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ARCHITECTURE

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LEE'S SUMMIT LOGISTICS BUILDING A LOT I

LEE'S SUMMIT, MO 64086

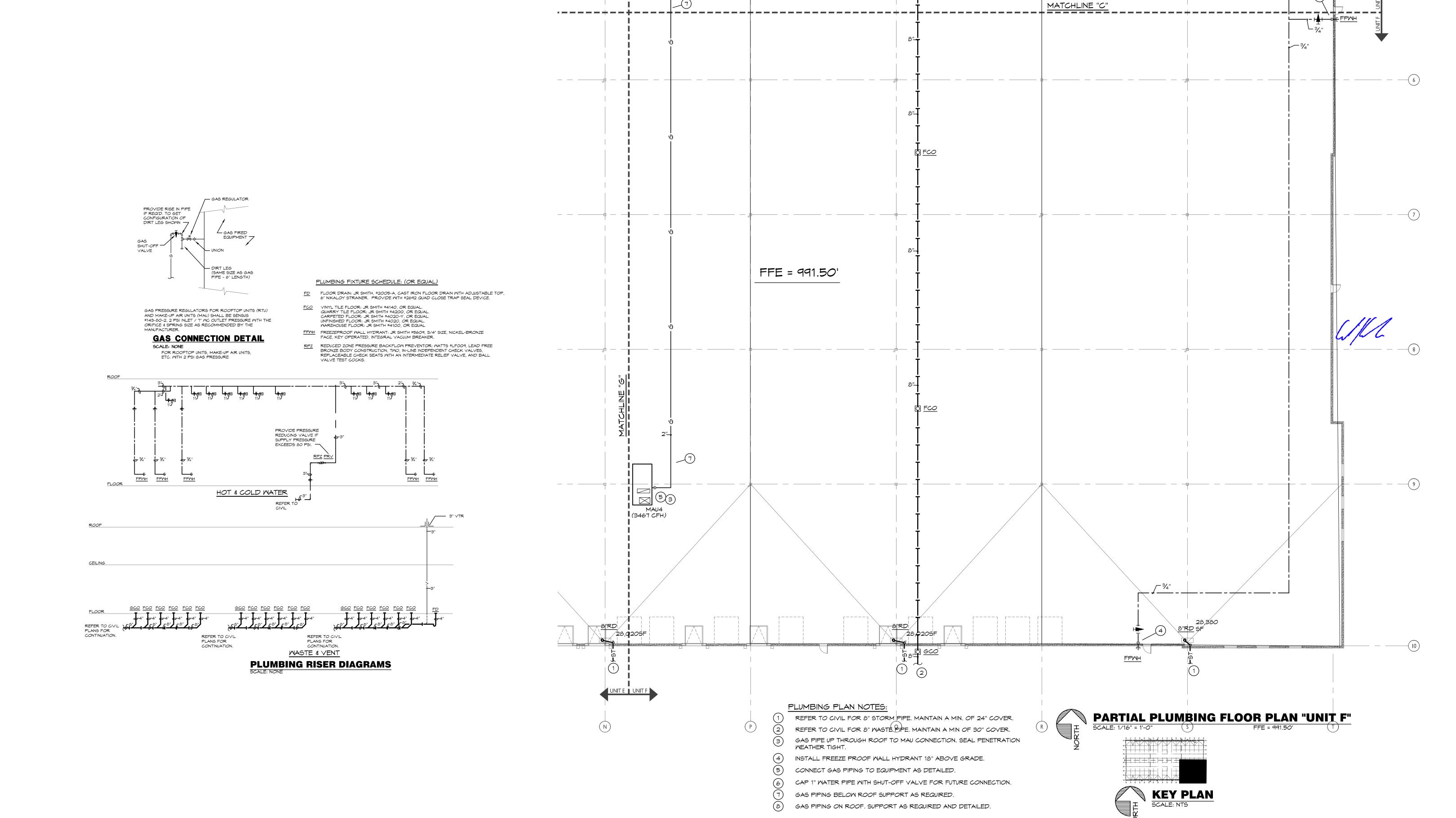
02.18.22

INCORPORATED

5720 Reeder Shawnee, KS 66203 (913)262-1772

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PLUMBING PLAN AREA E



PLUMBING SPECIFICATIONS

- 1. GENERAL PROVISIONS
- A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, NECESSARY FOR THE COMPLETE INSTALLATION OF THE PLUMBING AND MECHANICAL SYSTEMS OUTLINED
- B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATES OF COMPLIANCE OR APPROVAL AS REQUIRED BY THE AUTHORITIES.
- C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE. D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK.
- E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED BEFORE FINAL
- F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY WILL BE
- G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE. 2. OPERATION AND MAINTENANCE MANUALS
- A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS, WIRING DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS,
- B. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION THE OPERATION AND MAINTENANCE MANUALS.

ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.

- C. ALL LITERATURE LISTED ABOVE AND ALL PAPERS LISTING WARRANTIES, ETC. SHALL BE BOUND IN A 3-RING BINDER AND LABELED WITH THE PROJECT NAME, ADDRESS, ARCHITECT, ENGINEER, CONTRACTORS, ETC. 3. MANUFACTURERS:
- A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL BE ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN, UNLESS NOTED OTHERWISE.
- 4. TESTING, BALANCING, AND CLEANING
- A. ALL PIPING SHALL BE TESTED FOR LEAKS BEFORE BEING CONCEALED IN WALL CONSTRUCTION OR
- B. SEWER AND VENT PIPING SHALL BE HYDROSTATICALLY TESTED WITH NO LESS THAN 10 FEET OF HEAD FOR A PERIOD OF NOT LESS THAN 15 MINUTES, PER THE LOCAL PLUMBING CODE, WITH NO LEAKS.
- C. DOMESTIC WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 60 PSI, FOR A PERIOD OF NOT LESS THAN 2 HOURS WITH NO LEAKS.
- D. NATURAL GAS PIPING SHALL BE PNEUMATICALLY TESTED AT A PRESSURE OF NOT LESS THAN 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 50 PSI, FOR A PERIOD OF NOT LESS THAN 2 HOURS, WITH NO LEAKS
- E. BEFORE DOMESTIC WATER PIPING IS PLACED IN SERVICE, ALL DOMESTIC WATER DISTRIBUTION SYSTEMS, INCLUDING THOSE FOR COLD WATER AND HOT WATER SYSTEMS, SHALL BE FLUSHED STERILIZED AND CHLORINATED IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS. THE SYSTEMS SHALL BE THOROUGHLY FLUSHED OF ALL DIRT AND FOREIGN MATTER, THEN FILLED WITH WATER TREATED WITH 50 PPM OF CHLORINE. DURING THE FILLING PROCESS, VALVES AND FAUCETS SHALL BE OPENED SEVERAL TIMES TO ASSURE TREATMENT OF THE ENTIRE SYSTEM. THE TREATED WATER SHALL BE LEFT IN THE SYSTEM FOR 24 HOURS AFTER WHICH TIME THE SYSTEM SHALL BE FLUSHED; IF THE RESIDUAL CHLORINE IS NOT LESS THAN 10 PPM, THE FLUSHING SHALL BE REPEATED. AFTER STERILIZATION, SAMPLES OF WATER IN THE SYSTEM SHALL BE APPROVED BY THE BOARD OF HEALTH.
- A. PROVIDE AN APPROVED WATER HAMMER ARRESTOR FOR EACH PLUMBING FIXTURE SUPPLY AS
- REQUIRED BY FIXTURE MANUFACTURER.
- B. ALL EXPOSED WASTE PIPE SHALL BE CHROME PLATED BRASS PIPE, NO FERROUS PIPE. C. PROVIDE CLEANOUTS AT EACH CHANGE OF DIRECTION AND AT 100 FOOT INTERVALS IN STRAIGHT RUNS. D. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND TRAPS.
- E. CLEANOUTS:
- 1) VINYL TILE FLOOR: JR SMITH #4140, OR EQUAL. 2) QUARRY TILE FLOOR: JR SMITH #4200, OR EQUAL
- 3) CARPETED FLOOR: JR SMITH #4020-Y, OR EQUAL.
- 4) UNFINISHED FLOOR: JR SMITH #4020, OR EQUAL.
- 5) WALL: JR SMITH #4472, OR EQUAL, 24" ABOVE THE FLOOR.
 6) WAREHOUSE FLOORS/FORK TRUCK AREAS: JR SMITH #4100, OR EQUAL, WITH HEAVY DUTY CAST IRON BODY AND ROUND ADJUSTABLE SCORIATED EXTRA HEAVY DUTY NICKEL BRONZE TOP. 7) GRADE: JR SMITH #4256, OR EQUAL, WITH HEAVY DUTY CAST IRON BODY AND COVER.
- F. PROVIDE DIELECTRIC UNIONS WITH APPROPRIATE END CONNECTIONS TO MATCH THE PIPE SYSTEM IN WHICH INSTALLED (SCREWED, SOLDERED, OR FLANGED). PROVIDE DIELECTRIC UNIONS ON ALL PIPING CONNECTIONS TO HOT WATER HEATERS AND EXPANSION TANKS.
- G. WATER HEATERS:
 - 1) EVERY WATER HEATER SHALL HAVE AN APPROVED MEANS INSTALLED ON THE COLD WATER SUPPLY LINE ABOVE THE EQUIPMENT TO PREVENT SIPHONING OF A STORAGE WATER HEATER OR TANK. 2) BOTTOM FED WATER HEATERS AND TANKS CONNECT TO WATER HEATERS SHALL HAVE A VACCUM RELIEF VALVE INSTALLED. ANSI Z21.22.
 - 3) STORAGE HEATERS OPERATING ABOVE ATMOSPHERIC PRESSURE SHALL HAVE AN APPROVED PRESSURE RELIEF VALVE AND/OR TEMPERATURE RELIEF VALVE.
 - H. ALL SEMER PIPING LOCATED INSIDE THE BUILDING SHALL BE INSTALLED WITH THE FOLLOWING SLOPES.) INSTALL 2-1/2" AND SMALLER PIPE AT 1/4" PER FOOT FALL.
- 2) INSTALL 3" 6" PIPE AT 1/8" PER FOOT FALL. 3) INSTALL 8" AND LARGER PIPE AT 1/16" PER FOOT FALL.
- A. DOMESTIC COLD, HOT, AND HOT WATER RECIRCULATING (ABOVEGROUND).
- 1) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88. a) WROUGHT COPPER SOLDERED FITTINGS, ASTM B75 ALLOY C12200. ANSI B16.22. MSS SP-104. b) MECHANICAL PRESS COPPER FITTINGS FOR USE IN PLUMBING OR MECHANICAL APPLICATIONS. ASME B16.22, ASME B16.51, or ASME B16.18. MECHANICAL PRESS COPPER FITTINGS SHALL CONFORM TO IAPMO PS-117 OR
- 2) PEX, HIGH-DENSITY CROSS-LINKED POLYETHYLENE TUBING SHALL BE MANUFACTURED TO THE REQUIREMENTS OF ASTM F876 AND MEET THE STANDARD GRADE HYDROSTATIC PRESSURE RATINGS FROM PLASTIC PIPE INSTITUTE IN ACCORDANCE WITH TR-4/03.
- (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE) a) PEX-A AND PEX-B MEETING ANSI/NSF61 AND ANSI/NSF372 STANDARDS FOR POTABLE WATER SAFETY AND LEAD-FREE STANDARDS AND MUST BE MARKED WITH "PW-G", "NSF-61-G" OR OTHER NSF-APPROVED MARKING. ASTM F2023 FOR USE WITH CHLORINATED WATER.
- (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE) b) PEX MECHANICAL, CRIMP/INSERT OR EXPANSION FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE. INCREASE PEX PIPING SIZE TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER FOR SUPPLY MAINS. (MUST BE INSTALLED PER THE MANUFACTURERS REQUIREMENTS FOR PLENUM USE)
- a) TO BE INSTALLED ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE. b) TO BE INSTALLED ON THE WATER SUPPLY SIDE TO EACH APPLIANCE OR MECHANICAL EQUIPMENT
- 1. GATE VALVE: JOMAR T/S-301G OR EQUAL. LEAD-FREE NSF 61, ANSI B1.20.1. 2. GLOBE VALVE: JOMAR TGG OR EQUAL.
- 3. BALL VALVE: JOMAR JP100PXP OR EQUAL COMPACT LEAD FREE BRASS BALL VALVE. JL842, CSA 3371-12 & 3371-92, FM, CALIFORNIA CODE AB1953, NSF61 ANNEX G APPROVED. 4. BALL VALVE: JOMAR T-100NE OR EQUAL. UL842, FM, CSA, NSF 61-8, MSS SP-110
- B. DOMESTIC COLD, AND HOT WATER (UNDERGROUND).
- 1) TYPE L HARD DRAWN COPPER TUBING, ASTM B-88. a) WROUGHT COPPER SOLDERED FITTINGS, ASTM B75 ALLOY C12200. ANSI B16.22. MS5 SP-104.
- b) MECHANICAL PRESS COPPER FITTINGS FOR USE IN PLUMBING OR MECHANICAL APPLICATIONS. ASME B16.22, ASME B16.51, OR ASME B16.18. MECHANICAL PRESS COPPER FITTINGS SHALL CONFORM TO IAPMO PS-117 OR ASME B16.51.
- 2) PEX, HIGH-DENSITY CROSS-LINKED POLYETHYLENE TUBING SHALL BE MANUFACTURED TO THE REQUIREMENTS OF ASTM F876 AND MEET THE STANDARD GRADE HYDROSTATIC PRESSURE
- RATINGS FROM PLASTIC PIPE INSTITUTE IN ACCORDANCE WITH TR-4/03. a) PEX-A AND PEX-B MEETING ANSI/NSF61 AND ANSI/NSF372 STANDARDS FOR POTABLE WATER SAFETY AND LEAD-FREE STANDARDS AND MUST BE MARKED WITH "PW-G", "NSF-61-G" OR OTHER NSF-APPROVED MARKING, ASTM F2023 FOR USE WITH CHLORINATED WATER.
- b) PEX MECHANICAL, CRIMP/INSERT OR EXPANSION FITTINGS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE, INCREASE PEX PIPING SIZE TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER FOR SUPPLY MAINS.
- c) HDPE, PIGMENTED BLUE THROUGHOUT, CTS SIZES 1"-2" AWWA C901 4710 DR9 PC250 IPS SIZES 2"-3", AWWA C901 4710 DR11 PC200.
- C. DOMESTIC WATER SERVICE, 1"-3"
- 1) TYPE K SOFT DRAWN COPPER TUBING, ASTM B-88. a) Cast Copper Alloy Fittings for Flared Copper Tube, ASME/ANSI B16.26:

AVERAGE LEAD CONTENT OF 0.25% OR LESS.

- 2) HDPE, PIGMENTED BLUE THROUGHOUT, CTS SIZES 1"-2" AWWA C901 4710 DR9 PC250 IPS SIZES 2"-3", AWWA C901 4710 DR11 PC200
- MATERIAL AND INSTALLATION MUST CONFORM TO WATER DEPARTMENT REQUIREMENTS.
- D. LEAD CONTENT OF WATER SUPPLY PIPE AND FITTINGS: 1) PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, UTILIZED IN THE WATER SUPPLY SYSTEM
- SHALL NOT HAVE MORE THAN 8% LEAD CONTENT 2) PIPE, PIPE FITTINGS, JOINTS, VALVES, FAUCETS, AND FIXTURE FITINGS UTILIZED TO SUPPLY WATER FOR DRINKING OR COOKING PURPOSES SHALL COMPLY WITH NSF 372 AND SHALL HAVE A WEIGHTED

PLUMBING SPECIFICATIONS (CONTINUED)

- E. STORM SEWER, SANITARY SEWER, GREASE WASTE, SAND OIL WASTE, AND VENTS. (UNDERGROUND, INTERIOR TO THE BUILDING).
- ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628
- FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235. PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DMV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 891. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
- PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM:(ASTM D2665) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM
- F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. 4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301.
- HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL. HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.
- F. STORM SEMER, SANITARY SEMER, GREASE WASTE, SAND OIL WASTE, AND VENTS. (ABOVE GROUND, INTERIOR TO THE BUILDING).
- ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 628 FITTINGS SHALL CONFORM TO ASTM D 2661. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235. (NOT FOR USE IN A RETURN AIR PLENUM)
- PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DMY FITTING SYSTEM:(ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 891. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866, SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. (NOT FOR USE IN A RETURN AIR PLENUM)
- 3) PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM: (ASTM D 2665) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. (WHERE APPROVED BY LOCAL JURISDICTIONS) (NOT FOR USE IN A RETURN AIR PLENUM)
- 4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS; HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL.
- HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74.
- G. STORM SEMER, SANITARY SEMER, GREASE MASTE, SAND OIL MASTE, AND VENTS. (UNDERGROUND, EXTERIOR TO THE BUILDING).
- 1) ABS SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DMV FITTING SYSTEM: (ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM ABS COMPOUND WITH A CELL CLASS OF 42222 FOR PIPE AND 32222 FOR FITTINGS AS PER ASTM D 3965 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 2680
- FITTINGS SHALL CONFORM TO ASTM D 2680. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2235. PVC SCHEDULE 40 CELLULAR CORE (FOAM CORE) PIPE AND DWV FITTING SYSTEM: (ASTM F1488) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 11432 PER ASTM D 4396 FOR PIPE AND 12454 PER ASTM D 1784 FOR FITTINGS AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 891. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM F 794. FABRICATED FITTINGS SHALL CONFORM TO ASTM F 1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
- PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM: (ASTM D 2665) PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM F 794. FITTINGS SHALL CONFORM TO ASTM F 794. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564.
- 4) HUBLESS CAST IRON SOIL PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310 AND BE CERTIFIED BY NSF® INTERNATIONAL. 5) HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS: HUB AND SPIGOT CAST IRON PIPE AND FITTINGS
- SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74. COPPER DMY: DRAINAGE TUBE SHALL CONFORM TO ASTM B306, MROUGHT COPPER FITTINGS, ANSI B-16.29.
- GALVANIZED STEEL PIPE, WITH MALLEABLE IRON, THREADED FITTINGS, DRAINAGE PATTERN FOR SEWERS SHALL CONFORM TO ASTM A 53. H. NATURAL GAS.
- 1) BLACK STEEL PIPE, SCHEDULE 40, ASTM A53. a) PIPE 3" AND SMALLER; 150 LB. MALLEABLE IRON, THREADED FITTINGS. b) PIPE 4" AND SMALLER; VIEGA MEGAPRESS G FOR WATER AND GAS. CSA LC4, TSSA/ASME B31
- FOR USE WITH ASTM A53 SCHEDULE 40 BLACK IRON PIPE. c) PIPE 2-1/2" AND LARGER, WELDED. d) PLUG VALVE: ROCKWELL NORDSTROM FIGURE NO. 142 OR 143.
- e) BALL VALVE: JOMAR T-100NE. APPROVALS- UL842, FM, CSA, NSF 61-8, MSS SP-110
- 2) GAS PIPING LABELING a) ALL ELEVATED PRESSURE GAS PIPING SHALL BE LABELED EVERY 40 FEET WITH SIGNS INDICATING
- "ELEVATED PRESSURE". 3) GAS PIPING PAINTING: a) ALL BLACK STEEL GAS PIPING LOCATED EXTERIOR TO THE BUILDING SHALL BE PRIMED AND PAINTED TO EITHER
- MATCH ADJACENT EXTERIOR WHERE LOCATED ON OR NEAR EXTERIOR WALL AND PAINTED SAFETY YELLOW WHER! LOCATED ON THE ROOF. I. ALL PIPE HANGERS AND SUPPORTS SHALL BE STANDARD PRODUCTS OF GRINNELL, FEE AND MASON, OR
- ELCEN. HANGER SPACING SHALL BE IN ACCORDANCE WITH MSS-SP-69.
- 1) PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK. ALL SLEEVES SHALL BE OF SUFFICIENT SIZE TO PERMIT PIPE MOVEMENT DUE TO EXPANSION AND CONTRACTION
- AND TO ACCOMMODATE PIPE INSULATION. 2) INTERIOR PARTITIONS: 16 GAGE GALVANIZED STEEL, PACK BETWEEN PIPE AND SLEEVE WITH FIRE
- SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALAN 3) ROOF: PROSET OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WATERPROOF SEAL
- COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF WARRANTY. 4) PROTECTION AGAINST CONTACT: METALLIC PIPING, EXCEPT FOR CAST IRON, DUCTILE IRON AND GALVANIZED STEEL SHALL NOT BE PLACED IN DIRECT CONTACT WITH STEEL FRAMING MEMBERS, CONCRETE, OR CINDER WALLS AND FLOORS OR OTHER MASONRY. METALLIC PIPING SHALL NOT BE PLACED IN DIRECT CONTACT WITH CORROSIVE SOIL. SHEATHING USED TO PREVENT DIRECT CONTACT SHALL HAVE A THICKNESS OF GREATER THAN .008: AND THE SHEATHING SHALL BE MADE OF PLASTIC. ANY PIPE THAT PASSES THROUGH A FOUNDATION WALL OR FOOTING SHALL BE PROVIDED WITH A RELIEVING ARCH, OR A PIPE SLEEVE SHALL BE BUILT INTO THE FOUNDATION WALL. THE SLEEVE
- SHALL BE TWO SIZES GREATER THAN THE PIPE PASSING THOUGH THE WALL OR FOOTING. 5) PLUMBING VENTS: FLASH ROOF VENT INTO ROOFING SYSTEM AS REQUIRED BY THE ROOFING CONTRACTOR TO MAINTAIN EXISTING ROOF WARRANTY ALL PLUMBING VENT TERMINALS SHALL
- TERMINATE A MINIMUM OF 12" ABOVE ROOF OR EQUAL TO HEIGHT OF PARAPET, WHICHEVER IS GREATER.
- A. ALL INSULATIONS AND ACCESSORIES SHALL HAVE A FIRE HAZARD CLASSIFICATION WITH A FLAME SPREAD RATING OF NOT OVER 25, A FUEL CONTRIBUTION RATING OF NOT OVER 50, AND A SMOKE DEVELOPED RATING OF NOT OVER 50, IN ACCORDANCE WITH NFPA. B. PIPE INSULATION - ABOVE GRADE:
- 1) THE PIPING INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 Btu PER in/hr*sqft*F° OR LESS. 2) FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER ASJ JACKET FACTORY APPLIED
- PRESSURE SEALING LONGITUDE LAP JOINT, NO STAPLES, ZESTON PREMOLDED PVC FITTING COVERS. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 3) FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION, UNSLIT OR PRESLIT WITH PRESSURE SENSITIVE ADHESIVE SYSTEM FOR CLOSURE AND VAPOR SEALING, EQUAL TO ARMSTRONG AP ARMAFLEX OR ARMAFLEX 2000
- 4) FOR NON CIRCULATING SYSTEMS, THE FIRST & FEET OF INLET AND OUTLET PIPING BETWEEN THE TANK AND THE HEAT TRAP (INCLUDING THE HEAT TRAP) MUST BE INSULATED
- 5) FOR CIRCULATING SYSTEMS, ALL HOT WATER PIPING IN THE CIRCULATION LOOP MUST BE INSULATED AS SPECIFIED BELOW. 6) INSULATION SCHEDULE:
- ????? a) DOMESTIC COLD WATER 1" FOR PIPING UP TO 1-1/4"Φ, & 1-1/2" FOR PIPING 1-1/2"Φ AND LARGER b) DOMESTIC HOT WATER c) HOT MATER RECIRCULATING d) CONDENSATE DRAINS INSIDE BUILDING 1/2" e) REFRIGERANT SUCTION 3/4" FOR PIPING UP TO 1-1/4" P, \$ 1" FOR PIPING 1-1/2" AND LARGER F) HORIZONTAL STORM PIPE
- g) HORIZONTAL STORM OVERFLOW PIPE 1/2" ????? h) ROOF DRAINS 1" INSULATION SHALL BE PROVIDED AT ROOF DRAIN BODY AND A MINIMUM OF 10' OF HORIZONTAL PIPING OR A MINIMUM OF 5' IF COMBINATION OF HORIZONTAL AND VERTICAL STORM PIPING DOWNSTREAM OF ROOF DRAIN BODY.

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RELEASED FOR

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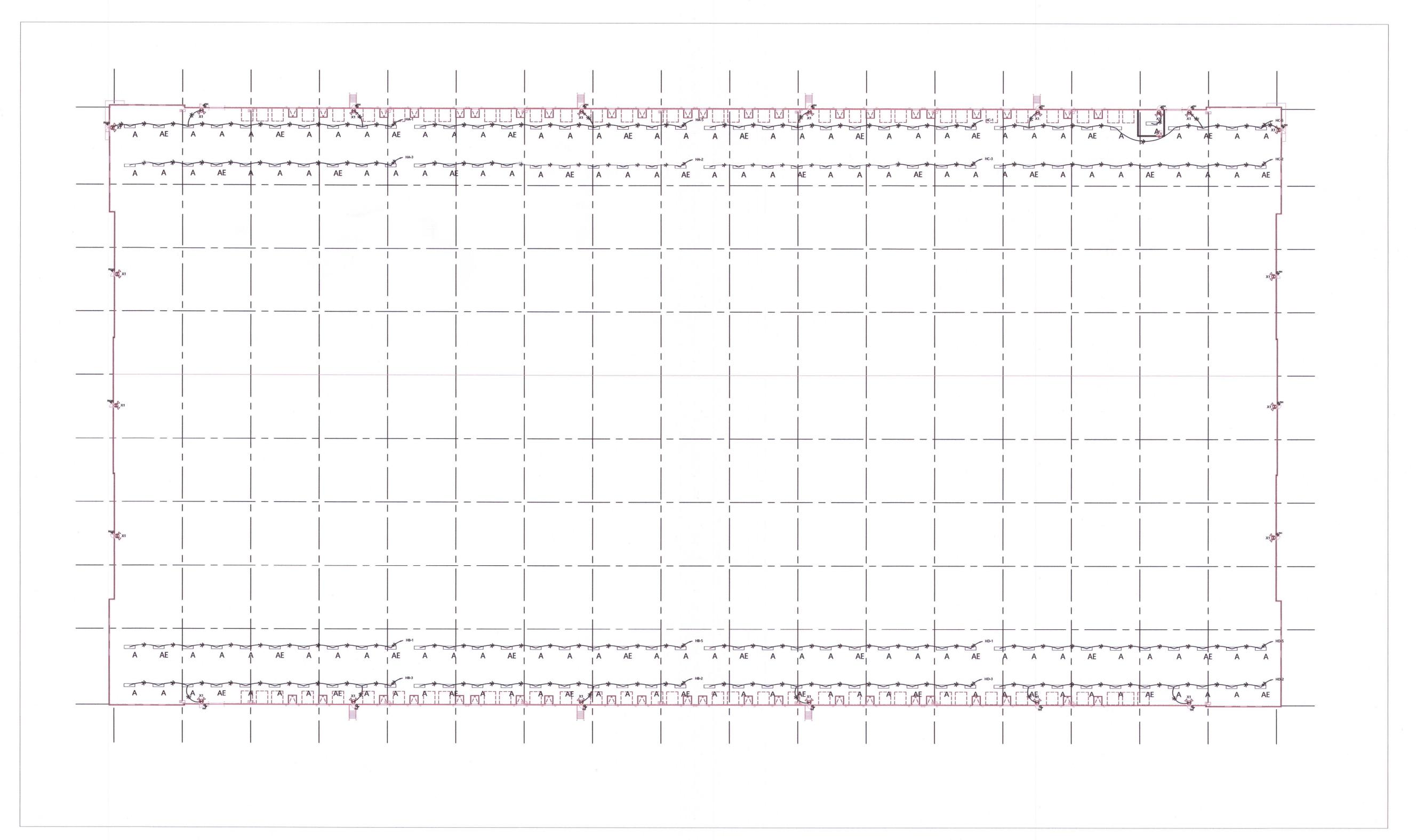
LEE'S SUMMIT LOGISTICS BUILDING A LOT I

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

PERMIT SET	02.18.22

210300

SPECIFICATIONS



LIGHTING PLAN

1" = 40'

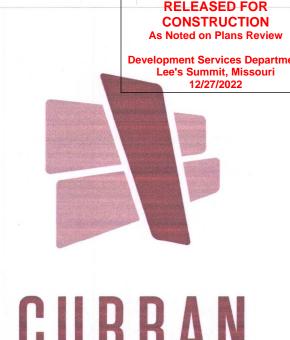
HERITAGE ELECTRIC, L.L.C. 841 N. MARTWAY Olathe, Kansas phone (913) 663 1200 fax (913) 663 2025



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4/26/22



ARCHITECTURE
5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216

O :: 317 . 288 . 0681 F :: 317 . 288 . 0753



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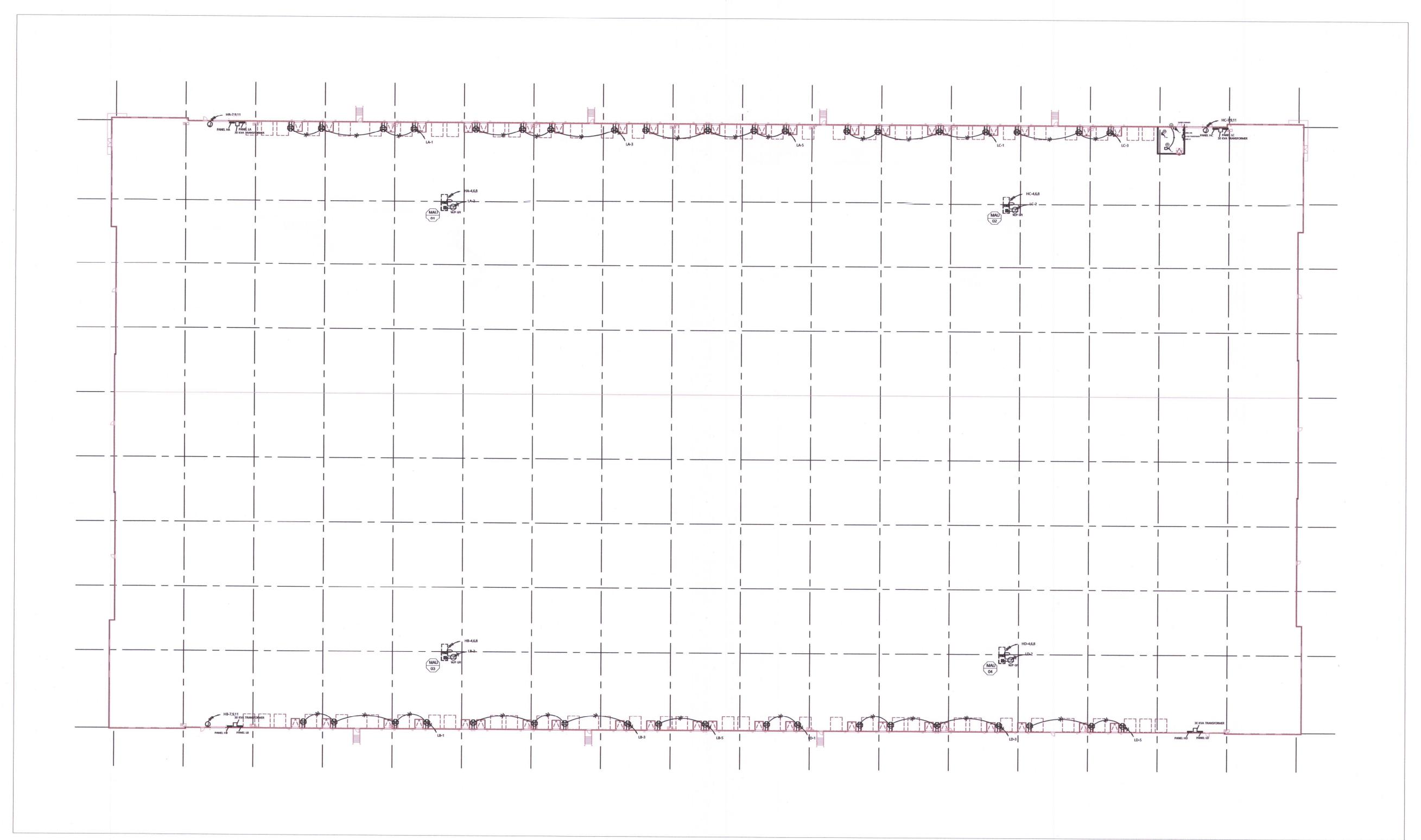
LEE'S SUMMIT LOGISTICS BUILDING A LOT I

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

ERMIT SET	

210300

E1.00



POWER PLAN

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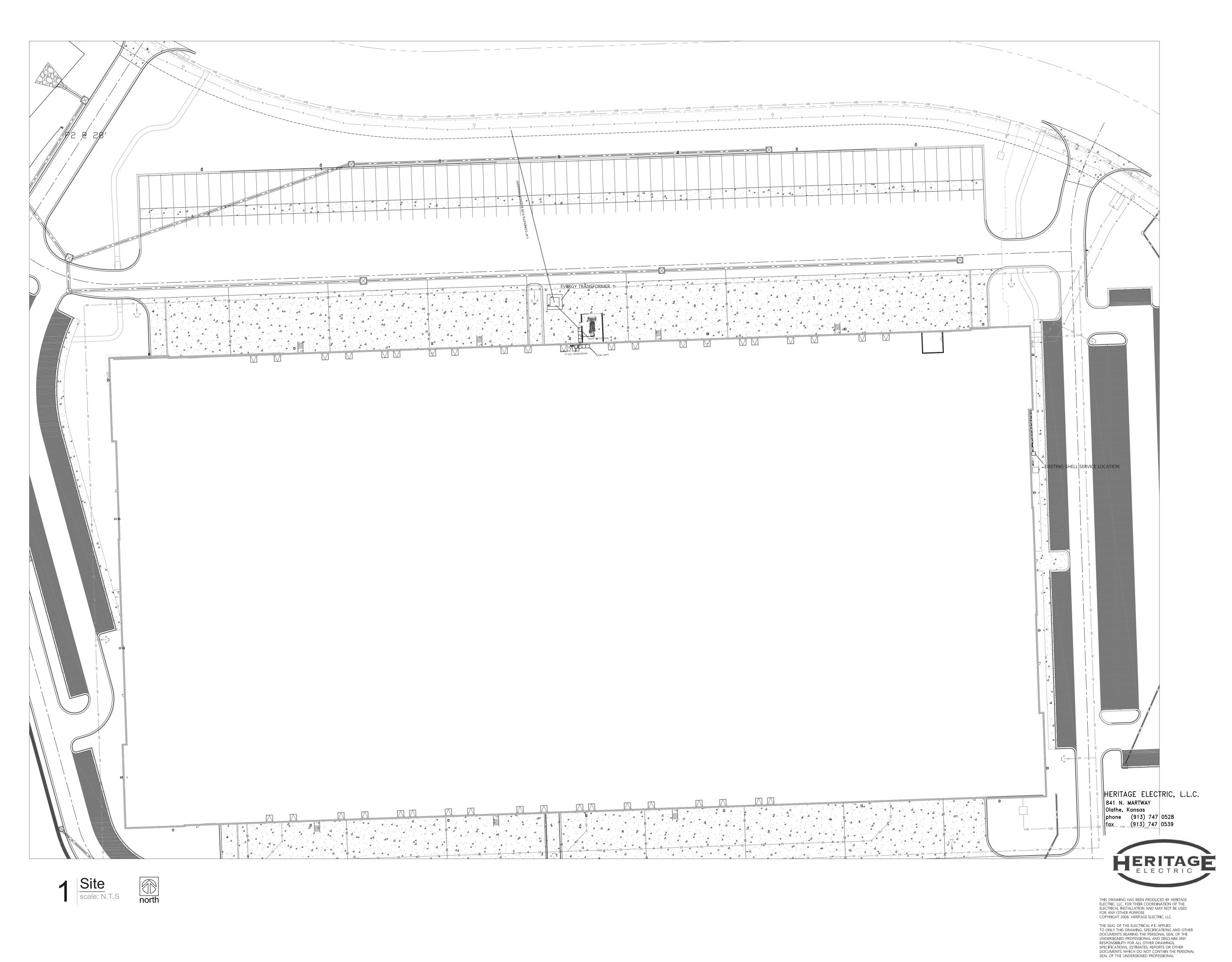
LEE'S SUMMIT LOGISTICS BUILDING A LOT I

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

ΓES
02.18.22

210300

E2.00





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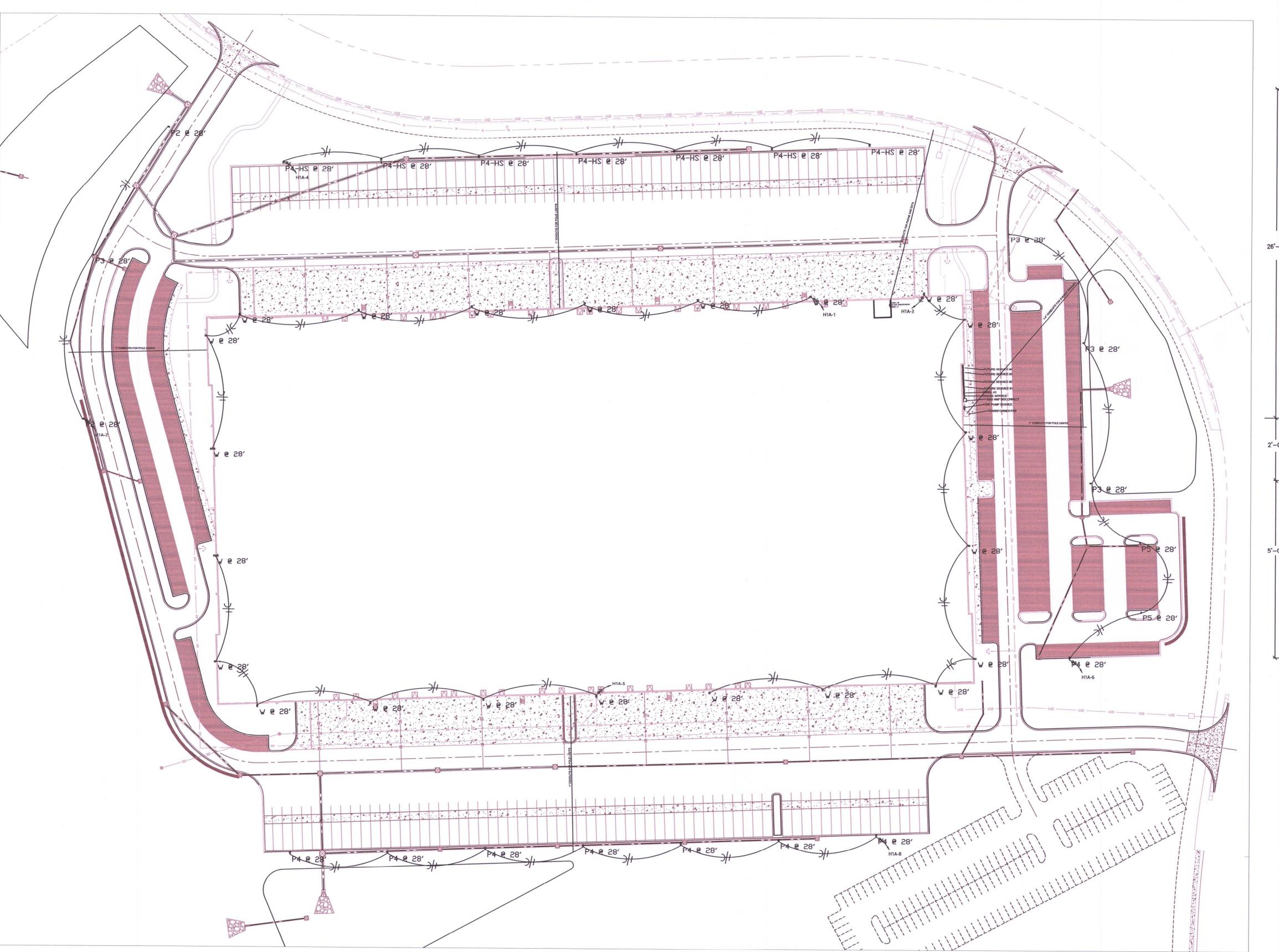
NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

PERMIT SET	ı
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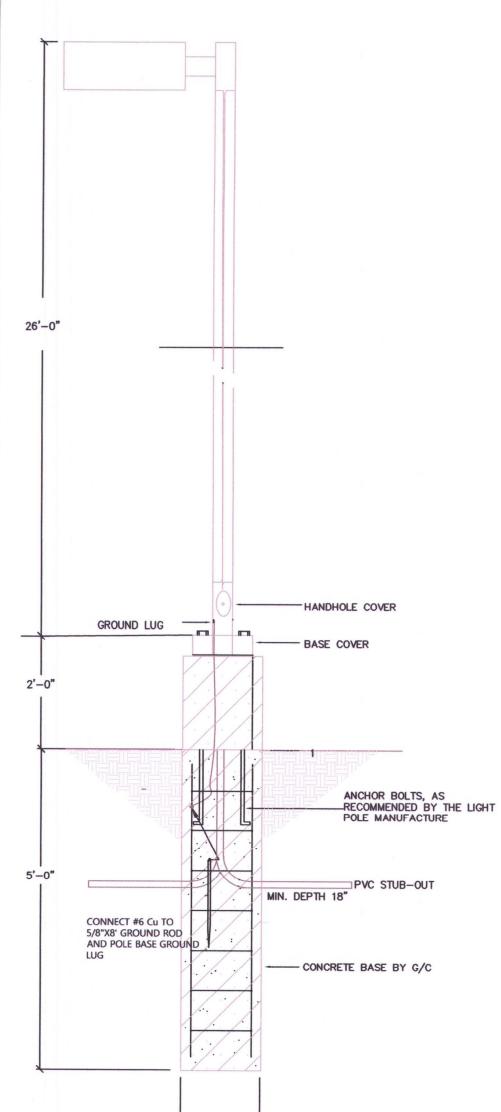
210300

_ _

E4.0



1) SITE 1/64" = 1'



<u></u>2'−0"——



RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

CURRAN ARCHITECTURE

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LEE'S SUMMIT LOGISTICS BUILDING A LOT I

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

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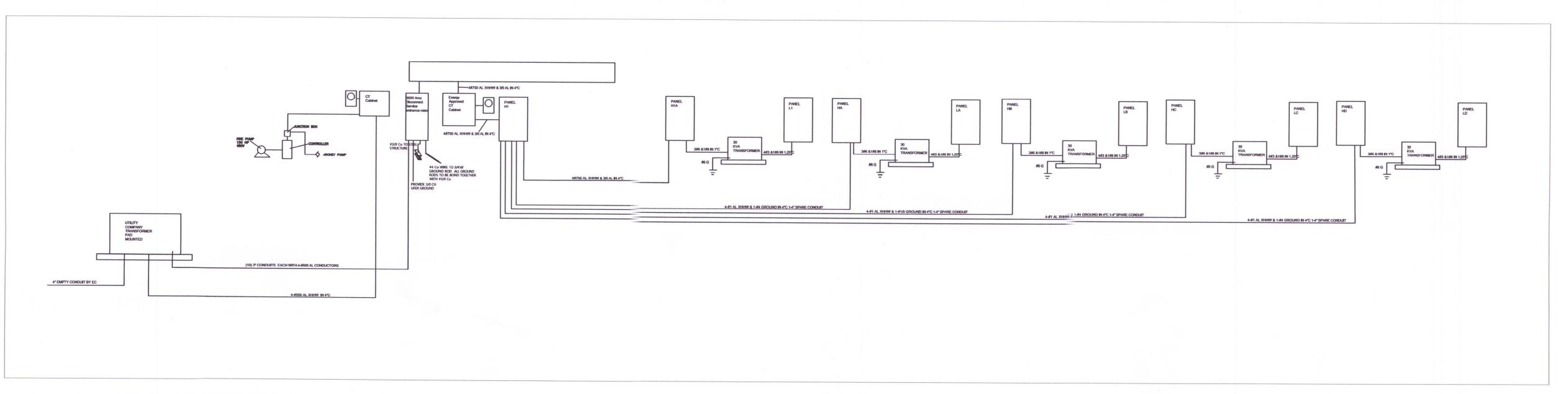
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NW Cashu NUMBER

Carles on the Carles	ISS	UE DA	TES	
PERMIT SET				02.18.2
				,

210300

E5.00





		LIGHT FIX	TURE SCH	EDULE		
TYPE	MANUFACTURER	CATALOG NO.	LAMPS	MOUNTING	VOLTS	REMARKS
A	Columbia Lighting	PEL4-40MV-EDU-DS1360	LED	CEILING	277	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR
AE	Columbia Lighting	PEL4-40MV-EDU-ELL40-PS1 360	LED	CEILING	277	SAME AS TYPE A WITH EMERGENCY BALLAST
X1	Compass	CCR	LED	WALL	277	OR EQUAL
RH	Compass	CUWZ-PC	LED	WALL	277	DR EQUAL
P2	Hubbell	VP-S-48L-110-4K7-2	LED	POLE LIGHT	277	OR EQUAL
P3	Hubbell	VP-S-48L-110-4K7-3	LED	POLE LIGHT	277	OR EQUAL
P4	BEAC□N	VP-L-96L-220-4K7-4W	LED	POLE LIGHTS	277	OR EQUAL
P4-HS	BEAC□N	VP-L-96L-220-4K7-BC	LED	POLE LIGHTS	277	OR EQUAL
P5	HUBBELL	VP-S-48L-110-4K7-5QM	LED	POLE LIGHT	277	OR EQUAL
WP1	BEACON	VP-L-96L-280-4K7-4	LED	WALL PACK	277	OR EQUAL

Provide electrical for new warehouse All Electrical work shall be as per NEC 2017. All work shall be done by qualified electricians. All branch wiring shall be copper.

Devices shall be 20a commercial grade and color shall be by architect.

SPECIFICATIONS

- 1. CONDUIT ABOVE GRADE SHALL BE EMT UNLESS OTHERWISE NOTED
- 2. CONDUIT BELOW GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED 3. CONNECTIONS SHALL BE MADE USING SET SCREW CONNECTORS
- 4. MC CABLE IS ACCETABLE FOR FINAL CONNECTIONS TO LIGHT FIXTURES PROVIDE WITH 10' WHIP ON ALL HIGHBAYS 5. BRANCH WIRING SHALL BE #12 THHN COPPER UNLESS OTHERWISE NOTED
- 6. WIRING SHALL BE AS PER CURRENT NEC 2005
- 7. WIRING DEVICES SHALL BE OF COMMERCIAL GRADE RATED AT 20 AMP
- 8. INSTALLATION SHALL ADHERE TO ADA STANDARDS 9. ALUMINUM XHHW-#2 CABLE MAY BE USED FOR FEEDERS LARGER THEN #2 OTHERWISE COPPER
- 10. REFER TO KCP&L STANDARDS MANUAL FOR 480 SERVICES
- 11. ALL LIGHTING/EQUIPMENT IN WAREHOUSE SHALL BE MOUNTED TO PROVIDE A MIN OF 36' CLEAR HEIGHT

П	Lighting Co		Certific	ate
Project Information				
Energy Code: Project Title: Project Type:	90.1 (2016) Standard Lee's Summit Logistics Build New Construction	ing A Lot 1		
Construction Site: NW Corner of NE Tudor RD & Main ST Lee's Summit, MO 64086	Owner/Agent:	Jeremy Heritage 841 N M Olathe, 913-747	e Electric lartway Drive KS 66061	ric.com
Allowed Interior Lighting Powe	r			
	A Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watt (B X C)
1-Warehouse		436300	0.48	209424
	/er A / Lamp / Wattage Per Lamp / Ba	B allast Lamps/ Fixture	# of Fix	D E cture (C X D)
	A	allast Lamps/	# of Fix Fixtures W	cture (C X D)
Fixture ID : Description 1-Warehouse LED 1: Other:	A / Lamp / Wattage Per Lamp / Ba	allast Lamps/ Fixture	# of Fix Fixtures W	ture (C X D) latt.
Fixture ID : Description 1-Warehouse	A / Lamp / Wattage Per Lamp / Ba ign 85% better than code	allast Lamps/ Fixture	# of Fix Fixtures W	ture (C X D) latt.
Fixture ID : Description 1-Warehouse LED 1: Other: Interior Lighting PASSES: Des	A / Lamp / Wattage Per Lamp / Ba ign 85% better than code tatement ed interior lighting design represes s submitted with this permit appli andard requirements in COMcher	Allast Lamps/Fixture 1 ented in this document is contained. The proposed interest in the proposed in the pro	# of Fix Fixtures W 160 Total Proposed V onsistent with the comply with any and any	Acture (C X D) Vatt. 200 32000 Vatts = 32000 The building plans The building plans The building plans The building plans

ELECTRICAL GENERAL NOTES

- WORK INCLUDED. FURNISH ALL LABOR. MATERIAL, SERVICES AND SKILLED SUPERVISION NECESSARY FOR THE CONSTRUCTION, ERECTION, INSTALLATION CONNECTIONS, TESTING AND ADJUSTMENTS OF ALL CIRCUITS AND ELECTRICAL EQUIPMENT SPECIFIED HEREIN, OR NOTED ON THE DRAWINGS, AND ITS DELIVERY TO THE OWNER COMPLETE IN ALL RESPECTS READY FOR USE.
- 2. CONTRACT DRAWINGS THE CONTRACT DRAWINGS ARE SHOWN IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK. INDICATING THE GENERAL ARRANGEMENT OF EQUIPMENT, CONDUIT AND OUTLETS. VERIFY SPACES FOR THE INSTALLATION OF THE MATERIALS BASED ON ACTUAL DIMENSIONS OF EQUIPMENT FURNISHED. IF A QUESTION EXISTS AS TO THE EXACT INTENDED LOCATION OF OUTLETS OR EQUIPMENT, OBTAIN INSTRUCTIONS FROM THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH WORK.
- 3. MINIMUM SIZE OF CONDUIT SHALL BE 1/2" UNLESS NOTED OTHERWISE.
- 4. ALL WIRING FOR LIGHTING, RECEPTACLE AND POWER CIRCUITS WHERE NOT SHOWN ON DRAWINGS SHALL BE WITH #12 CONDUCTORS, NUMBER AS REQUIRED IN CONDUIT SIZED PER N.E.C. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR ALL BRANCH CIRCUITS AND FEEDERS. HOMERUNS TO PANEL SHALL BE IN INDIVIDUAL CONDUITS, UNLESS NOTED OTHERWISE WITH CIRCUITS AS SHOWN
- THE USE OF TYPE 'MC' AND TYPE 'AC' CABLE IS PERMITTED IN ALL AREAS PER NEC AND LOCAL CODE REQUIREMENTS.
- The use of aluminum conductors with ampacity equivalent to copper is permitted in all areas per nec requirements.
- ALL JUNCTION BOXES, PULL BOXES, AND PANELBOARDS SHALL BE RIGIDLY ATTACHED TO STRUCTURE.
- COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACE AVAILABLE, AND WITHOUT INTERFERENCES.
- 9. ALL CONDUIT, BOXES, ETC. SHALL BE CONCEALED OR MOUNTED FLUSH WITH CEILING OR WALL CONSTRUCTION, CONDUITS SHALL BE MOUNTED AS HIGH AS POSSIBLE. NO SURFACE MOUNTED CONDUIT, BOXES, ETC. WILL BE PERMITTED WITHOUT PERMISSION OF THE ENGINEER PRIOR TO INSTALLATION. ALL CONDUIT PENETRATIONS SHALL BE FIRE-CAULKED AS REQUIRED.



ARCHITECTURE

5719 LAWTON LOOP E. DR. #212

INDIANAPOLIS, IN 46216 O:: 317.288.0681 F :: 317 . 288 . 0753

CONSTRUCTION As Noted on Plans Review

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LEE'S SUMMIT LOGISTICS BUILDING A LOT I

> **NW CORNER OF NE TUDOR RD & MAIN ST** LEE'S SUMMIT, MO 64086

HERITA	AGE ELECTRIC, L.L.C.	
841 N.	MARTWAY	
Olathe,	Kansas	
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fax	(913) 663 2025	



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PERMIT SET	02.18.22

210300

ANE	L: H1	400A	MB	277/	480 V, 3PH,	4W.+GRND.				NEW		
CT	SERVES		VA	OCP	WIRE	PHASE	WIRE		ОСР	VA	SERVES	CCT
1	PANELHA		12125	100/3	4-#1 AL-1-#63	A	4#1 AL-1-#6G	***	100/3	11925	PANEL HC	2
3			9925			В				9725		4
5			9925			С				10125		6
7	PANELHB		12125	100/3	4-#1 AL-1-#6G	A	4-#1 AL-1-#6G		100/3	11925	PANE HD	8
9			9925			В				9725		10
11			9925			С				9725		12
13	PANELH1A		10088	100/3	4-#1 AL-1-#6G	A						14
15			9743			В				1		16
17			8428			С				1		18
19						A				†		20
21						В		1919				22
23						С						24
25						A						26
27						В						28
29						С						30
31						A						32
33						В			-		 	34
35						c						36
37						A				+		
39						В				+	 	38
41						C				-		40
					I							42
IOTES:						LOAD SUN	IMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	1
	NEMA 3R ENCLOSURE					1-LIGHTING		0	1.25	0	PHASEA	58188
	PROVIDE BOLT ON BREAKERS					2-RECEPTA		155359	NEC	82679.5	PHASEB	49043
3	•					3-KITCHEN		0	0.65	0	PHASEC	48128
						4-HVAC		0	1	0	LOWEST PHASE PLUS 10%	
						5-NON-CON	IT	0	1	0	48128 + 10%	52940.8
						LARGEST	MOTOR	0	0.25	0	REBALANCE LOADS	
						TOTALVA		155359		82679.5		
						TOTALAM	DS	186.9		99.5		

ANE	L: H1A 1	100A MLO	277	/ 480 V, 3PH,	4W.+GRND.				NEW		
CT	SERVES	VA	ОСР	WRE	PHASE	WIRE		ОСР	VA	SERVES	ССТ
1	WALL PACKS	2224	20/1	2#12,1#12G	A	2#12-1#12G		20/1	324	POLE LIGHTS	2
3	WALL PACKS	2224	20/1	2#12-1#12G	В	2#12-1#12G		20/1	1519	POLE LIGHTS	4
5	WALL PACKS	1668	20/1	2#12-1#123	С	2#12-1#12G		20/3	760	POLE LIGHTS	6
7	UNITHEATER	5000	30/3	3#10-1#12G	A	2#12-1#12G	**************************************	20/1	1540	POLE LIGHTS	8
9		5000			В						10
11		5000			C				 		12
13					A		***************************************		 		14
15					В			 	1		16
17					С				+		18
19					A				+		20
21			1		В				+		22
23			1		C				+		24
25					A				+		26
27			1	<u> </u>	В			-	+	<u> </u>	28
29			1		C		***************************************		+		30
31			1		A				+		
33			 	 	В	+		-	+		32
35			-		C				-		34
37			+			2.40.4.4422			+		36
39			+	 	A	3-#8,1#10G		50/3	1000	TRANSFORMER	38
41					В			-	1000	TRANSFORMER	40
41					С		***************************************	-	1000	TRANSFORMER	42
ES:				·	LOAD SUN	MARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1	NEMA 1 ENCLOSURE				1-LIGHT IN	G	10259	1.25	12823.75	PHASE A	1008
7	PROVIDE BOLT ON BREAKERS				2-RECEPT	ACLES	3000	NEC		PHASE B	974
3	1				3-KIT CHEN	ī	0	0.65		PHASE C	842
					4-HVAC		15000	1		LOWEST PHASE PLUS 10%	046
					5-NON-COL	NT	0	1	1 000		9270.
					LARGEST		0	0.25		REBALANCE LOADS	3270.
					TOTAL VA		28259		30823.75		
					TOTAL AN		34.0		37.1		
-					1.0.76.76		34.0		31.1	L	

CCT	SERVES	VA	ОСР	/ 208 V, 3PH,	PHASE	WIRE		000	Tree	NEW	
1	EXHAUST FAN	250	20/1	2#12,1#12G	A	WIKE		OCP	VA	SERVES	CCT
3	GFCI RECEP	200	20/1	2#12,1#12G	B	1				SPARE	
5	LIGHT	199	20/1	2#12,1#12G	C				-	SPARE	
7	SPARE	100	1 2011	12712,17120	A				-	SPARE	
9	SPARE		+		B				-		
11	SPACE		+	 	C					SPACE SPACE	
13	SPACE		+		A	-			-		
15	SPACE		+	-	B	-				SPACE	1
17	SPACE		-	ļ	C	-			-		
19	SPACE		+	 	A	-				SPACE	1
21	SPACE		-	-	B	<u> </u>			-	SPACE	2
23	SPACE		+	-	C	ļ-				SPACE	2
25	SPACE		+			<u> </u>			-	SPACE	2
27	SPACE		+		A B					SPACE	1
29	SPACE		+	-	C	-				SPACE	2
31	SPACE		+							SPACE	3
33	SPACE				A	-				SPACE	3
35	SPACE			-	В					SPACE	3
37	SPACE				С				1	SPACE	3
				-	A	-				SPACE	3
39	SPACE				В					SPACE	4
41	SPACE				С	-				SPACE	4
NOTES:		The second second second second	***************************************		LOAD SUN	MARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	1 NEMA 1 ENCLOSURE				1-LIGHTING	G	199	1.25		PHASE A	
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT	ACLES	200	NEC		PHASE B	
	3				3-KITCHEN		0	0.65		PHASE C	
					4-HVAC		250	1		LOWEST PHASE PLUS 10%	
					5-NON-COI	NT	0	1	0	199 + 10%	
					LARGEST		0	0.25	0	REBALANCE LOADS	
					TOTAL VA		649		698.75	11271271702 207120	
					TOTAL AN	ADS.	1.8		1.9		

PANEL	L: HA	100A MLO	277	/ 480 V, 3PH,	4W.+GRND.				NEW P	ANEL	
CT	SERVES	VA	ОСР	WIRE	PHASE	WIRE		ОСР	VA	SERVES	CCT
1	WAREHOUSE LIGHTS	2000	20/1	2#12,1-#12G	A	2#12,1#12G		20/1	2000	WAREHOUSE LIGHTS	2
3	WAREHOUSE LIGHTS	2000	20/1	2#12-1-#12G	В	3#8-1#10G		50/3	6925	MAU1	4
5	WAREHOUSE LIGHTS	2000	20/1	2#12-1-#12G	С				6925		6
7	OVERHEAD DOOR	200	20/3	4#10-1-#123	A				6925		8
9		200			В				1 0020		10
11		200			С				+	 	12
13					A		***************************************		-		14
15					В		***************************************		-		
17			1		C				+		16
19				1	A				+		18
21			1		В	 			+		
23					C	+			-		22
25					A				-		24
27			+		В	+		-	+		26
29			 		C	 			 		28
31					A	-			-		30
33					B	<u> </u>		-	-		32
35			1		C	 			+		34
37				 	A	3-#8,1#10G		50/3	1000	TRANSFORMER	36
39			+	 	B	0110,111100			_		38
41			—	 	C	 		-	800	TRANSFORMER	40
				L	1 0	1		-	800	TRANSFORMER	42
OTES:		***************************************			LOAD SUM	MARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1	NEMA 1 ENCLOSURE				1-LIGHT INC)	8000	1.25	THE RESIDENCE PROPERTY.	PHASE A	1212
2	PROVIDE BOLT ON BREAKERS				2-RECEPT A	CLES	2600	NEC		PHASE B	99:
3					3-KIT CHEN	7	0	0.65		PHASE C	99:
					4-HVAC		20775	1	_	LOWEST PHASE PLUS 10%	35.
					5-NON-CON	IT	600	1	600		10917
					LARGEST I	MOTOR	0	0.25	0	REBALANCE LOADS	10311
					TOTAL VA		31975		33975		
					TOTAL AM	ne	38.5		40.9		

PANE	L: LA 100	MB	120	208 V, 3PH,	4W.+GRND.					NEW PANEL	
CCT	SERVES	VA	ОСР	WIRE	PHASE	WIRE		ОСР	VA	SERVES	CCT
1	DOCK RECEPS	800	20/1	2-#12,1-#12G	A	2#12,1#12G		20/1	200	GFCIRECEP	2
3	DOCK RECEPS	800	20/1	2-#12,1-#12G	В			20/1	-	SPARE	4
5	DOCK RECEPS	800	20/1	2#12,1#12G	С			20/1		SPARE	6
7	SPARE		20/1		A			20/1	+	SPARE	8
9	SPARE		20/1		В		***************************************	20/1	 	SPARE	10
11	SPARE		20/1		C			20/1	+	SPARE	12
13	SPACE		1		A	 		2011	-	SPACE	
15	SPACE		1	 	B	1			-	SPACE	14
17	SPACE		 		C	-			+	SPACE	16
19	SPACE		+		A				-	SPACE	18
21	SPACE	+			B	 		-			20
23	SPACE				C	 			-	SPACE	22
25	SPACE		+	 						SPACE	24
27	SPACE		-	-	A					SPACE	26
29	SPACE	-	-	-	В	-				SPACE	28
31	SPACE		-	-	C					SPACE	30
33	SPACE		-		A	-				SPACE	32
35	SPACE			-	В					SPACE	34
37	SPACE		-		С					SPACE	36
				•	A	-				SPACE	38
39	SPACE				В					SPACE	40
41	SPACE				С	<u> </u>				SPACE	42
NOTES:				II waa baawaa aa a	LOAD SUN	IMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	1 NEMA 1 ENCLOSURE				1-LIGHT INC	3	0	1.25		PHASE A	1000
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT/	ACLES	2600	NEC		PHASE B	800
	3				3-KIT CHEN	l .	0	0.65	-	PHASE C	800
					4-HVAC		0	1	1	LOWEST PHASE PLUS 10%	800
					5-NON-COM	VT	0	1	1	800 + 10%	880
					LARGEST		0	0.25	-	REBALANCE LOADS	880
					TOTAL VA		2600	0.23		NEDALANCE LUADO	
					TOTAL AN				2600		
					I UTAL AW	ro	7.2	1	7.2		

PANE	L: HB	100A ML	.0	277	/ 480 V, 3PH,	4W.+GRND.				NEW P	ANEL	
CCT	SERVES	VA		ОСР	WIRE	PHASE	WIRE		ОСР	VA	SERVES	CCT
1	WAREHOUSE LIGHTS	2	2000	20/1	2#12,1-#12G		2#12,1#12G		20/1	2000	WAREHOUSE LIGHTS	2
3	WAREHOUSE LIGHTS	2	2000	20/1	2#12-1-#12G		3#8-1#103		50/3	6925	MAU1	4
5	WAREHOUSE LIGHTS	2	2000	20/1	2#12-1-#12G					6925		6
7	OVERHEAD DOOR		200	20/3	4#10-1-#12G					6925		8
9			200									10
11			200							1		12
13										1		14
15										1		16
17								***************************************				18
19							1			1		20
21							1					22
23								***************************************		1		24
25										1		26
27												28
29										1		30
31												32
33										1		34
35										 		36
37							3#8,1#10G		50/3	1000	TRANSFORMER	38
39										800	TRANSFORMER	40
41									-	800	TRANSFORMER	42
NOTES:		***************************************	-									
	1 NEMA 1 ENCLOSURE					LOAD SUN		CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	2 PROVIDE BOLT ON BREAKERS					1-LIGHT IN		29375	1.25		PHASE A	1
	3					2-RECEPT		2600	NEC		PHASE B	
	•					3-KIT CHEN	I	0	0.65	- 0	PHASE C	
						4-HVAC		0	1	0	LOWEST PHASE PLUS 10%	
						5-NON-COI		0	1	0	9925 + 10%	109
						LARGEST		0	0.25	0	REBALANCE LOADS	
						TOTAL VA		31975		39318.75		
						TOTAL AN	PS	38.5		47.3		

ANE	L: LB 100	MB	120	/ 208 V, 3PH, 4	W.+GRND.					NEW PANEL	
T	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	ССТ
1	DOCK POWER	800	20/1	2-#12,1-#12G	A	2#12,1#12G		20/1	200	GFCI RECEP	2
3	DOCK POWER	800	20/1	2-#12,1-#12G	В			20/1	+	SPARE	4
5	DOCK POWER	800	20/1		C			20/1	+	SPARE	6
7	SPARE		20/1		A			20/1	+	SPARE	8
9	SPARE		20/1		В			20/1	+	SPARE	10
11	SPARE	-	20/1		С			20/1	+	SPARE	12
13	SPARE		20/1		A			20/1	+	SPARE	14
15	SPACE				В	-			+	SPACE	16
17	SPACE				С	-			+	SPACE	18
19	SPACE				A	1.				SPACE	20
21	SPACE				В	-			-	SPACE	22
23	SPACE		1	-	C	-			+	SPACE	24
25	SPACE		 		A	-		-	+	SPACE	
27	SPACE				В			-	+	SPACE	26
29	SPACE		-		C				-	SPACE	28
31	SPACE		 		A	-			+	SPACE	30
33	SPACE		 		B	-	***************************************			SPACE	32
35	SPACE	+	 		C	-			+	SPACE	34
37	SPACE	-	 		A	-				SPACE	36
39	SPACE		-		B	 			-	SPACE	38
41	SPACE		-		C				-		40
										SPACE	42
TES:					LOAD SUN	AND THE RESIDENCE OF THE PARTY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	NEMA 1 ENCLOSURE				1-LIGHTING		0	1.25		0 PHASE A	
- 2	PROVIDE BOLT ON BREAKERS				2-RECEPT	The same of the sa	2600	NEC	260	0 PHASE B	
3	3				3-KITCHEN		0	0.65		0 PHASE C	
					4-HVAC		0	1		0 LOWEST PHASE PLUS 10%	
					5-NON-COI	NT	0	1		0 800 + 10%	
					LARGEST	MOTOR	0	0.25		0 REBALANCE LOADS	

PANE	L: HC	100A MLO	277	/ 480 V, 3PH,	4W.+GRND.				NEW P	ANEL	
CT	SERVES	VA	OCP	WIRE	PHASE	WIRE		OCP	VA	SERVES	ССТ
1	WAREHOUSE LIGHTS	2000	20/1	2-#12,1-#12G	A	2#12,1#12G		20/1	2000	WAREHOUSE LIGHTS	2
3	WAREHOUSE LIGHTS	2000	20/1	2-#12-1-#12G	В	3#8-1#10G		50/3	6925	MAU1	4
5	WAREHOUSE LIGHTS	2000	20/1	2-#12-1-#12G	С	1			6925		6
7	OVERHEAD DOOR	200	20/3	4-#10-1-#12G	A		***************************************		6925		8
9		200			В				1		10
11		200			C	1			 		12
13					A				 		14
15					В				†		16
17					C				1		18
19					A						20
21			1		В						22
23					С						24
25					A				 		26
27					В						28
29					C						30
31					A				 		32
33					В		***************************************		 		34
35					С	3#8, 1#10G		50/3	1000	TRANSFORMER	36
37					A			-	800	TRANSFORMER	38
39					В			-	600	TRANSFORMER	40
41					С		-	-			42
7.50										-	
TES:	A NEW A SHOLOUS				LOAD SUN		CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	1 NEMA 1 ENCLOSURE				1-LIGHTING		29375	1.25		PHASE A	11925
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT/		2400	NEC	2400	PHASE B	9725
	3				3-KITCHEN		0	0.65	0	PHASE C	10125
					4-HVAC		0	1	0	LOWEST PHASE PLUS 10%	
					5-NON-COI		0	1	0	9725 + 10%	10697.5
					LARGEST		0	0.25	0	REBALANCE LOADS	
					TOTAL VA		31775		39118.75		
					TOTAL AN	PS	38.2		47.1		- 1

PANE	L: LC 100	MB	120	0/ 208 V,3PH,	4W.+GRND.					NEWPANEL	
CCT	SERVES	VA	ОСР	WIRE	PHASE	WIRE	***************************************	ОСР	VA	SERVES	сст
1	DOCK POWER	800	20/1	2#12,1#12G	A	2#12,1-#12G		20/1	200	GFCI RECEP	2
3	DOCK POWER	800	20/1	2#12,1#12G	В	2#12,1#12G		20/1	1	SPARE	4
5	SPARE		20/1		С	2#12,1-#12G	***************************************	20/1		SPARE	6
7	SPARE		20/1		A	2#12,1-#12G		20/1		SPARE	8
9	SPARE		20/1		В	2#12,1#12G		20/1		SPARE	10
11	SPARE		20/1		С	2#12,1-#12G		20/1	1	SPARE	12
13	SPACE				A				1	SPACE	14
15	SPACE				В	-			†	SPACE	16
17	SPACE				С	1-				SPACE	18
19	SPACE				A	-			1	SPACE	20
21	SPACE		1		В	-			1	SPACE	22
23	SPACE			-	С	1.			1	SPACE	24
25	SPACE		1	_	A	_				SPACE	26
27	SPACE			-	В	-			1	SPACE	28
29	SPACE			-	С	_			 	SPACE	30
31	SPACE			-	A	1.			 	SPACE	32
33	SPACE			-	В	-				SPACE	34
35	SPACE			_	С	_			 	SPACE	36
37	SPACE			-	A	-				SPACE	38
39	SPACE			_	В	_			1	SPACE	40
41	SPACE			_	С	_				SPACE	42
IOTES:											
	1 NEMA 1 ENCLOSURE				LOAD SUN		CONN	NEC	DEM	LOAD BALANCE PER PHASE	
					1-LIGHT IN		0	1.25		PHASE A	1
	2 PROVIDE BOLT ON BREAKERS 3				2-RECEPT/		1800	NEC		PHASE B	
	3				3-KITCHEN	l	0	0.65		PHASE C	
					4-HVAC		0	1		LOWEST PHASE PLUS 10%	
					5-NON-COI		0			0 + 10%	
					LARGEST		0	0.25		REBALANCELOADS	
					TOTALVA		1800		1800		
					TOTALAN	IPS	5.0		5.0	il .	

PANE	L: HD	100	MLO	277	/ 480 V, 3PI	l, 4W.+GRND.					NEW PANEL	
ССТ	SERVES		VA	ОСР	WIRE	PHASE	WIRE		OCP	VA	SERVES	ССТ
1	WAREHOUSE LIGHTS		2000	20/1	2-#12,1-#12G	A	2#12,1#12G		20/1	2000	WAREHOUSE LIGHTS	2
3	WAREHOUSE LIGHTS		2000	20/1	2-#12-1-#12G	В	3#8-1-#10G		50/3	6925	MAU1	4
5	WAREHOUSE LIGHTS		2000	20/1	2-#12-1-#12G	С		W-1 APA	 	6925		6
7						A		9	1	6925		8
9						В				-		10
11						C				 		12
13						A					<u> </u>	14
15						В						16
17						C				 	†	18
19						A		**************************************		1		20
21						В				 		22
23						С				 		24
25						A				1		26
27						В						28
29						C						30
31						A				1	 	32
33						В				1		34
35						С				1		36
37						A	3#8,1#10G		50/3	1000	TRANSFORMER	38
39						В			-	800	TRANSFORMER	40
41						С			-	800	TRANSFORMER	42
NOTES:						li a sa a sur						
	1 NEMA 1 ENCLOSURE					LOAD SUN		CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	2 PROVIDE BOLT ON BREAKERS					1-LIGHTING		28775	1.25		5 PHASE A	119
	3					2-RECEPT		0	NEC		PHASE B	9
	•					3-KITCHEN	 	0	0.65		PHASE C	97
						4-HVAC		0	1	(LOWEST PHASE PLUS 10%	
						5-NON-CON		0	1	(9725 + 10%	10697
						LARGEST		0	0.25		REBALANCE LOADS	
						TOTAL VA		28775		35968.75	5	

	L: LD 100	MB	120	/ 208 V, 3PH	, 4VV.+GRND.					NEW PANEL	
ССТ	SERVES	VA	OCP	WIRE	PHASE	WIRE		ОСР	VA	SERVES	CCT
1	DOCK RECEP	800	20/1	2#12,1#12G	A	2#12,1#12G		20/1	200	GFCI	2
3	DOCK RECEP	800	20/1	2#12,1#12G	В			20/1		SPARE	4
5	DOCK RECEP	800	20/1	2#12,1#12G	C			20/1		SPARE	6
7	SPARE		20/1		A	-		20/1		SPARE	8
9	SPARE		20/1		В	-		20/1		SPARE	10
11	SPARE		20/1	-	C	-	- 4	20/1	1	SPARE	12
13	SPACE		20/1	-	A	-		20/1		SPACE	14
15	SPACE		20/1	-	В	-		20/1	1	SPACE	16
17	SPACE		20/1	-	C			20/1	1	SPACE	18
19	SPACE		20/1	-	A	-	***************************************	20/1	1	SPACE	20
21	SPACE		20/1	-	В	-		20/1	1	SPACE	22
23	SPACE		20/1	-	C	-		20/1		SPACE	24
25	SPACE		20/1		A			20/1	1	SPACE	26
27	SPACE		20/1		В			20/1	 	SPACE	28
29	SPACE		20/1		С			20/1	 	SPACE	30
31	SPACE		20/1		A	-		20/1	+	SPACE	32
33	SPACE		20/1	-	В	_		20/1		SPACE	34
35	SPACE		20/1	-	С			20/1	-	SPACE	36
37	SPACE		20/1	-	A	-		20/1	 	SPACE	38
39	SPACE		20/1		В	_		20/1		SPACE	40
41	SPACE		20/1		С			20/1		SPACE	42
NOTES:					LOAD SUN	MARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
	1 NEMA 1 ENCLOSURE				1-LIGHT INC		0	1.25	1	PHASE A	100
	2 PROVIDE BOLT ON BREAKERS				2-RECEPT/		1800		4000	PHASE B	
:	3				3-KIT CHEN		0	0.65	_	PHASE C	80
					4-HVAC		0		-	LOWEST PHASE PLUS 10%	80
					5-NON-COM	VT	0		1		
					LARGEST		0		1	800 + 10% REBALANCE LOADS	88
					TOTAL VA		1800		1800	INCONCARGE LUNDS	
					TOTAL AN		5.0		5.0		

HERITAGE ELECTRIC, L.L.C. 841 N. MARTWAY Olathe, Kansas phone (913) 663 1200 fax (913) 663 2025



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Development Services Departure's Summit, Missouri 12/27/2022

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

CURRAN ARGHITEGTURE

5719 LAWTON LOOP E. DR. #212 INDIANAPOLIS, IN 46216 O :: 317 . 288 . 0681 F :: 317 . 288 . 0753



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PROJECT INFORMATION

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LEE'S SUMMIT LOGISTICS BUILDING A LOT I

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

	10001	DATES
PERMIT SET		02.18

210300

E7.00

FIRE PROTECTION PLANS



F. E. MORAN, INC. FIRE PROTECTION 16815 COLLEGE BLVD. LENEXA, KS 66219

(217) 356-0700 (217) 356-0777 FAX

MISSOURI COA: E-2022012018

SCOPE OF WORK

SCOPE OF WORK:

** FURNISH & INSTALL (11) NEW WET PIPE SPRINKLER SYSTEM FOR THE NEW BUILDING. ** FURNISH & INSTALL A NEW FIRE PUMP AND ACCESSORIES

** FIRE PUMP ROOM POINT OF CONNECTION (START OF CONTRACT): 10" FLANGE, 12" ABOVE THE FINISHED FLOOR IN THE FIRE PUMP ROOM.

FEED RISER POINT OF CONNECTION (START OF CONTRACT): 8" FLANGE, 12" ABOVE THE FINISHED FLOOR IN THE FIRE PUMP ROOM. TWO LOCATED ON EACH END OF THE **BUILDING AND ONE ON EACH SIDE.

** INSTALL (18) 21/2" HOSE VALVES LOCATED AT MAN DOORS AND FED FROM ADJACENT SYSTEMS

NOT INCLUDED:

** WIRING OF ELECTRICAL DEVICES

** FIRE EXTINGUISHERS ** STANDPIPES AND HOSE STATIONS

** FIRE PUMP CONTROLLER AUTO TRANSFER SWITCH

** UNDERGROUND PIPING AND TESTING ** COLUMN SPRINKLERS

** SEISMIC BRACING ** PAINTED PIPING

** CONCRETE PADS ** COMPONENT IDENTIFICATION BEYOND NFPA 13 REQUIREMENTS

** ACCESS PANELS ** CUTTING AND PATCHING

** PIPE SLEEVES ** WALL POST INDICATOR VALVE

** PUMP CONTROLLER AUTOMATIC TRANSFER SWITCH

CODE INFORMATION

CODE INFORMATION:

**NFPA 13, 2016 EDITION: INSTALLATION OF SPRINKLER SYSTEMS **NFPA 20, 2016 EDITION: INSTALLATION OF CENTRIFUGAL FIRE PUMPS

**INTERNATIONAL BUILDING & FIRE CODE, 2018 EDITION **LOCAL AMENDMENTS

BUILDING INFO: IBC OCCUPANCY CLASSIFICATION: S-1

IBC CONSTRUCTION TYPE: II-B **IBC SEISMIC DESIGN CATEGORY:**

HIGHEST FLOOR ELEVATION FROM FIRE DEPARTMENT VEHICLE ACCESS: GRADE **NUMBER OF STORIES: 1**

BUILDING AREA: 433,364 S.F.

GENERAL REQUIREMENTS

** SUPPLY A SPARE SPRINKLER CABINET WITH WRENCH FOR EACH SPRINKLER TYPE AS **REQUIRED BY NFPA 13.** ** IDENTIFY ALL HYDRAULICALLY CALCULATED SYSTEMS WITH A PERMANENTLY MARKED IN-RACK SPRINKLERS: NO

AND WEATHERPROOF SIGN. ** ALL NEW PIPING OR PIPING MODIFICATIONS WHICH AFFECT MORE THAN 20 SPRINKLERS SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 50 PSI OVER THE

SYSTEM WORKING PRESSURE. THE SYSTEM SHALL MAINTAIN THIS PRESSURE WITHOUT LOSS FOR 2 HOURS. ** ** ALL NEW PIPING OR PIPING MODIFICATIONS WHICH AFFECT 20 SPRINKLERS OR LESS SHALL BE TESTED AT THE SYSTEM WORKING PRESSURE.

** ALL PIPING MODIFICATIONS WHICH CANNOT BE ISOLATED FROM THE EXISTING SYSTEM. SHALL BE TESTED AT THE SYSTEM WORKING PRESSURE.

** THE LOCAL FIRE/BUILDING INSPECTOR IS TO BE NOTIFIED 48 HOURS IN ADVANCE OF

ALL TESTING.

UNDERGROUND TESTING AND FLUSHING

** ALL UNDERGROUND PIPE SHALL BE TESTED AND FLUSHED BY THE INSTALLING CONTRACTOR AS REQUIRED BY NFPA 24 BEFORE ANY OVERHEAD SPRINKLER PIPING IS

VALVES

EXCEED 52,000 S.F.

DRAWING

SYMBOLS

★ 0" TS C TO TOP OF STEE OR ROOF DECK ★ 0" TS C TO FLOOR

PIPING CENTERLINES

HANGER LOCATION

ELECTRIC ALARM BEI

x HYDRAULIC NODE

** ALL VALVES CONTROLLING WATER FLOW TO SPRINKLERS SHALL BE INDICATING &

** ALL VALVES SHALL BE ACCESSIBLE AT ALL TIMES AND PERMANENTLY IDENTIFIED.

** THE IDENTIFICATION OF CONTROL VALVES SHALL INCLUDE A DESCRIPTION OR DIAGRAM OF WHAT THEY CONTROL.

** ALL TRAPPED PORTIONS OF SPRINKLER PIPING SHALL BE PROVIDED WITH A LOW POINT DRAIN AS REQUIRED BY NFPA 13.

PIPE HANGERS

** 2½"-6" HANGER RINGS ARE TO BE ADJUSTABLE SWIVEL RINGS, ZINC PLATED, MANUFACTURED TO ANSI/MSS SP-69 STANDARDS. ** 21/2"-6" CLEVIS HANGERS ARE TO BE ADJUSTABLE CLEVIS RINGS, PLAIN,

MANUFACTURED TO ANSI/MSS SP-69 STANDARDS. ** HANGERS AND SEISMIC BRACING ARE TO BE INSTALLED PER NFPA 13 REQUIREMENTS. ** HANGER ROD SIZES AND LOCATIONS ARE TO BE AS REQUIRED BY NFPA 13.

DESIGN CRITERIA - LIGHT HAZARD

SPRINKLER SYSTEM DESIGN CRITERIA - LIGHT HAZARD AREA/DENSITY (WET & SINGLE **INTERLOCKED PREACTION SYSTEMS):** THE NEW SYSTEM HAS BEEN DESIGNED WITH A DESIGN DENSITY OF .10 GPM/S.F. OVER THE MOST REMOTE AND DEMANDING DESIGN AREA OF 1500 S.F. WITH 225 S.F. (15') MAXIMUM SPRINKLER HEAD SPACING AND 100 GPM OUTSIDE HOSE ALLOWANCE. WHERE ROOF OR CEILING SLOPES EXCEED A PITCH OF 2:12, THE DESIGN AREA HAS BEEN INCREASED IN SIZE BY 30% TO 1950 S.F. THE DESIGN AREA MAY BE REDUCED IN SIZE IN ACCORDANCE WITH NFPA 13 DUE TO THE USE OF QUICK RESPONSE SPRINKLERS BUT SHALL NEVER CONTAIN LESS THAN 5 SPRINKLERS. TOTAL SYSTEM SIZE SHALL NOT

WHERE EXTENDED COVERAGE SPRINKLERS ARE UTILIZED, THE MINIMUM DESIGN AREA SHALL BE 5 SPRINKLERS WITH 400 S.F. (20') MAXIMUM SPRINKLER HEAD SPACING. EXTENDED COVERAGE SPRINKLERS SHALL NOT BE USED WHERE ROOF OR CEILING SLOPES EXCEED A PITCH OF 2:12. WHERE SPECIFICALLY LISTED FOR SUCH USE, EXTENDED COVERAGE SPRINKLERS MAY BE USED FOR ROOF OR CEILING SLOPES UP TO

WHEN A REDUCTION IN THE DESIGN AREA IS NOT USED, SPRINKLER DISCHARGE IN SMALL ROOMS SUCH AS CLOSETS AND WASHROOMS CONTAINING A SINGLE SPRINKLER MAY BE OMITTED FROM THE HYDRAULIC CALCULATIONS.

WET-PIPE SPRINKLER SYSTEM BLACK PIPE:

WET SYSTEM PIPE & FITTINGS

** 1" LINE PIPING SHALL BE BLACK STEEL SCH. 40 PIPE, MANUFACTURED TO ASTM A53 ** 21/2" LINE PIPING SHALL BE BLACK STEEL SCH. 7 PIPE, MANUFACTURED TO ASTM A795

** 8" MAIN PIPING SHALL BE BLACK STEEL SCH. 10 PIPE, MANUFACTURED TO ASTM A135 STANDARDS ** 2"-6" MAIN PIPING SHALL BE BLACK STEEL SCH. 7 PIPE, MANUFACTURED TO ASTM A795 STANDARDS.

WET-PIPE SPRINKLER SYSTEM BLACK FITTINGS: ** 1" BRANCH LINE FITTINGS SHALL BE BLACK DUCTILE IRON THREADED, CLASS 150

STANDARD, MANUFACTURED PER ANSI/ASME B16.3, U.L. LISTED FOR FIRE PROTECTION **USE UP TO 175 PSI WORKING PRESSURE.** ** 1/2" - 3" BRANCH LINE PIPE OUTLETS TO BE WELDED MANUFACTURED TO ASTM A53 & ANSI B1.20.1 STANDARDS.

** 1 1/4"-3" BRANCH LINE FITTINGS SHALL BE STANDARD GROOVED DUCTILE IRON, MANUF. TO ASTM A536 STANDARDS.

** 21/2"-8" MAIN PIPE BRANCH OUTLETS TO BE WELDED MANUFACTURED TO ASTM A53 & ANSI B1.20.1 STANDARDS. ** 21/2"-8" MAIN PIPE FITTINGS SHALL BE STANDARD GROOVED DUCTILE IRON, MANUF. TO **ASTM A536 STANDARDS.** ** 21/2"-8" MAIN PIPE FITTINGS SHALL BE STANDARD GROOVED STEEL, MANUF. TO ASTM A958/A53 STANDARDS.

DESIGN CRITERIA - ESFR

SPRINKLER SYSTEM DESIGN CRITERIA (ESFR)-PALLETIZED/SOLID-PILE/RACK STORAGE:

FROM NFPA 13, 2016 EDITION TABLE 16.3.3.1 COMMODITY CLASSIFICATION: CLASS I, II, III OR IV, ENCAPSULATED OR UNENCAPSULATED, NO OPEN TOP CONTAINERS STORAGE ARRANGEMENT: PALLETIZED/SOLID-PILE/SINGLE & DOUBLE ROW RACKS WITH NO SOLID SHELVING

CONSTRUCTION TYPE: ALL TYPES MAXIMUM STORAGE HEIGHT: 35 FEET MAXIMUM CEILING/ROOF HEIGHT: 40 FEET

MINIMUM CLEARANCE FROM SPRINKLER DEFLECTOR TO TOP OF STORAGE: 36 INCHES SPRINKLER TYPE: ESFR (EARLY SUPPRESSION FAST-RESPONSE)

SPRINKLER K-FACTOR: 16.8 SPRINKLER TEMPERATURE RATING: 205°F

SPRINKLER ORIENTATION: PENDENT

MAXIMUM SPRINKLER DEFLECTOR DISTANCE BELOW CEILING: 14 INCHES MINIMUM SPRINKLER DEFLECTOR DISTANCE BELOW CEILING: 6 INCHES MAXIMUM SPRINKLER SPACING/AREA: 10 FEET/100 S.F.

MINIMUM SPRINKLER SPACING: 8 FEET/64 S.F. TYPE OF SYSTEM: WET NUMBER OF DESIGN SPRINKLERS: 12 MINIMUM SPRINKLER OPERATING PRESSURE: 52 PSI INSIDE HOSE STREAM ALLOWANCE: 0 GPM OUTSIDE HOSE STREAM ALLOWANCE: 250 GPM

TOTAL HOSE STREAM ALLOWANCE: 250 GPM

SPRINKLER SYSTEM DESIGN CRITERIA (ESFR)-PALLETIZED/SOLID-PILE/RACK STORAGE:

FROM NFPA 13, 2016 EDITION TABLE 16.3.3.1 COMMODITY CLASSIFICATION: CLASS I, II, III OR IV, ENCAPSULATED OR UNENCAPSULATED, NO OPEN TOP CONTAINERS

STORAGE ARRANGEMENT: PALLETIZED/SOLID-PILE/SINGLE & DOUBLE ROW RACKS WITH NO SOLID SHELVING CONSTRUCTION TYPE: ALL TYPES MAXIMUM STORAGE HEIGHT: 40 FEET

MAXIMUM CEILING/ROOF HEIGHT: 45 FEET MINIMUM CLEARANCE FROM SPRINKLER DEFLECTOR TO TOP OF STORAGE: 36 INCHES SPRINKLER TYPE: ESFR (EARLY SUPPRESSION FAST-RESPONSE) SPRINKLER K-FACTOR: 22.4

SPRINKLER TEMPERATURE RATING: 205°F SPRINKLER ORIENTATION: PENDENT MAXIMUM SPRINKLER DEFLECTOR DISTANCE BELOW CEILING: 18 INCHES

MINIMUM SPRINKLER DEFLECTOR DISTANCE BELOW CEILING: 6 INCHES MAXIMUM SPRINKLER SPACING/AREA: 10 FEET/100 S.F. MINIMUM SPRINKLER SPACING: 8 FEET/64 S.F. TYPE OF SYSTEM: WET

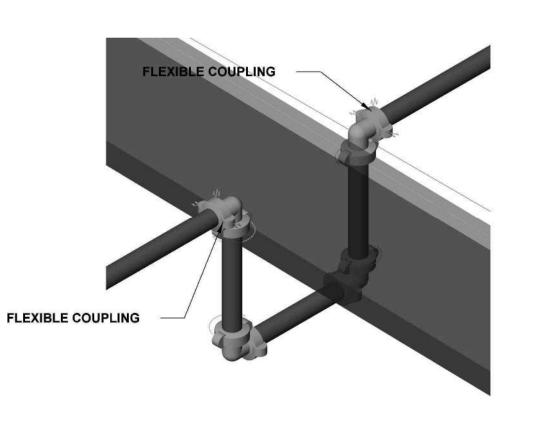
NUMBER OF DESIGN SPRINKLERS: 12 MINIMUM SPRINKLER OPERATING PRESSURE: 40 PSI INSIDE HOSE STREAM ALLOWANCE: 0 GPM **OUTSIDE HOSE STREAM ALLOWANCE: 250 GPM** TOTAL HOSE STREAM ALLOWANCE: 250 GPM

SYSTEMS SHALL BE WET ONLY.

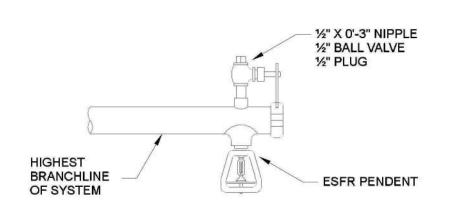
IN-RACK SPRINKLERS: NO

ROOF OR CEILING SLOPES SHALL NOT EXCEED A PITCH OF 2:12.

TOTAL SYSTEM SIZE SHALL NOT EXCEED 40,000 S.F. COMBINED HIGH PILED/RACK STORAGE & LIGHT/ORDINARY HAZARD SYSTEMS MAY COVER UP TO

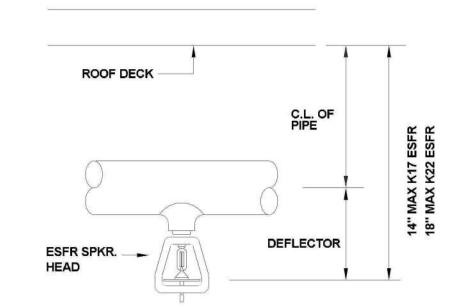


TYPICAL LINE AT EXPANSION JOINT



MANUAL AIR VENT DETAIL

N.T.S.



HANGER INSTALLATION REQUIREMENTS

MAXIMUM DISTANCE BETWEEN HANGERS

BLAZEMASTER CPVC 5'8" 8'0" 8'8" 7'0" 8'0" 9'0" 10'0" N/A

THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER,

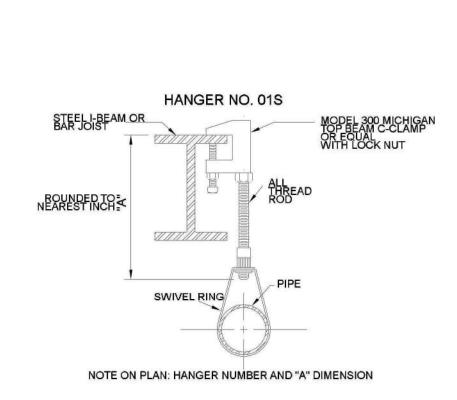
SPRINKLER DROP, OR SPRIG-UP SHALL NOT EXCEED 24"

1-1/4" 1-1/2"

ESFR PENDENT DETAIL

STEEL PIPE (7/10/ 40)

N.T.S.



12' 0" | 12' 0" | 15' 0" | 15' 0" | 15' 0" | 15' 0" | TOP BEAM C-CLAMP DETAIL THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT EXCEED 36" FOR 1" PIPE, 48" FOR 1 1/4" PIPE AND 60" FOR 1 1/2" PIPE OR LARGER

ESFR OBSTRUCTION GUIDELINES

ROOF DECK

ISGLATED (NON-CONTINUOUS) OBSTRUCTIONS UP TO 2 FEET WIDE (ROUND LIGHTS, ETC.): TI SPRINKLER MUST BEAT LEAST 12" HORIZONTALLY FROM THE EDGE OF THE OBSTRUCTION. ISOLATED (NON-CONTINUOUS) OBSTRUCTIONS GREATER THAN 2 FEET WIDE (ROUND LIGHTS, ETC.): PLEASE CALL F.E. MORAN FOR ASSISTANCE

FIGURE 1 OF 6

ESFR OBSTRUCTION GUIDELINES

NOOL DECK

FIGURE 4 OF 6

ESFR OBSTRUCTION GUIDELINES

STEEL JOIST

12" THRU 24" WIDE DUCT, CABLE TRAY,

12" WIDE THRU 24" WIDE PIP DUCT, CABLE TRAY, ETC.

2" WIDE THRU 12" WIDE PIPE, DUCT, CABLE TRAY, ETC.

PLAN VIEW

FIGURE 2 OF 6

ESFR OBSTRUCTION GUIDELINES

COMTINUOUS OBSTRUCTIONS GREATER THAM 12 INCHES, UPTO 2 FEET IN WIDTH IDUCTS, FLUORESCENT LIGHTS IN ROWS, RACKS OF PIPES, ETC.): THE SPRINKLER MUST BE AT LEAST 'AF HORIZONTALLY FROM THE EDDE OF THE OBSTRUCTION.

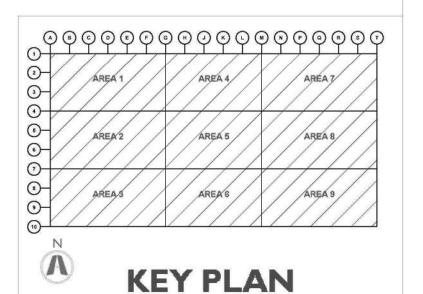
FIGURE 5 OF 6

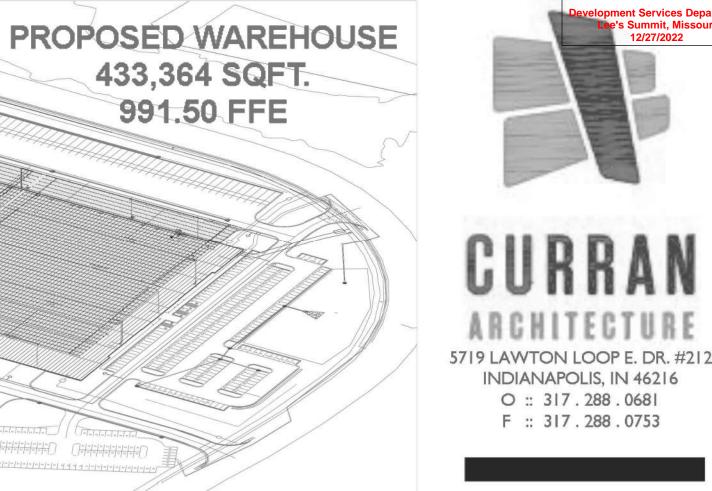
ESFR OBSTRUCTION DETAILS

N.T.S.

NOMINAL	s	CHEDUL	E 40		SCHEDUL	E 10		EDDYFLO	w
PIPE SIZE	O.D.	I.D.	WALL THICKNESS	O.D.	I.D.	WALL THICKNESS	O.D.	I.D.	WALL THICKNESS
1	1.315	1.049	.133	1.315	1.097	.109	1.315	1.191	.062
11/4	1.660	1.380	.140	1.660	1.442	.109	1.660	1.536	.062
11/2	1.900	1.610	.145	1.900	1.682	.109	1.900	1.728	.086
2	2.375	2.067	.154	2.375	2.157	.109	2.375	2.203	.086
21/2	2.875	2.469	.203	2.875	2.635	.120	2.875	2.703	.086
3	3.500	3.068	.216	3.500	3.260	.120	3.500	3.314	.093
4	4.500	4.026	.237	4.500	4.260	.120	4.500	4.310	.095
5	5.563	5.047	.258	5.563	5.295	.134			
6	6.625	6.065	.280	6.625	6.357	.134			
8	8.625	7.981	.322	8.625	8.249	.188			
10	10.750	10.020	.365	10.750	10.370	.188			-







433,364 SQFT.

991.50 FFE

ESFR OBSTRUCTION GUIDELINES

OR OR CONTINUOUS HORIZONTAL STEEL JOIST BRIDGING

NO OBSTRUCTIONS

ROUND OBSTRUCTION

TC; IF THE OBSTRUCTION IS AT LEAST 2 FEET BELOW THE DEFLECTOR, DISREGARD IT.

THE OBSTRUCTION IS CLOSER THAN 2 FEET TO THE DEFLECTOR, THE SPRINKLER MUST IT.

LEAST ALVERTICATION OF THE DEFLECTOR OF THE OBSTRUCTION.

FIGURE 3 OF 6

ESFR OBSTRUCTION GUIDELINES

FIGURE 6 OF 6

GROUP ROUND CESTRUCTION

DRAWING INDEX

FP2.1.2 - AREA 1: SYSTEMS 1-2 (CONT.)

FP2.2.2 - AREA 2: SYSTEMS 2-3 (CONT.)

FP2.3.2 - AREA 3: SYSTEMS 3-4 (CONT.)

FP2.7.2 - AREA 7: SYSTEMS 08-09 (CONT.)

FP2.9.2 - AREA 9: SYSTEMS 10-11 (CONT.)

FP2.8.2 - AREA 8: SYSTEM 09-10 (CONT.)

FP0.0- SYSTEM NOTES

FP1.0 - HYDRAULIC SITE PLAN

FP2.0 - OVERHEAD PIPING PLAN FP2.1.1 - AREA 1: SYSTEMS 1-2

FP2.2.1 - AREA 2: SYSTEMS 2-3

FP2.3.1 - AREA 3: SYSTEMS 3-4

FP2.7.1 - AREA 7: SYSTEMS 08-09

FP2.8.1 - AREA 8: SYSTEMS 09-10

FP2.9.1 - AREA 9: SYSTEMS 10-11

FP3.0- FIRE PUMP & RISER DETAIL

FP2.4 - AREA 4: SYSTEM 05

FP2.5 - AREA 5: SYSTEM 06

FP2.6 - AREA 6: SYSTEM 07

CONSTRUCTION As Noted on Plans Review



MICHELLE A. LOPEZ NUMBER

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LEE'S SUMMIT LOGISTICS

BUILDING A LOT

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

09.07.22 TENANT IMPROVEMENT

FP0.0

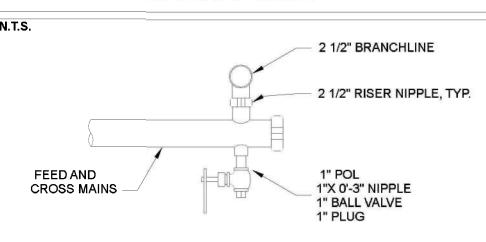
210300

SYSTEM NOTES

BRANCH LINE ESFR K17 OR K22 PENDENT RISER NIPPLE MAIN STORAGE STORAGE

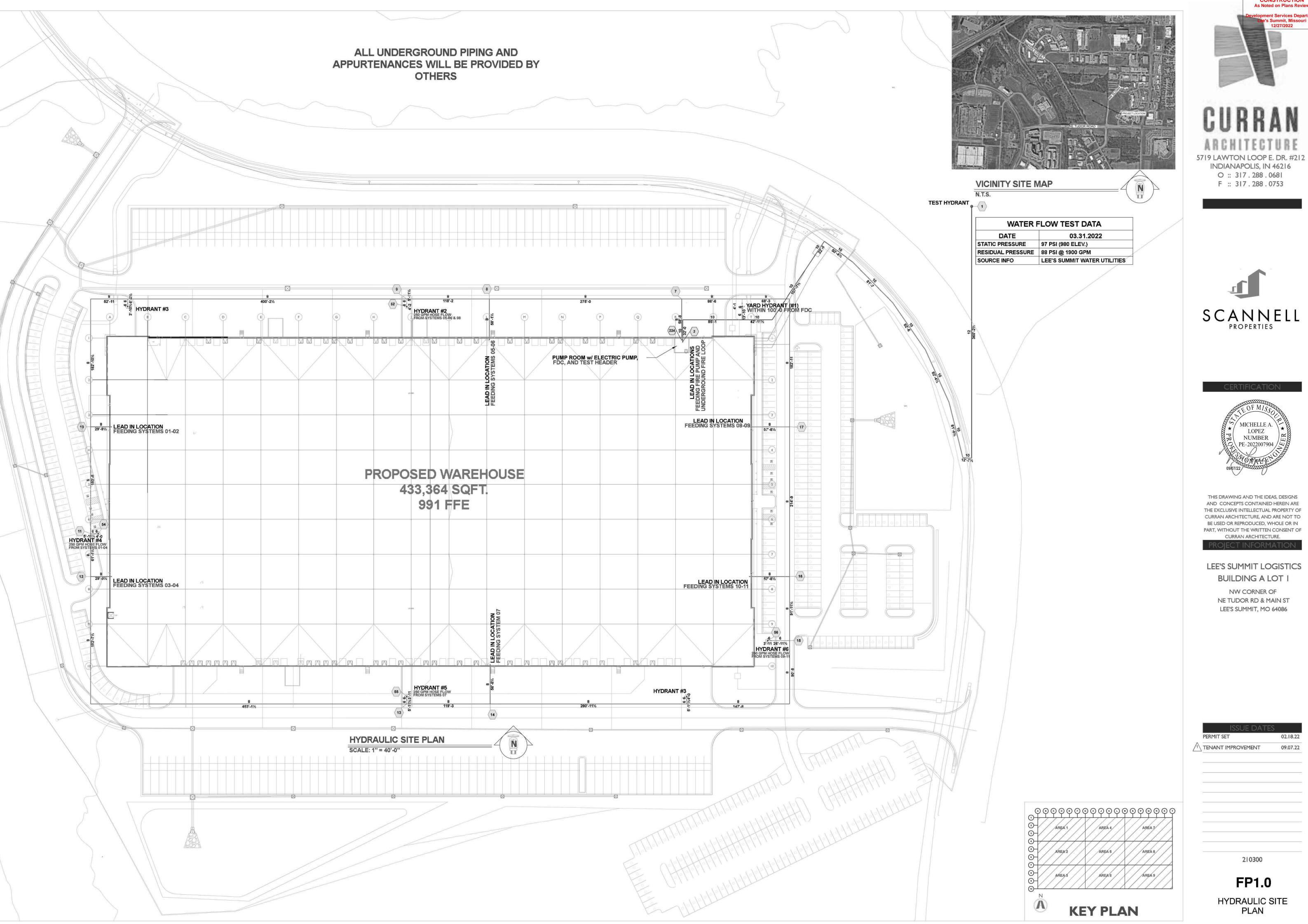
ROOF DECK

STORAGE CLEARANCE



TYPICAL DRAIN DETAIL

N.T.S.



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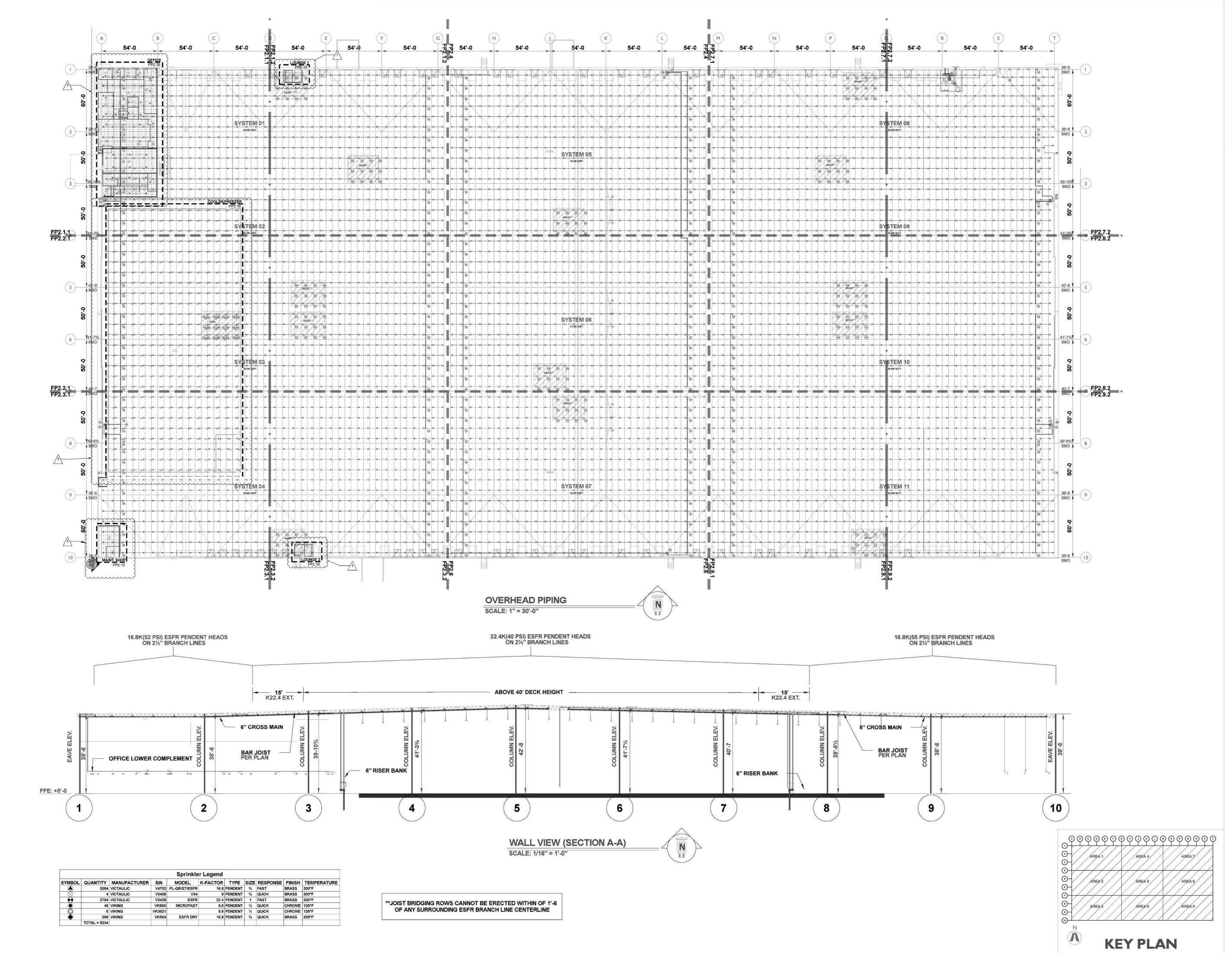
LEE'S SUMMIT LOGISTICS **BUILDING A LOT I**

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FP1.0 HYDRAULIC SITE PLAN





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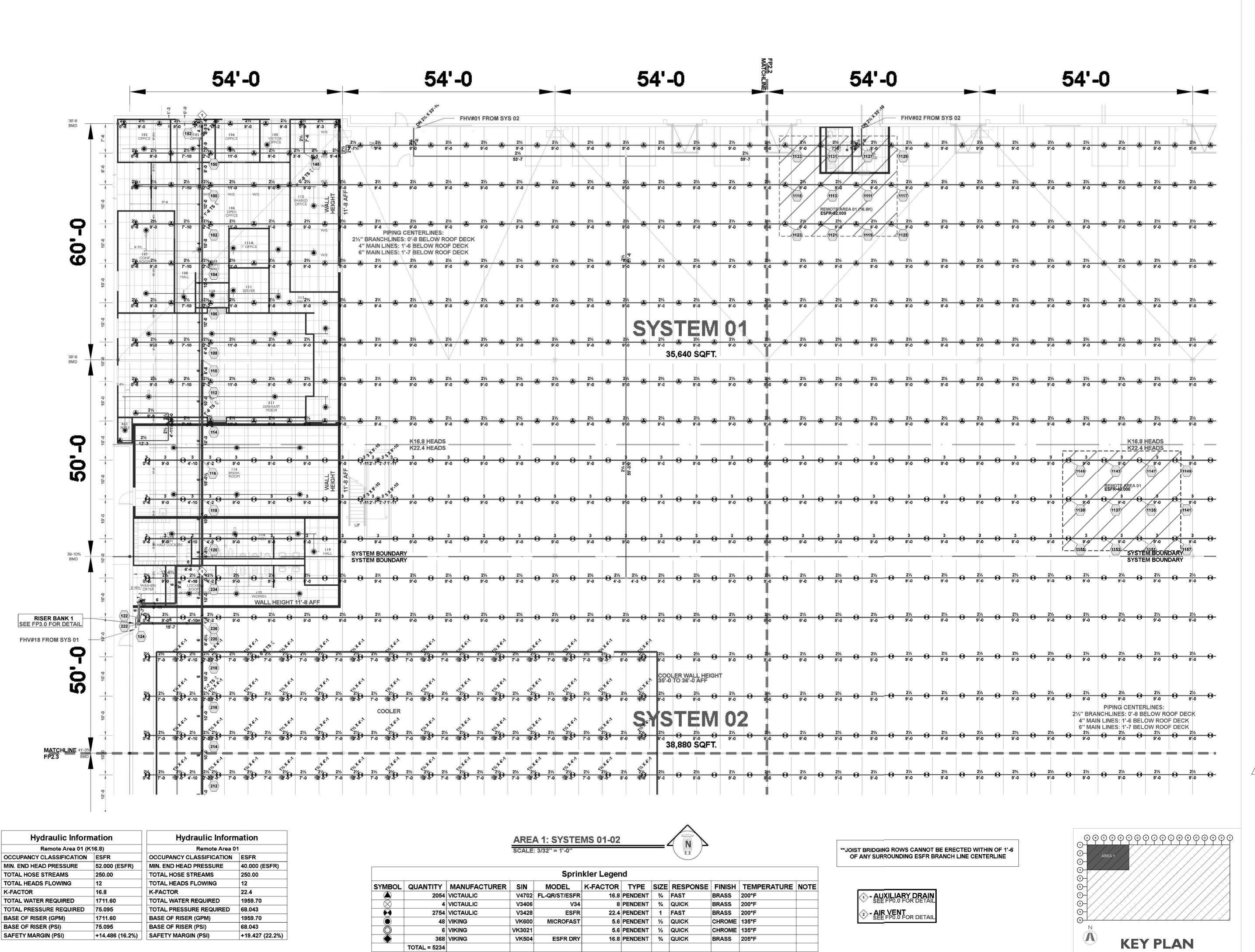
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BUILDING A LOT I

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FP2.0
OVERHEAD PIPING
LAYOUT



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BUILDING A LOT I

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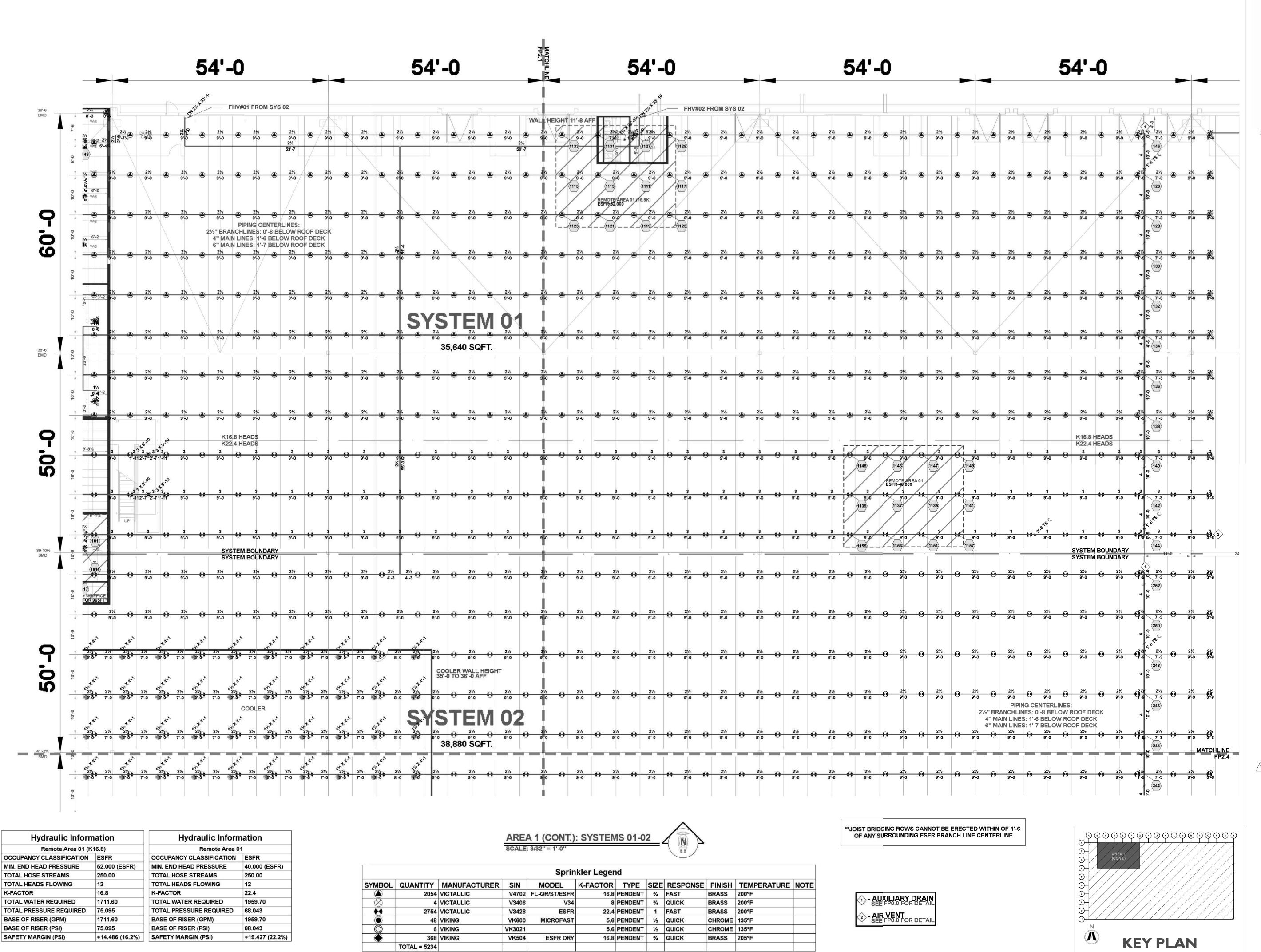
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FP2.1.1

AREA 1: SYSTEMS
01-02



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BUILDING A LOT I

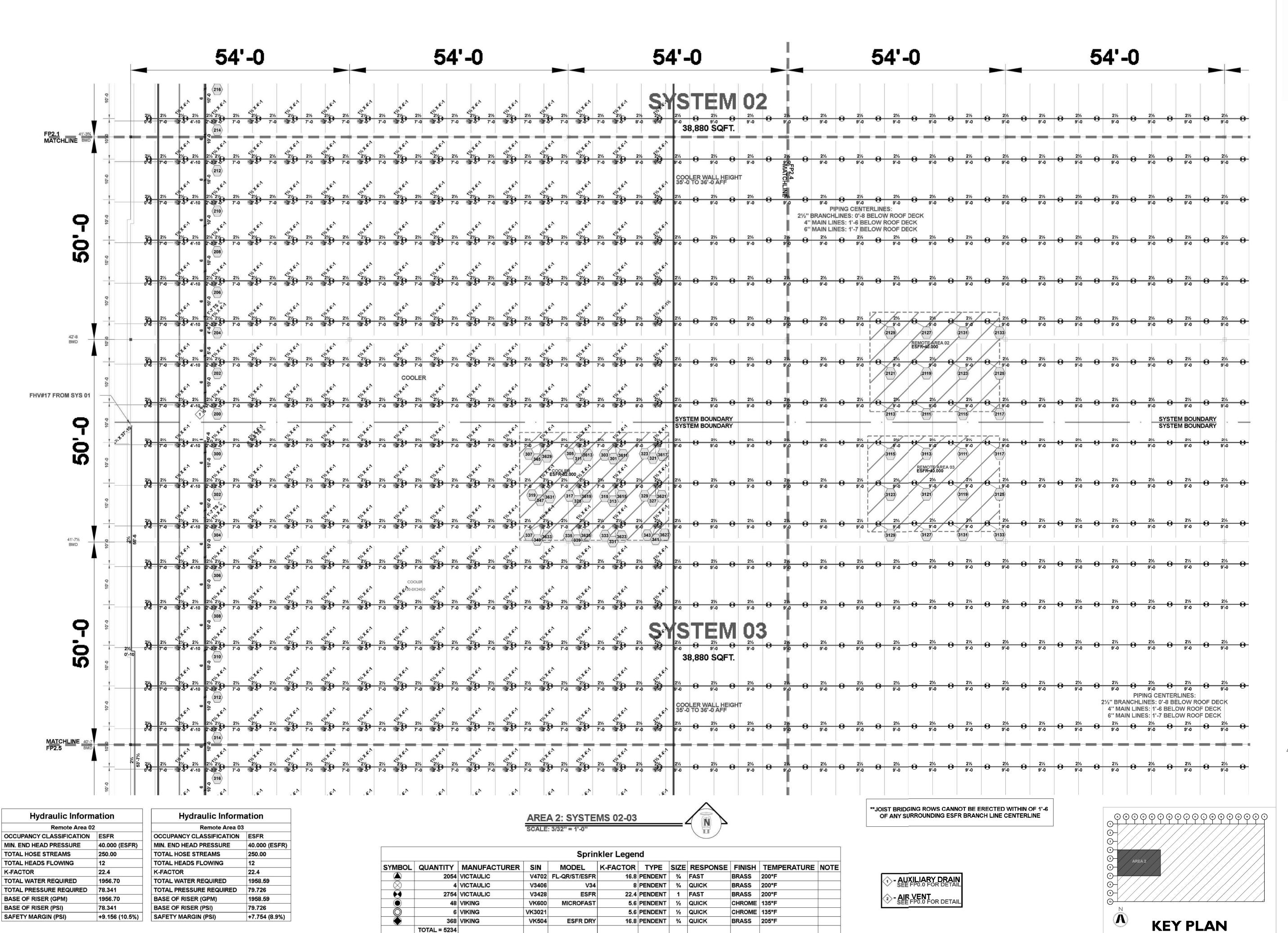
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FP2.1.2

AREA 1 (CONT.):
SYSTEMS 01-02



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LEE'S SUMMIT, MO 64086

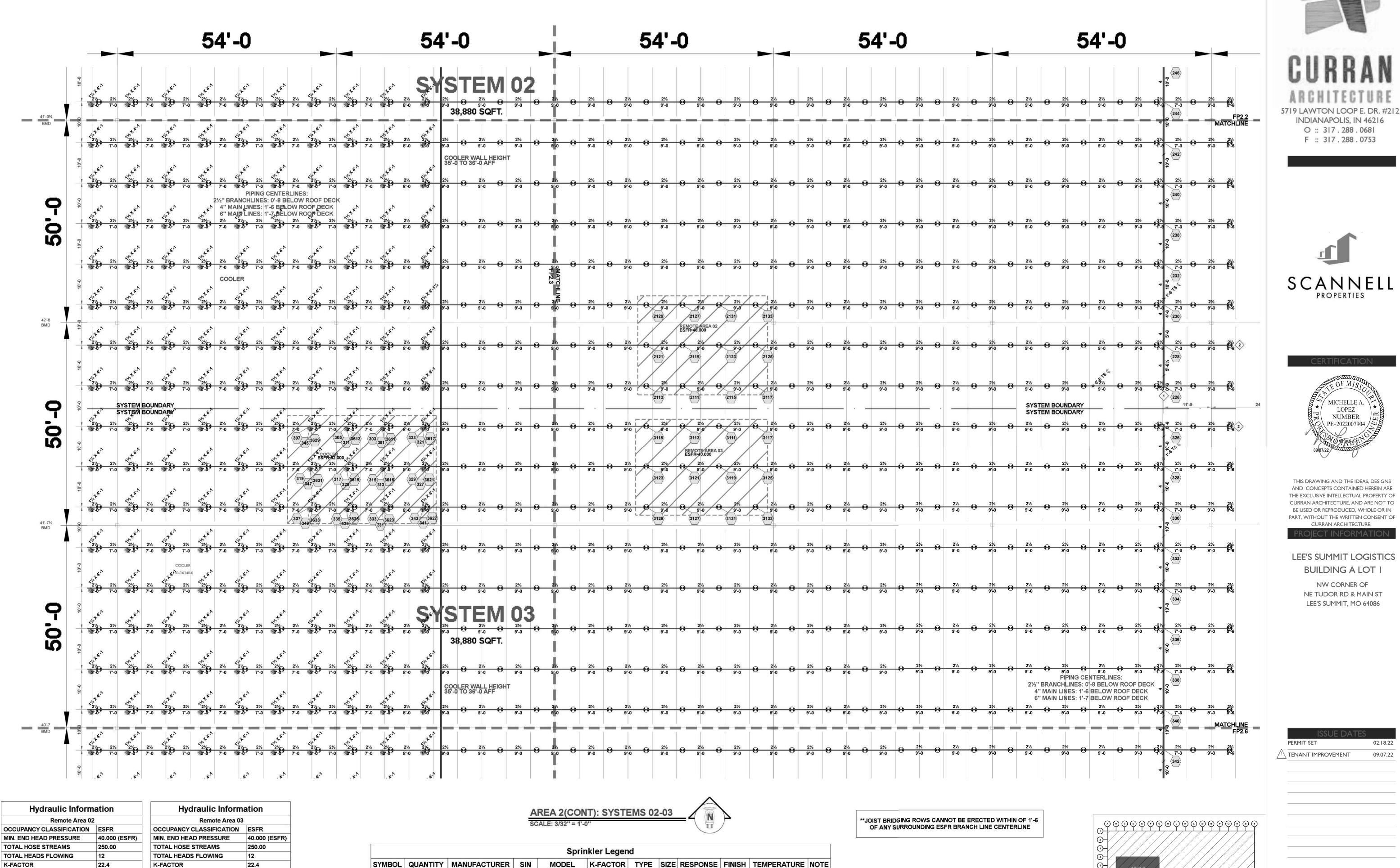
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FP2.2.1

AREA 2: SYSTEM 02-03



16.8 PENDENT 34 FAST

22.4 PENDENT 1 FAST

5.6 PENDENT 1/2 QUICK

5.6 PENDENT 1/2 QUICK

16.8 PENDENT 34 QUICK

8 PENDENT 34 QUICK

BRASS 200°F

BRASS 200°F

BRASS 200°F

CHROME 135°F

CHROME 135°F

BRASS 205°F

- AUXILIARY DRAIN SEE FP0.0 FOR DETAIL

2 - AIR VENT SEE FP0.0 FOR DETAIL

V4702 FL-QR/ST/ESFR

MICROFAST

ESFR DRY

V3406

V3428

VK3021

VK600

VK504

2054 VICTAULIC

2754 VICTAULIC

48 VIKING

6 VIKING

368 VIKING

TOTAL = 5234

4 VICTAULIC

TOTAL WATER REQUIRED

BASE OF RISER (GPM)

BASE OF RISER (PSI)

SAFETY MARGIN (PSI)

TOTAL PRESSURE REQUIRED 78.341

1956.70

1956.70

+9.156 (10.5%)

TOTAL WATER REQUIRED

BASE OF RISER (GPM)

BASE OF RISER (PSI)

SAFETY MARGIN (PSI)

TOTAL PRESSURE REQUIRED 79.726

1958.59

1958.59

+7.754 (8.9%)

79.726

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LEE'S SUMMIT LOGISTICS BUILDING A LOT I

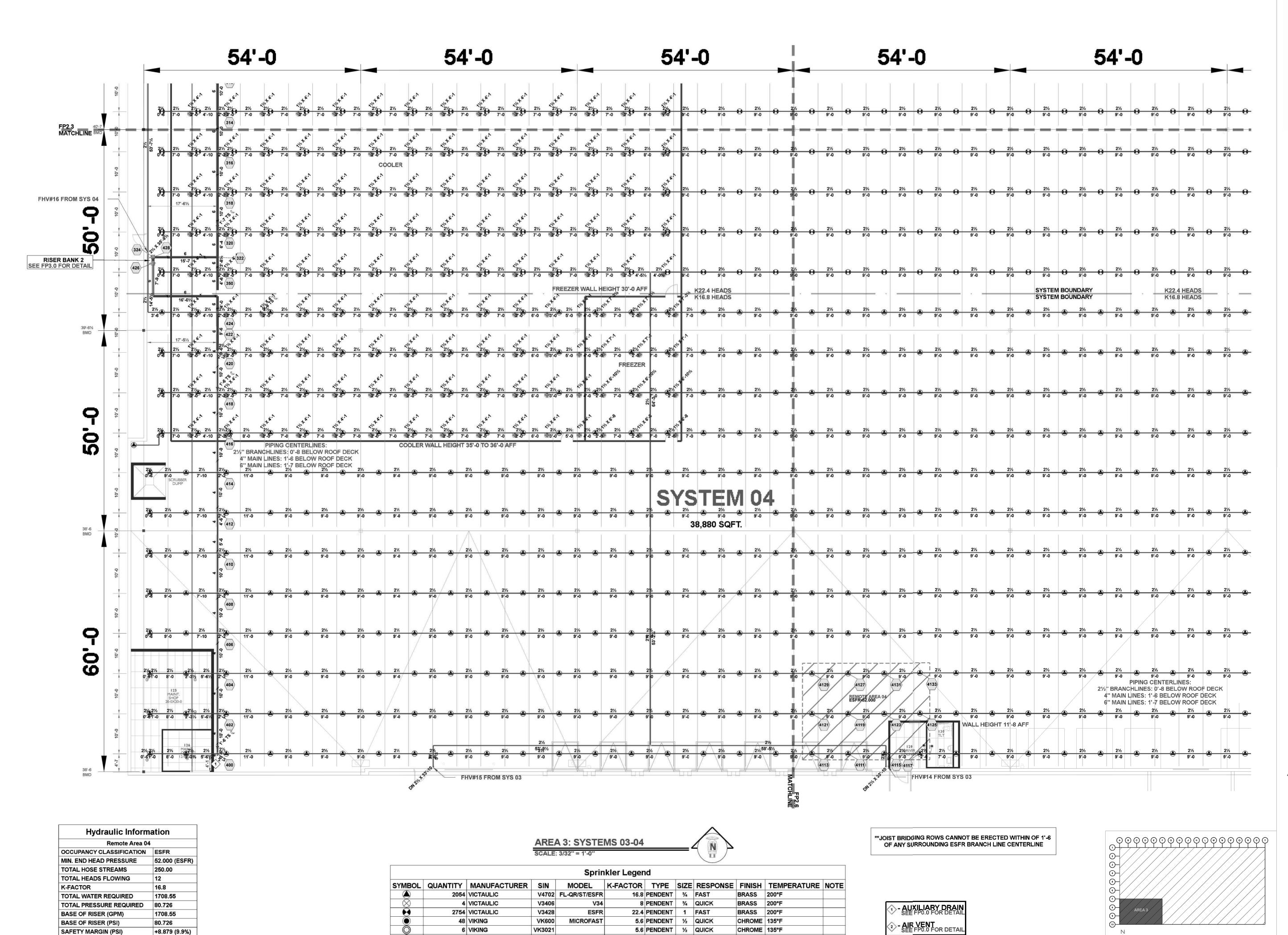
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FP2.2.2 AREA 2(CONT): SYSTEMS 02-03

KEY PLAN



368 VIKING

TOTAL = 5234

VK504

ESFR DRY

16.8 PENDENT 34 QUICK

BRASS 205°F

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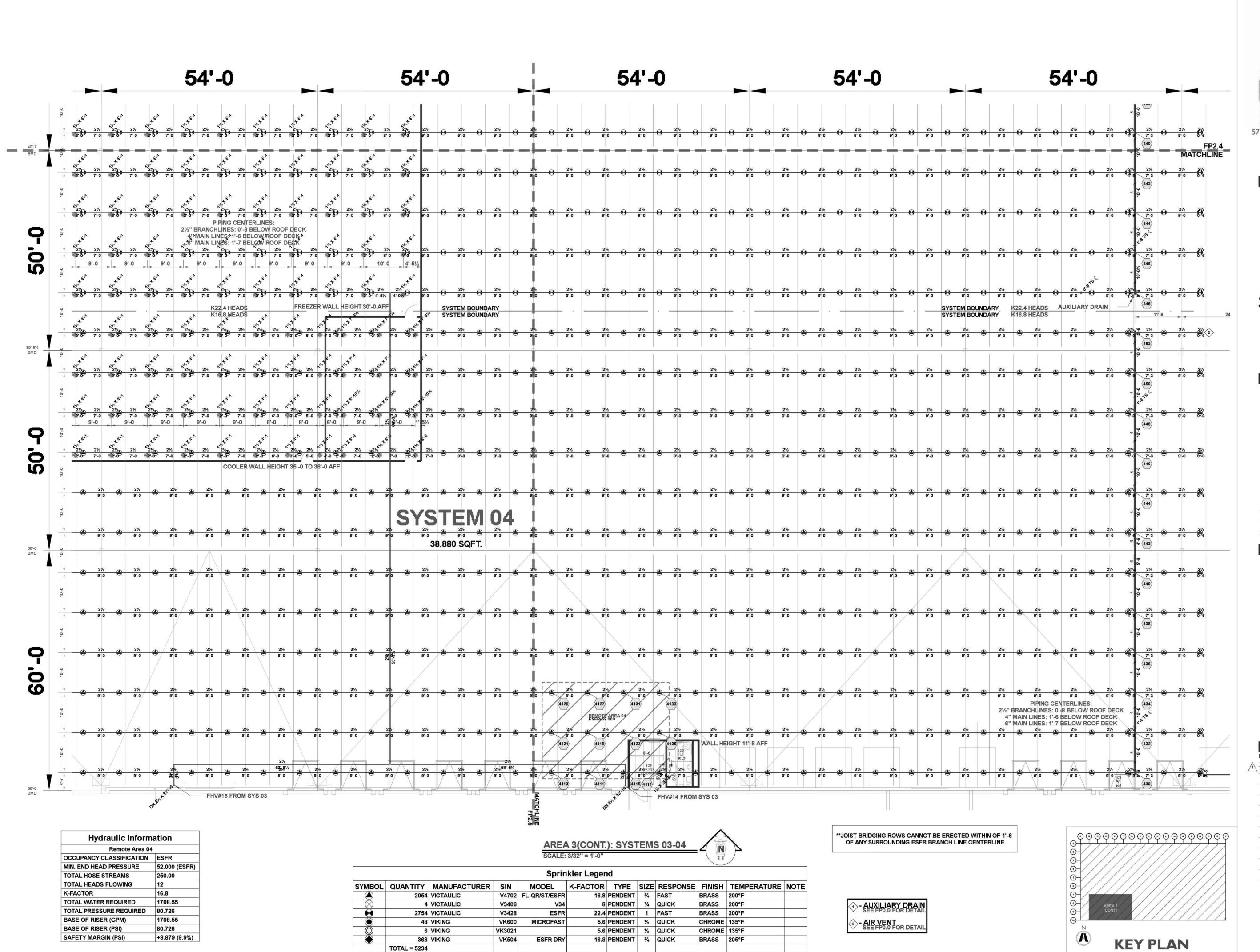
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FP2.3.1
AREA 3: SYSTEMS

03-04

KEY PLAN





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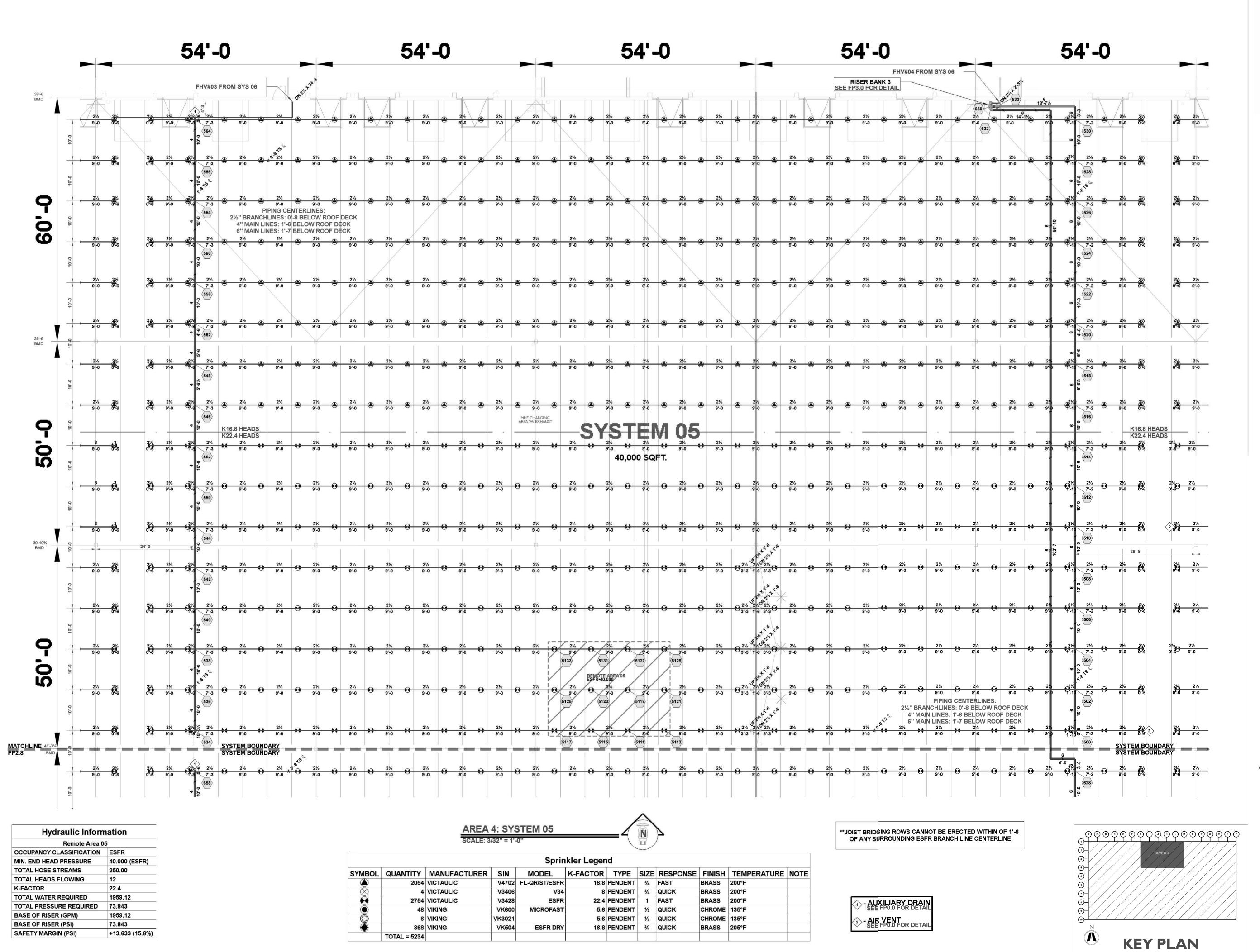
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FP2.3.2

AREA 3(CONT.): SYSTEMS 03-04



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BUILDING A LOT I

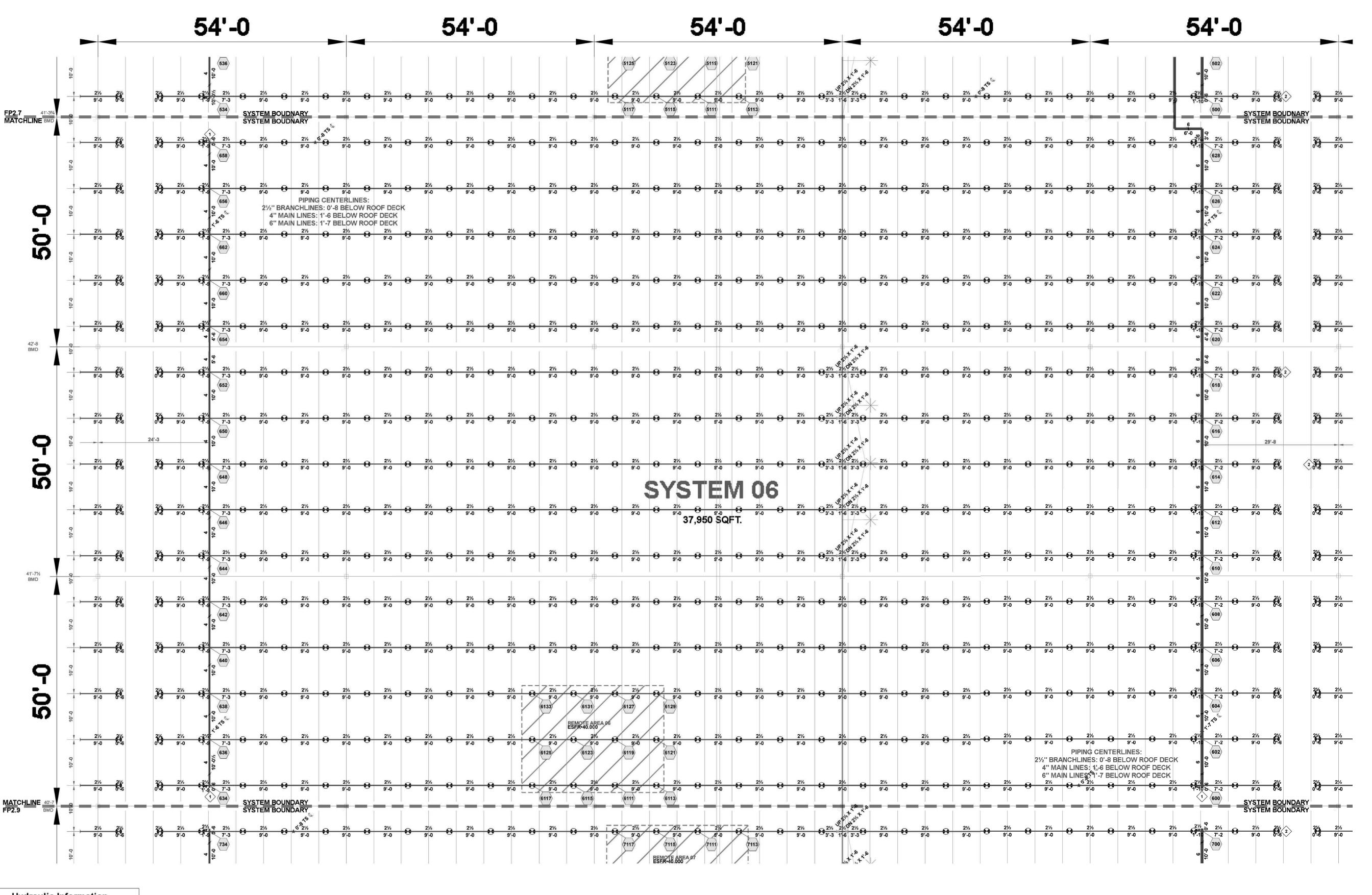
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FP2.4
AREA 4: SYSTEM 05



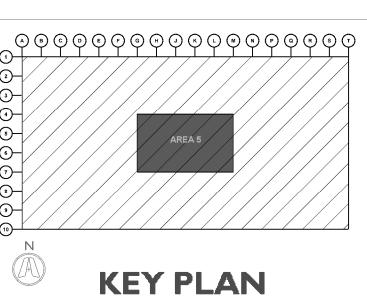
Hydraulic Information Remote Area 06 OCCUPANCY CLASSIFICATION ESFR MIN. END HEAD PRESSURE TOTAL HOSE STREAMS 250.00 TOTAL HEADS FLOWING K-FACTOR 22.4 TOTAL WATER REQUIRED 1956.47 TOTAL PRESSURE REQUIRED 80.319 BASE OF RISER (GPM) 1956.47 BASE OF RISER (PSI) 80.319 +7.179 (8.2%) SAFETY MARGIN (PSI)

AREA 5: SYSTEM 06
SCALE: 3/32" = 1'-0"

				Sprin	ıkler Leger	nd					
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	TYPE	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	3/4	FAST	BRASS	200°F	
\otimes	4	VICTAULIC	V3406	V34	8	PENDENT	3/4	QUICK	BRASS	200°F	
•	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1	FAST	BRASS	200°F	
•	48	VIKING	VK600	MICROFAST	5.6	PENDENT	1/2	QUICK	CHROME	135°F	
0	6	VIKING	VK3021		5.6	PENDENT	1/2	QUICK	CHROME	135°F	
	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	3/4	QUICK	BRASS	205°F	
	TOTAL = 5234										

**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6
OF ANY SURROUNDING ESFR BRANCH LINE CENTERLINE

1 - AUXILIARY DRAIN
2 - AIR VENT
2 - SEE FP0.0 FOR DETAIL



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LEE'S SUMMIT LOGISTICS
BUILDING A LOT I

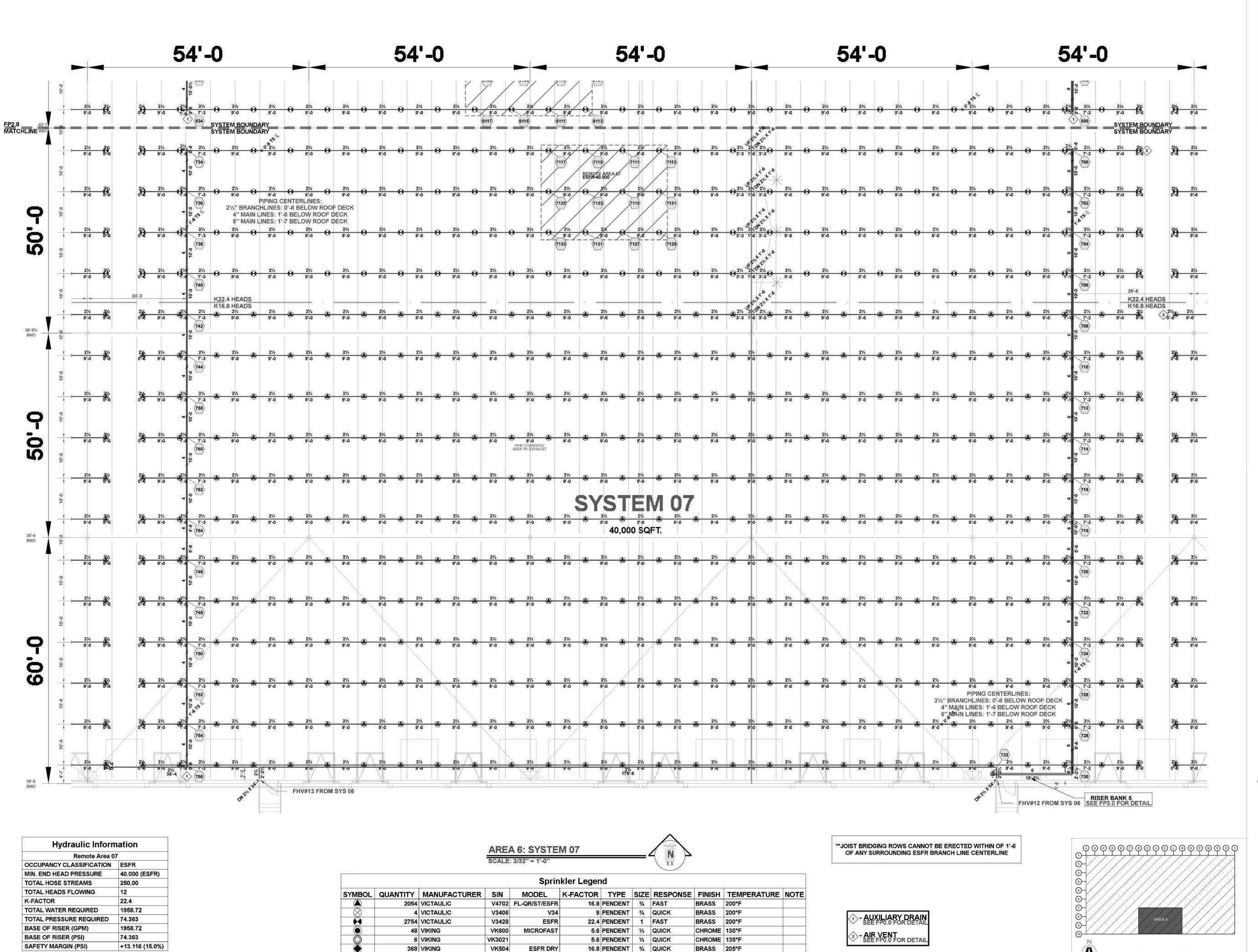
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FP2.5
AREA 5: SYSTEM 06



TOTAL = 5234

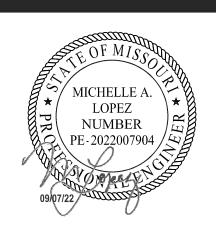
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LEE'S SUMMIT LOGISTICS
BUILDING A LOT I

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

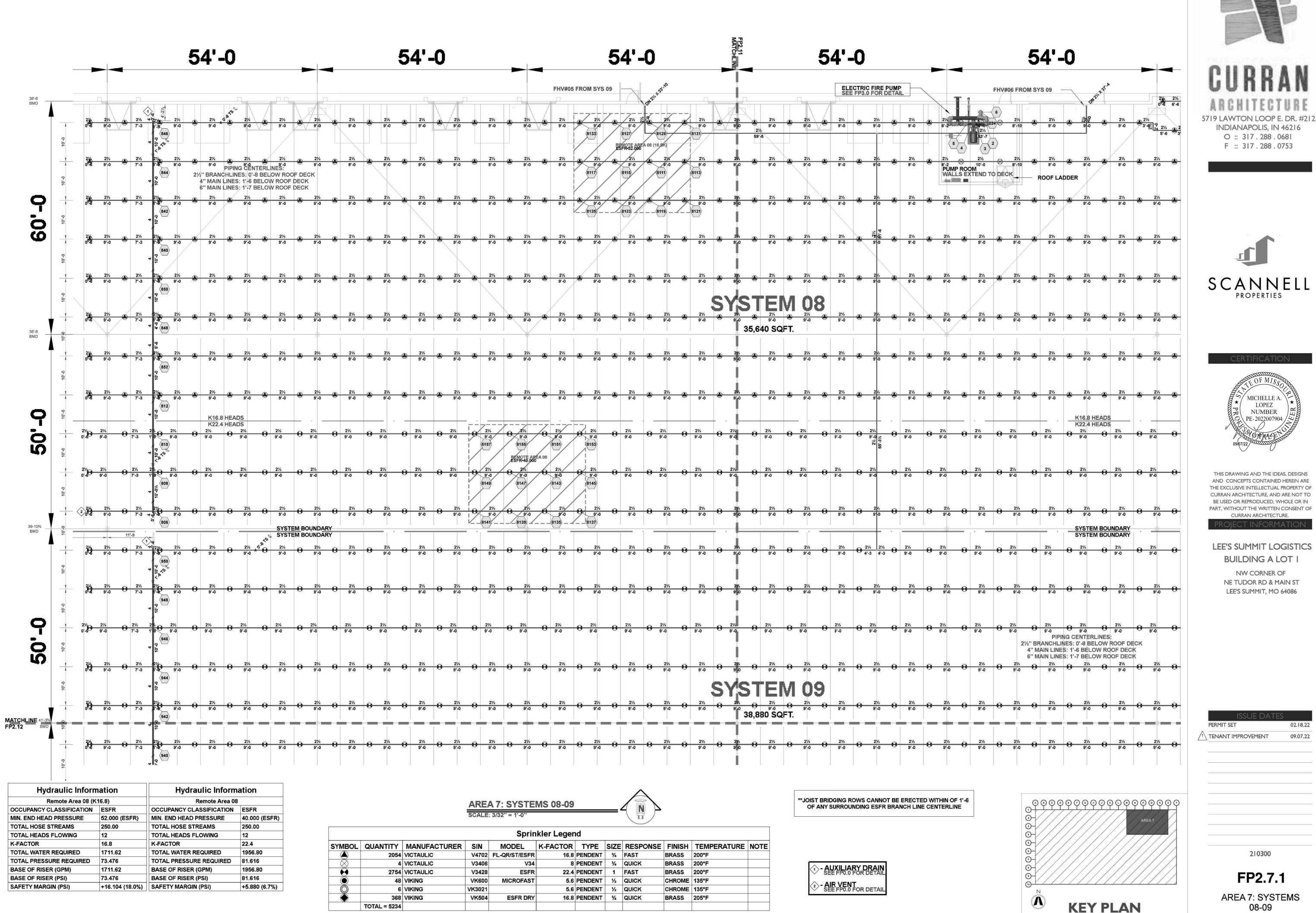
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FP2.6

AREA 6: SYSTEM 07

KEY PLAN



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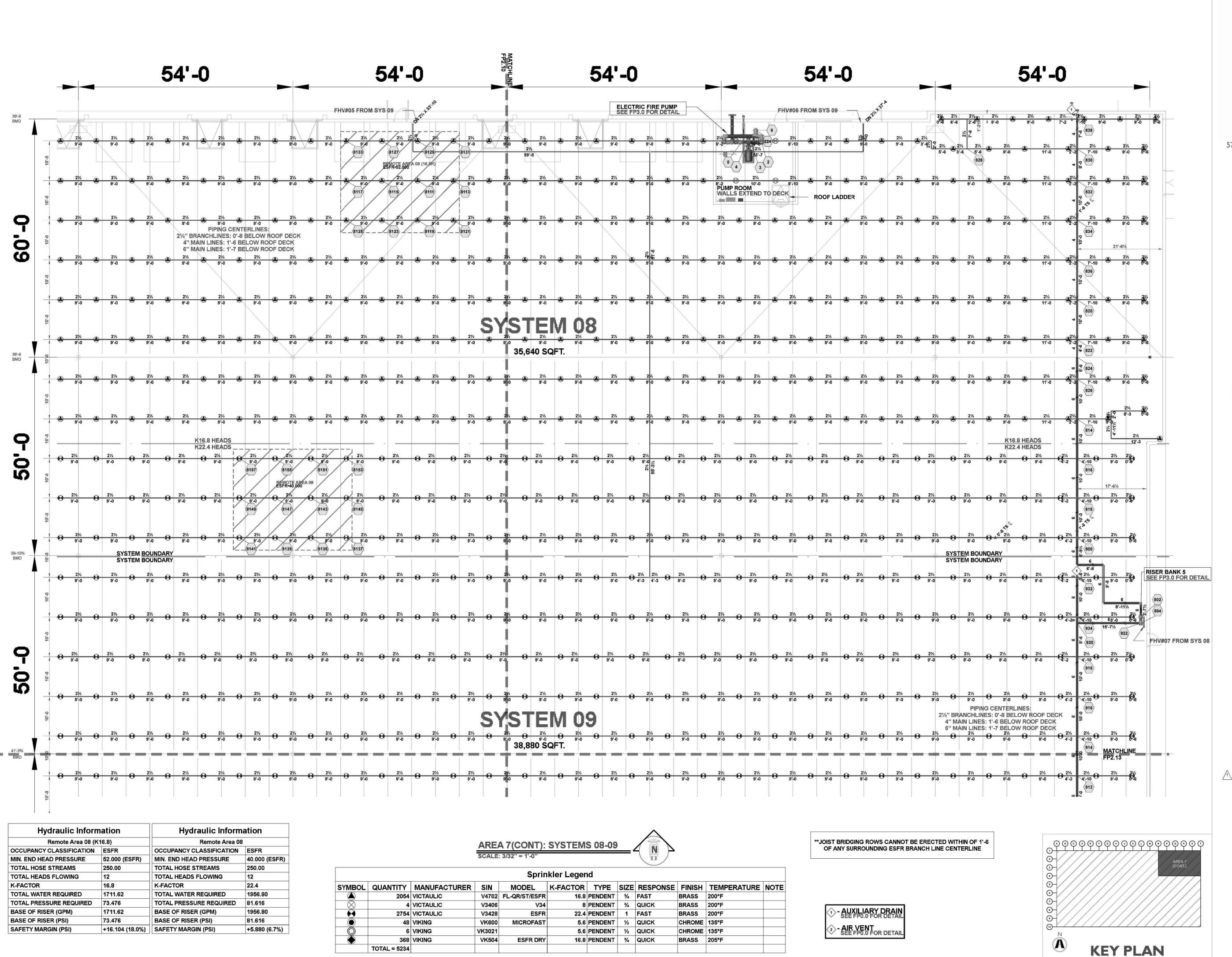
BUILDING A LOT I NW CORNER OF NE TUDOR RD & MAIN ST

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FP2.7.1 AREA 7: SYSTEMS 08-09





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LEE'S SUMMIT LOGISTICS
BUILDING A LOT I

NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

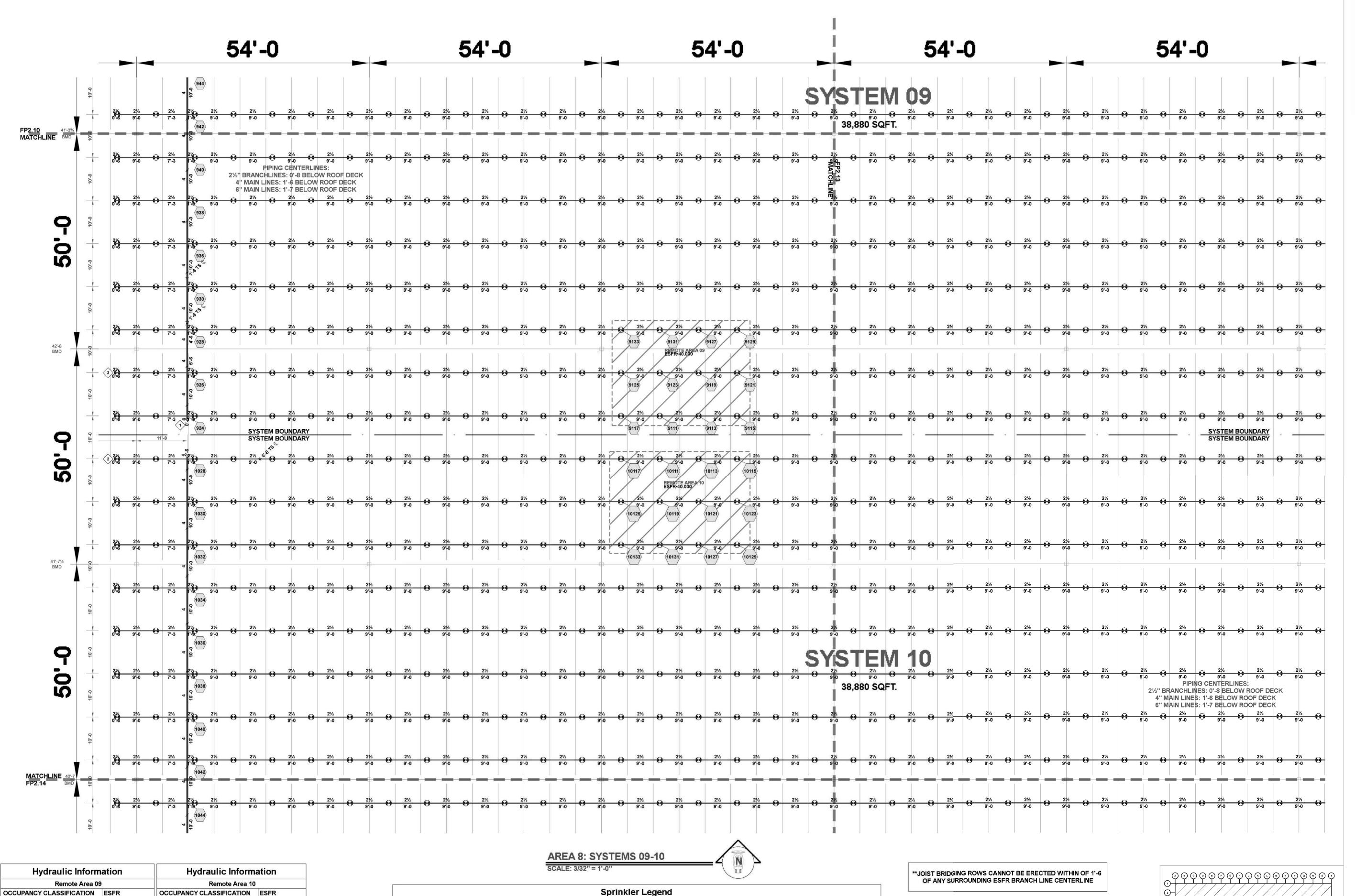
PERMIT SET 02.18.22

TENANT IMPROVEMENT 09.07.22

210300

FP2.7.2AREA 7(CONT):

SYSTEMS 08-09



MODEL K-FACTOR TYPE SIZE RESPONSE FINISH TEMPERATURE NOTE

BRASS 200°F

BRASS 200°F

BRASS 200°F

CHROME 135°F

CHROME 135°F

BRASS 205°F

- AUXILIARY DRAIN SEE FP0.0 FOR DETAIL

2 - AIR VENT SEE FP0.0 FOR DETAIL

16.8 PENDENT 34 FAST

22.4 PENDENT

8 PENDENT | 34 QUICK

5.6 PENDENT 1/2 QUICK

5.6 PENDENT 1/2 QUICK

16.8 PENDENT 3/4 QUICK

MIN. END HEAD PRESSURE

TOTAL HOSE STREAMS

TOTAL HEADS FLOWING

TOTAL WATER REQUIRED

BASE OF RISER (GPM)

BASE OF RISER (PSI)

+12.183 (13.9%) | SAFETY MARGIN (PSI)

TOTAL PRESSURE REQUIRED 77.654

40.000 (ESFR)

250.00

12

22.4

1958.59

1958.59

+9.826 (11.2%)

SYMBOL QUANTITY MANUFACTURER SIN

2054 VICTAULIC

2754 VICTAULIC

6 VIKING

48 VIKING

368 VIKING

TOTAL = 5234

4 VICTAULIC

V4702 FL-QR/ST/ESFR

MICROFAST

ESFR DRY

V3406

V3428

VK600

VK504

VK3021

MIN. END HEAD PRESSURE

TOTAL HOSE STREAMS

TOTAL HEADS FLOWING

TOTAL WATER REQUIRED

BASE OF RISER (GPM)

BASE OF RISER (PSI)

SAFETY MARGIN (PSI)

TOTAL PRESSURE REQUIRED 75.314

K-FACTOR

40.000 (ESFR)

22.4

1956.70

1956.70

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Development Services Departm

Lee's Summit, Missouri

12/27/2022

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5719 LAWTON LOOP E. DR. #212



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LEE'S SUMMIT LOGISTICS

ROIECT INFORMATION

BUILDING A LOT I

NE TUDOR RD & MAIN ST

LEE'S SUMMIT, MO 64086

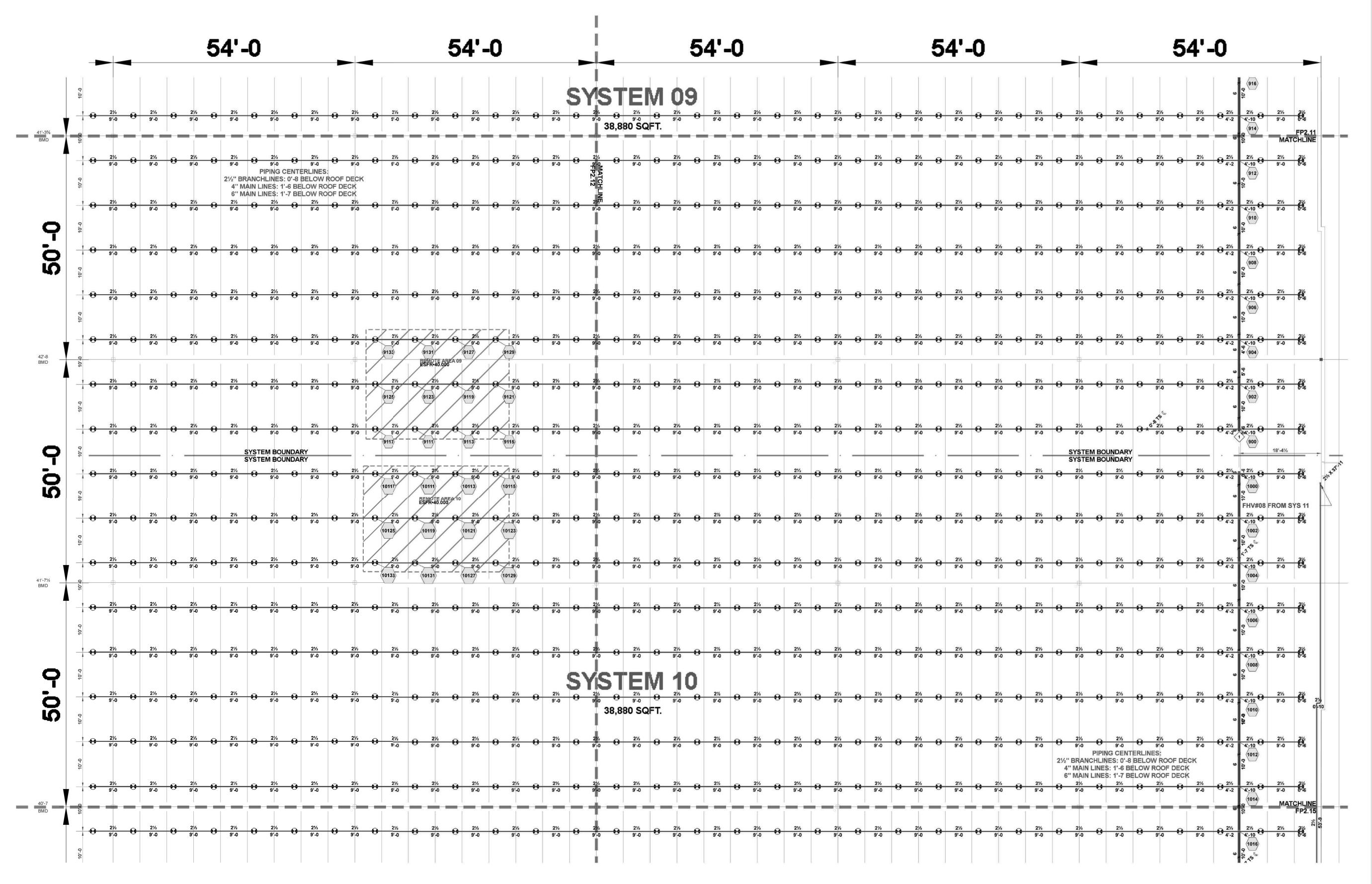
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TENANT IMPROVEMENT 09.07.	
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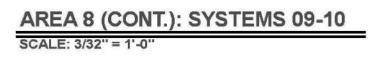
FP2.8.1

AREA 8: SYSTEMS
09-10

KEY PLAN



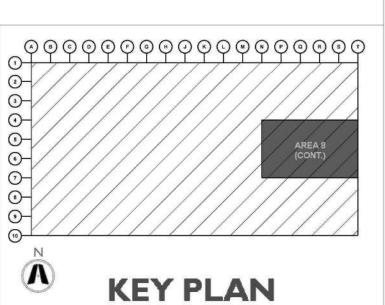
Hydraulic Inforn	nation	Hydraulic Information		
Remote Area 0	9	Remote Area 10)	
OCCUPANCY CLASSIFICATION	ESFR	OCCUPANCY CLASSIFICATION	ESFR	
MIN. END HEAD PRESSURE	40.000 (ESFR)	MIN. END HEAD PRESSURE	40.000 (ESFR)	
TOTAL HOSE STREAMS	250.00	TOTAL HOSE STREAMS	250.00	
TOTAL HEADS FLOWING	12	TOTAL HEADS FLOWING	12	
K-FACTOR	22.4	K-FACTOR	22.4	
TOTAL WATER REQUIRED	1956.70	TOTAL WATER REQUIRED	1958.59	
TOTAL PRESSURE REQUIRED	75.314	TOTAL PRESSURE REQUIRED	77.654	
BASE OF RISER (GPM)	1956.70	BASE OF RISER (GPM)	1958.59	
BASE OF RISER (PSI)	75.314	BASE OF RISER (PSI)	77.654	
SAFETY MARGIN (PSI)	+12.183 (13.9%)	SAFETY MARGIN (PSI)	+9.826 (11.2%)	



Sprinkler Legend											
SYMBOL	QUANTITY	MANUFACTURER	SIN	MODEL	K-FACTOR	101_12453mVC-42563	SIZE	RESPONSE	FINISH	TEMPERATURE	NOTE
	2054	VICTAULIC	V4702	FL-QR/ST/ESFR	16.8	PENDENT	3/4	FAST	BRASS	200°F	
\otimes	4	VICTAULIC	V3406	V34	8	PENDENT	3/4	QUICK	BRASS	200°F	
H	2754	VICTAULIC	V3428	ESFR	22.4	PENDENT	1	FAST	BRASS	200°F	
<u> </u>	48	VIKING	VK600	MICROFAST	5.6	PENDENT	1/2	QUICK	CHROME	135°F	
0	6	VIKING	VK3021		5.6	PENDENT	1/2	QUICK	CHROME	135°F	
	368	VIKING	VK504	ESFR DRY	16.8	PENDENT	3/4	QUICK	BRASS	205°F	
	TOTAL = 5234				2000 This - 40, 40						

**JOIST BRIDGING ROWS CANNOT BE ERECTED WITHIN OF 1'-6
OF ANY SURROUNDING ESFR BRANCH LINE CENTERLINE

1 - AUXILIARY DRAIN SEE FP0.0 FOR DETAIL 2 - AIR VENT SEE FP0.0 FOR DETAIL





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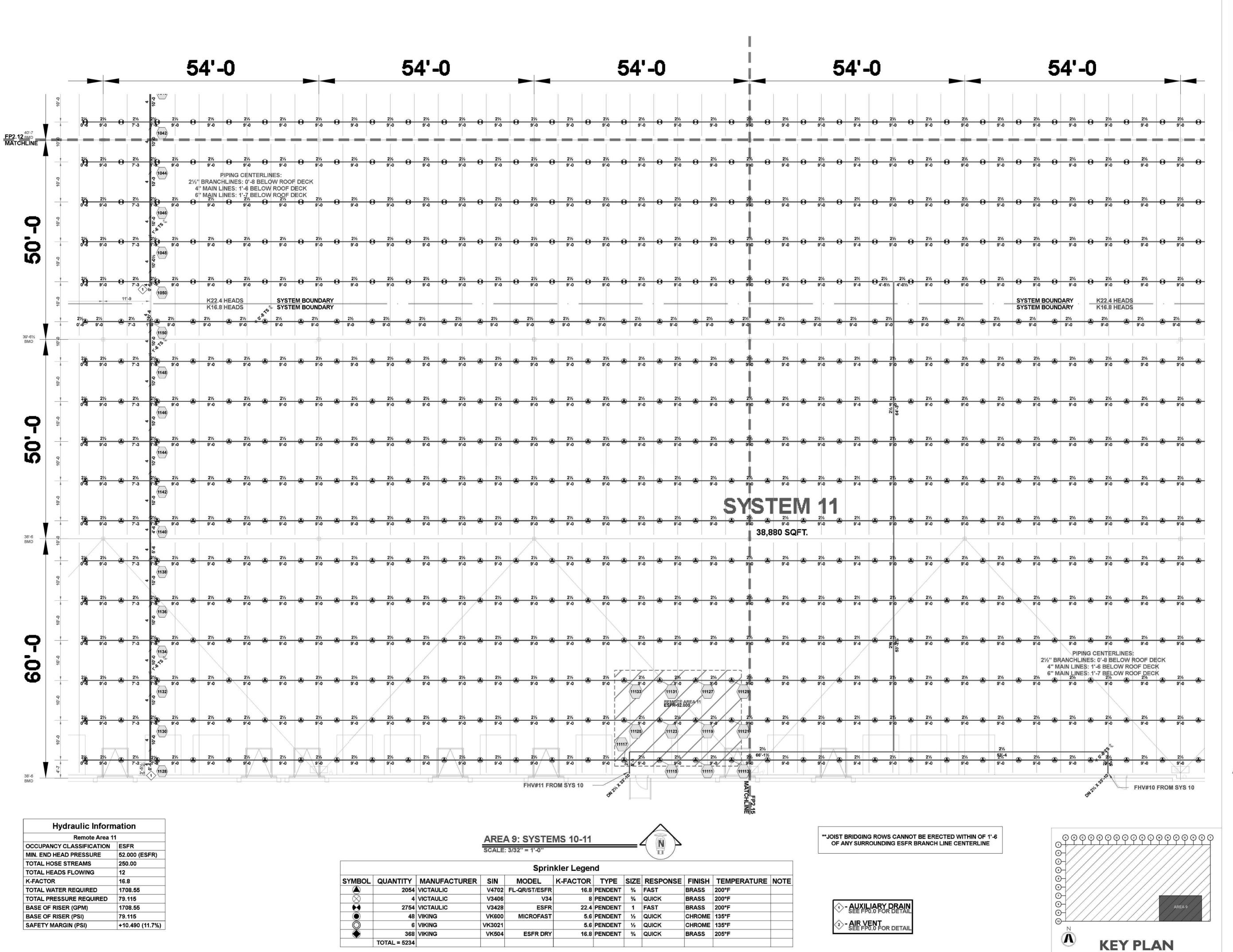
NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

ANT IMPROVEMENT	09.07.22
	ANT IMPROVEMENT

210300

FP2.8.2

AREA 8 (CONT.): SYSTEMS 09-10



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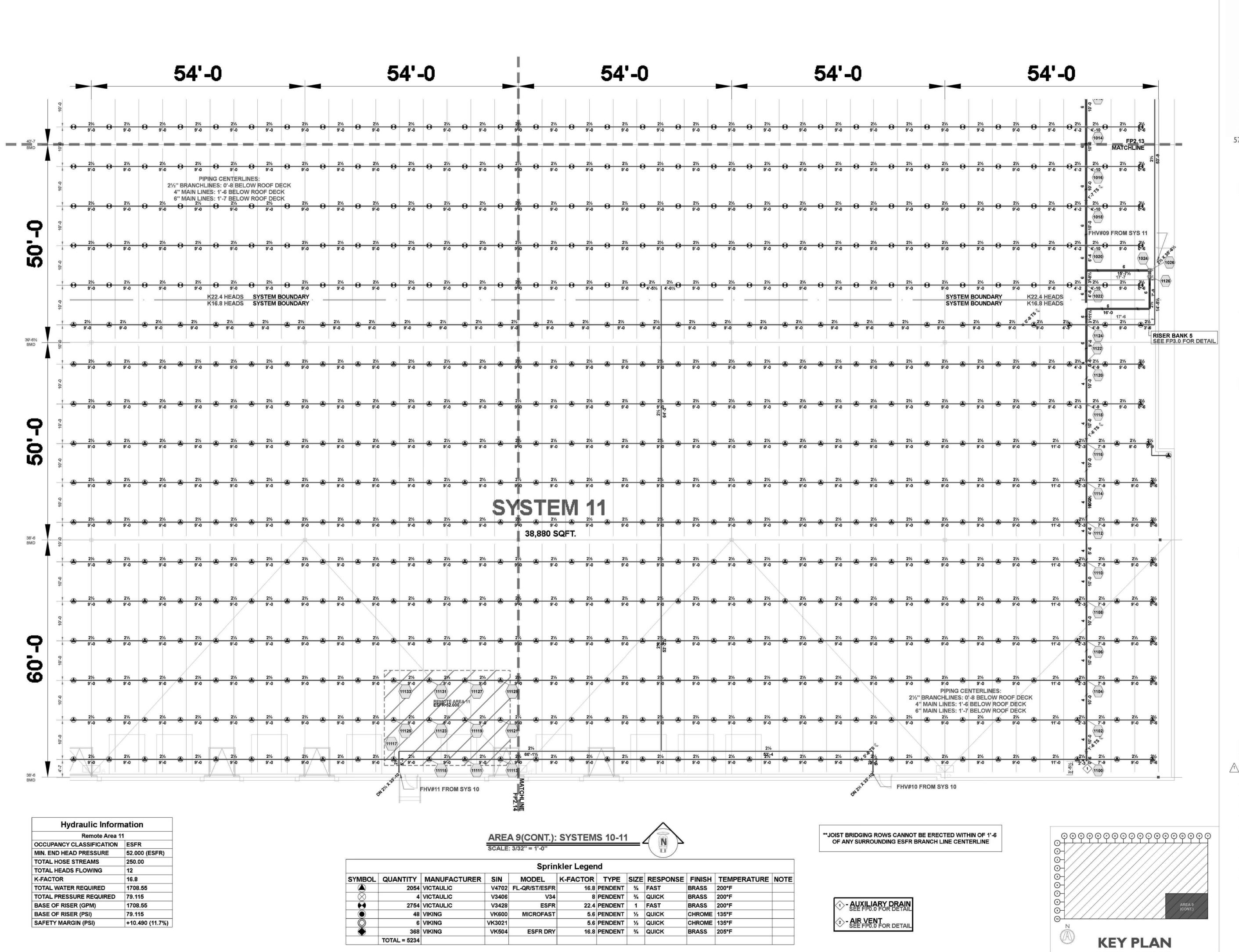
NW CORNER OF NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

	PERMIT SET	02.18.22
1	TENANT IMPROVEMENT	09.07.22
	-	

210300

FP2.9.1
AREA 9: SYSTEMS

10-11



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BUILDING A LOT I

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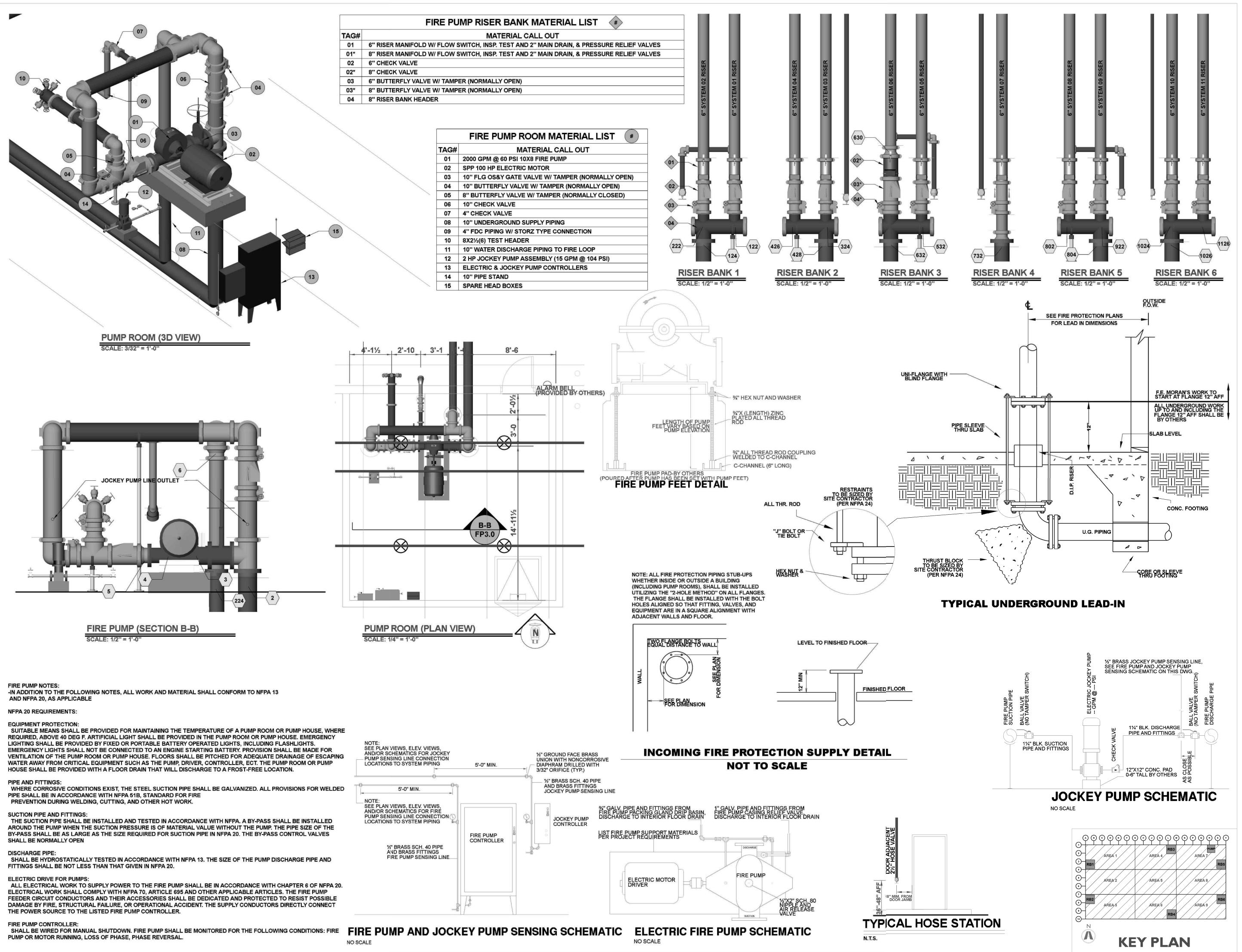
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FP2.9.2

AREA 9(CONT.): SYSTEMS 10-11



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SCANNELL

MICHELLE A.

LOPEZ
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BUILDING A LOT I

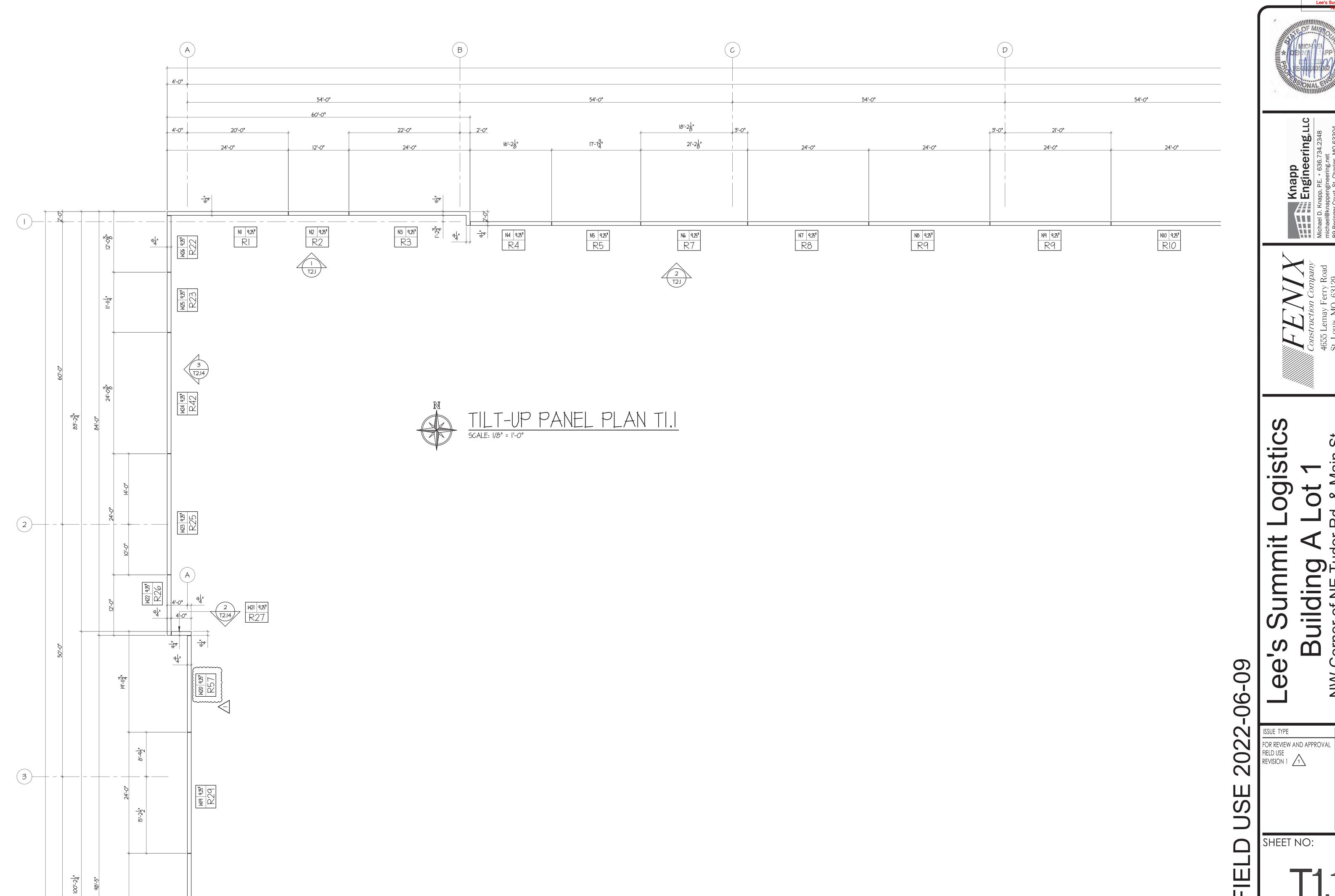
NE TUDOR RD & MAIN ST LEE'S SUMMIT, MO 64086

PERMIT SET 02.18.22

TENANT IMPROVEMENT 09.07.22

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FP3.0
FIRE PUMP & RISER
DETAIL



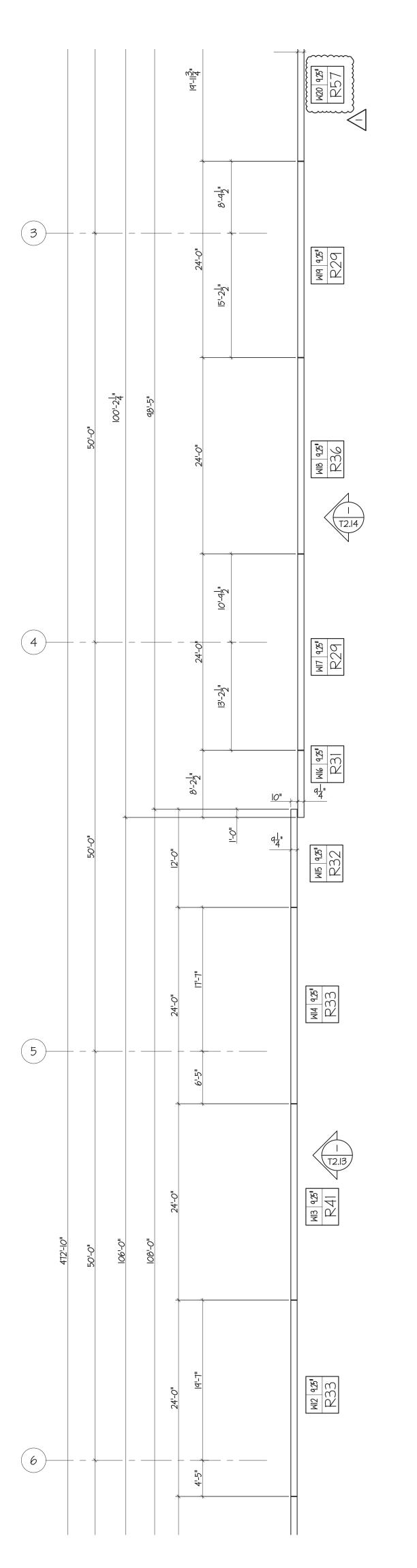
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Logistics Building A Lot 1
NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086 Summit Lee's

| ISSUE DATE | 2022-05-16 | 2022-06-09 | 2022-06-27

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FIELD USE 2022-06-09

ISSUE TYPE

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ISSUE DATE
2022-05-16
2022-06-09
2022-06-27

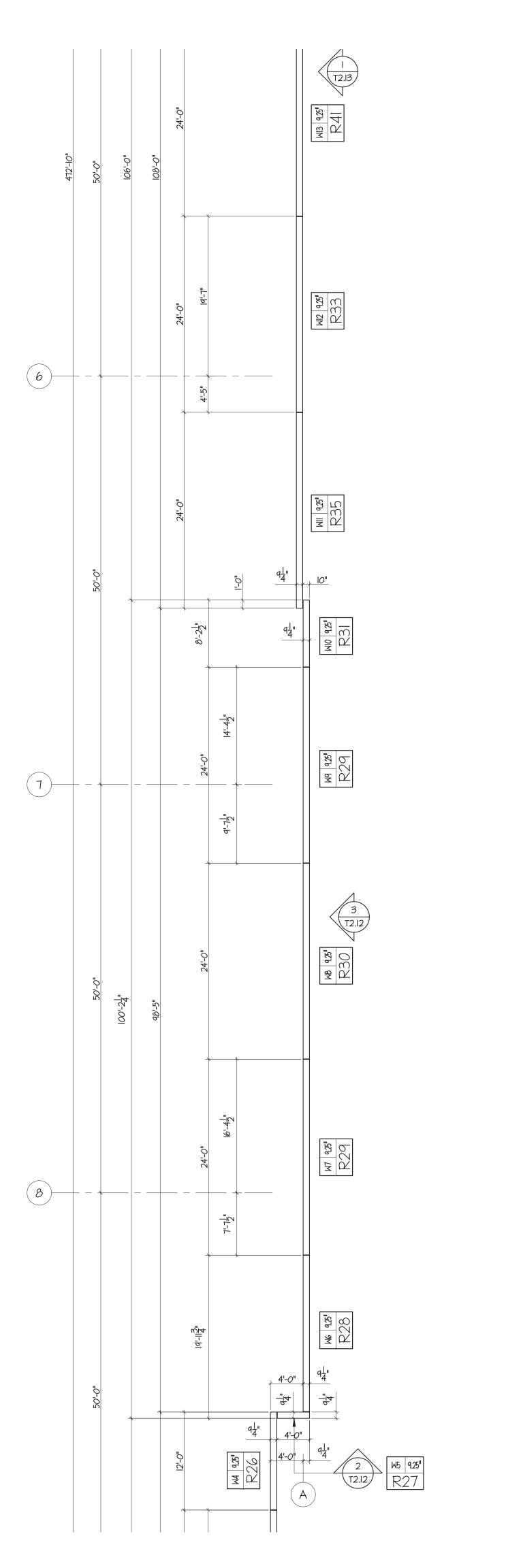
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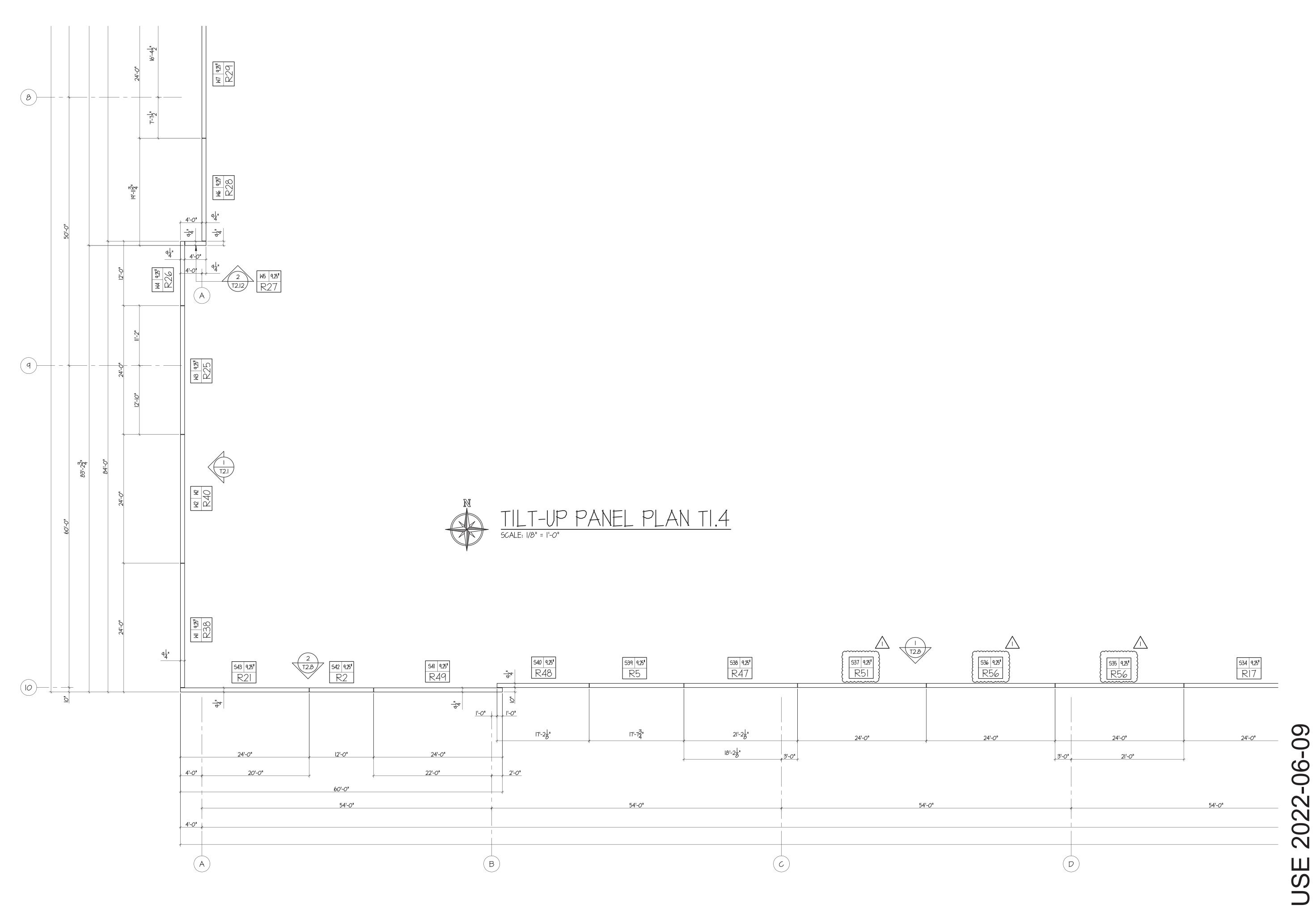
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Building A Lot 1

NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086 ISSUE TYPE ISSUE DATE

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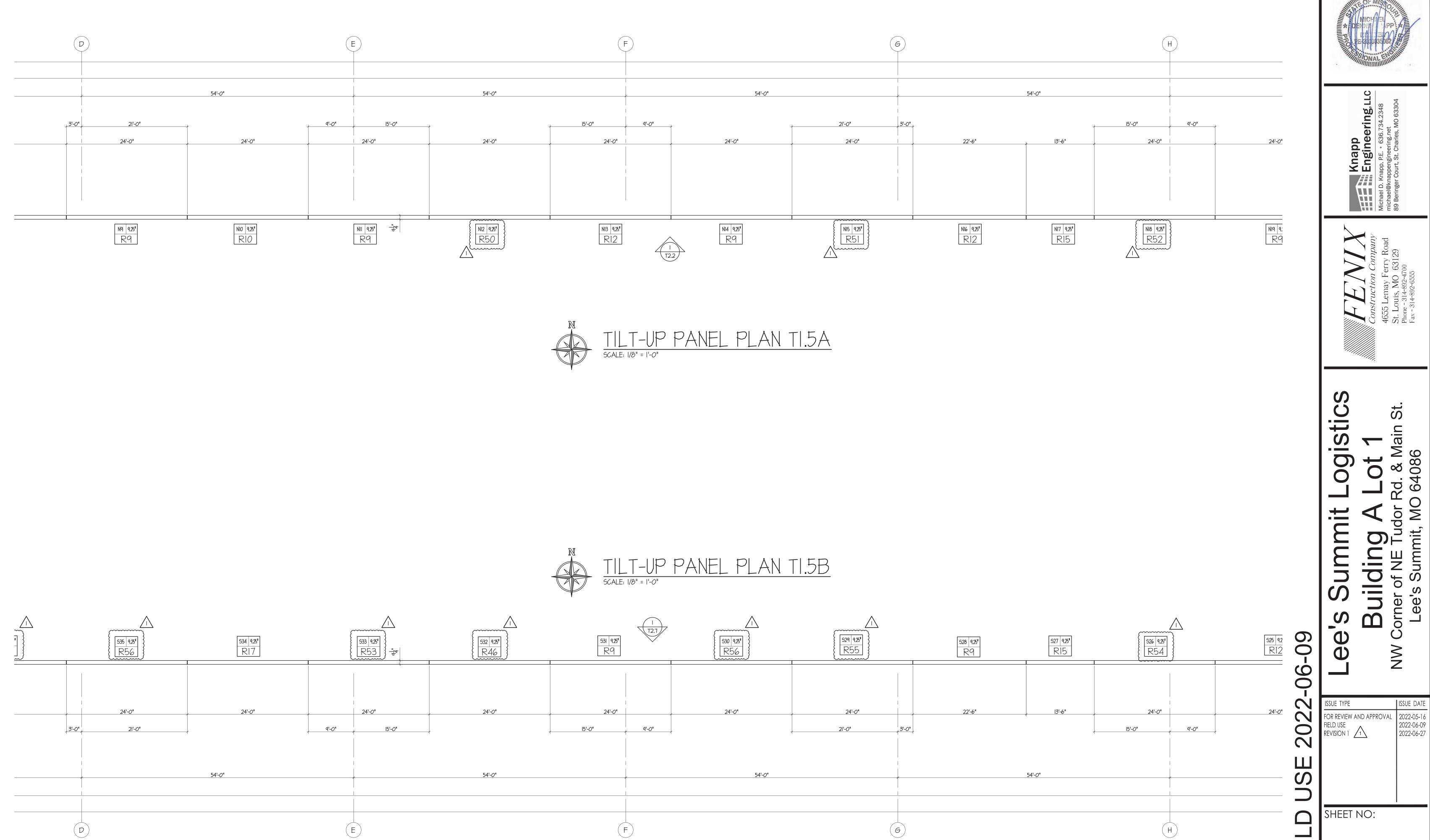
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2022-06-27

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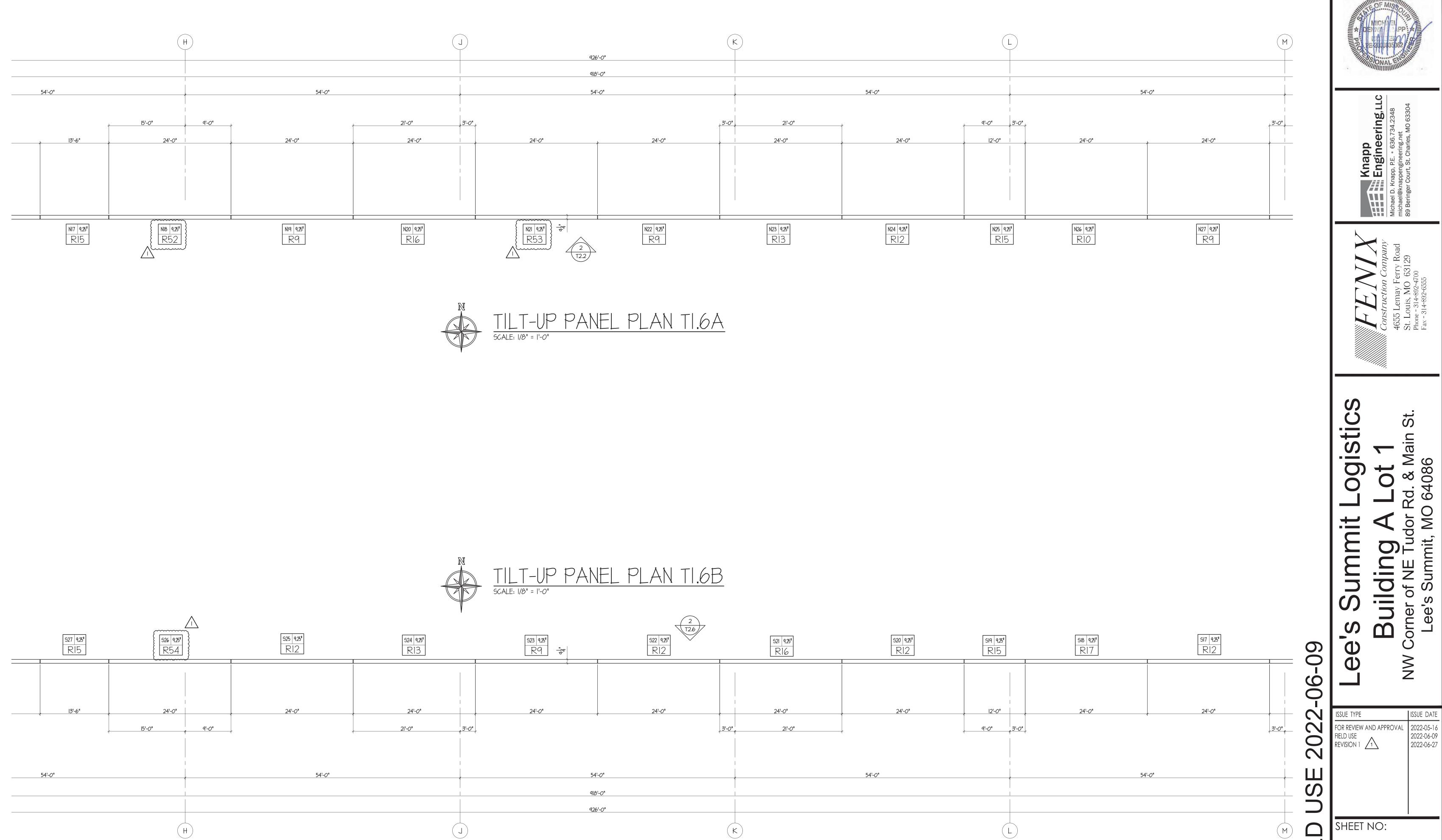


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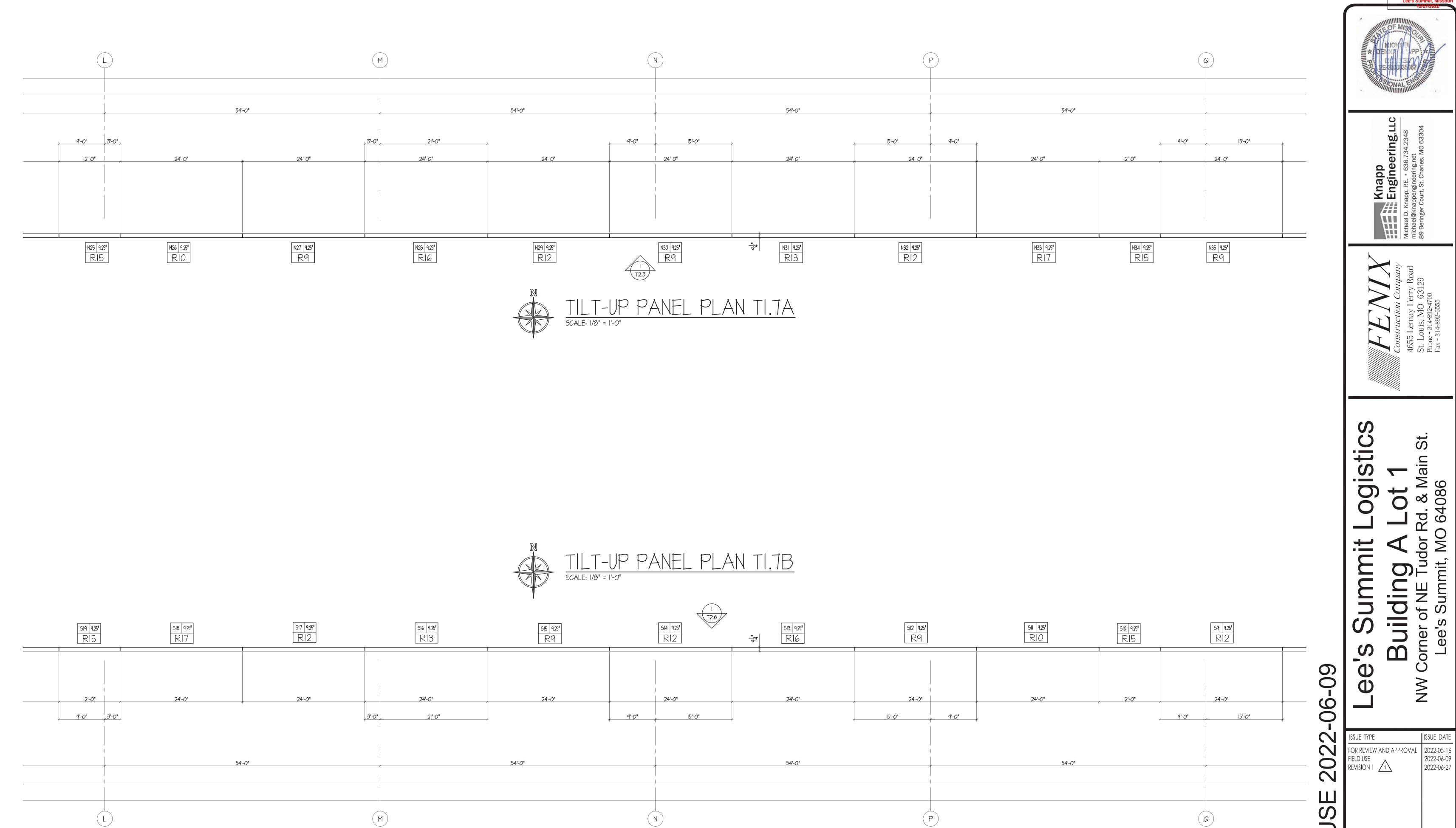
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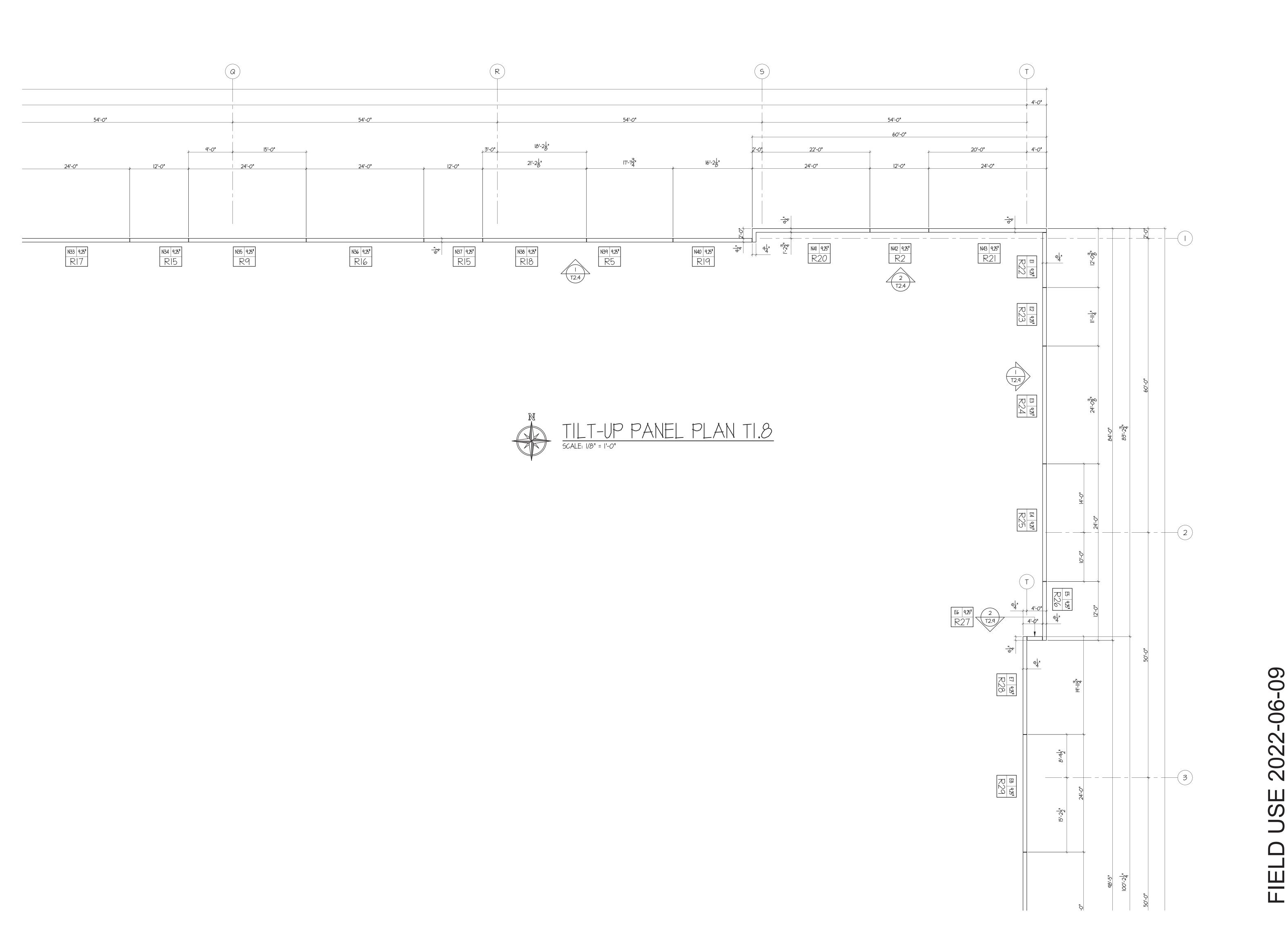


NW Corner Lee's

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Lee's Summit, MO 64086 <u>-ogi</u> Summit Lee's ISSUE TYPE ISSUE DATE

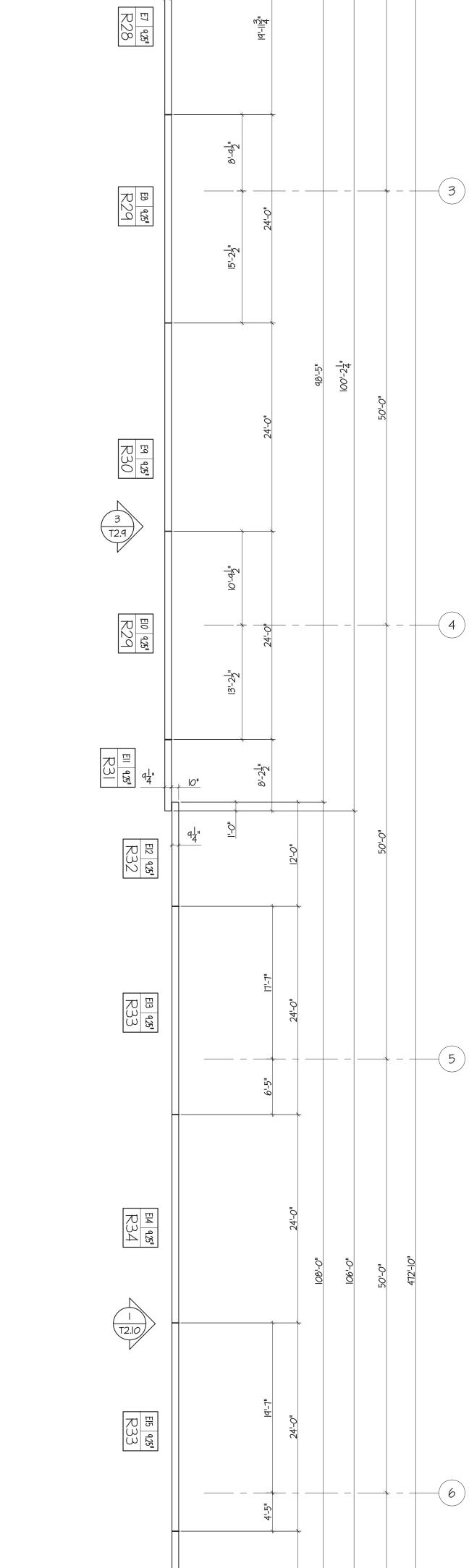
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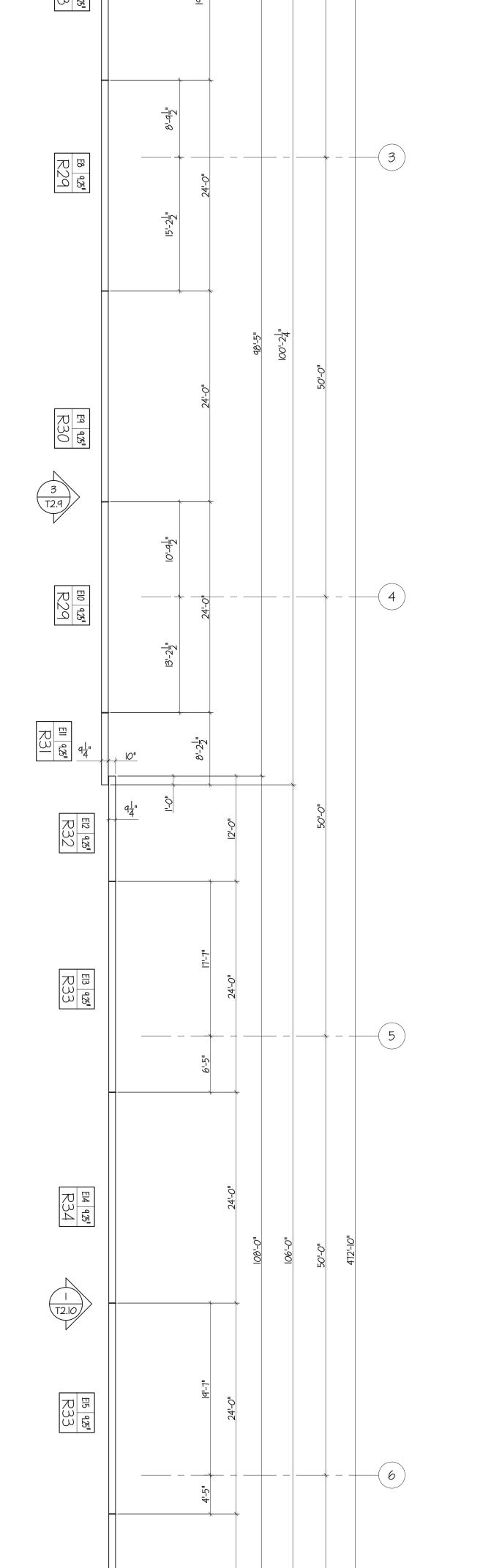
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TILT-UP PANEL PLAN TI.9

SCALE: 1/8" = 1'-0"



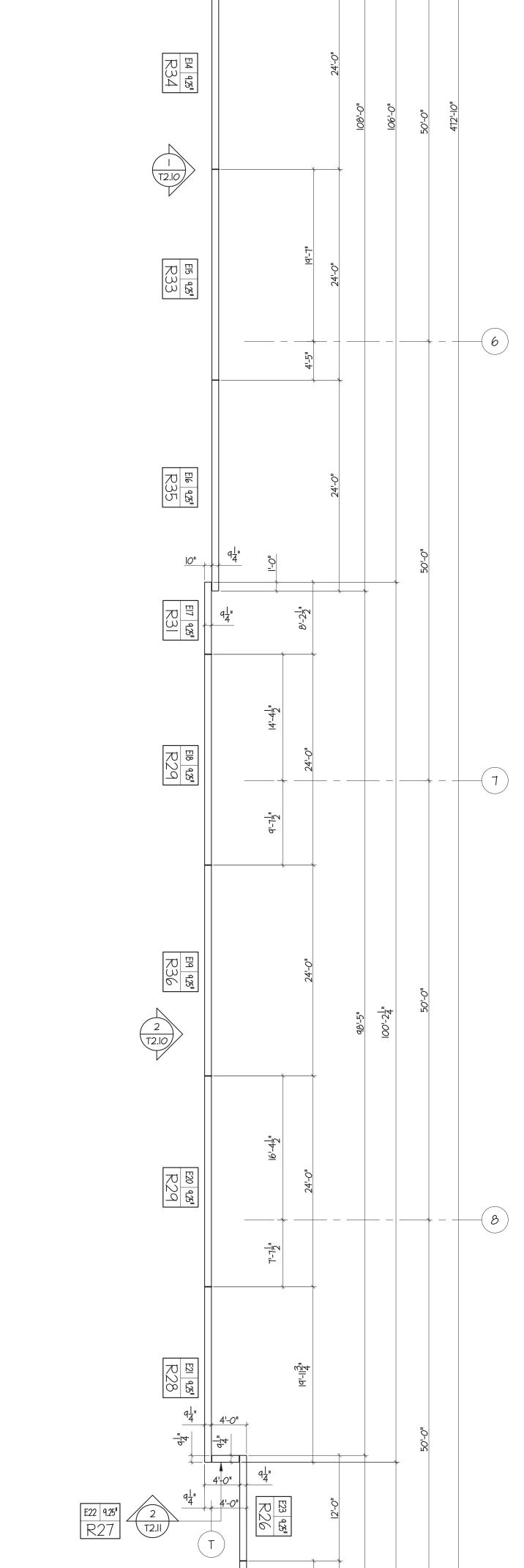
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Building A Lot 1 NW Corner of NE Tudor Rd. & Main St. Lee's Summit, MO 64086 Logi Lee's Summit

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TILT-UP PANEL PLAN TI.IO

SCALE: 1/8" = 1'-0"

2022-06-09 FIELD

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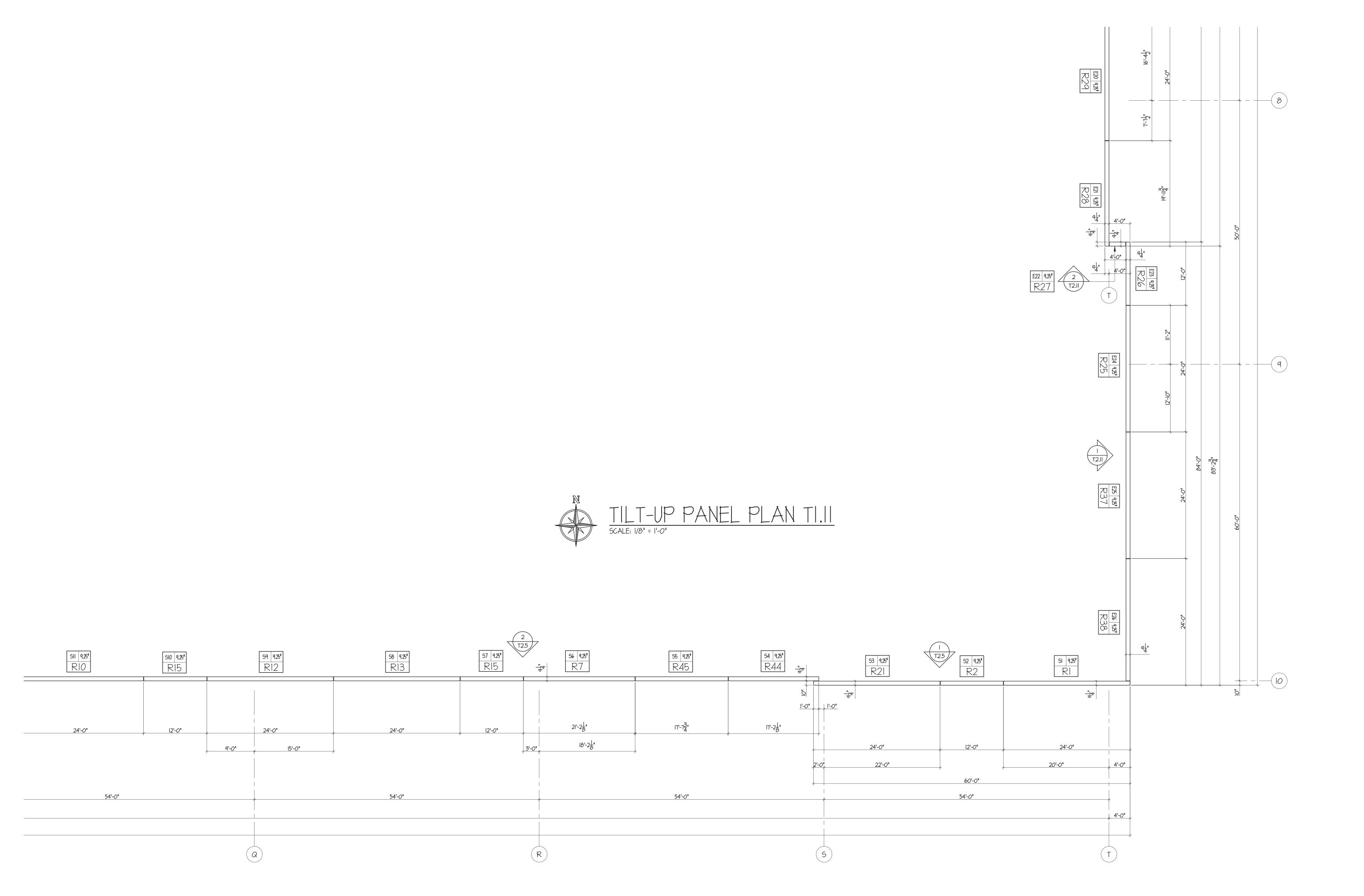
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Lee's Summit, MO 64086 Lee's Summit ISSUE TYPE ISSUE DATE

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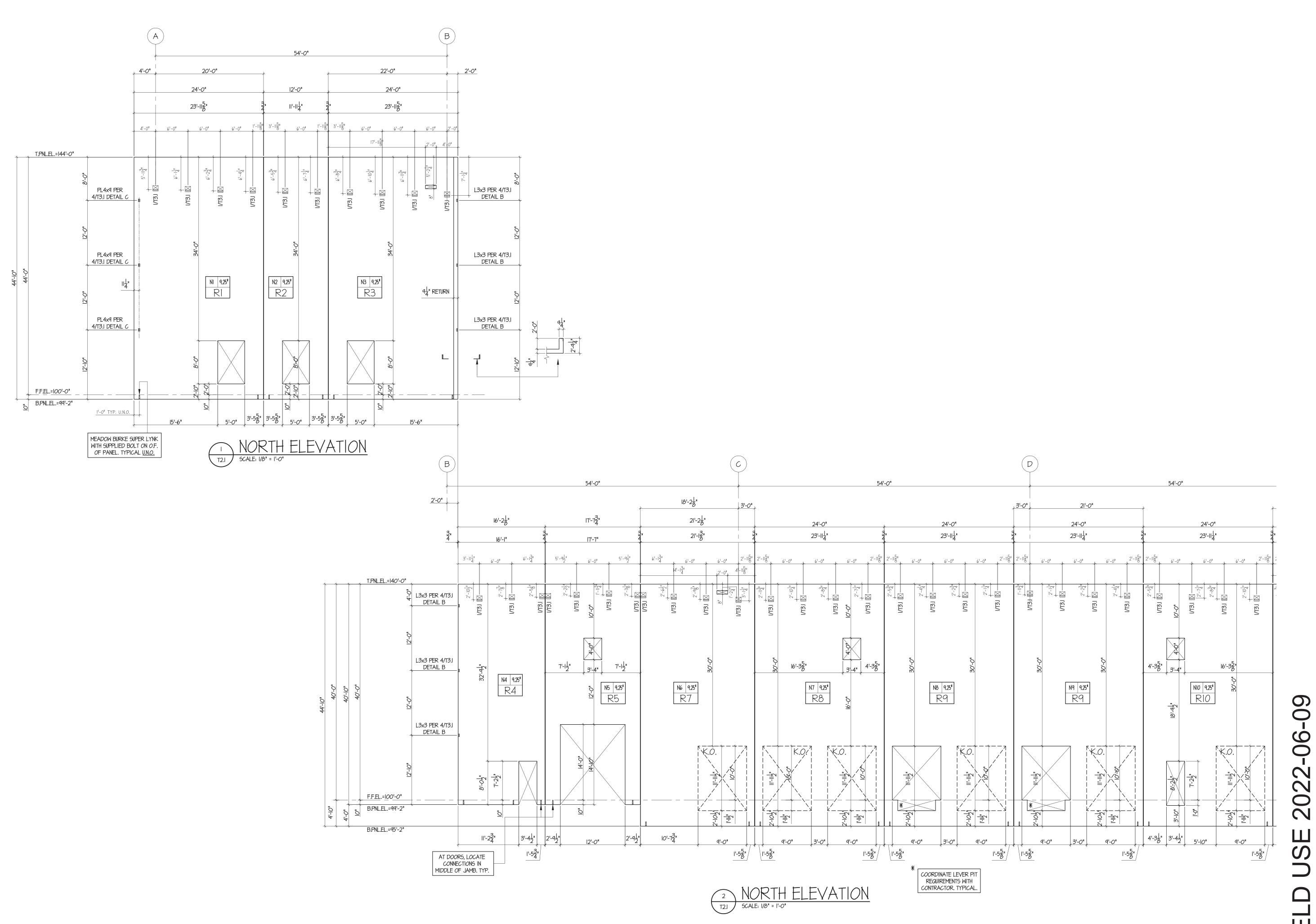
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NW Corner of NE Tudor F
Lee's Summit, MO Lee's

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Knapp
Engineering, LLC
Michael D. Knapp, P.E. • 636.734.2348
michael@knappengineering.net
89 Beringer Court, St. Charles, MO 63304



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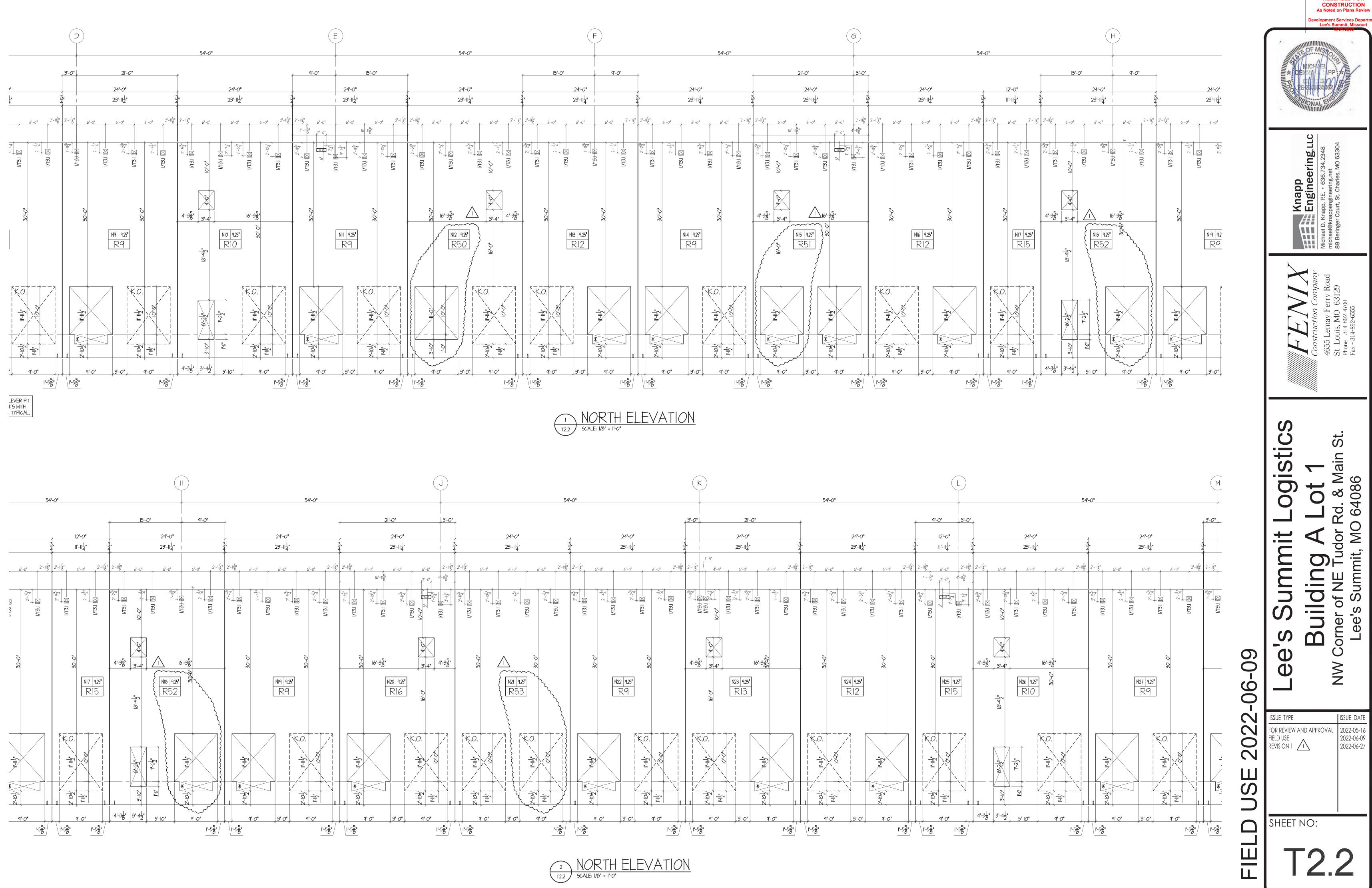
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Lee's Summit, MO 64086 go. ummit

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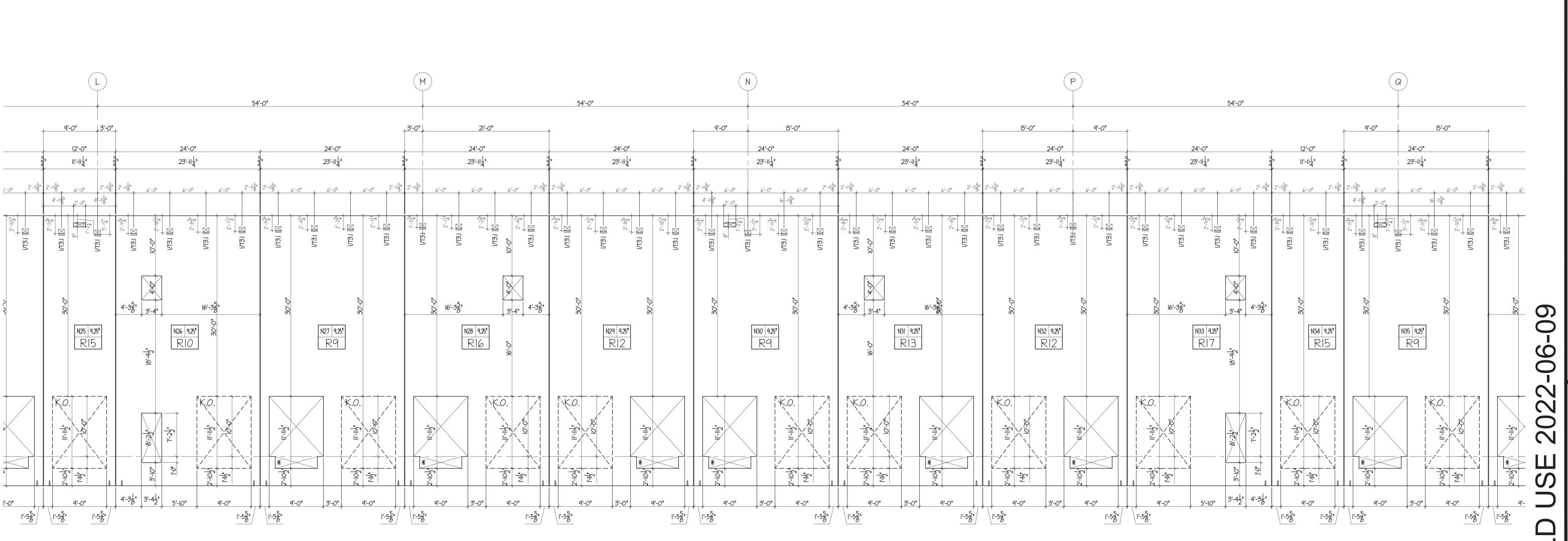
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Michael D. Knapp, P.E. • 636.
michael@knappengineering.ne
89 Beringer Court, St. Charles

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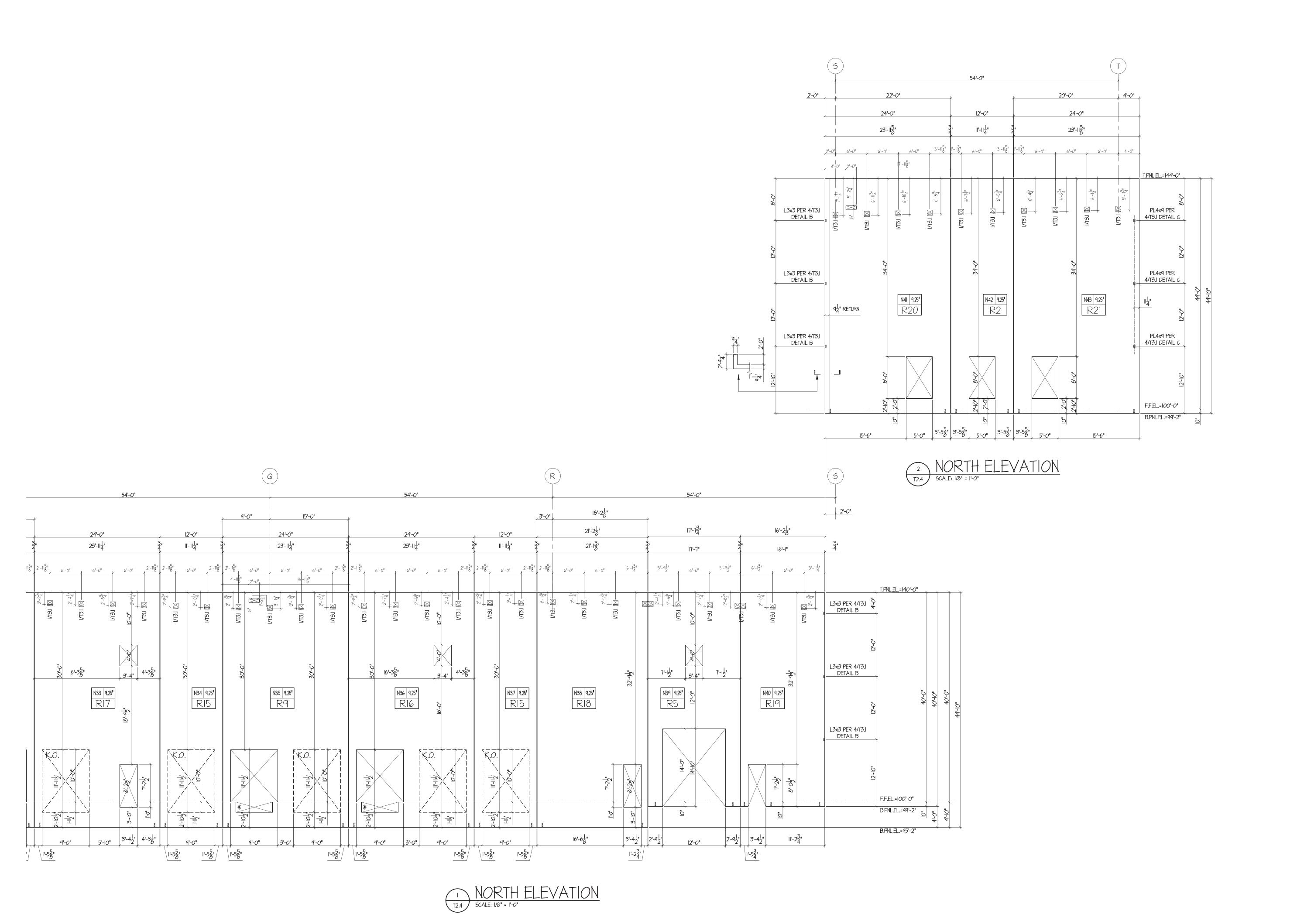
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michael@knappengineering.net
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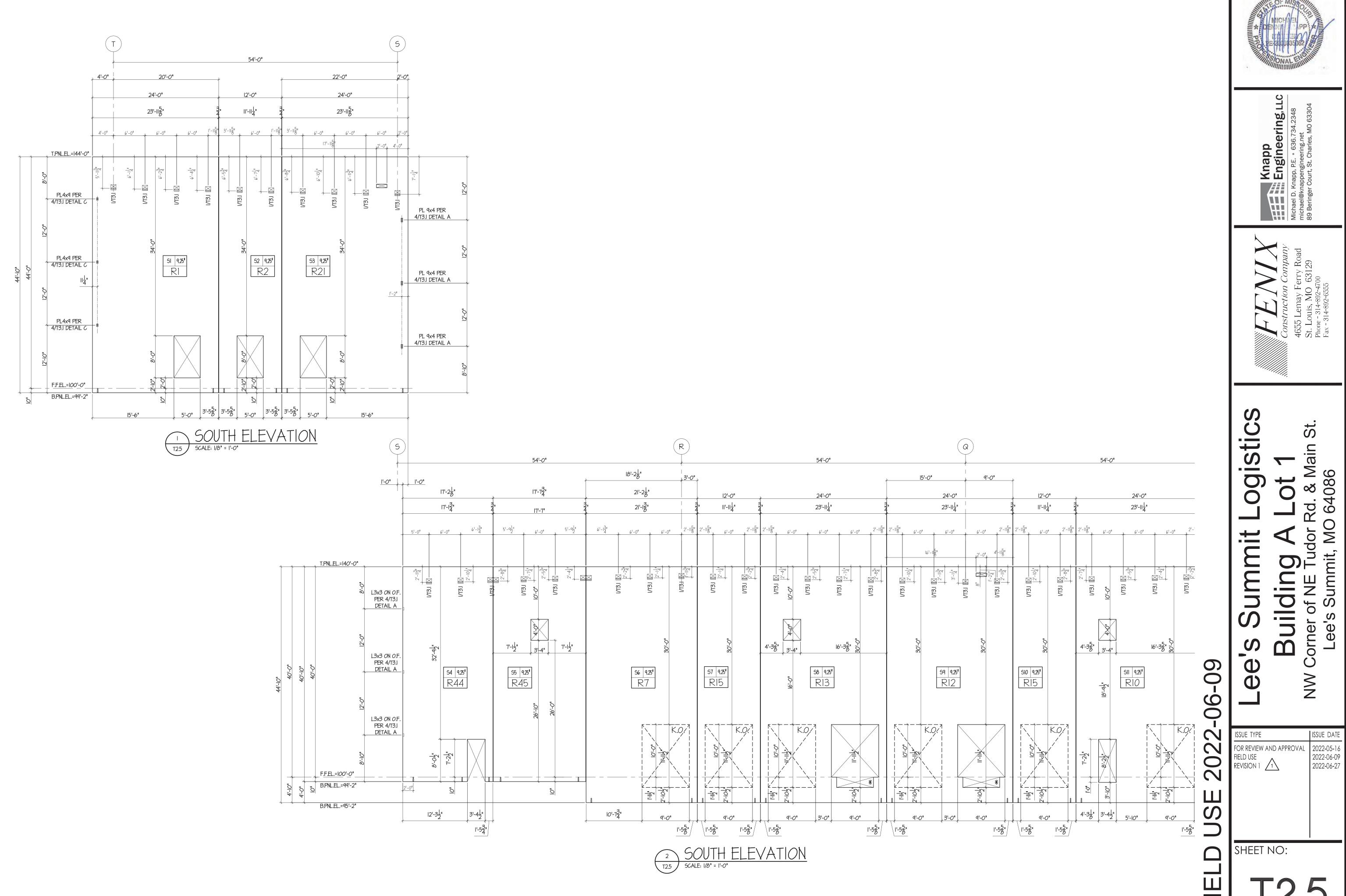
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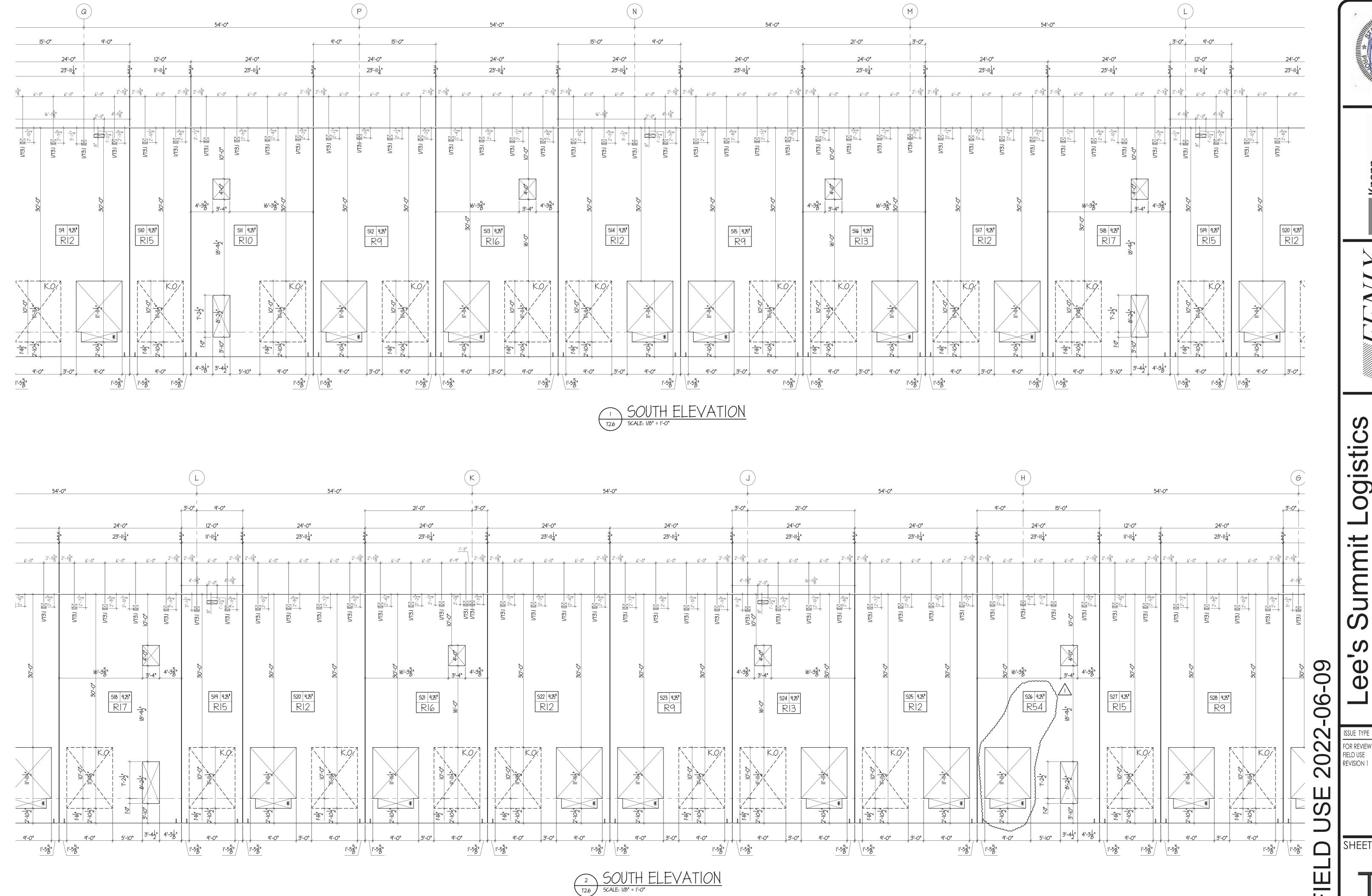
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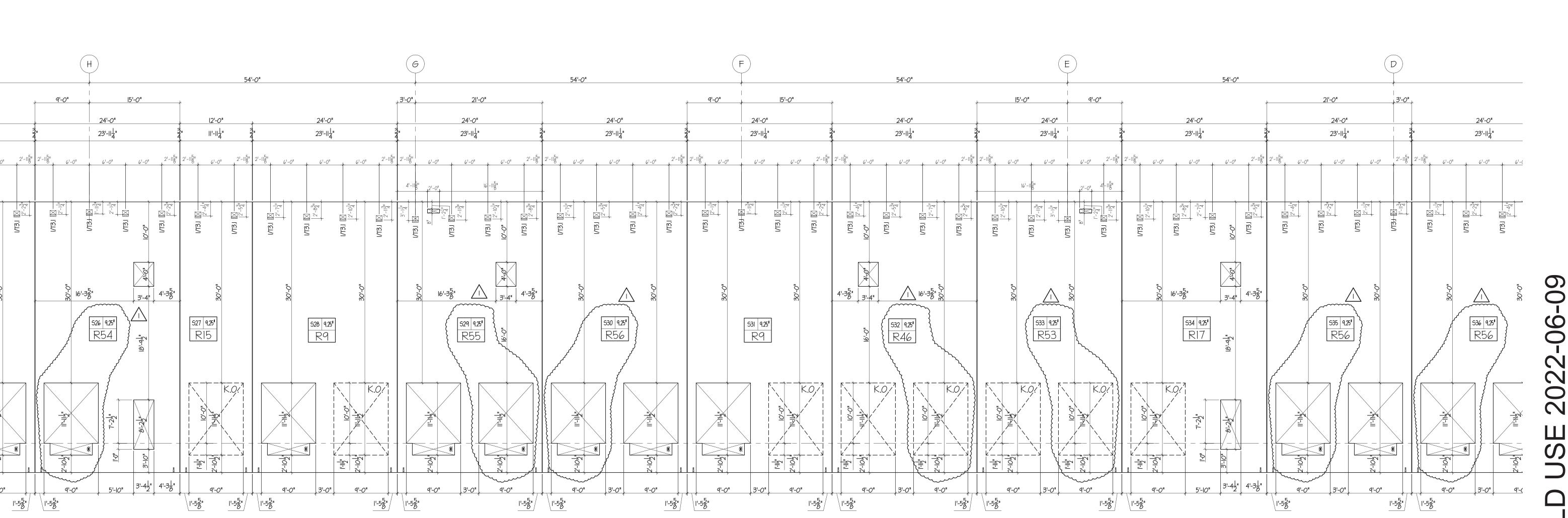
Knapp Engine Michael D michael@l 89 Bering

Consider 4655 St. Lo
Phone - Fax - 3

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5 64086 go Building A / Corner of NE Tud Lee's Summit, I

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SOUTH ELEVATION

T2.7 SCALE: 1/8" = 1'-0"

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dor Rd. & Main 9
, MO 64086 60 Building A
/ Corner of NE Tudor F
Lee's Summit, MO Lee's \geq

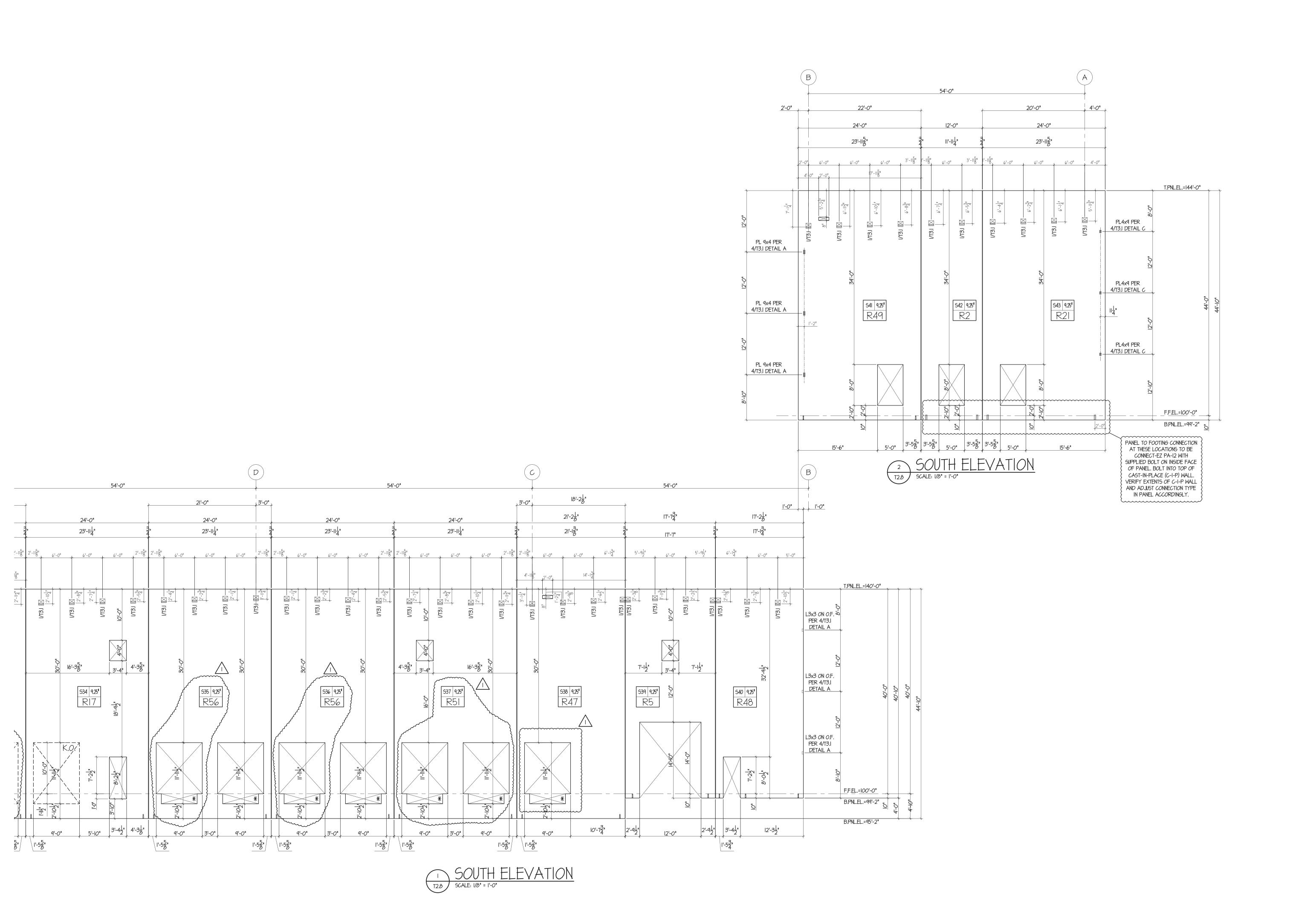
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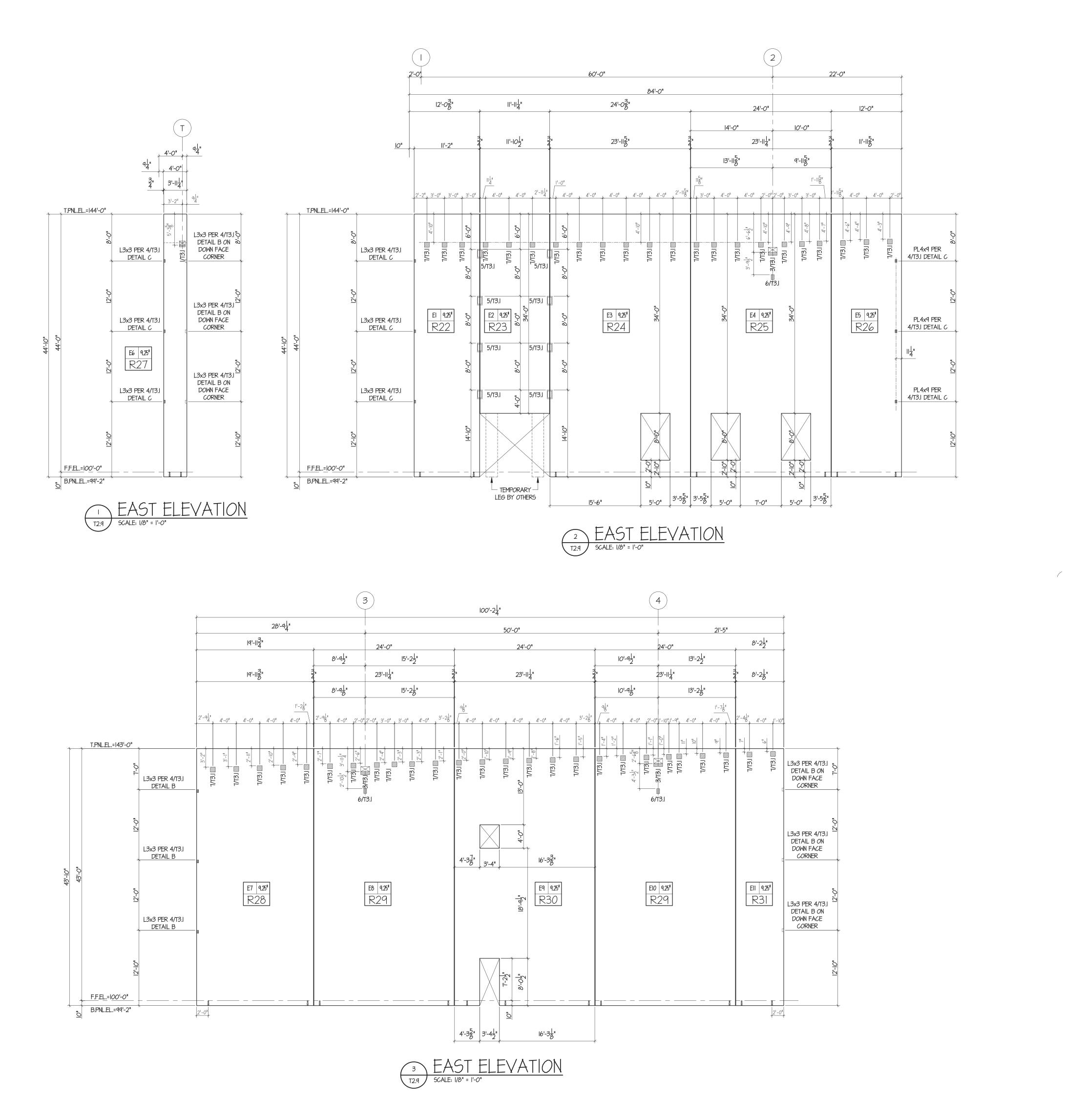
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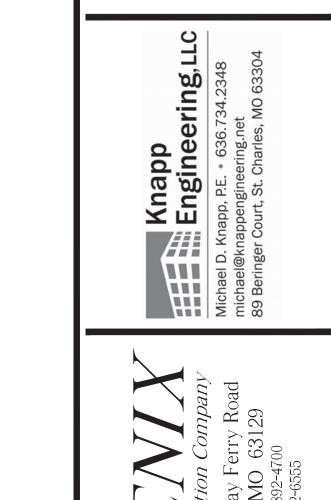
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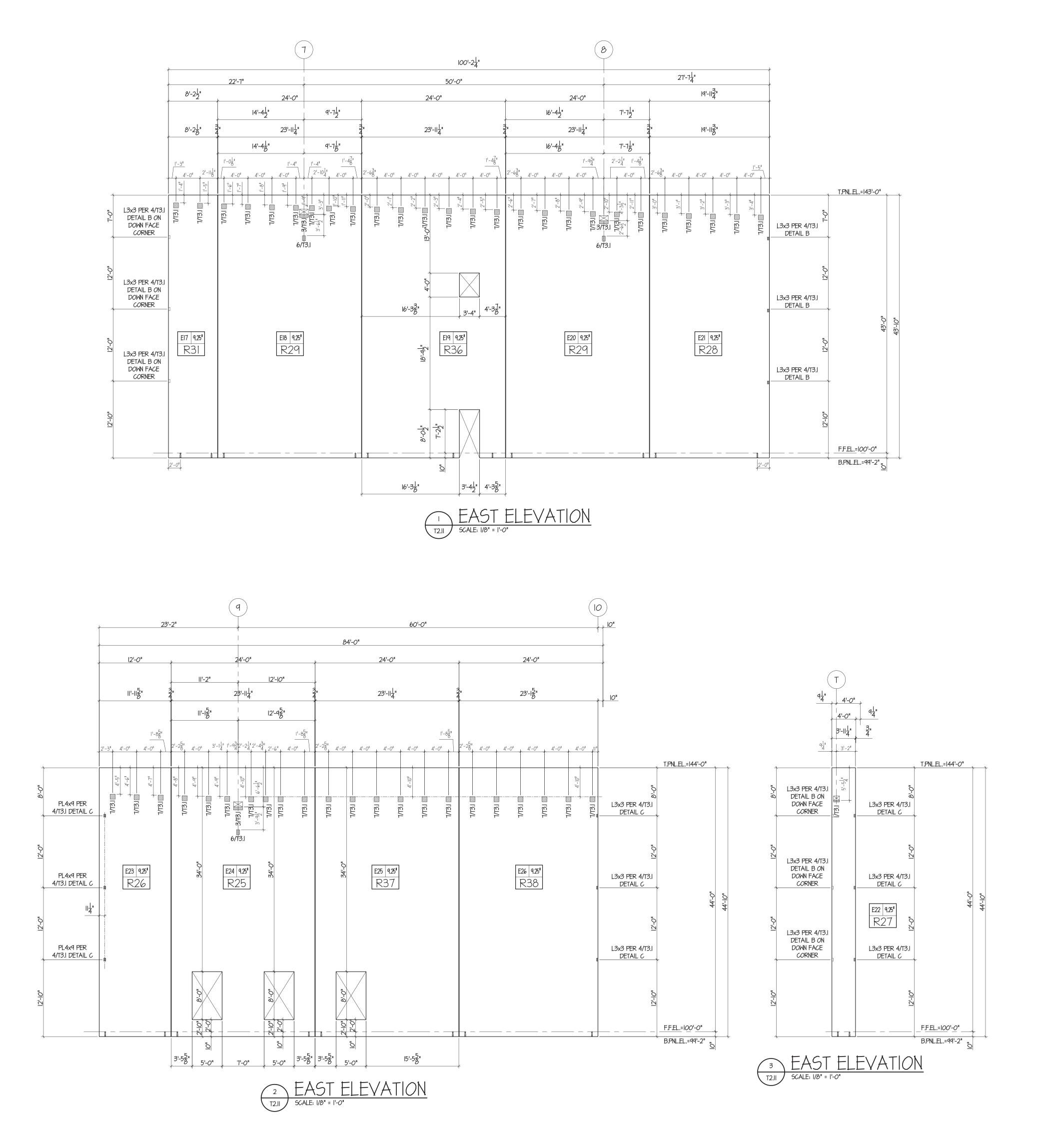
stics Building A Lot 1 NW Corner of NE Tudor Rd. & Main Lee's Summit, MO 64086 ogi Lee's

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michael@knappengineering.net
89 Beringer Court, St. Charles Mn 62201

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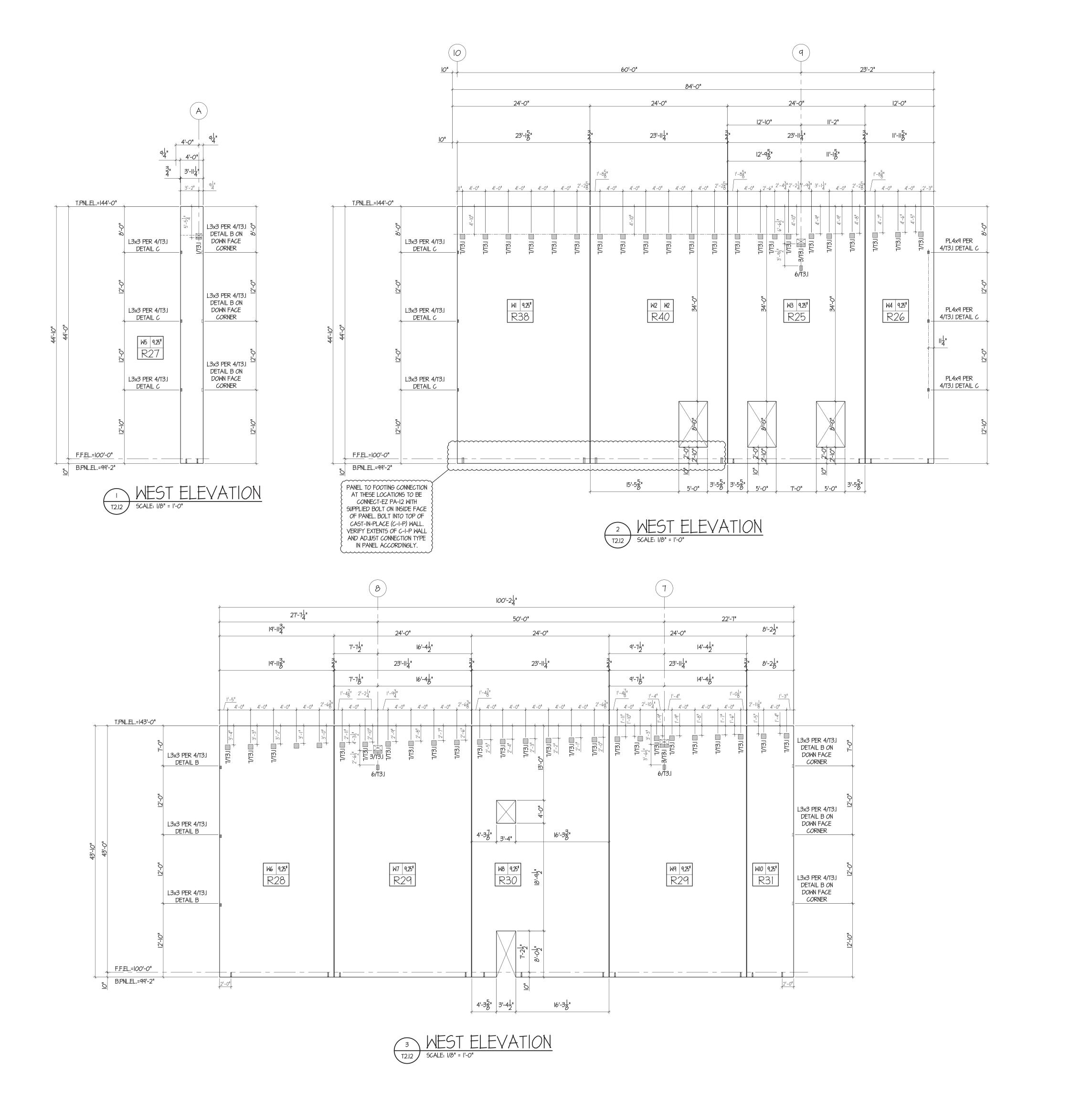
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2022-05-16 2022-06-09 2022-06-27



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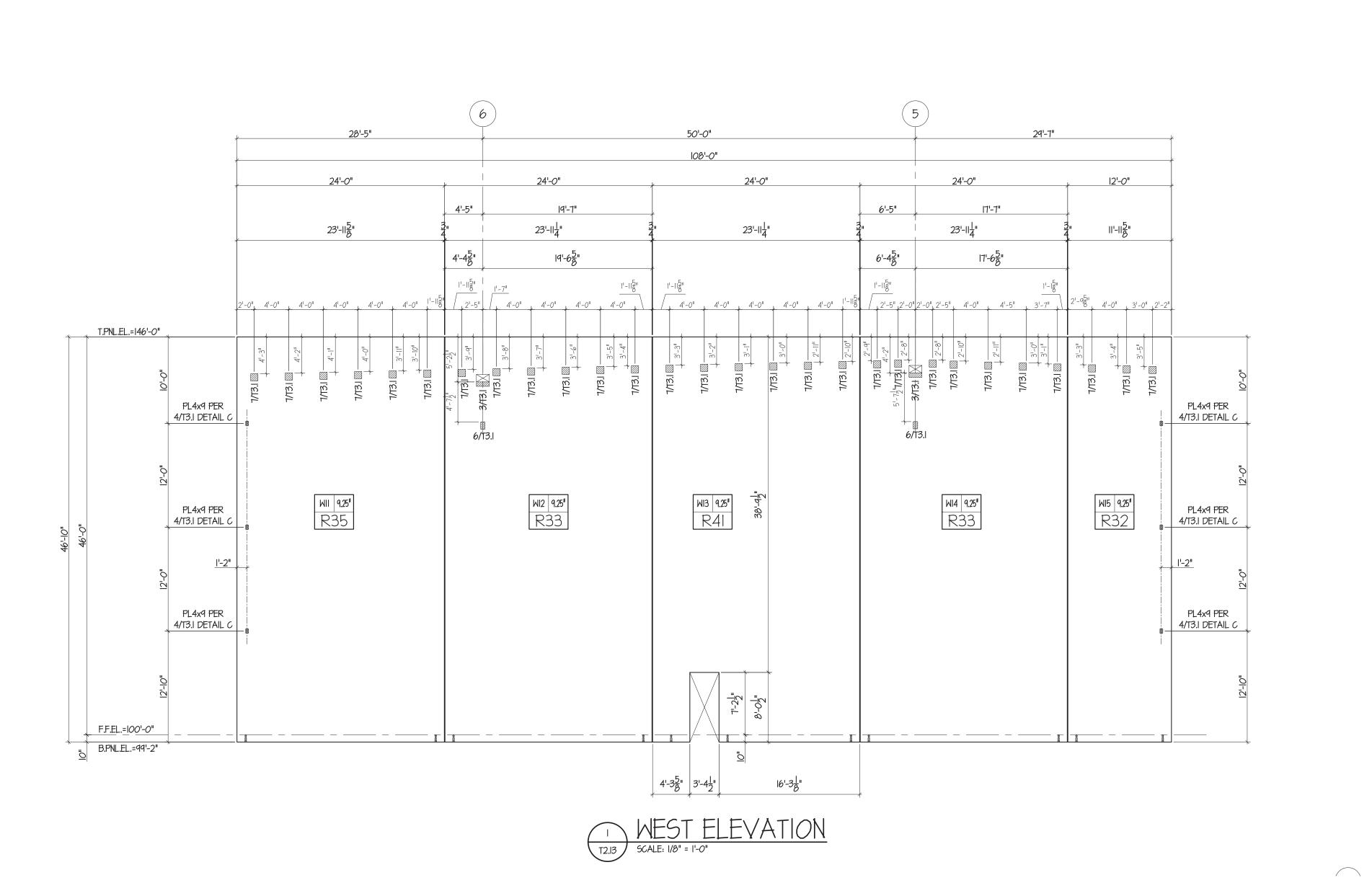
stics Building A Lot 1 Corner of NE Tudor Rd. & Main Lee's Summit, MO 64086 90 Lee's \geq

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michael@knappengineering.net
89 Beringer Court, St. Charles, MO 63304

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stics Building A Lot 1 NW Corner of NE Tudor Rd. & Main Lee's Summit, MO 64086 ogi Lee's

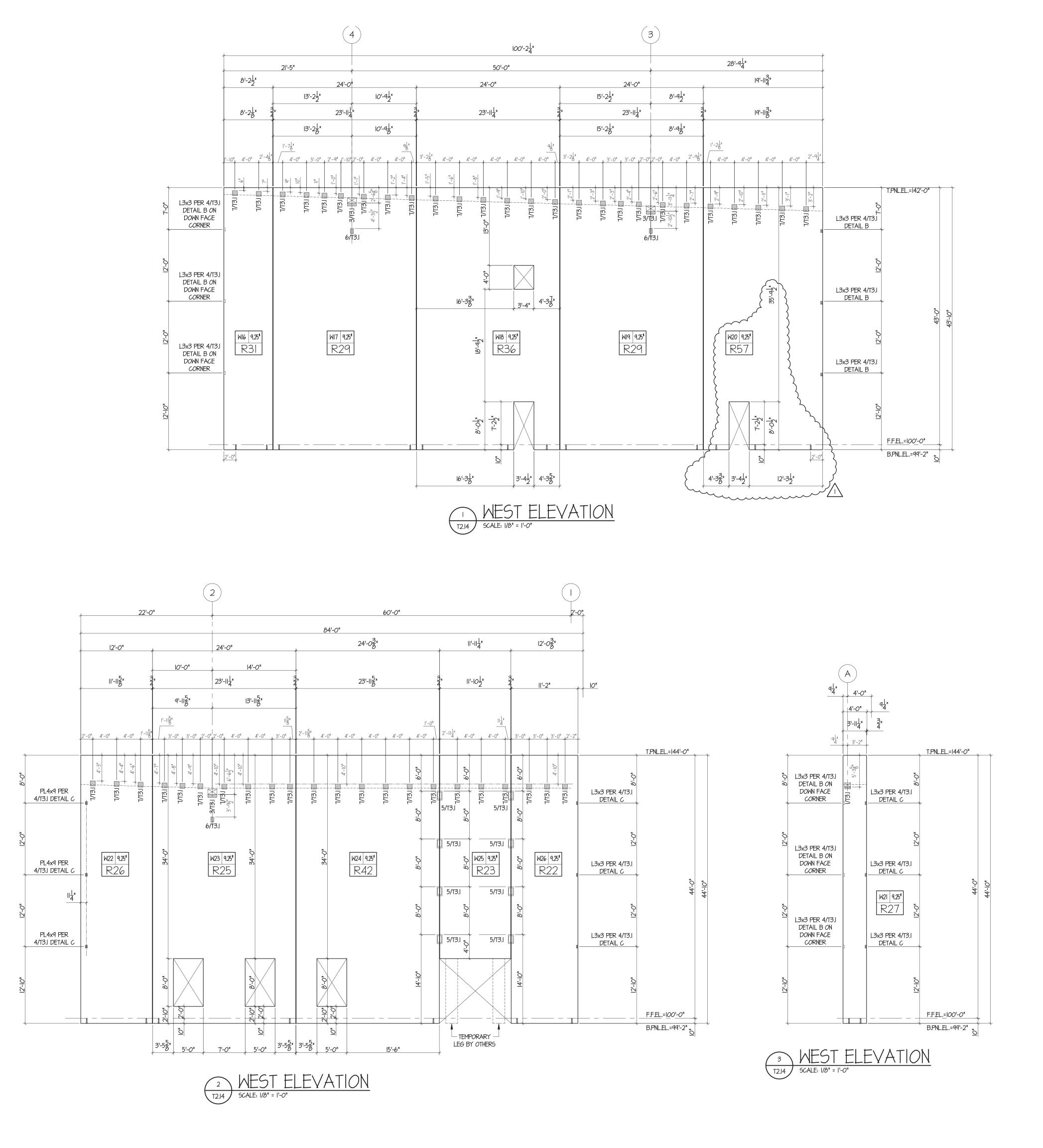
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Knapp

Construction Company
4655 Lemay Ferry Road
St. Louis, MO 63129
Phone - 314-892-4700
Fax - 314-892-6555

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2022-06-27

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T2.14

PANEL GENERAL NOTES:

- I.) ALL TILTUP PANELS ARE SHOWN FROM THE INSIDE WITH THE OUTSIDE FACE DOWN.
- 2.) WALL PANELS SHALL NOT BE LIFTED UNTIL THE CONCRETE HAS ATTAINED A COMPRESSIVE STRENGTH OF 3,000psi AND A MINIMUM FLEXURAL STRENGTH OF 500psi AS DETERMINED BY STANDARD BEAMS FIELD CURED AND BROKEN IN ACCORDANCE WITH ASTM C18-64 (OR AS OTHERWISE SPECIFIED BY THE LIFTING AND BRACING ENGINEER). <u>CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF</u> 4,500psi (OR AS NOTED OTHERWISE ON DRAWINGS).
- 3.) FOR REINFORCING STEEL PLACEMENT REFER TO THE T4 SHEETS.
- 4.) FOR PANEL LIFTING AND BRACING, REFER TO DRAWINGS BY OTHERS.
- 5.) CHLORIDE BASED ADMIXTURES ARE PROHIBITED IN CONCRETE USED FOR WALL PANELS.
- 6.) TEMPORARY BRACING (BY OTHERS) SHALL BE PROVIDED FOR WALL PANELS IN THE ERECTED POSITION. INSTALLATION OF WALL BRACES SHALL MEET ALL REQUIREMENTS OF THE BRACE SUPPLIER.
- 1.) TEMPORARY BRACING (BY OTHERS, ie. MEADOW-BURKE) SHALL BE DESIGNED PER "TILT-UP CONCRETE ASSOCIATIONS GUIDELINE FOR TEMPORARY WIND BRACING OF TILT-UP CONCRETE PANELS DURING CONSTRUCTION" (LATEST VERSION).
- 8.) MAXIMUM DEPTH OF HORIZONTAL AND VERTICAL REVEALS (OR BRICK) IS 3/4". ALL TILTUP PANELS WILL BE SIZED AND DETAILED BASED ON A 3/4" REVEAL (BRICK) DEPTH. ANY REDESIGN REQUIRED DUE TO DEEPER REVEALS WILL BE TREATED AS ADDITIONAL SERVICES. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL REVEAL INFORMATION INCLUDING EXACT LOCATIONS. REVEALS (BRICK) MAY BE SHOWN ON THE TILTUP DRAWINGS IN THEIR APPROXIMATE LOCATIONS OR MAY BE EXCLUDED FROM THE TILTUP DRAWINGS FOR CLARITY. TILTUP DRAWINGS WILL NOT BE REVISED TO SHOW RELOCATED OR ADDITIONAL REVEALS (BRICK).
- 9.) TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL BUILDING LATERAL FRAMING SYSTEM IS COMPLETE (i.e.-METAL ROOF DECK, BRACES, MOMENT FRAMES, FLOOR SLAB, etc.) OR AS DIRECTED BY THE PROJECT "ENGINEER OF RECORD".

PANEL REINFORCING NOTES:

1/4 |

PL. 3/8"x4"x0'-9" WITH WITH (3) 1/2" DIA.x2'-9" WELDABLE REBAR,

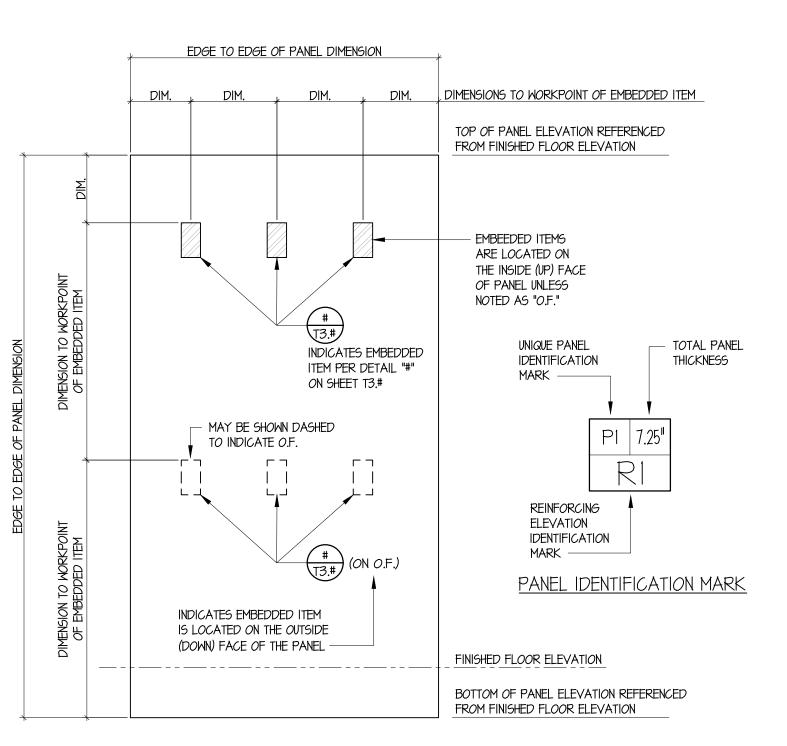
TYP AT QUARTER POINTS OF PANEL

L3x3x1/4x0'-6"

3/16/

L3x3x1/4x0'-9" WITH (3) 1/2"— DIA.x2'-9" WELDABLE REBAR, TYP AT QUARTER POINTS OF PANEL

- I.) ALL REBAR TO BE ASTM A615 GRADE 60 U.N.O.
- 2) MAINTAIN 6" CLEAR FOR ALL BARS PARALLEL TO FUTURE OPENINGS UNLESS SHOWN OTHERWISE. ADDITIONAL REINFORCING BARS AT FORMED OR FUTURE OPENINGS SHALL BE LOCATED AS SHOWN.
- 3.) THE CLEAR DISTANCE BETWEEN PARALLEL BARS IN A LEVEL SHALL NOT BE LESS THAN 2".
- 4.) REBAR CLEAR DISTANCE AT EDGES OF PANEL PER THE FOLLOWING: (COMPLIES WITH THE APPLICABLE VERSION OF ACI-318) AT SIDES OF PANELS WITH CAULKED PANEL JOINTS = 3/4". AT BOTTOM OF GROUTED PANELS = 3/4".
- AT TOP OF PANELS WITH WEATHER PROOFING (ie. METAL FLASHING, TIMBER NAILER, etc.) = 3/4". AT ANY EDGE OF PANELS THAT ARE NOT PROTECTED FROM THE WEATHER: #6 BARS OR LARGER = 2".
- #5 BARS OR SMALLER = 1 1/2". INSIDE AND OUTSIDE FACE REBAR CLEAR DISTANCES PER THE DETAILS ON THE T3 SHEETS.
- 5.) HORIZONTAL & VERTICAL BARS SHALL NOT BE SPLICED EXCEPT AS APPROVED BY THE TILT-UP ENGINEER.
- 6.) HORIZONTAL AND VERTICAL REINFORCING BARS SHALL BE SECURELY TIED AT 30% OF THEIR INTERSECTIONS. TIES ARE TO BE DISTRIBUTED UNIFORMLY THROUGHOUT THE REINFORCING MAT. BARS SHALL BE TIED ADEQUATELY TO TO PREVENT REBAR FROM MOVING DURING CONCRETE PLACEMENT.



RE: PLAN

RE: ARCH

TYPICAL PANEL TO PANEL CONNECTIONS

- (I)-I/2" $\phi \times$ I'-0" LG HEADED A.B.

I/2" DIA. x 3" EMBEDDED HILTI KWIK HUS SCREW ANCHOR (OR CODE APPROVED EQUAL)

- PL 3/x4"x1'-4" LG.

<u>'B' ALTERNATE</u>

($10\frac{1}{2}$ " EMB. + $1\frac{1}{2}$ " PROJECTION). LOCATE BOLT PER ELEV.

PL. 3/8"x4"x0'-4" TYP AT

QUARTER POINTS OF PANEL

- L6"x6"x1/4" x 1'-0" LG

'C' ALTERNATE

PER

w/(4)-I/2" DIA. x 3" EMBEDDED HILTI KWIK HUS SCREW ANCHOR (OR

CODE APPROVED EQUAL) AT 9"o.c.

SEE ELEVATIONS FOR LOCATIONS



L3x3x1/4x0'-9" WITH (3)

1/2" DIA.x2'-9" WELDABLE REBAR, TYP AT QUARTER

POINTS IN PANEL



3/4" CHAMFERED

EDGE, RE: ARCH.

FOR ADDITIONAL

VENEER DETAILS

INSIDE FACE OF PANEL

└─ L6"x6"x¼"x1'-0" LG

RE: PLAN

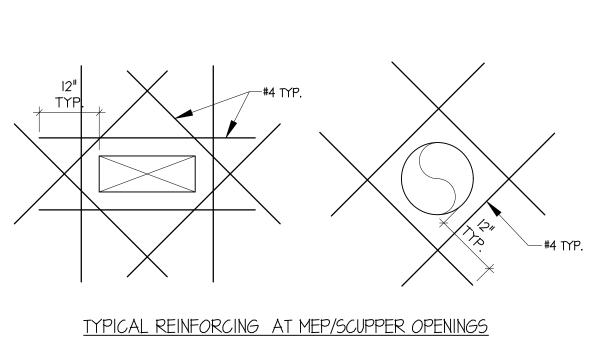
(2)-#5x3'-O" LG.

(2)-I/2"Φ x I'-O" LG. ASTM

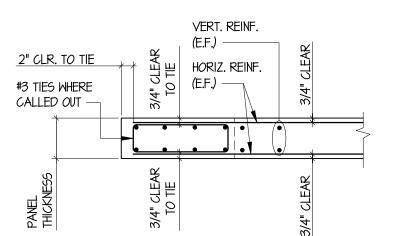
(2)-1/2" DIA. x 3" EMBED. min @ 9"o.c. HILTI KWIK HUS-EZ ANCHORS (OR CODE APPROVED EQUAL)

FI554 GRADE 36 HEADED A.B. @ 9"o.c. LOCATE PER ELEV.

CENTERED ON BOLT -







PANELS WITH REINFORCING EACH FACE (E.F.) TYPICAL PANEL REINFORCING DETAILS

PL. 3/8"x4"x0"-9" WITH
WITH (3) 1/2" DIA.x2"-9"
WELDABLE REBAR, TYP AT
QUARTER POINTS OF PANEL

1/4

3/16/

PL 3/8"x8"x4"

w/(2)-1/2" DIA.

x 4" LG. HAS ---

- L3x3x1/4x0'-6"

- L3x3x1/4x0'-9" WITH (3) 1/2"

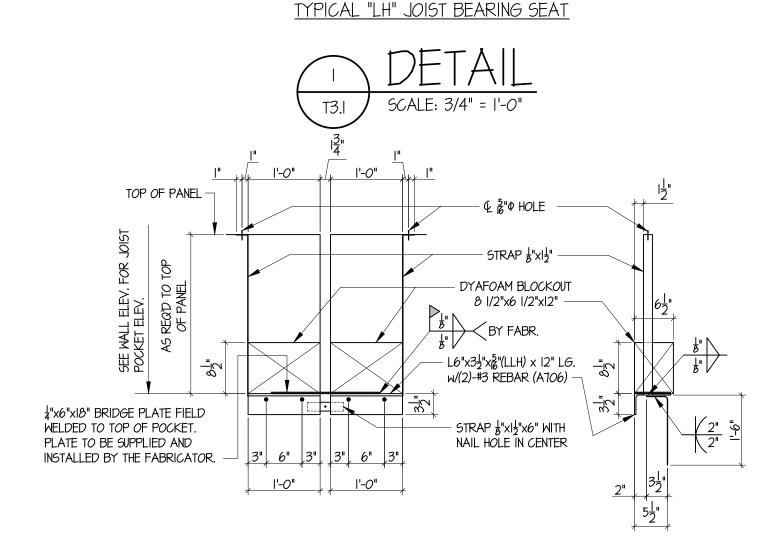
DIA.x2'-9" WELDABLE REBAR, TYP AT QUARTER POINTS OF PANEL

PL 1/2"x10"x10"

w/(4)-1/2" DIA.

x 4" LG. HAS —





- 仏彦"の HOLE

- STRAP | xl2"

DYAFOAM BLOCKOUT

8 1/2"x6 1/2"x12"

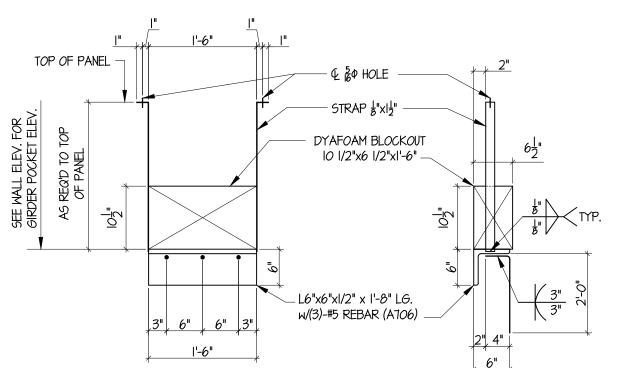
w/(2)-#3 REBAR (A706) -

1'-0"

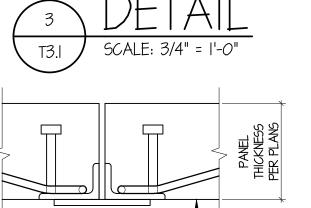
TOP OF PANEL

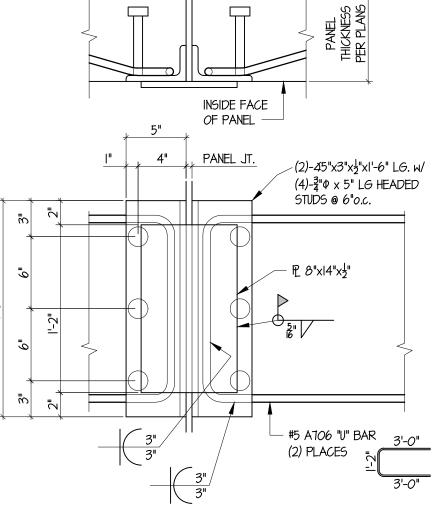


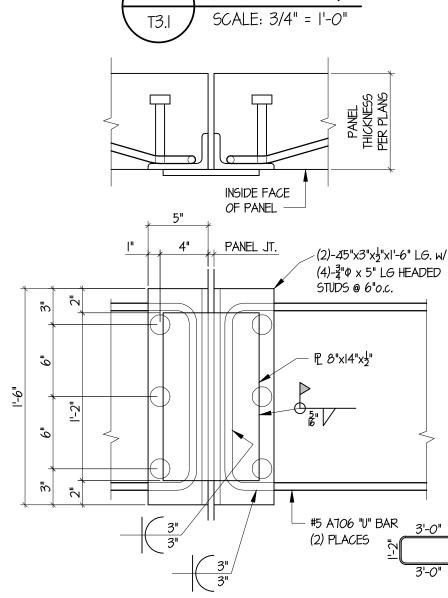




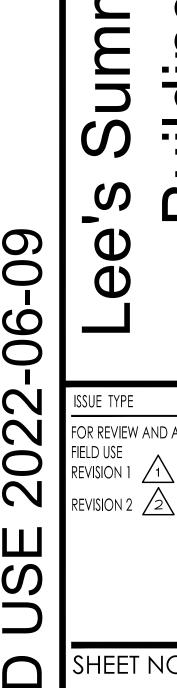
TYPICAL GIRDER BEARING SEAT











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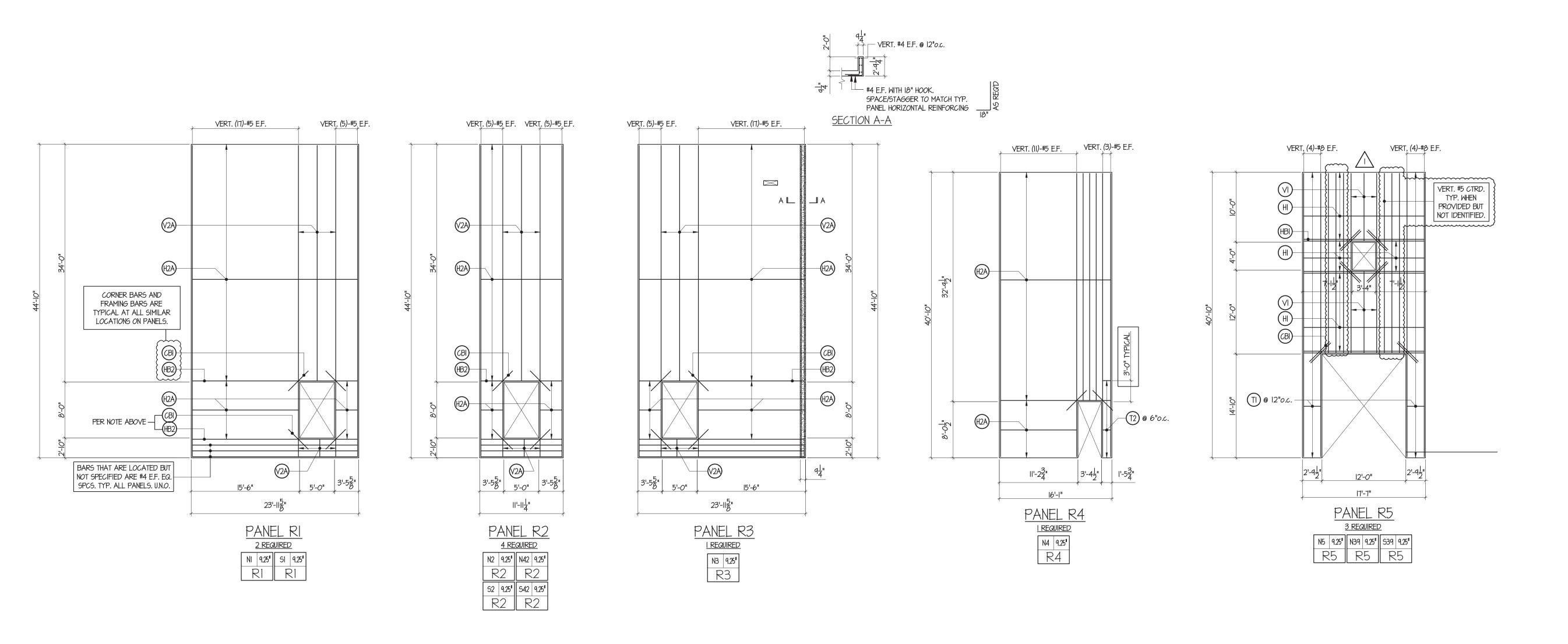
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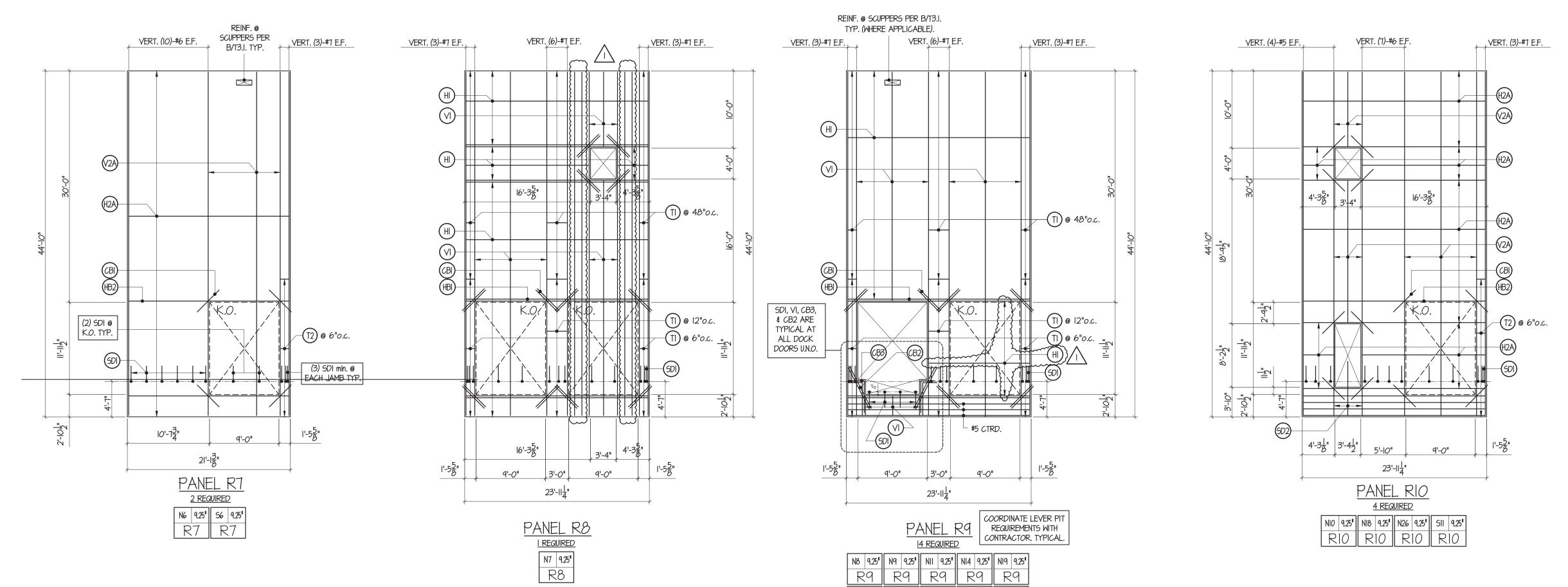
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1. & N 14086

Knapp Engine

MMM

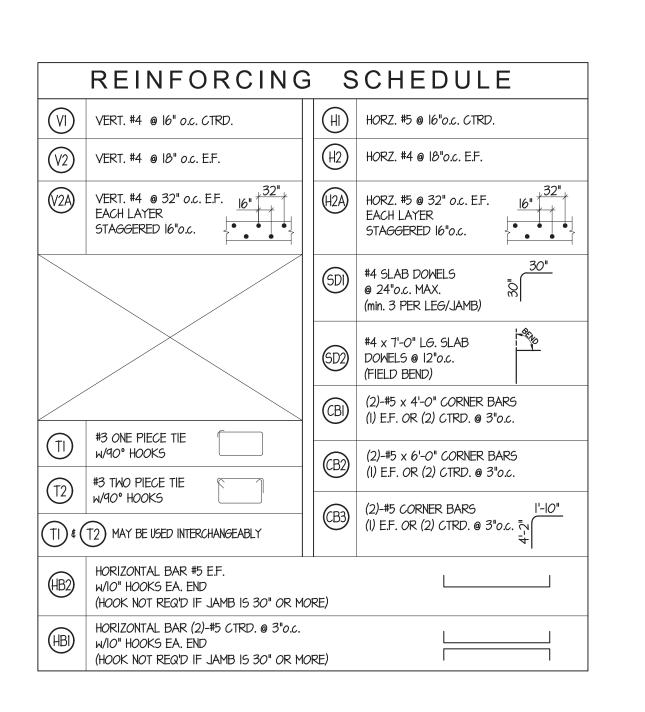




 N22
 9.25"
 N27
 9.25"
 N30
 9.25"
 N35
 9.25"
 S12
 9.25"

 R9
 R9
 R9
 R9
 R9

SI5 | 9.25" | S23 | 9.25" | S28 | 9.25" | S31 | 9.25" | R9 | R9 | R9



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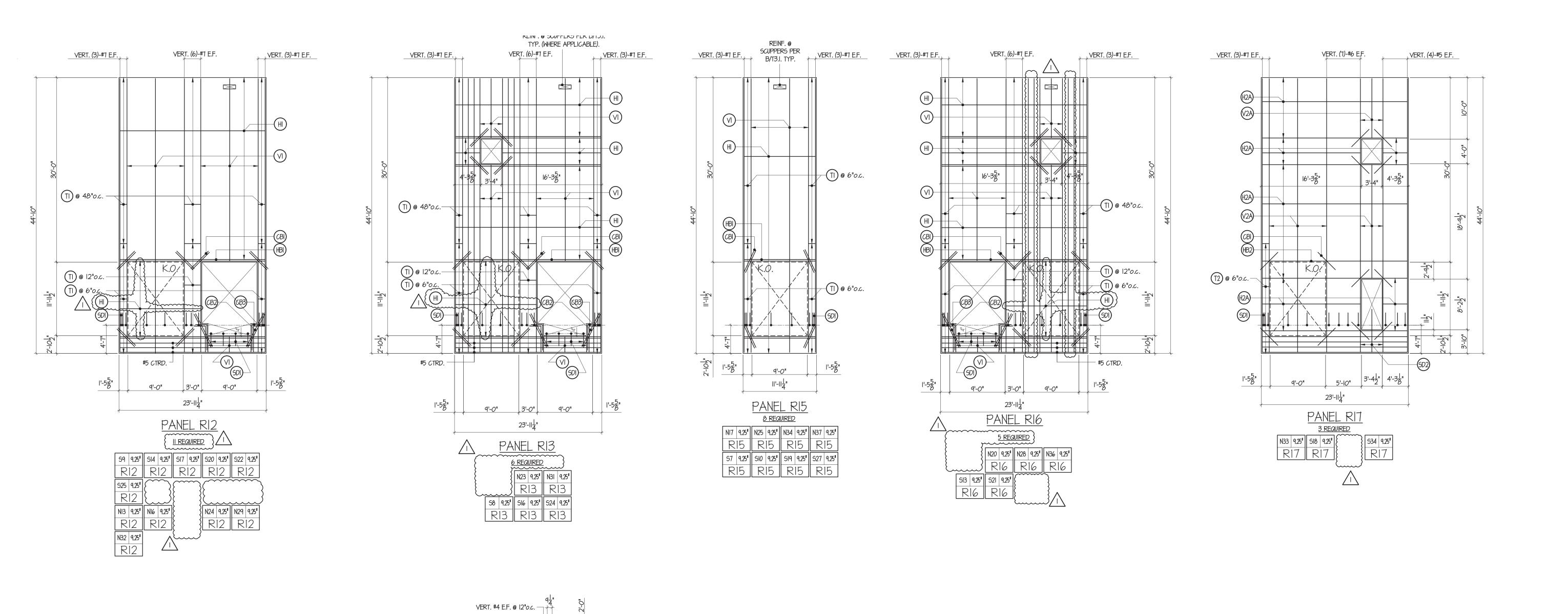
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Knapp Engine

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#4 E.F. WITH 18" HOOK.

SPACE/STAGGER TO MATCH TYP.

PANEL HORIZONTAL REINFORCING

H2A

VERT. (3)-#5 E.F.

| <u>-</u>| (T2) @ 6"o.c.—

VERT. (II)-#5 E.F.

11'-2<mark>3</mark>"

PANEL RI9

<u>I REQUIRED</u>

N40 9.25"

R19

VERT. (20)-#5 E.F.

H2A

(V2A)—

(B)-HB2)-

H2A)—

VERT. (3)-#5 E.F.

—(TI) @ 6"o.c.

(SD2)—

21'-1<mark>3</mark>"

PANEL RI8

N38 9.25"

SECTION B-B

(V2A)-

(H2A)—

(B)— (HB2)—

(H2A)—

REINF. @ SCUPPERS PER

 $\overset{\bullet}{\boxtimes}$

VERT. (17)-#5 E.F.

(V2A)-

PANEL R20

<u>I REQUIRED</u>

N41 9.25" R20

5'-0" 3'-5<u>8</u>

VERT_,. (5)-#5, E.F.

VERŢ. (5)-#5, E.F.

3'-55" 5'-0"

(2A)

23'-11<mark>5</mark>"

PANEL R21

3 REQUIRED

 N43
 9.25*
 53
 9.25*
 543
 9.25*

 R21
 R21
 R21

15'-6"

VERT. (17)-#5 E.F.

- #4 "U" BARS @ 6"o.c. 48"x48" TYP.

NOTE: PLATES

AND "U" BARS ON ON OTHER END OF PANEL ON 'W26'.

#7 @ 12"o.c. E.F.

HB2

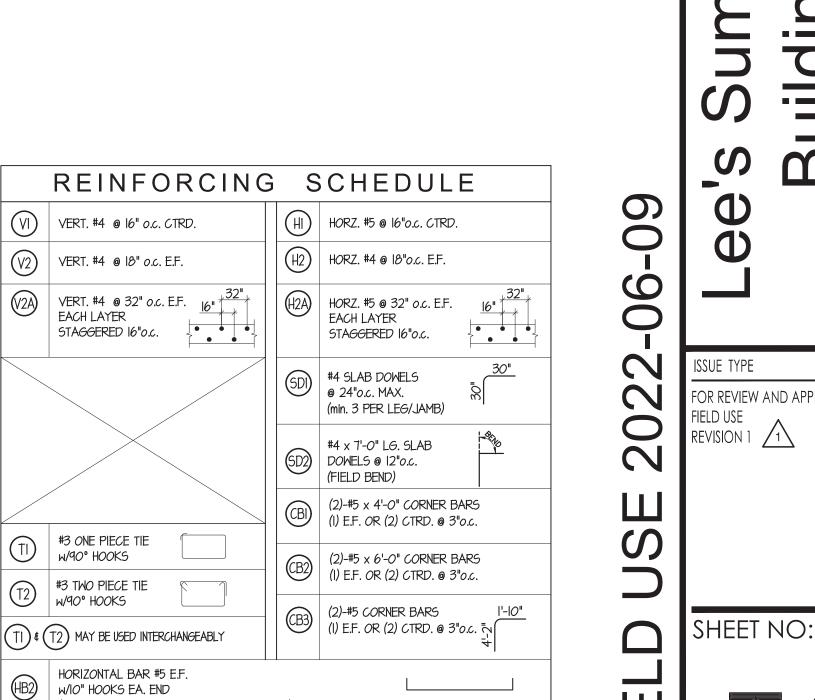
H2A

II'-2"

PANEL R22

2 REQUIRED

EI | 9.25" | W26 | 9.25" | R22 | R22

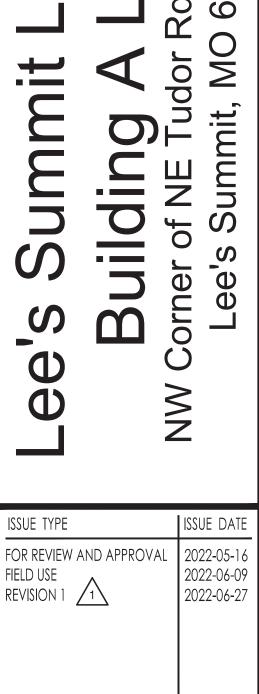


(HOOK NOT REQ'D IF JAMB IS 30" OR MORE)

(HOOK NOT REQ'D IF JAMB IS 30" OR MORE)

HORIZONTAL BAR (2)-#5 CTRD. @ 3"o.c.

W/10" HOOKS EA. END

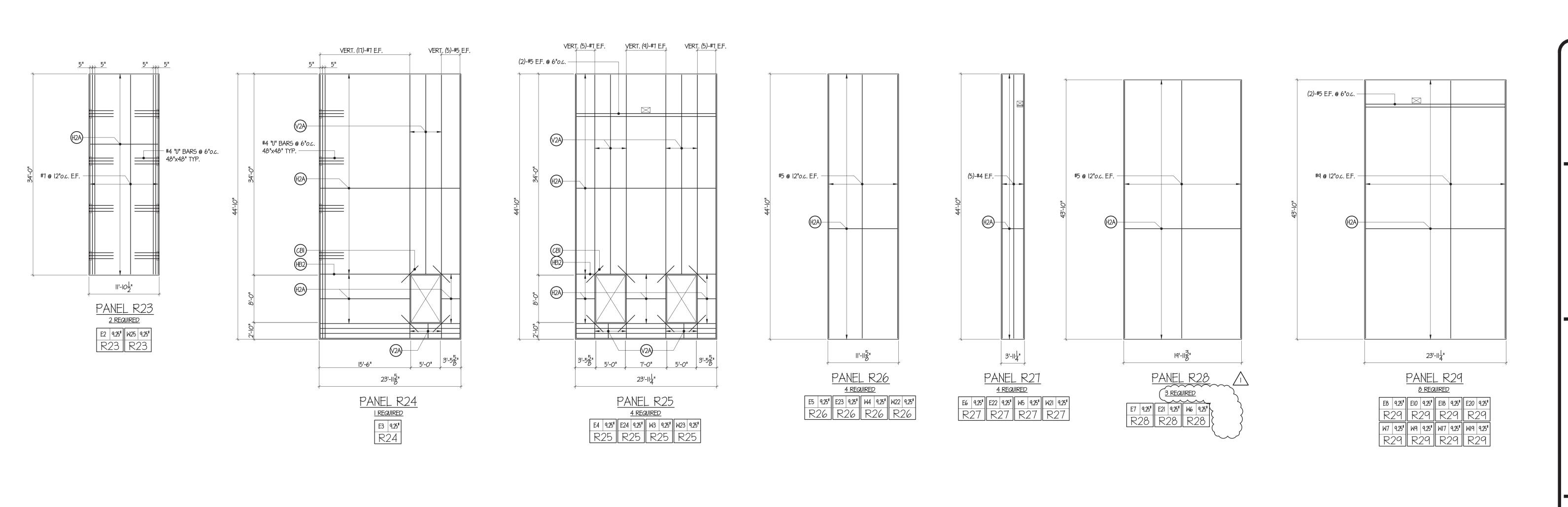


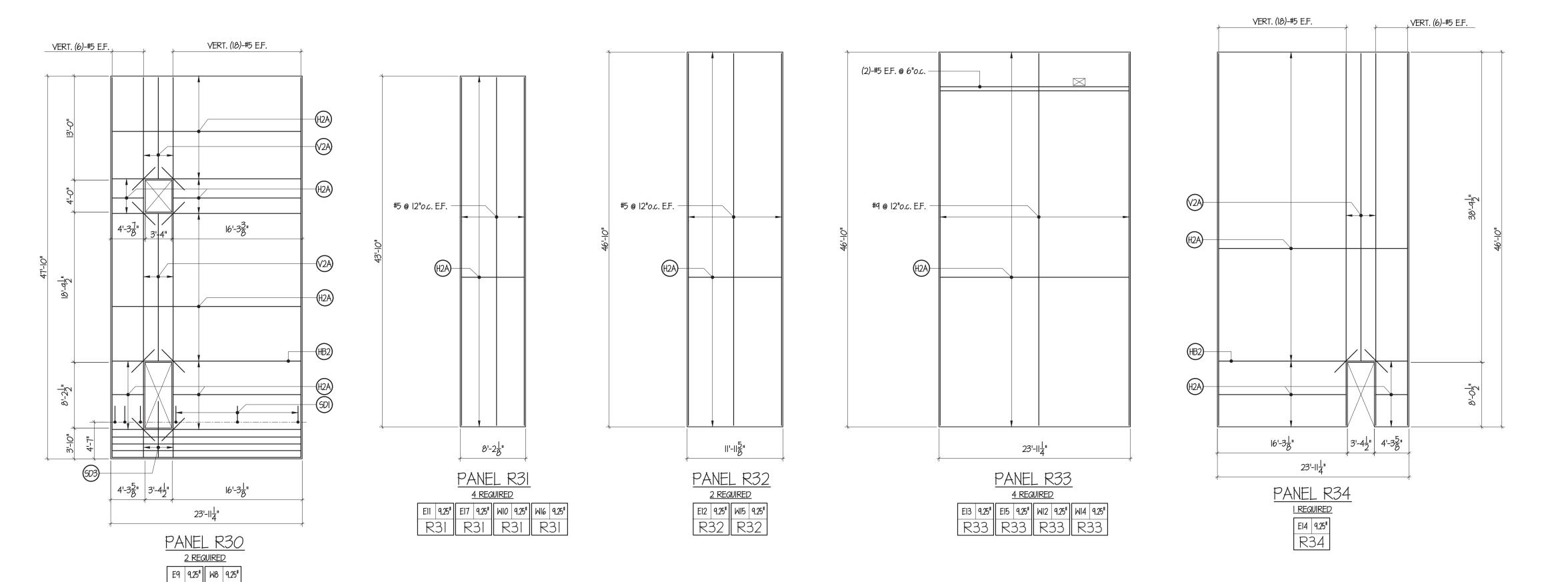
Rd. & M 5 64086 90

Michael D michael@8

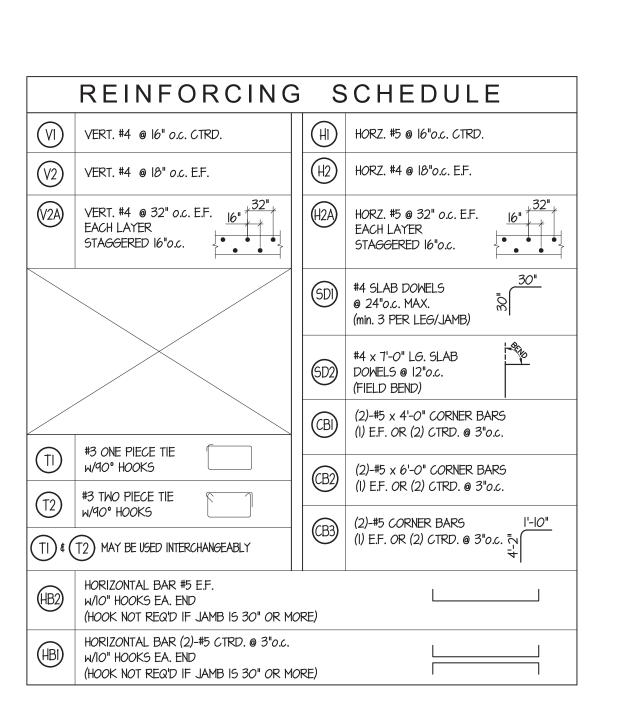
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R30 R30





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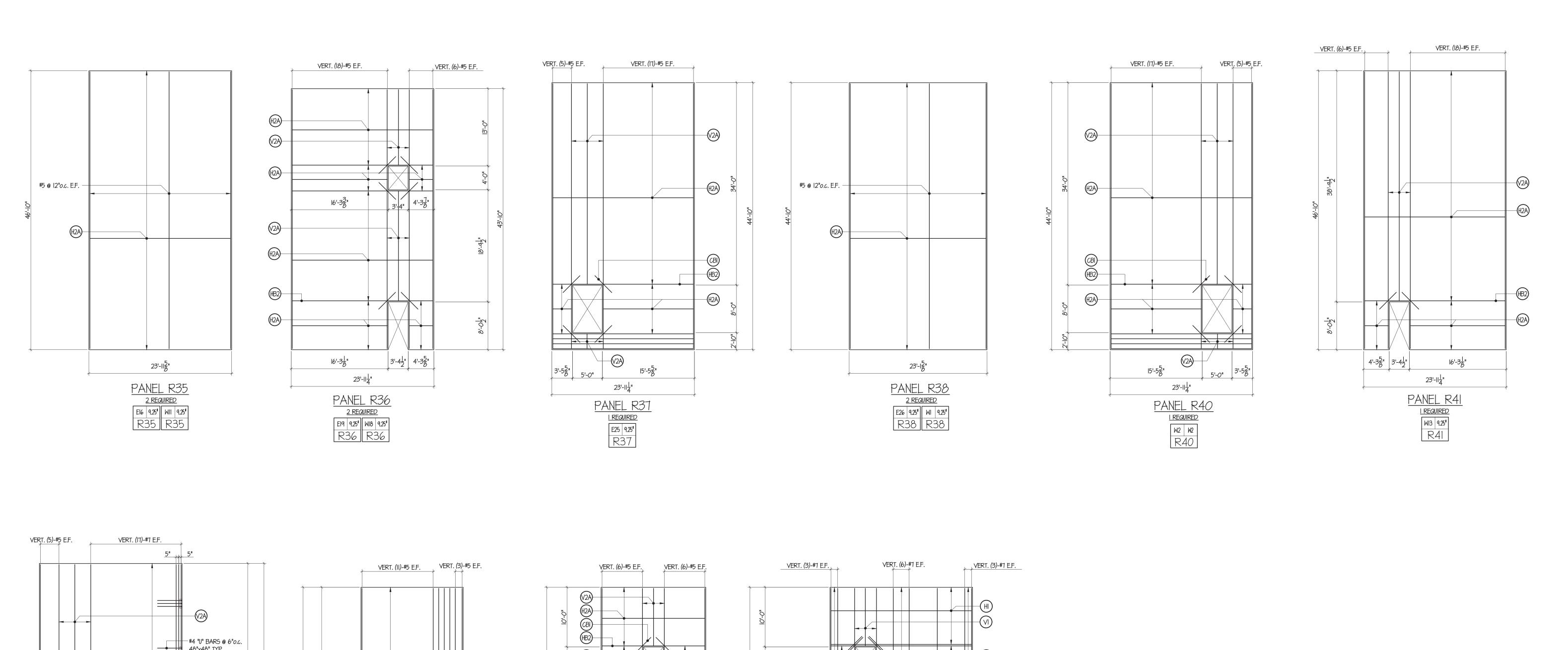
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06



(TI) @ 48"o.c.-

(TI) @ 12"o.c.

23'-11<mark>|</mark>"

PANEL R46

<u>I REQUIRED</u>

\$\begin{align*}
\begin{align*}
\begi

H2A

(V2A)-

(H2A)-

PANEL R45

S5 9.25" R45

─(T2) @ 6"o.c.

—#4 "U" BARS @ 6"o.c. 48"x48" TYP.

H2A

H2A

12'-3<u>|</u>"

PANEL R44

I REQUIRED

54 | 9.25" R44

H2A

(B) (B)

-(H2A)

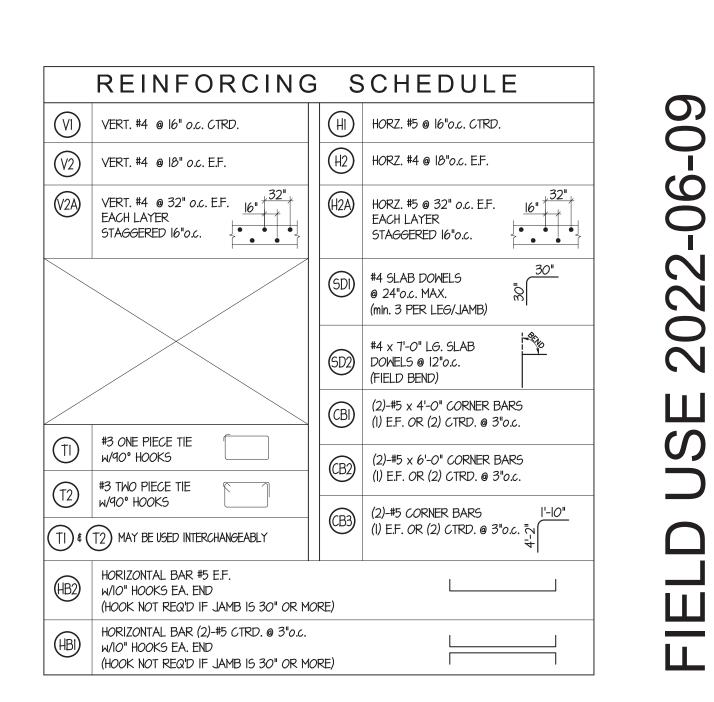
3'-5⁵/₈" 5'-0"

15'-6"

23'-11<mark>5</mark>"

PANEL R42

REQUIRED
W24 9.25"
R42





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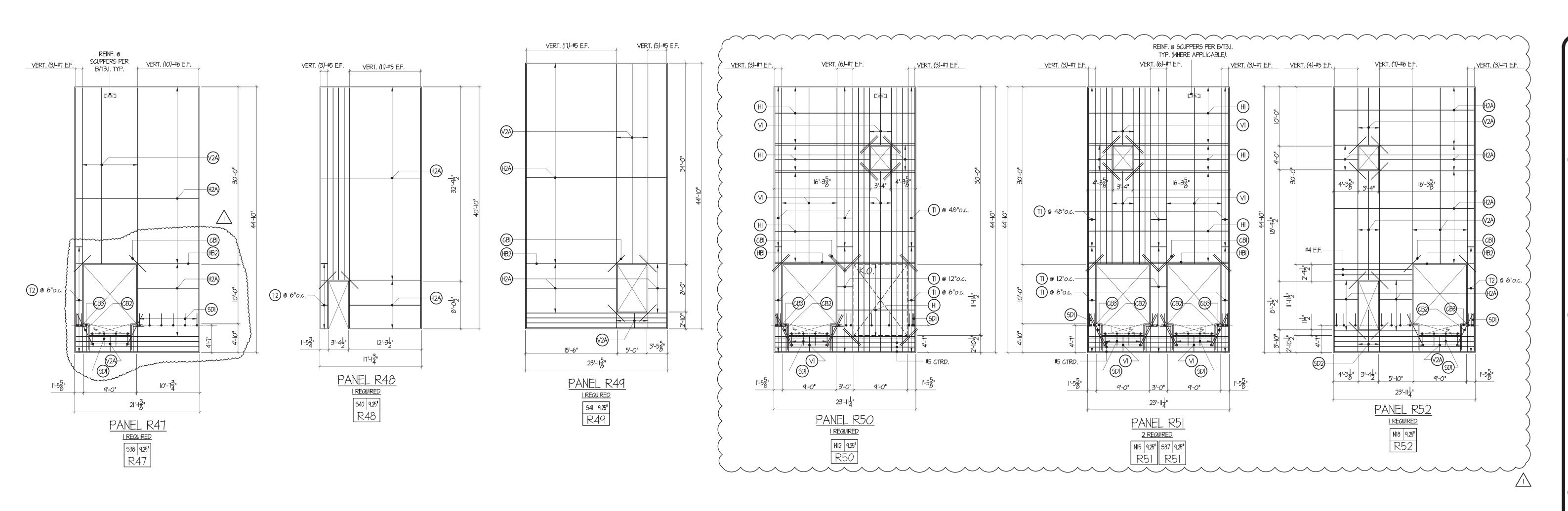
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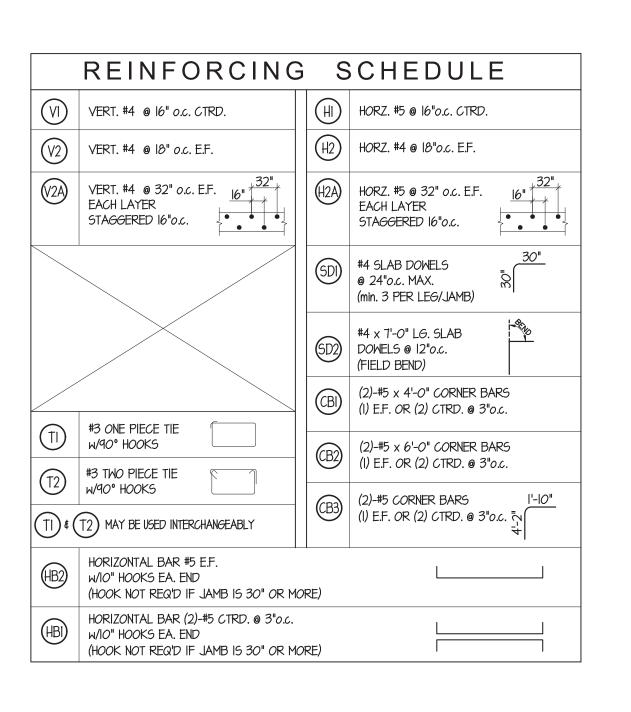
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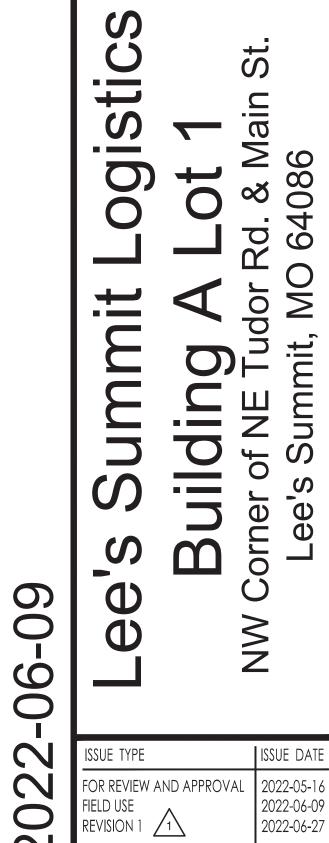
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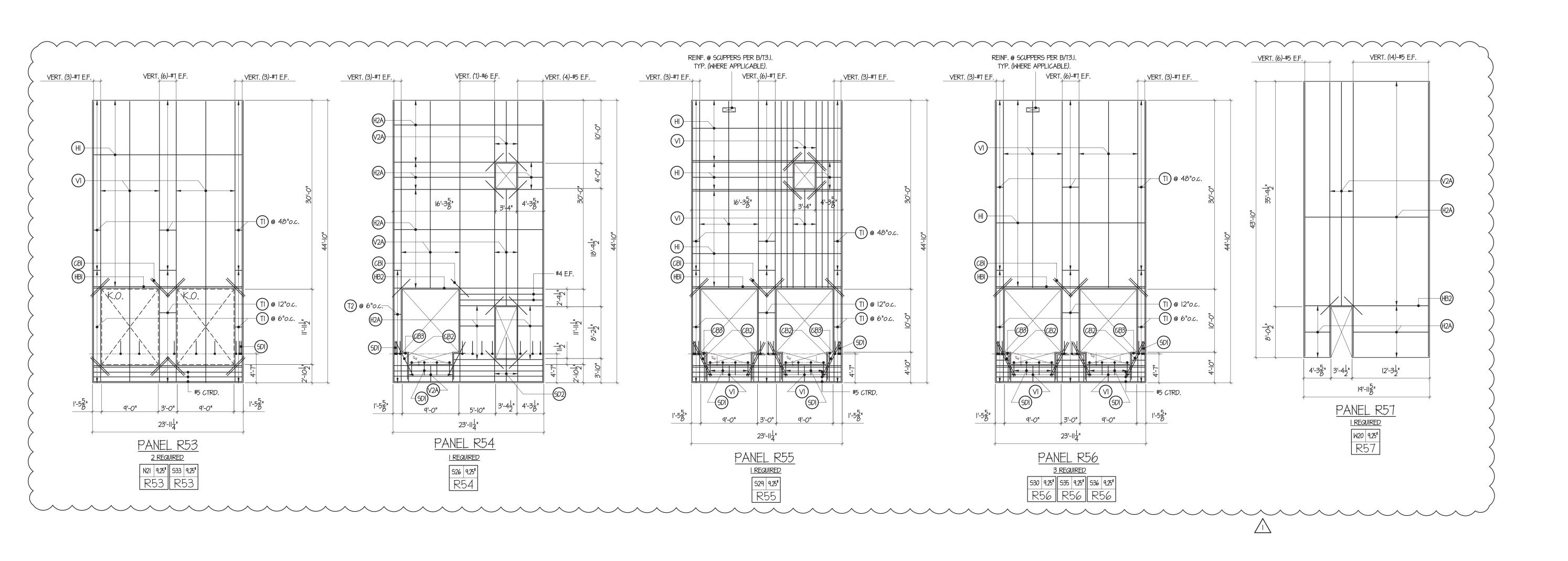
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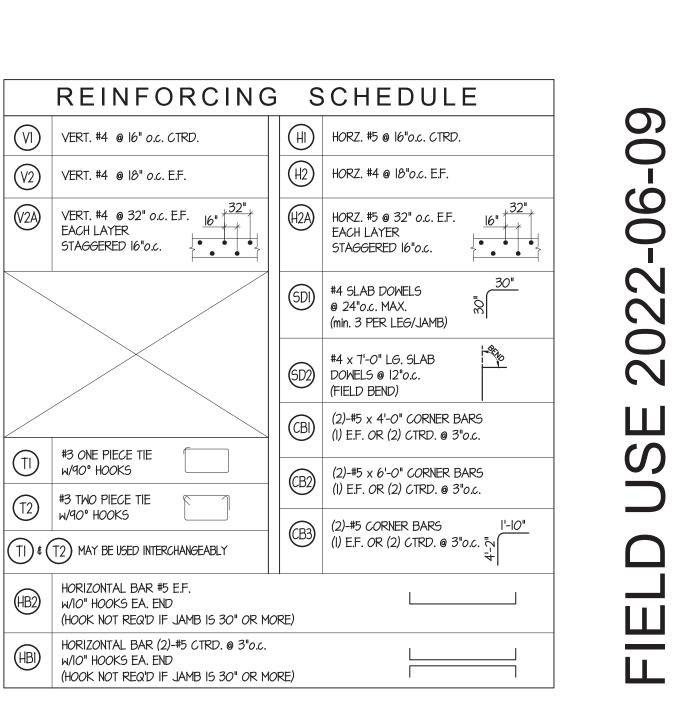
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Knapp Engine

Michael D michael@ 89 Bering

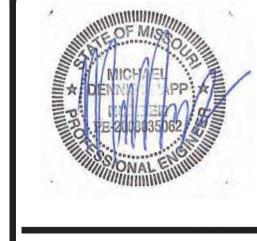




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