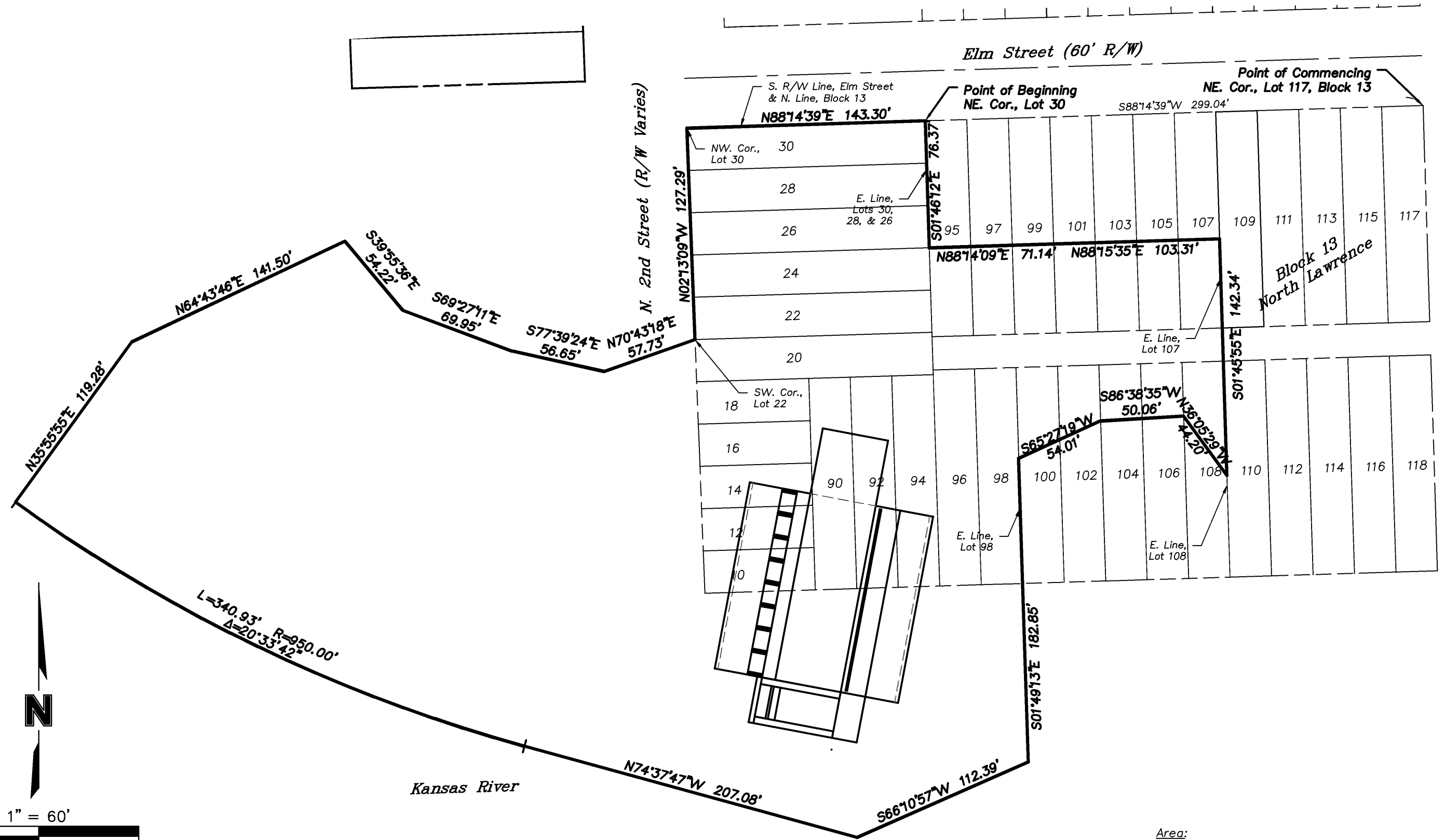
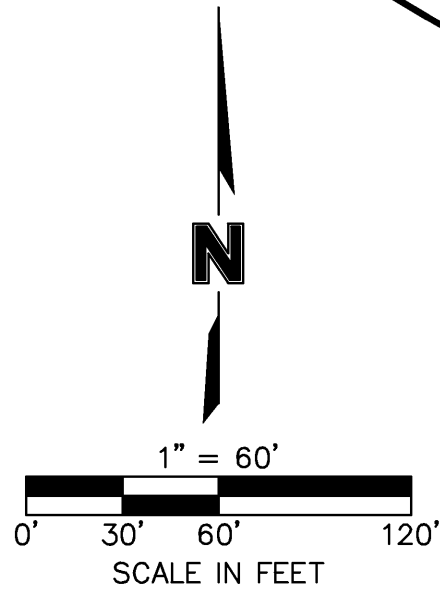


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DATE: Feb 12, 2010 11:14am
USER: jbaughman
XREFS: 1208-phbase_1-20-10
81208_XTOPO
81208_XBASE



Area:
173,788 Square Feet
or 3.990 Acres ±

PROJECT NO: 008-1208
DRAWN BY: JAMB
DATE: 02/12/10

Boundary Exhibit
Bowersock Power Plant

MOLSSON
ASSOCIATES

7301 West 133rd Street
Suite 200
Overland Park, KS 66213-4750
TEL 913.381.1170
FAX 913.381.1174

EXHIBIT

4

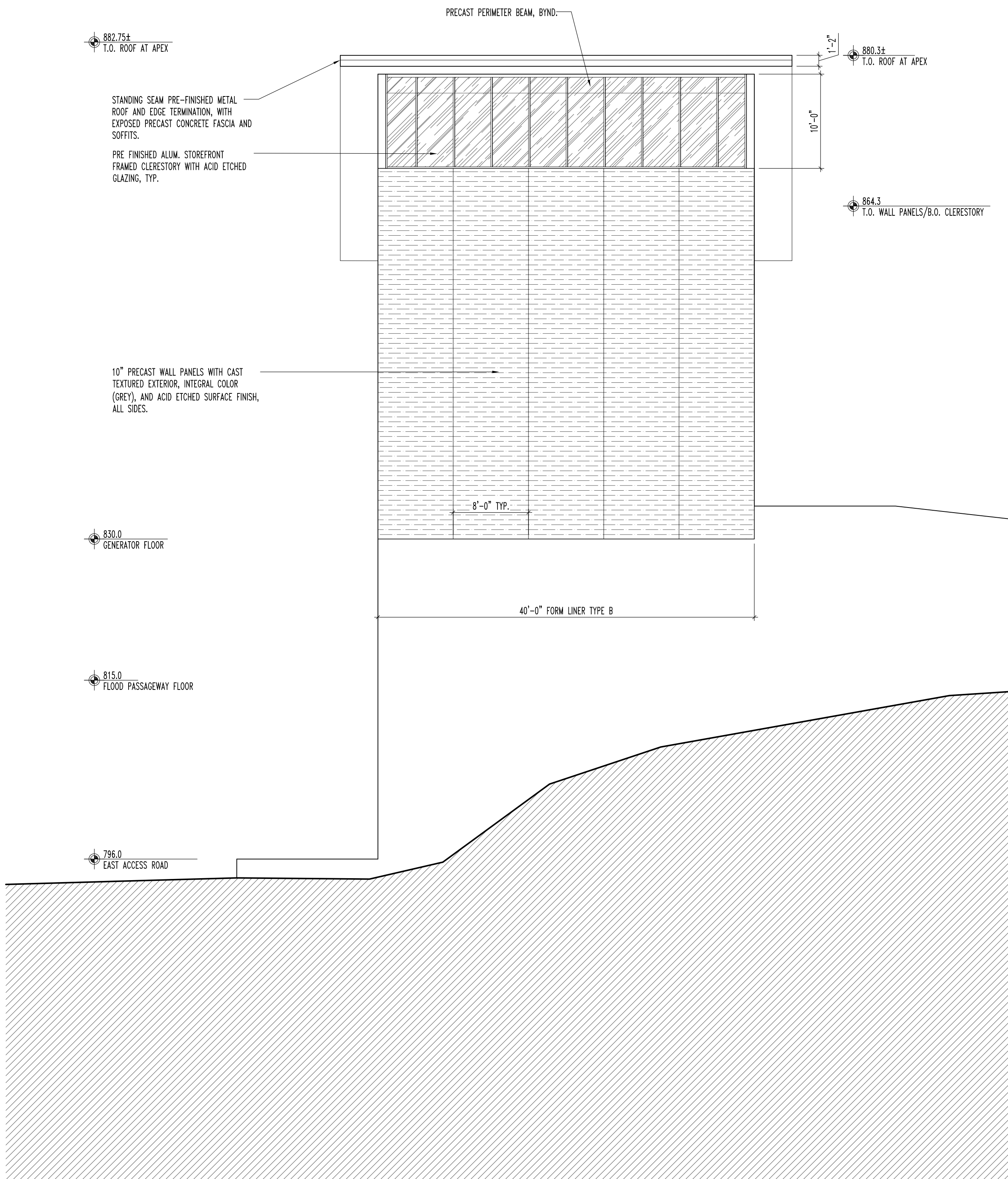
Bowersock Mill and Power Company
Schematic Lighting Design Narrative
03.15.2010

Interior lighting will include induction lamp high-bay style lighting fixtures mounted above the bridge crane system at approximately 30'-6" above the generator floor slab. Induction lamp life is rated at 100,000 hours. The interior lighting system will incorporate photocell and occupancy sensors to automatically turn light fixtures off when there is sufficient daylight for illumination, or the space is unoccupied. Preliminary lighting calculations indicate 16 to 18 fixtures will be required; providing an average of 30 foot-candles on the generator floor and requiring 0.8 watts / square foot of power.

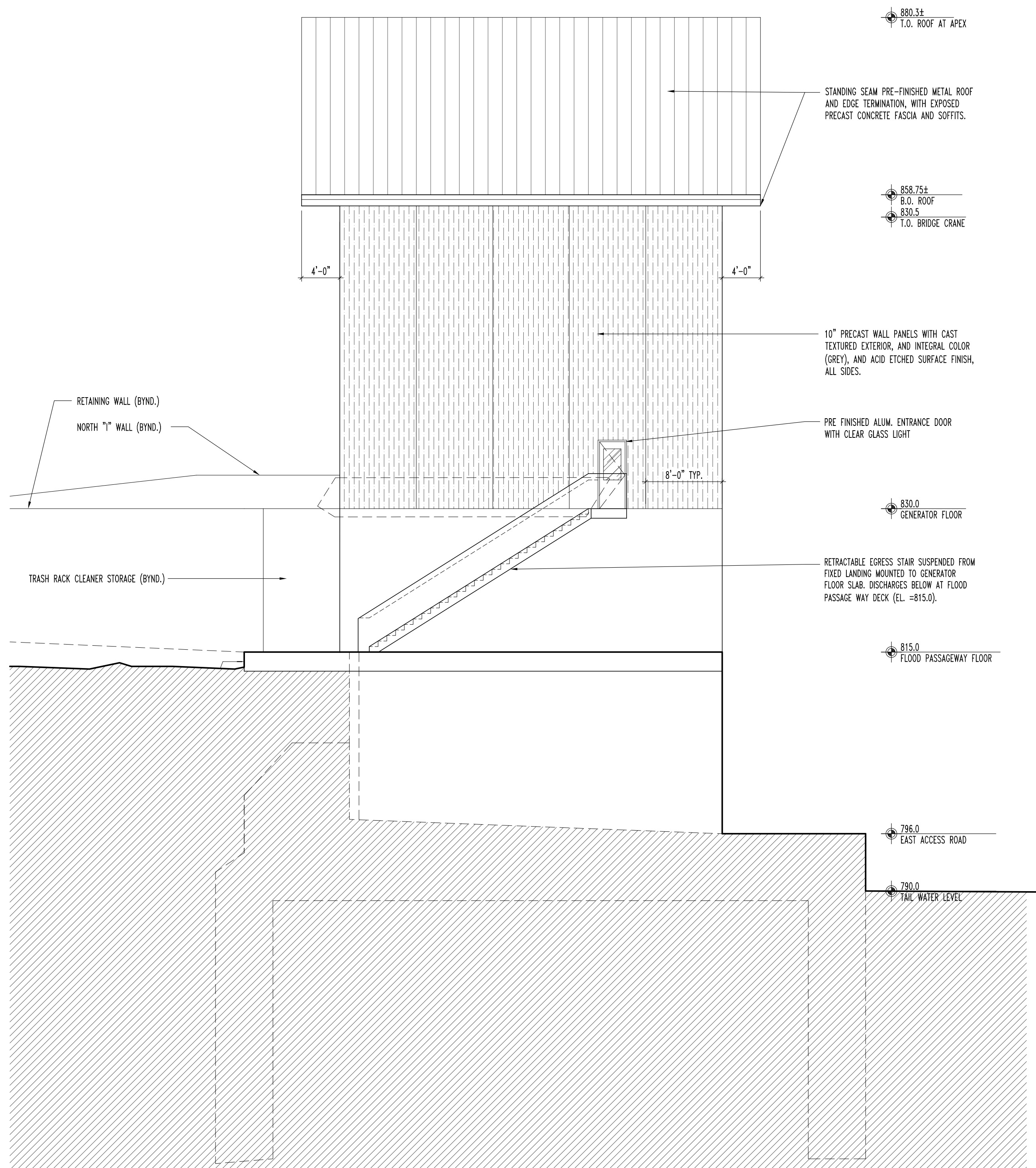
Industrial "Bug-Eye" style battery powered fixtures will be provided for emergency lighting.

In general, exterior light fixtures will have full-cut off housings to minimize light pollution. Wall mounted LED light fixtures will be installed on the east and west facades to illuminate the forebay deck and east access road, and provide subtle accent illumination of the building façade. The fixtures will be automatically controlled with photocell sensors, so that fixtures are turned on for dusk to dawn operation. Additionally, a controller will allow adjustments in façade accent illumination. Color changing LED fixtures will be mounted to the interior window jambs of 4 of the larger windows on the east and west facades to illuminate the frosted glass. A controller will allow automated and real time adjustments to the color changing LED's.

Wall mounted fixtures will be placed to illuminate the grounds north of the plant, the drive west of the plant, the gate area south of the plant, and other locations to be identified where vandalism is a concern. Approximately 14 site light fixtures will be required. Compact fluorescent wall mounted fixtures with emergency ballasts will be provided above the exterior egress doors at the northwest and south plant locations. A separate wall mounted fixture will be mounted above the overhead door.



2 NORTH ELEVATION: revised clerestory & roof, exposed perimeter beam
Scale: 1/8" = 1'-0"



1 SOUTH ELEVATION: revised clerestory & roof, exposed perimeter beam
Scale: 1/8" = 1'-0"

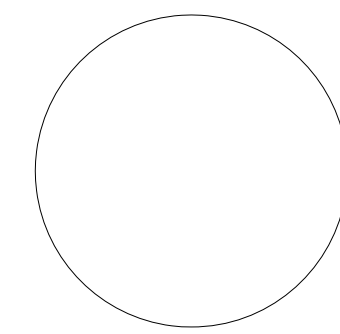
BOWERSOCK POWER PLANT EXPANSION

Lawrence, Kansas 66046

Project:

sabatinichitects
P.C.

730 NEW HAMPSHIRE STREET SUITE 233, LAWRENCE, KS 66044
T: 785.331.1399 F: 785.331.0846
www.sabatinichitects.com



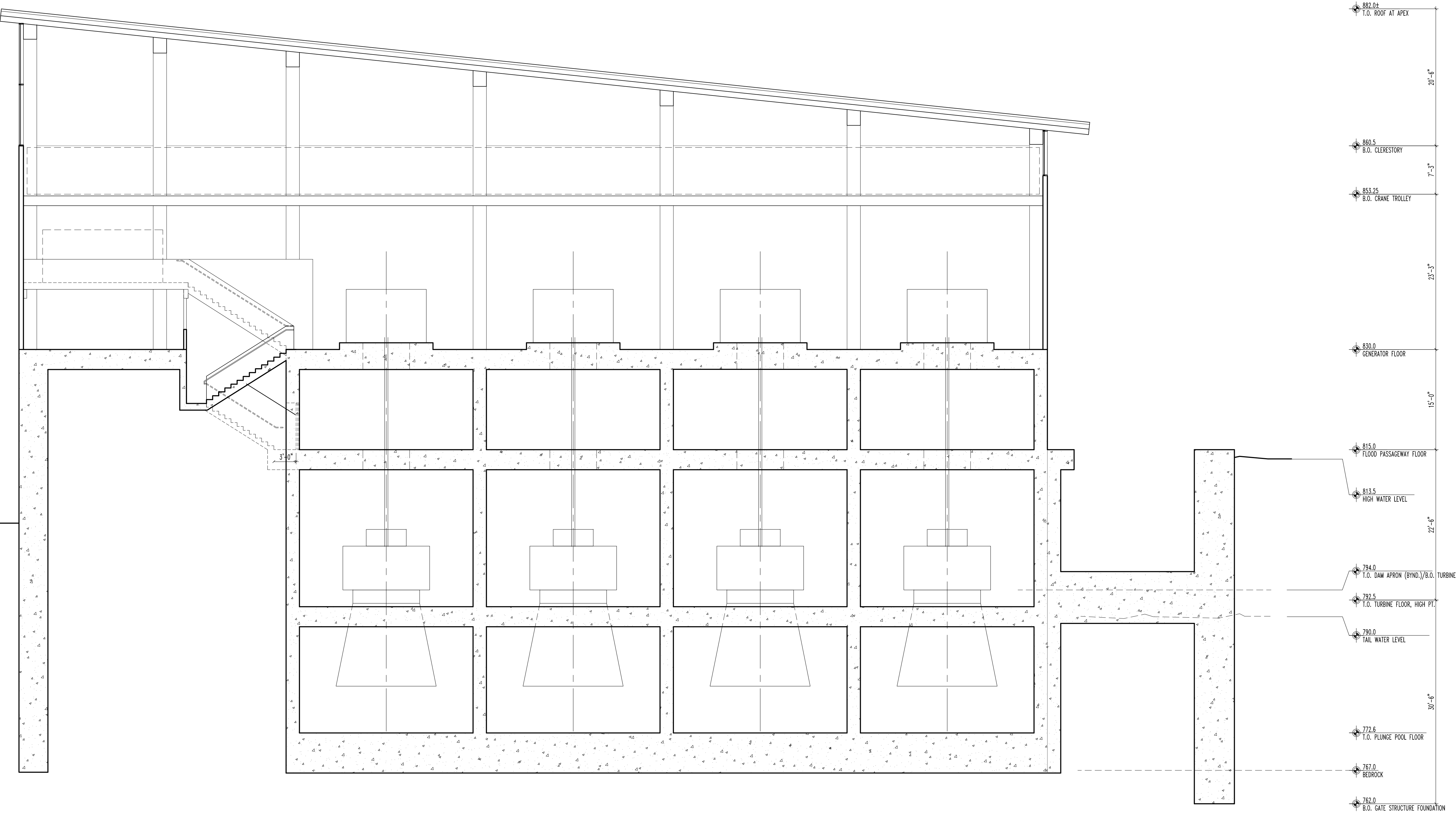
Revisions:
02.23.2010 FOR SD PRICING
03.15.2010 FOR SUP

SCHEMATIC DESIGN DOCUMENTS

Permit/Pricing Set
Issue Date: 03.15.2010
Scale: AS NOTED
Project No.: 08260.010
Drawn By: KAN
Checked By: DMS
Title: BUILDING ELEVATIONS

Sheet No.:

A402



1 NORTH/SOUTH SECTION THROUGH POWER HOUSE LOOKING EAST
Scale: 1/8" = 1'-0"

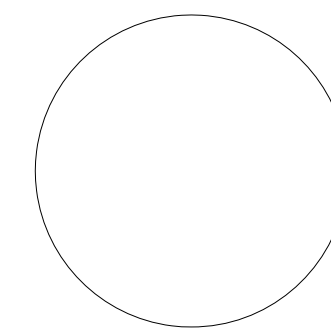
BOWERSOCK POWER PLANT EXPANSION

Lawrence, Kansas 66046

Project:

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730 NEW HAMPSHIRE STREET SUITE 233, LAWRENCE, KS 66044
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Revisions:

SCHEMATIC DESIGN DOCUMENTS

Permit/Pricing Set

Issue Date: 02.04.2010

Scale: AS NOTED

Project No.: 08260.010

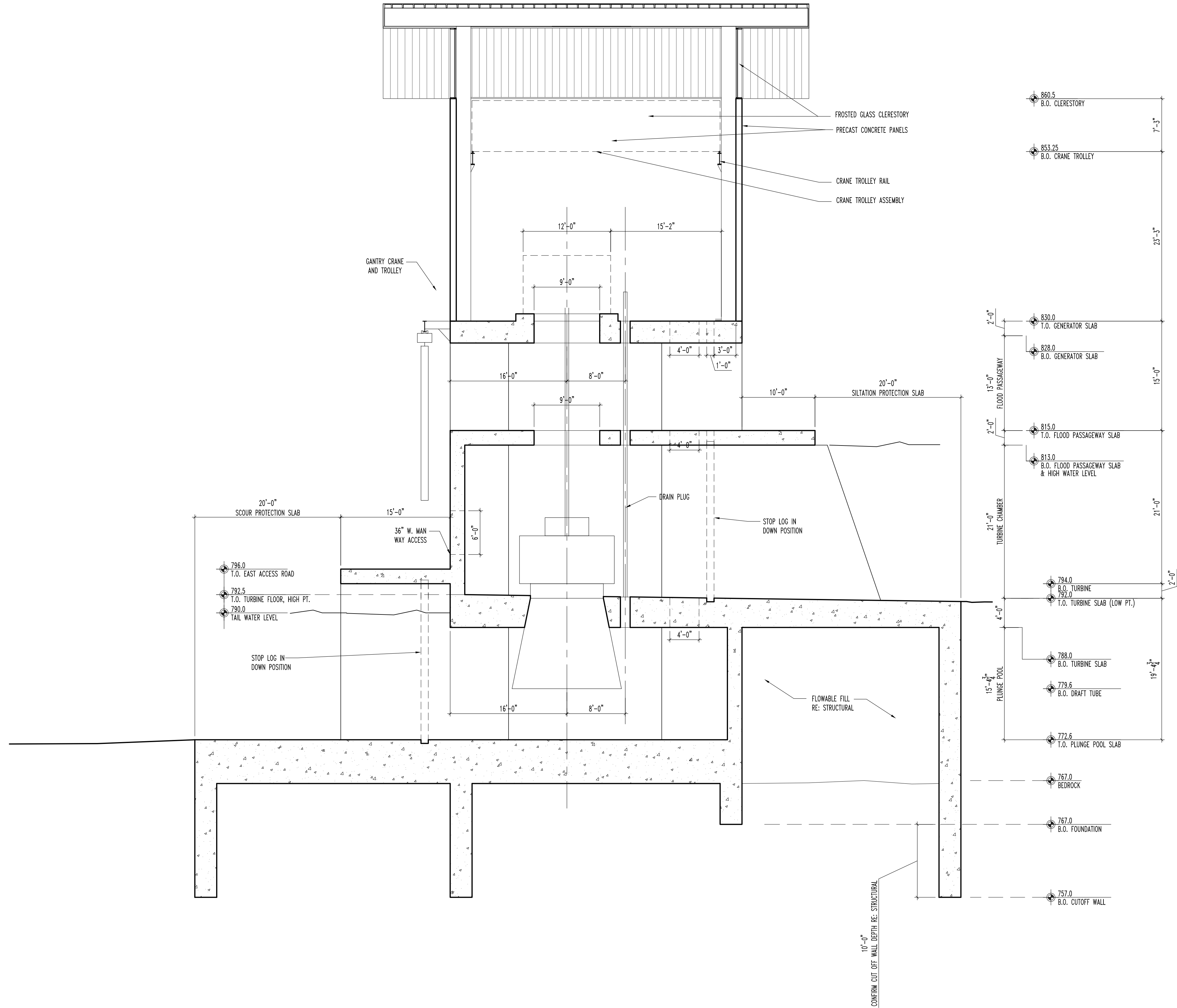
Drawn By: KAN

Checked By: DMS

Title: BUILDING SECTION

Sheet No.:

A301



1 EAST/WEST SECTION THROUGH POWER HOUSE LOOKING SOUTH
Scale: 1/8" = 1'-0"

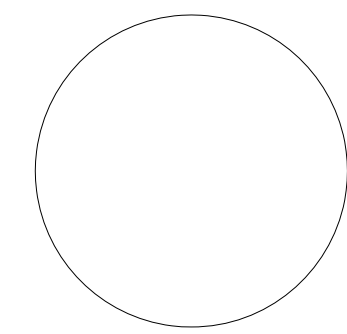
BOWERSOCK POWER PLANT EXPANSION

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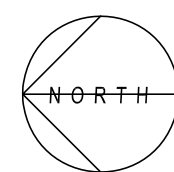
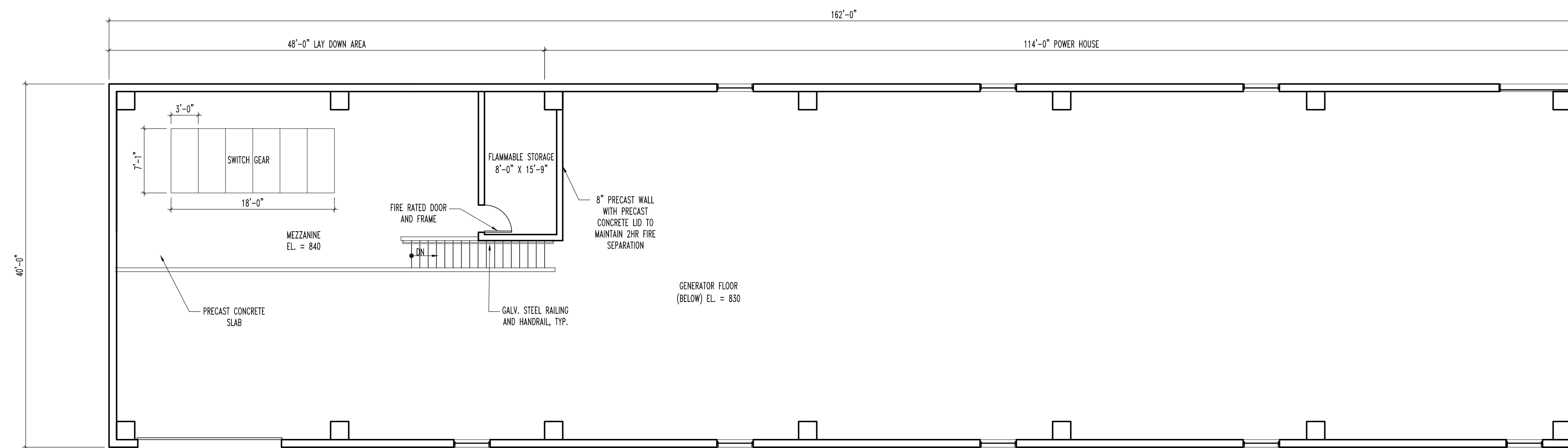
Revisions:

SCHEMATIC DESIGN DOCUMENTS

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Issue Date: 02.04.2010
Scale: AS NOTED
Project No.: 08260.010
Drawn By: KAN
Checked By: DMS
Title: BUILDING SECTION

Sheet No.:

A300



1 MEZZANINE FLOOR PLAN (EL. = 840)
Scale: 1/8" = 1'-0"

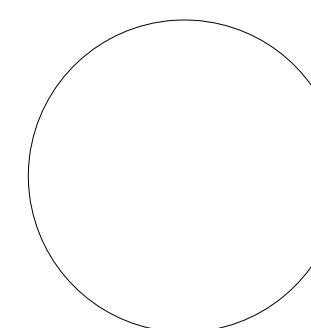
BOWERSOCK POWER PLANT EXPANSION

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Revisions:
02.23.2010 FOR SD PRICING
03.15.2010 FOR SUP

SCHEMATIC DESIGN DOCUMENTS

Permit/Pricing Set
Issue Date: 03.15.2010
Scale: AS NOTED
Project No.: 08260.010
Drawn By: KAN
Checked By: DMS
Title: FLOOR PLAN
ENLARGED PLANS

Sheet No.:

A104

Kissick Construction Co. will construct the cofferdam's upstream and downstream of the new Bowersock power facility, and dewater as necessary, this diverts the river around the project.

The silt curtain system described herein will be designed to mitigate wildlife concerns in the event the aforementioned cofferdam's become damaged or need repair during the period of time permits require protection to certain wildlife species.

Design will require Kissick Construction Co. to retain the services of an appropriately qualified professional, to assist with the following criteria.

Design considerations during the construction and maintenance of the wildlife protection barrier should consider the following factors:

- Wildlife protection barrier will possibly need to be installed and removed during high water events.
- Temporary anchors with navigation markers will need to be installed in at least two locations to accommodate quick mobilization and demobilization.
- Design loops in the system to enable the wildlife protection barrier to be demobilized in a very short period of time.
- Eliminate direct and indirect impacts to fish and wildlife individuals, populations, species and habitats.

