SOUTH TEXAS COLLEGE NURSING AND ALLIED HEALTH CAMPUS - CENTER FOR LEARNING EXCELLENCE CONVERSION- McAllen, Texas

STC PROJECT # 18-19-1037 100% CONSTRUCTION DOCUMENTS PACKAGE

Boultinghouse Simpson Gates ARCHITECTS
3301 N McColl Rd | McAllen, TX 78501 | P 956.630.9494 | F 956.630.2058

REGISTERED ARCHITECT ROBERT S. SIMPSON 8255 STATE OF TEXAS
01-31-19

SHEET TITLE
COVER SHEET

PROJECT NAME
NAH CAMPUS CLE CONVERSION STC PROJECT #18-19-1037

OWNER
SOUTH TEXAS COLLEGE

PROJECT ADDRESS
1101 E VERMONT McALLEN, TEXAS 78503

ISSUE DATE
JANUARY 31, 2019

PROJECT NO
1828

REVISIONS

SHEET NUMBER
COVER

PLOT STAMP 1/31/2019 9:50:55 AM

ABBREVIATIONS

SYMBOLS

&	AND
L	ANGLE
@	AT
[	CHANNEL
°	DEGREE
#	POUND or NUMBER
±	PLUS / MINUS
℄	CENTERLINE
Ø	POUND or NUMBER
≠	NOT EQUAL
/	PER

A

AB	ANCHOR BOLT
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
ACF	ARCHITECTURAL CONCRETE FINISH
ACOUS	ACOUSTICAL
ACS FLR	ACCESS FLOOR
ACS PNL	ACCESS PANEL
ACT	ACOUSTICAL CEILING TILE or ACTUAL
AD	AREA DRAIN
ADA	AMERICAN WITH DISABILITIES ACT - 1992
ADD	ADDITIONAL
ADDM	ADDENDUM
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJUSTABLE or ADJACENT
ADMIN	ADMINISTRATION
AF	ABOVE FLOOR
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
AIA	AMERICAN INSTITUTE OF ARCHITECTS
AIB	AIR INFILTRATION BARRIER
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALM	ALARM
ALT	ALTERNATE, ALTERATION
ALUM	ALUMINUM
AMP	AMPERE, AMPACITY
AMT	AMOUNT
ANCH	ANCHOR or ANCHORED
ANOD	ANODIZED
ANT	ANTENNA
AP	ACCESS PANEL
APPROX	APPROXIMATE
APRVD	APPROVED
ARCH	ARCHITECTURAL OR ARCHITECT
ASB	ASBESTOS
ASSOC	ASSOCIATION or ASSOCIATE
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AUTH	AUTHORIZED
AUTO	AUTOMATIC
AVG	AVERAGE
AWG	AMERICAN WIRE GAUGE
AWT	ACOUSTICAL WALL TREATMENT
AX	AXIS

B

B/	BOTTOM OF
B to B	BACK TO BACK
BAL	BALANCE
BAF	BAFFLE
BB	BULLETIN BOARD or BALL BEARING
BC	BROOM CLOSET
BD	BOARD
BDL	BUNDLE
BDRM	BEDROOM
BDY	BOUNDARY
BEL	BELOW
BF	BOARD FOOT or BACK FACE
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BRK	BRICK
BRG	BEARING
BRKR	BREAKER
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
BVL	BEVELED
BYD	BEYOND
BYP	BYPASS

C

C	CHANNEL
C to C	CENTER TO CENTER
CAB	CABINET
CANTIL	CANTILEVER
CAP	CAPACITY
CAT	CATALOG
CAV	CAVITY
CCT	CIRCUIT
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT
CER	CERAMIC
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CG	CORNER GUARD
CH	COAT HOOK
CHAM	CHAMFER
CHAN	CHANNEL
CHBD	CHALKBOARD
CJ	CONTROL JOINT
CL	CENTER LINE or CLEARNCE
CL	CLASS
CLG	CEILING
CLKG	CAULKING
CLO	CLOSET
CLR	CLEAR
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CND	CONDITION or CONDUIT
CNTR	CENTER or COUNTER
CO	CASED OPENING, CLEANOUT or COMPANY
COAX	COAXIAL
COL	COLUMN
COMB	COMBINATION OR COMBINED
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECT OR CONNECTED
CONSTR	CONSTRUCTION
CONT	CONTINUE OR CONTINUOUS
CONTR	CONTRACT OR CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CSK	COUNTERSUNK
CT	CERAMIC TILE
CTR	CENTER
CW	COLD WATER PIPING
CYL	CYLINDER

D

D	DEPTH OR DEEP
DB	DECIBEL
DBL	DOUBLE
DEG	DEGREE
DEM	DEMOLISH
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL OR DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DISL	DISPOSAL
DISP	DISPENSER
DIST PNL	DISTRIBUTION PANEL
DIV	DIVISION
DO	DOOR OPENING
DR	DOOR or DRAIN
DS	DOWNSPOUT or DISCONNECT SWITCH
DTL	DETAIL
DVTL	DOVETAIL
DWG	DRAWING
DWGS	DRAWINGS
DWL	DOWEL
DWTR	DUMBWAITER

E

EA	EACH
EDF	ELECTRIC DRINKING FOUNTAIN
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENTR	ENTRANCE
EPRF	EXPLOSION PROOF
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATE
EXH A	EXHAUST AIR
EXH FN	EXHAUST FAN
EXH HD	EXHAUST HOOD
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR

F

FA	FIRE ALARM
FAB	FABRIC
FABR	FABRICATE (-ED)
FB	FIRE BLANKET
FC BRK	FACE BRICK
FD	FLOOR DRAIN
FDTN	FOUNDATION
FDV	FIRE DEPARTMENT VALVE
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HOSE
FHC	FIRE HOSE CABINET
FHP	FULL HEIGHT PARTITION
FIN	FINISH
FIXT	FIXTURE
FLASH	FLASHING
FLL	FLOW LINE
FLR	FLOOR
FLR SK	FLOOR SINK
FLEX	FLEXIBLE
FLG	FLANGE
FLUOR	FLUORESCENT
FP	FIREPROOF
FRMG	FRAMING
FS	FULL SIZE
FT	FOOT OR FEET
FTG	FOOTING
FURG	FURRING
FUT	FUTURE

G

G	GAS or GIRDER
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR or GLASS BLOCK
GC	GENERAL CONTRACTOR
GEN	GENERAL or GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTED
GFI	GROUND FAULT INTERRUPTED
GFRC	GLASS FIBER REINFORCED CONCRETE
GKT	GASKET
GL	GLASS
GL BLK	GLASS BLOCK
GLZ	GLAZING or GLAZE
GOVT	GOVERNMENT
GR	GRADE
GR BM	GRADE BEAM
GRND	GROUND
GRAN	GRANITE or GRANULAR
GRTG	GRATING
GSB	GYPSUM SHEATHING BOARD
GYP	GYPSUM
GYP BD	GYPSUM BOARD

H

H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE or HANDICAP
HD	HAND DRYER
HDCP	HANDICAP
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HR	HOUR
HSG	HOUSING
HT	HEIGHT
HTR	HEATER
HVAC	HEATING, VENTILATING, & AIR COND
HVY	HEAVY
HW	HOT WATER
HWH	HOT WATER HEATER
HWS	HOT WATER SUPPLY
HYD	HYDRAULIC

I

IC	INTERRUPTING CAPACITY
ID	INSIDE DIAMETER
ILK	INTERLOCK
IN	INCH
INCAND	INCANDESCENT
INSUL	INSULATION or INSULATE (-D)
INT	INTERIOR
INTM	INTERMEDIATE
INV	INVERT
IP	IRON PIPE
IPS	IRON PIPE SIZE

J

J-BOX	JUNCTION BOX
JAN	JANITOR
JC	JANITOR'S CLOSET
JCT	JUNCTION
JF	JOINT FILLER
JST	JOIST
JT	JOINT

K

KG	KILOGRAM
KM	KILOMETER
KIT	KITCHEN
KO	KNOCK OUT
KPL	KICK PLATE
KS	KITCHEN SINK
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR

L

L	ANGLE, LEFT, LENGTH, LONG or LINE
LA	LANDSCAPE ARCHITECT
LAB	LABORATORY or LABOR
LAD	LADDER
LAM	LAMINATE(-D)
LAT	LATERAL
LAV	LAVATORY
LB	POUND (WEIGHT) or LAG BOLT
LBL	LABEL
LBR	LUMBER
LCD	LIQUID CRYSTAL DIODE
LIB	LIBRARY
LIN	LINEAR
LINO	LINOLEUM
LKR	LOCKER
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMS	LIMESTONE
LN	LENGTH
LNDG	LANDING
LOC	LOCATION
LOCS	LOCATIONS
LP	LOW PRESSURE
LPT	LOW POINT
LR	LIVING ROOM
LT	LIGHT
LTG	LIGHTING
LTL	LINTEL
LV	LOW VOLTAGE
LVR	LOUVER
LW	LIGHT WEIGHT
LWC	LIGHT WEIGHT CONCRETE

M

MAN	MANUAL
MATL	MATERIAL
MAX	MAXIMUM
MC	MEDICINE CABINET
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MID	MIDDLE
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
ML	MONOLITHIC
MO	MASONRY OPENING
MOT	MOTOR
MTD	MOUNTED
MTL	METAL
MULL	MULLION
MWK	MILLWORK

N

N	NORTH
NA	NOT APPLICABLE
NAP	NAPKIN
NAT	NATURAL
NEC	NATIONAL ELECTRICAL CODE
NEUT	NEUTRAL
NF	NEAR FACE
NI	NICKEL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NS	NEAR SIDE
NTS	NOT TO SCALE

O

O to O	OUT to OUT
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OF	OUTSIDE FACE
OFF	OFFICE
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
OPP H	OPPOSITE HAND
ORD	OVERFLOW ROOF DRAIN
ORN	ORNAMENTAL
OVFL	OVERFLOW
OW	OPEN WASTE
OZ	OUNCE

P

PART	PARTITION
PB	PUSHBUTTON
PCC	PRECAST CONCRETE
PCD	PAPER CUP DISPENSER
PED	PEDESTAL
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLWD	PLYWOOD
PNL	PANEL
PR	PAIR
PRELIM	PRELIMINARY
PRESS	PRESSURE
PRI	PRIMARY
PROJ	PROJECT
PRV	POWER ROOF VENTILATOR
PT	PAINT, POINT, or PART
PTD	PAINTED or PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PVT	PRIVATE
PWR	POWER

Q

QUAL	QUALITY
QT	QUARRY TILE or QUART
QTR	QUARTER
QTY	QUANTITY
QT	QUARRY TILE

R

R	RADIUS OR RISER
R & S	ROD & SHELF
RA	RETURN AIR or REGISTERED ARCHITECT
RADIUS	RADIUS
RADN	RADIATION
RB	RESILIENT BASE
RD	ROOF DRAIN
REC	RECESSED
REF	REFERENCE
REF	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE
REQD	REQUIRED
REV	REVISION
RH	ROOF HATCH
RM	ROOM
RO	ROUGH OPENING
RVS	REVERSE
RWL	RAIN WATER LEADER

S

SCHE	SCHEDULE
SD	SOAP DISPENSER
SDMPR	SMOKE DAMPER
SECT	SECTION
SF	SQUARE FOOT
SFTWD	SOFTWOOD
SHR	SHOWER
SHR HD	SHOWER HEAD
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SLNT	SEALANT
SLV	SLEEVE
SND	SANITARY NAPKIN DISPENSER
SN DISP	SANITARY NAPKIN DISPOSAL
SOG	SLAB ON GRADE
SP	STANDPIPE
SPEC	SPECIFICATION
SQ	SQUARE
SQ YD	SQUARE YARD
SS	SERVICE SINK
SST	STAINLESS STEEL
ST	STREET
STC	SOUND TRANSMISSION CLASSIFICATION
STD	STANDARD
STOR	STORAGE
STRUCT	STRUCTURAL
SUPVR	SUPERVISOR
SUSP	SUSPEND
SW	SWITCH
SYMM	SYMMETRICAL

T

T	TREAD
TAN	TANGENT
TD	TOWEL DISPENSER
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPERATURE
TER	TERRAZZO
T&G	TONGUE AND GROOVE
THRES	THRESHOLD
TK BD	TACKBOARD
TPH	TOILET PAPER HOLDER
TV	TELEVISION
TYP	TYPICAL

U

UC	UNDERCUT
UFD	UNDERFLOOR DUCT
UNGD	UNDERGROUND
UNFIN	UNFINISH
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITY

V

VB	VAPOR BARRIER or VINYL BASE
VCP	VITRIFIED CLAY PIPE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATE, VENTILATOR, VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VF	VINYL FABRIC
VIF	VERIFY IN THE FIELD
VIN	VINYL
VIT	VITREOUS
VLT	VAULT
VNR	VENEER
VOL	VOLUME
VP	VAPOR PROOF or VENT PIPE
VT	VINYL TILE
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING

W

W	WIDE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET OR WALL COVERING
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WH	WALL HYDRANT
WH	WATER HEATER
WP	WATERPROOFING
WS	WEATHERSTRIP
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

X

X HVY	EXTRA HEAVY
X STR	EXTRA STRONG

Y

YD	YARD
YR	YEAR

REFERENCE SYMBOLS

NORTH ARROW

REVISION NUMBER & AFFECTED AREA

ROOM NAME
— ROOM IDENTIFICATION

A 10'-00" — CEILING TYPE & HEIGHT

101A — DOOR NUMBER

RUN / RISE TYP — ROOF PITCH

A — WINDOW TYPE

1 — ACCESSORY/ PLAN/ KEY NOTE

SLOPE / X/X" PER FOOT — SLOPE ARROW

1 — MISCELLANEOUS NOTE

XX / A7.0 / XX / XX — INTERIOR ELEVATION MULTIPLE

1 — MISCELLANEOUS NOTE

PT-1 / B-1 — WALL FINISH TYPE / BASE FINISH TYPE

XX / A7.0 — INTERIOR ELEVATION SINGLE

PT-1 — MISC FINISH TYPE

F — WALL TYPE - INTERIOR

CPT-2 — FLOOR FINISH TYPE

B — WALL TYPE - EXTERIOR

℄ — CENTER LINE

— COLUMN GRID

0'-0" FINISH FLOOR — ELEVATION - VERTICAL

XX/AX.XX — SECTION DETAIL

XX / XX.XX — ENLARGED PLAN

XX / AX.XX — EXTERIOR ELEVATION

XX / AX.XX — WALL SECTION

XX / AX.XX — XX / AX.XX — BUILDING SECTION

MATERIAL INDICATIONS

BRICK OR STONE (PLAN)

BRICK (ELEVATION)

CONCRETE BLOCK (PLAN)

CONCRETE BLOCK (ELEVATION)

CONCRETE TILT-WALL (PLAN)

CONCRETE

STUCCO

STEEL

RIGID INSULATION

GYPSUM BOARD

BATT INSULATION

CERAMIC TILE

WALL (PLAN)

PLYWOOD

CLAY TILE (ELEVATION)

FINISHED WOOD

STONE

ASPHALT

GRADE EARTH

GLASS / MIRROR

GRAVEL

CONTINUOUS WOOD BLOCKING

STAMPED CONCRETE OR STONE PAVERS

DISCONTINUOUS WOOD SHIM

CODE ANALYSIS

APPLICABLE CODES
IBC2009, IMC2009, IPC2009, IFC 2009,
IECC 2015, 2012 TEXAS ACCESSIBILITY STANDARDS

OWNER/CLIENT
SOUTH TEXAS COLLEGE

SITE ADDRESS
????? RIDGE ROAD McALLEN, TEXAS

BUILDING DESCRIPTION
REMODEL / RENOVATION / TENANT FINISH OUT
REMODEL TO EXISTING BUILDING

OCCUPANCY CLASSIFICATION SEC. 310.3
GROUP B - BUSINESS

AFFECTED BUILDING AREA
OVERALL BUILDING SQUARE FOOTAGE **1,926 GSF**

BUILDING CONSTRUCTION TYPE TABLE 504
TYPE II-B: (WITH SPRINKLER)

ALLOWABLE HEIGHT & BUILDING AREAS TABLE 506.2
ALLOWABLE B OCC. SF **NOT APPLICABLE**
ALLOWABLE HEIGHT B OCC. **NOT APPLICABLE**

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS TABLE 601
TYPE II-B

PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	0
EXTERIOR	0
INTERIOR	0
NONBEARING WALLS & PARTITIONS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

OCCUPANT LOAD TABLE 1004.1.1
B OCCUP.
100 SF PER OCCUP. GROSS **1,926 SF**
BUILDING SF
OCCUPANCY CALCULATION
1,926/100=19.26 OCCUPANTS (ROUNDED UP TO 20)
TOTAL NUMBER OF OCCUPANTS 20 OCCUPANTS

EGRESS WIDTH PER OCCUPANT SERVED 1005.3.1
WITHOUT SPRINKLER SYSTEM
STAIRWAYS: **0.3" PER OCCUP.**
OTHER EGRESS COMPONENTS: **0.3"**
EGRESS WIDTH PROVIDED: **6'-0"**

EXIT ACCESS TRAVEL DISTANCE TABLE 1017.2
TRAVEL DISTANCE W/O SPRINKLER SYSTEM
B OCCUPANCY **200 FT**

MINIMUM NUMBER OF EXITS SEC. 302
MINIMUM NUMBER OF EXITS **2**
NUMBER OF EXITS PROVIDED **2**

MINIMUM NUMBER OF PLUMBING FIXTURES SEC. 2902.1
WATER CLOSETS 1 PER 25 FOR 1ST 50, 1 FOR EA. 50
LAVATORIES 1 PER 40 FOR 1ST 80, 1 PER EA 80

NUMBER OR WATER CLOSETS AND LAVATORIES REMAINS UNCHANGED.

PROJECT TEAM

ARCHITECT
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SHEET INDEX

VICINITY MAP

Boultinghouse Simpson Gates ARCHITECTS
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SHEET NUMBER
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DEMOLITION LEGEND	
	EXISTING WALLS TO BE REMOVED
	EXISTING COUNTERS AND MILLWORK TO BE REMOVED
	MILLWORK TO BE REMOVED

DEMOLITION GRAPHIC LEGEND (C4)

SCALE: NO SCALE

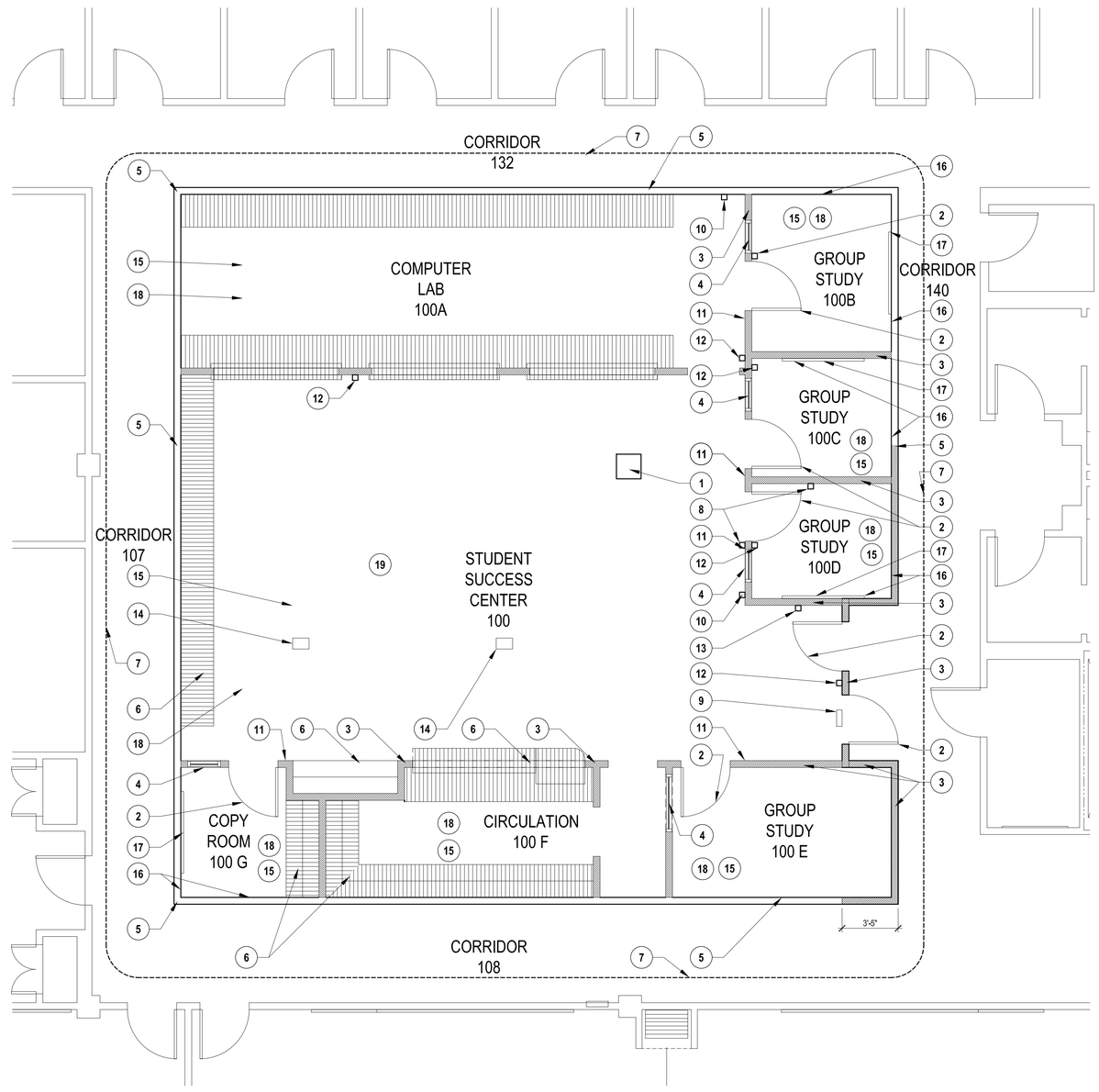
KEYED DEMOLITION PLAN NOTES

THESE NOTES APPLY ONLY TO THIS SHEET UNLESS NOTED OTHERWISE.

1	EXISTING COLUMN FURROUT TO BE REMOVED. EXISTING STRUCTURAL COLUMN TO REMAIN.
2	EXISTING WOOD DOOR AND HARDWARE TO BE SALVAGED AND RETURNED TO THE OWNER
3	EXISTING STUD WALL AND GYP BD TO BE REMOVED
4	EXISTING WINDOW AND FRAME TO BE SALVAGED AND RETURNED TO THE OWNER
5	EXISTING STUD WALL AND GYP BD TO REMAIN
6	EXISTING COUNTERTOP, STEEL COUNTERTOP SUPPORTS AND ASSOCIATED MILLWORK (AND UPPER CABINETS WHERE APPLIES) TO BE SALVAGED AND RETURNED TO THE OWNER
7	DASHED LINE REPRESENTS THE EXTENTS OF CONSTRUCTION/DEMOLITION. NO WORK SHALL EXTEND PAST THIS LINE (UNLESS OTHERWISE NOTED)
8	EXISTING HORN STROBE TO BE SALVAGED AND RETURNED TO OWNER
9	EXISTING ILLUMINATED EXIT SIGN TO BE SALVAGED AND RETURNED TO OWNER
10	EXISTING THERMOSTAT TO BE SALVAGED AND RETURNED TO OWNER
11	EXISTING SIGNAGE TO BE SALVAGED AND RETURNED TO OWNER
12	EXISTING HAND SANITIZER DISPENSER TO BE SALVAGED AND RETURNED TO OWNER
13	EXISTING WALL MOUNTED DOOR STOP TO BE SALVAGED AND RETURNED TO OWNER
14	EXISTING FLOOR BOX TO REMAIN
15	EXISTING CARPET TO BE SALVAGED AND RETURNED TO OWNER
16	EXISTING WOOD CHAIR RAIL TO BE REMOVED-REMOVE ALL WOOD CHAIR RAILING WITHIN LIMITS OF CONSTRUCTION
17	EXISTING MARKER BOARD AND TRAY TO BE SALVAGED AND RETURNED TO OWNER
18	EXISTING CEILING TILE AND GRID SYSTEM TO BE REMOVED
19	SEE MEP SHEETS FOR ADDITIONAL DEMOLITION OF MEP SYSTEMS

DEMOLITION KEYED NOTE LEGEND (A4)

SCALE: NO SCALE



DEMOLITION PLAN (A1)

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

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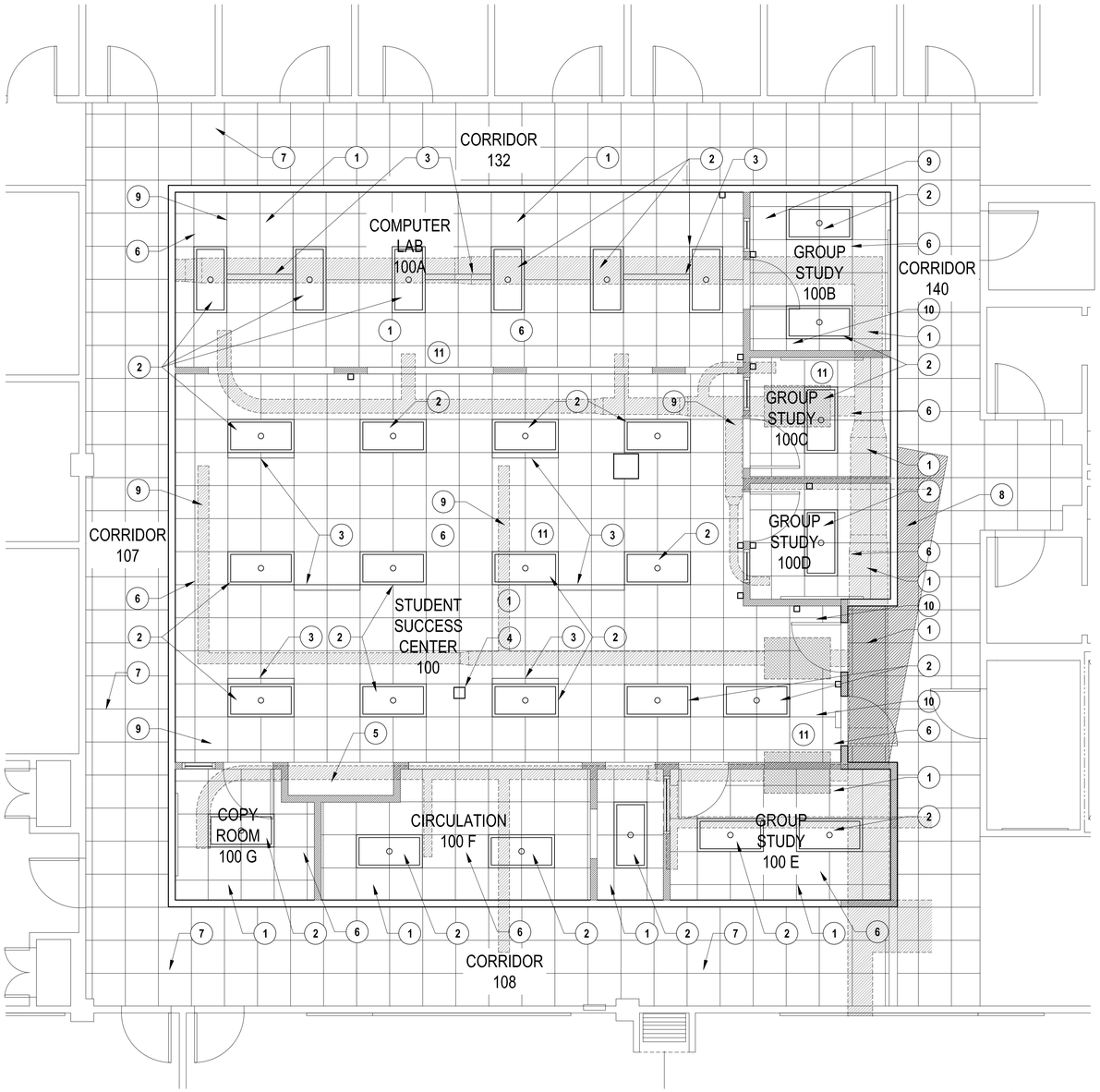

CEILING DEMOLITION PLAN
SCALE: 1/4" = 1'-0" (A1)

CEILING DEMOLITION LEGEND

- EXISTING 2X4 SUSPENDED CEILING GRID AND LAY IN ACOUSTIC TILE
- EXISTING 2X4 LIGHT FIXTURE TO BE REMOVED

CEILING DEMOLITION GRAPHIC LEGEND (B4)
SCALE: NO SCALE

KEYED CEILING DEMOLITION PLAN NOTES

THESE NOTES APPLY ONLY TO THIS SHEET UNLESS NOTED OTHERWISE.

1. EXISTING LAY IN CEILING TILE AND SUSPENDED CEILING GRID TO BE REMOVED.
2. EXISTING LIGHT FIXTURE TO BE SALVAGED AND RETURNED TO OWNER.
3. EXISTING CEILING MOUNTED SLOTTED AIR DIFFUSER TO BE SALVAGED AND RETURNED TO OWNER.
4. EXISTING CEILING MOUNTED WIFI ROUTER O BE SALVAGED AND RETURNED TO OWNER.
5. EXISTING GYP BD SOFFIT TO BE REMOVED.
6. ALL SPRINKLER HEADS TO BE CUT AND CAPPED, PREP FOR NEW CONFIGURATION SHOWN ON PROPOSED FLOOR PLAN.
7. EXISTING CEILING GRID AND LAY IN TILE TO REMAIN.
8. EXISTING CORRIDOR LAY IN CEILING TILE AND GRID SHOWN SHADED TO BE REMOVED.
9. EXISTING DUCTWORK TO REMAIN UNLESS NOTED OTHERWISE. SEE MECH. LAYOUT
10. EXISTING VAV BOXES TO REMAIN UNLESS NOTED OTHERWISE. SEE MECH. LAYOUT

CEILING DEMOLITION KEYED NOTE LEGEND (A4)
SCALE: NO SCALE

Boultinghouse Simpson Gates ARCHITECTS
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REGISTERED ARCHITECT ROBERT S. SIMPSON 8255 STATE OF TEXAS
01-31-19

SHEET TITLE
CEILING DEMOLITION PLAN

PROJECT NAME
NAH CAMPUS CLE CONVERSION STC PROJECT #18-19-1037

OWNER
SOUTH TEXAS COLLEGE

PROJECT ADDRESS
1101 E VERMONT McALLEN, TEXAS 78503

ISSUE DATE
JANUARY 31, 2019

PROJECT NO
1828

REVISIONS

SHEET NUMBER
D2.10

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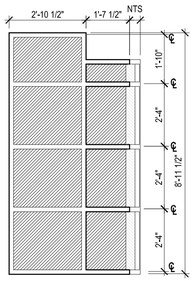
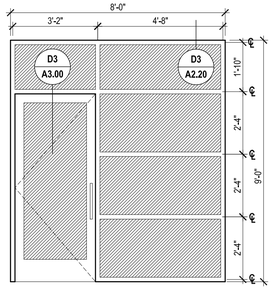
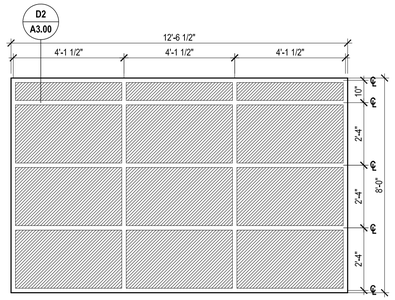


W4 SOUTH ELEVATION
2X4 CLEAR ANOD. ALUM. STOREFRONT SYSTEM ALL TEMPERED GLASS



W3 EAST ENTRY VESTIBULE - EAST ELEVATION
2X4 CLEAR ANOD. ALUM. STOREFRONT SYSTEM ALL TEMPERED GLASS



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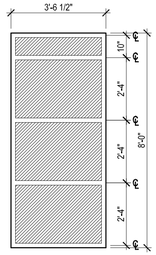
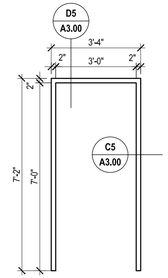
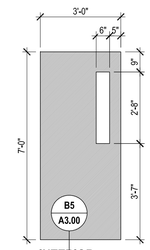
2X4 CLEAR ANOD. ALUM. STOREFRONT SYSTEM ALL TEMPERED GLASS



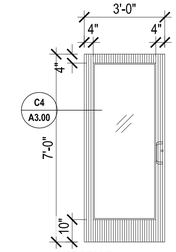
W1 EAST ENTRY VESTIBULE - EAST ELEV.
2X4 CLEAR ANOD. ALUM. STOREFRONT SYSTEM ALL TEMPERED GLASS



1 INTERIOR
PAINTED HOLLOW METAL FRAME



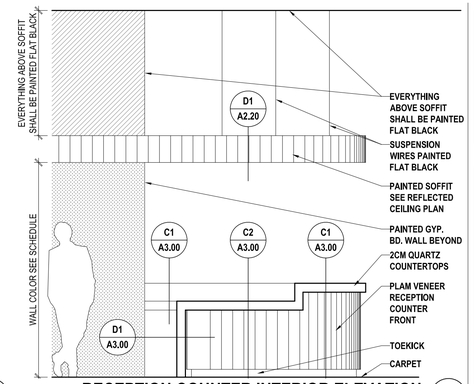
A INTERIOR
ROTARY CUT BIRCH VENEER SOLID CORE WOOD DOOR-BOOK MATCH WITH NATURAL STAIN. LITE KIT INSTALLED BY GC.



B INTERIOR
STOREFRONT CLEAR ANOD. ALUM.TEMPERED CLEAR GLAZING

DOOR, DOOR FRAME AND STOREFRONT ELEVATIONS (D2)

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



RECEPTION COUNTER INTERIOR ELEVATION (D1)

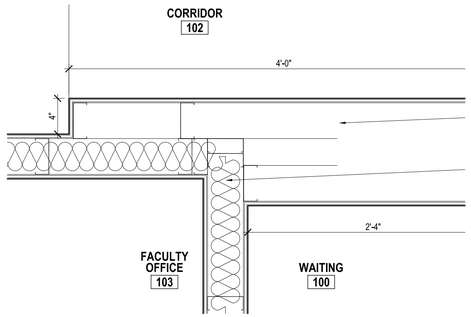
SCALE: 3/8" = 1'-0"

GENERAL NOTES

A	ALL FRAMING DIMENSIONS ARE ROUGH FRAMING DIMENSIONS UNLESS OTHERWISE NOTED
B	T/F/T/P = ALL INTERIOR GYP BD WITHIN THE SCOPE LIMITS TO BE TAPED, FLOATED, TEXTURED AND PAINTED UNLESS OTHERWISE NOTED AS PER ROOM FINISH SCHEDULES
C	ALL OUTWARD FACING GYP BD CORNERS AND EDGES SHALL CONTAIN A 1-1/2" X 1-1/2" X 5" TALL STAINLESS STEEL ANGLE CORNER GUARD SET ON TOP OF WALL BASE.
D	OWNER PROVIDED FURNITURE SHOWN FOR GENERAL LAYOUT CONCEPT PURPOSES ONLY.
E	PROVIDE SOUND BATT INSULATION AT ALL PARTITIONS BETWEEN, OFFICES & CONFERENCE ROOMS. SOUND BATT INSULATION TO GO TO DECK IF PARTITION TYPE GOES TO DECK.
F	ALL DRYWALL PARTITIONS TO DECK SHALL HAVE A DEFLECTION TRACK SLIP CONNECTION FOR DEFLECTION-OR DEFLECTION CLIPS.
G	ALL EXISTING GYP. BD. WALLS WITHIN THE SCOPE OF WORK SHALL BE REPAINTED AS PART OF THIS CONSTRUCTION PROJECT.
H	CIRCULAR TABLES, STOOL AND CHAIRS ARE NOT PART OF THIS CONTRACT AND SHALL BE PROVIDED BY THE OWNER. THEY ARE SHOWN ON THIS PLAN FOR CLARITY OF DESIGN CONCEPT.
J	ALL WALLS SHOWN ON THE PLAN WITH SOUND BATT INSULATION SHALL BE RUN TO DECK ABOVE FOR ACOUSTICAL PURPOSES.
H	ALL FURNITURE SHOWN ON PLANS SHALL BE PROVIDED AND INSTALLED BY THE OWNER.

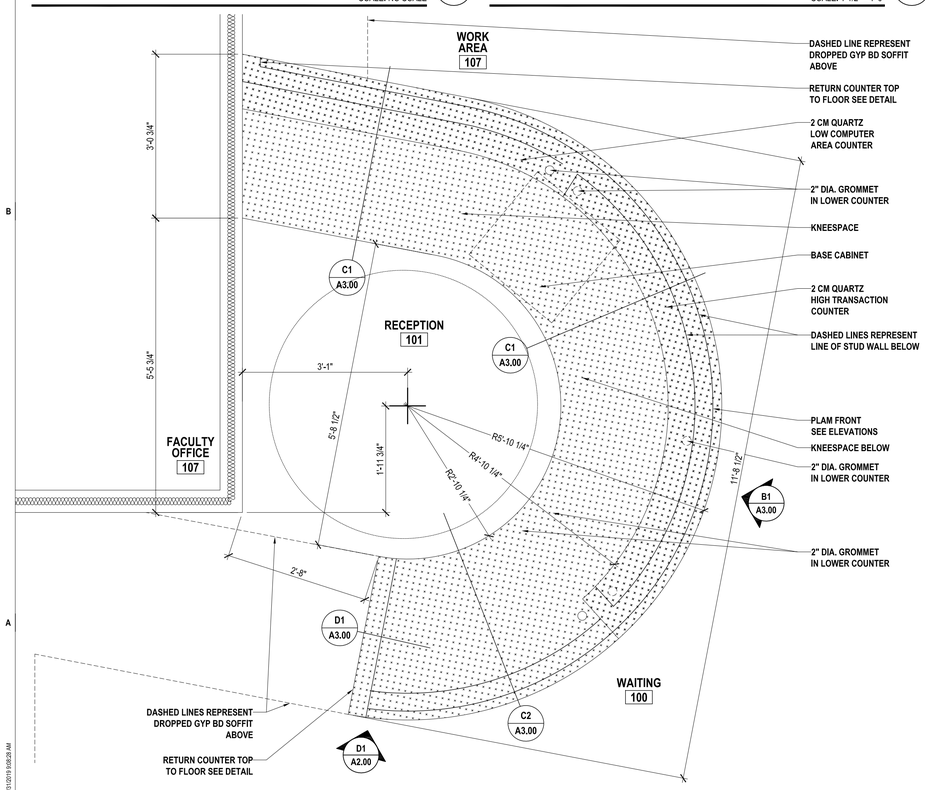
FLOOR PLAN GENERAL NOTES (C5)

SCALE: NO SCALE



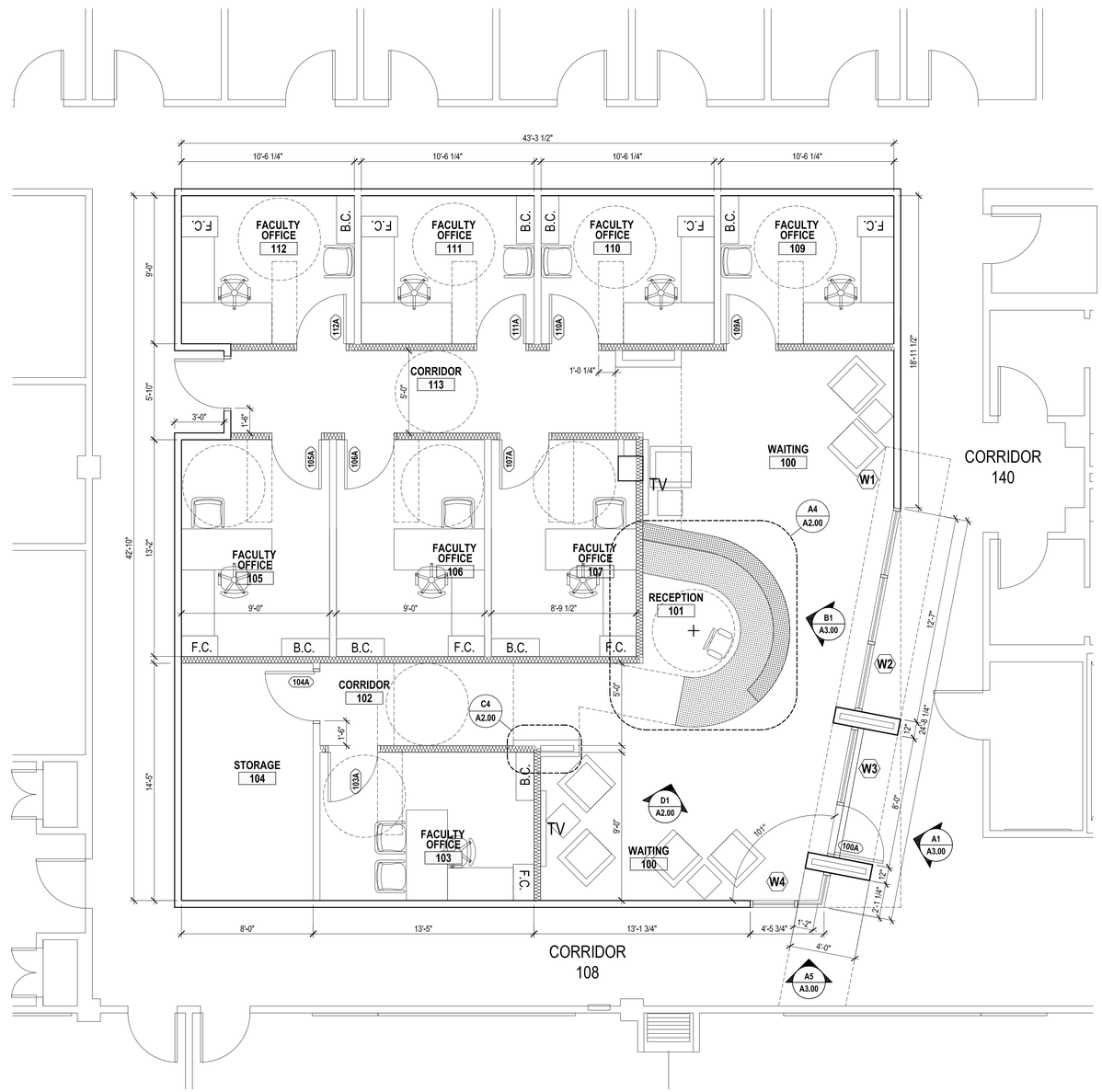
CORRIDOR FURROUT DETAIL (C4)

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



ENLARGED RECEPTION COUNTER PLAN (A4)

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



PROPOSED FLOOR PLAN (A1)

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

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PROJECT NAME
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OWNER
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PROJECT ADDRESS
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DOOR SCHEDULE

DR NO	ROOM NAME	DOOR						FRAME					HDWR SET	NOTES	RM NO
		TYPE	LEAF	WIDTH	HEIGHT	MATERIAL	FINISH	TYPE	WIDTH	HEIGHT	MATERIAL	FINISH			
100A	WAITING ROOM	?	SINGLE	3'-0"	7'-0"	ALUM.	CLEAR ANOD.	?	SEE ELEV'S	SEE ELEV'S	ALUM.	CLEAR ANOD.	1		100A
101A	NOT USED	---	---			---	---	---	---	---	---	---	--		101A
102A	NOT USED	---	---			---	---	---	---	---	---	---	--		102A
103A	FACULTY OFFICE	?	SINGLE	3'-0"	7'-0"	S.C.WOOD	STAINED	?	3'-4"	7'-2"	H.M.	PAINTED	2		103A
104A	STORAGE	?	SINGLE	3'-0"	7'-0"	S.C.WOOD	STAINED	?	3'-4"	7'-2"	H.M.	PAINTED	2		104A
105A	FACULTY OFFICE	?	SINGLE	3'-0"	7'-0"	S.C.WOOD	STAINED	?	3'-4"	7'-2"	H.M.	PAINTED	2		105A
106A	FACULTY OFFICE	?	SINGLE	3'-0"	7'-0"	S.C.WOOD	STAINED	?	3'-4"	7'-2"	H.M.	PAINTED	2		106A
107A	FACULTY OFFICE	?	SINGLE	3'-0"	7'-0"	S.C.WOOD	STAINED	?	3'-4"	7'-2"	H.M.	PAINTED	2		107A
108A	NOT USED	---	---			---	---	---	---	---	---	---	--		108A
109A	FACULTY OFFICE	?	SINGLE	3'-0"	7'-0"	S.C.WOOD	STAINED	?	3'-4"	7'-2"	H.M.	PAINTED	2		109A
110A	FACULTY OFFICE	?	SINGLE	3'-0"	7'-0"	S.C.WOOD	STAINED	?	3'-4"	7'-2"	H.M.	PAINTED	2		110A
111A	FACULTY OFFICE	?	SINGLE	3'-0"	7'-0"	S.C.WOOD	STAINED	?	3'-4"	7'-2"	H.M.	PAINTED	2		111A
112A	FACULTY OFFICE	?	SINGLE	3'-0"	7'-0"	S.C.WOOD	STAINED	?	3'-4"	7'-2"	H.M.	PAINTED	2		112A
113A	CORRIDOR	---	---	---	---	---	---	---	---	---	---	---	--		113A

DOOR SCHEDULE (D1)
SCALE: NO SCALE

ROOM FINISH SCHEDULE

RM NO	ROOM NAME	FLOOR	BASE	WALLS				NOTES	RM NO
				NORTH	EAST	SOUTH	WEST		
100	WAITING	CPT-1	B-1	PT-?	PT-?	PT-?	PT-?		100
101	RECEPTION	CPT-1	B-1	PT-?	PT-?	PT-?	PT-?		101
102	CORRIDOR	CPT-1	B-1	PT-?	PT-?	PT-?	PT-?		102
103	FACULTY OFFICE	CPT-2	B-1	PT-?	PT-?	PT-?	PT-?		103
104	FACULTY OFFICE	CPT-2	B-1	PT-?	PT-?	PT-?	PT-?		104
105	FACULTY OFFICE	CPT-2	B-1	PT-?	PT-?	PT-?	PT-?		105
106	FACULTY OFFICE	CPT-2	B-1	PT-?	PT-?	PT-?	PT-?		106
107	FACULTY OFFICE	CPT-2	B-1	PT-?	PT-?	PT-?	PT-?		107
108	COMPUTER AREA	CPT-2	B-1	PT-?	PT-?	PT-?	PT-?		108
109	FACULTY OFFICE	CPT-2	B-1	PT-2	PT-1	PT-1	PT-1		109
110	FACULTY OFFICE	CPT-2	B-1	PT-2	PT-1	PT-1	PT-1		110
111	FACULTY OFFICE	CPT-2	B-1	PT-2	PT-1	PT-1	PT-1		111
112	FACULTY OFFICE	CPT-2	B-1	PT-2	PT-1	PT-1	PT-1		112
113	CORRIDOR	CPT-1	B-1	PT-1	---	PT-1	PT-1		113

ROOM FINISH SCHEDULE (C4)
SCALE: NO SCALE

FINISH LEGEND

F	FLOOR
CPT-1	MODULAR CARPET 1- MANNINGTON 20 OZ MODULAR CARPET WITH INFINITY MODULAR BACKING
CPT-2	MODULAR CARPET 2- MANNINGTON 20 OZ MODULAR CARPET WITH INFINITY MODULAR BACKING
B	**BASE**
B-1	RUBBER BASE 1- MANNINGTON 4" X 1/8" RUBBER BASE- BARK 904
W	**WALLS**
PT-1	PAINT COLOR 1-PPG HOURGLASS 1022-1 (FIELD COLOR)
PT-2	PAINT COLOR 2-PPG BLACK MAGIC PPG1001-7 (ALL EXPOSED CEILING AND ABOVE CEILING EQUIPMENT, ETC.)
AW-1	ACCENT WALL PAINT 1- SHERWIN WILLIAMS HUMOROUS GREEN SW6918
AW-2	ACCENT WALL PAINT 2- PPG UP IN SMOKE PPG-1010-6
CG	1.5 X 1.5 X 5'-0" TALL STAINLESS STEEL CORNER GUARDS-BOTTOM OF GUARD INSTALLED AT TOP OF BASE-GLUE AND SCREW
	COUNTERS
CTR-1	CAESARSTONE-?????-POLISHED FINISH
CTR-2	CAESARSTONE- CONCRETE-POLISHED FINISH
CTR-3	WILSONART PLASTIC LAMINATE-ISLAND D498-60
CTR-4	FORMICA PLASTIC LAMINATE-MOUSE 9289-58-MATTE FINISH

ROOM FINISH SCHEDULE (B4)
SCALE: NO SCALE

FLOOR FINISH GENERAL NOTES

1	ALL GLAZING SHALL BE TEMPERED UNLESS NOTED OTHERWISE
2	ALL HOLLOW METAL DOORS & FRAMES TO BE WELDED AND PAINTED. GRIND ALL EXPOSED WELDS; SMOOTH PRIOR TO APPLYING FINAL FINISH. COLOR TO BE SELECTED BY OWNER..
3	ROUGH OPENING OF FRAME SHALL BE 4" MINIMUM FROM ADJACENT WALL U.N.O. AND SHALL HAVE DOOR STOPS.
4	DUE TO MULTIPLE USE, SOME DETAILS ARE REVERSED AND / OR ROTATED FROM DIRECTION SHOWN ON FLOOR PLAN. THE INTENT OF THE DETAILS SHOULD BE FOLLOWED. NOTIFY ARCHITECT OF ANY QUESTIONS AFFECTING CONSTRUCTION.
5	ALL ALUMINUM DOORS AND FRAMES TO BE CLEAR ANODIZED FINISH
6	EXISTING SLAB SHALL BE PREPPED ACCORDING TO THE PROPOSED FLOORING MANUFACTURER'S RECOMMENDATIONS.
7	USE SELF LEVELING UNDERLAYMENT TO LEVEL OUT SLAB TO 1/8" PER 10'-0" MAX. WHERE REQUIRED.
8	ALL GYP BD CORNERS AND EDGES TO BE METAL EDGE BEAD.
9	PROVIDE SOUND BATT INSULATION AT ALL PARTITIONS BETWEEN RESTROOMS, OFFICES & CONFERENCE ROOMS. SOUND BATT INSULATION TO GO TO DECK IF PARTITION TYPE GOES TO DECK.
9	ALL DRYWALL PARTITIONS TO DECK SHALL HAVE A DEFLECTION TRACK SLIP CONNECTION FOR DEFLECTION-OR DEFLECTION CLIPS.

FLOOR FINISH GENERAL NOTES (A5)
SCALE: NO SCALE

FINISH LEGEND

FLOOR KEY	FLOORING MATERIAL	FLOORING HATCH
##-#	FLOOR FINISH	
RM NM ###	ROOM NAME AND NUMBER	
CG	3" x 3" x 1/8" (5'-0" TALL) STAINLESS STEEL ANGLE CORNER GUARDS - MOUNT BOTTOM ON TOP OF FLOOR BASE	
VCT-1	VINYL COMPOSITION TILE	
CPT-1	MODULAR CARPET 1-PRICE GROUP 1	
CPT-2	MODULAR CARPET 2-PROCE GROUP 2	

PROPOSED FLOOR FINISH LEGEND (A4)
SCALE: NO SCALE

PROPOSED FLOOR FINISH PLAN (A1)
SCALE: 1/4" = 1'-0"

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SECTION 08 71 00 - FINISH HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

Hardware for swinging, sliding, and folding doors except special types of unique and non-matching hardware specified in other sections.

1.02 RELATED WORK

A. Section 08 11 13 – Hollow Metal Doors and Frames
B. Section 08 21 11 – Plain Wood Doors
C. Section 08 36 13 – Overhead Sectional Doors
D. Section 08 43 13 – Metal Framed Storefronts
E. Section 08 71 13 – Automatic Operators
F. Division 26 – Electrical

1.03 REFERENCES

A. ADA - Americans with Disabilities Act of 1990 Including Accessibility Guidelines as amended by the D.O.J. September 15, 2010, as adopted by the Authority Having Jurisdiction (AHJ).
B. ANSI A117.1 - Buildings and Facilities - Providing Accessibility and Usability for Physically Handicapped People.
C. ANSI/BHMA A156 (1 through .21)
D. ANSI/DHI – A115.G Installation Guide for Doors and Hardware.
E. FEMA P-361 – Safe Rooms for Tornados and Hurricanes.
F. NFPA 80 - Fire Doors and Windows.
G. NFPA 101 – Life Safety Code
H. IBC - International Building Code, as adopted by public Authority Having Jurisdiction (AHJ).
I. State and local Rules and Regulations for Barrier Free Facilities, as adopted by AHJ.

1.04 DOOR HARDWARE TYPES

A. Types of finish hardware required include, but is not necessarily limited to, the following:
1. Pivot sets and intermediate pivots.
2. Hinges.
3. Lock cylinders.
4. Keys, keying, and key control.
5. Locksets, latchsets, and privacy sets.
6. Exit devices.
7. Closers.
8. Mullions.
9. Overhead, wall, and floor stops.
10. Protection plates.
11. Gasketing for exterior and interior doors, as required.
12. Door holders.
13. Door bottoms.
14. Thresholds.
15. Sweeps.
B. Requirements for design, grade, function, finish, size and other distinctive qualities of each type of door hardware is indicated elsewhere in this section or in the Door Hardware Schedule at the end of this section. Refer to Part 2 Products for Manufacturer's identification and allowable substitutions.

1.05 SUBMITTALS

A. Under provisions of Section 01 34 00, submit the following:
1. Product information: Manufacturer's published technical product data for all specified door hardware items indicating compliance with the requirements.
2. Hardware Schedule:
a. Hardware schedules are intended for the Contractor's coordination of the work. Review and acceptance by the Architect or Owner does not relieve the Contractor of his exclusive responsibility to fulfill the requirements as shown and specified.
b. Submit hardware schedule in the manner and format as specified, complying with the actual construction progress schedule requirements for each draft. Include the following information:
1) Explanation of all abbreviations, symbols, codes, at the like, including door handing.
2) Type, style, function, size, and finish of each hardware item.
3) Door and frame sizes and materials cross referenced to the Architect's marks in the door schedule.
4) Room identification (name and number) on each side of door opening as indicated on the drawings.
5) Product name, model number, description, and name of manufacturer of each item.
6) Fasterings and other pertinent information.
7) Locations of hardware cross referenced to architectural floor plans and door schedules.
8) Mounting heights and locations of each type of hardware.
3. Key Schedule:
a. Require a qualified representative of the hardware supplier to personally meet with the Owner and Architect to obtain the Owner's written key requirements.
b. Include a separate key schedule, showing clearly how the Owner's Instructions on keying of locks has been fulfilled.
c. Verify with the owner, prior to bid, the existing level of the Sargent key system and adjust cylinder types accordingly.
4. Samples: Upon request, submit actual material samples of items indicated as for color selection.
5. Templates: Hardware supplier will furnish hardware templates to the Contractor for each fabricator of doors, frames, and other work to be shop prepared or factory prepared for the installation of hardware. Upon request deliver such templates and advise of such other work, to conform that adequate provisions are made for proper location and installation of hardware.
6. Provide operational operation instructions sheets including product schematics, point to point diagrams, and electrical requirements of all electrified hardware. Completely coordinate with the general contractor, electrical engineer, electrician, security access subcontractor and the installer. Operational descriptions are for demonstration only – verify operational intent with the owner, architect and electrical engineer.
B. Under provisions of Section 01 70 00, submit the following:
1. Product information.
2. Hardware schedule.
3. Manufacturer's published operation and maintenance data. Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
4. Tools and extra materials as required.
5. Manufacturer's warranties, revise to meet criteria as established within this section. Warranty periods shall commence upon acceptance of the building by the owner. Where warranties listed exceed the manufacturer's standard warranty, obtain in writing an extended warranty to meet the requirements above and as noted. If the manufacturer will not meet

these requirements, and another approved manufacturer will comply, supply the alternate approved manufacturer.

1.06 QUALITY ASSURANCE

A. Acceptable Designs:
1. Items specified in this section are products which are of acceptable design.
2. Do not substitute products without Architect's written prior approval per Section 01 60 00. Requests for approval shall be submitted by factory authorized distributor firms representing the products proposed for substitution. Items that are noted to allow no substitution are matching existing materials and the owner's material inventory for servicing the facility.
B. Qualifications:
1. Manufacturer: Manufacturers named in Part 2 of this section with not less than 5 years experience in manufacturing commercial door hardware of the type indicated.
2. Hardware Supplier:
a. A recognized architectural finish hardware supplier who has been furnishing hardware in the same area as the project for a period of not less than 5 years.
b. Hardware supplier's organization shall include an experienced Architectural Hardware Consultant (AHC), certified by the Door and Hardware Institute (DHI), who is physically available, at reasonable times during the course of the work, for consultation about project's hardware requirements, to Owner, Architect and Contractor. Mail or telephone correspondence is not acceptable.
c. Hardware supplier shall have local warehousing facilities and shall maintain an adequate parts inventory of items supplied for future service to the owner. Supplier will be a factory authorized distributor of all hardware specified.
3. Installer: Company specializing in installing work of this section with not less than 5 years experience and acceptable to the manufacturers and the hardware supplier. Maintain regular work force of qualified personnel, trained, skilled, and experienced in installing door hardware and consistent, competent supervision per the requirements of the General Contractor. The hardware installer shall meet with the representatives of the General Contractor and hardware supplier to jointly inventory all hardware items. Upon satisfactory inventory of products, the hardware installer accepts responsibility for all hardware items inventoried.
C. Regulatory and Operational Requirements:
1. Provide hardware for all openings, whether specified or not, in compliance with NFPA Standard No. 80, proper operation and local building code requirements. Where required, provide only hardware which has been tested and listed by UL or FM for types and sizes of doors required and complies with requirements of door and door frame labels. Label hardware, as required, for compliance with pressure testing criteria as dictated in IBC.
2. Provide hardware which meets or exceeds handicap accessibility per local building code requirements. Conform to the Americans with Disabilities Act (ADA) of 1990 as amended by the D.O.J. September 15, 2010, as adopted by the Authority Having Jurisdiction (AHJ).

1.07 DELIVERY, STORAGE, HANDLING, AND PROTECTION

A. Deliver, store, handle, and protect products to project site under provisions of Section 01 60 00 and as specified herein.
B. Require hardware supplier to:
1. Tag each item or package separately, with identification related to final hardware schedule.
2. Include manufacturer's basic installation instructions with each item or package.
3. As material is received by hardware supplier from various manufacturers, sort and repackage in containers with each item clearly marked with appropriate opening numbers to match the approved hardware schedule. Two or more identical items may be packed in the same container.

4. Deliver individually packaged hardware items at the proper times to the proper locations (shop or project site) for installation.
5. Inventory hardware jointly with representatives of the General Contractor, hardware supplier and the hardware installer until each is satisfied that count is correct. Refer to paragraph 1.6-b-3.
C. Protect hardware from theft by cataloging and storing in a secure and lockable area. Control the handling and installation of hardware items which are not immediately replaceable, so that the completion of the work will not be delayed by hardware losses, both before and after installation. Replace lost, missing, damaged, or stolen door hardware items at no additional cost to the Owner as required to meet schedule requirements.

1.08 SEQUENCING AND SCHEDULING

A. Coordinate work of this section with the work of other sections of work under provisions of Section 01 04 00
B. Furnish hardware templates to each fabricator of doors, frames, and other work to be shop or factory prepared for the installation of hardware.
C. Verify completeness and suitability of door hardware with the hardware supplier and the hardware installer.

1.09 MAINTENANCE MATERIALS

A. Under provisions of Section 01 70 00, furnish to Owner a complete set of special wrenches and tools applicable to each different or special hardware component as needed for Owner's continued adjustment, maintenance, removal, and replacement of door hardware.
B. Special tools and accessories shall be supplied by the hardware component manufacturer.

PART 2 PRODUCTS

2.01 MATERIALS AND FABRICATION

A. General:
1. Provide all door hardware for complete work, in accordance with the drawings and as specified herein.
2. Quantities listed, in any instance, are for the Contractor's convenience only and are not guaranteed.
3. Provide items and quantities not specifically mentioned to ensure a proper and complete operational installation. Match the quality and finish of items specified.
4. Provide miscellaneous hardware as listed in hardware groups.
B. Hand of door: Drawings show direction of slide, swing or hand of each door leaf. Door schedule indicates door and frame sizes, materials, required fire ratings, and other pertinent information. For finish each item of hardware for proper installation and operation of door movement as indicated.
C. Where required, provide the manufacturer's standard Molex quick connect wiring system.
D. Manufacturer's Name Plate: Do not use manufacturer's products which have manufacturer's name or trade name displayed in a visible location (except removable name plates), except in conjunction with required UL or FM labels and as otherwise acceptable to the Architect. Manufacturer's identification will be permitted on rim of lock cylinders and latch faceplates only.
E. Base Metals: Produce hardware units of basic metal and forming method indicated, using manufacturer's standard metal alloy, composition, temper and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware units by applicable ANSI A156 series standard for each type hardware item and with ANSI A156.18 for finish designations indicated. Do not furnish "optional" materials or forming methods for those indicated, except as otherwise specified.

F. Fasteners: Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation. Do not provide hardware which has been prepared for self-tapping sheet metal screws, except as specifically indicated.
1. Screws: Furnish screws for installation, with each hardware item. Provide Phillips flat head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or, if exposed in surfaces of other work, to match finishes of such other work as closely as possible, including "prepared for paint" in surfaces to receive painted finish.
2. Concealed Fasteners: Provide concealed fasteners for hardware units which are exposed when door is closed, except to extent no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work, except where it is not feasible to adequately reinforce the work. In such cases, provide sleeves for each thru-bolt or use sex screw fasteners.

2.02 HINGES

A. Manufacturer:
1. Listed in Door Hardware Schedule: Stanley
2. Approved Substitutions: Hager, Ives, Bommer
B. Templates: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template produced units.
C. Screws: Furnish Phillips flat head or machine screws for installation of units, except furnish Phillips flat head or wood screws for installation of units into wood. Finish screw heads to match surface of hinges.
D. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
1. Steel Hinges: Steel pins.
2. Non-ferrous Hinges: Stainless steel pins.
3. Exterior doors: Non-removable pins.
4. Reverse bevel interior doors (lockable): Non-removable pins.
5. Interior doors: Non-rising pins.
E. Pin Tips: Flat button and matching plug, finished to match leaves.
F. Number of Hinges: Provide number of hinges indicated, but not less than 3 hinges per door leaf for doors 90" or less in height and one additional hinge for each 30" of additional height.
G. Butt type hinges and continuous hinges are to be warranted for a period of two years.

2.03 LOCK CYLINDERS

A. Manufacturer:
1. Listed in Door Hardware Schedule: Schlage LFIC
2. Approved Substitutions: Best Patented SFIC
B. Equip locks with 6-pin cylinders for small large interchangeable core pin tumbler inserts with brass construction cores for use during the construction phases. Temporary construction cores shall be removed upon installation of the permanent key system by the owner and returned to the hardware supplier.
C. Construct lock cylinder parts from brass/bronze, stainless steel, or nickel silver.

2.04 KEYS, KEYING, AND KEY CONTROL

A. Keys:
1. Material: Provide keys of nickel silver only.
2. Quantities: These quantities are to establish a maximum allowable quantity of cut keys to service the project and may not necessarily be assigned as noted. A lesser quantity of cut keys required will not result in any credits, nor a quantity of uncut keys to be issued unless noted otherwise.

a. 3 change keys per each cylinder unit.
b. 6 master keys per master key level.
c. 2 control keys
d. 2 construction control keys
e. 10 construction keys.
3. Deliver keys to the Owner's representative: Send masterkeys to the Owner via U.S. registered mail direct from hardware supplier or manufacturer.
B. Keying:
1. General: Finish Hardware Supplier shall meet in person with owner 8 months prior to occupancy to finalize keying requirements prior to the locks and exit devices being ordered for the project. During keying meeting all hardware functions should be reviewed with the owner to finalize lock and exit device functions. During Keying Meeting obtain Letter of Authorization, Face Sheet and Signature Card required.
2. Comply with Owner's written instructions for masterkeying and, except as otherwise indicated, provide individual change keys for each lock which is not designated to be keyed alike with a group of related locks.
3. Grandmaster key all cylinder items to coordinate with the Owner's Instructions. Allow for expansion. Permanently inscribe each key with the notation "DO NOT DUPLICATE".

2.05 LOCKSETS, LATCHSETS, AND PRIVACY SETS:

A. Manufacturer:
1. Listed in Door Hardware Schedule: Schlage ND Series
2. Approved Substitutions: Best 9K Series
B. Types: Locksets, latchsets, and privacy sets as indicated in Door Hardware Schedule.
C. Strikes: Provide manufacturer's standard wrought box strike for each latch or lock bolt. Provide dust-proof strikes for foot bolts, except where not available. At these locations, provide manufacturer's standard recessed strike. Provide roller type strikes where recommended by lock, latch or bolt manufacturer. If aluminum frames are specified, confirm with the aluminum frame supplier that the standard lock strikes will function. Provide the manufacturer's standard extended lip strikes if required.
D. Lock Throw: Provide 3/4" minimum throw of mortise type latches and deadbolts used. Cylindrical latches will be 1/2" minimum. Comply with UL requirements for throw of bolts and latch bolts on rated fire openings.
E. Levers shall be cast solid brass, bronze or stainless steel. Wrought hollow levers are not acceptable.
F. Locks and latches shall be warranted for a period of five years.

2.06 CLOSERS:

A. Manufacturer:
1. Listed in Door Hardware Schedule: LCN 4040 XP DEL Series
2. Approved Substitutions: Stanley CQC 100 Series.
B. Size of Units: Except as otherwise specifically indicated, comply with the manufacturer's recommendations for size of door control unit, depending on the size of the door, exposure to weather and anticipated frequency of use.
C. Provide manufacturer's standard through bolt attachment where door construction is not adequate for support.
D. Arms:
1. Provide parallel arms for all overhead closers, except as otherwise indicated. Provide drop plates as needed to prevent glazing interference.
E. Mount all closers to the maximum allowable degree of opening by the closer manufacturer's template. Where closer arms incorporate dead stop features, mount closers to the maximum degree of opening available before conflict with adjacent structures. If not apparent on the

contract documents, verify the use of open space with the Architect or Owner's Representative to determine the minimum allowable degree of opening.
F. Access Free Manual Closers: Where manual closers are indicated for doors required to be accessible to the physically handicapped, provide adjustable units complying with ANSI A117.1 provisions for door opening force. Fire protection has precedence over handicap compatibility, check with local jurisdiction.
G. Closers shall be cast iron.
H. Provide closers with the manufacturer's standard adjustable delayed closing feature.
I. Door closers and related hardware shall be warranted for a period of twenty-five years. Electronic closers shall be warranted for a period of two years.

2.07 WALL AND FLOOR STOPS

A. Manufacturers:
1. Listed in Door Hardware Schedule: Trimco
2. Approved Substitutions: Ives, Rockwood
B. General: Except as otherwise indicated, provide stops (wall, floor or overhead) at each leaf of every swinging door leaf.

2.08 GASKETS AND SWEEPS

A. Manufacturer:
1. Listed in Door Hardware Schedule: National Guard
2. Approved Substitutions: Zero, Pemko
B. General: Except as otherwise indicated, provide continuous weatherstripping at each edge of every exterior door leaf. Provide type, sizes and profiles indicated as drawn or scheduled.
C. Fasteners: Provide non-corrosive fasteners as recommended by the manufacturer for applications indicated.
D. Replaceable seal strips: Provide only those units where resilient or flexible seal strip is easily replaceable and readily available from stocks maintained by the manufacturer.
E. Perimeter weatherstripping: Flexible, hollow neoprene bulb or loop insert, conforming to MIL R 6055, Class II, Grade 40.
F. Weatherstripping at Door Bottoms: Provide door bottoms consisting of contact type resilient insert and metal housing of design and size indicated.
G. Hot smoke seal: If required by IBC and subsequent UL testing procedures, will be supplied as an integral part of the door assembly by the door manufacturer.
H. Gaskets and sweeps shall be warranted for a period of three years.

2.09 SILENCERS

A. Manufacturers:
1. Listed in Door Hardware Schedule: Trimco
2. Approved Substitutions: Rockwood, Ives

2.10 FINISHES

A. Exposed surfaces of hardware shall be Brushed Chrome (US26D, 625), unless otherwise indicated. Items specified in Satin Stainless Steel (US32D, 630) shall be supplied in stainless steel with no exceptions.
B. The designations used in the schedule and elsewhere to indicate hardware finishes are the industry recognized standard commercial finishes common to the products manufacturer listed.

PART 3 EXECUTION

3.01 EXAMINATION

A. Under provisions of Section 01 04 00, examine and verify that substrates and project site conditions are ready to receive work of this section.
B. Do not begin installation until finishes indicated to be field applied have been applied to doors, frames, and similar items requiring project site finishing and are thoroughly dry and cured.
C. Do not begin installation until unsatisfactory conditions are corrected in a manner acceptable to the Installer. Beginning Installation means Installer accepts project site conditions and substrates as ready to receive work of this section.

3.02 INSTALLATION

A. General: The types and approximate quantities of door hardware required for this project are indicated at the end of this section.
B. Key Cabinet: Install in location as indicated on drawings or as directed by the Architect.
C. Heights: Install hardware units at heights indicated in "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute, except as specifically indicated or required to comply with governing regulations, and except as may be otherwise directed by the Architect.
D. Substrates: Adjust and reinforce attachment substrates as necessary for proper installation and operation of hardware.
E. Installation:
1. Install each hardware item in compliance with the manufacturer's instructions, requirements of NFPA 80, NFPA 101, IBC, ADA, State Rules and Regulations for Barrier Free Facilities and recommendations of the DHI.
2. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrates as necessary for proper installation and operation.
3. Drill and countersink units which are not factory prepared for fasteners. Space fasteners and anchors in accordance with industry standards.
4. Where not factory machined, machine cut for hardware per template, as required.
5. Cut and fit thresholds and floor covers to profile of door frames. Join units with concealed welds. Cut a smooth opening for spindles, bolts, or similar items. Screw thresholds to substrate with the manufacturer's standard stainless steel machine screws and expansion anchors (SS/SS/EA) unless otherwise noted. Fill cavities of thresholds at sound rated openings with 1 inch thick (uncompressed thickness) low density fiberglass sill sealer insulation full width and length of the threshold. In addition to fastening requirements, set thresholds for exterior doors in a full bed of butyl-rubber or polyisobutylene mastic sealant.
6. Do not install hardware which is incomplete or apparently improper for application. Notify the hardware supplier immediately of any such deficiencies. Failure to comply with this requirement indicates the hardware installer's acceptance of responsibility for proper application and performance.
F. Cutting and Patching:
Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, coordinate removal, storage and reinstallation or application of surface protections with finishing work specified in the Division-9 sections.
G. Where existing components are to receive new hardware, prepare the existing component to accept the new hardware as specified. If the existing component cannot be fabricated to accept the new hardware, or if the revisions will result in a voided labor, immediately contact the architect for direction.

3.03 ADJUSTING

A. Initial Adjustment:
1. Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Adjust resilient faced sound stops for continuous contact

with door and threshold. Adjust weatherstripping and sweeps to completely seal doors with frames and to adjacent structures.
2. Replace units which cannot be adjusted to operate freely and smoothly as intended for the application made.
B. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy of a space or area, return to the work during the week prior to acceptance or occupancy, and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

3.04 DEMONSTRATION

Instruct Owner's personnel in proper adjustment and maintenance of hardware and hardware finishes, during the final adjustment of hardware.

3.05 CLEANING AND DEBRIS

A. Cleaning:
1. Clean work under provisions of Section 01 70 00
2. Clean adjacent surfaces soiled by work of this section.
B. Debris: Under provisions of Section 01 50 00, remove debris from project site and legally dispose of off-site.

3.06 MAINTENANCE

A. Approximately six months after the acceptance of hardware in each area, the hardware installer shall:
1. Return to the project and re-adjust every item of hardware to restore proper function of doors and hardware.
2. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures.
3. Replace hardware items which have deteriorated or failed due to faulty design, materials or installation of hardware units.
4. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware and submit to the Architect.

3.07 PROTECTION

Under provisions of Section 01 50 00, protect work of this section as required so that work will be without damage or deterioration at the time of completion and acceptance by the Owner.

3.08 DOOR HARDWARE SCHEDULE

List of Manufacturers

NA	National Guard	Gaskets
SC	Schlage	Locks, Cylinders
ST	Stanley	Hinges
TR	Trimco	Stops, Flat Goods

Finish Codes

Code	Description
626, 652	Brushed Chrome
630	Satin Stainless Steel
689	Painted Aluminum

Option List

Code	Description
Type N	Spanner Through Bolt Mounting (Trimco)
Type L	Spanner Back to Back Mounting (Trimco)

SET #1 - Suite Entry

Door: 100A

1	Continuous Hinge	661HD	628 ST
1	Deadlock	M918DB	626 AD
1	Mortise Cylinder	1E-74 PATD	626 BE
1	ADA Thumbturn Cylinder	1EA-84 ADA	626 BE
1	Push/Pull Set	1738 Type L & N Mounting	630 TR
1	Door Closer/Drop Plate	CDC115 + 8CD0471	689 ST
1	Spacer Block	P45HD-110	689 ST
1	Angle Bracket	P45HD-112	689 ST
1	Wall Bumper	1270WV	630 TR
	Gaskets by door manufacturer.		

SET #2 - Faculty Office

Doors: 103A, 104A, 105A, 106A, 107A, 108A, 110A, 111A, 112A

3	Hinges	CB179 4 1/2 X 4 1/2	652 ST
1	Lockset	9K5-7A815D PATD	626 BE
1	Wall Bumper	1270WV	630 TR
1	Gasketing	5040 S	NA

End of Section

Boultinghouse Simpson Gates ARCHITECTS
3301 N McColl Rd | McAllen, TX 78501 | P 956.630.9494 | F 956.630.2058

STATE OF TEXAS REGISTERED ARCHITECT ROBERT S. SIMPSON 8755 01-31-19

DOOR HARDWARE AND SCHEDULE AND SPECIFICATION

SHEET TITLE
DOOR HARDWARE AND SCHEDULE AND SPECIFICATION

PROJECT NAME
NAH CAMPUS CLE CONVERSION STC PROJECT #18-19-1037

OWNER
SOUTH TEXAS COLLEGE

PROJECT ADDRESS
1101 E VERMONT McALLEN, TEXAS 78503

ISSUE DATE
JANUARY 31, 2019

PROJECT NO
1828

REVISIONS

SHEET NUMBER
A2.11

DOOR HARDWARE SCHEDULE AND SPECIFICATION
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A1

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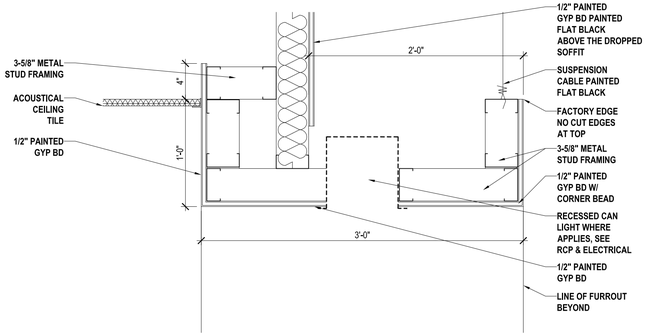

ENTRY LINEAR LIGHT RECESS DETAIL (D4)

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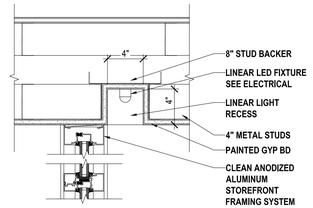

ENTRY LINEAR LIGHT RECESS DETAIL (D3)

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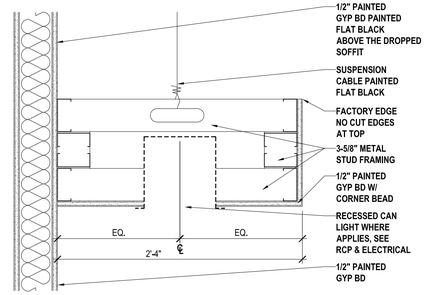
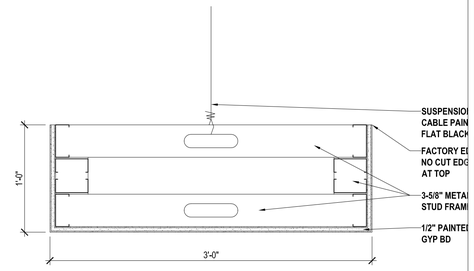


CEILING SOFFIT DETAIL (D2)

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



CEILING SOFFIT DETAIL (D1)

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

GENERAL NOTES

A	REF MECHANICAL & ELECTRICAL FOR MORE INFORMATION
B	ALL CEILING HEIGHTS SHALL BE REFERENCED FROM FINISH FLOOR ELEVATION. (UNLESS NOTED OTHERWISE)
C	CENTER ALL LIGHT FIXTURES, SPRINKLER HEADS, CEILING MOUNTED SMOKE DETECTORS, ILLUMINATED EXIT SIGNS, & ALL OTHER CEILING MOUNTED EQUIPMENT IN THE CENTER OF ITS RESPECTIVE CEILING TILE (UNLESS NOTED OTHERWISE).
E	EXPOSED TO DECK ABOVE. PAINT EVERYTHING ABOVE THE 10'-0" LEVEL FLAT BLACK. THIS INCLUDES, BUT IS NOT LIMITED TO ALL METAL DECK, STEEL STRUCTURE, GYP BD WALLS, CONDUIT, JUNCTION BOXES, ETC
F	GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REDESIGN OF THE SPRINKLER SYSTEM FOR THIS REMODEL.G.C. SHALL EMPLOY A STATE LICENSED SPRINKLER DESIGNER TO DESIGN SYSTEM TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

SYMBOLS LEGEND

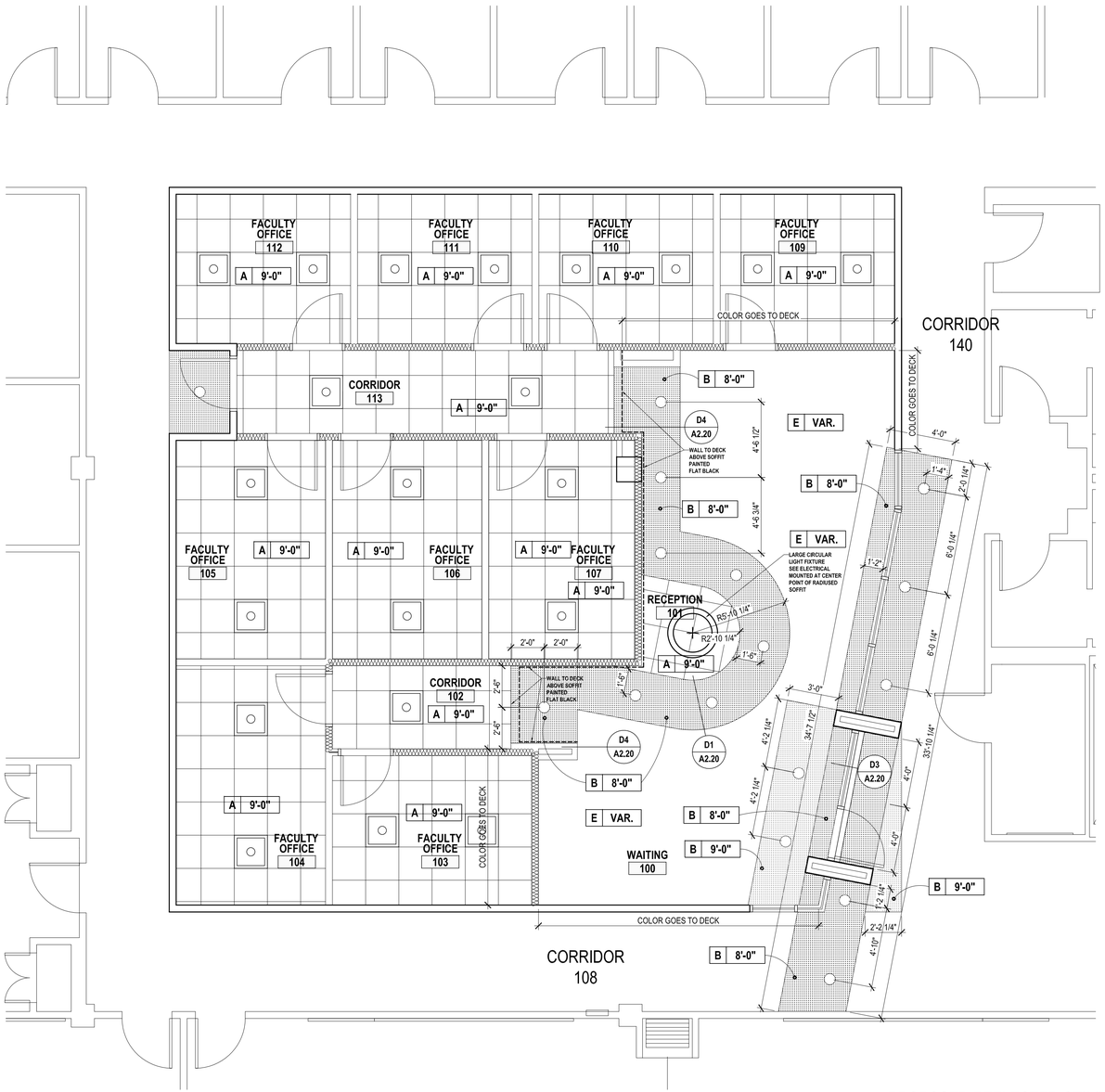
X X'-XX"	X - DENOTES CEILING TYPE X'-XX" - DENOTES CEILING HEIGHT		RETURN AIR/ TRANSFER AIR GRILLE
	LINEAR WALL WASHER LIGHT FIXTURE		EXHAUST AIR GRILLE
	2 X 4 FLUORESCENT LIGHT FIXTURE		WALL MOUNT SCONCE
	RECESSED CAN LIGHT		
	FLUORESCENT PENDANT LIGHT FIXTURE		
	SUPPLY AIR DIFFUSER		

CEILING TYPE

A		2 X 2 ARMSTRONG CLASSIC FINE -FISSURED TEGULAR EDGE MINERAL FIBER NRC = 0.70
B		GYP BD CEILING, TAPED, FLOATED, TEXTURED AND PAINTED
C		NOT USED

PROPOSED CEILING LEGEND, GENERAL NOTES (A4)

SCALE: NO SCALE



PROPOSED REFLECTED CEILING PLAN (A1)

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

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REGISTERED ARCHITECT ROBERT S. SIMPSON 8255 STATE OF TEXAS
01-31-19

SHEET TITLE
PROPOSED REFLECTED CEILNG PLAN

PROJECT NAME
NAH CAMPUS CLE CONVERSION STC PROJECT #18-19-1037

OWNER
SOUTH TEXAS COLLEGE

PROJECT ADDRESS
1101 E VERMONT McALLEN , TEXAS 78503

ISSUE DATE
JANUARY 31, 2019

PROJECT NO
1828

REVISIONS

SHEET NUMBER
A2.20

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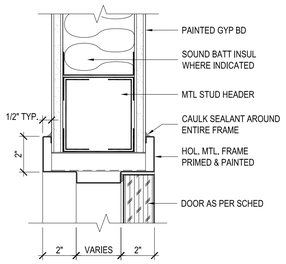

WOOD DOOR HEADER DETAIL (D5)
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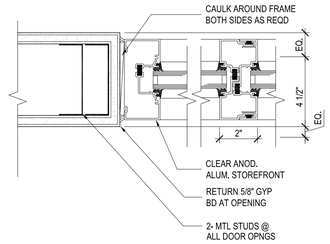

STOREFRONT WINDOW JAMB DETAIL (D4)
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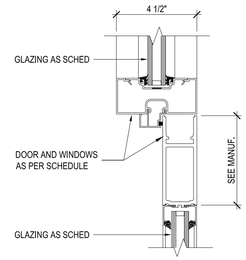

STOREFRONT TRANSOM DETAIL (D3)
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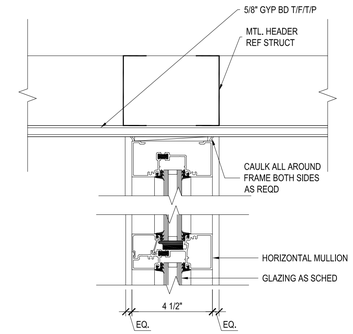

STOREFRONT WINDOW HEAD DETAIL (D2)
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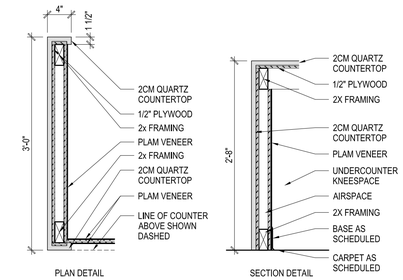

WRAPDOWN RECEPTION COUNTER DETAIL (D1)
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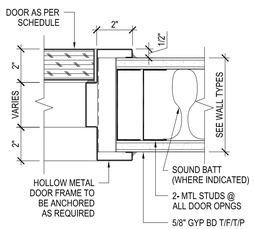

WOOD DOOR JAMB DETAIL (C5)
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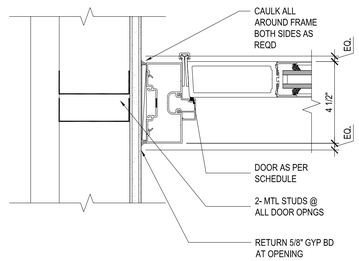

STOREFRONT DOOR JAMB DETAIL (C4)
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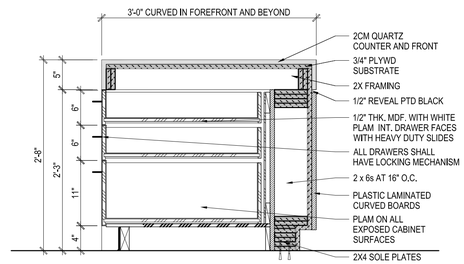

RECEPTION DESK MILLWORK SECTION (C3)
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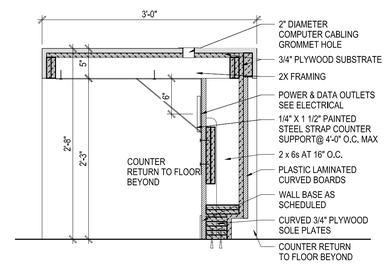

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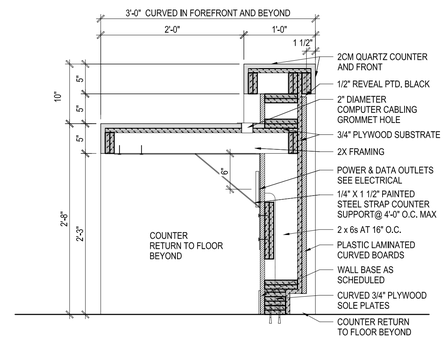

RECEPTION DESK MILLWORK SECTION (C1)
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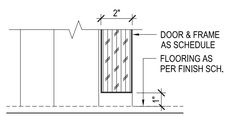

WOOD DOOR SILL DETAIL (B5)
SCALE: 3" = 1'-0"

GENERAL NOTES

A	ALL MILLWORK SHALL BE FIELD VERIFIED FOR ACTUAL FIELD DIMENSIONS PRIOR TO FABRICATION.
B	ALL MILLWORK SHALL COMPLY WITH AWI PREMIUM STANDARDS
C	ALL PORTIONS OF MILLWORK SHALL HAVE SHOP DRAWINGS PRODUCED AND PROVIDED AS PART OF THE SUBMITTAL PROCESS FOR REVIEW PRIOR TO FABRICATION.
D	THE ARCHITECT SHALL BE MADE AWARE OF ANY DISCONTINUED FINISHES SELECTED AS QUICKLY AS POSSIBLE SO AS NOT TO DELAY THE SELECTION OF A SUBSTITUTE.
E	ALL MILLWORK TOLERANCE SHALL BE AS DEFINED AS PART OF THE AWI PREMIUM STANDARDS.
F	ALL BASE AND UPPER CABINET DOORS AND DRAWERS SHALL HAVE A LOCKING MECHANISM.

INTERIOR ELEVATIONS GENERAL NOTES (B4)
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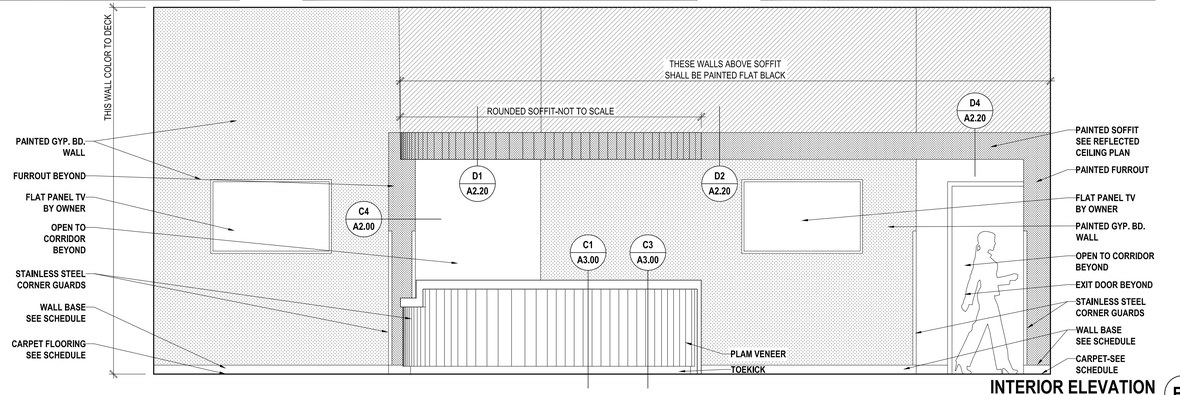

INTERIOR ELEVATION (B1)
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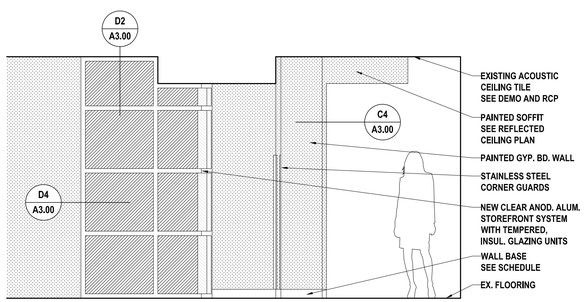

INTERIOR ELEVATION (A5)
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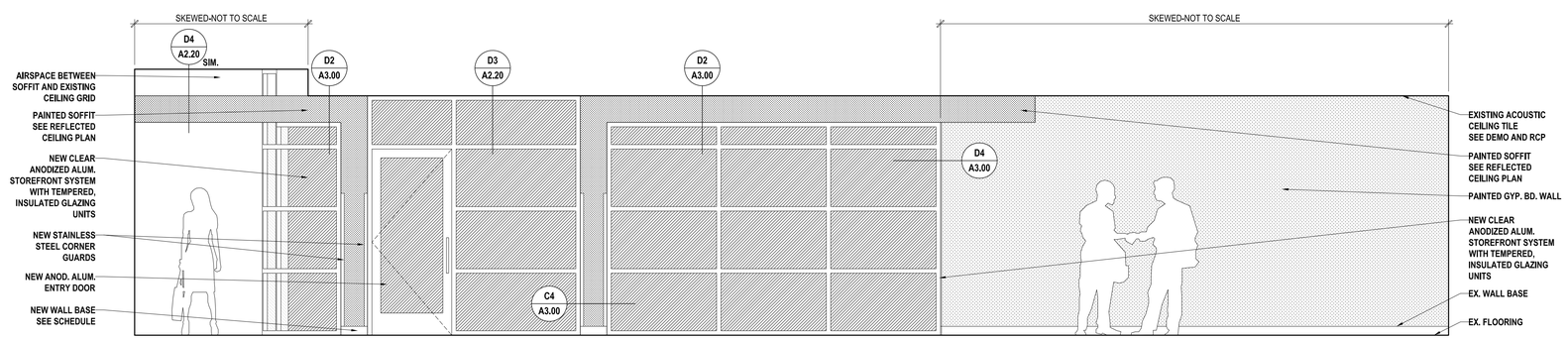

INTERIOR ELEVATION (A1)
SCALE: 3/8" = 1'-0"

Boultinghouse Simpson Gates ARCHITECTS
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STATE OF TEXAS REGISTERED ARCHITECT ROBERT S. SIMPSON 8255 0
01-31-19

SHEET TITLE
PROPOSED INTERIOR ELEVATIONS AND DETAILS

PROJECT NAME
NAH CAMPUS CLE CONVERSION STC PROJECT #18-19-1037

OWNER
SOUTH TEXAS COLLEGE

PROJECT ADDRESS
1101 E VERMONT McALLEN, TEXAS 78503

ISSUE DATE
JANUARY 31, 2019

PROJECT NO
1828

REVISIONS

SHEET NUMBER
A3.00

PLOT STAMP 1/31/2019 9:15:49 AM

SUMMARY OF WORK

1. PROVIDE ALL MATERIALS AND LABOR ASSOCIATED WITH NEW FULLY–OPERATIONAL MECHANICAL AND CONTROLS SYSTEMS FOR THE PROJECT "STC NAH CAMPUS, CLE", INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

2. DEMOLITION WORK:
   a. REMOVE AND RETAIN FOR REUSE EXISTING HVAC EQUIPMENT AND MATERIALS (VAV BOXES, TEMPERATURE SENSORS, DUCT ACCESSORIES) AS INDICATED.

   b. DEMOLISH HVAC EQUIPMENT AND MATERIALS THAT WILL NO LONGER BE REUSED. THE OWNER HAS RIGHT OF FIRST REFUSAL. DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER NO LONGER WISHES TO RETAIN.

   c. DEMOLISH EXISTING HARDWARE, CONTROLS, DUCTWORK, AIR–DEVICES, AND ACCESSORIES THAT WILL NO LONGER BE NEEDED.

3. NEW WORK: PROVIDE ALL MATERIALS AND LABOR ASSOCIATED WITH NEW FULLY–OPERATIONAL MECHANICAL AND CONTROLS SYSTEMS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   a. PROVIDE MODIFICATIONS TO DUCTWORK, DIFFUSERS, GRILLES, DAMPERS, AND OTHER ACCESSORIES. RELOCATE EXISTING VAV BOXES AND TEMPERATURE SENSORS, AND PROVIDE NEW AS SHOWN ON DRAWINGS.

   b. PROVIDE TESTING, ADJUSTING, & BALANCING (TAB).

   c. CONTROLS: COORDINATE RELOCATION OF VAV BOXES AND TEMPERATURE SENSORS. PROVIDE NEW CONTROLS AS NEEDED. UPDATE CONTROLS GRAPHICS PAGES TO REFLECT CHANGES IN FLOOR PLANS AND NEW LOCATIONS OF CONTROLS DEVICES.

   d. SHOP DRAWING SUBMITTALS FOR ALL MECHANICAL SYSTEMS INCLUDING BUT NOT LIMITED TO EQUIPMENT, DUCTWORK AND PIPING.

   e. COORDINATION DRAWINGS FOR PLACING OF MECHANICAL SYSTEMS IN RELATION TO WORK BY OTHER DISCIPLINES.

   f. COORDINATE ELECTRICAL WORK WITH DIV. 26 AS REQUIRED.

   g. COORDINATE FIRE ALARM RELATED WORK WITH FIRE ALARM CONTRACTOR. PROVIDE SMOKE DETECTORS, WIRING AND CONTROLS FOR UNITS, 2000 CFM AND LARGER, WHERE NONE EXIST.

4. PAINTING: SEE DIVISION 9 SPECIFICATIONS. PAINT ALL EXPOSED PIPING, DUCTWORK, INSULATION, HANGERS, ACCESSORIES IN INTERIOR EXPOSED AREAS. PAINT EXTERIOR PIPE SUPPORTS. COORDINATE PAINT TYPE, COLOR AND SCOPE OF WORK WITH ARCHITECT.

INSULATION:

1. FIBERGLASS INSULATION MAY NOT BE USED ON ANY COLD SURFACES; ONLY CLOSED CELL INSULATION IS ACCEPTABLE.

2. PROVIDE INSULATION ON ALL SURFACES CAPABLE OF CREATING CONDENSATION.

3. INSULATION ON DUCT SHALL BE PROPERLY TAPED AND MASTICS MUST BE APPLIED ON SEAMS AND JOINTS AND AT ENDS ADJACENT TO DUCT FLANGES AND FITTINGS. FOR DUCT SIDES WITH DIMENSIONS LARGER THAN 18 INCHES, APPLY ADDITIONAL PINS AND CLIPS TO HOLD INSULATION TIGHTLY AGAINST SURFACE AT CROSS BRACING.

CONTROLS:

1. CONTRACTOR SHALL COOPERATE AND COORDINATE WORK WITH EXISTING DDC CONTROLS COMPANY (SIEMENS) TO ENSURE SMOOTH AND TROUBLE–FREE INSTALLATION.

GENERAL NOTES:

1. SEAL ALL OPENINGS AND ENSURE THAT INSTALLATION IS WEATHER–TIGHT. PROVIDE REQUIRED MODIFICATIONS FOR A COMPLETE AND SEAMLESS INSTALLATION.

2. PERFORM DUCTWORK TIE–IN FROM NEW UNITS TO VERTICAL DUCTS VIA FLEX CONNECTORS AND TRANSITION DUCTWORK. FIELD–VERIFY EXISTING SPACE AVAILABILITY PRIOR TO BIDDING AND PRIOR TO SUBMITTING DUCTWORK SHOP DRAWINGS.

3. UNLESS OTHERWISE NOTED PROVIDE CONDENSATE DRAIN LINES WITH P–TRAPS, AND EXTEND TO NEAREST CONDENSATE DRAIN RECEPTOR. SUPPORT PIPING ON PIPING SUPPORTS BY MIRO INDUSTRIES, MODEL 1.5, OR EQUAL.

4. PROVIDE STRUCTURAL WORK AS NEEDED FOR NEW EQUIPMENT.

5. PROVIDE CONTROLS WORK AS SPECIFIED. CONTROLS INCLUDE, UNITARY CONTROLLERS AND CONTROL PANELS, ADJUSTABLE RANGE THERMOSTATS, AND DISCHARGE AIR TEMPERATURE SENSORS, RH AND CO2 SENSORS, MOTORIZED OUTSIDE AND RETURN AIR DAMPERS AND RELATED PROGRAMMING SEQUENCES. COORDINATE ROUGH–INS FOR WALL MOUNTED SENSORS (T, RH).

6. ADJUST DIFFUSERS ACCORDING TO EXISTING LIGHT LOCATION.

7. PROVIDE NEW CURBS AS PER SCHEDULE AND SPECIFICATIONS. REFER TO RTU SCHEDULE.

8. AFTER ABOVE CEILING WORK IS COMPLETE, REINSTALL CEILING SYSTEMS, COMPONENTS, AND CEILING DEVICES TO ORIGINAL CONDITION.

DEMOLITION GENERAL NOTES:

1. OWNER MAY WISH TO KEEP DEMOLISHED EQUIPMENT AND MATERIALS. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT RETAIN.

2. PRIOR TO DEMOLITION, IN CEILINGS SCHEDULED TO BE TEMPORARILY REMOVED, PREPARE REFLECTED CEILING PLAN SKETCH SHOWING LOCATIONS OF ALL CEILING COMPONENTS AND DEVICES TO BE RE–USED INCLUDING BUT NOT LIMITED TO:
   - EXISTING LIGHT FIXTURES
   - SPEAKERS
   - FIRE ALARM DEVICES
   - EMERGENCY LIGHTING
   - ETC.

   IF ANY OF THE ABOVE ITEMS ARE IN NON–WORKING CONDITION, SUBMIT A WRITTEN REPORT TO OWNER/ENGINEER.

CODES AND ORDINANCES:

1. PERFORM ALL WORK PER LATEST VERSION OF INTERNATIONAL CODES, APPLICABLE STATE AND LOCAL CODES AND ORDINANCES, UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS.

2. NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.

PERMITS:

1. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES.

2. OBTAIN APPROVAL FROM CITY FIRE DEPARTMENT AND BUILDING AND SAFETY DEPARTMENT PRIOR TO INSTALLATION OF ANY FIRE RELATED ITEMS.

3. WITH PERMITTING OFFICER, OWNER AND ENGINEER, COORDINATE PRESSURE TESTS, INSPECTIONS AND APPROVAL FOR ALL SYSTEMS.

DUCTWORK:

1. DUCTWORK SHALL BE GALVANIZED STEEL. SIZES SHOWN ARE INSIDE CLEAR DIMENSION.

2. CONSTRUCT ALL DUCTWORK BASED ON SMACNA REQUIREMENTS. COORDINATE PRESSURE CLASSES WITH EQUIPMENT SCHEDULES.

3. PROVIDE TURNING VANES IN ALL ELBOWS.

EXISTING CONDITIONS & COORDINATION/RENOVATION:

1. COORDINATE PROJECT COMPLETION DATES WITH OWNER. PERFORM WORK IN CLOSE COORDINATION WITH OWNER.

2. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.

3. PROVIDE LIGHTED SAFETY BARRIERS AROUND WORK AREAS AT ALL TIMES.

4. WORK TO BE DONE UNDER ALLOWANCES BECOMES AN INTEGRAL PART OF THE WORK AND THE RESPONSIBILITY OF THE CONTRACTOR ONCE THE ALLOWANCE IS APPROVED.

5. COORDINATE WITH OWNER AND ENGINEER FOR ANY DISRUPTION IN UTILITY SERVICES, PARTICULARLY THOSE THAT MIGHT AFFECT OTHER BUILDINGS ON CAMPUS.

6. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S APPROVAL IN WRITING. UNLESS ENGINEER HAS AGREED TO SUCH CHANGE PRIOR TO IT BEING DONE, AND HAS AGREED THAT AN INCREASE IN COST ASSOCIATED WITH SUCH CHANGE IS WARRANTED; CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.

7. OWNER'S EQUIPMENT, MATERIALS, FURNISHINGS, CARPETS, AND INTERIOR SURFACES ARE TO BE PROTECTED FROM DUST ACCUMULATION AND DAMAGE, AND MUST BE THOROUGHLY CLEANED PRIOR TO SUBSTANTIAL COMPLETION. CARPETS ARE TO BE PROTECTED WITH HEAVY DUTY PLASTIC SHEETING. REFER TO SPECIFICATIONS SECTION 01700 EXECUTION REQUIREMENTS FOR FURTHER DETAIL.

8. MAINTAIN PROJECT SITE FREE OF WASTE MATERIALS AND DEBRIS, AND CLEAN SITE AT END OF EACH WORK DAY TO GREATEST EXTENT POSSIBLE.

9. SUBMISSION OF PROPOSAL IS CONSIDERED AN ACKNOWLEDGEMENT THAT CONTRACTOR VISITED SITE, VERIFIED ALL EXISTING CONDITIONS, AND INCLUDED ANY MODIFICATIONS TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND OPERATIONAL SYSTEM.

10. TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE CONDITIONS THAT COULD HAVE BEEN VERIFIED PRIOR TO SUBMITTING PROPOSAL.

11. DRAWINGS SHOWING ALL EQUIPMENT LOCATIONS, DUCT AND PIPE SIZES, ELEVATIONS, AND ELECTRICAL INFORMATION HAVE BEEN RECREATED USING DRAWINGS AND SITE SURVEYS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SITE CONDITIONS IN ORDER TO MAKE ANY NECESSARY ADJUSTMENTS, PRIOR TO ORDERING MATERIALS OR COMMENCING INSTALLATION. CHANGE ORDERS WILL NOT BE APPROVED FOR DIMENSIONAL VERIFICATIONS REQUIRING MINOR ADJUSTMENTS NEEDED TO COMPLETE INSTALLATION.

12. FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.

13. PROVIDE OWNER WITH MINIMUM 10 DAYS ADVANCE NOTICE OF INTENT TO PERFORM ANY WORK WHICH WILL REQUIRE CHILLER PLANT OR ELECTRICAL SERVICE TO BE SHUT DOWN.

14. PROVIDE SHOP DRAWINGS TO COORDINATE EXISTING AND NEW WORK.

15. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER IF ANY MATERIALS SUSPECTED OF CONTAINING ASBESTOS ARE FOUND AND STOP WORK IMMEDIATELY.

16. IT IS CONTRACTOR'S RESPONSIBILITY TO REMOVE AND DISPOSE OF ALL ITEMS INDICATED TO BE REMOVED. ONLY EXPRESSLY DESIGNATED ITEMS SHALL BE TURNED OVER TO OWNER.

17. CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY DISTURBED SURFACE TO ITS ORIGINAL CONDITION. ANY ROAD, TRAFFIC, OR OTHER PAINTED OR ERECTED SIGNS DAMAGED AS A RESULT OF WORK PERFORMED IN THOSE AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.

18. CUTTING AND PATCHING OF WALLS DAMAGED IN THE REMOVAL OF ITEMS SHALL BE DONE, WHETHER OR NOT DRAWINGS SPECIFICALLY CALL FOR SUCH REPAIRS.

19. REMOVE ALL EQUIPMENT, MATERIALS, CONTROL DEVICES, BOXES, POWER AND CONTROL WIRING, SAFETY SWITCHES, TUBING, ELECTRICAL CONDUIT, PIPING, SENSORS, ELECTRICAL DISCONNECTS, SUPPORTING DEVICES AND STRUCTURES, AND ALL RELATED AUXILIARY ITEMS ASSOCIATED WITH EQUIPMENT AND MATERIALS WHICH WILL NO LONGER BE USED AFTER THE PROJECT IS COMPLETE.

MECHANICAL SYMBOLS LEGEND

12x12	DUCT SIZE: FIRST FIGURE IS SIDE SHOWN
(12x12)	BELOW DUCT SIZE: FIRST FIGURE IS SIDE SHOWN
	DIRECTION OF FLOW-RETURN
	DIRECTION OF FLOW-SUPPLY
8x8	HARD DUCT
RG– TG–	RETURN AIR/TRANSFER AIR GRILLE
SD–	SUPPLY AIR DIFFUSER
T	THERMOSTAT

ABBREVIATIONS

A	AMPS	EMS	ENERGY MANAGEMENT SYSTEM	NTS	NOT TO SCALE
ACT	ACTUATOR	EXT.	EXTERNAL OR EXTERIOR	OA	OUTSIDE AIR
ACCU	AIR COOLED CONDENSING UNIT	FCU	FAN COIL UNIT	OAU	OUTSIDE AIR UNIT
AHU	AIR HANDLING UNIT	FD	FIRE DAMPER	PH	PHASE
AFF	ABOVE FINISHED FLOOR	FM	FLOW METER	RA	RETURN AIR
B.	BOTTOM	FS	FLOW SWITCH	RAG/RG	RETURN AIR GRILLE
BAS	BUILDING AUTOMATION SYSTEM	G.	GROUND	RD	ROOF DRAIN
BOP	BOTTOM OF PIPE	GA.	GAGE	RM.	ROOM
BOTT.	BOTTOM	GALV.	GALVANIZED	SA	SUPPLY AIR
BPD	BYPASS DAMPER	GPM	GALLONS PER MINUTE	SD	SUPPLY AIR DIFFUSER
CLG.	CEILING OR COOLING	GRND.	GROUND	SS	STAINLESS STEEL
COMB.	COMBINATION	HB	HOSE BIBB	TAB	TESTING & BALANCING
CONC.	CONCRETE	HP	HORSEPOWER	TS	TEMPERATURE SENSOR
CW	CITY WATER	HS	HUMIDITY SENSOR	TSTAT	THERMOSTAT
DDC	DIRECT DIGITAL CONTROLS	HVAC	HEATING, VENTILATION, & AIR CONDITIONING	UG	UNDERGROUND
DMPR.	DAMPER			UNO	UNLESS OTHERWISE NOTED
EAG/EG	EXHAUST AIR GRILLE	MECH	MECHANICAL	V	VOLTS
EDH	ELECTRIC DUCT HEATER	MS	MOTOR STARTER	VAV	VARIABLE AIR VOLUME
EF	EXHAUST FAN	MZ	MULTI-ZONE	VFD	VARIABLE FREQUENCY DRIVE

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1.30.2019

SHEET TITLE
GENERAL NOTES
PROJECT NAME
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OWNER
SOUTH TEXAS COLLEGE
PROJECT ADDRESS
1101 E VERMONT McALLEN, TEXAS 78503

ISSUE DATE
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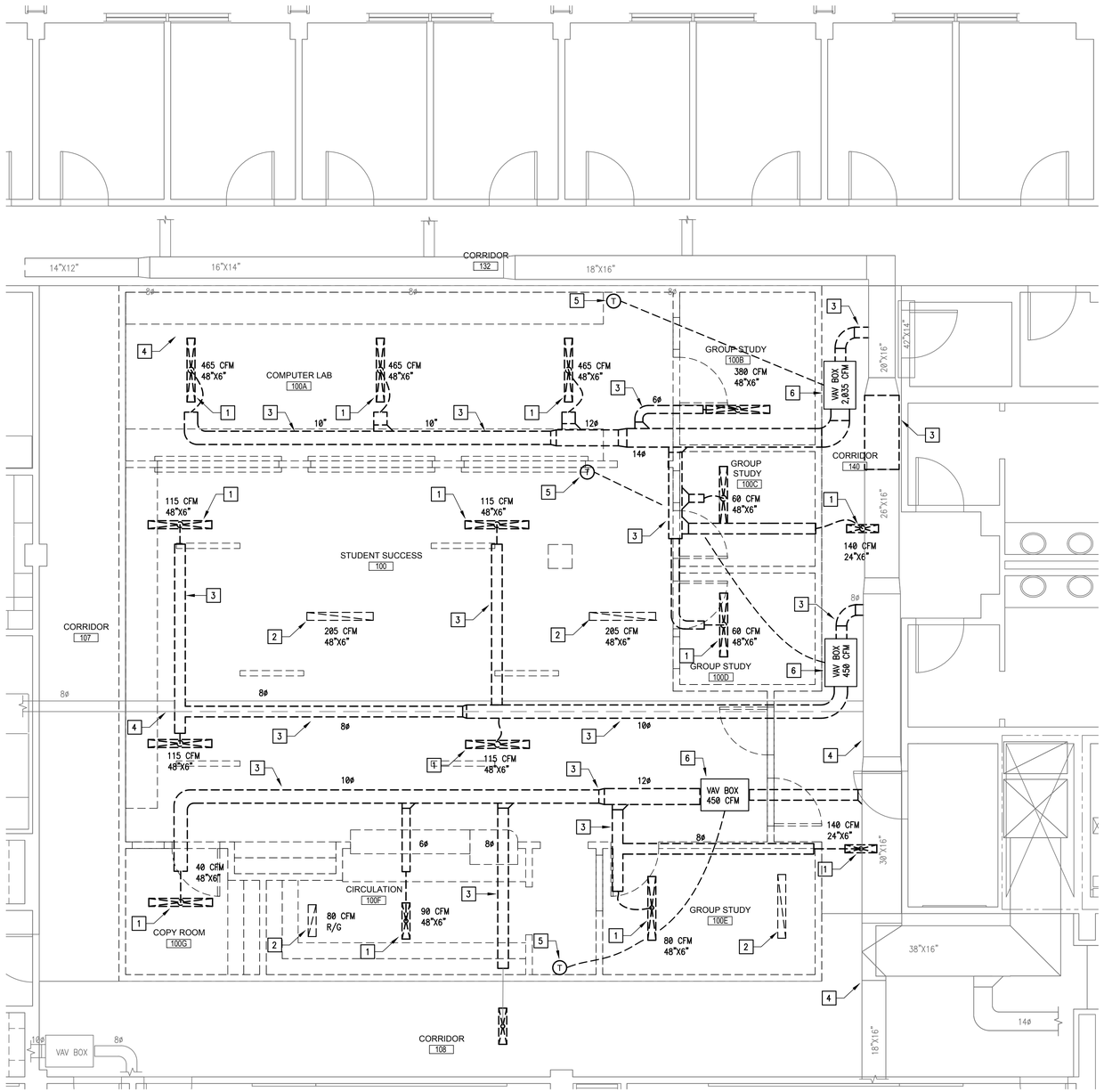


01 MECHANICAL DEMOLITION PLAN

SCALE : 1/4" = 1"=0"

NORTH

DEMOLITION GENERAL NOTES:

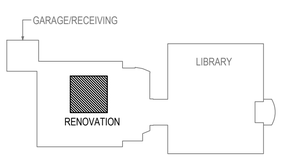
1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
2. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION WORK.
3. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF MECHANICAL EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
4. CONTRACTOR SHALL REVIEW ARCHITECTURAL DOCUMENTS IN ADDITION TO THE DIVISION 21, 23, 26 & 28 DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK.
5. COORDINATE DEMOLITION OF DIVISION 21 & 23 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.
6. ALL EXISTING EQUIPMENT REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
7. CONTRACTOR SHALL NOT DAMAGE STRUCTURAL INTEGRITY OF BUILDING ELEMENTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ENGINEER. CONTRACTOR SHALL GAIN CONSENT OF ENGINEER PRIOR TO COMPROMISING INTEGRITY OF STRUCTURAL BEAMS, IN WORK ASSOCIATED WITH BOTH DEMOLITION AND INSTALLATION.
8. OWNER MAY WISH TO KEEP DEMOLISHED EQUIPMENT AND MATERIALS. COORDINATE OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT RETAIN.
9. COORDINATE CUTTING AND PATCHING OF ARCHITECTURAL ELEMENTS WITH ARCHITECT.
10. WHERE FIXTURES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE REMOVED, THE ASSOCIATED SERVICES SHALL BE CAPPED AT A CONCEALED LOCATION ONLY WHEN SERVICES ARE NOT TO BE REUSED. OTHERWISE PREPARE SERVICES FOR INSTALLATION OF NEW FIXTURES OR EQUIPMENT.
11. WHERE THE REMOVAL OF FIXTURES OR EQUIPMENT RENDERS EQUIPMENT DOWNSTREAM INOPERABLE, SERVICES SHALL BE EXTENDED TO DOWNSTREAM FIXTURES OR EQUIPMENT SO THAT THE FIXTURES OR EQUIPMENT IS LEFT IN OPERATING CONDITION.

DEMOLITION KEYED NOTES:

1. DEMOLISH EXISTING SUPPLY AIR DEVICE THAT WILL NO LONGER BE USED. SEE NEW PLAN FOR NEW AIR DEVICE AND LOCATION.
2. DEMOLISH EXISTING RETURN AIR DEVICE THAT WILL NO LONGER BE USED. SEE NEW PLAN FOR NEW AIR DEVICE AND LOCATION.
3. DEMOLISH EXISTING DUCTWORK AS SHOWN. SEE NEW PLAN FOR NEW ROUTING.
4. RETAIN AND REUSE EXISTING DUCTWORK.
5. RETAIN AND RELOCATE EXISTING TEMPERATURE SENSOR. SEE NEW PLAN FOR NEW LOCATION.
6. RETAIN AND RELOCATE EXISTING VAV BOX. SEE NEW PLAN FOR NEW LOCATION.

LEGEND

SD 150 cfm	SUPPLY DIFFUSER TO BE DEMOLISHED
RG 150 cfm	RETURN GRILLE TO BE DEMOLISHED
6x6	EXISTING DUCTWORK TO BE DEMOLISHED
SD-1 150 cfm	SUPPLY DIFFUSER TO REMAIN
RG-1 150 cfm	RETURN GRILLE TO REMAIN
6x6	EXISTING DUCTWORK TO REMAIN
T	T-STAT TO BE RELOCATED
T	T-STAT WIRE
	EXISTING VAV BOX TO BE RELOCATED
	EXISTING VAV BOX TO BE RETAINED



KEYPLAN

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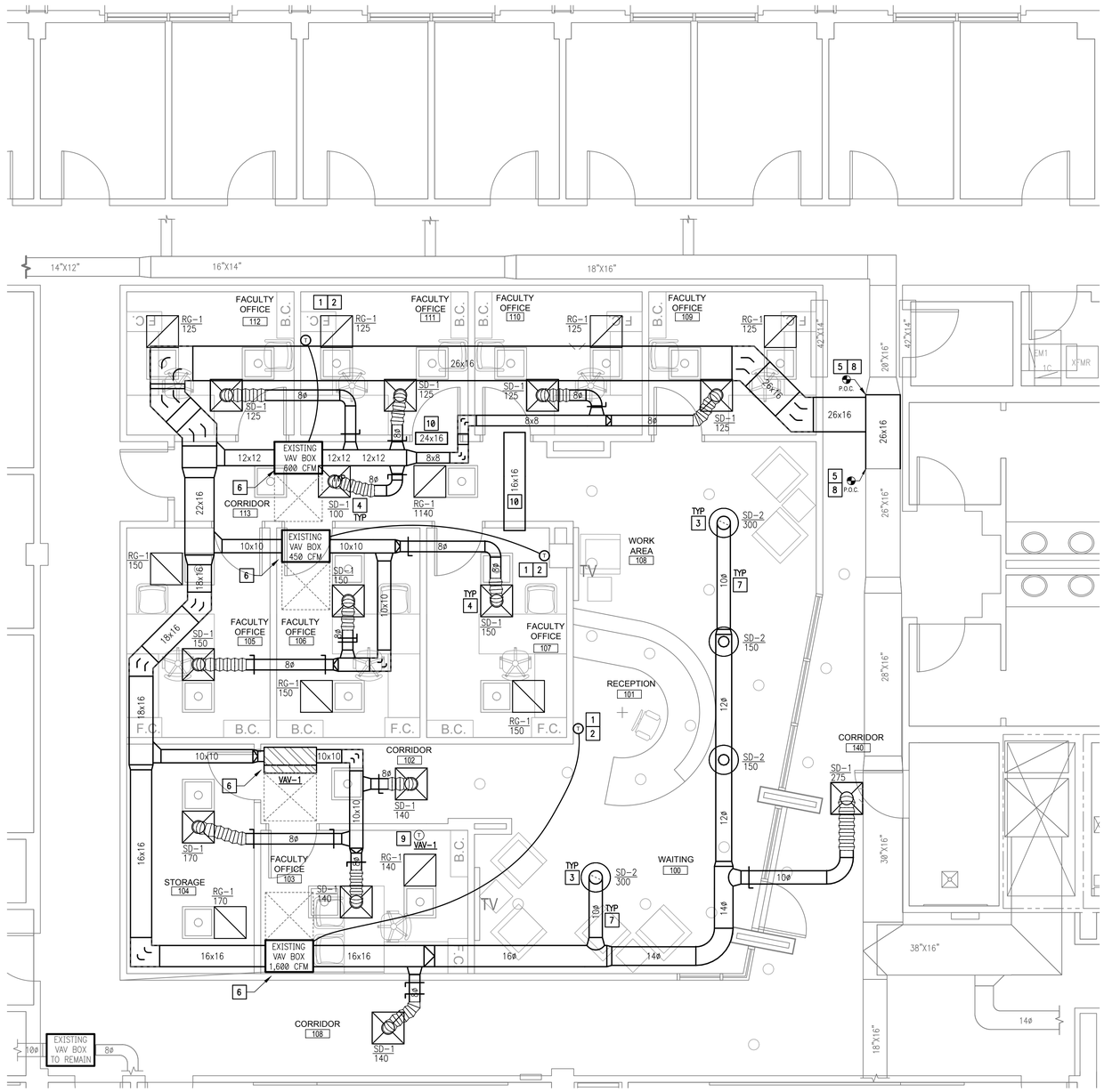


01 NEW MECHANICAL PLAN

SCALE : 1/4" = 1"=0"

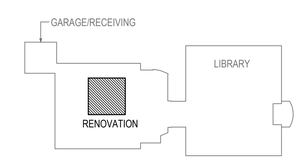
NORTH

KEYED NOTES:

1. EXISTING RELOCATED TEMPERATURE SENSOR. INSTALL 48" A.F.F. COORDINATE WITH ARCHITECT AND OWNER TO MEET ADA REQUIREMENTS. PROVIDE CLEAR LOCKING COVER. (TYPICAL)
2. EXTEND TEMPERATURE SENSOR CONTROL WIRE AS NECESSARY FOR SENSOR RELOCATION.
3. PROVIDE NEW ROUND SUPPLY AIR DIFFUSER AS SCHEDULED. (TYPICAL)
4. PROVIDE NEW SQUARE SUPPLY AIR DIFFURER AS SCHEDULED. (TYPICAL)
5. FIELD VERIFY DUCT SIZE AND PROVIDE DUCT ADAPTER AS NECESSARY FOR A COMPLETE AIRTIGHT INSTALLATION.
6. PROVIDE TEST & BALANCE SERVICES TO BALANCE AIR FLOWS ON AIR DEVICES AND VAV BOXES AS SHOWN.
7. PAINT ALL DUCTWORK EXPOSED TO VIEW, PROVIDE DOUBLE WALL DUCT WITH 2" THICK INSULATION. CLEAN ALL SURFACES BEFORE PAINTING AND COORDINATE COLOR WITH ARCHITECT. (TYPICAL)
8. CONNECT NEW DUCT INTO EXISTING AT THIS APPROXIMATE LOCATION.
9. PROVIDE PROGRAMMABLE THERMOSTAT. INSTALL 48" A.F.F. COORDINATE WITH ARCHITECT AND OWNER TO MEET ADA REQUIREMENTS. PROVIDE CLEAR LOCKING COVER FOR ALL SENSORS.
10. PROVIDE TRANSFER DUCT AS SHOWN. PROVIDE FULL SIZE OPENING AT THE END OF THE TRANSFER AIR DUCT. PROVIDE WIRE MESH OVER ON THE TRANSFER AIR OPENING.

LEGEND

SD-1 150 cfm	NEW SQUARE SUPPLY DIFFUSER
SD-2 150 cfm	NEW ROUND SUPPLY DIFFUSER
6x6	NEW DUCTWORK
6x6	EXISTING DUCTWORK TO REMAIN
cfm 150	SUPPLY DIFFUSER EXISTING SQUARE
T	RELOCATED T-STAT TO REMAIN
T	T-STAT WIRE
P.O.C.	POINT OF CONNECTION
	EXISTING VAV BOX RELOCATED
	EXISTING VAV BOX RETAINED



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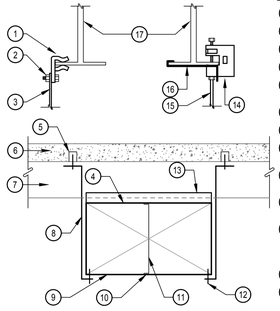


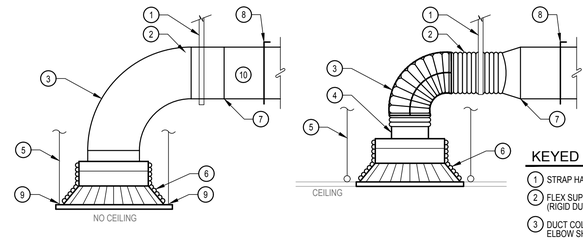
KEYED NOTES

1. FRICTION CLAMP.
2. NUT & BOLT.
3. HANGER STRAP.
4. ARRANGE SEAM JOINTS TO MISS BEAMS.
5. INSERT-DO NOT INSERT INTO BOTTOM OF BEAMS OR JOISTS.
6. CEILING SLAB.
7. CONSTRUCTION BEAM.
8. 1" X 18 GA. STRAP HANGER (ONE HANGER ON DUCTS 31" AND UP).
9. DUCT WITH FLAT SEAM CONSTRUCTION (STANDARD "S" SLIP SNUG TO BEAM).
10. 3/16" SD 64BS POP RIVETS (TWO EACH AT TOP & BOTTOM OF VERTICAL STIFFENER).
11. 1-1/2" X 16 GA. STEEL BAR SUPPORT LOCATED CLOSE TO STIFFENER. DUCT WIDTH TO 24" - NOT REQUIRED DUCT WIDTH 25" TO 47" - ONE (1) REQUIRED.
12. #6 X 3/8" S/M SCREW (TYP).
13. ANGLE STIFFENER FOR DUCT WIDTH 25" TO 40": 1" STANDING "S" OR 1" X 1" X 1/2" ANGLE.
14. C-CLAMP WITH RETAINING CLIP OR WITH LOCK NUT (OPTIONAL).
15. HANGING ROD.
16. RETAINING CLIP.
17. STRUCTURAL.

NOTE:
FOLLOW SMACNA GUIDELINES FOR DUCT SUPPORT.

01 DUCT SUPPORT

S C A L E : NOT TO SCALE



KEYED NOTES

1. STRAP HANGER.
2. FLEX SUPPLY DUCT, TYP. (RIGID DUCT IN EXPOSED AREAS)
3. DUCT COLLAR (TO RETAIN ELBOW SHAPE).
4. ROUND NECK ADAPTOR.
5. HANGER. TYP.
6. INSULATION, TYP.
7. RECT. TO ROUND TRANSITION, TYP.
8. VOLUME DAMPER AT TAKE-OFF (PREFERRED LOCATION), TYP.
9. SUPPORT DIFFUSER FROM STRUCTURAL, TYP.
10. PAINT EXPOSED DUCTWORK.

02 DIFFUSER SUPPORT

S C A L E : NOT TO SCALE

AIR DEVICE & DIFFUSER SCHEDULE

Project: STC Building K Renovations

SUPPLY AIR DIFFUSER (SD-1)

TITUS TMS-AA			DESCRIPTION: LOUVERED FACE ALUMINUM SQUARE CEILING DIFFUSER, BORDER TYPE 3, COLOR WHITE WITH ROUND NECK AND FULL FACE		
CLG. MODULE SIZE INCHES	FACE SIZE INCHES	ROUND NECK SIZE	FLEX DUCT SIZE	DIFFUSER DIFFUSION PATTERN & CFM	NOTES
24 X 24	24 X 24	SEE PLAN	SEE PLAN	SD1-CFM	ALL

SUPPLY AIR DIFFUSER (SD-2)

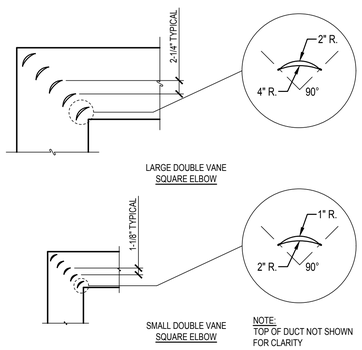
TITUS R-OMNI NC < 20			DESCRIPTION: STEEL ROUND DIFFUSER, FOR EXPOSED DUCTWORK APPLICATION. PROVIDE STANDARD FINISH WHITE.		
NOMINAL ROUND DUCT SIZE INCHES	OUTSIDE DIAMETER INCHES	ROUND NECK SIZE INCHES	-	DIFFUSER DIFFUSION PATTERN & CFM	NOTES
8	18	8	-	SD2-CFM	ALL

RETURN/TRANSFER AIR GRILLE (RG-1, TG-1)

TITUS 50F NC < 20			DESCRIPTION: ALUMINUM GRID EGGCRATE RETURN GRILLE	
CFM RANGE	CLG. MODULE SIZE INCHES	NOMINAL DUCT SIZE INCHES (INLET)	DIFFUSER DIFFUSION PATTERN & CFM	NOTES
0 - 1600	24 X 24	20 X 20	RG1/TG1-CFM	ALL

NOTES:

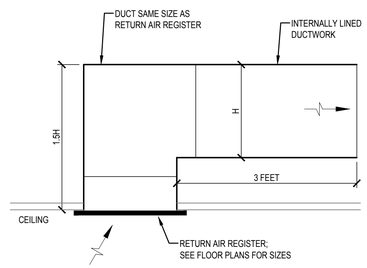
1. PROVIDE MANUFACTURER'S STANDARD BAKED WHITE ENAMEL FINISH.
2. PROVIDE FULL SIZE BACK PAN WITH DUCT ADAPTER.
3. INSULATE BACK PAN ON ALL SUPPLY AIR DIFFUSERS AND GRILLES.
4. PROVIDE MOUNTING FRAME TYPE COMPATIBLE WITH SCHEDULED CEILING OR WALL (SURFACE OR LAY-IN).
5. AIR DEVICES SHALL MATCH ARCHITECTURAL FINISH. COORDINATE COLOR WITH ARCHITECT.



NOTE:
TOP OF DUCT NOT SHOWN FOR CLARITY

03 TYPICAL VANED DUCT ELBOWS

S C A L E : NOT TO SCALE

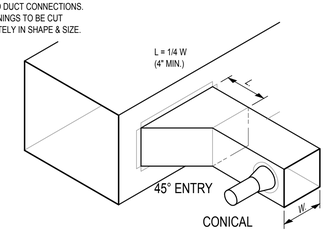


04 RETURN AIR REGISTER

S C A L E : NOT TO SCALE

NOTES:

1. FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS & SECURE SUITABLY FOR THE PRESSURE CLASS.
2. ADDITIONAL MECHANICAL FASTENERS REQ'D. FOR 4" W.G. & OVER.
3. DO NOT EXPOSE LINER EDGES ON LINED DUCT CONNECTIONS.
4. ALL OPENINGS TO BE CUT ACCURATELY IN SHAPE & SIZE.



05 BRANCH CONNECTION DETAILS

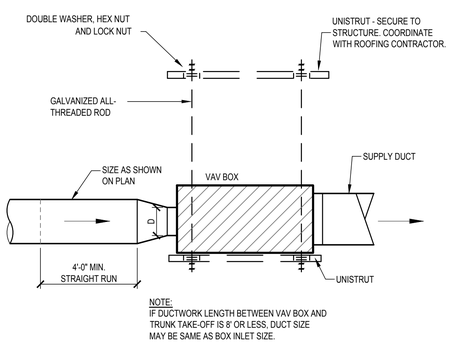
S C A L E : NOT TO SCALE

1ST FLOOR EXISTING VAV BOX SCHEDULE

MARK	SERVING SPACE	CFM	MIN. ELEC. HEAT KW	ELECTRICAL V/P/H	ELECTRIC HEAT STEPS	UNIT PD (IN WG)	MIN. COOLING FLOW (%)	MANUF. MODEL SERIES	MODEL SIZE	NOTES
VAV-1-1	102, 103 & 104	450	3.0	277/1/60	2	-	30%	TITUS DESV	7	1-10
EXISTING VAV	105, 106 & 107	450	3.0	277/1/60	2	-	-	N/A	-	11-12
EXISTING VAV	109, 110, 111, 112 & 113	600	3.0	277/1/60	2	-	-	N/A	-	11-12
EXISTING VAV	100, 108, 101,108 & 140	1,500	6.0	277/1/60	3	-	-	N/A	-	11-12

NOTES:

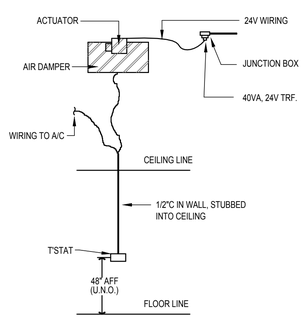
1. COORDINATE WITH DRAWINGS FOR RIGHT OR LEFT-HAND CASING CONFIGURATION PRIOR TO ORDERING.
2. PROVIDE VAV TERMINAL UNIT WITH 24V TRANSFORMER AND FUSIBLE INTEGRAL DISCONNECT.
3. COORDINATE INLET AND OUTLET DIMENSIONS WITH PLANS.
4. FURNISH VAV BOXES LESS THAN 24" DEEP.
5. FURNISH WITH SLIP AND DRIVE CONNECTIONS.
6. PROVIDE SOUND ATTENUATOR INTEGRAL TO ELECTRIC HEATING COIL SECTION.
7. MINIMUM AIR FLOW SHALL BE 50% DURING HEATING MODE.
8. PROVIDE TITUS 1" ECO SHIELD WITH FOIL FACING OR EQUAL.
9. PROVIDE AEROCROSS INLET AIR VELOCITY SENSOR OR EQUAL.
10. THE TITUS 480V, 3-PHASE ELECTRIC HEAT CONFIGURATION IS 4-WIRE WYE. DIV 26 TO PROVIDE ELECTRICAL SERVICE FOR THIS CONFIGURATION
11. FOR TEST AND BALANCE PURPOSES.
12. FIELD VERIFY HEATER KW AT THE EXISTING VAV BOXES. COORDINATE ELECTRICAL SERVICE TO EXISTING BOXES AS NEEDED.



NOTE:
IF DUCTWORK LENGTH BETWEEN VAV BOX AND TRUNK TAKE-OFF IS 8' OR LESS, DUCT SIZE MAY BE SAME AS BOX INLET SIZE.

06 TYPICAL VAV BOX DUCT CONNECTION

S C A L E : NOT TO SCALE



07 TYPICAL VAV SYSTEM DETAIL

S C A L E : NOT TO SCALE

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SHEET TITLE
MECHANICAL DETAILS AND SCHEDULE
PROJECT NAME
NAH CAMPUS CLE CONVERSION STC PROJECT #18-19-1037
OWNER
SOUTH TEXAS COLLEGE
PROJECT ADDRESS
1101 E VERMONT McALLEN, TEXAS 78503

ISSUE DATE
JANUARY 30, 2019

PROJECT NO
1828
REVISIONS

SHEET NUMBER
M4.10

GENERAL NOTES:

1. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.
2. FIELD VERIFY PROJECT SITE EXISTING CONDITIONS AND ELEVATIONS PRIOR TO BEGINNING ANY WORK.
3. COORDINATE ELECTRICAL, MECHANICAL AND PLUMBING WITH GENERAL CONSTRUCTION.
4. PHASING AND SEQUENCE OF CONSTRUCTION SHALL BE PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
5. FIELD VERIFY/SPOT EXACT LOCATIONS AND EXISTING CONDITIONS OF EXISTING MECHANICAL, PLUMBING, AND ELECTRICAL. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND WORKABLE SYSTEMS. SHOULD BIDDER FIND OMISSIONS OR DISCREPANCIES IN THE PLANS, BIDDER SHALL NOTIFY THE ENGINEER PRIOR TO THE BID DATE AND A WRITTEN CLARIFICATION WILL BE ISSUED.
6. DAMAGED ITEMS SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER. CONTRACTORS ARE REQUIRED TO SEARCH AND INVESTIGATE FOR EXISTING UTILITIES BEFORE EXCAVATING.
7. ALL MATERIALS AND LABOR, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT, WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION OF THE SYSTEM SHALL BE FURNISHED BY THIS CONTRACTOR. INCLUDE ALL COSTS OF CHANGES, IF/AS REQUIRED IN BID PROPOSAL.
8. PROVIDE J-BOXES AS REQUIRED FOR PULL WIRING.
9. AFFIX ID TAGS TO ALL DIVISION 26 EQUIPMENT.
10. PERFORM ALL WORK PER LATEST VERSION OF NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES AND ORDINANCES, UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS.
11. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.
12. CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED PERMITS.
13. NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.
14. COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
15. SEAL AROUND ELECTRICAL RACEWAYS AT ALL WALLS, A/C ROOMS AND WALL LOUVER PENETRATIONS WITH FIREPROOF CAULKING. RE: SPECS. PROVIDE FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE, TO PROVIDE FINISHED LOOK.
16. TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING PHASE.
17. CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, WORK BY OTHERS, AND ELECTRICAL WORK ASSOCIATED WITH OTHER DISCIPLINES.
18. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.
19. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S APPROVAL IN WRITING. UNLESS ENGINEER HAS AGREED TO SUCH CHANGE PRIOR TO IT BEING DONE, AND HAS AGREED THAT AN INCREASE IN COST ASSOCIATED WITH SUCH CHANGE IS WARRANTED; CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.
20. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MECHANICAL AND PLUMBING CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
21. FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
22. ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY THEIR CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.
23. EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
24. WORK TO BE DONE UNDER ALLOWANCES BECOMES AN INTEGRAL PART OF THE PROJECT AND RESPONSIBILITY OF CONTRACTOR ONCE ALLOWANCE IS APPROVED.

ELECTRICAL SCOPE OF WORK:

A. THE FOLLOWING SUMMARY OF WORK IS INTENDED AS AN AID TO ACHIEVE AN UNDERSTANDING OF THE VARIOUS ELEMENTS OF WORK INCLUDED IN THE PROJECT, AS IS NOT INTENDED TO BE ALL-INCLUSIVE. DETAILED DESCRIPTIONS OF WORK AND REQUIREMENTS ARE GIVEN IN DRAWINGS AND SPECIFICATIONS.

B. SCOPE OF WORK:

1. GENERAL: THE 'SOUTH TEXAS COLLEGE – NAH CAMPUS CLE CONVERSION ' CONSISTS OF AN EXISTING BUILDING REMODEL APPROXIMATELY 1,927 FT2.
2. ELECTRICAL: PROVIDE ALL MATERIALS AND LABOR ASSOCIATED WITH COMPLETE OPERATIONAL ELECTRICAL DISTRIBUTION SYSTEM. MAJOR ITEMS OF WORK INCLUDE, BUT ARE NOT LIMITED TO:
   (a) ELECTRICAL SERVICE: EXISTING DISTRIBUTION PANELBOARDS TO REMAIN WITH MODIFICATIONS.
   (b) DEMOLITION: PROVIDE AS NOTED ON DRAWINGS.
   (c) LIGHTING SYSTEMS: INTERIOR LIGHTING SYSTEMS SHALL CONSIST OF LED TYPE.
   (d) POWER SYSTEMS: PROVIDE MISCELLANEOUS DUPLEX RECEPTACLES AND CONNECTIONS FOR HVAC EQUIPMENT.
   (e) FIRE ALARM SYSTEM: 'EXPAND/MODIFY' EXISTING ADDRESSABLE CONTROL PANEL CAPABILITIES TO ACCOMMODATE NEW INDICATING AND INITIATING DEVICES. INDICATING DEVICE SHALL BE PROVIDED TO COMPLY WITH TDLR.
   (f) COMMISSIONING: PROVIDE FOR THE LIGHTING EQUIPMENT AND LIGHTING CONTROLS AS REQUIRED PER IECC 2015.
   (g) COMMUNICATIONS AND DATA PROCESSING EQUIPMENT: PROVIDE ROUGH-INS ONLY. CABLING, CONNECTORS, PATCH PANELS, RACKS, ETC. BY OWNER.

SUBMITTALS –SPECIAL REQUIREMENTS

A. MANUFACTURER'S STANDARD DIMENSIONED DRAWINGS, PERFORMANCE AND PRODUCT DATA SHALL BE EDITED TO DELETE REFERENCE TO EQUIPMENT, FEATURES, OR INFORMATION, WHICH IS NOT APPLICABLE TO THE EQUIPMENT BEING SUPPLIED FOR THIS PROJECT. INCLUDING BILL OR LIST OF MATERIALS.

B. FAXES AND COPIES OF FAXES ARE NOT ACCEPTABLE.

C. ELECTRICAL SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY. PLEASE ORGANIZE THE FILES IN PACKAGES AS FOLLOWS (PDF FORMAT). FILES WOULD NEED TO BE PROPERLY IDENTIFIED (COVER LETTER, STAMPED, ETC.) FROM THE GENERAL CONTRACTOR.

1. MISCELLANEOUS ELECTRICAL
   a. 260519 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
   b. 260526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
   c. 260529 HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
   d. 260533 RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS
   e. 260544 SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING
   f. 260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS
   g. 262726 WIRING DEVICES
2. ELECTRICAL GEAR
   a. 262816 ENCLOSED SWITCHES AND CIRCUIT BREAKERS
3. LIGHT FIXTURES
   a. 260923 LIGHTING CONTROL DEVICES
   b. 265116 INTERIOR LIGHTING
   c. 265219 EMERGENCY AND EXIT LIGHTING
4. SPECIAL SYSTEMS
   a. 267240 FIRE ALARM SYSTEM
5. ELECTRICAL COMMISSIONING
   a. 260800 COMMISSIONING OF ELECTRICAL SYSTEMS

LIGHTING SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	2'X2' LIGHT FIXTURE – TYPE AS NOTED	– – – –
	EMERGENCY 2'X2' LIGHT FIXTURE–TYPE AS NOTED CONNECT BATTERY PACK TO BE ON AT ALL TIMES (UNSWITCHED)	– – – –
	PENDANT OR RECESSED LIGHT FIXTURE – TYPE AS NOTED	– – – –
	SINGLE FACE EXIT SIGN CEILING OR WALL MOUNTING (DIRECTIONAL ARROWS WHERE INDICATED)	12" ABV. EGRESS OPENING

NOTES:

1.) REFERENCE LIGHT FIXTURE SCHEDULE FOR ALL MOUNTING HEIGHTS.

WIRING DEVICES SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	DUPLEX RECEPTACLE TAMPER RESISTANT – HUBBELL MODEL #8300XTR	18"AFF
	JUNCTION BOX W/ BLANK COVERPLATE	AS REQUIRED
FS	DUPLEX RECEPTACLE FOR FLAT SCREEN – HUBBELL MODEL #CR5352X SEE FLAT SCREEN SPECIAL SYSTEMS SYMBOL FOR BACK BOX	72"AFF

NOTES:

1.) U.N.O. INDICATES UNLESS NOTED OTHERWISE.
18" AFF INDICATES TO TOP OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

GENERAL SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO
	CONDUIT OR EMT HOMERUN TO PANELBOARD CONCEALED IN WALLS OR ABOVE CEILING. LONG CROSSMARKS DENOTE NUMBER OF "HOT" CONDUCTORS SHORT CROSSMARKS INDICATE NEUTRALS AND DOTS INDICATE NUMBER OF GROUND CONDUCTORS. ARROW INDICATES HOME RUN TO ELECTRICAL PANEL.	AS REQUIRED
	ELECTRICAL PANELBOARD – SURFACE MOUNTED	AS REQUIRED

FIRE ALARM SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
PS	FIRE ALARM MANUAL PULLSTATION – PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	48"AFF
AV AV	FIRE ALARM STROBE HORN CEILING OR WALL MOUNTED – PROVIDE 15/75 CANDELA U.N.O. – PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	80"AFF
V V	FIRE ALARM STROBE LIGHT CEILING OR WALL MOUNTED – PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	80"AFF
SD SD	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED – PROVIDE BACKBOX WITH 1/2"C AND PULLWIRE.	CLG.

NOTES:

1.) 48" AFF INDICATES TO TOP OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

WIRING DEVICES SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
S	SINGLE POLE TOGGLE SWITCH – HUBBELL MODEL #HBL1221X	48"AFF
S_3	THREE WAY TOGGLE SWITCH – HUBBELL MODEL #HBL1223X	48"AFF
S_4	FOUR WAY TOGGLE SWITCH – HUBBELL MODEL #HBL1224X	48"AFF

NOTES:

1.) 48" AFF INDICATES TO TOP OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

SPECIAL SYSTEMS SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
FS	3-GANG FLAT SCREEN OUTLET – PROVIDE LARGE CAPACITY WALL BOX HUBBEL MODEL NO. HBL263 WITH 1.5" RACEWAY STUBBED INTO ACCESSIBLE CLG., PULL WIRE, MUD RING AND HBL981 LOW VOLTAGE DIVIDER.	72"AFF
##	VOICE OVER IP/DATA OUTLET – PROVIDE BACK BOX W/ 1" RACEWAY STUBBED INTO ACCESSIBLE CLG. W/ PULL WIRE – SEE DETAIL. NUMBER INDICATES AMOUNT OF DROPS FOR EACH.	18"AFF

NOTES:

1.) 48" AFF INDICATES TO TOP OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

ACUITY CONTROL SYMBOLS:

S_{VS}	VACANCY DIMMING WALL SENSOR SWITCH – ACUITY MODEL #WSX PDT D SA X. PROVIDE 0-10V SIGNAL WIRE IN RACEWAY FROM SWITCH TO EACH CONTROLLED LIGHT FIXTURE.	48"AFF
nLIGHT 4P DX SWITCH	DIMMING/TOGGLE WALL SWITCH STATION – nLIGHT MODEL #nPODM 4P DX X. PROVIDE CAT5 CONTROL WIRE IN RACEWAY FROM SWITCH TO POWER PACK.	48"AFF
PP	POWER/RELAY PACK – nLIGHT MODEL #nPP16 DS. PROVIDE 0-10V SIGNAL WIRE IN RACEWAY FROM POWER PACK TO EACH CONTROLLED LIGHT FIXTURE.	ABV. CLG.
DT S	DUAL TECH 360° STANDARD RANGE VACANCY SENSOR – nLIGHT MODEL #nCM PDT 9. PROVIDE CAT5 CONTROL WIRE FROM SENSOR TO POWER PACK.	CLG.

NOTES:

1.) 48" AFF INDICATES TO TOP OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE. REFERENCE LIGHTING CONTROL SCHEMATIC DETAILS FOR ALL NLIGHT CONTROLS WIRING REQUIREMENTS.

ABBREVIATIONS:

A	AMPS	EF	EXHAUST FAN	INT.	INTRUSION DETECTION
ABC	ABOVE CEILING LINE	EXT.	EXTERNAL OR EXTERIOR	NTS	NOT TO SCALE
AC	ABOVE COUNTER BACKSPLASH	FACP	FIRE ALARM CONTROL PANEL	MECH	MECHANICAL
ACCU	AIR COOLED CONDENSING UNIT	FCU	FAN COIL UNIT	PH	PHASE
AFF	ABOVE FINISHED FLOOR	FD	FIRE DAMPER	RM.	ROOM
B.	BOTTOM	FS	FLAT SCREEN	SS	STAINLESS STEEL
BLC.	BELOW CEILING LINE	G.	GROUND	TSTAT	THERMOSTAT
C.	CONDUIT OR COMMON	GA.	GAGE	UG	UNDERGROUND
CLG.	CEILING	GRND.	GROUND	UNO	UNLESS OTHERWISE NOTED
COND.	CONDUIT	HVAC	HEATING, VENTILATION, & AIR CONDITIONING	V	VOLTS
IG	ISOLATED GROUND			W	WIRE

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SHEET TITLE
ELECTRICAL SYMBOLS LEGEND & ABBREVIATIONS
PROJECT NAME
NAH CAMPUS CLE CONVERSION STC PROJECT #18-19-1037
OWNER
SOUTH TEXAS COLLEGE
PROJECT ADDRESS
1101 E VERMONT McALLEN, TEXAS 78503

ISSUE DATE
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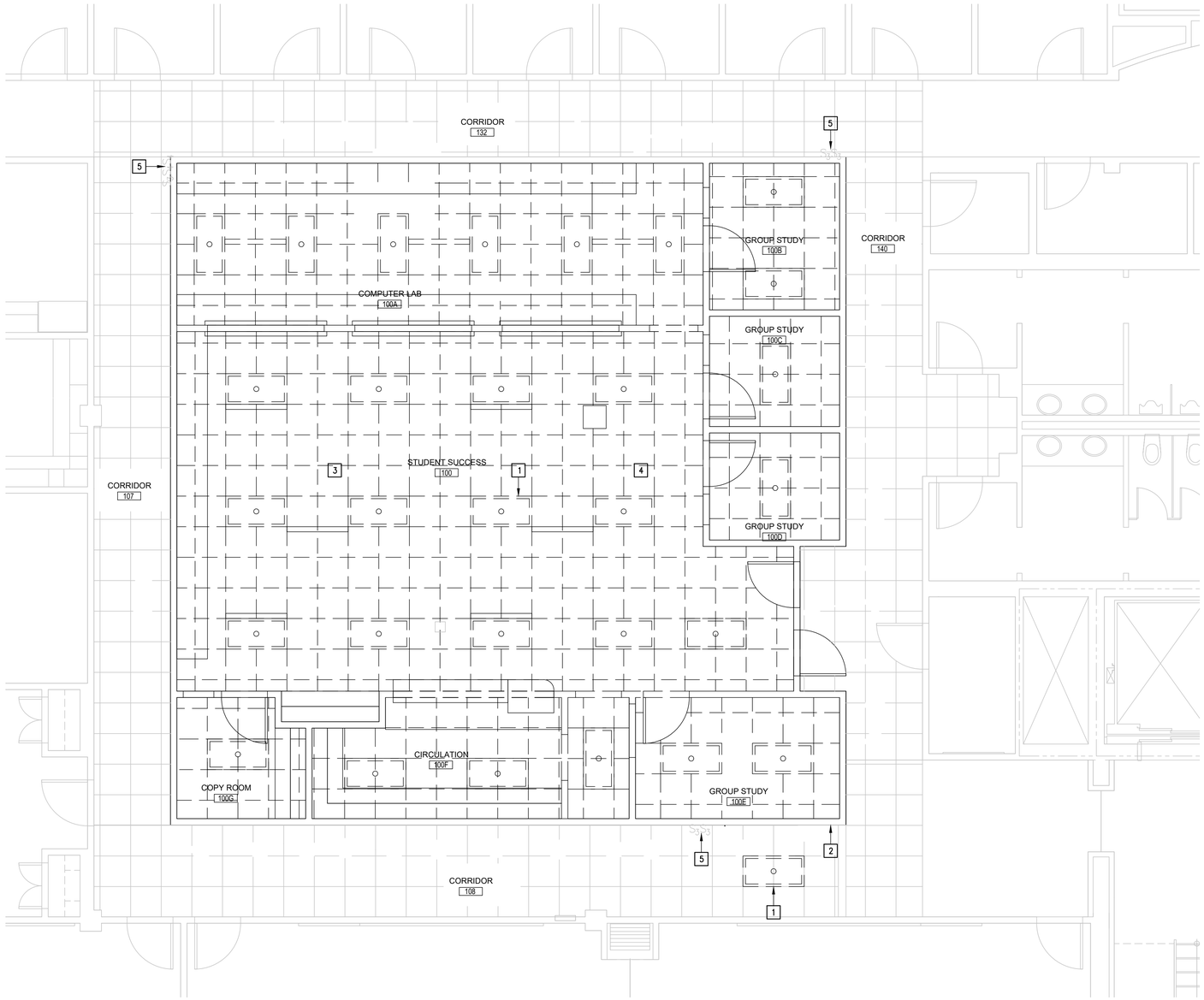


PROPOSED ELECTRICAL DEMOLITION PLAN

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

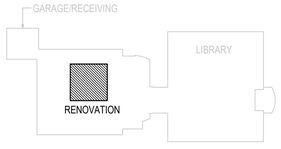
A1

GENERAL NOTES:

1. REMOVED MATERIALS SHALL BELONG TO OWNER. DELIVER THEM TO OWNERS DESIGNATED LOCATION. IF OWNER DOES NOT WANT THE REMOVED MATERIALS THEN REMOVE THEM FROM SITE & PROPERLY DISPOSE OF THEM.
2. CONTRACTOR SHALL REMOVE & DISPOSE OF ALL EXISTING ELECTRICAL EQUIPMENT, CONDUIT & WIRING IN AREAS WHERE WORK IS TO TAKE PLACE, EVEN IF NOT SPECIFICALLY INDICATED IN THIS DRAWING, UNLESS NOTED OTHERWISE IN DRAWINGS.
3. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR WALLS AND CEILINGS TO BE REMOVED.
4. IF REMOVAL OF EXISTING ELECTRICAL SYSTEMS RENDERS EXISTING ELECTRICAL SYSTEMS DOWNSTREAM TO REMAIN INOPERABLE, PROVIDE J-BOXES, CONDUIT WIRING AND SPLICES ABOVE ACCESSIBLE CEILINGS IN ORDER TO CONTINUE OPERATION.
5. REFER TO ARCHITECTURAL SPECIFICATIONS FOR PHASING REQUIREMENTS.
6. CONTRACTOR TO COOPERATE WITH OWNER DURING CONSTRUCTION OPERATION TO MINIMIZE CONFLICTS AND FACILITATE OWNER USAGE. PERFORM THE WORK SO AS NOT TO INTERFERE WITH OWNERS OPERATIONS.
7. CONTRACTOR SHALL PROVIDE AN INVENTORY OF ALL EXISTING LIGHTING PRIOR TO REMOVAL. CONTRACTOR SHALL NOTE BY ROOM THE LIGHT FIXTURE TYPE & QUANTITY, LAMP TYPE AND QUANTITY PER FIXTURE. SUBMIT INVENTORY TO ENGINEER.
8. ITEMS DESIGNATED WITH AN "EX" ARE EXISTING TO REMAIN AS IS.

KEYED NOTES:

1. DISCONNECT EXISTING LIGHT FIXTURE FOR REMOVAL ALONG WITH RELATED CONDUIT WIRE AND SUPPORT HARDWARE. PROVIDE A LIGHTING INVENTORY AS PER GENERAL NOTES – TYPICAL.
2. DISCONNECT EXISTING LIGHT SWITCHES FOR REMOVAL ALONG WITH RELATED CONDUIT WIRE AND SUPPORT HARDWARE – TYPICAL.
3. DISCONNECT ALL EXISTING ELECTRICAL AND SPECIAL SYSTEMS (FIRE ALARM, INTRUSION, VOICE/DATE, ETC.) DEVICES LOCATED ON EXISTING WALLS AND CEILINGS FOR REMOVAL ALONG WITH RELATED CONDUIT WIRE AND SUPPORT HARDWARE – TYPICAL.
4. DISCONNECT EXISTING ELECTRICAL OUTLETS FOR REMOVAL ALONG WITH RELATED WIRE – TYPICAL.
5. EXISTING CORRIDOR LIGHTING SWITCHES TO BE REMOVED AND RELOCATED.



KEYPLAN

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SHEET TITLE
PROPOSED ELECTRICAL DEMOLITION PLAN

PROJECT NAME
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OWNER
SOUTH TEXAS COLLEGE

PROJECT ADDRESS
1101 E VERMONT McALLEN, TEXAS 78503

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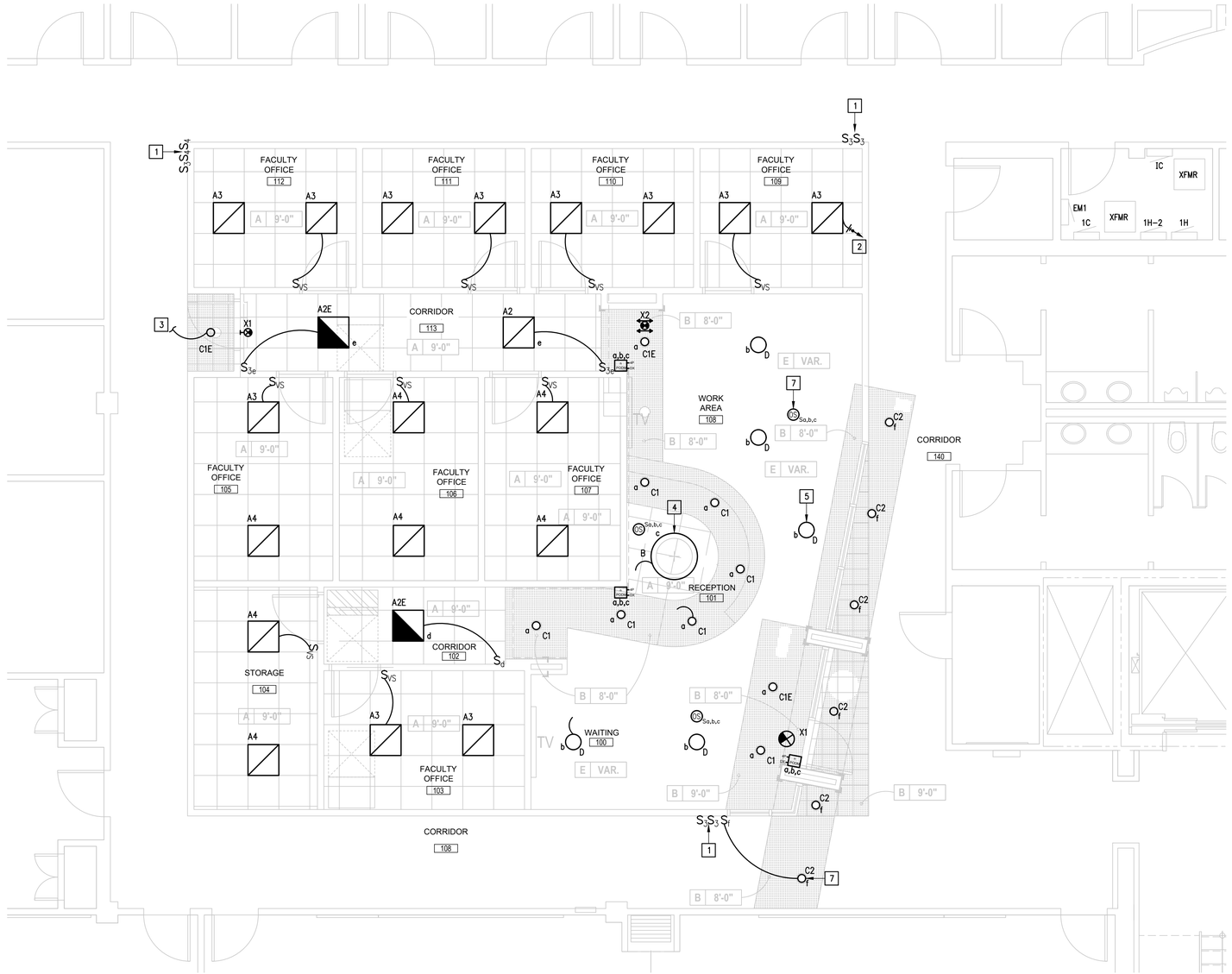


PROPOSED LIGHTING FLOOR PLAN

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

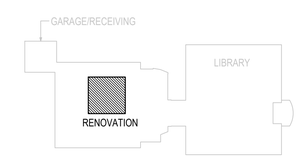
L1

GENERAL NOTES:

1. LIGHTING BRANCH CIRCUITS SHALL BE 3/4" – 2#12 & #12G. 20A/277V HOMERUNS EXCEEDING 200FT THE WIRE SIZE SHALL BE #10 & #8 FOR 275'. CONNECT TO EXISTING ROOM LIGHTING CIRCUIT.
2. INTERIOR LIGHTING CONTROLS SHALL BE BY VACANCY SENSORS.
3. MULTIPLE OCCUPANCY SENSORS CONTROLLING A SINGLE OR MULTIPLE SWITCH SCHEME AND POWER PACKS SHALL BE CONNECTED WITH CLASS II #18 WIRING IN 1/2" RACEWAY.
4. PROVIDE 0–10V SIGNAL WIRING TO EACH DIMMED LIGHT FIXTURE DRIVER AND WALL SWITCH.
5. PAINT ALL EXPOSED RACEWAYS, HANGERS, BOXES, SUPPORTS AND ACCESSORIES IN INTERIOR AND EXTERIOR EXPOSED AREAS. COORDINATE PAINT TYPE, COLOR AND SCOPE OF WORK WITH ARCHITECT.
6. ALL RACEWAYS IN EXPOSED CEILING AREAS SHALL BE CONCEALED TO MAXIMUM EXTENT POSSIBLE. CONCEAL RACEWAYS ABOVE SUSPENDED CEILING CLOUDS WHERE POSSIBLE. HORIZONTAL RACEWAY RUNS SHALL BE ROUTED BETWEEN STRUCTURAL STEEL Z–PURLINS.

KEYED NOTES:

1. EXISTING CORRIDOR LIGHTING SWITCHES AT NEW LOCATION. EXTEND RACEWAYS AND WIRING AS REQUIRED.
2. CONNECT TO A EXISTING LIGHTING CIRCUIT.
3. CONNECT TO EXISTING CORRIDOR LIGHTING.
4. SUSPEND LIGHT FIXTURE TYPE 'B' AT 8'–0"AFF TO BOTTOM OF FIXTURE.
5. SUSPEND LIGHT FIXTURE TYPE 'D' AT 12'–0"AFF TO BOTTOM OF FIXTURE.
6. PROVIDE THREADED ROD SUSPEND DEVICE TYPICAL. BOTTOM OF DEVICE SHALL MATCH HVAC DIFFUSERS.
7. CONNECT LIGHT FIXTURES TO EXISTING CORRIDOR LIGHTING CIRCUIT. VERIFY LOAD PRIOR TO ANY NEW CONNECTION.



KEYPLAN

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STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER

1.30.2019

SHEET TITLE
PROPOSED LIGHTING FLOOR PLAN

PROJECT NAME
NAH CAMPUS CLE CONVERSION STC PROJECT #18-19-1037

OWNER
SOUTH TEXAS COLLEGE

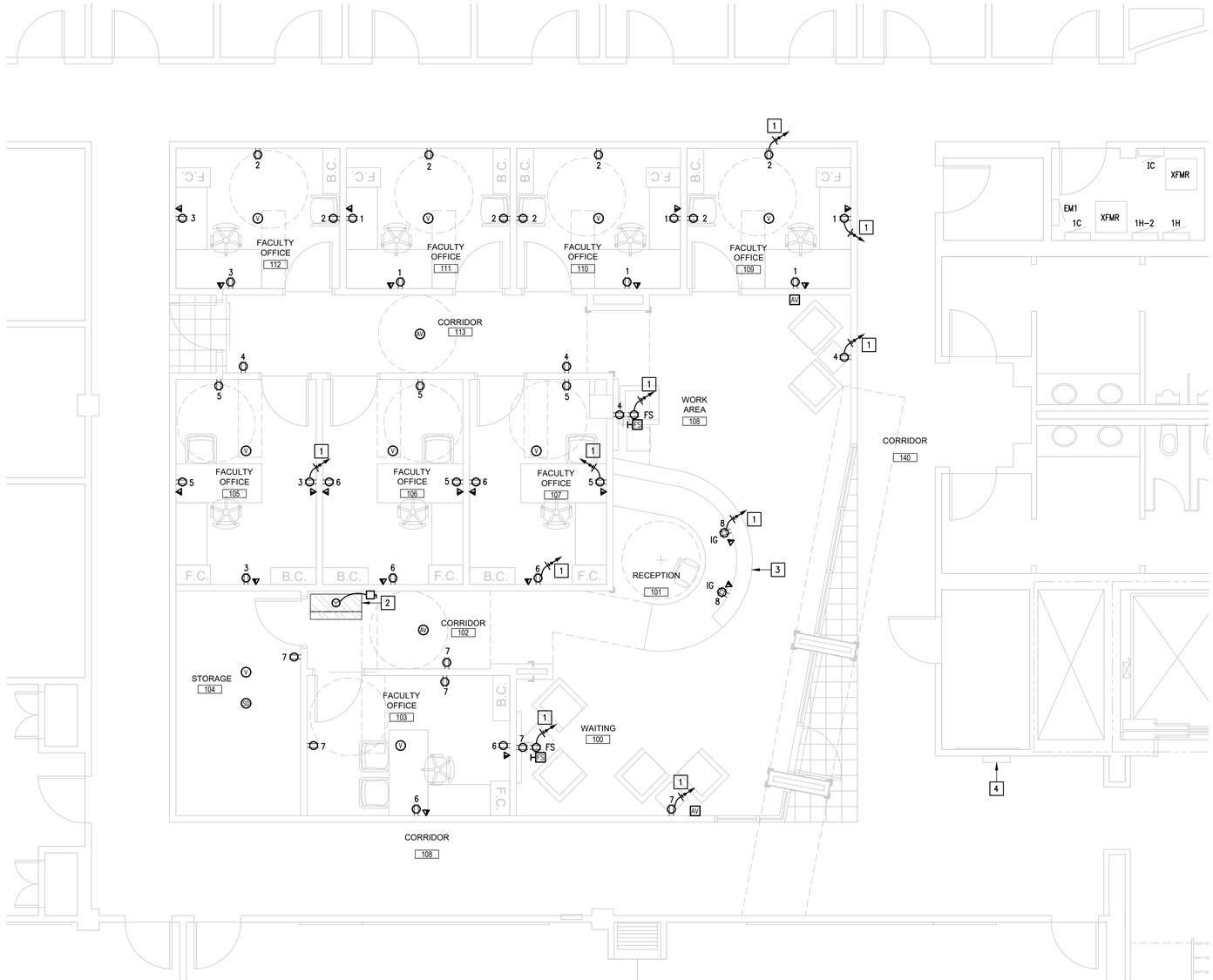
PROJECT ADDRESS
1101 E VERMONT McALLEN, TEXAS 78503

ISSUE DATE
JANUARY 30, 2019

PROJECT NO
1828

REVISIONS

SHEET NUMBER
E3.10



PROPOSED ELECTRICAL FLOOR PLAN

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

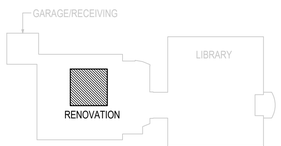
E1

GENERAL NOTES:

1. ELECTRICAL BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" – 2#12 & #12G. 20A/120V HOMERUNS EXCEEDING 100FT, THE WIRE SIZE SHALL BE #10 & #8 FOR 175'.
2. HOMERUNS – INSTALL NO MORE THAN THREE PER RACEWAY (INCLUDING LIGHTING BRANCH CIRCUITS); 3 INSULATED "HOT", 3 INSULATED "NEUTRAL AND 1 SHARED "GROUND".
3. PROVIDE ALL ELECTRICAL RECEPTACLES INSTALLED WITH THE GROUND OPENING IN THE "UP" POSITION.
4. EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.
4. PAINT ALL EXPOSED RACEWAYS, HANGERS, BOXES, SUPPORTS AND ACCESSORIES IN INTERIOR AND EXTERIOR EXPOSED AREAS. COORDINATE PAINT TYPE, COLOR AND SCOPE OF WORK WITH ARCHITECT.
5. ALL RACEWAYS IN EXPOSED CEILING AREAS SHALL BE CONCEALED TO MAXIMUM EXTENT POSSIBLE. CONCEAL RACEWAYS ABOVE SUSPENDED CEILING CLOUDS WHERE POSSIBLE. HORIZONTAL RACEWAY RUNS SHALL BE ROUTED BETWEEN STRUCTURAL STEEL Z-PURLINS.

KEYED NOTES:

1. CONNECT TO EXISTING PANELS "IC" & "1C". IT IS THE INTENT TO RETAIN AND REUSE EXISTING CIRCUITS SERVING THE AREA IN SCOPE OF WORK THAT ARE NO LONGER IN USE DUE TO DEMOLITION.
2. CONNECT NEW VAV TO EXISTING PANEL 1H-2 (CUTLER HAMMER TYPE PRL-2A). PROVIDE A 20A/1P BREAKER IN AVAILABLE SPACE. PROVIDE A 30A, 2PNF, 600V, S/N, NEMA 1 DISCONNECT ABOVE CEILING WALL MOUNTED ADJACENT TO VAV.
3. MOUNT WIRING DEVICES TO MILLWORK FACES. ALL RACEWAYS TO BE CONCEALED WITHIN MILLWORK WALL CAVITY. REFER TO ARCHITECTURAL MILLWORK DETAILS AND ELEVATIONS FOR WIRING DEVICES EXACT LOCATION AND MOUNTING HEIGHTS. COORDINATE INSTALLATION WITH MILLWORK CONTRACTOR PRIOR TO ANY ROUGH-IN – TYPICAL.
4. APPROXIMATE LOCATION OF EXISTING CERBERUS PYROTRONICS MXL-IQ FIRE ALARM CONTROL PANEL.



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TYPE A2,A2E,A3,A3E,A4 & A4E
LIGHT FIXTURE IMAGE

01 SCALE : NOT TO SCALE

TYPE B
LIGHT FIXTURE IMAGE

02 SCALE : NOT TO SCALE

TYPE C1, C1E, C2 & C2E
LIGHT FIXTURE IMAGE

03 SCALE : NOT TO SCALE

TYPE D
LIGHT FIXTURE IMAGE

04 SCALE : NOT TO SCALE

TYPE X1 & X2
LIGHT FIXTURE IMAGE

05 SCALE : NOT TO SCALE

WALL SWITCH STATION
TYPE nPODM DX

06 SCALE : NOT TO SCALE

POWER PACK
TYPE nPP16 D

07 SCALE : NOT TO SCALE

WALL SWITCH SENSOR
TYPE WSX D

08 SCALE : NOT TO SCALE

LUMINAIRE SCHEDULE

CALLOUT	LAMP	DESCRIPTION	DRIVER	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE	LUMEN MAINT.	LUMENS / LAMP
A2	LED	2'x2' FLAT PANEL	0-10V	SURFACE	LITHONIA: EPANL 2X2 2000LM 40K ZT MVOLT	20	MULTIPLE		LM-70	2030
A2E	LED	2'x2' FLAT PANEL	0-10V	SURFACE	LITHONIA: EPANL 2X2 2000LM 40K ZT MVOLT EL14L	20	MULTIPLE	PROVIDE WITH AN EMERGENCY BATTERY PACK.	LM-70	2030
A3	LED	2'x2' FLAT PANEL	0-10V	SURFACE	LITHONIA: EPANL 2X2 3400LM 40K ZT MVOLT	33	MULTIPLE		LM-70	3364
A4	LED	2'x2' FLAT PANEL	0-10V	SURFACE	LITHONIA: EPANL 2X2 4800LM 40K ZT MVOLT	36	MULTIPLE		LM-70	4578
B	LED	DECORATIVE PENDANT	0-10V	CABLE	DELRAY: 6713 S W40 BDIM-W11 SR	51	277V 1P 2W			3780
C1	LED	6" DOWNLIGHT	0-10V	RECESSED	LITHONIA: LDN6 40/10 L06 AR LSS MVOLT GZ10 TRW	35	277V 1P 2W	PROVIDE WITH 24" BAR HANGERS, A WHITE PAINTED FLANGE AND AN EMERGENCY BATTERY PACK.	LM-70	1000
C1E	LED	6" DOWNLIGHT	0-10V	RECESSED	LITHONIA: LDN6 40/10 L06 AR LSS MVOLT GZ10 TRW ELSD	35	277V 1P 2W	PROVIDE WITH 24" BAR HANGERS, A WHITE PAINTED FLANGE AND AN EMERGENCY BATTERY PACK.	LM-70	1000
C2	LED	6" DOWNLIGHT	0-10V	RECESSED	LITHONIA: LDN6 40/05 L06 AR LSS MVOLT GZ10 TRW	35	277V 1P 2W	PROVIDE WITH 24" BAR HANGERS, A WHITE PAINTED FLANGE AND AN EMERGENCY BATTERY PACK.	LM-70	500
D	LED	6" CYLINDER	0-10V	PENDANT	GOTHAM: ICO CYL 40/35 6AR _ 70D MVOLT EZB PM X CYSX	55	277V 1P 2W	STANDARD COLOR FINISH TO BE SELECTED AT A LATER DATE.	LM-70	3500
X1	LED	SINGLE SIDED EXIT SIGN		WALL	LITHONIA: LE S W 1 R EL N SD MULE LIGHTING: MD-B-1-R-BA-SD	2	277V 1P 2W	PROVIDE WITH A UNIVERSAL MOUNTING CANOPY, LIGHT EMITTING DIODES, & A NI-CAD BATTERY PACK.		0
X2	LED	DOUBLE SIDED EXIT SIGN		WALL/CEILING	LITHONIA: LE S W 2 R EL N SD MULE LIGHTING: MD-B-2-R-BA-SD	2	277V 1P 2W	PROVIDE WITH A UNIVERSAL MOUNTING CANOPY, LIGHT EMITTING DIODES, & A NI-CAD BATTERY PACK.		0

GENERAL NOTES:
1. OTHER LIGHT FIXTURE MANUFACTURERS THAN THOSE LISTED ON THIS SCHEDULE ARE REQUIRED TO OBTAIN PRIOR APPROVAL BY SUBMITTING CUT SHEETS OF THEIR SUBSTITUTIONS AT LEAST (10) DAYS PRIOR TO BID. CUT SHEETS SHALL INDICATE/HIGHLIGHT PHOTOMETRIC CURVE, EFFICIENCY & CONSTRUCTION FOR DIRECT COMPARISON WITH SPECIFIED FIXTURES.
2. EXTRA MATERIALS: SEE SPECIFCATIONS.
3. EMERGENCY BATTERY PACKS SHALL BE COMPLETE FACTORY INSTALLED WITH NI-CAD BATTERY, CHARGER INDICATING LIGHT, ELECTRONIC CIRCUITRY, 1400 LUMENS OUTPUT, 90 MINUTES DURATION & FIVE FULL YEARS WARRANTY.
4. FURNISH ALL 2' X 2' LAY-IN LIGHT FIXTURES WITH INTEGRAL CEILING CLIPS.

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SHEET TITLE
PROPOSED LUMINAIRE SCHEDULE & IMAGES
PROJECT NAME
NAH CAMPUS CLE CONVERSION STC PROJECT #18-19-1037
OWNER
SOUTH TEXAS COLLEGE
PROJECT ADDRESS
1101 E VERMONT McALLEN, TEXAS 78503

ISSUE DATE
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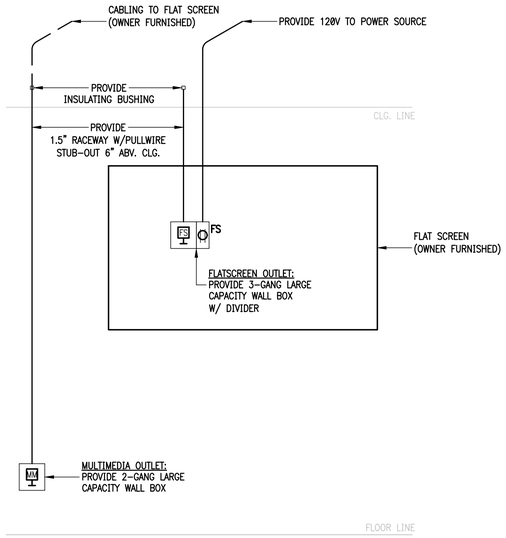
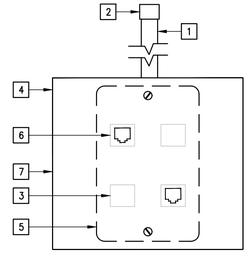


07 TYPICAL FLAT SCREEN DETAIL

SCALE : NOT TO SCALE

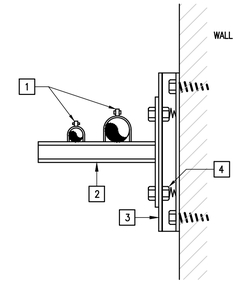


KEYED NOTES:

1. PROVIDE 1" EMT STUBBED ABOVE CLG.
2. PROVIDE INSULATING BUSHING
3. PROVIDE BLANK FILLER COVER
4. PROVIDE COVERPLATE
5. PROVIDE STEEL MUD RING
6. CATEGORY SIX JACK – PROVIDED BY OWNER
7. PROVIDE 4"X4"X2-5/8" DEEP BOX

04 TYPICAL DATA/TELEPHONE OUTLET DETAIL

SCALE : NOT TO SCALE

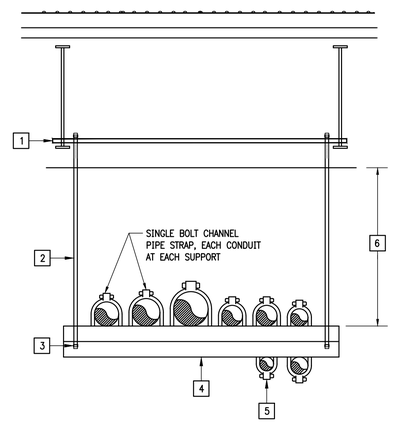


KEYED NOTES:

1. PROVIDE CONDUIT CLAMPS.
2. PROVIDE GALVANIZED UNISTRUT WALL BRACKET.
3. PROVIDE RAMSET OR BOLT GALVANIZED UNISTRUT TO WALL.
4. PROVIDE SELF HOLDING CLAMPING NUT WITH SPRING.

01 RACEWAY RUNS SUPPORT DETAIL

SCALE : NOT TO SCALE



KEYED NOTES:

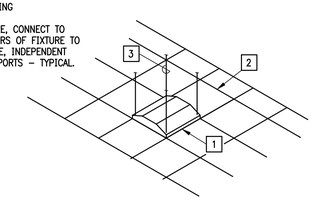
1. PROVIDE UNISTRUT STRUCTURAL CHANNEL SECURED TO TO JOIST AT BOTH ENDS.
2. PROVIDE 1/2" GALVANIZED THREADED ROD MINIMUM.
3. PROVIDE LOCKNUT.
4. PROVIDE GALVANIZED UNISTRUT 8'-0" O/C MAXIMUM.
5. 0'-1" MAXIMUM SIZE ON BOTTOM OF UNISTRUT.
6. VARIES.

05 HORIZONTAL RACEWAYS SUPPORT DETAIL

SCALE : NOT TO SCALE

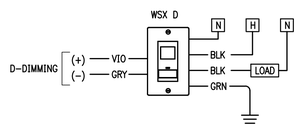
KEYED NOTES:

1. PROVIDE 2' X 2' LAY-IN LIGHT FIXTURE
2. SUSPENDED CEILING
3. PROVIDE TIE WIRE, CONNECT TO ALL FOUR CORNERS OF FIXTURE TO STRUCTURE ABOVE, INDEPENDENT OF CEILING SUPPORTS – TYPICAL.



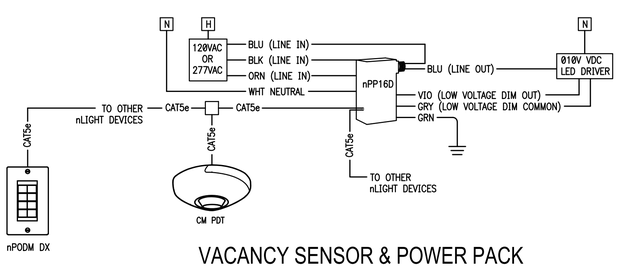
02 TYPICAL LAY-IN FIXTURE SUPPORT

SCALE : NOT TO SCALE



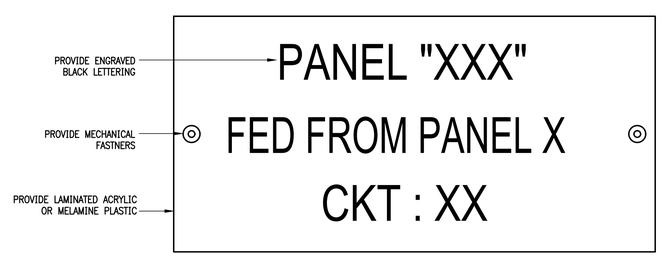
08 VACANCY WALL SWITCH SENSOR WIRING DETAIL

SCALE : NOT TO SCALE



09 VACANCY SENSOR & POWER PACK WIRING DETAIL

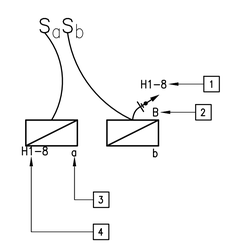
SCALE : NOT TO SCALE



NOTE: ATTACH NAMEPLATES TO ALL ELECTRICAL GEAR AS NOTED ON SECTION 260553.

06 EQUIPMENT IDENTIFICATION LABEL DETAIL

SCALE : NOT TO SCALE



KEYED NOTES:

1. CIRCUIT HOMERUN
2. FIXTURE TYPE – REFER TO LIGHT FIXTURE SCHEDULE
3. INDICATES SWITCH CONTROLLING LIGHT FIXTURE.
4. INDICATES BRANCH CIRCUIT LIGHT FIXTURE IS CONNECTED TO

03 LIGHTING LEGEND DETAIL

SCALE : NOT TO SCALE

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