XTREME CLEAN AUTO JPA 616 WHITE JULPHUR ROAD, GAINE JULLE, GA

GENERAL NOTES and INFORMATION

I. ALL FEDERAL, STATE AND COUNTY CODES, ORDINANCES REGULATIONS, ETC. SHALL BE CONSIDERED AS PART OF THE SPECIFICATIONS FOR THIS BUILDING AND TAKE PRESEDENCE OVER ITEMS SHOWN, DESCRIBED OR IMPLIED WHERE SAME ARE AT VARIANCE.

2. OWNER, GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS ARE RESPONSIBLE FOR REVIEWING AND APPROVING THE INFORMATION SHOWN ON THESE PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES FOUND SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT

3. PRIOR TO CONSTRUCTION, G.C. (GENERAL CONTRACTOR) SHALL VERIFY ALL LOADS FOR COMPLIANCE WITH ALL APPLICABLE BUILDING CODES. REVISE SIZES AS REQUIRED AND NOTIFY ARCHITECT OF ALL CHANGES.

43. TOP OF FOOTING ELEVATIONS SHALL BE SET BY G.C. FOR SPECIFIC SITE CONDITIONS.

5. FOOTINGS ARE DESIGNED FOR THE SOIL BEARING CAPACITY OF 2500 PSF AND ARE TO BE VERIFIED BY A REGISTERED SOILS ENGINEER AS REQUIRED.

6. G.C. SHALL CONFIRM ALL ELECTRICAL OUTLET AND FIXTURE LOCATIONS WITH OWNERS.

DESIGN TEAM

OWNER:

ARCHITECT

RICHARD LANDAU ARCHITECTS & PLANNERS 2266 GAINESVILLE HIGHWAY BLAIRSVILLE, GA 30512

CONTACT: RICHARD LANDAU 706-745-5824 775-890-8644 FAX

CONTRACTOR:

WINKLER AND WINKLER CONSTRUCTION PROFESSIONALS P.O. BOX 2282 BLAIRSVILLE, GA 30514

STRUCTURAL ENGINEER

JOHN MCWATERS STRUCTURAL ENGINEER GOLD DUST TRACE DAHLONEGA, GA 30533 (706) 362-9229 202

MECHANICAL/ELECTRICAL ENGINEER

TRINITY ENGINEERING GROUP P.C. 446 GREEN STREET GAINESVILLE, GEORGIA 30501

CONTACT: KEVIN HARRISON 770-535-1044 770-535-0037 FAX

LIST OF DRAWINGS

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SLAB AND FOUNDATION PLAN

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S-3.0 DETAILS AND SECTIONS

SCHEDULES, NOTES AND DETAILS M-0.1

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P-0.0 SCHEDULES, NOTES AND DETAILS

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E-0.2 RISERS AND SCHEDULES

E-1.0 ELECTRICAL SITE PLAN

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E-2.1 LIGHTING PLAN & NOTES

ISSUED FOR PERMITS AND CONSTRUCTION

FEBRUARY 23, 2018

CODE SYNOPSIS

PROJECT NUMBER	PROJECT LOCATION	PROJECT DESCRIPTION
18-19	XTREME CLEAN AUTO SPA WHITE SULPHUR ROAD GAINESVILLE, GA	4,541 sf AUTOMATIC CAR WASH BUILDING

GOYERNING CODES

TYPE	YEAR	APPLICABLE CODES
ARCHITECTURAL	2012 EDITION WITH GA AMENDMENTS	INTERNATIONAL BUILDING CODE (IBC)
ACCESSIBILITY	2010 ADA	ADA/ICC/ANSI II7.I STATE ACCESSIBILITY CODE
ELECTRICAL	2014 EDITION WITH NO AMENDMENTS	NATIONAL ELECTRICAL CODE (NEC)
ENERGY	2009 EDITION WITH GA AMENDMENTS	INTERNATIONAL ENERGY CODE
FIRE SAFETY	2012 EDITION WITH GA AMENDMENTS	INTERNATIONAL FIRE CODE
GAS / FUELS	2012 EDITION WITH GA AMENDMENTS	INTERNATIONAL FUEL/GAS CODE
LIFE SAFETY	2012 EDITION	LIFE SAFETY CODE
MECHANICAL	2012 EDITION WITH GA AMENDMENTS	INTERNATIONAL MECHANICAL CODE
PLUMBING	2012 EDITION WITH GA AMENDMENTS	INTERNATIONAL PLUMBING CODE
SEISMIC HAZARD EXPOSURE GROUP	2012 EDITION WITH GA AMENDMENTS	INTERNATIONAL BUILDING CODE (IBC)

OCCUPANCY & CONSTRUCTION

	OCCUPANCY CLASSIFIC	ATION (IBC 311.2)
	GROUP	В
Ì	DIVISION	BUSINESS

TYPE OF CONSTRUCTION (IBC TABLE 601)

CONSTRUCTION TYPE V-B

ALLOWABLE HEIGHT			
ALLONADLE HEIGHT	40 FT	ACTUAL HEIGHT	37'-5"
ALLOMABLE STORIES	TMO	ACTUAL STORIES	ONE
ALLOMABLE AREA PER FLOOR	9,000 SF	ACTUAL AREA PER FLOOR	4,510 SF

FIRE RATING UNSPRINKLERED

BUILDING ELEMENTS	RATING		RATING
BEARING WALLS -EXTERIOR	0	FLOOR & FLOOR/CEILING	0
-INTERIOR	0	ROOF \$ ROOF/CEILING	0
NON-BEARING - EXTERIOR	0	EXTERIOR DOORS & MINDOWS	0
STRUCTURAL FRAME	0	STAIR CONSTRUCTION	N/A
PARTITIONS - PERMANENT	0	DRAFTSTOPPING-FLOORS	N/A
SHAFT ENCLOSURES	N/A	-ATTIC	N/A

LIFE SAFETY

EXIST AND EGRESS REQUIREMENTS

EXIT ACCESS COMPLIES WITH IBC SECTION IOI4 AND TABLE IO21.1

MEANS OF EGRESS WIDTH (IBC 1015)

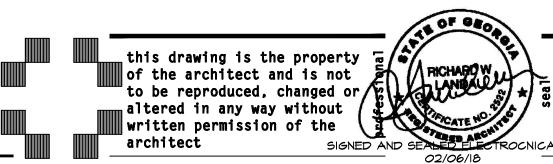
EGRESS MIDTH		INCHES		
STAIR UNITS OF EGRESS WIDTH				
	FURNISHED N/	NCHES		
RULE (IBC I	<i>0</i> 5.2.)			
MAXIMUN	1 DISTANCE OF TE	RAVEL	100 FT	
ACTUAL	MAXIMUM DISTAN			
EGRESS	MAXIMUM OCCL	JPANT LOAD (IE	30 1014.3.2)	N/A
MAXIMUM ALLOW			L BASED ON OCCUPANT LOAD	N/A
HOMN ON	SHEET:	A-II.I		
ATING & A	NSLES			
\$ 1014.4 \$	SHOWN ON SHEET:	N/A		
		N SHEET	N/A	
	MAXIMUN ACTUAL EGRESS SHOWN ON ATING & A & 1014.4	FURNISHED N/A BULE (IBC 1015.2.1) MAXIMUM DISTANCE OF TR ACTUAL MAXIMUM DISTANCE EGRESS MAXIMUM OCCU MAXIMUM ALLO HOWN ON SHEET: ATING & AISLES & 1014.4 SHOWN ON SHEET: ESIDENTIAL OCCUPANCY &	FURNISHED INCHES TH REQUIRED N/A INCHES FURNISHED N	FURNISHED INCHES TH REQUIRED N/A INCHES FURNISHED N/A INCHES FU

ACCESSIBILITY

DESIGN CONFORMS TO ICC/ANSI AII7.I-2003	
SEE SHEET A-S.I FOR RESTROOM PLANS AND ELEVATIONS	
AN ACCESSIBLE EGRESS ROUTE IS PROVIDED THROUGHOUT THIS BUILD!	NG PER IBC 1103 \$ 1007

usbns bashair ARCHITECTS & PLANNERS

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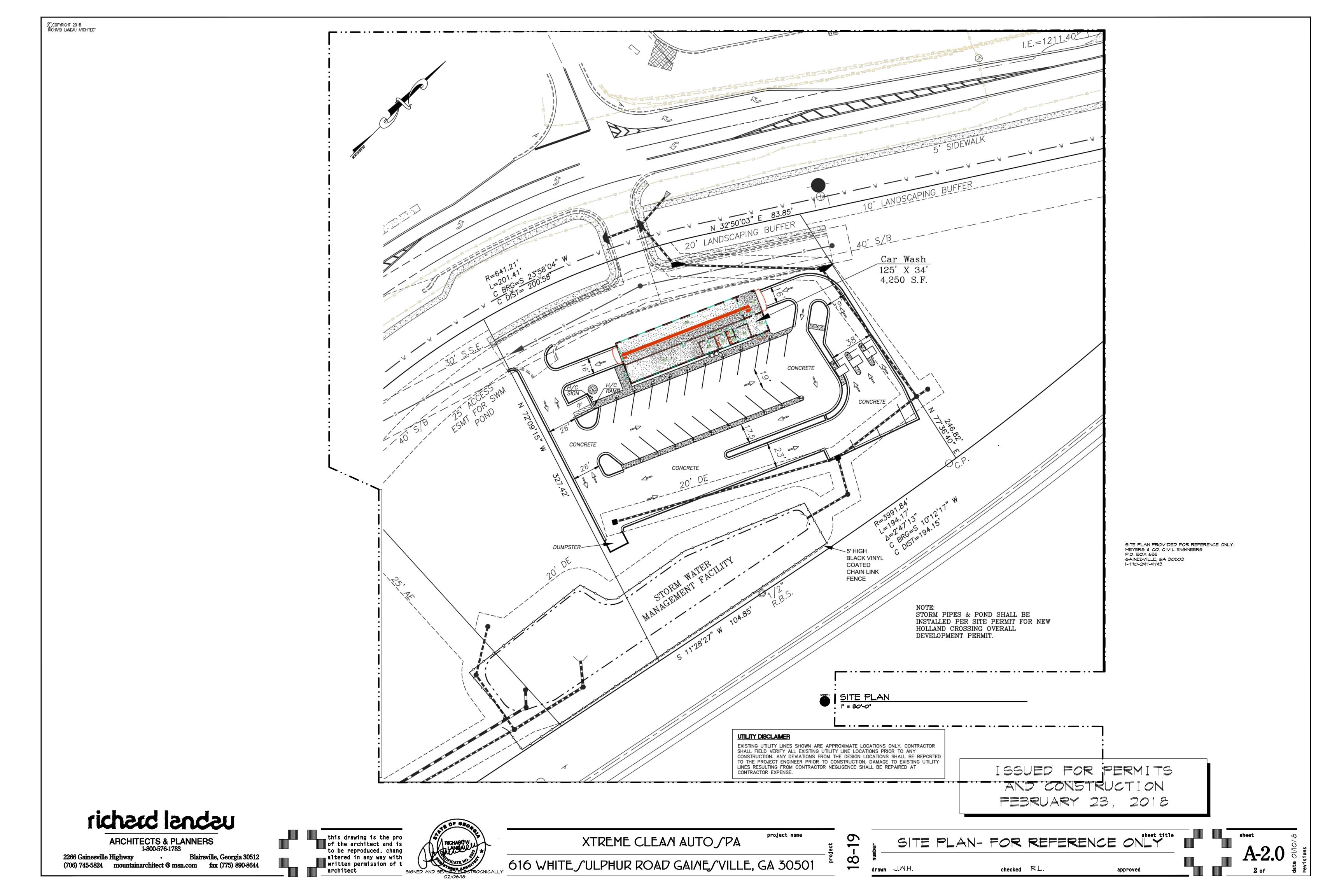
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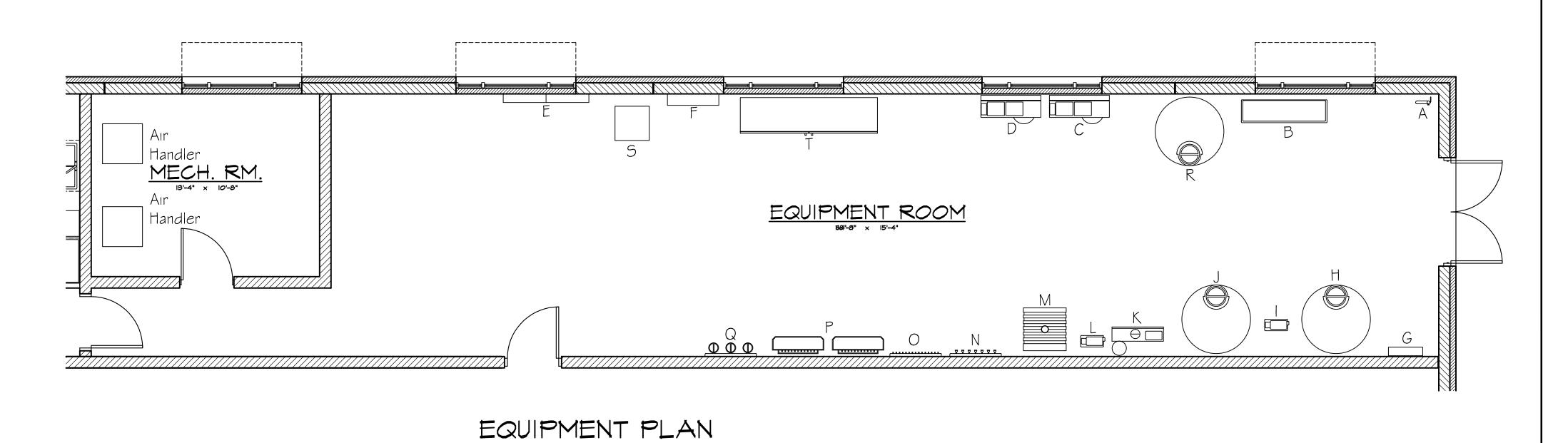
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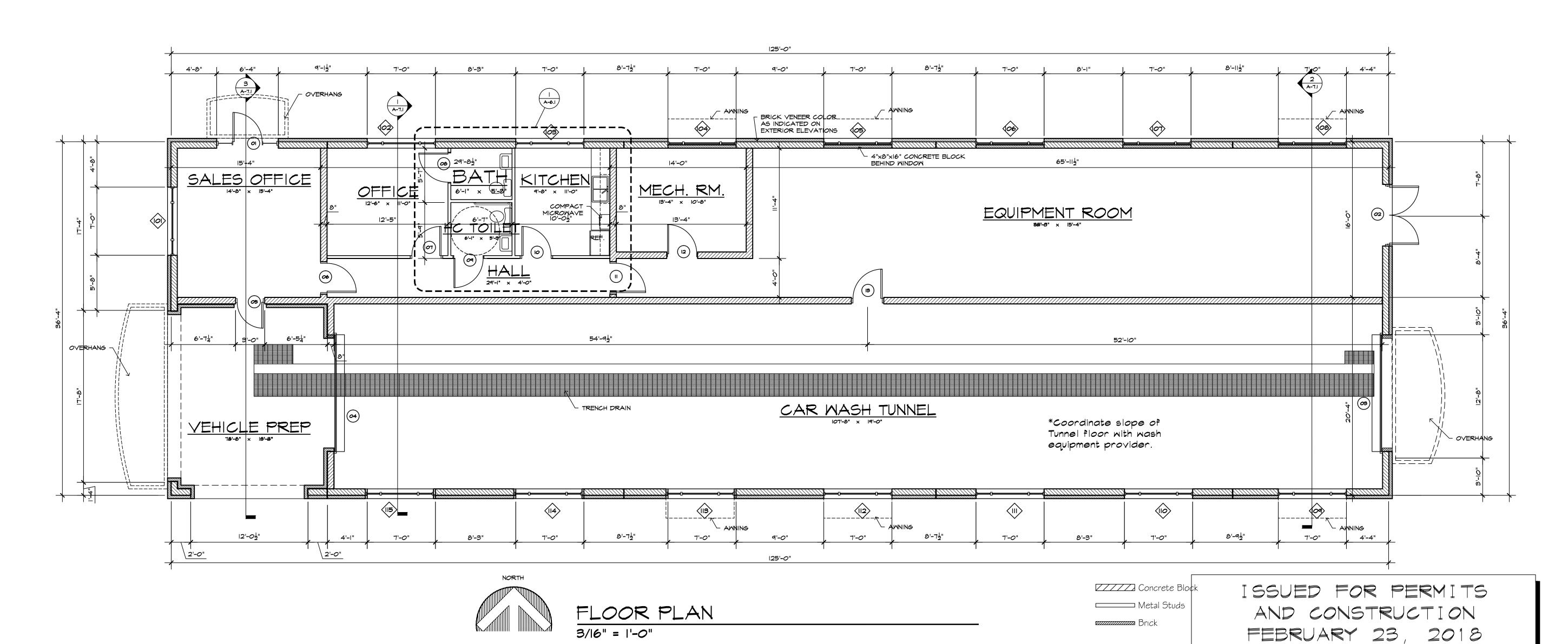
COVER SHEET

checked R.L.



(Car Mash Equipment Schedule
Туре	Description
A	Mater Main Entry
В	Mater Reclaim System
C	Air Compressor
D	Air Dryer
E	Two Section Electrical Sub-Panel
F	3-Phase 277-480 Main Distribution Panel
G	Chemical Panel
H	Reverse Osmosis System Reject Tank
	Reverse Osmosis System Repressurization
7	Reverse Osmosis System Storage Tank
K	Reverse Osmosis System
	Reverse Osmosis System Repressurization Pump
M	High Pressure Pump
N	Air Distribution Panel
0	Water Distribution Panel
P	Chemical Panel
Q	Chemical Pumps
R	Water Reclaim Storage Tank
S	Step Down Transformer
T	Master Control Center





|/4" = |'-0"

richard landau

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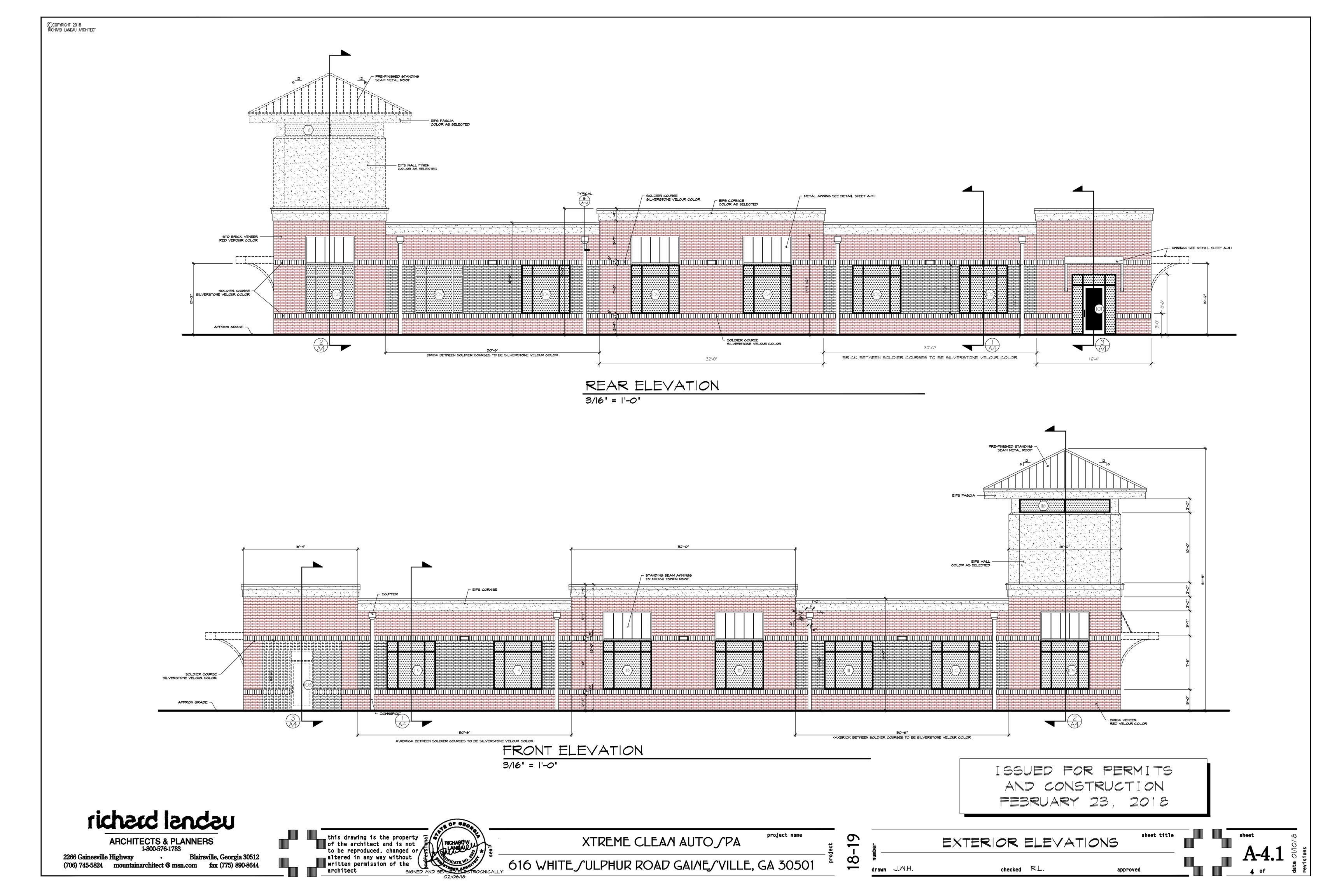
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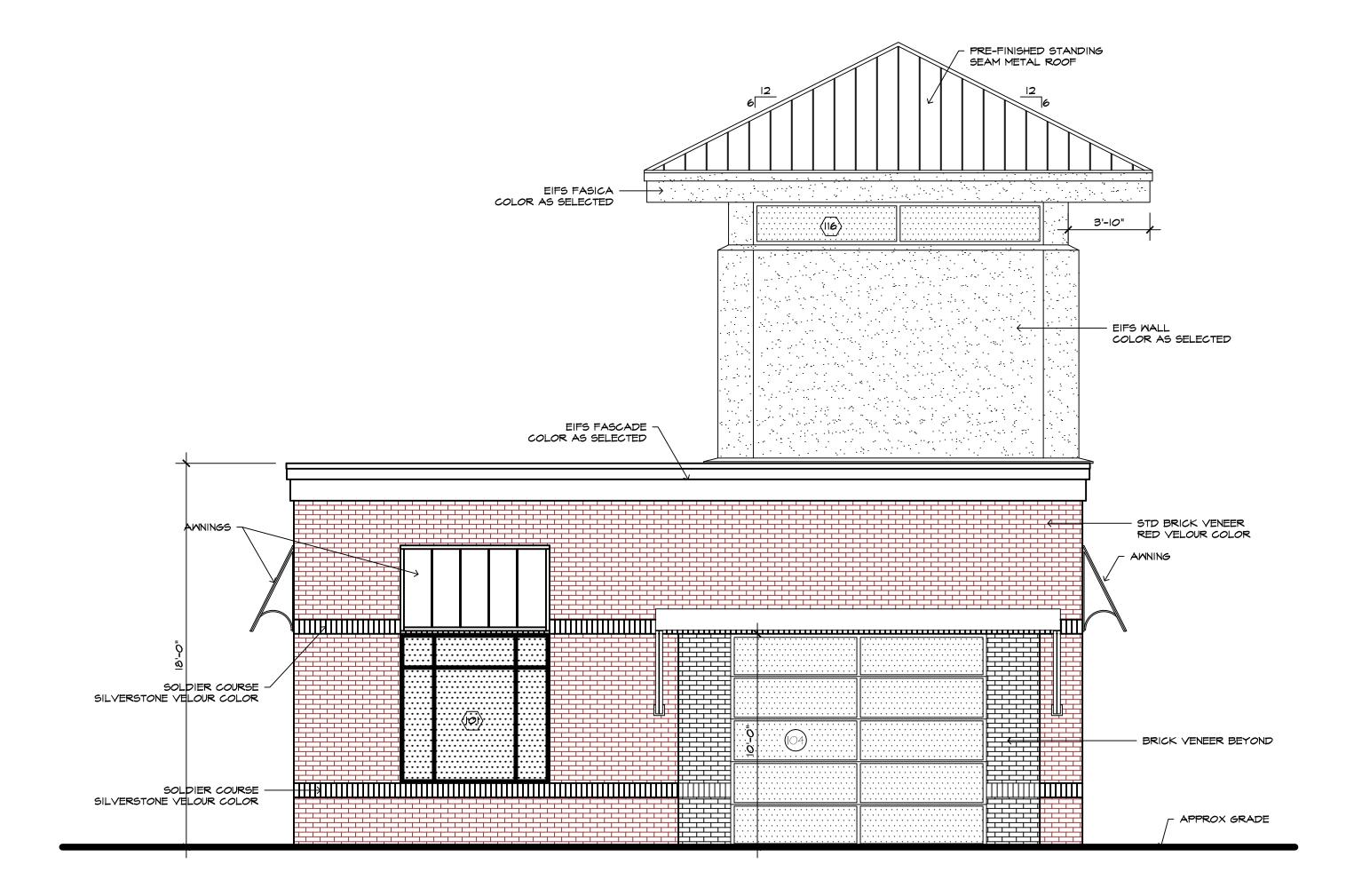
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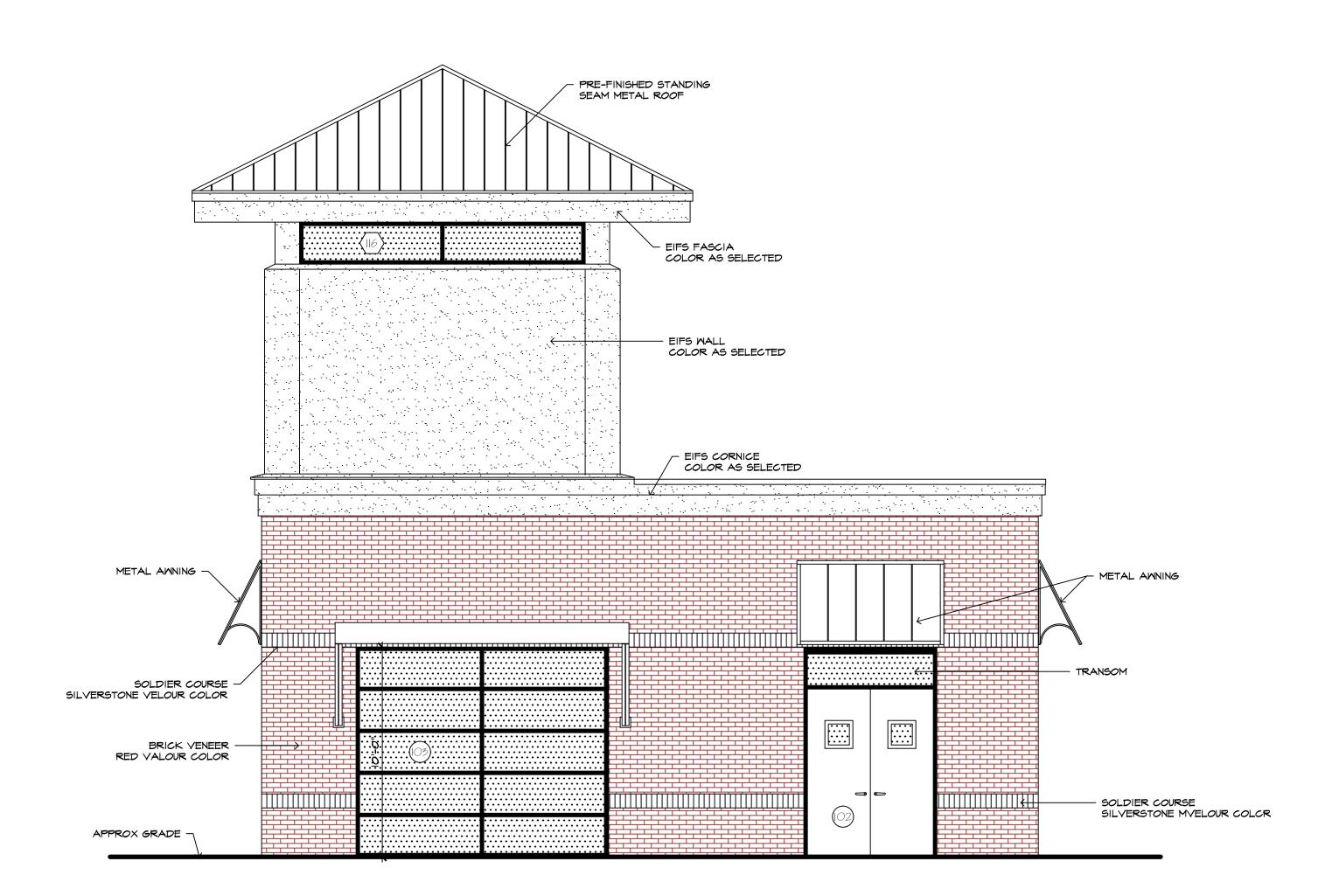
A-3.1





LEFT SIDE ELEVATION

1/4" = 1'-0"



RIGHT SIDE ELEVATION

1/4" = 1'-0"

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STREME CLEAN AUTO JPA

TROCNICALLY

616 WHITE JULPHUR ROAD GAINE VILLE, GA 30501

18-1

ISSUED FOR PERMITS AND CONSTRUCTION FEBRUARY 23, 2018

EXTERIOR ELEVATIONS

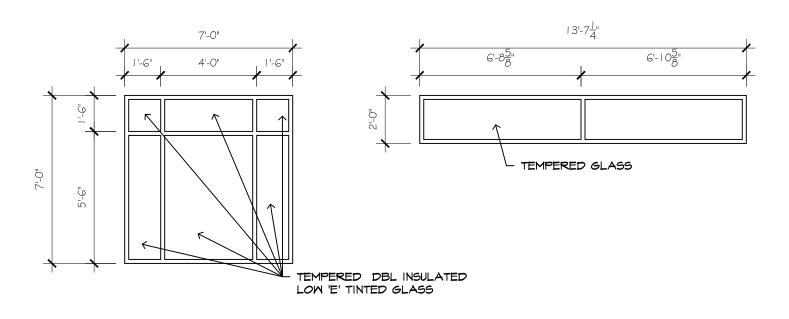
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A-4.2

sheet

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	DOOR AND FRAME SCHEDULE									
DOOR					FRAME					
MARK	DOOR SIZE	TYPE	GLAZING	FINISH	MATERIAL	FINISH	MATERIAL	HARDWARE	ELEVATION	NOTES
I	3'-0" × 7'-0"	STOREFRONT	TEMPERED DOUBLE INSULATED, LOW 'E', TI	NTED ANODIZED	ALUMINUM/GLASS	ANODIZED	ALUMINUM	PUSH/PULLS, DEADBOLT W/ INTERIOR THUMBTURN, CLOSER, PIVOTS OR BUTTS	Α	WITH TEMPERED GLASS TRANSOM AND SIDELIGHTS
2	PR 3'-0" x 8'-0"	DOUBLE HINGED, FLUSH	TEMPERED CLEAR	PAINTED	H.M.	PAINTED	H.M.	LOCKSET, DEADBOLT, SURFACE BOLTS,CRASH CHAINS	C	WITH 12X12 TEMPERED GLASS VISION PANEL AND TRANSOM
3	12'-0" × 10'-0"	OVERHEAD COILING		PRE-FINISHED	ALUMINUM	PRE-FINISHED	ALUMINUM	BY MFR.	D	
4	12'-0" × 10'-0"	OVERHEAD COILING		PRE-FINISHED	ALUMINUM	PRE-FINISHED	ALUMINUM	BY MFR.	D	
5	2'-8" × 7'-0"	STOREFRONT	TEMPERED DOUBLE INSULATED, LOW 'E', TI	NTED ANODIZED	ALUMINUM/GLASS	ANODIZED	ALUMINUM	PUSH/PULLS, DEADBOLT W/ INTERIOR THUMBTURN, CLOSER, PIVOTS OR BUTTS	В	WITH TEMPERED GLASS TRANSOM
6	3'-0" × 6'-8"	HINGED SINGLE, FLUSH		PAINT	H.M.	PAINT	H.M.	LOCKSET,I I/2 PR BUTTS	E	
7	3'-0" × 6'-8"	HINGED SINGLE, FLUSH		PAINT	H.M.	PAINT	H.M.	LOCKSET, I I/2 PR BUTTS	E	
8	3'-0" × 6'-8"	HINGED SINGLE, FLUSH		PAINT	H.M.	PAINT	H.M.	PRIVACY LATCH, I 1/2 PR BUTTS	E	
9	3'-0" × 6'-8"	HINGED SINGLE, FLUSH		PAINT	H.M.	PAINT	H.M.	PRIVACY LATCH, I 1/2 PR BUTTS	E	
10	3'-0" × 6'-8"	HINGED SINGLE, FLUSH		PAINT	H.M.	PAINT	H.M.	LOCKSET, I I/2 PR BUTTS	E	
П	3'-0" × 6'-8"	HINGED SINGLE, FLUSH		PAINT	H.M.	PAINT	H.M.	LOCKSET,I I/2 PR BUTTS	E	
12	3'-0" × 6'-8"	HINGED SINGLE, FLUSH		PAINT	H.M.	PAINT	H.M.	LOCKSET, I I/2 PR BUTTS	E	
13	3'-0" × 6'-8"	HINGED SINGLE, FLUSH		PAINT	H.M.	PAINT	H.M.	LOCKSET, I I/2 PR BUTTS	E	

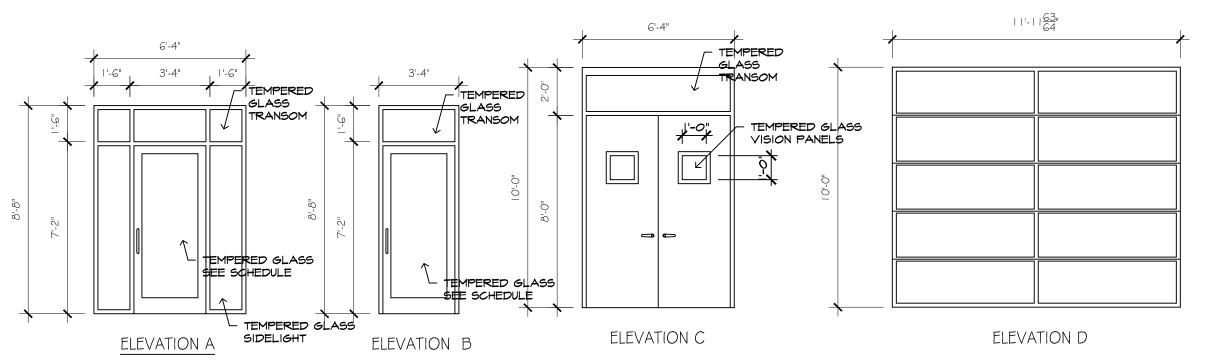


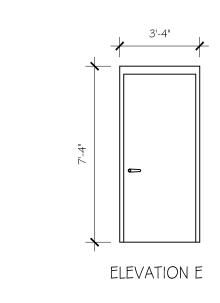
Window 116

Window 101 THRU 115

MINDOM SCHEDULE

1/4" = 1'-0"

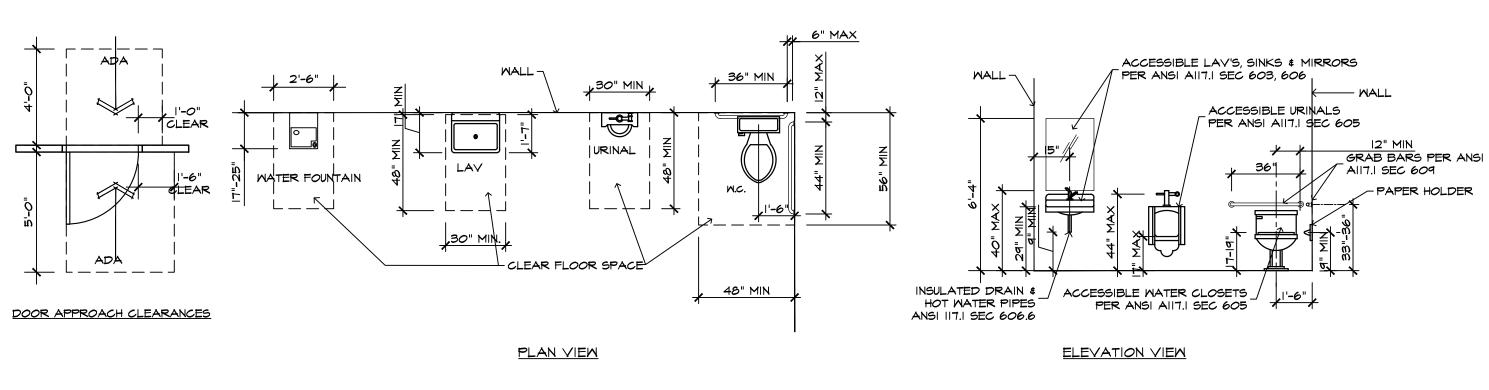




DOOR ELEVATIONS

|/4" = |'-0"

	ROOM FINISH SCHEDULE									
De ana Niveria an	BOOM NAME	FLOOR	BACE		MA	LLS		CEILINGS	Votes	
Room Number	ROOM NAME	FLOOR	BASE	N	5	E	M	MATL	CLG HGT	NOTES
101	CAR WASH TUNNEL	BROOMED CONCRETE	NONE	PLASTIC LINER PANEL BY EXTRUTECH	12'-0"					
102	EQUIPMENT ROOM	BROOMED CONCRETE	NONE	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	1/2" PLYWOOD/PAINTED	12'-0"	
103	VEHICLE PREP	BROOMED CONCRETE	NONE	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	PLASTIC LINER PANELS BY EXTRUTECH	12'-0"	
104	SALES OFFICE	ACID ETCHED AND STAINED CONCRETE	VINYL	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	SUSPENDED 2X2 ACOUSTIC TILE	10'-4"	
105	HALL	ACID ETCHED AND STAINED CONCRETE	VINYL	GYP BOARD/PAINTED	MASONRY/PAINTED	MASONTY/PAINTED	GYP BOARD/PAINTED	SUSPENDED 2X2 ACOUSTIC TILE	10'-4"	
106	MECH. RM.	BROOMED CONCRETE	NONE	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	MASONRY/PAINTED	SUSPENDED 2X2 ACOUSTIC TILE	10'-4"	
107	KITCHEN	ACID ETCHED AND STAINED CONCRETE	VINYL	MASONRY/PAINTED	GYP BOARD/PAINTED	MASONRY/PAINTED	GYP BOARD/PAINTED	SUSPENDED 2X2 ACOUSTIC TILE	10'-4"	
108	OFFICE	ACID ETCHED AND STAINED CONCRETE	VINYL	MASONRY/PAINTED	GYP BOARD/PAINTED	GYP BOARD/PAINTED	MASONRY/PAINTED	SUSPENDED 2X2 ACOUSTIC TILE	10'-4"	
109	BATH	ACID ETCHED AND STAINED CONCRETE	VINYL	GYP BOARD/PAINTED	GYP BOARD/PAINTED	GYP BOARD/PAINTED	GYP BOARD/PAINTED	SUSPENDED 2X2 ACOUSTIC TILE	10'-4"	
110	HC TOILET	ACID ETCHED AND STAINED CONCRETE	VINYL	GYP BOARD/PAINTED	GYP BOARD/PAINTED	GYP BOARD/PAINTED	GYP BOARD/PAINTED	SUSPENDED 2X2 ACOUSTIC TILE	10'-4"	



TYPICAL HEIGHTS AND CLEARANCES FOR ACCESSIBILITY

NO SCALE

richard landau

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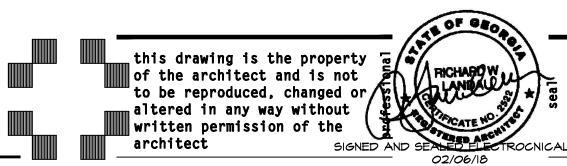
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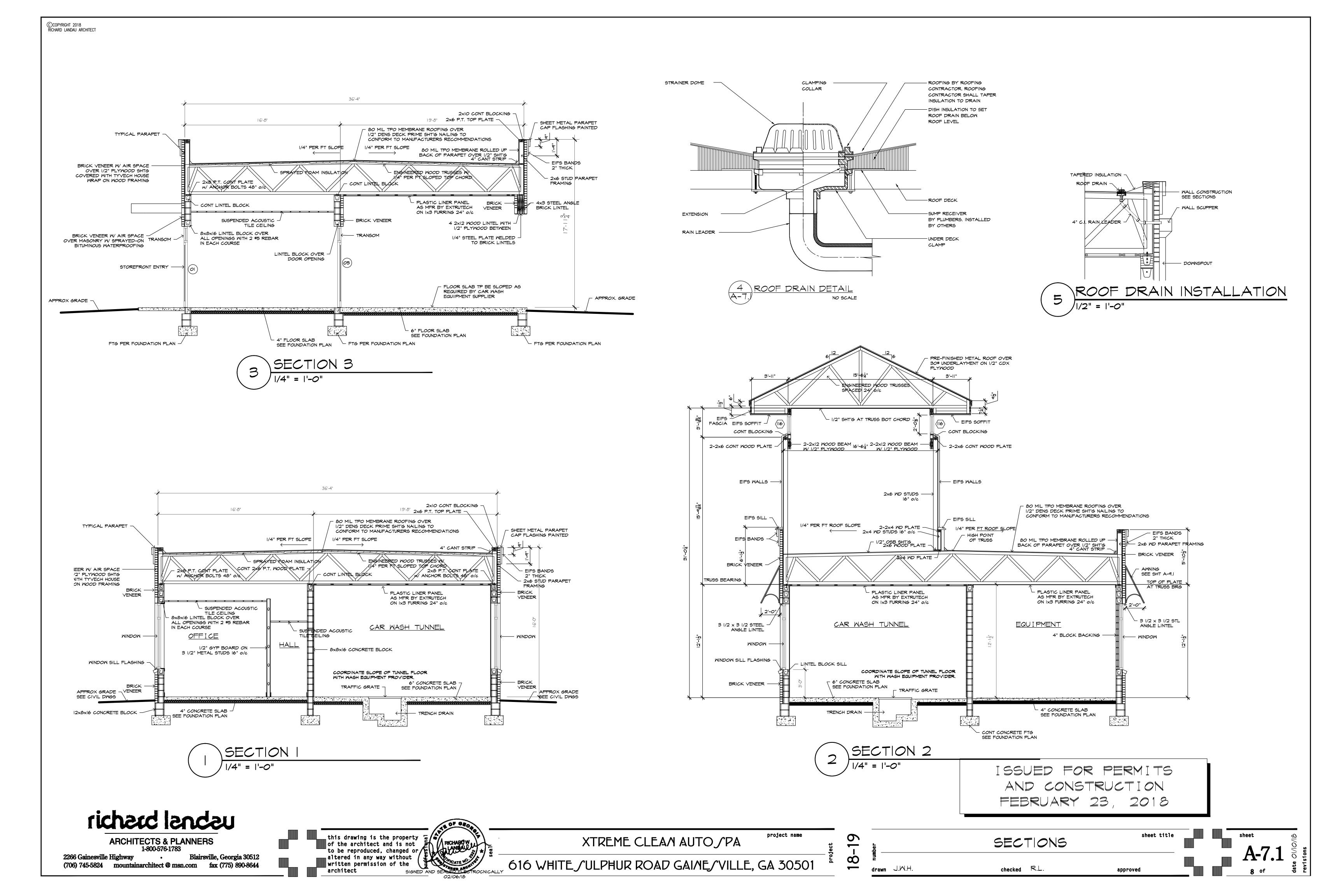
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O16 WHITE JULPHUR ROAD GAINE JVILLE, GA 30501

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AND CONSTRUCTION
FEBRUARY 23, 2018

DOOR, WINDOW, FINISH SCHEDULES

drawn J.M.H. checked R.L. approved

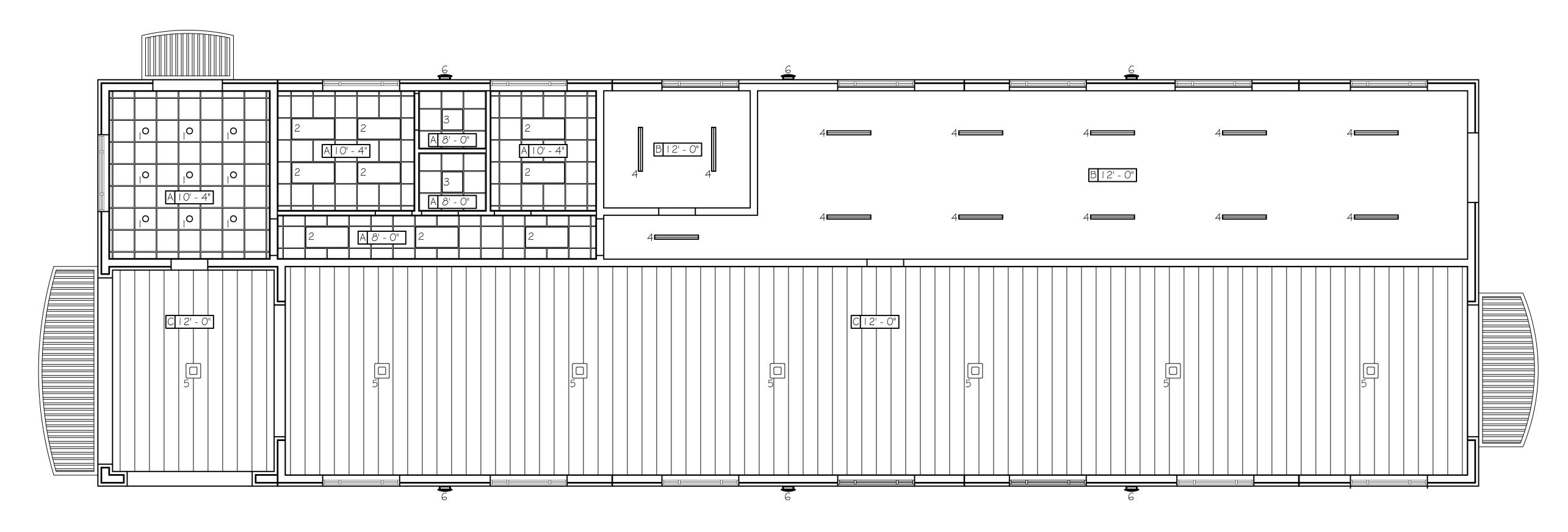




	Ceiling Schedule
Type	Description
Α	2' x 2' Suspended Acoustical Ceiling
В	Painted ½" A-C Plywood
С	Plastic Liner Panels by Extrutech

	Light Fixture Schedule						
Туре	Description						
1	6" LED recessed can light						
2	2'x4' LED lay-ın w/ acrylıc lens						
3	2'x2' LED lay-ın w/ acrylıc lens						
4	4' 2-Lamp fluorescent w/ wire cage wrap around						
5	LSI - Legacy CRU LED Canopy Light (20 $\frac{3}{4}$ x 20 $\frac{3}{4}$)						
6	Invue Entri Round Reveal ENV-E02-LED- 20-BL3-BZ-ULG-LCF						

Note: Two LED flood lights shall be installed inside the tower.

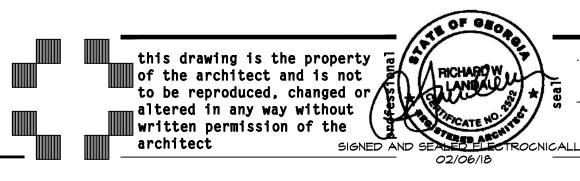


REFELECTED CEILING PLAN

3/16" = 1'-0"

usbnsl bashair

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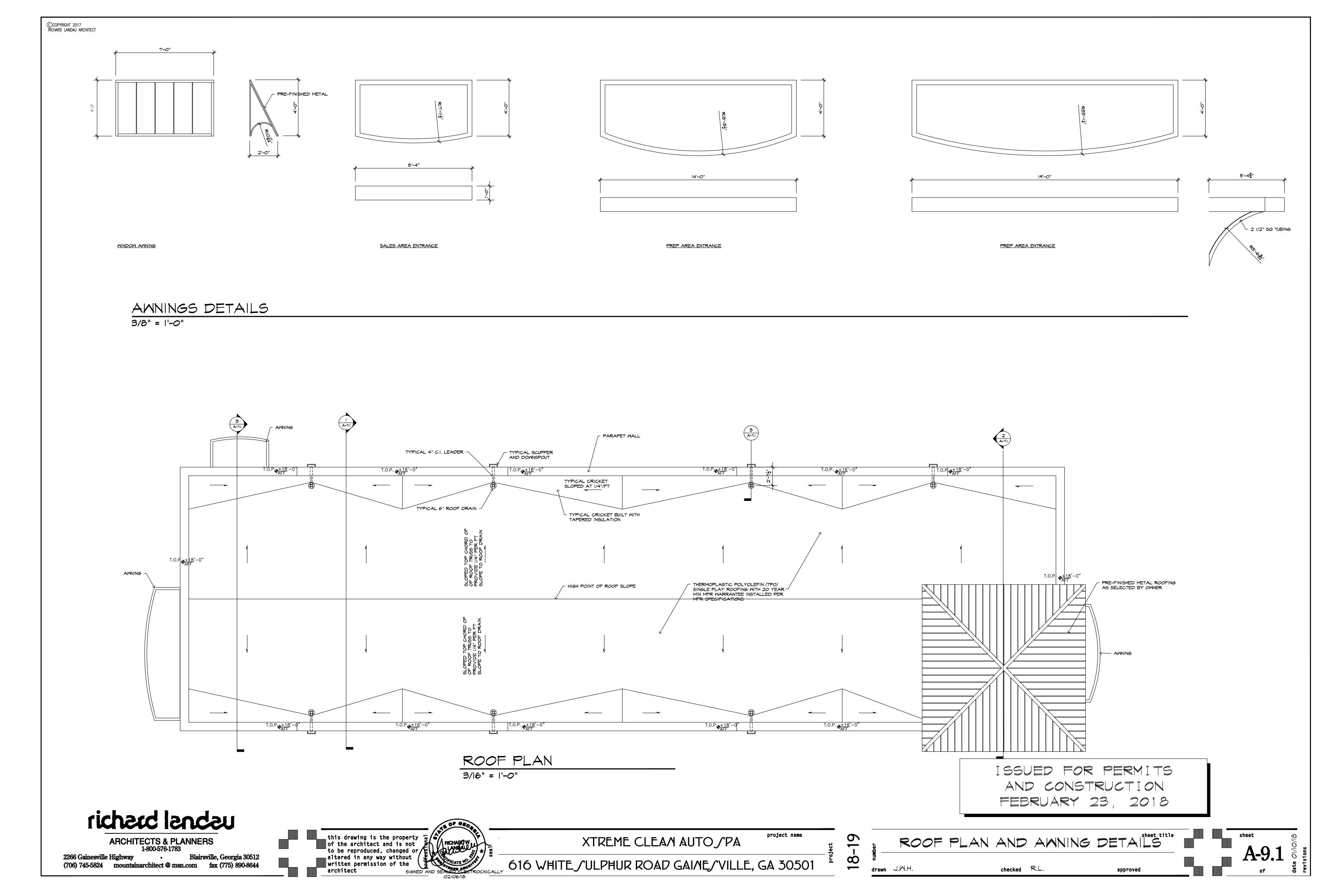
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616 WHITE JULPHUR ROAD GAINE VILLE, GA 30501

ISSUED FOR PERMITS AND CONSTRUCTION FEBRUARY 23, 2018

18-19 REFLECTED CEILING PLAN

checked R.L.





TESTID NOTE: NOT ALL SYMBOLS

ARE USED ON ALL SHEETS.

₩ - EMERGENCY EXIT LIGHT

- EMERGENCY EGRESS LIGHT

= COMBO EMERGENCY & EXIT LIGHT

o - FIRE EXTINGUISHER

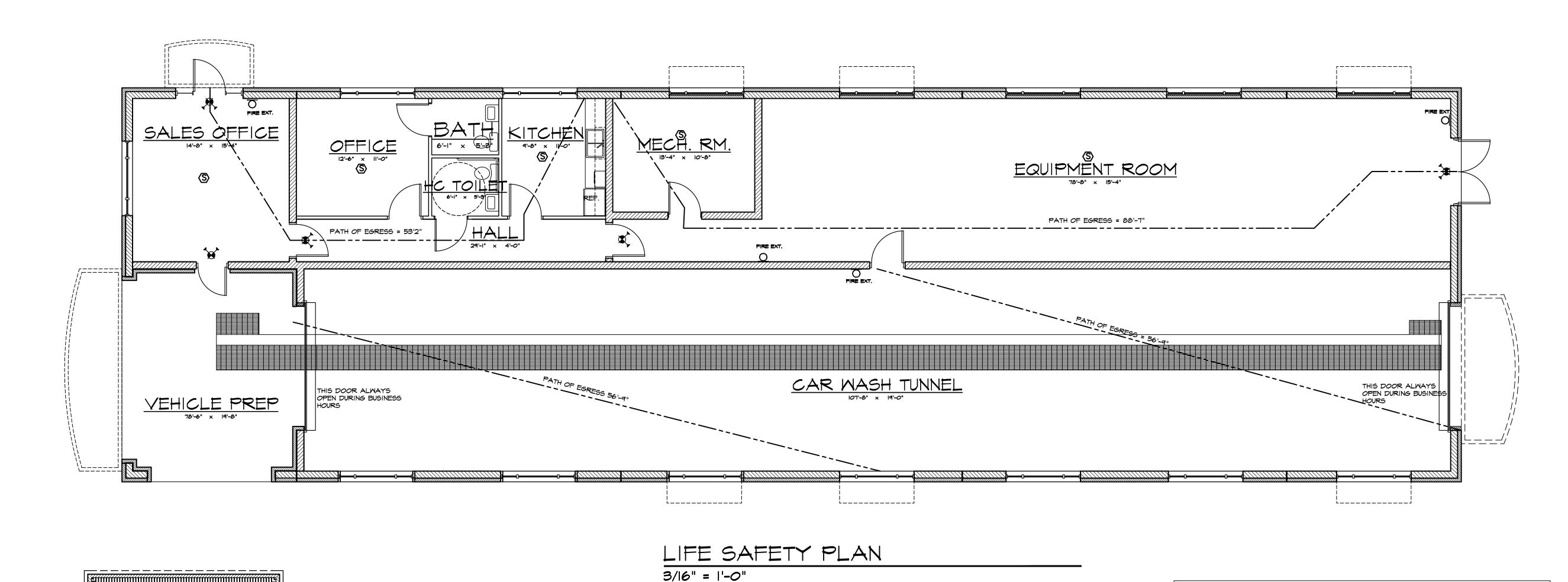
S - SMOKE DETECTOR

LIFE SAFETY/OCCUPANCY											
CALCULATIONS											
ROOM NAME	ROOM NAME OCCUPANCY CLASS FLOOR AREA SF/PERSON OCCUPANT LOAD										
CAR WASH TUNNEL	B-ACCESSORY	2044.876	300	6.8							
EQUIPMENT ROOM	B-ACCESSORY	1046.917	300	3.5							
SALES OFFICE	В	224.889	100	2.2							
HALL	В	116.167	100	1.2							
MECH. RM.	B-ACCESSORY	142.222	300	.5							
KITCHEN	В	105.931	100	1.1							
OFFICE	В	136.979	100	1.4							
BATH	В	32.411	100	.3							
HC TOILET	В	32.411	100	.3							
		TOTALS		17.3							

TOTAL EGRESS WIDTH REQUIRED @ .2" PER OCCUPANT (W/O SPRINKLER SYSTEM): 17.3 * .2 = 3.46"
TOTAL EGRESS WIDTH PROVIDED = 144"

TRAVEL DISTANCE MAXIMUM TRAVEL DISTANCE ALLOWED: MAXIMUM TRAVEL DISTANCE TO EXIT:

100'-0'



Blairsville, Georgia 30512

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FEBRUARY 23, 2018

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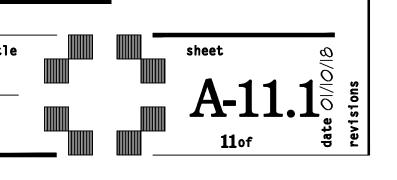
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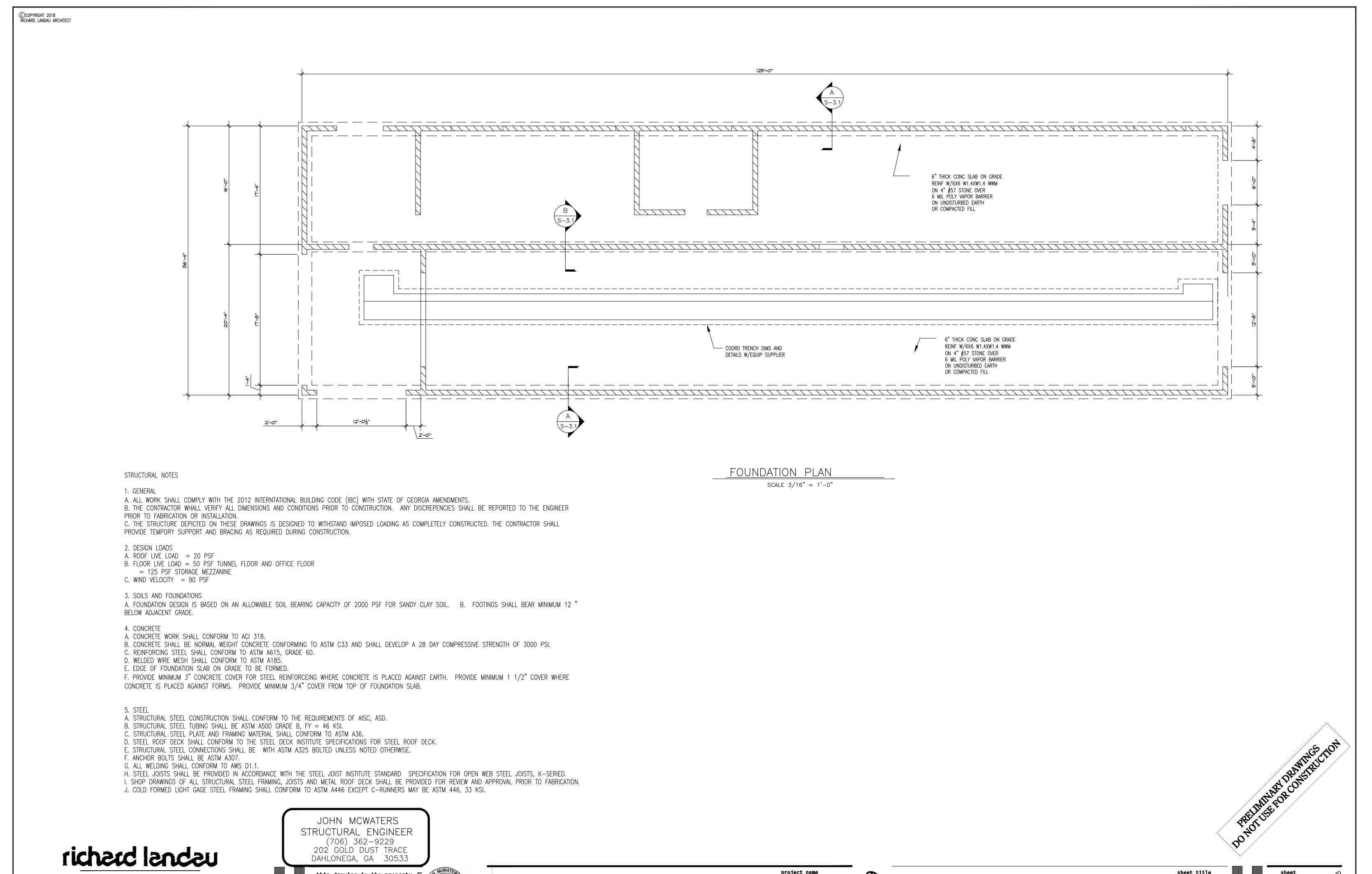
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THE SULPHUR ROAD GAINE VILLE, GA 30501

LIFE SAFETY PLAN

drawn J.M.H. checked R.L.





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DAHLONEGA, GA 30533

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FOUNDATION PLAN

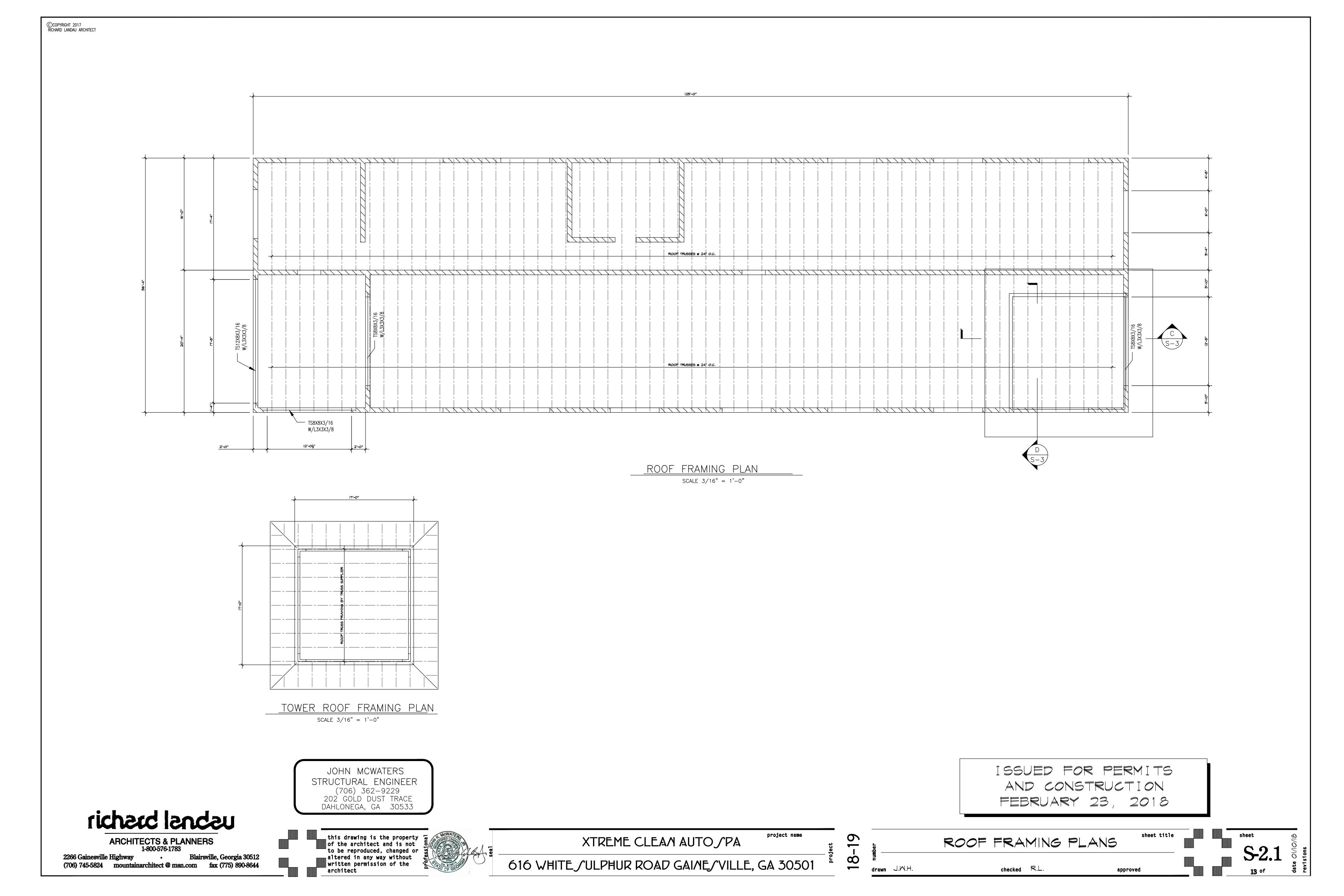
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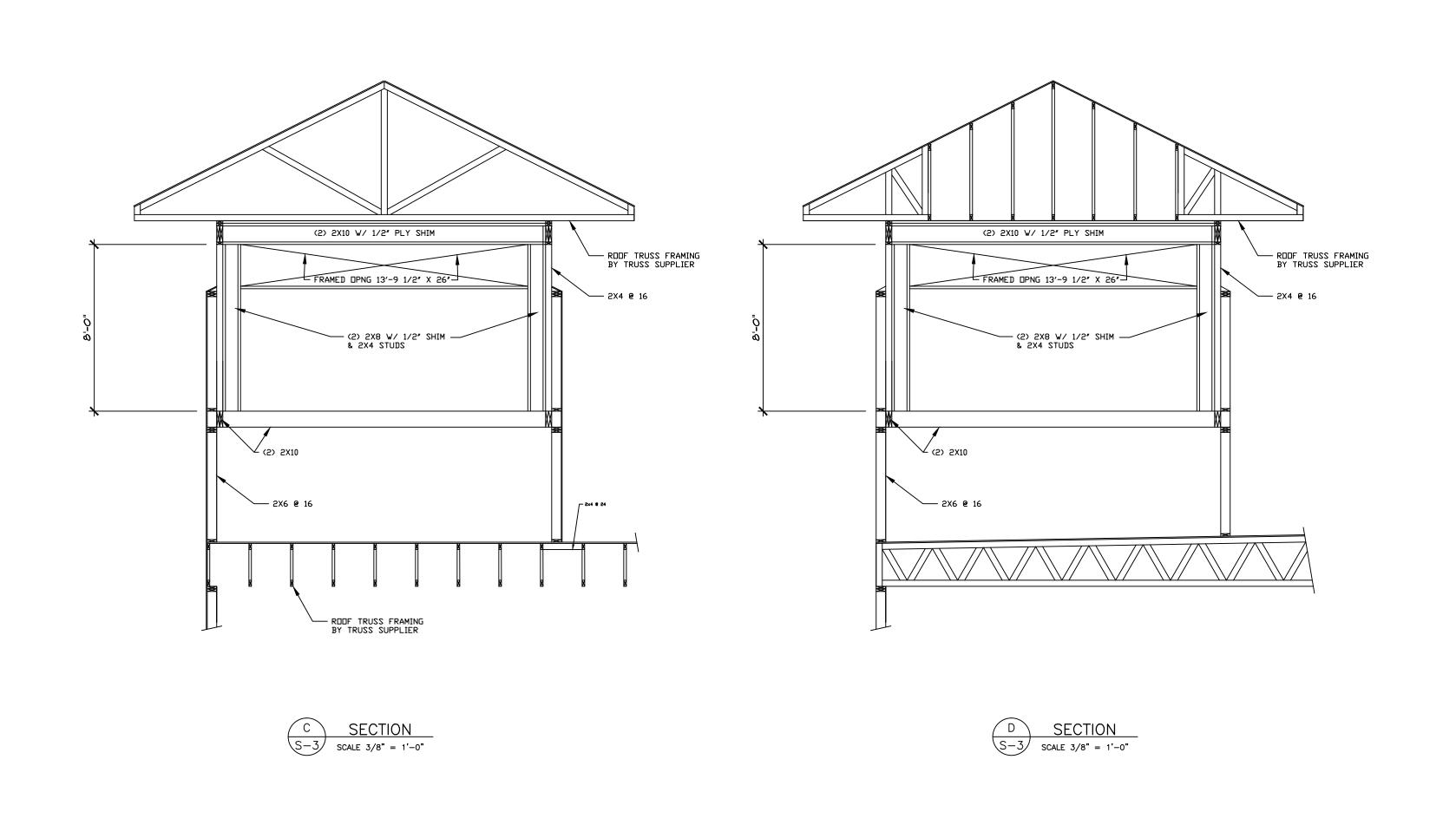
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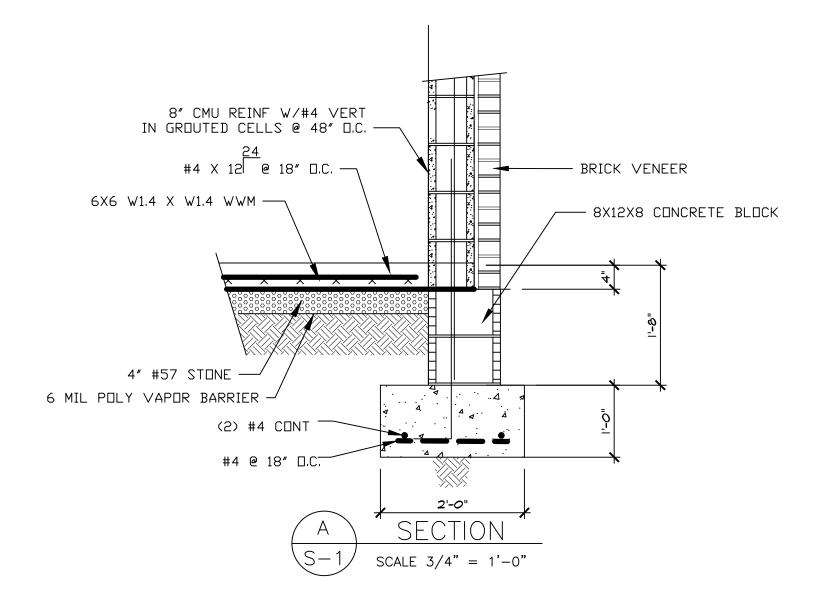
S-1.1

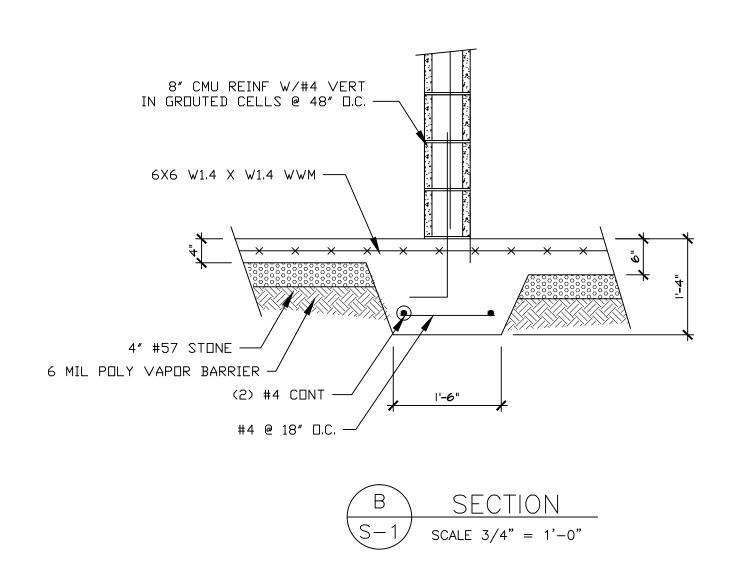
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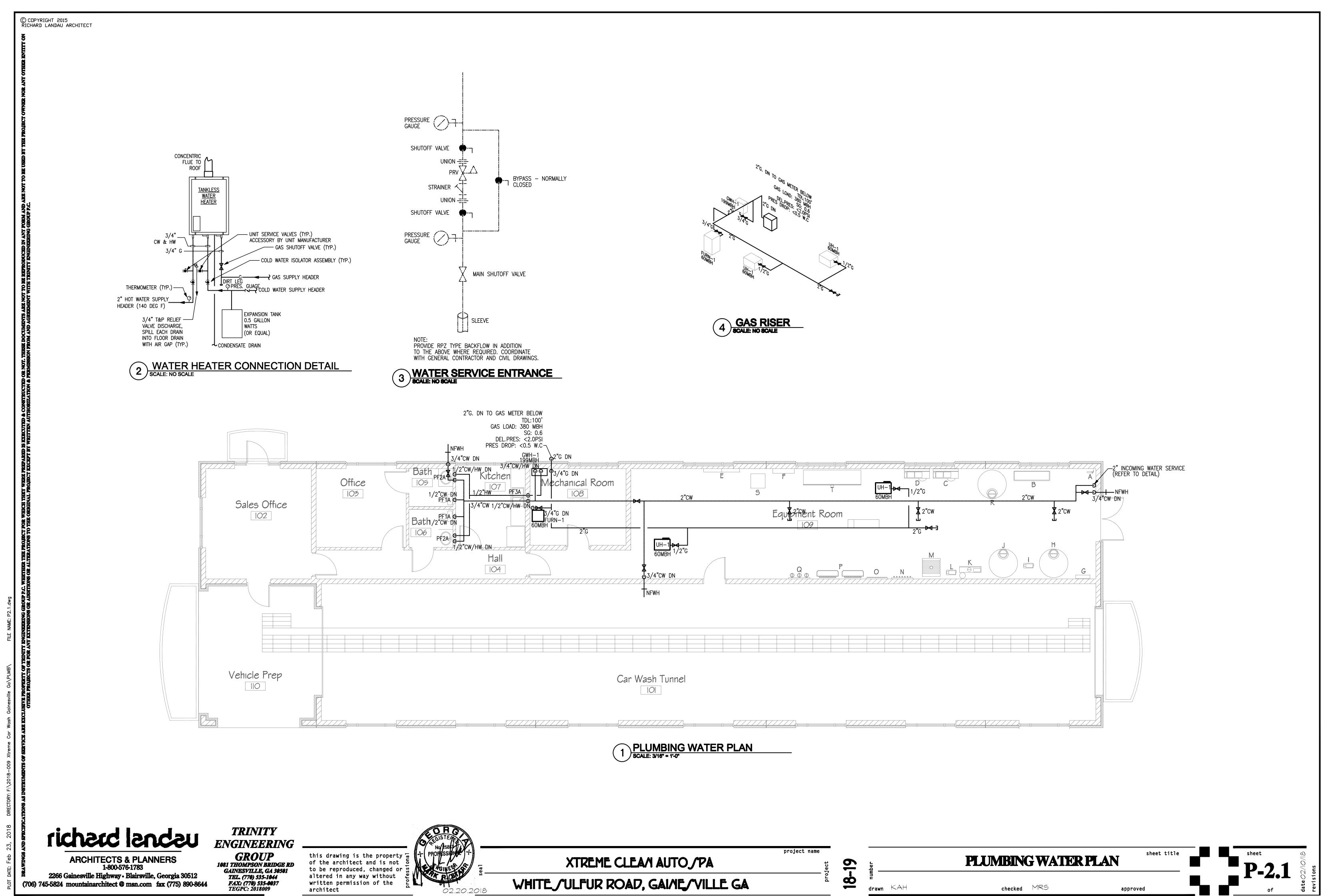
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DAHLONEGA, GA 30533

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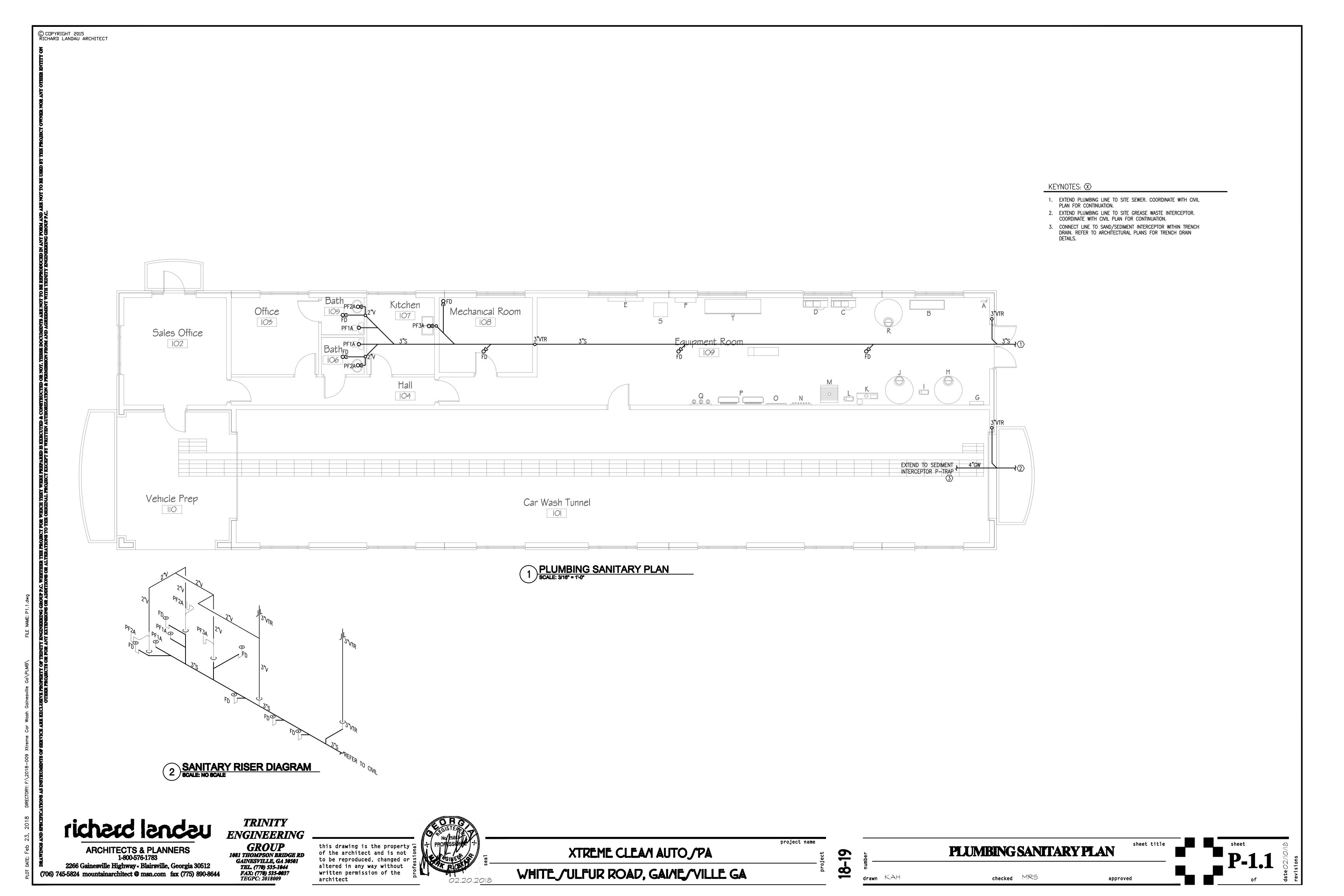
JOHN MCWATERS

project name

		sheet title		sheet		S
5 drawn J.M.H.	checked R.L.	approved		of	date	revisio



approved



PLUMBING GENERAL NOTES

- ALL PIPING SHALL BE ROUTED ABOVE THE FINISHED CEILING SPACE UNLESS OTHERWISE INDICATED. PIPING BELOW THE CEILING LEVEL SHALL BE CONCEALED IN WALLS AND BEHIND FIXED FURNISHINGS UNLESS OTHERWISE INDICATED. ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. ARE CONCEALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED.
- 2. PIPING EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO THE UNDERSIDE OF THE STRUCTURAL STEEL.
- 3. EXPOSED PIPING IN FINISHED AREAS SHALL BE CHROME PLATED WITH CHROME PLATED ESCUTCHEON AT PIPE ENTRY TO FINISHED AREA.
- 4. WHEREVER FOUNDATION WALLS, OUTSIDE WALLS, ROOFS, ETC. ARE PENETRATED FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT. WORK SHALL BE PERFORMED BY CRAFTSMEN SKILLED IN THEIR RESPECTIVE TRADE.
- ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION.
- 6. ALL OPENINGS IN DRAINAGE AND/OR VENT SYSTEMS AS A RESULT OF INSTALLATION ROUGH-IN SHALL BE PROTECTED WITH A TEST PLUG THAT IS SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.
- PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.
- 11. PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE.
- 12. SANITARY DRAINAGE PIPING ABOVE FLOOR SHALL BE SCHEDULE 40 PVC, FITTINGS AND CONNECTIONS. SANITARY DRAINAGE PIPING BELOW GRADE SHALL BE SCHEDULE 40 PVC. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED, 1/8" PER FOOT MIN UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS.
- 14. HOT AND COLD WATER PIPING SHALL BE PEX OR CPVC. PROVIDE MINIMUM 16" HIGH FULL AIR CHAMBER AT EACH FIXTURE STOP.
- 15. CONDENSATE AND INDIRECT DRAIN PIPING SHALL BE SCHEDULE 40 PVC AND TYPE DWV TUBING AND FITTINGS FOR 1-1/4" AND LARGER SIZES.
- 16. INSULATE ALL HOT AND COLD WATER PIPING. PROVIDE 1" PREFORMED FIBERGLASS ASJ-VB, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C-547
- 17. TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED
- 18. THE DOMESTIC WATER SYSTEM, DRAINAGE SYSTEMS, AND GAS PIPING SYSTEM SHALL BE FLUSHED AND PRESSURE TESTED. THE DOMESTIC WATER SYSTEM SHALL BE PURIFIED.
- 19. COORDINATE FIXTURE TYPES WITH THE ARCHITECTURAL DRAWINGS. AREAS DESIGNATED FOR USE BY THE HANDICAPPED SHALL BE SUPPLIED WITH FIXTURES AND TRIM AS SET FORTH IN THE "AMERICANS WITH DISABILITIES ACT" (ADA).
- 20. PROVIDE A 1-1/2" P-TRAP WITH A TRAP PRIMER FOR WATER HEATER P&T DISCHARGE.
- 21. HOSE BIBBS SHALL BE NON-FREEZE, BACK-FLOW PREVENTER TYPE.
- 22. COORDINATE ELECTRICAL VOLTAGES WITH ELECTRICAL DRAWINGS AND ELECTRICAL SUB-CONTRACTOR PRIOR TO ORDERING ANY EQUIPMENT.
- 23. COORDINATE LOCATION OF FLOOR DRAINS IN MECHANICAL ROOMS WITH MECHANICAL EQUIPMENT AND MECHANICAL SUB-CONTRACTOR..

	F	PLUMBING FIXTURE SCHEDULE			
MARK	FIXTURE	DESCRIPTION	WASTE CONN.	C.W. SUPPLY	H.W. SUPPLY
PF1A	WATER CLOSET — FLOOR MOUNTED FLUSH TANK ADA COMPLIANT	HANDICAPPED - AMERICAN STANDARD MODEL NO. 2467.100 ELONGATED BOWL, PRESSURE ASSISTED FLUSH TANK (25-80PSI OPER. PRESSURE), 1.1 GPF, WHITE VITREOUS CHINA FINISH, 15" HIGH BOWL, AMERICAN STANDARD 5905.100T WHITE SOLID PLASTIC OPEN FRONT HEAVY DUTY SEAT.	3"	1"	
PF2A	LAVATORY — WALL MOUNTED ADA COMPLIANT	AMERICAN STANDARD 0355.012 LUCERNE VITREOUS CHINA WALL MOUNTED 20" X 18" LAVATORY PUNCHED ON 4" CENTERS, AMERICAN STANDARD FAUCET: 8123F WRIST BLADE FAUCET WITH 0.5GPM AERATOR, LESS DRAIN, 1/2"MALE THREADED CONNECTIONS. ADJUSTABLE TEMPERING VALVE. AMERICAN STANDARD 2411.015 GRID DRAIN WITH 1-1/4" TAILPIECE. MCGUIRE 170 SUPPLY TO WALL WITH WHEEL HANDLE STOPS, EXTENSION TUBE TO WALL AND FLEXIBLE RISERS. MCGUIRE 8872 P-TRAP 1-1/4" X 1-1/4" WITH CAST BRASS NUTS AND CLEANOUT PLUG.	1 1/4"	1/2"	1/2"
PF3A	DOUBLE COMPARTMENT SINK ADA COMPLIANT	33X22 STAINLESS STEEL SINK, DROP-IN, SELF RIMMING, 8" DEEP BOWL, 3" DIA OUTLET. AMERICAN STANDARD 20DB.8332283S.075 SINK FAUCET - SINGLE WRIST BLADE WITH SIDE SPRAY, 8" CENTERS. AMERICAN STANDARD #7074.040	3"	1/2"	1/2"
FD	FLOOR DRAIN	FLOOR DRAIN - JOSAM 30000-5A WITH 1/2" TRAP PRIMER CONNECTION, ADJUSTABLE STRAINER NECK, ROUND STRAINER	2"		
NFWH	FROST-PROOF HOSE BIB	FROST PROOF WALL HYDRANT, STAINLESS STEEL WALL BOX, LOCKABLE COVER, KEY OPERATED VALVE, DOUBLE CHECK VALVE/BACK-FLOW PREVENTER. 4" DEEP HOUSING. ARROWHEAD #AC415-08LKNL.		3/4"	

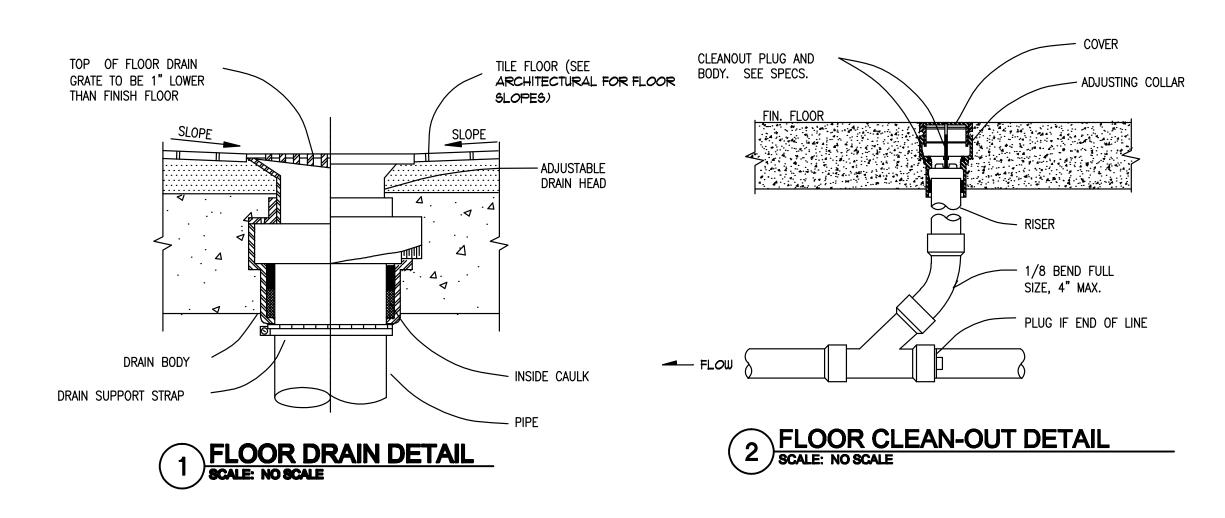
NOIE	S:							
1.	FQUAI	PI UMBING	FIXTURES	SELECTED.	BY THE	CONTRACTOR	SHALL	BE ACCEPTABLE.

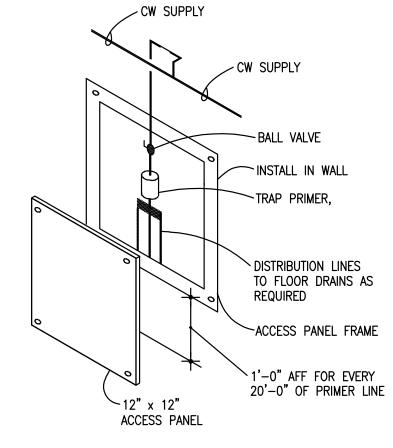
120V CONTROL CIRCUITING; COORDINATE WITH ELECTRICIAN FOR CONNECTION REQUIREMENTS.

GAS WATER HEATER SCHEDULE									
MARK MAKE & MODEL STORAGE MBH SUPPLY TEMP. RECOVERY MIN/MAX ACCESSORIES									
GWH-1	NAVIEN NPE-240	INST. 0	199.9	140.0	67.0	5.6GPM @ 67°F	0.5/5.6	1-3	
NOTES:	•			•			•		

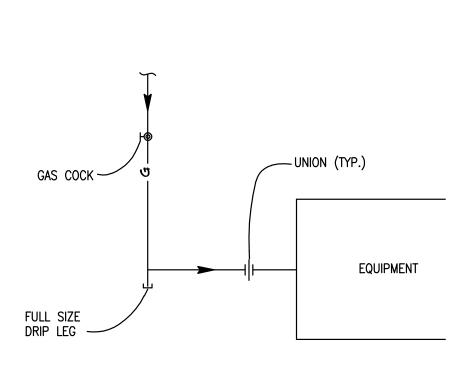
WALL MOUNTED HEATERS; SHALL BE INTERCONNECTED CONTROLS AND HEADER PIPING PER MANUF. INSTALLATION REQUIREMENTS.

——— 5———	 SOIL OR WASTE ABOVE FLOOR OR GRADE (S. or W.) (PLAN VIEW)
5	- SOIL OR WASTE BELOW GRADE (S. or W.) (PLAN VIEW)
	GREASE/WASTE LINE BELOW GRADE (PLAN VIEW)
	- VENT LINE (V.) (PLAN VIEW) - COLD WATER LINE (CW)
	- HOT WATER LINE (140 DEG HW)
	- HOT WATER RETURN LINE.
	- GAS PIPING
<u>_</u>	PIPE DOWN
	PIPE UP
	BREAK
JL	RISER VENT THRU ROOF
	FLOOR DRAIN (F.D.) OR FLOOR SINK (FS)
(a)	FLOOR CLEAN OUT
C.W. H.W. HC W.H. P.R.V. B.F.P. CO GCO FCO SAN GW V	COLD WATER HOT WATER HANDICAPPED WATER HEATER PRESSURE REDUCING VALVE BACK-FLOW PREVENTER CLEAN-OUT GRADE CLEAN-OUT FLOOR CLEAN-OUT SANITARY WASTE GREASE WASTE VENT VENT THRU ROOF

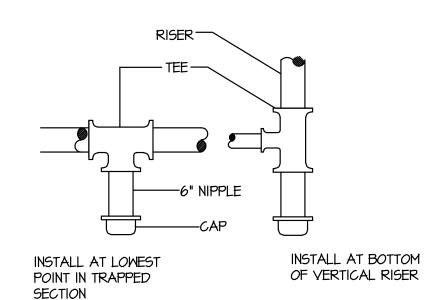








4 TYPICAL GAS CONNECTION SCALE: NO SCALE



GAS DRIP LEG DETAIL

SCALE: NO SCALE

approved

usbnsl bashair

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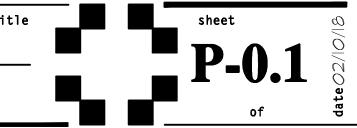
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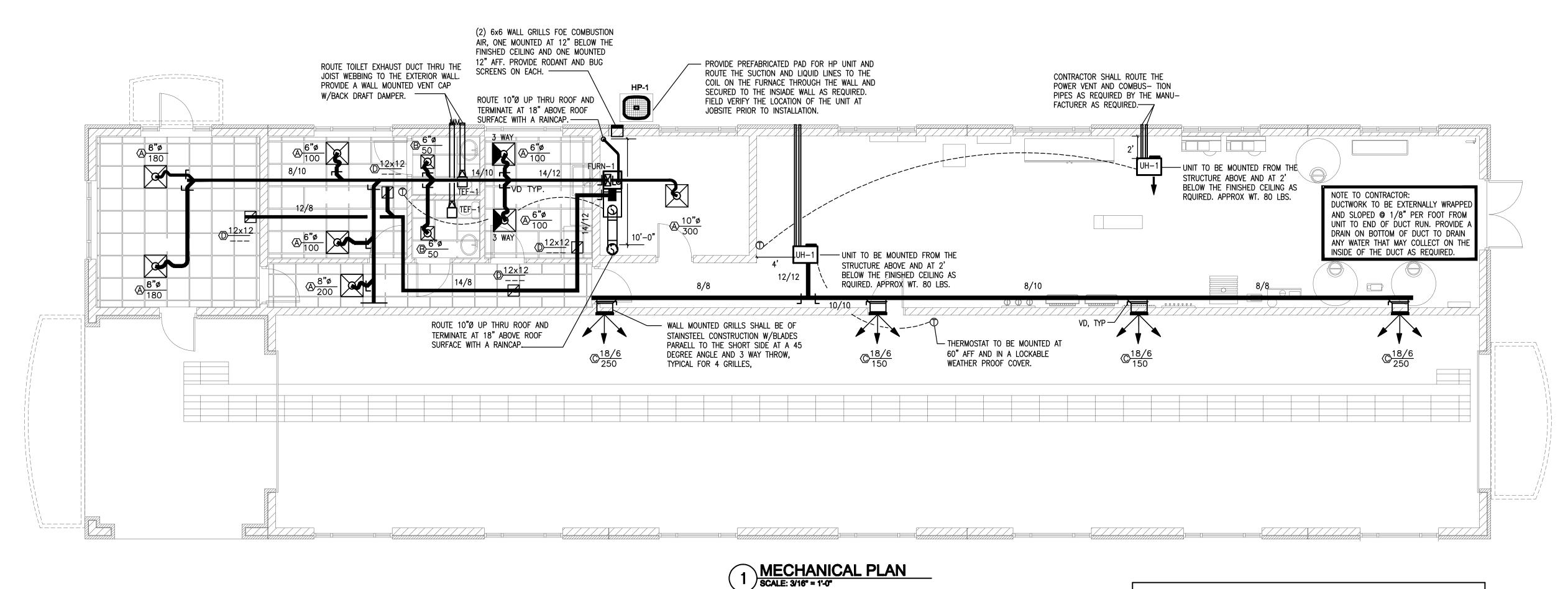
PLUMBING NOTES AND DETAILS

checked MRS



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18-1



	HVAC SYMBOLS AND ABBREVIATIONS										
	NEW DUCTWORK	RTU-*	ROOFTOP UNIT								
~~	FLEXIBLE DUCT	FURN-*	FURNACE								
	VOLUME DAMPER	CFM	CUBIC FEET PER MINUTE								
⊠/—	SUPPLY DIFFUSER	○ —	DIFFUSER DESIGNATION								
	RETURN OR EXHAUST GRILLE	Ŧ	THERMOSTAT								
HP-*	HEAT PUMP CONDENSER	UH-*	GAS FIRED UNIT HEATER								

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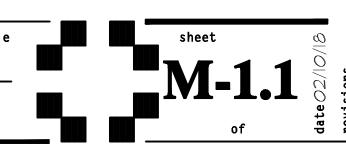
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18-19

project name

MECHANICAL PLAN checked MRS



approved

SCOPE OF WORK:

- 1. INCLUDE PROVIDING SUPERVISION, LABOR, SUPPLIES, MATERIALS (TO INCLUDE EQUIPMENT), TOOLS, SERVICES, DOCUMENTATION, TESTS & DEMONSTRATIONS, CERTIFICATES, AND DOLLAR COSTS REQUIRED TO CONSTRUCT THE COMPLETE SYSTEMS AS SPECIFIED AND SHOWN BY THE PLANS. THE MAJOR ITEMS OF THE WORK ARE:
- A. HEATING, VENTILATION & AIR CONDITIONING (HVAC) SYSTEM.
- SPECIAL SYSTEMS AS INDICATED. SERVICES AND SUPPORT WORK. INCLUDING TRANSPORTATION. MATERIALS HANDLING, INSPECTING, STORAGE, GUARDING,
- SCAFFOLDING, HOISTING, ETC. SALES TAX, PERMITS, INSPECTION FEES, APPROVALS, LICENSES,
- REGISTRATIONS, AND CERTIFICATES
- COORDINATION, NOTIFICATION, INSPECTIONS, FIELD SURVEYS OF THE JOB SITE, AND REPORTS.
- TESTS AND DEMONSTRATIONS.
- SUBMITTALS, INCLUDING SHOP DRAWINGS. H. REPLACEMENT OF DEFECTIVE WORK.

- 1. FURNISH NEW MATERIALS, A MANUFACTURER'S STANDARD AND ESTABLISHED PRODUCT LINE, LISTED AND LABELED FOR THE APPLICATION BY UNDERWRITER'S LABORATORIES (U.L.). OR CERTIFIED BY OTHER APPROVED LABORATORY OR BY THE BUILDING OFFICIAL HAVING JURISDICTION.
- PLANS ARE GENERALLY DIAGRAMMATIC AND DO NOT SHOW ALL DETAILS REQUIRED FOR THE COMPLETE WORK. ESTABLISH DETAILS OF THE WORK AS NECESSARY TO PROVIDE FOR THE COMPLETE INSTALLATION OF SYSTEMS AND MATERIALS. ARRANGE THE WORK SO AS TO AVOID INTERFERENCE WITH OTHER BUILDING COMPONENTS OR SYSTEMS AS ACTUALLY INSTALLED. LAY OUT THE WORK AND BE RESPONSIBLE FOR LOCATIONS, LEVELS, GRADES, AND ARCHITECTURAL OR STRUCTURAL FEATURES SUCH AS BEAMS, FIRE BARRIERS, CEILING TYPES AND HEIGHTS, SLAB OR WALL THICKNESS, CABINET HEIGHTS, OR DOOR SWINGS. DO NOT SCALE THE PLANS FOR ANY DIMENSION. VERIFY DIMENSIONS BEFORE STARTING WORK AND REPORT ANY DISCREPANCY OR INTERFERENCE TO THE OWNER'S REPRESENTATIVE FOR CLARIFICATION.
- PROVIDE A QUALIFIED TRADESMAN TO DEVELOP DETAILS OF THE WORK FOR EACH SYSTEM. AND IF REQUIRED TO CERTIFY WORK TO BUILDING OFFICIALS. MAKE ANY REQUEST FOR ASSISTANCE FROM THE ENGINEER IN DEVELOPING ANY DETAIL OF THE WORK, BY WRITING AND IN A TIMELY MANNER.
- INFORMATION SHOWN FOR MOTORS OR EQUIPMENT IS BASED UPON AVAILABLE INFORMATION: CHECK EQUIPMENT NAMEPLATE RATINGS AND MAKE FINAL INSTALLATION PER NAMEPLATE RATINGS.
- MANUFACTURER'S NAMES AND CATALOG NUMBERS INDICATES MATERIALS ACCEPTED BY THE ENGINEER. SUBMIT SUBSTITUTES OF EQUIVALENT MATERIALS OF SIMILAR QUALITY, THE SAME OR BETTER WITH RESPECT TO STYLE AND FUNCTION. FOR REVIEW AND ACCEPTANCE. STATE PROPOSED EXCEPTIONS TO REQUIREMENTS CLEARLY IN ONE PLACE INCLUDING REQUIRED RELATED CHANGES TO BUILDING SYSTEMS, OPERATING PROCEDURES, AND MAINTENANCE FUNCTIONS.
- COORDINATE ANY CHANGES TO ELECTRICAL, STRUCTURAL, AND MECHANICAL SYSTEMS REQUIRED BY USE OF EQUIPMENT OTHER THAN "BASIS OF DESIGN". SUBMIT SHOP DRAWINGS INDICATING REQUIRED
- SUBMIT SHOP DRAWINGS AND PRODUCT INFORMATION FOR REVIEW FOR MATERIALS AS LISTED, AND FOR ANY SUBSTITUTE MATERIAL.
- FURNISH THREE (3) SETS OF OPERATING AND MAINTENANCE MANUALS FOR MAJOR MATERIALS, AND FOR SPECIAL SYSTEMS MATERIALS.
- FURNISH ONE EACH OF ANY SPECIAL TOOL NECESSARY FOR THE INSPECTION, OPERATION, OR MAINTENANCE OF EQUIPMENT.
- 10. COMPLY WITH APPLICABLE OR NECESSARY JOB SAFETY PROVISIONS.
- 11. RECORD ON ONE SET OF PLANS CHANGES AND DEVIATIONS FROM THE CONTRACT PLANS. RECORD FINAL LOCATION OF EQUIPMENT, AIR DIFFUSERS, DUCTWORK, CONTROLS, BURIED PIPING, ETC. MAKE SUFFICIENT MEASUREMENTS TO LOCATE MAJOR PIPING AND SHOW SAME ON RECORD PLANS AS-BUILT CONDITIONS. TRANSFER CHANGES AND DEVIATIONS TO REPRODUCIBLE "SEPIA" PLANS AND DELIVER TO OWNER'S REPRESENTATIVE.
- 12. LEAVE SYSTEMS OR ELEMENTS INSTALLED IN PROPER WORKING ORDER, AND REPLACE WORK OR MATERIAL WHICH DEVELOPS DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

- WORK SHALL BE FURNISHED AND INSTALLED AS A MINIMUM IN ACCORDANCE WITH THE SPECIFICATIONS AND PLANS OR AS DIRECTED BY THE LOCAL INSPECTORS AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES OR REQUIREMENTS OF THE LOCAL BUILDING OFFICIALS.
- DO NOT REDUCE QUALITY AND FUNCTIONAL REQUIREMENTS, INCLUDING SPARE CAPACITY AND OPTIONS FOR FUTURE USAGE, EVEN IF THEY MEET MINIMUM REQUIREMENTS OF APPLICABLE CODES.

MECHANICAL MATERIALS & METHODS

DUCTWORK:

- 1. GALVANIZED STEEL IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS, 1976 EDITION; CONSTRUCTED FOR A 1" MINIMUM STATIC PRESSURE RATING.
- 2. ELBOWS; SQUARE TYPE WITH TURNING VANES.
- BRANCH TAKE-OFF FROM MAIN DUCTS; SPLITTER DAMPERS OR EXTERNALLY ADJUSTABLE EXTRACTORS.
- 4. FLEXIBLE DUCTWORK: INSULATED WITH 2" THICK FIBERGLASS WITH A VAPOR BARRIER; FLAME SPREAD RATING NOT OVER 25 AND DEVELOPED SMOKE RATING NOT OVER 50. CONNECT WITH CIRCUMFERENTIAL COMPRESSION CLAMPS OF STAINLESS STEEL OR NYLON.
- 5. SPIN-IN FITTINGS; MANUFACTURED ROUND GALVANIZED COLLAR DESIGNED TO SCREW INTO A MATING HOLE, WITH AN AIR EXTRACTOR AND MANUAL BALANCING DAMPER. THERMAFLEX, WIREMOLD, CLEVAFLEX.

INSULATION:

- INSULATION, INCLUDING FACING, JACKETS, AND ADHESIVE USED TO ADHERE THE FACING OR JACKET; NOT EXCEEDING A FLAME SPREAD OF 25, NOR A SMOKE DEVELOPED RATING OF 50AS, TESTED IN ACCORDANCE WITH ASTM E84 AND UL LISTED.
- SUPPLY/RETURN DUCTWORK: SHALL BE FIBEROUSGLASS DUCTBOARD, 1" THICK, JOINTS SHALL BE SEALED WITH APPROVED DUCT TAPING AS REQUIRED.
- 3. REFRIGERANT PIPING AND CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH APPROVED CLOSED CELL INSULATION AS REQUIRED BY LOCAL CODES.

AIR DISTRIBUTION:

- AIR DISTRIBUTION DEVICES; AMCA CERTIFIED PERFORMANCE RATINGS, NOISE LEVELS NOT TO EXCEED NC-35. STEEL ITEMS SHALL BE FINISHED WITH FACTORY APPLIED WHITE BAKED ENAMEL. CARNES, TITUS, TUTTLE & BAILEY, KRUGER, ANEMOSTAT.
- HVAC EQUIPMENT: (SPLIT-SYSTEM HEAT PUMP) AIR HANDLING UNIT: FAN, ELECTRIC HEATING COIL, THROW-AWAY FILTERS. BLOWER; CENTRIFUGAL TYPE, STATICALLY AND DYNAMICALLY BALANCED. MOTOR; MULTI-SPEED, WITH FACTORY LUBRICATED BEARINGS, ELECTRICAL CHARACTERISTICS AS SHOWN ON THE DRAWINGS. FURNISH INTERLOCK RELAY FOR ELECTRIC HEATER.
- DIRECT EXPANSION COOLING COILS: ALUMINUM PLATES MECHANICALLY BONDED TO NON-FERROUS TUBING WITH ALL JOINTS BRAZED, FACTORY INSTALLED REFRIGERANT METERING DEVICES AND MECHANICAL REFRIGERANT LINE FITTINGS. AN INSULATED STEEL CASING, AND A CONDENSATE DRAIN PAN.
- CONDENSING UNITS; AIR COOLED, COMPLETE WITH REFRIGERANT AND OIL CHARGE, BRASS SERVICE VALVES WITH FITTINGS AND GAGE PORTS. COMPRESSOR; HERMETIC OR SEMI-HERMETIC TYPE. CONDENSER COIL; ALUMINUM PLATES MECHANICALLY BONDED TO NON-FERROUS TUBING. CONDENSER FAN; PROPELLER TYPE DIRECT DRIVE ARRANGED FOR VERTICAL DISCHARGE. FAN MOTOR; FACTORY LUBRICATED, WITH OVERLOAD PROTECTION. CONTROLS: FACTORY WIRED AND SHALL INCLUDE THERMAL AND OVER-CURRENT PROTECTION DEVICES FOR THE COMPRESSOR, A POSITIVE ACTING 5 MINUTE TIMER TO PREVENT COMPRESSOR SHORT CYCLING, CRANKCASE HEATER, HIGH AND LOW PRESSURE SWITCHES, FILTER- DRYER, AND LIQUID LINE SIGHT GLASS. COMPRESSOR SHALL HAVE 5 YEAR WARRANTY.

- 1. THERMOSTATS: ELECTRONIC: ONE STAGE COOLING AND ONE STAGE HEATING. ELECTRIC HEATING; ACTIVATED ONLY BY THE SECOND STAGE OF HEATING IF PERMITTED BY AN OUTDOOR AIR THERMOSTAT SET AT 40oF, AND DURING THE DEFROST CYCLE. THERMOSTATS SHALL INCLUDE THE ABILITY TO ADJUST TEMPERATURE SETPOINT ON THE BASIS OF TIME OF DAY, FOR A MINIMUM OF THREE TIMES PER DAY. PROVIDE BATTERY BACK-UP, LOCKING COVER. COMFORT-ZONE, JOHNSON
- 2. HEATING AND AIR-CONDITIONING OPERATING AND SAFETY CONTROLS; FURNISHED BY THE EQUIPMENT MANUFACTURER AS SPECIFIED ABOVE.

CONDENSER PIPING:

1. REFRIGERANT PIPING; AS SHORT AS POSSIBLE, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. TUBING PACKAGES AS SUPPLIED BY THE MANUFACTURER; USED IF SUITABLE. REFRIGERANT PIPING; TYPE "L" HARD DRAWN COPPER TUBING WITH SWEAT TYPE WROUGHT COPPER FITTINGS. REFRIGERANT SUCTION LINES; INSULATED AS SPECIFIED HEREIN.

CONDENSER PIPING INSTALLATION:

RUN CONCEALED IN CHASES, CEILING, OR WALL CONSTRUCTION UNLESS OTHERWISE INDICATED. PROVIDE ALL NECESSARY LOOPS. HANGERS. ANCHORS, OFFSETS, ETC., REQUIRED FOR PROPER SUPPORT AND CONTROL OF EXPANSION AND CONTRACTION OF PIPING.

TEST, ADJUST AND BALANCE:

- (TO BE PREFORMED BY A CERTIFIED INDEPENDANT TEST AND BAL-
- OPERATE, BALANCE AND ADJUST SYSTEMS AND EQUIPMENT. PERFORM TEST, ADJUST AND BALANCE WHEN OUTSIDE CONDITIONS APPROXIMATE DESIGN CONDITIONS FOR HEATING AND COOLING FUNCTIONS.
- PROVIDE ALL INSTRUMENTS, EQUIPMENT, MATERIALS AND RECORDING DEVICES NECESSARY FOR TESTS AND ADJUSTMENTS.
- 3. DUCTS, PLENUMS AND CASINGS; TESTED AND MADE AIRTIGHT. BEARINGS; LUBRICATED AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. FAN SPEEDS: ADJUSTED TO PROVIDE THE AIR QUANTITIES INDICATED ON THE DRAWINGS WITHIN THE LIMITS OF THE EQUIPMENT INSTALLED.

- 4. TEST, BALANCE, ADJUST AND TABULATE THE AIR QUANTITIES OF ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTS AND AIR TERMINAL DEVICES WITHIN 10% OF INDICATED VALUES. ADJUST FLOW PATTERNS FROM AIR TERMINAL UNITS TO MINIMIZE DRAFTS AS EQUIPMENT
- 5. RECORD RATED AND RUNNING AMPERAGE FOR EACH MOTOR. RECORDS OF READINGS, CALCULATIONS AND ADJUSTMENTS; SUBMITTED TO THE
- 6. AFTER BUILDING IS OCCUPIED SEND QUALIFIED PERSONNEL TO THE BUILDING NOT LESS THAN ONE DAY DURING SUMMER AND ONE DAY DURING WINTER TO OBSERVE OPERATION OF EQUIPMENT AND TEMPERATURES IN THE CONDITIONED SPACES, AND TO PERFORM FOR PROPER OPERATION, AND ADJUST TO SETTING SUITABLE FOR
- 7. CONTRACTOR SHALL PROVIDE THE ARCHITECT AND ENGINEER WITH A CERTIFIED COPY OF THE FINAL TEST AND BALANCE REPORT.

CONCENTRIC FLUE UP THRU ROOF -

GAS LINE

CAS COCK

6" DIRT LEG

- GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON
- ALL GAS PIPING SHALL BE CONTININUOUSLY YELLOW IDENTIFIED WITH BLACK LETTERS ON A YELLOW BACKGROUND, INCLUDE DIRECTION OF FLOW.

- ARCHITECT. PROVIDE FIVE (5) COPIES PRIOR TO FINAL INSPECTION.
- ADDITIONAL BALANCING AND ADJUSTMENTS. CHECK CONTROL EQUIPMENT

- FITTINGS WELDED JOINTS IN CONCEALED SPACES.
- GAS PIPING SHALL BE PRESSURE TESTED PER CHAPTER 4 OF THE INTERNATIONAL

- HEAT PUMP SPLIT SYSTEM A/C UNIT SCHEDULE FURNACE HEAT PUMP MODEL NO. COOLING CAPACITY (MIN.) POWER POWER HEATING WARK E.S.P. EVAP COIL TOTAL SENSIBLE EAT LAT VOLTS PH 42.0 33.3 80/67 55/54 | 208 | 3 | CARRIER | 59SP2A060E17-14 | 25HCC542A003 | CAPVU4821ALA | *** FURN-1 | 1160 | 300 | .5 120
- CONDENSING UNIT ACCESSORIES A. TIMED-OFF CONTROL
- B. LOW AMBIENT KIT C. PREFABRICATED PAD.
- FURNACE ACCESSORIES A. FLUE THRU ROOF WITH VENT CAP
- B. CONDENSATE DRAIN HEAT CABLE KIT TO EXTERIOR C. PROGRAMABLE THERMOSTAT

CONNECTOR

— COOLING COIL

FURNACE

- FILTER

—— LIQUID LINE

3" MIN. TRAP

— SUCTION LINE

CONDENSATE DRAIN W/

EVAPO	RATIVE	UNIT	ACCES	Sorie
A.	EXPAN	SION	VALVE	

	EXHAUST FAN SCHEDULE									
FAN NO.	FAN NO. SERVICE MANUF. & MODEL CFM WATTS S.P. VOLTS - PH									
TEF-1	TOILETS	PENN ZT	75	49	0.25"	120 – 1ø	****			

 WALL CAP 2. CIRCUIT WITH LIGHTS

DIFFUSER SCHEDULE MARK — 8"Ø — NECK 150 — CFM									
MARK	MARK TYPE FACE BASIS OF DESIGN								
А	SUPPLY	2 x 2	TITUS	TMS					
В	SUPPLY	1 x 1	TITUS	TMS					
С	SIDEWALL	18 x 6	TITUS	SIMILIAR TO 350					
D	RETURN	AS SHOWN	TITUS	50F					

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- 1. DIFFUSER FRAME TYPES SHALL BE COMPATIBLE WITH ARCHITECTURAL CEILING TYPES IN WHICH IT IS INSTALLED.
- 2. TYPE "C" DIFFUSERS TO BE STAINLESS STEEL WITH 3 WAY BLOW SEE DRAWING

FAN POWERED GAS UNIT HEATER										
MARK	TYPE	BTUH	CFM	GAS CONN.	WEIGHT	VOLTS/PH	MOTOR	BASIS OF DESIGN		
UH-1	GAS	60	808	.5"	80 LBS.	115V/1PH	1/4 HP	MODINE HDC-60 SEPERATED COM- BUSTION UNIT.		

1. SUSPEND BELOW CEILING AS NOTED ON THE DRAWING FROM THE STRUCTURE ABOVE FROM THE BOTTOM CORD OF THE STRUCTURAL BEAM AS REQUIRED.

approved

- CONDENSATE DRAIN W/ 3" MIN. TRAP RETURN AIR Plenum AUXILIARY COND. PAN WITH "OVER-FLOW" SWITCH

VERTICAL GAS FURNACE DETAIL

usbnsl bashair

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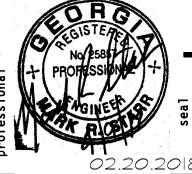
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XTREME CLEAN AUTO / PA WHITE JULFUR ROAD, GAINE VILLE GA

project name 9

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drawn KAH

MECHANICAL SPECIFICATIONS, NOTES title **AND DETAILS**

checked MRS



	LIGHTING FIXTURE SCHEDULE										
TYPE	FIXTURE DESCRIPTION	MOUNTING	VOLTS	INPUT WATTS	LAMPS	MANUFACTURER	REMARKS				
AZ	2'X4' TROFFER, VOLUMETRIC HOUSING, EXTRUDED ACRYLIC CURVED SMOOTH DIFFUSER, STATIC HOUSING, 0-10V LED DIMMING DRIVER, 6' PRE-WIRE FIXTURE WHIP, DAMP LOCATION LISTED	RECESS GRID	120/ 277	30	90CRI 3000L 4000K	LITHONIA #2BLT4-30L-ADSM-MVOLT-EZ1-LP940					
B2	2'X2' TROFFER, VOLUMETRIC HOUSING, EXTRUDED ACRYLIC CURVED SMOOTH DIFFUSER, STATIC HOUSING, 0-10V LED DIMMING DRIVER, 6' PRE-WIRE FIXTURE WHIP, DAMP LOCATION LISTED	RECESS GRID	120/ 277	30	90CRI 3000L 4000K	LITHONIA #2BLT2-33L-ADSM-MVOLT-EZ1-LP940					
C4	4' STRIP, WHITE STEEL CHANNEL HOUSING, LED DRIVER, DROPPED ACRYLIC DIFFUSER, DAMP LOCATION LISTED	Surface Ceiling	120	42	90CRI 5000L 4000K	LITHONIA #ZL1N-L48-5000LM-L/LENS-MVOLT-40K -80CRI-WH					
D	6" DIA. DOWNLIGHT, 0-10V LED DIMMING, 50,000 HR OPERATION, SEMI SPECULAR DIFFUSER, DAMP LOCATION LISTED. NON-IC RATED HOUSING, WHITE PAINTED FLANGE,	RECESS CEILING	120	10.5	90CRI 1500L 4000K	LITHONIA #LDN6-40K-15L-L06WR-LSS-MVOLT- EZ10-TRW					
L	CANOPY LIGHT, DIRECT SPRAY WET LOCATION LISTED, SYMMETRICAL LIGHT DISTRIBUTION, CLASS 1, DIV 2 RATED	RECESS CEILING	120	140	80CRI 18,000L	LSI - Legacy CRU LED					
SC	INVUE ENTRI ROUND REVEAL, LED LIGHTBARS, ELECTRONIC, TYPE III W/BACK LIGHT CONTROL, BRONZE, UPLIGHT GLOW.	SURFACE WALL	120	47	80CRI 5405L	COOPER LIGHTING ENV-E02-LED-120-BL3-BZ-ULG-LCF					
	EMERGENCY EGRESS LIGHT, 90-MIN. BATTERY BACK-UP, 2-HEADS, WHITE THERMOPLASTIC HOUSING	SURFACE WALL	120	15	WITH UNIT	LITHONIA #ELM6 LED-W-LP03VS					
	EMERGENCY EGRESS LIGHT, 90-MIN. BATTERY BACK-UP, 2-HEADS, GREY THERMOPLASTIC HOUSING, WEATHER-PROOF HOUSING	SURFACE WALL	120	15	WITH UNIT	LITHONIA, #WLTU-MR					
XEM	COMBINATION EXIT/EMERGENCY EGRESS LIGHT, SINGLE FACED, (2) ADJUSTABLE LED HEADS, 90-MIN BATTERY BACK-UP, SELF DIAGNOSTICS, WHITE THERMOPLASTIC HOUSING, RED LETTERING, DIRECTIONAL CHECKONS AS INDICATED ON PLANS	SURFACE WALL/ CEILING	120/ 277	5	WITH UNIT	LITHONIA #LHQM-LED-R-SD					

1. SPECIFIED LIGHT FIXTURES SHALL BE USED AS A BASIS OF DESIGN. OWNER SHALL APPROVE EXACT LIGHTING FIXTURE PACKAGE PRIOR TO BID SUBMITTAL.

1 ELECTRICAL LIGHTING PLAN
SCALE: 3/16" = 1'-0"

KEYNOTES: 🕸

- 1. COORDINATE MOUNTING OF FIXTURE WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
- 2. WALL MOUNTED PHOTOCELL. EXTERIOR WALL MOUNTED LIGHTING FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL.

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18-19

ELECTRICAL LIGHTING PLAN

checked MRS

1 ELECTRICAL POWER PLAN
SCALE: 3/16" = 1'-0"

KEYNOTES: 🕸

- 1. REFER TO "MECHANICAL-ELECTRICAL EQUIPMENT CONNECTION SCHEDULE" FOR PROTECTIVE DEVICE, FEEDER AND RACEWAY REQUIREMENTS OF UNIT. VERIFY WITH MECHANICAL CONTRACTOR EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
- 2. PROVIDE ELECTRICAL CONNECTION TO WATER HEATER.
- 3. ROUTE (1) 4" PVC FROM BACKBOARD OUT TO TELEPHONE DEMARC COORDINATE EXACT SITE TERMINATION WITH UTILITY SERVICE PROVIDER.

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- 4. PROVIDE ELECTRICAL INTEGRAL SERVICE DISCONNECT OF UNIT. FIELD CONFIRM WITH MANUFACTURERS INSTALLATION MANUAL.
- 5. VENDOR PROVIDED EQUIPMENT; COORDINATE WITH VENDOR DRAWING SUBMITTALS FOR EXACT ELECTRICAL REQUIREMENTS AND TERMINATION TO EQUIPMENT.

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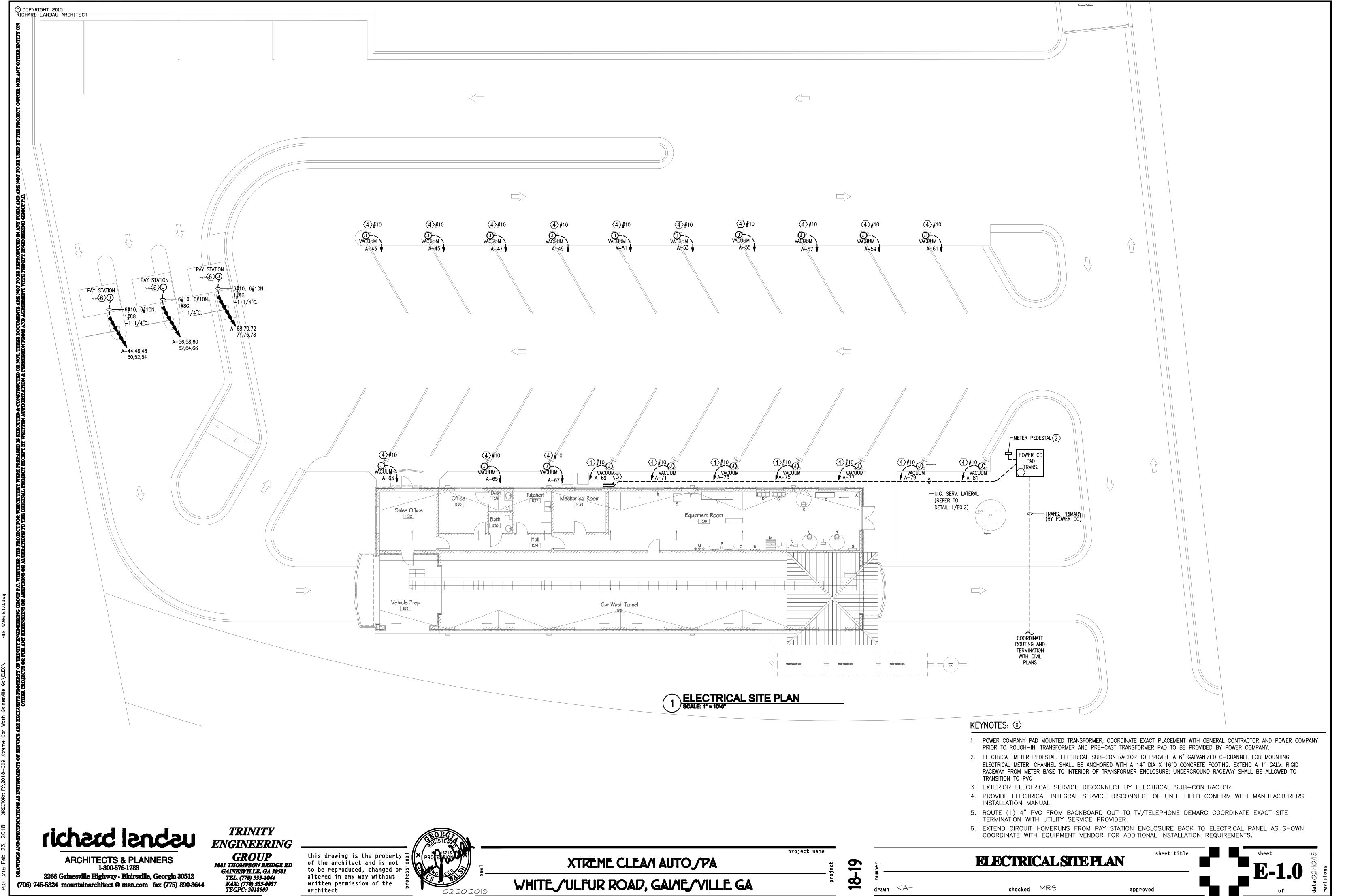
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project name XTREME CLEAN AUTO JPA WHITE JULFUR ROAD, GAINE VILLE GA

ELECTRICAL POWER PLAN checked MRS

18-19



WHITE JULFUR ROAD, GAINE VILLE GA

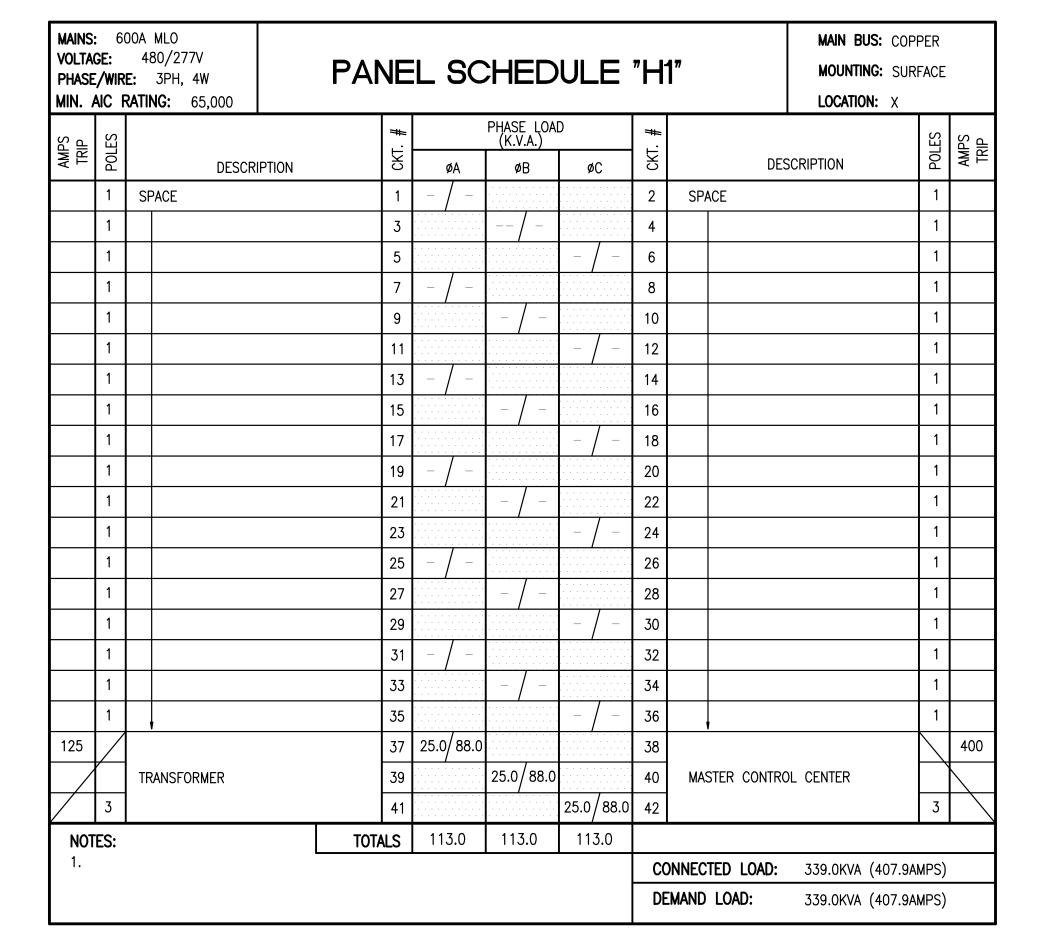
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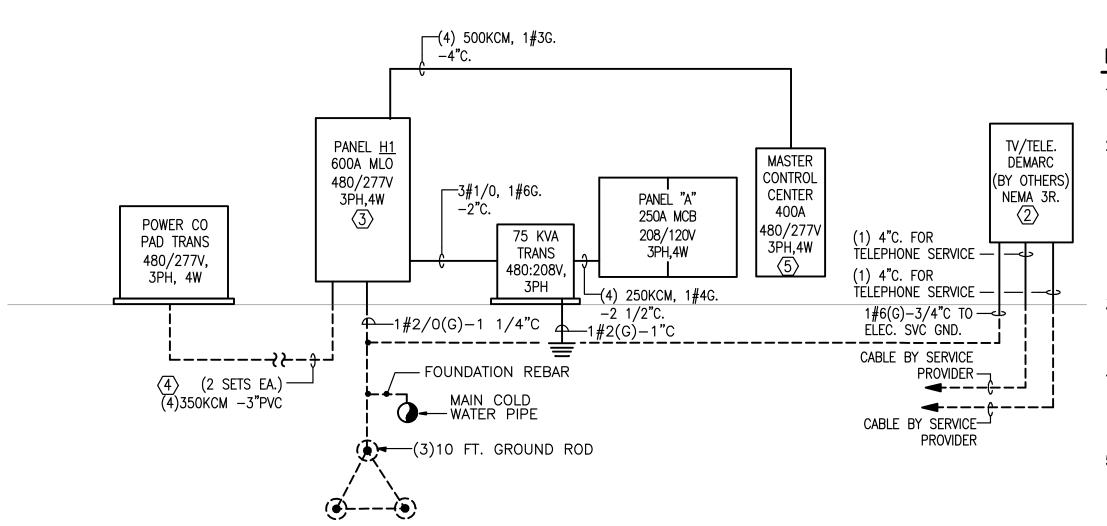
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MAINS: 250A MCB VOLTAGE: 208/120V PHASE/WIRE: 3PH,4W PANEL SCHEDULE "A" MAIN BUS: COPE MOUNTING: SURF												
	•	RATING: 22,000	• •					, ,		LOCATION: X		
AMPS TRIP	POLES		CKT. #		PHASE LOAD (K.V.A.) ØA ØB ØC			250	ODIDTION	POLES	AMPS TRIP	
		DESCRI	+	ØA	ØΒ	ØC			DESCRIPTION			
20	1	RECEPTOFFICE/S/	1 3	1.6 / 1.3			2	LIGHTS				
20	1	RECEPTTOILET				0.4 / 1.0	1	4	LIGHTS			20
20	1	RECEPTKITCHEN/	HALLWAY ————————————————————————————————————	5			0.6 / 0.4	6	LIGHTS- EXTERIO	LIGHTS- EXTERIOR		
20	1	RECEPTKITCHEN			0.2 / -			8	SPARE	SPARE		
20	1	RECEPTKITCHEN	9		0.2 / -		10	SPARE			20	
20	1	RECEPTREF.	11			1.5 / –	12	SPARE			20	
20	1	RECEPTMECHANIC	13	0.6 / -			14	SPARE		1	20	
20	1	TANKLESS WATER H	15		_ / _		16	SPARE		1	20	
20	1	SPARE		17			- / -	18	SPARE		1	20
20	1	RECEPTEQUIPMEN	19	1.2 / -			20	SPARE		1	20	
20	1	SPARE	21		- / -		22	SPARE		1	20	
20	1	SPARE		23			- / -	24	SPARE		1	20
20	1	SPARE		25	- / -			26	SPARE		1	20
20	1	SPARE		27		- / -		28	SPARE		1	20
20	1	SPARE		29			- / -	30	SPARE		1	20
20	1	SPARE		31	- / -			32	SPARE		1	20
20	1	SPARE		33		- / 1.4		34	UH-1 CONTROLS		1	20
20	1	SPARE		35			- / 0.9	36	FURN-1		1	20
20	1	SPARE	37	- / 2.5			38				40	
20	1	SPARE	39	, , , , , , , , , , , , , , , , , , ,	- / 2.5		40	HP-1		2		
20	1	SPARE		41		<u> </u>	-/-	42	SPARE		1	20
NOT	ES:		TO [*]	TALS	7.4	5.5	3.4					
		THRU LUGS							ONNECTED LOAD:	REFER TO SECTION		

MAINS VOLTA PHASE MIN.	GE: E/WIR	50A MCB 208/120V E: 3PH,4W RATING: 22,000	PANE	EL SC	CHED	ULE	"A	π	MAIN BUS: COP MOUNTING: SUR LOCATION: X			
\ \ \ \ \ \ \ \	ES		#		PHASE LOAI (K.V.A.)	D	# :			POLES	AMPS TRIP	
AMPS TRIP	POLES	DESCRIPTION	CKT	ØΑ	øΒ	øС	CKT	DES	CRIPTION	POI	AM	
30	1	VACUUM	43	2.0 / 1.5			44	PAY STATION		1	20	
30	1	VACUUM	45		2.0 / 1.5		46	PAY STATION		1	20	
30	1	VACUUM	47			2.0 / 1.5	48	PAY STATION		1	20	
30	1	VACUUM	49	2.0 / 1.5			50	PAY STATION		1	20	
30	1	VACUUM	51		2.0 / 1.5		52	PAY STATION		1	20	
30	1	VACUUM	53			2.0 / 1.5	54	PAY STATION		1	20	
30	1	VACUUM	55	2.0 / 1.5			56	PAY STATION		1	20	
30	1	VACUUM	57		2.0 / 1.5		58	PAY STATION		1	20	
30	1	VACUUM	59			2.0 / 1.5	60	PAY STATION		1	20	
30	1	VACUUM	61	2.0 / 1.5			62	PAY STATION		1	20	
30	1	VACUUM	63		2.0 / 1.5		64	PAY STATION		1	20	
30	1	VACUUM	65			2.0 / 1.5	66	PAY STATION		1	20	
30	1	VACUUM	67	2.0 / 1.5			68	PAY STATION		1	20	
30	1	VACUUM	69		2.0 / 1.5		70	PAY STATION		1	20	
30	1	VACUUM	71			2.0 / 1.5	72	PAY STATION		1	20	
30	1	VACUUM	73	2.0 / 1.5			74	PAY STATION		1	20	
30	1	VACUUM	75		2.0 / 1.5		76	PAY STATION		1	20	
30	1	VACUUM	77			2.0 / 1.5	78	PAY STATION		1	20	
30	1	VACUUM	79	2.0			80	SPACE		1		
30	1	VACUUM	81		2.0		82	SPACE		1		
20	1	SPARE	83	· · · · · · · · · · · · · · · · · · ·			84	SPACE		1		
	NOTES: SECTION 1 16.4 14.5 12.4											
1.			SECTION 2	14.0	14.0	12.0	CO	NNECTED LOAD:): 83.3KVA (156.4 AMPS)			
DEMAND LOAD:										MPS)		



ELECTRICAL RISER

KEYNOTES (RISER): X

- 1. COORDINATE EXACT DIMENSIONAL REQUIREMENTS OF THE METER/DISCONNECT ENCLOSURE WITH THE OWNER PRIOR TO ROUGH-IN.
- 2. PROVIDE A WEATHER PROOF METAL ENCLOSURE FOR INSTALLATION OF TELEPHONE AND CATV DEMARC (BY LOCAL SERVICE PROVIDER). ENCLOSURE SHALL BE PROVIDED WITH A GASKETED HINGED DOOR WITH A LOCKING HANDLE. EXTEND A PVC RACEWAY FROM THE ENCLOSURE TO THE SERVICE PROVIDER PEDESTAL/UTILITY POLE. SEAL ENDS OF RACEWAY TO PREVENT DEBRIS FROM ENTERING THE RACEWAY. ENCLOSURE SHALL BE PROVIDED WITH A 4'X4'X3/4" PLYWOOD BACKBOARD PAINTED WITH GREY FIRE RETARDANT PAIŃT.
- NEW TENANT METER/SERVICE DISCONNECT ENCLOSURE. REFER TO POWER PLAN FOR PROPOSED LOCATION OF THE METER/DISCONNECT. PANEL SHALL BE SURFACE MOUNTED ON THE EXTERIOR WALL.
- UNDERGROUND SERVICE LATERAL TO PAD MOUNTED TRANSFORMER. ELECTRICAL SUB-CONTRACTOR TO INSTALL RACEWAY (AS REQUIRED) WITH A PULL CORD FROM METER TO TRANSFORMER LOCATION. POWER COMPANY SHALL INSTALL CONDUCTORS FROM TRANSFORMER TO METER.
- CONTROL PANEL TO BE PROVIDED BY OWNER, ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE ELECTRICAL FEEDER TO LOAD LUGS OF PANEL. FIELD COORDINATE EXACT PLACEMENT OF ENCLOSURE WITH THE OWNER PRIOR TO ROUGH-IN.

SERVI(CE LOAD	(SUN	//\	1ARY	
MAINS: 600A	VOLTAGE: 480/277		PHASE:	3	WIRE: 4	
LOAD TYPE	CONNECTED LOAD (KVA)		DIVERSITY FACTOR		DEMAND LOAD (KVA)	
LIGHTING	2.7		1.25		3.4	
RECEPTACLES	34.6		NEC		22.3	
HVAC	7.3		1.0		7.3	
COOKING	N/A				N/A	
ELEVATOR	N/A				N/A	
MISCELLANEOUS	264.0		1.0		264.0	
TOTAL LOAD	308.6 KVA			5,	97.0 KVA	
TOTAL AMPERAGE	371.4 AMPS			35	57.4 AMPS	

ELECTRICAL-MECHANICAL EQUIPMENT SCHEDULE											
DEVICE	VOLTAGE	HP	HEAT KW	FLA	MCA	MOCP	CKT. #	LOAD (KVA)	FEEDERS	DISCONNECT	NOTES
FURN-1	120/1	1.0	N/A	7.1	8.8	20	SEE PANEL SCHEDULE	0.9	2#12, 1#12G1/2°C.	MOT SQ.	
HP-1	208/1			23.3	27.6	40		4.9	3#8, 1#10G. −3/4°C.	60/2/F40A/WP	
NOTES:											

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SCALE: NO SCALE

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XTREME CLEAN AUTO JPA

WHITE JULFUR ROAD, GAINE VILLE GA

project name

ELECTRICAL RISER AND SCHEDULES

sheet title

approved

18-19

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ELECTRICAL MATERIALS & METHODS:

INSTRUCTION TO BIDDERS:

CONTRACTOR SHALL BASE HIS PROPOSAL FOR HIS WORK ONLY AFTER VISITING THE JOBSITE FOR ACTUAL JOB CONDITIONS WHICH MAY AFFECT WORK COVERED BY THESE SPECIFICATIONS.

SUBMITTALS:

- SUBMIT SHOP DRAWINGS & PRODUCT INFORMATION FOR THE FOLLOWING: * PROTECTIVE DEVICES
- * LIGHTING FIXTURES AND LAMPS * WIRING DEVICES AND COVER PLATES

DISTRIBUTION EQUIPMENT:

- DISTRIBUTION EQUIPMENT; RATED FOR 240 OR 600 VAC, 60 HZ, FAULT CURRENT INTERRUPTING CAPACITY AS INDICATED, IN AMPERES, RMS, SYMMETRICAL, BUT NOT LESS THAN 22,000 AMPS, WITH SOLID NEUTRAL GROUND (S/N); GENERAL ELECTRIC (G.E.), WESTINGHOUSE, SQUARE-D, SIEMENS-ALLIS ITE PRODUCTS, CUTLER HAMMER.
- DISTRIBUTION EQUIPMENT USING CIRCUIT BREAKER TYPE PROTECTIVE DEVICES; BOLTED-ON OR 'SQUARE D' I-LINE DEVICES.
- PANELBOARDS; FACTORY ASSEMBLED, MINIMUM WIDTH OF 20 INCHES, A MINIMUM DEPTH OF 5-3/4 INCHES, AND MINIMUM MAINS RATED 100 AMPERES, WITH POLE 'SPACES'; BUSSED AND READY FOR INSTALLATION OF PROTECTIVE DEVICES. CABINETS; FULL SIZED SINGLE DOORS WITH CHROMIUM PLATED COMBINATION CYLINDER LOCK AND CATCH AND TWO KEYS. "GENERAL ELECTRIC" OR EQUAL: TYPE "NLAB" W/ Q-LINE BRANCH CIRCUIT BREAKERS: TYPE "NHB" WITH E-FRAME BREAKERS.
- PANELBOARD MAINS; COPPER WITH BRANCH CONNECTIONS IN VERTICALLY DISTRIBUTED CONSECUTIVE PHASE SEQUENCE SUCH THAT ONE OR MULTIPLE POLE BREAKERS CAN BE MOUNTED IN ANY POSITION. SOLID NEUTRAL BUS; WITH A FEEDER LUG AND WITH A SEPARATE SET-SCREW TERMINAL FOR EACH BRANCH CIRCUIT POLE.
- PANELBOARD MOUNTING; TOP OF ENCLOSURE 78 INCHES ABOVE THE FINISHED FLOOR/GRADE, WITH THE BOTTOM OF THE CABINET NOT CLOSER THAN 6 INCHES TO THE FLOOR/GRADE, PROPERLY ALIGNED AND SUPPORTED INDEPENDENTLY OF THE CONNECTING RACEWAYS. COMPLETE INSIDE CIRCUIT DIRECTORY CARD USING A TYPEWRITER.
- DISCONNECT SWITCHES: 'HEAVY-DUTY' RATED WITH QUICK-MAKE AND QUICK-BREAK MECHANISMS. PROVIDE GROUND LUGS AND CODE REQUIRED ACCESSORIES. SWITCHES LOCATED OUTSIDE; 'NEMA-3R' ENCLOSED TYPE WITH LOCKING HASP. PROVIDE AN ENCLOSED SWITCH FOR ELECTRICALLY SERVED EQUIPMENT. PROVIDE SWITCHES & FUSES, INCLUDING HEATER ELEMENTS, RATED PER THE CHARACTERISTICS AND NAMEPLATE RATINGS OF EQUIPMENT IN
- ACCORDANCE WITH CODE REQUIREMENTS. MANUFACTURER'S RECOMMENDATIONS AND CHARTS. PROVIDE SWITCHES WITH CODE REQUIRED ACCESSORIES. FUSED SWITCHES IN BRANCH CIRCUITS: NON-RENEWABLE CARTRIDGE FUSES RATED 250 OR 300 VAC OR 600VAC AS FOLLOWS: * SIZES 1 - 200 AMPS: DUAL ELEMENT. CURRENT LIMITING FUSES.

CLASS 'RK-1', OR 'RK-5', SELECTED TO PROVIDE STARTING AND

- LIMIT LET-THRU CURRENT. * OTHER RATINGS, SIZES OR SPECIAL APPLICATIONS AS
- PROVIDE STARTER WITH OVERCURRENT PROTECTION AND DISCONNECTING MEANS WHEN NOT INTEGRALLY PROVIDED WITH THE EQUIPMENT.
- STARTERS AND DISCONNECT SWITCHES; ENCLOSED QUICK-MAKE AND QUICK-BREAK MECHANISMS.
- BRANCH CIRCUIT BREAKERS; MOLDED CASE, AUTOMATIC TRIPPING TYPE, BOLT-ON OR I-LINE CONSTRUCTION, MINIMUM FRAME SIZE OF 100 AMPS AND A MINIMUM TRIP SIZE OF 15 AMPS, CALIBRATED FOR 40°C. PROVIDE SUITABLE TYPE BREAKERS SERVING HIGH INRUSH CIRCUITS FOR INCANDESCENT LIGHTING.
- 10. GROUP SINGLE-POLE BREAKERS USED FOR MULTI-WIRE CIRCUITS CONSECUTIVELY ON THE SAME SIDE OF THE CABINET.
- MULTIWIRE BRANCH CIRCUIT DISCONNECTING MEANS—EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES AS PER (ARTICLE 210.4(B)) OF THE N.E.C.
- MULTIWIRE BRANCH CIRCUIT GROUPING—THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGINATION. AS PER (ARTICLE 210.4(D)) OF THE N.E.C.

CONDUCTORS:

- CONDUCTORS; SOFT DRAWN, ANNEALED COPPER WITH CONDUCTIVITY OF NOT LESS THAN 98 % BY 'ASTM' STANDARDS.
- CONDUCTOR SIZE NUMBERS; AMERICAN WIRE GAUGE (AWG. SYSTEM, STANDARD TRADE SIZES.
- CONDUCTORS; COLOR CODED PER CODE AND UTILITY CO.
- CONDUCTORS;
- * No.12 AWG SIZE AND SMALLER; SOLID. * No.10 AWG SIZE; SOLID
- No.8 AWG SIZE AND LARGER; STRANDED. STRANDED CONDUCTORS; CLASS 'B' OR 'C'.
- CONTROL CIRCUITS; MINIMUM AWG No.14. POWER AND LIGHTING BRANCH CIRCUITS; AWG # 12 FOR GENERAL CIRCUITS NOT REQUIRING DERATING OR SIZE INCREASE TO REDUCE VOLTAGE DROP.
- * CODING AS INDICATED: 120/240 VOLT SYSTEM PHASE A-BLACK PHASE B-RED NEUTRAL-WHITE GROUND-GREEN

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- 5. USE A SPERATE LUG FOR EACH CONDUCTOR WHERE MULTIPLE CONDUCTORS ARE CONNECTED TO THE SAME ELECTRICAL TERMINAL POSITION
- 6. FEEDER CONDUCTORS (TO INCLUDE SUB-FEEDER); UNSPLICED THROUGHOUT THEIR LENGTH.
- BRANCH CIRCUIT CONDUCTORS; UNSPLICED EXCEPT WHERE CIRCUITS ARE SHOWN TO DIVIDE BY THE PLANS.
- GENERAL WIRING CONDUCTORS OPERATING AT 600 VOLTS AND BELOW; RATED 60 HERTZ, 600 VOLTS, WITH 90°C INSULATION AS
- A. FEEDER CONDUCTORS: RATED FOR WET LOCATIONS OF 'THHN', 'THWN'
- BRANCH CONDUCTORS RATED FOR: WET LOCATIONS, OR LOCATIONS LOCATED BELOW GRADE OR ENCASED IN SLAB ON GRADE, OF 'XHHN', 'XHHW-2'.
- * DRY LOCATIONS OF 'XHHN', 'XHHW-2'.
- C. RATED LIGHTING CONDUCTORS FOR CIRCUITS REQUIRING 90°C RATING: 'THHN' OR 'THWN', OR OTHER APPROVED TYPE.
- JOINTS ON CONDUCTORS RATED ABOVE 75°C; TAPED OR MADE-UP WITH MATERIALS HAVING A SUITABLE HIGH TEMPERATURE RATING.

ENCLOSURES AND BOXES:

- 1. EQUIPMENT ENCLOSURES, BOXES, & COVERS; GALVANIZED STEEL, MALLEABLE IRON, GRAY IRON, OR COPPER-FREE ALUMINUM. SCREWS; STAINLESS STEEL; ALUMINUM FOR ALUMINUM BOXES.
- * FLUSH MOUNTED WITH CONCEALED RACEWAYS OR FLUSH MOUNTED
- * SURFACE MOUNTED TYPE IN EQUIPMENT ROOMS, WITH EXPOSED RACEWAYS AND OTHER SURFACE MOUNTED DEVICES.
- BOXES FOR USE WITH GENERAL RACEWAY SYSTEMS: 4 INCHES SQUARE OR OCTAGONAL SIZE, NOT BE LESS THAN 1-1/2 INCHES DEEP, EXCEPT WHERE SHALLOWER BOXES ARE REQUIRED BY STRUCTURAL CONDITIONS. 4 BY 2 INCH BOXES; WHERE ONLY ONE RACEWAY ENTERS AN OUTLET BOX, OR WHERE NEEDED TO MATCH DEVICES AND/OR MOUNTING HARDWARE.

- SWITCHES; STANDARD LINE STYLE, MAINTAINED, 20 AMPS, 120-277 VAC, QUIET OPERATING, FLUSH MOUNTING, BY LEVITON, 'SPEC-MASTER, COMMERCIAL SPEC. GRADE' SERIES, HUBBELL OR ARROW HART.
- 2. RECEPTACLES; STANDARD LINE STYLE, STRAIGHT BLADE, 2-POLE, 3-WIRE GROUNDING TYPE, RATED 125 VAC, 20 AMPS, BY LEVITON, 'SPECMASTER, 'COMM. SPEC. GRADE' SERIES, HUBBELL OR ARROW
- DIMMER SWITCHES; RATED FOR FULL RANGE DIMMING OF 120 VAC LOADS, EITHER FLUORESCENT OR INCANDESCENT, KNOB OR SLIDE CONTROLLED W/ FULL OFF POSITION, FLUSH MOUNTABLE IN STANDARD 1-GANG OR 2-GANG BOXES, ARCHITECTURAL' STYLE, THIN PROFILE TYPES, BY LEVITON, 'COMM. SPEC. GRADE' SERIES, LUTRON OR LITHONIA.
- GROUND FAULT CIRCUIT INTERRUPTED (GFCI) RECEPTACLES; U.L. LISTED FOR PERSONNEL PROTECTION AGAINST LINE-TO- GROUND SHOCK HAZARD. GFCI RECEPTS.; DUPLEX, 'DECORA STYLE' BY LEVITON, 'COMM. SPEC. GRADE', HUBBELL OR ARROW HART.
- 5. KEYLESS LAMPHOLDER: WHITE PORCELAIN, 660 WATTS AT 250 VOLTS; LEVITON, CAT. No. 9875-2.
- 6. COVER PLATES: FOR FLUSH, INSIDE, WALL MOUNTED DEVICES; LEVITON.
- INSTALL WIRING DEVICES WITH TOP-OF-BOX MOUNTING HEIGHTS ABOVE FINISHED FLOORS AS FOLLOWS: FOR RECEPTACLES 18 INCHES AND 48 INCHES FOR SWITCHES AS REQUIRED BY HANDICAPPED CODES.

- 1. FLUORESCENT BALLASTS; HIGH POWER FACTOR (HPF) TYPE, CLASS 'P' PROTECTED, SOUND RATING 'A', AND ENERGY SAVING TYPE.
- 2. FLUORESCENT BALLASTS FOR THE MINI-LAMPS; U.L. LABELED OR ACCEPTABLE TO BUILDING OFFICIALS, ENCAPSULATED, QUIET OPERATING DESIGN IF AVAILABLE.
- ORIENT FLUORESCENT LAMPS WITHIN THE SAME VISUAL SPACE IN THE SAME DIRECTION.

GROUNDING:

- GROUND ELECTRICAL SYSTEMS, EQUIPMENT, AND SUPPORTING STRUCTURES. PROVIDE BONDING JUMPERS WHERE NECESSARY. MECHANICALLY AND ELECTRICALLY SECURE METAL RACEWAYS AND FITTINGS, JOINTS AND CONNECTIONS AT EQUIPMENT TO PROVIDE AN GROUNDING MEANS. METAL RACEWAYS; ELECTRICALLY CONTINUOUS THROUGHOUT THEIR LENGTH FOR AN EFFECTIVE GROUNDING PATH TO THE POWER SERVICE DISCONNECT SWITCH.
- INSTALL GROUNDING CONDUCTORS WITHOUT JOINT OR SPLICE TO THE GREATEST PRACTICAL EXTENT.
- 3. PROVIDE FOR EACH RACEWAY A GREEN #12 GROUNDING CONDUCTOR IN ADDITION TO BRANCH CONDUCTORS INDICATED.
- 4. DO NOT SPLICE MAIN BONDING JUMPER. CONFIRM THAT A MAIN BONDING JUMPER IS PROVIDED AT THE POINT OF SERVICE ONLY.
- GROUND BOTH NEUTRAL AND GREEN ISOLATED GROUNDING TYPE CONDUCTORS FOR ISOLATED GROUNDING CIRCUITS AT ONE POINT OF GROUND OF SEPARATELY DERIVED ELECTRICAL SYSTEM.

TESTING:

architect

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- 1. TEST INDIVIDUAL SYSTEMS AND COMPONENTS FOR FULL FUNCTIONAL REQUIREMENTS. PERFORM TESTS AS REQUIRED BY CODE, LOCAL PRACTICES, OR AS REASONABLY REQUIRED BY THE OWNER'S REPRESENTATIVE WHERE A QUESTION ARISES AS TO THE PROPER INSTALLATION OR OPERATION OF MATERIALS.
- 2. PROVIDE TESTING INSTRUMENTS, PROCEDURES, AND DOCUMENTATION.

ELECTRICAL NOTES:

- 1. ALL WORK SHALL BE INSTALLED PER THE 2011 NEC, NFPA 13, 72 AND ALL LOCALLY ADOPTED CODES IN ENFORCEMENT
- 2. CONTRACTOR SHALL PROVIDE FOR ALL PERMITS, INSPECTIONS, FEES AND OTHER EXPENSES FOR FINAL INSPECTION AND ACCEPTANCE OF HIS WORK BY LOCAL CODE AUTHORITIES.
- 3. ALL CONDUCTORS/WIRING SHALL BE IN METAL OR FLEXIBLE CONDUIT (EMT, IMC, GRS, OR MC CABLE); NM CABLE "ROMEX" SHALL BE ALLOWED TO BE INSTALLED AS PER REQUIREMENTS OF THE NEC. INSTALLATIONS BELOW FINISHED FLOOR OR GRADE SHALL BE ALLOWED TO BE INSTALLED IN PVC.
- 4. ALL CONDUCTORS SHALL BE COPPER, UNLESS OTHERWISE NOTED.
- 5. CONTRACTOR SHALL PROVIDE FOR ALL FINAL EQUIPMENT CONNECTIONS FOR EQUIPMENT AS INDICATED ON THE PLANS. OTHER OWNER PROVIDED EQUIPMENT NOT INDICATED SHALL BE INSTALLED ONLY AFTER WRITTEN AGREEMENT IS RECEIVED FROM THE OWNER.
- 6. ALL MATERIAL SHALL BE NEW, CLEAN AND RATED FOR USE IN THE AREA IN WHICH IT IS TO BE INSTALLED.
- CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS TO THE BEST OF HIS ABILITY PRIOR TO COMMENCEMENT OF WORK AND SHOULD HE FIND ADDITIONAL WORK REQUIRED TO COMPLETE HIS PORTION OF THE WORK. NOTIFY THE ARCHITECT IN
- 8. UPON COMPLETION OF WORK, ALL BREAKER PANELS SHALL BE LABELED WITH NEW TYPED SCHEDULES AND AFFIXED TO THE INSIDE COVER OF THEIR RESPECTIVE PANELS.
- 9. ALL BREAKER PANELS SHALL BE CLEARLY LABELED WITH PLASTIC BLACK STENCILED PLACARDS WITH WHITE LETTERS 1 1/2" HIGH.
- 10. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE MECHANICAL CONTRACTOR FOR FINAL CONNECTION AND CONTROL OF EQUIPMENT. CONTRACTOR SHALL ADVISE MECHANICAL CONTRACTOR OF VOLTAGE REQUIREMENTS FOR NEW MECHANICAL EQUIPMENT TO BE PROVIDED.
- 11. ALL DEVICES SHALL BE RATED FOR THE CIRCUIT IN WHICH IT IS ATTACHED AND SHALL BE PROVIDED WITH A MID-WAY SIZE COVER PLATE; EXCEPT THOSE IN UNFINISHED AREAS SHALL BE PROVIDED WITH GALVANIZED STEEL COVER PLATES. COORDINATE DEVICE AND COVER PLATE COLOR WITH THE OWNER/ARCHITECT PLANS AND FINISHES.
- 12. PROVIDE TEMPORARY LIGHTING ACCOMMODATIONS FROM TEMPORARY POWER POLE AT THE DIRECTION OF THE OWNER'S SUPERINTENDENT OR HIS REPRESENTATIVE.
- 13. PROVIDE AND INSTALL GROUNDING ELECTRODES, METAL WATER BONDING AND BUILDING/FOUNDATION STEEL BONDING TO THE GROUND SYSTEM PER THE NEC SECTION 220.
- 14. ALL PENETRATIONS MADE THROUGH RATED WALLS OR CEILING ASSEMBLIES SHALL BE SEALED AND CAULKED WITH FIRE RETARDANT CAULK OR UL APPROVED FIRE ASSEMBLY. COORDINATE EXACT FIRE RESISTIVE RATING AND LOCATION OF ASSEMBLY WITH THE
- 15. ALL DISCONNECT SWITCHES SHALL BE RATED AT OR ABOVE THE RATING OF THE CIRCUIT. ALL EXTERIOR DISCONNECT SWITCHES, RACEWAYS AND EQUIPMENT SHALL BE NEMA-3R RATED.
- 16. OWNER SHALL PROVIDE SPECIFICATION OF LIGHTING FIXTURES, WHIPS AND LAMPS; FIXTURES AND CIRCUITING SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.

ELECTRICAL SYMBOL LEGEND:

HOMERUN CIRCUIT TO PANEL AS INDICATED. HATCH MARKS INDICATE QUANTITY OF CONDUCTORS WITHIN RACEWAY. NO HATCH MARKS INDICATE 2#12, 1#12G, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL PROVIDE EACH FEEDER WITH A GREEN/BARE EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH THE N.E.C. (TABLE 250.122), UNLESS OTHERWISE INDICATED.

WIRING INSTALLED CONCEALED IN FINISHED SPACES, EXPOSED IN UNFINISHED SPACES.

WIRING INSTALLED CONCEALED IN SLAB OR BELOW GRADE. INSTALLATION DEPTH AS NOTED.

JUNCTION BOX INSTALLED FLUSH OR ABOVE CEILING.

JUNCTION BOX MOUNTED FLUSH IN WALL. ELEVATION AS NOTED OR COORDINATED WITH ARCHITECTURAL ELEVATIONS.

REQUIREMENTS. • "NL" - INDICATES FIXTURE TO BE CONNECTED TO AN UNSWITCHED PHASE CONDUCTOR OR

AHEAD OF SWITCH WITHIN CIRCUIT. • "EM"- INDICATES FIXTURE TO BE PROVIDED WITH A 90 MIN. EMERGENCY EGRESS BATTERY BACK-UP UNIT. REFER TO FIXTURE SCHEDULE FOR REQUIRED LUMEN OUTPUT OF LAMP(S)

FLUORESCENT TROFFER FIXTURE, REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL

CONNECTED TO BATTERY BACK-UP. - FLUORESCENT STRIP FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL REQUIREMENTS.

> "NL" – INDICATES FIXTURE TO BE CONNECTED TO AN UNSWITCHED PHASE CONDUCTOR OF AHEAD OF SWITCH WITHIN CIRCUIT. • "EM"- INDICATES FIXTURE TO BE PROVIDED WITH A 90 MIN. EMERGENCY EGRESS

BATTERY BACK-UP UNIT. REFER TO FIXTURE SCHEDULE FOR REQUIRED LUMEN OUTPUT

O - INCANDESCENT/H.I.D./FLOURESCENT DOWNLIGHT FIXTURE, REFER TO LIGHTING FIXTURE

OF LAMP(S) CONNECTED TO BATTERY BACK-UP.

SCHEDULE FOR ADDITIONAL REQUIREMENTS. • "NL" - INDICATES FIXTURE TO BE CONNECTED TO AN UNSWITCHED PHASE CONDUCTOR OR

AHEAD OF SWITCH WITHIN CIRCUIT. • "EM"- INDICATES FIXTURE TO BE PROVIDED WITH A 90 MIN. EMERGENCY EGRESS BATTERY BACK-UP UNIT. REFER TO FIXTURE SCHEDULE FOR REQUIRED LUMEN OUTPUT OF LAMP(S) CONNECTED TO BATTERY BACK-UP.

INCANDESCENT/H.I.D./FLOURESCENT WALL MOUNTED FIXTURE, REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL REQUIREMENTS. COORDINATE MOUNTING HEIGHT WITH BUILDING ELEVATIONS AND PLANS AS NOTED.

SINGLE POLE TOGGLE SWITCH, MOUNTED AT 40" A.F.F., HUBBELL #HBL1221

THREE-WAY TOGGLE SWITCH, MOUNTED AT 40" A.F.F., HUBBELL #HBL1223.

DUPLEX RECEPTACLE, 20A., 120V., MOUNTED AT 20" A.F.F., HUBBELL #5362.

TAMPER RESISTANT- HUBBELL #BR20TR "IG"— ISOLATED GROUND, HUBBELL #IG5362.

"GFI" - GROUND FAULT CIRCUIT INTERRUPTER, HUBBELL #GF-5362 "WP" - DEVICE PROVIDED WITH A WEATHER-PROOF DEVICE COVERPLATE TWO (2) DUPLEX RECEPTACLES UNDER COMMON PLATE, 20" A.F.F., OR ABOVE COUNTER

WHERE SHOWN, HUBBELL #5362. SPECIAL RECEPTACLE. REFER TO PLANS FOR VOLTAGE, AMPERAGE AND CONFIGURATION TYPE

FLUSH FLOOR DUPLEX RECEPTACLE AND COVERPLATE, 20A, 120V. HUBBELL #5362. COORDINATE COVERPLATE TYPE AND FLOOR FINISH WITH ARCHITECTURAL PRIOR TO ROUGH-IN OF BACKBOX

COMBINATION TELEPHONE/DATA OUTLET BOX, 18" A.F.F., OR ABOVE COUNTER WHERE SHOWN, 2"X4" BOX WITH (2) CAT5E BACK TO TELEPHONE BACKBOARD AS DIRECTED BY

CABLE TV OUTLET BOX, 18" AFF (UON), 2"X4" BOX W/ (1) COAX AND (1) CAT 5E STUBBED BACK TO TELEPHONE BACKBOARD AS DIRECTED BY OWNER.

MOTOR, RATINGS (HP, VOLTAGE, PHASE, AMPERAGE) SIZE AS NOTED ON PLANS. DISCONNECT SWITCH, AMPACITY/POLES/FUSING AS NOTED. NEMA 1 ENCLOSURE UNLESS

OTHERWISE NOTED. PANELBOARD, SEE SCHEDULE AND RISER DIAGRAM FOR VOLTAGE, PHASE, AND AMPACITY. TELEPHONE/AUXILLIARY SYSTEMS BACKBOARD, PROVIDE 4'X8' MIN. PLYWOOD BACKBOARD PAINTED WITH GRAY FIRE RETARDANT PAINT. SECURE TO BUILDING STRUCTURE WITH ANCHOI BOLTS. PROVIDE A 12 SPACE GROUND BUS BAR WITH (1)#6G -3/4"PVC FROM BUS BAR

WEATHERPROOF GASKETED ENCLOSURE AND COVER.

BACK TO ELECTRICAL SERVICE GROUND.

120V FIRE ALARM CEILING MOUNTED SMOKE DETECTOR. ALL DEVICES SHALL BE INTERCONNECTED; ACTIVATION OF A SINGLE DEVICE SHALL ANNUNCIATE ALL DEVICES WITHIN UNIT.

MINIMUM POUR DEPTH), HUBBELL # B2436, B4233, B4333 SERIES. FLUSH FLOOR BOXES SHALL BE

GANGED IN 1, 2, OR 3 GANG BOXES WITH DEVICES AS SHOWN ON FLOOR PLANS.

ALL FLUSH FLOOR BOXES SHALL BE CAST IRON, SINGLE UNIT CONSTRUCTION WITH SINGLE UNIT COVERPLATES AND CARPET FLANGES. FLUSH FLOOR BOXES SHALL BE FULLY ADJUSTABLE, DEEP (3.75"

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ELECTRICAL LEGEND, NOTES & DETAILS

WHITE JULFUR ROAD, GAINE VILLE GA

XTREME CLEAN AUTO JPA

 ∞

project name

drawn KAH

MRS checked

approved

E0.1