTING ANGLES SHALL BE A MINIMUM OF 1-1/2" X 1-1/2" X 16 GA., BOLTED WITH 1/4-20 BOLTS, 1/2" LONG WELDS, OR SCREWED WITH NO. 10 SCREWS TO DAMPER FRAME OR SLEEVE ONLY (DO NOT ATTACH ANGLES TO WALL). USE MINIMUM OF TWO FASTENERS PER SIDE, ONE FASTENER 1/2" FROM EACH CORNER WITH MAXIMUM FASTENER SPACING OF 8-1/2". ANGLES MUST OVERLAP STRUCTURE OPENING A MINIMUM OF 1" ON THE ENTIRE PERIMETER, INCLUDING THE CORNERS.
6. GRILLE IS TO BE SCREWED TO 3/4" X 3/4" X 20 GA. ANGLES PROVIDED WITH DAMPER. DO NOT SCREW GRILLE TO WALL.

<table>
<thead>
<tr>
<th>MANUFACTURER</th>
<th>RECTANGULAR</th>
<th>NOTES: (ALL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSKIN</td>
<td>D—BD20 STYLE</td>
<td>INTEGRAL SLEEVE</td>
</tr>
<tr>
<td>OTHER</td>
<td>OR EQUAL</td>
<td>165 °F FUSIBLE LINK</td>
</tr>
</tbody>
</table>

FIRE DAMPER INSTALLATION DETAIL

DESCRIPTION:
GRILLE TYPE FIRE DAMPER INSTALLATION

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER, SAN ANTONIO
7703 FLOYD CURL DR, SAN ANTONIO, TX, 78229
FACILITIES MANAGEMENT, 210-567-2880

UT HEALTH SCIENCE CENTER
SAN ANTONIO

WE MAKE LIVES BETTER

DRAWN: EL
DATE: 7/28/00
M-23
FIRE DAMPER NOTES:

1. CEILING RADIATION DAMPER. RUSKIN CFD, CFD-R, OR NAILOR 0716, 0722. ALL WITH 212°F FUSIBLE LINK. MAY BE ORDERED WITH EXTENDED FRAME.
2. GRILLE OR DIFFUSER FRAME (20 GA. MINIMUM STEEL)
3. EXTEND SHEET METAL SLEEVE FROM GRILLE TO ABOVE DAMPER MOVING PARTS, OR USE EXTENDED FRAME DAMPER.
4. #8 SHEET METAL SCREW. ON RECTANGULAR DAMPERS USE TWO PER SIDE TO FASTEN GRILLE TO DAMPER, AND TWO PER SIDE TO FASTEN SHEET METAL SLEEVE TO DAMPER. ON ROUND DAMPERS USE THREE EVENLY SPACED TO FASTEN GRILLE TO DAMPER, AND USE THREE EVENLY SPACED TO FASTEN SLEEVE TO DAMPER. IN ALL CASES INSURE THAT SCREW LENGTH AND PLACEMENT DOES NOT INTERFER WITH DAMPER BLADE OPERATION.
5. EXTEND BRANCH TO MAIN DUCT. SEE MASTER DETAIL M-13 FOR TYPICAL BRANCH DUCT WITH BALANCING DAMPER. EXTENSION MAY CONSIST OF TRANSITION, ROUND FLEX (5' MAX.) OR SHEETMETAL DUCT.
6. CEILING GRID WITH 12 GA. STEEL SUPPORT WIRES.
7. INSULATE WITH 1/2" FIBERGLASS AND VAPOR SEAL ON SUPPLY AIR APPLICATIONS.
8. SUPPORT MAIN DUCT, BRANCH DUCT, AND FLEX DUCT AS REQUIRED. WEIGHT OF THESE ITEMS SHALL NOT REST ON DAMPER OR CEILING.
9. CEILING MATERIAL. SEE ARCHITECTURAL PLANS.

DIFFUSER DROP INSTALLATION
NO SCALE
EXHAUST SOUND ATTENUATOR

SECTION A

SECTION B

1/2 W

1/2 L

1/2 W

1/2 L

1/2 L

L

L

6” MIN.

COVER (SHEETMETAL)

1” DUCT LINER

DUCT (CONNECT TO EXHAUST DUCT)

SUPPORT COVER FROM DUCT AT CORNERS WITH SHEETMETAL ANGLES (4 TYP.)
NOTES

1. ONE CONTROLLER WILL HANDLE BOTH REHEAT COILS. ONLY ONE COIL SYSTEM IS SHOWN.

2. THESE CONTROLS MAY BE INSTALLED AFTER THE JC–80 REPLACEMENT.
SCHEDULE

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANGLE</td>
<td>2&quot; X 2&quot; X 1/8&quot;</td>
</tr>
<tr>
<td>MATERIAL</td>
<td>STEEL</td>
</tr>
<tr>
<td>WALL ATTACHMENT</td>
<td>3/8&quot; THRU BOLT OR WEDGE ANCHOR</td>
</tr>
<tr>
<td>DUCT ATTACHMENT</td>
<td>#10 SHEET METAL SCREWS</td>
</tr>
<tr>
<td>L</td>
<td>40&quot;</td>
</tr>
</tbody>
</table>
COIL SUPPORT DETAIL

NO SCALE:

DETAIL NOTES

R1  UNI–STRUT BEAM.
R2  ANGLE 1"X1"X1/8" ALLOW ROOM FOR FLANGED DUCT CONNECTION ON BOTH SIDES OF COIL.
R3  COIL, OR COIL PLENUM.
R4  3/8" THREADED ROD HANGER.
CHAMFERED EDGE ALL AROUND 45°
1/2" CLEAR - ALL SIDES

#4 BARS 12" O.C. BOTH WAYS

L X W

#3 BARS 12" O.C. BOTH WAYS
IMBED INTO EXISTING 1"

SEE PROJECT PLANS FOR DIMENSIONS L, W, & H.

HOUSEKEEPING PAD (TYPICAL)

SCALE: NONE
ROOF PENETRATION DETAIL

NOTES:
1. NEW ROOFING MATERIAL SHALL MATCH EXISTING ROOFING.
2. SUPPORT ELEMENT FROM BELOW AS INDICATED ELSEWHERE.
ANCHOR 2X TREATED WD. CURB TO STEEL ANGLE WITH 3/8" DIA. STUD BOLTS WITH COUNTER-SUNK NUTS & WASHERS @ 24" O.C.

2" CANT STRIP

EXTEND ROOFING UP NEW CURB & OVER EXISTING ROOFING 12" MINIMUM

EXISTING STRUCTURAL CONC. SLAB TO REMAIN

5" X 3 1/2" CONTINUOUS STEEL ANGLE ANCHOR TO EXISTING CONC. SLAB WITH EXPANSION BOLTS

1/2" PLYWOOD ON 2X4 WOOD FRAMING @ 24"O.C.

REMOVE PORTION OF EXISTING ROOFING AS REQUIRED TO ALLOW FOR NEW CONSTR.

TEMPORARY 20 GA. SHEET METAL COVER ON 20 GA. GALV. CONTINUOUS CLEATS

2X CONTINUOUS TREATED WOOD CURB

EXISTING ROOF

INFILL W/NEW INSULATION TO MATCH EXISTING

SAW CUT EXISTING FLOOR SLAB AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW DUCT

ROOF OPENING, SIZE FOR PENETRATING ELEMENT PLUS 2" SPACE ALL AROUND OR AS REQUIRED

ROOF PENETRATION DETAIL

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

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER, SAN ANTONIO
7703 FLOYD CURL DR, SAN ANTONIO, TX, 78229
FACILITIES MANAGEMENT, 210-567-2880

DESCRIPTION:
ROOF PENETRATION AT CONC. STRUCTURE

DRAWN: RG/EM
DATE: 09/10/99
MASTER DETAIL NO.
M-31
DUCT, REFER TO PLAN FOR EXACT SIZE
SURE-SEAL/BRITE-PLY LAP SEALANT @ ALL MEMBRANE TERMINATION POINTS (TYPICAL)
SURE-SEAL/BRITE-PLY SPlicing CEMENT
SURE-SEAL/BRITE-PLY UNcURED ELASTOFORM FLASHING
EXISTING ROOFING

12" Min.
6" Min.
4" Min.

ROOF PENETRATION DETAIL
NO SCALE
NOISE REDUCER DETAIL
NO SCALE

NOTES:
1. SHEET METAL DUCT.
2. 1" FIBERGLASS DUCT BOARD LINER.
3. EXISTING WALL.
4. EXISTING EXHAUST DUCT.
5. EXISTING CEILING OR STRUCTURE.
6. MATCH EXISTING DUCT SIZE.
7. PAINT TO MATCH ADJACENT, OR BACKGROUND WALLS.
8. 1" X 1" X 16 GA. ANGLE BRACKET.
9. NEW (OR EXISTING) BALANCING DAMPER.
KEYED NOTES:
1. OVERLAP NEW ROOFING MATERIAL 12" OVER EXISTING ROOF.
2. EXTEND NEW ROOFING TO TOP OF CURB AND FLASH WITH SHEET METAL.
3. FACTORY CURB DESIGNED TO MATCH FAN.
4. ROOF STRUCTURE.
5. SECURE CURB TO ROOF WITH METHOD CONSISTENT WITH ROOF STRUCTURE.
6. EXTEND DUCT FOR GRILLE INSTALLATION BELOW OBSTRUCTIONS.
7. INSTALL 34" X 34" METALAIRE CC5 GRILLE IN SIDE AND BOTTOM OF DUCT.
8. SEE MASTER DETAIL M-26 FOR WALL BRACKET SUPPORTS.
9. LINE DUCT WITH 1" FIBERGLASS DUCT BOARD, FOR A 34" X 34" INSIDE DIMENSION.
10. NEW ROOFING MATERIAL SHALL MATCH EXISTING ROOFING.
11. SEE SEPARATE DETAIL FOR ELECTRICAL POWER AND MOTOR CONTROL REQUIREMENTS.
NOTES:
1. MOUNT ADAPTER TO SANDBLASTER EXHAUST FAN DISCHARGE WITH TWO SHEETMETAL SCREWS ON EACH OF THE FOUR SIDES.
2. PROVIDE WORM GEAR HOSE CLAMP FOR FLEX HOSE CONNECTION BY OPC TECHNICIAN.
3. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATING ADAPTER.
4. FLEX HOSE END SHOULD FIT INSIDE ROUND SECTION OF ADAPTER.
5. RECTANGULAR SECTION SHOULD FIT OVER EXHAUST FAN DISCHARGE.
HOOD SHALL BE CONSTRUCTED OF 18 GAUGE METAL. REFER TO DRAWING FOR SPECIFIC METAL TYPE.

REFER TO PROJECT PLANS FOR DUCT SIZE

9"

REFER TO PROJECT PLANS FOR OPENING SIZE

ALL ENDS SHALL BE ROLL UP AND INSIDE CANOPY.

CANOPY HOOD DETAIL
NO SCALE
BIOLOGICAL SAFETY CABINET

TRANSITION AS SPECIFIED

FERNCO BOOT OR FLEXIBLE CONNECTION

GAS TIGHT DAMPER FROM B.S.C. MANUFACTURE

SASH OPENING
COPPER TUBING SUPPORT

TAPE

COPPER WIRE

TEMPERATURE SENSING BULB

1/2" HARD DRAWN COPPER TUBING SUPPORTS. ATTACH TO FRAME OF COIL SECTION

TEMPERATURE SENSING ELEMENT

LOW TEMPERATURE SAFETY SWITCH. IF COIL IS TOO LARGE FOR ONE SENSING ELEMENT, THEN TWO TEMPERATURE SAFETY SWITCHES SHALL BE USED.

COOLING COIL

FREEZESTAT MOUNTING DETAIL

NO SCALE
PARTITION TYPE PG1

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

PG1A - NOT RATED, NO SOUND INSULATION.
PG1B - NOT RATED, SOUND INSULATION.
PG1C - 1-HR. RATED, NO SOUND INSULATION.
PG1D - 1-HR. RATED, SOUND INSULATION.

LINE OF STRUCTURAL DECK ABOVE

FINISH CEILING
1 LAYER OF 5/8" G.W.B. ON BOTH SIDES

3" ACOUSTICAL INSULATION BATTs AT PARTITION TYPE PG1B & PG1D ONLY

4 7/8"

3-5/8" (22 GA.) METAL STUDS AT 16" O.C.

BASE

FLOOR LINE

ONE HOUR RATED ASSEMBLY AT PARTITION TYPE PG1C & PG1D ONLY. SEE MASTER DETAIL AF-01 FOR PARTITION CONSTRUCTION NOTES.
FINISH CLG.

CASING BEAD

1 LAYER OF 5/8" G.W.B. ON BOTH SIDES.

3" ACOUSTICAL INSULATION BATT. AT PARTITION TYPE PG2B ONLY.

3-5/8" (22 GA.) METAL STUDS AT 16" O.C.

BASE

FLOOR LINE

PARTITION TYPE PG2

SCALE: 3/4" = 1'0"

PG2A - NO SOUND INSULATION
PG2B - SOUND INSULATION
PARTITION TYPE PG3

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

PG3A - NO SOUND INSULATION
PG3B - SOUND INSULATION
PARTITION TYPE PG4

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

PG4A - NO SOUND INSULATION
PG4B - SOUND INSULATION
PARTITION CAP PER PLANS

FINISH CLG.

1 LAYER OF 5/8" G.W.B. ON BOTH SIDES.

3-5/8" (20 GA.) METAL STUDS AT 16" O.C.

BASE

FLOOR LINE

PARTITION TYPE PG5

SCALE: 3/4" = 1'-0"
CONT. TREATED 2X WOOD BLOCKING

FACE OF EXISTING MATERIAL

FINISHED CLG.

1 LAYER OF 5/8" G.W.B. GYPSUM WALL BD.

7/8" (25 GA.) METAL STUDS AT 16" O.C.

BASE

FLOOR LINE

CONT. TREATED 2X WOOD BLOCKING

PARTITION TYPE PG6

SCALE: 3/4" = 1'-0"
(ONE HOUR) FIRE ASSEMBLY RATING
FOR GYPSUM BOARD PARTITIONS

1. FLOOR AND CEILING RUNNERS — STUD WIDTH BY 1–3/8 IN. DEEP CHANNEL, GALVANIZED STEEL, ATTACHED TO FLOOR WITH SCREWS SPACED 24 IN. O.C..

2. STEEL STUDS — WIDTH AS SCHEDULED BY 1–3/8 IN. DEEP CHANNEL SECTIONS WITH 1/4 IN. LIP ON EACH FLANGE TIP.

3. BATTs AND BLANKETS — MAY OR MAY NOT BE USED IN WALLS. ANY GLASS FIBER OR MINERAL WOOL BATT MATERIAL BEARING THE U.L. CLASSIFICATION MARKING AS TO FIRE RESISTANCE, OF A THICKNESS TO COMPLETELY FILL THE STUD CAVITY.

4. 5/8 IN. X 4 FT. WIDE GYPSUM WALL BOARD BEARING THE U.L. CLASSIFICATION MARKING AS TO FIRE RESISTANCE. ATTACH WALLBOARD TO STEEL STUDS AND FLOOR AND CEILING TRACK WITH 0.127 IN. DIAMETER SELF-DRILLING, SELF TAPPING SCREWS, 1 IN. LONG SPACED 8 IN. O.C. ALONG EDGES OF BOARD AND 12 IN. O.C. IN THE FIELD OF THE BOARD. JOINTS SHALL BE ORIENTED VERTICALLY AND STAGGERED ON OPPOSITE SIDES OF THE ASSEMBLY.

5. JOINT TAPE AND COMPOUND — VINYL, DRY OR PREMIXED JOINT COMPOUND, SHALL BE APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS; PAPER TAPE, 2 IN. WIDE, SHALL BE EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.
INSTALL NEW WOOD PANELING ON 5/8" GYP. BD. ON 1/2" RESILIENT CHANNELS AT 24" O.C. VERT. MAX.

EXISTING FINISH TO REMAIN.

EXISTING STUDS TO REMAIN.

SOUND ATTENUATION INSULATION.

RESILIENT CHANNEL

SECTION
SCALE: 1 1/2" = 1'-0"
EXISTING METAL STUDS

FACE OF EXISTING WALL

RECESSED SCREWS
AT 32" O.C.
HORIZONTAL MAX.
SPACING ANCHORED
TO EXISTING STUDS.
PROVIDE PLASTIC
LAMINATE PLUGS TO
COVER SCREWS

MITER CORNERS
OF CHAIRRAIL

SECTION B

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

FACE OF EXISTING WALL

CONTINUOUS SEALANT

RECESSED SCREWS
AT 32" O.C. HORIZONTAL
MAX. SPACING ANCHORED
TO EXISTING STUDS.
PROVIDE PLASTIC LAMINATE
PLUGS TO COVER SCREWS.

CONTINUOUS SEALANT

3/4" PLYWOOD
CHAIRRAIL WITH
PLASTIC LAMINATE
FINISH.
EXISTING METAL STUDS
FACE OF EXISTING WALL

STAINLESS STEEL
ROUND HEAD SCREWS
WITH STAINLESS
STEEL WASHERS AT
32" O.C. HORIZ.
MAX. ANCHOR TO
EXISTING STUDS.

MITER CORNERS
OF CHAIRRAIL

B

PLAN DETAIL A
SCALE: 1 1/2" = 1'-0"

FACE OF EXISTING WALL
CONTINUOUS SEALANT

1/2" RADIUS

STAINLESS STEEL ROUND
HEAD SCREWS WITH
STAINLESS STEEL WASHERS
AT 32" O.C. HORIZ. MAX.
ANCHOR TO EXISTING STUDS

1/2" RADIUS
CONTINUOUS SEALANT

1X6 WOOD CHAIRRAIL
WITH RADIUSED CORNERS
AND PLASTIC LAMINATE
FINISH.

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

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
7703 FIORE-ev OF SAN ANTONIO, TX 78229-7822
MEDICAL ARTS BUILDING
TELEPHONE: 210-450-8000

Chairrail
DRAWN: RG DATE: 06/30/98
MASTER DETAIL NO. Aw-03
EXISTING METAL STUDS
FACE OF EXISTING WALL

COUNTERSUNK FLAT HEAD SCREWS
AT 32" O.C. HORIZ.
MAX. ANCHOR TO
EXISTING STUDS.
PROVIDE HARDWOOD
PLUGS TO COVER
SCREWS

MITER CORNERS
OF CHAIRRAIL

PLAN DETAIL A
SCALE: 1 1/2" = 1'-0"

FACE OF EXISTING WALL

CONTINUOUS SEALANT

1/2" RADIUS

COUNTERSUNK FLAT
HEAD SCREWS AT 32"
O.C. HORIZ. MAX. ANCHOR
TO EXISTING STUDS
PROVIDE HARDWOOD PLUGS

1/2" RADIUS

CONTINUOUS SEALANT

3/4"x6" WOOD CHAIRRAIL
WITH RADIUSED CORNERS
AND STAINED FINISH.

SECTION B
SCALE: 1 1/2" = 1'-0"
EXISTING METAL STUDS
FACE OF EXISTING WALL

COUNTERSUNK
FLAT HEAD SCREWS
AT 32" O.C. HORIZ.
MAX. ANCHOR TO
EXISTING STUDS.
PROVIDE HARDWOOD
PLUGS TO COVER
SCREWS

MITER CORNERS
OF CHAIRRAIL

PLAN DETAIL A
SCALE: 1 1/2" = 1'-0"

FACE OF EXISTING WALL

FABRIC WALL COVERING

1/2" RADIUS

COUNTERSUNK FLAT
HEAD SCREWS AT 32"
O.C. HORIZ. MAX. ANCHOR
TO EXISTING STUDS

1/2" RADIUS

FABRIC WALL COVERING

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

1 1/2"X6" WOOD CHAIRRAIL
WITH RADIUS CORNERS
AND STAINED FINISH.

SEE DETAIL C

FABRIC WALL COVERING

DETAIL C
SCALE: 6" = 1'-0"

1 1/2"X6" WOOD CHAIRRAIL
WITH RADIUS CORNERS
AND STAINED FINISH.

4" PLASTIC LAMINATE STRIP
RECESSED IN WOOD.

FACE OF EXISTING WALL

Hardwood Chairrail
DRAWN: RG/EM DATE: 10/15/01

MASTER DETAIL NO. Aw-05A
2X WOOD BLOCKING

5/8" GYPSUM WALL BOARD
(REFER TO PLANS FOR HEIGHT EXTENSION)

EXISTING SUSPENDED CEILING

EXISTING 5/8" GWB ON 3-5/8" STUD.

SUSPENDED CEILING REFER TO PLANS

DETAIL

SCALE: 3" = 1'-0"

EXTENSION OF G.W.B. PARTITION WALL (ONE SIDE ONLY)

DRAWN: ES
DATE: 12/20/99

MASTER DETAIL NO.
AW-24
3-5/8" DIAGONAL METAL STUD BRACING TO STRUCTURAL DECK ABOVE @ 8'-0" O.C. HORIZONTAL MAX. SPACING

5/8" GYPSUM WALL BOARD

5/8" GYPSUM WALL BOARD

SUSPENDED CEILING REFER TO PLANS

SUSPENDED CEILING REFER TO PLANS

EXISTING 5/8" GWB ON 3-5/8" STUD.

3-5/8" METAL STUD

DETAIL

SCALE: 3" = 1'-0"

EXTENSION OF G.W.B. PARTITION WALL (BOTH SIDES)

DRAWN: ES DATE: 12/20/99

MASTER DETAIL NO. AW-25
**PIPING LABELS**

<table>
<thead>
<tr>
<th>ABBV.</th>
<th>LABEL TEXT</th>
<th>LABEL COLOR/TEXT COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV</td>
<td>ACID VENT</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>AW</td>
<td>ACID WASTE</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>CO2</td>
<td>CARBON DIOXIDE</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>CHR</td>
<td>CHILLED WATER RETURN</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>CHS</td>
<td>CHILLED WATER SUPPLY</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>A</td>
<td>COMPRESSED AIR</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>CD</td>
<td>CONDENSATE DRAIN</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>CR</td>
<td>CONDENSATE RETURN</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>CWR</td>
<td>CONDENSER WATER RETURN</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>CWS</td>
<td>CONDENSER WATER SUPPLY</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>DI</td>
<td>DEIONIZED WATER</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>DW</td>
<td>DOMESTIC COLD WATER</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>DHW</td>
<td>DOMESTIC HOT WATER</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>DHWR</td>
<td>DOMESTIC HOT WATER RETURN</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>E-SHOWER</td>
<td>EMERGENCY SHOWER</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>F</td>
<td>FIRE PROTECTION WATER</td>
<td>RED/WHITE</td>
</tr>
<tr>
<td>FOR</td>
<td>FUEL OIL RETURN</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>FOS</td>
<td>FUEL OIL SUPPLY</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>HWR</td>
<td>HEATING WATER RETURN</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>HWS</td>
<td>HEATING WATER SUPPLY</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>ICW</td>
<td>INDUSTRIAL COOLING WATER</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>IHW</td>
<td>INDUSTRIAL HEATING WATER</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>IHWR</td>
<td>INDUSTRIAL HEATING WATER RETURN</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>IA</td>
<td>INSTRUMENT AIR</td>
<td>BLUE/WHITE</td>
</tr>
<tr>
<td>LA</td>
<td>LAB AIR</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>LV</td>
<td>LAB VACUUM</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>MA</td>
<td>MEDICAL AIR</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>MV</td>
<td>MEDICAL VACUUM</td>
<td>BLUE/WHITE</td>
</tr>
<tr>
<td>G</td>
<td>NATURAL GAS</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>N2</td>
<td>NITROGEN</td>
<td>BLUE/WHITE</td>
</tr>
<tr>
<td>N2O</td>
<td>NITROUS OXIDE</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>O2</td>
<td>OXYGEN</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>OD</td>
<td>OVERFLOW DRAIN</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>PCR</td>
<td>PUMPED CONDENSATE RETURN</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>RL</td>
<td>REFRIGERANT LIQUID</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>RS</td>
<td>REFRIGERANT SUCTION</td>
<td>YELLOW/BLACK</td>
</tr>
<tr>
<td>RO</td>
<td>REVERSE OSMOSIS WATER</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>ROR</td>
<td>REVERSE OSMOSIS WATER RETURN</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>RD</td>
<td>ROOF DRAIN</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>SS</td>
<td>SANITARY SEWER</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>V</td>
<td>SANITARY VENT</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>SW</td>
<td>SOFT WATER</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td># S</td>
<td>STEAM</td>
<td>YELLOW/BLACK</td>
</tr>
</tbody>
</table>

**GENERAL NOTES:**

1. PIPES SHALL BE LABELED ACCORDING TO THE TABLE ON THIS DETAIL.

2. LABELS SHOULD BE APPLIED CLOSE TO VALVES AND ADJACENT TO CHANGES IN DIRECTION, BRANCHES, AND WHERE PIPES PASS THROUGH WALLS OR FLOORS, AND AS FREQUENTLY AS NEEDED ALONG STRAIGHT RUNS TO PROVIDE CLEAR POSITIVE IDENTIFICATION.

3. LABELS SHALL HAVE THE FOLLOWING MINIMUM INFORMATION: FLUID BEING CONVEYED, ACCORDING TO TABLE AT LEFT, AND DIRECTION OF FLOW.

4. PIPE MARKERS SHALL BE EITHER A) PLASTIC FACTORY FABRICATED, FLEXIBLE, SEMI-RIGID PLASTIC, PREFORMED TO FIT AROUND PIPE OR PIPE COVERING, WITH PRINTED MARKINGS, OR B) FLEXIBLE, ADHESIVE BACKED VINYL WITH PRINTED MARKINGS.

5. PIPE MARKING SHOULD BE HIGHLY VISIBLE AND IN THE LINE OF VISION ACCORDING TO THE FIGURES BELOW.

6. THE TABLE BELOW INDICATES THE RECOMMENDED SIZE OF LETTERS ON LABELS.

<table>
<thead>
<tr>
<th>OUTSIDE DIAMETER OF PIPE OR COVERING</th>
<th>SIZE OF LETTERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4” TO 1-1/4”</td>
<td>1/2”</td>
</tr>
<tr>
<td>1-1/2” TO 2”</td>
<td>3/4”</td>
</tr>
<tr>
<td>2-1/2” TO 6”</td>
<td>1-1/4”</td>
</tr>
<tr>
<td>8” TO 10”</td>
<td>2-1/2”</td>
</tr>
<tr>
<td>OVER 10”</td>
<td>3-1/2”</td>
</tr>
</tbody>
</table>

**VISIBILITY OF PIPE MARKINGS**

NO SCALE

---

**THE UNIVERSITY OF TEXAS**

HEALTH SCIENCE CENTER, SAN ANTONIO
7703 FLOYD CURL DR, SAN ANTONIO, TX, 78229
FACILITIES MANAGEMENT, 210-567-2880

**DESCRIPTION:**

PIPE IDENTIFICATION DETAIL

**DRAWN:** RMc/CI  
**DATE:** 5/11/08

**MASTER DETAIL NO.:**  
P-01
PIPE CLAMP

UNISTRUT CHANNEL

SUPPORT SHIELD

WALL OR FLOOR

UNISTRUT CHANNEL

PIPE CLAMP

SUPPORT SHIELD

WALL OR FLOOR

NOTES:
1. SIZE CLAMP FOR PIPE O. D. IF UN-INSULATED, AND FOR INSULATED PIPING, SIZE FOR O. D. OF INSULATED PIPING SYSTEM.

2. IF CLAMP/SUPPORT ARE OF DIS-SIMILAR METALS, ISOLATE CLAMP FROM PIPING BY WRAPPING WITH DIELECTRIC TAPE.

3. FOR INSULATED PIPING, INSTALL 20 GA. GALVANIZED STEEL SUPPORT SHEILD BETWEEN PIPING AND UNISTRUT.

4. FOR INSULATED PIPING, INSTALL PIPE WITH ENOUGH SPACE TO THE BRACKET TO ALLOW INSULATION TO BE INSTALLED BETWEEN PIPE AND BRACKET.

PIPE SUPPORT ANCHOR

NO SCALE:
NOTES:
1. Size clamp for pipe O.D. if uninsulated, and for insulated piping.

2. If clamp/support are of dissimilar metals, isolate clamp from piping by wrapping pipe with dielectric tape.

3. For insulated piping, install 20 ga. galvanized steel support shield between piping and uninsulated.

4. For insulated piping, install pipe with enough space to the bracket to allow insulation to be installed between pipe and bracket.

DESCRIPTION: PIPE HANGER SUPPORT

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER, SAN ANTONIO
7703 FLOYD CURL DR, SAN ANTONIO, TX, 78229
FACILITIES MANAGEMENT, 210-567-2880
FIRE CAULK BETWEEN PENETRATING ELEMENT AND INSIDE OF SLEEVE

CONCRETE, CMU, BRICK WALL, OR FLOOR

20GA. GALV. STEEL SLEEVE, EXTEND BEYOND WALL 1/2 WALL THICKNESS ON BOTH SIDES

PIPE, DUCT, OR CONDUIT PENETRATING WALL OR FLOOR.

RESTORE VOIDS IN WALL WITH MORTAR AROUND SLEEVE

FIT SLEEVE SECURELY INTO OPENING, OR FILL IN WITH MORTAR.
NOTE: THIS DESIGN IS BASED ON HAWS MODEL #8122H OR #8133H

CEILING LINE

BOTTOM OF SHOWER HEAD
SPRAY PATTERN
CENTERLINE OF SHOWER HEAD

SUPPLY LINE

PULL ACTIVATOR

FACE OF WALL

TRAP PRIMER

ELEVATION
SCALE: 3/8" = 1'-0"

FINISH FLOOR LINE

82'-96" A.F.F.

5'-0" A.F.F.

4'-0" A.F.F.

3'-4"

2'-8"

PLAN VIEW
SCALE: 1" = 1'-0"

SHOWER HEAD

2'-8"

FACE OF WALL

SUPPLY LINE
PULL ACTIVATOR

MINIMUM CLEAR AREA. MARK WITH 2" WIDE VINYL TAPE 3M 471 GREEN

CENTERLINE OF SHOWER HEAD

NOTE: INSTALL FLOOR DRAIN BELOW SHOWER. INSTALL TRAP PRIMER AND CONNECT TO WATER LINE IN MECHANICAL CHASE.

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER, SAN ANTONIO
7703 FLOYD CURL DR, SAN ANTONIO, TX 78229
FACILITIES MANAGEMENT, 210-567-2880

DESCRIPTION:
ADA EMERGENCY SHOWER

DRAWN: RG/ED
DATE: 5/11/06

MASTER DETAIL NO.
P-06
NOTE: THIS DESIGN BASED ON HAWS MODEL #7260
(ALTERNATE DRAIN LOCATION BASED ON HAWS MODEL #7261)

CEILING LINE

FACE OF WALL

CENTERLINE OF RETAINER BOWL

7 1/2"

TOP OF RETAINER BOWL

3'-9" A.F.F.

FINISH FLOOR LINE

ALTERNATE DRAIN LOCATION

ELEVATION
SCALE: 3/8" = 1'-0"

MOUNTING BRACKET

DRRAIN TRAP BELOW

CENTERLINE OF RETAINER BOWL

FACE OF WALL

SUPPLY LINE

ACTIVATOR

2" WIDE TAPE AT FLOOR (SAFETY YELLOW)

PLAN VIEW
SCALE: 1" = 1'-0"

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER, SAN ANTONIO
7703 FLOYD CURL DR, SAN ANTONIO, TX, 78229
FACILITIES MANAGEMENT, 210-567-2880

DESCRIPTION:
EMERGENCY EYEWASH

DRAWN: RG
DATE: 10/22/97
MASTER DETAIL NO.
P-07
NOTE: THIS DESIGN BASED ON HAWS MODEL #7612

ELEVATION
SCALE: 3/8" = 1'-0"

PLAN VIEW
SCALE: 1" = 1'-0"

DESCRIPTION:
Emergency Eye Wash at Existing Sink

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER, SAN ANTONIO
7703 FLOYD CURL DR, SAN ANTONIO, TX, 78229
FACILITIES MANAGEMENT, 210-567-2880

DRAWN: RG
DATE: 11/19/97

MASTER DETAIL NO.
P-08
CLOSURE PANEL OR WALL SURFACE

CHROME PLATED ESCUTCHEON

1/2" 90 DEGREE STREET ELBOW, CHROME PLATED

ANGLE STOP VALVE, CHROME PLATED, 1/2" FIP X 3/8" O.D. COMPRESSION

3/8" O.D. TUBING BY EQUIPMENT MANUFACTURER

PLAN DETAIL
SCALE: HALF SIZE
DI TANK INSTALLATION NOTES:

1. PVC BALL VALVE
2. PVC CHECK VALVE IC#7653
3. PVC PRESSURE REGULATOR IC#7762
4. DI TANK, REFER TO PLANS FOR SIZE.
5. INLINE WATER PURITY TEST LIGHT IC#7911. AS REQUIRED. COORDINATE WITH ELECTRICAL TRADE TO PROVIDE A 120 VOLT OUTLET WITHIN 3 FT FOR INDICATOR LIGHT. LOCATE ABOVE CABINET TOP OR IN A NORMALLY VISIBLE LOCATION.
6. CONNECT DI WATER TO EQUIPMENT.
7. SECOND DI TANK IF DUAL SYSTEM IS REQUIRED.
8. DI FAUCET WITH LIGHT IC# 7909 IF REQUIRED. COORDINATE WITH ELECTRICAL TRADE TO PROVIDE A 120 VOLT OUTLET WITHIN 3 FT FOR INDICATOR LIGHT.
9. PROVIDE RO RETURN PIPING AS CALLED FOR ON DESIGN PLANS AND/OR AT THE END OF LONG PIPE RUNS.
10. ULTRAPURE WATER SYSTEM (IF REQUIRED) PROVIDED BY DEPARTMENT.
11. TOTALIZING FLOW METER (IF REQUIRED).

DI WATER CONVERTER SYSTEM
NO SCALE

NOTES:
1. DEPARTMENT SHALL COORDINATE WITH UTILITIES TO PROVIDE AN ANNUAL WO# FOR REPLACING DI TANKS.
2. IT IS PREFERRED THAT THE DI TANK BE LOCATED UNDER A SINK, OR IN A CABINET. IF THIS IS NOT PRACTICAL, THEN COORDINATE THE LOCATION OF THE DI TANK WITH THE DEPARTMENT AND THE SUPERINTENDENT OF UTILITIES & OPERATIONS BEFORE ACCESSORIES ARE INSTALLED.
EDSTROM INDUSTRIES
SS WALL CLAMP #1200-0802
STAND-OFF #1500-7549
ON BOTH SIDES OF EACH CONNECTION
AND ON MIN. OF 3’ CENTERS BETWEEN CONNECTIONS

EDSTROM INDUSTRIES
CPVC PIPE #1600-2501-060
5/8” O.D.

EDSTROM INDUSTRIES
45 DEG. FITTING ASSEMBLY W/ QUICK CONNECT #1500-3520

EDSTROM INDUSTRIES
SS WALL CLAMP #1200-0022
STAND-OFF #1500-7549

QUICK CONN. DETAIL
NO SCALE
NOTES:
1. ADEQUATELY SUPPORT ASSEMBLY TO WALL.
2. REFERENCE PLANS FOR PIPE SIZE.

REFER TO MASTER DETAIL AS-29 FOR SIGN DETAILS

EMERGENCY GAS SHUT-OFF VALVE

INSTALL AS CLOSE AS POSSIBLE W/O USING CLOSE NIPPLES (TYP-2 PLACES)

UNION

STL SHORT NIPPLE

PAINT ALL EXPOSED GAS PIPING YELLOW

GIACOMINI R602 GAS BALL VALVE. BRASS BODY, RUBBER SEALS, CHROME-PLATED BRASS WITH DIAMOND FINISH. 212°F MAX. TEMP., 100 PSI MAX. WORK. PRESS. REFER TO PLANS FOR SIZE.

4'-0" FROM FINISHED FLOOR (VERIFY & COORD. EXACT LOCATION WITH MILLWORK/SHELVING, ETC.)

<table>
<thead>
<tr>
<th>GAS VALVE</th>
<th>SIZE</th>
<th>IC#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3/8&quot;</td>
<td>6203</td>
</tr>
<tr>
<td></td>
<td>1/2&quot;</td>
<td>6204</td>
</tr>
<tr>
<td></td>
<td>3/4&quot;</td>
<td>6205</td>
</tr>
</tbody>
</table>
FINISH FLOOR AS INDICATED

CONCRETE

STRUCTURAL SLAB

SEDIMENT BUCKET

FLOOR DRAIN

CAST DRAIN BODY WITH SUMP

REMOVABLE GRATE (STRAINER)

WATERPROOF MEMBRANE

RUST RESISTANT BOLTS IN INTEGRAL ONE PIECE FLASHING RING

<table>
<thead>
<tr>
<th>MARK</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>PIPE SIZE</th>
<th>STRAINER SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD1</td>
<td>JOSAM</td>
<td>30002-A</td>
<td>2&quot;</td>
<td>5&quot;</td>
</tr>
<tr>
<td>FD2</td>
<td>JOSAM</td>
<td>30003-A</td>
<td>3&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>FD3</td>
<td>JOSAM</td>
<td>30004-A</td>
<td>4&quot;</td>
<td>7&quot;</td>
</tr>
</tbody>
</table>
NOTE: INSTALL PROTECTIVE INSULATION WITH JACKET ON ALL EXPOSED PIPING BELOW SINK.

SECTION

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

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER, SAN ANTONIO
7703 FLOYD CURL DR, SAN ANTONIO, TX, 78229
FACILITIES MANAGEMENT, 210-567-2880

DESCRIPTION:
ACCESSIBLE ADA SINK (PLASTER TRAP)

DRAWN: DR
DATE: 3/17/99

MASTER DETAIL NO.
P-15
Interior Door Number Sign

Scale: Half Scale

Exterior Door Number Sign

Scale: Half Scale

Room Number Sign

Scale: Half Scale

NOTE:
1. Refer to sign schedule for exact number (to replace "1.234.5")
2. Where door frame does not occur, mount sign at top of wall.

NOTE:
1. Refer to sign schedule for exact number (to replace "302-33")

NOTE:
1. Refer to sign schedule for exact number (to replace "1.234.5")
2. Mount at strike jamb of door frame.

Black plastic with 1/4" high white engraved characters.
Black Matt Plastic with 1" High White Characters, Raised 1/32" and Grade 2 Braille.

International Symbol of Accessibility Raised 1/32" Light Blue Field with White Pictograph.

Door Frame

Pictogram (Woman or Man) Raised 1/32" Light Blue Field with White Pictograph.

WOMEN

1.234.5

Room Number Sign Type AS-01

Sign Elevation
Scale: Half Scale

Women (or Men's Restroom) Permanent Room Sign

Drawn: DS  Date: 9/18/97

Master Detail No. AS-04
Maximum Occupant Load
123

NOTE: REFER TO SIGN SCHEDULE FOR EXACT NUMBER OF OCCUPANTS (TO REPLACE "123").

SIGN ELEVATION
SCALE: HALF SCALE
BLACK WATT PLASTIC WITH 1" HIGH WHITE CHARACTERS, RAISED 1/32" AND GRADE 2 BRAILLE

NOTE: 1. REFER TO SIGN SCHEDULE FOR EXACT ROOM NAME (TO REPLACE "1ST LINE" AND "2ND LINE") AND EXACT ROOM NUMBER (TO REPLACE "1.234.5")

2. MOUNT AT STRIKE JAMB OF DOOR FRAME
BLACK MATT PLASTIC WITH 1" HIGH WHITE CHARACTERS, RAISED 1/32" AND GRADE 2 BRAILLE

NOTE: 1. REFER TO SIGN SCHEDULE FOR EXACT ROOM NAME (TO REPLACE "ONE LINE") AND EXACT ROOM NUMBER (TO REPLACE "1.234.5")

2. MOUNT AT STRIKE JAMB OF DOOR FRAME

SIGN ELEVATION
SCALE: HALF SCALE
WOMEN'S LOCKER

BLACK MATT PLASTIC WITH 1" HIGH WHITE CHARACTERS, RAISED 1/32" AND GRADE 2 BRAILLE

ROOM NUMBER SIGN TYPE AS-01

1.234.5

NOTE: MOUNT AT STRIKE JAMB OF DOOR FRAME.

SIGN ELEVATION
SCALE: HALF SCALE

THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO
7700 FEBREZEN BLVD, SAN ANTONIO, TX 78229-7007
PHYSICAL PLANT ENGINEERING TEL: 210-567-2888

Women's (or Men's) Locker Sign
DRAWN: DS DATE: 9/18/97

MASTER DETAIL NO.
AS-08
No Entry/No Exit Signs

SIGN ELEVATION
SCALE: HALF SCALE

CENTERLINE OF DOOR

RED MATT PLASTIC WITH
WHITE CHARACTERS, RAISED 1/32"

A 60° TO FIN. FLR.

6 1/2"

5 1/4"

3/4"

1"

2"

3/8"

3/4"

3/4"

3/4"

3/8"

STROKE

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
7912 FUMBY AVE. SAN ANTONIO, TX 78229-7077
FAX: (210) 567-7860

DRAWN: RG
DATE: 9/3/97

MASTER DETAIL NO.
AS-09
DOOR WILL AUTOMATICALLY LOCK
NO RE-ENTRY

FOR EMERGENCY EXIT ONLY
ALARM WILL SOUND IF DOOR OPENS

RED MATT PLASTIC WITH 3/8" HIGH WHITE ENGRAVED CHARACTERS

SIGN ELEVATION
SCALE: HALF SCALE

THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO
7703 Floyd Curl Dr. San Antonio, Texas 78284-7002
PHONE: 210-567-3977

No Re-entry and Exit Only Signs
DRAWN: RG DATE: 9/3/97

MASTER DETAIL NO.
AS-10
STAIR #2
LEVEL 1
Terminates at Sub and 6th Levels

NOTE: REFER TO SIGN SCHEDULE FOR EXACT STAIR AND LEVEL NUMBERS (TO REPLACE "2", "1", "SUB" AND "6TH")

SIGN ELEVATION
SCALE: HALF SCALE

EXIT AT SUB LEVEL
Roof Access at 6th Level

NOTE: REFER TO SIGN SCHEDULE FOR EXACT LEVEL NUMBERS (TO REPLACE "1ST" AND "6TH") AND FOR DIRECTION OF ARROW.

SIGN ELEVATION
SCALE: HALF SCALE

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
THIRD FLOOR, BUILDING 32
SAN ANTONIO, TX 78284-7922
PHYSICAL REVIEW DEPARTMENT
DUE NO. 20-01-1268

Stair Access Signs

DRAWN: RG
DATE: 9/5/97

MASTER DETAIL NO.
AS-11
STAIR #3
LEVEL 1
Terminates at 1st Level

NOTE: REFER TO SIGN SCHEDULE FOR EXACT STAIR AND LEVEL NUMBERS (TO REPLACE "3", "1" AND "1ST")

EXIT AT 1ST LEVEL

NOTE: REFER TO SIGN SCHEDULE FOR EXACT LEVEL NUMBERS (TO REPLACE "1ST") AND FOR DIRECTION OF ARROW
In Case Of Fire
Elevators Are Out Of Service

Use Exit

NOTE:
1. SIGN BY LITHO/COLOR INC. DETROIT MI.
   SIGN TO BE 5"X8" MODEL NUMBER F-246
2. INSTALL SIGN ABOVE ELEVATOR CALL BUTTON

SIGN ELEVATION
SCALE: HALF SCALE

Emergency Exit Sign

DRAWN: RG DATE: 9/3/97

MASTER DETAIL NO. AS-14
ELEVATOR NUMBER SIGN
SCALE: HALF SCALE

BLACK MATT PLASTIC WITH 1" HIGH WHITE CHARACTERS, RAISED 1/32" AND GRADE 2 BRAILLE

ELEVATOR NUMBER SIGN
SCALE: HALF SCALE

1/4" HIGH CHARACTERS

FIREFIGHTERS' OPERATION PHASE II
TO OPERATE CAR: INSERT FIRE KEY AND TURN "ON" PRESS DESIRED FLOOR BUTTON
TO CANCEL FLOOR SELECTION: PRESS "CALL CANCEL" BUTTON
TO CLOSE DOOR: PRESS AND HOLD "DOOR CLOSE" BUTTON
TO OPEN DOOR: PRESS AND HOLD "DOOR OPEN" BUTTON
TO HOLD CAR AT FLOOR: WITH DOORS OPEN, TURN KEY TO "HOLD"
TO RETURN CAR TO RECALL FLOOR: WITH DOOR OPEN, TURN KEY TO "OFF"

NOTE: LOCATE ADJACENT TO FIREFIGHTERS' ELEVATOR CONTROL SWITCH IN ELEVATOR.

FIREFIGHTERS' OPERATION - PHASE II SIGN
SCALE: HALF SCALE

1/8" HIGH CHARACTERS

FIREFIGHTERS' OPERATION PHASE I
TO RECALL ELEVATORS
INSERT FIRE KEY AND TURN "ON"

NOTE: LOCATE ADJACENT TO FIREFIGHTERS' ELEVATOR CONTROL SWITCH IN CORRIDOR.

FIREFIGHTERS' OPERATION - PHASE I SIGN
SCALE: HALF SCALE
NOT FOR EMERGENCY EXIT
IN CASE OF EMERGENCY FOLLOW EXIT SIGNS

SIGN ELEVATION
SCALE: HALF SCALE

RED MATTE PLASTIC WITH 3/8" HIGH WHITE ENGRAVED CHARACTERS

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
3555 FUTS ELM DR. SAN ANTONIO, TEXAS 78284-7200
PHYSICAL PLANT DEPARTMENT
TEL: 210-567-3000

Not For Emergency Exit Sign
DRAWN: DS  DATE: 09/17/98

MASTER DETAIL NO.
AS-17
DENTAL CLINIC

DIRECTIONAL SIGN - SINGLE LINE

SCALE: HALF SCALE

DENTAL DEAN ADMIN. OFFICES

DIRECTIONAL SIGN - MULTI-LINE

SIGNS ARE FABRICATED FROM BLACK MATT PLASTIC WITH 1" HIGH WHITE CHARACTERS, RAISED 1/32".

SCALE: HALF SCALE

REFER TO MASTER DETAIL AS-20 FOR MOUNTING.
NOTES:

1. REFER TO FLOOR PLAN FOR LOCATION OF DIRECTIONAL SIGNS.

2. REFER TO SIGN SCHEDULE FOR EXACT WORDING OF SIGN AND ARROW DIRECTION.

WHITE PLASTIC 1/32" THICK

ARROW FOR DIRECTIONAL SIGN
SCALE: NO SCALE

ELEVATION SCALE: 3/8" = 1'-0"
BLACK MATT PLASTIC WITH ENGRAVED 1/2" HIGH WHITE CHARACTERS

JANE DOE

10"

1/2"

OCCUPANTS NAME AND OR TITLE SIGN ELEVATION

SCALE: HALF SCALE

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
7113 FURST CIRCLE, SAN ANTONIO, TEXAS 78284-7267
PHONE: 210-559-3000
WHITE MATT PLASTIC WITH ENGRAVED 7/16" HIGH RED CHARACTERS

ENO SMOKING ANYWHERE ON CAMPUS

ENGRAVED RED PICTOGRAPH

NO SMOKING SIGN ELEVATION

SCALE: HALF SCALE
NOTE: 1. REFER TO SIGN SCHEDULE FOR EXACT ROOM NUMBER (TO REPLACE "1.234.5")

2. MOUNT AT STRIKE JAMB OF DOOR FRAME
WALL LINE
ANCHOR BOLT
STEEL ANGLE, 1-1/2" X 1-1/2", PAINT TO MATCH WALL SURFACE
LAMINATED SIGN
THROUGH BOLT

PARTIAL ELEVATION
SCALE: 3" = 1'-0"

ANCHOR BOLT
STEEL ANGLE
LAMINATED SIGN
THROUGH BOLT
WALL LINE

SECTION "A"
SCALE: 6" = 1'-0"

Overhead Sign Mounting
DRAWN: RG DATE: 05/12/99
MASTER DETAIL NO. AS-26
CORRIDOR SECTION

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

NOTE: CENTER SIGN ABOVE CENTERLINE OF OPENING.

Overhead Sign
Mounting Location

DRAWN: RG
DATE: 05/25/99
STUDENT LOUNGE

RESERVED FOR STUDENT USE ONLY—FROM 11:00 AM TO 1:30 PM

1.2345

NOTE: 1. REFER TO SIGN SCHEDULE FOR EXACT ROOM NAME (TO REPLACE "1ST LINE" AND "2ND LINE") AND EXACT ROOM NUMBER (TO REPLACE "1.234.5")

2. MOUNT AT STRIKE JAMB OF DOOR FRAME

SIGN ELEVATION
SCALE: HALF SCALE

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
7703 FUMU BLVD, DR, SAN ANTONIO, TX 78284-5501
PHYSICAL PLANT ENGINEERING 512-332-3875

Student Lounge Sign
DRAWN: RG DATE: 01/18/00

MASTER DETAIL NO.
AS–28
RED PLASTIC WITH 1/2" HIGH WHITE ENGRAVED CHARACTERS

SIGN ELEVATION
SCALE: HALF SCALE

SIGN LOCATION
SCALE: NONE

EMERGENCY GAS SHUT-OFF VALVE

EMERGENCY GAS SHUT-OFF VALVE

EGSO

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
7703 FLOYD DOOLEY DR, SAN ANTONIO, TX 78229-3907
PHYSICAL PLANT ENGINEERING TEL: (210) 567-2300

EMERGENCY GAS SHUT-OFF SIGN
DRAWN: DV DATE: 10/23/C2

MASTER DETAIL NO.
AS-29
RED MATT PLASTIC WITH ENGRAVED 1/2" HIGH WHITE CHARACTERS

SHUT-OFF VALVE ACCESS

SIGN ELEVATION
SCALE: HALF SCALE
EMERGENCY SHOWER

RED MATTE PLASTIC WITH 1/2" HIGH WHITE ENGRAVED CHARACTERS (SAME FOR BOTH SIDES)

SIGN ELEVATION
SCALE: 1/4 SCALE

SIGN LOCATION
SCALE: NONE

Emergency Shower Sign

DRAWN: P. Mc. DATE: 10/23/02

THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO
7703 FLORES ST, SAN ANTONIO, TX 78284

MASTER DETAIL NO. AS-33
1. RAMP TO BE CONSTRUCTED WITH 3000 P.S.I. CONCRETE, REINFORCED WITH #3's AT 12" O.C. B.W.

2. PROVIDE 3/4" WIDE BY 1/4" DEEP TOOLED JOINTS AT 2–3/4" O.C. PERPENDICULAR TO SLOPE OF RAMP, EXTENDING FULL WIDTH OF CURB RAMP.

3. PROVIDE EXPANSION JOINT AT CONNECTION BETWEEN CURB RAMP AND CONCRETE WALK.

4. THE 6'-0" RAMP LENGTH IS BASED ON A STANDARD 6" HIGH CURB AT CURBS EXCEEDING THE 6" HIGH DIMENSION THE 6'-0" DIMENSION MUST BE ADJUSTED TO MAINTAIN THE 1:12 MIN. RAMP SLOPE.
BLUE BACKGROUND

4'-0"

WHITE PICTOGRAPH
W/ 3 1/2" STROKE

4'-0"

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

ACCESSIBLE PARKING PAVEMENT SIGN
DRAWN: EM DATE: 9/17/97

MASTER DETAIL NO.
S-02
1/2"x FULL DEPTH EXPANSION JOINT FILLER

CONCRETE PAVING

BREAK REINFORCING AT JOINT

SELF-LEVELING SEALANT 1/2"x 1/2"

24" LONG #4 BAR AT 8" O.C.
AT EXISTING CONDITIONS,
DRILL EXISTING CONCRETE
AND HAMMER-FIT TIGHT.
WRAP EXPOSED END WITH
30# FELT TO PREVENT BOND
WITH CONCRETE

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

TOWELED CONTROL JOINT
WITH SPACING NOT TO EXCEED
WIDTH OF WALK OR AS
NOTED ON PLANS.

1/4"

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

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
715 RIVERSIDE BLVD, BOX 2888, SAN ANTONIO, TX 78284-7107
TELEPHONE 210-567-5000

Expansion & Control Joints
At Concrete Paving
DRAWN: EM
DATE: 9/17/97

MASTER DETAIL NO.
S-03
Concrete Wheel Stop

ELEVATION
SCALE: \(\frac{3/4\text{"}}{1\text{"}}\)

SECTION A
SCALE: \(\frac{1\ 1/2\text{"}}{1\text{"}}\)
4" CONCRETE WALK REINFORCE WITH #3 BARS AT 16" O.C. EACH WAY WITH TOP AT 2% MAX. CROSS SLOPE TO DRAIN.

PROVIDE CONTROL JOINTS AT 10'-0" O.C. OR AS INDICATED ON PLANS AND EXPANSION JOINTS AT 40'-0" O.C. MAX.

TOOLED CORNER TYPICAL

FILL GRADE LINE TO 2" BELOW CONCRETE WALK

COMPACTED SAND LEVELING BED

CONCRETE WALK AT GRADE
SCALE: 1 1/2" = 1'-0"

Concrete Walk
Depressed Curb

ELEVATION/SECTION A
SCALE: 3/4" = 1'-0"

ELEVATION/SECTION B
SCALE: 3/4" = 1'-0"

ELEVATION/SECTION C
SCALE: 3/4" = 1'-0"

ELEVATION/SECTION D
SCALE: 3/4" = 1'-0"
NOTES:

1. RAMP TO BE CONSTRUCTED WITH 3000 P.S.I. CONCRETE, REINFORCED WITH #3's AT 12" O.C. B.W.

2. PROVIDE 1/4" WIDE BY 1/4" DEEP TOOLED JOINTS AT 2" O.C., PERPENDICULAR TO SLOPE OF RAMP, EXTENDING FULL WIDTH OF CURB RAMP.

3. PROVIDE EXPANSION JOINT AT CONNECTION BETWEEN CURB RAMP AND CONCRETE WALK.

4. THE 6'-0" RAMP LENGTH IS BASED ON A STANDARD 6" HIGH CURB AT CURBS EXCEEDING THE 6" HIGH DIMENSION THE 6'-0" DIMENSION MUST BE ADJUSTED TO MAINTAIN THE 1:12 MIN. RAMP SLOPE.
Drainage Swale

SECTION

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

EXISTING ASPHALT

4" MIN. GRAVEL
SEE PLANS FOR ELEVATIONS

COMPACTED EARTH

COMPACTED BASE

ASPHALT PAVING

SEE PLANS
Golf Ball Screen Support Post Footing

SECTION DETAIL
SCALE: 1" = 1'-0"

CONCRETE FOOTING
4 ANCHOR BOLTS 1 AT EACH CORNER OF BASE PLATE
FINISH GRADE

4-#4 REBARS ONE AT EACH CORNER OF FOOTING
#4 REBAR CONT. AT TOP & BOTTOM

1" CHAMFER AT CORNERS (TYP.)
CREOSOTED WOOD
UTILITY POLE TO BE
INSTALLED BY CITY
PUBLIC SERVICE

PAVING

COMPACTED
BASE

COMPACTED
SUBGRADE

SECTION DETAIL
SCALE: 1" = 1'-0"

Utility Pole

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
7703 FONTOYNE BLVD., SAN ANTONIO, TX 78284-7107
PHONE: 210-567-6800

DRAWN: R.G.  DATE: 02/20/98

MASTER
DETAIL NO.
S-16
Asphalt Paving For Heavy Use Traffic

SECTION

SCALE: 1 1/2" = 1'-0"
Steel Column Footing

24" DIAMETER CONC. FOOTING

BY WALK COVER
CONTRACTOR: STEEL TUBE COLUMN WELDED TO BASE PLATE

10"X10"X3/4" STEEL BASE PLATE WITH 4-3/4" DIA.
STEEL ANCHOR BOLTS 1 AT EACH CORNER OF PLATE.

PLAN DETAIL
SCALE: 1" = 1'-0"

6"X6"X1/4" STEEL TUBE COLUMN WELD TO BASE PLATE

SEALANT ON 1/2" COMPRESSIVE FILLER

CONCRETE PAVING

FINISH GRADE

EARTH

3" MIN. COVERAGE OF CONCRETE OVER STEEL

3/8" DIA. SPIRAL WITH EXTRA TURN AT TOP & BOTTOM

PROVIDE PRECAST CONCRETE SPACER BLOCKS AT TOP, BOTTOM & ON SIDES AT 8'-0" O.C. VERTICAL MAX.

SECTION
SCALE: 1" = 1'-0"

24" DIAMETER CONC. FOOTING

EXTEND FOOTING VERTICAL BARS TO WITHIN 3" OF TOP OF FOOTING.

NOTE: ALL WORK BY OWNER EXCEPT AS NOTED.

THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO
3500 Crenshaw Blvd., San Antonio, Texas 78284-7920

DRAWN: RG   DATE: 05/14/98

MASTER DETAIL NO. S-24
101 CURB RAMP
SCALE: 3/8" = 1'-0"

102 SECTION AT GROOVES
SCALE: 6" = 1'-0"

NOTES:

1. RAMP TO BE CONSTRUCTED WITH 3000 P.S.I. CONCRETE, REINFORCED WITH #3's AT 12" O.C. B.W.

2. PROVIDE 3/4" WIDE BY 1/4" DEEP TOOL JOINTS AT 2-3/4" O.C. PERPENDICULAR TO SLOPE OF RAMP, EXTENDING FULL WIDTH OF CURB RAMP.

3. PROVIDE EXPANSION JOINT AT CONNECTION BETWEEN CURB RAMP AND CONCRETE WALK.

4. THE 6'-0" RAMP LENGTH IS BASED ON A STANDARD 6" HIGH CURB AT CURBS EXCEEDING THE 6" HIGH DIMENSION THE 6'-0" DIMENSION MUST BE ADJUSTED TO MAINTAIN THE 1:12 MIN. RAMP SLOPE.
SPEED BUMP FORMED WITH NEW ASPHALT PAVING. ROUGH UP EXISTING PAVING TO ALLOW NEW ASPHALT TO ADHERE.

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

SEE PLANS

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

RIDGE (HIGH POINT)

10" PAINTED STRIPES (COLOR TO BE SELECTED BY DEPT.)

THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER AT SAN ANTONIO
TEXAS MEDICAL CENTER
SPEED BUMP PROJECT

S-31

DRAWN: GC
DATE: 09/26/99

MASTER DETAIL NO.
The Gordian Group created Job Order Contracting and a number of related construction procurement systems, including ezIQC®. The Gordian Group develops and supports, with in-house staff, the Contract Documents, Construction Task Catalog®, Technical Specifications and JOC Management Information System necessary for a successful JOC program. Our system is a competitively-bid construction procurement solution. Gordian combines industry leading expertise and technology with the world’s largest, most detailed, locally-priced construction task database for rapid deployment and long-term cost savings in the repair, maintenance and construction of buildings and infrastructure.