

GROUND ROOTS COFFEE

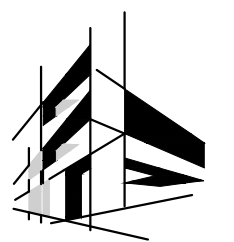
FINAL DEVELOPMENT PLAN

3680 NE AKIN DRIVE SUITE 144
LEE'S SUMMIT, MO

date: 5-11-22

INNOVATIVE DESIGN & RENOVATION

8011 PASEO SUITE 201
KANSAS CITY, MO. 64131
(816) 531-2221
Arkitec35@aol.com



ARCHITECTURAL
ENGINEERING
CONSORTIUM, INC

MECHANICAL • ELECTRICAL • PLUMBING
STRUCTURAL • FIRE PROTECTION

WWW.AECCONSORT.COM

KANSAS OFFICE 11022 S Green Rd,
Olathe, KS 66061
913-828-3603
F: 913-828-9352

MISSOURI OFFICE 732 Sigel Court Blvd,
Lake Ozark, MO 65049
573-365-2100
F: 573-365-2102



8-19-22

CODE REVIEW

- Building codes used:
 - 2018 International Building Code
 - 2018 International Mechanical Code
 - 2018 International Plumbing Code
 - 2018 International Fuel and Gas Code
 - 2018 International Fire Code
 - 2017 National Electrical Code
 - 2018 International Existing Building Code
 - 2012 International Energy Conservation Code
- Occupancy type: (B) Retail shop (New building) = 1,096 SF. gross
- Construction type VB (NO SPRINKLERS)
- Area of building for occupancy M
 - Retail Sales 388 SF/60(gross) = 6
 - Kitchen 415 SF/200(gross) = 2
- TOTAL 8 Occupants
- Sprinklers are NOT required.
- Building height 18'-0" actual 40'-0" allowed.
- Number of stories 1 actual, 2 allowed above grade plane.
- Structural fire ratings for type VB construction per table 601:

	ALLOWABLE	ACTUAL
Primary structural frame	0 hour	0hour
Bearing walls	Exterior 0 hour Noncombustible	0 hour
	Interior 0 hour	0 hour
Nonbearing walls	Interior 0 hour	0 hour
Floor construction	0 hour	0 hour
Roof construction	0 hour	0 hour
- Number of exits required = 1 Number provided =2

Flood Panel 29095C0430G Effective Date 1/20/2017

ENGINEERS ESTIMATE OF PROBABLE CONSTRUCTIONS COST TO BE
\$850,355.00

OIL AND GAS

ACCORDING TO THE WELL INSTALLATION SECTION DRILLING INFORMATION MAP OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES THERE ARE NO OIL AND GAS WELLS IN THE VICINITY OF THIS PROPERTY

ABBREVIATIONS

ACOUS	ACOUSTICAL	CLG	CEILING	ELEV	ELEVATOR	H	HIGH	MH	MANHOLE	QT	QUARRY TILE	T	TREAD
AC	AIR CONDITIONING	CLR	CLEAR	ENCL	ENCLOSURE	HB	HOSE BIBB	MIN	MINIMUM	QTR	QUARTER	T & B	TOP AND BOTTOM
ADJ	ADJUSTABLE	CMU	CONCRETE MASONRY UNIT	ENGR	ENGINEER	HC	HANDICAP	MO	MASONRY OPENING	RA	RETURN AIR	T & G	TOP AND GROOVE
ADJ	ADJUSTABLE	COL	COLUMN	EQ	EQUAL	HD	HEAD	MS	MACHINE SCREW	RB	RESILIENT BASE	TELE	TELEPHONE
AGG	AGGREGATE	CONC	CONCRETE	EQUIP	EQUIPMENT	HOW	HARDWARE	MTL	METAL	R	RISER	TEMP	TEMPERED
ALT	ALTERNATE OR ALTERNATIVE	CONC	CONCRETE	ESMT	EASEMENT	HM	HOLLOW METAL	MULL	MULLION	RAD	RADIUS	TERR	TERRAZZO
AL	ALUMINUM	CONSTR	CONSTRUCTION	EW	ELECT. WATER COOLER	HW	HORIZONTAL	NEG	NEGATIVE	RES	RESILIENT	THK	THICK
AP	ACCESS PANEL	CONT	CONTINUOUS	EXH	EXHAUST	HP	HIGH POINT	NIC	NOT IN CONTRACT	RD	ROOF DRAIN	THRU	THROUGH
APPROX	APPROXIMATE (LY)	CONTR	CONTRACTOR	EXIST	EXISTING	HT	HEIGHT	NO	NO	REF	REFER TO	TO	TOP OF
ASPH	ASPHALT	EXT	EXPOSED AGGREGATE	EXP AGG	EXP AGG	HVAC	HEATING VENTILATING AND AIR CONDITIONING	NOM	NOMINAL	REF	REFERENCE	TRANS	TRANSFORMER
ATTN	ATTENTION	EXTOR	EXTINGUISHER	EXPAN	EXPANSION	INFO	INFORMATION	NTS	NOT TO SCALE	REIN	REINFORCE	TYP	TYPICAL
		D	DEEP	EXT	EXT	INS	INSIDE DIAMETER	OA	OVER ALL	REIN	REINFORCE	UC	UNDER CUT
		DBL	DOUBLE	FD	FLOOR DRAIN	IN	INSIDE DIAMETER	OC	ON CENTER	REQD	REQUIRED	UH	UNIT HEATER
BETWN	BETWEEN	DEC	DEGREE	FDN	FOUNDATION	INSUL	INSULATION	OD	OUTSIDE DIAMETER	RET	RETAINING	UNFIN	UNFINISHED
BLDG	BUILDING	DIL	DETAIL	FE	FIRE EXTINGUISHER CAB.	JAN	JANITOR	OPNG	OPENING	REV	REVISION	UL	UNDERWRITERS LABORATORY
BLK	BLOCK	DF	DRINKING FOUNTAIN	FF	FINISH FLOOR	JT	JOINT	OPN	OPENING	ROUND	ROUND	UNO	UNLESS NOTED OTHERWISE
BM	BEAM	DIA	DIAMETER	FHC	FIRE HOSE CABINET	JST	JOIST	OPP	OPPOSITE	RM	ROOM	VB	VINYL BASE
B.N.	BUILDING NORTH	DIAG	DIAGONAL	FIN	FINISH	LAM	LAMINATE OR LAMINATED	OZ	OUNCE	RTU	ROUGH OPENING	VCT	VINYL COMPOSITION TILE
BD	BOARD	DIFF	DIFFUSER	FLASH	FLASHING	LOC	LOCATION	P	PAINT	SA	SUPPLY AIR	VT	VINYL TILE
BO	BOTTOM OF	DM	DOWN	FLR	FLOOR	LAV	LAVATORY	PART	PARTITION	SAN	SANITARY	VEST	VESTIBULE
BRG	BEARING	DR	DOOR	FLUO	FLUORESCENT	LOC	LOCATION	PC	PLATE	SC	SEALED CONCRETE	VIR	VENT THROUGH ROOF
BSMT	BASEMENT	DT	DRAIN TILE	FR	FIRE RETARDANT	LOW	LOW POINT	PCE	PIECE	SD	SMOKE DETECTOR	VWC	VINYL WALL COVERING
BUR	BUILT UP ROOF	DW	DRY WALL	FT	FEET	LBR	LUMBER	PL	PLASTER	SF	SQUARE FEET		
		DWG(S)	DRAWING(S)	GA	GALVE	MACH	MACHINE	P LAM	PLASTIC LAMINATE	SHT	SHEET	W	WIDE
CAB(S)	CABINET(S)	EA	EACH	GA	GALVE	MAG	MAGNESIUM	PLYMD	PLYWOOD	SIM	SIMILAR	W/ (O)	WITH/ (OUT)
CB	CATCH BASIN	EC	ELECTRICAL CONTR.	GALV	GALVANIZED	MAS	MASONRY	POL	POLISHED	SP	STAND PIPE	WD	WOOD
CEM	CEMENT	EF	EXHAUST FAN	GC	GENERAL CONTRACTOR	MATL	MATERIAL	PC	PLASTER	SPAN	SPANDREL	W	WIRE
CJ	CONTROL JOINT	EJ	EXPANSION JOIST	GRFP	GLASS FIBER REINFORCED CONCRETE	MAX	MAXIMUM	PR	PRECAST	SPEC	SPECIFICATION	W GL	WIRE GLASS
?	CENTER LINE	EL	ELEVATION	GO	GLASS OPENING	MB	MOP BASIN	PREFAB	PREFABRICATED	SQ	SQUARE	WOW	WORKING POINT
		ELEC	ELECTRICAL	GO	GLASS OPENING	MECH	MECHANICAL	PROJ	PROJECT	SS	STAINLESS STEEL	WSCOT	WAINSCOT
				GR	GRADE	MC	MECHANICAL CONTRACTOR	PROP	PROPERTY	STD	STANDARD	W	WEIGHT
				GYP	GYP-SUM	MFR	MANUFACTURER	PSP	POUNDS PER SQUARE FOOT	STL	STEEL	WIF	WEIRED WIRE FABRIC
								PTD	PAINTED	SUSP	SUSPENDED	YD	YARD DRAIN
												YH	YARD HYDRANT

SYMBOLS LEGEND

DETAIL NUMBER
TYPICAL DETAIL DESIGNATION
SHEET WHERE DETAIL IS SHOWN

WALL SECTION

INTERIOR ELEVATION MARK

BUILDING ELEVATION

REVISION MARK

NEW PARTITION

INTERIOR PARTITION TYPE

PROPERTY LINE

LOT LINE

ACCESSORY / EQUIPMENT KEY

KEYED NOTE

ROOM NUMBER IDENTIFICATION

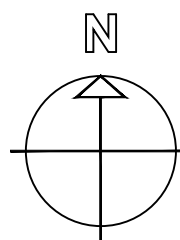
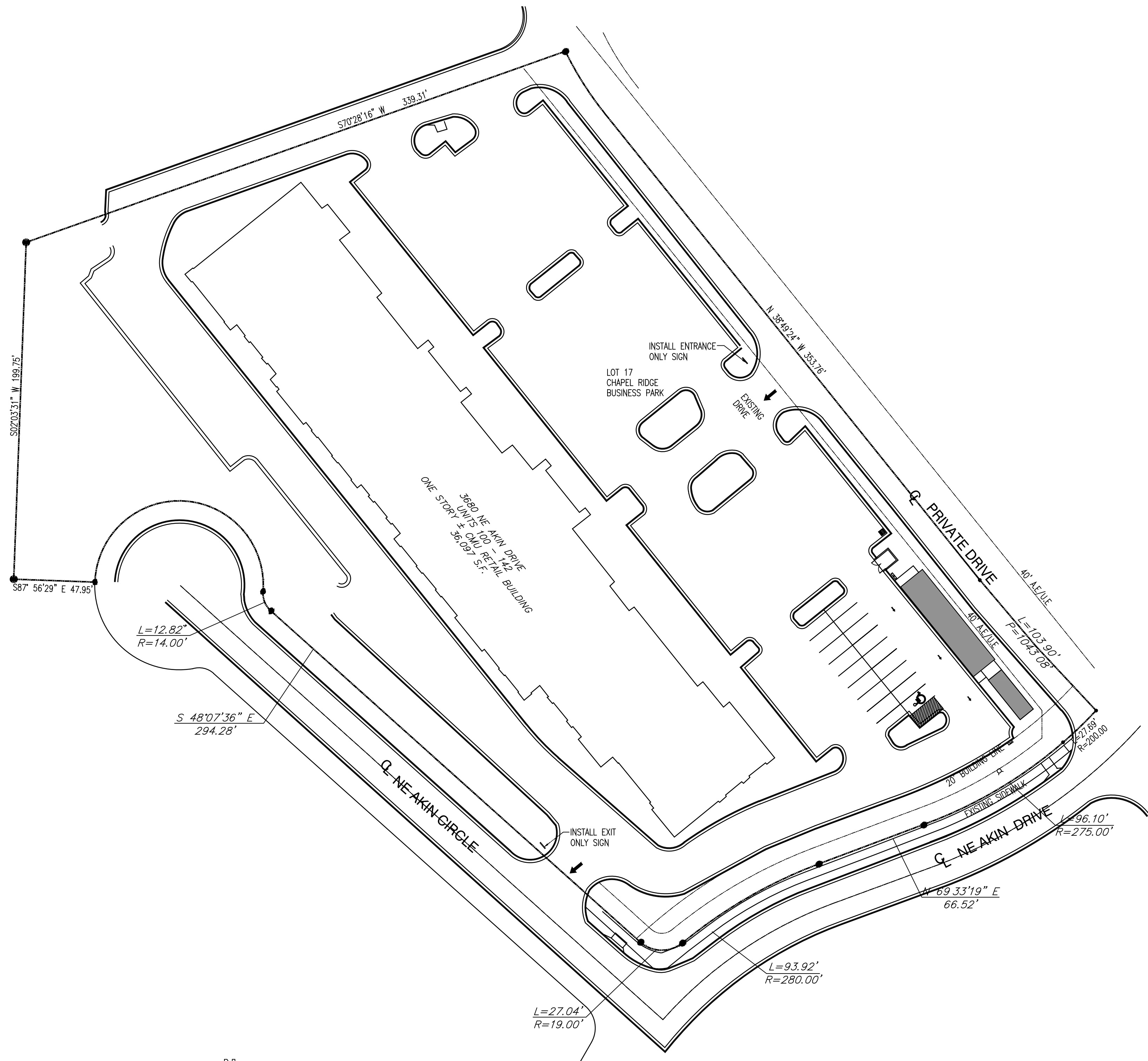
DOOR NUMBER IDENTIFICATION

HIDDEN OR ITEM ABOVE

SITE LOCATION



VICINITY MAP



SITE PLAN

Scale 1"=40.0'

SITE LEGEND

- Section Line
- Gas Line
- Overhead Electric Line
- Underground Electric Line
- Stormwater Sewer Line
- Telephone Line
- Water Line
- Sanitary Line
- Fence Line
- LOT LINE
- PROPERTY LINE
- FH = Fire Hydrant
- LP = Light Pole
- SIGN
- GM = GAS METER
- MH = Sanitary Sewer Manhole
- WM = Water Meter
- XFMR = Transformer
- NEW CONTOURS
- EXISTING CONTOURS
- CENTELINE
- R/W RIGHT-OF-WAY
- PP POWER POLE
- TJB TELEPHONE JUNCTION BOX
- GP GUARD POST
- TFC TANK FILLER CAP
- EJB ELECTRIC JUNCTION BOX
- C.I. CONCRETE INLET
- + HB HOSE BIBB

LEGAL DESCRIPTION

LOT 17, CHAPEL RIDGE BUSINESS PARK, LOTS 10 THRU 18 TRACTS H THRU K, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ACCORDING TO THE RECORDED PLAT THEREOF.

SITE DATA TABLE

EXISTING LOT AREA	182,138 SQ.FT.
PROPOSED BUILDING AREA	1,096 SQ.FT.
FAR % (LOT 17)	1.9%
IMPERVIOUS AREA	NO CHANGE
EXISTING PARKING SPACES	170
PROPOSED PARKING SPACES	155

DEVELOPER

YAAP CHAPEL RIDGE, LLC
ATTN: DR. VEERAL BHOOT
P.O. BOX 24193
OVERLAND PARK, KS

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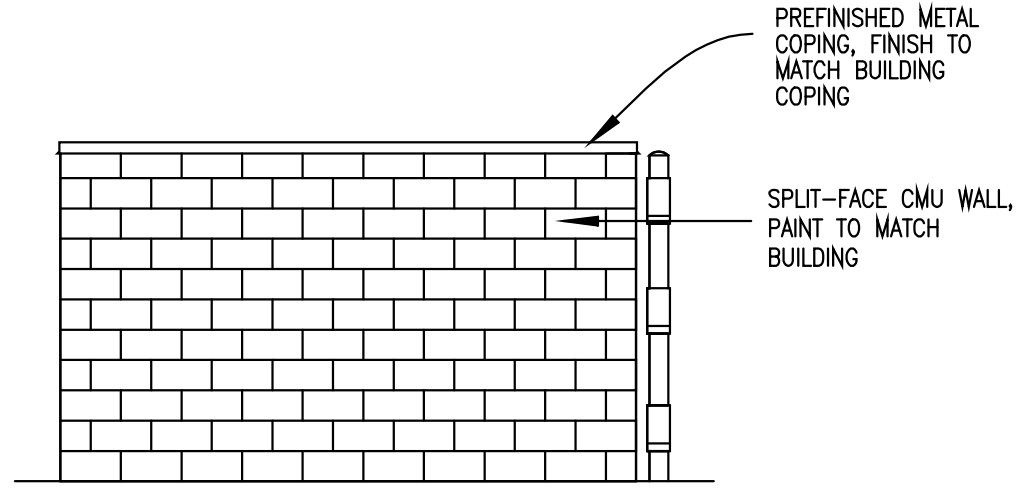
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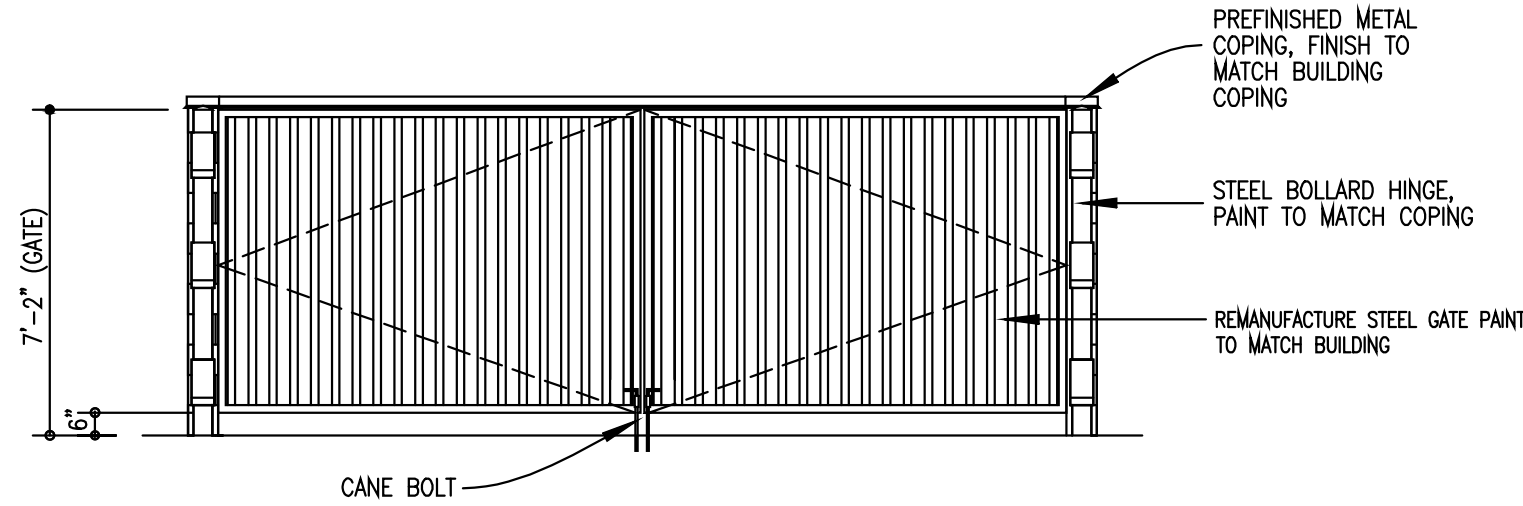
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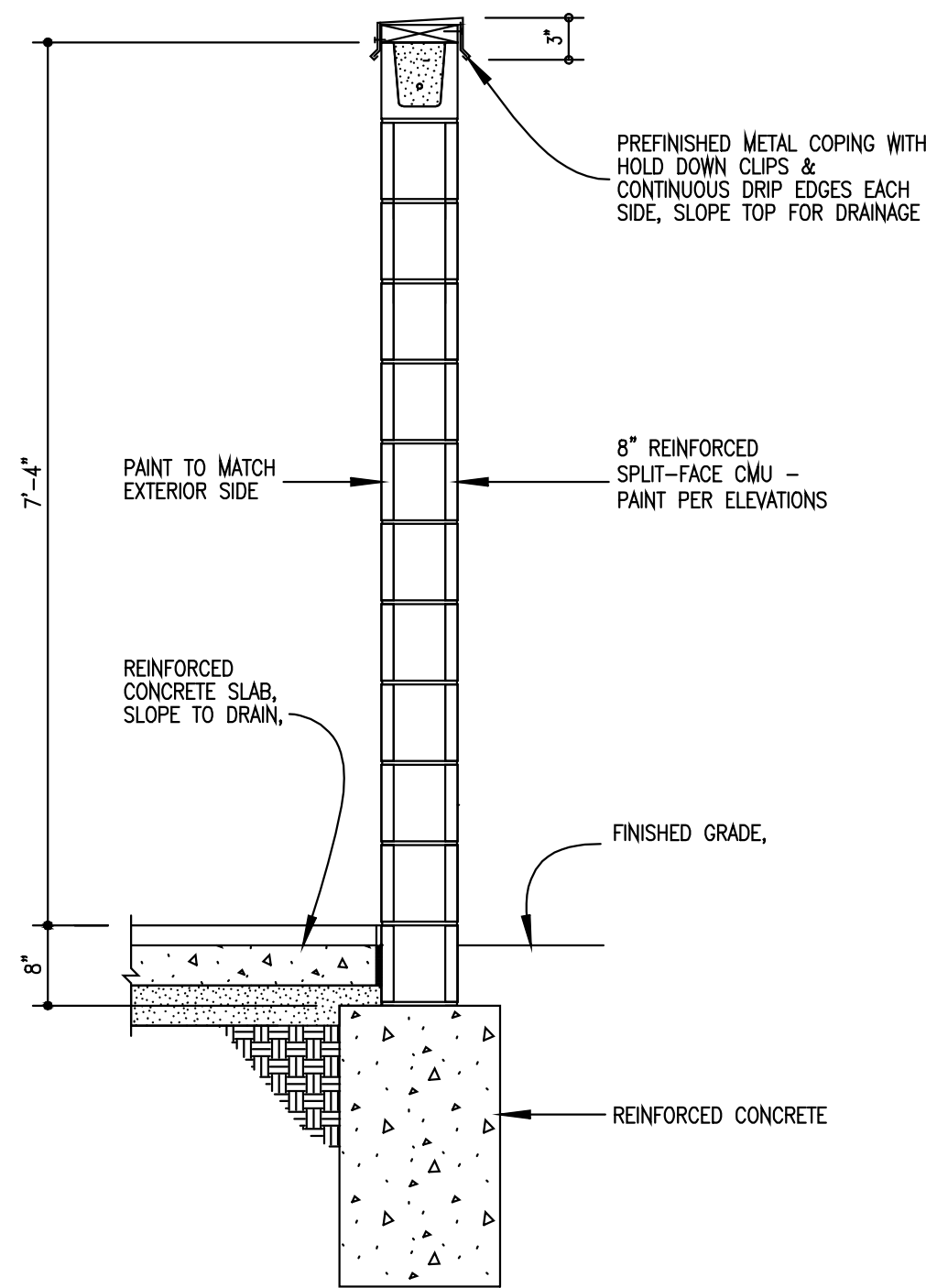
TRASH ENCLOSURE SIDE ELEVATON

Scale 1/4"=1'-0"



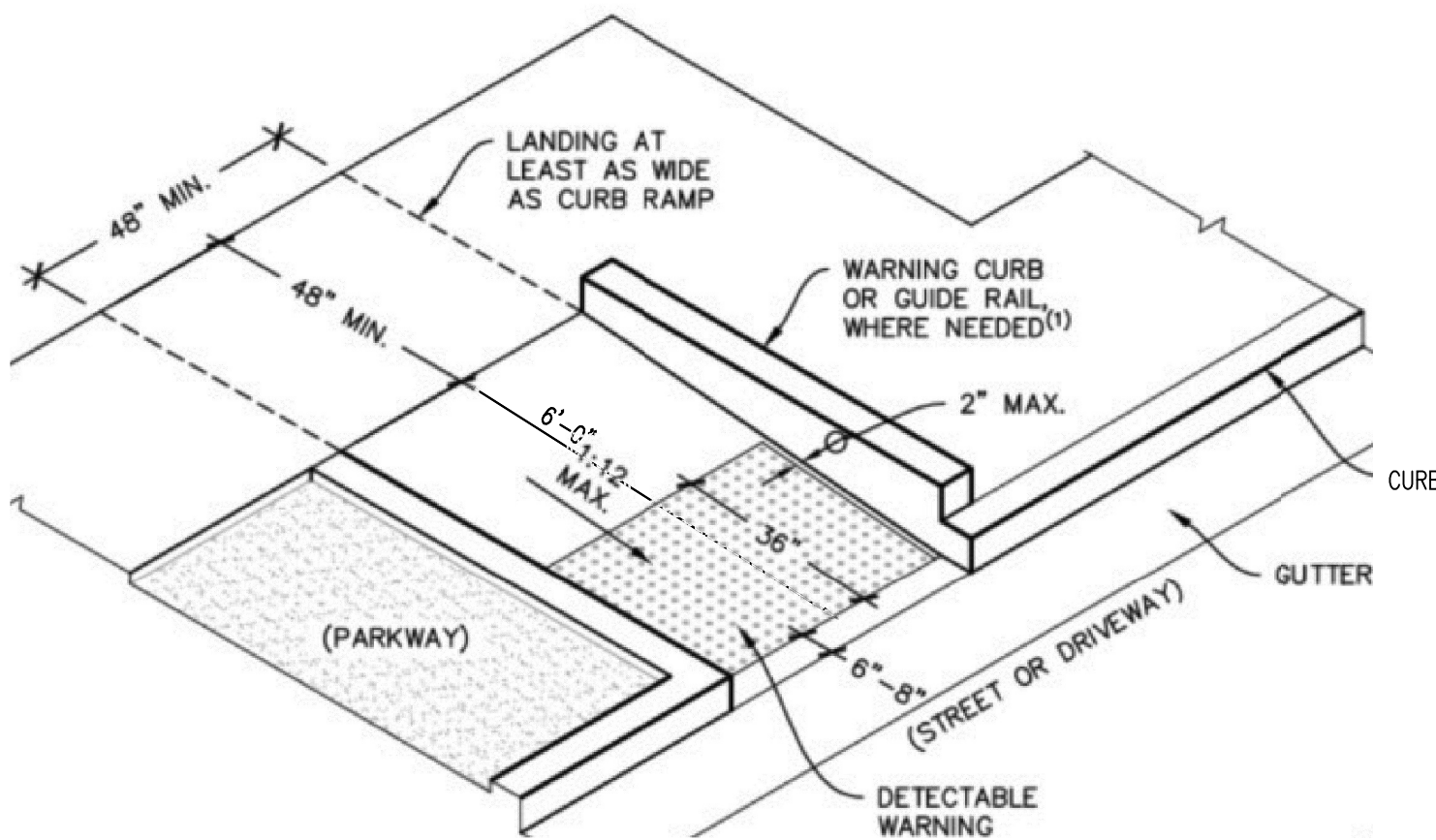
TRASH ENCLOSURE FRONT ELEVATON

Scale 1/4"=1'-0"

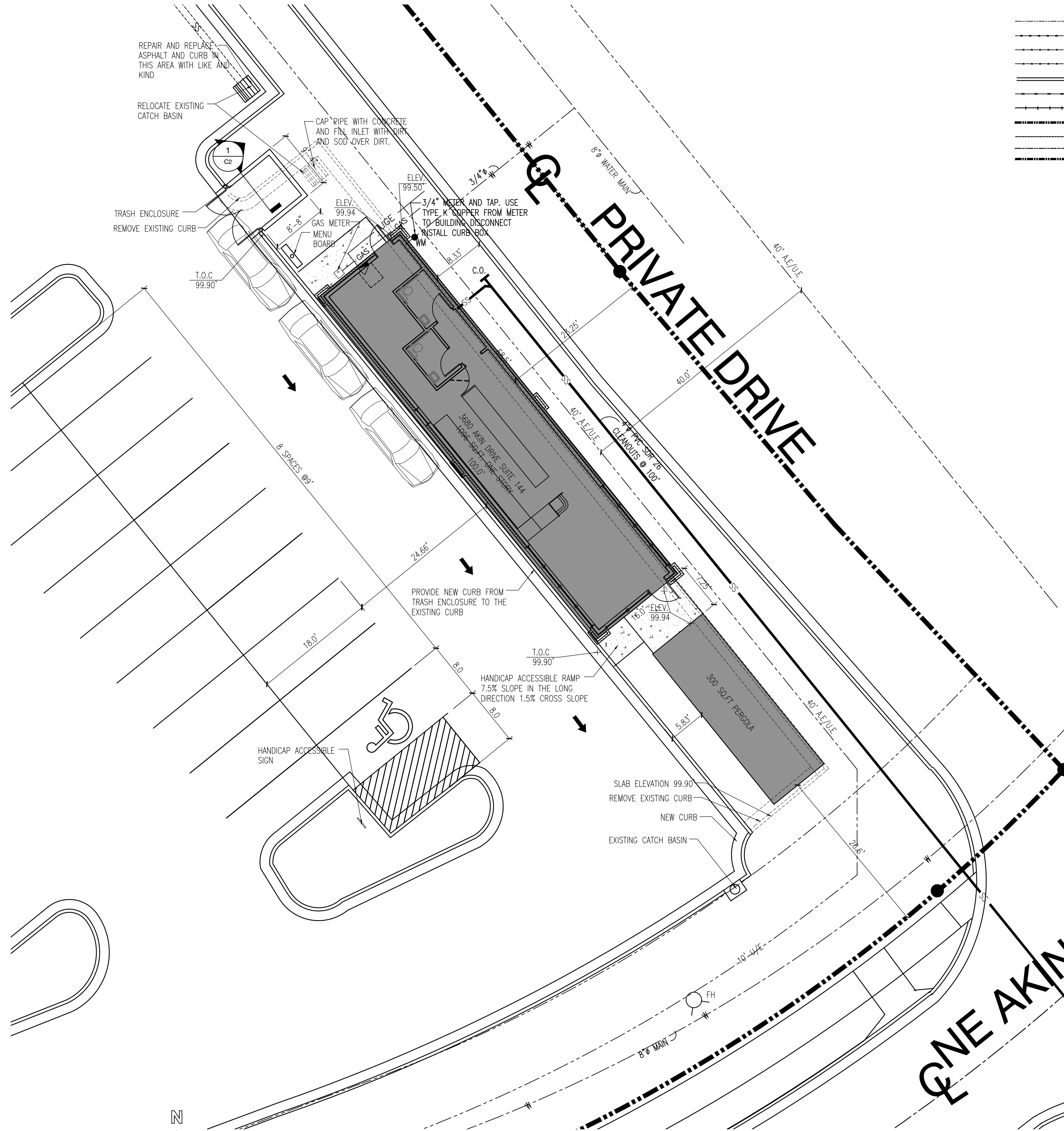


1 SECTION

C2 Scale 3/4"=1'-0"

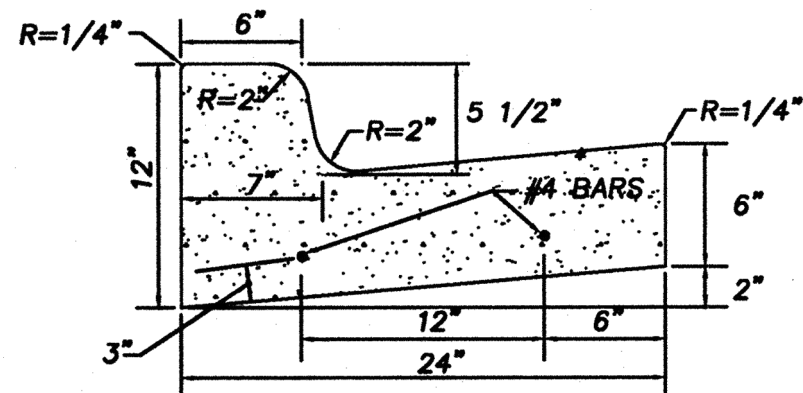


ACCESSIBLE RAMP DETAIL 6' RAMP LENGTH



SITE PLAN

Scale 1"=10.0'



CURB DETAIL

UTILITY NOTE:
THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION AND FOR MAKING HIS OWN VERIFICATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

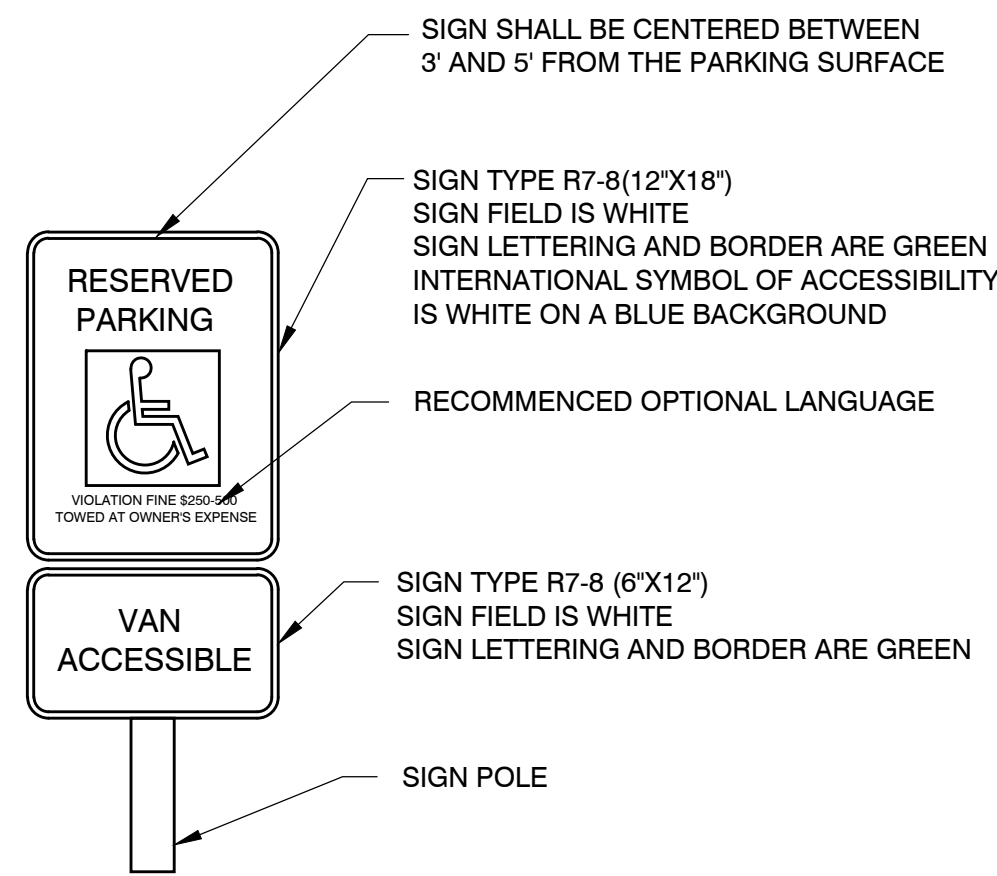
BEFORE YOU
DIG - DRILL - BLAST



Call
1-800-344-7483 (MISSOURI)
1-800-344-7233 (KANSAS)

SITE LEGEND

- Section Line
- Gas Line
- Overhead Electric Line
- Underground Electric Line
- Stormwater Sewer Line
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ACCESSIBLE SIGN DETAIL

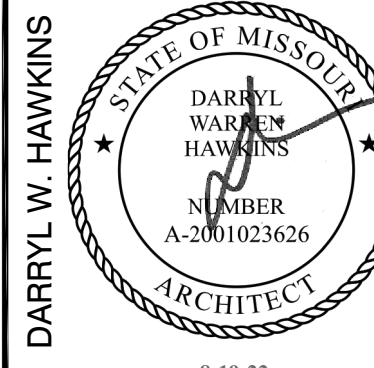
SIGN SHALL BE 5' ABOVE GRADE

GENERAL NOTES

- Contractor shall obtain all permits including land disturbance, right-of-way, hauling, etc., with public works prior to construction as applicable.
- Excavated material that is not immediately loaded and hauled off site shall be stockpiled on site. Contractor shall provide the appropriate BMP (silt fence, compost sock, gravel filter bags, waddies, etc.) fully surrounding the stockpile area to protect adjacent inlets or areas, until such time that stockpile is removed from site.
- Good housekeeping including all spill response shall be done.
- The new building must maintain proper clearances from Every overhead electric lines.
- Provide irrigation for new landscaping.
- Parking lot shall be paved and stripped and will comply with the unified development ordinance article 8 in terms of paving and thickness base.
- All construction traffic, temporary traffic control devices, and pavement markings shall conform to the requirements of the latest manual of the UNIFORM TRAFFIC CONTROL DEVICES.
- The contractor shall provide all materials, tools, equipment and labor as necessary to install and maintain adequate erosion control, keep streets clean of mud and debris, and prevent soil from leaving the project site.
- All water service installations including backflow devices are subject to field verification and approval by the Water Department Inspector.
- Sanitary sewer improvements- The site will utilize the existing sanitary sewer on the North side of the building.
- Water main improvements - The site will utilize the existing 8" water main on the North side of the building.
- Storm water improvements - the site will utilize the existing storm water catch basins.

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drawn by RES.
checked by
revised

sheet no.

C2

SILT FENCE EROSION CONTROL

1. Fabric fences may be constructed with supporting fences, such as snow fences or wire mesh fences. The supporting fences shall be strong enough to withstand the load from pond water and trapped sediment. The support posts shall be spaced at 10 feet intervals or less, and shall be placed or driven at least 2 feet into the ground. Posts shall be 4–inch diameter wooden posts or standard steel posts.

When fabric fence is installed without a supporting fence, the posts shall be spaced at 4 feet or less. Posts shall be placed or driven at least 2 feet into the ground. Posts shall be 2–inch square wood posts or standard steel posts.

2. A trench for anchoring the fabric shall be dug along the upslope side of the posts. The trench shall be at least 8 inches wide and 12 inches deep. The fabric shall be laid in the trench, which then shall be back filled and compacted to prevent water and sediment from passing underneath the fabric fence.

3. The filter fabric shall be furnished in a continuous roll cut to the length of the sill fence to avoid splices. When splices are necessary, the fabric shall be spliced at a support post with a minimum of 6–inch overlap, folded over, and securely fastened.

4. The synthetic filter fabric shall be a pervious sheet of polypropylene, nylon, polyester, or ethylene yarn uniform in texture and appearance and free from defects, flaws, or tears that would affect its physical properties. When installing fabric for silt fences, follow manufacturer’s recommendations.

EROSION CONTROL:

All erosion control practices are to be in accordance with EROSION and SEDIMENT CONTROL SPECIFICATION, of the MDNR. Erosion control practices are to be in place prior to construction. Where it is impractical to install erosion control practices prior to construction, the contractor shall install erosion control practices as soon as practical, during or following construction.

SODDING:

SODDING, may be used in any area requiring permanent seeding.

PERMANENT SEEDING/MULCHING

Permanent vegetation is to be seeded within 30 working days of the completion of construction and grading. At the contractors option sod may be established in any area where permanent vegetation is required.

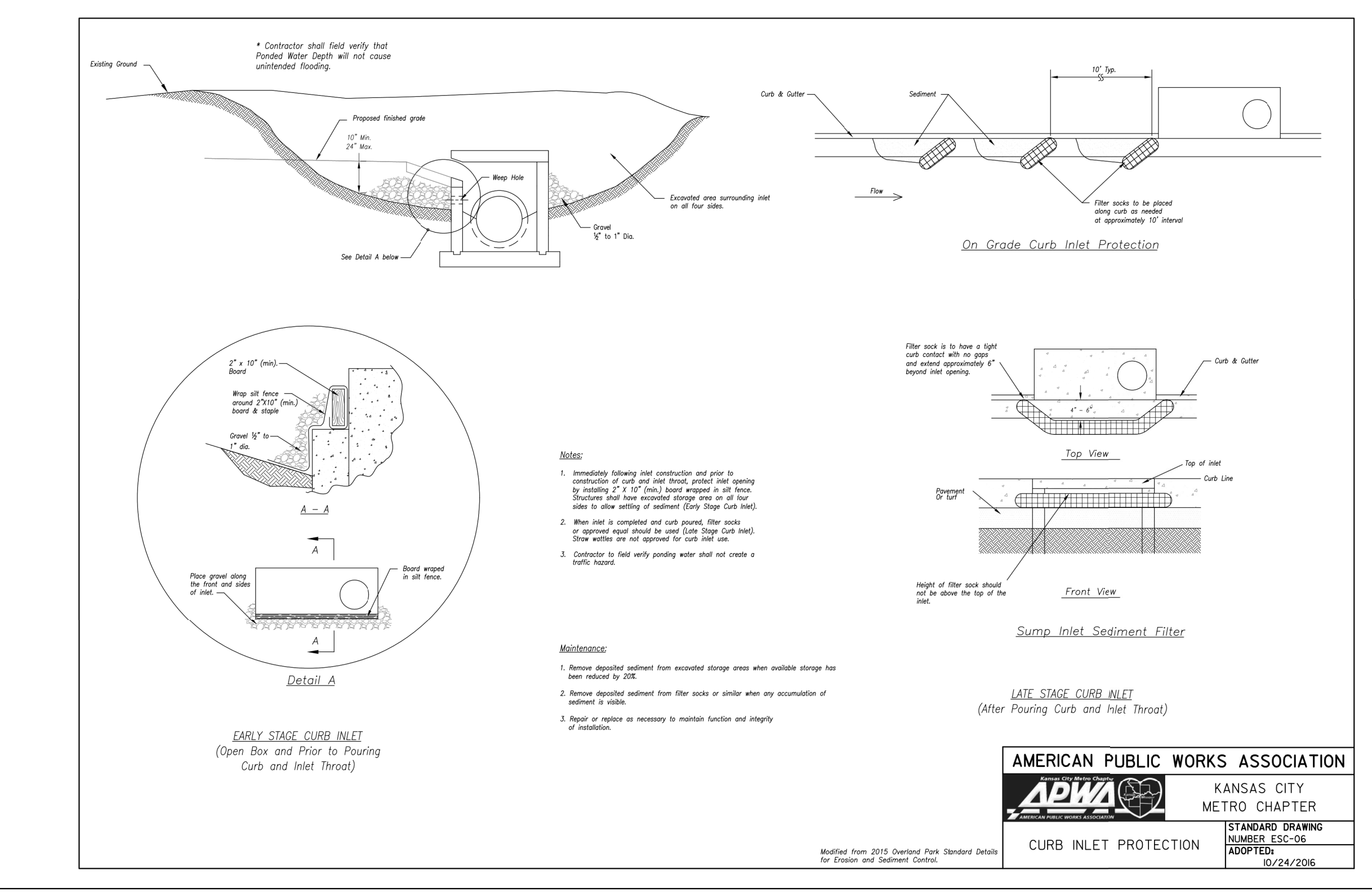
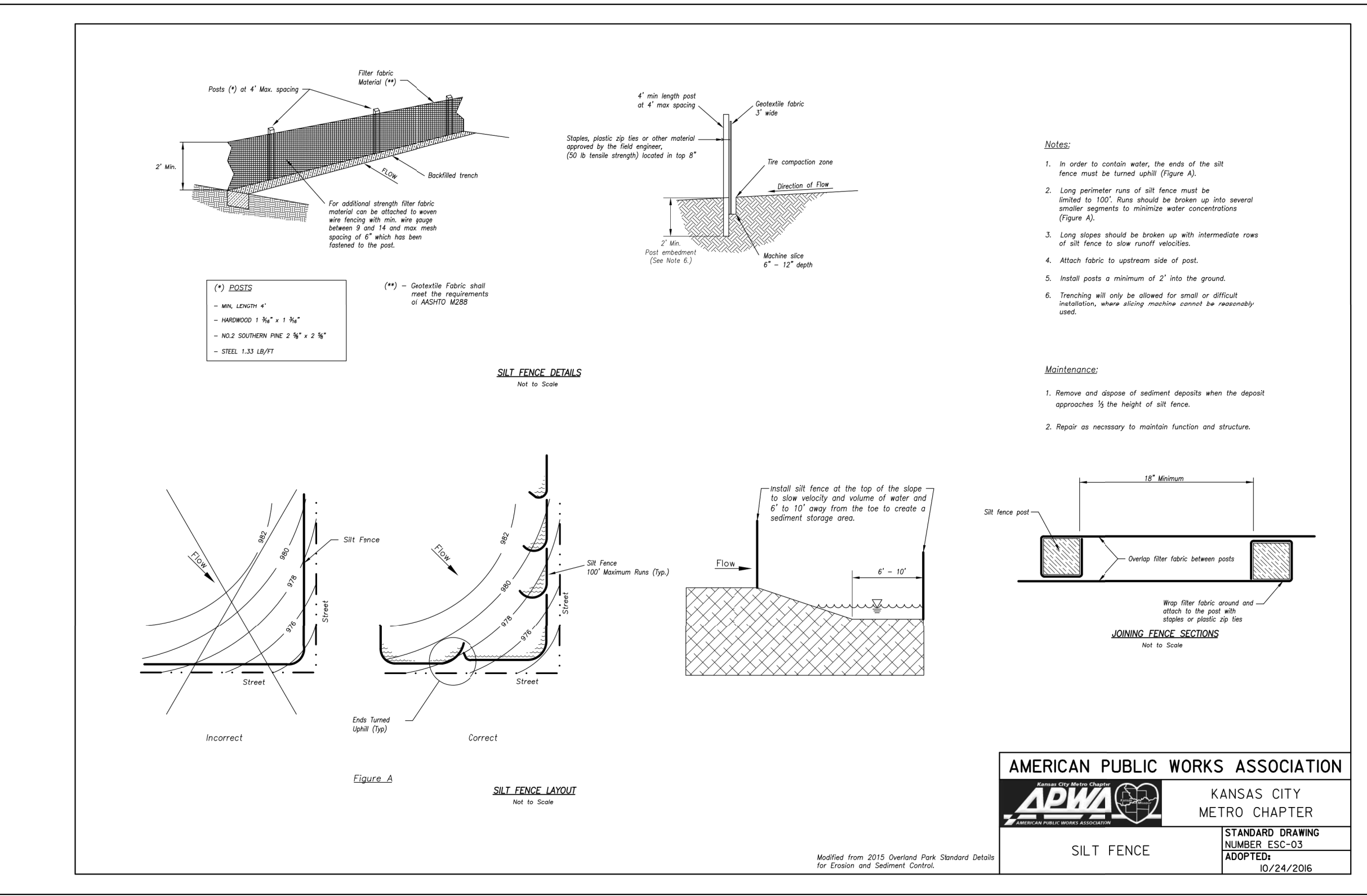
SILT FENCE or STRAW BALE BARRIERS:

Silt fence is to be installed in accordance with MDNR Standards

SEDIMENT FENCE.

Straw bale barriers are to be installed in accordance MDNR Standards.

Maintain sediment traps, silt fence straw bales after each significant rainfall, remove sediment and restore to original dimensions when sediment has accumulated to half the design depth. Place removed sediment in disposal or fill areas.



- (CE)— GRATE INLET PROTECTION TO BE IN PLACE PRIOR TO CONSTRUCTION
SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH MISSOURI DEPARTMENT OF NATURAL RESOURCES
- (SF)— SILT FENCING TO BE IN PLACE PRIOR TO CONSTRUCTION
SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LEE’S SUMMIT, MO

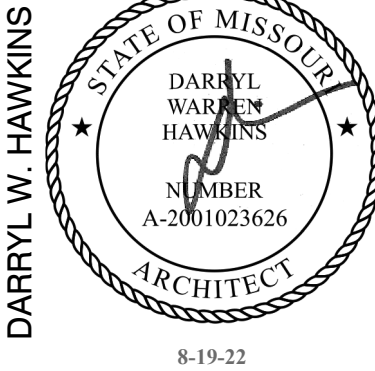
GENERAL NOTES

- The contractor shall provide all materials, tools, equipment and labor as necessary to install and maintain adequate erosion control, keep streets clean of mud and debris, and prevent soil from leaving the project site. The contractor’s erosion control measures shall conform to the city of Lee’s Summit, Mo. The contractor shall be responsible for providing additional erosion control measure or modifications if the plan fails to substantially control erosion or offsite sedimentation.
- The contractor shall inspect erosion control devices every 7 days and within 24 hours of a storm of 0.5” or more. The contractor shall repair damage, clean out sediment, and additional erosion control devices as needed, as soon as practicable, after inspection.



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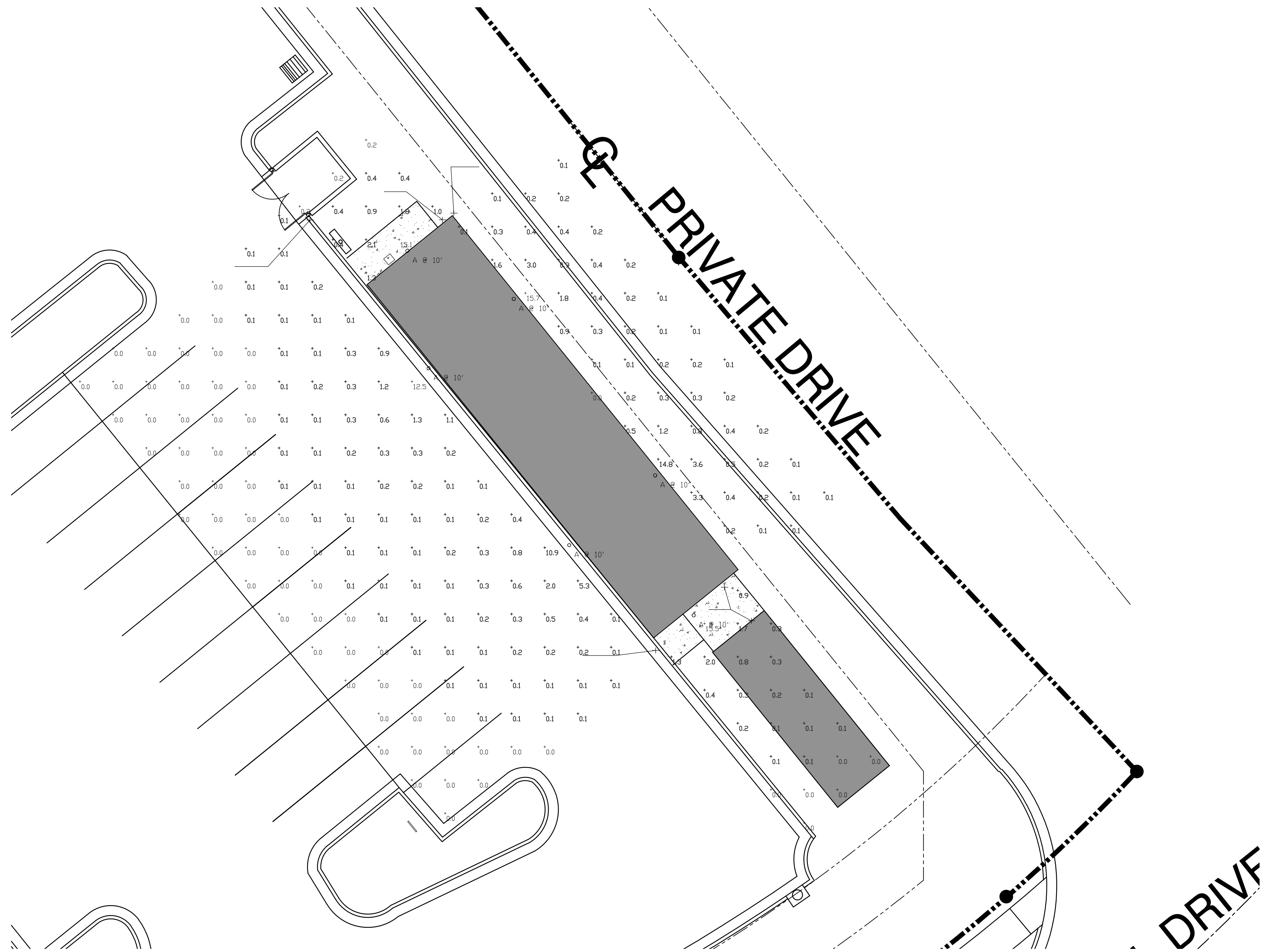
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C3



SITE PLAN
Scale 1"=10.0'

Schedule								
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF
○	A	6	Peachtree Lighting, LLC	C6BLRUD-14-35K-80-SH-RC-FINISH-WAL2-WL	6" CYLINDER, WITH A GEN 7 VERDIO CoB, SURFACE MOUNT	1	2911	0.9
								Input Power
								17
								Polar Plot

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
NW SIDE	+	1.9 fc	15.1 fc	0.2 fc	75.5:1	9.5:1
PARKING LOT	+	0.3 fc	12.5 fc	0.0 fc	N/A	N/A
SE SIDE	+	1.0 fc	15.5 fc	0.0 fc	N/A	N/A
NE SIDE	+	1.1 fc	15.7 fc	0.0 fc	N/A	N/A

Note
1. FIXTURES MOUNTED AT 10' ABOVE GRADE.

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DARRYL W. HAWKINS



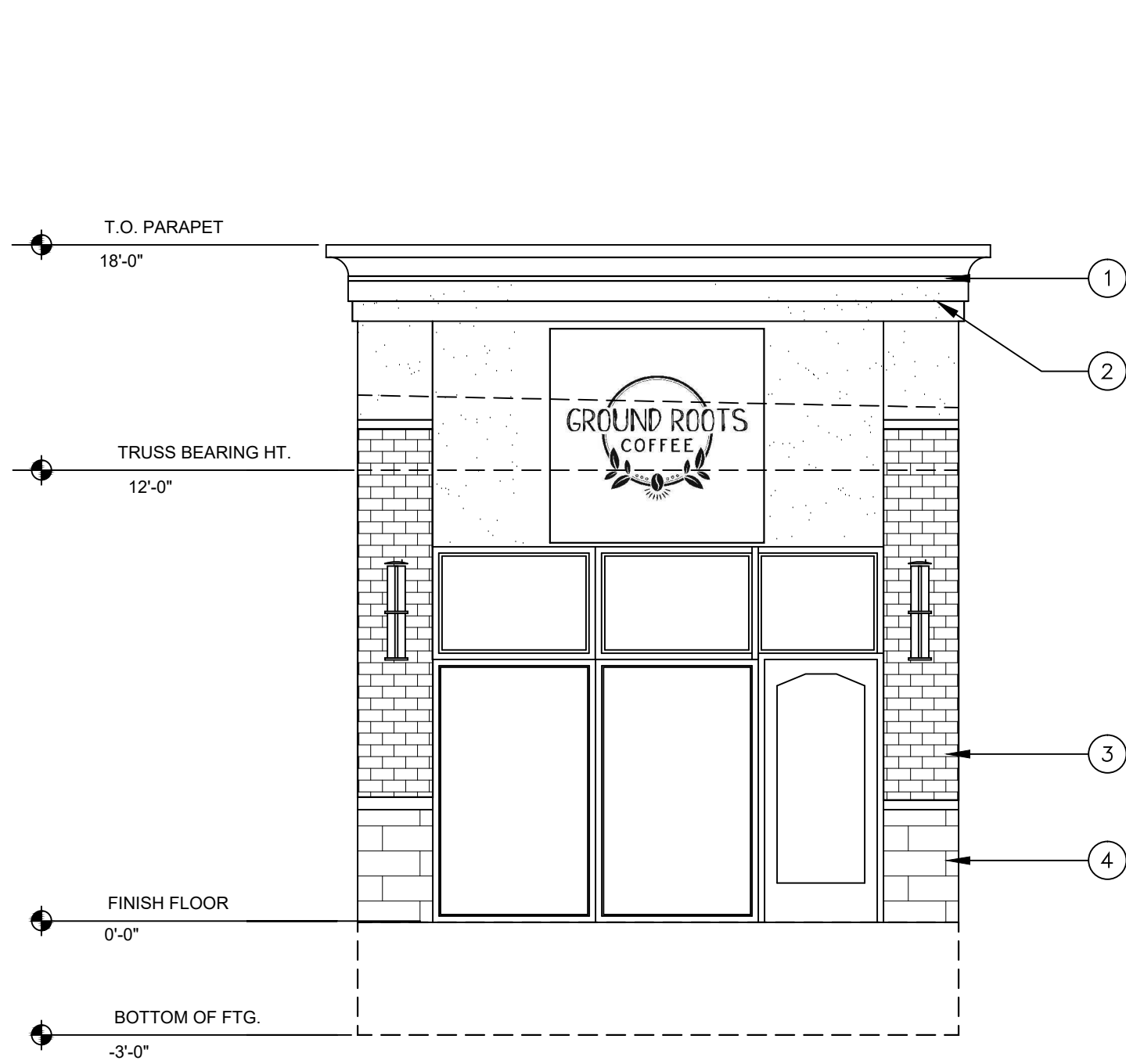
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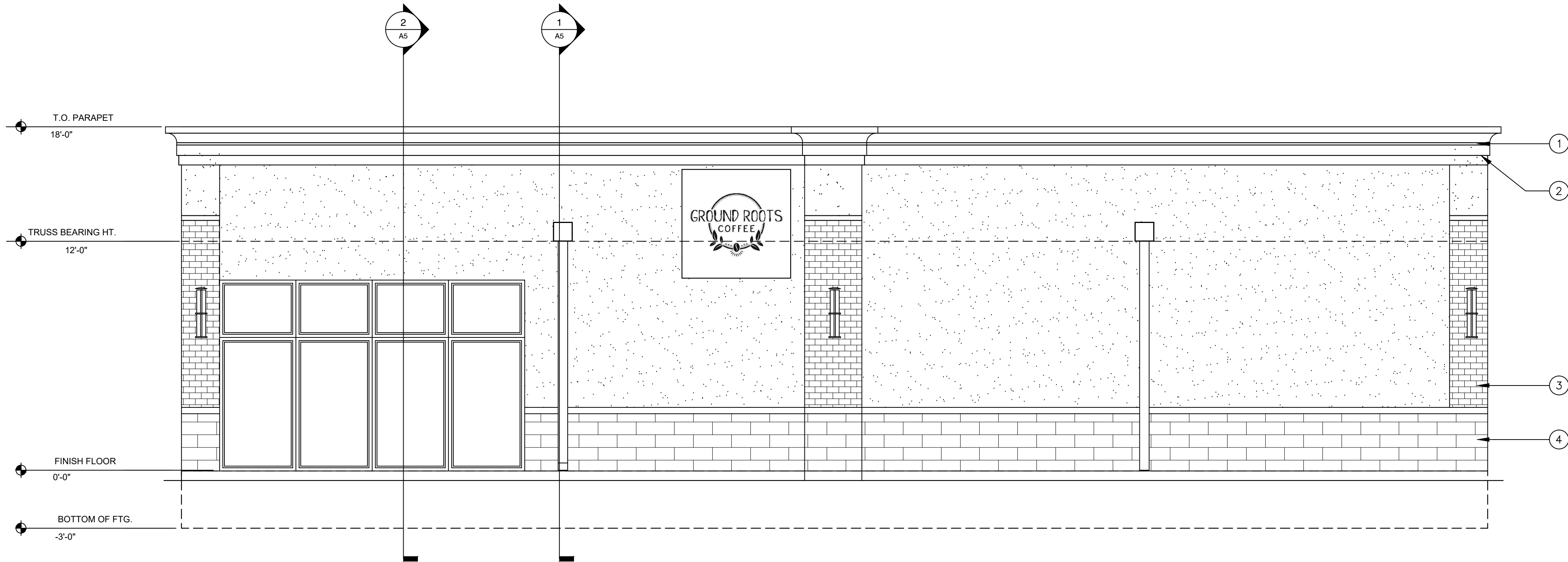
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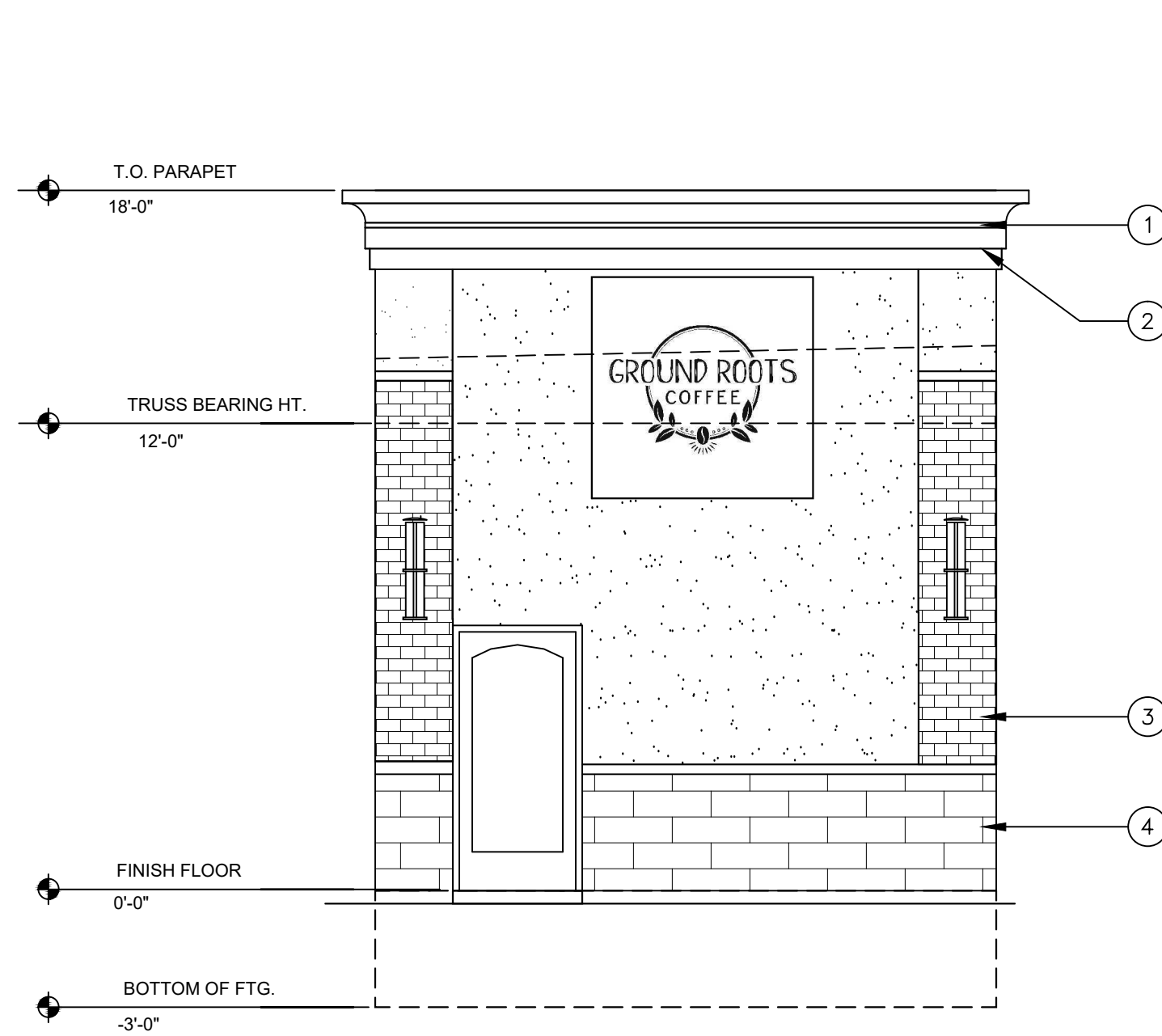
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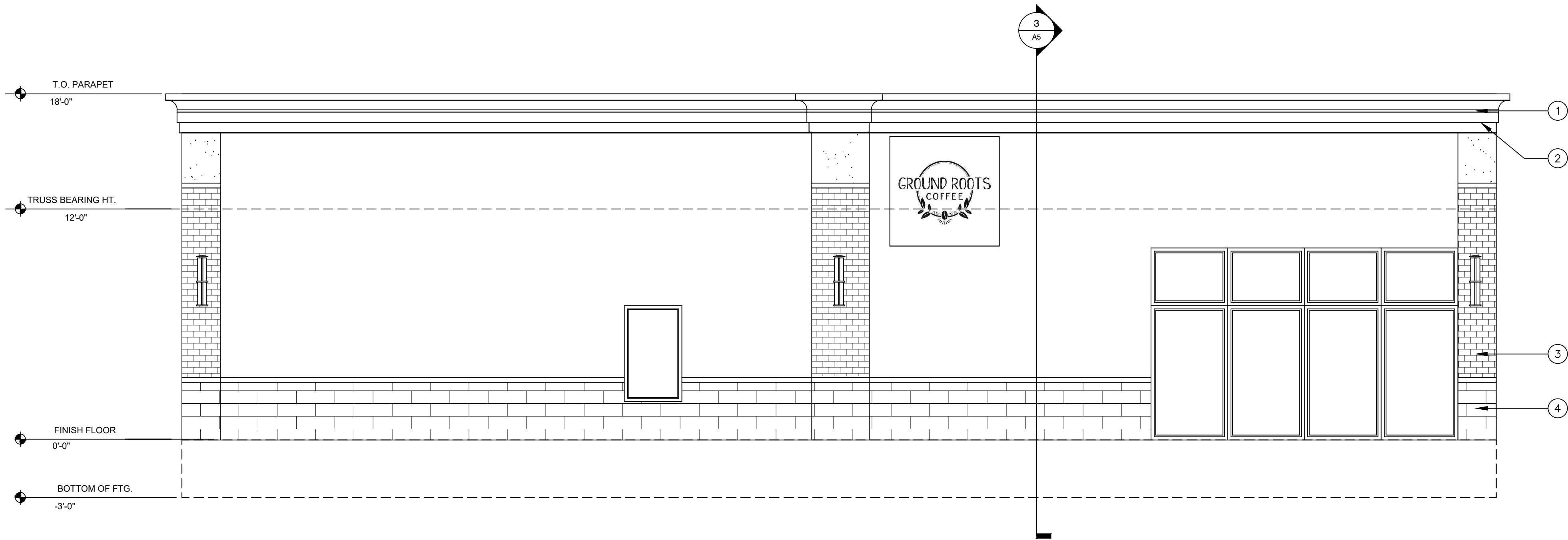
NORTH ELEVATION
Scale 1/4"=1'-0"



EAST ELEVATION
Scale 1/4"=1'-0"



SOUTH ELEVATION
Scale 1/4"=1'-0"



WEST ELEVATION
Scale 1/4"=1'-0"

FINISH SCHEDULE

1. BUILT UP E.F.I.S FOR CORNICE
2. E.F.I.S. MATCH EXISTING SHOPPING CENTER COLOR
3. BRICK MATCH EXISTING SHOPPING CENTER COLOR
4. STONE WAINSCOT MATCH EXISTING SHOPPING CENTER COLOR

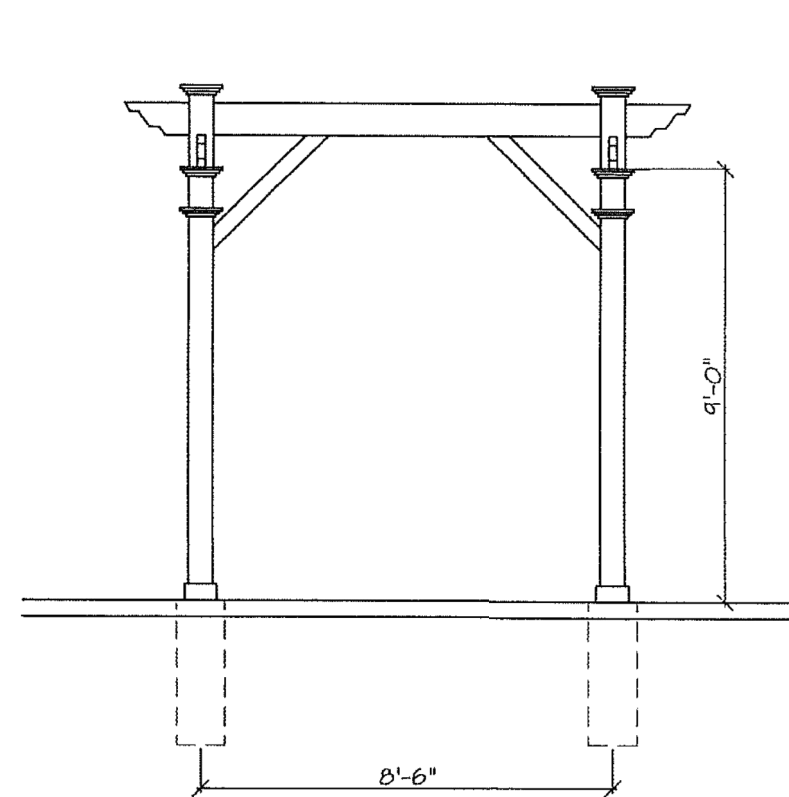
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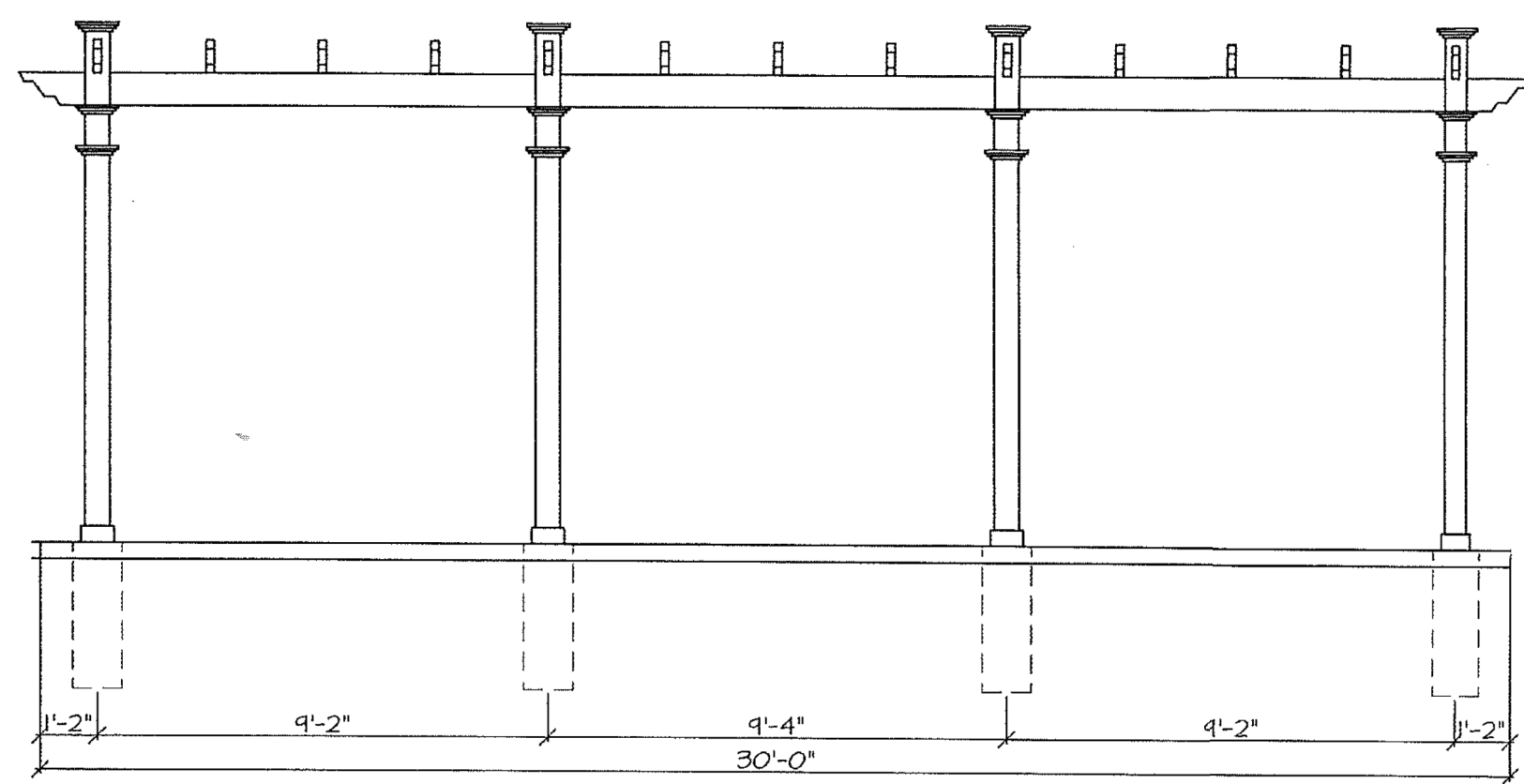
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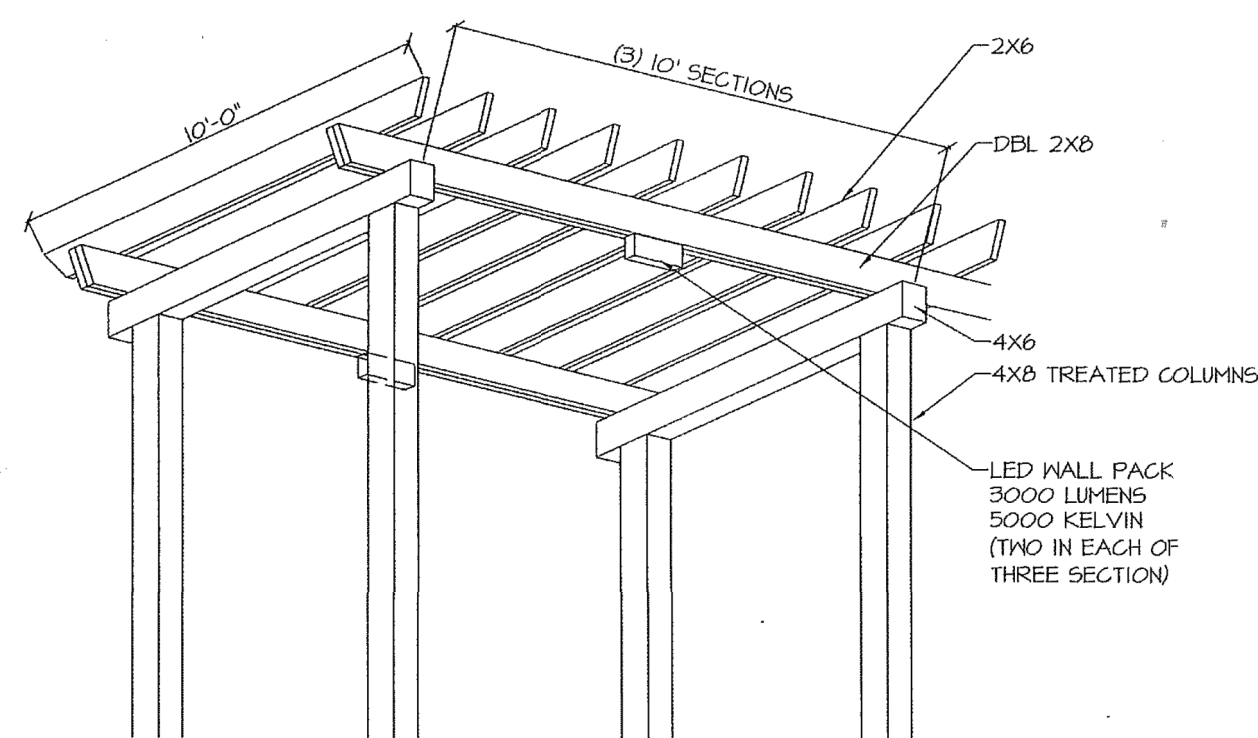
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PURGOLA SIDE ELEVATION
Scale 1/4"=1'-0"

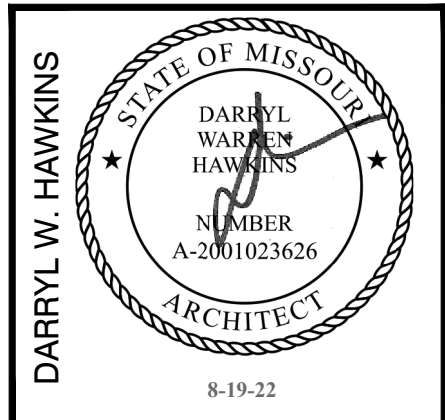


PURGOLA FRONT ELEVATION
Scale 1/4"=1'-0"



PURGOLA DETAIL
Scale 1/4"=1'-0"

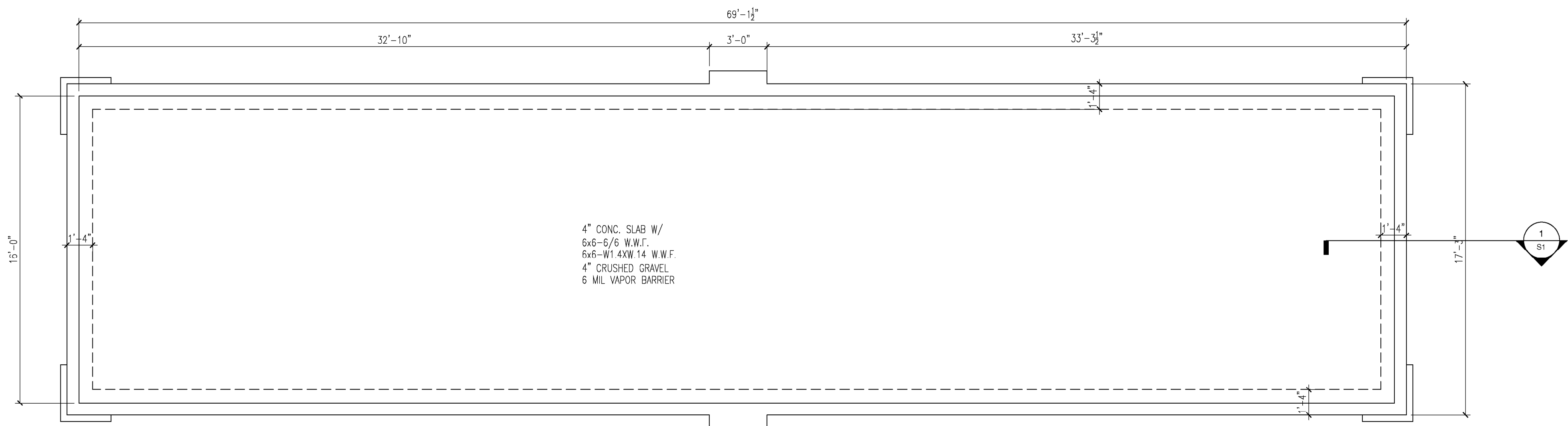
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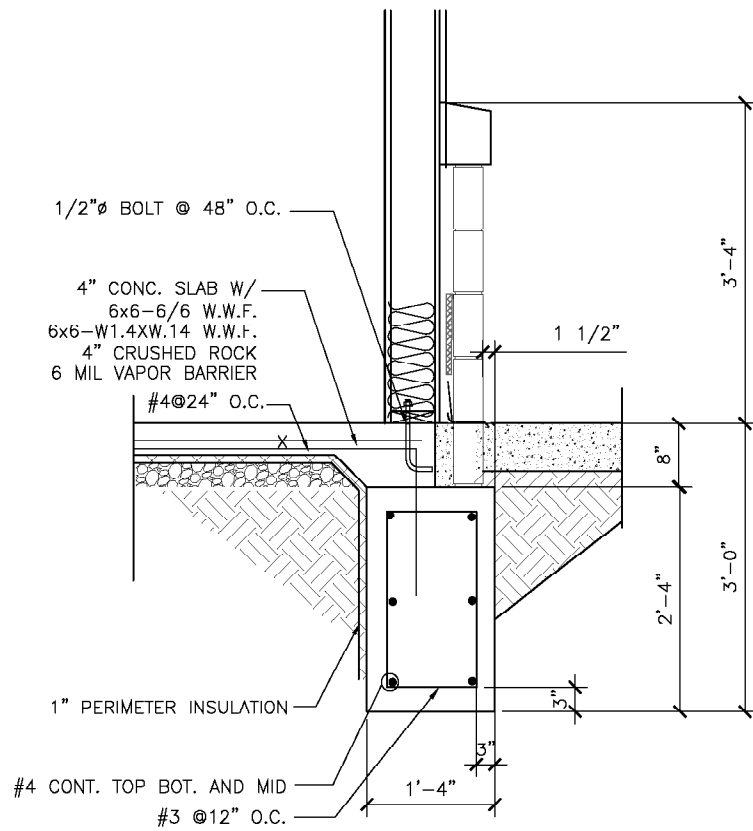
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FOUNDATION PLAN

Scale 1/4"=1'-0"

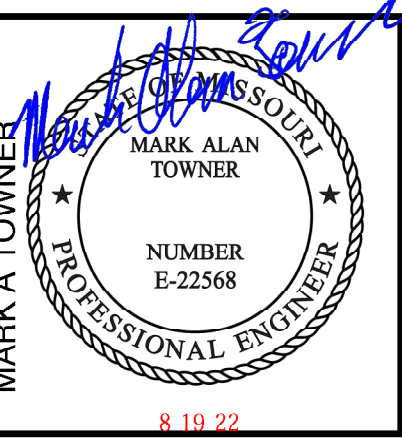
- A. Concrete
- Concrete shall develop a 28 day compressive strength (f'_c) of at least 4000 psi and shall be in accordance with ACI 301. Cement shall be Type I (gray) Portland. Mix shall include a polymeric compound water reducing admixture which complies with ASTM C494 as per manufacturer's recommendations. Air entrainment shall be used. Contractor shall satisfy himself that the mix design is acceptable for its intended purpose.
 - Coarse aggregate: regular weight concrete ASTM C33-81, maximum size as indicated for class of concrete.
 - Fine aggregate: ASTM C33-81, fineness modulus 2.3 to 3.1.
 - Concrete shall be placed and cured in accordance with ACI 302.1R. Finish tolerance shall be in accordance with ACI 117 and shall conform to the following F number requirement:
Specified overall value: $Ff-20/Ff-15$
Specified local value: $Ff-15/Ff-10$
 - Protect concrete from freezing with a blanket or straw covering. Follow ACI 306R-78 for cold weather conditions.
 - Protect concrete from hot weather according to ACI 306R-77.
- B. SOIL
- SOIL BEARING $q=1500$ psf
 - Foundation design is based on the reactions indicated and the soil bearing capacity.



1 SECTION

S1 Scale 1/2"=1'-0"

MARK A TOWNER
8011 PASEO SUITE 201
KANSAS CITY, MO. 64131



GROUND ROOTS COFFEE

3680 NE AKIN DRIVE SUITE 144
LEES SUMMIT, MO

date 5-11-22
drawn by RES.
checked by
revised

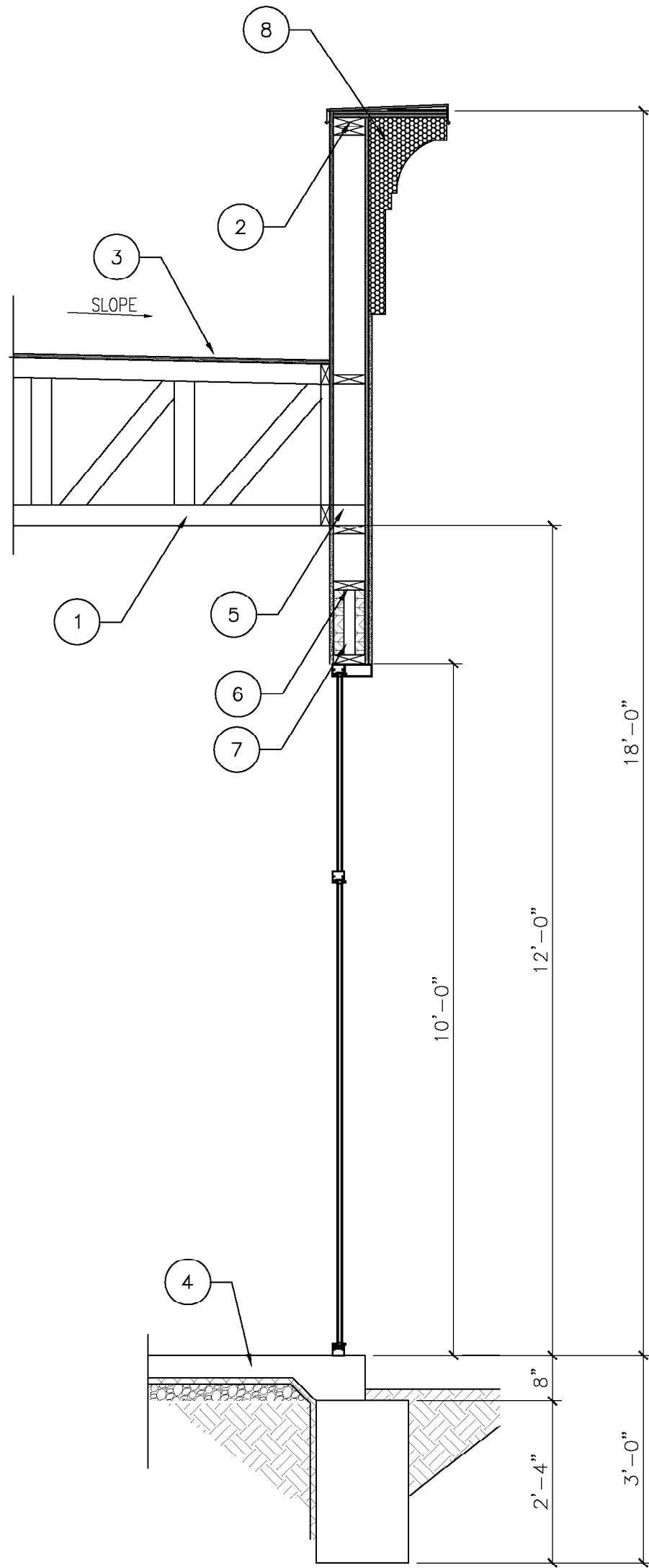
sheet no.

S1

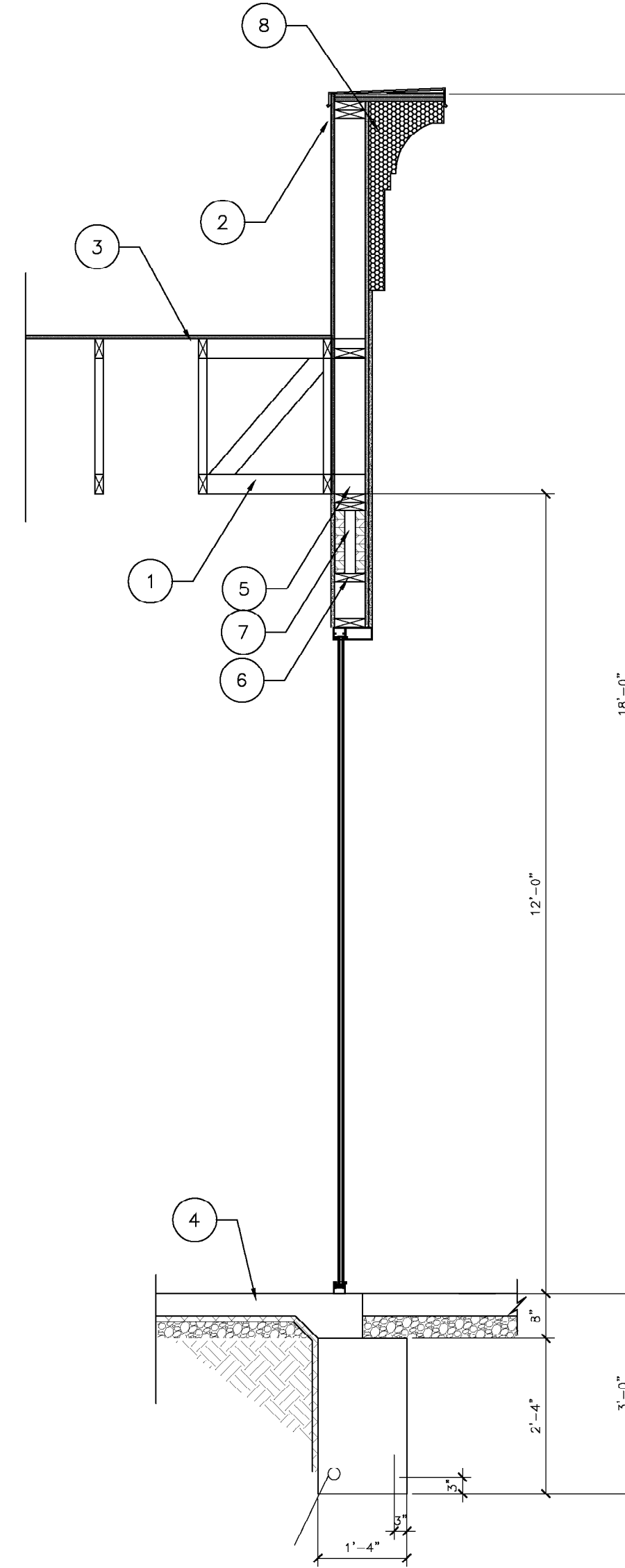


KEYED NOTES

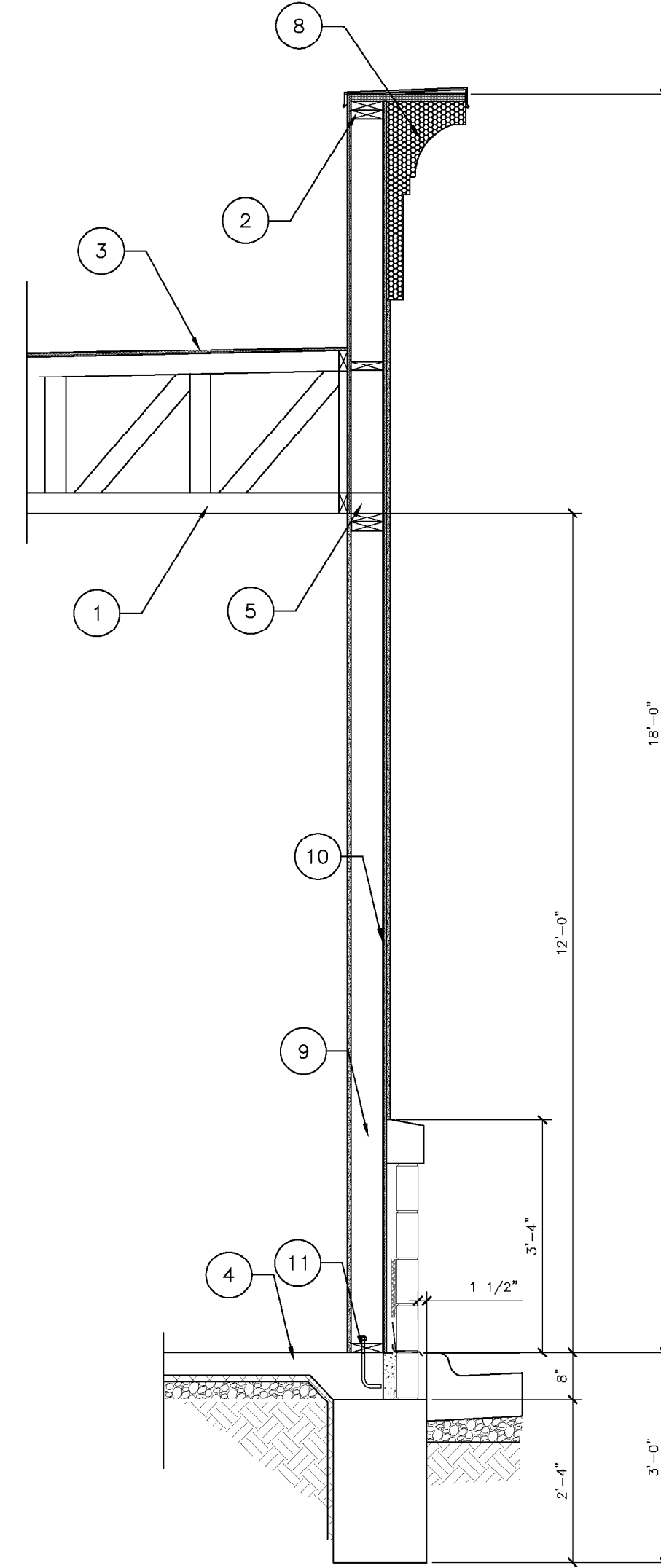
1. PRE-ENGINEERED ROOF TRUSSES BY TRUSS MANUFACTURES
2. DOUBLE TOP PLATE
3. ROOF SHEATHING 15/32
4. SLAB ON GRADE
5. REFER TO TRUSS MANUFACTURER DESIGN FOR TIEDOWN REQUIREMENTS MIN. SIMPSON H2.5@ EACH TRUSS
6. TOP PLATE
7. 3-1 7/8x11 1/4 LVL
8. E.F.I.S CORNICE SEE ARCH.
9. 2X6 @16" O.C.
10. MIN 7/16 WOOD STRUCTURAL SHEATHING MIN.
11. 5/8" A.B. 6'-0" O.C.
12. MIN. 1000 LBS CAPACITY TIE DOWN DEVICE EMBEDDED INTO CONCRETE AND NAILED INTO FRAMING.
13. 2-2X6
14. TENSION STRAP



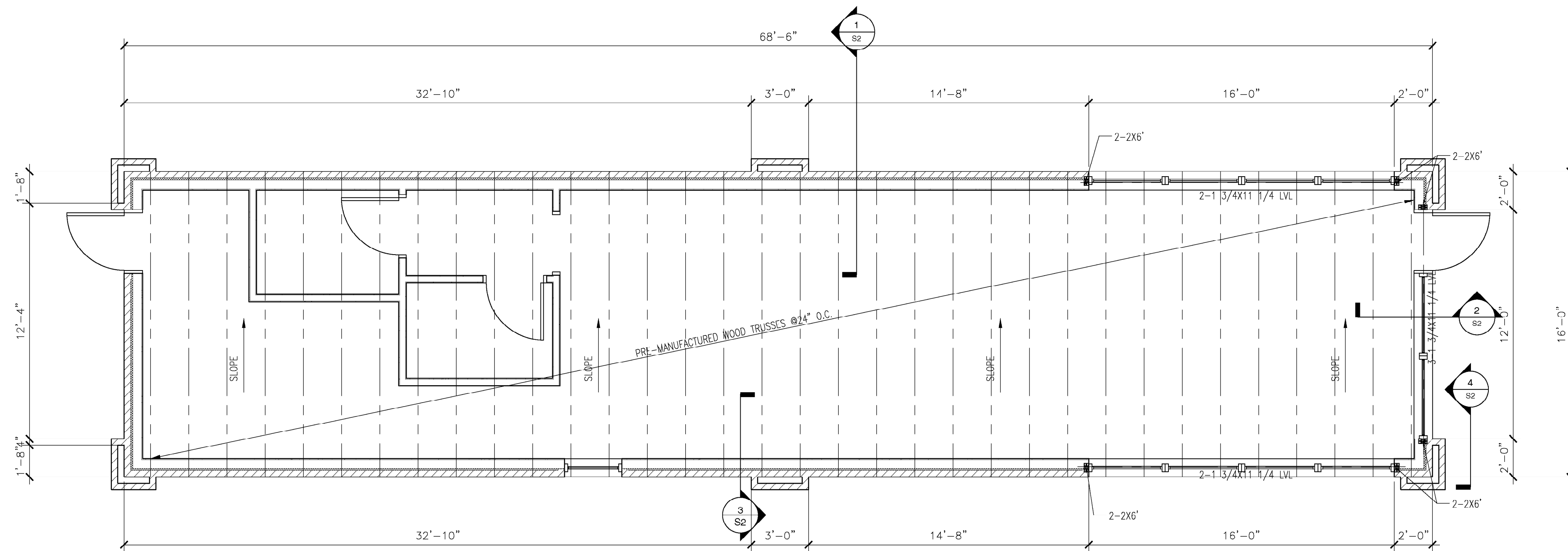
1 SECTION
S2 Scale 1/2"=1'-0"



2 SECTION
S2 Scale 1/2"=1'-0"

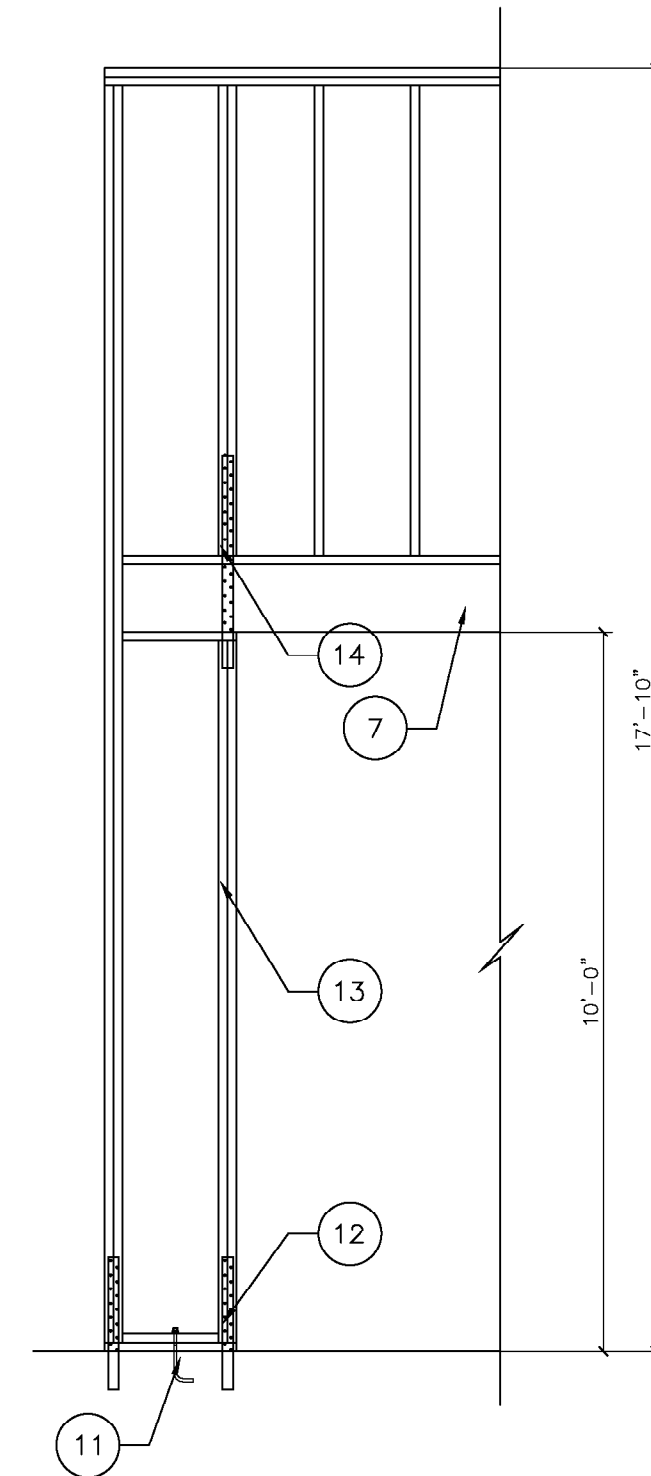


3 SECTION
S2 Scale 1/2"=1'-0"



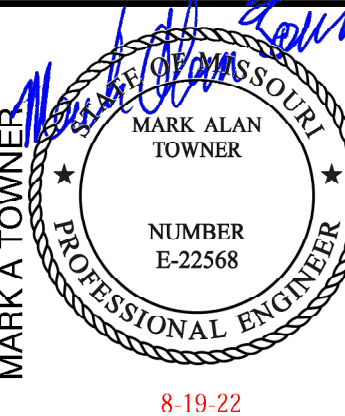
ROOF FRAMING PLAN

Scale 1/4"=1'-0"



4 SECTION
S2 Scale 1/2"=1'-0"

MARK A TOWNER
8011 PASEO SUITE 201
KANSAS CITY, MO. 64131



GROUND ROOTS COFFEE

3680 NE AKIN DRIVE SUITE 144
LEES SUMMIT, MO

date 5-11-22
drawn by RES.
checked by
revised

sheet no.

S2

THE WORK includes new materials, fittings and accessories necessary for a complete functioning plumbing system. The Work also includes final connections to all equipment and equipment systems. All Work shall be in accordance with local codes or ordinances and subject to inspection.

COORDINATE with the Work of other Sections, equipment furnished by others, and with the constraints of the existing conditions of the Project Site.

PROVIDE all fittings, accessories, offsets, and materials necessary to facilitate the Plumbing system's functioning as indicated by the design and the equipment indicated.

VENTS: Provide a complete system of vent piping, consisting of schedule 40 PVC pipe, connectors and fittings. Combine the vent risers in the ceiling space and penetrate through the roof with flashing.

CLEANOUTS: 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.

SHUTOFF VALVES, with unions shall be provided at each hot and cold water connection to each plumbing fixture or equipment, at connections to existing piping systems, and at branches to groups of more than two fixtures, to facilitate isolation for repair or replacement. Valves shall be equal to Jenkins #90-T ball valve, chrome-finished bronze, Teflon seats and packing, 400 lb. W.O.G., solder end.

SUPPLIES AND TRAPS: Provide water sealed traps and/or supplies installed as close as possible to all plumbing fixtures, drains, and equipment items having a waste connection, or requiring water service. Exposed traps and supplies in exposed areas (including cabinet interiors) shall be chromium plated brass, with chrome plated escutcheon plates.

REPAIR DAMAGE to existing elements and restore to original conditions. Provide clean and sanitary conditions at the completion of the Work.

GUARANTEE the Work and the installation for one year after acceptance by the Owner.

BY GAS COMPANY (VERIFY) BY PLUMBING CONTRACTOR

PRESSURE TEST COCK

GAS METER OF CFH CAPACITY SHOWN ON PLANS

UNION (TYP)

STRAINER

REGULATOR TO REDUCE PRESSURE TO 14" W.G. (MAX) OR AS SHOWN OR REQUIRED

SHUT-OFF VALVE

GRADE/PAVEMENT

FLOOR

GAS PIPE TO EQUIPMENT, SIZE AS SHOWN ON PLAN. USE SCHED 40 BLACK STEEL PIPE, PAINT ALL EXTERIOR PIPING

EXTERIOR BUILDING WALL

ANCHOR RISER TO EXTERIOR WALL USING OFFSET RISER PIPE CLAMPS

PIPE INCREASER IF/AS REQUIRED

PROVIDE 6" LONG DIRT LEG AT BOTTOM OF RISER

HANDICAP WATER CLOSET – American Standard model #3351.511.020
Afwall System with Everclean and Selectronic battery–powered flush valve elongated vitreous china toilet, 1.1 GPF Flushometer Toilet elongated bowl powerful direct feed siphon jet action 18" mounting bowl height, bolt caps, wall mounted, high efficiency, condensation channel, fully glazed 2-1/8" rimway, for handicap locations only. The spud shall be Crane model 047000000007000, not a replacement. Recommended working pressure 55 psi at valve when flushing and 80 psi static. Use Selectronic Toilet flush valve battery powered 6065,111 universal sensor flush valve. Use CR-2P Lithium Battery. The seat shall be Zoro #G0820023 open front seat 18 3/8" without cover for elongated bowl.

TOILET PAPER DISPENSER - Install one standard dispenser next to each water closet. Units shall be white in color or match the tile in each bathroom. Install 19" above finished floor.

WATER HEATER – Rheem Performance Platinum 11 GPM natural gas High Efficiency indoor recirculating tankless water heater or equal with 199,000 BTUH input, 120 volt single phase, 172 watts w/ 3/4" gas and water connection line. Install valve with pipe discharge to within 6" of the floor drain. Install shutoff valve on supply side of tank only. Also install State model ETC-2X expansion tank.

FLOOR DRAIN - Oatley Zoro #G6139217 Mfr # 42021 plastic drain cover with 6.75" overall diameter. Include trap. See drawings for exact locations.

BATH MIRROR - 24" x 48". Location one over each lavatory.

MOP SINK - Fiat model #MSB-2424 mop sink shall have 10" high walls. Factory installed drain body shall be stainless steel and designed to provide for a lead caulk or QDC-3 joint to a 2" drain pipe. A combination dome strainer and lint basket made from stainless steel shall be included. Include faucet #830-AA, backflow preventer, mop hanger, hose and hose bracket.

RPZ VALVE - Install one on the main trunk line coming into the building. Unit shall be in the room where the water enters the building. Install floor drain below RPZ valve.

THREE COMPARTMENT SINK - Stainless steel triple compartment sink. Compartment size is 18"x18"x13" deep. Install two splash mount faucets model #K-119 with 16 inch swing spout. Install basket type drain with continuous waste pipe to floor sink. A 2" gap must be formed between the bottom of the pipe and the floor sink. (3CS-1)

SINGLE COMPARTMENT SINK - Advance model 7-PS-50 stainless steel single compartment sink. Compartment size is 17.75"x15"x5" deep. Install one splash mount faucet model #K-121 gooseneck spout. Install basket type drain with continuous waste pipe. Use as hand sink in dishwashing and cooking areas. Install soap and towel dispensers at hand sink. (HS-1)

GREASE INTERCEPTOR

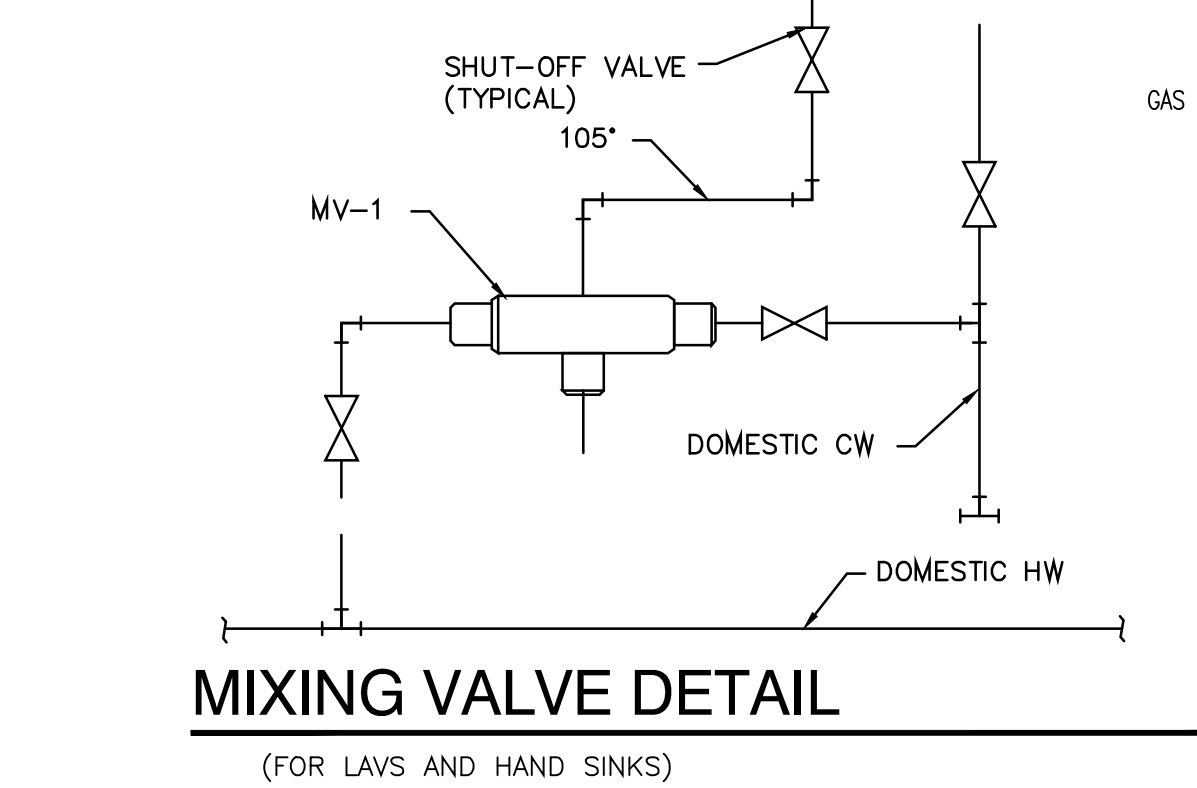
Use 50 lbs grease interceptor with a 35 gpm flow control. Unit shall be polyethylene material and shall be placed under the 3 compartment sink or flush with the floor. The unit shall be cleaned out at once per week. The top shall have a nonskid polyethylene cover. The size is based on the size of the 3 compartment sink.

VOLUME OF 3 COMPARTMENT SINK
 $= (18 \times 18 \times 13) \times 3 = 12636 \text{ CU. IN.}$
 $= 12636 / 1728 = 7.31 \text{ CU. FT.}$
 $7.31 \times 7.24 = 52.94 \text{ GAL.}$

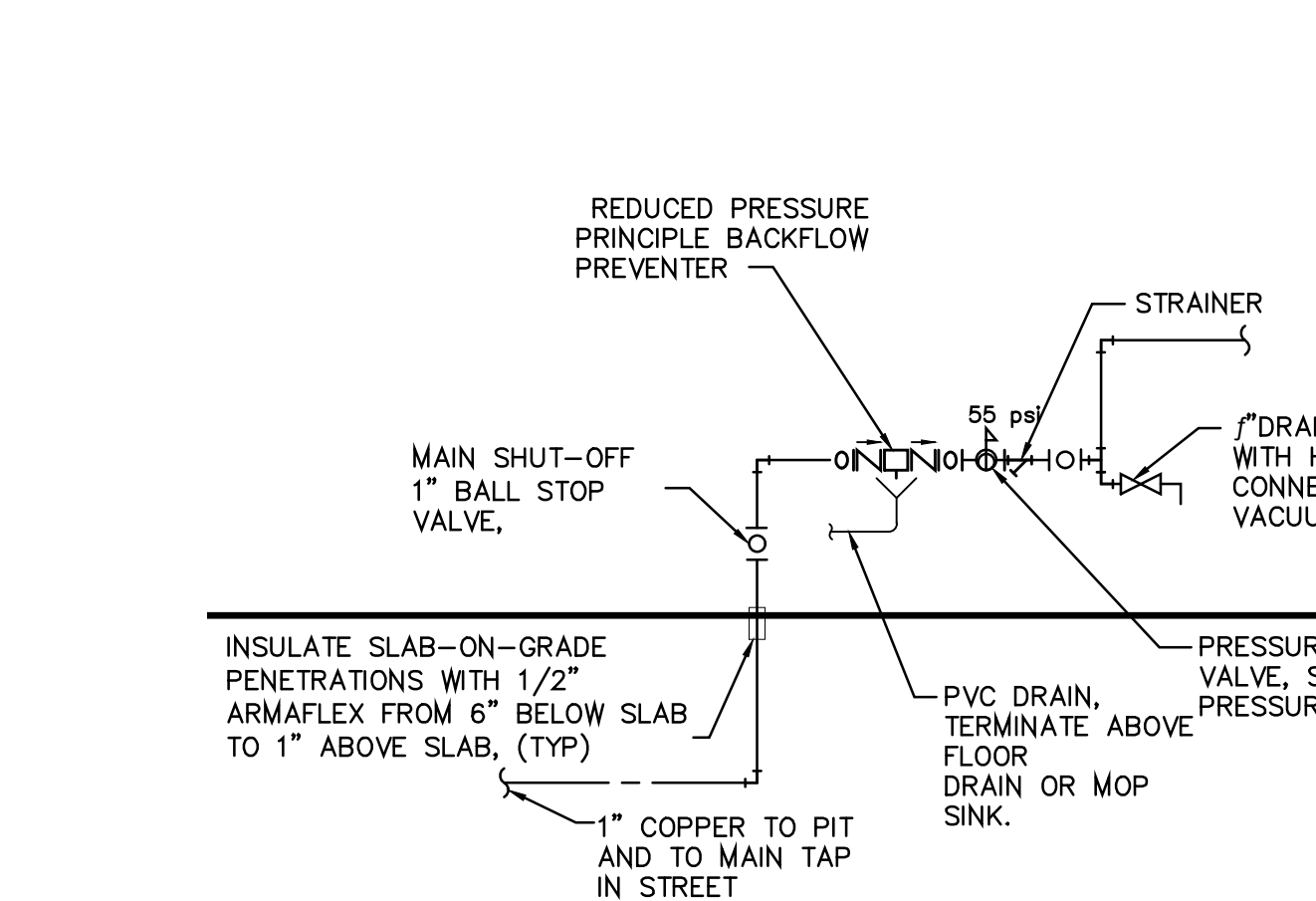
FLOW RATE
 $52.94 / 2.5 = 21.18 \text{ GPM}$

FLOW RATE < 35 GPM
USE 50 LB GREASE INTERCEPTOR

1. Water service to the building is new.
2. Supply and install all supply lines to each fixture.
3. Supply and install all wastewater plumbing with vents as required.
4. Supply and install new hot water heater.
5. Supply and install a valve on the entrance side to hot water heater.
6. Supply and install all fixtures in kitchen.
7. Sanitary sewer line to the building is new.
8. The grease trap is new inside the building.
9. Supply and install all new floor drains.
10. Plumbing contractor shall supply all faucets for all fixtures.
11. Plumbing contractor is responsible for breakage of any plumbing units.
12. Use pex for the supply lines.
13. Use PVC schedule 40 for all sanitary lines.
14. Install approved backflow prevention of all beverage dispensers.

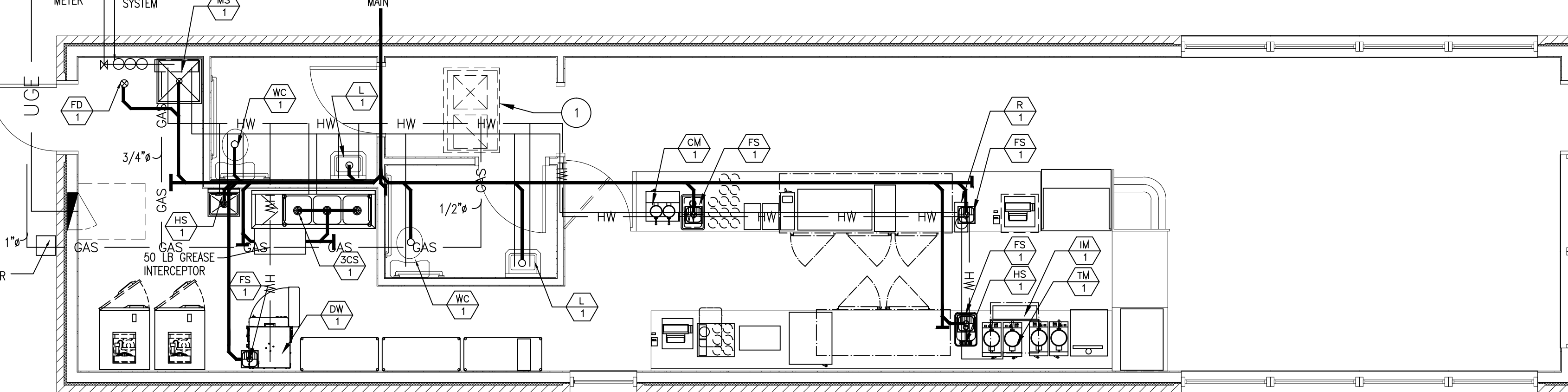
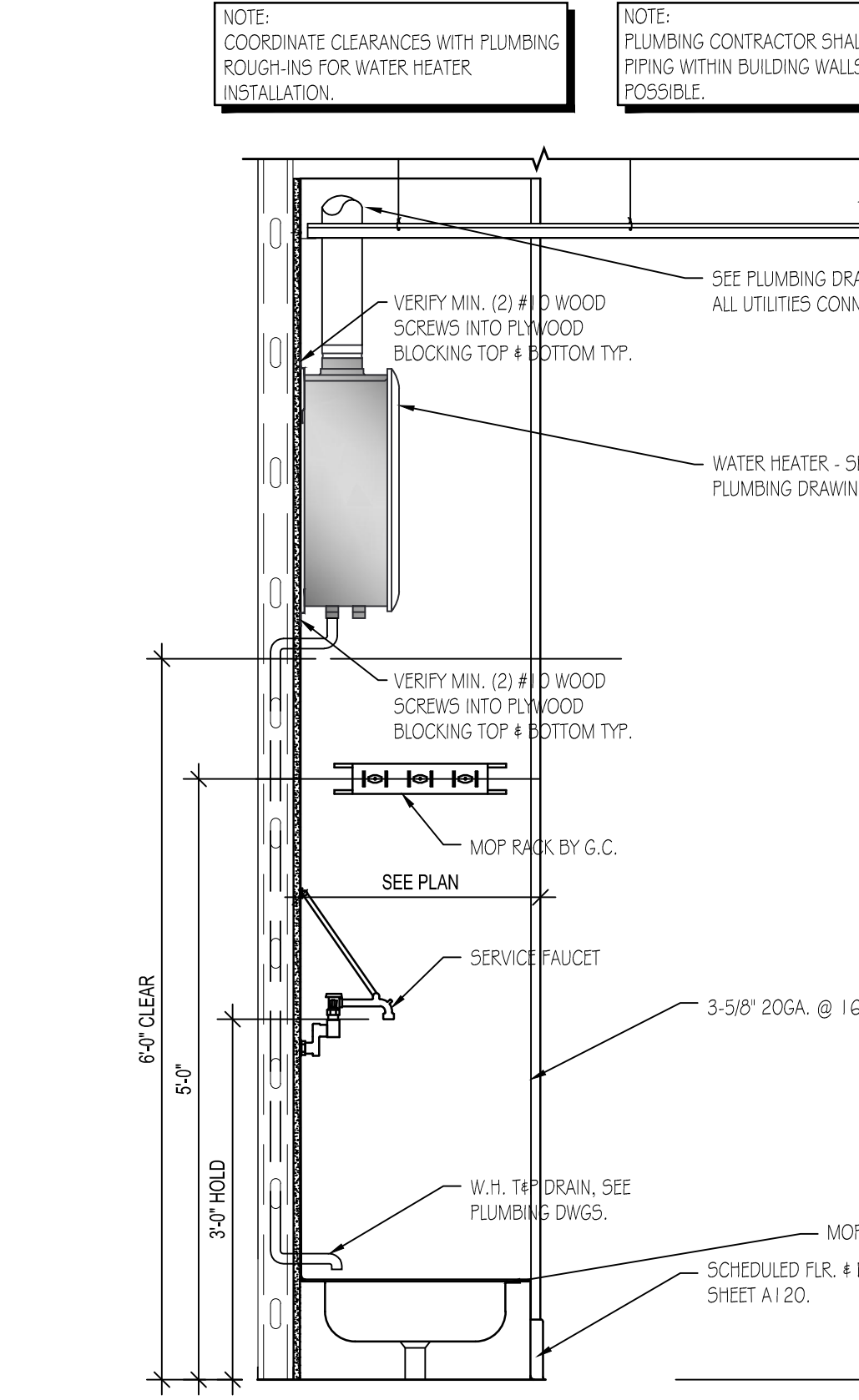


MARK	DESCRIPTION	QTY.	SIZE OF FIX. SUPPLY	WSPU			TOTAL WSPU		
				C	H	TOTAL	C	H	TOTAL
L	LAVATORY	2	1/2"	1.0	1.0	2.0	4.0	4.0	8.0
WC	WATER CLOSET	2	1/2"	2.5	-	2.5	5.0	-	10.0
HS	HAND SINK	2	1/2"	1.0	1.0	2.0	2.0	2.0	4.0
MS	MOP SINK	1	1/2"	1.0	1.0	2.0	1.0	1.0	2.0
FD	FLOOR SINK	4	-	-	-	-	-	-	-
BCS	THREE COMPARTMENT SINK	1	1/2"	1.0	1.0	2.0	1.0	1.0	2.0
R	RINSE STATION	1	1/2"	1.0	1.0	1.0	1.0	1.0	1.0
IM	ICE MAKER	1	1/2"	1.0		1.0	1.0		1.0
DW	DISHWASHER	1	1/2"	1.0		1.0	1.0		1.0
TM	TEA MAKER	1	1/4"	1.0		1.0	1.0		1.0
CM	COFFEE MAKER	1	1/4"	1.0		1.0	1.0		1.0
	TOTAL						13.0	13.0	31.0



MARK	DESCRIPTION	QTY.	DFU	TOTAL DFU
L	LAVATORY	2	1	3
WC	WATER CLOSET	2	4	8
HS	HAND SINK	2	1	2
FD	FLOOR SINK	4	1	3
PCS	THREE COMPARTMENT SINK	1	1	1
MS	MOP SINK	1	1	1
R	RINSE STATION	1	1	1
FD	FLOOR DRAIN	1	1	1
TOTAL				21

GAS DEMAND SCHEDULE:		
NO.	ITEM	BTUH
1	WATER HEATER	149,000
2	FURNACE	80,000
	TOTAL	229,000



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GROUND ROOTS COFFEE

3680 NE NE AKIN DRIVE SUITE 144
LEE'S SUMMIT, MO



KANSAS OFFICE	MISSOURI OFFICE
11032 S Green Rd.	752 Bagnell Dam Blvd.
Olathe, KS 66061	Lake Ozark, MO 65049
913-829-3803	573-365-2100
f: 913-829-6352	f: 573-365-2102

Date:		Issued for:	

Project number:

Drawing:

RES

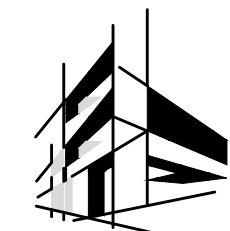
Date:

5-11-22

Sheet Number:

P1

GROUND ROOTS COFFEE
3680 NE NE AKIN DRIVE SUITE 144
LEE'S SUMMIT, MO



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913-828-3903 573-365-2100
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Date:	Issued for:

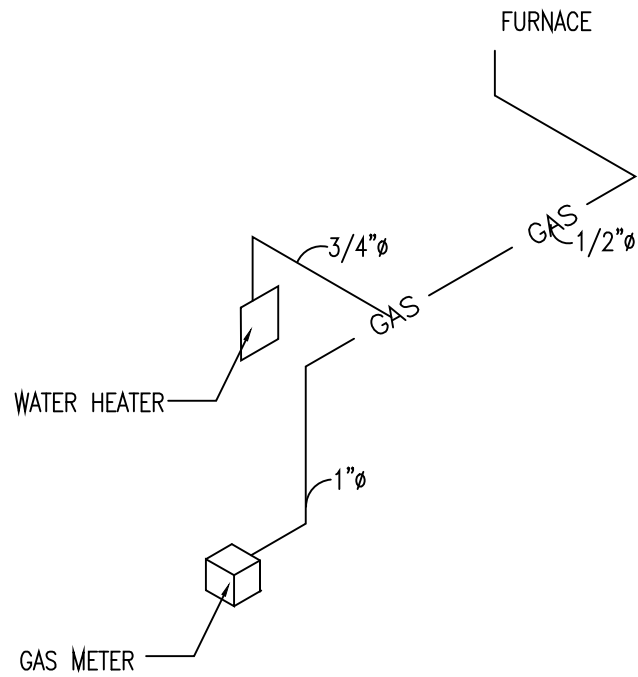
Project number:

Drawn: RES

Date: 5-11-22

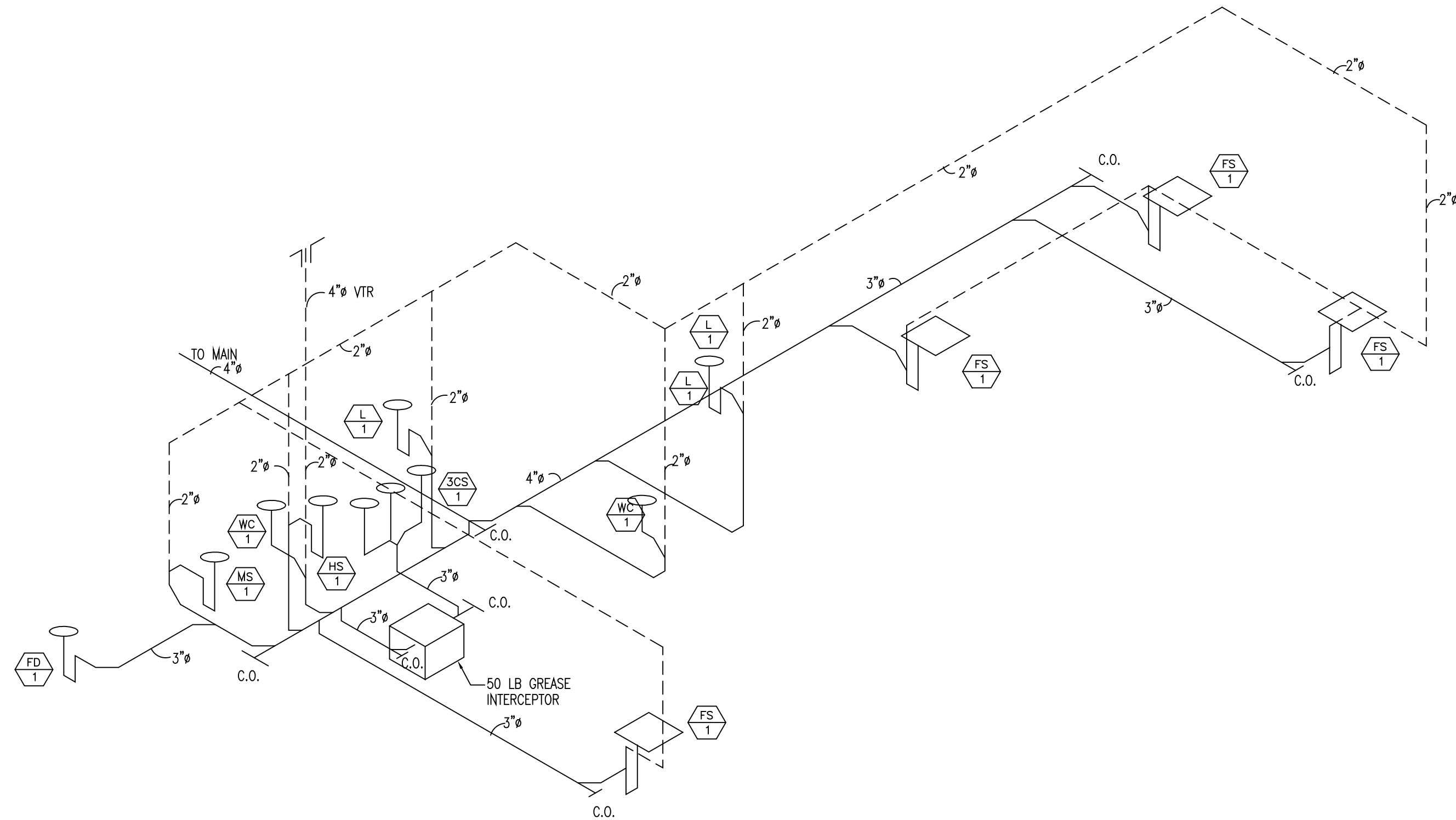
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P2



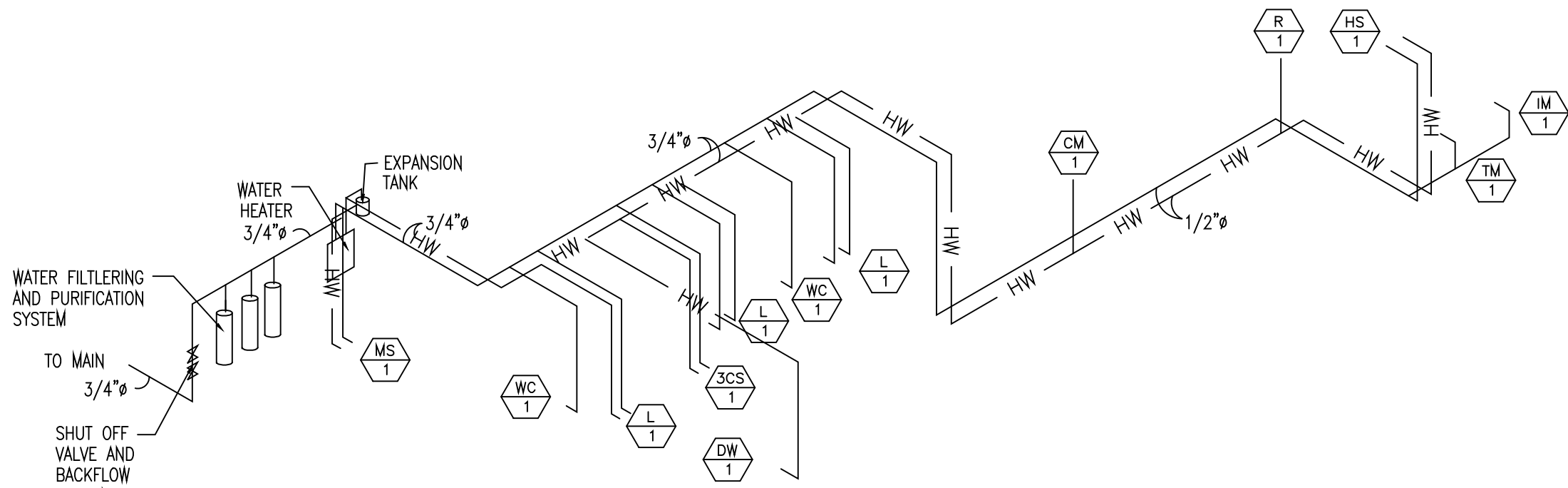
GAS SUPPLY RISER DIAGRAM

use schedule 40 steel piping



PLUMBING FLOOR PLAN

use scheule 40 PVC



PLUMBING FLOOR PLAN

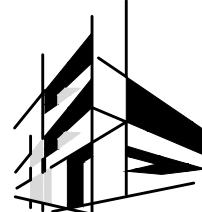
use copper tubing or pex

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GROUND ROOTS COFFEE

380 NE NE AKIN DRIVE SUITE
144 LEE'S SUMMIT, MO



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f: 913-829-6352	f: 573-365-2102






Date:	Issued for:
Project number:	
Drawn:	
	RES
Date:	
	5-11-22
Sheet Number:	

E1

ELECTRICAL SYMBOLS

NOTE: ALL MOUNTING HEIGHTS ARE TO CENTER LINE OF THE OUTLET BOX UNLESS OTHERWISE INDICATED.

SYMBOL	DESCRIPTION	MTG. HT.
	FIXTURE—FLUORESCENT—CEILING	
	FIXTURE—FLUORESCENT—CEILING	
	EXIT LIGHT - CEILING, WALL	
	EMERGENCY BATTERY UNIT	
	EXTERIOR EMERGENCY BATTERY UNIT	
	EXTERIOR SURFACE MOUNTED LIGHTING	
	PANELBOARD 120/208 VOLTS—FLUSHING MOUNTED	6"—6" TO TOP
	DISCONNECT SWITCH—UNFUSED/FUSED FUSE SIZE SHOWN OVER FRAME SIZE	5"—6" TO TOP
	SWITCH—SINGLE POLE, THREE—WAY, SUBSCRIPT DENOTES OUTLET CONTROLLED	3"—10"
	SWITCH—PILOT LIGHT, OCCUPANCY SENSOR	3"—10"
	SWITCH—MOTOR RATED	
	JUNCTION BOX	
	RECEPTACLE—20A—125 VOLTS—DUPLEX, DOUBLE DUPLEX	1"—8"
	RECEPTACLE—20A—125 VOLTS—DUPLEX - MOUNTED FLUSH IN CEILING	
	RECEPTACLE—20A—125 VOLTS—ISOLATED GROUND	1"—8"
	RECEPTACLE—20A—125 VOLTS— GROUND FAULT CIRCUIT INTERRUPTER	1"—8"
	RECEPTACLE—20A—125 VOLTS—COUNTER HEIGHT	
	RECEPTACLE—20A—125 VOLTS— WITH WEATHERPROOF IN—USE COVER	1"—8"
	RECEPTACLE—20A—125 VOLTS - FLOOR MOUNTED	
	MOTOR—SINGLE PHASE, THREE PHASE, HORSEPOWER AS NOTED.	
	SPECIAL RECEPTACLE AS NOTED	
	OUTLET—COMBINATION TELEPHONE./DATA	1"—8"
	HOOD FIRE SUPPRESSION SYSTEM	
	TELEPHONE TERMINAL BACKBOARD	

①	①	DRAWING NOTE, SPECIAL EQUIPMENT NUMBER	
		GROUND CONNECTION	
		BRANCH CIRCUIT-IN CEILING OR WALLS	
		BRANCH CIRCUIT-IN FLOOR	
		HOMERUN TO PANEL-LETTER AND NO. INDICATES CIRCUIT NUMBER.	
		CEILING SPEAKER	

ABBREVIATIONS

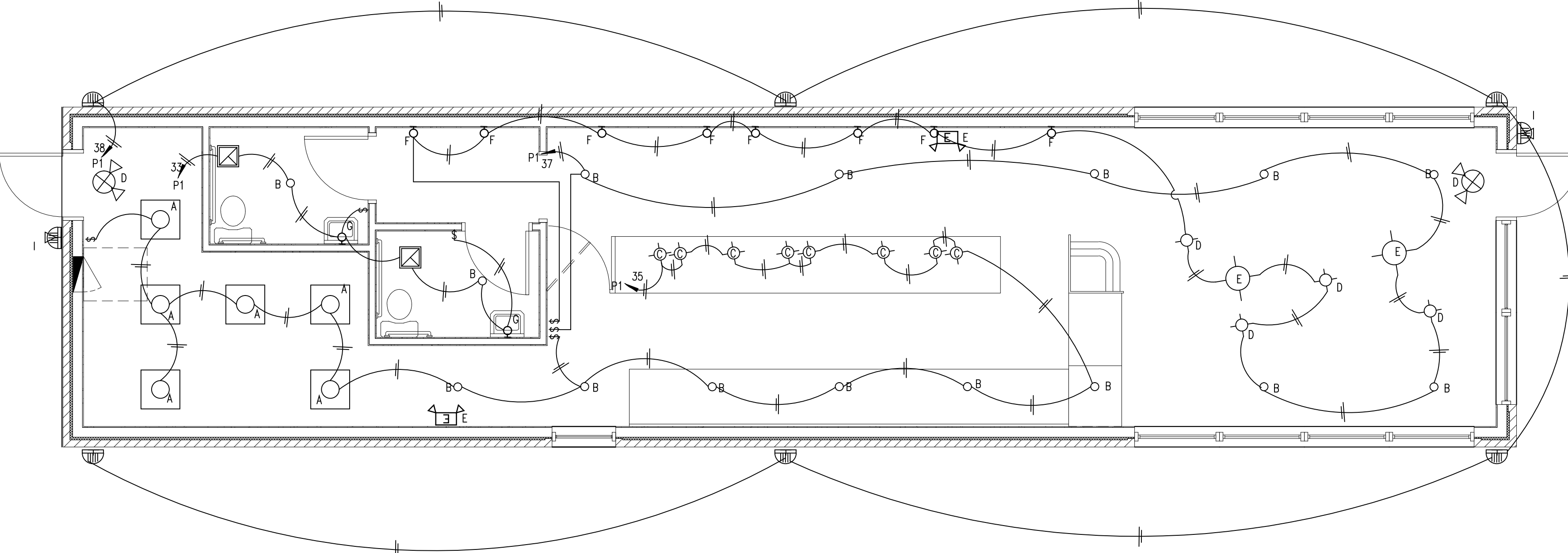
AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
C,CDT	CONDUIT	NEC	NATIONAL ELECTRIC CODE
EF	EXHAUST FAN	NL	NIGHT LIGHT
GF1	GROUND FAULT INTERRUPTER	PL	PILOT LIGHT
HP	HORSEPOWER	RX	REMOVE EXISTING
IG	ISOLATED GROUND	N	NEW
MH	MOUNTING HEIGHT	WP	WEATHERPROOF
MTD	MOUNTED	XR	EXISTING TO REMAIN

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	VOLTS	MOUNTING
A	Lithonia cpx 2ft square flat panel	120	CEILING, RECESSED
B	Lithonia LBR4 4" round downlight	120	CEILING, RECESSED
C	Lithonia LBR4 4" round downlight	120	CEILING
D	EUREKA Quadrant Pendant 23" tall	120	CEILING
E	EUREKA Quadrant Pendant 35" tall	120	CEILING
F	OXYGEN AURORA 12" round wall sconce	120	WALL
G	Electric Mirror 30" Round Illuminated Mirror	120	WALL
H	WALL PAK	120	WALL
I	WALL MOUNTED EXTERIOR EMERGENCY LIGHT , USE 90 MIN. BATTERY BACKUP	120	SURFACE, WALL

NOTES:

PROVIDE BATTERY PACK WITH CHARGER, INDICATOR LAMP, 90 MINUTE POWER, AND CAPACITY TO ILLUMINATE ONE FLUORESCENT LAMP TO 1400 LUMENS. BATTERY PACK ASSEMBLY SHALL COMPLY WITH NEC 700-12.



LIGHTING FLOOR PLAN

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

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MECHANICAL LEGEND

AH 1

GOODMAN HORIZONTAL GAS FURNACE MODEL GMEC 9608004CN with a 96% AFUE and 80,000 BTUH input or equal. Unit is rated at 11.6 amps and requires a 15 amp disconnect in the main panel. The air handler weight is 123 lbs. Provide cooling coil model CHPF3743C6. 1400 CFM

CU 1

GOODMAN MODEL GSXC140421AA Condensing on the roof or equal. Unit is rated at 21.8 MCA and has a 35 AMP disconnect in the electrical panel. The unit has a cooling capacity of 42,000 BTUH. The SEER/EER is 14/12. The condensor weight is 189 lbs.

EF 1

BATH EXHAUST FANS (EF1) – Broan Model 671 fan unit or equal exhaust fan in bathroom with single toilet. Unit is 110 volt with a 70 cfm exhaust capacity and 3" diameter duct fan to sidewall of building. Backdraft damper is at the end of the duct. Use in bathroom and connect to exhaust duct provided in rear corridor. Provide a fire damper where the duct goes through the corridor wall. (2 THUS)

MECHANICAL SPECIFICATION

THE WORK INCLUDES providing new ductwork, grilles, registers, diffusers, duct insulation, thermostats and wiring, and other work as indicated by the Drawings, and as required for a complete and functioning system.

DRAWINGS for HVAC work are diagrammatic, showing the general location, type, layout, and equipment required. The drawings shall not be scaled for exact measurements. Refer to manufacturer's standard installation drawings for device connections and installation requirements. Provide ALL connections, accessories, offsets, and materials necessary to facilitate the system's functioning.

CODE COMPLIANCE: All Work shall comply with the latest edition of the applicable mechanical code, as approved and adopted by authorities having jurisdiction, and applicable sections of NFPA, OSHA, or any interim amendments at the time of the proposal, or other ordinances. All work is subject to inspection.

COORDINATE with the Work of other Sections, equipment furnished by others, requirements of the owners, and with the constraints of the project site. Coordinate with electrical and plumbing subcontractors and their associated drawings as necessary to install all work of the Project. Changes required in the field that require relocation of devices beyond the room or space shown, or those beyond a distance of three feet in any direction of the approximate location shown on the drawings, must be approved by the Engineer prior to fabrication or installation.

EMPLOY experienced tradesmen. The work shall be of the highest industry standards and quality, and shall be acceptable to the Engineer and Owner.

DUCTWORK: Shop fabricated and factory purchased sheet metal ductwork shall conform to ASHRAE and SMACNA standards, minimum of 26 gage. Sheet metal shall be galvanized sheet steel of lock-forming quality, ASTM A-525. Unless otherwise noted, duct dimensions on drawings are net inside clear dimensions on lined ducts, or sheet metal dimensions on unlined ducts. All angle iron used for support shall be galvanized. Connections to walls or floors shall be airtight with angle iron and caulking.

SEAL all duct seams, transverse and longitudinal, air-tight. Provide turning vanes at all elbows or offsets exceeding 33 degrees.

CEILING DIFFUSERS/RETURNS: Provide supply diffusers, grilles and registers, capacities and pattern indicated on the Drawings. The pattern shall be in all four directions unless noted otherwise on the drawings. All return air shall be ducted.

ROUND FLEXIBLE DUCTWORK: Provide Thermafex # GK-M or other equivalent product approved for use by the Engineer, factory assembled class 1 air duct (UL 181) with 1" thick 1 PCF fiberglass insulation and reinforced outer protective cover/vapor barrier. Flex duct shall meet NFPA 90A with flame spread under 25, smoke developed under 50, and shall be rated for 2" w.g. pressure and 0 to 250 degree temperature. Provide all grilles and louvers with a minimum 4" duct starter collars, or sheet metal elbows. Attach flexible ductwork to grilles or duct collars with inner helix banded separately from the external vapor barrier and insulation. Fold over insulation material inward to cover exposed insulation with vapor barrier and band on outside. Provide Panduit straps or metal adjustable bands only. Use twistlock conical tap collars at connections into sheet metal ductwork.

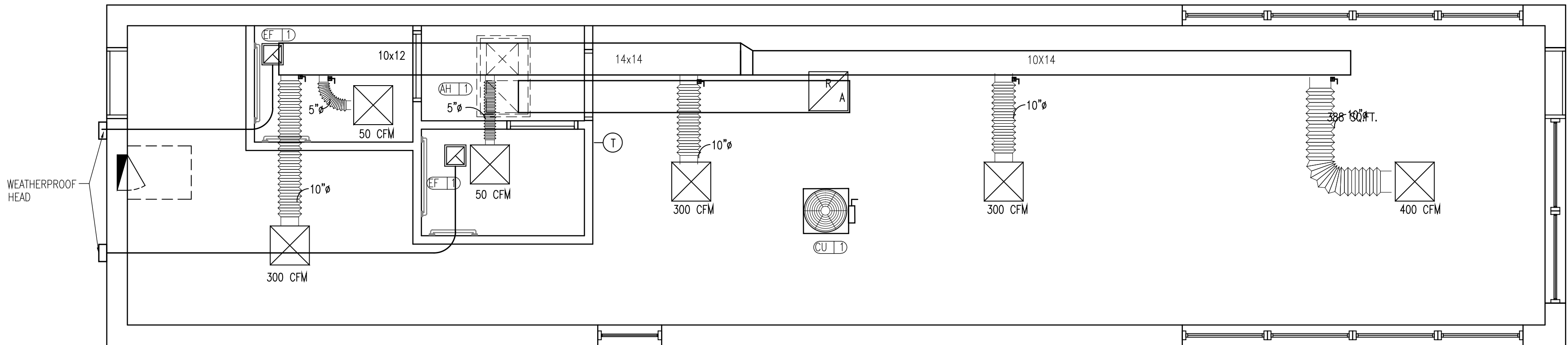
AUTOMATIC TEMPERATURE CONTROL: Provide three wire type proportional thermostats where indicated on the drawings. Provide plenus rated cable or conduit and wire, of minimum 18 AWG wire, for connection from thermostats to their termination point in the air handling unit.

DUCT INSULATION shall be provided on all ductwork. The insulation must be provided on the outside of the duct. The exterior duct from the unit to the building must be insulated with an exterior duct insulation rated for the exterior use.

GUARANTEE all new work from defects in installation, and material defects for a period of one year after acceptance of the system by the Owner.

MECHANICAL NOTES

- The duct sizes are shown on the drawing.
- Install programmable thermostat for control of temperature.
- Install an exhaust fan in each bathroom. The exhaust must be at least 70 cfm per toilet.
- Install weatherproof duplex outlet within 25' of all exterior units
- Install exhaust fans in each bathroom. The fan must be connected to the light so that they come on at the same time. I recommend using a sensor device to control the lighting and fan in each bathroom. The exhaust must be at least 70 cfm per toilet or urinal.
- Fresh air shall be provided through the louver on the outside wall. Use a 6"x 10" duct from the outside to the return air duct of the furnace above the ceiling.
- The duct sizes for the exhaust fans are shown on the drawing. The duct must terminate above the roof or at the outside wall away from any intake vents.
- Install filters in return air vents.
- All units must be behind the barrier on the roof to keep them hidden from the ground.
- All remote ACU units must have a disconnect box at the unit.



MECHANICAL FLOOR PLAN

Scale 1/4"=1'-0"

AIR BALANCE SCHEDULE					
ITEM	OUT DOOR AIR	RETURN AIR	SUPPLY AIR	EXHAUST AIR	PRESSURE
EF 1	140	0	0	-140	0
ACU 1	566	834	1400	0	0
TOTAL	706	834	1400	-140	0
BUILDING PRESSSURE = 0 CFM					

	ZONE	OCCUPANCY	OCCUPANT	PEOPLE	AREA	FRESH AIR					
	FLOOR AREA	DENSITY	LOAD	OUTDOOR	OUTDOOR	TOTAL	EXHAUST	EXHAUST	NUMBER OF	TOTAL	
	SQ. FT.	#1000	P z	AIR RATE (Rp)	AIR RATE (Ra)	SUPPLY	AIRFLOW	AIRFLOW	FIXTURES	EXHAUST	
OCCUPANCY				CFM/PERSON	CFM/SF	AIR	RATE	PER FIXTURE		CFM	
DINING	388	70	27	7.5	0.18	274	0	0	0	0	
KITCHEN	415				0.7	291	0	0	0	0	
HALLWAY	34				0.06	2	0	0	0	0	
BATH EXHAUST							70		2	140	
FRESH AIR						566					
TOTAL SUPPLY AIR						566					
TOTAL EXHAUST AIR										140	

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GROUND ROOTS COFFEE

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M1