

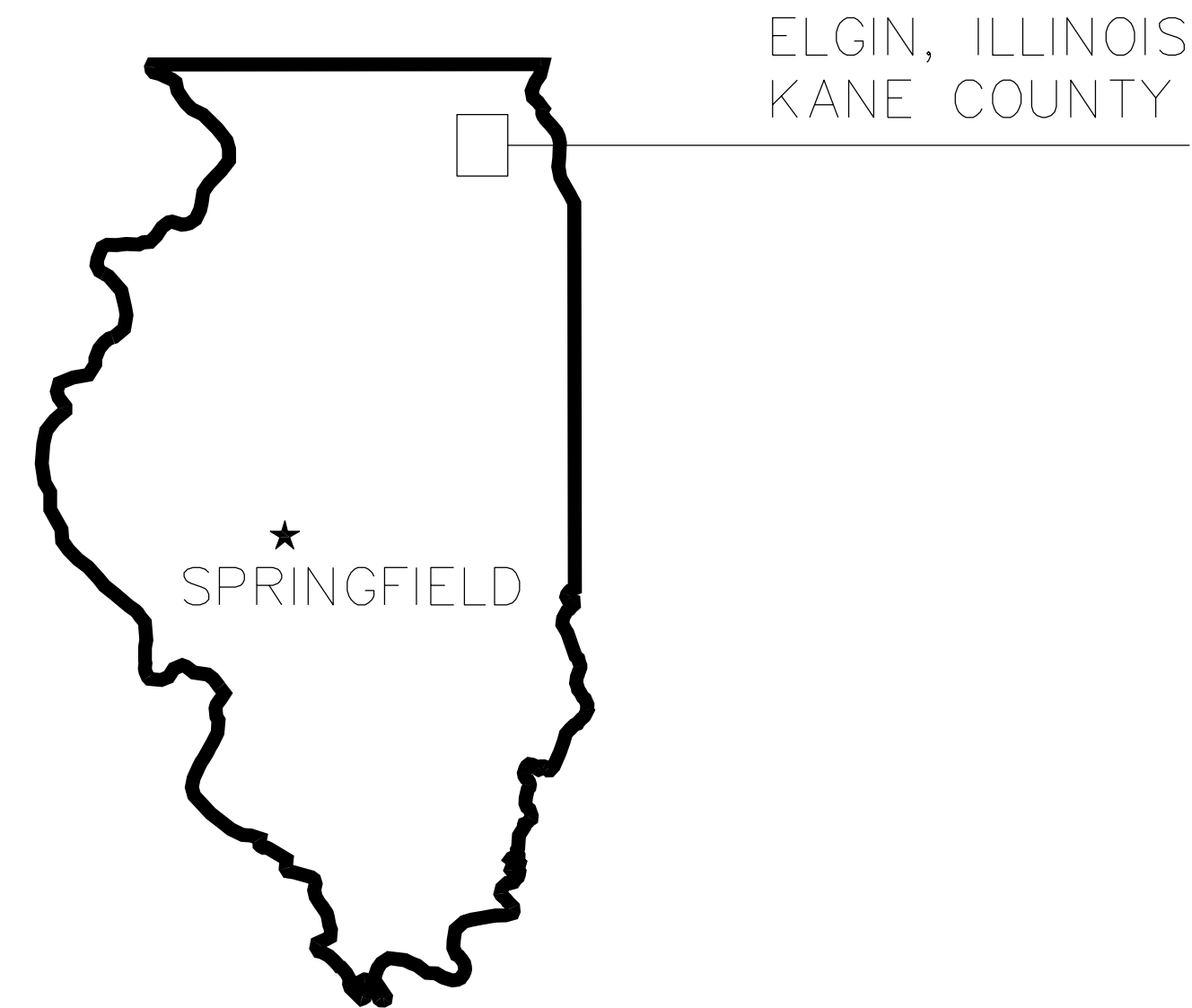
CDB – PROJECT NUMBER 321-055-138

NEW POWER PLANT ELGIN MENTAL HEALTH CENTER  
 DEPARTMENT OF HUMAN SERVICES  
 ELGIN (KANE COUNTY), ILLINOIS  
 CDB ILLINOIS BUILDING INVENTORY NUMBER: DHS055-0001 (NEW POWER PLANT)  
 CONTRACT: DESIGN-BUILD

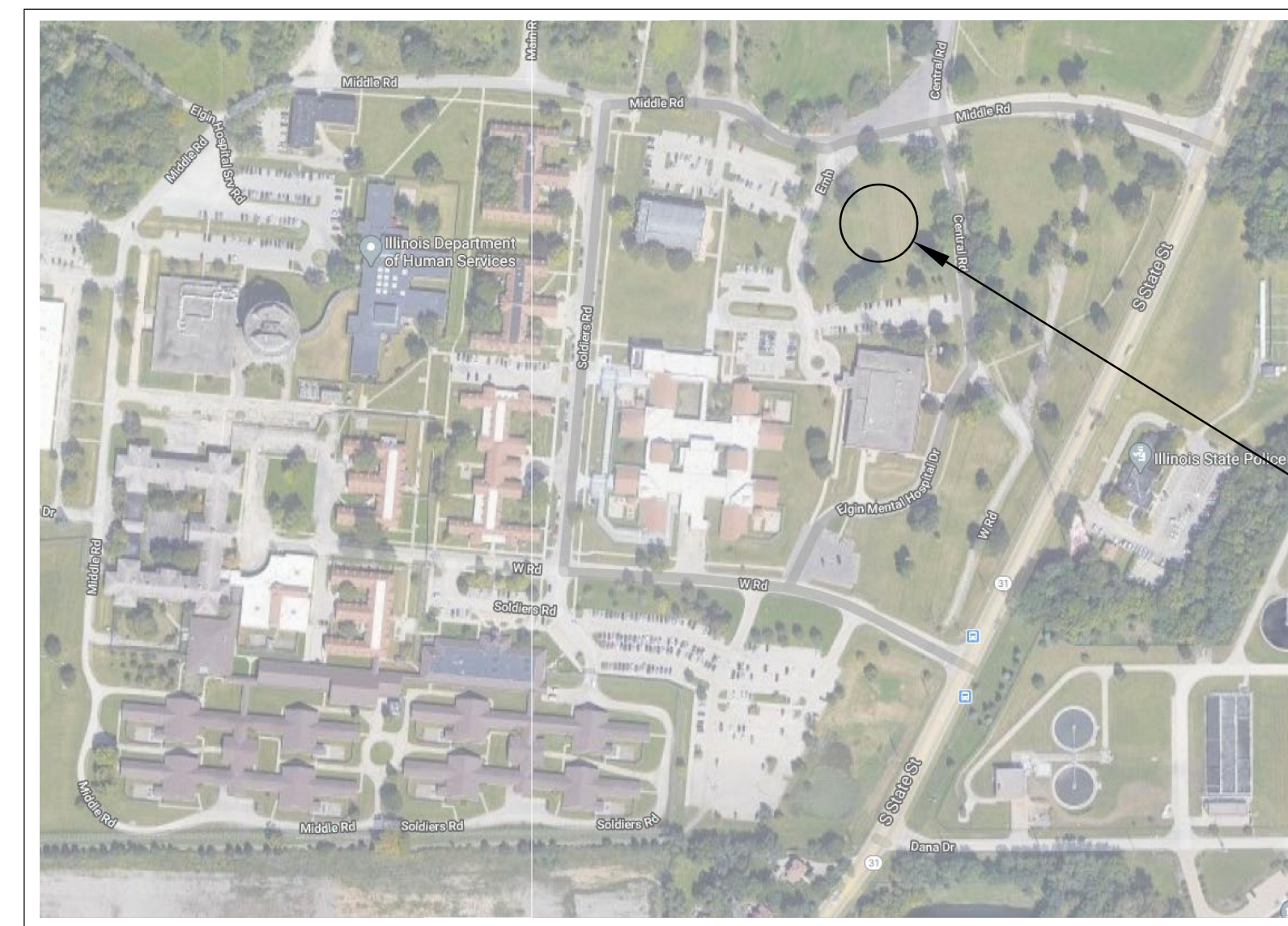
FOR:  
 STATE OF ILLINOIS  
 CAPITAL DEVELOPMENT BOARD

USING AGENCY:  
 ILLINOIS DEPARTMENT OF HUMAN  
 SERVICES

BY:  
 STANLEY CONSULTANTS, INC.  
 8501 W. HIGGINS ROAD  
 SUITE 730  
 CHICAGO, ILLINOIS 60631



STATE LOCATION PLAN



SITE FOR NEW  
 POWER PLANT

NORTH



AREA LOCATION PLAN

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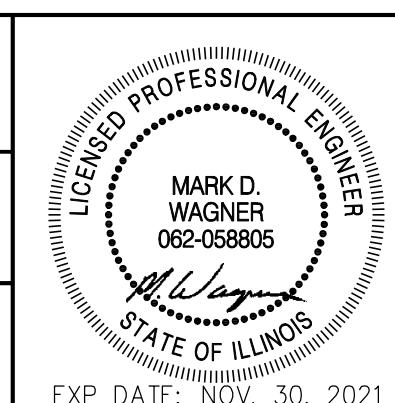
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NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

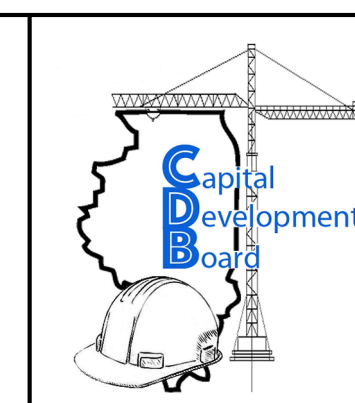
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REVISIONS		
NO.	DATE	REMARKS

DRAWN	PREPARED
B.K.	---
TRACED	APPROVED
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CHECKED	APPROVED
M.D.W.	M.D.W.



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State of Illinois  
**JB PRITZKER, GOVERNOR**  
 Illinois Capital Development Board

COVER SHEET AND INDEX OF DRAWINGS  
 NEW POWER PLANT  
 ELGIN MENTAL HEALTH CENTER  
 750 SOUTH STATE STREET  
 ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.	321-055-138
DATE	4/22/2021
SHEET NO.	<b>G-1</b>
1 OF (51) SHEETS	

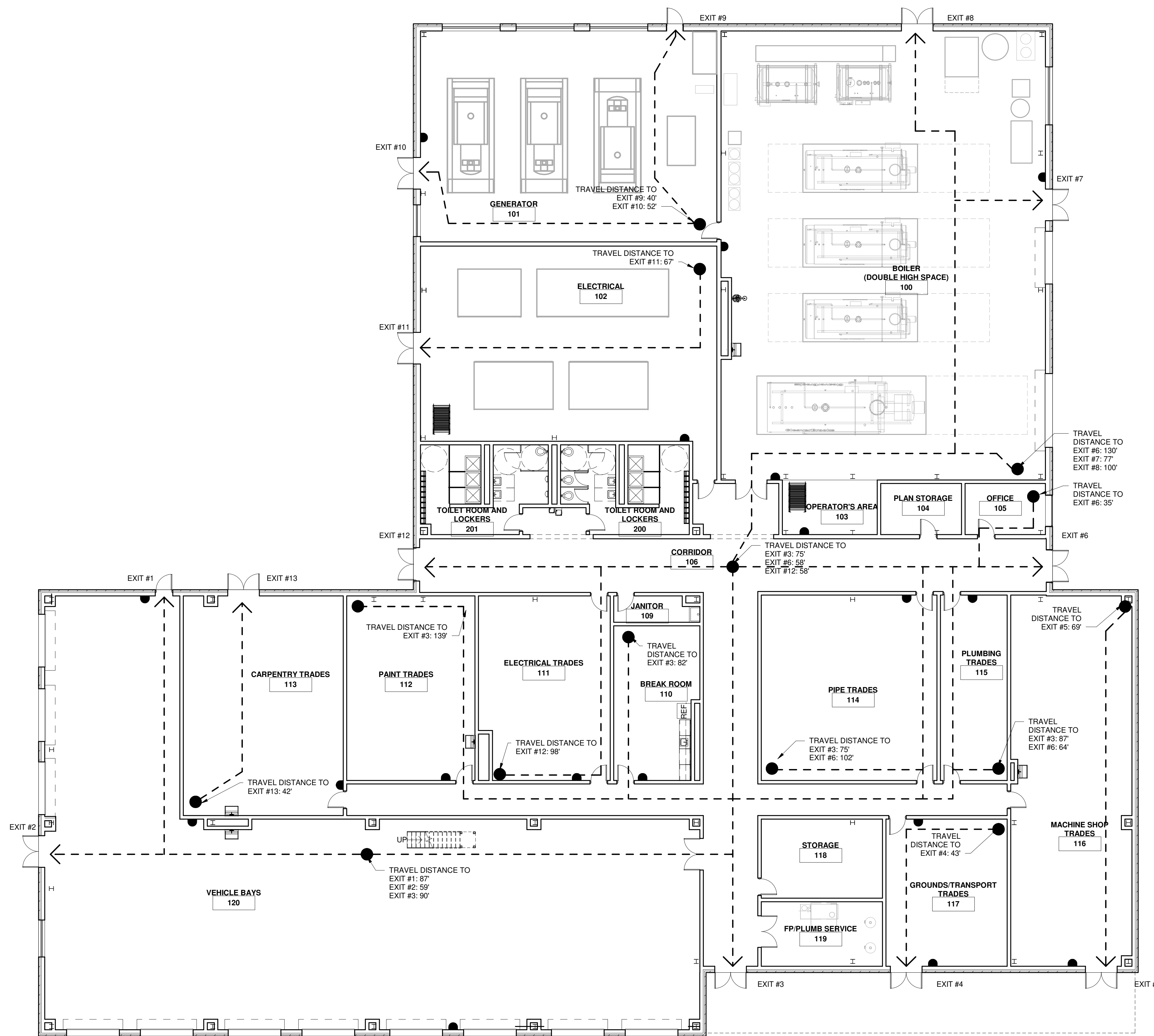


**LIFE SAFETY PLAN NOTES**

**BUILDING DATA**

- BUILDING CODES ADOPTED:
- NATIONAL FIRE PROTECTION ASSOCIATION / NFPA 101 LIFE SAFETY CODE 2015 EDITION
- INTERNATIONAL BUILDING CODE -2018 EDITION
- INTERNATIONAL FIRE CODE - 2018 EDITION
- INTERNATIONAL MECHANICAL CODE-2018 EDITION
- INTERNATIONAL FUEL GAS CODE-2018 EDITION
- NATIONAL ELECTRIC CODE-2017 EDITION
- ILLINOIS PLUMBING CODE-2014 EDITION
- ILLINOIS ENERGY CONSERVATION CODE-2018
- ILLINOIS ACCESSIBILITY CODE-2018 EDITION
- 2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN (FEDERAL)

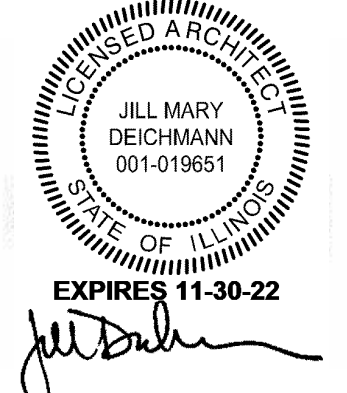
Code Matrix - CDB Form Revision Level: 03.15.2021						
Item	Code Subject	Model Code/ Edition	Chapter/ Section/ Table	Requirement/ Allowable	Actual	Comments
<b>PART 1- BUILDING REQUIREMENTS</b>						
Occupancy Classification						
Occupancy Category	IBC 2018	306		F1=300sf/occ and S2 = 200sf/occ	110 occ	Actual occupancy will be 20 or less
Building Occupancy	IBC 2018					Power Plant/Interior Parking
Height/ area limitations						
Number of stories	IBC 2018	504.4	2	1		
Height	IBC 2018	504.3		45 ft	27'-4"	
Area per story	IBC 2018	506.2		unlimited	28,617	
Types of Construction	IBC 2018	601			II-B	
Required hours of fire resistance						
Exterior bearing walls	IBC 2018	601		0 hrs	0 hrs	
Interior bearing walls	IBC 2018	601		0 hrs	0 hrs	
Floor construction	IBC 2018	601		0 hrs	0 hrs	Mezzanine floor = 2 hr
Structural frame	IBC 2018	601		0 hrs	0 hrs	
Roof construction	IBC 2018	601		0 hrs	0 hrs	
Fire resistive requirements						
Exterior wall fire resistance rating (separation distance)	IBC 2018	602		0 hrs	2 hrs	
Opening protectives						
Door at 2 hour walls	IBC 2018	716.1		B-labeled	B-labeled	
Door at exterior walls	IBC 2018	716.1		no Rating	no Rating	
Incidental use areas						
Boiler room	IBC 2018	509		1 hr	2 hr	
Paint shops	IBC 2018	509		1 hr	2 hr	
Corridor	IBC 2018	1020.1		0 hr	0 hr	
<b>PART 2- EXIT REQUIREMENTS</b>						
Means of egress						
Exit signs	IBC 2018	1013			complies	
Tactile exit signs	IBC 2018	1013.4			complies	
Portable fire extinguishers	IBC 2018			max 75 ft	complies	
Means of egress illumination						
Illumination level	IBC 2018	1008.2.1		1 fc	complies	
Emergency power source	IBC 2018	1008.3		EM power	complies	
Exit Access Requirements						
Min. number building exits	IBC 2018	1006.2		2 exits	3	Equipment rooms have exterior exits
Maximum number occupants for single exit	IBC 2018					
Min. exits per space	IBC 2018	1006.2		1	2	
Maximum common path of egress travel distance	IBC 2018					
Maximum travel distance to an exit access	IBC 2018	1017.2		250'-0"	150'-0"	
Maximum dead end corridor length	IBC 2018	1020.4		50'-0"	47'-0"	
Minimum corridor width	IBC 2018	1020.2		44"	6'-0"	
Exit door capacity	IBC 2018	1005.3.2		0.2 inch/occ	36" min	
<b>PART 3- ACCESSIBILITY (ILLINOIS ACCESSIBILITY CODE)</b>						
Exceptions/ Waivers	IAC 2018	203.9		employee work areas are ADA compliant	complies	Exempt for equipment access and mezzanine areas
Parking requirements	IAC 2018	208.2		5	2	actual occupancy will be 20 or less
<b>PART 4- PLUMBING REQUIREMENTS</b>						
Illinois Plumbing Code	2014 IPC	890.810		500sf/occ	60 occ	
Fixture requirements	2014 IPC	890.810		30 occ/gender		
Water closets/ urinals	2014 IPC	890.810		2	3	
Lavatories	2014 IPC	890.810		2	3	
Drinking fountains	2014 IPC	890.810		1	1	
Showers	2014 IPC	890.810		3	3	



1 1ST FLOOR PLAN  
3/32" = 1'-0"

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		DRAWN	PREPARED
NO.	DATE	O.A.	O.A.
	04/22/21	TRACED	APPROVED
		CHECKED	APPROVED
		J.D.	J.D.



State of Illinois  
**JB PRITZKER, GOVERNOR**  
Illinois Capital Development Board

**LIFE SAFETY PLAN**

NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE SREET  
ELGIN, KANE COUNTY, ILLINOIS

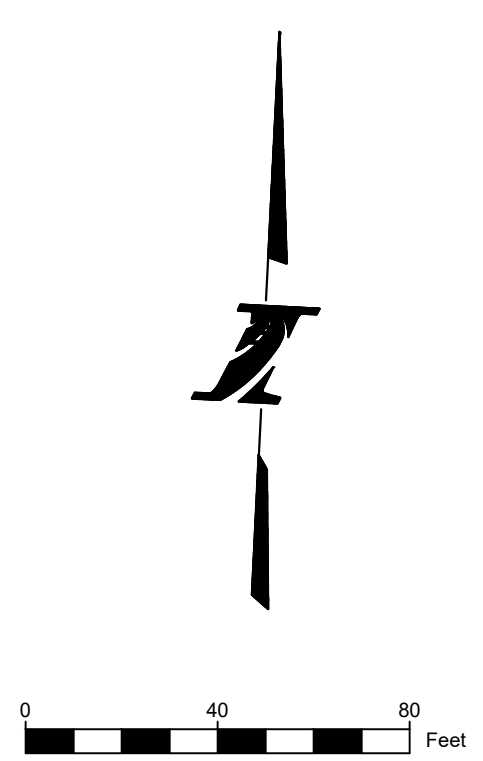
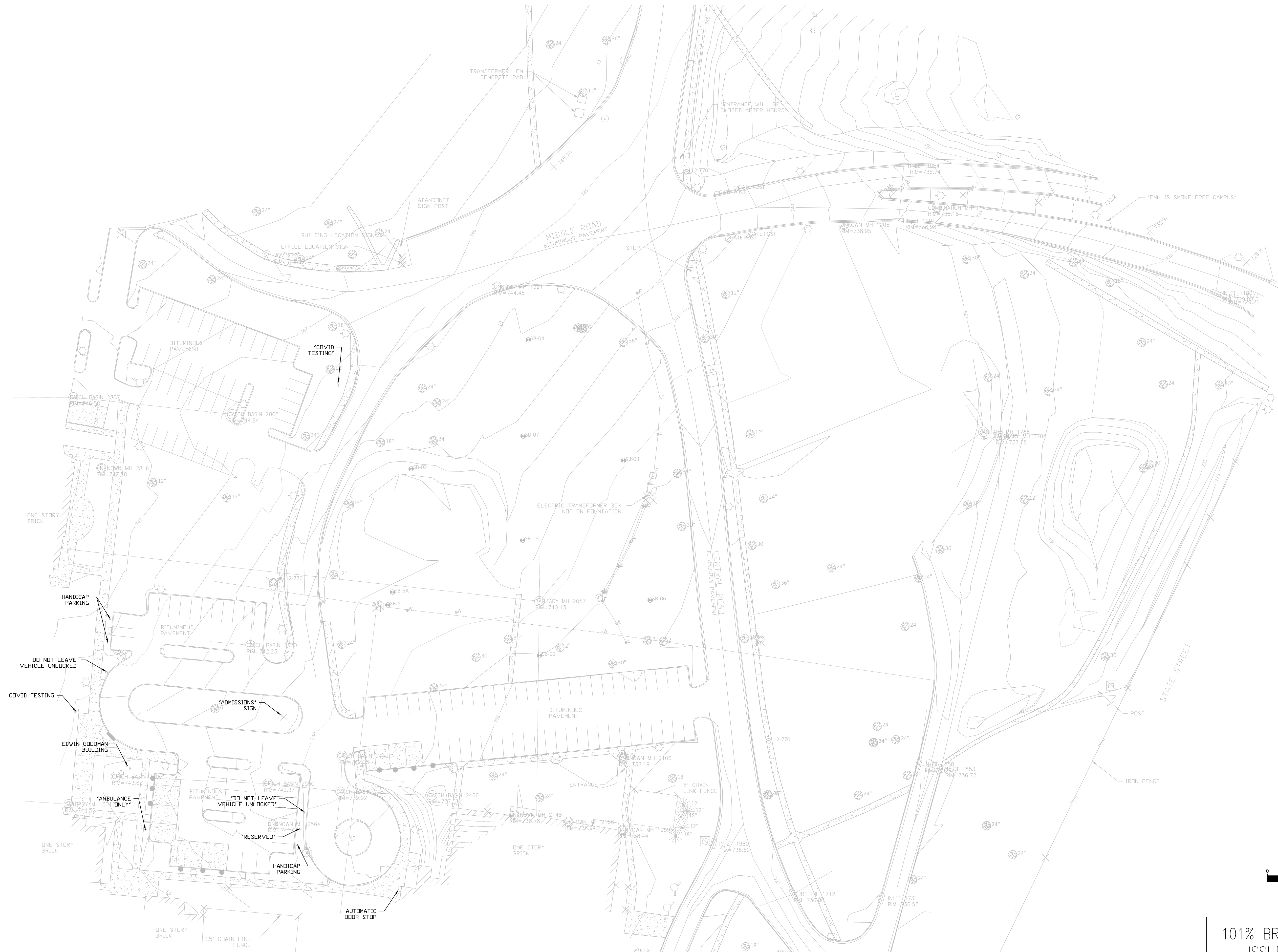
PROJECT NO. 321-055-138  
DATE 04/22/21  
SHEET NO. **G-2**  
2 OF 51 SHEETS

101% BRIDGING DOCUMENTS ISSUED FOR REVIEW  
04/22/21

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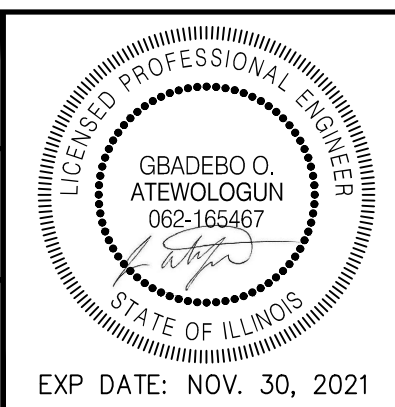


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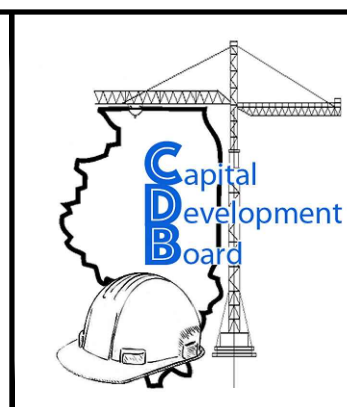
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CHECKED ---	APPROVED ---



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Illinois Capital Development Board

TOPOGRAPHIC SITE SURVEY  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

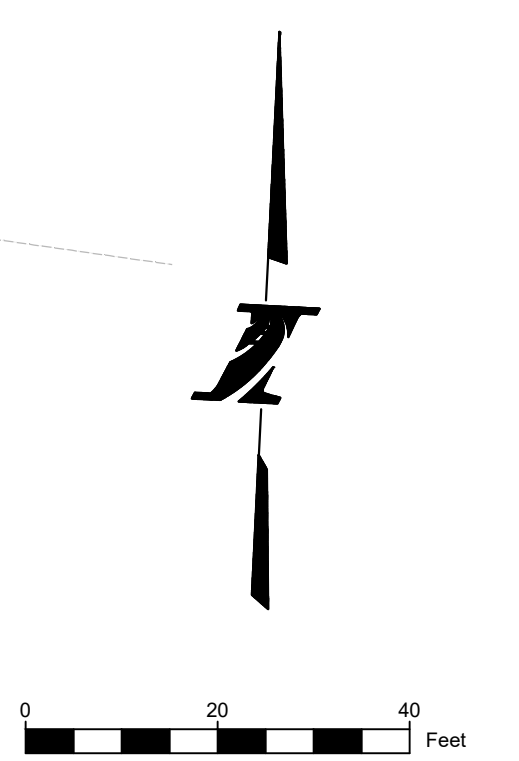
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321-055-138  
DATE  
4/22/2021  
SHEET NO.  
**C-1**  
3 OF (51) SHEETS



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**SITE DEMOLITION LEGEND**

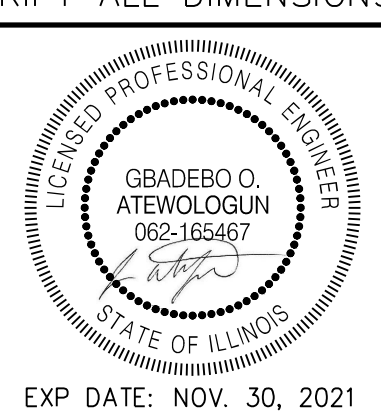
	TREE REMOVAL
	PCC CURB & GUTTER REMOVAL
	EXISTING PIPE REMOVAL
	BITUMINOUS ASPHALT REMOVAL
	PCC SIDEWALK REMOVAL



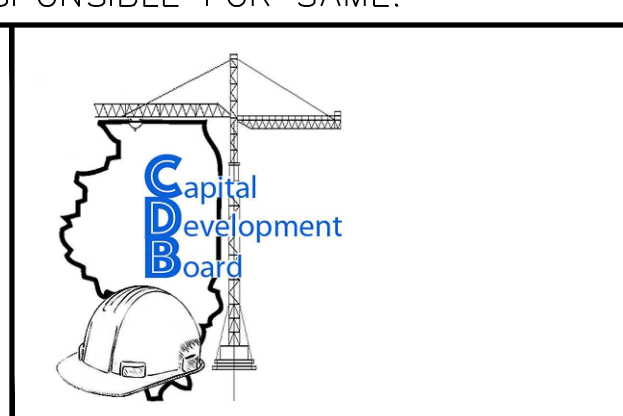
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REVISIONS			DRAWN	PREPARED
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Illinois Capital Development Board

SITE DEMOLITION PLAN  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
DATE  
4/22/2021  
SHEET NO.  
**C-2**  
4 OF (51) SHEETS



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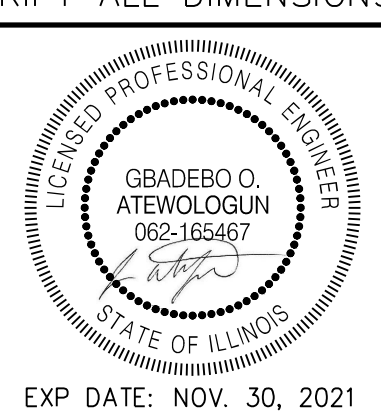
- SITE GEOMETRICS LEGEND**
- PCC CURB & GUTTER
  - PARKING LOT PAVEMENT MARKING
  - BOLLARD
  - HOT MIX ASPHALT (HMA) PAVEMENT
  - PCC SIDEWALK, 4"
  - GREENSPACE RESTORATION / LANDSCAPING

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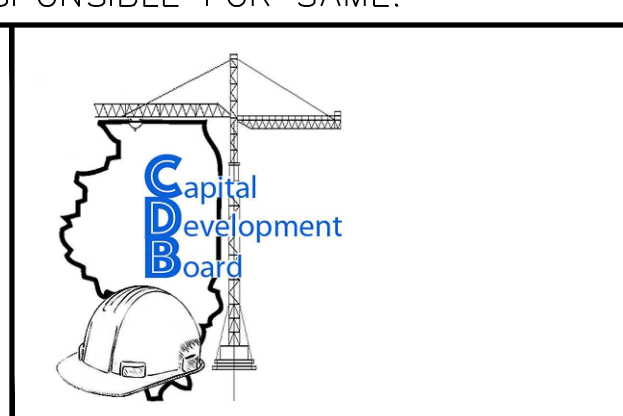
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GEOMETRIC SITE PLAN  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
DATE  
4/22/2021  
SHEET NO.  
**C-3**  
5 OF (51) SHEETS



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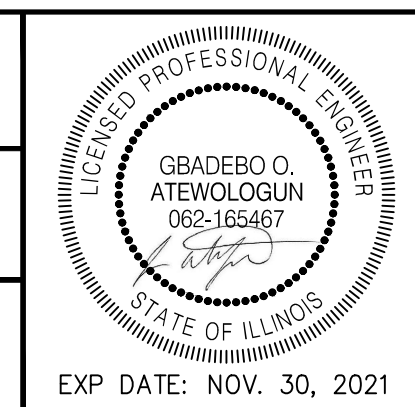


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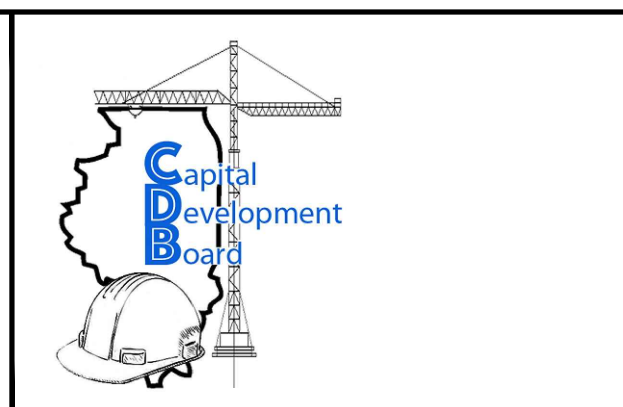
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Illinois Capital Development Board

SITE GRADING PLAN  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
DATE  
4/22/2021  
SHEET NO.  
**C-4**  
6 OF (51) SHEETS



**SITE UTILITIES (SEWER & WATER) LEGEND**

- W 8" — WATER MAIN
- >>> — STORM SEWER PIPE
- >>> — SANITARY SEWER PIPE
- ⊗ WATER MAIN PRESSURE CONN.



CONNECT 12" STORM SEWER TO EXISTING CATCH BASIN AND ADJUST FRAME & GRATE.  
 NOTE: EXISTING CATCH BASIN IS TRIBUTARY TO DETENTION BASIN ALONG THE SOUTH SIDE OF WEST AVENUE. DESIGN-BUILD CONTRACTOR TO DESIGN/VERIFY ALL DOWNSTREAM CONDITIONS.

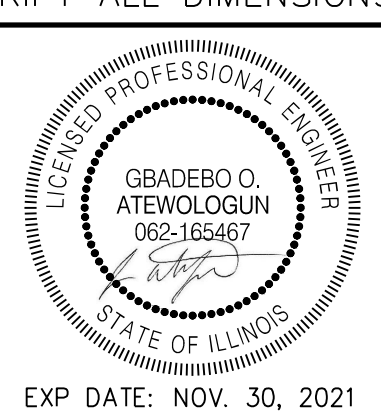
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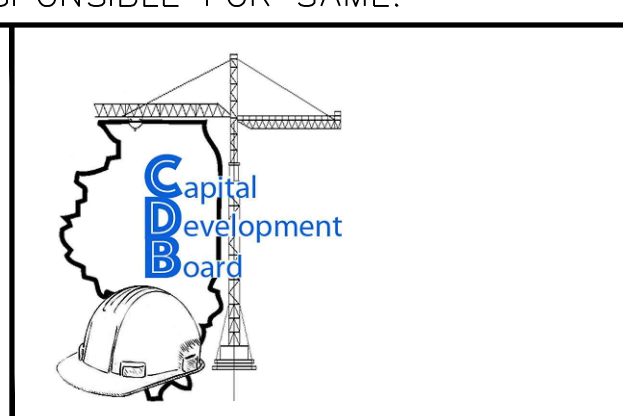
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SITE UTILITY PLAN - SEWER & WATER  
 NEW POWER PLANT  
 ELGIN MENTAL HEALTH CENTER  
 750 SOUTH STATE STREET  
 ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
 321-055-138  
 DATE  
 4/22/2021  
 SHEET NO.  
**C-5**  
 7 OF (51) SHEETS



**NOTES:**

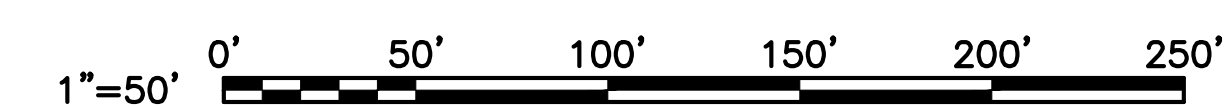
1. UNLESS INDICATED OTHERWISE, NEW SITE STEAM PIPES AND GAS PIPES ARE DIRECT-BURIED INSTALLATION.
2. EXISTING INACTIVE UNDERGROUND GAS PIPES AND STEAM PIPES TO BE ABANDONED AFTER NEW WORK.

REFER TO C-7 FOR CONT.



**SITE UTILITY PLAN - STEAM AND NATURAL GAS**

SCALE: 1:100'

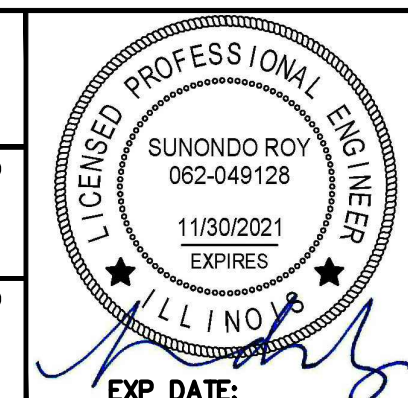


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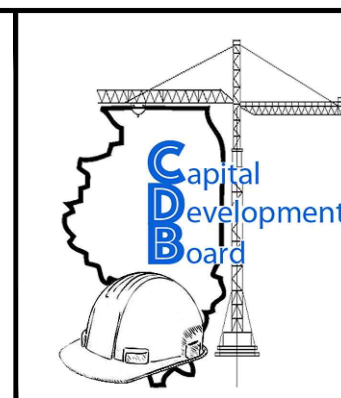
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SITE UTILITY PLAN  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
DATE  
4/22/2021  
SHEET NO.  
**C-6**  
8 OF (51) SHEETS

C-6\_7 SITE UTILITY.DWG

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SCI PrJ # 23390.01.00 (PW-008)



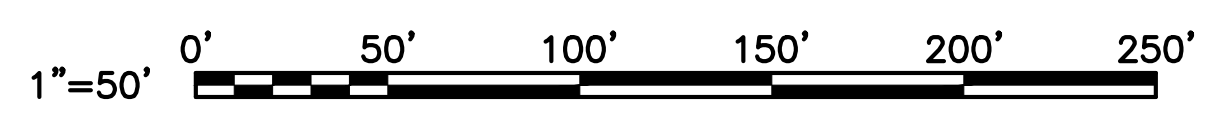


REFER TO C-6 FOR CONT.



**SITE UTILITY PLAN - NATURAL GAS**

SCALE: 1:100'



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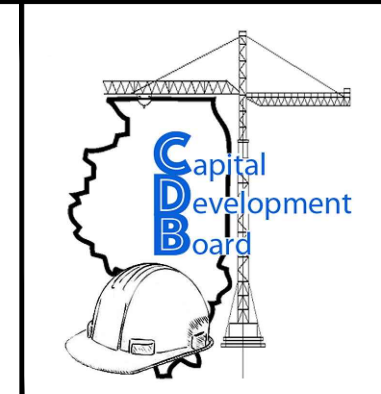
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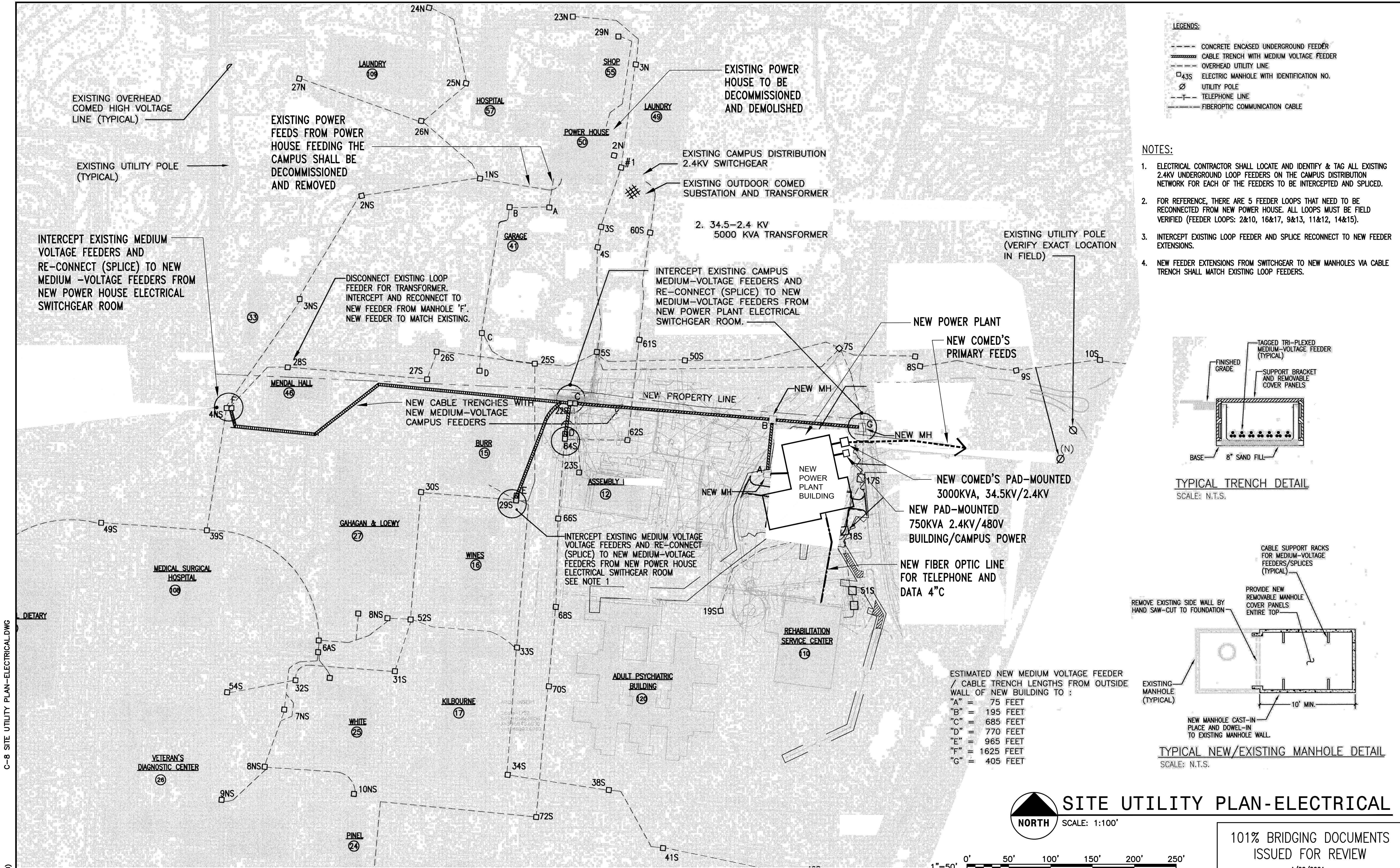


State of Illinois  
**JB PRITZKER, GOVERNOR**  
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SITE UTILITY PLAN  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

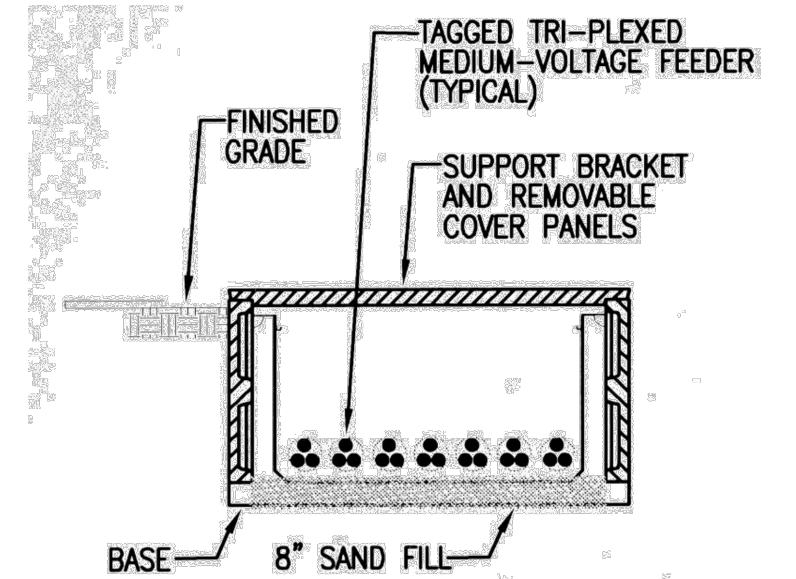
PROJECT NO.  
321-055-138  
DATE  
4/22/2021  
SHEET NO.  
**C-7**  
9 OF (51) SHEETS



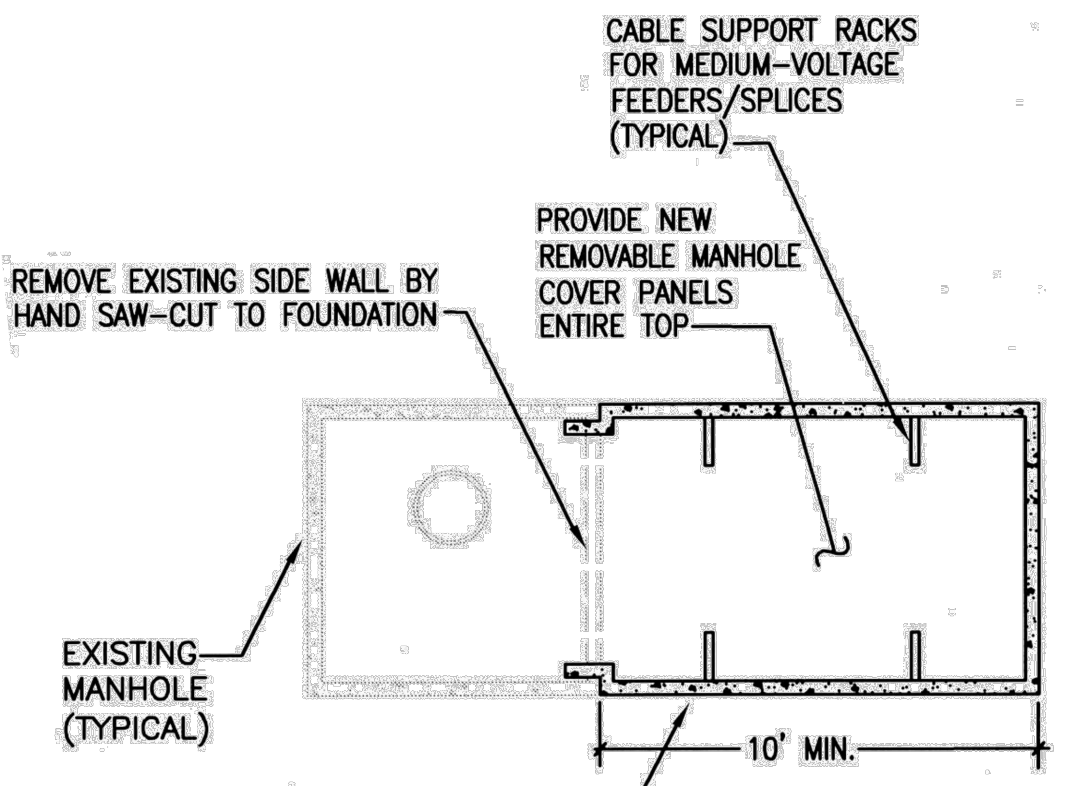


- LEGENDS:**
- CONCRETE ENCASED UNDERGROUND FEEDER
  - CABLE TRENCH WITH MEDIUM VOLTAGE FEEDER
  - OVERHEAD UTILITY LINE
  - 43S ELECTRIC MANHOLE WITH IDENTIFICATION NO.
  - UTILITY POLE
  - TELEPHONE LINE
  - FIBEROPTIC COMMUNICATION CABLE

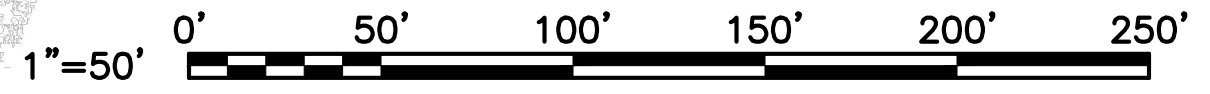
- NOTES:**
1. ELECTRICAL CONTRACTOR SHALL LOCATE AND IDENTIFY & TAG ALL EXISTING 2.4KV UNDERGROUND LOOP FEEDERS ON THE CAMPUS DISTRIBUTION NETWORK FOR EACH OF THE FEEDERS TO BE INTERCEPTED AND SPLICED.
  2. FOR REFERENCE, THERE ARE 5 FEEDER LOOPS THAT NEED TO BE RECONNECTED FROM NEW POWER HOUSE. ALL LOOPS MUST BE FIELD VERIFIED (FEEDER LOOPS: 2&10, 16&17, 9&13, 11&12, 14&15).
  3. INTERCEPT EXISTING LOOP FEEDER AND SPLICE RECONNECT TO NEW FEEDER EXTENSIONS.
  4. NEW FEEDER EXTENSIONS FROM SWITCHGEAR TO NEW MANHOLES VIA CABLE TRENCH SHALL MATCH EXISTING LOOP FEEDERS.



- ESTIMATED NEW MEDIUM VOLTAGE FEEDER / CABLE TRENCH LENGTHS FROM OUTSIDE WALL OF NEW BUILDING TO :
- "A" = 75 FEET
  - "B" = 195 FEET
  - "C" = 685 FEET
  - "D" = 770 FEET
  - "E" = 965 FEET
  - "F" = 1625 FEET
  - "G" = 405 FEET



**SITE UTILITY PLAN-ELECTRICAL**  
SCALE: 1:100'



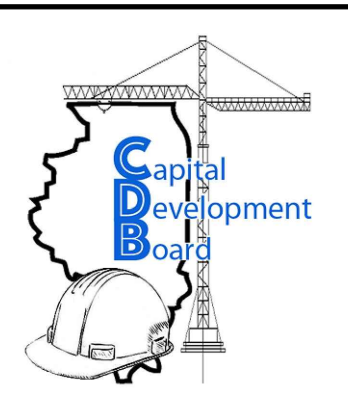
101% BRIDGING DOCUMENTS  
ISSUED FOR REVIEW  
4/22/2021

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS			DRAWN	PREPARED
NO.	DATE	REMARKS	---	---
			TRACED	APPROVED
			CHECKED	APPROVED



**Stanley Consultants INC.**  
8501 West Higgins Road, Suite 730, Chicago, Illinois 60631-2801  
www.stanleyconsultants.com  
Illinois Firm Registration No.: 184-001533



State of Illinois  
**JB PRITZKER, GOVERNOR**  
Illinois Capital Development Board

SITE UTILITY PLAN ELECTRICAL  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

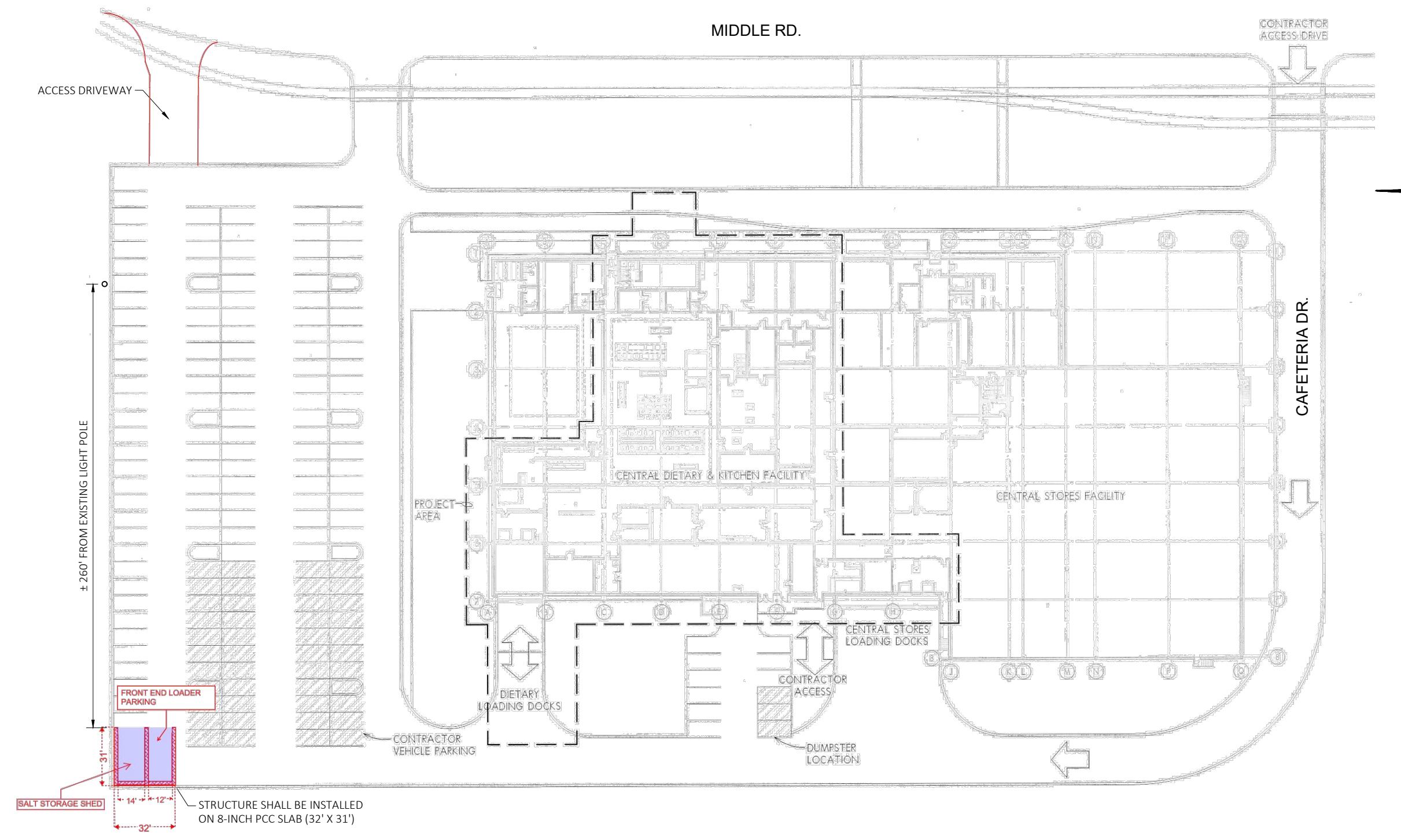
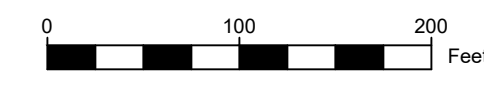
PROJECT NO. 321-055-138  
DATE 4/22/2021  
SHEET NO. **C-8**  
10 OF (51) SHEETS

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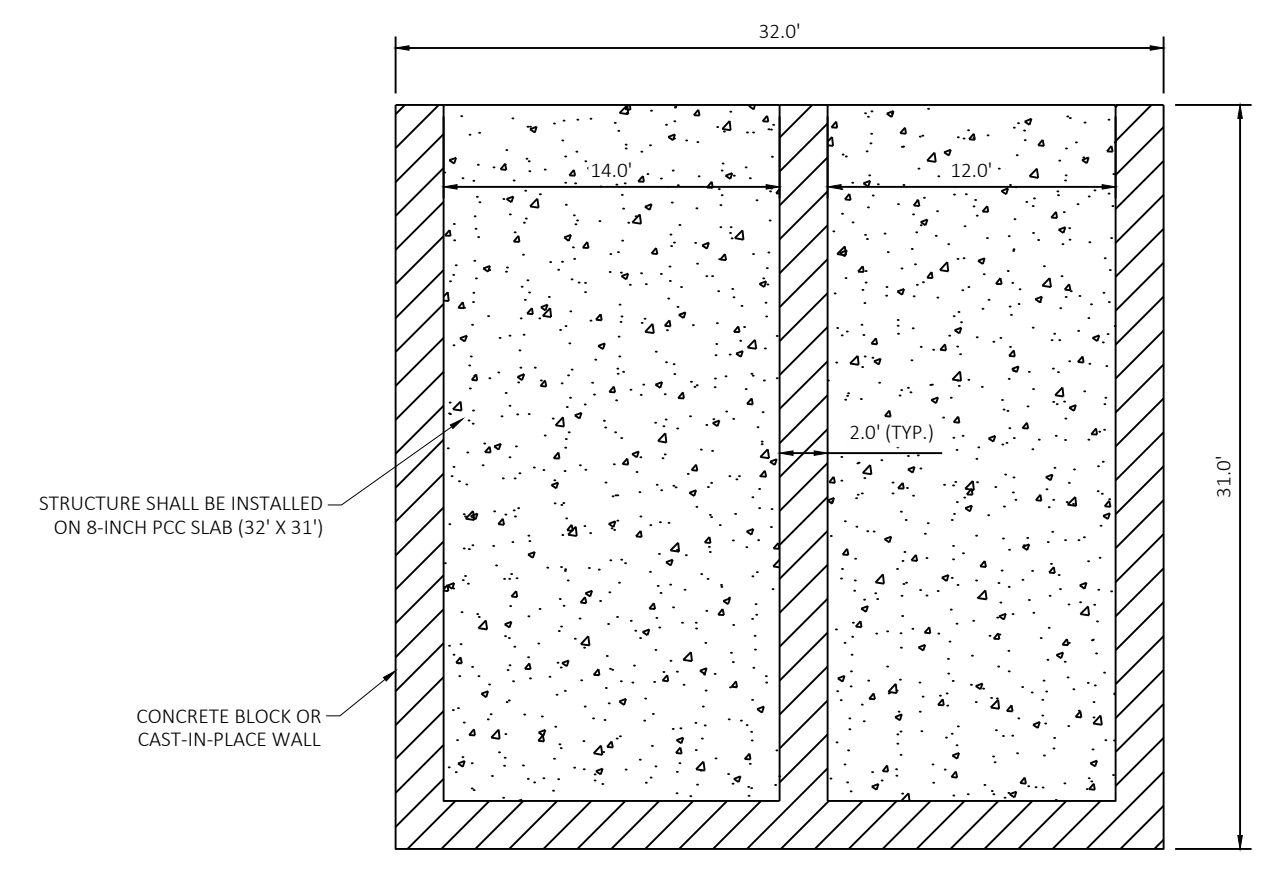
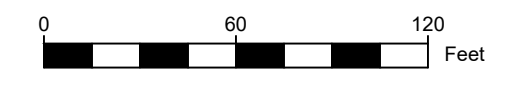




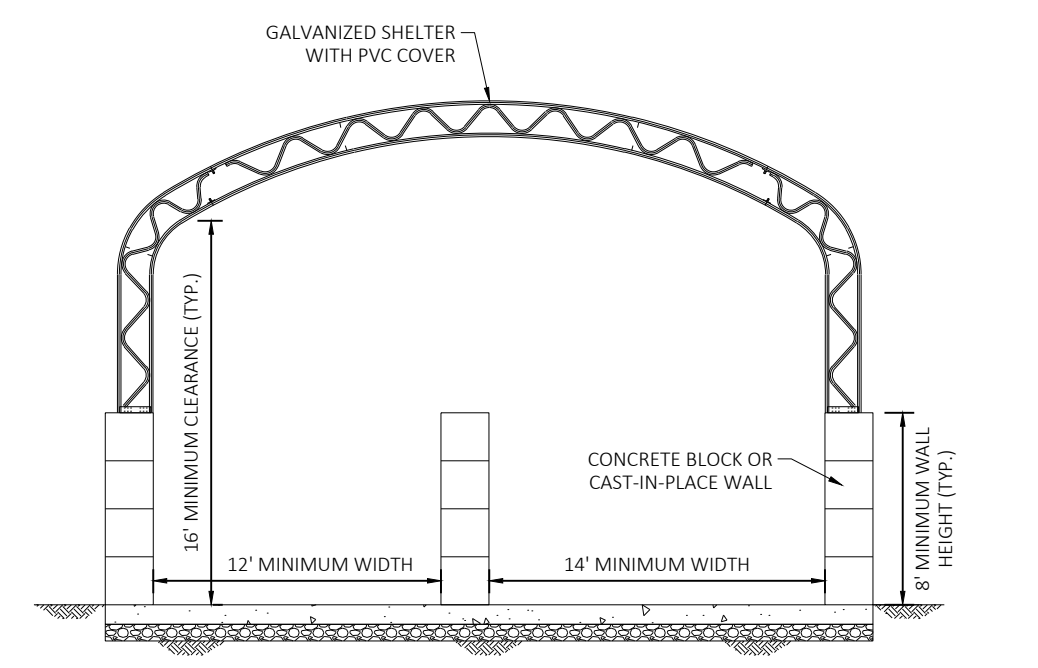
REMOTE SALT STORAGE LOCATION MAP  
SCALE: 1" = 100'



REMOTE SALT STORAGE PLAN OVERVIEW  
SCALE: 1" = 60'



REMOTE SALT STORAGE SHED (PLAN)  
SCALE: 1" = 8'



REMOTE SALT STORAGE SHED (ELEVATION - LOOKING EAST)  
SCALE: 1" = 8'



GENERAL NOTES:

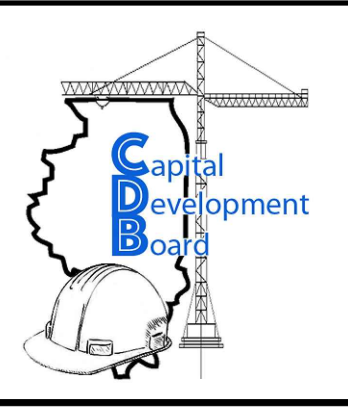
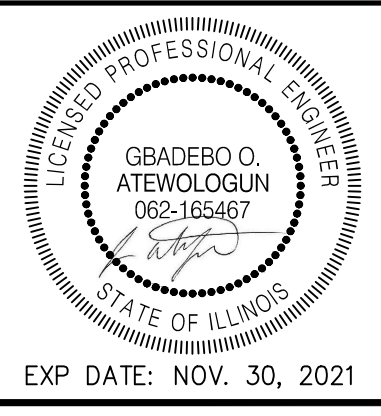
- ALTERNATE 1 - WORK SHOWN ON THIS DRAWING IS TO BE INCLUDED AS PART OF ALTERNATE 1.

101% BRIDGING DOCUMENTS  
ISSUED FOR REVIEW

4/22/2021

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS			DRAWN	PREPARED
NO.	DATE	REMARKS	BRB	BRB
			TRACED	APPROVED
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			CHECKED	APPROVED
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State of Illinois  
**JB PRITZKER, GOVERNOR**  
Illinois Capital Development Board

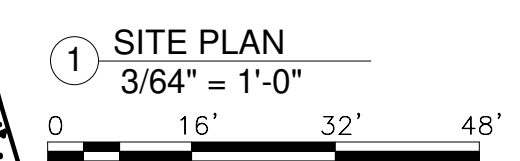
REMOTE SALT STORAGE PLAN  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
DATE  
4/22/2021  
SHEET NO.  
**C-9**  
11 OF (51) SHEETS





NOTE:  
SEE SHEET C-3 FOR SITE LOCATION OF THE BUILDING COORDINATES.

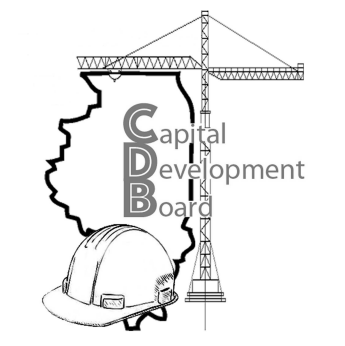
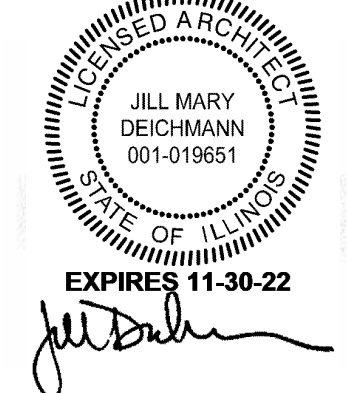


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04/22/21

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REVISIONS			DRAWN	PREPARED
NO.	DATE	REMARKS	O.A.	O.A.
	04/22/21		TRACED	APPROVED
			CHECKED	APPROVED
			J.D.	J.D.



State of Illinois  
**JB PRITZKER, GOVERNOR**  
**Illinois Capital Development Board**

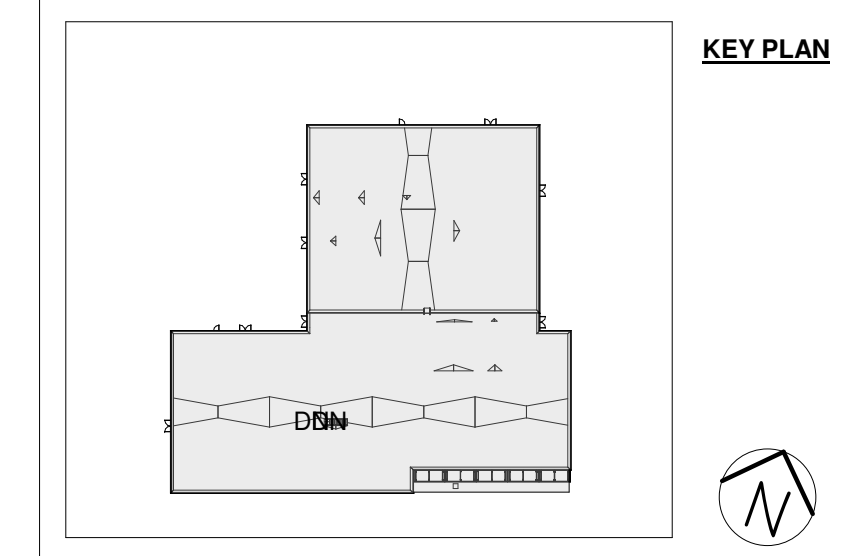
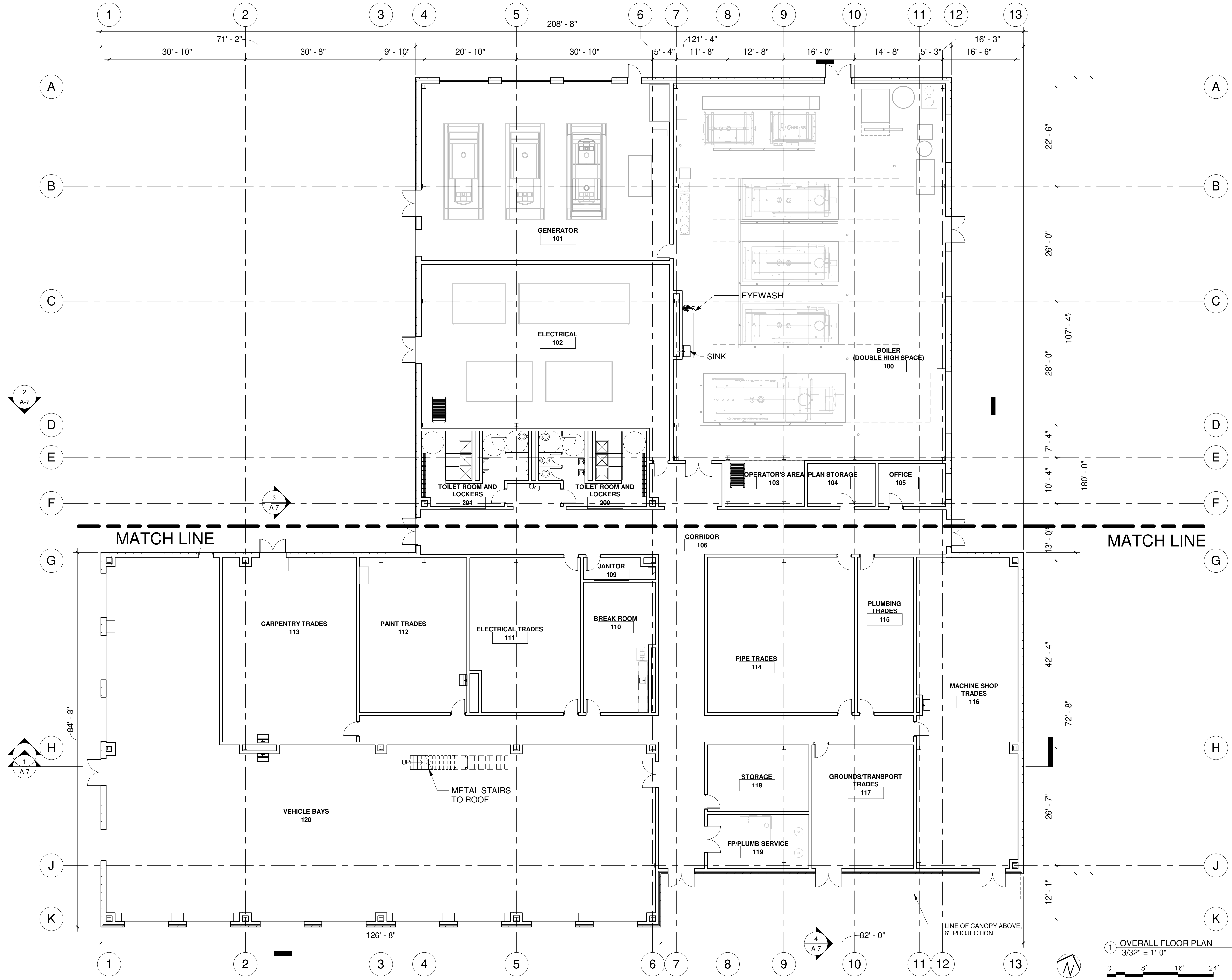
ARCHITECTURAL SITE PLAN  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE SREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
DATE  
04/22/21  
SHEET NO.  
**A-1**  
12 OF 51 SHEETS

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- GENERAL NOTES**
1. REFER TO STRUCTURAL DRAWINGS FOR CONSTRUCTION COMPONENTS.
  2. REFER TO HEATING AND VENTILATION DRAWINGS FOR CONSTRUCTION COMPONENTS.
  3. REFER TO PLUMBING DRAWINGS FOR CONSTRUCTION COMPONENTS.
  4. REFER TO ELECTRICAL DRAWINGS FOR CONSTRUCTION COMPONENTS.
  5. THE DRAWINGS ARE BASED ON CMU WALL CONSTRUCTION. THE D/B TEAM WILL HAVE THE OPTION TO PROVIDE PRE-CAST WITH BRICK VENEER CONSTRUCTION FOR THE BUILDING ENCLOSURE. SEE BASIS OF DESIGN AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

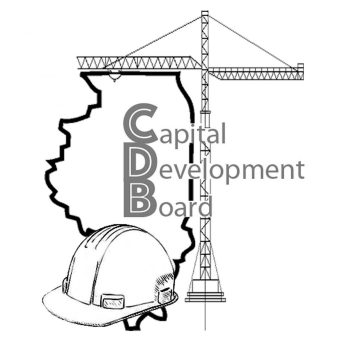
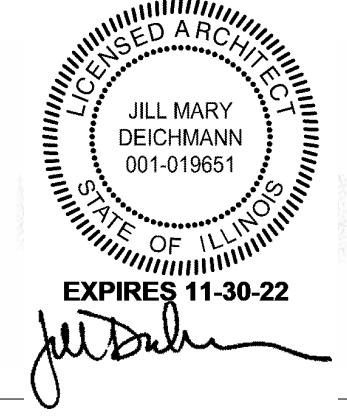


1 OVERALL FLOOR PLAN  
3/32" = 1'-0"

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ISSUED FOR REVIEW

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS			DRAWN	PREPARED
NO.	DATE	REMARKS	O.A.	O.A.
	04/22/21		TRACED	APPROVED
			CHECKED	APPROVED
			J.D.	J.D.



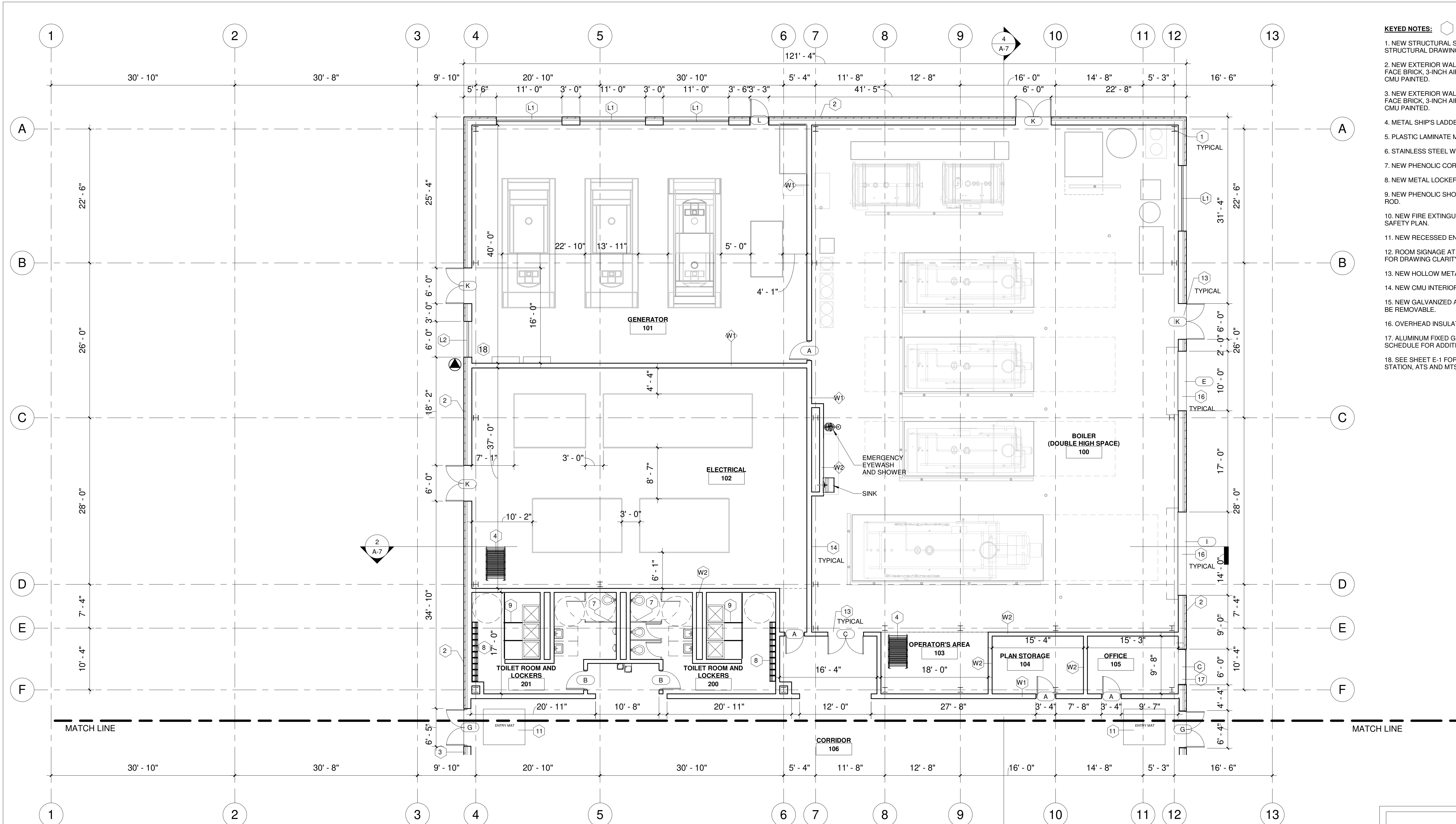
State of Illinois  
**JB PRITZKER, GOVERNOR**  
**Illinois Capital Development Board**

**OVERALL FLOOR PLAN**  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE SREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
DATE  
04/22/21  
SHEET NO.  
**A-2**  
13 OF 51 SHEETS

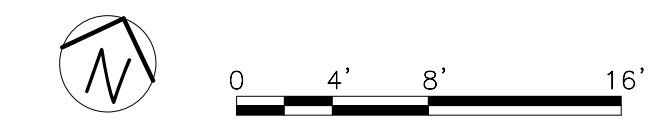
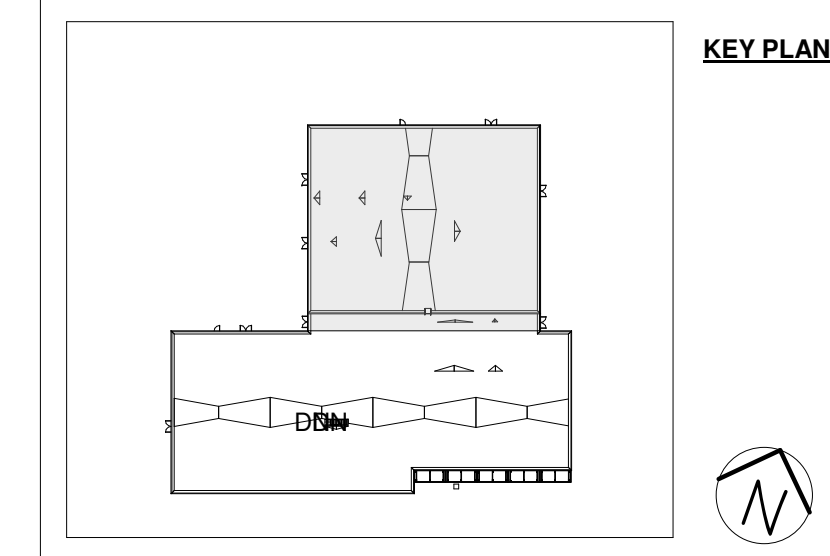
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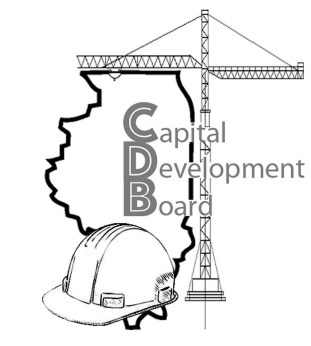
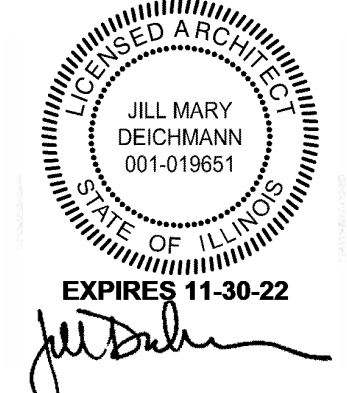
- KEYED NOTES:**
1. NEW STRUCTURAL STEEL COLUMNS, REFER TO STRUCTURAL DRAWINGS.
  2. NEW EXTERIOR WALL SYSTEM AT 2 STORY HEIGHT: 4-INCH FACE BRICK, 3-INCH AIR SPACE, 2-INCH INSULATION, 10-INCH CMU PAINTED.
  3. NEW EXTERIOR WALL SYSTEM AT 1 STORY HEIGHT: 4-INCH FACE BRICK, 3-INCH AIR SPACE, 2-INCH INSULATION, 8-INCH CMU PAINTED.
  4. METAL SHIP'S LADDER - GALVANIZED ALUMINUM
  5. PLASTIC LAMINATE MILLWORK AND COUNTERTOP.
  6. STAINLESS STEEL WORK SINKS - WALL MOUNTED.
  7. NEW PHENOLIC CORE TOILET PARTITIONS.
  8. NEW METAL LOCKERS, STACKED.
  9. NEW PHENOLIC SHOWER ENCLOSURE WITH CURTAIN AND ROD.
  10. NEW FIRE EXTINGUISHERS AND CABINETS. SEE LIFE SAFETY PLAN.
  11. NEW RECESSED ENTRANCE FLOOR MATS AT ENTRIES.
  12. ROOM SIGNAGE AT ALL DOOR OPENINGS, NOT SHOWN FOR DRAWING CLARITY.
  13. NEW HOLLOW METAL DOORS AND FRAMES, PAINTED.
  14. NEW CMU INTERIOR PARTITIONS.
  15. NEW GALVANIZED ALUMINUM GUARDRAIL. PORTIONS TO BE REMOVABLE.
  16. OVERHEAD INSULATED STEEL DOOR AND FRAME.
  17. ALUMINUM FIXED GLAZED OPENING, SEE OPENING SCHEDULE FOR ADDITIONAL INFORMATION.
  18. SEE SHEET E-1 FOR EMERGENCY GENERATOR DOCKING STATION, ATS AND MTS INFORMATION

1 PARTIAL FLOOR PLAN - NORTH  
1/8" = 1'-0"



NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS			DRAWN	PREPARED
NO.	DATE	REMARKS	O.A.	O.A.
	04/22/21		TRACED	APPROVED
			CHECKED	APPROVED
			J.D.	J.D.



State of Illinois  
**JB PRITZKER, GOVERNOR**  
 Illinois Capital Development Board

PARTIAL FLOOR PLAN NORTH  
 NEW POWER PLANT  
 ELGIN MENTAL HEALTH CENTER  
 750 SOUTH STATE SREET  
 ELGIN, KANE COUNTY, ILLINOIS

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04/22/21

PROJECT NO.  
321-055-138

DATE  
04/22/21

SHEET NO.

**A-2.1**

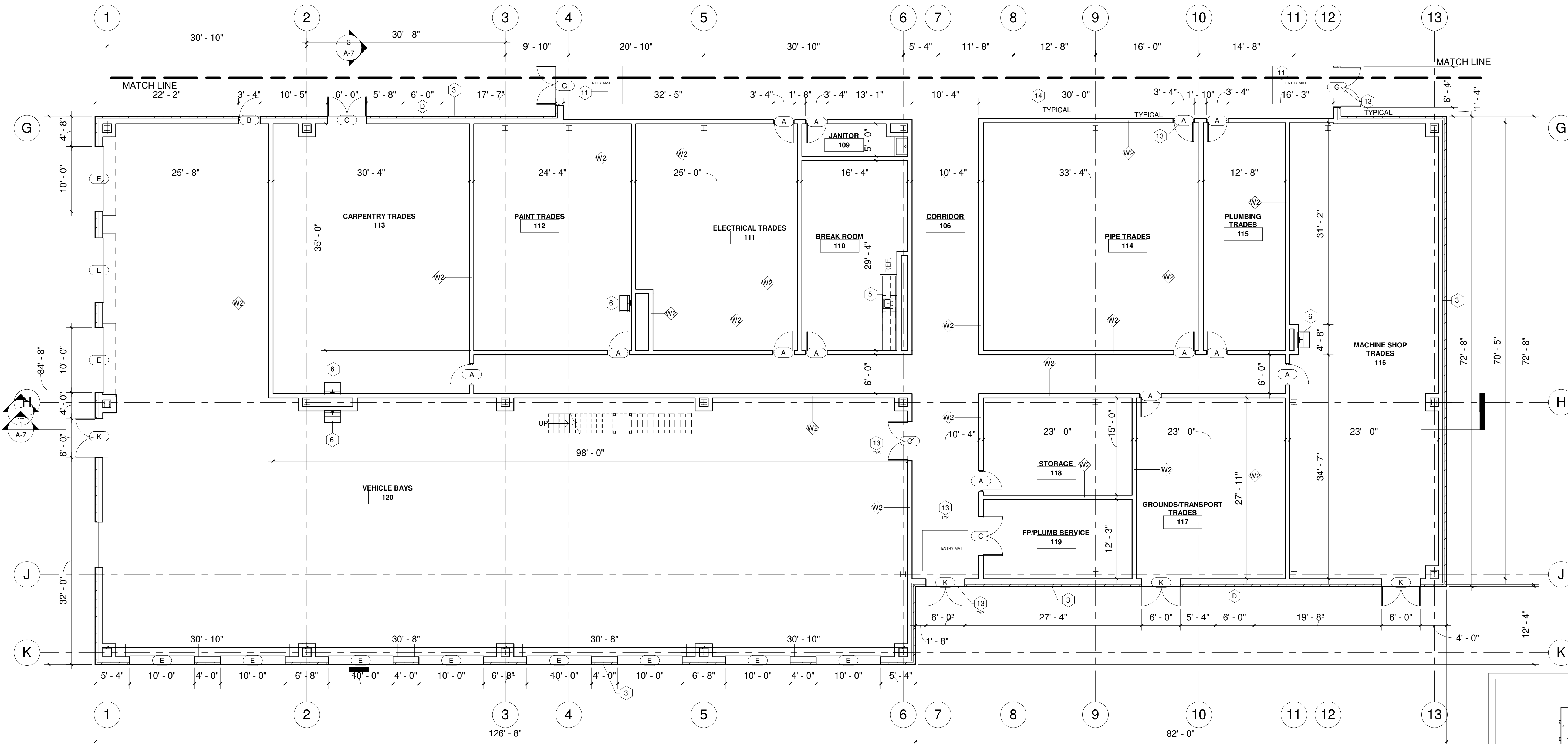
14 OF 51 SHEETS

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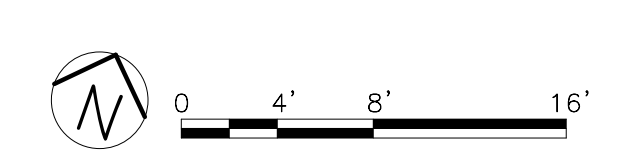
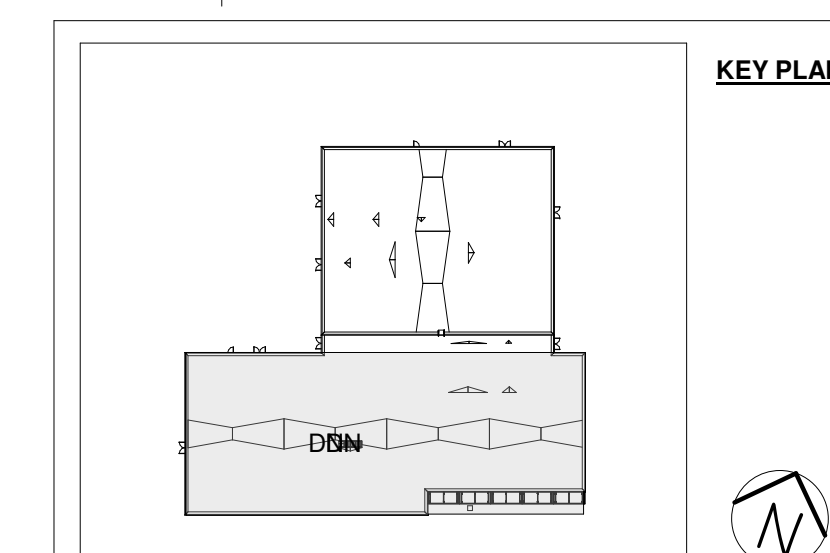


**KEYED NOTES:**

1. NEW STRUCTURAL STEEL COLUMNS, REFER TO STRUCTURAL DRAWINGS.
2. NEW EXTERIOR WALL SYSTEM AT 2 STORY HEIGHT: 4-INCH FACE BRICK, 3-INCH AIR SPACE, 2-INCH INSULATION, 10-INCH CMU PAINTED.
3. NEW EXTERIOR WALL SYSTEM AT 1 STORY HEIGHT: 4-INCH FACE BRICK, 3-INCH AIR SPACE, 2-INCH INSULATION, 8-INCH CMU PAINTED.
4. METAL SHIP'S LADDER - GALVANIZED ALUMINUM
5. PLASTIC LAMINATE MILLWORK AND COUNTERTOP.
6. STAINLESS STEEL WORK SINKS - WALL MOUNTED.
7. NEW PHENOLIC CORE TOILET PARTITIONS.
8. NEW METAL LOCKERS, STACKED.
9. NEW PHENOLIC SHOWER ENCLOSURE WITH CURTAIN AND ROD.
10. NEW FIRE EXTINGUISHERS AND CABINETS. SEE LIFE SAFETY PLAN.
11. NEW RECESSED ENTRANCE FLOOR MATS AT ENTRIES.
12. ROOM SIGNAGE AT ALL DOOR OPENINGS, NOT SHOWN FOR DRAWING CLARITY.
13. NEW HOLLOW METAL DOORS AND FRAMES, PAINTED.
14. NEW CMU INTERIOR PARTITIONS.
15. NEW GALVANIZED ALUMINUM GUARDRAIL. PORTIONS TO BE REMOVABLE.
16. OVERHEAD INSULATED STEEL DOOR AND FRAME.
17. ALUMINUM FIXED GLAZED OPENING. SEE OPENING SCHEDULE FOR ADDITIONAL INFORMATION.

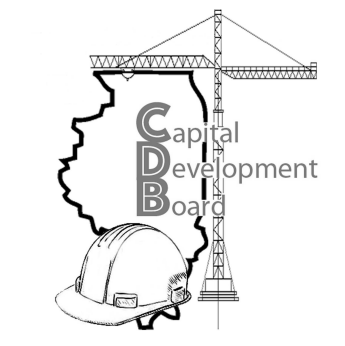
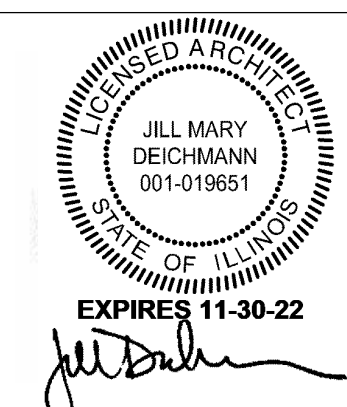


1 PARTIAL FLOOR PLAN - SOUTH  
1/8" = 1'-0"



NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		DRAWN	PREPARED
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	04/22/21	TRACED	APPROVED
		CHECKED	APPROVED
		J.D.	J.D.



State of Illinois  
**JB PRITZKER, GOVERNOR**  
Illinois Capital Development Board

PARTIAL FLOOR PLAN SOUTH  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE SREET  
ELGIN, KANE COUNTY, ILLINOIS

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PROJECT NO.  
321-055-138

DATE  
04/22/21

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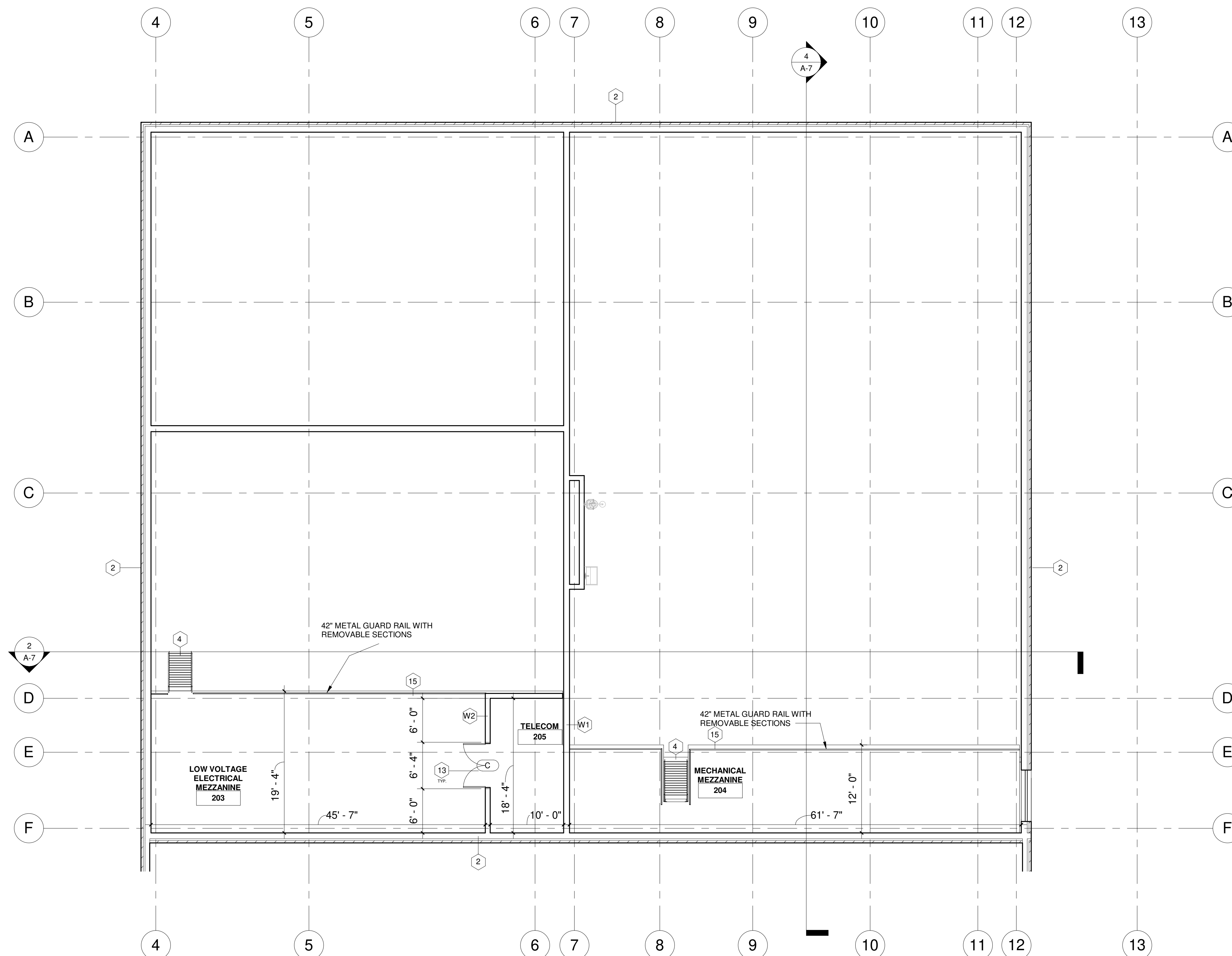
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15 OF 51 SHEETS

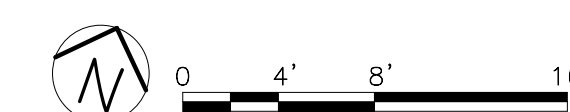
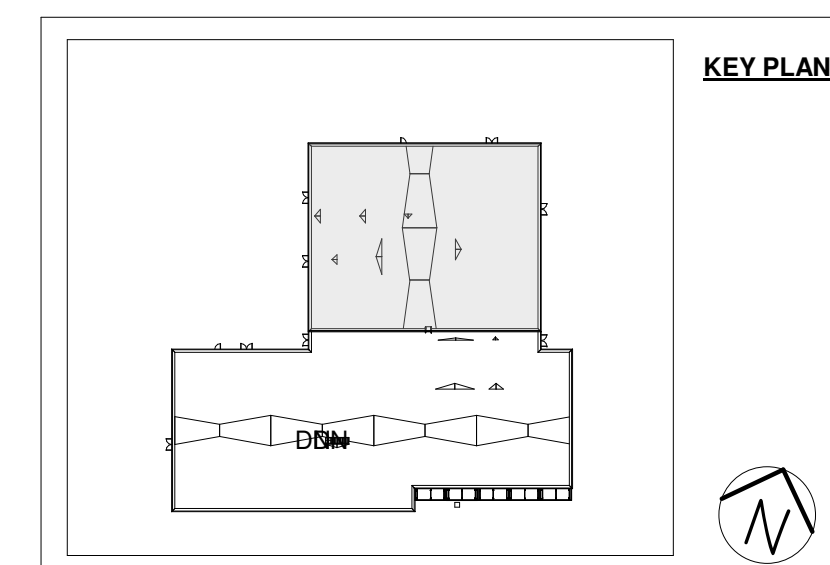
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- KEYED NOTES:**
1. NEW STRUCTURAL STEEL COLUMNS, REFER TO STRUCTURAL DRAWINGS.
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  13. NEW HOLLOW METAL DOORS AND FRAMES, PAINTED.
  14. NEW CMU INTERIOR PARTITIONS.
  15. NEW GALVANIZED ALUMINUM GUARDRAIL. PORTIONS TO BE REMOVABLE.



② MEZZANINE  
1/8" = 1'-0"



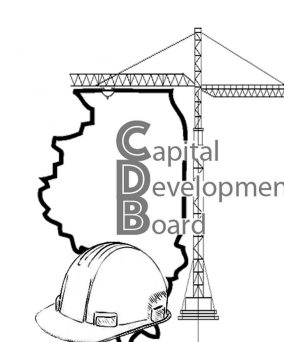
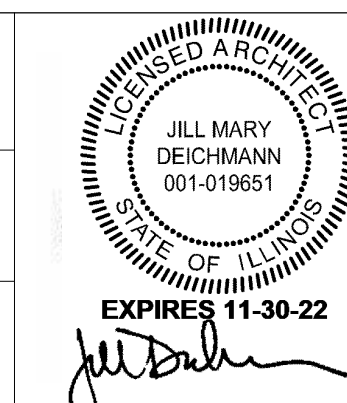
101% BRIDGING DOCUMENTS  
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04/22/21

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REVISIONS		
NO.	DATE	REMARKS
	04/22/21	

DRAWN		PREPARED	
O.A.	O.A.	O.A.	O.A.
TRACED	APPROVED		
CHECKED	APPROVED		
J.D.	J.D.		



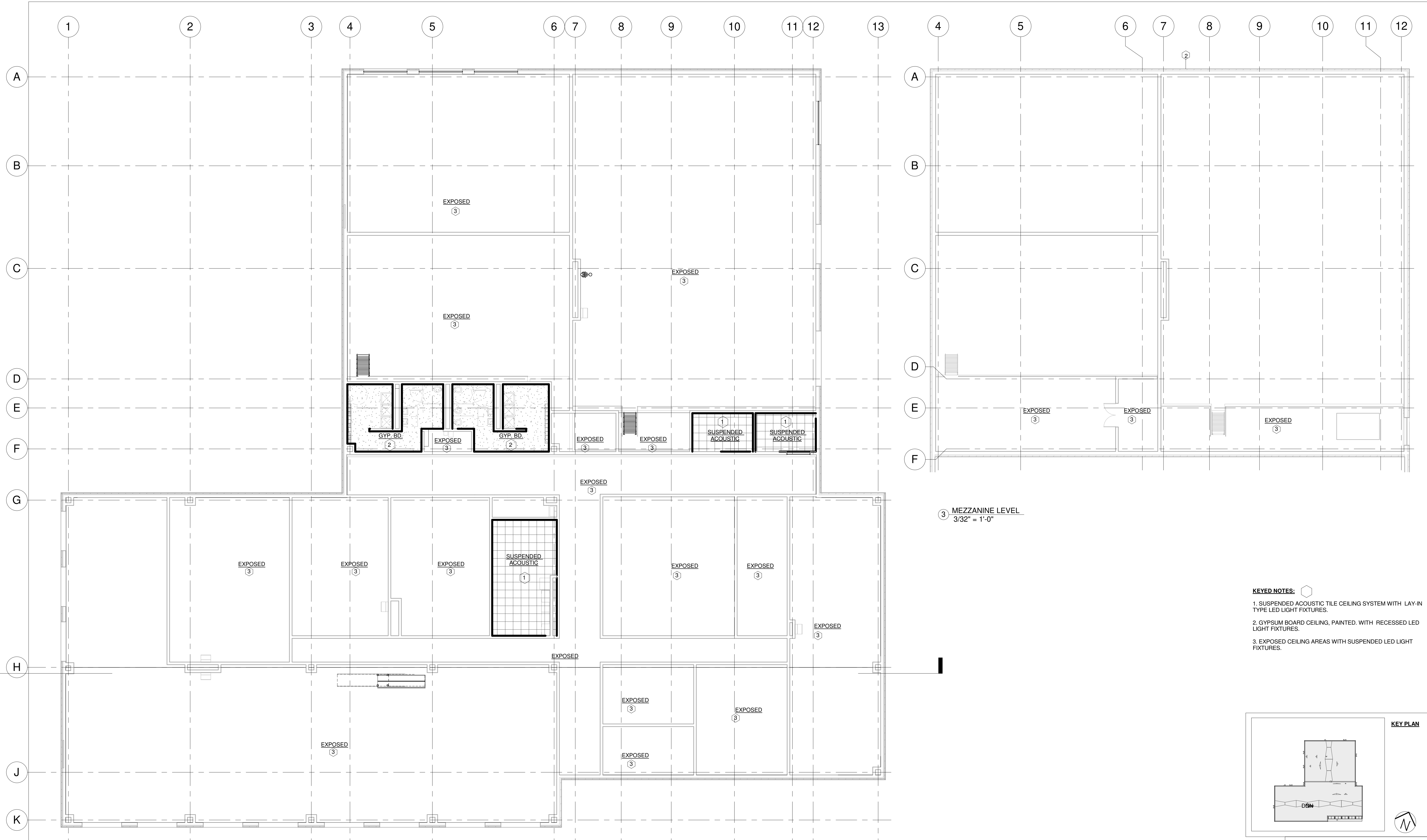
State of Illinois  
**JB PRITZKER, GOVERNOR**  
Illinois Capital Development Board

MEZZANINE LEVEL  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE SREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
DATE  
04/22/21  
SHEET NO.  
**A-3**  
16 OF 51 SHEETS

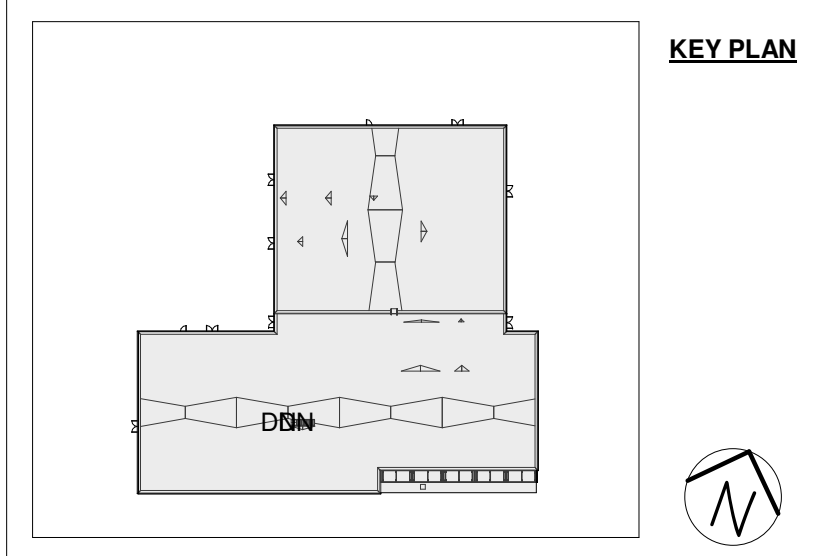
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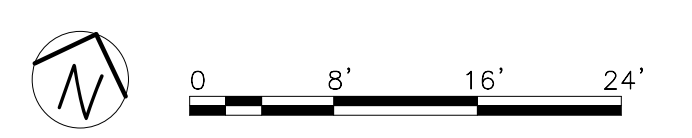
③ MEZZANINE LEVEL  
3/32" = 1'-0"

- KEYED NOTES:**
- 1. SUSPENDED ACOUSTIC TILE CEILING SYSTEM WITH LAY-IN TYPE LED LIGHT FIXTURES.
  - 2. GYPSUM BOARD CEILING, PAINTED. WITH RECESSED LED LIGHT FIXTURES.
  - 3. EXPOSED CEILING AREAS WITH SUSPENDED LED LIGHT FIXTURES.



① REFLECTED CEILING PLAN  
3/32" = 1'-0"

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

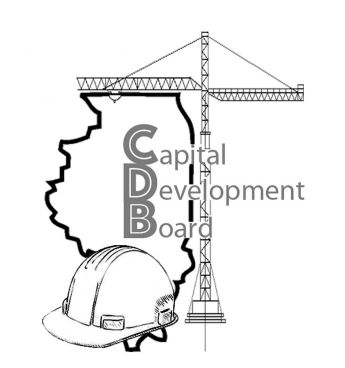


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04/22/21

REVISIONS		DRAWN	PREPARED
NO.	DATE	O.A.	O.A.
	04/22/21	TRACED	APPROVED
		CHECKED	APPROVED
		J.D.	J.D.

ILLINOIS ARCHITECT  
JILL MARY DEICHMANN  
001-019651  
EXPIRES 11-30-22



State of Illinois  
**JB PRITZKER, GOVERNOR**  
Illinois Capital Development Board

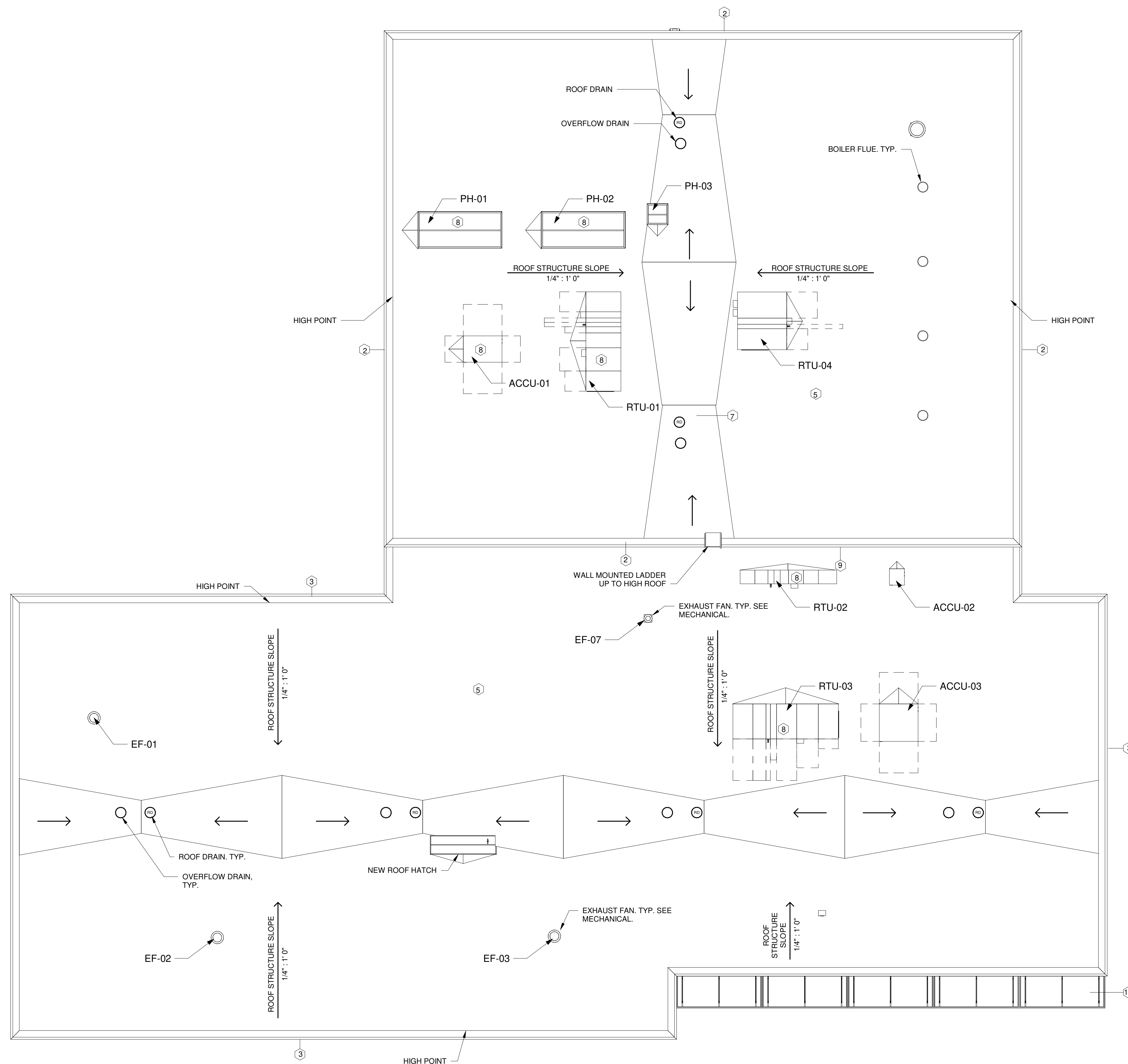
REFLECTED CEILING PLAN  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE SREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
DATE  
04/22/21  
SHEET NO.  
**A-4**  
17 OF 51 SHEETS

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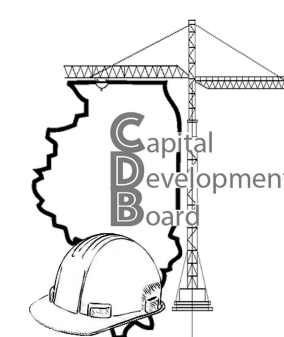
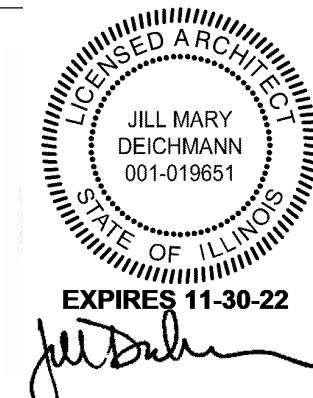
- KEYED NOTES:**
1. NEW STRUCTURAL STEEL COLUMNS, REFER TO STRUCTURAL DRAWINGS.
  2. NEW EXTERIOR WALL SYSTEM AT 2 STORY HEIGHT: 4-INCH FACE BRICK, 3-INCH AIR SPACE, 2-INCH INSULATION, 10-INCH CMU PAINTED.
  3. NEW EXTERIOR WALL SYSTEM AT 1 STORY HEIGHT: 4-INCH FACE BRICK, 3-INCH AIR SPACE, 2-INCH INSULATION, 8-INCH CMU PAINTED.
  4. METAL SHIP'S LADDER - GALVANIZED ALUMINUM
  5. ROOF SYSTEM: TPO MEMBRANE ROOFING, NO TORCH SYSTEM ALLOWED WITH R-30 INSULATION. ROOF FRAMING TO BE SLOPED. SLOPE A MINIMUM OF 1/4" PER FOOT.
  6. CRICKET AREAS TO BE TAPERED INSULATION SYSTEM.
  7. INTERIOR ROOF DRAINING AND EMERGENCY OVERFLOW DRAINING. SEE PLUMBING DRAWINGS.
  8. REFER TO HEATING AND VENTILATION DRAWINGS FOR NEW EQUIPMENT.
  9. NEW METAL COPING SYSTEM.
  10. NEW WALK WAY PADS TO ACCESS ALL EQUIPMENT.
  11. PRE-FABRICATED CANOPY.



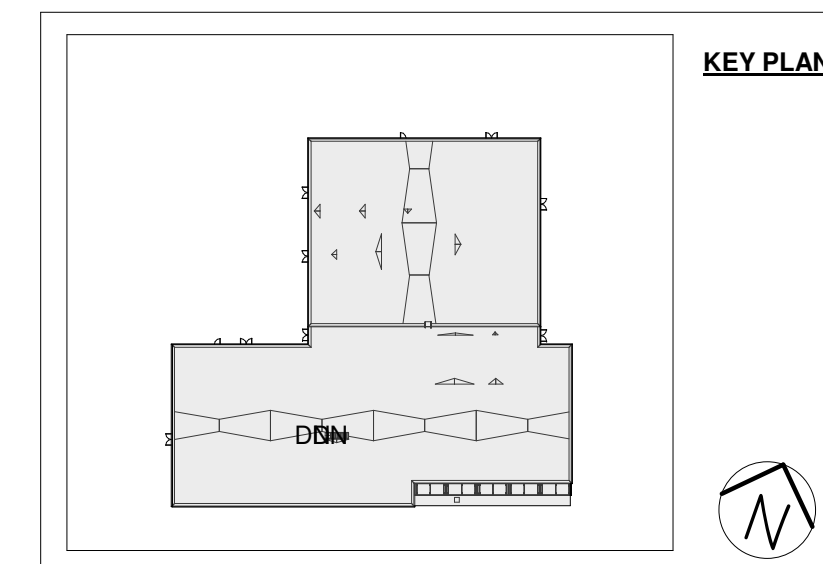
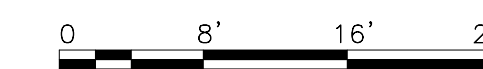
1 ROOF PLAN  
3/32" = 1'-0"

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS			DRAWN	PREPARED
NO.	DATE	REMARKS	O.A.	O.A.
	04/22/21		TRACED	APPROVED
			CHECKED	APPROVED
			J.D.	J.D.



State of Illinois  
**JB PRITZKER, GOVERNOR**  
**Illinois Capital Development Board**



101% BRIDGING DOCUMENTS  
ISSUED FOR REVIEW

04/22/21

ROOF PLAN

NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE SREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138

DATE  
04/22/21

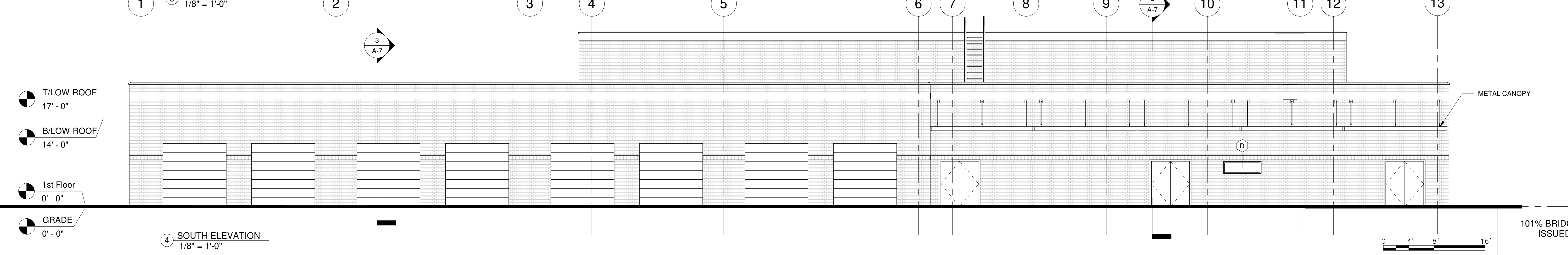
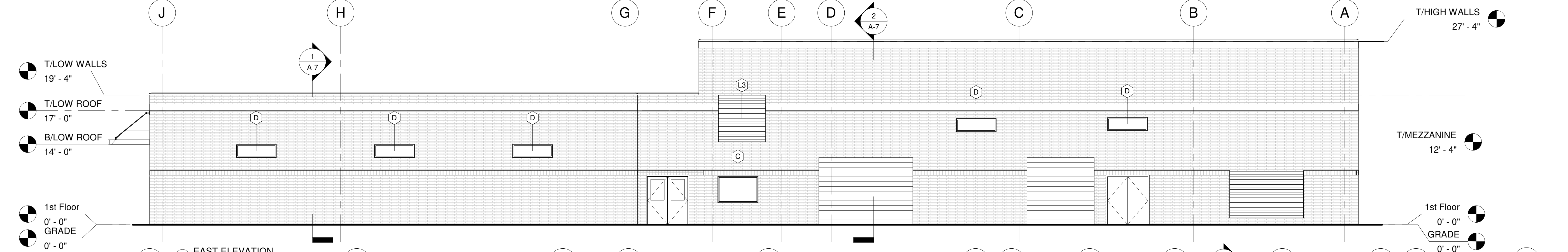
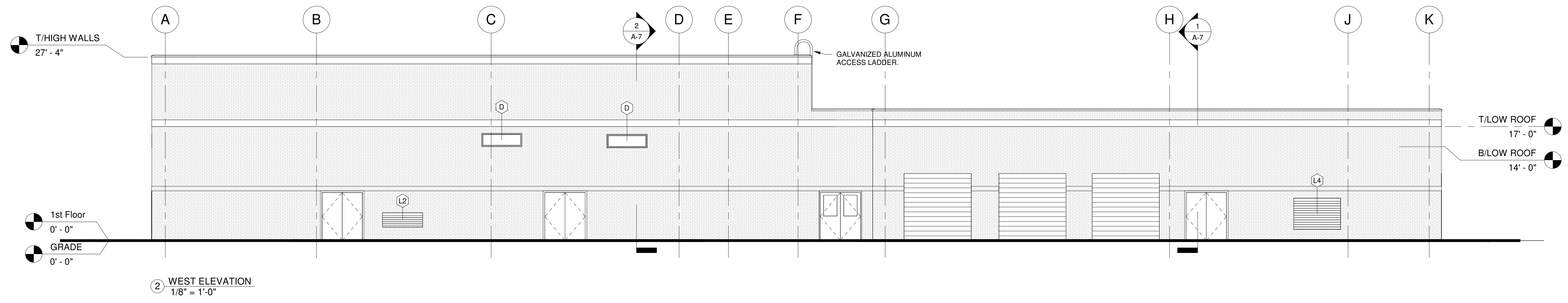
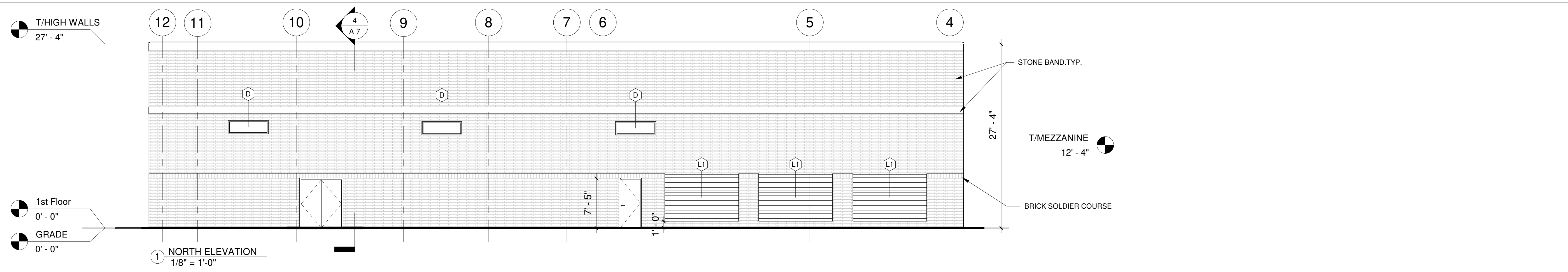
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**A-5**

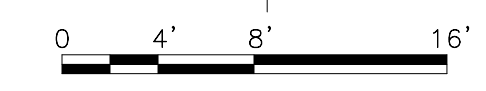
18 OF 51 SHEETS

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NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

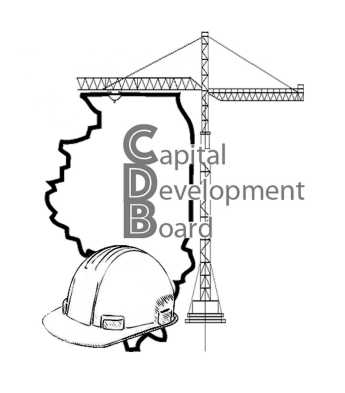
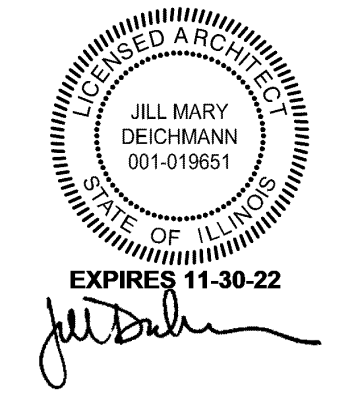


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ISSUED FOR REVIEW

04/22/21

REVISIONS		
NO.	DATE	REMARKS
	04/22/21	

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O.A.	O.A.	O.A.	O.A.



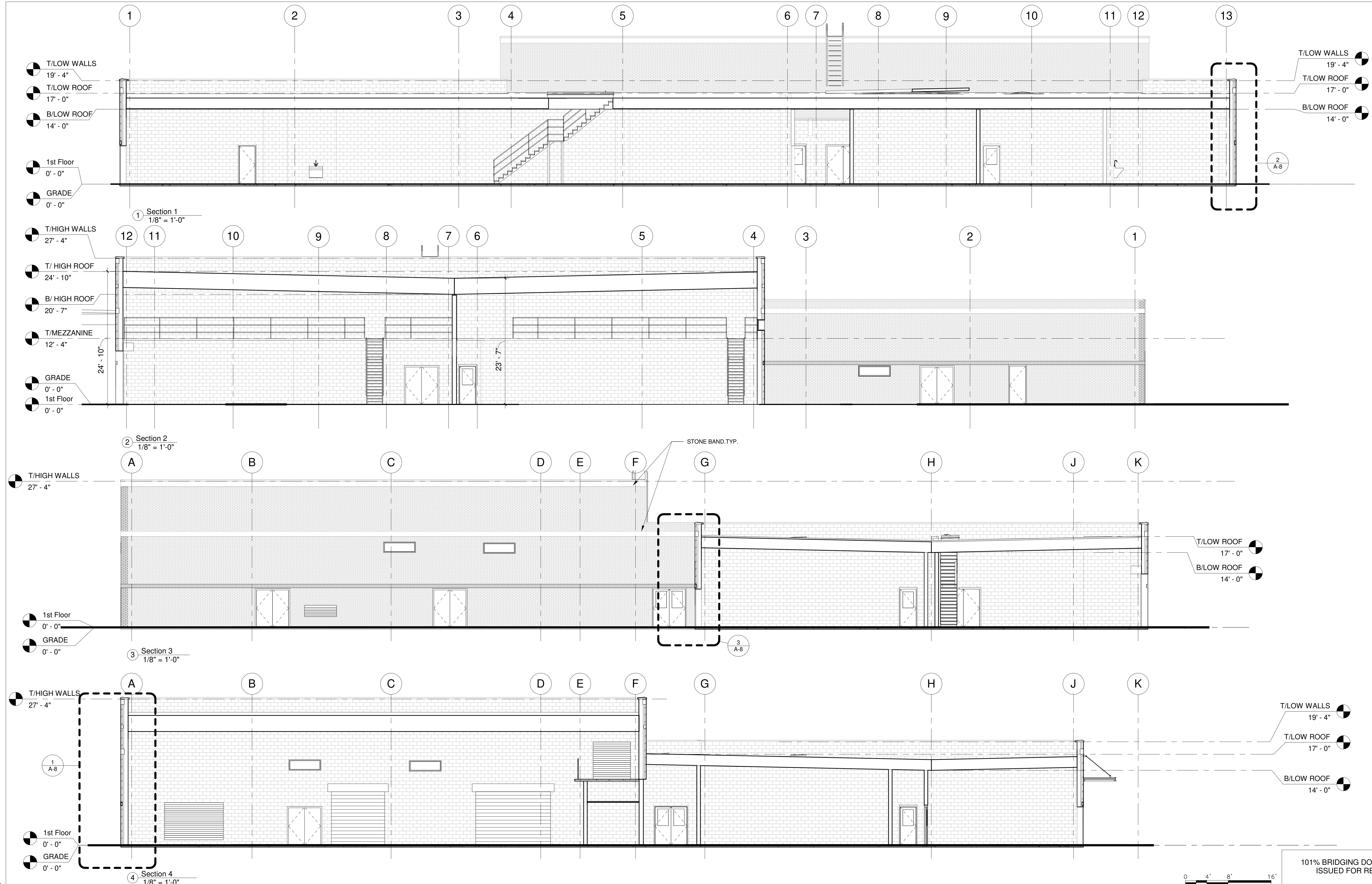
State of Illinois  
**JB PRITZKER, GOVERNOR**  
 Illinois Capital Development Board

BUILDING ELEVATIONS  
 NEW POWER PLANT  
 ELGIN MENTAL HEALTH CENTER  
 750 SOUTH STATE SREET  
 ELGIN, KANE COUNTY, ILLINOIS

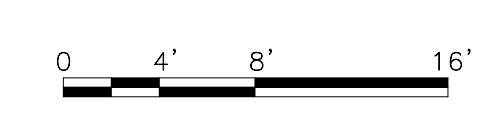
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321-055-138  
 DATE  
04/22/21  
 SHEET NO.  
**A-6**  
 19 OF 51 SHEETS

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NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

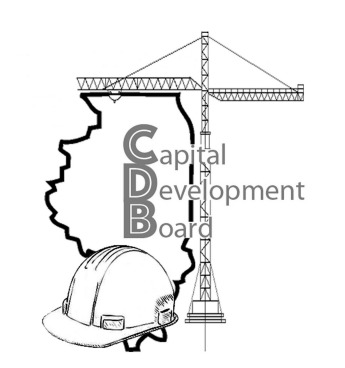
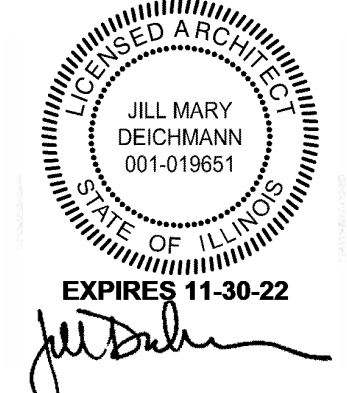


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ISSUED FOR REVIEW

04/22/21

REVISIONS		
NO.	DATE	REMARKS
	04/22/21	

DRAWN		PREPARED	
O.A.	O.A.	O.A.	O.A.
TRACED	APPROVED		
CHECKED	APPROVED		
J.D.	J.D.		



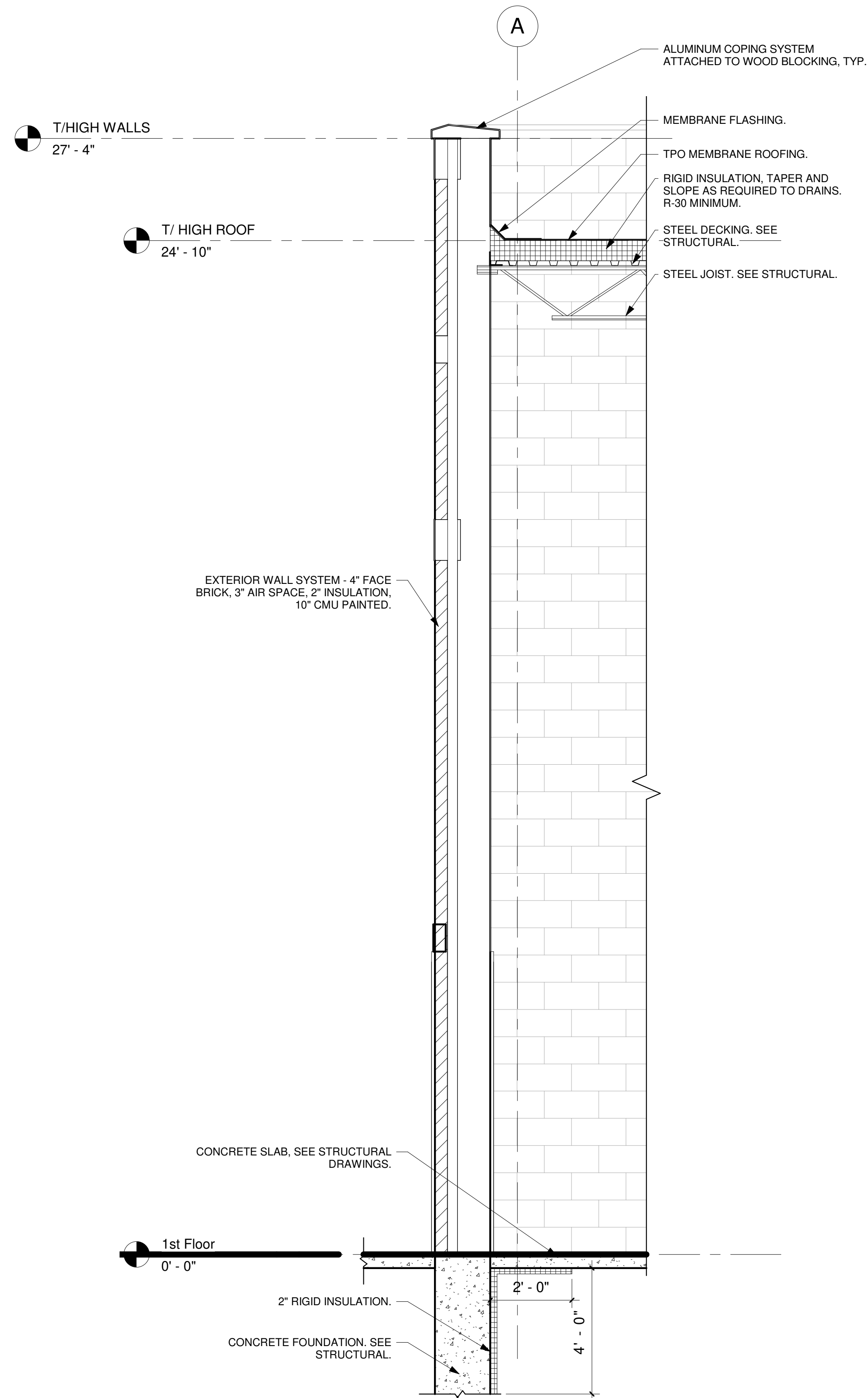
State of Illinois  
**JB PRITZKER, GOVERNOR**  
Illinois Capital Development Board

**BUILDING SECTIONS**  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE SREET  
ELGIN, KANE COUNTY, ILLINOIS

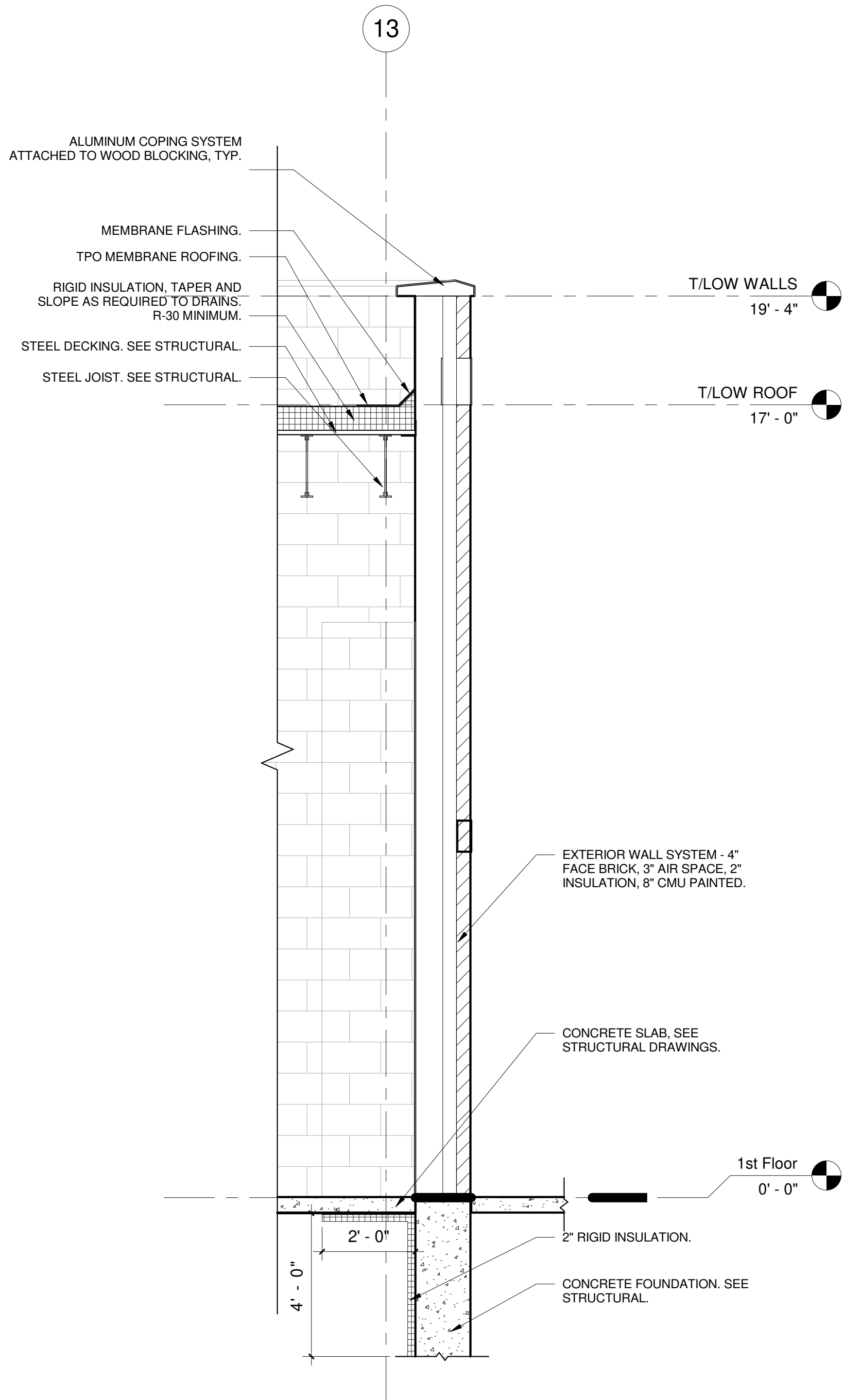
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321-055-138  
DATE  
04/22/21  
SHEET NO.  
**A-7**  
20 OF 51 SHEETS

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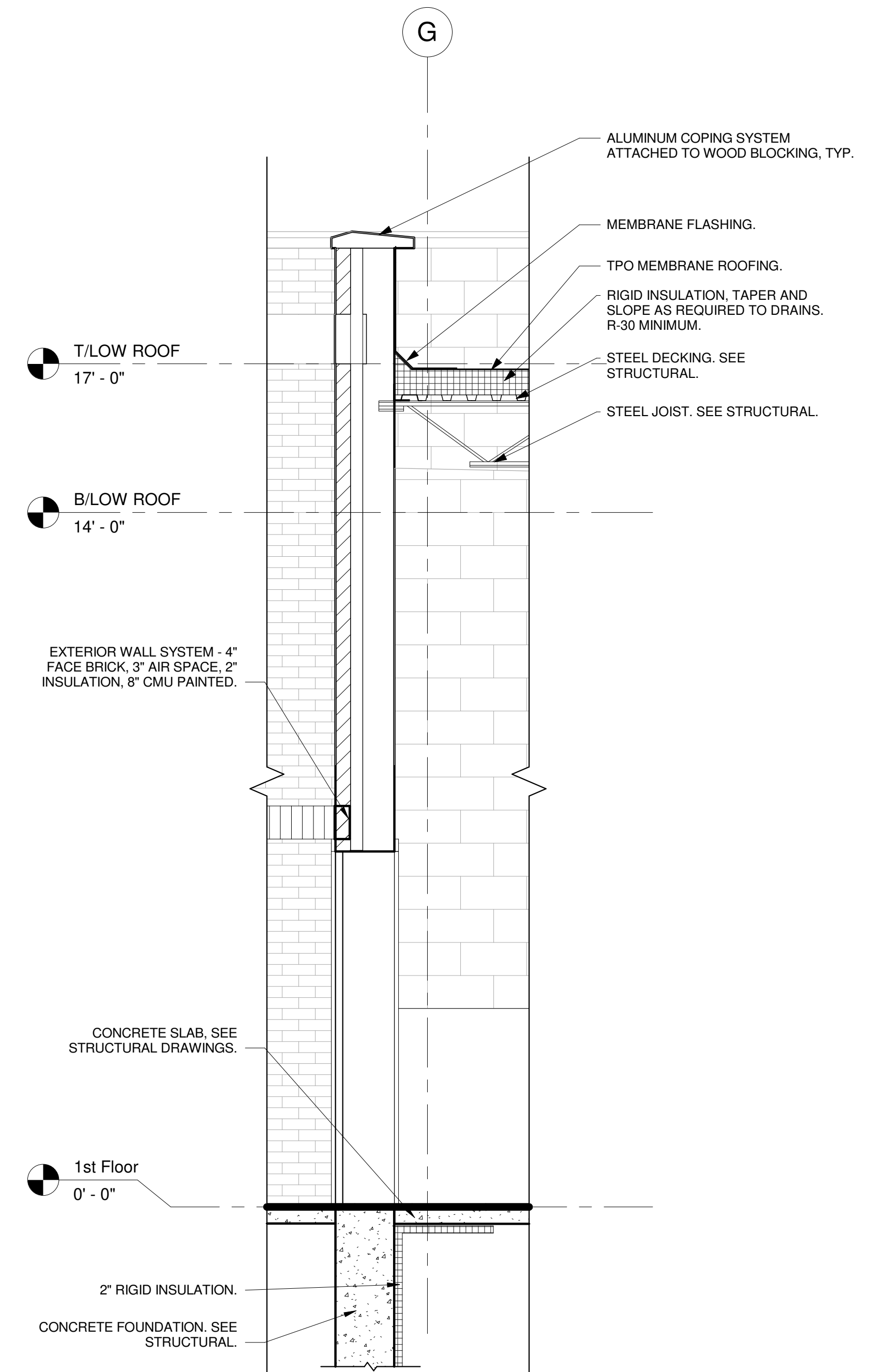




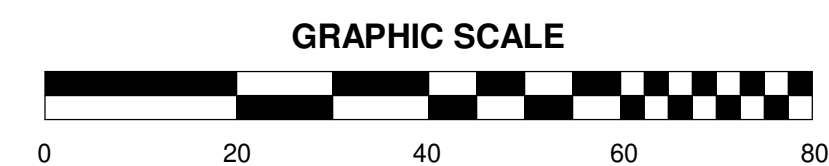
1 WALL SECTION 1  
1/2" = 1'-0"



2 WALL SECTION 2  
1/2" = 1'-0"



3 WALL SECTION 3  
1/2" = 1'-0"

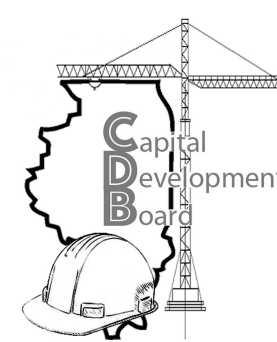
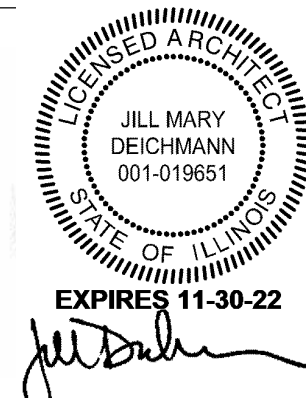


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ISSUED FOR REVIEW  
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REVISIONS		
NO.	DATE	REMARKS
	04/22/21	

DRAWN		PREPARED	
O.A.	O.A.	O.A.	O.A.
		TRACED	APPROVED
		CHECKED	APPROVED
		J.D.	J.D.



State of Illinois  
**JB PRITZKER, GOVERNOR**  
**Illinois Capital Development Board**

WALL SECTIONS  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE SREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
DATE  
04/22/21  
SHEET NO.  
**A-8**  
21 OF 51 SHEETS

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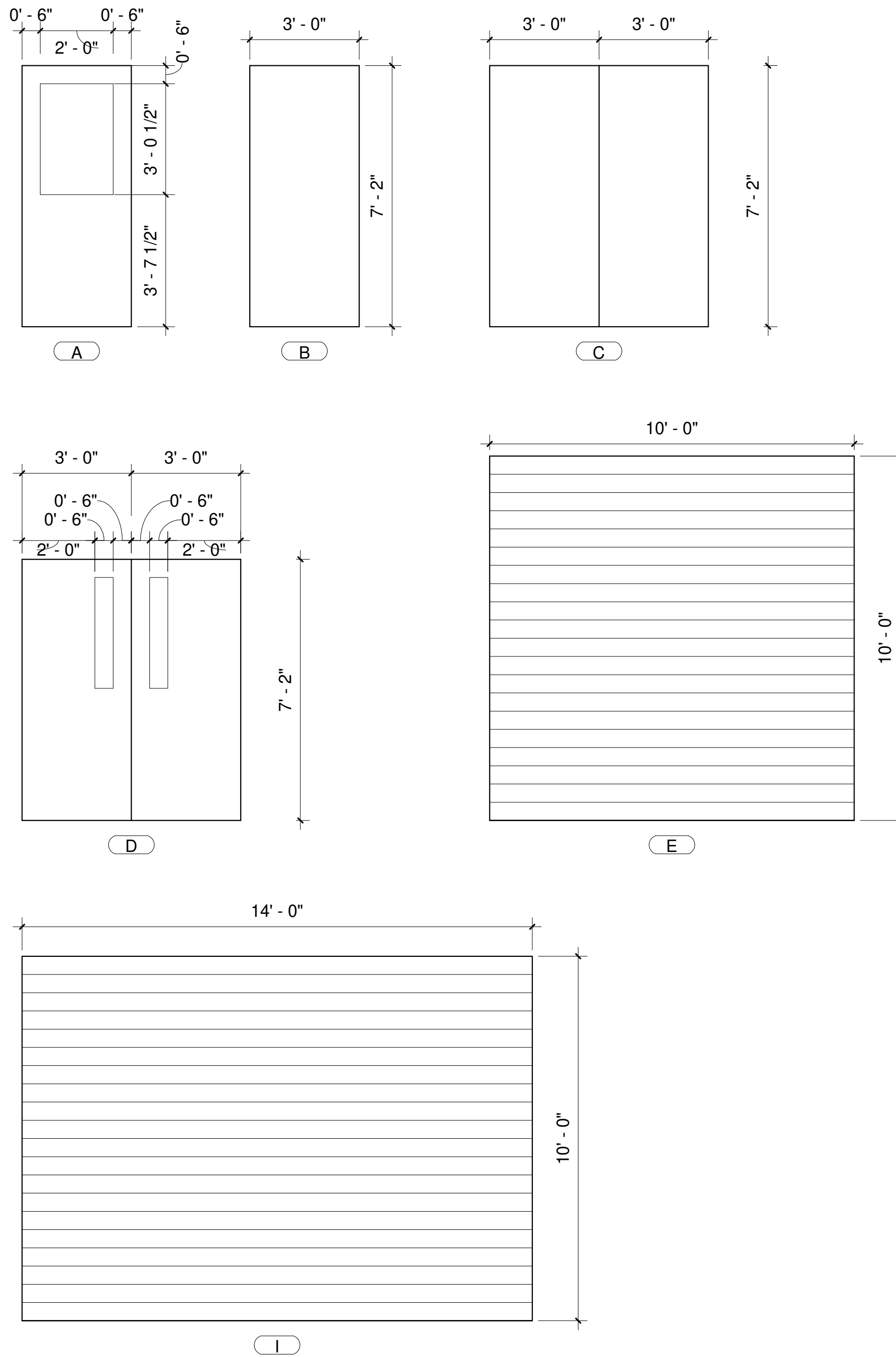
WALL TYPE LEGEND		
WALL TYPE MARK	TYPE	DESCRIPTION
W1	INTERIOR CONCRETE MASONRY UNIT	CONCRETE MASONRY UNITS, HEAVY DUTY WEIGHT CLASSIFICATION. NOMINAL DIMENSIONS OF 8"X10"X16".
W2	INTERIOR CONCRETE MASONRY UNIT	CONCRETE MASONRY UNITS, HEAVY DUTY WEIGHT CLASSIFICATION. NOMINAL DIMENSIONS OF 8"X8"X16".

WINDOW AND LOUVER SCHEDULE				
MARK	OPERATION	WIDTH	HEIGHT	
C	FIXED WINDOW	6' - 0"	4' - 0"	
D	FIXED WINDOW	6' - 0"	2' - 0"	
D	FIXED WINDOW	6' - 0"	2' - 0"	
D	FIXED WINDOW	6' - 0"	2' - 0"	
D	FIXED WINDOW	6' - 0"	2' - 0"	
D	FIXED WINDOW	6' - 0"	2' - 0"	
D	FIXED WINDOW	6' - 0"	2' - 0"	
D	FIXED WINDOW	6' - 0"	2' - 0"	
D	FIXED WINDOW	6' - 0"	2' - 0"	
D	FIXED WINDOW	6' - 0"	2' - 0"	
D	FIXED WINDOW	6' - 0"	2' - 0"	
D	FIXED WINDOW	6' - 0"	2' - 0"	
D	FIXED WINDOW	6' - 0"	2' - 0"	
L1	LOUVER	11' - 0"	7' - 0"	
L1	LOUVER	11' - 0"	7' - 0"	
L1	LOUVER	11' - 0"	7' - 0"	
L2	LOUVER	6' - 0"	2' - 2"	
L3	LOUVER	7' - 0"	7' - 0"	
L4	LOUVER	7' - 0"	4' - 8"	

ROOM FINISH SCHEDULE					
NUMBER	NAME	FLOOR FINISH	WALL FINISH	CEILING FINISH	Comments
100	BOILER (DOUBLE HIGH SPACE)	Concrete	CMU	EXPOSED	
100	BOILER (OPEN TO BELOW)	Concrete	CMU	EXPOSED	
101	GENERATOR	Concrete	CMU	EXPOSED	
102	ELECTRICAL	Concrete	CMU	EXPOSED	
103	OPERATOR'S AREA	Concrete	CMU	EXPOSED	
104	PLAN STORAGE	Concrete	CMU	SUSPENDED ACOUSTIC	
105	OFFICE	Concrete	CMU	SUSPENDED ACOUSTIC	
106	CORRIDOR	Concrete	CMU	EXPOSED	
109	JANITOR	Concrete	CMU	EXPOSED	
110	BREAK ROOM	Concrete	CMU	SUSPENDED ACOUSTIC	
111	ELECTRICAL TRADES	Concrete	CMU	EXPOSED	
112	PAINT TRADES	Concrete	CMU	EXPOSED	
113	CARPENTRY TRADES	Concrete	CMU	EXPOSED	
114	PIPE TRADES	Concrete	CMU	EXPOSED	
115	PLUMBING TRADES	Concrete	CMU	EXPOSED	
116	MACHINE SHOP TRADES	Concrete	CMU	EXPOSED	
117	GROUND/TRANSPORT TRADES	Concrete	CMU	EXPOSED	
118	STORAGE	Concrete	CMU	EXPOSED	
119	FP/PLUMB SERVICE	Concrete	CMU	EXPOSED	
120	VEHICLE BAYS	Concrete	CMU	EXPOSED	
200	TOILET ROOM AND LOCKERS	Concrete	CMU	GYP. BD.	TILE AT SHOWERS
201	TOILET ROOM AND LOCKERS	Concrete	CMU	GYP. BD.	TILE AT SHOWERS
202	ELECTRICAL & MECHANICAL (OPEN TO BELOW)	Concrete	CMU	EXPOSED	
203	LOW VOLTAGE ELECTRICAL MEZZANINE	Concrete	CMU	EXPOSED	
204	MECHANICAL MEZZANINE	Concrete	CMU	EXPOSED	
205	TELECOM	Concrete	CMU	EXPOSED	

- ALL CMU WALL SURFACES TO BE PAINTED.
- ALL GYPSUM BOARD CEILING SURFACES TO BE PAINTED.

DOOR TYPE



DOOR SCHEDULE												
TAG	From Room: Name	FILE RATING	DOOR TYPE	OPERATION	WIDTH	HEIGHT	THICKNESS	DOOR MATERIAL	FRAME MATERIAL	DOOR FINISH	FRAME FINISH	GLAZING
A	PLUMBING TRADES	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	PIPE TRADES	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	PAINT TRADES	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	ELECTRICAL TRADES	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	GROUND/TRANSPORT TRADES	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	STORAGE	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	CORRIDOR	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	CORRIDOR	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	CORRIDOR	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	CORRIDOR	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	OFFICE	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	ELECTRICAL	2	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	BREAK ROOM	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	CORRIDOR	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	GENERATOR	2	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	CORRIDOR	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
A	PLAN STORAGE	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
B	VEHICLE BAYS	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
B	TOILET ROOM AND LOCKERS	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
B	TOILET ROOM AND LOCKERS	1	Single Door	Single Flush	3' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
C	CORRIDOR	1	Double Door	Double Flush	6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
C	CARPENTRY TRADES	1	Double Door	Double Flush	6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
C	BOILER (DOUBLE HIGH SPACE)	2	Double Door	Double Flush	6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
C	VEHICLE BAYS	1	Double Door	Double Flush	6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
C	TELECOM	1	Double Door	Double Flush	6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
E	BOILER (DOUBLE HIGH SPACE)	1	Overhead Door	Overhead Rolling	10' - 0"	10' - 0"	0' - 1 3/4"	INSULATED STEEL	-	-	-	-
E	VEHICLE BAYS	1	Overhead Door	Overhead Rolling	10' - 0"	10' - 0"	0' - 1 3/4"	INSULATED STEEL	-	-	-	-
E	VEHICLE BAYS	1	Overhead Door	Overhead Rolling	10' - 0"	10' - 0"	0' - 1 3/4"	INSULATED STEEL	-	-	-	-
E	VEHICLE BAYS	1	Overhead Door	Overhead Rolling	10' - 0"	10' - 0"	0' - 1 3/4"	INSULATED STEEL	-	-	-	-
E	VEHICLE BAYS	1	Overhead Door	Overhead Rolling	10' - 0"	10' - 0"	0' - 1 3/4"	INSULATED STEEL	-	-	-	-
E	VEHICLE BAYS	1	Overhead Door	Overhead Rolling	10' - 0"	10' - 0"	0' - 1 3/4"	INSULATED STEEL	-	-	-	-
E	VEHICLE BAYS	1	Overhead Door	Overhead Rolling	10' - 0"	10' - 0"	0' - 1 3/4"	INSULATED STEEL	-	-	-	-
E	VEHICLE BAYS	1	Overhead Door	Overhead Rolling	10' - 0"	10' - 0"	0' - 1 3/4"	INSULATED STEEL	-	-	-	-
E	VEHICLE BAYS	1	Overhead Door	Overhead Rolling	10' - 0"	10' - 0"	0' - 1 3/4"	INSULATED STEEL	-	-	-	-
E	VEHICLE BAYS	1	Overhead Door	Overhead Rolling	10' - 0"	10' - 0"	0' - 1 3/4"	INSULATED STEEL	-	-	-	-
E	VEHICLE BAYS	1	Overhead Door	Overhead Rolling	10' - 0"	10' - 0"	0' - 1 3/4"	INSULATED STEEL	-	-	-	-
E	VEHICLE BAYS	1	Overhead Door	Overhead Rolling	10' - 0"	10' - 0"	0' - 1 3/4"	INSULATED STEEL	-	-	-	-
E	VEHICLE BAYS	1	Overhead Door	Overhead Rolling	10' - 0"	10' - 0"	0' - 1 3/4"	INSULATED STEEL	-	-	-	-
G	CORRIDOR	1	Double Door	Double Flush	6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
G	CORRIDOR	1	Double Door	Double Flush	6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	Glass
I	BOILER (DOUBLE HIGH SPACE)	1	Overhead Door		14' - 0"	10' - 0"	0' - 1 3/4"	INSULATED STEEL	-	-	-	-
K	CORRIDOR	1	Double Door		6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
K	BOILER (DOUBLE HIGH SPACE)	2	Double Door		6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
K	MACHINE SHOP TRADES	1	Double Door		6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
K	BOILER (DOUBLE HIGH SPACE)	2	Double Door		6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
K	GROUND/TRANSPORT TRADES	1	Double Door		6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
K	VEHICLE BAYS	1	Double Door		6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
K	GENERATOR	2	Double Door		6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
K	ELECTRICAL	2	Double Door		6' - 0"	7' - 2"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-
L	GENERATOR	2	Single Door	Single Flush	3' - 0"	7' - 5"	0' - 1 3/4"	HM	HM	PAINT	PAINT	-

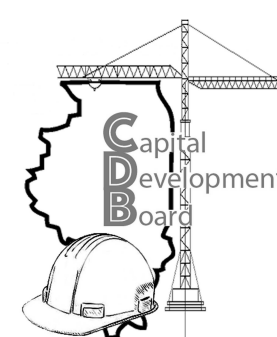
- DOOR SCHEDULE NOTES:  
1. ALL EXTERIOR DOORS TO BE INSULATED

101% BRIDGING DOCUMENTS ISSUED FOR REVIEW

04/22/21

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NO.	DATE	REMARKS	O.A.	O.A.
	04/22/21		TRACED	APPROVED
			CHECKED	APPROVED
			J.D.	J.D.



State of Illinois  
**JB PRITZKER, GOVERNOR**  
Illinois Capital Development Board

SCHEDULES  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE SREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
DATE  
04/22/21  
SHEET NO.  
**A-9**  
22 OF 51 SHEETS



**DESIGN CRITERIA**

- INTERNATIONAL BUILDING CODE 2018 (IBC 2018)
- ASCE 7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES
- ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 2014 EDITION (ACI 318-14)
- AISC STEEL CONSTRUCTION MANUAL, 15TH EDITION
- TMS BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, 2016 EDITION (TMS 402-2016)

**DESIGN LOADS**

- LIVE LOADS
    - MINIMUM ROOF LIVE LOAD: 20 PSF
    - OFFICES: 50 PSF OR 2,000 LB CONCENTRATED LOAD
    - CORRIDORS:
      - FIRST FLOOR: 100 PSF OR 2,000 LB CONCENTRATED LOAD
      - ABOVE FIRST FLOOR: 80 PSF OR 2,000 LB CONCENTRATED LOAD
    - BREAK ROOMS: 100 PSF OR 2,000 LB CONCENTRATED LOAD
    - TOILET ROOMS & LOCKERS: 100 PSF OR 2,000 LB CONCENTRATED LOAD
    - GARAGE & MECHANICAL: 250 PSF, 3,000 LB CONCENTRATED LOAD, OR VEHICLE LOAD
  - STORAGE:
    - HEAVY: 250 PSF
    - LIGHT: 125 PSF
    - LOAD FOR STORAGE OF SPECIFIC ITEMS: PER VENDOR SUPPLIED DATA
  - STAIRS: 100 PSF OR 300 LB CONCENTRATED LOAD
  - HANDRAILS AND GUARDS: 50 PLF OR 200 LB CONCENTRATED LOAD IN ANY DIRECTION AT ANY POINT ALONG THE TOP
- RISK CATEGORY PER CDB DESIGN AND CONSTRUCTION MANUAL: IV
- WIND LOADS PER ASCE 7-16
    - BASIC WIND SPEED (V): 119 MPH
    - EXPOSURE CATEGORY: C
    - ICE IMPORTANCE FACTOR (I<sub>w</sub>): 1.00
  - SEISMIC LOADS PER ASCE 7-16
    - SITE CLASS: D
    - SEISMIC DESIGN CATEGORY: C
    - MAPPED SPECTRAL RESPONSE ACCELERATIONS:
      - SHORT PERIOD, S<sub>0.2</sub>: 0.127
      - 1-SEC PERIOD, S<sub>1</sub>: 0.063
    - DESIGN SPECTRAL RESPONSE ACCELERATIONS:
      - SHORT PERIOD, S<sub>0.2s</sub>: 0.135
      - 1-SEC PERIOD, S<sub>1s</sub>: 0.101
    - SEISMIC FORCE RESISTING SYSTEM: BUILDING FRAME SYSTEM WITH ORDINARY REINFORCED MASONRY SHEAR WALLS
    - IMPORTANCE FACTOR (I<sub>s</sub>): 1.50
    - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
  - SNOW LOADS PER ASCE 7-16
    - GROUND SNOW LOAD (p<sub>s</sub>, PLUS DRIFT AS REQ'D): 30 PSF (PER CDB DESIGN AND CONSTRUCTION MANUAL)
    - MINIMUM ROOF SNOW LOAD (p<sub>n</sub>): 24 PSF
    - EXPOSURE FACTOR (C<sub>e</sub>): 1.0
    - THERMAL FACTOR (C<sub>t</sub>):
      - ABOVE UNHEATED AND OPEN AIR SPACES: 1.2
      - ABOVE AREAS KEPT JUST ABOVE FREEZING: 1.1
      - OTHER THAN THOSE INDICATED ABOVE: 1.0
    - IMPORTANCE FACTOR (I<sub>s</sub>): 1.20
  - DEAD LOAD PER SELF WEIGHT OF MATERIALS
  - EQUIPMENT AND PIPING LOADS APPLIED LOCALLY AND NOT SHOWN HERE

**GENERAL CONSTRUCTION**

- THE CONTRACTOR SHALL VERIFY JOBSITE CONDITIONS AND DIMENSIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
- DIMENSIONS OF EXISTING CONSTRUCTION OR CONSTRUCTION IN PROGRESS SHALL BE VERIFIED AND COORDINATED PRIOR TO FABRICATION OF STRUCTURAL COMPONENTS.
- VERIFY AND COORDINATE WITH ALL CONTRACTORS, THE LOCATION OF ALL ARCHITECTURAL AND MECHANICAL APPURTENANCES AND OPENINGS.
- NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- NO CHANGE IN SIZE OR DIMENSION OF ANY STRUCTURAL MEMBER SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- NO PIPES OR CONDUIT SHALL BE EMBEDDED IN SLABS OR WALLS UNLESS APPROVED BY AND COORDINATED WITH THE STRUCTURAL ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND JOB SITE SAFETY.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, AS A RESULT OF THE CONSTRUCTION MEANS, METHODS, AND/OR SEQUENCES CHOSEN BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY DURING CONSTRUCTION.
- DO NOT SCALE DRAWINGS, USE DIMENSIONS AS SHOWN.

**CONCRETE**

- THE MINIMUM CONCRETE COMPRESSIVE STRENGTH (f<sub>c</sub>) AT 28 DAYS SHALL BE 4,000 PSI.
- THE MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE VERIFIED BY FIELD QUALITY CONTROL ACCORDING TO THE SPECIFICATIONS. SEE CAST-IN-PLACE CONCRETE SPECIFICATION.
- THE MINIMUM YIELD STRENGTH (f<sub>y</sub>) OF DEFORMED BAR REINFORCEMENT SHALL BE 60,000 PSI.
- THE MINIMUM YIELD STRENGTH (f<sub>y</sub>) OF WELDED WIRE FABRIC SHALL BE 65,000 PSI.
- ALL CONCRETE SHALL BE NORMAL WEIGHT UNLESS NOTED OTHERWISE.
- WHERE REINFORCEMENT HOOKS ARE REQUIRED, PROVIDE STANDARD HOOKS CONFORMING TO SECTION 25.3 OF ACI 318-14.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE PROTECTION OF CONCRETE REINFORCEMENT SHALL ADHERE TO ACI 318-14.
  - CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND: 3"
  - CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
    - #5 BARS OR SMALLER: 1-1/2"
    - #6 THROUGH #18: 2"
  - CONCRETE NOT EXPOSED TO EARTH OR IN CONTACT WITH GROUND:
    - BEAMS, COLUMNS, PEDESTALS, & TENSION TIES: 1-1/2"
    - SLABS, JOISTS, AND WALLS, #11 BARS OR SMALLER: 3/4"
    - SLABS, JOISTS, AND WALLS, #14 & #18 BARS: 1-1/2"
- UNLESS OTHERWISE SHOWN OR NOTED, SPlicing OF CONCRETE REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-14. DEFORMED BARS AND WIRE IN TENSION SHALL USE A CLASS B SPLICE. MINIMUM LAP SPLICE LENGTHS SHALL BE IN ACCORDANCE WITH ACI 318-14.
- ALL HORIZONTAL BARS IN WALLS, FOOTINGS, AND GRADE BEAMS SHALL BE BENT OR SPLICED AT CORNERS AND INTERSECTIONS IN SUCH A WAY THAT CONTINUITY IS PROVIDED THROUGH THE JOINT.
- CONSTRUCTION JOINT LOCATION, IF NOT LOCATED ON THE DRAWINGS, IS SUBJECT TO STRUCTURAL ENGINEERS APPROVAL PRIOR TO JOINT INSTALLATION.
- CONTRACTOR TO SUBMIT CONCRETE REINFORCEMENT SHOP DETAIL DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO START OF CONSTRUCTION.

**FOUNDATIONS**

- FOUNDATION RECOMMENDATIONS ARE BASED ON THE PROJECT GEOTECHNICAL REPORT DATED SEPTEMBER 18, 2020 BY GEO SERVICES, INC.
- VERIFY ALL UNDERGROUND UTILITIES BEFORE PROCEEDING WITH WORK.
- FROST DEPTH IS 4'-0" BELOW GRADE.
- FOUNDATION SHALL BEAR ON NATURAL SOILS OR COMPACTED STRUCTURAL FILL HAVING A BEARING PRESSURE OF 4,000 PSF. EXISTING FILL AND SOILS WITH LESS THAN ADEQUATE BEARING STRENGTH SHOULD BE UNDERCUT TO REACH SUITABLE BEARING SOILS, AND THE UNDERCUT AREA FILLED WITH LEAN CONCRETE OR A SUITABLE STRUCTURAL FILL MATERIAL.
- NO HOLES, TRENCHES, OR DISTURBANCES OF THE SOIL SHALL BE ALLOWED WITHIN THE VOLUME DESCRIBED BY 45 DEGREE LINES SLOPING FROM THE BOTTOM EDGE OF THE FOOTING. IF SUCH ARE REQUIRED, FOOTINGS MUST BE LOWERED.
- CONTINUOUS STRIP FOOTINGS SHOULD HAVE A MINIMUM WIDTH OF 18". ISOLATED COLUMN FOOTINGS SHOULD HAVE A MINIMUM WIDTH OF 30".
- STRUCTURAL FILL SHOULD BE EXTENDED AT LEAST 6" BEYOND THE PROPOSED FOOTING LIMITS AND THEN 1'-0" HORIZONTALLY FOR EACH 1'-0" OF FILL PLACED BELOW THE BASE OF THE FOOTING.
- STRUCTURAL FILL SHOULD BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MAXIMUM DRY DENSITY (ASTM D-1557 MODIFIED PROCTOR). IF CA-1 OR CA-7 CRUSHED STONE MATERIALS ARE USED, THEY CAN BE MECHANICALLY COMPACTED. IF OPEN-GRADED STONE IS USED, A NON-WOVEN GEOTECHNICAL FABRIC SHOULD BE USED BETWEEN THE STRUCTURAL FILL AND THE BOTTOM OF UNDERCUT.
- STRUCTURAL FILL SHOULD CONSIST OF INORGANIC MATERIAL FREE OF DEBRIS AND SHOULD BE PLACED IN MAXIMUM 9" LOOSE LIFTS AND COMPACTED TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY. IF CA-1 OR CA-7 CRUSHED STONE MATERIALS ARE USED, THEY CAN BE COMPACTED BY TAMPING WITH A BACKHOE BUCKET. IF OPEN-GRADED STONE IS USED, A NON-WOVEN GEOTECHNICAL FABRIC SHOULD BE USED BETWEEN THE STRUCTURAL FILL AND THE BOTTOM OF THE UNDERCUT.
- THE MOISTURE CONTENT OF THE STRUCTURAL FILL SHOULD BE CONTROLLED WITHIN +2% OF THE OPTIMUM MOISTURE CONTENT.

**SLAB-ON-GRADE**

- SLAB-ON-GRADE RECOMMENDATIONS ARE BASED ON THE PROJECT GEOTECHNICAL REPORT DATED SEPTEMBER 18, 2020 BY GEO SERVICES, INC.
- BELOW THE SLAB-ON-GRADE, THE EXISTING FILL SHOULD BE STRIPPED AND ANY ORGANIC, UNSUITABLE, OR DELETERIOUS MATERIALS SHOULD BE REMOVED. THE SUBGRADE SHOULD ALSO BE THOROUGHLY PROOFROLLED PER THE GEOTECHNICAL REPORT.
- ALL STRUCTURAL FILL SHOULD CONSIST OF INORGANIC MATERIAL FREE OF TOPSOIL AND DEBRIS. FILL MATERIAL THAT MAY BE EXPOSED TO FREEZING TEMPERATURES SHOULD BE NON-FROST SUSCEPTIBLE.
- SUBGRADES AND SUBBASES SHALL BE GRADED WITHIN THE TOLERANCES SPECIFIED IN THE EARTHWORK OR EARTH MOVING SPECIFICATION.
- NEW STRUCTURAL FILL SHOULD BE PLACED IN MAXIMUM 9" LOOSE LIFTS AND COMPACTED TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY (ASTM D-1557 MODIFIED PROCTOR). THE SUBGRADE SHOULD BE COMPACTED PRIOR TO FOOTING AND FOUNDATION INSTALLATION IF THE COMPACTION OF THE SUBGRADE WILL IMPOSE EXCESSIVE LATERAL PRESSURE ON THE FOUNDATION ELEMENTS.
- BENEATH SLAB ON GRADE AREAS, A MINIMUM OF 4" OF GRANULAR BASE COURSE MATERIAL SHOULD BE USED.
- A MINIMUM 10-mil THICK POLYETHYLENE VAPOR RETARDER SHALL BE PLACED BETWEEN THE BASE COURSE AND THE SLAB ON GRADE. THE JOINTS OF THE VAPOR BARRIER SHALL BE LAPPED A MINIMUM OF 6". IF THE TOP SURFACE OF THE BASE COURSE IS RELATIVELY ROUGH AND PUNCTURING OF THE VAPOR RETARDER IS LIKELY, THEN IT SHALL BE TOPPED WITH A 1/2" LAYER OF ASTM D448 NO. 10 FINE GRADED MATERIAL.
- FLOOR SLABS SHOULD BE ISOLATED FROM FOUNDATIONS TO PERMIT RELATIVE DISPLACEMENT WITHOUT CRACKING. SLABS SHALL BE CAST ALLOWING A SUFFICIENT NUMBER OF JOINTS TO ADEQUATELY CONTROL SHRINKAGE CRACKING. SAWCUTTING SHALL BE DONE AS SOON AS SAWCUT WILL NOT RAVEL CONCRETE OR WITHIN 24 HOURS MAXIMUM OF INITIAL POURING OPERATION (CUTTING JOINTS ON SAME DAY AS POUR IS PREFERRED). MAXIMUM SIZE OF PANELS SHALL BE 15 FEET BY 15 FEET. GENERALLY, JOINTS SHALL OCCUR ON COLUMN CENTERLINES.

**STRUCTURAL STEEL & CONNECTIONS**

- ALL DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO ANSII/AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AS WELL AS THE AISC 303-16 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- STRUCTURAL STEEL SHAPES SHOWN ON THE DRAWINGS SHALL ADHERE TO THE FOLLOWING SPECIFICATIONS:
  - W, WT, HP SHAPES: ASTM A992 OR ASTM A572, GR. 50 (F<sub>y</sub> = 50 KSI)
  - M, S, C, MC, L SHAPES, PLATES, & BARS: ASTM A36 (F<sub>y</sub> = 36 KSI)
  - RECTANGULAR HSS: ASTM A500, GR. C (F<sub>y</sub> = 50 KSI)
  - ROUND HSS: ASTM A500, GR. C (F<sub>y</sub> = 46 KSI)
  - STRUCTURAL PIPE: ASTM A53, GR. B (F<sub>y</sub> = 35 KSI)
  - BOLTS: ASTM A325, 3/4" DIA. OR ASTM A490, 1-1/4" DIA.
  - THREADED RODS: ASTM A36 (F<sub>y</sub> = 36 KSI)
  - ANCHOR RODS: ASTM F1554, GR. 55 (F<sub>y</sub> = 55 KSI)
- ALL WELDING SHALL COMPLY WITH AWS D1.1 USING E70XX ELECTRODES. ALL WELDING TO BE DONE BY AWS PREQUALIFIED WELDERS, CERTIFIED FOR WELDS MADE.
- ALL FILLET WELDS TO BE MIN. 3/16" FILLET WELDS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ALL GUSSET PLATES SHALL BE 3/8" MINIMUM THICKNESS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER (A325-N) OR 1-1/4" DIAMETER (A490-N) HIGH STRENGTH BOLTS, BEARING TYPE, WITH THREADS EXCLUDED FROM THE SHEAR PLANE.
- SHOP CONNECTIONS MAY BE WELDED OR HIGH STRENGTH BOLTED AT THE FABRICATORS OPTION, SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER.
- GROUT UNDER BASE PLATES IN ACCORDANCE WITH AISC 303-16.
- MILL ALL COLUMNS AT BASE PLATES.
- ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER, INCLUDING MASONRY SHELF ANGLES, SHALL BE HOT-DIP GALVANIZED ACCORDING TO ASTM A123 UNLESS NOTED OTHERWISE.
- ALL STRUCTURAL STEEL NOT PERMANENTLY EXPOSED TO THE WEATHER SHALL BE SHOP PAINTED WITH RED IRON OXIDE ALKYD PRIMER OR EQUAL.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISCELLANEOUS STEEL.

**STEEL JOISTS**

- STEEL JOIST FABRICATION AND ERECTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE. JOISTS SHALL BE MANUFACTURED WITH HOT-ROLLED TOP AND BOTTOM CHORD MEMBERS.
- WHERE BEAMS SUPPORT JOISTS FROM ONLY ONE SIDE, JOIST SEAT SHALL EXTEND 1" BEYOND BEAM CENTERLINE.
- WELD ALL JOISTS TO SUPPORTING STRUCTURAL STEEL MEMBERS ACCORDING TO SJI AS A MINIMUM.
- ALL WELDING SHALL COMPLY WITH AWS D1.1 USING E70XX ELECTRODES. ALL WELDING TO BE DONE BY AWS PREQUALIFIED WELDERS, CERTIFIED FOR WELDS MADE.
- ALL JOISTS SHALL HAVE A STANDARD MINIMUM CAMBER IN ACCORDANCE WITH SJI STANDARD SPECIFICATIONS.
- JOIST SUPPLIER SHALL PROVIDE ALL ADDITIONAL BRIDGING (FOR NET UPLIFT) AND BRACING AS REQUIRED BY SJI.
- NO LOAD SHALL BE HUNG FROM THE JOIST BRIDGING.
- TOP AND BOTTOM CHORDS OF JOISTS SHALL BE CONTINUOUS WITHOUT ANY SPLICES OF MATERIALS.
- A FIELD APPLIED WEB STIFFENER MUST BE INSTALLED IF CONCENTRATED LOADS DO NOT FALL AT PANEL POINTS.
- JOY LOADS SUPPORTED FROM THE JOIST BOTTOM CHORD MUST BE ATTACHED AT THE BOTTOM CHORD PANEL POINT.
- STEEL JOISTS SHALL BE PAINTED WITH MANUFACTURERS STANDARD RUST INHIBITIVE PAINT MEETING FEDERAL SPECIFICATION TT-P-636 (RED OXIDE) PAINT. DRY FILM THICKNESS TO BE 2.0-mils.

**STEEL ROOF DECK**

- STEEL DECK FABRICATION AND ERECTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STEEL DECK INSTITUTE.
- STEEL ROOF DECK SHALL BE 1-1/2" 18-GAUGE GALVANIZED TYPE "B" STEEL ROOF DECK UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ONLY ACOUSTIC CEILING GRID HANGERS MAY BE CONNECTED TO ROOF DECK. ALL OTHER HANGERS MUST BE SUPPORTED BY STEEL FRAMING OR SUPPLEMENTAL UNISTRUT-TYPE FRAMING (BY CONTRACTOR).
- IF ANY ROOF PENETRATIONS ARE REQUIRED OTHER THAN THOSE CURRENTLY SHOWN ON THE DESIGN DRAWINGS, CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER TO VERIFY IF ANY ADDITIONAL FRAMING SHALL BE REQUIRED AROUND ROOF OPENING TO SUPPORT ROOF DECKING AND CONCRETE.

**COMPOSITE STEEL DECK**

- STEEL DECK FABRICATION AND ERECTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STEEL DECK INSTITUTE.
- COMPOSITE STEEL DECK SHALL BE 1-1/2" 20-GAUGE STEEL DECK WITH 2-1/2" THICK NORMAL WEIGHT CONCRETE TOPPING (4" TOTAL THICKNESS) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- IF ANY PENETRATIONS ARE REQUIRED OTHER THAN THOSE CURRENTLY SHOWN ON THE DESIGN DRAWINGS, CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER TO VERIFY IF ANY ADDITIONAL FRAMING SHALL BE REQUIRED AROUND ROOF OPENING TO SUPPORT ROOF DECKING AND CONCRETE.

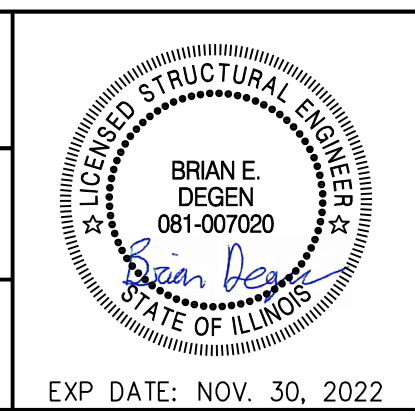
**CONCRETE MASONRY**

- PRODUCTION AND CONSTRUCTION OF CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH TMS 402-2016.
- THE SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (f<sub>m</sub>) SHALL BE 2,000 PSI.
- ALL CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, NORMAL WEIGHT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
- MORTAR FOR MASONRY WALLS SHALL CONFORM TO ASTM C270 TYPE S WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI.
- GROUT FOR MASONRY SHALL CONFORM TO ASTM C476 AND WILL HAVE A COMPRESSIVE STRENGTH OF 2,000 PSI.
- ALL CMU WALLS SHALL BE CONSTRUCTED IN A RUNNING BOND PATTERN.
- MASONRY CELLS CONTAINING REINFORCEMENT SHALL BE FILLED WITH GROUT, NOT MORTAR.
- WHERE NOT SHOWN OTHERWISE, MINIMUM SOLID GROUTED MASONRY BELOW BEAM REACTIONS SHALL BE 16" DEEP BY 32" LONG.
- WHERE NOT SHOWN OTHERWISE, MINIMUM SOLID GROUTED MASONRY BELOW LINTEL REACTIONS SHALL BE 16" DEEP BY 16" LONG.
- WHERE REINFORCEMENT HOOKS ARE REQUIRED, PROVIDE STANDARD HOOKS CONFORMING TO SECTION 6.1.8 OF TMS 402-2016.
- REINFORCEMENT EMBEDDED IN GROUT SHALL HAVE A THICKNESS OF GROUT BETWEEN THE REINFORCEMENT AND MASONRY UNITS NOT LESS THAN 0.25 INCHES FOR FINE GROUT OR 0.50 INCHES FOR COARSE GROUT.
- UNLESS NOTED OTHERWISE OR SHOWN ON THE DRAWINGS, THE PROTECTION OF MASONRY REINFORCEMENT SHALL ADHERE TO SECTION 6.1.4 OF TMS 402-2016.
  - MASONRY FACE EXPOSED TO EARTH OR WEATHER:
    - #5 BARS OR SMALLER: 1-1/2"
    - #6 BARS OR LARGER: 2"
    - JOINT REINFORCEMENT: 5/8"
  - MASONRY NOT EXPOSED TO EARTH OR WEATHER:
    - REINFORCING BARS: 1-1/2"
    - JOINT REINFORCEMENT: 1/2"
- BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS, INCLUDING THROUGH VERTICAL CONTROL JOINTS.
- PROVIDE THE NECESSARY ANCHORS, TIES, AND ACCESSORIES THAT CONFORM TO THE FOLLOWING SPECIFICATIONS:
  - PLATE AND BENT BAR ANCHORS: ASTM A36
  - WIRE MESH TIES: ASTM A185
  - WIRE TIES AND ANCHORS: ASTM A82
  - ANCHOR BOLTS: ASTM A307, GR. A
- MINIMUM LAP SPLICE LENGTHS SHALL BE IN ACCORDANCE WITH TMS 402-2016.

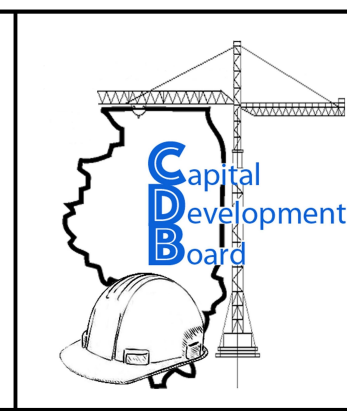
NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

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 SC (P) # 23390.01.00 (PW-CDB)

REVISIONS			DRAWN	PREPARED
NO.	DATE	REMARKS	DMM	DMM
			TRACED	APPROVED
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			CHECKED	APPROVED
			---	---



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State of Illinois  
**JB PRITZKER, GOVERNOR**  
 Illinois Capital Development Board

**STRUCTURAL GENERAL NOTES**

NEW POWER PLANT  
 ELGIN MENTAL HEALTH CENTER  
 750 SOUTH STATE STREET  
 ELGIN, KANE COUNTY, ILLINOIS

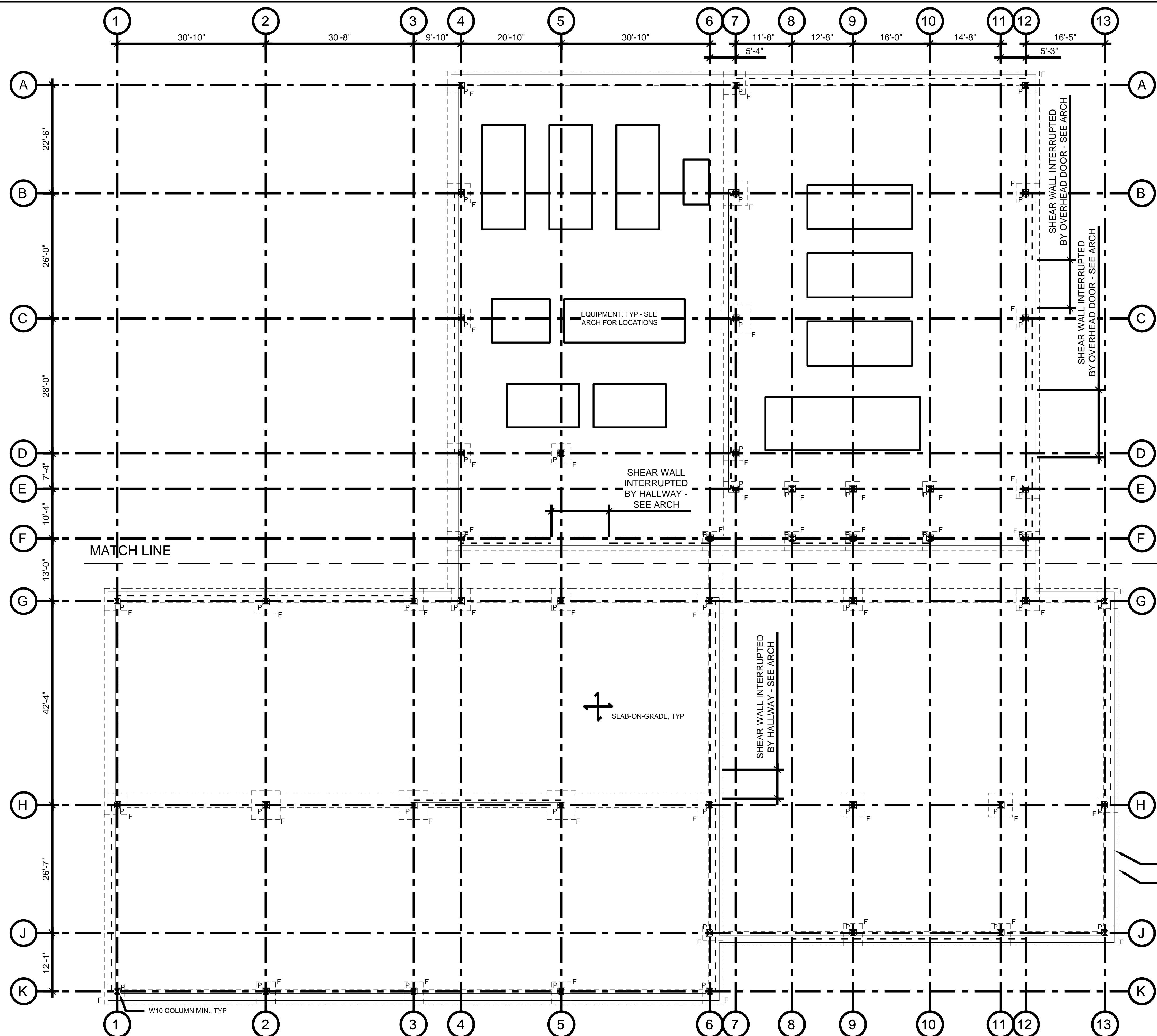
101% BRIDGING DOCUMENTS  
 ISSUED FOR REVIEW  
 4/22/2021

PROJECT NO. 321-055-138
DATE 4/22/2021
SHEET NO. <b>S-1</b> OF ( ) SHEETS



**SHEET NOTES**

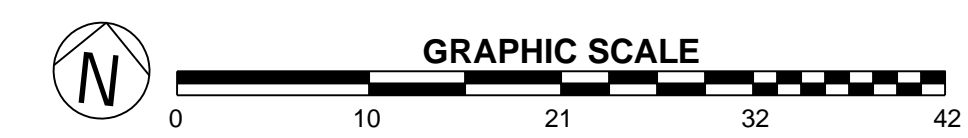
- FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1.
- FOR PARTIAL FOUNDATION PLANS, SEE DRAWINGS S-2.1 AND S-2.2.
- COORDINATE THIS DRAWING WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- T/SLAB EL +0'-0" UNLESS NOTED OTHERWISE ON PLAN.
- B/FOOTING EL -4'-0" UNLESS NOTED OTHERWISE ON PLAN.
- FOOTINGS, PIERS, AND SLABS FOR REFERENCE ONLY AND TO BE DETAILED IN DESIGN DEVELOPMENT PHASE.
- F INDICATES SPREAD FOOTING.
- P INDICATES PIER.
- INDICATES MASONRY SHEAR WALL LOCATION. 8" MIN. MASONRY AT SINGLE STORY WALLS, 10" MIN. MASONRY AT TWO STORY WALLS.
- PROVIDE SLAB-ON-GRADE WITH THE FOLLOWING THICKNESSES (SEE ARCH DRAWINGS FOR ROOM DESIGNATIONS):
  - ADMINISTRATIVE AREAS: 6"
  - GARAGE & MECHANICAL AREAS: 8"
  - EQUIPMENT PADS: 14"
- EQUIPMENT PAD REQUIRED AT FUEL STORAGE TANKS OUTSIDE OF BUILDING. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND CIVIL DRAWINGS FOR LOCATION.



MATCH LINE

MATCH LINE

FOUNDATION WALL, TYP  
STRIP FOOTING, TYP



101% BRIDGING DOCUMENTS  
ISSUED FOR REVIEW  
4/22/2021

1 OVERALL FOUNDATION PLAN  
3/32" = 1'-0"

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

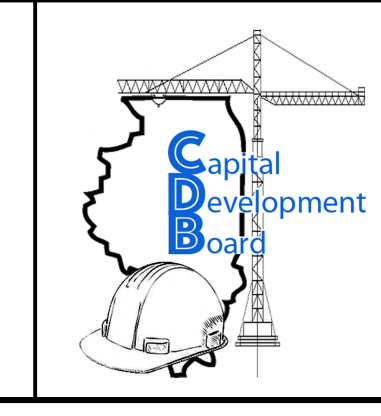
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REVISIONS		
NO.	DATE	REMARKS

DRAWN	PREPARED
DMM	DMM
TRACED	APPROVED
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CHECKED	APPROVED
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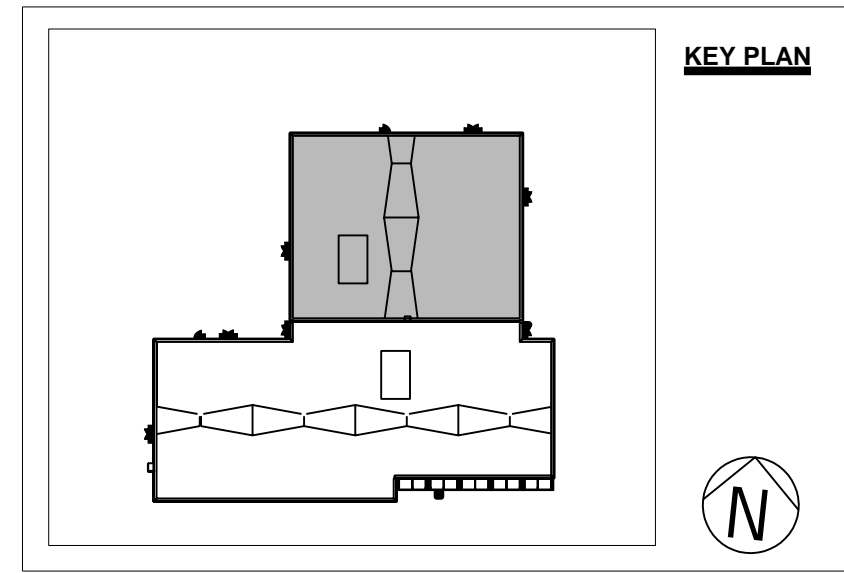


State of Illinois  
JB PRITZKER, GOVERNOR  
Illinois Capital Development Board

**OVERALL FOUNDATION PLAN**  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

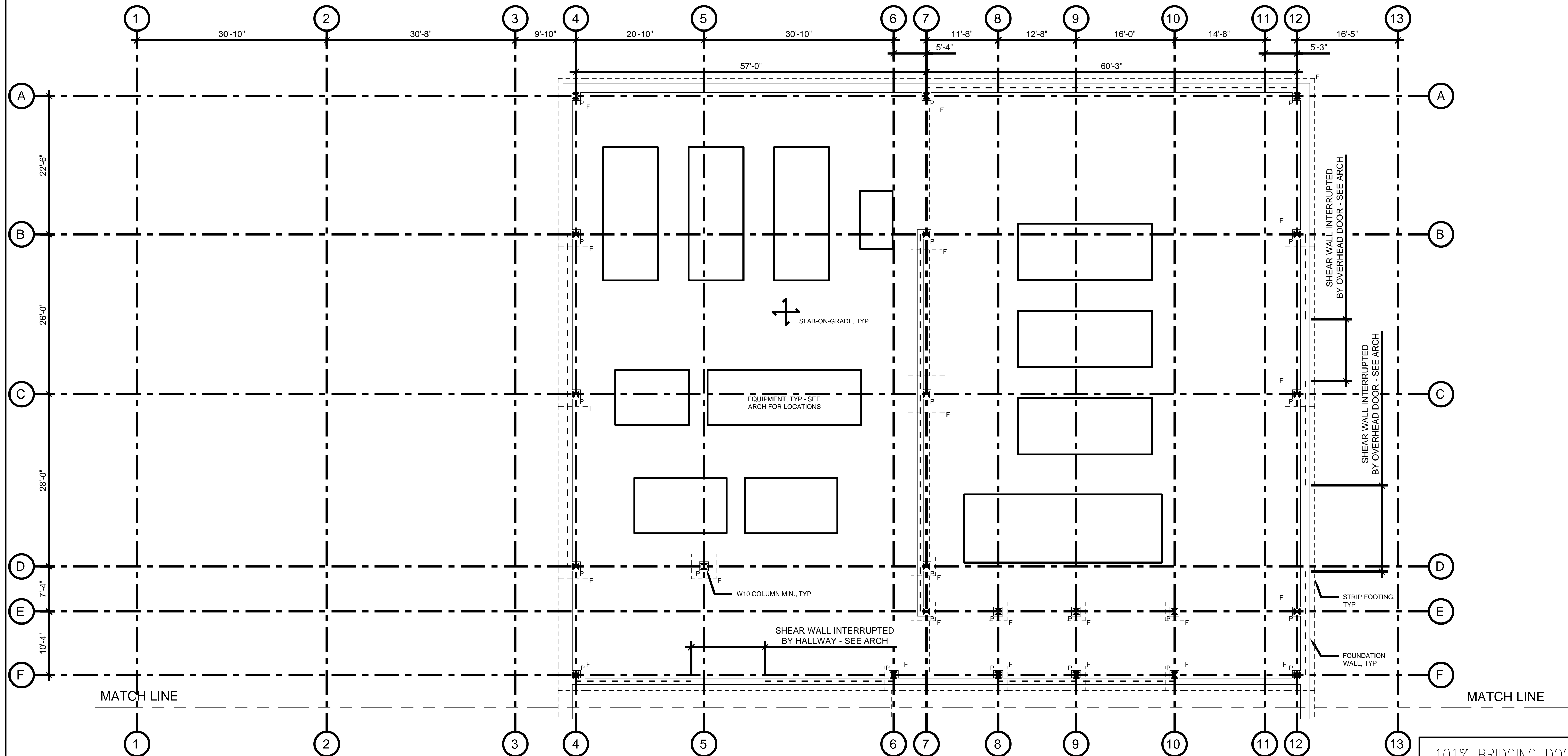
PROJECT NO. 321-055-138
DATE 4/22/2021
SHEET NO. <b>S-2</b> OF ( ) SHEETS





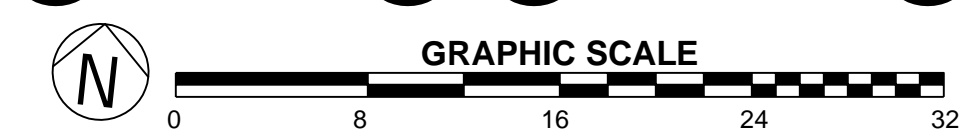
**SHEET NOTES**

1. FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1.
2. FOR OVERALL FOUNDATION PLAN, SEE DRAWING S-2.
3. COORDINATE THIS DRAWING WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. T/SLAB EL +0'-0" UNLESS NOTED OTHERWISE ON PLAN.
5. B/FOOTING EL -4'-0" UNLESS NOTED OTHERWISE ON PLAN.
6. FOOTINGS, PIERS, AND SLABS FOR REFERENCE ONLY AND TO BE DETAILED IN DESIGN DEVELOPMENT PHASE.
7. F INDICATES SPREAD FOOTING.
8. P INDICATES PIER.
9. ——— INDICATES MASONRY SHEAR WALL LOCATION. 8" MIN. MASONRY AT SINGLE STORY WALLS, 10" MIN. MASONRY AT TWO STORY WALLS.
10. PROVIDE SLAB-ON-GRADE WITH THE FOLLOWING THICKNESSES (SEE ARCH DRAWINGS FOR ROOM DESIGNATIONS):
  - ADMINISTRATIVE AREAS: 6"
  - GARAGE & MECHANICAL AREAS: 8"
  - EQUIPMENT PADS: 14"
11. EQUIPMENT PAD REQUIRED AT FUEL STORAGE TANKS OUTSIDE OF BUILDING. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND CIVIL DRAWINGS FOR LOCATION.



1 PARTIAL FOUNDATION PLAN - NORTH  
1/8" = 1'-0"

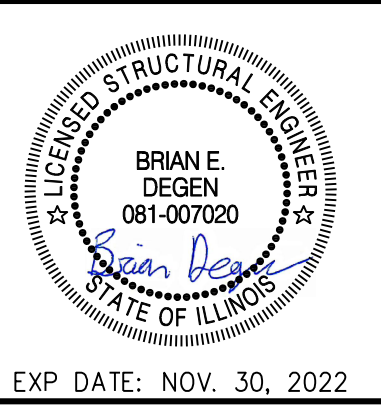
NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.



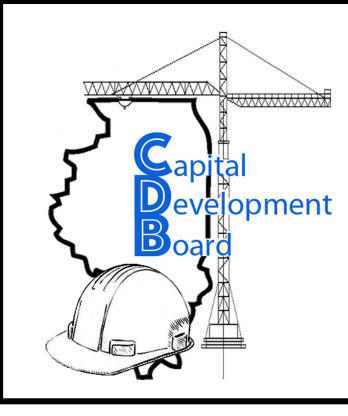
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4/22/2021

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NO.	DATE	REMARKS	DMM	DMM
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			CHECKED	APPROVED
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www.stanleyconsultants.com  
Illinois Firm Registration No.: 184-001533

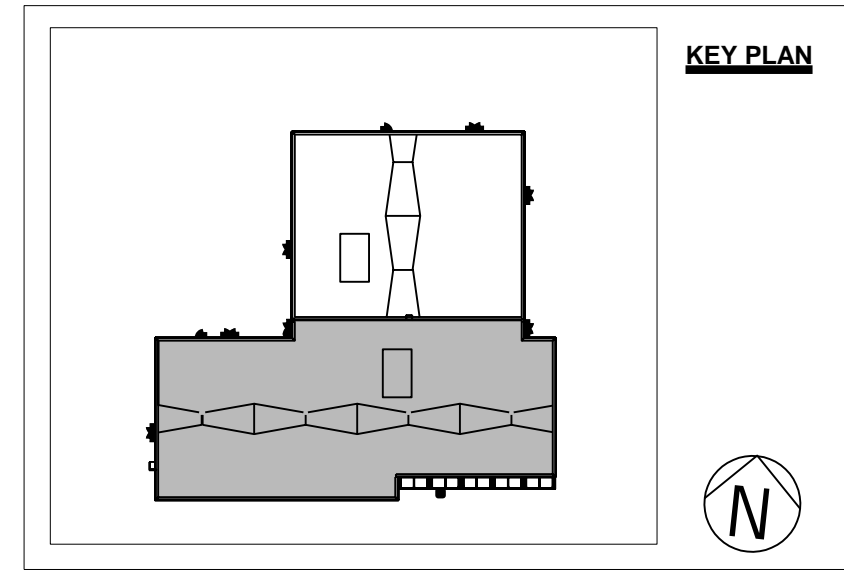


State of Illinois  
JB PRITZKER, GOVERNOR  
Illinois Capital Development Board

**FOUNDATION PLAN - NORTH**  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

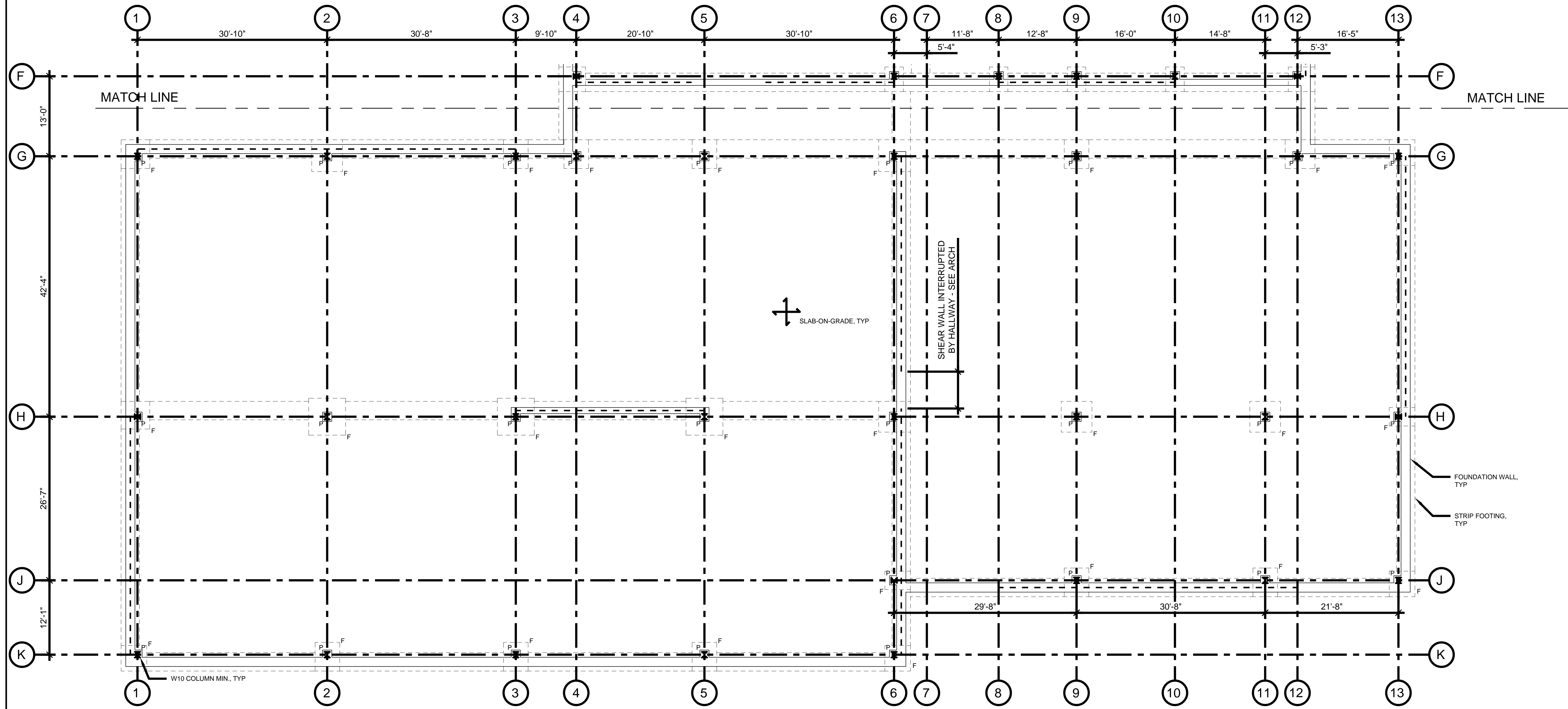
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DATE	4/22/2021
SHEET NO.	<b>S-2.1</b>
OF ( ) SHEETS	





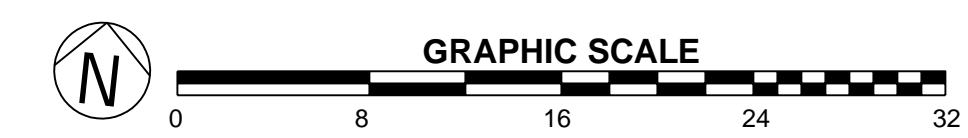
**SHEET NOTES**

1. FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1.
2. FOR OVERALL FOUNDATION PLAN, SEE DRAWING S-2.
3. COORDINATE THIS DRAWING WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. T/SLAB EL +0'-0" UNLESS NOTED OTHERWISE ON PLAN.
5. B/FOOTING EL -4'-0" UNLESS NOTED OTHERWISE ON PLAN.
6. FOOTINGS, PIERS, AND SLABS FOR REFERENCE ONLY AND TO BE DETAILED IN DESIGN DEVELOPMENT PHASE.
7. F INDICATES SPREAD FOOTING.
8. P INDICATES PIER.
9. - - - INDICATES MASONRY SHEAR WALL LOCATION. 8" MIN. MASONRY AT SINGLE STORY WALLS, 10" MIN. MASONRY AT TWO STORY WALLS.
10. PROVIDE SLAB-ON-GRADE WITH THE FOLLOWING THICKNESSES (SEE ARCH DRAWINGS FOR ROOM DESIGNATIONS):
  - ADMINISTRATIVE AREAS: 6"
  - GARAGE & MECHANICAL AREAS: 8"
  - EQUIPMENT PADS: 14"
11. EQUIPMENT PAD REQUIRED AT FUEL STORAGE TANKS OUTSIDE OF BUILDING. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND CIVIL DRAWINGS FOR LOCATION.



1 PARTIAL FOUNDATION PLAN - SOUTH  
1/8" = 1'-0"

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.



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4/22/2021

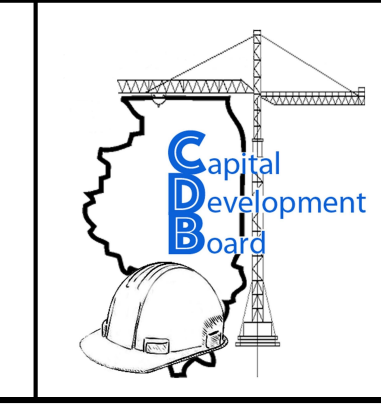
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REVISIONS		
NO.	DATE	REMARKS

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DMM	DMM
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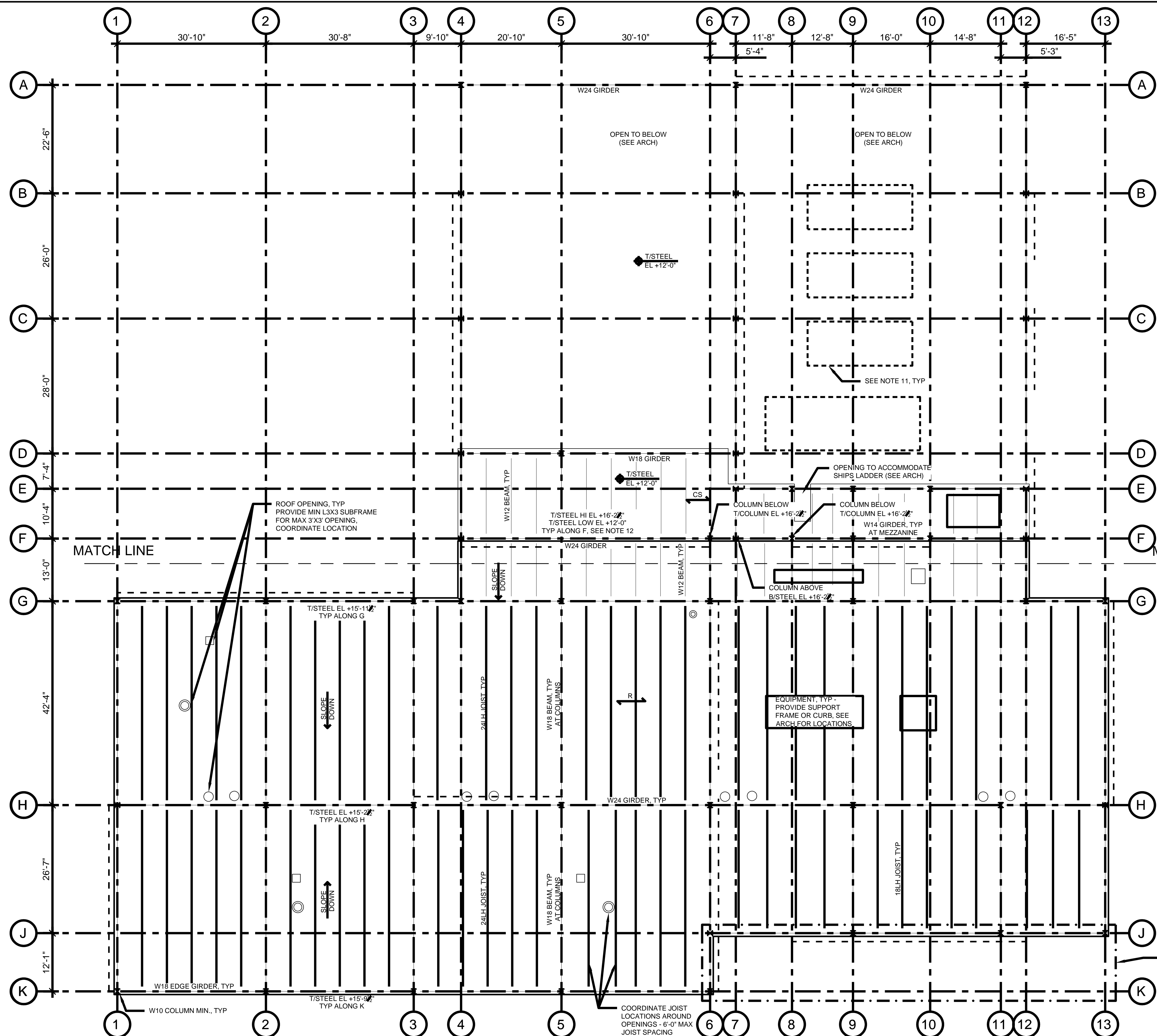
**FOUNDATION PLAN - SOUTH**  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.	321-055-138
DATE	4/22/2021
SHEET NO.	<b>S-2.2</b>
OF ( ) SHEETS	



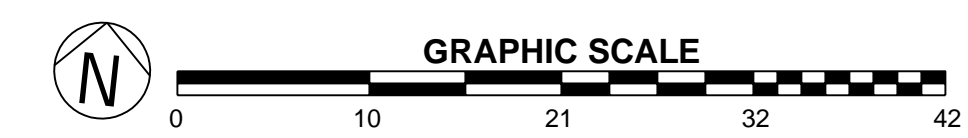
**SHEET NOTES**

- FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1.
- FOR PARTIAL MEZZANINE AND LOW ROOF PLANS, SEE DRAWINGS S-3.1 AND S-3.2.
- COORDINATE THIS DRAWING WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- T/STEEL INDICATES TOP OF JOIST OR BEAM. WHERE JOISTS BEAR ON WIDE FLANGE GIRDERS, TOP OF WIDE FLANGE GIRDERS IS TO BE SET 2-1/2" BELOW T/STEEL TO ALLOW FOR JOIST BEARING.
- R INDICATES STEEL ROOF DECK.
- CS INDICATES COMPOSITE FLOOR.
- STEEL ROOF DECK: 1-1/2"-18 GA TYPE "B", GALVANIZED
- COMPOSITE FLOOR:  
TOTAL SLAB THICKNESS 4" NORMAL WEIGHT CONCRETE  
STEEL DECK 1-1/2"-20 GA
- - - INDICATES MASONRY SHEAR WALL LOCATION. 8" MIN. MASONRY AT SINGLE STORY WALLS, 10" MIN. MASONRY AT TWO STORY WALLS.
- BEAMS AND JOISTS SHALL BE EQUALLY SPACED IN A BAY UNLESS NOTED OTHERWISE ON PLAN.
- BOILER LOCATED BELOW. MISCELLANEOUS STEEL IS TO BE PROVIDED FOR SUPPORT OF THE BOILER STACKS - SEE MECHANICAL AND ARCHITECTURE DRAWINGS FOR ADDITIONAL INFORMATION.
- TWO GIRDERS REQUIRED BETWEEN COLUMNS ALONG GRID F - ONE FOR ROOF AT T/STEEL EL +16'-2" AND ONE FOR MEZZANINE AT T/STEEL EL +12'-0".



1 OVERALL MEZZANINE AND LOW ROOF FRAMING PLAN  
3/32" = 1'-0"

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.



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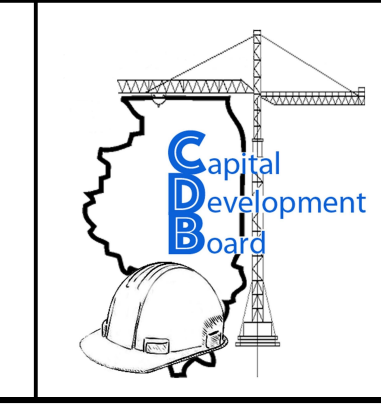
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REVISIONS		
NO.	DATE	REMARKS

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DMM	DMM
TRACED	APPROVED
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CHECKED	APPROVED
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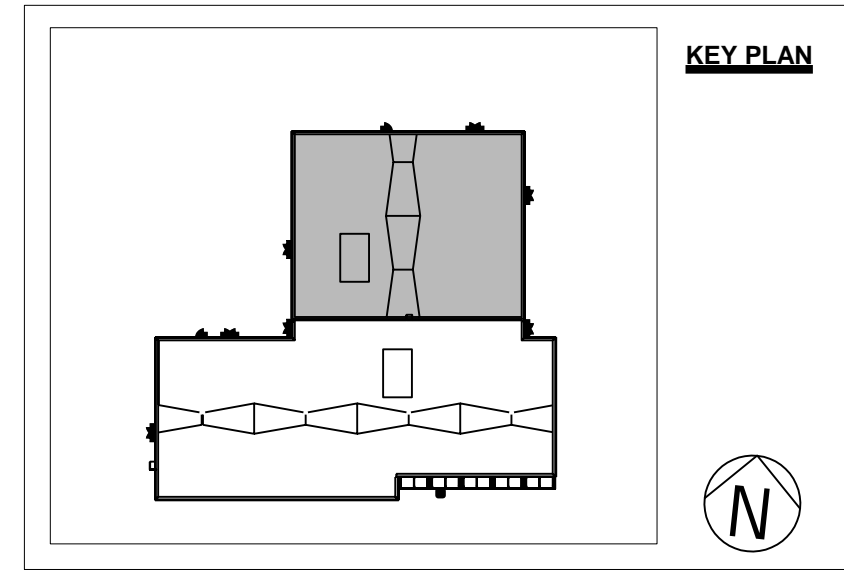


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**OVERALL MEZZANINE AND LOW ROOF PLAN**  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

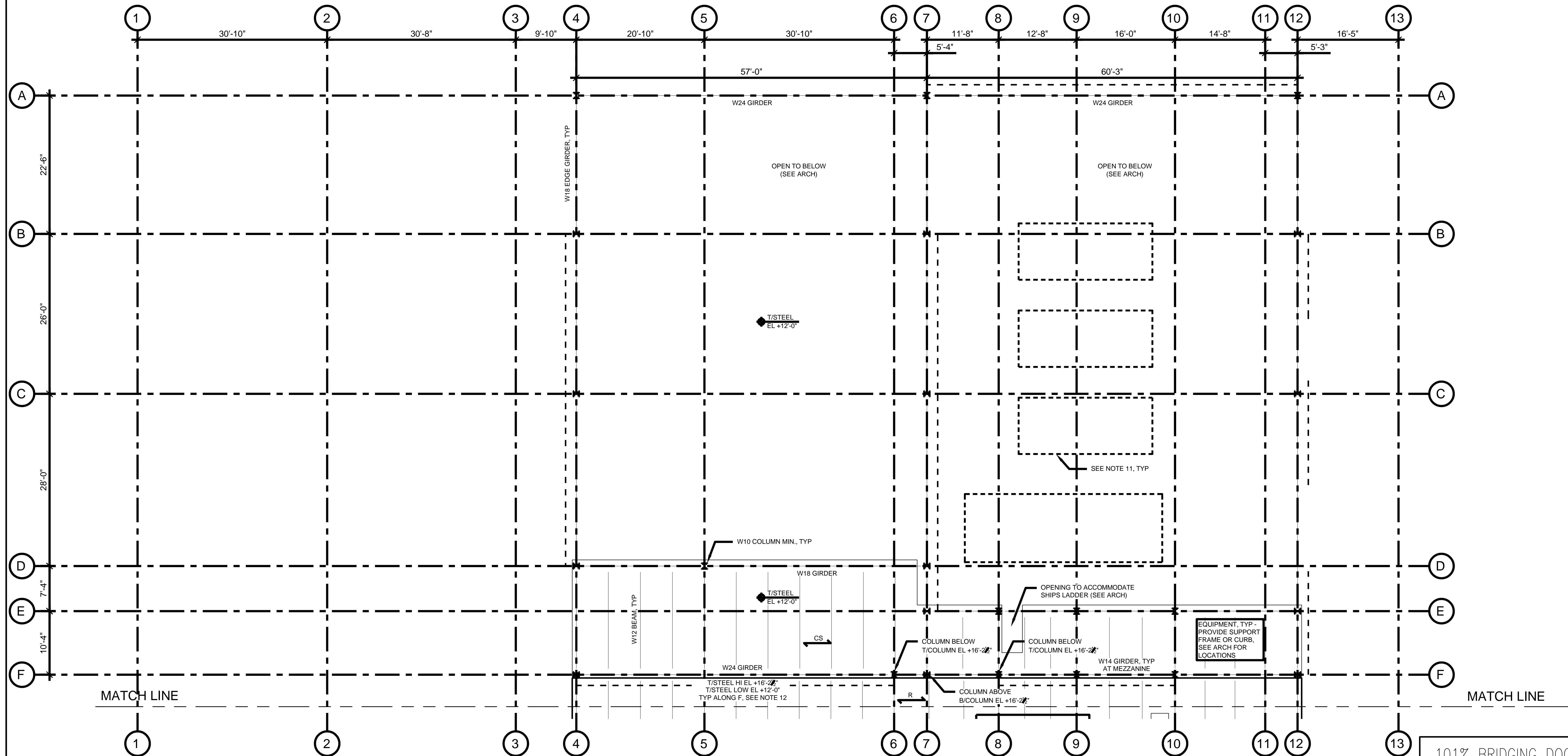
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SHEET NO.  
**S-3**  
OF ( ) SHEETS





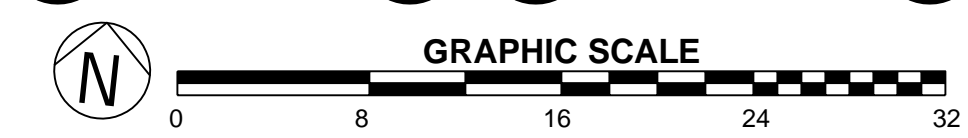
**SHEET NOTES**

1. FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1.
2. FOR OVERALL MEZZANINE AND LOW ROOF PLAN, SEE DRAWING S-3.
3. COORDINATE THIS DRAWING WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. T/STEEL INDICATES TOP OF JOIST OR BEAM. WHERE JOISTS BEAR ON WIDE FLANGE GIRDERS, TOP OF WIDE FLANGE GIRDERS IS TO BE SET 2-1/2" BELOW T/STEEL TO ALLOW FOR JOIST BEARING.
5. R INDICATES STEEL ROOF DECK.
6. CS INDICATES COMPOSITE FLOOR.
7. STEEL ROOF DECK: 1-1/2"-18 GA TYPE "B", GALVANIZED
8. COMPOSITE FLOOR:  
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12. TWO GIRDERS REQUIRED BETWEEN COLUMNS ALONG GRID F - ONE FOR ROOF AT T/STEEL EL +16'-2" AND ONE FOR MEZZANINE AT T/STEEL EL +12'-0".



1 PARTIAL MEZZANINE AND LOW ROOF FRAMING PLAN - NORTH  
1/8" = 1'-0"

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.



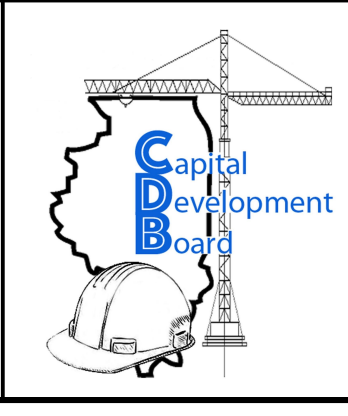
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REVISIONS			DRAWN	PREPARED
NO.	DATE	REMARKS	DMM	DMM
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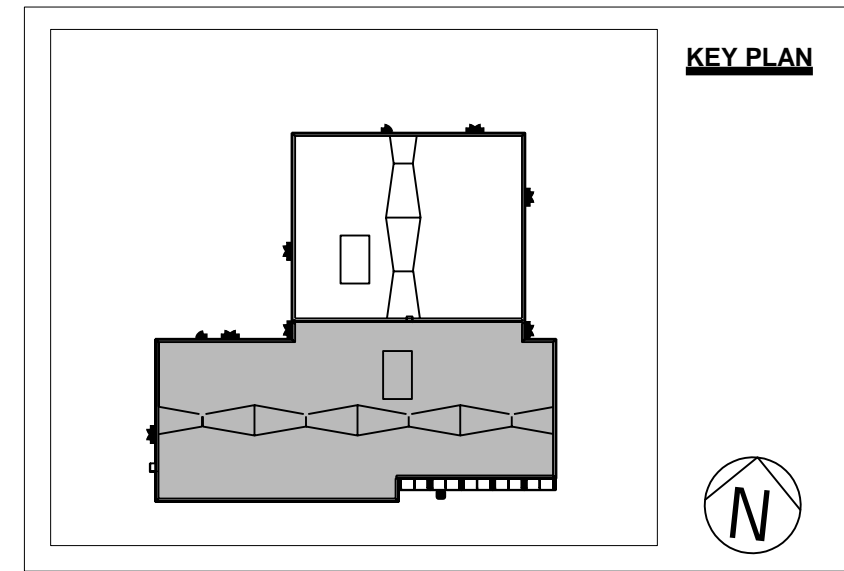


State of Illinois  
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**MEZZANINE AND LOW ROOF PLAN - NORTH**  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

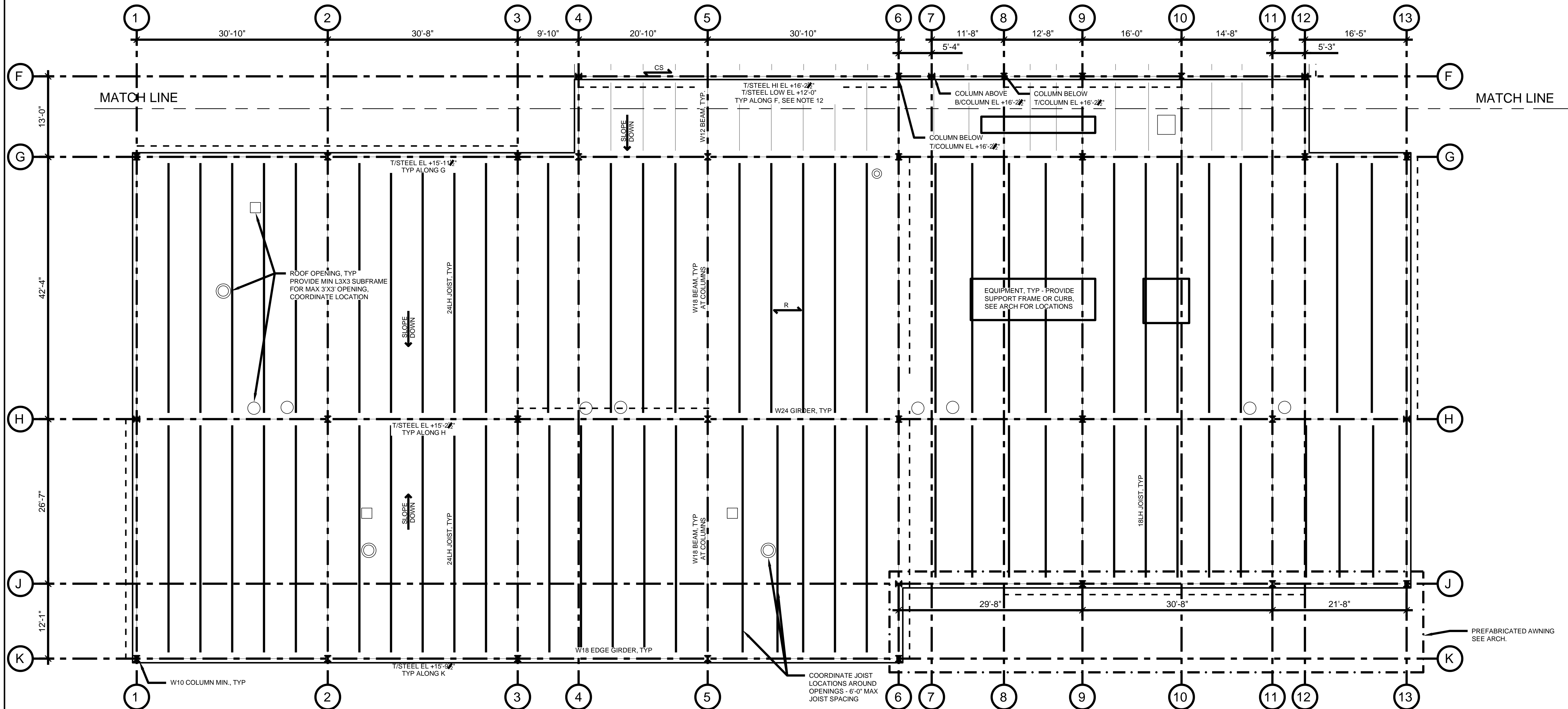
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DATE 4/22/2021
SHEET NO. <b>S-3.1</b>
OF ( ) SHEETS





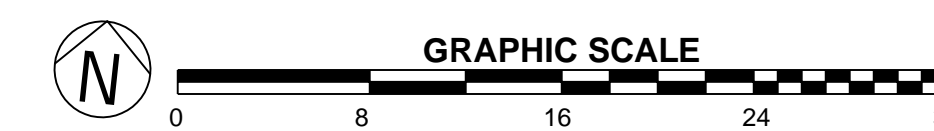
**SHEET NOTES**

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- FOR OVERALL MEZZANINE AND LOW ROOF PLAN, SEE DRAWING S-3.
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1 PARTIAL MEZZANINE AND LOW ROOF FRAMING PLAN - SOUTH  
1/8" = 1'-0"

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

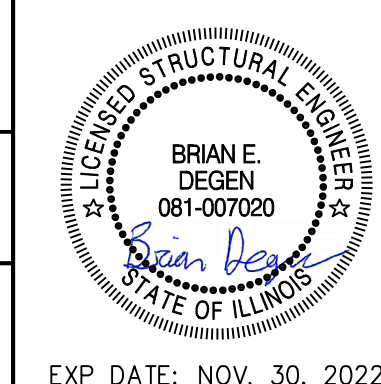


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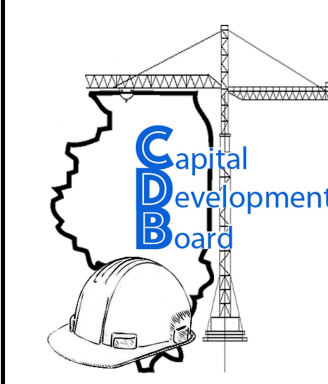
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REVISIONS		
NO.	DATE	REMARKS

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DMM	DMM
TRACED	APPROVED
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CHECKED	APPROVED
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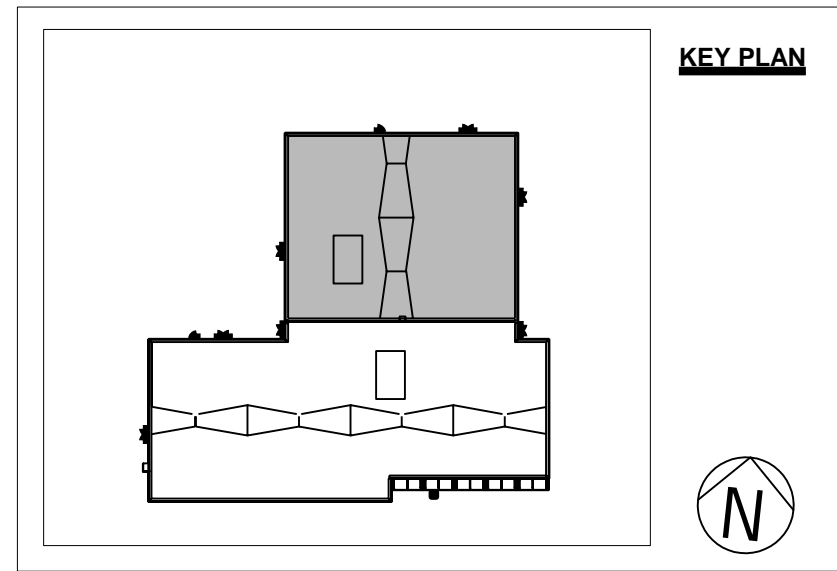
**MEZZANINE AND LOW ROOF PLAN - SOUTH**

NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO. 321-055-138
DATE 4/22/2021
SHEET NO. <b>S-3.2</b>
OF ( ) SHEETS

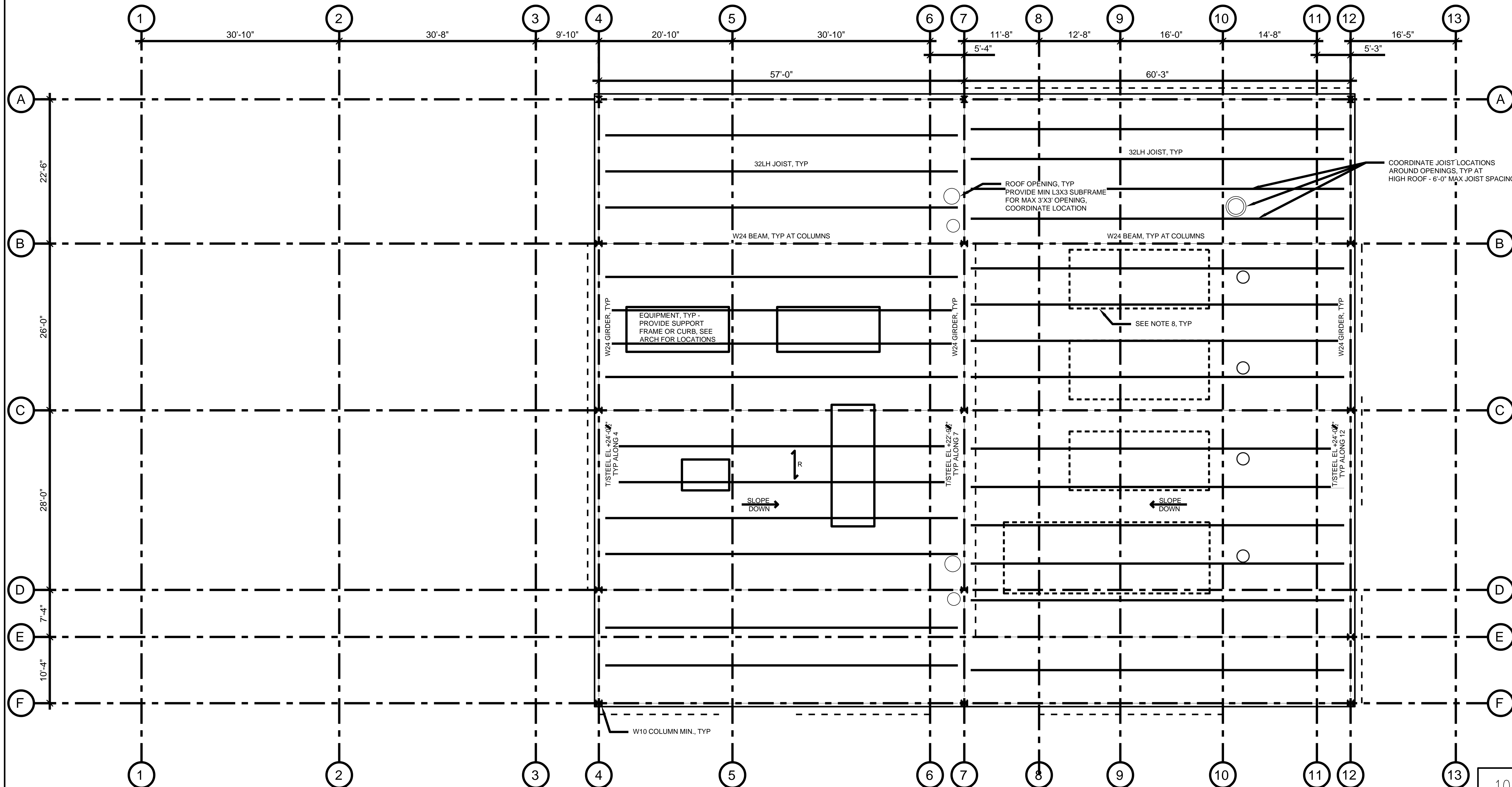
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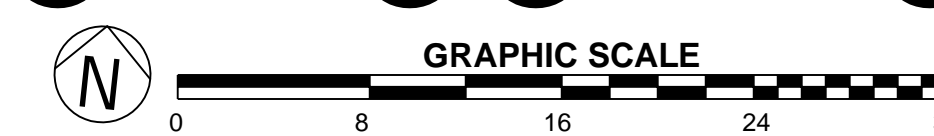
**SHEET NOTES**

1. FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1.
2. COORDINATE THIS DRAWING WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
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5. STEEL ROOF DECK: 1-1/2"-18 GA TYPE "B", GALVANIZED
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7. BEAMS AND JOISTS SHALL BE EQUALLY SPACED IN A BAY UNLESS NOTED OTHERWISE ON PLAN.
8. BOILER LOCATED BELOW. MISCELLANEOUS STEEL IS TO BE PROVIDED FOR SUPPORT OF THE BOILER STACKS - SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



1 HIGH ROOF FRAMING PLAN  
1/8" = 1'-0"

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.



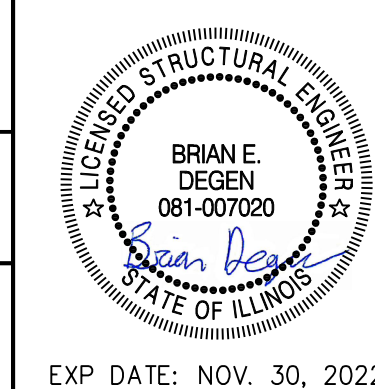
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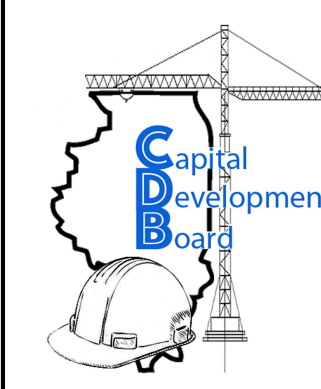
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NO.	DATE	REMARKS

DRAWN	PREPARED
DMM	DMM
TRACED	APPROVED
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CHECKED	APPROVED
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EXP. DATE: NOV. 30, 2022

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**JB PRITZKER, GOVERNOR**  
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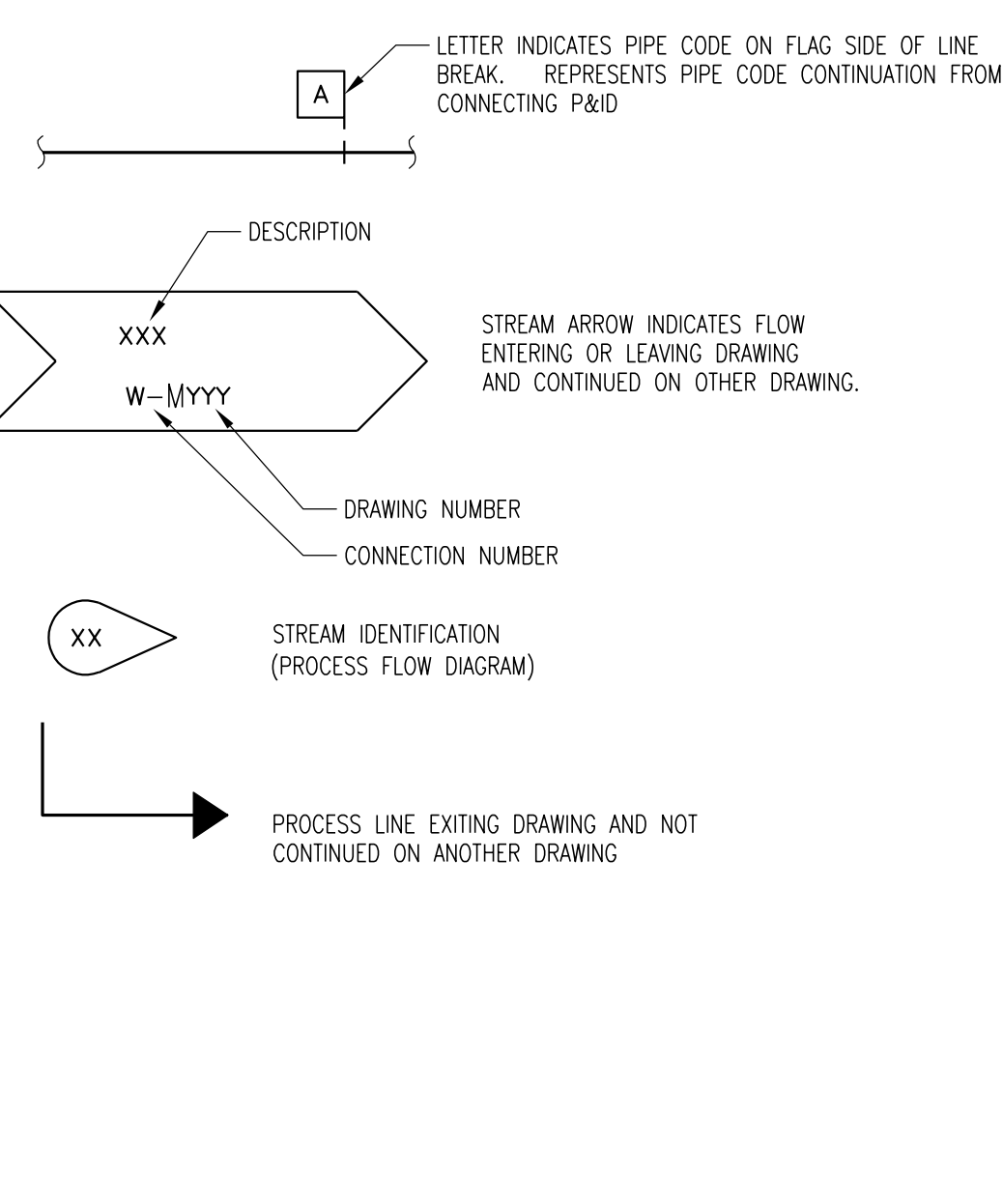
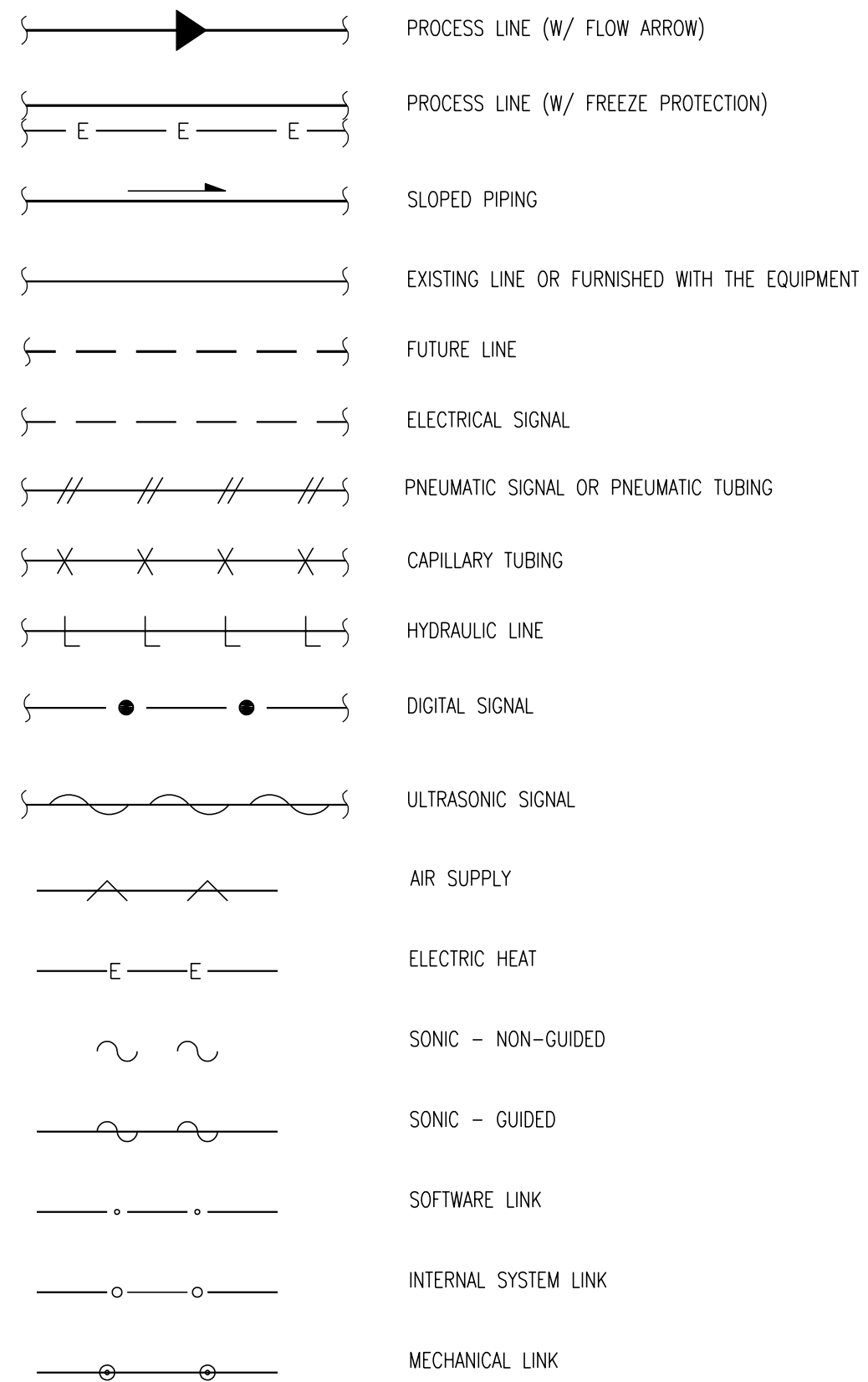
**HIGH ROOF PLAN**

NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

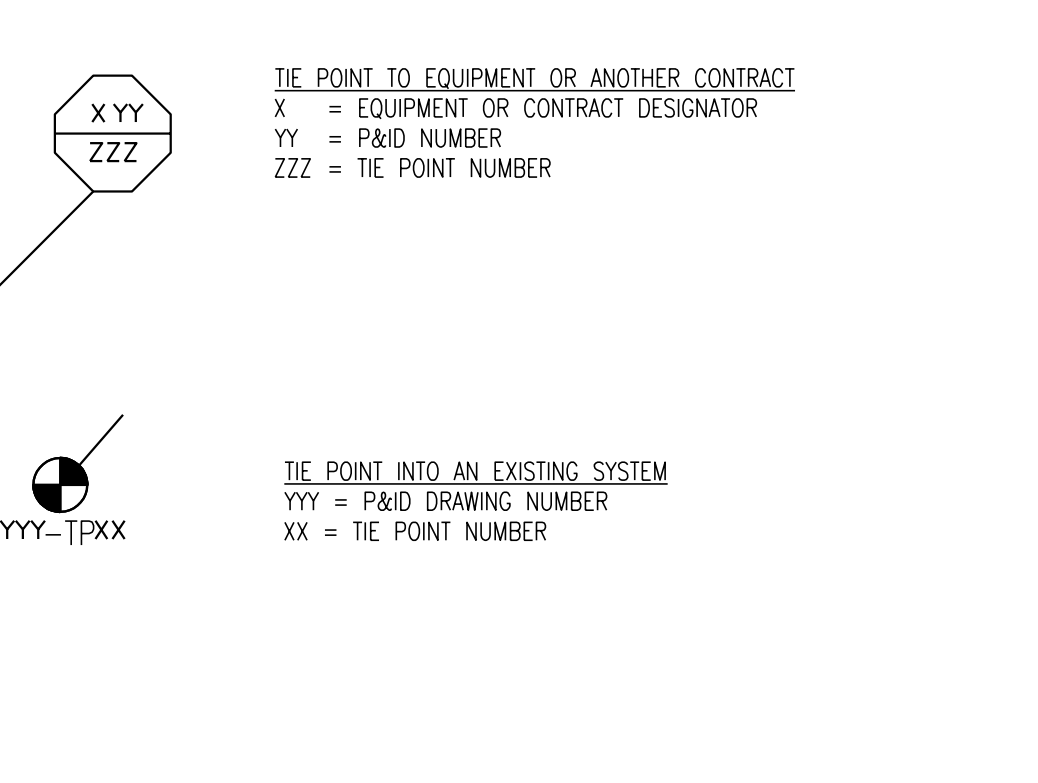
PROJECT NO. 321-055-138
DATE 4/22/2021
SHEET NO. <b>S-4</b> OF ( ) SHEETS



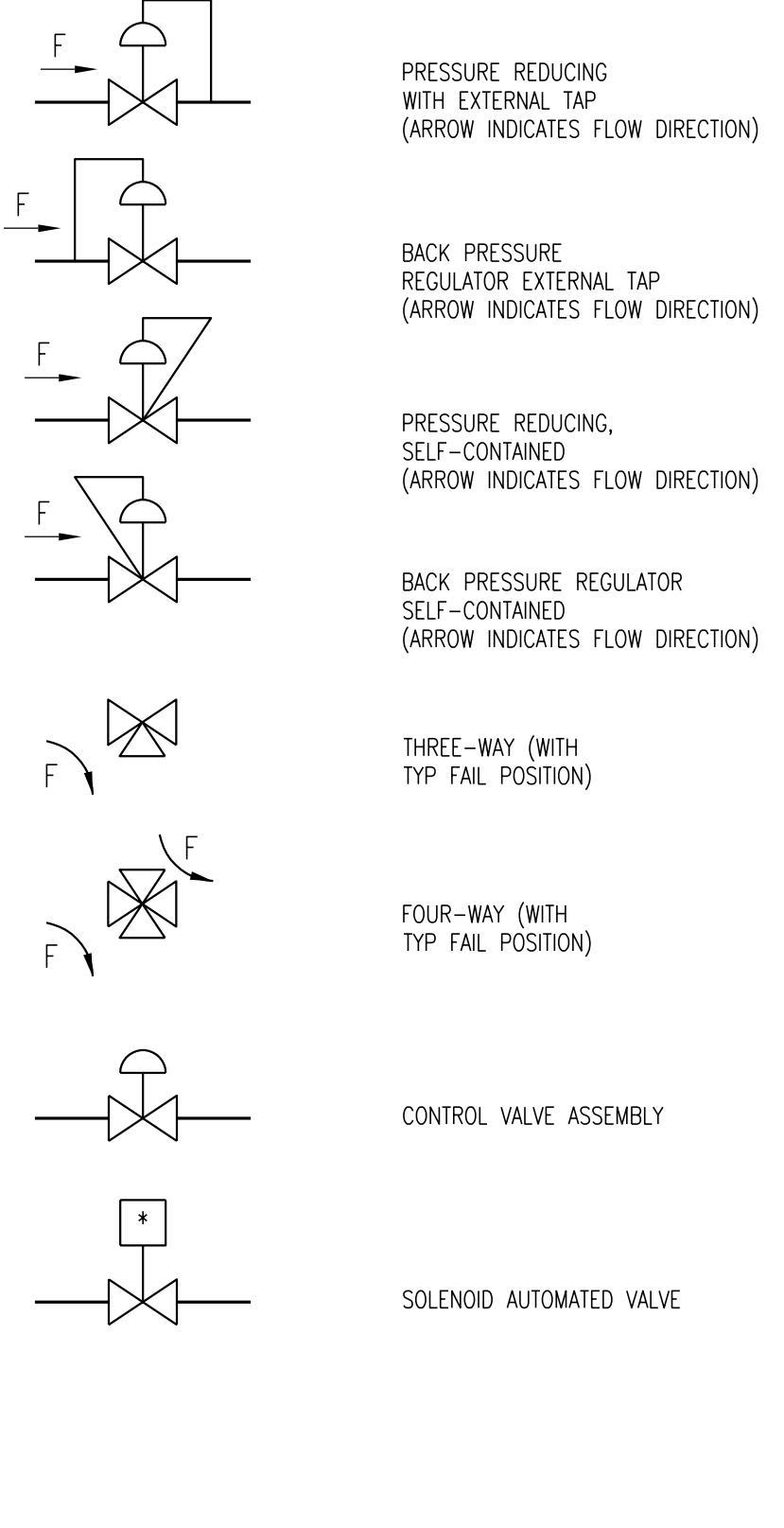
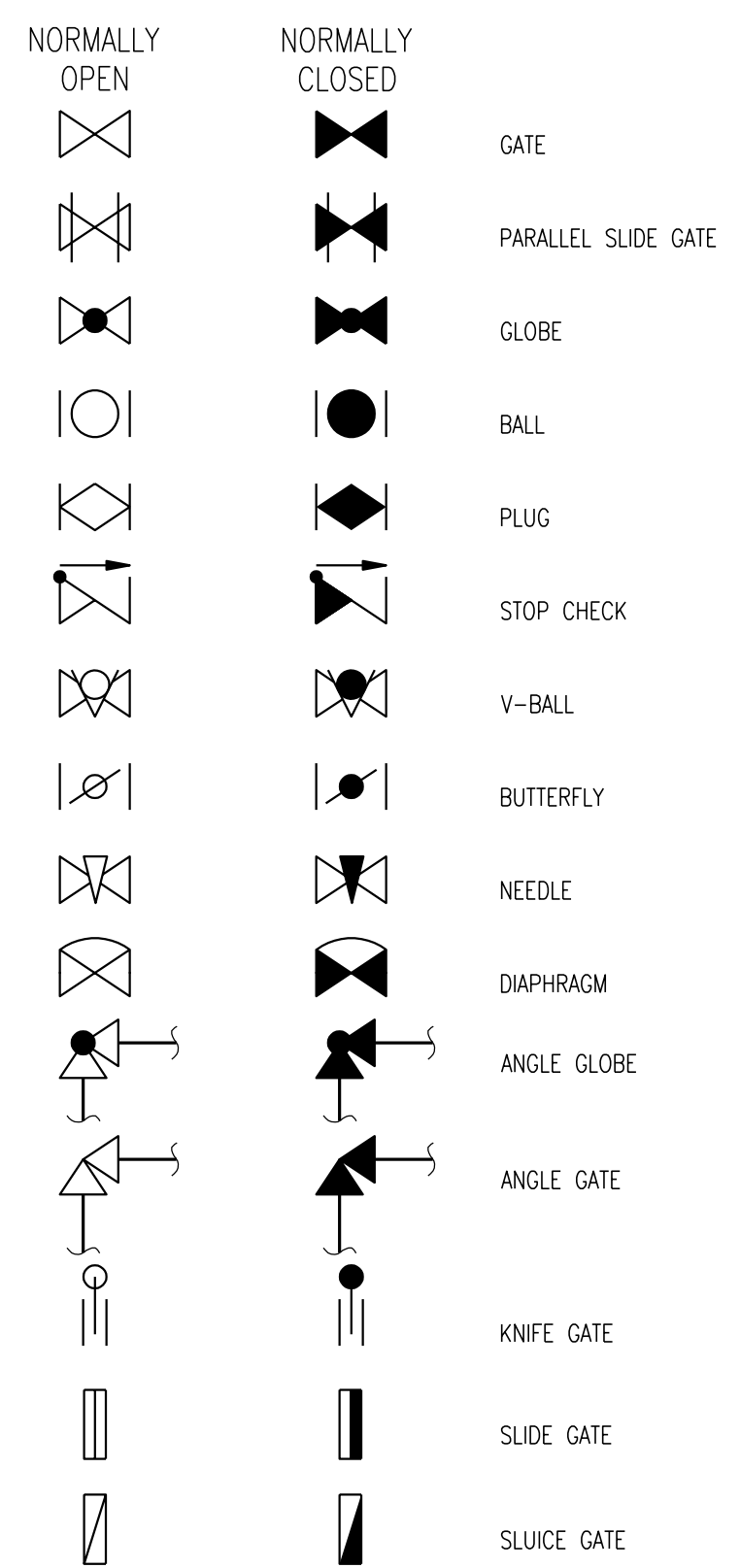
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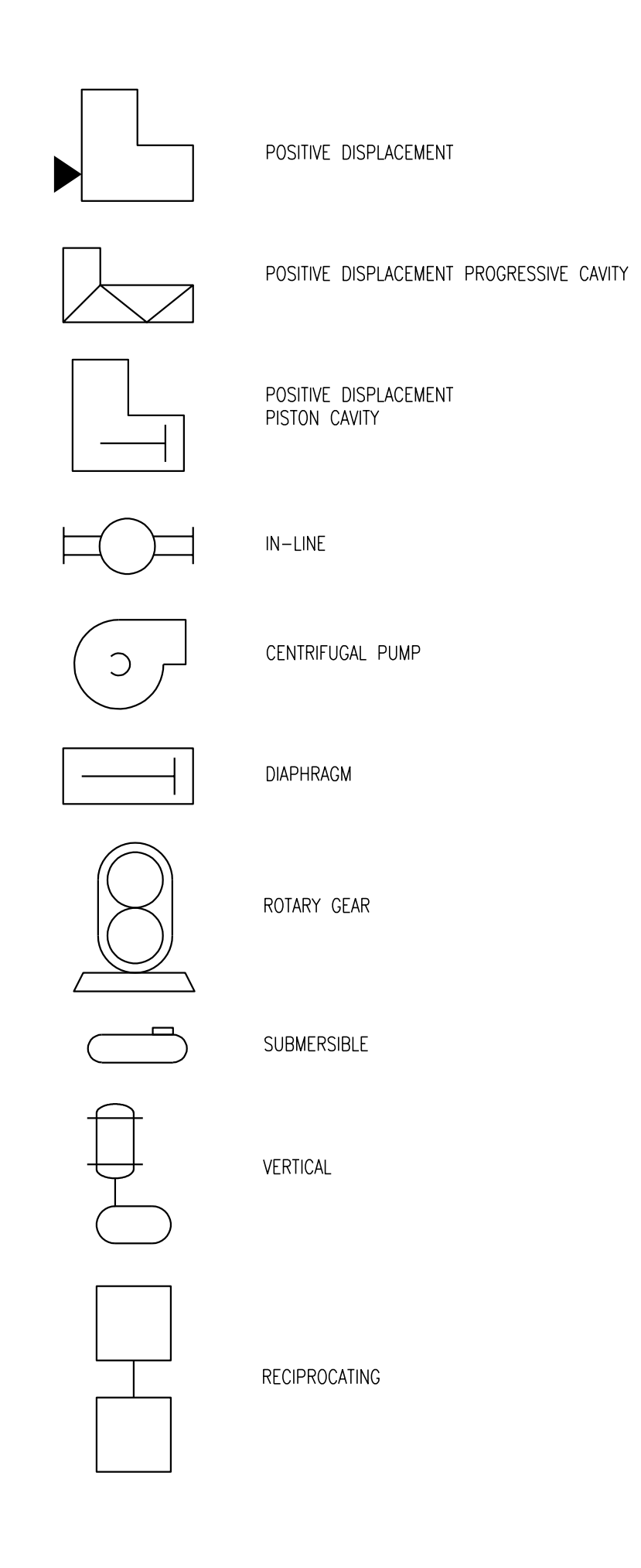
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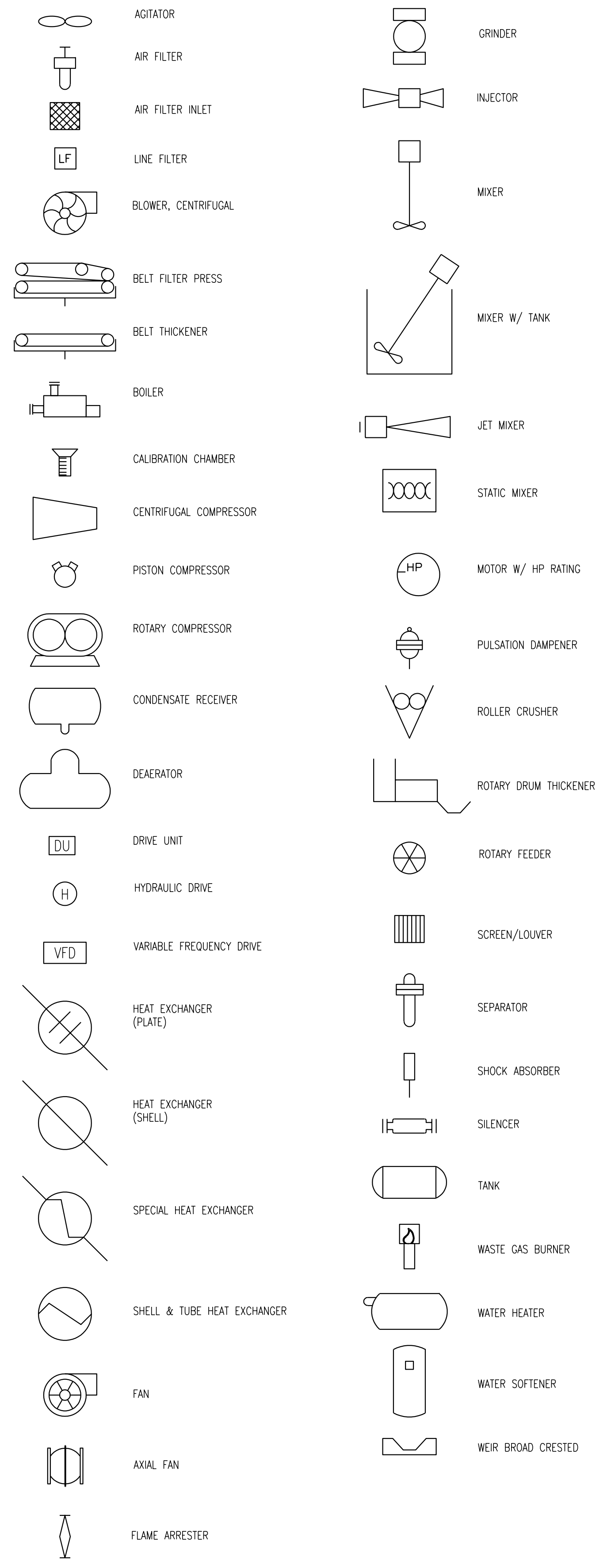
**VALVES**



**PUMPS**



**EQUIPMENT**



**GENERAL NOTES**

1. ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS LEGEND MAY NOT APPEAR ON THIS SET OF DRAWINGS.

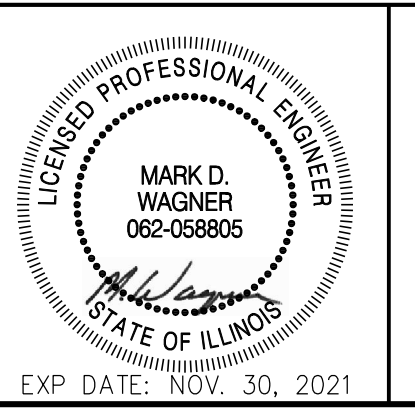
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4/22/2021

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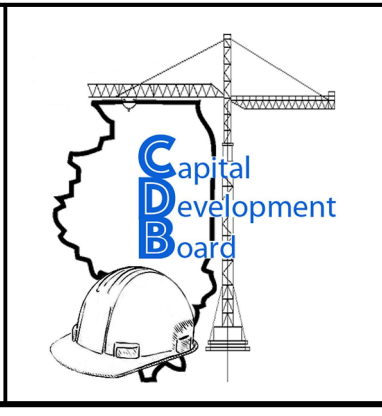
**REVISIONS**

NO.	DATE	REMARKS

DRAWN	PREPARED
B.K.	---
TRACED	APPROVED
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CHECKED	APPROVED
M.D.W.	M.D.W.



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Illinois Capital Development Board

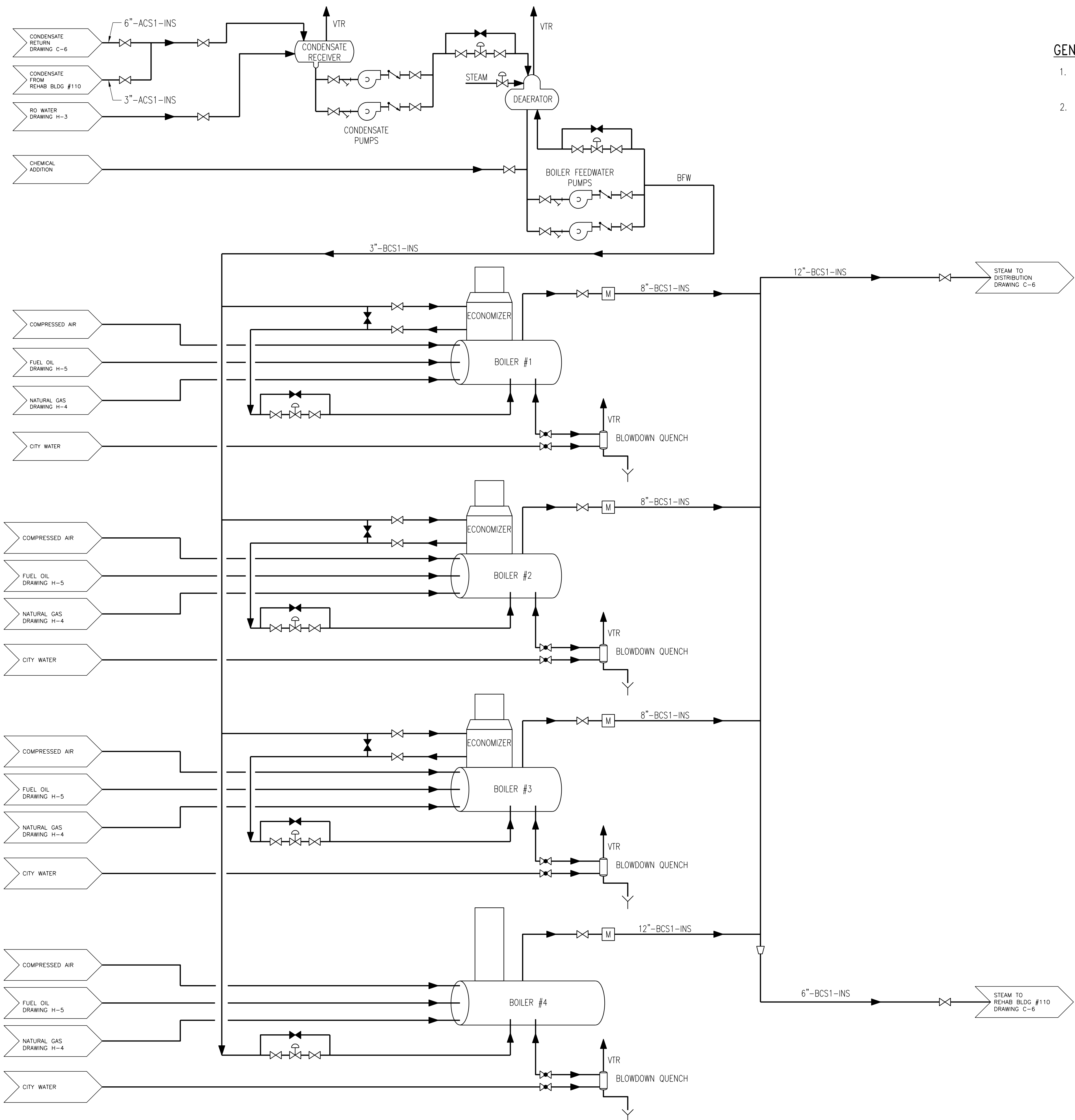
**MECHANICAL LEGEND**

NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.	321-055-138
DATE	4/22/2021
SHEET NO.	<b>H-1</b>
	31 OF (51) SHEETS

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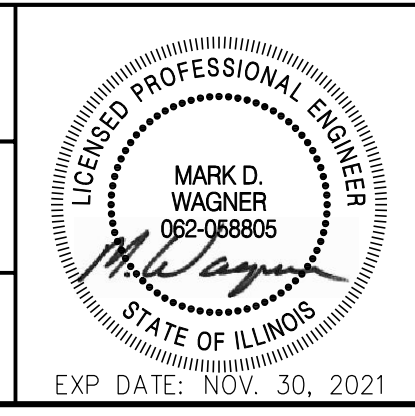
- GENERAL NOTES:**
1. SINGLE CHEMICAL ADDITION TO THE BOILER FEEDWATER SHOWN. PROVIDE ADDITIONAL CHEMICAL ADDITION LINES AS REQUIRED.
  2. BOILER #4 - 1200HP BOILER RELOCATED FROM EXISTING POWERHOUSE.

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

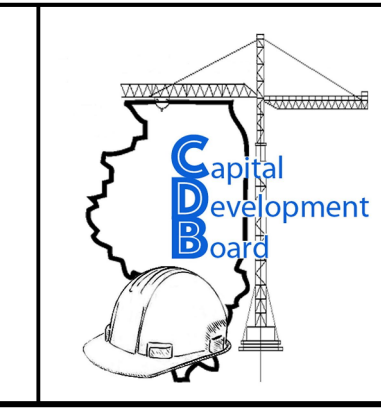
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REVISIONS			DRAWN	PREPARED
NO.	DATE	REMARKS	B.K.	---
			TRACED	APPROVED
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			CHECKED	APPROVED
			M.D.W.	M.D.W.



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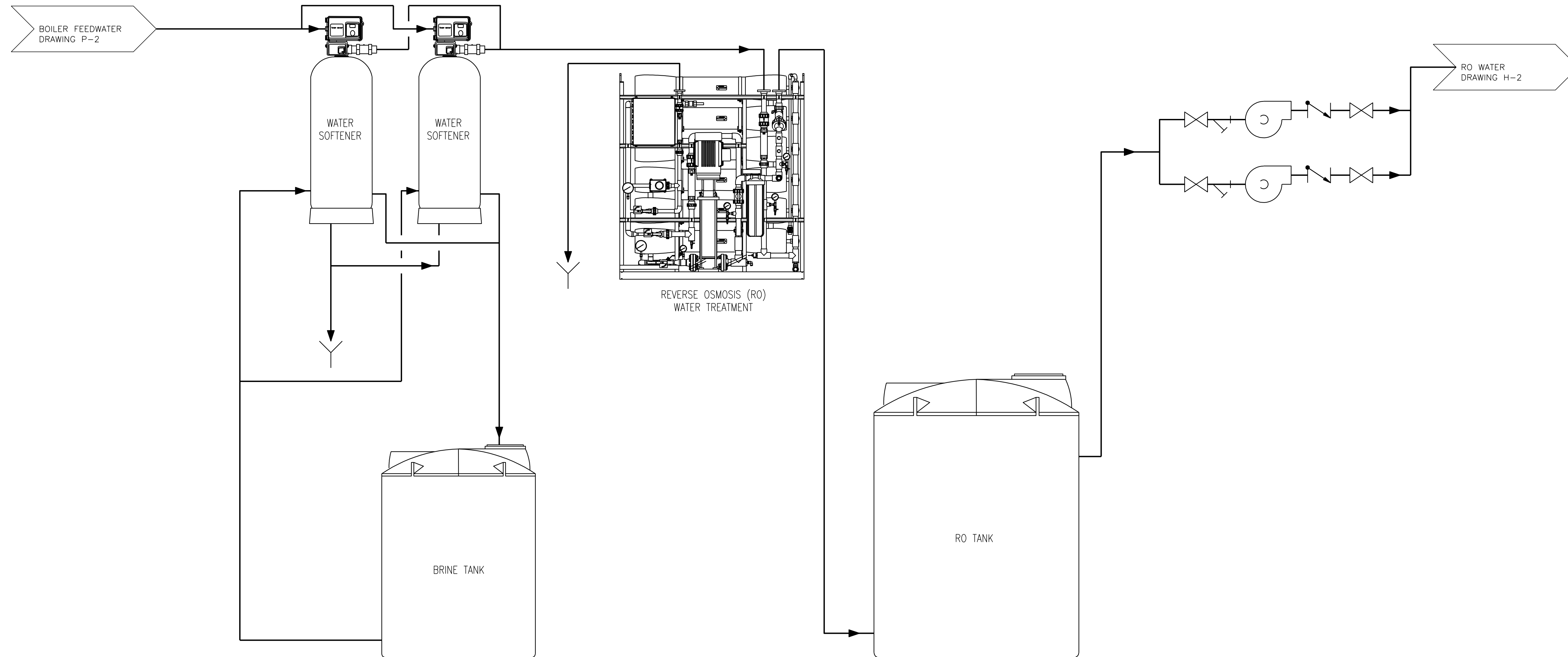


State of Illinois  
**JB PRITZKER, GOVERNOR**  
Illinois Capital Development Board

SCHMATIC DIAGRAM - STEAM AND CONDENSATE  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
DATE  
4/22/2021  
SHEET NO.  
**H-2**  
32 OF (51) SHEETS



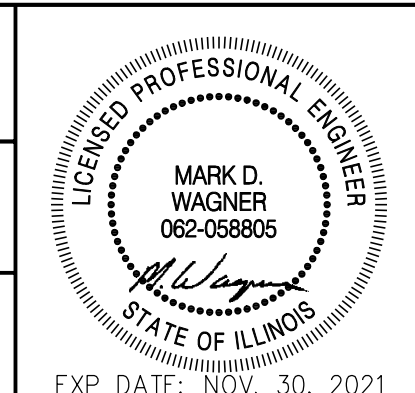


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4/22/2021

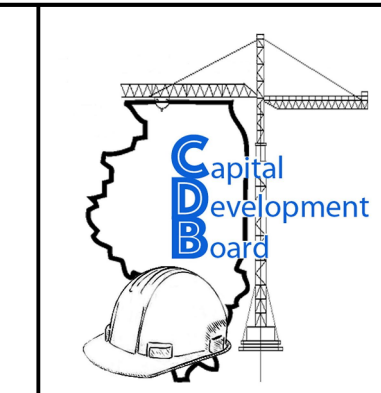
NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DATE	REMARKS

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TRACED ---	APPROVED ---
CHECKED M.D.W.	APPROVED M.D.W.



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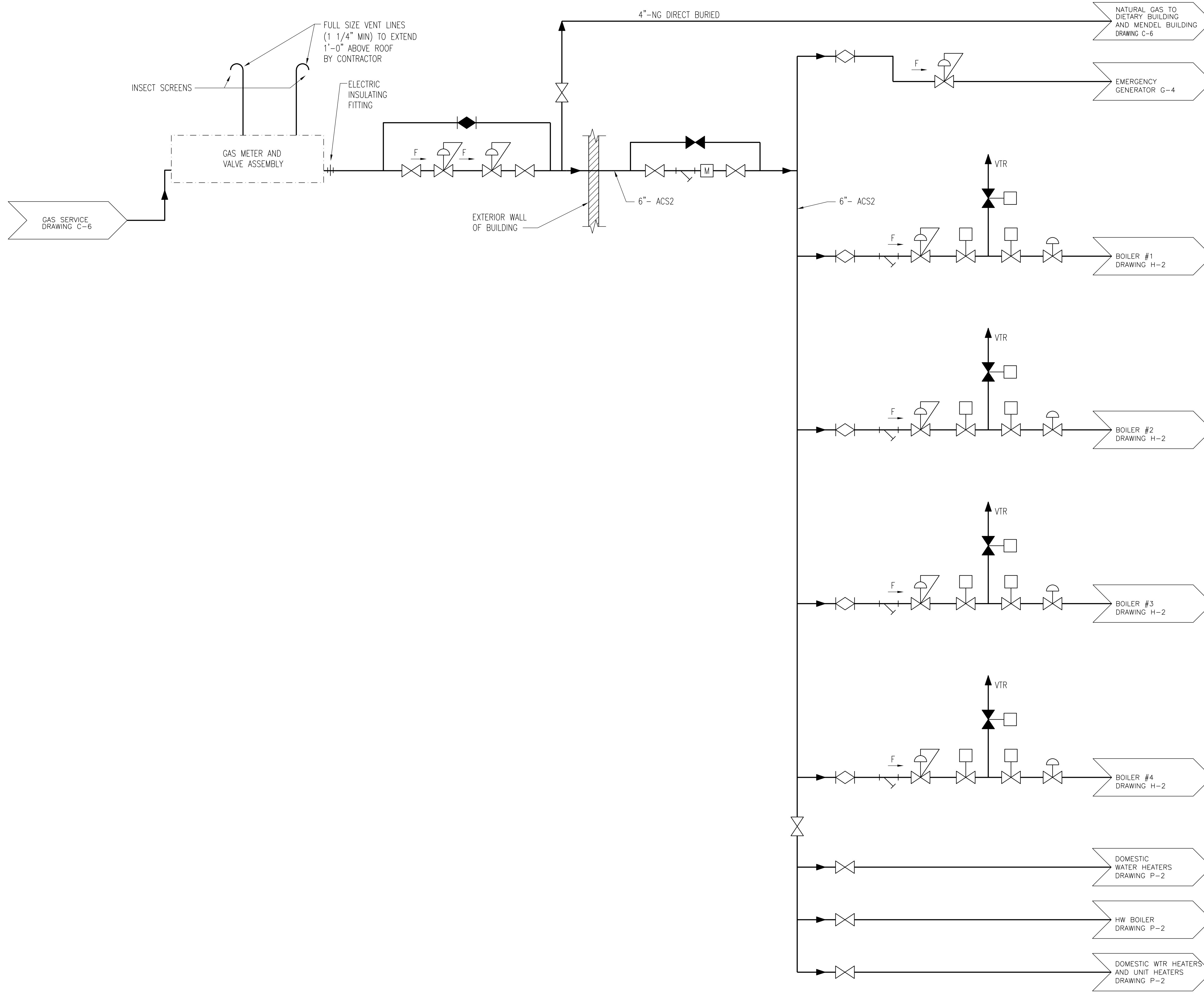
State of Illinois  
**JB PRITZKER, GOVERNOR**  
Illinois Capital Development Board

SCHMATIC DIAGRAM – FEEDWATER TREATMENT  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO. 321-055-138
DATE 4/22/2021
SHEET NO. <b>H-3</b>
33 OF (51 ) SHEETS

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SCI P11 # 29390.01.00 (PW-CDB)  
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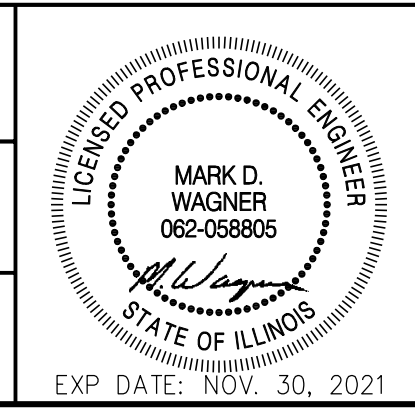
**GENERAL NOTES:**  
 1. SEE PROJECT MANUAL SECTION 231123 FACILITY NATURAL GAS PIPING FOR PIPING, VALVES AND SPECIALTIES SPECIFICATIONS.

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

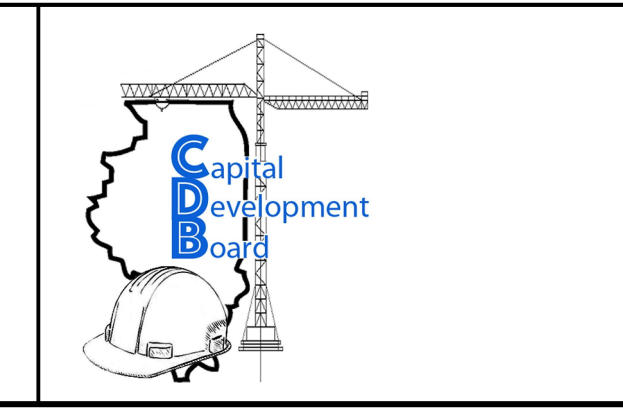
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REVISIONS			DRAWN	PREPARED
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			TRACED	APPROVED
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			CHECKED	APPROVED
			M.D.W.	M.D.W.



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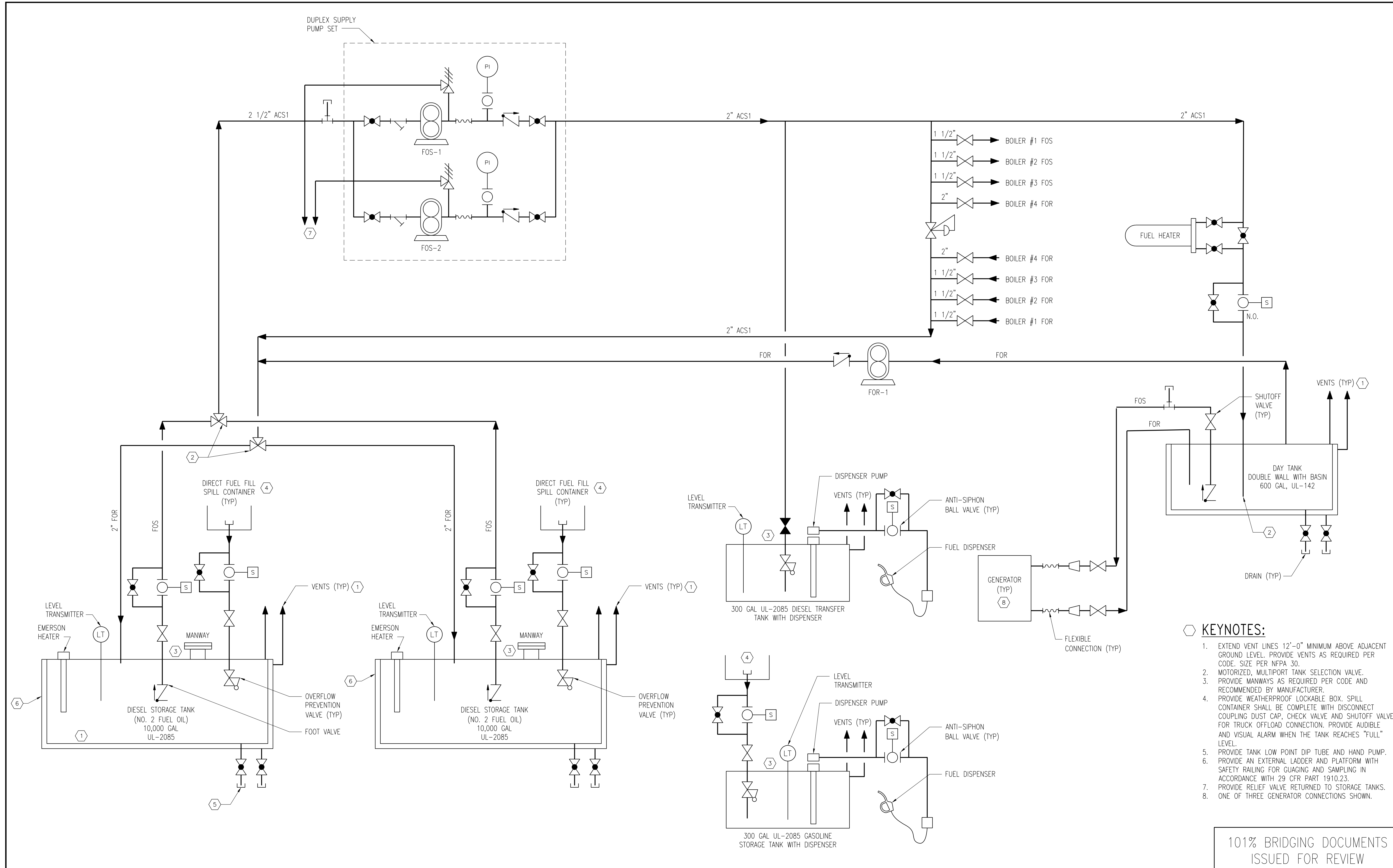
State of Illinois  
**JB PRITZKER, GOVERNOR**  
 Illinois Capital Development Board

**SCHEMATIC DIAGRAM - NATURAL GAS**  
 NEW POWER PLANT  
 ELGIN MENTAL HEALTH CENTER  
 750 SOUTH STATE STREET  
 ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
 DATE  
4/22/2021  
 SHEET NO.  
**H-4**  
 34 OF (51) SHEETS



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5/6/2021 9:48 AM  
SCI PJI # 29390.01.00 (PW-CDB)



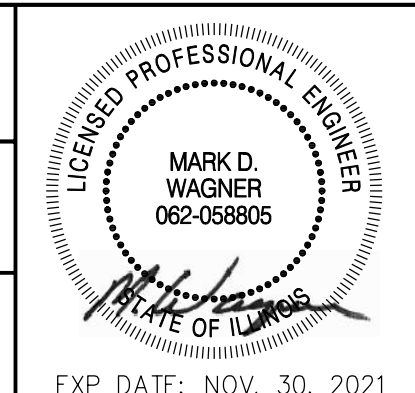
- KEYNOTES:**
1. EXTEND VENT LINES 12'-0" MINIMUM ABOVE ADJACENT GROUND LEVEL. PROVIDE VENTS AS REQUIRED PER CODE. SIZE PER NFPA 30.
  2. MOTORIZED, MULTIPORT TANK SELECTION VALVE.
  3. PROVIDE MANWAYS AS REQUIRED PER CODE AND RECOMMENDED BY MANUFACTURER.
  4. PROVIDE WEATHERPROOF LOCKABLE BOX. SPILL CONTAINER SHALL BE COMPLETE WITH DISCONNECT COUPLING DUST CAP, CHECK VALVE AND SHUTOFF VALVE FOR TRUCK OFFLOAD CONNECTION. PROVIDE AUDIBLE AND VISUAL ALARM WHEN THE TANK REACHES "FULL" LEVEL.
  5. PROVIDE TANK LOW POINT DIP TUBE AND HAND PUMP.
  6. PROVIDE AN EXTERNAL LADDER AND PLATFORM WITH SAFETY RAILING FOR GAUGING AND SAMPLING IN ACCORDANCE WITH 29 CFR PART 1910.23.
  7. PROVIDE RELIEF VALVE RETURNED TO STORAGE TANKS.
  8. ONE OF THREE GENERATOR CONNECTIONS SHOWN.

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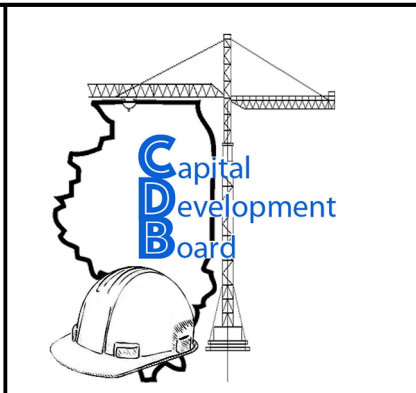
NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DATE	REMARKS

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B.K.	---
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M.D.W.	M.D.W.



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Illinois Capital Development Board

SCHEMATIC DIAGRAM - DIESEL		PROJECT NO. 321-055-138
NEW POWER PLANT ELGIN MENTAL HEALTH CENTER ELGIN, ILLINOIS COOK COUNTY, ILLINOIS		DATE 4/22/2021
		SHEET NO. <b>H-5</b>
		35 OF (51) SHEETS

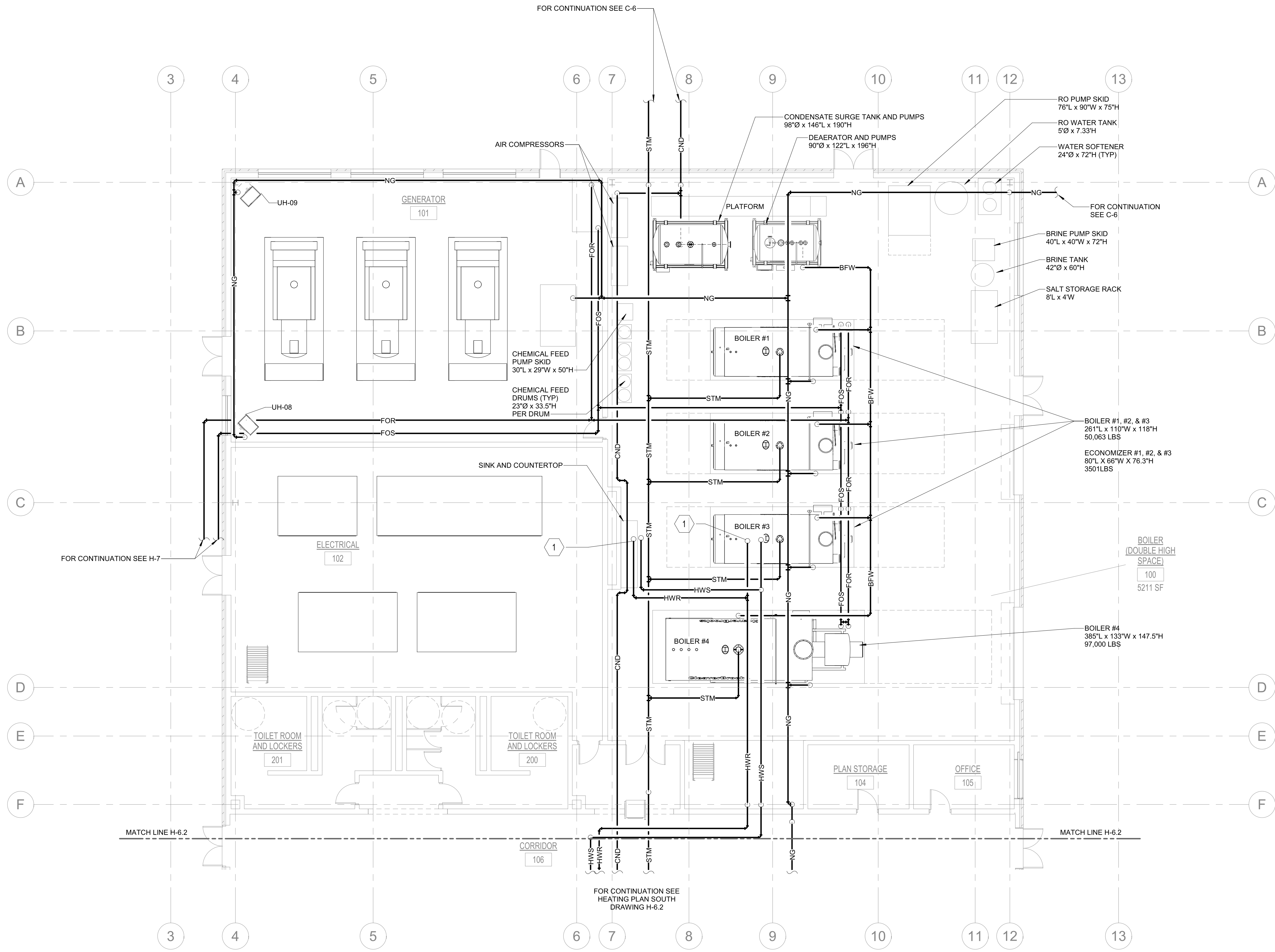


**KEYED NOTES:**

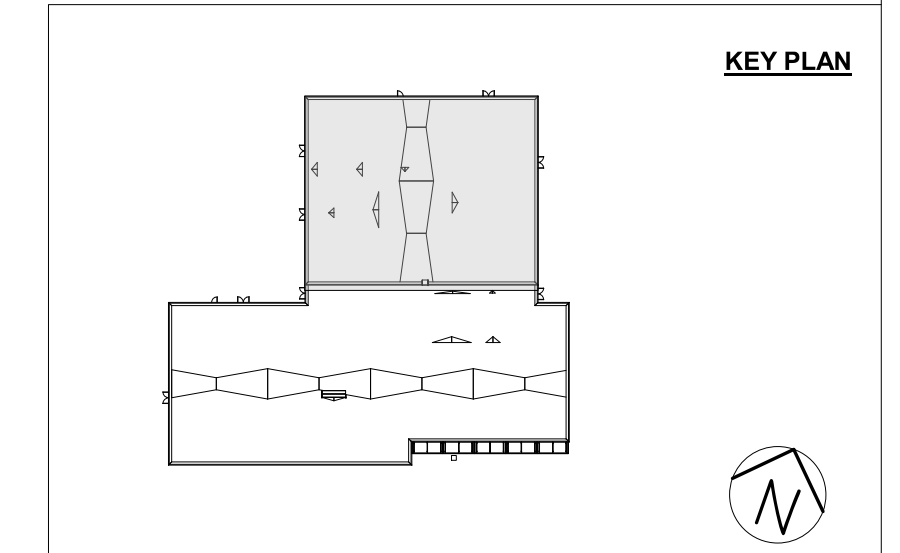
1. HYDRONIC HEATING PIPES PENETRATE ROOF TO RTU. REFER TO A-5 ROOF PLAN FOR LOCATIONS OF RTU.

**GENERAL NOTES:**

- DESIGN-BUILD CONTRACTOR IS RESPONSIBLE FOR FINAL PIPING DESIGN INCLUDING STRESS ANALYSIS, EXPANSION LOOPS, AND SUPPORT SYSTEM.
- BOILERS ARE SIZED TO PROVIDE FULL STEAM CAPACITY WITH ANY TWO BOILERS OPERATING. WHEN ONE BOILER REACHES 90% LOAD A SECOND BOILER SHALL START.
- BOILERS SHALL RUN ON NATURAL GAS AS THE PRIMARY FUEL. FUEL OIL (DIESEL) SHALL BE PROVIDED AS BACKUP FUEL.
- DIESEL POWERED ELECTRIC GENERATORS ARE SIZED TO PROVIDE FULL BACKUP POWER TO THE CAMPUS WITH TWO GENERATORS. A DAY TANK SHALL BE PROVIDED IN THE GENERATOR ROOM AND TWO FUEL OIL STORAGE TANKS ARE LOCATED OUTSIDE.
- THE NATURAL GAS POWERED ELECTRIC GENERATOR PROVIDES EMERGENCY POWER TO THE PLANT.
- THE NEW PLANT WILL INCLUDE A COMPLETE PLC-BASED CONTROL SYSTEM AS DESCRIBED IN THE BASIS OF DESIGN DOCUMENT.
- AIR COMPRESSORS PROVIDE ATOMIZING AIR FOR THE BOILER'S FUEL OIL SYSTEM AND FOR PNEUMATIC TOOLS USED FOR MAINTENANCE IN THE VEHICLE BAYS. TWO COMPRESSORS SHALL PROVIDE FULL LOAD CAPACITY (60% EACH) OF THE STEAM SYSTEM AND MAINTENANCE ACTIVITIES COMBINED.
- PROVIDE COMPRESSED AIR PIPING AS REQUIRED FOR FUEL OIL SYSTEM AND MAINTENANCE. NOT SHOWN ON THE PIPING PLANS.



**1 PARTIAL PIPING PLAN**  
1/8" = 1'-0"

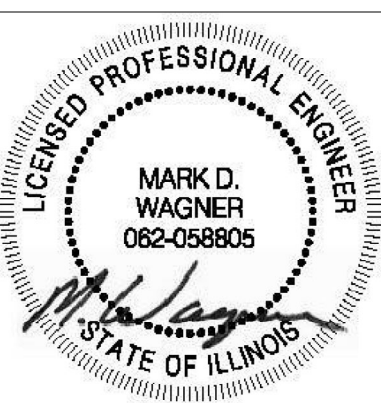


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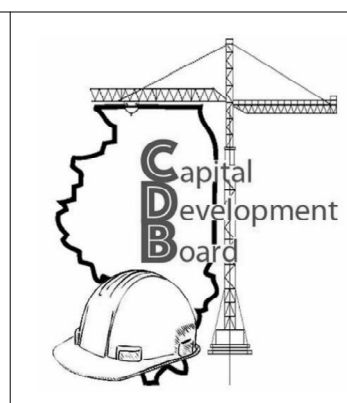
NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DATE	REMARKS

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L.J.A.	---
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PIPING PLAN – HEATING PLANT NORTH  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

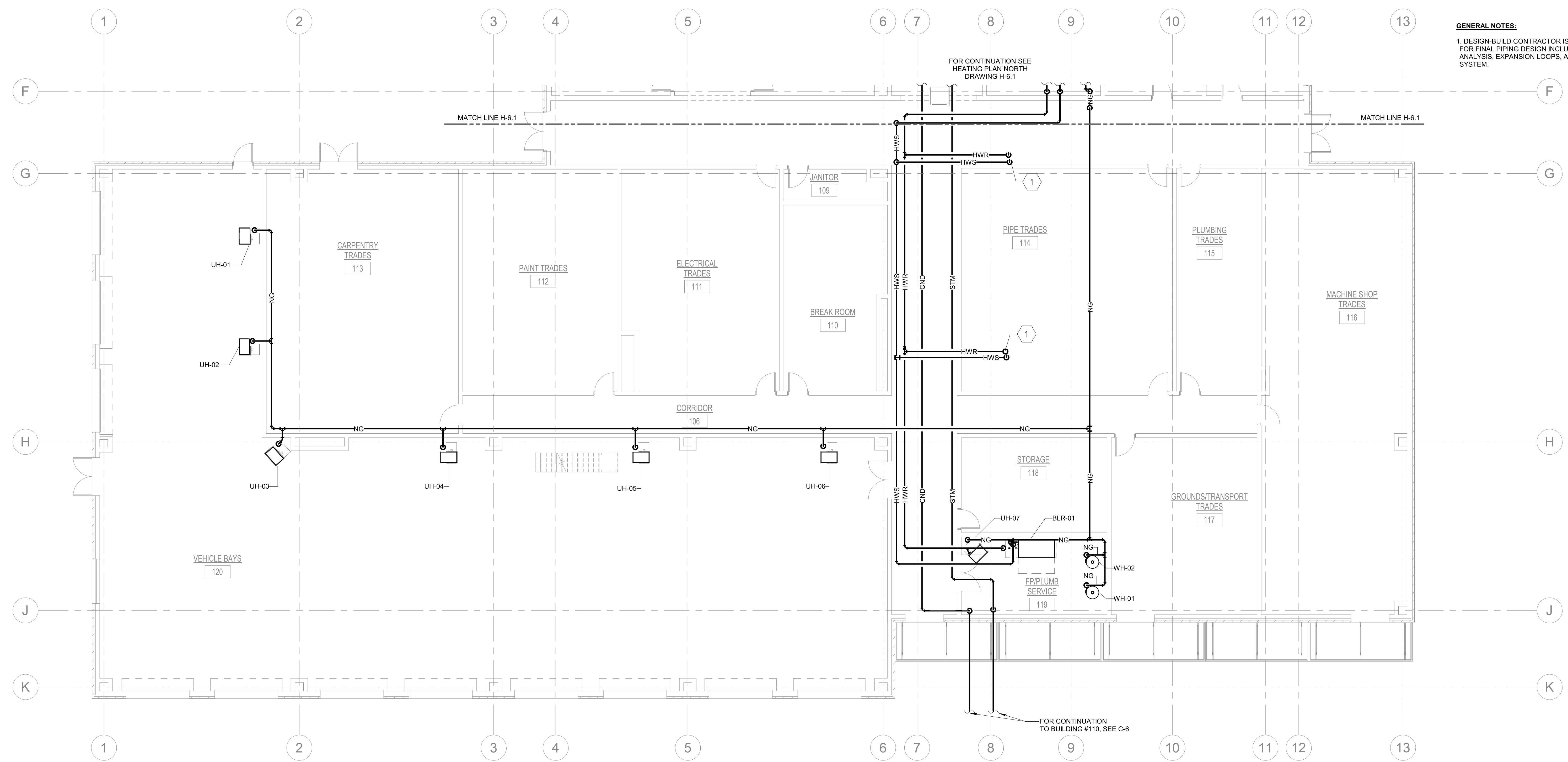
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321-055-138  
DATE  
4/22/2021  
SHEET NO.  
**H-6.1**  
36 OF 51 SHEETS

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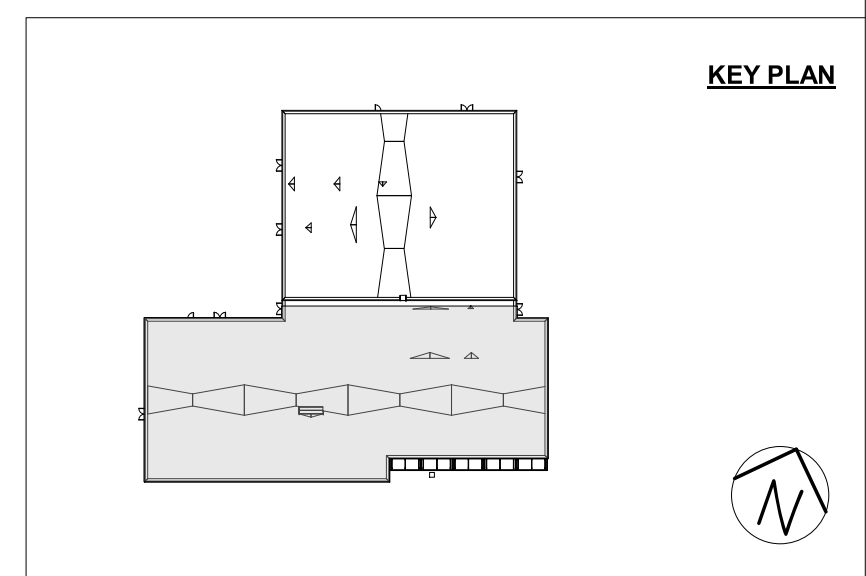


**KEYED NOTES:**  
 1. HYDRONIC HEATING PIPES PENETRATE ROOF TO RTU. REFER TO A-5 ROOF PLAN FOR LOCATIONS OF RTU.

**GENERAL NOTES:**  
 1. DESIGN-BUILD CONTRACTOR IS RESPONSIBLE FOR FINAL PIPING DESIGN INCLUDING STRESS ANALYSIS, EXPANSION LOOPS, AND SUPPORT SYSTEM.



**1 PARTIAL PIPING PLAN**  
 1/8" = 1'-0"



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 4/22/2021

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

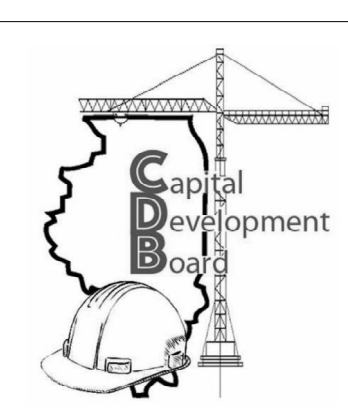
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REVISIONS		
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TRACED	APPROVED
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M.D.W.	M.D.W.



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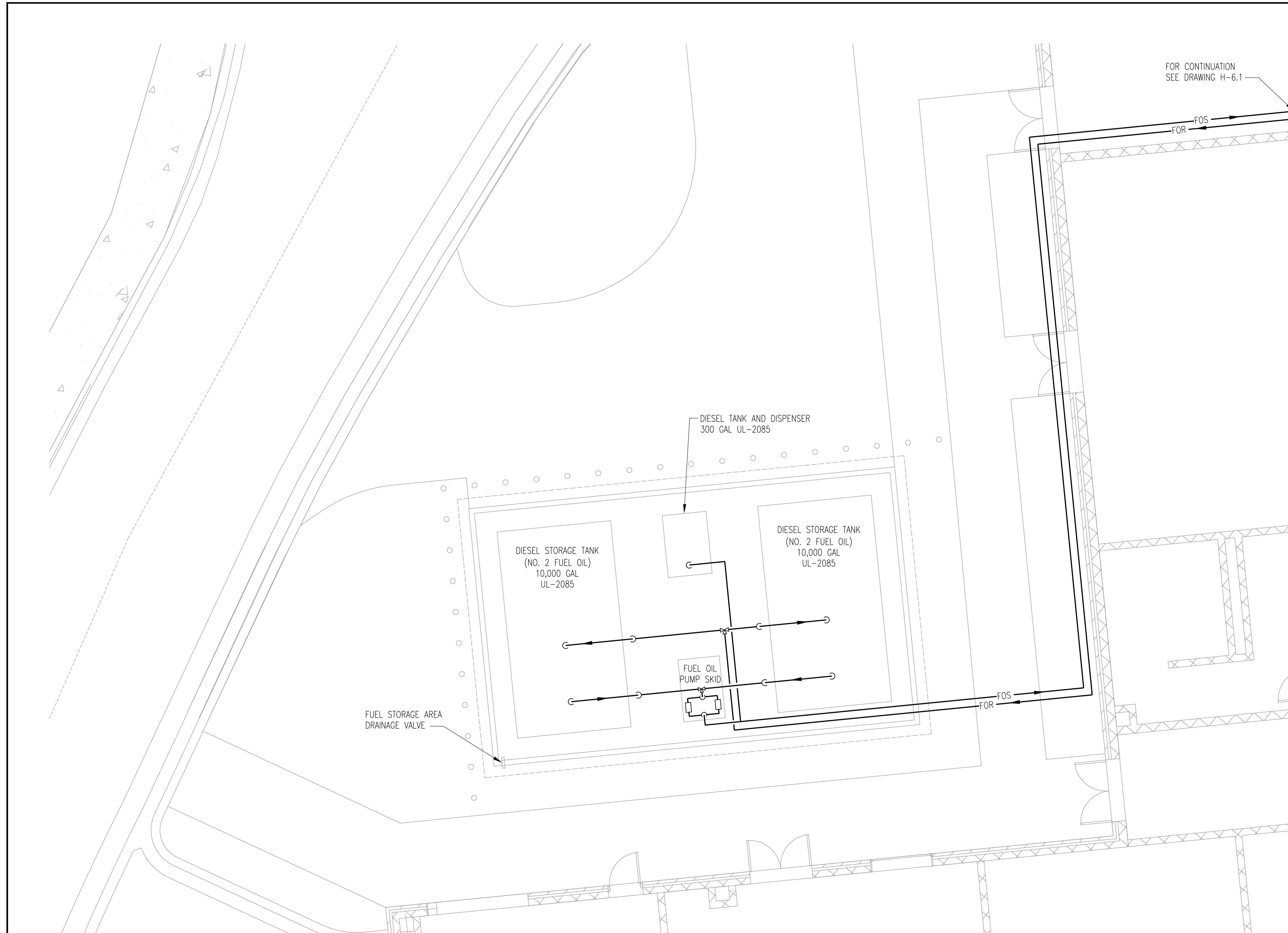
PIPING PLAN – HEATING PLANT SOUTH  
 NEW POWER PLANT  
 ELGIN MENTAL HEALTH CENTER  
 750 SOUTH STATE STREET  
 ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.	321-055-138
DATE	4/22/2021
SHEET NO.	<b>H-6.2</b>
	37 OF 51 SHEETS

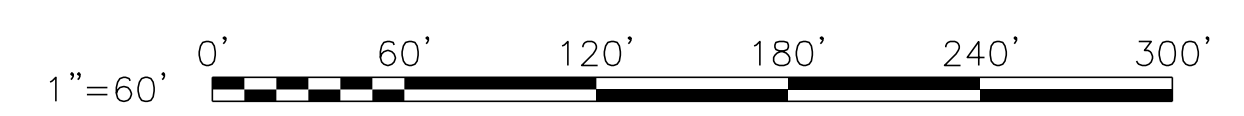


**NOTES:**

1. PROVIDE ABOVE GROUND TANKS FOLLOWING NFPA 30 AND 30A AND THE LOCAL AREA HAVING JURISDICTION INCLUDING THE ILLINOIS STATE FIRE MARSHAL.
2. EACH TANK WILL HAVE A COMBINATION GAUGING / LEVEL ALARM / LEAK DETECTION SYSTEM.
3. THE FUEL OIL PUMPS WILL HAVE A LOCAL CONTROL SYSTEM THAT WILL OPERATE IN AUTOMATIC MODE. THE CONTROL SYSTEM WILL MONITOR THE MAIN TANKS AND DAY TANK LEVELS. PROVIDE AN EMERGENCY FUELS SHUTOFF SYSTEM.
4. SIGNALS FOR ALL TANKS AND PUMPS WILL GO TO THE POWER PLANT MAIN CONTROL SYSTEM.
5. THE FUEL OIL STORAGE AREA WILL INCLUDE SECURITY FENCE WITH GATE(S) AND A CURBED TANK PAD WITH LOCKABLE 2" BALL VALVE.
6. ALL TANKS, PIPING, PLATFORMS, STAIRS/LADDERS, AND FENCE WILL INCLUDE GROUND CONNECTIONS.
7. PROVIDE PIPING WITH INSULATION AND HEAT TRACING AS REQUIRED FOR LOW TEMPERATURE OPERATION.
8. REFER TO DRAWING H-5 FOR PIPING SCHEMATIC.



**PIPING PLAN**  
NORTH SCALE: 1:60

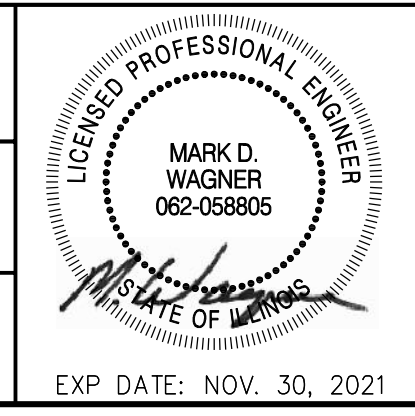


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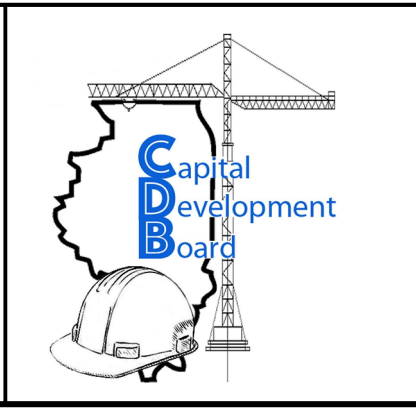
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REVISIONS		
NO.	DATE	REMARKS

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PIPING PLAN – FUEL TANKS  
 NEW POWER PLANT  
 ELGIN MENTAL HEALTH CENTER  
 ELGIN, ILLINOIS  
 COOK COUNTY, ILLINOIS

PROJECT NO. 321-055-138
DATE 4/22/2021
SHEET NO. <b>H-7</b>
38 OF (51) SHEETS

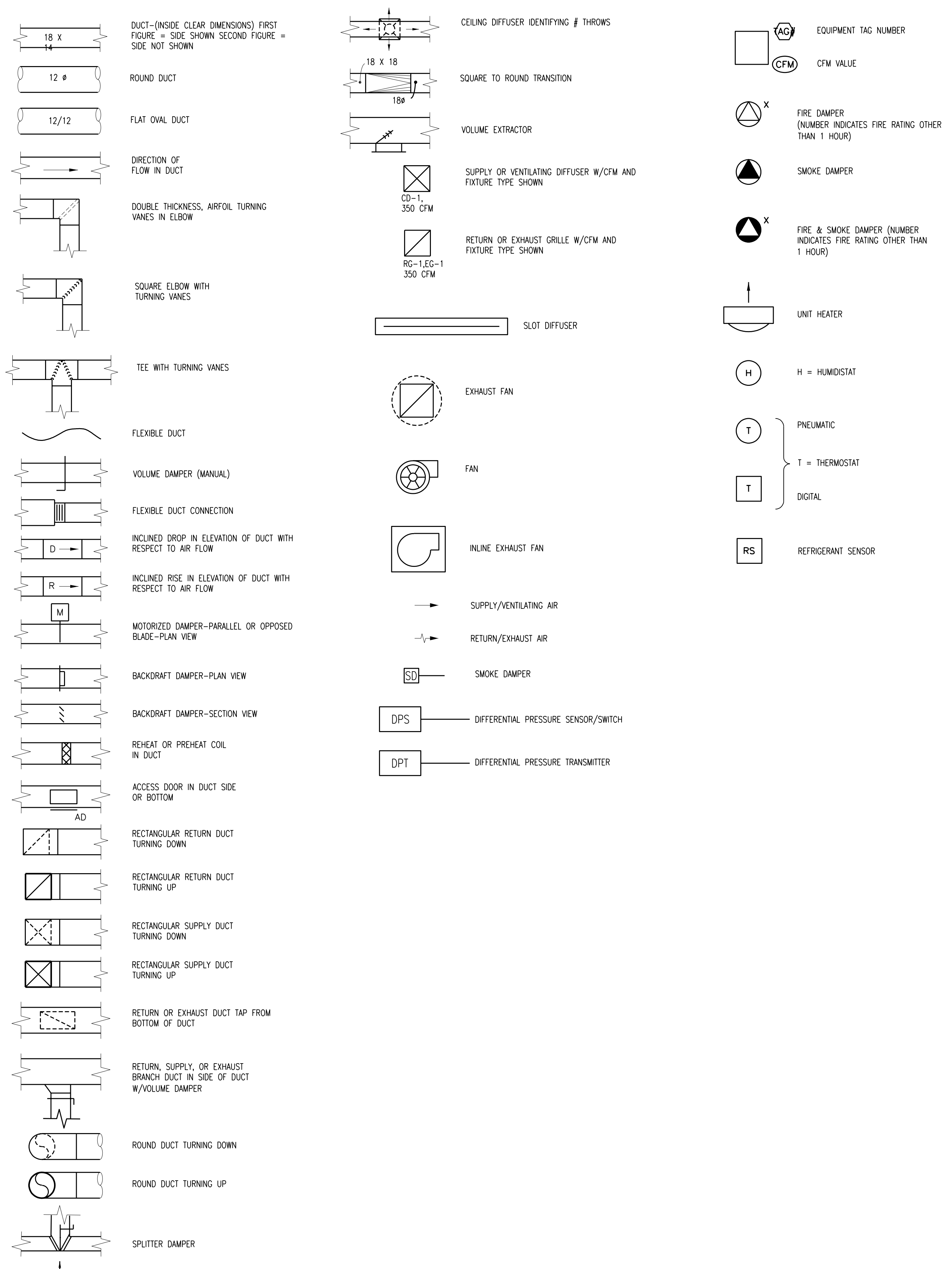
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# HVAC

# GENERAL NOTES

1. ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS LEGEND MAY NOT APPEAR ON THIS SET OF DRAWINGS.

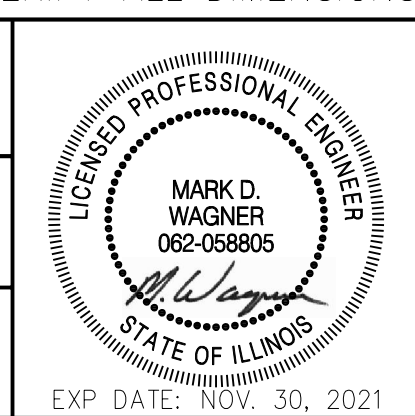


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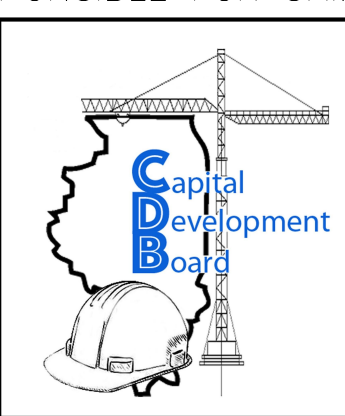
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			CHECKED	APPROVED
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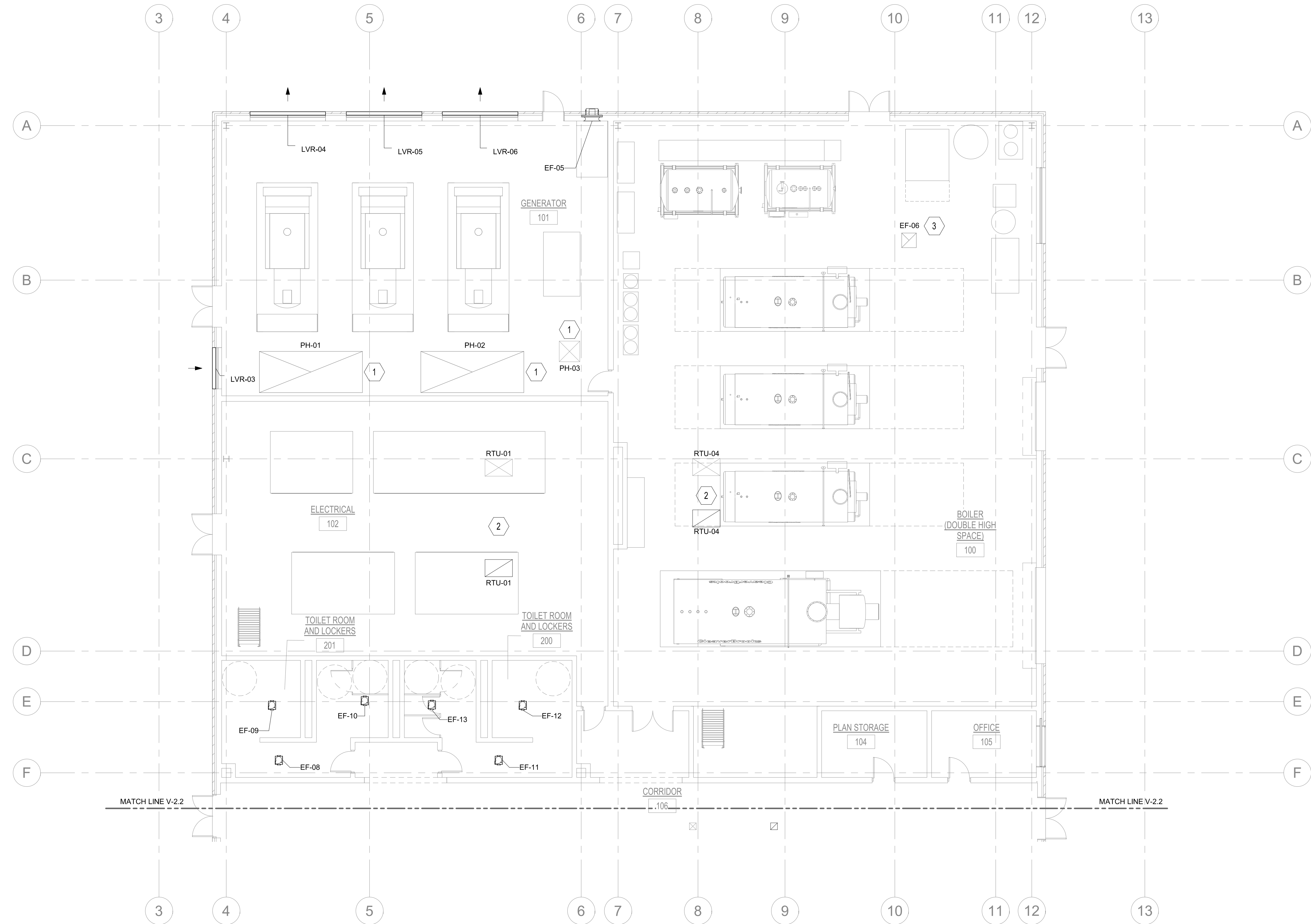
State of Illinois  
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Illinois Capital Development Board

HVAC LEGEND  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

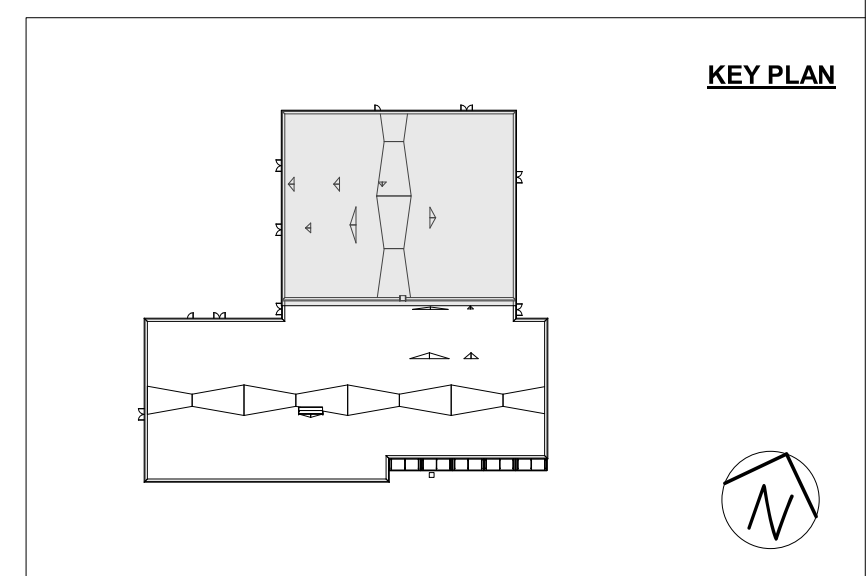
PROJECT NO.	321-055-138
DATE	4/22/2021
SHEET NO.	<b>V-1</b>
39 OF (51) SHEETS	



- KEYED NOTES:**
1. REFER TO A-5 ROOF PLAN FOR LOCATION OF ROOF MOUNTED PENTHOUSES.
  2. REFER TO A-5 ROOF PLAN FOR LOCATION OF RTU.
  3. REFER TO A-5 FLOOR PLAN FOR LOCATION OF ROOF MOUNTED EXHAUST FAN.
- GENERAL NOTES:**
1. DESIGN-BUILD CONTRACTOR TO DESIGN AND PROVIDE DUCTWORK TO MEET THE PERFORMANCE SPECIFIED IN THE BASIS OF DESIGN.



**1 PARTIAL VENTILATION PLAN**  
1/8" = 1'-0"



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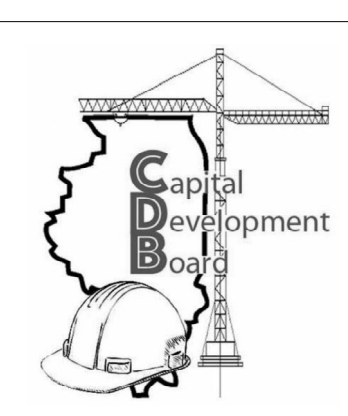
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REVISIONS		
NO.	DATE	REMARKS

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L.J.A.	---
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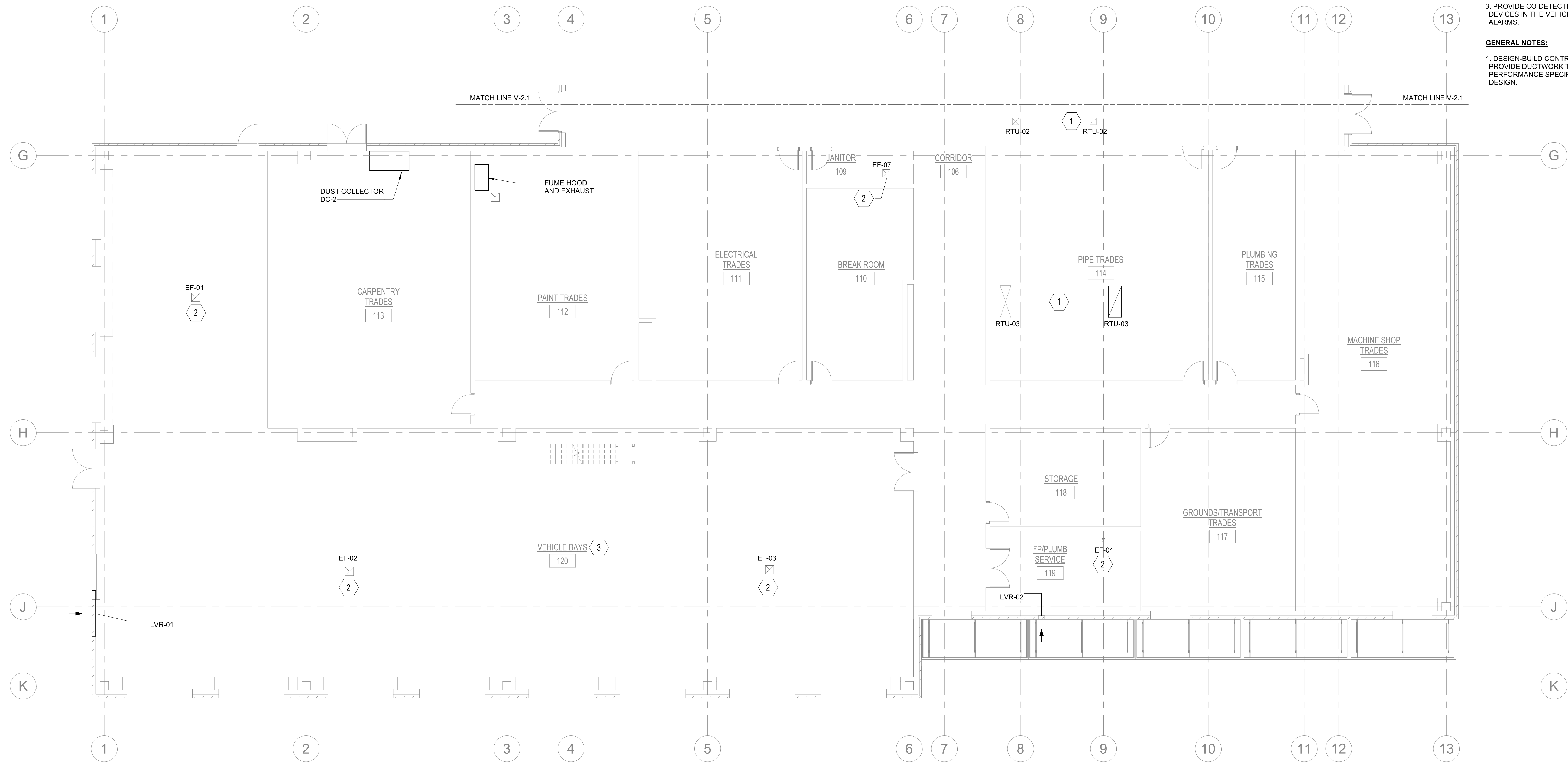
VENTILATION PLAN – FIRST FLOOR NORTH  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
DATE  
4/22/2021  
SHEET NO.  
**V-2.1**  
40 OF 51 SHEETS

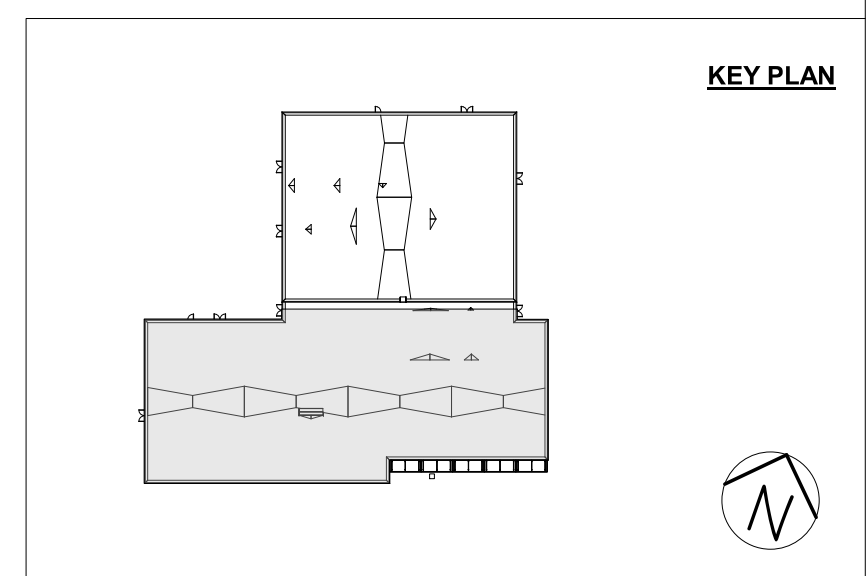
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- KEYED NOTES:**
- REFER TO A-5 ROOF PLAN FOR LOCATION OF RTU.
  - REFER TO A-5 ROOF PLAN FOR LOCATION OF ROOF MOUNTED EXHAUST FAN.
  - PROVIDE CO DETECTION AND INDICATION DEVICES IN THE VEHICLE BAYS WITH AUDIBLE ALARMS.
- GENERAL NOTES:**
- DESIGN-BUILD CONTRACTOR TO DESIGN AND PROVIDE DUCTWORK TO MEET THE PERFORMANCE SPECIFIED IN THE BASIS OF DESIGN.



**1 PARTIAL VENTILATION PLAN**  
1/8" = 1'-0"



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4/22/2021

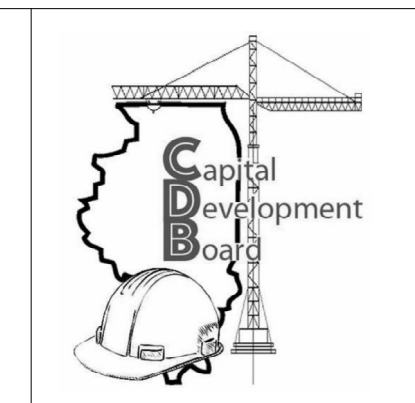
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REVISIONS		
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M.D.W.	M.D.W.



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Illinois Capital Development Board

VENTILATION PLAN – FIRST FLOOR SOUTH  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.	321-055-138
DATE	4/22/2021
SHEET NO.	<b>V-2.2</b>

41 OF 51 SHEETS

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FAN (EF) SCHEDULE					
PLAN DESIGNATION	TYPE	SERVICE	FLOW RATE (CFM)	EXTERNAL STATIC PRESSURE (IN. W.C.)	NOTES
EF-01	DOWNBLAST POWERED ROOF	120 VEHICLE BAY - EXHAUST	1,850	0.25	(1) (3) (8) (9) (10) (11)
EF-02	DOWNBLAST POWERED ROOF	120 VEHICLE BAY - EXHAUST	1,850	0.25	(1) (3) (8) (9) (10) (11)
EF-03	DOWNBLAST POWERED ROOF	120 VEHICLE BAY - EXHAUST	1,850	0.25	(1) (3) (8) (9) (10) (11)
EF-04	CENTRIFUGAL CEILING CABINET	119 FP/PLUMB SERVICE - EXHAUST	260	0.25	(1) (3) (4) (5) (6) (7) (11)
EF-05	PROPELLER WALL	101 GENERATOR ROOM - EXHAUST	220	0.25	(1) (2) (3) (11)
EF-06	DOWNBLAST POWERED ROOF	100 BOILER ROOM - EXHAUST	8,800	0.25	(1) (3) (8) (9) (10) (11)
EF-07	CENTRIFUGAL CABINET	109 JANITOR CLOSET - EXHAUST	85	0.25	(1) (3) (4) (5) (6) (7) (11)
EF-08	CENTRIFUGAL CABINET	208 MEN'S LOCKER ROOM - EXHAUST	115	0.25	(1) (3) (4) (5) (6) (7) (11)
EF-09	CENTRIFUGAL CABINET	208 MEN'S SHOWER - EXHAUST	150	0.25	(1) (3) (4) (5) (6) (7) (11)
EF-10	CENTRIFUGAL CABINET	208 MEN'S TOILET - EXHAUST	210	0.25	(1) (3) (4) (5) (6) (7) (11)
EF-11	CENTRIFUGAL CABINET	202 WOMEN'S LOCKER ROOM - EXHAUST	115	0.25	(1) (3) (4) (5) (6) (7) (11)
EF-12	CENTRIFUGAL CABINET	202 WOMEN'S SHOWER - EXHAUST	150	0.25	(1) (3) (4) (5) (6) (7) (11)
EF-13	CENTRIFUGAL CABINET	202 WOMEN'S TOILET - EXHAUST	210	0.25	(1) (3) (4) (5) (6) (7) (11)

- NOTES:
1. PROVIDE UNIT MOUNTED DISCONNECT SWITCH
  2. PROVIDE OSHA WIRE GUARD, WALL COLLAR, GRAVITY WALL SHUTTER, 45° WEATHERHOOD, SHUTTERGUARD, AND BIRD SCREEN
  3. PROVIDE UNIT MOUNTED FAN SPEED CONTROLLER FOR SYSTEM BALANCING
  4. PROVIDE HANGING VIBRATION ISOLATORS
  5. PROVIDE FLEXIBLE DUCT CONNECTOR
  6. PROVIDE WHITE GRILL FOR CEILING FAN
  7. PROVIDE WALL CAP
  8. PROVIDE ROOF CURB W/ DAMPER TRAY
  9. PROVIDE ALUMINUM BIRDSCREEN
  10. PROVIDE BACKDRAFT DAMPER
  11. DESIGN-BUILD CONTRACTOR TO CONFIRM FINAL SIZING

AIR COOLED CONDENSING UNIT (ACCU) SCHEDULE				
PLAN DESIGNATION	ASSOCIATED RTU	NOMINAL CAPACITY (TON)	REFRIGERANT	NOTES
ACCU-01	RTU-01	25	R410A	(1) (2) (3)
ACCU-02	RTU-02	5	R410A	(1) (2) (3)
ACCU-03	RTU-03	40	R410A	(1) (2) (3)

NOTES:

1. SET ON 4 IN CONCRETE BASE AS LOCATED ON PLANS
2. ACCU CAPACITY SHALL MATCH CAPACITY OF ASSOCIATED COOLING COIL
3. DESIGN-BUILD CONTRACTOR TO CONFIRM FINAL SIZING

PENTHOUSE (PH) SCHEDULE					
PLAN DESIGNATION	TYPE	SERVICE	FLOW RATE (CFM)	EXTERNAL STATIC PRESSURE (IN. W.C.)	NOTES
PH-01	GRAVITY INTAKE	101 GENERATOR ROOM	76,570	0.25	(1) (2) (3) (4)
PH-02	GRAVITY INTAKE	101 GENERATOR ROOM	76,570	0.25	(1) (2) (3) (4)
PH-03	GRAVITY INTAKE	101 GENERATOR ROOM	9,275	0.25	(1) (2) (3) (4)

NOTES:

1. PROVIDE ROOF CURB WITH DAMPER TRAY
2. PROVIDE ALUMINUM BIRDSCREEN
3. PROVIDE MOTORIZED INTAKE BACKDRAFT DAMPER
4. DESIGN-BUILD CONTRACTOR TO CONFIRM FINAL SIZING

UNIT HEATER (UH) SCHEDULE					
PLAN DESIGNATION	FUEL	MOUNTING POSITION	SUPPLY FAN FLOW RATE (CFM)	CAPACITY (MBH)	NOTES
UH-01	NATURAL GAS	WALL	935	58.0	(1) (2) (3)
UH-02	NATURAL GAS	WALL	935	58.0	(1) (2) (3)
UH-03	NATURAL GAS	WALL	935	58.0	(1) (2) (3)
UH-04	NATURAL GAS	WALL	935	58.0	(1) (2) (3)
UH-05	NATURAL GAS	WALL	935	58.0	(1) (2) (3)
UH-06	NATURAL GAS	WALL	935	58.0	(1) (2) (3)
UH-07	NATURAL GAS	WALL	260	17.5	(1) (2) (3)
UH-08	NATURAL GAS	WALL	1380	83.0	(1) (2) (3)
UH-09	NATURAL GAS	WALL	1380	83.0	(1) (2) (3)

NOTES:

1. PROVIDE UNIT MOUNTED DISCONNECT
2. PROVIDE WALL MOUNTED THERMOSTAT
3. PROVIDE SURFACE MOUNTING BRACKET
4. DESIGN-BUILD CONTRACTOR TO CONFIRM FINAL SIZING

ROOFTOP UNIT (RTU) SCHEDULE							
PLAN DESIGNATION	TYPE	SERVICE	COOLING COIL TOTAL CAPACITY (MBH)	COOLING COIL AIRFLOW (CFM)	HEATING COIL TOTAL CAPACITY (MHB)	HEATING COIL AIRFLOW (CFM)	NOTES
RTU-01	ROOFTOP UNIT	102 ELECTRICAL ROOM 212 ELECTRICAL MEZZANINE 214 TELECOM AND LV EQUIPMENT	290	7,600	95	3,800	(1) (2) (3) (4)
RTU-02	ROOFTOP UNIT	104 PLAN STORAGE 105 OFFICE 106 CORRIDOR 109 JANITOR 110 BREAKROOM 118 STORAGE	55	1,200	50	600	(1) (2) (3) (4)
RTU-03	ROOFTOP UNIT	111 ELECTRICAL TRADES 112 PAINT TRADES 113 CARPENTRY TRADES 114 PIPE TRADES 115 PLUMBING TRADES 116 MACHINE SHOP TRADES 117 GROUNDS/TRANSPORT TRADES 202 TOILETS AND LOCKERS 208 TOILETS AND LOCKERS	435	10,500	260	5,250	(1) (2) (3) (4)
RTU-04	ROOFTOP UNIT	100 BOILER ROOM	N/A	14,000	760	14,000	(2) (3) (4)

- NOTES:
1. PROVIDE UNIT CAPABLE OF USE WITH VARIABLE SPEED DRIVE
  2. PROVIDE UNIT SUITABLE FOR OUTDOOR INSTALLATION
  3. PROVIDE UNIT WITH ROOF CURB
  4. DESIGN-BUILD CONTRACTOR TO CONFIRM FINAL SIZING

LOUVER (LVR) SCHEDULE						
PLAN DESIGNATION	TYPE	SYSTEM SERVED	FLOW RATE (CFM)	MAXIMUM FREE AREA VELOCITY (ft/min)	MINIMUM FREE AREA (ft²)	NOTES
LVR-01	FIXED	120 VEHICLE BAYS	5,550	500	22.2	(1) (2)
LVR-02	OPERABLE	119 FP/PLUMB SERVICE	260	500	1.0	(1) (2)
LVR-03	FIXED	101 GENERATOR ROOM	3300	500	6.6	(1) (2)
LVR-04	OPERABLE	101 GENERATOR ROOM	73,280	1,000	73.3	(1) (2)
LVR-05	OPERABLE	101 GENERATOR ROOM	73,280	1,000	73.3	(1) (2)
LVR-06	OPERABLE	101 GENERATOR ROOM	73,280	1,000	73.3	(1) (2)

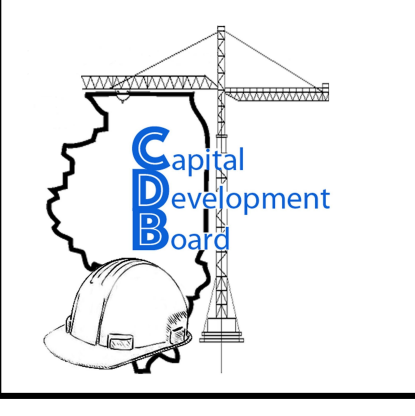
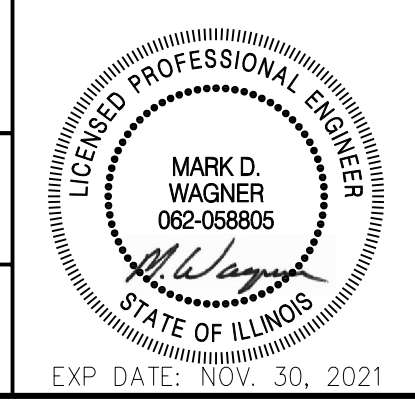
- NOTES:
1. PROVIDE ALUMINUM BIRD SCREEN
  2. PROVIDE DRAINABLE LOUVERS
  3. DESIGN-BUILD CONTRACTOR TO CONFIRM FINAL SIZING

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

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42\_V-3.DWG  
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REVISIONS			DRAWN	PREPARED
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			CHECKED	APPROVED
			M.D.W.	M.D.W.

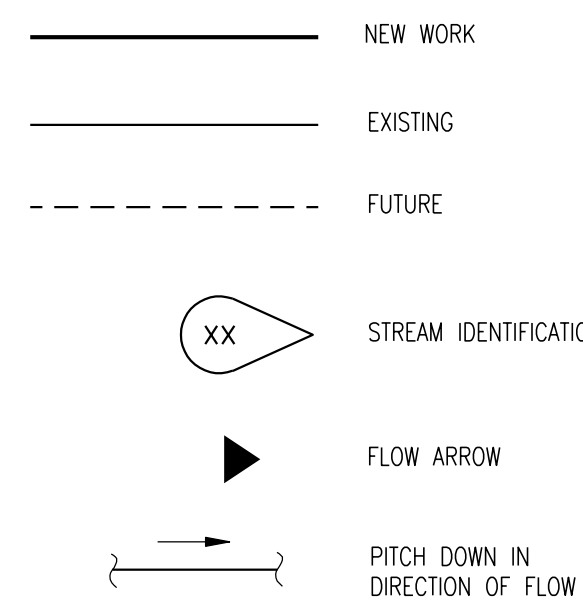


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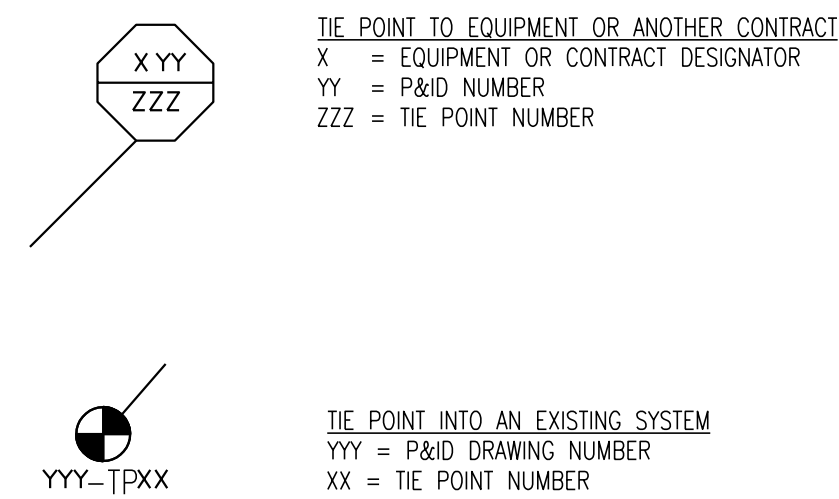
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NEW POWER PLANT ELGIN MENTAL HEALTH CENTER 750 SOUTH STATE STREET ELGIN, KANE COUNTY, ILLINOIS	DATE 4/22/2021
	SHEET NO. <b>V-3</b> 42 OF (51) SHEETS



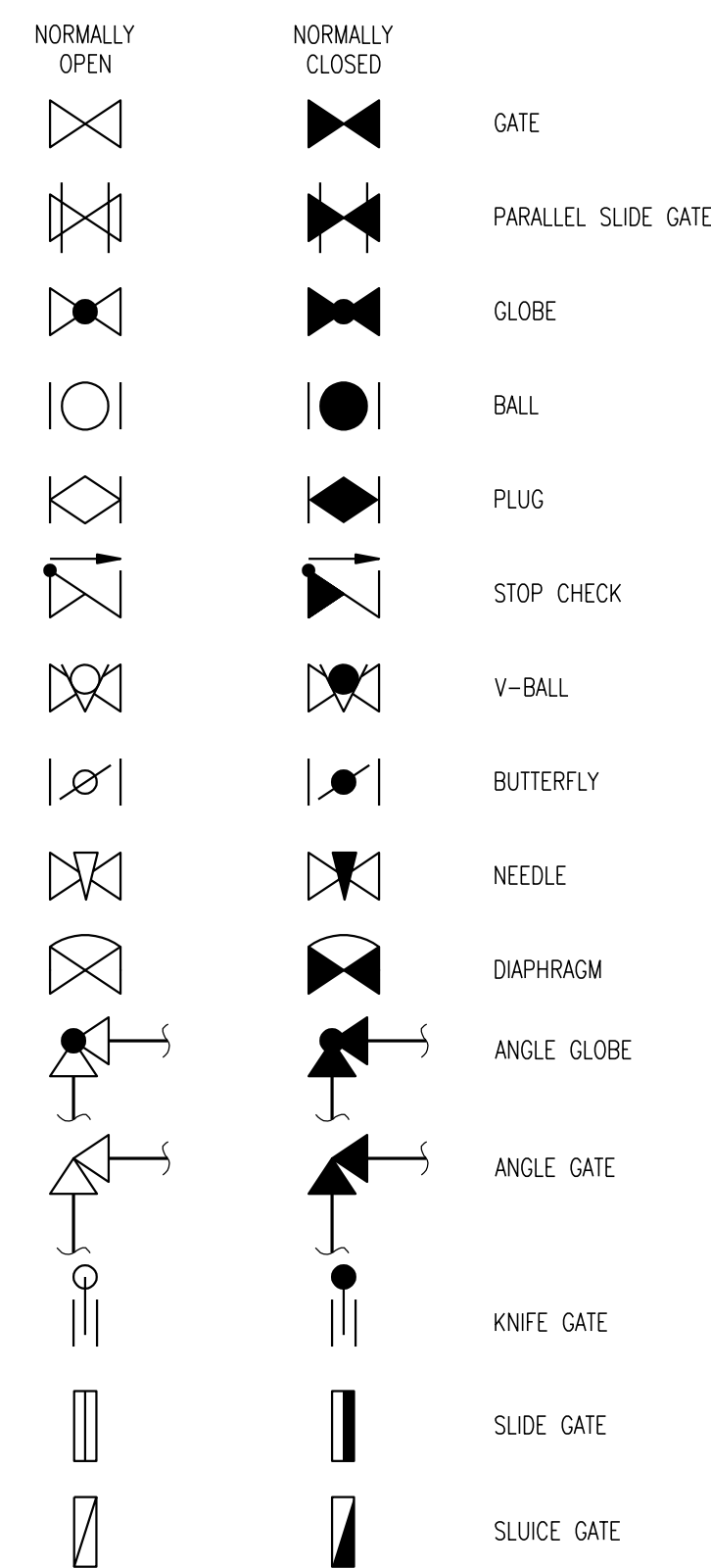
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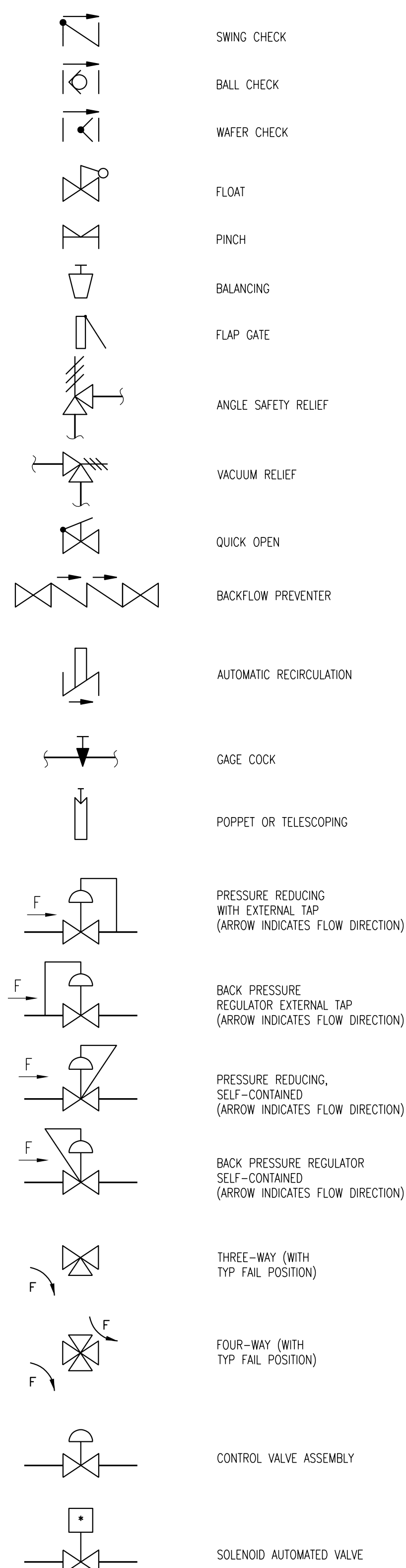
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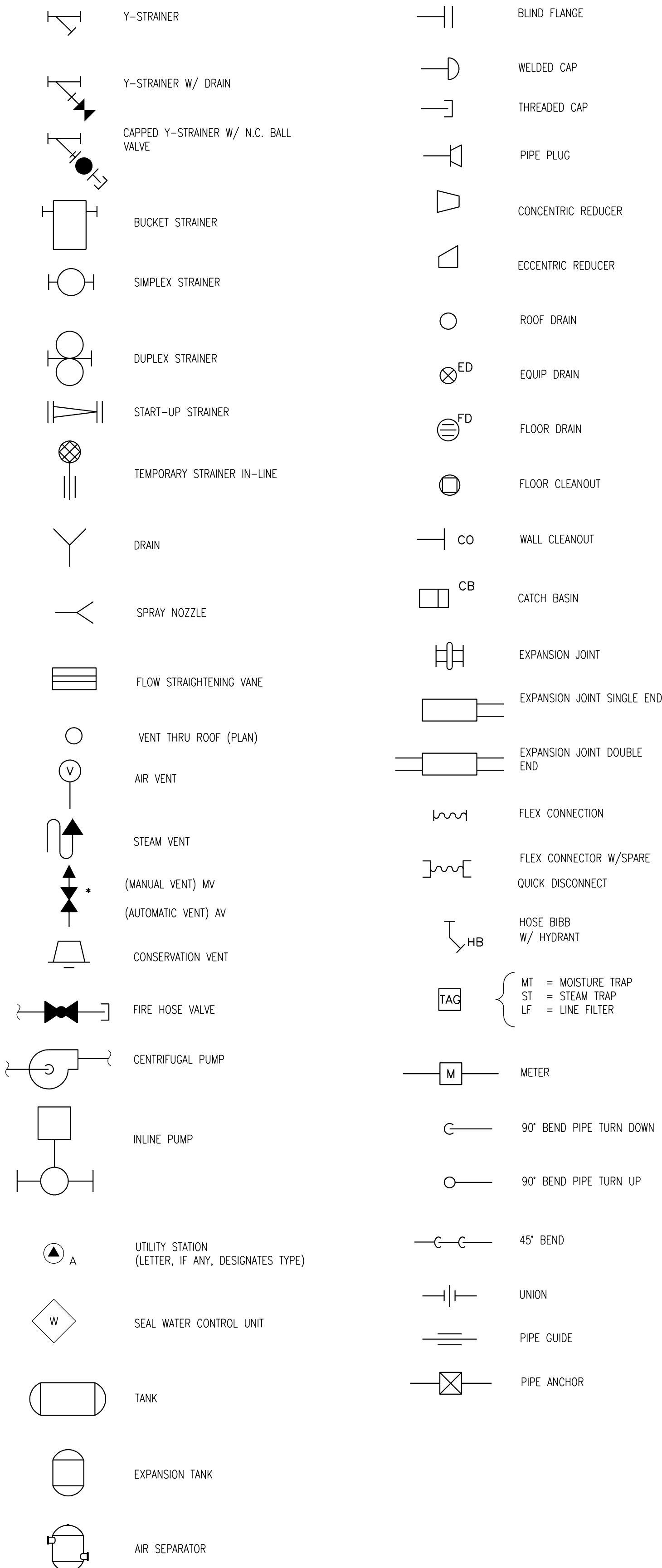
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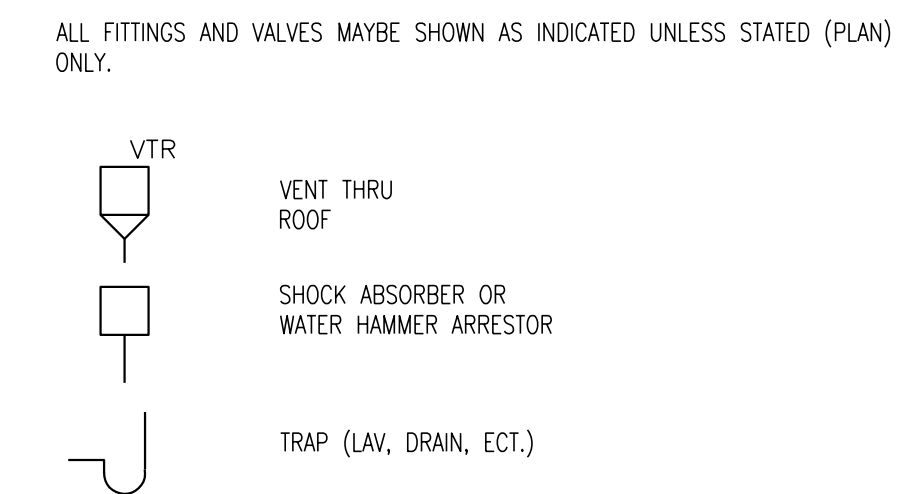
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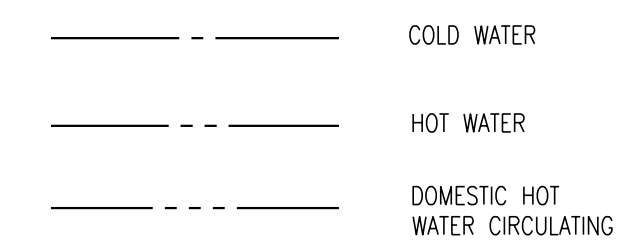
**PLUMBING/PIPING FITTINGS**



**SCHEMATIC/FITTINGS AND VALVES**



**PLUMBING LINE TYPES**



**GENERAL NOTES**

1. ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS LEGEND MAY NOT APPEAR ON THIS SET OF DRAWINGS.

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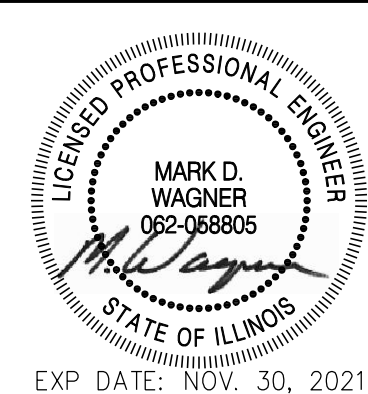
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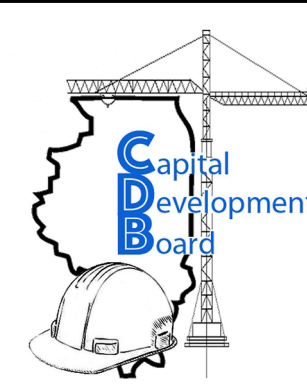
**REVISIONS**

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**PLUMBING LEGEND**

NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138

DATE  
4/22/2021

SHEET NO.

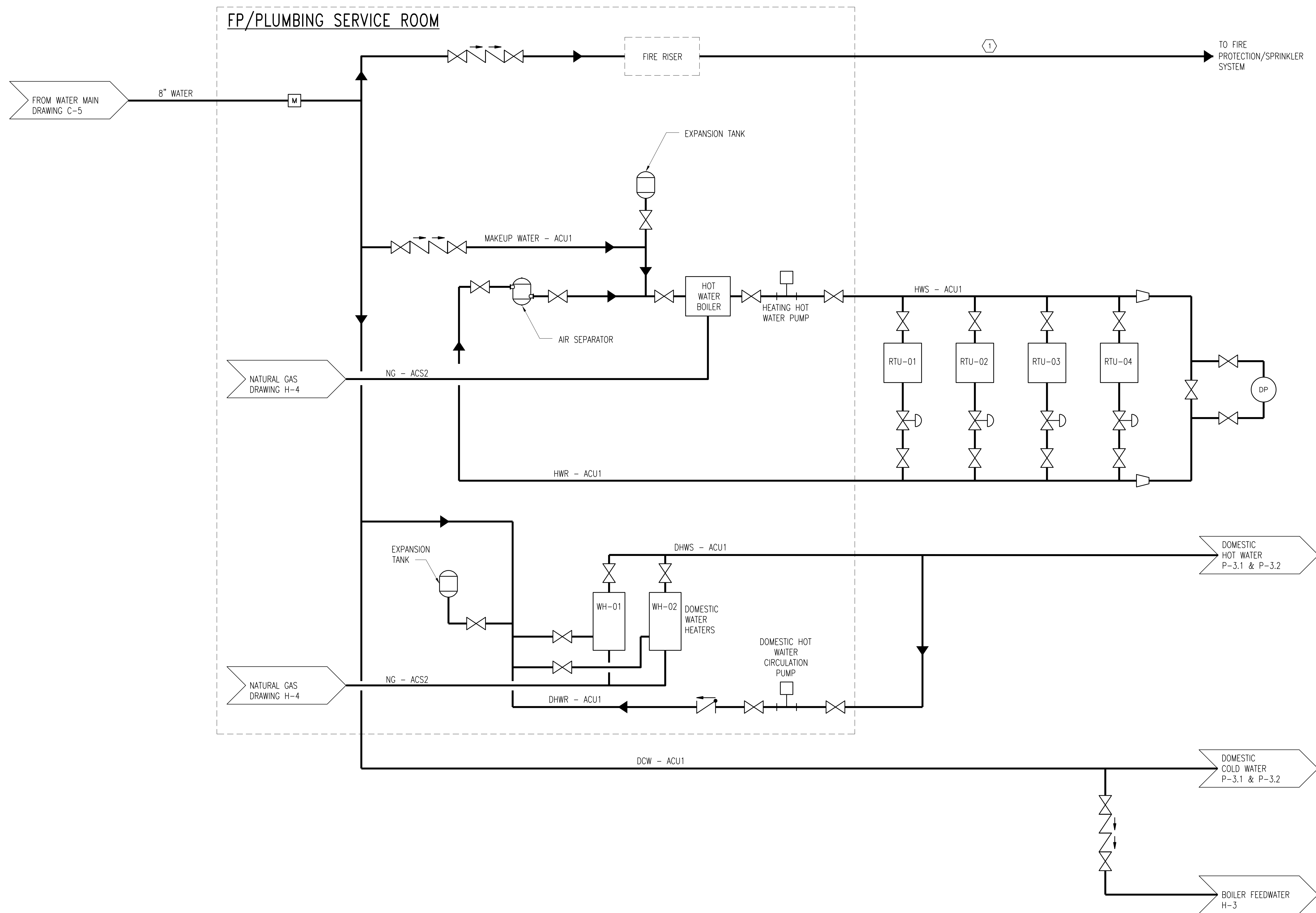
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43 OF (51) SHEETS



**KEYNOTES:**

- REFER TO PROJECT MANUAL DIVISION 21 FOR FIRE PROTECTION PIPING.

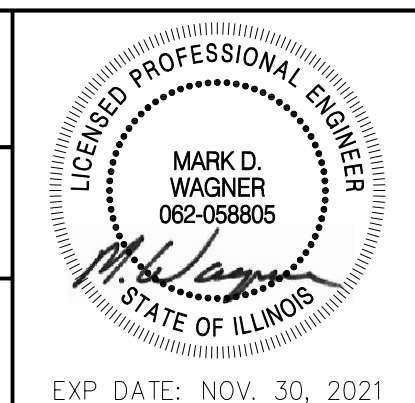


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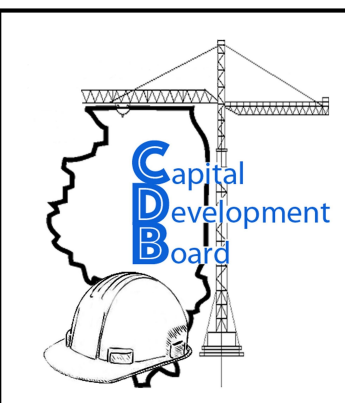
NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DATE	REMARKS

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Illinois Capital Development Board

DOMESTIC WATER SCHEMATIC  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.	321-055-138
DATE	4/22/2021
SHEET NO.	<b>P-2</b>
44 OF (51) SHEETS	

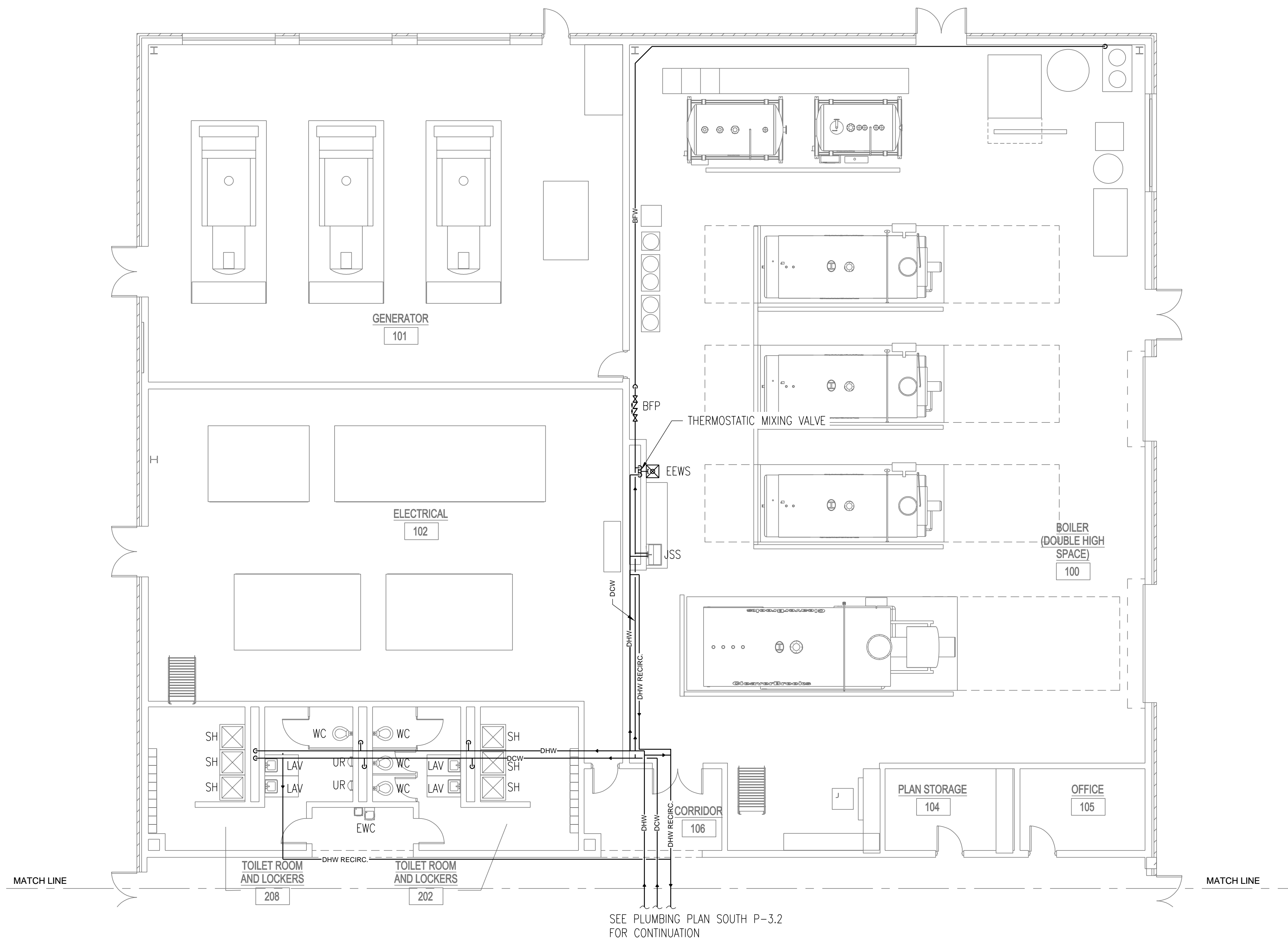
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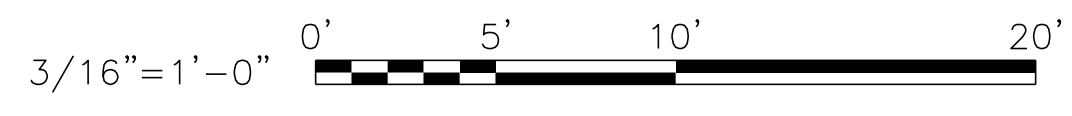
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SEE PLUMBING PLAN SOUTH P-3.2 FOR CONTINUATION

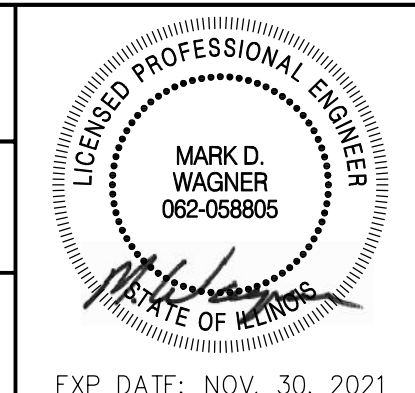
**PLUMBING PLAN**  
 NORTH SCALE: 3/16"=1'-0"



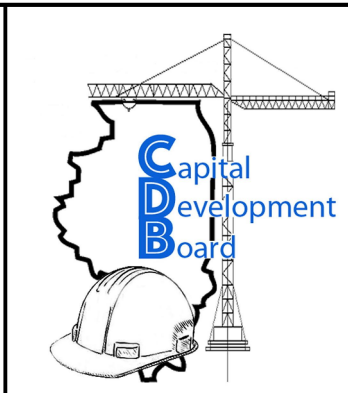
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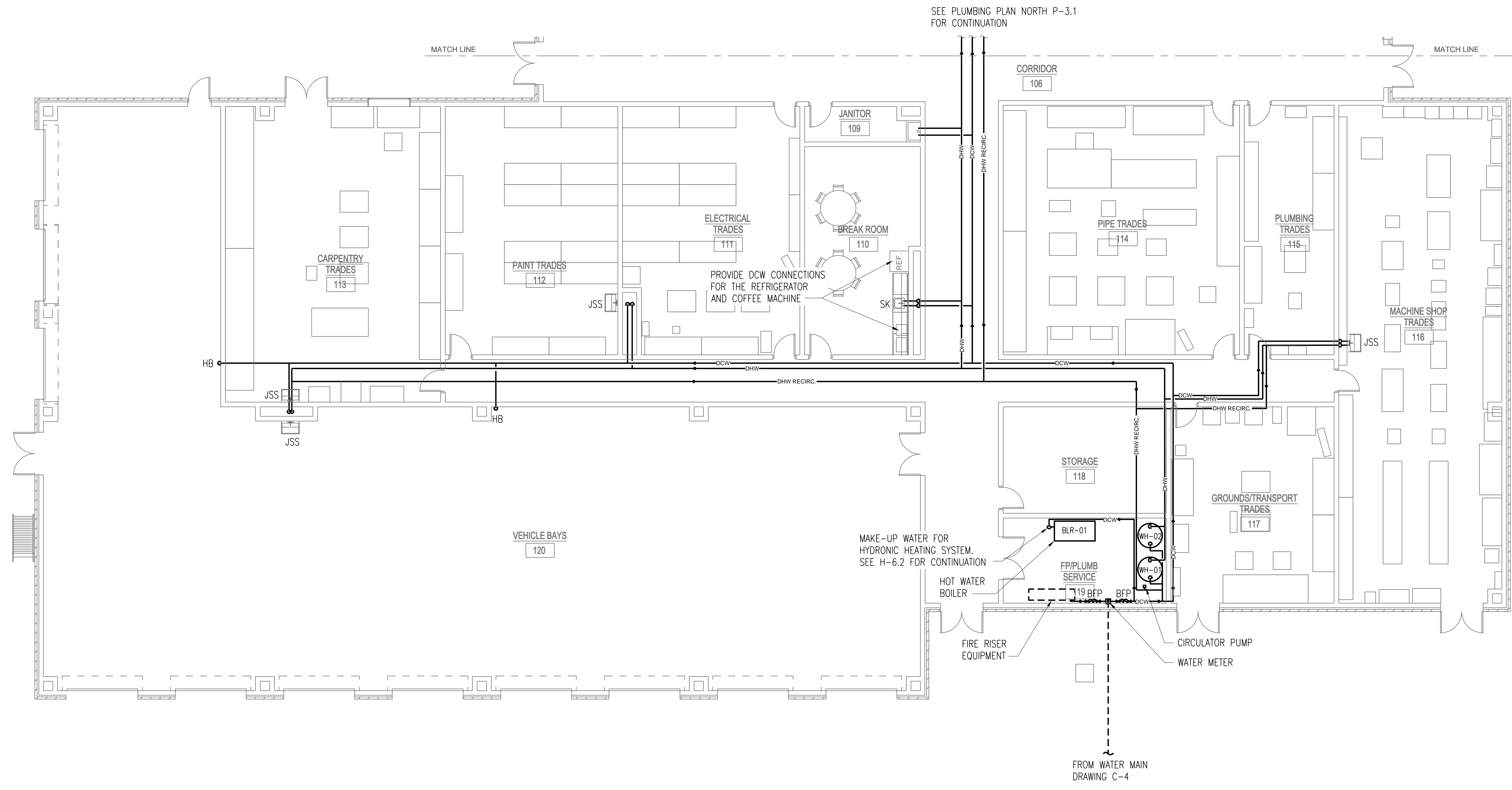


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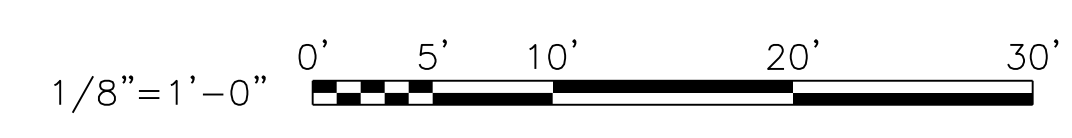
PLUMBING PLAN NORTH  
 NEW POWER PLANT  
 ELGIN MENTAL HEALTH CENTER  
 750 SOUTH STATE STREET  
 ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
 321-055-138  
 DATE  
 4/22/2021  
 SHEET NO.  
**P-3.1**  
 45 OF (51) SHEETS





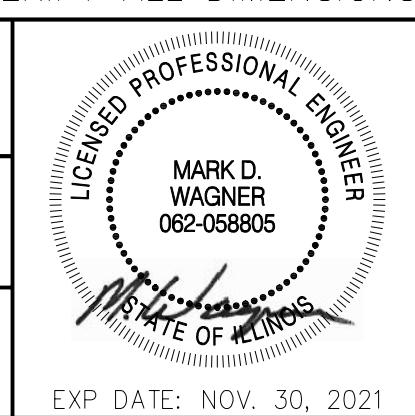
**PLUMBING PLAN**  
 NORTH SCALE: 1/8"=1'-0"



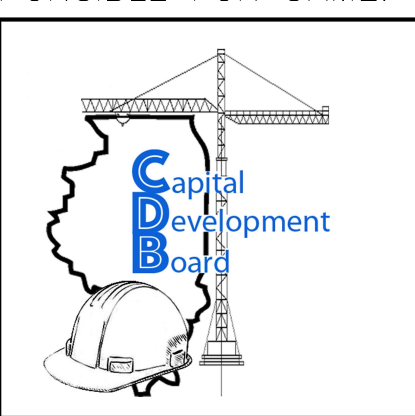
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			CHECKED	APPROVED
			M.D.W.	M.D.W.



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PLUMBING PLAN SOUTH  
 NEW POWER PLANT  
 ELGIN MENTAL HEALTH CENTER  
 750 SOUTH STATE STREET  
 ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
 321-055-138  
 DATE  
 4/22/2021  
 SHEET NO.  
**P-3.2**  
 46 OF (51) SHEETS

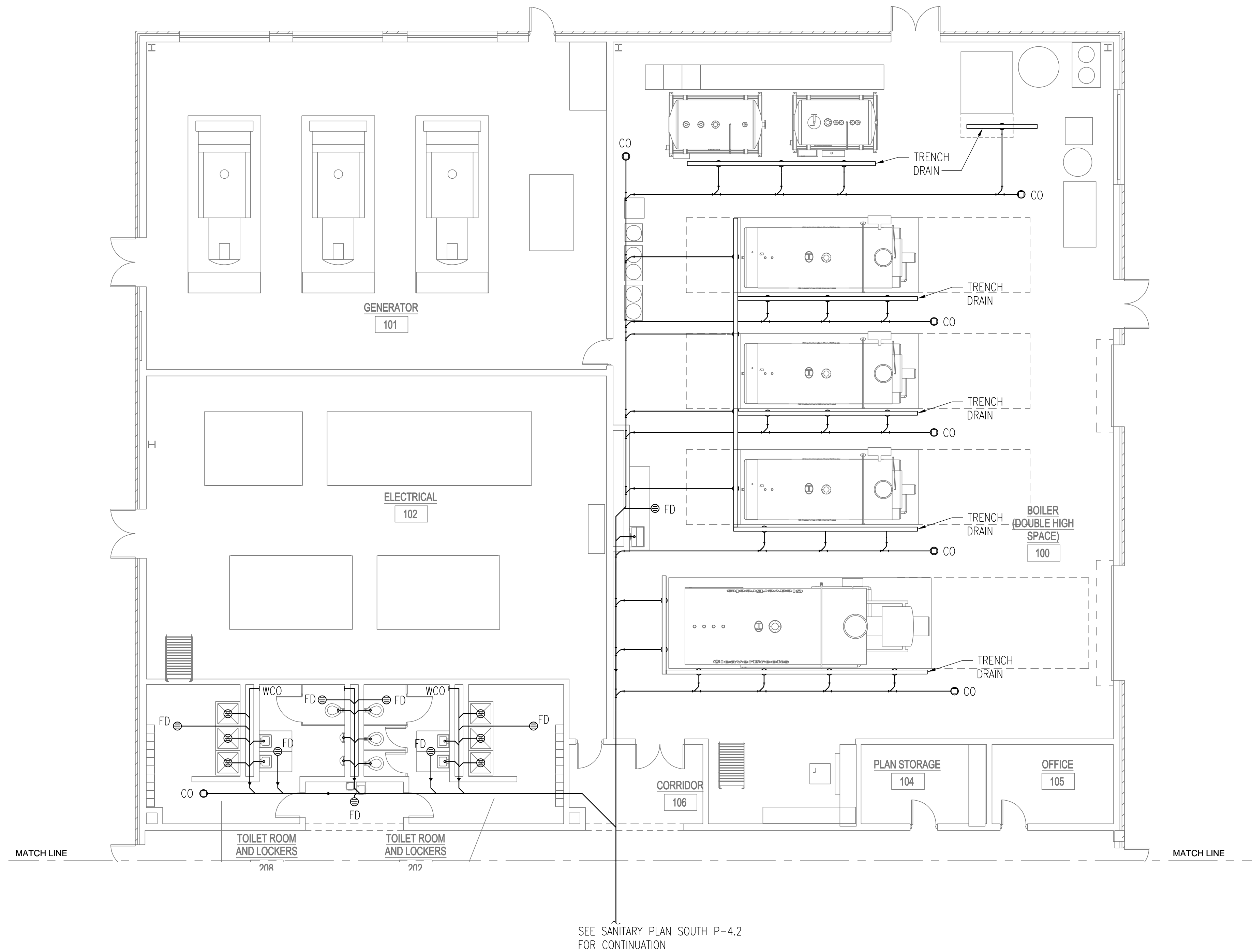
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5/5/2021 11:11 AM  
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**NOTES:**

1. SANITARY VENTS AND CLEANOUTS TO BE PROVIDED BY DESIGN-BUILD CONTRACTOR.



**SANITARY PLAN**  
 NORTH SCALE: 3/16"=1'-0"

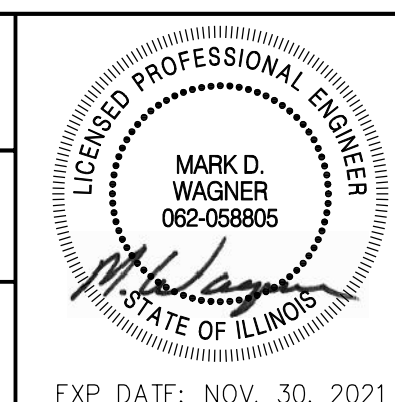


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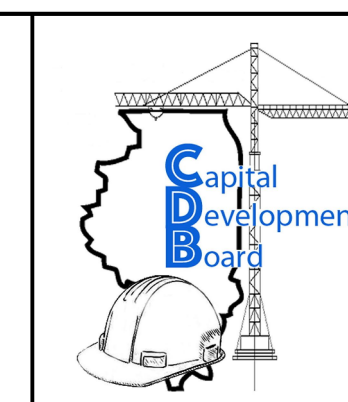
NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
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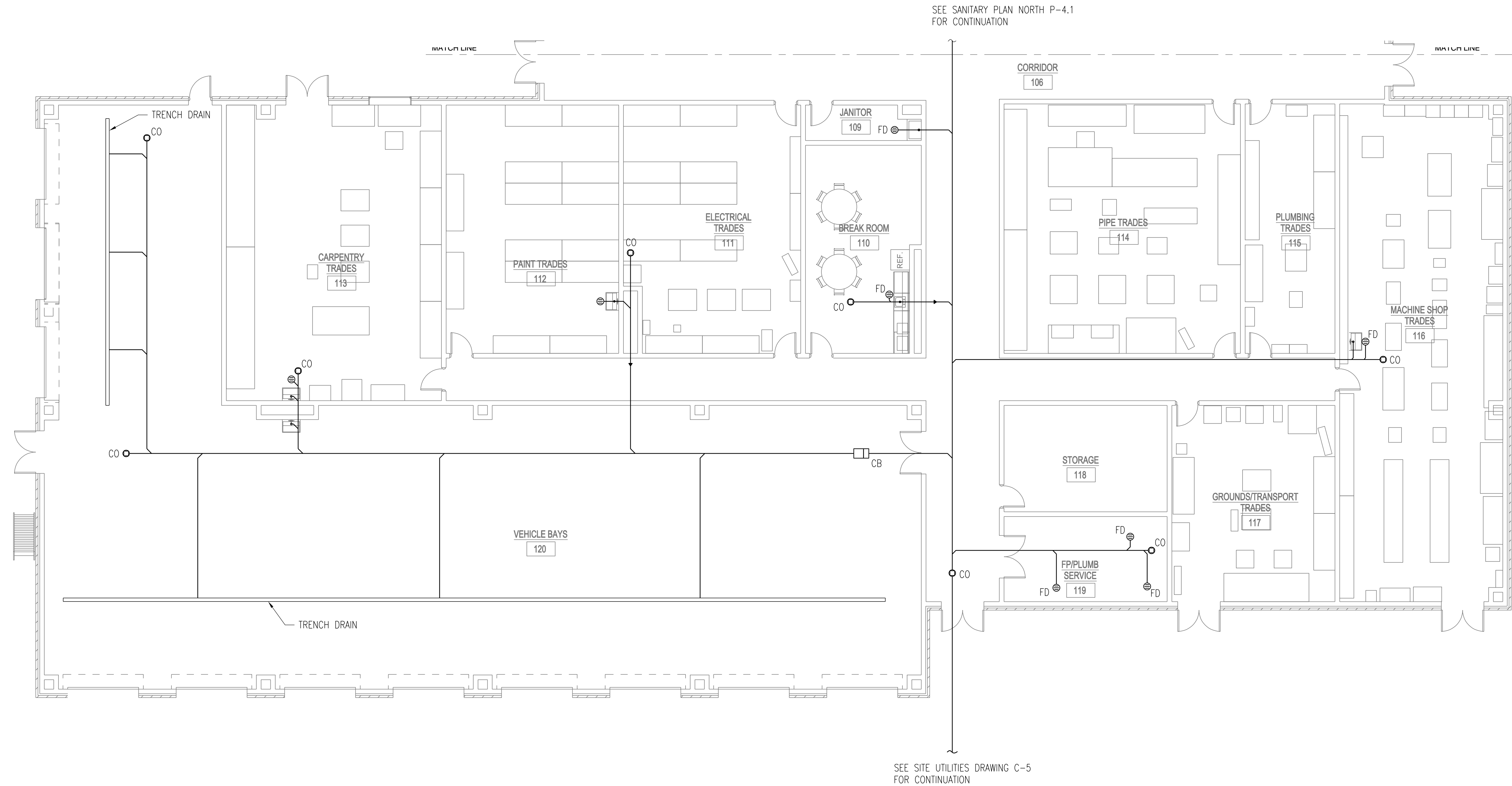
SANITARY PLAN NORTH		PROJECT NO. 321-055-138
NEW POWER PLANT ELGIN MENTAL HEALTH CENTER 750 SOUTH STATE STREET ELGIN, KANE COUNTY, ILLINOIS		DATE 4/22/2021
		SHEET NO. <b>P-4.1</b>
		47 OF (51) SHEETS

47\_P-4.1.DWG

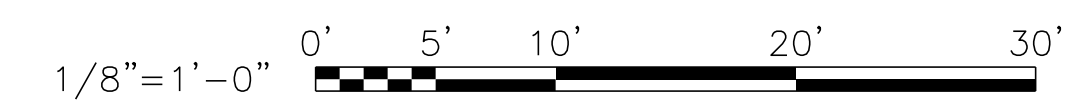
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 SCI P1 # 29390.01.00 (PW-CDB)



- NOTES:**
- SANITARY VENTS AND CLEANOUTS TO BE PROVIDED BY DESIGN-BUILD CONTRACTOR.



**SANITARY PLAN**  
 NORTH SCALE: 1/8"=1'-0"

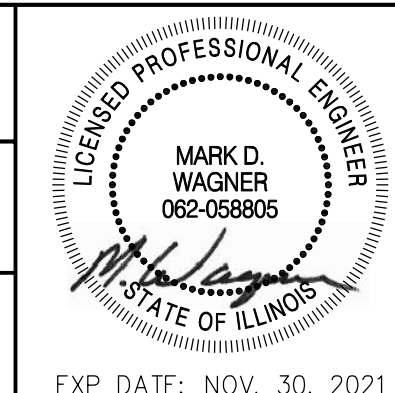


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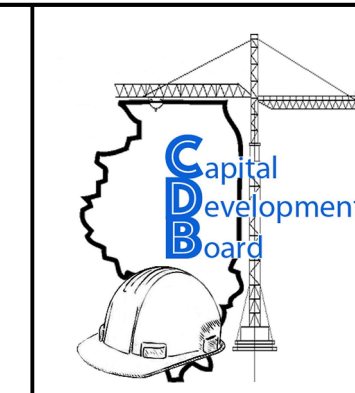
NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DATE	REMARKS

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B.K.	---
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SANITARY PLAN SOUTH		PROJECT NO.
NEW POWER PLANT ELGIN MENTAL HEALTH CENTER 750 SOUTH STATE STREET ELGIN, KANE COUNTY, ILLINOIS		321-055-138
DATE		4/22/2021
SHEET NO.		<b>P-4.2</b>
48 OF (51) SHEETS		

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PLUMBING FIXTURE SCHEDULE		
PLAN DESIGNATION	TYPE	DESCRIPTION
LAV-01	LAVATORY	WALL-HUNG, 20" x 18", WHITE VITREOUS CHINA WITH SOAP DISPENSER AND OVERFLOW
LAV-02	LAVATORY	WALL-HUNG, 20" x 18", WHITE VITREOUS CHINA WITH SOAP DISPENSER AND OVERFLOW
LAV-03	LAVATORY	WALL-HUNG, 20" x 18", WHITE VITREOUS CHINA WITH SOAP DISPENSER AND OVERFLOW
LAV-04	LAVATORY	WALL-HUNG, 20" x 18", WHITE VITREOUS CHINA WITH SOAP DISPENSER AND OVERFLOW
WC-01	WATER CLOSET	WALL MOUNTED, TOP SPUD, VITREOUS CHINA, SIPHON-JET, ELONGATED
WC-02	WATER CLOSET	WALL MOUNTED, TOP SPUD, VITREOUS CHINA, SIPHON-JET, ELONGATED
WC-03	WATER CLOSET	WALL MOUNTED, TOP SPUD, VITREOUS CHINA, SIPHON-JET, ELONGATED
WC-04	WATER CLOSET	WALL MOUNTED, TOP SPUD, VITREOUS CHINA, SIPHON-JET, ELONGATED
UR-01	URINAL	WALL-MOUNTED, WHITE VITREOUS CHINA, SIPHON JET
UR-02	URINAL	WALL-MOUNTED, WHITE VITREOUS CHINA, SIPHON JET
SH-01	SHOWER	FIELD-CONSTRUCTED
SH-02	SHOWER	FIELD-CONSTRUCTED
SH-03	SHOWER	FIELD-CONSTRUCTED, ADA-COMPLIANT, TRANSFER
SH-04	SHOWER	FIELD-CONSTRUCTED
SH-05	SHOWER	FIELD-CONSTRUCTED
SH-06	SHOWER	FIELD-CONSTRUCTED, ADA-COMPLIANT, TRANSFER
EWC-01	ELECTRIC WATER COOLER	ADA-COMPLIANT, SELF-CONTAINED, REFRIGERATED, DOUBLE-BASIN TYPE WITH SELF-CLOSING CONTROLS ON FRONT AND BOTH SIDES
EWC-02	ELECTRIC WATER COOLER	ADA-COMPLIANT, SELF-CONTAINED, REFRIGERATED, DOUBLE-BASIN TYPE WITH SELF-CLOSING CONTROLS ON FRONT AND BOTH SIDES
JSS-01	JANITORIAL SERVICE SINK	ACID-RESISTING, 22" x 18" x 12", 10" BACK ENAMELED CAST IRON SERVICE SINK WITH BLANK BACK, STAINLESS STEEL RIM GUARD, AND WALL HANGAR SUPPORTS
EEWS-01	EMERGENCY EYEWASH AND SHOWER	FREE-STANDING COMBINATION EYEWASH AND SHOWER
SK-01	SINK	SELF-RIMMING, 19" x 19", 18 GAGE STAINLESS STEEL BAR SINK.
SK-02	SINK	SELF-RIMMING, 19" x 19", 18 GAGE STAINLESS STEEL BAR SINK.
SK-03	SINK	SELF-RIMMING, 19" x 19", 18 GAGE STAINLESS STEEL BAR SINK.
SK-04	SINK	SELF-RIMMING, 19" x 19", 18 GAGE STAINLESS STEEL BAR SINK.
SK-05	SINK	SELF-RIMMING, 19" x 19", 18 GAGE STAINLESS STEEL BAR SINK.
SK-06	SINK	SELF-RIMMING, 19" x 19", 18 GAGE STAINLESS STEEL BAR SINK.

WATER HEATER (WH) SCHEDULE					
PLAN DESIGNATION	VOLUME (GALLONS)	HEATING INPUT (BTU/HR)	WATER OUTLET TEMPERATURE (°F)	RECOVERY RATE (HRS)	NOTES
WH-01	55	60,000	140	0.95	(1) (2) (3) (4) (5) (6)
WH-02	55	60,000	140	0.95	(1) (2) (3) (4) (5) (6)

NOTES:  
1. ROUTE DRAINS TO NEAREST FLOOR DRAIN  
2. PROVIDE UNIT MOUNTED DISCONNECT  
3. PROVIDE 5 YEAR WARRANTY ON TANK  
4. PROVIDE TWO (2) FULL SIZE RELIEF VALVES. SECOND RV SHALL BE INSTALLED IN DHW LINE BETWEEN WH AND ISOLATION VALVE  
5. WATER HEATER SHALL SET ON 6 IN CONCRETE EQUIPMENT BASE  
6. DESIGN-BUILD CONTRACTOR TO CONFIRM FINAL SIZING

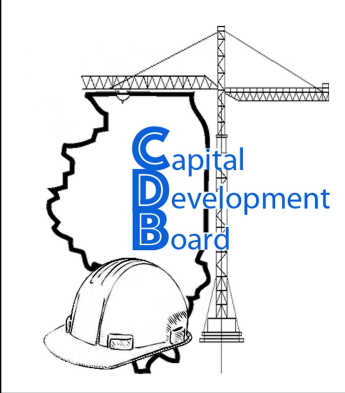
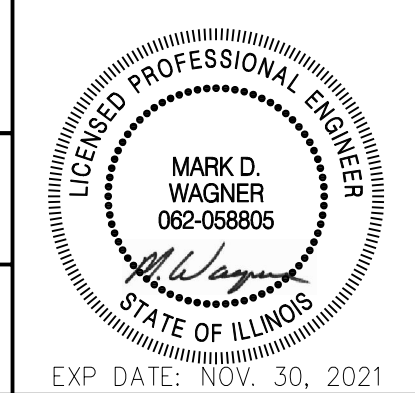
BOILER (BLR) SCHEDULE			
PLAN DESIGNATION	DESCRIPTION	HEATING OUTPUT (MBH)	NOTES
BLR-01	PROVIDE FACTORY PACKAGED UNIT COMPLETE WITH JACKET, GAS MANIFOLD, BURNER, CONTROL, PRIMARY HEAT EXCHANGER, SECONDARY HEAT EXCHANGER, CIRCULATION PUMP, AND OTHER TRIM REQUIRED FOR OPERATION.	1,155	(1) (2)

NOTES:  
1. NATURAL GAS FIRED, CONDENSING TYPE  
2. DESIGN-BUILD CONTRACTOR TO CONFIRM FINAL SIZING

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4/22/2021

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS			DRAWN	PREPARED
NO.	DATE	REMARKS	B.K.	---
			TRACED	APPROVED
			---	---
			CHECKED	APPROVED
			M.D.W.	M.D.W.



State of Illinois  
**JB PRITZKER, GOVERNOR**  
Illinois Capital Development Board

PLUMBING – SCHEDULES	PROJECT NO. 321-055-138
NEW POWER PLANT ELGIN MENTAL HEALTH CENTER 750 SOUTH STATE STREET ELGIN, KANE COUNTY, ILLINOIS	DATE 4/22/2021
	SHEET NO. <b>P-5</b> 49 OF (51) SHEETS

5/13/2021 8:48 PM SCI PWT # 29390.01.00 (PW-CDB) 49\_P-5.DWG



**NOTES:**

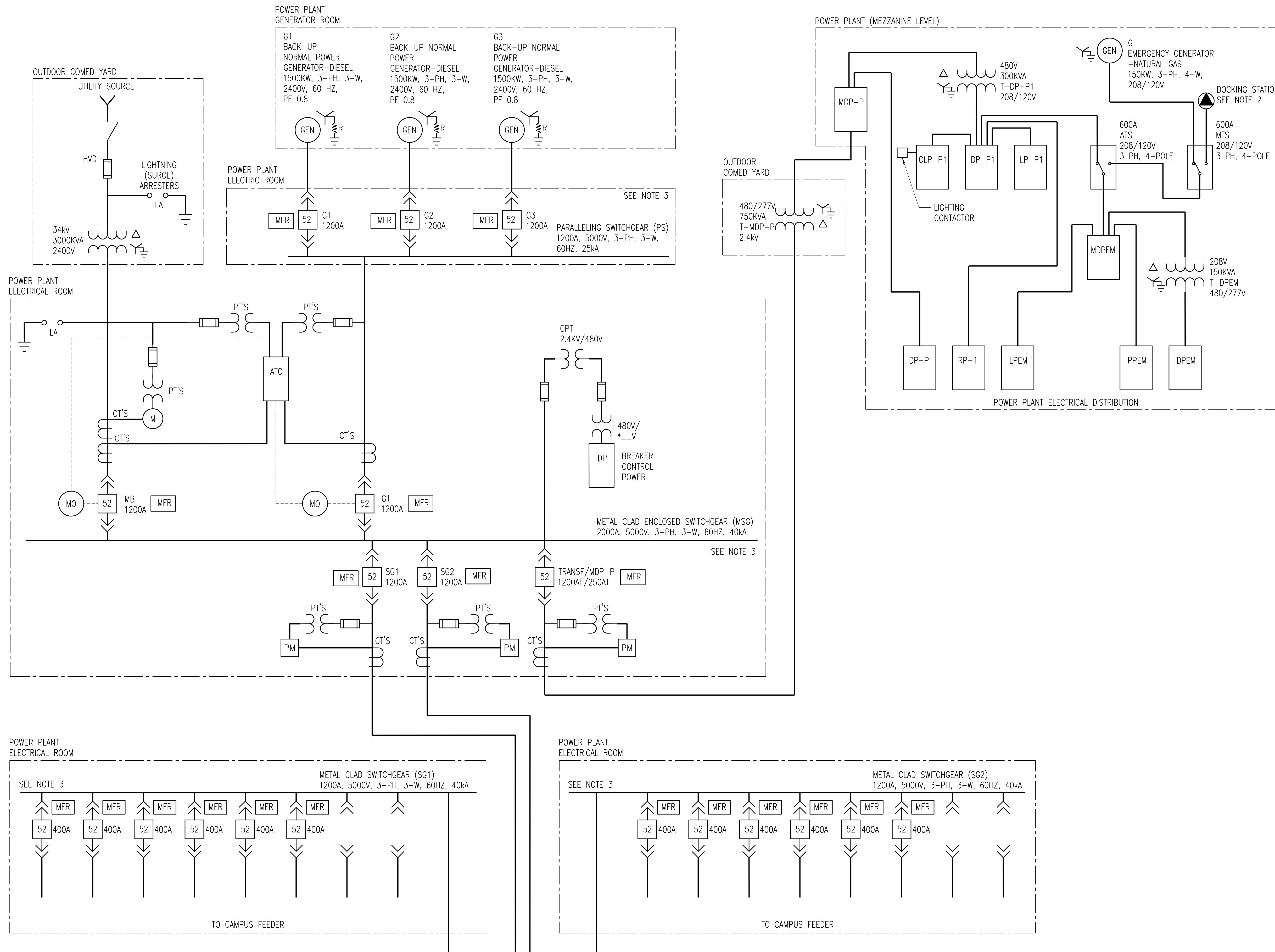
- MEDIUM VOLTAGE GEAR SHALL INCLUDE SURGE ARRESTOR FOR EVERY MEDIUM VOLTAGE BREAKERS (MAIN AND FEEDER).
- FOR EMERGENCY GENERATOR G DOCKING STATION, REFER TO SHEET.
- ALL MEDIUM VOLTAGE SWITCHGEARS SHALL INCLUDE MULTI-FUNCTIONAL RELAY (MFR) FOR MAIN AND FEEDER BREAKERS OVERCURRENT PROTECTION AND BUS DIFFERENTIAL PROTECTION.

**LEGEND:**

- G = EMERGENCY GENERATOR FOR THE POWER PLANT
- G1 = GENERATOR NO.1 POWER FEEDER
- G2 = GENERATOR NO.2 POWER FEEDER
- G3 = GENERATOR NO.3 POWER FEEDER
- ATC = AUTOMATIC SYNCHRONIZING AND TRANSFER CONTROLLER
- MB = MAIN CIRCUIT BREAKER
- MSG = MAIN SWITCHGEAR
- SG1 = DISTRIBUTION SWITCHGEAR NO.1
- SG2 = DISTRIBUTION SWITCHGEAR NO.2
- PS = PARALLELING SWITCHGEAR
- HVD = FUSED LINE DISCONNECT SECTION
- ATS = AUTOMATIC TRANSFER SWITCH

**SYMBOL:**

- = AUTOMATIC SYNCHRONIZING AND TRANSFER CONTROLLER
- = FUSE
- = LIGHTNING (SURGE) ARRESTER
- = MOTOR OPERATOR
- = CONTROL POWER TRANSFORMER
- = CURRENT TRANSFORMER
- = POTENTIAL TRANSFORMER
- = UTILITY METER
- = POWER METERING
- = MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER
- = MULTI FUNCTIONAL RELAY
- = LOW IMPEDANCE GROUNDING

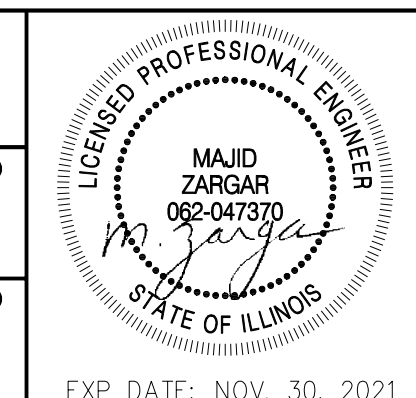


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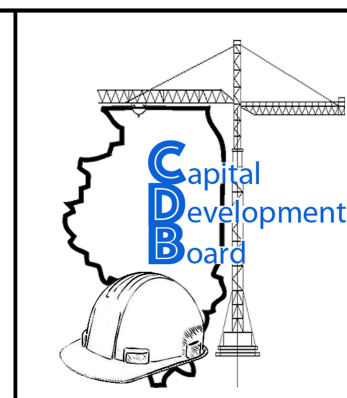
NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

5/5/2021 11:13 AM SCI PWT # 29390.01.00 (PW-CDB) 50\_E-1.DWG

REVISIONS			DRAWN	PREPARED
NO.	DATE	REMARKS	B.K.	---
			TRACED	APPROVED
			CHECKED	APPROVED
			M.D.W.	M.D.W.



**Stanley Consultants INC.**  
8501 West Higgins Road, Suite 730, Chicago, Illinois 60631-2801  
www.stanleyconsultants.com  
Illinois Firm Registration No.: 184-001533



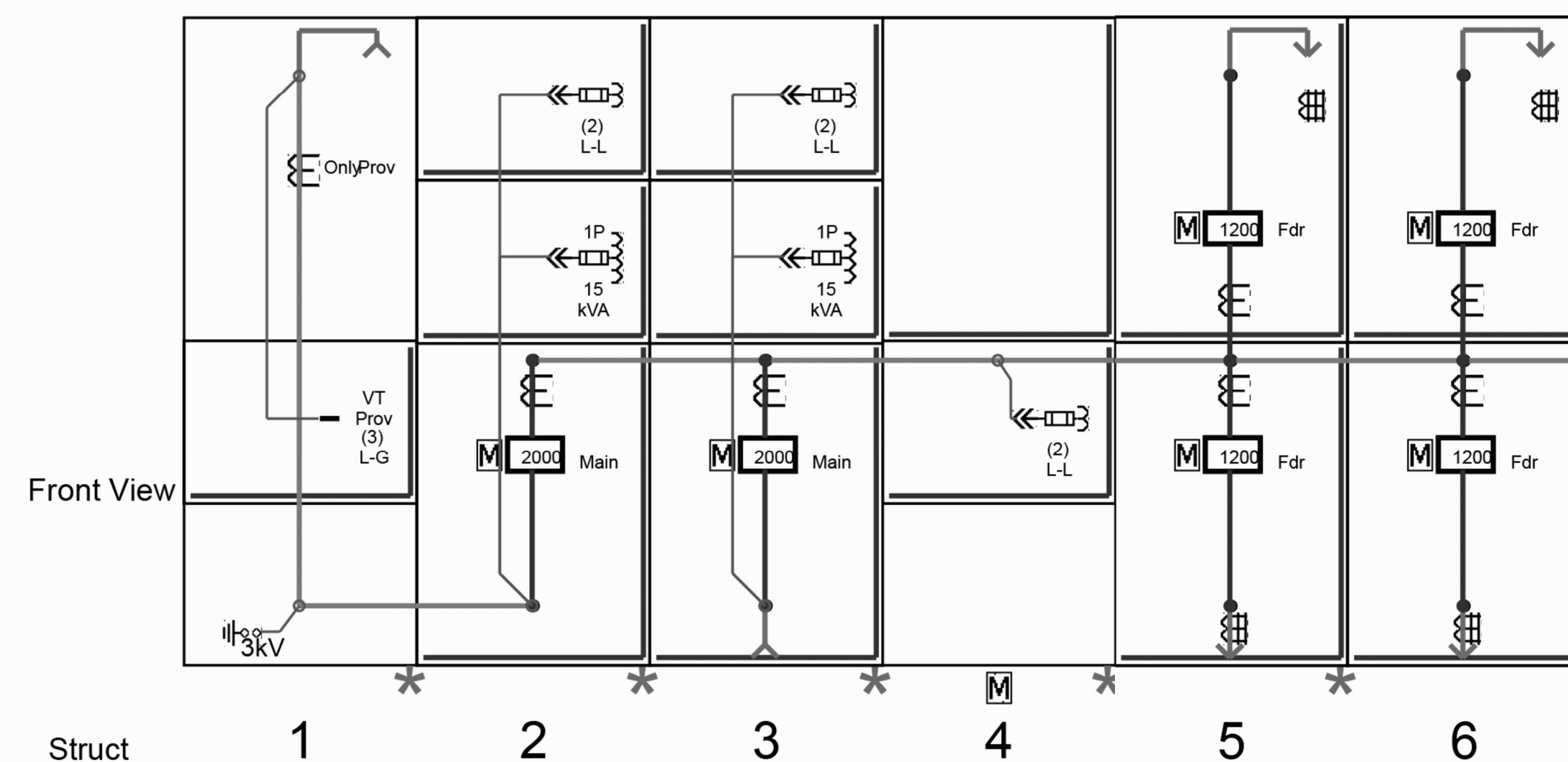
State of Illinois  
**JB PRITZKER, GOVERNOR**  
Illinois Capital Development Board

ELECTRICAL - ONE-LINE DIAGRAM		PROJECT NO. 321-055-138
NEW POWER PLANT ELGIN MENTAL HEALTH CENTER 750 SOUTH STATE STREET ELGIN, KANE COUNTY, ILLINOIS		DATE 4/22/2021
		SHEET NO. <b>E-1</b>
		50 OF (51) SHEETS

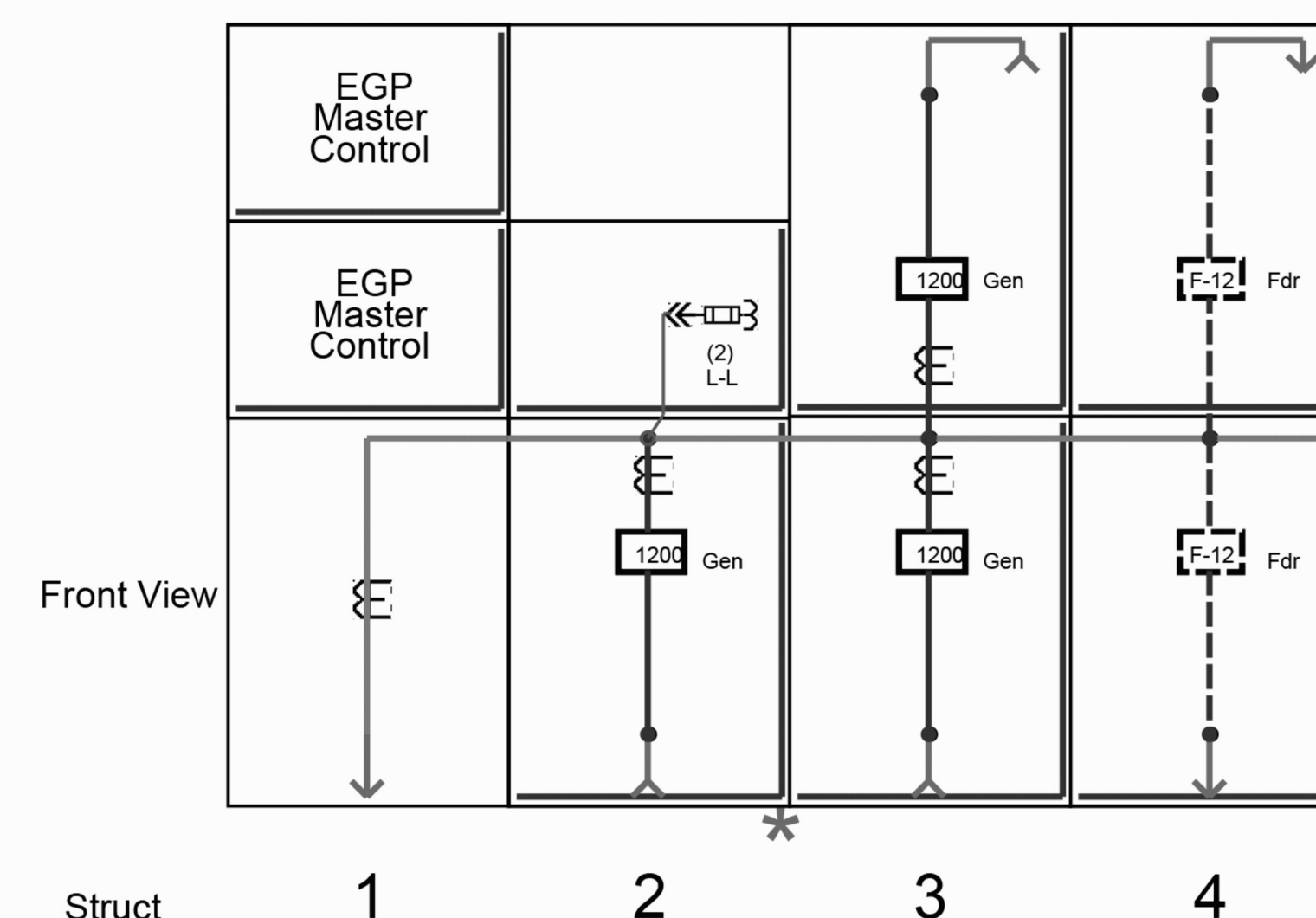


**NOTES:**

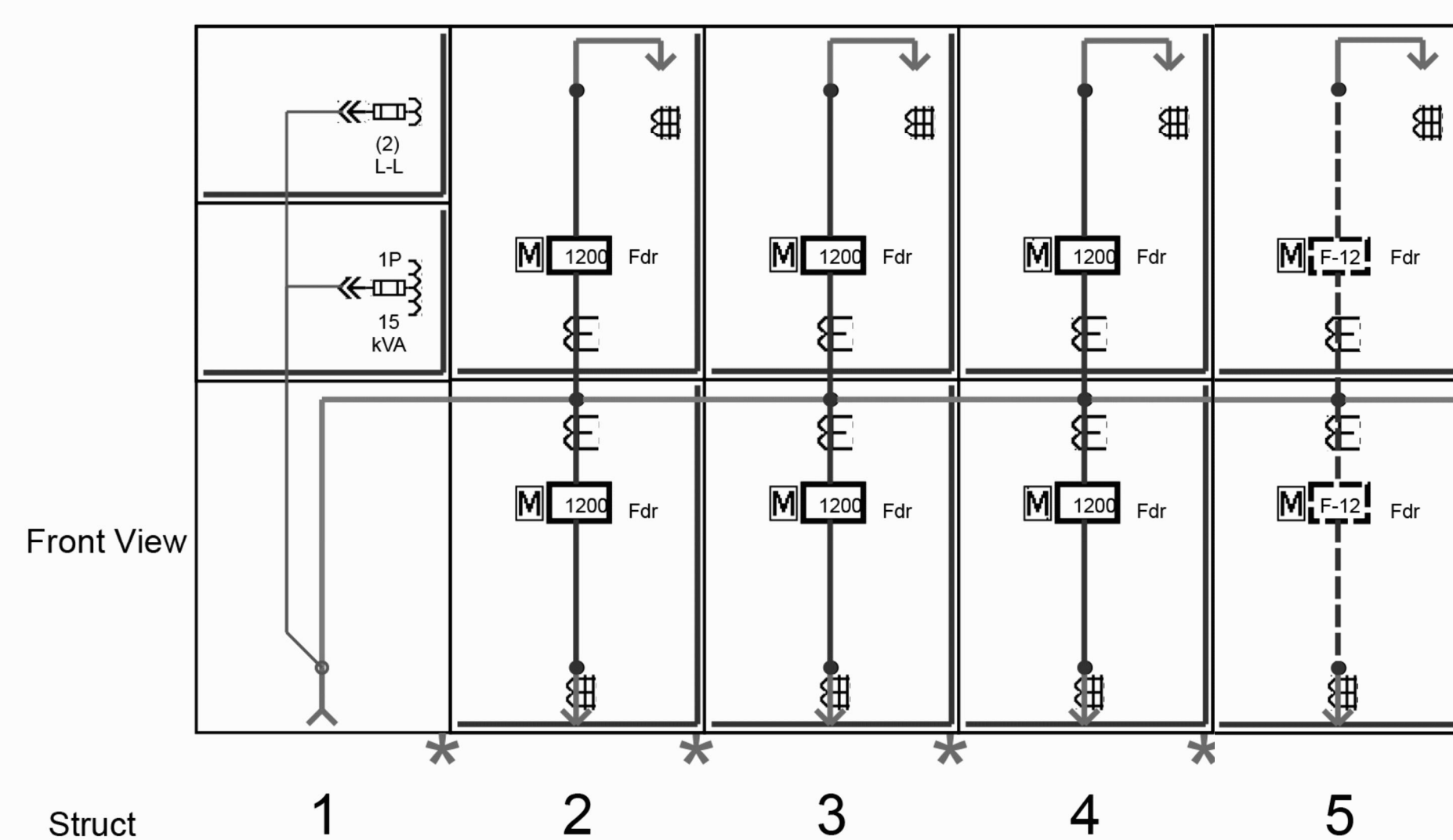
- REFER TO SHEET E-1 FOR VOLTAGE, CONTINUOUS CURRENT AND SHORT CIRCUIT CURRENT RATINGS.



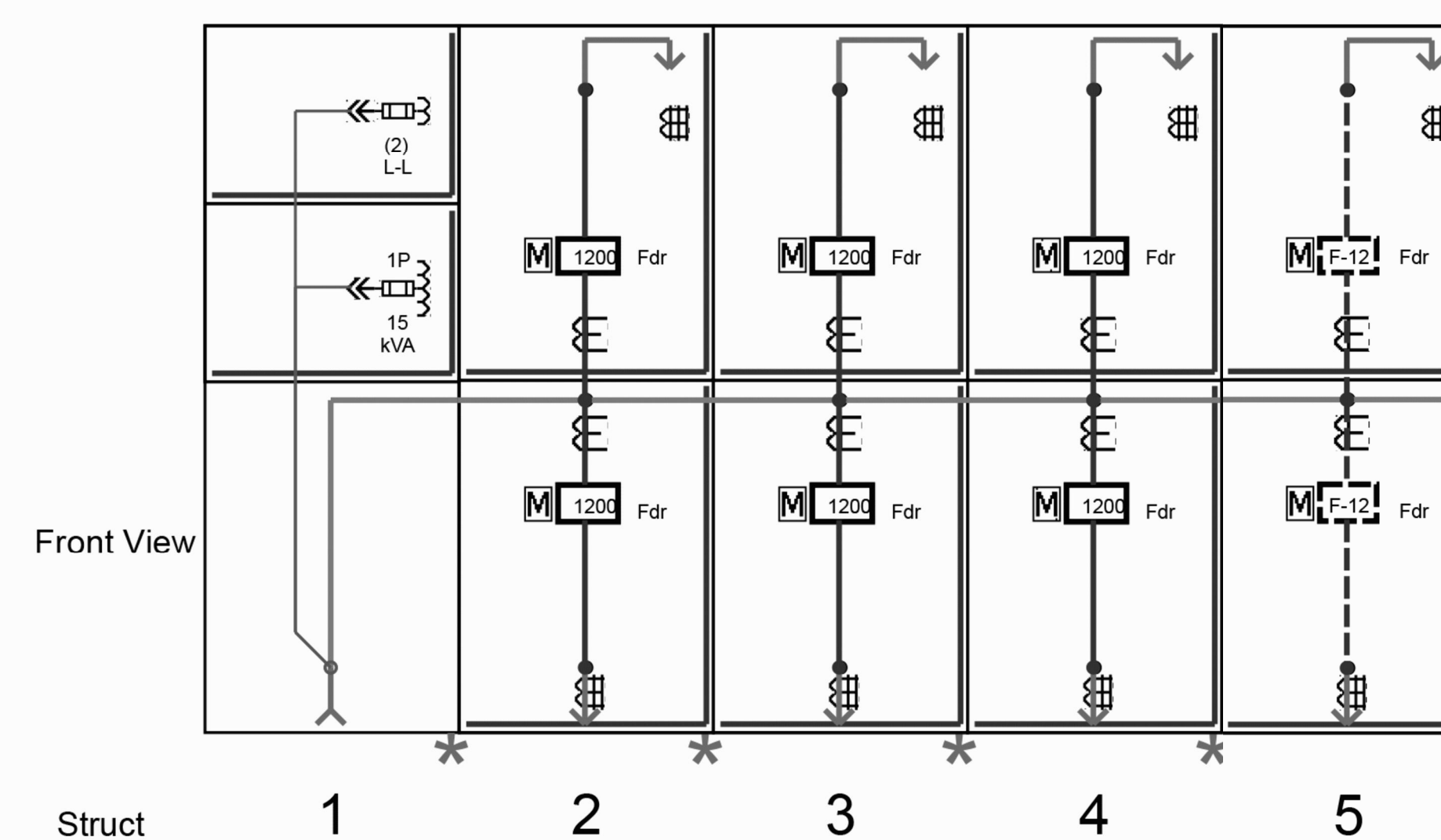
1 MAIN SWITCHGEAR (MSG) FRONT ELEVATION  
E-2 SCALE: NONE



2 GENERATOR PARALLELING (PS) SWITCHGEAR FRONT ELEVATION  
E-2 SCALE: NONE



3 METAL CLAD SWITCHGEAR (SG1) FRONT ELEVATION  
E-2 SCALE: NONE



4 METAL CLAD SWITCHGEAR (SG2) FRONT ELEVATION  
E-2 SCALE: NONE

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ISSUED FOR REVIEW  
4/22/2021

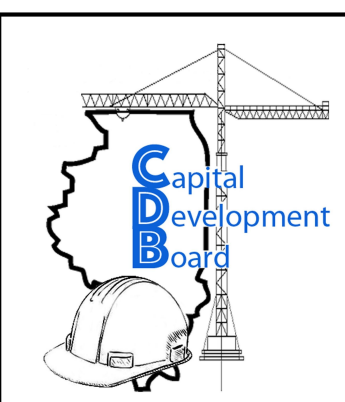
NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

REVISIONS		
NO.	DATE	REMARKS

DRAWN	PREPARED
B.K.	---
TRACED	APPROVED
---	---
CHECKED	APPROVED
M.D.W.	M.D.W.



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State of Illinois  
JB PRITZKER, GOVERNOR  
Illinois Capital Development Board

ELECTRICAL – ELEVATIONS  
NEW POWER PLANT  
ELGIN MENTAL HEALTH CENTER  
750 SOUTH STATE STREET  
ELGIN, KANE COUNTY, ILLINOIS

PROJECT NO.  
321-055-138  
DATE  
4/22/2021  
SHEET NO.  
**E-2**  
51 OF (51) SHEETS

5/14/2021 9:44 AM SCI Proj. # 29390.01.00 (PW-CDB) 51\_E-2.DWG