

WASH HOUSE LAUNDRY

711 SE 291 HWY
LEE'S SUMMIT, MO 64063

OWNER: WASH HOUSE LAUNDRY
410 SOUTH WEST STATE
BLUE SPRING, MISSOURI 64014
(816) 988-7775

ARCHITECT: WGN ASSOCIATES INC.
4051 BROADWAY
KANSAS CITY, MISSOURI 64111
PH: (816) 931-2820
FAX: (816) 931-2821
CONTACT: CRIS WOODS

STRUCTURAL ENGINEER: VAN DEURZEN AND ASSOCIATES, P.A.
11011 KING STREET SUITE 130
OVERLAND PARK, KANSAS 66210
CONTACT: CHAD STREETER

MEP ENGINEER: LANKFORD FENDLER + ASSOCIATES
CONSULTING ENGINEERS, INC.
1730 WALNUT ST
KANSAS CITY, MO 64108
PH: (816) 221-1411

SHEET INDEX

CODE SHEET INDEX:
CS1 COVER, SITE PLAN, CODE ANALYSIS

ARCHITECTURAL SHEET INDEX:

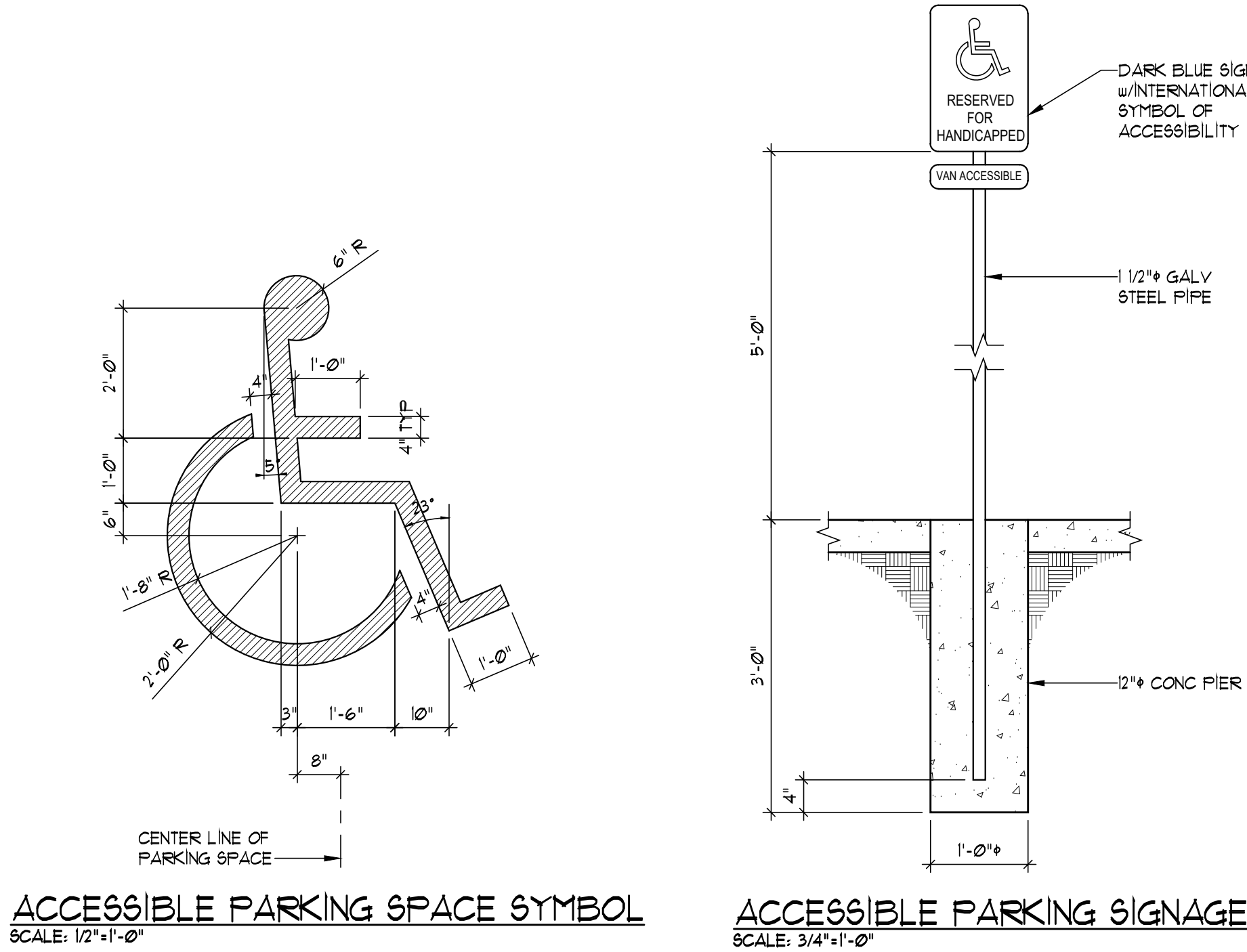
A1 FIRST FLOOR PLAN
A2 REFLECTED PLAN
A3 BUILDING ELEVATIONS
A4 WALL SECTIONS

STRUCTURAL SHEET INDEX:

S1 FOUNDATION PLAN
S2 ROOF PLAN
S3 STRUCTURAL DETAILS

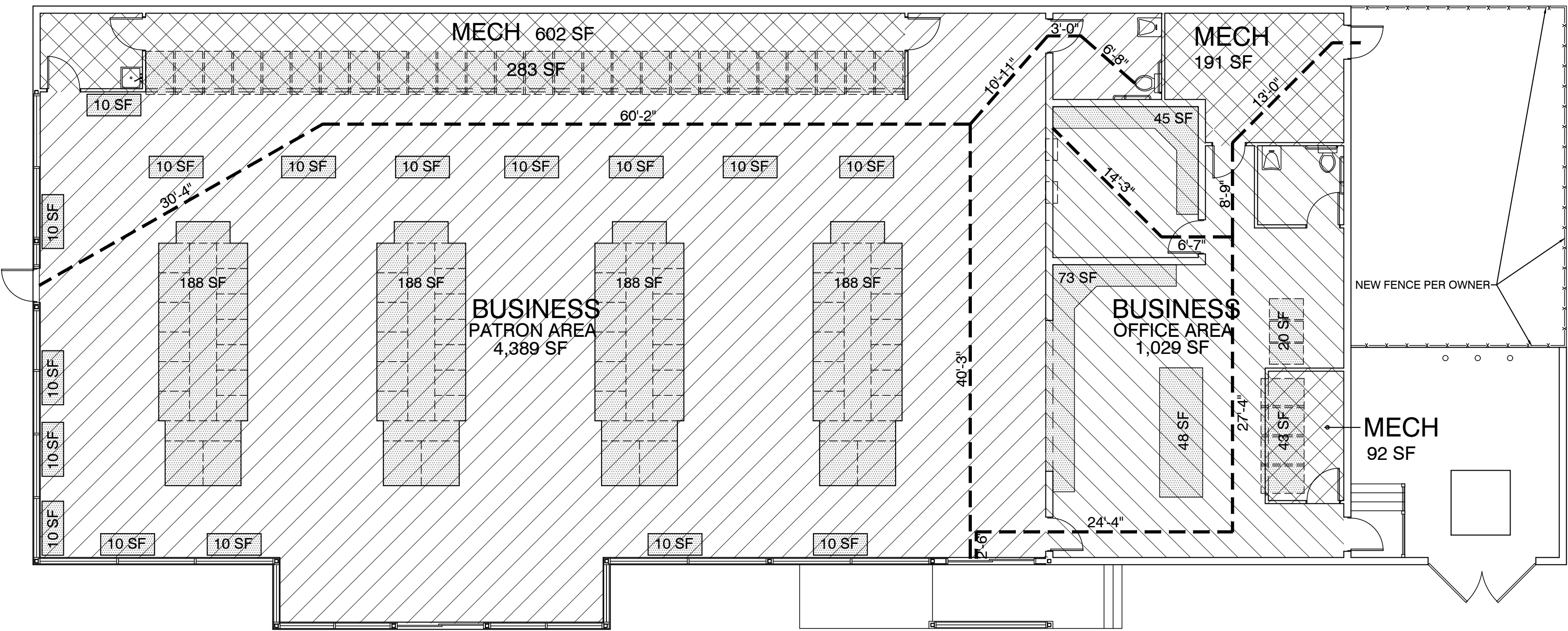
MECHANICAL SHEET INDEX:

MEP1 MECH NOTES
MEP2 MECH NOTES
M1 MECHANICAL PLAN
M2 MECHANICAL DETAILS
P1 PLUMBING PLAN
P2 PLUMBING DETAILS
E1 POWER PLAN
E2 LIGHTING PLAN
E3 SYSTEMS PLAN
E4 PANEL PLANS
E5 RISER DIAGRAM AND DETAILS



CODE ANALYSIS

1/8" = 1'-0"



PROJECT & BLDG. DESCRIPTION: THIS IS AN ADAPTIVE REUSE / REMODELING PROJECT OF AN EXISTING BUILDING, PREVIOUSLY USED AS A RESTAURANT. THE BUILDING IS CONVENTIONAL WOOD FRAMING W/ WOOD ROOF TRUSSES & EXTERIOR BEARING WALLS.

ADDRESS: 711 ROUTE 291, LEE'S SUMMIT, MISSOURI

LEGAL DESCRIPTION: ALL OF LOT 5A, POLK ADDITION, LOTS 5A & 5B, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, EXCEPT THAT PART DESCRIBED AS FOLLOWS:

ALL THAT PART 5A, POLK ADDITION, LOTS 5A & 5B, DESCRIBED AS FOLLOWS:
BEGINNING AT THE SE CORNER OF SAID LOT 5A, THENCE SOUTH 90° 0' MINUTES, 0 SECONDS WEST ALONG THE SOUTH LINE OF SAID LOT 5A A DISTANCE OF 26.05 FEET; THENCE NORTH 0° 0' MINUTES, 0 SECONDS EAST, CONTINUING ALONG THE LOT LINE OF SAID LOT 5A A DISTANCE OF 110 FEET; THENCE NORTH 0° 0' MINUTES, 0 SECONDS EAST, A DISTANCE OF 28.05 FEET TO A POINT ON THE LOT LINE BETWEEN LOT 5A & LOT 5B OF SAID SUBDIVISION; THENCE SOUTH 0° 0' MINUTES, 0 SECONDS WEST ALONG THE LOT LINE OF SAID LOT 5A & 5B A DISTANCE OF 110 FEET TO THE POINT OF THE BEGINNING

APPLICABLE CODES: 2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL EXISTING BUILDING CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE

AUTOMATIC FIRE SPRINKLER SYSTEM: NOT REQUIRED
MANUAL FIRE ALARM SYSTEM: NOT REQUIRED
REQUIRED FIRE RATINGS: NONE REQUIRED

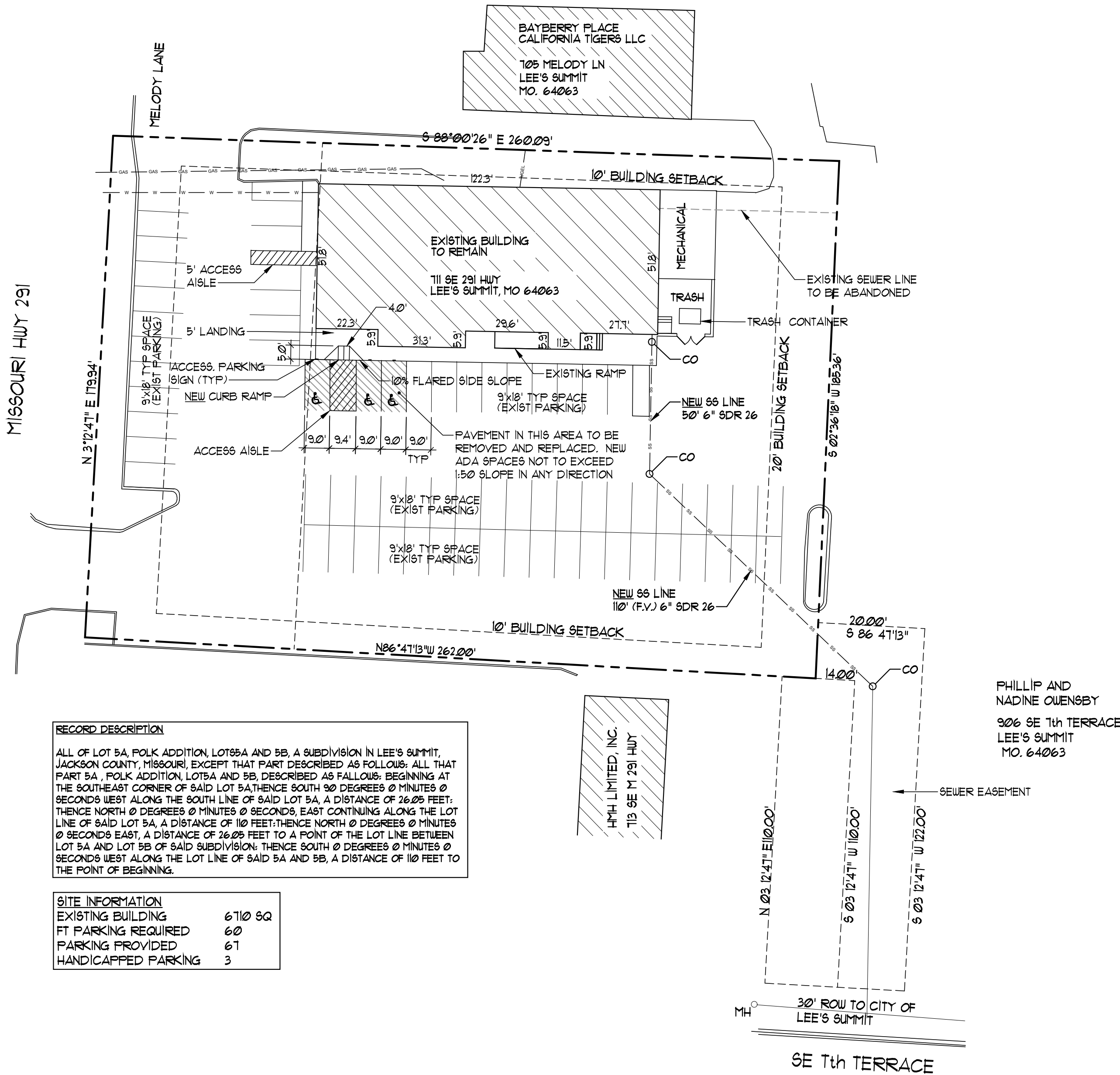
OCCUPANCY CLASSIFICATION: B
TYPE OF CONSTRUCTION: V-B
BLDG AREA AS DEFINED BY 2018 IBC, SECTION 202: 6,303 SF
OCCUPANT LOAD: 31 OCCUPANTS

OCCUPANCY SPACE / AREA	SF	DEDUCT UNUSABLE FIXED EQUIP SF	# OF USABLE SF	O.L.F.	# OF OCCUP	REQD TLTS	REQD LAVS
BUSINESS PATRON AREA	4,389 SF	- 912 SF	= 3,477 SF	/ 150	= 23.2	1*	1
BUSINESS OFFICE AREA	1,029 SF	- 186 SF	= 843 SF	/ 150	= 5.6	1*	1
MECHANICAL	885 SF	- 326 SF	= 559 SF	/ 300	= 1.9		
BLDG TOTAL SF	6,303 SF		TOTAL # OF OCCUPANTS		30.7		

* THE OCCUPANT LOAD OF THE FACILITY HAS BEEN DETERMINED USING THE USABLE SF, NOT THE GROSS SF BECAUSE WE ASSERT THAT NO OCCUPANTS CAN OCCUPY THE SAME SF AS THE FIXED LAUNDRY EQUIPMENT. SECONDLY, THE REQUIRED # OF PLUMBING FIXTURES HAS BEEN DETERMINED BY SEPARATING THE BUSINESS AREAS, PATRONS & OFFICE, FROM ONE ANOTHER. PER THE 2018 IBC, SECTION 2902.2, EXCEPTION 4, SEPARATE RESTROOM FACILITIES SHALL NOT BE REQUIRED IN BUSINESS OCCUPANCIES IN WHICH THE MAXIMUM OCCUPANT LOAD IS 25 OR GREYER. THE AUTHORITY TO DO THIS IS ALLOWED BY IBC, SECTION 1004.3 WHERE IT STATES IN THE EXCEPTION THEREIN THAT "WHERE APPROVED BY THE BUILDING OFFICIAL, THE ACTUAL NUMBER OF OCCUPANTS FOR WHOM EACH OCCUPIED SPACE, FLOOR OR BUILDING IS DESIGNED, ALTHOUGH LESS THAN THOSE DETERMINED BY CALCULATION, SHALL BE PERMITTED TO BE USED IN THE DETERMINATION OF THE DESIGN OCCUPANT LOAD. WE HEREBY REQUEST THE BUILDING OFFICIAL OF LEE'S SUMMIT, MO, CONCUR WITH OUR ASSESSMENT."

REQUIRED EGRESS WIDTH: THE BUSINESS PATRON AREA IS SERVED BY 3 DIFFERENT EXITS, 2 AUTOMATIC DOORS, EACH W/ A 3'-0" WIDE OPENING, AND 1 SWINGING DOOR W/ A 3'-0" WIDE OPENING. THE NUMBER OF OCCUPANTS IN THE PATRON AREA IS 23.2 OCCUPANTS. EACH OF THE AUTOMATIC DOORS IS CAPABLE OF EXITING 230 OCCUPANTS (140/2) & THE SWINGING DOOR IS CAPABLE OF EXITING 180 OCCUPANTS (36/2). THE BUSINESS OFFICE AREA IS SERVED BY 2 DIFFERENT EXITS THAT ARE EACH 36" WIDE. THE NUMBER OF NUMBER OF OCCUPANTS IN THE OFFICE AREA IS 5.6 OCCUPANTS. EACH OF THE 2 DOORS ARE CAPABLE OF EXITING 180 OCCUPANTS (36/2).

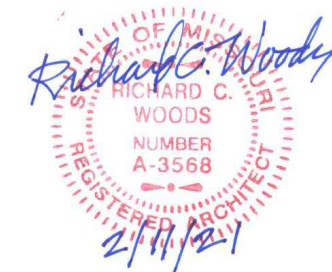
TRAVEL DISTANCE: TABLE 1017.2 IN THE 2018 IBC STATES THE MAXIMUM TRAVEL DISTANCE IN A "B" OCCUPANCY WITHOUT A SPRINKLER SYSTEM IS 200 FEET. WE HAVE CALCULATED THE MAXIMUM TRAVEL DISTANCE WITHIN THE BUSINESS PATRON AREA FROM THE MOST REMOTE LOCATION IN THE RESTROOM TO THE NEAREST EXIT TO BE 60'-10". THE TRAVEL DISTANCE TO THE FURTHEST EXIT IS 111'-1". THE MAXIMUM TRAVEL DISTANCE WITHIN THE BUSINESS OFFICE AREA HAS BEEN CALCULATED TO BE 31'-2". THE TRAVEL DISTANCE TO THE FURTHEST EXIT IS 75'-0".



RECORD DESCRIPTION
ALL OF LOT 5A, POLK ADDITION, LOTS 5A & 5B, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, EXCEPT THAT PART DESCRIBED AS FOLLOWS: ALL THAT PART 5A, POLK ADDITION, LOTS 5A & 5B, DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF SAID LOT 5A, THENCE SOUTH 90 DEGREES 0 MINUTES 0 SECONDS WEST ALONG THE SOUTH LINE OF SAID LOT 5A, A DISTANCE OF 26.05 FEET; THENCE NORTH 0 DEGREES 0 MINUTES 0 SECONDS EAST, CONTINUING ALONG THE LOT LINE OF SAID LOT 5A, A DISTANCE OF 110 FEET; THENCE NORTH 0 DEGREES 0 MINUTES 0 SECONDS EAST, A DISTANCE OF 28.05 FEET TO A POINT ON THE LOT LINE BETWEEN LOT 5A & LOT 5B OF SAID SUBDIVISION; THENCE SOUTH 0 DEGREES 0 MINUTES 0 SECONDS WEST ALONG THE LOT LINE OF SAID LOT 5A & 5B, A DISTANCE OF 110 FEET TO THE POINT OF BEGINNING.

SITE INFORMATION	
EXISTING BUILDING	610 SQ
FT PARKING REQUIRED	60
PARKING PROVIDED	61
HANDICAPPED PARKING	3

SITE PLAN
SCALE: 1" = 30'-0"



ISSUE DATE: 2/1/2021
PERMIT: 2/1/2021
REVISIONS:

JOB NO: 3532-2001

DRAWN BY: JUH

DESIGNED BY: CHB

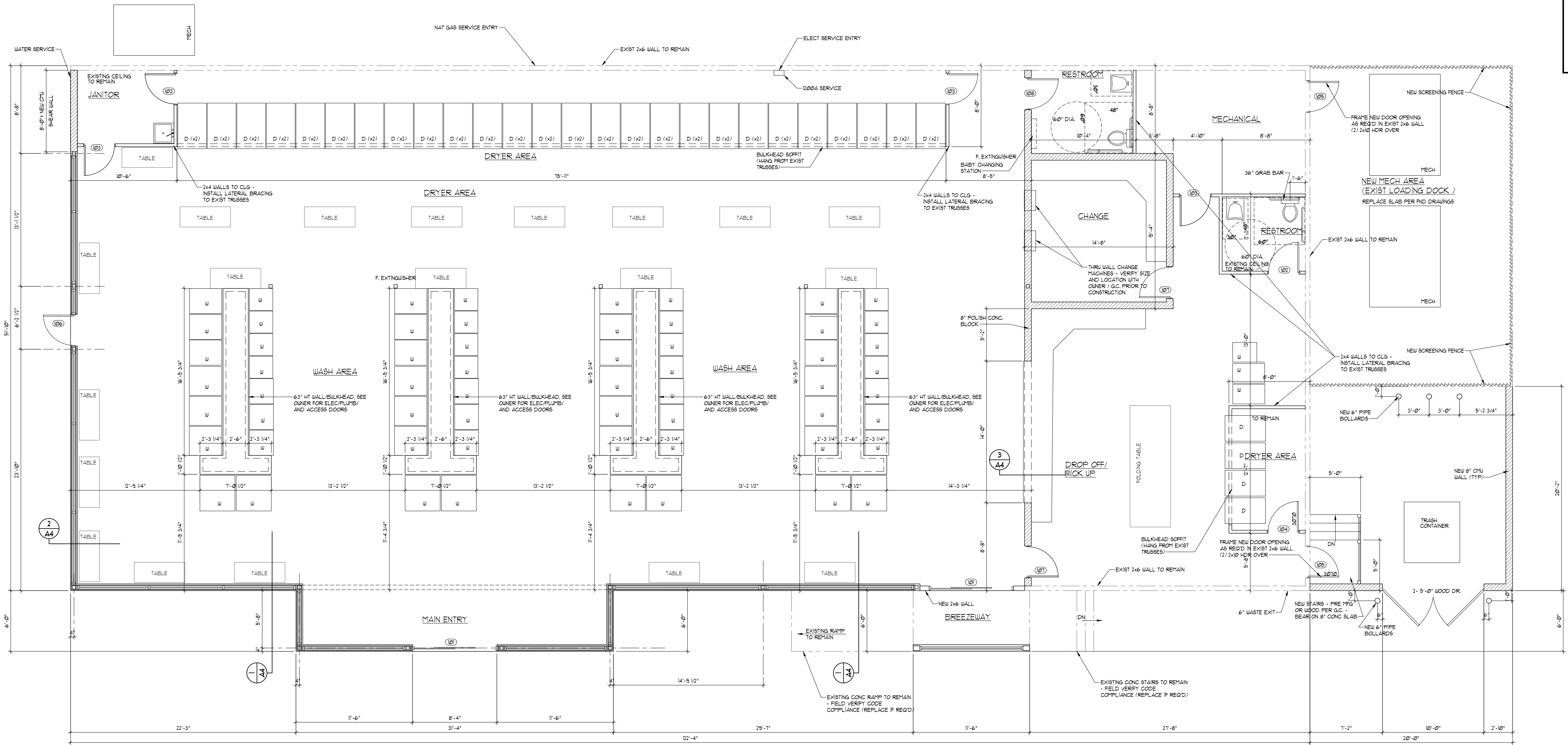
VAN DEURZEN & ASSOCIATES, P.A.
11011 KING STREET SUITE 130
OVERLAND PARK, KS 66210
TEL: (913) 666-1100 FAX: (913) 666-1101
E-MAIL: VANDEURZEN@VANDEURZEN.COM
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WGN ARCHITECTS
4051 BROADWAY
KANSAS CITY, MISSOURI 64111
(816) 931-2820

COVER SHEET FOR:
WASH HOUSE LAUNDRY - LEE'S SUMMIT
711 SE 291 HWY.
LEE'S SUMMIT MO 64063

SHEET NO:

CS1

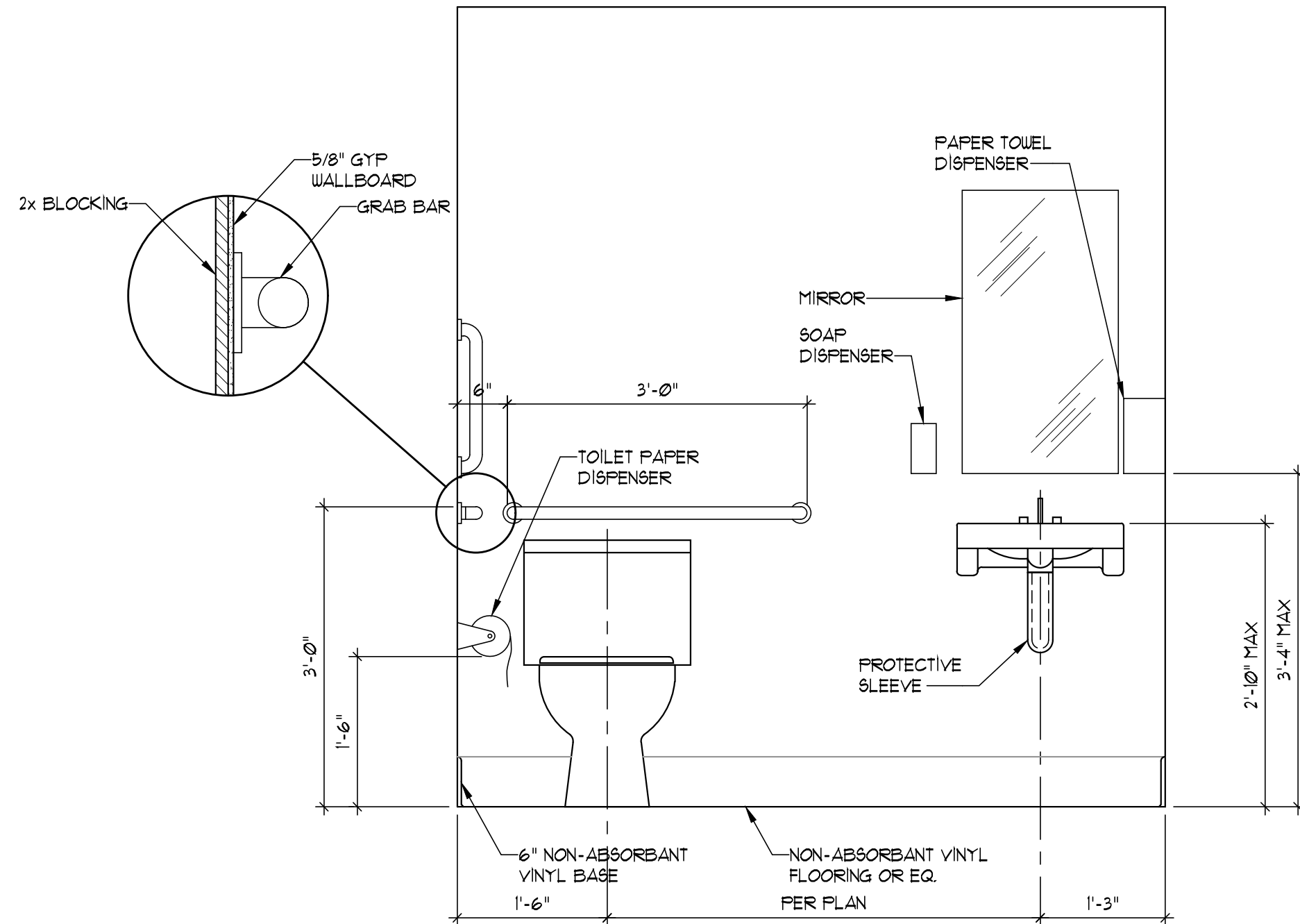


DOOR SCHEDULE (###)						
	SIZE	TYPE	DOOR MATERIAL	FRAME MATERIAL	LATCH/SET/LOCKSET	PANIC DEVICES
101	8'-4" x 8'-3 1/4"	STOREFRONT	M1	F1	LOCKSET	---
102	3'-0" x 7'-0"	HOLLOW METAL	M3	F2	LEVER LOCKSET	---
103	3'-0" x 7'-0"	HOLLOW METAL	M3	F2	LEVER LOCKSET	STD PANIC BAR
104	3'-0" x 7'-0"	HOLLOW METAL	M3	F2	LEVER LOCKSET	---
105	3'-0" x 7'-0"	EXT. INSULATED	M2	F2	LEVER LOCKSET	STD PANIC BAR
106	3'-0" x 7'-0"	STOREFRONT	M1	F1	LEVER LOCKSET	STD PANIC BAR
107	3'-0" x 7'-0"	HOLLOW METAL	M3	F2	LEVER LOCKSET	---
108	3'-0" x 7'-0"	HOLLOW METAL	M3	F2	LEVER LOCKSET	---

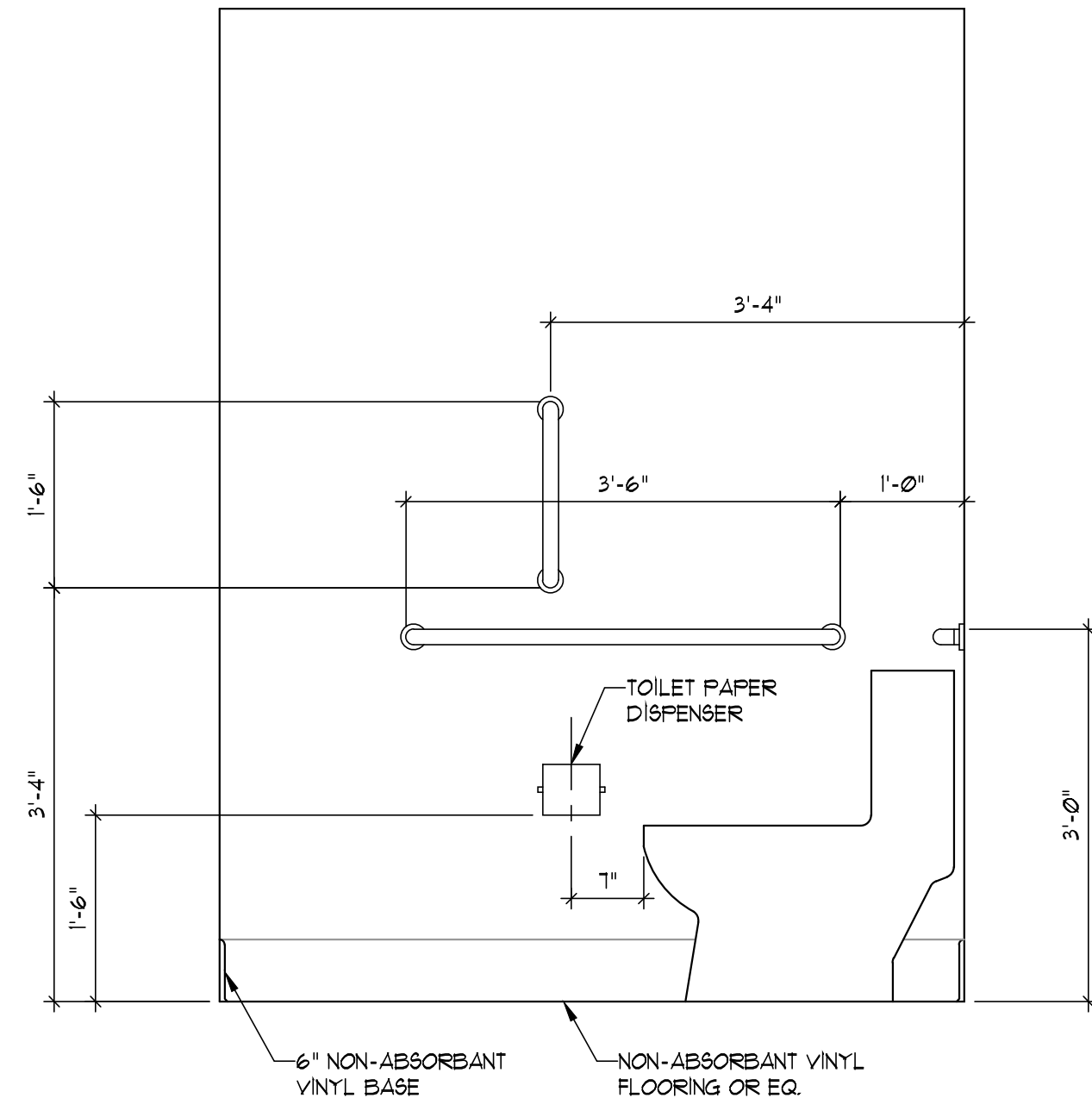
DOOR MATERIAL:
M1 - ALUMINUM STOREFRONT w/ TEMPERED GLASS
M2 - STEEL INSULATED, 18ga. FULL FLUSH, NON-RATED, 1 3/4" THICK
M3 - HOLLOW METAL, 18ga. FULL FLUSH, NON-RATED, 1 3/4" THICK

FRAME MATERIAL:
F1 - ALUMINUM STOREFRONT
F2 - 16ga STEEL WELDED DRYWALL FRAME

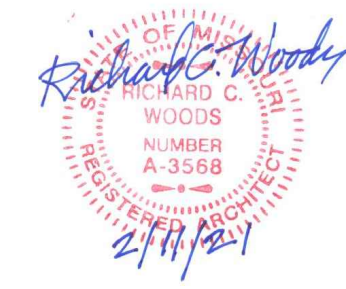
MAIN FLOOR PLAN
SCALE: 1/4" = 1'-0"



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



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



ISSUE DATE:	2/1/2021
PERMIT	
REVISIONS:	
JOB NO:	3532-2001
DRAWN BY:	JUH
DESIGNED BY:	CHS

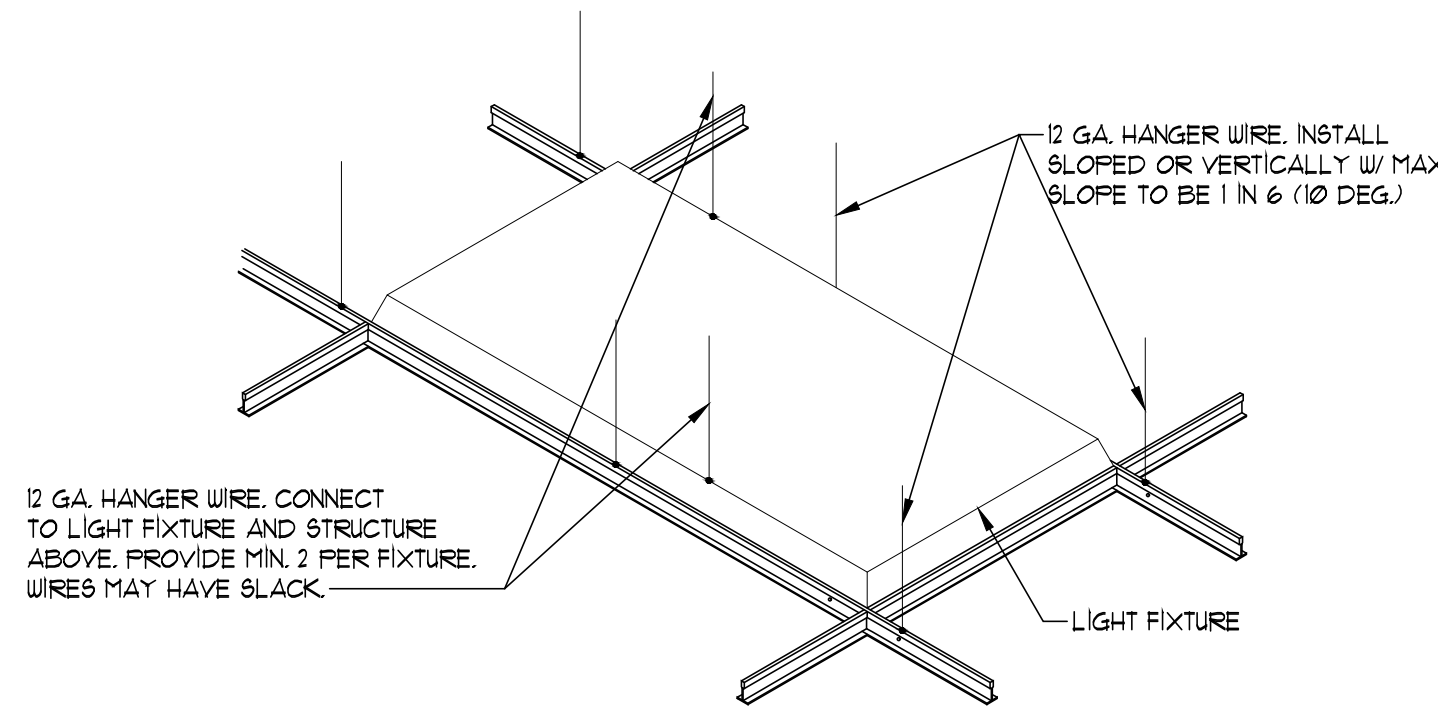
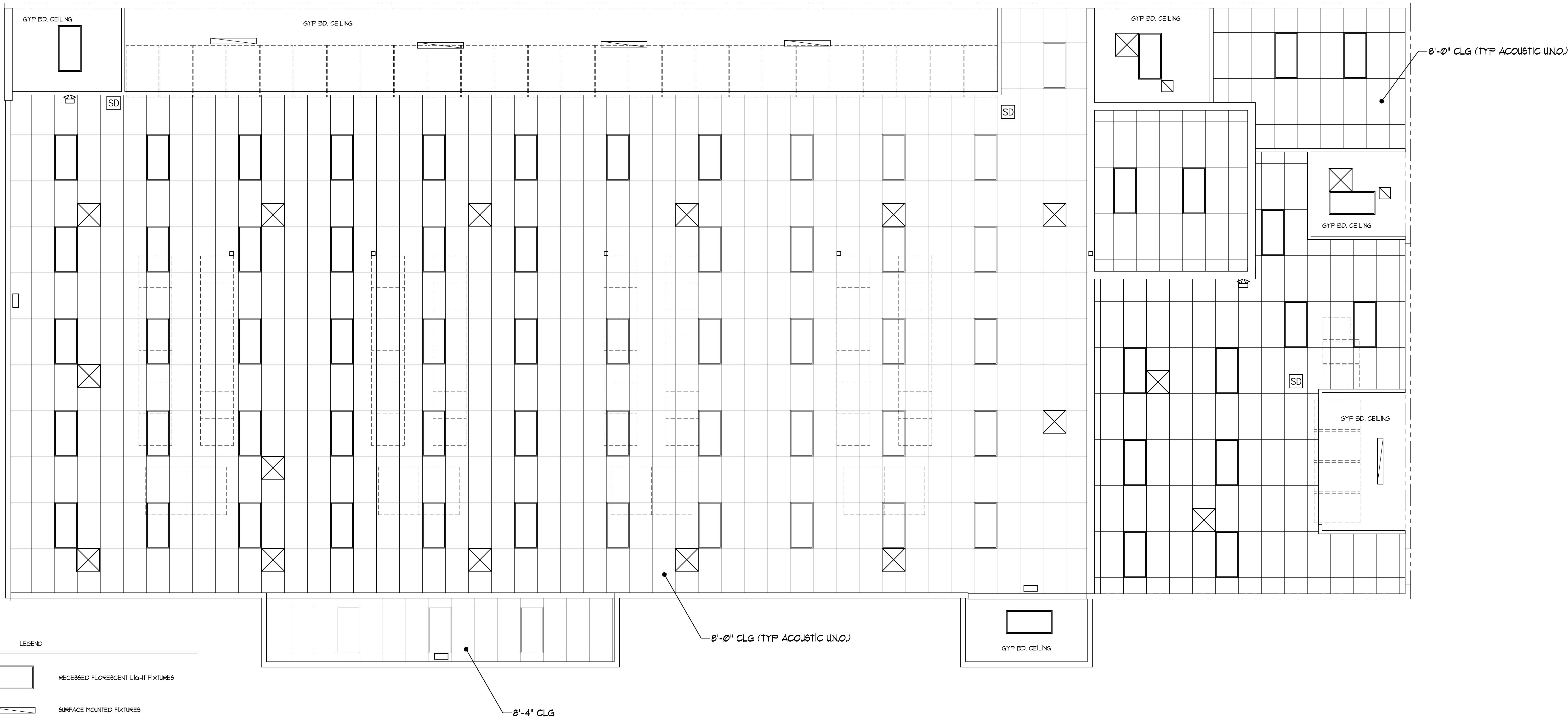
VAN DERKRIK & ASSOCIATES, P.A.
101 KING STREET, SUITE 130
OVERLAND PARK, KS 66210
TEL: 913.241.1111
FAX: 913.241.1112
WWW.VANDERKRIK.COM

W&J
ARCHITECTS
4051 BROADWAY
KANSAS CITY, MISSOURI 64111
(816) 931-2820

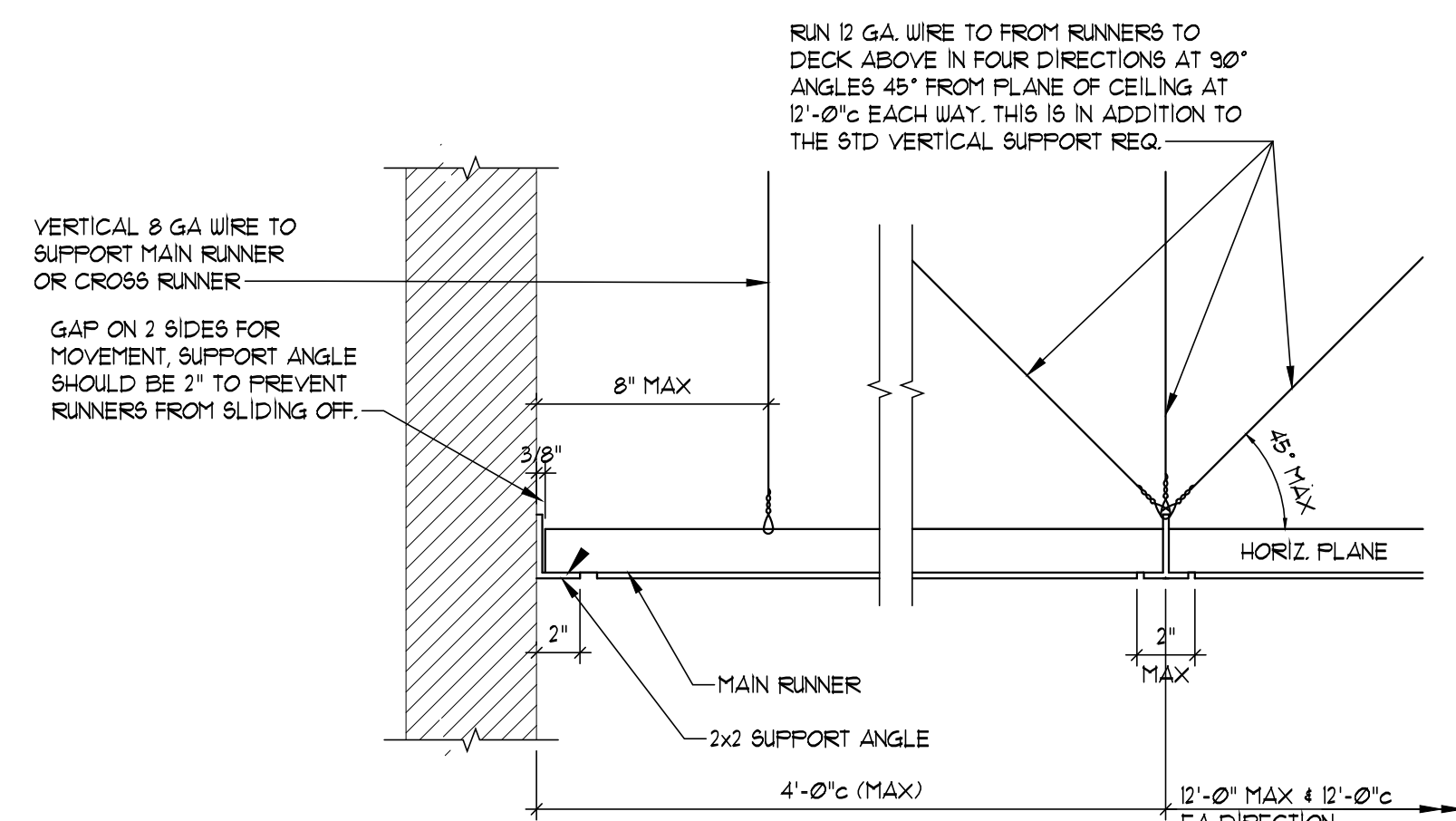
MAIN FLOOR PLAN FOR:
WASH HOUSE LAUNDRY - LEE'S SUMMIT
TUESDAY, JULY 1, 2021
LEE'S SUMMIT, MO 64063

SHEET NO:

A1



LIGHT FIXTURE SUPPORT
SCALE: 3/4" = 1'-0"



SUSPENDED CEILING SUPPORT
SCALE: 1 1/2" = 1'-0"

- NOTES:
1. LIGHT FIXTURES ARE TO BE INDEPENDENTLY SUPPORTED AT 6 LOCATIONS
 2. FASTEN CROSS RUNNERS TO MAIN RUNNERS TO PREVENT CROSS TEES FROM PULLING OR TWISTING OUT OF MAIN RUNNERS.
 3. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM E-580



ISSUE DATE: 2/11/2021
PERMIT: 2/11/2021
REVISIONS:

JOB NO: 3532-2001
DRAIN BY: JWH
DESIGNED BY: CHB

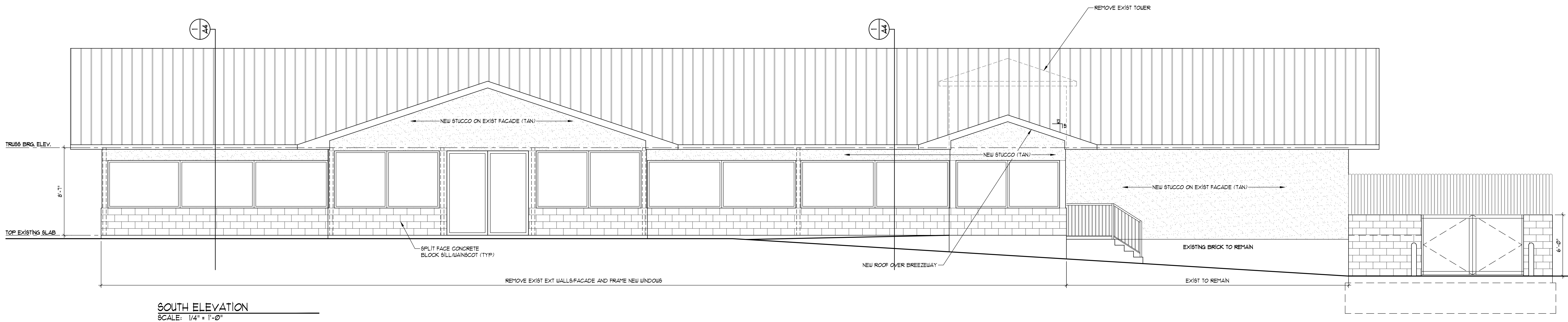
VAN DERKRIEN & ASSOCIATES, P.A.
1801 KING STREET SUITE 130
OVERLAND PARK, KS 66210
TEL: 913.241.1100
FAX: 913.241.1101
WWW.VANDERKRIENANDASSOCIATES.COM
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(816) 931-2820

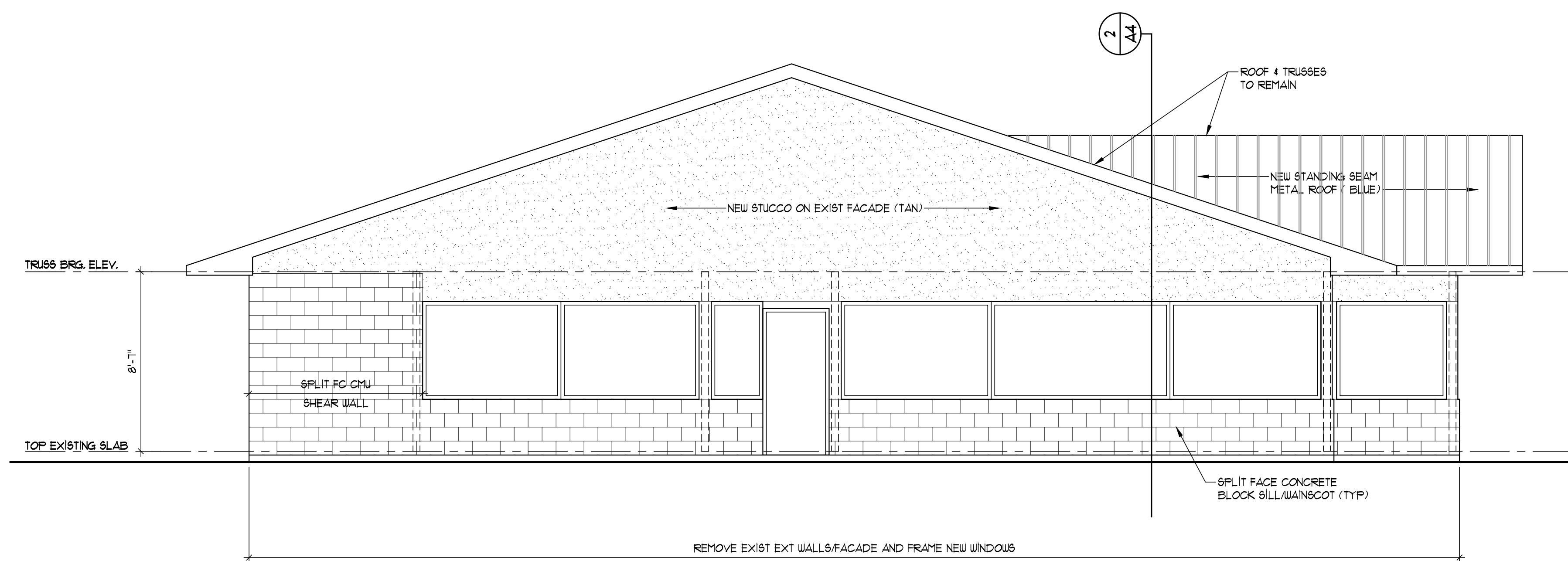
ELEVATIONS FOR:
WASH HOUSE LAUNDRY - LEE'S SUMMIT
TILE 38 LUMP
LEE'S SUMMIT 10664063

SHEET NO:

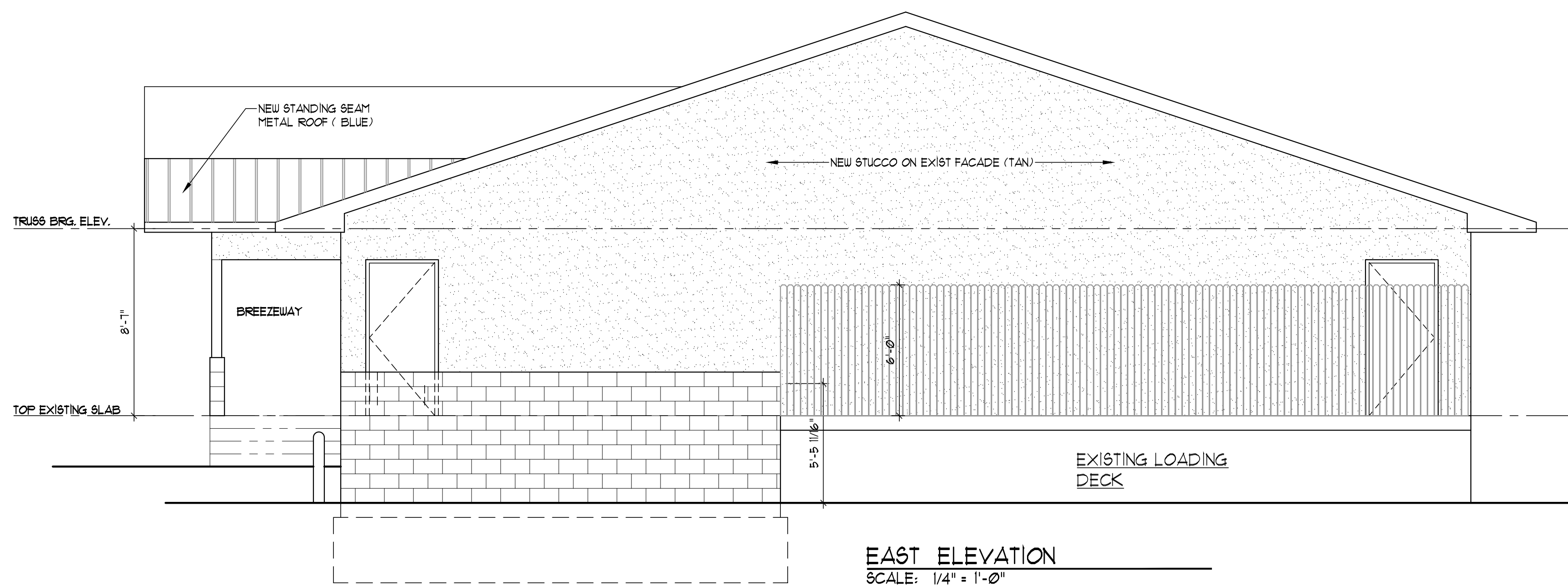
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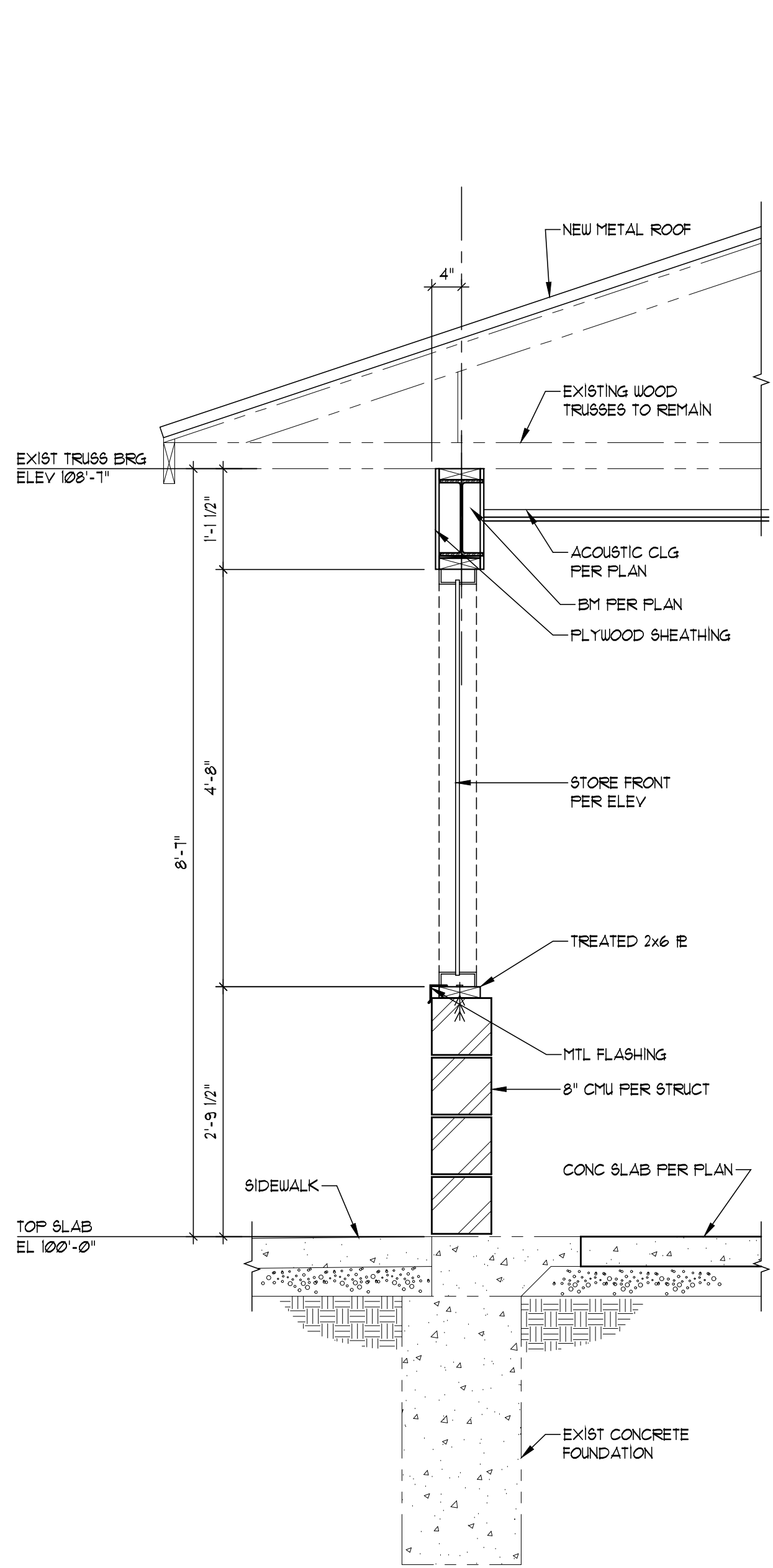
SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



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

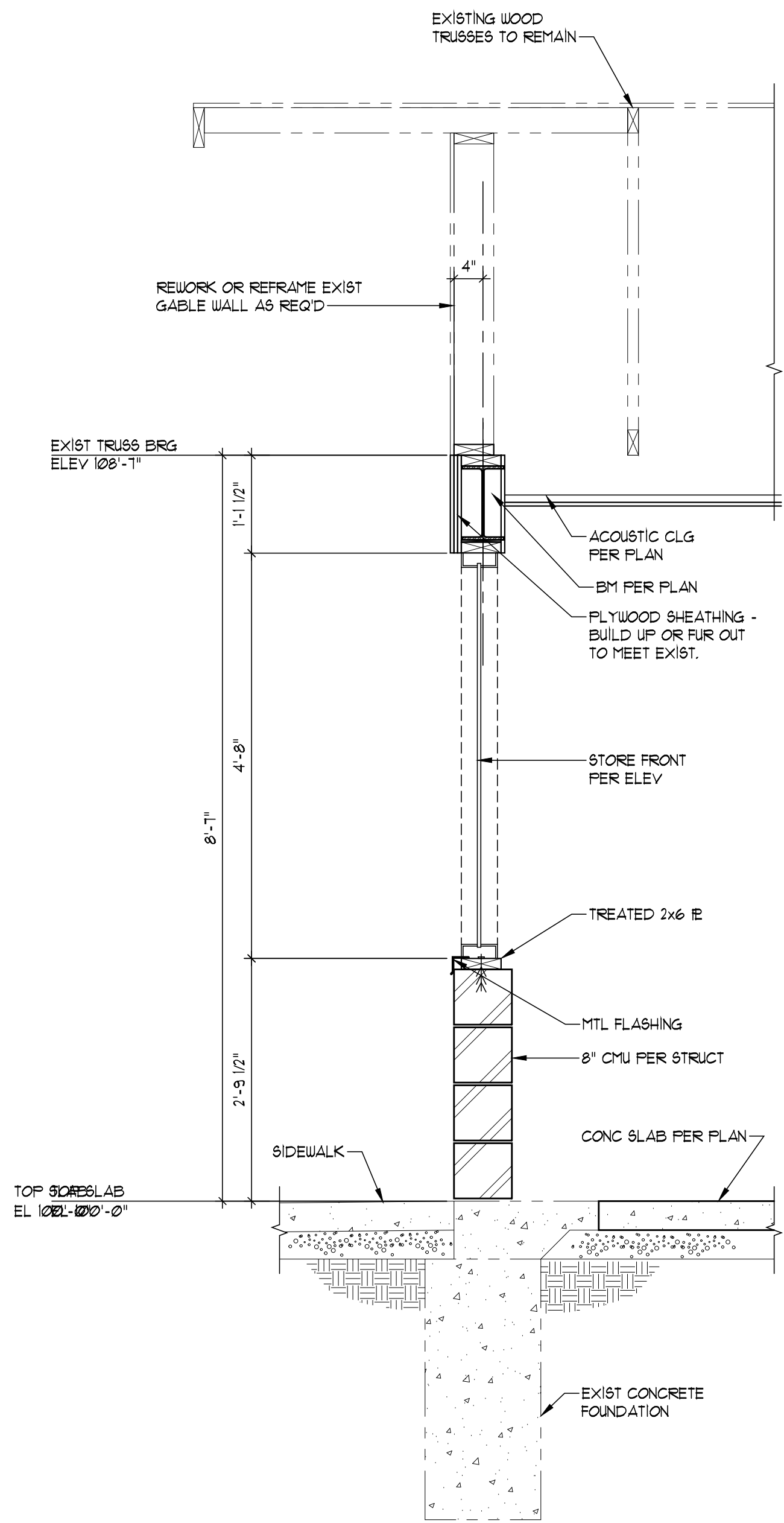


EAST ELEVATION
SCALE: 1/4" = 1'-0"



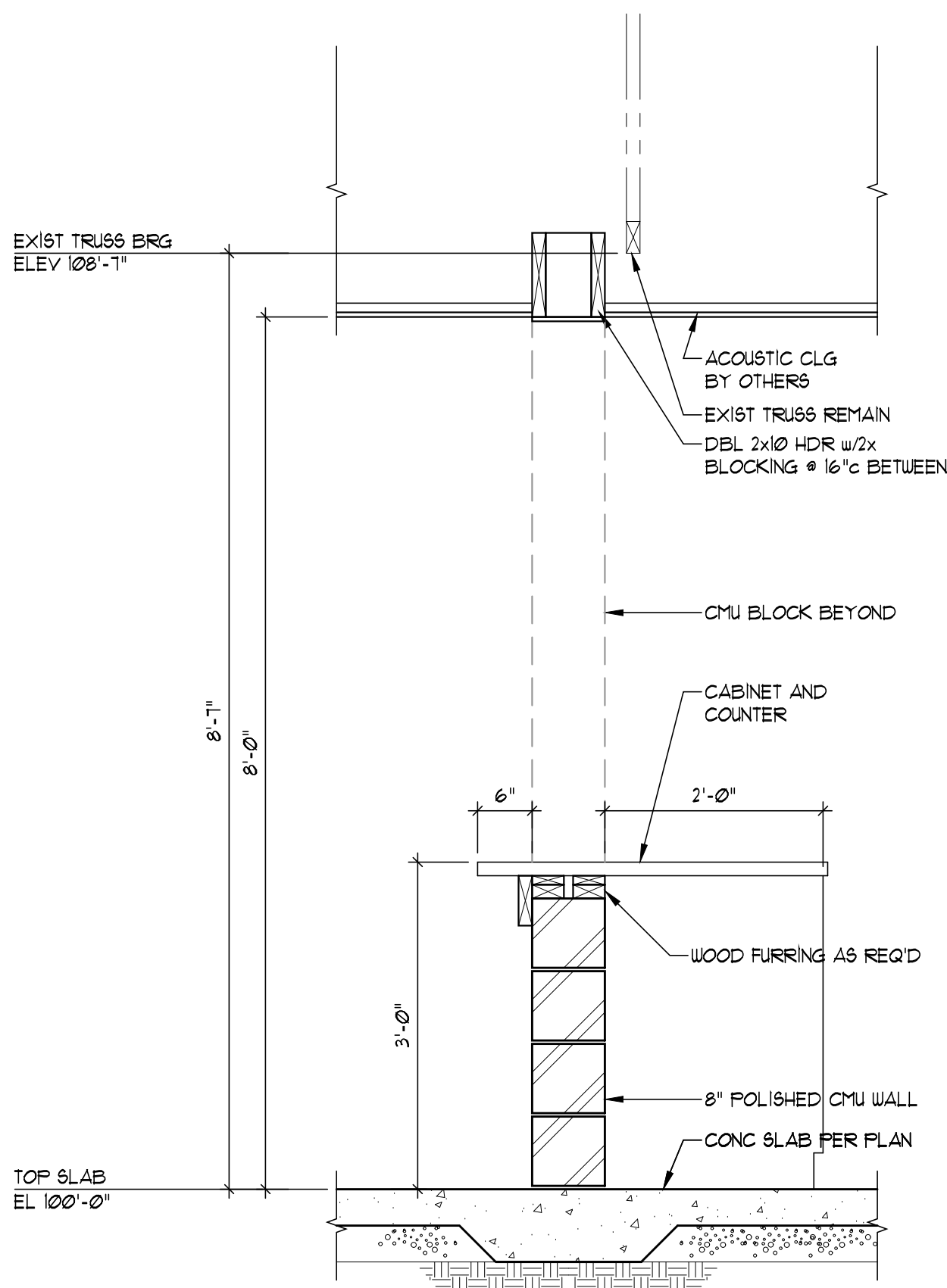
TYP. SOUTH WALL SECTION
SCALE: 1/4" = 1'-0"

1
A4



TYP. WEST WALL SECTION
SCALE: 1/4" = 1'-0"

2
A4



SECTION THRU OFFICE
SCALE: 1/4" = 1'-0"

3
A4



ISSUE DATE:	2/1/2021
PERMIT	
REVISIONS:	
JOB NO:	3532-2001
DRAWN BY:	JUH
DESIGNED BY:	CHS

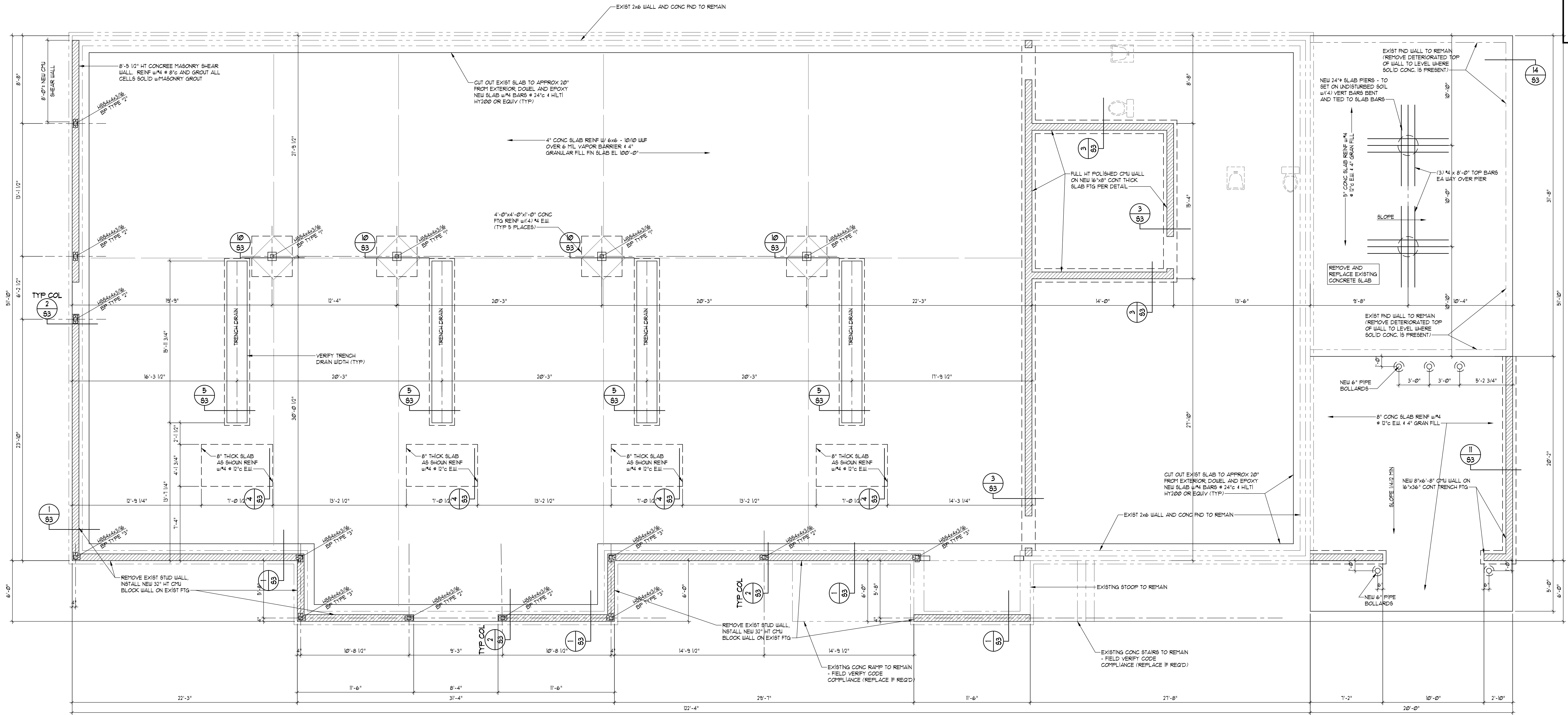
VAN DERZEN & ASSOCIATES, P.A.
1011 KING STREET, SUITE 130
OVERLAND PARK, KS 66210
TEL: 913.241.1111
FAX: 913.241.1111
E-MAIL: VAN.DERZEN@VANDERZENARCH.COM
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wgjn ARCHITECTS
4051 BROADWAY
KANSAS CITY, MISSOURI 64111
(816) 931-2820

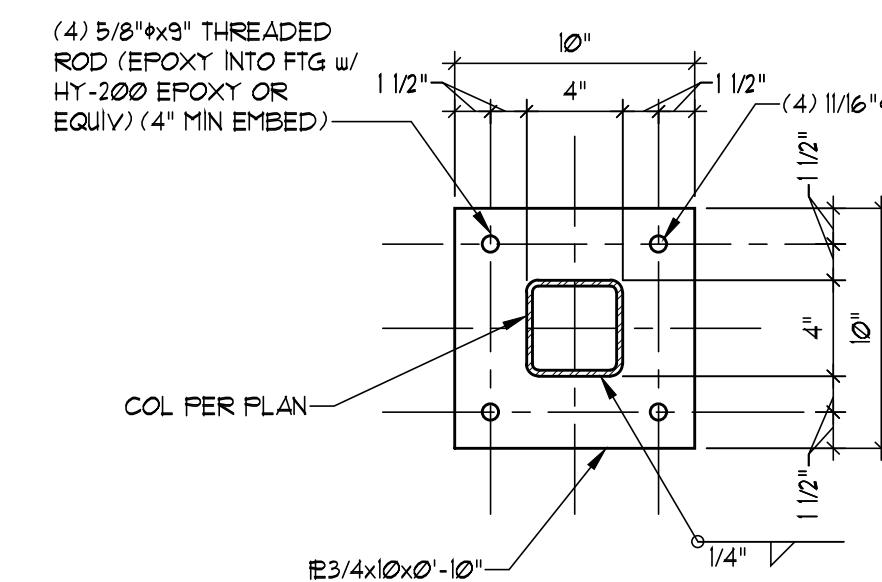
WASH HOUSE LAUNDRY - LEE'S SUMMIT
TUES 29 JULY
LEE'S SUMMIT MO 64063

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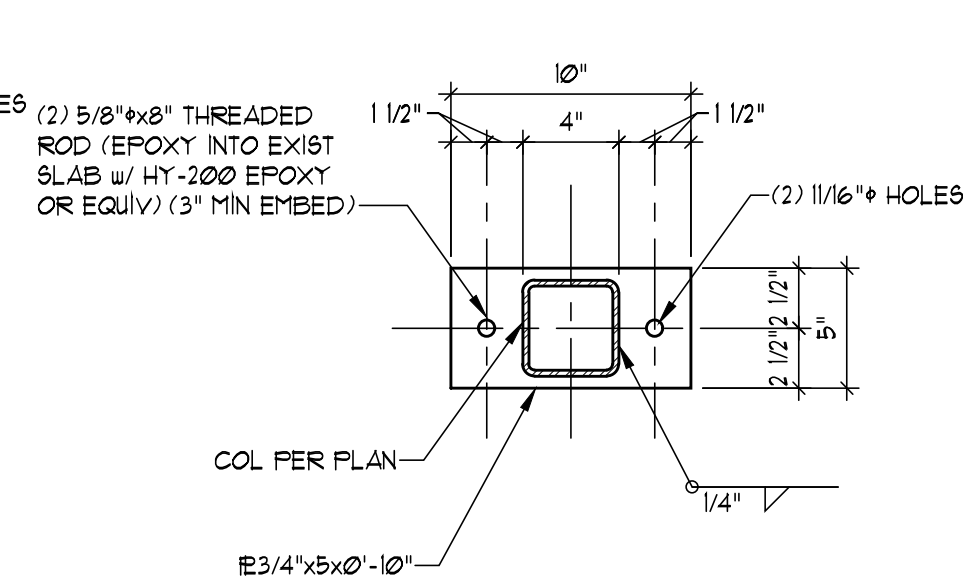
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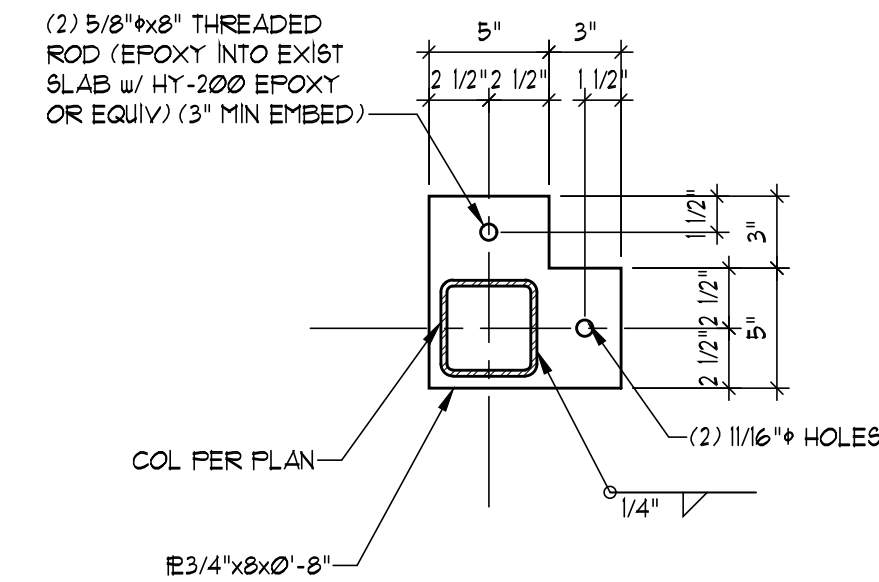
FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



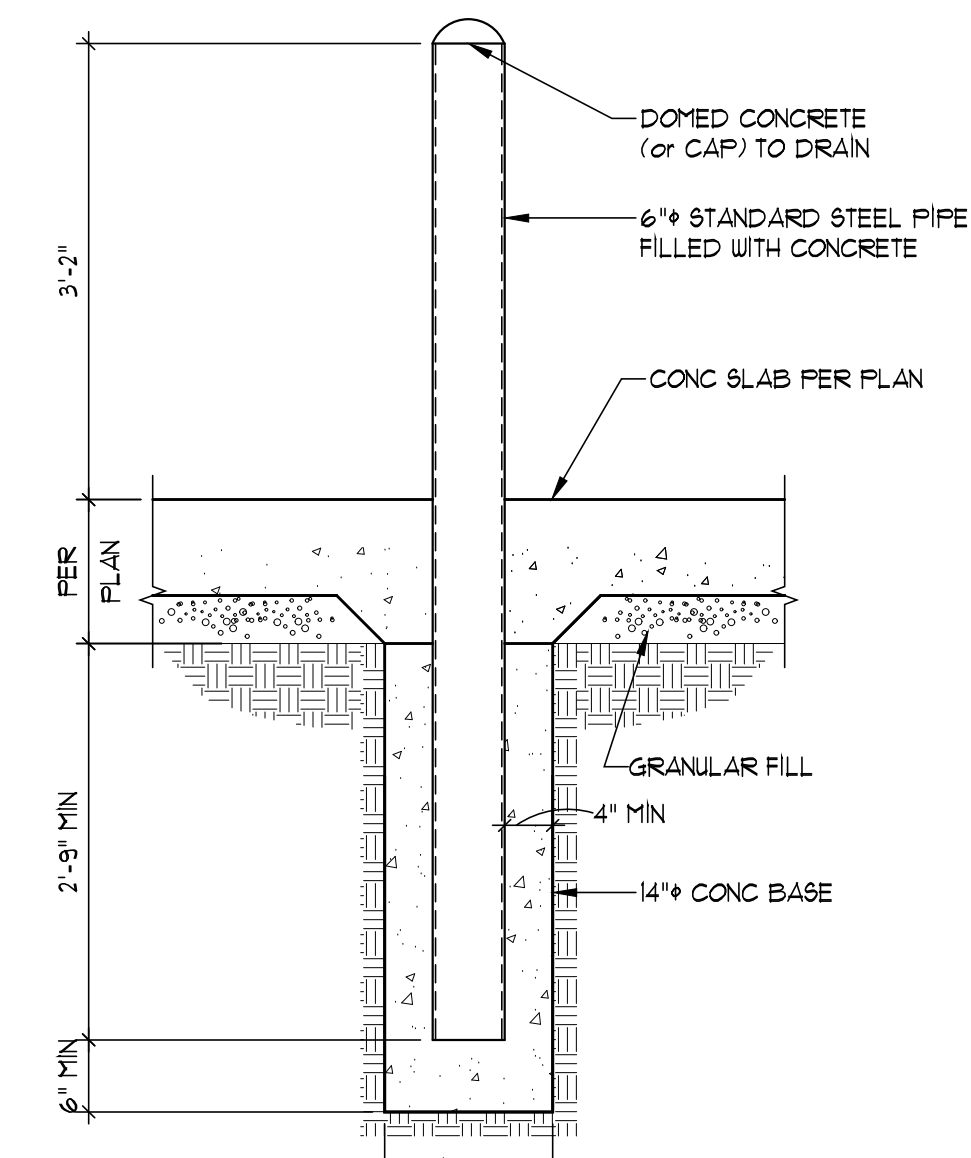
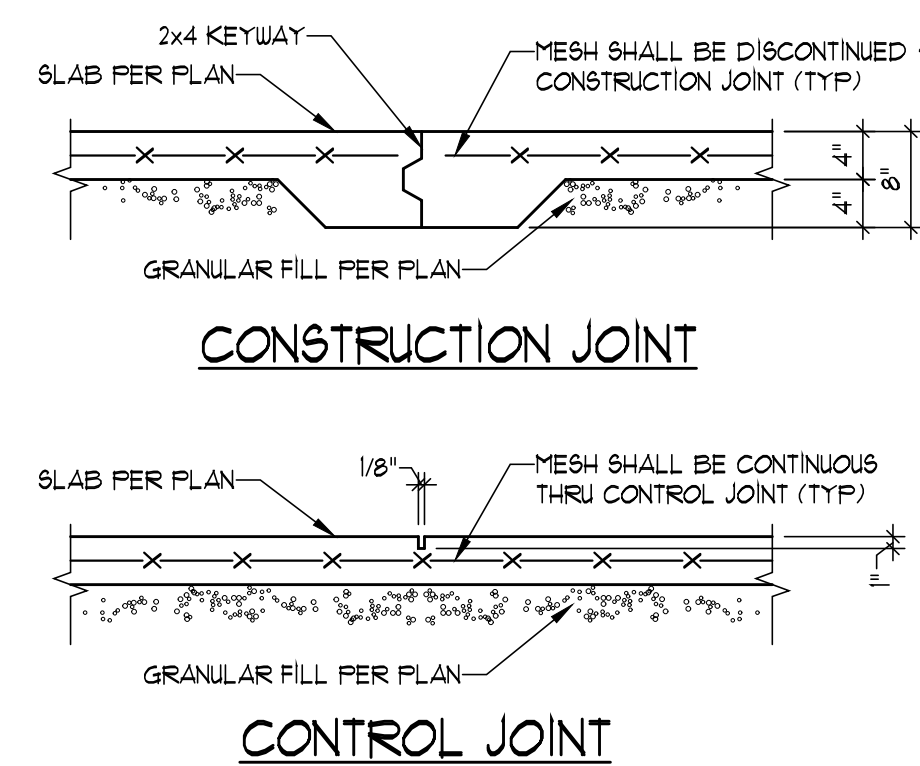
BASE PLATE TYPE #1
SCALE: 1 1/2" = 1'-0"



BASE PLATE TYPE #2
SCALE: 1 1/2" = 1'-0"



BASE PLATE TYPE #3
SCALE: 1 1/2" = 1'-0"



TYPICAL 6" PIPE BOLLARD
SCALE: 3/4" = 1'-0"

STATE OF MISSOURI

CHAD L. STREIBER

REGISTERED PROFESSIONAL ENGINEER

2/1/2021

ISSUE DATE:

2/1/2021

REVISIONS:

JOB NO:

3532-2001

DRAWN BY:

JUH

DESIGNED BY:

CHS

VAN DERKRIEN & ASSOCIATES, P.A.

1011 KING STREET, SUITE 130

OVERLAND PARK, KS 66210

TEL: 913.241.1100 FAX: 913.241.1101

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FOUNDATION PLAN FOR:

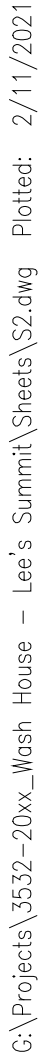
WASH HOUSE LAUNDRY - LEE'S SUMMIT

TITLE SHEET 29 JULY

LEE'S SUMMIT 10644063

SHEET NO:

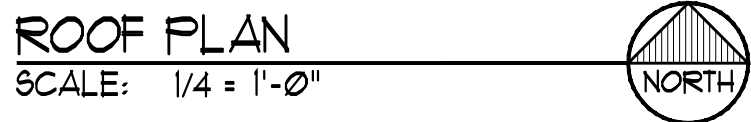
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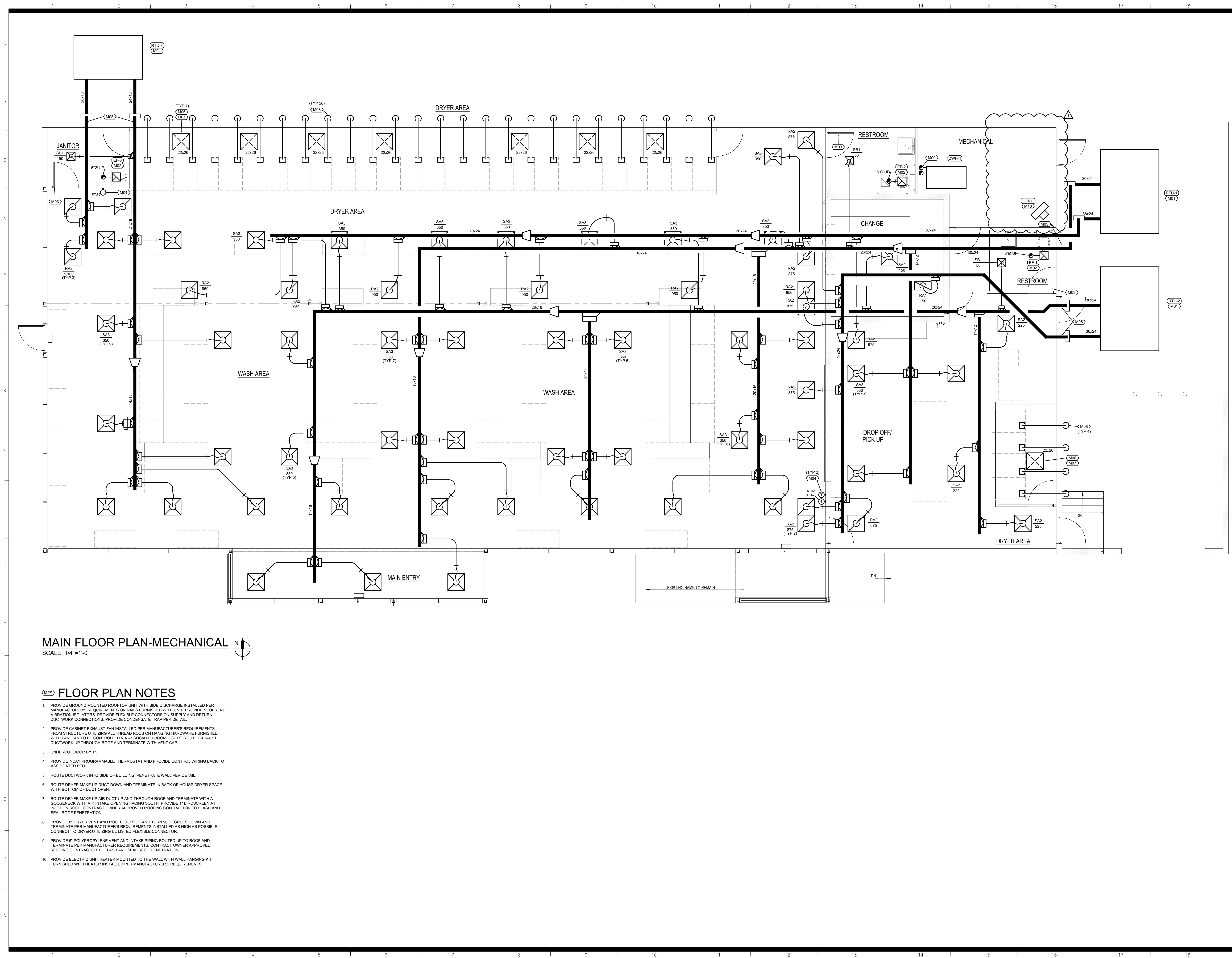
Van Deurzen and Associates, P.A.
1101 KING STREET, SUITE 130
OVERLAND PARK, KS 66210
(913) 451-6305 FAX (913) 451-1021
WEB PAGE: WWW.VANDEURZENASOCC.COM
E-MAIL: VDA@VANDEURZENASOCC.COM

LEE'S SUMMIT MO64063

S2



[illegible]



MAIN FLOOR PLAN-MECHANICAL
SCALE: 1/4"=1'-0"

FLOOR PLAN NOTES

1. PROVIDE GROUND MOUNTED ROOFTOP UNIT WITH SIDE DISCHARGE INSTALLED PER MANUFACTURER'S REQUIREMENTS ON RAILS FURNISHED WITH UNIT. PROVIDE NEOPRENE VIBRATION ISOLATORS. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK CONNECTIONS. PROVIDE CONDENSATE TRAP PER DETAIL.
2. PROVIDE CABINET EXHAUST FAN INSTALLED PER MANUFACTURER'S REQUIREMENTS FROM STRUCTURE UTILIZING ALL THREAD RODS ON HANGING HARDWARE FURNISHED WITH FAN. FAN TO BE CONTROLLED VIA ASSOCIATED ROOM LIGHTS. ROUTE EXHAUST DUCTWORK UP THROUGH ROOF AND TERMINATE WITH VENT CAP.
3. UNDERCUT DOOR BY 1".
4. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT AND PROVIDE CONTROL WIRING BACK TO ASSOCIATED RTU.
5. ROUTE DUCTWORK INTO SIDE OF BUILDING, PENETRATE WALL PER DETAIL.
6. ROUTE DRYER MAKE UP DUCT DOWN AND TERMINATE IN BACK OF HOUSE DRYER SPACE WITH BOTTOM OF DUCT OPEN.
7. ROUTE DRYER MAKE UP AIR DUCT UP AND THROUGH ROOF AND TERMINATE WITH A GOOSENECK WITH AIR INTAKE OPENING FACING SOUTH. PROVIDE 1" BIRDSCREEN AT INLET ON ROOF. CONTRACT OWNER APPROVED ROOFING CONTRACTOR TO FLASH AND SEAL ROOF PENETRATION.
8. PROVIDE 8" DRYER VENT AND ROUTE OUTSIDE AND TURN 90 DEGREES DOWN AND TERMINATE PER MANUFACTURER'S REQUIREMENTS INSTALLED AS HIGH AS POSSIBLE. CONNECT TO DRYER UTILIZING UL LISTED FLEXIBLE CONNECTOR.
9. PROVIDE 6" POLYPROPYLENE VENT AND INTAKE PIPING ROUTED UP TO ROOF AND TERMINATE PER MANUFACTURER REQUIREMENTS. CONTRACT OWNER APPROVED ROOFING CONTRACTOR TO FLASH AND SEAL ROOF PENETRATION.
10. PROVIDE ELECTRIC UNIT HEATER MOUNTED TO THE WALL WITH WALL HANGING KIT FURNISHED WITH HEATER INSTALLED PER MANUFACTURER'S REQUIREMENTS.

1730 Walnut Street
Kansas City, Missouri
64108
816.221.1411
Fax: 816.221.1429

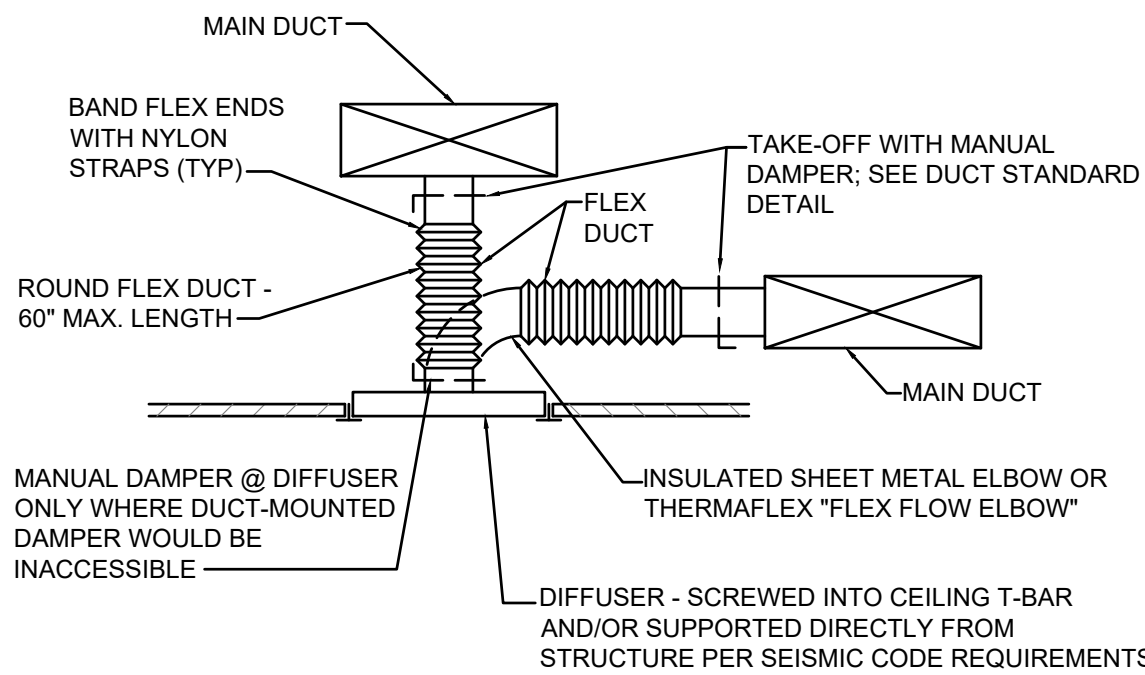
Fender
+ associates

Lankford

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Seal
STATE OF MISSOURI
GREGORY Y. FENDER
NUMBER
PE-4206237230
PROFESSIONAL ENGINEER
02/04/2021
COM: 2006031168

WASH HOUSE LAUNDRY – LEE'S SUMMIT
711 SE 291 HWY.
LEE'S SUMMIT, MO. 64063
Project Number: 20.6606.00
Date: 12/15/2020
Phase: Construction
Issued For: Permit
Drawn By: JSV
P.L.C.: BLH/GIF
Revision:
ADDENDUM 1
FEBRUARY 04, 2021
M1

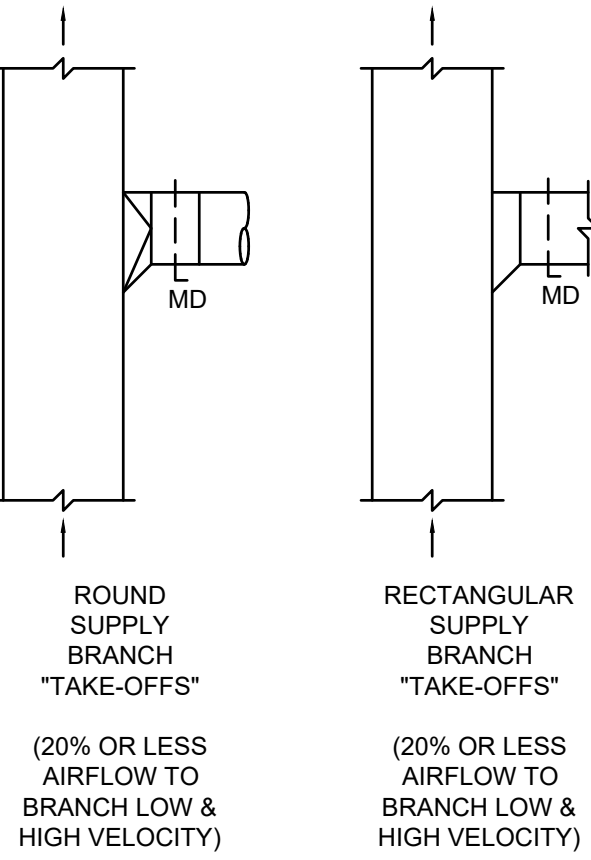
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NOTE: BRANCH DUCT RUNOUT TO DIFFUSER SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS OTHERWISE INDICATED ON PLAN.

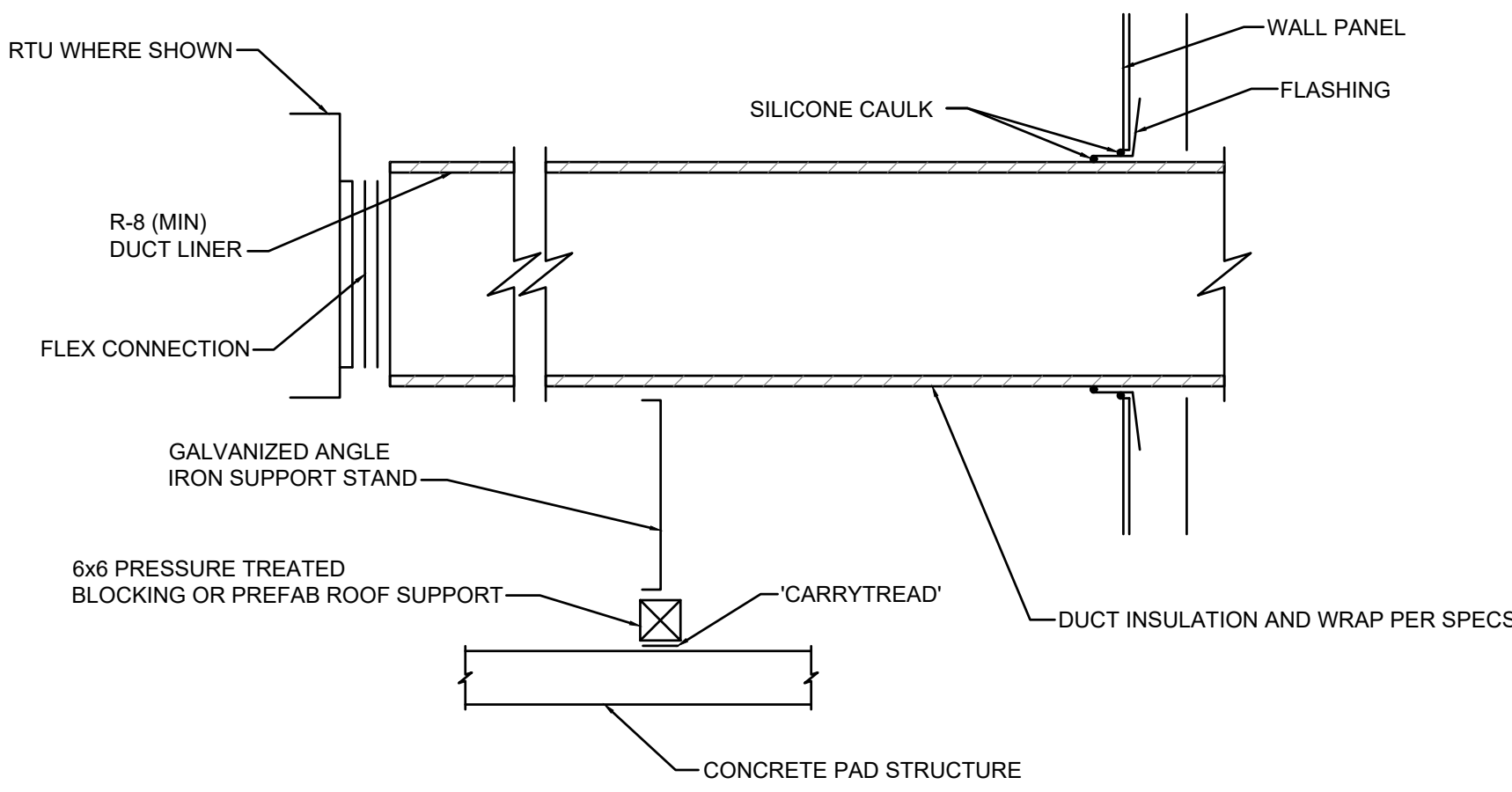
DIFFUSER DETAIL

NO SCALE



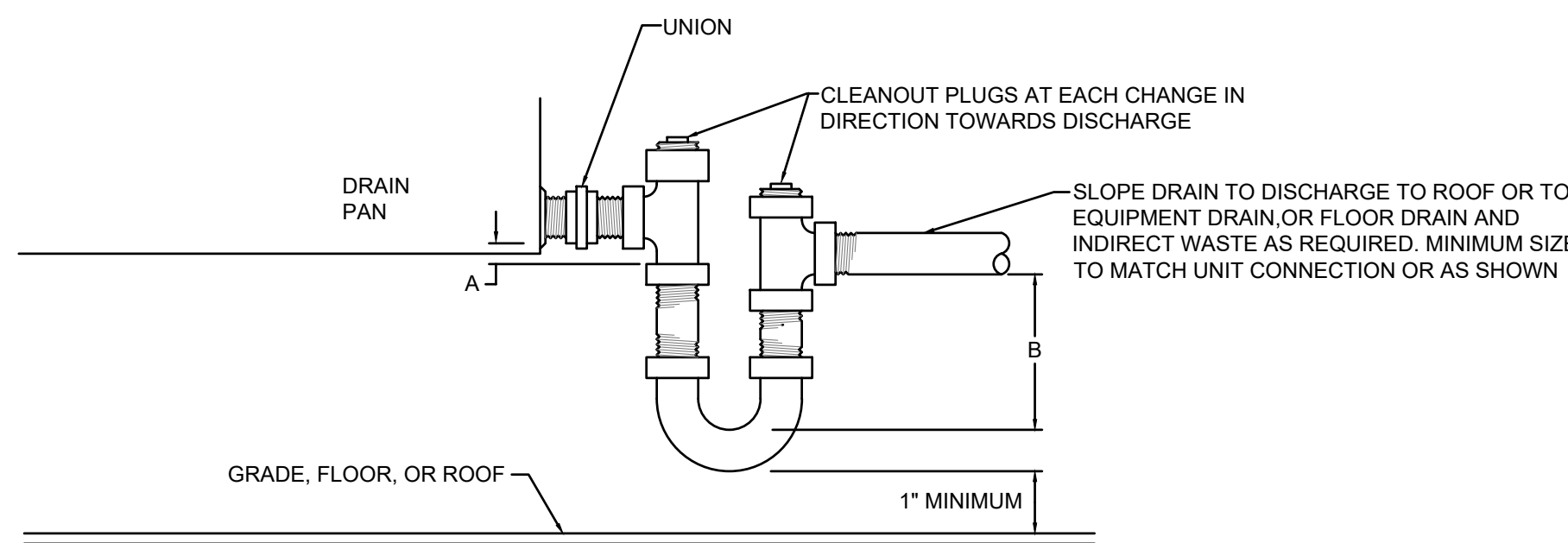
DUCT STANDARDS

NO SCALE



DUCT WALL PENETRATION DETAIL

NO SCALE



DIM. 'A'	DIM. 'A'	DIM. 'B'
BLOW THRU COIL	1"	FAN DISCHARGE STATIC PRESSURE + 1"
DRAW THRU COIL	FAN SUCTION STATIC PRESSURE + 1"	2-1/2"

NOTE: MINIMUM 'A' OR 'B' DIMENSION SHALL BE NOT LESS THAN 1".

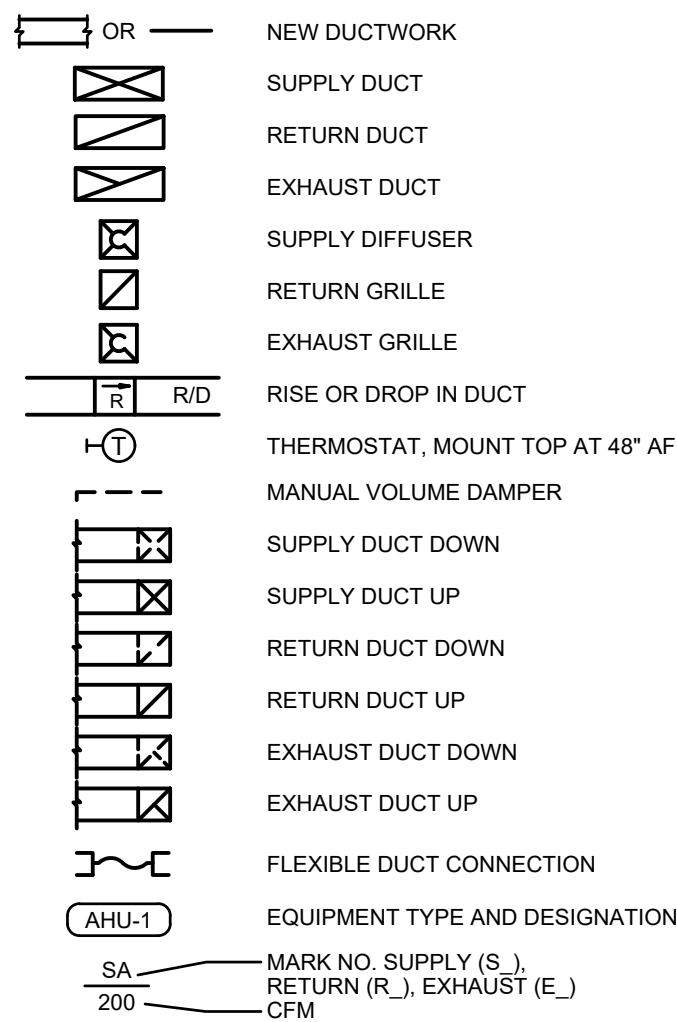
HVAC CONDENSATE TRAP DETAIL

NO SCALE

GENERAL NOTES (TYPICAL ALL SHEETS)

- MECHANICAL CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECTS AND/OR BUILDING OWNER REQUIREMENTS.
- COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- MECHANICAL CONTRACTOR SHALL AIR BALANCE ALL GRILLES TO CFMS SHOWN ON PLANS.
- ALL DUCTWORK, DIFFUSERS, TERMINAL UNITS, ETC. ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
- INSTALL ELASTOMERIC JOINT SEALER AROUND ALL DUCTS, PIPES, ETC. PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL DUCTS, PIPES, ETC. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL TEMPERATURE CONTROL WORK WITH BUILDING OWNER. BUILDING SYSTEM SHALL REMAIN OPERATIONAL AT ALL TIMES.
- UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
- REPLACE EXISTING THERMOSTATS/SENSORS WITH NEW. THERMOSTAT COVERS SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED. THERMOSTATS/SENSORS SHALL BE INSTALLED AND CALIBRATED PRIOR TO TEST AND BALANCE. INTEGRATE NEW DIGITAL THERMOSTATS/SENSORS INTO THE EXISTING BUILDING ENERGY MANAGEMENT SYSTEM AS REQUIRED.

MECHANICAL SYMBOLS



ROOFTOP UNIT SCHEDULE

MARK NO.	MANUFACTURER	MODEL	AIRFLOW	MIN O.A. CFM	EER	SUPPLY FAN					COOLING					HEATING-GAS					ELECTRICAL			NOTES		
						EXT. S.P. (IN.W.G.)	FAN HP	DRIVE TYPE	FAN TYPE	RPM	AMB (°F)	E.D.B. (°F)	E.W.B. (°F)	NOMINAL TONS	TOTAL MBH	SENS. MBH	STAGES	E.D.B. (°F)	L.D.B. (°F)	INPUT MBH	OUTPUT MBH	STAGES	VOLT		ø	HZ
RTU-1	TRANE	YH4240	6475	750	11	1.5	5	BELT	FC	739	95	80	67	20	248.45	195.1	2	70	93	250	200	2	208	3	60	1,2,3,4
RTU-2	TRANE	YH4240	6400	750	11	1.5	5	BELT	FC	739	95	80	67	20	248.45	195.1	2	70	93	250	200	2	208	3	60	1,2,3,4
RTU-3	TRANE	YHC120	3200	400	12.4	1.5	2.75	BELT	FC	1461	95	80	67	10	113.9	94.1	2	70	98	150	120	2	208	3	60	1,2,3,4

- NOTES: 1. PROVIDE WITH DISCONNECT SWITCH, 14" CURB FOR GROUND MOUNTING, COTTONWOOD FILTERS AND HAIL GUARDS.
2. PROVIDE WITH DRY BULB ECONOMIZER, POWERED RELIEF AND HOT GAS REHEAT.
3. PROVIDE WITH 2" MERV 8 FILTERS.
4. UNIT TO BE CONFIGURED FOR SIDE DISCHARGE.

FAN SCHEDULE

MARK NO.	MANUFACTURER	MODEL	SERVES	TYPE	AIRFLOW (CFM)	S.P. (IN.W.G.)	FAN TYPE	SONES	RPM	DRIVE	ELECTRICAL			HP WATTS	NOTES
											VOLT	ø	HZ		
EF-1	GREENHECK	SPA50-80-VG	RESTROOM	CABINET	75	0.3	CENT	2	887	DIRECT	120	1	60	1/20	1,2
EF-2	GREENHECK	SPA50-80-VG	RESTROOM	CABINET	75	0.3	CENT	2	887	DIRECT	120	1	60	1/20	1,2
EF-3	GREENHECK	SPA50-90-VG	JANITOR	CABINET	75	0.3	CENT	2	887	DIRECT	120	1	60	1/20	1,2

- NOTES: 1. PROVIDE WITH DISCONNECT SWITCH, SPEED CONTROLLER, INTEGRAL GRILLE, HANGING HARDWARE AND BACKDRAFT DAMPER.
2. FAN TO BE CONTROLLED WITH LIGHTS.

UNIT HEATER SCHEDULE

MARK NO.	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	EAT (°F)	LENGTH (IN)	HEATING (ELEC.) INPUT (KW)	ELECTRICAL			NOTES
								VOLT	ø	HZ	
UH-1	BERKO	MLH	UNIT HEATER	350	50	N/A	5	208	1	60	1

- NOTES: 1. PROVIDE WITH DISCONNECT SWITCH, WALL MOUNTING HARDWARE AND INTEGRAL THERMOSTAT.

*HEATING KW IS NET CAPACITY AT VOLTAGE AND PHASE INDICATED.

DIFFUSER SCHEDULE

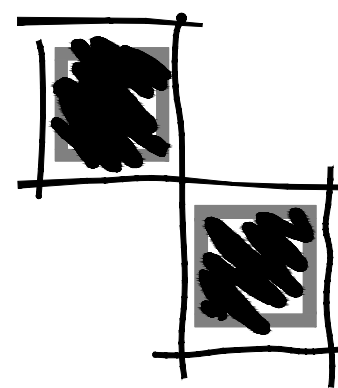
MARK	MANUFACTURER	MODEL	PAGE SIZE (IN.)	NECK SIZE (IN.)	SLOT WIDTH (IN.)	NO. OF SLOTS	FRAME TYPE*	FINISH	NOTES
SA1	PRICE	SPD	24x24	8	-	-	LAY-IN	WHITE	-
SA2	PRICE	SPD	24x24	10	-	-	LAY-IN	WHITE	-
SA3	PRICE	SPD	24x24	12	-	-	LAY-IN	WHITE	-
SB1	PRICE	SPD	12x12	6	-	-	SURFACE	WHITE	-
RA1	PRICE	PDDR	24x12	22x12	-	-	LAY-IN	WHITE	-
RA2	PRICE	PDDR	24x24	14x14	-	-	LAY-IN	WHITE	-

- NOTES: 1. -

*CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING DIFFUSERS.

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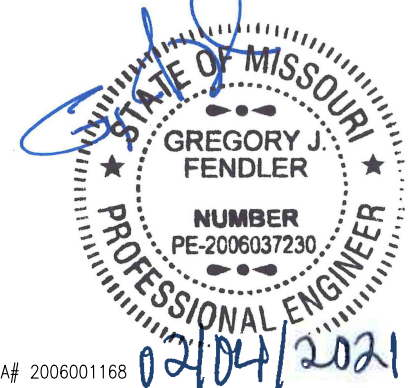
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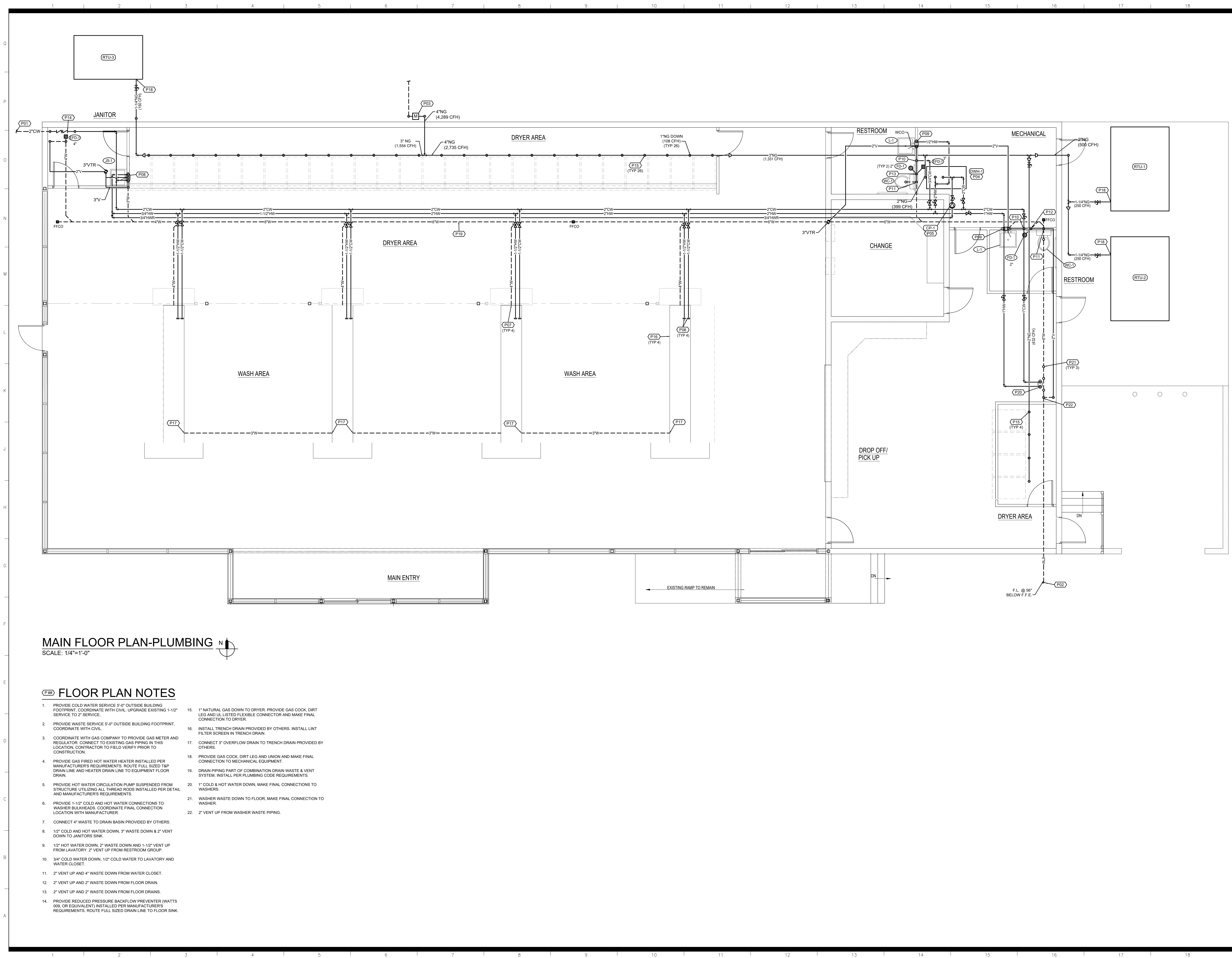
WASH HOUSE LAUNDRY - LEE'S SUMMIT

711 SE 291 HWY.
LEE'S SUMMIT, MO. 64063

Project Number: 20.6606.00

Date: 12/15/2020
Phase: Construction
Issued For: Permit
Drawn By: JSV
P.L.C.: BLH/GIF

Revision
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FLOOR PLAN NOTES

1. PROVIDE COLD WATER SERVICE 5'-0" OUTSIDE BUILDING FOOTPRINT. COORDINATE WITH CIVIL. UPGRADE EXISTING 1-1/2" SERVICE TO 2" SERVICE.
2. PROVIDE WASTE SERVICE 5'-0" OUTSIDE BUILDING FOOTPRINT. COORDINATE WITH CIVIL.
3. COORDINATE WITH GAS COMPANY TO PROVIDE GAS METER AND REGULATOR. CONNECT TO EXISTING GAS PIPING IN THIS LOCATION. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.
4. PROVIDE GAS FIRED HOT WATER HEATER INSTALLED PER MANUFACTURER'S REQUIREMENTS. ROUTE FULL SIZED T&P DRAIN LINE AND HEATER DRAIN LINE TO EQUIPMENT FLOOR DRAIN.
5. PROVIDE HOT WATER CIRCULATION PUMP SUSPENDED FROM STRUCTURE UTILIZING ALL THREAD RODS INSTALLED PER DETAIL AND MANUFACTURER'S REQUIREMENTS.
6. PROVIDE 1-1/2" COLD AND HOT WATER CONNECTIONS TO WASHER BULKHEADS. COORDINATE FINAL CONNECTION LOCATION WITH MANUFACTURER.
7. CONNECT 4" WASTE TO DRAIN BASIN PROVIDED BY OTHERS.
8. 1/2" COLD AND HOT WATER DOWN, 3" WASTE DOWN AND 2" VENT DOWN TO JANITORS SINK.
9. 1/2" HOT WATER DOWN, 2" WASTE DOWN AND 1-1/2" VENT UP FROM LAVATORY. 2" VENT UP FROM RESTROOM GROUP.
10. 3/4" COLD WATER DOWN, 1/2" COLD WATER TO LAVATORY AND WATER CLOSET.
11. 2" VENT UP AND 4" WASTE DOWN FROM WATER CLOSET.
12. 2" VENT UP AND 2" WASTE DOWN FROM FLOOR DRAIN.
13. 2" VENT UP AND 2" WASTE DOWN FROM FLOOR DRAINS.
14. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER (WATTS 009, OR EQUIVALENT) INSTALLED PER MANUFACTURER'S REQUIREMENTS. ROUTE FULL SIZED DRAIN LINE TO FLOOR SINK.
15. 1" NATURAL GAS DOWN TO DRYER. PROVIDE GAS COCK, DIRT LEG AND UL LISTED FLEXIBLE CONNECTOR AND MAKE FINAL CONNECTION TO DRYER.
16. INSTALL TRENCH DRAIN PROVIDED BY OTHERS. INSTALL LINT FILTER SCREEN IN TRENCH DRAIN.
17. CONNECT 3" OVERFLOW DRAIN TO TRENCH DRAIN PROVIDED BY OTHERS.
18. PROVIDE GAS COCK, DIRT LEG AND UNION AND MAKE FINAL CONNECTION TO MECHANICAL EQUIPMENT.
19. DRAIN PIPING PART OF COMBINATION DRAIN WASTE & VENT SYSTEM. INSTALL PER PLUMBING CODE REQUIREMENTS.
20. 1" COLD & HOT WATER DOWN, MAKE FINAL CONNECTIONS TO WASHERS.
21. WASHER WASTE DOWN TO FLOOR, MAKE FINAL CONNECTION TO WASHER.
22. 2" VENT UP FROM WASHER WASTE PIPING.

1730 Walnut Street
Kansas City, Missouri
64108

Fender

816.221.1411
Fax: 816.221.1429

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WASH HOUSE LAUNDRY – LEE'S SUMMIT

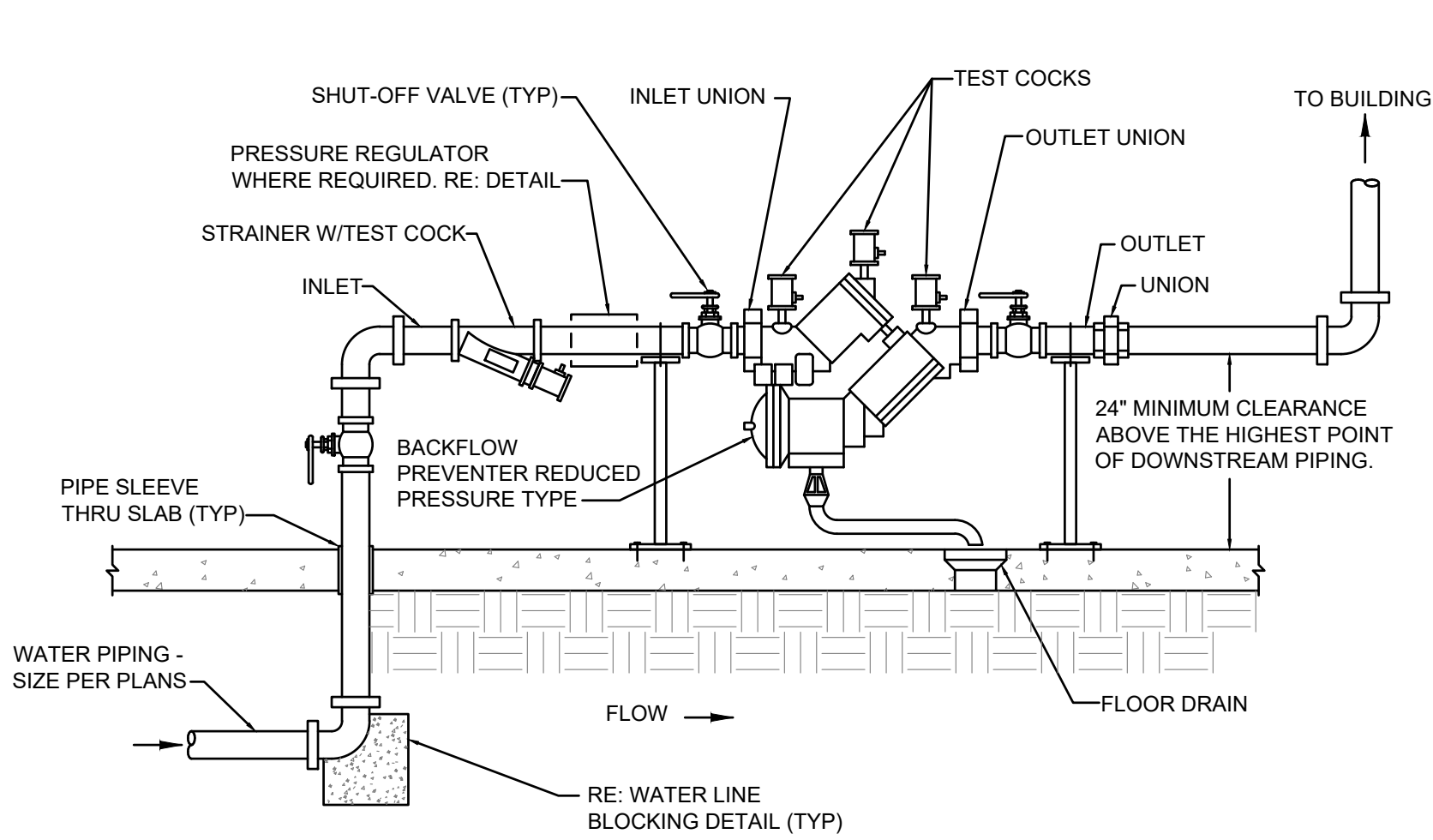
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LEE'S SUMMIT, MO. 64063

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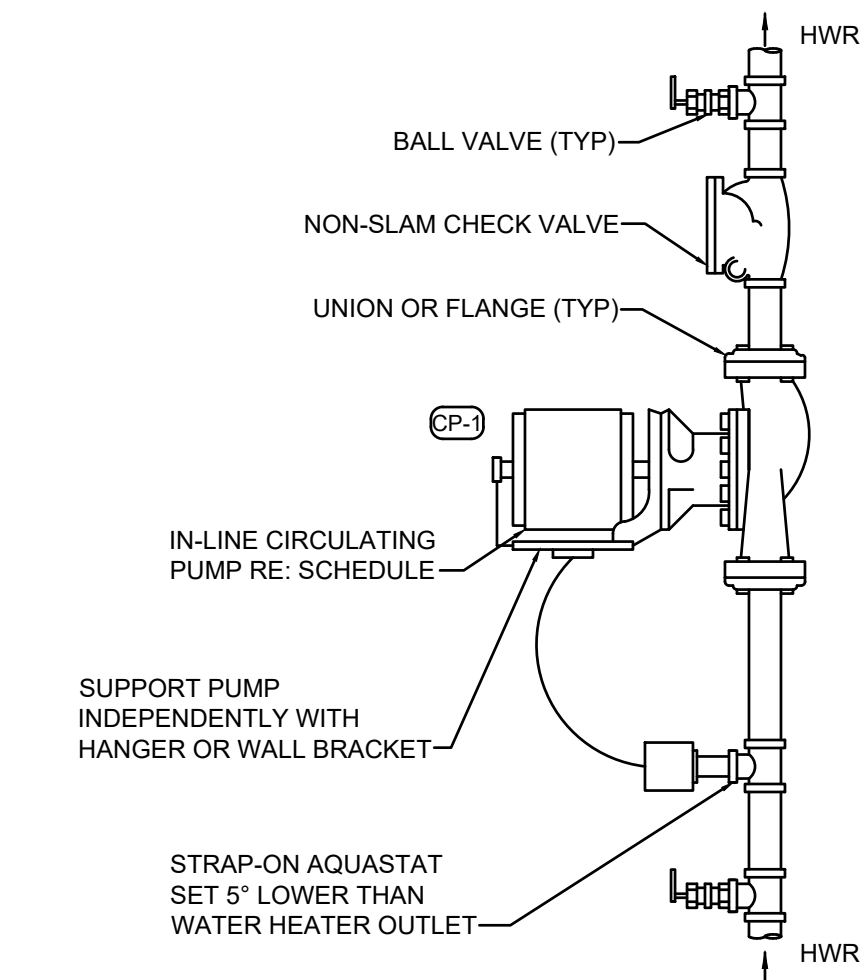
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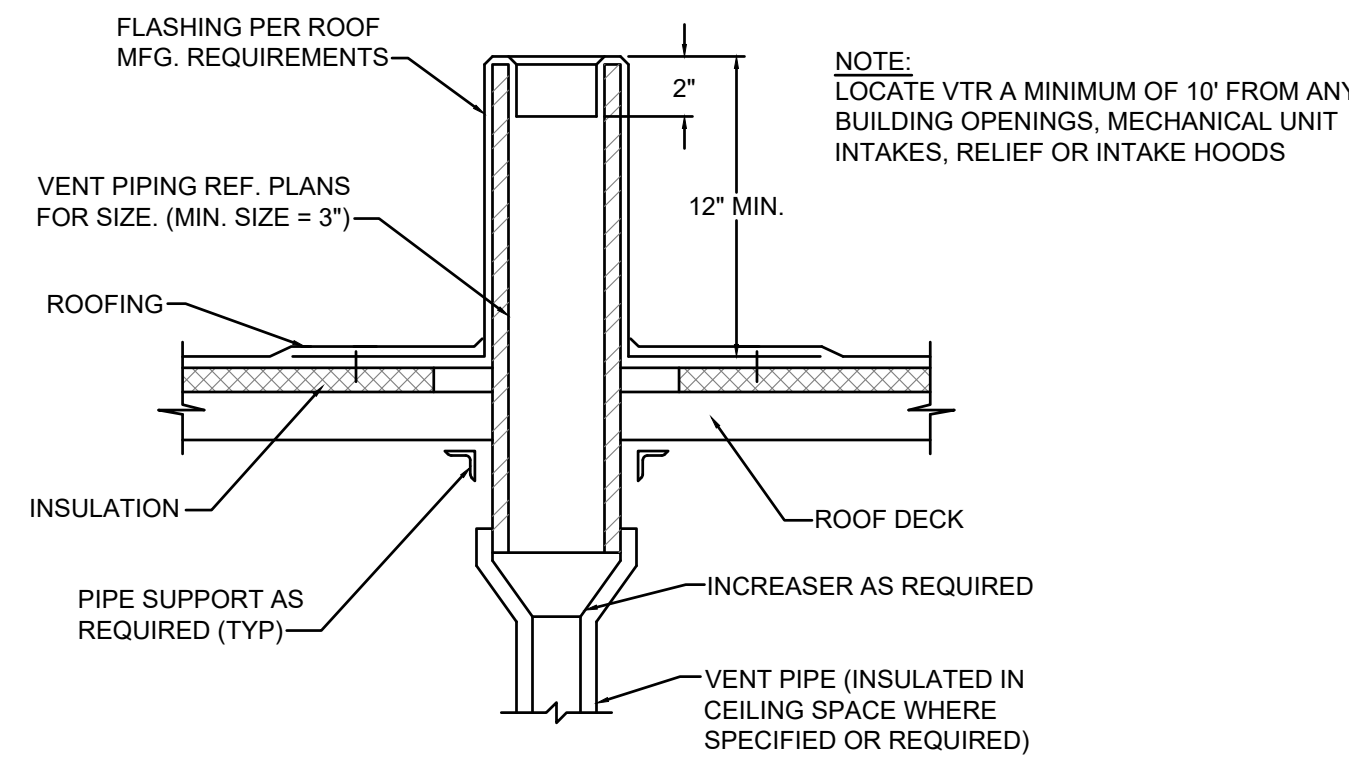
- NOTES:
1. PROVIDE PRESSURE REGULATOR, SET TO 75 PSI WHERE SOURCE PRESSURE EXCEEDS 80 PSI. INSTALL DOWNSTREAM OF BACKFLOW PREVENTER OUTLET. RE: DETAIL.
 2. ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT CONDITIONS. INSTALL SO BFP CAN BE SERVICED AND TESTED IN ACCORDANCE W/ ALL RULES & REGULATIONS OF LOCAL AUTHORITIES.
 3. ROUTE DRAIN AS INDICATED ON PLANS.
 4. SUPPORT AS REQUIRED FROM SLAB.



INTERIOR BACKFLOW PREVENTER DETAIL
NO SCALE

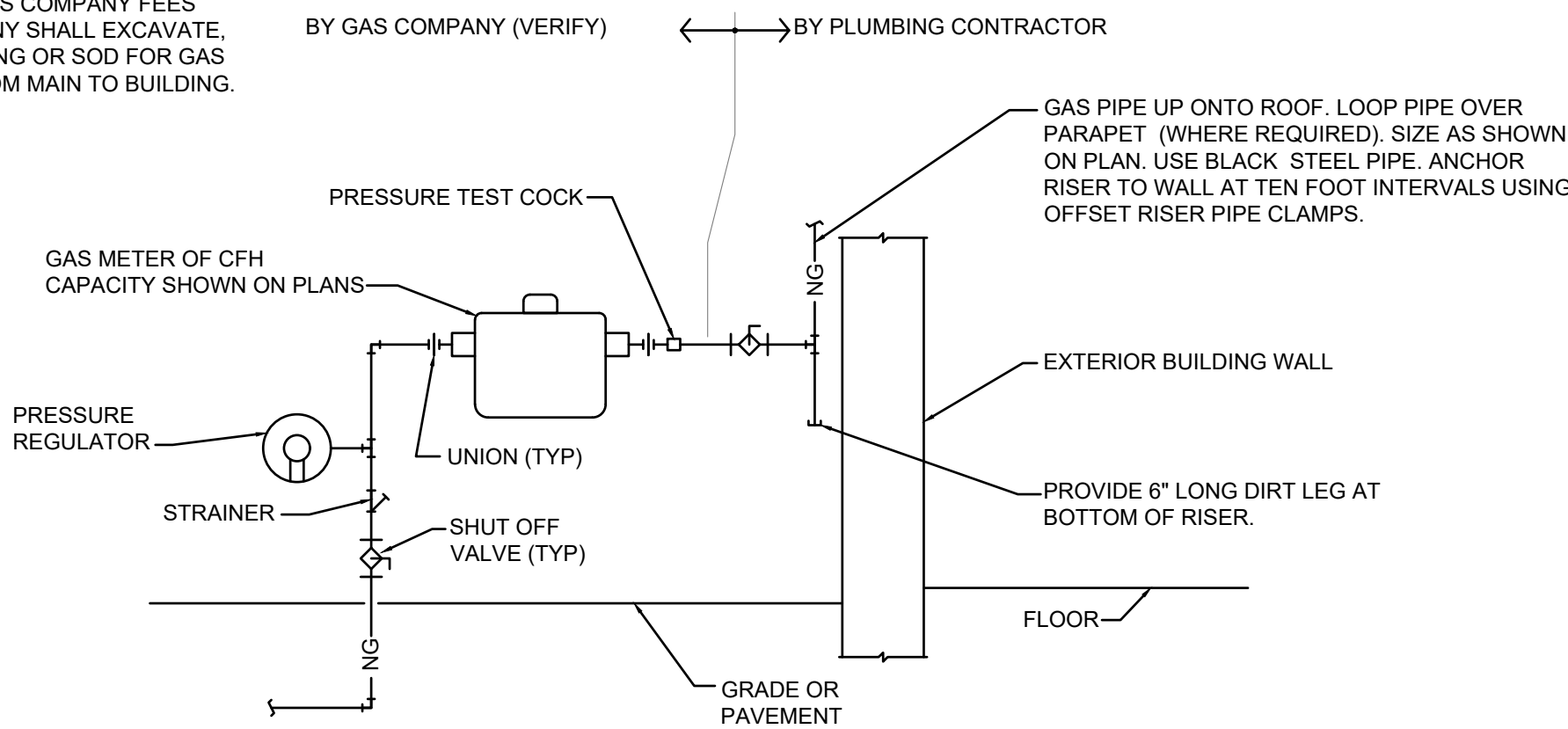


CIRCULATING PUMP DETAIL
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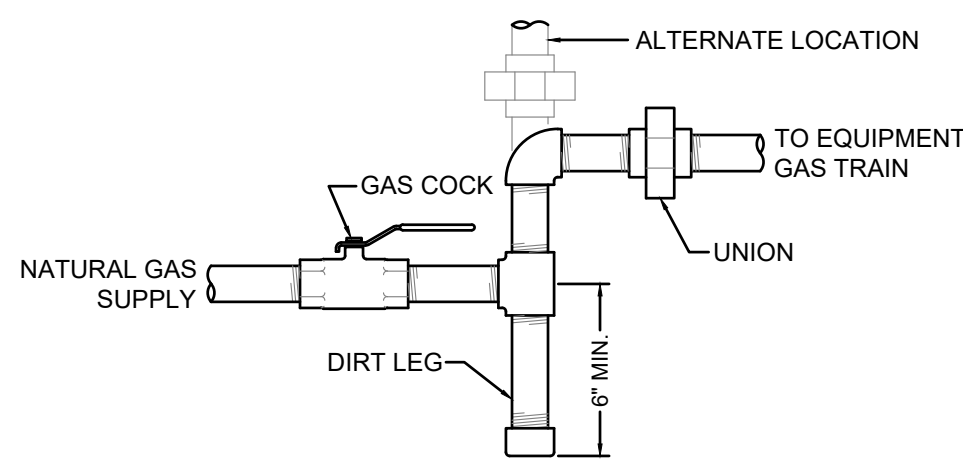


VENT THRU ROOF DETAIL
NO SCALE

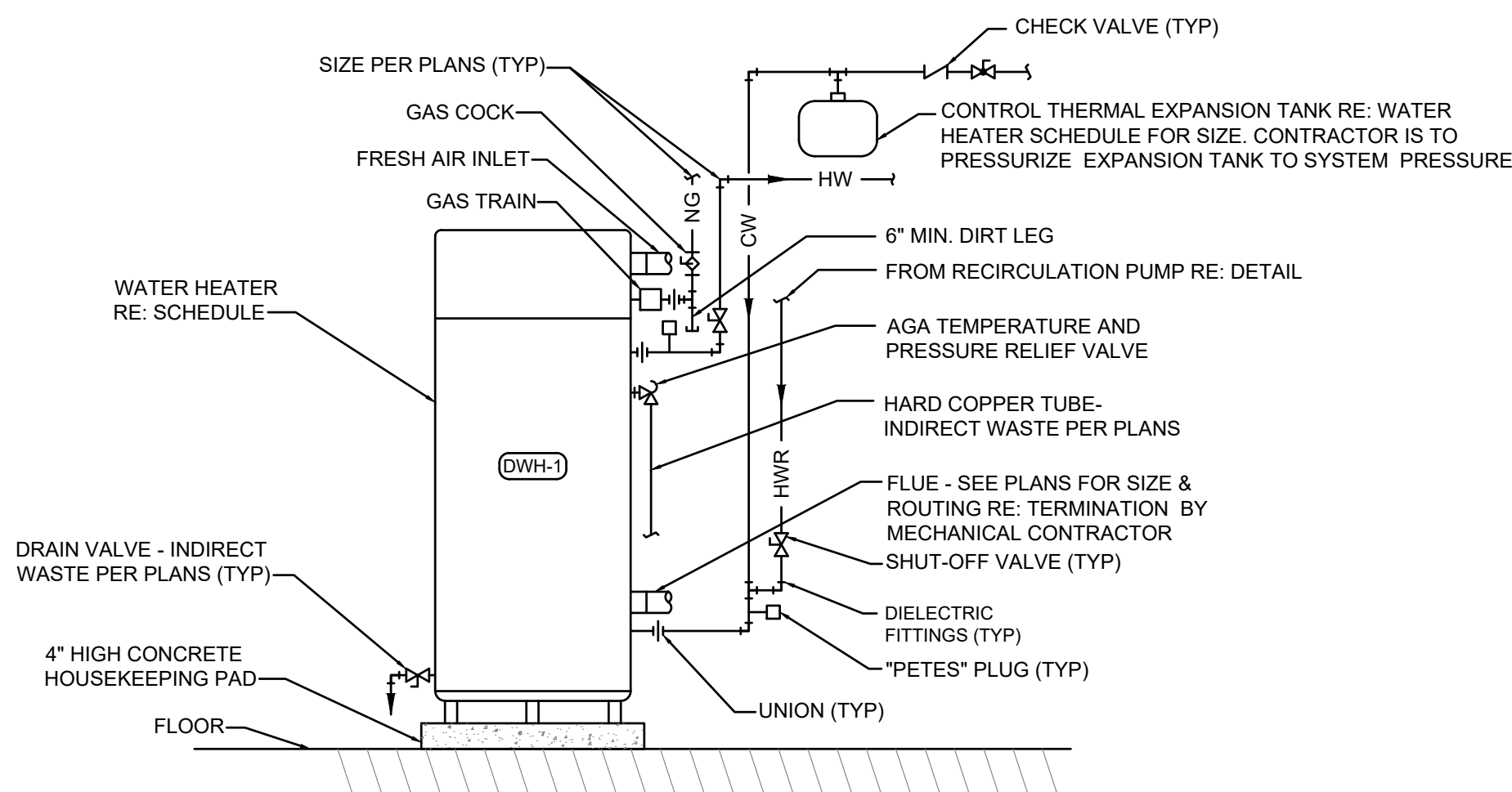
NOTE:
VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY. INSTALL OTHER UTILITIES MINIMUM TEN FEET FROM GAS LINE. PLUMBING CONTRACTOR SHALL PAY ALL GAS COMPANY FEES FOR INSTALLATION. GAS COMPANY SHALL EXCAVATE, BACKFILL, AND REPAIR ANY PAVING OR SOD FOR GAS SERVICE LINE INSTALLATION FROM MAIN TO BUILDING.



GAS SERVICE DETAIL
NO SCALE



GAS EQUIPMENT CONNECTION DETAIL
NO SCALE



SEALED COMBUSTION GAS WATER HEATER DETAIL
NO SCALE WITH RECIRCULATION PUMP

WASH HOUSE LAUNDRY – LEE'S SUMMIT

711 SE 291 HWY.
LEE'S SUMMIT, MO. 64063

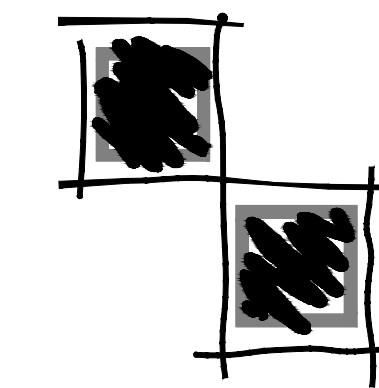
Project Number:	20.6606.00
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P.L.C.:	BLH/GIF

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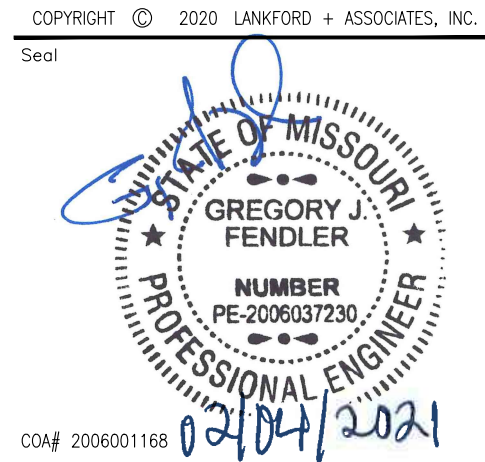
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PLUMBING FIXTURE SCHEDULE								
MARK NO.	FIXTURE TYPE	MANUFACTURER	MODEL NO.	DESCRIPTION	CONNECTION SIZE			
					CW	HW	WASTE	VENT
WC-1	WATER CLOSET (ADA)	AMERICAN-STANDARD	215AA.004 (LEFT HANDLE) 418BA.005 (RIGHT HANDLE) "CADET PRO"	FLOOR MOUNTED FLUSH TANK, WHITE VITREOUS CHINA, HIGH EFFICIENCY (1.6 GPF), ELONGATED POWER WASH BOWL, FULLY GLAZED 2" TRAP WAY, CLOSE-COUPLED TANK, 16-1/2" RM HEIGHT. ACCESSORIES: CHROME KROSSCOT WHITE OVEN FRONT SEAT LESS COVER WITH SELF SUSTAINING CHECK HINGES, BOLTS AND CAPS, LOOSE KEY ANGLE STOP AND CHROME-PLATED RISER. NOTE: HANDLE TO BE ON WIDE SIDE OF FIXTURE.	1/2"	-	4"	2"
L-3	LAVATORY (ADA)	AMERICAN-STANDARD	0355.012 (4" CENTERS) "LUCERNE"	VITREOUS CHINA, 20" X 16", FRONT OVERFLOW, INTEGRAL BACK. CHICAGO FAUCETS MODEL 802-XKA BOP FAUCET WITH CERAMIC OPERATING CARTRIDGE, 4" CENTERS, 4" INTEGRAL SPOUT, LEVER HANDLES. ACCESSORIES: PROVIDE LEGNARD 170-LF LEAD-FREE BRONZE THERMOSTATIC MIXING VALVE WITH 0.25 GPM MINIMUM FLOW RATE, INTEGRAL CHECK VALVES, DISCHARGE SET AT 1/5 F, MOUNTED DOWNSTREAM OF FIXTURE STOPS, WITH HOT AND COLD WATER PIPED TO VALVE, TEMPERED AND COLD WATER TO LAVATORY. CHICAGO FAUCETS MODEL 327-XGP GRID DRAIN, 1-1/4" X 1-1/2" 17 GA. SGM-CAST BRASS P-TRAP WITH CLEANOUT, CHROME-PLATED RISERS WITH LOOSE KEY ANGLE STOPS AND J.R. SMITH CONCEALED ARM LAVATORY SUPPORT. PROVIDE WITH FULLY MOLDED FLEXIBLE VINYL INSULATION KIT COVER TRAP, SUPPLIES AND STOPS, TRUEBRO 6Z LAV GUARD. NOTE: MOUNT FIXTURE RM 34" ABOVE FINISHED FLOOR.	1/2"	1/2"	1-1/2"	1-1/2"
JS-1	JANITOR SINK	STERN-WILLIAMS	MTB-2424	SIZE 24" X 24" X 10", TERRAZZO SERVICE SINK WITH CAST BRASS DRAIN, STAINLESS STEEL STRAINER, 3" DRAIN CONNECTION. CHICAGO FAUCETS MODEL 897-CCP WITH QUATURN OPERATING CARTRIDGE, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, 3/4" MALE HOSE THREAD OUTLET, 3/8" LEVER HANDLES, FLANGED ADJUSTABLE SUPPLY ARM AND INTEGRAL SUPPLY STOPS AND CHECK VALVES. ACCESSORIES: V-75 EXTRUDED VINYL BUMPER GUARDS ON EXPOSED SIDES, T-35 3/8" RUBBER HOSE WITH STAINLESS STEEL WALL BRACKET.	1/2"	1/2"	3"	2"
FD-1	FLOOR DRAIN	J.R. SMITH	2005YA-NB	GENERAL PURPOSE DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD, ROUND NICKEL BRONZE STRAINER, AND SEEPAGE OPENINGS. OUTLET SIZE PER PLANS. PROVIDE WITH SQUARE GRATE WHERE DRAIN IS INSTALLED IN TILE FLOORS. NOTE: PROVIDE WITH TRAP PRIMER CONNECTION WHERE REQUIRED BY LOCAL CODE OR AS INDICATED ON DRAWINGS.	-	-	2"	1-1/2"
EFD-1	EQUIPMENT FLOOR DRAIN	J.R. SMITH	2210Y	MEDIUM CAPACITY, MEDIUM DUTY DUCO CAST IRON BODY, SEGMENT BUCKET AND GRATE, NO HUB OUTLET. PROVIDE WITH 359I OVAL FUNNEL WHERE DRAIN RECEIVES INDIRECT WASTE.	-	-	2"	1-1/2"

PLUMBING PUMP SCHEDULE

MARK NO.	MANUFACTURER	MODEL	USE	TYPE	FLOW (GPM)	HEAD (FT.)	RPM	ELECTRICAL				NOTES
								VOLT	ø	HZ	HP	
CP-1	BELL & GOSSETT	PL30B	RECIRC	INLINE	3	25	2450	120	1	60	1/12	1
NOTES: 1. -												

WATER HEATER SCHEDULE (GAS TANKLESS)

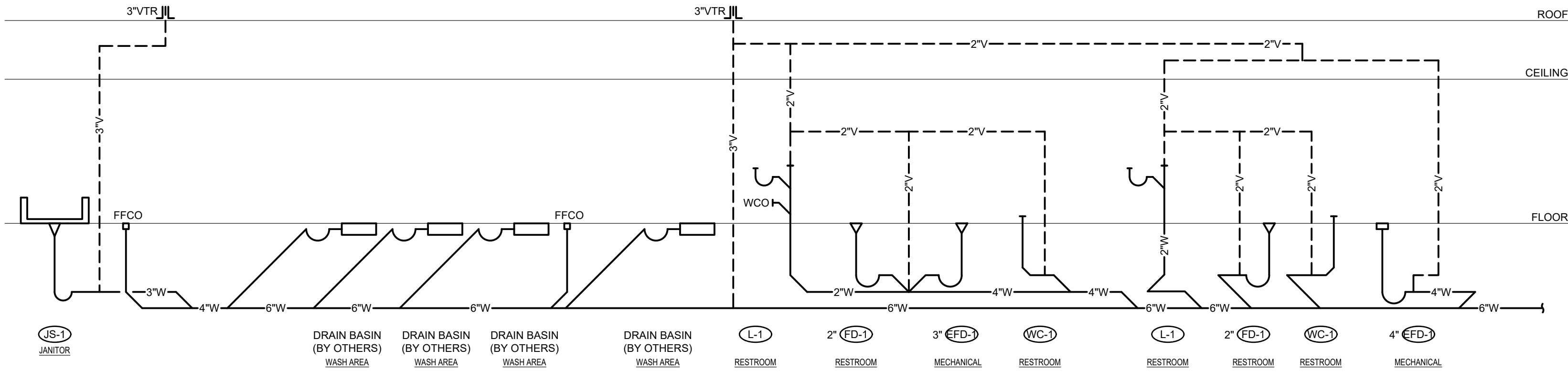
MARK NO.	MANUFACTURER	MODEL NO.	MINIMUM ACTIVATION FLOW, GPM	RECOVERY (GPM @ 80 F)	INPUT MBH	ELECTRICAL			NOTES
						VOLT	ø	HZ	
DWH-1	HAMILTON	HWDG 395-180	0.4	584	399	120	1	60	1,2
NOTES: 1. FLOOR MOUNTED, HIGH EFFICIENCY DIRECT VENTED CONDENSING, FORCED COMBUSTION, MODULATING FIRE, 5-1 TURNDOWN, ELECTRONIC IGNITION, MAXIMUM FLOW RATE PER MODULE 9.8 GPM. 2. PROVIDE WITH ISOLATION AND RELIEF VALVES, GAS TRAIN, CONTROLLER WITH WATER FLOW SENSOR, ELECTRONIC WATER AND BURNER CONTROL, CORD AND PLUG. 3. PROVIDE WITH AMTROL ST-12 C EXPANSION TANK.									

GENERAL NOTES (TYPICAL ALL SHEETS)

- A. PLUMBING CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- B. CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
- C. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- D. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL PIPES PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL PIPES. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- E. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL EQUIPMENT BY OTHERS. VERIFY CONNECTIONS SIZES AND REQUIREMENTS.
- F. PIPING ROUTED BELOW COUNTER IN CABINETS SHALL BE ROUTED AS NOTED. NOT TO INTERFERE WITH DRAWERS, SHELVES, EQUIPMENT, ETC., AND SUPPORT FROM BACK WALL OF CABINET.
- G. PLUMBING CONTRACTOR SHALL PROVIDE PRO-SET SYSTEMS 'TRAP GUARD' IN ALL FLOOR DRAIN TRAPS WITHIN PROJECT SCOPE OF WORK.
- H. UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.

PLUMBING SYMBOLS

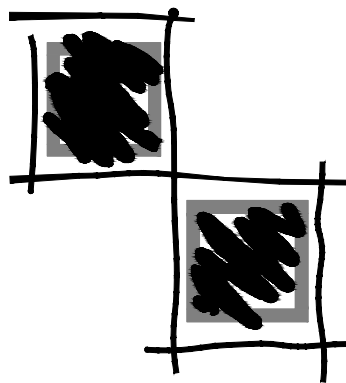
- EXISTING TO REMAIN
- NEW PIPING
- FLOW ARROW
- CW COLD WATER
- HW HOT WATER
- HW-R HOT WATER RETURN
- NG NATURAL GAS
- V SANITARY VENT ABOVE GROUND/FLOOR
- V-- SANITARY VENT BELOW GROUND/FLOOR
- W-- SANITARY WASTE BELOW GROUND/FLOOR
- W GAS SHUT-OFF COCK
- CV CHECK VALVE
- PT PRESSURE & TEMPERATURE RELIEF VALVE
- STV STRAINER WITH BLOW DOWN VALVE
- SOV SHUT OFF VALVE
- ILP IN-LINE PUMP
- U UNION
- F FLANGE CONNECTION
- OR FLOOR DRAIN OR EQMT FLOOR DRAIN
- P PIPE DROP/PIPE RISE
- B BOTTOM OUTLET TEE
- T TOP OUTLET TEE
- FFCO FINISHED FLOOR CLEANOUT
- VTR SANITARY VENT THROUGH ROOF
- R CONCENTRIC REDUCER
- DWH-1 EQUIPMENT TYPE AND DESIGNATION
- PLUMBING FIXTURE DESIGNATION
- ETR EXISTING TO REMAIN
- CONNECT TO EXISTING



WASTE AND VENT RISER DIAGRAM
NO SCALE

1730 Walnut Street
Kansas City, Missouri
64108

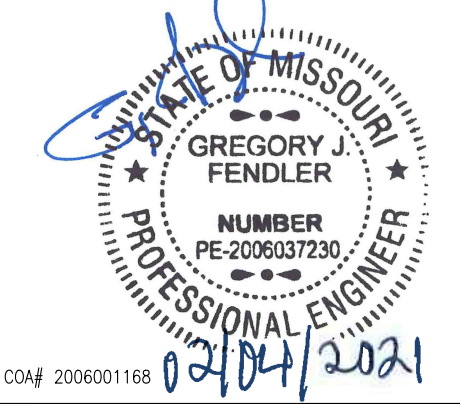
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02/04/2021

WASH HOUSE LAUNDRY – LEE'S SUMMIT

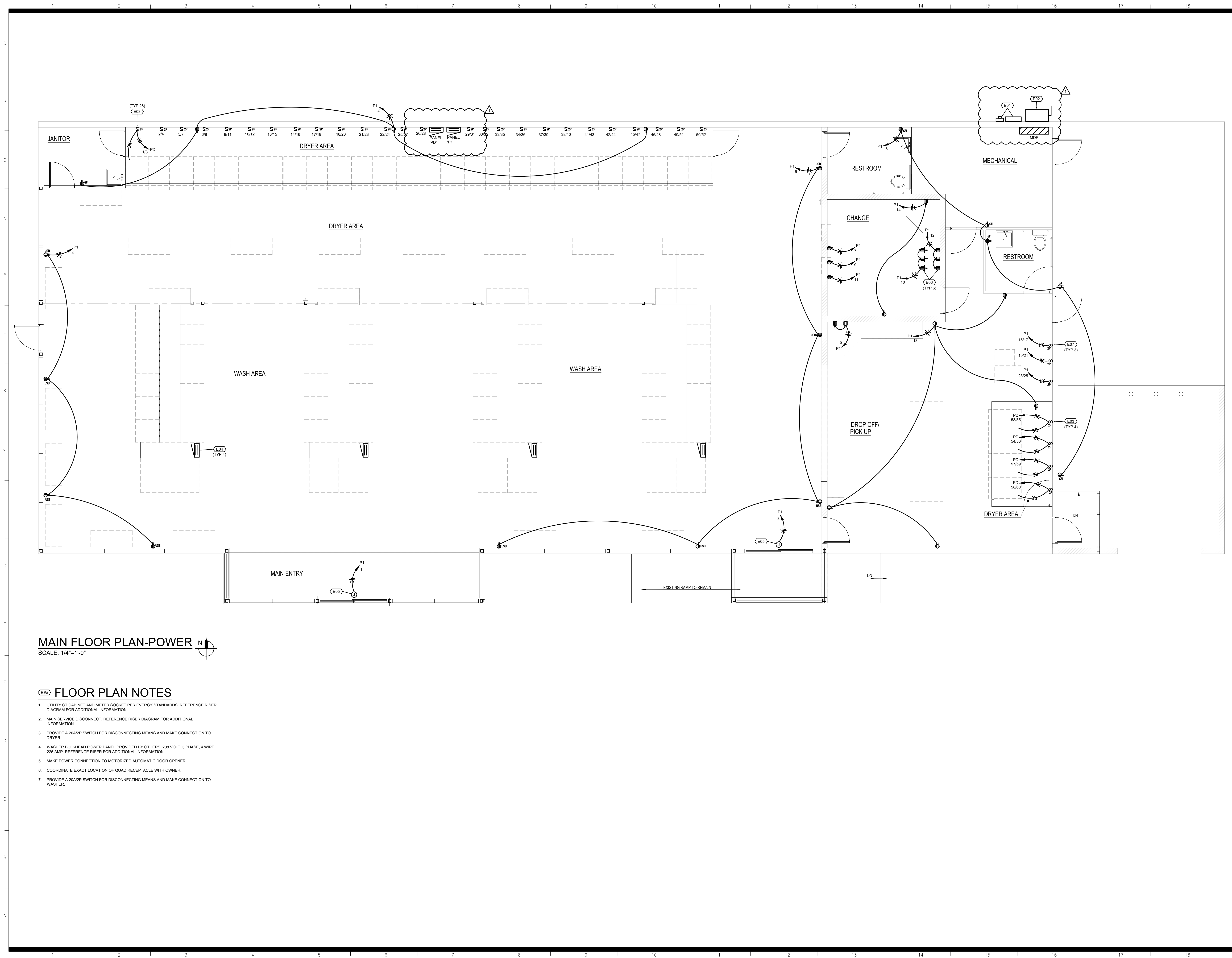
711 SE 291 HWY.
LEE'S SUMMIT, MO. 64063

Project Number: 20.6606.00

Date	12/15/2020
Phase	Construction
Issued For	Permit
Drawn By	JSV
P.L.C.	BLH/GIF

Revision	
△	
△	

P3



MAIN FLOOR PLAN-POWER
SCALE: 1/4"=1'-0"

FLOOR PLAN NOTES

- UTILITY CT CABINET AND METER SOCKET PER EVERGY STANDARDS. REFERENCE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- MAIN SERVICE DISCONNECT. REFERENCE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- PROVIDE A 20A/2P SWITCH FOR DISCONNECTING MEANS AND MAKE CONNECTION TO DRYER.
- WASHER BULKHEAD POWER PANEL PROVIDED BY OTHERS. 208 VOLT, 3 PHASE, 4 WIRE, 225 AMP. REFERENCE RISER FOR ADDITIONAL INFORMATION.
- MAKE POWER CONNECTION TO MOTORIZED AUTOMATIC DOOR OPENER.
- COORDINATE EXACT LOCATION OF QUAD RECEPTACLE WITH OWNER.
- PROVIDE A 20A/2P SWITCH FOR DISCONNECTING MEANS AND MAKE CONNECTION TO WASHER.

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Kansas City, Missouri
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Fax: 816.221.1429

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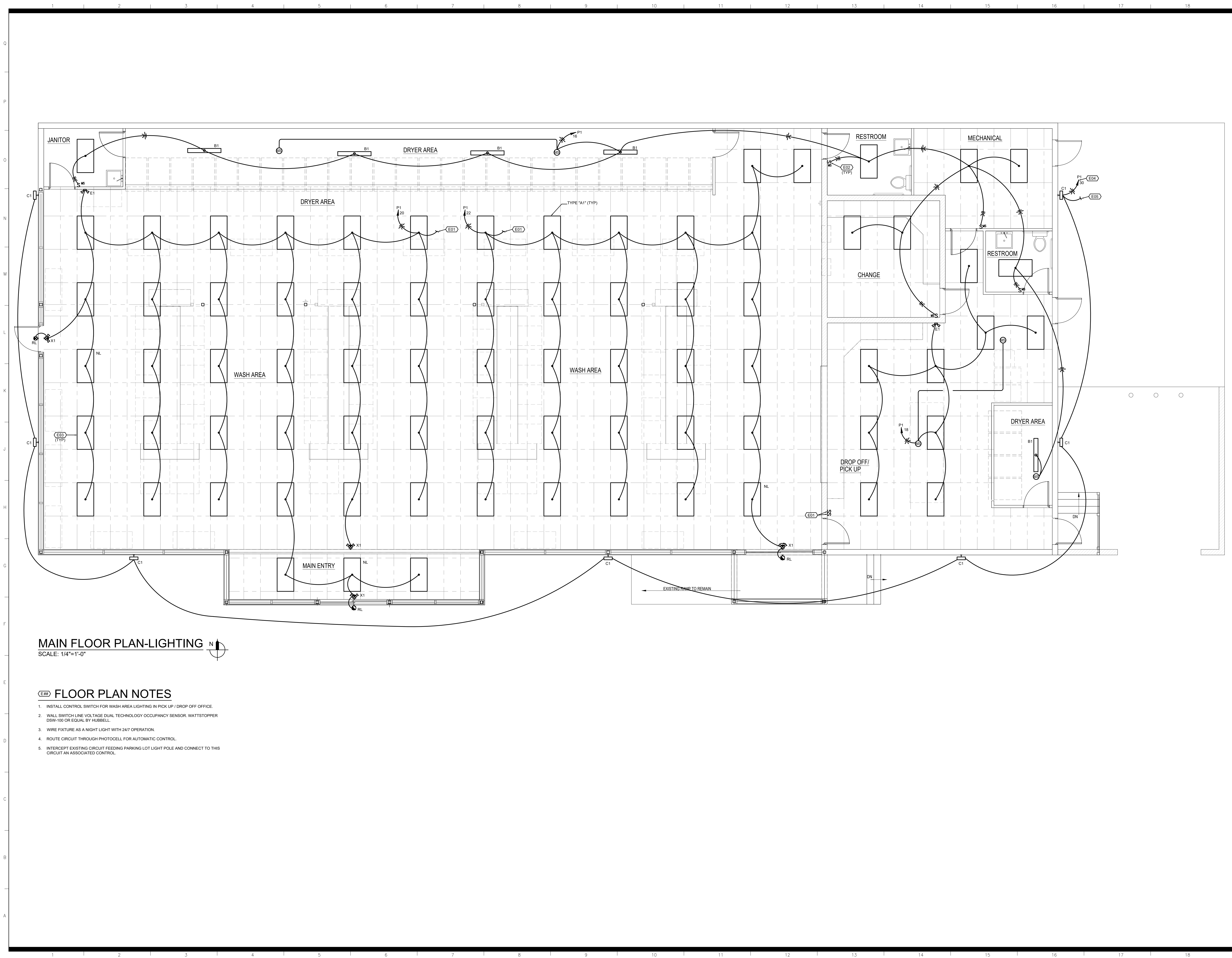
WASH HOUSE LAUNDRY – LEE'S SUMMIT

711 SE 291 HWY.
LEE'S SUMMIT, MO. 64063

Project Number:	20.6606.00
Date:	12/15/2020
Phase:	Construction
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Drawn By:	JSV
P.L.C.:	BLH/GIF

Revision
△ ADDENDUM 1 FEBRUARY 04, 2021

E1



MAIN FLOOR PLAN-LIGHTING
SCALE: 1/4"=1'-0"

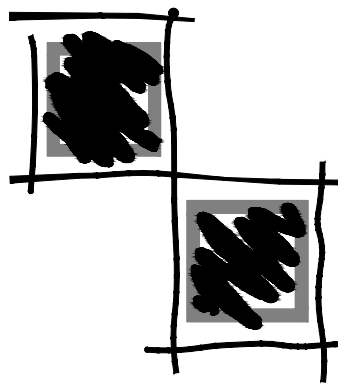
FLOOR PLAN NOTES

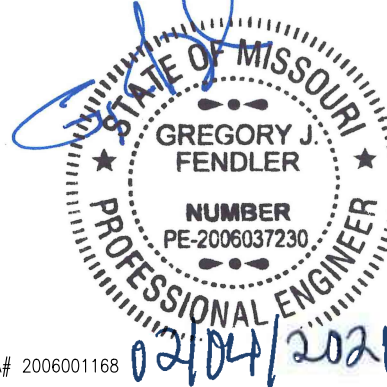
1. INSTALL CONTROL SWITCH FOR WASH AREA LIGHTING IN PICK UP / DROP OFF OFFICE.
2. WALL SWITCH LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR, WATTSTOPPER DSW-100 OR EQUAL BY HUBBELL.
3. WIRE FIXTURE AS A NIGHT LIGHT WITH 24/7 OPERATION.
4. ROUTE CIRCUIT THROUGH PHOTOCELL FOR AUTOMATIC CONTROL.
5. INTERCEPT EXISTING CIRCUIT FEEDING PARKING LOT LIGHT POLE AND CONNECT TO THIS CIRCUIT AN ASSOCIATED CONTROL.

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WASH HOUSE LAUNDRY – LEE'S SUMMIT

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P.L.C.:	BLH/GIF

Revision
△

E2

NOTES:

1. ALL WIRING SHALL BE TYPE THINWALL
2. MAIN GROUND RODS ARE TO BE LOCATED AT SERVICE ENTRANCE WITH SIZE AND QUANTITY PER SPECIFICATIONS.
3. EQUIPMENT GROUNDING CONDUCTORS SMALLER THAN 6 AWG SHALL BE PROTECTED PER NEC 250.124(C)

TO MAIN WATER PIPE. CONNECT AHEAD OF MAIN SHUT OFF VALVE

TO BUILDING STEEL

(3) COPPER CLAD GROUND ROD (TYP.), 5/8"x10"

GROUND WIRE TO PANELBOARD SIZE AS NOTED

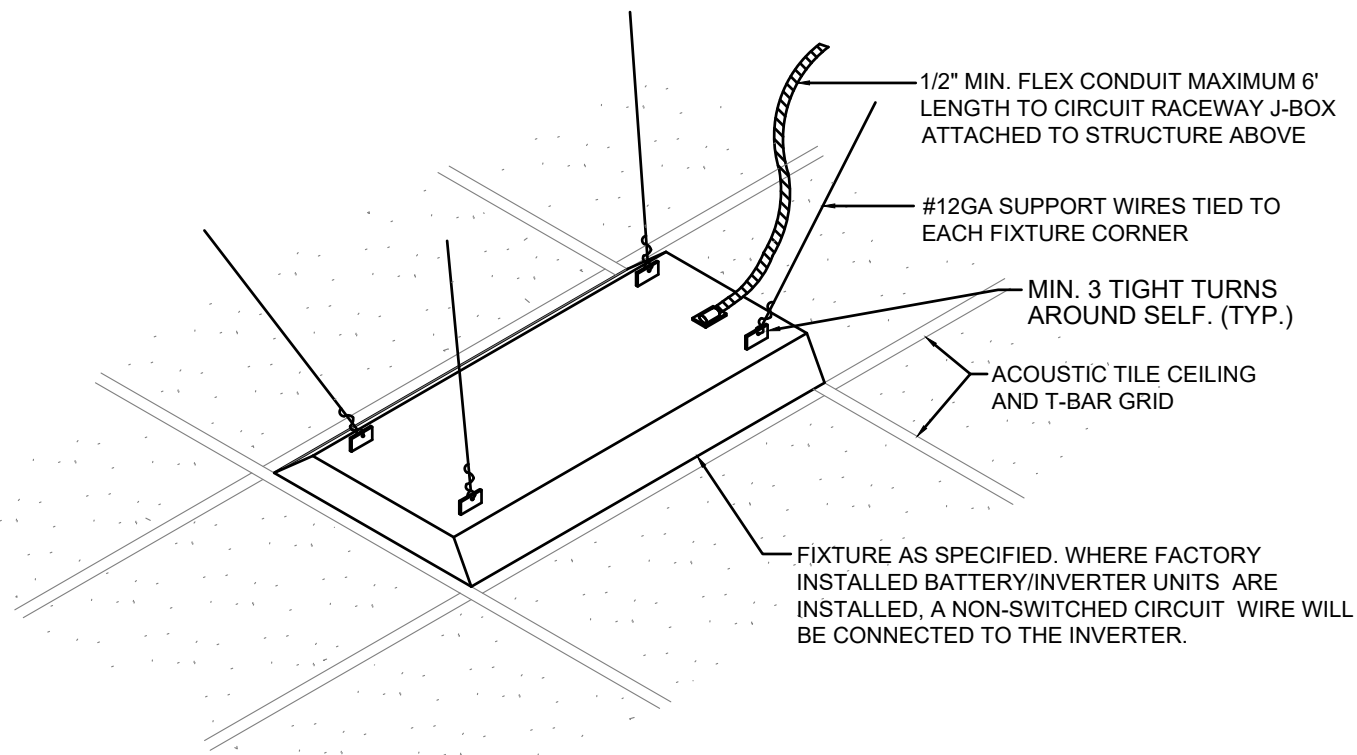
MAIN ELECTRICAL GROUND BUS

REBAR

CONCRETE ENCASED ELECTRODE (UFER) PER NEC 250-52(3)

MAIN SERVICE ENTRANCE GROUNDING DETAIL

NO SCALE



LIGHT FIXTURE MOUNTING AND BRACING DETAIL

NO SCALE

BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART*

OVERCURRENT PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGLE PHASE 2 WIRE + GND. CONDUIT SIZE	SINGLE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 4 WIRE + GND. CONDUIT SIZE
15	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
20	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
25	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
30	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
35	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
40	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
45	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
50	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
60	4 AWG	10 AWG	1"	1"	1"	1-1/4"
70	4 AWG	8 AWG	1"	1"	1"	1-1/4"
80	3 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
90	2 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
100	1 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"

* = UNLESS OTHERWISE NOTED ON THE DRAWINGS.

* = UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BRANCH CIRCUITS AND FEEDERS TO BE PROVIDED WITH A NEUTRAL WIRE.

* = ALL CONDUCTORS SIZED ON THE POWER RISER DIAGRAM OR IN BRANCH CIRCUIT CONDUCTOR TABLE ARE BASED ON 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE. CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH THE NEC IF 4 OR MORE CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE.

NEW PANELBOARD MDP SCHEDULE

SERVICE: 208/120 VOLT, 3 - PHASE, 4 - WIRE
AMP FRAME: 1200 AMP
MOUNTING: SURFACE
MAINS: MLO

RATING: 65000 A.I.C.
LOCATION: DRYER ROOM

REV NO.	NOTE NO.	CRT#	DESCRIPTION	BRKR P	AMP	LOAD KVA A	B	C	3PH	CRT#	DESCRIPTION	BRKR P	AMP	LOAD KVA A	B	C	3PH	NOTE NO.	REV NO.
1		1	PANEL P1	3	100				24.27	4	PANEL PD	3	400				98.48		
3		3								6									
5		5								8									
7		7	WASHER BULKHEAD	3	225				30.72	10	WASHER BULKHEAD	3	225				30.72		
9		9								12									
11		11								14									
13		13	WASHER BULKHEAD	3	225				30.72	16	WASHER BULKHEAD	3	225				30.72		
15		15								18									
17		17								20									
19		19	RTU-1	3	125				35.3	22	RTU-2	3	125				35.3		
21		21								24									
23		23								26									
25		25								28									
27		27	RTU-3	3	60				17.3	30	PROVISION	3							
29		29								32									
31		31								34	PROVISION	3							
33		33	PROVISION	3						36									
35		35								38									
37		37								40	PROVISION	3							
39		39	PROVISION	3						42									
41		41																	
TOTAL: 0 0 0 0 38.3125										TOTAL: 0 0 0 0 195.2									
										KVA / PHASE TOTAL: 0 0 0 0 338.3									
										AMP / PHASE TOTAL: 925.8 925.8 925.8									
										TOTAL CONNECTED LOAD: 333.53 KVA									
										TOTAL CONNECTED CURRENT: 925.79 AMPS									
										LIGHTS @ 125%: 0.00 KVA									
										RECEPTACLES @ 100%: 0.00 KVA									
										RECEPTACLES @ 50%: 0.00 KVA									
										LARGEST MOTOR LOAD @ 125%: 0.00 KVA									
										CONTINUOUS LOAD @ 125%: 0.00 KVA									
										OTHER AND NON-CONTINUOUS LOADS @ 100%: 333.53 KVA									
										TOTAL DEMAND LOAD: 333.53 KVA									
										POWER FACTOR: 0.95 % PF									
										TOTAL DEMAND CURRENT: 974.55 AMPS									

NOTES:

REV:

GENERAL NOTE:

CONDUCTOR & CONDUIT SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100 AMPS

NEW PANELBOARD P1 SCHEDULE

SERVICE: 208/120 VOLT, 3 - PHASE, 4 - WIRE
AMP FRAME: 225 AMP
MOUNTING: SURFACE
MAINS: MLO

RATING: 65000 A.I.C.
LOCATION: DRYER ROOM

REV NO.	NOTE NO.	LOAD CRT#	DESCRIPTION	BRKR	LOAD KVA				LOAD CRT#	DESCRIPTION	BRKR	LOAD KVA				NOTE NO.	REV NO.		
				P	AMP	A	B	C	3PH		P	AMP	A	B	C	3PH			
		1	AUTO DOOR	1	20	0.5				2	REC. JAN. DRYER	1	20	0.72					
		3	AUTO DOOR	1	20		0.5			4	REC. USB	1	20		0.72				
		5	REC. DO / PU DESK	1	20			0.72		6	REC. USB	1	20			0.72			
		7	REC. CHANGE ROOM	1	20	0.18				8	REC. MECHANICAL RESTROOMS	1	20	0.9					
		9	REC. CHANGE ROOM	1	20		0.18			10	REC. CHANGE ROOM QUAD	1	20		1.08				
		11	REC. CHANGE ROOM	1	20			0.18		12	REC. CHANGE ROOM QUAD	1	20			1.08			
		13	REC. DO / PU	1	20		0.72			14	REC. CHANGE ROOM DEKS	1	20	0.54					
		15	DO / PU T-450 WASHER	2	15		0.74			16	LTG. JAN. DRYER, RR, MECH. CH	1	20		0.59				
		17						0.74		18	LTG. DO / PU	1	20			0.45			
		19	DO / PU T-650 WASHER	2	15	0.74				20	LTG. WASH AREA	1	20	1.5					
		21					0.74			22	LTG. WASH AREA	1	20		1.4				
		23	DO / PU T-650 WASHER	2	15			0.74		24	DWH-1	2	20			0.34	1		
		25					0.74			26				0.34					
		27	CP-1	1	20		0.2			28	SHUNT TRIP								
		29	UH-1	2	30			2.5		30	LTG. EXTERIOR	1	20			0.63			
		31				2.5				32	SPARE	1	20						
		33	SPARE	1	20					34	SPARE	1	20						
		35	SPARE	1	20					36	SPARE	1	20						
		37	PROVISION							38	PROVISION								
		39	PROVISION							40	PROVISION								
		41	PROVISION							42	PROVISION								
TOTAL: 5.38 2.36 4.88 0										TOTAL: 4 3.79 3.22 0.0									
										KVA / PHASE TOTAL: 5.38 2.36 4.88 0.0									
										AMP / PHASE TOTAL: 78.2 51.3 67.5									
										TOTAL CONNECTED LOAD: 23.63 KVA									
										TOTAL CONNECTED CURRENT: 65.59 AMPS									
										LIGHTS @ 125%: 5.71 KVA									
										RECEPTACLES @ 100%: 7.02 KVA									
										RECEPTACLES @ 50%: 0.00 KVA									
										LARGEST MOTOR LOAD @ 125%: 0.00 KVA									
										CONTINUOUS LOAD @ 125%: 0.00 KVA									
										OTHER AND NON-CONTINUOUS LOADS @ 100%: 0.54 KVA									
										TOTAL DEMAND LOAD: 24.27 KVA									
										POWER FACTOR: 0.95 % PF									
										TOTAL DEMAND CURRENT: 70.92 AMPS									

NOTES:

1 PROVIDE SHUNT TRIP BREAKER AND INTERLOCK WITH EPO

REV:

TOTAL CONNECTED LOAD: 23.63 KVA

TOTAL CONNECTED CURRENT: 65.59 AMPS

LIGHTS @ 125%: 5.71 KVA

RECEPTACLES @ 100%: 7.02 KVA

RECEPTACLES @ 50%: 0.00 KVA

LARGEST MOTOR LOAD @ 125%: 0.00 KVA

CONTINUOUS LOAD @ 125%: 0.00 KVA

OTHER AND NON-CONTINUOUS LOADS @ 100%: 0.54 KVA

TOTAL DEMAND LOAD: 24.27 KVA

POWER FACTOR: 0.95 % PF

TOTAL DEMAND CURRENT: 70.92 AMPS

GENERAL NOTE:

CONDUCTOR & CONDUIT SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100 AMPS

EQUIPMENT CONNECTION SCHEDULE															FEEDER SIZE	EQUIPMENT BEING FEED FROM PANEL	NOTES	REVISION
UNIT ID (PLAN MARKING)	DESCRIPTION	EQUIPMENT LOCATION	SIZE					DISCONNECT SWITCH					NOTE 1					
			HP	KW	A	VOLTS	PH	SIZE	VOLTAGE RATING	NUMBER OF POLES	NEMA TYPE	MOCP (NOTE 2)						
RTU 1	ROOFTOP UNIT	EXTERIOR	--	--	98	208	3	200	250	3	3R	125	23/23/26	1-1/4" C, 4-#1 & 1-#6G	MDP	3		
RTU 2	ROOFTOP UNIT	EXTERIOR	--	--	98	208	3	200	250	3	3R	125	23/23/26	1-1/4" C, 4-#1 & 1-#6G	MDP	3		
RTU 3	ROOFTOP UNIT	EXTERIOR	--	--	48	208	3	60	250	3	3R	60	23/23/26	1" C, 4-#6 & 1-#10G	MDP	3		
EF 1	EXHAUST FAN	RESTROOM	1/20	--	1	120	1	20	250	1	1	20	26/26/26	3/4" C, 2-#12 & 1-#12G	P1	4,5		
EF 2	EXHAUST FAN	RESTROOM	1/20	--	1	120	1	20	250	1	1	20	26/26/26	3/4" C, 2-#12 & 1-#12G	P1	4,5		
EF 3	EXHAUST FAN	JANITOR	1/20	--	1	120	1	20	250	1	1	20	26/26/26	3/4" C, 2-#12 & 1-#12G	P1	4,5		
UH 1	UNIT HEATER	MECH ROOM	1/4	5	20.8	208	1	30	250	2	1	30	26/26/26	3/4" C, 3-#10 & 1-#10G	P1			
DWH 1	DOMESTIC WATER HEATER	MECH ROOM	--	--	2	208	1	20	250	2	1	20	26/26/26	3/4" C, 3-#12 & 1-#12G	P1	4,6		
CP 1	CIRCULATION PUMP	MECH ROOM	1/12	--	1.8	120	1	20	250	1	1	20	26/26/26	3/4" C, 2-#12 & 1-#12G	P1	4		

GENERAL NOTE:
A DISCONNECTS SHALL BE 1HP HORSE POWER RATED WHERE APPLICABLE.

NOTES:
1 XYZ
X=FURNISHED BY DIVISION (22, 23 or 26)
Y=INSTALLED BY DIVISION (22, 23 or 26)
Z=CONNECTED BY DIVISION (22, 23 or 26)
2 MAXIMUM OVERCURRENT PROTECTION FUSE OR HACR CIRCUIT BREAKER PER MANUFACTURE'S LABEL
3 PROVIDE WITH RETURN AIR SMOKE DETECTION, INTERLOCK WITH UNIT FOR SHUTDOWN UPON DETECTION OF SMOKE.
4 PROVIDE 20A/1P TOGGLE SWITCH FOR DISCONNECTING MEANS.
5 INTERLOCK WITH LIGHTS SERVING ASSOCIATED ROOM. FAN SHALL OPERATE WHEN LIGHTS ARE TURNED ON.
6 PROVIDE EPO SWITCH AND INTERLOCK WITH SHUNT TRIP BREAKER.

LIGHT FIXTURE SCHEDULE

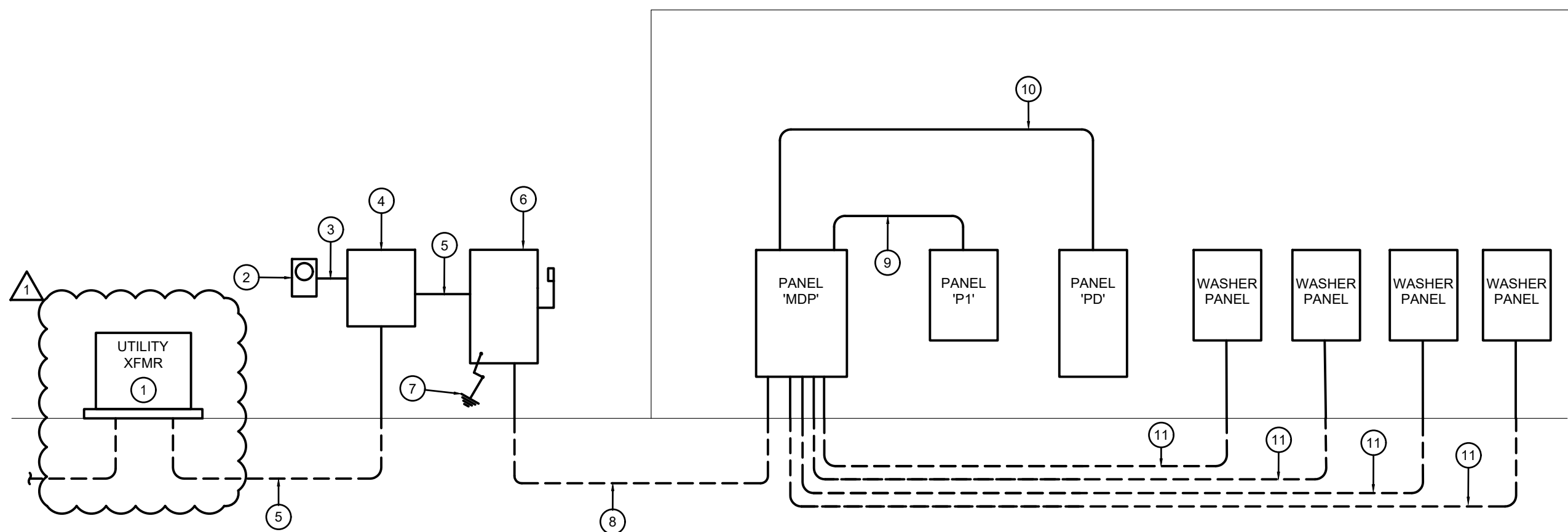
TYPE	MANUFACTURER	LAMPS	WATTS VOLTS	DESCRIPTION	NOTES
A1	LITHONIA CPX-2X4-4000LM-40K-M2	LED 4692 LUMENS 4000K, 80CRI	38.9 120	2X4 RECESSED LED FLAT PANEL.	1
B1	LITHONIA CCS-4-48-4000LM-MVOLT-40K- 80CRI-ZACH	LED 4000 LUMENS 4000K, 80 CRI	35.8 120	NOMINAL 4" LINEAR LED STRIP FIXTURE, ACRYLIC LENS, WHITE HOUSING, AIRCRAFT CABLE MOUNTING SUSPENSION.	1
C1	LITHONIA WDGE4-LED-P4-40K-80CRI-R3- MVOLT	LED 12000 LUMENS 4000K, 80 CRI	88 120	NOMINAL 18" WIDE BY 6" DEEP WALL MOUNTED LED AREA LIGHT, TYPE III DISTRIBUTION, BRONZE FINISH.	1
E1	LITHONIA ELMR	LED W/ FIXTURE	2.5 120	EMERGENCY LIGHTING UNIT, LED HEADS, WHITE HOUSING.	1
RL	LITHONIA ELA-8-S-Q-L0309-SD	LED W/ FIXTURE	1.5 120	WET LOCATION LISTED EXTERIOR REMOTE EMERGENCY LIGHTING UNIT TO BE WIRED WITH ADJACENT EXIT SIGN.	1
X1	LITHONIA LHQM-LED-R-HQ-SD	LED W/ FIXTURE	4.3 120	COMBINATION EXIT SIGN AND EMERGENCY LIGHTING UNIT, WHITE HOUSING, RED LETTERS, NICAD BATTERY, SELF DIAGNOSTICS. PROVIDE WITH REMOTE HEAD WHERE INDICATED ON PLANS.	1

SPECIFIC NOTES:
1 OR APPROVED EQUAL BY METALUX, HE WILLIAMS

SUBSTITUTION NOTES:

THE LIGHTING DESIGN FOR THIS PROJECT IS BASED UPON THE MANUFACTURERS SPECIFIED. IF AN ADDITIONAL SUBSTITUTION IS DESIRED BY THE CONTRACTOR, A SUBSTITUTION REQUEST SUBMITTAL MUST BE PROVIDED AS FOLLOWS:
S1. SUBSTITUTION REQUEST MUST BE RECEIVED BY THE ENGINEER IN WRITING 10 DAYS PRIOR TO BID. FAILURE TO SUBMIT CONSTITUTES A GUARANTEE TO SUPPLY THE SPECIFIED FIXTURES.
S2. INFORMATION IS TO BE SUPPLIED COMPARING PHOTOMETRY, (WITH FLOOR PLANS INDICATING POINT BY POINT CALCULATIONS) DIMENSIONS, MATERIAL COMPOSITION, FINISH, VISUAL APPEARANCE AS WELL AS THE CONTRACTOR NET PRICING. SAMPLES ARE TO BE PROVIDED UPON REQUEST.
S3. GREAT CARE, TIME AND EXPENSE HAVE BEEN USED TO PROVIDE OUR CLIENT WITH THE LIGHTING AND CONTROLS SYSTEM. THEREFORE, FOR EACH AND EVERY TYPE OF FIXTURE OFFERED AS AN UNSOLICITED ALTERNATE, A \$500.00 FEE WILL BE CHARGED TO THE CONTRACTOR FOR REVIEW OF THE ALTERNATE FIXTURE. THIS CHARGE IS IN NO WAY A GUARANTEE OF APPROVAL, BUT IS SOLELY TO COMPENSATE THE ENGINEER FOR TIME SPENT VALIDATING EQUALITY AND COMPATIBILITY WITH THE PROJECT REQUIREMENTS. THIS REIMBURSEMENT MUST BE RECEIVED BY THE ENGINEER PRIOR TO ANY REVIEW COMMENCING.
S4. PACKAGING OF LIGHT FIXTURES WILL NOT BE CONSIDERED OR APPROVED.
S5. MANUFACTURER'S REPRESENTATIVE AGENTS SHALL BE ALLOWED TO OFFER MINI-LIST PRICING FOR SPECIFIED LIGHTING FIXTURES.
S6. LIGHTING CONTROLS PRICING SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING. ANY LIGHTING CONTROLS PRICING THAT IS SUBMITTED WITH LIGHT FIXTURE PRICING (UNIT OR MINI-LIST) WILL BE IMMEDIATELY REJECTED IN ITS ENTIRETY.

GENERAL NOTE:
G1. ELECTRICAL CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ANY LIGHT FIXTURES.
G2. ELECTRICAL CONTRACTOR SHALL COORDINATE DIMMING DRIVERS/BALLASTS WITH DIMMING SWITCHES/SYSTEMS AND SHALL INCLUDE ALL REQUIRED CONTROL WIRING.



RISER DIAGRAM

NO SCALE

RISER NOTES

- PAD MOUNT UTILITY TRANSFORMER PER EVERGY STANDARDS.
- METER SOCKET PER EVERGY STANDARDS.
- 1-1/4" EMPTY CONDUIT FOR CT WIRING.
- CT CABINET PER EVERGY STANDARDS.
- 1200 AMP SERVICE ENTRANCE CONDUCTORS, (4) SETS OF 2-1/2" C, 4-#350 KCMIL.
- 1200 AMP, 208 VOLT, 3 PHASE, 4 WIRE DISCONNECT SWITCH, FUSED AT 1200 AMPS IN A NEMA 3R ENCLOSURE. SERVICE ENTRANCE RATED.
- GROUND PER NEC ARTICLE 250 AND DETAIL.
- 1200 AMP FEED: (4) SETS OF 2-1/2" C, 4-#350 KCMIL & 1-#30 GROUND WIRE.
- 100 AMP FEED: 1-1/4" C, 4-#3 & 1-#8 GROUND WIRE.
- 400 AMP FEED: 3" C, 4-#500 KCMIL & 1-#3 GROUND WIRE.
- 225 AMP FEED: 2-1/2", 4-#40 & 1-#4 GROUND WIRE.

GENERAL NOTES (TYPICAL ALL SHEETS)

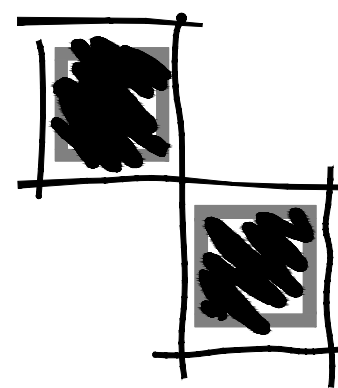
- REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR EXACT PLACEMENT OF LIGHT FIXTURES, SPEAKER AND F.A. DEVICES IN THE CEILING SYSTEM.
- REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR COORDINATION OF LOCATION OF ALL WIRING DEVICES BEFORE ROUGH-IN OF J-BOXES.
- CONTRACTOR TO REFERENCE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100AMPS.
- SUPPORT ALL LIGHT FIXTURES WITH A MINIMUM OF (4) 12 GA. HANGER WIRES TO STRUCTURE ABOVE.
- CONNECT EXIT AND EMERGENCY LIGHTS TO HOT LEG, NOT SWITCH LEG.
- DISCONNECTS FOR MECHANICAL EQUIPMENT ARE PROVIDED BY OTHERS. UNLESS NOTED OTHERWISE.
- PROVIDE HOUSE KEEPING PAD FOR ALL FLOOR MOUNTED EQUIPMENT.
- UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
- REFERENCE EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION REQUIREMENTS TO ALL EQUIPMENT.
- CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR REQUIREMENTS AND LOCATIONS. ELECTRICAL SYSTEMS SHALL BE DESIGNED TO TAKE ADVANTAGE OF UTILITY COMPANY'S REBATE PROGRAM.

ELECTRICAL SYMBOLS

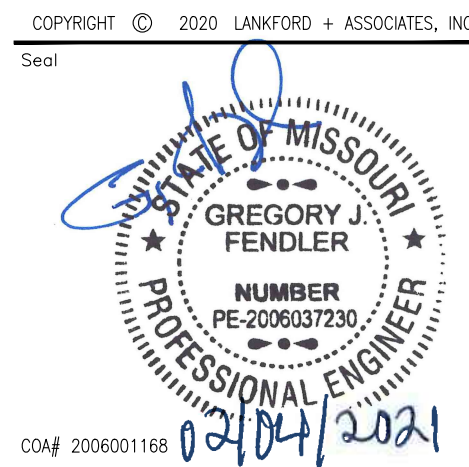
- BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE MINIMUM NO.12 UNLESS NOTED OTHERWISE.
PHASE CONDUCTORS
NEUTRAL CONDUCTOR
SWITCH-LEG AND OR TRAVELER
GROUND CONDUCTOR
- LP1-10
1/3, 1/35
PANEL - BREAKER NUMBER (IDENTIFICATION)
INDICATES XXX= 2-POLE C.B., XXXX = 3-POLE C.B.
- CONDUIT CONCEALED IN CEILING OR WALL WITH THREE CONDUCTORS: 1-PHASE, 1-NEUTRAL, 1-GROUND WIRE. MINIMUM NO.12 WIRE UNLESS OTHERWISE SPECIFIED ON DRAWINGS.
- CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB.
- GROUNDING CONDUCTOR NO.12 WIRE EXCEPT AS NOTED
- COMBINATION EXIT SIGN/EMERGENCY LIGHTING UNIT - CEILING OR WALL MOUNTED. SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT.
- CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT WITH INTEGRAL BATTERY AND UNIT MOUNTED HEADS.
- 2x4 / 2x2 LIGHT FIXTURE, LETTER DENOTES FIXTURE TYPE, REFER TO SCHEDULE
- WALL MOUNTED LIGHT FIXTURE, SIZE AND TYPE AS NOTED
- INDIRECT/DIRECT LIGHT FIXTURE, SIZE AND TYPE AS NOTED
- 208Y/120V OR 120/240V PANELBOARD (SURFACE) TOP MOUNTED 6'-0" AFF
- DISTRIBUTION PANEL (SURFACE OR FLOOR MOUNTED).
- SURFACE MOUNTED EQUIPMENT, TYPE AS INDICATED ON DRAWINGS
- CONDUIT UP
- CONDUIT DOWN
- GROUND
- POWER CONNECTION POINT
- DISCONNECT SWITCH, SIZE AND TYPE AS NOTED TOP MOUNTED 5'-0" AFF
- SINGLE POLE SWITCH, TOP OF DEVICE BOX AT +4'-0" AFF
- WALL MOUNTED MOTION SENSOR, TOP OF DEVICE BOX AT +4'-0" AFF, TYPE AS INDICATED
- 20A/3P SWITCH
- PUSH BUTTON +4'-0" AFF.
- DUPLEX RECEPTACLE +1'-6" AFF OR AS NOTED
- DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP
- DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION +1'-6" AFF OR AS NOTED
- DOUBLE DUPLEX RECEPTACLE +1'-6" AFF OR AS NOTED
- CEILING MOUNTED MOTION DETECTOR TYPE AS INDICATED
- WALL MOUNTED OR CEILING MOUNTED JUNCTION BOX.
- DUCT MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR
- INDICATES WIRING DEVICE ABOVE RE. DRAWING
- MECHANICAL EQUIPMENT CALL OUT BUBBLE
- ELECTRICAL EQUIPMENT PROVIDED BY ANS INSTALLED BY E.C.

1730 Walnut Street
Kansas City, Missouri
64108

Fender



Lankford



WASH HOUSE LAUNDRY - LEE'S SUMMIT

711 SE 291 HWY.
LEE'S SUMMIT, MO. 64063

Project Number:	20.6606.00
Date	12/15/2020
Phase	Construction
Issued For	Permit
Drawn By	JSV
P.L.C.	BLH/GIF

Revision	ADDENDUM 1	FEBRUARY 04, 2021
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