

# CONSTRUCTION DRAWINGS FOR UNIT WELL 12 RECONSTRUCTION FOR MADISON WATER UTILITY MADISON, WISCONSIN



Project Owner

MADISON, WISCONSIN  
UNIT WELL 12 RECONSTRUCTION

801 S. Whitney Way  
Madison WI 53711

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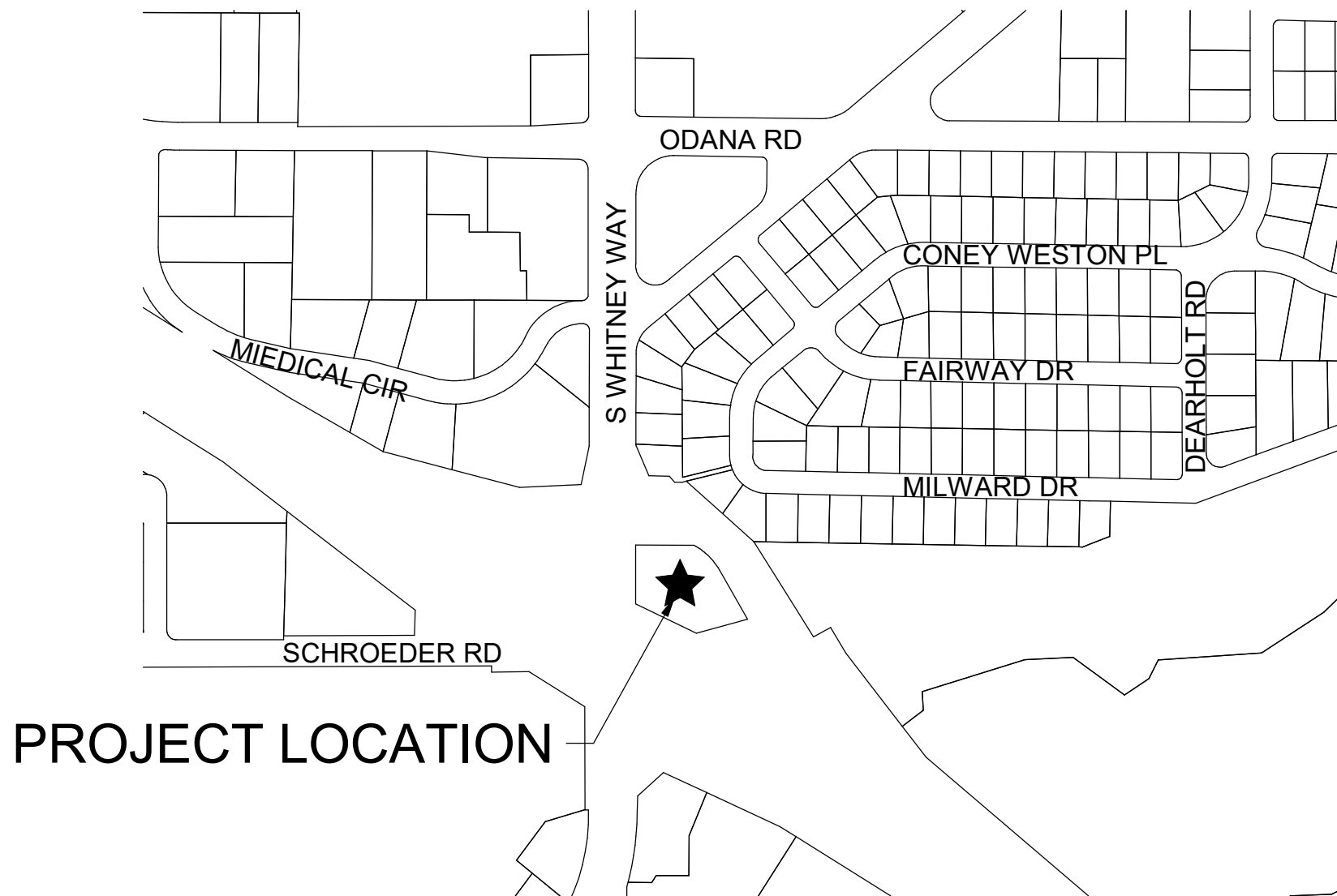
SEH Project MADWU 182222  
Checked By IS  
Drawn By DD

Project Status Issue Date  
DNR SUBMITTAL 6/30/2025

REVISION SCHEDULE  
REV. # DESCRIPTION DATE

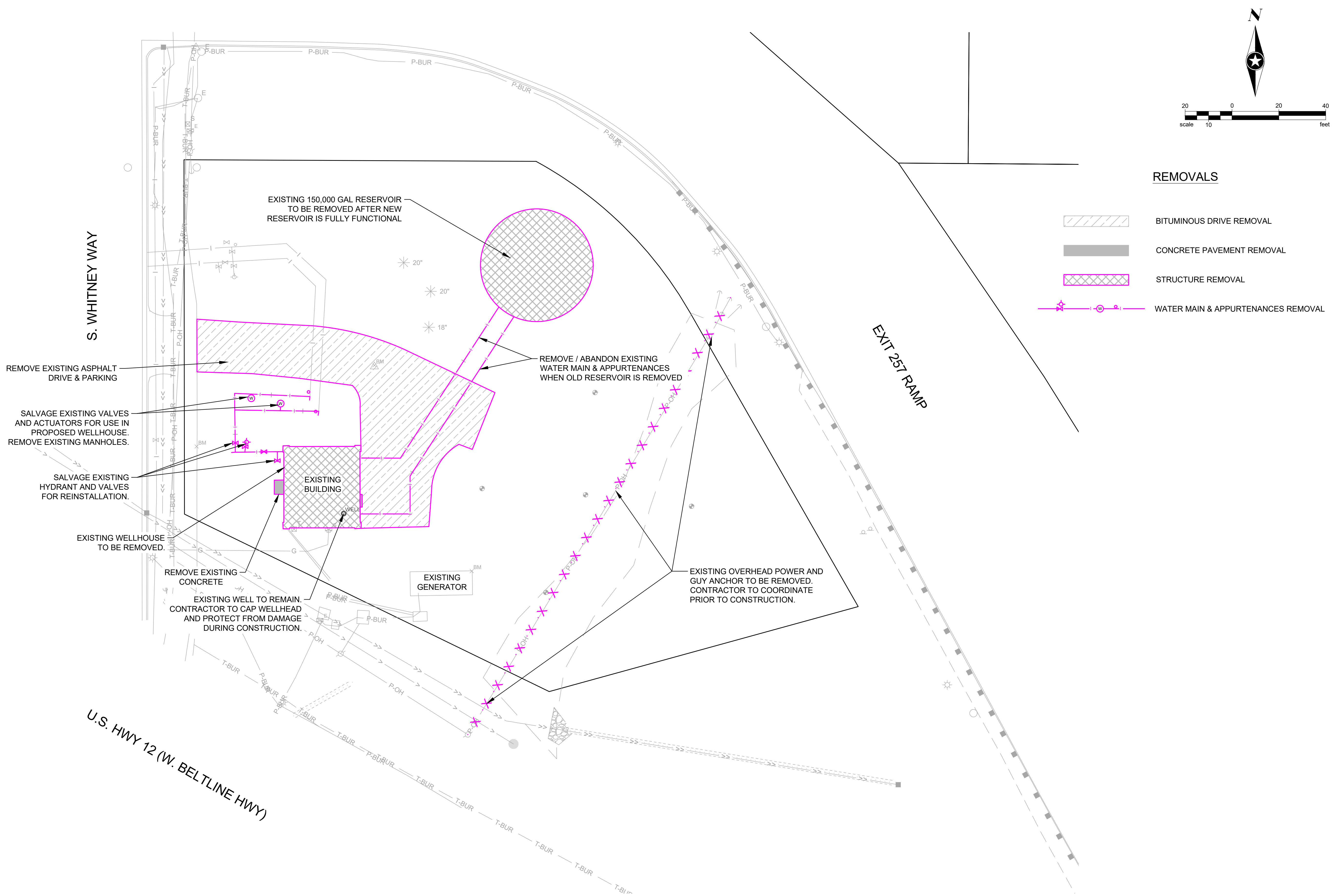
TITLE SHEET

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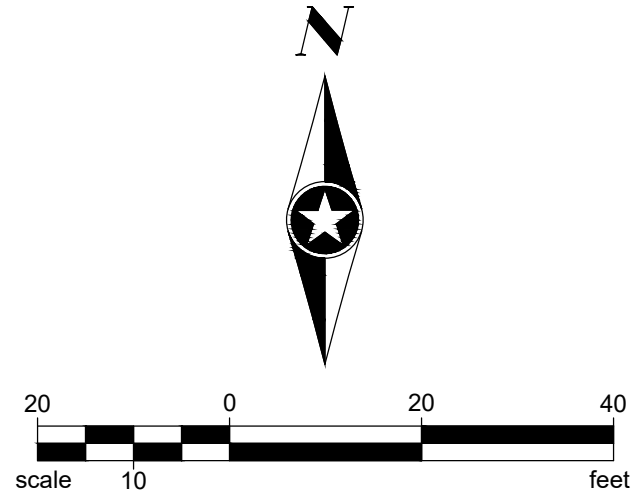
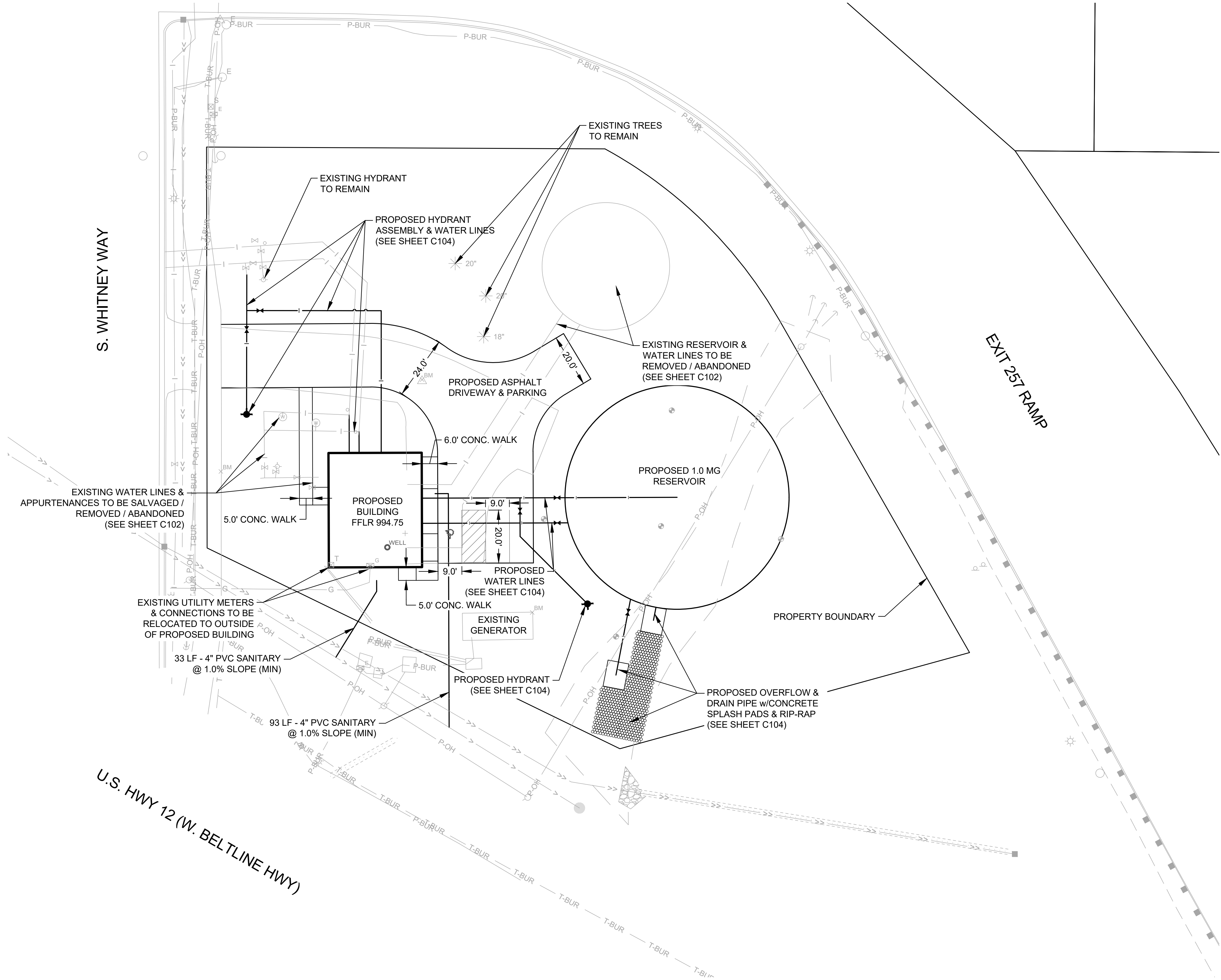
## REMOVALS PLAN





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Project Status Issue Date  
DNR SUBMITTAL 06/30/2025  
CITY SUBMITTAL 09/22/2025

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SITE PLAN

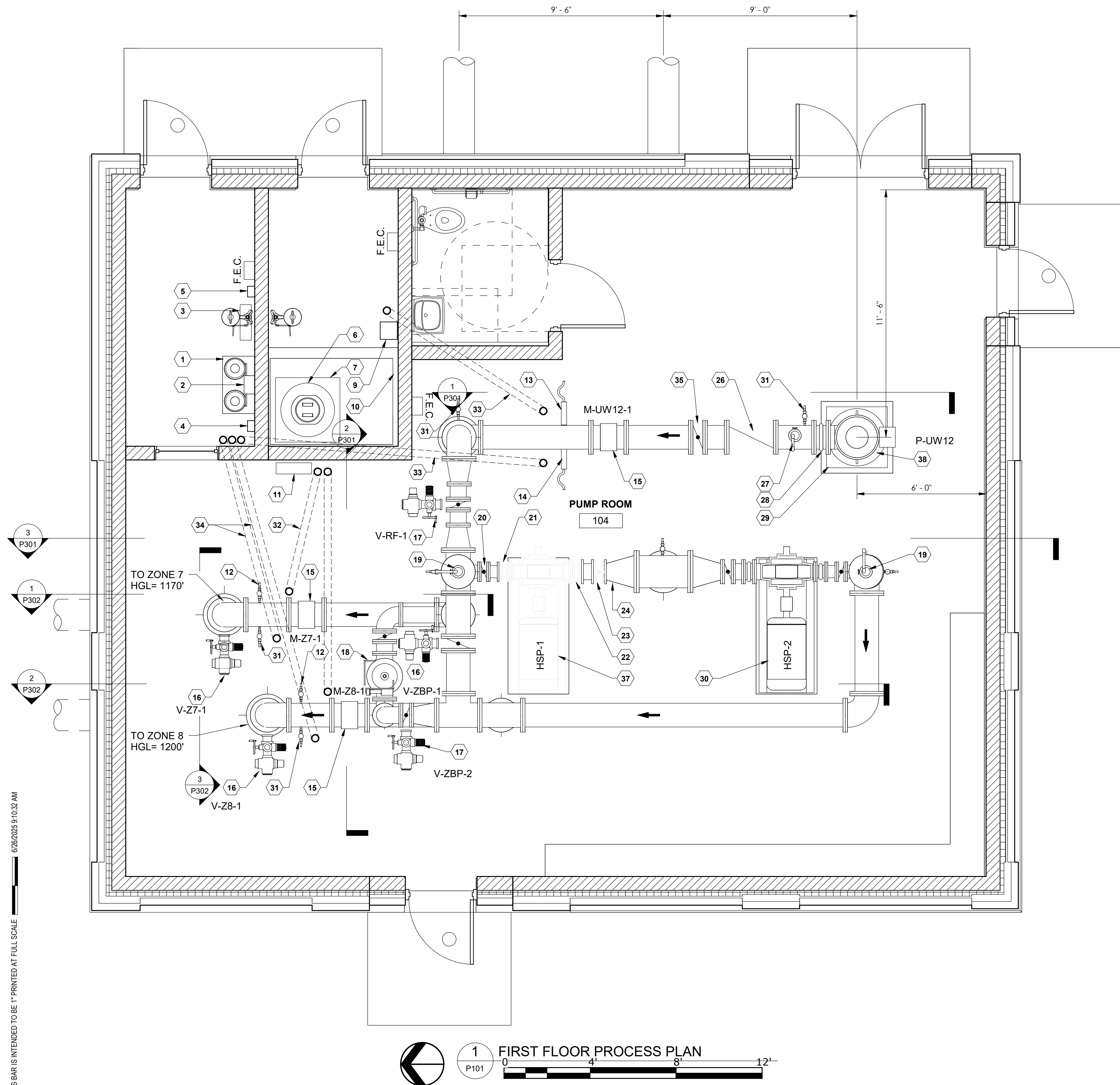
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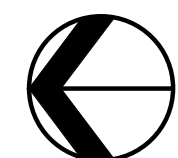
## KEYNOTES:

- 1 DUAL CYLINDER PLATFORM WITH INDICATOR
- 2 GAS CHLORINE FEED SYSTEM - SEE DETAIL E/DP1
- 3 EMERGENCY CHLORINE SHUTOFF PANEL
- 4 CHLORINE GAS DETECTOR
- 5 LOSS OF VACCUM DETECTOR
- 6 165 GALON FLUORIDE TANK
- 7 36" x 36" SCALE PLATFORM
- 8 DIGITAL SCALE INDICATOR
- 9 FLUORIDE METERING PUMP - SEE DETAIL F/DP1
- 10 16" HIGH CHEMICAL CONTAINMENT WALL
- 11 CHLORINE ANALYZER - ROTATE PIPING AS REQUIRED
- 12 TAP PIPE FOR 1/2" CHLORINE ANALYZER SUPPLY - INSTALL 1/2" BALL VALVE - ROUTE PIPE TO CHLORINE ANALYZER
- 13 FLUORIDE INJECTION POINT - SEE DETAIL D/DP1
- 14 CHLORINE INJECTION POINT - SEE DETAIL D/DP1
- 15 12" MAGNETIC FLOW METER (FURNISHED BY OWNER)
- 16 12" BUTTERFLY VALVE W/ELECTRIC ACTUATOR
- 17 8" BUTTERFLY VALVE W/ELECTRIC ACTUATOR
- 18 8" PRESSURE SUSTAINING/PRESSURE REDUCING VALVE (V-PSV/PRV-1)
- 19 AIR RELEASE VALVE - ROUTE VENT TO NEARBY HUB DRAIN SEE DETAIL A/DP1
- 20 6" BUTTERFLY VALVE
- 21 6" EXPANSION JOINT
- 22 8" EXPANSION JOINT
- 23 8" BUTTERFLY VALVE
- 24 16x8 ECCENTRIC REDUCER
- 25 12" BUTTERFLY VALVE
- 26 12" CHECK VALVE
- 27 AIR/VACUUM VALVE - ROUTE VENT TO NEARBY FLOOR DRAIN - SEE DETAIL A/DP1
- 28 12" EXPANSION JOINT
- 29 VERTICAL TURBINE WELL, PUMP, MOTOR AND PUMP BASE - SEE DP3 FOR DETAILS
- 30 HIGH SERVICE PUMP
- 31 SAMPLE TAP - SEE DETAIL B/DP2
- 32 4" CONDUIT WITH LONG SWEEP BENDS UNDER FLOOR FOR CHLORINE ANALYZER TUBING
- 33 4" CONDUIT WITH LONG SWEEP BENDS UNDER FLOOR FOR CHEMICAL FEED TUBING
- 34 4" CONDUIT WITH LONG SWEEP BENDS UNDER FLOOR FOR ALTERNATE CHLORINE FEED
- 35 12" BUTTERFLY VALVE W/HANDWHEEL
- 36 EMERGENCY SHOWER, TYP.
- 37 EXISTING HIGH SERVICE PUMP SALVAGED FROM EXISTING WELLHOUSE
- 38 EXISTING UW 12 DEEP WELL TO REMAIN, PROTECT FROM DAMAGE DURING CONSTRUCTION, SEE PUMP BASE DETAIL.  
-CONTRACTOR TO FIELD VERIFY LOCATION

NOTE:  
ENCASE BELOW FLOOR PIPING ACCORDING TO DETAIL K/DP1

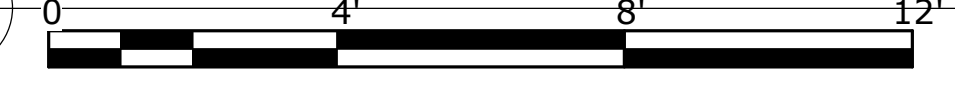


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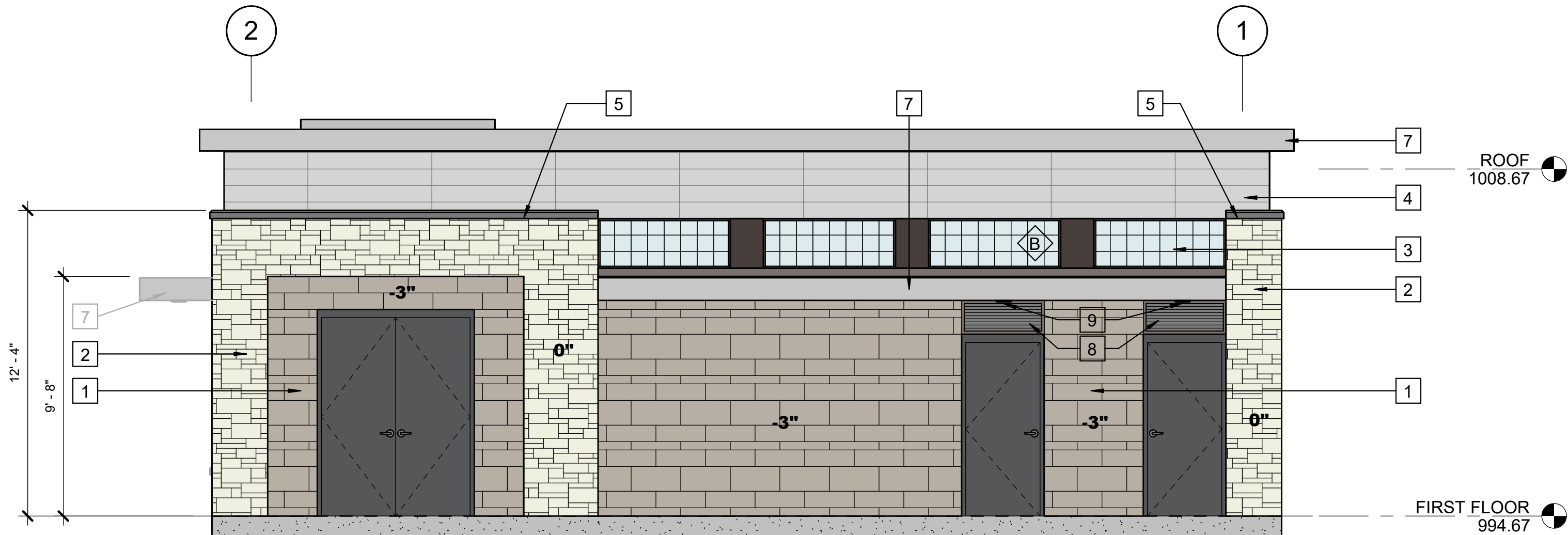
FIRST FLOOR PROCESS PLAN



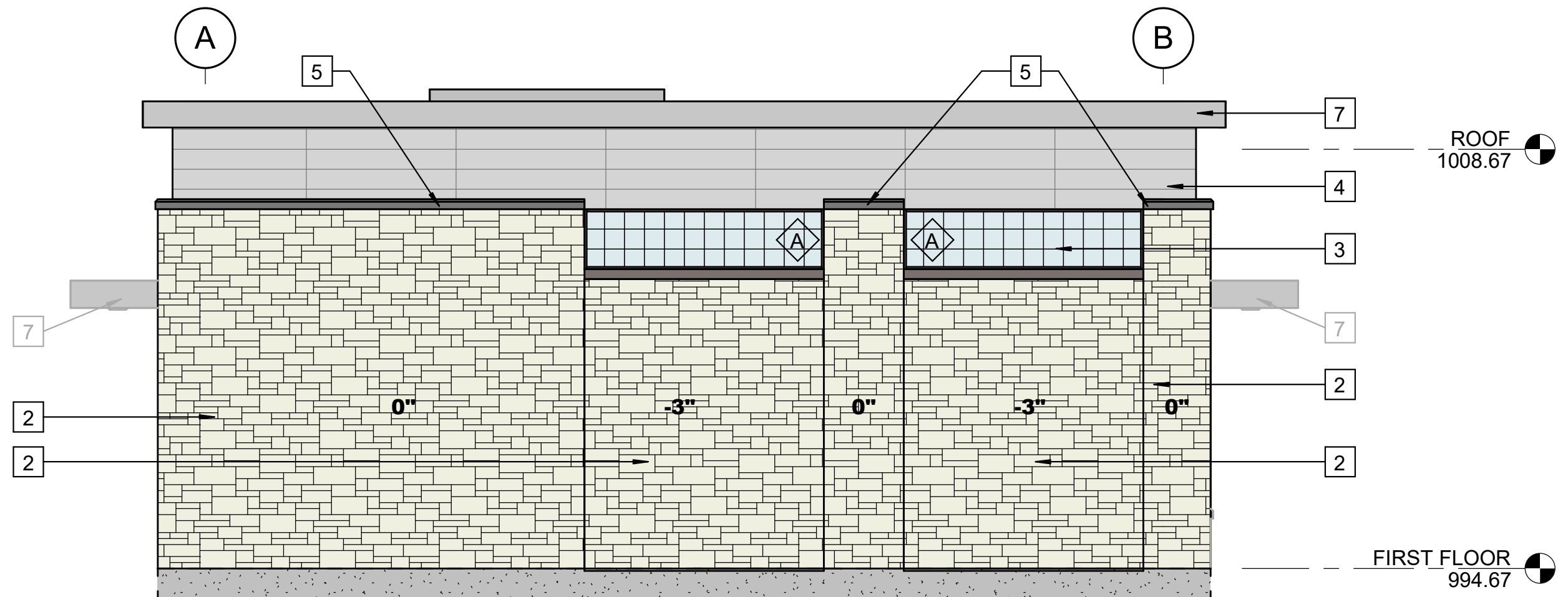


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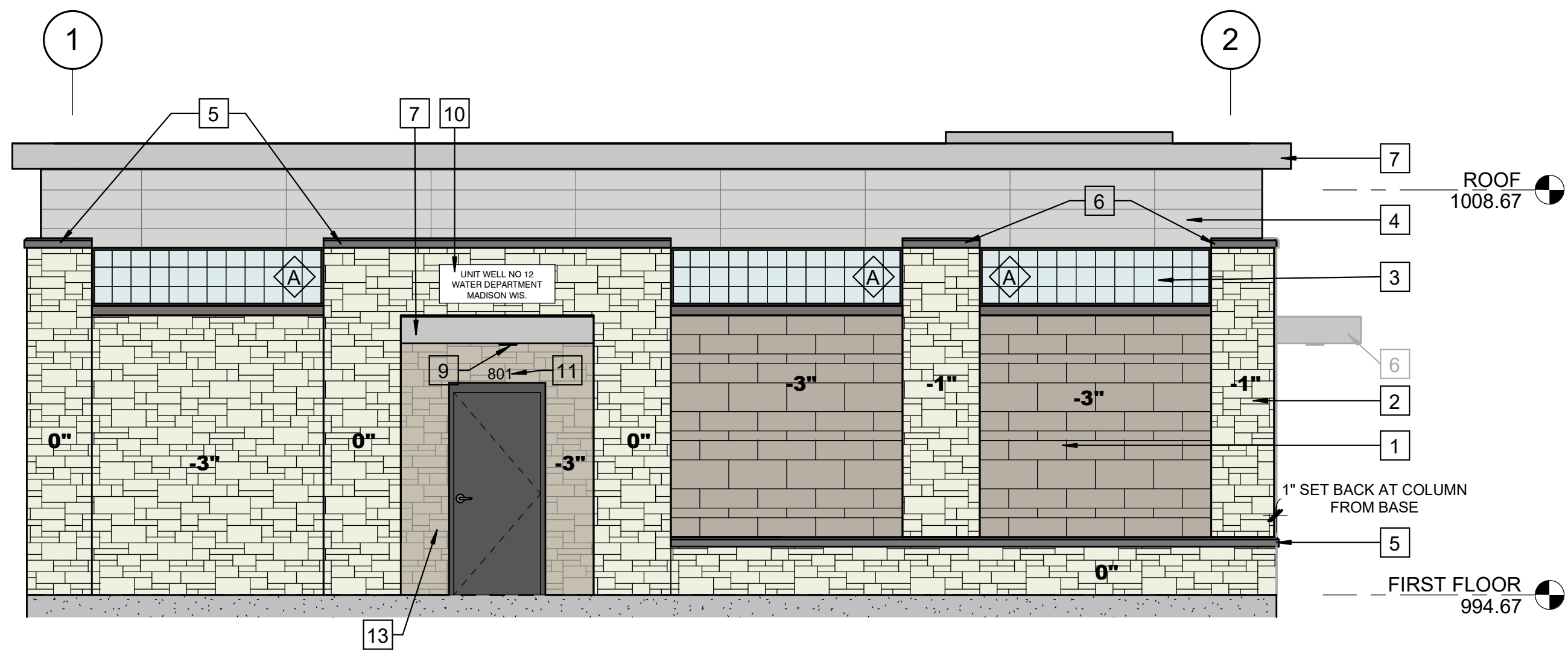
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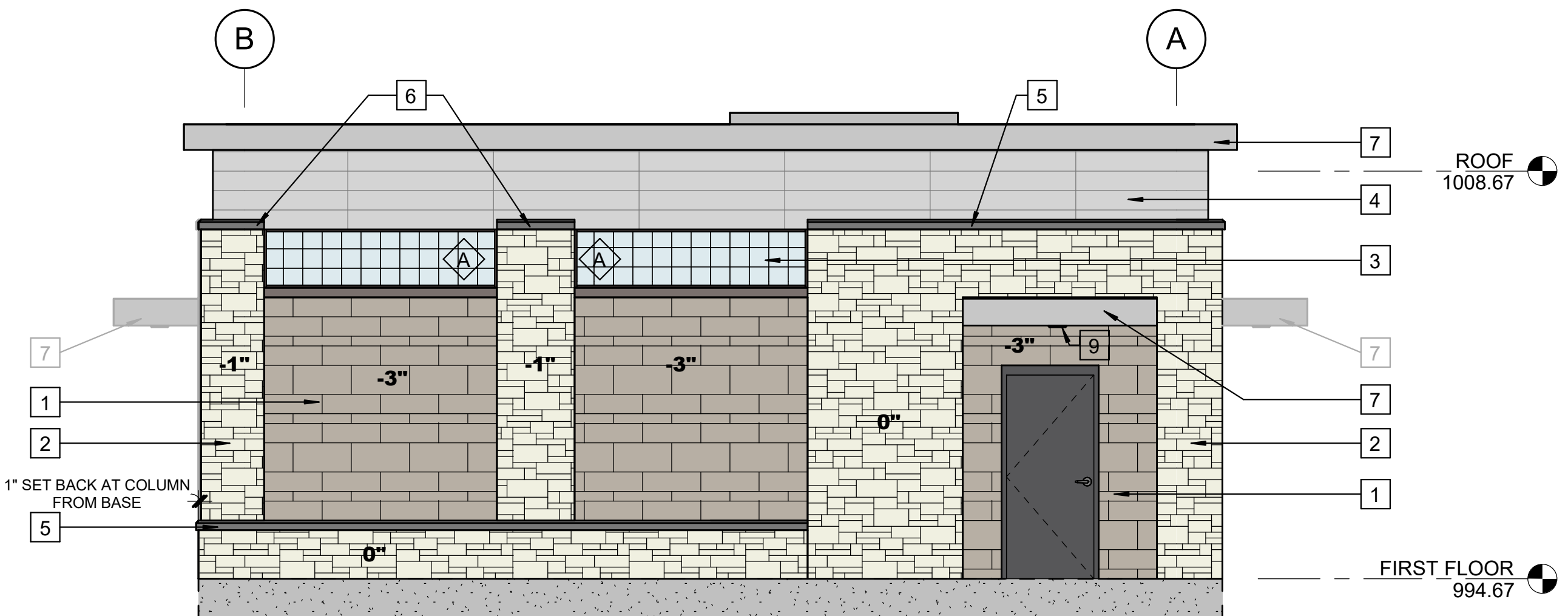
1 EAST ELEVATION  
A201 1/4" = 1'-0"



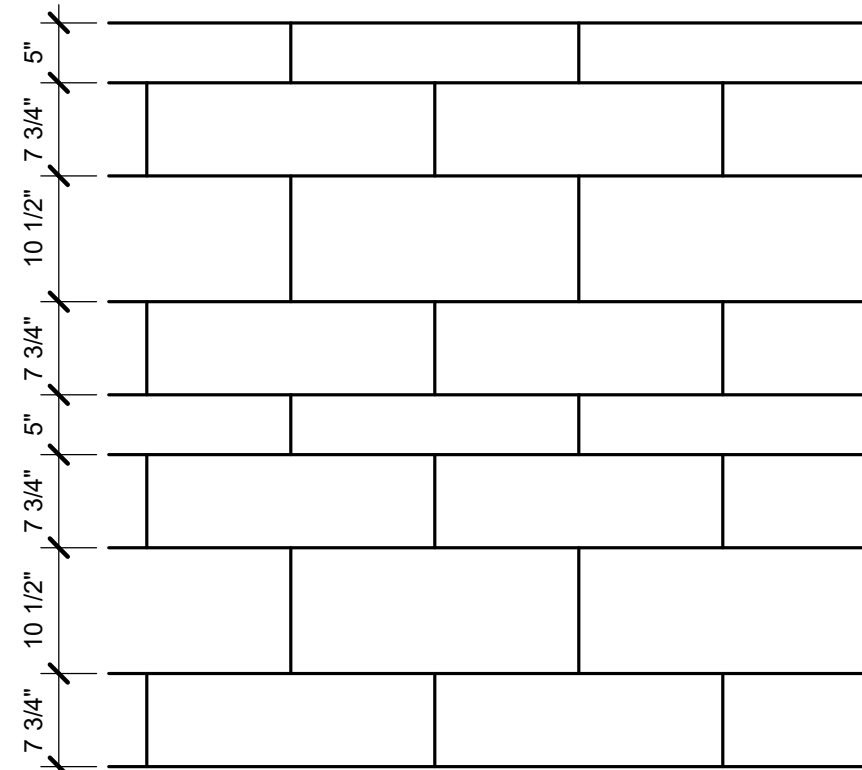
2 NORTH ELLEVATION  
A201 1/4" = 1'-0"



3 WEST ELEVATION  
A201 1/4" = 1'-0"



4 SOUTH ELEVATION  
A201 1/4" = 1'-0"



NOTE: STONE LENGTHS VARY BETWEEN 8" AND 32", STONE HEIGHT COURSING AS SHOWN ABOVE. SEE SPECIFICATIONS FOR STONE TYPE

## Exterior Stone Veneer Coursing

### GENERAL NOTES:

1. ALL CAST STONE COPINGS PROJECT NOMINALLY 1.5" BEYOND FACE OF STONE

### KEY NOTES:

- |   |                                                   |    |                                                                                          |
|---|---------------------------------------------------|----|------------------------------------------------------------------------------------------|
| 1 | STONE VENEER 1                                    | 8  | LOUVER REFER TO DA6                                                                      |
| 2 | STONE VENEER 2                                    | 9  | SOFFIT LIGHT CENTER ON DOOR REFER TO ELECTRICAL DRAWINGS                                 |
| 3 | TRANSLUCENT FIBERGLASS SANDWICH PANEL WALL SYSTEM | 10 | SALVAGED STONE SIGNAGE FROM EXISTING BUILDING. CLEAN STONE AND PAINT RECESSED LETTERING. |
| 4 | 8" H x 5'-0" LONG TERRA COTTA RAIN SCREEN SYSTEM  | 11 | BUILDING ADDRESS COORDINATE WITH OWNER                                                   |
| 5 | CAST STONE COPING 1                               | 12 | SALVAGED STONE VENEER FROM EXISTING. BUILDING.                                           |
| 6 | CAST STONE COPING 2                               |    |                                                                                          |
| 7 | METAL FASCIA                                      |    |                                                                                          |

NOTE: ALL DRAWING SCALES ARE FOR PLANS PRINTED ON 34"x22" SHEETS



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SEH Project 182222  
Checked By JRL  
Drawn By JRL

Project Status Issue Date  
DNR SUBMITTAL 6/30/2025

### REVISION SCHEDULE

| REV. # | DESCRIPTION | DATE |
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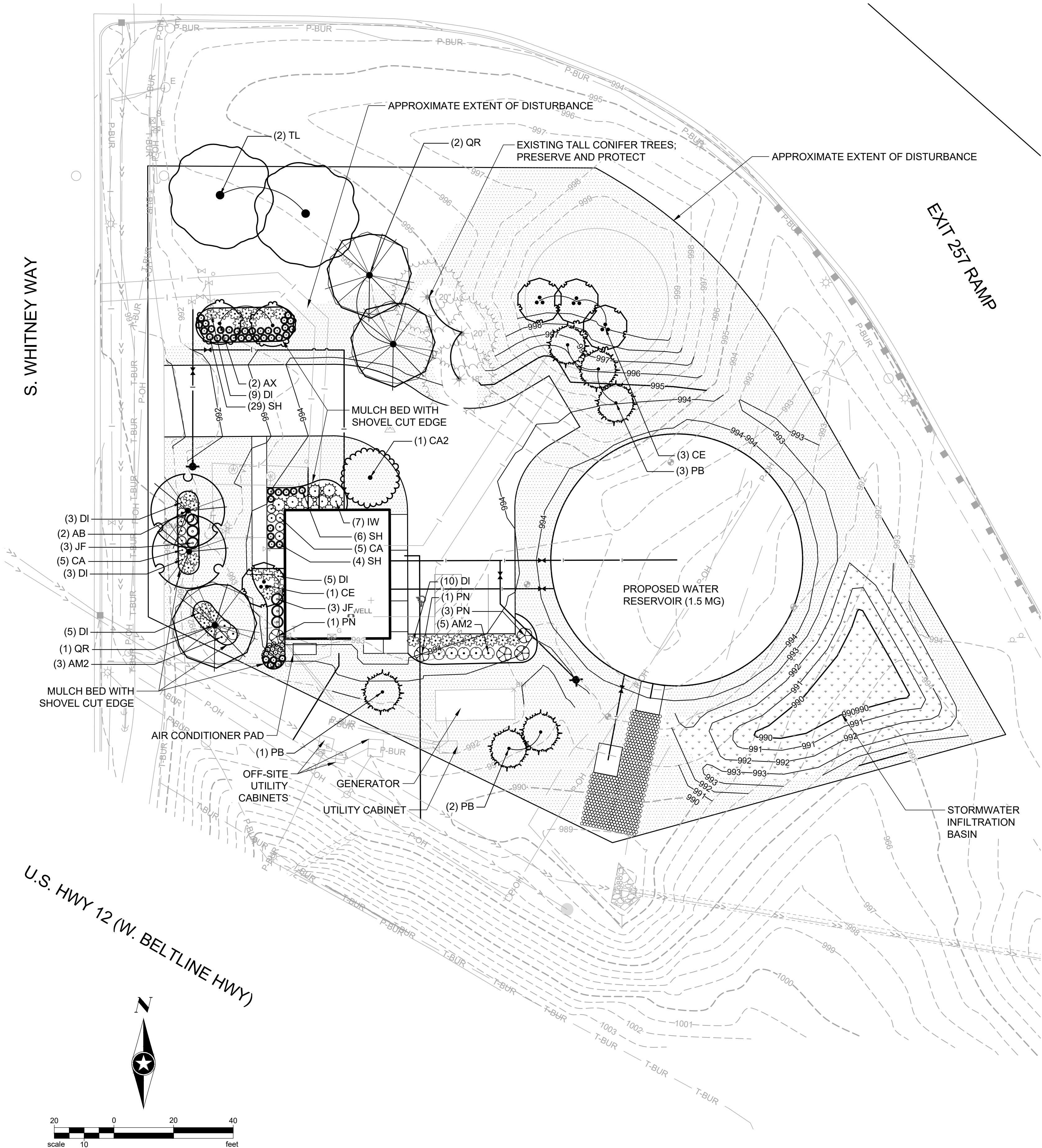
EXTERIOR ELEVATIONS

01  
A201



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PLANT SCHEDULE

| SYMBOL           | CODE | BOTANICAL / COMMON NAME                                                                                                                                                                 | SIZE     | ROOT           | QTY       |
|------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|-----------|
| TREES            |      |                                                                                                                                                                                         |          |                |           |
|                  |      | EXISTING CONIFER                                                                                                                                                                        |          |                | 3         |
| EVERGREEN TREES  |      |                                                                                                                                                                                         |          |                |           |
|                  | PB   | Picea glauca densata / Black Hills Spruce                                                                                                                                               | 6' Tall  | B&B            | 6         |
| ORNAMENTAL TREES |      |                                                                                                                                                                                         |          |                |           |
|                  | AX   | Amelanchier x grandiflora / Apple Serviceberry                                                                                                                                          | 1.5" Cal |                | 2         |
|                  | CA2  | Carpinus caroliniana / American Hornbeam                                                                                                                                                | 1.5" Cal | B&B            | 1         |
|                  | CE   | Cercis canadensis / Eastern Redbud Multi-trunk                                                                                                                                          | 6' Tall  | B&B            | 4         |
| OVERSTORY TREE   |      |                                                                                                                                                                                         |          |                |           |
|                  | AB   | Acer saccharum 'Bailsta' / Fall Fiesta® Sugar Maple                                                                                                                                     | 2.5" CAL | B&B            | 2         |
|                  | QR   | Quercus rubra / Red Oak                                                                                                                                                                 | 2" CAL   | B&B            | 3         |
|                  | TL   | Tilia americana / American Linden                                                                                                                                                       | 2" CAL   | B&B            | 2         |
| SYMBOL           | CODE | BOTANICAL / COMMON NAME                                                                                                                                                                 | SIZE     | ROOT CONDITION | QTY       |
| DECIDUOUS SHRUB  |      |                                                                                                                                                                                         |          |                |           |
|                  | AM2  | Aronia melanocarpa 'Morton' / Iroquois Beauty™ Black Chokeberry                                                                                                                         | 5 gal.   | CONTAINER      | 8         |
|                  | CA   | Ceanothus americanus / New Jersey Tea                                                                                                                                                   | 3 gal.   | CONTAINER      | 10        |
|                  | DI   | Diervilla lonicera / Bush Honeysuckle                                                                                                                                                   | 3 gal.   | CONTAINER      | 35        |
|                  | HV   | Hamamelis virginiana / Common Witch Hazel                                                                                                                                               | 36" T/W  | CONTAINER      | 1         |
|                  | IW   | Ilex verticillata / Winterberry                                                                                                                                                         | 5 gal.   | CONTAINER      | 7         |
|                  | PN   | Physocarpus opulifolius / Ninebark                                                                                                                                                      | 5 gal.   | CONTAINER      | 5         |
| EVERGREEN SHRUB  |      |                                                                                                                                                                                         |          |                |           |
|                  | JF   | Juniperus chinensis 'Sea Green' / Sea Green Juniper                                                                                                                                     | 5 gal.   | CONTAINER      | 6         |
| PERENNIALS       |      |                                                                                                                                                                                         |          |                |           |
|                  | Ac   | Asarum canadense / Wild Ginger                                                                                                                                                          | 1 quart  | CONTAINER      | 12        |
|                  | SH   | Sporobolus heterolepis / Prairie Dropseed                                                                                                                                               | 1 gal.   | CONTAINER      | 44        |
| SYMBOL           | CODE | BOTANICAL / COMMON NAME                                                                                                                                                                 |          |                | QTY       |
| GROUND COVERS    |      |                                                                                                                                                                                         |          |                |           |
|                  |      | LAWN SEED MIX<br>WisDOT Seed Mix No. 40                                                                                                                                                 |          |                | 21,292 sf |
|                  |      | STORMWATER SEED MIX<br>Prairie Nursery "Detention Basin - Bioswale" Seed Mix, or approved equal. Apply per manufacturer's recommendation, minimum seeding rate 1/4 lb. per 1000 sq. ft. |          |                | 3,501 sf  |



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SEH Project  
Checked By  
Drawn By

MADWU\_182222  
KB  
PAL

Project Status  
DNR SUBMITTAL  
CITY SUBMITTAL

Issue Date  
06/30/2025  
09/22/2025

REVISION SCHEDULE

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LANDSCAPE PLAN



L101





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