

RED DOT CORPORATION

RED DOT SHOP TI - TEST LAB AREA PERMIT

2504 EAST MAIN AVENUE

PUYALLUP, WA 98372

NELSON

Nelco Architecture, Inc.

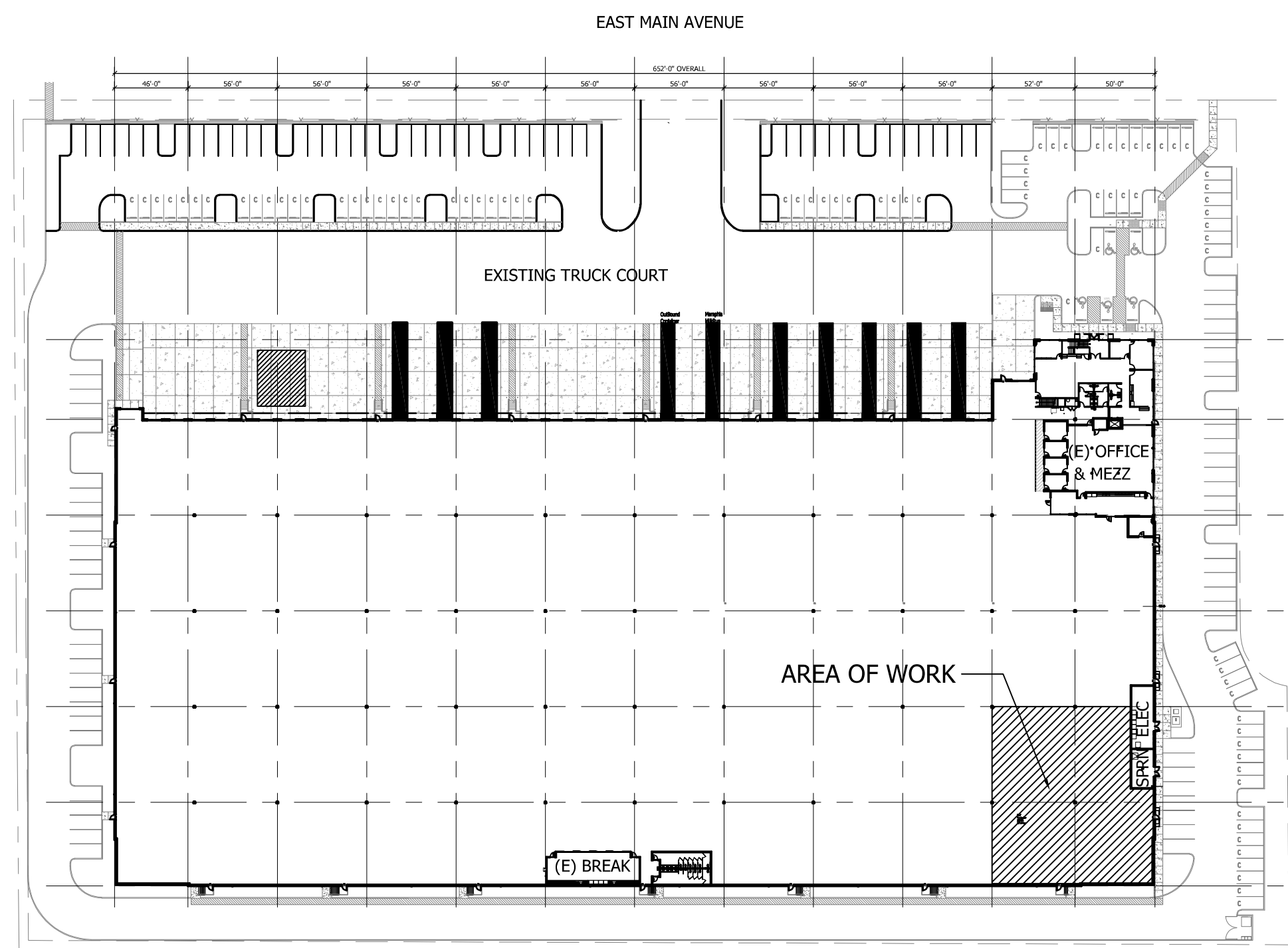
1200 Fifth Ave.
Suite 1300
Seattle, WA 98101
Phone: (206) 408-8500
WWW.NELSONWORLDWIDE.COM

APPROVED BY: Initials _____
Date _____



PROJECT SITE IMAGE FROM PIERCE COUNTY PARCEL VIEWER

2 VICINITY MAP
AN-0 NTS



1 SITE/BUILDING PLAN
AN-0 NTS

DRAWING INDEX				
SHEET NUMBER	SHEET TITLE	SHEET ISSUE DATE	REVISION ISSUE DATE	DRAWING REVISION NUMBER
GENERAL				
AN-0	GENERAL INFORMATION & SITE PLAN	8/23/2024		
AN-1	LIFE SAFETY PLAN	8/23/2024		
AN-2	GENERAL NOTES AND ABBREVIATIONS	8/23/2024		
ARCHITECTURAL				
A2.1	OVERALL SHOP PLAN	8/23/2024		
A2.3	ENLARGED SHOP PLAN - EAST	8/23/2024		
STRUCTURAL				
S1.0	OVERALL FOUNDATION PLAN	8/23/2024		
S2.0	ENVIRONMENTAL CHAMBER STRUCTURAL DETAILS	8/23/2024		
S2.1	ENVIRONMENTAL CHAMBER STRUCTURAL DETAILS	8/23/2024		
S2.2	MEZZANINE PLATFORM STRUCTURAL DETAILS	8/23/2024		
PLUMBING				
P0.0	PLUMBING INDEX, NOTES, SCHEDULES & DIAGRAMS	6/25/2024		
P3.0	PLUMBING SITE PLAN - NON-POTABLE WATER & GAS	6/25/2024		
P3.1	PLUMBING ENLARGED PLAN - NON-POTABLE WATER & GAS	6/25/2024		
P3.2	PLUMBING ENLARGED PLAN - NON-POTABLE WATER & GAS	6/25/2024		

PROJECT DIRECTORY

CLIENT: RED DOT CORPORATION
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PUYALLUP, WA 98372
206.394.3527
EMAIL: TODDTHURNAU@REDDOTCORP.COM

ARCHITECT: NELSON WORLDWIDE
ATTN: MARK EVANS
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SEATTLE, WA 98101
206.408.8519
EMAIL: MEVANS@NELSONWW.COM

STRUCTURAL: AHBL, INC
ATTN: DREW McEACHERN
2215 NORTH 30TH ST, SUITE 300
TACOMA, WA 98403
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EMAIL: DMCEACHERN@AHBL.COM

GENERAL CONTRACTOR: POE CONSTRUCTION
ATTN: CLAY JOHNSON
1519 WEST VALLEY HIGHWAY NORTH, SUITE 103
AUBURN, WA 98001
206.406.3422
EMAIL: APPLUEGER@AHBL.COM

APPLICABLE CODES

2021 INTERNATIONAL BUILDING CODE (IBC)
2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2021 INTERNATIONAL FIRE CODE (IFC)
2021 UNIFORM PLUMBING CODE (UPC)
2021 INTERNATIONAL MECHANICAL CODE (IMC)
2021 INTERNATIONAL FUEL GAS CODE (IFGC)
2020 NATIONAL ELECTRICAL CODE (NEC)
2021 WASHINGTON STATE ENERGY CODE
2021 WASHINGTON STATE AMENDMENTS
2017 ICC/ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

PARKING REQUIREMENTS FOR REFERENCE ONLY

	TOTAL (SF)	RATIO	STALLS REQ'D	ADA STALLS REQ'D	STALLS PROVIDED	ADA STALLS PROVIDED
MANUFACTURE/BREAK	19,340	1/500	39			
OFFICE NEW & EXIST	15,064	1/300	51			
TESTING/PROTOTYPE	14,511	1/1,000	15			
STORAGE/CIRCULATION	151,774	1/3,000	51			
TOTAL	200,689		156	6	190	5

Does the change of use in the proposed area of work from open storage mechanical equipment to a test lab area with office space change the amount of employees for this use as well as square footage of each use?

The provided parking requirements table has not changed since the civil construction permit from 2023 (PRCTI20230447). Please update the table to be accurate with the proposed square footage per use and parking required and provided.

Providing a floor plan that color codes the areas based on use (office (new&existing), testing/prototype, storage/circulation, manufacturing) as well as providing the existing parking count will assist staff in determining if parking requirements are being met. [construction plan set, AN-0]

BUILDING INFORMATION

SITE ADDRESS: 2504 EAST MAIN AVENUE
PUYALLUP, WA 98372

PARCEL NUMBER: 0420264065

LEGAL DESCRIPTION: SECTION 26 TOWNSHIP 20 RANGE 04 QUARTER 31 LOT COMB 2020-09-17-0229 BEG AT NE COR OF ACKERSONS 2ND ADD ON E L OF R. NIX DLC TH N 88 DEG 50 MIN 04 SEC W 800 FT TH N 00 DEG 30 MIN 31 SEC E 532.66 FT TH S 89 DEG 01 MIN 50 SEC E 799.95 FT TH S 00 DEG 30 MIN 22 SEC W 535.4 FT TO POB EASE OF REC COMB OF 04-20-26-3-700 & 4-038 SEG 2021-0156 JP 09/30/20 JP

ZONING: ML LIMITED MANUFACTURING

CONSTRUCTION TYPE: IIIB

FIRE PROTECTION: FULLY SPRINKLERED

BUILDING TOTAL FLOOR AREA: 198,146 SF

OCCUPANCY TYPE: F-1 (MANUFACTURING) / B (OFFICE)

PROPOSED SUITE AREA: 4,297 SF OFFICE (NEW) (B)
4,829 SF MEZZANINE OFFICE (NEW) (B)
3,220 SF OFFICE (EXISTING) (B)
2,718 SF MEZZANINE OFFICE (EXISTING) (B)
185,625 SF MANUFACTURING (F-1) (10,292 SF TEST LAB AREA)
200,689 SF TOTAL

PROJECT DESCRIPTION

INSTALLATION OF PRE-MANUFACTURED VEHICLE ENVIRONMENTAL CHAMBER, RE-LOCATED EXISTING MEZZANINE PLATFORM STRUCTURE, NON-POTABLE WATER AND GAS LINES, SUMP PUMPS AND BOOSTER PUMP.

LIGHTING REQUIREMENTS

EXISTING LIGHTING UNCHANGED FOR THIS PERMIT.

ENERGY REQUIREMENTS FOR REFERENCE ONLY

EXISTING WORK MEETS OR EXCEEDS WA STATE ENERGY REQUIREMENTS PER 2015 WSEC.

SHELL IS A SEMI-HEATED BUILDING AS DEFINED BY THE 2015 WASHINGTON STATE ENERGY CODE. WAREHOUSE SPACE TO BE HEATED BY GAS FIRED UNIT HEATERS WITH A MAXIMUM OUTPUT OF 8 BTU/H/SF; COOLING IS NOT PROVIDED. OFFICE SPACE IS FULLY CONDITIONED.

NEW DEMISING WALL BETWEEN CONDITIONED / SEMI-CONDITIONED SPACES MEETS WSEC PRESCRIPTIVE STANDARD.

ROOF: CALCULATED RIGID INSULATION VALUE: R-35, CONTINUOUS ABOVE DECK.

SLAB INSULATION IS EXCLUDED.

EXISTING BUILDING ENERGY CODE COMPLIANCE FOR REFERENCE ONLY

THE EXISTING BUILDING IS SEMI-HEATED WAREHOUSE DESIGNED AND APPROVED PER THE 2015 WASHINGTON STATE ENERGY CODE. TENANT IMPROVEMENTS INCLUDE FULL CONDITIONING OF OFFICE AREAS AND REMOTE WAREHOUSE BREAKROOM AND RESTROOM AREAS IN COMPLIANCE WITH THE 2018 WASHINGTON STATE ENERGY CODE, COMMERCIAL PROVISIONS, USING THE COMPONENT PERFORMANCE APPROACH. SEE ENVELOPE SUMMARY ON ENERGY CODE COMPLIANCE SHEET AN-4 FOR ADDITIONAL INFORMATION.

HEATING: OFFICE AREAS HEATED BY FORCED AIR HVAC SYSTEM BY DESIGN BUILD CONTRACTOR (DEFERRED SUBMITTAL)

ROOF INSULATION: EXISTING RIGID INSULATION VALUE: R-35, CONTINUOUS ABOVE DECK

WALLS TO 12'-0" AFF: R=21, U=0.090

WALLS TO 12'-0" AFF TO ROOF: R=25, U=0.038

SLAB ON GRADE: NO INSULATION

HM MAN DOORS: U= 0.37 MAX

ROLL-UP DOORS: MIN R= 17.5, U= 0.057

VERTICAL FENESTRATION, FIXED: U= 0.38 MAX, SHGC= 0.40 MAX

STOREFRONT ENTRANCES: U= 0.60 MAX, SHGC= 0.40 MAX

SKYLIGHTS: U= 0.50, SHGC= 0.35

PRCTI20241500

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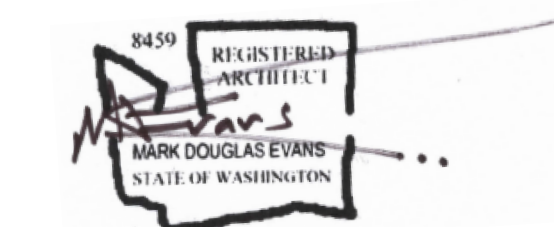
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RED DOT SHOP TI
TEST LAB AREA

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MANUFACTURING PERMIT		04/06/2023
MANUFACTURING RESUBMIT		04/26/2023
TEST LAB AREA PERMIT		08/23/2024

SEAL:



CITY STAMP:

GENERAL INFORMATION
& SITE PLAN

Proj. No: 21.0000440.000 Reviewed By:

AN-0

GENERAL NOTES

- GC TO PROVIDE REQUIRED PORTABLE FIRE EXTINGUISHERS IN OCCUPANCIES AND LOCATIONS AS REQUIRED PER SECTION 906 IN THE INTERNATIONAL FIRE CODE. MOUNTING HEIGHTS TO MEET THE PROVISIONS OF ANSI A117.1 - 308 (48" MAX). CABINET SHALL PROTRUDE NO MORE THAN 4" INTO WALKS, CORRIDORS, PASSAGEWAYS, OR AISLES. LOCATE CABINET(S) 75-FOOT MAXIMUM TRAVEL DISTANCE TO REACH THE EXTINGUISHER, (1) 2A EXTINGUISHER TO COVER MAXIMUM FLOOR AREA OF 3,000 SF. LOCATIONS TO BE REVIEWED WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.
- CENTER LOCATION OF NEW WALL CONSTRUCTION ON EXISTING COLUMNS, PIER, JOISTS OR WINDOW MULLION, AS SHOWN.

EGRESS CODE SUMMARY

- A. MAX. TRAVEL DISTANCE B OCCUPANCY: 300' W/ SPRINKLERS (TABLE 1017.2)
MAX. TRAVEL DISTANCE F-1 AND S-1 OCCUPANCY: 400' (SEC 1017.2.2)
- ONE STORY HEIGHT (YES SEE 4/JA8.1)
 - 24' MIN. CLEAR HEIGHT (32' PROVIDED)
 - FULLY SPRINKLERED
- B. MAX. COMMON PATH OF EGRESS TRAVEL: 100' (TABLE 1006.2.1)
MAX. COMMON PATH OF EGRESS TRAVEL: 75' (>30 OL WITHOUT SPRINKLERS) (TABLE 1006.2.1)

OCCUPANT LOAD:

(IBC 1004.1 TABLE 1004.1.2)

ASSEMBLY (SHOP BREAKROOM) - A-2 (NEW)	1,160 SQ FT / 15 = 78
ASSEMBLY (CONFERENCE, BREAKROOM) - B (NEW)	1,146 SQ FT / 15 = 77
1ST FLOOR OFFICE - B (NEW)	3,551 SQ FT / 150 = 24
MEZZANINE OFFICE - B (NEW)	4,429 SQ FT / 150 = 30
OFFICE - B (EXISTING)	5,938 SQ FT / 150 = 40
MANUFACTURING & TESTING - F-1 (NEW)	32,691 SQ FT / 200 = 164
TEMPORARY STORAGE & CIRCULATION - F-1 (NEW)	151,774 SQ FT / 500 = 304
TOTAL	200,689 SQ FT = 717

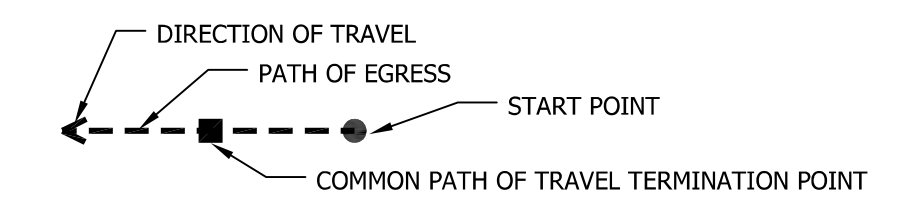
EXIT REQUIREMENTS:

(IBC 1006 TABLE 1006.2.1 & 1006.3.1)

	NUMBER REQ'D	NUMBER PROVIDED
OFFICE	2	2
WAREHOUSE	2	6

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- INTERNALLY ILLUMINATED EXIT SIGNAGE W/ BATTERY BACKUP PER IBC SECTION 1013, CONFIRM OPERATION OF EXISTING. ADD NEW WHERE NOT EXISTING. ARROW = DIRECTION INDICATOR, IF REQUIRED. PROVIDE TACTILE EXIT SIGN ADJACENT TO EACH EXIT DISCHARGE DOOR COMPLYING WITH ICC A117.1, AS SUMMARIZED ON 703/AN-3. ADD NEW WHERE NOT EXISTING.
- NOTE: EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR IS MORE THAN 100' OR THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICHEVER IS LESS.
- EXISTING FIRE DEPARTMENT ACCESS DOOR PROVIDED AT INTERVALS LESS THAN 100' SPACING AROUND PERIMETER OF BUILDING
- SURFACE MOUNTED FIRE EXTINGUISHER



KEY NOTES

- EXISTING ACCESSIBLE ENTRANCE/EXIT
- EXISTING CONDITIONED OFFICE SPACE
- EXISTING TRUCK COURT
- TAPED CIRCULATION/EGRESS AISLE, 6' WIDE UNO.
- TAPED CIRCULATION/EGRESS AISLE, 12' WIDE
- DESIGN/BUILD MODULAR WALL SYSTEM ASSEMBLY UNDER SEPARATE PERMIT
- POWDER COAT PAINT BOOTH AND CONVEYER ASSEMBLY UNDER SEPARATE PERMIT
- GASKET SHELVING, MAXIMUM 5' HIGH UNDER SEPARATE PERMIT
- CHAIN LINK FENCING
- ENVIRONMENTAL CHAMBER ON NEW FOUNDATION AND SLAB. SEE AHB1 STRUCTURAL CALCULATIONS REPORT AND STRUCTURAL DRAWING SHEETS S1.0, S2.0 AND S2.1 FOR LOCATION, SLAB AND ANCHORAGE DETAILS.
- NEW CRANE FOUNDATIONS (6) UNDER SEPARATE PERMIT
- NEW SLAB SAW CUT ISOLATION JOINTS UNDER SEPARATE PERMIT
- RACKING UNDER SEPARATE PERMIT
- RE-USED STEEL MEZZANINE PLATFORM STRUCTURE. SEE AHB1 STRUCTURAL CALCULATIONS REPORT AND STRUCTURAL DRAWING SHEET S2.2 FOR MEMBER SIZES AND EXISTING PHOTO.

PRCTI20241500

CLIENT:



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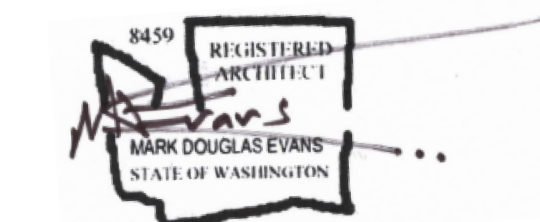
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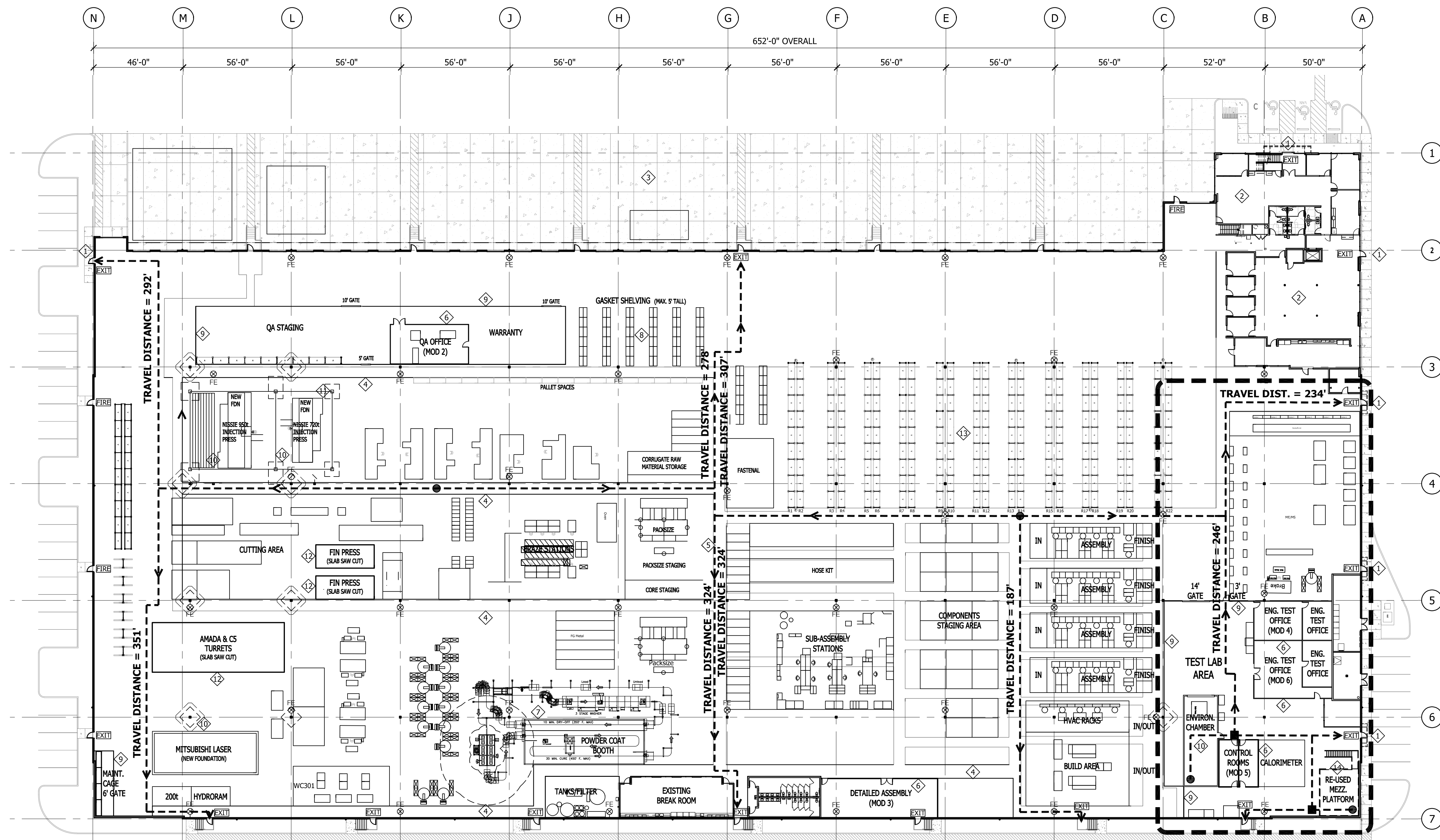


CITY STAMP:

LIFE SAFETY PLAN

Proj. No: 21.0000440.000 Reviewed By:

AN-1



1 LIFE SAFETY PLAN
AN-1 1" = 30'-0"

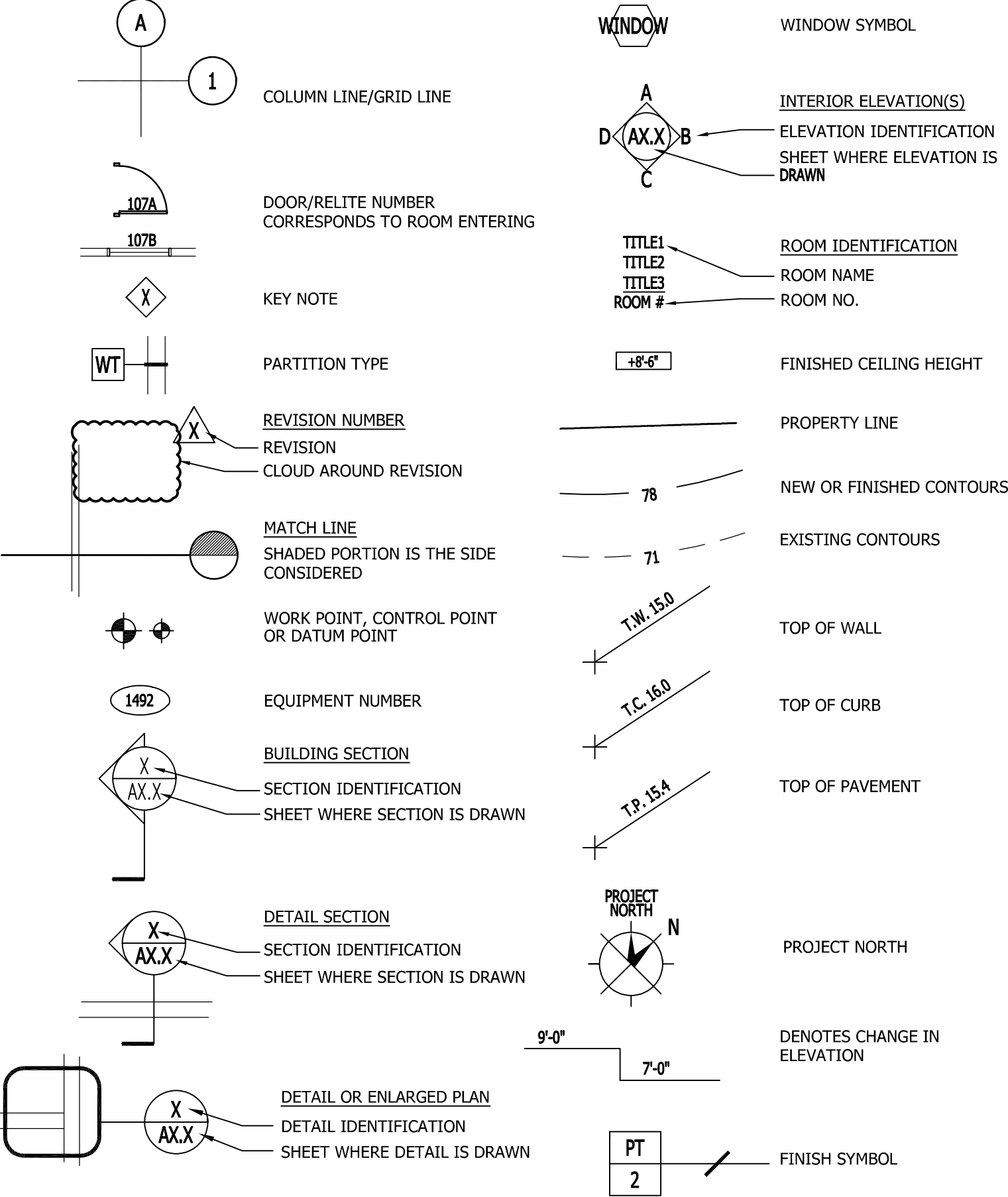
GENERAL NOTES

THE WORK SHALL CONFORM TO THE APPLICABLE BUILDING CODE AND OTHER ORDINANCES, CODES AND REGULATIONS LISTED IN THE SPECIFICATIONS OR ON THE DRAWINGS...

SEPARATE PERMITS, WHEN REQUIRED AND/OR WHEN WORK ITEMS ARE DESIGNATED IN NATURE, SHALL BE OBTAINED BY THE CONTRACTOR FOR MECHANICAL, PLUMBING, FIRE SPRINKLERS, ELECTRICAL AND FIRE ALARM...

UPON SUBSTANTIAL COMPLETION OF WORK THE CONTRACTOR SHALL PREPARE A "PUNCHLIST" OF CORRECTIONS AND UNSATISFACTORY AND/OR INCOMPLETE WORK FOR REVIEW BY THE ARCHITECT.

SYMBOLS

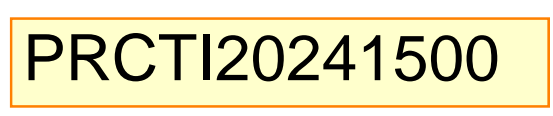


ABBREVIATIONS

Table of abbreviations for construction terms, including ANGLE, CENTER LINE, DIAMETER OR ROUND, NUMBER OR POUND, PENNY, PERPENDICULAR, PLATE, ANCHOR BOLT, AC, AC, AC, AC, AC, ADH, ADJ, AFF, AFF, ALT, ALT, ARC, APPROX, ARCH, ASPH, BD, BETW, BLDG, BLDG, BRG, BOT, BSM, BUR, CAB, CB, CB, CEM, CER, CFM, CFT, CFT, CHBD, CI, CJT, CLF, CLG, C, CLK, CLO, CLR, CNR, CO, COL, CONC, CONSTR, CON, CORR, CPT, CT, CTR, CY, DBL, DEPT, DF, DW, DIAG, DIM, DISP, DN, DN, DTL, DWR, DS, DW, DWG, E, EA, EB, EJ, ELEC, ELEV, EM, EMER, ENCL, EP, EWC, EPX, EQ, EQUIP, EST, EX, EXIST, EXT, FA, FBO, FCIC, FCTY, FD, FDN, FE, FEC, FF, FIN, FL, FLG, FLUOR, FM, FOC, FOF, FOIC, FOIO, FOS, FS, FT, FTG, FTIC, FTIO, FURR, FUT, FUTURE-RIO, GA, GALV, GB, GC, GCS, GLB, GND, GR, GWB, HB, HC, HDR, HDWD, HDWE, HM, HORIZ, HR, HT, HTG, HVAC, HWH, IBC, ID, IEC, IFC, IGM, INCH, INCL, INSUL, INT, IPC, JAN, JT, LAM, LAV, LB, LF, LG, LH, LINO, LKR, LT, MACH, MATL, MAX, MECH, MEZZ, MFR, MH, MIN, MIR, MISC, MLD, MRGWB, MTD, METAL, MULL, N, NIC, NO#, NOM, NMS, OA, OC, OD, OFF, OH, OPH, OPNG, OPP, PERP, PFN, PL, PLAM, PLYWD, PNL, PNT, PR, PS, PSF, PSI, PT, PTD, PTD/R, PTN, PTR, PVMT, QT, R, RA, RAD, RBS, RB, RCP, RD, RDJO, REBAR, REF, REFR, REIN, REIN, REIN, REV, RH, RESIL, RM, RO, ROOF, RUB, RW, RWL, S, SC, SCD, SCHED, SD, SOAP, SECT, SECT, SHG, SIM, SLR, SSK, SNO, SNR, SPEC, SQ, SST, SSK, ST, STA, STD, STL, STOR, STRL, SUSP, SV, SYM, T, TB, TB&T, TG, THIX, TIG, TO, TOC, TOP, TOP, TOS, TOSL, TOW, TPD, TPTN, TS, TV, TYP, UL, UNF, UNON, UR, VAR, VCT, VERT, VEST, VIN, VWC, W, W/, W/O, WOOD, WF, WG, WHSE, WP, WR, WSCT, WT, XFMR, YD



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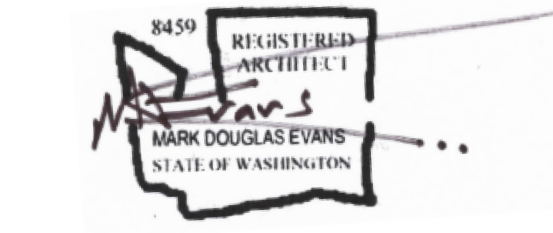
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RED DOT SHOP TEST LAB AREA

2504 EAST MAIN AVENUE PUYALLUP, WA 98372

Table with columns: Description, No, Date. Rows include PERMIT SUBMITTAL, PERMIT RESUBMITTAL, PERMIT RESUBMITTAL 2, MANUFACTURING PERMIT, MANUFACTURING RESUBMIT, TEST LAB AREA PERMIT.

SEAL:



CITY STAMP:

GENERAL NOTES & ABBREVIATIONS

Proj. No: 21.0000440.000 Reviewed By:

SHOP PLAN NOTES

THE RED DOT SHOP LAYOUT PLAN INCLUDES THE FOLLOWING CATEGORIES OF USE:

- MANUFACTURING:**
MACHINES AND PROCESSES TO PRODUCE MANUFACTURED PARTS. AREAS INDICATED IN GRAY INCLUDE EQUIPMENT/MACHINE AND OPERATORS TO COMPLETE THE WORK (MANUFACTURING).
- GENERAL CIRCULATION:**
AREA FOR FORKLIFT TRAFFIC, EMPLOYEE WALKWAYS, MOVEMENT OF COMPONENTS FROM ONE WORK CENTER TO THE NEXT (GENERAL CIRCULATION).
- WAREHOUSE STORAGE:**
STORAGE AND RACKING OF FINISHED COMPONENTS (RACKING/STORAGE WAREHOUSE).
- TESTING AND PROTOTYPING:**
TESTING AND PROTOTYPING OF FUTURE MANUFACTURED COMPONENTS. THE TESTING AREA IS WHERE PROTOTYPES WILL BE TESTED TO VERIFY NEW PARTS MEET THE REQUIREMENTS OF CUSTOMERS BEFORE UNITS GO INTO PRODUCTION. THIS IS A COMBINATION OF BENCH TOP TESTING AND COMPLETE VEHICLE TESTING. FOR VEHICLE TESTING, CUSTOMERS SEND A VEHICLE FOR FITTING AND INSTALLATION OF PROTOTYPE UNITS IN THEM TO TEST IN REAL WORK CONDITIONS (TESTING AND PROTOTYPING).

SHOP PLAN KEY NOTES

- EXISTING ACCESSIBLE ENTRANCE/EXIT
- EXISTING CONDITIONED OFFICE SPACE
- EXISTING TRUCK COURT
- TAPED CIRCULATION/EGRESS AISLE, 6' WIDE UNO.
- TAPED CIRCULATION/EGRESS AISLE, 12' WIDE
- MODULAR WALL SYSTEM UNDER SEPARATE PERMIT
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- GASKET SHELVING, MAXIMUM 5' HIGH FOR GROUP A PLASTICS PER FIRE SPRINKLER REPORT
- CHAIN LINK FENCING UNDER SEPARATE PERMIT
- ENVIRONMENTAL CHAMBER ON NEW FOUNDATION AND SLAB. SEE AHB1 STRUCTURAL CALCULATIONS REPORT AND STRUCTURAL DRAWING SHEETS S1.0, S2.0 AND S2.1 FOR LOCATION, SLAB AND ANCHORAGE DETAILS.
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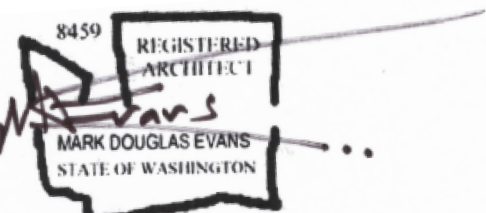
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**RED DOT SHOP T1
TEST LAB AREA**

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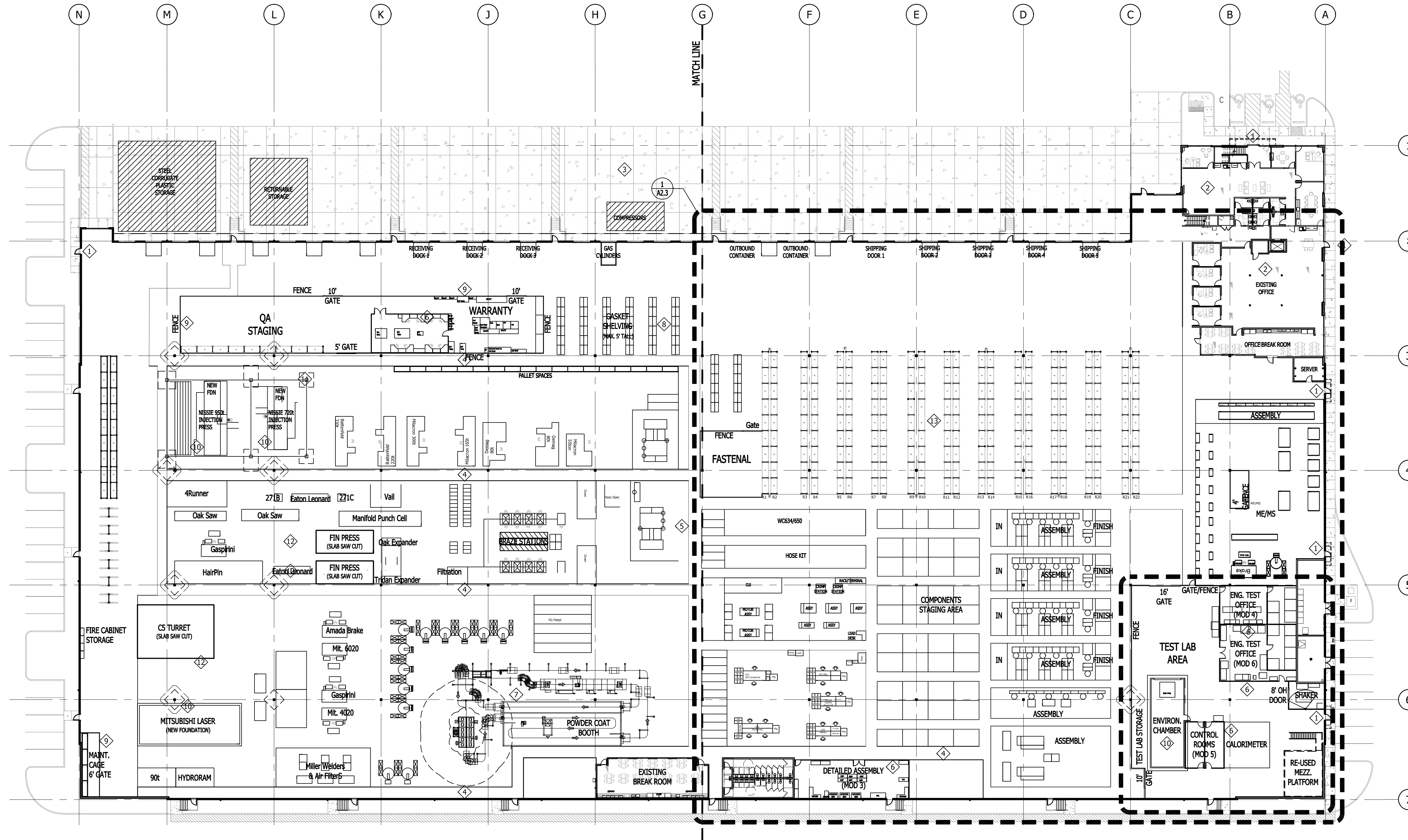


CITY STAMP:

OVERALL SHOP PLAN

Proj. No: 21.0000440.000 Reviewed By:

A2.1



1 OVERALL SHOP PLAN
A2.1 1"=30'-0"



SHOP PLAN NOTES

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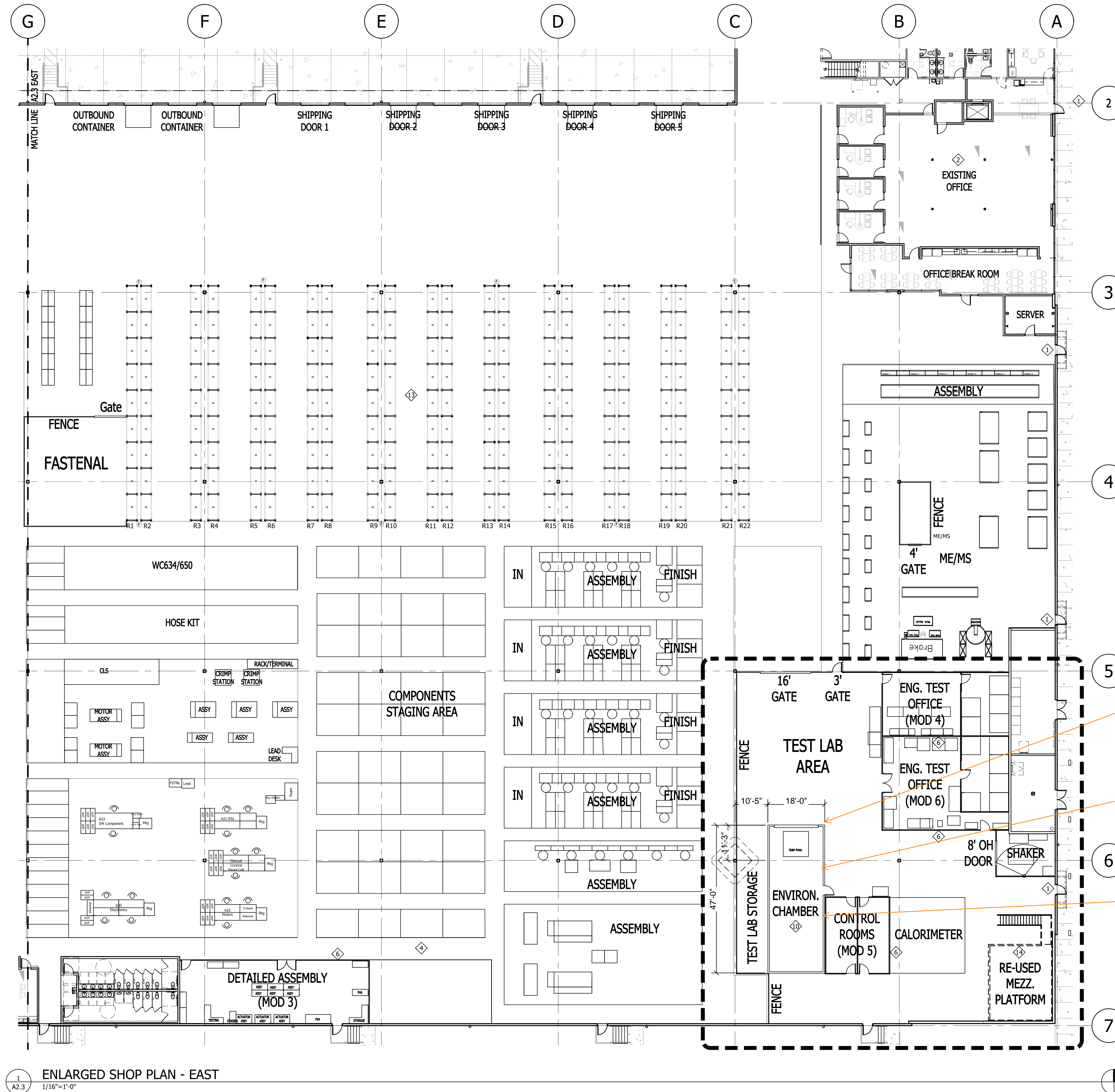
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2504 EAST MAIN AVENUE
PUYALLUP, WA 98372

Description:	No:	Date:
PERMIT SUBMITTAL		12/22/2022
PERMIT RESUBMITTAL		02/03/2023
PERMIT RESUBMITTAL 2		02/17/2023
MANUFACTURING PERMIT		04/06/2023
MANUFACTURING RESUBMIT		04/26/2023
TEST LAB AREA PERMIT		08/23/2024

TEST LAB AREA PERMIT 08/23/2024



The calculations provided indicate that the shear value for the #8 screws is based on plywood. Please provide the specifications for the Environmental Chamber, including details about the wall construction.
(Construction Set, Sheet A2.3)

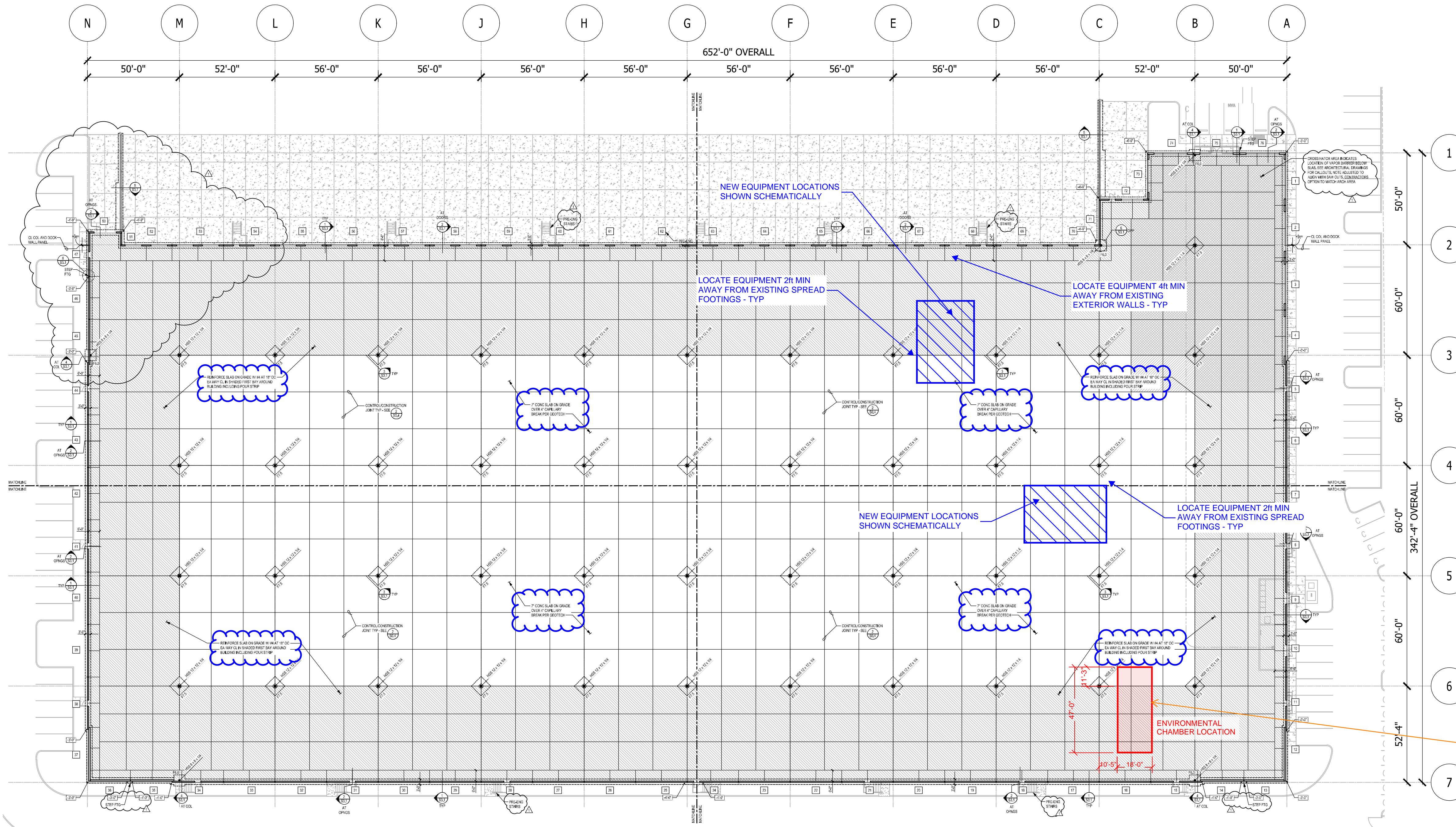
The details on Sheet S2.1 and within the engineering calculations indicate pillars for vibration stabilization, which appear to function as a lift and/or create isolated loads. Please verify what has been installed on-site.
(Construction Set, Sheet A2.3)

No mechanical plans have been provided. According to the details on Sheet S2.1 and the calculations, there are mechanical components associated with the Environmental Chamber. Please provide the mechanical engineering specifications for what has been installed on-site, including the Calorimeter if it is part of the mechanical installation or provide an as-built inspection report that indicates the equipment installed and that they meet current code standards.
(Construction Set, Sheet A2.3)

1 ENLARGED SHOP PLAN - EAST
A2.3 1/16"=1'-0"

ENLARGED SHOP PLAN - EAST

Proj. No: 21.0000440.000 Reviewed By:



FOUNDATION NOTES:

- SEE SHEET S0.1 AND S0.2 FOR GENERAL NOTES. SEE SHEET S0.4 FOR TYPICAL DETAILS. SEE SHEET S0.3 FOR TESTING AND INSPECTION NOTES.
- SEE GEOTECHNICAL ENGINEERING REPORT FOR ALL FOUNDATION AND SLAB SUPPORT REQUIREMENTS. THIS INCLUDES ALL EXCAVATION, FILL AND FILL PLACEMENT REQUIREMENTS.
- SEE ARCHITECTURAL/MECHANICAL DRAWINGS FOR DRAINS, SLOPES, AND OTHER FLOOR DEPRESSIONS NOT SHOWN.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ELEVATIONS, AND WALLS NOT SHOWN.
- VERIFY ALL WINDOW AND DOOR WIDTH AND HEIGHTS WITH ARCHITECTURAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR STUD SIZE, SPACING, AND CALLOUTS AT NON-STRUCTURAL WALLS.
- FOR TYPICAL CONNECTION OF NON-LOAD BEARING WALLS TO SLAB, USE POWER ACTUATED FASTENERS AT 16" O.C.
- PANEL DIMENSIONS SHOWN ARE TO CENTERLINE OF PANEL JOINT. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL PANEL DIMENSIONS.
- ELEVATIONS OF PANELS ARE SHOWN STARTING ON SHEET S5.1 THROUGH S5.6.
- UNLESS NOTED OTHERWISE, TILT-UP PANEL ELEVATIONS SHOW PANELS VIEWED FROM INSIDE OF BUILDING LOOKING TOWARDS BUILDING EXTERIOR.
- POUR STRIP CONTROL JOINTS, LOCATE AT PANEL JOINTS AND MIDWAY BETWEEN AT TURNS IN POUR STRIP ADD JOINTS FROM MAIN SLAB TO OUTSIDE WALL.
- SEE 1/S3.2 FOR TRASH ENCLOSURE. SEE ARCHITECTURAL SITE PLAN FOR LOCATION.

LEGEND:

- # TILT-UP CONCRETE WALL. FOR REINFORCING REQUIREMENTS AND JOINT LOCATIONS, SEE TILT-UP CONCRETE PANEL ELEVATIONS ON SHEETS S5.1 THRU S5.6.
- PANEL JOINT BETWEEN TILT-UP CONCRETE WALL PANELS.

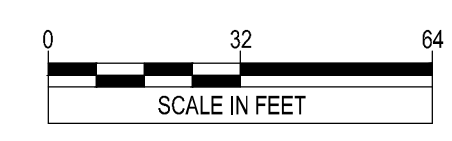
There are two details provided on Sheet 2.0 that reflect a thickened footings around the Environmental chamber. Clarify and identify these details on the plans and verify that this has been installed in the location of the chamber.
(Construction Set, Sheet A2.3)

OVERALL FOUNDATION PLAN

NTS

FOOTING SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
F6.0	6'-0" x 6'-0" x 1'-2"	(7) #5 EACH WAY AT BOTTOM OF FOOTING	
F7.5	7'-6" x 7'-6" x 1'-4"	(7) #6 EACH WAY AT BOTTOM OF FOOTING	

- FOOTINGS SCHEDULE NOTES:**
- TOP OF FOOTING ELEVATION = -1'-0" UNLESS NOTED OTHERWISE ON PLAN.
 - FOOTING DESIGN BASED ON 2500 PSF ALLOWABLE SOIL BEARING PRESSURE.
 - EQUALLY SPACE REINFORCING IN EACH DIRECTION.
 - PROVIDE 3" CLEAR TO REINFORCING AT BOTTOM OF FOOTING.



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RED DOT SHOP TI
TEST LAB AREA

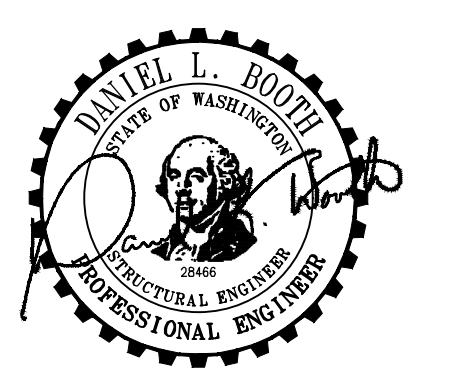
2504 EAST MAIN AVENUE
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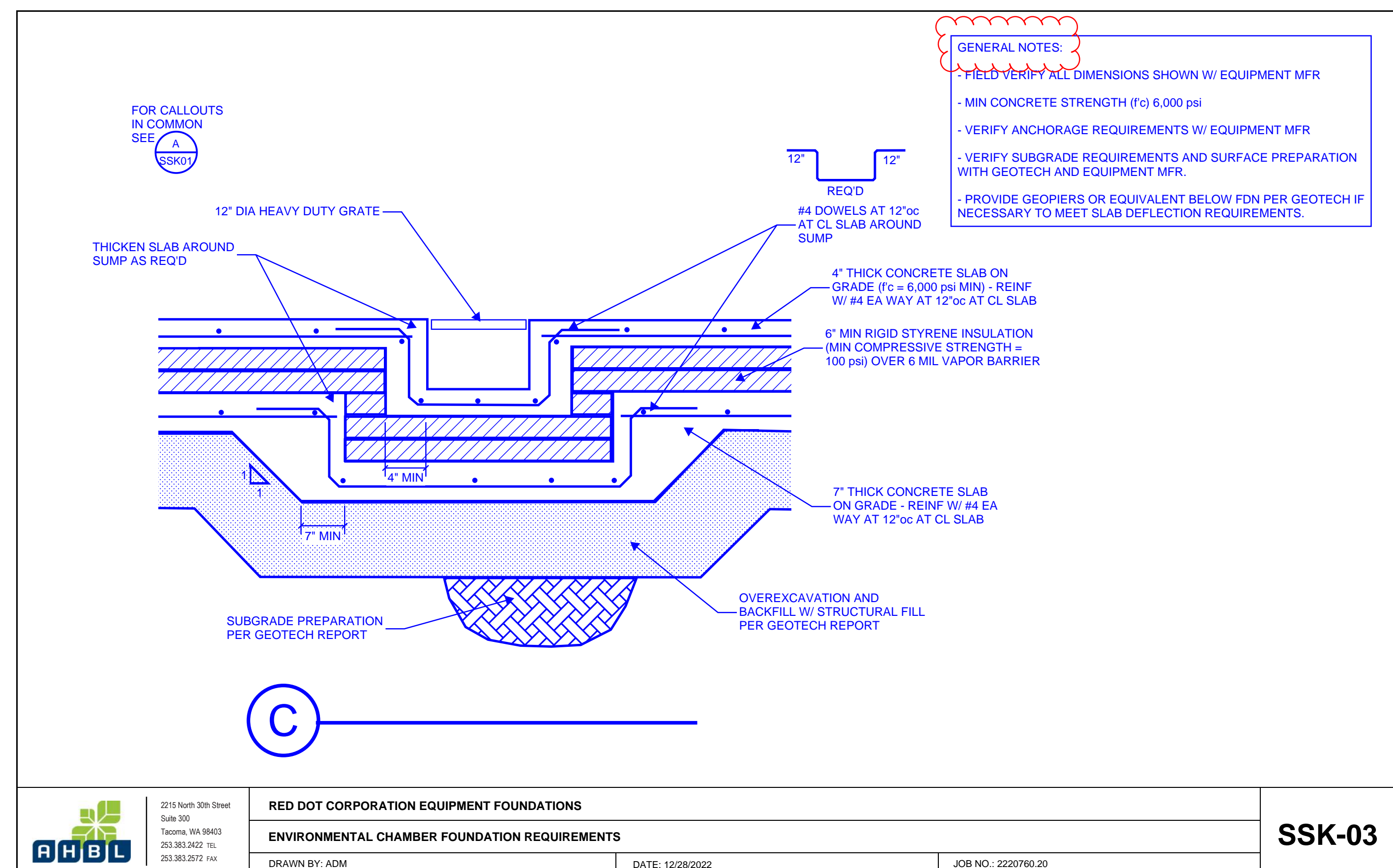
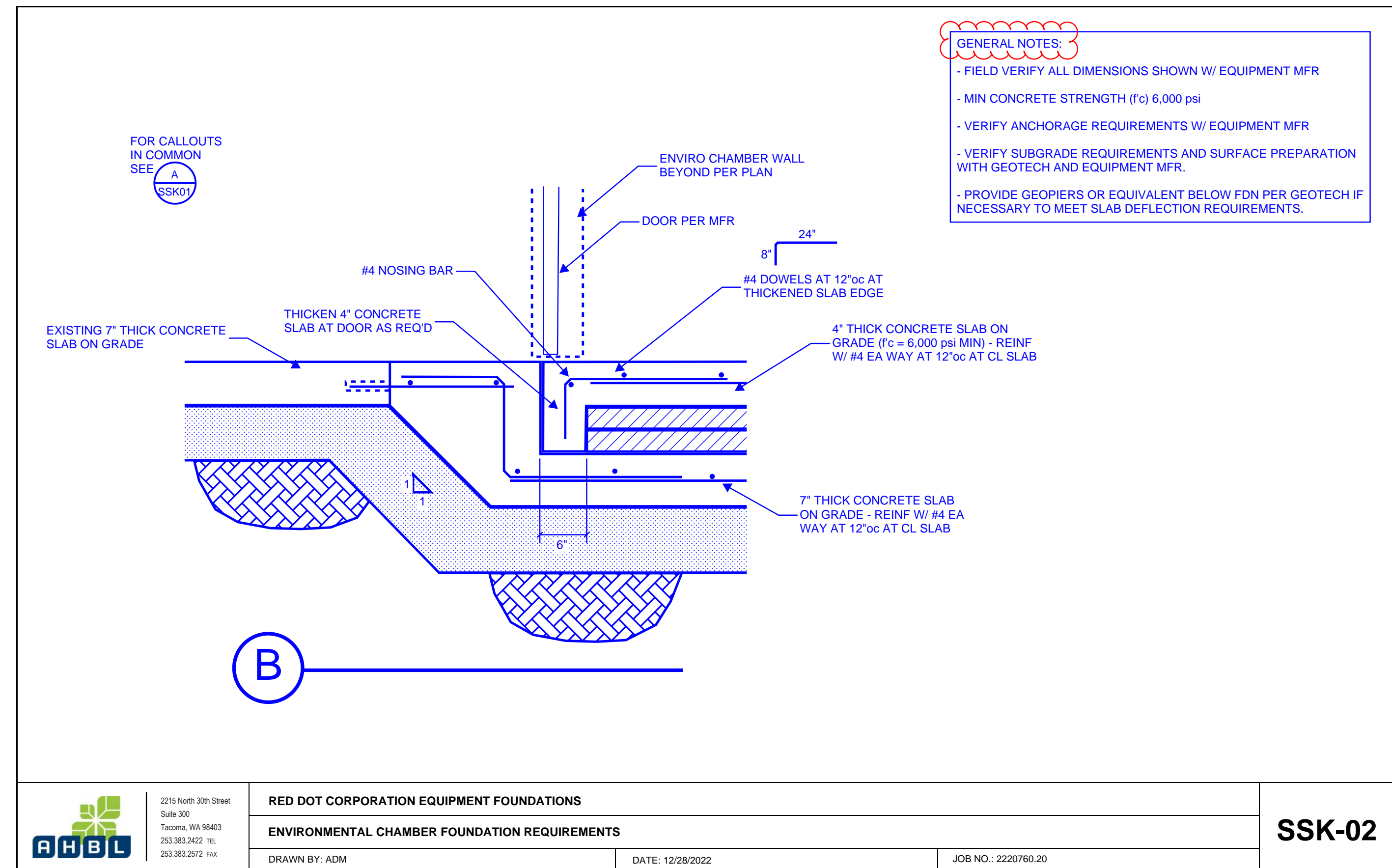
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OVERALL FOUNDATION PLAN

Proj. No: 21.0000440.000 Reviewed By:



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CLIENT:



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495 ANDOVER PARK EAST
TUKWILA, WA 98188

PROJECT:

RED DOT SHOP TI
TEST LAB AREA

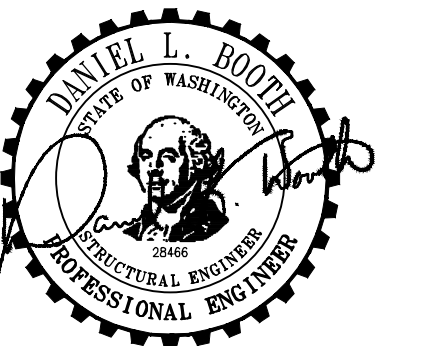
2504 EAST MAIN AVENUE
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SEAL:



CITY STAMP:

ENVIRONMENTAL CHAMBER STRUCTURAL DETAILS

Proj. No: 21.0000440.000 Reviewed By:

PRCTI20241500

CLIENT:



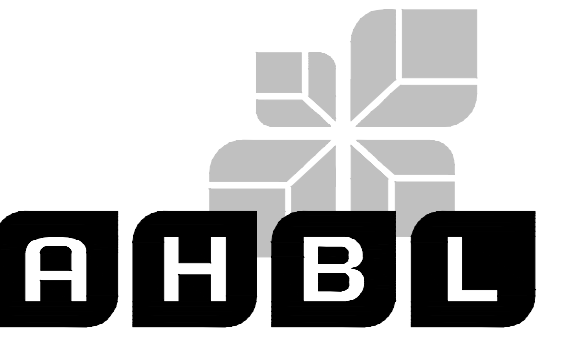
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TUKWILA, WA 98188

PROJECT:

RED DOT SHOP TI
TEST LAB AREA

2504 EAST MAIN AVENUE
PUYALLUP, WA 98372

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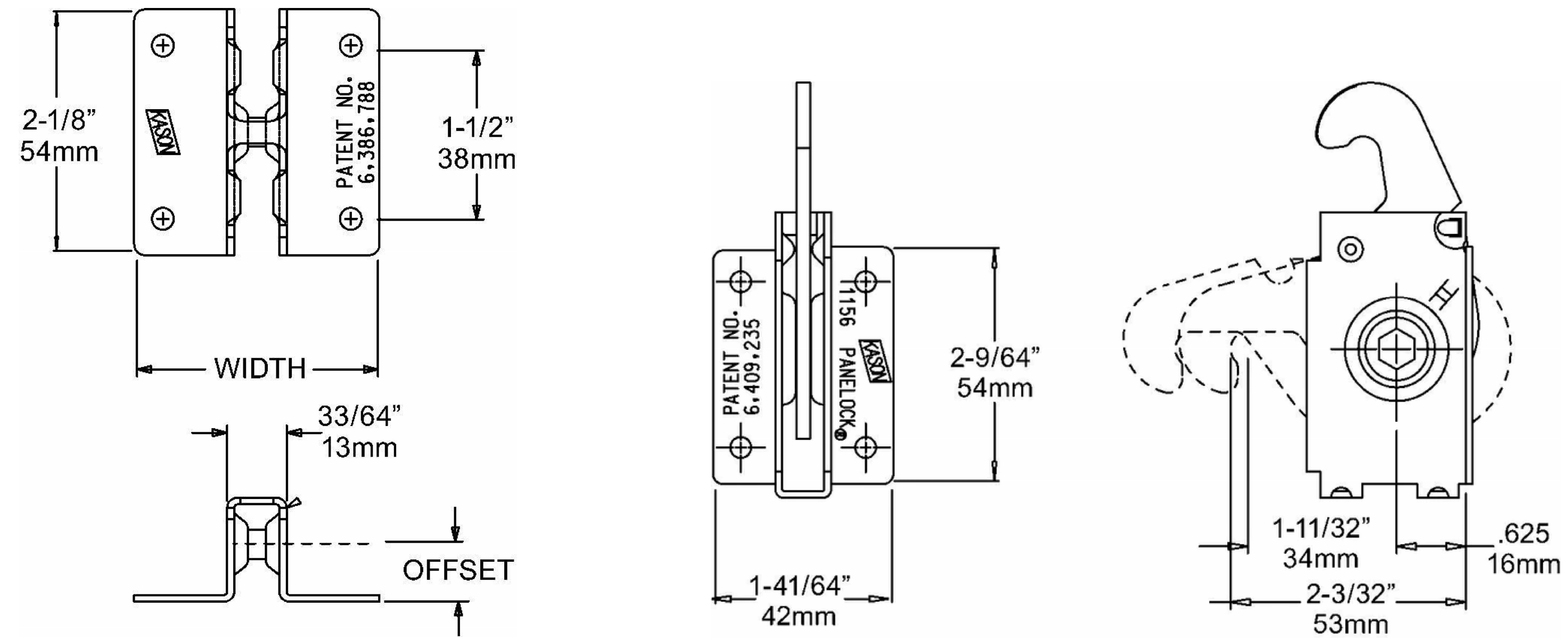
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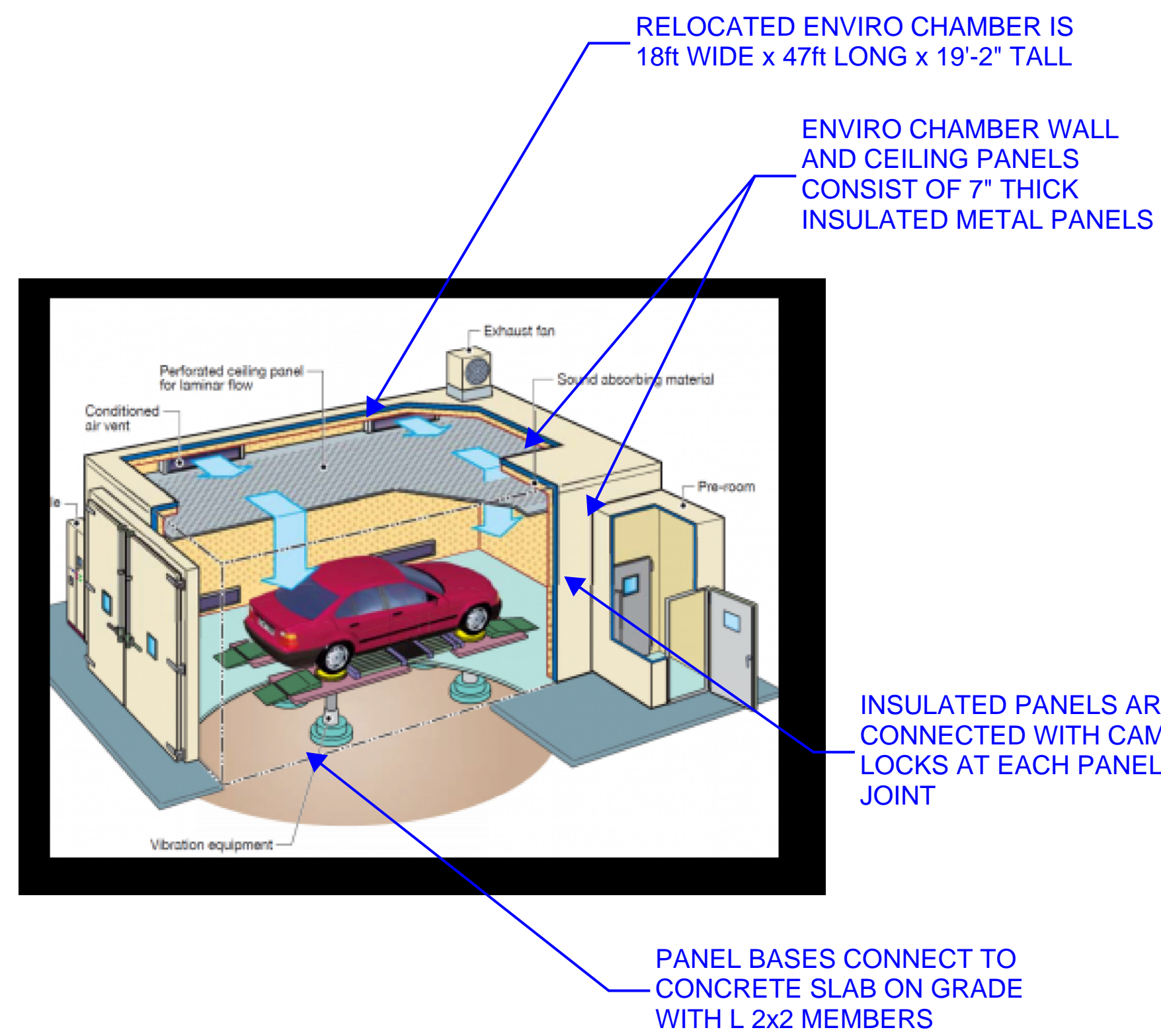
CITY STAMP:

ENVIRONMENTAL CHAMBER STRUCTURAL DETAILS

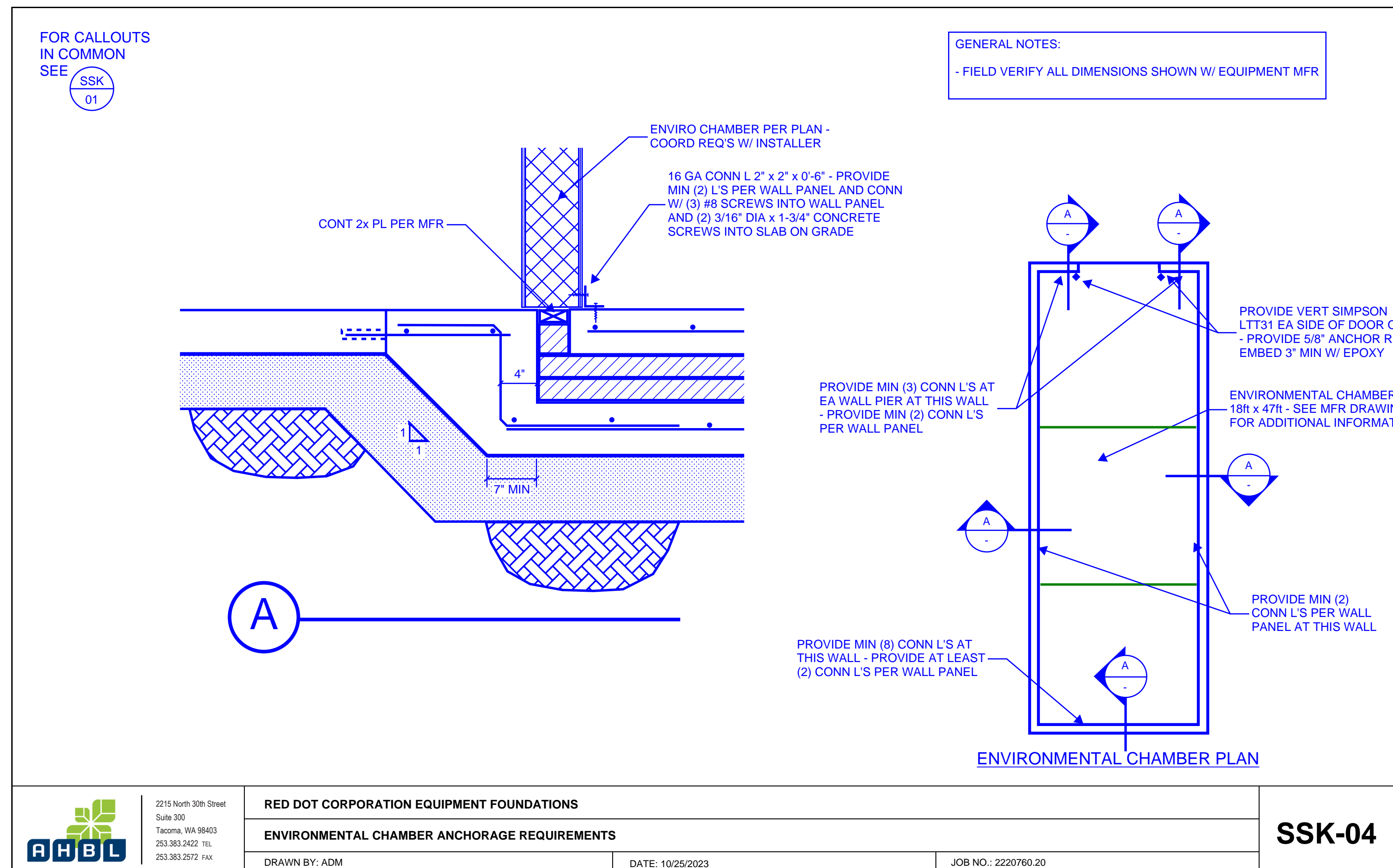
Proj. No: 21.0000440.000 Reviewed By:



2 CAM LOCK FASTENER DETAILS
SCALE: NTS



1 ENVIRONMENTAL CHAMBER DIAGRAM
SCALE: NTS



	RED DOT CORPORATION EQUIPMENT FOUNDATIONS	SSK-04
	ENVIRONMENTAL CHAMBER ANCHORAGE REQUIREMENTS	
2215 North 30th Street Suite 300 Tacoma, WA 98403 253.383.2422 TEL 253.383.2572 FAX	DRAWN BY: ADM	DATE: 10/25/2023
		JOB NO.: 2220760.20

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TUKWILA, WA 98188

PROJECT:

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TEST LAB AREA

2504 EAST MAIN AVENUE
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SEAL:



CITY STAMP:

Engineering Calculations reflect that 1/2" dia Simpson Strong Bolt. Provide special inspection report per ESR Report.
(Construction Set, Sheet S2.2)

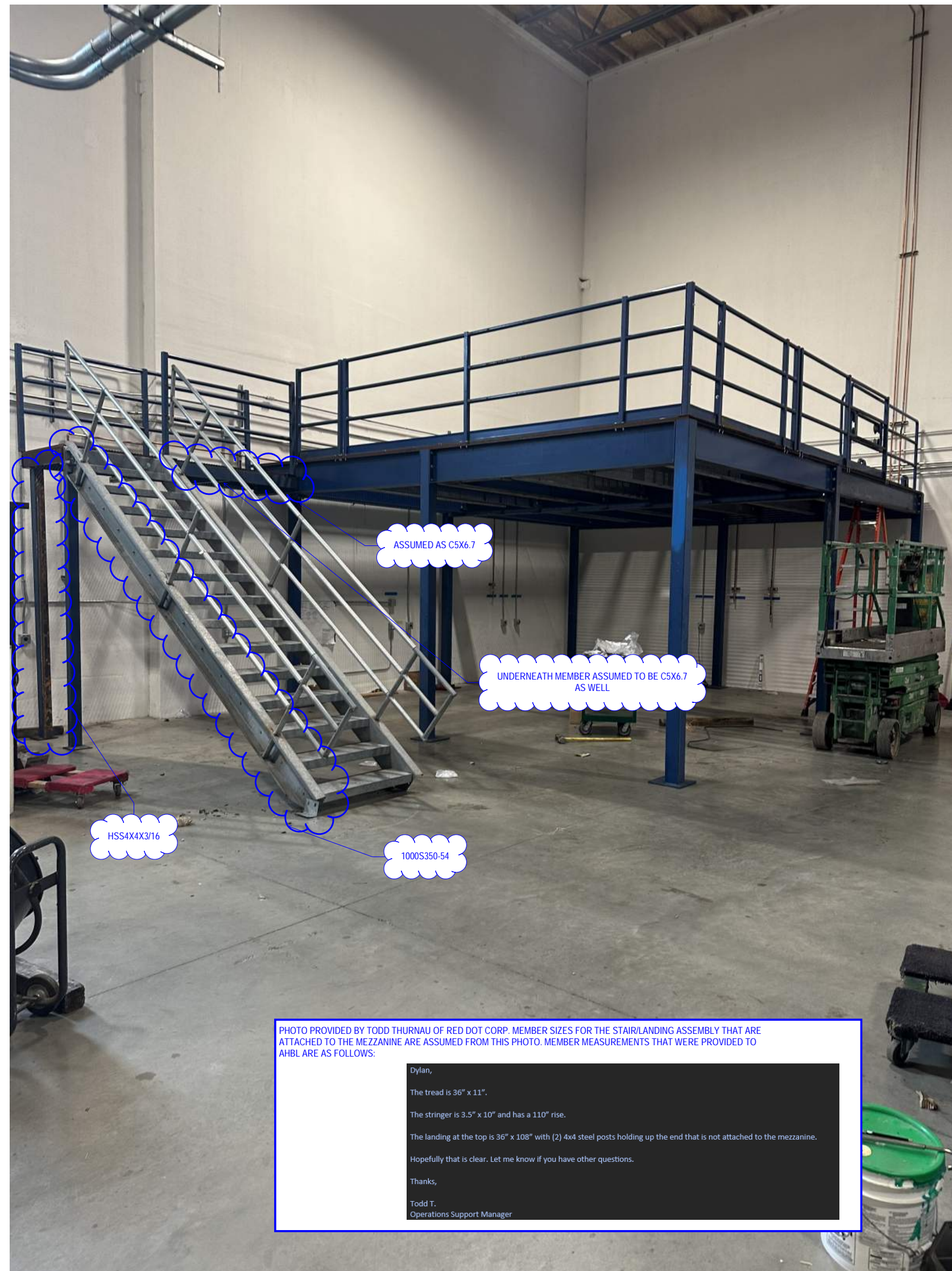
REPLACE ALL ORIGINAL FASTENERS WITH NEW - MATCH ORIGINAL SIZES AND MATERIAL SPECIFICATIONS

MINIMUM ANCHOR SIZE AND EMBEDMENT SHOWN IN ATTACHED CALCS - OK TO USE 5/8" DIA EXP ANCHORS W/ 4" EMBEDMENT PER ORIGINAL DESIGN - PROVIDE EXPANSION ANCHORS W/ CURRENT ICC REPORT

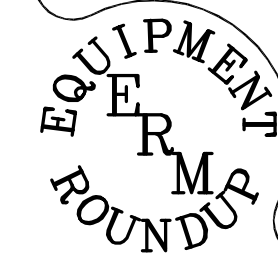
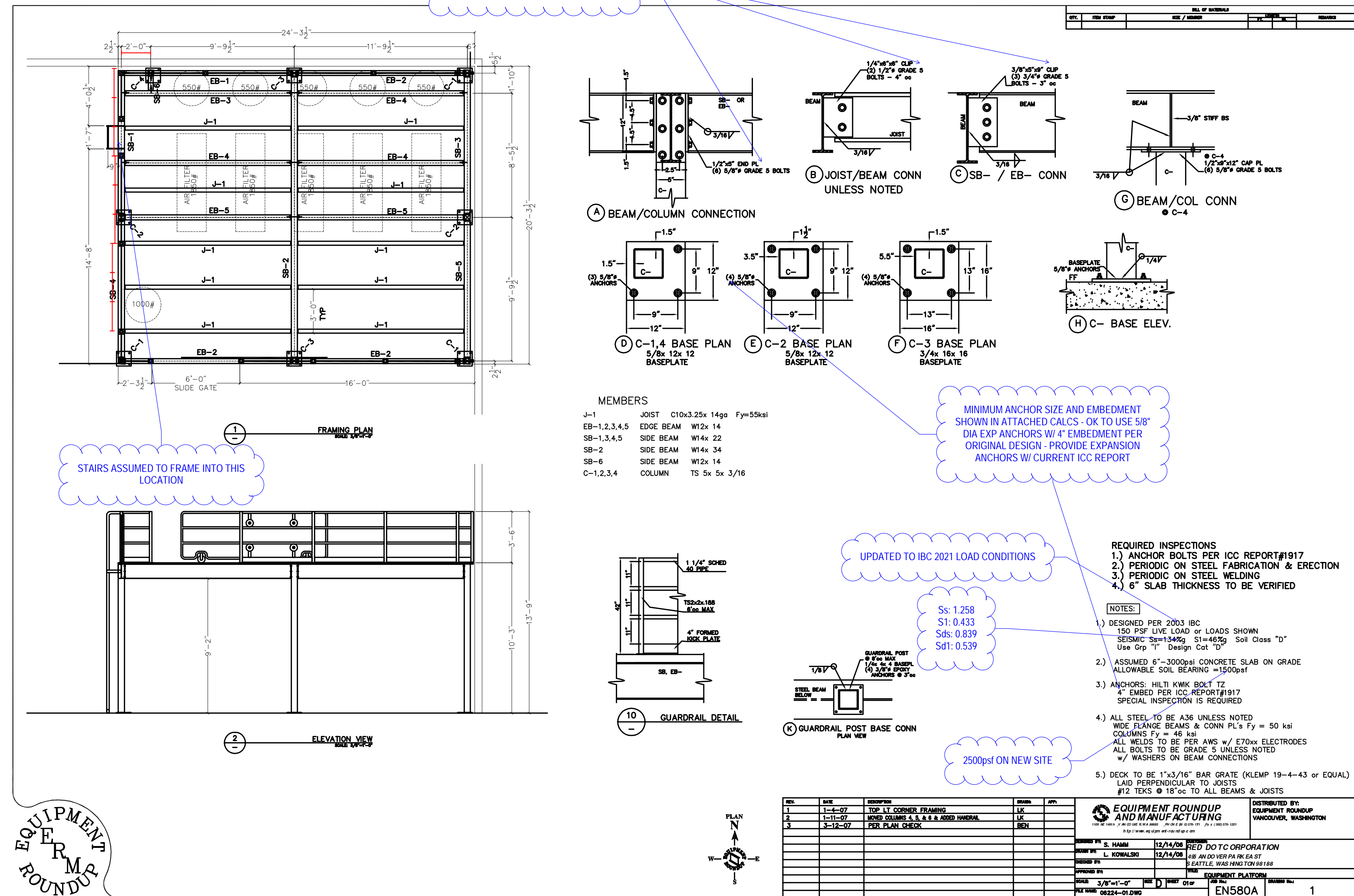
UPDATED TO IBC 2021 LOAD CONDITIONS

Ss: 1.258
S1: 0.433
Sds: 0.839
Sdt: 0.539

2500psf ON NEW SITE



1 EXISTING RELOCATED MEZZANINE STRUCTURE
A2.3 SCALE: NTS



1 CAMLOCK FASTENER DETAILS
A2.3 SCALE: NTS

MEZZANINE PLATFORM STRUCTURAL DETAILS

NOTICE

1. CONTRACTOR TO COORDINATE ALL UTILITY CONNECTIONS WITH CIVIL PLANS AND LOCAL UTILITIES.
2. PLAN SHOWN FOR REFERENCE ONLY. REFER TO CIVIL AND ARCHITECTURAL PLANS.
3. REFER TO OWNER AND LANDSCAPE DESIGN FOR ANY LANDSCAPE REQUIREMENTS.
4. FIELD VERIFY AVAILABLE SITE PRESSURE PRIOR TO START OF WORK.

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2504 EAST MAIN AVENUE
PUYALLUP, WA 98372

PLUMBING SITE PLAN - NON POTABLE WATER & GAS

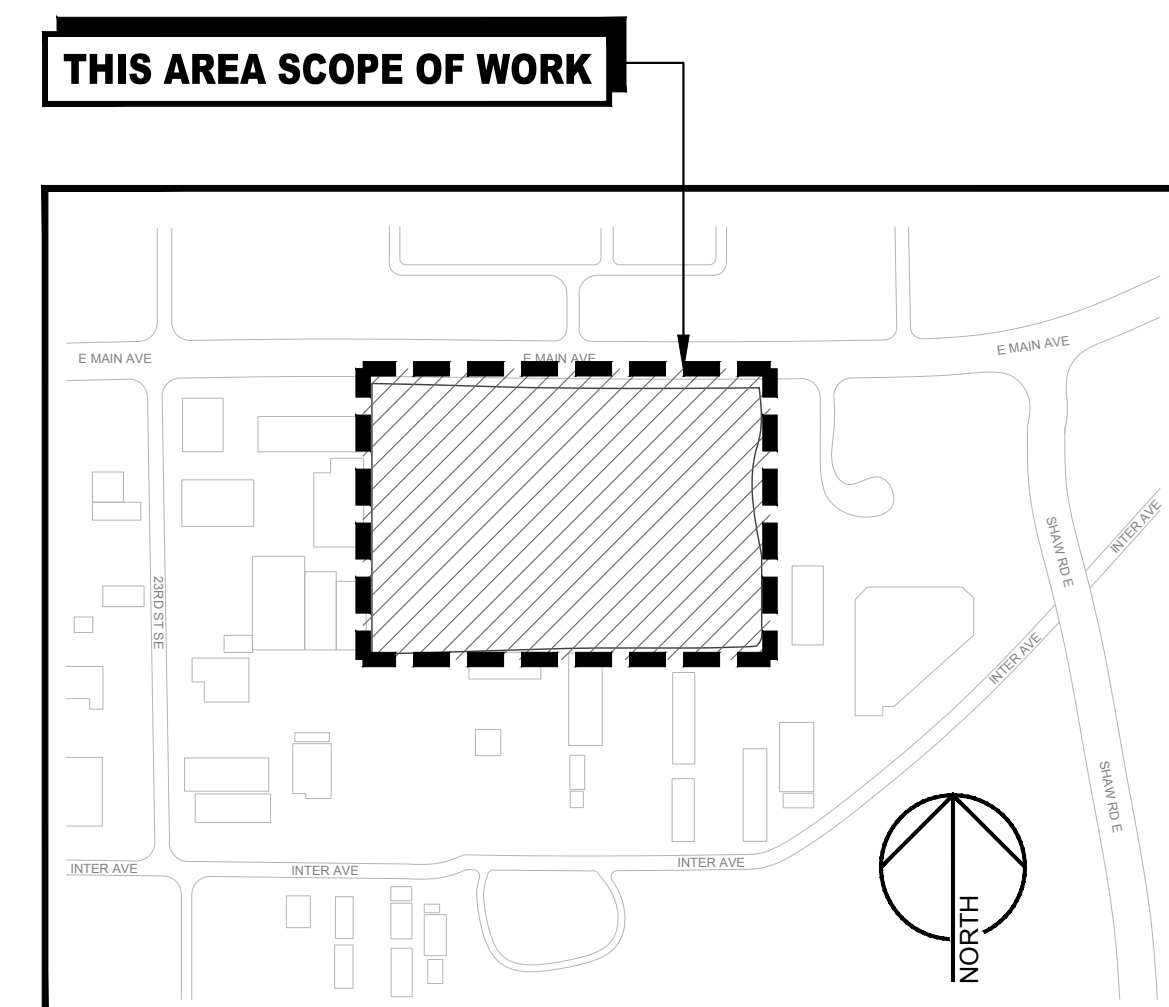
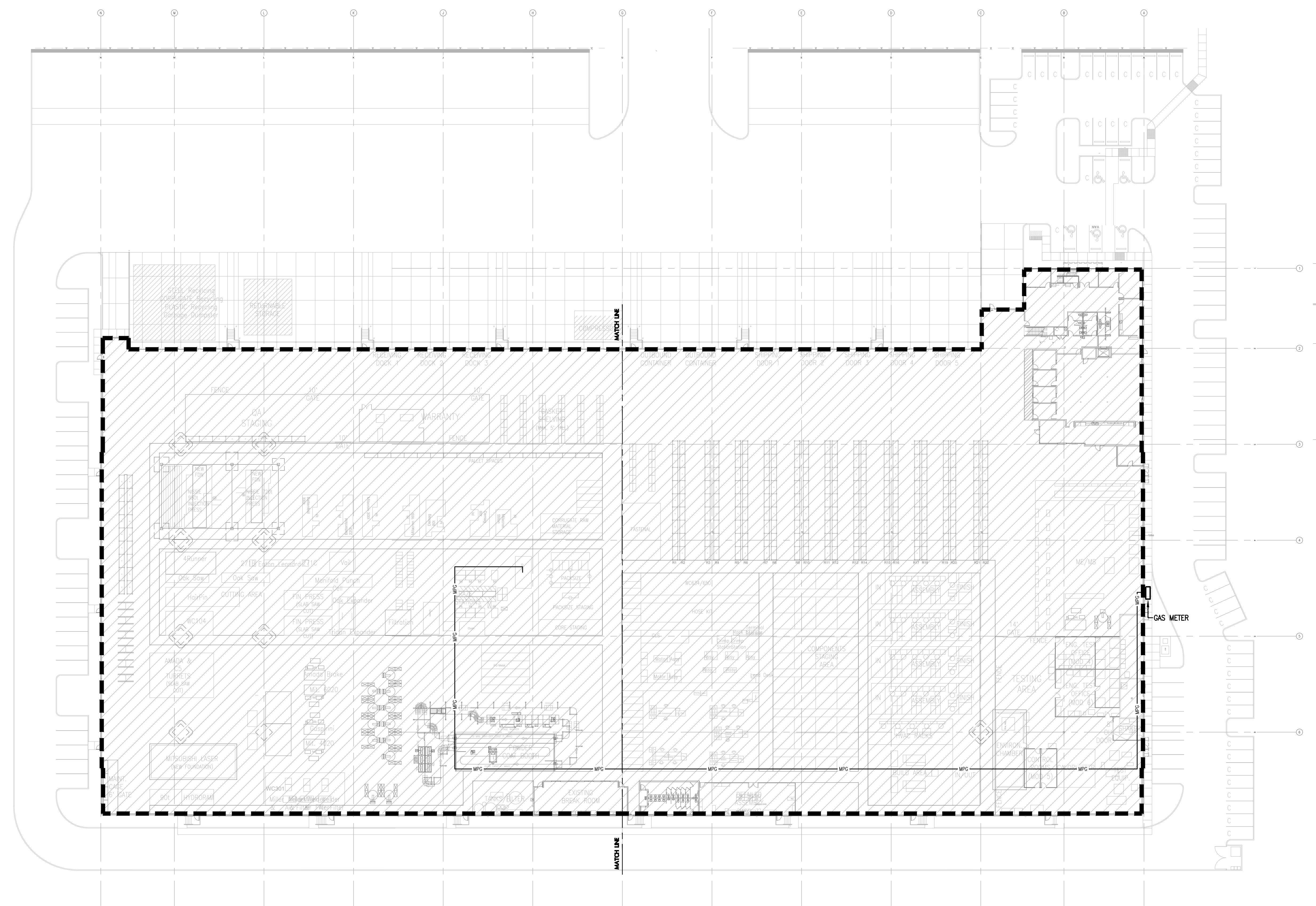
ISSUANCE

No.	Description	Date
1	PERMIT SET	06/25/2024

PROJECT INFORMATION
PROJECT NUMBER: _____
PROJECT LEAD: 2213
DRAWN/CHECKED BY: 2213

SHEET NO.

P3.0



PLUMBING SITE PLAN - NON POTABLE WATER & GAS
SCALE: 1/32" = 1'-0"



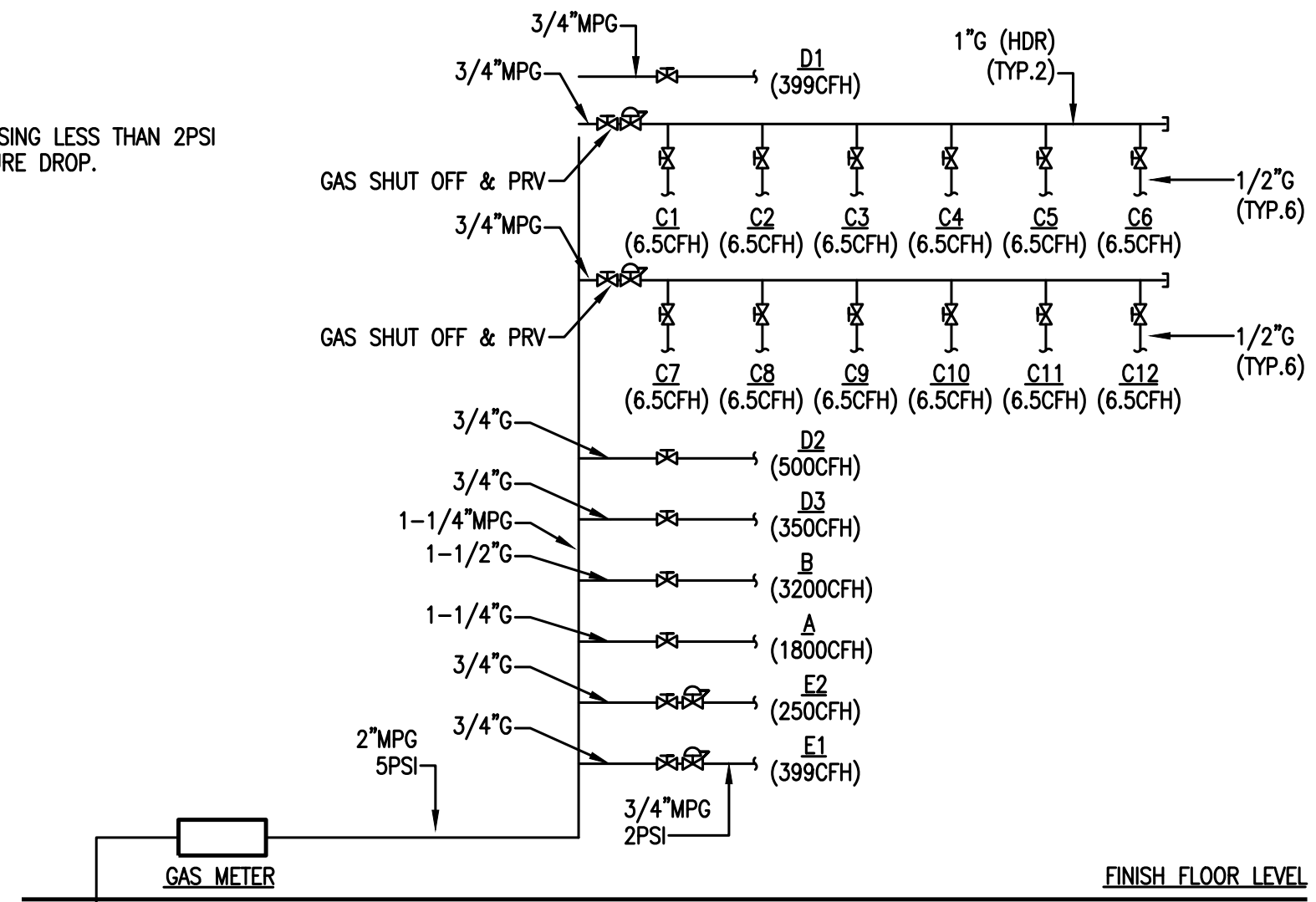
MEDIUM PRESSURE NATURAL GAS - AT 730' TDL		
BASED ON 2018 UPC TABLE 1215.2 (6)		
INLET PRESSURE	5.0 psi	
PRESSURE (SCHEDULE 40 METALLIC PIPE)		
ACTUAL LOAD (CFH)	7025	
TABLE PIPE DEVELOP (FEET)	750	
LARGEST PIPE SIZE (INCHES)	2"	
TABLE MAXIMUM LOAD (CFH)	7190	
PIPE SIZE	PIPE ID	MAXIMUM CFH
1/2"	0.622	308
3/4"	0.824	644
1"	1.049	1210
1-1/4"	1.380	2490
1-1/2"	1.610	3730
2"	2.067	7190
GAS EQUIPMENT CAPACITIES		CFH
POWDER COAT BOOTH G-1 WASHER [A]	1800	
POWDER COAT BOOTH G-2 COMBINATION OVEN [B]	3200	
OVEN #1 [D1]	399	
OVEN #2 [D2]	500	
OVEN #3 [D3]	399	
BRAZING STATION [C1]	6.5	
BRAZING STATION [C2]	6.5	
BRAZING STATION [C3]	6.5	
BRAZING STATION [C4]	6.5	
BRAZING STATION [C5]	6.5	
BRAZING STATION [C6]	6.5	
BRAZING STATION [C7]	6.5	
BRAZING STATION [C8]	6.5	
BRAZING STATION [C9]	6.5	
BRAZING STATION [C10]	6.5	
BRAZING STATION [C11]	6.5	
BRAZING STATION [C12]	6.5	
GAS BOILER [E1]	399.0	
GAS BOILER [E2]	250.0	
TOTAL	7025.0	

NOTICE

- LENGTH FROM METER TO FURTHEST REGULATOR IS 730 FEET. DISTANCES FROM REGULATORS TO MOST REMOTE APPLIANCES ARE LABELED ON THE RISER DIAGRAM. GAS PIPING IS SIZED PER 2015 SFGC, TABLE 402.4(2) AND 402.4(3).
- PROVIDE CONNECTION TO EACH PIECE OF EQUIPMENT WITH UNION, GAS COCK(TYP) AND SEDIMENT TRAP INSTALLED AS CLOSE AS POSSIBLE TO THE APPLIANCE INLET WITH THE PLUMBING DESIGN. EXCEPTIONS: APPLIANCES WITH AN INTERNAL SEDIMENT TRAP, (OR) RANGES AND GAS FIREPLACES.
- PROVIDE VENTS TO OUTDOORS FOR REGULATORS PER LOCAL JURISDICTION AND NFPA-54. ROUTING OF VENTS IS NOT SHOWN ON THE PLANS.
- PROVIDE GAS SOLENOID VALVE FOR AUTOMATIC GAS SHUT-OFF; INTERLOCK VALVE SHALL BE CLOSED (DE-ENERGIZED) UPON ALARM CONDITION. LOCATE VALVE IN ACCESSIBLE LOCATION.
- CONTRACTOR SHALL OBTAIN VERIFICATION FROM LOCAL UTILITY PRIOR TO CONSTRUCTION THAT 5.0 PSI GAS SERVICE IS AVAILABLE. NOTIFY ENGINEER IMMEDIATELY IF 5.0 PSI GAS SERVICE IS NOT AVAILABLE.
- GAS PIPING 1-1/2" AND SMALLER SHALL BE JOINED BY THREADING. GAS PIPING 2" AND LARGER SHALL BE JOINED BY WELDING.

PIPING AFTER THE PRV IS SIZED USING LESS THAN 2PSI INLET PRESSURE, 0.5" W.C PRESSURE DROP.

PIPE SIZE:	10'	MAX. CFH/MRH
1/2"	172	
3/4"	360	
1"	678	
1-1/4"	1390	
1-1/2"	2090	
2"	4020	



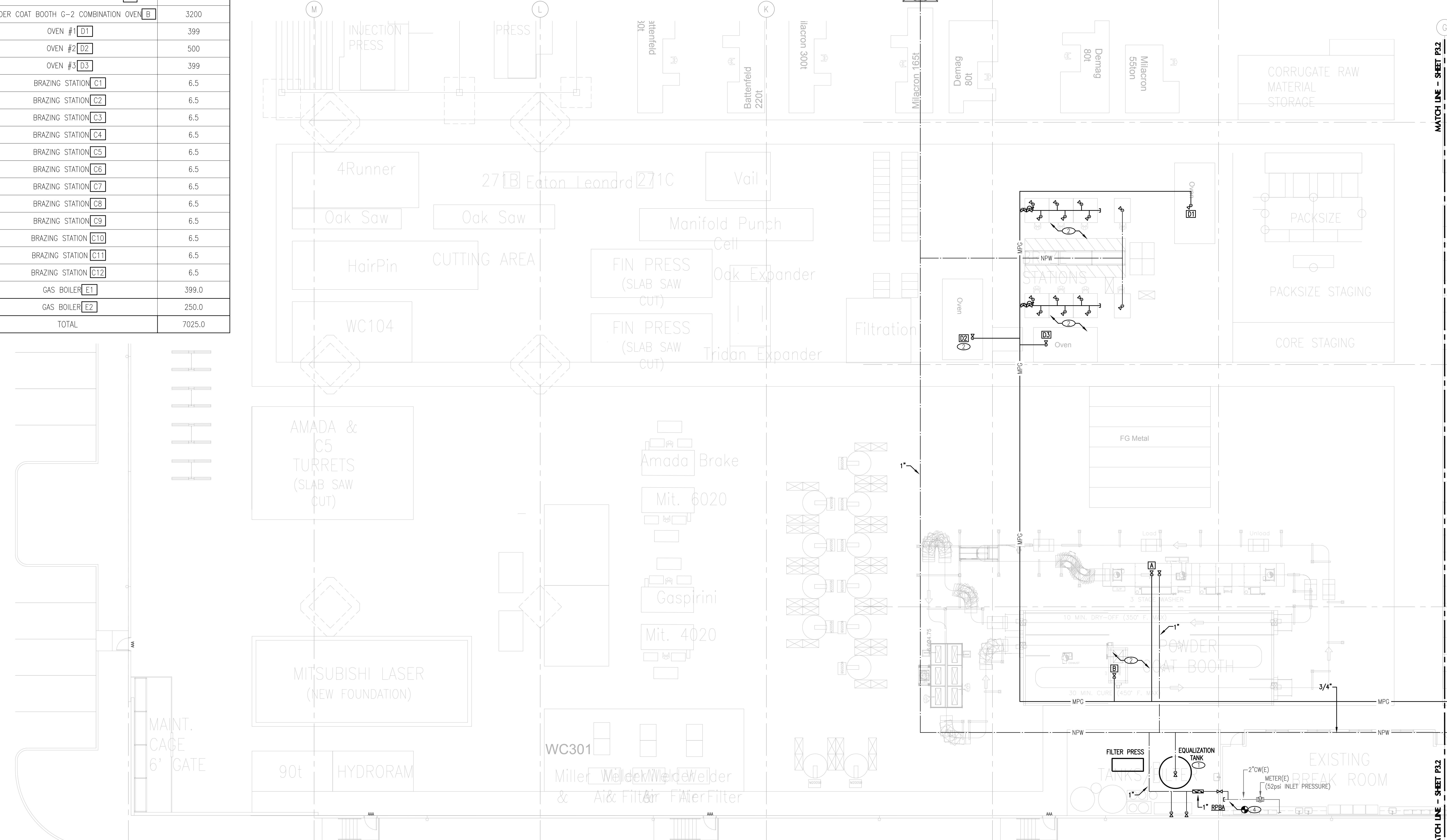
1 GAS CONNECTION DIAGRAM
NO SCALE

NOTES

- PROPOSED LOCATION OF EQUALIZATION TANK (BY OWNER)
- SEE SHEET P0.0 FOR GAS PIPING SIZES AND INFO.
- PROPOSED LOCATION OF CHILLER (BY OWNER)
- APPROXIMATE POINT OF CONNECTION TO EXISTING WATER PIPING. FIELD VERIFY EXACT SIZE AND LOCATION.

NOTICE

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENTAL AND LOCAL CODE REQUIREMENTS.
- PROVIDE ACCESS PANELS AS REQUIRED TO ALLOW ACCESS TO VALVES, EQUIPMENT, ETC. LOCATED ABOVE INACCESSIBLE CEILING AND WALL CAVITIES.
- COORDINATE ALL SLAB PENETRATIONS WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. MAINTAIN A MINIMUM OF 2" CLEARANCE FROM THE EDGE OF THE SLAB OPENING TO ANY STRUCTURAL MEMBERS AND PIPES.
- PIPE SIZES INDICATED ON THE PLANS ARE MINIMUM. THE CONTRACTOR SHALL PROVIDE PIPE SIZES EQUAL TO OR GREATER THAN THE SPECIFIED SIZES. THE CONTRACTOR MAY INCREASE PIPE SIZES AS REQUIRED AT NO ADDITIONAL EXPENSE TO THE PROJECT.
- REFER TO THE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PLUMBING FIXTURE CONNECTION SIZE REQUIREMENTS.
- ALL HANDICAPPED ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE HANDICAPPED ACCESSIBLE STALL AS REQUIRED BY ADA REQUIREMENTS.
- ALL PUBLIC USE LAVATORY FAUCETS SHALL HAVE AN AUTOMATIC SAFETY WATER MIXING DEVICE IN ACCORDANCE WITH ANS/ASSE 1017 OR 1070 AS APPLICABLE.
- PLUMBING CONTRACTOR SHALL ENSURE NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN DEDICATED SPACE ABOVE ELECTRICAL EQUIPMENT.
- REFER TO STRUCTURAL PLANS FOR COORDINATION OF EQUIPMENT SUPPORT/ANCHORING.



PLUMBING ENLARGED PLAN - NON POTABLE WATER & GAS

SCALE: 3/32" = 1'-0"

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2504 EAST MAIN AVENUE
PUYALLUP, WA 98372

PLUMBING ENLARGED PLAN - NON POTABLE WATER & GAS

No.	Description	Date
1	PERMIT SET	06/25/2024

PROJECT INFORMATION
PROJECT NUMBER:
PROJECT LEAD: 2213
DRAWN/CHECKED BY: 2213

SHEET NO



P3.1

NOTES

- 1. PROPOSED LOCATION OF GAS METER (BY LOCAL GAS COMPANY).
- 2. APPROXIMATE POINT OF CONNECTION TO EXISTING WATER & WASTE PIPING. FIELD VERIFY EXACT CONNECTION.
- 3. NEW ELECTRIC WATER HEATER SYSTEM. INSTALL PER MANUFACTURER RECOMMENDATIONS.
MANUFACTURER: AO SMITH
MODEL NUMBER: EPU-4
CAPACITY: 4 GALLONS
WATTAGE: 1,440 @ 120V
- 4. NEW VENT THRU ROOF. COORDINATE ROOF PENETRATION WITH ARCHITECTURAL PLANS AND SEAL WEATHER TIGHT. COORDINATE WITH MECHANICAL PLANS TO MAINTAIN 10"-0" MINIMUM CLEARANCE FROM MECHANICAL AIR INTAKE.

NOTICE

- 1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENTAL AND LOCAL CODE REQUIREMENTS.
- 2. PROVIDE ACCESS PANELS AS REQUIRED TO ALLOW ACCESS TO VALVES, EQUIPMENT, ETC. LOCATED ABOVE INACCESSIBLE CEILINGS AND WALL CAVITIES.
- 3. COORDINATE ALL SLAB PENETRATIONS WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. MAINTAIN A MINIMUM OF 2" CLEARANCE FROM THE EDGE OF THE SLAB OPENING TO ANY STRUCTURAL MEMBERS AND PIPES.
- 4. PIPE SIZES INDICATED ON THE PLANS ARE MINIMUM. THE CONTRACTOR SHALL PROVIDE PIPE SIZES EQUAL TO OR GREATER THAN THE SPECIFIED SIZES. THE CONTRACTOR MAY INCREASE PIPE SIZES AS REQUIRED AT NO ADDITIONAL EXPENSE TO THE PROJECT.
- 5. REFER TO THE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PLUMBING FIXTURE CONNECTION SIZE REQUIREMENTS.
- 6. ALL HANDICAPPED ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE HANDICAPPED ACCESSIBLE STALL AS REQUIRED BY ADA REQUIREMENTS.
- 7. ALL PUBLIC USE LAVATORY FAUCETS SHALL HAVE AN AUTOMATIC SAFETY WATER MIXING DEVICE IN ACCORDANCE WITH ANSI/ASSE 1017 OR 1070 AS APPLICABLE.
- 8. PLUMBING CONTRACTOR SHALL ENSURE NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN DEDICATED SPACE ABOVE ELECTRICAL EQUIPMENT.
- 9. REFER TO STRUCTURAL PLANS FOR COORDINATION OF EQUIPMENT SUPPORT/ANCHORING.

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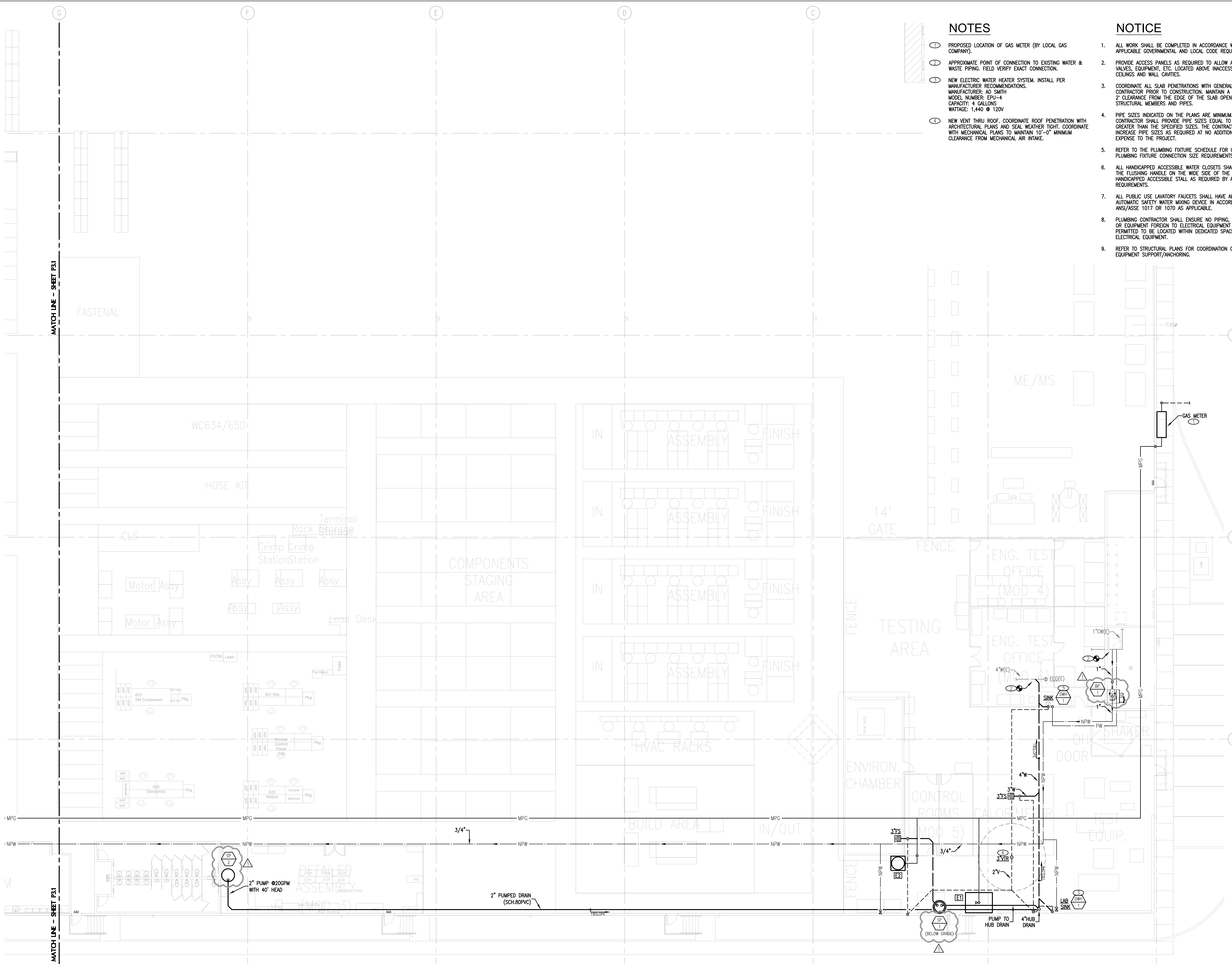
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PLUMBING ENLARGED PLAN - NON POTABLE WATER & GAS

No.	Description	Date
1	PERMIT SET	06/25/2024
1	CITY COMMENTS	10/16/2023

PROJECT INFORMATION
PROJECT NUMBER:
PROJECT LEAD: 2213
DRAWN/CHECKED BY: 2213



PLUMBING ENLARGED PLAN - NON POTABLE WATER & GAS

SCALE: 3/32" = 1'-0"

