CONSTRUCTION DOCUMENTS
6504A

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NEW CONSTRUCTION
PATRICK DAVIS DENTAL OFFICE
TUSCALOOSA, ALABAMA

NOVEMBER 25, 2008

Karlsberger

Karlsberger Architecture Inc.
2509 Seventh Ave South Birmingham, AL 35233-3319 205 / 252-9191

6504A TUSCALOOSA, AL CONSTRUCTION DOCUMENTS 11/25/08 - BID SET

SHEET NO.

PROJECT NO.

DATE

ABBREVIATIONS

A	ADDEUNDUM
ACD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AG	ACCESS GROMMET
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACCESS PANEL
APC	ACOUSTIC PANEL CEILING
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT
AVG	AVERAGE
B&B	BALLED & BURLAPPED
BC	BOTTOM OF CURB
BCS	BASE CASSETTE STORAGE
BL	BORROWED LITE
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BN	BULLNOSE
BOT	BOTTOM
BP	BASE PLATE
BSMT	BASEMENT
BW	BOTTOM OF WALL
CC	CUBICAL CURTAIN
C/C	CENTER TO CENTER
CAB	CABINET
CAL	CALIPER
CB	CATCH BASIN
CCT	CUBICLE CURTAIN TRACK
CEMBD	CEMENT BOARD
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CG	CORNER GUARD
CH	COAT HOOK
CHL	CHANNEL
CIP	CAST-IN-PLACE (CONCRETE)
CJ	CONTROL JOINT
CKBD	CHALKBOARD
CLG	CEILING
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CR	CHART RACK
CRT	COMPUTER TERMINAL
CSWK	CASEWORK
CT	CERAMIC TILE
CTB	COUNTERTOP BRACE
CTSK	COUNTERSUNK
CU	CUBIC
CW	COLD WATER
D	DOOR BASE CABINET
DBL	DOUBLE
DD	DRAWER/DOOR BASE CABINET
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DFB	DRAWER/FILE BASE CABINET
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DO	DRAWER/OPEN
DP	DEEP
DPR	DRAPERY ROD
DR	DOOR
DRS	DOOR(S) SLIDING
DS	DOWNSPOUT
DWG	DRAWING
EA	EACH
ED	EQUAL DRAWERS
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EM	EMERGENCY POWER
EMER	EMERGENCY
EP	ELECTRICAL PANEL
EQ	EQUAL
EQPT	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FILLER PIECE–¾"MIN–2½"MAX
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FB	FILM BIN
FD	FLOOR DRAIN
FDA	FREE DRAINING AGGREGATE
FDN	FOUNDATION
FDR	FILE DRAWER W/HANGING FOLDER RACK
FDV	FIRE DEPARTMENT VALVE
FE	FINISHED END
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISH FLOOR ELEVATION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH
FIXT	FIXTURE
FLR	FLOOR
FP	FOOT PEDAL VALVE (BY PLUMBING)
FRG	FIRE RESISTANT GLAZING
FRTW	FIRE RETARTDANT TREATED WOOD
FT	FOOT (FEET)
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FVC	FIRE VALVE CABINET
FZR	FREEZER
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACT(OR)
GD	GLASS DOOR CABINET
GL	GLASS
GR	GRADE
GYP	GYPSUM
GYPBD	GYPSUM BOARD
H	HIGH
HB	HOSE BIB
HD	DOOR WALL CABINET
HDCP	HANDICAP(PED)
HGT	HEIGHT
HJS	HEAD, JAMB, & SILL
HORZ	HORIZONTAL
HP	HIGH POINT
HR	HANDRAIL
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
HZ	OPEN CABINET WITH HORIZONTAL SLOTS
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATION
INT	INTERIOR
IP	IRON PIPE
IVT	IV TRACK
JAN	JANITOR
JC	JANITOR CLOSET
JT	JOINT
KBS	KEYBOARD SHELF
KOP	KNOCK OUT PANEL
KS	KNEE SPACE
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LB	POUND
LF	LINEAR FEET
LG	LONG
LGT	LIGHT
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LVR	LOUVER
M	MIRROR
MAS	MASONRY
MATL	MATERIAL(S)
MAX	MAXIMUM
MC	MICROWAVE CABINET
ME–	MEDICAL EQUIPMENT
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MEZZ	MEZZANINE
MF	MOBILE DRAWER/FILE CABINET
MFR	MANUFACTURER
MH	MAN HOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MKBD	MARKERBOARD
MO	MASONRY OPENING
MS	MONITOR SHELF
MTD	MOUNTED
MTL	METAL
NC	NURSE CALL
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NL	NARCOTICS LOCKER (ELECTRICAL CONNECTIONS REQUIRED)
NLWL	NARCOTICS LOCKER WARNING LIGHT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	OPEN FACE CABINET
O/O	OUT TO OUT
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OSC	OPEN SINK CABINET
OV	OPEN CABINET W/VERTICAL SLOTS
OZ	OUNCE
PD	PENCIL DRAWER
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
POS	POSITIVE
PP	POWER POLE
PR	PAIR
PS	PEDESTAL SUPPORT PANEL
PTD	PAINTED
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION
PTW	PRESERVATIVE TREATED WOOD
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
R	RISER
RB	REMOVABLE RACK
R/W	RIGHT OF WAY
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCE(MENT)
REQD	REQUIRED
RES	RESILIENT
REV	REVISION
RM	ROOM
RO	ROUGH OPENING
S	SINK
SB	SINK BASE CABINET
SC	STORAGE CABINET
SCH	SCHEDULE
SCT	SHOWER CURTAIN TRACK
SD	SOAP DISPENSER
SDC	SLIDING DOOR CABINET
SE	SHOWER SEAT
SECT	SECTION
SF	SQUARE FOOT(FEET)
SHL	SHELF
SHT	SHEET
SI	SQUARE INCH
SIM	SIMILAR
SN	SANITARY NAPKIN DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SPB	SPECIMEN BOX
SPD	SRPEAD
SPEC	SPECIFICATION(S)
SPR	SPRINKLER(S)
SQ	SQUARE
SR	SHOWER ROD
SS	SOLID SURFACING
ST	STREET
STA	STATION
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STO	STORAGE
STR	STRUCTURE
STSTL	STAINLESS STEEL
SUSP	SUSPENDED/SUSPENSION
SY	SQUARE YARD
SYM	SYMMETRICAL
T	TREAD
T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TC	TOP OF CURB
TD	TOWEL DISPENSER
TEMP	TEMPORARY
TERR	TERRAZZO
TKBD	TACKBOARD
TL	TASK LIGHT
TLT	TOILET
TOS	TOP OF STEEL
TPD	TOILET PAPER HOLDER or DISPENSER
TR	TRASH RECEPTACLE
TRANS	TRANSFORMER
TS	TACK SURFACE
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
UC	UNDERCOUNTER
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIN	VINYL
VP	VISION PANEL
VPLAS	VENEER PLASTER
VT	VERTICAL PIGEON HOLE SLOTS
W	WIRE PASS THROUGH COVER
W/	WITH
W/O	WITHOUT
WD	WOOD
WGT	WEIGHT
WP	WALL PROTECTION
WR	WARDROBE CABINET
WS	WIRE SHELVING
WSCT	WAINSCOT
WWF	WELDED WIRE FABRIC
YD	YARD DRAIN / YARD (UNIT)

SYMBOLS

℄	CENTER LINE
&	AND
∠	ANGLE
ø	DIAMETER
#	POUND OR NUMBER
@	AT
±	PLUS OR MINUS
℄	PLATE OR PROPERTY LINE

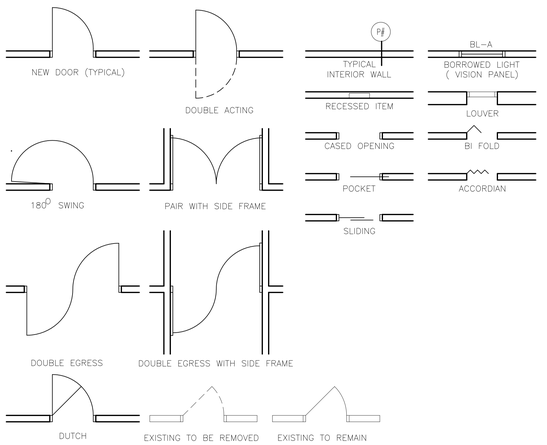
GRAPHIC SYMBOLS

- SECTION NUMBER / SHEET NUMBER
- SECTION NUMBER (SAME SHEET)
- ELEVATION NUMBER / SHEET NUMBER
- ELEVATION NUMBER (SAME SHEET)
- ENLARGED PLAN/DETAIL NUMBER / SHEET NUMBER
- GLAZING & FRAME TYPE
- ENLARGED PLAN/DETAIL NUMBER (SAME SHEET)
- SHEET NUMBER (MATCH LINE)
- NEW COLUMN GRID LINE DESIGNATION
- EXISTING COLUMN GRID LINE DESIGNATION
- DATUM LINE
- CODED NOTE NUMBER
- ADDITIONAL NOTE–SPECIFIC TO THE DESIGNATED PARTITION
- PARTITION TYPE NUMBER
- CHANGE ORDER (C.O.) OR, ADDENDUM (A) OR, SUPPLEMENTAL INSTRUCTIONS (S.I.) / REVISION ISSUE NUMBER
- MEDICAL EQUIPMENT (ME–) NUMBER
- HIDDEN, FUTURE, OR EXISTING TO BE REMOVED
- ANGLE OTHER THAN 90°
- BENCH MARK
- STARTING POINT
- SIGNAGE
- FIRE HYDRANT
- TEST BORING
- UTILITY POLE
- PROPERTY LINE
- SECURITY FENCE
- WOOD FENCE
- EXISTING CONTOUR
- NEW CONTOUR
- EXISTING ELEVATION
- NEW ELEVATION
- LIGHT STANDARD
- FINISH SYMBOL (XXX–X)

MATERIAL INDICATIONS/SECTION

- EARTH
- FREE DRAINING AGGREGATE
- CAST IN PLACE CONCRETE
- PRECAST CONCRETE
- BRICK
- CONCRETE MASONRY UNIT
- METAL (SMALL SCALE)
- METAL (LARGE SCALE)
- WOOD (ROUGH) CONTINUOUS
- WOOD (ROUGH) NON–CONTINUOUS
- WOOD (FINISHED)
- PLYWOOD
- PARTICLE BOARD
- INSULATION (BATT)
- INSULATION (RIGID)
- INSULATION (SPRAYED)
- EXISTING CONSTRUCTION
- SHAFT WALL
- ACOUSTICAL CEILING TILE /PANEL
- FIRESTOP MATERIAL

WALL AND DOOR LEGEND



GENERAL PROJECT NOTES

1. SITE INFORMATION IS BASED ON SURVEYS COMPLETED BY McGIFFERT AND ASSOCIATES,LLC , DATED 23RD DAY OF APRIL, 2008.
2. DO NOT SCALE DRAWINGS. IF DIMENSIONS CANNOT BE OBTAINED BASED ON DRAWING INFORMATION, CONSULT ARCHITECT.
3. CONTRACTORS TO FIELD VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE THE START OF CONSTRUCTION.
4. ALL DIMENSIONS ARE TO FINISHED FACE OF WALL AND COLUMN CENTER LINE UNO. WHERE DISCREPANCIES OCCUR BETWEEN FLOOR PLANS, DETAILS AND LARGE SCALE PLANS, CONSULT ARCHITECT FOR CLARIFICATION. WHERE DISCREPANCIES OCCUR BETWEEN ARCHITECTURAL DRAWINGS AND ENGINEERING DRAWINGS, CONSULT ARCHITECT FOR CLARIFICATION.
5. REFER TO THE L SERIES DRAWINGS FOR SHEET INDEX, ABBREVIATIONS, AND GRAPHIC SYMBOLS.
6. REFER TO LS SERIES DRAWINGS FOR FIRE RATED ASSEMBLIES, SMOKE COMPARTMENTS AND APPLICABLE CODE DATA.
7. REFER TO A1 SERIES SHEETS FOR DOOR AND BORROWED LIGHT ELEVATIONS AND DETAILS.
8. REFER TO A6 SERIES DRAWINGS FOR ARCHITECTURAL WOODWORK ELEVATIONS AND DETAILS.
9. ALL FIRE RATED PARTITION INTERSECTIONS WITH NON–RATED OR LOWER RATED PARTITIONS WILL CONTINUE THROUGH THE INTERSECTION.
10. ALL WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED.
11. ARCHITECTURAL DRAWINGS DO NOT NECESSARILY SHOW ALL FRAMING/STRUCTURAL COMPONENTS.
12. ALL MATERIALS AND INFORMATION NOTED ON ANY OF THE WALL SECTIONS OR DETAILS APPLY TO ALL OTHER SECTIONS AND DETAILS WHERE SIMILAR CONDITIONS OCCUR WHETHER NOTED OR NOT.
13. PROVIDE ALL TRANSITION STRIPS AND TERMINATION STRIPS AS REQUIRED AT CHANGE IN FLOOR MATERIAL TO ASSURE SMOOTH TRANSITION OF FINISHES. PROVIDE TRANSITION AT CENTERLINE OF DOORS WHERE POSSIBLE, UNO.
14. FINISHES NOTED ARE GENERAL FINISHES FOR ROOMS. ADDITIONAL FINISHES AND ACCENTS MAY BE REQUIRED AS PER DETAILS, PROJECT MANUAL, ELEVATIONS, AND ADDITIONAL NOTES.
15. CEILING AND SOFFIT HEIGHTS ARE SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
16. EQUIPMENT SHOWN AS DASHED IN PLAN OR ELEVATION IS OFOI (OWNER FURNISHED, OWNER INSTALLED). SEE EQUIPMENT REFERENCE BOOKS, DRAWINGS, AND PROJECT MANUAL FOR ADDITIONAL INFORMATION. CONTRACTOR TO COORDINATE INSTALLATION REQUIREMENTS. CONTRACTOR TO PROVIDE BLOCKING FOR MISCELLANEOUS EQUIPMENT AND FURNISHINGS.
17. COORDINATE ARCHITECTURAL WOODWORK AND INTERIOR ELEVATIONS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL DEVICES. CONTRACTOR IS RESPONSIBLE FOR ALL DEVICES, WHETHER SHOWN ON ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, OR FIRE PROTECTION DRAWINGS. BRING ANY QUESTIONS TO THE ATTENTION OF THE ARCHITECT.
18. INSTALL SUPPLEMENTARY FRAMING, WOOD BLOCKING / STRAPPING AND BRACING AS REQUIRED FOR SUPPORT OF FIXTURES, EQUIPMENT, TOILET ACCESSORIES, FURNISHINGS AND SIMILAR CONSTRUCTION.
19. EXTERIOR FINISHES – PROVIDE SEALANT (AND BACKER ROD WHERE NEEDED) AT JOINT BETWEEN ALL DISSIMILAR MATERIALS FOR AIR AND WATER TIGHT SEAL.

GENERAL REFLECTED CEILING PLAN NOTES

1. REFER TO THE PLUMBING, MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
2. REFER TO THE PROJECT MANUAL FOR DETAILED PRODUCT INFORMATION.
3. ALL FIXTURES AND DEVICES SHALL BE CENTERED IN CEILING PANELS UNO.
4. THE MINIMUM CEILING PANEL IS TO BE 6" WIDE. WHERE THIS IS NOT POSSIBLE, CONTRACTOR TO CONSULT ARCHITECT FOR CLARIFICATION.
5. REFER TO E–SERIES DRAWINGS FOR LIGHTING SCHEDULES.
6. THE ARCHITECTURAL CEILING PLANS ARE TO BE USED FOR COORDINATION OF ALL CEILING ELEMENTS INCLUDING MECHANICAL, ELECTRICAL, PLUMBING, AND MISCELLANEOUS DEVICES. WHERE DISCREPANCIES OCCUR BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS, CONSULT ARCHITECT FOR CLARIFICATIONS.
7. FOR NON–PATIENT ROOMS, CENTER CEILING SYSTEM IN ROOM. CEILING PANEL PATTERN IS TO BE SYMMETRICAL WITHIN THE ROOM OR AREA UNO OR DIMENSIONED.

UTILITIES LEGEND

SEE ME&P DRAWINGS

CABINET DESIGNATIONS LEGEND

PL–12 SEE FINISH COLOR SCHEDULE FOR MATERIAL COLOR

GENERAL INTERIOR ARCHITECTURAL WOODWORK NOTES

1. PROVIDE A CONTINUOUS CLEAT ALONG COUNTERTOP BACKS AND ENDS. FASTEN COUNTERTOP TO CLEAT AND COUNTER BRACES.
2. PROVIDE COUNTER BRACES (CTB) AS REQUIRED OR AT 2'–8" OC UNLESS NOTED OTHERWISE, AS SHOWN ON A5 SHEETS.
3. ALL 24" HIGH WALL CABINETS SHALL HAVE (1) ADJUSTIBLE SHELF, UNO.
4. ALL 30" HIGH WALL CABINETS SHALL HAVE (2) ADJUSTIBLE SHELVES, UNO.
5. ALL BASE CABINETS (EXCLUDING SINK BASE) SHALL HAVE (1) ADJUSTIBLE SHELF.
6. ARCHITECTURAL WOODWORK AND INTERIOR ELEVATIONS ARE FOR DESIGN INTENT ONLY. FIELD MEASURE ALL AREAS THAT RECEIVE ARCHITECTURAL WOODWORK AFTER INSTALLATION OF NEW WALLS. DO NOT SCALE THE DRAWINGS. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN DRAWING AND FIELD CONDITIONS.
7. ARCHITECTURAL ELEVATIONS ARE NOT INCLUSIVE OF ALL WALL MOUNTED DEVICES. SEE PLUMBING, MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
8. FOR ALL WALL MOUNTED ITEMS TO BE PROVIDED BY OWNER, THE CONTRACTOR WILL PROVIDE NECESSARY BLOCKING AND/OR REINFORCEMENT.
9. COORDINATE REQUIRED DIMENSIONS FOR MEDICAL EQUIPMENT.
10. SIZE AND LOCATION OF GROMMETS IN CASEWORK TO BE COORDINATED WITH THE OWNER PRIOR TO WOODWORK FABRICATION.
11. PROVIDE SEALANT (PAINTABLE) AT CONNECTION OF ALL DISSIMILAR MATERIALS, INLCUDING BUT NOT LIMITED TO: HOLLOW METAL FRAME TO DRYWALL & CASEWORK TO GYP BD.

INDEX OF DRAWINGS

GENERAL DRAWINGS

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L1 LEGEND
LS 01 LIFE SAFETY PLAN AND CODE INFO

CIVIL DRAWINGS

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C 02 SITE UTILITY PLAN
C 03 STANDARD DETAILS
C 04 STANDARD DETAILS
C 05 STANDARD DETAILS

ARCHITECTURAL DRAWINGS

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A1 01 FLOOR PLAN
A1 02 REFLECTED CEILING PLAN
A1 03 ATTIC PLAN
A1 04 ROOF PLAN
A2 01 EXTERIOR ELEVATIONS
A2 02 EXTERIOR ELEVATIONS
A2 10 WALL SECTIONS
A2 11 WALL SECTIONS
A2 12 WALL SECTIONS
A3 01 EXTERIOR DETAILS & SIGNAGE
A5 01 INTERIOR ELEVATIONS
A5 02 STANDARD ARCHITECTURAL WOODWORK DETAILS
A6 01 INTERIOR FLOOR PLAN PATTERNS AND COLORS

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S1 01 FOUNDATION PLAN
S2 01 FIRST FLOOR FRAMING PLAN
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S5 01 SECTIONS

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P0 02 PLUMBING RISER DIAGRAMS
P1 01 BASEMENT PLAN PLUMBING GRAVITY
P1 02 FIRST FLOOR PLAN PLUMBING GRAVITY
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P2 02 FIRST FLOOR PLAN PLUMBING PRESSURE
P3 01 BASEMENT PLAN PLUMBING MED PIPING
P3 02 FIRST FLOOR PLAN PLUMBING MED PIPING

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M0 02 HVAC DETAILS
M1 01 BASEMENT PLAN – HVAC
M1 02 FIRST FLOOR & MEZZANINE PLAN – HVAC
M1 03 SITE PLAN – HVAC

ELECTRICAL DRAWINGS

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E0 02 LUMINAIRE SCHEDULE AND NOTES
E0 03 ELECTRICAL RISER AND PANELBOARD SCHEDULES
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E1 01 ELECTRICAL SITE PLAN
E2 01 BASEMENT PLAN LIGHTING
E2 02 FIRST FLOOR PLAN LIGHTING
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E3 02 FIRST FLOOR PLAN POWER & AUXILIARY

DENTAL DRAWINGS

SCV DENTAL COVER SHEET
SA.0 MAIN LEVEL PROPOSED DENTAL LAYOUT
SA.1 BASEMENT LEVEL PROPOSED DENTAL LAYOUT
SA.2 PRELIMINARY DIMENSIONS & REINFORCEMENT SPECIFICATIONS
SA.3 PROPOSED CEILING PLAN
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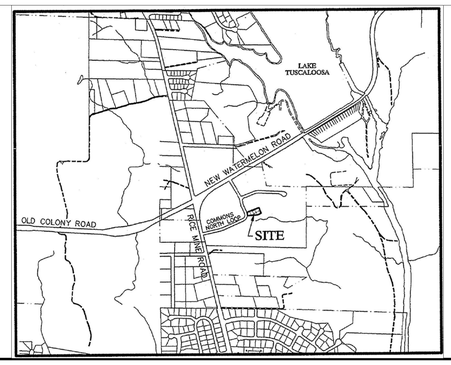
SPE.2 MAIN LEVEL ELECTRICAL PLAN
SPE.3 BASEMENT ELECTRICAL PLAN
SPE.4 MECHANICAL DETAILS
SPE.5 MECHANICAL DETAILS

LOCATION MAP



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BID SET

NEW CONSTRUCTION

PATRICK DAVIS DENTAL OFFICE

1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE 11/25/08

CURRENT DATE 11/25/08

REVISIONS

SHEET TITLE
TYPICAL LEGEND

SCALE: AS NOTED

DRAWN BY

L1

SHEET NO.

PROJECT NO.

DATE

Building Classifications

International Building Code 2003

Building Information

Occupancy	Type of Construction	Allowable Stories	Stories Provided
BUSINESS B	Type VB Unsprinklered	2 stories	2 stories

Floor Areas

Level/Floor	Allowable Floor Areas	Floor Areas Provided
Basement Floor	9000 sf	1480 sf
First Floor	9000 sf	4310 sf

As per Table 503

Fire Resistance Requirements

International Building Code 2003

Building-Type V-B Unsprinklered *Component*	Rating Required	Rating Provided	Assembly Number
Structural Frame -including columns, girders, trusses	0*	0*	NA
Bearing Walls Exterior Interior	0 (1)* 0	0 (1) 0	UL-U305 NA
Nonbearing Walls and Partitions Exterior	0	0	
Nonbearing Walls and Partitions Interior	0	0	NA
Roof Construction -including supporting beams and joists	0	0	NA

As per Table 601

* Where Required by Table 704.8

Building Occupant Load

International Building Code 2003

	Occupancy	Square Footage	S.F. per Occupant	Occupant Load
First Floor				
	Business	4310 sf	100 gross	44
	First Floor Total Occupants			**44**
Basement Floor				
	Accessory Storage	1480 sf	300 gross	5
	Basement Floor Total Occupants			**5**

As per Table 1004.1.2

FIRE PROTECTION / LIFE SAFETY LEGEND

- 1 HOUR WALL CONSTRUCTION UL - U305
- DRAFT STOP IN ATTIC
- EGRESS PATH-DIRECTION OF TRAVEL
- FEC FIRE EXTINGUISHER CABINET
- FE FIRE EXTINGUISHER

Plumbing Fixture Requirements

International Building Code 2003

	Water Closets (Private Facility)**		Lavatories		Water Fountains	
	required	provided	required	provided	required 1 per 500	provided
Occupant Load - 49	2	**3**	2	**3**	1	**2**

As per Table 2902.1

**one (1) service sink to be provided for building*

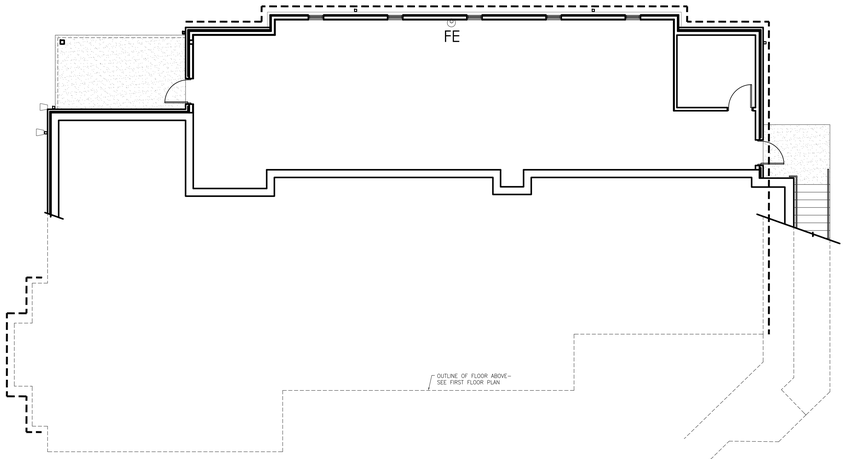
*** 2902.2 exception 2*

Means of Egress Requirements

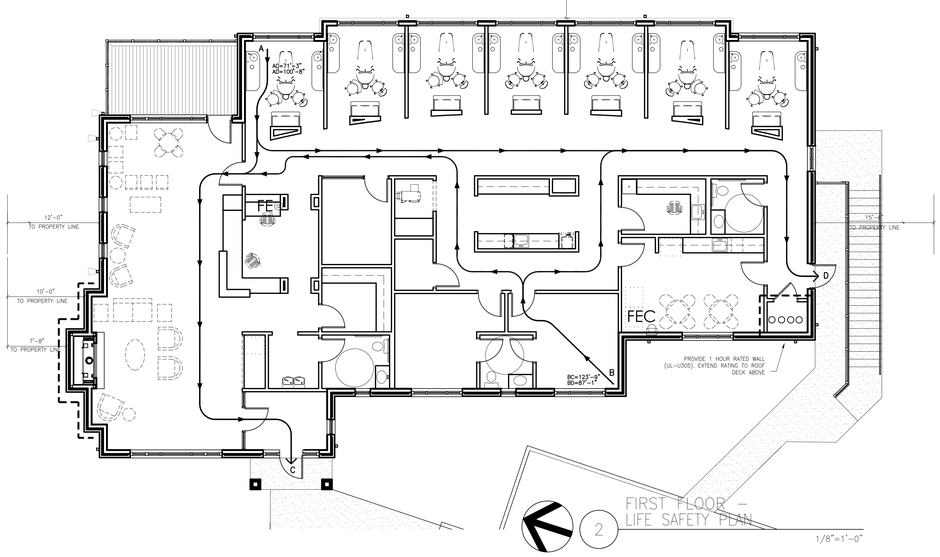
International Building Code 2003

Occupant Load	Min. No. of Exits Required	Number of Exits Provided	Min. Exit Width Required	Min. Exit Width Provided	Max. Distance to Exits Allowed
44 First Floor	1	2	36	36" Each Location	200 feet
5 Basement Floor	1	2	36	36" Each Location	200 feet

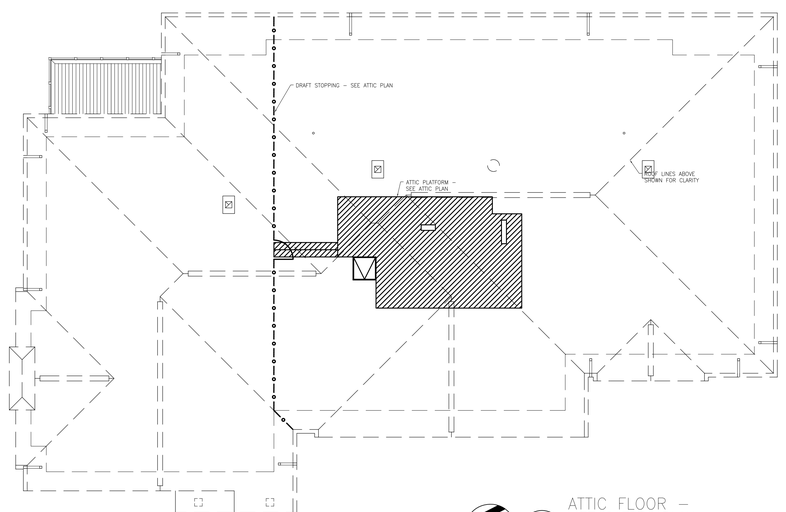
As per Tables 1005.1, 1014.1,1015.1, 1016.1, 1018.1



1 BASEMENT FLOOR – LIFE SAFETY PLAN
1/8"=1'-0"



2 FIRST FLOOR – LIFE SAFETY PLAN
1/8"=1'-0"



3 ATTIC FLOOR – LIFE SAFETY PLAN
1/8"=1'-0"

Karlsberger

Karlsberger Architecture Inc.

2509 Seventh Avenue N. Birmingham, AL 35203-3319 • 205/252-9191 •

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BID SET

NEW CONSTRUCTION

PATRICK DAVIS DENTAL OFFICE

1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE 11/25/08

CURRENT DATE 11/25/08

REVISIONS

SHEET TITLE

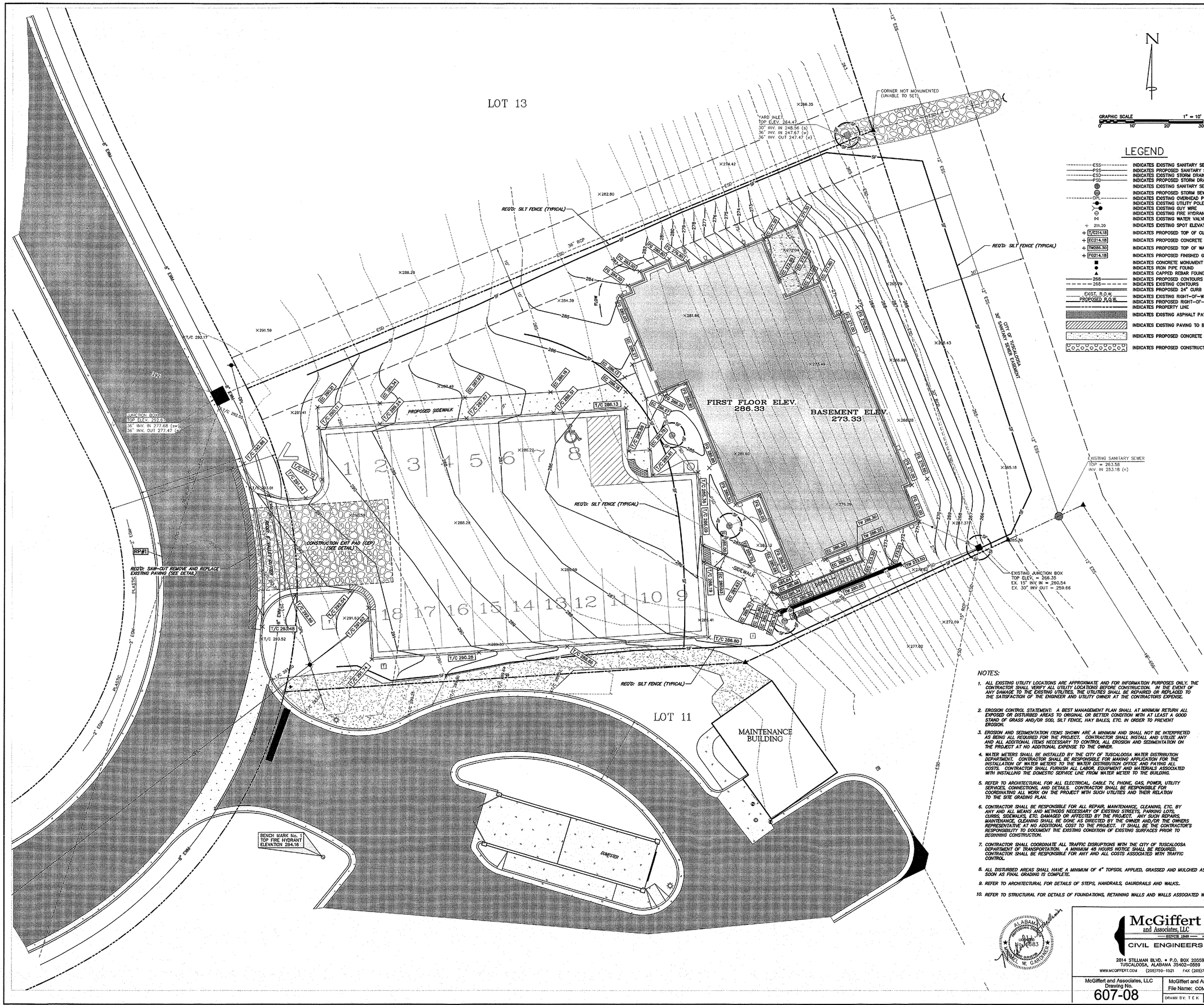
LIFE SAFETY PLAN AND CODE INFO

SCALE:

DRAWN BY

LS 01

SHEET NO.	
PROJECT NO.	
DATE	



NOTES:

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8. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" TOPSOIL APPLIED, GRASSED AND MULCHED AS SOON AS FINAL GRADING IS COMPLETE.
9. REFER TO ARCHITECTURAL FOR DETAILS OF STEPS, HANDRAILS, GAURDRAILS AND WALKS..
10. REFER TO STRUCTURAL FOR DETAILS OF FOUNDATIONS, RETAINING WALLS AND WALLS ASSOCIATED WITH STAIRS.

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WWW.MCGIFFERT.COM (205)759-1521 FAX (205)759-1524

McGiffert and Associates, LLC Drawing No.	607-08
McGiffert and Associates, LLC File Name:	COMMNS12-SCHM-GRAD1
DRAWN BY: T.E.K.	CHECKED BY: M.W.C.

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1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE 11/25/08

CURRENT DATE 11/25/08

REVISIONS

SHEET TITLE
EROSION CONTROL AND SITE GRADING PLAN

SCALE: 1"=10'

DRAWN BY

C 01

SHEET NO.

PROJECT NO.

DATE

LOT 13

LOT 11

MAINTENANCE BUILDING

DUMPSTER

BENCH MARK No. 1
TOP FIRE HYDRANT
ELEVATION 294.16

RP#1

PROPOSED GAS METER

PROPOSED GAS SUPPLY LINE (TO BE INSTALLED BY ALAGASCO)

REQ'D: 1" DOMESTIC WATER METER AND 1" IRRIGATION METER (TO BE INSTALLED BY CITY OF TUSCALOOSA WATER DEPARTMENT)

REQ'D: SAW-CUT REMOVE AND REPLACE EXISTING PAVING (SEE DETAIL)

REQ'D: 50 LF 6" VALLEY GUTTER

REQ'D: CONCRETE SPLASH BLOCK (TYP.)

INV. = 282.97

REQ'D: 2 EA. 45° BENDS

REQ'D: 45 LF 6" PVC SDR 26 @ 1.00%

REQ'D: 6" X 4" WYE
INV. = 282.61

REQ'D: 140 LF 2" PVC CLASS 200 WATER MAIN (MIN. 30" BURY DEPTH)

REQ'D: HANDICAP RAMP (SEE DETAIL NO. 1)

REQ'D: 22" LF 12" PVC SDR 26 @ 1.00%

REQ'D: 6" X 4" WYE
INV. = 281.59

REQ'D: 15" DRAIN BASIN (PEDESTRIAN SAFE)
TOP ELEV. = 284.25
8" INV IN = 281.50
12" INV IN = 281.29
12" INV OUT = 281.08

BITUMINOUS CONCRETE PARKING

REQ'D: 2 EA. 45° BENDS

REQ'D: HANDICAP RAMP (SEE DETAIL NO. 2)

REQ'D: 32" LF 12" PVC SDR 26 @ 1.00%

REQ'D: 2 EA. 45° BENDS

PROPOSED 24" CURB & GUTTER (TYPICAL)

INV. = 268.80

REQ'D: 6" X 4" WYE
INV. = 268.55

REQ'D: 15" DRAIN BASIN (PEDESTRIAN SAFE)
TOP ELEV. = 284.75
8" INV IN = 282.52
8" INV OUT = 282.32

REQ'D: 12" LF 8" RCP @ 1.50%

REQ'D: 68 LF 8" PVC SDR 26 @ 2.00%

REQ'D: S-TYPE INLET (SINGLE WING)
TOP ELEV. = 285.38
8" INV IN = 282.14
12" INV OUT = 281.50

REQ'D: 8" X 4" WYE
INV. = 267.93

REQ'D: 8" X 4" REDUCER

REQ'D: 1 EA. 45° BENDS
INV. = 269.00

REQ'D: 30 LF 8" PVC SDR 26 @ 2.00%

REQ'D: 8" X 4" WYE
INV. = 281.94

INV. = 282.10

REQ'D: 14 LF 8" PVC SDR 26 @ 29.71%

EXISTING JUNCTION BOX
TOP ELEV. = 266.35
EX. 15" INV IN = 260.54
EX. 30" INV OUT = 259.66
PROP 8" IN = 263.28
PROP 12" IN = 262.70

REQ'D: 8" X 4" WYE
INV. = 267.44

REQ'D: 60" LF 12" PVC SDR 26 @ 29.77%

REQ'D: 15" DRAIN BASIN (PEDESTRIAN SAFE)
TOP ELEV. = 284.50
12" INV IN = 280.76
12" INV OUT = 280.56

EXISTING 4" SANITARY SEWER LATERAL (NOT FIELD VERIFIED)

EXISTING 4" SEWER LATERAL. CONTRACTOR TO VERIFY LOCATION AND DEPTH PRIOR TO COMMENCING CONSTRUCTION OF BUILD. INSTALL 4" CLEANOUT

30' CITY OF TUSCALOOSA SANITARY SEWER EASEMENT

EXISTING 12" SANITARY SEWER @ 0.20%

N

GRAPHIC SCALE 1" = 10'
0 10' 20' 30'

LEGEND

ESS	INDICATES EXISTING SANITARY SEWER
PSS	INDICATES PROPOSED SANITARY SEWER
ESD	INDICATES EXISTING STORM DRAIN
PSD	INDICATES PROPOSED STORM DRAIN
	INDICATES EXISTING SANITARY SEWER MANHOLE
	INDICATES PROPOSED STORM SEWER STRUCURE
OPL	INDICATES EXISTING OVERHEAD POWER LINE
	INDICATES EXISTING UTILITY POLE
	INDICATES EXISTING GUY WIRE
	INDICATES EXISTING FIRE HYDRANT
	INDICATES EXISTING WATER VALVE
+ 211.20	INDICATES EXISTING SPOT ELEVATION
+ T/C214.18	INDICATES PROPOSED TOP OF CURB ELEVATION
+ EC214.18	INDICATES PROPOSED CONCRETE PAVING GRADE
+ TW286.30	INDICATES PROPOSED TOP OF WALL GRADE
+ FG214.18	INDICATES PROPOSED FINISHED GRADE ELEVATION
	INDICATES CONCRETE MONUMENT FOUND
	INDICATES IRON PIPE FOUND
	INDICATES CAPPED REBAR FOUND
268	INDICATES PROPOSED CONTOURS
268	INDICATES EXISTING CONTOURS
	INDICATES PROPOSED 24" CURB AND GUTTER
EXIST. R.O.W.	INDICATES EXISTING RIGHT-OF-WAY LINE
PROPOSED R.O.W.	INDICATES PROPOSED RIGHT-OF-WAY LINE
	INDICATES PROPERTY LINE
	INDICATES EXISTING ASPHALT PAVING
	INDICATES EXISTING PAVING TO BE REMOVED
	INDICATES PROPOSED CONCRETE PAVING
	INDICATES PROPOSED CONSTRUCTION EXIT PAD

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ALABAMA LICENSED PROFESSIONAL ENGINEER No. 16883 MICHAEL W. GRISHAM

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TUSCALOOSA, ALABAMA 35402-0559
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McGiffert and Associates, LLC Drawing No. 607-08

McGiffert and Associates, LLC File Name: COMMS12-SCHM-PSD

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NEW CONSTRUCTION
PATRICK DAVIS DENTAL OFFICE

1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE 11/25/08

CURRENT DATE 11/25/08

REVISIONS

SHEET TITLE
SITE UTILITY PLAN

SCALE: 1"=10'

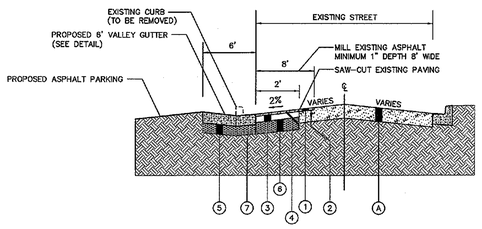
DRAWN BY

C 02

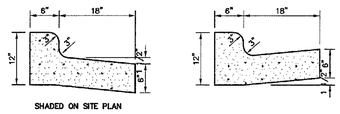
SHEET NO.

PROJECT NO.

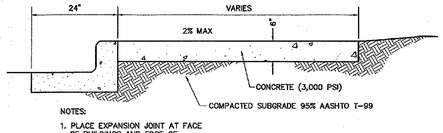
DATE



VALLEY GUTTER INSTALLATION DETAIL
N.T.S.

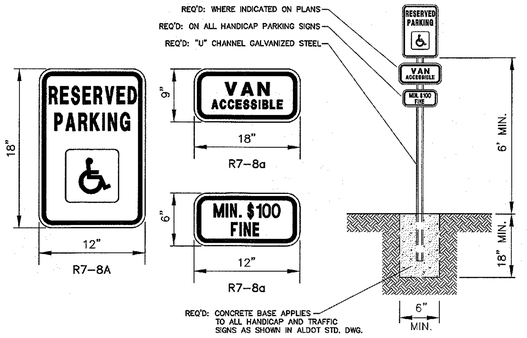


TYPICAL CURB & GUTTER DETAILS
N.T.S.



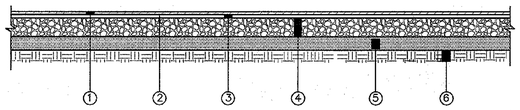
NOTES:
1. PLACE EXPANSION JOINT AT FACE OF BUILDINGS AND EDGE OF EXISTING WALKS AND EVERY 20'
2. TROWELED CONTROL JOINT EVERY 4'

SIDEWALK DETAIL
N.T.S.



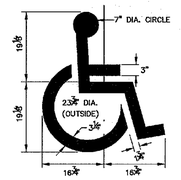
HANDICAP SIGN DETAILS
N.T.S.

① REQ'D: IMPROVED BITUMINOUS CONCRETE WEARING SURFACE, UPPER LAYER ALDOT 429A, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE "B" (1" COMPACTED THICKNESS)
② REQ'D: TACK COAT ALDOT SEC. 405-A (0.10 GALLON/SY)
③ REQ'D: IMPROVED BITUMINOUS CONCRETE BINDER LAYER, ALDOT 429B, 1 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE "B" (3" COMPACTED THICKNESS)
④ REQ'D: PRIME COAT ALDOT SEC. 401
⑤ REQ'D: CRUSHED AGGREGATE BASE COURSE, ALDOT SECTION 825, TYPE "B" (6" COMPACTED THICKNESS) (COMPACTED TO 100% AASHTO T-99)
⑥ REQ'D: CRUSHED AGGREGATE BASE COURSE, ALDOT SECTION 825, TYPE "B" (9" COMPACTED THICKNESS) (COMPACTED TO 100% AASHTO T-99)
⑦ REQ'D: UNCLASSIFIED AND/OR BORROW EXCAVATION (COMPACTED TO 98% AASHTO T-99)
Ⓐ IN PLACE: EXISTING PAVEMENT (RETAIN)



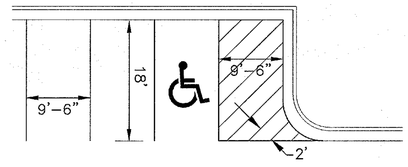
① REQ'D: IMPROVED BITUMINOUS CONCRETE WEARING SURFACE LAYER, ALDOT 429A, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE "B" (1" COMPACTED THICKNESS)
② REQ'D: TACK COAT ALDOT SEC 405-A (0.10 GALLON/SY)
③ REQ'D: IMPROVED BITUMINOUS CONCRETE BINDER LAYER, ALDOT 429B, 3/4" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE "B" (2" COMPACTED THICKNESS)
④ REQ'D: CRUSHED AGGREGATE BASE COURSE (ALDOT SECTION 825, TYPE B) (6" THICK, COMPACTED TO 100% ASTM D 698)
⑤ REQ'D: ROADBED PROCESSING ALDOT SEC. 230 MIN. 6" THICK (COMPACTED TO 98% ASTM D 698)
⑥ REQ'D: SUBGRADE (BELOW ROADBED PROCESSING) NATURAL OR FILL (COMPACTED TO 98% ASTM D 698)

LIGHT DUTY
ASPHALT PAVING DETAIL
N.T.S.

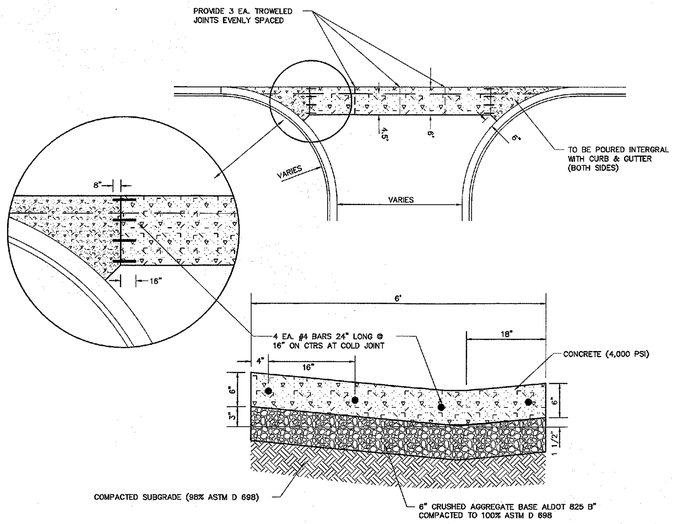


AREA = 2.36 SQ/FT

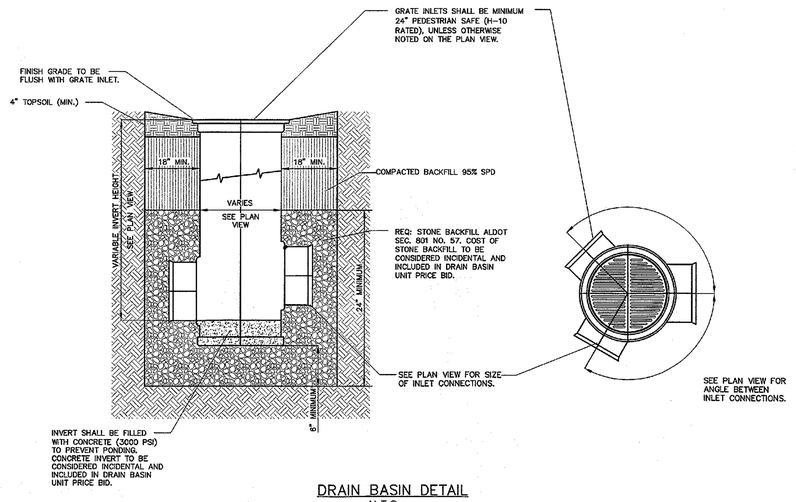
HANDICAP PAVEMENT MARKING SYMBOL
N.T.S.



TYPICAL HANDICAP PARKING DETAIL
N.T.S.



6' CONCRETE VALLEY GUTTER DETAIL
N.T.S.



DRAIN BASIN DETAIL
N.T.S.

ALABAMA
JEFFREY W. CROSSWHITE
LICENSED
NO. 19683
PROFESSIONAL ENGINEER

McGiffert and Associates, LLC
— SINCE 1949 —
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DRAWN BY: T E K | CHECKED BY: M W G

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NEW CONSTRUCTION
PATRICK DAVIS DENTAL OFFICE
1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE 11/25/08

CURRENT DATE 11/25/08

REVISIONS

SHEET TITLE
STANDARD DETAILS

SCALE:

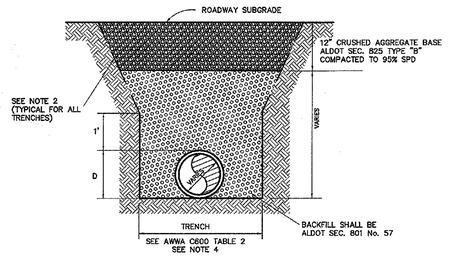
DRAWN BY

C 03

SHEET NO.

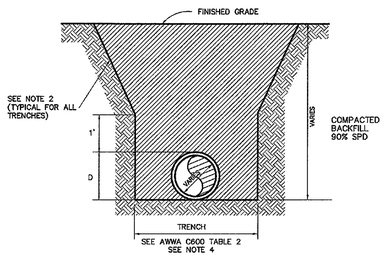
PROJECT NO.

DATE

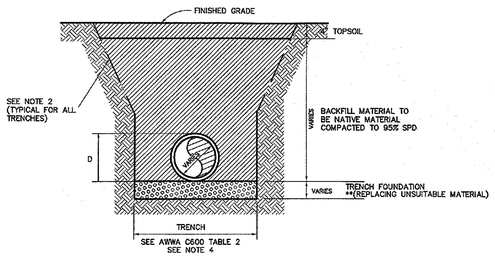


NOTE: SEE PAVEMENT PATCH FOR ASPHALT INSTALLATION.

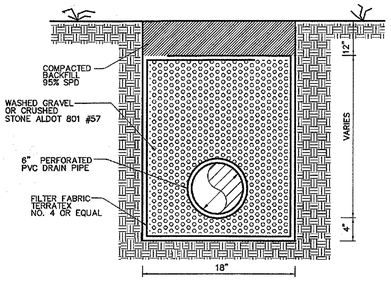
RCP STORM SEWER TRENCH DETAIL
(UNDER ALL *PROPOSED WIDENING ASPHALT, CONCRETE, GRAVEL OR CURB)
N.T.S.



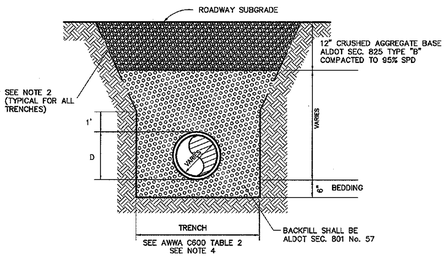
RCP STORM SEWER TRENCH DETAIL
(UNDER ALL UNPAVED AREAS)
N.T.S.



RCP STORM SEWER TRENCH DETAIL
(UNDER ALL FUTURE STREETS)
N.T.S.



6" UNDERDRAIN DETAIL
(TO BE USED ONLY AS DIRECTED BY ENGINEER)
N.T.S.



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SANITARY SEWER TRENCH DETAIL
(UNDER ALL *PROPOSED WIDENING ASPHALT, CONCRETE, GRAVEL OR CURB)
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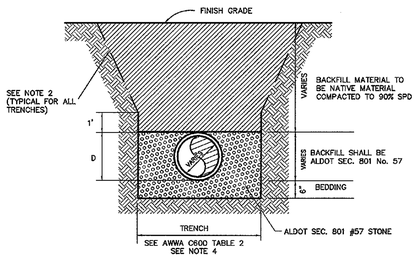
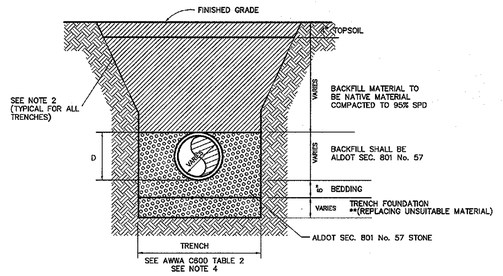
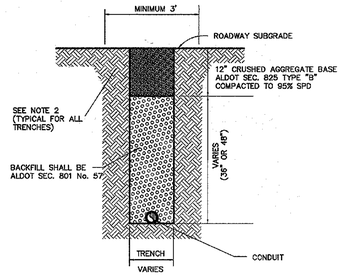


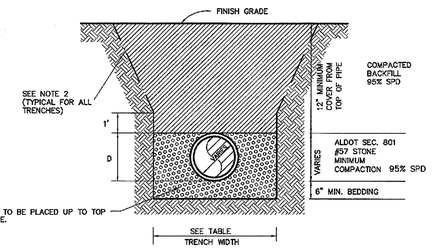
SANITARY SEWER TRENCH DETAIL
(UNPAVED AREAS)
N.T.S.



SANITARY SEWER TRENCH DETAIL
(UNDER ALL FUTURE STREETS)
N.T.S.



ELECTRICAL/PHONE/GAS TRENCH DETAIL
(UNDER ALL *PROPOSED WIDENING ASPHALT, CONCRETE, GRAVEL OR CURB)
N.T.S.

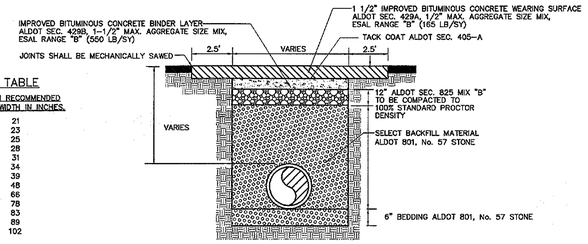


1.) TRENCH FOUNDATION REQUIRED IF DIRECTED BY ENGINEER. DEPTH VARIES.
2.) ALL SLOPES SHALL CONFORM TO OSHA REQUIREMENTS. ADDITIONAL PROTECTIVE MEASURES MAY BE REQUIRED ABOVE AND BEYOND OSHA DEPENDING ON SPECIFIC TRENCH CONDITIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF WORKERS, THE GENERAL PUBLIC, AND OTHERS INVOLVED IN THE PROJECT AND SHALL PROVIDE SHEETING, BRACING, OR WHATEVER ACTION NECESSARY TO INSURE THE SAFETY OF PEOPLE, PROPERTY, AND STRUCTURES.
3.) THE LINES AND TRENCHES SHOWN ON THE TRENCH DETAILS ARE ONLY INTENDED TO DEFINE THE BACKFILL REQUIREMENTS AND THE MINIMUM DIMENSIONS FOR THE TRENCH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO "LAY BACK" THE TRENCH WALLS TO WHATEVER FLATNESS OF SLOPE IS NECESSARY TO PROVIDE SAFE WORKING CONDITIONS FOR THE PLACEMENT OF THE PIPE AND BEDDING.

TRENCH WIDTH TABLE

NOMINAL ø IN INCHES.	MINIMUM RECOMMENDED TRENCH WIDTH IN INCHES.
4	21
6	23
8	25
10	28
12	31
15	34
18	39
24	48
30	66
36	78
42	83
48	89
60	102

PVC STORM SEWER TRENCH INSTALLATION DETAIL
N.T.S.



PAVEMENT PATCH DETAIL
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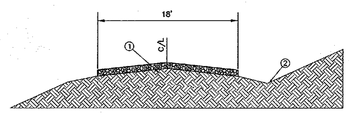


TEMPORARY CONSTRUCTION EXIT PAD
N.T.S

4.) AWWA C600 TABLE 2

SUGGESTED TRENCH WIDTHS AT THE TOP OF THE PIPE		SUGGESTED TRENCH WIDTHS AT THE TOP OF THE PIPE	
NOMINAL PIPE SIZE-INCHES	TRENCH WIDTH-INCHES	NOMINAL PIPE SIZE-INCHES	TRENCH WIDTH-INCHES
3 AND 4	28	24	48
6	30	30	54
8	32	36	60
10	34	42	66
12	36	48	72
14	38	54	78
16	40	60	84
18	42	72	88
20	44		

4.) ALL STONE BEDDING, SELECT STONE BACKFILL, TRENCH FOUNDATION MATERIAL, AND TRENCH ROCK EXCAVATION SHALL BE INCIDENTAL TO THE TYPE AND SIZE OF PIPE BEING INSTALLED. MINUMUM TRENCH WIDTHS SHALL BE PER AWWA C600 TABLE 2 LISTED ABOVE.

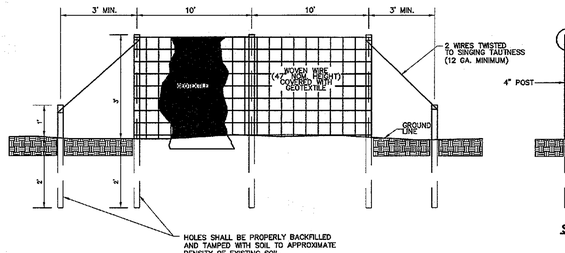
NOTES:

* 1.) IN AREAS WHERE UTILITIES (INCLUDING, BUT NOT LIMITED TO, WATER, GAS, STORM SEWER, SANITARY SEWER, PHONE, CABLE) ARE RELOCATED OR EXTENDED BENEATH PROPOSED WIDENING OF ROADWAYS THE UTILITY TRENCHES SHALL BE BACKFILLED WITH STONE AS SHOWN IN THE UTILITY TRENCH DETAILS AND AS DIRECTED BY THE ENGINEER. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR STONE BACKFILL.

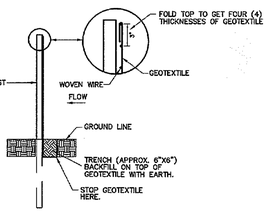
2.) IN AREAS WHERE SHALLOW UTILITIES EXIST THE CONTRACTOR SHALL BACKFILL FROM TOP OF THE UTILITY TO THE ROADWAY STONE BASE LAYER WITH STONE AS SHOWN IN THE UTILITY TRENCH DETAILS AND AS DIRECTED BY THE ENGINEER.

** 3.) SUITABLE AND UNSUITABLE MATERIAL SHALL BE DETERMINED BY THE OWNER'S REPRESENATIVE.

4.) IN AREAS WHERE UNSUITABLE MATERIAL IS ENCOUNTERED TRENCH FOUNDATION SHALL BE INSTALLED TO BED THE PROPOSED UTILITY. IN UNPAVED AREAS AFTER BEDDING THE PIPE IN TRENCH FOUNDATION THE TRENCH SHALL BE BACKFILLED AS PER THE DETAILS FOR UNDER UNPAVED OR FUTURE STREET AREAS.



ELEVATION
NTS

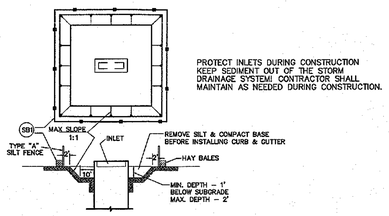


SECTION
NTS

TYPE "A" SILT FENCE DETAIL

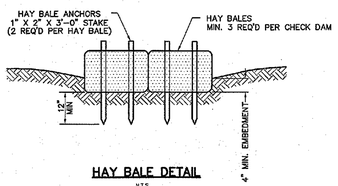
GENERAL NOTES

1. SILT FENCES ARE TEMPORARY EROSION CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODABLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
2. SILT FENCE SHOULD BE PLACED WELL INSIDE CLEARING LIMITS. THIS WILL ALLOW ROOM FOR A BACK-UP FENCE IF FIRST BECOMES FULL. SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION.
3. WHEREVER POSSIBLE, SILT FENCES SHALL BE CONSTRUCTED ACROSS A FLAT AREA IN THE SHAPE OF A HORSESHOE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
4. AFTER THE CONSTRUCTION AREA IS STABILIZED AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.

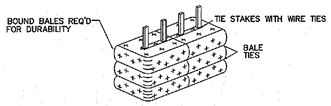


PROTECT INLETS DURING CONSTRUCTION KEEP SEDIMENT OUT OF THE STORM DRAINAGE SYSTEM. CONTRACTOR SHALL MAINTAIN AS NEEDED DURING CONSTRUCTION.

INLET SEDIMENT CONTROL STRUCTURE
N.T.S.



HAY BALE DETAIL
N.T.S.



ANCHORING BALES
N.T.S.

GENERAL NOTES:

1. HAY BALE CHECK DAMS ARE TEMPORARY EROSION CONTROL ITEMS THAT SHALL BE INSTALLED ACROSS DRAINAGE WAYS NEAR NEWLY GRADED AREAS.
2. HAY BALE CHECK DAMS SHALL BE INSPECTED REGULARLY FOR DAMAGE AND REPLACED OR RESET AS NEEDED.
3. AFTER DISTURBED AREAS ARE STABILIZED AND EROSION ACTIVITY CURTAILED, HAY BALE CHECK DAMS MAY BE REMOVED.

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6504A

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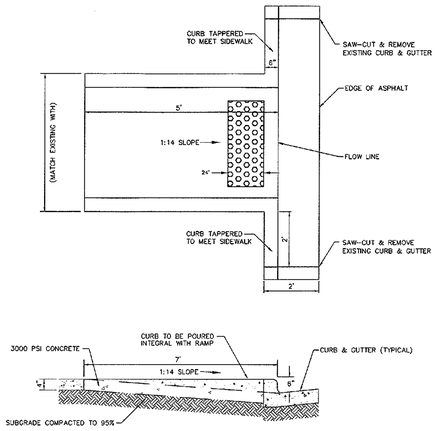

HANDICAP RAMP DETAIL NO. 2
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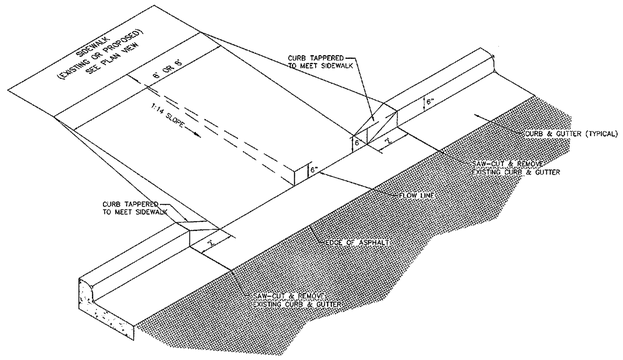
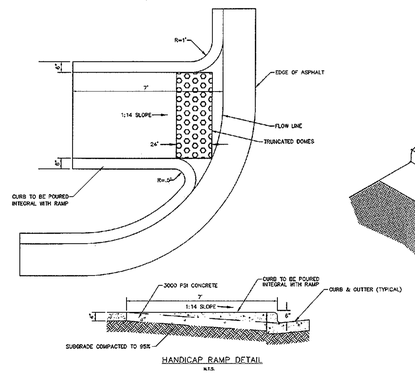
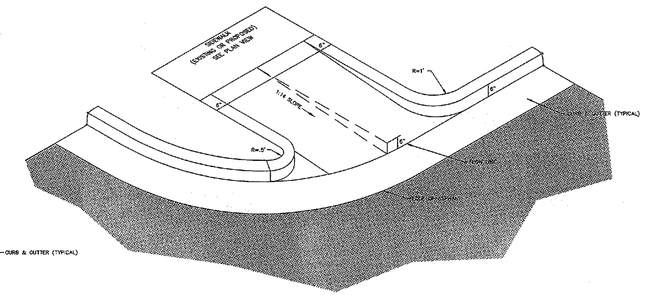
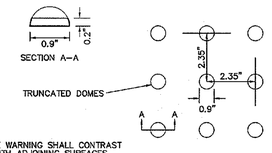




HANDICAP RAMP DETAIL
N.T.S.

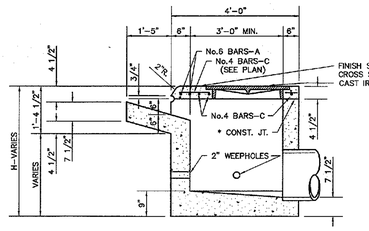


HANDICAP RAMP DETAIL NO. 1
N.T.S.

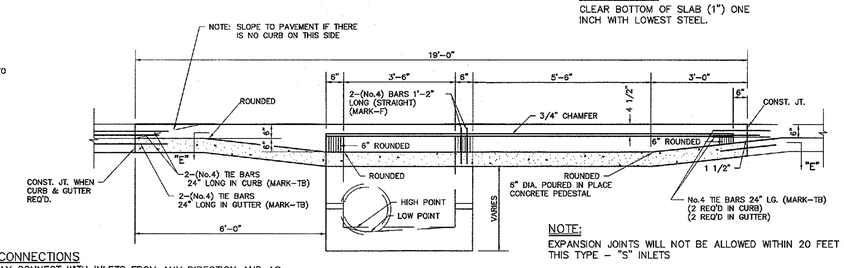


NOTES:
1. DETECTABLE WARNING SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT ON DARK OR DARK ON LIGHT.
2. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACES.

TRUNCATED DOMES DETAIL
N.T.S.



SECTION "AA"
SCALE: 1/2" = 1'–0"

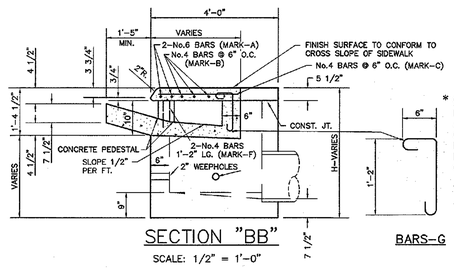


STEEL NOTE:
CLEAR BOTTOM OF SLAB (1") ONE INCH WITH LOWEST STEEL.

PIPE CONNECTIONS
PIPE MAY CONNECT WITH INLETS FROM ANY DIRECTION AND AS MANY CONNECTIONS SHALL BE MADE AS NECESSARY.

SECTION "CC"
SCALE: 1/2" = 1'–0"

NOTE:
EXPANSION JOINTS WILL NOT BE ALLOWED WITHIN 20 FEET OF THIS TYPE – "S" INLETS

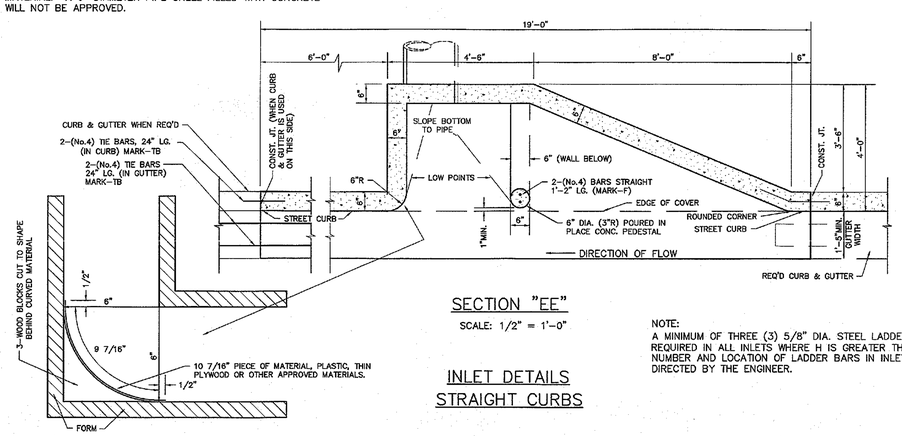


SECTION "BB"
SCALE: 1/2" = 1'–0"

BARS–G

* CONSTRUCTION JOINT
IF HE ELECTS, THE CONTRACTOR MAY POUR THE INLET COVER AFTER WALLS AND CENTRAL PEDESTAL ARE IN PLACE. IF CONTRACTOR POURS INLET TOP OR COVER LAST, HE WILL BE REQUIRED TO PLACE EXTRA NO. 3 BARS @ 12" O.C. AROUND INLET DUE TO CONSTRUCTION JOINT BETWEEN WALLS AND COVER (DETAIL OF BARS REQUIRED).

NOTE TO CONTRACTOR:
CONCRETE PEDESTAL SHALL BE POURED IN PLACE. ROUND FORM MAY BE CONSTRUCTED OF METAL, PLASTIC OR OTHER APPROVED MATERIAL. A 6" DIAMETER PIPE SHELL FILLED WITH CONCRETE WILL NOT BE APPROVED.

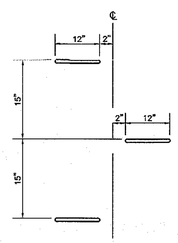


SECTION "EE"
SCALE: 1/2" = 1'–0"

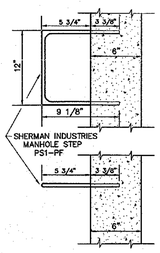
INLET DETAILS
STRAIGHT CURBS

PLAN

NOTE:
A MINIMUM OF THREE (3) 5/8" DIA. STEEL LADDER BARS ARE REQUIRED IN ALL INLETS WHERE H IS GREATER THAN 4'0". NUMBER AND LOCATION OF LADDER BARS IN INLET TO BE AS DIRECTED BY THE ENGINEER.



ARRANGEMENT OF LADDER BARS

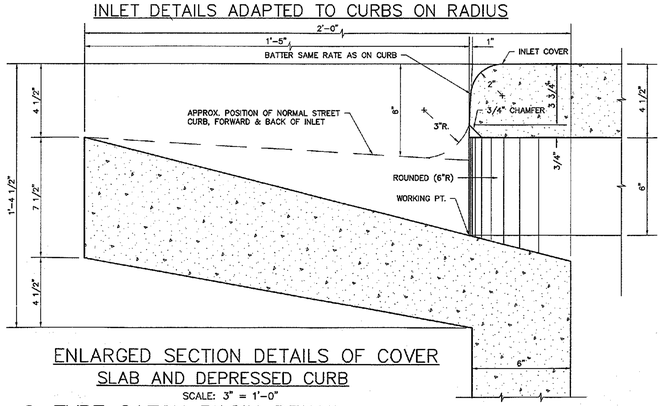


DETAIL OF LADDER BARS
SCALE: 1 1/2" = 1'–0"

GENERAL NOTES

SPECIFICATIONS: CURRENT ALABAMA HIGHWAY DEPT. & AASHO.
CONCRETE: CONCRETE SHALL BE CLASS–A.
REINFORCEMENT: REINFORCEMENT SHALL BE DEFORMED BAR.
INLET WINGS: WHERE DIRECTION OF FLOW IS FROM EACH END OF INLET SIDE WING OPENINGS (AS SHOWN ON ONE SIDE ONLY ON THIS DRAWING) SHALL BE CONSTRUCTED AT EACH END OF INLET. FOR EACH INLET SO CONSTRUCTED, PAYMENT WILL BE MADE PER THE UNIT PRICE BID FOR S–INLETS, DOUBLE WING.
WEEP HOLES: 2" MINIMUM WEEP HOLES SHALL BE CONSTRUCTED IN INLETS AS DIRECTED BY THE ENGINEER TO FACILITATE SUBGRADE DRAINAGE.
LARGE PIPE: TO ACCOMMODATE LARGE PIPE OR FIT OTHER CONDITIONS, IT MAY BE NECESSARY TO INCREASE ONE OR BOTH PLAN DIMENSIONS OF INLET BOX AND COVER SLAB. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRESPONDING INCREASE IN MATERIALS AND OTHER COSTS WHERE CHANGES IN DIMENSIONS ARE REQUIRED.

INLET DETAILS ADAPTED TO CURBS ON RADIUS



ENLARGED SECTION DETAILS OF COVER SLAB AND DEPRESSED CURB
SCALE: 3" = 1'–0"

S–TYPE CATCH BASIN DETAIL

ALABAMA REGISTERED PROFESSIONAL ENGINEER 26683 MICHAEL W. GARDNER

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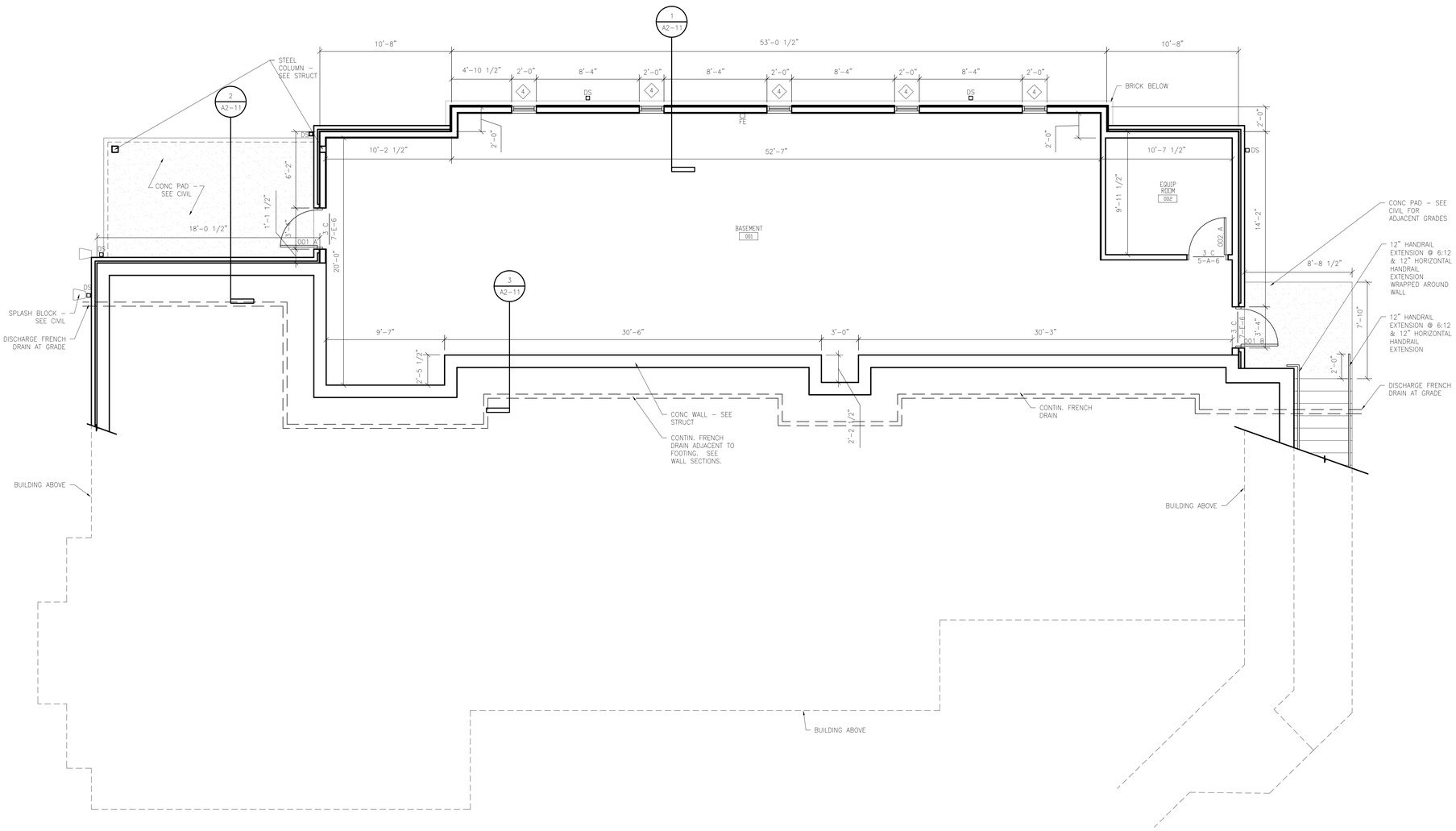
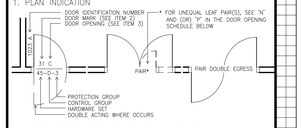


1 BASEMENT PLAN

1/4"=1'-0"

DOOR SCHEDULE

1. PLAN INDICATION



2. LOCATE DOOR MARK ON SCHEDULE (BELOW)

READ UP FOR MATERIAL
READ ACROSS FOR TYPE, GLASS LABEL, ETC.

3. DOOR OPENING SCHEDULE

A. 2-8 x 7-0	B. 2-10 x 7-0	C. 3-0 x 7-0
D. 3-4 x 7-0	E. 3-6 x 7-0	F. 3-8 x 7-0
G. 3-10 x 7-0	H. 4-0 x 7-0	J. 5-0 x 7-0
K. 5-8 x 7-0	L. 6-0 x 7-0	M. 7-8 x 7-0
N. 4-0 x 7-0 / 2-0 x 7-0		P. 3-0 x 7-8

4. ALL DOORS 1 3/4 " THICK U.N.O.

5. DOOR FRAME NOTES:

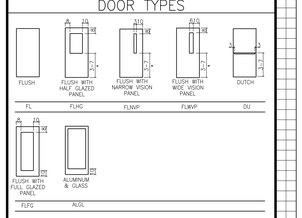
A. FRAME TYPE "B" SHALL BE PROVIDED FOR ALL HM DOORS IN EXTERIOR MASONRY WALLS. ALL OTHER DOOR FRAME TYPES SHALL BE TYPE "A", UNO, OR UNLESS NOTED OTHERWISE IN GLAZING AND FRAME TYPES NOTES AND LEGEND.

B. TYPICAL HM FRAME TO BE DOUBLE RABBITED WITH 2" FACE AND 1/2" RETURN EACH.

DOOR MARK SCHEDULE

DOOR MARK	FACING				TYPE	GLASS	LABEL	NOTES/ CONSTRUCTION OTHER THAN TYPICAL
	WOOD	ALUM.	HM	OTHER				
	1	2	3	4	FL	–	–	
	5	6	7	8	FL	–	–	LEAD LINED
	9	10	11	12	FL	–	20 MIN.	
	13	14	15	16	FL	–	20 MIN.	LEAD LINED
	17	18	19	20	FL	–	45 MIN.	
	21	22	23	24	FL	–	60 MIN.	
	25	26	27	28	FL	–	90 MIN.	
	–	–	29	30	FL	–	3 HR.	
	31	32	33	34	FLNVP	SAFETY	–	
	35	36	37	38	FLNVP	FRG	20 MIN.	
	39	40	41	42	FLNVP	FRG	20 MIN.	LEAD LINED – SEE NOTE B
	43	44	45	46	FLNVP	FRG	45 MIN.	
	47	48	49	50	FLNVP	FRG	60 MIN.	
	51	52	53	54	FLNVP	FRG	90 MIN.	
	55	56	57	58	FLWVP	SAFETY	–	
	59	60	61	62	FLWVP	FRG	20 MIN.	
	63	64	65	66	FLWVP	FRG	45 MIN.	
	67	68	69	70	FLHG	SAFETY	–	
	71	72	73	74	FLHG	FRG	20 MIN.	
	75	76	77	78	FLHG	FRG	45 MIN.	
	79	80	81	82	DU	–	–	
	83	84	85	86	DU	–	20 MIN.	
	–	–	87	88	DU	–	45 MIN.	
	–	–	–	89	ALGL	SEE NOTE	–	SEE GLAZING & FRAME TYPE
	–	–	–	90	–	–	–	CASED OPENING
	91	92	93	94	FLFG	SAFETY	–	
	95	96	97	98				
	99	100	101	102				
	103	104	105	106				
	107	108	109	110				
	111	112	113	114				

DOOR TYPES



* DIMENSION IS FROM FINISH FLOOR TO BOTTOM OF VISION GLASS PANEL

WALL TYPE NOTES

1. INTERIOR WALLS ARE TYPE 1 UNLESS TAGGED OTHERWISE.
2. SEE WALL SECTIONS FOR EXTERIOR BASEMENT WALLS.

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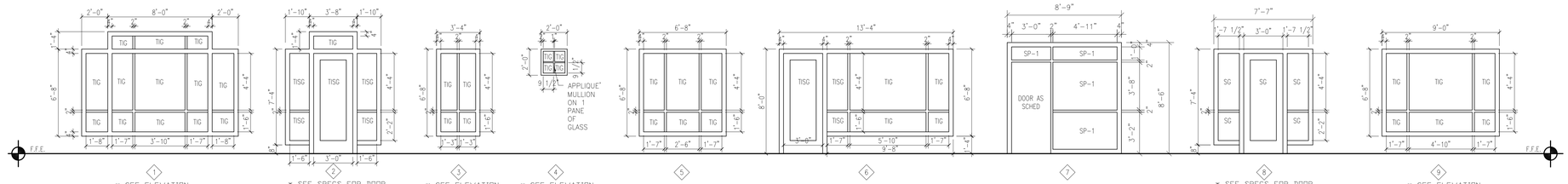
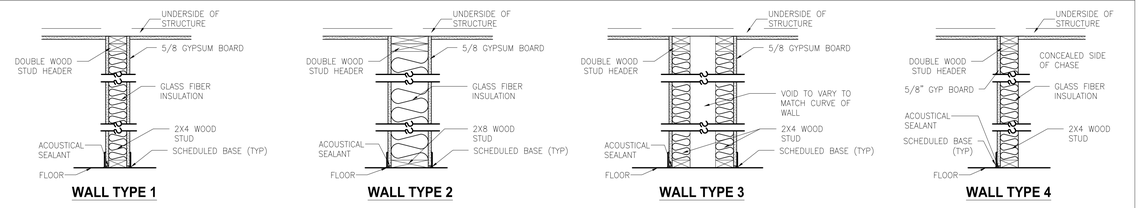
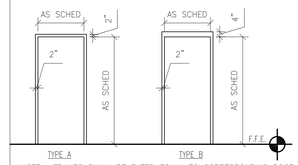
ALUM GLAZING & FRAME TYPES



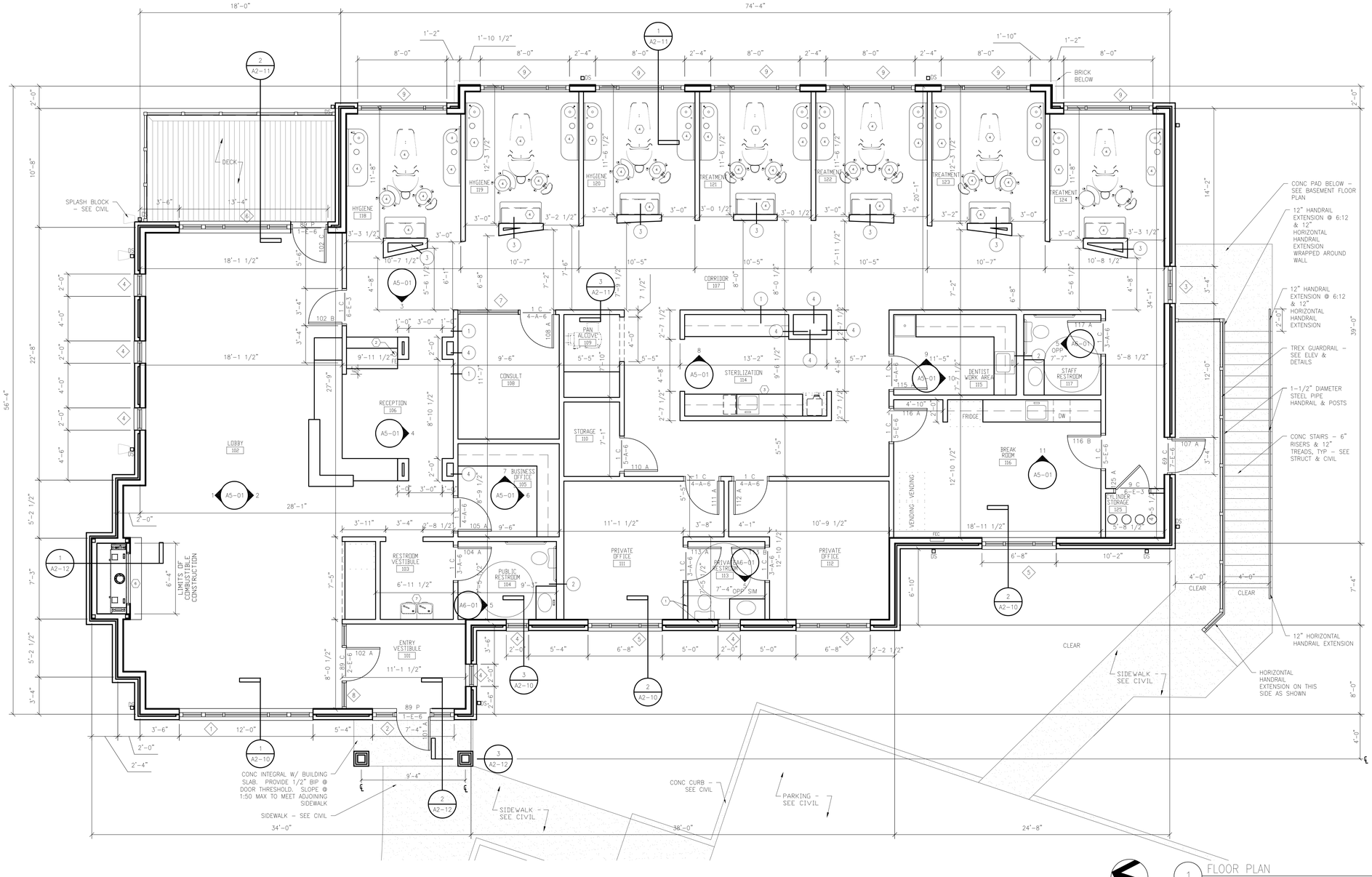
WALL TYPES



HM DOOR FRAME TYPES

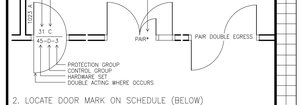


*NOTE: FRAMES SHALL BE RATED EQUAL TO CORRESPONDING DOOR FIRE RATINGS.



DOOR SCHEDULE

1. PLAN INDICATION



2. LOCATE DOOR MARK ON SCHEDULE (BELOW)
READ UP FOR MATERIAL
READ ACROSS FOR TYPE, GLASS LABEL, ETC.

3. DOOR OPENING SCHEDULE

A. 2'-8 x 7'-0	B. 2'-10 x 7'-0	C. 3'-0 x 7'-0
D. 3'-4 x 7'-0	E. 3'-6 x 7'-0	F. 3'-8 x 7'-0
G. 3'-10 x 7'-0	H. 4'-0 x 7'-0	J. 5'-0 x 7'-0
K. 5'-8 x 7'-0	L. 6'-0 x 7'-0	M. 7'-8 x 7'-0
N. 4'-0 x 7'-0 / 2'-0 x 7'-0		P. 3'-0 x 7'-8

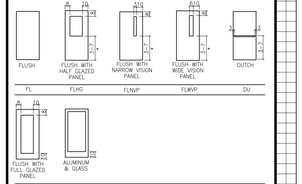
4. ALL DOORS 1 3/4 " THICK U.N.O.

5. DOOR FRAME NOTES:
A. FRAME TYPE "B" SHALL BE PROVIDED FOR ALL HM DOORS IN EXTERIOR MASONRY WALLS. ALL OTHER DOOR FRAME TYPES SHALL BE TYPE "A", UNO, OR UNLESS NOTED OTHERWISE IN GLAZING AND FRAME TYPES NOTES AND LEGEND.
B. TYPICAL HM FRAME TO BE DOUBLE RABBETED WITH 2" FACE AND 1/2" RETURN EACH.

DOOR MARK SCHEDULE

DOOR MARK	FACING				TYPE	GLASS	LABEL	NOTES/ CONSTRUCTION OTHER THAN TYPICAL
	WOOD	ALUM.	HM	OTHER				
	1	2	3	4	FL	–	–	
	5	6	7	8	FL	–	–	LEAD LINED
	9	10	11	12	FL	–	20 MIN.	
	13	14	15	16	FL	–	20 MIN.	LEAD LINED
	17	18	19	20	FL	–	45 MIN.	
	21	22	23	24	FL	–	60 MIN.	
	25	26	27	28	FL	–	90 MIN.	
	–	–	29	30	FL	–	3 HR.	
	31	32	33	34	FLNVP	SAFETY	–	
	35	36	37	38	FLNVP	FRG	20 MIN.	
	39	40	41	42	FLNVP	FRG	20 MIN.	LEAD LINED – SEE NOTE 8
	43	44	45	46	FLNVP	FRG	45 MIN.	
	47	48	49	50	FLNVP	FRG	60 MIN.	
	51	52	53	54	FLNVP	FRG	90 MIN.	
	55	56	57	58	FLWVP	SAFETY	–	
	59	60	61	62	FLWVP	FRG	20 MIN.	
	63	64	65	66	FLWVP	FRG	45 MIN.	
	67	68	69	70	FLHG	SAFETY	–	
	71	72	73	74	FLHG	FRG	20 MIN.	
	75	76	77	78	FLHG	FRG	45 MIN.	
	79	80	81	82	DU	–	–	
	83	84	85	86	DU	–	20 MIN.	
	–	–	87	88	DU	–	45 MIN.	
	–	–	–	89	ALGL	SEE NOTE	–	SEE GLAZING & FRAME TYPE
	–	–	–	90	–	–	–	CASED OPENING
	91	92	93	94	FLFG	SAFETY	–	
	95	96	97	98				
	99	100	101	102				
	103	104	105	106				
	107	108	109	110				
	111	112	113	114				

DOOR TYPES



* DIMENSION IS FROM FINISH FLOOR TO BOTTOM OF VISION GLASS PANEL

A1-01 KEY NOTES

1. PROVIDE BLOCKING FOR FUTURE ADA GRAB BARS.
2. PROVIDE FIRE EXTINGUISHER BELOW RECEPTIONIST'S COUNTER.
3. CASEWORK & EQUIP ON WEST SIDE OF STERILIZATION RM N/C – PROVIDED BY HENRY SCHEIN.
4. ITEM N/C – PROVIDED BY HENRY SCHEIN
5. KEYNOTE NOT USED
6. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING FIREPLACE MANUFACTURER'S REQUIREMENTS FOR NONCOMBUSTIBLE CONSTRUCTION AROUND FIREPLACE. 3.5" 18 GA. COLD FORM MTL FRAMING @ 16" O.C. WHERE COMBUSTIBLE CONSTRUCTION IS NOT PERMITTED.
7. HIGH-LOW DRINKING FOUNTAINS. ONE SHALL BE ADA COMPLIANT. SEE PLUMBING FIXTURE SPEC FOR BUBBLER HEIGHTS.

GLAZING & FRAME TYPES LEGEND

T – TINTED
C – CLEAR
I – INSULATED
S – SAFETY
G – GLAZING
SP-1 – SPECIALTY PANEL 1. SEE INTERIOR DRAWINGS.

WALL TYPE NOTES

1. INTERIOR WALLS ARE TYPE 1 UNLESS TAGGED OTHERWISE.
2. SEE WALL SECTIONS FOR EXTERIOR BASEMENT WALLS.
3. SEE A5 & A6 SHEETS FOR SPECIAL INTERIOR FINISHES NOT DRAWN ON WALL TYPE SHEETS.

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TUSCALOOSA, ALABAMA

6504A

ISSUE DATE
11/25/08

CURRENT DATE
11/25/08

REVISIONS

SHEET TITLE
FLOOR PLAN

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

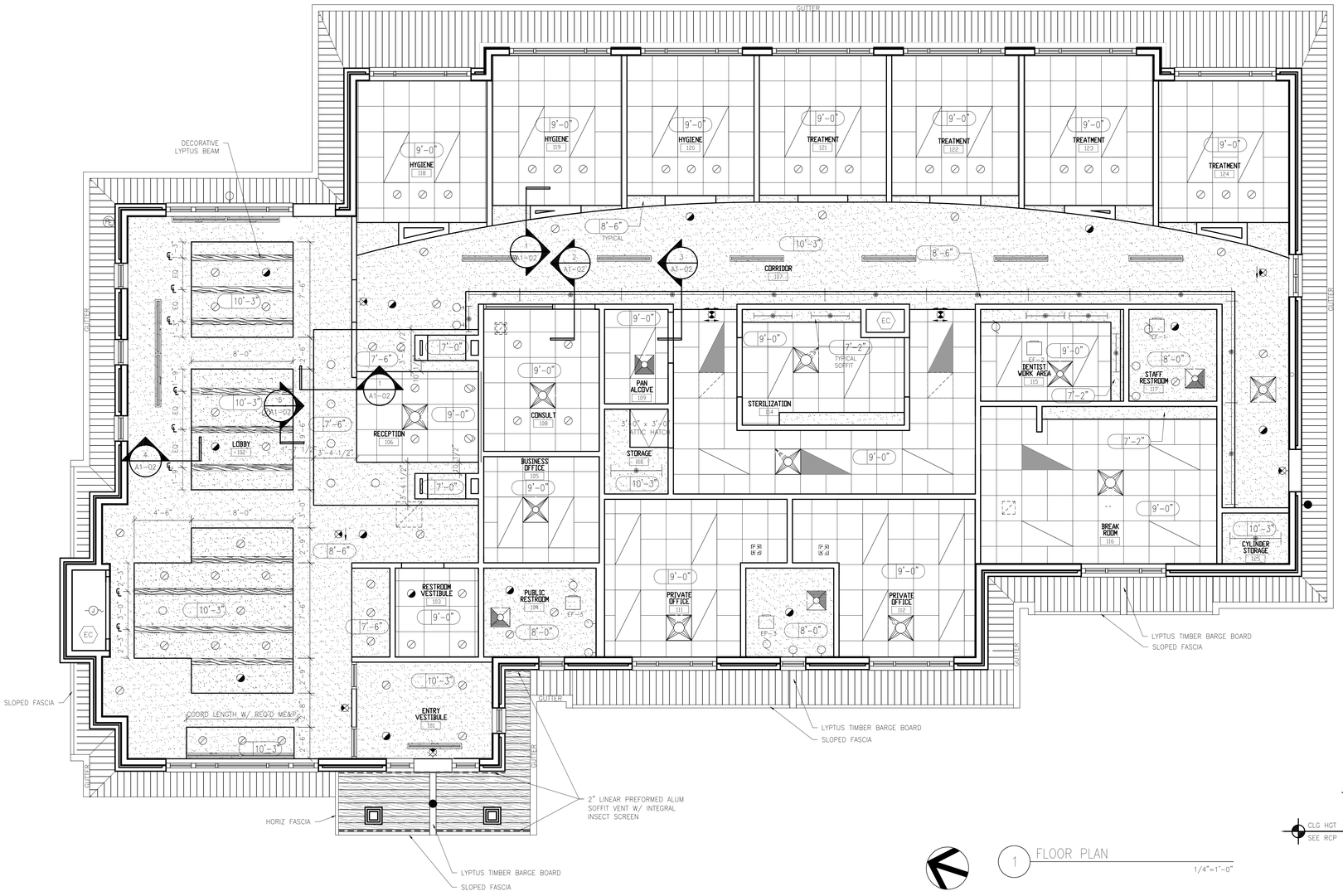
DRAWN BY

A1
01

SHEET NO.

PROJECT NO.

DATE



1 FLOOR PLAN

1/4"=1'-0"

CEILING LEGEND

GYP. BD CEILING
*WHERE NOTED AS 10'-3", GYP BD CEILING SHALL BE MOUNTED TO RESILIENT 'Z' CHANNELS @ 16" O.C. ATTACHED TO UNDERSIDE OF TRUSS, AND RUNNING PERPENDICULAR TO, WD TRUSSES ABOVE.

2X2 ACOUSTICAL CEILING TILE

INTEGRAL VENT BEADED VINYL SOFFIT EQUAL TO VARIFORM

4/4 X6" LYPTUS TONGUE & GROOVE BOARD SOFFIT

EC EXPOSED CONSTRUCTION

A1-02 NOTES

1. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LIGHTING AND MECHANICAL CEILING PENETRATIONS AND CEILING MOUNTED FIXTURES.

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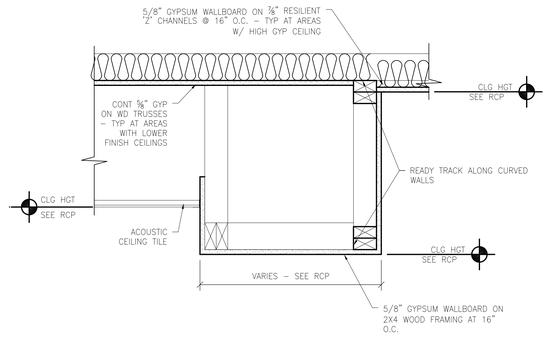
SHEET TITLE
REFLECTED CEILING PLAN

SCALE:

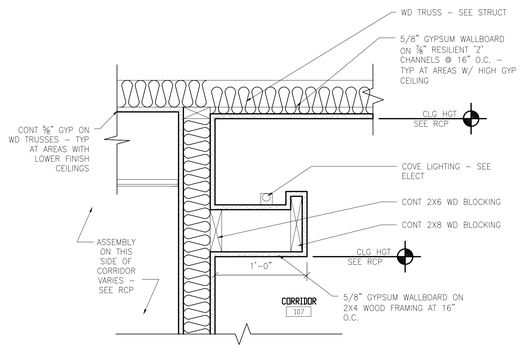
DRAWN BY

A1 02



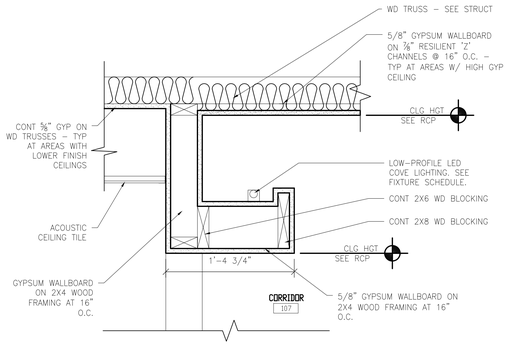
1 BULKHEAD DETAIL

1 1/2"=1'-0"



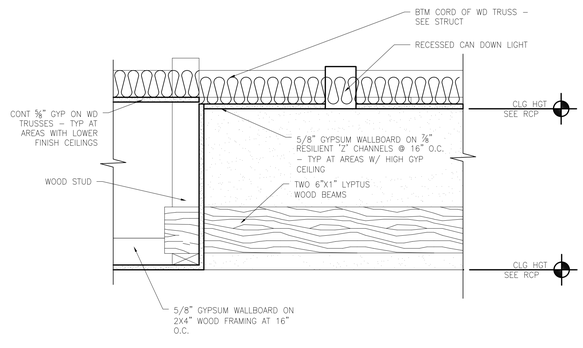
2 COVE LIGHTING DETAIL

1 1/2"=1'-0"



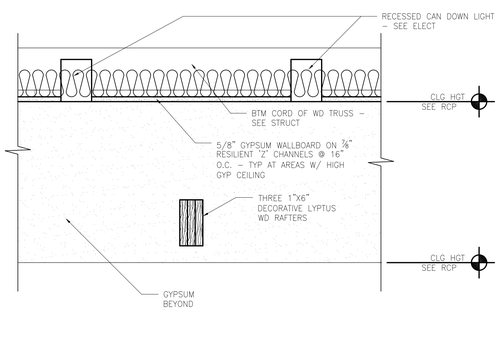
3 COVE LIGHTING DETAIL

1 1/2"=1'-0"



4 RECESSED CEILING W/ BEAM

1 1/2"=1'-0"



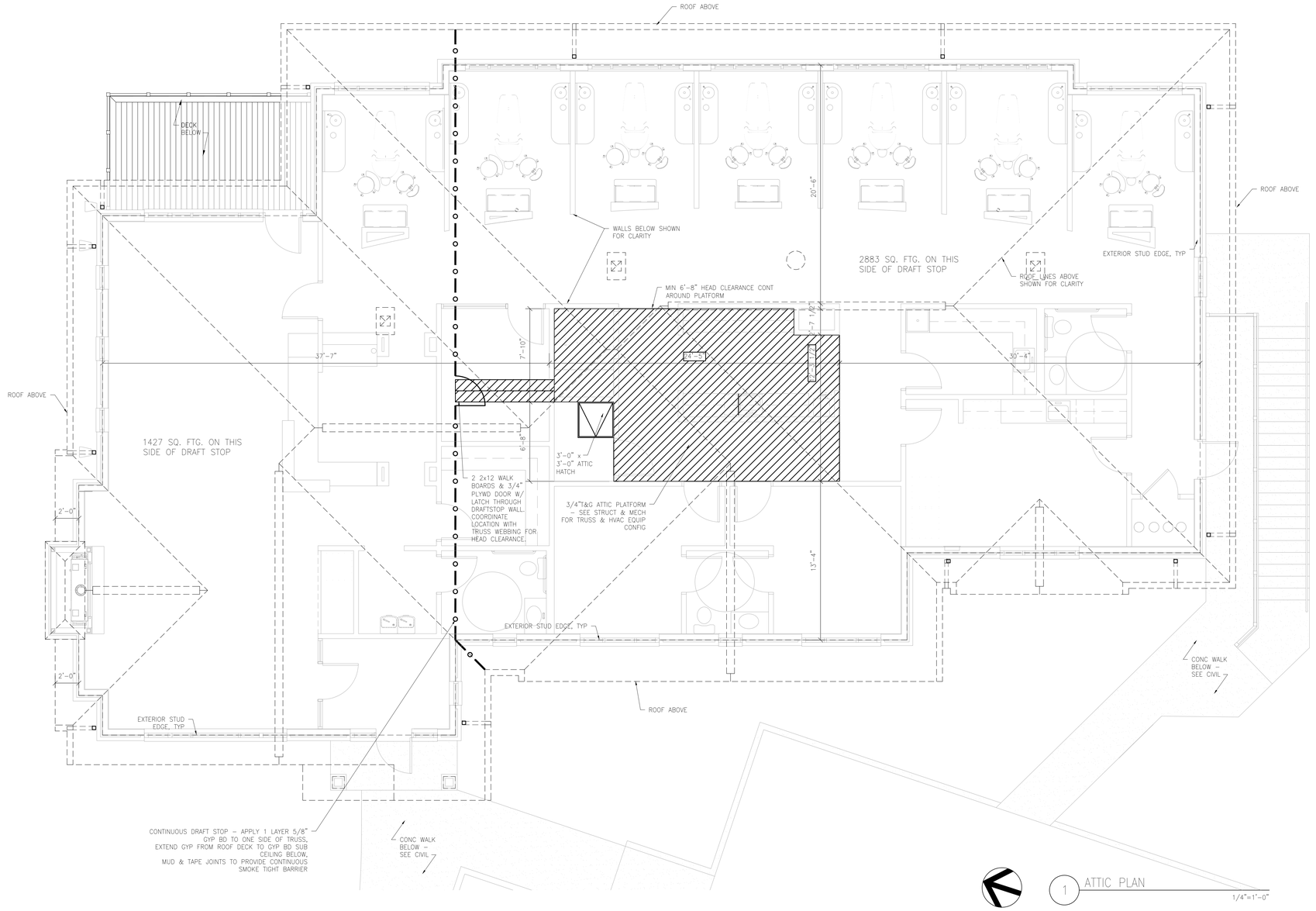
5 RECESSED CEILING W/ BEAM

1 1/2"=1'-0"

SHEET NO.

PROJECT NO.

DATE



1 ATTIC PLAN

1/4"=1'-0"

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SHEET TITLE
ATTIC PLAN

SCALE:

DRAWN BY

A1
03

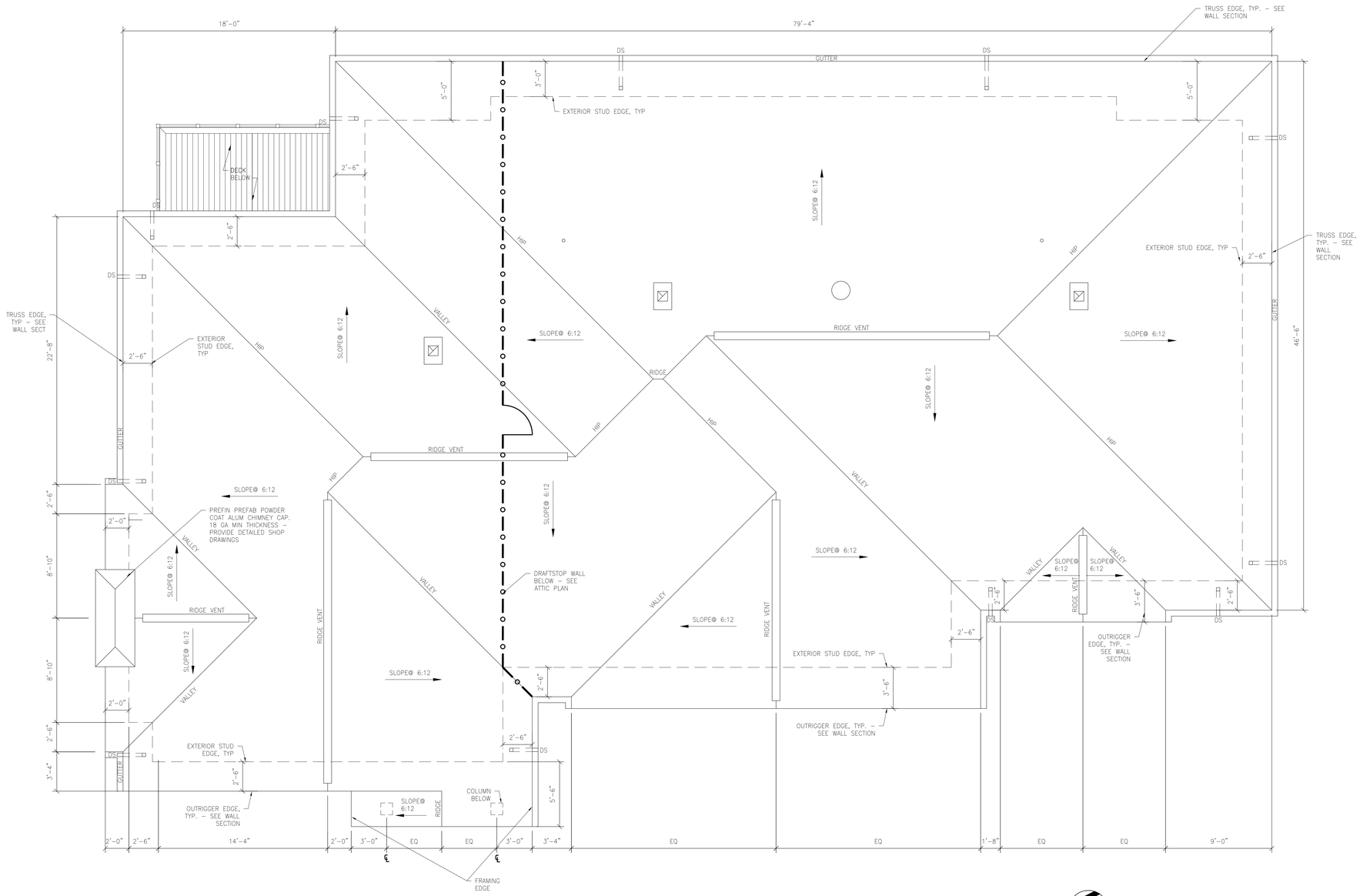
SHEET NO.

PROJECT NO.

DATE

A1-04 NOTES

1. ROOF MATERIAL IS ASPHALT SHINGLES, UNO.



1 ROOF PLAN

1/4"=1'-0"

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SHEET TITLE
ROOF PLAN

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

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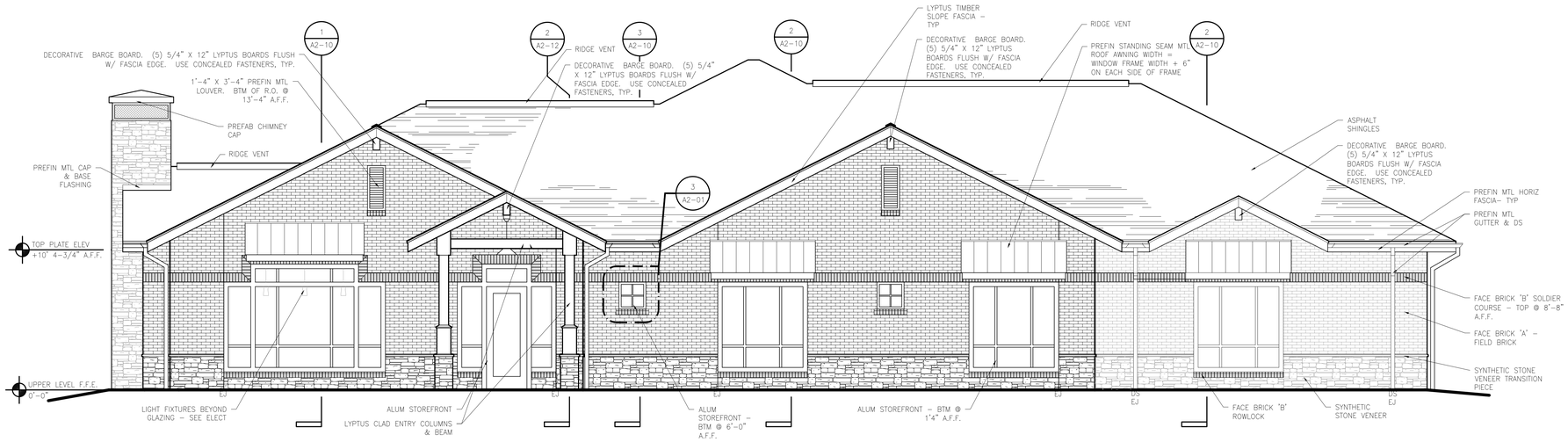
04

SHEET NO.

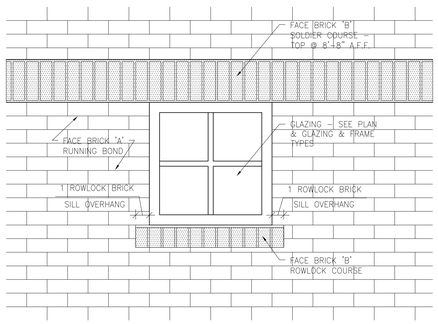
PROJECT NO.

DATE



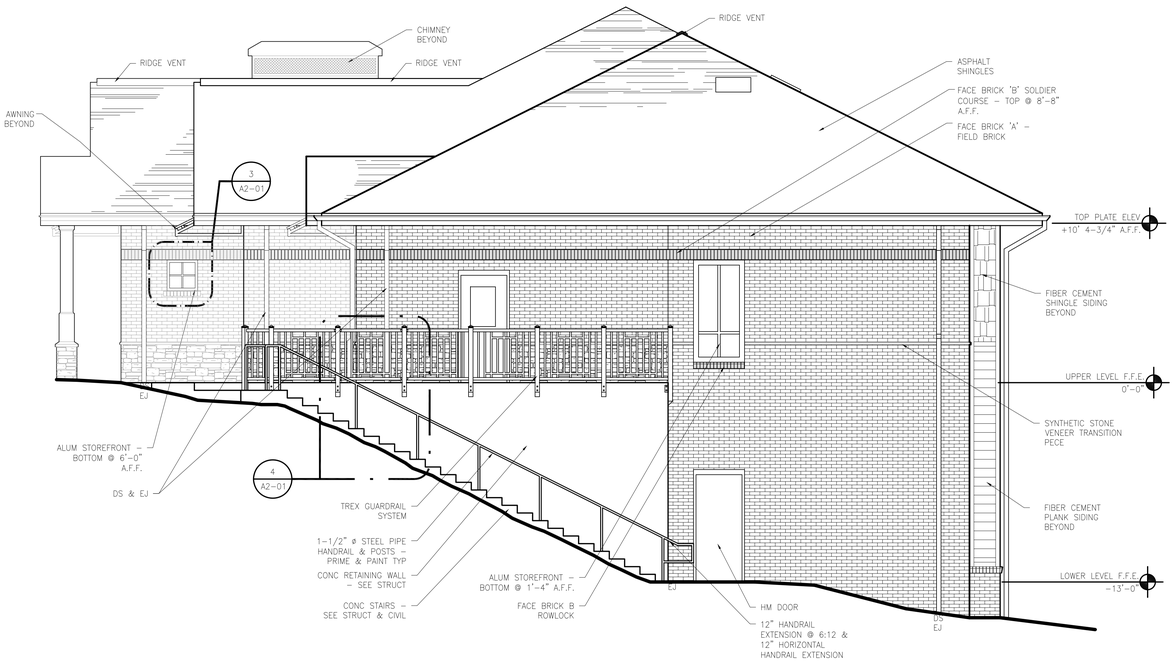
1 WEST ELEVATION

1/4"=1'-0"



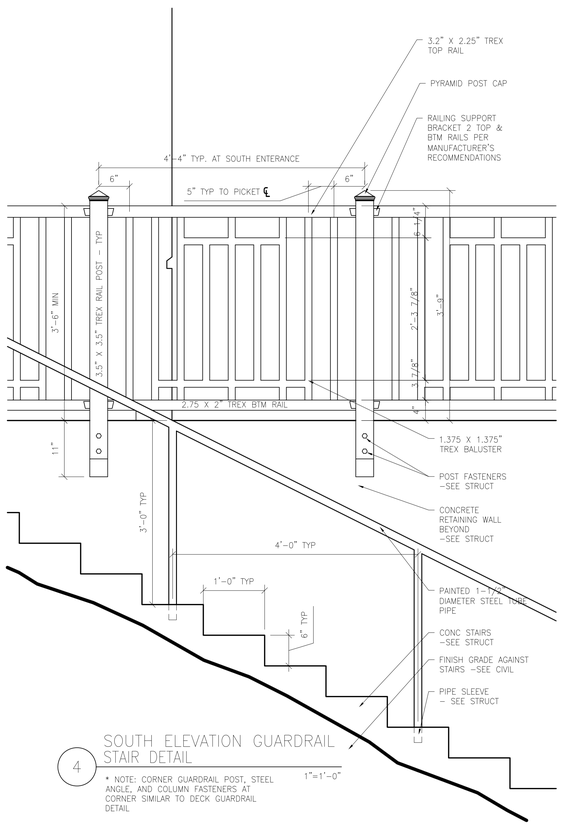
3 ELEV DETAIL

1"=1'-0"



2 SOUTH ELEVATION

1/4"=1'-0"



4 SOUTH ELEVATION GUARDRAIL STAIR DETAIL

1"=1'-0"

* NOTE: CORNER GUARDRAIL POST, STEEL ANGLE, AND COLUMN FASTENERS AT CORNER SIMILAR TO DECK GUARDRAIL DETAIL

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SHEET TITLE
EXTERIOR ELEVATIONS

SCALE:

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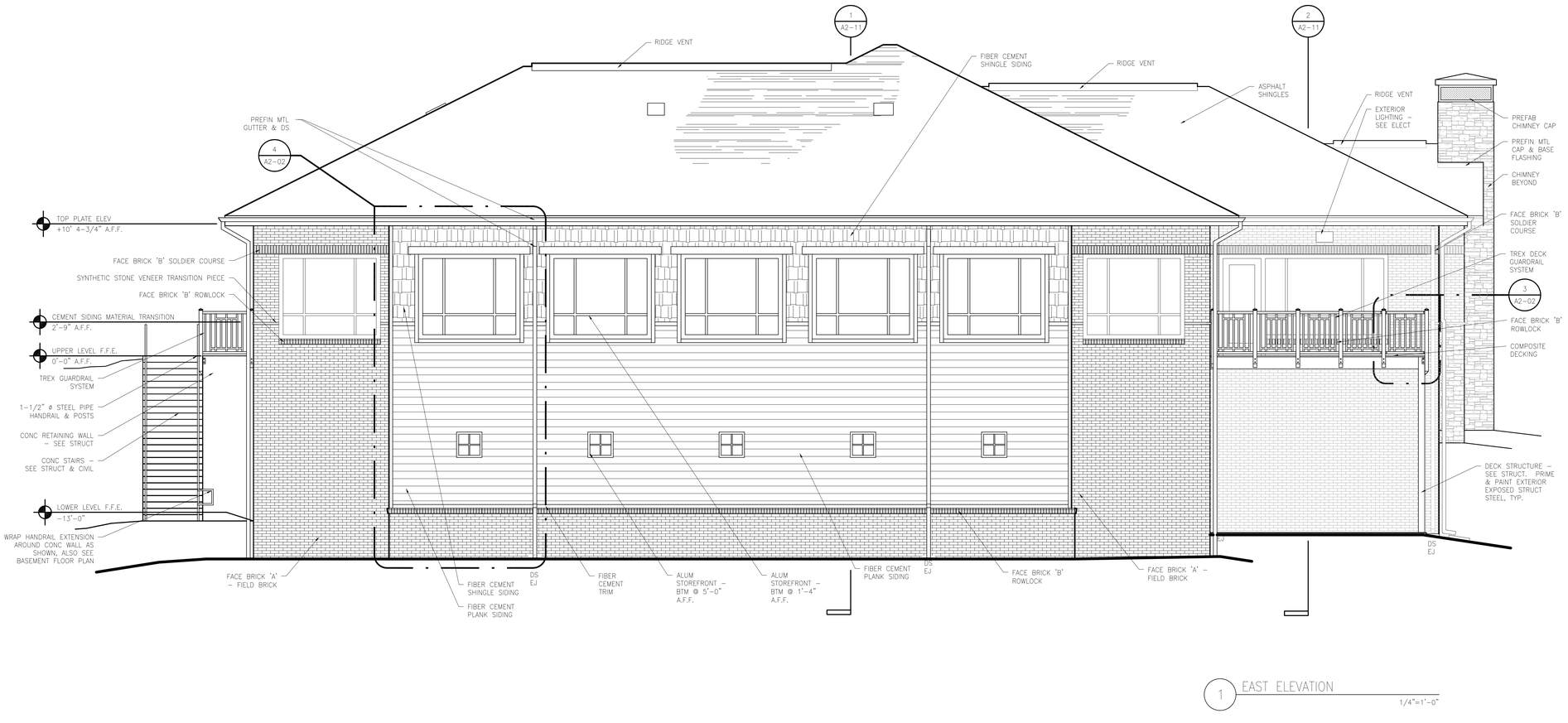
A2
01

SHEET NO.

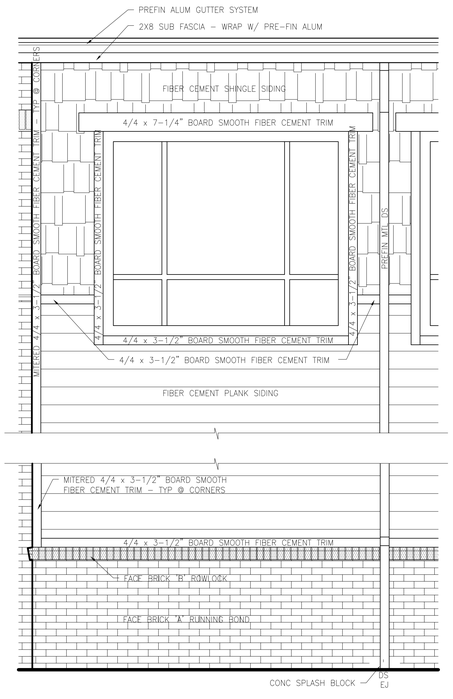
PROJECT NO.

DATE



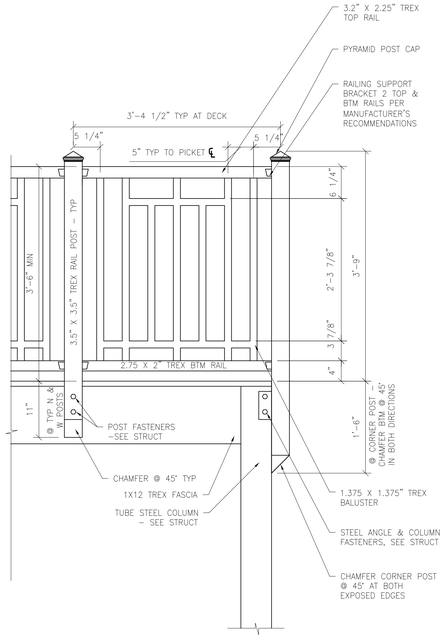
1 EAST ELEVATION

1/4"=1'-0"



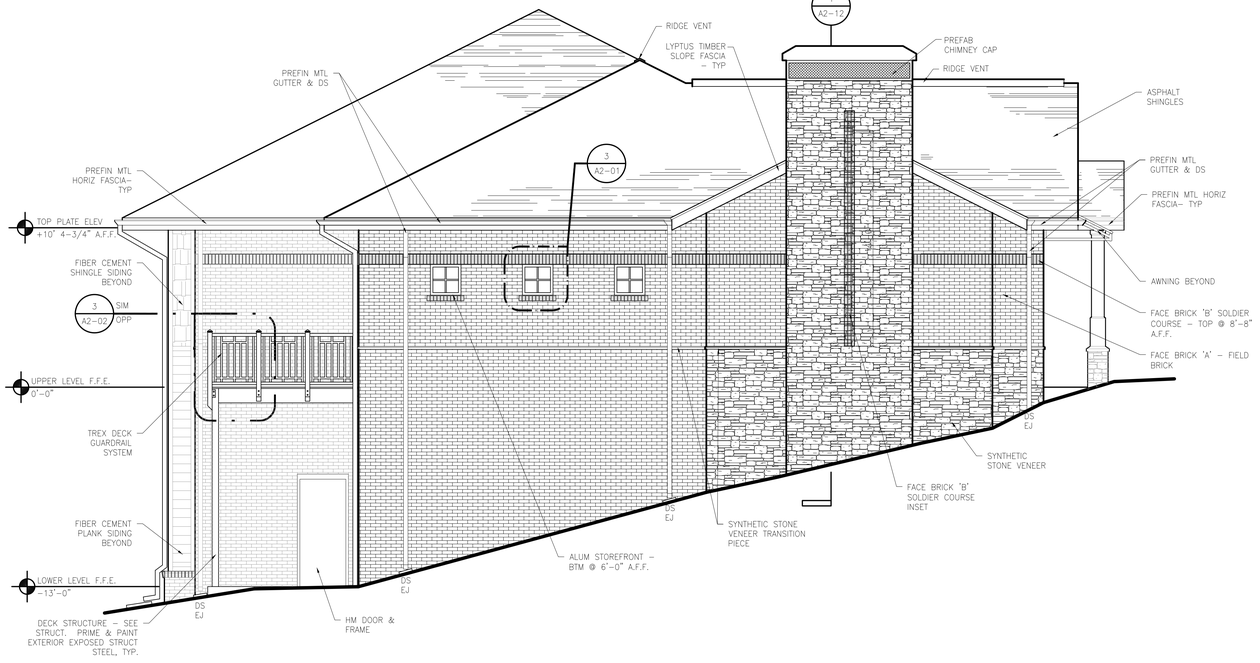
4 ELEV DETAIL

1/2"=1'-0"



3 DECK GUARDRAIL ELEV DETAIL

1"=1'-0"



2 NORTH ELEVATION

1/4"=1'-0"

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EXTERIOR ELEVATIONS

SCALE:

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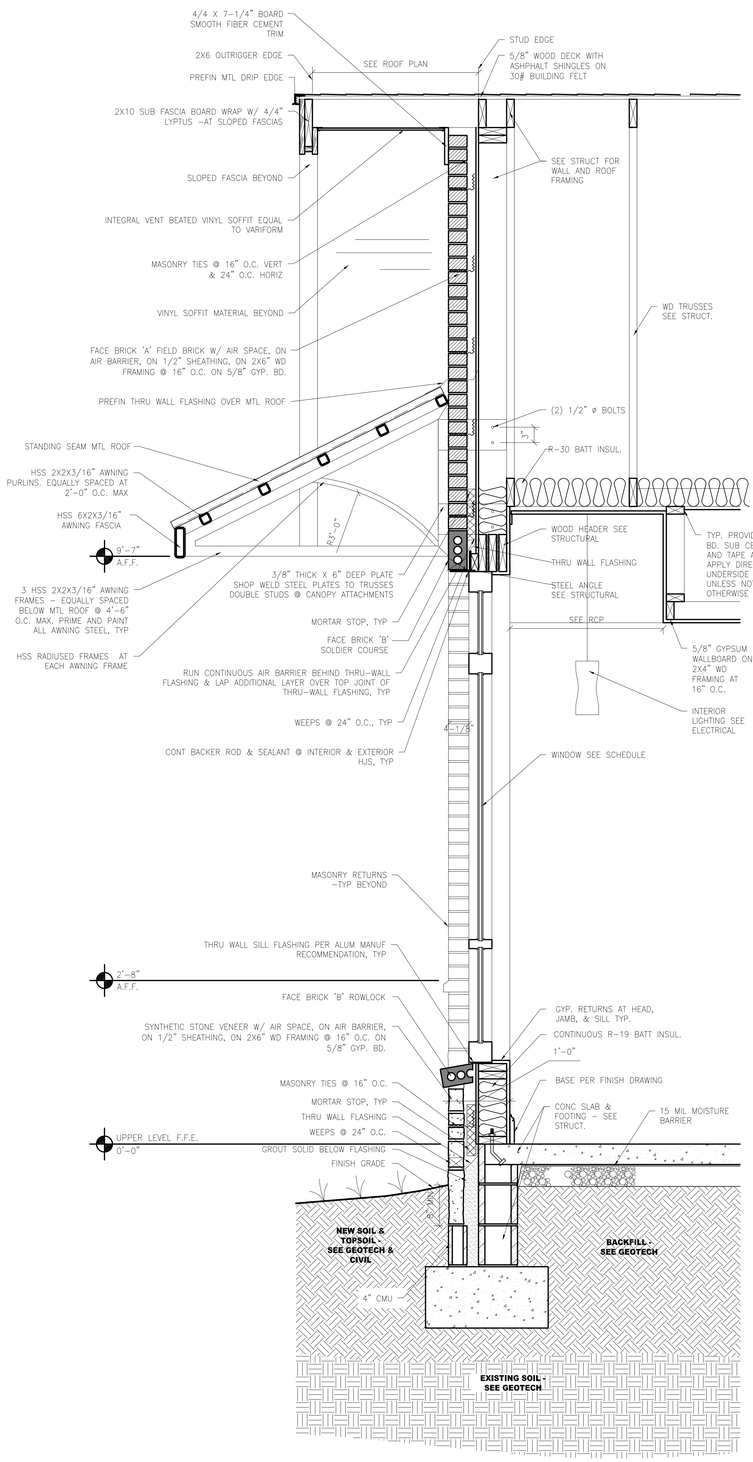
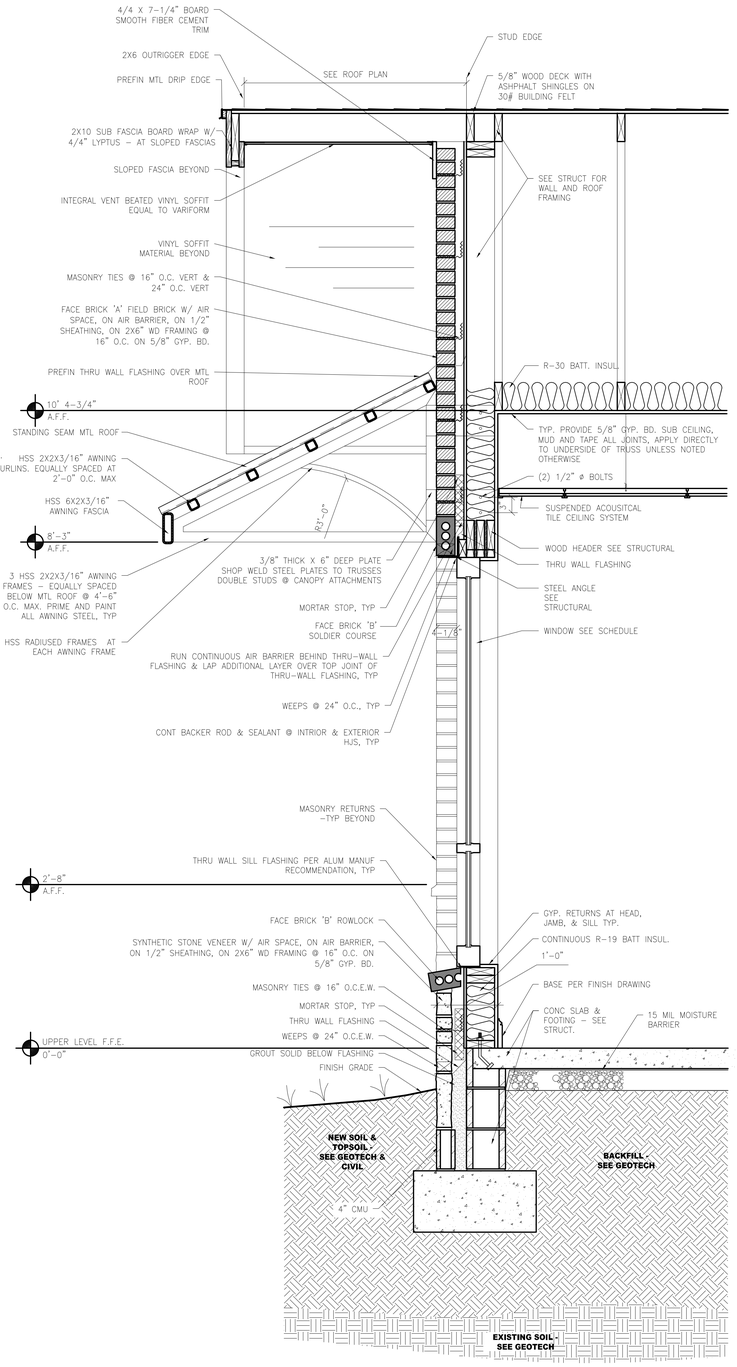
A2 02



1 WALL SECTION
1"=1'-0"



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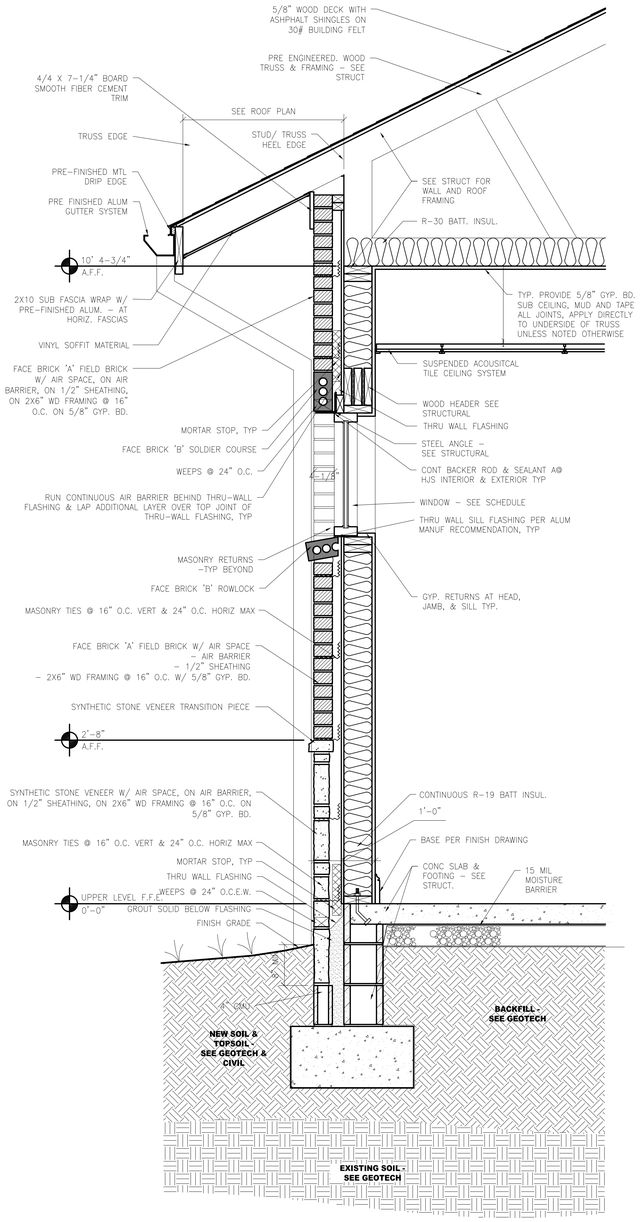

3 WALL SECTION
1"=1'-0"

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WALL SECTIONS

SCALE:

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10

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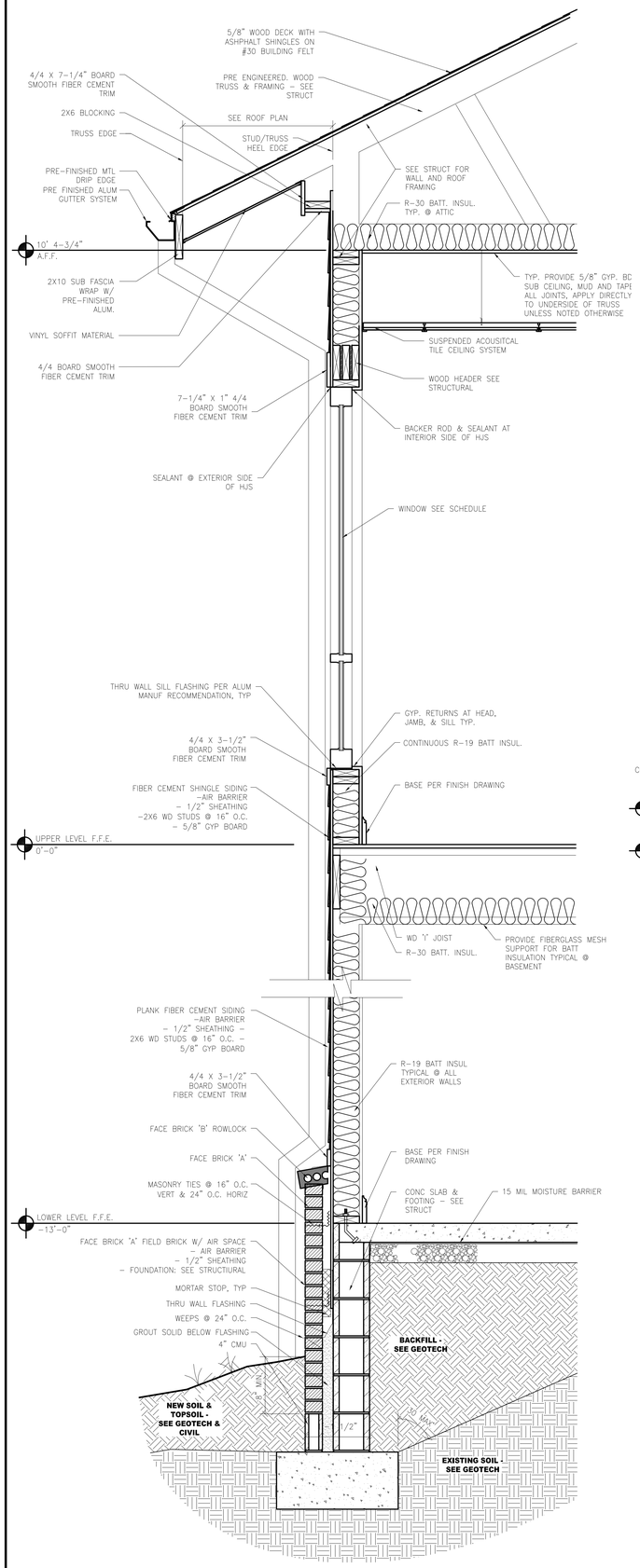

1 WALL SECTION

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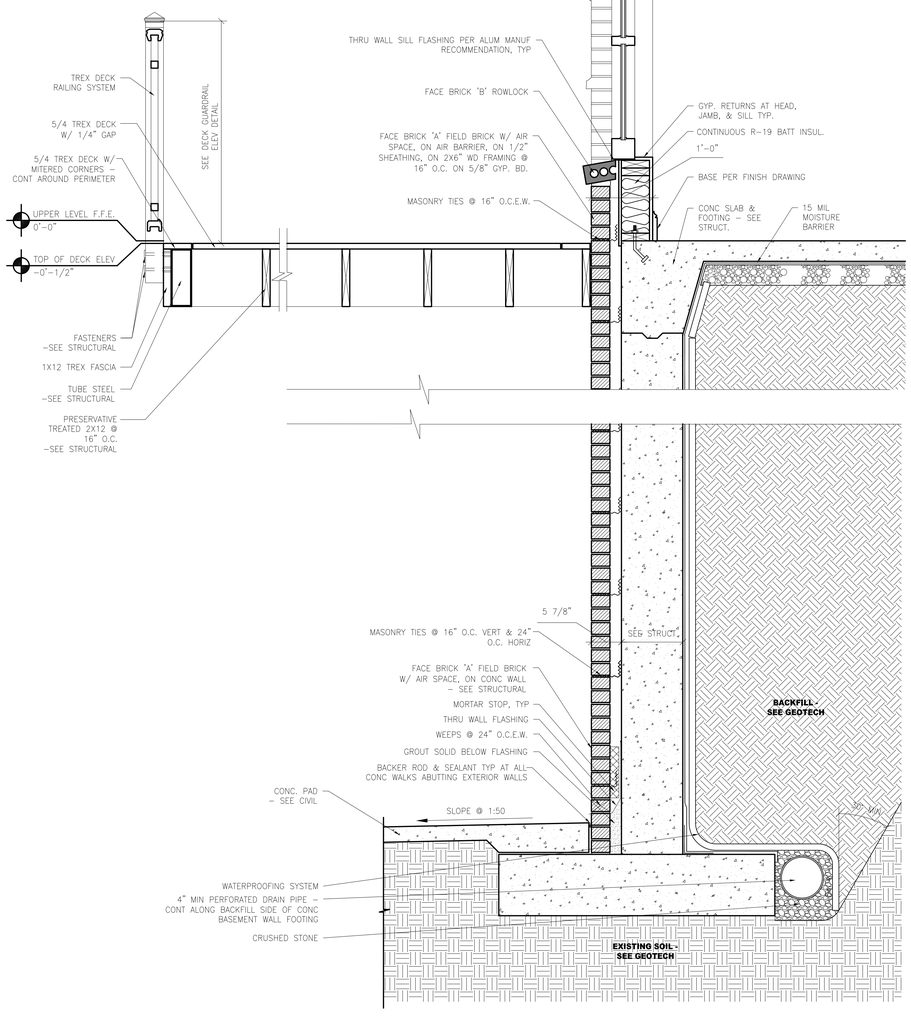

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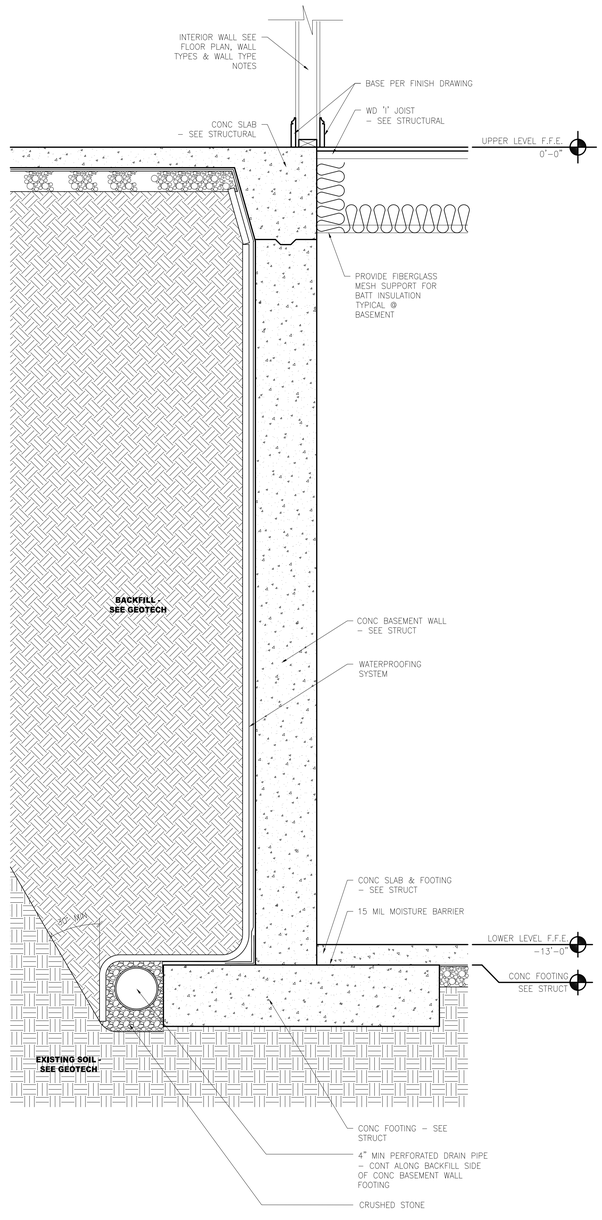

3 WALL SECTION

1"=1'-0"

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SHEET TITLE
WALL SECTIONS

SCALE:

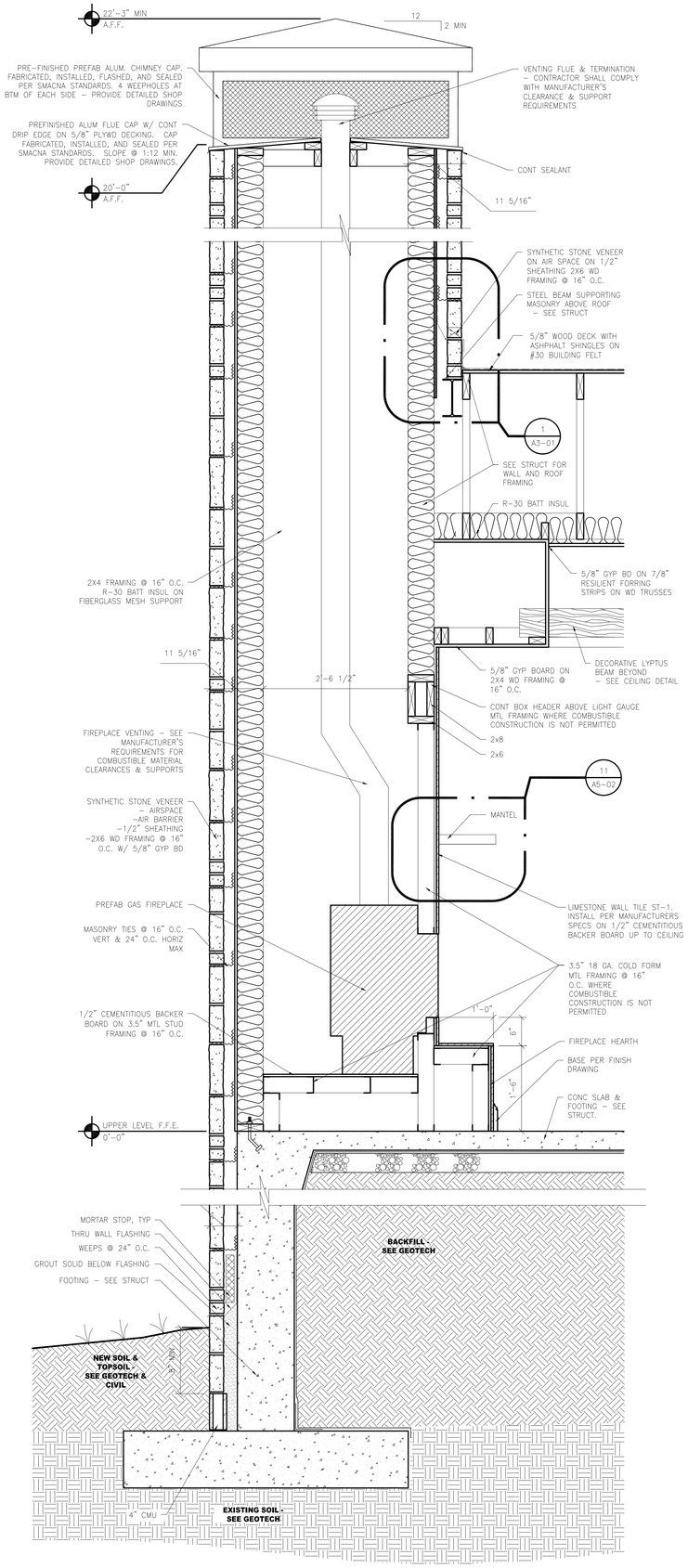
DRAWN BY

A2
11

SHEET NO.

PROJECT NO.

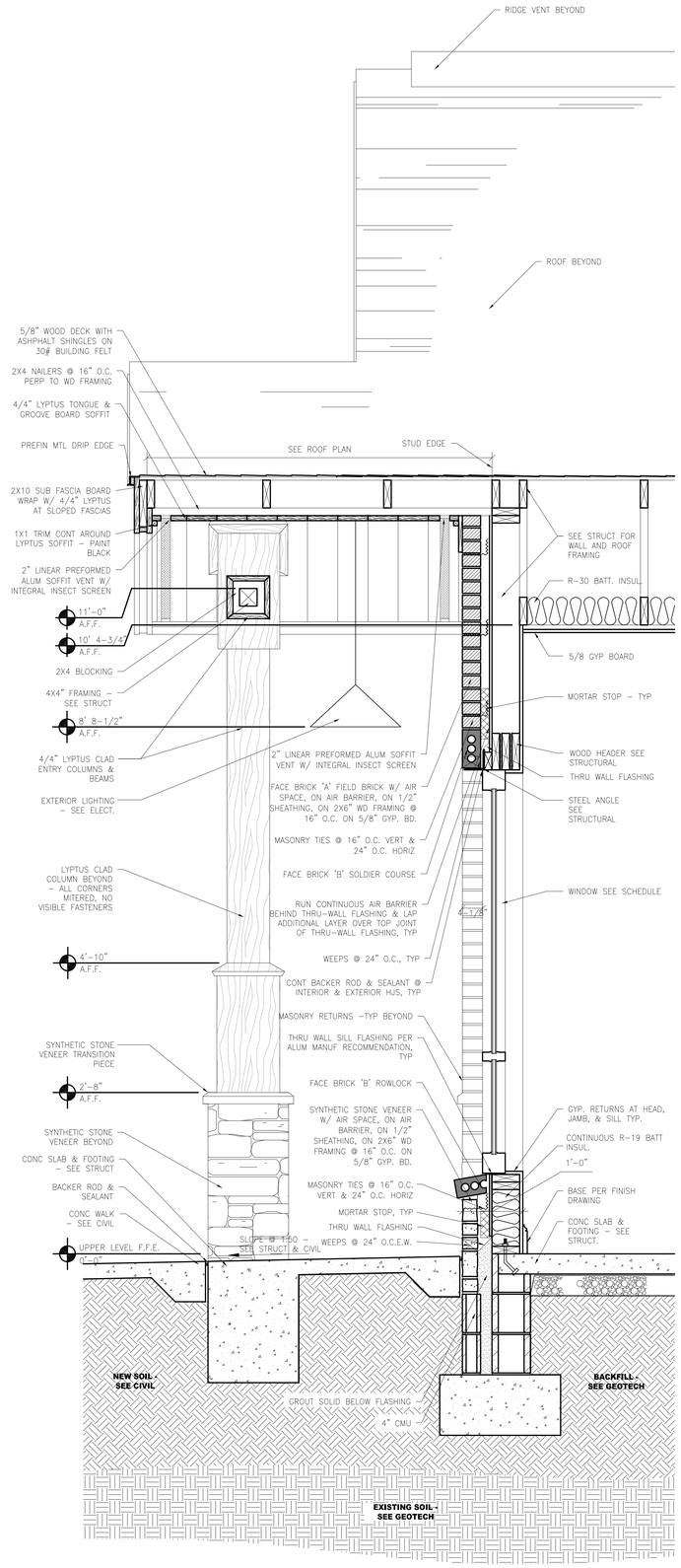
DATE



* NOTE: CONTRACTOR SHALL MEET FIREPLACE MANUFACTURER'S REQUIREMENTS FOR CLEARANCE OF COMBUSTIBLE MATERIALS AROUND FIREPLACE AND FIREPLACE VENTILATION SYSTEM.

1 WALL SECTION

1"=1'-0"



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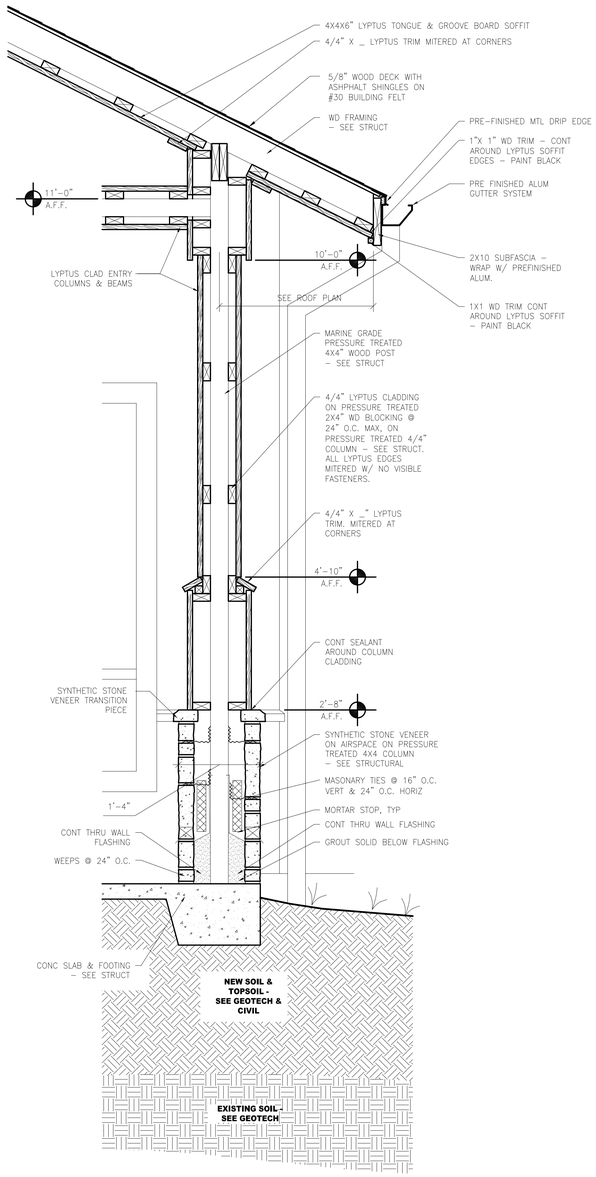

3 WALL SECTION

1"=1'-0"

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SHEET TITLE
WALL SECTIONS

SCALE:

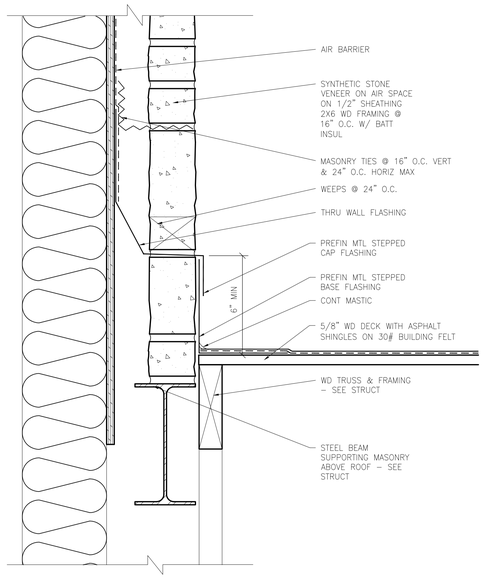
DRAWN BY

A2
12

SHEET NO.

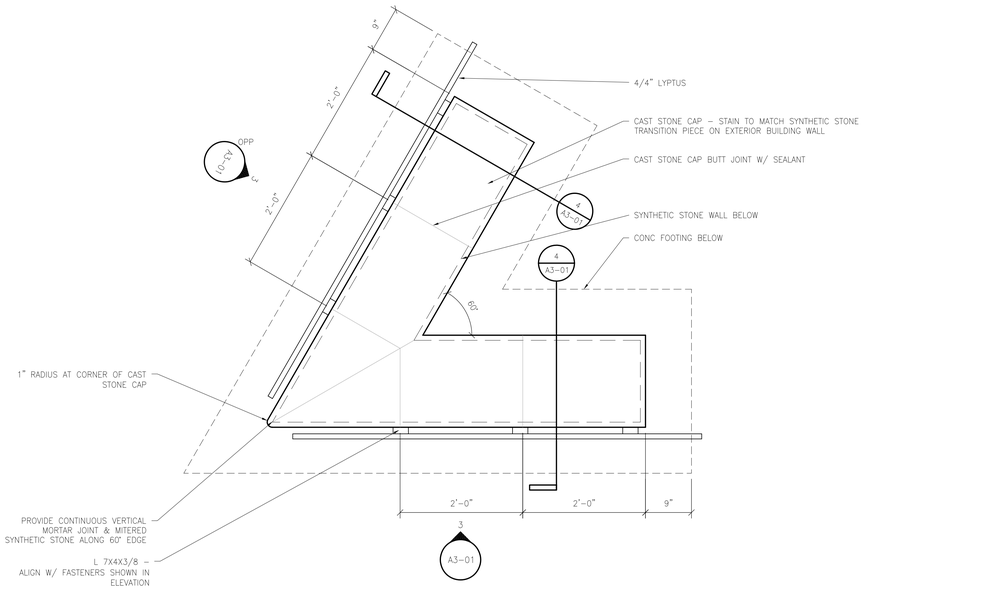
PROJECT NO.

DATE



1 FLASHING DETAIL @ CHIMNEY

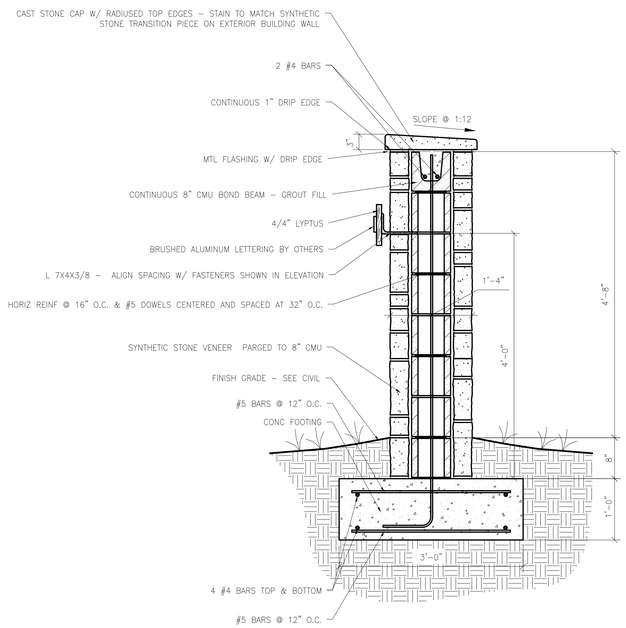
3"=1'-0"



2 EXTERIOR SIGN PLAN

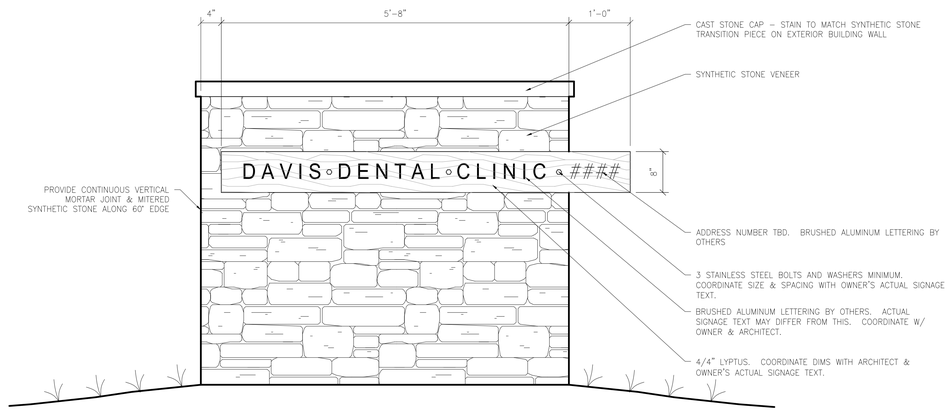
1"=1'-0"

* NOTE: SEE ELECT FOR UP LIGHTING AT BASE OF EXTERIOR SIGN



4 EXTERIOR SIGN ELEVATION

1"=1'-0"



3 EXTERIOR SIGN ELEVATION

1"=1'-0"

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NEW CONSTRUCTION

PATRICK DAVIS DENTAL OFFICE

1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE 11/25/08

CURRENT DATE 11/25/08

REVISIONS

SHEET TITLE
EXTERIOR DETAILS & SIGNAGE

SCALE:

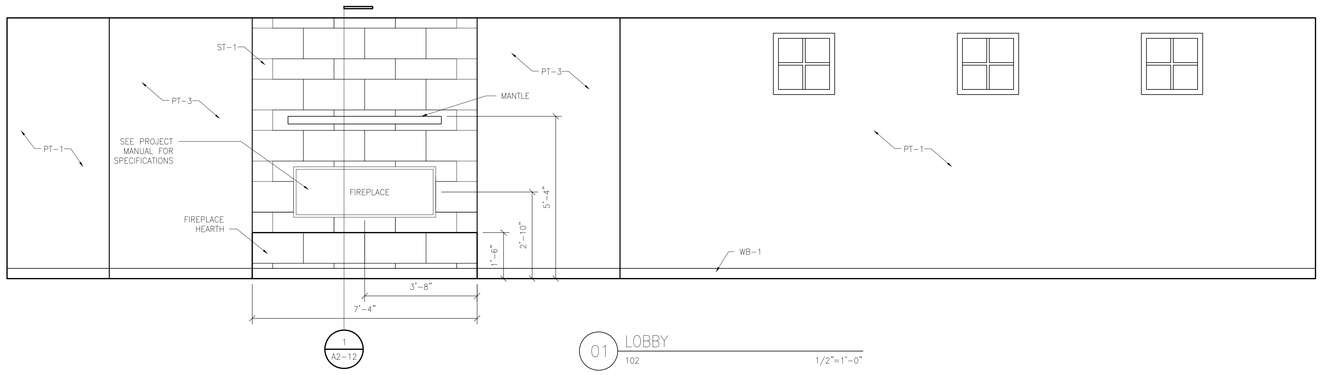
DRAWN BY

A3
01

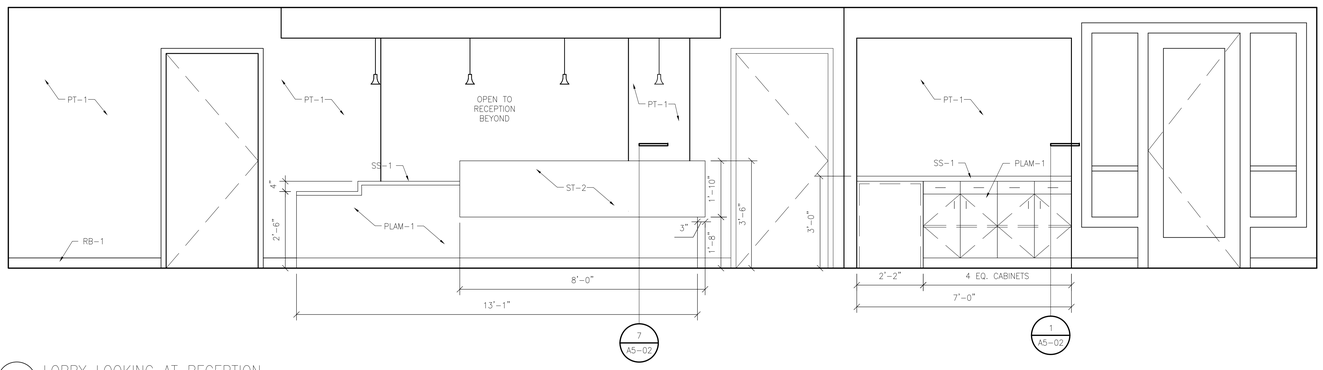
SHEET NO.

PROJECT NO.

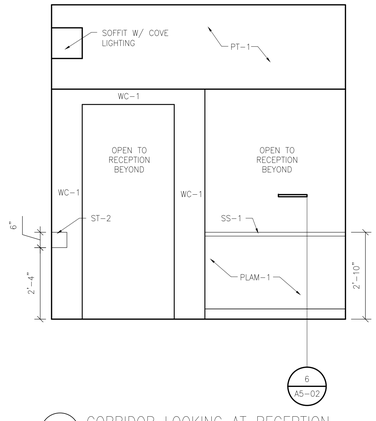
DATE



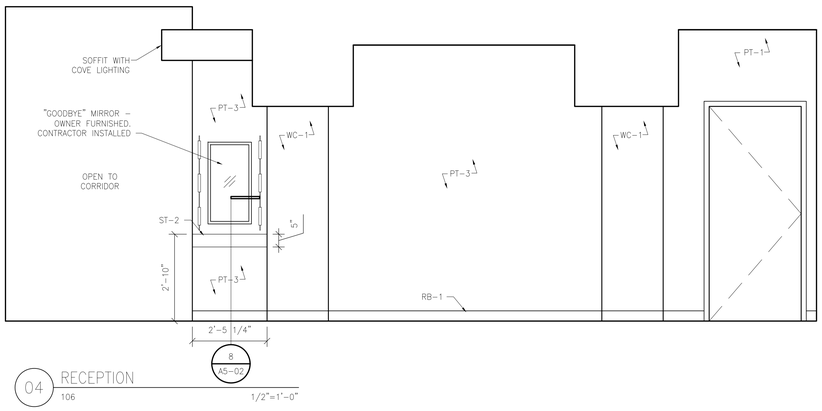
01 LOBBY
102 1/2"=1'-0"



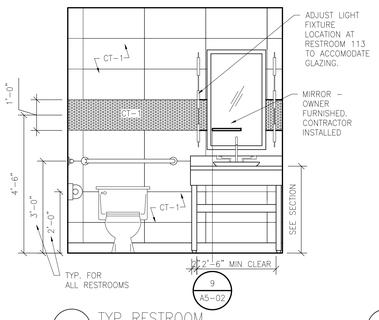
02 LOBBY LOOKING AT RECEPTION
102 1/2"=1'-0"



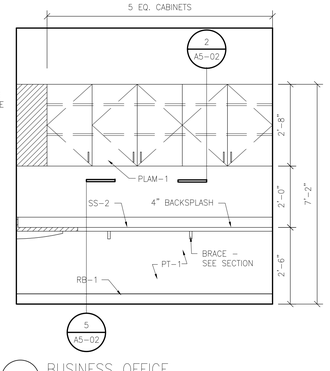
03 CORRIDOR LOOKING AT RECEPTION
107 1/2"=1'-0"



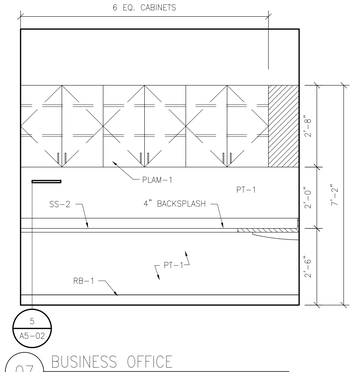
04 RECEPTION
106 1/2"=1'-0"



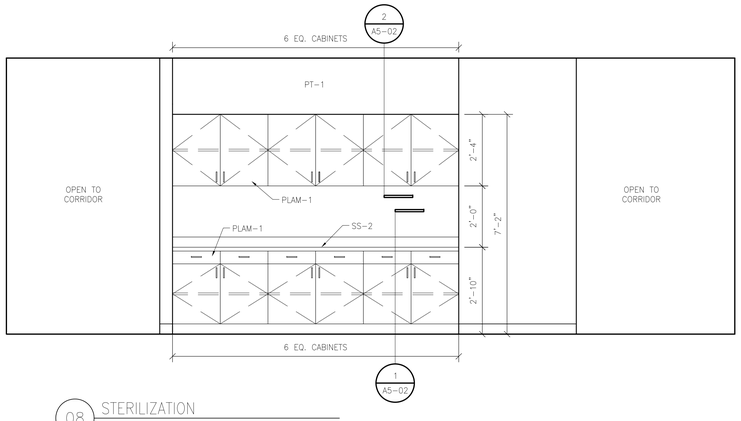
05 TYP RESTROOM
104 1/2"=1'-0"



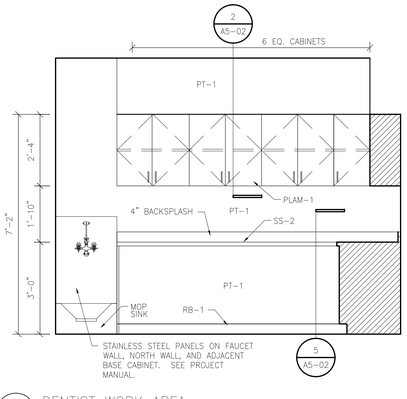
06 BUSINESS OFFICE
105 1/2"=1'-0"



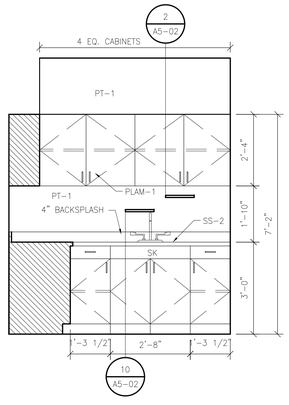
07 BUSINESS OFFICE
105 1/2"=1'-0"



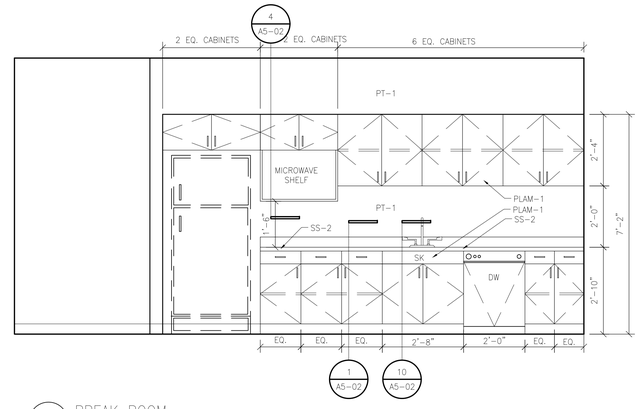
08 STERILIZATION
114 1/2"=1'-0"



09 DENTIST WORK AREA
115 1/2"=1'-0"



10 DENTIST WORK AREA
115 1/2"=1'-0"



11 BREAK ROOM
116 1/2"=1'-0"

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NEW CONSTRUCTION
PATRICK DAVIS DENTAL OFFICE
1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE
11/25/08

CURRENT DATE
11/25/08

REVISIONS

SHEET TITLE
INTERIOR ELEVATIONS

SCALE:

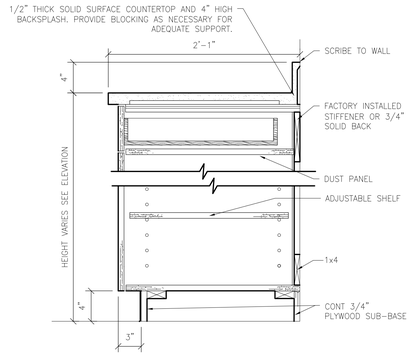
DRAWN BY

A5
01

SHEET NO.

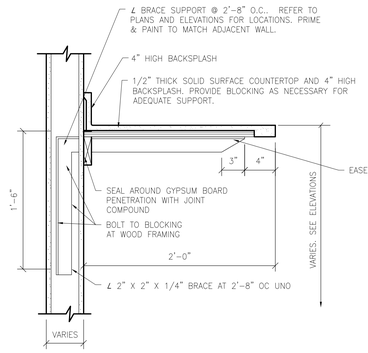
PROJECT NO.

DATE



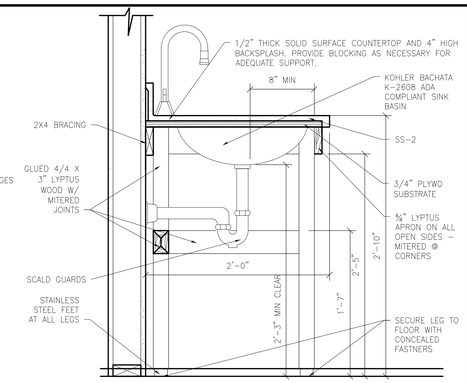
1 BASE CABINET

1 1/2" = 1'-0"



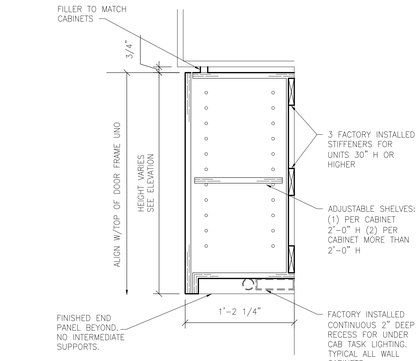
5 COUNTER AT RECEPTION DESK

1 1/2" = 1'-0"



9 RESTROOM VANITY

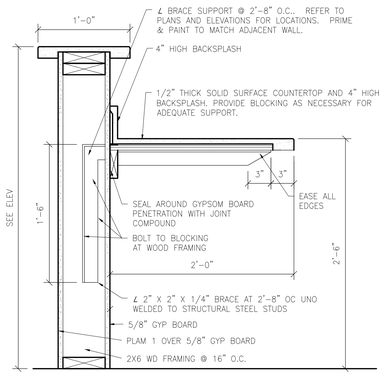
1 1/2" = 1'-0"



2 WALL CABINET

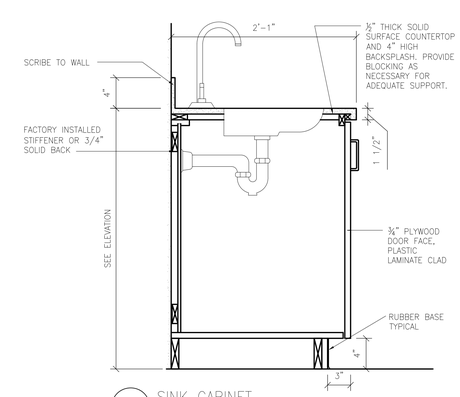
1 1/2" = 1'-0"

*NOTE: PROVIDE SOFFIT ABOVE WALL CABINETS WHERE INDICATED ON REFLECTED CEILING PLAN.



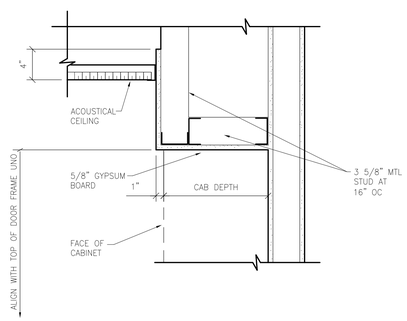
6 COUNTER AT CORRIDOR RECEPTION DESK

1 1/2" = 1'-0"



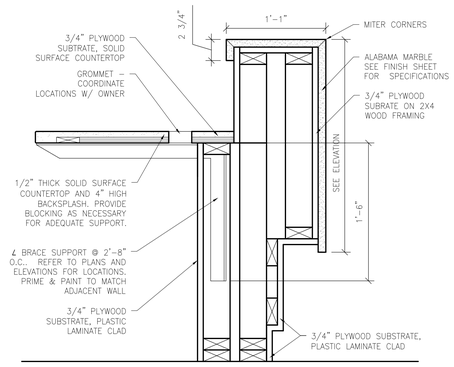
10 SINK CABINET

1 1/2" = 1'-0"



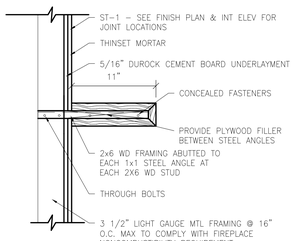
3 TYPICAL SOFFIT OVER CABINET

1 1/2" = 1'-0"



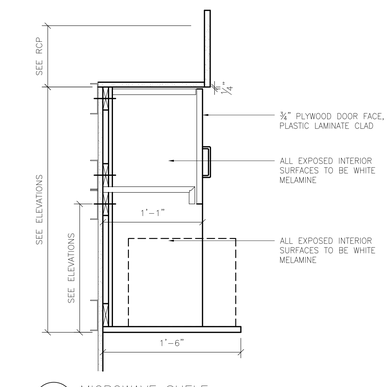
7 MARBLE TRANSACTION TOP AT RECEPTION DESK

1 1/2" = 1'-0"



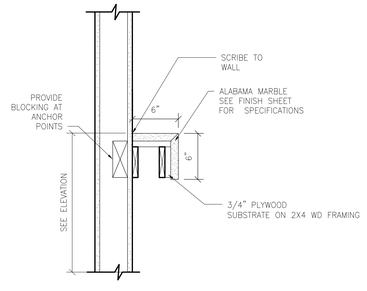
11 MANTEL DETAIL

1 1/2" = 1'-0"



4 MICROWAVE SHELF

1 1/2" = 1'-0"



8 MARBLE SHELF AT PARTITION

1 1/2" = 1'-0"

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NEW CONSTRUCTION

PATRICK DAVIS DENTAL OFFICE

1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE
11/25/08

CURRENT DATE
11/25/08

REVISIONS

SHEET TITLE
STANDARD ARCHITECTURAL WOODWORK DETAILS

SCALE: AS NOTED

DRAWN BY

A5 02

SHEET NO.

PROJECT NO.

DATE

FINISH LEGEND

CERAMIC TILE

CT-1
MANUFACTURER: PANTHEON
STYLE: ALPINE SERIES
COLOR: 10-804 BLANCO
FINISH: RUSTIC
SIZE: 12 x 24
APPLICATION: FLOOR TILE

CONTACT: STU KINNEY
(614) 286-2215

CT-2
MANUFACTURER: PANTHEON
STYLE: GRASSLAND SERIES
COLOR:10-1101 NACAR
FINISH: SATIN
SIZE: 12 x 24
APPLICATION: WALL TILE

CONTACT: STU KINNEY
(614) 286-2215

CT-3
MANUFACTURER: MEDICI MOSAICS
STYLE: SICILY
COLOR: #21
FINISH: GLOSSY
SIZE: .23 X .32 PENNYROUND
APPLICATION: WALL TILE

CONTACT: 1-866-538-9518

CT-4
MANUFACTURER: DALTILE
STYLE: CITYVIEW
COLOR:SEASIDE BOARDWALK
CY06
SIZE: 12 X 24
APPLICATION: FLOOR TILE

CONTACT: SHEA MONTGOMERY
(205)-262-1756

GROUT
MANUFACTURER: MAPEI
STYLE: EPOXY
COLOR: TBD
SIZE: 1/16"

RESILIENT FLOORING

RF-1
MANUFACTURER: ARMSTRONG
STYLE: MARMORETTE
COLOR#: LP07
COLOR NAME: TUMBLEWEED

CONTACT: RUSSELL WRIGHT
1-800-852-9432 EXT. 3040
CELL: 205-470-5814

RF-2
MANUFACTURER: ARMSTRONG
STYLE: MARMORETTE
COLOR#: LP092
COLOR NAME: SAND

CONTACT: RUSSELL WRIGHT
1-800-852-9432 EXT. 3040
CELL: 205-470-5814

RF-3
MANUFACTURER: ARMSTRONG
STYLE: MARMORETTE
COLOR#: LP050
COLOR NAME: SILVER GRAY

CONTACT: RUSSELL WRIGHT
1-800-852-9432 EXT. 3040
CELL: 205-470-5814

WOOD FLOORING

WD-1
MANUFACTURER: ARMSTRONG
STYLE: ENGINEERED HARDWOOD
SPECIES: BIRCH
COLOR#: EPH5009
COLOR NAME: VANILLA BEAN

CONTACT: RUSSELL WRIGHT
1-800-852-9432 EXT. 3040
CELL: 205-470-5814

WOOD BASE

WB-1
MANUFACTURER: MONTGOMERY WOODWORKS
STYLE: 3001
COLOR: TBD
SIZE: 3/4" X 3-7/8"
CONTACT: R.C. (BOB) LINER
PHONE: 205-345-4800 EXT. 13

CARPET TILE

CPT-1
MANUFACTURER: SHAW CONTRACT GROUP
STYLE: WEAVE ACCENT TILE
STYLE#: 59442
COLOR: GOLD LEAF 42170
SIZE: 24" x 24"
INSTALLATION: PER MANUFACTURER'S RECOMMENDATION

CONTACT: JIM ESTES
1-800-424-7429 EXT. 8282
CELL: 205-585-4066

CPT-2
MANUFACTURER: CONSTANTINE COMMERCIAL
STYLE: OXFORD SHEAR
COLOR: C313F86 POETS CORNER
SIZE: BROADLOOM
INSTALLATION: PER MANUFACTURER'S RECOMMENDATION

CONTACT: KATIE FOLK
404-816-7600

RUBBER BASE

RB-1
MANUFACTURER: JOHNSONITE
STYLE: RUBBER COVE BASE
COLOR: 29 MOON ROCK
SIZE: 4"

MISC. FLOORING

SC
SEALED CONCRETE

PLASTIC LAMINATE

PLAM-1
MANUFACTURER: ARPA
STYLE #: 4384
COLOR: BLACK OAK
FINISH: GHIBLI

CONTACT: CORY BROOKS
CELL: 770-650-7375

SOLID SURFACE

SS-1
MANUFACTURER: DUPONT
STYLE: CORIAN
COLOR: LAVA ROCK

CONTACT: EMILY JOHNSON
1-800-938-1200
770-448-5855 EXT. 2141

SS-2
MANUFACTURER: DUPONT
STYLE: CORIAN
COLOR: NATURAL GRAY (F)

CONTACT: EMILY JOHNSON
1-800-938-1200
770-448-5855 EXT. 2141

PAINT

PT-1
MANUFACTURER: SHERWIN WILLIAMS
COLOR: ELDER WHITE SW 7014

PT-2
MANUFACTURER: SHERWIN WILLIAMS
COLOR: UNCERTAIN GRAY SW 6234

PT-3
MANUFACTURER: SHERWIN WILLIAMS
COLOR: TOILE RED SW 006

PT-4
MANUFACTURER: SHERWIN WILLIAMS
COLOR: PORPOISE SW 7047

CONTACT: ROSE POTTS
CELL: 205-879-6119

ACOUSTICAL CEILING TILE

ACT-1
SEE PROJECT MANUAL

STONE

ST-1
MANUFACTURER: VETTERSTONE
STYLE: LIMESTONE
COLOR: ALABAMA SILVER SHADOW
CUT: VEINE CUT
FINISH: HONED FINISH / MACHINE SMOOTH FINISH
SIZE: 12" X 24" . 8" X 24"
APPLICATION: FIREPLACE SURROUND

CONTACT: DAN STUATY
507-345-4568

ST-2
MANUFACTURER: DMI TILE & MARBLE INC.
STYLE: ALABAMA MARBLE
FINISH: HONED FINISH FINISH
APPLICATION: TRANSACTION TOP

CONTACT: 205-322-8473

SPECIALTY PANELS

SP-1
MANUFACTURER: 3 FORM
STYLE: THICKET NATURAL
FINISH: SANDSTONE
GUAGE: 3/8"
APPLICATION: PARTITION

CONTACT: GARRISON MULLER
770-313-8697

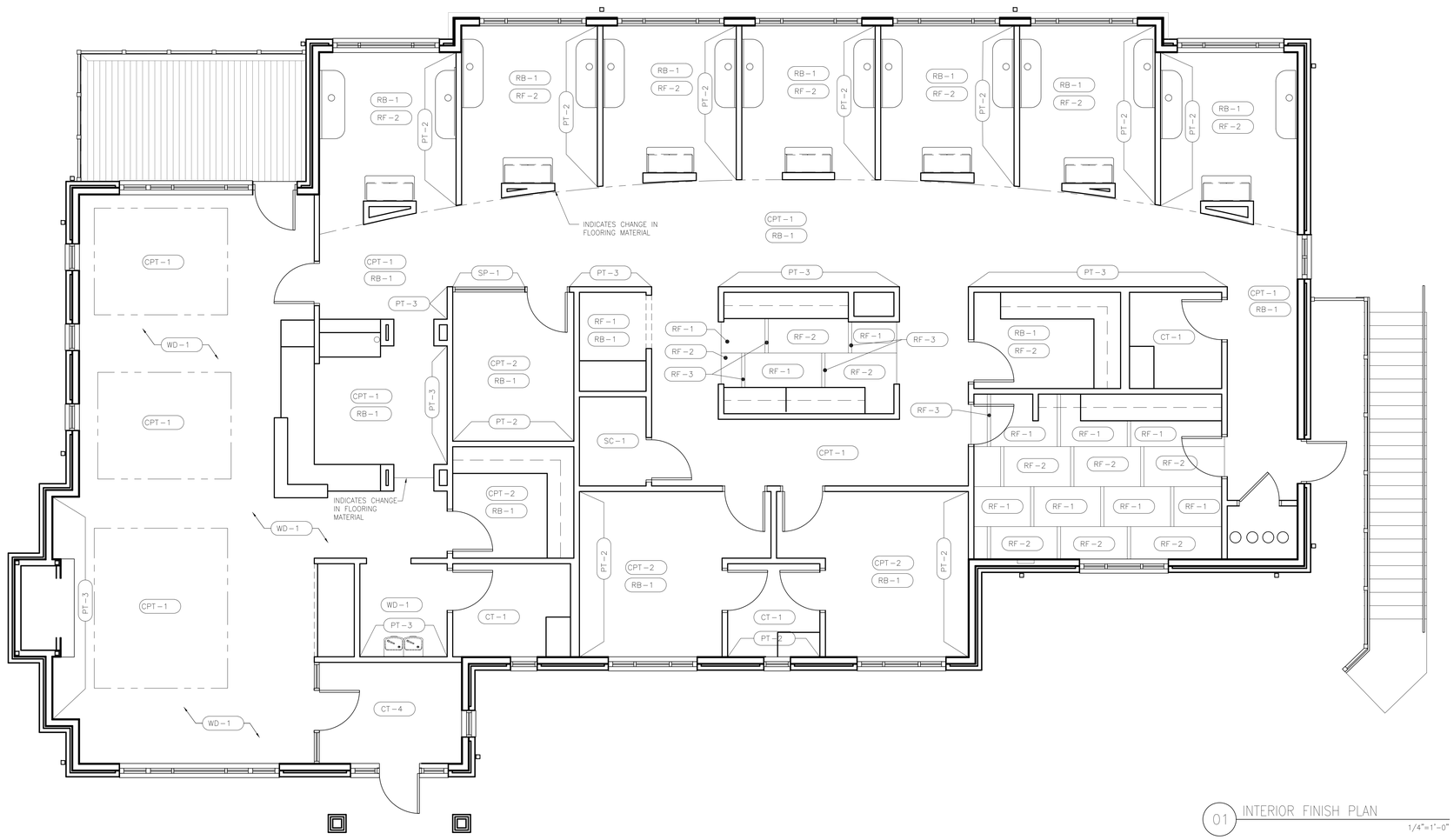
WALLCOVERING

WC-1
MANUFACTURER: MDC WALLCOVERING
LINE: LIN-TEX
COLLECTION: CHI
COLOR: CACAO 1167-CI

CONTACT: RICHARD COLE
1-800-621-4006 EXT. 7406
CELL: 423-505-4579

GENERAL FINISH NOTES

1. UNLESS NOTED OTHERWISE, ALL WALL BASE TO BE RB-1 ROLL GOODS, CONTRACTOR SHALL NOT INSTALL PIECES LESS THAN 3'-0" IN LENGTH.
2. ALL INTERIOR DOORS TO BE PAINTED PT-1, SEMI-GLOSS, ALL INTERIOR WALLS TO BE PAINTED PT-1, EGGSHELL FINISH, AND ALL CEILINGS SHALL BE PAINTED STANDARD CEILING WHITE, FLAT FINISH, UNLESS NOTED OTHERWISE.
3. PAINT ALL WALLS IN JANITOR CLOSETS, SOILED UTILITY ROOMS AND RESTROOMS SEMI GLOSS FINISH PT-1 U.N.O.
4. ALL ACCESS PANELS AND GRILLS ARE TO BE PRIMED AND PAINTED TO MATCH THE SURFACE ON WHICH IT OCCURS.
5. INSTALL VCT WITH GRAIN RUNNING IN THE SAME DIRECTION U.N.O.
6. EPOXY GROUT TO BE USED WITH ALL TILE THROUGHOUT THE SCOPE OF WORK. A GROUT RELEASE IS TO BE USED ON THE ENTIRE SURFACE PRIOR TO INSTALLATION OF THE GROUT.
7. CONTRACTOR IS TO NOTIFY THE ARCHITECT/DESIGNER OF ANY DISCREPANCIES THAT MAY AFFECT APPLICATION OF FINISHES, INCLUDING DISCONTINUED OR DELAYED MATERIALS PRIOR TO ANY PROCEEDINGS. NO SUBSTITUTIONS ALLOWED WITHOUT PRIOR APPROVAL FROM THE ARCHITECT/DESIGNER.
8. EXTEND FINISHES INTO CLOSETS AND STORAGE ROOMS U.N.O.
9. CAULK/SILICON ALL MILLWORK WHERE IT MEETS THE WALL.
10. ALL MILLWORK IS TO BE SELF EDGED U.N.O. NO PVC EDGES.
11. ALL EQUIPMENT TO BE PROVIDED BY OWNER. COORDINATE DRAWINGS WITH MEP FOR EXACT LOCATIONS OF EQUIPMENT, ELECTRICAL REQUIREMENTS AND OUTLET LOCATIONS. CONFIRM ALL REQUIRED DIMENSIONS FOR EQUIPMENT FOR CLEARANCE AND MAINTAINANCE PRIOR TO MILLWORK INSTALLATION.
12. COORDINATE CEILING HEIGHTS WITH REFLECTED CEILING PLANS. NOTIFY THE CONSULTANT OF ANY DISCREPANCIES, PRIOR TO COMMENCEMENT OF WORK.
13. DO NOT SCALE DRAWINGS. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY CONSULTANT OF ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS, PRIOR TO COMMENCEMENT OF WORK.
14. ALL CABINETRY & COUNTER TOPS TO BE PLASTIC LAMINATE FACED WITH PLAM-1 U.N.O.
15. CONFIRM ALL GROMMET SIZES AND LOCATIONS WITH OWNER, FIELD INSTALL.
16. PROVIDE 1" RADIUS AT ALL EXPOSED COUNTERTOP CORNERS, U.N.O.
17. PROVIDE AND INSTALL STRUCTURAL BLOCKING ANCHORED TO STRUCTURE ABOVE AND BELOW, BEHIND ALL WALL-HUNG ITEMS (I.E. CASEWORK, CABINETS, SHELVES, TACK/MARKERBOARDS, ETC.). PROVIDE 6" WIDE, 16 GAUGE, CONTINUOS HORIZONTAL STEEL STRAP BRACING THE FULL LENGTH OF ITEMS TO BE HUNG. MECHANICALLY FASTEN STRAPS TO STRUCTURAL STUDS.
18. SUB-FLOOR TO CLEAN AND CLEAR OF ALL DEBRIS PRIOR TO INSTALLATION OF CARPET. CARPET TO BE ADHERED DIRECTLY TO THE SUB-FLOOR WITH ADHESIVE PER MANUFACTURER'S RECOMMENDED SPECIFICATIONS.
19. AT ALL CHANGES IN FLOORING MATERIALS, PROVIDE VINYL TRANSITION ACCESSORIES AS REQUIRED. COLOR SHALL MATCH RUBBER BASE COLOR AT ALL LOCATIONS. SUBMIT MANUFACTURER'S RECOMMENDATION FOR TRANSITION TO CONSULTANT FOR APPROVAL PRIOR TO PURCHASE OF ALL MATERIAL.
20. THE CONTRACTOR SHALL MAKE SURE ALL SUB SURFACES ARE TO FREE AND CLEAR OF ALL DEBRIS, SMOOTH AND READY TO ACCEPT ALL NEW FINISHES, PER MANUFACTURER'S RECOMMENDATIONS.
21. ALL WELDING RODS ARE TO MATCH THE DARKEST COLOR OF ADJACENT FLOORING MATERIAL IN WHICH THEY OCCUR. OTHER WELDING RODS THAT OCCUR WITHIN SAME COLOR ADJACENT FLOORING SHALL MATCH THE FLOOR COLOR .



01 INTERIOR FINISH PLAN
1/4"=1'-0"

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PATRICK DAVIS DENTAL OFFICE
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TUSCALOOSA, ALABAMA

6504A

ISSUE DATE 11/25/08

CURRENT DATE 11/25/08

REVISIONS

SHEET TITLE
INTERIOR FLOOR PLAN PATTERNS AND COLORS

SCALE:

DRAWN BY

A6
01

SHEET NO.

PROJECT NO.

DATE

Connection	Fastener	#/Spacing
Joist to band joist, face nail	16d common	3
Joist to sill or girder, toe nail	8d common	3
Bridging to joist, toe nail each end	8d common	2
Sole plate to joist, face nail	16d common	16" o.c.
Top or sole plate to stud, end nail	16d common	2
Stud to sole plate, toe nail	8d common	4
Doubled studs, face nail	10d common	24" o.c.
Doubled top plates, face nail	10d common	16" o.c.
Top plates, lap and intersections face nail	---	2-16d or 3-10d common
Continuous header, two pieces	16d common	16" o.c. along each edge
Continuous header to stud, toe nail	8d common	3
Built-up corner studs	16d common	24" o.c.
Wood Structural Panel	see detail	

Stud Spacing Schedule	
Level	Size & Spacing
1st basement	exterior walls 2x6 @ 16" o.c. 2x6 @ 16" o.c.
1st	interior bearing walls 2x4 @ 16" o.c.

Note:
see architectural drawings for locations of any non-load-bearing walls that may be required

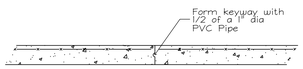
Reinforcing Steel Lap Splice Lengths				
Bar Size	Column Splices	Bm, Ftg & Wall Splices Top Bars	Other Bars	CMU Wall Splices
# 3	12"	19"	15"	18"
# 4	15"	25"	19"	24"
# 5	19"	31"	24"	30"
# 6	23"	37"	29"	36"
# 7	26"	54"	42"	42"
# 8	30"	62"	48"	48"
# 9	34"	70"	54"	54"
# 10	38"	79"	61"	60"
# 11	42"	87"	67"	66"

Notes:
1. Top bars are any horizontal reinforcing steel that has another layer of steel more than 2" below the bars or reinforcing steel that has more than 12" of concrete below the bars.
2. All horizontal reinforcing bars in walls may detailed as "Other Bars".
3. All corner bars may be detailed as "Other Bars".

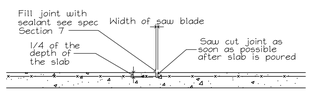
Lintel Schedule	
Span	Lintel Size
<= 4'-0"	L 3 1/2"x3 1/2"x5/16"
<= 6'-0"	L 4"x3 1/2"x5/16"
<= 8'-0"	L 5"x3 1/2"x5/16"

Note:
Provide 8" bearing each end of all lintels. Provide one lintel for each 4" of masonry thickness. Note: see architectural drawings for location of lintel angles.

Foundation Schedule				
Mark	Width	Length	Depth	Reinforcing
F36	3'-0"	3'-0"	1'-0"	4 # 4 bars e.w.

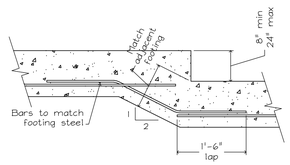


Typical Construction Joint

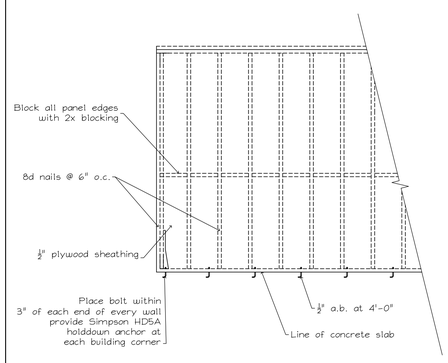


Note: Saw cut joint must be made the same day the slab is poured

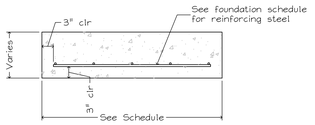
Typical Control Joint



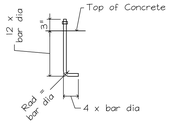
Typical Footing Step



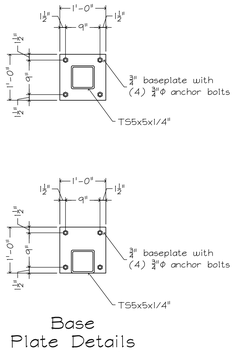
Typical Exterior Sheathing Shear Wall Panel Construction



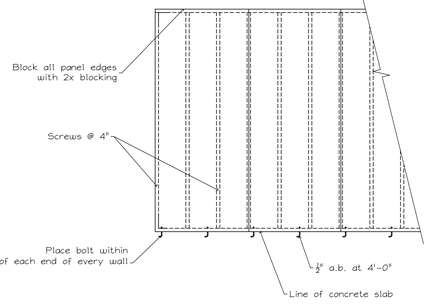
Typical Footing Cover



Typical Anchor Bolt Detail

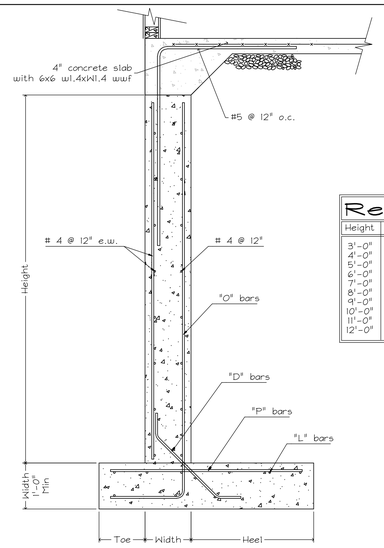


Base Plate Details



Typical Gypsum Shear Wall Panel Construction

Note: this detail includes interior load bearing walls and other walls noted on foundation plan

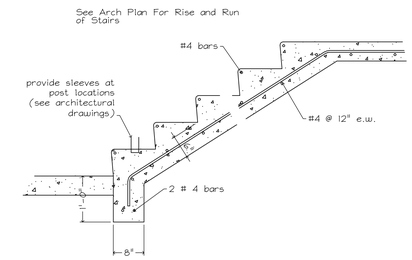


Section 03

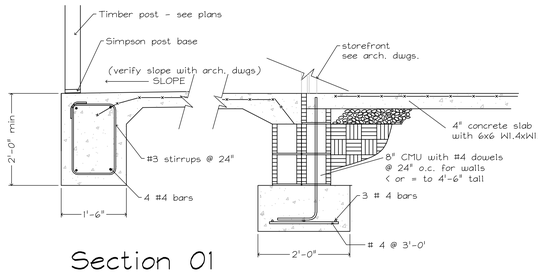
Retaining Wall Schedule							
Height	Width	Toe	Heel	"O" bars	"P" bars	"D" bars	"L" bars
3'-0"	0'-8"	0'-6"	1'-0"	# 4 @ 12"	# 4 @ 12"	# 4 @ 12"	4 # 4 bars
4'-0"	0'-8"	0'-6"	1'-7"	# 4 @ 12"	# 4 @ 12"	# 4 @ 12"	4 # 4 bars
5'-0"	0'-8"	0'-6"	2'-2"	# 4 @ 12"	# 4 @ 12"	# 4 @ 12"	4 # 4 bars
6'-0"	0'-8"	0'-8"	2'-5"	# 4 @ 12"	# 4 @ 12"	# 4 @ 12"	4 # 4 bars
7'-0"	0'-8"	1'-0"	2'-6"	# 4 @ 12"	# 4 @ 12"	# 4 @ 12"	4 # 4 bars
8'-0"	1'-0"	1'-0"	2'-8"	# 4 @ 12"	# 4 @ 12"	# 4 @ 12"	4 # 4 bars
9'-0"	1'-0"	1'-0"	3'-2"	# 4 @ 11"	# 4 @ 11"	# 4 @ 11"	5 # 4 bars
10'-0"	1'-0"	1'-2"	3'-7"	# 5 @ 12"	# 5 @ 12"	# 4 @ 11"	5 # 4 bars
11'-0"	1'-1"	1'-5"	4'-1"	# 5 @ 9"	# 5 @ 9"	# 4 @ 9"	6 # 6 bars
12'-0"	1'-2"	1'-6"	4'-7"	# 5 @ 8"	# 5 @ 8"	# 4 @ 8"	6 # 6 bars

Notes:
1. All concrete shall be 4000 psi @ 28 days.
2. All reinforcing steel shall be ASTM A 615 Grade 60.
3. Provide 2" dia weep holes through the wall @ 10'-0" o.c.
4. Provide vertical scored control joints @ 10'-0" o.c.

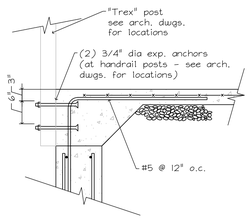
Section 01



Stairs On Grade



Section 01



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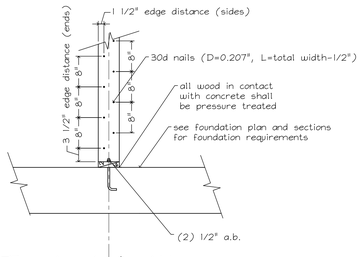

Typical built-up column attachment detail

GENERAL NOTES
1. Any omissions or discrepancies between plans, details, and specifications shall be brought to the attention of the Architect or Engineer before bidding.
2. Structural drawings or parts of the structural drawings may not be used as shop drawings without prior written approval.
3. All or parts of these drawings were produced with computer aided drafting. Drawings are available from the Engineer in DWG format on reqyest.
4. Contractor proposed changes to details must be clearly noted on the first sheet of all shop drawings.
5. Construction shown is stable after the building is complete including interior and exterior finishes. The Contractor is responsible for temporary bracing of the structure during construction.

DESIGN LOADS
1. Reference code for loading SEI/ASCE7 7-02.
a. Building Classification II
b. Wind Loading
1) Basic Wind Speed 90 mph
2) Wind ExposureB
3) Velocity Pressure (qz) 17.62 psf
c. Earthquake Loads
1) Effective Peak Velocity-related acceleration
Sds 0.25
Sd1 0.11
2) Site Class D
d. Roof Load 20 psf
e. Slabs on grade 100 psf
f. corridors above 1st floor 80 psf
g. offices 50 psf

FOUNDATIONS
1. Foundation design for this project was based on soils information provided by TTL, Inc., dated July 15, 2008 (project no. 100108-054)
2. Bearing value of soil:
3. Continuous footings---------- 2500 psf
4. Isolated spread footings---------- 2500 psf
5. All footings are to bear on existing grade or engineered fill. Geotechnical report must be followed for site preparation to achieve noted allowable pressures and to minimize settlement.
6. Step all footings where necessary to provide a minimum of 1'-0" below the finish grade or 0'-8" below finish floor.
7. All footing elevations are given to the top of the footings.
8. Footing steps shown on the plans are furnished as a guide for estimating quantities. Final elevations are to be set in the field. Bearing elevations must be approved by a Soils Engineer before any concrete is placed.
9. Coordinate foundation elevations with plumbing requirements. Step footings as required to clear plumbing lines.

MASONRY
1. All masonry work shall be in accordance with "Building Code Requirements for Concrete Masonry Structures" ACI 530-99 and "Specifications for Masonry Structures" ACI 530.1-99
2. Fill all concrete masonry units with concrete or grout from the top of the footing to the finish floor or to 8" above finish grade whichever is higher.
3. Use ladder type joint reinforcement at 16" on center in all cavity walls where brick is used for one or more of the wythes.
4. Use Type "M" or Type "S" mortar in accordance with SBC Table 2104.7A.
5. Minimum compressive strength of concrete masonry f'm = 1500 psi. Submit for review test data on strength of units before starting any masonry work.
6. Use "Fine" grout for all reinforced piers and reinforced walls in accordance with ASTM C 476.

REINFORCING STEEL AND CONCRETE
1. All concrete work is to be in accordance with the "Building Code Requirements for Reinforced Concrete" (ACI 318-02).
2. All detailing is to be in accordance with "ACI Detailing Manual" SP-66
3. Concrete Properties

Concrete Use	Design Strength	Min W/C Ratio	Slump Limits	Entrained Air Range	Weight	Notes:
Footings	3000 psi	n/a	3" to 5"	3% to 5%	150 pcf	---
Slabs on Grade	4000 psi	n/a	6" to 8"	3% to 5%	150 pcf	Use HRWR
Walls	4000 psi	n/a	6" to 8"	3% to 5%	150 pcf	Use HRWR

a. All concrete must obtain 7 day strength of 70% of design strength.
a. Concrete mixes may use up to 25% of cementious weight as fly ash.
b. Concrete mixes may use water reducers, accelerators or retarders with prior approval.
4. All steel reinforcement shall be of deformed bars of billet steel conforming to ASTM A615, Grade 60 in all concrete.
5. Welded wire fabric shall be ASTM 185 and shall lap 2 cross wires or 6" whichever is greater on all sides. All laps shall be wired together.
6. See Plan for slab thickness, reinforcing and joint spacing Reinforcing shall be located 1" below top of slab. Slabs are to be placed on 10 Mil, PVC vapor barrier over 4" of porous fill. See Architectural Plans for floor slopes and recesses for hard tile.
7. Concrete cover for reinforcement:
a) Footings 3"
8. Contractor shall include an allowance of 2.0 tons of reinforcing steel in place in addition to the steel shown on the contract documents in the base bid. This steel is to be placed at no additional cost to the Owner in sizes and at locations as directed by the Architect or Engineer. Unused steel will be credited to the Owner.
9. Use 3/4" chamfer for all exposed corners unless noted.
10. Provide a continuous water bar at all wall construction joints below ground level.

STRUCTURAL STEEL
1. All detailing, fabricating, and erection of structural steel shall be in accordance with the 1989 AISC "Specifications for Design of Structural Steel Buildings - Allowable Stress Design and Plastic Design".
2. All connections are to be detailed as Type 2 "simple frame connections".
3. All structural steel W shapes shall be ASTM A992.
4. All structural steel Tube sections shall be ASTM A500 Grade B.
5. All structural steel channels, angles and other sections shall be ASTM A36, unless noted.
6. Shop and field connections shall be welded with E-70XX electrodes or bolted with 3/4" dia. A-325N or A-325F bolts, unless noted.
7. Use 3/4" cap and bearing plates, unless noted.
8. Use 3/4" dia x 1'-0" long anchor bolts, unless noted.
9. Contractor shall include an allowance of 1.00 tons of structural steel in place in addition to the steel shown on the contract documents in the base bid. This steel is to be placed at no additional cost to the Owner in sizes and at locations as directed by the Architect or Engineer. Unused steel will be credited to the Owner.

WOOD (STRUCTURAL)
1. All vertical framing shall be Spruce-Pine-Fir, #2.
2. Provide minimum of 2"x 6" top and bottom chord for all truss members.
3. Furnish design calculations sealed by a Professional Engineer licensed in the State of Alabama for all truss members.
4. Truss manufacturer shall provide all truss to truss connections and truss to wall connections.
5. Truss manufacturer shall be responsible for providing all temporary and permanent lateral bracing required to transfer all lateral loads from the roof system to the shear walls noted on plan. Truss manufacturer shall submit a permanent bracing plan for approval.
6. Provide 4 studs at all beam and girder truss bearing locations.
7. Roof sheathing shall be nailed with 8d nails at 6" o.c.

TESTING
1. All testing is to be completed under the supervision of the structural engineer.
2. The owner shall obtain testing and special inspection services under a separate contract. Refer to the project schedule of special inspections for the necessary tests and inspections.

Barnett · Jones · Wilson, LLC
Structural Engineers Pell City & Tuscaloosa Alabama www.struct-engr.com
Phone 205-345-9995 Fax: 205-345-9563

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NEW CONSTRUCTION
PATRICK DAVIS DENTAL OFFICE
1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE
11-25-08

CURRENT DATE
11-25-08

REVISIONS

SHEET TITLE
GENERAL NOTES AND TYPICAL SECTIONS
SCALE: AS-NOTED

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S0
01

SHEET NO.

PROJECT NO.

DATE

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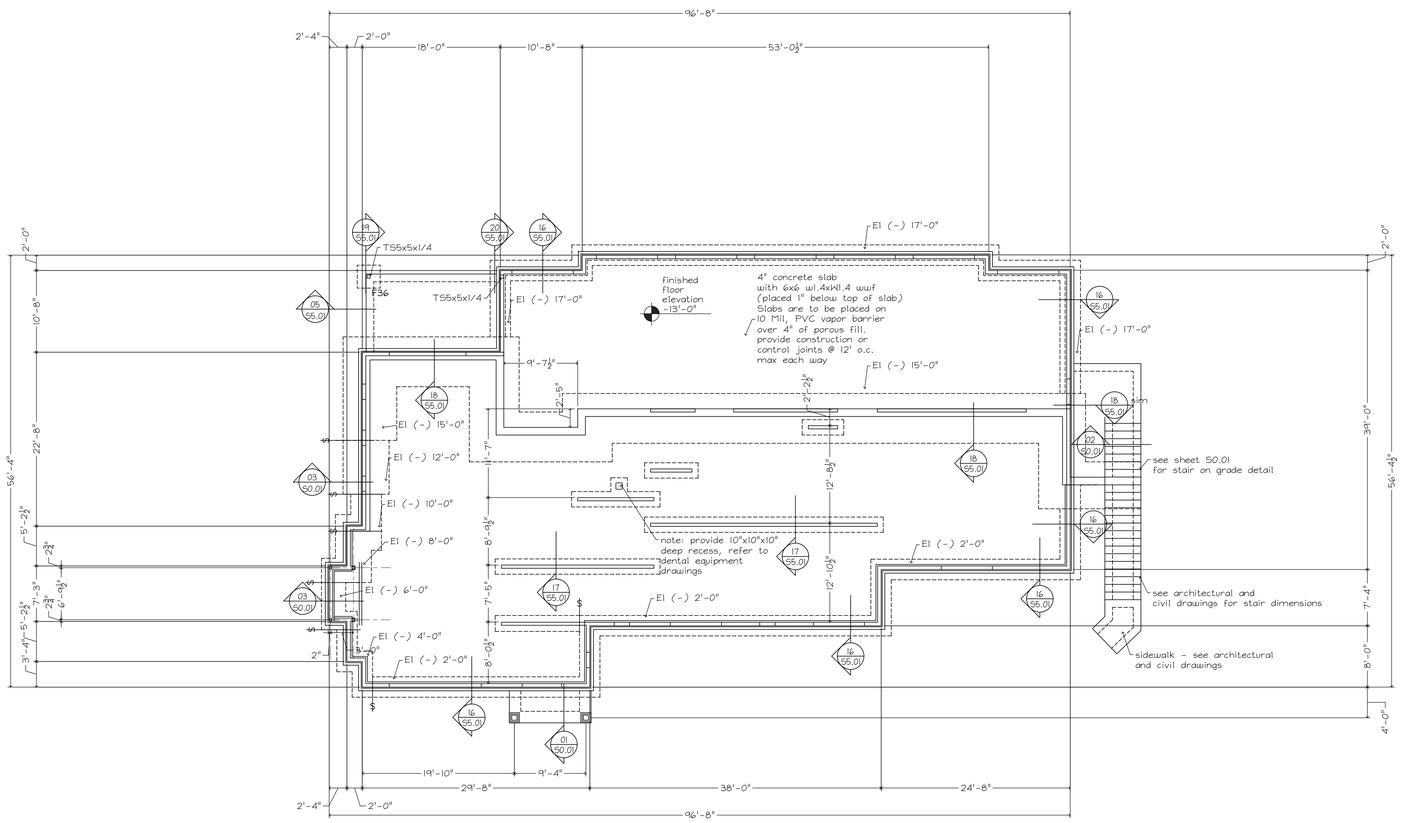

Foundation Plan

Scale $\frac{1}{8}$" = 1'-0"

Sheet Notes:
1. See Sheet No S0.01 for typical details and general notes.
2. Reference all elevations to finish floor elevation (+) 0'-0"
3. Top of all exterior footings elevation (-) 2'-0" unless noted.
4. Bottom of all interior footings elevation (-) 1'-6" unless noted.
5. $ indicates footing steps.

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JENNIFER DAVIS WILSON

NEW CONSTRUCTION
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SHEET TITLE
FOUNDATION PLAN

SCALE: 1/8"=1'

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S1 01

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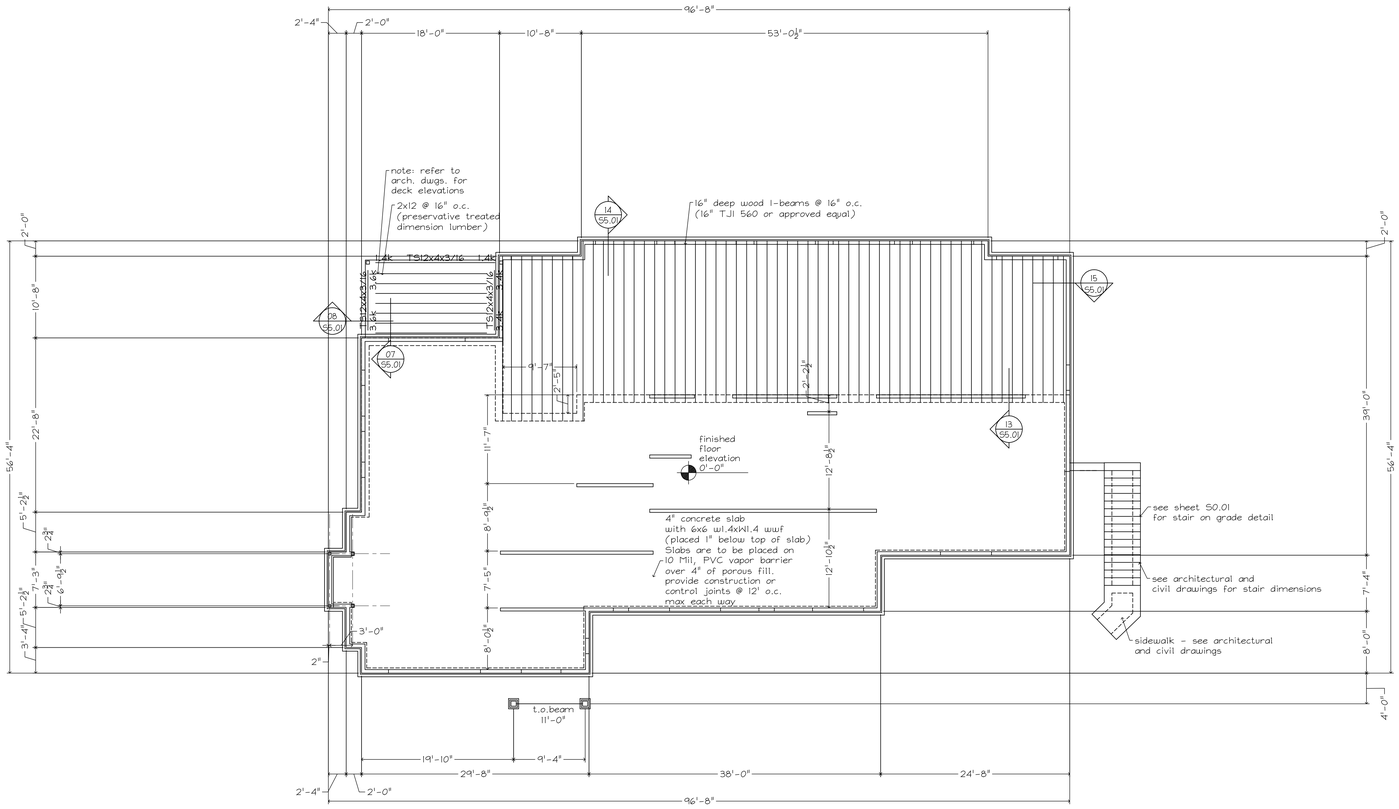

Floor Framing Plan (over basement)

Scale ⅛" = 1'-0"

Sheet Notes:
1. See Sheet No S0.01 for typical details and general notes.
2. Reference all elevations to finish floor elevation (+) 0'-0"
3. Floor construction: ¾" plywood on wood I beam framing spaced at 16" o.c.

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SHEET TITLE
FIRST FLOOR FRAMING PLAN

SCALE: 1/8"=1'

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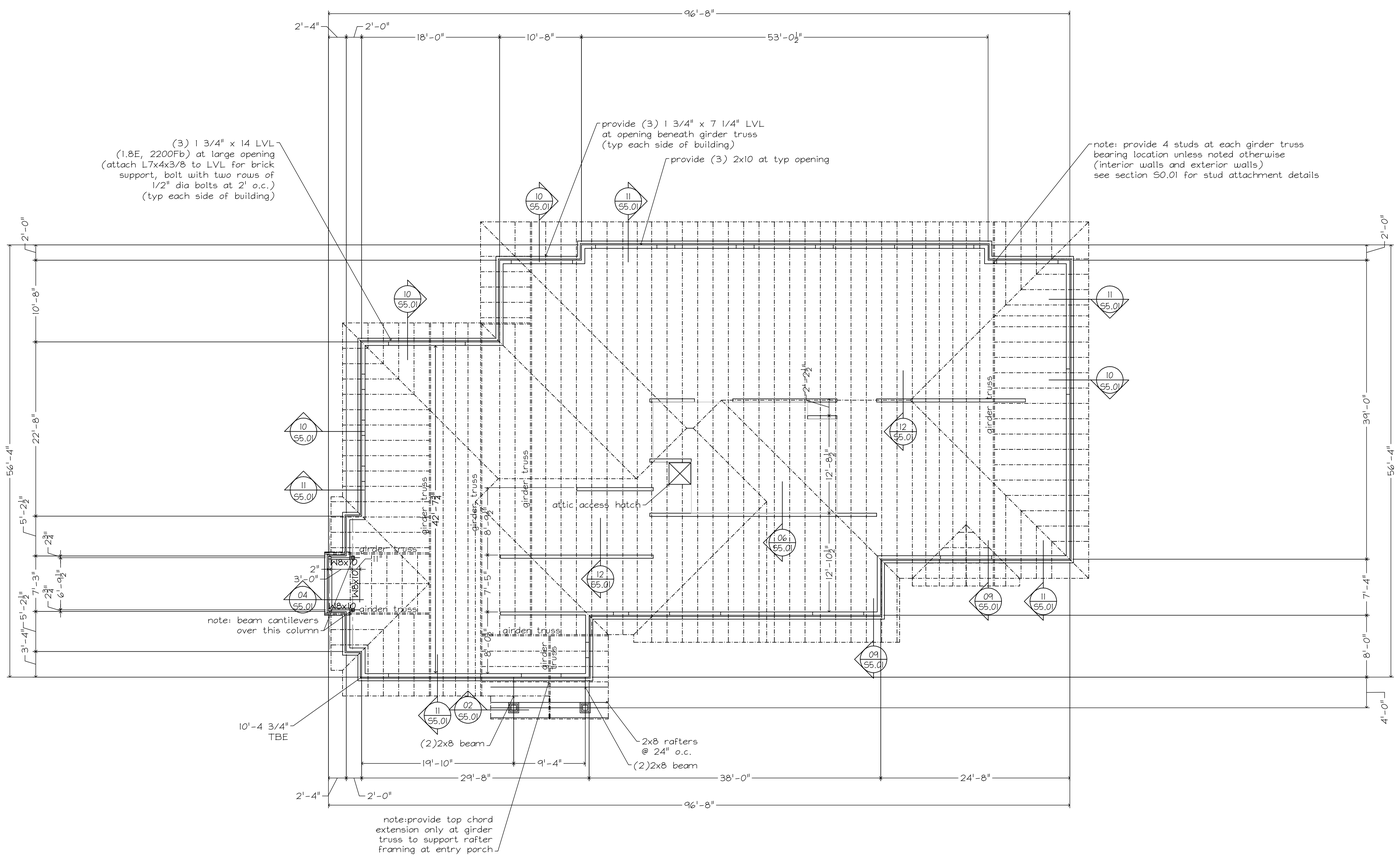
PROJECT NO.	
DATE	

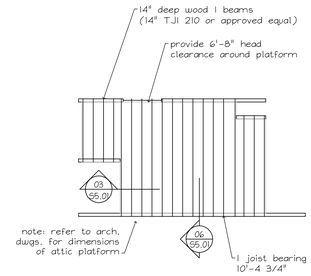
TRUSS REQUIREMENTS
(all of these requirements must be included in truss submittals prior to receiving approval)
1. Furnish design calculations sealed by a Professional Engineer licensed in the State of Alabama for all truss members.
2. Truss manufacturer shall provide all truss to truss connections and truss to wall connections and not contain mention of "by others" in relation to design.
3. Truss manufacturer shall be responsible for providing all temporary and permanent lateral bracing required to transfer all lateral loads from the roof system to the shear walls noted on plan. Truss manufacturer shall submit a permanent bracing plan for approval.
4. Truss manufacturer shall provide 2x6 top and bottom chords minimum.



Roof Framing Plan

Scale 1/8" = 1'-0"

Sheet Notes:
1. See Sheet No S0.0 for typical details and general notes.
2. Reference all elevations to finish Floor elevation (+) 0'-0"
3. Top of plate elevation (truss bearing) = 10'-4 3/4"
4. Roof construction: 1/2 plywood decking on engineered wood trusses (unless noted otherwise) (top chord dead load 10 psf, top chord live load 20 psf, bottom chord dead load 10 psf)
5. Contractor shall provide 4 studs minimum under ends of all girder trusses and LVL beams.
6. Refer to architectural drawings for dimensions not shown.



Mezzanine Framing Plan

Scale 1/8" = 1'-0"

Sheet Notes:
1. See Sheet No S0.0 for typical details and general notes.
2. Reference all elevations to finish Floor elevation (+) 0'-0"
3. Truss manufacturer shall refer to architectural drawings and corresponding structural details of the attic floor framing for its extent and affect to the layout of the wood roof trusses.
4. Contractor shall provide 4 studs minimum under ends of all girder trusses and LVL beams.
5. Floor construction: 3/4" plywood on wood I beam framing spaced at 16" o.c.
6. Refer to architectural drawings for dimensions not shown.

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SHEET TITLE
ROOF FRAMING PLAN

SCALE: 1/8"=1'

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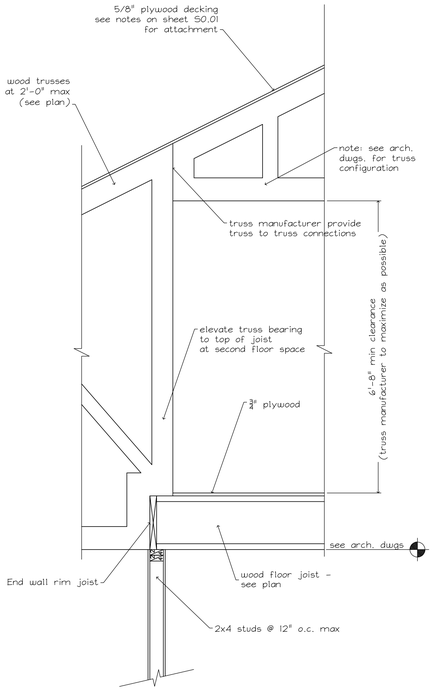
S3 01

SHEET NO.

PROJECT NO.

DATE



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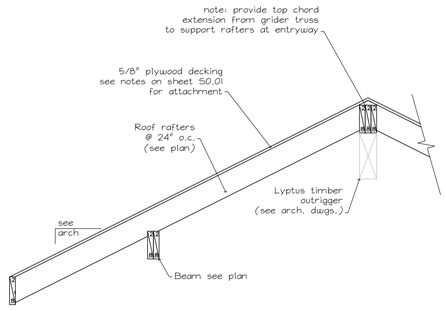

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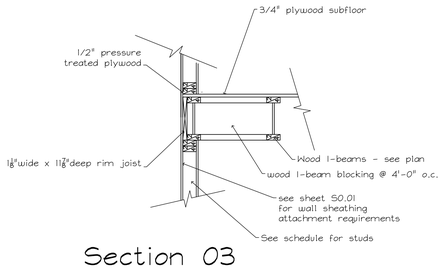

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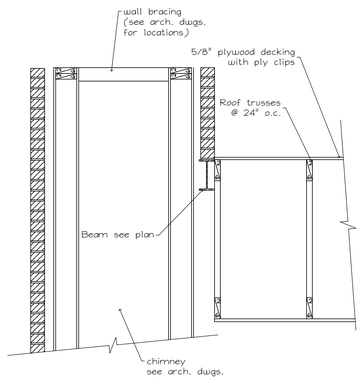

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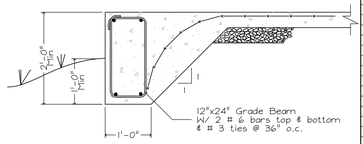

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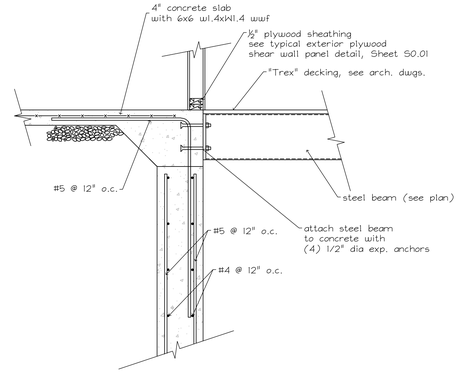

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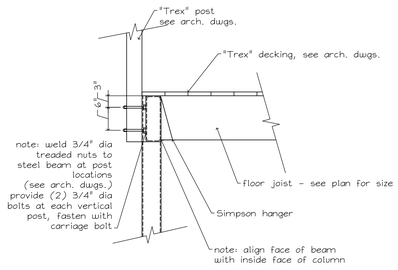
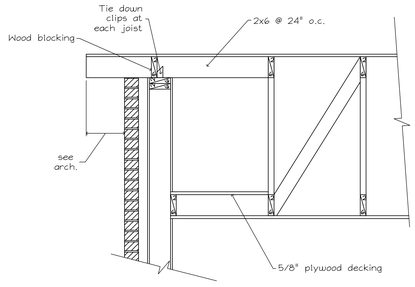


Section 08



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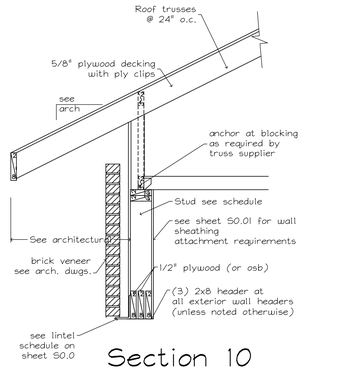

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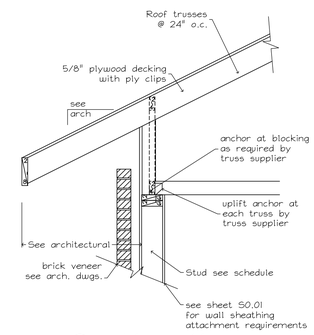

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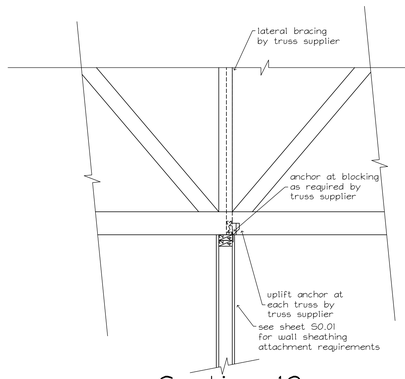

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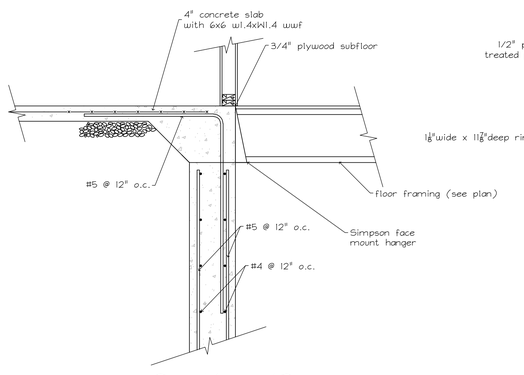

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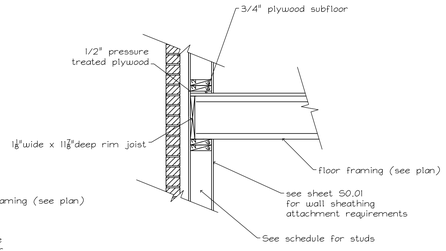

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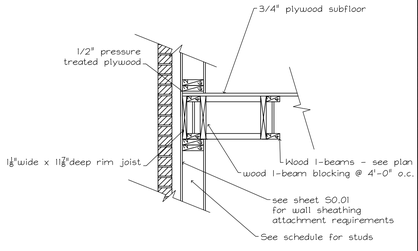

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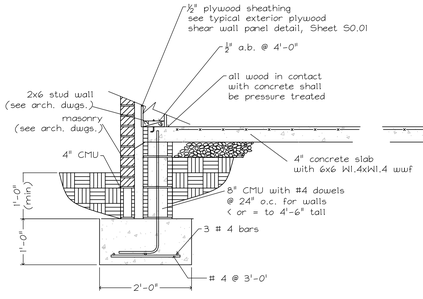

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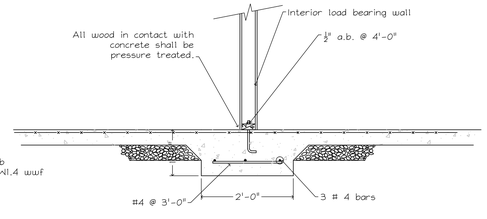

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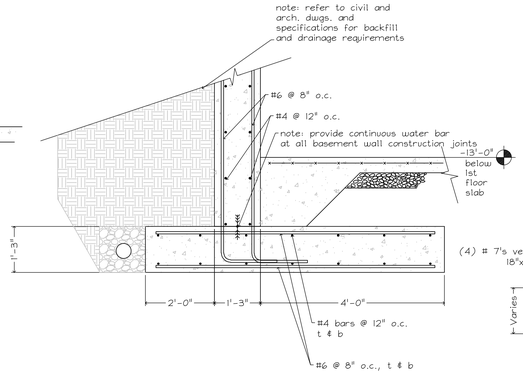

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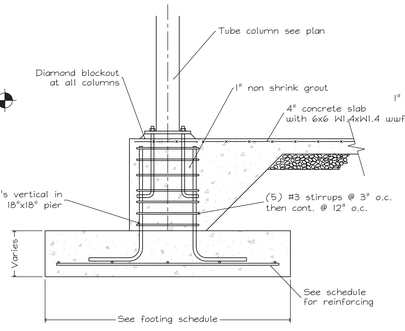

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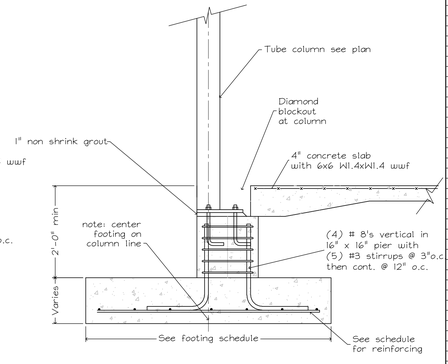

Section 20

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11-25-08

NEW CONSTRUCTION
PATRICK DAVIS DENTAL OFFICE
1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE
11-25-08

CURRENT DATE
11-25-08

REVISIONS

SHEET TITLE
SECTIONS

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

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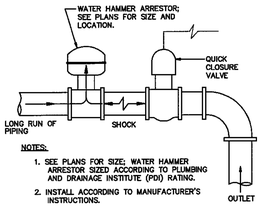
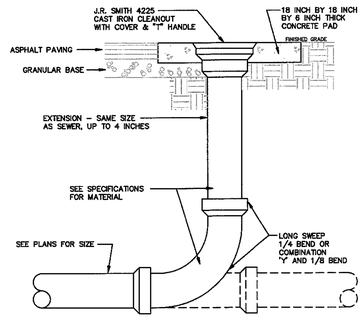
S5
01

SHEET NO.	
PROJECT NO.	
DATE	



NOTES:
1. SEE PLANS FOR SIZE; WATER HAMMER ARRESTOR SIZED ACCORDING TO PLUMBING AND DRAINAGE INSTITUTE (PDI) RATING.
2. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

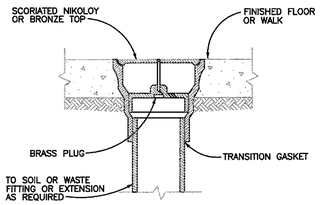
WATER HAMMER ARRESTOR
NO SCALE



EXTERIOR CLEANOUT
NO SCALE

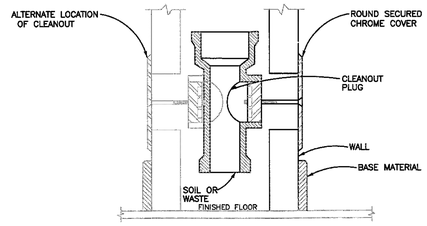
GENERAL NOTES:

1. ALL HORIZONTAL PRESSURE PIPING SHALL BE RUN ABOVE CEILING ON THE PLAN ON WHICH SHOWN UNLESS OTHERWISE NOTED.
2. ALL HORIZONTAL GRAVITY PIPING SHALL BE RUN BELOW FLOOR ON THE PLAN ON WHICH SHOWN UNLESS OTHERWISE INDICATED. ALL HORIZONTAL VENT PIPING SHALL BE RUN ABOVE FLOOR ON THE PLAN ON WHICH SHOWN UNLESS OTHERWISE INDICATED. VENT PIPING IS SHOWN OFFSET FOR CLARITY.
3. THE LOCATION OF FLOOR DRAINS SHALL BE COORDINATED WITH THE LOCATION AND SIZE OF THE EQUIPMENT BEING SERVED PRIOR TO INSTALLATION.
4. COORDINATE ROUTING OF PIPING TO AVOID CONFLICTS WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL WITHIN THE BUILDING PRIOR TO INSTALLATION.
5. COORDINATE LOCATION OF VENT STACKS PENETRATING ROOF (VTRS) WITH MECHANICAL, TO AVOID CONFICTS WITH OUTSIDE AIR INTAKES.



FLOOR CLEANOUT
NO SCALE

WALL CLEANOUT NOTES:
1. LOCATE CLEAN-OUT ON WALL ABOVE BASE MATERIAL.
2. COORDINATE FINAL CLEAN-OUT LOCATION WITH ARCHITECT; LOCATE WALL CLEAN-OUT ON THE "BACK" SIDE OF WALL.



WALL CLEANOUT
NO SCALE

PLUMBING ABBREVIATIONS

ABV.	ABOVE
AFF	ABOVE FINISHED FLOOR
ARCH.	ARCHITECTURAL
B.F.F.	BELOW FINISHED FLOOR
CO	CLEANOUT
CW	COLD WATER
DN.	DOWN
DWG.	DRAWING
ECO	EXTERNAL CLEANOUT
FD	FLOOR DRAIN
FT	FOOT OR FEET
FR.	FROM
GPH	GALLONS PER HOUR
GPM	GALLON PER MINUTE
HR	HOUR(S)
HW	HOT WATER
IN.	INCHES
LBS	POUNDS
MAX	MAXIMUM PER SQUARE INCH
MIN	MINIMUM
PSI	
SPECS.	SPECIFICATIONS
TP	TRAP PRIMER
TYP.	TYPICAL
VTR	VENT THROUGH ROOF
WCO	WALL CLEANOUT
WH	WALL HYDRANT
(X)	EXISTING

PLUMBING LEGEND

	SOIL OR WASTE PIPING
	VENT LINE
	COLD WATER LINE
	140 HOT WATER LINE
	HOT WATER RETURN LINE
	BALL VALVE
	BALANCING VALVE
	CHECK VALVE
O	PIPE TURNING UP (OR UP AND DOWN)
G	PIPE TURNING DOWN
WH	WALL HYDRANT
FD-1	FLOOR DRAIN (FINISHED AREA)
FS-1	FLOOR SINK, 1/2 GRATE
TP	TRAP PRIMER
	WATER HAMMER ARRESTOR
CO	FLOOR OR EXTERNAL CLEANOUT
WCO	WALL CLEANOUT

BACKFLOW PREVENTER SCHEDULE

EQUIPMENT NO.	MANUFACTURER AND MODEL NO.	SERVICE	TYPE	CONN. SIZE (IN)	FLOW DATA		DRAINAGE		HOUSING		REMARKS
					FLOW (GPM)	PRESS DROP (PSI)	REQUIRED (Y/N)	SIZE (IN)	REQUIRED (Y/N)	TYPE	
BFP-1	WATTS MODEL 009	HVAC MAKE-UP	RPZ	1"	25	5	Y	1"	N	NA	---
PRV	WATTS MODEL 223	BUILDING	PRESS. REDUCER	2"	60	10psi	N	NA	N	NA	IN STORAGE ROOM
RPZ	ZURN-WILKINS 475V	BUILDING	RPZ	2"	60	10psi	Y	1-1/2"	N	NA	IN STORAGE ROOM

NOTES:
1. INSTALL PRV ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
2. INSTALL PRV IN ROOM WHERE DOMESIC WATER ENTERS BUILDING.
3. INSTALL PRV ONLY IF WATER PRESSURE IS GREATER THAN 80PSI AT MAIN.

ELECTRIC WATER HEATER SCHEDULE

EQUIPMENT NO.	MANUFACTURER AND MODEL NO.	SERVICE	WATTAGE	VOLTAGE	EFF (%)	ENTERING WATER TEMP (°F)	LEAVING WATER TEMP (°F)	RECOVERY RATE (GPH)	STORAGE CAPACITY (GAL)	TANK DIMENSIONS		REMARKS
										HEIGHT (INCHES)	DIAMETER (INCHES)	
EWH	LOCHINVAR LTK120KK	DOMESTIC HOT WATER	4.5 KW	208/1/60	NA	50	140	147	119	63-3/4"	28"	MAIN WATER HEATER
XT	AMTROL ST-12	EXPANSION TANK	NA	NA	NA	110	110	NA	3	12"	12"	---

THERMOSTATIC MIXING VALVE SCHEDULE

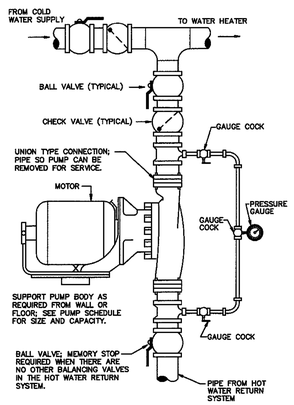
EQUIPMENT NO.	MANUFACTURER AND MODEL NO.	SERVICE	TYPE	CONN. SIZE (IN)	FLOW DATA		DRAINAGE		HOUSING		REMARKS
					FLOW (GPM)	PRESS DROP (PSI)	REQUIRED (Y/N)	SIZE (IN)	REQUIRED (Y/N)	TYPE	
TMV-1	LAWLER 802	DOMESTIC HW TO FLOOR	THERMO	1-1/4"	30	10 PSI	N	NA	N	N/A	MASTER MIXER FOR BUILDING

PUMP SCHEDULE

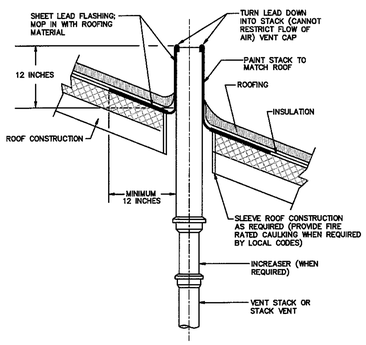
EQUIPMENT NO.	MANUFACTURER AND MODEL NO.	SERVICE	PUMP TYPE	FLOW (GPM)	HEAD (FT)	RPM	EFF (%)	VIBRATION ISOLATION			ELECTRICAL				REMARKS
								TYPE	DEFLECTION (IN)	BASE	DISCONNECT	MOTOR STARTER	MOTOR		
													HP	VOLTS/PH/HZ	
REC-1	B&G PR	140 DEG. DOM. HOT WATER	IN-LINE CENTRIF.	2 GPM	10 FT.	1725	---	NA	NA	NA	DIV 16000	NA	1/6	120/1/60	---

MEDICAL GAS/MEDICAL VACUUM EQUIPMENT SCHEDULE

EQUIPMENT NO.	DESCRIPTION	QUANTITIES								REMARKS
		O_2	VAC	AIR	N_2O	EVAC	N_2	CO_2	SUDE	
M-2	SIDE DELIVERY CABINET	---	---	1/2"	---	---	---	---	---	1 EACH: 1/2" CW
M-3	UTILITY CENTER	---	5/8"	1/2"	---	---	---	---	---	1 EACH: 1/2" CW
M-7	OUTLET STATION	1/2"	1/2"	---	3/8"	---	---	---	---	---
M-7C	CABINET MOUNTED H20 FLOWMETER	1/2"	5/8"	---	1/2"	---	---	---	---	---
M-13	AIR VALVE	---	---	1/2"	---	---	---	---	---	---
M-14C	AUTOCLAVE AND STATIM OUTLETS	---	5/8""	1/2"	---	---	---	---	---	1 EACH: 1/2" HW, 1/2" CW, DRAIN, VENT
M-16	ULTRASONIC CLEANER	---	---	---	---	---	---	---	---	1 EACH: 1/2" CW, DRAIN
M-17	PLASTER TRAP	---	---	---	---	---	---	---	---	1 EACH: DRAIN
M-25	AIR COMPRESSOR W/DRYER	---	---	---	---	---	---	---	---	---
M-26A	VACUUM SYSTEM (WET)	---	1-1/2"	---	---	---	---	---	---	1 EACH: VENT, DRAIN, 1/2" COLD WATER
M-28	VACUUM INLET	---	1/2"	---	---	---	---	---	---	---
M-30A	WATER SOLENOID W/FILTER	---	---	---	---	---	---	---	---	1 EACH: 3/4" COLD WATER
M-33	N20/02 MANIFOLD SYSTEM	1/2"	---	---	3/8"	---	---	---	---	1 EACH: VENT
MO-ALARM	AREA ALARM	1	1	1	---	---	---	---	---	PRESSURE ABNORMAL



IN-LINE RECIRC PUMP
NO SCALE



VENT THROUGH ROOF DETAIL
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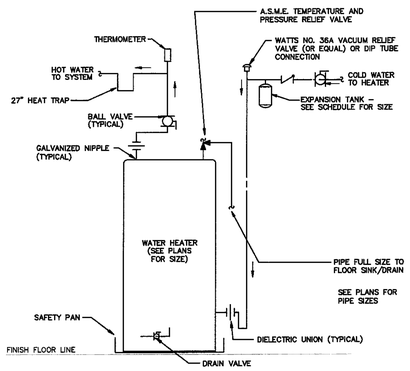

ELECTRIC WATER HEATER
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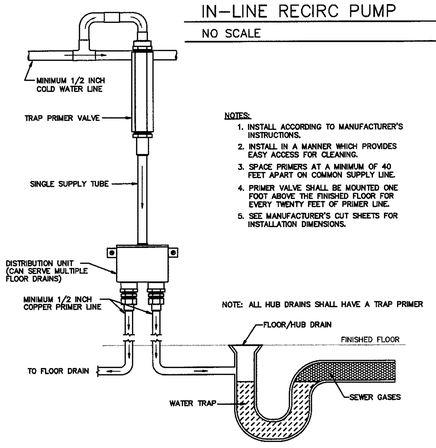
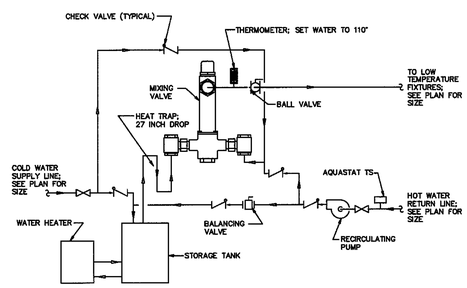


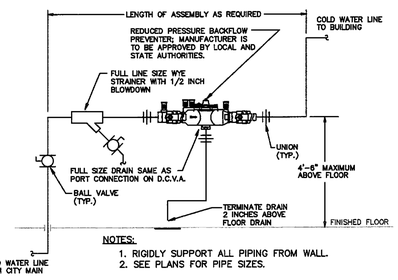
NOTES:
1. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
2. INSTALL IN A MANNER WHICH PROVIDES EASY ACCESS FOR CLEANING.
3. SPACE PRIMERS AT A MINIMUM OF 40 FEET APART ON COMMON SUPPLY LINE.
4. PRIMER VALVE SHALL BE MOUNTED ONE FOOT ABOVE THE FINISHED FLOOR FOR EVERY TWENTY FEET OF PRIMER LINE.
5. SEE MANUFACTURER'S CUT SHEETS FOR INSTALLATION DIMENSIONS.

TRAP PRIMER
NO SCALE



NOTES:
1. HEAT TRAP IS NOT REQUIRED WHERE MIXING VALVE IS INSTALLED BELOW STORAGE TANK OR WATER HEATER.
2. SET THE MIXING VALVE TO THE SYSTEM ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
3. SET THE BALANCING VALVE FOR 20% OF THE TOTAL RETURN.

TEMPERED WATER VALVE(TMV-1)
NO SCALE



NOTES:
1. RIGIDLY SUPPORT ALL PIPING FROM WALL.
2. SEE PLANS FOR PIPE SIZES.

REDUCED PRESSURE BACKFLOW PREVENTER
NO SCALE

PLUMBING FIXTURE CONNECTION SCHEDULE

EQUIPMENT NO.	DESCRIPTION	HOT WATER	COLD WATER	WASTE	VENT	REMARKS
WC-1	WATER CLOSET, ADA	---	1/2"	4"	2"	---
LV-1	LAVATORY, COUNTER MOUNTED	1/2"	1/2"	2"	2"	115 DEG HW VIA TMV-1
LV-2	LAVATORY WALL HUNG	1/2"	1/2"	2"	2"	115 DEG HW VIA TMV-1
EWC	ELECTRIC WATER COOLER	---	1/2"	2"	2"	BI-LEVEL
SK-1	SINGLE COMPARTMENT SINK	1/2"	1/2"	2"	2"	WORK AREA
SK-2	SINGLE COMPARTMENT SINK	1/2"	1/2"	2"	2"	PATIENT ROOM
SK-3	SINGLE COMPARTMENT SINK	1/2"	1/2"	2"	2"	BREAKROOM
MSB	MOP SERVICE BASIN	3/4"	3/4"	2"	2"	---
DW	DISHWASHER	3/4"	---	INDIRECT	---	---

PLUMBING EQUIPMENT CONNECTION SCHEDULE

ITEM	ITEM	MANUFACTURER (OR EQUAL)	MODEL NO.	CAPACITY	PIPE SIZE	REMARKS
FD-1	FLOOR DRAIN	ZURN	SEE SPECS	---	3"	FINISHED AREA
FD-2	FLOOR DRAIN	ZURN	SEE SPECS	---	4"	MECH ROOM DRAIN
HB	WALL HYDRANT	JR SMITH	5509QT	---	3/4"	LOCKABLE

PLUMBING FIXTURE BASIS OF DESIGN

FIXT. NO.	DESCRIPTION	MANUFACTURER & MODEL NUMBER	SEAT	FAUCET/ CONTROLS	FLUSH CONTROLS	SUPPLY-PTRAP	REMARKS
WC-1	WATER CLOSET, FLUSH TANK, ELONGATED BOWL, ADA	KOHLER K-3458	BENEKE 527SS	---	KOHLER K-7637	---	---
LV-1	LAVATORY, COUNTER MOUNTED, ADA	KOHLER K-2196-4	---	ZURN Z-81000	---	MCGUIRE 170 & 8902	TMV-2; TRAP WRAP
LV-2	LAVATORY, WALL HUNG, ADA	KOHLER K-2005	---	ZURN Z-812A4	---	MCGUIRE 170 & 8902	TMV-2; TRAP WRAP & ZURN Z-1231 ARM CARRIER
EWC	ELECTRIC WATER COOLER	ELKAY LZSTL8C	---	---	---	MCGUIRE 170 & 8902	---
SK-1	SINK, WORK, SINGLE COMPARTMENT	ELKAY LR-2219	---	ZURN Z6912-CP4	---	---	ELKAY LK-18 DRAIN
SK-2	SINK, MEDICAL, SINGLE COMPARTMENT	---	---	---	---	---	SUPPLIED BY OWNER
SK-3	SINK, BREAKROOM	ELKAY DCR252210	---	DELTA 21916	---	MCGUIRE 171 & 8912	4 FAUCET HOLES
MSB	MOP SERVICE BASIN	STERN-WILLIAMS HL-1800	---	STERN-WILLIAMS T-10-VB	---	---	INSTALL WITH STERN-WILLIAMS BP(SPLASH PANELS)

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NEW CONSTRUCTION
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6504A

ISSUE DATE 11/25/08

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REVISIONS

SHEET TITLE
PLUMBING DETAILS AND SCHEDULES

SCALE: AS NOTED

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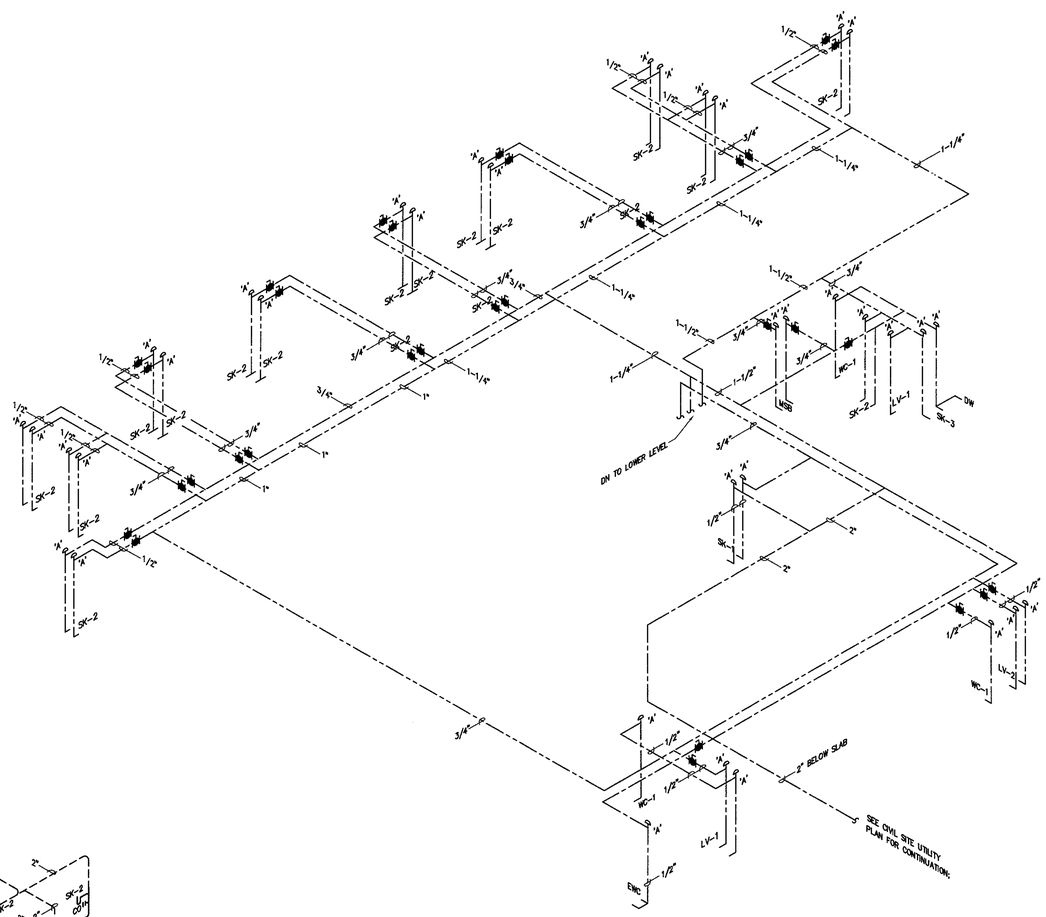
01

SHEET NO.	
PROJECT NO.	
DATE	



PRESSURE RISER DIAGRAM
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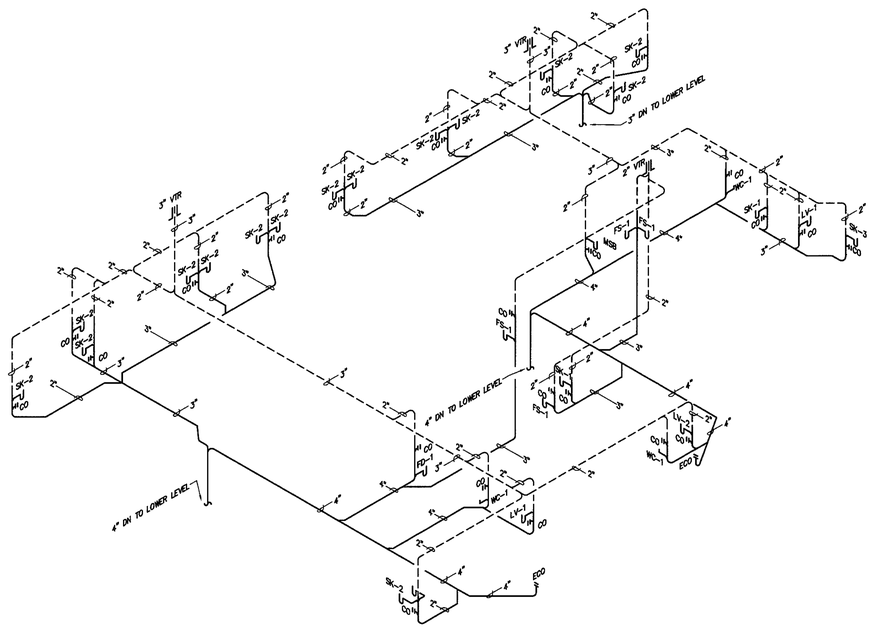

GRAVITY RISER DIAGRAM
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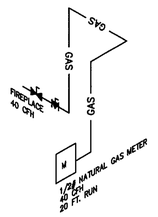

GAS RISER
NO SCALE

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TUSCALOOSA, ALABAMA

6504A

ISSUE DATE
11/25/08

CURRENT DATE
11/25/08

REVISIONS

SHEET TITLE
PLUMBING
RISER DIAGRAMS

SCALE: AS NOTED
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P0
02

SHEET NO.

PROJECT NO.

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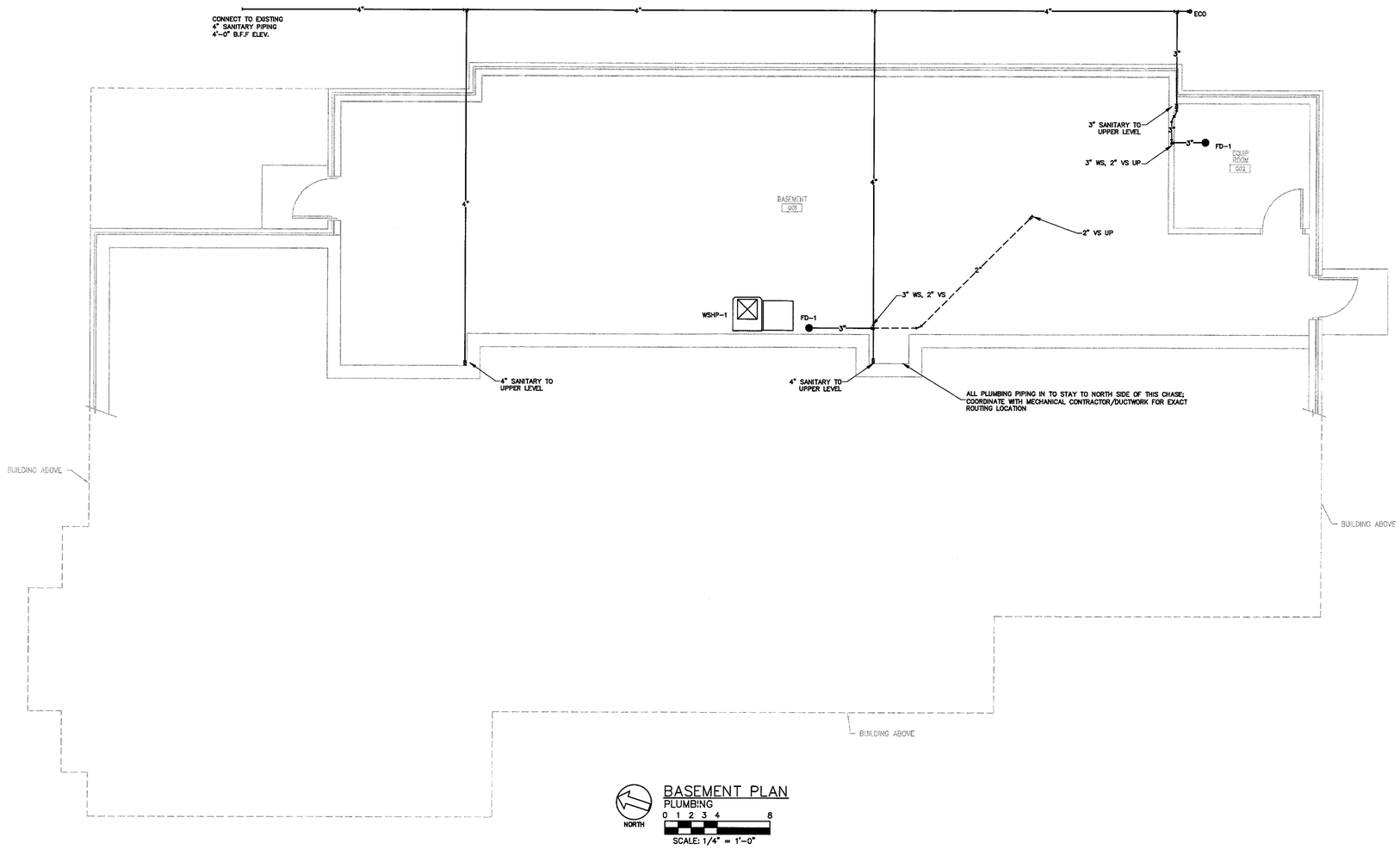

NORTH

BASEMENT PLAN
PLUMBING
0 1 2 3 4 8
SCALE: 1/4" = 1'-0"

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2604 7th Avenue South
Birmingham Al. 35233
P:205-323-3370 F:205-323-3781
Web: www.crsengr.com

Job No. 07433.00
Dwg File: 07433(09.DWG
Plot Date: 11/24/08-02:38

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NEW CONSTRUCTION
PATRICK DAVIS DENTAL OFFICE
1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

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BASEMENT PLAN
PLUMBING GRAVITY

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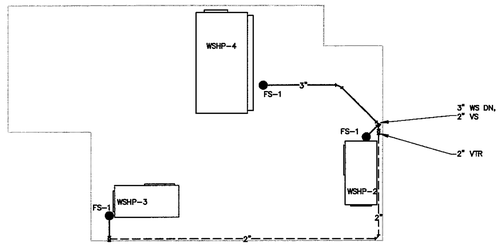
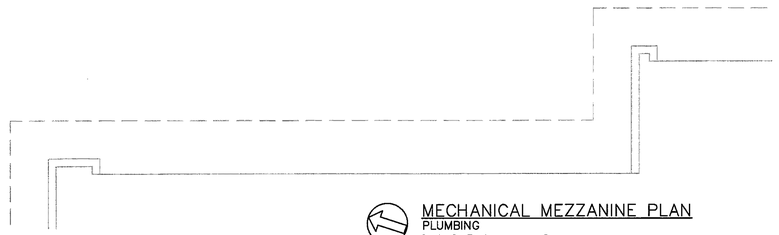
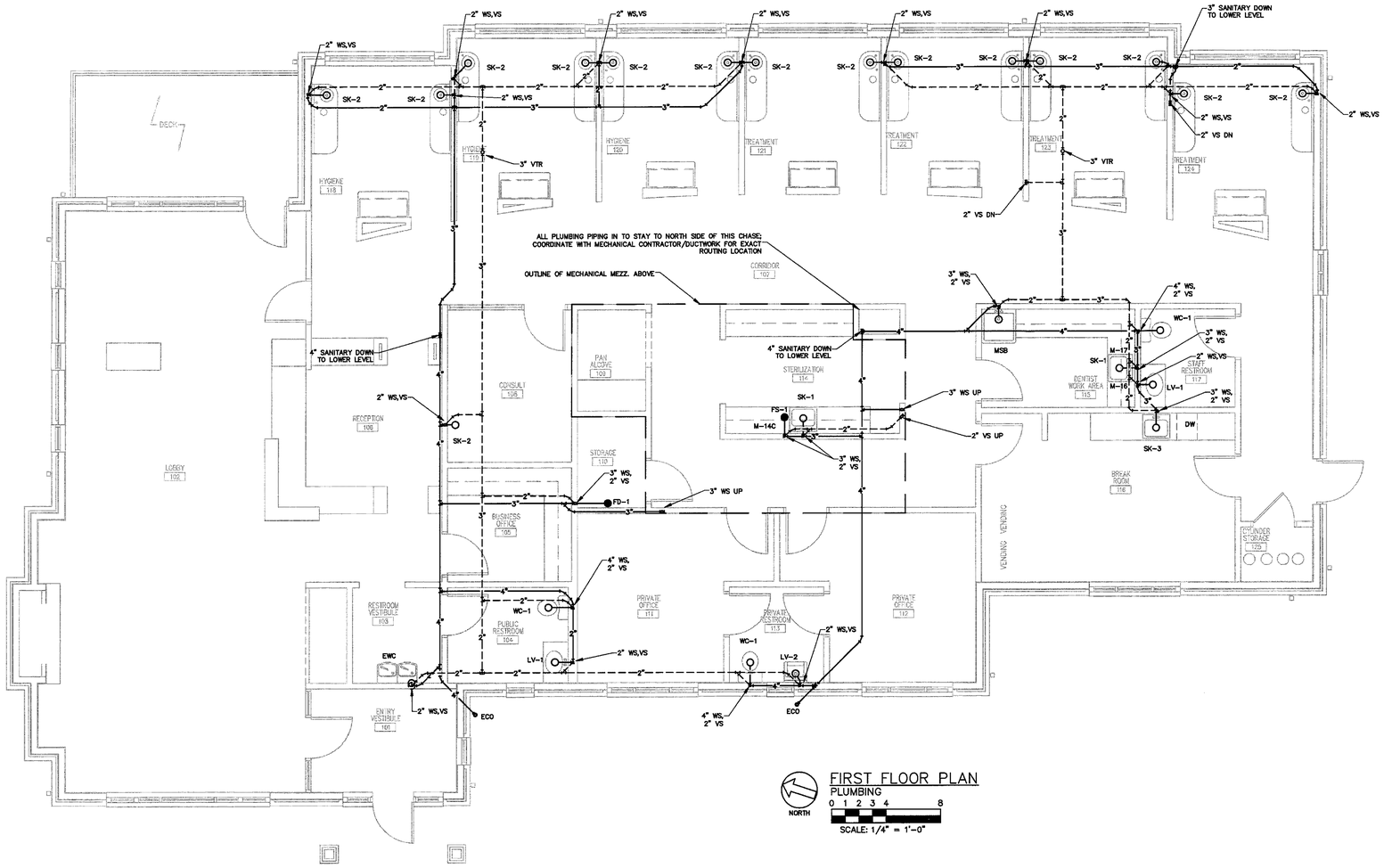
Plot Date: 11/24/08 02:49





MECHANICAL MEZZANINE PLAN
PLUMBING
NORTH
0 1 2 3 4 8
SCALE: 1/4" = 1'-0"



FIRST FLOOR PLAN
PLUMBING
NORTH
0 1 2 3 4 8
SCALE: 1/4" = 1'-0"

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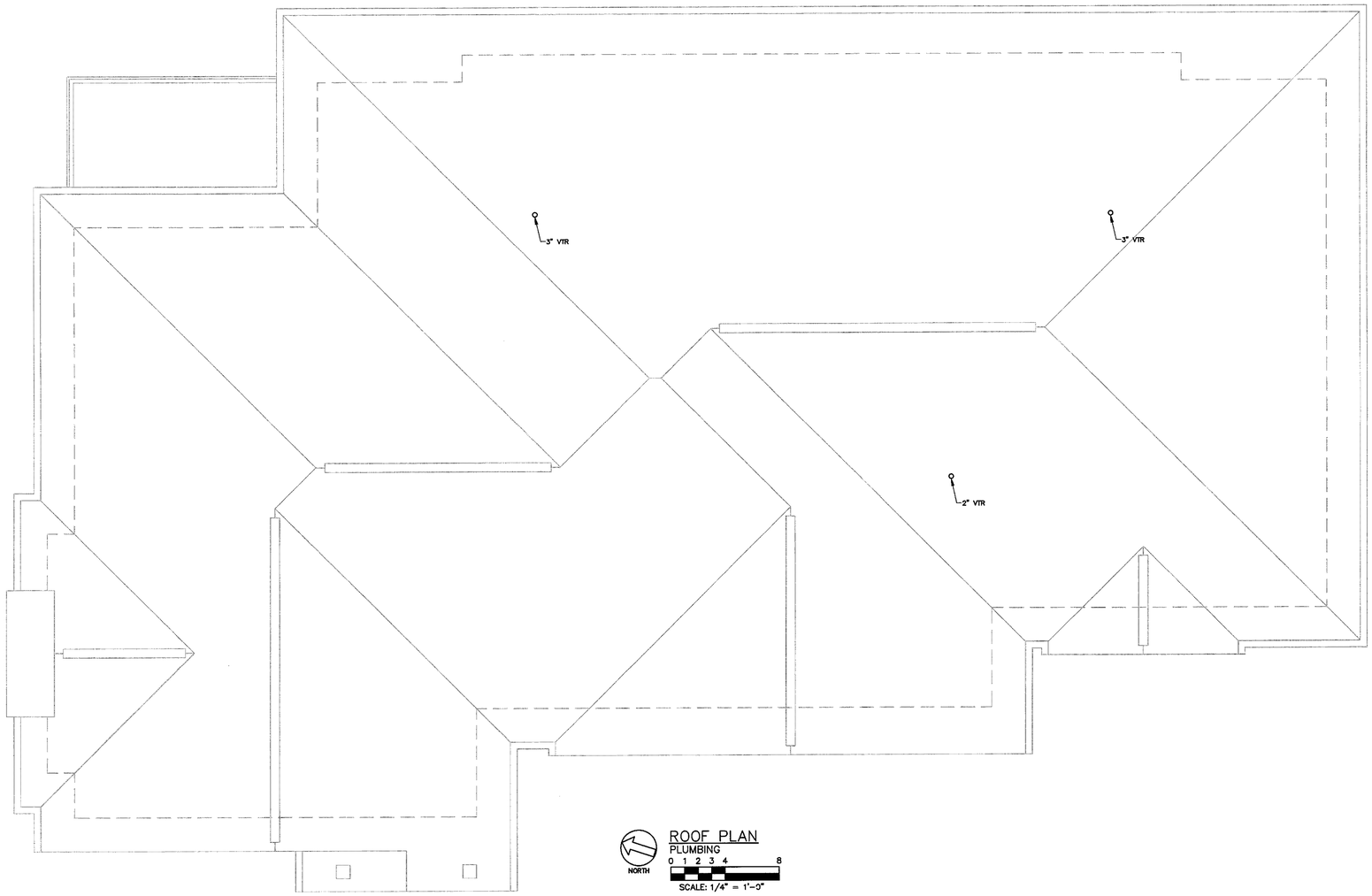
Plot Date: 1/24/08 02:35



NORTH

ROOF PLAN
PLUMBING
0 1 2 3 4 8
SCALE: 1/4" = 1'-0"

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Dwg File: 07433020.DWG
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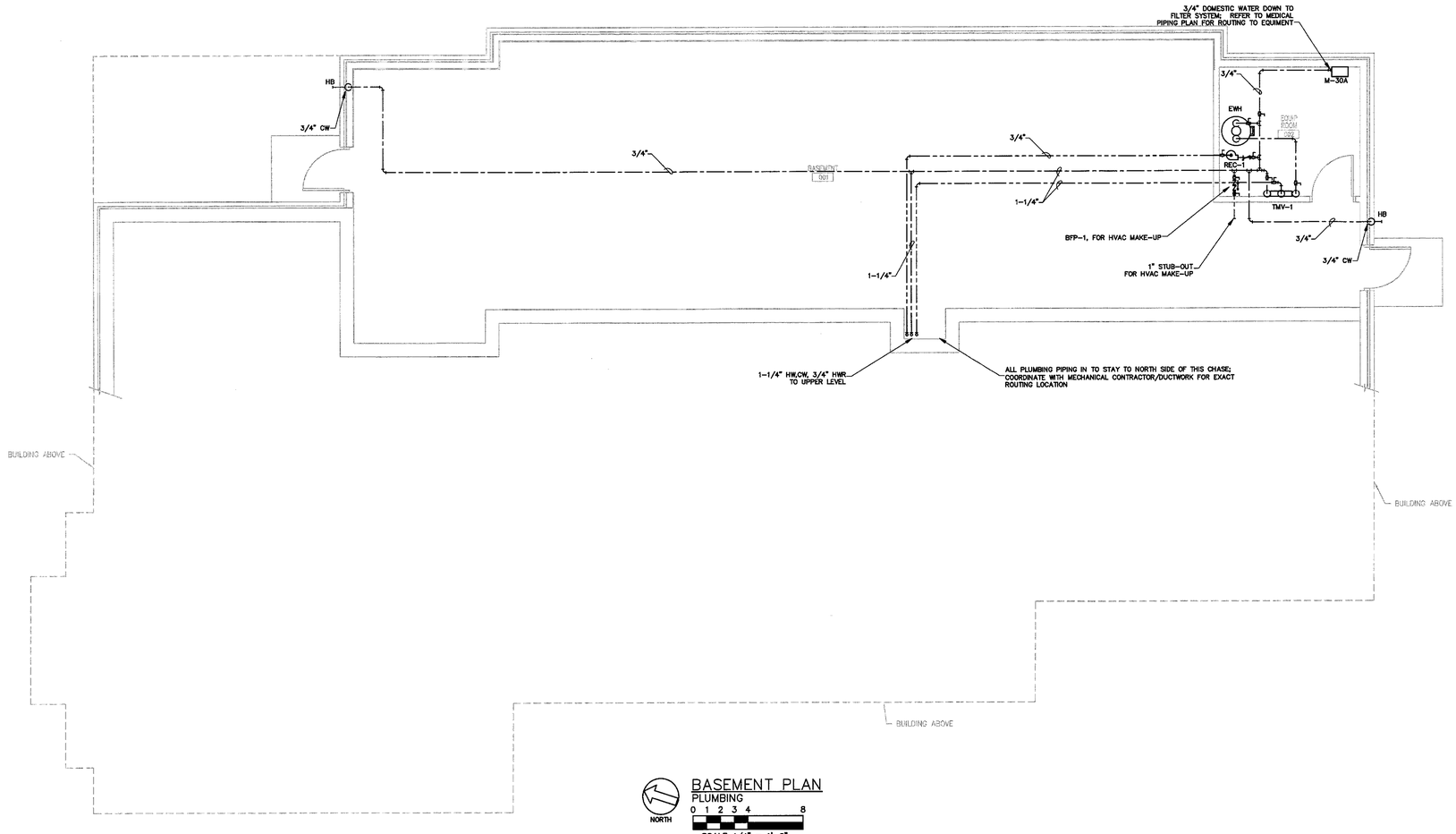

NORTH

BASEMENT PLAN
PLUMBING
0 1 2 3 4 8
SCALE: 1/4" = 1'-0"

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PLUMBING PRESSURE

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SHEET TITLE
FIRST FLOOR PLAN
PLUMBING PRESSURE

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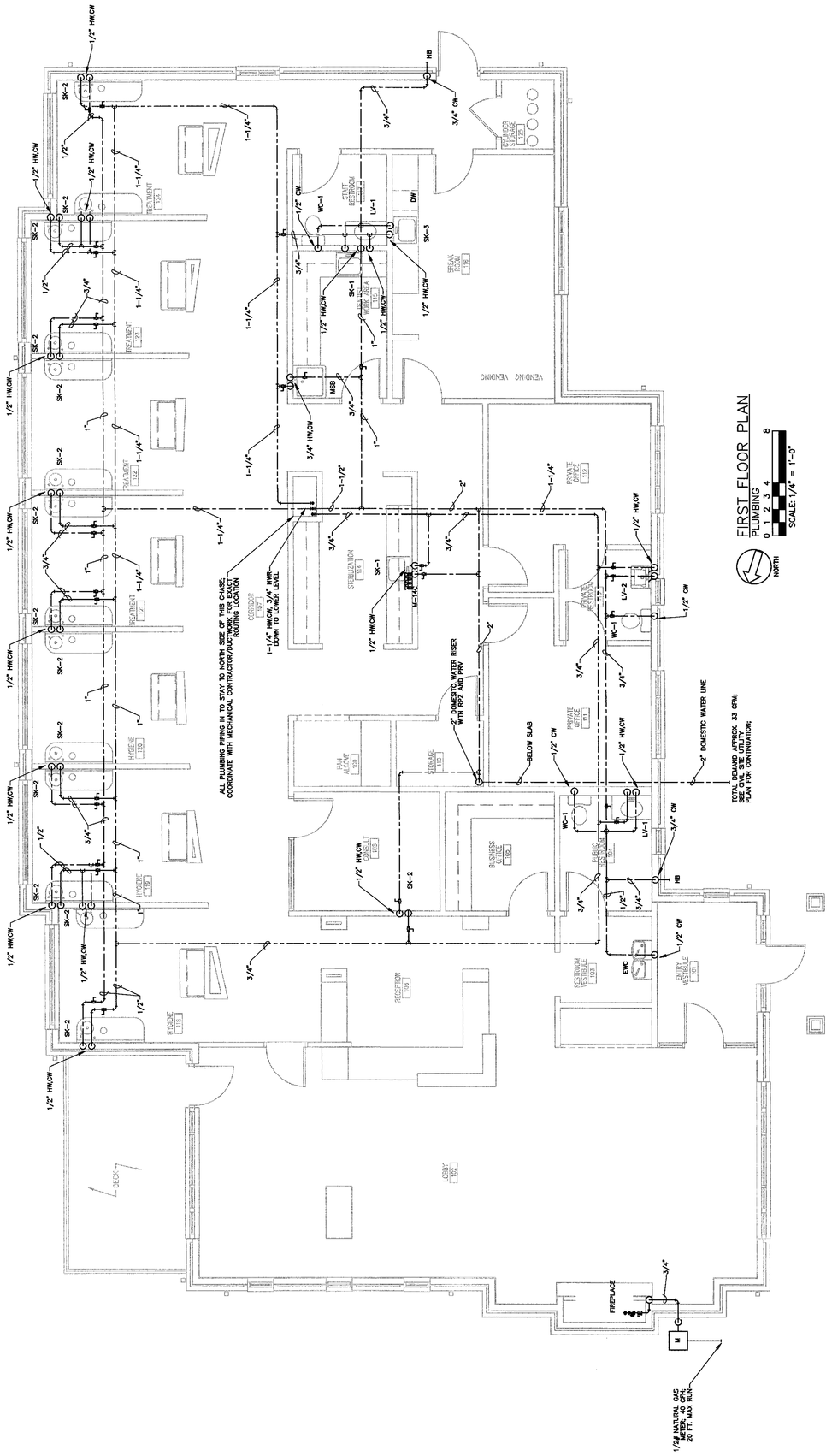

FIRST FLOOR PLAN
PLUMBING
SCALE: 1/4" = 1'-0"
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REGISTERED ARCHITECT
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BASEMENT PLAN
PLUMBING MED PIPING

SCALE: AS NOTED
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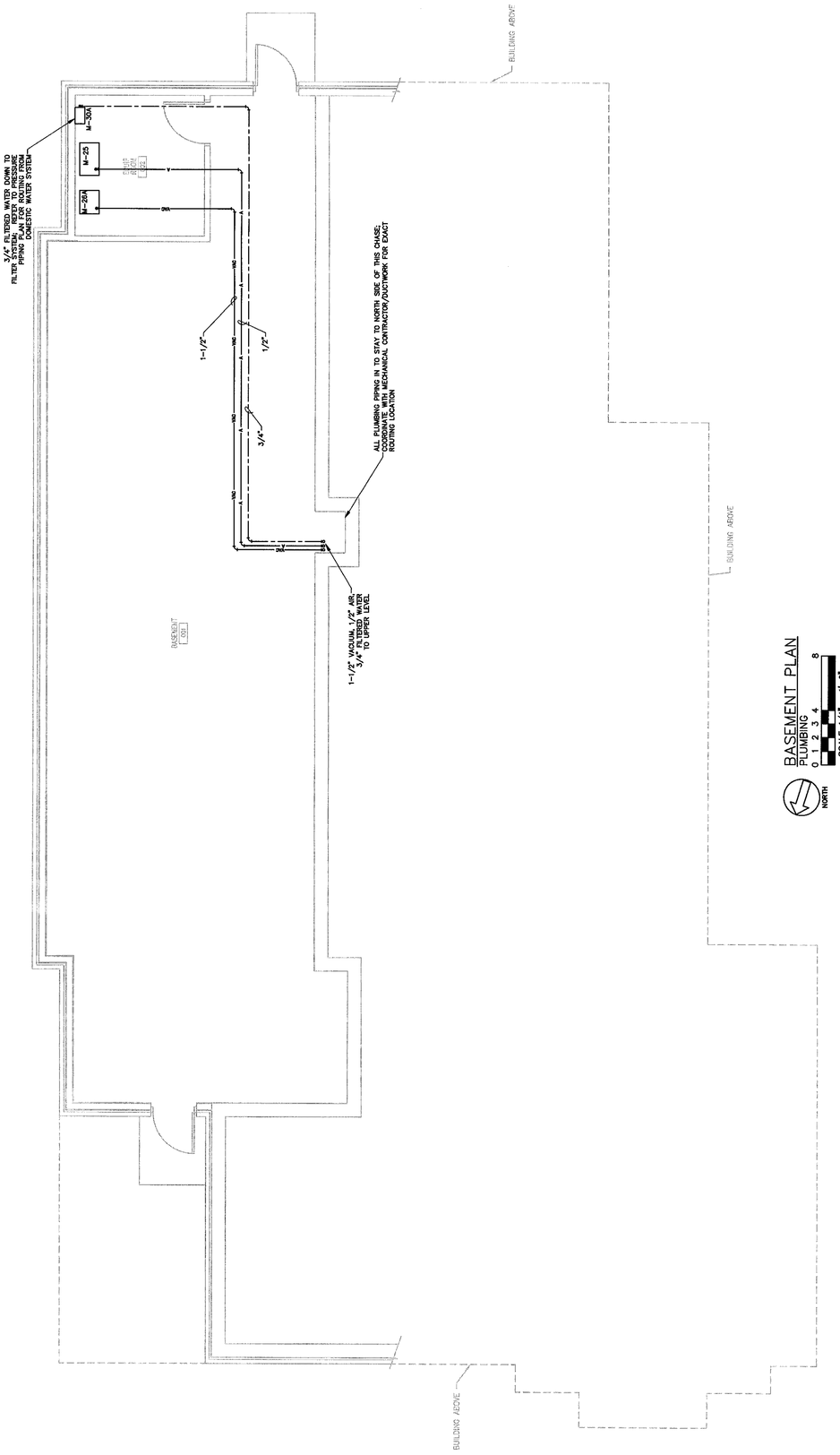
P3 01



BASEMENT PLAN
PLUMBING
0 1 2 4 8
SCALE: 1/4" = 1'-0"
NORTH

SHEET NO.
PROJECT NO.
DATE

SHEET NO.

PROJECT NO.

DATE

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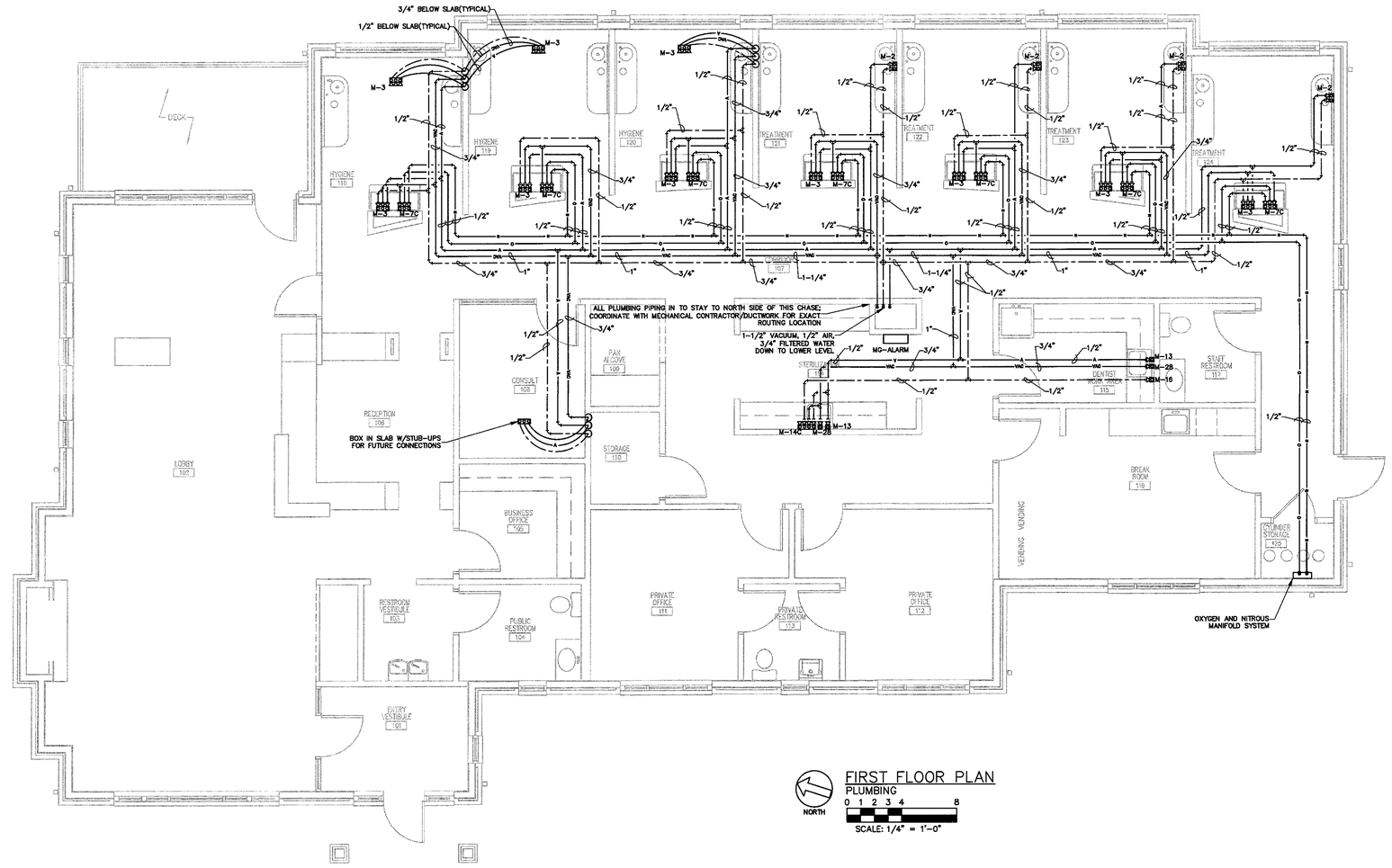

FIRST FLOOR PLAN
PLUMBING
0 1 2 3 4 8
SCALE: 1/4" = 1'-0"

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FIRST FLOOR PLAN
PLUMBING MED PIPING

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HVAC LEGEND

- 12x20 — DUCT SIZE, FIRST FIGURE IS SIDE SHOWN
- 24x12 — LOW PRESSURE, RECTANGULAR (GALVANIZED STEEL)
- 24x12 — LOW PRESSURE, RECTANGULAR (ALUMINUM STEEL)
- 20"ø — ROUND (GALVANIZED STEEL)
- 20x10 — MEDIUM PRESSURE, FLAT OVAL (GALVANIZED STEEL)
- FLEXIBLE DUCT
- R — DUCT RISE
- D — DUCT DROP
- EXISTING DUCTWORK TO REMAIN
- DUCT TRANSITION
- RECTANGULAR TO ROUND DUCT TRANSITION
- TURNING VANES
- FD — FIRE DAMPER AND SLEEVE, PROVIDE ACCESS DOOR
- SD — SMOKE DAMPER AND SLEEVE, PROVIDE ACCESS DOOR
- SD/FD — COMBINATION FIRE/SMOKE DAMPER, PROVIDE ACCESS DOOR
- MANUAL VOLUME DAMPER
- STANDARD 45° BRANCH, SUPPLY OR RETURN, NO SPLITTER
- STANDARD 45° BRANCH, SUPPLY OR RETURN, NO SPLITTER, WITH MANUAL VOLUME DAMPER
- CONICAL SPIN-IN FITTING WITH BUTTERFLY DAMPER
- R — LINEAR SLOT DIFFUSER USED FOR RETURN AIR INLET
- CD — EXISTING CEILING DIFFUSER
- RR — EXISTING RETURN REGISTER
- ER — EXISTING EXHAUST REGISTER
- GRILLE OR REGISTER, CEILING
- A — ACCESS DOOR
- D — CONDENSATE DRAIN PIPING
- ELBOW, 90° (LONG RADIUS)
- TEE
- ELBOW, TURNED DOWN
- ELBOW, TURNED UP
- GATE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- UNION
- T — WALL MOUNTED THERMOSTAT
- H — WALL MOUNTED HUMIDISTAT
- S — WALL MOUNTED TEMPERATURE SENSOR WITH ADJUSTABLE SETPOINT
- SMOKE DETECTOR (FURN. BY DIV. 16)
- TIE NEW INTO EXISTING
- UC — UNDERCUT DOOR 3/4 INCHES
- SUPPLY AIR FLOW
- RETURN OR EXHAUST AIR FLOW

ALL WORK SHOWN WITH DASHED LINES IS EXISTING. ALL WORK SHOWN WITH CONTINUOUS LINES IS NEW WORK.

NOTE: THIS LEGEND IS FOR REFERENCE ONLY. ALL SYMBOLS WHICH APPEAR WITHIN THE LEGEND MAY NOT APPLY TO THIS PROJECT.

ABBREVIATIONS

AB.CL'G	ABOVE CEILING
ABV.	ABOVE
AC	ALTERNATING CURRENT
A/C	AIR COMPRESSOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT.	ALTERNATE
AMP	AMPERE
APPROX.	APPROXIMATELY
ARCH.	ARCHITECTURAL
AVG	AVERAGE
B	BOILER
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHWP	CHILLED WATER PUMP
CLG	CEILING
CT	COOLING TOWER
CWP	CONDENSER WATER PUMP
DEFL	DEFLECTION
DET	DETAIL
DIA	DIAMETER
ø	DIAMETER
EDB	ENTERING DRY BULB
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST.	EXISTING
°F	DEGREES FAHRENHEIT
GPM	GALLONS PER MINUTE
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FOOT OR FEET
HD.	HEAD
HP	HORSE POWER
HR	HOUR(S)
HT.	HEIGHT
HTR	HEATER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
HZ	FREQUENCY (HERTZ)
ID	INSIDE DIAMETER
IN.	INCHES
KW	KILOWATT
KWH	KILOWATT HOUR
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN	MINIMUM
NO.	NUMBER
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
O.D.	OUTSIDE DIAMETER
OA	OUTSIDE AIR
ORIG.	ORIGINAL
PH.	PHASE
PIU	POWERED INDUCTION UNIT
PRESS	PRESSURE
RTN	RETURN AIR
RTU	ROOFTOP AIR HANDLING UNIT
SDC	STAND ALONE DIGITAL CONTROLLER
SENS.	SENSIBLE
SQ.	SQUARE
SPLY	SUPPLY
S/S	SINGLE SPEED MOTOR
TEMP	TEMPERATURE
VAV	VARIABLE AIR VOLUME
W	WATT
W/	WITH
W.P.D.	WATER PRESSURE DROP

WATER SOURCE HEAT PUMP SCHEDULE

EQUIPMENT NO.	MANUFACTURER/ MODEL NO.	SERVICE	NOMINAL COOLING TONNAGE	SUPPLY (CFM) SUPPLY/ RETURN	OUTSIDE AIR (CFM)	FAN DATA FLA	FAN DATA HP	FAN DATA E.S.P.	LOOP HX GPM	LOOP HX WPD (FT.)	COOLING TOTAL (MBH)	COOLING SENS. (MBH)	COOLING EWT (°F)	COOLING EDB (°F)	COOLING EWB (°F)	HEATING EWT (°F)	HEATING TOTAL (MBH)	ELECTRICAL DISCONNECT	ELECTRICAL MOTOR STARTER	ELECTRICAL UNIT MCA	ELECTRICAL UNIT MOCP	VOLTS/PH./HZ.	MIN. EER	CONFIGURATION	ACCESSORIES
WSHP-1	TRANE GEV042	HYGIENE	3.5	1400	125	3.6	1/2	1.0	9.7	13.1	41.1	32.7	77	74	63	32	29.9	BY DIV. 16	BY DIV. 15	17.9	25	208/3/60	12.75	VERTICAL	1,2,3,4,5,6
WSHP-2	TRANE GEH042	OFFICE	3.5	1400	250	3.6	1/2	0.8	9.7	13.1	41.1	32.7	77	76	64	32	29.9	BY DIV. 16	BY DIV. 15	17.9	25	208/3/60	12.75	HORIZONTAL	1,2,3,4,5,6
WSHP-3	TRANE GEH036	LOBBY	3	1200	125	3.6	1/2	0.8	9.2	10.1	39.8	29.8	77	74	63	32	27.3	BY DIV. 16	BY DIV. 15	16.6	25	208/3/60	13.7	HORIZONTAL	1,2,3,4,5,6
WSHP-4	TRANE GEH072	ADMIN	6	2400	280	3.5	1	1.0	18.0	16.7	77.4	58.8	77	75	63	32	51.9	BY DIV. 16	BY DIV. 15	26.9	35	208/3/60	15.8	HORIZONTAL	1,2,3,4,5,6,7

ACCESSORIES
1. 5 YEAR COMPRESSOR WARRANTY.
2. HOSE KIT WITH CIRCUIT SETTER.
3. NEOPRENE ISOLATORS
4. 2" DEEP AUXILLIARY DRAIN PAN
5. FLEXIBLE CONNECTORS
6. MOISTURE SENSOR IN AUXILLIARY DRAIN PAN
7. SMOKE DETECTOR IN SUPPLY AND RETURN DUCT

PUMP SCHEDULE

EQUIPMENT NO.	MANUFACTURER/ MODEL NO.	SERVICE	TYPE	GPM	HEAD (FT.)	RPM	EFF. (%)	VIBRATION ISOLATION TYPE	VIBRATION ISOLATION DEFL. (IN.)	VIBRATION ISOLATION BASE	ELECTRICAL DISCONNECT	ELECTRICAL MOTOR STARTER	ELECTRICAL MOTOR H.P.	ELECTRICAL MOTOR VOLTS/PH./HZ.	REMARKS
LP-1	BELL AND GOSSETT	LOOP WATER	BELL & GOSSETT SERIES 60 1 1/2X1 1/2X7	46.6	50	1750	53	3	0.75	–	BY DIV. 16	LOCAL, BY DIV. 15	1.5	208/3/60	1,2

NOTES:
1. PROVIDE FLEXIBLE CONNECTOR AT PUMP INLET AND OUTLET.
2. PUMP SHALL BE SUPPORTED BY TRAPEZE HANGER (NOT BY PIPING).

EXHAUST FAN SCHEDULE

EQUIPMENT NO.	MANUFACTURER/ MODEL NO.	SERVICE	CFM	S.P. (IN. W.C.)	RPM	MAX. SONES	ELECTRICAL DISCONNECT	ELECTRICAL MOTOR STARTER	ELECTRICAL MOTOR H.P.	ELECTRICAL MOTOR VOLTS/PH./HZ.	INTERLOCK	LOCATION	TYPE	DRIVE	REMARKS
EF-1	GREENHECK SQ	EQUIPMENT ROOM	100	0.25	1550	4.0	FACTORY	LOCAL, BY DIV. 15	1/30	120/1/60	T'STAT	EXPOSED	IN-LINE	DIRECT	1,2,3,4,5
EF-2	GREENHECK SQ	CYLINDER STORAGE	50	0.25	1550	4.0	FACTORY	LOCAL, BY DIV. 15	1/30	120/1/60	CONTINUOUS	EXPOSED	IN-LINE	DIRECT	1,2,3,4,5
EF-3	GREENHECK SP	TOILET	125	0.25	1050	2.5	FACTORY	LOCAL, BY DIV. 15	129 WATTS	120/1/60	LIGHTS	CEILING	CEILING	DIRECT	1,2,3,4,5
EF-4	GREENHECK SP	WORK AREA	125	0.25	1050	2.5	FACTORY	LOCAL, BY DIV. 15	129 WATTS	120/1/60	SWITCH	CEILING	CEILING	DIRECT	1,2,3,4,5
EF-5	GREENHECK SP	TOILET	125	0.25	1050	2.5	FACTORY	LOCAL, BY DIV. 15	129 WATTS	120/1/60	LIGHTS	CEILING	CEILING	DIRECT	1,2,3,4,5
EF-6	GREENHECK SP	TOILET	125	0.25	1050	2.5	FACTORY	LOCAL, BY DIV. 15	129 WATTS	120/1/60	LIGHTS	CEILING	CEILING	DIRECT	1,2,3,4,5
VF-1	PENN DAE 10	ATTIC	300	0.15	1500	2.5	BY DIV. 16	LOCAL, BY DIV. 15	1/30	120/1/60	T'STAT	ROOF	AXIAL	DIRECT	5,6,7
VF-2	PENN DAE 10	ATTIC	300	0.15	1500	2.5	BY DIV. 16	LOCAL, BY DIV. 15	1/30	120/1/60	T'STAT	ROOF	AXIAL	DIRECT	5,6,7

ACCESSORIES
1. SOLID STATE SPEED CONTROL
2. RUBBER IN-SHEAR ISOLATORS
3. DISCONNECT SWITCH
4. FLEX CONNECTORS
5. BACKDRAFT DAMPER
6. ROOF CURB
7. ALUMINUM BIRDSCREEN

EXPANSION TANK SCHEDULE

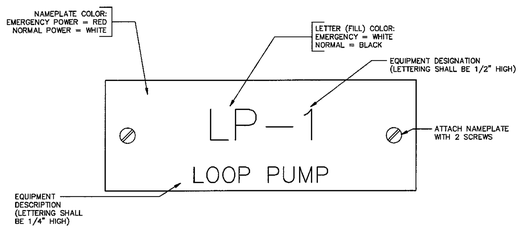
EQUIPMENT NO.	MANUFACTURER/ MODEL NO.	SERVICE	ORIENTATION	TYPE	SYSTEM VOLUME (GALLONS)	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	PRE-CHARGE PRESSURE (PSI)	REMARKS
ET-1	BELL AND GOSSETT D-15V	CONDENSER LOOP	VERTICAL	DIAPHRAM	464	4.67	2.23	12	1,2

REMARKS
1. PROVIDE CENTRIFUGAL AIR SEPARATOR (BELL AND GOSSETT MODEL R2N OR APPROVED EQUAL) WITH STRAINER.
2. DOMESTIC WATER CONNECTION SHALL BE DONE BY LISCENCED PLUMBER.

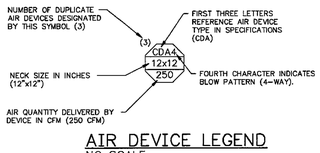
ELECTRIC HEATER SCHEDULE

EQUIPMENT NO.	EAT (°F)	ELECTRIC HEAT KW	ELECTRIC HEAT NO. STAGES	ELECTRIC HEAT VOLTS/PH/HZ	FAN DATA TYPE	FAN DATA CFM	FAN DATA ELECTRICAL DISCONNECT	FAN DATA ELECTRICAL MOTOR STARTER	FAN DATA ELECTRICAL H.P.	ACCESSORIES
EUH-1	60	5	1	208/3	PROPELLER	700	BY DIV. 15	BUILT-IN	1/25	1,2,3
EUH-2	60	5	1	208/3	PROPELLER	700	BY DIV. 15	BUILT-IN	1/25	1,2,3
EWH-1	60	2	1	208/1	PROPELLER	245	BY DIV. 15	BUILT-IN	–	2,3,4

ACCESSORIES
1. WALL/CEILING HANGER BRACKET
2. INTEGRAL THERMOSTAT
3. INTEGRAL DISCONNECT
4. WALL BOX



MECHANICAL EQUIPMENT NAMEPLATE DETAIL
NO SCALE



AIR DEVICE LEGEND
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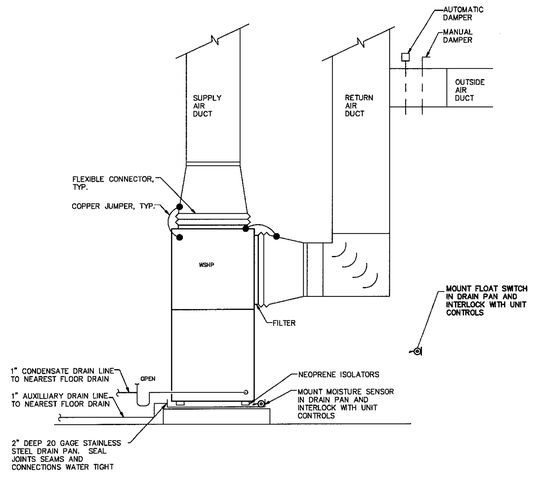
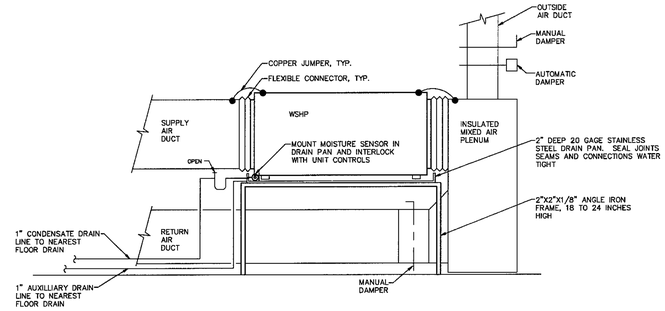


TYPICAL VERTICALAL WATER SOURCE HEAT PUMP DETAIL
NO SCALE



TYPICAL HORIZONTAL WATER SOURCE HEAT PUMP DETAIL
NO SCALE

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Job No. 07433.00
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Plot Date: 11/24/08-04:11

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NEW CONSTRUCTION
PATRICK DAVIS DENTAL OFFICE
1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE
11/25/08

CURRENT DATE
11/25/08

REVISIONS

SHEET TITLE
HVAC LEGENDS, SCHEDULES AND DETAILS

SCALE: AS NOTED

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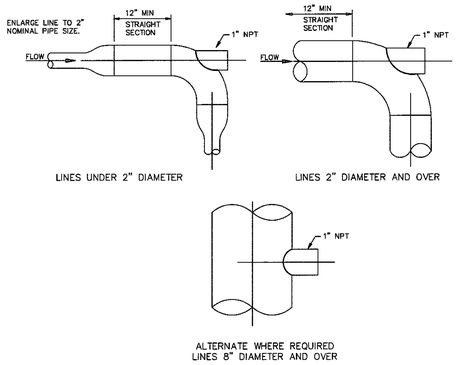
01

SHEET NO.
PROJECT NO.
DATE



THERMOWELL DETAIL
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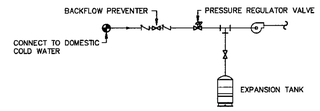

EXPANSION TANK FILL AND MAKE-UP LINE DETAIL
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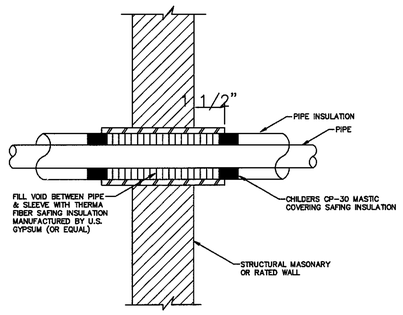
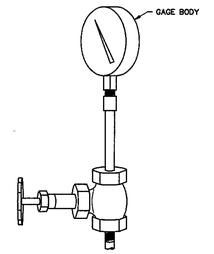
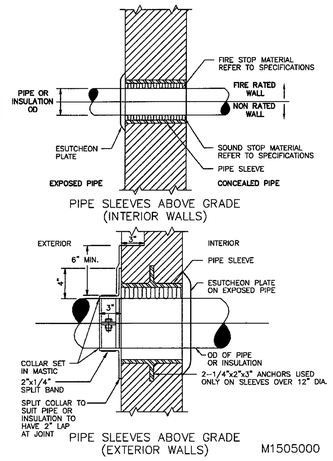


PIPE SLEEVE THROUGH WALL DETAIL (TYPE 3)
NO SCALE



PRESSURE GAUGE ASSEMBLY DETAIL
NO SCALE

PIPE OR INSULATION OD	MINIMUM SLEEVE SIZE (NPS)
UP TO 1"	3"
1" THRU 2"	5"
2" THRU 3"	6"
3" THRU 5 1/2"	8"
6" THRU 8"	10"
8 5/8" THRU 10"	12"
10 3/4" THRU 11"	14"
12 3/4" THRU 13"	16"
14" THRU 16"	20"
16" THRU 20"	24"



SLEEVE DETAILS
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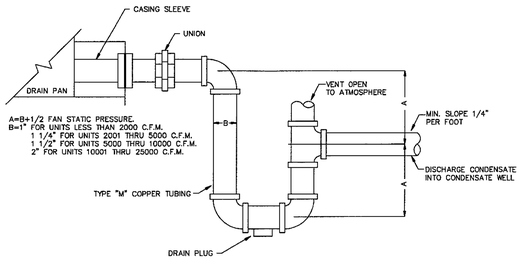
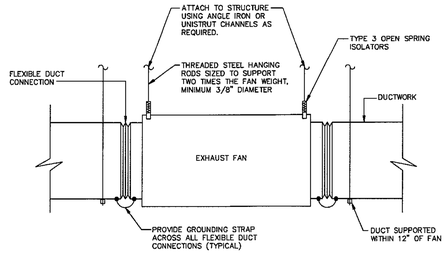


AIR CONDITIONING UNIT DRAIN TRAP DETAIL
NO SCALE



INLINE EXHAUST FAN DETAIL
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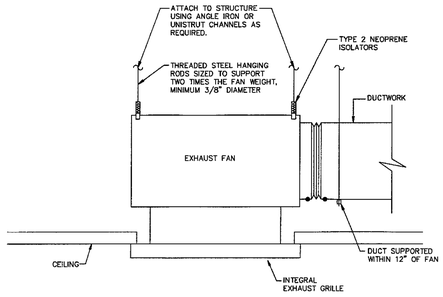

CEILING EXHAUST FAN DETAIL
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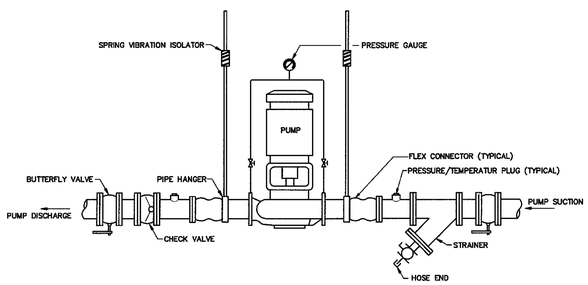
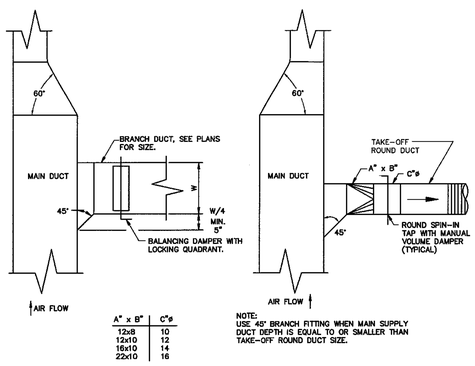


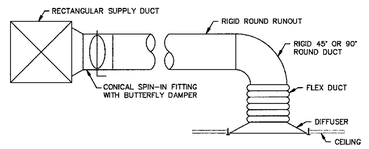
INLINE PUMP DETAIL
NO SCALE



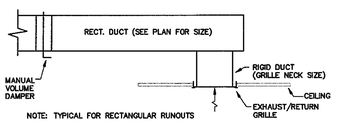
A" x B"	C"ø
12x8	10
12x10	12
16x10	14
22x10	16

NOTE:
USE 45° BRANCH FITTING WHEN MAIN SUPPLY DUCT DEPTH IS EQUAL TO OR SMALLER THAN TAKE-OFF ROUND DUCT SIZE.

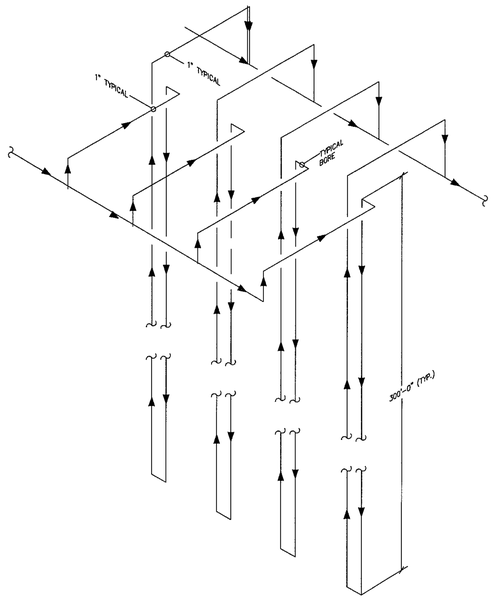
TYPICAL DUCT TAKEOFF DETAIL
NO SCALE



TYPICAL DIFFUSER RUN-OUT DETAIL
NO SCALE



TYPICAL RETURN AND EXHAUST RUN-OUT DETAIL
NO SCALE



BOREFIELD SCHEMATIC
NO SCALE

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NEW CONSTRUCTION
PATRICK DAVIS DENTAL OFFICE
1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE 11/25/08
CURRENT DATE 11/25/08
REVISIONS

SHEET TITLE
HVAC DETAILS

SCALE: AS NOTED
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SHEET NO.

PROJECT NO.

DATE

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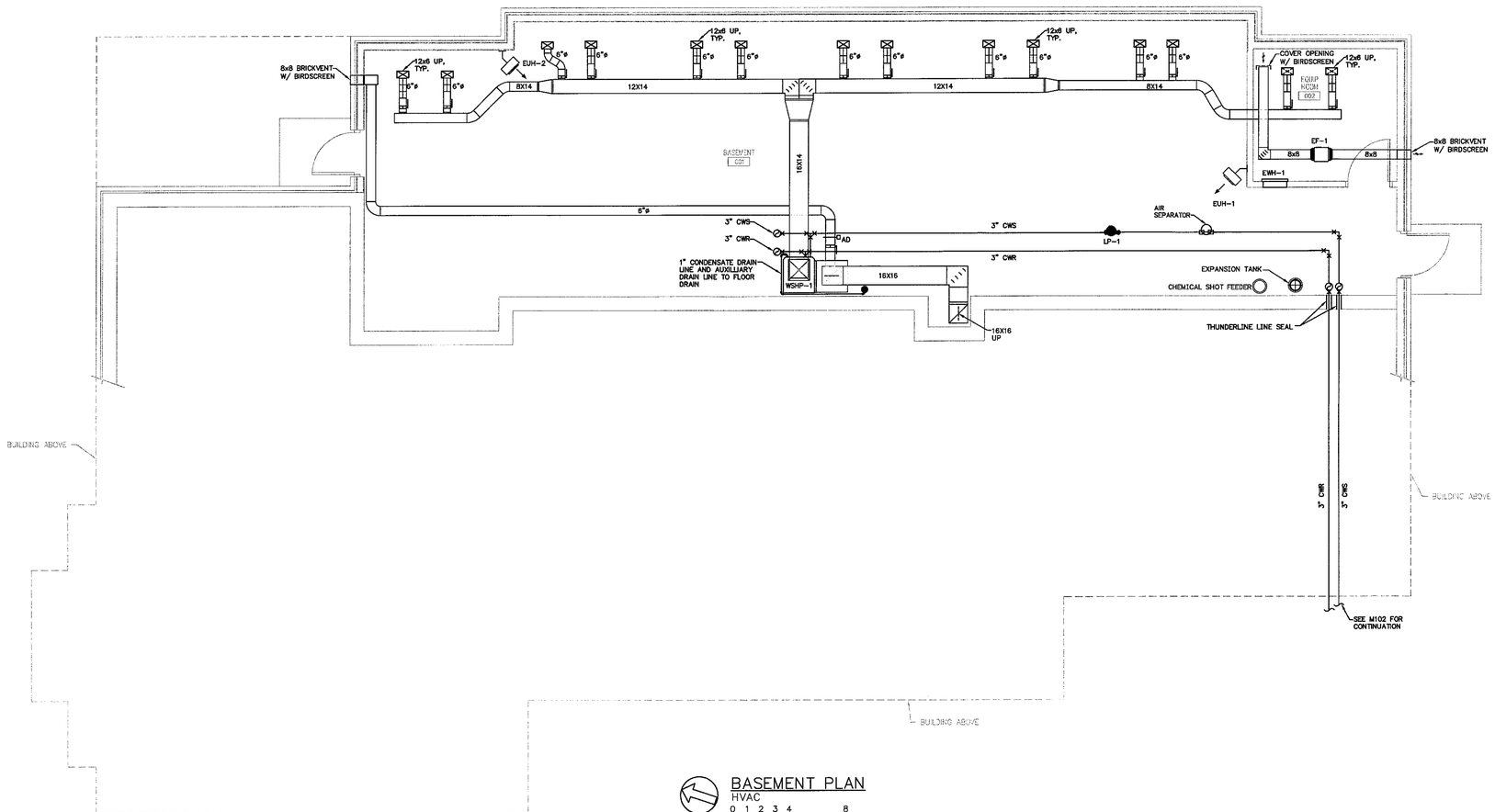
Job No. 07433.00
Dwg File: 07433M03.DWG
Plot Date: 11/24/08-04:14



BASEMENT PLAN
HVAC

NORTH

0 1 2 3 4 8

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

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11/25/08

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SHEET TITLE
BASEMENT PLAN–HVAC

SCALE: AS NOTED

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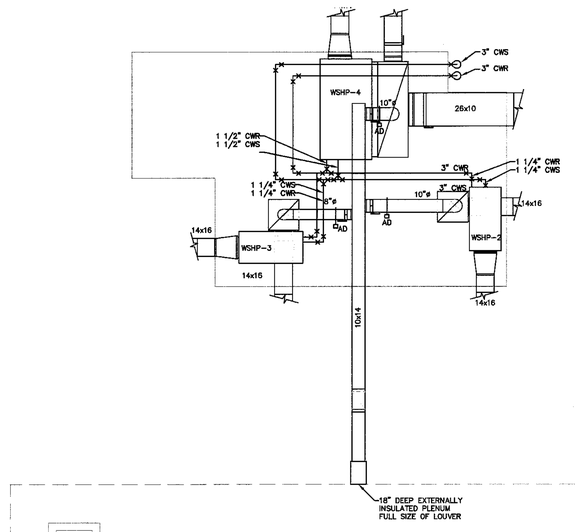


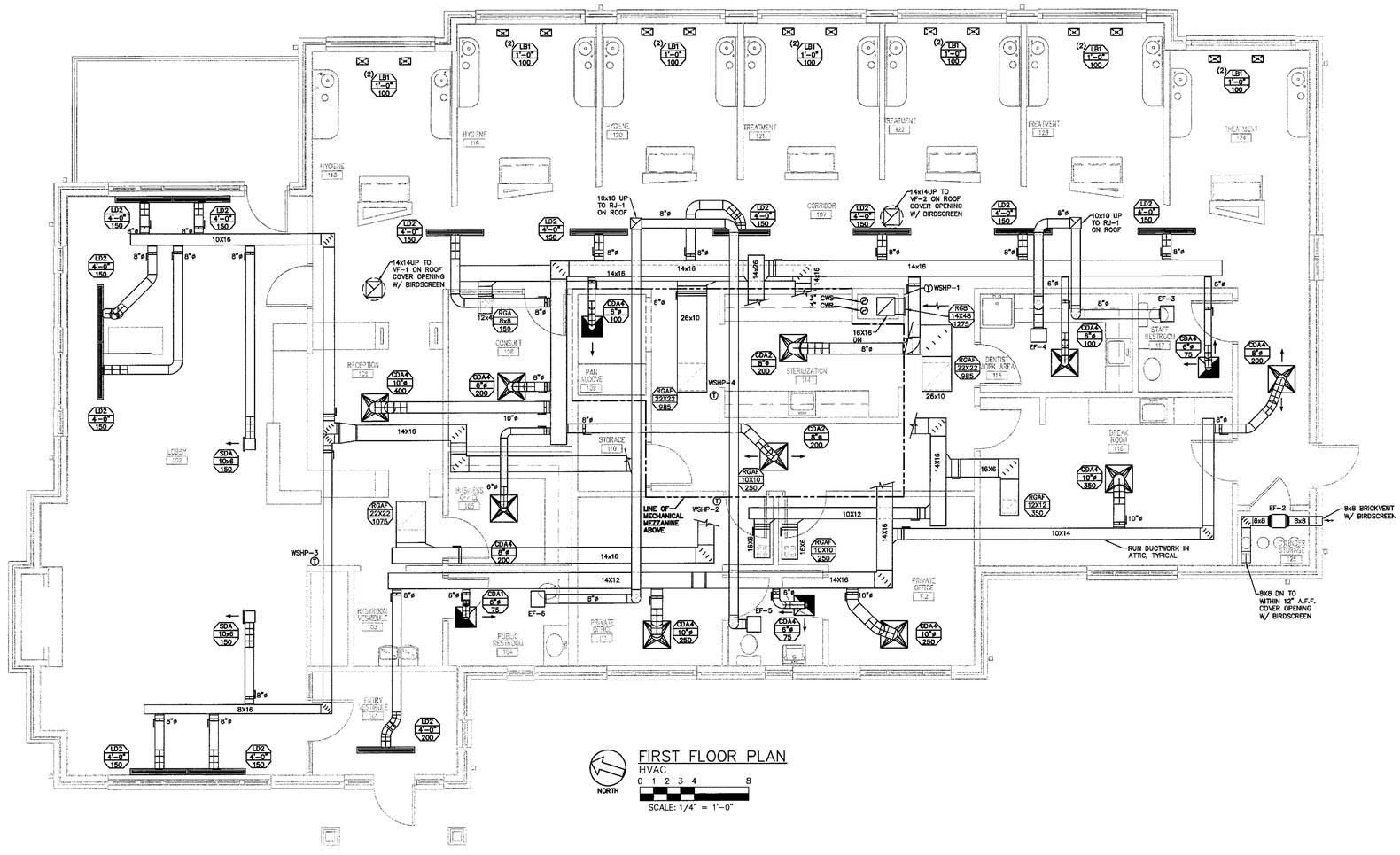
MECHANICAL MEZZANINE FLOOR PLAN – HVAC

HVAC

NORTH

0 1 2 3 4 8

SCALE: 1/4" = 1'–0"



FIRST FLOOR PLAN

HVAC

NORTH

0 1 2 3 4 8

SCALE: 1/4" = 1'–0"

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SHEET TITLE
FIRST FLOOR PLAN– HVAC
MEZZANINE PLAN– HVAC

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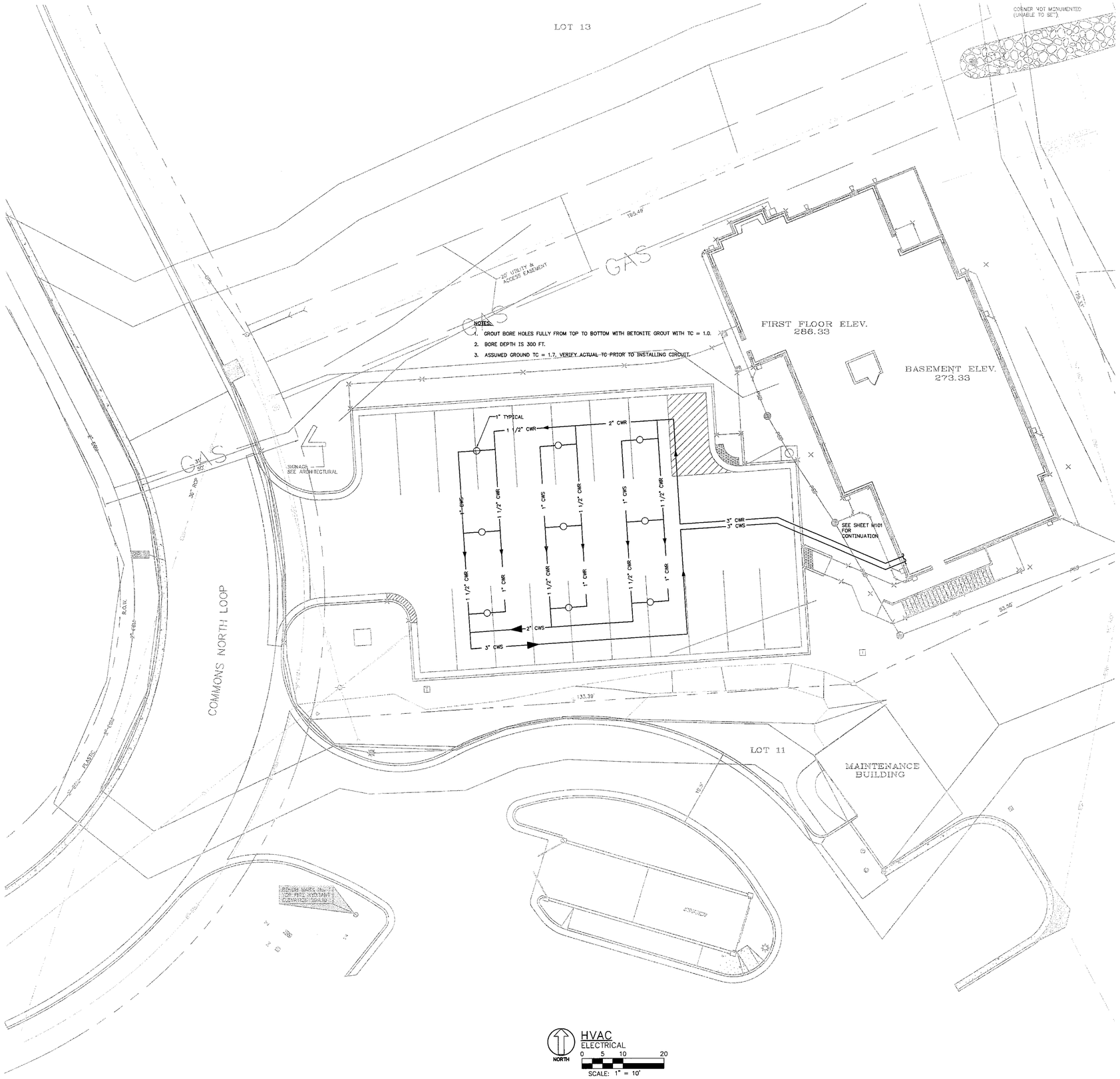

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Job No. 07433.00
Dwg File: 07433M02.DWG
Plot Date: 11/24/08-02:49

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SHEET TITLE
SITE PLAN– HVAC

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RISER DIAGRAM SYMBOLS

- STATIONARY CIRCUIT BREAKER
- STATIONARY SWITCH
- STATIONARY FUSE
- GROUND
- AUTOMATIC TRANSFER SWITCH
- ENGINE–GENERATOR
- ENCLOSURE
- PANELBOARD
- DRAW OUT CIRCUIT BREAKER WITH INTERGRAL FUSE
- STATIONARY CIRCUIT BREAKER WITH INTERGRAL FUSE
- AUTOMATIC TRANSFER SWITCH WITH BYPASS–ISOLATION
- DRAW OUT FUSE
- PAD MOUNTED TRANSFORMER
- JUNCTION BOX
- KILOWATT–HOUR/DEMAND METER
- LIGHTNING ARRESTOR
- MANHOLE
- PULL BOX
- POWER FACTOR METER
- ELECTRONIC POWER METER.
- VOLTAGE SENSING RELAY
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR
- LOAD BREAK CONNECTION
- CABLE
- BUSSING OR BUSWAY
- NO CONNECTION
- CONNECTED

TELE/DATA/CATV

- ROUGH–IN ONLY, 2GANG W/ SINGLE GANG PLASTER RING. 1" CONDUIT TO ABOVE CEILING
- JB ROUGH–IN ONLY, 2GANG W/ SINGLE GANG PLASTER RING. 1" CONDUIT TO ABOVE CEILING
- TD ROUGH–IN ONLY, 2GANG W/ SINGLE GANG PLASTER RING. 1" CONDUIT TO ABOVE CEILING
- TBB BACKBOARD, 4'X8'X3/4" PLYWOOD WITH 2 COATS OF FIRE RETARDENT GRAY PAINT.
- T 1" CONDUIT WITH NYLON FISH CORD AND BUSHING TO T/D ROOM, UON.
- T 1" CONDUIT WITH NYLON FISH CORD AND BUSHINGS TO APARTMENT JUNCTION BOX, UON
  JUNCTION BOX. MIN SIZE 24"x24"x4" MOUNTED FLUSH IN WALL PAINT TO MATCH
- FA FIRE ALARM TELEPHONE JACKS 2(RJ31X)
- DOUBLE GANG BOX WITH SINGLE GANG MUDPLATE CATV OUTLET WITH CONDUIT AS NOTED (3/4"C. MIN.) INTO ATTIC SPACE.

DISTRIBUTION PANELS

- LIGHTING/FEEDER PANELBOARD. SEE SPECIFICATIONS AND SCHEDULES.
- RECEPTACLE PANELBOARD. SEE SPECIFICATIONS AND SCHEDULES.
- LIGHTING CONTROL PANEL. SEE SPECIFICATIONS AND SCHEDULES.
- FEEDER PANELBOARD. SEE SPECIFICATIONS AND SCHEDULES.
  PANELS TO BE FULLY RATED. SERIES RATING IS NOT ALLOWED.

FLOOR OUTLET

- FLOOR BOX : WIREMOLD : 881
  COVER : 881CTC (XXX) : (XXX) = COLOR SELECTED BY ARCHITECT.

RECEPTACLES

WALL MOUNTED

- DUPLEX RECEPTACLE – NEMA 5–20R
- DUPLEX RECEPTACLE – NEMA 5–20R, DEDICATED SERVICE/CIRCUIT
- GFI GROUND FAULT RECEPTACLE – NEMA 5–20R GF
- RECEPTACLE – MTD ABOVE COUNTER – NEMA 5–20R
- IG ISOLATED GROUND RECEPTACLE – NEMA 5–20R IG
- SIMPLEX RECEPTACLE – NEMA 5–20R
- SPLIT WIRED RECEPTACLE – NEMA 5–20R
- WP WEATHER PROOF RECEPTACLE – NEMA 5–20R GF W/ WET LOCATION COVER
- QUADRUPLEX RECEPTACLE – NEMA 5–20R
- SIMPLEX RECEPTACLE – NEMA 5–20R, DEDICATED SERVICE/CIRCUIT
- QUADRUPLEX RECEPTACLE – MTD ABOVE COUNTER – NEMA 5–20R
- SINGLE RECEPTACLE – EQUIPMENT CONNECTION OR PROVISION
- SINGLE RECEPTACLE – NEMA 6–20R
- SINGLE RECEPTACLE – A=NEMA 5–30R; B=NEMA 6–30R; C=NEMA 14–30R
- X SINGLE RECEPTACLE – A=NEMA 5–50R; B=NEMA 6–50R; C=NEMA 14–50R

ALL RECEPTACLES TO BE HOSPITAL GRADE TYPE RECEPTACLES.

POWER

- FAN / FAN–COIL UNIT
- PACKAGED AIR CONDITIONING UNIT
- MAGNETIC MOTOR STARTER
- COMBINATION MAGNETIC STARTER & DISCONNECT SWITCH
- R RELAY
- ELECTRIC MOTOR
- DISCONNECT SWITCH, UNFUSED, 30A, 3P UNLESS OTHERWISE NOTED.
- DISCONNECT SWITCH, FUSED, 30A, 3P UNLESS OTHERWISE NOTED.
- VD VARIABLE SPEED / VARIABLE FREQUENCY DRIVE
- TS FOUR CHANNEL DIGITAL TIME SWITCH, 277V, TORK NO. DZS400A. SEE LIGHTING CONTROL WIRING DIAGRAM ON SHEET E–2.01
- C CONTACTOR: SURFACE MOUNTED – ELECTRICALLY OPERATED, ELECTRICALLY HELD, SEE CONTACTOR SCHEDULE ON SHEET E–2.01
- PE PHOTOELECTRIC CELL. COORDINATE MOUNTING LOCATION WITH ARCHITECT PRIOR TO ROUGH–IN.
- CIRCUIT BREAKER, INDIVIDUALLY ENCLOSED

FIRE ALARM

DETECTION

- DUCT SMOKE DETECTOR – RETURN
- DUCT SMOKE DETECTOR – SUPPLY
- FS FIRE ALARM FLOW
- TS FIRE ALARM TAMPER
- FLAME DETECTOR – FLAME
- HEAT DETECTOR
- R RELAY
- SMOKE DETECTOR
- C Z ZAM – CONTROL
- M Z ZAM – MONITOR

MC CABLE

1. WHERE MC CABLE IS USED, HOMERUNS SHALL BE IN CONDUIT. DO NOT RUN MC CABLE FLOOR TO FLOOR. ALL FLOOR PENETRATIONS SHALL BE IN CONDUIT.

LIGHTING (SEE LUMINAIRE SCHEDULE)

CEILING–RECESSED

- RECESSED FLUORESCENT LUMINAIRE – SINGLE OR CONTINUOUS LENGTHS AS SHOWN
- RECESSED LUMINAIRE
- RECESSED WALL WASHER
- RECESSED FLUORESCENT LUMINAIRE – SINGLE OR CONTINUOUS LENGTHS AS SHOWN. LIFE SAFETY EMERGENCY EGRESS LIGHTING.
- RECESSED LUMINAIRE. LIFE SAFETY EMERGENCY EGRESS LIGHTING.

CEILING–SURFACE/PENDANT

- SURFACE OR STEM MOUNTED FLUORESCENT STRIP LUMINAIRE – SINGLE OR CONTINUOUS LENGTHS AS SHOWN.
- SURFACE OR STEM MOUNTED FLUORESCENT LUMINAIRE – SINGLE OR CONTINUOUS LENGTHS AS SHOWN.
- SURFACE OR PENDANT MOUNTED LUMINAIRE
- SURFACE MOUNTED WALL WASHING LUMINAIRE
- EXIT SIGN – CEILING MOUNTED, DOUBLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE
- EXIT SIGN – CEILING MOUNTED, SINGLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE
- SURFACE OR STEM MOUNTED FLUORESCENT STRIP LUMINAIRE – SINGLE OR CONTINUOUS LENGTHS AS SHOWN. LIFE SAFETY EMERGENCY EGRESS LIGHTING.
- SURFACE OR STEM MOUNTED FLUORESCENT LUMINAIRE – SINGLE OR CONTINUOUS LENGTHS AS SHOWN. CONNECTED TO LIFE SAFETY EMERGENCY POWER SYSTEM.
- SURFACE OR PENDANT MOUNTED LUMINAIRE. LIFE SAFETY EMERGENCY EGRESS LIGHTING.

WALL

- WALL MOUNTED LUMINAIRE
- WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE
- EXIT SIGN – BACK MOUNTED, SINGLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE
- EXIT SIGN – END MOUNTED, DOUBLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE
- WALL MOUNTED FLUORESCENT STRIP LUMINAIRE – SINGLE OR CONTINUOUS LENGTHS AS SHOWN. LIFE SAFETY EMERGENCY EGRESS LIGHTING.
- WALL MOUNTED LUMINAIRE LIFE SAFETY EMERGENCY EGRESS LIGHTING.

SWITCHES

- S SINGLE POLE SWITCH, 20A, 125/277V.
- ^{3}S THREE WAY SWITCH, 20A, 125/277V.
- ^{4}S FOUR WAY SWITCH, 20A, 125/277V.
- ^{2}S DOUBLE POLE SWITCH, 20A, 125/277V.
- ^{TS}S THERMAL SWITCH, 1–POLE, 20A, 125/277V.
- ^{MC}S MOMENTARY CONTACT SWITCH, 1–POLE, 20A, 125/277V.
- ^{T}S TIME SWITCH, 1–POLE, 20A, 125/277V.
- ^{LV}S LOW VOLTAGE SWITCH
- ^{M}S MOTOR SWITCH, 1–POLE, 20A, 125/277V.
- D INCANDESCENT ARCHITECTURAL WALLBOX DIMMER, LITHONIA #SD 1000 I 120 WH/IV
- F D FLUORESCENT ARCHITECTURAL WALLBOX DIMMER,FOR TWO–WIRE BALLAST, LITHONIA #SD 600 ADEZ 120 WH/IV

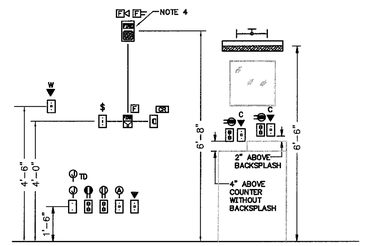
LIGHTING – EXTERIOR (SEE LUMINAIRE SCHEDULE)

- BOLLARD
- GROUND MOUNTED SPOT, FLOOD OR WELL LIGHT
- POLE–ARM MOUNTED AREA LIGHT
- WALL MOUNTED FLOOD OR AREA LIGHT

JUNCTION & OUTLET BOXES

- J JUNCTION BOX – CEILING MOUNTED
- P J POWER JUNCTION BOX – CEILING MOUNTED
- TD J TELE DATA JUNCTION BOX – CEILING MOUNTED
- J JUNCTION BOX – FLOOR MOUNTED
- J OFFICE AREA JUNCTION BOXES – WALL MOUNTED – PROVIDE 3/4" CONDUIT FROM JUNCTION BOX TO ABOVE ACCESSIBLE CEILING FOR MODULAR FURNITURE.
- J JUNCTION BOX – WALL MOUNTED
- J OUTLET BOX – WALL MOUNTED, WITH FLEXIBLE HARD WIRED CONNECTION TO EQUIPMENT
- J OUTLET BOX – CEILING MOUNTED, WITH FLEXIBLE HARD WIRED CONNECTION TO EQUIPMENT
- J OUTLET BOX – FLOOR MOUNTED, WITH FLEXIBLE HARD WIRED CONNECTION TO EQUIPMENT

STANDARD MOUNTING HEIGHTS



NOTES:

1. MOUNTING HEIGHTS SHOWN ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET, UNLESS OTHERWISE NOTED.
2. LOCATIONS OF OUTLETS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL TAKE PRECEDENCE OVER THESE MOUNTING HEIGHTS. FIELD LOCATE OUTLETS WITH ARCHITECT DURING ROUGH–IN.
3. INSTALL OUTLETS THAT ARE IN CLOSE PROXIMITY ON THE SAME CENTERLINE. OUTLETS THAT ARE WITHIN 2'–0" HORIZONTALLY AND WITHIN 1'–0" VERTICALLY SHALL BE INSTALLED ON THE SAME HORIZONTAL CENTERLINE LOCATED HALF WAY BETWEEN THE HEIGHTS SHOWN. OUTLETS THAT ARE MORE THAN 1'–0" APART VERTICALLY SHALL BE INSTALLED ON THE SAME VERTICAL CENTERLINE.
4. VERIFY MOUNTING HEIGHT WITH LOCAL AUTHORITY.

ELECTRICAL NOTES

1. THESE DRAWINGS ARE A PART OF A COMPLETE SET OF ARCHITECTURAL/ENGINEERING CONTRACT DOCUMENTS. ELECTRICAL CONTRACTOR SHOULD REFER TO THE ARCHITECTURAL DRAWINGS FOR ACTUAL LOCATION OF ITEMS WHERE SPECIFIED. SEE SAID CONFIGURATIONS FOR WALL DEFINITIONS, ELEVATIONS, CASEWORK, REFLECTED CEILING PLAN, ETC. ROUGH–IN INSTALLATIONS WHICH ARE NOT LOCATED ACCORDING TO THE ARCHITECTURAL ELEVATIONS SHALL BE RELOCATED AT NO ADDITIONAL COST.
2. CEILING CLEARANCES ARE CRITICAL FOR THIS PROJECT. GENERAL CONTRACTOR MUST COORDINATE ALL TRADES TO AVOID POTENTIAL INTERFERENCES. CONFLICTS BETWEEN TRADES SHALL BE REFERRED TO THE ARCHITECT FOR RESOLUTION.
3. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
4. ALL SYMBOLS SHOWN ON THIS LEGEND MAY NOT BE USED.
5. ALL PANELBOARDS ARE 3# 4W UNLESS OTHERWISE NOTED.
6. ALL BRANCH CIRCUIT CONDUIT SHALL BE GALVANIZED EMT, JOINED AND TERMINATED WITH SET SCREW TYPE STEEL FITTINGS, 1/2" CONDUIT MINIMUM.
7. ALL CIRCUITS SHOWN CONCEALED SHALL BE RUN IN FURRED CEILING SPACES AND SHALL BE CONCEALED IN CONCRETE SLAB ONLY WHEN NO FURRED CEILING SPACE IS PROVIDED.
8. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
9. ALL OUTLET BOXES MOUNTED BACK–TO–BACK IN WALLS SHALL HAVE FIREPROOF SOUND INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO THE OTHER.
10. ALL FLUSH MOUNTED PANELS SHALL HAVE 3–1" EMPTY CONDUITS STUBBED OUT ABOVE CEILING FOR FUTURE CIRCUITS.
11. ALL WALL OUTLETS NOT PROVIDED WITH A DEVICE BY THIS CONTRACTOR SHALL BE PROVIDED WITH BLANK WALL PLATES.
12. ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN COVERED GROUND WIRE SIZED PER NEC OR AS SHOWN. CONNECT TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE GROUND WIRE. NUMBER OF WIRES SHOWN ON DRAWINGS DOES NOT INCLUDE GROUND WIRE.
13. FINAL EQUIPMENT CONNECTIONS –
    THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR & MATERIALS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR AND/OR EQUIPMENT FURNISHED BY OTHERS. VERIFY ALL REQUIREMENTS, CONDUCTOR SIZE, OVERCURRENT PROTECTION, PHASE, VOLTAGE, MOTOR ROTATION, ETC., WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH–IN. PROVIDE FUSED DISCONNECT IF REQUIRED BY MANUFACTURER.

ABBREVIATIONS

A	AMPERES	CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
AA	AMBIENT AIR COOLED		
AIC	AMPERES INTERUPTING CAPACITY	CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
AFF	ABOVE FINISHED FLOOR		
AL	ALUMINUM		
ATS	AUTOMATIC TRANSFER SWITCH	OFOI	OWNER FURNISHED OWNER INSTALLED
AWG	AMERICAN WIRE GAUGE		
C	CONDUIT RACEWAY	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CU	COPPER		
CKTS	CIRCUITS		
CTTS	CLOSED TRANSITION TRANSFER SWITCH		
DIA	DIAMETER		
EC	ELECTRICAL CONTRACTOR	OC	ON CENTER
EM	EMERGENCY	P	POLES
EP	EXPLOSION PROOF	PF	POWER FACTOR
FA	FORCED AIR COOLED	PH	PHASES
FMC	FLEXIBLE METAL CONDUIT	PVC	POLYVINYL CHLORIDE RACEWAY
G	GROUND	RGS	RIGID GALVANIZED STEEL
H	MOUNTING HEIGHT TO CENTERLINE	UON	UNLESS OTHERWISE NOTED
HID	HIGH INTENSITY DISCHARGE	V	VOLTS
HP	HORSE POWER	W	WIRES
IG	ISOLATED GROUND	WP	WEATHERPROOF, NEMA 3R.
KVA	KILOVOLT–AMPERES		
KW	KILOWATT		
LT	LIQUID TIGHT FLEXIBLE METAL CONDUIT	EX	EXISTING TO REMAIN
KCMIL	THOUSAND CIRCULAR MILS	XR	EXISTING, REMOVE
MV	MEDIUM VOLTAGE	XRR	EXISTING, REMOVE & RELOCATE
N	NEUTRAL	XRL	EXISTING, RELOCATED
NEC	NATIONAL ELECTRICAL CODE	XRB	EXISTING, REMOVE DEVICE AND INSTALL BLANK COVER.
NIC	NOT IN CONTRACT		
NL	NIGHT LIGHT		

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ALABAMA REGISTERED PROFESSIONAL ENGINEER PHILIP GRATTON 11/97

NEW CONSTRUCTION
PATRICK DAVIS DENTAL OFFICE
1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE 11/25/08

CURRENT DATE 11/25/08

REVISIONS

SHEET TITLE
ELECTRICAL LEGEND AND NOTES.

SCALE: AS NOTED

DRAWN BY

E0
01

SHEET NO.

PROJECT NO.

DATE

LUMINAIRE SCHEDULE NOTES

1. MANUFACTURER CATALOG NUMBERS ARE SHOWN FOR GENERAL DESCRIPTIVE PURPOSES AND TO ESTABLISH STANDARD OF QUALITY ONLY. ACCUSERV SHALL PROVIDE LUMINAIRES COMPLETE WITH ALL OPTIONS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. ALL PRODUCTS SHALL BE UL LISTED.

2. PROVIDE PROPER LAMP FOR REFLECTOR ASSEMBLY SPECIFIED AND AS RECOMMENDED BY LUMINAIRE MANUFACTURER.

3. LINEAR FLUORESCENT LAMPS/ELECTRONIC BALLAST:

   FURNISH ALL LINEAR FLUORESCENT LAMPED LUMINAIRES WITH ENERGY EFFICIENT LAMPS AND ELECTRONIC BALLAST.

   a. FURNISH SOLID STATE HIGH FREQUENCY RAPID OR INSTANT START BALLAST FOR LINEAR FLUORESCENT LUMINAIRES. BALLAST SHALL HAVE FIVE (5) YEAR MANUFACTURER'S WARRANTY.

   b. BALLAST SHALL BE HIGH FREQUENCY (20KHz OR GREATER), OPERATE WITHOUT DETECTABLE FLICKER, AND SHALL PROVIDE FULL LIGHT OUTPUT. BALLAST SHALL BE U.L. CLASS P RATED FOR THERMAL PROTECTION AND RATED AT 50 DEGREES F STARTING TEMPERATURE. BALLAST SHALL NOT CONTAIN PCB TYPE MATERIAL.

   c. BALLAST SHALL COMPLY WITH FCC AND NEMA LIMITS GOVERNING EMI AND RFI AND SHALL NOT INTERFERE WITH OPERATION OF OTHER NORMAL ELECTRICAL EQUIPMENT. TOTAL HARMONIC DISTORTION SHALL BE LESS THAN 20%. BALLAST SHALL BE SOUND RATED A AND SHALL HAVE A CREST FACTOR OF 1.7 OR LESS.

   SYSTEM OF LAMPS AND BALLAST (IN ENCLOSED FLUORESCENT FIXTURE) SHALL PRODUCE THE FOLLOWING WHEN USED TOGETHER.

   TB LAMPS WITH ELECTRONIC BALLAST:

CONFIGURATION	BALLAST FACTOR	BALLAST EFFICACY FACTOR
2-LAMP	.88	1.46
3-LAMP	.88	1.00
4-LAMP	.85	0.75

   ACCEPTABLE BALLAST MANUFACTURER: ADVANCE, OSRAM/SYLVANIA, HOWARD INDUSTRIES, UNIVERSAL, VALMONT.

4. COMPACT FLUORESCENT LAMPS/ELECTRONIC BALLAST:

   COMPACT FLUORESCENT LUMINAIRES WITH RAPID START LAMPS (> 13 WATT) SHALL BE FURNISHED WITH PROGRAMMED RAPID START ELECTRONIC BALLAST.

   BALLAST SHALL BE UNIVERSAL VOLTAGE (120 OR 277V) AND OPERATE 26, 32 OR 42 WATT COMPACT FLUORESCENT LAMPS, IN ONE OR TWO LAMP CONFIGURATIONS, WITHOUT CHANGING BALLAST WIRING.

   BALLAST SHALL BE HIGH FREQUENCY, RAPID START, AND OPERATE LAMP WITHOUT DETECTABLE FLICKER. BALLAST SHALL BE HIGH POWER FACTOR (PF > 0.95), THD < 10%, AND BALLAST FACTOR > 0.95 BALLAST SHALL INCORPORATE AN END-OF-LIFE PROTECTIVE LAMP CIRCUIT.

   ACCEPTABLE BALLAST MANUFACTURER: ADVANCE, OSRAM/SYLVANIA ROBERTSON, UNIVERSAL

5. PROVIDE FUSES FOR UNGROUNDED CONDUCTORS SUPPLYING FLUORESCENT AND H.I.D. BALLASTS. FLUORESCENT: GMF/HLR H.I.D.: HEB/KTK. PROVIDE FUSE SIZED FOR RATING OF BALLAST.

6. ACCEPTABLE LAMP MANUFACTURERS:
   FLUORESCENT & INCANDESCENT: GE, OSRAM/SYLVANIA, PHILIPS
   HID AND QUARTZ-HALOGEN LAMPS: G.E., OSRAM/SYLVANIA, PHILIPS, VENTURE, USHIO

7. PROVIDE FLUORESCENT LAMPS WITH LOW-MERCURY CONTENT, COMPLIANT WITH FEDERAL EPA TCLP REQUIREMENTS, a.K.a "ECO", "ALTO", OR "ECOLUX"

8. VERIFY CONSTRUCTION OF CEILINGS BEING INSTALLED AND PROVIDE THE LUMINAIRES SPECIFIED IN APPROPRIATE CONFIGURATION WITH ALL HARDWARE AND ACCESSORIES REQUIRED FOR COMPATIBLE INSTALLATION.

9. PROVIDE LUMINAIRES WITH JOINING PLATES, END CAPS, CANOPIES, MOUNTING HARDWARE, ETC., AS REQUIRED FOR COMPLETE INSTALLATION.

10. EXIT LIGHTS SHALL BE PROVIDED WITH COLOR OF LETTERS REQUIRED BY LOCAL CODE AUTHORITY. FURNISH WITH CHEVRON DIRECTIONAL INDICATORS AS INDICATED AND REQUIRED.

11. PROVIDE DEVICES FOR SECURING LAY-IN TYPE LUMINAIRES TO CEILING GRID TO COMPLY WITH ARTICLE 410 OF THE NATIONAL ELECTRICAL CODE.

12. FURNISH WALL/SLOT LUMINAIRE WITH NECESSARY CORNERS AND END PLATES, MOUNTING HARDWARE, ETC., FOR A COMPLETE INSTALLATION OF CONTINUOUS LIGHTED SLOT FITTING WALL TO WALL OR RUN CONTINUOUS AS SHOWN ON DRAWINGS.

13. FURNISH LINEAR LUMINAIRES IN CONTINUOUS ROWS OR PATTERNS AS INDICATED ON DRAWINGS. PROVIDE WITH CORNER, ANGLE, AND END PIECES AS REQUIRED FOR A COMPLETE FINISHED INSTALLATION.

14. FURNISH LUMINAIRES IN MECHANICAL SPACES COMPLETE WITH PENDANT STEMS OR CHAIN HANGARS AS REQUIRED TO MOUNT BELOW PIPING, DUCT, CONDUIT, ETC., MAINTAIN MINIMUM 7'-6"H. UNIFORM MOUNTING HEIGHT FOR ALL LUMINAIRES THROUGHOUT EACH AREA.

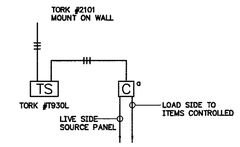
15. PENDANT-MTD LUMINAIRES WITH AIRCRAFT CABLE SUSPENSION SYSTEMS SHALL BE FURNISHED WITH ADJUSTABLE CABLE GRIP HARDWARE. CABLE SIZE SHALL BE SELECTED BY MANUFACTURER TO PROVIDE ADEQUATE SUPPORT OF LUMINAIRE SPECIFIED.

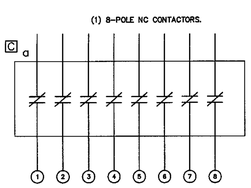
16. H.I.D. LUMINAIRES INDICATED FOR USE AS EMERGENCY LIGHTING SHALL BE PROVIDED WITH AUXILIARY "QUARTZ-RESTRIKE" SYSTEM CONSISTING OF QUARTZ-HALOGEN LAMP SOCKET, TIME-DELAY RELAY, AND CURRENT-SENSING DEVICE. AUXILIARY LAMP SHALL INSTANTLY LIGHT WHEN THE PRIMARY LAMP ENERGIZES AND EXTINGUISHES WHEN PRIMARY LAMP REACHES 60% NORMAL LIGHT OUTPUT.

17. SEE DETAIL #7 ON SHEET E004 FOR ADDITIONAL SUPPORT FOR 2'x4' LUMINAIRE FIXTURES.

18. EMERGENCY BATTERY BALLASTS FOR LINEAR FLUORESCENT LUMINAIRES SHALL PRODUCE 1350 LUMENS FOR 90 MINUTES MINIMUM. BODINE #B50 OR EQUAL.

19. POLE MANUFACTURER SHALL COORDINATE WITH LUMINAIRE MANUFACTURER TO PROVIDE ADEQUATE STRENGTH TO SUPPORT THE FIXTURE. PROVIDE APPROPRIATE MOUNTING HARDWARE, ANCHOR BOLTS, BOLT/BASEPLATE COVERS, AND GROUNDING LUG. MANUFACTURER SHALL FURNISH AN ANCHOR BOLT TEMPLATE TO ENSURE PROPER MOUNTING AND LUMINAIRE ORIENTATION FOR CORRECT LIGHT DISTRIBUTION.





CONTACTOR – 'a'

	CONTROLS	PANEL/CIR.
1	BUILDING EXTERIOR LIGHTING	RP-1/ #13
2	FLOODLIGHTS	RP-1/ #12
3	SITE SIGN LIGHTING	RP-1/ #19
4	PARKING LOT LIGHTING	RP-1/ #16,18
5	PARKING LOT LIGHTING	
6	SPARE	./.
7	SPARE	./.
8	SPARE	./.

1 / E002 WIRING DIAGRAM
OUTSIDE LIGHTING
NO SCALE

NOTES:

1. CONTACTORS 'a' SHALL FAIL SAFE CLOSED UPON LOSS OF POWER.
2. PROVIDE TYPEWRITTEN DIRECTORY FOR CONTACTOR 'a'.

LUMINAIRE SCHEDULE

MARK	LAMPS QTY	LAMPS TYPE	VOLTS	DESCRIPTION	SPECIAL OPTIONS & NOTES	MANUFACTURER	CATALOG NUMBER
DKA	1	PL70/RE841	120	PENDANT MOUNTED ROUND DECORATIVE LUMINAIRE, CAST ALUMINUM HOUSING, FROSTED TEMPERED HIGH BORON SILICATE GLASS LENS, SYMMETRIC DISTRIBUTION, LIGHT GREY FINISH, OPAL SHADE; PENDANT MOUNT, STEM WITH CANOPY; UL LISTED FOR WET LOCATION.	SEE ARCHITECTURAL FOR MOUNTING LENGTH OF PENDANT. PROVIDE EMERGENCY BATTERY PACK.	ARCHITECTURAL AREA LIGHTING	ACRD GLF PL70 LGY OPAL PWS EM
CKE	2	26W DBX/ RE841	120	SUSPENDED FLUORESCENT DECORATIVE LUMINAIRE, 47" HEIGHT, TOPAZ SATIN FINISH BLOWN GLASS, SATIN NICKEL FINISH.	SEE ARCHITECTURAL FOR MOUNTING LENGTH OF PENDANT.	HAMPSTEAD	CLESSY D1 SMALL SUSPENSION 14244
CRPE	2	CFQ26W/G24Q/ RE841	120	RECESSED COMPACT FLUORESCENT OPEN DOWNLIGHT, 7 INCH DIAMETER APERTURE, CLEAR ALZAK REFLECTOR, WHITE TRIM FLANGE, HIGH POWER FACTOR.		KIRLIN EDISON PRICE KURT VERSEN	FRR-07009-31-FS EQUAL EQUAL
DRPE	2	CFQ26W/G24Q/ RE841	120	RECESSED COMPACT FLUORESCENT OPEN DOWNLIGHT, 7 INCH DIAMETER APERTURE, CLEAR ALZAK REFLECTOR, WHITE TRIM FLANGE, HIGH POWER FACTOR.	PROVIDE WITH EMERGENCY BATTERY BALLAST.	KIRLIN EDISON PRICE KURT VERSEN	FRR-07009-31-FS-73 EQUAL EQUAL
CWPE	2	CFQ26W/G24Q/ RE841	120	RECESSED COMPACT FLUORESCENT OPEN WALLWASH DOWNLIGHT, 7 INCH DIAMETER APERTURE, CLEAR ALZAK REFLECTOR, WHITE TRIM FLANGE, HIGH POWER FACTOR.		KIRLIN EDISON PRICE KURT VERSEN	FRR-07026-31-FS EQUAL EQUAL
DBWA	1	CFQ28/G24Q/ RE841	120	WALL MOUNTED COMPACT FLUORESCENT LUMINAIRE, DIE CAST ALUMINUM HOUSING, DARK BRONZE FINISH. WHITE POLYCARBONATE OPTICS.	MOUNTED AT 7'-0" ABOVE FINISHED GRADE TO BOTTOM OF FIXTURE. PROVIDE REMOTE EMERGENCY BATTERY PACK.	LITHONIA LURALINE	WPCW 28DTT 120 EM EQUAL
FGA3	3	F32T8/RE841	120	RECESSED STATIC FLUORESCENT LENSED LUMINAIRE. 2' x 4' LAY-IN, FLAT STEEL DOOR, 0.125" CLEAR ACRYLIC A-12 PRISMATIC LENS. WHITE FINISH.		COLUMBIA DAYBRITE LITHONIA	4PS-24-332-G-FS-A12-3E 2SPG 332 FS 21 1/3 EB10I GMF 2SPB G 332 A12125 GEB10IS GMF
EGA3	3	F32T8/RE841	120	RECESSED STATIC FLUORESCENT LENSED LUMINAIRE. 2' x 4' LAY-IN, FLAT STEEL DOOR, 0.125" CLEAR ACRYLIC A-12 PRISMATIC LENS. WHITE FINISH.	PROVIDE EMERGENCY BATTERY PACK	COLUMBIA DAYBRITE LITHONIA	4PS-24-332-G-FS-A12-3E-EL142 2SPG 332 FS 21 1/3 EB10I GMF E5 2SPB G 332 A12125 GEB10IS GMF EL14
FGC2	2	F32T8/RE841	120	RECESSED DIRECT/INDIRECT FLUORESCENT LUMINAIRE. 2' x 4' LAY-IN, FLAT STEEL DOOR, METAL PERF BASKET.		COLUMBIA DAYBRITE LITHONIA	STR-24-2-32-G-MPO-E 2AVG232-PWM-UNV-1/3-EB10I 2AV G 232 MDR MVOLT GEB10IS
EGC2	2	F32T8/RE841	120	RECESSED DIRECT/INDIRECT FLUORESCENT LUMINAIRE. 2' x 4' LAY-IN, FLAT STEEL DOOR, METAL PERF BASKET.	PROVIDE WITH EMERGENCY BATTERY BALLAST.	COLUMBIA DAYBRITE LITHONIA	STR-24-2-32-G-MPO-E-EL 2AVG232-PWM-UNV-1/2-EB10I-E5 2AV G 232 MDR MVOLT GEB10IS EL14
FGC3	3	F32T8/RE841	120	RECESSED DIRECT/INDIRECT FLUORESCENT LUMINAIRE. 2' x 4' LAY-IN, FLAT STEEL DOOR, METAL PERF BASKET.		COLUMBIA DAYBRITE LITHONIA	STR-24-3-32-G-MPO-E 2AVG232-PWM-UNV-1/3-EB10I 2AV G 332 MDR MVOLT GEB10IS
FLW7	1	F54T5HO/RE835	120	LINEAR FLUORECENT LIGHTING FIXTURE, 51.0" LENGTH, EXTRUDED ALUMINUM WITH DIE CAST ALUMINUM END CAPS, VERTICAL FLOOD DISTRIBUTION, KNUCKLE MOUNT, PEDESTAL STANCHION MOUNT, FULL VISOR, BRONZE FINISH.	PROVIDE POLAR PACK COLD WEATHER	HYDREL BRONZELITE SPI	4754 54T5HO 120 VFL KM PSSA ETE1 FVSR PLPKX LP35K BZ EQUAL EQUAL
FSS2	2	F32T8/RE841	120	IN-COVE II INDIRECT ASSYMETRICAL OPTICAL LIGHTING SYS., FORWARD THROW DISTRIBUTION, LENGTH AS SHOWN ON PLANS, SOLID HOUSING, ELECTRONIC BALLAST, WHITE FINISH. 4 FT. MODULE WITH TWO LAMPS.	PROVIDE ALL PARTS FOR A COMPLETE INSTALLATION.	LEDALITE LITECONTROL	3808 T02 E N 4 1 1 E W EQUAL
FSS4	4	F32T8/RE841	120	IN-COVE II INDIRECT ASSYMETRICAL OPTICAL LIGHTING SYS., FORWARD THROW DISTRIBUTION, LENGTH AS SHOWN ON PLANS, SOLID HOUSING, ELECTRONIC BALLAST, WHITE FINISH. 8 FT. MODULE WITH TWO LAMPS PER 4' CROSS SECTION.	PROVIDE ALL PARTS FOR A COMPLETE INSTALLATION.	LEDALITE LITECONTROL	3808 T02 E N 72 1 1 E W EQUAL
FSS9	2	F17T8/RE841	120	IN-COVE II INDIRECT ASSYMETRICAL OPTICAL LIGHTING SYS., FORWARD THROW DISTRIBUTION, LENGTH AS SHOWN ON PLANS, SOLID HOUSING, ELECTRONIC BALLAST, WHITE FINISH. 2 FT. MODULE WITH TWO LAMPS.	PROVIDE ALL PARTS FOR A COMPLETE INSTALLATION.	LEDALITE LITECONTROL	3808 T02 E N 2 1 1 E W EQUAL
FSX2	2	F32T8/RE830	120	CHAIN HUNG FLUORESCENT STRIP LUMINIARE, 4'-0" LENGTH, STEEL BODY, BAKED WHITE ENAMEL FINISH.	PROVIDE WIREGUARD AND CHAIN HANGER SET.	DAYBRITE LITHONIA COLUMBIA	T232 1/2EB GMF1 CG-4 FKR-126 C232 120 GEB10IS GMF WG HC CS4-232-E-120-GMF-CSWG4 CSHC
ESX2	2	F32T8/RE830	120	CHAIN HUNG FLUORESCENT STRIP LUMINIARE, 4'-0" LENGTH, STEEL BODY, BAKED WHITE ENAMEL FINISH.	PROVIDE EMERGENCY BATTERY PACK, WIREGUARD AND CHAIN HANGER SET.	DAYBRITE LITHONIA COLUMBIA	T232 1/2EB GMF1 E5 CG-4 FKR-126 C232 120 GEB10IS GMF EL14 WG HC CS4-232-E-120-GMF-CSWG4 CSHC
LBI	6	10W/1B/G4	120	LOW VOLTAGE WALL MOUNTED LUMINAIRE, TWIN TUBE HEAD, FROSTED COLOR, SATIN NICKEL FINISH, 4" CANOPY, INSTALLATION KIT INCLUDES: 36" MONORAIL, (2) TELESCOPING RIGID STANDOFFS, (1) SET OF ENDCAPS, (1) REMOTE CANOPY AND POWER FEED COMBINATION, (1) 75W ELEC. TRANSFORMER.	REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT.	LBL LIGHTING	KHBTWN TB FR SC 1B 10 G4
LKC	4	35W 12V/ GY6.35 BASE	120	LOW VOLTAGE PENDANT MOUNTED LUMINAIRE, 22" DIAMETER, HANDBLOWN GLASS SHADE, POLISHED NICKEL METAL FINISH, WHITE CASED SHADE COLOR. PROVIDED WITH SINGLE REMOTE ELECTRONIC TRANSFORMER,	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT. REMOTE TRANSFORMER MUST BE INSTALLED WITHIN 20' OF THE FIXTURE.	NEIDHARDT	GRACE P4 (WHITE CASED)
LKI	1	20W G4	120	LOW VOLTAGE PENDANT MOUNTED LUMINAIRE, BELL-SHAPED TRANSPARENT GLASS SHADE EMBELLISHED WITH ELEGANT GLASS WRAP, OLIVE GREEN GLASS COLOR, SATIN NICKEL FINISH. MONOPOINT MOUNTING.	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT. MONOPOINT MOUNTING INCLUDES 4" ROUND FLUSH CANOPY WITH INTEGRAL TRANSFORMER.	LBL LIGHTING	HS404 GR SC 1B 20 MPT
MAH3	1	MH400/U/ED28	208	METAL HALIDE CUTOFF AREA LUMINAIRE, SINGLE HEAD, TYPE III ASYMMETRIC DISTRIBUTION, ALUMINUM HOUSING, 30'-0" SQUARE STRAIGHT STEEL POLE; DARK BRONZE FINISH.		LITHONIA POLE: EMCO SPAULDING	KAD 400M R3 208 SPD04 DF DDB SSS 30 4G DM19 DDB EQUAL EQUAL
MAH3(HS)	1	MH400/U/ED28	208	METAL HALIDE CUTOFF AREA LUMINAIRE, SINGLE HEAD, TYPE III ASYMMETRIC DISTRIBUTION, ALUMINUM HOUSING, 30'-0" SQUARE STRAIGHT STEEL POLE; DARK BRONZE FINISH.	PROVIDE HOUSE-SIDE SHIELD	LITHONIA POLE: EMCO SPAULDING	KAD 400M R3 208 SPD04 DF DDBM HS SSS 30 4G DM19 DDB EQUAL EQUAL
MBWC	1	MH100/U/MED	120	WALL MOUNTED METAL HALIDE LUMINAIRE, ALUMINUM HOUSING; WIDE ASYMMETRIC DISTRIBUTION, DARK BRONZE FINISH.	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT.	LITHONIA	WFL2 100M HPW 120 SF DDB
MFWC	1	MH100/U/MED	120	METAL HALIDE ARCHIECTURAL FLOODLIGHT, ALUMINUM HOUSING; WIDE ASYMMETRIC DISTRIBUTION, STANCHION MOUNT, BARN DOORS, DARK BRONZE FINISH.		LITHONIA GARDCO KIM	KFL2 100M HPW 120 AFSTM SF BD DDB DF7 ST HFL 100MH 120 BFP BD AFL11-100MH120-SM18-BD
UC3	1	F25T8/RE841	120	UNDER COUNTER FLUORESCENT, 3'-0" LENGTH, ELECTRONIC BALLAST, ACRYLIC DIFFUSER.	PROVIDE WITH ROCKER SWITCH.	NULITE KENALL LITHONIA	114-125-120V-EB1Q-RS UCDD 36 PB 120 FS SW 2UC 25 OP 120 GB10IS SWR
XA		WITH UNIT	120	LED SELF-POWERED EXIT SIGN, SINGLE FACE, CEILING MOUNTED, EDGE LIT WITH CLEAR ACRYLIC BODY, RED STENCIL LETTERS, NICKEL-CADMIUM BATTERY, BRUSHED ALUMINUM HOUSING.	PROVIDE SELF-DIAGNOSTICS.	LITHONIA MCPHILBEN DUAL-LITE	LRP 1 RC 120/277 EL N SD ER45VXL 1 RC LE C S R N E I
XAL		WITH UNIT	120	LED SELF-POWERED EXIT SIGN, SINGLE FACE, CEILING MOUNTED, EDGE LIT WITH CLEAR ACRYLIC BODY, RED STENCIL LETTERS, NICKEL-CADMIUM BATTERY, BRUSHED ALUMINUM HOUSING. PROVIDE LEFT CHEVRON INDICATOR.	PROVIDE SELF-DIAGNOSTICS.	LITHONIA MCPHILBEN DUAL-LITE	LRP 1 RC LA 120/277 EL N SD ER45VXL 1 RC AL LE C S R L N E I
XAR		WITH UNIT	120	LED SELF-POWERED EXIT SIGN, SINGLE FACE, CEILING MOUNTED, EDGE LIT WITH CLEAR ACRYLIC BODY, RED STENCIL LETTERS, NICKEL-CADMIUM BATTERY, BRUSHED ALUMINUM HOUSING. PROVIDE RIGHT CHEVRON INDICATOR.	PROVIDE SELF-DIAGNOSTICS.	LITHONIA MCPHILBEN DUAL-LITE	LRP 1 RC RA 120/277 EL N SD ER45VXL 1 RC AR LE C S R R N E I
XAW		WITH UNIT	120	LED SELF-POWERED EXIT SIGN, SINGLE FACE, WALL MOUNTED, EDGE LIT WITH CLEAR ACRYLIC BODY, RED STENCIL LETTERS, NICKEL-CADMIUM BATTERY, BRUSHED ALUMINUM HOUSING.	PROVIDE SELF-DIAGNOSTICS.	LITHONIA MCPHILBEN DUAL-LITE	LRP 1 RC 120/277 EL N SD ER45VXL W 1 RC LE W S R N E I

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ALABAMA REGISTERED PROFESSIONAL ENGINEER PHILIP BRITTON 11/25/08

NEW CONSTRUCTION
PATRICK DAVIS DENTAL OFFICE
1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE
11/25/08

CURRENT DATE
11/25/08

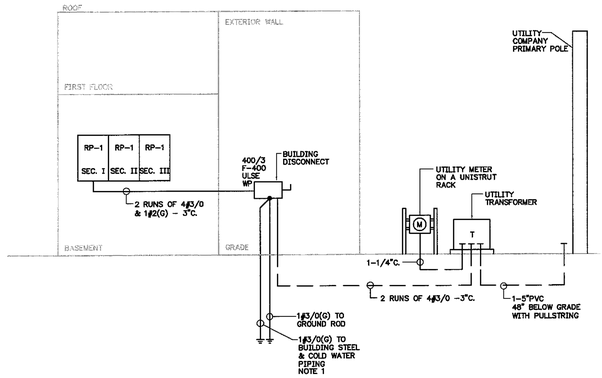
REVISIONS

SHEET TITLE
LUMINAIRE SCHEDULE AND NOTES

SCALE: AS NOTED

DRAWN BY

E0
02



RISER DIAGRAM
POWER DISTRIBUTION
NO SCALE

SINGLE LINE DIAGRAM NOTES:

1. PROVIDE GROUNDING PER ARTICLE 250.50 OF THE 2002 NEC. SEE DETAIL #5 ON SHEET E004.

PANEL: RP-1 | DC DEVICE TYPE: 400 MLO | ENCLOSURE: NEMA 1 | MAINS(A): 400 MLO | CONTINUOUS(A): 400
LOCATION: BASEMENT ELEC. ROOM | DEVICE FAMILY: 3GL | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | BUS SC RATING(A) 22000
FED FROM: UTILITY | VOLTAGE: 208/120 | FAULT CURRENT(A): 10676

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 1		LIGHTING	LTS	1190	1	2835			2	1645	LTS	LIGHTING		20 1
20 1		LIGHTING	LTS	1260	3		2765		4	1505	LTS	LIGHTING		20 1
20 1		LIGHTING	LTS	1200	5			2700	6	1500	LTS	LIGHTING		20 1
20 1		LIGHTING	LTS	1085	7	1785			8	700	LTS	LIGHTING		20 1
20 1		LIGHTING	LTS	1600	9		1675		10	75	LTS	LIGHTING		20 1
20 1		BASEMENT LIGHTING	LTS	725	11			1645	12	910	LTS	FLOOD LIGHTING		20 1
20 1		EXT WALL MOUNTED LTS	LTS	110	13	275			14	165	LTS	MEZZANINE LIGHTING		20 1
20 1		CONTACTOR 'A'	LTS	300	15		960		16	920	LTS	PARKING LOT LIGHTING		20 2
20 1		CYLINDER STORAGE REC	REC	200	17			660	18	-		" "		" "
20 1		MONUMENT SIGN	LTS	130	19	314			20	200	GEN	FIREPLACE		20 1
20 1		REFRIGERATOR	REC	1200	21		1800		22	600	REC	RECEPTACLES		20 1
20 1		VENDING	REC	1500	23			2030	24	530	REC	RECEPTACLES / EF-2		20 1
20 1		VENDING	REC	1500	25	2500			26	1000	REC	RECEPTACLES		20 1
20 1		MODEL TRIMMER #16	REC	1900	27		1900		28	400	REC	RECEPTACLES		20 1
20 1		RECEPTACLES	REC	600	29			1200	30	600	REC	RECEPTACLES		20 1
20 1		RECEPTACLES	REC	800	31	2300			32	1500	REC	AUTO-CLAVE		20 1
20 2		208 V 1 PHASE POWER	GEN	3000	33		2700		34	1200	REC	STATIM		20 1
" "		" "	-	-	35			2700	36	1200	REC	ULTRA-SONIC CLEANER		20 1
20 1		RECEPTACLES	REC	1200	37	2200			38	1000	REC	RECEPTACLES		20 1
20 1		TB3- REC.	REC	1500	39		2300		40	800	REC	RECEPTACLES		20 1
20 1		RECEPTACLES	REC	400	41			1400	42	1000	REC	RECEPTACLES		20 1
20 2		PANORAMIC X-RAY	GEN	3000	43	3000			44	1500	REC	PANORAMIC X-RAY		20 1
" "		" "	-	-	45		2100		46	600	REC	RECEPTACLES		20 1
20 1		RECEPTACLES	REC	1000	47			1600	48	600	REC	RECEPTACLES		20 1
20 1		EKG	REC	1500	49	2500			50	1000	REC	RECEPTACLES		20 1
20 1		RECEPTACLES	REC	1000	51		2500		52	1500	REC	RECEPTACLES		20 1
20 1		RECEPTACLES	REC	1000	53			1200	54	200	REC	RECEPTACLES		0 1
20 1		ITEM #3	REC	960	55	1560			56	600	REC	ITEM #5		20 1
20 1		ITEM #3	REC	960	57		1560		58	600	REC	ITEM #5		20 1
20 1		ITEM #3	REC	960	59			1560	60	600	REC	ITEM #5		20 1
20 1		ITEM #3	REC	960	61	1560			62	600	REC	ITEM #5		20 1
20 1		ITEM #3	REC	960	63		1860		64	900	GEN	ITEM #3 POWER		15 1
20 1		ITEM #3	REC	960	65			1860	66	900	GEN	ITEM #3 POWER		15 1
20 1		ITEM #3	REC	960	67	1860			68	900	GEN	ITEM #3 POWER		15 1
20 1		TV MONITOR	REC	720	69		1620		70	900	GEN	ITEM #3 POWER		15 1
20 1		TV MONITOR	REC	720	71			1320	72	600	REC	RECEPTACLES		20 1
20 1		RECEPTACLES	REC	900	73	1190			74	390	MTR	EF-1, VF-1, VF-2		20 1
20 1		RECEPTACLES	REC	1000	75		3250		76	4500	HEAT	ELEC. WATER HEATER		30 2
20 1		RES-1	MTR	600	77			2850	78	-		" "		" "
20 1		WATER SOLENOID #30A	REC	1000	79	2560			80	3120	MTR	AIR COMP. WITH DRYER		20 2
20 2		VACUUM PUMP #26A	MTR	3120	81		3120		82	-		" "		" "
" "		" "	-	-	83			1960	84	400	REC	ROOF RECEPTACLES		20 1
25 3		WSHP-1	MTR	5405	85	2486			86	2054	MTR	LP-1 (1.5HP)		15 3
" "		" "	-	-	87		2486		88	-		" "		" "
" "		" "	-	-	89			2486	90	-		" "		" "
20 2		EWH-1	HEAT	2000	91	2802			92	5405	MTR	WSHP-2		25 3
" "		" "	-	-	93		2802		94	-		" "		" "
20 1		ITEM #6C	LTS	1440	95			3242	96	-				
20 1		ITEM #6C	LTS	1080	97	1280			98	200	GEN	DUCT DETECTOR POWER	NOTE 3	20 1
20 1		ITEM #6C	LTS	1000	99		1200		100	200	LTS	ALARM STATION		20 1
20 1		LIGHTING	LTS	1000	101			2000	102	1000	REC	UTILITY CENTER REC.		20 1
20 1		RECEPTACLES	REC	600	103	1600			104	1000	REC	UTILITY CENTER REC.		20 1
20 1		RECEPTACLES	REC	400	105		1400		106	1000	REC	UTILITY CENTER REC.		20 1
20 1		RECEPTACLES	REC	400	107			1400	108	1000	REC	UTILITY CENTER REC.		20 1
20 1		RECEPTACLES	REC	800	109	2482			110	5045	MTR	WSHP-3		25 3
30 3		WSHP-4	LMTR	6755	111		4600		112	-		" "		" "
" "		" "	-	-	113			4600	114	-		" "		" "
" "		" "	-	-	115	4585			116	9000	HEAT	EWH-1		20 3
20 3		EUH-2	HEAT	9000	117		3333		118	-		" "		" "
" "		" "	-	-	119			3333	120	-		" "		" "
" "		" "	-	-	121	1667			122	0	GEN	SPACE		30 1
20 1		SPARE	GEN	0	123		0		124	0	GEN	SPACE		30 1
20 1		SPARE	GEN	0	125			0	126	0	GEN	SPACE		30 1

	KVA	MAX PH AMPS
ALL CONNECTED		
TOTAL CONNECTED	131.01	382.6
TOTAL DEMAND	110.66	330.1
TOTAL DESIGN	117.83	349.9

PHASE TOTALS	VA	AMPS
A-N	43389.5	361.3
B-N	45941.9	382.6
C-N	41879.0	348.7

BUS TOTALS	KVA
CONNECTED	131.01
DEMAND	110.66
DESIGN	117.83

DATE: Nov 24, 2008
TIME: 15:30:16

NOTE 1. PROVIDE THREE EQUAL SECTIONS.
NOTE 2. PROVIDE SUB-FEED LUGS.
NOTE 3. PROVIDE LOCK ON TYPE BREAKER.

SHEET NO.
PROJECT NO.
DATE

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Job No: 07433.00
Dwg File: 07433E03.DWG
Plot Date: 11/24/08 03:39

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PATRICK DAVIS DENTAL OFFICE
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6504A

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11/25/08

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REVISIONS

SHEET TITLE
ELECTRICAL RISER AND PANELBOARD SCHEDULES

SCALE: AS NOTED

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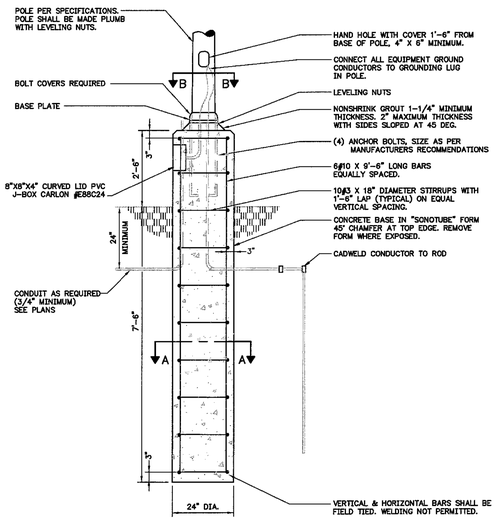
E0
03

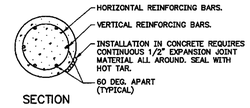
SHEET NO.

PROJECT NO.

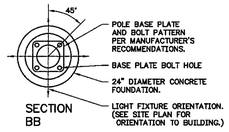
DATE



9 / E004 DETAIL
POLE BASE FOR LIGHTING STANDARD
NO SCALE



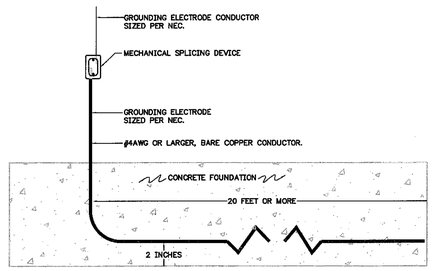
SECTION
AA



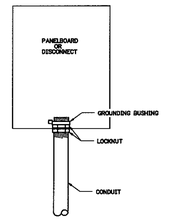
SECTION
BB

NOTES:

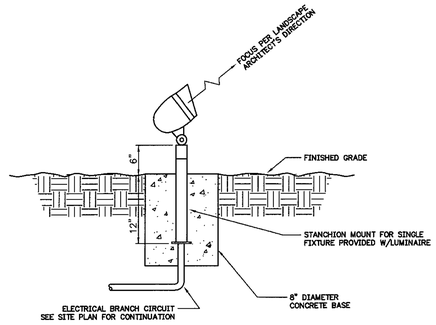
1. 3500 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH CONCRETE WITH GRADE 60 RE-BARS.
2. IF WATER IS PRESENT IN HOLE, REMOVE BEFORE POURING CONCRETE.
3. FOUNDATION EXCAVATION SHALL BE BY 24" AUGAR IN UNDISTURBED OR PROPERLY COMPACTED FILL.
4. MINIMUM ALLOWABLE SOIL BEARING PRESSURE 3000 PSF. NOTIFY ENGINEER IF BEARING PRESSURE IS LESS.
5. AIR ENTRAINMENT: 4 TO 6%.



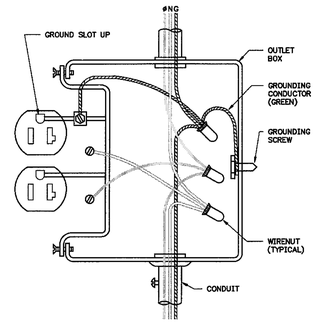
5 / E004 DETAIL
"UFER" GROUNDING
NO SCALE



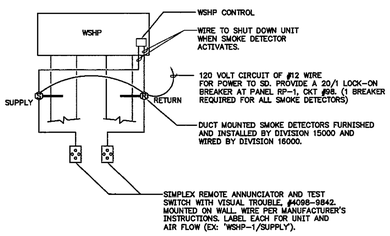
1 / E004 DETAIL
CONDUIT TERMINATION



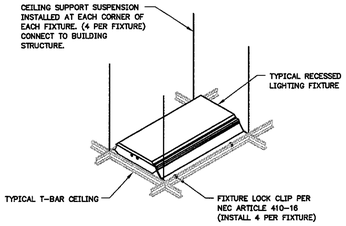
6 / E004 DETAIL
MOUNTING OF LUMINAIRE TYPE "MFWC"
NO SCALE



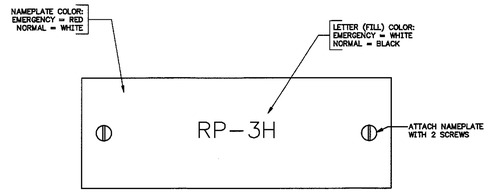
2 / E004 DETAIL
TYPICAL INSTALLATION OF RECEPTACLE
NO SCALE



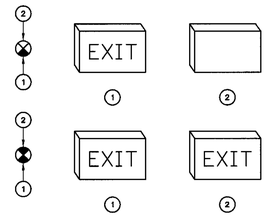
10 / E004 DUCT MOUNTED SMOKE DETECTOR DETAIL
NO SCALE



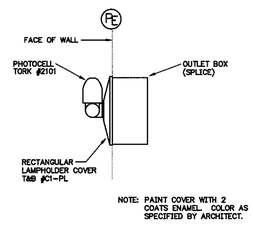
7 / E004 DETAIL
RECESSED 2'x4' MOUNTING
NO SCALE



3 / E004 DETAIL
ELECTRICAL NAMEPLATE
NO SCALE



8 / E004 DETAIL
EXIT SIGNS
NO SCALE



NOTE: PAINT COVER WITH 2 COATS ENAMEL. COLOR AS SPECIFIED BY ARCHITECT.

4 / E004 DETAIL
WALL MOUNTED PHOTOCELL
NO SCALE

C R·S
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Job No. 07433.00
Dwg File: 07433E03.DWG
Plot Date: 11/24/08-04:00

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11/24/08

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1771 NORTH LOOP
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6504A

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SHEET TITLE
ELECTRICAL DETAILS

SCALE: AS NOTED

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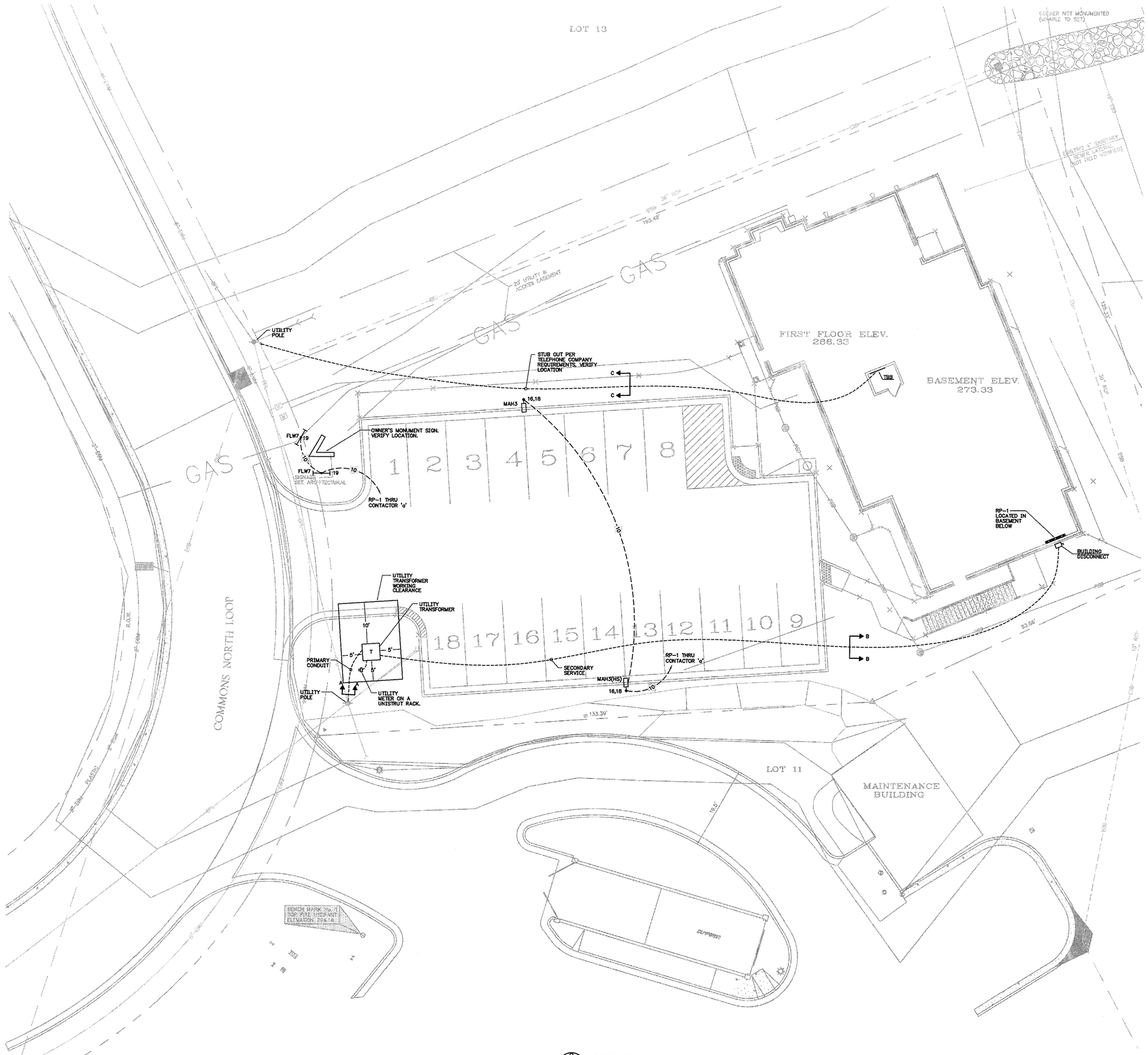
E0
04

SHEET NO.

PROJECT NO.

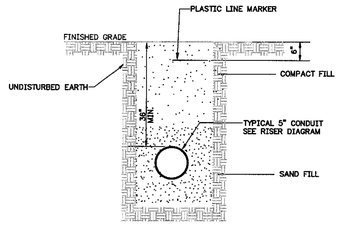
DATE



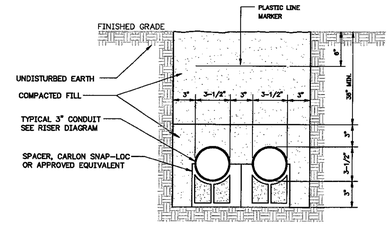
SITE PLAN
ELECTRICAL
NORTH
0 5 10 20
SCALE: 1" = 10'

NOTES:

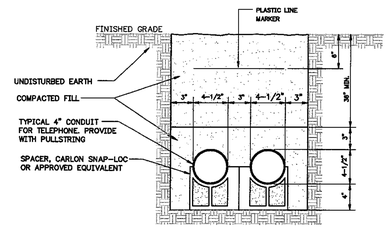
1. BOLLARDS FOR VEHICLE PROTECTION OF TRANSFORMER. VERIFY EXACT TYPE AND INSTALLATION REQUIREMENTS WITH UTILITY COMPANY.



1 / E101 DETAIL
PRIMARY DUCT BANK
SECTION "A–A"
NO SCALE



2 / E101 DETAIL
SECONDARY DUCT BANK
SECTION "B–B"
NO SCALE



3 / E101 DETAIL
TELEPHONE SERVICE CONDUIT
SECTION "C–C"
NO SCALE

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6504A

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SHEET TITLE
ELECTRICAL SITE PLAN.

SCALE: AS NOTED

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E1
01

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A · · · A
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SHEET TITLE
BASEMENT PLAN
LIGHTING

SCALE: AS NOTED
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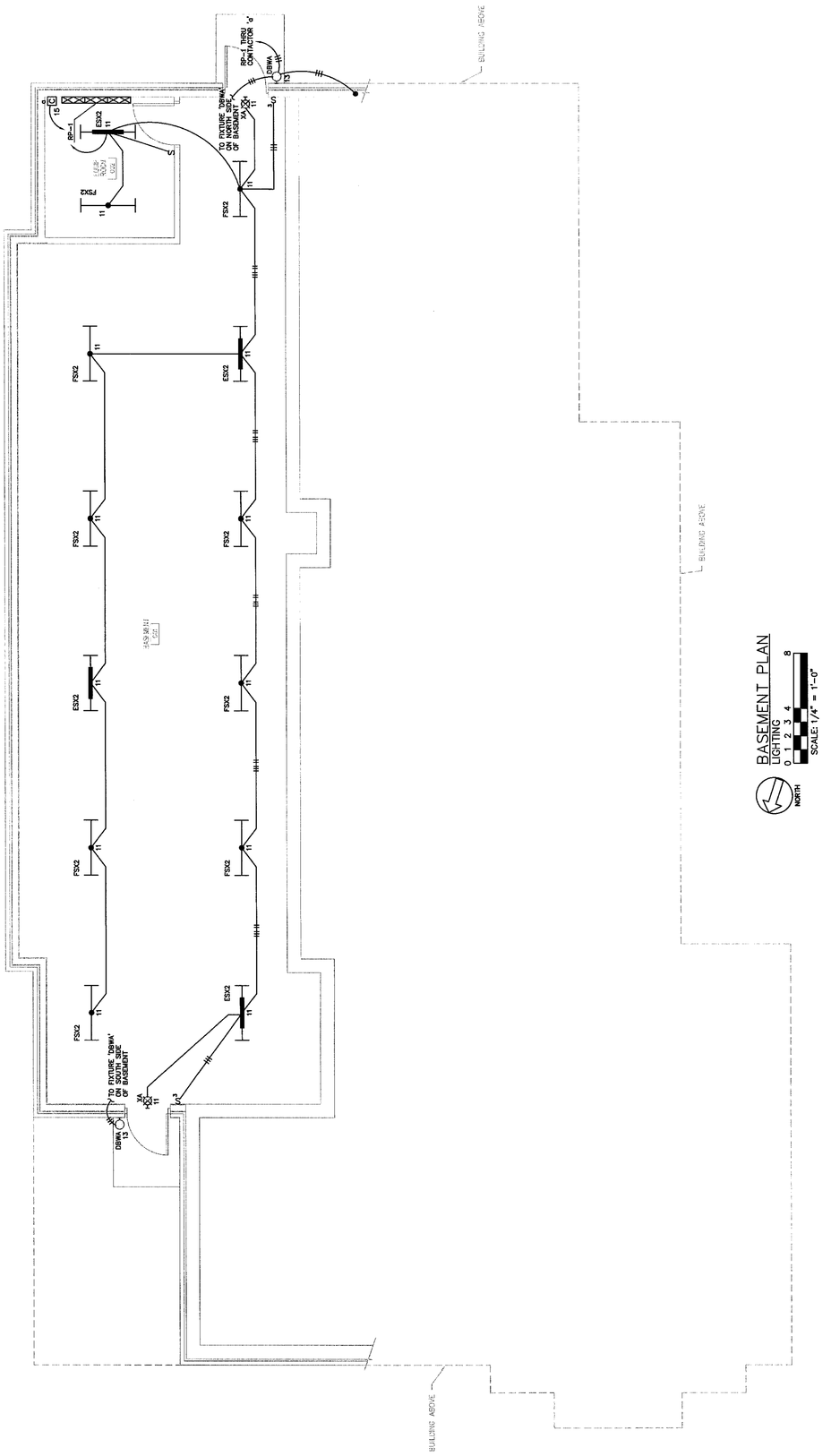
E2 01

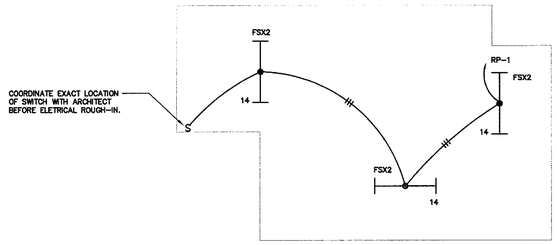


SHEET NO.
PROJECT NO.
DATE

SHEET NO.

PROJECT NO.

DATE

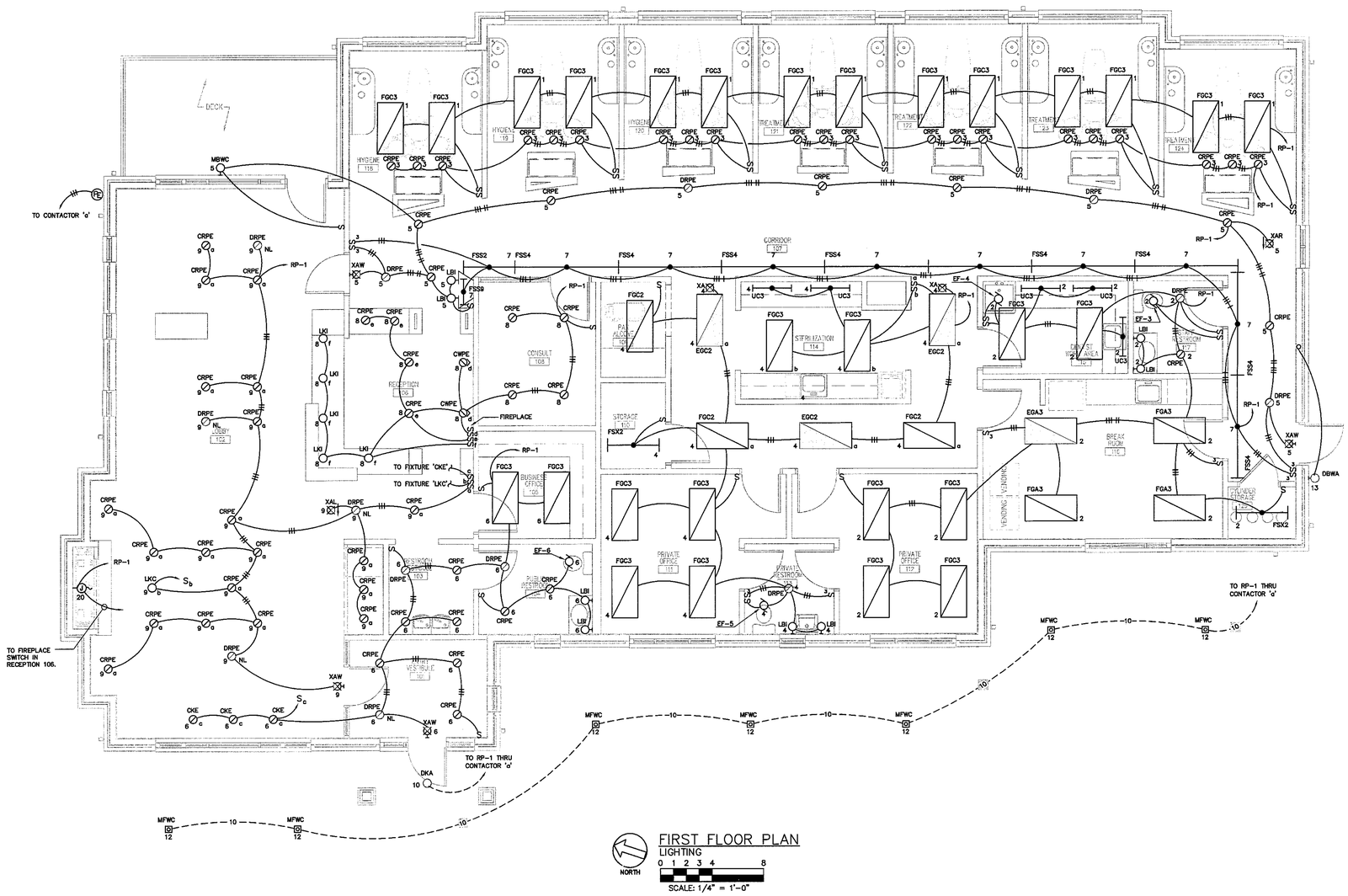


PARTIAL ATTIC FLOOR PLAN
LIGHTING

NORTH

0 1 2 3 4 8

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



FIRST FLOOR PLAN
LIGHTING

NORTH

0 1 2 3 4 8

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

NOTES:

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR FOR EXACT LOCATION OF LIGHTING FIXTURES.
2. NIGHT LIGHTS INDICATED BY "NL" SHALL BE CONNECTED TO HOT LEG OF CIRCUIT FOR CONTINUOUS POWER 24 HOURS.
3. PANEL RP-1 IS LOCATED ON THE BASEMENT FLOOR. SEE SHEET E201 FOR EXACT LOCATION.

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SHEET TITLE: FIRST FLOOR PLAN LIGHTING

SCALE: AS NOTED

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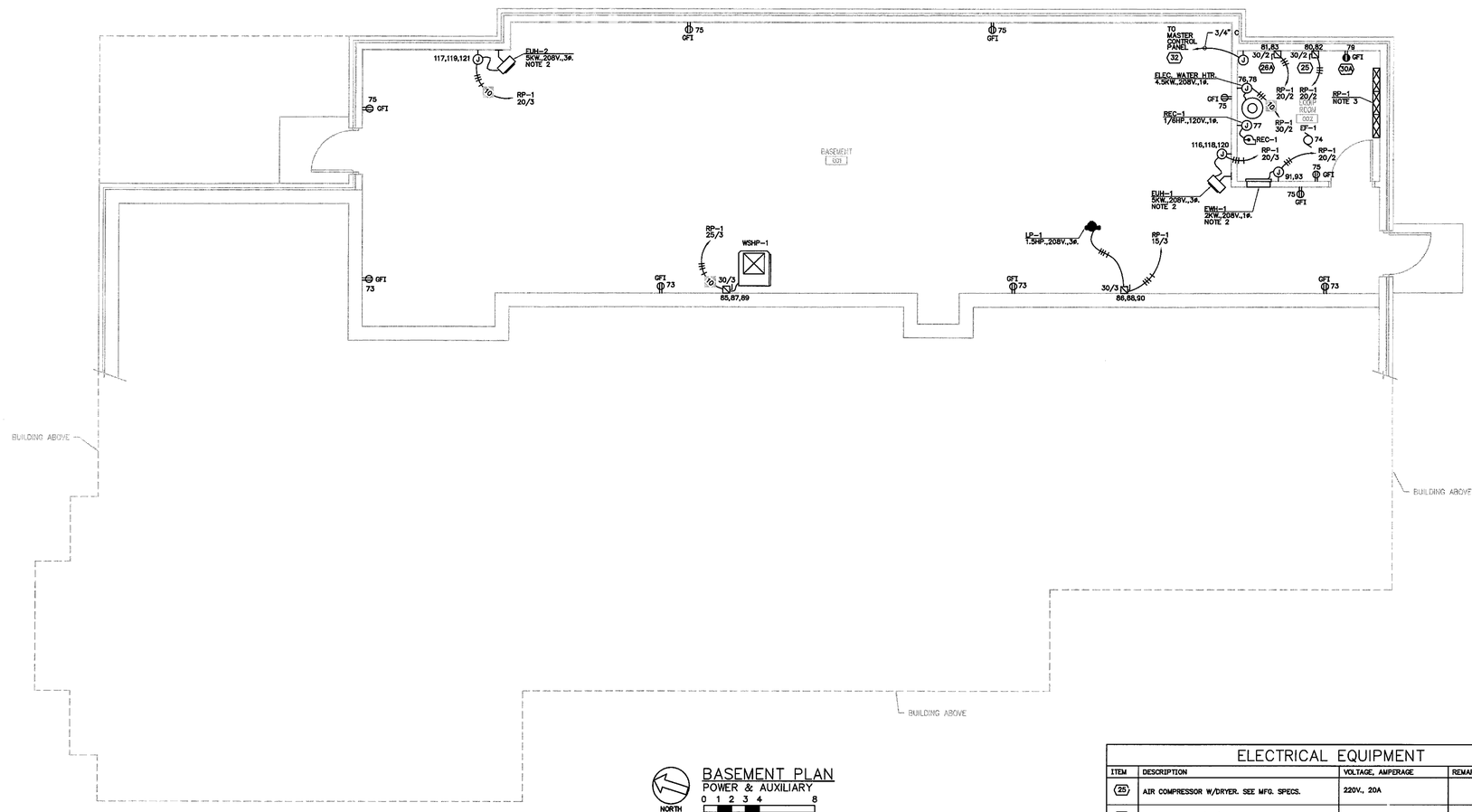
E2
02

SHEET NO.

PROJECT NO.

DATE



NORTH

BASEMENT PLAN
POWER & AUXILIARY

0 1 2 3 4 8

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

NOTES:

1. CIRCUIT DEVICES TO PANELBOARD "RP-1" UNLESS OTHER WISE NOTED. CIRCUIT NUMBER TO THE PANELS ARE SHOWN NEXT TO THE DEVICE. PROVIDE 2 #12 & 1 #12(G)-3/4" C TO EACH CIRCUIT NUMBER INDICATED. UP TO 3-20 AMP CIRCUITS PER 3/4" CONDUIT IS ACCEPTABLE. INCREASE WIRE SIZE TO #10 AWG ON ANY CIRCUIT RUN OVER 100 FEET. INCREASE CONDUIT SIZE TO 1" CONDUIT WHEN #10 AWG WIRE IS USED.
2. DISCONNECT BY DIVISION 15000.
3. COORDINATE WITH EQUIPMENT IN ROOM TO MAINTAIN 3 FOOT CLEARANCE IN FRONT OF PANEL RP-1.

ELECTRICAL EQUIPMENT

ITEM	DESCRIPTION	VOLTAGE, AMPERAGE	REMARKS
25	AIR COMPRESSOR W/DRYER. SEE MFG. SPECS.	220V., 20A	
26A	VACUUM SYSTEM (WET). SEE MFG. SPECS.	220V.	
30A	WATER SOLENOID W/FILTER.		LOCATE WALL OUTLET WITHIN 5' OF WATER FILTER BYPASS.

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REGISTERED
No. 24441
PROFESSIONAL
ENGINEER
PHILIP GRATTON
11/21/08

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PATRICK DAVIS DENTAL OFFICE
1771 NORTH LOOP
TUSCALOOSA, ALABAMA

6504A

ISSUE DATE
11/25/08

CURRENT DATE
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REVISIONS

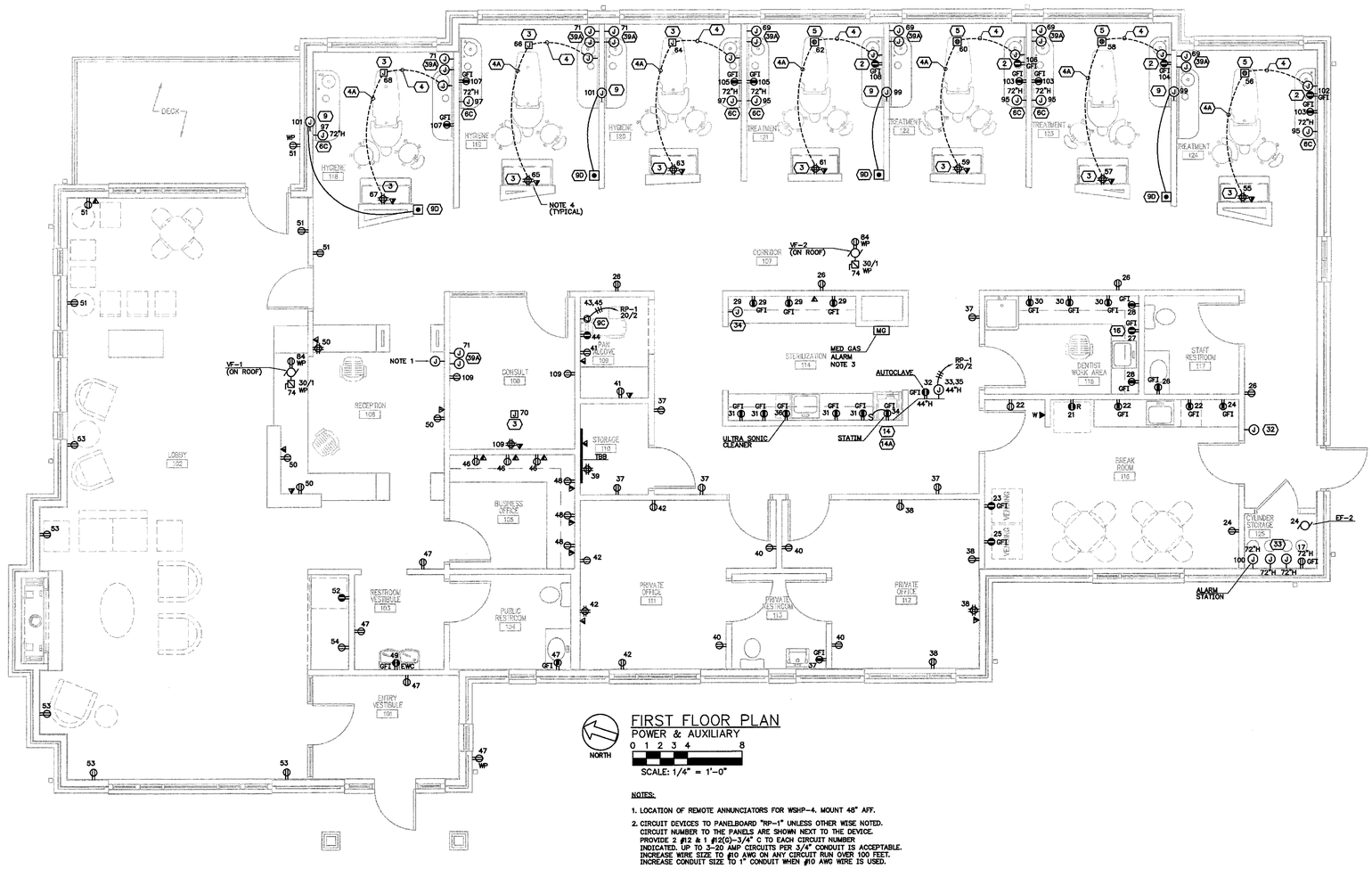
SHEET TITLE
BASEMENT PLAN
POWER & AUXILIARY

SCALE: AS NOTED

DRAWN BY

E3
01

SHEET NO.	
PROJECT NO.	
DATE	



NORTH

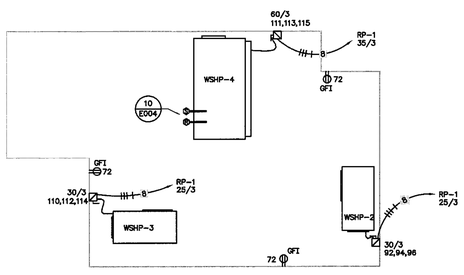
FIRST FLOOR PLAN
POWER & AUXILIARY

0 1 2 3 4 8

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

NOTES:

1. LOCATION OF REMOTE ANNUNCIATORS FOR WSHP-4. MOUNT 48" AFF.
2. CIRCUIT DEVICES TO PANELBOARD "RP-1" UNLESS OTHER WISE NOTED. CIRCUIT NUMBER TO THE PANELS ARE SHOWN NEXT TO THE DEVICE. PROVIDE 2 #12 & 1 #12(G)-3/4" C TO EACH CIRCUIT NUMBER INDICATED. UP TO 3-20 AMP CIRCUITS PER 3/4" CONDUIT IS ACCEPTABLE. INCREASE WIRE SIZE TO #10 AWG ON ANY CIRCUIT RUN OVER 100 FEET. INCREASE CONDUIT SIZE TO 1" CONDUIT WHEN #10 AWG WIRE IS USED.
3. PROVIDE (1)-1" C FROM MED GAS ALARM TO CYLINDER STORAGE #125 AND EQUIPMENT ROOOM #002.
4. COORDINATE RECEPTACLE AND VOICE/DATA BOX WITH MILLWORK.



NORTH

MEZZANINE PLAN
POWER & AUXILIARY

0 1 2 3 4 8

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

ELECTRICAL EQUIPMENT

ITEM	DESCRIPTION	VOLTAGE, AMPERAGE	REMARKS
(2)	UTILITY CENTER	115V., 20A	
(3)	UTILITY CENTER	115V., 20A	
(4)	1-1/2"C FOR FOOT CONTROL WITH PULL STRING FROM DENTAL CHAIR LOCATION TO #1, #2, #2A, #3 AND/OR #3A. ELECTRICIAN TO INSTALL.		
(4A)	2"C FOR FOOT CONTROL WITH PULL STRING FROM DENTAL CHAIR LOCATION TO #1, #2, #2A, #3 AND/OR #3A. ELECTRICIAN TO INSTALL.		
(5)	DENTAL CHAIR RECEPTACLE - SUPPLIED AND INSTALLED BY ELECTRICIAN. EXACT LOCATION TO BE SPOTTED BY HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST.	115V., 3A	
(6C)	DENTAL LIGHT (WALL MOUNTED). REQUIRES MOUNTING SUPPORT. VERIFY EXACT LOCATION WITH DOCTOR AND EQUIPMENT REPRESENTATIVE.	115V., 3A	
(9)	INTRAORAL X-RAY (SELF-CONTAINED).	115V., 20A	
(9C)	PANORAMIC AND/OR CEPHALOMETRIC X-RAY/CONE BEAM.	110V./220V., 20A	
(9D)	X-RAY REMOTED MOMENTARY CONTACT EXPOSURE BUTTON - SUPPLIED BY HENRY SCHEIN DENTAL, INSTALLED BY ELEC. CONNECT WIRES TO MASTER CTRL.		PROVIDE 14/3 AWG FROM BOTTOM TO X-RAY IN 1/2"C. BUTTON 60"AFF.
(14)	STERILIZER (STATIM)	115V., 15A, 60HZ.	
(14A)	STERILIZER (AUTO-CLAVE)	115V./220V., 20A	
(14C)	STERI-CENTER UTILITIES - STERI-CENTER SUPPLIED & INSTALLED BY (HSD). CONTRACTOR TO INSTALL REQUIRED UTILITY HOOKUPS PER MFG. SPECS.	SEE MFG. SPECS.	
(16)	MODEL TRIMMER	115V.	VERIFY EXACT LOCATION.
(32)	REMOTE PANEL (AIR, WATER & VAC) - SUPPLIED BY (HSD), INSTALLED BY CONTRACTOR 60"A.F.F.		PROVIDE STANDARD 3 GANG JUNCTION BOX (2-1/8"D. X 4"H. X 5-3/4"W.) RUN 18/2 BELL WIRE FROM UNITS TO MASTER CONTROL PANEL.
(33)	NITROUS OXIDE & OXYGEN MANIFOLD SYSTEM.	115V., 1.5A	
(34)	NITROUS OXIDE & OXYGEN ALARM SYSTEM.	115V., 1.5A	
(59A)	MONITOR : SEE CUSTOMER AND (HSD) EQUIPMENT SPECIALIST FOR EXACT LOCATION.	115V., 1.5A	(1) 2" X 4" POWER JUNCTION BOX. 78"AFF. (1) 2" X 4" JUNCTION BOX W/ 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. 78"AFF.

C·R·S
Engineering and Design Consultants
3504 7th Avenue South
Birmingham AL 35222
P:205-595-5979 F:205-595-5751
web: www.crsegr.com

Job No. 07433.09
Dwg File: 07433P01.DWG
Plot Date: 11/24/08-04:04

Karlaberger Architecture Inc.
2500 Seventh Avenue S. Birmingham, AL 35233-3318 • 205/252-4191 •

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ALABAMA REGISTERED PROFESSIONAL ENGINEER PHILIP GRATTON 11/24/08

NEW CONSTRUCTION PATRICK DAVIS DENTAL OFFICE

1771 NORTH LOOP . TUSCALOOSA, ALABAMA

6504A

ISSUE DATE 11/25/08

CURRENT DATE 11/25/08

REVISIONS

SHEET TITLE
FIRST FLOOR PLAN
POWER & AUXILIARY

SCALE: AS NOTED

DRAWN BY

E3
02

HENRY SCHEIN®

DENTAL

DR. PATRICK DAVIS

PRESENTED BY: JIM SMITHEY, HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST

GENERAL NOTES & CONDITIONS (ALL TRADES)

1.) EQUIPMENT SPECIALIST

(A) DEFINITION

"EQUIPMENT SPECIALISTS" ARE REFERRED TO AS THE TECHNICALLY TRAINED SPECIALIST WHO DUE TO THEIR UNIQUE EXPERTISE IN THE FIELD HAVE ASSISTED THE OWNER IN THE PREPARATION OF DRAWINGS AND SPECIFICATIONS IN THE CONSTRUCTION OF THE PROPOSED FACILITIES.

(B) DRAWINGS

THESE DIAGRAMS ARE NOT AN ARCHITECTURAL PLAN. THESE DIAGRAMS DO NOT INCLUDE ALL OF THE REQUIREMENTS THAT MAY BE NECESSARY FOR AN ARCHITECT TO PROVIDE YOU WITH THE COMPLETE ARCHITECTURAL PLANS. HENRY SCHEIN DENTAL'S DIAGRAMS MAY NOT BE SUBMITTED AS FINISHED ARCHITECTURAL DRAWINGS FOR THE PURPOSE OF OBTAINING A BUILDING PERMIT. IF YOU SHOULD CHOOSE TO USE HENRY SCHEIN DENTAL'S DIAGRAM IN THE PLACEMENT OF YOUR EQUIPMENT, YOU SHOULD RETAIN A REGISTERED ARCHITECT TO CONVERT THE DIAGRAM INTO PROPER AND COMPLETE ARCHITECTURAL PLANS. HENRY SCHEIN WILL WORK WITH THE ARCHITECT YOU SELECT TO DEVELOP COMPLETE ARCHITECTURAL PLANS. THE DRAWINGS AND ALL THE INFORMATION THEREIN ARE THE SOLE PROPERTY OF HENRY SCHEIN AND ARE SUBMITTED CONFIDENTIALLY, SUBJECT TO RETURN UPON REQUEST. THEY MAY NOT BE USED FOR REPRODUCTION WITHOUT THE EXPRESSED WRITTEN CONSENT OF HENRY SCHEIN.

(C) CONSTRUCTION

THE EQUIPMENT SPECIALIST WILL BE AVAILABLE TO ASSIST THE CONTRACTOR(S) AND THE OWNER IN THE INTERPRETATION OF DRAWINGS AND SPECIFICATIONS.

THEY WILL NOT BE RESPONSIBLE FOR ANY UNFORESEEN CONDITIONS ARISING OUT OF OR DURING THE COURSE OF CONSTRUCTION NOR FOR ANY DEVIATIONS FROM DRAWINGS AND/OR SPECIFICATIONS WITHOUT THEIR WRITTEN ENDORSEMENT.

2.) HENRY SCHEIN DENTAL

(A) DEFINITION

"HENRY SCHEIN DENTAL" IS REFERRED TO AS THE EQUIPMENT SUPPLIER ENGAGED BY THE OWNER UNDER A SEPARATE CONTRACT.

(B) CONSTRUCTION

HENRY SCHEIN DENTAL WILL ISSUE DETAIL (SHOP) DRAWINGS SHOWING CRITICAL LOCATIONS OF ALL DENTAL AND ALLIED EQUIPMENT. HENRY SCHEIN DENTAL'S REPRESENTATIVE WILL BE AVAILABLE FOR PERIODIC FIELD VISITS. VISITS WILL BE LIMITED TO A PRE-CONSTRUCTION ON JOB MEETING, LAYOUT CHECKS AND INSTRUCTIONS TO THE VARIOUS TRADES IN THE CRITICAL ASPECTS OF THE WORK PERTAINING TO DENTAL AND ALLIED EQUIPMENT. ALL REQUESTS FOR FIELD VISITS SHALL ALLOW REASONABLE ADVANCED NOTICE. HENRY SCHEIN DENTAL WILL NOT ASSUME ANY RESPONSIBILITIES FOR DEVIATIONS FROM DETAIL DRAWINGS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN ENDORSEMENT.

DURING CONSTRUCTION, HENRY SCHEIN WILL PERIODICALLY CHECK THE JOB. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE PLUMBING, WIRING, AND WOOD BACKING CHECKED BEFORE POURING SLABS, SEALING PARTITIONS, AND CEILING.

(C) EQUIPMENT INSTALLATION

A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE GENERAL CONTRACTOR, PLUMBER, ELECTRICIAN, CABINET MAKER, AND HENRY SCHEIN DENTAL. ALL TEMPLATES CRITICAL TO EQUIPMENT INSTALLATION WILL BE DISTRIBUTED AT THIS MEETING.

THE HENRY SCHEIN DENTAL REPRESENTATIVE WILL INSPECT PREMISES PRIOR TO THE INSTALLATION OF ITS EQUIPMENT AT WHICH TIME ALL FINISHES (CEILINGS, FLOORING, PAINTING, AND DECORATING) AND MECHANICAL WORK MUST BE COMPLETED. RESPONSIBILITIES FOR THE INSTALLATION AND/OR HOOKUP OF DENTAL EQUIPMENT WILL BE DEFINED IN THE SPECIFICATIONS FOR EACH TRADE.

HENRY SCHEIN DENTAL WILL REQUIRE THAT ALL APPLICABLE TRADES BE REPRESENTED AT THE TIME OF INSTALLATION.

(C) EQUIPMENT INSTALLATION (CONTINUED)

THE CONTRACTOR IS TO INCLUDE THE FINAL HOOKUP TO ALL DENTAL EQUIPMENT. THE INSTALLATION DATE TO BE COORDINATED WITH HENRY SCHEIN DENTAL.

3.) CONTRACTOR

(A) DEFINITION

THE "CONTRACTOR" IS REFERRED TO AS THE PERSON(S) OR ENTITY WHO HAS ENTERED INTO A CONTRACTUAL AGREEMENT WITH THE OWNER FOR THE WORK DEFINED IN SUCH AGREEMENT. IF THE ENTIRE CONSTRUCTION OF THE PREMISES IS LET UNDER A SINGLE CONTRACT, THE CONTRACTOR MAY BE REFERRED TO AS THE GENERAL CONTRACTOR.

IF THE CONSTRUCTION OF THE PROJECT IS LET UNDER SEPARATE CONTRACTS, THE RESPONSIBILITIES STIPULATED BELOW SHALL APPLY TO EACH CONTRACTOR.

(B) RESPONSIBILITIES

CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE EXECUTION OF THIS WORK IN ACCORDANCE WITH THE TRUE INTENT OF THE DRAWINGS AND SPECIFICATIONS WHICH IS IN EFFECT, A COMPLETE FIRST CLASS JOB, AND TO FURNISH ALL LABOR AND MATERIALS REQUIRED THEREOF, WHETHER OR NOT EACH AND EVERY ITEM IS SPECIFICALLY MENTIONED.

THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE DRAWINGS, SPECIFICATIONS, AND CONDITIONS COVERING THIS JOB. THE CONTRACTOR SHALL ADVISE THE OWNER AND AGENT OF ANY CONFLICT BETWEEN THESE DRAWINGS AND THE FIELD CONDITIONS BEFORE PROCEEDING WITH THE JOB.

THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND CITY LAWS, ORDINANCES, RULES, AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION, AND SHALL FILE ALL NECESSARY APPLICATIONS AND OBTAIN AND PAY FOR ALL PERMITS, AND CERTIFICATES OF APPROVAL PERTAINING TO THE CONSTRUCTION OF THE PREMISES, EXCEPT OTHERWISE STATED. PERMITS OBTAINED SHALL INCLUDE THE CONNECTION TO ALL DENTAL EQUIPMENT AND FIXTURES.

ALL MEASUREMENTS SHALL BE CHECKED AT THE JOB SITE.

THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THE ACCURACY OF FIELD MEASUREMENTS AND CONDITIONS AND SHALL BE RESPONSIBLE FOR THE PROPER MODIFICATIONS TO ANY EXISTING WORK, PREVIOUSLY INSTALLED WORK AND/OR OTHER TRADES. WRITTEN APPROVAL MUST BE OBTAINED FROM THE EQUIPMENT SPECIALIST BEFORE ANY CHANGES AND/OR DEVIATIONS FROM DRAWINGS AND SPECIFICATIONS ARE MADE.

THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE EXECUTION OF HIS/HER WORK AND FOR ANY CHANGES AND/OR DEVIATIONS FROM DRAWINGS OR SPECIFICATIONS MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER AND/OR THE OWNER'S EQUIPMENT SPECIALIST. THE COST OF CORRECTIONS RESULTING FROM CHANGES AND/OR DEVIATIONS SHALL BE BORNE BY THE CONTRACTOR.

A COMPLETE SET OF DRAWINGS MUST BE KEPT AT THE JOB SITE AT ALL TIMES AND ANY CHANGES MUST BE NOTED THEREON AND INITIALED.

THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE OWNER'S CONSULTANT FROM AND AGAINST ALL CLAIMS FOR DAMAGE TO PERSON AND/OR PROPERTY SUFFERED AS A RESULT OF THE PERFORMANCE OF WORK, WHETHER OR NOT, CAUSED BY NEGLIGENCE, AND ANY EXPENSES (INCLUDING, WITHOUT LIMITATIONS, ATTORNEYS FEES, AND DISBURSEMENTS) INCURRED IN THE CONNECTION THEREWITH.

(C) OTHER REQUIREMENTS

THE CONTRACTOR SHALL PARTICIPATE AT JOB COORDINATION MEETINGS WITH HENRY SCHEIN DENTAL AND ENSURE ATTENDANCE OF REPRESENTATIVES OF THE MECHANICAL TRADES.

ALL TRADES SHALL DO THEIR OWN CUTTING. THE GENERAL CONTRACTOR SHALL DO ALL PATCHING TO CONFORM TO MATERIAL, TEXTURE, AND SURFACE ALIGNMENT WITH THE ADJOINING SURFACE AND FINAL TOUCH UP OF ALL FINISHED SURFACES.

THE CONTRACTOR SHALL ENSURE THE PROTECTION OF ALL EQUIPMENT FURNISHED UNDER HIS/HER CONTRACT AND BY OTHERS.

(C) OTHER REQUIREMENTS (CONTINUED)

THE CONTRACTOR SHALL REMOVE DEBRIS AND MAINTAIN THE PREMISES BROOM CLEAN AT ALL TIMES. DEBRIS IS TO INCLUDE, BUT NOT LIMITED TO, SHIPPING CARTONS, BOXES, ETC...RESULTING FROM THE INSTALLATION OF DENTAL AND OTHER EQUIPMENT BY CONTRACTOR(S) CONCURRENTLY ENGAGED.

THE CONTRACTOR IS TO ISSUE A WRITTEN ONE YEAR WARRANTY ON ALL WORK DONE.

4.) OWNER

(A) DEFINITION

THE "OWNER" IS REFERRED TO AS THE PERSON(S) OR ENTITY WHO OWNS OR LEASES THE PREMISES FOR WHICH A CONSTRUCTION AGREEMENT HAS BEEN ENTERED UPON WITH THE CONTRACTOR.

WHERE THE OWNER, AS REFERRED TO ABOVE, LEASES THE PREMISES THE ENTITY WHO HAS OWNERSHIP OF THE PROPERTY WILL BE REFERRED TO AS THE LANDLORD.

THE OWNER WILL COLLABORATE WITH THE CONTRACTOR TO PROTECT ALL MATERIALS AND EQUIPMENT DELIVERED TO THE JOB SITE (INCLUDING DENTAL).

THE OWNER WILL CARRY INSURANCE AS STIPULATED IN THE AGREEMENT WITH THE CONTRACTOR.

5.) SEPARATE CONTRACTS

THE OWNER RESERVES THE RIGHT TO PERFORM WORK RELATED TO THE PROJECT WITH HIS OWN FORCES, AND TO AWARD SEPARATE CONTRACTS IN CONNECTION WITH OTHER PORTIONS OF THE PROJECT OR OTHER WORK ON SITE UNDER THESE OR SIMILAR CONDITIONS OF CONTRACT. IF THE CONTRACTOR CLAIMS THAT DELAY OR ADDITIONAL COST IS INVOLVED BECAUSE OF SUCH ACTION BY THE OWNER, HE SHALL MAKE SURE CLAIM IS AS PROVIDED ELSEWHERE IN THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL AFFORD THE OWNER AND SEPARATE CONTRACTORS REASONABLE OPPORTUNITY FOR THE INTRODUCTION AND STORAGE OF THEIR MATERIALS AND EQUIPMENT AND THE EXECUTION OF THEIR WORK, AND SHALL CONNECT AND COORDINATE THEIR WORK WITH OTHERS AS REQUIRED BY THE CONTRACT DOCUMENTS. ANY COSTS CAUSED BY DEFECTIVE AND/OR ILL-TIME WORK SHALL BE BORNE BY THE PARTY RESPONSIBLE THEREFORE.

GENERAL NOTES

1. ALL PLUMBING AND ELECTRICAL LINES TO BE CONCEALED UNLESS OTHERWISE SPECIFIED.

2. ALL LABOR AND MATERIAL NECESSARY FOR CHANGES IN EXISTING PLUMBING, CARPENTRY, AND ELECTRICAL WORK MUST BE DONE AND SUPPLIED BY THE CONTRACTOR AND IS NOT INCLUDED IN THE COST OF EQUIPMENT.

3. THE CONTRACTOR SHALL REMOVE RUBBISH AND DO ALL PATCHING AFTER ROUGHING IN IS COMPLETED.

4. ROUGH-IN AND FINISH WORK FOR DENTAL EQUIPMENT IS TO BE ACCORDING TO TEMPLATES FURNISHED BY THE MANUFACTURERS OF EQUIPMENT BEING INSTALLED. A REPRESENTATIVE OF HENRY SCHEIN DENTAL WILL POSITION THE TEMPLATES IN THEIR PROPER LOCATIONS, AT WHICH TIME ALL SPECIFICATIONS ON THE PLANS WILL BE EXPLAINED TO THE CONTRACTOR OR SUBCONTRACTOR(S). ALL SPECIFIED SIZES OF PIPES, TUBING, FITTINGS, ETC. MUST BE RIGIDLY FOLLOWED AS WELL AS PROPER HEIGHTS MARKED. ANY INFRACTIONS ON SIZES OR HEIGHTS OF PIPES, TUBING, AND/OR FITTINGS WILL HAVE TO BE CORRECTED BEFORE THE EQUIPMENT CAN BE INSTALLED AND SUCH EXTRA EXPENSE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE SUB.

5. THE DOCTOR SHALL DESIGNATE RESPONSIBILITY FOR PROVIDING AND INSTALLING CABINETS AND LAMINATE COUNTER TOPS (OTHER THAN THOSE SPECIFIED AND/OR CONTRACTED BY HENRY SCHEIN DENTAL).

6. THE DOCTOR SHALL MAKE ARRANGEMENTS FOR INSTALLATION ON NON DENTAL SYSTEMS (SEPARATE CONTRACT) BEFORE WALLS ARE CLOSED.

7. THE CIRCUIT BREAKER BOX SHALL BE LOCATED IN THE SUITE AND CONVENIENTLY ACCESSIBLE. LOCATION TO BE APPROVED BY DOCTOR.

GENERAL NOTES (CONTINUED)

8. THE HENRY SCHEIN DENTAL REPRESENTATIVE SHALL GIVE INSTRUCTION TO THE GENERAL CONTRACTOR ONLY. ALL COMMUNICATIONS AND COORDINATION WITH TRADESMEN SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS PREDETERMINED TO BE OTHERWISE.

9. THE GENERAL CONTRACTOR MUST SIGN THIS SHEET STIPULATING THAT HE/SHE UNDERSTANDS AND WILL COMPLY WITH ALL SPECIFICATIONS BEFORE THE WORK WILL START. A SIGNED COPY OF THE PLANS ARE TO BE RETURNED TO THE DOCTOR AND HENRY SCHEIN DENTAL.

10. HENRY SCHEIN DENTAL WILL ASSEMBLE AND CONNECT TO MECHANICAL SERVICES, AS LOCAL CODE PERMITS, SUCH AS ELECTRICAL, COLD WATER, WASTE, GAS, AIR, AND VACUUM WHICHEVER ARE REQUIRED FOR OPERATION IF THIS ITEM, PROVIDED SUCH MECHANICAL SERVICES ARE SUPPLIED COMPLETELY BY OTHER TRADES AND ARE BROUGHT TO POSITIONS SPECIFIED BY HENRY SCHEIN DENTAL AND ARE SUPPLIED WITH PROPER CONNECTIONS, FITTINGS, AND/OR JUNCTIONS. HENRY SCHEIN DENTAL WILL CONNECT TO SUCH FITTINGS AND/OR JUNCTIONS PROVIDED OUR SERVICE TECHNICIANS ARE PERMITTED TO DO SO BY OTHER TRADES AND ARE NOT PROHIBITED FROM WORKING BY THEIR TRADE UNION AFFILIATION OR LACK OF TRADE UNION AFFILIATION. INSTALLATION PERMITS, IF REQUIRED, SHALL BE OBTAINED BY TRADES WHO PROVIDE THE SERVICE.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROCURING A MED GAS CERTIFIED PLUMBING SUB CONTRACTOR SHOULD THAT SPECIFIC MUNICIPALITY REQUIRE A CERTIFIED MED GAS INSTALLER FOR ANY LEVEL 3 NITROUS OXIDE~OXYGEN CONSCIOUS SEDATION SYSTEMS DETAILED IN THESE PLANS. HENRY SCHEIN DENTAL IS A NITROUS OXIDE SYSTEM END USER COMPONENT SUPPLIER AND DOES NOT MANUFACTURE OR DESIGN ANY OF THESE SYSTEMS. ANY SYSTEM DESIGN SHOWN ON THESE PLANS BY HENRY SCHEIN DENTAL IS TO BE USED AS AN ILLUSTRATION ONLY FOR THE PURPOSE OF LOCATING END USER OUTLET STATIONS, CYLINDER ROOM MANIFOLD, AND ALARM PANEL. THE FINAL TRUNK SYSTEM INSTALLATION SHALL STRICTLY ADHERE TO ONLY MECHANICALLY ENGINEERED DRAWINGS IF SUPPLIED.

12. PLUMBING SUB CONTRACTOR SHALL PROVIDE MED GAS CERTIFICATION IN ACCORDANCE WITH ANY REQUESTS BY THE OWNER, CONTRACTOR, BUILDING DEPT. OR HENRY SCHEIN DENTAL PRIOR TO COMMENCING WORK ON SAID PROJECT WHEN ANY TYPE OF CUSTOMER INSTALLED NITROUS~OXIDE SYSTEM IS BEING INCORPORATED INTO THE CONSTRUCTION PROJECT.

13. ITEMS LISTED IN THIS DATA SCHEDULE ARE INTENDED TO CLARIFY OVERALL GENERAL CONDITIONS FOR A SMOOTH TRANSITION BETWEEN ALL SUBCONTRACTORS, GENERAL CONTRACTOR, EQUIPMENT INSTALLERS AND OWNER FOR FINAL APPROVAL OF ALL WORK PERFORMED BY THE RESPECTIVE TRADES. THESE CONDITIONS ALONG WITH MUCH MORE DETAIL ARE SPECIFIED THROUGHOUT THESE PLANS. IT SHALL BE THE RESPONSIBILITY OF ALL THE RESPECTIVE CONTRACTORS TO READ ALL NOTES AND ILLUSTRATIONS PERTAINING TO THAT TRADE.

14. HENRY SCHEIN DENTAL SHALL NOT BE HELD RESPONSIBLE FOR MULTIMEDIA SYSTEMS SUCH AS ENTERTAINMENT TV'S MONITORS, NETWORK COMPUTER SYSTEMS OR ANY ITEMS NOT SHOWN ON THESE PLANS.

TO THE CONTRACTOR:

ALTHOUGH MOST DENTAL UTILITY AND SPECIFICATION REQUIREMENTS ARE OUTLINED IN THE HENRY SCHEIN DENTAL UTILITY LAYOUTS, QUESTIONS WILL ARISE ON THE JOB SITE. MOST QUESTIONS CAN BE ANSWERED BY TELEPHONE. SOME QUESTIONS AND THE SPOTTING OF SOME UTILITIES MUST BE ACCOMPLISHED AT THE JOB. IN THIS CASE CALL THE BELOW MENTIONED PERSON AND SET UP AN APPOINTMENT TO MEET ON THE THE JOB. ADVANCED NOTICE IS PREFERRED.

IF AN ON THE JOB APPOINTMENT IS REGARDING PLUMBING, IT WOULD ALSO BE HELPFUL TO CHECK WITH THE ELECTRICIAN AND CARPENTER SO THEIR QUESTIONS CAN BE ANSWERED DURING THE SAME APPOINTMENT. THE SAME PROCEDURE CAN BE USED FOR THE ELECTRICAL AND CARPENTRY APPOINTMENTS. WHEN A HENRY SCHEIN DENTAL REPRESENTATIVE IS ON THE JOB, HE/SHE WILL ALSO CHECK THE DENTAL UTILITIES ALREADY IN PLACE FOR POSSIBLE ERROR. ERRORS SHOULD BE CORRECTED AS THE JOB PROCEEDS.

THE MOST IMPORTANT ON THE JOB INSPECTIONS ARE PRIOR TO THE FLOOR BEING POURED AND THE WALLS BEING CLOSED. AT THESE TIMES, ANY REMAINING ERRORS CAN BE FOUND AND CORRECTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALL FOR THIS INSPECTION.

SHEET INDEX

NO.	TITLE
SCV	COVER SHEET
SA.0	DENTAL EQUIPMENT FLOOR PLAN
SA.1	DENTAL EQUIPMENT FLOOR PLAN-BASEMENT LEVEL
SA.2	DENTAL FRAMING DIMENSION & REINFORCEMENT PLAN
SA.3	DENTAL FRAMING CEILING PLAN
SA.4	DENTAL FRAMING NOTES & ILLUSTRATIONS
SPE.0	DENTAL PLUMBING SPECIFICATIONS
SPE.1	DENTAL PLUMBING SPECIFICATIONS-BASEMENT LEVEL
SPE.2	DENTAL ELECTRICAL SPECIFICATIONS
SPE.3	DENTAL ELECTRICAL SPECIFICATIONS-BASEMENT LEVEL
SPE.4	DENTAL PLUMBING/ELECTRICAL NOTES & ILLUSTRATIONS
SPE.5	DENTAL PLUMBING/ELECTRICAL NOTES & ILLUSTRATIONS

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE PLUMBING, WIRING, AND WOOD BRACING INSPECTED BY AN AUTHORIZED HENRY SCHEIN DENTAL REPRESENTATIVE PRIOR TO POURING OF FLOORS OR CLOSING WALLS AND CEILINGS.

CHANGE ORDERS

CO #	DATE	INITIALS	DESCRIPTION OF CHANGE & SPECIAL INSTRUCTION	REFERENCE SHEETS	ADDENDUM

PRIMARY PERSON TO CONTACT FOR THIS PLAN SET IS: _____ TELEPHONE: _____

PRIMARY INSTALLATION TECHNICIAN FOR THIS JOB IS: _____ TELEPHONE: _____

CONTRACTORS APPROVAL: _____ TELEPHONE: _____

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HENRY SCHEIN® DENTAL

PROJECT: **DR. PATRICK DAVIS**

LOCATION:

HENRY SCHEIN REP: JIM SMITHEY
CENTER: BIRMINGHAM, AL
PHONE #: (800) 645-6594

-IMPORTANT NOTE-
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ALL DIMENSIONS ARE SUBJECT TO JOB-SITE VERIFICATION.

DRAWING NAME: DAVIS-F
PROJECT START DATE: 10/06/08
DETAIL START DATE: 10/06/08
DRAWN BY: OTHERS
DETAILED BY: TAS
CHECKED BY: ---

REVISIONS:	
10/17/08	TAS
11/25/08	ISSUED
--/--/--	---
--/--/--	---
--/--/--	---
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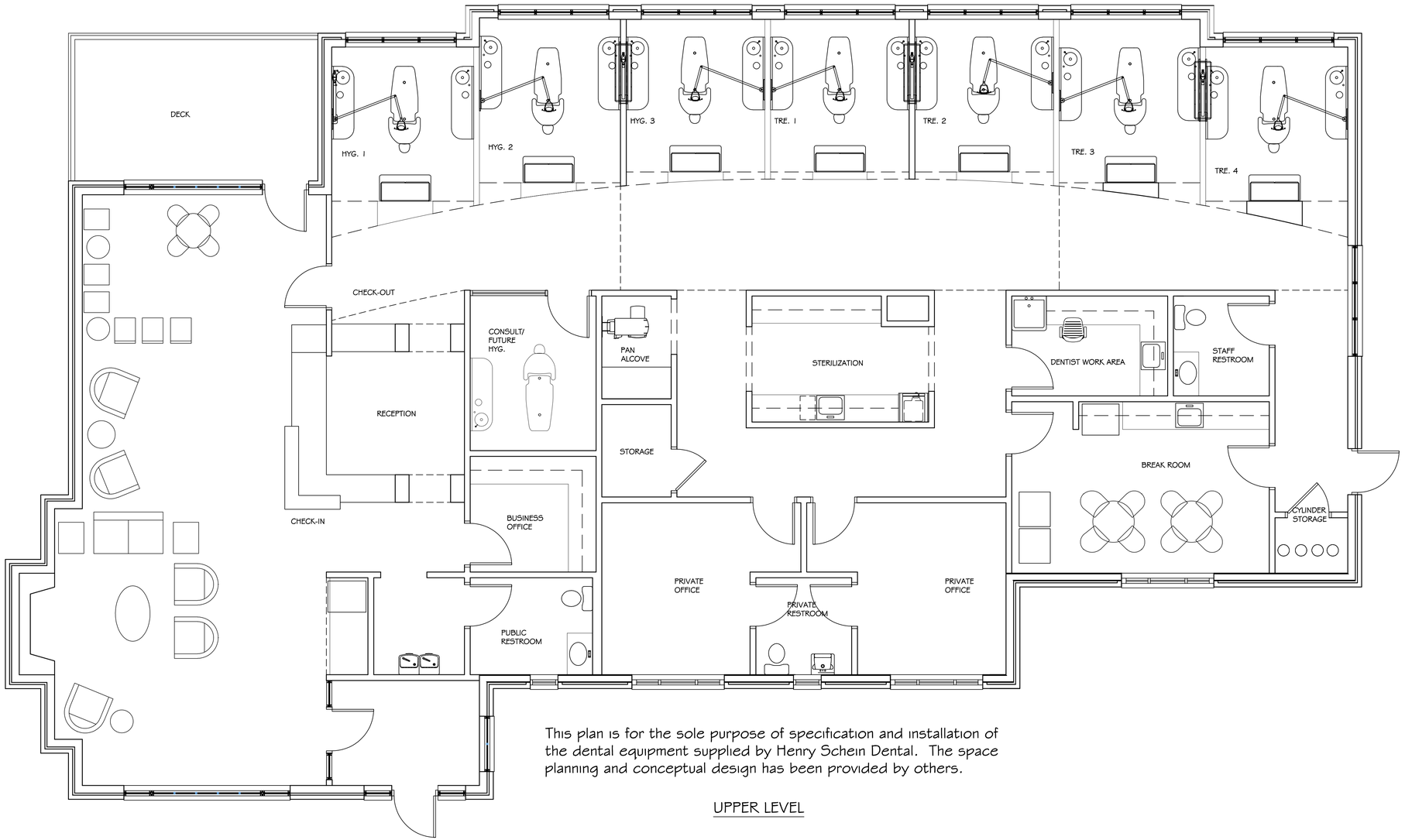
INT.SQ.FT.= --- SF

SCALE: 1/4"= 1'-0" SHT. SIZE: D

COVER SHEET

SCV



This plan is for the sole purpose of specification and installation of the dental equipment supplied by Henry Schein Dental. The space planning and conceptual design has been provided by others.

UPPER LEVEL

PROPOSED DENTAL LAYOUT

1/4"= 1'-0"

HENRY SCHEIN® DENTAL

PROJECT:
DR. PATRICK DAVIS

LOCATION:
-

HENRY SCHEIN REP:
JIM SMITHEY
CENTER:
BIRMINGHAM, AL
PHONE #:
(800) 645-6594

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DRAWING NAME: DAVIS-F
PROJECT START DATE: 10/06/08
DETAIL START DATE: 10/06/08
DRAWN BY: OTHERS
DETAILED BY: TAS
CHECKED BY: ---

REVISIONS:	
10/17/08	TAS
10/20/08	TAS
11/25/08	ISSUED
--/--/--	---
--/--/--	---
--/--/--	---
INT.SQ.FT.=	--- SF

SCALE: 1/4"= 1'-0"
SHT. SIZE: D

FLOOR PLAN

SA.0

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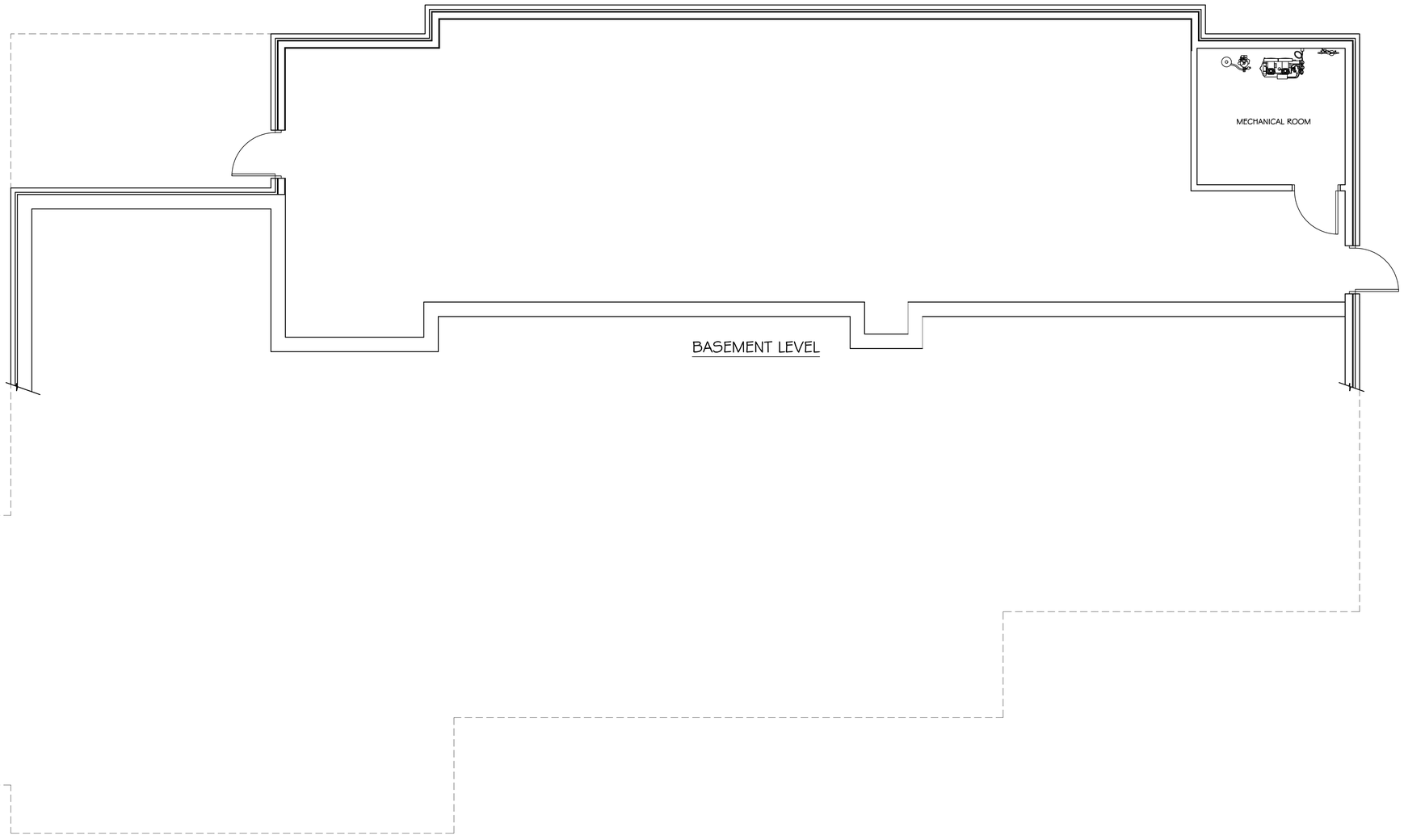

PROPOSED DENTAL LAYOUT

1/4"= 1'-0"

HENRY SCHEIN® DENTAL

PROJECT: **DR. PATRICK DAVIS**

LOCATION: -

HENRY SCHEIN REP:
JIM SMITHEY
CENTER:
BIRMINGHAM, AL
PHONE #:
(800) 645-6594

-IMPORTANT NOTE-
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ALL DIMENSIONS ARE SUBJECT TO JOB-SITE VERIFICATION.

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PROJECT START DATE: 10/06/08
DETAIL START DATE: 10/06/08
DRAWN BY: OTHERS
DETAILED BY: TAS
CHECKED BY: ---

REVISIONS:

10/17/08	TAS
10/20/08	TAS
11/25/08	ISSUED
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INT.SQ.FT.= --- SF

SCALE: 1/4"= 1'-0" | SHT. SIZE: D

BASEMENT LEVEL FLOOR PLAN

SA.1

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REINFORCEMENT SPECIFICATIONS

Quantity	SPEC. NUMBER	DESCRIPTION	MECH. DETAIL	CONS. DETAIL
8	6C	DENTAL LIGHT (WALL MOUNTED) - SEE MFG. SPECS. REQUIRES MOUNTING SUPPORT. VERIFY MOUNTING LOCATION ON-SITE WITH DOCTOR & EQUIPMENT REP.		WL
5	9	INTRAORAL X-RAY (SELF-CONTAINED) - SEE MFG. SPECS. REQUIRES A MECHANICAL GROUND AND MOUNTING SUPPORT.		WD2
1	9C	PANORAMIC AND/OR CEPHALOMETRIC X-RAY/CONE BEAM - SEE MFG. SPECS. REQUIRES A MECHANICAL GROUND.		WD7
8	39A	WALL BLOCKING FOR MONITOR MOUNT - SEE CUSTOMER AND HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST FOR EXACT LOCATION.		39A

CONSTRUCTION NOTES

**VERIFY ALL DIMENSIONS WITH HENRY SCHEIN DENTAL REP. ON JOBSITE. ON SITE MODIFICATIONS MAY NEED TO BE DONE BY CONTRACTOR, BUT SHOULD BE VERIFIED BY ALL PARTIES INVOLVED.

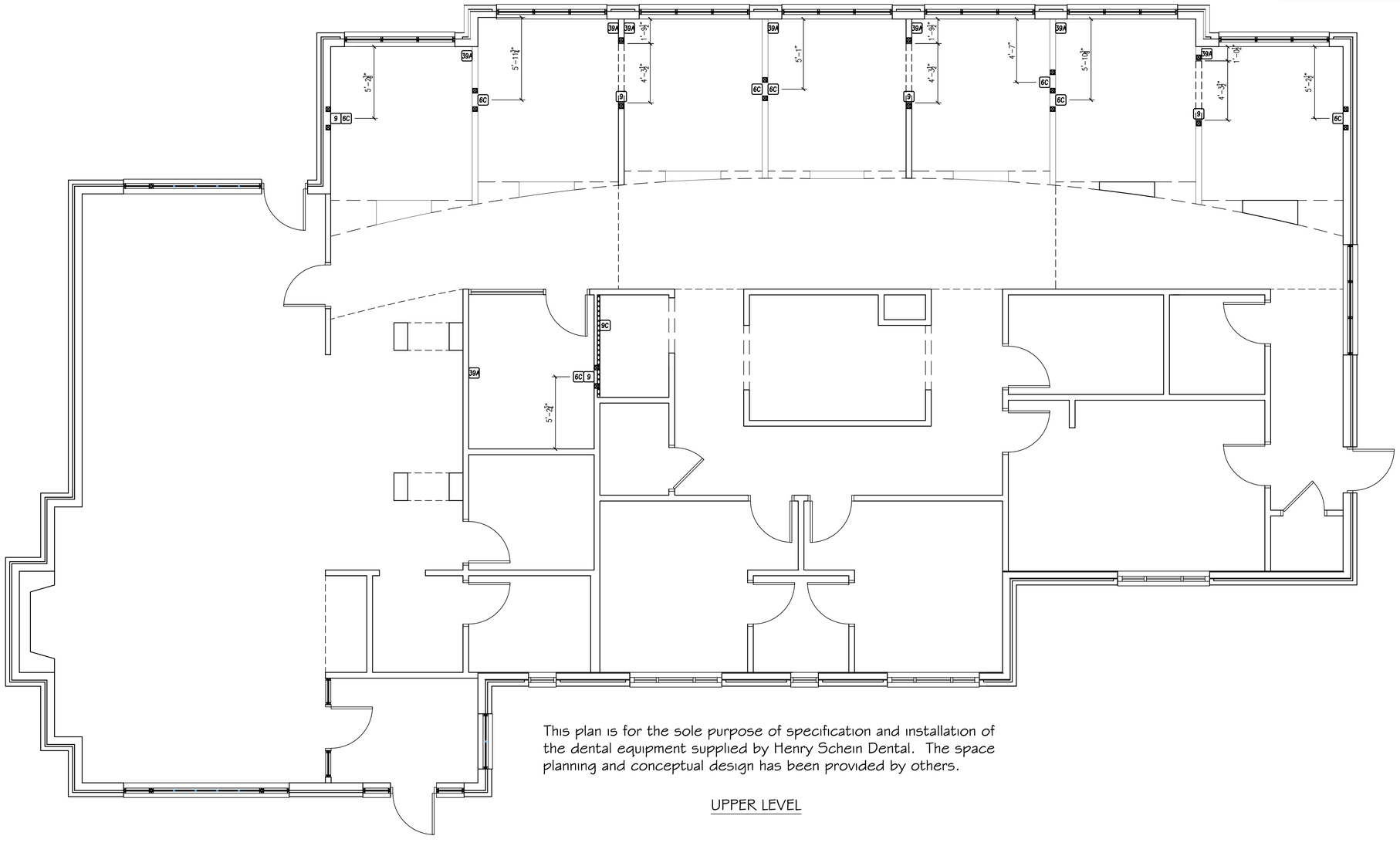
**USE 5/8" GYPSUM WALLBOARD THROUGHOUT THE OFFICE TO PROVIDE EXTRA PROTECTION AGAINST X-RAY SCATTER RADIATION.

WALL LEGEND

NEW WALLS TO BE CONSTRUCTED

NEW REINFORCEMENT PLACED FOR EQUIPMENT. SEE "REINFORCEMENT SPECIFICATION SCHEDULE" THIS SHEET FOR MORE INFORMATION.

SEE SHEET SA.4 FOR ILLUSTRATIONS & DETAILS



This plan is for the sole purpose of specification and installation of the dental equipment supplied by Henry Schein Dental. The space planning and conceptual design has been provided by others.

UPPER LEVEL

PRELIMINARY DIMENSIONS & REINFORCEMENT SPECIFICATIONS

1/4"= 1'-0"

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HENRY SCHEIN® DENTAL

PROJECT: **DR. PATRICK DAVIS**

LOCATION: -

HENRY SCHEIN REP: JIM SMITHEY
CENTER: BIRMINGHAM, AL
PHONE #: (800) 645-6594

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INT.SQ.FT.=	--- SF

SCALE: 1/4"= 1'-0" | SHT. SIZE: D

REINFORCEMENT PLAN

SA.2

CEILING LEGEND

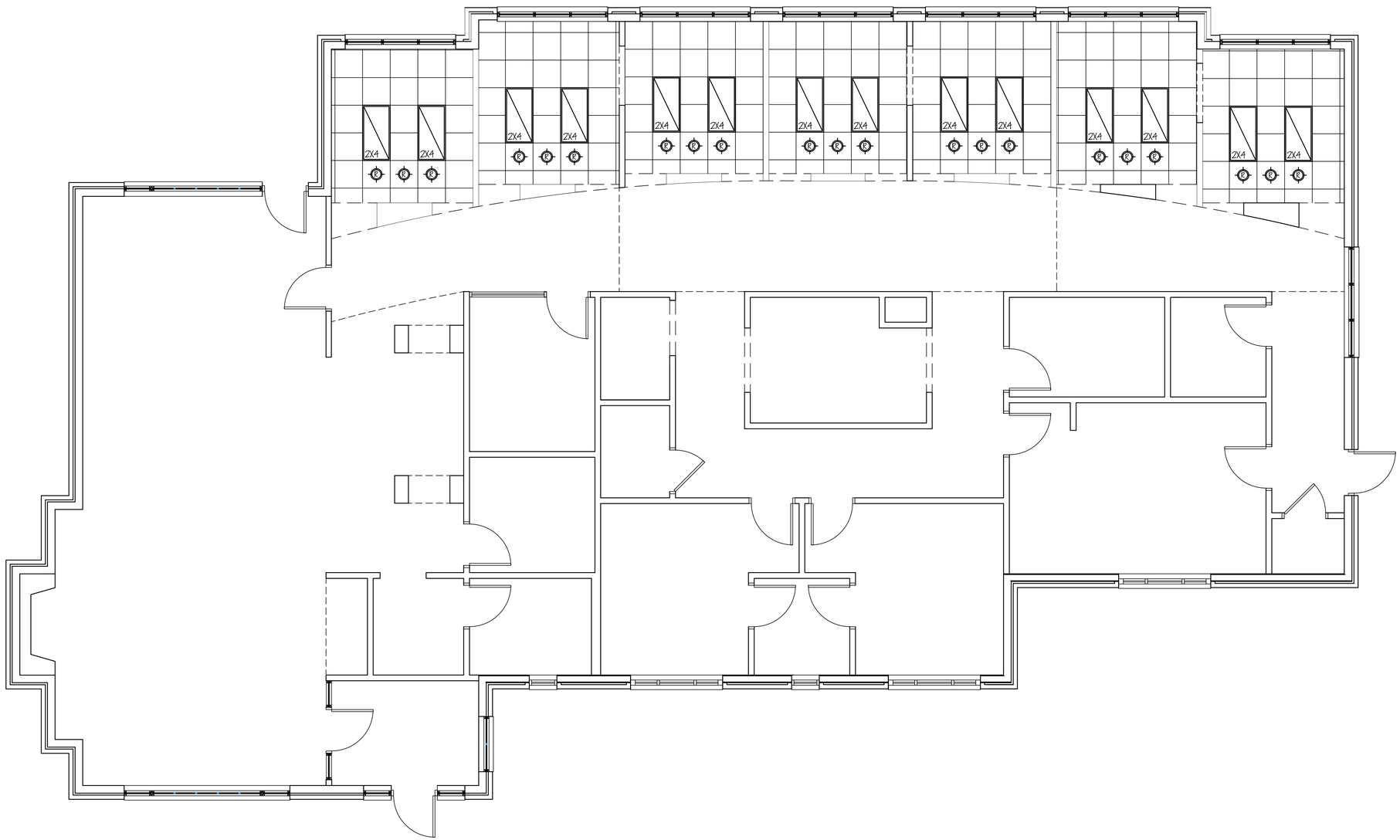
*ALL EXIT AND EMERGENCY LIGHTS ARE THE RESPONSIBILITY OF THE LIGHTING CONTRACTOR AND TO BE INSTALLED PER LOCAL CODE.

*GENERAL SWITCH LOCATIONS AND WIRING TO BE DETERMINED BY LIGHTING CONTRACTOR PER LOCAL CODE AND BE APPROVED BY DOCTOR.

SUSPENDED CEILING GRID

RECESSED LIGHT FIXTURE

2 x 4 RECESSED FLUORESCENT LIGHT FIXTURE



PROPOSED CEILING PLAN

1/4" = 1'-0"

HENRY SCHEIN® DENTAL

PROJECT: **DR. PATRICK DAVIS**

LOCATION: -

HENRY SCHEIN REP: JIM SMITHEY
CENTER: BIRMINGHAM, AL
PHONE #: (800) 645-6594

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SCALE:	SHT. SIZE:
1/4" = 1'-0"	D

CEILING PLAN

SA.3

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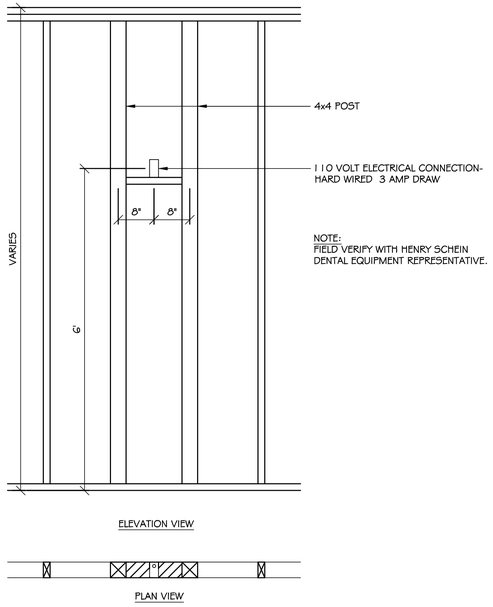
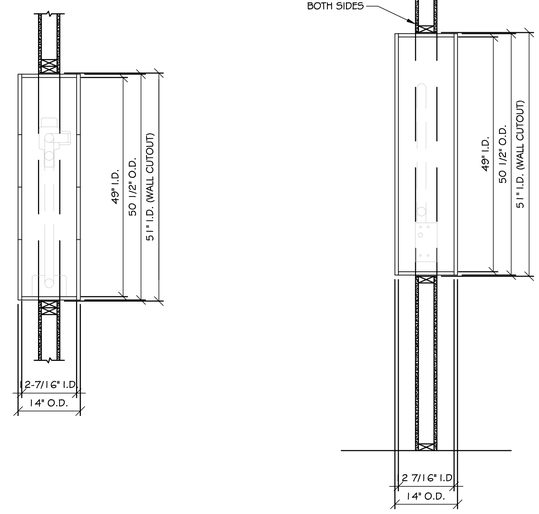


WL TYP. WALL MOUNT LIGHT SUPPORT

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



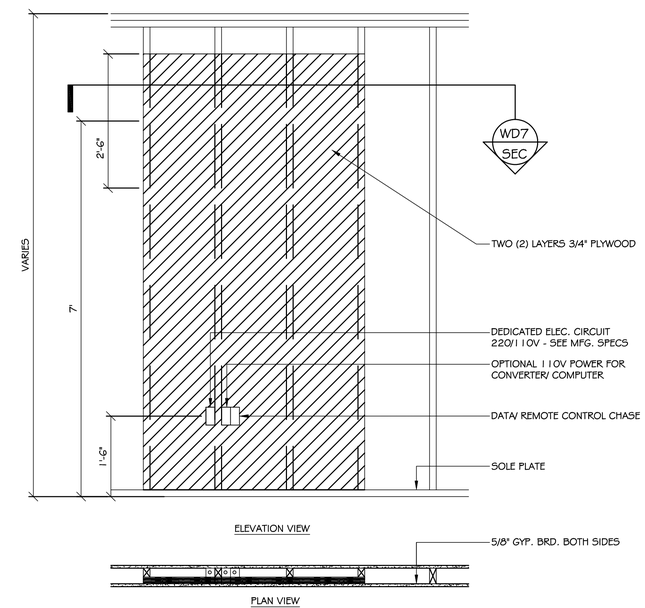
NOTE: SEE MANUFACTURER'S EQUIPMENT SPECIFICATIONS FOR EXACT FRAMING DIMENSIONS. PASS-THRU CABINET HEIGHT ABOVE FINISHED FLOOR VARIES DEPENDING ON X-RAY UNIT.

LOCKS MAY BE REQUIRED ON BI-FOLD DOORS -- SEE LOCAL RADIATION PROTECTION CODE.

IF X-RAY UNIT IS PLACED ABOVE A SIDE CABINET IN THE TREATMENT ROOM, ENSURE THAT MOUNTING HEIGHT ALLOWS BI-FOLD DOORS TO BE OPENED WITHOUT INTERFERING WITH FAUCET OR ITEMS ON COUNTERTOP.

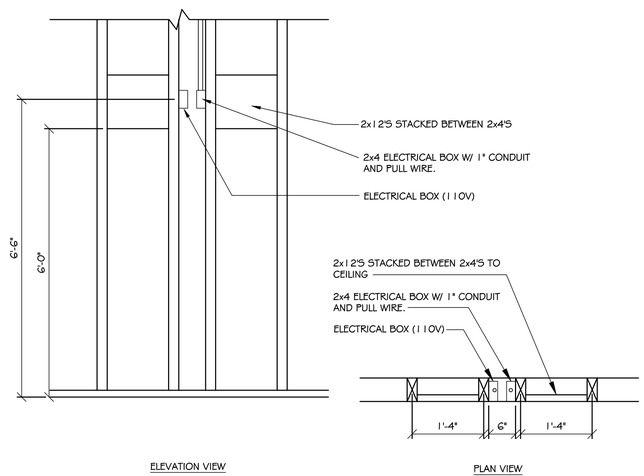
WD-2 X-RAY PASS-THRU CABINET

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



WD7 TYPICAL PANORAMIC BLOCKING

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



D-39A VIDEO MONITOR WALL MOUNT

SCALE:

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HENRY SCHEIN® DENTAL

PROJECT: **DR. PATRICK DAVIS**

LOCATION: -

HENRY SCHEIN REP: JIM SMITHEY
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SCALE: 3/4"= 1'-0" | SHT. SIZE: D

CONSTRUCTION DETAILS

SA.4

PLUMBING SPECIFICATIONS

QUANTITY	SPEC. NUMBER	DESCRIPTION	COLD WATER	HOT WATER	DRAIN	AIR	NATURAL GAS	VACUUM	N2O-O2	OXYGEN	VENT	MECH. DETAIL	CONS. DETAIL
4	2	UTILITY CENTER - SEE MFG. SPECS. BACK FLOW PREVENTION REQUIRED AS PER LOCAL CODE.	•			•						2	
11	3	UTILITY CENTER - SEE MFG. SPECS. BACK FLOW PREVENTION REQUIRED AS PER LOCAL CODE.	•			•		•				3	
4	7	NITROUS OXIDE, OXYGEN, & VACUUM STATION - SEE MFG. SPECS. SUPPLIED BY HENRY SCHEIN DENTAL, INSTALLED BY PLUMBER. SILVER SOLDERED TO TYPE L OR K COPPER LINES, 3/8" OD NITROUS AND 1/2" OD OXYGEN AND VACUUM COMING FROM THE MANIFOLD SYSTEM. EXACT LOCATION TO BE SPOTTED BY HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST.						•	•	•		7	
3	7C	NITROUS OXIDE FLOW METER - SEE MFG. SPECS. SUPPLIED BY HENRY SCHEIN DENTAL, INSTALLED BY PLUMBER. LOCATION SPECIFIED BY HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST.						•	•	•		7C	
2	13	AIR VALVE - SUPPLIED AND INSTALLED BY PLUMBER. 3/8" NPT COUPLING. SEE MFG. SPECS.				•						13	

PLUMBING SPECIFICATIONS

QUANTITY	SPEC. NUMBER	DESCRIPTION	COLD WATER	HOT WATER	DRAIN	AIR	NATURAL GAS	VACUUM	N2O-O2	OXYGEN	VENT	MECH. DETAIL	CONS. DETAIL
1	14C	STERI-CENTER UTILITIES - STERI-CENTER SUPPLIED AND INSTALLED BY HENRY SCHEIN DENTAL. CONTRACTOR TO INSTALL REQUIRED UTILITY HOOKUPS PER MFG. SPECS.	•	•	•	•		•			•		
1	16	MODEL TRIMMER - SEE MFG. SPECS. PLUMBER TO INSTALL CHROME ANGLE STOP WITH 1/4" COPPER FPT OUTLET. BACK FLOW PREVENTION PER CODE.	•		•							17	
1	17	PLASTER TRAP - SEE MFG. SPECS. SUPPLIED BY HENRY SCHEIN DENTAL, INSTALLED BY PLUMBER ON SINK WASTE LINE.			•							17	
2	28	VACUUM INLET - 1/2" COPPER. VERIFY HEIGHT AND LOCATION WITH HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST.						•					
1	33	NITROUS OXIDE & OXYGEN MANIFOLD SYSTEM - SEE MFG. SPECS. SUPPLIED BY HENRY SCHEIN DENTAL, INSTALLED BY PLUMBER. REQUIRES L OR K COPPER LINES, SILVER SOLDERED TO TRUNK LINES RUNNING TO EACH TREATMENT ROOM. PRESSURE TESTED WITH DRY NITROGEN TO 150 PSI FOR 24 HOURS BY PLUMBER.							•	•	•	33, N2O	

GENERAL NOTES

*A HENRY SCHEIN DENTAL REPRESENTATIVE WILL SPOT ALL EXACT EQUIPMENT LOCATIONS ON THE JOB.

*THIS SPECIFICATION SHEET IS INTENDED AS A GUIDE FOR TRADESMEN. THE FLOOR PLANS ENCLOSED HEREIN ARE SUGGESTIONS FOR THE PLACEMENT OF DENTAL EQUIPMENT. THEY ARE NOT INTENDED FOR CONSTRUCTION.

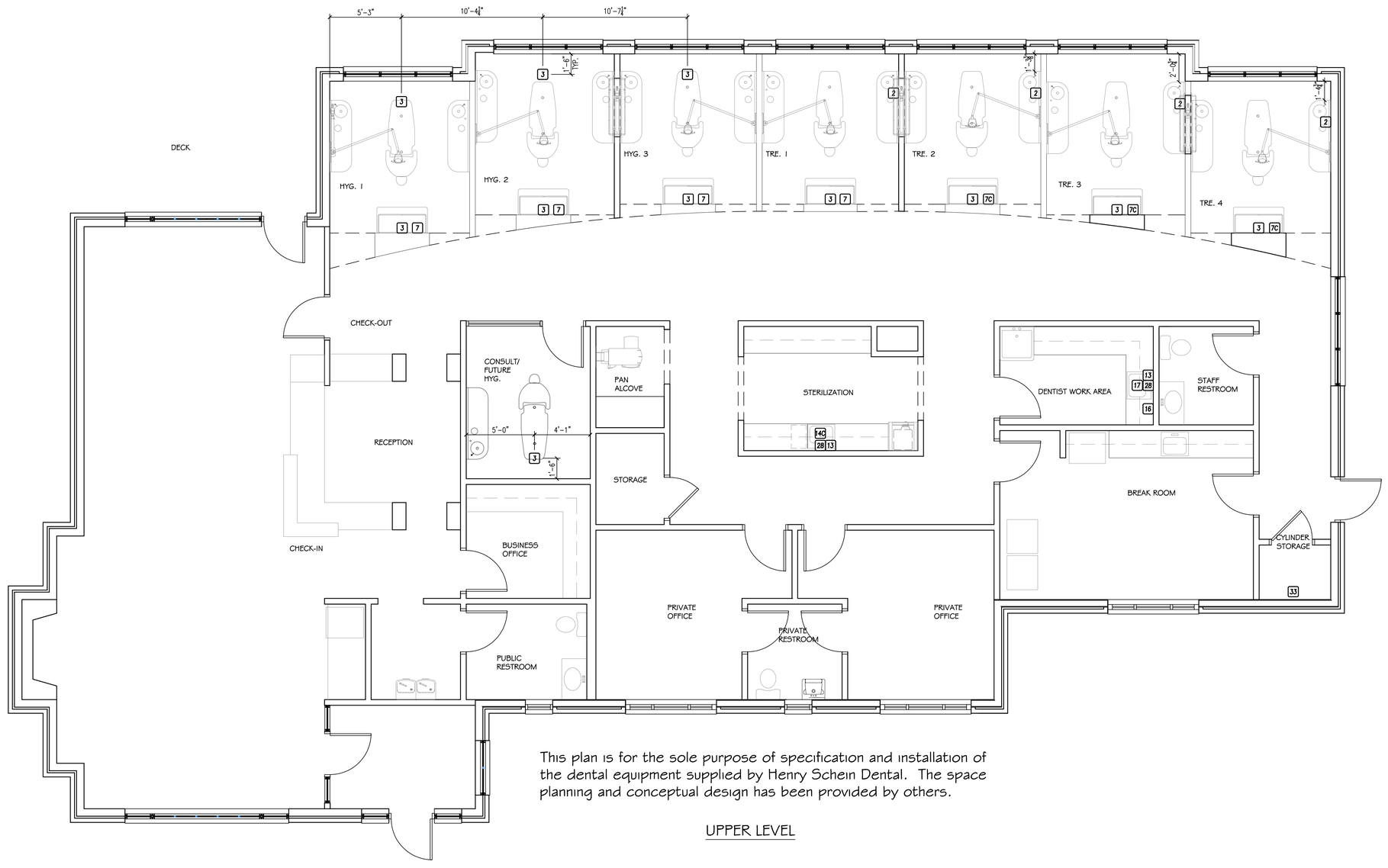
*ALL REQUIREMENTS TO BE VERIFIED BY MANUFACTURER'S SPEC SHEETS PROVIDED BY HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST. MANUFACTURER'S SPECS SUPERSEDE ANY AND ALL INFORMATION CONTAINED HEREIN.

PLUMBING NOTES

1. WATER PRESSURE MUST NOT EXCEED 50 PSI AT ALL DENTAL UNITS.

2. BACK-FLOW PREVENTION IS REQUIRED ON ALL LINES AS PER LOCAL CODE.

SEE SHEETS SPE.3 & SPE.4 FOR ILLUSTRATIONS & DETAILS



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UPPER LEVEL

PROPOSED DENTAL PLUMBING SPECIFICATIONS

1/4" = 1'-0"

HENRY SCHEIN® DENTAL

PROJECT: **DR. PATRICK DAVIS**

LOCATION:

HENRY SCHEIN REP: JIM SMITHEY
CENTER: BIRMINGHAM, AL
PHONE #: (800) 645-6594

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INT.SQ.FT.=	--- SF

SCALE: 1/4" = 1'-0"
SHT. SIZE: D

PLUMBING PLAN

SPE.0

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PLUMBING SPECIFICATIONS

QUANTITY	SPEC. NUMBER	DESCRIPTION	COLD WATER	HOT WATER	DRAIN	AIR	NATURAL GAS	VACUUM	N2O-O2	OXYGEN	VENT	MECH. DETAIL	CONS. DETAIL
1	25	AIR COMPRESSOR W/DRYER - SEE MFG. SPECS. 1/2" I.D. COPPER TUBING. ELECTRICIAN TO SUPPLY BUCK-BOOSTER IF REQUIRED. FRESH AIR INTAKE VENT SUPPLIED BY CONTRACTOR.				•						25	
1	26A	VACUUM SYSTEM (WET) - SEE MFG. SPECS. 1-1/2" MAIN TRUNK LINES. USE PVC SCHEDULE 40 PIPES WHERE PERMITTED BY CODE. HENRY SCHEIN DENTAL TO SUPPLY CYCLONE SEPARATOR IF REQ'D. OUTSIDE-VENT REQ'D. BACK FLOW PREVENTION REQ'D AS PER LOCAL CODE. ELECTRICIAN TO SUPPLY BUCK-BOOSTER IF REQ'D.	•		•			•			•	26A, VAC	
1	30A	WATER SOLENOID W/FILTER - SUPPLIED BY HENRY SCHEIN DENTAL. INSTALLED BY PLUMBER ON COLD WATER LINE WITH A VALVE ON BOTH SIDES. (FOR DENTAL EQUIPMENT ONLY).	•									30A	

GENERAL NOTES

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PLUMBING NOTES

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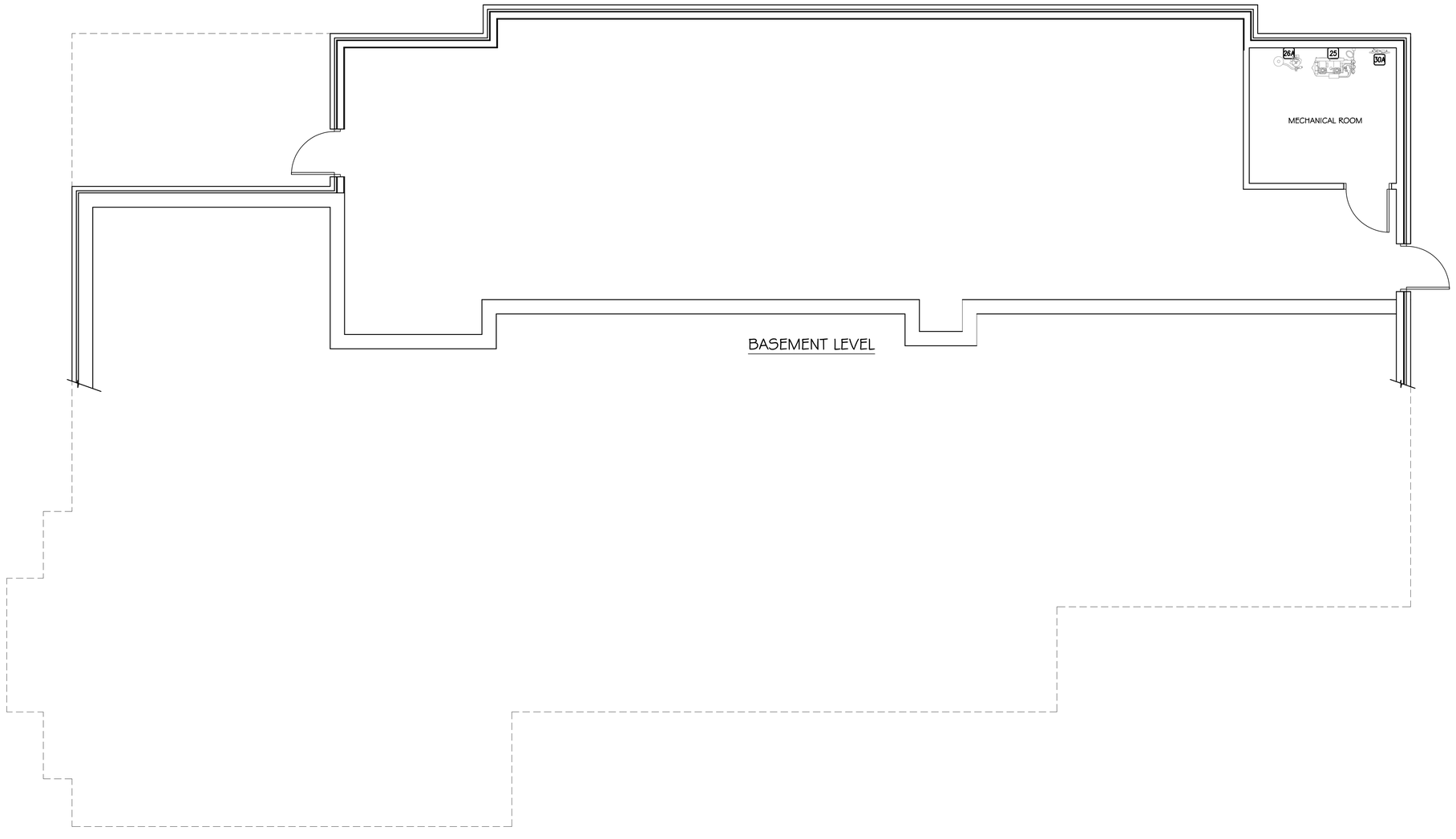

BASEMENT LEVEL

PROPOSED DENTAL PLUMBING SPECIFICATIONS

1/4"= 1'-0"

HENRY SCHEIN® DENTAL

PROJECT: **DR. PATRICK DAVIS**

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BASEMENT PLUMBING PLAN

SPE.1

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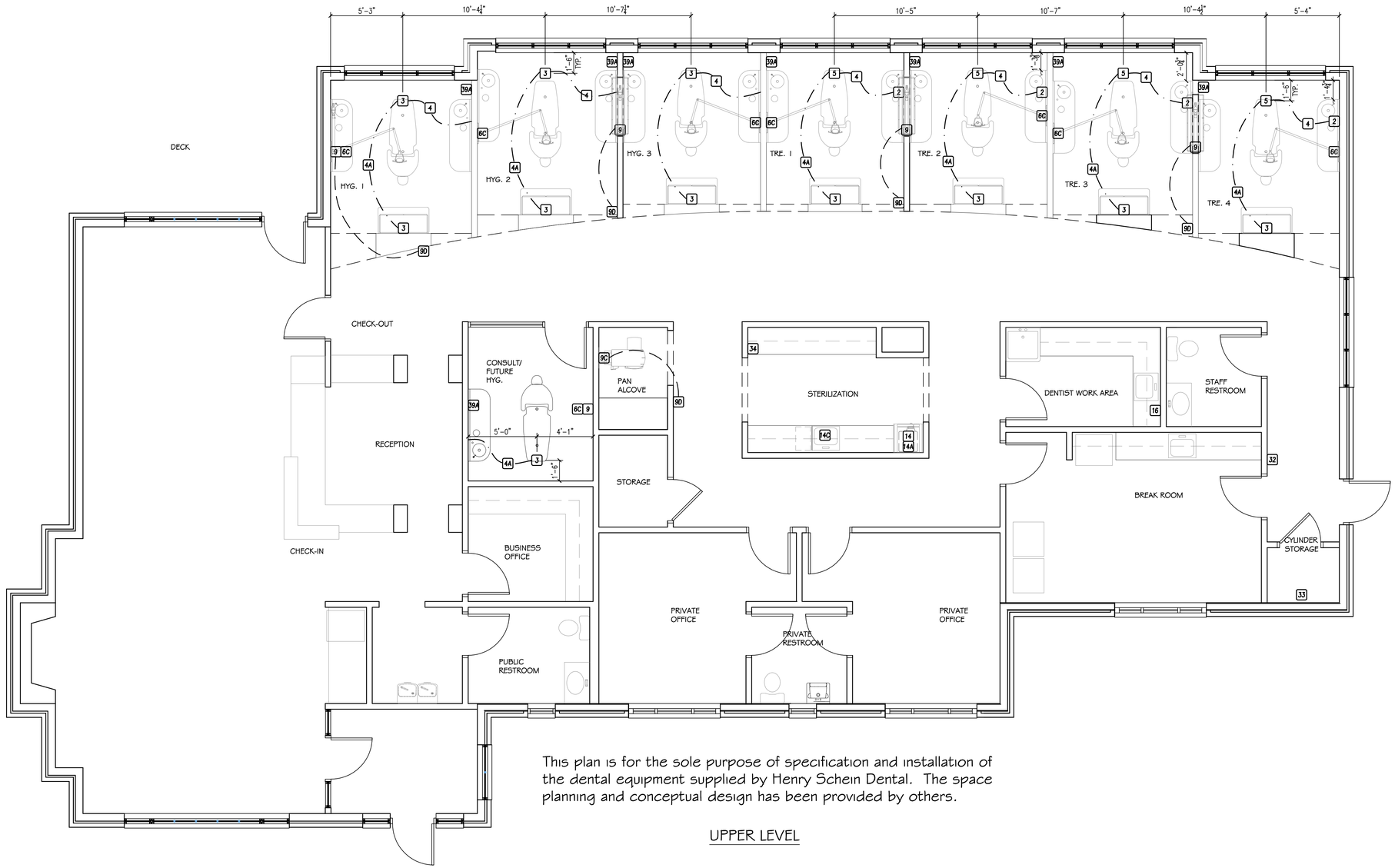
ELECTRICAL SPECIFICATIONS

QUANTITY	SPEC. NUMBER	DESCRIPTION	ELECTRICAL (SEE DETAILS FOR REQUIREMENTS)	VOLTAGE & AMPS	DEDICATED CIRCUIT	LOW VOLTAGE CONTROL	REMOTE SWITCH	MECHANICAL DETAIL	CONSTRUCTION DETAIL
4	2	UTILITY CENTER - SEE MFG. SPECS. BACK FLOW PREVENTION REQUIRED AS PER LOCAL CODE.	•	115V, 20A				2	
11	3	UTILITY CENTER - SEE MFG. SPECS. BACK FLOW PREVENTION REQUIRED AS PER LOCAL CODE.	•	115V, 20A				3	
7	4	1 1/2" PIPE CHASE FOR FOOT CONTROL WITH PULL-WIRE FROM DENTAL CHAIR LOCATION TO #1, #2, #2A, #3, AND/OR #3A. ELECTRICIAN TO INSTALL.							
7	4A	2" EMPTY CONDUIT - PIPE CHASE WITH PULL-WIRE TO BE SUPPLIED AND INSTALLED BY ELECTRICIAN.							
4	5	DENTAL CHAIR RECEPTACLE - SUPPLIED AND INSTALLED BY ELECTRICIAN. EXACT LOCATION TO BE SPOTTED BY HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST.	•	115V, 3A				5	
8	6C	DENTAL LIGHT (WALL MOUNTED) - SEE MFG. SPECS. REQUIRES MOUNTING SUPPORT. VERIFY MOUNTING LOCATION ON-SITE WITH DOCTOR & EQUIPMENT REP.	•	115V, 3A					WL
5	9	INTRAORAL X-RAY (SELF-CONTAINED) - SEE MFG. SPECS. REQUIRES A MECHANICAL GROUND AND MOUNTING SUPPORT.	•	115V, 20A	•				WD2
1	9C	PANORAMIC AND/OR CEPHALOMETRIC X-RAY/CONE BEAM - SEE MFG. SPECS. REQUIRES A MECHANICAL GROUND.	•	110V & 220V, 20A	•				WD7
5	9D	X-RAY REMOTED MOMENTARY CONTACT EXPOSURE BUTTON - SUPPLIED BY HENRY SCHEIN DENTAL, INSTALLED BY ELECTRICIAN. CONNECT WIRES TO X-RAY MASTER CONTROL PER MFG. SPECS.				•		9D	

ELECTRICAL SPECIFICATIONS

QUANTITY	SPEC. NUMBER	DESCRIPTION	ELECTRICAL (SEE DETAILS FOR REQUIREMENTS)	VOLTAGE & AMPS	DEDICATED CIRCUIT	LOW VOLTAGE CONTROL	REMOTE SWITCH	MECHANICAL DETAIL	CONSTRUCTION DETAIL
1	14	STERILIZER (STATIM) - SEE MFG. SPECS. SWITCHED OUTLET RECOMMENDED, ESPECIALLY IF UNIT IS MOUNTED INSIDE CABINET.	•	115V, 15A, 60Hz	•			14A	
1	14A	STERILIZER (AUTO-CLAVE) - SEE MFG. SPECS.	•	115V & 220V, 20A	•			14A	
1	14C	STERI-CENTER UTILITIES - STERI-CENTER SUPPLIED AND INSTALLED BY HENRY SCHEIN DENTAL. CONTRACTOR TO INSTALL REQUIRED UTILITY HOOKUPS PER MFG. SPECS.	•	See mfg. specs.	•				
1	16	MODEL TRIMMER - SEE MFG. SPECS. PLUMBER TO INSTALL CHROME ANGLE STOP WITH 1/4" COPPER FPT OUTLET. BACK FLOW PREVENTION PER CODE.	•	115V				17	
1	32	REMOTE PANEL (AIR, WATER, & VAC) - SUPPLIED BY HENRY SCHEIN DENTAL, INSTALLED BY CONTRACTOR 60" A.F.F.	•				•	32	
1	33	NITROUS OXIDE & OXYGEN MANIFOLD SYSTEM - SEE MFG. SPECS. SUPPLIED BY HENRY SCHEIN DENTAL, INSTALLED BY PLUMBER. REQUIRES L OR K COPPER LINES, SILVER SOLDERED TO TRUNK LINES RUNNING TO EACH TREATMENT ROOM. PRESSURE TESTED WITH DRY NITROGEN TO 150 PSI FOR 24 HOURS BY PLUMBER.	•	115V, 1.5A				33, N2O	
1	34	NITROUS OXIDE & OXYGEN ALARM SYSTEM - SUPPLIED BY HENRY SCHEIN DENTAL, INSTALLED BY ELECTRICIAN. SEE MFG. SPECS. LOCATION PER HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST & CONFIRMED BY DOCTOR.	•	115V, 1.5A			•	34	
8	39A	WALL BLOCKING FOR MONITOR MOUNT - SEE CUSTOMER AND HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST FOR EXACT LOCATION.	•	115V, 1.5A					39A



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UPPER LEVEL

PROPOSED DENTAL ELECTRICAL SPECIFICATIONS

1/4"= 1'-0"

GENERAL NOTES

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ELECTRICAL NOTES

1. ALL COMPUTER NETWORKING AND WORKSTATIONS MUST BE SPECIFIED BY CUSTOMER'S COMPUTER SUPPLIER. HENRY SCHEIN DENTAL IS NOT RESPONSIBLE FOR OFFICE COMPUTER NETWORK SITE PREPARATION OR INSTALLATION.

2. ADDITIONAL CONVENIENCE OUTLETS REQUIRED ON JOBSITE ARE THE RESPONSIBILITY OF ELECTRICAL CONTRACTORS. FOLLOW LOCAL CODE RESTRICTIONS.

3. GFCI PROTECTION OR REDUNDANT GROUND IN DENTAL CHAIR RECEPTACLES AND OTHER AREAS WHICH EVER REQUIRED BY LOCAL CODE IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

4. IF EXACT EQUIPMENT LOCATION DIMENSIONS ARE NOT PRESENT ON PLANS, LOCATIONS WILL NEED TO BE JOB SITE VERIFIED BY THE HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST.

5. FOLLOW CABINET MANUFACTURER'S DRAWINGS FOR EXACT LOCATIONS OF UTILITIES, WATER DRAINS, AND ELECTRICAL OUTLETS IN ALL CABINETRY SUPPLIED BY HENRY SCHEIN DENTAL. CONSULT WITH HENRY SCHEIN DENTAL REP.

SEE SHEETS SPE.4 & SPE.5 FOR ILLUSTRATIONS & DETAILS

HENRY SCHEIN® DENTAL

PROJECT: **DR. PATRICK DAVIS**

LOCATION:

HENRY SCHEIN REP: JIM SMITHEY
CENTER: BIRMINGHAM, AL
PHONE #: (800) 645-6594

-IMPORTANT NOTE-
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ALL DIMENSIONS ARE SUBJECT TO JOB-SITE VERIFICATION.

DRAWING NAME: DAVIS-F
PROJECT START DATE: 10/06/08
DETAIL START DATE: 10/06/08
DRAWN BY: OTHERS
DETAILED BY: TAS
CHECKED BY: ---

REVISIONS:

10/17/08	TAS
10/20/08	TAS
11/25/08	ISSUED
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INT.SQ.FT.=	--- SF

SCALE: 1/4"= 1'-0" | SHT. SIZE: D

ELECTRICAL PLAN

SPE.2

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ELECTRICAL SPECIFICATIONS

QUANTITY	SPEC. NUMBER	DESCRIPTION	ELECTRICAL (SEE DETAILS FOR REQUIREMENTS)	VOLTAGE & AMPS	DEDICATED CIRCUIT	LOW VOLTAGE CONTROL	REMOTE SWITCH	MECHANICAL DETAIL	CONSTRUCTION DETAIL
1	25	AIR COMPRESSOR W/DRYER - SEE MFG. SPECS. 1/2" I.D. COPPER TUBING. ELECTRICIAN TO SUPPLY BUCK-BOOSTER IF REQUIRED. FRESH AIR INTAKE VENT SUPPLIED BY CONTRACTOR.	•	220V 20A	•		•	25	
1	26A	VACUUM SYSTEM (WET) - SEE MFG. SPECS. 1-1/2" MAIN TRUNK LINES. USE PVC SCHEDULE 40 PIPES WHERE PERMITTED BY CODE. HENRY SCHEIN DENTAL TO SUPPLY CYCLONE SEPARATOR IF REQ'D. OUTSIDE-VENT REQ'D. BACK FLOW PREVENTION REQ'D AS PER LOCAL CODE. ELECTRICIAN TO SUPPLY BUCK-BOOSTER IF REQ'D.	•	1 - 220V	•	•	•	26A, VAC	
1	30A	WATER SOLENOID W/FILTER - SUPPLIED BY HENRY SCHEIN DENTAL. INSTALLED BY PLUMBER ON COLD WATER LINE WITH A VALVE ON BOTH SIDES. (FOR DENTAL EQUIPMENT ONLY).	•	115V OR 24V		•	•	30A	

GENERAL NOTES

*A HENRY SCHEIN DENTAL REPRESENTATIVE WILL SPOT ALL EXACT EQUIPMENT LOCATIONS ON THE JOB.

*THIS SPECIFICATION SHEET IS INTENDED AS A GUIDE FOR TRADESMEN. THE FLOOR PLANS ENCLOSED HEREIN ARE SUGGESTIONS FOR THE PLACEMENT OF DENTAL EQUIPMENT. THEY ARE NOT INTENDED FOR CONSTRUCTION.

*ALL REQUIREMENTS TO BE VERIFIED BY MANUFACTURER'S SPEC SHEETS PROVIDED BY HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST. MANUFACTURER'S SPECS SUPERSEDE ANY AND ALL INFORMATION CONTAINED HEREIN.

ELECTRICAL NOTES

1. ALL COMPUTER NETWORKING AND WORKSTATIONS MUST BE SPECIFIED BY CUSTOMER'S COMPUTER SUPPLIER. HENRY SCHEIN DENTAL IS NOT RESPONSIBLE FOR OFFICE COMPUTER NETWORK SITE PREPARATION OR INSTALLATION.

2. ADDITIONAL CONVENIENCE OUTLETS REQUIRED ON JOBSITE ARE THE RESPONSIBILITY OF ELECTRICAL CONTRACTORS. FOLLOW LOCAL CODE RESTRICTIONS.

3. GFCI PROTECTION OR REDUNDANT GROUND IN DENTAL CHAIR RECEPTACLES AND OTHER AREAS WHICH EVER REQUIRED BY LOCAL CODE IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

4. IF EXACT EQUIPMENT LOCATION DIMENSIONS ARE NOT PRESENT ON PLANS, LOCATIONS WILL NEED TO BE JOB SITE VERIFIED BY THE HENRY SCHEIN DENTAL EQUIPMENT SPECIALIST.

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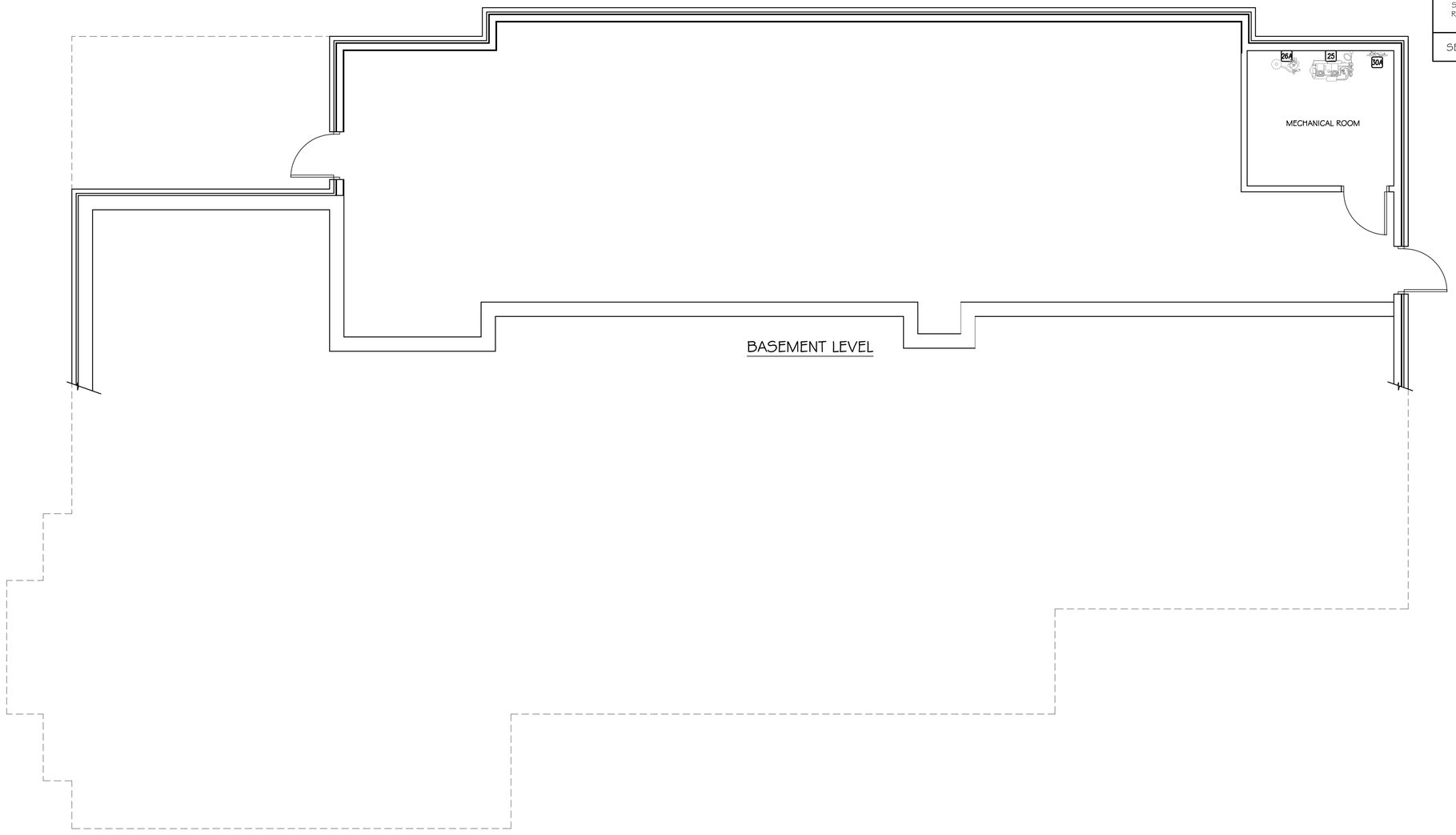
SEE SHEETS SPE.4 & SPE.5 FOR ILLUSTRATIONS & DETAILS



PROPOSED DENTAL ELECTRICAL SPECIFICATIONS

1/4"= 1'-0"

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HENRY SCHEIN® DENTAL

PROJECT: **DR. PATRICK DAVIS**

LOCATION: -

HENRY SCHEIN REP: JIM SMITHEY
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11/25/08	ISSUED
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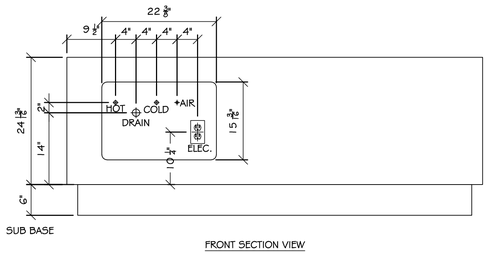
INT.SQ.FT.= --- SF

SCALE: 1/4"= 1'-0" | SHT. SIZE: D

BASEMENT ELECTRICAL PLAN

SPE.3



FRONT SECTION VIEW

GENERAL NOTES:

THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY. CONSULT ACTUAL MANUFACTURER'S TEMPLATE WHEN INSTALLING EQUIPMENT.

LOCAL REGULATIONS PROVIDE THAT LICENSED PLUMBERS AND ELECTRICIANS SHALL INSTALL UTILITIES.

ALL PLUMBING AND ELECTRICAL MUST CONFORM TO PREVAILING LOCAL CODES.

WATER: 35-40 PSI AIR: 70-80 PSI
1/2" O.D. (1.27cm) COPPER TUBING WITH 1/2" NPT MALE FITTING. STUB-UP 1-1/2" (3.81cm) FROM FINISHED FLOOR SURFACE. FLUSH ALL DEBRIS FROM LINE BEFORE INSTALLING VALVES.

NOTE:
AIR AND WATER SHUT-OFF VALVES CAN NOT EXTEND MORE THAN 6" ABOVE FINISHED FLOOR SURFACE, FULLY OPENED.

VACUUM (IF USING):
5/8" O.D. (1.59cm) COPPER TUBING, TYPE L (.045 WALL THICKNESS). STUB-UP 1/2" (1.27cm) MIN., 1" (2.54cm) MAX FROM FINISHED FLOOR OR WALL SURFACE. ELBOW CONNECTION FURNISHED BY P&C TO BE SOLDERED IN PLACE.

ELECTRICAL:
YOUR NEW CABINET SHOULD BE CONNECTED TO A DEDICATED 120 VAC. 15 AMP CIRCUIT. THIS CONNECTION CAN BE MADE EITHER AS A PERMANENT UNIT OR AS A CORD-CONNECTED UNIT. THE UNIT IS SHIPPED AS A CORD CONNECTED CABINET. CONSULT LOCAL ELECTRICAL CODES FOR ACCEPTED METHOD IN YOUR AREA.

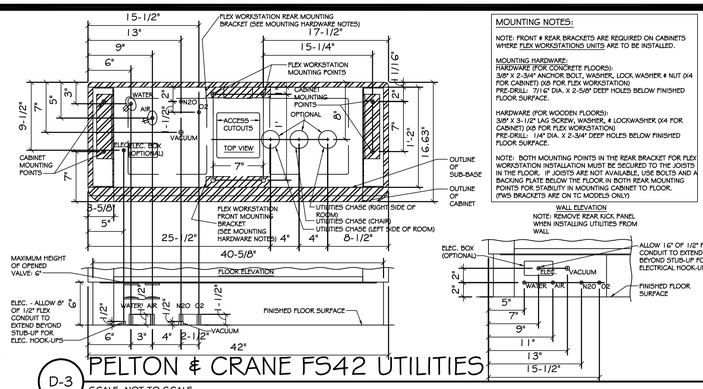
PERMANENT CONNECTION: STUB-UP WITH 1/2" (1.27cm) FLEXIBLE CONDUIT (AT TEMPLATE SPECIFIED LENGTHS) FOR CONNECTION TO THE POWER STRIP. CIRCUIT SHOULD BE 120 VAC. DEDICATED 15 AMP. THE CABINET IS DESIGNED TO MEET THE NATIONAL ELECTRICAL CODE FOR REDUNDANT GROUNDING.

CORD CONNECTION: SUPPLY 120 VAC. DEDICATED 15 AMP CIRCUIT TO A RECEPTACLE BOX LOCATED IN THE AREA SHOWN.

NOTE:
ELECTRICAL INSTALLATION MUST MEET ALL APPROPRIATE ELECTRICAL CODES. CONSULT ELECTRICAL CONTRACTOR TO PROVIDE A 115 VAC RECEPTACLE.

D-2 PELTON & CRANE SD-210 SIDE DELIVERY CABINET

NOT TO SCALE



MOUNTING NOTES:

NOTE: FRONT & REAR BRACKETS ARE REQUIRED ON CABINETS WHERE FLEX WORKSTATIONS UNITS ARE TO BE INSTALLED.

MOUNTING HARDWARE:
HARDWARE (FOR CONCRETE FLOORS):
3/8" X 2-3/4" ANCHOR BOLT, WASHER, LOCK WASHER & NUT (X4 FOR CABINET) (X8 FOR FLEX WORKSTATION)
PRE-DRILL: 7/16" DIA. X 2-5/8" DEEP HOLES BELOW FINISHED FLOOR SURFACE.

HARDWARE (FOR WOODEN FLOORS):
3/8" X 3-1/2" LAG SCREW, WASHER, & LOCKWASHER (X4 FOR CABINET) (X8 FOR FLEX WORKSTATION)
PRE-DRILL: 1/4" DIA. X 2-3/4" DEEP HOLES BELOW FINISHED FLOOR SURFACE.

NOTE: BOTH MOUNTING POINTS IN THE REAR BRACKET FOR FLEX WORKSTATION INSTALLATION MUST BE SECURED TO THE JOISTS IN THE FLOOR. IF JOISTS ARE NOT AVAILABLE, USE BOLTS AND A BACKING PLATE BELOW THE FLOOR IN BOTH REAR MOUNTING POINTS FOR STABILITY IN MOUNTING CABINET TO FLOOR. (FWS BRACKETS ARE ON TC MODELS ONLY)

WALL ELEVATION

NOTE: REMOVE REAR KICK PANEL WHEN INSTALLING UTILITIES FROM WALL

GENERAL NOTES:

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LOCAL REGULATIONS PROVIDE THAT LICENSED PLUMBERS AND ELECTRICIANS SHALL INSTALL UTILITIES.

ALL PLUMBING AND ELECTRICAL MUST CONFORM TO PREVAILING LOCAL CODES.

WATER: 35-40 PSI AIR: 70-80 PSI
1/2" O.D. (1.27cm) COPPER TUBING WITH 1/2" NPT MALE FITTING. STUB-UP 1-1/2" (3.81cm) FROM FINISHED FLOOR SURFACE. FLUSH ALL DEBRIS FROM LINE BEFORE INSTALLING VALVES.

NOTE: AIR AND WATER SHUT-OFF VALVES CAN NOT EXTEND MORE THAN 6" ABOVE FINISHED FLOOR SURFACE, FULLY OPENED.

VACUUM:
5/8" O.D. (1.59cm) COPPER TUBING, TYPE L (.045 WALL THICKNESS). STUB-UP 1/2" (1.27cm) MIN., 1" (2.54cm) MAX FROM FINISHED FLOOR OR WALL SURFACE. ELBOW CONNECTION FURNISHED BY P&C TO BE SOLDERED IN PLACE.

ELECTRICAL:
YOUR NEW CABINET SHOULD BE CONNECTED TO A DEDICATED 120 VAC. 15 AMP CIRCUIT. THIS CONNECTION CAN BE MADE EITHER AS A PERMANENT UNIT OR AS A CORD-CONNECTED UNIT. THE UNIT IS SHIPPED AS A CORD CONNECTED CABINET. CONSULT LOCAL ELECTRICAL CODES FOR ACCEPTED METHOD IN YOUR AREA.

PERMANENT CONNECTION: STUB-UP WITH 1/2" (1.27cm) FLEXIBLE CONDUIT (AT TEMPLATE SPECIFIED LENGTHS) FOR CONNECTION TO THE POWER STRIP. CIRCUIT SHOULD BE 120 VAC. DEDICATED 15 AMP. THE CABINET IS DESIGNED TO MEET THE NATIONAL ELECTRICAL CODE FOR REDUNDANT GROUNDING.

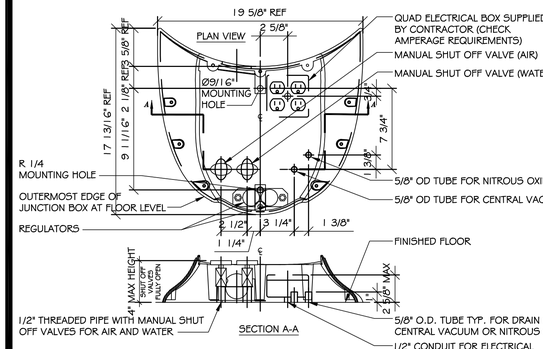
CORD CONNECTION: SUPPLY 120 VAC. DEDICATED 15 AMP CIRCUIT TO A RECEPTACLE BOX LOCATED IN THE AREA SHOWN.

NOTE: ELECTRICAL INSTALLATION MUST MEET ALL APPROPRIATE ELECTRICAL CODES. CONSULT ELECTRICAL CONTRACTOR TO PROVIDE A 115 VAC RECEPTACLE.

NOTE: CHECK LOCAL PLUMBING CODES FOR COMPLIANCE BECAUSE OF VARYING CITY PLUMBING CODES. THE DEALER SHOULD ENSURE THAT THE INSTALLATION AND DRAIN LINE VENTING WILL MEET LOCAL REQUIREMENTS. PELTON & CRANE CANNOT BE HELD RESPONSIBLE FOR AN INSTALLATION WHICH DOES NOT MEET LOCAL PLUMBING CODES.

D-3 PELTON & CRANE FS42 UTILITIES

SCALE: NOT TO SCALE



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LOCAL REGULATIONS PROVIDE THAT LICENSED PLUMBERS AND ELECTRICIANS SHALL INSTALL UTILITIES.

ALL PLUMBING AND ELECTRICAL MUST CONFORM TO PREVAILING LOCAL CODES.

POSITION JUNCTION BOX ACCORDING TO EXISTING UTILITIES IN THE TREATMENT ROOM. NOTE: CUT UMBILICAL TO A LENGTH NECESSARY TO ACCOMMODATE THE JUNCTION BOX. THE JUNCTION BOX IS DESIGNED TO COVER NEW DENTAL UNIT PLUMBING IN THE TREATMENT ROOM. IT IS STANDARD FOR ALL EP AND EM SYSTEMS REQUIRING AIR, WATER AND ELECTRICAL HOOKUPS.

AIR: 1/2" PIPE NPT PROTRUDING 1" FROM FLOOR OR WALL. SUPPLIED BY CONTRACTOR. MANUAL AIR SHUT-OFF VALVE SUPPLIED AND INSTALLED BY CONTRACTOR. AIR PRESSURE 70-80 PSI. AIR PLUMBING SHOULD BE FLUSHED CLEAN BEFORE MAKING FINAL CONNECTIONS TO DENTAL EQUIPMENT.

WATER: 1/2" PIPE NPT PROTRUDING 1" FROM FLOOR OR WALL. SUPPLIED BY CONTRACTOR. MANUAL WATER SHUT-OFF VALVE SUPPLIED AND INSTALLED BY CONTRACTOR. WATER PRESSURE 35-40 PSI. WATER PLUMBING SHOULD BE FLUSHED CLEAN BEFORE MAKING FINAL CONNECTIONS TO DENTAL EQUIPMENT.

ELECTRICAL: 1/2" CONDUIT AND BOX WITH QUAD OR EQUAL RECEPTACLE SUPPLIED BY CONTRACTOR. WIRE BOX AS PER CODE WITH TOP OF THE BOX NO HIGHER THAN 4 1/2 " AFF. VOLTAGE: 115V AC 60 HZ 8 AMP 3 WIRE OR 230V AC 50 HZ 4 AMPS 3 WIRE.

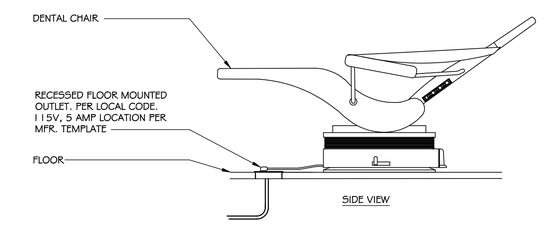
CENTRAL VACUUM: PLUMBING UP TO UTILITY CENTER SHOULD BE SPECIFIED BY CENTRAL VACUUM SUPPLIER AND TERMINATED IN UTILITY CENTER WITH 7/8" OD TUBE PERPENDICULAR TO FLOOR. SIMILAR TO DRAIN CONNECTION.

NOTE: CHECK LOCAL PLUMBING CODES FOR COMPLIANCE BECAUSE OF VARYING CITY PLUMBING CODES. PELTON & CRANE CANNOT BE HELD RESPONSIBLE FOR AN INSTALLATION WHICH DOES NOT MEET LOCAL AND PLUMBING CODES.

NOTE: ELECTRICAL INSTALLATION MUST MEET ALL APPROPRIATE ELECTRICAL CODES. CONSULT ELECTRICAL CONTRACTOR TO PROVIDE A 115VAC RECEPTACLE.

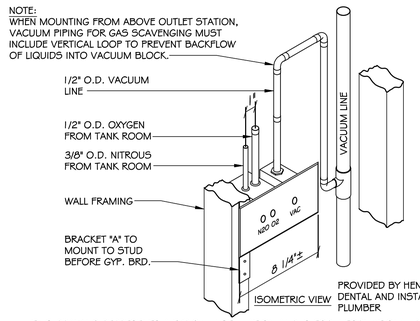
D-3 PELTON & CRANE 3000 UTILITY CENTER

NOT TO SCALE



D-5 RECESSED CHAIR OUTLET

NOT TO SCALE

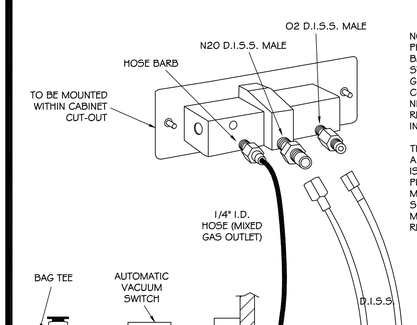


PROVIDED BY HENRY SCHEIN DENTAL AND INSTALLED BY PLUMBER

THIS DRAWING REPRESENTS A TYPICAL INSTALLATION AND IS FOR INFORMATIONAL PURPOSES ONLY. REVIEW MANUFACTURER SPECIFICATIONS FOR EXACT MODEL AND SYSTEM REQUIREMENTS.

D-7 N_2O, O_2 & VACUUM OUTLET STATION

NOT TO SCALE



NOTE: NITROUS OXIDE PIPING SPECIFICATIONS ARE BASED ON NFPA 99 STANDARDS FOR DENTAL GAS SYSTEMS. LOCAL CODES MAY SUPERSEDE NFPA 99. VERIFY LOCAL REQUIREMENTS BEFORE INSTALLATION.

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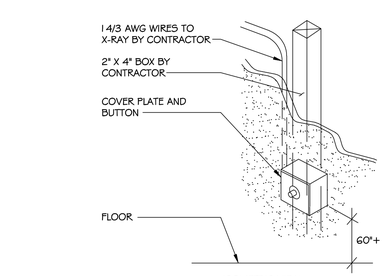
D-7C CABINET MOUNTED N20 FLOWMETER

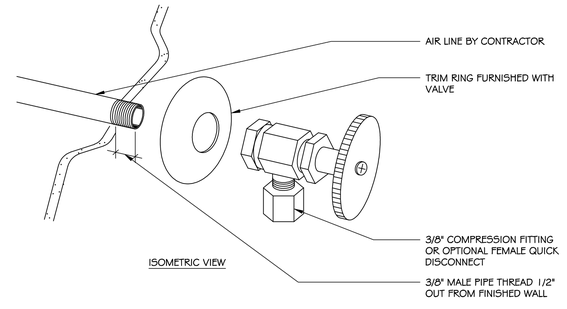
NOT TO SCALE



PROVIDED BY HENRY SCHEIN DENTAL; INSTALLED BY ELECTRICIAN

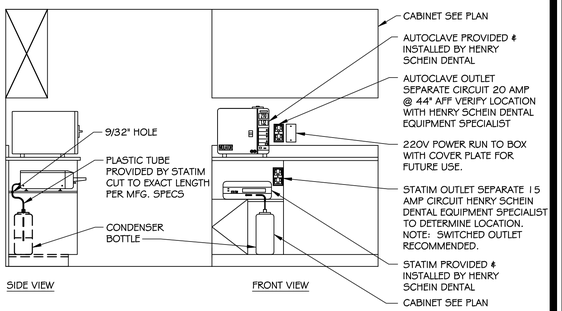
D-9D X-RAY REMOTE SWITCH

NOT TO SCALE



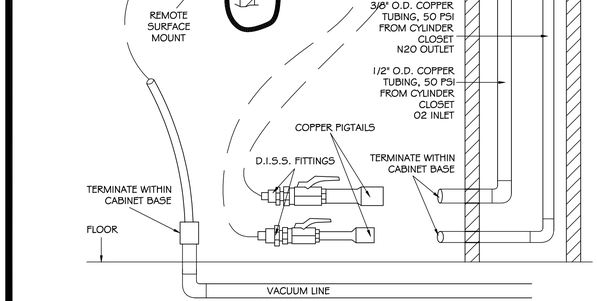
D-13 AIR VALVE

NOT TO SCALE



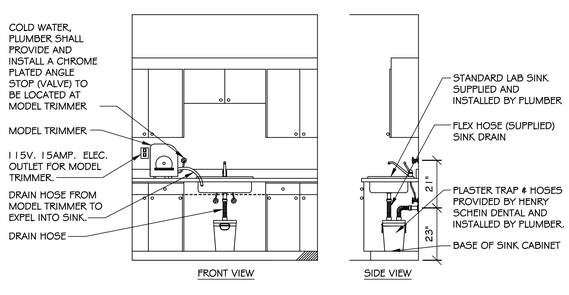
D-14A AUTOCLAVE AND STATIM OUTLETS

NOT TO SCALE



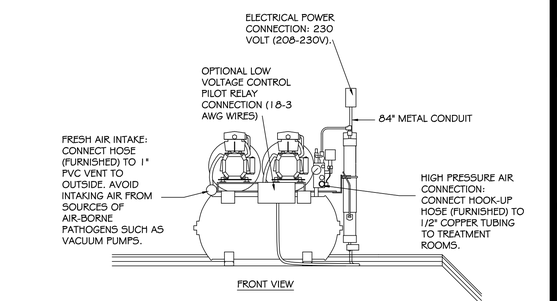
D-15 ULTRASONIC CLEANER

NOT TO SCALE



D-17 MODEL TRIMMER/DISP. PLASTER TRAP

NOT TO SCALE



D-25 MATRX OL-100-2 COMPRESSOR

NOT TO SCALE

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HENRY SCHEIN® DENTAL

PROJECT: **DR. PATRICK DAVIS**

LOCATION:

HENRY SCHEIN REP:
JIM SMITHEY
CENTER:
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PROJECT START DATE:	10/06/08
DETAIL START DATE:	10/06/08
DRAWN BY:	OTHERS
DETAILED BY:	TAS
CHECKED BY:	---

REVISIONS:

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11/25/08	ISSUED
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INT.SQ.FT.=	--- SF

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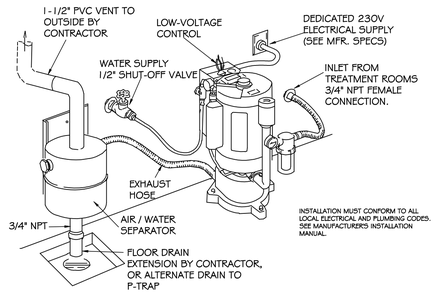
MECHANICAL DETAILS

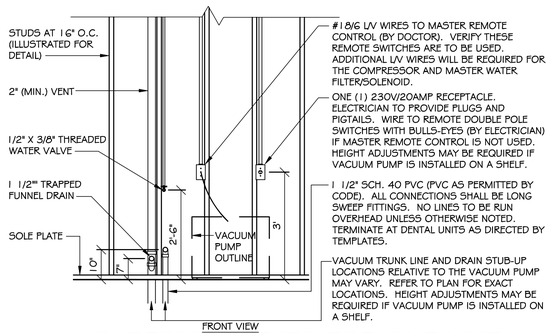
SPE.4



ISOMETRIC VIEW

D-26A MATRX MAXIMIZER VACUUM PUMP

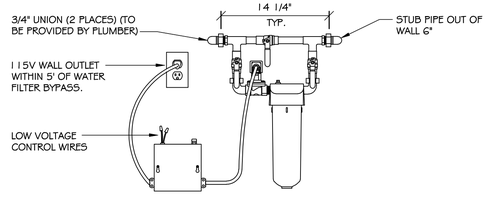
NOT TO SCALE



FRONT VIEW

VAC VAC. REQUIREMENTS FOR ONE UNIT

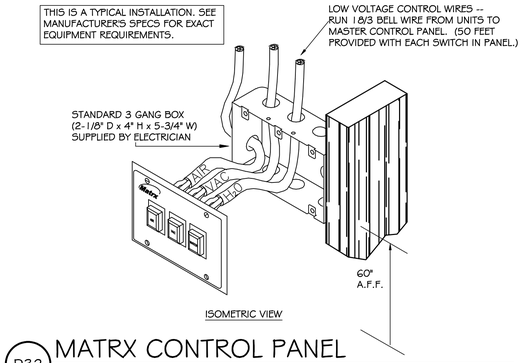
SCALE: NOT TO SCALE



FRONT VIEW

D-30A MASTER WATER SHUT OFF W/FILTER

NOT TO SCALE



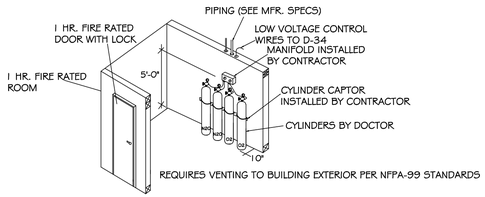
ISOMETRIC VIEW

D32 MATRX CONTROL PANEL

NOT TO SCALE

THESE RECOMMENDATIONS ARE BASED ON NFPA-99 STANDARDS FOR MEDICAL GAS SYSTEMS. LOCAL BUILDING AND FIRE CODES MAY SUPERSEDE NFPA-99. IMPORTANT: VERIFY LOCAL REQUIREMENTS BEFORE BEGINNING CONSTRUCTION.

SIGNAGE REQUIRED ON DOOR -
CAUTION
MEDICAL GASES
NO SMOKING OR OPEN FLAME
ROOM MAY HAVE INSUFFICIENT OXYGEN
OPEN DOOR AND ALLOW ROOM TO VENTILATE BEFORE ENTERING

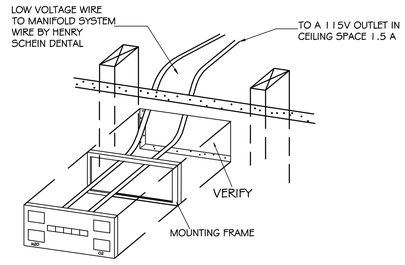


PROVIDED BY HENRY SCHEIN DENTAL AND INSTALLED BY CONTRACTOR

ISOMETRIC VIEW

D-33 N20-02 CYLINDER CLOSET - 4 CYLINDERS

NOT TO SCALE

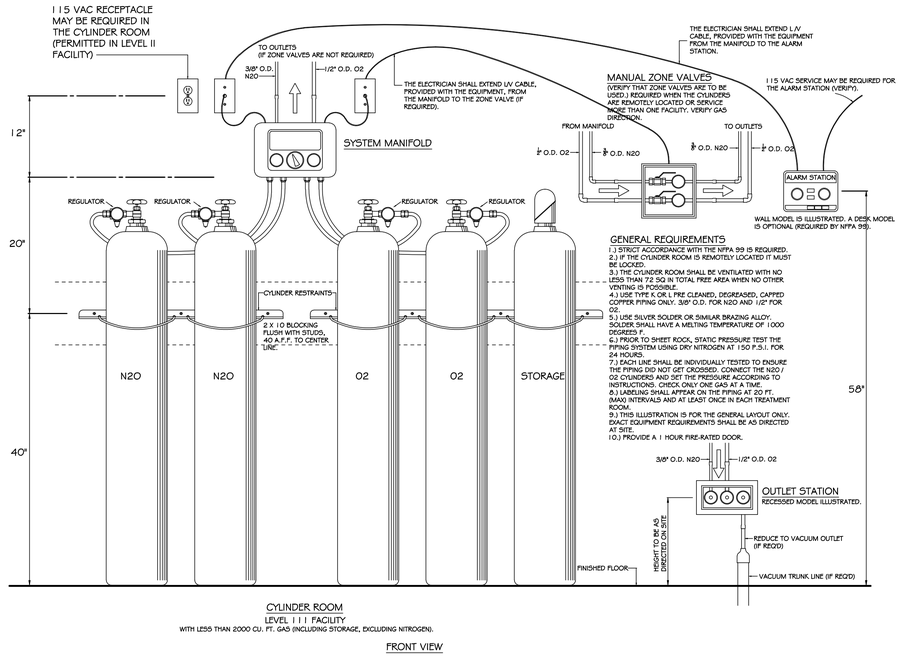


PROVIDED BY HENRY SCHEIN DENTAL AND INSTALLED BY CONTRACTOR.

ISOMETRIC VIEW

D-34 N20-02 ALARM PANEL

NOT TO SCALE



CYLINDER ROOM
LEVEL III FACILITY
WITH LESS THAN 2000 CU. FT. GAS (INCLUDING STORAGE, EXCLUDING NITROGEN).

FRONT VIEW

N2O NITROUS OXIDE & OXYGEN CYLINDER ROOM DETAIL

NOT TO SCALE

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HENRY SCHEIN® DENTAL

PROJECT: DR. PATRICK DAVIS

LOCATION:

HENRY SCHEIN REP: JIM SMITHEY
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DRAWING NAME: DAVIS-F
PROJECT START DATE: 10/06/08
DETAIL START DATE: 10/06/08
DRAWN BY: OTHERS
DETAILED BY: TAS
CHECKED BY: ---

REVISIONS:	
10/17/08	TAS
11/25/08	ISSUED
--/--/--	---
--/--/--	---
--/--/--	---
--/--/--	---
INT.SQ.FT.=	--- SF

SCALE: 1/2"= 1'-0" | SHT. SIZE: D

MECHANICAL DETAILS

SPE.5