

MANNSDALE DENTAL

HWY 463 & GLUCKSTADT ROAD
MADISON COUNTY, MISSISSIPPI

BID SET

10/24/20

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EQUIP.	SP.1	DENTAL PLUMBING PLAN
EQUIP.	SE.1	DENTAL ELECTRICAL PLAN
LANDSCAPE	L1	LANDSCAPE PLAN- NOT INCLUDED (OFFICE ALLOWANCE)



USE OF THIS SEAL BY ANY OTHER THAN THE ISSUING PROFESSIONAL ENGINEER IS UNLAWFUL AND SUBJECT TO PENALTY.

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A NEW BUILDING FOR:
Mannsdale Dental • Dr. Keith Brown, DMD
VILLAGE AT MANNSDALE, MADISON COUNTY, MISSISSIPPI



REVISIONS:

NO.	DATE:

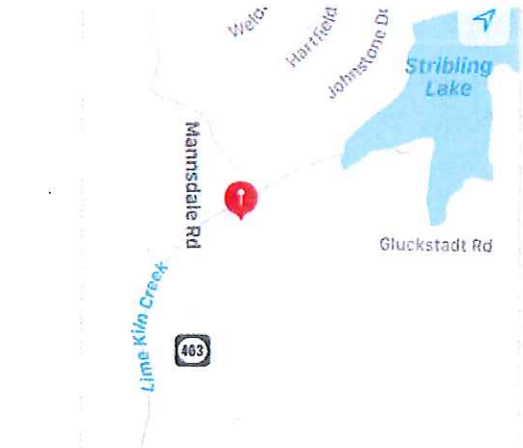
PROJECT NO: 20202

DATE: 10/24/20

A1.0

ABBREVIATIONS

ABV	ABOVE	LAM	LAMINATE
AC	AIR CONDITIONING	LAV	LAVATORY
AF	ABOVE FINISH FLOOR	LAV	LAVATORY
ALUM	ALUMINUM	MAS	MASONRY
ANC	ANCHOR	MAX	MAXIMUM
ANG	ANGLE	M.B.	MODIFIED BUTTMENT
BR	BROW	MECH	MECHANICAL
BLDG	BUILDING	MR	MIRrors
BLK	BLOCK	MISC	MISCELLANEOUS
BLOG	BLOCKING	MFG	MANUFACTURER
BM	BEAM	MTL	METAL
BRK	BREAK	NO	NOT BY CONTRACT
BU	BULLHEAD	NO	NUMBER
CAB	CABINET	NTS	NOT TO SCALE
CB	CATCH BASIN	OC	ON CENTER
CER	CERAMIC	OPND	OPENING
CH	CHANNEL	OP	OPPOSITE
CJ	CONSTRUCTION JOINT	OPH	OPPOSITE HAND
CL	CENTER LINE	PL	PROPERTY LINE
CLD	CERAMIC	PLA	PLASTER
CMU	CONCRETE MASONRY UNIT	PLAS	PLASTER
CNT	CENTER	PLYWD	PLYWOOD
COL	COLUMN	PP	POWER POLE
CONC	CONCRETE	PJ	POUNDS PER SQUARE INCH
CON	CONTINUOUS	PT	PAINT
CP	CARPET	PVC	POLY VINYL CHLORIDE
CT	CERAMIC TILE	QT	QUARRY TILE
CU	COPPER	QTY	QUANTITY
DET	DETAIL	R	RADIUS
DN	DOWEL	RA	RETURN AIR
DR	DOOR	REINF	REINFORCED
DS	DOOR SPOUT	RCP	REINFORCED CONCRETE PIPE
EA	EACH	RD	ROOF DRAIN
EOP	ELECTRIC DRINKING FOUNTAIN	RTU	ROOF TOP UNIT
EJ	EXPANSION JOINT	RM	ROOM
ELEC	ELECTRICAL	SD	SOLID CORE
ELEV	ELEVATION	SH	SHIELD
EQ	EQUAL	SHL	SHOWER
EQUIP	EQUIPMENT	SPECS	SPECIFICATIONS
ESH	EXHAUST	SQ	SQUARE
EXIST	EXISTING	SS	SEWAGE
FD	FLOOR DRAIN	STL	STEEL
FIC	FIRE EXTINGUISHER CABINET	STD	STANDARD, STUD
FIN	FINISH	STRU	STRUCTURAL
FF	FRESH FLOOR	STBL	STAINLESS STEEL
FSM	FACE OF MASONRY	THRESH	THRESHOLD
FT	FOOT, FEET	TOS	TOP OF STEEL
G	GAS	TOP	TOP OF PLATE
GA	GAUGE	TU	TUBE
GAL	GALVANIZE	TYP	TYPICAL
GL	GLASS	VERT	VERTICAL
GYP	GYPSUM	VWC	VENT WALL COVERING
HC	HANGCAP	W	WATER
HLL	HOLLOW METAL	WI	WITH
HOR	HORIZONTAL	WO	WITHOUT
HT	HEIGHT	WVD	WIDE FLANGE
HWD	HARDWARE	WV	WIND
IN	INCH, INCHES	WV	WIND
INS	INSULATION	WVFB	WIND BARRIER FABRIC



LOCATION MAP

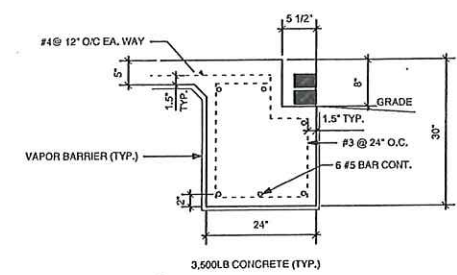
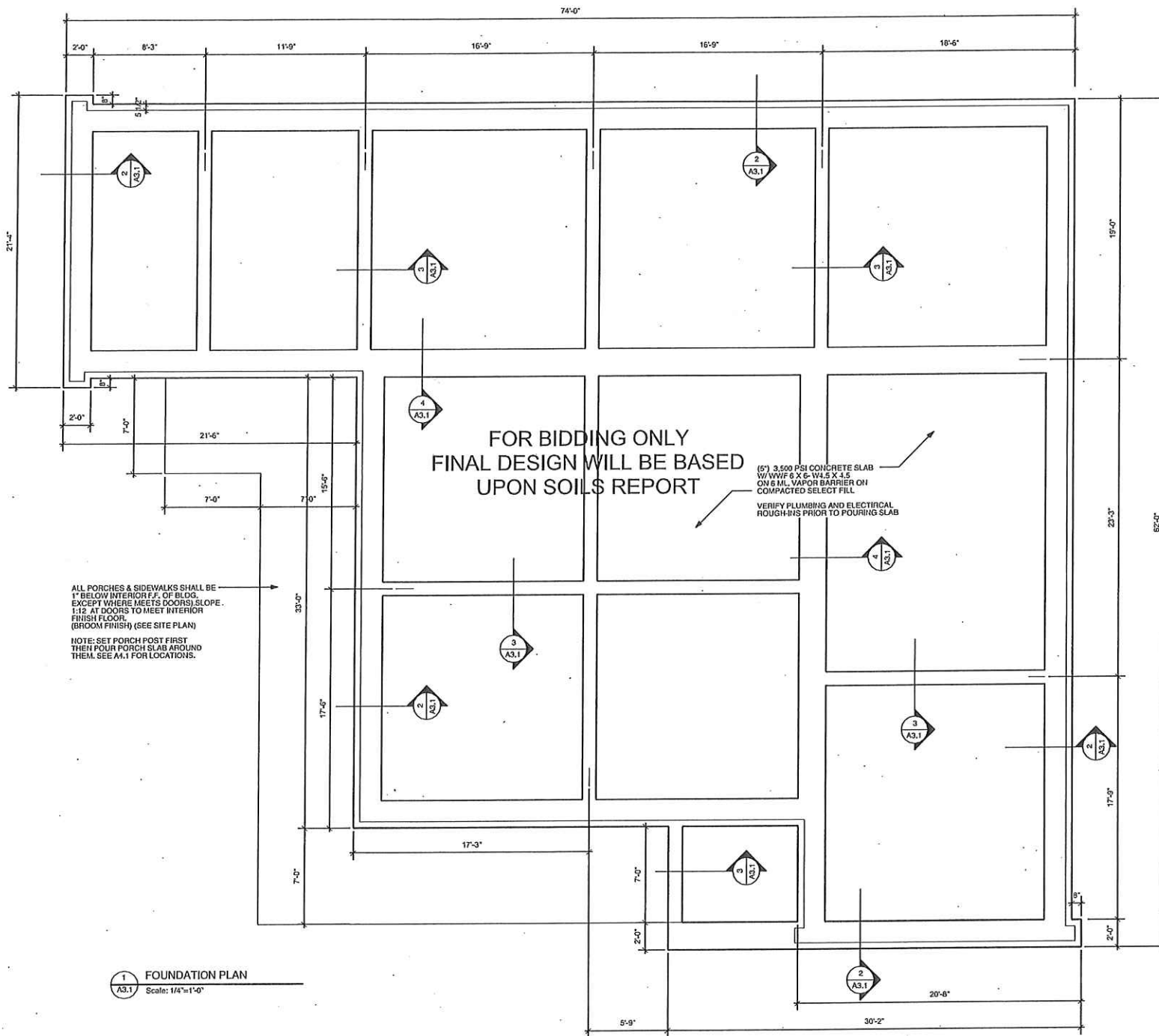
CODE REVIEW

CODES:
INTERNATIONAL BUILDING CODE - 2018
INTERNATIONAL PLUMBING CODE - 2018
INTERNATIONAL MECHANICAL CODE - 2018
NATIONAL ELECTRICAL CODE - 2018
INTERNATIONAL FIRE CODE - 2018
ADA STANDARDS FOR ACCESSIBLE DESIGN ICC A117 - 2018

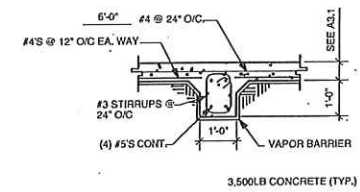
BUILDING TYPE: DENTAL CLINIC

OCCUPANCY CLASSIFICATIONS: TYPE "D" BUSINESS

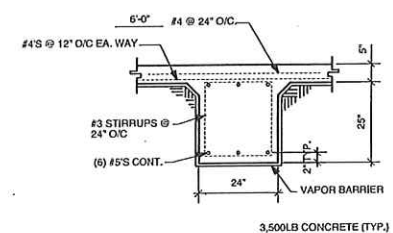
GENERAL NOTES



2
A3.1
Scale: NTS



3
A3.1
Scale: NTS



4
A3.1
Scale: NTS

FOUNDATION NOTES

- 1A. G.C. SHALL PROVIDE MIN. SIX (6) FEET SELECT SOIL SEPARATION BETWEEN THE DEEPEST PORTION OF THE FOUNDATION AND ANY EXPANSIVE SOILS. G.C. SHALL CONDUCT A MIN. OF FOUR (4) SOIL BORINGS ACROSS THE PAD AREA OR AS DETERMINED BY BURNS COOLEY GEOTECH ENGINEERS OR OTHER EQUAL STATE LICENSED GEOTECH ENGINEER. G.C. SHALL PROVIDE A COPY OF SOILS REPORT WITH ENGINEER'S RECOMMENDATIONS TO ARCHITECT WHO SHALL RE-EVALUATE AND IF NECESSARY REDESIGN THE FOUNDATION SYSTEM PRIOR TO BEGINNING THIS FOUNDATION WORK.
- 1B. ABOVE SECTIONS APPLY TO SITES WITH UPPER SOILS (TOP 6) HAVING A PLASTICITY INDEX UP TO 35. A SOIL TEST SHALL BE TAKEN IN ORDER TO DETERMINE APPLICABILITY OF THESE DETAILS. OWNER SHALL CONTACT THE ARCHITECT IF SOIL IS NOT IN COMPLIANCE WITH THESE SPECIFICATIONS.
2. ALL FILL MATERIAL SHALL BE SELECT, NON-EXPANSIVE MATERIALS, PLACED AND COMPACTED IN 9" MAXIMUM LOOSE LIFTS. COMPACT EACH LIFT TO 95% STANDARD PROCTOR DENSITY.
3. BORROWED FILL MATERIAL SHALL CONSIST OF SOIL HAVING A MOISTURE CONTENT WITHIN 4% OF OPTIMUM AND A PLASTICITY INDEX OF NOT LESS THAN 10 NOR MORE THAN 17.
4. PROVIDE 4" MIN. THICKNESS OF GRANULAR FILL (COMPACTED) UNDER SLAB.
5. PROVIDE POSITIVE DRAINAGE AWAY FROM SLAB WITH AT LEAST 9" OF SLOPE AT 10' AWAY FROM FOUNDATION.
6. INSTALL .006 VISQUEEN OVER FILL UNDER CONCRETE. SEAL AROUND ALL PIPE AND LAP ALL JOINTS A MIN. OF 12".
7. AFTER PLACING GRAVEL FILL UNDER SLABS, AND PRIOR TO PLACING VAPOR BARRIER, APPLY 0.5% DIEDRIN IN OIL SOLUTION OR WATER EMULSION AT THE RATE OF 1 GALLON PER SEVEN (7) SQUARE FEET. SUCH APPLICATION SHALL BE MADE BY A STATE LICENSED EXTERMINATOR AND HAVE A MIN. OF 5 YEAR WARRANTY.
8. NOT USED
9. ALL CONCRETE SHALL CONFORM TO CURRENT ACI SPECIFICATIONS AND SHALL BE REGULAR SAND AND GRAVEL WITH A MINIMUM OF 3500 P.S.I. IN 28 DAYS.
10. PROVIDE NECESSARY ACCESSORIES TO HOLD REINFORCING BARS IN THE PROPER POSITION.
11. #5 BARS AND SMALLER SHALL BE DEFORMED GRADE 40. #6 AND GREATER SHALL BE GRADE 60.
12. LAP #4 BARS 20" MIN. AT SPLICE. PROVIDE 4 #4 CORNER BARS (20" X 20") AT CORNERS.



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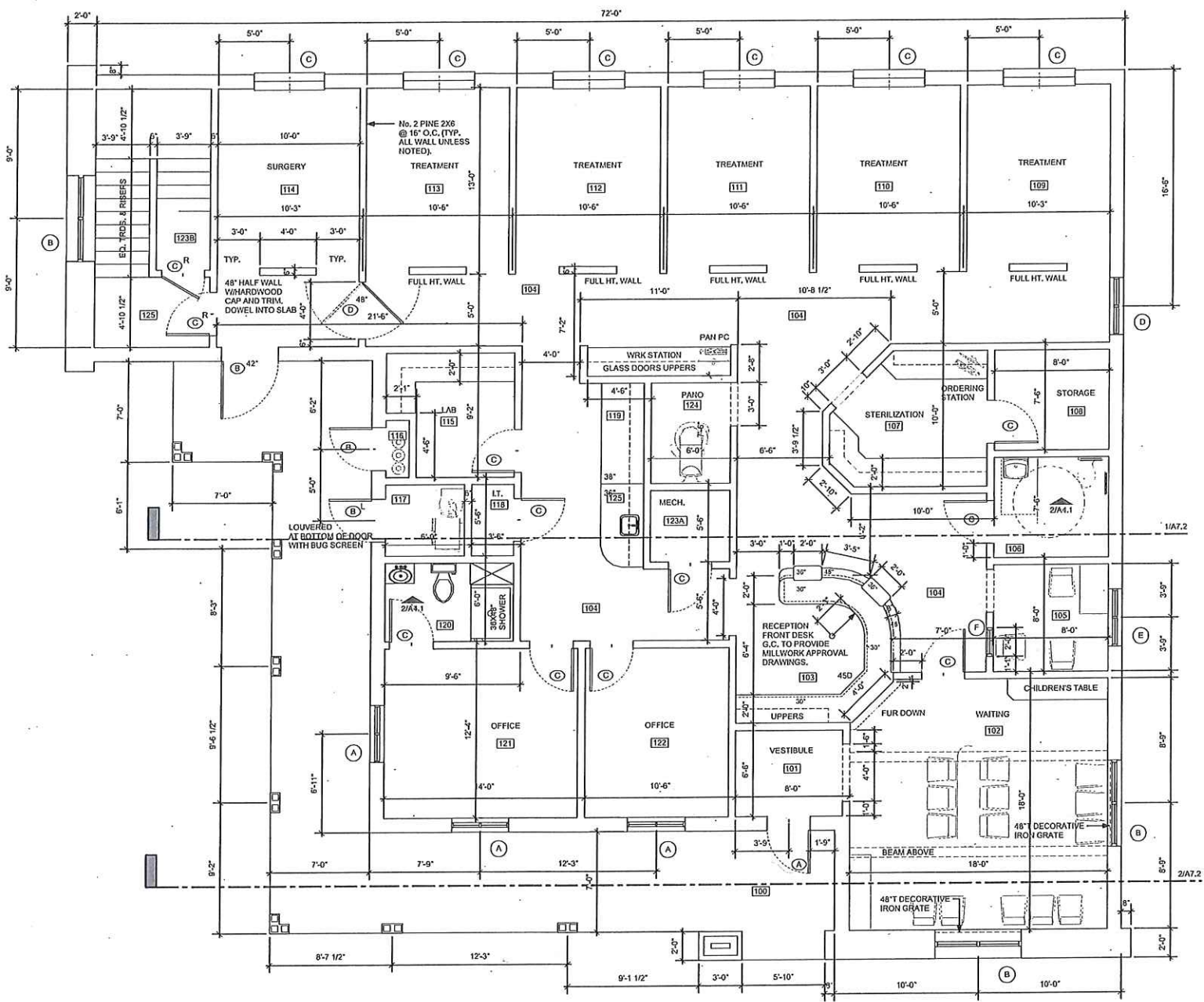
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A3.1

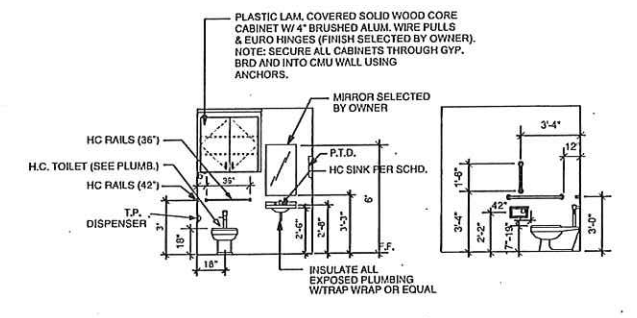
A NEW BUILDING FOR:
Mansdale Dental • Dr. Keith Brown, DMD
 VILLAGE AT MANNSDALE, MADISON COUNTY, MISSISSIPPI



1 BUILDING PLAN- FIRST FLOOR 3,390 GSF
 Scale: 1/4"=1'-0"

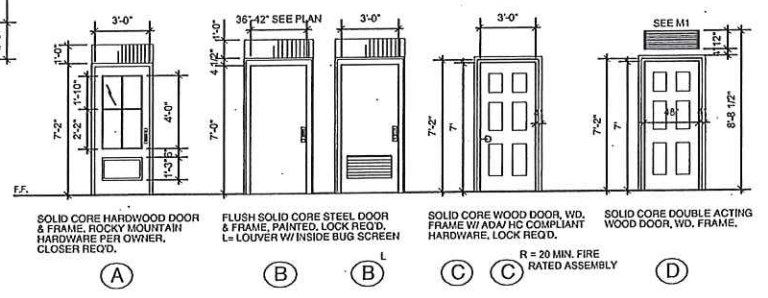
FINISH SCHEDULE		FLOOR	BASE	WALLS	Ceilings	ROOFING	NOTES
100	FRONT PORCH						
101	VESTIBULE						VAULTED
102	WAITING						
103	RECEPTION						
104	CORRIDOR						
105	CONSULT						
106	TOILET						
107	STERILIZATION						
108	STORAGE						
109-114	TREATMENT ROOMS						
115	LAB						SECURE CEILING TO PERVENT ENTRY.
116	TANKS						
117	PUMPS						
118	IT						2 LAYES 5/8" GYP.
119	STORAGE						
120	TOILET						
121	OFFICE						
122	OFFICE						
123A-B	MECHANICAL						2 LAYES 5/8" GYP. UNDER STAIRS
124	PANO						
125	STAIRS						2 LAYES 5/8" GYP.
200	CONFERENCE/BRK. RM						
201	TOILETS						
202	OPEN ATTIC						

NOTE: ALL FLOOR FINISHES SHALL MEET ADA (AMERICAN WITH DISABILITIES ACT REOMNTS.)



2 STANDARD HC MOUNTING HEIGHTS
 Scale: 1/4"=1'-0"

NOTE: ACTUAL ARRANGEMENT AND FIXTURES MAY VARY BUT CLEARANCES SHALL NOT. ALL FIXTURES & ARRANGEMENTS SHALL MEET ADA REQUIREMENTS.



3 DOOR & FRAME ELEVATIONS
 Scale: 1/4"=1'-0"

NOTES:
 1. ALL DOORS SHALL MEET BUILDING CODE REQUIREMENTS FOR GLASS TYPE.



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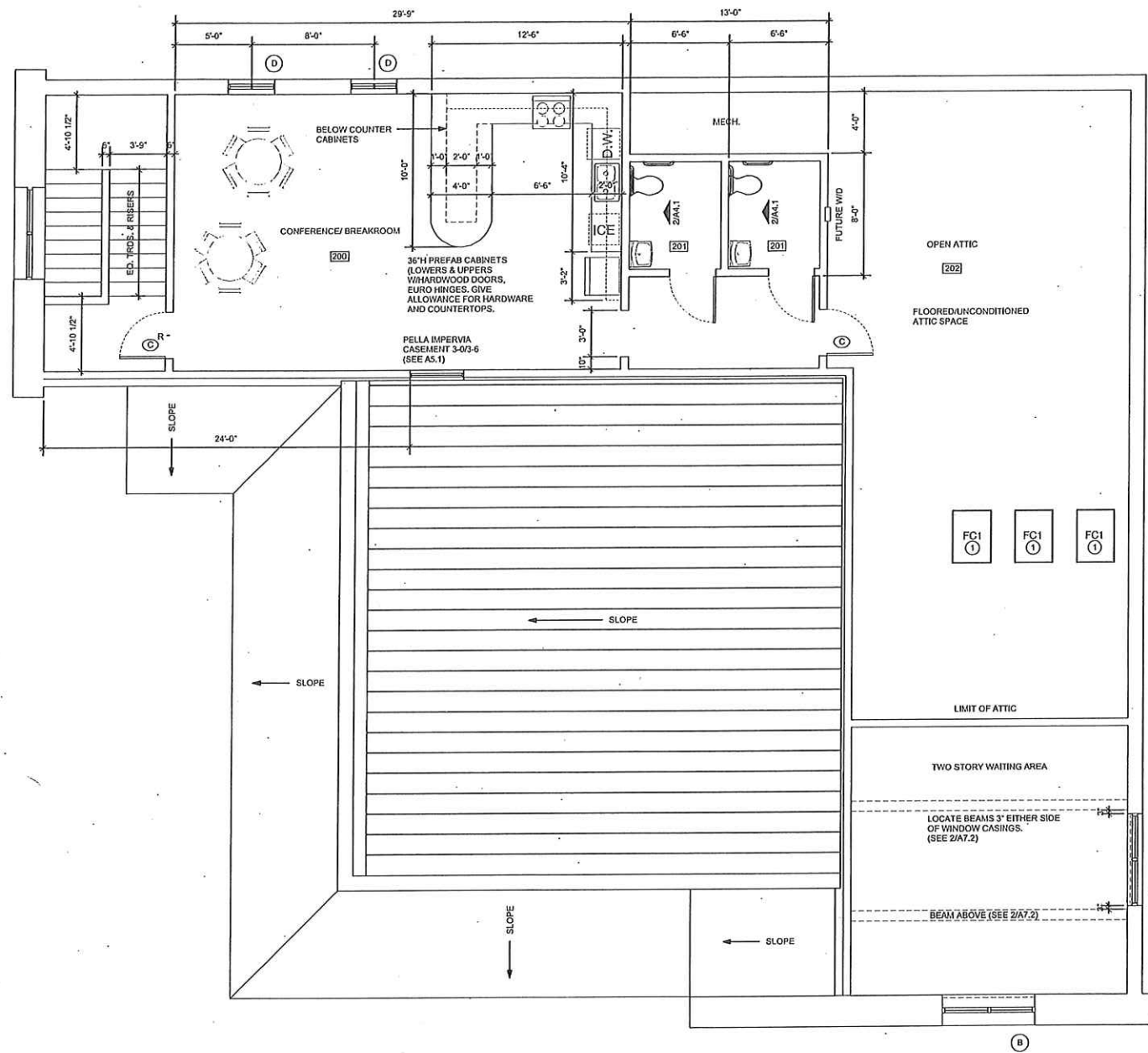
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A4.1



BUILDING PLAN- SECOND FLOOR
 Scale: 1/4"=1'-0"



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A4.2



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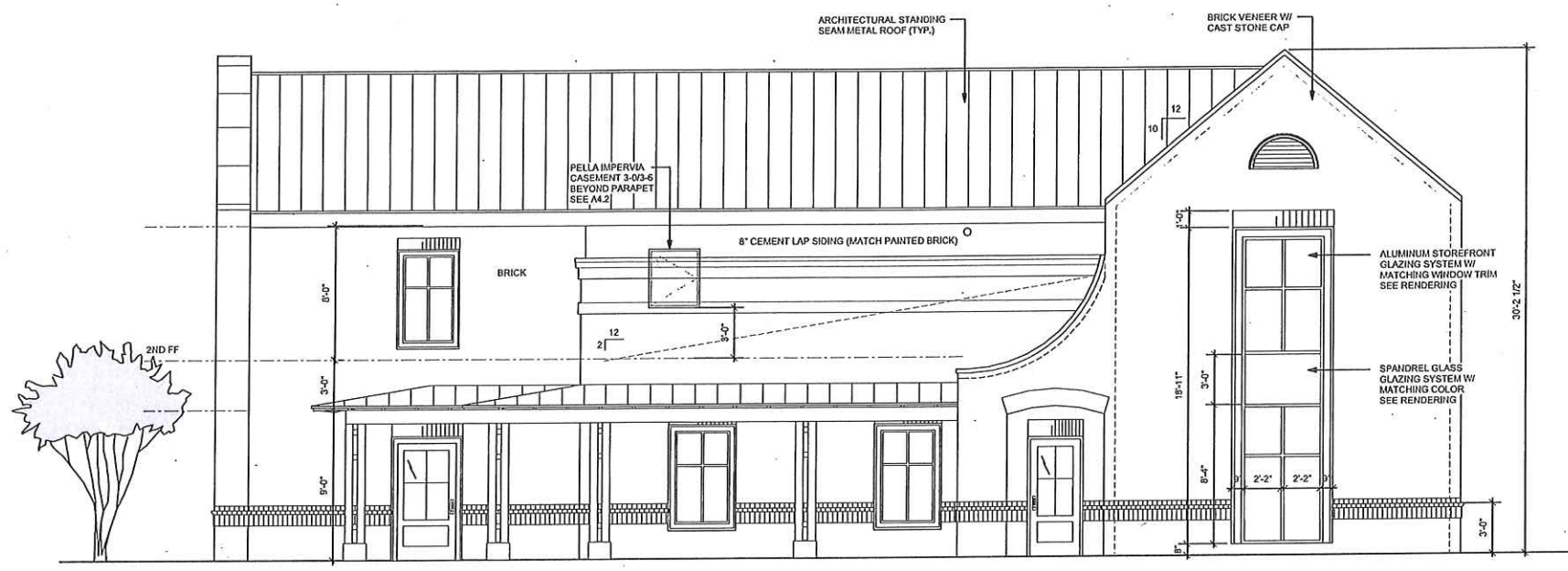


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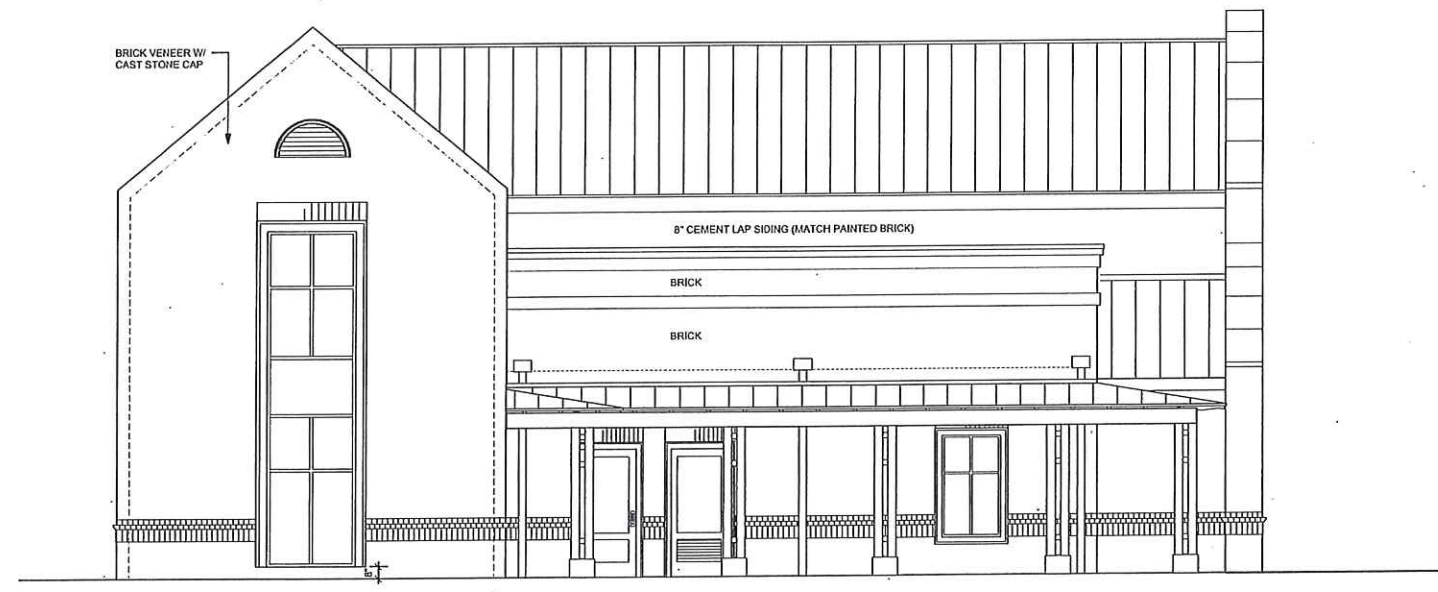
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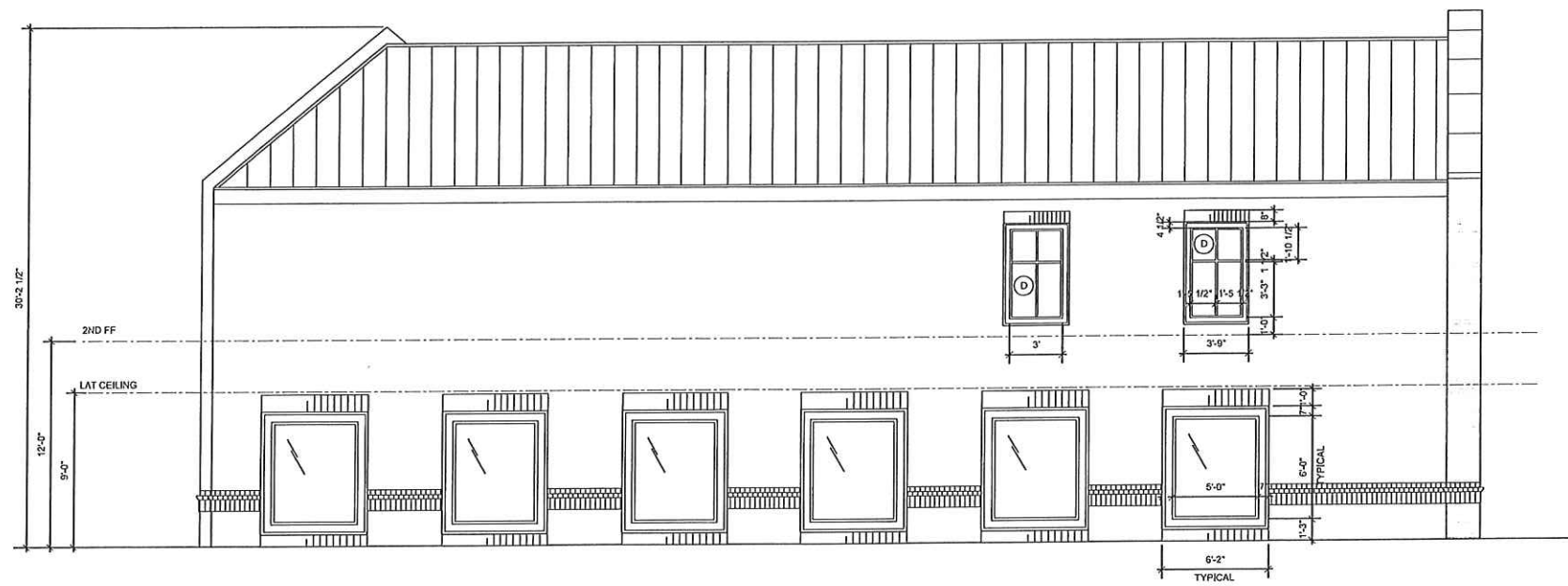
A5.1



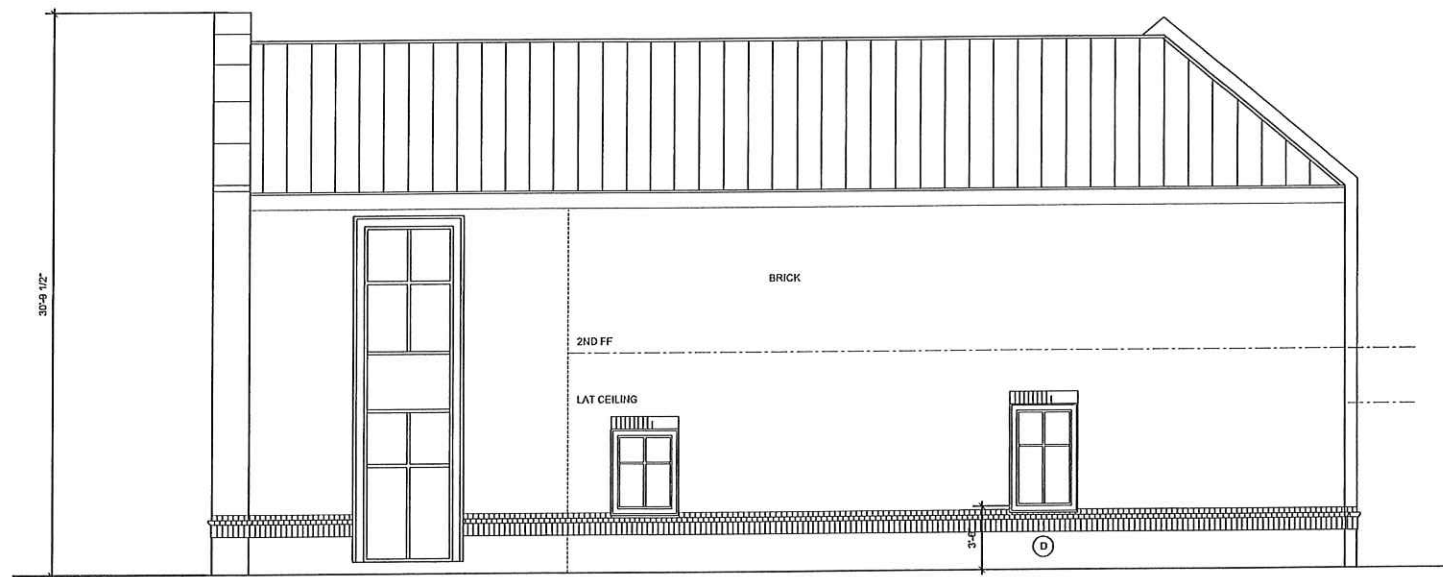
1 FRONT ELEVATION
 A5.1 Scale: 1/4"=1'-0"



2 SIDE ELEVATION
 A5.1 Scale: 1/4"=1'-0"



1
A5.2 REAR ELEVATION
Scale: 1/4"=1'-0"



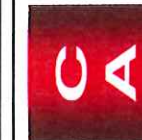
2
A5.2 SIDE ELEVATION (AGAINST BUFFER)
Scale: 1/4"=1'-0"



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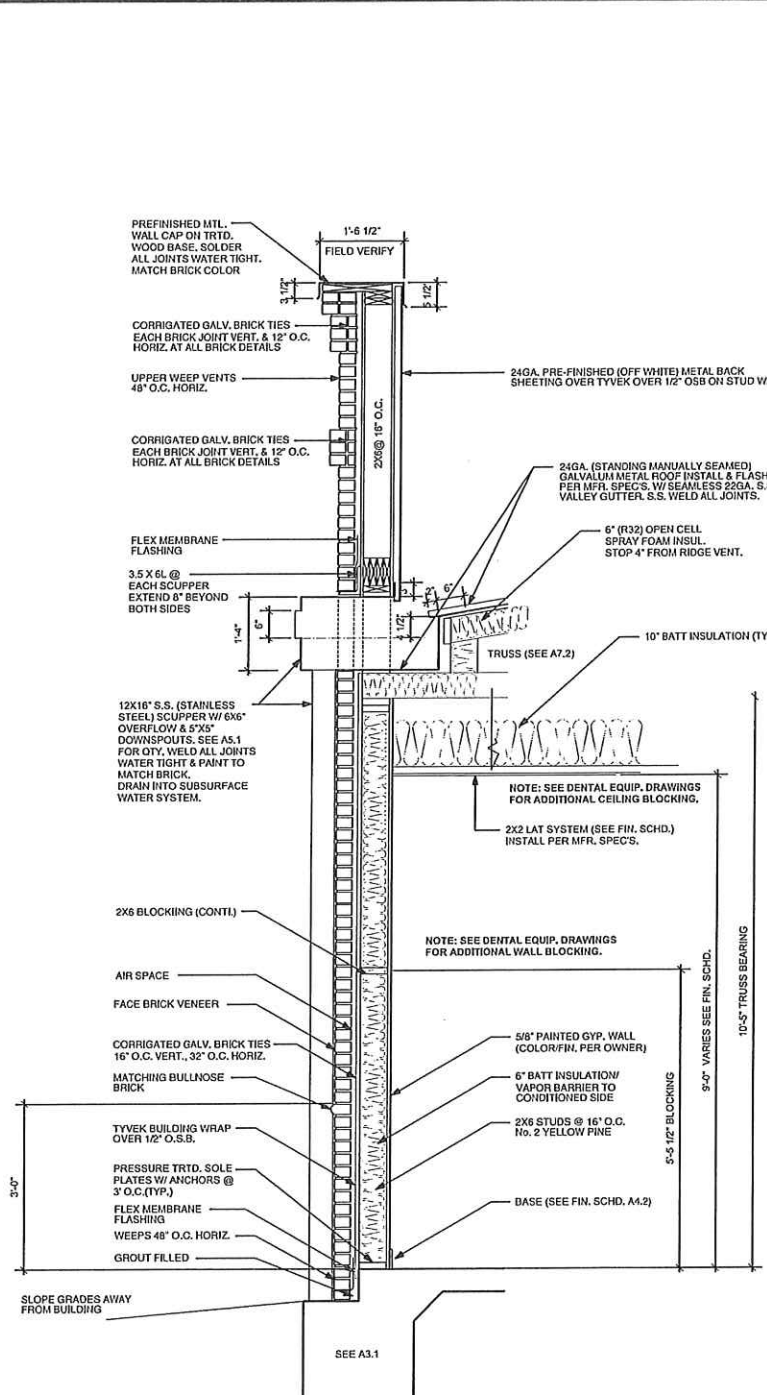
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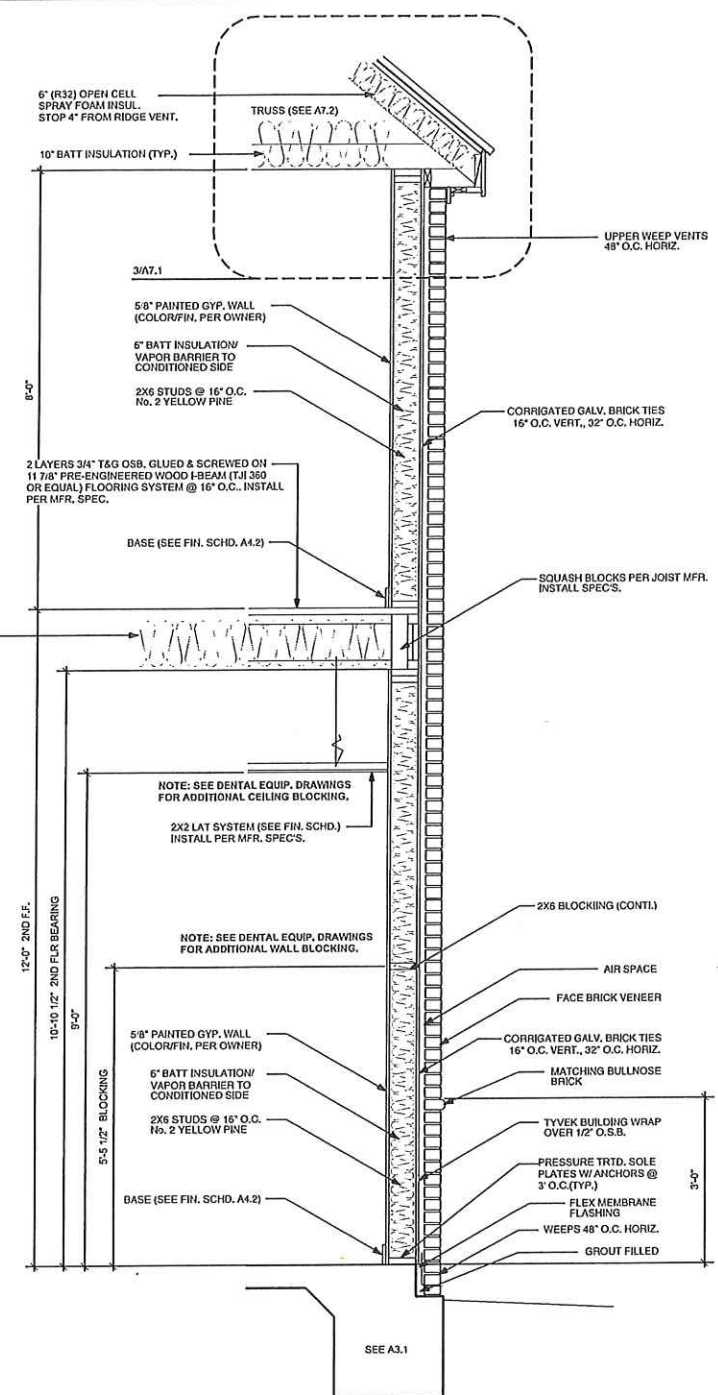
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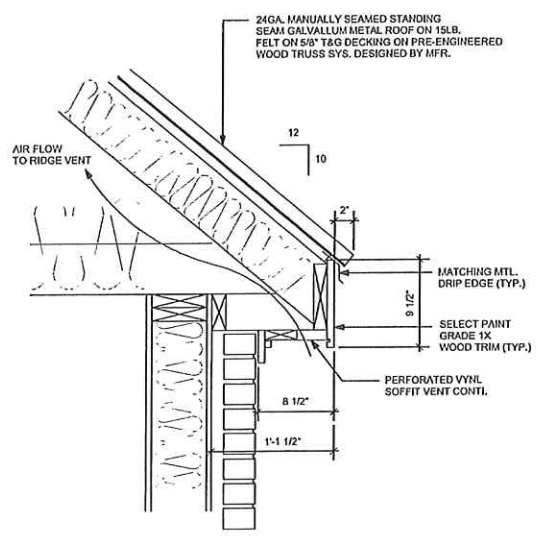
A5.2



1 WALL SECTION
A7.1 Scale: 3/4"=1'-0"



2 WALL SECTION
A7.1 Scale: 3/4"=1'-0"



3 SOFFIT DETAIL
A7.1 Scale: 1 1/2"=1'-0"



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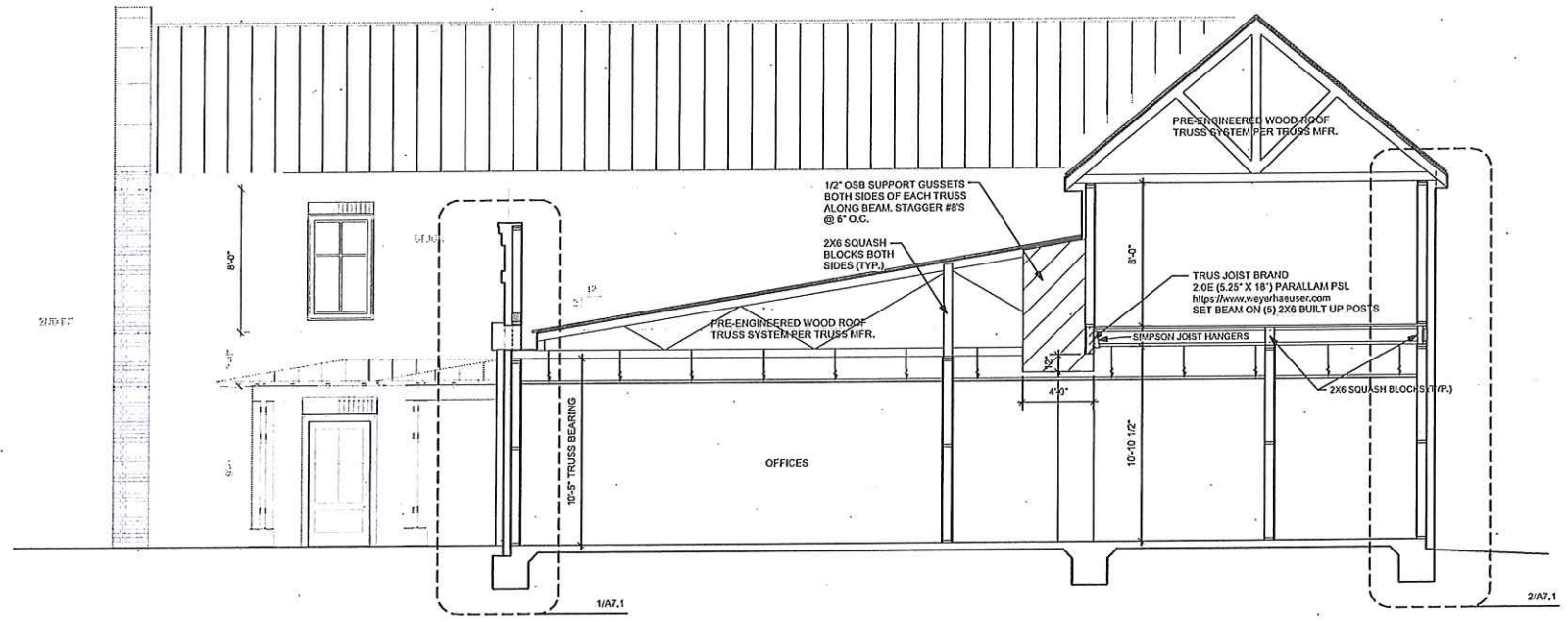


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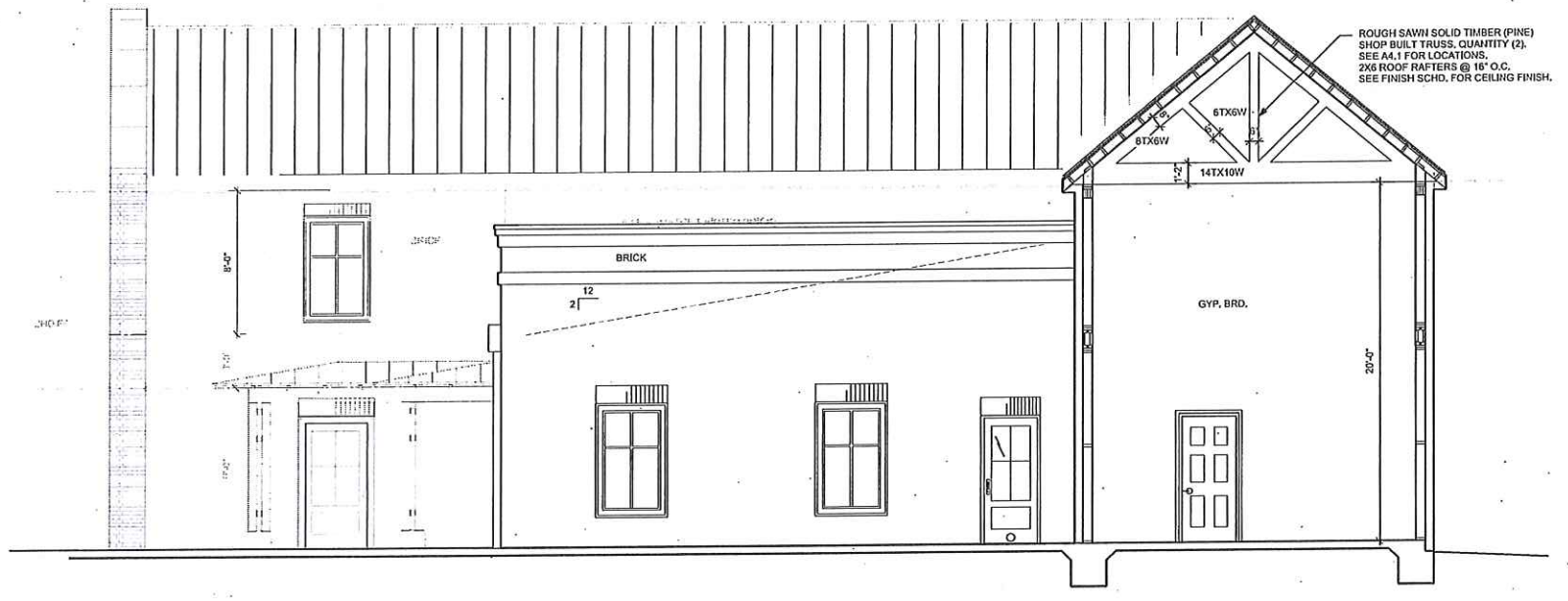
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A7.1



1 BUILDING SECTION
Scale: 1/4"=1'-0"



2 BUILDING SECTION
Scale: 1/4"=1'-0"



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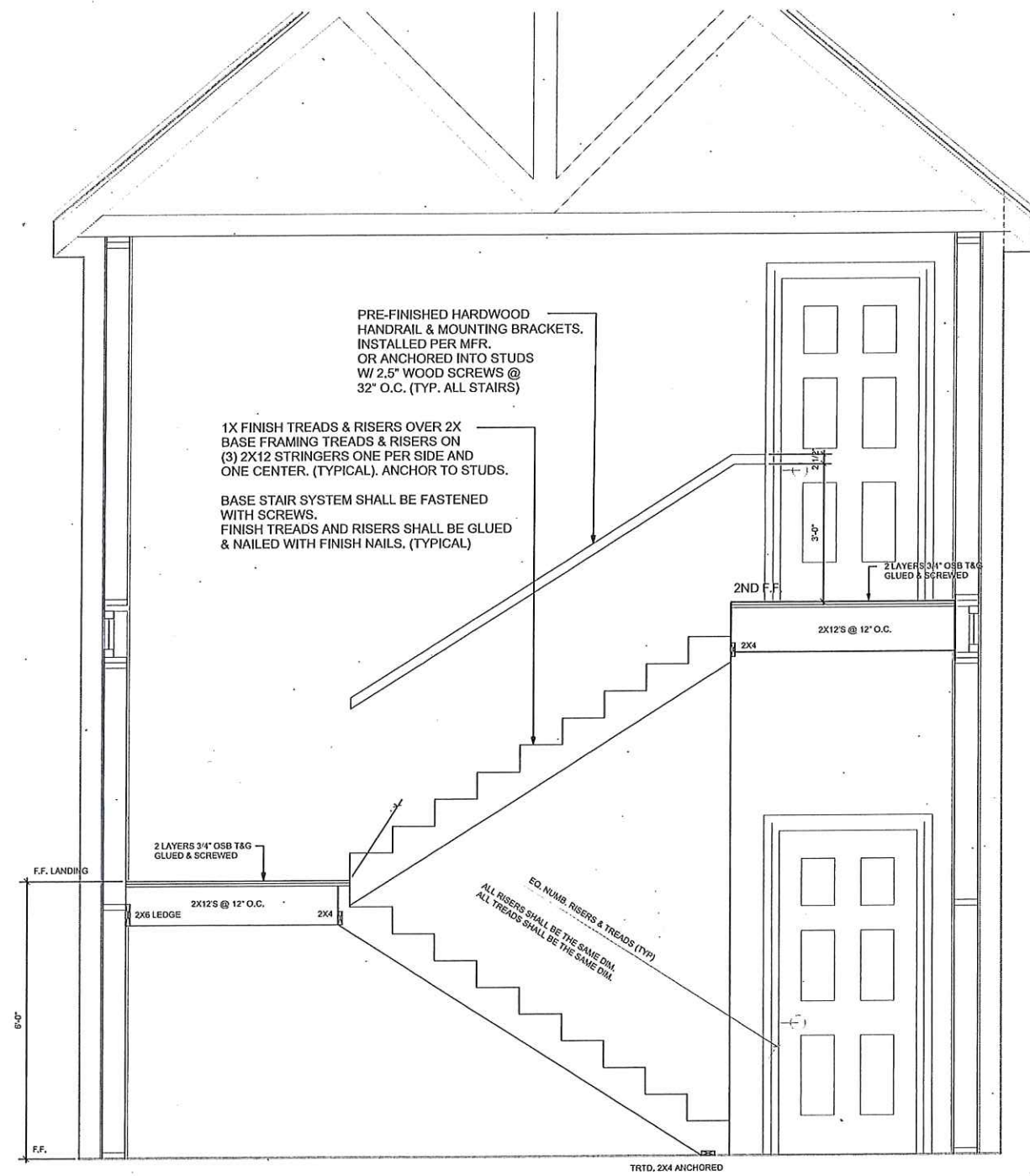
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A7.2



1 STAIR SECTION
A7.3 Scale: 3/4"=1'-0"



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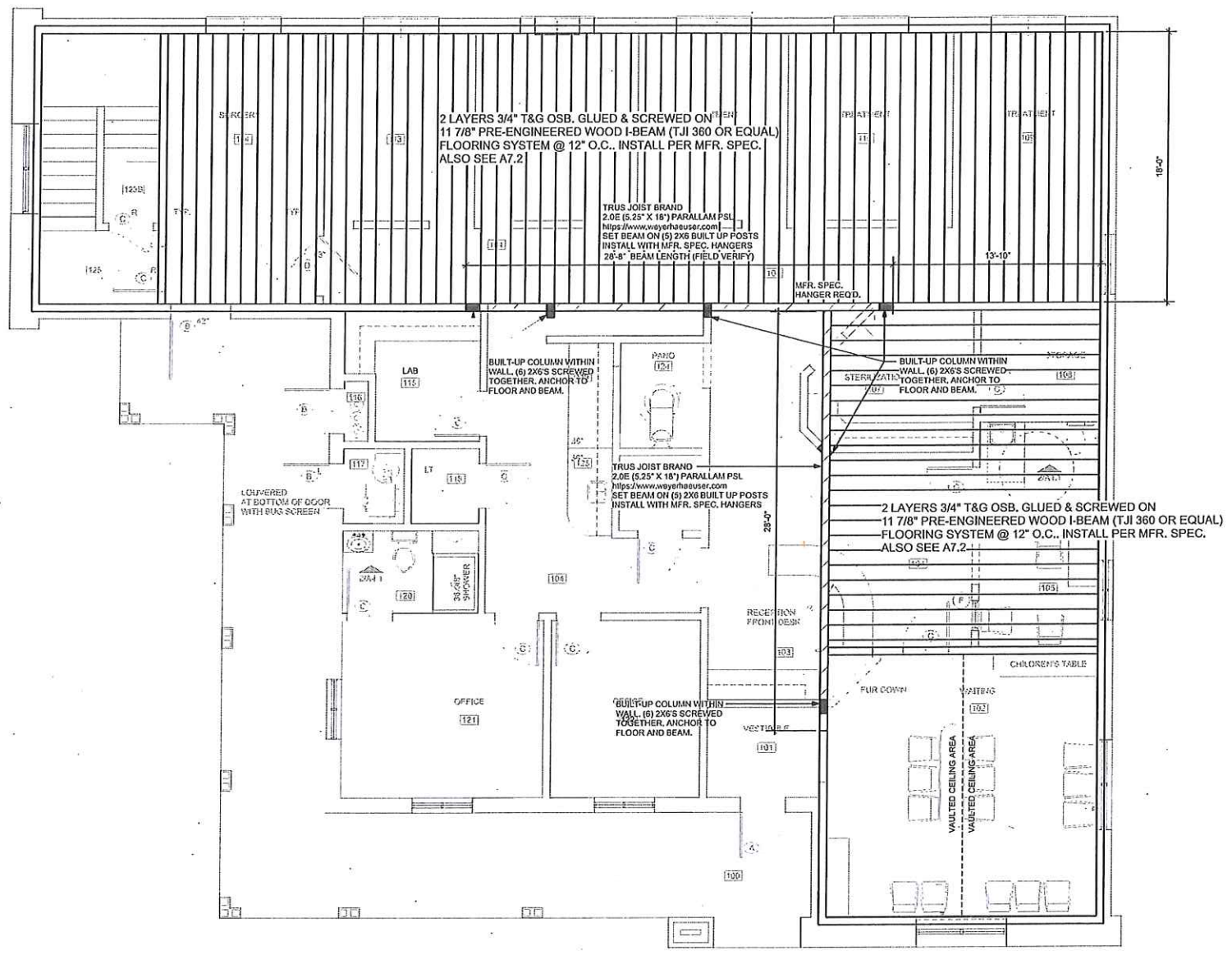


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A7.3



1 SECOND FLOOR FRAMING
 A7.4 Scale: 1/4"=1'-0"



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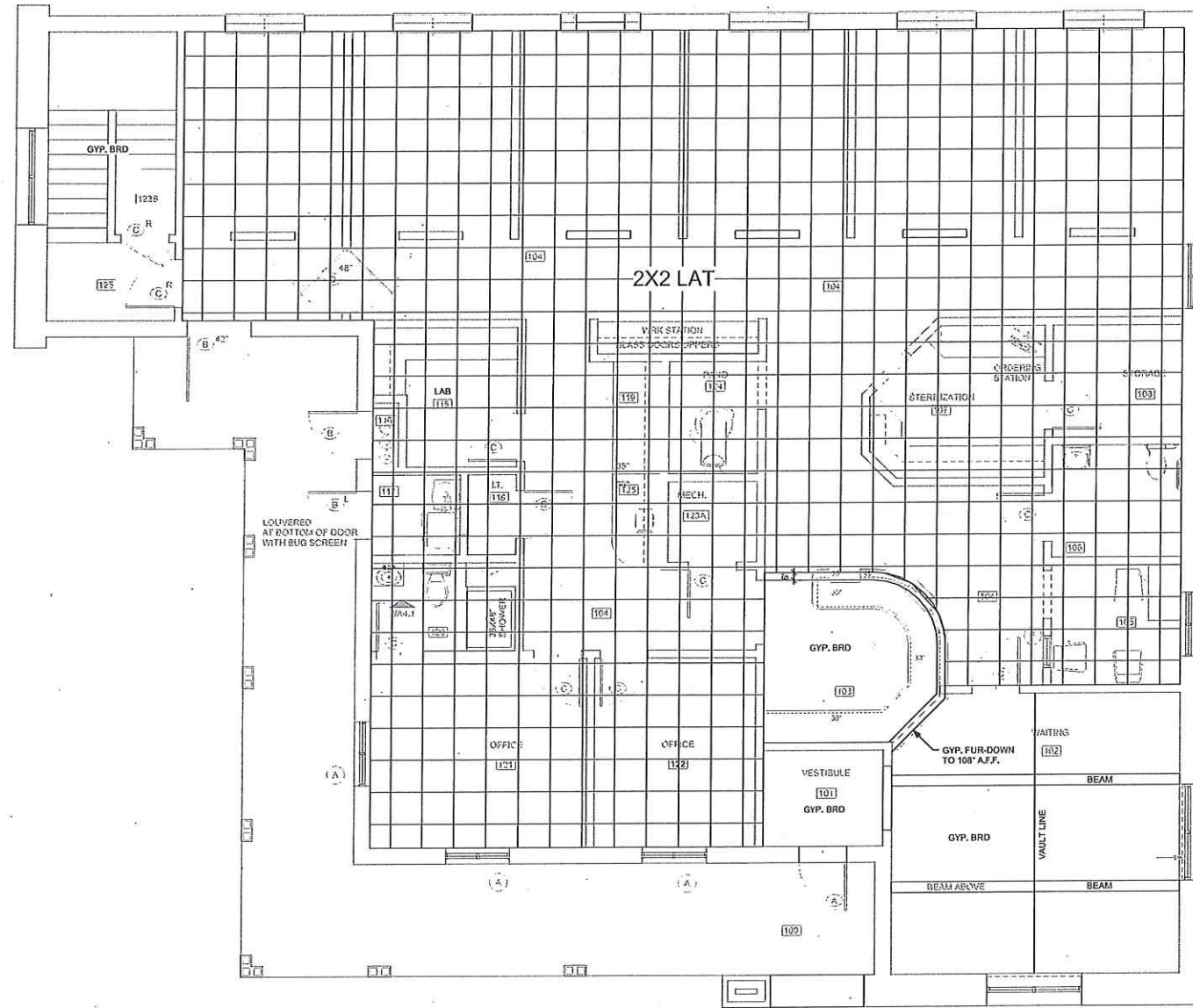


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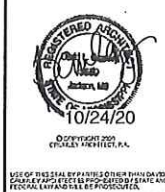
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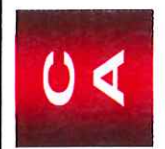


REFLECTED CEILING PLAN- FIRST FLOOR
 Scale: 1/4"=1'-0"



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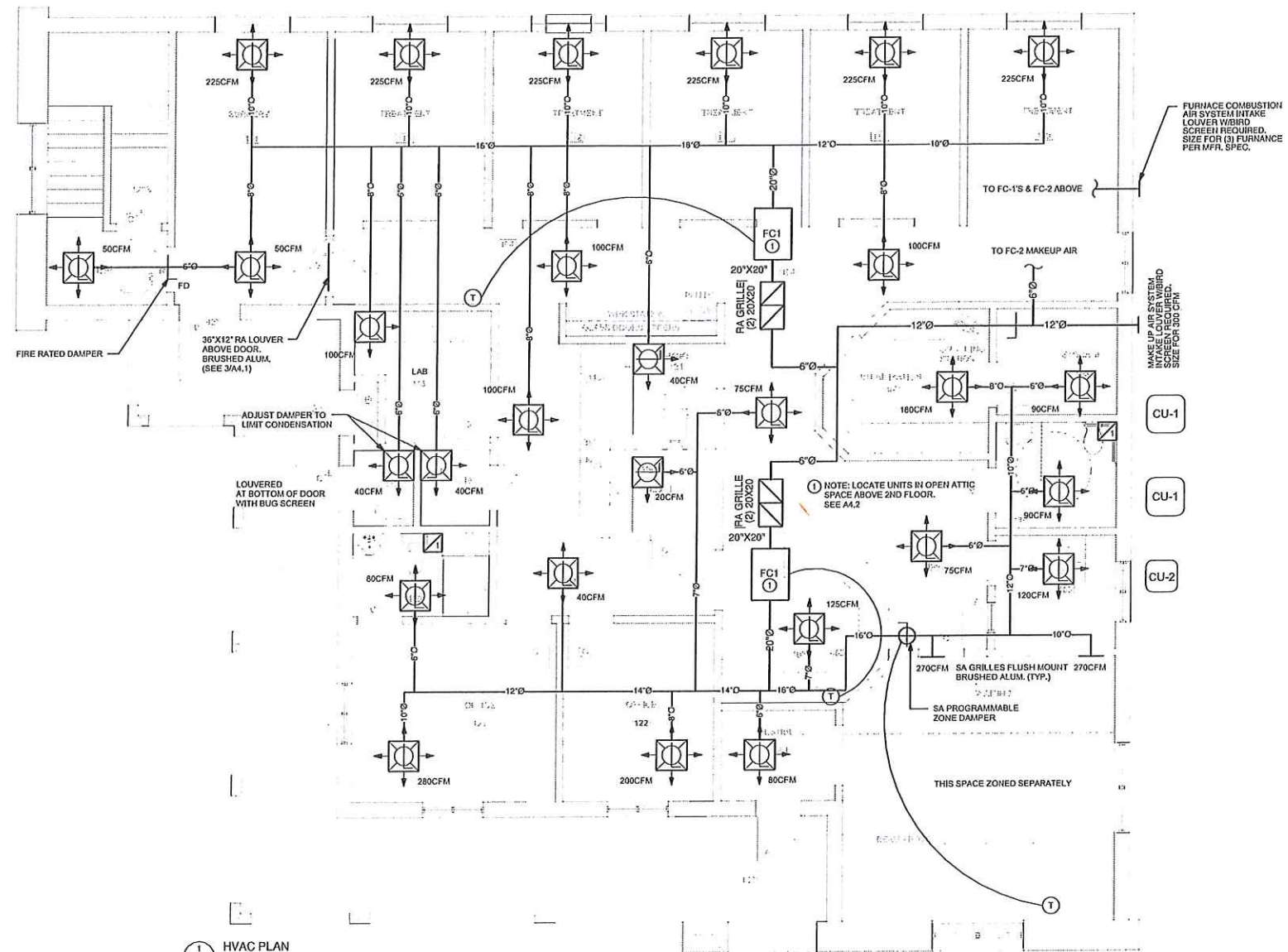


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A9.1



1 HVAC PLAN
Scale: 1/8"=1'-0"

COORDINATE HVAC GRILLES AROUND LIGHTING. SEE LIGHTING SHEET.

HVAC SCHEDULE

OUTDOOR CONDENSING UNIT SCHEDULE

MARK	MAKE	MODEL	TONS	VOLTS	PHASE	MCA*	OCF**	USE WITH
CU1	RHEEM	RA16	5.0	208/230	1	34.0	50AMP	FC1
CU2	RHEEM	RA16	3.5	208/230	1	25.0	40AMP	FC2

INDOOR AIR HANDLER SCHEDULE

MARK	MAKE	MODEL	TONS	VOLTS	PHASE	STRIP HEAT (KW)	MCA*	OCF**	USE WITH
FC1	RHEEM	R801CA1005		115	1	NA	10	15AMP	MATCHING GAS HEAT
FC2	RHEEM	R801CA1004		115	1	NA	10	15AMP	MATCHING GAS HEAT

*MCA= MINIMUM CIRCUIT AMPS
**OCF= OVER CURRENT PROTECTION (INCLUDES HEAT WHERE APPLICABLE)

NOTES:

1. RESTROOMS TO HAVE EXHAUST FANS WITH MINIMUM OF 50 CFM VENT TO THE OUTSIDE.
2. ALL DUCT TO BE HARD METAL ROUND PIPE UNLESS NOTED OTHERWISE. ROUND PIPE TO BE WRAPPED WITH 2" FIBERGLASS INSULATION. RECTANGULAR DUCT TO BE LINED WITH 1" INSULATION. METAL DUCT TO BE 22 GAUGE (MINIMUM).
3. A MAXIMUM OF FIVE FEET FLEX DUCT IS ACCEPTIBLE FOR EACH SUPPLY AIR GRILLE.
4. ANY DEVIATION FROM THE ABOVE MECHANICAL SCHEDULE MUST BE APPROVED BY ARCHITECT IN WRITING.

HVAC NOTES:

GENERAL NOTES:

1. INSTALLATION
 2. THERMOSTATS SHALL BE LOCATED: EXACT LOCATION SHALL BE DETERMINED BY OWNER.
 3. COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ALL OTHER PLANS
 4. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COORDINATION OF WORK OF ALL TRADES TO ASSURE PROPER INSTALLATION AND CLEARANCES. DRAWINGS ARE ESSENTIALLY DIAGRAMMATICAL AND THEREFORE CONTRACTOR SHOULD PLAN EXACT ROUTING OF DUCT AND PIPE BASED ON FIELD CONDITIONS. PROVIDE ADDITIONAL TRANSITIONS AND OFFSETS AS NECESSARY (AT NO ADDITIONAL COST TO OWNER) TO COMPLETE INSTALLATION AND MAINTAIN REQUIRED CLG. HEIGHTS.
 5. INSTALLATION OF ALL EQUIPMENT AND SYSTEMS SHALL BE IN ACCORDANCE WITH STANDARD DETAILS, SECTIONS AND ELEVATIONS SHOWN ON THE DRAWINGS AND OR MFR. SPEC.
6. CONTRACTOR SHALL MAINTAIN A CLEAR SERVICE AREA AROUND ALL EQUIPMENT FOR MAINTENANCE SUCH AS, FILTER REMOVAL, MOTOR AND DRIVE ADJUSTMENTS, COIL AND TUBE CLEANING OR REMOVAL.
 7. ALL HVAC SYSTEMS TO HAVE FILTERS LOCATED IN RA GRILLES.
 8. ALL CONDENSATE LINES SHALL BE RUN TO NEAREST VENT STACK (INDIRECT CONNECT) OR OUTSIDE WALL & DOWN TO 6" ABOVE GRADE AND CONNECTED PER LOCAL CODE.
1. ALL DUCT RUNOUTS TO DIFFUSERS, RETURN AIR GRILLES AND EXHAUST GRILLES SHALL BE COMPLETE WITH VOLUME DAMPERS UNLESS NOTED OTHERWISE. LOCATE DAMPERS SO THEY ARE ACCESSIBLE FROM LAY-IN CEILING OR ACCESS DOORS.
 2. ROUND SUPPLY RUNOUTS TO DIFFUSERS SHALL BE HARD METAL TO WITHIN 5'-0" DEVELOPED LENGTH FROM DIFFUSER. NO FLEXIBLE DUCT ALLOWED.
 3. DUCT TRANSITIONS SHALL BE PROVIDED AS REQUIRED FROM ALL EQUIPMENT CONNECTIONS TO DUCT SIZES INDICATED ON DRAWINGS.
- NOTE: G.C. SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES TO THIS AND ALL DRAWINGS



USE OF THIS SEAL BY ANY OTHER PERSON WITHOUT THE SIGNATURE OF THE ENGINEER IS UNLAWFUL AND SUBJECT TO PENALTY PER MISSISSIPPI BOARD OF PROFESSIONAL ENGINEERS.

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A NEW BUILDING FOR:
Mansdale Dental • Dr. Keith Brown, DMD
VILLAGE AT MANNSDALE, MADISON COUNTY, MISSISSIPPI



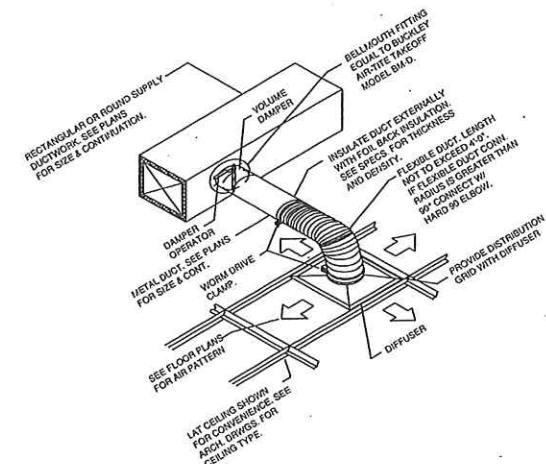
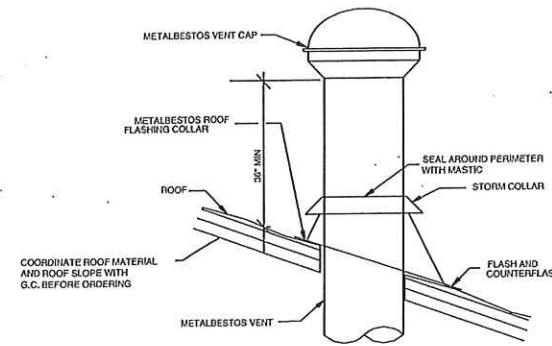
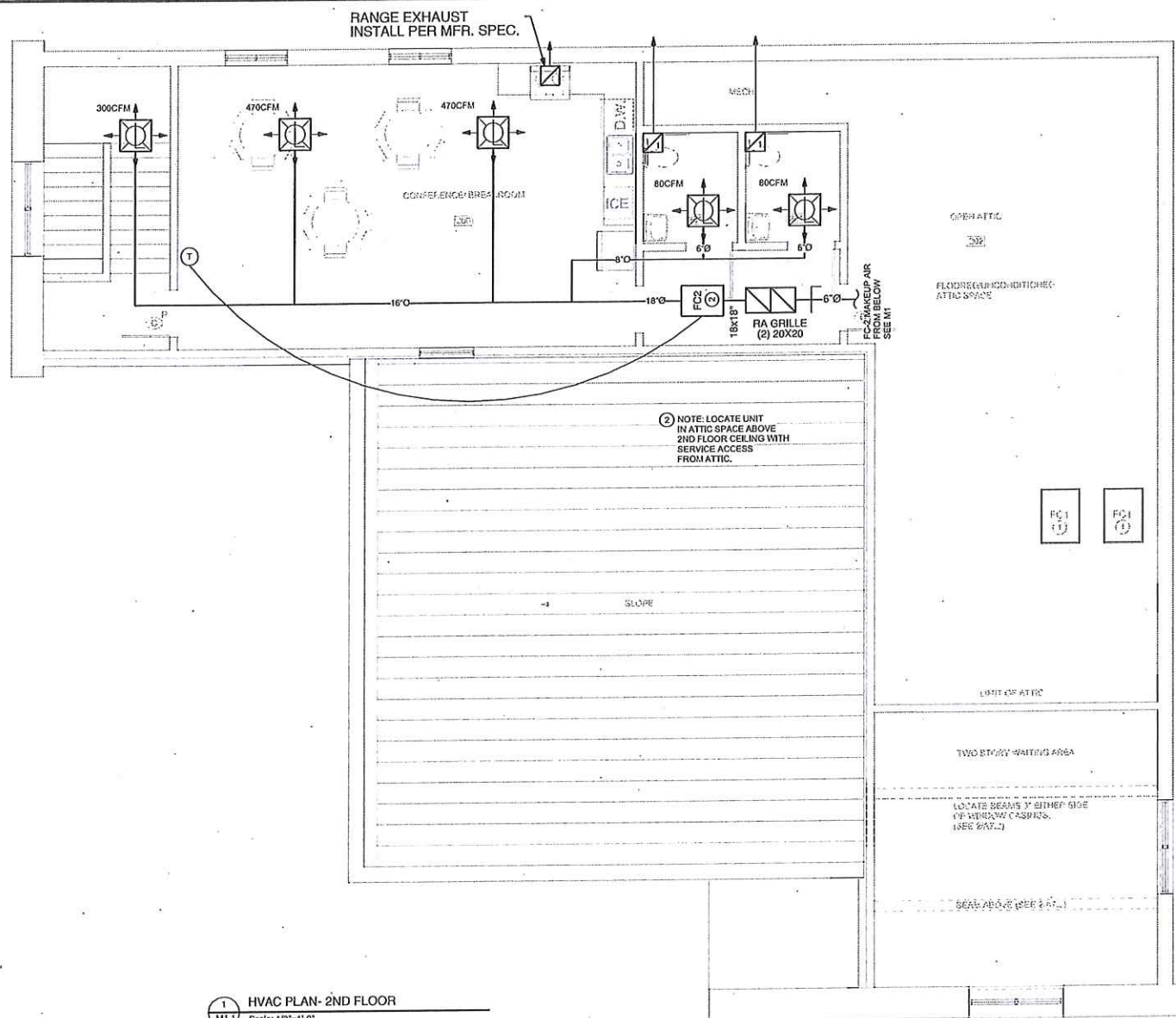
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M1



HVAC SCHEDULE

OUTDOOR CONDENSING UNIT SCHEDULE								
MARK	MAKE	MODEL	TONS	VOLTS	PHASE	MCA*	OCF**	USE WITH
CU1	RHEEM	RA16	5.0	208/230	1	34.0	50AMP	FC1
CU2	RHEEM	RA16	3.5	208/230	1	25.0	40AMP	FC2

INDOOR AIR HANDLER SCHEDULE									
MARK	MAKE	MODEL	TONS	VOLTS	PHASE	STRIP HEAT (KW)	MCA*	OCF**	USE WITH
FC1	RHEEM	R801CA1005		115	1	NA	10	15AMP	MATCHING GAS HEAT
FC2	RHEEM	R801CA1004		115	1	NA	10	15AMP	MATCHING GAS HEAT

*MCA - MINIMUM CIRCUIT AMPS
**OCF - OVER CURRENT PROTECTION (INCLUDES HEAT WHERE APPLICABLE)

- NOTES:
- RESTROOMS TO HAVE EXHAUST FANS WITH MINIMUM OF 50 CFM VENT TO THE OUTSIDE.
 - ALL DUCT TO BE HARD METAL ROUND PIPE UNLESS NOTED OTHERWISE. ROUND PIPE TO BE WRAPPED WITH 2" FIBERGLASS INSULATION. RECTANGULAR DUCT TO BE LINED WITH 1" INSULATION. METAL DUCT TO BE 26 GAUGE (MINIMUM).
 - A MAXIMUM OF FIVE FEET FLEX DUCT IS ACCEPTABLE FOR EACH SUPPLY AIR GRILLE.
 - ANY DEVIATION FROM THE ABOVE MECHANICAL SCHEDULE MUST BE APPROVED BY ARCHITECT IN WRITING.

HVAC NOTES:

GENERAL NOTES:

- INSTALLATION
- ALL PIPING OR DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILINGS.
- THERMOSTATS SHALL BE LOCATED: EXACT LOCATION SHALL BE DETERMINED BY OWNER. (1)
- COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ALL OTHER PLANS
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COORDINATION OF WORK OF ALL TRADES TO ASSURE PROPER INSTALLATION AND CLEARANCES. DRAWINGS ARE ESSENTIALLY DIAGRAMMATICAL AND THEREFORE CONTRACTOR SHOULD PLAN EXACT ROUTING OF DUCT AND PIPE BASED ON FIELD CONDITIONS. PROVIDE ADDITIONAL TRANSITIONS AND OFFSETS AS NECESSARY (AT NO ADDITIONAL COST TO OWNER) TO COMPLETE INSTALLATION AND MAINTAIN REQUIRED CLG. HEIGHTS.
- INSTALLATION OF ALL EQUIPMENT AND SYSTEMS SHALL BE IN ACCORDANCE WITH STANDARD DETAILS, SECTIONS AND ELEVATIONS SHOWN ON THE DRAWINGS AND OR MFR. SPEC.
- CONTRACTOR SHALL MAINTAIN A CLEAR SERVICE AREA AROUND ALL EQUIPMENT FOR MAINTENANCE SUCH AS, FILTER REMOVAL, MOTOR AND DRIVE ADJUSTMENTS, COIL AND TUBE CLEANING OR REMOVAL.
- ALL HVAC SYSTEMS TO HAVE FILTERS LOCATED IN RA GRILLES.
- ALL CONDENSATE LINES SHALL BE RUN TO NEAREST VENT STACK (INDIRECT CONNECT) OR OUTSIDE WALL & DOWN TO 6" ABOVE GRADE AND CONNECTED PER LOCAL CODE.
- DUCTWORK
 - ALL DUCT RUNOUTS TO DIFFUSERS, RETURN AIR GRILLES AND EXHAUST GRILLES SHALL BE COMPLETE WITH VOLUME DAMPERS UNLESS NOTED OTHERWISE. LOCATE DAMPERS SO THEY ARE ACCESSIBLE FROM LAY-IN CEILING OR ACCESS DOORS.
 - ROUND SUPPLY RUNOUTS TO DIFFUSERS SHALL BE HARD METAL TO WITHIN 5'-0" DEVELOPED LENGTH FROM DIFFUSER. NO FLEXIBLE DUCT ALLOWED.
 - DUCT TRANSITIONS SHALL BE PROVIDED AS REQUIRED FROM ALL EQUIPMENT CONNECTIONS TO DUCT SIZES INDICATED ON DRAWINGS.

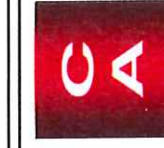
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DR. KEITH BROWN, DMD
10/24/20
DENTAL ARCHITECT, P.A.

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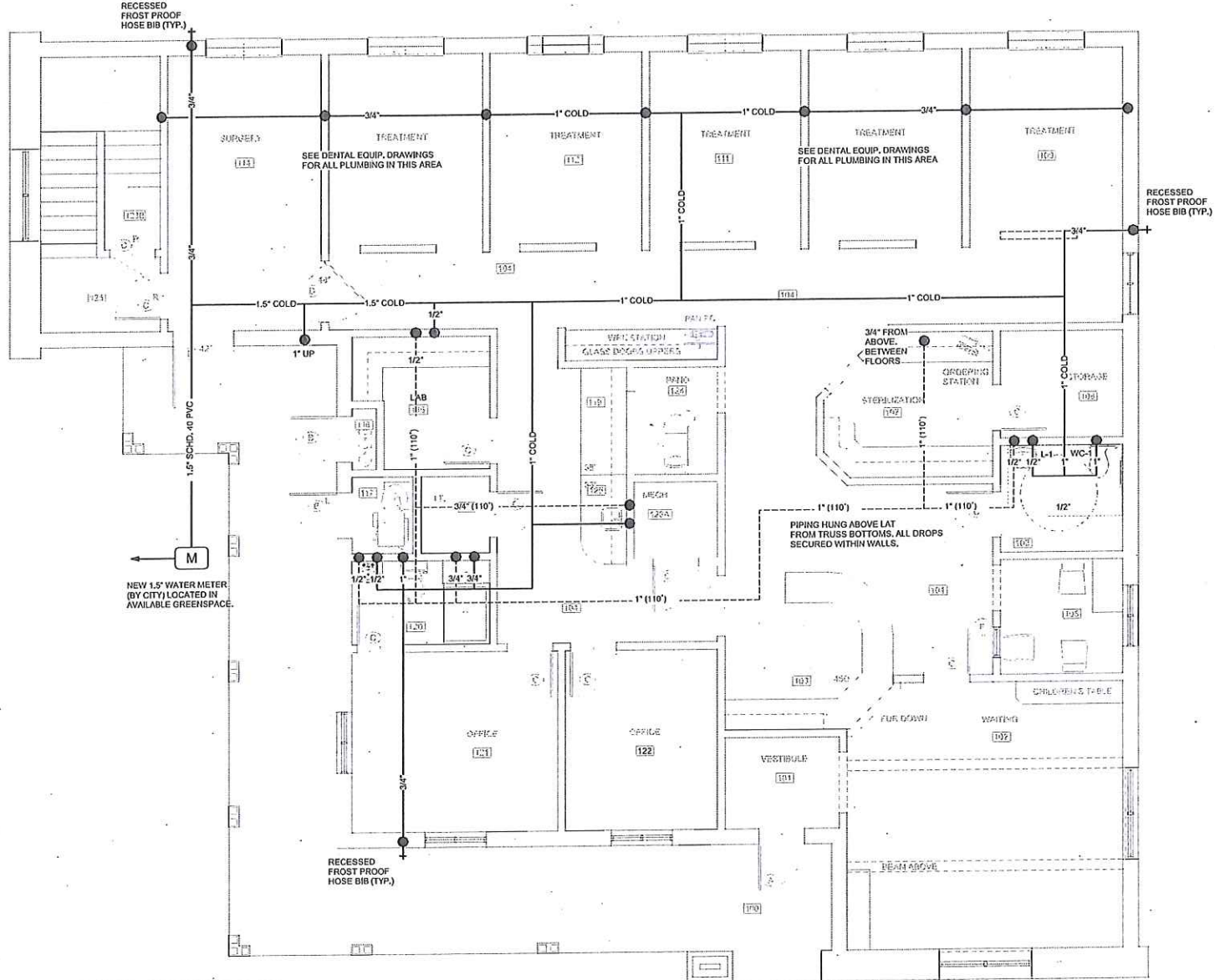
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M1.1



1 PRESSURE PIPING- FIRST FLOOR
 Scale: 1/4"=1'-0"
 ALSO SEE DENTAL EQUIPMENT DRAWINGS FOR PLUMBING

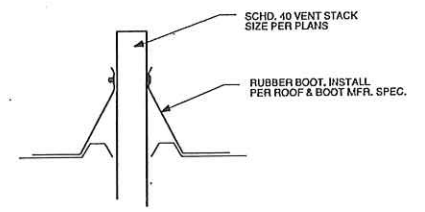
PLUMBING FIXTURE SCHEDULE									
MARK	DESCRIPTION	MAKE	MODEL	SUPPLY FITTING	SUPPLY PIPE(S)	DRAIN	TRAP	ROUGH-IN SIZES C.W. H.W. WASTE VENT	REMARKS
WS1	50 GAL. LOW-BOY ELEC. INST. PER MFL SPEC. POP-OFF & DRAIN TO OUTSIDE OR NEAREST VENT STACK & WRITING TRAP								
WC1-0	WATER CLOSET, FURNISH, FLUSH VALVE	KOHLER	K-45257669C ADU	PER MFL	1"	4"		1" - SEE PLAN	SEE PLAN CO. 04-555.11
L-1	LAB SINK, WALL MOUNTED BY ARCHITECT, CHROME FINISH, 18" WIDE		K-1214VWDE, 18" WIDE	PER MFL	3/4"	2"		1/2" 1/2" SEE PLAN	SEE PLAN
PSA	HAMMER ARRESTOR	ZURN	ZURN 100						USE AT ALL PRESSURE VALVES

NOTE: FIXTURES MAY VARY BY OWNER BUT ALL FIXTURE SHALL MEET ADA (HC) STANDARDS

- GENERAL NOTES**
1. ALL SANITARY SEWER AND GREASE PIPING IF SHOWN SHALL BE BELOW FLOOR AND SLOPE AT 1/8" PER FOOT MINIMUM UNLESS NOTED OTHERWISE.
 2. ALL VENT PIPING SHALL BE ABOVE CEILING UNLESS NOTED OTHERWISE.
 3. CONTRACTOR SHALL COORDINATE SEWER INVERTS WITH CIVIL CONTRACTOR BEFORE INSTALLING PIPE.
 4. ALL CONDENSATION PIPING SHALL BE 2" SLOPED AT 1/8" PER FOOT. PROVIDE A 6" RUNNING P-TRAP AT EACH UNIT, DRAIN INTO VENT STACKS.
 5. ALL WASTE & VENT PIPING SHALL BE SCHD. 40 PVC UNLESS NOTED OTHERWISE.
 6. ALL ABOVE GRADE PRESSURE PIPING SHALL COPPER. ALL BELOW GRADE SHALL BE SCHD. 40 PVC UNLESS NOTED OTHERWISE.
 7. PLUMBING SHALL BE INSTALLED PER LOCAL PLUMBING & BUILDING CODES.

UNDERSLAB PIPING- ALL PIPING OF ANY TYPE & SIZE SHALL MAINTAIN A CLEARANCE OF 18" OR 2" (IF RELIEVING ARCHES ARE USED) UNDER FOOTINGS AND SLAB AREAS. ALL BACKFILL DIRT OVER PIPING SHALL BE "TAMPED" IN TO PLACE USING A MECHANICAL TAMPER. ALL CONCRETE PENETRATIONS SHALL PASS THROUGH PIPING SLEEVES (MIN. 4" BEYOND CONCRETE ON BOTH SIDES) AND ALLOW PIPE MOVEMENT. RELIEVING ARCHES SHALL BE PLACED ABOVE PIPING PASSING UNDER A FOOTING. IPC-305.5 IRC- P2903.5 PIPES THROUGH FOOTINGS OR FOUNDATION WALLS. ANY PIPE THAT PASSES UNDER A FOOTING OR THROUGH A FOUNDATION WALL SHALL BE PROVIDED WITH A RELIEVING ARCH; OR THERE SHALL BE BUILT INTO THE MASONRY WALL A PIPE SLEEVE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH.

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3 ROOF VENT DETAIL
 Scale: NTS
 INSTALL PER MFL SPEC.



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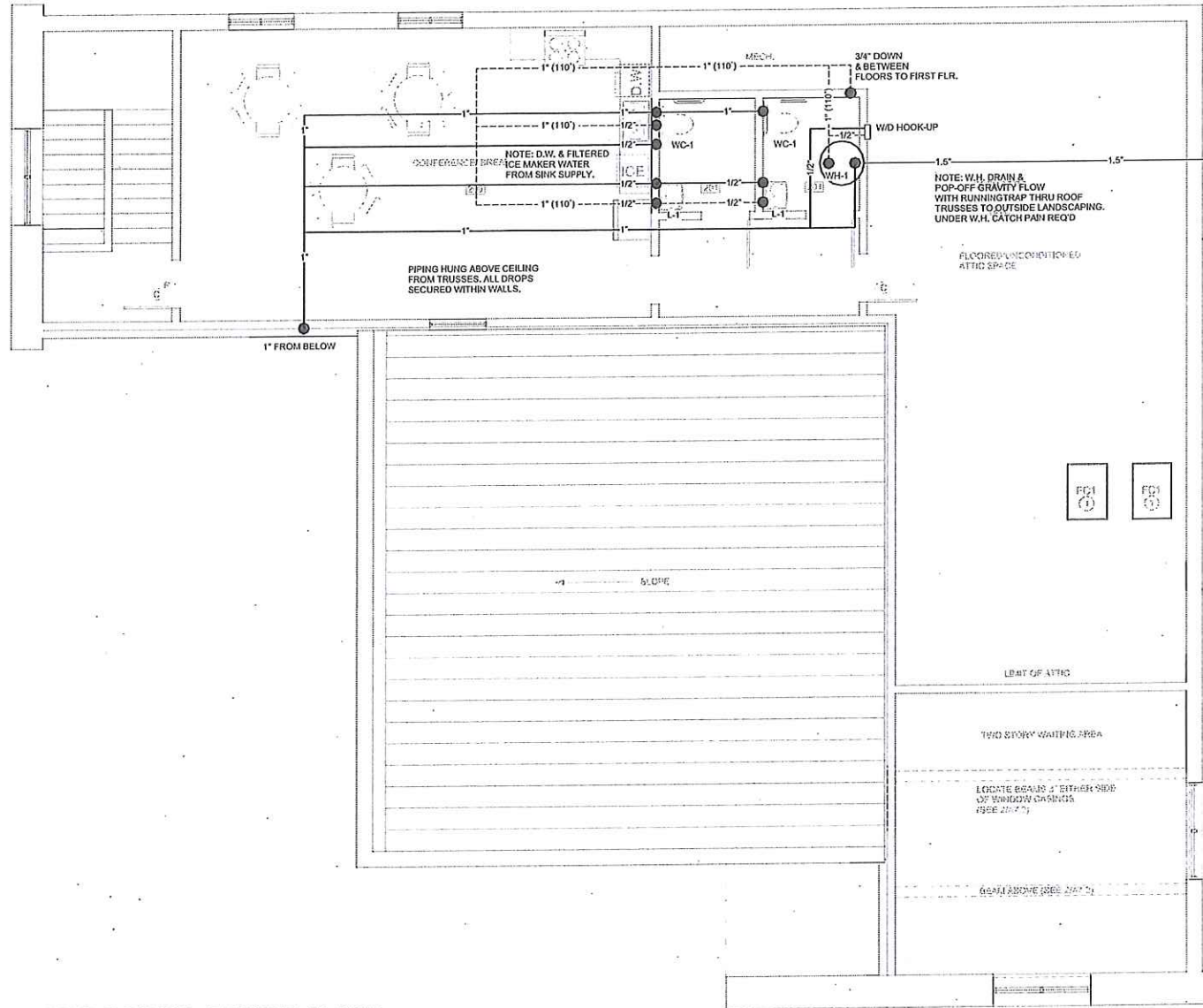
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P1



1 PRESSURE PIPING- SECOND FLOOR

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

ALSO SEE DENTAL EQUIPMENT DRAWINGS FOR PLUMBING

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MAKE	MODEL	SUPPLY FITTING	SUPPLY PIPE(S)	DRAIN	TRAP	ROUGH-IN SIZES		REMARKS	
								C.W.	I.H.W.		
WH1	40 GAL. LOW-BOY ELEC. INSTALL PER MFR SPEC. POP-OFF & DRAIN TO OUTSIDE OR NEAREST VENT STACK & W/ RUNNING TRAP										
WC1 (P)	WATER CLOS. FL. MFG. FLUG-114VVC	KOHLER	K-2025F63C-40N	PER MFR	1"	4"			SEE PLAN	SEE PLAN	20-04-210211
L1	200 S.P.W. WALL MOUNTED BY ACHER-CRENSHAW		W-1000000	PER MFR	3/4"	2"		1/2"	1/2"	SEE PLAN	SEE PLAN
PSA	HAMMER ARRESTOR	ZURN	ZURN 130								USE AT ALL PRESSURE VALVES

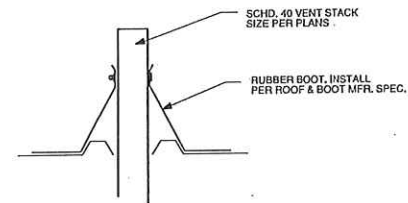
NOTE: FIXTURES MAY VARY BY OWNER BUT ALL FIXTURE SHALL MEET ADA (HC) STANDARDS

GENERAL NOTES

1. ALL SANITARY SEWER AND GREASE PIPING IF SHOWN SHALL BE BELOW FLOOR AND SLOPE AT 1/8" PER FOOT MINIMUM UNLESS NOTED OTHERWISE.
2. ALL VENT PIPING SHALL BE ABOVE CEILING UNLESS NOTED OTHERWISE.
3. CONTRACTOR SHALL COORDINATE SEWER INVERTS WITH CIVIL CONTRACTOR BEFORE INSTALLING PIPE.
4. ALL CONDENSATION PIPING SHALL BE 2" SLOPED AT 1/8" PER FOOT. PROVIDE A 6" RUNNING P-TRAP AT EACH UNIT. DRAIN INTO VENT STACKS.
5. ALL WASTE & VENT PIPING SHALL BE SCHD. 40 PVC UNLESS NOTED OTHERWISE.
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2 ROOF VENT DETAIL

Scale: NTS

INSTALL PER MFR. SPEC.



STATE OF MISSISSIPPI
DEPARTMENT OF REVENUE
REGISTERED PROFESSIONAL ENGINEER
DAVID J. CRUMLEY, P.E.
10724/20

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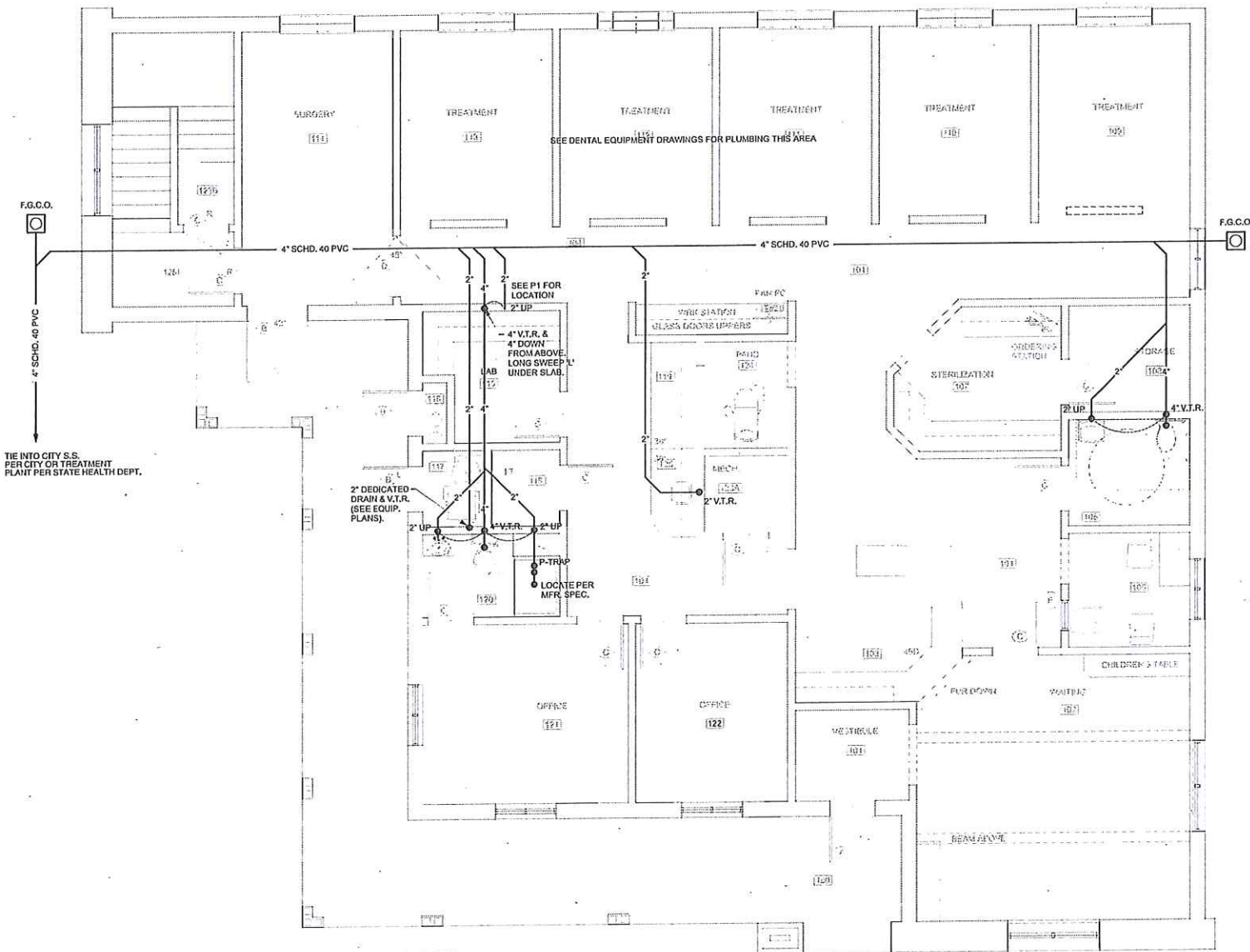
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P1.1



WASTE & VENT PIPING- FIRST FLOOR
 Scale: 1/4"=1'-0"

ALSO SEE DENTAL EQUIPMENT DRAWINGS FOR PLUMBING

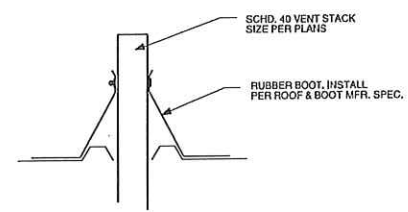
MARK	DESCRIPTION	MAKE	MODEL	SUPPLY FITTING	SUPPLY PIPE(S)	DRAIN	TRAP	ROUGH-IN SIZES		REMARKS
								G.W.	H.W. WASTE VENT	
WS1	40 GAL. LOW-BOY ELEC. INSTALL PER MFR SPEC. POP-OFF & DRAIN TO OUTSIDE ON NEAREST VENT STACK & WRINKLING TRAP									
WC1-PC1	WATER CLOSET, FLUSH VALVE	PO-LER	W-2025769HC-424	PER MFR	1"	4"		1"		SEE PLAN SEE PLAN 60-04-0503-01
U-1	ADA SPEC. WALL MOUNTED 4" X 6" CERAMIC CHECK FLOOR TOILET		W-2025769HC-424	PER MFR	3/4"	2"		1/2"	1/2"	SEE PLAN SEE PLAN
FS1A	WATER PRESSURE	ZURN	ZURN 110							USE AT ALL PRESSURE VALVES

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3 ROOF VENT DETAIL
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 INSTALL PER MFR. SPEC.



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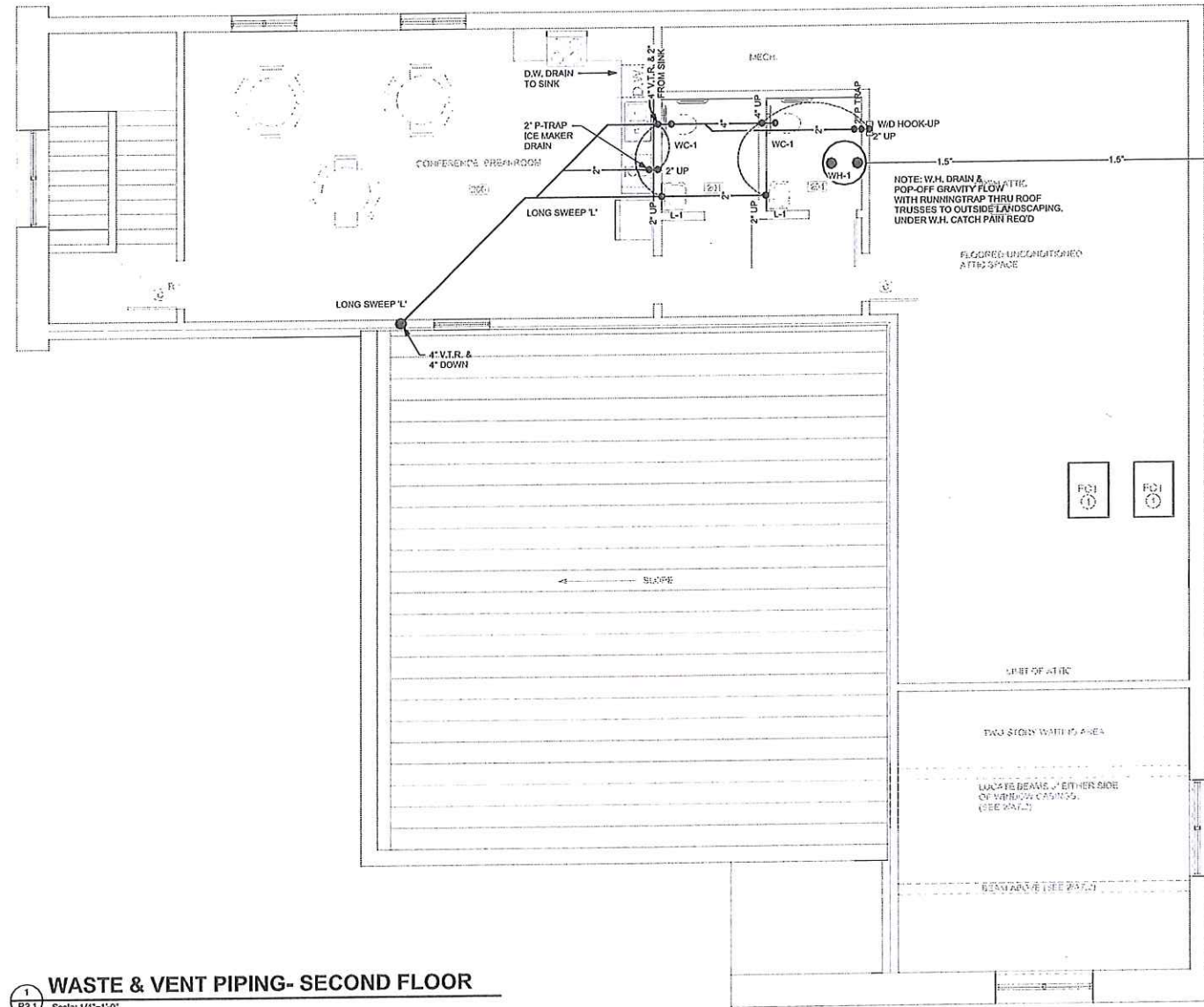


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P2



1 WASTE & VENT PIPING- SECOND FLOOR
Scale: 1/4"=1'-0"

ALSO SEE DENTAL EQUIPMENT DRAWINGS FOR PLUMBING

MARK	DESCRIPTION	MAKE	MODEL	SUPPLY FITTING	SUPPLY PIPE(S)	DRAIN	TRAP	ROUGH-IN SIZES			REMARKS	
								C.W.	H.W.	WASTE / VENT		
WS-1	40 GAL. LOW-BOY ELEC. P-TRAP PER MFR SPEC. POP-OFF & DRAIN TO OUTSIDE OR NEAREST VENT STACK & WRAPPING TRAP											
WC-1 (C)	WATER CLOSET, FLUSH VALVE	KOHLER	K-4037 (69) (40)	PER MFR	1"	1"		1"		SEE PLAN	SEE PLAN	601-855-31
L-1	ADA SINK, WALL MOUNTED BY ADA COMPLIANCE TO CODE	WASHER	W-1000	PER MFR	3/4"	2"		1/2"	1/2"	SEE PLAN	SEE PLAN	
PCA	HAMMER ARRESTOR	ZURN	ZURN 100									USE AT ALL PRESSURE VALVES

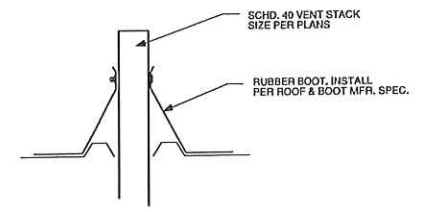
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2 ROOF VENT DETAIL
Scale: NTS
INSTALL PER MFR. SPEC.



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P2.1

ELECTRICAL LEGEND	
LIGHTING	
SYMBOL	DESCRIPTION
	SINGLE FACED EXIT SIGN, CEILING MOUNT, ARROWS INDICATED DIRECTION.
	RECESSED TROFFER WITH FIXTURE SYMBOL AND CIRCUIT NUMBER.
	SURFACE STRIP WITH FIXTURE SYMBOL AND CIRCUIT NUMBER.
	CEILING OUTLET WITH FIXTURE SYMBOL AND CIRCUIT NUMBER.
	SURFACE MOUNT FIXTURE WITH FIXTURE SYMBOL AND CIRCUIT NUMBER.
	WALL BRACKET OUTLET WITH FIXTURE SYMBOL AND CIRCUIT NUMBER.
	EMERGENCY BATTERY LIGHT WITH FIXTURE SYMBOL AND CIRCUIT NUMBER.
	JUNCTION BOX ABOVE CEILING WITH FLEXIBLE WIRING CONNECTION TO DENTAL CEILING LIGHT - ROUTE FLEXIBLE CONDUIT THROUGH CEILING MOUNTING PLATE AND LEAVE 3" TAIL. VERIFY EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S DETAIL 6, EQUIPMENT DRAWING SED.1.
	INDICATES LIGHTING ON EMERGENCY LIGHTING PANEL CIRCUIT.
SWITCHES/DISCONNECTS/EQUIPMENT CONNECTIONS	
SYMBOL	DESCRIPTION
	SWITCH SINGLE POLE FLUSH SWITCH. MOUNT CENTER LINE UP 42", UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS.
	SWITCH, THREE-WAY SWITCH. MOUNT CENTER LINE UP 42", UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS.
	SWITCH, LINE VOLTAGE DIMMING TYPE, COMPATIBLE WITH LED FIXTURES, PHILIPS SUPPSE TRAC (PHOSPHOR) OR EQUAL. MOUNT CENTER LINE UP 42" UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS.
	PHOTO ELECTRIC CONTROLLER. MOUNT ON ROOF, OR AS NOTED ON PLAN, AN NORTH.
	LIGHTING CONTACTOR, SIZE AS NOTED, MECHANICALLY HELD.
	PASSIVE INFRARED (PIR) CORNER MOUNT OCCUPANCY SENSOR, LOW VOLTAGE WIDE VIEW, NIGHT CAT. NO. HWV-16 OR EQUAL.
	DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR, STANDARD RANGE, NIGHT CAT. NO. HCM-PDT-9 OR EQUAL.
	LINE VOLTAGE VACANCY SENSOR SWITCH, MOUNT CENTERLINE UP 42" A.F.F. UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS. SENSOR SWITCH CAT. NO. NCV-VA-181 OR EQUAL.
	POWER/RELAY PACK, 16 AMP 120/277 VOLT, MOUNT ABOVE ACCESSIBLE CEILING. NIGHT NPP16 OR EQUAL.
	REMOTE SHUTOFF SWITCH, REFER TO DETAIL 32A, EQUIPMENT SHEET SED.2 FOR CONDUIT/BOX/WIRING REQUIREMENTS.
	NITROUS OXIDE/OXYGEN SYSTEM ALARM, REFER TO DETAIL 34, EQUIPMENT SHEET SED.2 FOR CONDUIT/BOX/WIRING REQUIREMENTS.
	NITROUS OXIDE/OXYGEN SYSTEM SHUT-OFF VALVE, REFER TO DETAIL 34A, EQUIPMENT SHEET SED.3 FOR CONDUIT/BOX/WIRING REQUIREMENTS.
	DENTAL EQUIPMENT 30AMP UNFUSED DISCONNECT, LOCATE ADJACENT TO AND CONNECT VACUUM PUMP FURNISHED BY OTHERS.
	REMOTE X-RAY EXPOSURE BUTTON, REFER TO DETAIL 99, EQUIPMENT SHEET SED.1 FOR BOX/CONDUIT REQUIREMENTS.

ELECTRICAL LEGEND	
POWER DISTRIBUTION	
SYMBOL	DESCRIPTION
	MAIN RUN (CONDUIT AND WIRING), PANEL AND CIRCUIT DESIGNATION, NUMBER OF CONDUCTORS, GROUNDING CONDUCTOR ARE NOT INDICATED BY MARKS, BUT ARE REQUIRED AND SIZED PER BRANCH CIRCUIT UNLESS OTHERWISE NOTED. WIRING LARGER THAN #12 AWG SHALL BE NOTED.
	BRANCH CIRCUIT (CONDUIT AND WIRING), PANEL AND CIRCUIT DESIGNATION, NUMBER OF CONDUCTORS, GROUNDING CONDUCTORS ARE NOT INDICATED BY MARKS, BUT ARE REQUIRED AND SIZED PER BRANCH CIRCUIT UNLESS OTHERWISE NOTED. IF NO BRANCH CIRCUIT CONDUIT AND WIRING IS SHOWN (RECEPTACLE CIRCUIT) IT IS ASSUMED THAT A PHASE, NEUTRAL AND GROUND CONDUCTOR IS REQUIRED. WIRING LARGER THAN #12 THRU SHALL BE NOTED.
	RACEWAY INSTALLED CONCEALED ABOVE CEILING OR IN WALL.
	RACEWAY INSTALLED EXPOSED (ON CEILING ONLY).
	OVERHEAD SECONDARY CIRCUIT.
	OVERHEAD ELECTRICAL PRIMARY CIRCUIT.
	GROUND PER NEC ARTICLE 250.
	CONDUIT UP / CONDUIT DOWN.
	DISTRIBUTION / POWER PANEL, SURFACE MOUNTED.
	ELECTRICAL PANEL, 250 VOLT SYSTEM, SURFACE / FLUSH MOUNT.
	NEW POLE.
	EXISTING POLE TO REMAIN.
	34 POLE MOUNTED TRANSFORMER BANK, BY UTILITY CO.
	14 POLE MOUNTED TRANSFORMER, BY UTILITY CO.
RECEPTACLES	
SYMBOL	DESCRIPTION
	DUPLEX GROUNDABLE RECEPTACLE, 120 VOLTS, NEMA 5-20R, WITH CIRCUIT NUMBER. MOUNT UP 18" A.F.F. / 4" CENTER LINE ABOVE COUNTER BACKSPLASH OR 42" A.F.F. UNLESS NOTED OTHERWISE.
	DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE, 120 VOLTS, NEMA 5-20R, WITH CIRCUIT NUMBER. MOUNT UP 18" A.F.F. / 4" CENTER LINE ABOVE COUNTER BACKSPLASH OR 42" A.F.F. UNLESS NOTED OTHERWISE.
	DOUBLE DUPLEX GROUNDABLE RECEPTACLE, 120 VOLTS, NEMA 5-20R, WITH CIRCUIT NUMBER. MOUNT UP 18" CENTER LINE A.F.F. UNLESS NOTED OTHERWISE.
	30 AMP 250 VOLT SINGLE PHASE RECEPTACLE, NEMA 6-30R SERVING X-RAY UNIT. SEE DETAIL 9C, DENTAL EQUIPMENT SHEET SED.1 FOR ADDITIONAL CONDUIT/OUTLET BOX REQUIREMENTS.
	SIMPLEX GROUNDABLE RECEPTACLE, 120 VOLTS, NEMA 5-20R, WITH CIRCUIT NUMBER. LOCATE ADJACENT TO EQUIPMENT FURNISHED BY OTHERS. REFERENCE DENTAL EQUIPMENT DRAWINGS FOR CONNECTION INFORMATION.
	FLUSH FLOOR BOX WITH QUAD RECEPTACLE FOR CONNECTION TO UTILITY CENTER PROVIDED BY DENTAL EQUIPMENT SUPPLIER. REFER TO DETAIL 2, EQUIPMENT DRAWING SED.1 FOR EXACT LOCATION PRIOR TO ROUGH-IN.
	50 AMP 120/250 VOLT SINGLE PHASE RECEPTACLE, NEMA 14-50R SERVING RANGE. MOUNT CENTERLINE UP 30" A.F.F.
KEYNOTES	
SYMBOL	DESCRIPTION
	SHEET OR DETAIL KEYNOTE.
	REVISION KEYNOTE.
	MECHANICAL EQUIPMENT CONNECTION KEYNOTE, SEE MECHANICAL EQUIPMENT POWER CONNECTION SCHEDULE.
FIRE ALARM SYSTEM	
SYMBOL	DESCRIPTION
	FIRE ALARM SYSTEM CONTROL CABINET, MOUNT CENTER LINE 4'-6". ROUTE ALL FIRE ALARM HOWERNS TO THIS POINT.
	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR, MOUNT CENTER LINE UP 4'-6".
	FIRE ALARM SYSTEM MANUAL STATION, MOUNT CENTER LINE UP 42".
	FIRE ALARM SYSTEM SMOKE DETECTOR, CEILING MOUNTED.
	FIRE ALARM SYSTEM HEAT DETECTOR, CEILING MOUNTED.
	DUCT SMOKE DETECTOR, PHOTO ELECTRIC TYPE WITH SAMPLING TUBES, INSTALL IN DUCT AS DIRECTED BY MECHANICAL CONTRACTOR.
	FIRE ALARM SYSTEM AUDIBLE/VISUAL DEVICE, MOUNT CENTER LINE UP 84" ABOVE FINISHED FLOOR OR 6" BELOW CEILING, WHICHEVER IS LOWER. STROBE 110 CD UNLESS NOTED OTHERWISE.
	FIRE ALARM SYSTEM VISUAL ALARM DEVICE, MOUNT CENTER LINE UP 84" ABOVE FINISHED FLOOR OR 6" BELOW CEILING WHICHEVER IS LOWER. STROBE 110 CD UNLESS NOTED OTHERWISE.
	FIRE ALARM SYSTEM CONNECTION TO TAMPER SWITCH.
	FIRE ALARM SYSTEM CONNECTION TO FLOW SWITCH.
	MAGNETIC DOOR HOLD OPEN - CONNECT TO FIRE ALARM SYSTEM.
	FIRE ALARM CONNECTION TO POST INDICATOR VALVE.

ELECTRICAL LEGEND						
COMMUNICATIONS						
SYMBOL	DESCRIPTION					
	TELEPHONE BACKBONE, SIZE AS NOTED, 3/4" PLYWOOD, LONG DIVISION VERTICAL. TERMINATE ALL TELEPHONE HOWERNS AT THIS POINT AND BUS.					
	COMBINATION TELEPHONE/DATA OUTLET WITH BLANK COVER PLATE. PROVIDE 3/4" CONDUIT (W/FULL STRING) STRIPPED OUT ABOVE ACCESSIBLE CEILING FOR CABLING FURNISHED BY OTHERS. MOUNT CENTERLINE UP 18" UNLESS NOTED OTHERWISE.					
	RECESSED JUNCTION BOX, SIZE AND MOUNTING HEIGHT AS NOTED.					
	COMBINATION CATV/DATA OUTLET WITH BLANK COVER PLATE. PROVIDE 3/4" CONDUIT (W/FULL STRING) STRIPPED OUT ABOVE ACCESSIBLE CEILING FOR CABLING FURNISHED BY OTHERS. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.					
ABBREVIATIONS						
SYMBOL	DESCRIPTION					
E	INDICATES RECEPTACLE ON FUTURE EMERGENCY GENERATOR CIRCUIT. RECEPTACLE SHALL BE RED IN COLOR.					
TV	THIS NOTATION ADJACENT TO ANY RECEPTACLE SYMBOL INDICATES RECEPTACLE TO BE MOUNTED ADJACENT TO TV OUTLET.					
WP	THIS NOTATION ADJACENT TO ANY RECEPTACLE SYMBOL INDICATES DUPLEX GROUNDABLE, 120 VOLT, NEMA 5-20R, GROUND FAULT INTERRUPTER TYPE RECEPTACLE IN A DAMP LOCATION. SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHEN THE RECEPTACLE IS COVERED. (PLUG NOT INSERTED AND RECEPTACLE COVERS CLOSED). (COMPLY WITH 2014 N.E.C.)					
EDF	THIS NOTATION ADJACENT TO ANY RECEPTACLE SYMBOL INDICATES RECEPTACLE LOCATED ON WALL ADJACENT TO DESIGN FOUNTAIN.					
LIGHT FIXTURE SCHEDULE						
SYMBOL	VOLTS	WATTS/LAMPS	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MOUNTING
A	120	50W LED	2X4 FLAT PANEL, 4800 LUMENS, 3500K COLOR TEMP., 0-10V DIMMING	LITHONIA	EPANL-2X4-4800LM-80CR-30K-MN10-ZT-MVOLT	RECESSED
B	120	30W LED	2X4 FLAT PANEL, 3000 LUMENS, 3500K COLOR TEMP., 0-10V DIMMING	LITHONIA	EPANL-2X4-3000LM-80CR-30K-MN10-ZT-MVOLT	RECESSED
C	120	35W LED	2X2 FLAT PANEL, 3100 LUMENS, 3500K COLOR TEMP., 0-10V DIMMING	LITHONIA	EPANL-2X2-3100LM-80CR-30K-MN10-ZT-MVOLT	RECESSED
D	120	10W LED	4" DIAMETER DOWNLIGHT, 3500K COLOR TEMPERATURE, 1500 LUMENS	H.E. WILLIAMS	4DR-L10-B35-DM-UNH/0W-0F-CS-N-F1	RECESSED
E	120	13W LED	4" DIAMETER LED DOWNLIGHT, 3500K COLOR TEMP., 1500 LUMENS	H.E. WILLIAMS	4DR-L13-B35-DM-UNH/0W-0F-CS-N-F1	RECESSED
F	120	13W LED	4" DIAMETER LED ADJUSTABLE DOWNLIGHT, WIDE DISTRIBUTION, 3500K COLOR TEMPERATURE, 1500 LUMENS	H.E. WILLIAMS	4AR-L13-B35-AM-DM-UNH/0W-0F-CS-CS	RECESSED
G	120	-	DECORATIVE SUSPENDED CHANDELIER, FURNISHED BY OWNER, INSTALLED BY ELECTRICAL CONTRACTOR	-	-	SUSPENDED
H	120	30W LED	1X4 FLAT PANEL, 3000 LUMENS, 3500K COLOR TEMP., 0-10V DIMMING, GYPSUM BOARD CEILING MOUNTING	LITHONIA	EPANL-1X4-3000LM-80CR-30K-MN10-ZT-MVOLT-DCAT4	RECESSED
J	120	50W LED	STAR LIGHTING FIXTURE, 4" LENGTH, 3500K COLOR TEMPERATURE, WITH INTEGRAL OCCUPANCY SENSOR AND EMERGENCY BATTERY PACK	H.E. WILLIAMS	SUF-4-152-B-35-IRA-EN-10W-000255-S0R-10-DWY-120	WALL MOUNT CENTERLINE 8"0" A.F.F. OR LANDING
K	120	11W LED	WALL MOUNT VARIETY LIGHT, 2" WIDTH, 3000K COLOR TEMPERATURE, 800 LUMENS	LITHONIA	FWVCL-2ER-1WVOLT-90CR-B1	WALL MOUNT CENTERED ABOVE MIRROR
L	120	20W LED	STRIP LIGHT WITH REFLECTOR, 4" LENGTH 2000 LUMENS, 3500K COLOR TEMPERATURE	H.E. WILLIAMS	75-4-120/835-DRY-120	CEILING OR SUSPEND TO 8'0"
M	120	1W	CONTROLS CONNECTION TO GAS LAUP PROVIDED BY OTHERS	-	-	ARCHITECTURAL ELEVATIONS
X1	120	2W LED	EXIT SIGN, SINGLE FACE, ARROWS AS INDICATED	H.E. WILLIAMS	EXIT-R-WHT	CENTERLINE 1'0" ABOVE DOOR
X2	120	2W LED	EMERGENCY EGRESS LIGHT WITH BATTERY PACK	H.E. WILLIAMS	EMER-WHT	CENTERLINE 7'6" A.F.F.

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 172 W. Center Street, Canton, Mississippi 39014
 601.664.0617
 david@crumleyarchitects.com

A NEW BUILDING FOR:
Dr. Keith Brown, DMD
 MADISON COUNTY, MISSISSIPPI

REVISIONS:

NO.	DATE:

PROJECT NO: 1904
 DATE: 9/11/19

E0.1

PANEL NAME: A		SIZE: 225A		KVC RATING: 22			
VOLTAGE: 120/208V 1Ø		MAIN BRK: 225A2P		CONNECTED: 59KVA/283A			
MOUNTING: SURFACE		DEMAND: 24KVA/115A					
CR. NO.	LOAD	BREAKER AMP/POLES	LOAD KVA/PHASE A B	BREAKER AMP/POLES	LOAD	CR. NO.	
1	LIGHTING	20A/1P	1 / 3.5	50A/2P	RANGE	2	
3	LIGHTING	20A/1P	1 / 3.5	1	1	4	
5	LIGHTING	20A/1P	1 / 2.4	30A/2P	CUIZ	6	
7	RECEPTACLES	20A/1P	1 / 1	1	1	8	
9	RECEPTACLES	20A/1P	1 / 1	20A/1P	FCI	10	
11	RECEPTACLES	20A/1P	1 / 1	20A/1P	RANGE WOOD/REC.	12	
13	RECEPTACLES	20A/1P	1 / 1	20A/1P	RECEPTACLES	14	
15	RECEPTACLES	20A/1P	1 / 1	20A/1P	RECEPTACLES	16	
17	RECEPTACLES	20A/1P	1 / 1	20A/1P	RECEPTACLES	18	
19	RECEPTACLES	20A/1P	1 / 1	20A/1P	VENT FAN	20	
21	RECEPTACLES	20A/1P	1 / 1	20A/2P	VACUUM PUMP	22	
23	RECEPTACLES	20A/1P	1 / 1	1	1	24	
25	RECEPTACLES	20A/1P	1 / 1	20A/2P	VACUUM PUMP	26	
27	RECEPTACLES	20A/1P	1 / 1	1	1	28	
29	RECEPTACLES	20A/1P	1 / 1	1	1	30	
31	RECEPTACLES	20A/1P	1 / 1.1	1	1	32	
33	SPARE	20A/1P	---	1.5	1	34	
35	SPARE	20A/1P	---	1.5	1	36	
37	SPARE	20A/1P	---	B	100A/2P	PANEL E	38
39	SPARE	20A/1P	---	B	1	40	
TOTAL VA PER PHASE			29.5 29.5				

PANEL NAME: E		SIZE: 100A		KVC RATING: 22		
VOLTAGE: 120/208V 1Ø		MAIN BRK: NONE		CONNECTED: 26.4KVA/110A		
MOUNTING: SURFACE		DEMAND: 16KVA/66A				
CR. NO.	LOAD	BREAKER AMP/POLES	LOAD KVA/PHASE A B	BREAKER AMP/POLES	LOAD	CR. NO.
1	LIGHTING	20A/1P	8 / 8	20A/1P	REFRIGERATION	2
3	LIGHTING	20A/1P	1 / 1	20A/1P	RECEPTION DESK REC.	4
5	LIGHTING	20A/1P	1 / 1	20A/1P	FCI	6
7	RECEPTACLES	20A/1P	1 / 1	20A/1P	FCI	8
9	RECEPTACLES	20A/1P	1 / 3.5	40A/2P	CUIZ	10
11	RECEPTACLES	20A/1P	1 / 1	1	1	12
13	RECEPTACLES	20A/1P	1 / 1	40A/2P	CUIZ	14
15	RECEPTACLES	20A/1P	1 / 1	1	1	16
17	RECEPTACLES	20A/1P	1 / 1	20A/1P	SPARE	18
19	RECEPTACLES	20A/1P	1 / 1	20A/1P	SPARE	20
21	RECEPTACLES	20A/1P	1 / 1	20A/1P	SPARE	22
23	SPARE	20A/1P	---	20A/1P	SPARE	24
TOTAL VA PER PHASE			13.8 12.6			

EQUIPMENT POWER CONNECTION SCHEDULE

MARK	EQUIPMENT	V/#	F.L.A.	K.W.	H.P.	OKT. NO.	OKT. BIRL.	BRANCH CIRCUIT (1)	DISC./FUSE (2)	REMARKS
M1	CONDENSING UNIT CUI	208/1	27	--	--	E-10,12	40/2	2-#8, 1-#100, 3/4" C.	60A2P/40A	4,8,9
M2	CONDENSING UNIT CUI	208/1	27	--	--	E-14,16	40/2	2-#8, 1-#100, 3/4" C.	60A2P/40A	4,8,9
M3	CONDENSING UNIT CUI	208/1	20	--	--	A-8,9	30/2	2-#10, 1-#100, 3/4" C.	30A2P/30A	4,8,9
M4	FURNACE FCI	120/1	9.8	--	1/2	E-8	20/1	2-#12, 1-#12(0), 3/4" C.	--	3,5,7
M5	FURNACE FCI	120/1	9.8	--	1/2	E-8	20/1	2-#12, 1-#12(0), 3/4" C.	--	3,5,7
M6	FURNACE FCI	120/1	9.8	--	1/2	A-10	20/1	2-#12, 1-#12(0), 3/4" C.	--	3,5,7
M7	VENT FAN	120/1	9.8	--	1/2	A-20	20/1	2-#12, 1-#12(0), 3/4" C.	--	3,7,11

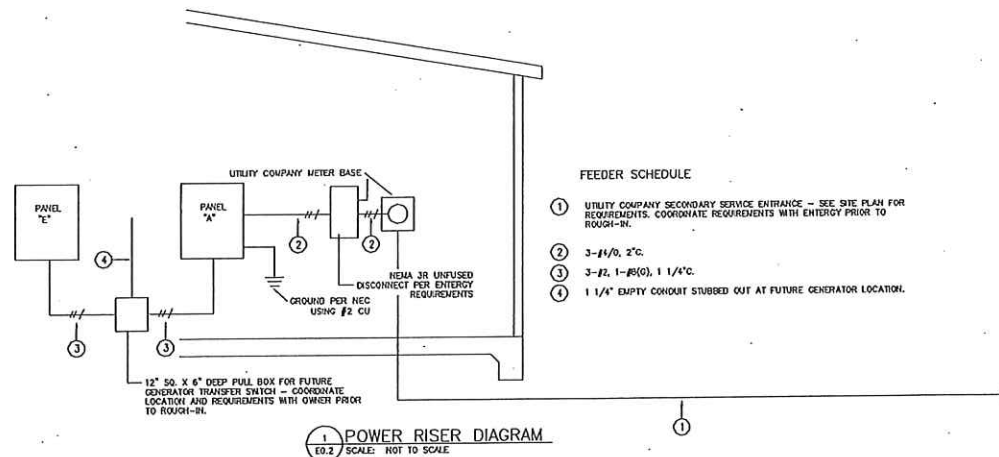
POWER CONNECTION REMARKS:

- CIRCUIT TO INCLUDE ONE (1) GREEN CONDUCTOR (Ø) SIZED PER BRANCH CIRCUIT UNLESS SHOWN TO BE SIZED DIFFERENTLY.
- DUAL ELEMENT TYPE FUSE AND PROPER VOLTAGE IF FUSE SIZE NOT SHOWN, UNIT TO BE UNFUSED.
- FINAL CONNECTION USING FLEXIBLE CONDUIT.
- FINAL CONNECTION USING LIQUID TIGHT FLEXIBLE CONDUIT.
- INSTALL DISCONNECT SWITCH ADJACENT TO AND CONNECT THROUGH STARTER OR VARIABLE FREQUENCY DRIVE (AS REQUIRED) FURNISHED UNDER MECHANICAL SECTION.
- RUN TIGHT DISCONNECT SWITCH.
- PREWIRE TOGGLE SWITCH IN NEMA 1 ENCLOSURE ADJACENT TO UNIT AS DISCONNECT.
- UNIT ON ROOF.
- WALL MOUNTED.
- DISCONNECT INTEGRAL WITH UNIT.
- THERMOSTATICALLY CONTROLLED VENT FAN - VERIFY REQUIREMENTS PRIOR TO ROUGH-IN.

ELECTRICAL SPECIFICATIONS:

All work to be accomplished per the latest edition of the National Electrical Code and Local Ordinances. All conductors shall be copper and a minimum of #12 unless noted otherwise. All work to be installed with conduit, EMT, IMC, PVC, or GRC per the following: Underground, PVC with GRC elbows, Exposed or Concealed inside the building, EMT, IMC, or GRC, Exposed on exterior of building, EMT, GRC or IMC.

Conduit fittings to be die cast or steel as approved for the application being used. Conduit to be installed parallel and perpendicular to the building structure, whether exposed or concealed, except for PVC conduit installed under the slab or underground on site. No BX, MC or MI cable to be used on this project without specific use approval by the Engineer, Architect and Owner. No non-metallic cable is to be used on this project except for temporary power and lighting wiring. All temporary wiring shall be removed prior to the completion of the project. PVC conduit installation for the underground primary and secondary services shall be concrete encased with a minimum of 3" on all sides. #2 rebar shall be used for structural support in the ductbanks, 24" on center both directions with a minimum of 4 horizontal runs. 20 amp homeruns that exceed 100 feet shall be installed with #10 THWN conductors. 20 amp homeruns that exceed 200 feet shall be installed with #8 THWN conductors. All conduits shall be sized per the latest edition of the National Electrical Code. The same manufacturer shall furnish all switchgear. All panel boards shall be furnished with bolt-in breakers unless otherwise approved by the Owner, Architect and Engineer. Switchgear manufacturer shall provide necessary calculations, documentation and labeling to comply with NFPA and IEEE Arc Flash requirements. The Electrical Contractor shall assist in providing the manufacturer with the information required for the calculations to include obtaining information from the Power Company, provide lengths and size of conductors, voltage, etc. The Electrical Contractor shall insure that all proper labeling is attached to all equipment involved before energizing equipment. The costs for these items shall be included with the price of the Switchgear package and included with the Electrical Bid. Service grounding conductor shall be bare copper, sized per the plans, bond ground buss, neutral buss, can, incoming conduits, building steel, and cold water main, to three 3/4" x 10' copper clad ground rods in a triangle pattern, see plans. Light fixtures and lamps shall be furnished and installed by this Contractor, furnished by Manufacturer as specified, or approved equal to match description of light fixtures as closely as possible. All ballasts and lamps shall be furnished as "energy-saving", utilizing electronic ballasts and T8 lamps for fluorescent fixtures, or other as indicated in the fixture schedule. Electrical Contractor shall warranty all work and materials supplied and/or installed by Him or his forces for a total of one year from the date of final acceptance of the Building, excluding lamps. Incandescent lamps shall be warranted for a period of 30 days and HID lamps shall be warranted for a period of 90 days. All materials furnished shall be new unless specifically approved otherwise by the Owner. All systems shall be tested and deficiencies corrected prior to acceptance by the Owner, subject to inspection by the Owner, Engineer and Architect. Coordinate the installation of the primary conduit, transformer pad and secondary conduit with the power company. Primary conductors shall be furnished and installed by the power company in conduit furnished and installed by the Electrical Contractor. Secondary conductors shall be furnished and installed by the Contractor, connected in the transformer by the Power Company. Any charges from the Power Company to provide power to the building shall be paid for by the Owner. The Electrical Contractor shall notify the Owner of any charges from the Power Company immediately. Owner shall be responsible for obtaining all permanent power applications from the Power Company. Temporary power and lighting shall be furnished and installed by the Electrical Contractor and the General Contractor shall pay all costs of monthly billing, application fees, etc. unless otherwise arranged with the Owner. All receptacles and switches shall be furnished 20 amp (or as specified elsewhere), with voltage required for systems installed, trim plates shall be plastic, stainless steel, galvanized, or nylon as specified by the Owner, in colors specified by the Owner. Coordinate installation of all device and outlet locations with casework and Owner, to verify all mounting heights and locations prior to rough in. Verify all mechanical equipment connections required for the Mechanical Equipment prior to rough in. Install according to the Mechanical Contractor's equipment requirements. If significant changes are required, notify the Owner, Architect and Engineer prior to installation. Provide final connections to all equipment as required for a complete building system. Coordinate any and all revisions and/or additions with the Owner, Architect and Engineer prior to installation. Verify all power and communications requirements of all Equipment with Manufacturer's information prior to rough-in. Provide Fire Alarm System per National Electrical Code and shown on the plans.



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C R U M L E Y
the Historic Square
A R C H I T E C T S
172 W. Center Street, Canton, Mississippi
601.664.0617
aoid@crumleyarchitects.com

A NEW BUILDING FOR:
Dr. Keith Brown, DMD
MADISON COUNTY, MISSISSIPPI



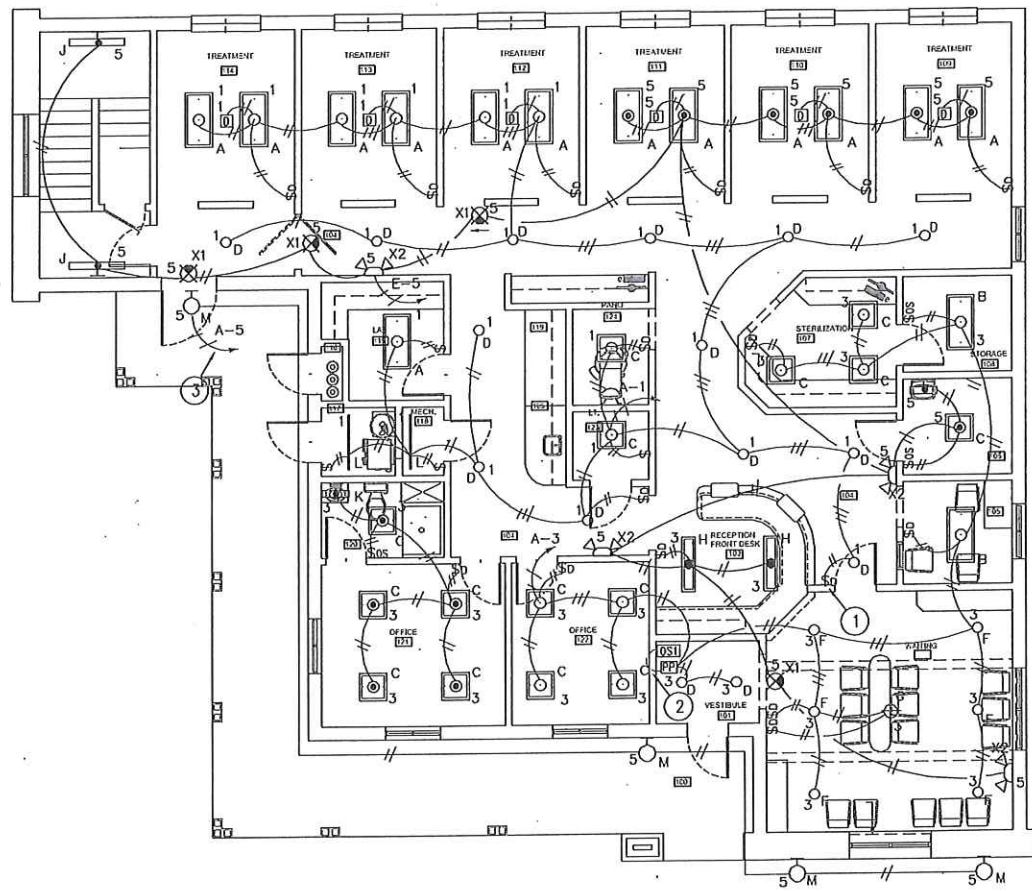
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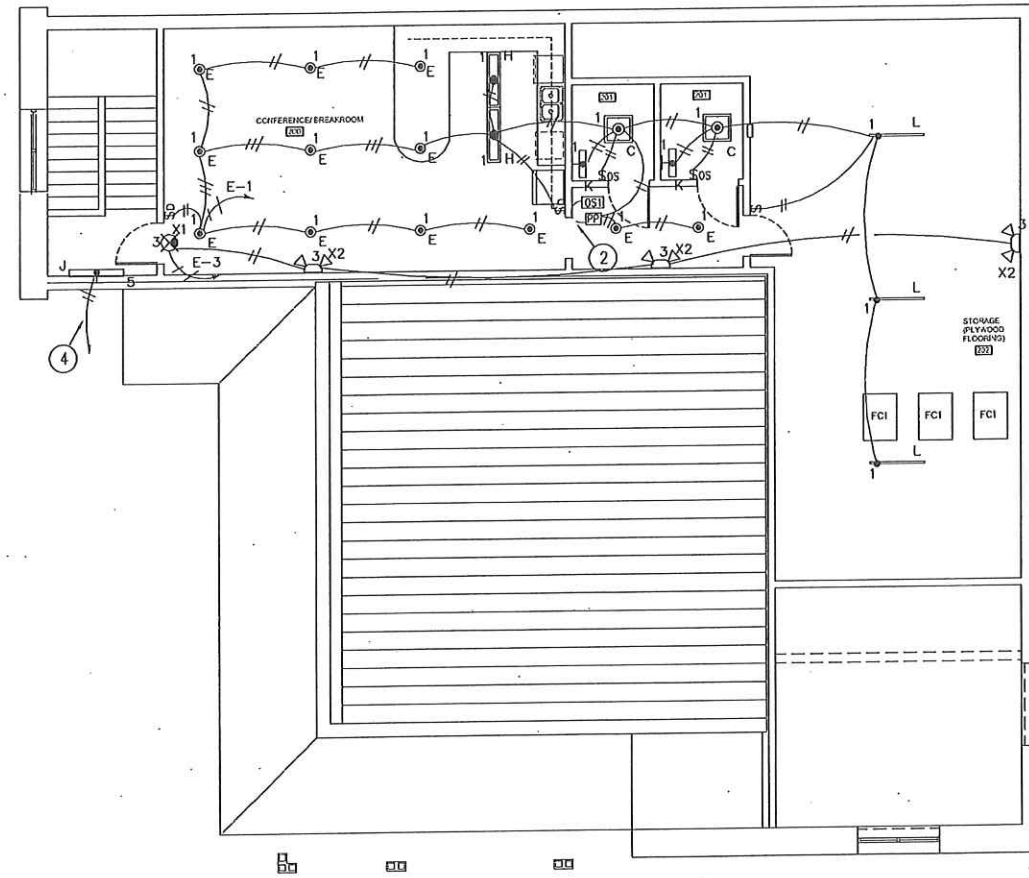
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1
E1.1 Scale: 3/16"=1'-0"

LIGHTING PLAN KEYNOTES

- 1 TYPICAL, PROVIDE LOW VOLTAGE WIRING BETWEEN DIMMING SWITCH AND LIGHT FIXTURES IN ROOM SERVED BY SWITCH TO FACILITATE 0-10V DIMMING.
- 2 TYPICAL, DASHED LINE INDICATES LOW VOLTAGE WIRING BETWEEN OCCUPANCY SENSORS, SWITCHES AND POWER PACKS.
- 3 CIRCUIT THROUGH PHOTOCELL ON ROOF. AIM CELL NORTH.
- 4 DOWN TO SYMBOL "J" FIXTURE, SEE FIRST FLOOR PLAN THIS SHEET.



2
E1.1 Scale: 3/16"=1'-0"

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10/25/19 11:16 AM

C R U M L E Y A R C H I T E C T S P A
1615 S. GARDNER STREET, CANTON, MISSISSIPPI 39020
L 601.664.0617
E dev@crumleyarchitects.com

A NEW BUILDING FOR:
Dr. Keith Brown, DMD
MADISON COUNTY, MISSISSIPPI



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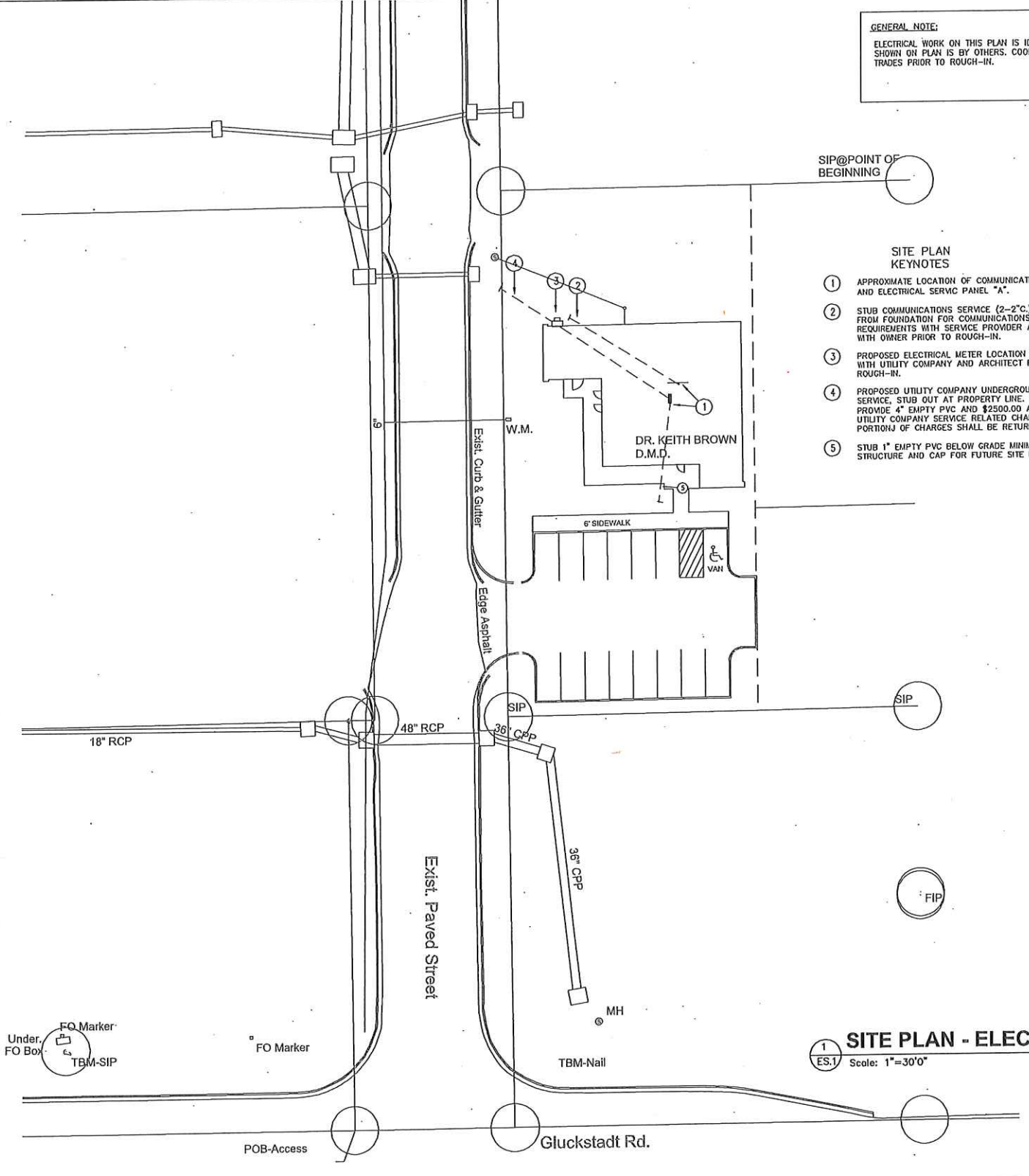
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GENERAL NOTE:
ELECTRICAL WORK ON THIS PLAN IS IDENTIFIED BY KEYNOTES. ALL OTHER WORK SHOWN ON PLAN IS BY OTHERS. COORDINATE UNDERGROUND WORK WITH OTHER TRADES PRIOR TO ROUGH-IN.

SIP@POINT OF BEGINNING

SITE PLAN KEYNOTES

- ① APPROXIMATE LOCATION OF COMMUNICATIONS BACKBOARD AND ELECTRICAL SERVICE PANEL "A".
- ② STUB COMMUNICATIONS SERVICE (2-2" C.) OUT MIN. 5'0" FROM FOUNDATION FOR COMMUNICATIONS SERVICE. VERIFY REQUIREMENTS WITH SERVICE PROVIDER AND COORDINATE WITH OWNER PRIOR TO ROUGH-IN.
- ③ PROPOSED ELECTRICAL METER LOCATION - VERIFY LOCATION WITH UTILITY COMPANY AND ARCHITECT PRIOR TO ROUGH-IN.
- ④ PROPOSED UTILITY COMPANY UNDERGROUND SECONDARY SERVICE. STUB OUT AT PROPERTY LINE. CONTRACTOR SHALL PROVIDE 4" EMPTY PVC AND \$2500.00 ALLOWANCE FOR UTILITY COMPANY SERVICE RELATED CHARGES. UNUSED PORTION OF CHARGES SHALL BE RETURNED TO OWNER.
- ⑤ STUB 1" EMPTY PVC BELOW GRADE MINIMUM 5'0" FROM STRUCTURE AND CAP FOR FUTURE SITE LIGHTING.



SITE PLAN - ELECTRICAL
Scale: 1"=30'0"

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CRUMLEY ARCHITECT, P.A.
172 W. CENTER STREET, CANTON, MISSISSIPPI 39056
601.664.0617

CRUMLEY ARCHITECTS P.A.
172 W. Center Street, Canton, Mississippi 39056
601.664.0617
devid@crumleyarchitects.com



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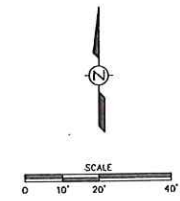
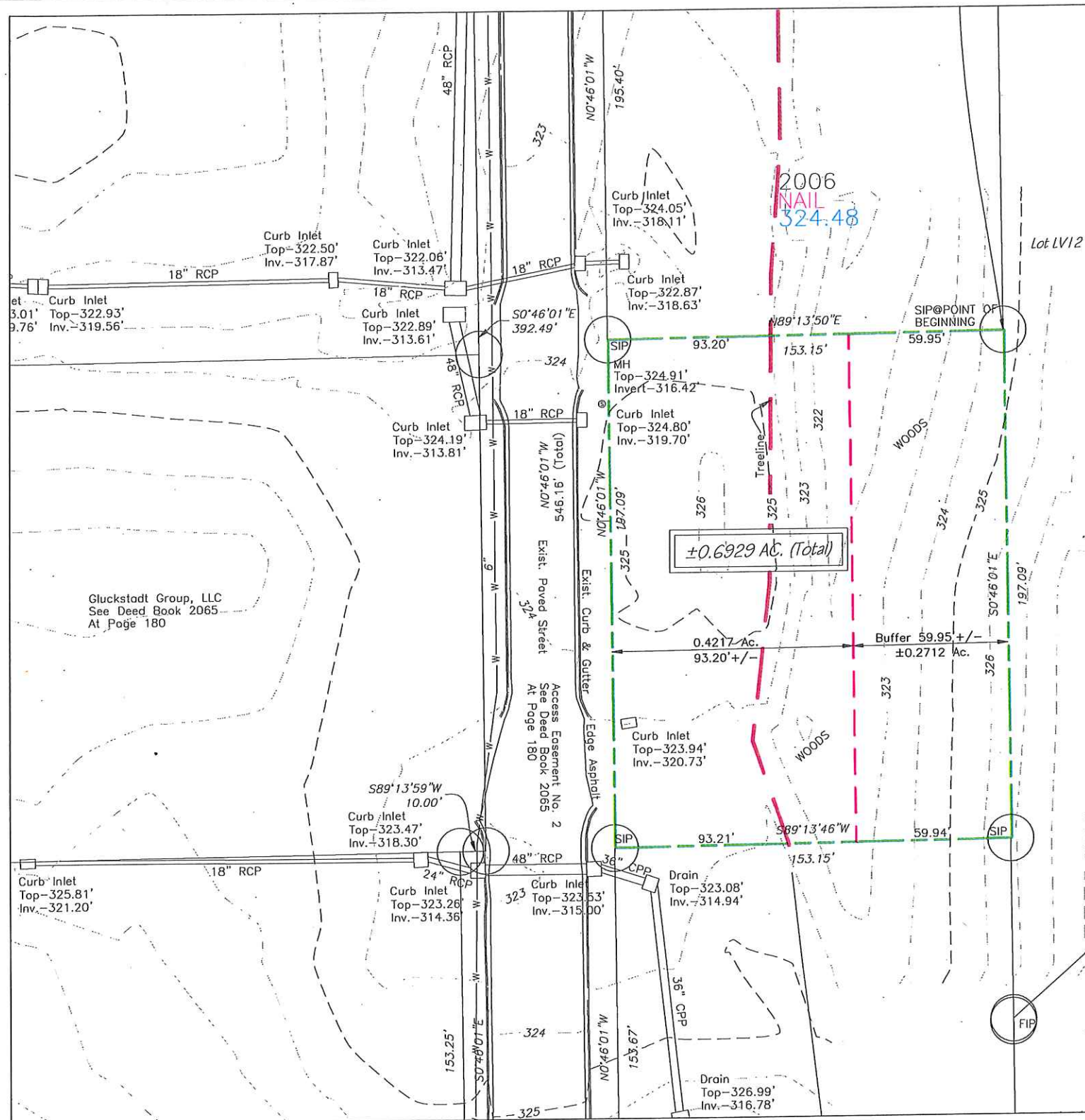
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DATE: 9/11/19

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A NEW BUILDING FOR:
Dr. Keith Brown, DMD
MADISON COUNTY, MISSISSIPPI



- Legend**
- 323 Existing Contour
 - N89°13'50"E 153.15' Property Line
 - Existing Sewer Manhole
 - Treeline
 - 18" RCP Existing Storm Sewer
 - Edge Buffer Area (No Development)
 - 6" w Existing Water Line—approximate location

- Notes**
1. Existing utility locations shown are approximate.



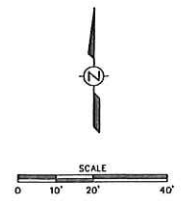
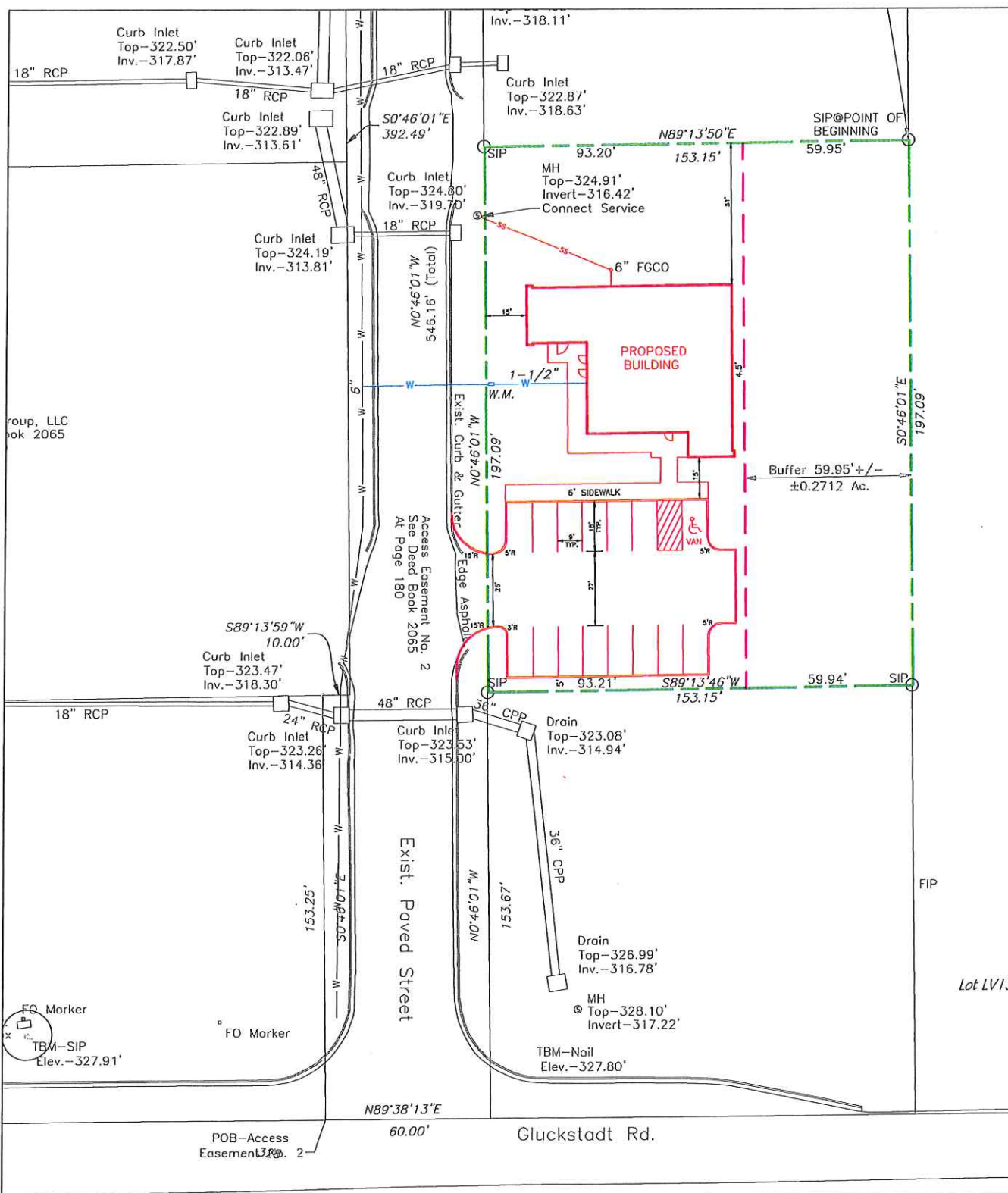
REV.	ISSUED FOR REVIEW	DESCRIPTION OF REVISION	BY	REVISION DATE
0				
1			MJA	7/27/20

SCALE: SHOWN
DRAWN: MJA
REVIEWED: MJA
PROJECT MANAGER: MJA
DATE: 7/27/20

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 Byram, Mississippi 39272

Existing Site Topo
 Mansdale Dental
 Madison County MS

PROJECT No.	
CAD FILE NAME	
DRAWING	C-1



Legend

- N89°13'50"E 153.15' Property Line
- - - - Edge Buffer Area (No Development)
- ⊙ Existing Sewer Manhole
- SS —— Proposed 6" Sewer Service
- W —— Existing Water Line—approximate location
- 1-1/2" W —— Proposed 1 1/2" Water Service
- W.M. Proposed Water Meter

NOTES

1. ALL EXCAVATION, OVER EXCAVATION, BACKFILL AND COMPACTION OF FILL MATERIAL SHALL FOLLOW RECOMMENDATIONS OF GEOTECHNICAL REPORT.
2. ALL EXISTING UTILITY MAINS AND SERVICES SHOWN ARE APPROXIMATE, AND MUST BE FIELD VERIFIED. WATER AND SEWER SERVICE PROVIDED BY BEAR CREEK WATER ASSOCIATION.
3. HANDICAPPED PARKING SPACES, ROUTES TO AND BETWEEN BUILDINGS SHALL BE 2% MAX. SLOPE.
4. CONTRACTOR SHALL NOTIFY MISSISSIPPI 811 BEFORE ANY EXCAVATION TO HAVE UNDERGROUND UTILITIES LOCATED.
5. RADII SHOWN ARE TO THE PROPOSED EDGE OF CONCRETE, OR FACE CURB.
6. ALL EXPOSED NON PARKING/DRIVE AREAS SHALL BE SEEDED AND MULCHED AFTER CONSTRUCTION.
7. PROPERTY LOCATED IN ZONE X, AREA OF MINIMAL FLOOD HAZARD PER FEMA FLOOD MAP 28089C0390F.
8. PROPERTY ZONED C-2 PER MADISON COUNTY ZONING.



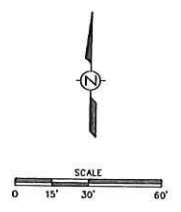
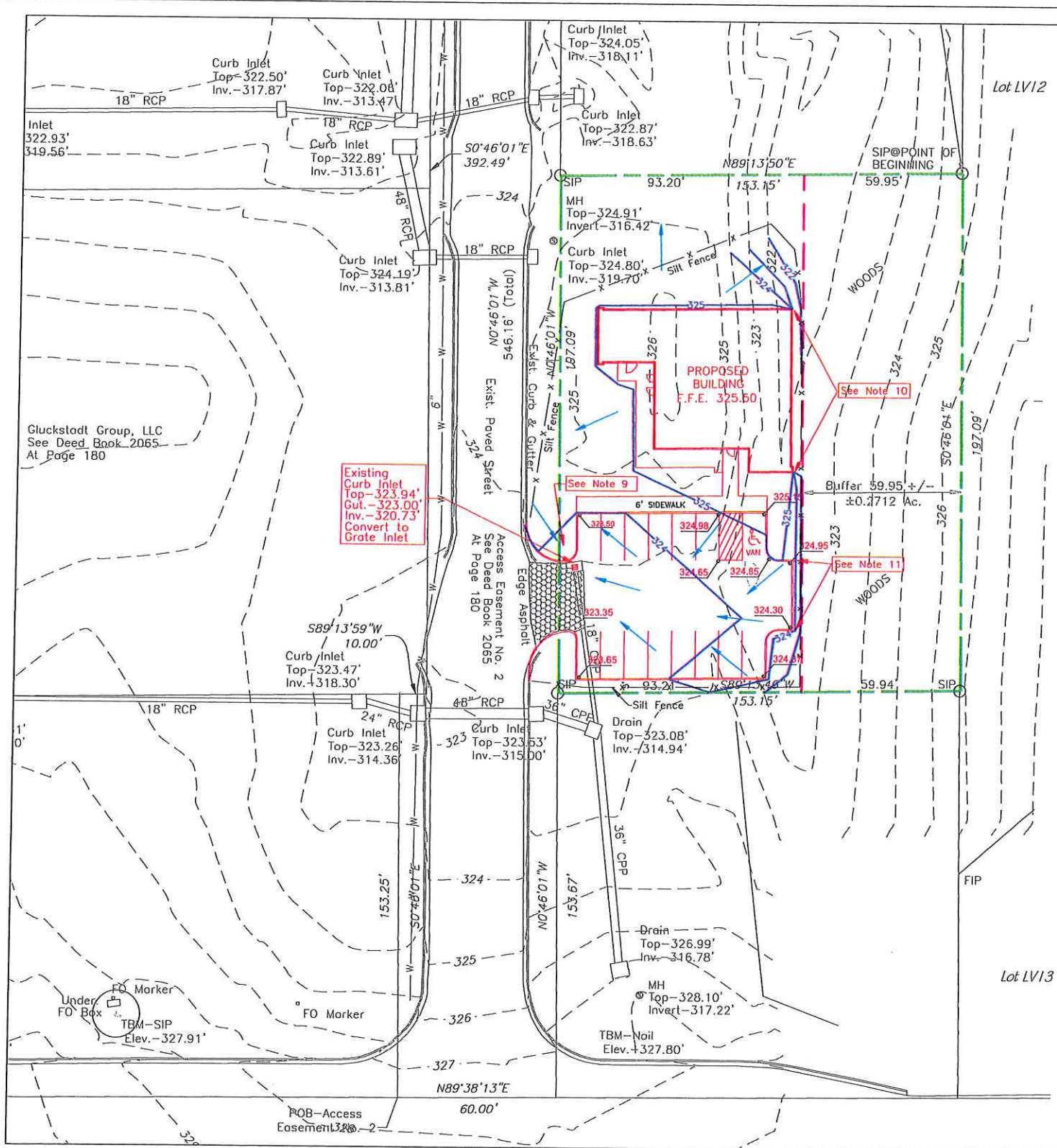
REV.	ISSUED FOR REVIEW	DESCRIPTION OF REVISION	BY	REVISION DATE
0			WJA	8/19/20
1				

SCALE: SHOWN	
DRAWN: WJA	
REVIEWED: WJA	
PROJECT MANAGER: WJA	
DATE: 8/19/20	

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 Consulting Engineers
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Preliminary Site Layout
 Mannsdale Dental
 Madison County MS

PROJECT No.	
CAD FILE NAME	
DRAWING	C-2



Legend

- N89°13'50"E 153.15' Property Line
- - - Edge Buffer Area (No Development)
- 18" RCP Existing Storm Sewer
- - - 323 Existing Contour
- 324 Proposed Contour
- 325.00 Proposed Spot Elevation
- Drainage Direction
- x x x Silt Fence
- Construction Entrance

NOTES

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2. ALL EXISTING UTILITY MAINS AND SERVICES SHOWN ARE APPROXIMATE, AND MUST BE FIELD VERIFIED. WATER AND SEWER SERVICE PROVIDED BY BEAR CREEK WATER ASSOCIATION.
3. HANDICAPPED PARKING SPACES, ROUTES TO AND BETWEEN BUILDINGS SHALL BE 2% MAX. SLOPE.
4. CONTRACTOR SHALL NOTIFY MISSISSIPPI 811 BEFORE ANY EXCAVATION TO HAVE UNDERGROUND UTILITIES LOCATED.
5. RADII SHOWN ARE TO THE PROPOSED EDGE OF CONCRETE, OR FACE CURB.
6. ALL EXPOSED NON PARKING/DRIVE AREAS SHALL BE SEEDED AND MULCHED AFTER CONSTRUCTION.
7. PROPERTY LOCATED IN ZONE X, AREA OF MINIMAL FLOOD HAZARD PER FEMA FLOOD MAP 28089C0390F.
8. PROPERTY ZONED C-2 PER MADISON COUNTY ZONING.
9. GRADE TO DRAIN OVER OR THROUGH CURB THIS LOCATION.
10. TURN DOWN/EXTENDED LENGTH FOOTING REQUIRED THIS SIDE BUILDING TO ACHIEVE GRADE CHANGE.
11. GRADE CHANGE THIS LOCATION REQUIRES EXCESSIVE SLOPE. SLOPE PROTECTION REQUIRED.



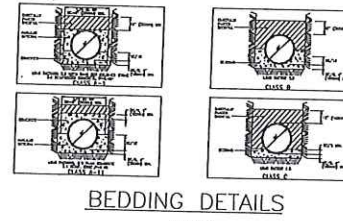
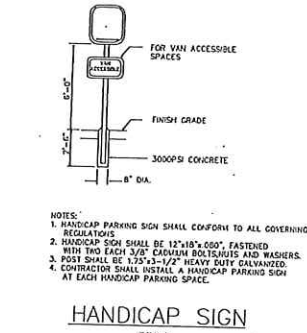
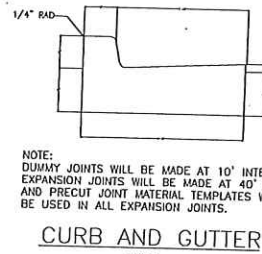
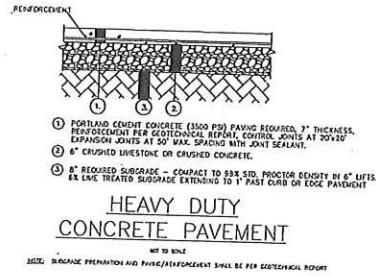
REV.	DESCRIPTION OF REVISION	BY	REVISION DATE
0	ISSUED FOR REVIEW	MJA	7/20/20

SCALE: SHOWN
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PROJECT MANAGER: MJA
DATE: 7/20/20

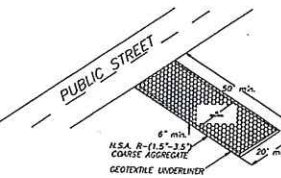
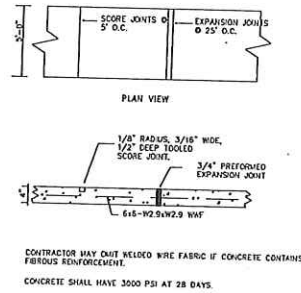
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Grading, Drainage, Erosion Control
 Mannsdale Dental
 Madison County MS

PROJECT No.	
CAD FILE NAME	
DRAWING	C-3

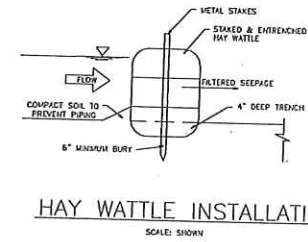


PIPE BEDDING SCHEDULE*

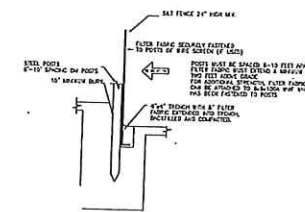


- THE CURB SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT INTRUSION OF FLOW OF MUD DIRT PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE FENCING FOR PROTECTION AND REPAIR AND/OR CLEAN OUT OF ANY SPILLED, DROPPED, WASHED, OR TRUCKED FROM VEHICLES OR DIRT DIRT INTRUSION OR MUD STORM DRAINAGE MUST BE REMOVED IMMEDIATELY.
- WHEELS MUST BE CLEANED TO REMOVE MUD PRIOR TO ENTERING CURB PUBLIC RIGHT-OF-WAY. WHEN MAINTENANCE IS REQUIRED, IT SHALL BE DONE ON AN AREA WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

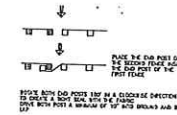
CONSTRUCTION EGRESS DETAIL



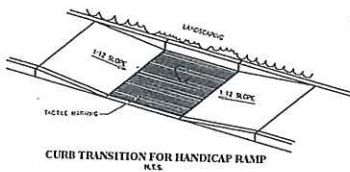
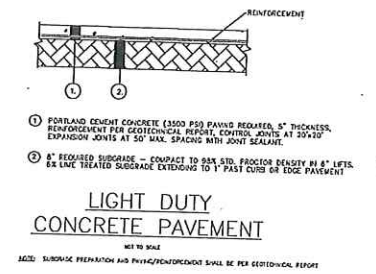
HAY WATTLE INSTALLATION



SILT FENCE TYPICAL SECTION



ATTACHING TWO SILT FENCES



GENERAL NOTES:
ALL CURB-WAF CONCRETE STRUCTURES SCHEDULED IN THESE CONSTRUCTION PLANS SHALL BE A MINIMUM OF 3000 PSI UNLESS OTHERWISE NOTED.

SILT FENCE MAINTENANCE PLAN

- CARE SHALL BE TAKEN TO MINIMIZE THE MOVEMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES AND PUBLIC STREETS UNTIL THE SUPERVISOR'S MATERIAL (ROAD/PARKING AREA SURFACE) IS APPLIED.
- A DROP INLET SEDIMENT TRAP WITH PERIMETER SILT FENCING OR PROPERLY INSTALLED PERIMETER BARRIERS IS THE RECOMMENDED METHOD OF SILT PROTECTION. SEDIMENT WILL BE REMOVED FROM THE EXCAVATED DROP INLET SEDIMENT TRAP AND REDISPOSED TO THE ORIGINAL DEPTH WHEN SEDIMENT ACCUMULATION HAS REACHED HALF THE DEPTH OF THE TRAP.
- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR STABILITY AND OPERATIONAL INTEGRITY FOLLOWING EVERY RAINFALL EXCEEDING 0.5" IN 24 HOURS. IF NECESSARY, REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN THE MEASURES' PERFORMANCE AS DESIGNED.
- SEDIMENT WILL BE REMOVED FROM THE UPSTREAM FACE OF THE SILT FENCE WHEN IT REACHES A MAXIMUM SIX-INCH (6") DEPTH AT THE FENCE. THE FENCE WILL BE REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
- SILT FENCE POSTS SHALL BE ALTERNATING STEEL.

SITE DETAILS



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Consulting Engineers
7112 Sulte B Sivell Road
Byram, Mississippi 39272

Site Details
Mannsdate Dental
Madison County MS

PROJECT No.
CAD FILE NAME
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C-4