

CDB - PROJECT NUMBER 630-128-005

**STEVENS ON YARD MAINTENANCE FACILITY
8630 JOLIET ROAD
MCCOOK, IL 60525
CDB BUILDING INVENTORY NO.
IDOT128-00001, NO. D0139, D0140,
D0145, D0146**

**FOR:
STATE OF ILLINOIS
CAPITAL DEVELOPMENT BOARD**

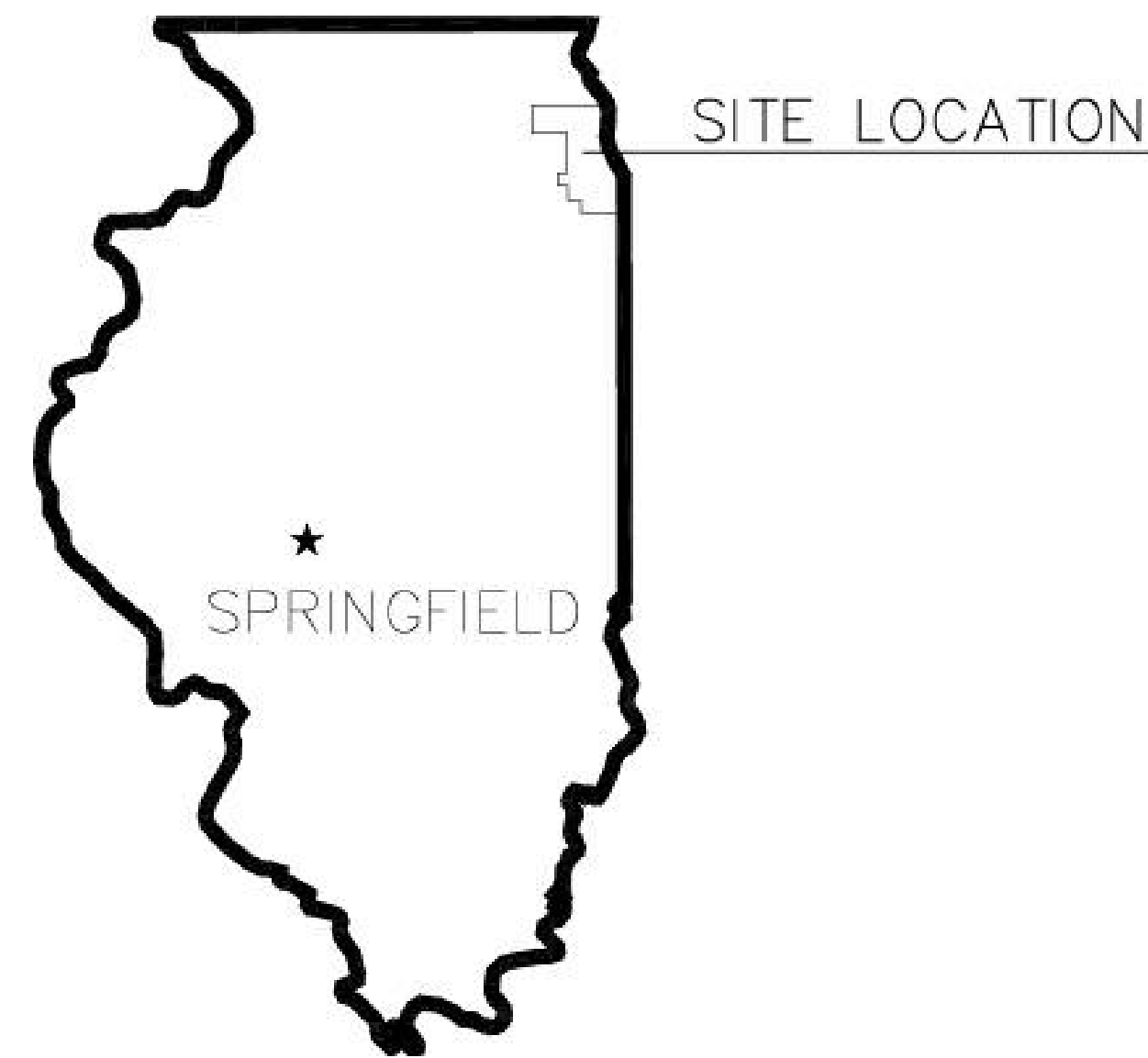
**USING AGENCY:
ILLINOIS DEPARTMENT OF TRANSPORTATION**

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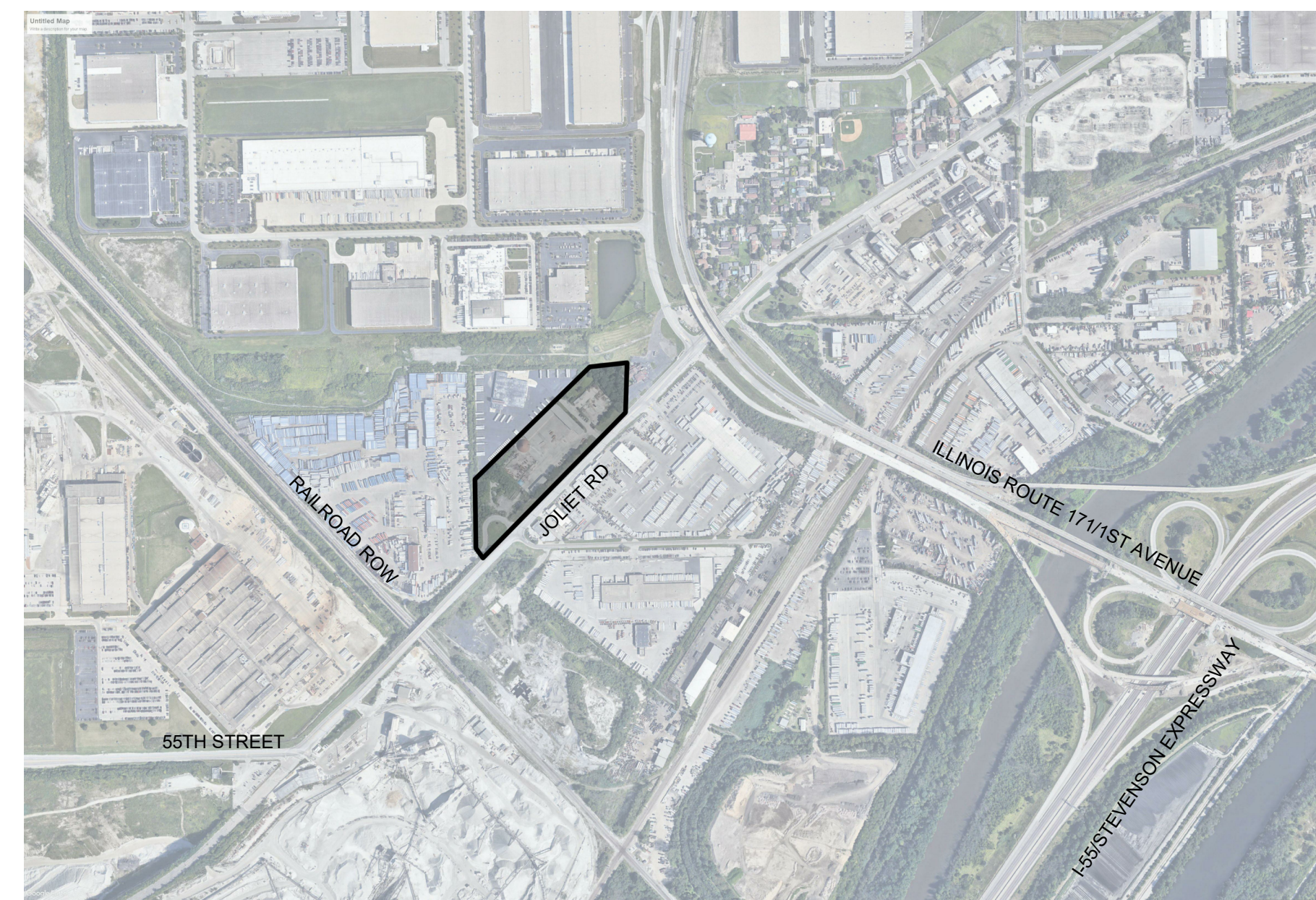
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630-568-5252**



STATE LOCATION PLAN



AREA LOCATION PLAN

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A AC	AIR CONDITIONING	F FP	FIRE PROTECTION	P PHEN	PHENOLIC
A ACT	ACOUSTIC CEILING TILE	F FT	FEET, FOOT	P PJF	PREMOLDED JOINT FILLER
A ADA	AMERICANS WITH DISABILITIES ACT	F FTG	FOOTING	P PL	PLATE
A ADJ	ADJACENT	G GA	GAUGE	P PLAM	PLASTIC LAMINATE
A AFF	ABOVE FINISHED FLOOR	G GALV	GALVANIZED	P PLSTR	PLASTER
A ALUM	ALUMINUM	G GB	GYPSUM BOARD	P PLUMB	PLUMBING
A APPROX	APPROXIMATELY	G GC	GENERAL CONTRACTOR	P PNL	PANEL
A ARCH	ARCHITECTURAL	G GCMU	GLAZED CONCRETE MASONRY UNIT	P POU	POINT OF USE
		G GFCI	GROUND FAULT CIRCUIT INTERRUPTER	P PR	PAIR
B B/	BOTTOM OF	G GFCMU	GROUND FACE CONCRETE MASONRY UNIT	P PRC	PRECAST
B BIT	BITUMINOUS	G GFRC	GLASS FIBER REINFORCED CONCRETE	P PREFAB	PREFABRICATE(D)
B BLDG	BUILDING	G GFRC	GLASS FIBER REINFORCED CONCRETE	P PT(D)	PAINT(ED)
B BRK	BRICK	G GFRG	GLASS FIBER REINFORCED GYPSUM	P PTN	PARTITION
B BTW	BETWEEN	G GL	GLASS	P PVC	POLYVINYL CHLORIDE
		H HB	HOSE BIB	P PWD	PLYWOOD
C CAB	CABINET	H HC	HOLLOW CORE	Q QT	QUARRY TILE
C CB	CEMENT BOARD	H HDW	HARDWARE		
C CCD	CHICAGO CITY DATUM	H HM	HOLLOW METAL	R RB	RESILIENT BASE
C CFMF	COLD FORMED METAL FRAMING	H HORIZ	HORIZONTAL(LY)	R RCP	REFLECTED CEILING PLAN
C CI	CONTINUOUS INSULATION	H HP	HIGH POINT	R RD	ROOF DRAIN
C CIP	CAST IN PLACE	H HR(S)	HOUR(S)	R REF	REFERENCE
C CJ	CONTROL JOINT	H HT	HEIGHT	R REINF	REINFORCED(D)(ING)
C CL	CENTERLINE	H HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	R REQD	REQUIRED
C CLNG	CEILING	H HW	HOT WATER	R RH	RIGHT HAND
C CLO	CLOSET	H HWD	HARDWOOD	R RM	ROOM
C CLR	CLEAR(ANCE)	H HWH	HOT WATER HEATER	R RO	ROUGH OPENING
C CMU	CONCRETE MASONRY UNIT	I ID	INSIDE DIAMETER	R ROW	RIGHT-OF-WAY
C CO	CLEAN OUT	I IN	INCH(ES)	R RSR	RISER
C COL	COLUMN	I INCL	INCLUDE(D)(ING)	R RTN	RETURN
C COMM	COMMUNICATION(S)	I INFO	INFORMATION	S SAN	SANITARY
C CONC	CONCRETE	I INSUL	INSULATION	S SC	SEALED CONCRETE
C CONST	CONSTRUCTION	I INT	INTERIOR, INTERNAL	S SCFT	STRUCTURAL CLAY FACING TILE
C CONT	CONTINUOUS	J JAN	JANITOR	S SCHED	SCHEDULE
C CORR	CORRIDOR	J JST	JOIST	S SCWD	SOLID CORE WOOD DOOR
C CPT	CARPET	J JT	JOINT	S SF	SQUARE FEET(FOOT)
C CRS	COURSE(S)	L LAM	LAMINATE(D)	S SFCMU	SPLIT FACE CONCRETE MASONRY UNIT
C CS	CAST STONE	L LAV	LAVATORY	S SHT	SHEET
C CT	CERAMIC TILE	L LBP	LEAD-BASED PAINT	S SHWR	SHOWER
C CW	COLD WATER	L LBS	POUND(S)	S SIM	SIMILAR
C STC	SOUND TRANSMISSION CLASS	L LFB	LEAD-BASED PAINT	S SPEC(S)	SPECIFICATION(S)
D DBL	DOUBLE	L LF	LINEAR FEET	S SQ	SQUARE
D DEMO	DEMOLISH, DEMOLITION	L LH	LEFT HAND	S ST STL	STAINLESS STEEL
D DF	DRINKING FOUNTAIN	L LLH	LONG LEG HORIZONTAL	S STL	STEEL
D DIA	DIAMETER	L LLV	LONG LEG VERTICAL	S STN	STONE
D DIM	DIMENSION	L LP	LOW POINT	S STRUC	STRUCTURE/STRUCTURAL
D DN	DOWN	L LVL	LEVEL	S SUSP	SUSPENDED
D DS	DOWNSPOUT	M MATL	MATERIAL(S)	T T&G	TONGUE AND GROOVE
D DWG(S)	DRAWING(S)	M MAX	MAXIMUM	T T/	TOP OF
E EA	EACH	M MECH	MECHANICAL	T TD	TRENCH DRAIN
E EJ	EXPANSION JOINT	M MEP	MECHANICAL, ELECTRICAL & PLUMBING	T TEL	TELEPHONE
E ELEC	ELECTRICAL	M MEZZ	MEZZANINE	T TEMP	TEMPORARY
E ELEV	ELEVATION	M MFR	MANUFACTURER(R)(D)	T THK	THICK(NESS)
E ELVR	ELEVATOR	M MH	MANHOLE	T TRD	TREAD
E ENCL	ENCLOSURE	M MIN	MINIMUM	T TYP	TYPICAL
E ENT	ENTRANCE	M MISC	MISCELLANEOUS	T TZ	TERRAZZO
E EOS	EDGE OF SLAB	M MNT	MOUNT(ING)	U UL	UNDERWRITER'S LABORATORIES
E EP	EPOXY PAINT	M MO	MASONRY OPENING	U UNF	UNFINISHED
E EQ	EQUAL	M MOPD	MAYOR'S OFFICE FOR PEOPLE WITH DISABILITIES	U UNO	UNLESS NOTED OTHERWISE
E EQUIP	EQUIPMENT	M MTD	MOUNTED	U UNX	UNEXCAVATED
E ES	EXTERIOR SHEATHING	M MTL	METAL	U URN	URINAL
E ESCR	ESCALATOR	M MWK	MILLWORK	V VB	VINYL BASE
E EWC	ELECTRIC WATER COOLER	N NIC	NOT IN CONTRACT	V VCT	VINYL COMPOSITION TILE
E EWH	ELECTRIC WATER HEATER	N NO	NUMBER	V VERT	VERTICAL(LY)
E EXH	EXHAUST	N NOM	NOMINAL	V VIF	VERIFY IN FIELD
E EXIST	EXISTING	N NTS	NOT TO SCALE	V VTR	VENT THROUGH ROOF
E EXP	EXPOSED	O OC	ON CENTER	W W/	WITH
E EXT	EXTERIOR	O OCC	OCCUPANCY	W WAP	WIRELESS ACCESS POINT
F F/	FACE OF	O OD	OUTSIDE DIAMETER	W WC	WATER CLOSET
F FAAP	FIRE ALARM ANNUNCIATOR PANEL	O OHD	OVERHEAD DOOR	W WD	WOOD
F FACP	FIRE ALARM CONTROL PANEL	O OPH	OPPOSITE HAND	W WGT	WEIGHT
F FD	FLOOR DRAIN	O OPNG	OPENING	W WH	WALL HUNG
F FDN	FOUNDATION	O OPP	OPPOSITE	W WM	WIRE MESH
F FE	FIRE EXTINGUISHER	P PCT	PORCELAIN CERAMIC TILE	W WP	WORKING POINT
F FEC	FIRE EXTINGUISHER CABINET			W WR	WATER RESISTANT
F FF	FINISHED FLOOR			W WRB	WEATHER RESISTIVE BARRIER
F FIN	FINISH(ED)			W WWF	WELDED WIRE FABRIC
F FLR	FLOOR				

PROJECT PATTERNS

	CONCRETE
	PRECAST CONCRETE
	GLASS-FIBER-REINFORCED CONCRETE
DIVISION 04 - MASONRY	
	BRICK
	STONE
	CONCRETE MASONRY UNIT (CMU)
	MORTAR NET
	STRUCTURAL GLAZED TILE (SGT)
DIVISION 05 - METALS	
	ALUMINUM
	STEEL
DIVISION 06 - WOODS, PLASTICS AND COMPOSITES	
	BLOCKING / SHIM
	DIMENSIONAL LUMBER
	FINISH WOOD
	PLYWOOD
	EXTERIOR SHEATHING
	RESILIENT TILE
	SOLID SURFACE MATERIAL (SSM)
DIVISION 07 - THERMAL AND MOISTURE PROTECTION	
	FIRE BLANKET
	FIREPROOFING
	INSULATION - BATT
	INSULATION - NON-RIGID
	INSULATION - RIGID OR SEMI RIGID
DIVISION 08 - OPENINGS	
	GLAZING (LARGE SCALE)
DIVISION 09 - FINISHES	
	ACOUSTICAL CEILING TILE (ACT)
	CERAMIC TILE (WALL OR FLOOR)
	GYPSUM WALL BOARD
	GLASS-FIBER-REINFORCED GYPSUM
	TERRAZZO
DIVISION 31 - EARTHWORK	
	EARTH
	EARTH (FILL)
	GRAVEL
	GRASS
DIVISION 32 - SITE IMPROVEMENTS	
	TACTILE WARNING

GENERAL SYMBOL LEGEND

	View Name	DRAWING TITLE
	WALL/BUILDING SECTIONS	
	DETAIL SECTIONS	
	ENLARGED PLAN/SECTION/ELEVATION	
	ELEVATION TAG	
	INTERIOR ELEVATIONS	
	COLUMN BUBBLE	
	ROOM TAG	
	REVISION TAG	
	SPOT COORDINATE	
	SPOT ELEVATION	
	KEYNOTE TAG	
	REFERENCE TAG	
	NORTH ARROW	
	KEY PLAN SECTION LOCATION TAG	
	WORKING POINT	
	CENTERLINE	
	DIMENSION	

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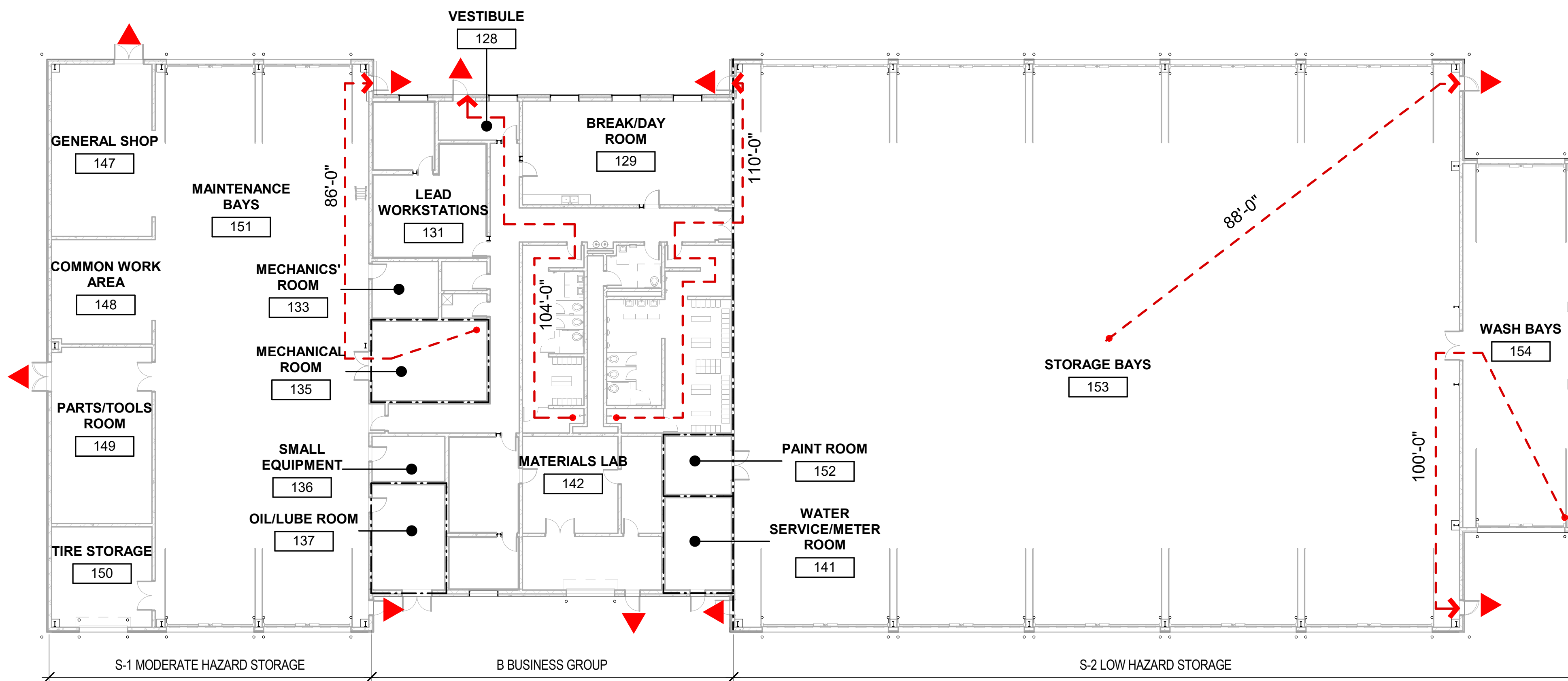
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State of Illinois
JB PRITZKER, GOVERNOR
 Illinois Capital Development Board

ABBREVIATIONS & SYMBOLS
 STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
DATE 05/06/2020
SHEET NO. G0-2
OF () SHEETS



GENERAL LIFE SAFETY NOTES

- INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS 1 WITH A FLAME SPREAD RATING 0-25, AND SMOKE DEVELOPED RATING OF 200
- ALL FLOOR COVERINGS SHALL BE CLASS A INTERIOR FINISH WITH CRITICAL RADIANT FLUX OF 0.45 WATTS PER SQ. CM. OR HIGHER
- ALL EXIT DOORS TO SWING IN THE DIRECTION OF TRAVEL EXCEPT FROM ROOMS HAVING A CAPACITY NOT EXCEEDING 50 PERSONS.
- ALL EXIT DOORS MUST BE READILY OPENED WITHOUT A KEY IN THE DIRECTION OF EGRESS.
- ALL GLASS IN DOORS TO BE TEMPERED SAFETY GLASS AND SAFETY RATED GLASS ADJACENT TO DOORS.
- ALL FIRE RATINGS INDICATED FOR WALLS, CEILINGS, AND ROOF ARE TO COMPLY WITH UNDERWRITER'S LABORATORIES TEST RATINGS OR AS REGULATED BY FP 130.
- ALL GYPSUM BOARD TO BE TYPE 'X' UNLESS NOTED OTHERWISE.
- ALL ROOF COVERINGS TO BE MINIMUM OF CLASS 'A' FIRE RESISTANT ROOF COVERINGS
- ALL DOORS OPENING INTO MECHANICAL OR ELECTRICAL EQUIPMENT ROOMS, STAIRS OR ENTRANCES TO VEHICULAR TRAFFIC AREAS SHALL HAVE KNURLED HANDLES.
- ALL RATED DOORS TO HAVE A FIRE DOOR CERTIFICATION LABEL READILY VISIBLE BY THE AUTHORITY HAVING JURISDICTION, MUST BE SELF-CLOSING AND MUST HAVE A POSITIVE LATCH, AND MUST BE INSTALLED IN ACCORDANCE WITH NFPA-80.

BUILDING CODE ANALYSIS

CDB IS THE AUTHORITY HAVING JURISDICTION

APPLICABLE CODES

2018 INTERNATIONAL BUILDING CODE (IBC)
 2015 NFPA - 101 LIFE SAFETY CODE
 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
 2018 IL ACCESSIBILITY CODE (IAC)
 2014 IL PLUMBING CODE
 2017 NATIONAL ELECTRIC CODE (NEC)
 2018 INTERNATIONAL MECHANICAL CODE (IMC)

OCCUPANCY CLASS

MIXED OCCUPANCY
 BUSINESS GROUP B
 MODERATE HAZARD STORAGE GROUP S-1
 LOW HAZARD STORAGE GROUP S-2

FIRE SEPARATIONS BETWEEN B & S-1 0 HR
 FIRE SEPARATIONS BETWEEN B & S-2 1 HR

ROOMS REQUIRING 1 HR FIRE SEPARATION
 MECHANICAL ROOM
 SMALL EQ ROOM
 OIL/LUBE ROOM
 PAINT ROOM
 METER ROOM

CONSTRUCTION TYPE & FIRE RESISTANCE RATINGS

II-B
 PRIMARY STRUCTURAL FRAME 0 HR
 BEARING WALLS (EXT/INT) 0 HR / 0 HR
 NON-BEARING WALLS (EXT/INT) 0 HR / 0 HR
 FLOOR CONSTRUCTION 0 HR
 ROOF CONSTRUCTION 0 HR

MAX HEIGHT & AREA

FULLY SPRINKLERED BUILDING
 MAX HEIGHT = 75 FT / 4 STORIES
 MAX AREA S-1 = 70,000 SF

MEANS OF EGRESS

SINGLE EXIT ACCESS
 MAX 49 OCCUPANTS
 MAX 100 FT TRAVEL DISTANCE (WITH SPRINKLERS)

TWO EXITS

S-1 MAX TRAVEL DISTANCE = 250 FT (WITH SPRINKLERS)
 B MAX TRAVEL DISTANCE = 300 FT (WITH SPRINKLERS)
 MAX DEAD END TRAVEL DISTANCE = 50 FT (B & S-1 WITH SPRINKLERS)
 MIN CORRIDOR WIDTH = 44 INCHES

32' 16' 8' 0'
 SCALE: 1/16" = 1'-0"

1 LIFE SAFETY PLAN

1/16" = 1'-0"

LIFE SAFETY SYMBOLS LEGEND

- EGRESS EXIT
- TRAVEL DISTANCE TO EXIT
- FIRE EXTINGUISHERS - PROVIDED BY USING AGENCY
- 1 HOUR RATED
- 2 HOUR RATED

EGRESS OCCUPANCY CALCULATIONS

FUNCTION	S.F./OCCUPANT	SF/SPACE	OCCUPANCY/SPACE
STORAGE/MECH	300 GROSS	2915 SF	15
BUSINESS	150 GROSS	1865 SF	16
LOCKER ROOMS	50 GROSS	1293 SF	27
VEHICLE PARKING	200 GROSS	24216 SF	122
INDUSTRIAL AREA	100 GROSS	1198 SF	13
ASSEMBLY (TABLES & CHAIRS)	15 NET	917 SF	61
TOTAL OCCUPANT LOAD			254

PLUMBING CALCULATIONS

ACTUAL PERSONNEL

MAINTENANCE PERSONNEL
 MEN - 42
 WOMEN - 12

MAINTENANCE OFFICE PERSONNEL
 MEN - 5
 WOMEN - 5

MATERIAL LAB PERSONNEL
 MEN - 5
 WOMEN - 5

TOTAL OCCUPANTS

MEN - 52
 WOMEN - 22

IL PLUMBING CODE

EMPLOYEE FACILITIES

WC 1: 1-15 Lav 1: 1-15
 2: 16-35 2: 16-35
 3: 36-55 3: 36-60

TOTAL MEN'S FIXTURES = 6 WC & 3 LAV
 TOTAL WOMEN'S FIXTURES = 3 WC & 2 LAV

SERVICE SINK - 1
 DRINKING FOUNTAIN - 1 (HI-LO)

ENERGY CODE ANALYSIS

MINIMUM THERMAL ENVELOPE REQUIREMENTS
 CLIMATE ZONE 5A

TABLE C402.1.3

ROOFS R-30 ci

METAL BUILDING ROOFS R-19 + R-11 LS

EXTERIOR MASS WALLS R-11.4 ci

EXTERIOR METAL BUILDINGS R-13 + R-13 ci

BELOW GRADE WALLS R-7.5ci

FLOORS MASS R-10 ci

UNHEATED SLABS R-10 FOR 24 INCHES BELOW

NON SWINGING DOORS R-4.75

TABLE C402.1.4

GARAGE DOORS, LESS THAN 14% GLAZING U-0.31

SWINGING DOOR U-0.37

TABLE C402.4

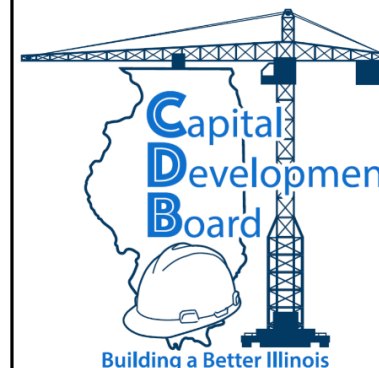
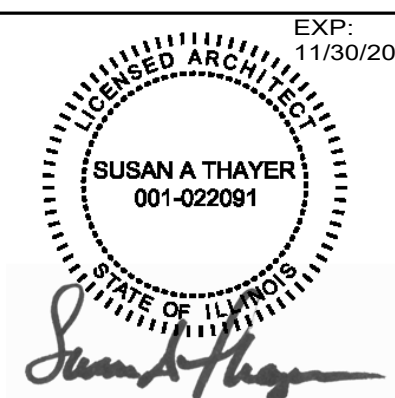
SKYLIGHT CURBS R-5

FIXED FENESTRATION U-0.38 & SHGC-SEW-0.38

SKYLIGHTS U-0.50 & SHGC-0.40

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CODE & LIFE SAFETY ANALYSIS

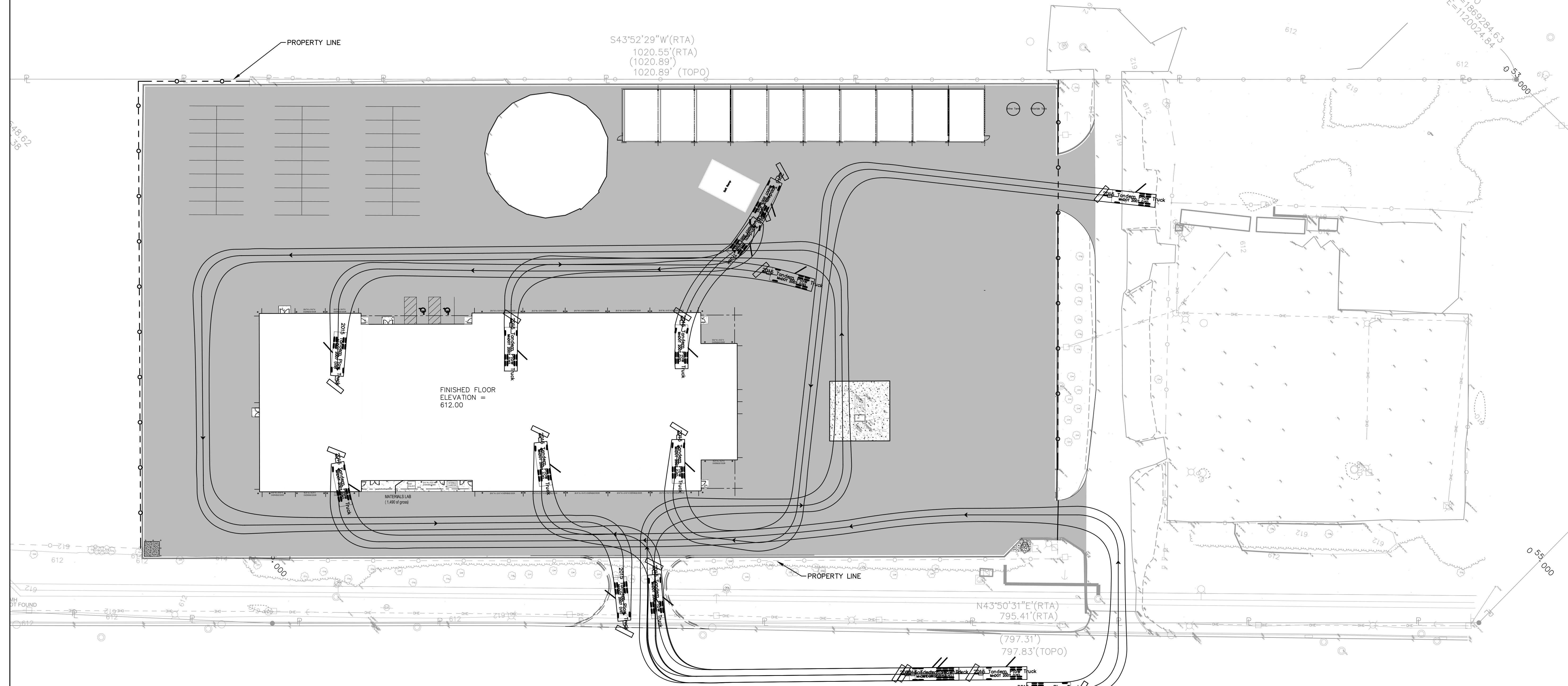
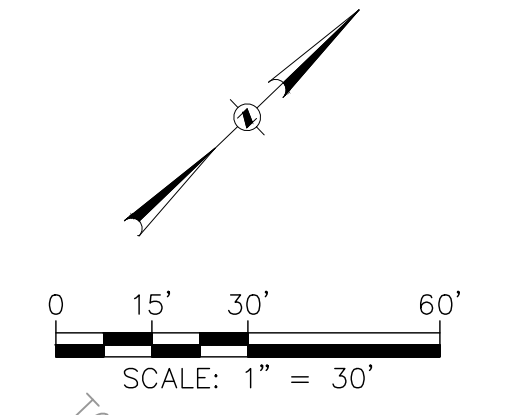
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05/06/2020

SHEET NO.
G0-3

OF () SHEETS



DESIGN CONSIDERATIONS:

1. TURNING MOVEMENTS WERE COMPLETED WITH MNDOT SNOW PLOW ON AUTOTURN 2018, SINCE THESE WERE THE CLOSEST TRUCKS TO AN IDOT SNOW PLOW AVAILABLE.
2. SNOW PLOW MOVEMENTS WERE COMPLETED FOR THE FUTURE JOLIET ROAD DRIVEWAY.

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

REVISIONS		
NO.	DATE	REMARKS
A	5/6/20	FINAL BRIDGING DOCUMENTS

DRAWN EJM	PREPARED PMJ
TRACED	APPROVED
CHECKED	APPROVED

PETER M. JOHNSTON, P.E.
#062-047647
EXPIRATION DATE: 11-30-2021

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Suite 280
Chicago, IL 60631-2817
773 / 399 0112
773 / 399 0170 fax
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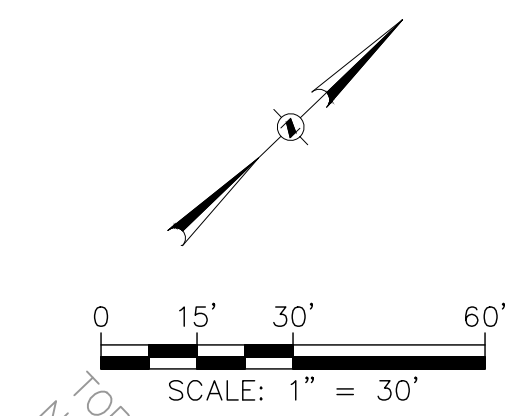
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Chicago, IL 60642
t 312.432.4180
f 312.432.4184
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DESIGN FIRM REG. #184-003047

Capital Development Board
Building a Better Illinois

State of Illinois
JB PRITZKER, GOVERNOR
Illinois Capital Development Board

TURNING MOVEMENTS - 1
STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO.
650-128-005
DATE
05/06/2020
SHEET NO.
C001
OF () SHEETS



TOPO
 N=1869284.63
 E=1120024.84

S43°52'29"W (RTA)
 1020.55' (RTA)
 (1020.89')
 1020.89' (TOPO)

PROPERTY LINE

ADA PARKING
 STALLS = 2

FINISHED FLOOR
 ELEVATION =
 612.00

MATERIALS LAB
 (1,480 sf gross)

N43°50'31"E (RTA)
 795.41' (RTA)
 (797.31')
 797.83' (TOPO)

PROPERTY LINE

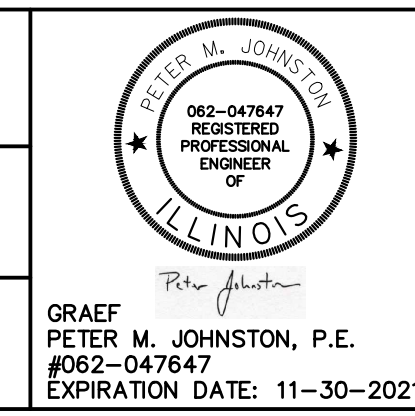
DESIGN CONSIDERATIONS:

WB-65 MOVEMENTS WERE DONE AROUND THE SITE TO SHOW CIRCULATION AROUND THE NEW BUILDING.

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

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TRACED	APPROVED
CHECKED	APPROVED

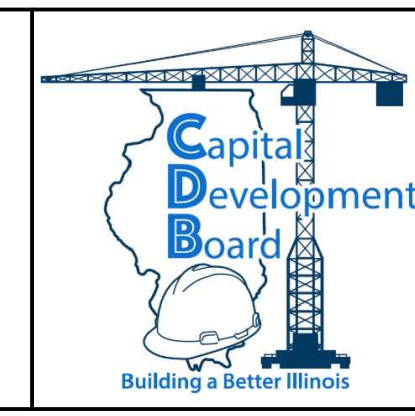


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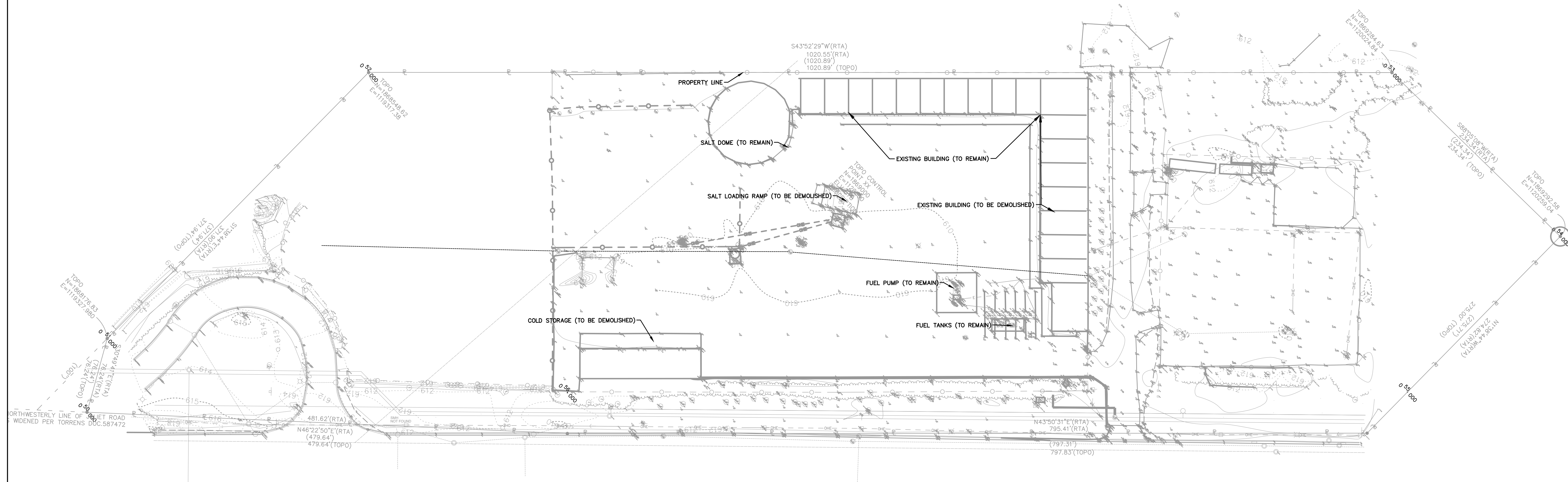
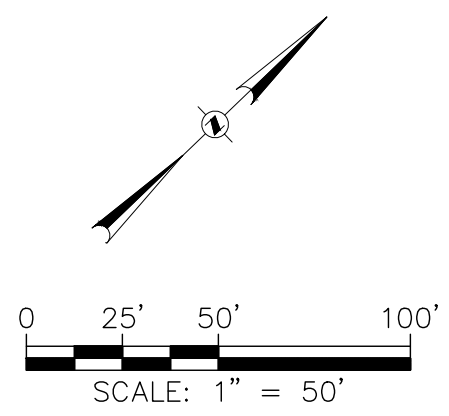
State of Illinois
JB PRITZKER, GOVERNOR
Illinois Capital Development Board

TURNING MOVEMENTS - 2

STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 650-128-005
DATE 05/06/2020
SHEET NO. C002
OF () SHEETS

PLAT OF TOPOGRAPHY



DESIGN CONSIDERATIONS:

1. THE ACCESS ROAD OFF OF JOLIET ROAD IS UNDERSTOOD TO BE AN EASEMENT FOR ACCESS TO THE PROPERTY WEST OF THE SITE.
2. ADDITIONAL SURVEY WILL BE REQUIRED. IT WAS UNDERSTOOD THAT A PORTION OF THIS PROPERTY WAS SOLD TO THE ADJACENT PROPERTY OWNER NEAR 53RD STREET.
3. SUBGRADE AROUND AND UNDER BUILDINGS TO BE DEMOLISHED, SHALL BE FIELD TESTED AND VERIFIED THAT NO ADDITIONAL REMEDIATION IS NEEDED.

CONTROL POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	REBAR	1868667.31	1119539.08	610.25
2	REBAR	1868532.12	1119607.69	610.70
3	REBAR	1868817.79	1119998.25	611.32
4	REBAR	1868810.65	1119738.41	614.26
5	REBAR	1869033.56	1120135.40	610.17
6	NAIL	1869049.14	1119900.93	611.51
7	REBAR	1868838.02	1120070.19	611.00
8	REBAR	1868216.03	1119477.85	615.06
9	CHISELED X	1868343.19	1119394.77	618.02

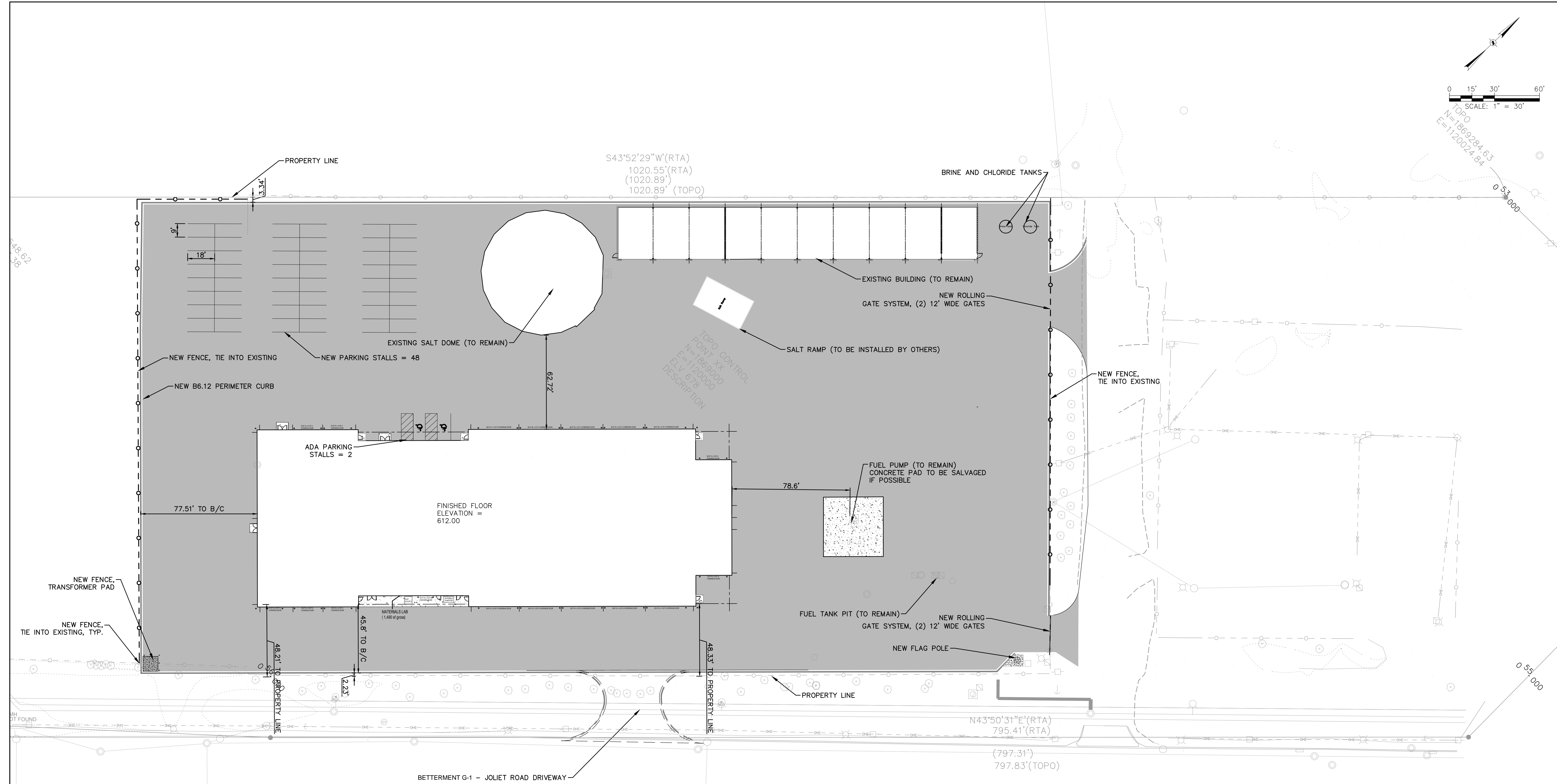
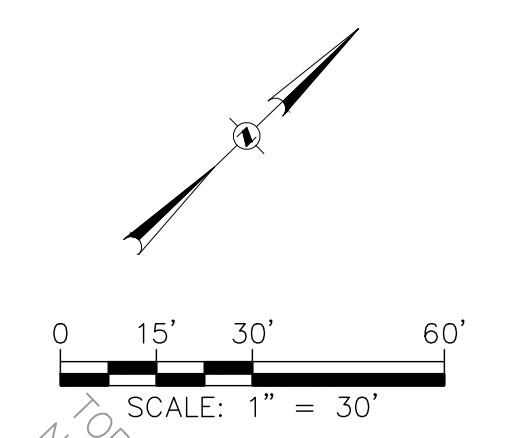
BENCH MARK:

EAST BONNET BOLT ON FIRE HYDRANT +/- 200 FEET WEST OF DRIVEWAY
 NORTHING = 1868675.03
 EASTING = 1119905.39
 ELEVATION = 612.85

COORDINATES SPC IL EAST NAD 83 ELEVATION (PROJECT-LOCAL)

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>5/6/20</td> <td>FINAL BRIDGING DOCUMENTS</td> </tr> </tbody> </table>	REVISIONS			NO.	DATE	REMARKS	A	5/6/20	FINAL BRIDGING DOCUMENTS	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">DRAWN EJM</td> <td style="width:50%;">PREPARED PMJ</td> </tr> <tr> <td>CHECKED</td> <td>APPROVED</td> </tr> </table>	DRAWN EJM	PREPARED PMJ	CHECKED	APPROVED	<p>GRAEF 8501 West Higgins Road, Suite 280 Chicago, IL 60631-2817 773 / 399 0112 773 / 399 0170 fax www.graef-usa.com</p>	<p>MULLER2 © 2019, Muller & Muller, Ltd. DESIGN FIRM REG. #184-003047</p>	<p>State of Illinois JB PRITZKER, GOVERNOR Illinois Capital Development Board</p>	<p>EXISTING CONDITIONS</p> <p>STEVENSON YARD MAINTENANCE FACILITY BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION) ILLINOIS DEPARTMENT OF TRANSPORTATION MCCOOK, COOK COUNTY, ILLINOIS 60525</p>	<p>PROJECT NO. 650-128-005</p> <p>DATE 05/06/2020</p> <p>SHEET NO. C100</p> <p>OF () SHEETS</p>
REVISIONS																			
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DRAWN EJM	PREPARED PMJ																		
CHECKED	APPROVED																		



- DESIGN CONSIDERATIONS:
1. THE NEW SALT RAMP IS TO BE BUILT BY OTHERS, BUT WAS CONSIDERED WHEN COMPLETING TURNING MOVEMENTS.
 2. CURB SHOULD BE REVERSE PITCH IN THE NEW LAYOUT.
 3. THE JOLIET ROAD ENTRANCE WAS ALSO CONSIDERED WHEN RUNNING TURNING MOVEMENTS. THIS IS INTENDED TO BE A FUTURE IMPROVEMENT BEYOND THE SCOPE OF THIS PROJECT.

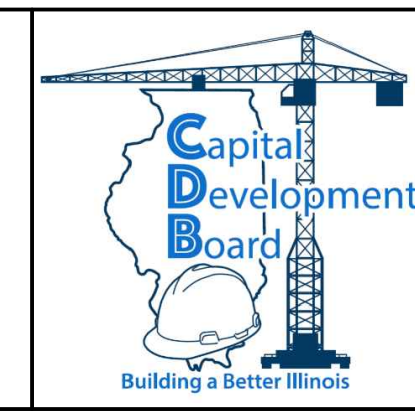
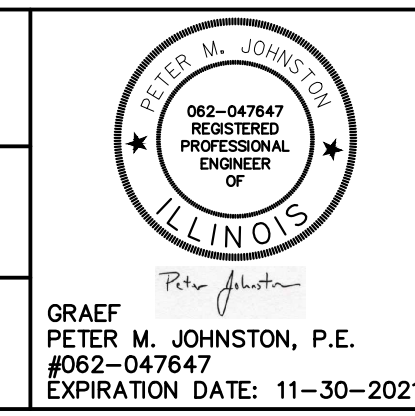
LEGEND

	-NEW ASPHALT PAVEMENT
	-NEW CONCRETE PAVEMENT
	-NEW CURB AND GUTTER

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

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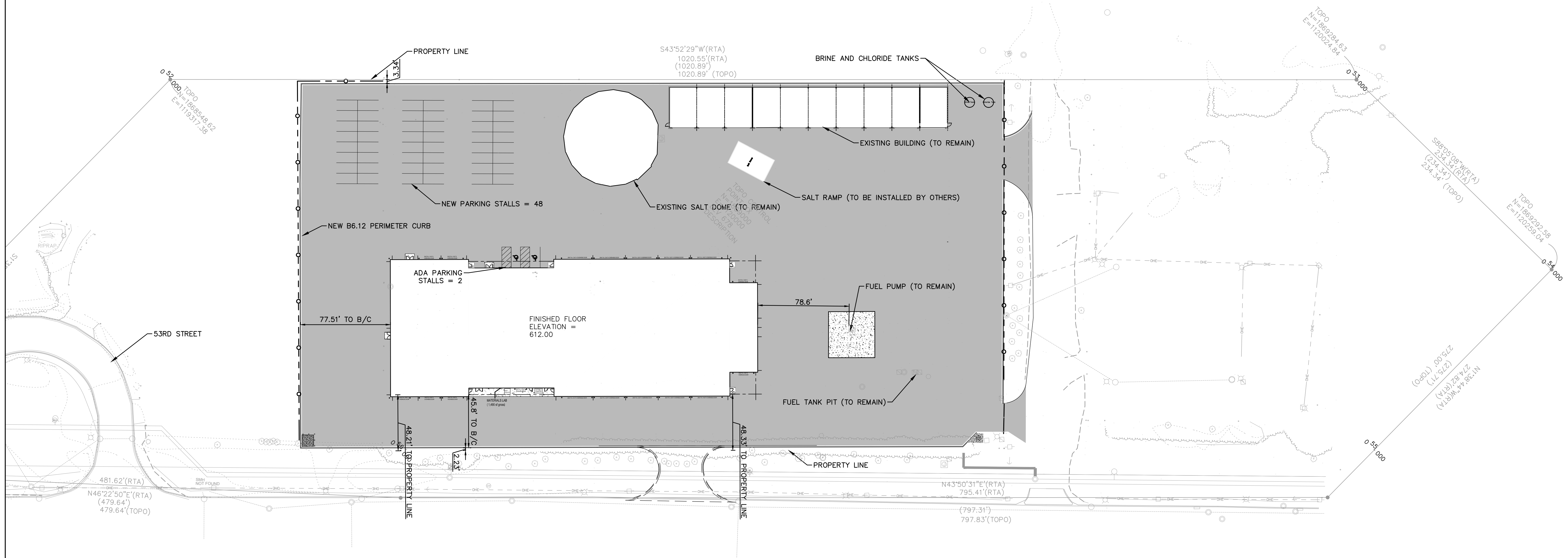
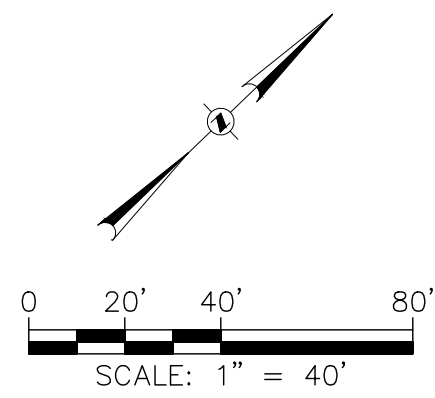
DRAWN EJM	PREPARED PMJ
TRACED	APPROVED
CHECKED	APPROVED



State of Illinois
JB PRITZKER, GOVERNOR
 Illinois Capital Development Board

SITE LAYOUT PLAN
 STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 650-128-005
DATE 05/06/2020
SHEET NO. C200
OF () SHEETS



DESIGN CONSIDERATIONS:

ASIDE FROM THE POTENTIAL JOLIET ROAD FUTURE ACCESS, THERE WAS DISCUSSION ABOUT A SHARED ACCESS TO 53RD STREET. THIS WAS NOT ANALYZED FOR CIRCULATION, BUT MAY BE AN OPTION IN THE FUTURE WITH THE APPROVAL FROM THE ADJACENT PROPERTY OWNER.

LEGEND

- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW CURB AND GUTTER

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TRACED	APPROVED
CHECKED	APPROVED

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PETER M. JOHNSTON, P.E.
#062-047647
EXPIRATION DATE: 11-30-2021

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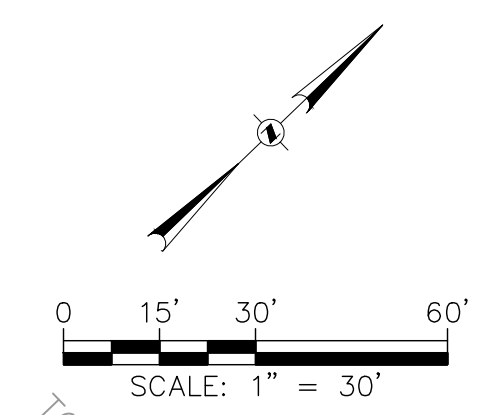
Capital Development Board
Building a Better Illinois

State of Illinois
JB PRITZKER, GOVERNOR
Illinois Capital Development Board

SITE PLAN LARGE

STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

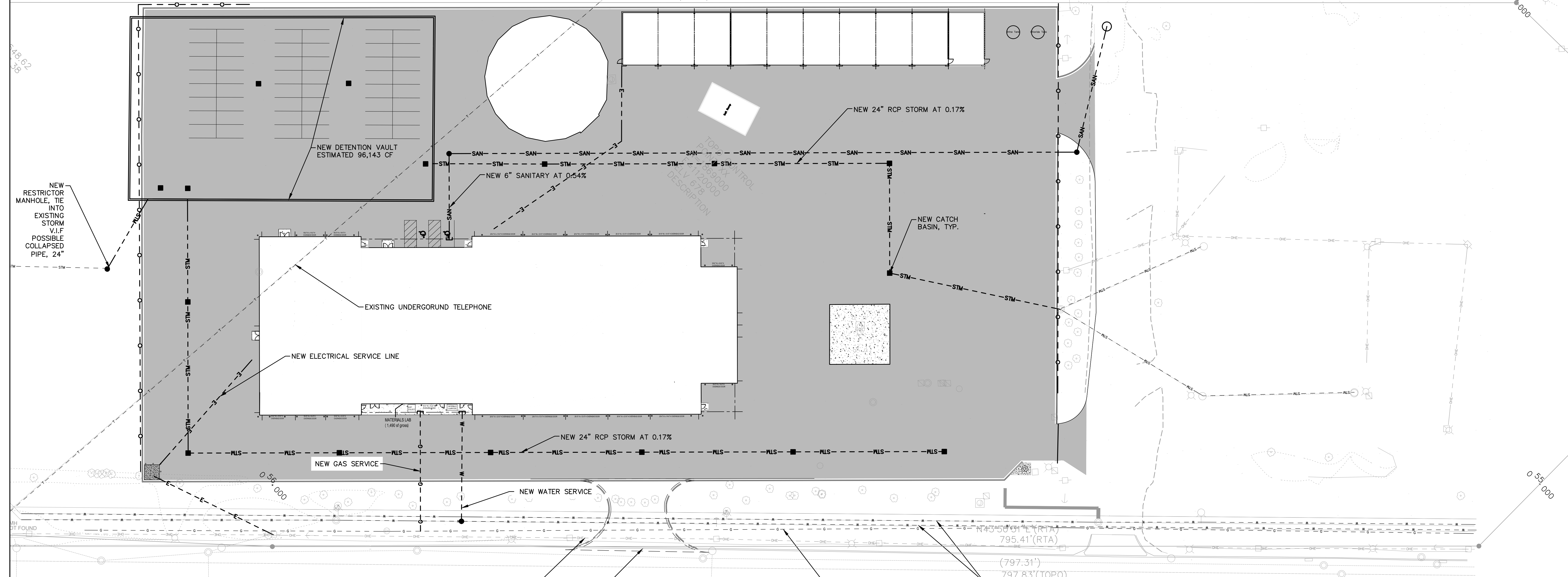
PROJECT NO. 650-128-005
DATE 05/06/2020
SHEET NO. C201
OF () SHEETS



TOPO
 N=1869284.63
 E=1120024.84

S43°52'29"W (RTA)
 1020.55' (RTA)
 (1020.89')
 1020.89' (TOPO)

448.62
38



LEGEND

—STM—	NEW STORM SEWER	—STM—	EXISTING STORM SEWER
—SAN—	NEW SANITARY SEWER	—SAN—	EXISTING SANITARY SEWER
—W—	NEW WATER MAIN	—W—	EXISTING WATER MAIN
—E—	NEW ELECTRICAL	—E—	EXISTING ELECTRICAL
—G—	NEW GAS	—G—	EXISTING GAS
●	NEW MANHOLE	●	EXISTING MANHOLE
■	NEW CATCH BASIN		
□	NEW UTILITY PLUG		

EXISTING OVERHEAD ELECTRIC LINES

EXISTING GAS LINE

EXISTING WATER LINES 16"

DESIGN CONSIDERATIONS:

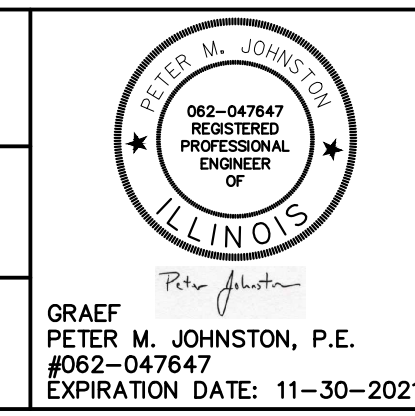
1. THE UTILITIES AND THEIR ELEVATIONS WILL BE A CHALLENGE. DUE TO HOLDING EXISTING GRADES AROUND THE SITE, THERE IS NOT MUCH SPACE FOR UTILITIES IN GENERAL. THE DESIGN TEAM IS PROPOSING REUSING THE OUTLET TO THE CREEK FOR STORM, BUT THIS DOES NOT LEAVE MUCH SPACE FOR UTILITY CONFLICTS, SHOULD ANY COME UP.
2. IF GRAVITY FLOW CANNOT BE MAINTAINED FOR SANITARY OR STORM LINES, LIFT STATIONS MAY BE REQUIRED.
3. THE EXISTING LOCATION OF THE SANITARY LINE HAS BEEN PULLED OFF OF THE AS-BUILT DOCUMENTS, DATED 1965 AND SHOULD BE VERIFIED IN THE FIELD.

4. THE NEW STORM TIE IN ALSO NEEDS TO BE FIELD VERIFIED. THE DEEP TUNNEL PROJECT WAS ON-GOING AT THE TIME OF TOPOGRAPHIC SURVEY; THUS THE AREA WAS NOT VERIFIED. IT WAS ALSO BROUGHT UP THAT PART OF THIS STORM LINE MAY BE COLLAPSED - CONTRACTOR SHOULD TELEWISE TO VERIFY.
5. THE STORM VAULT SIZE IS ESTIMATED TO BE 96,143 CF BASED ON THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO'S WMO SCHEDULE D. ADDITIONAL COORDINATION WITH MWRD WILL BE REQUIRED WHEN COMPLETING THE DESIGN. FINAL PIPE SIZING AND DETENTION VOLUME MAY VARY UPON FINAL DESIGN CALCULATIONS.
6. UTILITY TRENCHES SHALL BE LINED WITH AN ENGINEERED BARRIER MEETING THE ENVIRONMENTAL CONSULTANT'S REQUIREMENTS.

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

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DRAWN E.J.M.	PREPARED P.M.J.
TRACED	APPROVED
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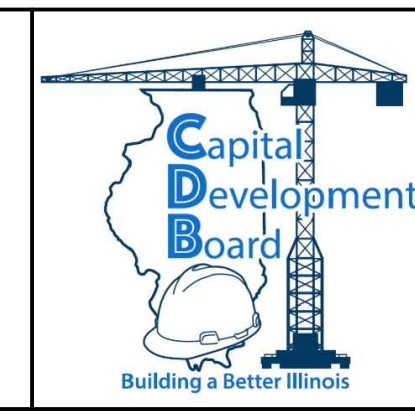


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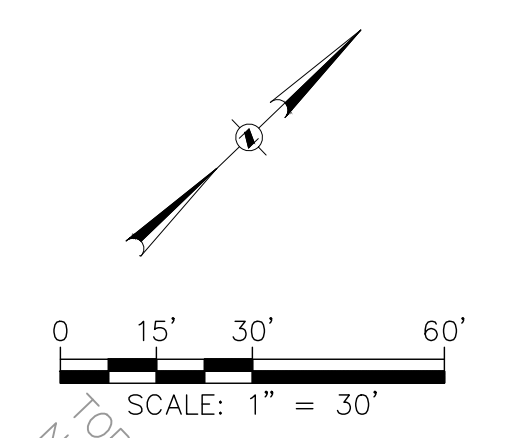


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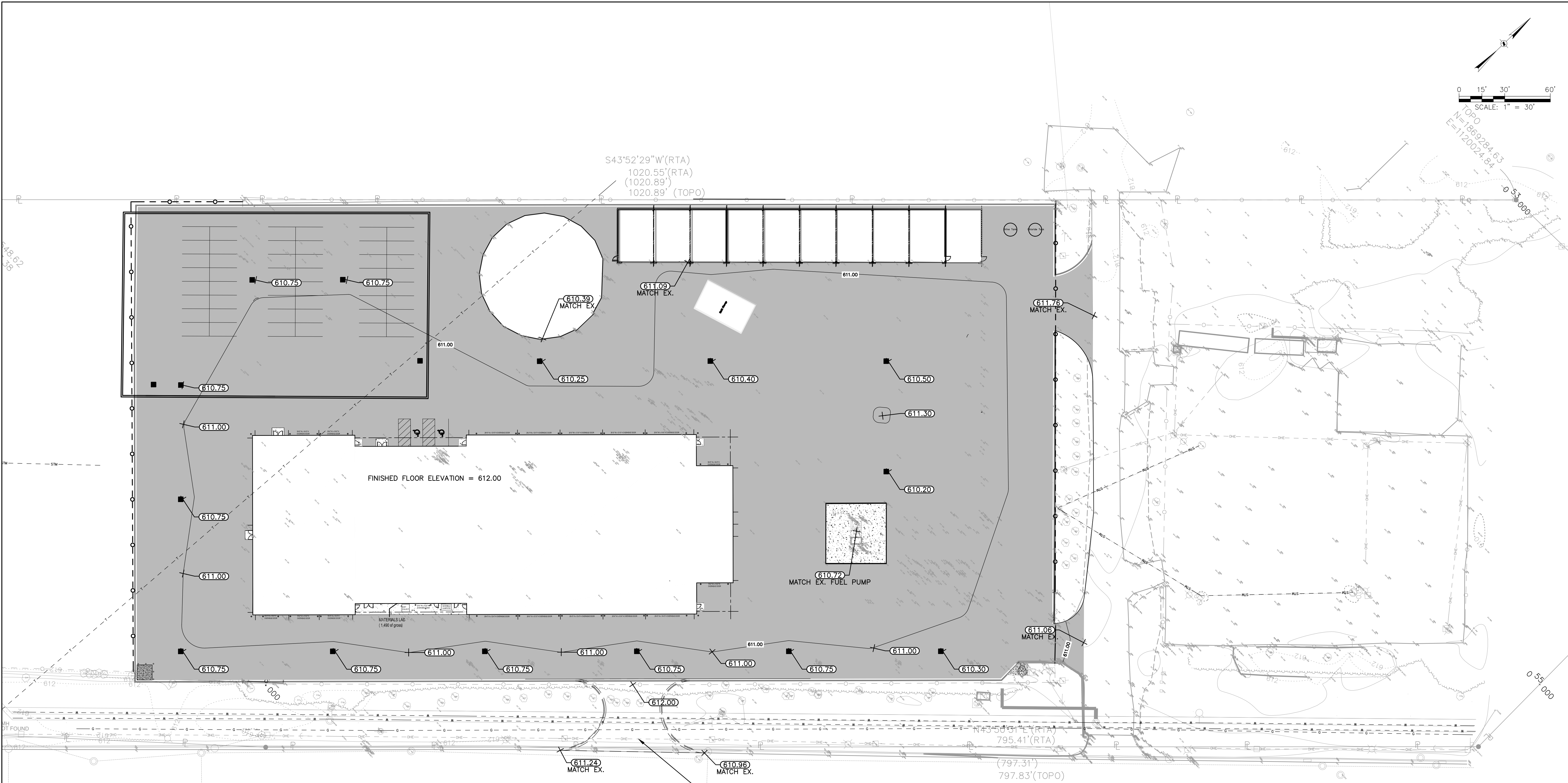
SITE UTILITY PLAN

STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 650-128-005
DATE 05/06/2020
SHEET NO. C300
OF () SHEETS



TOPO
 N=1869284.63
 E=1120024.84



DESIGN CONSIDERATIONS:

- ELEVATIONS ARE GOING TO BE A CHALLENGE DUE TO THE REQUIREMENT AND NEED TO HOLD SEVERAL EXISTING GRADES AT THE SALT DOME, FUEL PUMP, AND A PORTION OF THE EXISTING BUILDING.
- THERE IS CURRENTLY FLOODING OCCURRING AT EXISTING BUILDING TO REMAIN. THIS AREA, AS WELL AS THE SALT DOME ARE LOW POINTS ON THE SITE AND MAY BE SUSCEPTIBLE TO PERIODIC FLOODING DURING HEAVY EVENTS. ADDITIONAL STORM MODELING WILL BE REQUIRED.

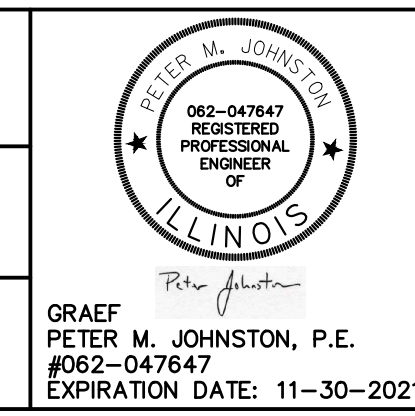
LEGEND

- 100 - EXISTING CONTOUR
- 100 - NEW CONTOUR
- NEW SPOT GRADES

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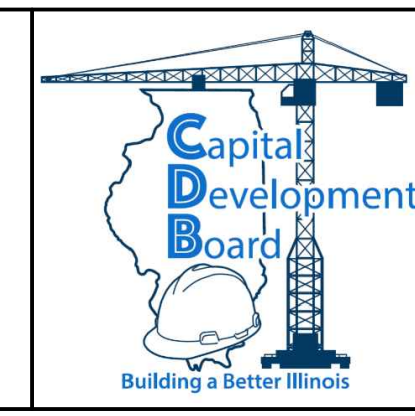


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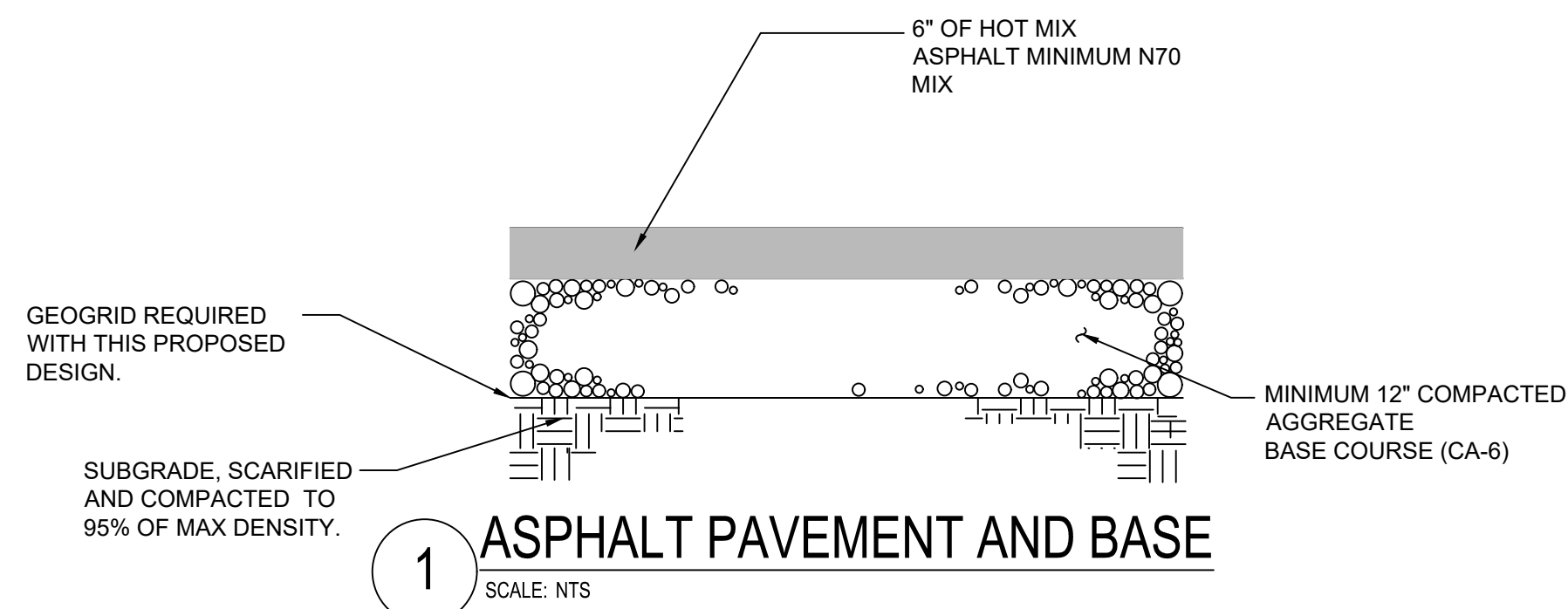


State of Illinois
JB PRITZKER, GOVERNOR
 Illinois Capital Development Board

SITE GRADING PLAN

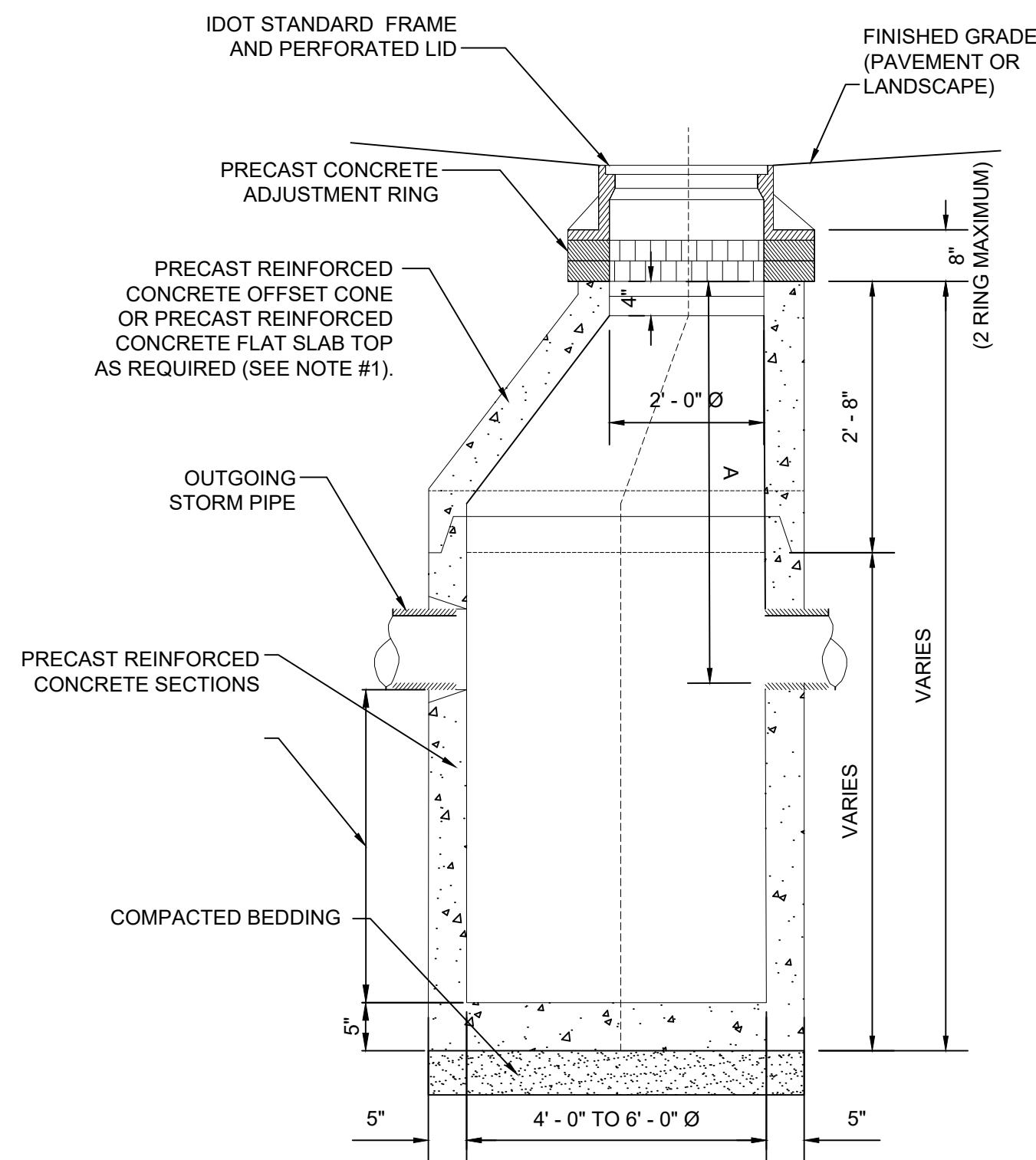
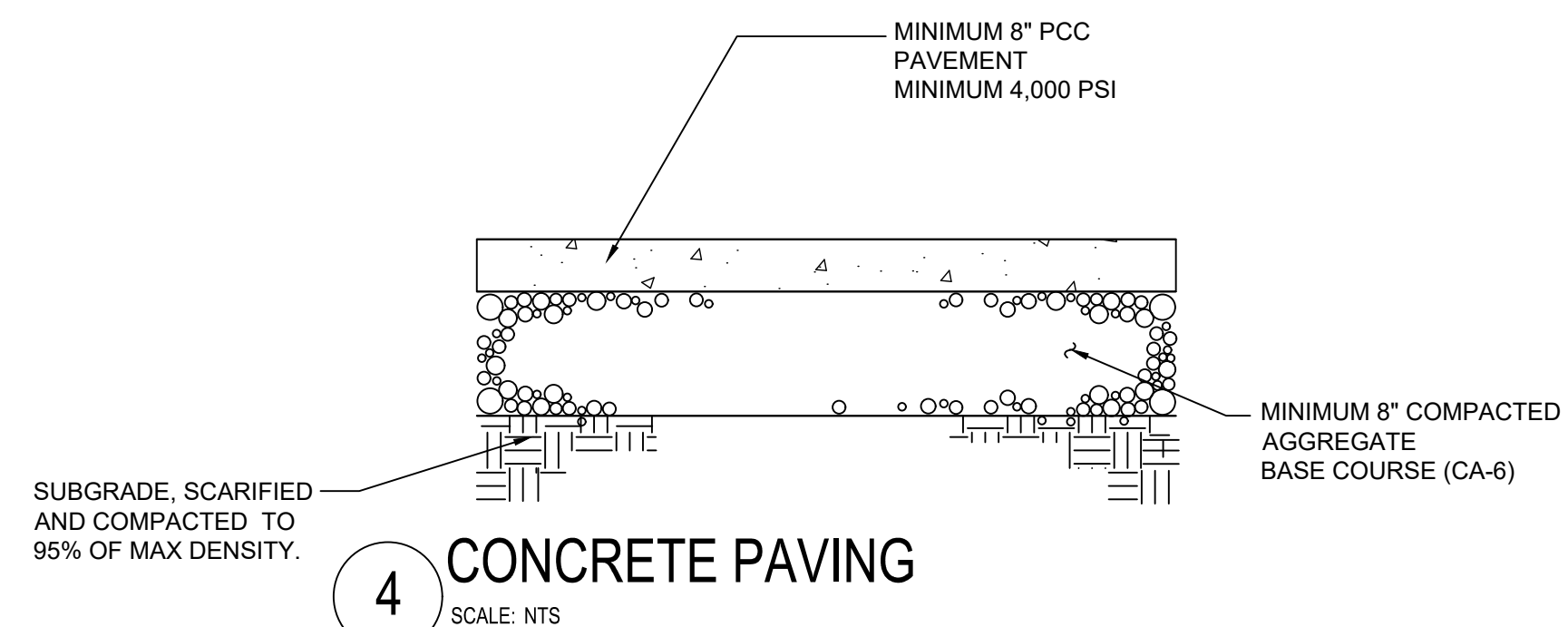
STEVENSON YARD MAINTENANCE FACILITY
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 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 650-128-005
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GEOGRID REQUIREMENTS

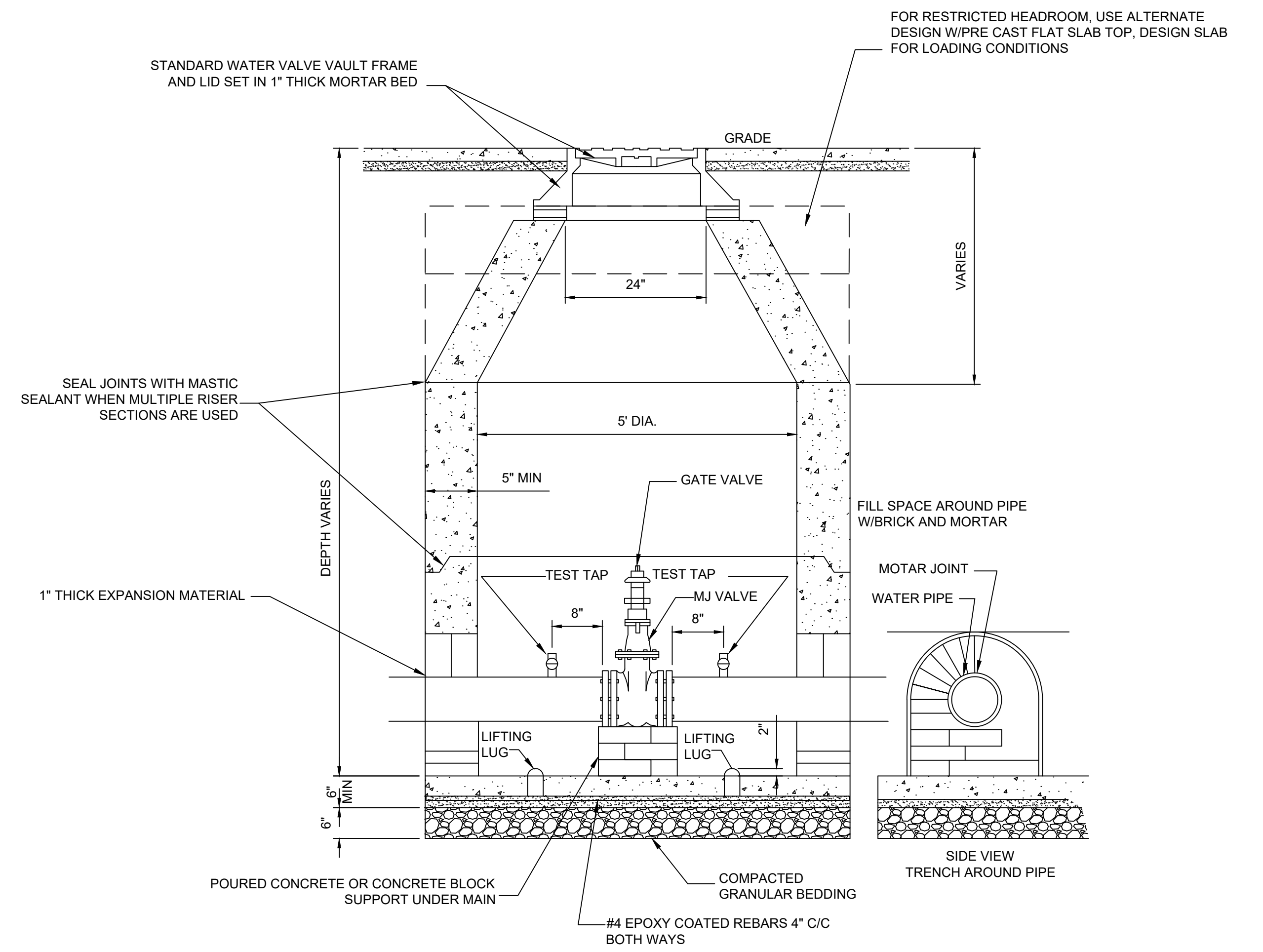
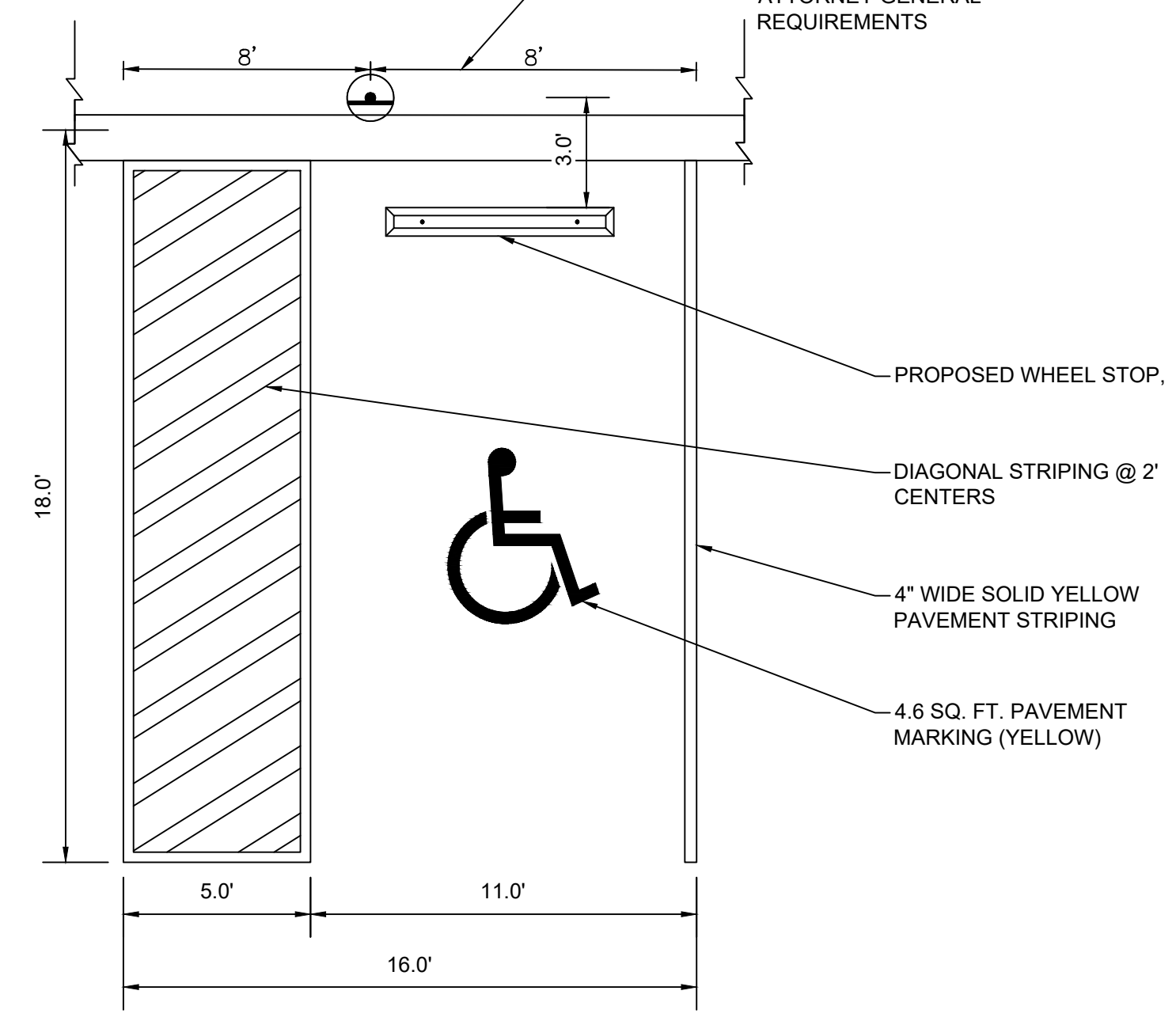
- JUNCTION EFFICIENCY, % 93 (PER ASTM D4759-02)
- ISOTROPIC STIFFNESS RATIO 0.6 (PER ASTM D4759-02)
- RADIAL STIFFNESS AT LOW STRAIN, KN/M @ 0.5% STRAIN (LB/FT) 300 (20,850)
- RADIAL STIFFNESS TESTING IN ACCORDANCE WITH ASTM D6637-10.
- RESISTANCE TO LOSS OF LOAD CAPACITY WHEN SUBJECTED TO CHEMICALLY AGGRESSIVE ENVIRONMENTS IN ACCORDANCE WITH EPA 9090 IMMERSION TESTING.
- LOAD TRANSFER CAPABILITY DETERMINED IN ACCORDANCE WITH ASTM D6637-1 AND ASTM D7737-11 AND EXPRESSED AS A PERCENTAGE OF TENSILE STRENGTH.
- RESISTANCE TO LOSS OF LOAD CAPACITY WHEN SUBJECTED TO 500 HOURS OF ULTRAVIOLET LIGHT AND AGGRESSIVE WEATHERING IN ACCORDANCE WITH ASTM D4355-05.



2 STORM CATCH BASIN

SCALE: NTS

ADA ACCESSIBLE PARKING STALL SIGNAGE BUILDING MOUNTED OR POST MOUNTED - TO BE CENTERED ON THE 16' SPACE PER ILLINOIS ATTORNEY GENERAL REQUIREMENTS



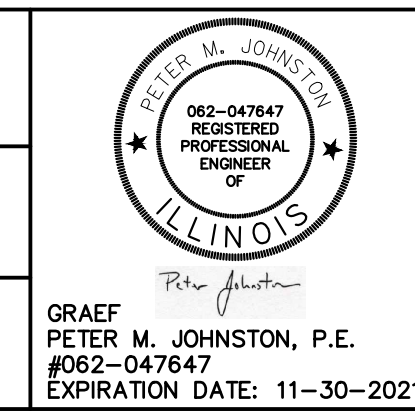
DESIGN CONSIDERATIONS:

- REFER TO MOST RECENT VERSION OF THE GEOTECHNICAL ENGINEERING REPORT FOR PAVEMENT DESIGN CONSIDERATIONS.
- IDOT SRBC 2016, STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS 7TH EDITION, 2014.

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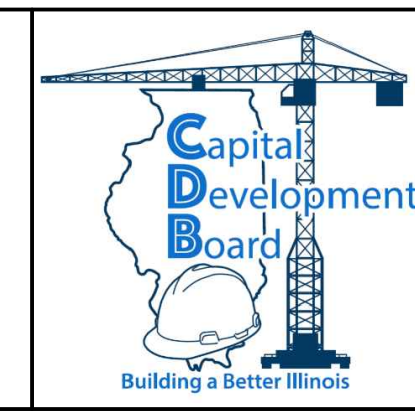
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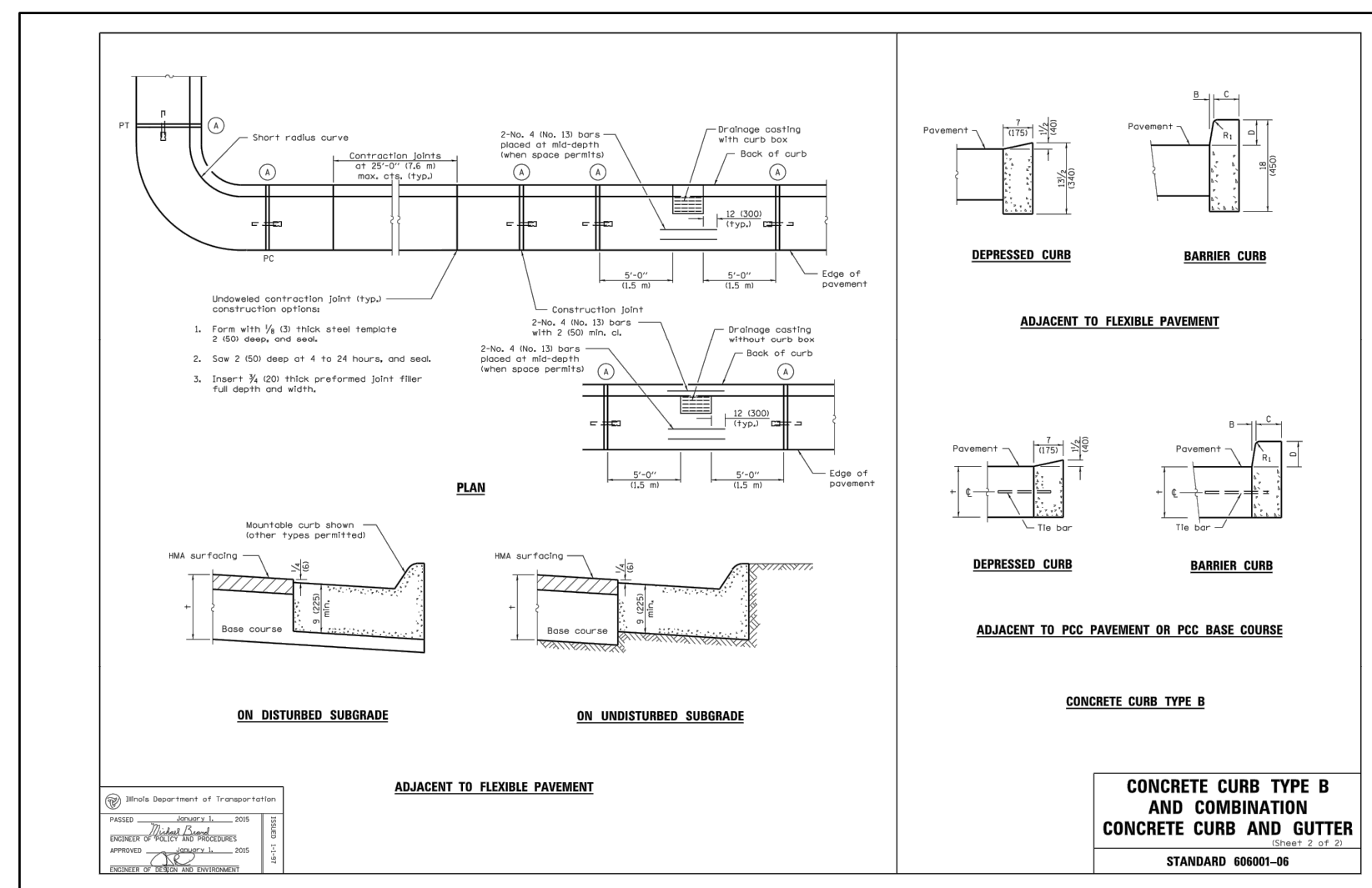
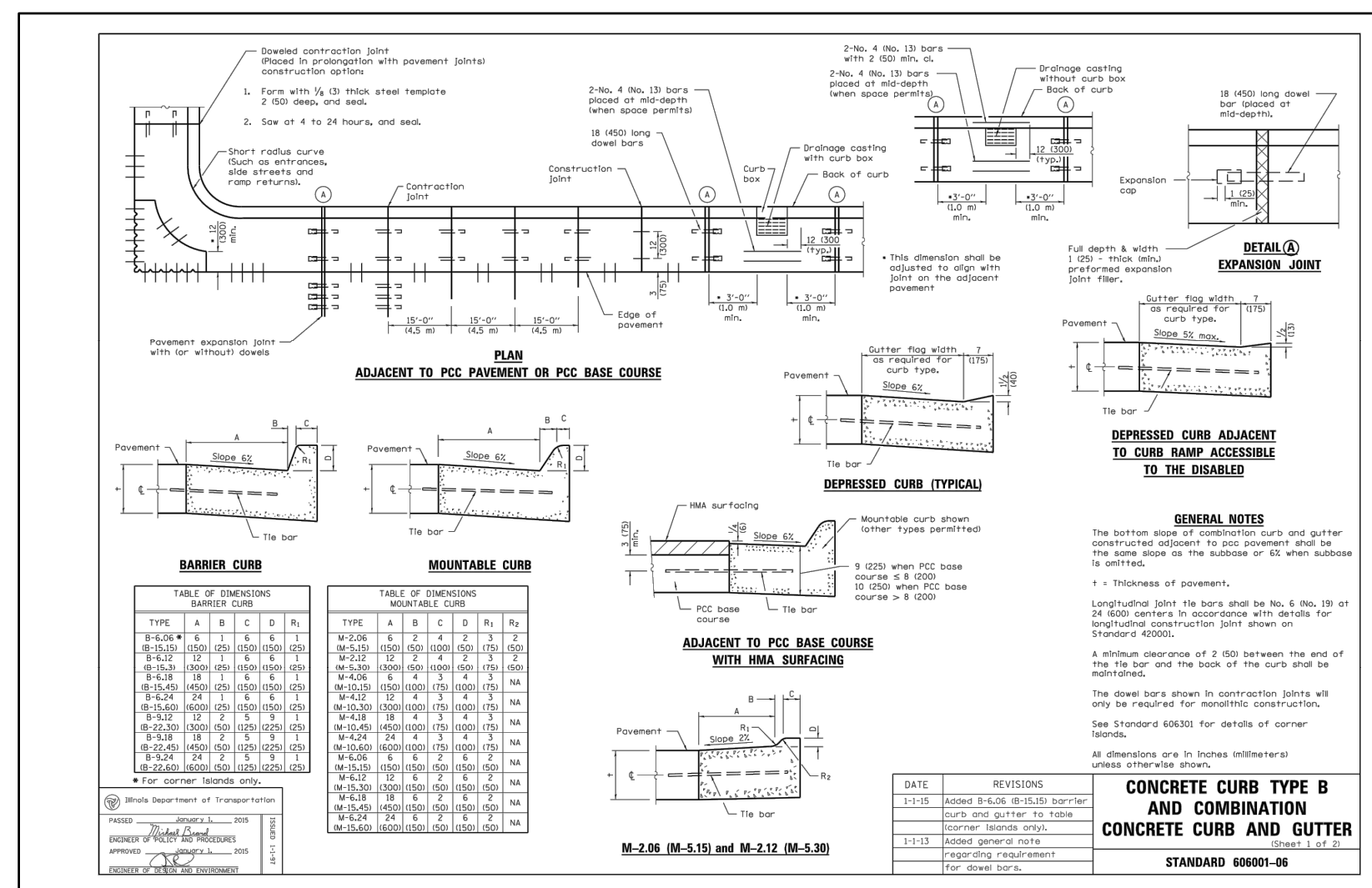
MULLER2
700 N Sangamon
Chicago, IL 60642
312.432.4180
312.432.4184
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DESIGN FIRM REG. #184-003047



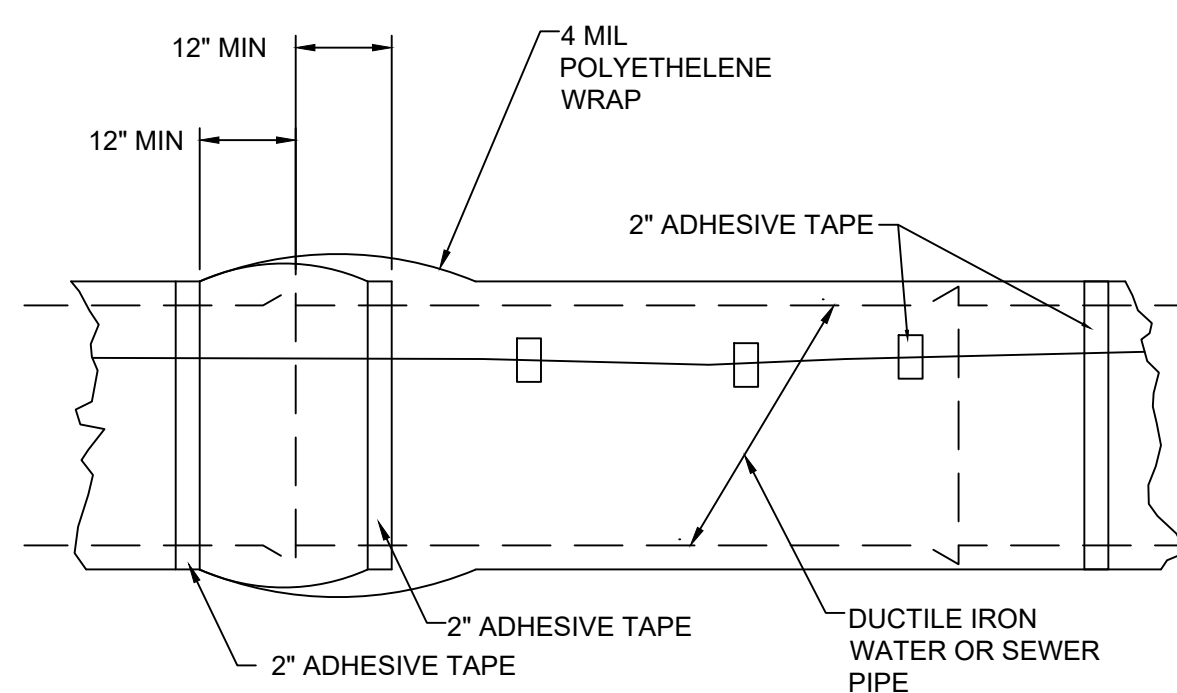
State of Illinois
JB PRITZKER, GOVERNOR
Illinois Capital Development Board

CONSTRUCTION DETAILS
STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 650-128-005
DATE 05/06/2020
SHEET NO. C500
OF () SHEETS



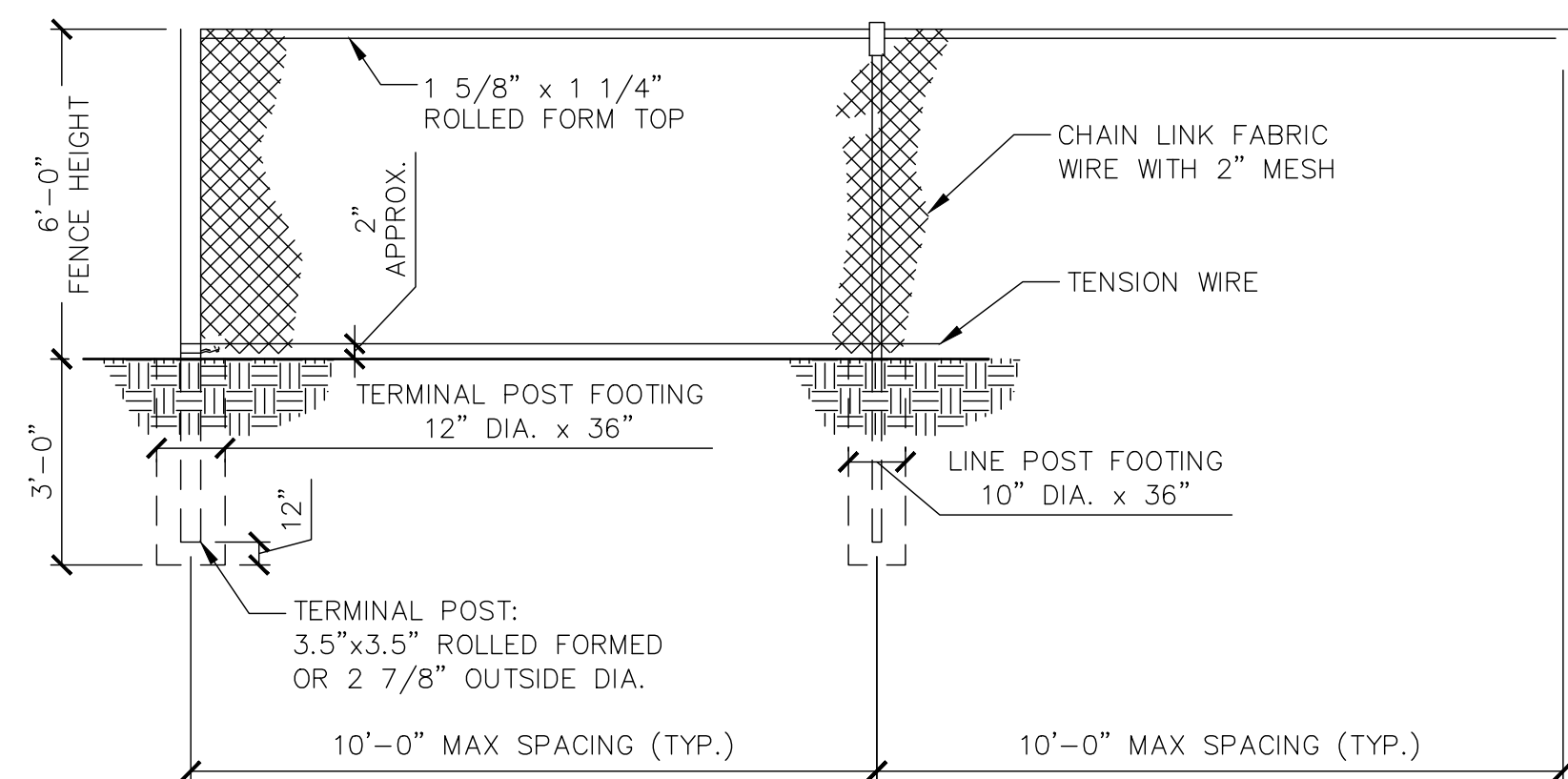
6 CURB AND GUTTER
SCALE: NTS



- NOTES:
 1. ALL DUCTILE IRON SEWER AND WATER PIPE SHALL BE POLY WRAPPED.
 2. USE ONE LENGTH OF POLYETHYLENE TUBE WRAP FOR EACH LENGTH OF PIPE, OVERLAPPED AT PIPE JOINTS AND FOLD EXCESS OVER TOP OF TUBE FOR SLACK REDUCTION.
 3. USE CHART "A" TO SELECT SIZE OF WRAP.

PIPE DIAMETER (IN.)	D.I.P. WITH PUSH-ON JOINTS (IN.)	D.I.P. WITH MECHANICAL JOINTS (IN.)
4	14	16
6	17	20
8	21	24
12	29	30
16	37	27
24	53	53

7 DIP WATER AND SEWER POLY WRAP
SCALE: NTS



8 CHAIN LINK FENCE
SCALE: NTS

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

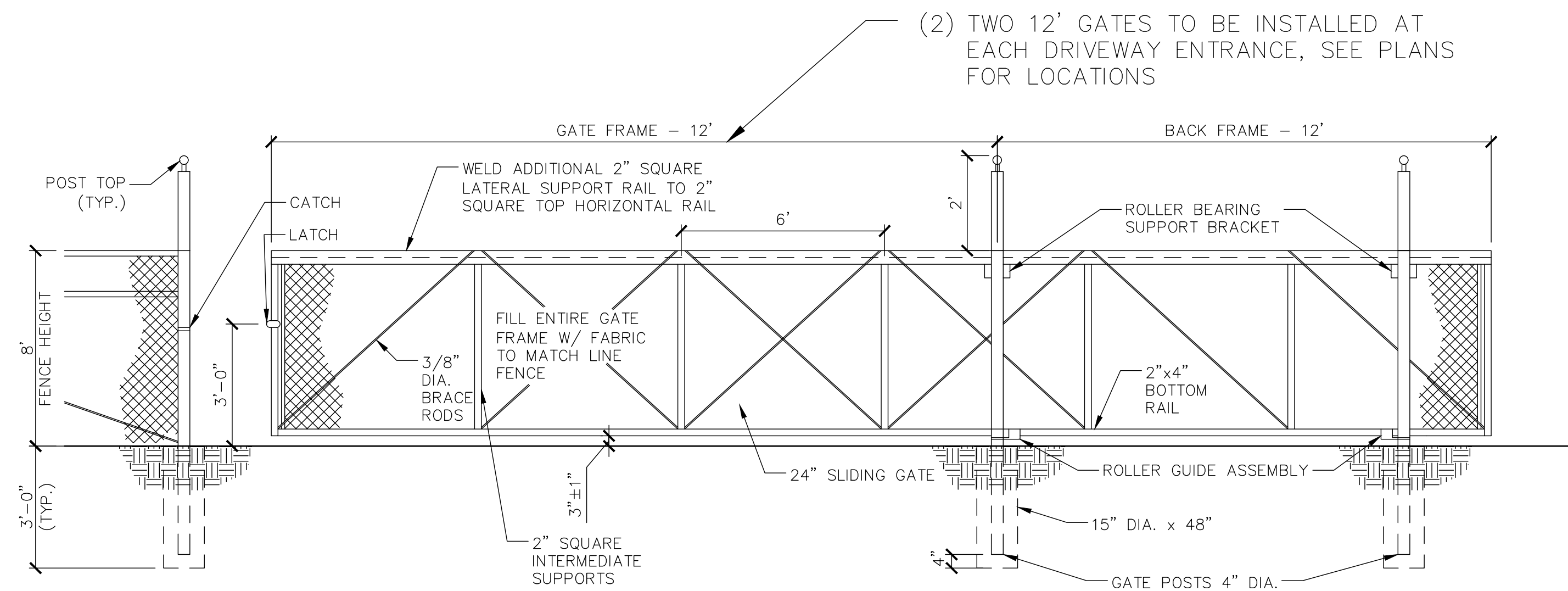
REVISIONS		
NO.	DATE	REMARKS
A	5/6/20	FINAL BRIDGING DOCUMENTS

DRAWN		PREPARED	
EJM	PMJ		
TRACED	APPROVED		
CHECKED	APPROVED		

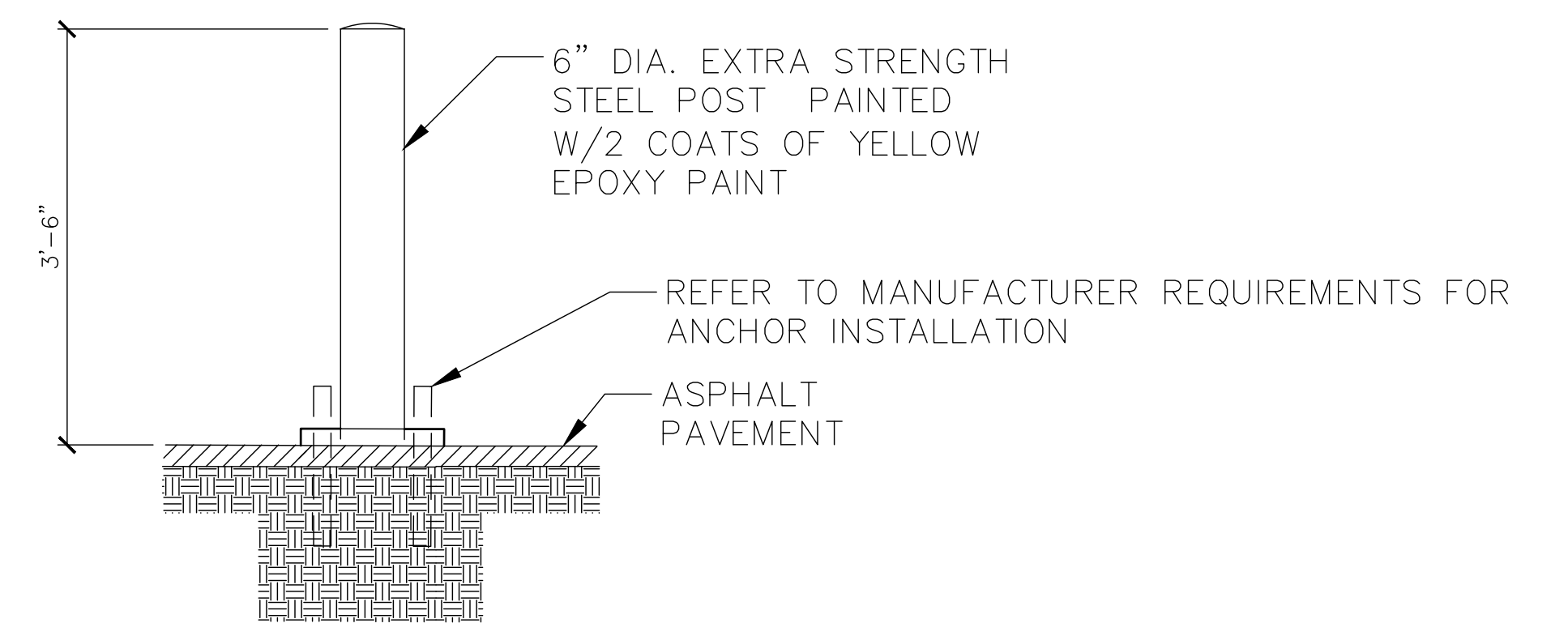
State of Illinois
JB PRITZKER, GOVERNOR
 Illinois Capital Development Board

CONSTRUCTION DETAILS
 STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

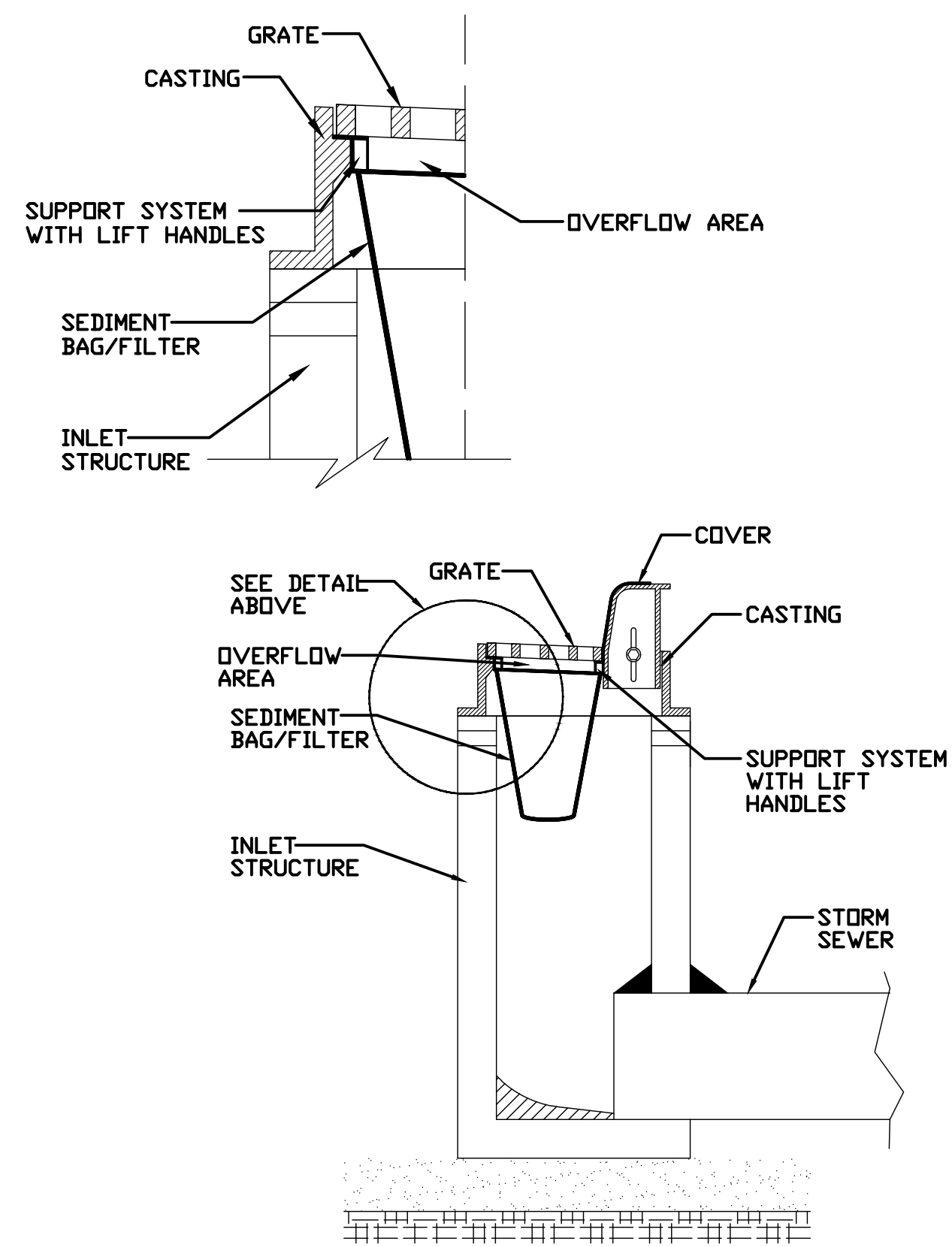
PROJECT NO. 650-128-005
DATE 05/06/2020
SHEET NO. C501
OF () SHEETS



9 SLIDING GATE DETAIL RH AND LH OPERATIONAL
SCALE: NTS



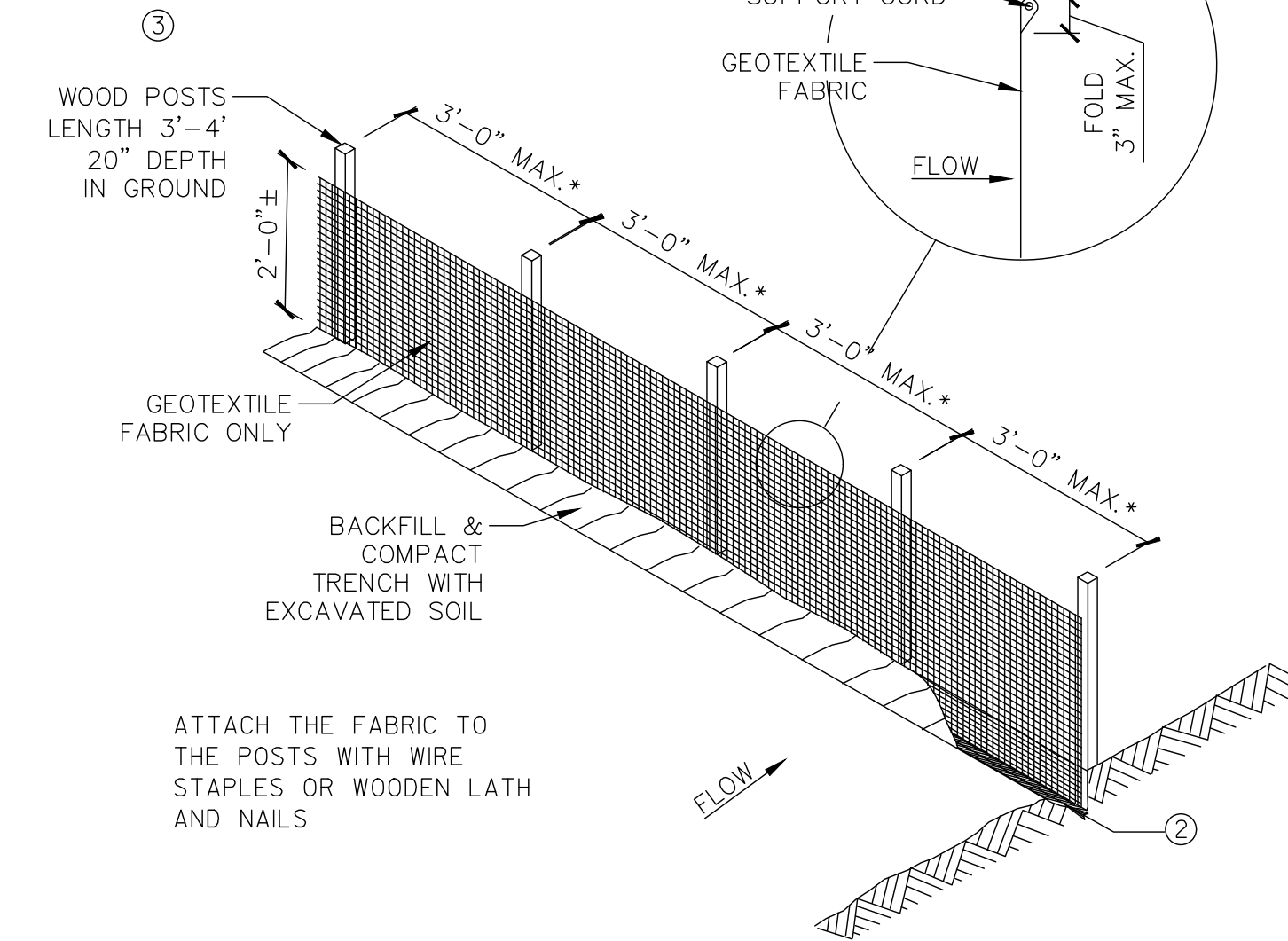
10 BOLLARD
SCALE: NTS



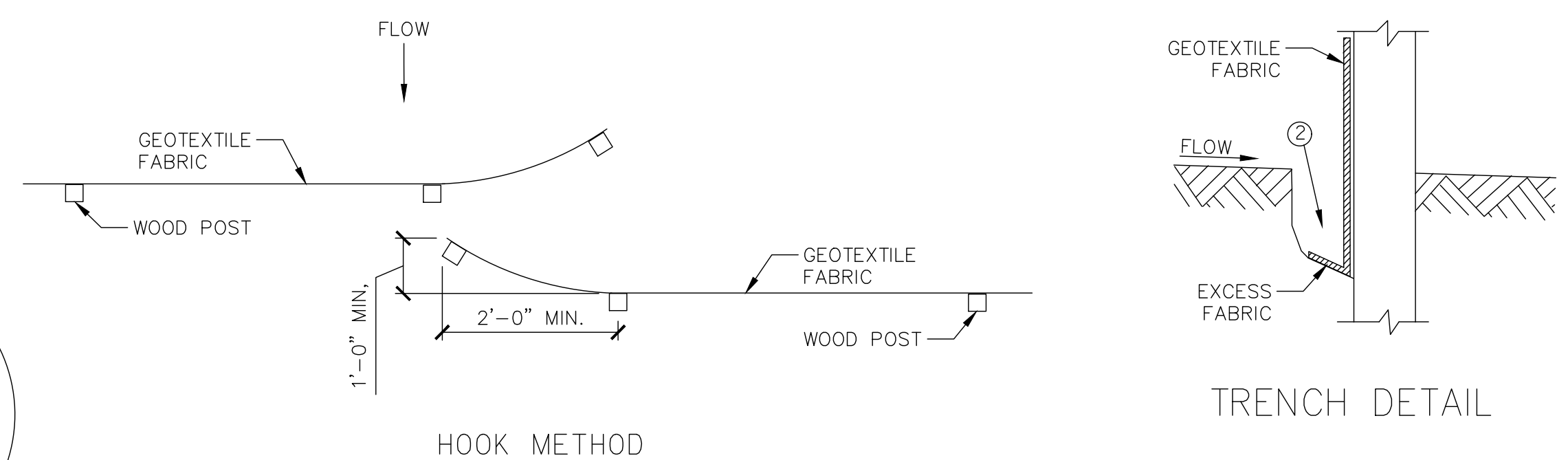
11 INLET PROTECTION
SCALE: NTS

- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

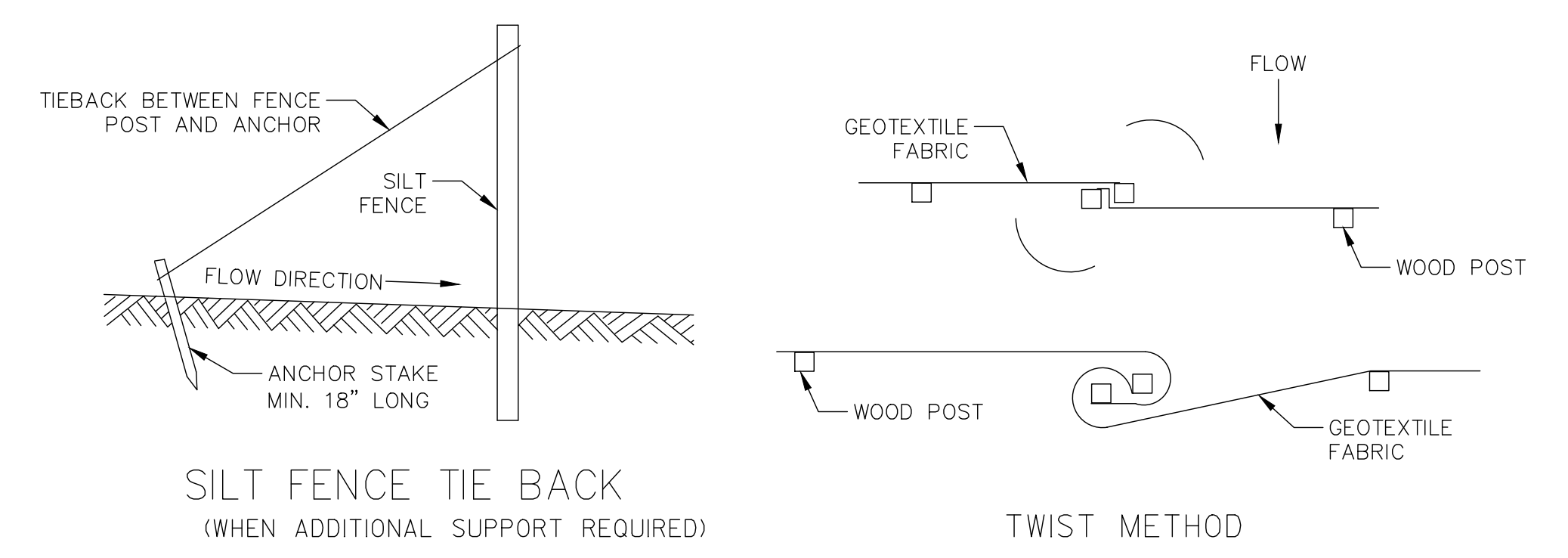
NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS



*NOTE: 8'-0\"/>



JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK
(WHEN ADDITIONAL SUPPORT REQUIRED)

1 SILT FENCE

12 SILT FENCE
SCALE: NTS

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REVISIONS		
NO.	DATE	REMARKS
A	5/6/20	FINAL BRIDGING DOCUMENTS

DRAWN		PREPARED	
TRACED	APPROVED	CHECKED	APPROVED

State of Illinois
JB PRITZKER, GOVERNOR
Illinois Capital Development Board

CONSTRUCTION DETAILS

STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 650-128-005
DATE 05/06/2020
SHEET NO. C502
OF () SHEETS

Illinois Environmental Protection Agency
 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Division of Water Pollution Control
Notice of Intent (NOI) for General Permit
to Discharge Storm Water Associated with Construction Site Activities

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at the above address.

For Office Use Only
 Permit No. ILR10 _____

OWNER INFORMATION
 Company/Owner Name: _____
 Mailing Address: _____ Phone: _____
 City: _____ State: _____ Zip: _____ Fax: _____
 Contact Person: _____ E-mail: _____
 Owner Type (select one) _____ MS4 Community: Yes No

CONTRACTOR INFORMATION
 Contractor Name: _____
 Mailing Address: _____ Phone: _____
 City: _____ State: _____ Zip: _____ Fax: _____

CONSTRUCTION SITE INFORMATION
 Select One: New Change of information for: ILR10 _____
 Project Name: _____ County: _____
 Street Address: _____ City: _____ IL Zip: _____
 Latitude: _____ Longitude: _____
 (Deg) (Min) (Sec) (Deg) (Min) (Sec) Section Township Range
 Approximate Construction Start Date _____ Approximate Construction End Date _____
 Total size of construction site in acres: _____
 If less than 1 acre, is the site part of a larger common plan of development?
 Yes No **Fee Schedule for Construction Sites:**
 Less than 5 acres - \$250
 5 or more acres - \$750

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
 Has the SWPPP been submitted to the Agency? Yes No
 (Submit SWPPP electronically to:)
 Location of SWPPP for viewing: Address: _____ City: _____
 SWPPP contact information: _____ Inspector qualifications: _____
 Contact Name: _____
 Phone: _____ Fax: _____ E-mail: _____
 Project inspector, if different from above _____ Inspector qualifications: _____
 Inspector's Name: _____
 Phone: _____ Fax: _____ E-mail: _____

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/9). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

TYPE OF CONSTRUCTION (select one)
 Construction Type _____
 SIC Code: _____
 Type a detailed description of the project: _____

HISTORIC PRESERVATION AND ENDANGERED SPECIES COMPLIANCE
 Has the project been submitted to the following state agencies to satisfy applicable requirements for compliance with Illinois law on:
 Historic Preservation Agency Yes No
 Endangered Species Yes No

RECEIVING WATER INFORMATION
 Does your storm water discharge directly to: Waters of the State or Storm Sewer
 Owner of storm sewer system: _____
 Name of closest receiving water body to which you discharge: _____

Mail completed form to: Illinois Environmental Protection Agency
 Division of Water Pollution Control
 Attn: Permit Section Post Office Box
 19276 Springfield, Illinois 62794-9276
 or call (217) 782-0610
 FAX: (217) 782-9891

Or submit electronically to: _____

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition, I certify that the provisions of the permit, including the development and implementation of a storm water pollution prevention plan and a monitoring program plan, will be complied with.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Owner Signature: _____ Date: _____
 Printed Name: _____ Title: _____

INSTRUCTIONS FOR COMPLETION OF CONSTRUCTION ACTIVITY NOTICE OF INTENT (NOI) FORM

Submit original, electronic or facsimile copies. Facsimile and/or electronic copies should be followed-up with submission of an original signature copy as soon as possible. Please write "copy" under the "For Office Use Only" box in the upper right hand corner of the first page.

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at:
 Illinois Environmental Protection Agency/Division of Water Pollution Control/Permit Section/Post Office Box 19276/Springfield, Illinois 62794-9276 or call (217) 782-0610
 FAX: (217) 782-9891
 Or submit electronically to: _____
Reports must be typed or printed legibly and signed.

Any facility that is not presently covered by the General NPDES Permit for Storm Water Discharges From Construction Site Activities is considered a new facility.

If this is a change in your facility information, renewal, etc., please fill in your permit number on the appropriate line, changes of information or permit renewal notifications do not require a fee.

NOTE: FACILITY LOCATION IS NOT NECESSARILY THE FACILITY MAILING ADDRESS, BUT SHOULD DESCRIBE WHERE THE FACILITY IS LOCATED.

Use the formats given in the following examples for correct form completion.

Example Format
 Section 12 1 or 2 numerical digits/Township 12N 1 or 2
 numerical digits followed by "N" or "S"/Range 12W 1 or 2 numerical
 digits followed by "E" or "W"

For the Name of Closest Receiving Waters, do not use terms such as ditch or channel. For unnamed tributaries, use terms which include at least a named main tributary such as "Unnamed Tributary to Sugar Creek to Sangamon River."

Submission of initial fee and an electronic submission of Storm Water Pollution Prevention Plan (SWPPP) for Initial Permit prior to the Notice of Intent being considered complete for coverage by the ILR10 General Permits. Please make checks payable to: Illinois EPA at the above address.

Construction sites with less than 5 acres of land disturbance - fee is \$250.
 Construction sites with 5 or more acres of land disturbance - fee is \$750.

SWPPP should be submitted electronically to: . When submitting electronically, use Project Name and City as indicated on NOI form.

13 IEPA NOI FORM
 SCALE: NTS

Illinois Environmental Protection Agency
 Bureau of Water • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control
NOTICE OF TERMINATION (NOT)
of Coverage under the General Permit for Storm Water Discharges Associated with
Construction Site Activities

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at the above address.

OWNER INFORMATION
 Owner Name: _____
 Owner Type (select one) _____
 Mailing Address: _____ Phone: _____
 City: _____ State: _____ Zip: _____ Fax: _____
 Contact Person: _____ E-mail: _____

CONTRACTOR INFORMATION
 Contractor Name: _____
 Mailing Address: _____ Phone: _____
 City: _____ State: _____ Zip: _____ Fax: _____

CONSTRUCTION SITE INFORMATION
 Facility Name: _____
 Street Address: _____
 City: _____ IL Zip: _____ County: _____
 NPDES Storm Water General Permit Number: ILR10 _____
 Latitude: _____ Longitude: _____
 (Deg) (Min) (Sec) (Deg) (Min) (Sec) Section Township Range

DATE PROJECT HAS BEEN COMPLETED AND STABILIZED: _____

NOTE: Coverage under this permit cannot be terminated without the completion date.
 I certify under penalty of law that disturbed soils at the identified facility have been finally stabilized or that all storm water discharges associated with industrial activity from the identified facility that are authorized by an NPDES general permit have otherwise been eliminated. I understand that by submitting this notice of termination, that I am no longer authorized to discharge storm water associated with industrial activity by the general permit, and that discharging pollutants in storm water associated with industrial activity to Waters of the State is unlawful under the Environmental Protection Act and the Clean Water Act where the discharge is not authorized by an NPDES Permit.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Owner Signature: _____ Date: _____

Mail completed form to: Illinois Environmental Protection Agency
 Division of Water Pollution Control, Attn: Permit Section
 1021 North Grand Avenue East P.O. Box 19276
 Springfield, Illinois 62794-9276 (Do not submit additional documentation unless requested)

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/9). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

GUIDELINES FOR COMPLETION OF NOTICE OF TERMINATION (NOT) FORM

Please adhere to the following guidelines:

Submit original, electronic or facsimile copies. Facsimile and/or electronic copies should be followed-up with submission of an original signature copy as soon as possible.

Submit completed forms to:
 Illinois Environmental Protection Agency/Division of Water Pollution Control, Attn: Permit Section
 1021 North Grand Avenue East/P.O. Box 19276/Springfield, Illinois 62794-9276 or call (217) 782-0610/FAX: (217) 782-9891

Or submit electronically to: _____

Reports must be typed or printed legibly and signed.

NOTE: FACILITY LOCATION IS NOT NECESSARILY THE FACILITY MAILING ADDRESS, BUT SHOULD DESCRIBE WHERE THE FACILITY IS LOCATED.

Use the formats given in the following examples for correct form completion.

Example Format
 Section 12 1 or 2 numerical digits/Township 12N
 1 or 2 numerical digits followed by "N" or "S"/Range 12W
 1 or 2 numerical digits followed by "E" or "W"

Final stabilization has occurred when:

(a) all soil disturbing activities at the site have been completed;
 (b) a uniform perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas not covered by permanent structures; or
 (c) equivalent permanent stabilization measures have been employed.

14 IEPA NOT FORM
 SCALE: NTS

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REVISIONS		
NO.	DATE	REMARKS
A	5/6/20	FINAL BRIDGING DOCUMENTS

DRAWN EJM	PREPARED PMJ
TRACED	APPROVED
CHECKED	APPROVED

PETER M. JOHNSTON
 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
 #062-047647
 EXPIRATION DATE: 11-30-2021

GRAEF
 8501 West Higgins Road,
 Suite 280
 Chicago, IL 60631-2817
 773 / 399 0112
 773 / 399 0170 fax
 www.graef-usa.com

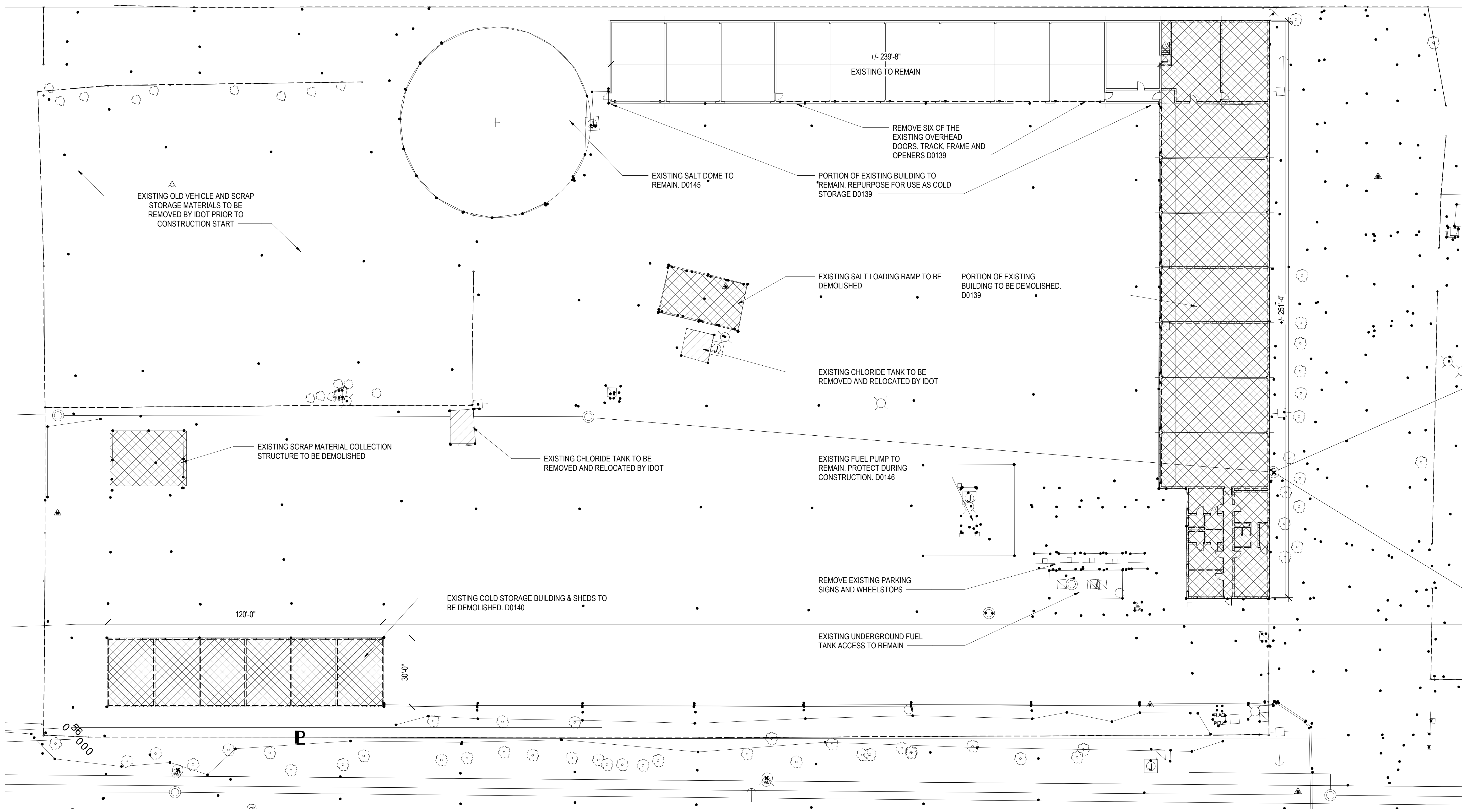
MULLER2
 700 N Sangamon
 Chicago, IL 60642
 t 312.432.4180
 f 312.432.4184
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Capital Development Board
 Building a Better Illinois

State of Illinois
JB PRITZKER, GOVERNOR
Illinois Capital Development Board

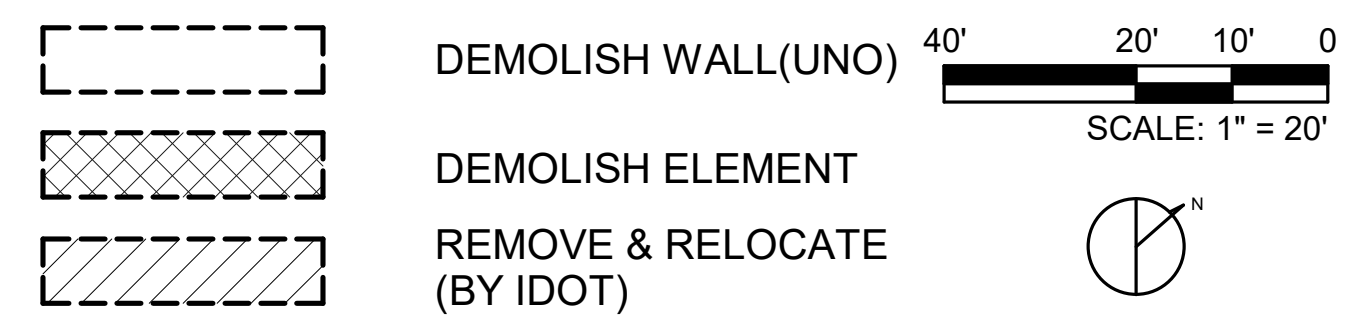
CONSTRUCTION DETAILS
 STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 650-128-005
DATE 05/06/2020
SHEET NO. C503
OF () SHEETS



1 DEMOLITION SITE PLAN
1" = 20'-0"

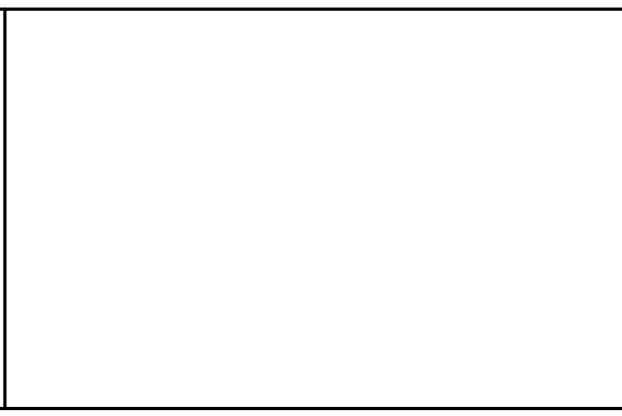
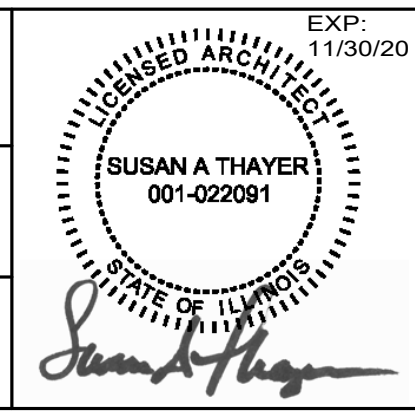
DEMOLITION LEGEND



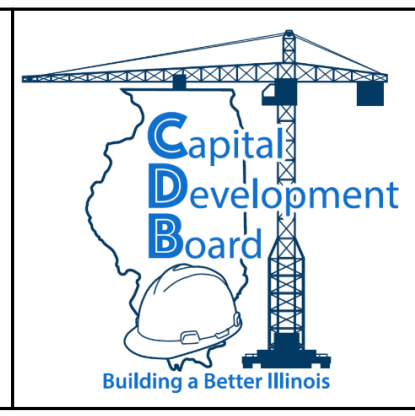
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REVISIONS		
NO.	DATE	REMARKS
A	5/6/20	FINAL BRIDGING DOCUMENTS

DRAWN HW	PREPARED
TRACED	APPROVED
CHECKED ST	APPROVED



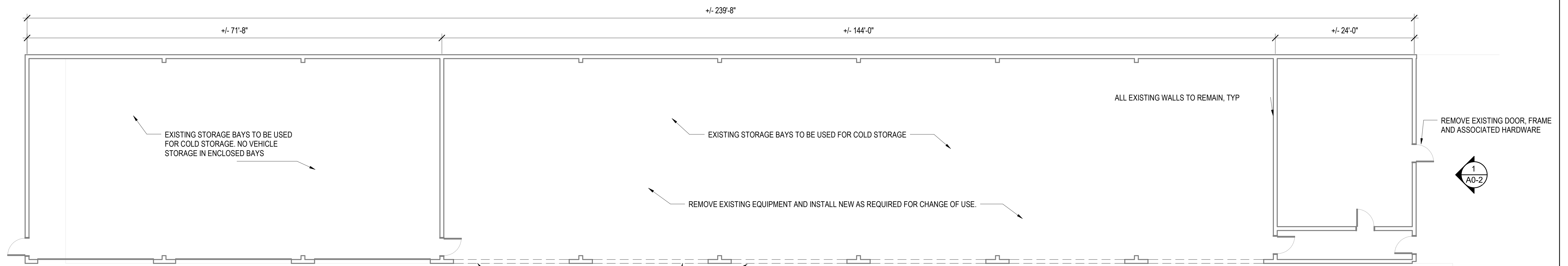
700 N Sangamon
Chicago, IL 60642
312.432.4180
312.432.4184
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DESIGN FIRM REG. #184-003047



State of Illinois
JB PRITZKER, GOVERNOR
Illinois Capital Development Board

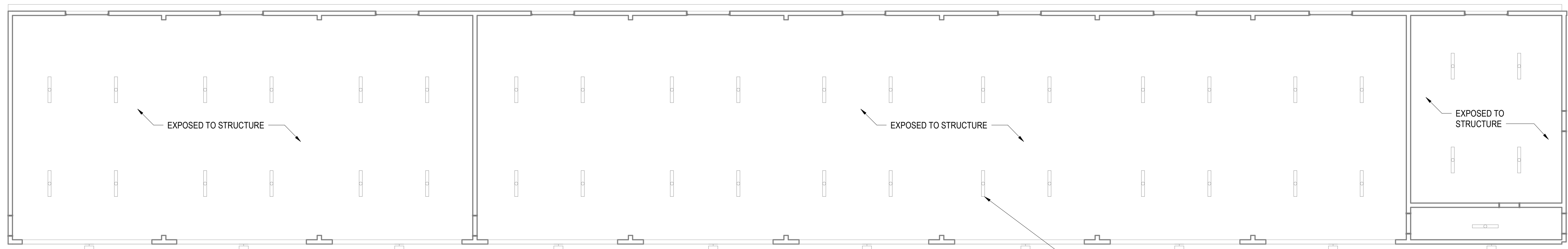
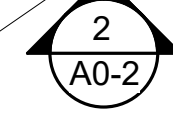
DEMOLITION SITE PLAN
STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO.
630-128-005
DATE
05/06/2020
SHEET NO.
AD1-0
OF () SHEETS

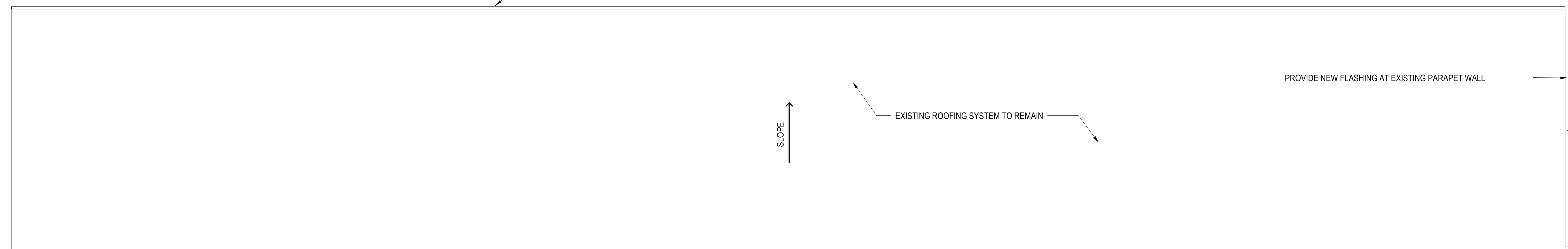


1 COLD STORAGE BUILDING PLAN D0139
1/8" = 1'-0"

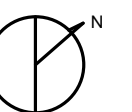
REMOVE EXISTING OVERHEAD DOOR, TRACKS, FRAME AND OPENERS. TYP @ 6 OPENINGS



2 COLD STORAGE REFLECTED CEILING PLAN D0139
1/8" = 1'-0"

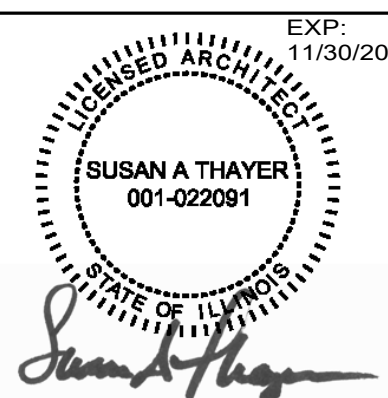


3 COLD STORAGE ROOF PLAN D0139
1/8" = 1'-0"



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REVISIONS			DRAWN	PREPARED	EXP.
NO.	DATE	REMARKS	HW		11/30/20
			TRACED	APPROVED	
			CHECKED	APPROVED	
A	5/6/20	FINAL BRIDGING DOCUMENTS	ST		

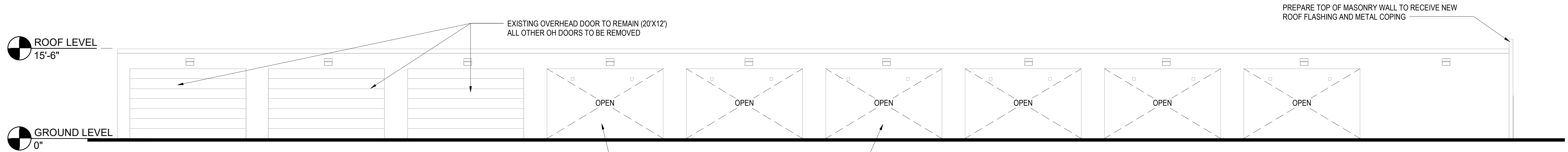


State of Illinois
JB PRITZKER, GOVERNOR
Illinois Capital Development Board

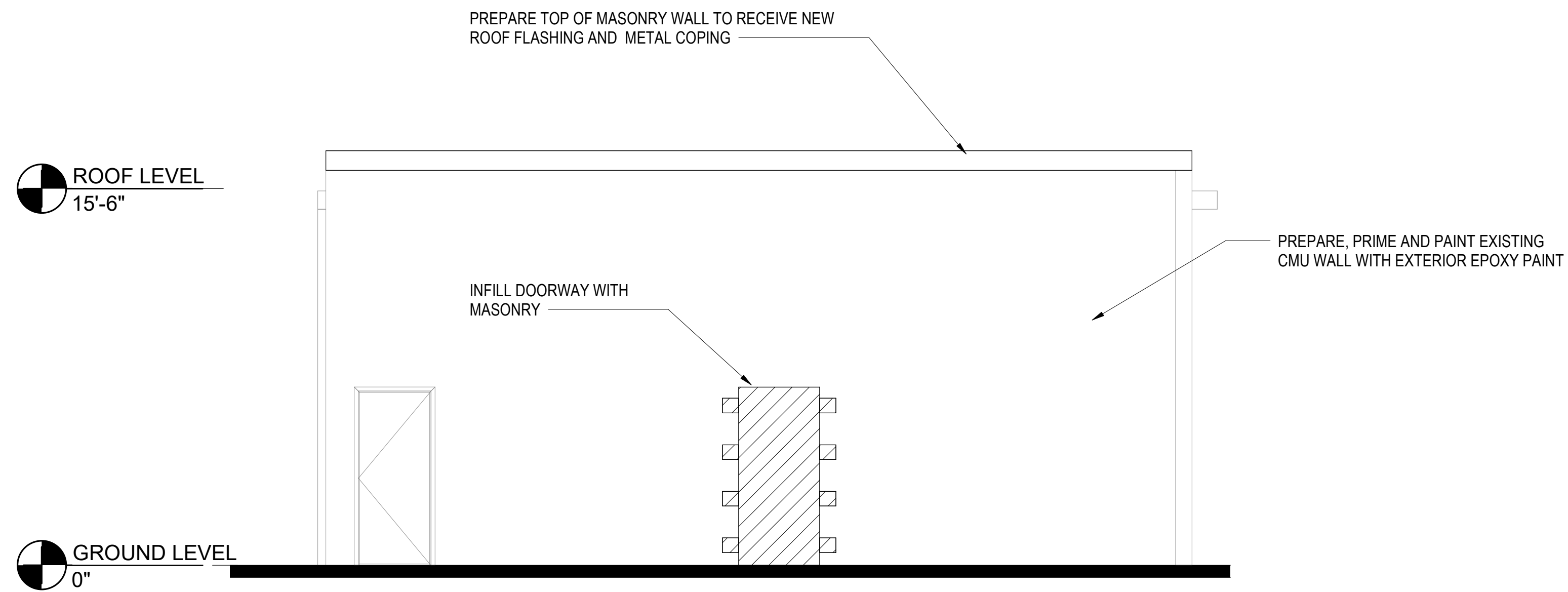
COLD STORAGE BUILDING PLANS

STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

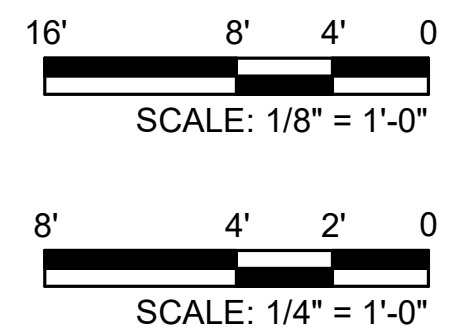
PROJECT NO.
630-128-005
DATE
05/06/2020
SHEET NO.
A0-1
OF () SHEETS



2 SOUTH COLD STORAGE BUILDING ELEVATION
1/8" = 1'-0"

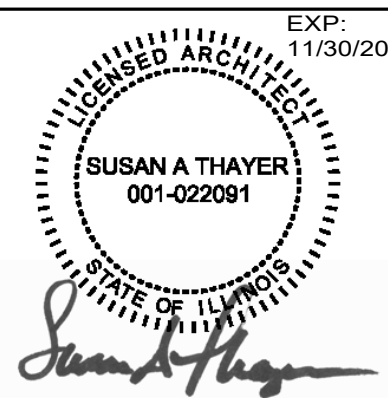


1 EAST COLD STORAGE BUILDING ELEVATION
1/4" = 1'-0"



NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

REVISIONS			DRAWN	PREPARED	EXP.
NO.	DATE	REMARKS	HW		11/30/20
			TRACED	APPROVED	
			CHECKED	APPROVED	
A	5/6/20	FINAL BRIDGING DOCUMENTS	ST		



State of Illinois
JB PRITZKER, GOVERNOR
Illinois Capital Development Board

COLD STORAGE BUILDING ELEVATIONS

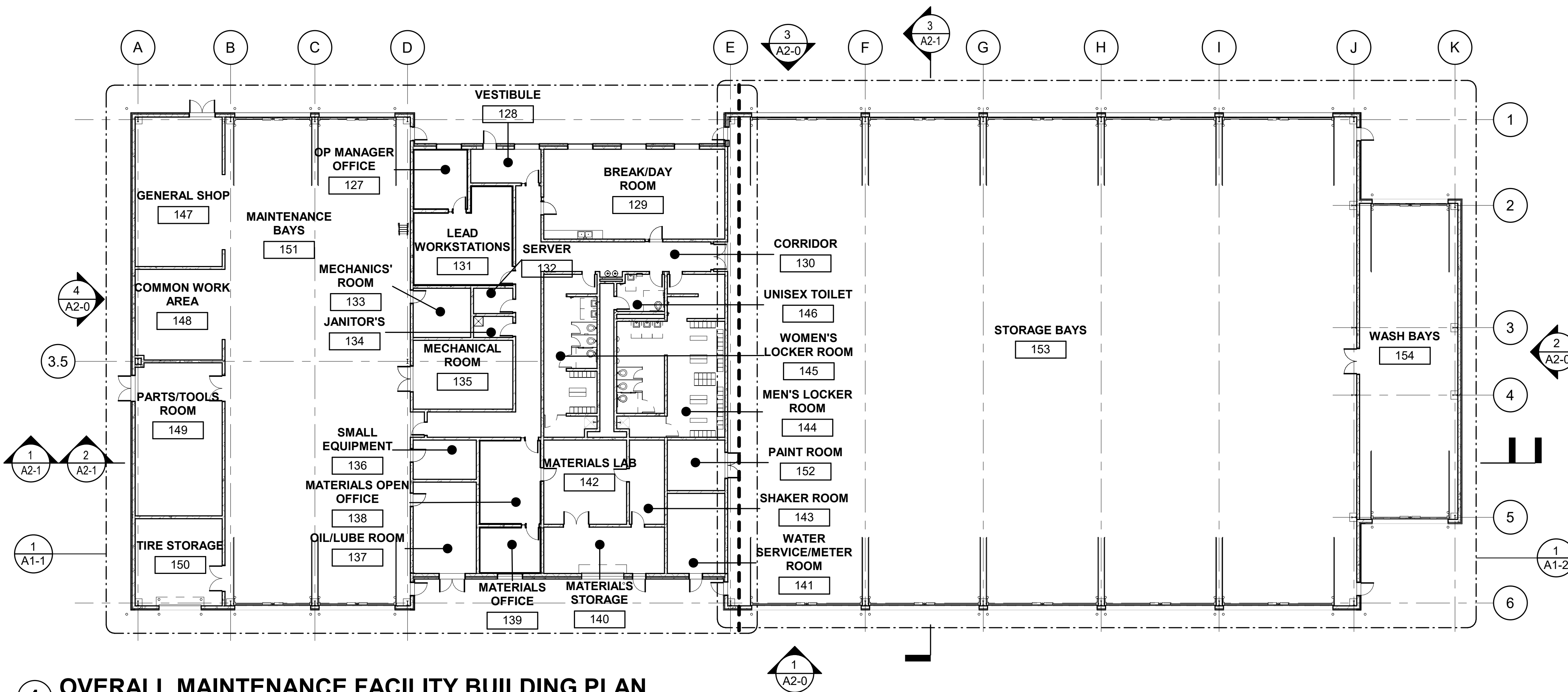
STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO.
630-128-005

DATE
05/06/2020

SHEET NO.
A0-2

OF () SHEETS



1 OVERALL MAINTENANCE FACILITY BUILDING PLAN
1/16" = 1'-0"

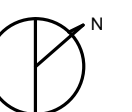
RM NO.	ROOM NAME	FLOOR		WALL		CEILING		NOTES
		FINISH	BASE	MTRL	FINISH	FINISH	HEIGHT	
127	OP MANAGER OFFICE	VCT	VB	GB	PT	ACT	9'-0"	
128	VESTIBULE	VCT	VB	CMU	PT	ACT	9'-0"	
129	BREAK/DAY ROOM	VCT	VB	CMU	PT	ACT	9'-0"	3
130	CORRIDOR	VCT	VB	CMU	PT	ACT	9'-0"	
131	LEAD WORKSTATIONS	VCT	VB	GB	PT	ACT	9'-0"	
132	SERVER	VCT	VB	CMU	PT	EXP	VARIES	
133	MECHANICS' ROOM	SC	EP	CMU	PT	ACT	9'-0"	
134	JANITOR'S CLOSET	EP	EP	CMU	PT	ACT	9'-0"	
135	MECHANICAL ROOM	EP	EP	CMU	PT	EXP	VARIES	
136	SMALL EQUIPMENT	EP	EP	CMU	PT	EXP	VARIES	4,5,8
137	OIL/LUBE ROOM	EP	EP	CMU	PT	EXP	VARIES	5,8
138	MATERIALS OPEN OFFICE	VCT	VB	GB	PT	ACT	9'-0"	
139	MATERIALS OFFICE	VCT	VB	GB	PT	ACT	9'-0"	
140	MATERIALS STORAGE	EP	EP	CMU	PT	EXP	VARIES	
141	WATER SERVICE/METER ROOM	SC	EP	CMU	PT	EXP	VARIES	
142	MATERIALS LAB	EP	EP	CMU	PT	ACT	9'-0"	
143	SHAKER ROOM	EP	EP	CMU	PT	ACT	9'-0"	
144	MEN'S LOCKER ROOM	EP	EP	CMU	PT	ACT/GB	9'-0"	4,5,8,9
145	WOMEN'S LOCKER ROOM	EP	EP	CMU	PT	ACT/GB	9'-0"	4,5,8,9
146	UNISEX TOILET	VCT	VB	CMU	PT	EXP	VARIES	
147	GENERAL SHOP	EP	EP	CMU	PT	EXP	VARIES	1,4,5,6
148	COMMON WORK AREA	EP	EP	CMU	PT	EXP	VARIES	1,4,5,6
149	PARTS/TOOLS ROOM	SC	EP	CMU	PT	EXP	VARIES	8
150	TIRE STORAGE	SC	EP	CMU	PT	EXP	VARIES	
151	MAINTENANCE BAYS	EP	EP	CMU	PT	EXP	VARIES	1,4,5,6
152	PAINT ROOM	SC	EP	CMU	PT	EXP	VARIES	
153	STORAGE BAYS	EP	EP	CMU	PT	EXP	VARIES	1,4,5,6
154	WASH BAYS	EP	EP	CMU	EP	EXP	VARIES	1,2,4,5,6,7
155	CHASE	-	-	CMU	-	EXP	VARIES	

ROOM FINISH SCHEDULE NOTES

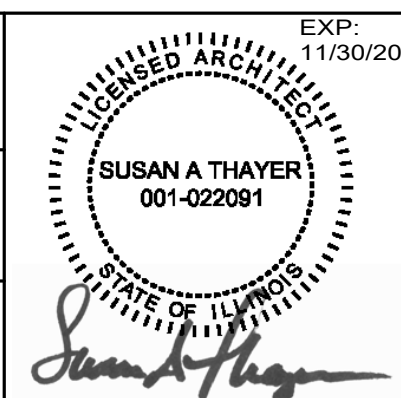
- SEE BUILDING ELEVATIONS AND SECTIONS FOR ADDITIONAL MATERIAL LOCATION INFORMATION.
- EPOXY PAINT (FOR CORROSION RESISTANCE IN THE WASH BAYS) ALL EXPOSED STRUCTURE, PIPING, CONDUIT, MECHANICAL DUCTS AND VENTS.
- PROVIDE VINYL BASE AT CASEWORK
- SLOPE CONCRETE FLOOR TOWARDS DRAINS.
- PROVIDE NON-SLIP BROADCAST MATERIAL IN EPOXY FLOOR
- EPOXY PAINT (EP) BLOCK AND EXPOSED STRUCTURE
- PROVIDE PREFINISHED STEEL LINER ON ALL WALLS ABOVE BLOCK.
- EPOXY PAINT (EP) BLOCK ONE (1) FULL BLOCK COURSE ABOVE FINISH FLOOR.
- CERAMIC TILE FLOOR & EPOXY PAINT (EP) FULL HEIGHT OF ALL WALLS IN SHOWER AREA.

ROOM FINISH GENERAL NOTES

- ALL SURFACES IN WASH BAY TO BE FINISHED WITH EPOXY PAINT FOR CORROSION RESISTANCE.
- ALL EXPOSED METAL IN THE WASH BAY TO BE CORROSION RESISTANT.
- ALL EXTERIOR FERROUS METAL WORK LOCATED IN EXTERIOR OR IN NO-CONDITIONED INTERIOR SPACES MUST BE GALVANIZED STEEL, MINIMUM G60 UNLESS FERROUS METAL IS TO BE PRE-FINISHED OR PAINTED.
- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED.
- SHAKER ROOM TO BE ACOUSTICALLY SEPARATED FROM ADJACENT SPACES.
- LOCKERS TO BE PROVIDED BY USING AGENCY. LAYOUT IS BASED ON 18"X18" WITH 20% ADA COMPLIANT.
- ALL ROOM SIGNAGE TO BE PROVIDED BY THE USING AGENCY.



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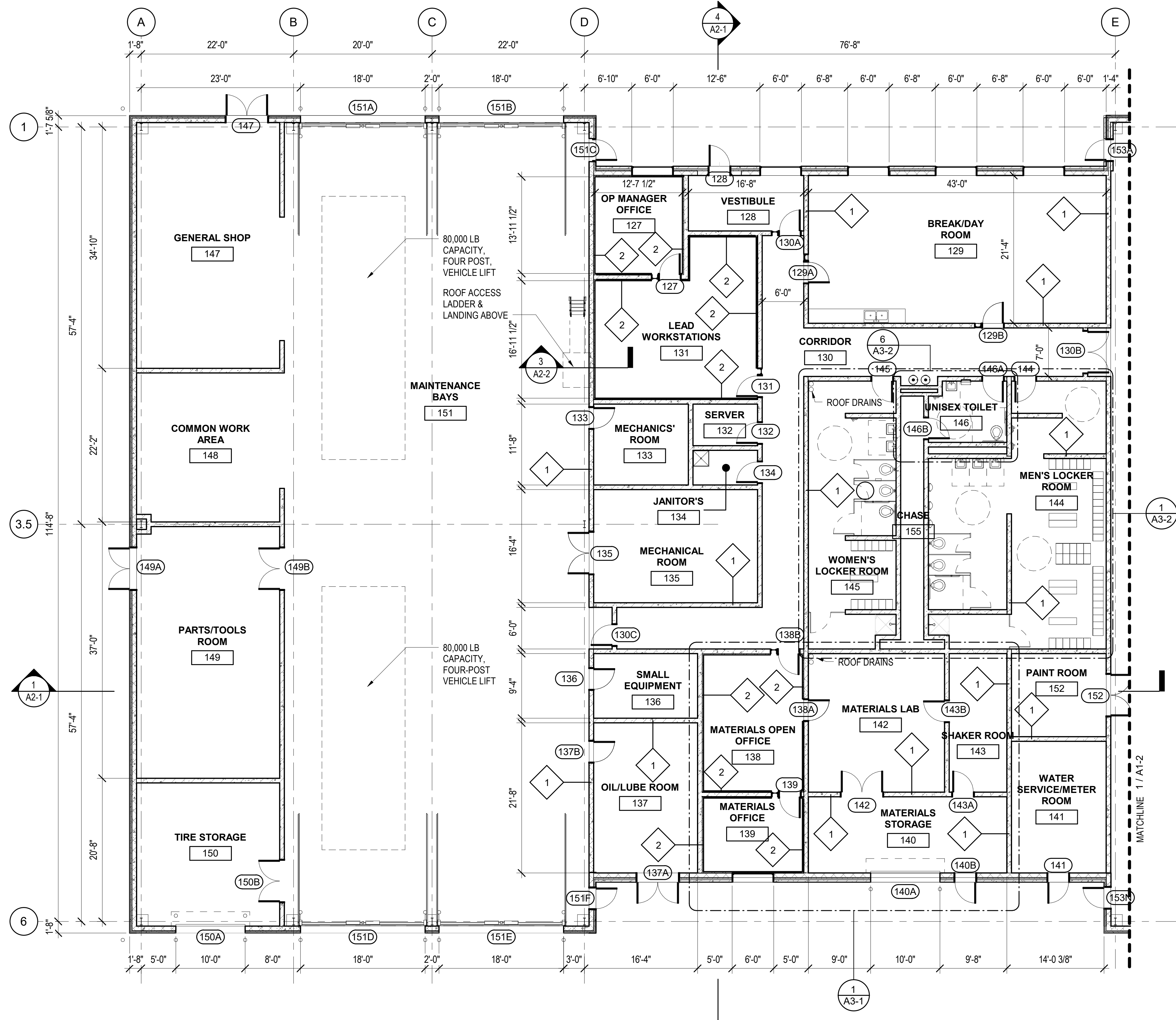


State of Illinois
JB PRITZKER, GOVERNOR
Illinois Capital Development Board

OVERALL BUILDING PLAN

STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO.
630-128-005
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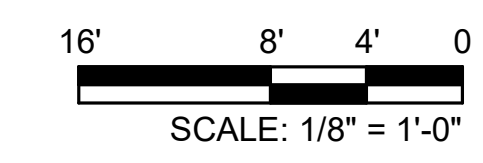
PROGRAM

ROOM PROGRAM			
RM NO.	ROOM NAME	QUANTITY	AREA
127	OP MANAGER OFFICE	1	177 SF
128	VESTIBULE	1	133 SF
129	BREAK/DAY ROOM	1	917 SF
130	CORRIDOR	1	773 SF
131	LEAD WORKSTATIONS	1	458 SF
132	SERVER	1	56 SF
133	MECHANICS' ROOM	1	159 SF
134	JANITOR'S CLOSET	1	47 SF
135	MECHANICAL ROOM	1	387 SF
136	SMALL EQUIPMENT	1	140 SF
137	OIL/LUBE ROOM	1	325 SF
138	MATERIALS OPEN OFFICE	1	283 SF
139	MATERIALS OFFICE	1	153 SF
140	MATERIALS STORAGE	1	315 SF
141	WATER SERVICE/METER ROOM	1	260 SF
142	MATERIALS LAB	1	393 SF
143	SHAKER ROOM	1	167 SF
144	MEN'S LOCKER ROOM	1	824 SF
145	WOMEN'S LOCKER ROOM	1	469 SF
146	UNISEX TOILET	1	96 SF
147	GENERAL SHOP	1	745 SF
148	COMMON WORK AREA	1	453 SF
149	PARTS/TOOLS ROOM	1	749 SF
150	TIRE STORAGE	1	427 SF
151	MAINTENANCE BAYS	4	5122 SF
152	PAINT ROOM	1	164 SF
153	STORAGE BAYS	10	17344 SF
154	WASH BAYS	2	1750 SF
155	CHASE		130 SF

TOTAL NET: 33,373 SF
 TOTAL GROSS: 35,230 SF

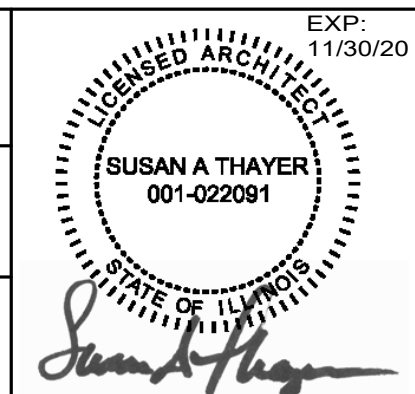
FLOOR PLAN NOTES

- ALL FURNITURE AND EQUIPMENT PROVIDED BY IDOT UNLESS NOTED OTHERWISE.
- LOCKERS AND BENCHES PROVIDED BY IDOT WITH 20% TO MEET ADA REQUIREMENTS.
- SHAKER ROOM TO BE ACOUSTICALLY SEPARATED FROM ADJACENT SPACES.
- REFER TO LIFE SAFETY PLAN FOR FIRE RATING REQUIREMENTS.
- ROOM FINISH SCHEDULE, SEE SHEET A1-0.
- DOOR SCHEDULE, SEE SHEET A-5-1.
- WALL SECTIONS, SEE SHEET A2-2.
- PROVIDE BOLLARDS AT ALL OVERHEAD DOORS AND BUILDING CORNERS. SEE CIVIL DRAWINGS FOR DETAILS.
- CONTRACTOR TO COORDINATE CODE REQUIRED SIZES FOR CONCRETE PADS OF MEP EQUIPMENT. SEE MEP DRAWINGS.
- MEP COMPONENTS, INCLUDING BUT NOT LIMITED TO CONDUIT AND PIPES/DOWNSPOUTS ARE SHOWN ON ARCHITECTURAL PLANS FOR REFERENCE ONLY. NOT ALL PENETRATIONS AND MEP COMPONENTS ARE SHOWN. CONTRACTOR TO COORDINATE AND ADJUST CHASES AND COLUMN ENCLOSURES AS REQUIRED TO FIT MEP COMPONENTS UPON ARCHITECT'S APPROVAL.



1 BUILDING PLAN - WEST
 1/8" = 1'-0"

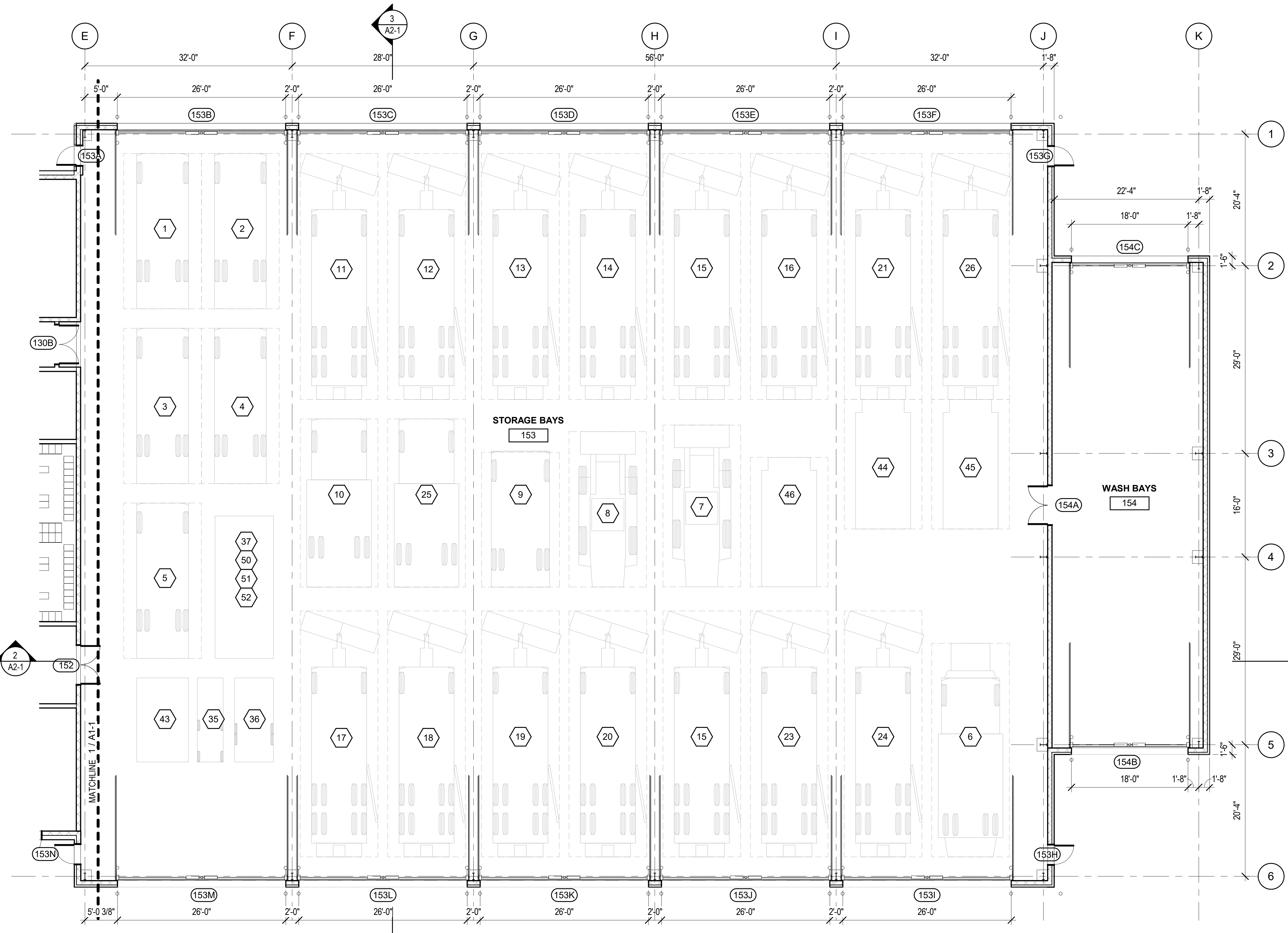
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State of Illinois
JB PRITZKER, GOVERNOR
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BUILDING PLAN - WEST	PROJECT NO. 630-128-005
STEVENSON YARD MAINTENANCE FACILITY BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)	DATE 05/06/2020
ILLINOIS DEPARTMENT OF TRANSPORTATION MCCOOK, COOK COUNTY, ILLINOIS 60525	SHEET NO. A1-1
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1 BUILDING PLAN - EAST
1/8" = 1'-0"

STEVENSON YARD EQUIPMENT LIST

Stevenson Maintenance Yard - Equipment List 2019
All Snow and Ice Trucks reflect the length of newest/current replacements.

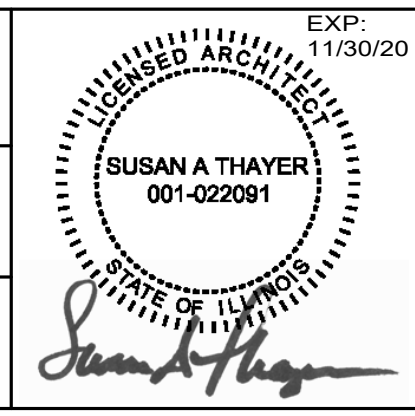
Equip. Plan #	IDOT Radio #	IDOT Equip. #	Plate #	Model Yr	Model Description
1	681	T55378	U31 964	2011	Ford Crew Cab F250 Super Duty
2	682	T51880	U28 963	2013	Ford Regular Cab F150
3	683	T46181	U7156	2008	Ford Crew Cab F250
4	684	T52409	U29 192	2014	Ford Crew Cab F250
5	685	T52233	U28 940	2014	Ford Crew Cab F250
6	686	T37318	U8138	1991	I.H. Vactor 4900
7	687	122378	NA	2011	Komatsu Loader WA250-6
8	688	122363	NA	2006	Case Loader 621D
9	689	T55388	U31959	2008	Ford F350 Super Duty
10	690	T37544	U08204	1996	I.H. Load-All 4900
11	691	T54617	U31275	2018	I.H. 6-Ton 7400T
12	692	T46965	NA	NA	
13	693	T49778	U806	2013	I.H. 6-Ton 7400 Radius
14	694	T54636	U31118	2018	I.H. 3-Ton Crew Cab 7400
15	695	T47413	U04378	2011	I.H. 6-Ton 7400 Radius
16	696	T54650	U30969	2018	I.H. 3-Ton Crew Cab 7400
17	697	T49694	U14207	2013	I.H. 6-Ton Super 7400
18	698	T54282	U31159	2018	I.H. 6-Ton 7400T Radius
19	701	T51311	U8123	2014	I.H. 6-Ton Super 7400
20	702	T46481	U07199	2009	I.H. 6-Ton 7400 Radius
21	703	T55360	U32233	2019	I.H. 6-Ton 7400 Radius - Brine
22	704	T53379	U8992	2015	I.H. 6-Ton 7400 Radius
23	705	T44429	U08982	2007	I.H. 3-Ton 7400
24	706	T46776	U8953	2009	I.H. 6-Ton WorkStar
25	707	T37790	U09132	2001	I.H. Stakebody 4700
26	708	T55364	U32369	2019	I.H. 6-Ton 7400 Radius - Brine
27	NA	114016	NA	1989	Case Back Hoe
28	NA	050111	NA	1971	Ford Yard-Mule Landscape Loader
29	NA	150469	NA	2017	Toro Zero Turn Mower
30	NA	150452	NA	2017	Kubota Tractor/Mower
31	NA	150414	NA	1983	Toro Diesel Mower
32	NA	124088	NA	2005	Billy Goat Brush Mower
33	NA	101210	NA	2014	Asphalt Hot Box
34	NA	190024	NA	1997	Vermeer Tree Chipper
35	NA	772002	NA	1993	Nissan Fork Lift
36	NA	107153	NA	1994	Sullair Compressor
37	NA	R05912	NA	2009	Graffiti Trailer
38	NA	158228	NA	NA	Utility Trailer
39	NA	158024	NA	1984	Roller/Utility Trailer
40	NA	158175	NA	1996	Low-Boy Flatbed Trailer
41	NA	158144	NA	1966	Pesticide Sprayer Trailer
42	NA	158065	NA	1987	Water Tank Trailer
43	NA	T37271	NA	NA	Mechanic Truck
44	NA	103374	NA	2007	TMA w/Arrow Panel
45	NA	103406	NA	2007	TMA w/Arrow Panel
46	NA	103424	NA	2015	TMA w/Arrow Panel
47	NA	147083	NA	1993	Water Tank W.W.
48	NA	186041	NA	1993	Motor Water Wagon
49	NA	147157	NA	2005	Pesticide Tank
50	NA	107146	NA	1993	Compressor for Graffiti Blaster
51	NA	153197	NA	2016	Graffiti Blaster
52	NA	154995	NA	2018	Graffiti Sprayer
53	NA	154782	NA	2000	Lite Trailer
54	NA	T00368	NA	NA	Off-Road Eq. w/Flail Deck
55	NA	T00369	NA	NA	Off-Road Eq. w/Green Deere Deck

FLOOR PLAN NOTES

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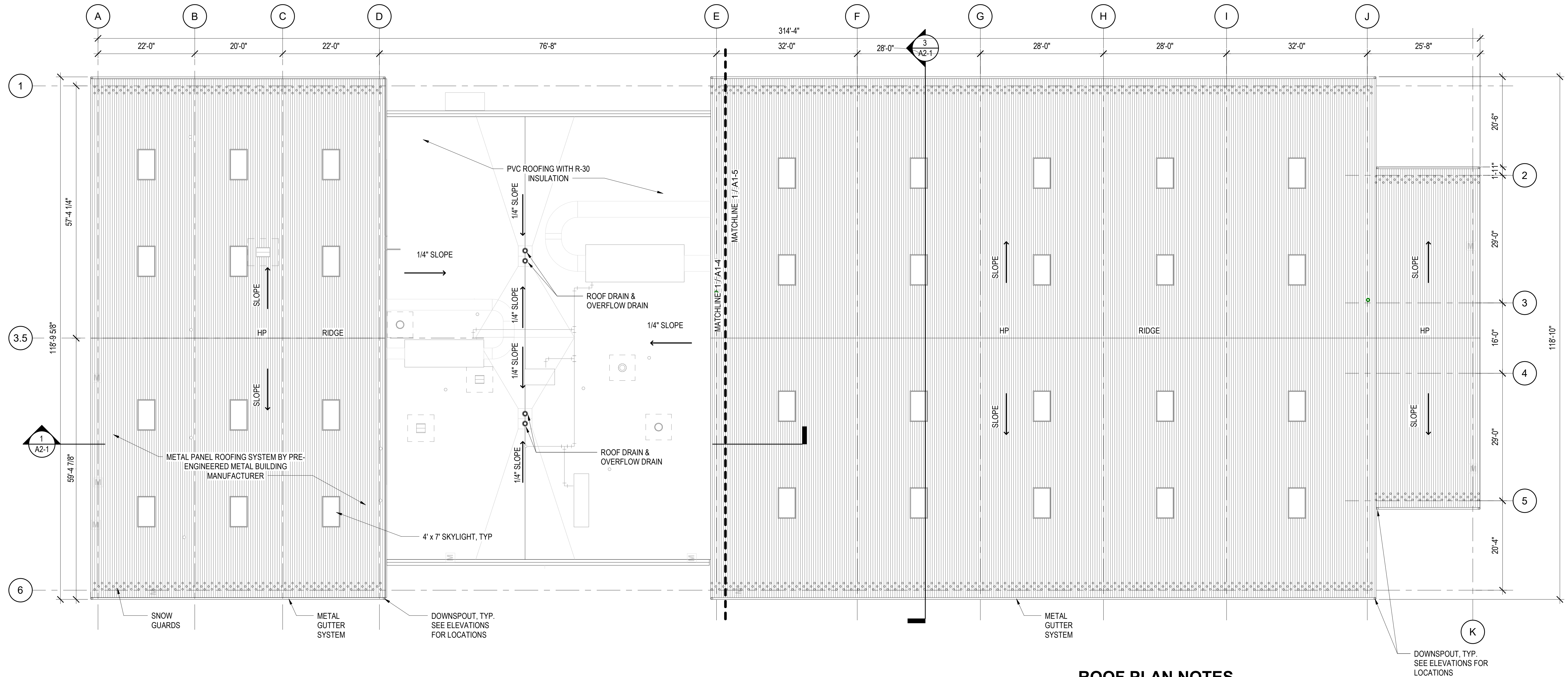
State of Illinois
JB PRITZKER, GOVERNOR
Illinois Capital Development Board

BUILDING PLAN - EAST

STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
DATE 05/06/2020
SHEET NO. **A1-2**
OF () SHEETS

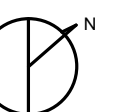
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1 OVERALL MAINTENANCE FACILITY ROOF PLAN
3/32" = 1'-0"

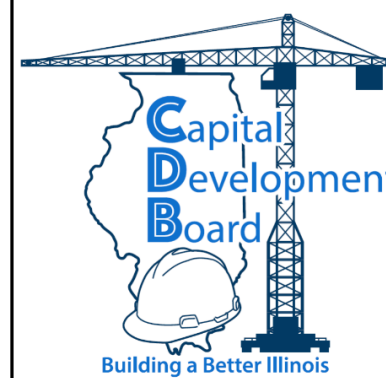
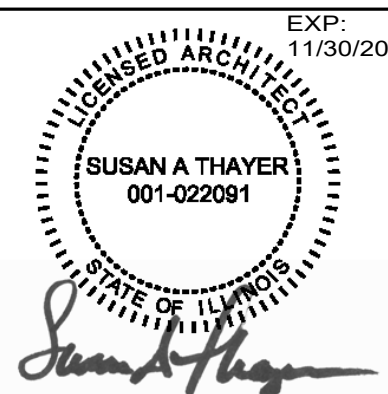
ROOF PLAN NOTES

- DESIGN-BUILDER TO COMPLY WITH ALL REQUIREMENTS OF THE CDB ROOFING HANDBOOK.
- SLOPED METAL ROOF OVER VEHICLE BAYS TO HAVE CONCEALED FASTENERS AND ARE TO BE DESIGNED AND ENGINEERED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER.
- VEHICLE BAY ROOFS TO HAVE SKYLIGHTS TO SATISFY 2018 IECC, AND THAT ARE COMPATIBLE WITH THE PRE-ENGINEERED METAL ROOF SYSTEM AND UNDER THE SAME WARRANTY. SIZE AND LOCATIONS OF SKYLIGHTS TO BE CONFIRMED BY THE DESIGN-BUILDER.
- LOW SLOPE ROOF OVER OFFICE AREAS TO BE SINGLE PLY PVC WITH R-30 α ABOVE THE ROOF DECK.
- ROOF SLOPE TO BE ACHIEVED WITH THE ROOF STRUCTURE, NOT INSULATION, PER CDB STANDARDS.
- ALL ROOFS TO HAVE FALL PROTECTION.
- ROOFING MEMBRANE THICKNESS TO BE MIN. 60 MIL AND TO BE FULLY ADHERED, NOT FLEECE BACKED.
- NON-PENETRATING SNOW GUARDS TO BE PROVIDED ON STANDING SEAM METAL ROOFS
- GUTTERS TO HAVE EXTERNAL HANGERS WITHOUT SPIKES OR FERRULES



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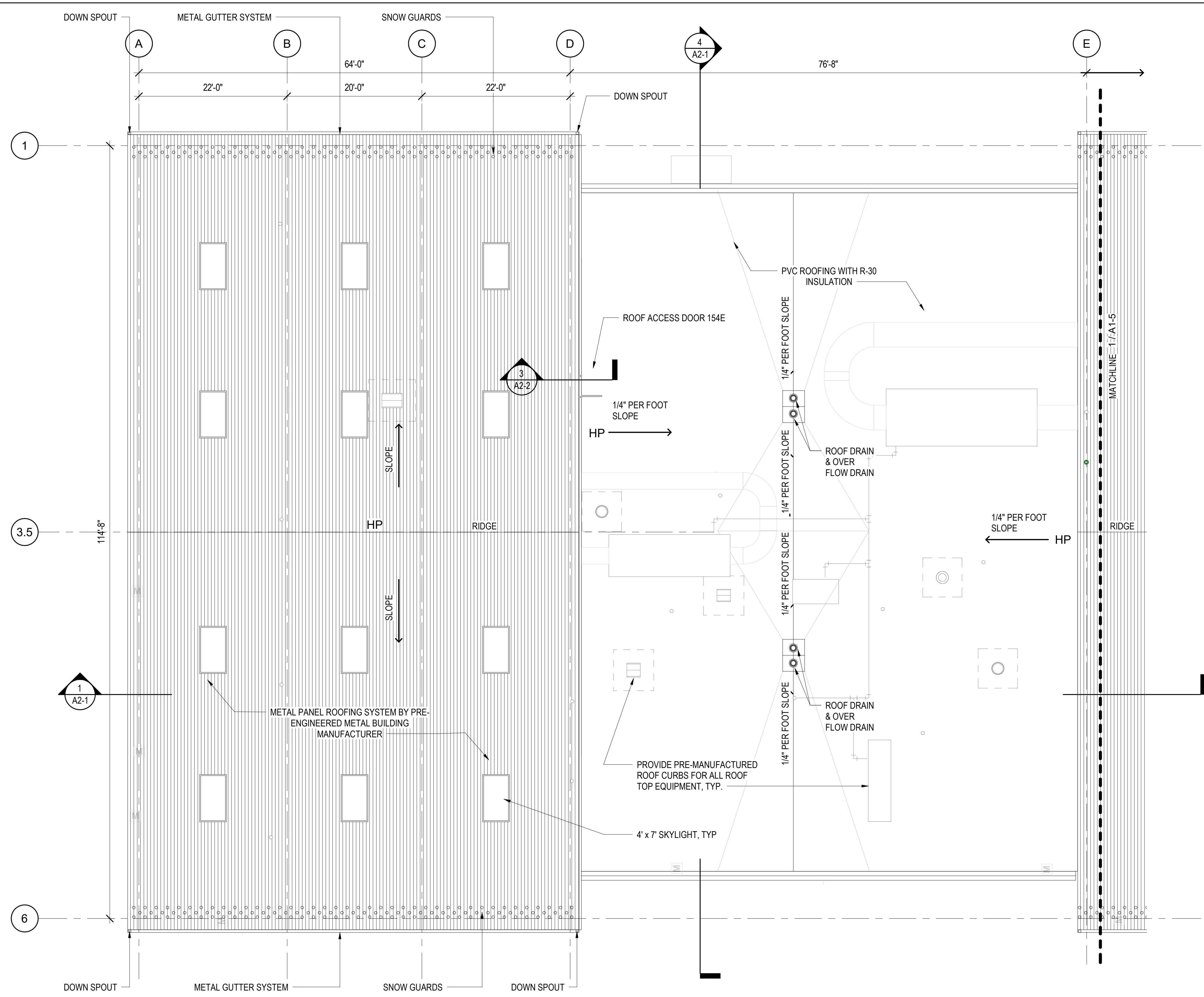


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OVERALL ROOF PLAN

STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO.
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ROOF PLAN NOTES

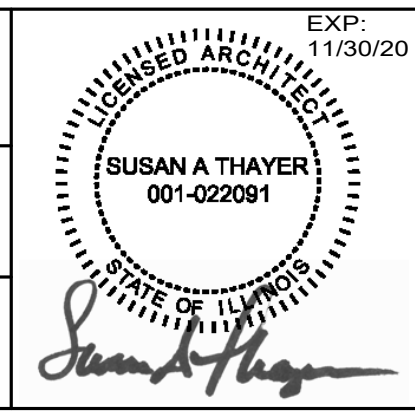
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4. LOW SLOPE ROOF OVER OFFICE AREAS TO BE SINGLE PLY PVC WITH R-30 *ci* ABOVE THE ROOF DECK.
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6. ALL ROOFS TO HAVE FALL PROTECTION.
7. ROOFING MEMBRANE THICKNESS TO BE MIN. 60 MIL AND TO BE FULLY ADHERED, NOT FLEECE BACKED.
8. NON-PENETRATING SNOW GUARDS TO BE PROVIDED ON STANDING SEAM METAL ROOFS
9. GUTTERS TO HAVE EXTERNAL HANGERS WITHOUT SPIKES OR FERRULES

1 ROOF PLAN - WEST
1/8" = 1'-0"



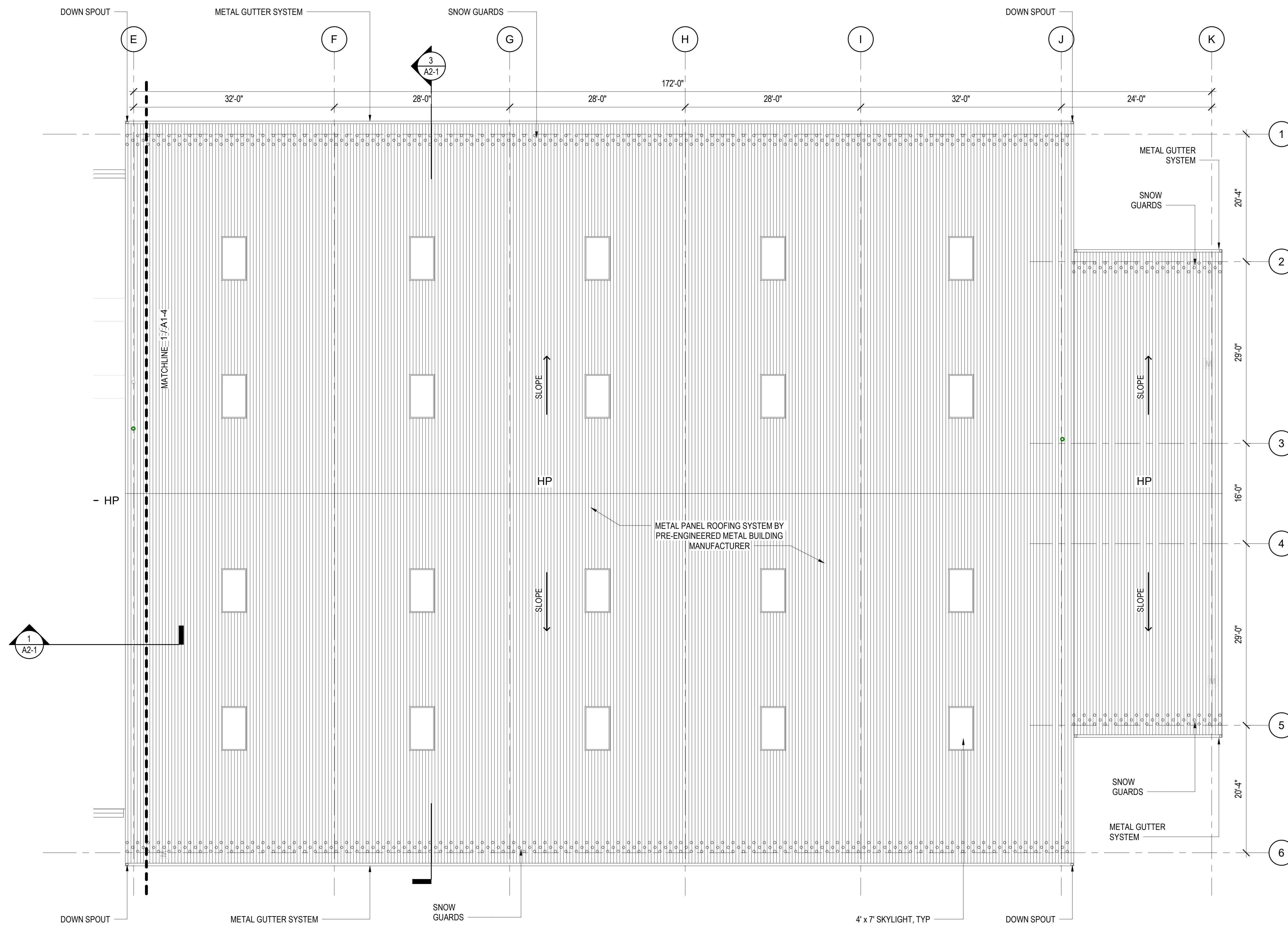
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Illinois Capital Development Board

ROOF PLAN - WEST		PROJECT NO.
STEVENS ON YARD MAINTENANCE FACILITY BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION) ILLINOIS DEPARTMENT OF TRANSPORTATION MCCOOK, COOK COUNTY, ILLINOIS 60525		630-128-005
		DATE 05/06/2020
		SHEET NO. A1-4
		OF () SHEETS



ROOF PLAN NOTES

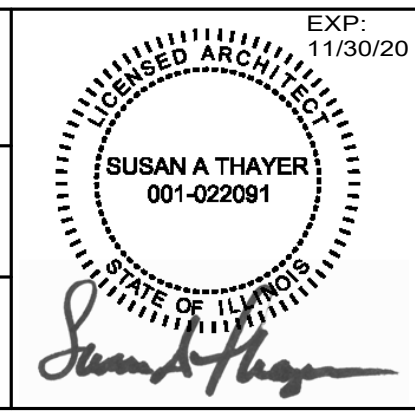
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3. VEHICLE BAY ROOFS TO HAVE SKYLIGHTS TO SATISFY 2018 IECC, AND THAT ARE COMPATIBLE WITH THE PRE-ENGINEERED METAL ROOF SYSTEM AND UNDER THE SAME WARRANTY. SIZE AND LOCATIONS OF SKYLIGHTS TO BE CONFIRMED BY THE DESIGN-BUILDER.
4. LOW SLOPE ROOF OVER OFFICE AREAS TO BE SINGLE PLY PVC WITH R-30 ci ABOVE THE ROOF DECK.
5. ROOF SLOPE TO BE ACHIEVED WITH THE ROOF STRUCTURE, NOT INSULATION, PER CDB STANDARDS.
6. ALL ROOFS TO HAVE FALL PROTECTION.
7. ROOFING MEMBRANE THICKNESS TO BE MIN. 60 MIL AND TO BE FULLY ADHERED, NOT FLEECE BACKED.
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1 ROOF PLAN - EAST
1/8" = 1'-0"

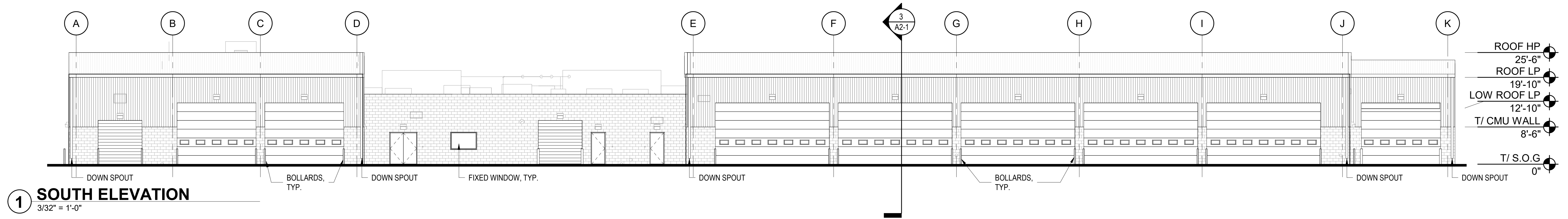
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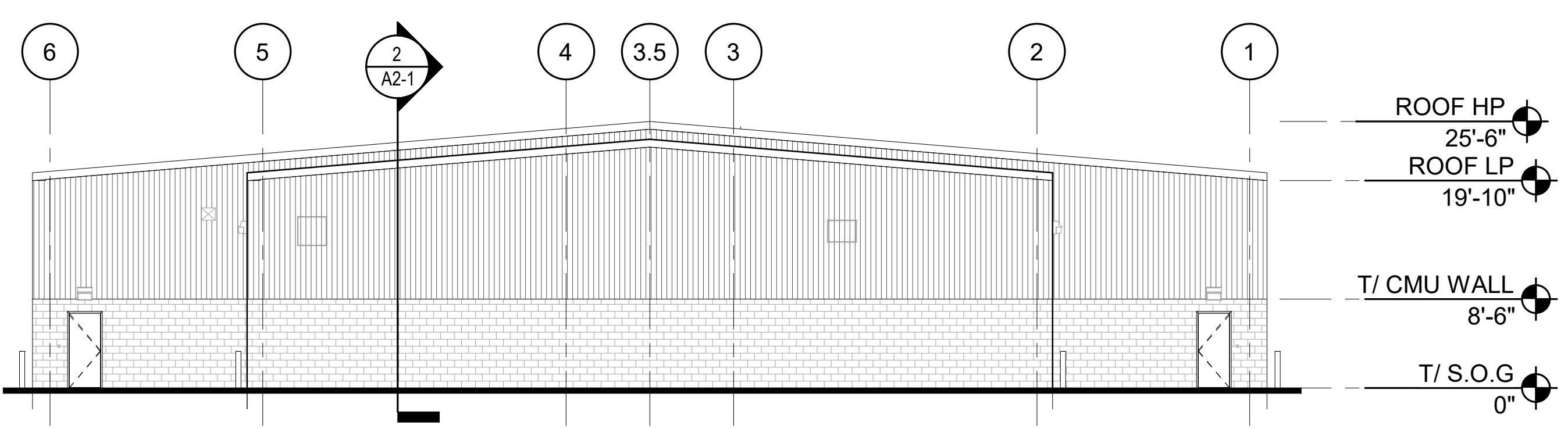


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Illinois Capital Development Board

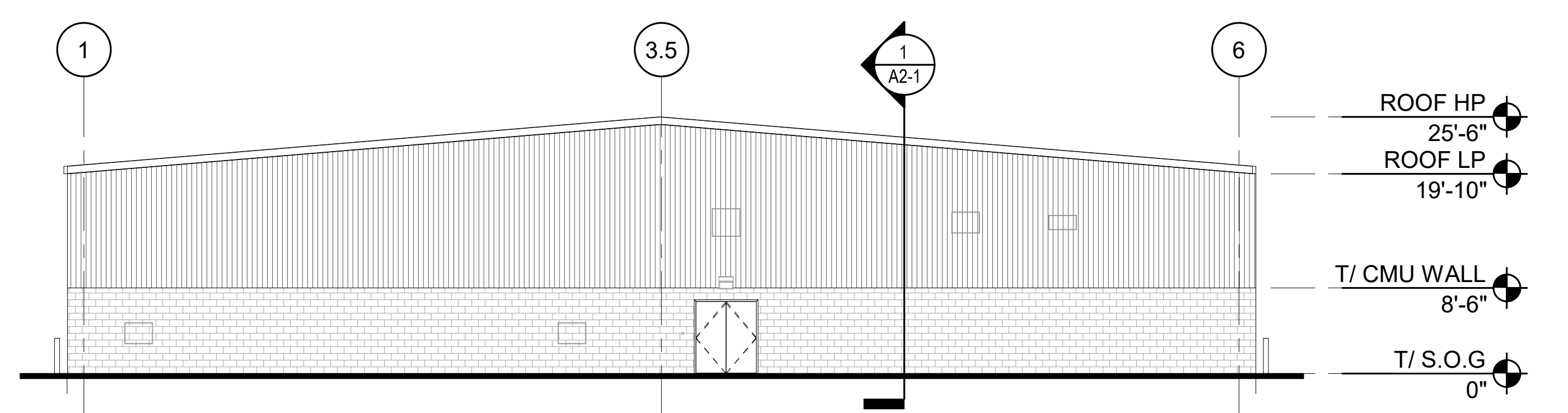
ROOF PLAN - EAST		PROJECT NO.
STEVENSON YARD MAINTENANCE FACILITY BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION) ILLINOIS DEPARTMENT OF TRANSPORTATION MCCOOK, COOK COUNTY, ILLINOIS 60525		630-128-005
		DATE
		05/06/2020
		SHEET NO.
		A1-5
		OF () SHEETS



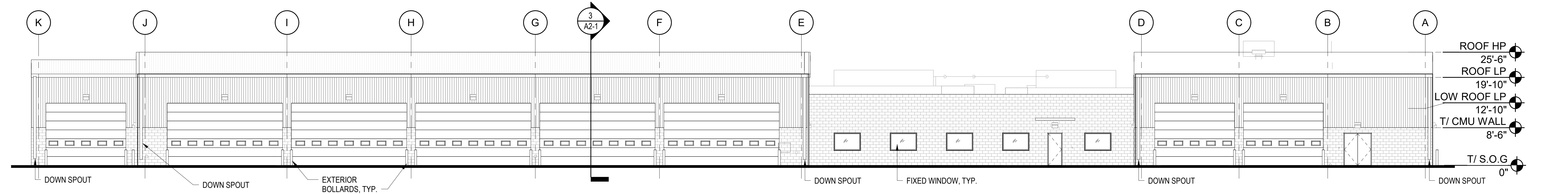
1 SOUTH ELEVATION
3/32" = 1'-0"



2 EAST ELEVATION
3/32" = 1'-0"



4 WEST ELEVATION
3/32" = 1'-0"



3 NORTH ELEVATION
3/32" = 1'-0"

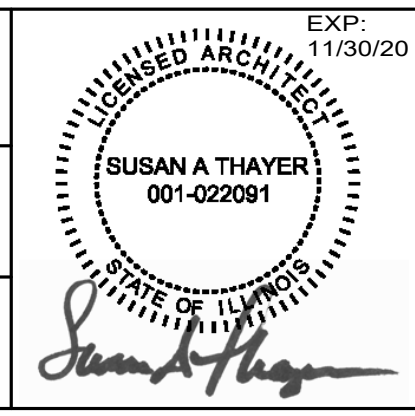
ELEVATION NOTES

1. ALL EXTERIOR WALLS, DOORS AND ROOFS TO BE INSULATED PER 2018 IECC. REFER TO SHEET G0-3 FOR ENERGY CODE REQUIREMENTS.
2. PRE-ENGINEERED METAL BUILDING TO BE PRE-FINISHED BY THE MANUFACTURER AND UTILIZE CONCEALED FASTENERS.
3. COORDINATE ALL OPENINGS WITH THE MASONRY COURSING.
4. DOWNSPOUTS TO DISCHARGE TO GRADE.



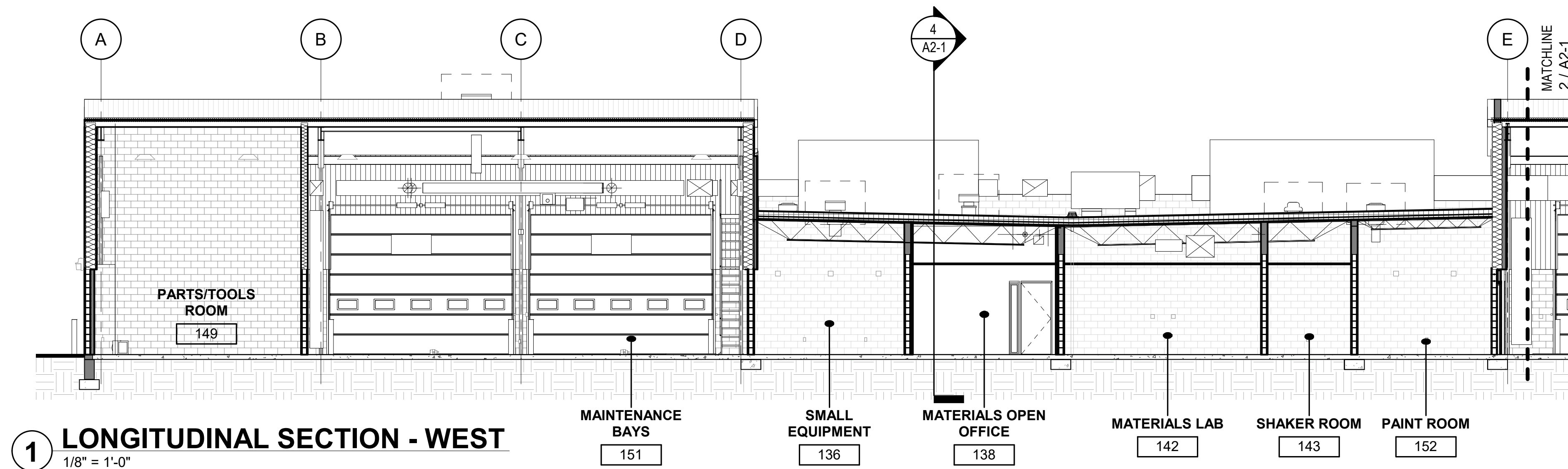
NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

REVISIONS			DRAWN	PREPARED	EXP.
NO.	DATE	REMARKS	HW		11/30/20
			TRACED	APPROVED	
			CHECKED	APPROVED	
A	5/6/20	FINAL BRIDGING DOCUMENTS	ST		

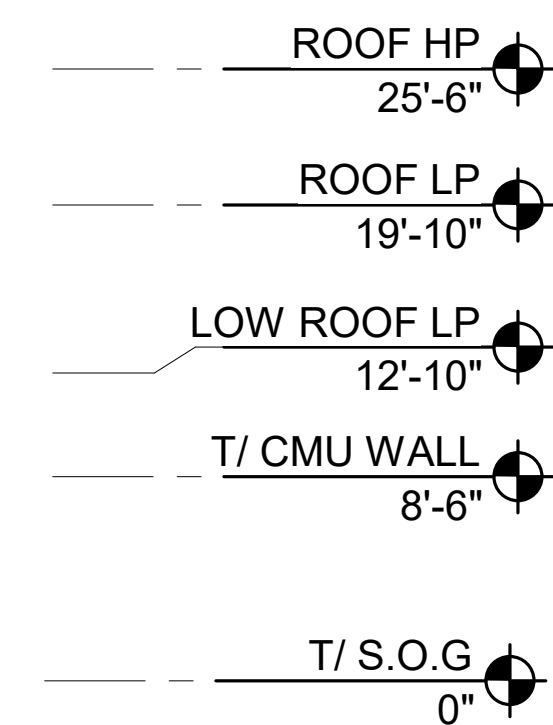


State of Illinois
JB PRITZKER, GOVERNOR
Illinois Capital Development Board

BUILDING ELEVATIONS		PROJECT NO.
STEVENSON YARD MAINTENANCE FACILITY BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION) ILLINOIS DEPARTMENT OF TRANSPORTATION MCCOOK, COOK COUNTY, ILLINOIS 60525		630-128-005
		DATE 05/06/2020
		SHEET NO. A2-0
		OF () SHEETS

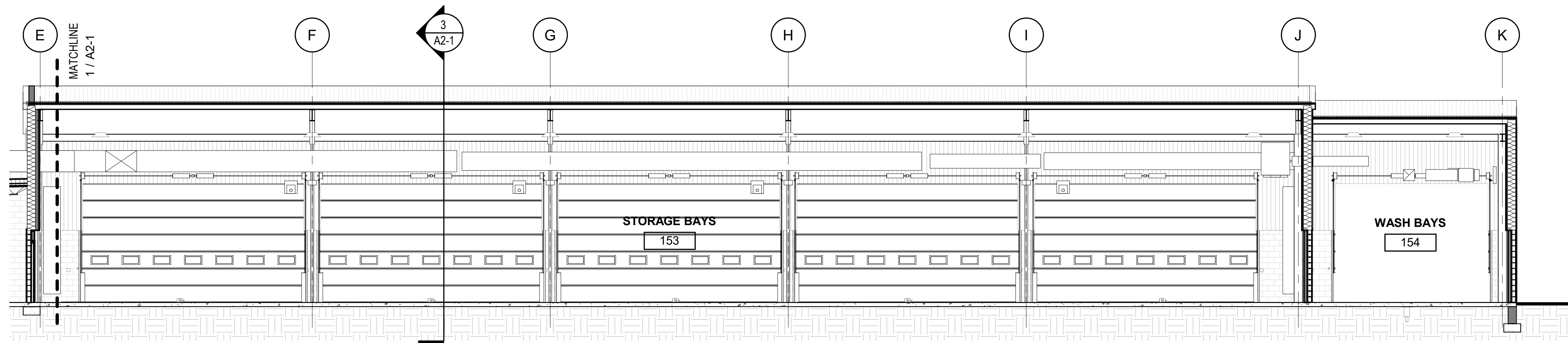


1 LONGITUDINAL SECTION - WEST
1/8" = 1'-0"

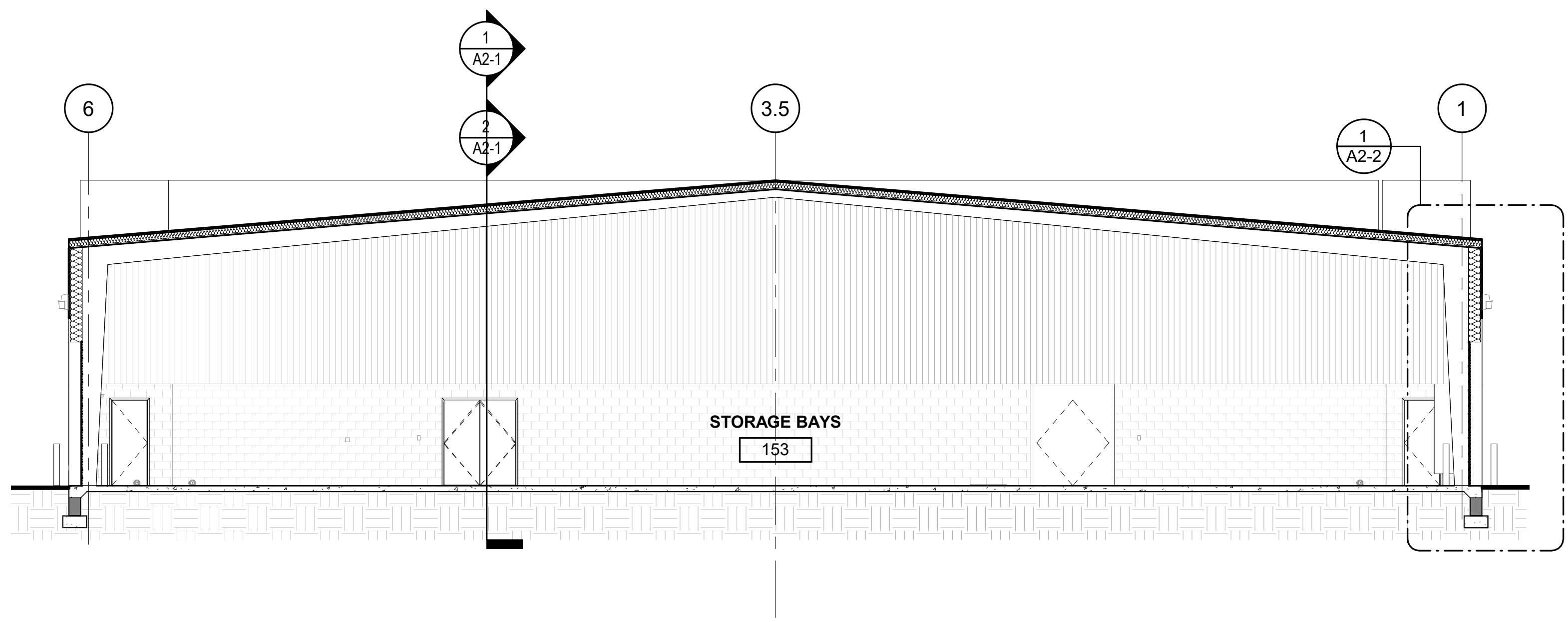
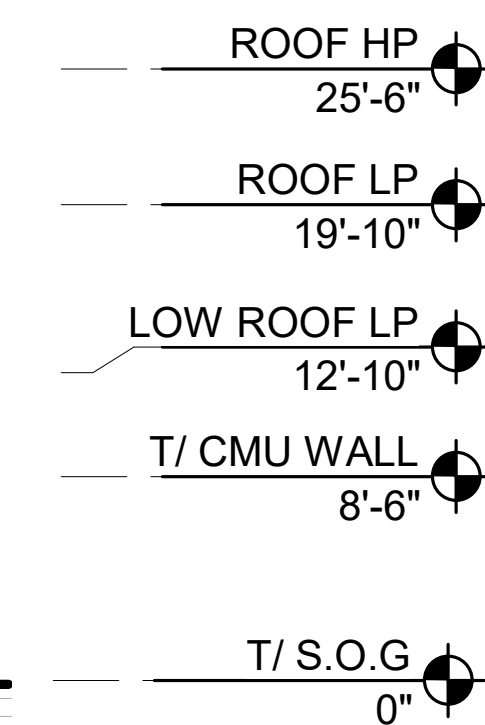


SECTION NOTES

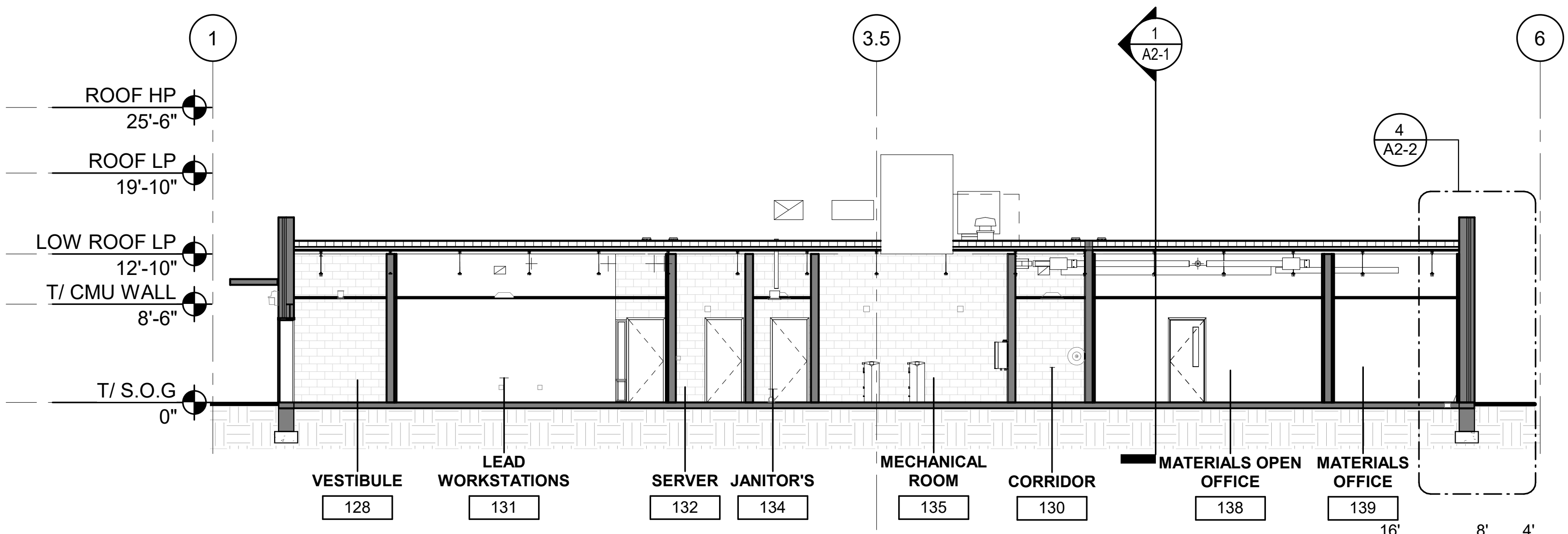
1. VEHICLE BAY STRUCTURES TO BE DESIGNED AND ENGINEERED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER TO HAVE A CLEAR SPAN WITH NO INTERIOR COLUMNS.
2. ALL EXTERIOR WALLS, DOORS AND ROOFS TO BE INSULATED PER 2018 IECC. REFER TO SHEET G0-3 FOR ENERGY CODE REQUIREMENTS.
3. REFER TO CIVIL DRAWINGS FOR FINISH FLOOR ELEVATION.
4. COORDINATE LIGHTING, DUCTWORK, SPRINKLER SYSTEM, OVERHEAD DOORS, ROOF ACCESS, AND MAINTENANCE EQUIPMENT.



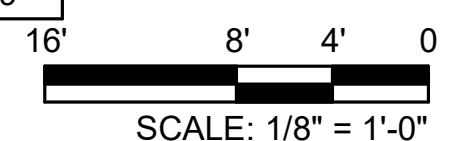
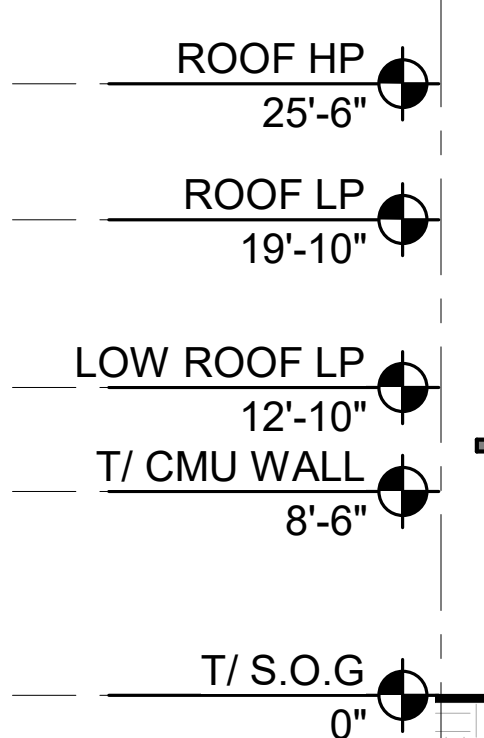
2 LONGITUDINAL SECTION - EAST
1/8" = 1'-0"



3 SECTION @ MAINTAINANCE
1/8" = 1'-0"

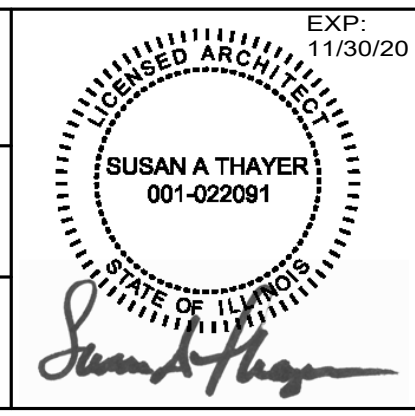


4 SECTION @ OFFICE
1/8" = 1'-0"



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REVISIONS			EXP.
NO.	DATE	REMARKS	11/30/20
A	5/6/20	FINAL BRIDGING DOCUMENTS	

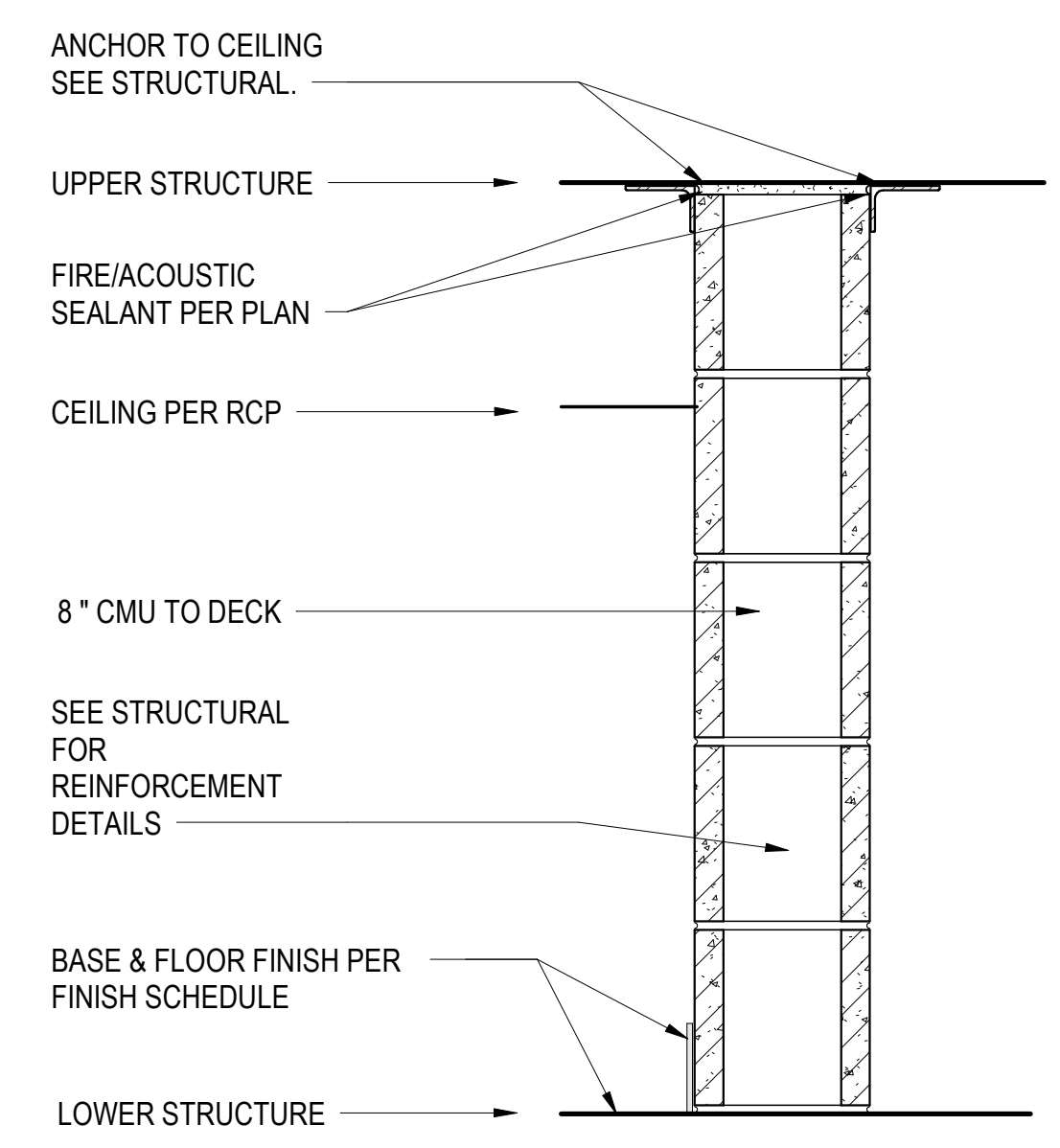
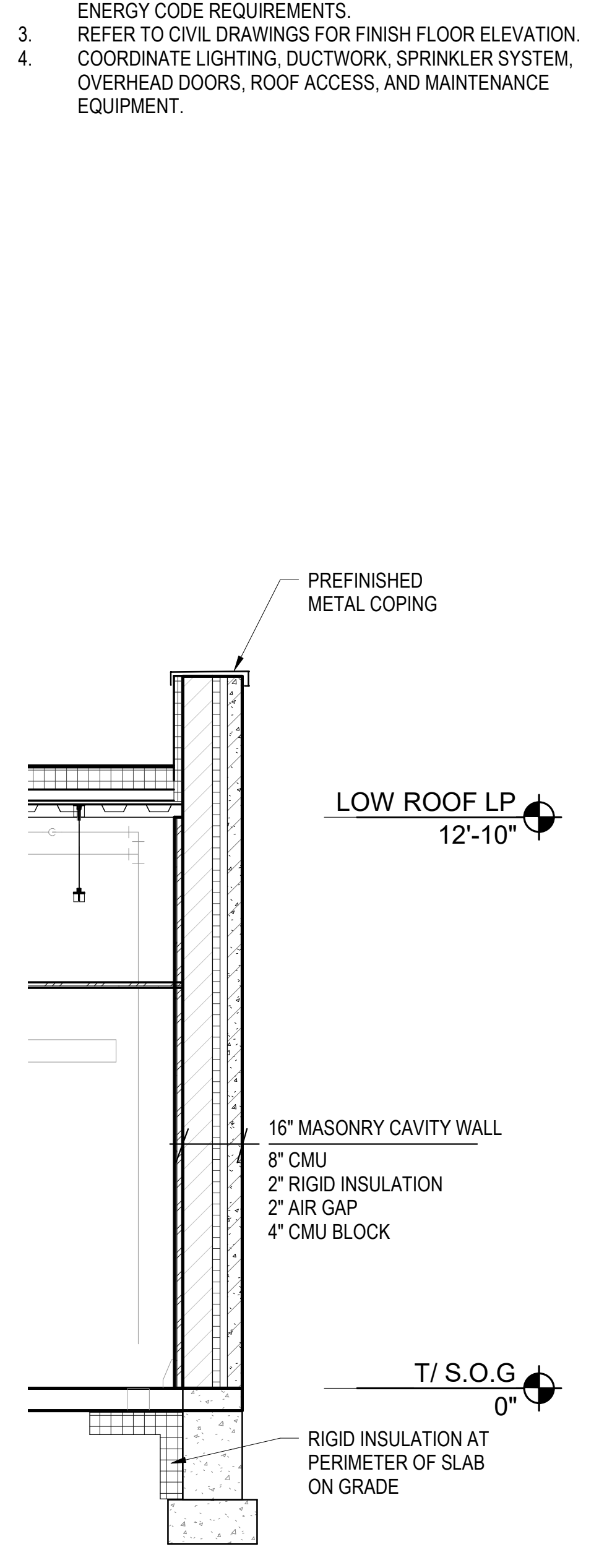
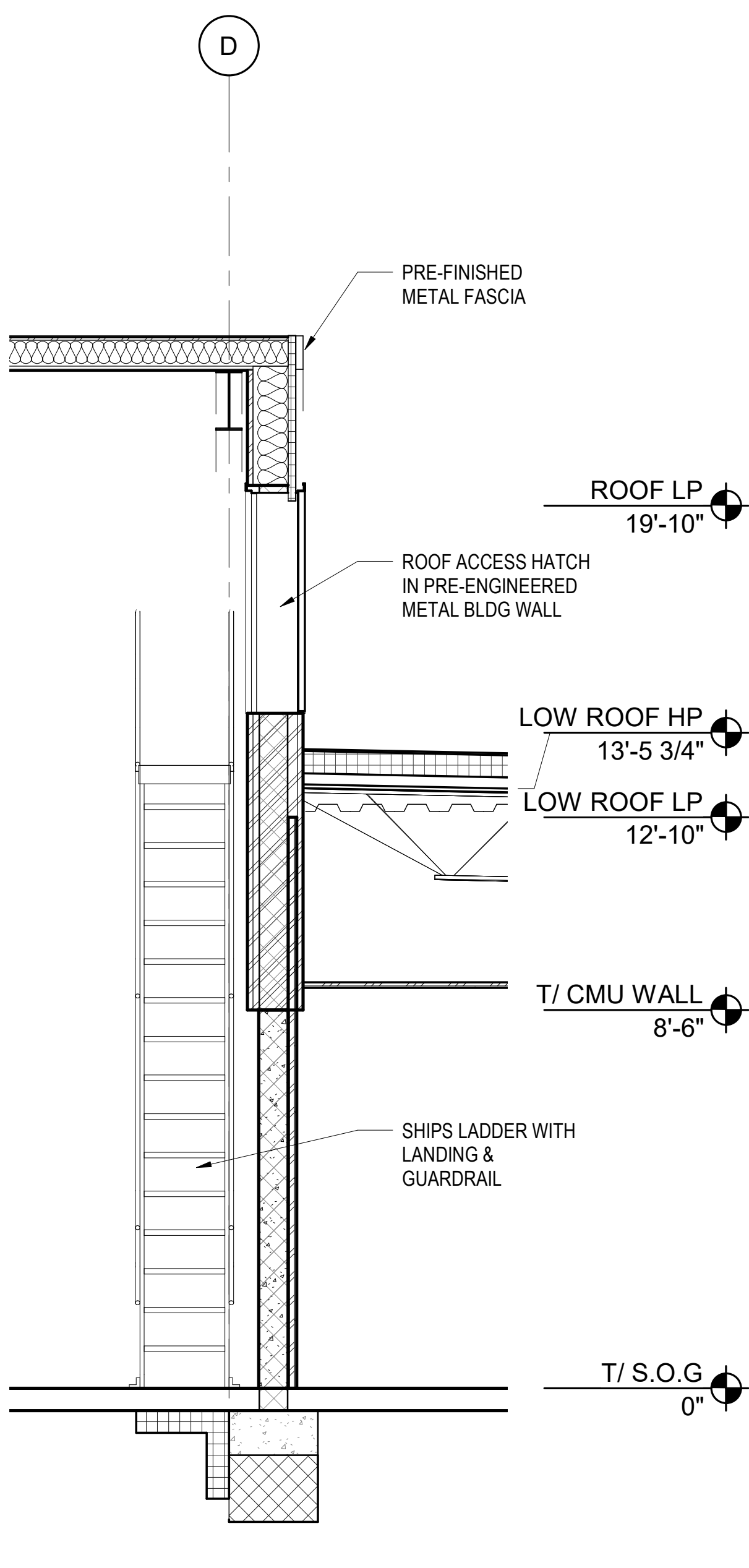
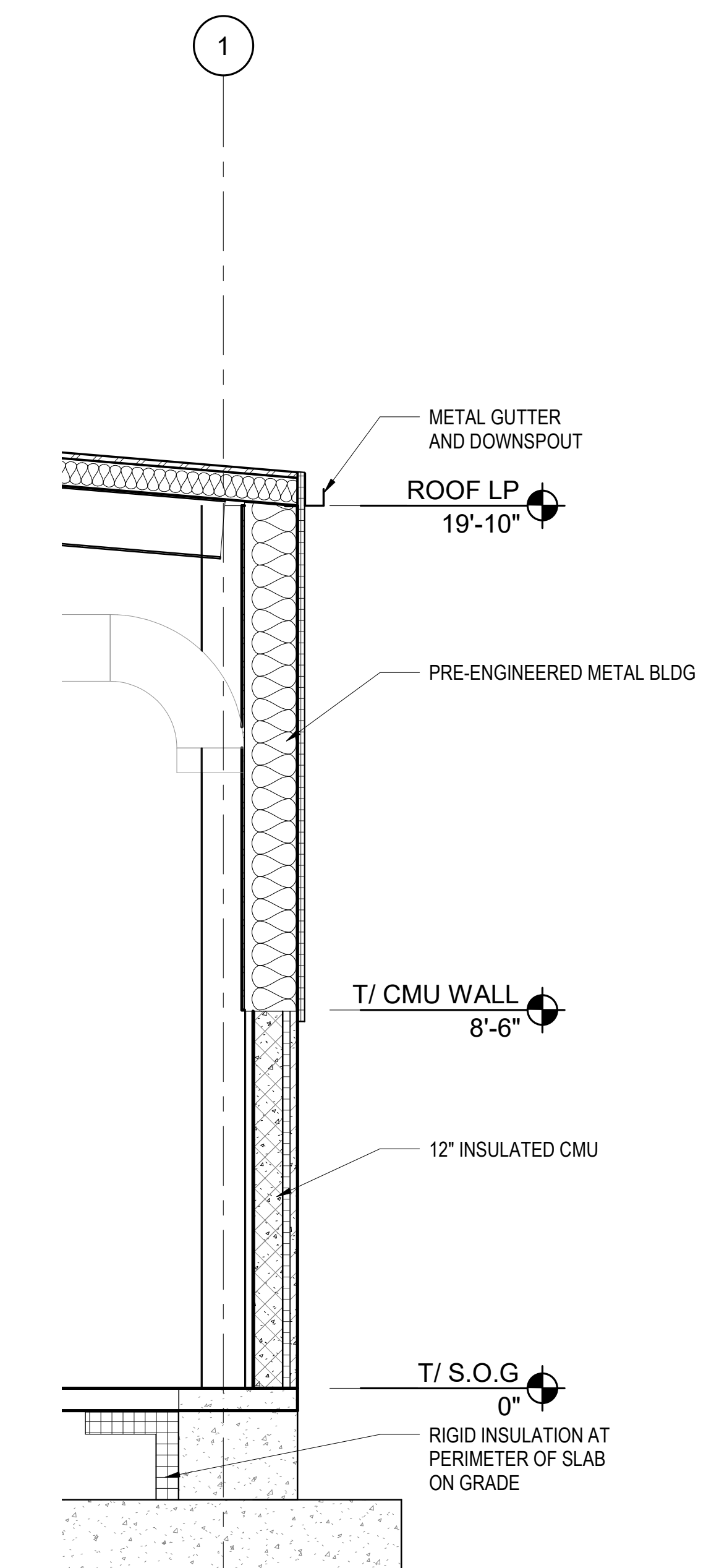
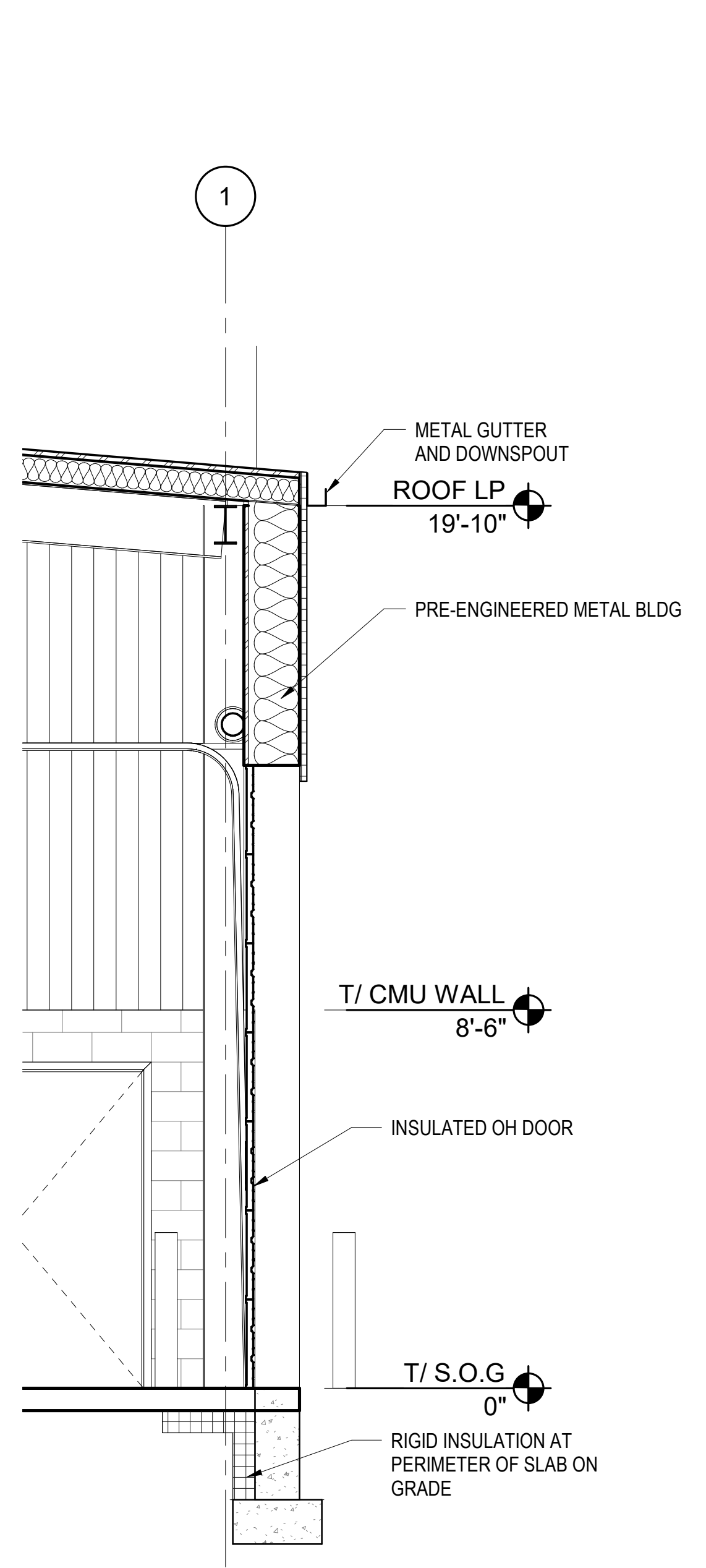


State of Illinois
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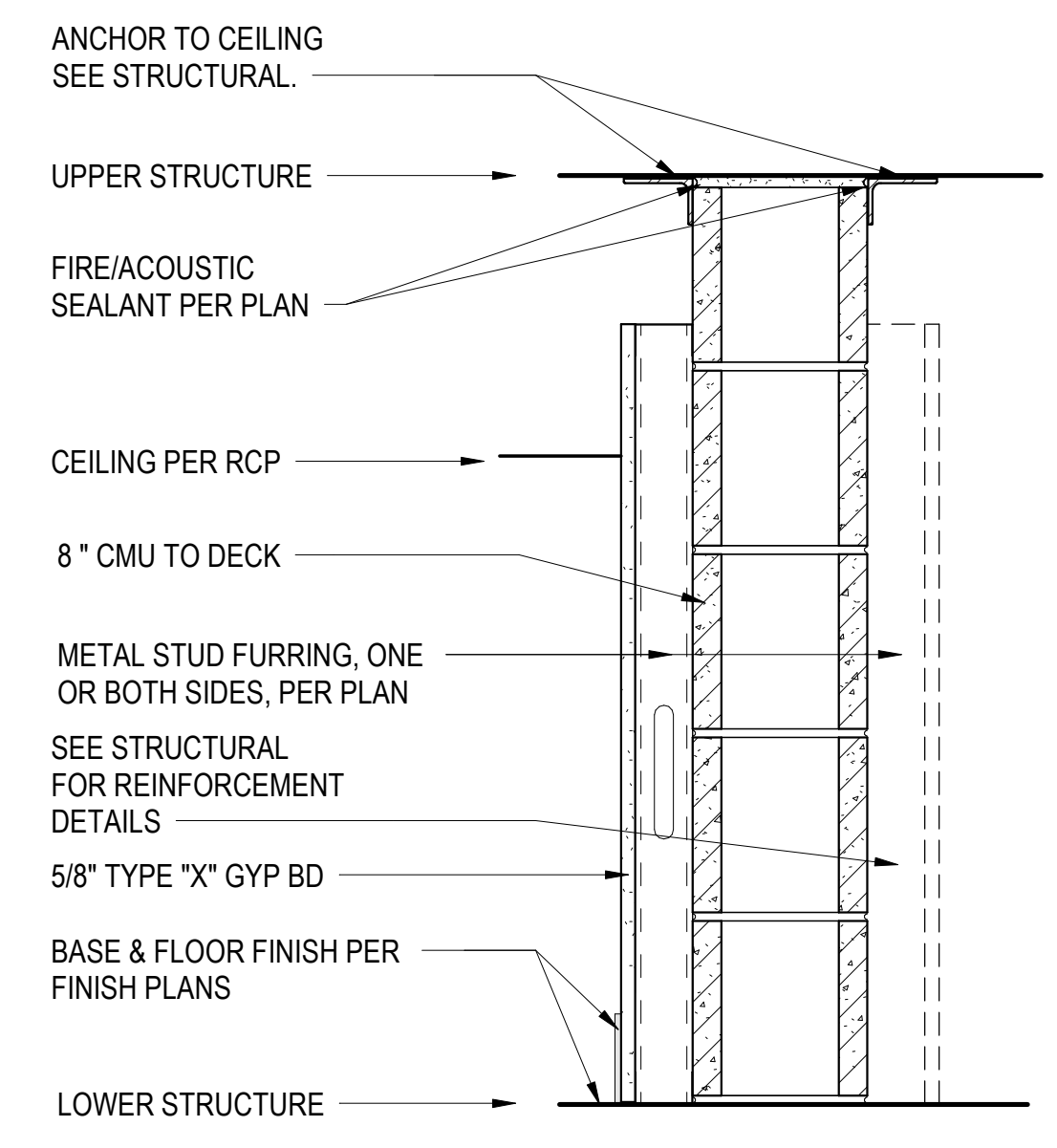
BUILDING SECTIONS		PROJECT NO.
STEVENSON YARD MAINTENANCE FACILITY BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION) ILLINOIS DEPARTMENT OF TRANSPORTATION MCCOOK, COOK COUNTY, ILLINOIS 60525		630-128-005
		DATE 05/06/2020
		SHEET NO. A2-1
		OF () SHEETS

SECTION NOTES

1. VEHICLE BAY STRUCTURES TO BE DESIGNED AND ENGINEERED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER TO HAVE A CLEAR SPAN WITH NO INTERIOR COLUMNS.
2. ALL EXTERIOR WALLS, DOORS AND ROOFS TO BE INSULATED PER 2018 IECC. REFER TO SHEET G0-3 FOR ENERGY CODE REQUIREMENTS.
3. REFER TO CIVIL DRAWINGS FOR FINISH FLOOR ELEVATION. COORDINATE LIGHTING, DUCTWORK, SPRINKLER SYSTEM, OVERHEAD DOORS, ROOF ACCESS, AND MAINTENANCE EQUIPMENT.



1 TYPICAL INTERIOR PARTITION
 FIRE RATING: 1HR WHERE INDICATED ON PLAN
 STC: 60 WHERE ACOUSTIC REQUIREMENTS ARE INDICATED



2 TYPICAL INTERIOR PARTITION @ OFFICES
 FIRE RATING: 1HR WHERE INDICATED ON PLAN
 STC: 60 WHERE ACOUSTIC REQUIREMENTS ARE INDICATED

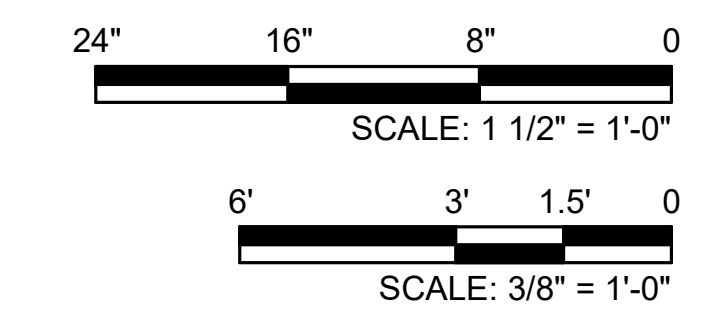
1 SECTION @ VEHICLE BAY-DOOR
 3/8" = 1'-0"

2 SECTION @ VEHICLE BAY
 3/8" = 1'-0"

3 SECTION @ ROOF ACCESS
 3/8" = 1'-0"

4 SECTION @ ADMIN
 3/8" = 1'-0"

5 TYPICAL INTERIOR PARTITION TYPES
 1 1/2" = 1'-0"



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REVISIONS			NO.	DATE	REMARKS
			A	5/6/20	FINAL BRIDGING DOCUMENTS

EXP: 11/30/20
 SUSAN A THAYER
 001-022091
 ARCHITECT
 STATE OF ILLINOIS

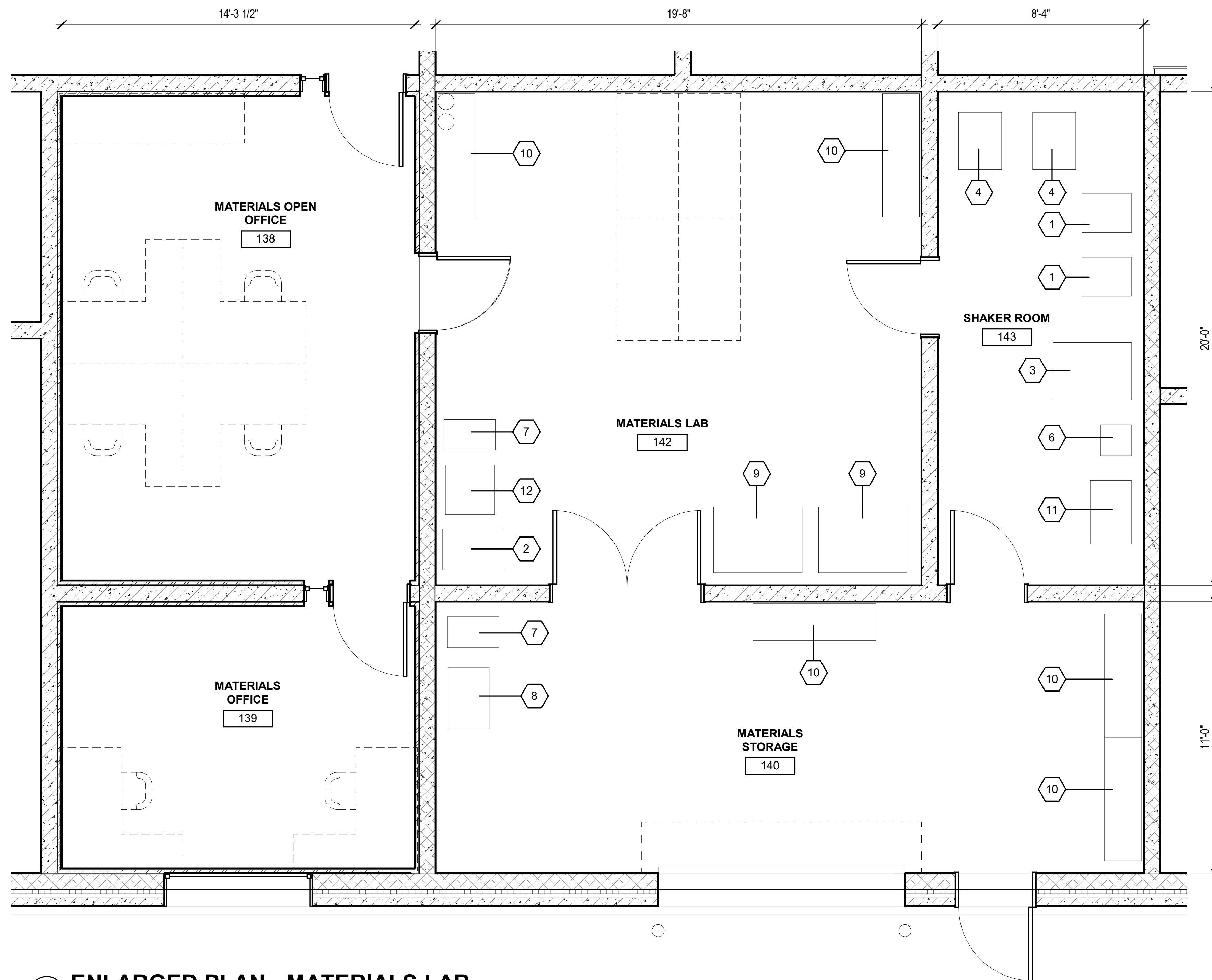
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 312.432.4184
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Capital Development Board
 Building a Better Illinois

State of Illinois
JB PRITZKER, GOVERNOR
 Illinois Capital Development Board

ENLARGED WALL SECTIONS
 STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
 DATE 05/06/2020
 SHEET NO. **A2-2**
 OF () SHEETS



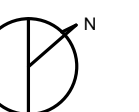
EQUIPMENT LAYOUT - EQ SHOWN FURNISHED AND INSTALLED BY IDOT

Key #	Equipment Name	Qty	Loading Bay EQ	Main Lab EQ	Shaker Room EQ	Model	Dimensions
1	Gilson Silent Sifter II	2			2	SS-22/SS-22F	19"W x 24"D x 58"H
2	Humboldt Aggregate Washer Heavy Duty	1		1 next to sink		H-3949/H-3949.5F	30"W x 20"D x 32"H
3	Gilson Test-Master Testing 6 Tray Screen	1			1	TMS/TMSF	28"W x 35"D x 50"H
4	Gilson Screen Tray Storage Rack (2)	2			2	TSA-156	20.3"W x 27.7"D x 23.1"H
5	Gilson Adjustable Sieve Rack (2)	2		2 1 at each wrkstn, wall-mtd		SSA-822	36.25"W x 13"D x 15.75"H
6	A&D FG-K Bench/Platform Scale	1			1 close to Test-Master	AD-150PA	15"W x 18.3"D x 4.6"H
7	A&D Industrial High Capacity Balance (4)	4	1 w/stand	3 1 next to sink, 2 at wrkstns		AD-12KA	13.5"W x 15.5"D x Adj.H
8	Gilson Universal Sample Splitter	1	1			SP-1	29"W x 19"D x 39"H
9	Despatch Forced Convection Benchtop Oven (2)	2		2		LBB2-18	42"W x 32"D x 51"H
10	Wire Shelving Unit (2)	2		2		GAU 32V422	60"W x 18"D x 74"H
11	Clean-N-Weigh Accessory	1			1	TSA-167	30.5"W x 19.5"D x 30.5"H
12	Utility Sink	1		1 next to Aggregate Washer		TBD	24" W x 24" D
Column Totals:		20	2	11	7		
Totals:		20		20			

1 ENLARGED PLAN - MATERIALS LAB
3/8" = 1'-0"

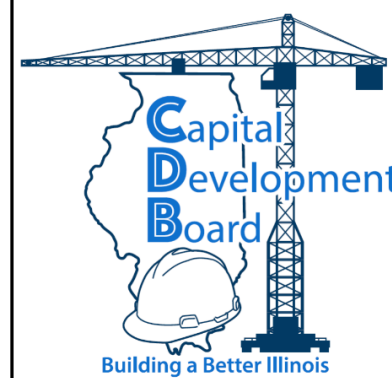
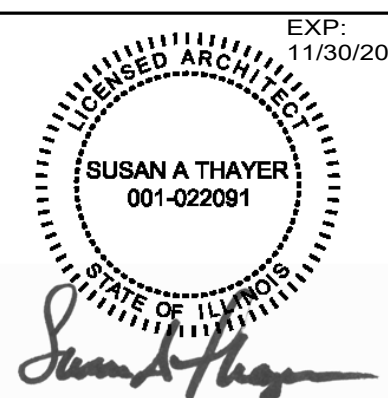
FLOOR PLAN NOTES

- ALL FURNITURE AND EQUIPMENT PROVIDED BY IDOT UNLESS NOTED OTHERWISE.
- LOCKERS AND BENCHES PROVIDED BY IDOT WITH 20% TO MEET ADA REQUIREMENTS.
- SHAKER ROOM TO BE ACOUSTICALLY SEPARATED FROM ADJACENT SPACES.
- REFER TO LIFE SAFETY PLAN FOR FIRE RATING REQUIREMENTS.
- ROOM FINISH SCHEDULE, SEE SHEET A1-0.
- DOOR SCHEDULE, SEE SHEET A-5-1.
- WALL SECTIONS, SEE SHEET A2-2.
- PROVIDE BOLLARDS AT ALL OVERHEAD DOORS AND BUILDING CORNERS. SEE CIVIL DRAWINGS FOR DETAILS.
- CONTRACTOR TO COORDINATE CODE REQUIRED SIZES FOR CONCRETE PADS OF MEP EQUIPMENT. SEE MEP DRAWINGS.
- MEP COMPONENTS, INCLUDING BUT NOT LIMITED TO CONDUIT AND PIPES/DOWNSPOUTS ARE SHOWN ON ARCHITECTURAL PLANS FOR REFERENCE ONLY. NOT ALL PENETRATIONS AND MEP COMPONENTS ARE SHOWN. CONTRACTOR TO COORDINATE AND ADJUST CHASES AND COLUMN ENCLOSURES AS REQUIRED TO FIT MEP COMPONENTS UPON ARCHITECT'S APPROVAL.



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A	5/6/20	FINAL BRIDGING DOCUMENTS	ST	APPROVED

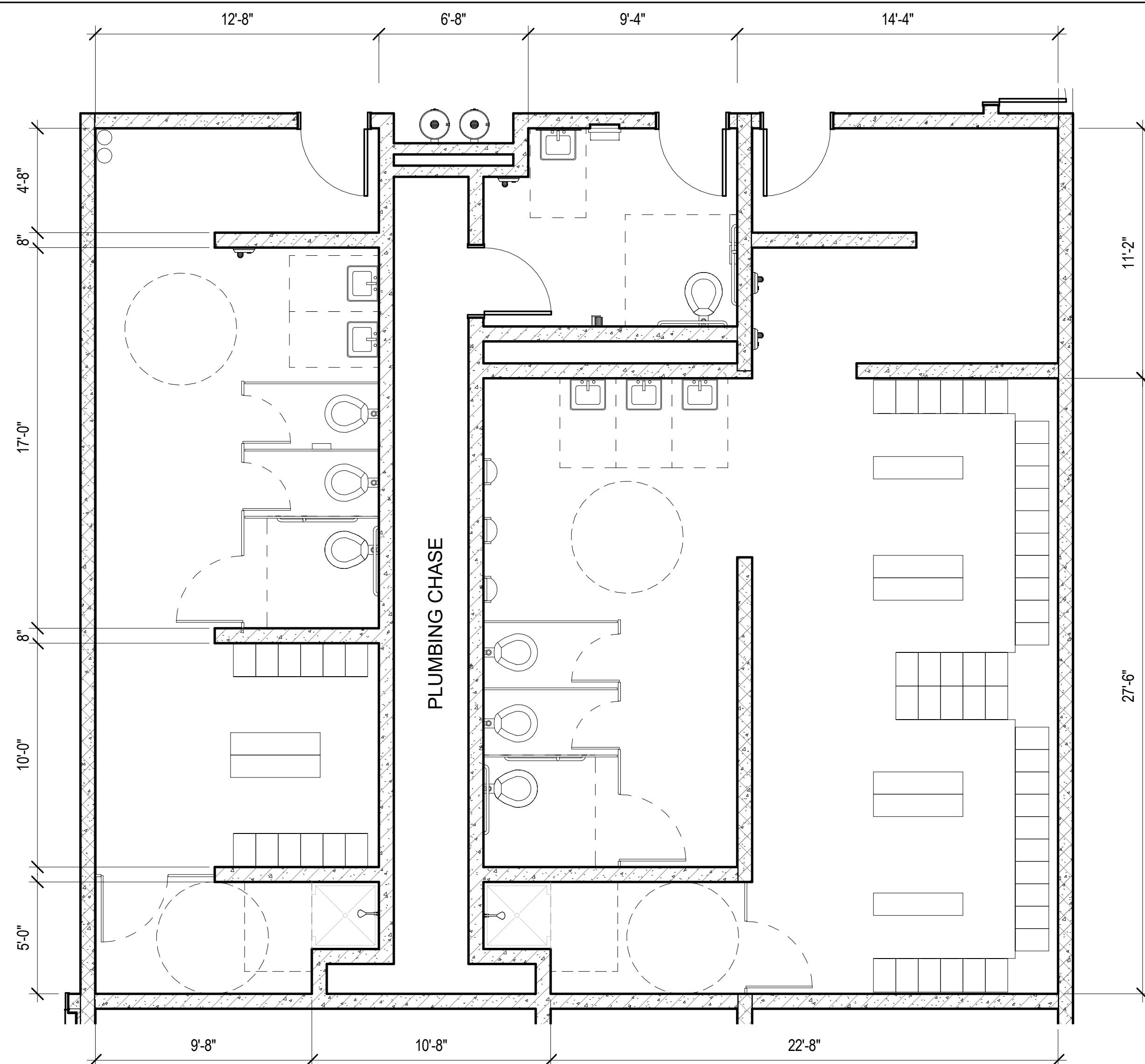


State of Illinois
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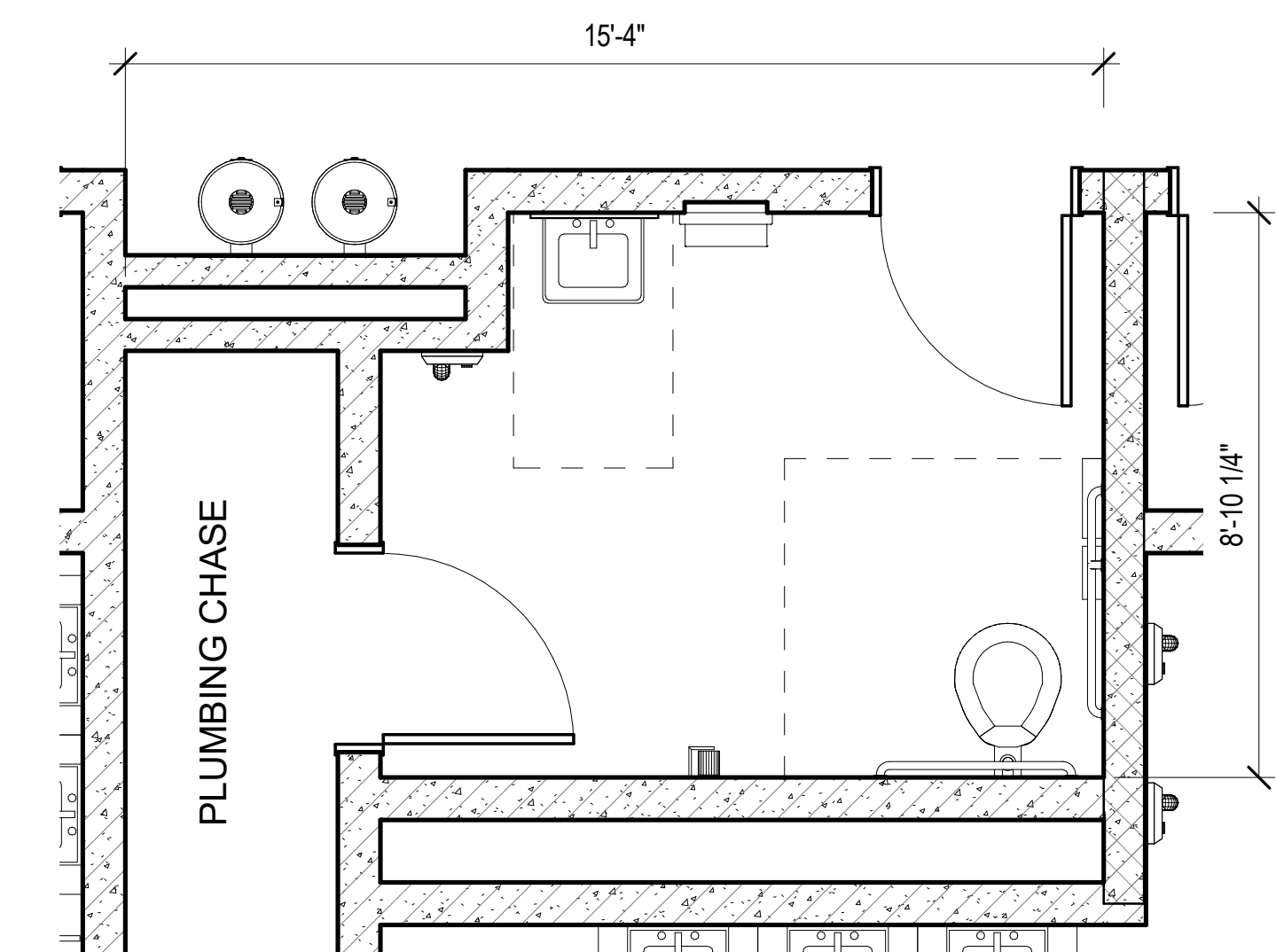
ENLARGED PLANS

STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO.
630-128-005
DATE
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SHEET NO.
A3-1
OF () SHEETS



1 LOCKER ROOM FLOOR PLANS
1/4" = 1'-0"



6 ADA TOILET ROOM PLAN
3/8" = 1'-0"

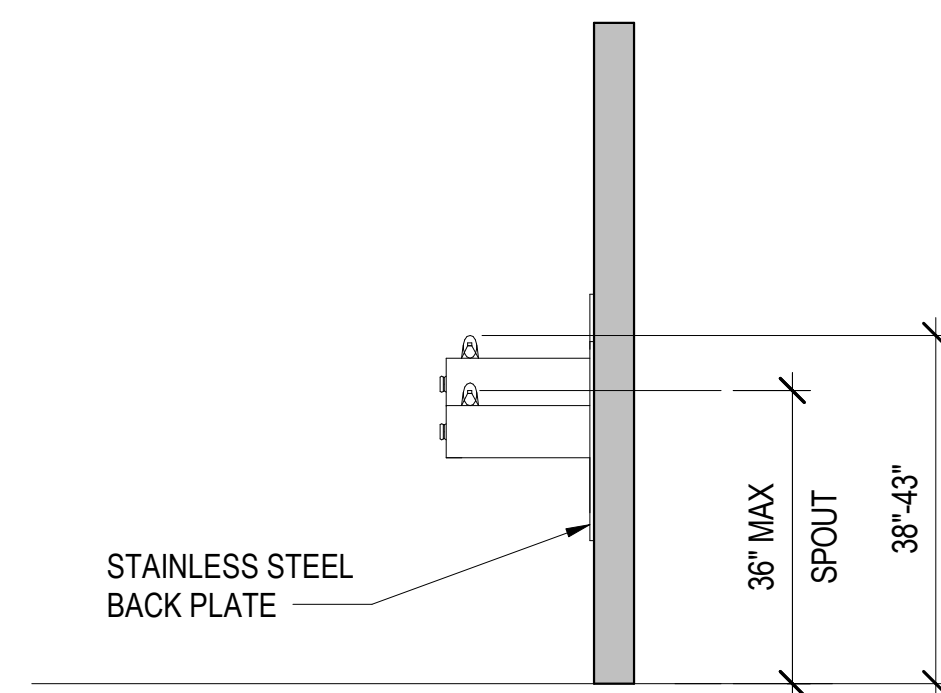
TOILET ACCESSORIES MOUNTING HEIGHTS

THE FOLLOWING FIXTURES ARE PROVIDED BY THE DESIGN-BUILDER

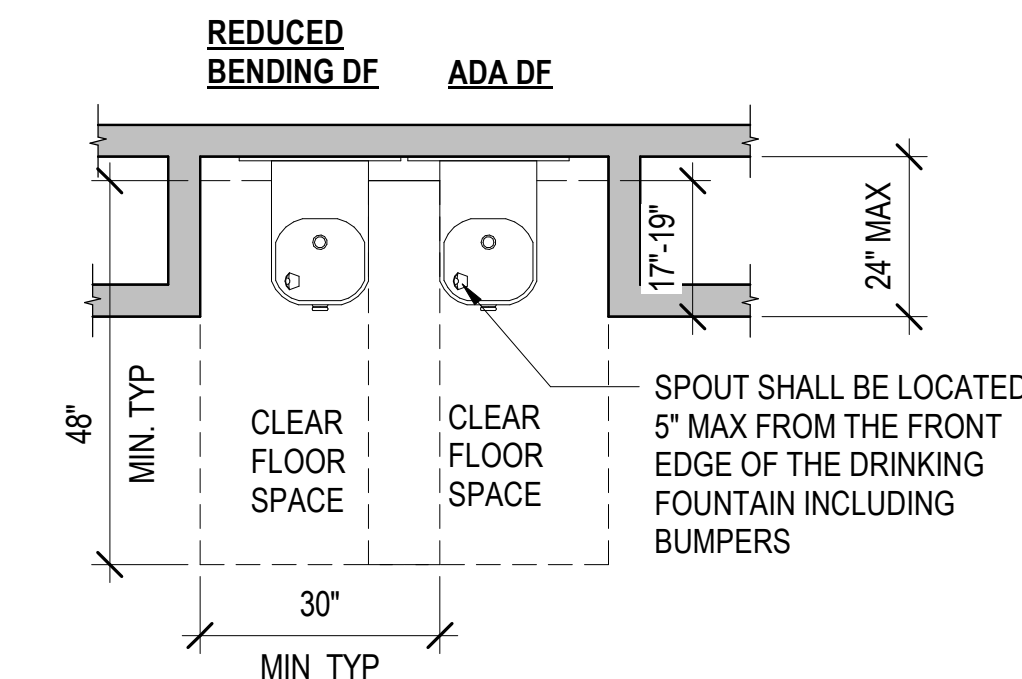
WATER CLOSET	STANDARD TOILET SEAT HEIGHT 15" AFF, 18" AFF FOR ADA TOILET CENTERLINE OF TOILET 18", TYP
LAVATORY	MOUNT AT 34" AFF RIM HEIGHT FOR BOTH STANDARD AND ADA KNEE SPACE: 27" AFF BOTTOM OF APRON: 29" AFF
URINAL	STANDARD URINAL HEIGHT 024" AFF, 17" AFF FOR ADA URINAL
HAND DRYER	MOUNT AT 44" AFF TO HIGHEST OPERABLE PART
MIRROR	MOUNT AT 40" AFF TO BOTTOM OF REFLECTIVE SURFACE
VERTICAL GRAB BARS	MOUNT AT 40" TO BOTTOM OF BAR
SIDE WALL/REAR WALL GRAB BARS	MOUNT AT 35" AFF TO TOP OF BAR

THE FOLLOWING ACCESSORIES ARE PROVIDED BY IDOT

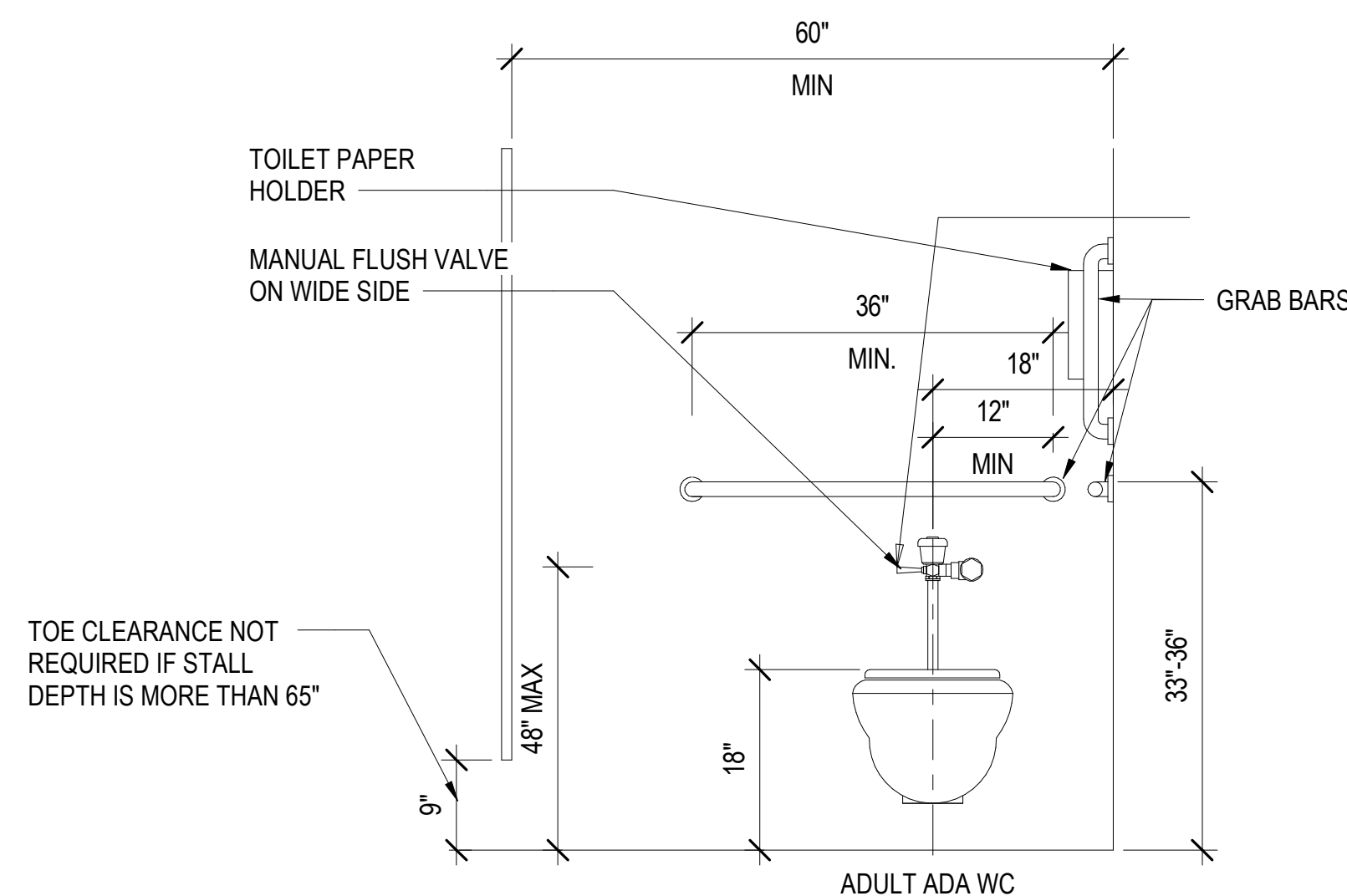
TOILET PAPER DISPENSER	MOUNT AT 47" MAX TO OUTLET OF DISPENSER
SOAP DISPENSER	MOUNT AT 44" AFF TO HIGHEST OPERABLE PART
COAT HOOK	MOUNT AT 47" AFF TO TOP



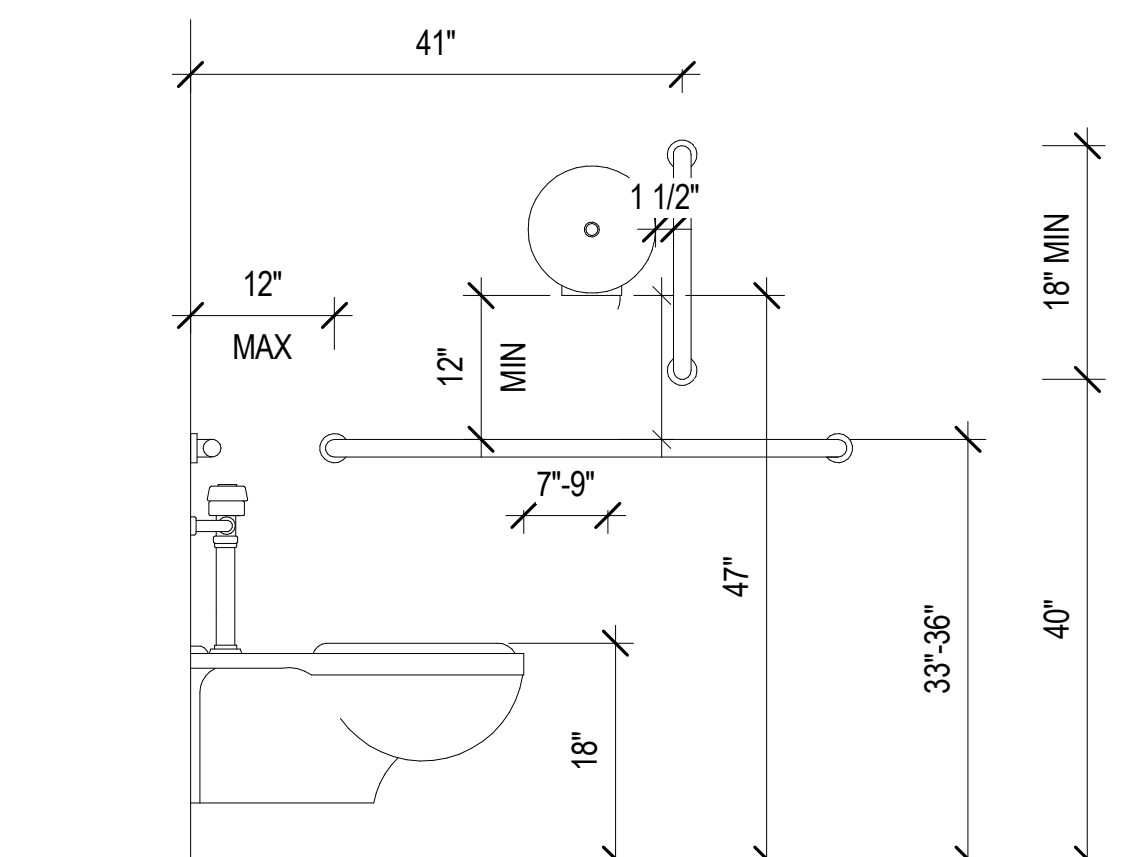
2 ADA DRINKING FOUNTAIN ELEVATION
1/2" = 1'-0"



3 ADA DRINKING FOUNTAIN PLAN
1/2" = 1'-0"



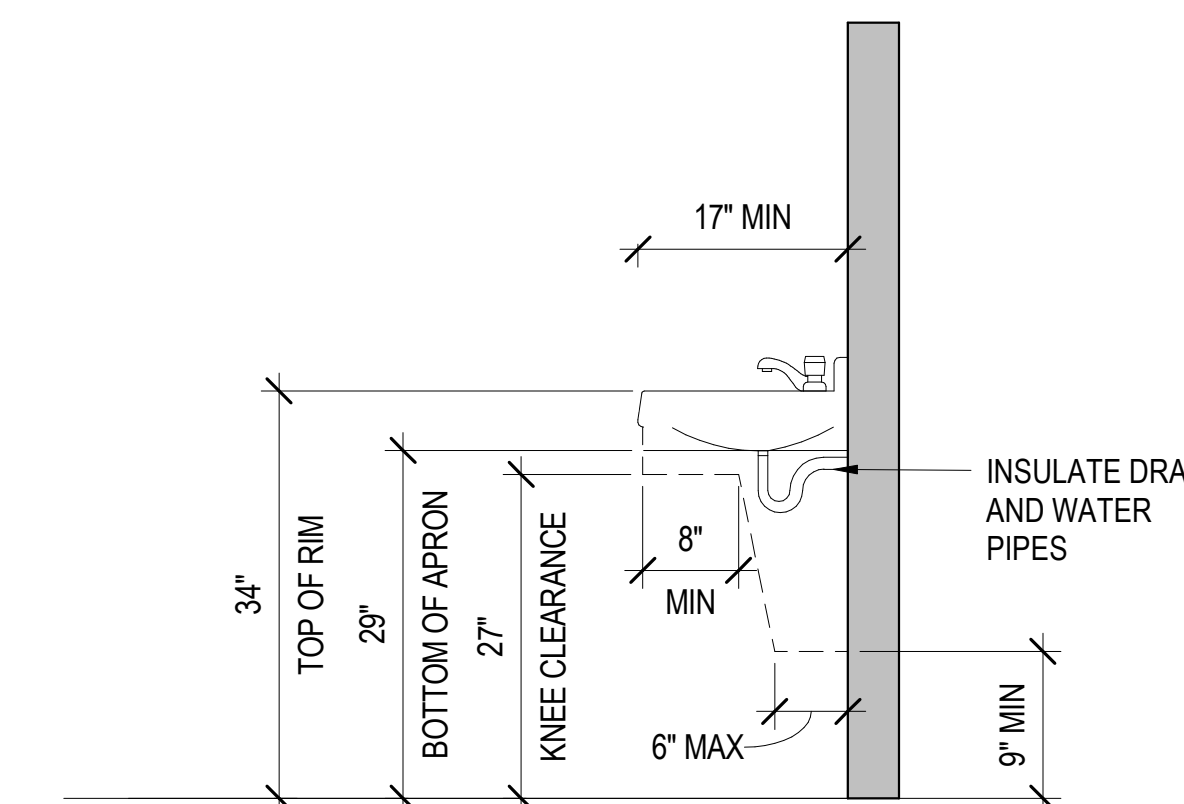
4 ADA STALL FRONT ELEVATION
3/4" = 1'-0"



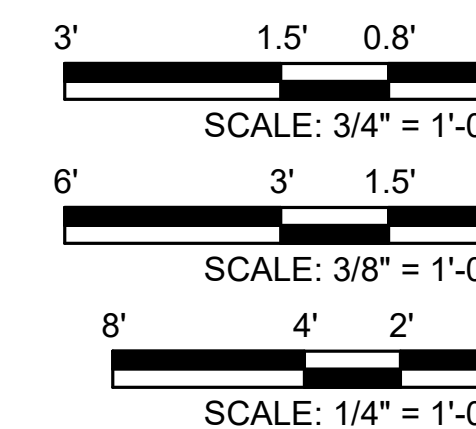
5 ADA STALL SIDE ELEVATION
3/4" = 1'-0"

FLOOR PLAN NOTES

- ALL FURNITURE AND EQUIPMENT PROVIDED BY IDOT UNLESS NOTED OTHERWISE.
- LOCKERS AND BENCHES PROVIDED BY IDOT WITH 20% TO MEET ADA REQUIREMENTS.
- SHAKER ROOM TO BE ACOUSTICALLY SEPARATED FROM ADJACENT SPACES.
- REFER TO LIFE SAFETY PLAN FOR FIRE RATING REQUIREMENTS.
- ROOM FINISH SCHEDULE, SEE SHEET A1-0.
- DOOR SCHEDULE, SEE SHEET A-5-1.
- WALL SECTIONS, SEE SHEET A2-2.
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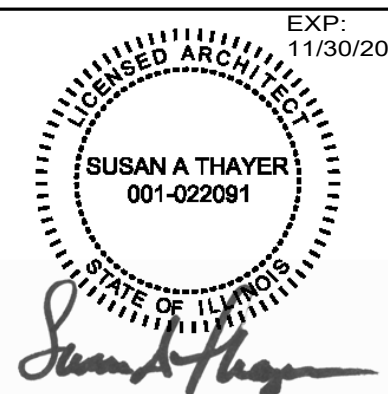


7 ACCESSIBLE LAVATORY, TYP
3/4" = 1'-0"



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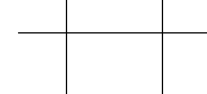
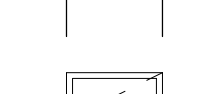
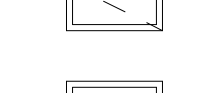
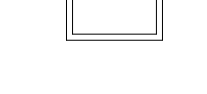

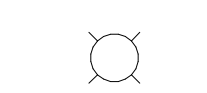
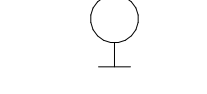
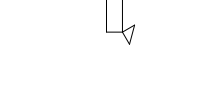
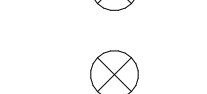

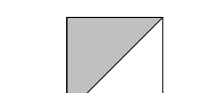
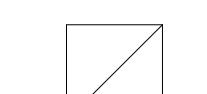

ENLARGED PLANS

STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO.
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RCP LEGEND

-  GWB CEILING, PTD
-  2x2 ACT CEILING
-  2x2 CEILING ACCESS PANEL
-  2x2 LAY-IN LIGHT FIXTURE; REF ELEC DWGS
-  PENDANT LIGHT FIXTURE; REF ELEC DWGS
-  RECESSED DOWNLIGHT FIXTURE (CLG MTD); REF ELEC DWGS
-  PENDANT LIGHT FIXTURE (CLG MTD); REF ELEC DWGS
-  SCONCE LIGHT FIXTURE (WALL MTD); REF ELEC DWGS
-  EMERGENCY LIGHT FIXTURE; REF ELEC DWGS
-  EXIT SIGN (CLG MTD); REF ELEC DWGS
-  EXIT SIGN (WALL MTD); REF ELEC DWGS
-  OCCUPANCY SENSOR; REF ELEC DWGS
-  SUPPLY AIR DIFFUSER; REF MECH DWGS
-  RETURN/EXHAUST AIR DIFFUSER; REF MECH DWGS

RCP NOTES

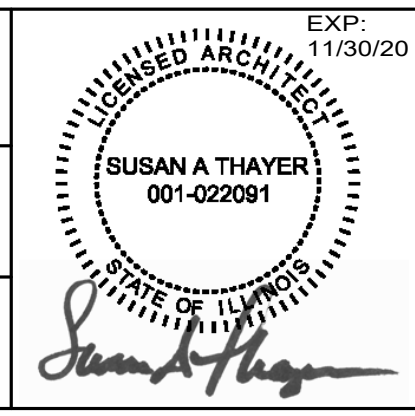
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4. PROVIDE ACCESS PANELS IN CEILING AND WALLS AS REQUIRED. SEE MECHANICAL DRAWINGS AND SPECS FOR MORE INFORMATION. OBTAIN APPROVAL OF LOCATIONS DURING ACCESS PANEL PRE-INSTALLATION CONFERENCE.
5. DESIGN-BUILDER TO COORDINATE ALL MEP AND ARCHITECTURAL CEILING PLAN ELEMENTS.
6. ALL GYPSUM BOARD AND CEMENT JOINTS CEILINGS AND SOFFITS SHALL BE PAINTED.
7. PROVIDE CEILING & SOFFIT CONTROL JOINTS AS SHOWN.
8. ALL ACT TO BE CENTERED IN SPACE UNO.
9. ALL ACT CEILINGS TO BE 9'-0" AFF UNO.



1 REFLECTED CEILING PLAN - WEST
1/8" = 1'-0"

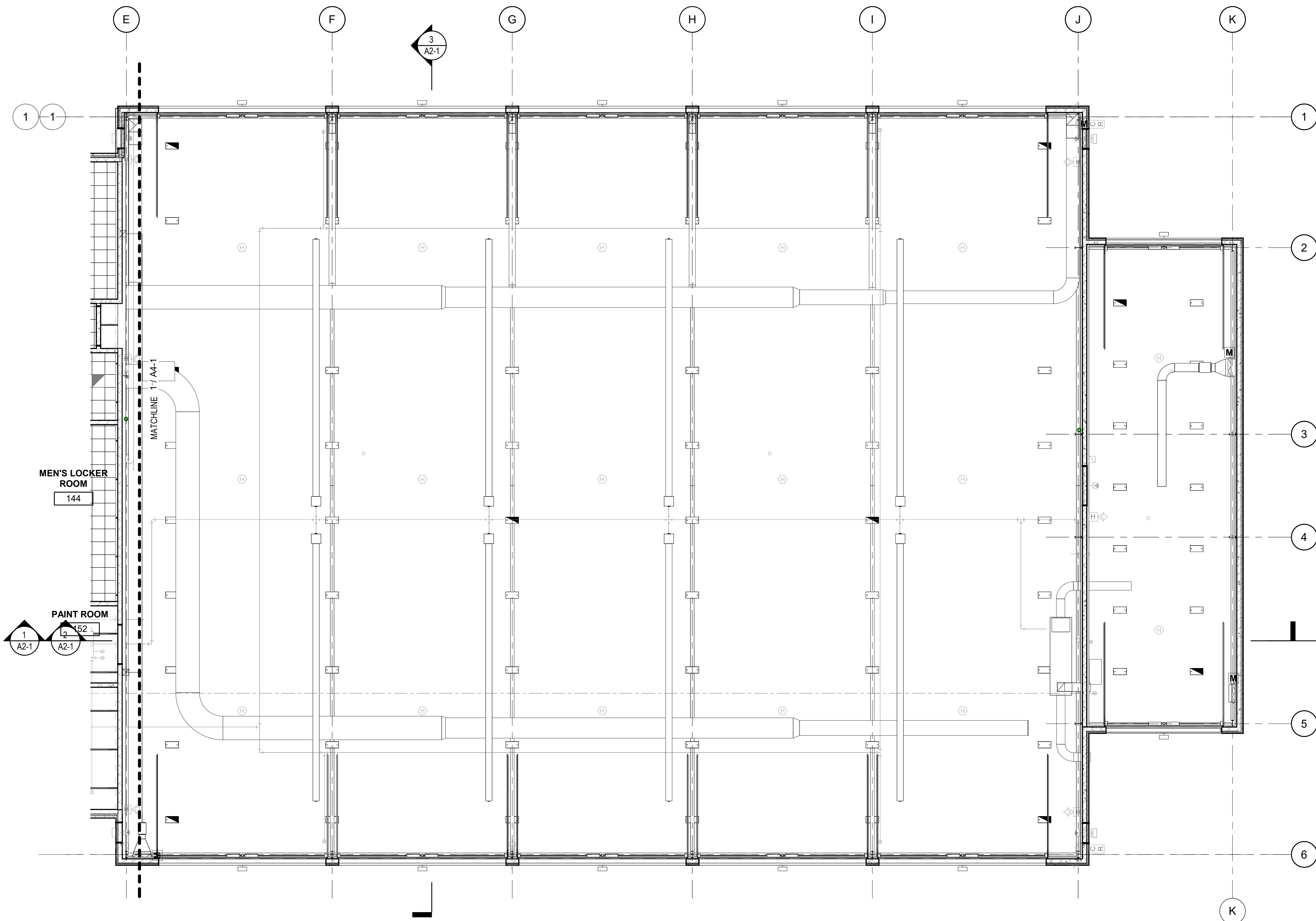
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REVISIONS			DRAWN	PREPARED	EXP.
NO.	DATE	REMARKS	HW		11/30/20
			TRACED	APPROVED	
			CHECKED	APPROVED	
A	5/6/20	FINAL BRIDGING DOCUMENTS	ST	APPROVED	




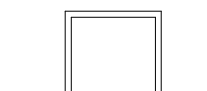
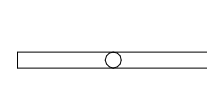
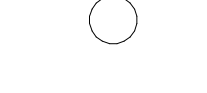
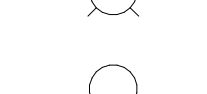

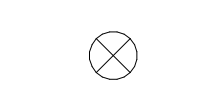
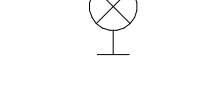

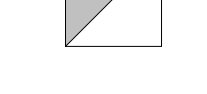




State of Illinois
JB PRITZKER, GOVERNOR
Illinois Capital Development Board

REFLECTED CEILING PLAN - WEST		PROJECT NO. 630-128-005
STEVENSON YARD MAINTENANCE FACILITY BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION) ILLINOIS DEPARTMENT OF TRANSPORTATION MCCOOK, COOK COUNTY, ILLINOIS 60525		DATE 05/06/2020
		SHEET NO. A4-1
		OF () SHEETS



RCP LEGEND

-  GWB CEILING, PTD
-  2x2 ACT CEILING
-  2x2 CEILING ACCESS PANEL
-  2x2 LAY-IN LIGHT FIXTURE; REF ELEC DWGS
-  PENDANT LIGHT FIXTURE; REF ELEC DWGS
-  RECESSED DOWNLIGHT FIXTURE (CLG MTD); REF ELEC DWGS
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RCP NOTES

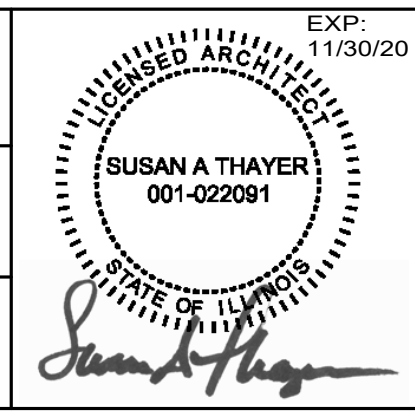
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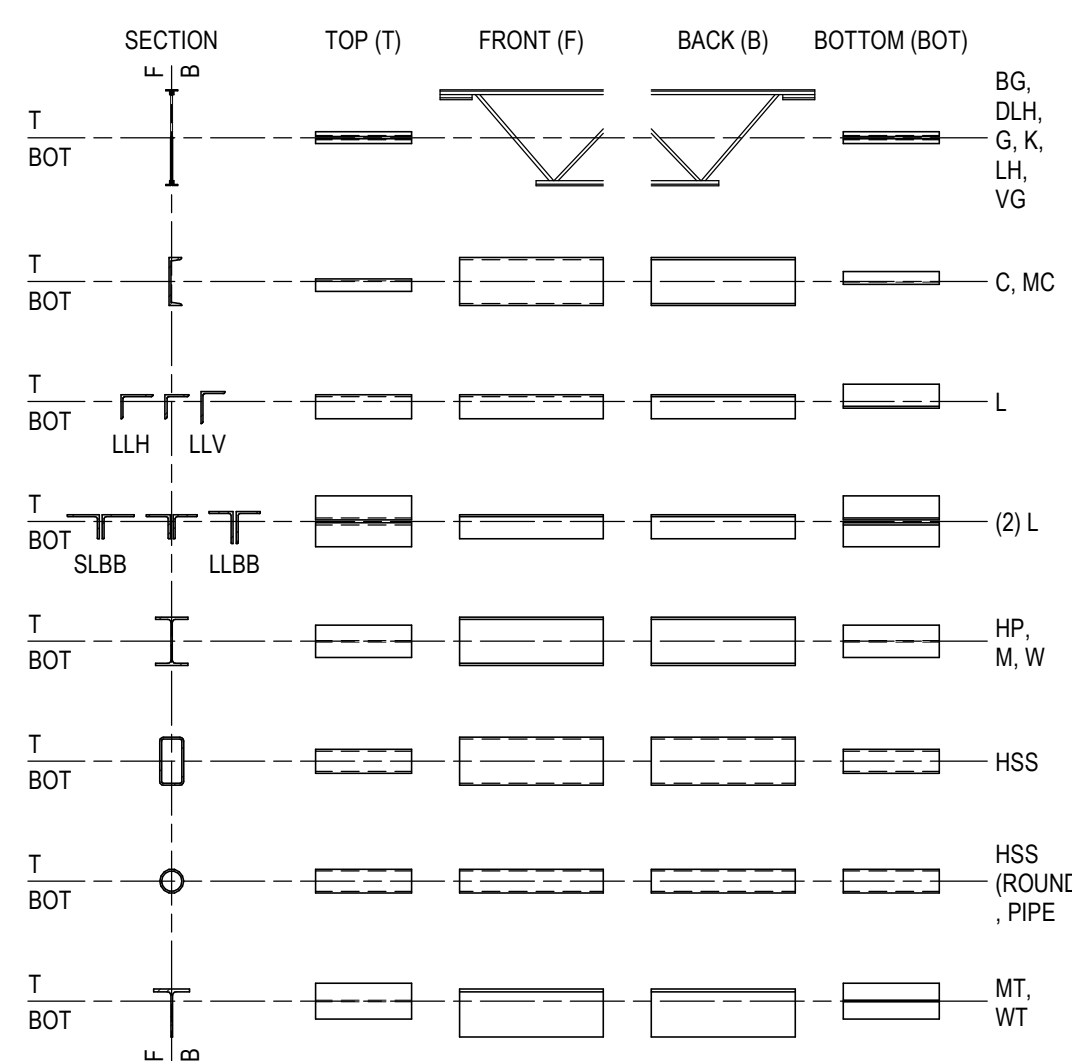
REVISIONS			DRAWN	PREPARED	EXP.
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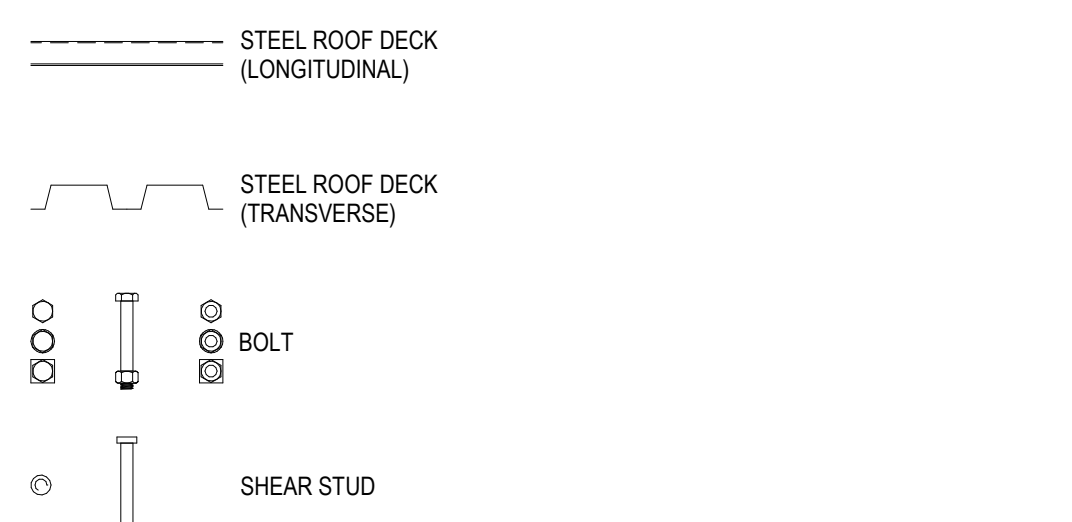
State of Illinois
JB PRITZKER, GOVERNOR
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REFLECTED CEILING PLAN - EAST		PROJECT NO. 630-128-005
STEVENSON YARD MAINTENANCE FACILITY BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION) ILLINOIS DEPARTMENT OF TRANSPORTATION MCCOOK, COOK COUNTY, ILLINOIS 60525		DATE 05/06/2020
		SHEET NO. A4-2
		OF () SHEETS

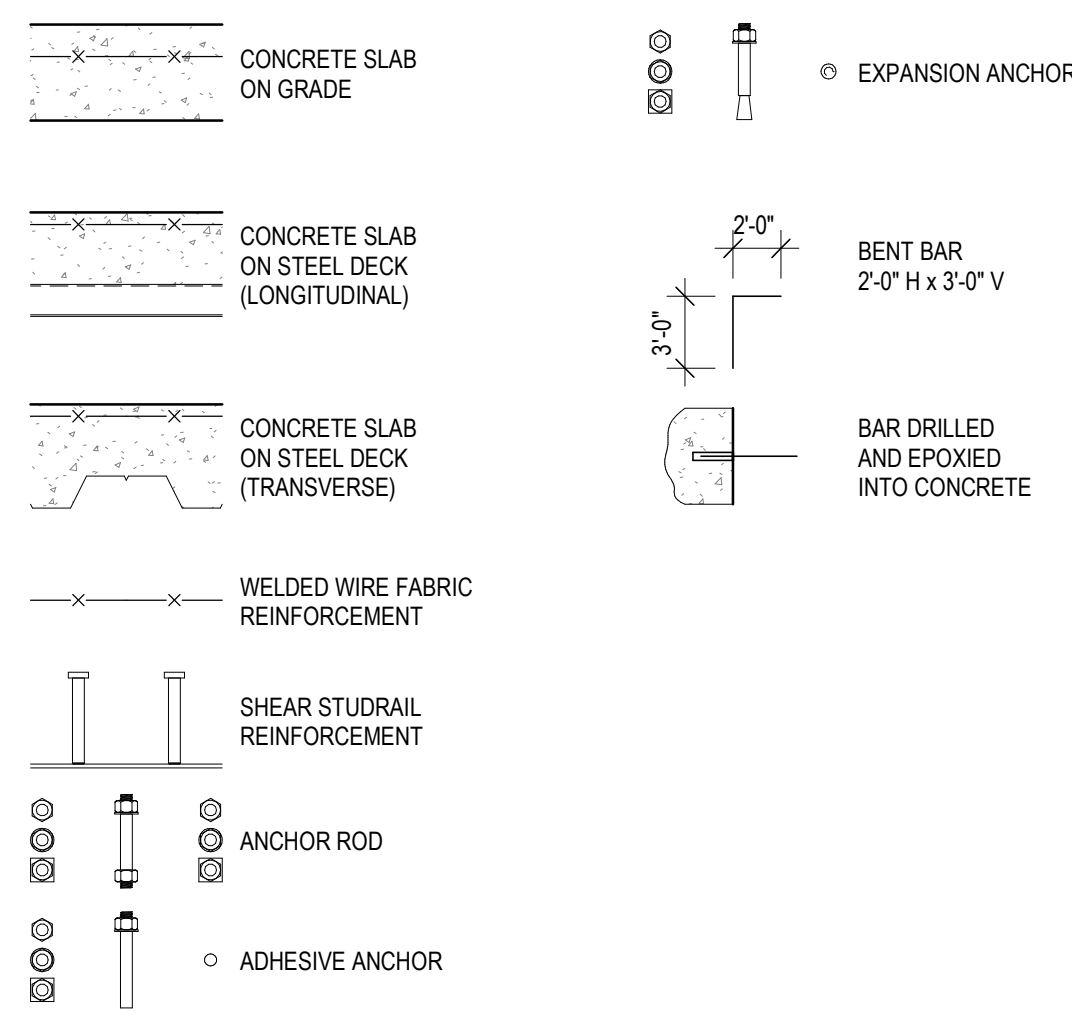
STEEL SHAPES LEGEND



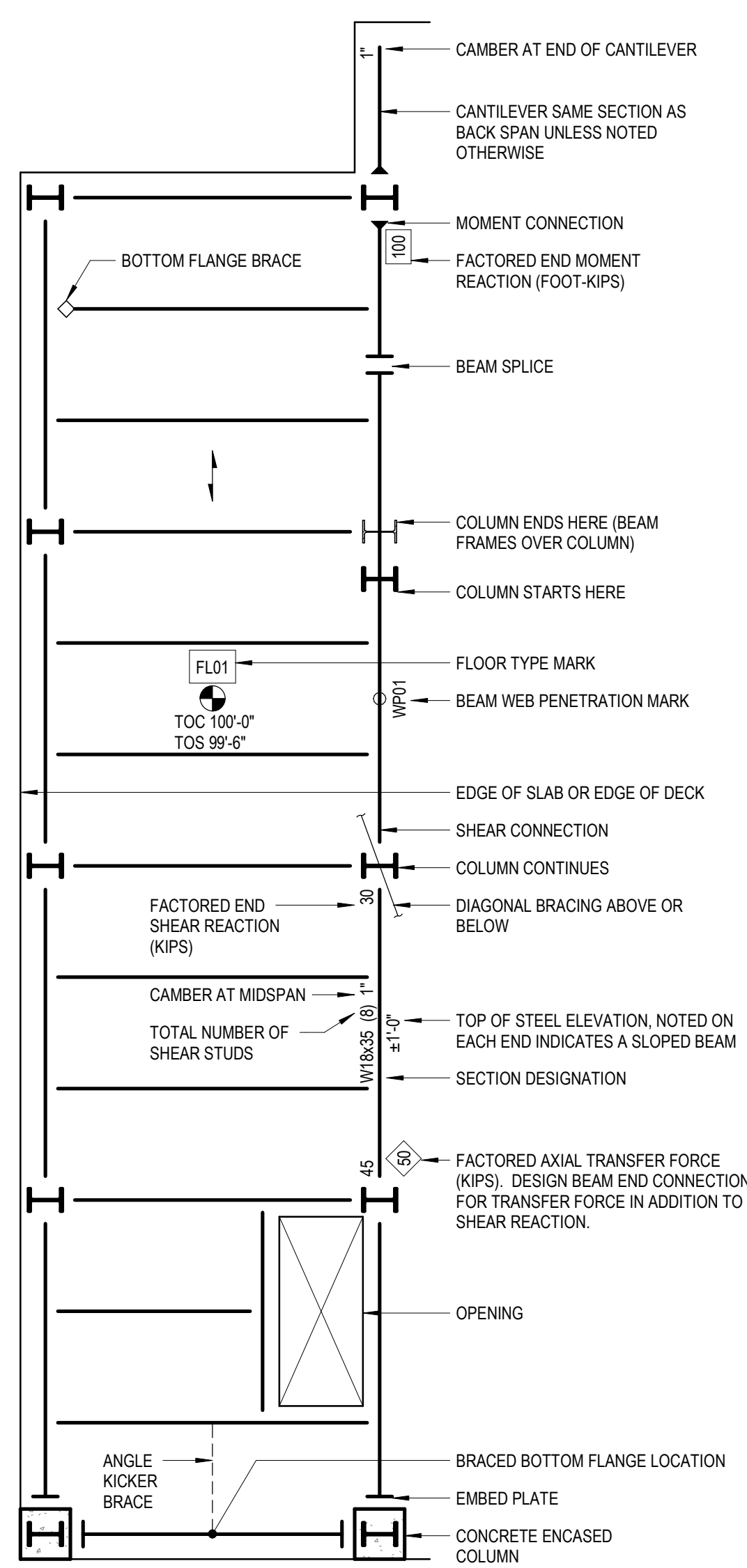
STEEL LEGEND



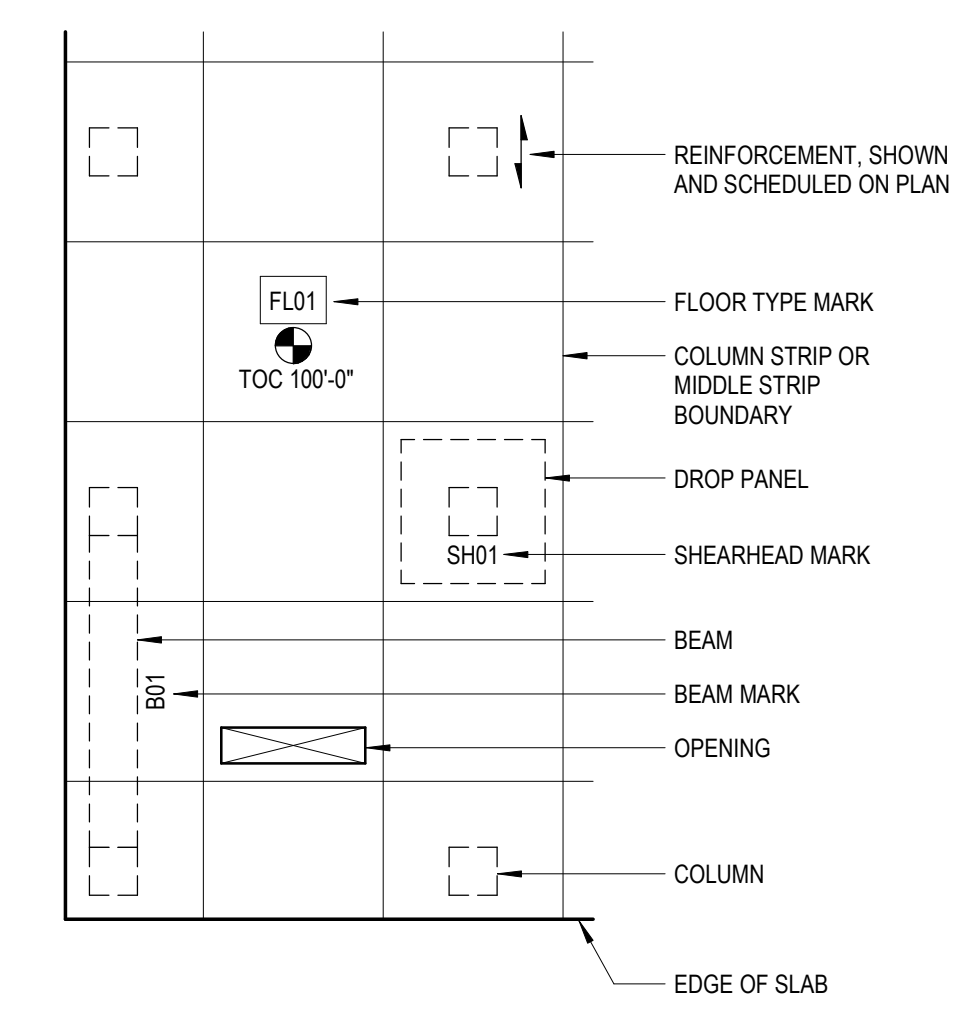
CONCRETE LEGEND



STEEL FRAMING PLAN LEGEND



CONCRETE TWO-WAY FLAT SLAB FRAMING PLAN LEGEND



VIEW LOCATION LEGEND

D1	D2	D3	D4	D5	D6
C1	C2	C3	C4	C5	C6
B1	B2	B3	B4	B5	B6
A1	A2	A3	A4	A5	A6

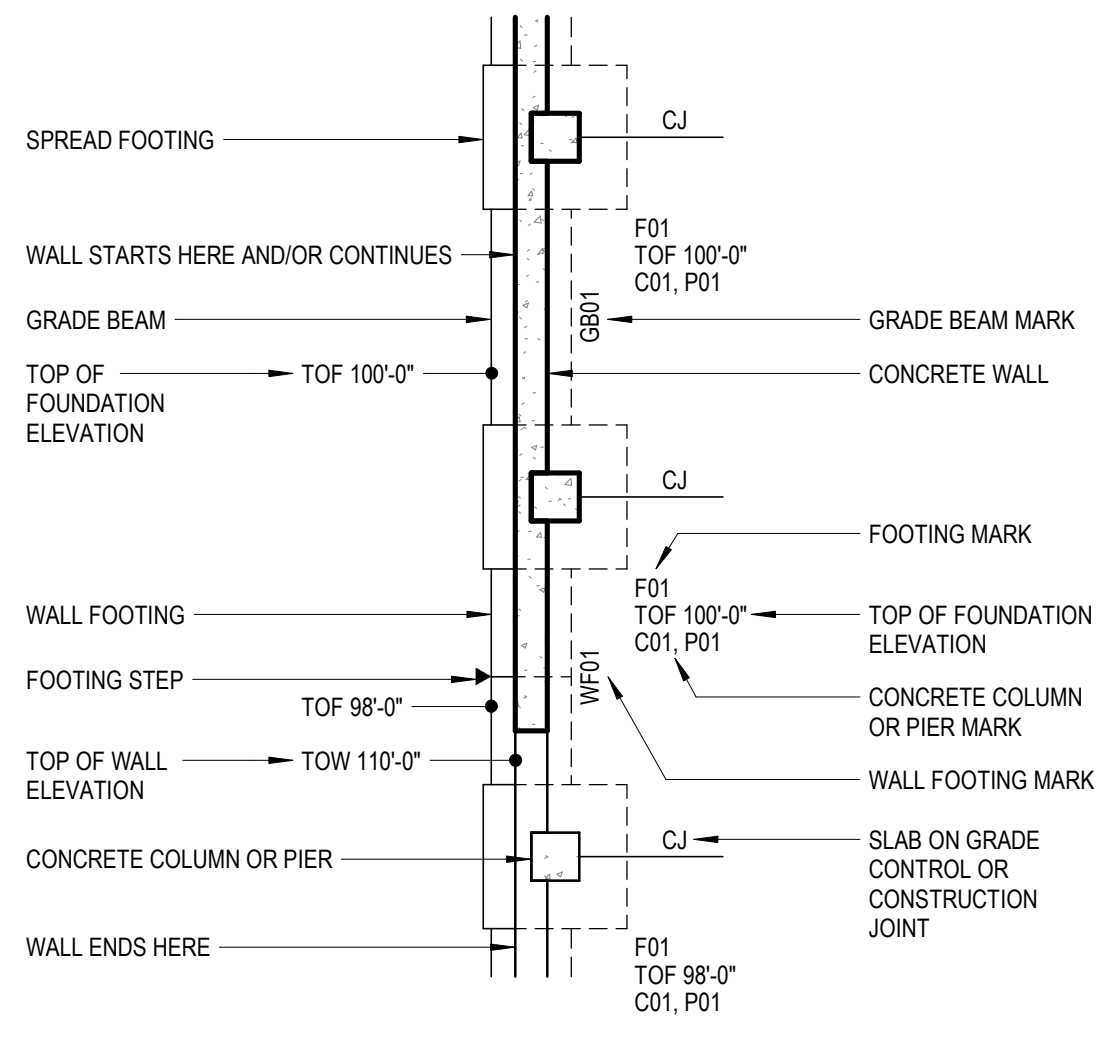
SHEET INDEX

- S1.0 GENERAL NOTES
- S1.1 GENERAL INFORMATION
- S2.0 LOWER LEVEL PLAN
- S2.1 LOW ROOF FRAMING PLAN
- S2.2 HIGH ROOF FRAMING PLAN
- S3.0 GENERAL FOUNDATION DETAILS
- S3.1 FOUNDATION DETAILS
- S4.0 GENERAL STEEL FRAMING DETAILS
- S4.1 GENERAL MASONRY DETAILS
- S4.2 STEEL FRAMING DETAILS
- S5.0 SCHEDULES AND NOTES

ABBREVIATIONS

1WAY	ONE-WAY	LD BRG	LOAD-BEARING
AB	ANCHOR BOLT	LHV	LONG DIMENSION VERTICAL
ADDL	ADDITIONAL	LL	LIVE LOAD
ADDM	ADDENDUM	LLBB	LONG LEG BACK TO BACK
AHU	AIR HANDLING UNIT	LLH	LONG LEG HORIZONTAL
ALT	ALTERNATE	LLV	LONG LEG VERTICAL
APPROX	APPROXIMATE	LVL	LAMINATED VENEER LUMBER
AR	AS REQUIRED	LVR	LOUVER
ARCH	ARCHITECT	M	MOMENT
		MAX	MAXIMUM
B PL	BASE PLATE	MBR	MEMBER
BB	BACK TO BACK	MC	MOMENT CONNECTION
BC	BOTTOM CHORD	MD	METAL DECK
BF	BOTH FACES	MECH	MECHANICAL
BM	BEAM	MEZZ	MEZZANINE
BO	BOTTOM OF (REFER TO TOP OF)	MFR	MANUFACTURER
BOT	BOTTOM	MFR REC	MANUFACTURER'S RECOMMENDATION
BRDG	BRIDGING	MID	MIDDLE
BRG PL	BEARING PLATE	MIN	MINIMUM
BS	BOTH SIDES	MISC	MISCELLANEOUS
BSMT	BASEMENT	ML	MONOLITHIC
BW	BOTH WAYS	MO	MASONRY OPENING
		MTL	METAL
		MULT	MULTIPLE
C	CHANNEL	N	NORTH
C TO C	CENTER TO CENTER	NF	NEAR FACE
CANTIL	CANTILEVER	NIC	NOT IN CONTRACT
CIP	CAST-IN-PLACE	NLB	NON-LOAD-BEARING
CJ	CONSTRUCTION JOINT	NO	NUMBER
CJ	CONTROL JOINT	NOM	NOMINAL
CL	CENTER LINE	NS	NEAR SIDE
CMU	CONCRETE MASONRY UNIT	NTS	NOT TO SCALE
COL	COLUMN		
CONC	CONCRETE	OC	ON CENTER
CONN	CONNECT	OD	OUTSIDE DIAMETER
CONSTR	CONSTRUCTION	OF	OF
CONT	CONTINUE/CONTINUOUS	OPNG	OPENING
CONTR	CONTRACTOR	OPH	OPPOSITE HAND
CPRS	COMPRESSIBLE	OPP	OPPOSITE
CTRL	CONTROL	OPT	OPTIONAL
CU	CUBIC	OUP	OUT TO OUT
CU FT	CUBIC FEET		
CU IN	CUBIC INCH	PCC	PRECAST CONCRETE
CU YD	CUBIC YARD	PCF	POUNDS PER CUBIC FOOT
		PL	PLATE
D	DEEP	PLF	POUNDS PER LINEAR FOOT
D	DEPTH	PLYWD	PLYWOOD
DBE	DECK BEARING ELEVATION	PRCST	PRECAST
DBL	DOUBLE	PRELIM	PRELIMINARY
DEG	DEGREE	PS CONC	PRESTRESSED CONCRETE
DET	DETAIL	PSF	POUNDS PER SQUARE FOOT
DEMO	DEMOLITION	PSI	POUNDS PER SQUARE INCH
DIA	DIAMETER	PT	POST-TENSIONED
DIAG	DIAGONAL	PT CONC	PRESSURE TREATED POST-TENSIONED CONCRETE
DIM	DIMENSION	QTY	QUANTITY
DIR	DIRECTION	R	RADIUS
DL	DEAD LOAD	RD	ROOF DRAIN
DWG	DRAWING	REF	REFERENCE
		REFIN	REINFORCE
E	EAST	REOD	REQUIRED
EA	EACH	REV	REVISION
EE	EACH END	RS	ROUGH SAWN
EE	EACH FACE	RTU	ROUGH TOP UNIT
EF	EACH FACE		
EJ	EXPANSION JOINT	S	SOUTH
EL	ELEVATION	SCHED	SCHEDULE
ELEC	ELECTRIC	SCHEM	SCHEMATIC
ELEV	ELEVATOR	SE	STRUCTURAL ENGINEER
ENGR	ENGINEER	SECT	SECTION
ENG	EDGE OF DECK	SF	SQUARE FOOT (FEET)
EOD	EDGE OF DECK	SHT	SHEET
EOS	EDGE OF GRATING	SIM	SIMILAR
EOW	EDGE OF WALL	SL	SLAB
EQ	EQUAL	SLBB	SHORT LEG BACK TO BACK
EQL SP	EQUALLY SPACED	SP	SUMP/PIT
EQIP	EQUIPMENT	SPCL	SPECIAL
EQUIV	EQUIVALENT	SPEC	SPECIFICATION
EW	EACH WAY	SQ	SQUARE
EXC	EXCAVATE	SQ IN	SQUARE INCH
EXIST, (E)	EXISTING	SQ YD	SQUARE YARD
EXP	EXPANSION	STD	STANDARD
EXP BT	EXPANSION BOLT	STF	STIFFENER
EXT	EXTERIOR	STL JST	STEEL JOIST
		STRUC	STRUCTURAL
		SYMM	SYMMETRICAL
FD	FLOOR DRAIN	T&B	TOP AND BOTTOM
FDTN	FOUNDATION	TB	THROUGH BOLT
FF	FAR FACE	TC	TOP CHORD
FLR	FLOOR	TEMJ	TOP ELEVATION MATCHES JOIST
FR	FRAME	TEMP	TEMPORARY
FS	FAR SIDE	THK	THICKNESS
FSTNR	FASTENER	THRU	THROUGH
FT	FEET	TOB	TOP OF BEAM
FTG	FOOTING	TOC	TOP OF CONCRETE
FUT	FUTURE	TOD	TOP OF DECK
		TOP	TOP OF DECK
GA	GAGE	TOG	TOP OF FOUNDATION
GALV	GALVANIZED	TOP	TOP OF PIER
GC	GENERAL CONTRACTOR	TOS	TOP OF STEEL
GLU LAM	GLUE LAMINATED WOOD	TOW	TOP OF WALL
GR BM	GRADE BEAM	TS	TUBE STEEL
GRTG	GRATING	TYP	TYPICAL
H	HIGH	UNO	UNLESS NOTED OTHERWISE
HDR	HEADER	VAR	VARIES
HGR	HANGER	VERT, V	VERTICAL
HORIZ, H	HORIZONTAL	VIF	VERIFY IN FIELD
HS	HIGH STRENGTH		
HSKPG	HOUSEKEEPING	W	WEST
HT	HEIGHT	W	WIDE
		W	WIDTH
I	MOMENT OF INERTIA	W/O	WITHOUT
ID	INSIDE DIAMETER	WBL	WOOD BLOCKING
IF	INSIDE FACE	WD	WOOD
INFO	INFORMATION	WF	WIDE FLANGE
INT	INTERIOR	WP	WORK POINT
		WT	WEIGHT
JST	JOIST	WWF	WELDED WIRE FABRIC
JST BRG	JOIST BEARING	WMM	WELDED WIRE MESH
K	KIP	YD	YARD
KB	KNEE BRACE		
KIP	THOUSAND POUNDS		
KLF	KIPS PER LINEAR FOOT		
KOP	KNOCK OUT PANEL		
KSF	KIPS PER SQUARE FOOT		
KSI	KIPS PER SQUARE INCH		
KWY	KEYWAY		
L	ANGLE		
LATL	LATERAL		
LB	FOUND		

FOUNDATION PLAN LEGEND



SYMBOL LEGEND

LINE	MATERIAL	REFERENCE	
— BEYOND	ALUMINUM	N	BREAK LINE
- - - CENTER, GRID	BRICK	NORTH INDICATOR	— SPAN DIRECTION INDICATOR
- - - - DEMOLITION	CONCRETE	A6 S-501	/// SLOPE INDICATOR
— EXISTING (HALFTONE)	CONCRETE MASONRY BLOCK	A1 S-201	/// STEP INDICATOR
- - - - HIDDEN	EARTH	D1 S-201	□ OPENING (FLOOR, ROOF OR WALL)
- - - - MATCHLINE	GRAVEL	C1	100'-0" ELEVATION INDICATOR
- - - - NEW (CUT)	GROUT	A6/S-501	⓪ KEYNOTE INDICATOR
- - - - NEW (PROJECTION)	WOOD STRUCTURAL PANEL	1	☁ REVISION CLOUD
- - - - OVERHEAD	STEEL	1	⚠ REVISION INDICATOR

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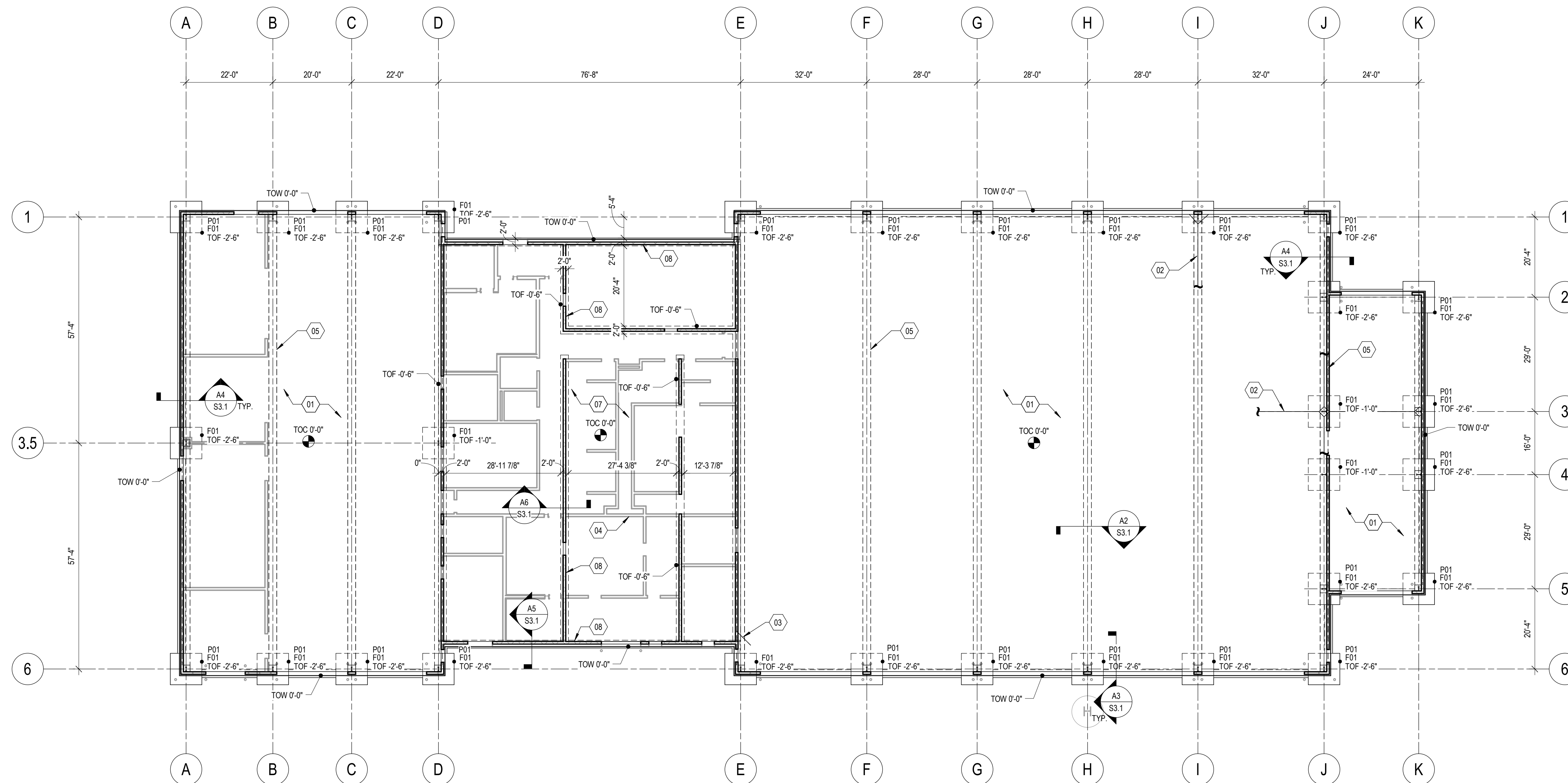
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		PROJECT NO. 630-128-005	DATE 01/31/2020
		SHEET NO. S1.1	OF () SHEETS

GENERAL SHEET NOTES

- SEE "GENERAL DETAILS" SHEET S3.0 FOR GENERAL DETAILS PERTAINING TO FOUNDATIONS AND SLABS ON GRADE TO BE USED UNLESS DETAILED OTHERWISE

SHEET KEYNOTES

- TYPICAL FLOOR = 8" CONCRETE SLAB ON GRADE REINFORCED WITH #4 BARS (EPOXY COATED) EACH WAY 1'8" AT 10" O.C. USE 12" MIN. OF DENSE GRADED CRUSHED LESTONE (SEE GEOTECH REPORT FOR MORE DETAIL) AND 15 MIL. VAPOR BARRIER. TOP OF CONCRETE SLAB ELEVATION = 0'-0" UNLESS NOTED OTHERWISE ON PLAN. SEE GEOTECH REPORT FOR FURTHER DETAIL.
- SLAB-ON-GRADE CONTROL JOINT OR CONSTRUCTION JOINT. REFER TO DETAIL B6/S3.0. CONTRACTOR TO SUBMIT CONTROL JOINT/CONSTRUCTION JOINT PLAN FOR APPROVAL. REFER TO SHEET S1.0 FOR MAXIMUM SPACING REQUIREMENTS.
- (2) #4 x 5'-0" LONG LOCATED 1" BELOW TOP OF SLAB ON GRADE. PROVIDE AT ALL SLAB ON GRADE RE-ENTRANT CORNERS. ALL LOCATIONS NOT SHOWN ON PLAN.
- NON-LOAD BEARING CMU WALL ON SLAB ON GRADE. COORDINATE WALL SIZE AND LOCATION WITH ARCHITECTURAL DRAWINGS. ALL LOCATIONS NOT SHOWN ON PLAN.
- (2) 3/4" TIE RODS ENCASED IN CONCRETE BELOW SLAB AT STEEL FRAMES, TYP.
- TYPICAL BAY CONTROL JOINT SPACING.
- OFFICE FLOOR = 5" CONCRETE SLAB ON GRADE REINFORCED WITH 4 LBS/CU YD OF SYNTHETIC MACRO FIBERS OVER 12" MIN. OF DENSE GRADED CRUSHED LESTONE (SEE GEOTECH REPORT FOR MORE DETAIL) AND 15 MIL. VAPOR BARRIER. TOP OF CONCRETE SLAB ELEVATION = 0'-0" UNLESS NOTED OTHERWISE ON PLAN.
- LOAD BEARING AND PERIMETER CMU WALLS WITH #4 BARS AT 32" O.C. VERTICAL REINFORCEMENT



CONCRETE PIER SCHEDULE

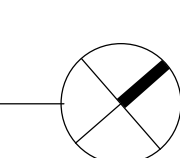
MARK	TOP OF PIER ELEVATION	TYPE	SIZE			REINFORCEMENT		REMARKS
			LENGTH, L	WIDTH, W	DIAMETER, D	VERTICALS	TIES	
P01	0'-0"		2'-0"	2'-0"		(8) #6	#3 @ 8"	SIZE AND DESIGN DEPENDENT ON COLUMN AND BASE PLATE SIZE

CONCRETE FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	REINFORCEMENT		REMARKS
				BOTTOM	TOP	
F01	8'-0"	8'-0"	2'-0"	6-#8		FOOTING SIZE BASED ON 3000 PSF ALLOWABLE SOIL BEARING CAPACITY

LOWER LEVEL

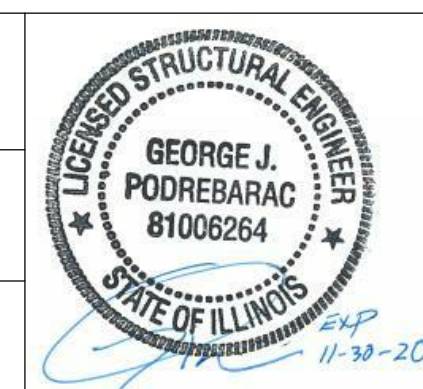
1/16" = 1'-0"



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PW	
TRACED	APPROVED
CHECKED	APPROVED
GP	



State of Illinois
JB PRITZKER, GOVERNOR
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LOWER LEVEL PLAN

STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

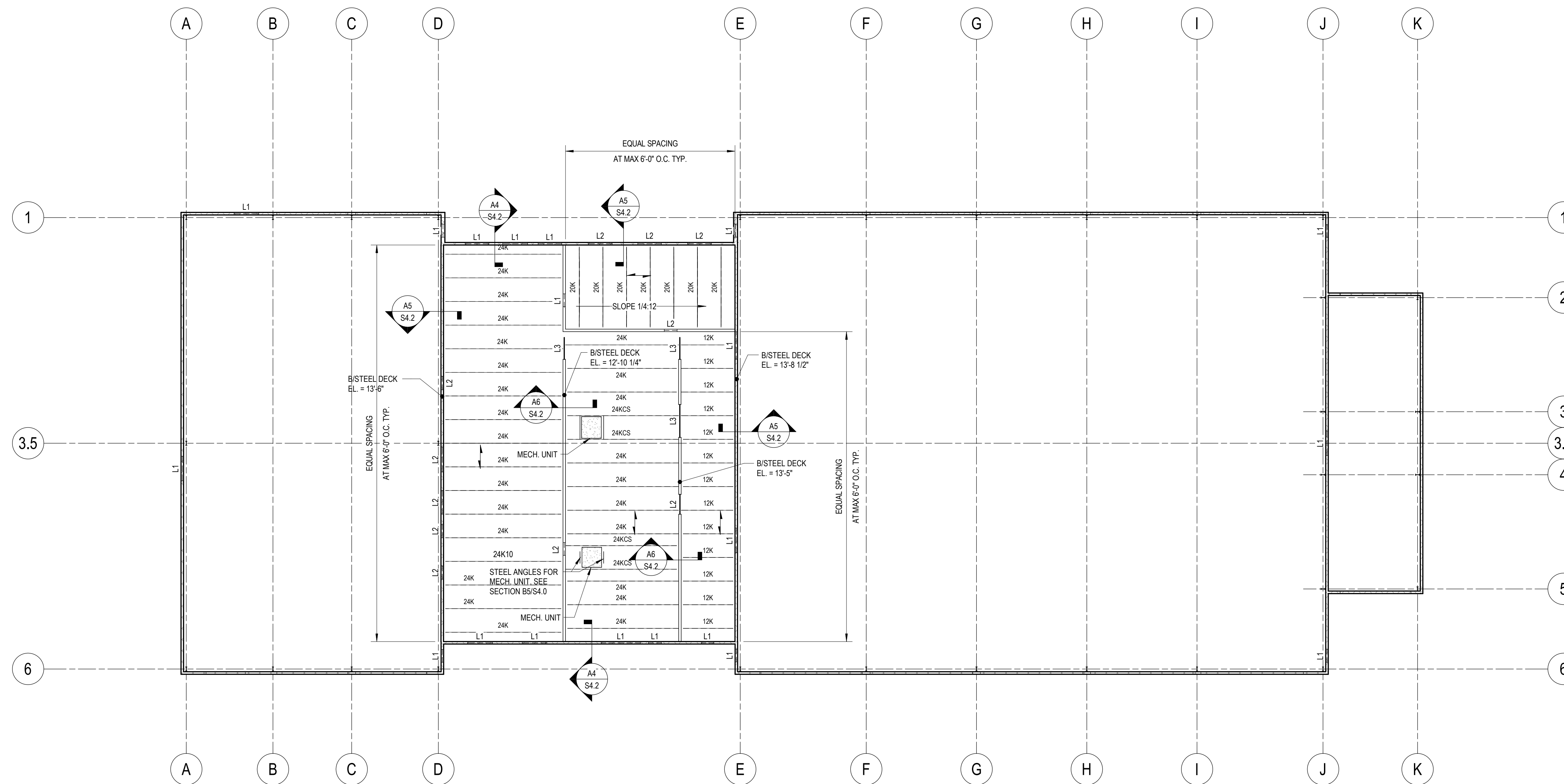
PROJECT NO. 630-128-005
DATE 01/31/2020
SHEET NO. S2.0
OF () SHEETS

GENERAL SHEET NOTES

- BOTTOM OF STEEL DECK ELEVATION NOTED ON PLAN.
- REFER TO PLUMBING DRAWINGS FOR ROOF DRAIN LOCATIONS.
- PROVIDE MECHANICAL SUBFRAME FOR ALL DUCT PENETRATIONS THROUGH ROOF. COORDINATE SIZE AND LOCATION WITH MECHANICAL CONTRACTOR.
- BEAMS SHALL BE EQUALLY SPACED IN A BAY UNLESS NOTED OTHERWISE ON PLAN.
- SEE "GENERAL DETAILS" SHEET S-004 FOR ADDITIONAL DETAILS PERTAINING TO ROOF DECK ON BEAMS
- "LX" INDICATES LINTEL SIZE. SEE SCHEDULE ON SHEET S5.0.

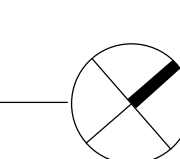
SHEET KEYNOTES

- 01 TYPICAL LOW ROOF = 1 1/2" x 20 GAGE METAL ROOF DECK



LOW ROOF FRAMING PLAN

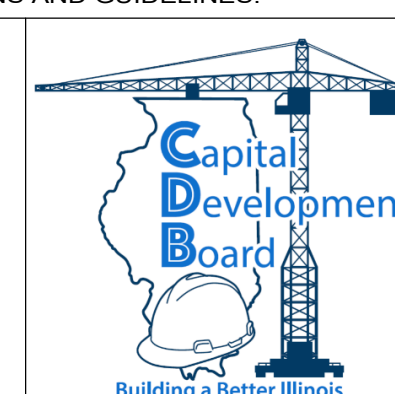
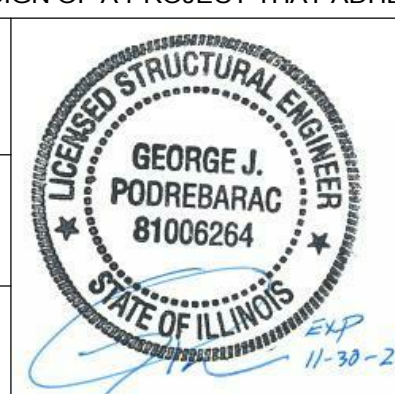
1/16" = 1'-0"



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State of Illinois
JB PRITZKER, GOVERNOR
 Illinois Capital Development Board

LOW ROOF FRAMING PLAN

STEVENS ON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO.
630-128-005

DATE
01/31/2020

SHEET NO.

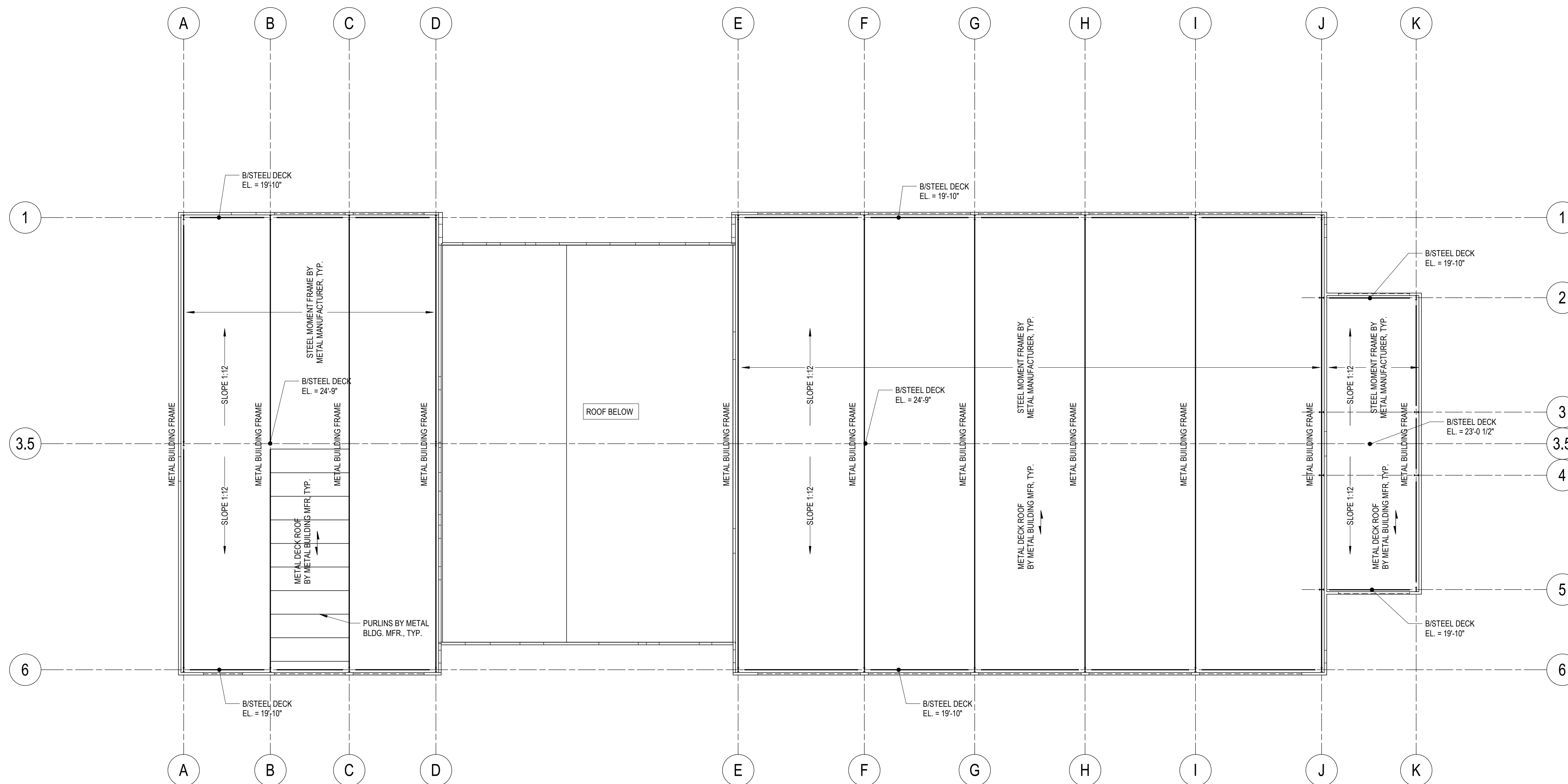
S2.1

OF () SHEETS

GENERAL SHEET NOTES

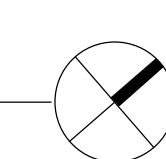
- BOTTOM OF STEEL DECK ELEVATION NOTED ON PLAN.
- REFER TO PLUMBING DRAWINGS FOR ROOF DRAIN LOCATIONS.
- PROVIDE MECHANICAL SUBFRAME FOR ALL DUCT PENETRATIONS THROUGH ROOF. COORDINATE SIZE AND LOCATION WITH MECHANICAL CONTRACTOR.
- BEAMS SHALL BE EQUALLY SPACED IN A BAY UNLESS NOTED OTHERWISE ON PLAN.
- SEE "GENERAL DETAILS" SHEET S-004 FOR ADDITIONAL DETAILS PERTAINING TO ROOF DECK ON BEAMS
- "LX" INDICATES LINTEL SIZE. SEE SCHEDULE ON SHEET S5.0.

SHEET KEYNOTES



HIGH ROOF FRAMING PLAN

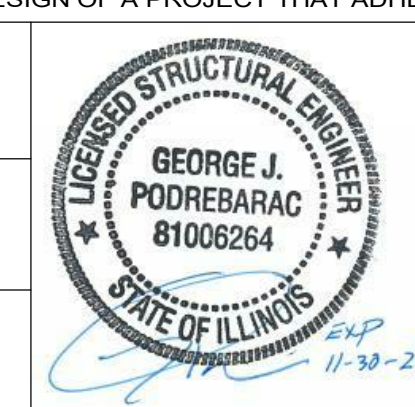
1/16" = 1'-0"



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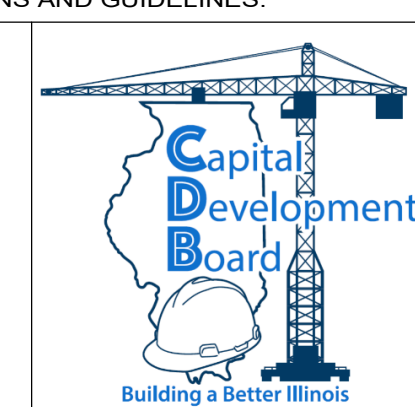
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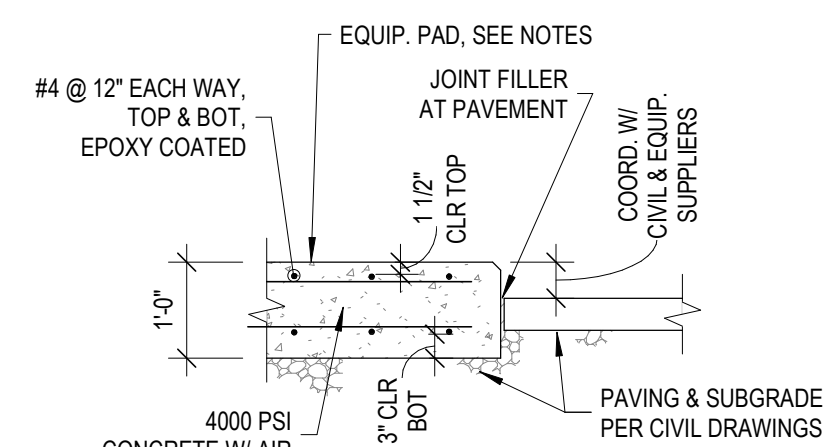
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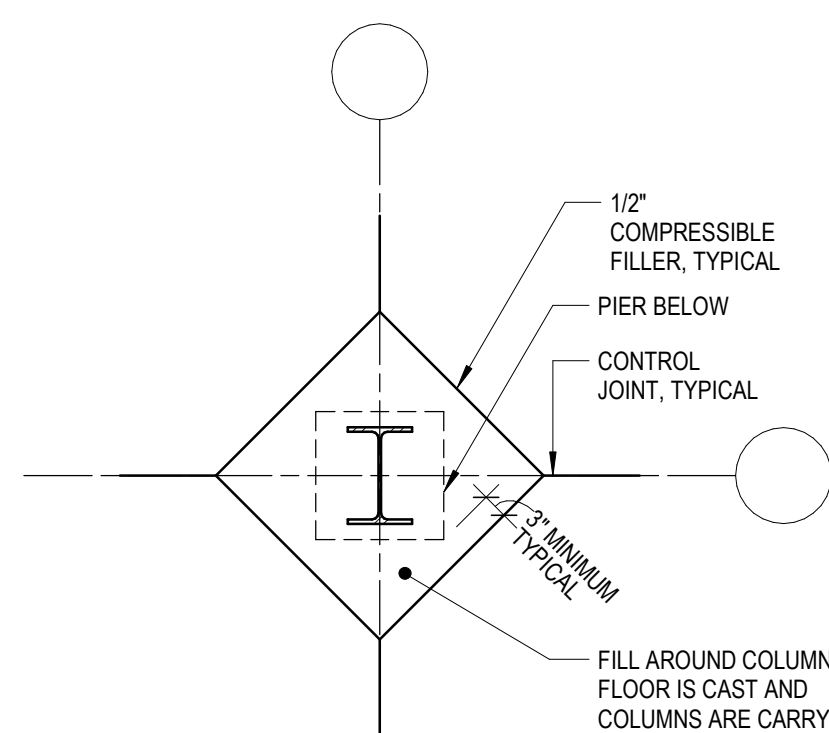
HIGH ROOF FRAMING PLAN
STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO.
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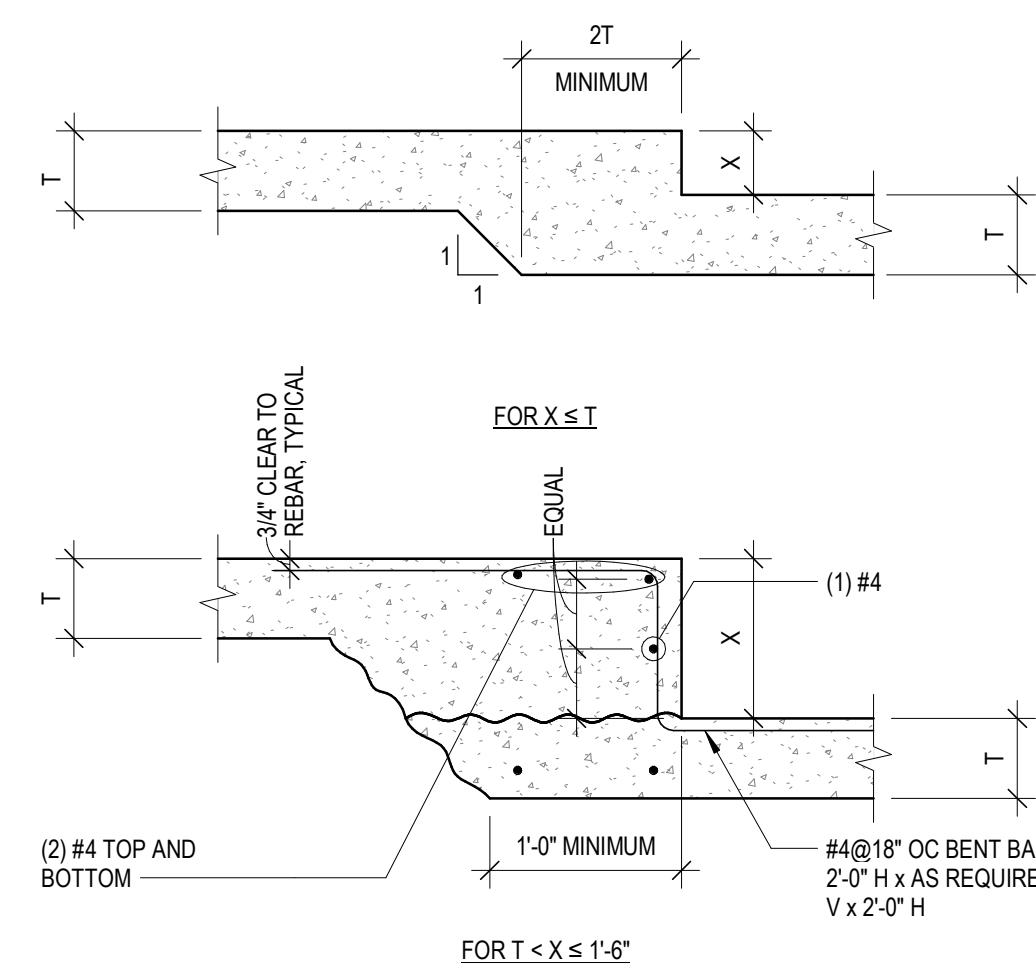


- NOTES:**
- EACH PIECE OF EQUIPMENT SHALL HAVE SEPERATE MAT. COORDINATE SIZE AND ANCHORAGE WITH EQUIP. SUPPLIER. THICKEN AS NECESSARY AT ANCHORAGE
 - MATS MAY EXPERIENCE FROST HEAVE. ALL CONNECTIONS TO SERVICES SHALL BE FLEXIBLE.
 - SLOPE MATS FOR DRAINAGE. COORDINATE WITH CIVIL.

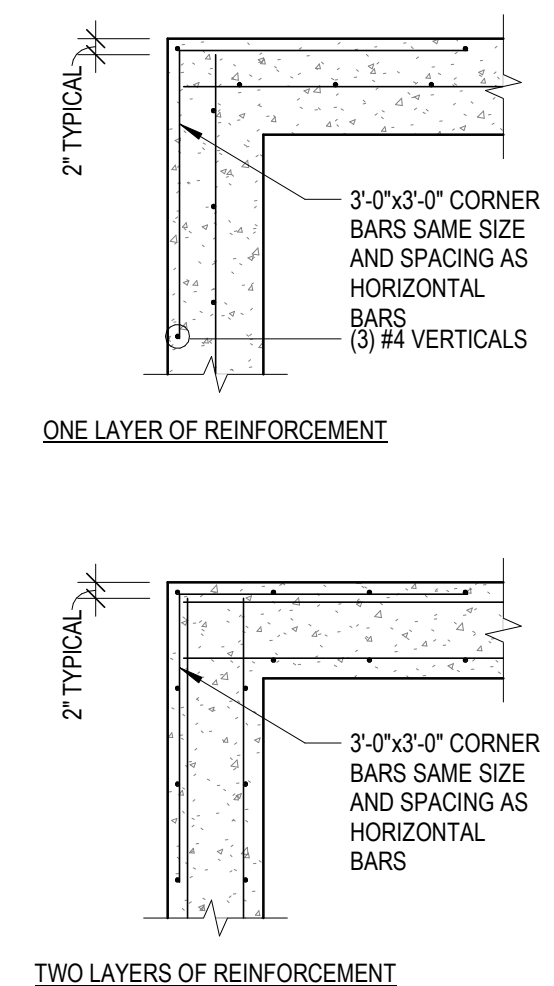
C3 SITE EQUIPMENT MAT
1/2" = 1'-0"



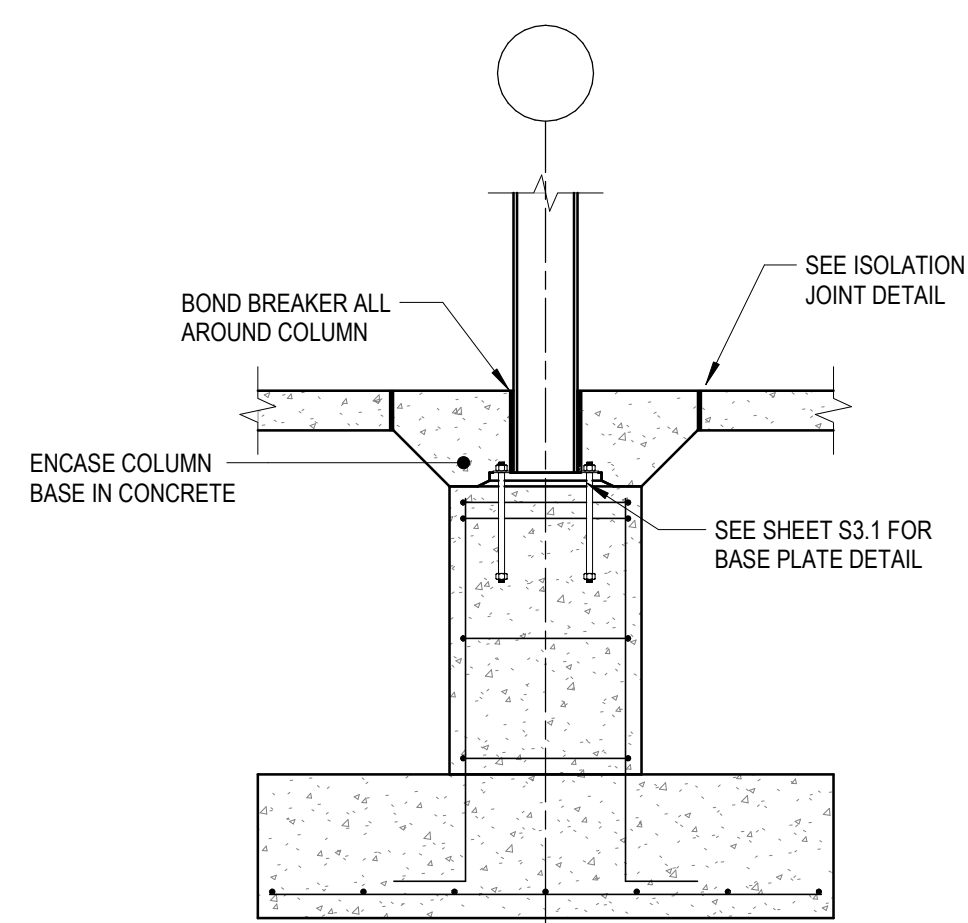
C4 INTERIOR COLUMN ISOLATION JOINT
1/2" = 1'-0"



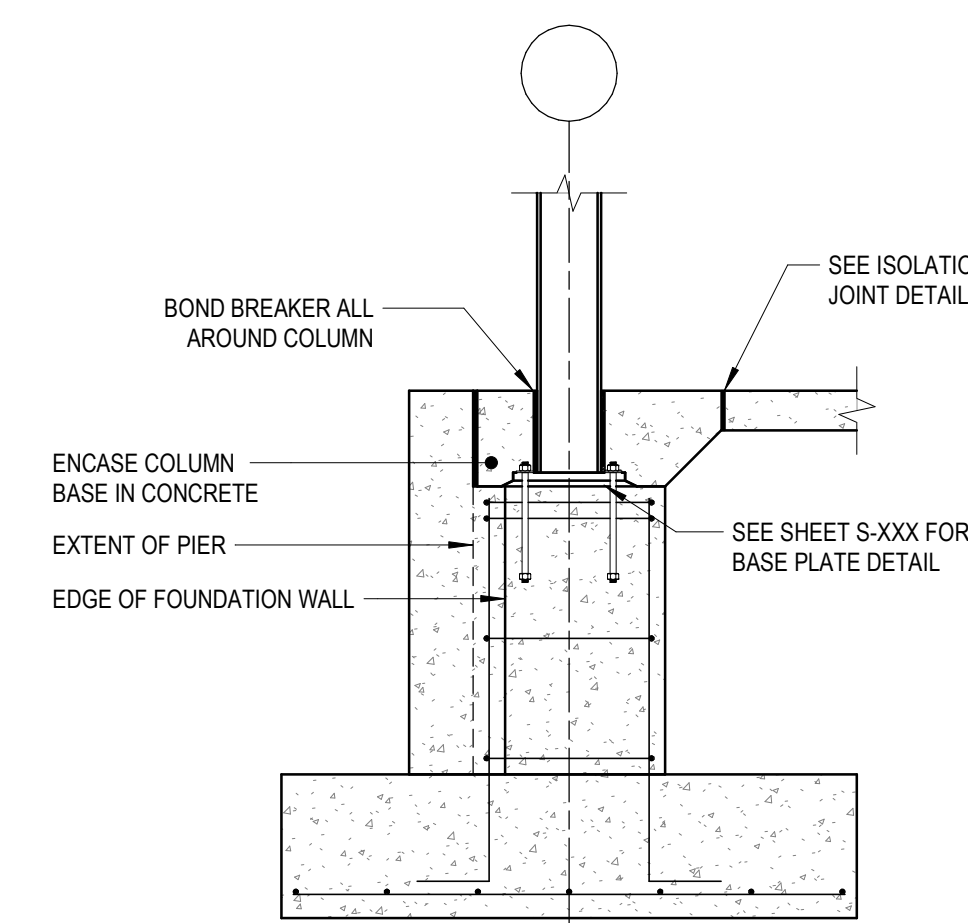
C5 SLAB ON GRADE DEPRESSION
1" = 1'-0"



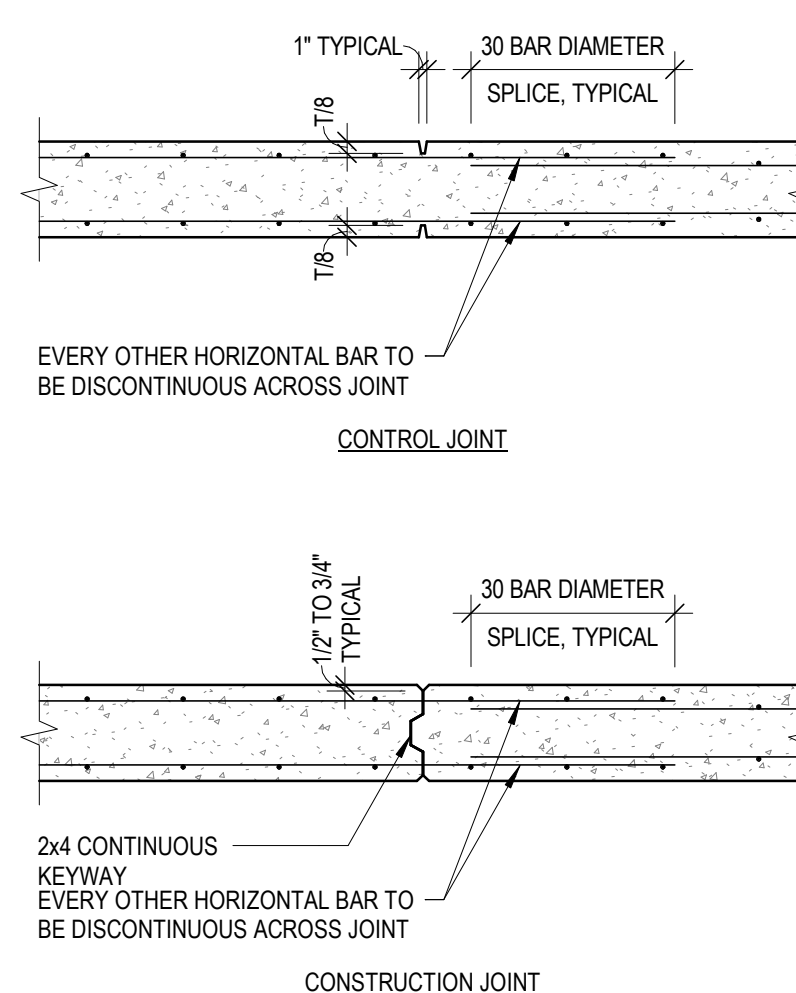
C6 WALL CORNER
1/2" = 1'-0"



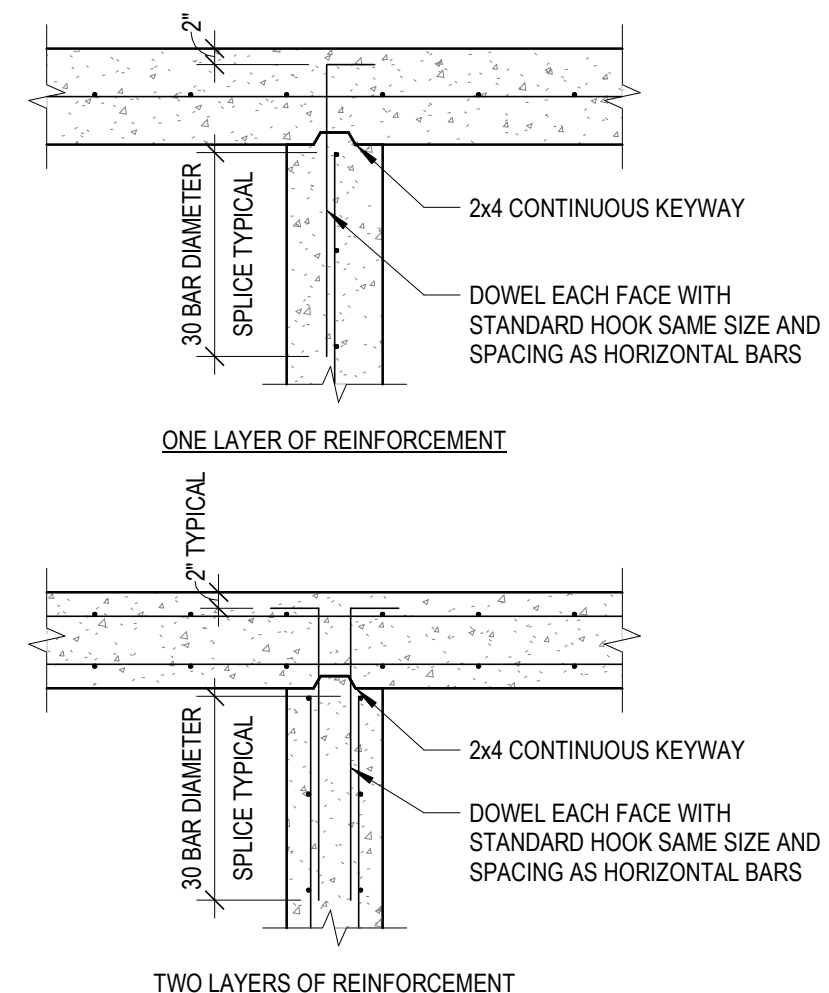
B2 INTERIOR FOOTING W/ PIER DETAIL
1/2" = 1'-0"



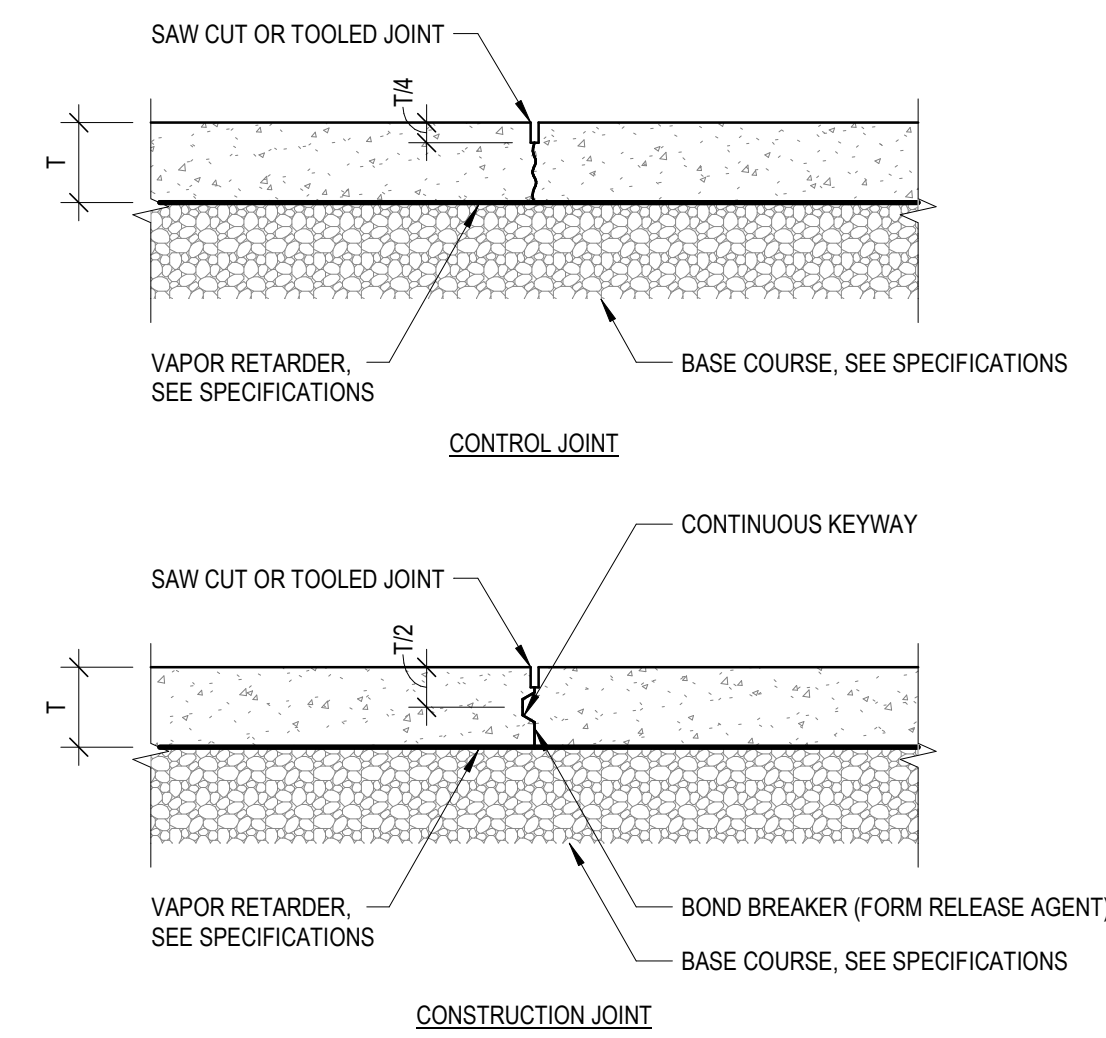
B3 PERIMETER FOOTING DETAIL
1/2" = 1'-0"



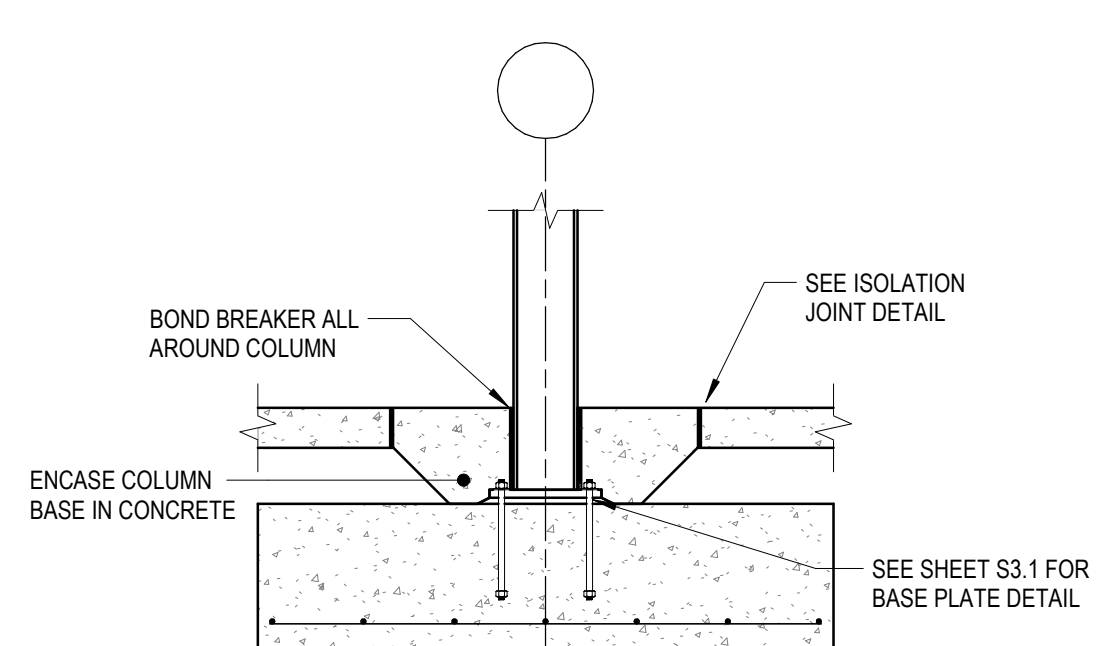
B4 WALL CONTROL AND CONSTRUCTION JOINT
1/2" = 1'-0"



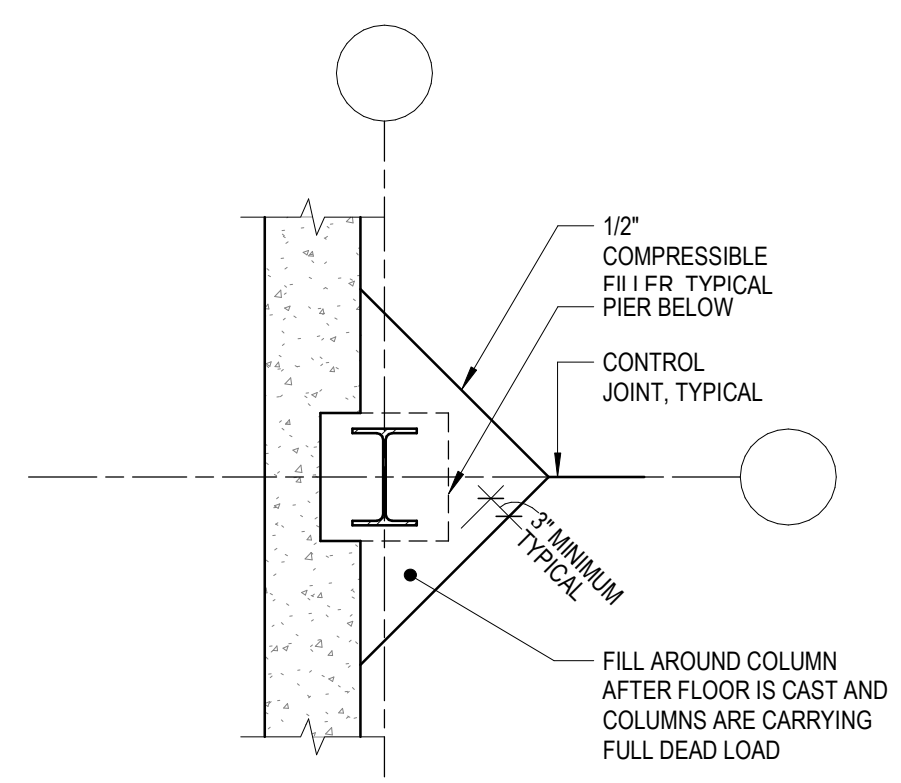
B5 WALL INTERSECTION
1/2" = 1'-0"



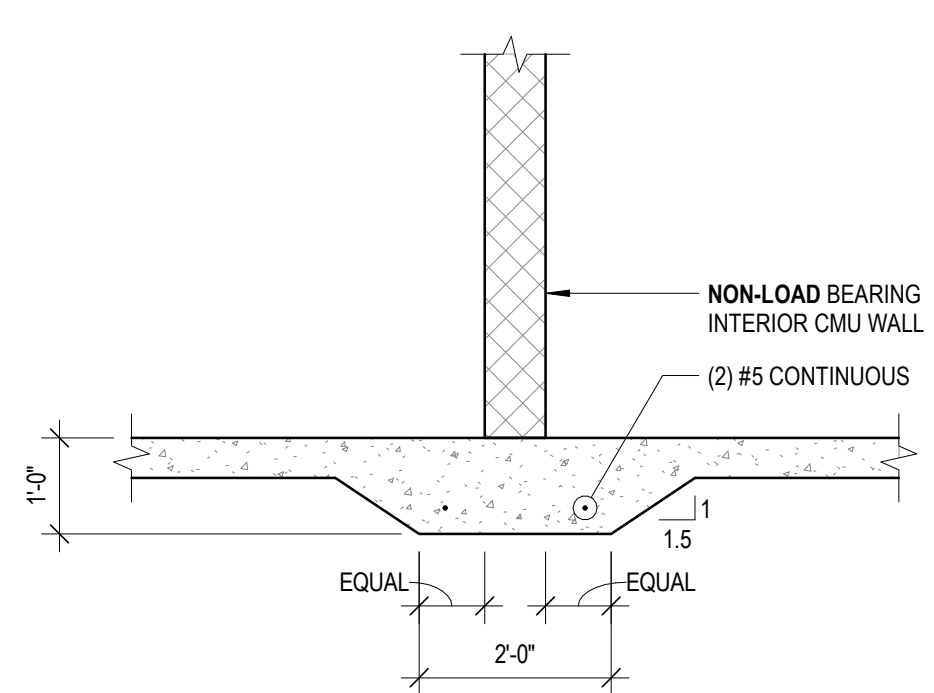
B6 SLAB ON GRADE CONTROL AND CONSTRUCTION JOINT
1" = 1'-0"



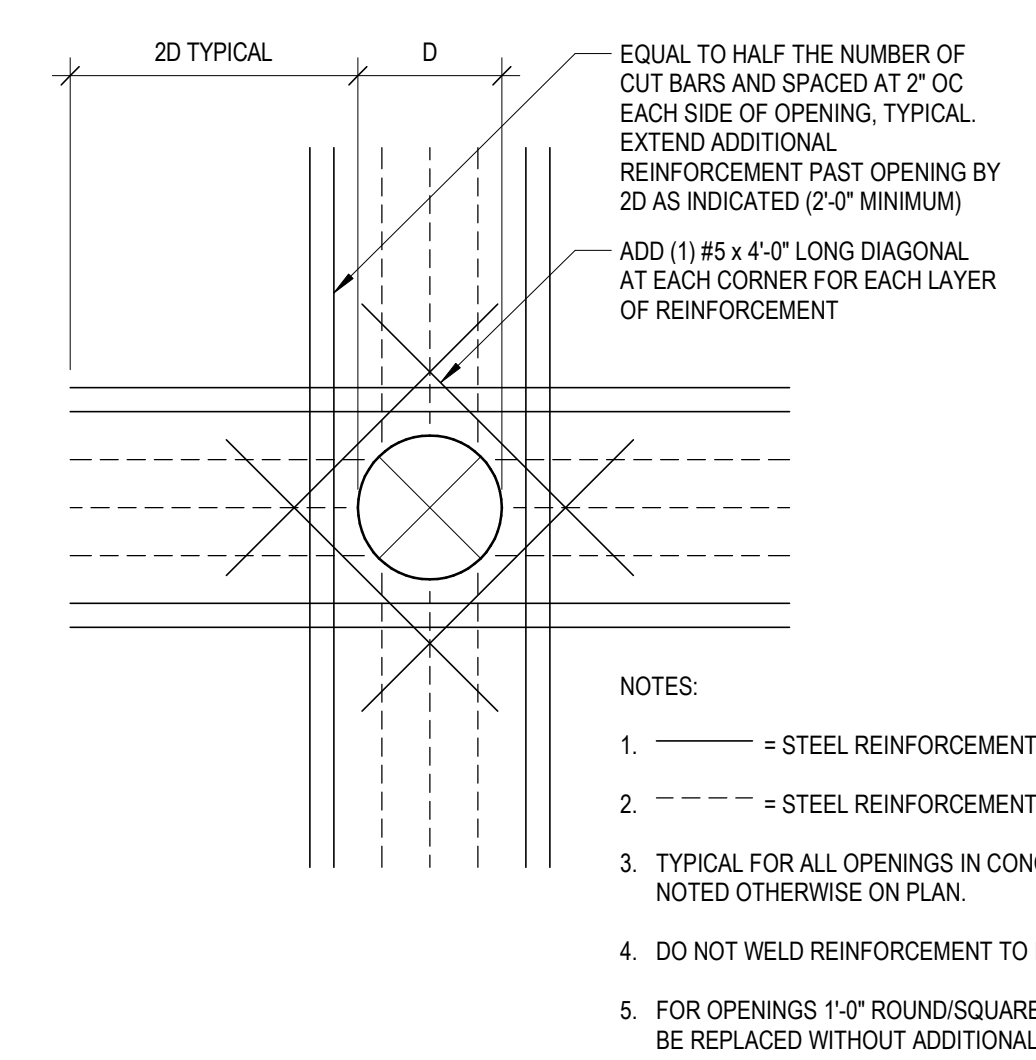
A2 INTERIOR FOOTING DETAIL
1/2" = 1'-0"



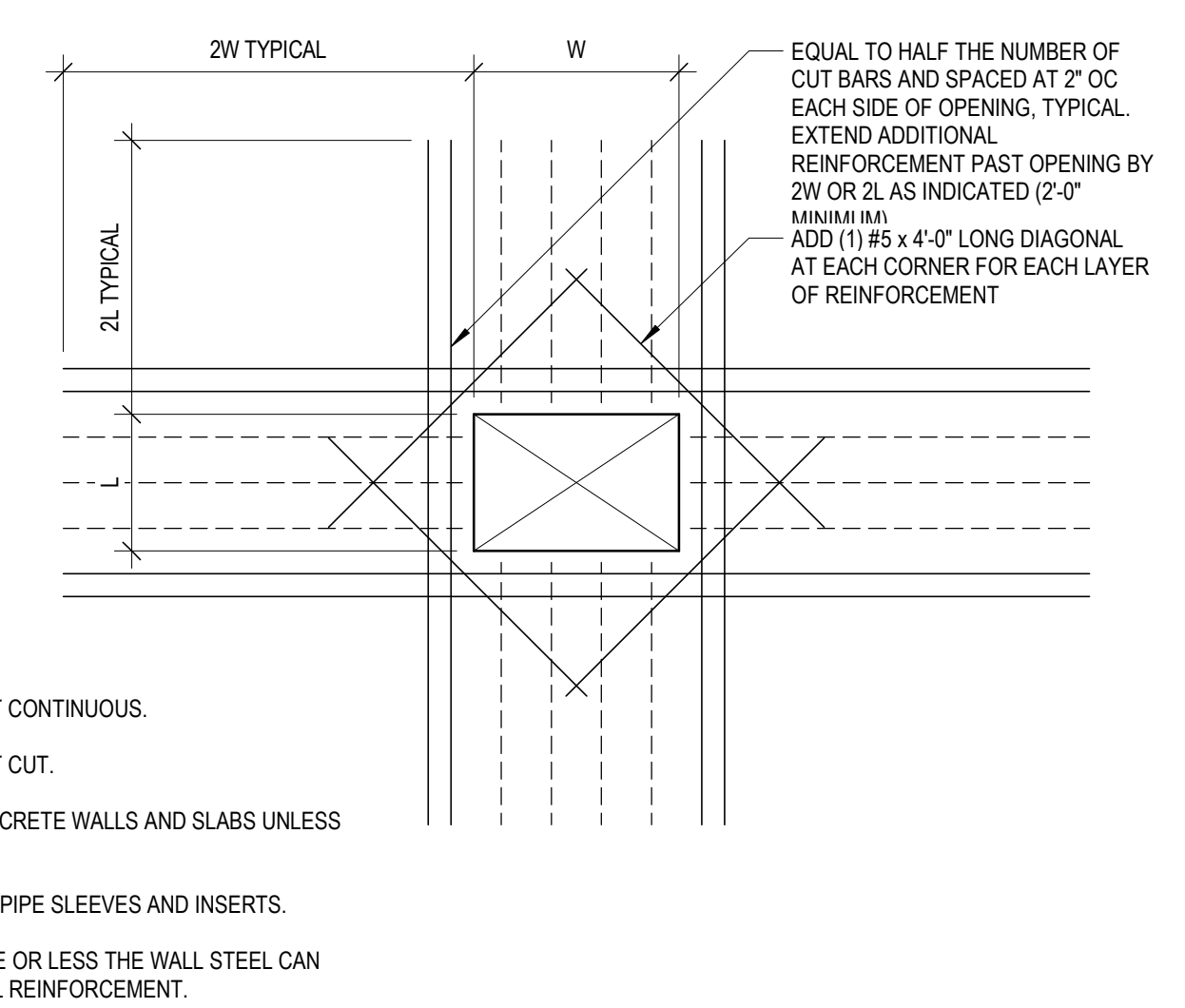
A3 PERIMETER COLUMN ISOLATION JOINT
1/2" = 1'-0"



A4 CMU WALL ON SLAB ON GRADE
1/2" = 1'-0"



A5 FOUNDATION WALL OPENING REINFORCEMENT
1/2" = 1'-0"

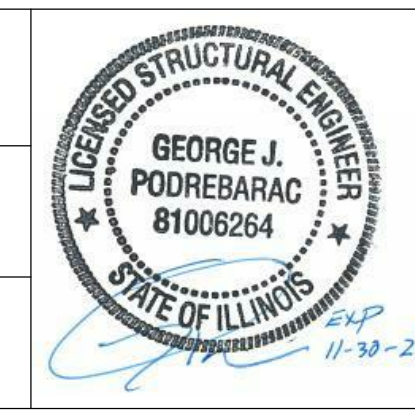


- NOTES:**
- = STEEL REINFORCEMENT CONTINUOUS.
 - - - = STEEL REINFORCEMENT CUT.
 - TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS UNLESS NOTED OTHERWISE ON PLAN.
 - DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.
 - FOR OPENINGS 1'-0" ROUND/SQUARE OR LESS THE WALL STEEL CAN BE REPLACED WITHOUT ADDITIONAL REINFORCEMENT.

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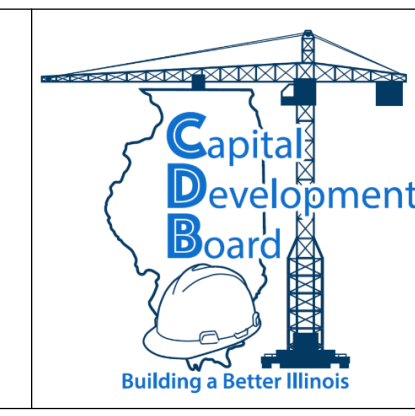
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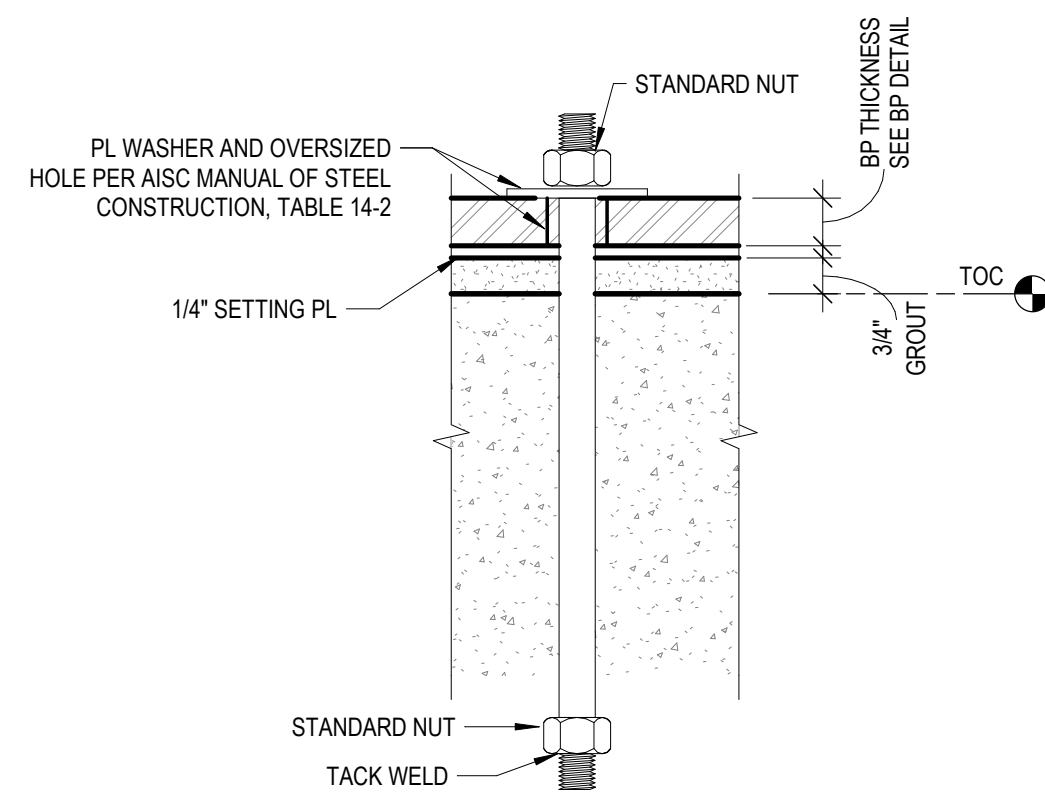
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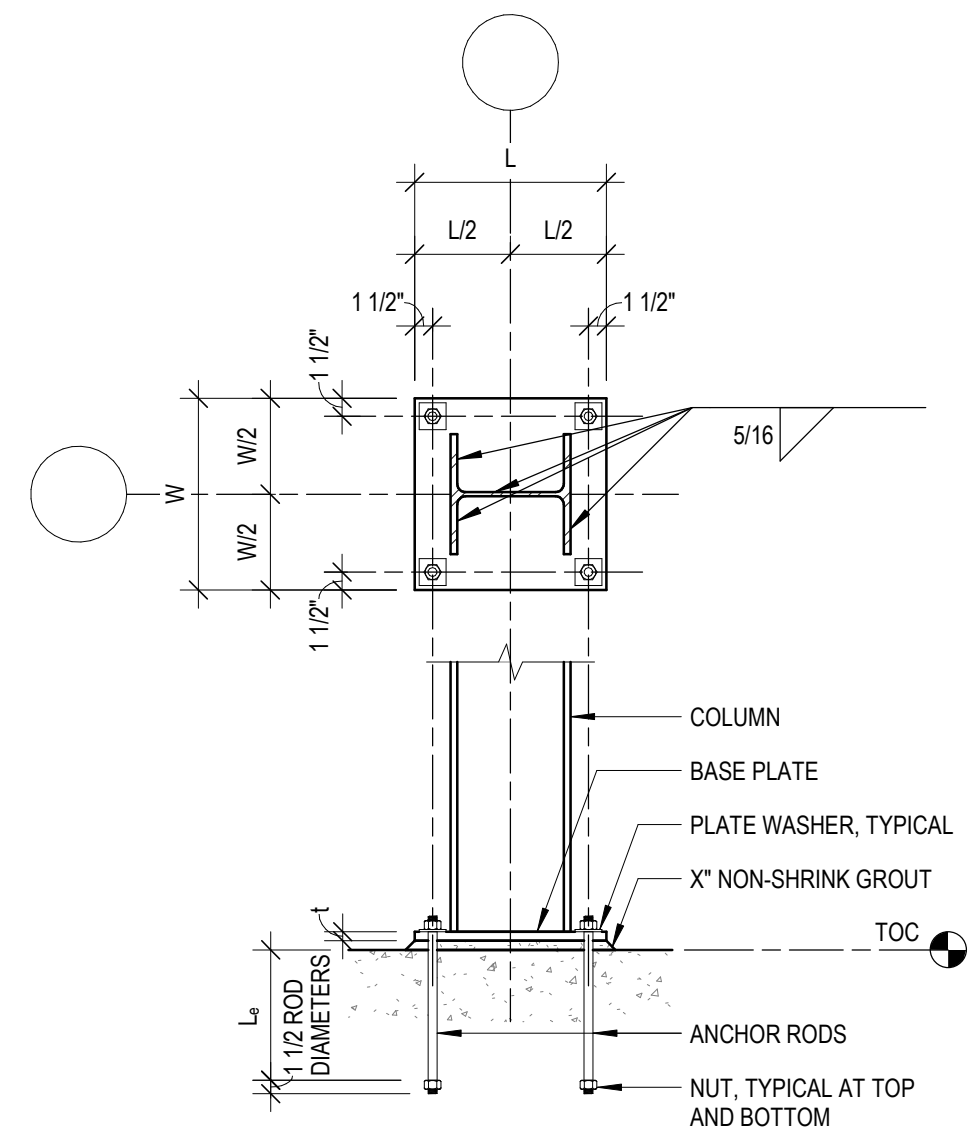
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GENERAL FOUNDATION DETAILS
STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

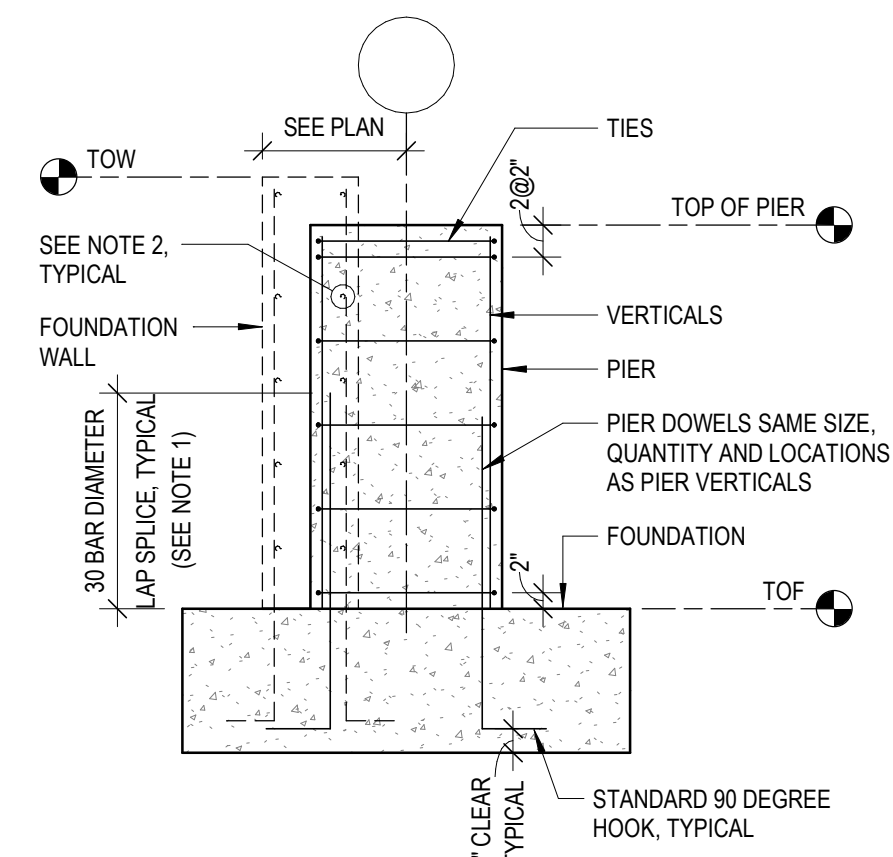
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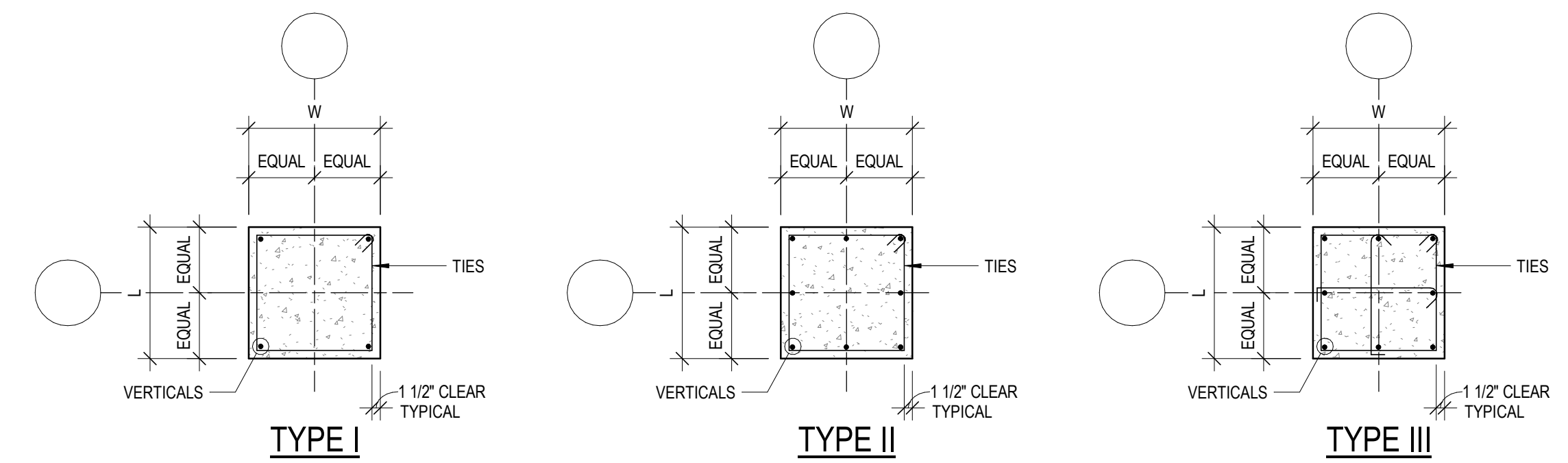
B2 ANCHOR BOLT DETAIL
3/4" = 1'-0"



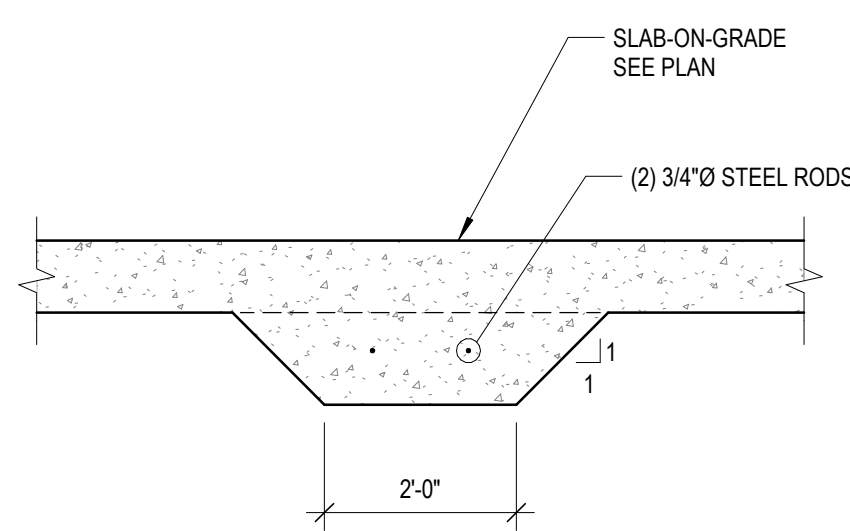
B3 BASE PLATE
3/4" = 1'-0"



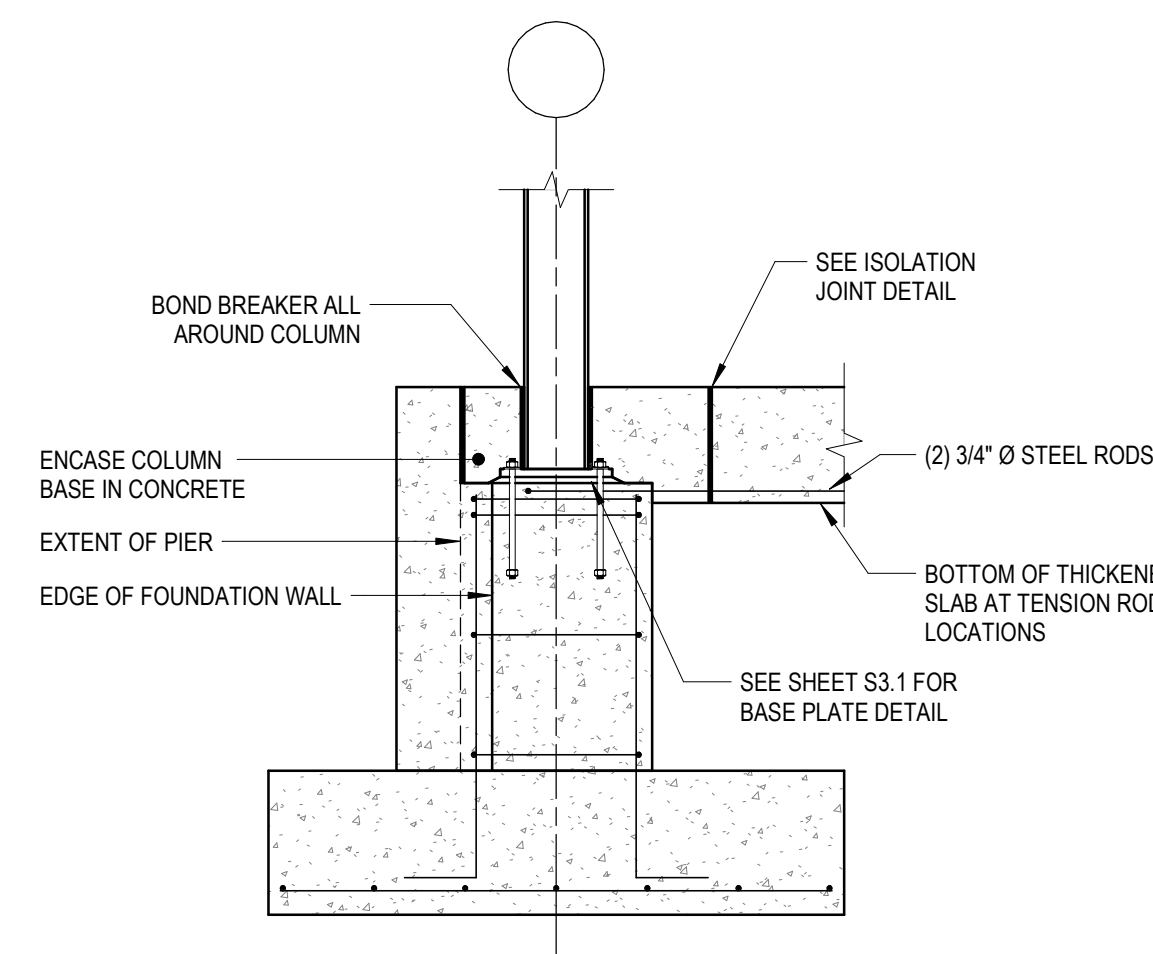
B4 TYPICAL PIER SECTION
1/2" = 1'-0"



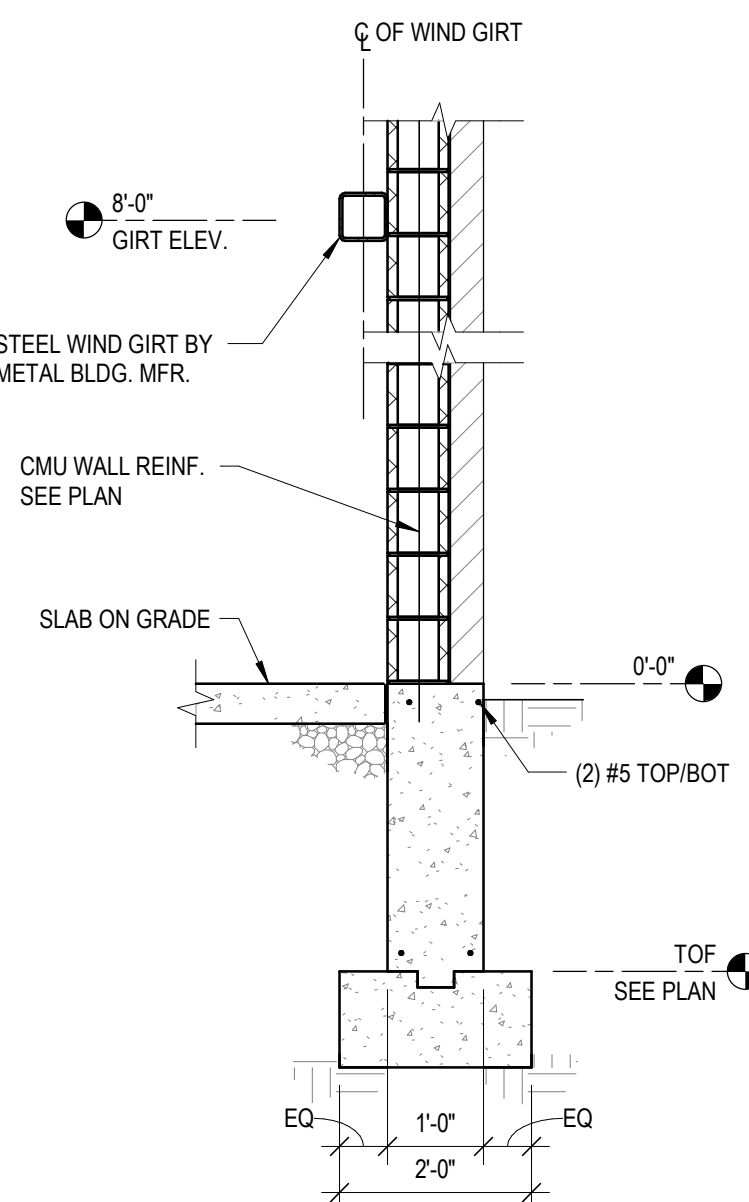
B5 TYPICAL PIER DIAGRAM
1/2" = 1'-0"



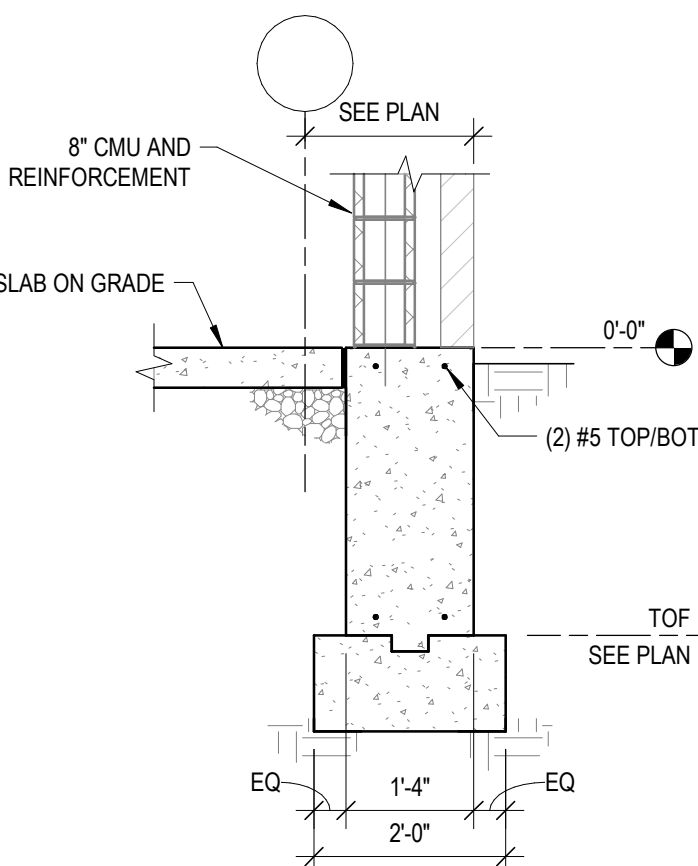
A2 ENCASED TIE BARS
1/2" = 1'-0"



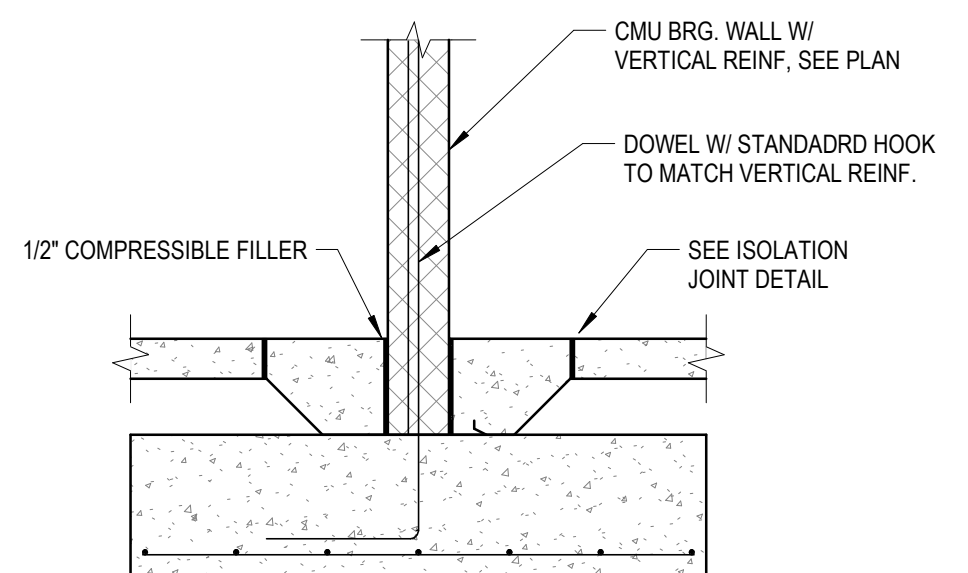
A3 PERIMETER FOOTING DETAIL AT TIES
1/2" = 1'-0"



A4 CMU WALL AT WIND GIRT
1/2" = 1'-0"



A5 FOUNDATION WALL @ BRICK/CMU WALL
1/2" = 1'-0"

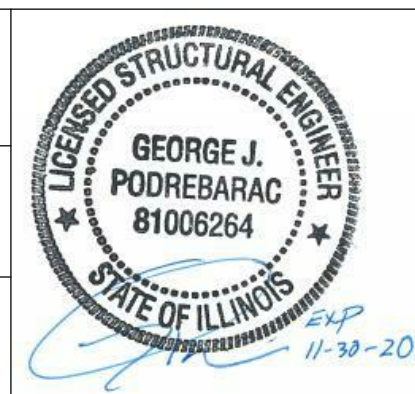


A6 INTERIOR FOOTING DETAIL
1/2" = 1'-0"

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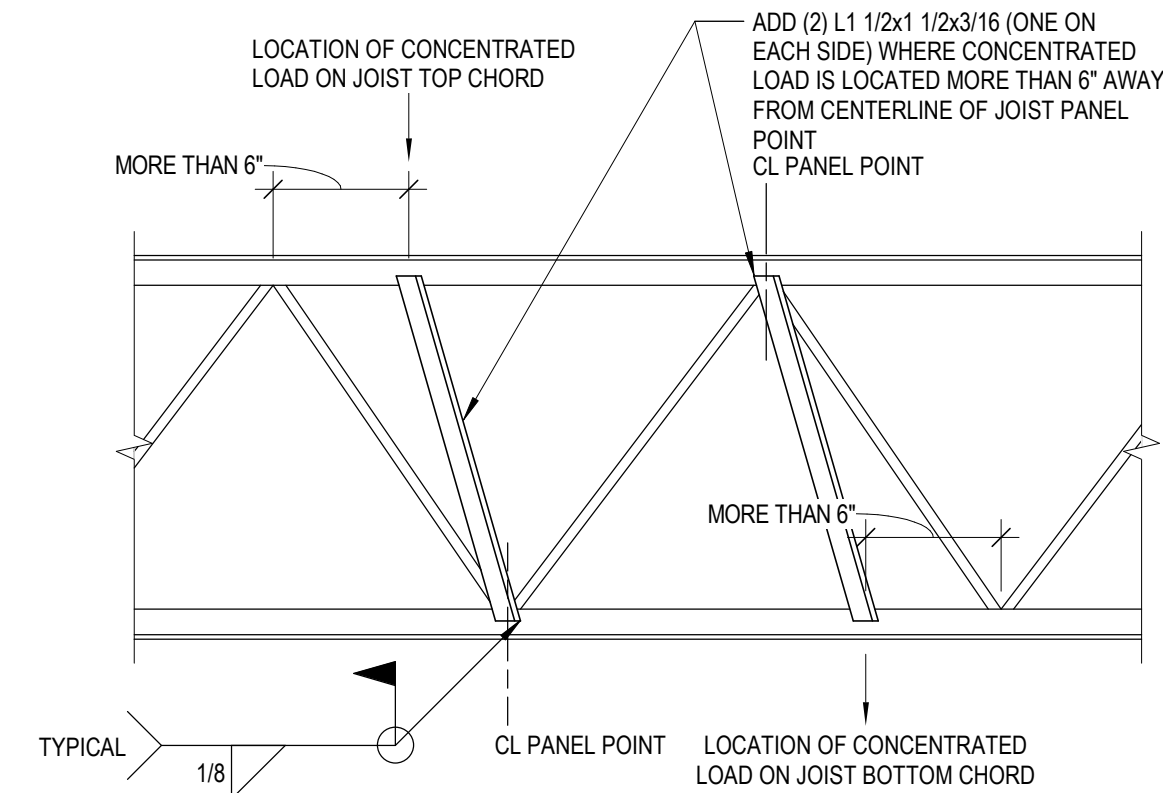


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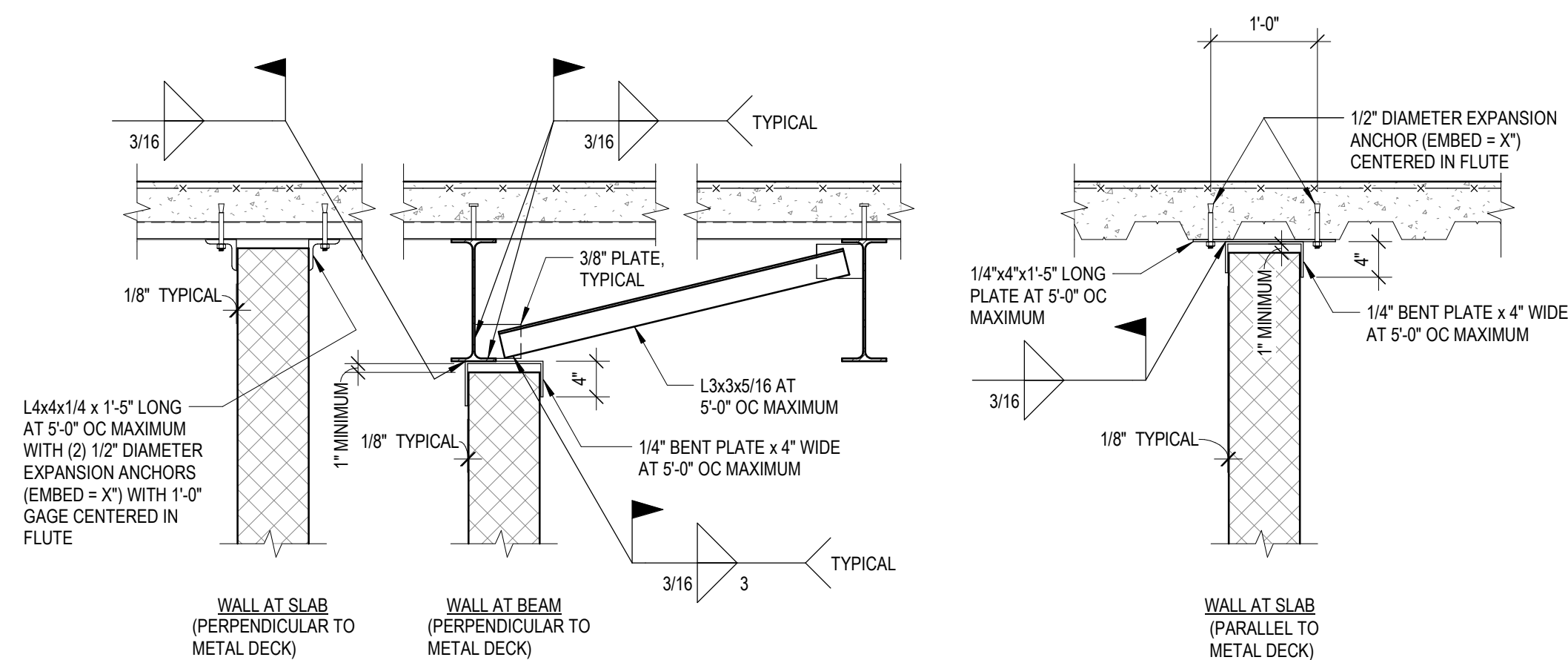
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MISCELLANEOUS STEEL DETAILS



D5 VERTICAL CONCENTRATED LOAD ON JOIST

3/4" = 1'-0"

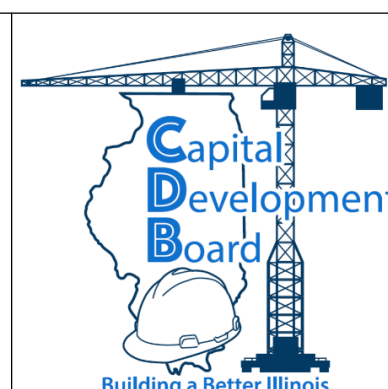


C2 SUPPORT AT TOP OF INTERIOR CMU WALLS (NON-LOAD BEARING)

3/4" = 1'-0"

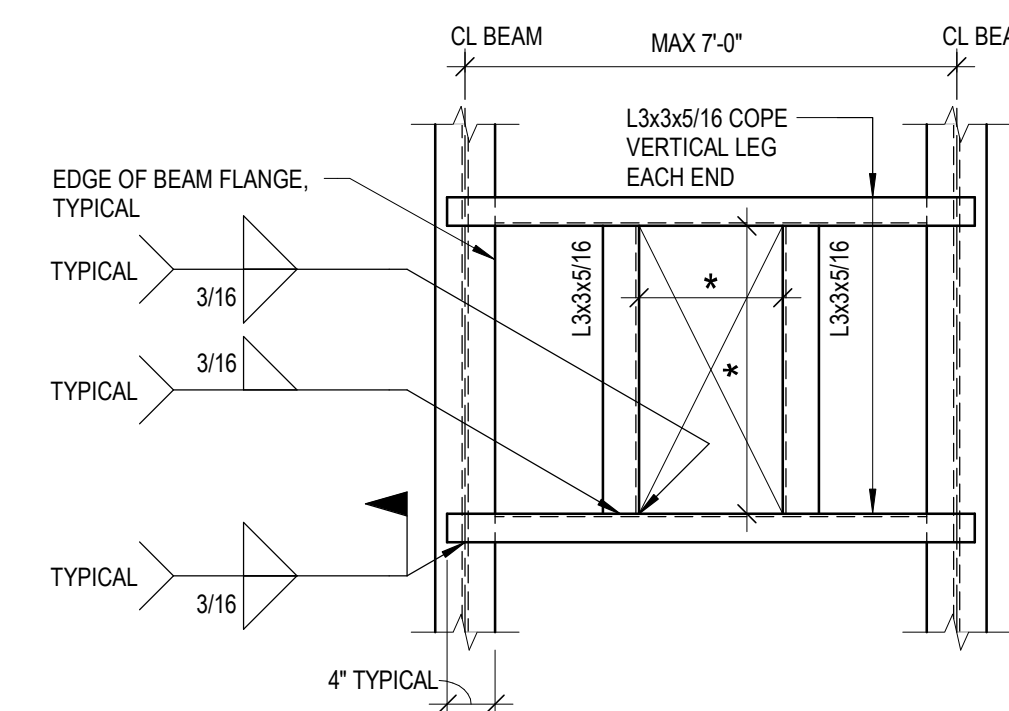
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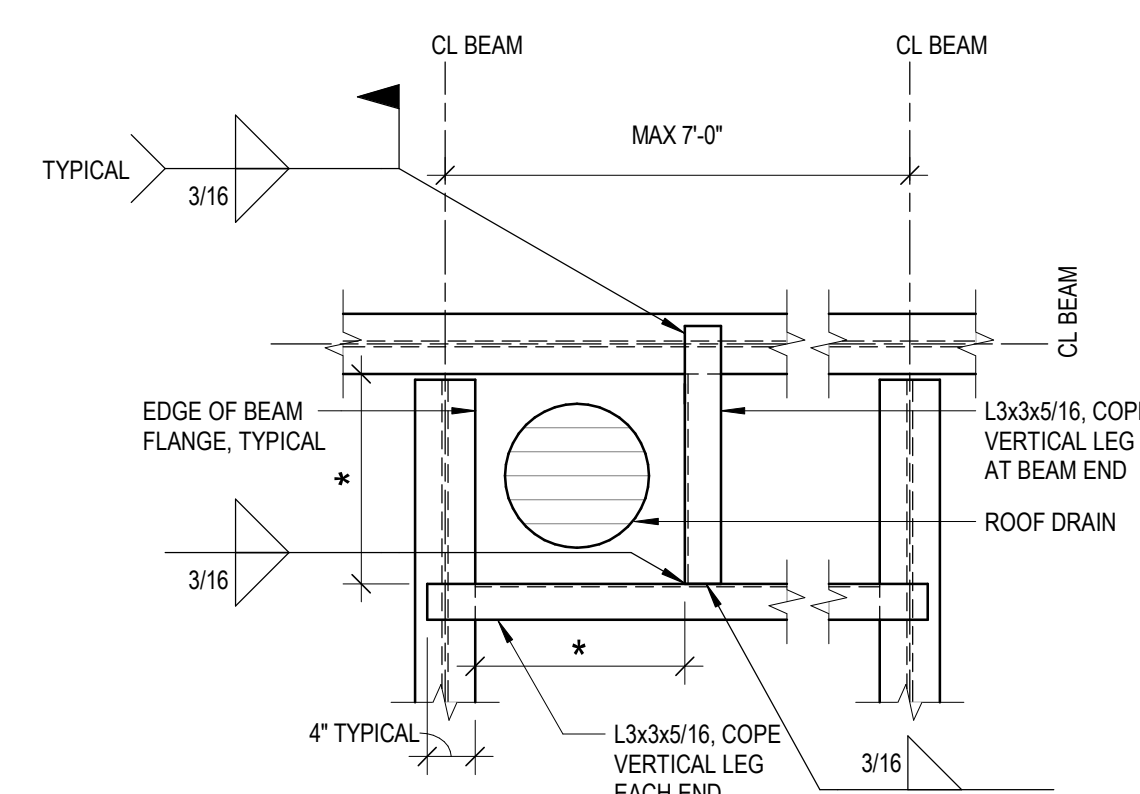
GENERAL ROOF DECK DETAILS



- NOTES:
- * = DIMENSION BY MEP CONTRACTOR.
 - DECK SUPPLIER TO PROVIDE 1 1/2" HIGH, 20 GAGE CHANNEL CLOSURE ALONG NON-BEARING SIDES OF DECK.
 - FASTEN DECK TO ANGLES WITH PUDDLE WELD AT 6" OC ALONG EACH SIDE OF OPENING.
 - PROVIDE MECHANICAL SUBFRAME SHOWN FOR ALL DUCT PENETRATIONS THROUGH ROOF. COORDINATE SIZE AND LOCATION WITH MECHANICAL CONTRACTOR.

B5 MECHANICAL SUBFRAME

3/4" = 1'-0"



- NOTES:
- * = DIMENSION BY MECHANICAL CONTRACTOR.
 - FASTEN DECK TO ANGLES WITH PUDDLE WELD AT 6" OC ALONG EACH SIDE OF OPENING.
 - REFER TO PLUMBING DRAWINGS FOR ROOF DRAIN LOCATIONS.

A5 ROOF DRAIN SUBFRAME

3/4" = 1'-0"

GENERAL COMPOSITE SLAB DETAILS

GENERAL STEEL FRAMING DETAILS

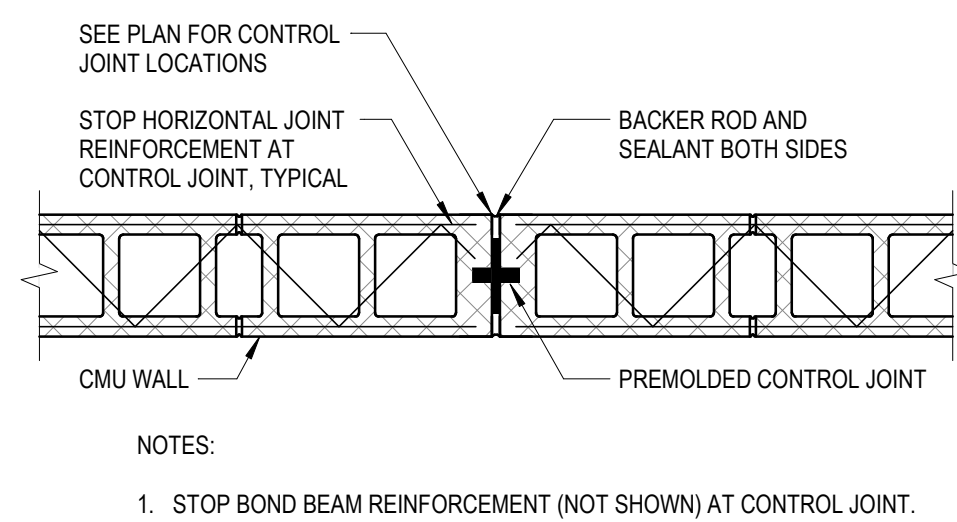
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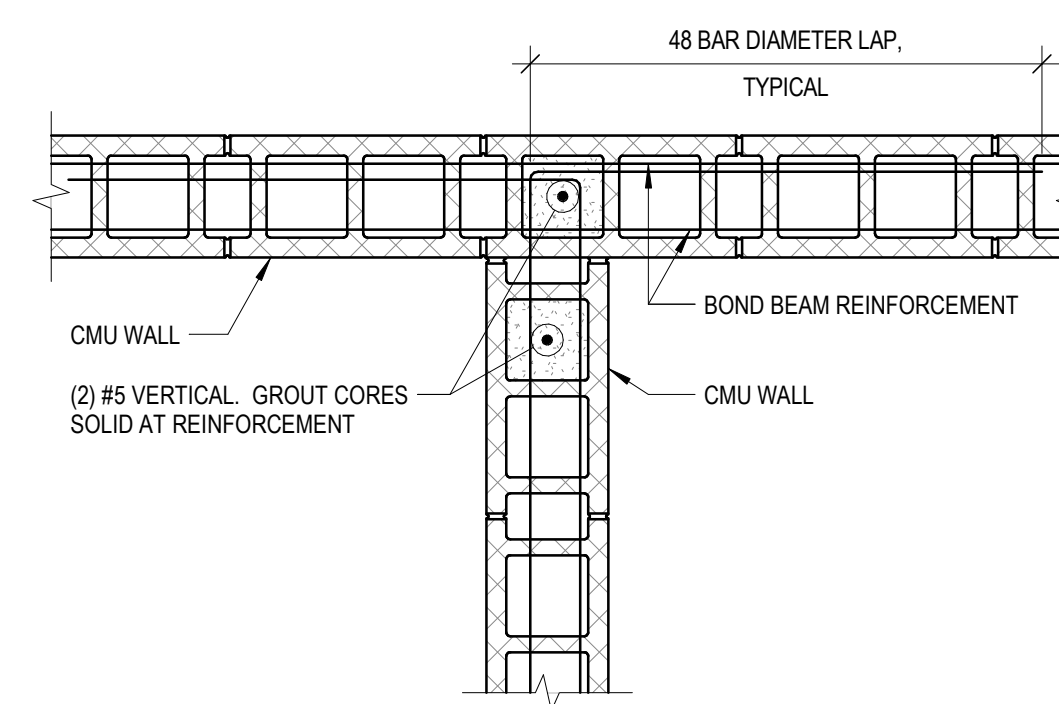
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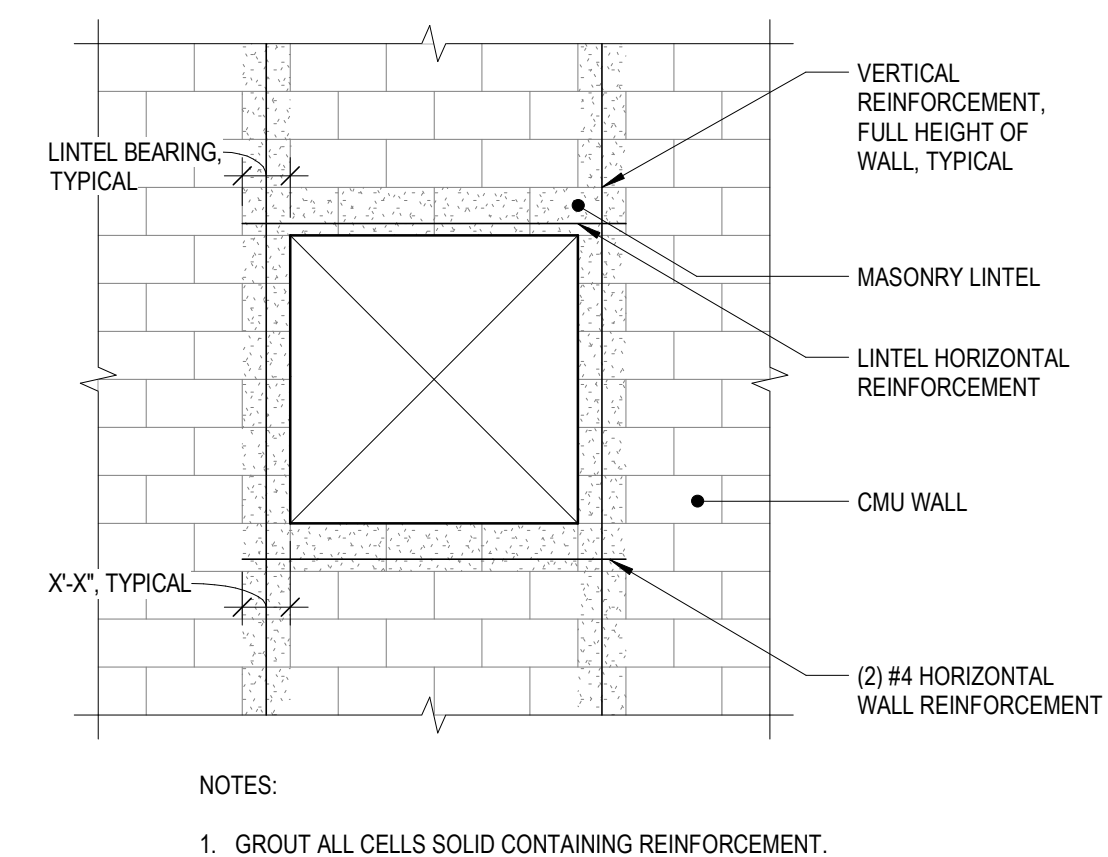
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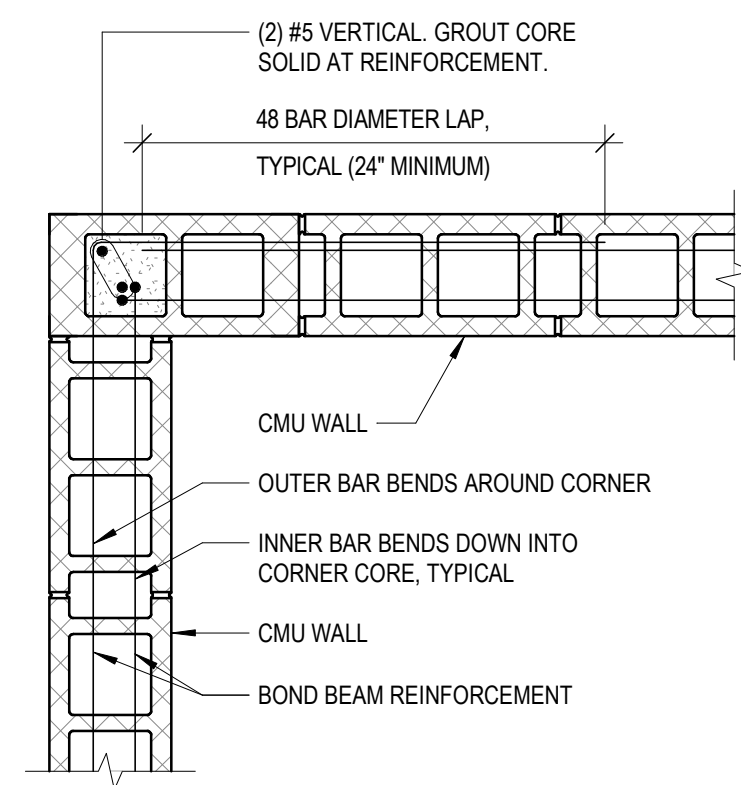
C4 CMU WALL VERTICAL CONTROL JOINT
1" = 1'-0"



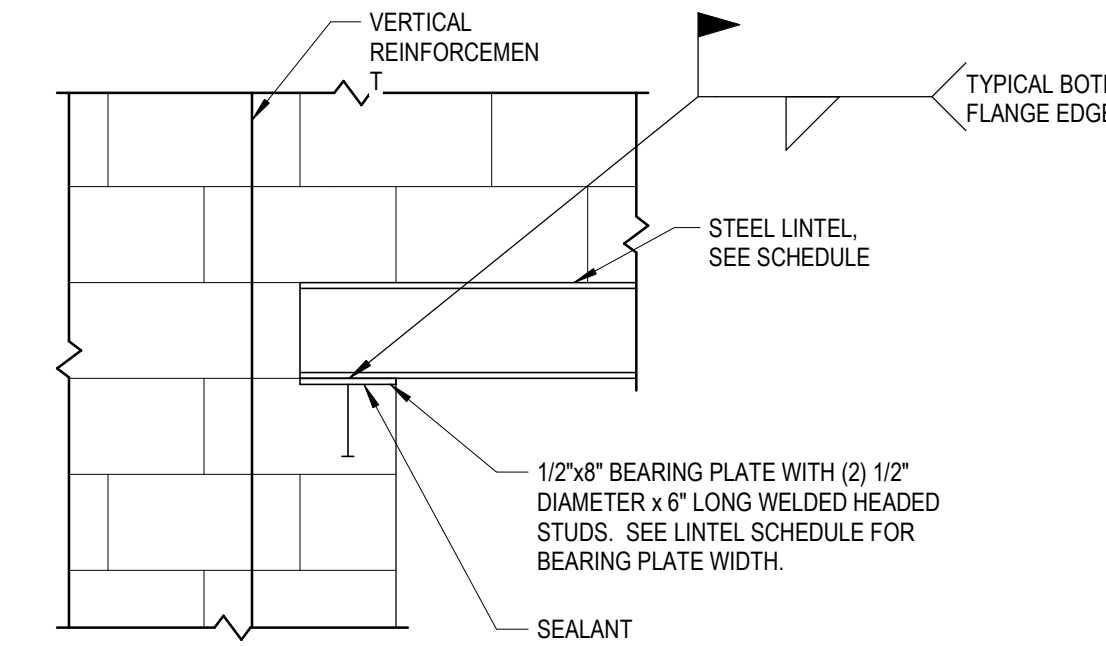
C5 BOND BEAM INTERSECTION
1" = 1'-0"



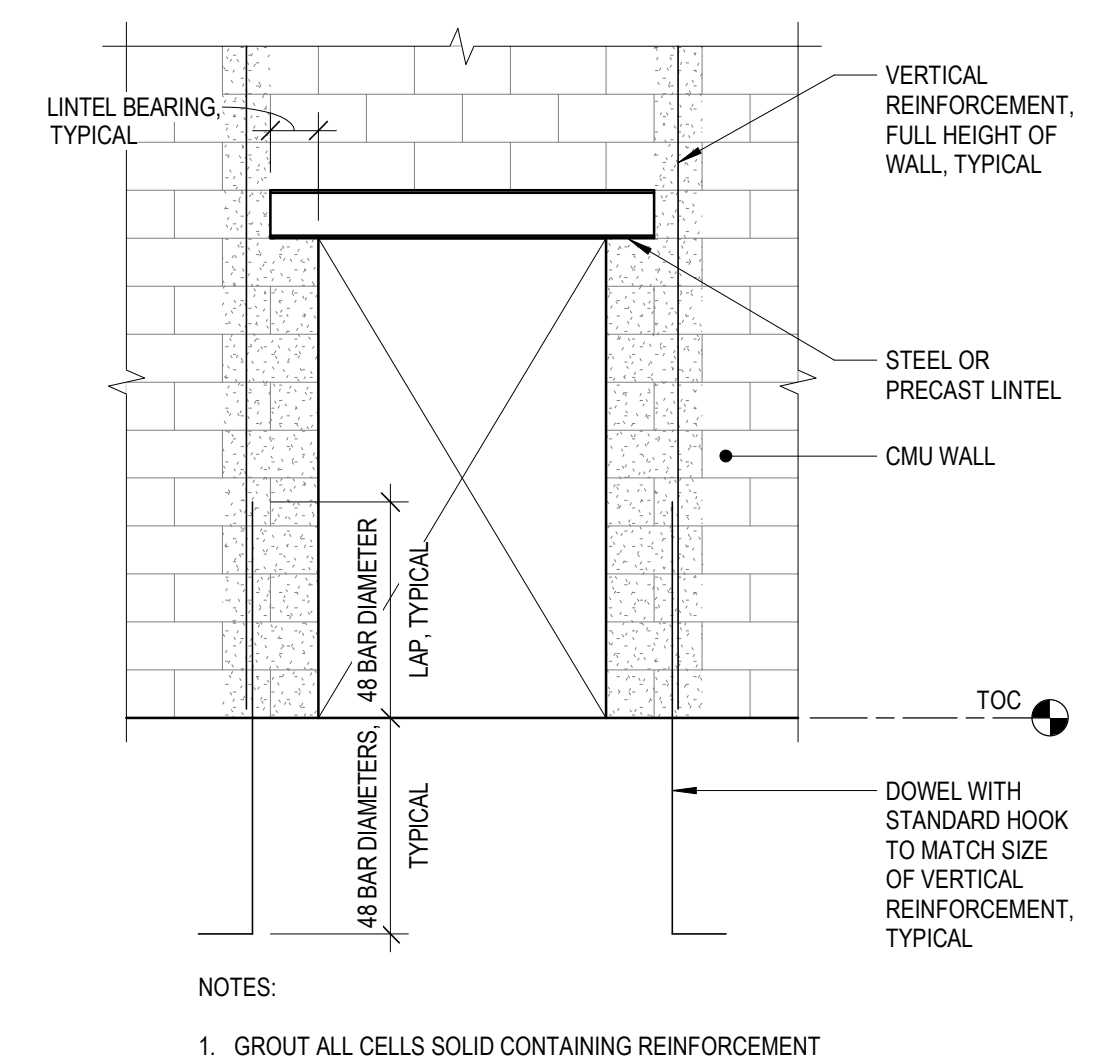
C6 CMU WALL PUNCHED OPENING
3/8" = 1'-0"



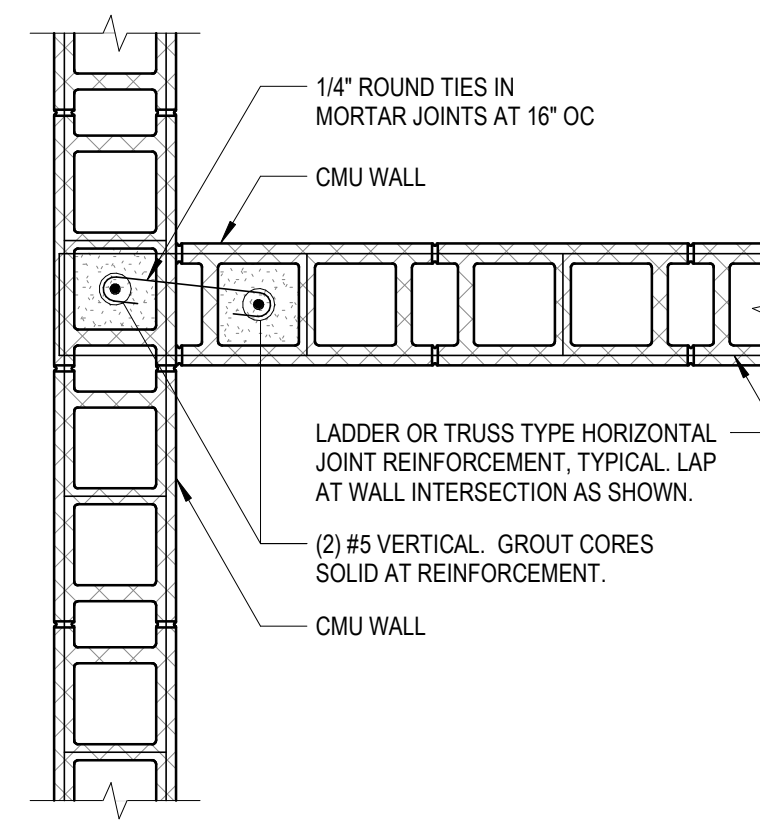
B4 BOND BEAM CORNER
1" = 1'-0"



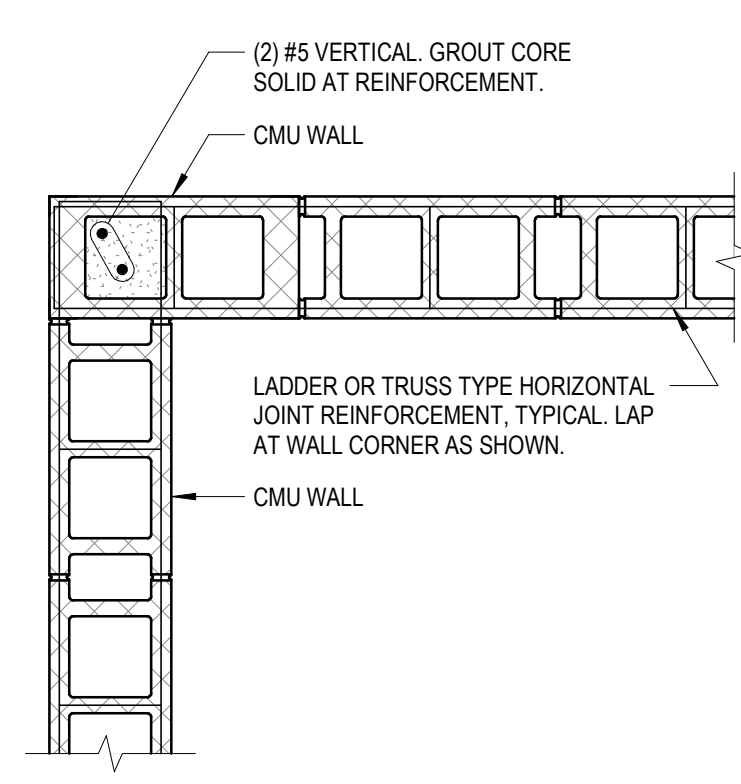
B5 SECTION
3/4" = 1'-0"



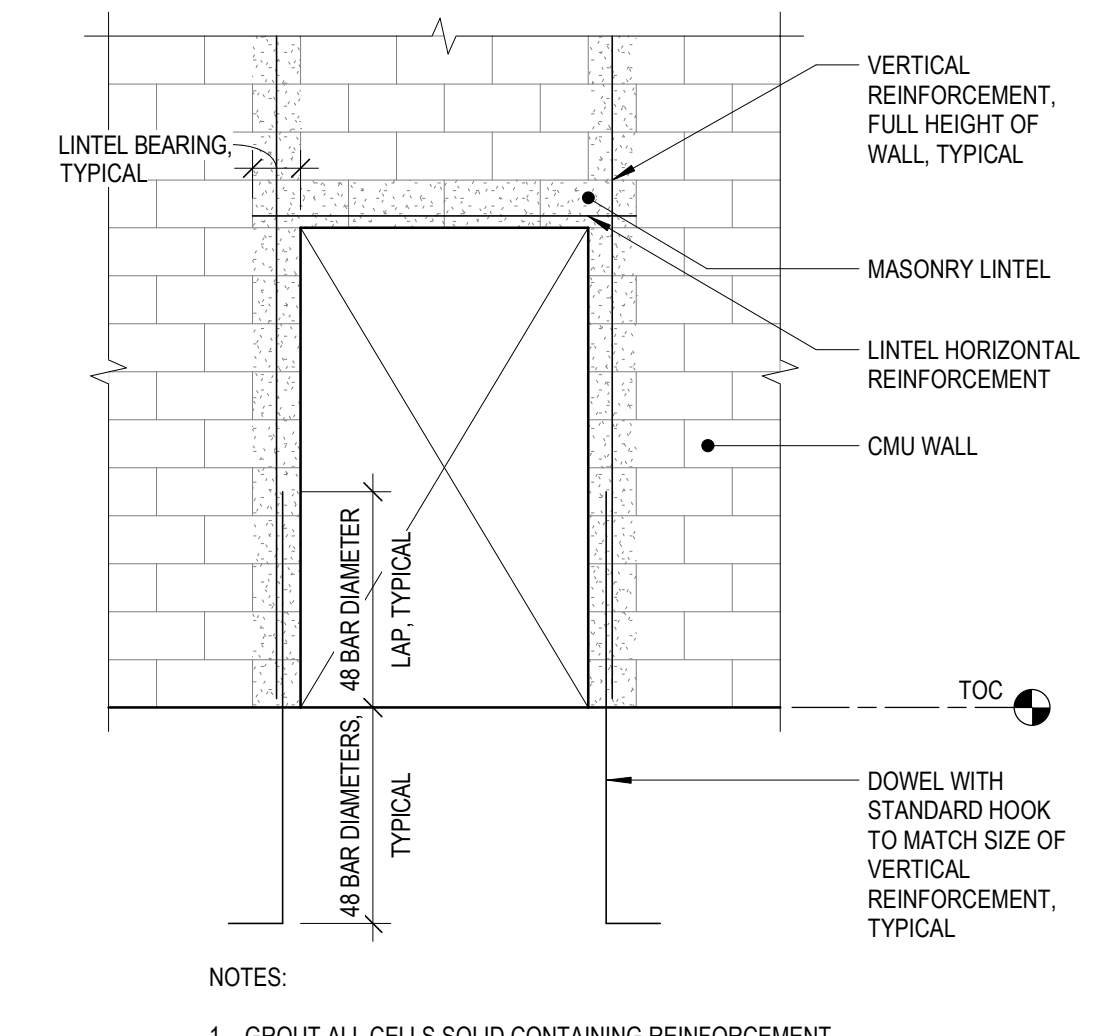
B6 CMU WALL DOOR OPENING
3/8" = 1'-0"



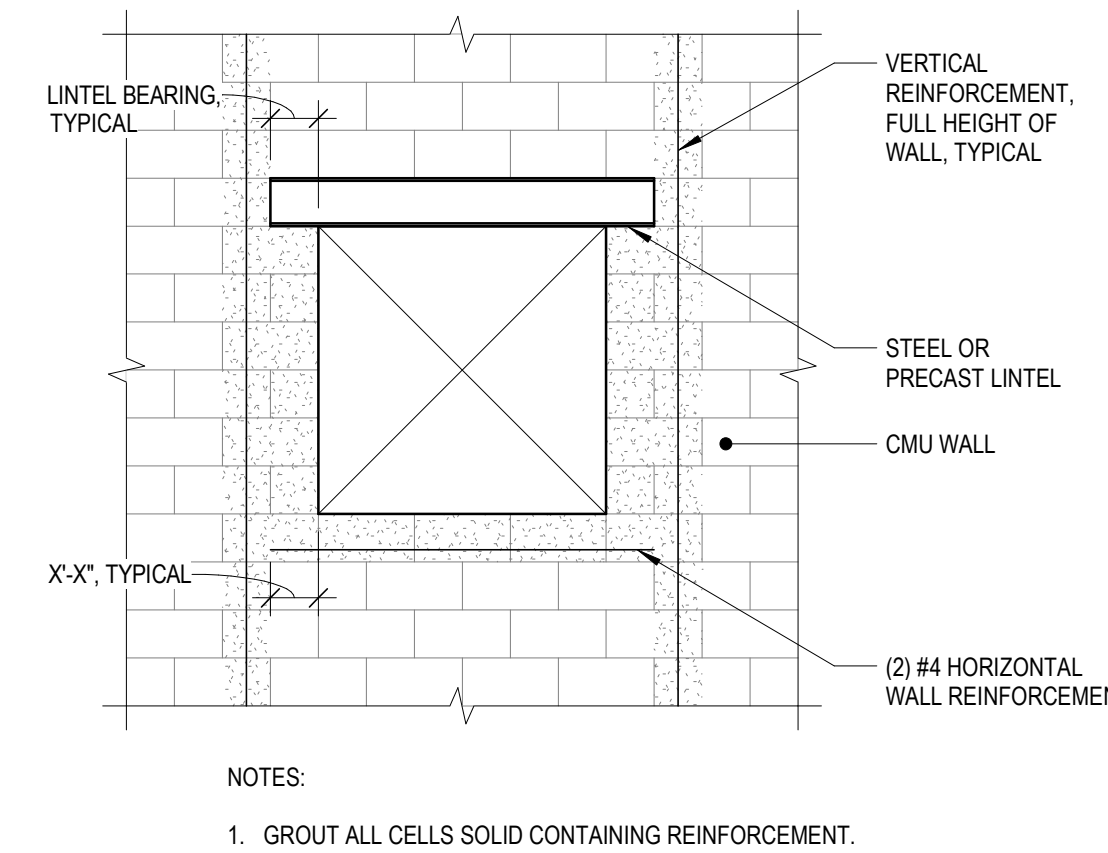
A3 CMU WALL INTERSECTION
1" = 1'-0"



A4 CMU WALL CORNER
1" = 1'-0"



A5 CMU WALL DOOR OPENING
3/8" = 1'-0"

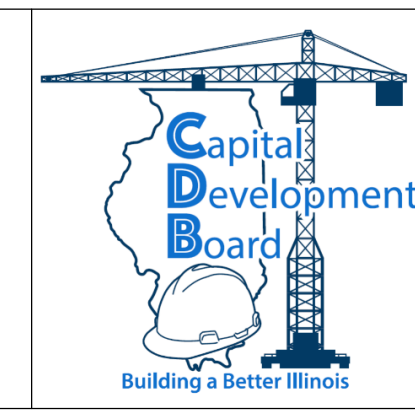
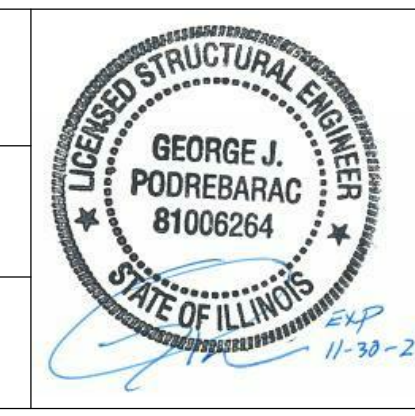


A6 CMU WALL PUNCHED OPENING
3/8" = 1'-0"

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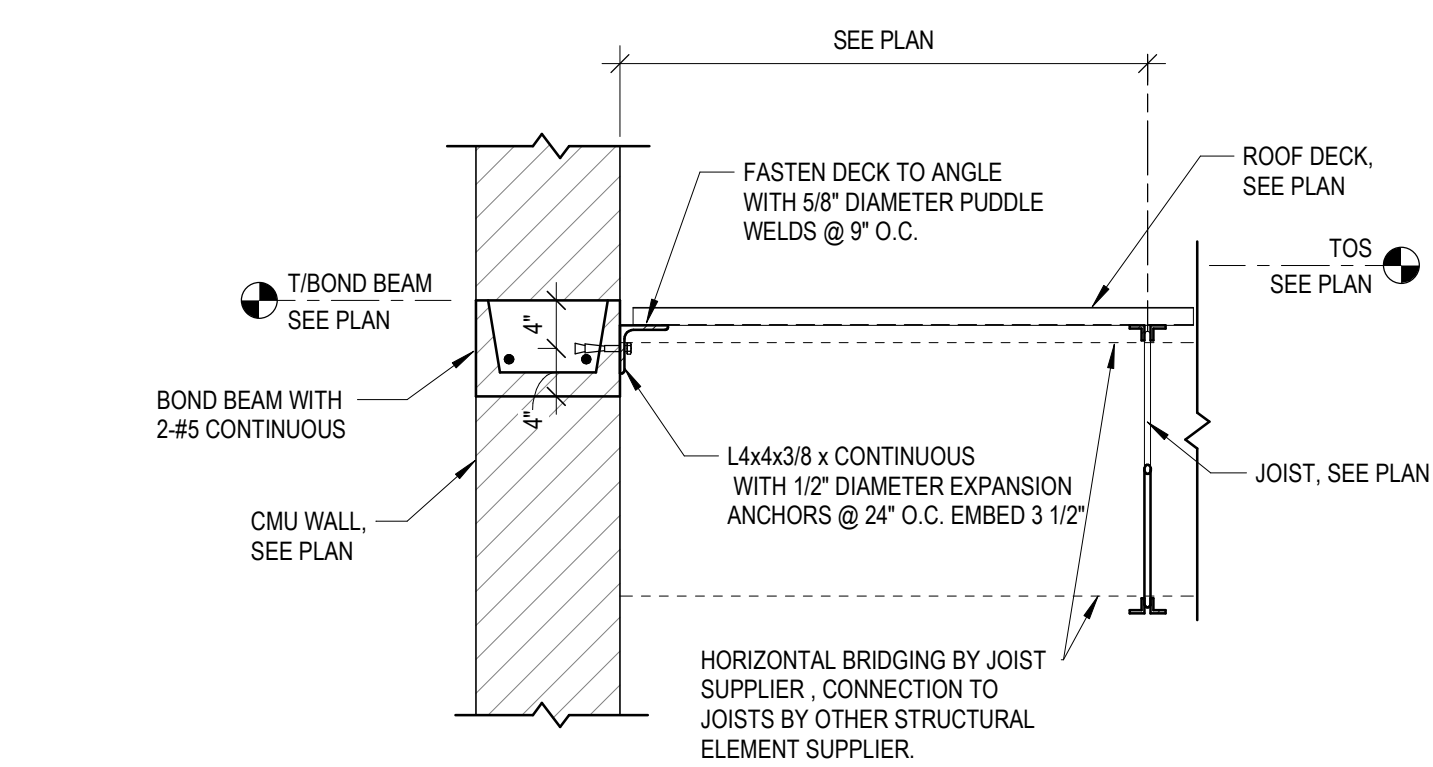
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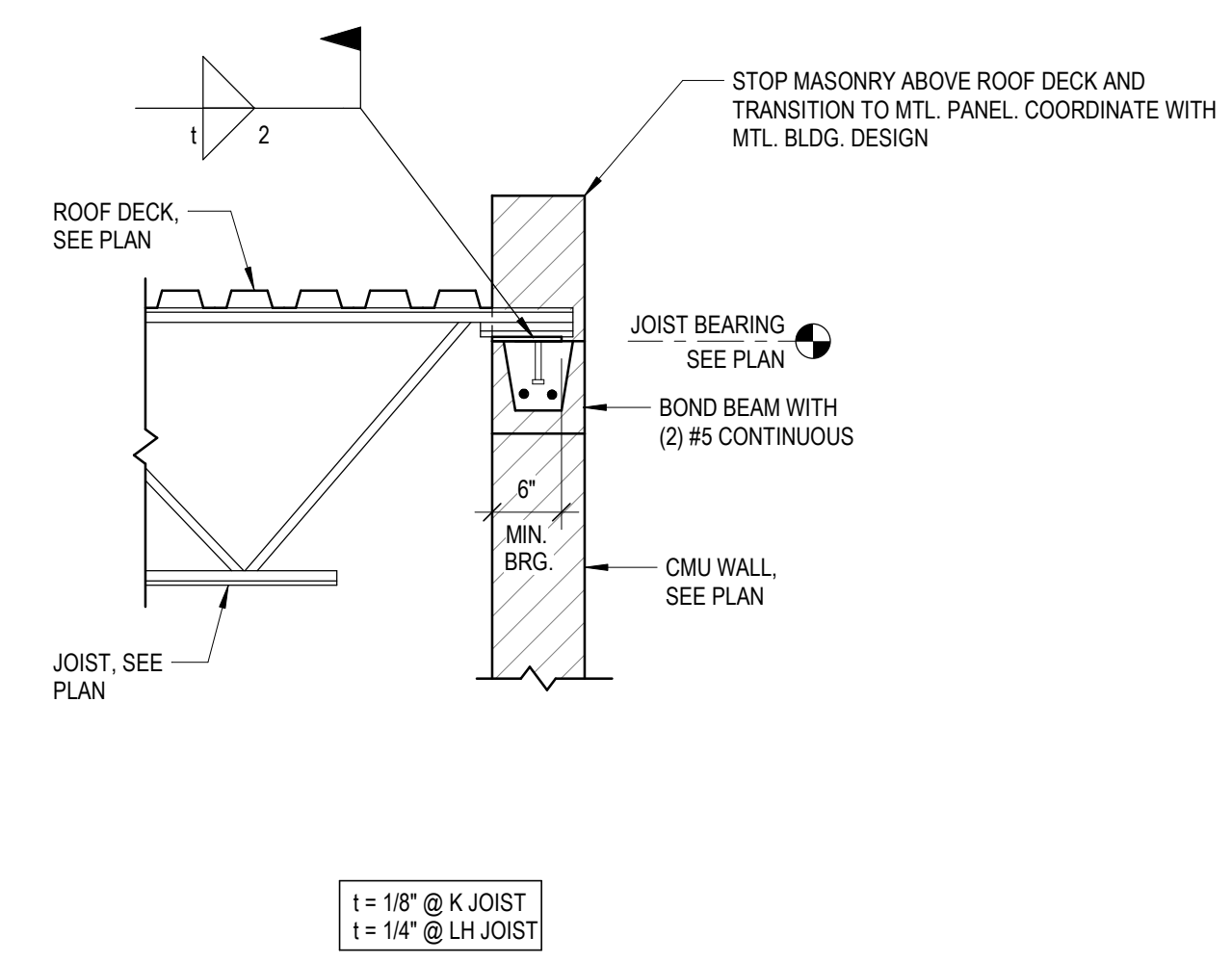
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GENERAL MASONRY DETAILS
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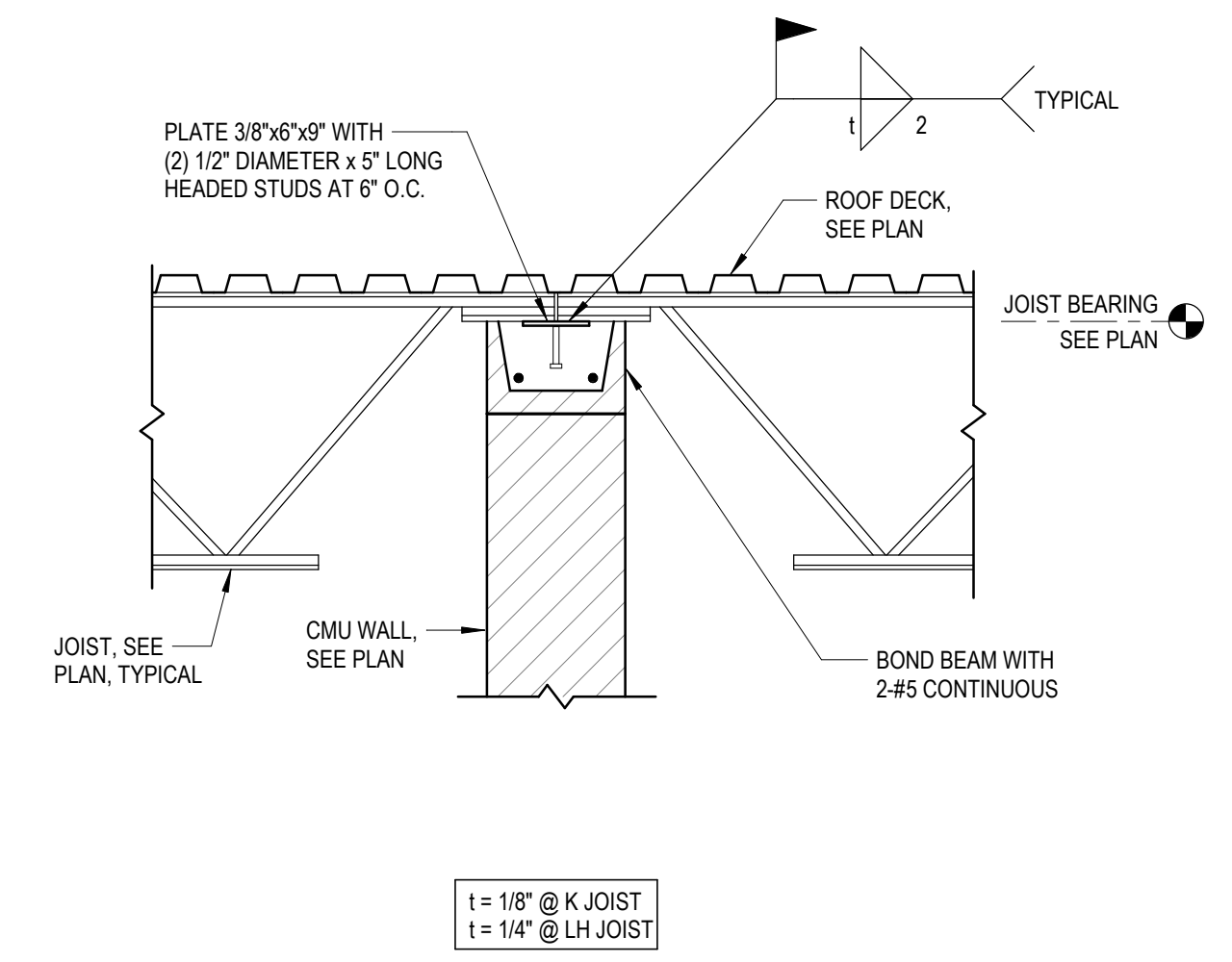
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A4 SECTION
3/4" = 1'-0"



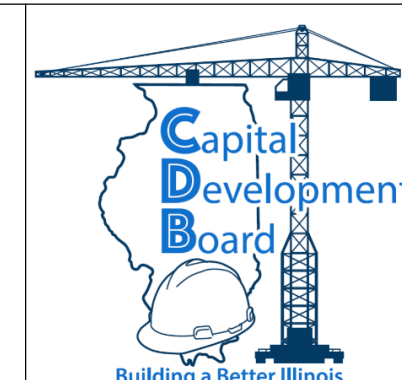
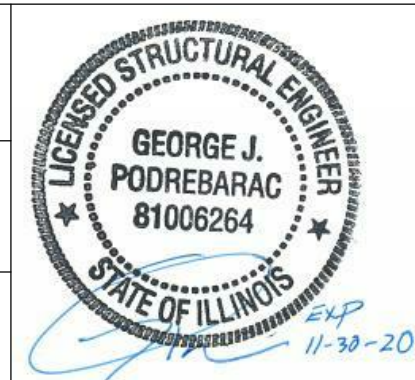
A5 SECTION
3/4" = 1'-0"



A6 SECTION
3/4" = 1'-0"

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

REVISIONS			DRAWN	PREPARED
NO.	DATE	REMARKS	PW	
			TRACED	APPROVED
			CHECKED	APPROVED
A	5/6/20	FINAL BRIDGING DOCUMENTS	GP	

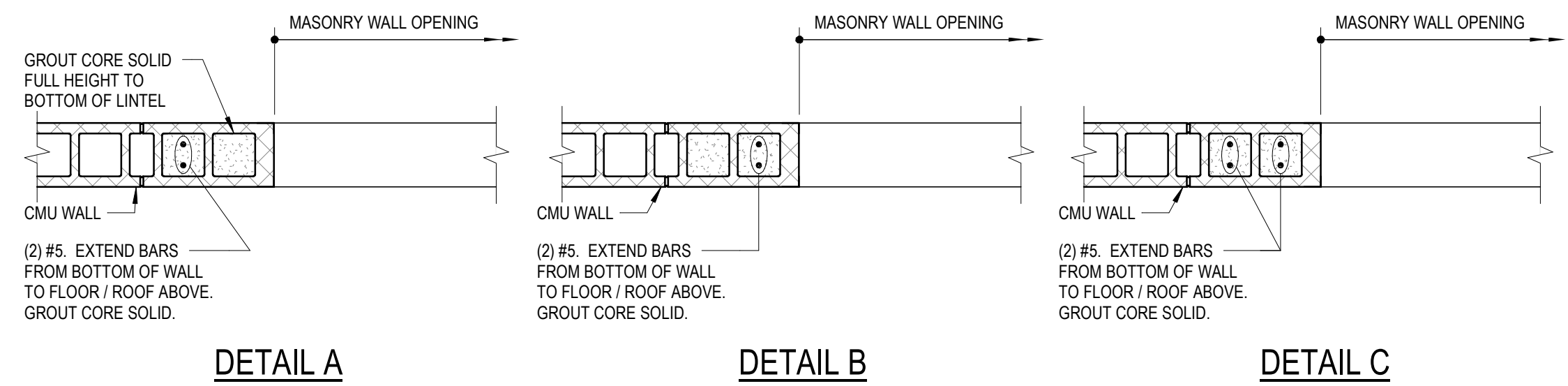
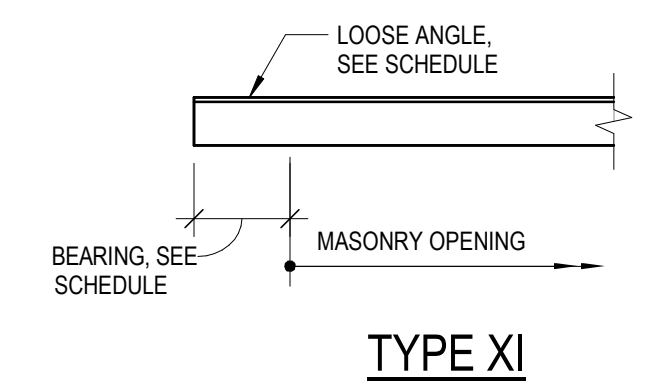
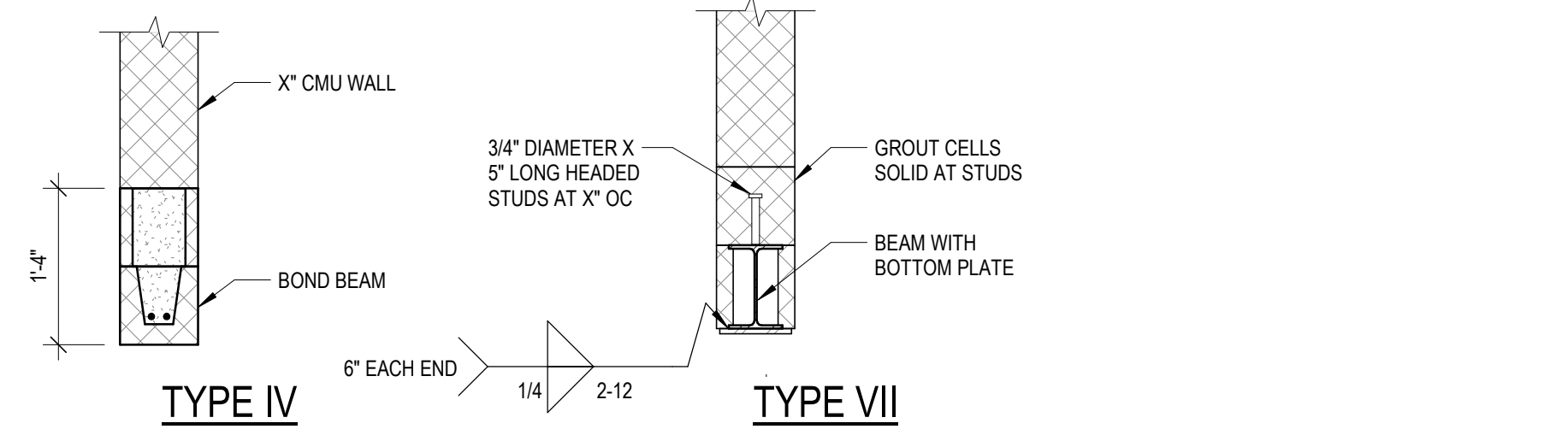
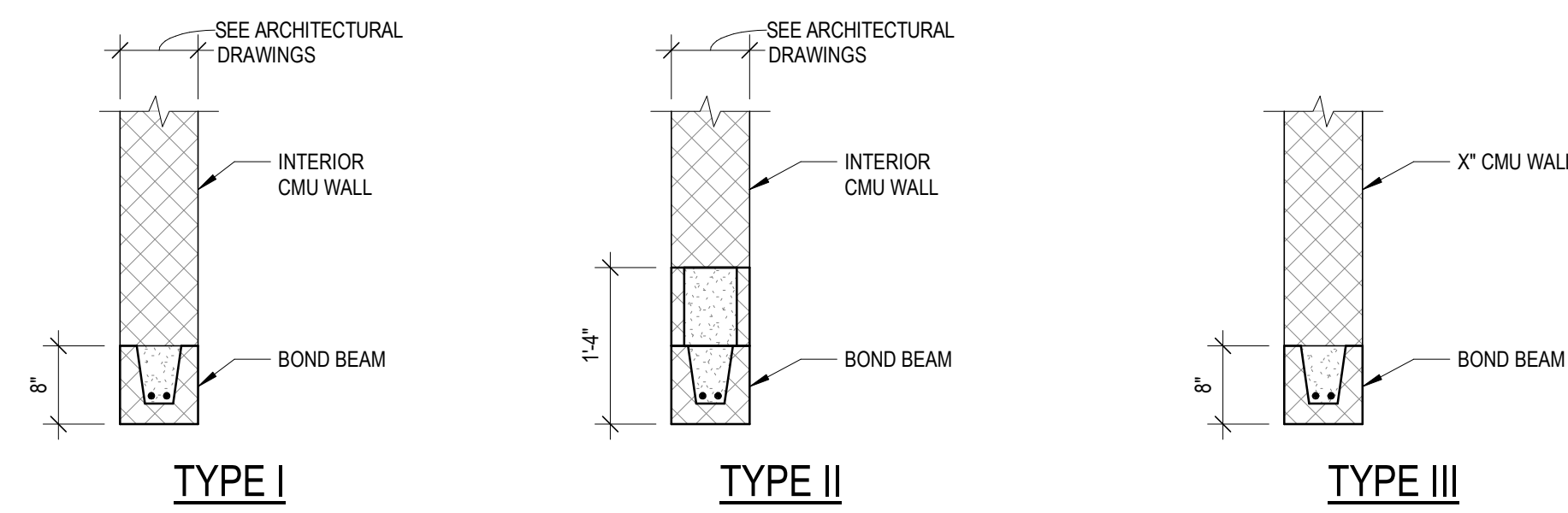


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STEEL FRAMING DETAILS

STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
DATE 01/31/2020
SHEET NO. S4.2
OF () SHEETS



LINTEL SCHEDULE				
MARK	TYPE	SIZE	BEARING LENGTH	REMARKS
N/A	I	8" BOND BEAM WITH (2) #5 BOTTOM	8"	ALL INTERIOR NON-LOAD BEARING WALL OPENINGS LESS THAN OR EQUAL TO 6'-0". SEE DETAIL A5/S5.0.
N/A	II	16" BOND BEAM WITH (2) #5 BOTTOM (PROVIDE (2) #6 BOTTOM WHERE OPENINGS ARE GREATER THAN 10'-0" BUT LESS THAN OR EQUAL TO 12'-0")	8"	ALL INTERIOR NON-LOAD BEARING WALL OPENINGS GREATER THAN 6'-0" BUT LESS THAN OR EQUAL TO 12'-0". SEE DETAIL A5/S5.0.
L1	III	8" BOND BEAM WITH (2) #5 BOTTOM	8"	
L2	IV	16" BOND BEAM WITH (2) #5 BOTTOM	8"	
L3	VII	W8x24 WITH BOTTOM PLATE	8"	

- LINTEL SCHEDULE NOTES:
- SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
 - COORDINATE BOTTOM OF LINTEL ELEVATION WITH ARCHITECTURAL DRAWINGS.
 - ALL DIMENSIONS ARE NOMINAL MASONRY DIMENSIONS UNLESS NOTED OTHERWISE.
 - PROVIDE MINIMUM 6" BEARING EACH END UNLESS NOTED OTHERWISE.
 - FOR CMU LINTELS, CONTRACTOR TO PROVIDE TEMPORARY SHORING UNTIL MASONRY HAS PROPERLY SET (3 DAYS MINIMUM).
 - FOR STEEL LINTELS, PROVIDE 1/4" BOTTOM PLATE UNLESS NOTED OTHERWISE. WIDTH OF PLATE = NOMINAL MASONRY THICKNESS (INCLUDING VENEER) - 1" EXTEND PLATE FULL LENGTH OF LINTEL UNLESS NOTED OTHERWISE.
 - FOR STEEL LINTELS GREATER THAN OR EQUAL TO 12'-0" LONG, PROVIDE 1/2" DIAMETER x 4" LONG HEADED WELDED STUDS AT 32" OC ON TOP FLANGE. STEEL LINTELS LESS THAN 10'-0" LONG MAY BE PLACED LOOSE WITHOUT ANCHOR BOLTS OR BEARING PLATES, UNLESS NOTED OTHERWISE.
 - ALL STEEL LINTELS TO HAVE $F_y = 50$ KSI.
 - SEE SHEET S1.0 FOR LOOSE LINTEL SIZES FOR MASONRY VENEER.

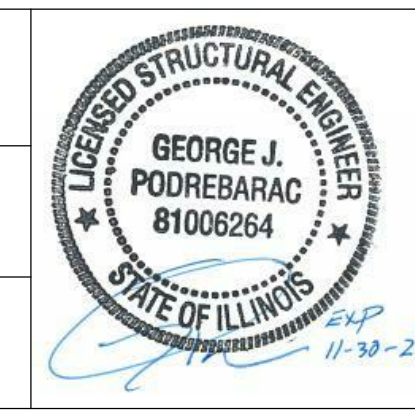
LINTEL SCHEDULE

MASONRY LINTEL TYPE SCHEDULE

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REVISIONS		
NO.	DATE	REMARKS
A	5/6/20	FINAL BRIDGING DOCUMENTS

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TRACED	APPROVED
CHECKED GP	APPROVED



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SCHEDULES AND NOTES

STEVENS ON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO.
630-128-005

DATE
01/31/2020

SHEET NO.
S5.0

OF () SHEETS

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
-----	DOMESTIC COLD WATER
-----	DOMESTIC HOT WATER
-----	DOMESTIC HOT WATER RETURN
-SAN-	SANITARY DRAIN
-V-	SANITARY VENT PIPING
-ST-	STORM DRAIN PIPING
-G-	NATURAL GAS
-----	CONTINUATION
-----	ELBOW DOWN
-----	ELBOW UP
-----	RISE OR DROP
-----	TEE DOWN
-----	TEE UP
-----	CAP OR BLIND FLANGE
-----	UNION
-----	GATE VALVE
-----	BALLVALVE
-----	CHECK VALVE
-----	CLEANOUT
-----	LINE TYPE CLEANOUT
-----	HOSE BIBB OR FROST PROOF HYDRANT
-----	AQUASTAT
-----	PRESSURE GAUGE
-----	FLOOR DRAIN
-----	ROOF DRAIN

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
CAP	CAPACITY
CO	FLOOR CLEANOUT
CW	COLD WATER
DIA	DIAMETER
EW-C	ELECTRIC WATER COOLER
EW-T	ENTERING WATER TEMPERATURE
FD-#	FLOOR DRAIN
FT	FEET
G	NATURAL GAS PIPING
GAL	GALLONS
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HW	HOT WATER
HWH-#	DOMESTIC WATER HEATER
HWR	HOT WATER RETURN
IN. WC.	INCHES OF WATER COLUMN
L-#	LAVATORY
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MB	MOP BASIN
MBH	1000 BTU PER HOUR
MIN	MINIMUM
N.C.	NORMALLY CLOSED
NPW	NON POTABLE WATER
OFD	OVERFLOW DRAIN
O.S.&Y.	OUTSIDE STEM AND YOKE
RD	ROOF DRAIN
RPZ	REDUCED PRESSURE ZONE
S-#	KITCHEN SINK
SAN	SANITARY SEWER
SB	SUPPLY BOX
SH	SHOWER
SI	SAND INTERCEPTOR
ST	STORM WATER PIPING
TD-#	TRENCH DRAIN
TMV	THERMOSTATIC MIXING VALVE
TW	TEMPERED WATER
TYP	TYPICAL
UR	URINAL
V	SANITARY VENT
WC	WATER CLOSET
WH	WALL HYDRANT
YCO	YARD CLEANOUT

PLUMBING GENERAL NOTES

- ALL WORK SHALL BE DESIGNED AND COMPLY WITH CHICAGO PLUMBING CODE.
- PIPING IS SHOWN IN SCHEMATIC FORM ONLY. CHANGES IN ELEVATION ARE NOT NECESSARILY SHOWN. ROUTE PIPING IN AN ORDERLY MANNER AS REQUIRED FOR CLEARANCE WITH STRUCTURAL CONDITIONS. COORDINATE LOCATION OF PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. WHERE POSSIBLE, RACK PIPING HORIZONTALLY AND VERTICALLY.
- COORDINATE LOCATIONS AND SIZES OF CONNECTIONS TO EQUIPMENT BEING PROVIDED BY OTHERS.
- PROVIDE AND INSTALL ISOLATION VALVES IN ALL BRANCH PIPING, EXCLUDING SANITARY SEWER AND VENT.
- PROVIDE AND INSTALL ISOLATION VALVES FOR INDIVIDUAL BATHROOM GROUPS.
- CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED WITH ISOLATION VALVES AND UNIONS TO FACILITATE EQUIPMENT REMOVAL.
- LOCATE ALL ISOLATION VALVES IN AN ACCESSIBLE LOCATION.
- UNLESS OTHERWISE NOTED, CONCEAL ALL PLUMBING PIPING ABOVE CEILINGS, IN WALLS, OR INSIDE CHASES. WHERE PIPING IS EXPOSED IN OCCUPIED SPACE, HOLD TIGHT TO CEILING. HW AND CW IN ACCESSIBLE CHASES SHALL BE INSTALLED IN AS SUCH THAT THE PIPING IS ACCESSIBLE AND FULLY DRAINABLE BY MAINTENANCE STAFF.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SUPPORTING SYSTEMS AND DEVICES FOR ALL PLUMBING PIPING, EQUIPMENT, AND ACCESSORIES.
- COORDINATE THE LOCATIONS AND HEIGHTS OF ALL FIXTURES WITH ARCHITECTURAL PLANS AND CODE REQUIREMENTS PRIOR TO INSTALLATION.
- PROVIDE AND INSTALL SLEEVES FOR ALL PIPING PASSING THROUGH WALLS, AND FLOORS. COORDINATE LOCATION AND ELEVATIONS OF ALL PIPING WITH STRUCTURAL/FOUNDATION PLANS PRIOR TO FOUNDATION/WALL INSTALLATION.
- LOCATE ALL PLUMBING EQUIPMENT TO PROVIDE MANUFACTURER'S MINIMUM SERVICE CLEARANCES.
- VENTS SERVING FLOOR DRAINS LOCATED BELOW GRADE SHALL NOT BE COMBINED BELOW THE LEVEL OF THE FLOOD RIM OF ALL ADJACENT FIXTURES.
- THIS FACILITY IS NOT A COMMERCIAL OR INDUSTRIAL VEHICLE WASH INSTALLATION AS DEFINED BY THE CHICAGO PLUMBING CODE.

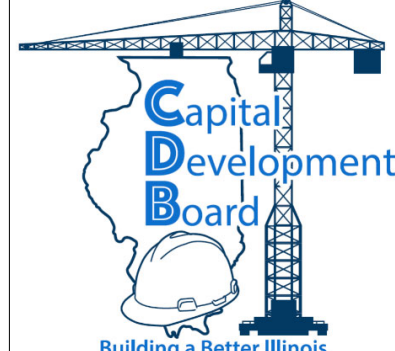
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REVISIONS			DRAWN	PREPARED	PLUMBING NOTES AND SYMBOLS		PROJECT NO. 630-128-005
NO.	DATE	REMARKS	Author	APPROVED			DATE 05/06/2020
			TRACED	APPROVED			SHEET NO. P0.01
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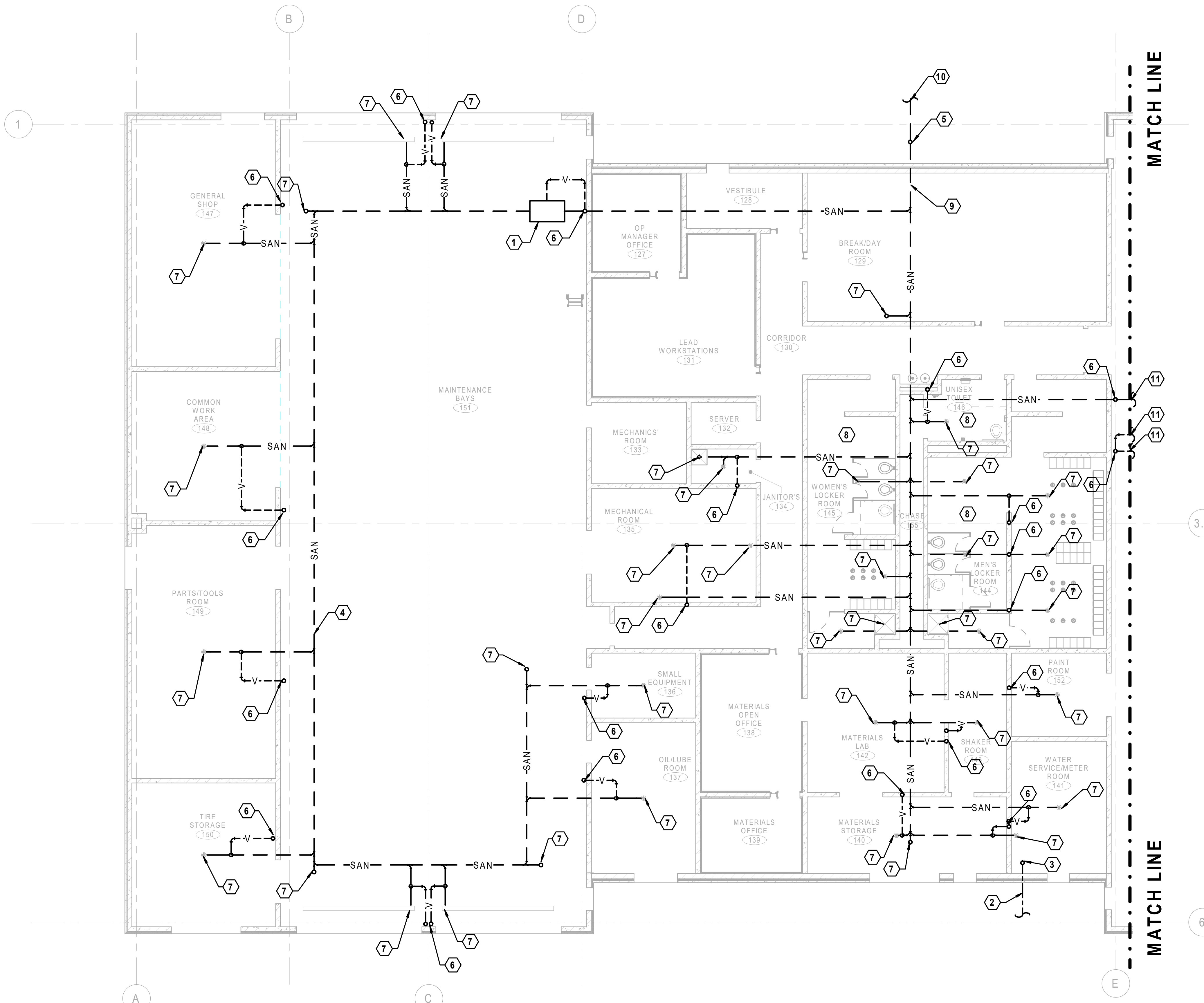
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PLUMBING NOTES AND SYMBOLS

STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525



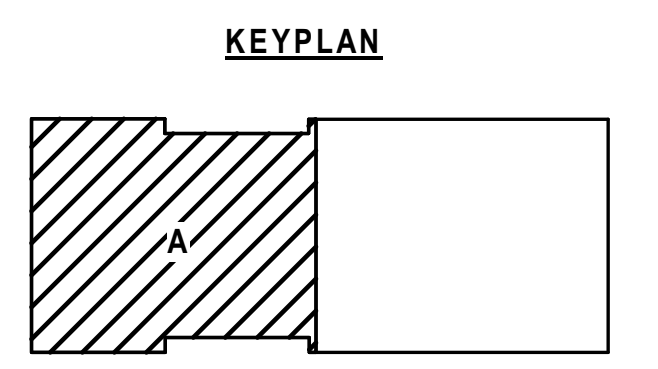
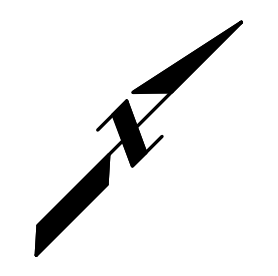
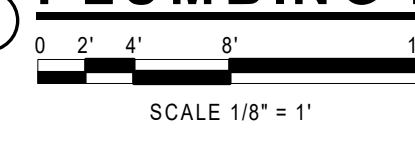
NOTES (THIS SHEET)

- SEE SHEET P0.01 FOR PLUMBING GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES (THIS SHEET)

- OIL WATER SEPARATOR
- COMBINATION WATER SERVICE BELOW GRADE.
- COMBINATION WATER SERVICE UP INTO WATER ROOM.
- SAN PIPING BELOW GRADE (TYP).
- SAN PIPING OUT TO SANITARY SEWER. PROVIDE YARD CLEANOUT WITHIN 5 FT OF BUILDING.
- VENT PIPING TO FLOOR ABOVE. SEE FIRST FLOOR PLUMBING PLAN FOR CONTINUATION.
- SANITARY PIPING TO FIXTURE ABOVE. SEE FIRST FLOOR PLUMBING PLAN FOR CONTINUATION.
- MAKE FINAL SANITARY CONNECTION TO FIXTURES IN THIS AREA.
- BUILDING DRAIN.
- BUILDING SEWER. SEE CIVIL SITE PLANS.
- SANITARY/VENT PIPING. SEE SHEET P2.01 FOR CONTINUATION.

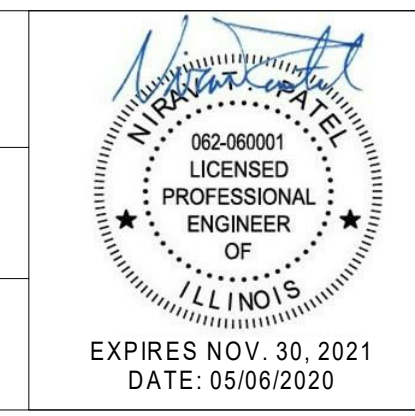
1 PLUMBING FOUNDATION PLAN - AREA A



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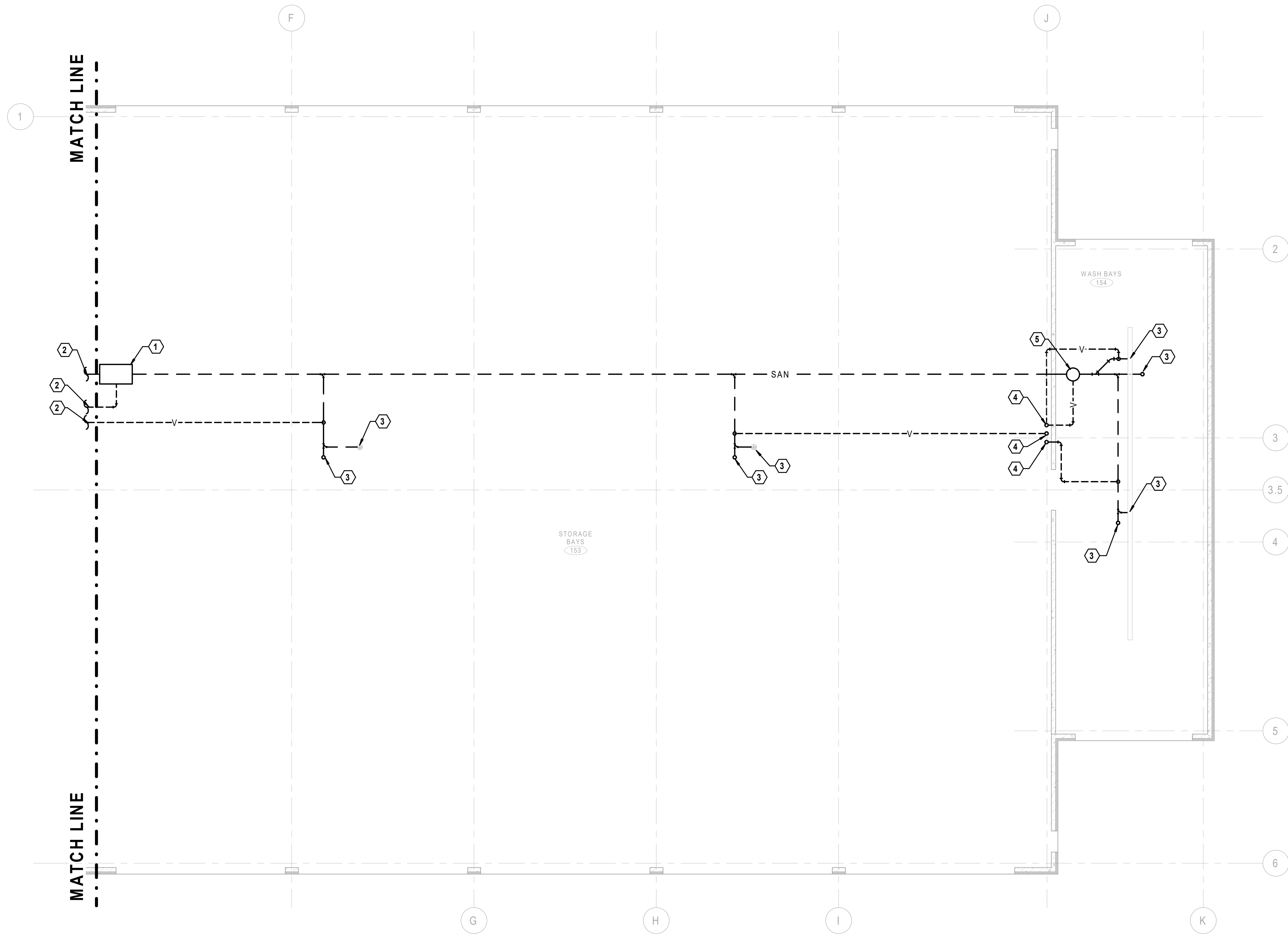
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PLUMBING FOUNDATION PLAN-AREA A
 STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO.
630-128-005
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P2.00
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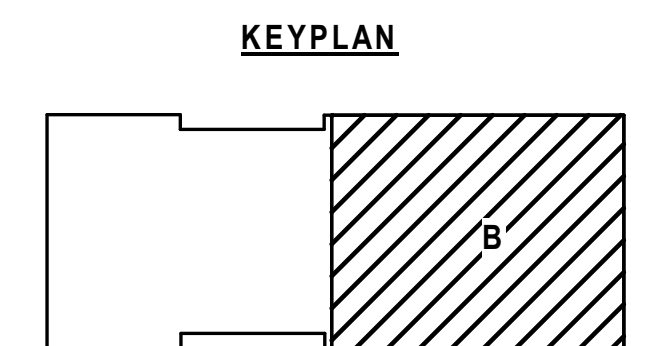
NOTES (THIS SHEET)

- SEE SHEET P0.01 FOR PLUMBING GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES (THIS SHEET)

- OIL WATER SEPARATOR
- SANITARY/VENT PIPING. SEE SHEET P2.00 FOR CONTINUATION.
- SANITARY PIPING TO FIXTURE ABOVE. SEE FIRST FLOOR PLUMBING PLAN FOR CONTINUATION.
- VENT PIPING TO FLOOR ABOVE. SEE FIRST FLOOR PLUMBING PLAN FOR CONTINUATION.
- CATCH BASIN.

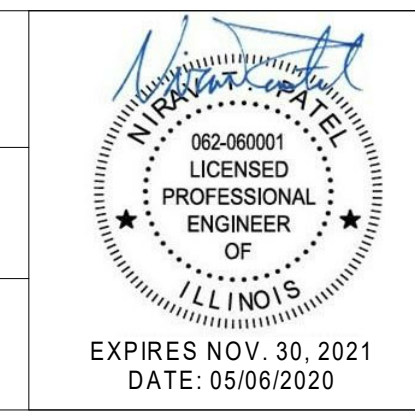
1 PLUMBING FOUNDATION PLAN - AREA B
 SCALE 1/8" = 1'



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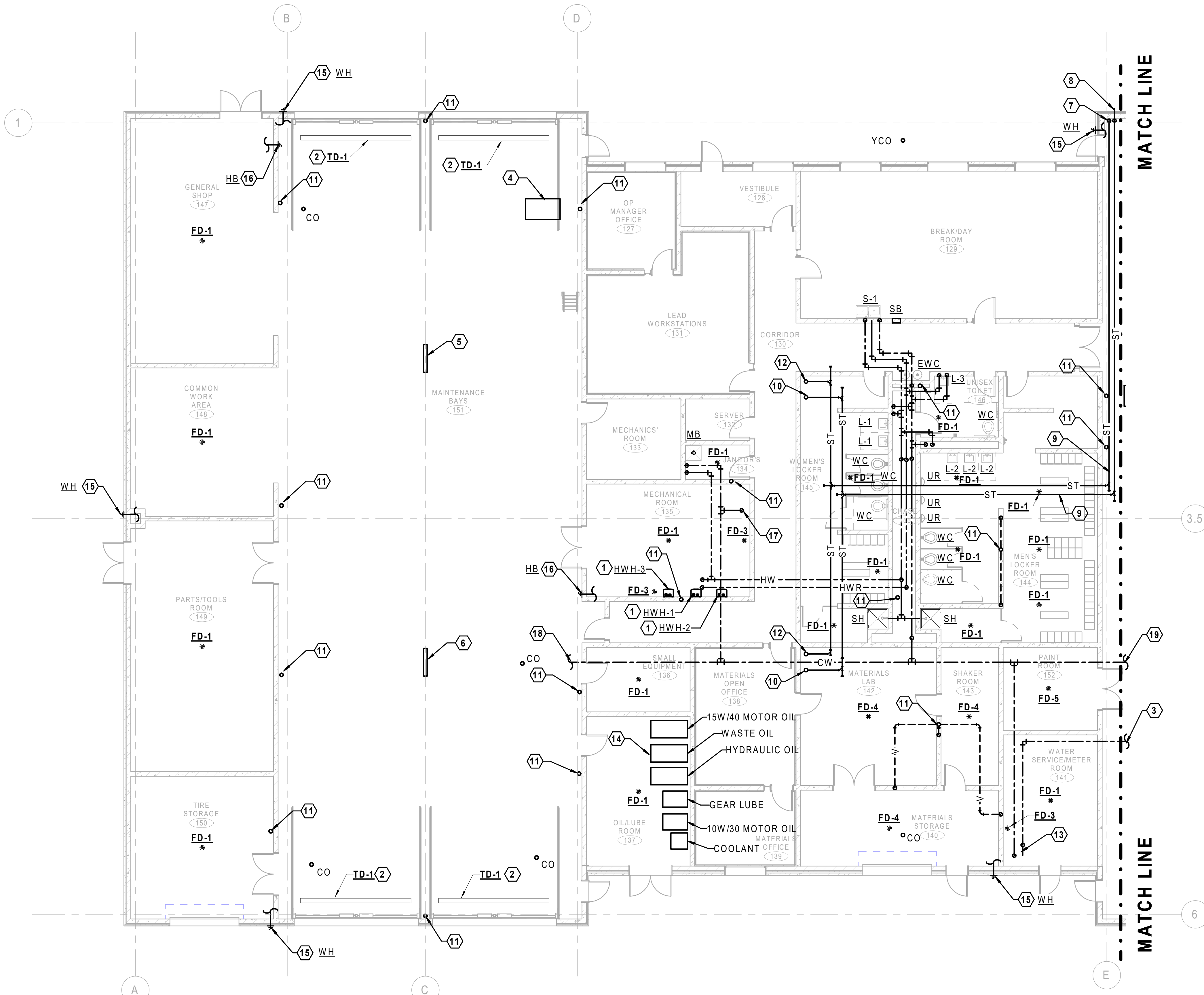
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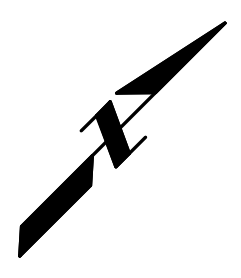
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PLUMBING FOUNDATION PLAN-AREA B
 STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
DATE 05/06/2020
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PLUMBING PLAN - AREA A
 SCALE 1/8" = 1'
 0 2' 4' 8' 16'



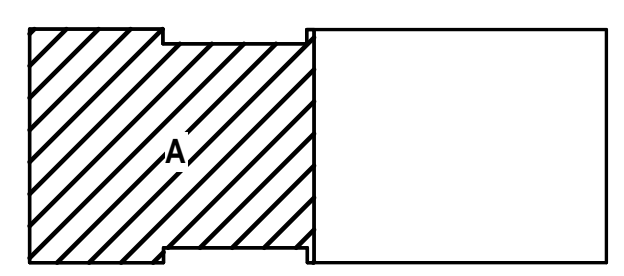
NOTES (THIS SHEET)

- SEE SHEET P0.01 FOR PLUMBING GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES (THIS SHEET)

- GAS-FIRED INSTANTANEOUS WATER HEATER. COMBUSTION AIR INTAKE AND EXHAUST BY PLUMBING CONTRACTOR.
- TRENCH DRAIN
- CW TO TRUCK WASH EXPOSED AT CEILING.
- OIL WATER SEPARATOR
- LUBE RACK WITH HOSE DROPS SERVING NORTH MAINTENANCE BAYS. SEE DETAILS.
- LUBE RACK WITH HOSE DROPS SERVING SOUTH MAINTENANCE BAYS. SEE DETAILS.
- STORM PIPING DOWN TO BELOW GRADE.
- DISCHARGE STORM OVERFLOW PIPING AT GRADE WITH DISCHARGE NOZZLE.
- ROUTE STORM PIPING ABOVE PLENUM AND INTO STORAGE BAY. ROUTE PIPING NEAR STORAGE BAY WALL.
- STORM OVERFLOW PIPING CONCEALED ABOVE CEILING AND UP TO ROOF DRAIN.
- VENT THROUGH ROOF. EXACT LOCATION TO BE DETERMINED BASED ON FINAL CONFIGURATION (TYPICAL).
- STORM PIPING CONCEALED ABOVE CEILING AND UP TO ROOF DRAIN.
- PROVIDE WATER SERVICE METER AND BACKFLOW PREVENTER.
- DOUBLE WALL STORAGE TANKS. SEE PLUMBING DETAILS.
- PROVIDE HEAT-TRACED WALL HYDRANT. MAKE CONNECTION TO CW PIPING.
- PROVIDE HOSE BIBB. MAKE CONNECTION TO CW PIPING.
- CW DROP TO BOILER.
- CW TO MAINTENANCE BAY AREA. MAKE FINAL CONNECTIONS TO FIXTURES.
- CW TO STORAGE BAY AREA. MAKE FINAL CONNECTIONS TO FIXTURES.

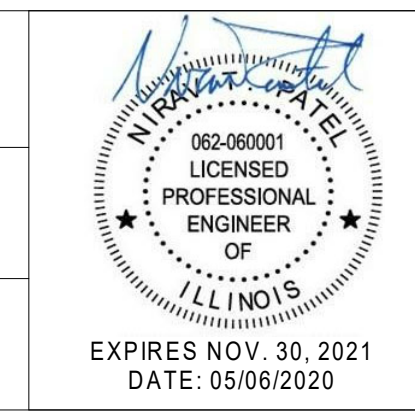
KEYPLAN



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PLUMBING PLAN - AREA A
 STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

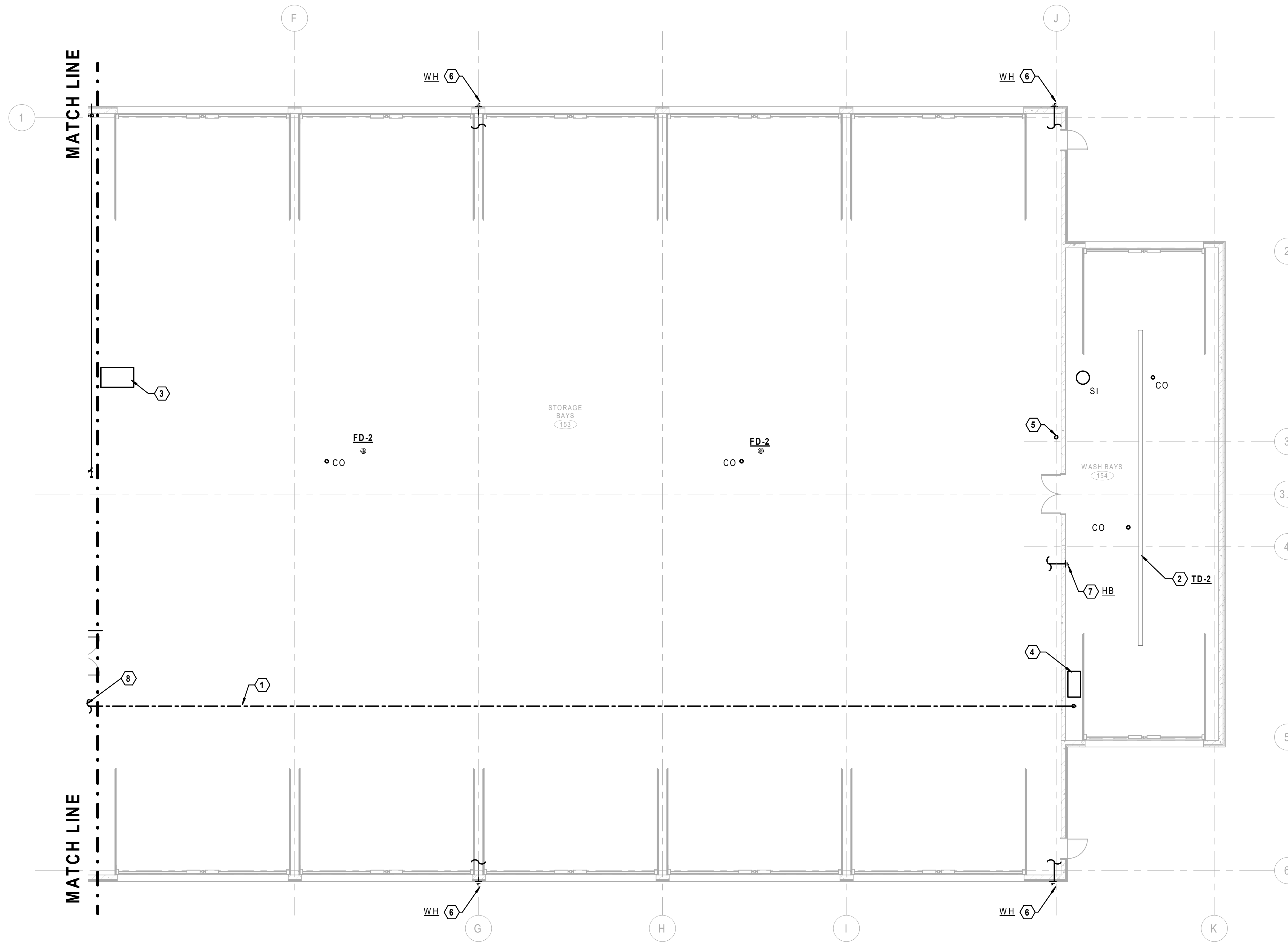
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NOTES (THIS SHEET)

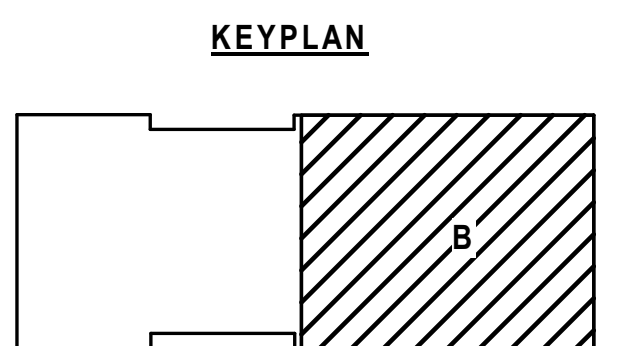
- SEE SHEET P0.01 FOR PLUMBING GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES (THIS SHEET)

- CW TO TRUCK WASH EXPOSED AT CEILING.
- TRENCH DRAIN
- OIL WATER SEPARATOR
- HOT WATER PRESSURE WASHER, 7.5 HP. MAKE CONNECTION TO CW AND G LINES. INSTALL COMBUSTION AIR INTAKE AND EXHAUST THROUGH ROOF PER MANUFACTURER REQUIREMENTS.
- VENT THROUGH ROOF. EXACT LOCATION TO BE DETERMINED BASED ON FINAL CONFIGURATION (TYPICAL).
- PROVIDE HEAT-TRACED WALL HYDRANT. MAKE CONNECTION TO CW PIPING.
- PROVIDE HOSE BIBB. MAKE CONNECTION TO CW PIPING.
- CW PIPING. SEE SHEET P2.10 FOR CONTINUATION.



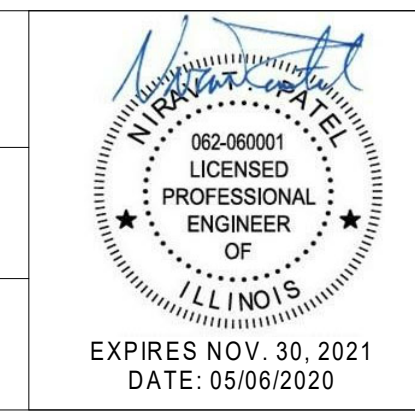
PLUMBING PLAN - AREA B
 SCALE 1/8" = 1'



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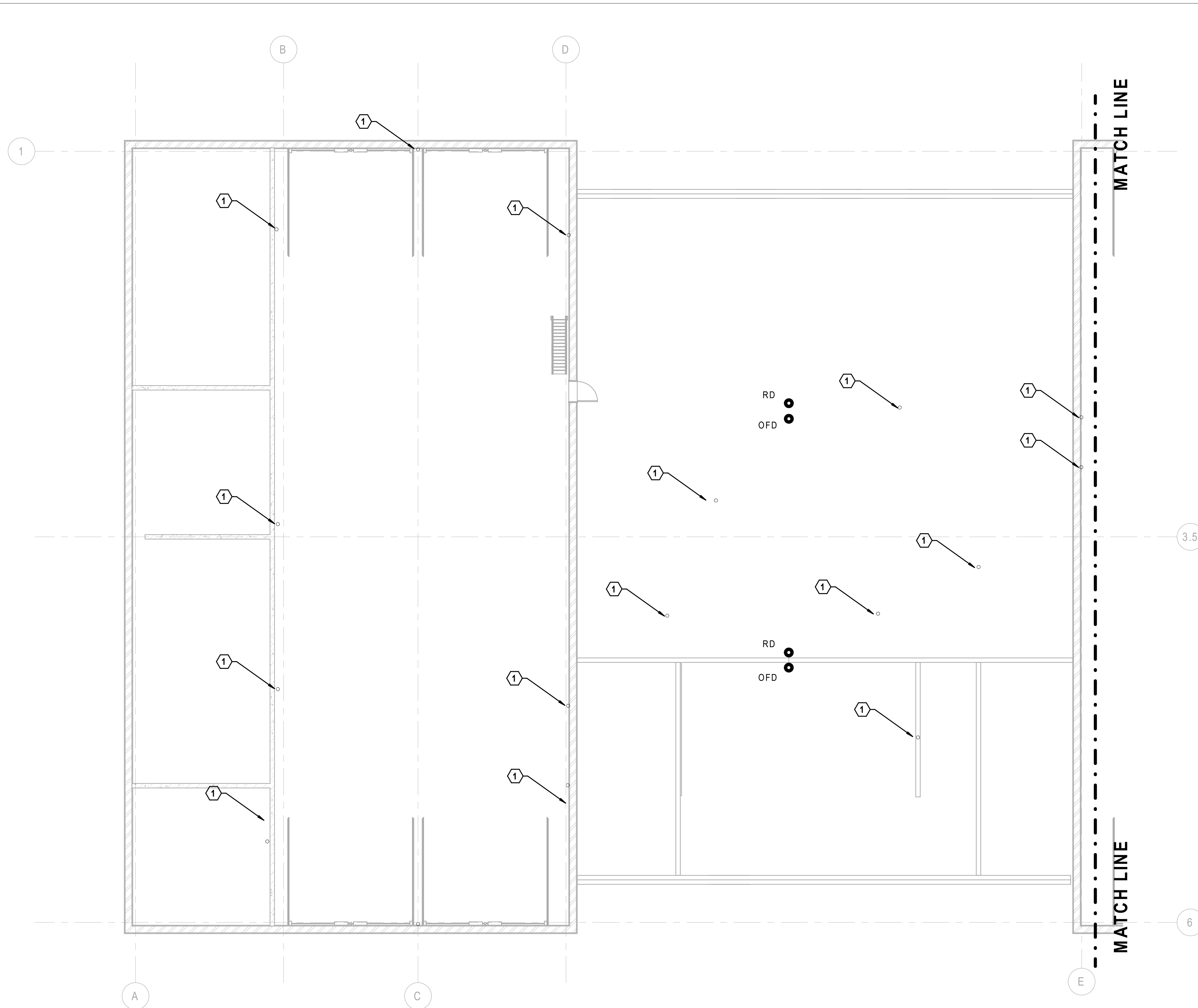
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 Illinois Capital Development Board

PLUMBING PLAN - AREA B
 STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO.
630-128-005
 DATE
05/06/2020
 SHEET NO.
P2.11
 OF () SHEETS



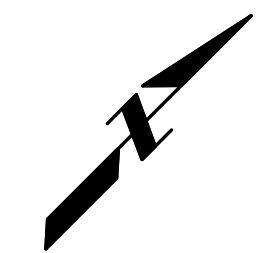
NOTES (THIS SHEET)

- 1. SEE SHEET P0.01 FOR PLUMBING GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

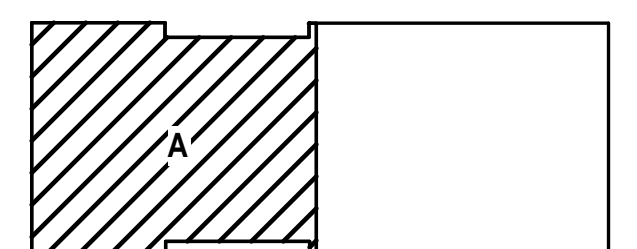
KEYNOTES (THIS SHEET)

- 1 VENT THROUGH ROOF. EXACT LOCATION TO BE DETERMINED BASED ON FINAL CONFIGURATION (TYPICAL).

1 PLUMBING PLAN - ROOF AREA A



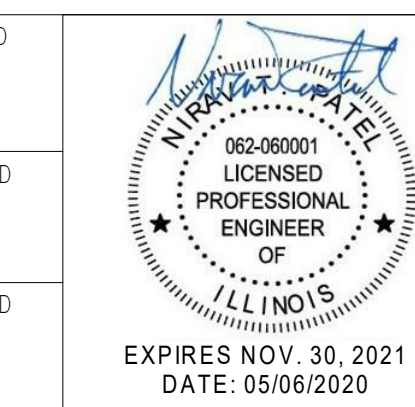
KEYPLAN



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REVISIONS		
NO.	DATE	REMARKS
A	5/6/20	FINAL BRIDGING DOCUMENTS

DRAWN TAS	PREPARED
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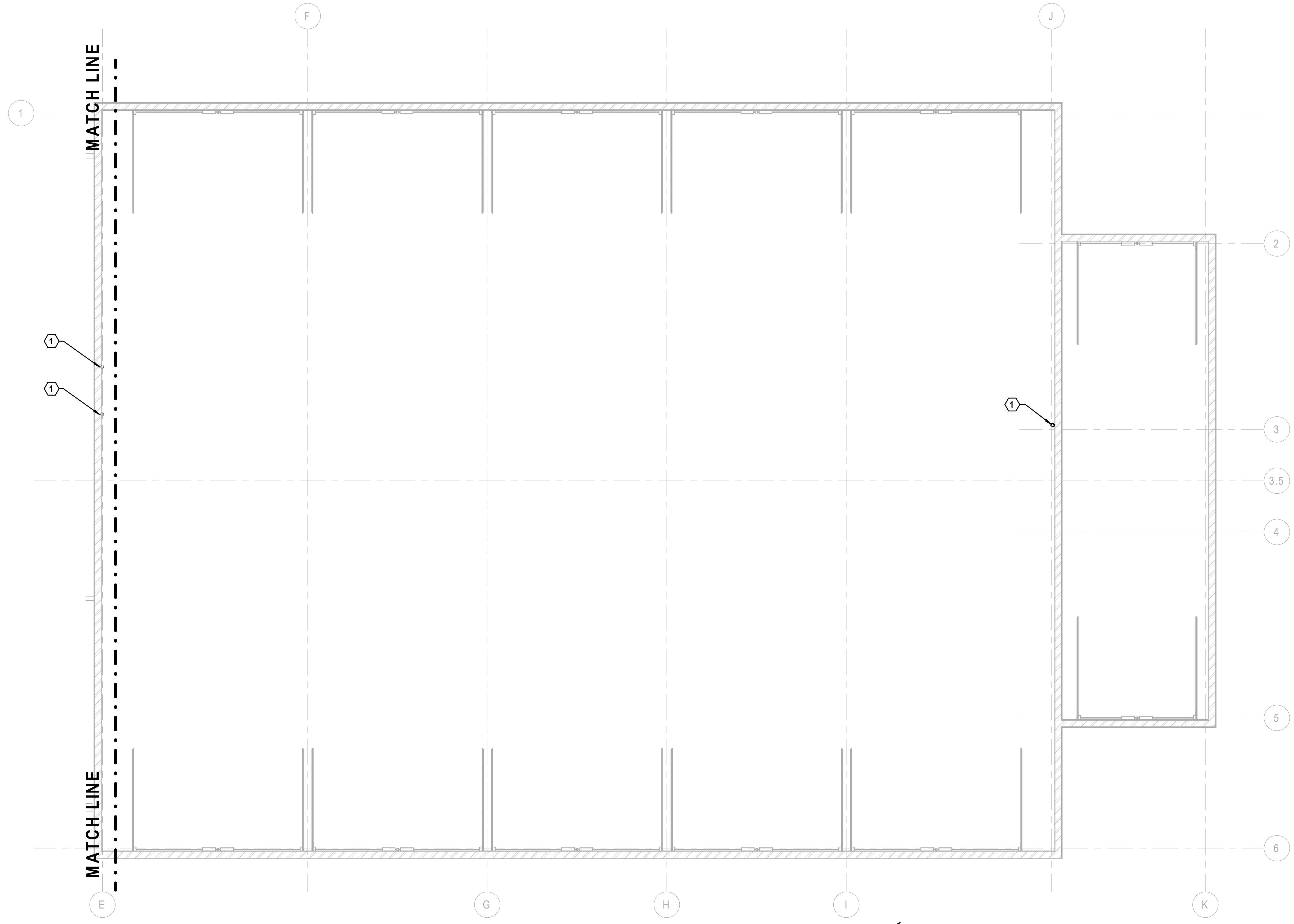


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PLUMBING PLAN - ROOF AREA A

STEVENS ON YARD MAINTENANCE FACILITY
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 MCCOOK, COOK COUNTY, ILLINOIS 60525

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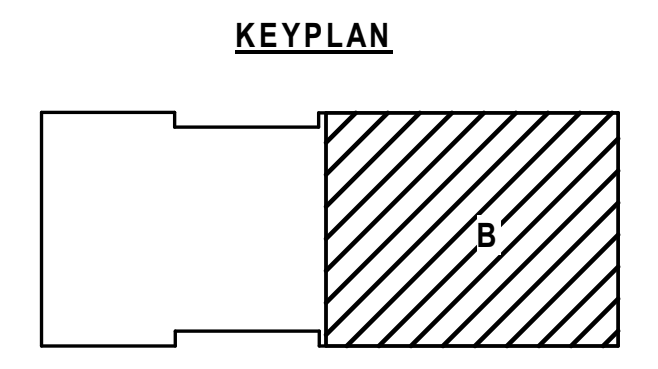
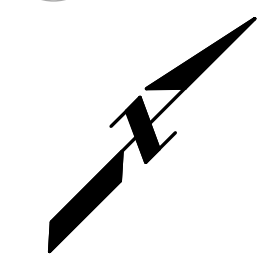
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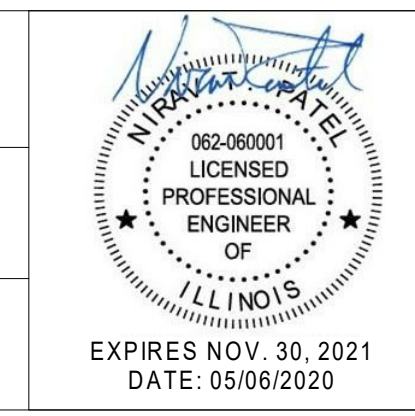
1 PLUMBING PLAN - ROOF AREA B



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PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	ROUGH-IN PIPE SIZES				DESCRIPTION			
		SAN	VENT	HW	CW				
WC	WATER CLOSET	4"	2"	--	1-1/4"	WALL HUNG, SIPHON JET VITREOUS CHINA CLOSET WITH ELONGATED RIM, 1-1/2 INCH TOP SPUD, EXPOSED MANUAL FLUSH VALVE, MAXIMUM 1.6 GALLON FLUSH, SOLID WHITE PLASTIC OPEN FRONT SEAT, EXTENDED BACK, SELF-SUSTAINING HINGE, BRASS BOLTS, WITHOUT COVER, FLOOR SET CARRIER.			
UR	ACCESSIBLE URINAL	2"	2"	--	3/4"	VITREOUS CHINA, WALL HUNG WASHOUT URINAL WITH INTEGRAL TRAP, 3/4" TOP SPUD, EXPOSED MANUAL OPERATED FLUSH VALVE, MAXIMUM 1.0 GALLON FLUSH, MOUNT WITH RIM 17" ABOVE FINISHED FLOOR, FLOOR SET CARRIER.			
L-1	COUNTER WITH INTEGRAL LAVATORY (DOUBLE BOWL)	1-1/2"	1-1/2"	1/2"	1/2"	SINGLE LEVER HANDLE WITH POP-UP DRAIN, MAXIMUM 0.5 GPM, AERATOR AND COVER PLATE. PROVIDE WITH: 17 GA. CHROME PLATES P-TRAP WITH ESCUTCHEON, OFFSET WASTE, WHEEL HANDLE STOPS, FLEXIBLE SUPPLIES AND ADA INSULATED TRAP AND WASTE. PROVIDE THERMOSTATIC MIXING VALVE.			
L-2	COUNTER WITH INTEGRAL LAVATORY (TRIPLE BOWL)	1-1/2"	1-1/2"	1/2"	1/2"	SINGLE LEVER HANDLE WITH OPEN GRID DRAIN STRAINER, MAXIMUM 0.5 GPM, AERATOR AND COVER PLATE. PROVIDE WITH: 17 GA. CHROME PLATES P-TRAP WITH ESCUTCHEON, OFFSET WASTE, WHEEL HANDLE STOPS, FLEXIBLE SUPPLIES AND ADA INSULATED TRAP AND WASTE, FLOOR SET CARRIER. PROVIDE THERMOSTATIC MIXING VALVE.			
L-3	WALL MOUNTED LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	WALL HUNG, VITROUS CHINA, SINGLE LEVER HANDLE WITH OPEN GRID DRAIN STRAINER, MAXIMUM 0.5 GPM, AERATOR AND COVER PLATE. PROVIDE WITH: 17 GA. CHROME PLATES P-TRAP WITH ESCUTCHEON, OFFSET WASTE, WHEEL HANDLE STOPS, FLEXIBLE SUPPLIES AND ADA INSULATED TRAP AND WASTE. PROVIDE THERMOSTATIC MIXING VALVE.			
EWC	DOUBLE ELECTRIC WATER COOLER	1-1/2"	1-1/2"	--	1/2"	ADA COMPLIANT, B-LEVEL, FILTERED, BOTTLE FILLING STATION ON ONE FOUNTAIN, SELF CONTAINED 120V, WATER COOLER, MINIMUM OF 8.0 GPH OF 50F WATER FROM 80F AT 90F AMBIENT USING R134a, ANTI-MICROBIAL PUSH BUTTON OPERATION, 0.3 GPM NON-SQUIRT BUBBLER, 304 STAINLESS BASIN AND CABINET.			
MB	MOP BASIN	3"	2"	3/4"	3/4"	24" X 24" X 10" WHITE MOLDED STONE, FLOOR MOUNTED, STAINLESS STEEL STRAINER, .36" STAINLESS STEEL WALL GUARD ON TWO WALLS EXPOSED WALL TYPE SUPPLY WITH LEVER HANDLES, SPOUT WALL BRACE, VACUUM BREAKER, HOSE ENDSPOUT, STRAINERS, ECCENTRIC ADJUSTABLE INLETS, INTEGRAL SCREWDRIVER STOPS WITH COVERING CAPS AND ADJUSTABLE THREADED WALL FLANGES. PROVIDE WITH 5 FEET OF 1/2 INCH DIAMETER PLAIN END REINFORCED RUBBER HOSE, HOSE CLAMP HANGER, AND MOP HANGER.			
SH	TILED SHOWER	FD-1	--	1/2"	1/2"	CONCEALED SHOWER SUPPLY WITH PRESSURE BALANCED MIXING VALVES WITH DIVERTER VALVE, INTEGRAL SERVICE STOPS, SHOWER HEAD AND HAND HELD SHOWER WITH 60 INCH METAL CLAD HOSE AND 51 INCH SLIDE BAR, FEMALE INLET. PROVIDE BACKFLOW PROTECTION IN ACCORDANCE WITH ASME A112.18.1 OR BY DEVICE COMPLYING WITH ASME 112.18.3.			
S-1	DOUBLE BOWL KITCHEN SINK	2"	2"	1/2"	1/2"	18 GA. DOUBLE BOWL, 60/40 SPLIT WITH LOW CENTER DIVIDER, STAINLESS STEEL SINK, 32" X 18" X 9" BOWL, SEAMLESS WELDED DRAIN COLLAR AND MATCHING BASKET STRAINER DRAIN KIT, ASME A112.19.3 COMPLIANT, SINGLE HANDLE, ONE HOLE HIGH ARCH PULL DOWN SPOUT WITH SPRAY, 1.5 GPM.			
HB	HOSE BIBB	--	--	3/4"	--	ANTI-SIPHON WITH EXTERNAL VACUUM BREAKER, VANDAL RESISTANT STEM WITH 3/4" HOSE CONNECTION WITH 3/4" FPT INLET.			
WH	WALL HYDRANT	--	--	3/4"	--	ENCASED ANTI-SIPHON AUTOMATIC DRAIN WITH FREEZE PROOF INTEGRAL VACUUM BREAKER, VANDAL RESISTANT STEM WITH 3/4" HOSE CONNECTION WITH 3/4" FPT INLET.			
FD-1	FLOOR DRAIN	2" MIN	2" MIN	--	--	ASME A112.21.1: LACQUERED CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, AND 6 INCH ROUND, ADJUSTABLE NICKEL-BRONZE STRAINER			
FD-2	FLOOR DRAIN	2" MIN	2" MIN	--	--	ASME A112.21.1: LACQUERED CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, AND 12 INCH ROUND, ADJUSTABLE NICKEL-BRONZE STRAINER			
FD-3	FLOOR DRAIN	2" MIN	2" MIN	--	--	ASME A112.21.1: LACQUERED CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, AND 6" ROUND, ADJUSTABLE NICKEL-BRONZE STRAINER WITH 4" DIAMETER FUNNEL.			
FD-4	FLOOR DRAIN	2" MIN	2" MIN	--	--	ASME A112.21.1: LACQUERED CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, 6 INCH ROUND ADJUSTABLE NICKEL-BRONZE STRAINER, AND SEDIMENT BUCKET.			
FD-5	FLOOR DRAIN	2" MIN	2" MIN	--	--	ASME A112.21.1: LACQUERED CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, AND 6" ROUND, ADJUSTABLE NICKEL-BRONZE STRAINER WITH PROTECTIVE COVER.			
TD-1	16' TRENCH DRAIN	4"	--	--	--	POLYESTER POLYMER CONCRETE WITH 14,000 PSI COMPRESSIVE STRENGTH, FROST PROOF, SALT PROOF - B117 SALT SPRAY TEST, 8" WIDE (NOMINAL), MODULAR CHANNEL BODY WITH INTERLOCKING ENDS, RADIUSSED BOTTOM, AND 0.6-0.75% BUILT-IN SLOPE. GRATE OPENINGS: MONOLITHICALLY CAST AS PART OF TRENCH DRAIN BODY WITH 30% OPENINGS			
TD-2	48' TRENCH DRAIN	4"	--	--	--	POLYESTER POLYMER CONCRETE WITH 14,000 PSI COMPRESSIVE STRENGTH, FROST PROOF, SALT PROOF - B117 SALT SPRAY TEST, 8" WIDE (NOMINAL), MODULAR CHANNEL BODY WITH INTERLOCKING ENDS, RADIUSSED BOTTOM, AND 0.6-0.75% BUILT-IN SLOPE. GRATE OPENINGS: MONOLITHICALLY CAST AS PART OF TRENCH DRAIN BODY WITH 30% OPENINGS			
RD	ROOF DRAIN	4" STORM	--	--	--	12" DIAMETER, CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE POLY-DOME, 6" OUTLET			
OFD	OVERFLOW DRAIN	4" STORM	--	--	--	12" DIAMETER, CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE POLY-DOME WITH DECK PLATE 6" OUTLET, 2" WATER DAM.			
SI	SAND INTERCEPTOR	4"	--	--	--	SINGLE BASIN POLYETHYLENE 1/4" THICK BODY, HEAVY DUTY COATED STEEL FRAME, 1/4" HEAVY DUTY STEEL DIAMOND PLATE COVER, 4" INLET/OUTLET WITH 2" VENT, TRAP SEAL STANDARD.			
SB	SUPPLY BOX	--	--	--	1/2"	SUPPLY BOX WITH 1/4 TURN BRASS BALL VALVE.			

WATER HEATER SCHEDULE												
TAG	SERVICE LOCATION	TYPE	WATER			NATURAL GAS			THERMAL EFFICIENCY (%)	ELECTRICAL		
			FLOW (GPM)	EWT (°F)	LWT (°F)	MIN. (MBH)	MAX (MBH)	GAS PRESS. (IN. W.C.)		V	PH	HZ
HWH-1	DOMESTIC WATER 135- MECHANICAL RM	INSTANTANEOUS GAS FIRED	4	40	140	19.9	199.9	3.5 - 10.5	96	120	1	60
HWH-2	DOMESTIC WATER 135- MECHANICAL RM	INSTANTANEOUS GAS FIRED	4	40	140	19.9	199.9	3.5 - 10.5	96	120	1	60
HWH-3	DOMESTIC WATER 135- MECHANICAL RM	INSTANTANEOUS GAS FIRED	4	40	140	19.9	199.9	3.5 - 10.5	96	120	1	60

NOTES:

- PROVIDE MANUFACTURER'S WALL MOUNTED SUPPORT KIT.
- PROVIDE MANUFACTURER'S CONDENSATE NEUTRALIZER KIT.
- PROVIDE MANUFACTURER'S CONCENTRIC VENT KIT.
- PROVIDE COMMUNICATION CABLE TO ALLOW MULTIPLE UNITS TO OPERATE IN SEQUENCE.
- PROVIDE WITH CONTACTS FOR CONNECTION TO THE BUILDING AUTOMATION SYSTEM.
- FLUE AND COMBINATION AIR INTAKE PIPING SHALL BE SCHEDULE 40 PVC.

EXPANSION TANK SCHEDULE								
TAG	SERVICE LOCATION	TYPE	ASME CONSTR.	PRESSURE RATING (PSIG)	TANK CAP. (GAL)	TANK SIZE L. x DIA. (IN.)	OPER. TEMP. (°F)	REMARKS

NOTES:

- TANK SHALL BE PRE-CHARGED TO 12 PSI AND PROVIDED WITH STANDARD TIRE VALVE FOR CHARGING.

THERMOSTATIC MIXING VALVE SCHEDULE									
TAG	SERVICE LOCATION	TYPE	VALVE DATA				REMARKS		
			FLOW CAPACITY		INLET	OUTLET		TEMP. CONDITIONS (°F)	
TMV-1	LAVATORIES LOCKER ROOMS & RESTROOM	THERMOSTATIC	MIN.	MAX.			ENT. CW ENT. HW LVG. TW	NOTE 1, 2	
			--	--	1/2"	1/2"	55.0 140.0 120.0		

NOTES:




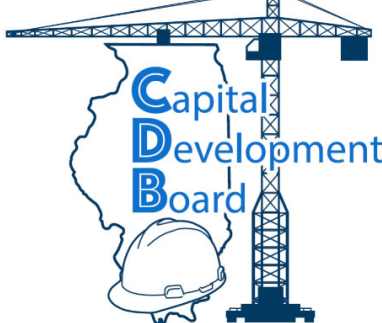
- PROVIDE WITH LOCKING TEMPERATURE REGULATOR AND WALL SUPPORT BRACKET.
- AUTOMATIC SAFETY WATER MIXING DEVICE SHALL COMPLY WITH ASSE 1070 OR 1017 IN ACCORDANCE WITH IPC SECTION 890.210.

PLUMBING PUMP SCHEDULE																
TAG	SERVICE LOCATION	PUMP DATA					ELEC. CHAR.									REMARKS
		TYPE	FLUID	OPER. TEMP. (°F)	FLOW (GPM)	T.D.H. (FT. OF H2O)	RPM	MOTOR HP	V	PH	HZ	FLA/RLA	MCA	MCOP (AMPS)		
DWP-1	HOT WATER SYSTEM 135 - MECHANICAL ROOM	IN-LINE	WATER	140.0	4.0	10.0	3250	1/40	120	1	60	0.57	--	--	NOTES 1,2	

NOTES:

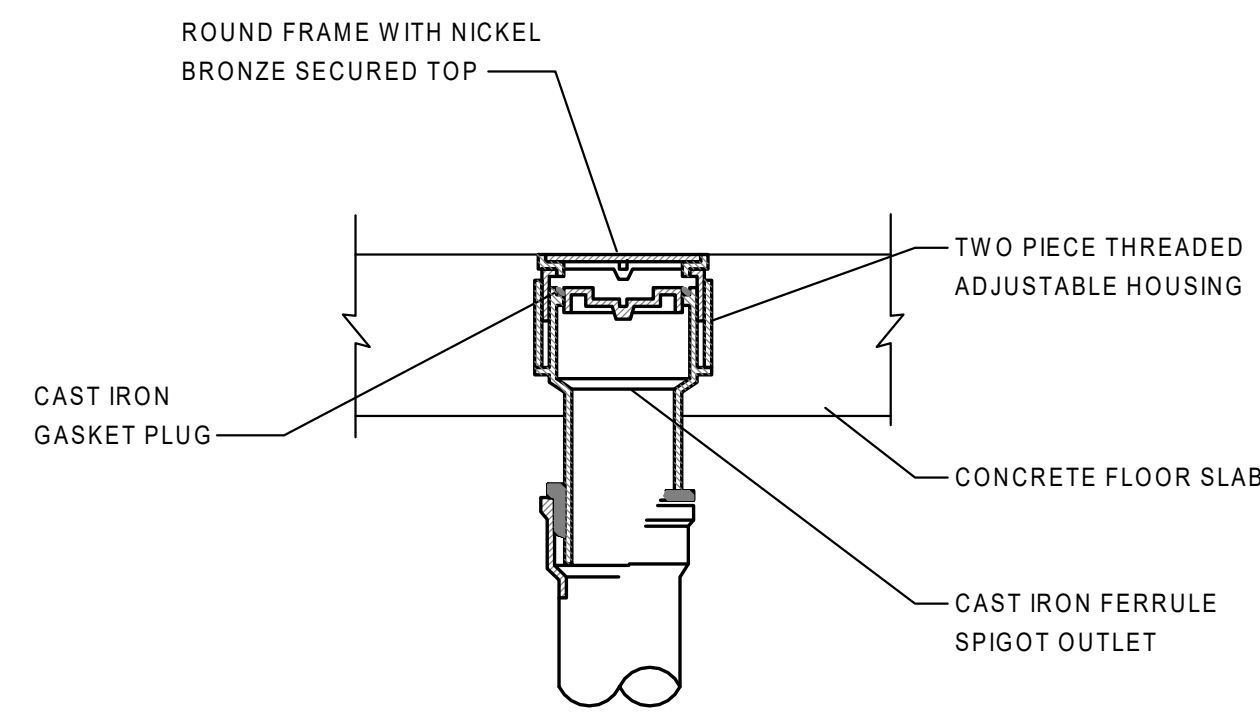
- PROVIDE CONTROL PANEL WITH CONTACTS FOR CONNECTION TO THE BUILDING AUTOMATION SYSTEM.
- PROVIDE WITH AQUASTAT AND PROGRAMMABLE TIMERS.

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REVISIONS NO. DATE REMARKS A 5/6/20 FINAL BRIDGING DOCUMENTS	DRAWN AJM	PREPARED 		 DESIGN FIRM REGISTRATION No. 184-000450 118 S. Clinton St. Suite 570 Chicago, IL 60661 PHONE : 312.648.9900 www.clarkdietz.com	 700 N Sangamon Chicago, IL 60642 312.432.4180 312.432.4184 © 2019, Muller & Muller, Ltd. DESIGN FIRM REG. #184-003047	 State of Illinois JB PRITZKER, GOVERNOR Illinois Capital Development Board	PROJECT NO. 630-128-005
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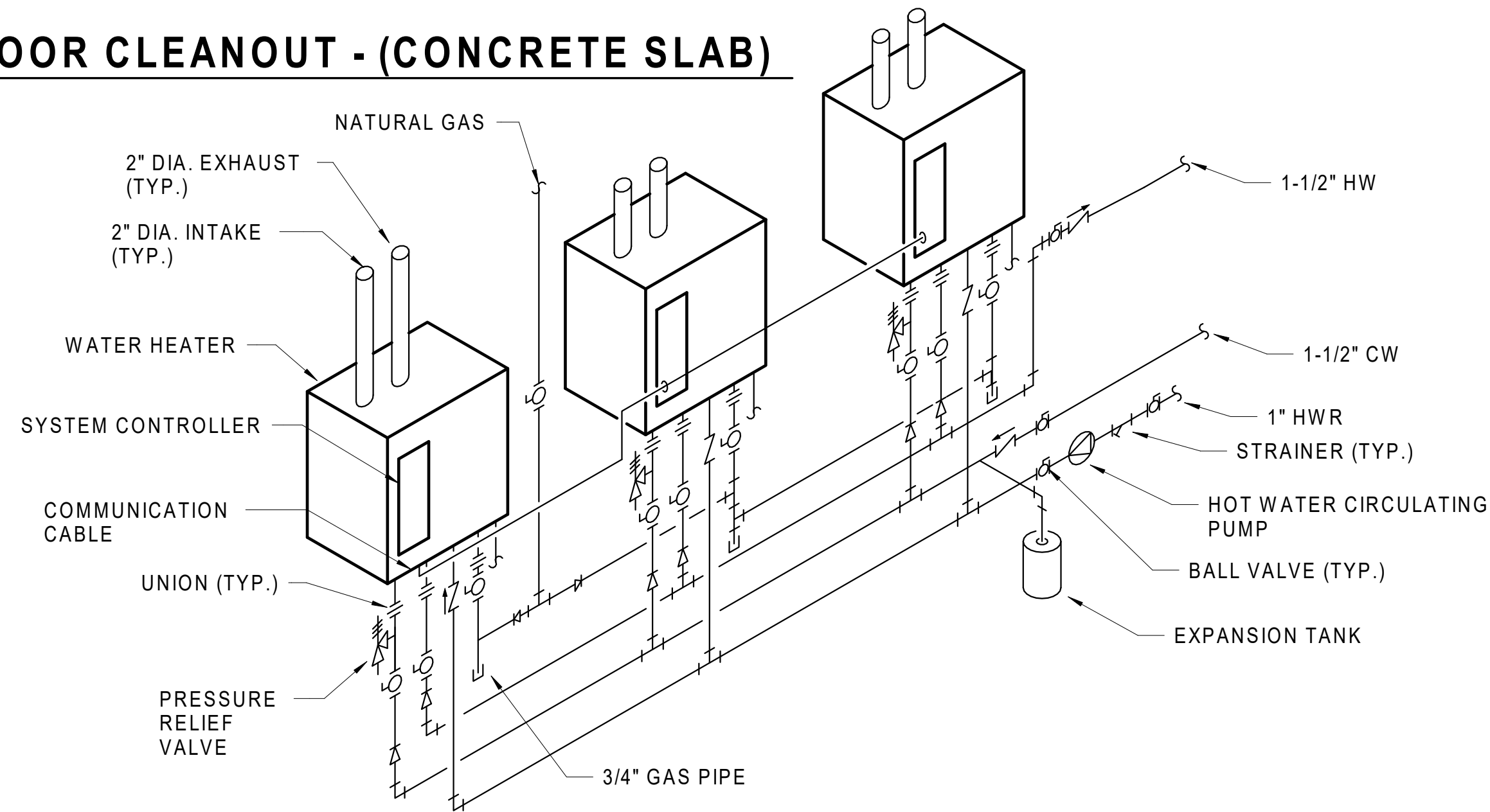
PLUMBING SCHEDULES

STEVENS ON YARD MAINTENANCE FACILITY
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FLOOR CLEANOUT - (CONCRETE SLAB)

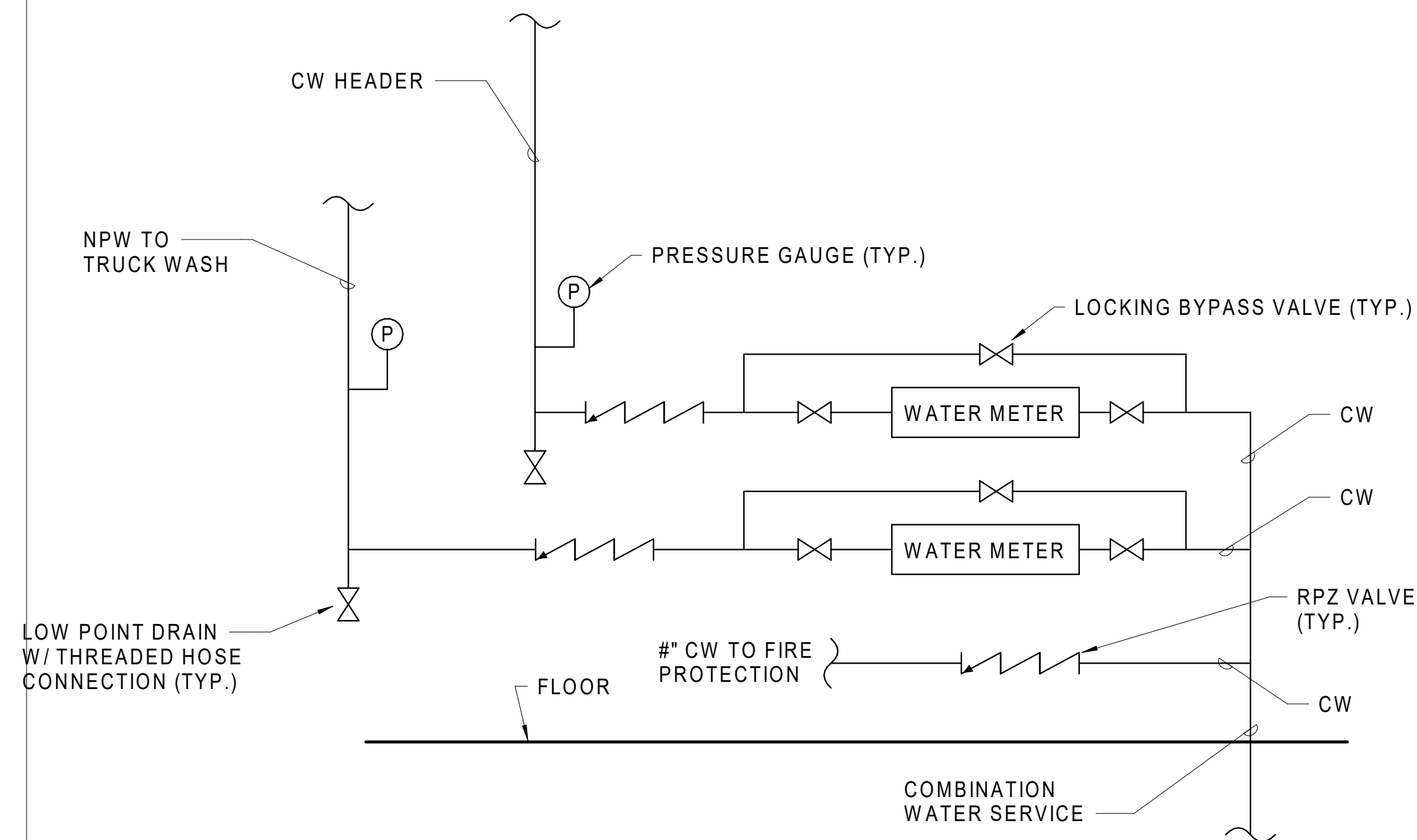
1 N.T.S.



NOTE: PROVIDE VACUUM RELIEF VALVE FOR EACH WATER HEATER TO MEET THE REQUIREMENTS OF THE CHICAGO PLUMBING CODE.

DOMESTIC GAS WATER HEATER DETAIL

4 N.T.S.



NOTE:
1. SUPPORT WATER METER, BACKFLOW PREVENTER, AND OTHER ACCESSORIES FROM WALL/FLOOR/ADJACENT STRUCTURE.

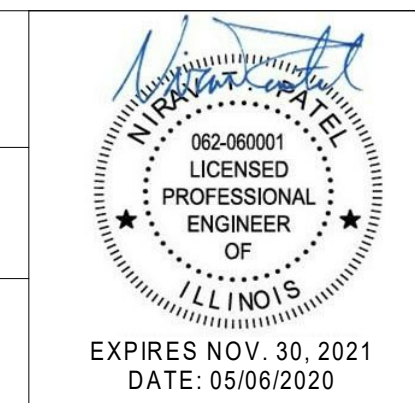
WATER CONNECTION DETAIL

6 N.T.S.

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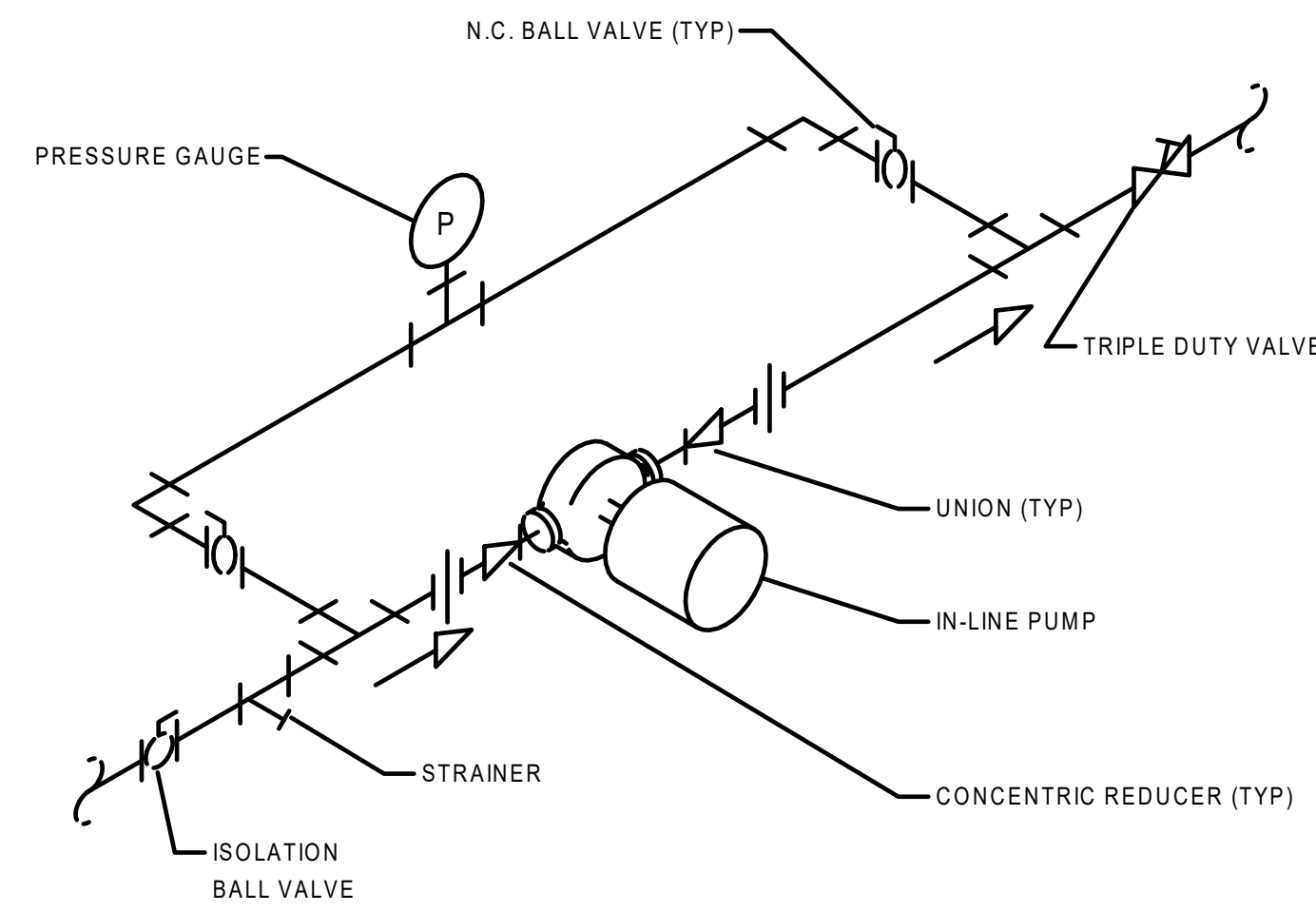
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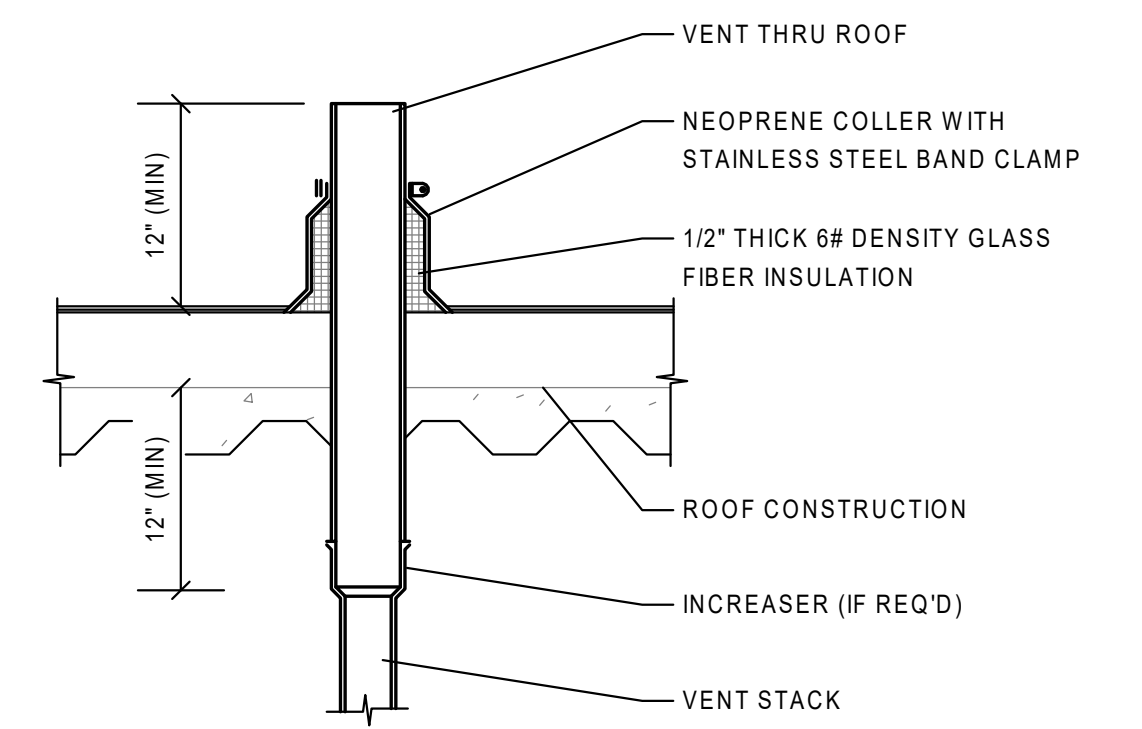
PLUMBING DETAILS
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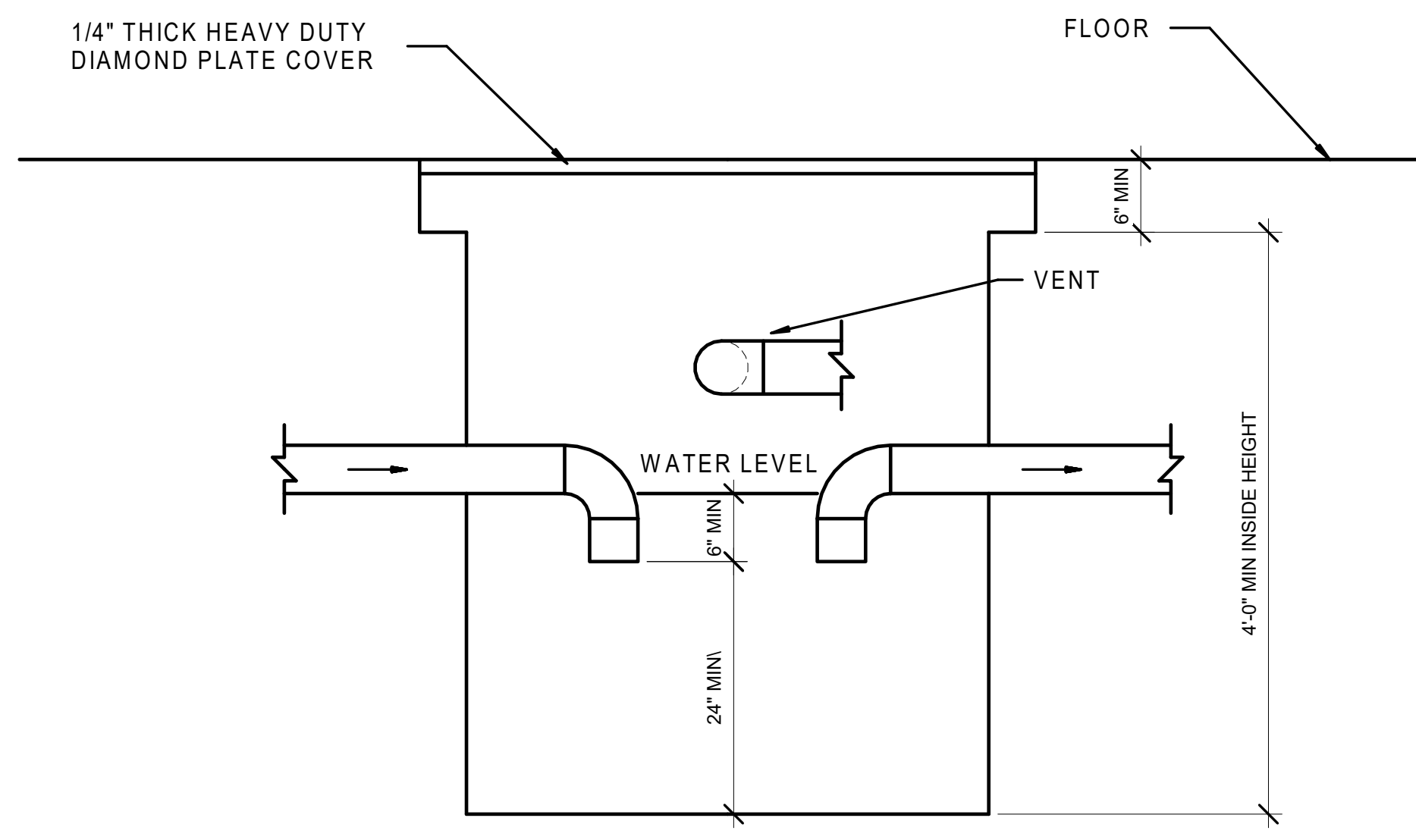
IN-LINE PUMP DETAIL

2 N.T.S.



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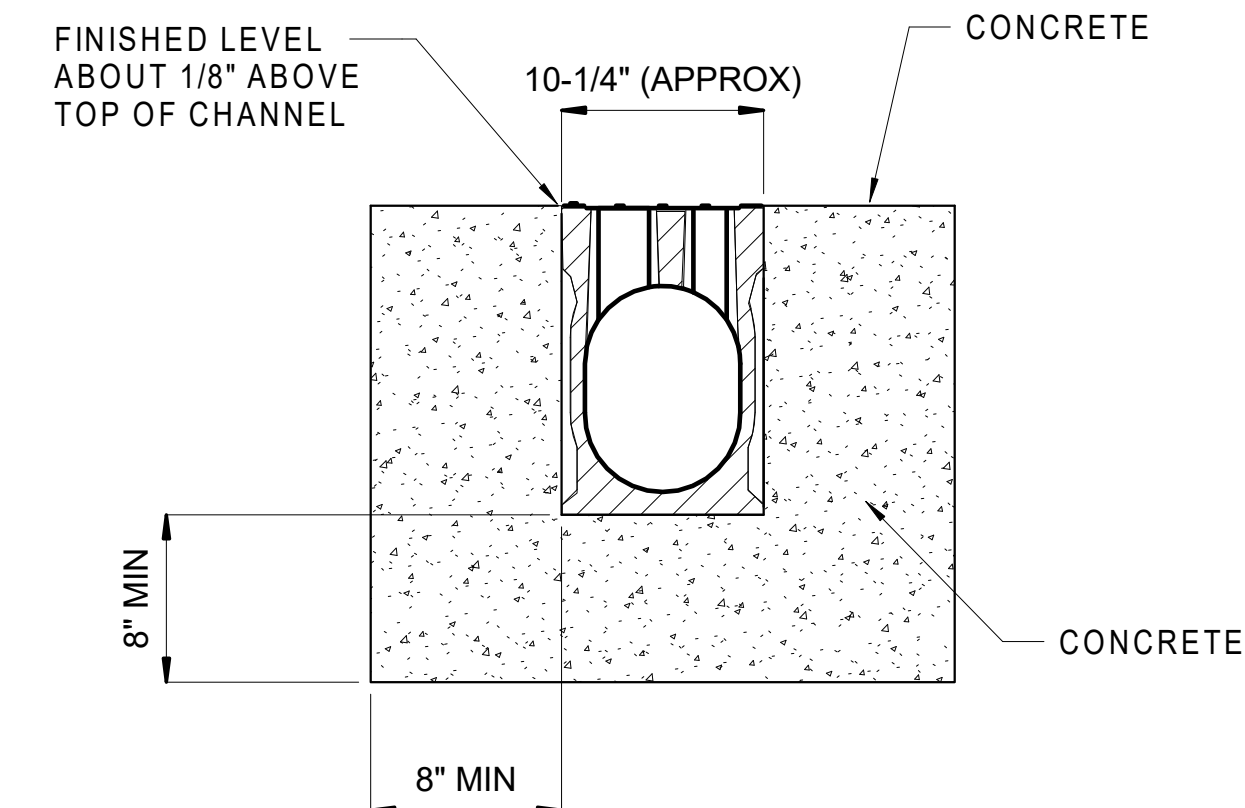
3 N.T.S.



NOTE: ALL PIPING BY PLUMBING CONTRACTOR

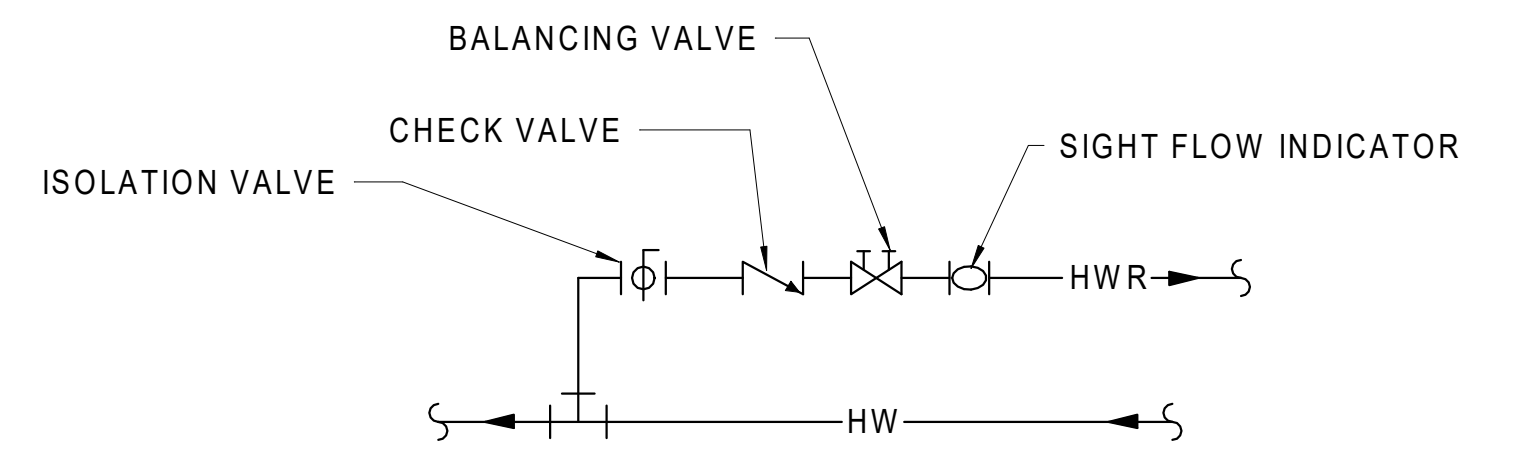
SAND INTERCEPTOR DETAIL

5 N.T.S.



TRENCH DRAIN

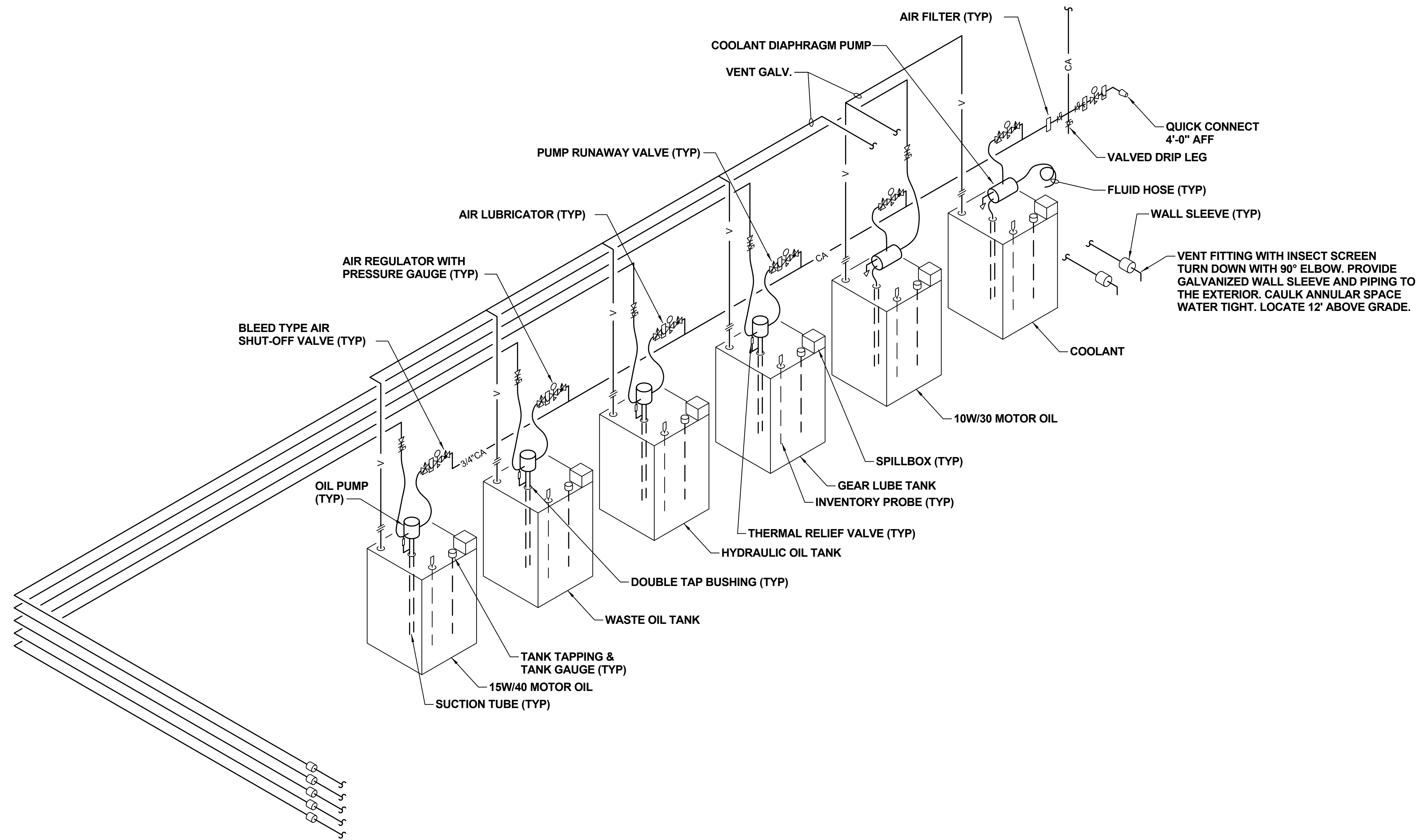
7 N.T.S.



NOTE:
1. BALANCING VALVE SHALL BE SET AT 30% OF THE TOTAL HW BRANCH FLOW RATE.

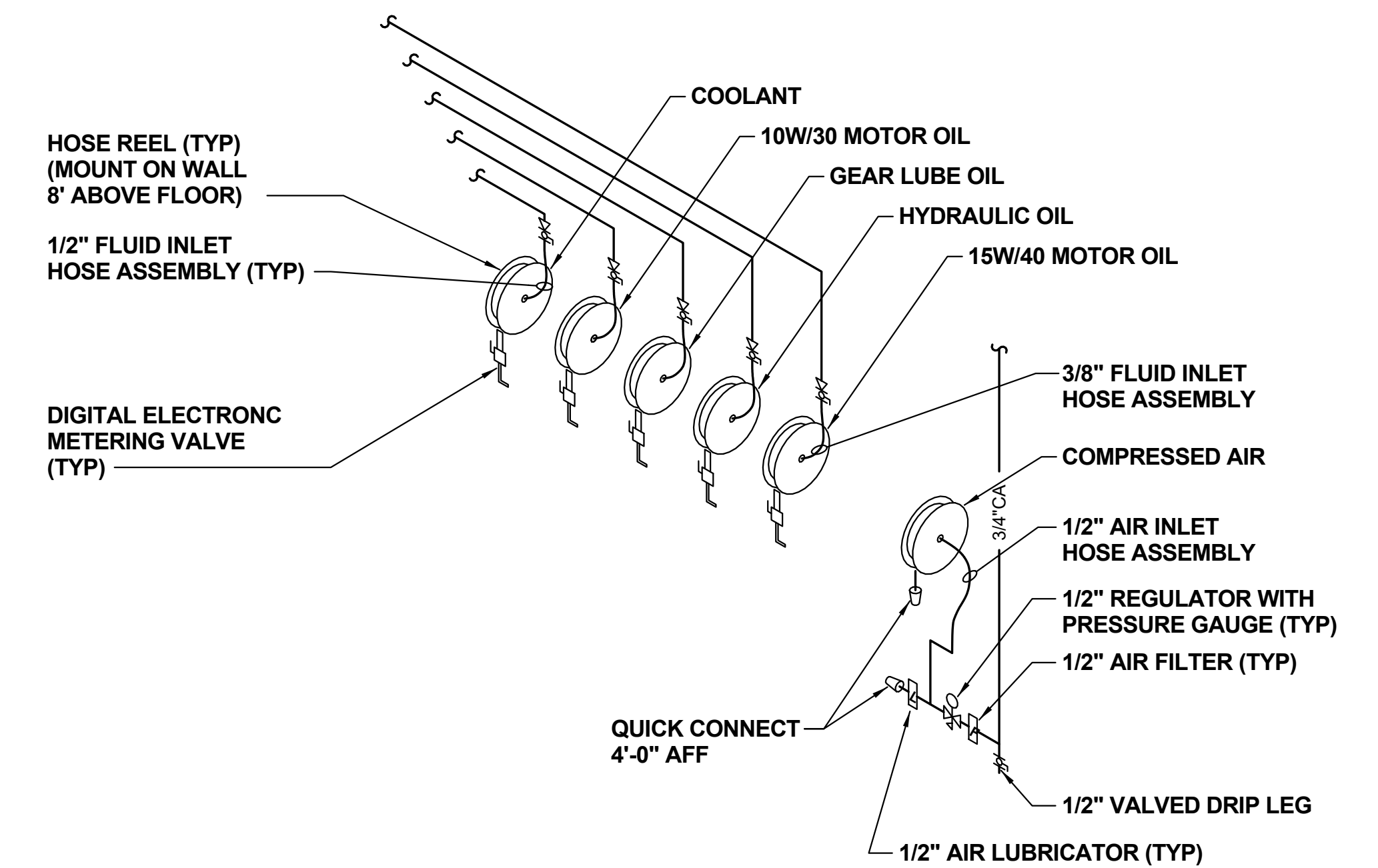
HW CIRCULATING VALVE DETAIL

8 N.T.S.



1 LUBE OIL SYSTEM DIAGRAM

N.T.S.



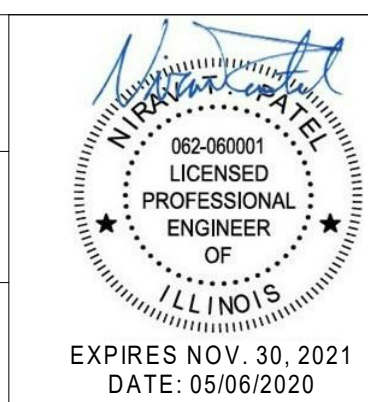
2 LUBE RACK PIPING DETAIL

N.T.S.

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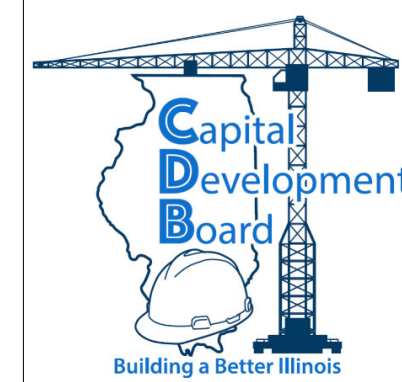
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LUBE / OIL SYSTEM DETAILS

STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
DATE 05/06/2020
SHEET NO. P6.02
OF () SHEETS

HEATING SYMBOLS

SYMBOL	DESCRIPTION
	HWS HOT WATER HEATING SUPPLY
	HWR HOT WATER HEATING RETURN
	V RELIEF VENT
	ELBOW DOWN OR AWAY
	ELBOW UP OR TOWARD
	TEE DOWN OR AWAY
	TEE UP OR TOWARD
	RISE OR DROP
	90 DEG. ELBOW
	PIPE TEE
	PIPE TAKEOFF (FROM BOTTOM OF MAIN)
	PIPE TAKEOFF (FROM TOP OF MAIN)
	45 DEG. ELBOW
	45 DEG. BRANCH
	PITCH PIPING IN DIRECTION OF ARROW
	BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	RPZ
	HOSE END VALVE
	GATE VALVE
	CONTROL VALVE - THREE WAY
	PRESSURE REDUCING VALVE
	SOLENOID
	TRIPLE DUTY VALVE
	PRESSURE RELIEF VALVE
	THERMOSTATIC VALVE
	3 - WAY VALVE
	REDUCER
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	EMPTY WELL
	PLUG
	END CAP
	PRESSURE / TEST POINT
	EXPANSION JOINT
	FLEXIBLE HOSE CONNECTION
	GAUGE - PRESSURE
	THERMOMETER
	PIPE ANCHOR
	PIPE FLANGE
	PIPE GUIDE
	STRAINER
	UNION - SCREWED
	UNION - FLANGED
	NEW EQUIPMENT
	FLOW SWITCH
	TEMPERATURE CONTROLLER
	GUAGE - TEMPERATURE
	THERMOSTATIC WELL
	THERMOSTAT

HEATING/VENTILATION ABBREVIATIONS

AC	AIR COMPRESSOR
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AS	AIR SEPARATOR
B	BOILER
BP	BOILER PUMP
BTU	BRITISH THERMAL UNITS
CA	COMPRESSED AIR
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CO	CARBON MONOXIDE
CFH	CUBIC FEET PER HOUR
CUH	CABINET UNIT HEATER
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EH	EXHAUST HOOD
ET	EXPANSION TANK
EXT. S.P.	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FPM	FEET PER MINUTE
FT	FINNED TUBE CONVECTOR
FT	FEET
G / NG	NATURAL GAS
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HRU	HEAT RECOVERY UNIT
HW	HOT WATER
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
IH	INTAKE HOOD
IN W. C.	INCHES OF WATER COLUMN
LAT	LEAVING AIR TEMPERATURE
LB(S)	POUND(S)
LWT	LEAVING WATER TEMPERATURE
MAU	MAKEUP AIR UNIT
MAX	MAXIMUM
MAX N.C.	MAXIMUM NOISE CRITERIA
MBH	1000 BTU PER HOUR
MFG	MANUFACTURER
MIN	MINIMUM
N.C.	NORMALLY CLOSED
NO	NUMBER
NO2	NITROGEN DIOXIDE
OA	OUTDOOR AIR
OPER	OPERATING
P	PUMP
PSI	POUNDS PER SQUARE INCH
RPM	REVOLUTIONS PER MINUTE
RA	RETURN/RECIRCULATION AIR
RPZ	REDUCED PRESSURE ZONE
RTH	RADIANT TUBE HEATER
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
TEMP	TEMPERATURE
TYP	TYPICAL
UH	UNIT HEATER
V / VAV	VARIABLE AIR VOLUME UNIT
VD	VOLUME DAMPER
VOL	VOLUME
WPD	WATER PRESSURE DROP

GENERAL HEATING/VENTILATION NOTES

- DUCTWORK AND PIPING IS SHOWN IN SCHEMATIC FORM ONLY. OFFSETS AND CHANGES IN ELEVATION ARE NOT NECESSARILY SHOWN. ROUTE DUCTWORK AND PIPING IN AN ORDERLY MANNER AS REQUIRED FOR CLEARANCE WITH STRUCTURAL CONDITIONS. COORDINATE LOCATION OF DUCTWORK AND PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. WHERE POSSIBLE RACK PIPING HORIZONTALLY AND VERTICALLY.
- COORDINATE LOCATIONS AND SIZES OF DUCT CONNECTIONS AND PIPING CONNECTIONS TO EQUIPMENT BEING PROVIDED BY OTHERS.
- PROVIDE AND INSTALL MANUAL BALANCING DAMPERS IN ALL BRANCH DUCTWORK AND AT EACH AIR INLET AND OUTLET.
- LOCATE ALL MANUAL BALANCING DAMPERS IN AN ACCESSIBLE LOCATION. WHERE DAMPERS ARE NOT ACCESSIBLE PROVIDE A MINIMUM 18X18 ACCESS DOOR.
- UNLESS OTHERWISE NOTED, CONCEAL ALL DUCTWORK AND PIPING ABOVE CEILINGS, IN WALLS, OR INSIDE CHASES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SUPPORTING SYSTEMS AND DEVICES FOR ALL DUCTWORK, EQUIPMENT, PIPING AND ACCESSORIES.
- PROVIDE AND INSTALL SLEEVES FOR ALL DUCTWORK AND PIPING PASSING THROUGH WALLS AND FLOORS.
- FOR DUCT CONNECTIONS TO TERMINAL DEVICES, FANS, AND OTHER EQUIPMENT SEE MECHANICAL DETAILS.
- COORDINATE LOCATIONS OF ALL DIFFUSERS, GRILLES, AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- LOCATE AND INSTALL ALL MECHANICAL EQUIPMENT TO PROVIDE MANUFACTURER'S MINIMUM SERVICE CLEARANCES.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE LOCATED 10'-0" (MINIMUM) FROM THE ROOF EDGE AS MEASURED FROM THE EDGE OF THE EQUIPMENT CLOSEST TO THE ROOF EDGE. IF EQUIPMENT CANNOT BE LOCATED AT LEAST 10'-0" FROM ROOF EDGE, CONTRACTOR SHALL NOTIFY ENGINEER AS SOON AS POSSIBLE AND BEFORE START OF WORK.

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

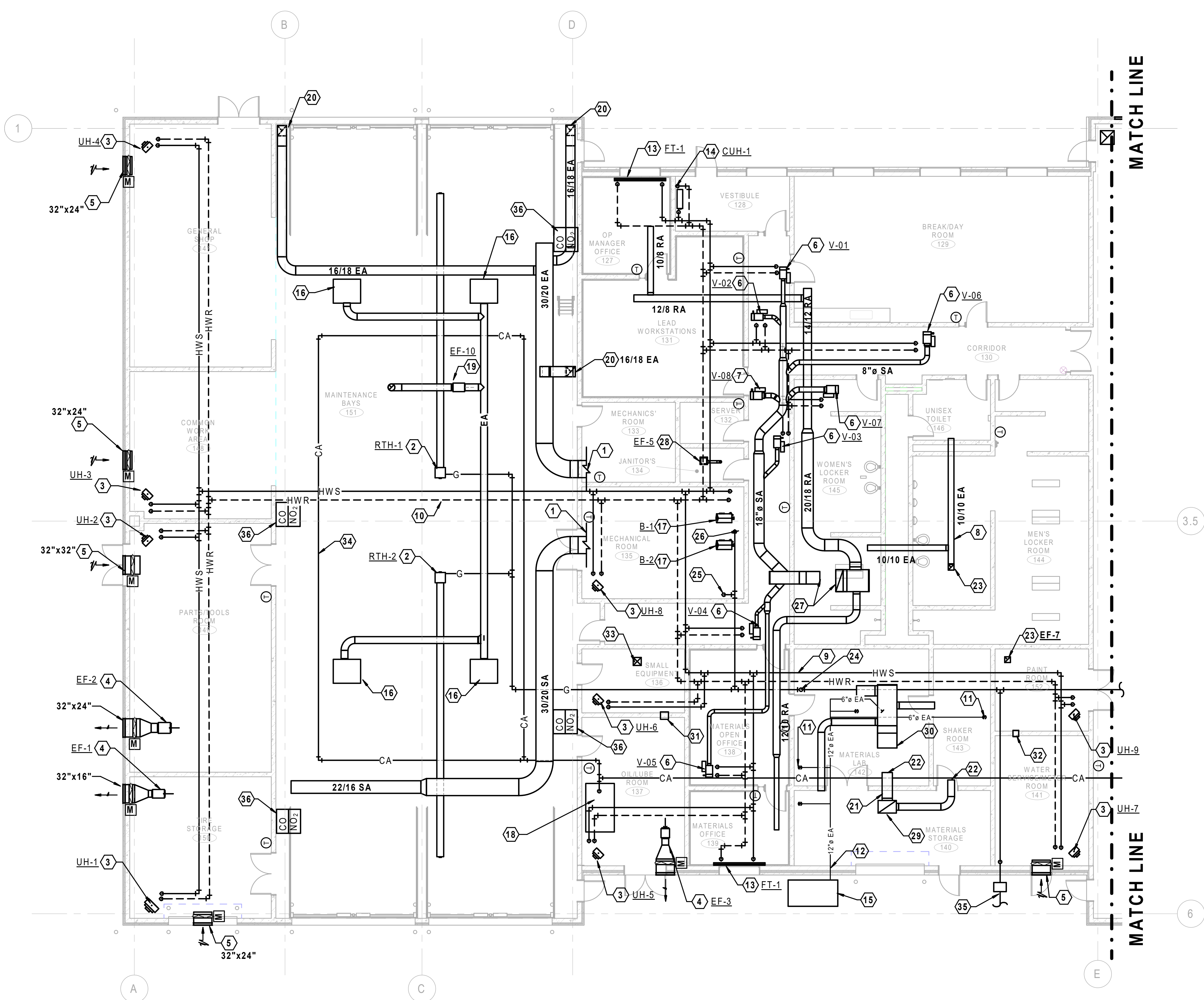
REVISIONS			DRAWN	PREPARED					State of Illinois JB PRITZKER, GOVERNOR Illinois Capital Development Board	HVAC NOTES AND SYMBOLS		PROJECT NO.	
NO.	DATE	REMARKS	AJM							630-128-005			
			TRACED	APPROVED							DATE		
			CHECKED	APPROVED							05/06/2020		
A	5/6/20	FINAL BRIDGING DOCUMENTS	NTP								SHEET NO.	H0.01	
											MCCOOK, COOK COUNTY, ILLINOIS 60525		OF () SHEETS

NOTES (THIS SHEET)

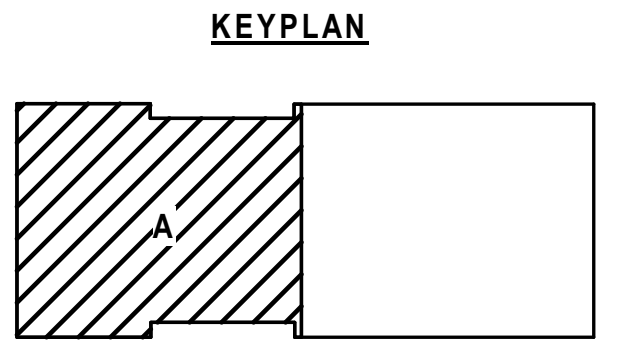
- REFER TO SHEET H0.01 FOR MECHANICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- SUPPLY DUCTWORK SHOWN FOR HRU-1, HRU-2, MAU-1, AND MAU-2 IS SHOWN WITHOUT DIFFUSERS. CONTRACTOR SHALL PROVIDE SUPPLY AIR DIFFUSERS IN THESE AREAS.
- CONTRACTOR SHALL PROVIDE DUCTWORK AND CEILING SUPPLY DIFFUSERS DOWNSTREAM OF VAV UNITS IN OFFICE AREA SERVED BY RTU-1. IF FLEXIBLE DUCTWORK IS USED, EACH SEGMENT SHALL BE LIMITED TO 5' IN LENGTH.
- CONTRACTOR SHALL PROVIDE CEILING RETURN GRILLES AND DUCTED RETURN IN OFFICE AREA SERVED BY RTU-1.

KEYNOTES (THIS SHEET)

- DUCT THROUGH WALL TO OUTDOORS ABOVE OFFICE ROOF. SEE HVAC ROOF PLAN FOR CONTINUATION.
- GAS-FIRED RADIANT TUBE HEATER SUPPORTED FROM ABOVE. PROVIDE COMBUSTION AIR AND EXHAUST AIR DUCTS THROUGH ROOF PER MANUFACTURER'S INSTRUCTIONS.
- PROVIDE HOT WATER UNIT HEATER. SEE SCHEDULE AND DETAIL. MAKE FINAL HWS & HWR CONNECTION.
- INLINE EXHAUST FAN, MOTORIZED DAMPER, AND EXHAUST LOUVER. COORDINATE EXACT ELEVATION WITH ARCHITECT (TYP).
- INTAKE LOUVER AND MOTORIZED DAMPER HIGH ON WALL. COORDINATE EXACT ELEVATION WITH ARCHITECT (TYP).
- VARIABLE AIR VOLUME BOX WITH REHEAT COIL ABOVE CEILING. SIZE AND ROUTE LOW PRESSURE DUCTWORK TO SUPPLY DIFFUSERS. COORDINATE SUPPLY DIFFUSER LOCATION WITH ARCHITECTURAL CEILING PLAN.
- COOLING ONLY VARIABLE AIR VOLUME BOX ABOVE CEILING. ROUTE DUCTWORK TO SERVER ROOM.
- EA DUCTWORK CONCEALED ABOVE CEILING.
- HWS & HWR CONCEALED ABOVE CEILING.
- HWS & HWR EXPOSED AT CEILING.
- EA DUCTWORK DOWN TO DUST COLLECTION FUME ARM. COORDINATE EXACT LOCATION WITH FINAL TESTING EQUIPMENT LOCATION (TYPICAL).
- EA DUCTWORK TO DUST COLLECTOR THROUGH EXTERIOR WALL TO DUST COLLECTOR.
- PROVIDE HW FIN TUBE HEATER IN OFFICE.
- PROVIDE HW CABINET UNIT HEATER IN VESTIBULE.
- PROVIDE DUST COLLECTION SYSTEM, INCLUDING FAN, FILTERS, AND DUST COLLECTION BIN. FAN SHALL BE CAPABLE OF 7 IN W.C. EXT. S.P. AT 3000 CFM.
- VEHICLE EXHAUST HOSE REEL DROP. MAKE CONNECTION TO EA DUCTWORK.
- GAS-FIRED CONDENSING BOILER. ROUTE COMBUSTION AIR INTAKE AND EXHAUST THROUGH ROOF.
- AIR COMPRESSOR. MOUNT ON 4" HOUSEKEEPING PAD.
- VEHICLE EXHAUST FAN SUSPENDED HIGH AT LEVEL OF HOSE REELS. ROUTE EXHAUST DISCHARGE UP THROUGH ROOF TO EXHAUST HOOD.
- EXHAUST AIR DUCTWORK DOWN TO 12" AFF (MAX). PROVIDE EXHAUST GRILLE ON DUCT (TYP).
- PROVIDE DUCT MOUNTED RETURN GRILLE IN RETURN DUCT INSIDE 140-STORAGE.
- PROVIDE LAY-IN RETURN GRILLES AS REQUIRED IN 142-MATERIALS LAB AND 143-SHAKER ROOM, AND CONNECT INTO MAU-2 RETURN DUCTWORK. COORDINATE WITH ARCHITECTURAL CEILING PLAN AND OTHER TRADES.
- EA DUCT UP TO ROOF-MOUNTED EXHAUST FAN.
- NATURAL GAS PIPING UP THROUGH ROOF.
- NATURAL GAS PIPING DOWN TO DOMESTIC WATER HEATERS.
- NATURAL GAS PIPING DOWN TO BOILERS.
- SUPPLY AND RETURN DUCTWORK UP TO RTU-1 ON ROOF.
- CEILING MOUNTED EXHAUST FAN. DUCT THROUGH ROOF.
- RETURN/RECIRCULATION DUCTWORK UP TO MAKEUP AIR UNIT MAU-2. DROP DUCTWORK FROM UNIT INTO STORAGE ROOM SAME SIZE AS MAU RETURN/RECIRCULATION INLET.
- SUPPLY DUCTWORK UP TO MAKEUP AIR UNIT MAU-2.
- 14"x14" TRANSFER AIR DUCT MOUNTED 10' ABOVE FINISHED FLOOR. PROVIDE 1/2" HARDWARE CLOTH AT DUCT OPENINGS.
- 10"x10" TRANSFER AIR DUCT MOUNTED 10' ABOVE FINISHED FLOOR. PROVIDE 1/2" HARDWARE CLOTH AT DUCT OPENINGS.
- 14"x14" OUTDOOR AIR DUCT UP TO ROOF-MOUNTED INTAKE HOOD.
- COMPRESSED AIR (90 PSI). COORDINATE NUMBER AND LOCATION OF DROPS. SEE DETAIL.
- UNDERGROUND GAS SERVICE TO NATURAL GAS REGULAR AND SHUTOFF COCK AT 18" ABOVE GRADE.
- CARBON MONOXIDE AND NITROGEN DIOXIDE SENSORS. MOUNT SENSORS 4'-8" AFF. INTERCONNECT SENSORS WITH BUILDING AUTOMATION SYSTEM.



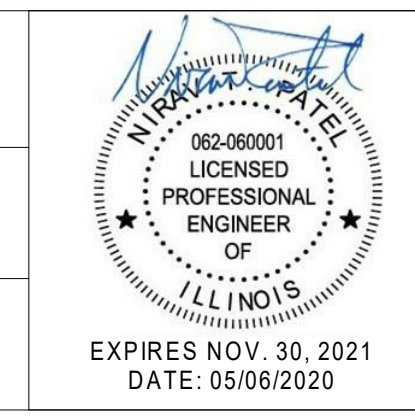
HVAC PLAN - AREA A
 SCALE 1/8" = 1'
 NORTH ARROW



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REVISIONS		
NO.	DATE	REMARKS
A	5/6/20	FINAL BRIDGING DOCUMENTS

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AJM	
TRACED	APPROVED
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 Illinois Capital Development Board

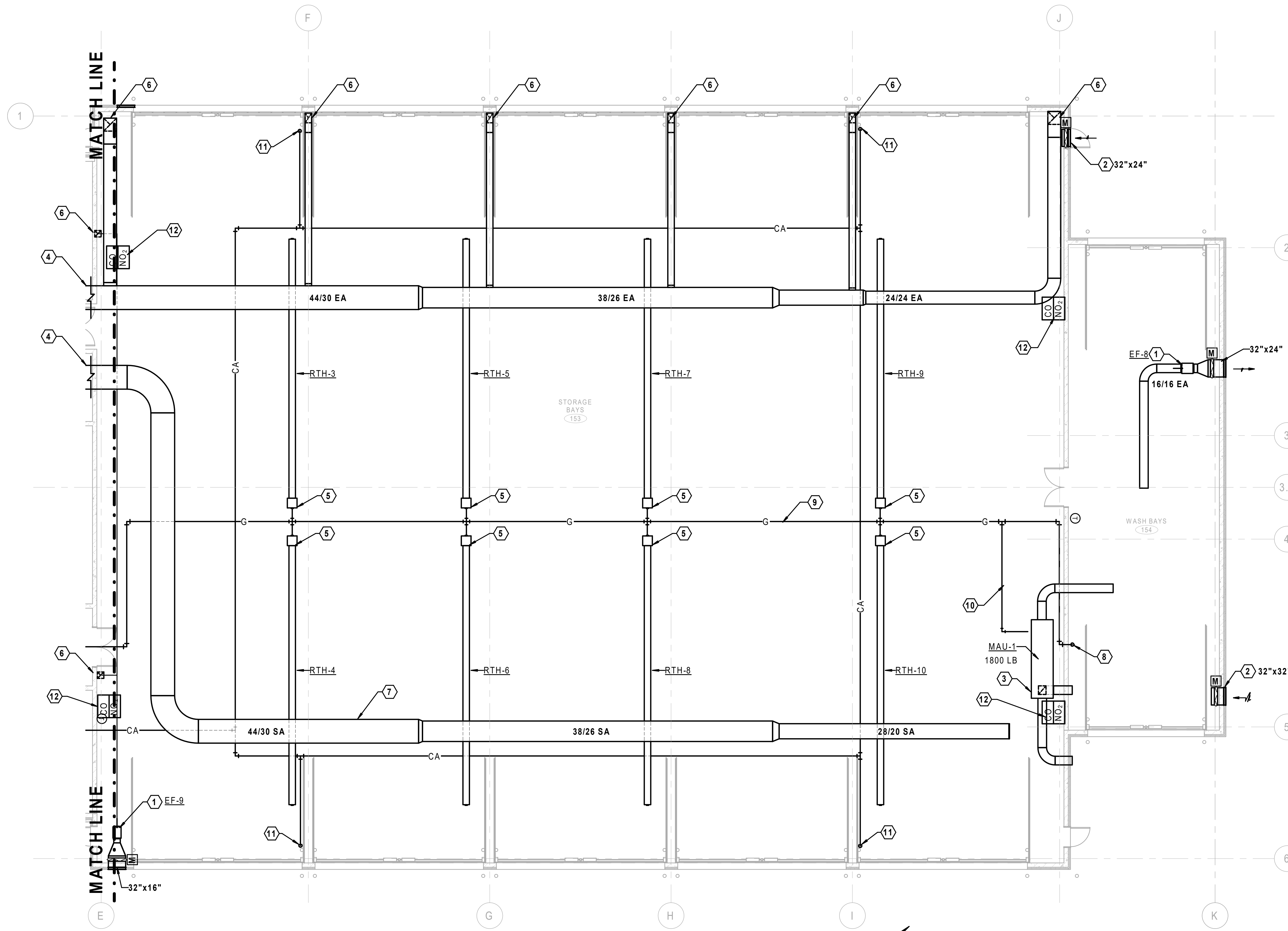
HVAC PLAN - AREA A	
STEVENS ON YARD MAINTENANCE FACILITY BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION) ILLINOIS DEPARTMENT OF TRANSPORTATION MCCOOK, COOK COUNTY, ILLINOIS 60525	
PROJECT NO. 630-128-005	DATE 05/06/2020
SHEET NO. H2.10	OF () SHEETS

NOTES (THIS SHEET)

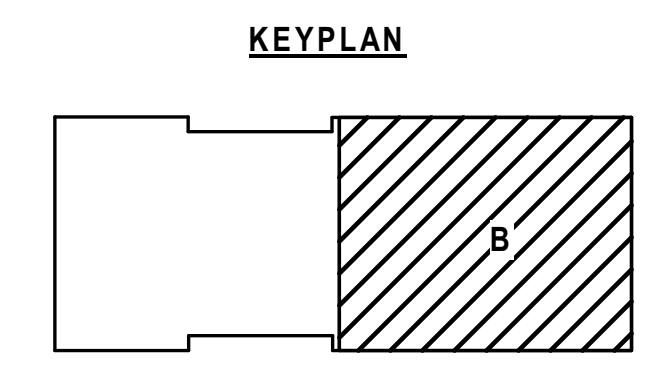
- REFER TO SHEET H0.01 FOR MECHANICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- SUPPLY DUCTWORK SHOWN FOR HRU-1, HRU-2, MAU-1, AND MAU-2 IS SHOWN WITHOUT DIFFUSERS. CONTRACTOR SHALL PROVIDE SUPPLY AIR DIFFUSERS IN THESE AREAS.
- DUCTWORK IN THE WASH BAY IS SHOWN WITHOUT DIFFUSERS AND GRILLES. CONTRACTOR SHALL PROVIDE DIFFUSERS AND GRILLES IN THIS AREA.

KEYNOTES (THIS SHEET)

- INLINE EXHAUST FAN, MOTORIZED DAMPER, AND EXHAUST LOUVER. COORDINATE EXACT ELEVATION WITH ARCHITECT (TYP).
- INTAKE LOUVER AND MOTORIZED DAMPER HIGH ON WALL. COORDINATE EXACT ELEVATION WITH ARCHITECT (TYP).
- MAKEUP AIR UNIT SUPPORTED FROM WALL OR OVERHEAD STRUCTURE. DUCT THROUGH WALL TO OUTDOORS ABOVE OFFICE ROOF. SEE HVAC ROOF PLAN FOR CONTINUATION.
- GAS-FIRED RADIANT TUBE HEATER SUPPORTED FROM ABOVE. PROVIDE COMBUSTION AIR AND EXHAUST AIR DUCTS THROUGH ROOF PER MANUFACTURER'S INSTRUCTIONS.
- EXHAUST AIR DUCTWORK DOWN TO 12" AFF (MAX). PROVIDE EXHAUST GRILLE ON DUCT (TYP).
- PROVIDE DUCT MOUNTED GRILLES IN SUPPLY DUCTWORK.
- NG PIPING TO PRESSURE WASHER.
- NATURAL GAS PIPING EXPOSED AT CEILING.
- NG PIPING TO MAU-1.
- COMPRESSED AIR (90 PSI). COORDINATE NUMBER AND LOCATION OF DROPS. SEE DETAIL.
- CARBON MONOXIDE AND NITROGEN DIOXIDE SENSORS. MOUNT SENSORS 4'-8" AFF. INTERCONNECT SENSORS WITH BUILDING AUTOMATION SYSTEM.



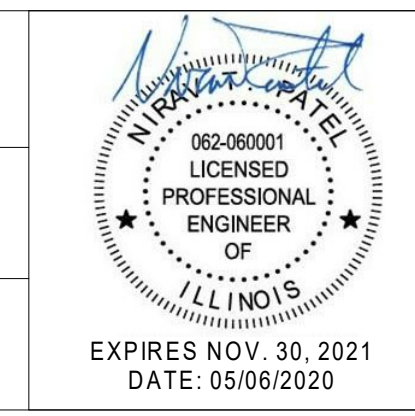
HVAC PLAN - AREA B
 SCALE 1/8" = 1'
 0' 2' 4' 8' 16'



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HVAC PLAN - AREA B
 STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

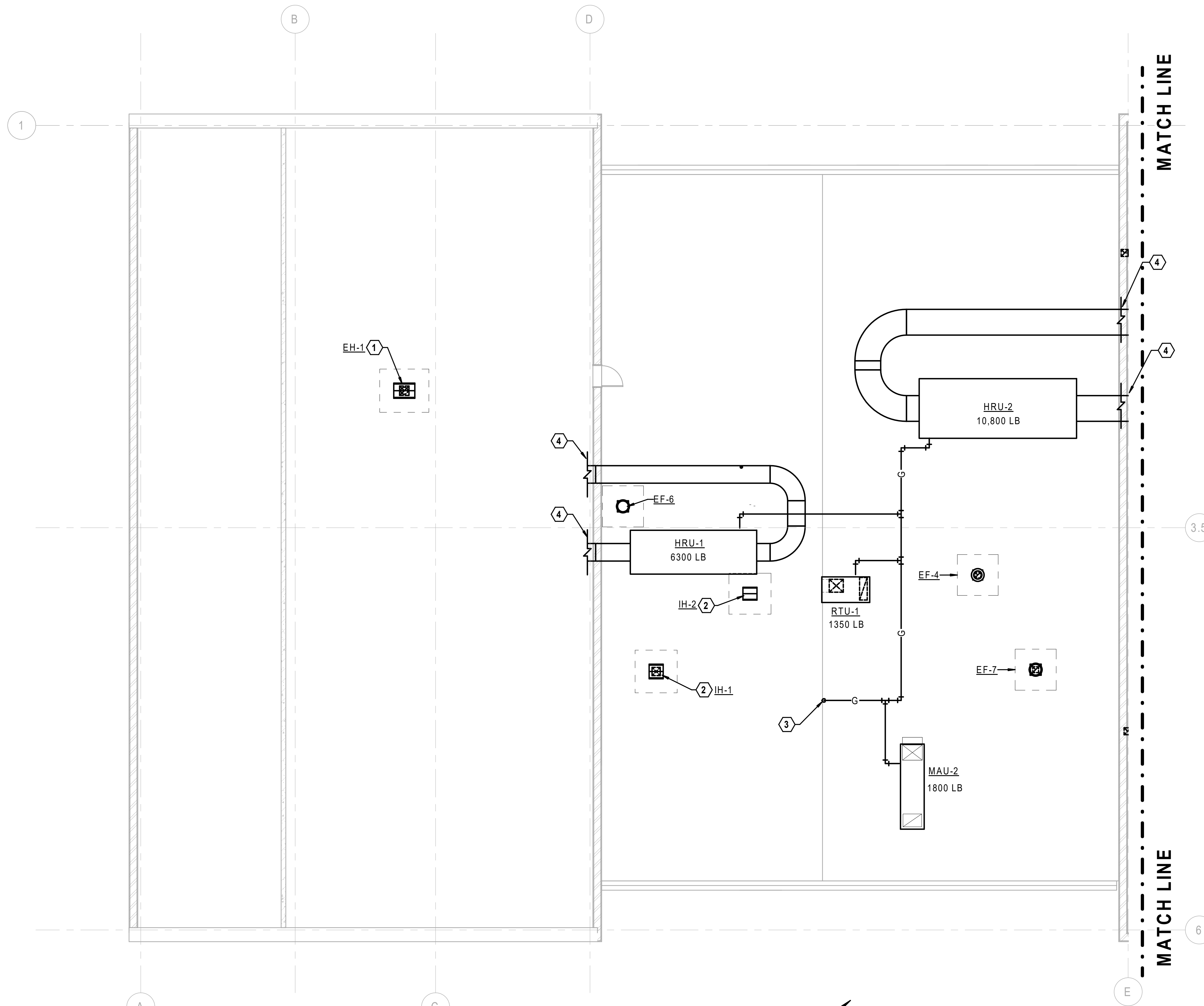
PROJECT NO.
630-128-005
 DATE
05/06/2020
 SHEET NO.
H2.11
 OF () SHEETS

NOTES (THIS SHEET)

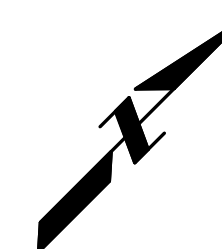
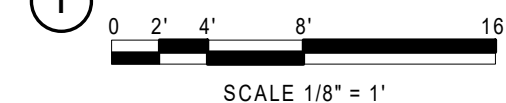
1. REFER TO SHEET H0.01 FOR MECHANICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. MAINTAIN 10'-0" (MIN) SEPARATION BETWEEN EXHAUST FANS AND AIR INTAKES.

KEYNOTES (THIS SHEET)

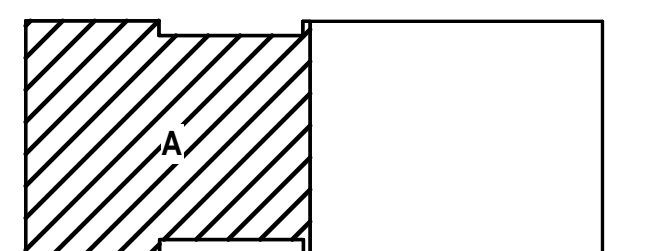
1. PROVIDE EXHAUST HOOD SIZED FOR 700 FT/MIN (MAX) THROAT VELOCITY.
2. PROVIDE INTAKE HOOD SIZED FOR 500 FT/MIN (MAX) THROAT VELOCITY.
3. NATURAL GAS PIPING DOWN TO FLOOR BELOW.
4. DUCTWORK THROUGH WALL INTO ADJACENT AREA. SEE FIRST FLOOR PLANS FOR CONTINUATION.



1 HVAC PLAN - ROOF AREA A



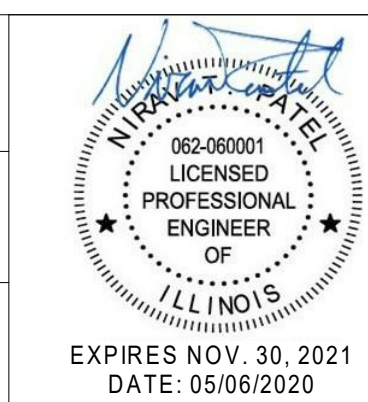
KEYPLAN



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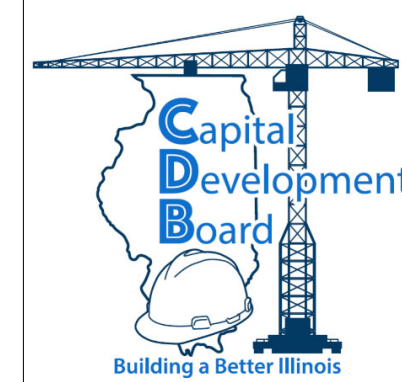
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HVAC PLAN - ROOF AREA A

STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
DATE 05/06/2020
SHEET NO. H2.30
OF () SHEETS

EXHAUST FAN SCHEDULE

MARK	SERVICE	LOCATION	AIR VOL. (CFM)	FAN EXT. S.P. (IN. W.C.)	FAN SPEED (RPM)	MOTOR HP	DRIVE	ELECTRICAL DATA			MAX SONES	NOTES
								V	PH	HZ		
EF-1	150 - TIRE STORAGE	150 - TIRE STORAGE	900	0.20	1643	1/4	DIRECT	115	1	60		
EF-2	149 - PARTS TOOLS ROOM	149 - PARTS TOOLS ROOM	1750	0.20	1648	1/2	DIRECT	208	1	60		
EF-3	136, 137	137 - OIL/LUB ROOM	600	0.20	1552	1/10	DIRECT	115	1	60		
EF-4	144, 145, 146	ROOF	825	0.25	1550	1/8	DIRECT	115	1	60		
EF-5	134 - JANITOR'S	134 - JANITOR'S	75	0.25	831		DIRECT	115	1	60		
EF-6	135 - MECHANICAL ROOM	ROOF	500	0.20	1300	1/10	DIRECT	115	1	60		
EF-7	141, 152	ROOF	550	0.25	1355	1/10	DIRECT	115	1	60		
EF-8	154 - WASH BAY	154 - WASH BAY	1400	0.20	1302	1/2	DIRECT	208	3	60		
EF-9	153 - STORAGE BAYS	153 - STORAGE BAYS	900	0.20	1643	1/4	DIRECT	115	1	60		
EF-10	VEHICLE EXHAUST	151 - MAINTENANCE BAYS	1000	1.50	3450	3/4	DIRECT	208	3	60		

VAV SCHEDULE

MARK	SERVICE	LOCATION	MAXIMUM CFM	MINIMUM CFM	REHEAT CFM	INLET SIZE	MAX N.C.	STATIC PRESSURE	EAT (F)	LAT (F)	WPD	EWT (F)	LWT (F)	GPM	MBH	REMARKS
V-01	127, 128 - OP MANAGER	130 - CORRIDOR	250	75	75	6"			55	115		140	120			
V-02	131 - LEAD WORKSTATIONS	130 - CORRIDOR	250	75	75	6"			55	115		140	120			
V-03	130 - CORRIDOR	130 - CORRIDOR	300	100	100	6"			55	115		140	120			
V-04	138 - MATERIALS OPEN OFFICE	130 - CORRIDOR	200	60	60	6"			55	115		140	120			
V-05	139 - MATERIALS OPEN OFFICE	138 - MATERIALS OPEN OFFICE	150	50	50	6"			55	115		140	120			
V-06	129 - BREAK/DAY ROOM	130 - CORRIDOR	560	170	170	10"			55	115		140	120			
V-07	144, 145, 146 - LOCKER ROOMS	130 - CORRIDOR	825	825	825	10"			55	95		140	120			
V-08	132 - SERVER	130 - CORRIDOR	570	50	0	10"			55	95		140	120			

MAKEUP AIR UNIT SCHEDULE - GAS FIRED

MARK	SERVICE	LOCATION	FAN DATA							HEATING DATA					ELECTRICAL DATA					REMARKS
			ARRANGEMENT	AIR VOL. (CFM)	O.A. VOL. (CFM)	EXT. S.P. (IN. W.C.)	FAN SPEED (RPM)	MOTOR HP	DRIVE	EAT (°F)	LAT (°F)	INPUT (CFH)	OUTPUT (MBH)	GAS PRESS. (IN. W.C.)	V	PH	HZ	MCA	MOCP	
MAU-1	154-WASH BAY	153-STORAGE BAY	RECIRCULATION	1350	1350	0.75	1587	0.75	DIRECT	-10	72	150	120	6.00	460	3	60	2	15	

MAKEUP AIR UNIT SCHEDULE - GAS FIRED WITH DX COOLING

MARK	SERVICE	LOCATION	FAN DATA							HEATING DATA					DX COIL DATA						ELECTRICAL DATA					REMARKS	
			ARRANGEMENT	AIR VOL. (CFM)	O.A. VOL. (CFM)	EXT. S.P. (IN. W.C.)	FAN SPEED (RPM)	MOTOR HP	DRIVE	EAT (°F)	LAT (°F)	INPUT (CFH)	OUTPUT (MBH)	GAS PRESS. (IN. W.C.)	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	LAT (°F WB)	SENSIBLE CAP. (MBH)	TOTAL CAP. (MBH)	V	PH	HZ	FLA	MCA		MOCP
MAU-2	LAB AREA	ROOF	RECIRCULATION	2950	2950	0.75	0	0		-10	81	375	300.0	6.00	95	75	55	55	130.0	207.0	460	3	60	0	0	0	

ROOFTOP UNIT SCHEDULE

MARK	SERVICE	LOCATION	MIN. O.A. (CFM)	FAN DATA			HEATING DATA					DX COIL DATA				ELECTRICAL DATA				
				AIR VOL. (CFM)	EXT. S.P. (IN. W.C.)	EAT (°F)	LAT (°F)	INPUT (CFH)	OUTPUT (MBH)	GAS PRESS. (IN. W.C.)	EAT (°F)		LAT (°F)		SENSIBLE CAP. (MBH)	TOTAL CAP. (MBH)	V	PH	HZ	
											DB	WB	DB	WB						
RTU-1	OFFICE AREA	ROOF	900	3000	1.00	-10	55	63	50.0	7.00	84	69	55	54	95.0	132.0	460	3	60	

CABINET UNIT HEATER SCHEDULE

MARK	LOCATION	AIR PATTERN	FAN DATA			HEATING COIL DATA						ELECTRICAL CHARACTERISTICS				MOUNTING HEIGHT	REMARKS	
			CFM	FPM	MOTOR HP	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM	WPD (IN. W.C.)	MBH	V	PH	HZ			FLA
CUH-1	VESTIBULE	VERTICAL	330	600	0.03	60	95	140	120	1.6	0.3	9.3	120	1	60	1	0' - 0"	

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HVAC SCHEDULES

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UNIT HEATER SCHEDULE - HOT WATER

TAG	LOCATION	AIRFLOW PATTERN	FAN DATA			HEATING COIL							ELECTRICAL DATA			REMARKS
			AIR VOL. (CFM)	THROW (FT.)	MOTOR HP	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	FLOW (GPM)	W.P.D. (FT.)	CAPACITY (MBH)	V	PH	HZ	
UH-1	150 - TIRE STORAGE		0	0' - 0"	0	60	95	140	120	0	0.00	30.0	120	1	60	
UH-2	149 - PARTS/TOOLS ROOM		0	0' - 0"	0	60	95	140	120	0	0.00	40.0	120	1	60	
UH-3	148 - COMMON WORK AREA		0	0' - 0"	0	60	95	140	120	0	0.00	30.0	120	1	60	
UH-4	147 - GENERAL SHOP		0	0' - 0"	0	60	95	140	120	0	0.00	30.0	120	1	60	
UH-5	137 - OIL/LUB ROOM		0	0' - 0"	0	60	95	140	120	0	0.00	25.0	120	1	60	
UH-6	136 - SMALL EQUIPMENT		0	0' - 0"	0	60	95	140	120	0	0.00	20.0	120	1	60	
UH-7	141 - WATER SERVICE/METER ROOM		0	0' - 0"	0	60	95	140	120	0	0.00	20.0	120	1	60	
UH-8	135 - MECHANICAL ROOM		0	0' - 0"	0	60	95	140	120	0	0.00	15.0	120	1	60	
UH-9	152 - PAINT ROOM		0	0' - 0"	0	60	95	140	120	0	0.00	15.0	120	1	60	

HEAT RECOVERY UNIT SCHEDULE

MARK	SERVICE	LOCATION	SUPPLY FAN DATA				EXHAUST FAN				HEATING DATA				ELECTRICAL DATA						
			AIR VOL. (CFM)	EXT. S.P. (IN. W.C.)	FAN SPEED (RPM)	MOTOR HP	AIR VOL. (CFM)	EXT. S.P. (IN. W.C.)	FAN SPEED (RPM)	MOTOR HP	EAT (°F)	LAT (°F)	INPUT (CFH)	OUTPUT (MBH)	GAS PRESS. (IN W.C.)	V	PH	HZ	FLA	MCA	MOCPS
HRU-1	MAINTENANCE BAY	ROOF	5000	0.75	2089	5	5000	0.75	2065	5	29	60	250	200.0	6.00	460	3	60	13	15	20
HRU-2	STORAGE BAY	ROOF	14000	0.75	2057	15	14000	0.75	2056	15	29	60	590	470.0	6.00	460	3	60	38	40	45

BOILER SCHEDULE - GAS FIRED

TAG	SERVICE	LOCATION	FUEL DATA		INPUT (MBH)	OUTPUT (MBH)	MEDIA	FLOW RATE (GPM)	LWT/EWT (°F)	ELEC. CHAR.			REMARKS
			INPUT (CFH)	MIN PRESS (IN WC)						V	PH	HZ	
B-1	VAV, UH MECH ROOM		400	4	399	376	NG		140/120	120	1	60	NOTE 1
B-2	VAV, UH MECH ROOM		400	4	399	376	NG		140/120	120	1	60	NOTE 1

AIR SEPARATOR SCHEDULE

TAG	SERVICE	LOCATION	FLOW RATE (GPM)	CONN. SIZE (IN)	REMARKS

NOTES:

1. PROVIDE FLANGED INTEGRAL STRAINER.

AIR COMPRESSOR SCHEDULE

TAG	SERVICE	RECEIVER SIZE (GAL)	ACFM AT 100 PSIG	DRIVE MOTOR HP	ELECTRICAL DATA		
					V	PH	HZ
CA-1	BLDG COMP. AIR 137 - OIL/LUB ROOM	120	89	20	208	3	3

RADIANT TUBE HEATER SCHEDULE - GAS FIRED

TAG	SERVICE	LOCATION	FUEL DATA		LENGTH (FT)	NO. OF PASSES	MEDIA	ELEC. CHAR.			
			INPUT (CFH)	MIN PRESS (IN WC)				V	PH	HZ	
RTH# (ALL)	MAINT/STORAGE BAYS	MAINT/STORAGE BAYS	90	7	40	1	NG	120	1	60	

PUMP SCHEDULE

TAG	SERVICE	LOCATION	PUMP DATA					ELEC. CHAR.						
			TYPE	OPER. TEMP. (°F)	FLOW (GPM)	T.D.H. (FT. OF H2O)	RPM	MOTOR HP	V	PH	HZ	FLA	MCA	MCOP (AMPS)
P-1	SYSTEM PUMP	MECH ROOM	IN-LINE	140	40	50	1750	2	460	3	60	--	--	--
P-2	SYSTEM PUMP	MECH ROOM	IN-LINE	140	40	50	1750	2	460	3	60	--	--	--
BP-1	BOILER PUMPS	MECH ROOM	IN-LINE	140	40	30	1750	1	460	3	60	--	--	--
BP-2	BOILER PUMPS	MECH ROOM	IN-LINE	140	40	30	1750	1	460	3	60	--	--	--

FINNED TUBE CONVECTOR SCHEDULE

MARK	ENCLOSURE		ELEMENT			MOUNTING HEIGHT	EWT (°F)	LWT (°F)	MBH/FT	GPM	REMARKS
	LENGTH	HEIGHT	TUBE SIZE	FIN SIZE	TUBE LENGTH						
FT-1	7' 6"	12"	3/4"	4-1/4 X 4-1/4	5' - 6"	0' - 6 1/2"	140	130	0.6	1.0	1

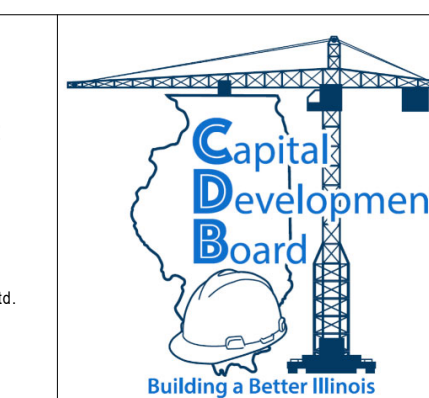
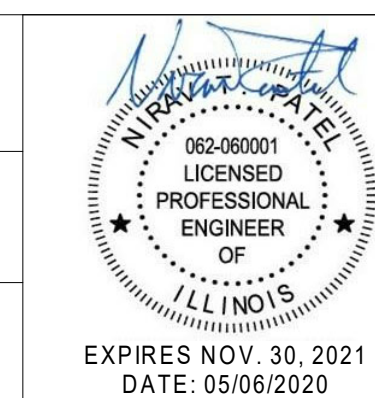
REMARKS:

1. CAPACITY LISTED FOR 50 FINS/FT.

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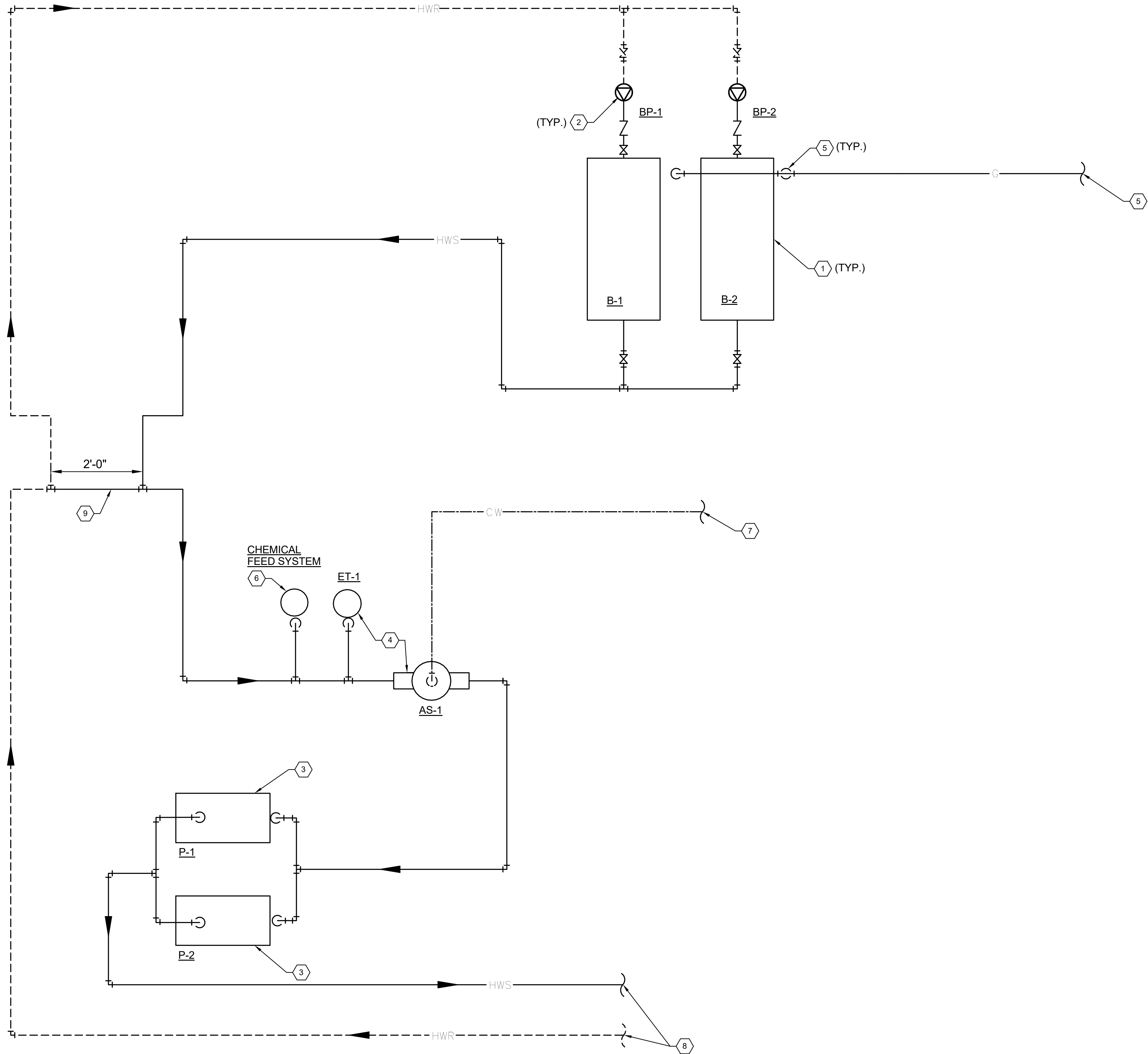
HVAC SCHEDULES

STEVENS ON YARD MAINTENANCE FACILITY
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 ILLINOIS DEPARTMENT OF TRANSPORTATION
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PROJECT NO. 630-128-005
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KEYNOTES (THIS SHEET)

1. MODULATING BOILER.
2. INLINE BOILER PUMPS (CONSTANT SPEED). SEE DETAIL 5/H-6.01 FOR PIPE/VALVE ARRANGEMENTS.
3. CIRCULATING PUMPS (VARIABLE SPEED). SEE DETAIL 1/H-6.01 FOR PIPE/VALVE ARRANGEMENTS.
4. SEE DETAIL 3/H-6.01 FOR PIPING ARRANGEMENTS ASSOCIATED WITH EXPANSION TANK AND AIR SEPARATOR.
5. NATURAL GAS PIPING DOWN TO BOILER.
6. CHEMICAL FEED SYSTEM.
7. NEW SYSTEM FILL PIPING 3/4" CW. PROVIDE BACKFLOW PREVENTER AND ASSOCIATED ACCESSORIES AND SUPPORTS. SEE DETAIL 10/H-6.01 FOR PIPING ARRANGEMENTS. SEE PLUMBING DRAWINGS FOR LOCATION OF CW MAIN.
8. SYSTEM PIPING TO/FROM BUILDING.
9. DECOUPLER/Common PIPE.

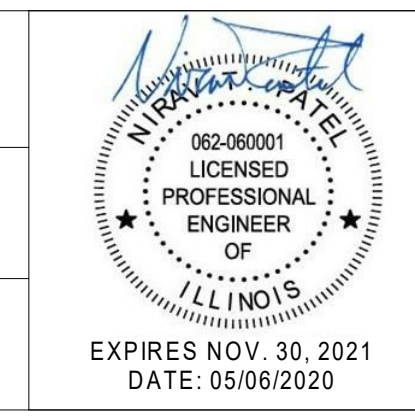


1 BOILER SCHEMATIC
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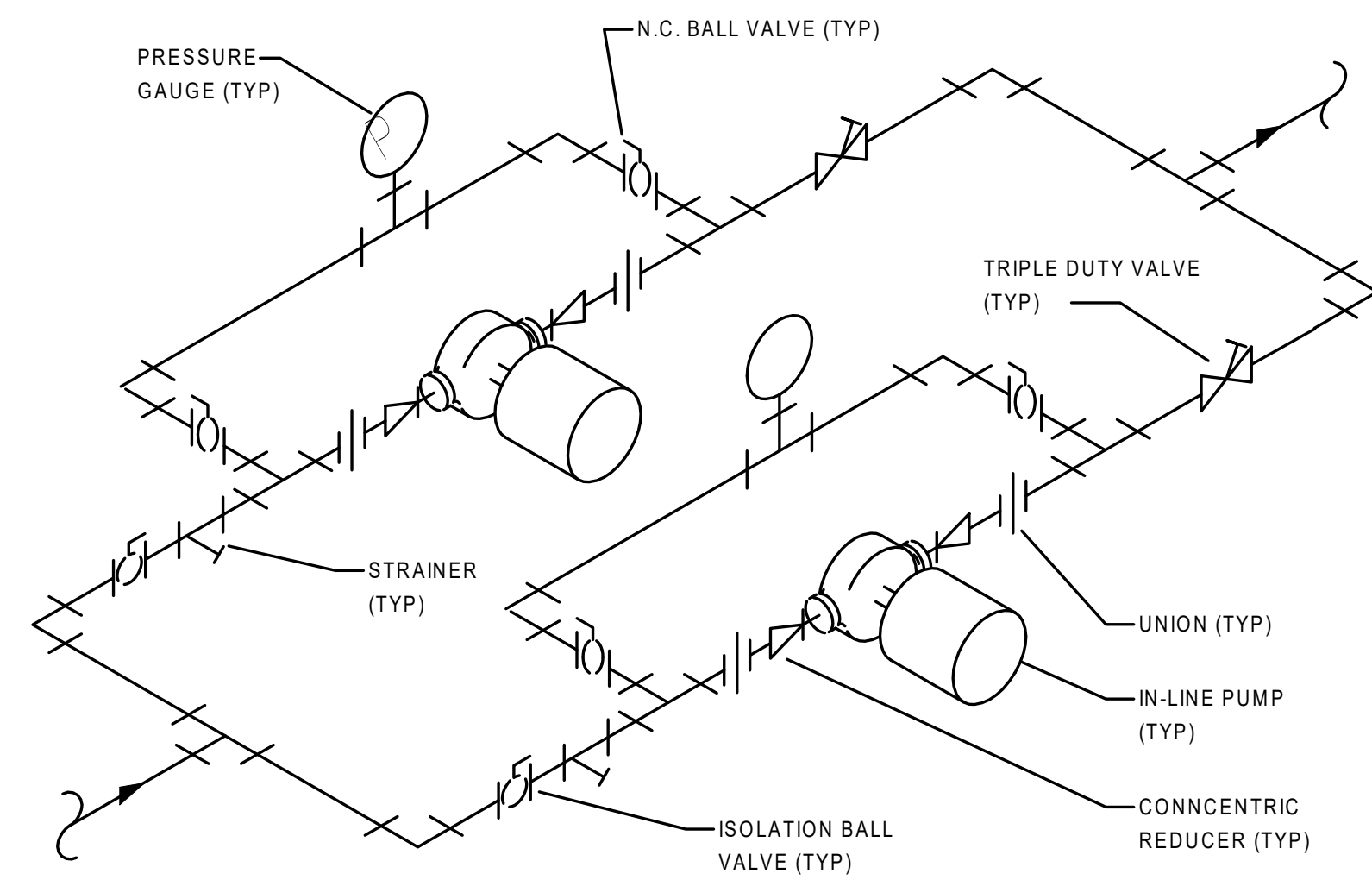
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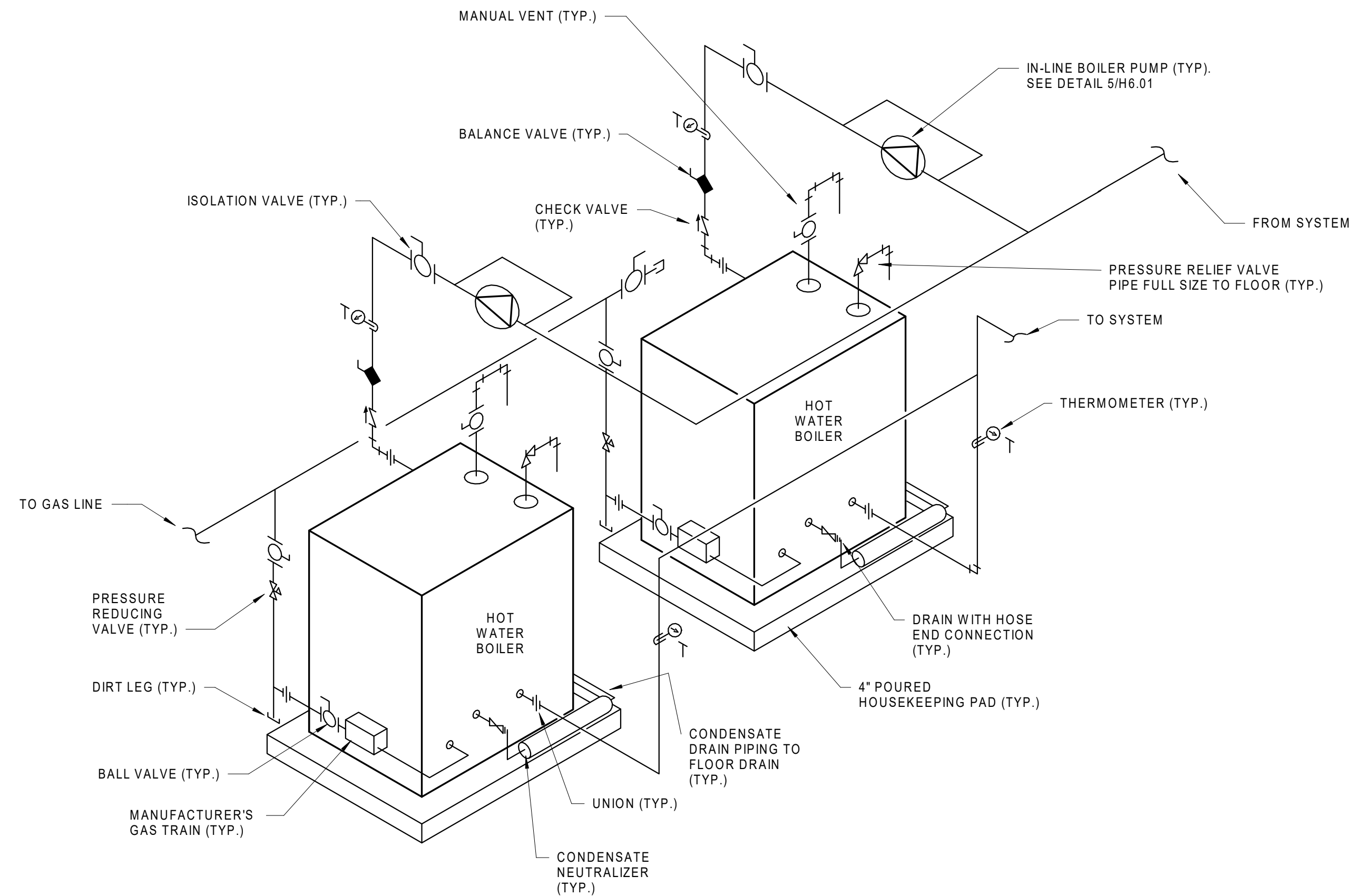
BOILER SCHEMATIC
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PROJECT NO. 630-128-005
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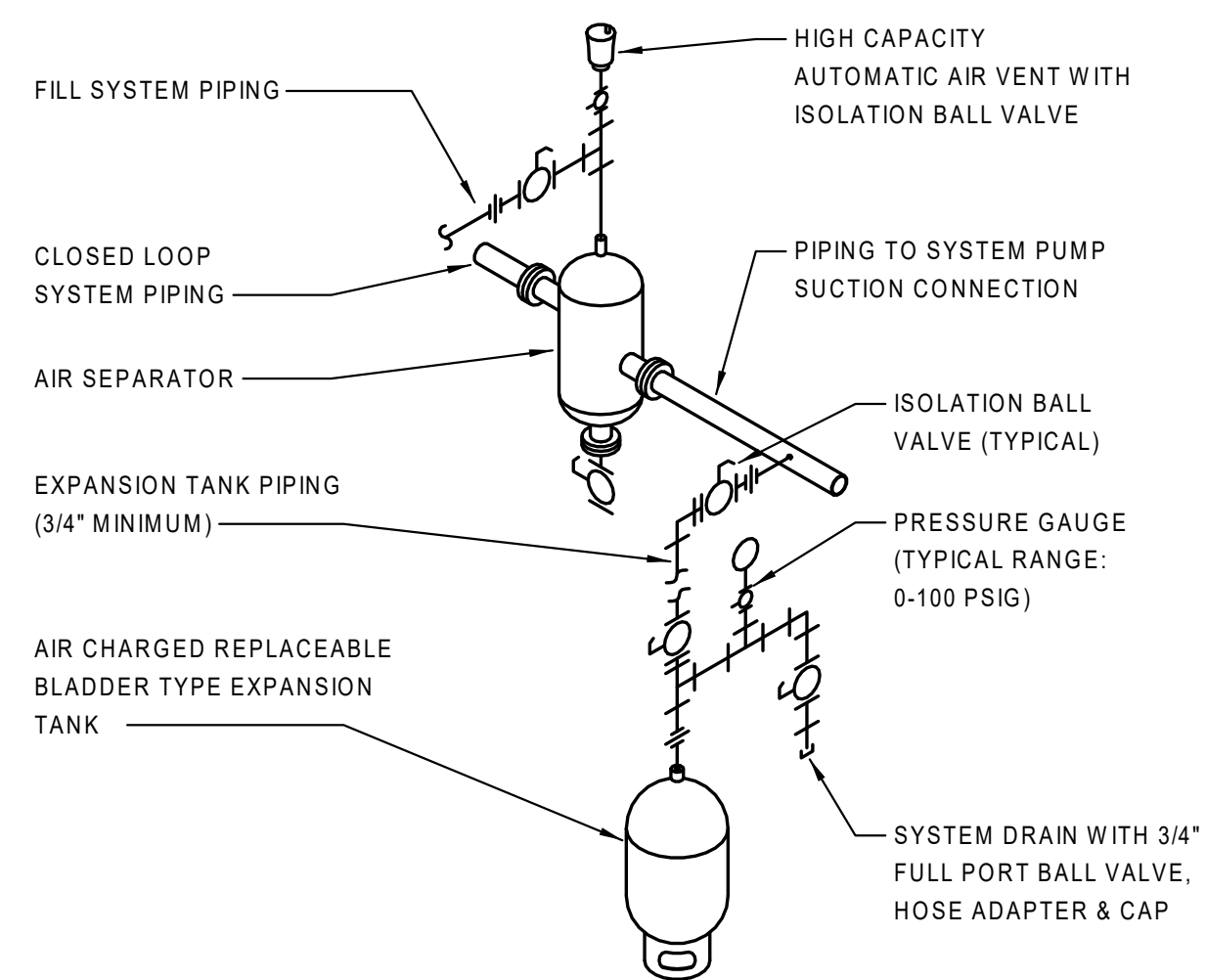
1 IN-LINE DUAL PUMP DETAIL

N.T.S.



2 BOILER PIPING SCHEMATIC

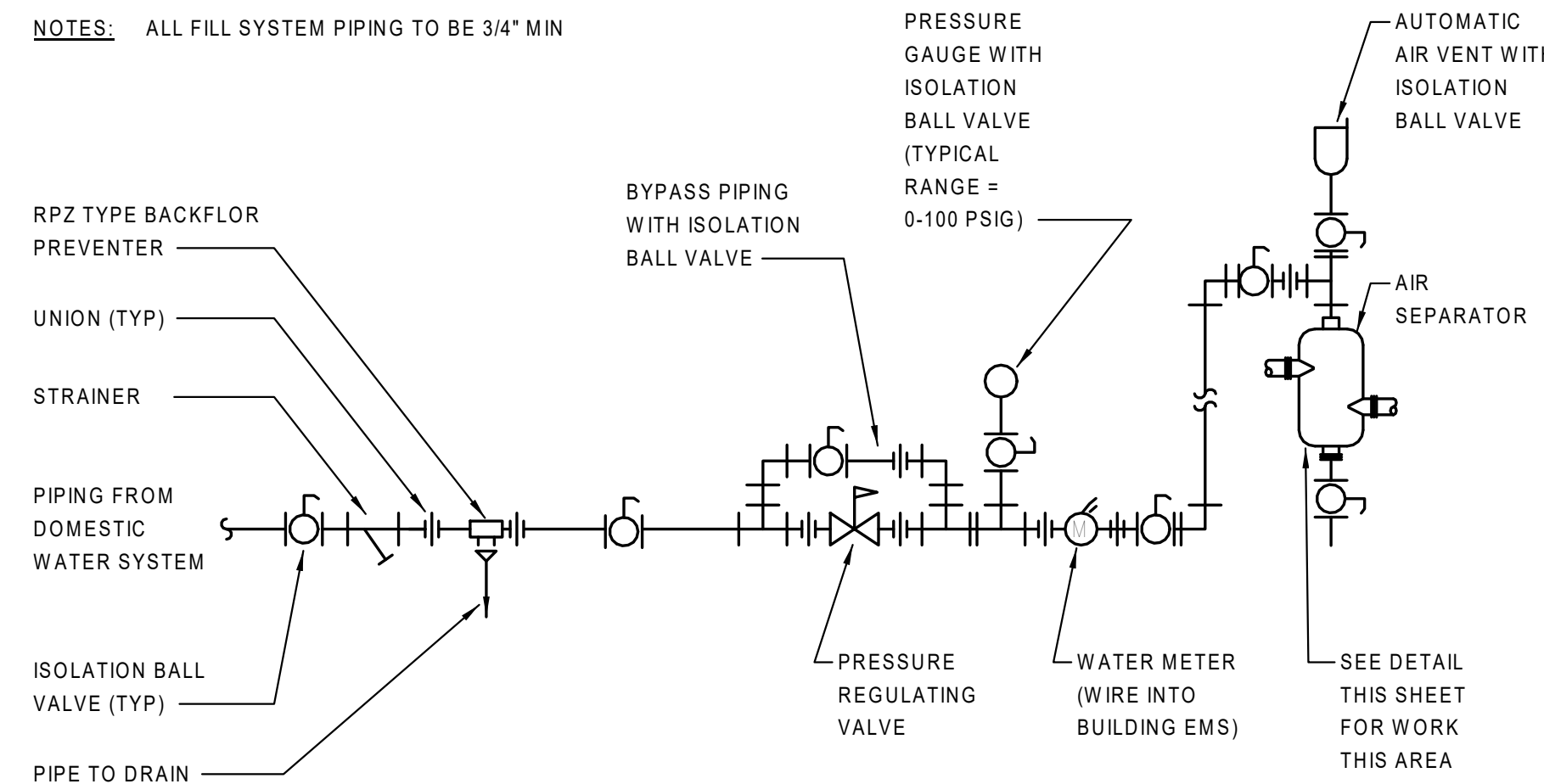
N.T.S.



NOTES:
 ALL THREADED NIPPLES/PIPING BETWEEN EACH POINT OF CONNECTION TO CLOSED LOOP SYSTEM AND FIRST ISOLATION VALVE TO BE SCHEDULE 80.
 EXPANSION TANK PIPING MUST BE CONNECTED TO SIDE OF SYSTEM PIPING TO PREVENT ENTRANCE OF AIR OF DEBRIS FROM SYSTEM.
 EXPANSION TANK PIPING TO BE INSULATED.

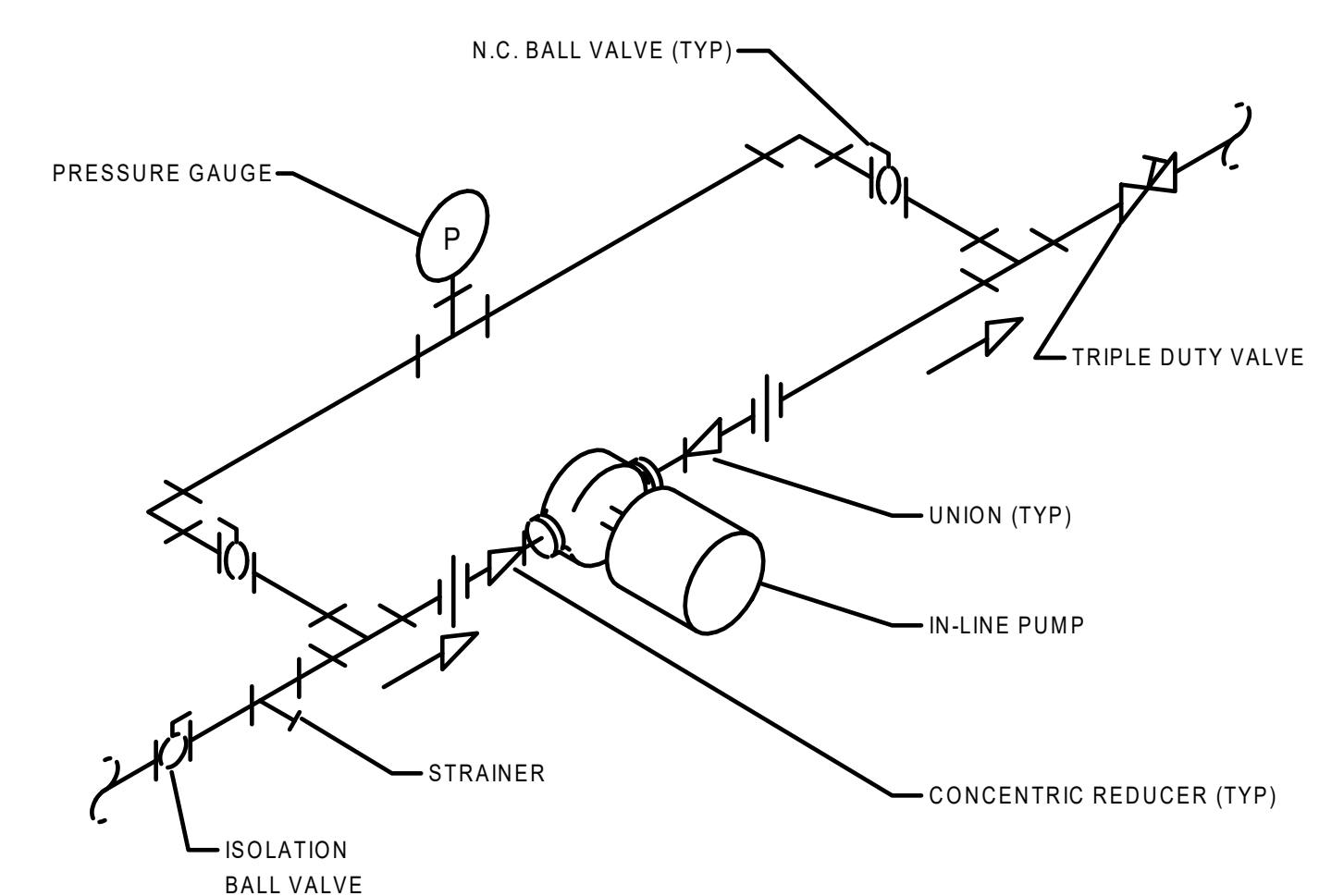
3 CLOSED LOOP HYDRONIC SYSTEM AIR SEPARATOR/EXPANSION TANK SCHEMATIC

N.T.S.



4 CLOSED LOOP HYDRONIC SYSTEM FILL SYSTEM PIPING SCHEMATIC

N.T.S.



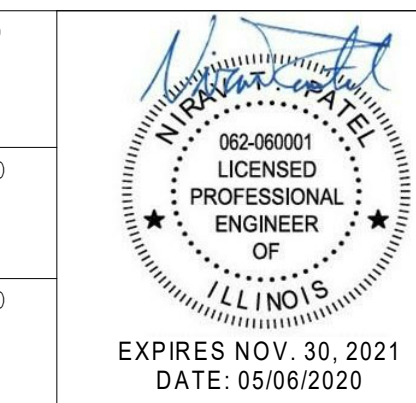
5 IN-LINE PUMP DETAIL

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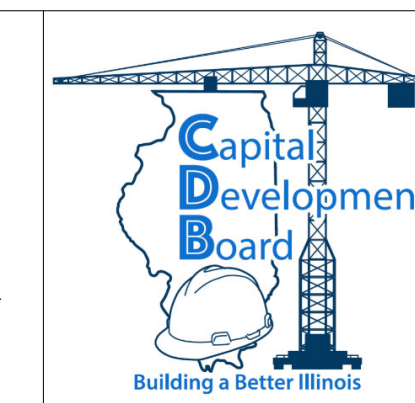
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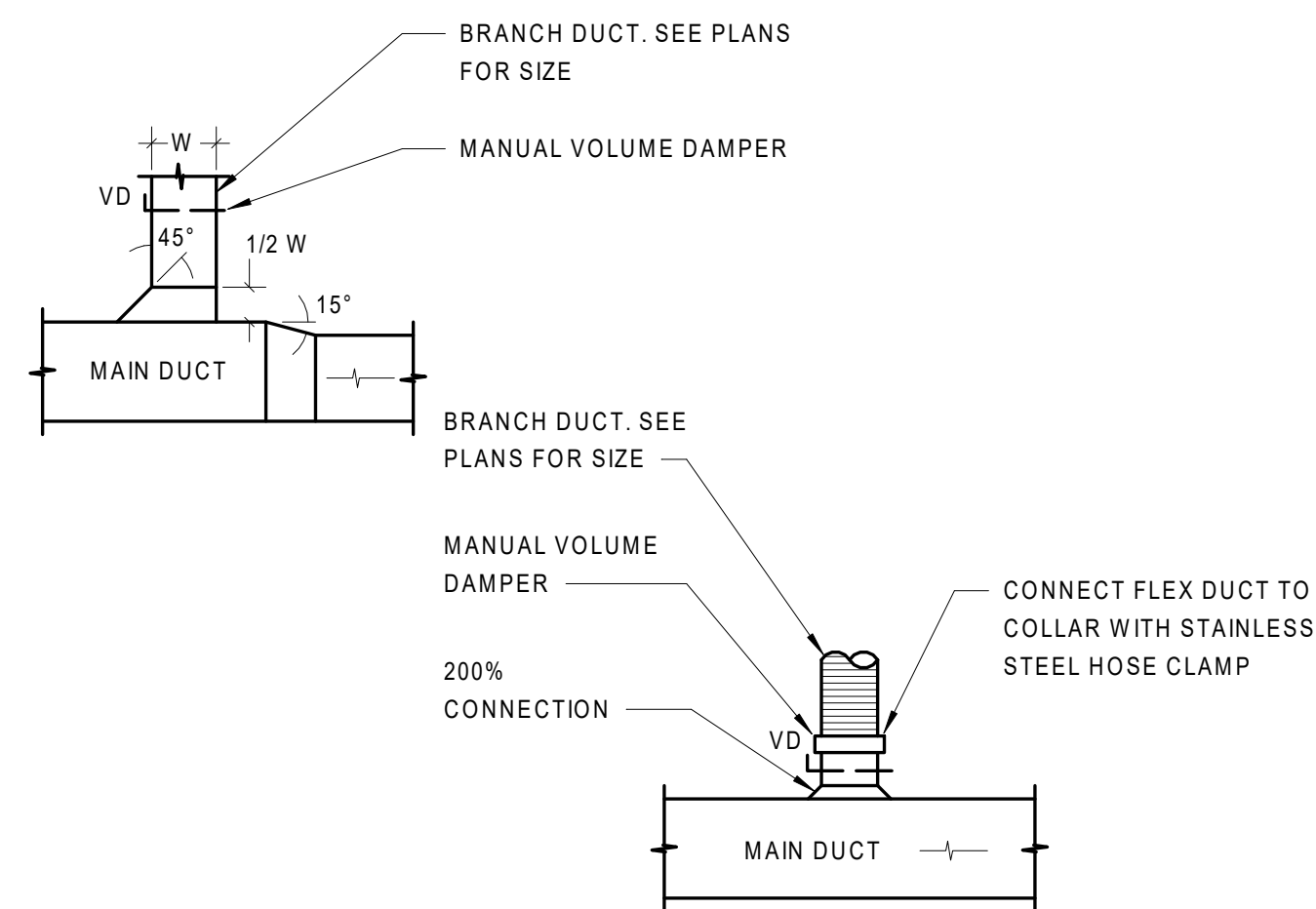
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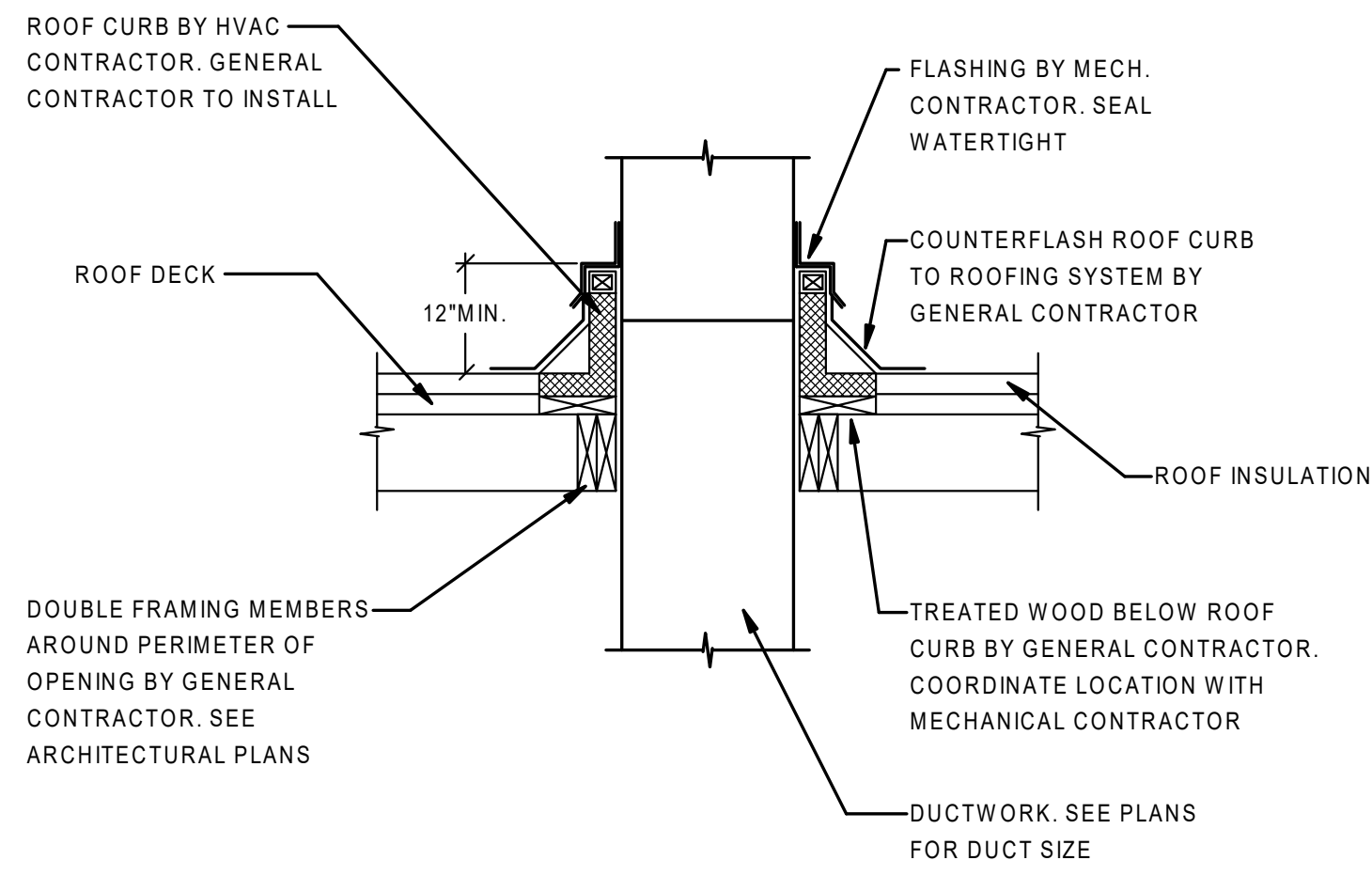
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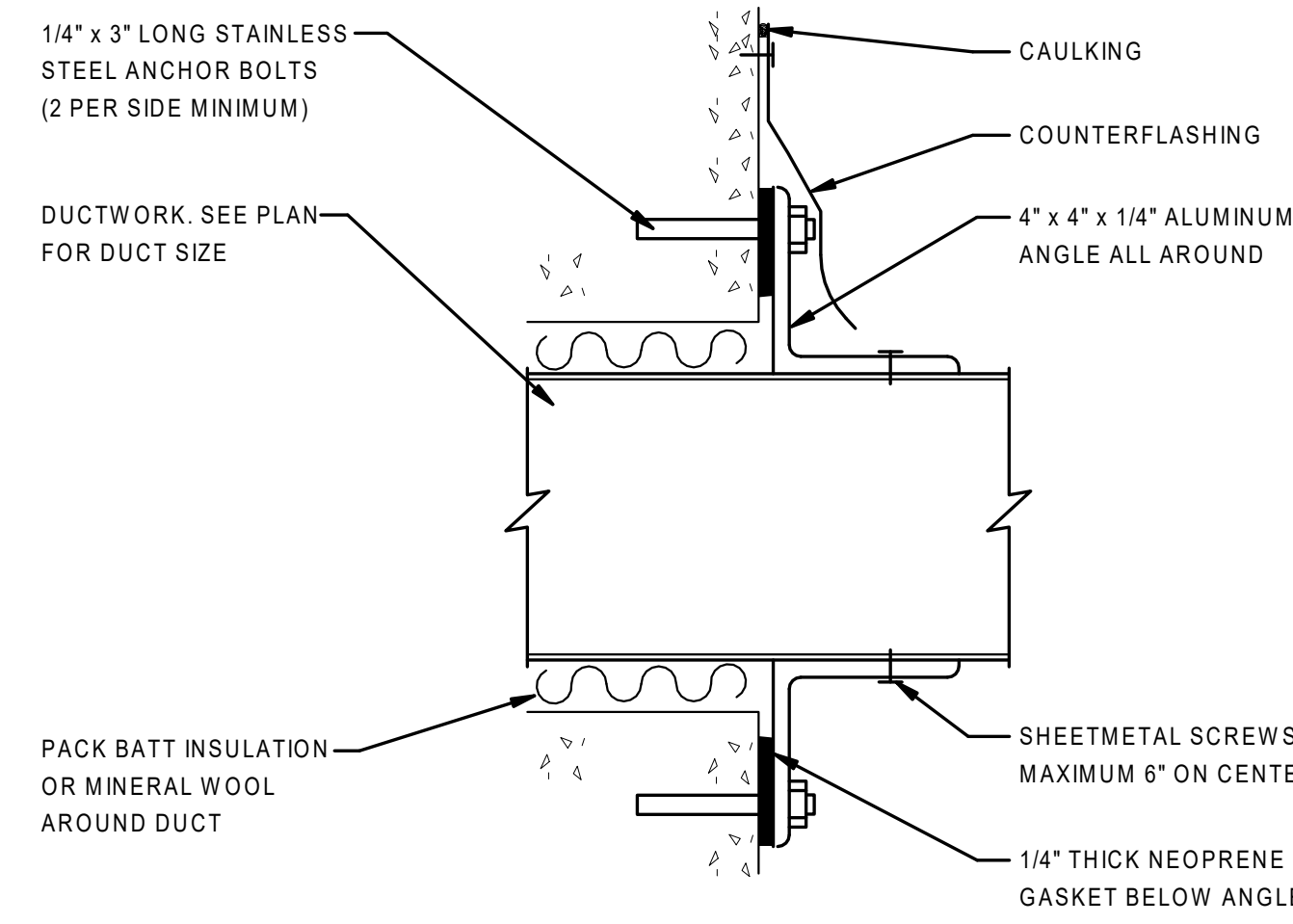
1 DUCT CONNECTIONS

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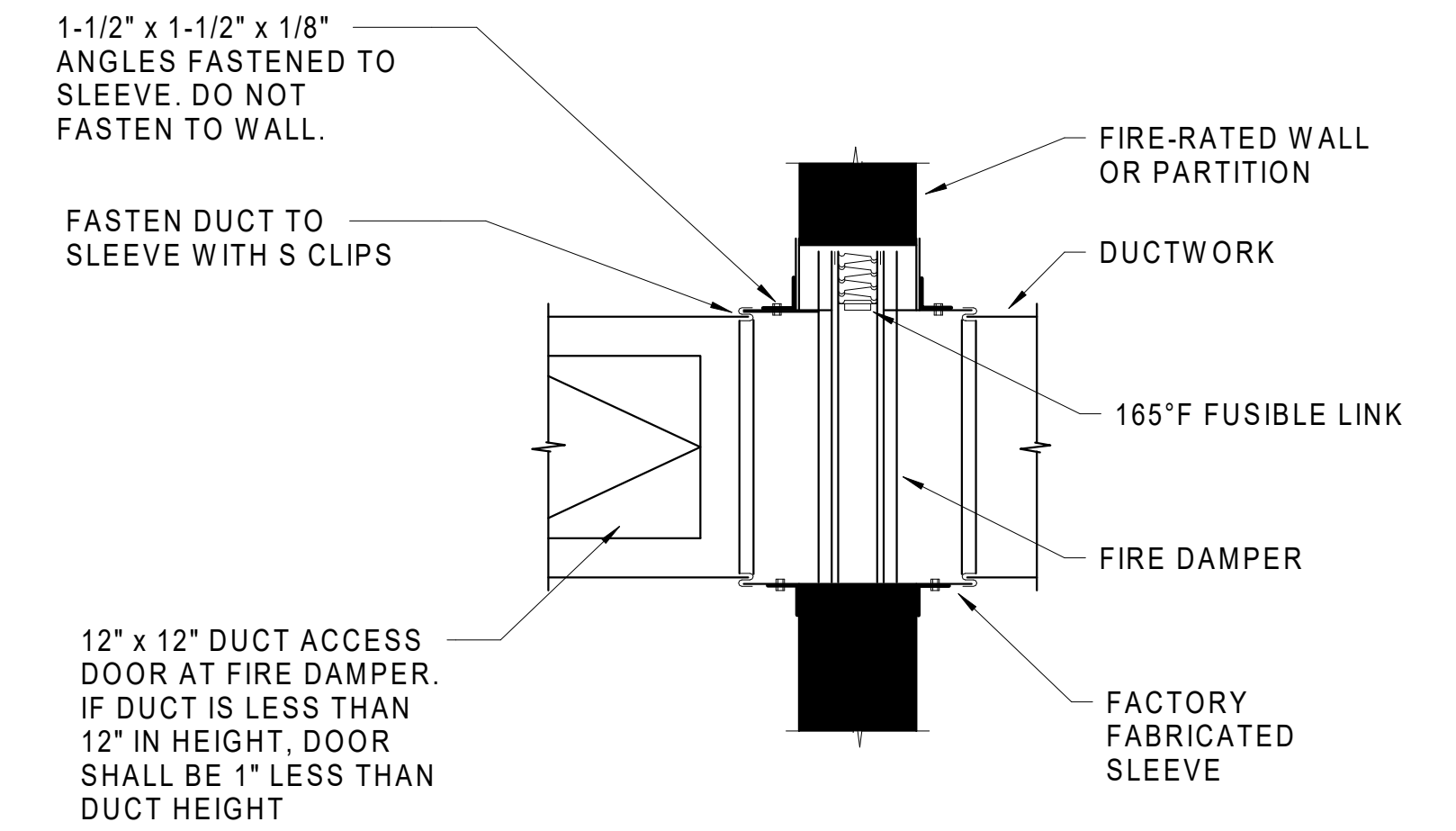
2 DUCT PENETRATION THRU ROOF

N.T.S.



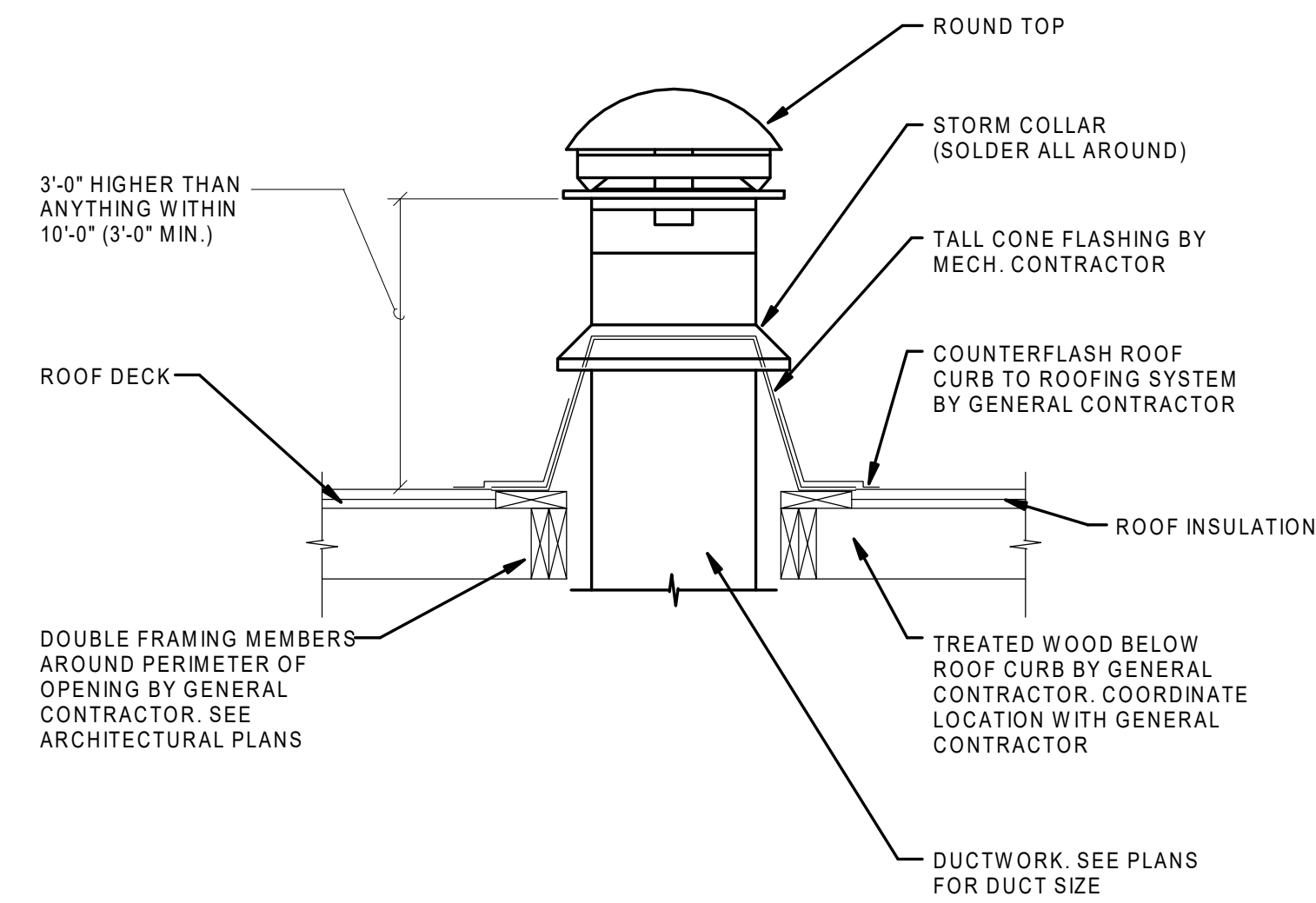
3 DUCT PENETRATION DETAIL

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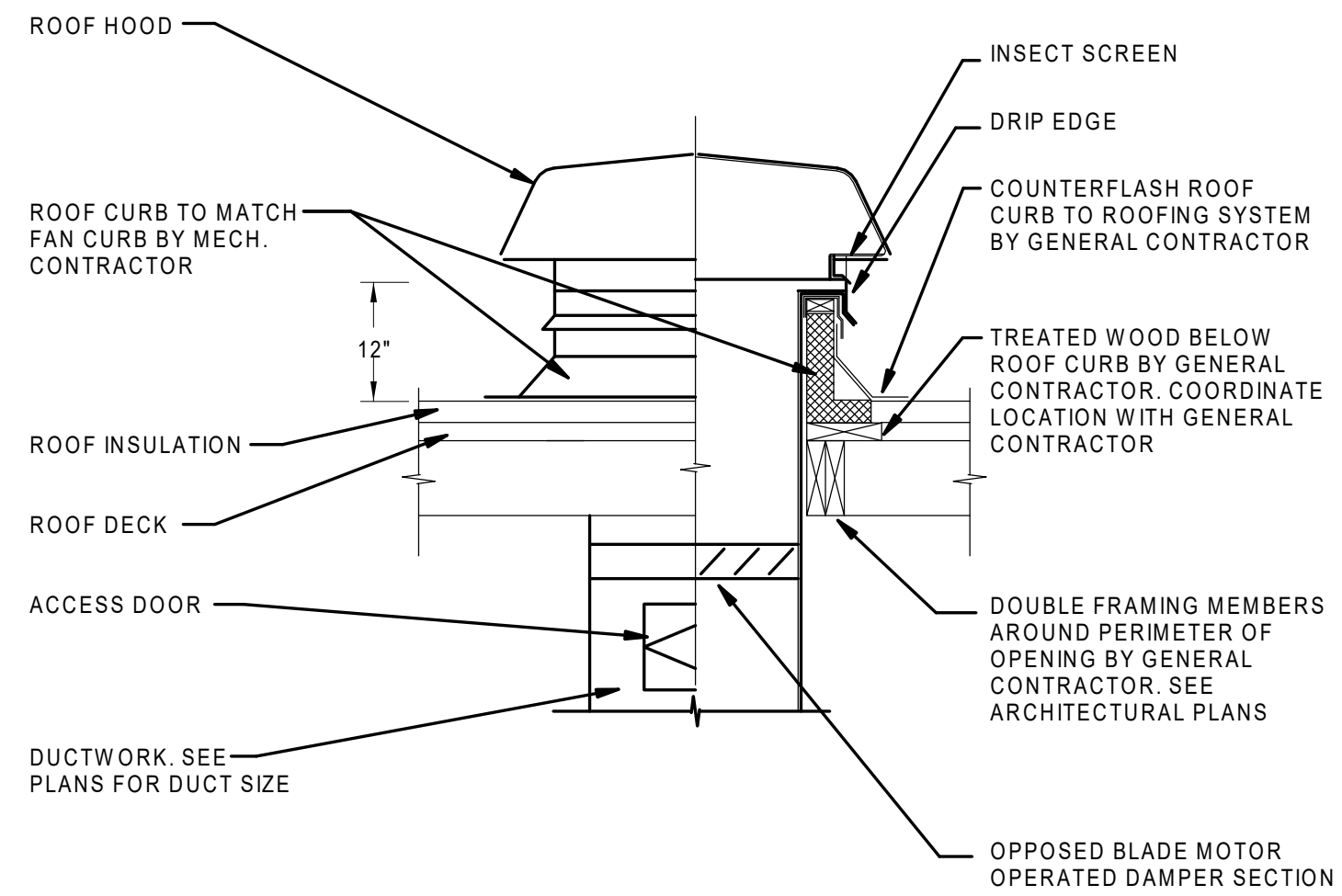
4 FIRE DAMPER DETAIL

N.T.S.



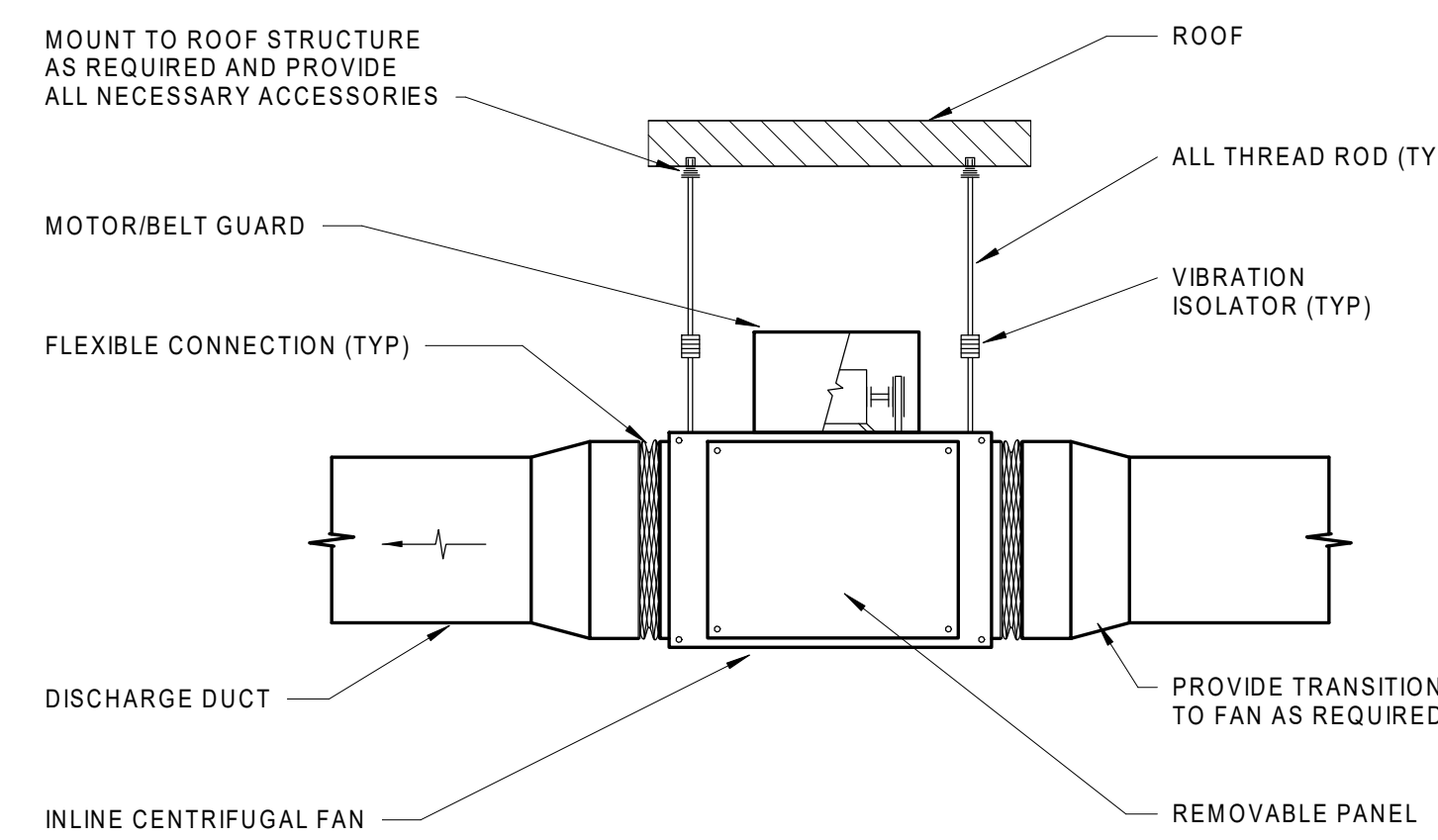
5 FLUE INSTALLATION

N.T.S.



6 HOOD INSTALLATION

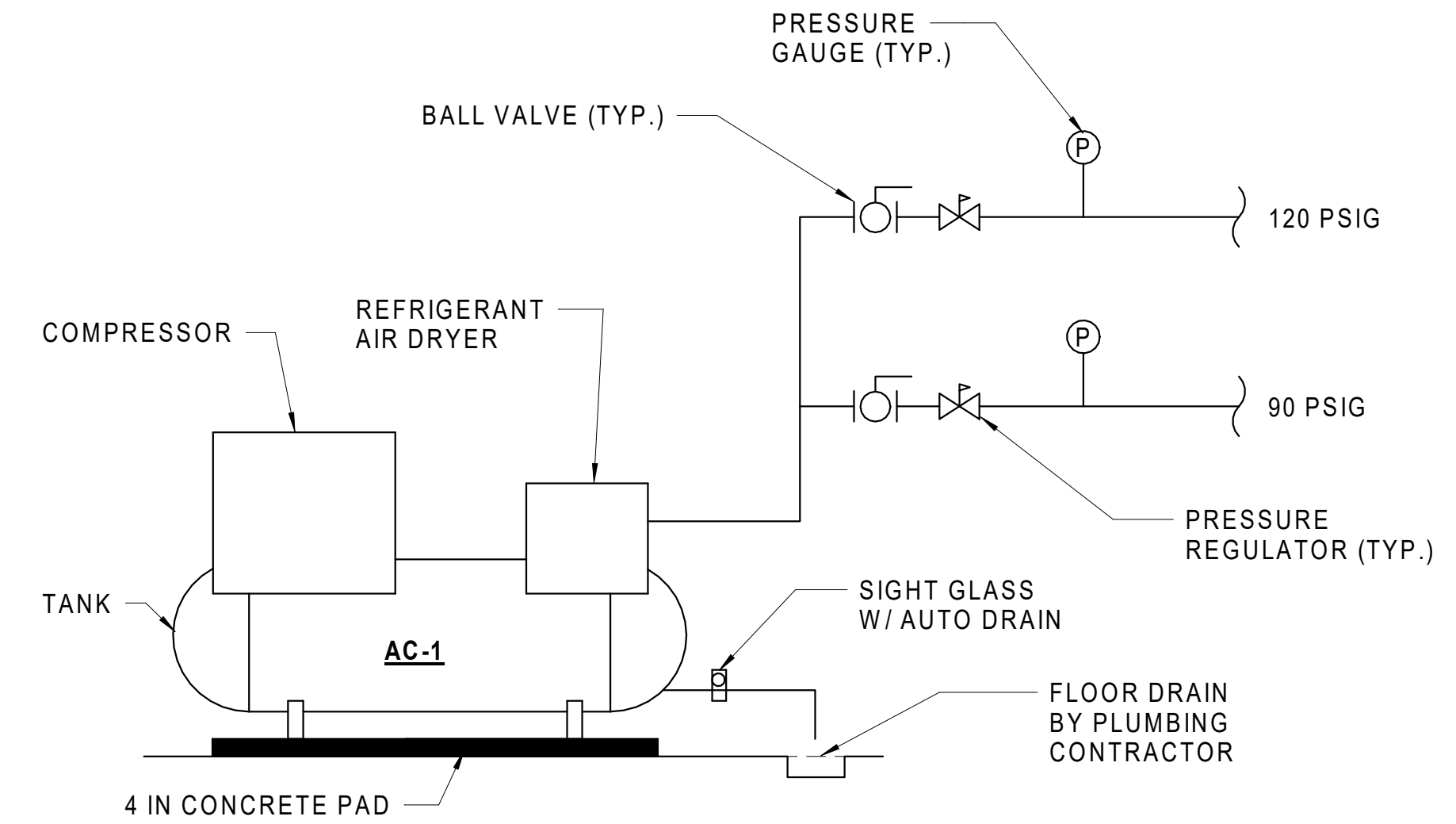
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NOTE: SEE ARCHITECTURAL DRAWINGS FOR EXACT ROOF DETAILS

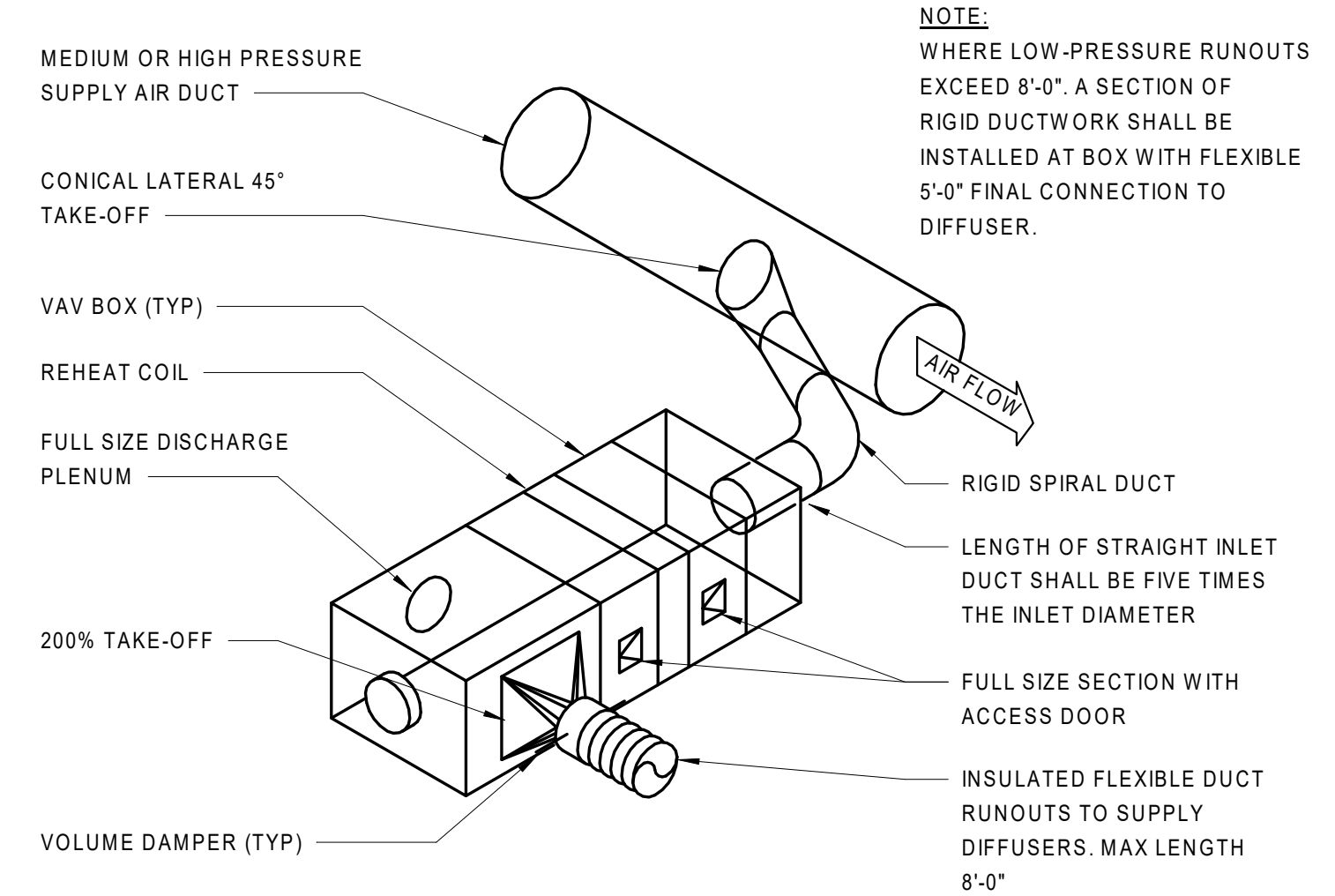
7 INLINE CENTRIFUGAL FAN INSTALLATION

N.T.S.



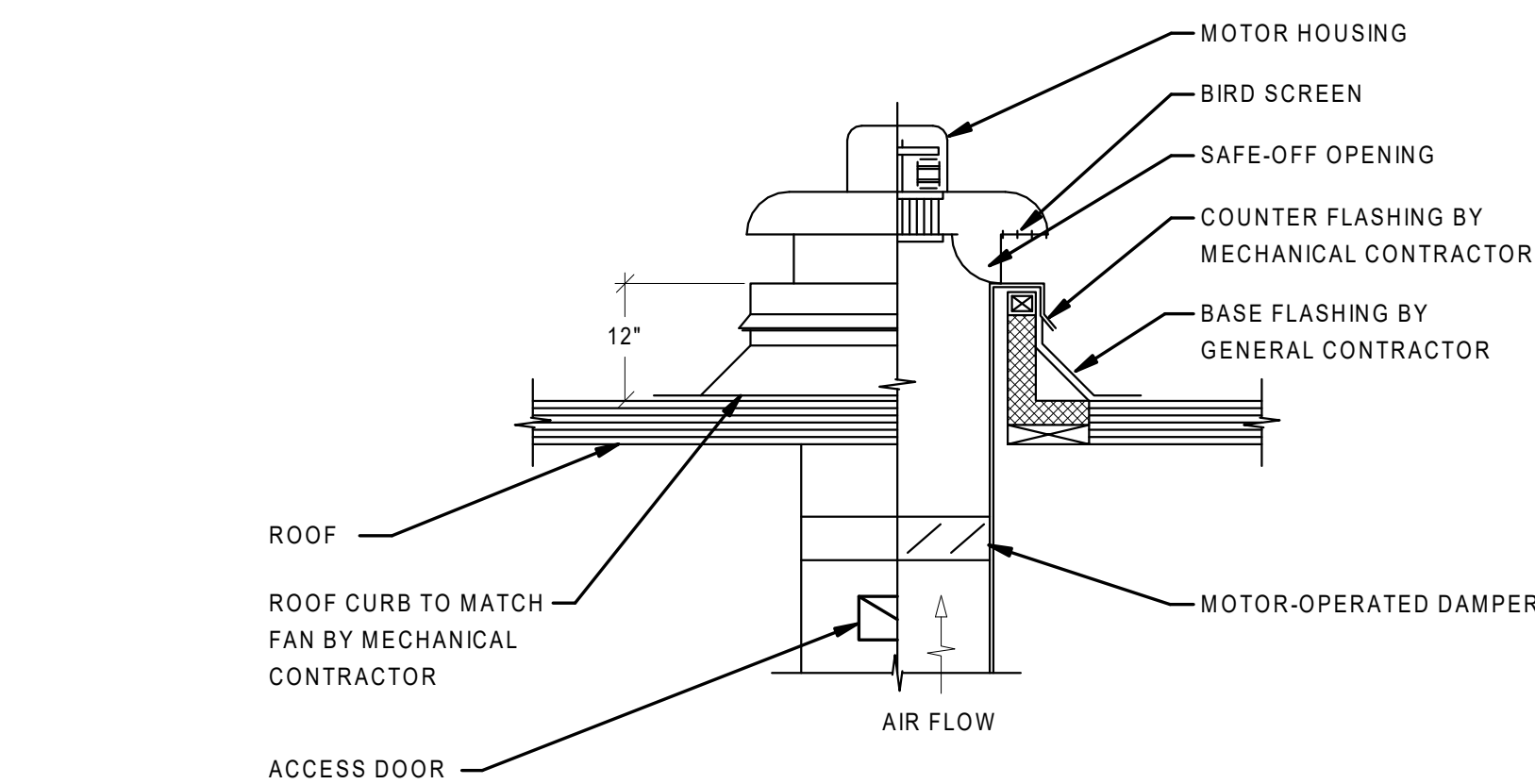
8 AIR COMPRESSOR DETAIL

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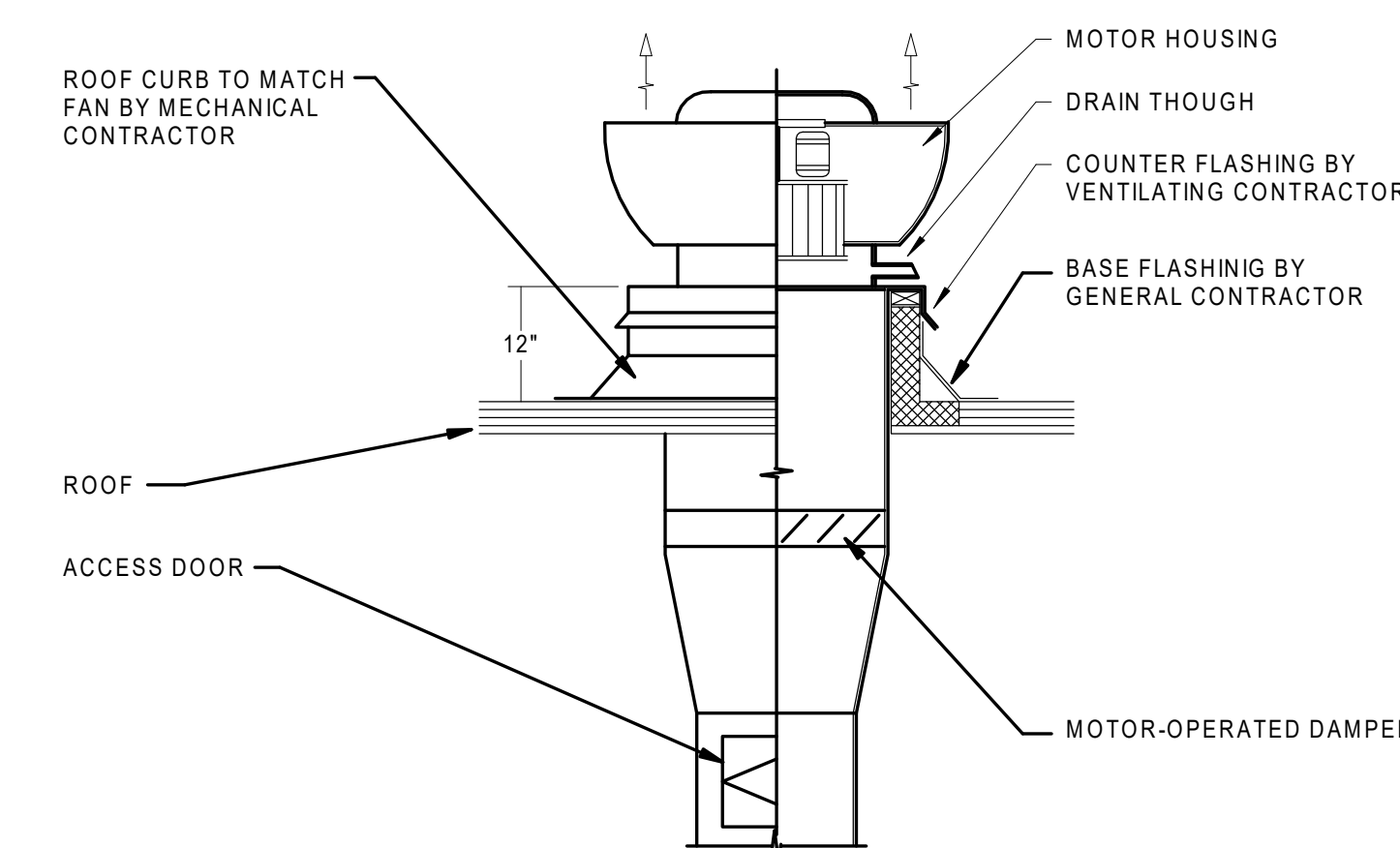
9 VAV BOX DUCT CONNECTIONS

N.T.S.



10 ROOF MOUNTED FAN INSTALLATION - DOWNBLAST

N.T.S.



11 ROOF MOUNTED FAN INSTALLATION - UPBLAST

N.T.S.

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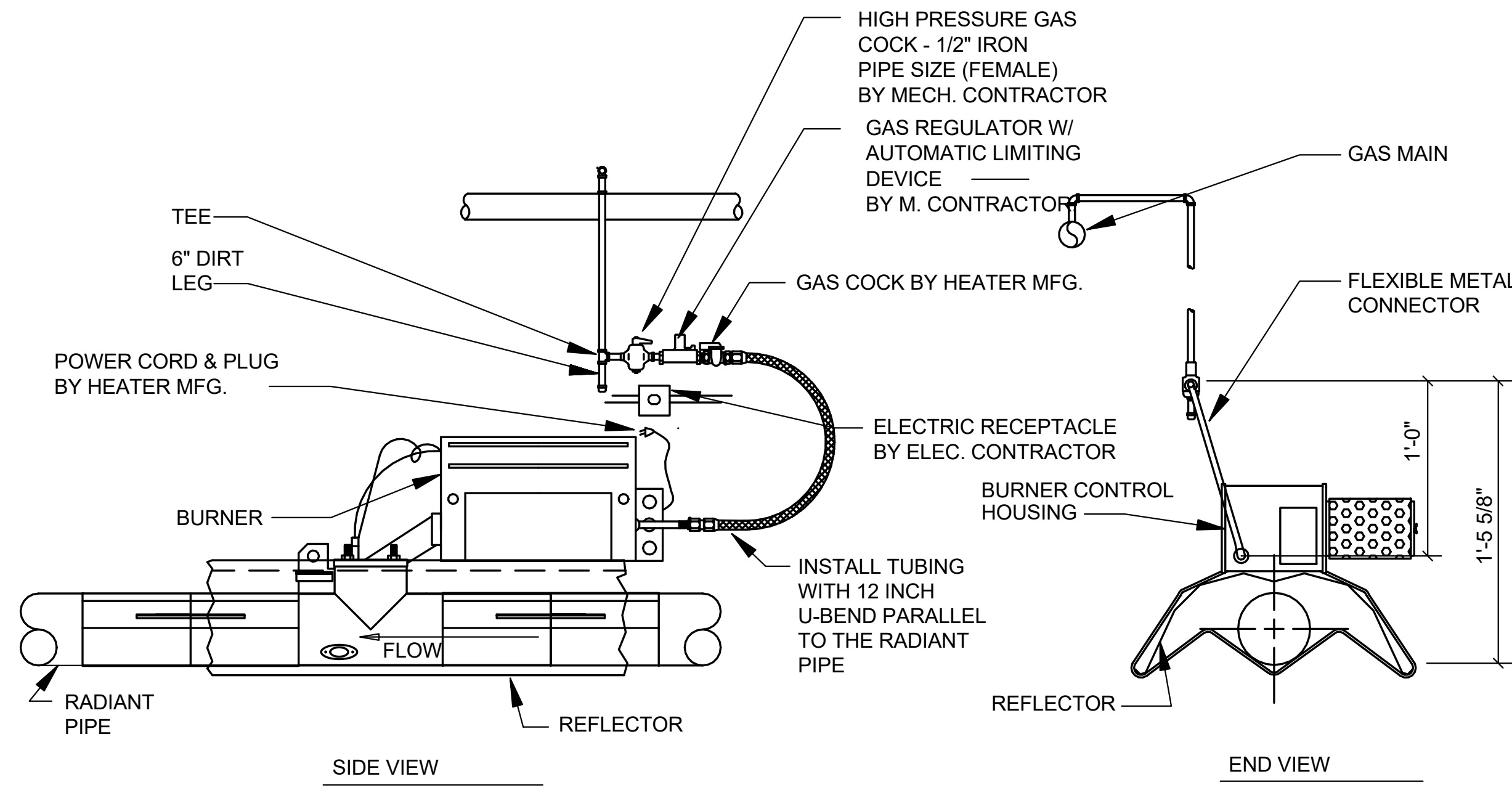
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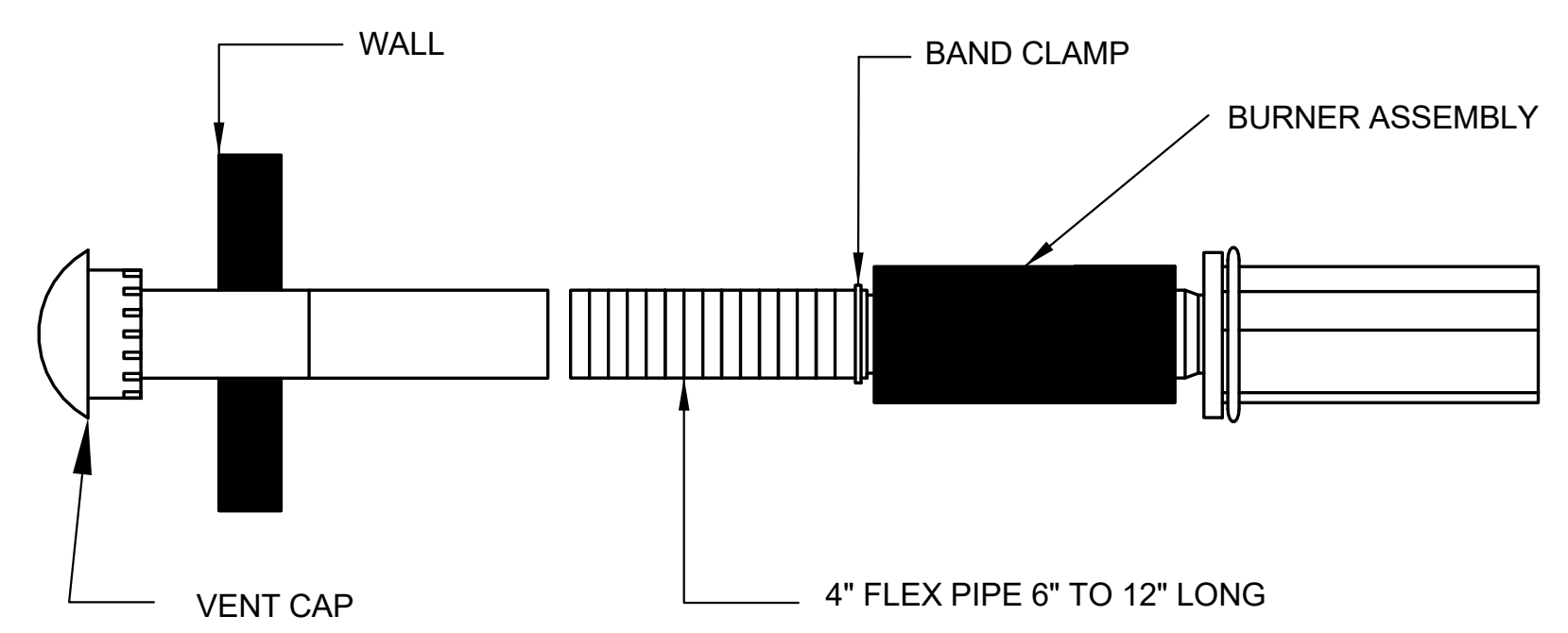
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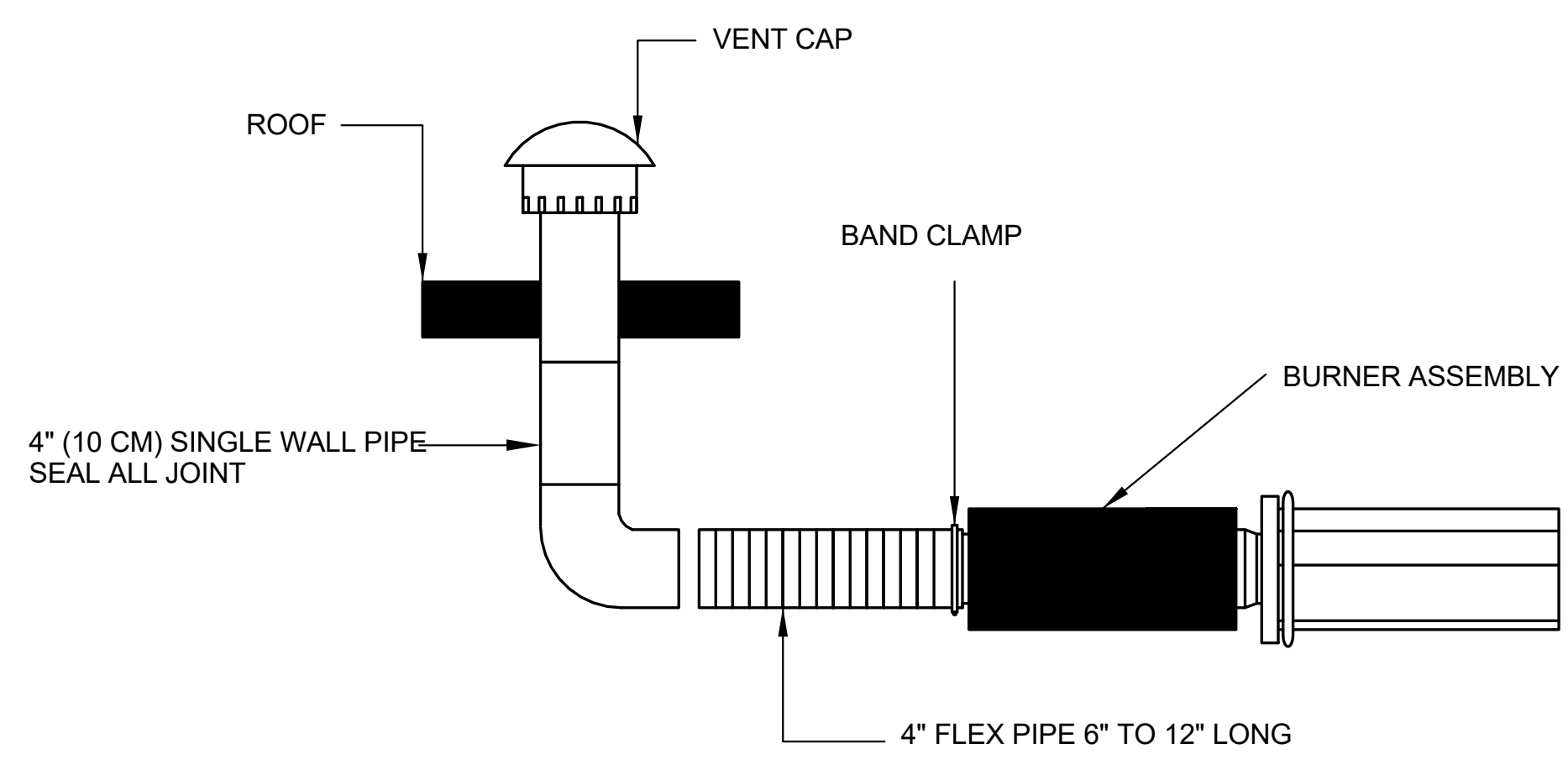


2 GAS CONNECTION TO BURNER DETAIL

N.T.S.



HORIZONTAL INSTALLATION

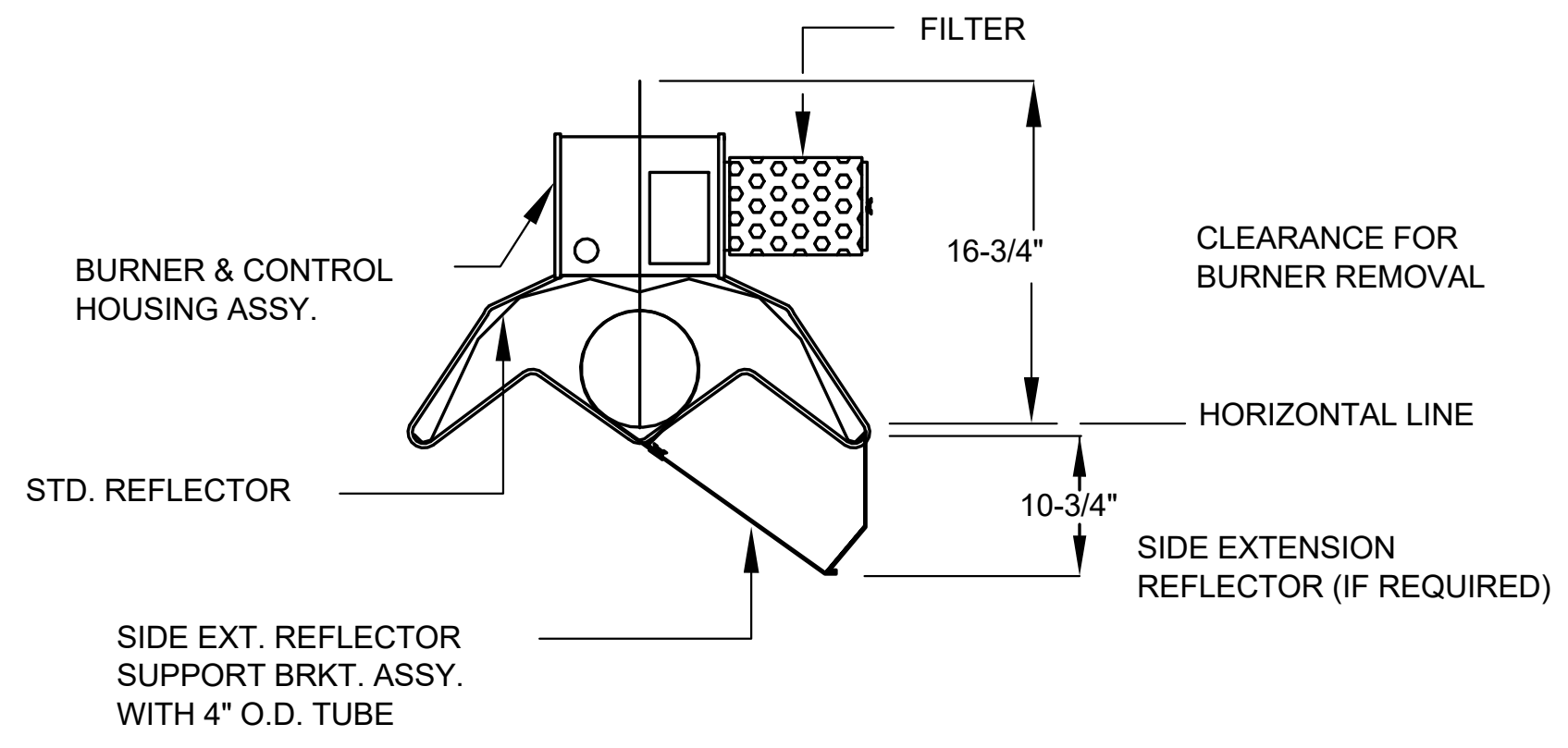


VERTICAL INSTALLATION

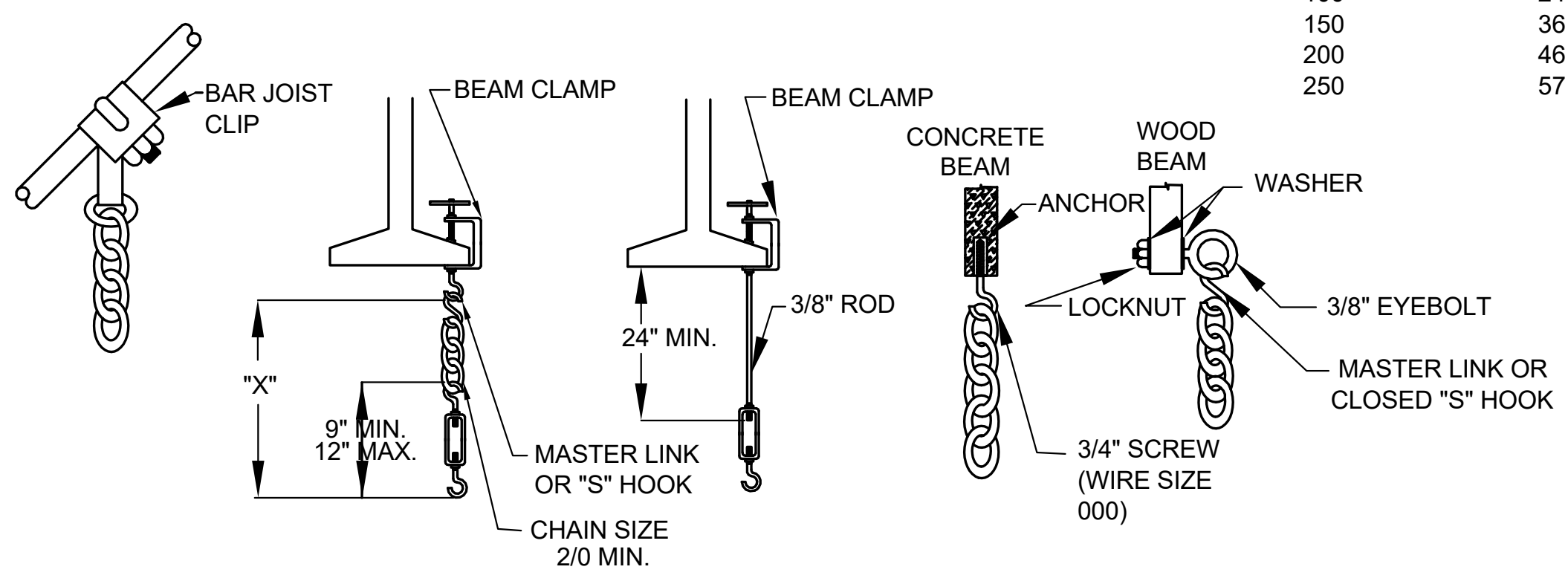
- NOTES:**
- REFER TO INSTALLATION, OPERATION AND SERVICE MANUAL FOR PROPER DESIGN.
 - FOR AN OUTSIDE AIR SUPPLY, A 4" O.D. SINGLE WALL PIPE MUST BE ATTACHED TO THE HEATER. THE DUCT MAY BE UP TO 45 FT. MAXIMUM LENGTH OR 2 FT. MINIMUM LENGTH WITH NO MORE THAN 2 ELBOWS.
 - WHEN HEATER EXTENSION PACKAGES ARE USED, THEY DIRECTLY EFFECT MAXIMUM VENT LENGTH. REFER TO INSTALLATION, OPERATION AND SERVICE MANUAL FOR REQUIREMENTS.
 - THE OUTSIDE AIR TERMINAL MUST BE SECURELY FASTENED TO THE OUTSIDE WALL.

1 OUTSIDE COMBUSTION AIR SUPPLY DETAIL

N.T.S.



TYPICAL SUSPENSION DETAILS



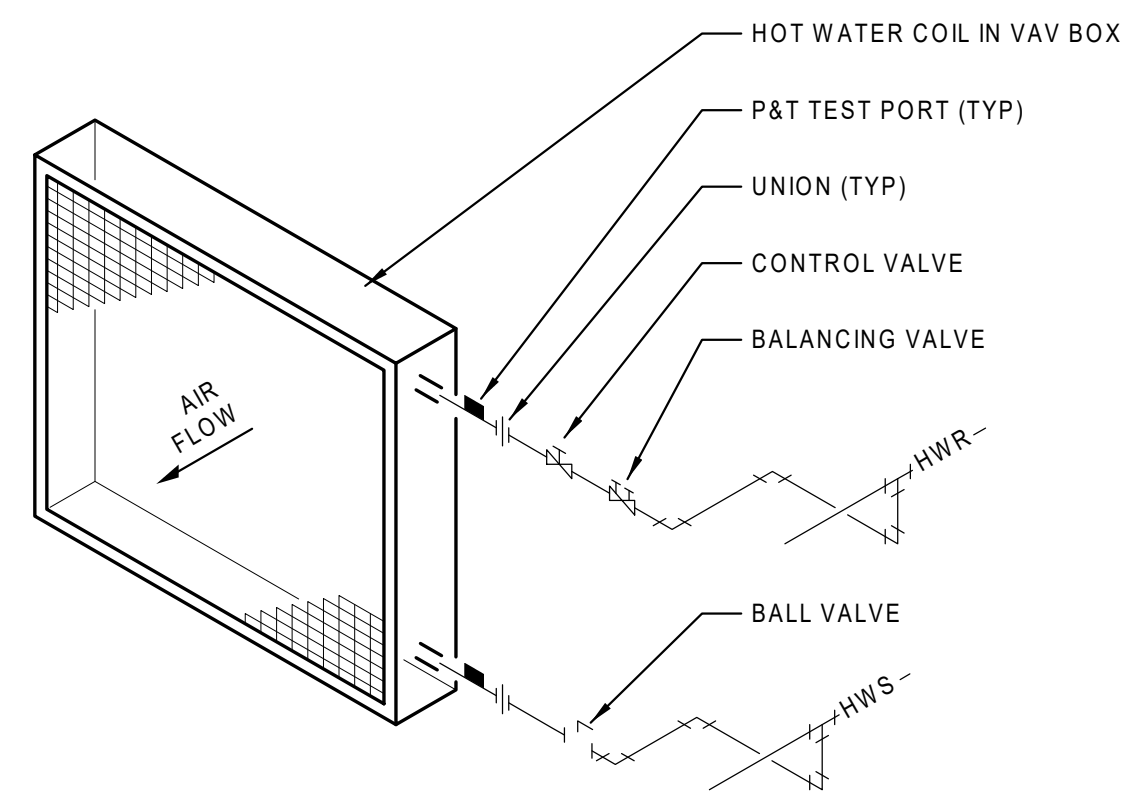
STRAIGHT RUN LENGTH (FT.)	MIN. LENGTH "X" (IN.)	TYPICAL EXPANSION (IN.)
50	12	+/-1
100	24	+/-2
150	36	+/-3
200	46	+/-4
250	57	+/-5

3 GAS-FIRED INFRARED HEATER TYPICAL SUSPENSION DETAIL

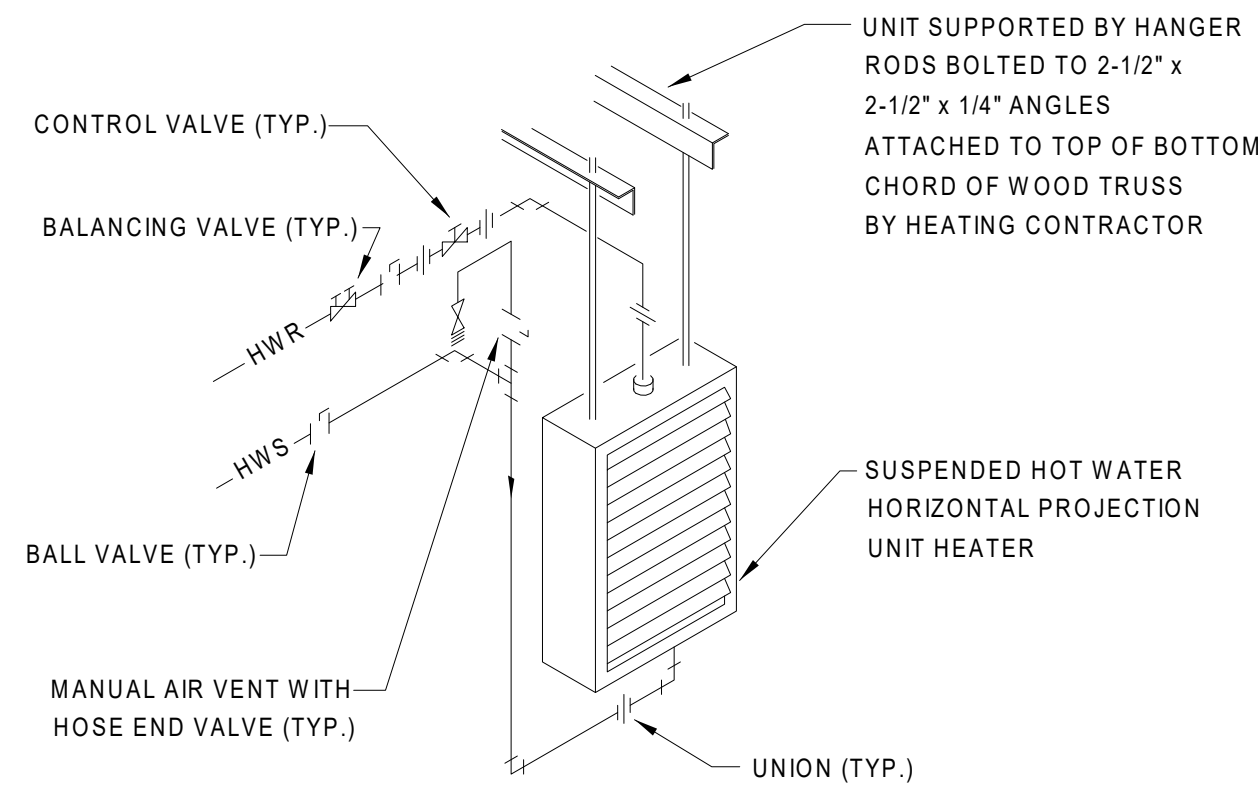
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<p>REVISIONS</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>5/6/20</td> <td>FINAL BRIDGING DOCUMENTS</td> </tr> </tbody> </table>	NO.	DATE	REMARKS	A	5/6/20	FINAL BRIDGING DOCUMENTS	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">DRAWN AJM</td> <td style="width:50%;">PREPARED</td> </tr> <tr> <td style="width:50%;">TRACED</td> <td style="width:50%;">APPROVED</td> </tr> <tr> <td style="width:50%;">CHECKED</td> <td style="width:50%;">APPROVED</td> </tr> <tr> <td style="width:50%;">NTP</td> <td style="width:50%;">NTP</td> </tr> </table>	DRAWN AJM	PREPARED	TRACED	APPROVED	CHECKED	APPROVED	NTP	NTP		<p>DESIGN FIRM REGISTRATION No. 184-000450 118 S. Clinton St. Suite 570 Chicago, IL 60661 PHONE : 312.648.9900 www.clarkdietz.com</p>	<p>700 N Sangamon Chicago, IL 60642 312.432.4180 312.432.4184 © 2019, Muller & Muller, Ltd. DESIGN FIRM REG. #184-003047</p>	<p>State of Illinois JB PRITZKER, GOVERNOR Illinois Capital Development Board</p>	<p>HVAC DETAILS</p> <p>STEVENSON YARD MAINTENANCE FACILITY BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION) ILLINOIS DEPARTMENT OF TRANSPORTATION MCCOOK, COOK COUNTY, ILLINOIS 60525</p>	<p>PROJECT NO. 630-128-005</p> <p>DATE 05/06/2020</p> <p>SHEET NO. H6.03</p> <p>OF () SHEETS</p>
NO.	DATE	REMARKS																			
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CHECKED	APPROVED																				
NTP	NTP																				

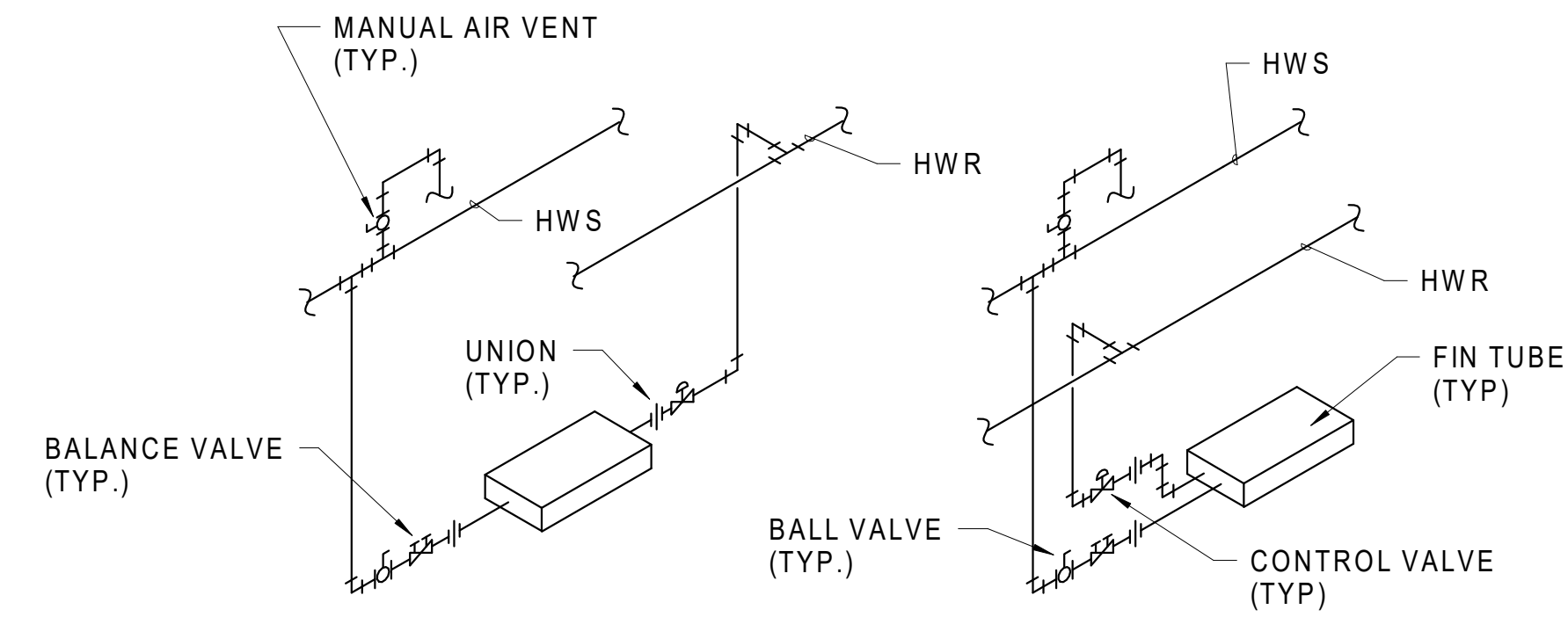
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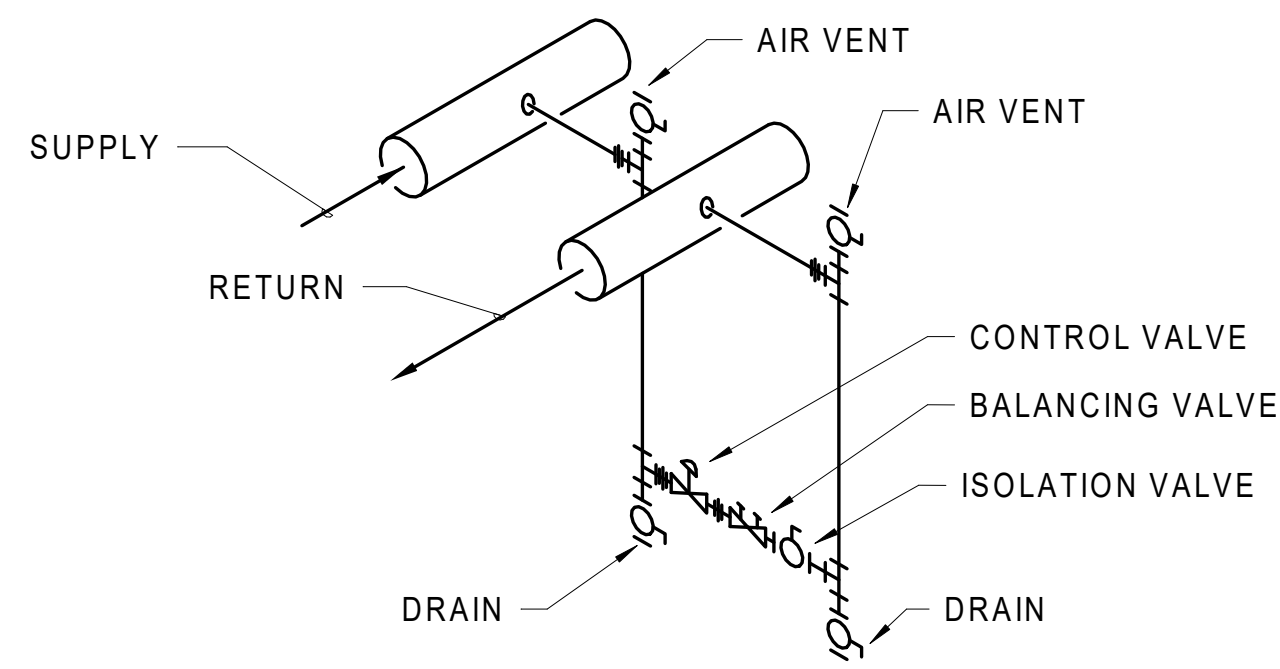
1 N.T.S. REHEAT COIL PIPING WITH 2-WAY VALVE



2 N.T.S. SUSPENDED HOT WATER HORIZONTAL PROJECTION UNIT HEATER PIPING DETAIL

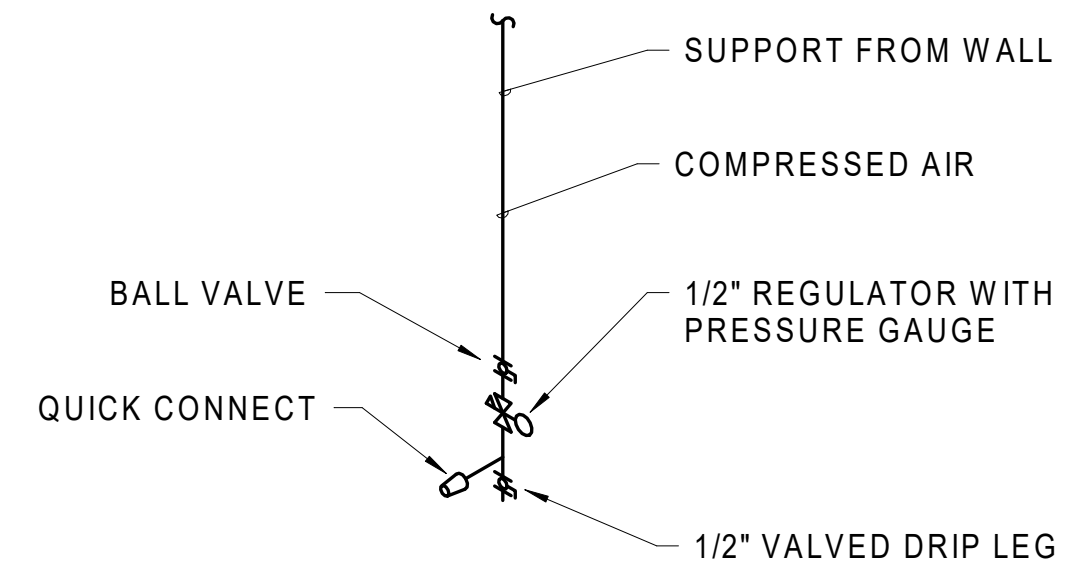


3 N.T.S. HOT WATER FIN TUBE PIPING DETAIL

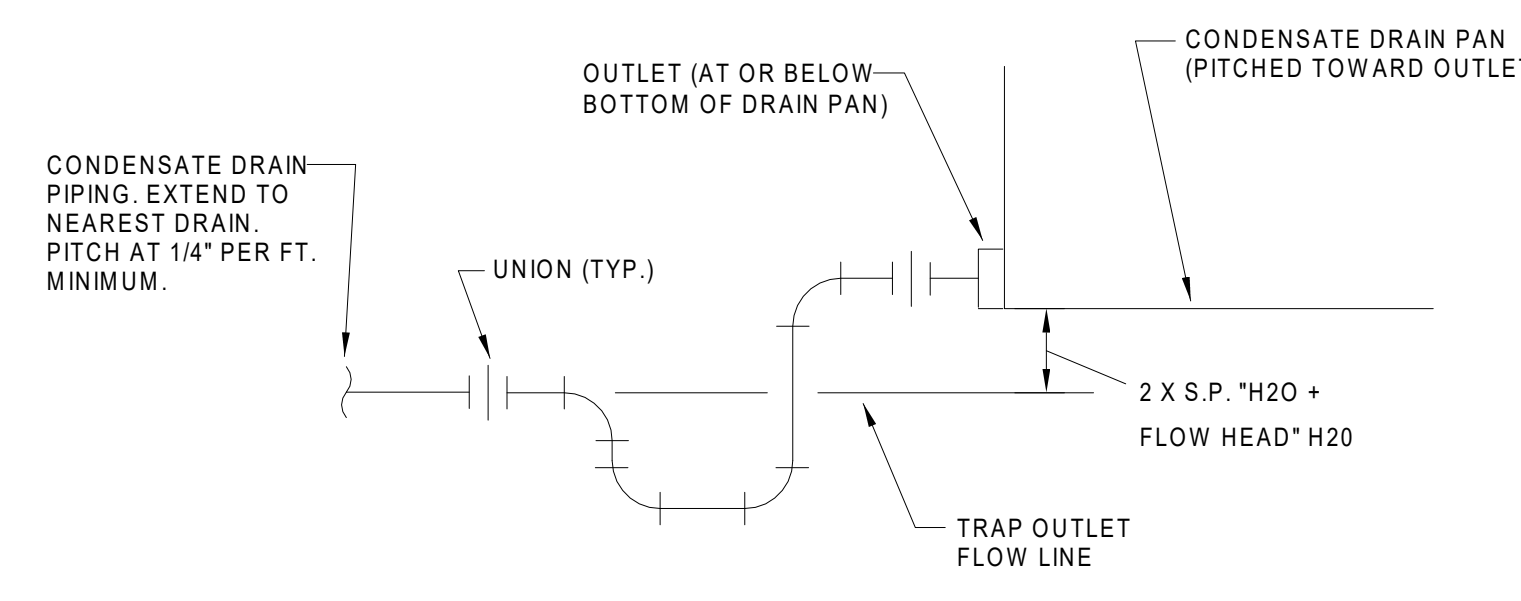


- NOTES:**
1. BYPASS PIPING AND VALVES SHALL BE SIZED TO ALLOW FOR A MINIMUM FLOW OF 12 GPM. PROVIDE 1/2" PIPING FOR BYPASS, 1/2" FOR VENT, AND 3/4" FOR DRAIN. PROVIDE SUPPORTS FOR INSTRUMENTATION AND/OR PIPING AS REQUIRED FOR RIGID INSTALLATION.
 2. PIPING SHALL BE INSTALLED SO AS TO BE SELF-VENTING. HORIZONTAL RUNS OF INSTRUMENT PIPING SHALL BE PITCHED UPWARD TOWARD POINTS OF CONNECTION

4 N.T.S. BYPASS PIPING DETAIL

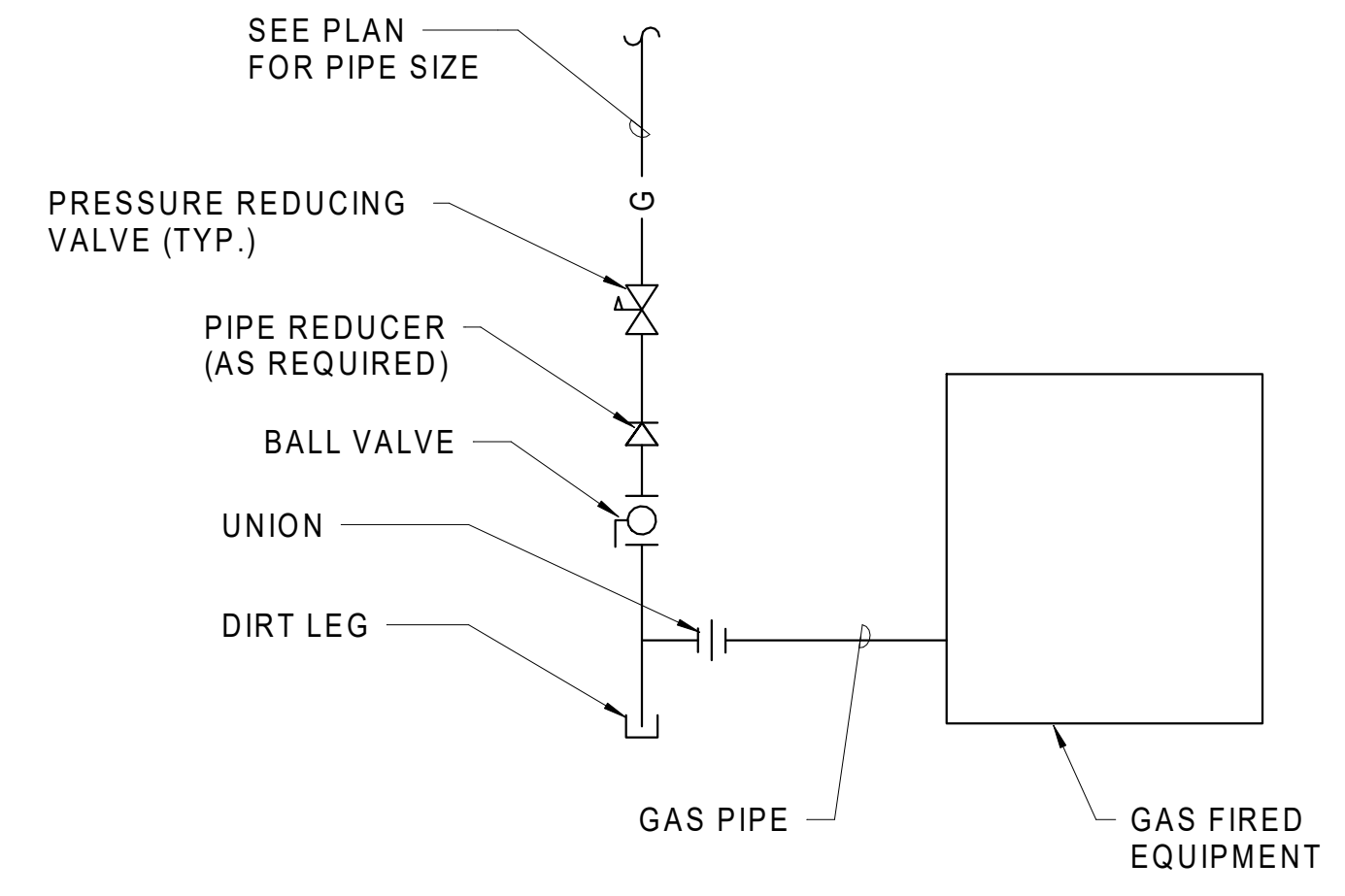


5 N.T.S. AIR OUTLET DETAIL



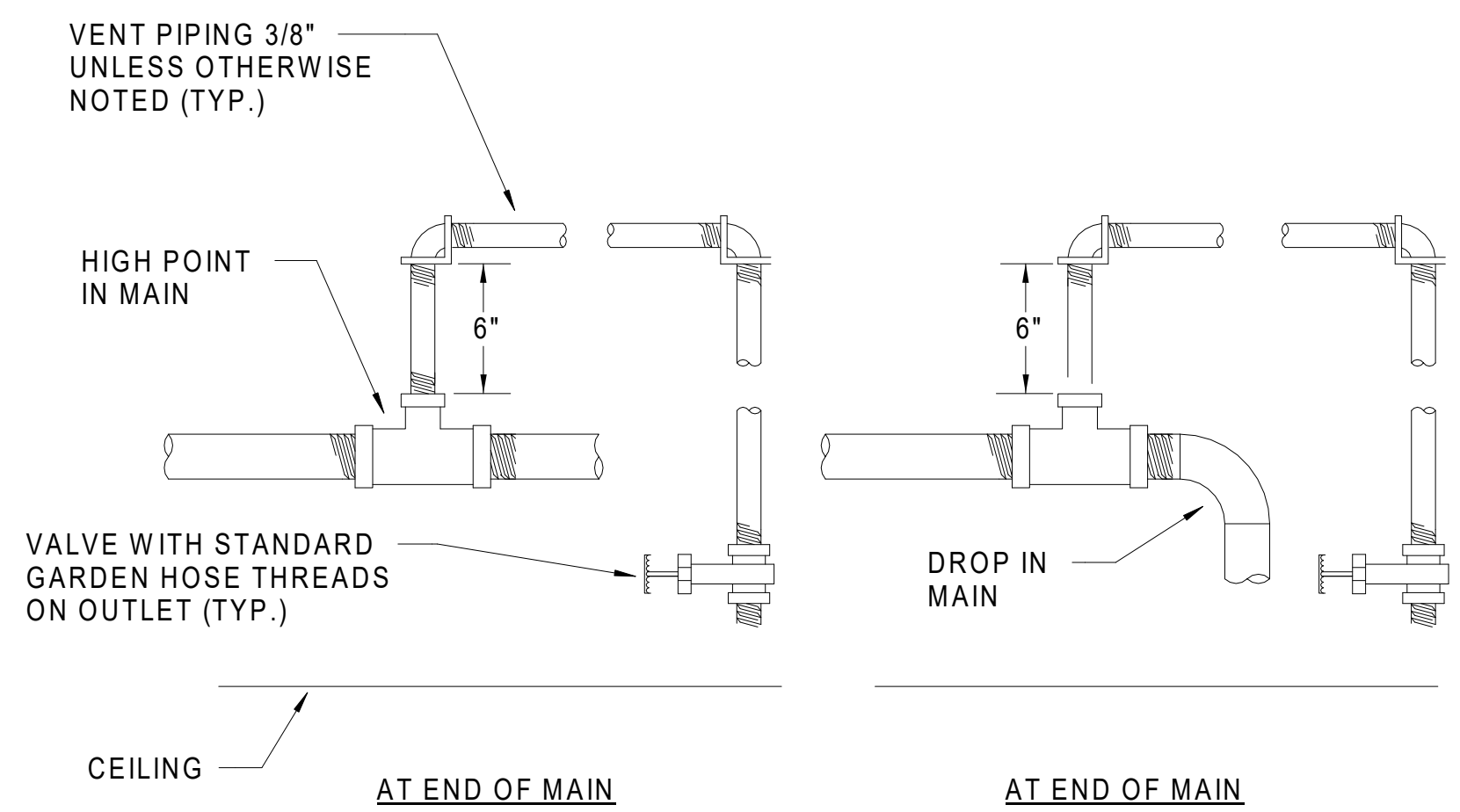
- NOTES:**
1. DRAIN PIPING CONSTRUCTED OF SCH. 40 PVC WITH SOLVENT TYPE FITTINGS OR HARD DRAWN TYPE L COPPER TUBING AND SWEAT FITTINGS.
 2. ALL DRAIN PIPING AND TRAPS TO BE INSULATED.
 3. DRAIN PIPING TO BE 1-1/2" MIN. OR LARGER AS REQUIRED TO MAINTAIN MAXIMUM PRESSURE DROP OF 1.0" W.C. AT MAX. CONDENSATE FLOW.
 4. SP=DIFFERENTIAL STATIC PRESSURE BETWEEN INTERIOR UNIT DRAIN PAN OUTLET AND EXTERNAL ATMOSPHERIC PRESSURE.

6 N.T.S. CONDENSATE DRAIN TRAP

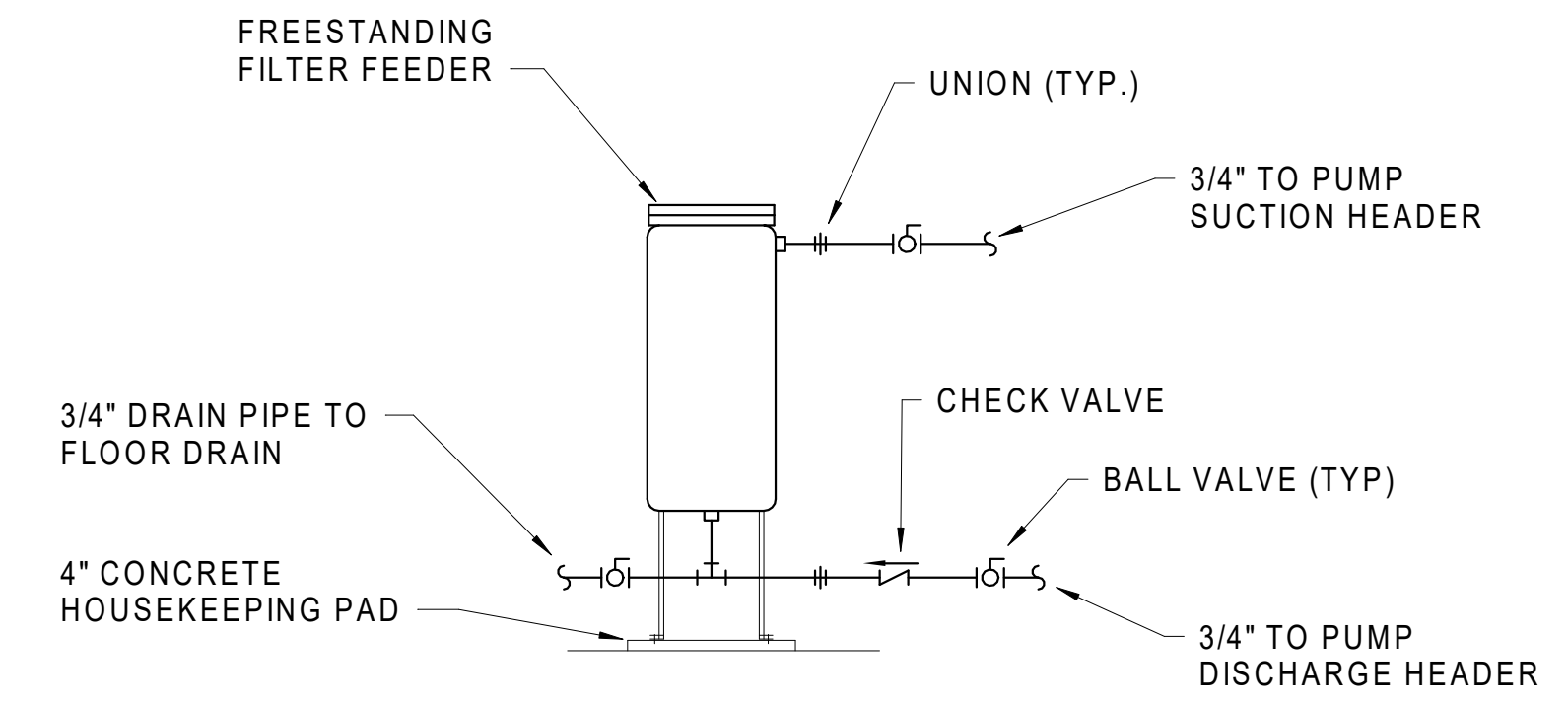


NOTE: PROVIDE FLEX CONNECTOR WHERE REQUIRED BY MANUFACTURER'S INSTALLATION INSTRUCTIONS

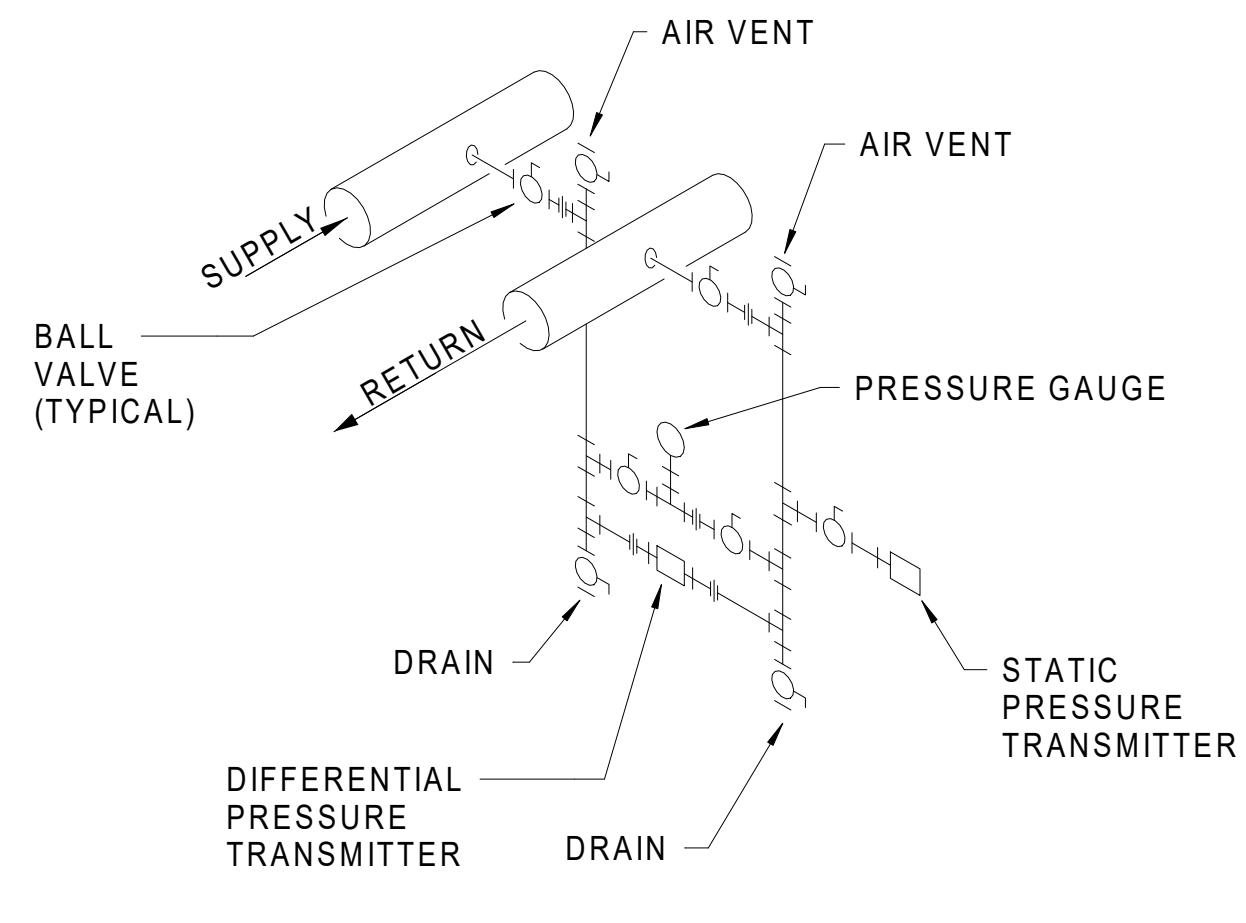
7 N.T.S. GAS PIPING SCHEMATIC



8 N.T.S. TYPICAL PIPING MAIN VENT DETAILS



9 N.T.S. CHEMICAL FILTER FEEDER DETAIL



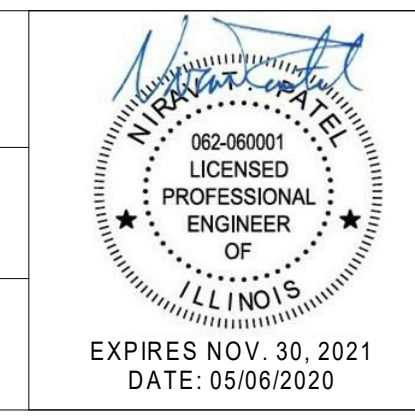
10 N.T.S. DIFFERENTIAL/STATIC PRESSURE INSTRUMENTATION PIPING

- NOTES:**
1. PIPE SHALL BE MINIMUM SCHEDULE 80 BLACK STEEL BETWEEN POINT OF CONNECTION TO EACH MAIN AND FIRST ISOLATION VALVE. SCHEDULE 40 BLACK STEEL OR COPPER PIPE MAY BE USED AFTER ISOLATION VALVES. MINIMUM SIZE = 1/2".
 2. PROVIDE SUPPORTS FOR INSTRUMENTATION AND/OR PIPING AS REQUIRED FOR RIGID INSTALLATION.
 3. PIPING SHALL BE INSTALLED SO AS TO BE SELF-VENTING. HORIZONTAL RUNS OF INSTRUMENT PIPING SHALL BE PITCHED UPWARD TOWARD POINTS OF CONNECTION.
 4. POINTS OF CONNECTION TO HORIZONTAL HYDRONIC PIPE MAINS SHALL BE ON SIDE OF THE PIPING AS SHOWN, NEITHER ON TOP (TO AVOID AIR), NOR BOTTOM (TO AVOID SEDIMENT).
 5. OPERATING RANGE OF PRESSURE GAUGE AND EACH TRANSMITTER SHALL BE SELECTED TO MAXIMIZE RESOLUTION.
 6. DP TRANSMITTER SHALL BE INSTALLED NEAR THE MOST HYDRAULICALLY REMOTE COIL. THE TRANSMITTER SHALL BE CONNECTED TO PIPING ON THE "MAIN SIDE" OF COIL ISOLATION VALVES TO ALLOW THE COIL TO BE TAKEN OUT OF SERVICE WITHOUT DISABLING THE DP TRANSMITTER.

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HVAC DETAILS

STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
 DATE 05/06/2020
 SHEET NO. **H6.04**
 OF () SHEETS

TEMPERATURE CONTROLS GENERAL NOTES

- CONTROL COMPONENTS AND EQUIPMENT ARE SHOWN IN SCHEMATIC FORM. LOCATE COMPONENTS AND EQUIPMENT AS REQUIRED TO PROVIDE MANUFACTURER RECOMMENDED SERVICE CLEARANCES.
- PROVIDE FIRE STOPPING, WITH NO EXCEPTION, WHERE FIRE AND/OR SMOKE WALLS ARE PENETRATED. SEE ARCHITECTURAL PLANS FOR FIRE RATED WALLS, FLOORS, ETC.
- COORDINATE EXACT LOCATIONS OF EQUIPMENT BETWEEN TRADES. MAINTAIN NEC REQUIRED WORKING CLEARANCE TO ALL ELECTRICAL COMPONENTS.
- WALL THERMOSTATS AND/OR TEMPERATURE SENSORS SHALL BE INSTALLED AT 48" TO 54" ABOVE FLOOR ADJACENT TO OR ABOVE LIGHT CONTROL DEVICE. DO NOT INSTALL THERMOSTATS AND/OR TEMPERATURE SENSORS ON EXTERIOR WALLS.
- UNLESS OTHERWISE NOTED, TEMPERATURE CONTROL WIRING/PIPING SHALL BE CONCEALED ABOVE CEILINGS, IN WALLS, OR INSIDE CHASES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SUPPORTING SYSTEMS FOR TEMPERATURE CONTROL WIRING/PIPING, EQUIPMENT, AND ACCESSORIES.
- SEE SPECIFICATION FOR CONTROLS AND INSTRUMENTATION REQUIREMENTS AND THE SEQUENCE OF OPERATION FOR EQUIPMENT.
- BUILDING LEVEL NETWORK (BLN) AND FLOOR LEVEL NETWORK (FLN) CABLING SHALL BE LOW CAPACITANCE 24 GA TWISTED SHIELDED PAIR WITH HARD JACKET.
- ALL CONTROLS CABLING SHALL BE PLENUM RATED.





TEMPERATURE CONTROLS LEGEND

SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
RTU-#	ROOFTOP UNIT
BLN	BUILDING LEVEL NETWORK
MAU-#	MAKEUP AIR UNI
MBC	MAIN BUILDING CONTROLLER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
TYP.	TYPICAL
UH-#	UNIT HEATER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
(T)	THERMOSTAT
(TS)	TEMPERATURE SENSOR
(CO)	CO SENSOR
(NO2)	NO2 SENSOR
(Ti)	REVERSE ACTING THERMOSTAT
(S)	WALL SWITCH/TIMER/SPEED CONTROLLER

SYSTEM ARCHITECTURE NOTES

- THE INFORMATION CONTAINED WITHIN THIS DIAGRAM IS FOR GENERAL ARRANGEMENT OF THE DIRECT DIGITAL CONTROL SYSTEM ONLY, THE ACTUAL SYSTEM ARCHITECTURE SHALL BE DESIGNED FULLY BY THE TEMPERATURE CONTROLS CONTRACTOR IN CONSULTATION WITH THE ENGINEER.
- WHEN ADDITIONAL TEMPERATURE CONTROL PANELS REQUIRING 120V ELECTRICAL POWER ARE PROVIDED, COORDINATE LOCATION WITH THE ELECTRICAL CONTRACTOR.

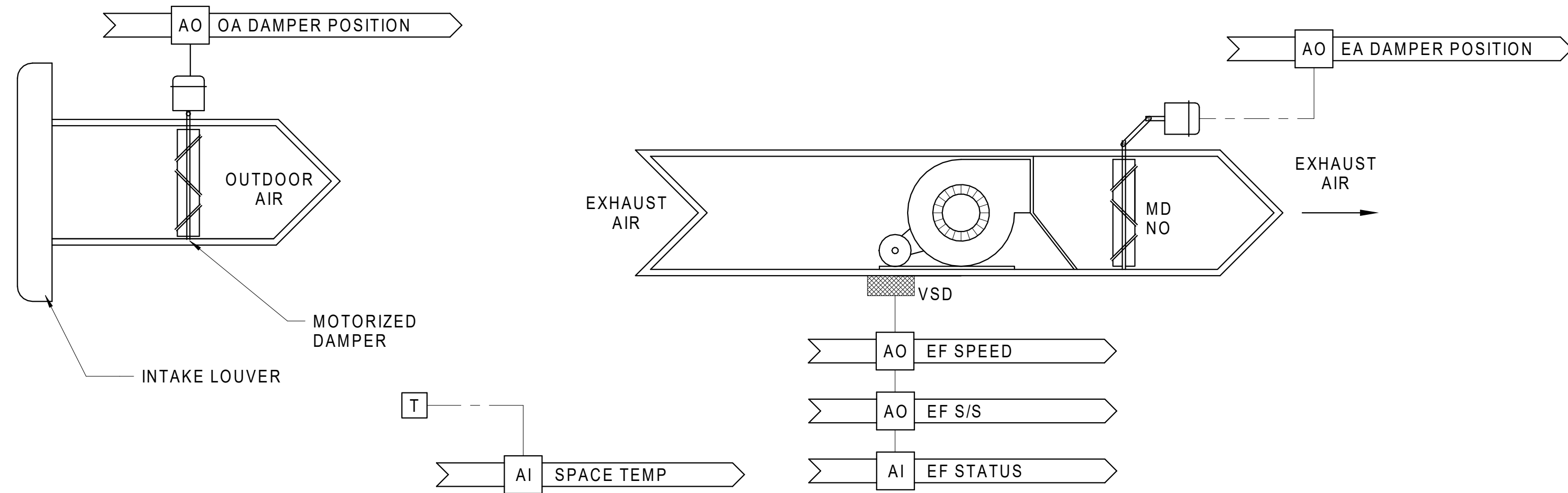
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NO.	DATE	REMARKS	TRACED	APPROVED							DATE	630-128-005	
A	5/6/20	FINAL BRIDGING DOCUMENTS	NTP	APPROVED							STEVENSON YARD MAINTENANCE FACILITY BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION) ILLINOIS DEPARTMENT OF TRANSPORTATION MCCOOK, COOK COUNTY, ILLINOIS 60525	DATE 05/06/2020 SHEET NO. TC0.01 OF () SHEETS	

POINTS LIST (PER EACH FAN)						
ADDRESS	POINT DESCRIPTOR	POINT TYPE				REMARKS
		DI	AI	DO	AO	
	EF S/S				•	
	EF STATUS		•			
	SPACE TEMP		•			
	EA DAMPER POSITION				•	
	OA DAMPER POSITION				•	

SEQUENCE OF OPERATION

- WHEN SPACE IS OCCUPIED, THE INTAKE AIR DAMPER SHALL OPEN. ONCE DAMPER POSITION IS PROVEN, THE EXHAUST AIR DAMPER SHALL OPEN AND THE EXHAUST FAN SHALL RUN.
 - WHEN THE SPACE TEMPERATURE IS ABOVE 80F (ADJ.), THE FAN SHALL RUN AT HIGH SPEED.
 - WHEN THE SPACE TEMPERATURE IS BELOW 80F (ADJ.), THE FAN SHALL RUN AT LOW SPEED.
- WHEN SPACE IS UNOCCUPIED, FAN SHALL SHUT OFF AND DAMPERS SHALL CLOSE.



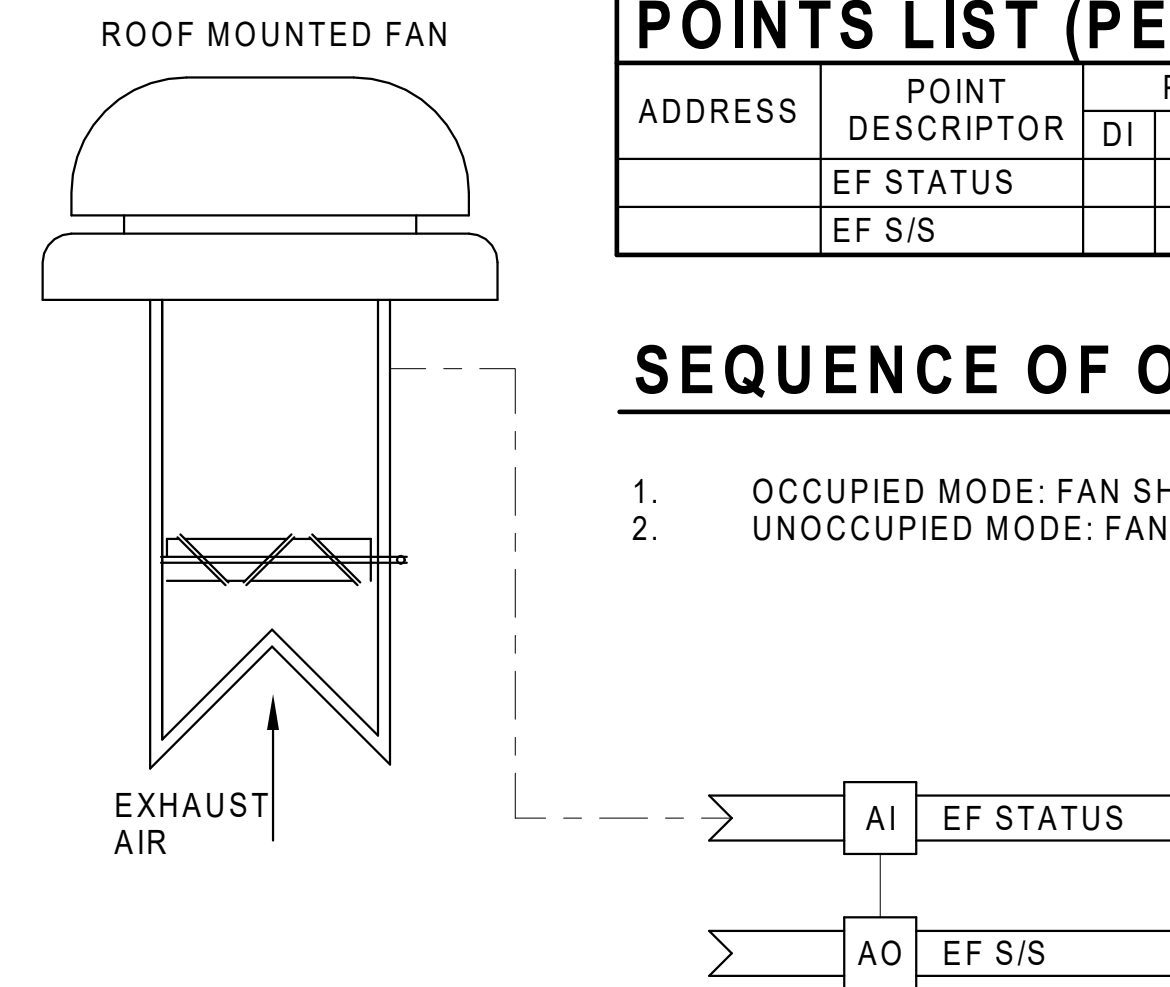
1 INLINE EXHAUST FANS: EF-1,2,3,6,9

N.T.S.

POINTS LIST (PER EACH FAN)						
ADDRESS	POINT DESCRIPTOR	POINT TYPE				REMARKS
		DI	AI	DO	AO	
	EF STATUS		•			
	EF S/S				•	

SEQUENCE OF OPERATION

- OCCUPIED MODE: FAN SHALL RUN CONTINUOUSLY.
- UNOCCUPIED MODE: FAN SHALL STOP.



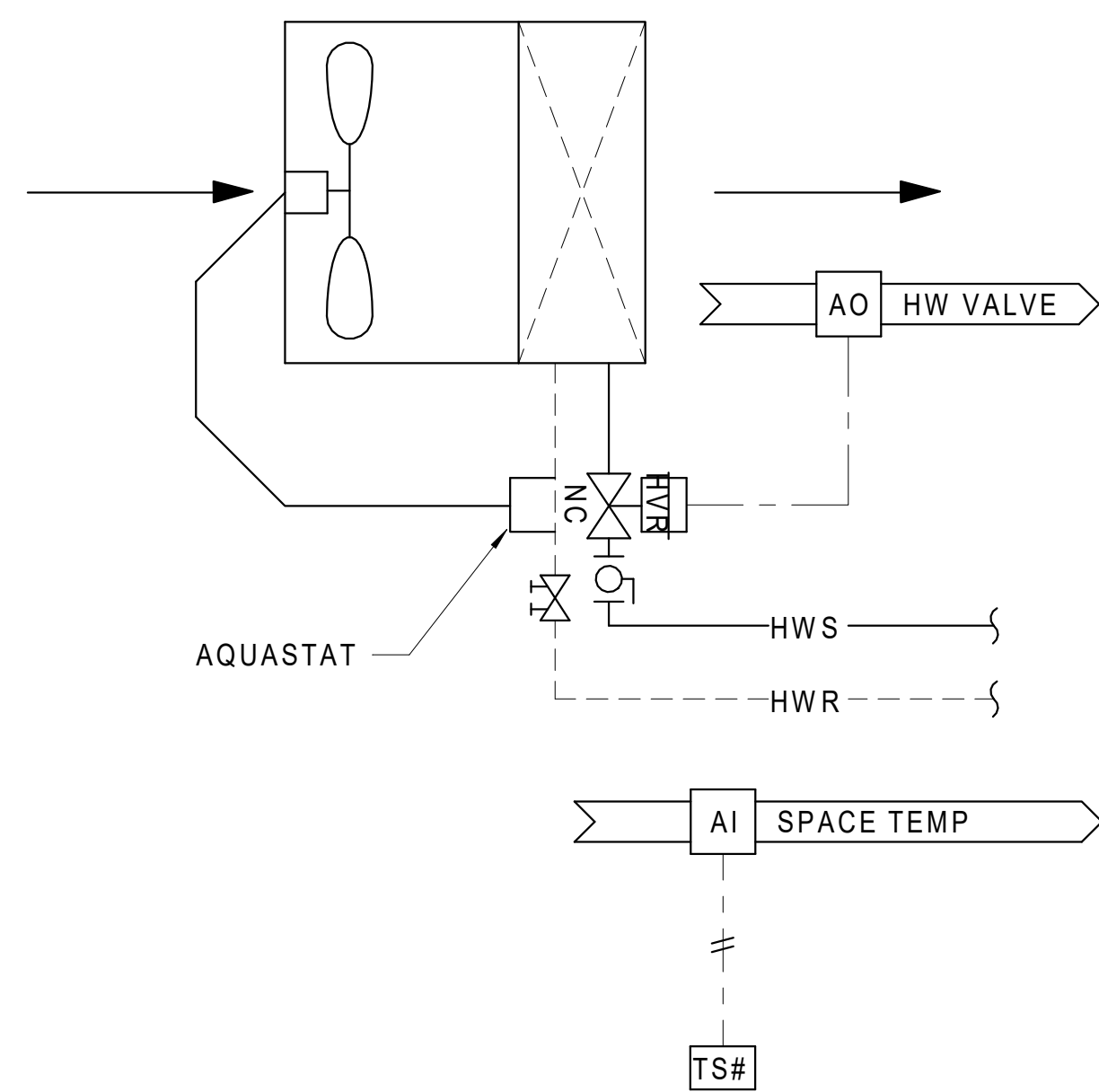
2 ROOF-MOUNTED EXHAUST FANS: EF-4,6

N.T.S.

POINTS LIST						
ADDRESS	POINT DESCRIPTOR	POINT TYPE				REMARKS
		DI	AI	DO	AO	
	SPACE TEMP		•			
	HW VALVE				•	

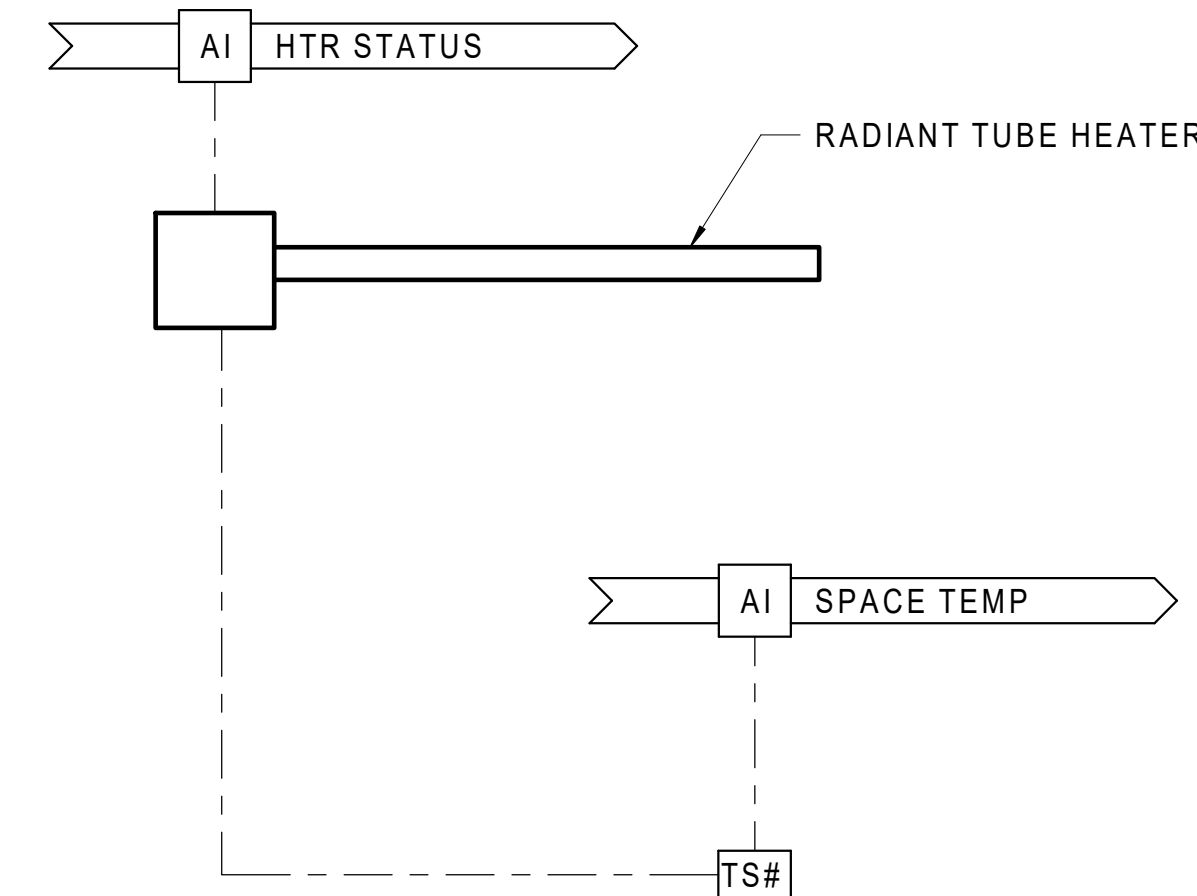
SEQUENCE OF OPERATION

- BELOW 55F OUTSIDE AIR TEMPERATURE, HOT WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN 55F (ADJ.).
- ABOVE 55F OUTSIDE AIR TEMPERATURE, THE UNIT SHALL BE OFF AND THE HW CONTROL VALVE SHALL CLOSE.
- MANUFACTURER'S STRAP-ON AQUASTAT SHALL CYCLE THE FAN ON WHEN HW VALVE OPENS.



3 HORIZONTAL HOT WATER UNIT HEATERS

N.T.S.



4 RADIANT TUBE HEATER

N.T.S.

POINTS LIST						
ADDRESS	POINT DESCRIPTOR	POINT TYPE				REMARKS
		DI	AI	DO	AO	
	SPACE TEMP		•			
	HTR STATUS				•	

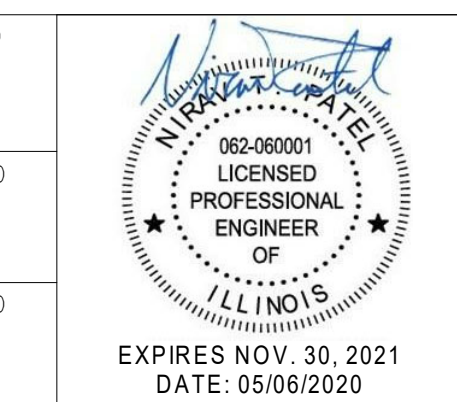
SEQUENCE OF OPERATION

- BELOW 55F OUTSIDE AIR TEMPERATURE, RADIANT TUBE HEATER SHALL MAINTAIN 55F (ADJ.).
- ABOVE 55F OUTSIDE AIR TEMPERATURE, THE UNIT SHALL BE OFF.

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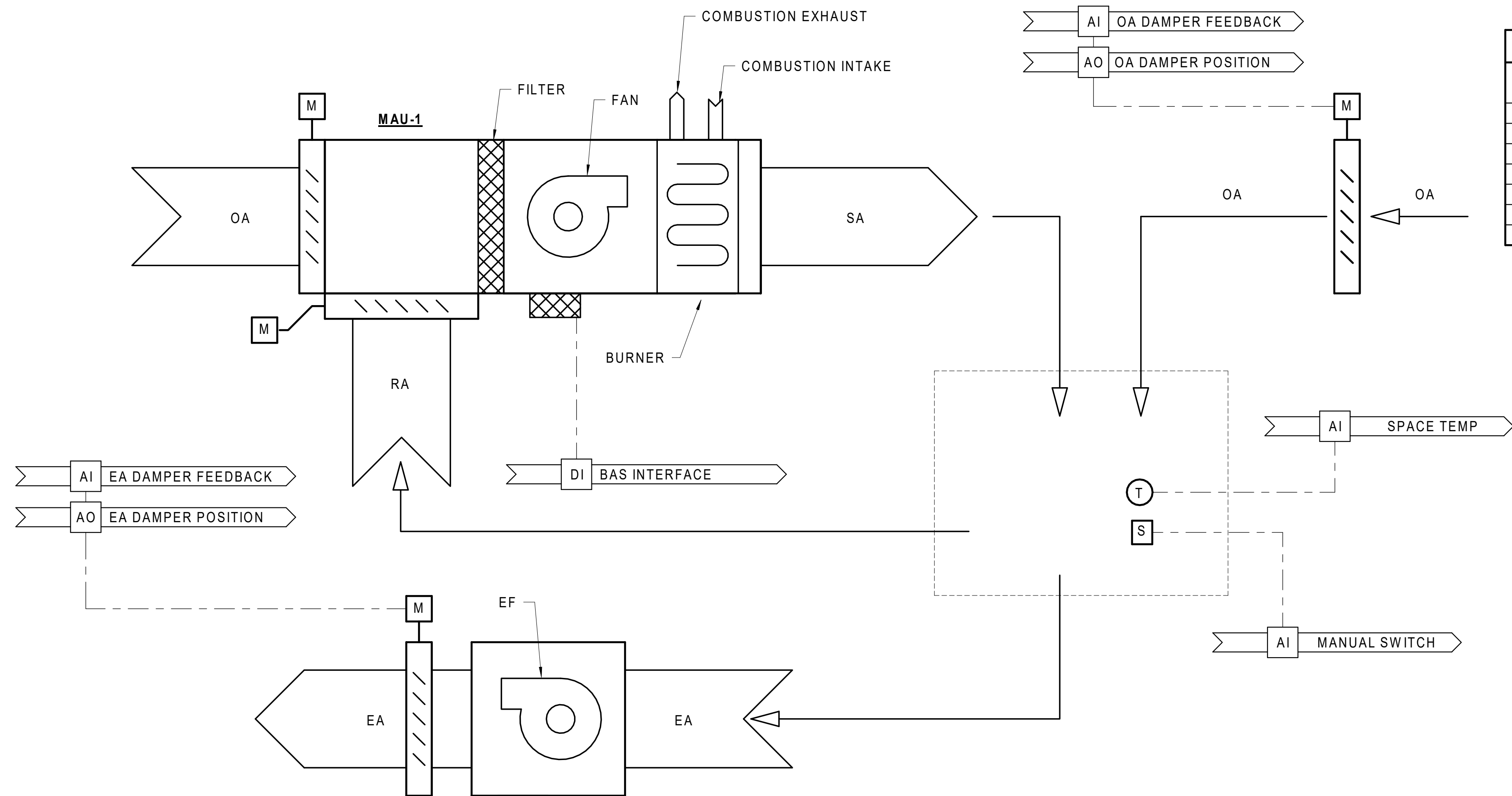


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TEMPERATURE CONTROL SCHEMATICS

STEVENS ON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
DATE 05/06/2020
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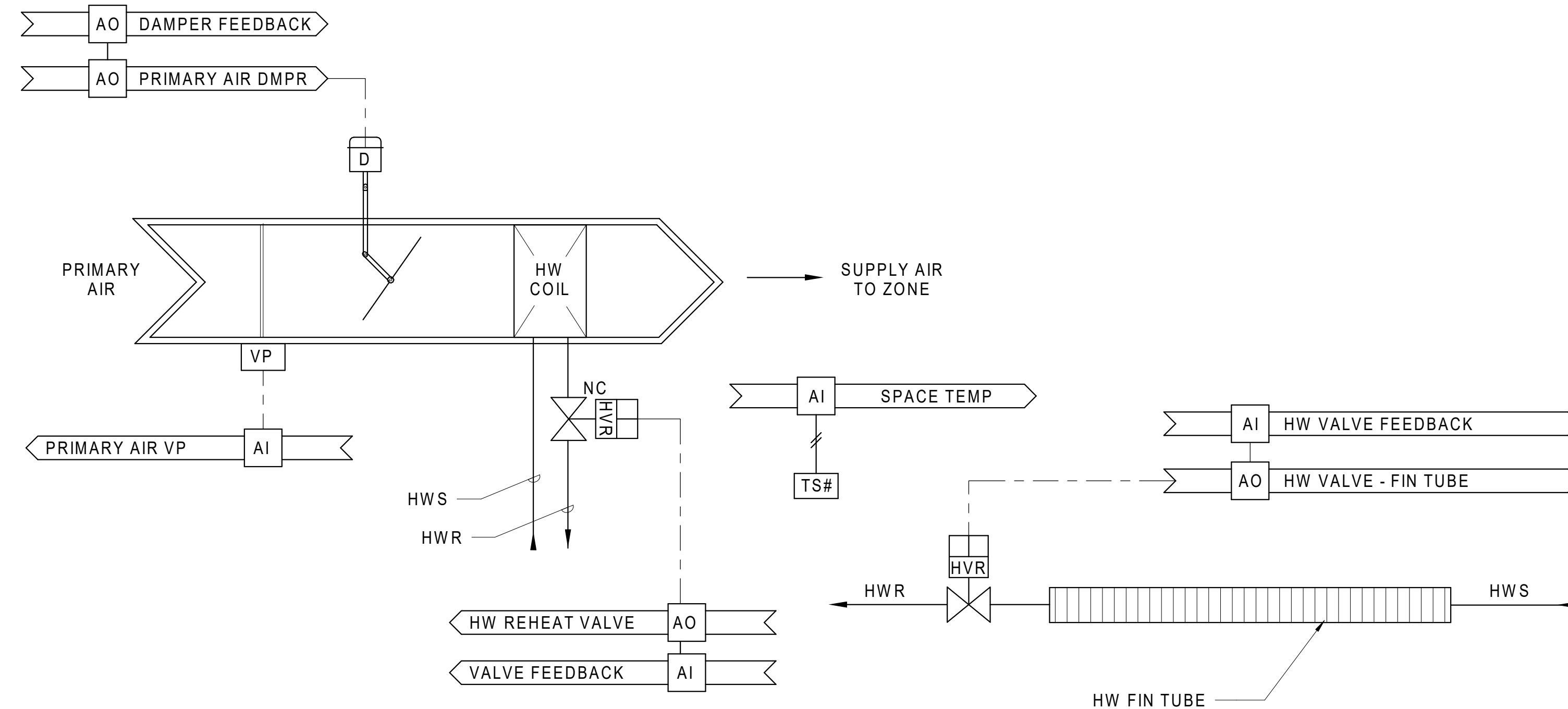
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ADDRESS	POINT DESCRIPTOR	POINT TYPE					REMARKS
		DI	AI	DO	AO	VP	
	SPACE TEMP		•				
	MANUAL SWITCH		•				
	OA DAMPER POSITION				•		
	OA DAMPER FEEDBACK		•				
	EA DAMPER POSITION				•		
	EA DAMPER FEEDBACK		•				
	BAS INTERFACE	•					

SEQUENCE OF OPERATION

- UNIT CONTROLS SHALL BE PROVIDED BY THE UNIT MANUFACTURER AND FACTORY INSTALLED. MANUFACTURER SHALL PROVIDE COMMUNICATION INTERFACE TO THE BAS WITH MINIMUM POINTS AS LISTED. THE MANUFACTURER SHALL PROVIDE THE FOLLOWING SEQUENCE OF OPERATION. THE CONTRACTOR SHALL INSTALL CONTROL ELEMENTS SHIPPED LOOSE FOR FIELD INSTALLATION.
- ALL SETPOINTS SHALL BE ADJUSTABLE THRU THE BAS.
- BAS SHALL ENABLE, DISABLE AND MODULATE DAMPERS BASED ON MANUAL SWITCH. EF-1 SHALL MODULATE BASED ON MAU-1 OA DAMPER POSITION.
 - WITH AN OUTDOOR AIR TEMPERATURE ABOVE 55F AND MANUAL SWITCH IN THE ON POSITION, THE OA DAMPER SHALL OPEN, AND THE EXHAUST FAN SHALL RUN AT DESIGN FLOW. THE MAKEUP AIR UNIT SHALL REMAIN OFF WITH DAMPERS CLOSED.
 - WITH AN OUTDOOR AIR TEMPERATURE BELOW 55F AND MANUAL SWITCH IN THE ON POSITION, THE OA DAMPER SHALL CLOSE. THE MAKEUP AIR UNIT SHALL DESIGN OUTDOOR AIR FLOW. GAS BURNER SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE OF 55F (ADJ.)
 - WITH AN OUTDOOR AIR TEMPERATURE BELOW 55F AND MANUAL SWITCH IN THE OFF POSITION, THE OA AND EA DAMPERS SHALL CLOSE AND THE EXHAUST FAN SHALL REMAIN OFF. THE MAKEUP AIR UNIT SHALL RUN IN RECIRCULATION MODE AND MAINTAIN SPACE TEMPERATURE OF 55F (ADJ.)
- WHEN THE MAKEUP AIR UNIT IS DISABLED, THE SF AND THE GAS BURNER SHALL REMAIN OFF.
- THE MAKEUP AIR UNIT SHALL FUNCTION AS STAND ALONE WITH COMMUNICATION INTERFACE TO THE BAS.

1 WASH BAY - MAU-1

N.T.S.



POINTS LIST							
ADDRESS	POINT DESCRIPTOR	POINT TYPE					REMARKS
		DI	AI	DO	AO	VP	
	SPACE TEMP		•				
	PRIMARY AIR VP		•				
	PRIMARY AIR DAMPER				•		
	HW REHEAT VALVE				•		
	HW REHEAT VALVE FEEDBACK		•				
	HW FIN TUBE VALVE				•		
	HW FIN TUBE VALVE FEEDBACK		•				
	DAMPER FEEDBACK		•				
	VALVE FEEDBACK		•				

SEQUENCE OF OPERATION

- EACH BOX SHALL HAVE INDEPENDENT OCCUPIED-UNOCCUPIED SCHEDULE AND HEATING MIN-MAX AIRFLOW AND COOLING MIN-MAX AIRFLOW.
- IN OCCUPIED COOLING MODE, THE DAMPER SHALL MODULATE BETWEEN COOLING MIN-MAX TO MAINTAIN ROOM TEMPERATURE SETPOINT. IN UN-OCCUPIED COOLING, THE SETPOINT SHALL BE 5F ABOVE THE OCCUPIED SETPOINT AND THE MIN. AIRFLOW SHALL BE ZERO AIRFLOW.
- IN OCCUPIED HEATING MODE, THE DAMPER SHALL POSITION TO HEATING AIRFLOW SETPOINT AND MODULATE THE DAMPER BETWEEN HEATING MIN-MAX TO MAINTAIN ROOM SETPOINT. IN UN-OCCUPIED MODE, THE ROOM SETPOINT SHALL BE 5F BELOW OCCUPIED AND THE AIRFLOW MIN SHALL BE ZERO WITH NO CALL FOR HEAT.
- HW FIN TUBE (IF PRESENT): ABOVE 55F OA TEMPERATURE, HW CONTROL VALVE SHALL REMAIN CLOSED. BELOW 55F OA TEMPERATURE, HEATER SHALL MODULATE FIRST ON LAST OFF WITH HW CONTROL VALVE.
- THE UNITS SHALL FUNCTION AS STAND ALONE WITH COMMUNICATION INTERFACE TO THE BAS.

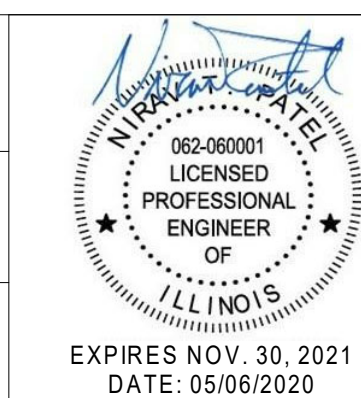
2 VAV BOX WITH REHEAT AND PERIMETER HEATING

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TEMPERATURE CONTROL SCHEMATICS

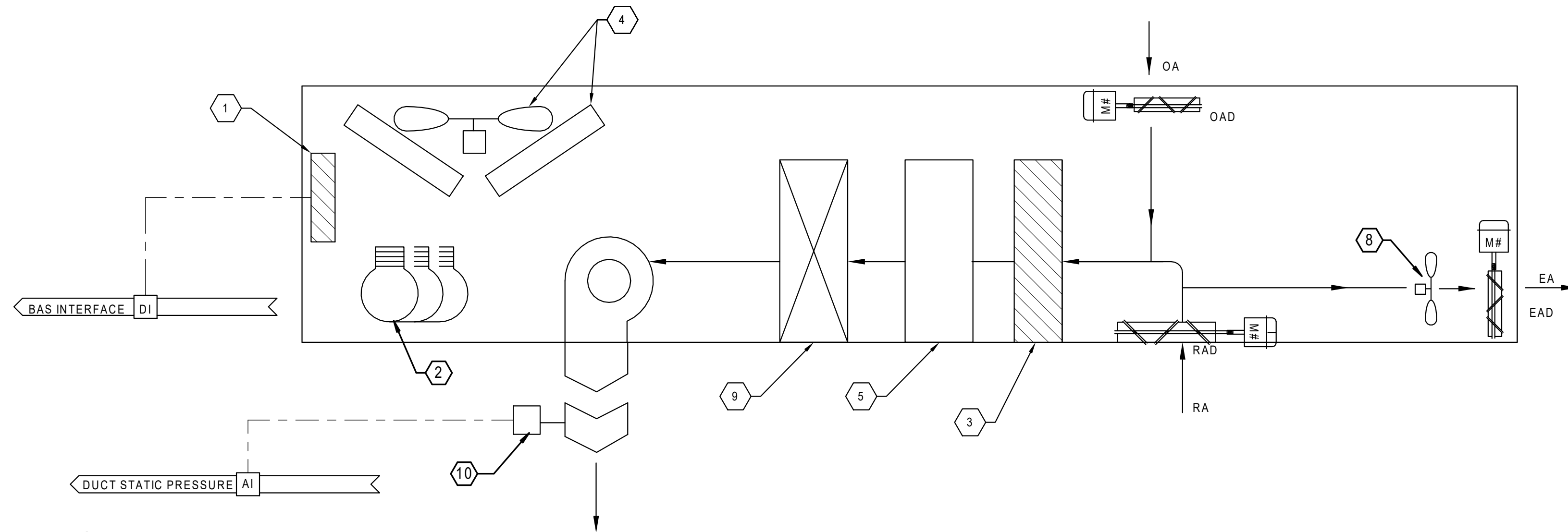
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PROJECT NO. 630-128-005
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SHEET NO. TC5.02
OF () SHEETS

POINTS LIST						
ADDRESS	POINT DESCRIPTOR	POINT TYPE				REMARKS
		DI	AI	DO	AO	
	BAS INTERFACE		•			
	DUCT STATIC PRESSURE		•			

KEYNOTES (THIS SHEET)

- UNIT CONTROL PANEL / BAS INTERFACE
- COMPRESSORS
- AIR FILTER
- CONDENSER FAN AND COILS
- GAS BURNER
- SUPPLY FAN
- PACKAGED ROOFTOP UNIT
- POWERED EXHAUST
- DX COOLING COIL
- DUCT STATIC PRESSURE SENSOR



1 TC SCHEMATIC: RTU-1

N.T.S.

POINTS LIST						
ADDRESS	POINT DESCRIPTOR	POINT TYPE				REMARKS
		DI	AI	DO	AO	
	BAS INTERFACE		•			
	SPACE TEMPERATURE SENSOR		•			
	DUST COLLECTOR STATUS		•			
	DUST COLLECTOR SIS				•	

KEYNOTES (THIS SHEET)

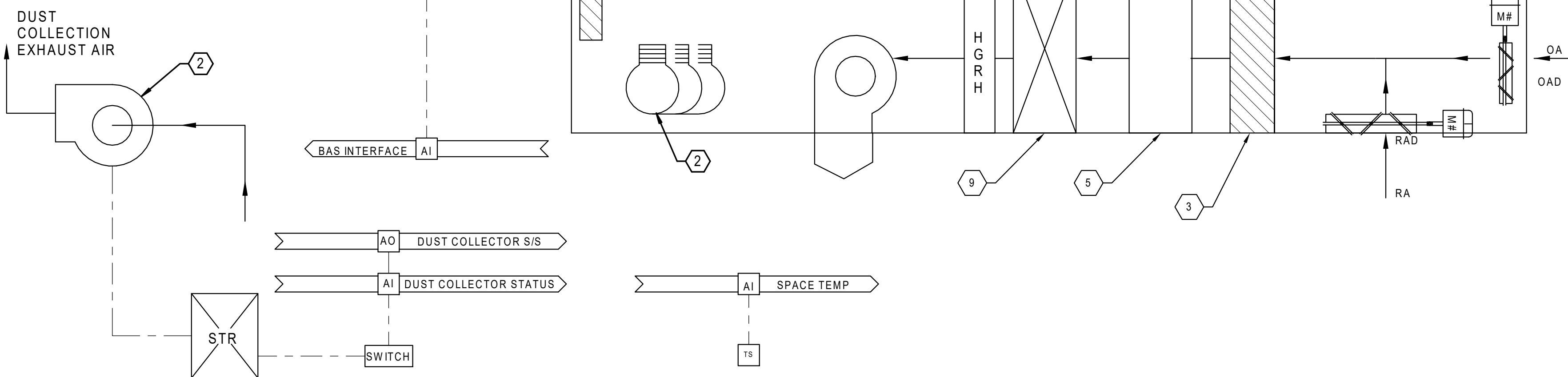
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- COMPRESSORS
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- CONDENSER FAN AND COILS
- GAS BURNER
- SUPPLY FAN
- PACKAGED ROOFTOP UNIT
- HOT GAS REHEAT
- DX COOLING COIL
- DUST COLLECTOR FAN

SEQUENCE OF OPERATION

- UNIT CONTROLS SHALL BE PROVIDED BY THE UNIT MANUFACTURER AND FACTORY INSTALLED. MANUFACTURER SHALL PROVIDE COMMUNICATION INTERFACE TO THE BAS WITH MINIMUM POINTS AS LISTED. THE MANUFACTURER SHALL PROVIDE THE FOLLOWING SEQUENCE OF OPERATION. THE CONTRACTOR SHALL INSTALL CONTROL ELEMENTS SHIPPED LOOSE FOR FIELD INSTALLATION.
- ALL SETPOINTS SHALL BE ADJUSTABLE THRU THE BAS.
- OCCUPIED MODE, DUST COLLECTION EXHAUST SYSTEM OFF:
 - SF SHALL RUN CONTINUOUSLY.
 - A SA STATIC PRESSURE HIGH LIMIT SHALL PREVENT THE UNIT FROM OVERPRESSURIZING THE SA DUCTWORK. SF SHALL BE SHUT DOWN ON HIGH LIMIT AND RESTART AUTOMATICALLY 3 TIMES. AFTER 3 RE-STARTS, THE UNIT SHALL BE SHUT DOWN AND REQUIRE MANUAL RE-START.
 - THE EF SHALL BE ENABLED WHEN THE SF RUNS AND/OR THE MIXED AIR ECONOMIZER IS ENABLED.
 - THE OA DAMPER SHALL OPEN TO MINIMUM POSITION, RA DAMPER SHALL BE OPEN AND EA DAMPER SHALL BE CLOSED UNLESS MIXED AIR ECONOMIZER IS ENABLED.
 - IN COOLING MODE, BELOW 55 DEG. OA TEMPERATURE, ENABLE MIXED AIR ECONOMIZER. RA DAMPER AND OA DAMPER SHALL MODULATE TO MAINTAIN DISCHARGE AIR SETPOINT (55F). DISCHARGE AIR SETPOINT SHALL BE RESET UPWARDS (60F MAX.) AS SPACE TEMPERATURE SETPOINT IS MET. ABOVE 55 DEG. OA TEMPERATURE, MULTIPLE REFRIGERATION COMPRESSORS SHALL STAGE ON AND OFF TO MAINTAIN THE DISCHARGE AIR SETPOINT (55F). DISCHARGE AIR SETPOINT SHALL BE RESET UPWARDS (60F MAX.)
 - IN HEATING MODE, GAS CONTROL VALVE/BURNER SHALL MODULATE WITH FAN TO MAINTAIN DISCHARGE SET POINT PER UNIT CONTROLLER (95 - MAXIMUM). MIXED AIR LOW LIMIT CONTROLLER SHALL PREVENT DISCHARGE AIR TEMPERATURE FROM FALLING BELOW SETPOINT BY RESETTING RA DAMPER AND OA DAMPER POSITION.
- UNOCCUPIED MODE:
 - ABOVE 55 DEG. OA TEMPERATURE, THE RTU SHALL BE OFF.
 - BELOW 55 DEG OA TEMPERATURE, OA DAMPER SHALL BE CLOSED, RA DAMPER SHALL BE OPEN. THE SF SHALL CYCLE ON TO MAINTAIN UNOCCUPIED SPACE TEMPERATURE SETPOINT WITH ENERGY RECOVERY WHEEL AND/OR GAS VALVE AND BURNER.
- DUST COLLECTION EXHAUST SYSTEM ON:
 - THE DUST COLLECTION SYSTEM SHALL BE ACTIVATED WITH A MANUAL SWITCH.
 - WHEN THE SWITCH IS IN THE ON POSITION:
 - THE DUST COLLECTION SYSTEM SHALL RUN AT THE DESIGN FLOW RATE.
 - THE MAU-2 OUTDOOR AIR DAMPER SHALL OPEN TO 100% OPEN, THE MAU-2 RETURN DAMPER SHALL SHUT.
 - MAU-2 SHALL SUPPLY FULL MAKEUP AIR FLOW RATE. IN HEATING MODE, BURNER SHALL MODULATE TO MAINTAIN ROOM SETPOINT. IN COOLING MODE, THE COMPRESSORS AND HOT GAS REHEAT CONTROL SHALL MODULATE TO MAINTAIN ROOM SETPOINT.

2 TC SCHEMATIC: MAU-2

N.T.S.



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REVISIONS		
NO.	DATE	REMARKS
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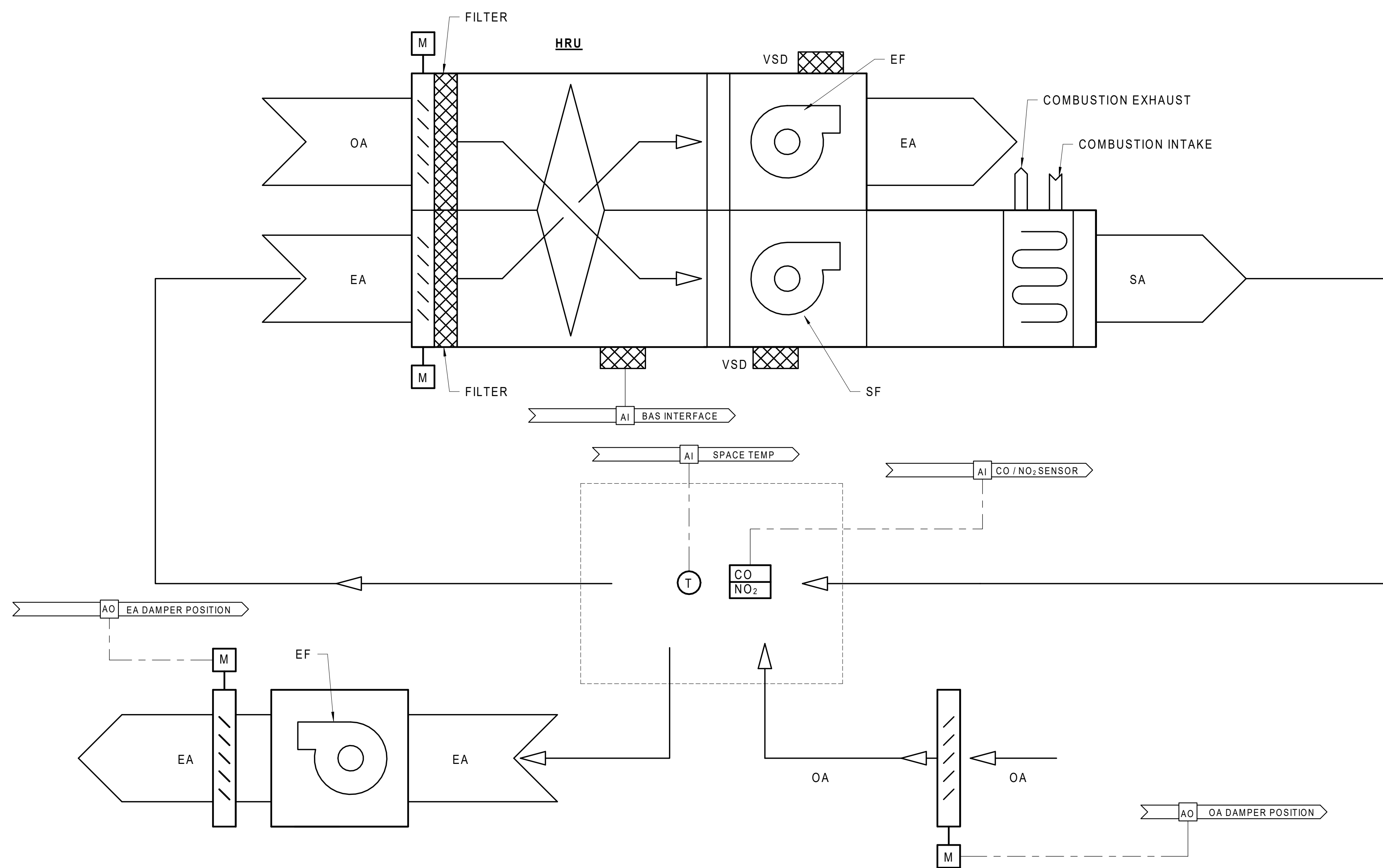


State of Illinois
JB PRITZKER, GOVERNOR
 Illinois Capital Development Board

TEMPERATURE CONTROL SCHEMATICS

STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
DATE 05/06/2020
SHEET NO. TC5.03
OF () SHEETS



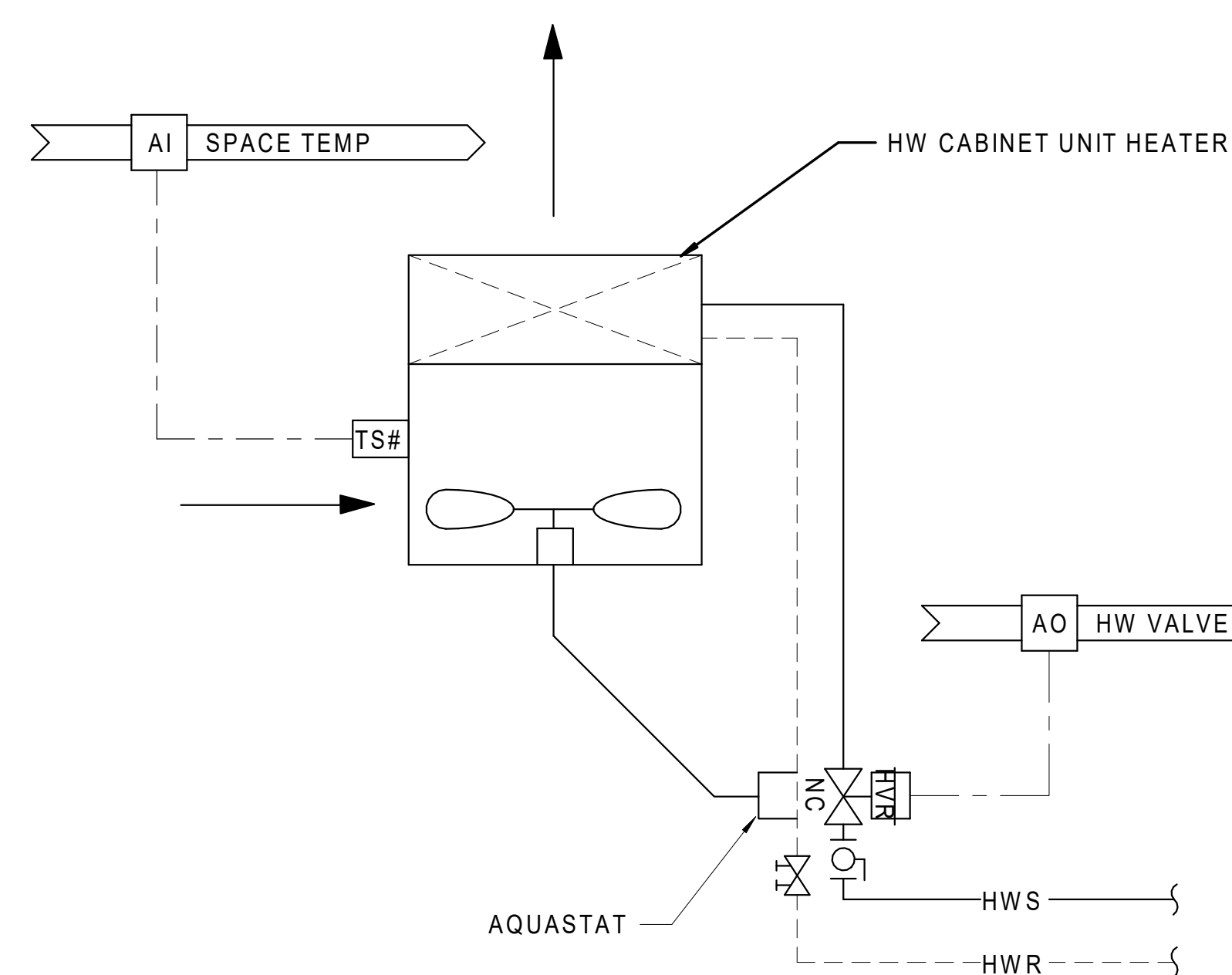
SEQUENCE OF OPERATION

1. UNIT CONTROLS SHALL BE PROVIDED BY THE UNIT MANUFACTURER AND FACTORY INSTALLED. MANUFACTURER SHALL PROVIDE COMMUNICATION INTERFACE TO THE BAS WITH MINIMUM POINTS AS LISTED. THE MANUFACTURER SHALL PROVIDE THE FOLLOWING SEQUENCE OF OPERATION. THE CONTRACTOR SHALL INSTALL CONTROL ELEMENTS SHIPPED LOOSE FOR FIELD INSTALLATION.
2. ALL SETPOINTS SHALL BE ADJUSTABLE THRU THE BAS.
3. BAS SHALL ENABLE, DISABLE AND MODULATE DAMPERS BASED ON OCCUPANCY SCHEDULE FOR HRU OR INPUT INFORMATION FROM CO OR NO2 SENSORS.
4. BAS SHALL ENABLE OR DISABLE UNIT BASED ON OCCUPANCY AND AND CO/NO2 WARNING OR ALARM FOR MAU-1.
 - A. WITH NO CO OR NO2 WARNING/ALARM, THE OUTDOOR AIR DAMPER SHALL OPEN, AND THE EXHAUST FAN SHALL RUN AT DESIGN FLOW. THE HEAT RECOVERY UNIT SHALL REMAIN OFF.
 - B. DURING CO/NO2 WARNING/ALARM, THE HEAT RECOVERY UNIT OA DAMPER SHALL MODULATE BASED ON CO AND NO2 LEVELS. IN WARNING MODE THE HEAT RECOVERY UNIT SHALL RUN AT 75% DESIGN FLOW. IN ALARM MODE, THE HEAT RECOVERY UNIT SHALL RUN AT 100% DESIGN FLOW.
 - a. THE SYSTEM SHALL OPERATE IN TWO LEVELS FOR CO/NO2 MONITORING.
 - WARNING MODE. WHEN EITHER IS TRUE:
 1. CO IS DETECTED ABOVE 25 PPM
 2. NO2 IS DETECTED ABOVE 3 PPM
 - ALARM MODE. WHEN EITHER IS TRUE:
 1. CO IS DETECTED ABOVE 35 PPM
 2. NO2 IS DETECTED ABOVE 6 PPM

POINTS LIST							
ADDRESS	POINT DESCRIPTOR	POINT TYPE					REMARKS
		DI	AI	DO	AO	VP	
	BAS INTERFACE		•				
	SPACE TEMPERATURE SENSOR		•				
	CO/NO2 SENSOR		•				
	OA DAMPER POSITION				•		
	EA DAMPER POSITION				•		

HEAT RECOVERY UNITS

1 N.T.S.



POINTS LIST							
ADDRESS	POINT DESCRIPTOR	POINT TYPE					REMARKS
		DI	AI	DO	AO	VP	
	SPACE TEMP		•				
	HW VALVE				•		

SEQUENCE OF OPERATION

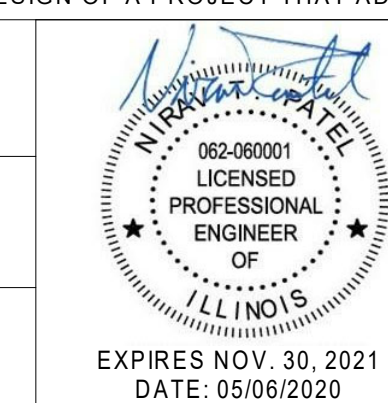
1. BELOW 55F OUTSIDE AIR TEMPERATURE, HOT WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN 55F (ADJ.).
2. ABOVE 55F OUTSIDE AIR TEMPERATURE, THE UNIT SHALL BE OFF AND THE HW CONTROL VALVE SHALL CLOSE.
3. MANUFACTURER'S STRAP-ON AQUASTAT SHALL CYCLE THE FAN ON WHEN HW VALVE OPENS.

CABINET UNIT HEATER

2 N.T.S.

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TEMPERATURE CONTROL SCHEMATICS

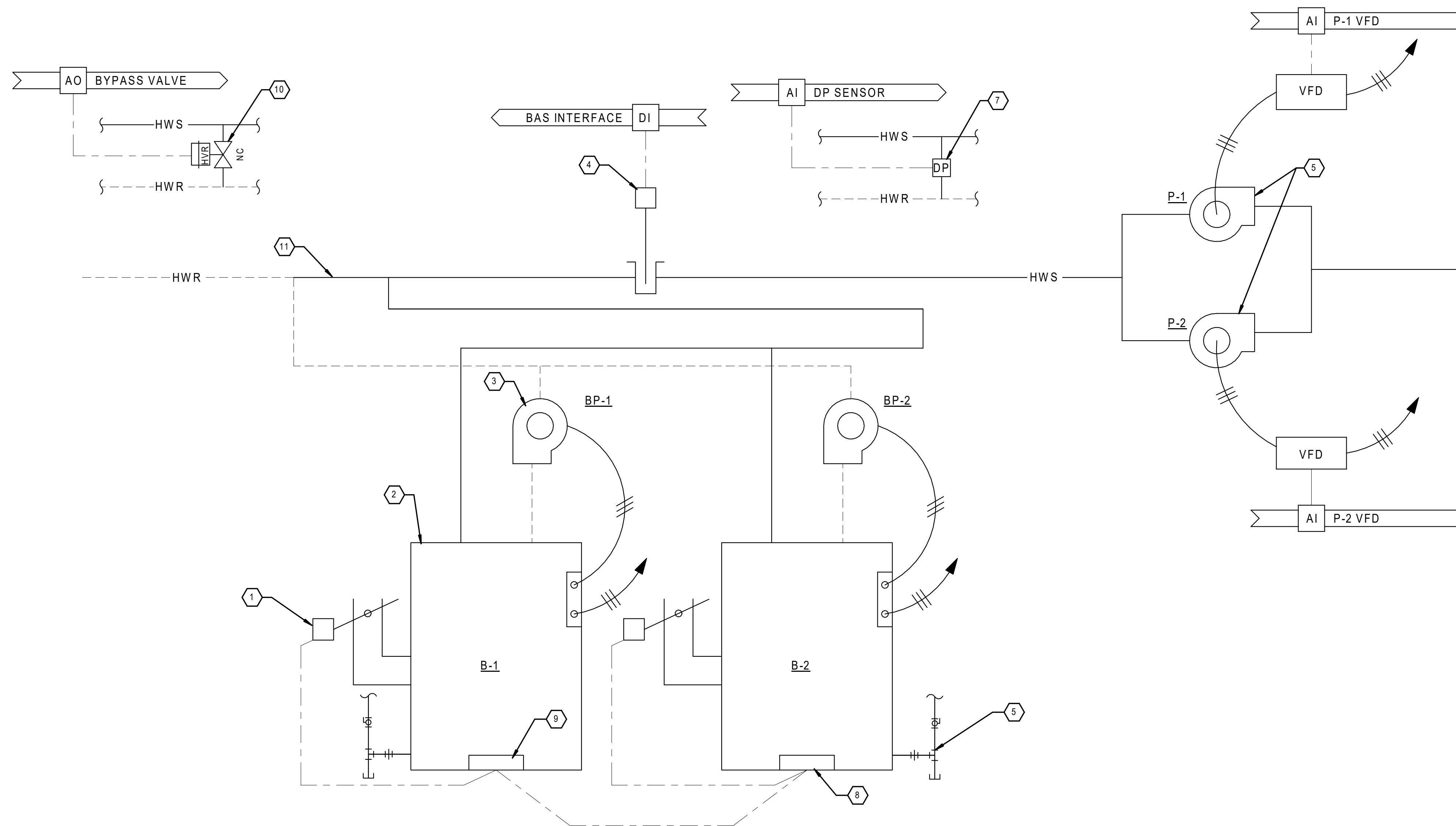
STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO.
630-128-005

DATE
05/06/2020

SHEET NO.
TC5.04

OF () SHEETS



KEYNOTES

1. COMB. DAMPER (TYP.).
2. MODULAR HW BOILER (TYP.).
3. BOILER PUMP POWER/CONTROL (TYP.).
4. SYSTEM HWS TEMPERATURE SENSOR.
5. NATURAL GAS CONNECTION (TYP.).
6. SYSTEM PUMPS.
7. DIFFERENTIAL PRESSER SENSOR.
8. MEMBER CONFIGURED PANELS.
9. MASTER CONFIGURED PANEL (INTERFACE WITH BAS).
10. CONTROL VALVE.
11. DE-COUPLER/Common PIPE.

POINTS LIST

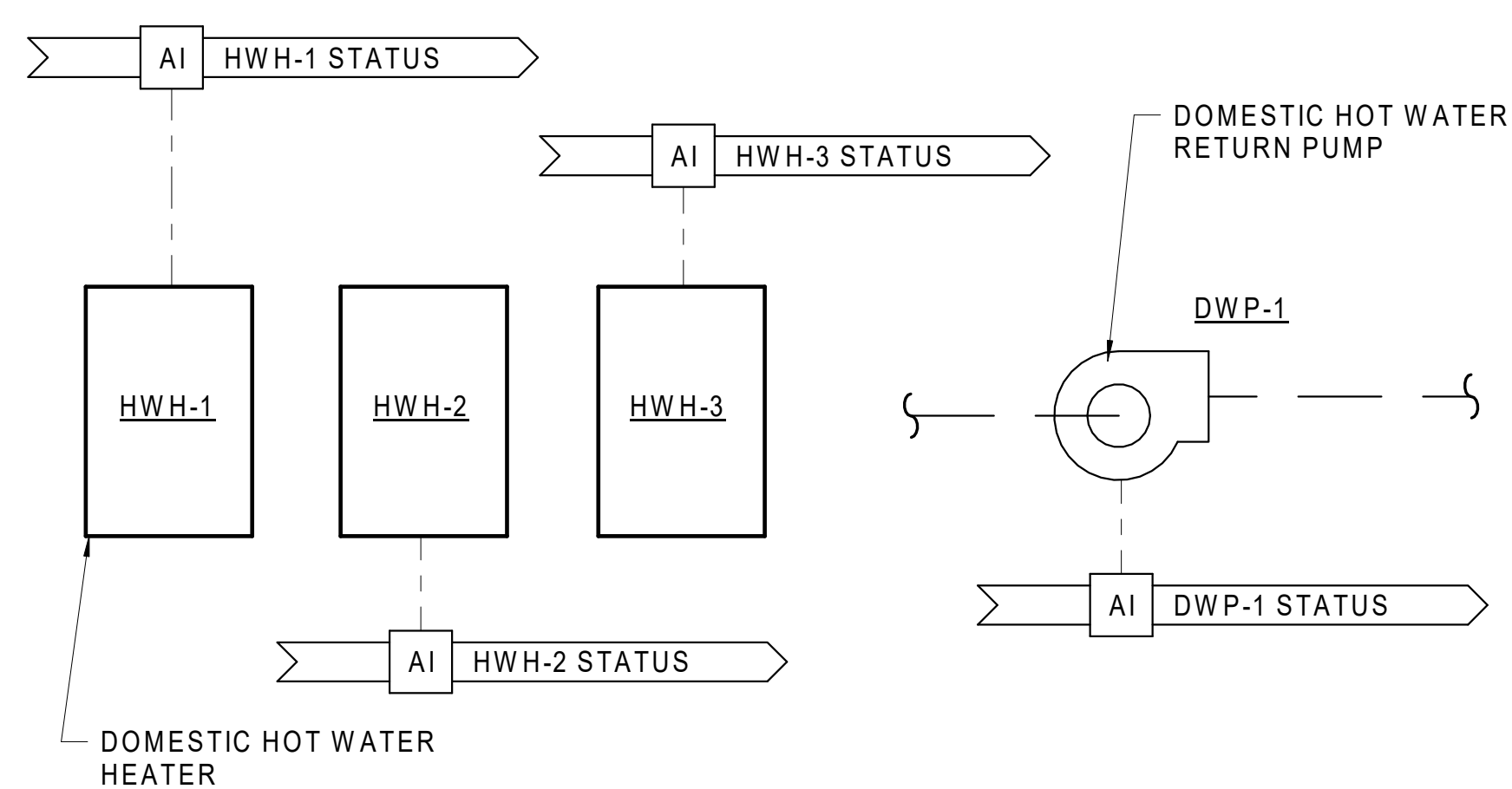
ADDRESS	POINT DESCRIPTOR	POINT TYPE					REMARKS
		DI	AI	DO	AO	VP	
	BAS INTERFACE		•				
	P-1 VFD			•			
	P-2 VFD			•			
	DP SENSOR		•				
	BYPASS VALVE				•		

SEQUENCE OF OPERATION

1. BOILER AND BOILER PUMP CONTROLS SHALL BE PROVIDED BY THE UNIT MANUFACTURER AND INSTALLED AT THE FACTORY AND IN THE FIELD. MANUFACTURER SHALL PROVIDE COMMUNICATION INTERFACE TO THE BAS WITH MINIMUM POINTS AS LISTED. THE MANUFACTURER SHALL PROVIDE THE FOLLOWING SEQUENCE OF OPERATION. THE CONTRACTOR SHALL INSTALL CONTROL ELEMENTS SHIPPED LOOSE FOR FIELD INSTALLATION.
2. ALL SETPOINTS SHALL BE ADJUSTABLE THRU THE BAS.
3. THE BOILER CONTROLS SHALL START BOILERS IN SEQUENCE TO MEET THE SYSTEM HWS TEMPERATURE SENSOR SETPOINT (120F ADJ.). THE BOILER CONTROLS SHALL BE ENABLED BY THE BAS. THE HW SYSTEM SHALL BE ENABLED AT ALL TIMES.
 - A. WHEN EACH BOILER IS STARTED, THE CORRESPONDING BOILER PUMP SHALL START AND THE BOILER COMBUSTION AIR DAMPER SHALL OPEN.
 - B. ONE BOILER CONTROL PANEL SHALL HAVE THE BAS COMMUNICATION INTERFACE AND BE CONFIGURED AS THE MASTER. THE OTHER BOILER SHALL BE CONFIGURED AS A "MEMBER BOILER".
 - C. THE BOILER CONTROL SYSTEM SHALL HAVE HWS TEMPERATURE RESET BASED ON ADJUSTABLE SCHEDULE. OA SHALL BE COMMUNICATED FROM THE BAS RATHER THAN A DEDICATED SENSOR FROM THE BOILER CONTROLS.
4. THE HW PUMPS SHALL BE ENABLED WHENEVER THE BOILER CONTROLS ARE ENABLED. THE PUMPS SHALL BE CONFIGURED LEAD-LAG. PUMPS STATUS OF LEAD AND LAG PUMP SHALL BE MONITORED BY CURRENT SENSING RELAYS.
 - A. THE LEAD PUMP SHALL RUN CONTINUOUSLY WHEN ENABLED. THE VARIABLE SPEED DRIVE SHALL MODULATE PUMP SPEED TO MAINTAIN HW SYSTEM DIFFERENTIAL PRESSURE.
 - B. IF DIFFERENTIAL PRESSURE IS NOT MAINTAINED OR IF THE LEAD PUMP FAILS, THE LAG PUMP SHALL START AND THE LEAD PUMP SHALL STOP.
5. CONTROL VALVE ASSOCIATED WITH THE BYPASS PUMPING SHALL BE NORMALLY CLOSED. WHEN THE PUMP DRIVE SPEED FOR PUMPS, P-1 AND P-2 IS APPROACHING 15% THE VALVE SHALL OPEN AND ALLOW FLOW THRU THE BYPASS PIPING. WHEN THE DRIVE SPEED REACHES 15% OR HIGHER THE VALVE SHALL CLOSE.

1 MODULAR HW BOILER SYSTEM

N.T.S.



POINTS LIST

ADDRESS	POINT DESCRIPTOR	POINT TYPE					REMARKS
		DI	AI	DO	AO	VP	
	HWH-1 STATUS		•				
	HWH-2 STATUS		•				
	HWH-3 STATUS		•				
	DWP-1 STATUS		•				

SEQUENCE OF OPERATION

1. BAS SHALL MONITOR SYSTEM STATUS

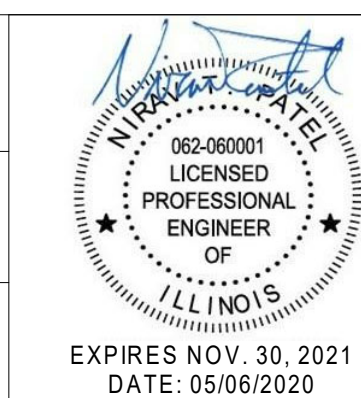
2 DOMESTIC HOT WATER SYSTEM

N.T.S.

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TEMPERATURE CONTROL SCHEMATICS

STEVENS ON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
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PROJECT NO. 630-128-005
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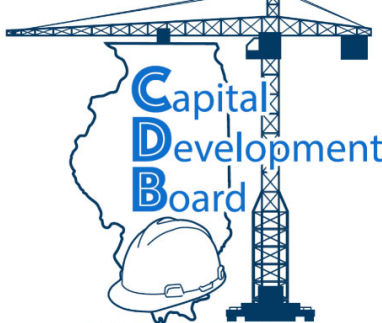
FIRE PROTECTION SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
∅	DIAMETER
FD-X	FLOOR DRAIN
MAX.	MAXIMUM
MIN.	MINIMUM
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
— F —	FIRE PROTECTION LINE
— — — — —	DOMESTIC COLD WATER
— D —	DRAIN PIPING
—)	ELBOW DOWN
— (ELBOW UP
—) (RISE OR DROP
— ()	TEE DOWN
— ()	TEE UP
—]	CAP OR BLIND FLANGE
⊙	WALL MOUNTED FIRE DEPT CONNECTION
⊙	PENDENT TYPE SPRINKLER HEAD
⊙	RECESSED PENDENT TYPE SPRINKLER HEAD
⊙	UPRIGHT TYPE SPRINKLER HEAD
⊙	DRY PENDENT TYPE SPRINKLER HEAD
▶	SIDE WALL TYPE SPRINKLER HEAD

FIRE PROTECTION GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE THE COMPLETE DESIGN AND DESIGN DRAWINGS FOR THE INSTALLATION OF THE FIRE SUPPRESSION SYSTEMS IN ACCORDANCE WITH NFPA STANDARDS. THESE DRAWINGS SHALL BE PREPARED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ILLINOIS.
 - A. THE DESIGN OF THE FIRE SUPPRESSION SYSTEM SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES
 - a. IBC - 2018 EDITION
 - b. NFPA - CURRENT EDITION
 - B. ENTIRE BUILDING SHALL BE PROVIDED WITH AUTOMATIC WET OR DRY TYPE FIRE SUPPRESSION SYSTEM.
 - a. THE SYSTEM SHALL BE SIDIGNED TO ACCOMMODATE THE HAZARD LEVEL AS SHOWN ON THE DRAWINGS (LIGHT, ORD, GRP 1, ORD GRP 2, & EXTRA GRP 1).
 - b. THE FIRE SUPPRESSION SYSTEM DOES NOT INCLUDE A FIRE PUMP OR PRESSURE MAINTENANCE PUMP.
 - c. THE FIRE SUPPRESSION SYSTEM IS PROVIDED WITH A SINGLE WALL MOUNTED FIRE DEPARTMENT CONNECTION IN THE LOCATION SHOWN ON THE DRAWINGS.
 - d. INSPECTORS TEST VALVES SHALL BE PROVIDED AT EACH ZONE CONTROL VALVE ASSEMBLY AND AT THE END OF THE SYSTEM PER NFPA 13 REQUIREMENTS.
2. THE CONTRACTOR SHALL PROVIDE DRAWINGS, CALCULATIONS, AND ADDITIONAL DOCUMENTATION AS REQUIRED TO THE STATE OF ILLINOIS AND THE VILLAGE OF MCCOOK FIRE DEPARTMENT FOR REVIEW AND PERMITTING.
3. PIPING IS SHOWN IN SCHEMATIC FORM ONLY. CHANGES IN ELEVATION ARE NOT NECESSARILY SHOWN. SPRINKLER PIPING SHALL BE ROUNDED TO CONSERVE BUILDING SPACE AND ABOVE THE CEILING UNLESS OTHERWISE NOTED. COORDINATE THE LOCATION OF SPRINKLER PIPING, PIPING TO BE EXPOSED SHALL BE CLEARLY DISPLAYED AND LABELED ON CONTRACTOR SUPPLIED DRAWINGS. WHERE EXPOSED, PIPING SHALL BE RUN BETWEEN, ADJACENT TO THE STRUCTURE OR AS TIGHT TO THE CEILING AS POSSIBLE.
4. COORDINATE THE LOCATION OF SPRINKLER HEADS WITH INSTALLATION OF THE CEILING SYSTEM. SYMMETRICALLY LOCATE HEADS IN ROOMS AND CENTER HEADS IN CEILING TILES.
5. GENERAL CONTRACTOR SHALL PERFORM CUTTING AND PATCHING AS REQUIRED TO INSTALL THE FIRE SUPPRESSION SYSTEM.
6. PROVIDE FIRE STOPPING / SEALING AT PENETRATION OF FIRE RATED FLOORS, WALLS AND / OR CEILINGS.
7. EXPOSED FIRE PROTECTION PIPING SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS. COLOR TO BE SELECTED BY THE A / E.
8. NO SPRINKLER PIPING AND / OR SPRINKLER HEADS SHALL BE LOCATED ABOVE ELECTRICAL EQUIPMENT OR INSIDE IT / HUB ROOMS. PROVIDE SIDEWALL SPRINKLER HEADS ROUTE PIPING AROUND ELECTRICAL AND IT ROOMS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SUPPORTING SYSTEMS AND DEVICES FOR PIPING, EQUIPMENT AND ACCESSORIES PER NFPA REQUIREMENTS.
10. PROVIDE AUXILIARY DRAINS ON TRAPPED PIPING SECTIONS. LABEL LOCATIONS OF DRAWINGS ON RECORD DRAWINGS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE COVERAGE IN ALL AREAS. LOCATIONS WHERE DUCTWORK OR OTHER EQUIPMENT CREATE OBSTRUCTIONS LARGER THAN 48" WIDE, CONTRACTOR SHALL PROVIDE SPRINKLER HEADS ABOVE AND BELOW THE OBSTRUCTIONS TO MEET NFPA 13 REQUIREMENTS.

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REVISIONS			DRAWN	PREPARED									FIRE PROTECTION NOTES & SYMBOLS		PROJECT NO.
NO.	DATE	REMARKS	AJM										630-128-005		
			TRACED	APPROVED									DATE		
			CHECKED	APPROVED									05/06/2020		
A	5/6/20	FINAL BRIDGING DOCUMENTS	NTP	APPROVED									SHEET NO.	FP0.01	
													MCCOOK, COOK COUNTY, ILLINOIS 60525		OF () SHEETS

State of Illinois
JB PRITZKER, GOVERNOR
 Illinois Capital Development Board

NOTES (THIS SHEET)

1. ALL AREAS SHOWN ON THIS SHEET SHALL BE PROVIDED WITH WET TYPE SPRINKLER SYSTEMS. SEE ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS.
2. PROVIDE UPRIGHT SPRINKLER HEADS WITH GUARDS IN ALL AREAS WITH EXPOSED CEILING/STRUCTURE. ROUTE SPRINKLER PIPING IN BETWEEN STRUCTURAL MEMBERS.
3. PROVIDE RECESSED PENDENT SPRINKLER HEADS WITH ESCUTCHEONS IN THE OFFICE AREA.

KEYNOTES (THIS SHEET)

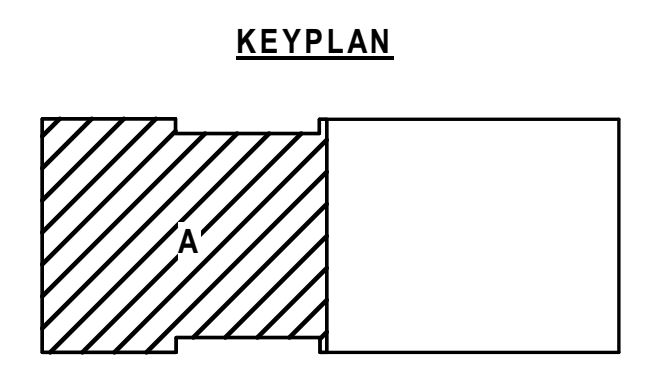
1. PROVIDE EXTENDED COVERAGE SIDE WALL SPRINKLER HEADS TIGHT TO UNDERSIDE OF OVERHEAD DOOR TRACK. PROVIDE REQUIRED SUPPORTS.
2. RPZ BACKFLOW PREVENTER ASSEMBLY. SEE DETAIL 4/FP6.01.
3. BUILDING CONTROL VALVE ASSEMBLY FOR WET SYSTEM. OFFICE AREA, LAB AREA, AND MAINTENANCE BAY AREA ARE SERVED BY WET SYSTEM. SEE DETAIL 3/FP6.01.
4. DRY PIPE FIRE SPRINKLER SYSTEM ZONE VALVE. STORAGE BAY AND WASH BAY SERVED BY DRY SYSTEM ZONE. SEE DETAIL 5/FP6.01.
5. COMBINATION WATER SERVICE FROM BELOW SLAB.
6. FIRE DEPARTMENT CONNECTION. COORDINATE EXACT LOCATION AND TYPE WITH CITY OF MCCOOK FIRE DEPARTMENT. SEE DETAILS 1&2/FP6.01.



SPRINKLER HAZARD LEGEND

LIGHT HAZARD .10/1500	
ORDINARY HAZARD GROUP I .15/1500	
ORDINARY HAZARD GROUP II .20/1500	
EXTRA HAZARD GROUP I .30/2500	
EXTRA HAZARD GROUP II .40/2500	

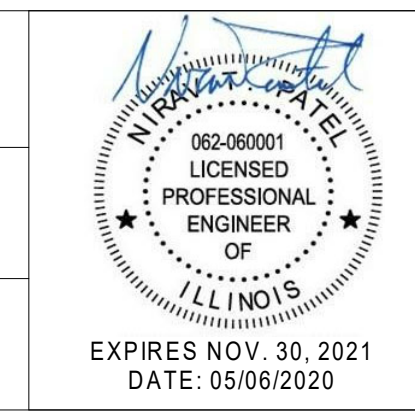
1 FIRE PROTECTION PLAN - AREA A
SCALE 1/8" = 1'



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FIRE PROTECTION PLAN - AREA A
STEVENS ON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

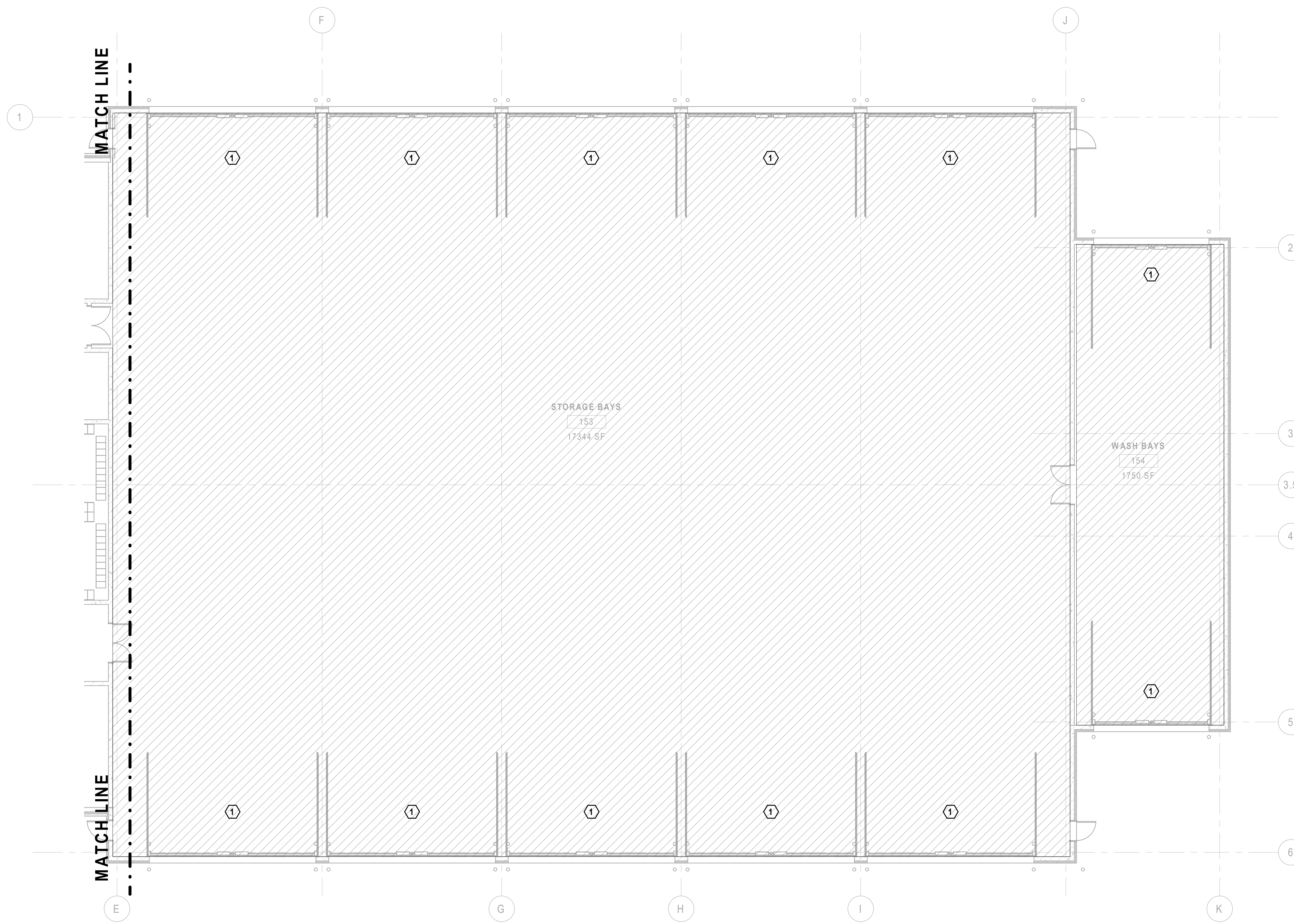
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DATE
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FP2.10
OF () SHEETS

NOTES (THIS SHEET)

1. ALL AREAS SHOWN ON THIS PLAN SHALL BE PROVIDED WITH DRY TYPE SPRINKLER SYSTEMS.
2. SEE ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS.
3. PROVIDE UPRIGHT SPRINKLER HEADS WITH GUARDS IN ALL AREAS WITH EXPOSED CEILING/STRUCTURE.
4. ROUTE SPRINKLER PIPING IN BETWEEN STRUCTURAL MEMBERS.

KEYNOTES (THIS SHEET)

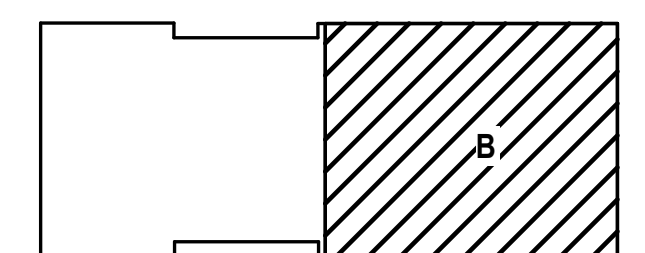
1. PROVIDE EXTENDED COVERAGE SIDE WALL SPRINKLER HEADS TIGHT TO UNDERSIDE OF OVERHEAD DOOR TRACK. PROVIDE REQUIRED SUPPORTS.



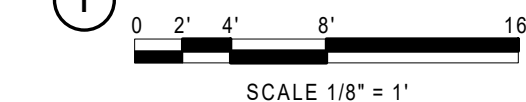
SPRINKLER HAZARD LEGEND

LIGHT HAZARD .10/1500	
ORDINARY HAZARD GROUP I .15/1500	
ORDINARY HAZARD GROUP II .20/1500	
EXTRA HAZARD GROUP I .30/2500	
EXTRA HAZARD GROUP II .40/2500	

KEYPLAN



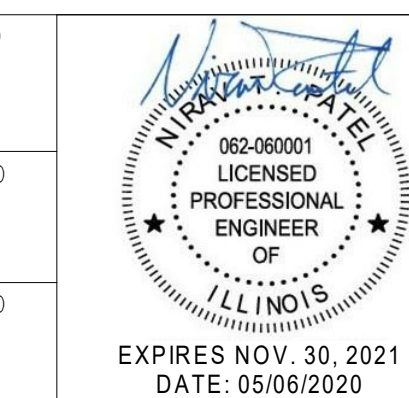
1 FIRE PROTECTION PLAN - AREA B



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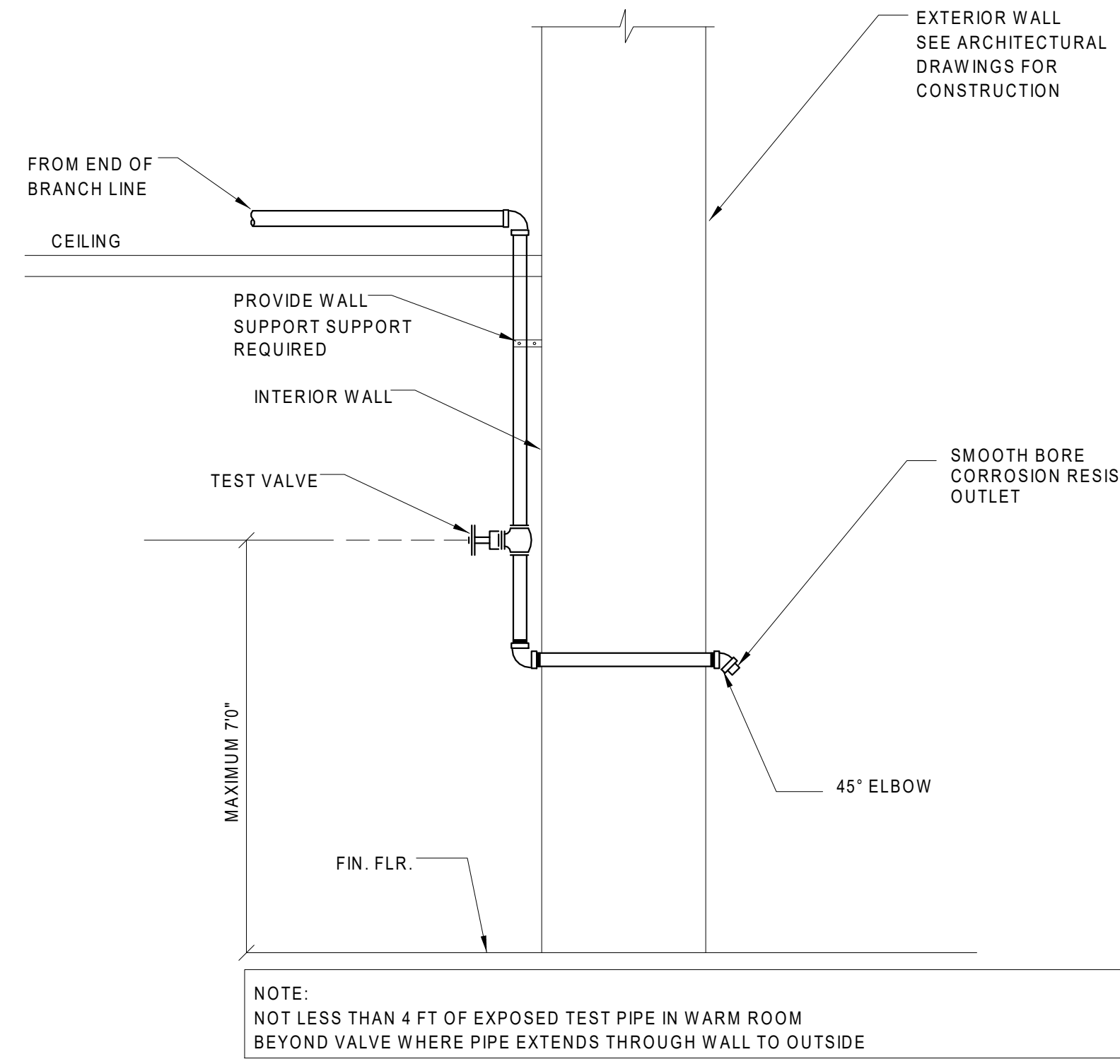


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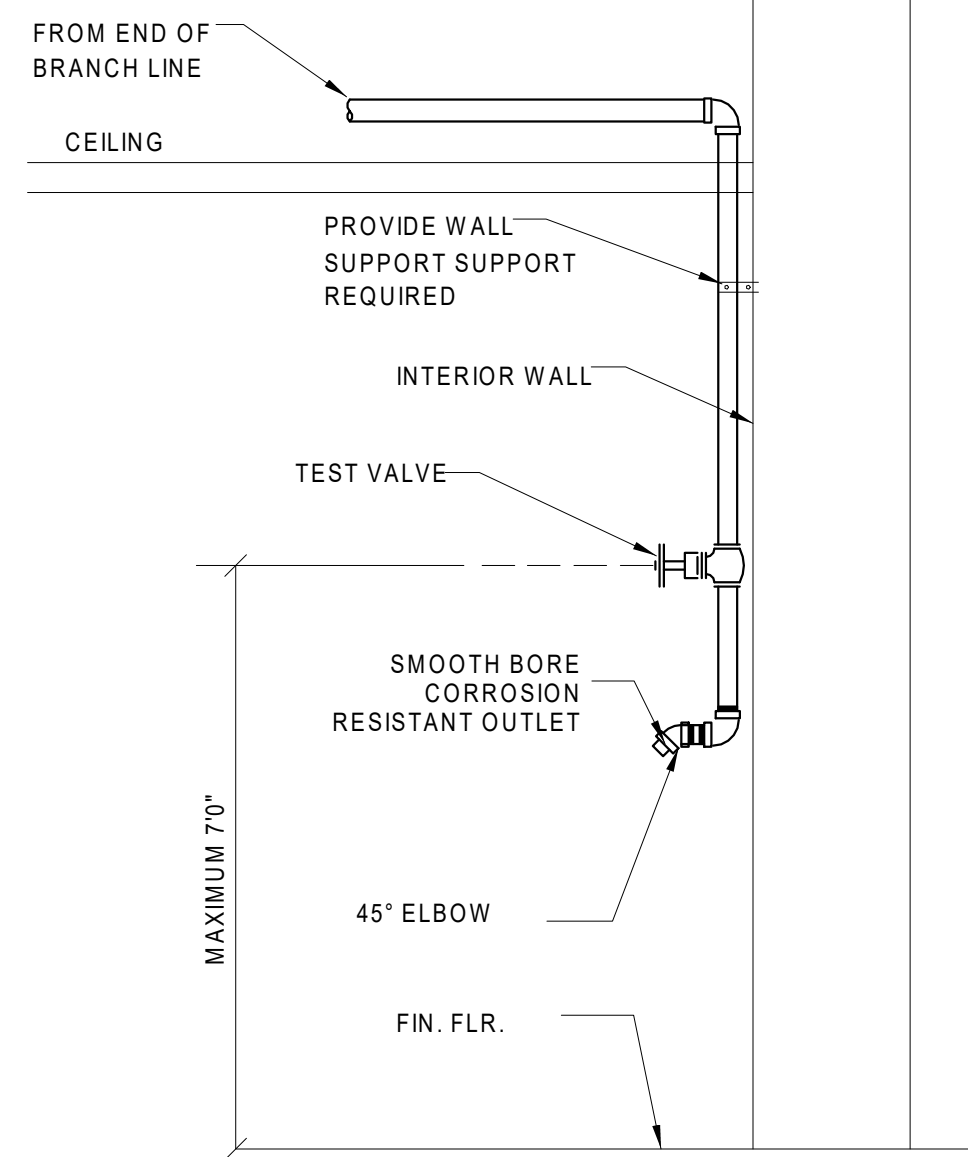
FIRE PROTECTION PLAN - AREA B

STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

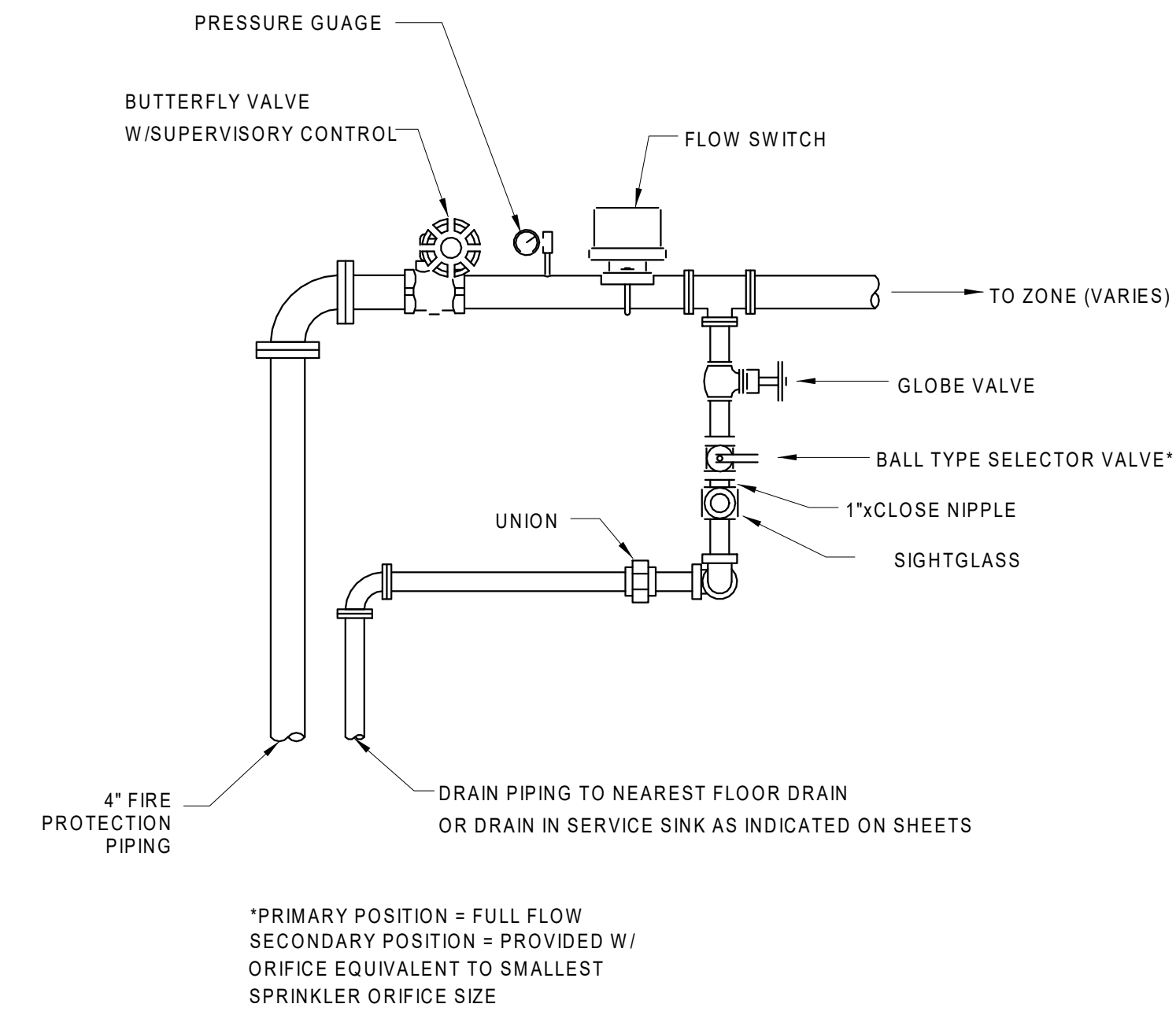
PROJECT NO.
630-128-005
 DATE
05/06/2020
 SHEET NO.
FP2.11
 OF () SHEETS



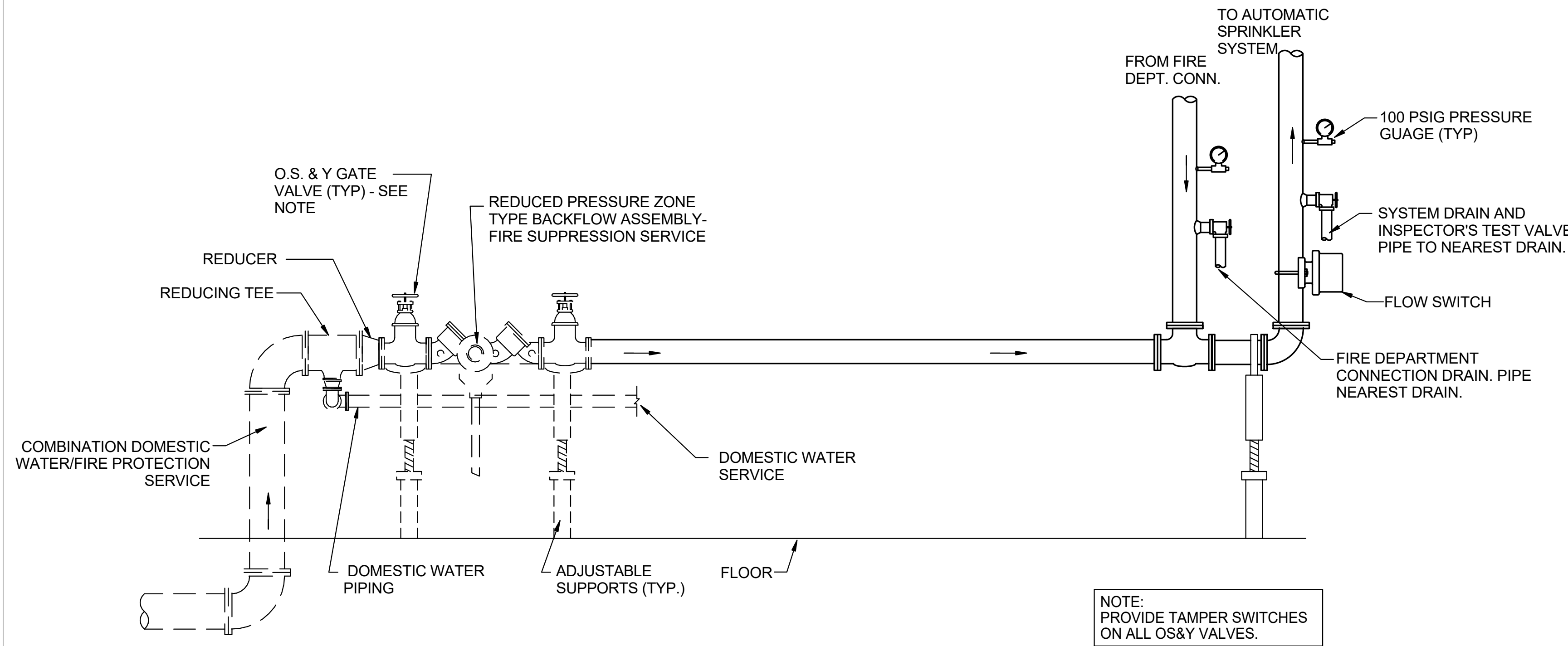
1 N.T.S. INSPECTORS TEST CONNECTION - EXTERIOR DRAIN



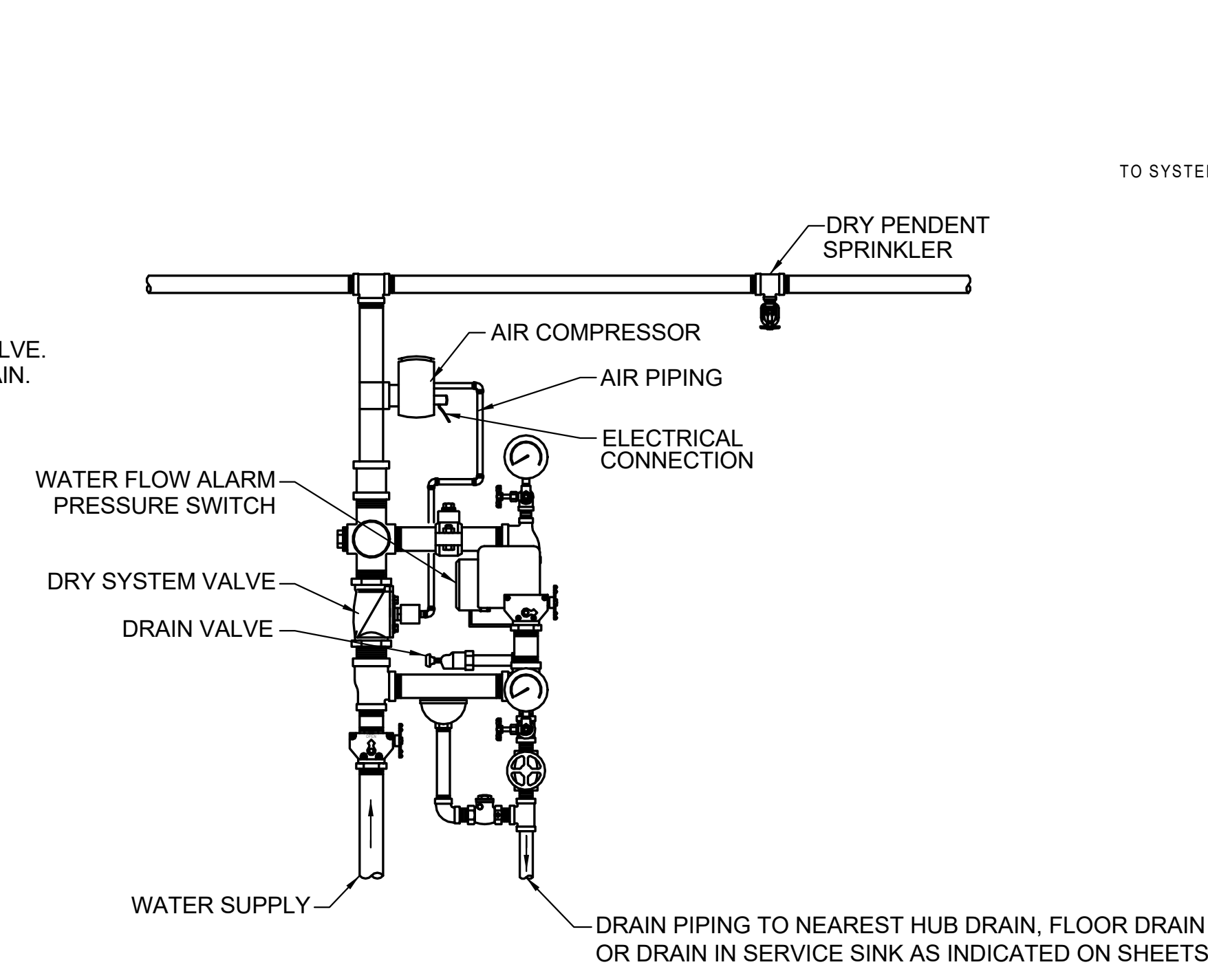
2 N.T.S. INSPECTORS TEST CONNECTION - INTERIOR DRAIN



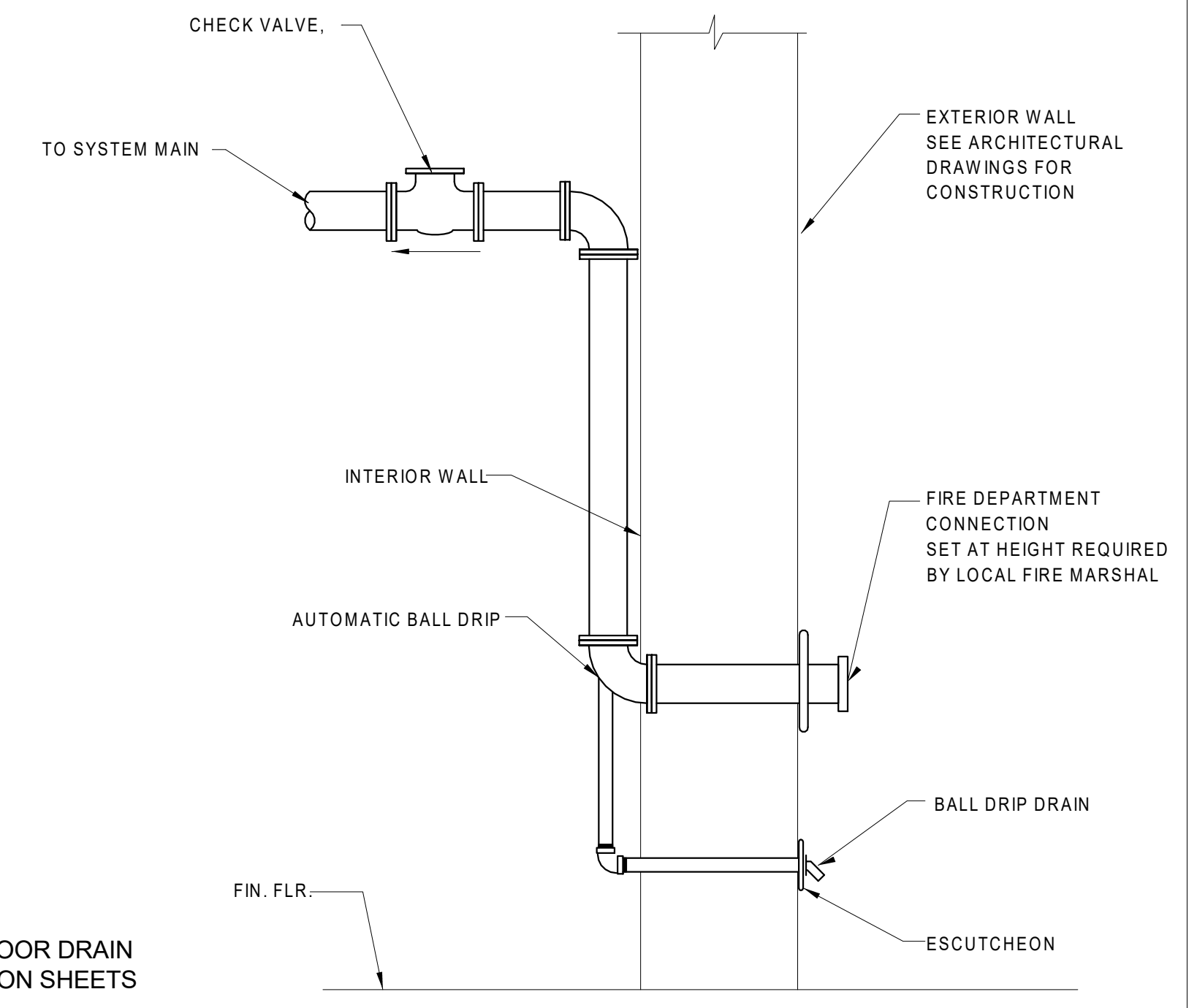
3 N.T.S. ZONE CONTROL VALVE ASSEMBLY



4 N.T.S. COMBINATION SERVICE/BACKFLOW PREVENTER ASSEMBLY



5 N.T.S. DRY SPRINKLER SYSTEM ASSEMBLY

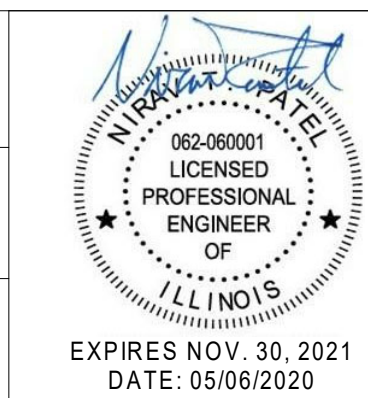


6 N.T.S. FIRE DEPARTMENT CONNECTION

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

REVISIONS		
NO.	DATE	REMARKS
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FIRE PROTECTION DETAILS

STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
DATE 05/06/2020
SHEET NO. FP6.01
OF () SHEETS

ELECTRICAL SYMBOLS LIST		
SYMBOL	DESCRIPTION	NOTE
	SIMPLEX RECEPTACLE (SEE MODIFIER TEXT LEGEND BELOW)	
	DUPLEX RECEPTACLE (SEE MODIFIER TEXT LEGEND BELOW)	
	DOUBLE DUPLEX RECEPTACLE (SEE MODIFIER TEXT LEGEND BELOW)	
	RETRACTABLE CORD REEL	
	SPECIAL PURPOSE CONNECTION (SEE SCHEDULE FOR DESCRIPTION)	
	ELECTRIC MOTOR CONNECTION (SEE SCHEDULE FOR DESCRIPTION)	
	MANUAL MOTOR STARTER WITH PILOT LIGHT AND HANDLE GUARD & LOCKING MECHANISM	
	PANELBOARD (SEE SCHEDULE FOR DESCRIPTION)	
	DISCONNECT SWITCH, FUSED / NON-FUSED	
	MAGNETIC MOTOR STARTER / CONTACTOR	
	COMBINATION MAGNETIC STARTER AND DISCONNECT	
	POWER TRANSFORMER, SIZE APPROXIMATE, #=I.D. (SEE SCHEDULE FOR DESCRIPTION)	
	JUNCTION AND PULL BOXES	
	CEILING RECESSED DOWNLIGHT	
	CEILING RECESSED LIGHT FIXTURE, SIZE SCALED	
	WALL MOUNT LIGHT FIXTURE, SIZE SCALED	
	CEILING MOUNT LIGHT FIXTURE, SIZE SCALED	
	EXIT SIGN, SINGLE / DOUBLE FACE	
	EMERGENCY LIGHT AND / OR NIGHT LIGHT	
	HIGH BAY LIGHT FIXTURE, SIZE SCALED	
	EXTERIOR WALL LIGHT	
	POLE LIGHTING - SINGLE LAMP	
	POLE LIGHTING - DOUBLE LAMP BACK TO BACK	
	FLOOD LIGHT FIXTURE	
	PHOTOCELL	
	OVERHEAD DOOR OPERATOR SWITCH (OPEN, STOP, CLOSE)	
	COMBINATION VOICE / DATA OUTLET(S) # = NUMBER OF DATA JACKS IF MORE THAN ONE	1
	FIRE ALARM MANUAL PULL STATION	
	FIRE ALARM HORN / STROBE	
	FIRE ALARM CONTROL PANEL	
	FIRE ALARM SMOKE DETECTOR	
	FIRE ALARM HEAT DETECTOR	
	SECURITY SYSTEM CARD READER DOOR CONTROL	
	SECURITY SYSTEM REQUEST TO EXIT DOOR CONTROL	
	SECURITY SYSTEM DOOR LOCK	
	SECURITY SYSTEM DOOR POSITION SWITCH	
	FEEDER CIRCUIT (ONE-LINE)	
	METERING (ONE-LINE)	
	MANUAL TRANSFER SWITCH (ONE-LINE)	
	PANEL OR SWITCHGEAR (ONE-LINE)	
	CIRCUIT BREAKER (ONE-LINE)	
	TRANSFORMER (ONE-LINE)	
	PANEL DESIGNATION - PANEL (SEE PANEL DESIGNATION LEGEND)	

NOTES

- 4" SQUARE BOX WITH 2-GANG PLASTER RING. PROVIDE 3/4" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING. PROVIDE (4)-CAT 6 PLENUM RATED CABLES TO TELEPHONE / NETWORK EQUIPMENT (TAG ENDS). JACKS AND FINAL CONNECTIONS BY OWNER.

RECEPTACLE MODIFIER TEXT LEGEND

- GFCI WITH GROUND FAULT INTERRUPTION PROTECTION
- AC ABOVE COUNTER
- WP WITH WEATHERPROOF COVER AND GROUND FAULT PROTECTION. MOUNT AT 24" AFG OR NEXT HIGHEST BLOCK JOINT.

PANEL DESIGNATION LEGEND

- PP 480Y / 277V PANEL
- LP 208Y / 120V PANEL
- RP 208Y / 120V PANEL

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ELECTRICAL ABBREVIATIONS

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AL, ALUM	ALUMINUM
A/V	AUDIO / VIDEO
AWG	AMERICAN WIRE GAUGE
BDF	BUILDING DISTRIBUTION FRAME
CKT	CIRCUIT
CLG	CEILING
CONC	CONCRETE
CONT	CONTINUED
CRD	CREDENZA
CT	CONROL/CIRCUIT TRANSFORMER
DDC	DIRECT DIGITAL CONTROL
DEM	DEMAND
E	ELECTRIC
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
ETM	ELAPED TIME METER
EWG	ELECTRIC WATER COOLER
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPERES
FLUOR	FLUORESCENT
FPC	FIRE PROTECTION CONTRACTOR
FVNR	FULL VOLTAGE NON REVERSING
G.GND	GROUND
GC	GENERAL CONTRACTOR
H	HEIGHT, HAND, HIGH
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
I/O	INPUT / OUTPUT
IDF	INTERMEDIATE DISTRIBUTION FRAME
IN	INCHES
INFL	INFLUENT
ITC	INSTRUMENTATION TERMINATION CABINET
KA	KILO-AMPERES
KV	KILO-VOLT
KVA	KILO-VOLT AMPERES
KW	KILOWATTS
L	LOW
LA	LIGHTNING ARRESTOR
LBS	POUNDS
LCP	LOCAL CONTROL PANEL
LED	LIGHT EMITTING DIODE
LG	LINE TO GROUND
LL	LINE TO LINE
LTS	LIGHTS
L.O.	LOCK OUT
LP	LIGHTING PANEL
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MD	MOTORIZED DAMPER
MFR	MANUFACTURER
MLO	MAIN LUG ONLY
MMS	MANUAL MOTOR STARTER
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
O	OFF
OC	OVERCURRENT
OL'S	OVERLOAD RELAYS
P	POLE(S), PUMP
PB	PUSH BUTTON
PC	PLUMBING CONTRACTOR
PH	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PRI	PRIMARY
PTT	PUSH TO TEST
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	RED
RECEP	RECEPTACLE
REPL	REPLACE
RGS	RIGIS GALVANIZED STEEL
RPM	REVOLUTIONS PER MINUTE
SEC	SECONDARY
SEL SW	SELECTOR SWITCH
SS	STAINLESS STEEL
T	TELEPHONE
TDO	TIME DELAY OPENING
TGB	TELECOMMUNICATIONS GROUND BAR
TSP	TWISTED SHIELDED PAIR
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPERES
VC	VENTILATING CONTRACTOR
VFD	VARIABLE FREQUENCY DRIVE
VT	VARIABLE TORQUE
W	WHITE, WIDTH, WATTS
W/	WITH
XFMR, XF	TRANSFORMER

ELECTRICAL GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE 2017 NATIONAL ELECTRICAL CODE, THE MOST CURRENT EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE, AND ALL APPLICABLE LOCAL ORDINANCES.
- CONTRACTOR SHALL FURNISH ALL MATERIALS FOR A COMPLETE AND WORKABLE SYSTEM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND FOR PROVIDING ALL SUPERVISION, LABOR, AND TOOLS FOR THE PROJECT.
- ALL WORK IS TO CONFORM TO A TIME SCHEDULE TO BE ESTABLISHED BY THE USING AGENCY.
- CONTRACTOR SHALL COORDINATE THE WORK SCHEDULE WITH THE USING AGENCY AND OBTAIN THE USING AGENCY'S APPROVAL BEFORE ANY WORK INVOLVING A SHUTDOWN IS DONE.
- ALL MATERIALS FURNISHED BY THE CONTRACTOR ARE TO BE NEW AND APPROVED BY THE USING AGENCY AS TO MANUFACTURER AND TYPE.
- ALL CONDUITS SHALL BE PROVIDED WITH AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE.
- ALL LOCATIONS AND DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL ELECTRICAL EQUIPMENT LOCATIONS AND EQUIPMENT DIMENSIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EQUIPMENT THAT WILL FIT IN THE SPACE ALLOTTED.
- THE LOCATION OF UTILITIES AND STRUCTURES, BOTH SURFACE AND SUBSURFACE, ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF THE SURVEY AND ARE NOT NECESSARILY COMPLETE OR CORRECT. THE EXACT LOCATION AND PROTECTION OF UTILITIES AND STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. DURING CONSTRUCTION THE CONTRACTOR SHALL USE DILIGENCE TO PROTECT ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND RESTORATION OF SAME IN ACCORDANCE WITH THE DIRECTIONS OF THE ENGINEER AND FOR ANY RESULTING CONTINGENT DAMAGES.
- BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR.
- POWER, INSTRUMENTATION, AND CONTROL WIRING SHALL BE INSTALLED IN SEPARATE CONDUITS. SHIELDED CONDUCTORS SHALL NOT BE INSTALLED IN THE SAME CONDUIT AS ANY UNSHIELDED CONDUCTORS.
- REMOVE ALL UNUSED CONDUIT AND WIRE BACK TO SOURCE ASSOCIATED WITH EQUIPMENT BEING REMOVED OR RELOCATED. CONCEALED CONDUIT BELOW FLOOR OR UNDERGROUND MAY REMAIN IN PLACE.
- UNLESS OTHERWISE NOTED, ALL CONDUIT FOR POWER, LIGHTING, CONTROL, AND INSTRUMENTATION SHALL BE EMT TYPE CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL PANEL FEEDERS SHALL BE RIGID GALVANIZED STEEL.
- ALL UNDERGROUND CONDUITS SHALL BE PVC, SCHEDULE 40, 1" MINIMUM AND SHALL BE ENCASED IN RED CONCRETE 2' - 6" MINIMUM BELOW GRADE, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL UNDER FLOOR CONDUIT AND ELECTRICAL DUCTBANK WITH THE GENERAL CONTRACTOR.
- CONDUIT RUNS SHALL BE ROUTED TO AVOID, AND NEVER RUN BELOW, STEAM, WATER, OR OTHER PIPE WHICH MAY HAVE AN ADVERSE EFFECT DUE TO HEAT OR LEAKS. WHERE CONDUIT PARALLELS OR CROSSES SUCH PIPES, A MINIMUM SEPARATION OF 12 INCHES SHALL BE MAINTAINED.
- LIQUID-TIGHT FLEXIBLE CONDUIT (MAXIMUM OF 24") SHALL BE USED IN CONNECTING MOTORS, SENSING ELEMENTS, INSTRUMENTS, SOLENOID VALVES, OR ANY OTHER DEVICE WHICH TRANSMITS VIBRATION OR NOISE, REQUIRES MOVEMENT FOR ADJUSTMENT, OR REQUIRES REMOVAL FOR MAINTENANCE. MINIMUM SIZE OF FLEXIBLE CONDUIT SHALL BE 1/2".
- JUNCTION BOXES, CABINETS, SWITCHES, AND OTHER ELECTRICAL EQUIPMENT SHALL BE SOLIDLY ATTACHED PRIOR TO INSTALLATION OF CONDUIT.
- CONDUIT, PULL BOXES, CABINETS, ETC. SHALL FORM A CONTINUOUS CONDUCTIVE GROUND SYSTEM. AT TRANSITIONS AND BREAKS, CONDUIT SHALL BE BONDED.
- CONDUIT SHALL NOT BE FASTENED TO OTHER EQUIPMENT OR SO INSTALLED AS TO PREVENT THE READY REMOVAL OF OTHER EQUIPMENT FOR REPAIRS. INSTALLATION OF CONDUITS MUST NOT INTERFERE WITH ACCESS WAYS OR LADDERS.
- ALL NEW CONDUITS INSIDE BUILDINGS SHALL BE PAINTED TO MATCH THE COLOR OF THE WALLS OR THE COLOR OF EXISTING CONDUITS.
- ONLY PULLBOXES SPECIFICALLY REQUIRED BY THE ENGINEER IN LOCATIONS SHOWN ARE IDENTIFIED. CONTRACTOR SHALL PROVIDE ALL PULLBOXES REQUIRED TO MEET APPLICABLE CODES.
- GROUNDING RODS SHALL BE 3/4" DIA x 10'-0" LONG COPPER CLAD. CONNECTIONS TO GROUNDING ELECTRODE CONDUCTOR SHALL BE WITH EXOTHERMIC WELDS.
- CONDUCTORS SHALL BE CONTINUOUS FROM POINT OF ORIGIN TO THE TERMINATION. NO CABLE SHALL BE SPLICED EXCEPT AS SHOWN ON THE DRAWINGS OR ON EXPLICIT INSTRUCTIONS OF THE USING AGENCY.
- TERMINALS ON THE TERMINAL BLOCKS SHALL BE PLAINLY AND PERMANENTLY MARKED TO CORRESPOND WITH THE IDENTIFICATION NUMBERS ON THE DIAGRAMS.
- ALL CABLE AND WIRE SHALL BE STRANDED COPPER. ALUMINUM CABLE AND WIRE ARE NOT ACCEPTABLE. ALL POWER AND CONTROL CABLE SHALL BY CROSS-LINKED POLYETHYLENE (XLP) OR POLYVINYL CHLORIDE (PVC) INSULATION (XHHW OR THHN-THWN), RATED 90°C FOR 600 VOLT.
- CONTRACTOR SHALL FURNISH JUNCTION BOXES AND PULLBOXES AS REQUIRED. ALL INTERIOR JUNCTION BOXES AND PULLBOXES SHALL BE NEMA 12 ENCLOSURES UNLESS OTHERWISE INDICATED. ALL EXTERIOR JUNCTION BOXES AND PULLBOXES SHALL BE STAINLESS STEEL NEMA 4X ENCLOSURES UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABLES AND WIRE FROM CONTROL/INSTRUMENTATION DEVICES BACK TO ASSOCIATED CONTROL PANEL.
- CONTRACTOR SHALL PROVIDE 20% SPARE CONTROL WIRES (MINIMUM OF 3 SPARES) FOR EACH CONTROL DEVICE. CAP SPARE WIRES AND LABEL AS SPARE.
- FABRICATED BOXES OF 24 x 24 INCHES OR SMALLER SHALL BE MADE FROM 10 GAUGE STEEL SHEET.
- FABRICATED BOXES LARGER THAN 24 x 24 INCHES SHALL BE MADE FROM 1/8" STEEL SHEET.
- BOXES INSTALLED IN AN AREA DEFINED TO BE ACIDIC OR CAUSTIC SHALL BE MADE FROM TYPE 316 STAINLESS STEEL UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- IN DRY AND/OR CLEAN AREAS CONDUIT ATTACHMENT TO BOXES SHALL BE MADE BY THE USE OF DOUBLE STEEL LOCK NUT (ONE OF WHICH SHALL BE OF THE BONDING TYPE) AND AN INSULATION BUSHING ON THE END OF EACH CONDUIT TERMINATION IN THE BOX.
- IN WET AND/OR DUSTY AREAS AND EXTERIOR LOCATIONS, CONDUIT ATTACHMENT TO BOXES SHALL BE MADE WITH A WATERTIGHT CONDUIT HUB AS MANUFACTURED BY EFFCOR CO. OR USING AGENCY APPROVED EQUAL.
- CONTRACTOR SHALL LEAVE SLACK IN ALL CABLE IN ALL BOXES.
- ALL WIRING/CABLES WITHIN BOXES SHALL BEAR A CABLE IDENTIFICATION TAG IN ACCORDANCE WITH THE SPECIFICATIONS. ALL WIRING/CABLE SHALL BE IDENTIFIED BY PERMANENT WIRE MARKERS AT EACH TERMINATION AND SHALL CORRESPOND WITH THE IDENTIFICATION NUMBERS ON THE DRAWINGS.
- PROVIDE BRIDLE RING CABLE SUPPORTS CONNECTED TO BUILDING STRUCTURE ABOVE ACCESSIBLE CEILINGS FOR ALL TELEPHONE/NETWORK CABLES (CAT 6), DOOR ACCESS CABLES, AND FIRE ALARM CABLES. EACH SYSTEM SHALL HAVE ITS OWN SET OF CABLE SUPPORTS. SYSTEM SHALL NOT BE COMBINED IN COMMON CABLE SUPPORTS. CABLES LOCATED WITHIN WALLS, ABOVE INACCESSIBLE CEILINGS, OR WHERE NO CEILING EXISTS SHALL BE IN CONDUIT.
- COORDINATE THE INSTALLATION OF THE NEW ELECTRICAL SERVICE WITH COMMONWEALTH EDISON COMPANY. THE SERVICE SHALL BE INSTALLED IN ACCORDANCE WITH THEIR REQUIREMENTS, THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, AND ANY STATE AND LOCAL CODES OR REQUIREMENTS.
- NEUTRAL WIRES SHALL NOT BE SHARED. ALL SINGLE POLE CIRCUITS SHALL HAVE A DEDICATED NEUTRAL.
- PROVIDE SLACK CABLE IN JUNCTION BOXES PER N.E.C.

REVISIONS		
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ELECTRICAL NOTES AND SYMBOLS

STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

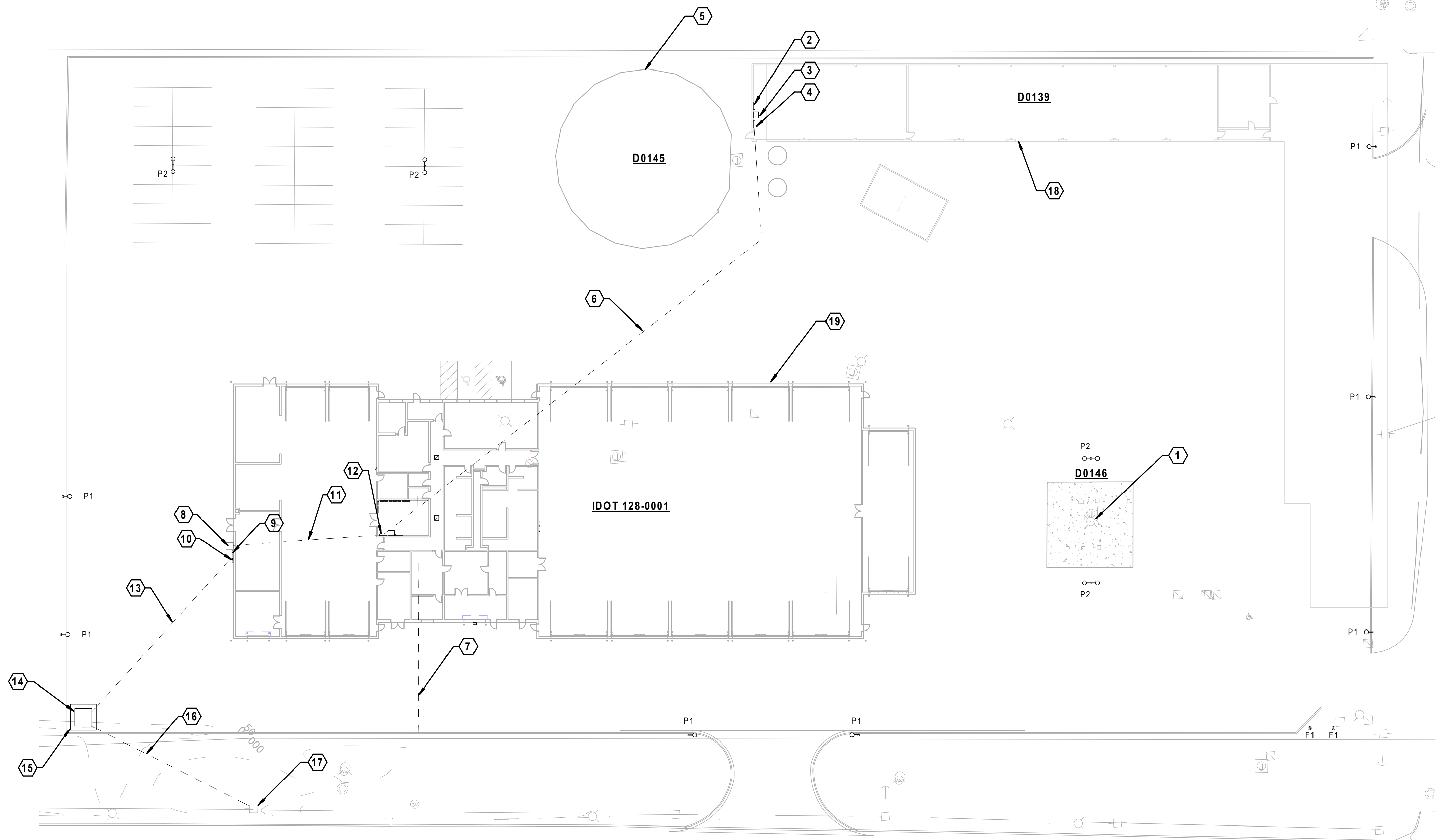
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SHEET NO. **E.01**
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NOTES (THIS SHEET)

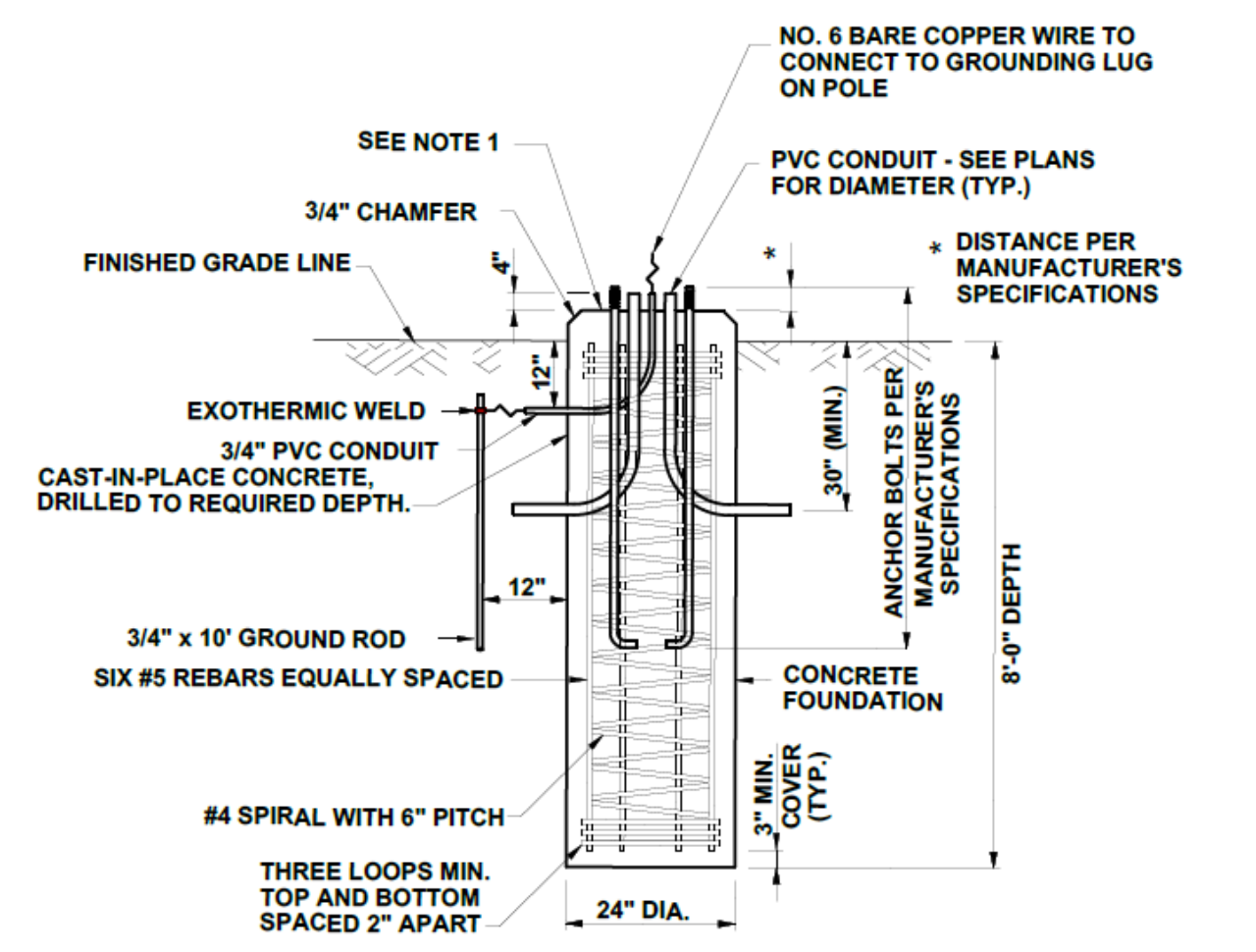
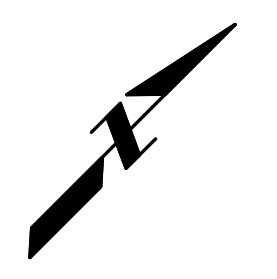
- SEE SHEET E0.01 FOR ELECTRICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- SEE LIGHTING CONTROL SCHEDULE IN SPECIFICATIONS FOR CONTROL OF SITE LIGHTING.

KEYNOTES (THIS SHEET)

- REFEED EXISTING FUEL PUMPS FROM PANEL RP-C AS REQUIRED. PROVIDE SEAL-OFFS PER NATIONAL ELECTRICAL CODE.
- PROVIDE PANEL SB. SEE ONE-LINE DIAGRAM.
- PROVIDE TRANSFORMER XF-SB. SEE ONE-LINE DIAGRAM.
- PROVIDE DISCONNECT SWITCH AT TRANSFORMER XF-SB. SEE ONE-LINE DIAGRAM.
- REFEED EXISTING SALT DOME CIRCUITS FROM PANEL SB AS REQUIRED.
- PROVIDE BURIED FEEDER TO DISCONNECT SWITCH AT TRANSFORMER XF-SB. SEE ONE-LINE DIAGRAM.
- PROVIDE 4" EMPTY CONDUIT WITH PULL STRING TO PROPERTY LINE FOR DATA/FIBER SERVICE.
- PROVIDE MANUAL TRANSFER SWITCH WITH QUICK CONNECTS FOR CONNECTION OF PORTABLE GENERATOR. SEE ONE-LINE DIAGRAM.
- PROVIDE MAIN SERVICE BREAKER. SEE ONE-LINE DIAGRAM.
- PROVIDE C/T CABINET AND METER BASE PER UTILITY COMPANY REQUIREMENTS. SEE ONE-LINE DIAGRAM.
- PROVIDE BURIED FEEDER TO DISTRIBUTION PANEL MDP. SEE ONE-LINE DIAGRAM.
- PROVIDE DISTRIBUTION PANEL MDP. SEE ONE-LINE DIAGRAM.
- PROVIDE BURIED SERVICE ENTRANCE CONDUIT AND WIRING. SEE ONE-LINE DIAGRAM.
- PAD MOUNTED TRANSFORMER BY UTILITY COMPANY. COORDINATE ENTIRE SERVICE ENTRANCE WORK WITH COMMONWEALTH EDISON COMPANY.
- PROVIDE CONCRETE PAD PER UTILITY COMPANY REQUIREMENTS FOR TRANSFORMER. COORDINATE ENTIRE SERVICE ENTRANCE WORK WITH COMMONWEALTH EDISON COMPANY.
- PROVIDE BURIED PRIMARY CONDUIT WITH PULL STRING (CABLES BY UTILITY). SEE ONE-LINE DIAGRAM. COORDINATE ENTIRE SERVICE ENTRANCE WORK WITH COMMONWEALTH EDISON COMPANY.
- EXISTING UTILITY POLE. CONFIRM LOCATION WITH UTILITY. COORDINATE ENTIRE SERVICE ENTRANCE WORK WITH COMMONWEALTH EDISON COMPANY.
- EXISTING BUILDING. SEE PLANS.
- PROPOSED BUILDING. SEE PLANS.



1 SITE LIGHTING & POWER PLAN
N.T.S.



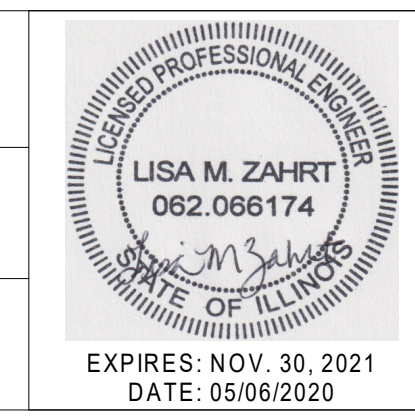
- NOTE:
- THE TOP OF THE CONCRETE FOUNDATION SHALL BE 4" ABOVE GRADE IN EARTH PARKWAYS OR 1" ABOVE GRADE IN PAVED SIDEWALK AREAS.
 - COORDINATE BOLT CIRCLE DIAMETER WITH POLES BEING PROVIDED.

2 DETAIL - LIGHT POLE CONCRETE FOUNDATION
NOT TO SCALE

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SITE LIGHTING & POWER PLAN
STEVENSON YARD MAINTENANCE FACILITY
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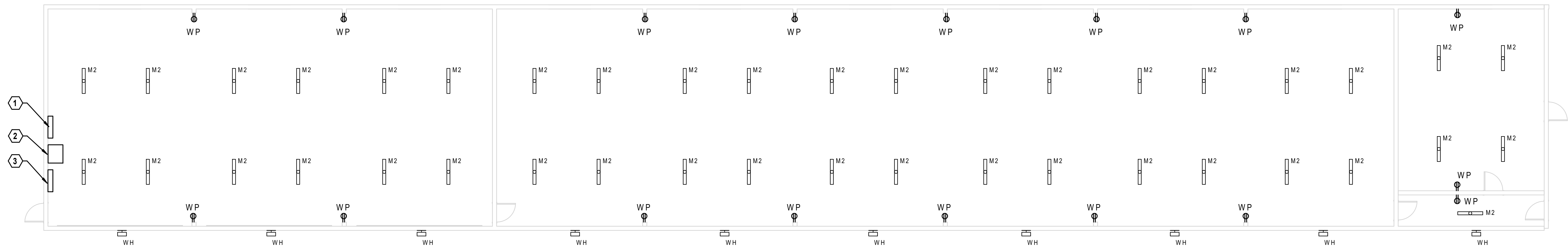
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SHEET NO. **E1.10**
OF () SHEETS

NOTES (THIS SHEET)

- SEE SHEET E0.01 FOR ELECTRICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, FIXTURES, CONDUIT, AND WIRE.

KEYNOTES (THIS SHEET)

- PROVIDE PANEL SB. SEE ONE-LINE DIAGRAM.
- PROVIDE TRANSFORMER XF-SB. SEE ONE-LINE DIAGRAM.
- PROVIDE DISCONNECT SWITCH AT TRANSFORMER XF-SB. SEE ONE-LINE DIAGRAM.

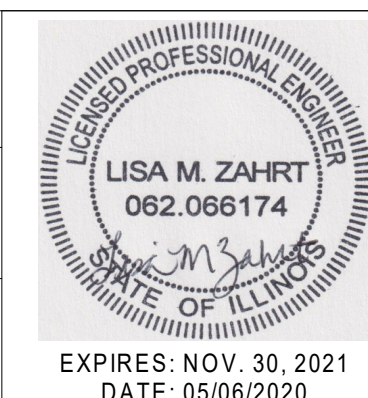


1 COLD STORAGE BUILDING D0139 LIGHTING & POWER PLAN
 SCALE 1/8" = 1'

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

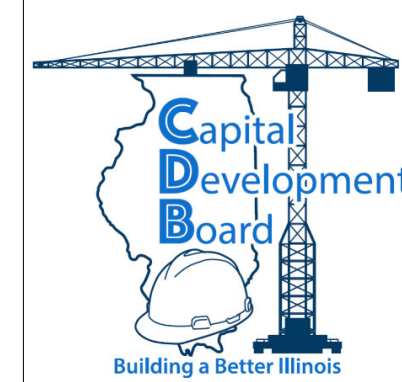
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NO.	DATE	REMARKS
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 Illinois Capital Development Board

D0139 LIGHTING & POWER PLAN

STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

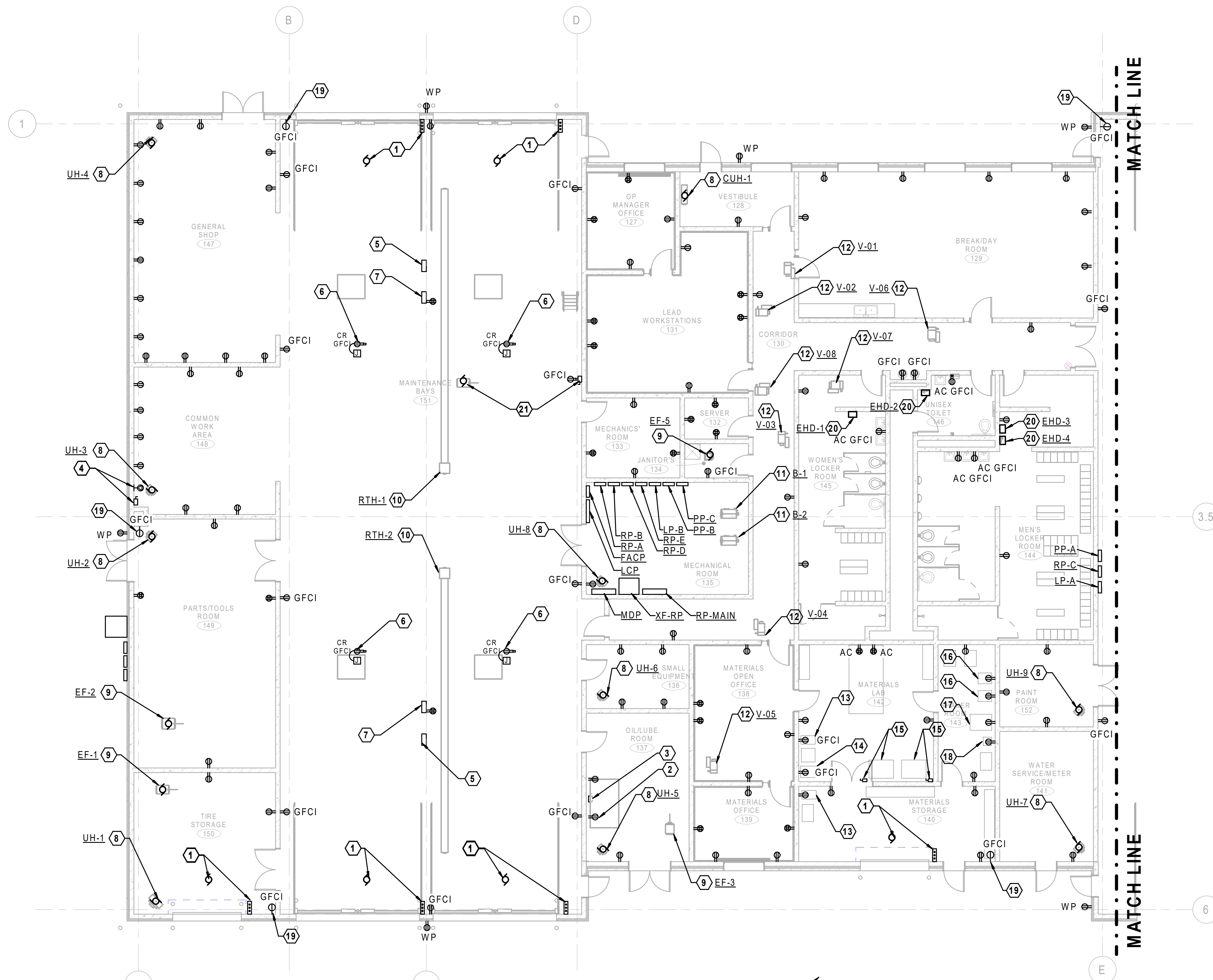
PROJECT NO. 630-128-005
DATE 05/06/2020
SHEET NO. E1.11
OF () SHEETS

NOTES (THIS SHEET)

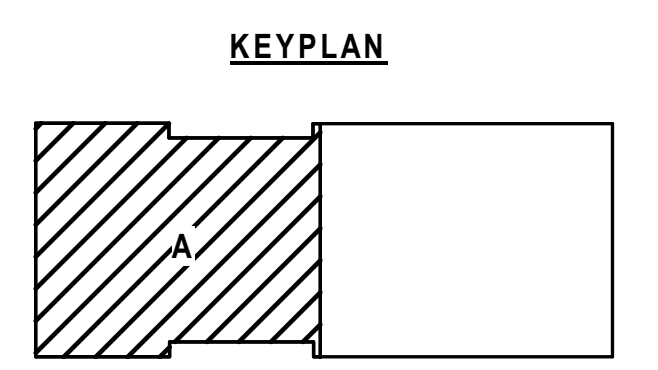
- REFER TO SHEET E001 FOR ELECTRICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- ALL RECEPTACLES IN MAINTENANCE BAYS SHALL BE MOUNTED AT 48" A.F.F. PROVIDE SEAL-OFFS IN ALL CONDUITS ENTERING OR LEAVING THE RATED AREA AS DEFINED BY THE N.E.C.

KEYNOTES (THIS SHEET)

- OVERHEAD DOOR OPERATOR AND PUSHBUTTON STATION. PROVIDE FINAL POWER AND CONTROL CONNECTIONS TO DOOR OPERATOR, PUSHBUTTON STATION, LIMIT SWITCHES, AND PROXIMITY SENSORS, ETC. SEE EQUIPMENT CONNECTION SCHEDULE.
- PROVIDE DUPLEX RECEPTACLE FOR AIR COMPRESSOR REFRIGERATED AIR DRYER. CONFIRM LOCATION WITH ARCHITECT. SEE EQUIPMENT CONNECTION SCHEDULE.
- PROVIDE LOCAL DISCONNECT SWITCH FOR AIR COMPRESSOR. CONFIRM LOCATION WITH ARCHITECT. SEE EQUIPMENT CONNECTION SCHEDULE.
- PROVIDE DISCONNECT SWITCH AND ASSOCIATED TWIST LOCK WELDING RECEPTACLE. CONFIRM LOCATION WITH ARCHITECT. SEE EQUIPMENT CONNECTION SCHEDULE.
- LIFT POWER & CONTROL PANEL. CONFIRM LOCATION WITH ARCHITECT. SEE EQUIPMENT CONNECTION SCHEDULE.
- CORD REEL. PROVIDE DUPLEX RECEPTACLE MOUNTED AT BOTTOM OF TRUSS FOR CORD REEL. CONFIRM LOCATION OF CORD REEL WITH ARCHITECT. SEE EQUIPMENT CONNECTION SCHEDULE.
- FREE STANDING CONTROL PANEL. PROVIDE 4" CONCRETE HOUSEKEEPING PAD. CONTROL PANEL SHALL INCLUDE CONTROLS FOR EXHAUST FAN(S). AIR CONNECTIONS BY OTHERS. PROVIDE DOUBLE DUPLEX RECEPTACLE AND DATA OUTLET FOR DIAGNOSTICS.
- UNIT HEATER. PROVIDE DISCONNECT SWITCH AND FINAL CONNECTIONS. SEE EQUIPMENT CONNECTION SCHEDULE.
- EXHAUST FAN. PROVIDE DISCONNECT SWITCH AND FINAL CONNECTIONS. SEE EQUIPMENT CONNECTION SCHEDULE.
- RADIANT TUBE HEATER. PROVIDE DISCONNECT SWITCH AND FINAL CONNECTIONS. SEE EQUIPMENT CONNECTION SCHEDULE.
- BOILER. PROVIDE DISCONNECT SWITCH AND FINAL CONNECTIONS. SEE EQUIPMENT CONNECTION SCHEDULE.
- VARIABLE AIR VOLUME BOX. PROVIDE DISCONNECT SWITCH AND FINAL CONNECTIONS. SEE EQUIPMENT CONNECTION SCHEDULE.
- INDUSTRIAL BALANCE. SEE EQUIPMENT CONNECTION SCHEDULE.
- AGGREGATE WASHER. SEE EQUIPMENT CONNECTION SCHEDULE.
- BENCHTOP OVEN. PROVIDE LOCAL DISCONNECT SWITCH AND MAKE FINAL CONNECTIONS. SEE EQUIPMENT CONNECTION SCHEDULE.
- SIFTER. SEE EQUIPMENT CONNECTION SCHEDULE.
- SCREEN. SEE EQUIPMENT CONNECTION SCHEDULE.
- PLATFORM SCALE. SEE EQUIPMENT CONNECTION SCHEDULE.
- PROVIDE SINGLE 20A, 120V RECEPTACLE MOUNTED AT +10'-0" A.F.F. FOR WALL HYDRANT & PIPING HEAT TRACE. HEAT TRACE EQUIPMENT FURNISHED WITH WALL HYDRANT.
- INSTALL ELECTRIC HAND DRYER. EXACT LOCATION TO BE COORDINATED WITH IDOT. SEE EQUIPMENT CONNECTION SCHEDULE.
- EXHAUST FAN EF-10. PROVIDE COMBINATION DISCONNECT SWITCH AND MOTOR STARTER. SEE EQUIPMENT CONNECTION SCHEDULE.



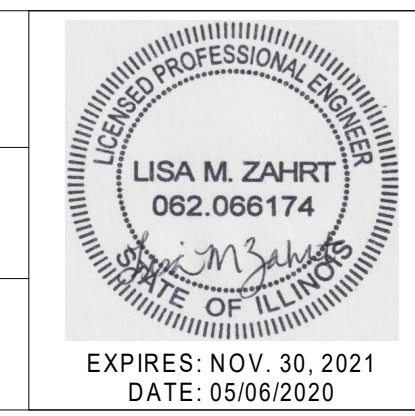
POWER PLAN - AREA A



NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

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POWER AND SYSTEMS PLAN - AREA A
 STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

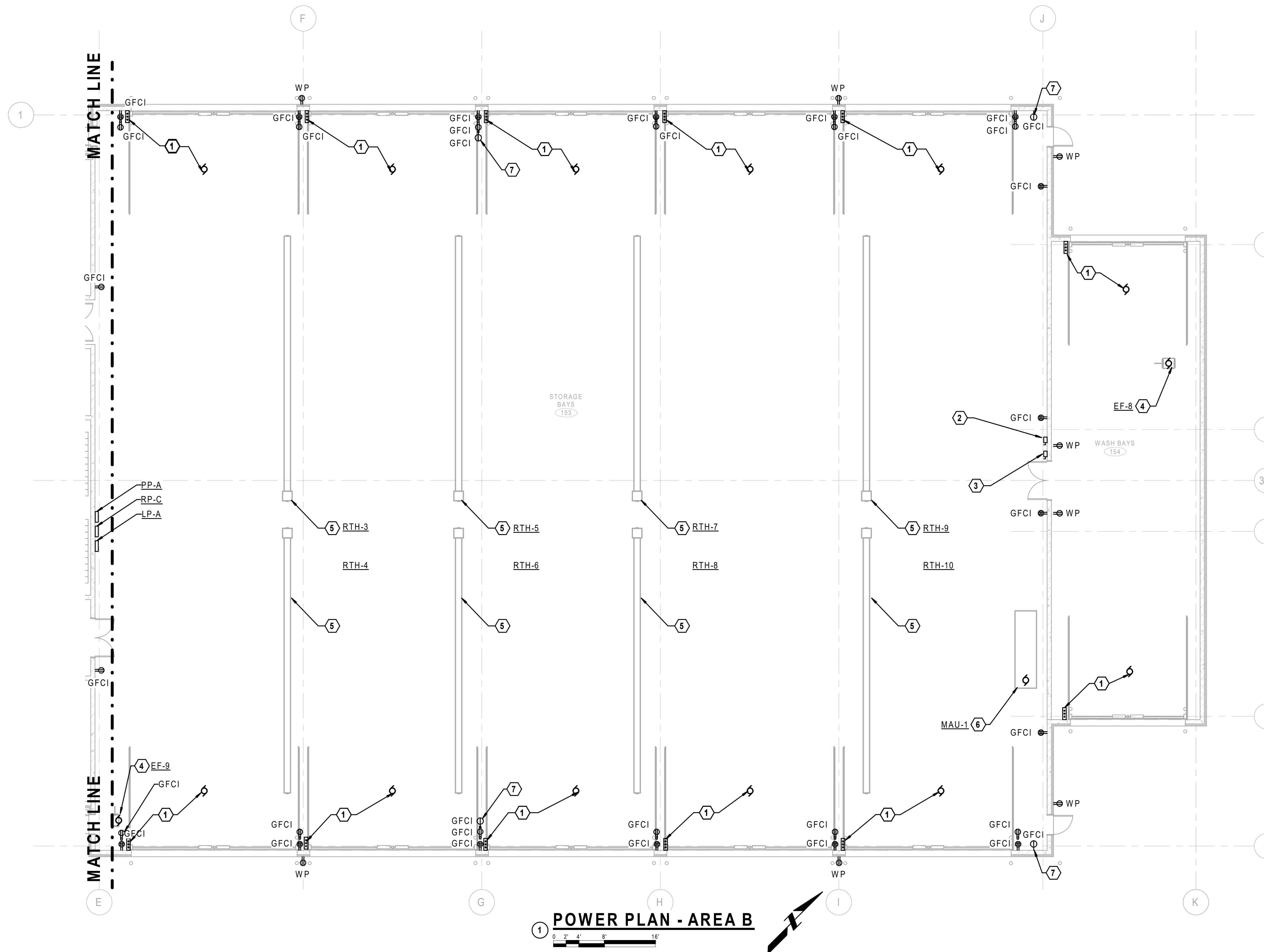
PROJECT NO. 630-128-005
DATE 05/06/2020
SHEET NO. E2.10
OF () SHEETS

NOTES (THIS SHEET)

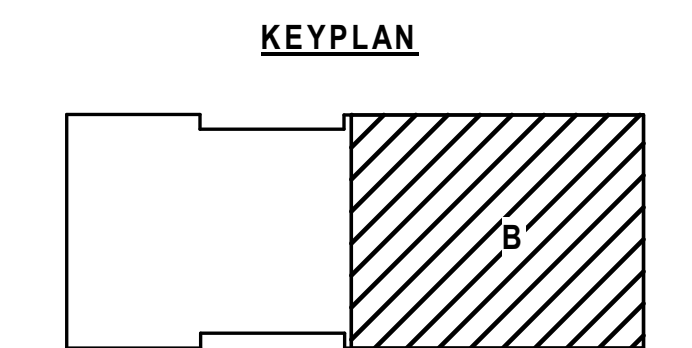
1. REFER TO SHEET E001 FOR ELECTRICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES (THIS SHEET)

- 1 OVERHEAD DOOR OPERATOR AND PUSHBUTTON STATION. PROVIDE FINAL POWER AND CONTROL CONNECTIONS TO DOOR OPERATOR, PUSHBUTTON STATION, LIMIT SWITCHES, AND PROXIMITY SENSORS, ETC. SEE EQUIPMENT CONNECTION SCHEDULE.
- 2 PROVIDE LOCAL DISCONNECT SWITCH FOR PRESSURE WASHER. CONFIRM LOCATION WITH ARCHITECT. SEE EQUIPMENT CONNECTION SCHEDULE.
- 3 PROVIDE LOCAL DISCONNECT SWITCH FOR STEAM GENERATOR. CONFIRM LOCATION WITH ARCHITECT. SEE EQUIPMENT CONNECTION SCHEDULE.
- 4 EXHAUST FAN. PROVIDE DISCONNECT SWITCH AND FINAL CONNECTIONS. SEE EQUIPMENT CONNECTION SCHEDULE.
- 5 RADIANT TUBE HEATER. PROVIDE DISCONNECT SWITCH AND FINAL CONNECTIONS. SEE EQUIPMENT CONNECTION SCHEDULE.
- 6 MAKEUP AIR UNIT #1 MAU-1. PROVIDE DISCONNECT SWITCH AND FINAL CONNECTIONS. SEE EQUIPMENT CONNECTION SCHEDULE.
- 7 PROVIDE SINGLE 20A, 120V RECEPTACLE MOUNTED AT +10'-0" A.F.F. FOR WALL HYDRANT & PIPING HEAT TRACE. HEAT TRACE EQUIPMENT FURNISHED WITH WALL HYDRANT.



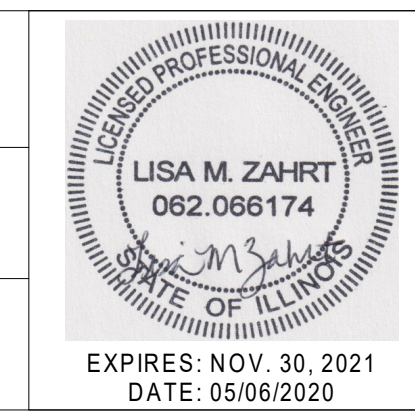
POWER PLAN - AREA B



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POWER AND SYSTEMS PLAN - AREA B
 STEVENSON YARD MAINTENANCE FACILITY
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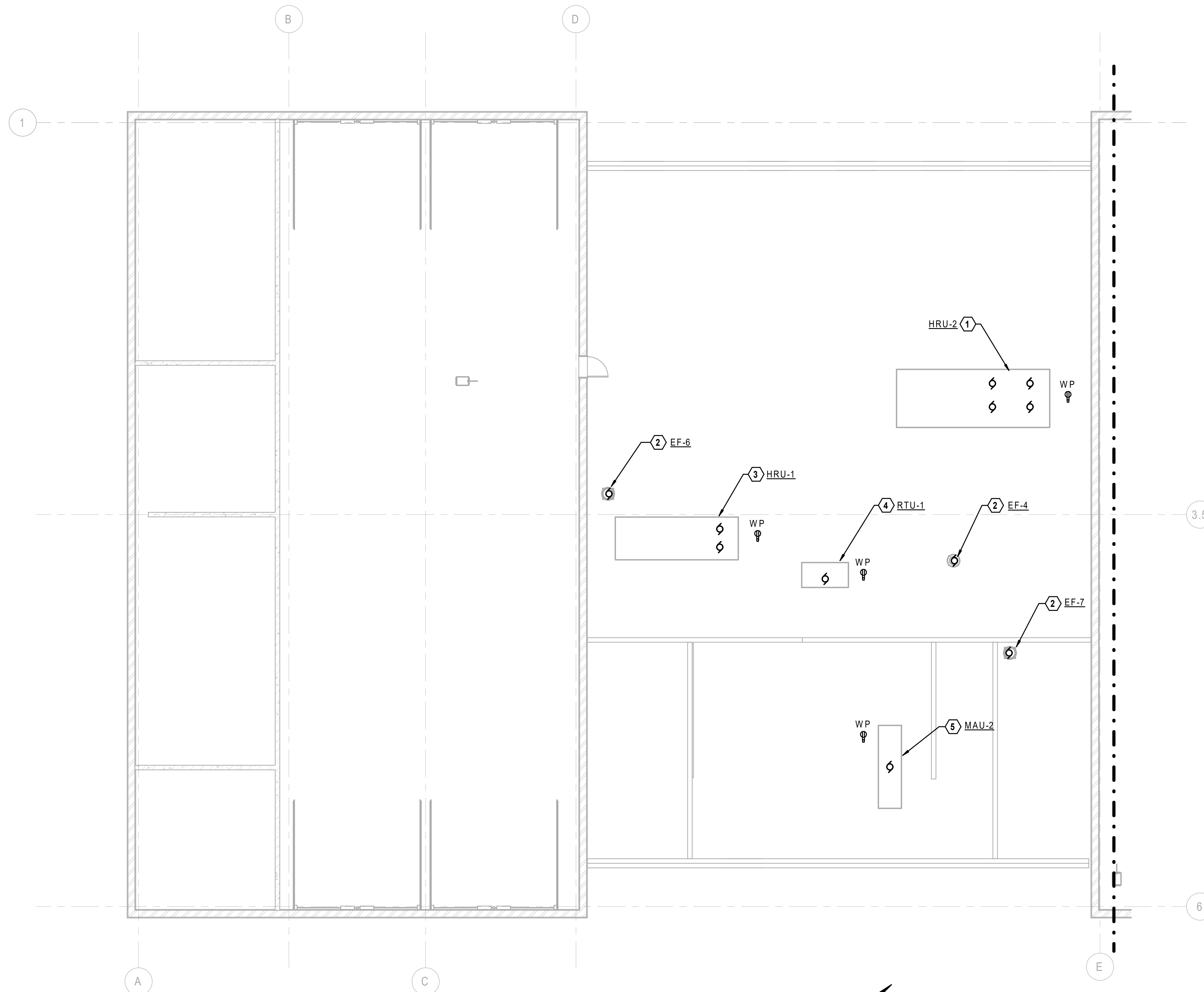
PROJECT NO. 630-128-005
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SHEET NO. E2.11
OF () SHEETS

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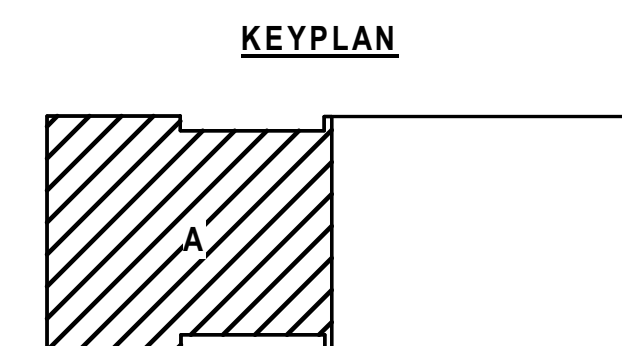
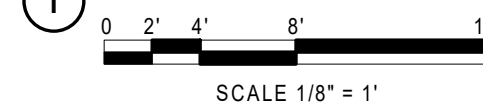
- SEE SHEET E001 FOR ELECTRICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES (THIS SHEET)

- HEAT RECOVERY UNIT #2 HRU-2. PROVIDE DISCONNECT SWITCH. SEE EQUIPMENT CONNECTION SCHEDULE.
- EXHAUST FAN. PROVIDE DISCONNECT SWITCH AND FINAL CONNECTIONS. SEE EQUIPMENT CONNECTION SCHEDULE.
- HEAT RECOVERY UNIT #1 HRU-1. PROVIDE DISCONNECT SWITCH. SEE EQUIPMENT CONNECTION SCHEDULE.
- ROOFTOP UNIT #1 RTU-1. PROVIDE DISCONNECT SWITCH AND FINAL CONNECTIONS. SEE EQUIPMENT CONNECTION SCHEDULE.
- MAKEUP AIR UNIT #2 MAU-2. PROVIDE DISCONNECT SWITCH AND FINAL CONNECTIONS. SEE EQUIPMENT CONNECTION SCHEDULE.



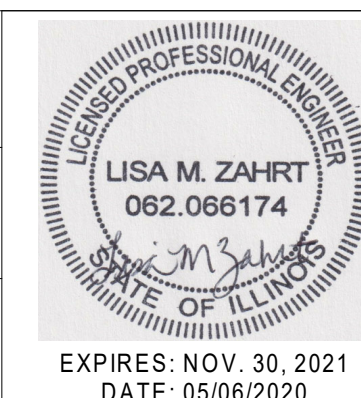
1 POWER AND SYSTEMS PLAN - ROOF AREA A



NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

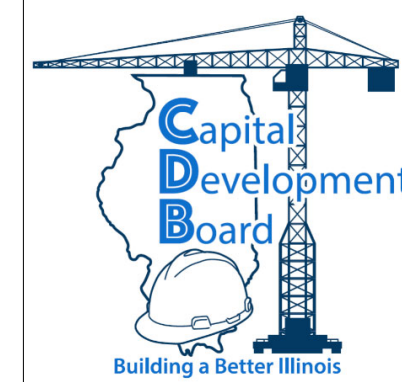
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POWER & SYSTEMS PLAN-ROOF AREA A

STEVENSON YARD MAINTENANCE FACILITY
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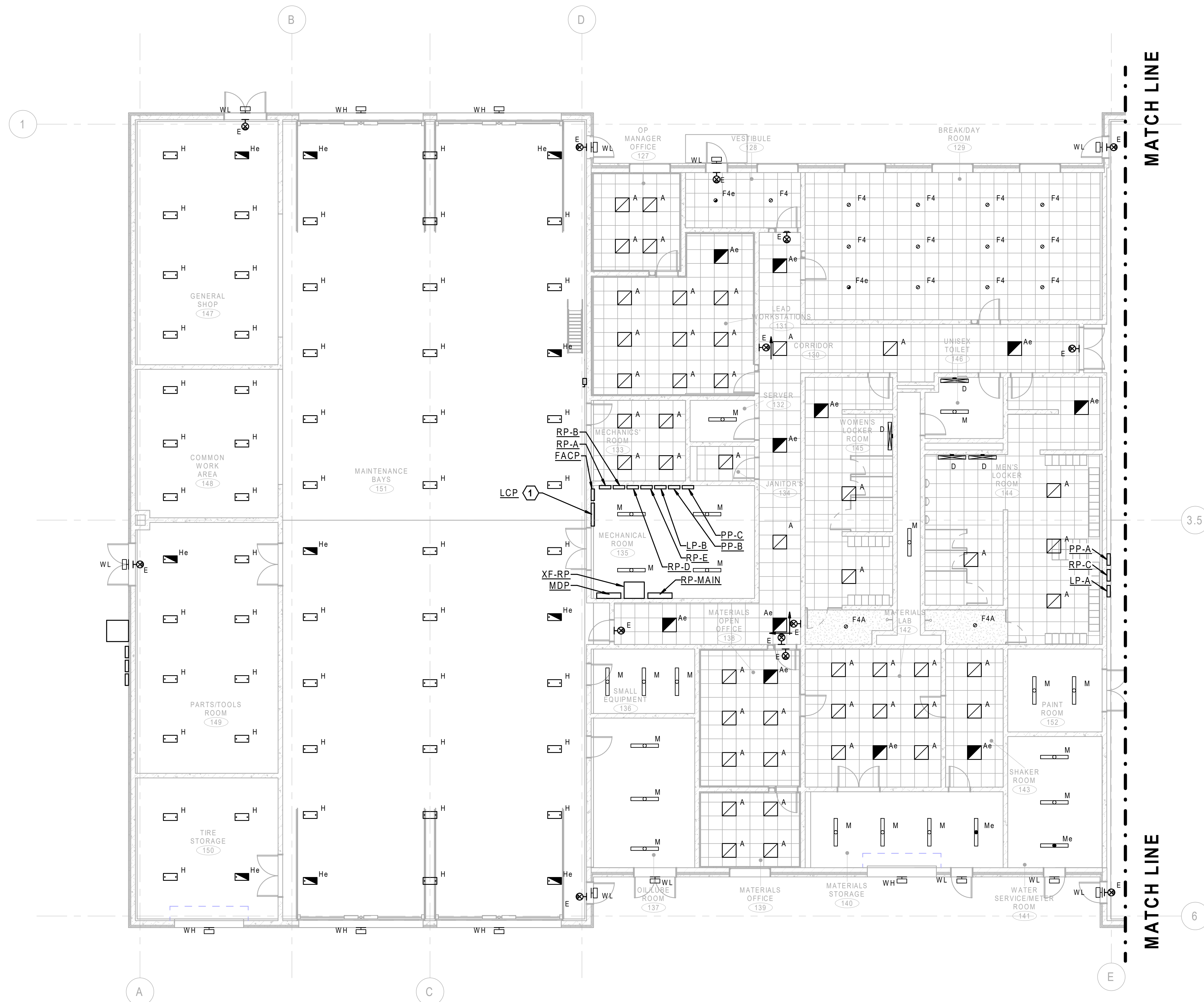
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SHEET NO. E2.12
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NOTES (THIS SHEET)

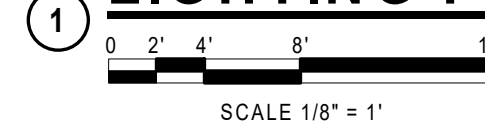
- SEE SHEET E0.01 FOR ELECTRICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- SEE LIGHTING CONTROL SCHEDULE IN SPECIFICATIONS FOR CONTROL OF LIGHTING IN INDIVIDUAL AREAS.

KEYNOTES (THIS SHEET)

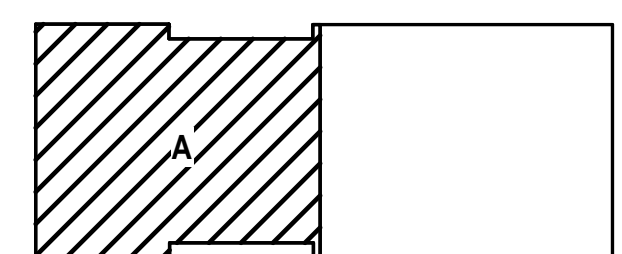
- LIGHTING CONTROL PANEL.



1 LIGHTING PLAN - AREA A



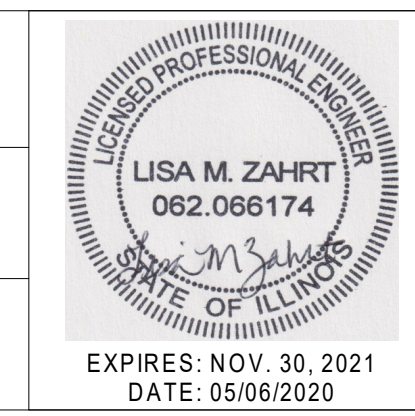
KEYPLAN



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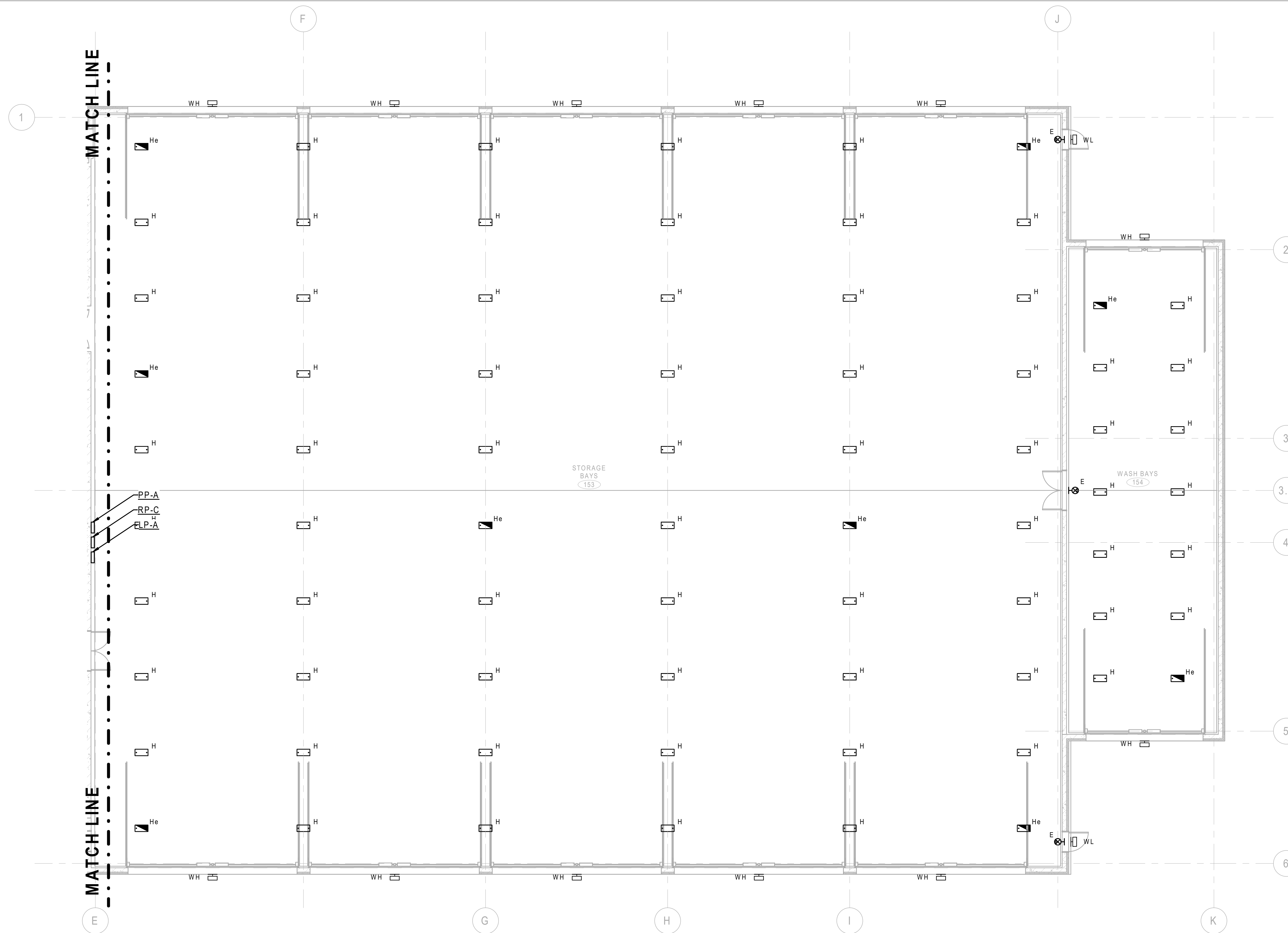
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LIGHTING PLAN - AREA A
 STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

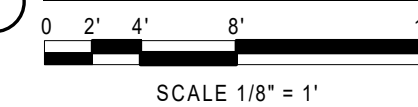
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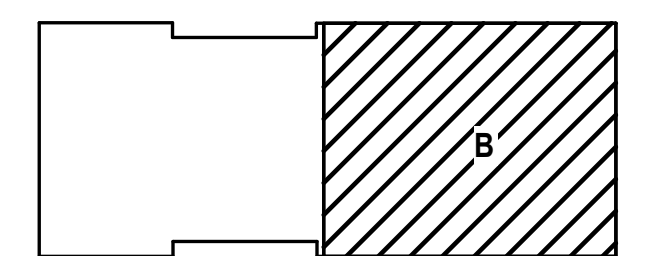
- SEE SHEET E0.01 FOR ELECTRICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- SEE LIGHTING CONTROL SCHEDULE IN SPECIFICATIONS FOR CONTROL OF LIGHTING IN INDIVIDUAL AREAS.



LIGHTING PLAN - AREA B



KEYPLAN



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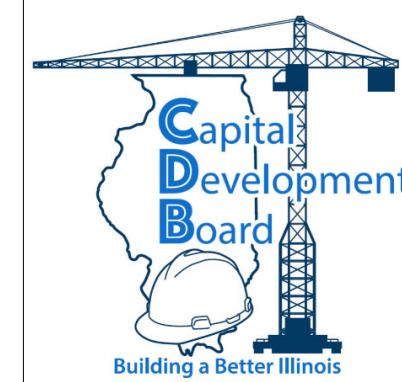
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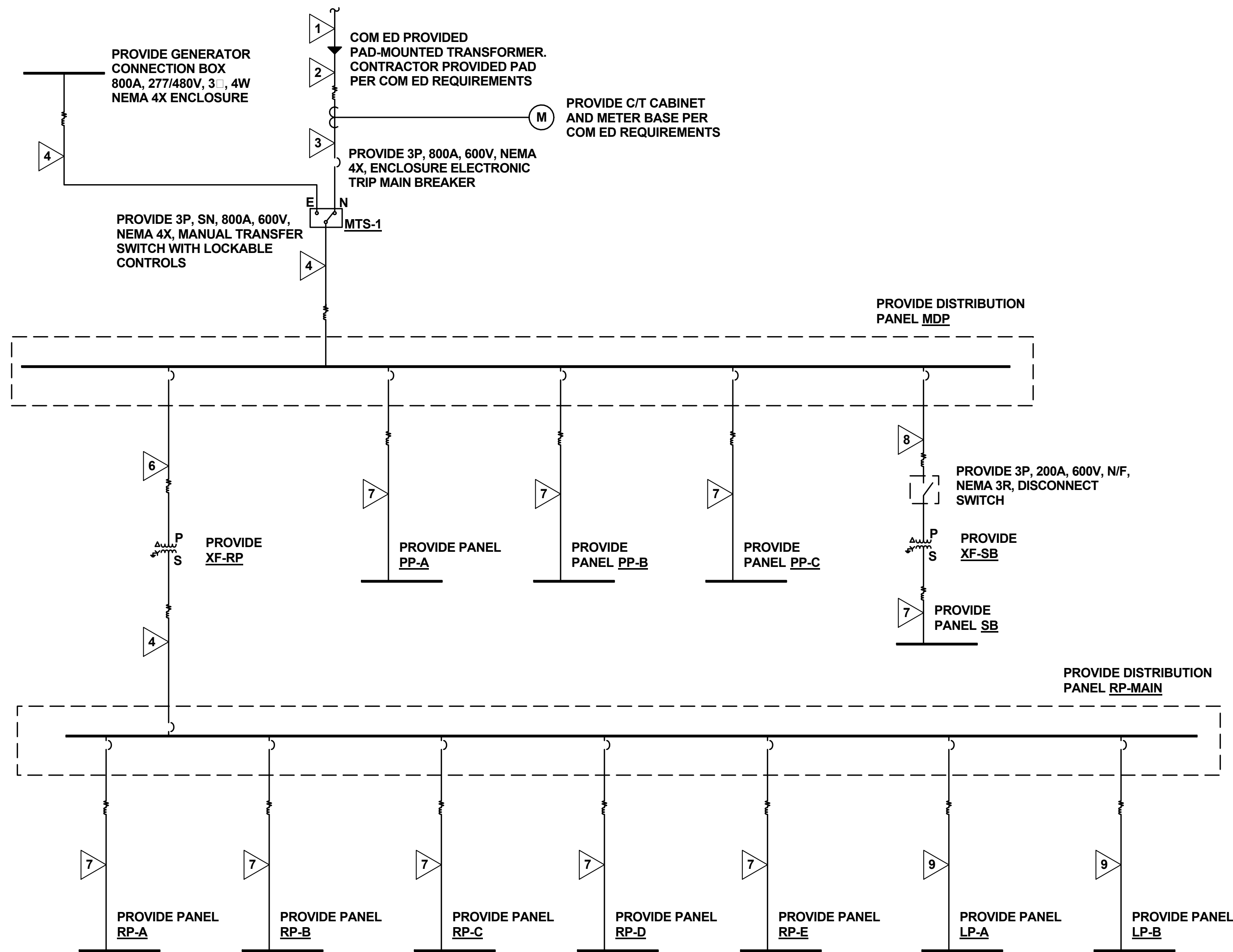


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LIGHTING PLAN - AREA B

STEVENS ON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
DATE 05/06/2020
SHEET NO. E2.21
OF () SHEETS



DRY TYPE TRANSFORMER SCHEDULE

TAG	LOCATION	KVA	PHASE	HZ	PRIMARY WINDING		SECONDARY WINDING		INSUL. CLASS	TEMP. RISE	NOTES
					TYPE	VOLTAGE	TYPE	VOLTAGE			
XF-RP	MECHANICAL ROOM - 135	225	3	60	DELTA	480	WYE	208/120	220	150	NOTE 1
XF-SB	EXISTING BUILDING	75	3	60	DELTA	480	WYE	208/120	220	150	NOTE 1

NOTES:
1. PROVIDE 4' CONCRETE HOUSEKEEPING PAD FOR TRANSFORMER.

FEEDER SCHEDULE

MARK	FEEDER		CONDUIT		CONDUCTOR			GROUND		NOTES
	RATING (A) / WIRE (W)	QTY	SIZE	TYPE	SETS	NO. PER SET	SIZE	SETS	SIZE	
1	PRIMARY CONDUIT	2	4"	PVC, SCHEDULE 80	---	---	---	---	---	1
2	800/4	2	4"	RGS/PVC, SCHED 80	2	4	#600MCM	2	#3/0	
3	800/4	2	4"	RGS	2	4	#600MCM	2	#1/0	
4	800/4	2	3 1/2"	RGS	2	4	#600MCM	2	#1/0	
5	600/4	2	3"	RGS	2	4	#350MCM	2	#1	
6	400/3	1	3 1/2"	RGS	1	3	#600MCM	1	#3	
7	200/4	1	2"	RGS	1	4	#3/0	1	#4	
8	150/3	1	1 1/4"	RGS	1	3	#1/0	1	#6	
9	100/4	1	1 1/4"	RGS	1	4	#3	1	#8	

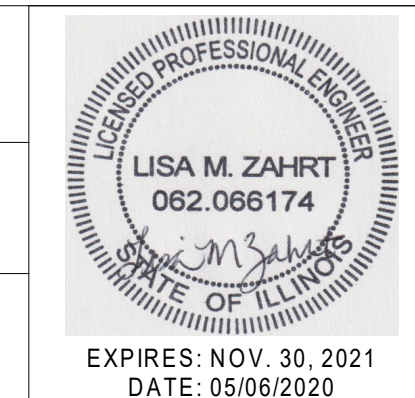
NOTES:
1. PROVIDE EMPTY CONDUIT WITH PULL STRINGS. PRIMARY CABLES PROVIDED BY UTILITY COMPANY. COORDINATE WITH UTILITY COMPANY.

ELECTRICAL FEEDER ONE LINE DIAGRAM
1. N.T.S.

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ELECTRICAL FEEDER ONE LINE
STEVENS ON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

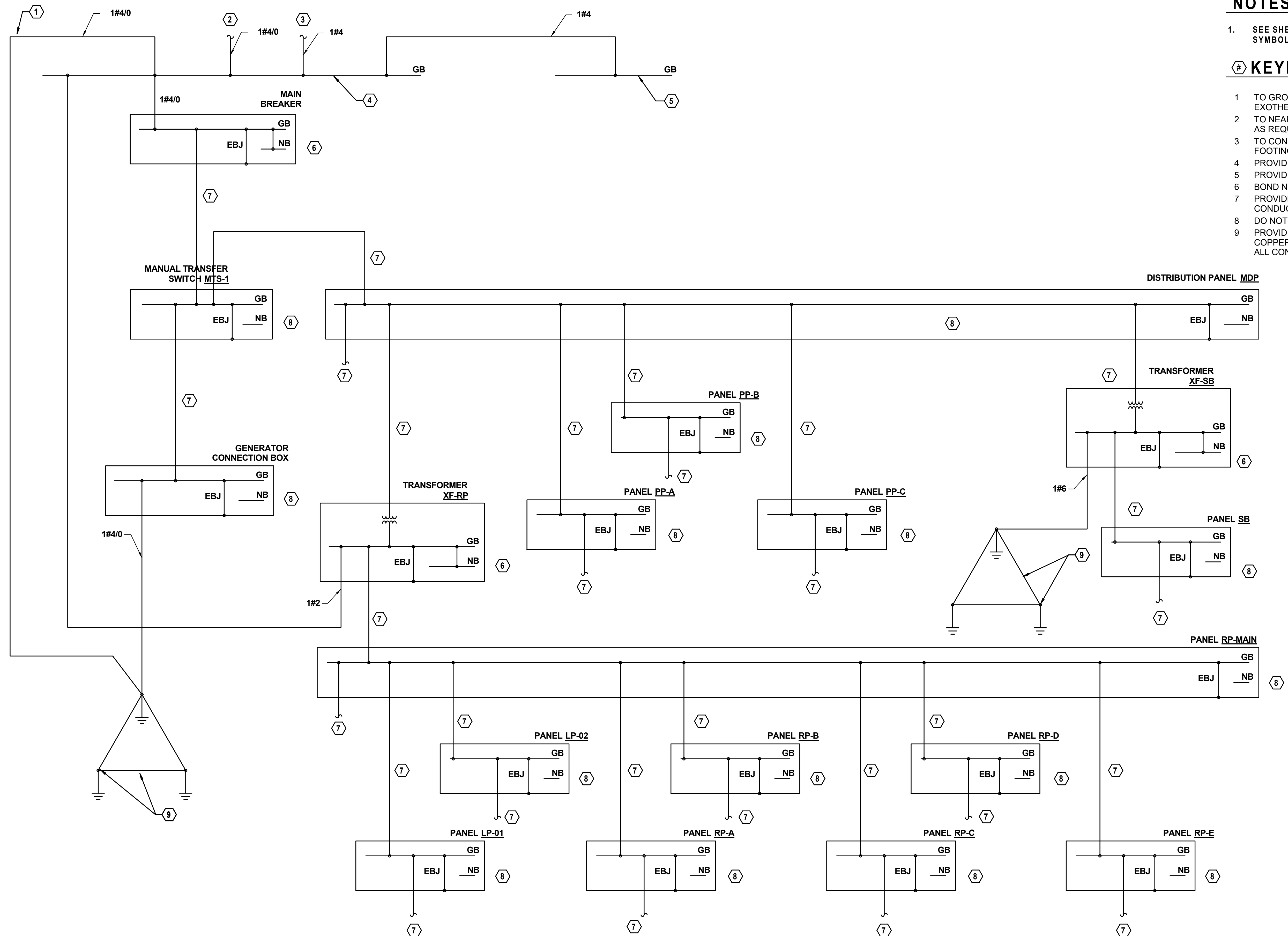
PROJECT NO.
630-128-005
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SHEET NO.
E3.10
OF () SHEETS

NOTES (THIS SHEET)

- SEE SHEET E0.01 FOR ELECTRICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES (THIS SHEET)

- TO GROUNDING TRIAD. CONNECTIONS TO GROUNDING TRIAD SHALL BE BY EXOTHERMIC WELD.
- TO NEAREST METAL UNDERGROUND WATER PIPE. PROVIDE LISTED CLAMP AS REQUIRED FOR CONNECTION TO WATER PIPE.
- TO CONCRETE ENCASED GROUNDING ELECTRODE LOCATED IN CONCRETE FOOTING. (COORDINATE INSTALLATION WITH GENERAL CONTRACTOR).
- PROVIDE 2" x 1/4" x 24" GROUND BUS LOCATED IN MECHANICAL ROOM - 135.
- PROVIDE 2" x 1/4" x 24" GROUND BUS LOCATED IN SERVER ROOM - 132.
- BOND NEUTRAL BUS TO GROUND BUS.
- PROVIDE EQUIPMENT GROUNDING CONDUCTOR ROUTED WITH PHASE CONDUCTORS. SIZE PER NATIONAL ELECTRICAL CODE.
- DO NOT BOND NEUTRAL BUS TO GROUND BUS.
- PROVIDE GROUNDING TRIAD CONSISTING OF (3)-3/4" DIAMETER x 10' LONG COPPERCLAD GROUND RODS INTERCONNECTED WITH #4/0 BARE COPPER. ALL CONNECTIONS SHALL BE EXOTHERMIC TYPE.



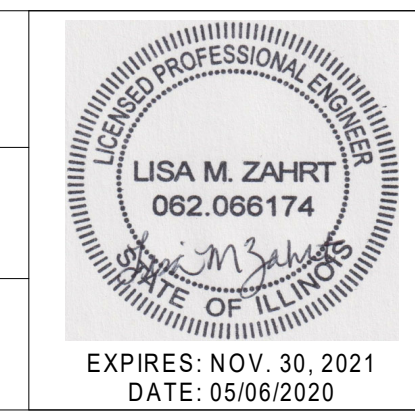
1 ELECTRICAL GROUNDING ONE LINE DIAGRAM

N.T.S.

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State of Illinois
JB PRITZKER, GOVERNOR
 Illinois Capital Development Board

ELECTRICAL GROUNDING ONE LINE
 STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
DATE 05/06/2020
SHEET NO. E3.11
OF () SHEETS

DISTRIBUTION PANEL MDP SCHEDULE

PANEL: MDP OC DEVICE: BREAKER ENCL: NEMA 1 BUS RATING (A): 800A
 LOCATION: MECHANICAL RM. PANEL TYPE: BOLT-ON MTG: SURFACE WITHSTAND (A): 100,000A
 FED FROM: MAIN BREAKER MAIN BRKR: MAIN LUGS L-L L-N
 WIRING: 4W+G VOLTAGE: 480 277

CCT	P	AMPS	LOAD DESCRIPTION	NOTES	LOAD (VA)	A	B	C	LOAD (VA)	NOTES	LOAD DESCRIPTION	AMPS	P	CCT	
1					12700	45950			33250		PANEL <u>PP-A</u>	200	3	2	
3		200			12700		45950		33250					4	
5					12700			45950	33250					6	
7					75000	92250			17250		PANEL <u>PP-B</u>	200	3	8	
9		350			75000		92250		17250					10	
11					75000			92250	17250					12	
13						25000			25000					14	
15							25000		25000		TRANSFORMER <u>XF-SB</u>	110	3	16	
17								25000	25000					18	
19					0									20	
21						0								22	
23							0							24	
25					0									26	
27							0							28	
29								0						30	
31									0					32	
33														34	
35														36	
37														38	
39														40	
41														42	
					TOTAL VA PER PHASE:	163,200	163,200	163,200						TOTAL VA THIS PANEL:	489,600
					TOTAL AMPS PER PHASE:	589	589	589							

NOTES:
 1. ALL BREAKERS TO BE ELECTRONIC TRIP TYPE BREAKERS.

DISTRIBUTION PANEL RP-MAIN SCHEDULE

PANEL: RP-MAIN OC DEVICE: BREAKER ENCL: NEMA 1 BUS RATING (A): 600A
 LOCATION: MECHANICAL RM. PANEL TYPE: BOLT-ON MTG: SURFACE WITHSTAND (A): 100,000A
 FED FROM: TRANSF. XF-RP MAIN BRKR: 3P, 800A L-L L-N
 WIRING: 4W+G VOLTAGE: 208 120

CCT	P	AMPS	LOAD DESCRIPTION	NOTES	LOAD (VA)	A	B	C	LOAD (VA)	NOTES	LOAD DESCRIPTION	AMPS	P	CCT	
1					0									2	
3						0					PANEL <u>RP-B</u>			4	
5							0							6	
7								0						8	
9						0					PANEL <u>RP-C</u>			10	
11														12	
13						0					PANEL <u>RP-D</u>			14	
15														16	
17							0				PANEL <u>LP-A</u>			18	
19														20	
21						0								22	
23														24	
25														26	
27														28	
29														30	
31														32	
33														34	
35														36	
37														38	
39														40	
41														42	
					TOTAL VA PER PHASE:	0	0	0						TOTAL VA THIS PANEL:	-
					TOTAL AMPS PER PHASE:	0	0	0							

NOTES:
 1. ALL BREAKERS TO BE ELECTRONIC TRIP TYPE BREAKERS.

PANEL SB SCHEDULE

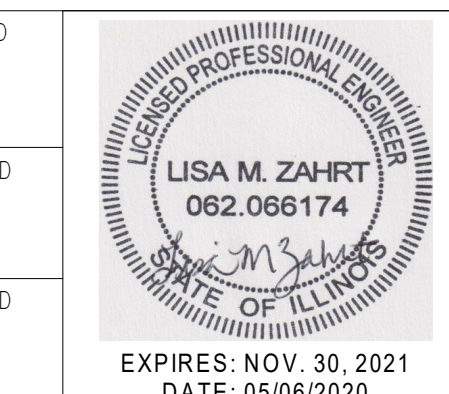
PANEL: SB OC DEVICE: BREAKER ENCL: NEMA 1 BUS RATING (A): 225A
 LOCATION: STORAGE BLDG. PANEL TYPE: BOLT-ON MTG: SURFACE WITHSTAND (A): 10,000A
 FED FROM: TRANSF. XF-SB MAIN BRKR: MAIN LUGS L-L L-N
 WIRING: 4W+G VOLTAGE: 208 120

CCT	P	AMPS	LOAD DESCRIPTION	NOTES	LOAD (VA)	A	B	C	LOAD (VA)	NOTES	LOAD DESCRIPTION	AMPS	P	CCT	
1					0									2	
3							0							4	
5								0						6	
7														8	
9														10	
11														12	
13														14	
15														16	
17														18	
19														20	
21														22	
23														24	
25														26	
27														28	
29														30	
31														32	
33														34	
35														36	
37														38	
39														40	
41														42	
					TOTAL VA PER PHASE:	0	0	0						TOTAL VA THIS PANEL:	-
					TOTAL AMPS PER PHASE:	0	0	0							

NOTES:
 1. PANEL SB SHALL FEED ALL LIGHTING, RECEPTACLES AND 120/208 VOLT EQUIPMENT LOCATED IN THE EXISTING BUILDING AND SALT DOME.
 2. PROVIDE A MINIMUM OF 4-1P, 20A SPARE BREAKERS.

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

REVISIONS			
NO.	DATE	REMARKS	
A	5/6/20	FINAL BRIDGING DOCUMENTS	Checker



State of Illinois
JB PRITZKER, GOVERNOR
 Illinois Capital Development Board

ELECTRICAL SCHEDULES		PROJECT NO. 630-128-005
STEVENS ON YARD MAINTENANCE FACILITY BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION) ILLINOIS DEPARTMENT OF TRANSPORTATION MCCOOK, COOK COUNTY, ILLINOIS 60525		DATE 05/06/2020
SHEET NO. E4.10		SHEET NO.
		OF () SHEETS

PANEL LP-A SCHEDULE

PANEL: LP-A OC DEVICE: BREAKER ENCL: NEMA 1 BUS RATING (A): 100A
 LOCATION: STORAGE BAYS PANEL TYPE: BOLT-ON MTG: SURFACE WITHSTAND (A): 10,000A
 FED FROM: PANEL RP-MAIN MAIN BRKR: MAIN LUGS L-L L-N
 WIRING: 4W+G VOLTAGE: 208 120

CCT	P	AMPS	LOAD DESCRIPTION	NOTES	LOAD (VA)	A	B	C	LOAD (VA)	NOTES	LOAD DESCRIPTION	AMPS	P	CCT
1					3000	3000								2
3					3000		3000							4
5					3000			3000						6
7					0									8
9						0								10
11							0							12
13						0								14
15							0							16
17								0						18
19						0								20
21							0							22
23								0						24
25						0								26
27							0							28
29								0						30
31						0								32
33							0							34
35								0						36
37						0								38
39							0							40
41								0						42
TOTAL VA PER PHASE:					3,000	3,000	3,000	TOTAL VA THIS PANEL:					9,000	
TOTAL AMPS PER PHASE:					25	25	25							

NOTES:
 1. ALL LIGHTING BRANCH CIRCUITS SHALL BE EXTENDED THROUGH THE LIGHTING CONTROL CABINET WITH A LOW VOLTAGE RELAY CONTROLLING EACH CIRCUIT IN THE LIGHTING CONTROL CABINET. ALL ASSOCIATED CONTROLS (TIME CLOCKS, SWITCHES, OCCUPANCY SENSORS, ETC.) SHALL CONTROL THESE RELAYS IN THE LIGHTING CONTROL CABINET.
 2. PANEL LP-A SHALL FEED AND CONTROL ALL LIGHTING EAST OF COLUMN LINE "E" ON THE PLANS.
 3. PROVIDE A MINIMUM OF 4-1P,20A SPARE BREAKERS.

PANEL LP-B SCHEDULE

PANEL: LP-B OC DEVICE: BREAKER ENCL: NEMA 1 BUS RATING (A): 100A
 LOCATION: MECHANICAL RM. PANEL TYPE: BOLT-ON MTG: SURFACE WITHSTAND (A): 10,000A
 FED FROM: PANEL RP-MAIN MAIN BRKR: MAIN LUGS L-L L-N
 WIRING: 4W+G VOLTAGE: 208 120

CCT	P	AMPS	LOAD DESCRIPTION	NOTES	LOAD (VA)	A	B	C	LOAD (VA)	NOTES	LOAD DESCRIPTION	AMPS	P	CCT
1					0									2
3							0							4
5								0						6
7						0								8
9							0							10
11								0						12
13						0								14
15							0							16
17								0						18
19						0								20
21							0							22
23								0						24
25						0								26
27							0							28
29								0						30
31						0								32
33							0							34
35								0						36
37						0								38
39							0							40
41								0						42
TOTAL VA PER PHASE:					0	0	0	TOTAL VA THIS PANEL:					-	
TOTAL AMPS PER PHASE:					0	0	0							

NOTES:
 1. ALL LIGHTING BRANCH CIRCUITS SHALL BE EXTENDED THROUGH THE LIGHTING CONTROL CABINET WITH A LOW VOLTAGE RELAY CONTROLLING EACH CIRCUIT IN THE LIGHTING CONTROL CABINET. ALL ASSOCIATED CONTROLS (TIME CLOCKS, SWITCHES, OCCUPANCY SENSORS, ETC.) SHALL CONTROL THESE RELAYS IN THE LIGHTING CONTROL CABINET.
 2. PANEL LP-B SHALL FEED AND CONTROL ALL LIGHTING WEST OF COLUMN LINE "E" ON THE PLANS.
 3. PROVIDE A MINIMUM OF 4-1P,20A SPARE BREAKERS.

PANEL PP-A SCHEDULE

PANEL: PP-A OC DEVICE: BREAKER ENCL: NEMA 1 BUS RATING (A): 225A
 LOCATION: STORAGE BAYS PANEL TYPE: BOLT-ON MTG: SURFACE WITHSTAND (A): 42,000A
 FED FROM: DIST. PNL. MDP MAIN BRKR: MAIN LUGS L-L L-N
 WIRING: 4W+G VOLTAGE: 480 277

CCT	P	AMPS	LOAD DESCRIPTION	NOTES	LOAD (VA)	A	B	C	LOAD (VA)	NOTES	LOAD DESCRIPTION	AMPS	P	CCT
1					6600	13200			6600					2
3	3	30	TRUCK WASH PRESSURE WASHER		6600		13200		6600		TRUCK WASH PRESSURE WASHER	30	3	4
5					6600			13200	6600					6
7					0									8
9						0								10
11							0							12
13						0								14
15							0							16
17								0						18
19						0								20
21							0							22
23								0						24
25						0								26
27							0							28
29								0						30
31						0								32
33							0							34
35								0						36
37						0								38
39							0							40
41								0						42
TOTAL VA PER PHASE:					13,200	13,200	13,200	TOTAL VA THIS PANEL:					39,600	
TOTAL AMPS PER PHASE:					48	48	48							

NOTES:
 1. PANEL PP-A SHALL FEED ALL 480 VOLT EQUIPMENT EAST OF COLUMN LINE "E" ON THE PLANS.

PANEL PP-B SCHEDULE

PANEL: PP-B OC DEVICE: BREAKER ENCL: NEMA 1 BUS RATING (A): 225A
 LOCATION: MECHANICAL RM. PANEL TYPE: BOLT-ON MTG: SURFACE WITHSTAND (A): 42,000A
 FED FROM: PANEL PP-MAIN MAIN BRKR: MAIN LUGS L-L L-N
 WIRING: 4W+G VOLTAGE: 480 277

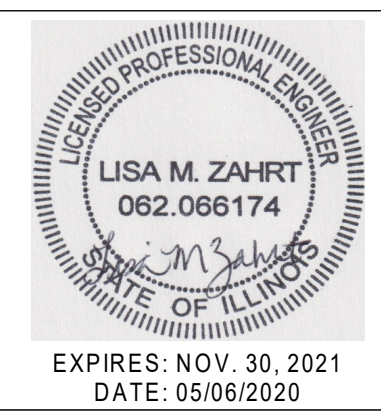
CCT	P	AMPS	LOAD DESCRIPTION	NOTES	LOAD (VA)	A	B	C	LOAD (VA)	NOTES	LOAD DESCRIPTION	AMPS	P	CCT
1					13000	16850			3850					2
3	3	60	AIR COMPRESSOR		13000		16850		3850		HEAT RECOVERY UNIT #1	20	3	4
5					13000			16850	3850					6
7					10550		10550							8
9	3	45	HEAT RECOVERY UNIT #2		10550			10550			MAKEUP AIR UNIT #2	3	3	10
11					10550				10550					12
13					5850	5850								14
15	3	35	ROOF TOP UNIT #1		5850		5850							16
17					5850			5850						18
19						0								20
21							0							22
23								0						24
25						0								26
27							0							28
29								0						30
31						0								32
33							0							34
35								0						36
37						0								38
39							0							40
41								0						42
TOTAL VA PER PHASE:					33,250	33,250	33,250	TOTAL VA THIS PANEL:					99,750	
TOTAL AMPS PER PHASE:					120	120	120							

NOTES:
 1. PANEL PP-B SHALL FEED ALL 480 VOLT EQUIPMENT BETWEEN COLUMN LINES "D" AND "E" ON THE PLANS.

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

REVISIONS		
NO.	DATE	REMARKS
A	5/6/20	FINAL BRIDGING DOCUMENTS

DRAWN TAS	PREPARED
TRACED	APPROVED
CHECKED	APPROVED
Checker	



State of Illinois
JB PRITZKER, GOVERNOR
 Illinois Capital Development Board

ELECTRICAL SCHEDULES

STEVENS ON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
 DATE 05/06/2020
 SHEET NO. **E4.11**
 OF () SHEETS

PANEL PP-C SCHEDULE														
PANEL: <u>PP-C</u>				OC DEVICE: BREAKER		ENCL: NEMA 1		BUS RATING (A): 225A						
LOCATION: MECHANICAL RM.				PANEL TYPE: BOLT-ON		MTG: SURFACE		WITHSTAND (A): 42,000A						
FED FROM: DIST. PNL. <u>MDP</u>				MAIN BRKR: MAIN LUGS		L-L L-N								
				WIRING: 4W+G		VOLTAGE: 480 277								
CCT	P	AMPS	LOAD DESCRIPTION	NOTES	LOAD (VA)	A	B	C	LOAD (VA)	NOTES	LOAD DESCRIPTION	AMPS	P	CCT
1					8300	16600			8300		VEHICLE LIFT #1	40	3	2
3					8300		16600		8300		VEHICLE LIFT #2	40	3	4
5					8300			16600	8300					6
7					650	650								8
9					650		650							10
11					650			650						12
13					0									14
15					0		0							16
17					0			0						18
19					0			0						20
21					0		0							22
23					0			0						24
25					0			0						26
27					0		0							28
29					0			0						30
31					0			0						32
33					0		0							34
35					0			0						36
37					0			0						38
39					0		0							40
41					0			0						42
TOTAL VA PER PHASE:					17,250	17,250	17,250	TOTAL VA THIS PANEL:			51,750			
TOTAL AMPS PER PHASE:					62	62	62							

NOTES:
1. PANEL PP-C SHALL FEED ALL 480 VOLT EQUIPMENT WEST OF COLUMN LINE "D" ON THE PLANS.

PANEL RP-B SCHEDULE														
PANEL: <u>RP-B</u>				OC DEVICE: BREAKER		ENCL: NEMA 1		BUS RATING (A): 225A						
LOCATION: MECHANICAL RM.				PANEL TYPE: BOLT-ON		MTG: SURFACE		WITHSTAND (A): 10,000A						
FED FROM: PANEL <u>RP-MAIN</u>				MAIN BRKR: MAIN LUGS		L-L L-N								
				WIRING: 4W+G		VOLTAGE: 208 120								
CCT	P	AMPS	LOAD DESCRIPTION	NOTES	LOAD (VA)	A	B	C	LOAD (VA)	NOTES	LOAD DESCRIPTION	AMPS	P	CCT
1					875	1575			700		GILSON SILENT SIFTER	20	1	2
3					1250		1950		700		GILSON SILENT SIFTER	20	1	4
5					2000			4400	2400		AGGREGATE WASHER	40	1	6
7					2000	4000			2000		BENCHTOP CONVECTION OVEN	30	2	8
9							2000		2000		BENCHTOP CONVECTION OVEN	30	2	10
11								0						12
13					0									14
15					0		0							16
17					0			0						18
19					0			0						20
21					0		0							22
23					0			0						24
25					0			0						26
27					0		0							28
29					0			0						30
31					0			0						32
33					0		0							34
35					0			0						36
37					0			0						38
39					0		0							40
41					0			0						42
TOTAL VA PER PHASE:					5,575	3,950	4,400	TOTAL VA THIS PANEL:			13,925			
TOTAL AMPS PER PHASE:					46	33	37							

NOTES:
1. PANEL RP-B SHALL FEED ALL RECEPTACLES AND 120/208 VOLT EQUIPMENT SOUTH OF THE CORRIDOR AND BETWEEN COLUMN LINES "D" AND "E" ON THE PLANS.
2. PROVIDE A MINIMUM OF 4-1P,20A SPARE BREAKERS.

PANEL RP-A SCHEDULE														
PANEL: <u>RP-A</u>				OC DEVICE: BREAKER		ENCL: NEMA 1		BUS RATING (A): 225A						
LOCATION: MECHANICAL RM.				PANEL TYPE: BOLT-ON		MTG: SURFACE		WITHSTAND (A): 10,000A						
FED FROM: PANEL <u>RP-MAIN</u>				MAIN BRKR: MAIN LUGS		L-L L-N								
				WIRING: 4W+G		VOLTAGE: 208 120								
CCT	P	AMPS	LOAD DESCRIPTION	NOTES	LOAD (VA)	A	B	C	LOAD (VA)	NOTES	LOAD DESCRIPTION	AMPS	P	CCT
1					0									2
3					0		0							4
5					0			0						6
7					0									8
9					0		0							10
11					0			0						12
13					0									14
15					0		0							16
17					0			0						18
19					0									20
21					0		0							22
23					0			0						24
25					0									26
27					0		0							28
29					0			0						30
31					0									32
33					0		0							34
35					0			0						36
37					0									38
39					0		0							40
41					0			0						42
TOTAL VA PER PHASE:					0	0	0	TOTAL VA THIS PANEL:			-			
TOTAL AMPS PER PHASE:					0	0	0							

NOTES:
1. PANEL RP-A SHALL FEED ALL RECEPTACLES NORTH OF THE CORRIDOR AND BETWEEN COLUMN LINES "D" AND "E" ON THE PLANS.
2. PROVIDE A MINIMUM OF 4-1P,20A SPARE BREAKERS.

PANEL RP-C SCHEDULE														
PANEL: <u>RP-C</u>				OC DEVICE: BREAKER		ENCL: NEMA 1		BUS RATING (A): 225A						
LOCATION: STORAGE BAYS				PANEL TYPE: BOLT-ON		MTG: SURFACE		WITHSTAND (A): 10,000A						
FED FROM: PANEL <u>RP-MAIN</u>				MAIN BRKR: MAIN LUGS		L-L L-N								
				WIRING: 4W+G		VOLTAGE: 208 120								
CCT	P	AMPS	LOAD DESCRIPTION	NOTES	LOAD (VA)	A	B	C	LOAD (VA)	NOTES	LOAD DESCRIPTION	AMPS	P	CCT
1					375	750			375		OVERHEAD DOOR #11 OPERATOR	20	2	2
3					375		750		375		OVERHEAD DOOR #11 OPERATOR	20	2	4
5					375			750	375		OVERHEAD DOOR #12 OPERATOR	20	2	6
7					375	750			375		OVERHEAD DOOR #12 OPERATOR	20	2	8
9					375		1995		1620		STORAGE BAY RECEPTACLES	20	1	10
11					375			1995	1620		STORAGE BAY RECEPTACLES	20	1	12
13					375	1995			1620		STORAGE BAY RECEPTACLES	20	1	14
15					375		1995		1620		STORAGE BAY RECEPTACLES	20	1	16
17					375			1815	1440		STORAGE BAY RECEPTACLES	20	1	18
19					375	735			360		WASH BAY RECEPTACLES	20	1	20
21					375		1275		900		STORAGE BAY RECEPTACLES	20	1	22
23					375			1175	800		NORTH RADIANT TUBE HEATERS	20	1	24
25					375	1175			800		SOUTH RADIANT TUBE HEATERS	20	1	26
27					375		675		300					28
29					375			675	300		EXHAUST FAN EF-8	15	3	30
31					375	675			300					32
33					375		1075		700		EXHAUST FAN EF-9	15	1	34
35					375			375						36
37					375	375								38
39					375		375							40
41					0			0						42
TOTAL VA PER PHASE:					6,455	8,140	6,785	TOTAL VA THIS PANEL:			21,380			
TOTAL AMPS PER PHASE:					54	68	56							

NOTES:
1. PANEL RP-C SHALL FEED ALL RECEPTACLES AND OVERHEAD DOOR OPERATORS AND 120 OR 208 VOLT EQUIPMENT EAST OF COLUMN LINE "E" ON THE PLANS.
2. PROVIDE A MINIMUM OF 4-1P,20A SPARE BREAKERS.

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

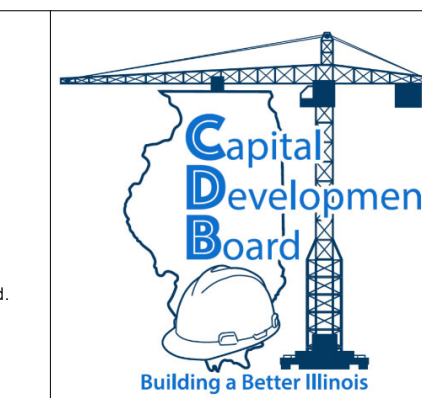
REVISIONS		
NO.	DATE	REMARKS
A	5/6/20	FINAL BRIDGING DOCUMENTS

DRAWN	TAS	PREPARED
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ELECTRICAL SCHEDULES

STEVENS ON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
DATE 05/06/2020
SHEET NO. E4.12
OF () SHEETS

PANEL RP-D SCHEDULE

PANEL: RP-D OC DEVICE: BREAKER ENCL: NEMA 1 BUS RATING (A): 225A
 LOCATION: MECHANICAL RM. PANEL TYPE: BOLT-ON MTG: SURFACE WITHSTAND (A): 10,000A
 FED FROM: PANEL RP-MAIN MAIN BRKR: MAIN LUGS L-L L-N
 WIRING: 4W+G VOLTAGE: 208 120

CCT	P	AMPS	LOAD DESCRIPTION	NOTES	LOAD (VA)	A	B	C	LOAD (VA)	NOTES	LOAD DESCRIPTION	AMPS	P	CCT	
1						0								2	
3							0							4	
5								0						6	
7						0								8	
9							0							10	
11								0						12	
13						0								14	
15							0							16	
17								0						18	
19						0								20	
21							0							22	
23								0						24	
25						0								26	
27							0							28	
29								0						30	
31						0								32	
33							0							34	
35								0						36	
37						0								38	
39							0							40	
41								0						42	
TOTAL VA PER PHASE:						0	0	0	TOTAL VA THIS PANEL:						-
TOTAL AMPS PER PHASE:						0	0	0	TOTAL AMPS PER PHASE:						-

NOTES:
 1. PANEL RP-D SHALL FEED ALL RECEPTACLES WEST OF COLUMN LINE "D" ON THE PLANS.
 2. PROVIDE A MINIMUM OF 4-1P,20A SPARE BREAKERS.

PANEL RP-E SCHEDULE

PANEL: RP-E OC DEVICE: BREAKER ENCL: NEMA 1 BUS RATING (A): 225A
 LOCATION: MECHANICAL RM. PANEL TYPE: BOLT-ON MTG: SURFACE WITHSTAND (A): 10,000A
 FED FROM: PANEL RP-MAIN MAIN BRKR: MAIN LUGS L-L L-N
 WIRING: 4W+G VOLTAGE: 208 120

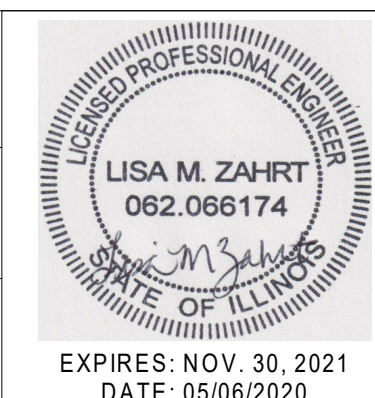
CCT	P	AMPS	LOAD DESCRIPTION	NOTES	LOAD (VA)	A	B	C	LOAD (VA)	NOTES	LOAD DESCRIPTION	AMPS	P	CCT	
1						375	750		375					2	
3	2	20	OVERHEAD DOOR #13 OPERATOR								OVERHEAD DOOR #17 OPERATOR	20	2	4	
5						375	750		375					6	
7	2	20	OVERHEAD DOOR #14 OPERATOR								OVERHEAD DOOR #18 OPERATOR	20	2	8	
9						375	750		375					10	
11	2	20	OVERHEAD DOOR #15 OPERATOR					5175	4800					12	
13						375		5175	4800		WELDING RECEPTACLE	60	3	14	
15	2	20	OVERHEAD DOOR #16 OPERATOR				5175		4800					16	
17	1	20	CORD REEL #1			1200		2400	1200		REFRIGERATED AIR DRYER	20	1	18	
19	1	20	CORD REEL #3			1200	2400		1200		CORD REEL #2	20	1	20	
21	1	15	EXHAUST FAN EF-5			150		850	700		CORD REEL #4	20	1	22	
23	1	15	EXHAUST FAN EF-6			300			300		EXHAUST FAN EF-1	15	1	24	
25	1	15	EXHAUST FAN EF-7			300	650		350		EXHAUST FAN EF-3	15	1	26	
27	1	20	BOILER B-1			1450		2300	1450		EXHAUST FAN EF-4	15	1	28	
29	1	20	VAV BOXES - #1, #2, #3 & #4			800			800		BOILER B-2	20	1	30	
31	1	20	RADIANT TUBE HEATERS			400	1200		800		VAV BOXES - #5, #6, #7 & #8	20	1	32	
33						300		1300	1000		UNIT HEATERS - #1, #2, #3, & #4	20	1	34	
35	3	15	EXHAUST FAN EF-2			300			450		UNIT HEATERS - #5, #6, #7, #8, & #9	20	1	36	
37						300	750		450					38	
39								450	450		EXHAUST FAN EF-10	15	3	40	
41								0						42	
TOTAL VA PER PHASE:						11,675	13,300	11,275	TOTAL VA THIS PANEL:						36,250
TOTAL AMPS PER PHASE:						97	111	94	TOTAL AMPS PER PHASE:						-

NOTES:
 1. PANEL RP-E SHALL FEED ALL DOOR OPERATORS, CORD REELS AND 120 OR 208 VOLT EQUIPMENT WEST OF COLUMN LINE "E" ON THE PLANS.
 2. PROVIDE A MINIMUM OF 4-1P,20A SPARE BREAKERS.

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

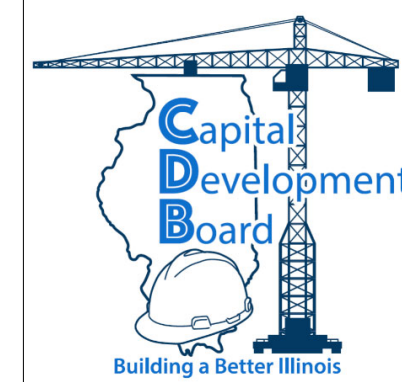
REVISIONS		
NO.	DATE	REMARKS
A	5/6/20	FINAL BRIDGING DOCUMENTS

DRAWN	TAS	PREPARED	
TRACED		APPROVED	
CHECKED		APPROVED	
Checker			



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State of Illinois
JB PRITZKER, GOVERNOR
 Illinois Capital Development Board

ELECTRICAL SCHEDULES

STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO.
630-128-005
 DATE
05/06/2020
 SHEET NO.
E4.13
 OF () SHEETS




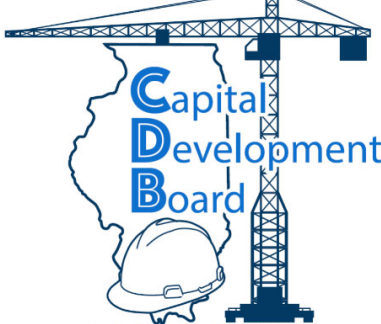
LUMINAIRE SCHEDULE

LUMINAIRE			LAMPS				BALLASTS			MOUNT	DESCRIPTION	NOTES
TYPE	MANUFACTURER	MANUFACTURER CATALOG NO.	TYPE	CATALOG NO.	NO.	WATTS/LAMP	TYPE	NO.	VOLTAGE			
A	METALUX CORELITE LITHONIA	22CZ-LD5-34-UNV-L840-CD1-U R2X-WO-3L40-LD5-UNV-22 2BLT2-40L-ADP-GZ10-LP830			1							
Ae	METALUX CORELITE LITHONIA	22CZ-LD5-34-UNV-L840-CD1-U R2X-WO-3L40-LD5-UNV-22 2BLT2-40L-ADP-GZ10-LP830	L	3400 LM 4000 K	1	29.4	UNV	1	120-277	RECESS	2' x 2' RECESSED LED TYPE FIXTURE. FURNISH WITH NICKEL CADMIUM BATTERY, CHARGER, AND SELF DIAGNOSTICS.	2
D	CORELITE PEERLESS FINELITE	JW-WL-3L40-1D-UNV-L840-CD1 SPW9L LCB 4FT MSL4 80CRI 40K D600LMF DARK ZT 120 SCT C032 DU S18-LED-WM-ID-CS-4-2E-H-840-CTO-120-SC-MB-FE		3500 LM 4000 K	1	49	UNV	1	120-277	WALL	4' WALL MOUNTED LED TYPE FIXTURE.	
E	LITHONIA SURELITES CHLORIDE	LQM-S-W-3-R-120/277 APX7R VERVW	L	WU	1	0.62	UNV	1	120-277	WALL	LED TYPE EXIT LIGHT FIXTURE. FURNISH WITH NICKEL CADMIUM BATTERY CHARGER AND SELF-DIAGNOSTICS. FURNISH HOUSING WITH RED STENCIL LETTERS. UNIVERSAL MOUNTING.	
F1	KIM HUBBELL LUMARK	LTV81EB NF 18L 5K UV RCA81 ALF-6LU-5K-BZ TCRL15	L	1500 LM 5000 K	1	23	UNV	1	120-277	IN-GROUND BASE	LED TYPE IN-GROUND FLOOD LIGHT FIXTURE RATED AT 66 LUMENS PER WATT. FURNISH WITH TEMPERED GLASS LENS AND 120 VOLT DRIVER, REBAR CAGE ANCHOR, U.L. LISTED FOR WET LOCATION USE.	
F4	PORTFOLIO LIGHTOILER GOTHAM	LD4B10D010 EU4B10208040 4LBWMW1 4RN/C4L10840MZ10U/C4RDLWH EVO4 40/10 WR MD LD 120 GZ10	L	1000 LM 4000 K	1	11	UNV	1	120-277	RECESS	4" RECESSED CAN LED TYPE FIXTURE.	
F4A	PORTFOLIO LIGHTOILER GOTHAM	LD4B10D010 EU4B10208040 4LBWMW1 LGSKT4IP66 4RN/C4L10840MZ10U/C4RSLWH EVO4SH 40/10 WR MD LD 120 GZ10	L	1000 LM 4000 K	1	11	UNV	1	120-277	RECESS	4" RECESSED CAN LED TYPE FIXTURE. FURNISH HOUSING WITH PROTECTIVE LENS. U.L. RATED FOR DAMP LOCATIONS.	1
F4e	PORTFOLIO LIGHTOILER GOTHAM	LD4B10D010 EU4B10208040 4LBWMW1 4RN/C4L10840MZ10U/C4RDLWH EVO4 40/10 WR MD LD 120 GZ10	L	1000 LM 4000 K	1	11	UNV	1	120-277	RECESS	4" RECESSED CAN LED TYPE FIXTURE. FURNISH WITH NICKEL CADMIUM BATTERY, CHARGER, AND SELF DIAGNOSTICS.	2
H	ORION LITHONIA METALUX	VTOD12A1UNVNDXXSTFR840SS FHE L24 15000LM ACL MD MVOLT GZ10 50K 80CRI VT4S 15 DRF UNV L850 CD2	L	13500 LM 5000 K	1	88	UNV	1	120-277	HIGH BAY	2' VAPORTIGHT ENCLOSED & GASKETED LED TYPE FIXTURE WITH REINFORCED POLYESTER HOUSING WITH STAINLESS STEEL LATCHES. FURNISH FIXTURE WITH UNIVERSAL VOLTAGE DRIVER, U.L. LISTED FOR WET LOCATION USE.	
He	ORION LITHONIA METALUX	VTOD12A1UNVNDXXSTFR840SS FHE L24 15000LM ACL MD MVOLT GZ10 50K 80CRI VT4S 15 DRF UNV L850 CD2	L	13500 LM 5000 K	1	88	UNV	1	120-277	HIGH BAY	2' VAPORTIGHT ENCLOSED & GASKETED LED TYPE FIXTURE WITH REINFORCED POLYESTER HOUSING WITH STAINLESS STEEL LATCHES. FURNISH FIXTURE WITH UNIVERSAL VOLTAGE DRIVER, U.L. LISTED FOR WET LOCATION USE.	2
M	METALUX AP FINELITE CORELITE	4CWPLD4040C S16 LED DCO 4 4EH 840 10U90D 120 SC FE C4 RZL NL 50L 840 1D UNV STD W SU 4	L	4700 LM 4000 K	1	43	UNV	1	120-277	SURFACE	4' CEILING MOUNTED LED TYPE FIXTURE.	
M2	LITHONIA ORION METALUX	FEM L48 6000LM IMAFD MD MVOLT GZ10 40K 80CRI DPMB STSL VTON1 4 B1 UNV FDXX ST FR 840 SS 4VT2 LD5 6 FR50 UNV L840 CD1 WL SSL	L	6375 LM 4000 K	1	45	UNV	1	120-277	SURFACE	48" VAPORTIGHT ENCLOSED & GASKETED LED TYPE FIXTURE WITH REINFORCED POLYESTER HOUSING WITH STAINLESS STEEL LATCHES, AND UNIVERSAL VOLTAGE DRIVER. U.L. LISTED FOR WET LOCATION USE.	
Me	METALUX AP FINELITE CORELITE	4CWPLD4040C S16 LED DCO 4 4EH 840 10U90D 120 SC FE C4 RZL NL 50L 840 1D UNV STD W SU 4	L	4700 LM 4000 K	1	43	UNV	1	120-277	SURFACE	4' CEILING MOUNTED LED TYPE FIXTURE. FURNISH WITH NICKEL CADMIUM BATTERY, CHARGER, AND SELF DIAGNOSTICS.	2
P1	CREE LITHONIA GARDCO	OSQ-A-NM-3ME-B-40K-UL-BZ DSX1-LED-P3-40K-T3M-MVOLT ECF-S-32L-1A-NW-G2-AR-3-UNV	L	11000 LM 4000 K	1	86	UNV	1	120-277	POLE	SINGLE LED TYPE POLE MOUNTED SITE FIXTURE. U.L. LISTED FOR WET LOCATION USE. PROVIDE 30' STRAIGHT POLE.	
P2	CREE LITHONIA GARDCO	OSQ-A-NM-3ME-B-40K-UL-BZ DSX1-LED-P3-40K-T3M-MVOLT ECF-S-32L-1A-NW-G2-AR-3-UNV	L	11000 LM 4000 K	2	86	UNV	2	120-277	POLE	BACK TO BACK LED TYPE POLE MOUNTED SITE FIXTURE. U.L. LISTED FOR WET LOCATION USE. PROVIDE 30' STRAIGHT POLE.	
WH	KIM GARDCO LITHONIA		L				UNV	1	120-277	WALL	LED TYPE WALL PACK LIGHT FIXTURE. FURNISH FIXTURE WITH UNIVERSAL VOLTAGE DRIVER AND INTEGRATED PHOTO CONTROL. UL LISTED FOR WET LOCATION USE.	
WL	KIM GARDCO LITHONIA	WDS-D-24L-30-4K7-3-UNV-DB 107L-16L-700-NW-G1-4-UNV-DO-BZ KAXW-LED-P1-40K-R4-MVOLT-DDBXD	L	3000 LM 4000 K	1	30	UNV	1	120-277	WALL	LED TYPE WALL PACK LIGHT FIXTURE. FURNISH FIXTURE WITH UNIVERSAL VOLTAGE DRIVER AND INTEGRATED PHOTO CONTROL. UL LISTED FOR WET LOCATION USE.	

NOTES:

1. INCLUDE GASKET KIT FOR SHOWER APPLICATION.
2. FURNISH WITH EMERGENCY BATTERY BACKUP SYSTEM

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

REVISIONS			DRAWN	PREPARED					State of Illinois JB PRITZKER, GOVERNOR Illinois Capital Development Board	ELECTRICAL SCHEDULES	
NO.	DATE	REMARKS	TAS							PROJECT NO.	DATE
			TRACED	APPROVED						630-128-005	05/06/2020
			CHECKED	APPROVED							
A	5/6/20	FINAL BRIDGING DOCUMENTS									E4.14
										MCCOOK, COOK COUNTY, ILLINOIS 60525	
										OF () SHEETS	

EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOCATION	MOTOR OR LOAD			POWER SOURCE	MOC/P AMP RATING/ POLES	CONDUCTORS				CONDUIT		MOTOR CONTROLLER				DISCONNECT SWITCH				NOTES (AT RIGHT)					
			FLA	HP OR KW	VOLTS / PH			SETS	QTY.	SIZE	GND	SIZE	TYPE	TYPE	SIZE (NEMA)	ENCL. (NEMA)	MOUNT	BY	SIZE	FUSE SIZE	ENCL. (NEMA)		MOUNT	BY			
153B	OVERHEAD DOOR #1 OPERATOR	STORAGE BAY 153		3/4HP	208/1	RP-C	20/2	1	2	12	12	3/4"	EMT													45,8,9	
153C	OVERHEAD DOOR #2 OPERATOR	STORAGE BAY 153		3/4HP	208/1	RP-C	20/2	1	2	12	12	3/4"	EMT														45,8,9
153D	OVERHEAD DOOR #3 OPERATOR	STORAGE BAY 153		3/4HP	208/1	RP-C	20/2	1	2	12	12	3/4"	EMT														45,8,9
153E	OVERHEAD DOOR #4 OPERATOR	STORAGE BAY 153		3/4HP	208/1	RP-C	20/2	1	2	12	12	3/4"	EMT														45,8,9
153F	OVERHEAD DOOR #5 OPERATOR	STORAGE BAY 153		3/4HP	208/1	RP-C	20/2	1	2	12	12	3/4"	EMT														45,8,9
153I	OVERHEAD DOOR #6 OPERATOR	STORAGE BAY 153		3/4HP	208/1	RP-C	20/2	1	2	12	12	3/4"	EMT														45,8,9
153J	OVERHEAD DOOR #7 OPERATOR	STORAGE BAY 153		3/4HP	208/1	RP-C	20/2	1	2	12	12	3/4"	EMT														45,8,9
153K	OVERHEAD DOOR #8 OPERATOR	STORAGE BAY 153		3/4HP	208/1	RP-C	20/2	1	2	12	12	3/4"	EMT														45,8,9
153L	OVERHEAD DOOR #9 OPERATOR	STORAGE BAY 153		3/4HP	208/1	RP-C	20/2	1	2	12	12	3/4"	EMT														45,8,9
153M	OVERHEAD DOOR #10 OPERATOR	STORAGE BAY 153		3/4HP	208/1	RP-C	20/2	1	2	12	12	3/4"	EMT														45,8,9
154B	OVERHEAD DOOR #11 OPERATOR	WASH BAY 154		3/4HP	208/1	RP-C	20/2	1	2	12	12	3/4"	EMT														45,8,9
154C	OVERHEAD DOOR #12 OPERATOR	WASH BAY 154		3/4HP	208/1	RP-C	20/2	1	2	12	12	3/4"	EMT														45,8,9
151A	OVERHEAD DOOR #13 OPERATOR	MAINTENANCE BAY 151		3/4HP	208/1	RP-E	20/2	1	2	12	12	3/4"	EMT														45,8,9
151B	OVERHEAD DOOR #14 OPERATOR	MAINTENANCE BAY 151		3/4HP	208/1	RP-E	20/2	1	2	12	12	3/4"	EMT														45,8,9
151D	OVERHEAD DOOR #15 OPERATOR	MAINTENANCE BAY 151		3/4HP	208/1	RP-E	20/2	1	2	12	12	3/4"	EMT														45,8,9
151E	OVERHEAD DOOR #16 OPERATOR	MAINTENANCE BAY 151		3/4HP	208/1	RP-E	20/2	1	2	12	12	3/4"	EMT														45,8,9
150A	OVERHEAD DOOR #17 OPERATOR	TIRE STORAGE 150		3/4HP	208/1	RP-E	20/2	1	2	12	12	3/4"	EMT														45,8,9
140A	OVERHEAD DOOR #18 OPERATOR	MATERIALS STORAGE 140		3/4HP	208/1	RP-E	20/2	1	2	12	12	3/4"	EMT														45,8,9
	TRUCK WASH PRESSURE WASHER	WASH BAY 154	22A		480/3	PP-A	30/3	1	3	10	10	3/4"	EMT														3,4,5
	TRUCK WASH STEAM GENERATOR	WASH BAY 154	24A		480/3	PP-A	30/3	1	3	10	10	3/4"	EMT														3,4,5
	AIR COMPRESSOR	WATER SERVICE ROOM 141		5HP	208/3	RP-B	40/3	1	3	10	10	3/4"	EMT														3,4,5
	AIR COMPRESSOR	OIL/LUBE ROOM 137		30HP	480/3	PP-B	60/3	1	3	6	8	1"	EMT														3,4,5
	COMPRESSOR REFRIGERATED AIR DRYER	OIL/LUBE ROOM 137	15A		120/1	RP-E	20/1	1	2	12	12	3/4"	EMT														3,4,10
	WELDING RECEPTACLE	COMMON WORK AREA 148	40A		208/3	RP-E	60/3	1	3	6	8	1"	EMT														3,4,11
	VEHICLE LIFT #1	MAINTENANCE BAY 151	30A		480/3	PP-C	40/3	1	3	8	10	3/4"	EMT														4
	VEHICLE LIFT #2	MAINTENANCE BAY 151	30A		480/3	PP-C	40/3	1	3	8	10	3/4"	EMT														4
	CORD REEL #1	MAINTENANCE BAY 151	10A		120/1	RP-E	20/1	1	2	12	12	3/4"	EMT														4
	CORD REEL #2	MAINTENANCE BAY 151	10A		120/1	RP-E	20/1	1	2	12	12	3/4"	EMT														4
	CORD REEL #3	MAINTENANCE BAY 151	10A		120/1	RP-E	20/1	1	2	12	12	3/4"	EMT														4
	CORD REEL #4	MAINTENANCE BAY 151	10A		120/1	RP-E	20/1	1	2	12	12	3/4"	EMT														4
	GILSON SILENT SIFTER	SHAKER ROOM 143		1/4HP	120/1	RP-B	20/1	1	2	12	12	3/4"	EMT														4,10
	GILSON SILENT SIFTER	SHAKER ROOM 143		1/4HP	120/1	RP-B	20/1	1	2	12	12	3/4"	EMT														4,10
	AGGREGATE WASHER	MATERIALS LAB 142		1.5HP	120/1	RP-B	40/1	1	2	8	10	3/4"	EMT														4,10
	TESTING 6-TRAY SCREEN	SHAKER ROOM 143		1/3HP	120/1	RP-B	20/1	1	2	12	12	3/4"	EMT														4,10
	SCALE	SHAKER ROOM 143	2A		120/1	RP-B	20/1	1	2	12	12	3/4"	EMT														4,10
	HIGH CAPACITY BALANCE	MATERIALS LAB 142	2A		120/1	RP-B	20/1	1	2	12	12	3/4"	EMT														4,10
	HIGH CAPACITY BALANCE	MATERIALS LAB 142	2A		120/1	RP-B	20/1	1	2	12	12	3/4"	EMT														4,10
	HIGH CAPACITY BALANCE	MATERIALS LAB 142	2A		120/1	RP-B	20/1	1	2	12	12	3/4"	EMT														4,10
	HIGH CAPACITY BALANCE	MATERIALS LAB 142	2A		120/1	RP-B	20/1	1	2	12	12	3/4"	EMT														4,10
	HIGH CAPACITY BALANCE	MATERIALS STORAGE 140	2A		120/1	RP-B	20/1	1	2	12	12	3/4"	EMT														4,10
	BENCHTOP CONVECTION OVEN	MATERIALS LAB 142	20A		208/1	RP-B	30/2	1	2	10	10	3/4"	EMT														4
	BENCHTOP CONVECTION OVEN	MATERIALS LAB 142	20A		208/1	RP-B	30/2	1	2	10	10	3/4"	EMT														4
HRU-1	HEAT RECOVERY UNIT #1	ROOF ABOVE OFFICES	13.4		480/3	PP-B	20/3	1	3	12	12	3/4"	RGS														3,4,5
HRU-2	HEAT RECOVERY UNIT #2	ROOF ABOVE OFFICES	38.0		480/3	PP-B	45/3	1	3	6	10	3/4"	RGS														3,4,5
EF-1	EXHAUST FAN #1	TIRE STORAGE - 150		1/4HP	120/1	RP-E	15/1	1	2	12	12	3/4"	EMT	MAN		1	NU	EC									3,4,5,12
EF-2	EXHAUST FAN #2	PARTS/TOOLS ROOM - 149		1/2HP	208/3	RP-E	15/3	1	3	12	12	3/4"	EMT	COMB	1	1	NU	EC	30	1.5	1	NU	EC				3,4,5
EF-3	EXHAUST FAN #3	OIL/LUBE ROOM - 137		1/10HP	120/1	RP-E	15/1	1	2	12	12	3/4"	EMT	MAN		1	NU	EC									3,4,5,12
EF-4	EXHAUST FAN #4	ROOF ABOVE LOCKERS		1/8HP	120/1	RP-E	15/1	1	2	12	12	3/4"	RGS	MAN		4X SS	NU	EC									3,4,5,12
EF-5	EXHAUST FAN #5	JANITOR'S - 134		FRACT.	120/1	RP-E	15/1	1	2	12	12	3/4"	EMT	MAN		1	NU	EC									3,4,5,12
EF-6	EXHAUST FAN #6	ROOF ABOVE MECH. RM.		1/10HP	120/1	RP-E	15/1	1	2	12	12	3/4"	RGS	MAN		4X SS	NU	EC									3,4,5,12
EF-7	EXHAUST FAN #7	ROOF ABOVE PAINT RM.		1/10HP	120/1	RP-E	15/1	1	2	12	12	3/4"	RGS	MAN		4X SS	NU	EC									3,4,5,12
EF-8	EXHAUST FAN #8	WASH BAY - 154		1/2HP	208/3	RP-C	15/3	1	3	12	12	3/4"	EMT	COMB	1	4X SS	NU	EC	30	1.5	4X SS	NU	EC				3,4,5
EF-9	EXHAUST FAN #9	STORAGE BAYS - 153		1/4HP	120/1	RP-C	15/1	1	3	12	12	3/4"	EMT	MAN		1	NU	EC									3,4,5,12
EF-10	EXHAUST FAN #10	MAINTENANCE BAY - 151		3/4HP	208/3	RP-E	15/3	1	3	12	12	3/4"	EMT	COMB	1	1	NU	EC	30	1.5	1	NU	EC				3,4,5
B-1	BOILER #1	MECHANICAL ROOM - 135	12.0		120/1	RP-E	20/1	1	2	12	12	3/4"	EMT														3,4,5,12
B-2	BOILER #2	MECHANICAL ROOM - 135	12.0		120/1	RP-E	20/1	1	2	12	12	3/4"	EMT														3,4,5,12
V-01	V. A. V. #1	CORRIDOR - 130	2.0		120/1	RP-E	20/1	1	2	12	12	3/4"	EMT														3,4,5,12
V-02	V. A. V. #2	CORRIDOR - 130	2.0																								



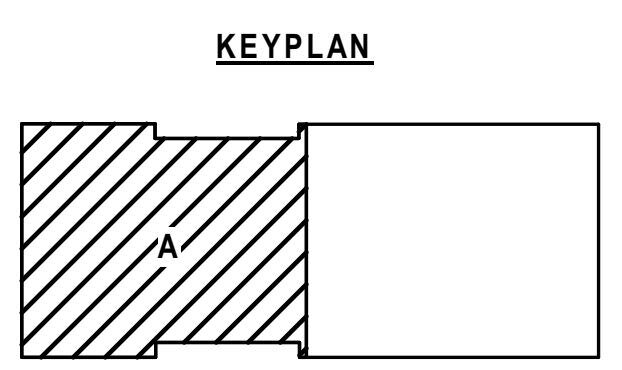
NOTES (THIS SHEET)

- REFER TO SHEET E0.01 FOR ELECTRICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES (THIS SHEET)

- PROVIDE EMPTY OUTLET BOX FOR COMMUNICATIONS OUTLET AT EACH DESK LOCATION. PROVIDE 1" CONDUIT WITH (3) CAT 6 CABLES FROM EACH OUTLET BOX TO SERVER ROOM. COMMUNICATIONS DEVICES AND FINAL CONNECTIONS BY USING AGENCY.
- IN ADDITION TO COMMUNICATION OUTLET AT EACH DESK LOCATION (SEE KEYNOTE 1), PROVIDE ONE ADDITIONAL EMPTY OUTLET BOX AT A LOCATION AS DIRECTED BY THE USING AGENCY. PROVIDE 1" CONDUIT WITH (3) CAT 6 CABLES FROM OUTLET BOX TO SERVER ROOM. COMMUNICATIONS DEVICES AND FINAL CONNECTIONS BY USING AGENCY.
- PROVIDE EMPTY OUTLET BOX FOR WALL MOUNTED TELEPHONE. PROVIDE 1" CONDUIT WITH (3) CAT 6 CABLES FROM OUTLET BOX TO SERVER ROOM. COMMUNICATIONS DEVICES AND FINAL CONNECTIONS BY USING AGENCY.
- PROVIDE EMPTY OUTLET BOX AT REMOTE FUEL METERS (CONFIRM LOCATION WITH ARCHITECT). PROVIDE 1" CONDUIT WITH (3) CAT 6 CABLES FROM OUTLET BOX TO SERVER ROOM. COMMUNICATIONS DEVICES AND FINAL CONNECTIONS BY USING AGENCY.
- PROVIDE EMPTY OUTLET BOX FOR DIAGNOSTICS DATA OUTLET AT FREESTANDING CONTROL PANEL (CONFIRM LOCATION WITH ARCHITECT). PROVIDE 1" CONDUIT WITH (3) CAT 6 CABLES FROM OUTLET BOX TO SERVER ROOM. COMMUNICATIONS DEVICES AND FINAL CONNECTIONS BY USING AGENCY.
- TELEPHONE/DATA RACK AND SWITCHES PROVIDED BY USING AGENCY (CONFIRM LOCATION WITH USING AGENCY). STUB ALL CONDUITS FROM TELEPHONE/DATA OUTLETS ADJACENT TO TELEPHONE/DATA RACK (COORDINATE LOCATION WITH USING AGENCY). FINAL CONNECTIONS BY USING AGENCY.
- PROVIDE EMPTY OUTLET BOX AT A LOCATION AS DIRECTED BY THE USING AGENCY. PROVIDE 1" CONDUIT WITH (3) CAT 6 CABLES FROM OUTLET BOX TO SERVER ROOM. COMMUNICATIONS DEVICES AND FINAL CONNECTIONS BY USING AGENCY.

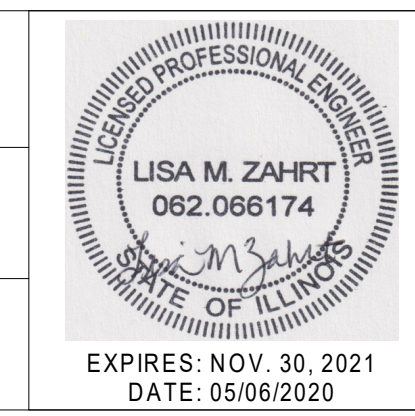
1 COMMUNICATIONS PLAN - AREA A
 SCALE 1/8" = 1'



NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

REVISIONS		
NO.	DATE	REMARKS
A	5/6/20	FINAL BRIDGING DOCUMENTS

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COMMUNICATIONS PLAN - AREA A
 STEVENSON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

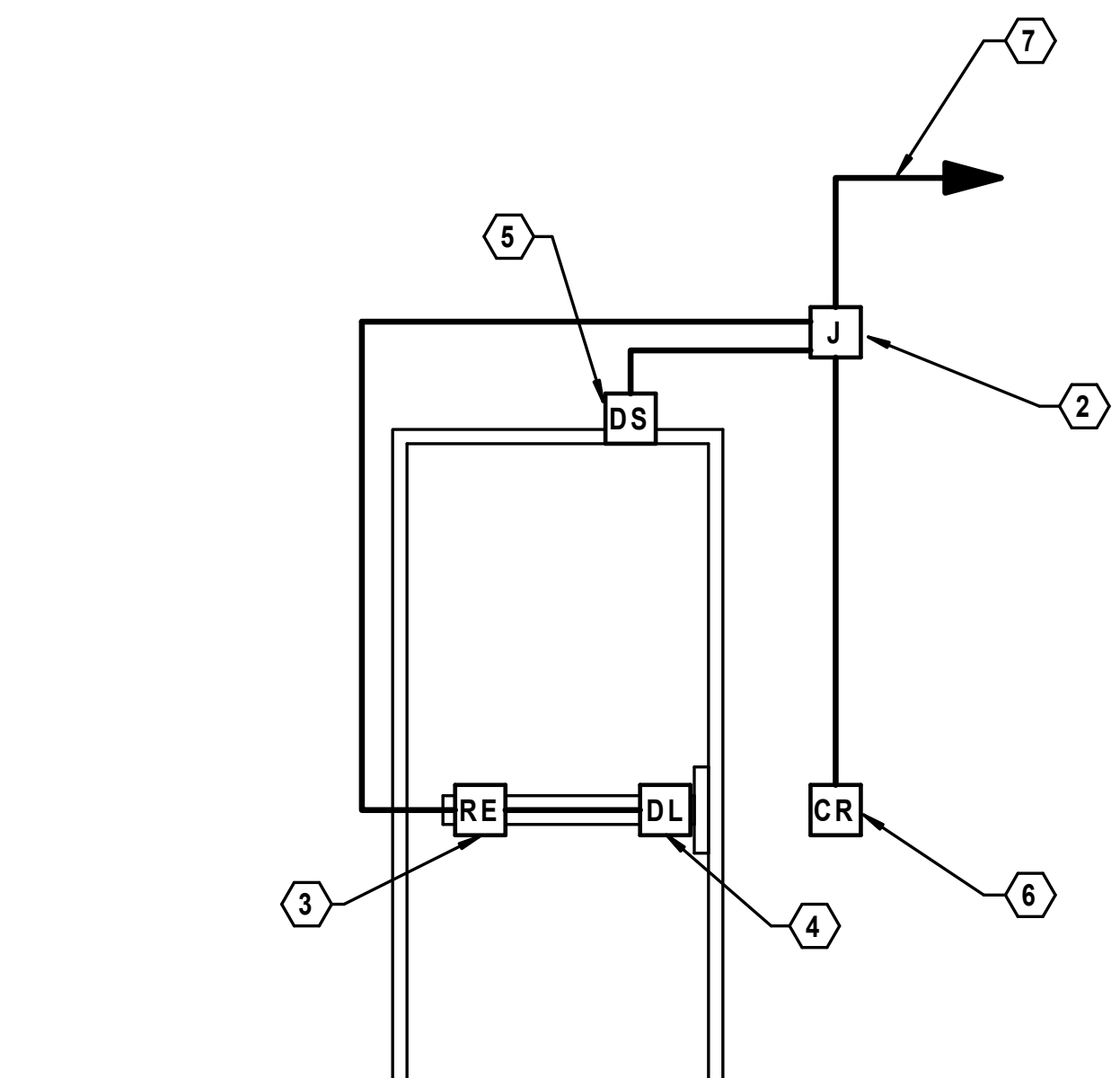
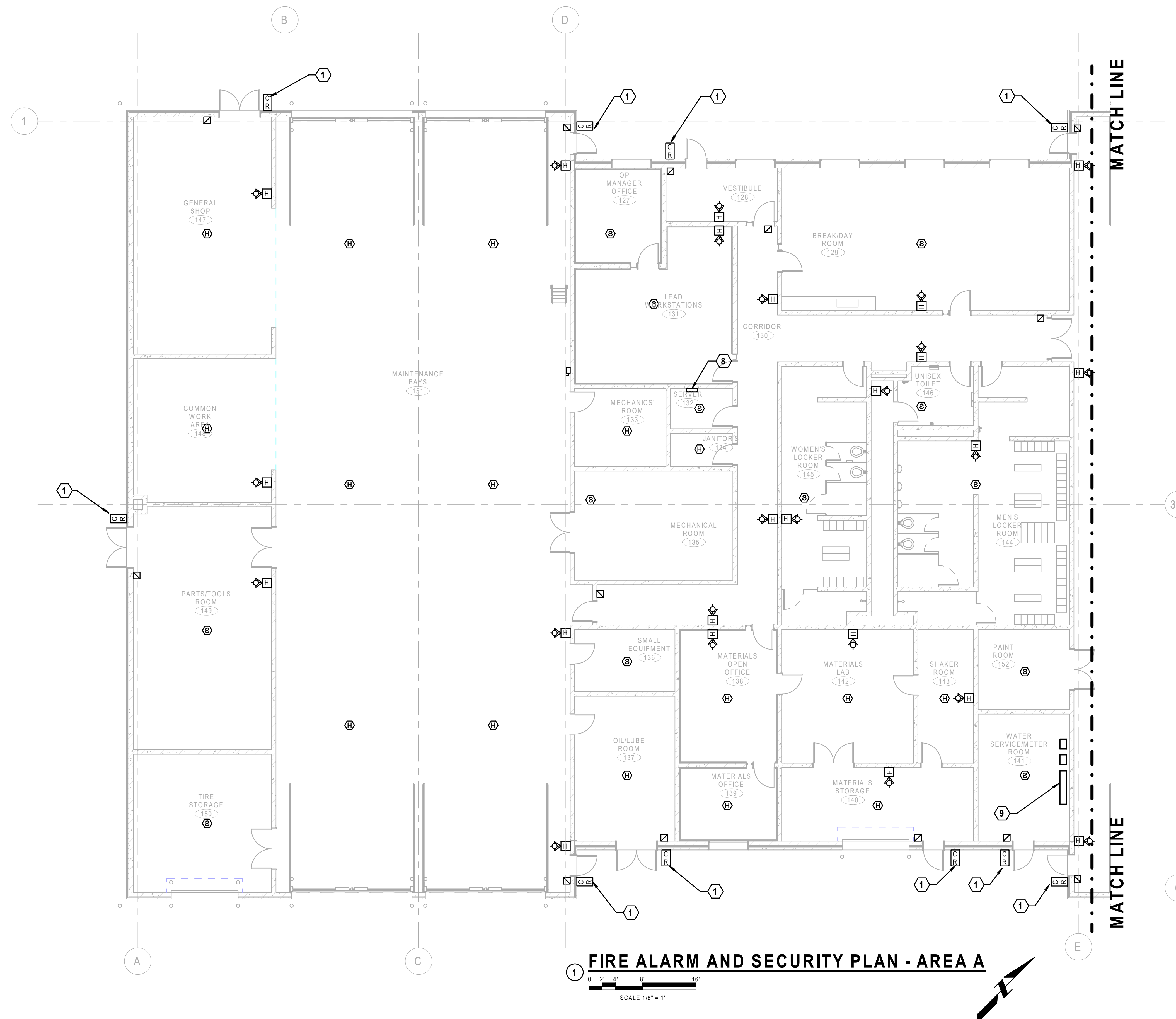
PROJECT NO. 630-128-005
DATE 05/06/2020
SHEET NO. COM2.10
OF () SHEETS

NOTES (THIS SHEET)

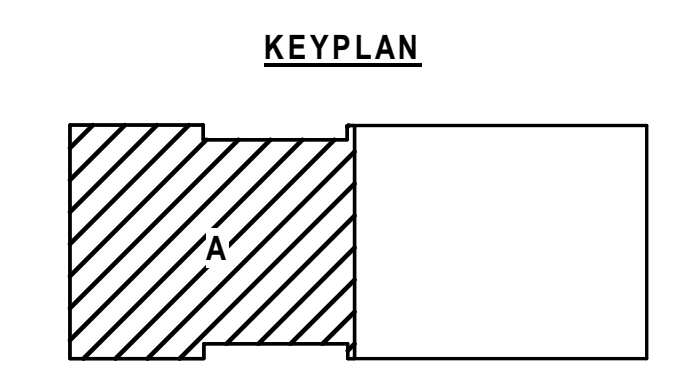
- SEE SHEET E0.01 FOR ELECTRICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES (THIS SHEET)

- PROVIDE CARD READER DOOR SECURITY SYSTEM. SEE DETAIL.
- PROVIDE 6"x6"x4"D JUNCTION BOX ABOVE NEAREST ACCESSIBLE CEILING LOCATION TO DOOR. PROVIDE TERMINAL STRIPS AS REQUIRED FOR TERMINATION OF ALL WIRING.
- REQUEST TO EXIT DEVICE AND ASSOCIATED CABLE FURNISHED WITH DOOR HARDWARE AND INSTALLED BY CONTRACTOR PER MANUFACTURER'S REQUIREMENTS. COORDINATE WITH DOOR HARDWARE MANUFACTURER.
- ELECTRIC DOOR LOCK/STRIKE AND ASSOCIATED CABLE PROVIDED WITH DOOR HARDWARE AND INSTALLED BY CONTRACTOR PER MANUFACTURER'S REQUIREMENTS. COORDINATE WITH DOOR HARDWARE MANUFACTURER.
- DOOR POSITION SWITCH AND ASSOCIATED CABLE FURNISHED WITH DOOR HARDWARE AND INSTALLED BY CONTRACTOR PER MANUFACTURER'S REQUIREMENTS. COORDINATE WITH DOOR HARDWARE MANUFACTURER.
- PROVIDE COMBINATION PROXIMITY CARD READER/KEYPAD. INSTALL ON EXTERIOR OF DOOR (IN LOCATION SHOWN ON PLAN) PER THE MANUFACTURER'S REQUIREMENTS. PROVIDE MANUFACTURER'S RECOMMENDED CABLE AND EXTEND THROUGH JUNCTION BOX TO DOOR ACCESS CONTROL EQUIPMENT PANEL. TAG CABLE AT BOTH ENDS. COORDINATE ENTIRE INSTALLATION WITH OWNER'S ACCESS CONTROL SYSTEM PROVIDER.
- PROVIDE MANUFACTURER'S RECOMMENDED WIRING FOR DOOR POSITION SWITCH, REQUEST TO EXIT DEVICE, AND ELECTRIC LOCK/STRIKE TO DOOR ACCESS CONTROL EQUIPMENT PANEL. TAG ALL WIRING AT BOTH ENDS. COORDINATE ENTIRE INSTALLATION WITH OWNER'S ACCESS CONTROL SYSTEM PROVIDER AND DOOR HARDWARE MANUFACTURER.
- DOOR ACCESS CONTROL EQUIPMENT PANEL.
- PROVIDE FIRE ALARM MONITORING MODULES FOR FIRE PROTECTION RISER. TAMPER AND FLOW SWITCHES AS FOLLOWS: (2) TAMPER SWITCHES FOR THE BACKFLOW PREVENTER. (1) TAMPER SWITCH FOR THE SYSTEM VALVE. (1) FLOW SWITCH FOR SYSTEM FLOW.



DOOR ACCESS CONTROL DETAIL
N.T.S.



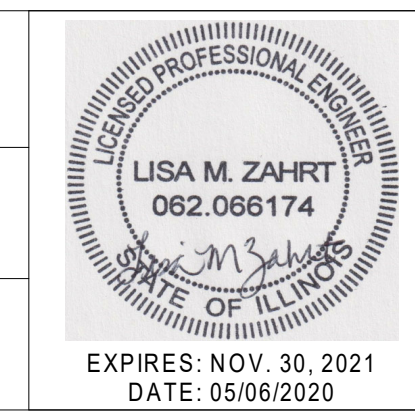
FIRE ALARM AND SECURITY PLAN - AREA A

SCALE 1/8" = 1'

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REVISIONS		
NO.	DATE	REMARKS
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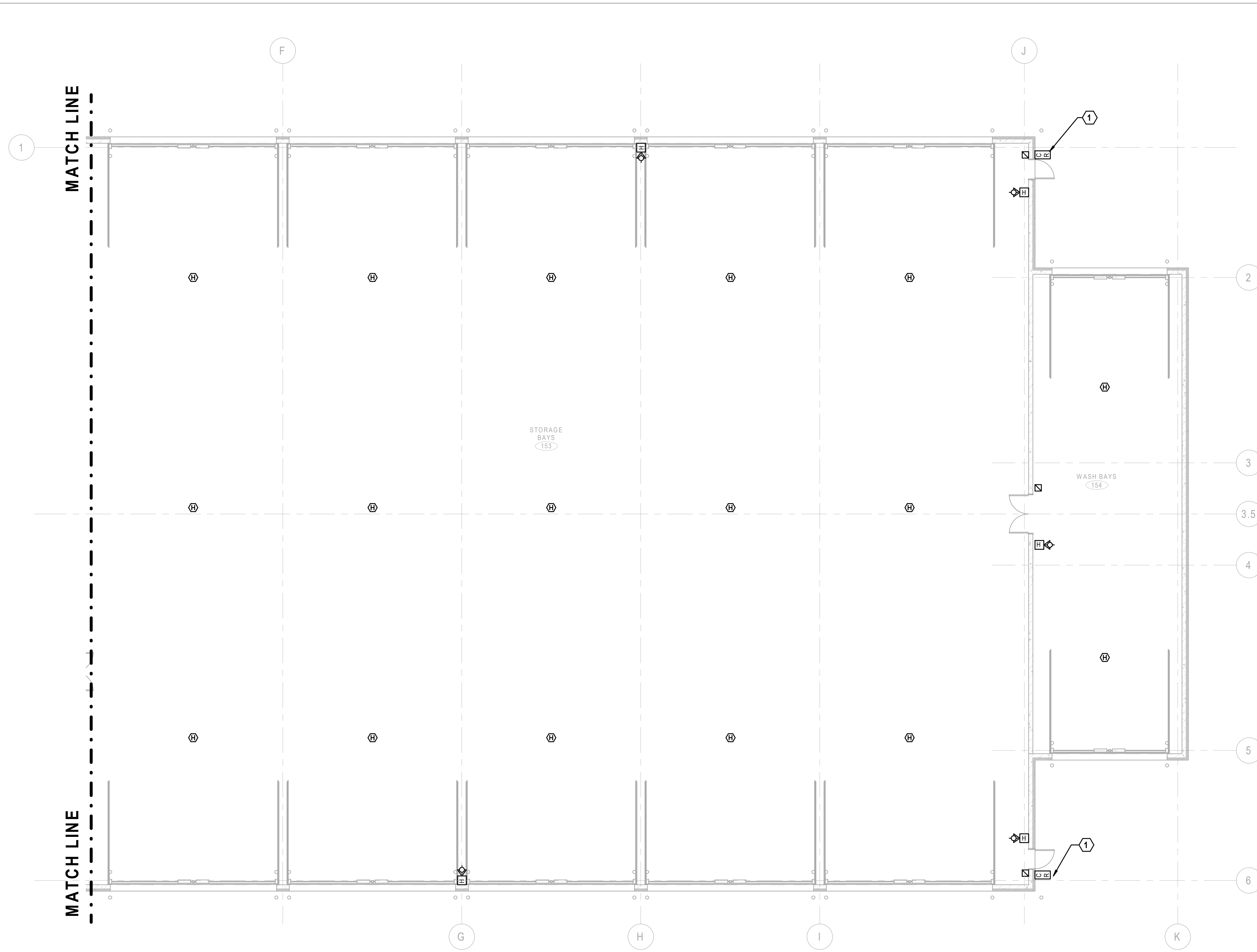
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FIRE ALARM & SECURITY - AREA A
STEVENSON YARD MAINTENANCE FACILITY
BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
ILLINOIS DEPARTMENT OF TRANSPORTATION
MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
DATE 05/06/2020
SHEET NO. FA2.10
OF () SHEETS

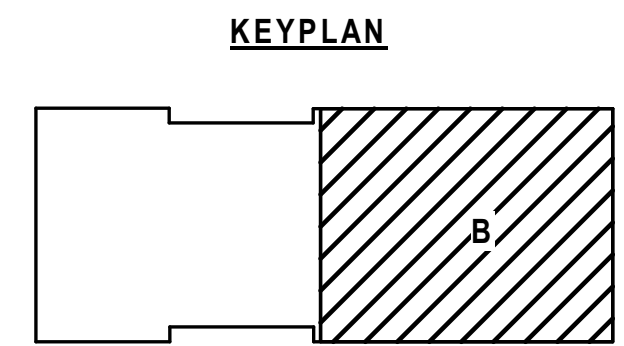


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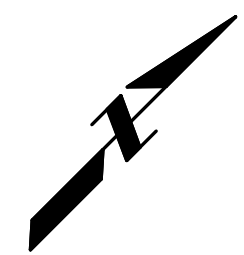
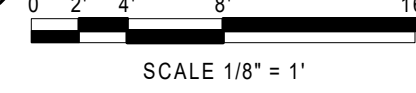
- 1. SEE SHEET E0.01 FOR ELECTRICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES (THIS SHEET)

- 1 PROVIDE CARD READER DOOR SECURITY SYSTEM. SEE DETAIL.



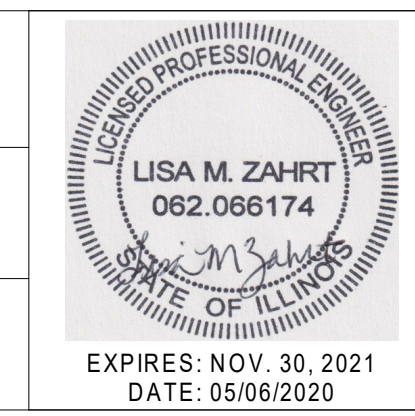
1 FIRE ALARM AND SECURITY PLAN - AREA B



NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

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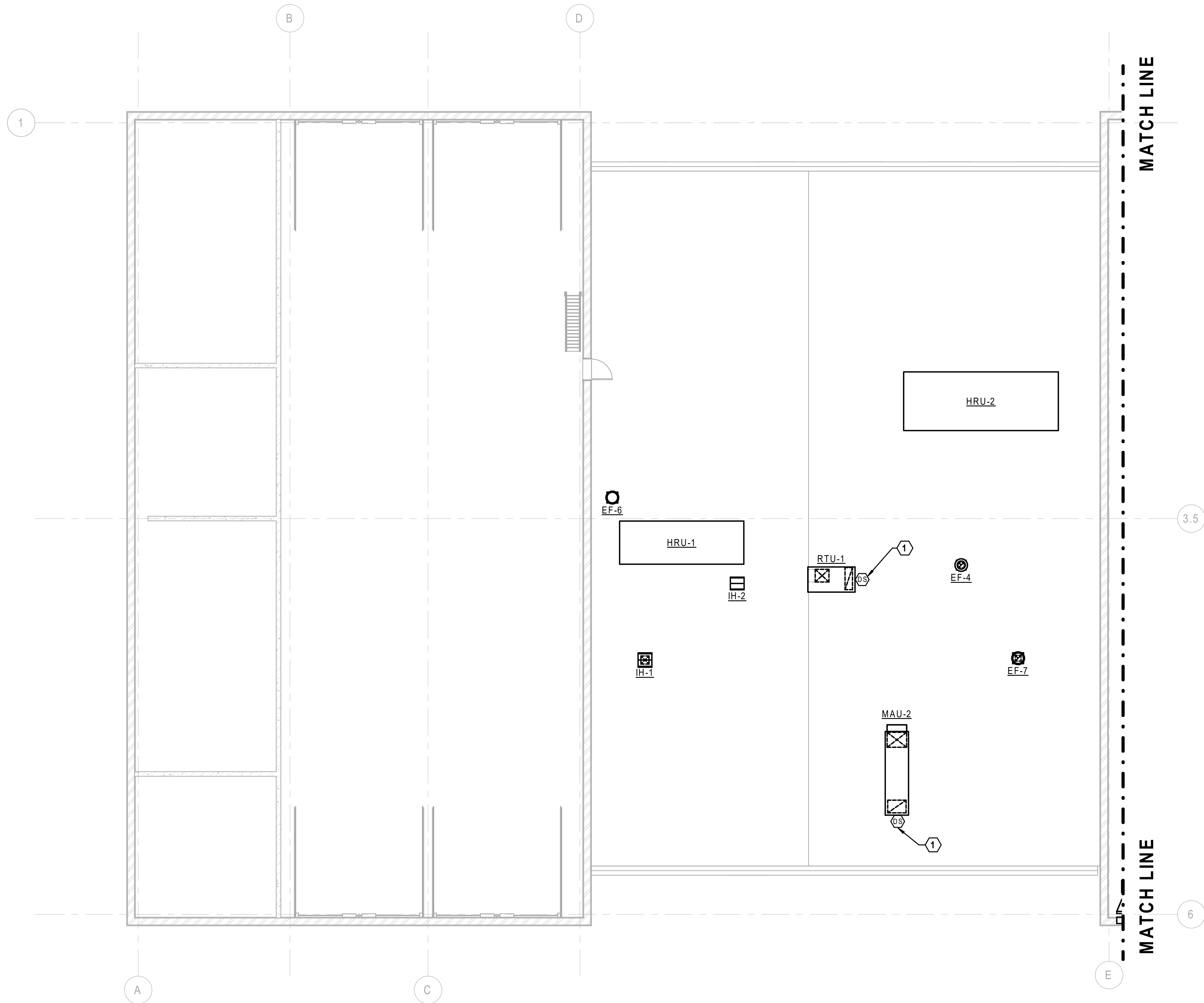


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FIRE ALARM & SECURITY - AREA B

STEVENS ON YARD MAINTENANCE FACILITY
 BRIDGING DOCUMENTS (NOT FOR CONSTRUCTION)
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
DATE 05/06/2020
SHEET NO. FA2.11
OF () SHEETS



NOTES (THIS SHEET)

- 1. SEE SHEET E0.01 FOR ELECTRICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES (THIS SHEET)

- 1. PROVIDE DUCT SMOKE DETECTOR WITH REMOTE RESET STATION.

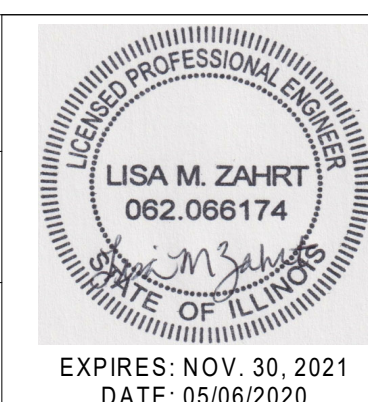
1 FIRE ALARM PLAN - ROOF AREA A



NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME. BRIDGING DOCUMENTS, DRAWINGS AND NARRATIVES ARE PROVIDED FOR DESIGN INTENT. THE DESIGN-BUILD ENTITY IS RESPONSIBLE FOR THE COMPLETE DESIGN OF A PROJECT THAT ADHERES TO ALL SCOPE OF WORK REQUIREMENTS, CODES, STATE AND FEDERAL REGULATIONS AND GUIDELINES.

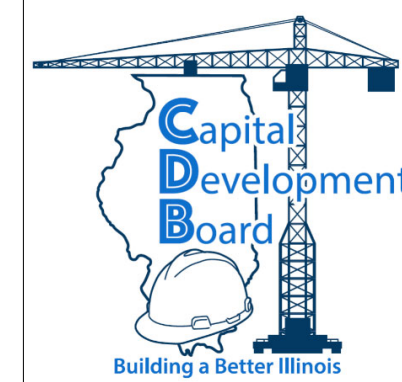
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Author	Prepared
Traced	Approved
Checked	Approved
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FIRE ALARM PLAN - ROOF AREA A

STEVENS ON YARD MAINTENANCE FACILITY
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 ILLINOIS DEPARTMENT OF TRANSPORTATION
 MCCOOK, COOK COUNTY, ILLINOIS 60525

PROJECT NO. 630-128-005
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OF () SHEETS