



STAFF REPORT
WEST ALLIS PLAN COMMISSION
Wednesday, May 29, 2024
6:00 PM

Room 128 – City Hall – 7525 W. Greenfield Ave.

- 2. Site, Landscaping, and Architectural Design Review for Novonesis (formerly CHR Hansen), an existing light industrial use, at 9015 W. Maple St. (Tax Key No. 451-1535-000).**

Overview and Zoning

Novonesis (formerly Chr. Hansen) is a global bioscience company that focuses on delivering natural innovative solution that address global challenges by advancing food, health, and productivity. Novonesis develops and produces cultures, enzymes, and probiotics for a variety of foods, confectionery, beverages, dietary supplements, animal feed, and plant protection.



Chr. Hansen, Inc. previously completed an expansion of its headquarters in West Allis in 2021 (Project Mighty – phase 1), a 20,000-sf production expansion on the west side of the campus. More recent in 2023 (Project THOR-phase 2) expansion/construction of a new 2-story, 40,250-sf/floor (81,000-sf total) expansion (within this total area contains a 27,000 sq. ft. - 55°C freezer for product storage, plus space for future labs). The third phase, also part of project THOR, is planned expansion on the northeast side of the campus.

The plans for the project, are pending corporate approval, include construction of a new 2-story, 50,000 sq. ft. expansion building for new production equipment. The site expansion will increase Novonesis'

production capacity at the West Allis site by approximately 60%. THOR stands for "Thunderously Higher Output Reached."

Existing building area: 164,000-sf

Proposed (w/THOR): 216,000-sf

Project and Operational info:

- Phase 2 construction approved by Plan Commission last April (Project THOR) began June of 2023, and will be complete August of 2024.
- Phase 3 construction (Project THOR-planned) expected to begin July 2024 with substantial completion in June 2026.
- Employment - The existing facility employs approximately 280 people.
- Hours of operation – The facility operates 3 shifts daily. Hours of operation will remain unchanged.
- Trucking to the site will increase from 7 to 12 trucks per day. The business currently receives about 7 trucks per day. All trucking, employee and visitor access comes in and out on S. 92 St. and will continue in this manner.
- A sound barrier was previously constructed on the north side of Chr. Hansen building surrounding Liquid Nitrogen tanks. This barrier was installed to reduce noise impacts on the neighborhood while unloading Liquid Nitrogen into the existing storage tanks. An additional four (4) liquid nitrogen tanks are planned, and sound wall adjustments are planned/shown on the site plan. The new building addition will also serve as an additional barrier. Liquid Nitrogen deliveries are expected between 7AM and 7PM. The trucks have pumps on their trailers to pump the liquid nitrogen into the tanks and some trailers can be louder than others. Novonesis is following up with the two liquid nitrogen suppliers to discuss further.
- This expansion will further strengthen Chr. Hansen's position as an industry leader in the Americas. The trajectory of the current business and future growth plans leave the company well positioned to invest in further expansions to the West Allis site. The estimated cost of development is about \$75 million.

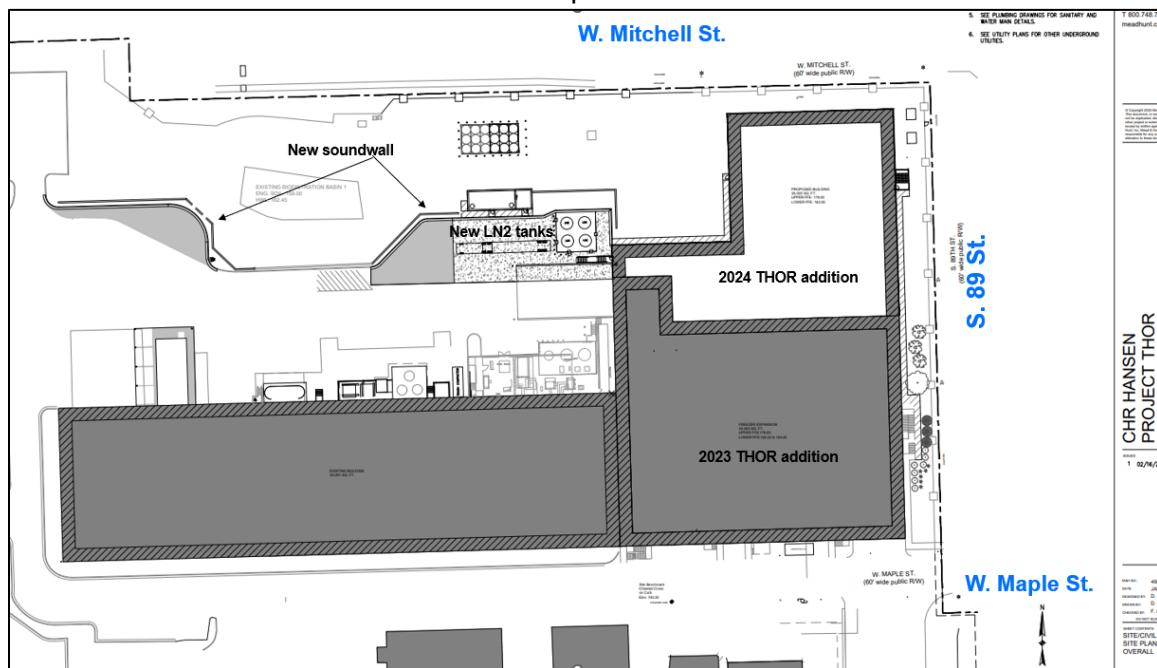


Zoning I-1, light industrial

The Chr Hansen bio-science operation is considered light industrial and permitted as a limited use.

Neighborhood outreach: Novonesis completed an Open House for the public on April 25th. The existing operations and proposed expansion project was discussed. The company also explained their ongoing construction project, and has/will continue to working with the City and the neighbors to minimize any disturbances. Any neighbor concerns, or for general information, please contact usinfo@chr-hansen.com.

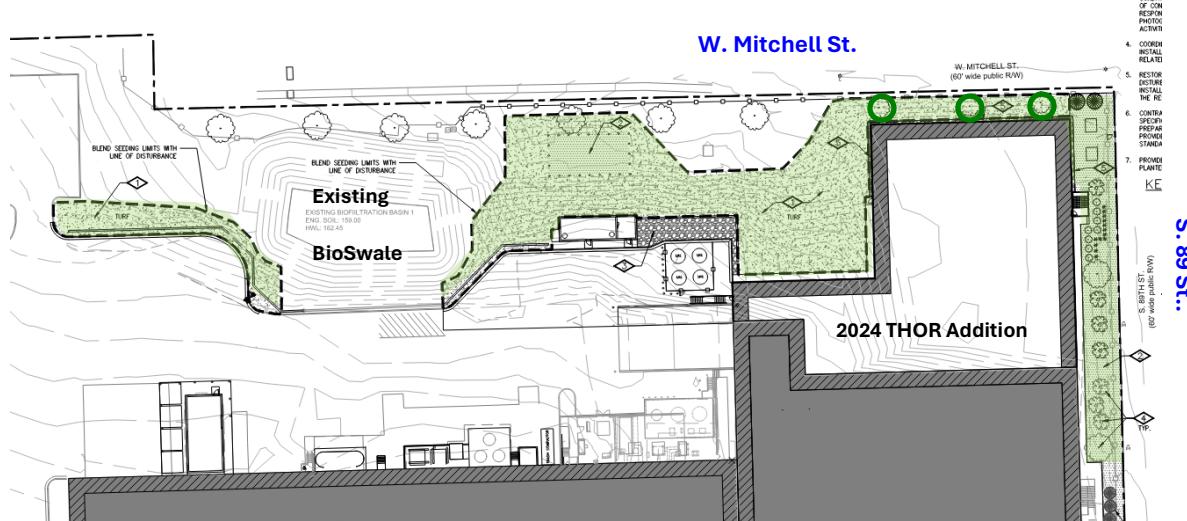
Plan Commission's role will include Site, Landscaping and Architectural design review consideration of the proposed addition for a 50,000-sf building addition on the northeast side of the campus.



BUILDING AREAS PER FREEZER ADDITION DRAWINGS:	ADMIN BUILDING	46,255 S.F.
	COLOR BUILDING	23,128 S.F.
	MAINTENANCE BUILDING	7,121 S.F.
	1976 CULTURE BUILDING	32,094 S.F.
	2003 EAST ADDITION	27,680 S.F.
	2020 MIGHTY BUILDING	22,916 S.F.
	2023 FREEZER ADDITION	81,541 S.F.
	2024 THOR ADDITION	50,204 S.F.
	2024 BULK CHEMICAL BUILDING	608 S.F.
	2024 BLOWER ADDITION	1,274 S.F.
	TOTAL PARKING REQUIRED:	

Site, Landscaping and Architectural Plans

The plans submitted show the new 50,000-sf THOR building addition located on the north side of the recently completed (2023) freezer building addition. New landscaping will be installed between the new building addition and the existing fence/property line (east and north sides of the site). The existing ornamental fence will remain and/or be replaced after construction.



Three existing deciduous street trees exist today within the terrace area between the sidewalk and curb line with W. Mitchell St. Additionally, three new Norway Spruce trees and two arborvitae (6-ft at time of planting) will be installed on the Novonesis site on the north side of the new building addition. The existing and new trees will help soften the vertical appearance of the new building. Any existing landscaping damaged during construction will be replaced. The existing W. Mitchell St. driveway on the north side of the site near S. 89 St. will be removed and replaced with street curb and greenspace. The north end of the site will be re-graded to better slope existing grades and increase greenspace between buildings and the 12-ft tall soundwall. The overall campus greenspace percentage is about 25%.

PLANT SCHEDULE					
TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY.
	PD	PICEA GLAUCA 'DENSATA' / BLACK HILLS WHITE SPRUCE	6' HT.	B&B	5
	TP	THURJA OCCIDENTALIS 'HETZ WINTERGREEN' / HETZ WINTERGREEN ARBORVITAE	5' HT.	CONT.	3
EVERGREEN TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY.
	PA	PICEA ABIES / NORWAY SPRUCE	6' HT.	CONT.	13
DECIDUOUS SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY.
	AL	ARONIA MELANOCARPA 'UCONNAM165' / LOW SCRAPE MOUND® BLACK CHOKBERY	3 GAL.	CONT.	3
ORNAMENTAL GRASSES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY.
*	PN2	PANICUM VIRGATUM 'NORTHWIND' / NORTHWIND SWITCH GRASS	1 GAL.	CONT.	3

Architectural Plans

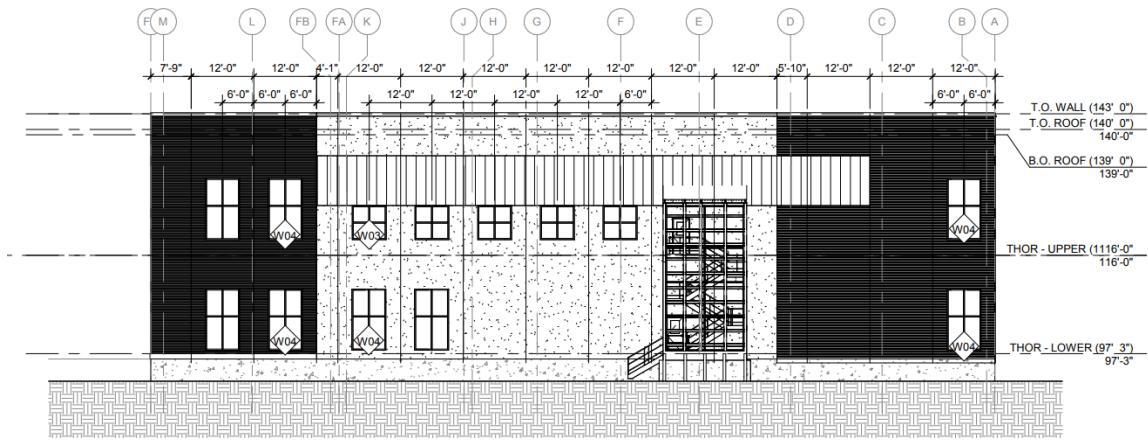
Exterior materials for the new addition will predominantly include precast concrete panels in a light brown color to match the existing building. There are also other complementary materials including brown pre-cast concrete panels with horizontal reveals and a precast ribbed green band. Window openings are introduced on all three sides of the THOR addition (east, north , and west) One new covered exterior switchback staircase is shown on the east side of the new building addition. The new exterior staircase will feature a screen wall for some transparency, but with the primary purpose of offering shelter and softening the look of an exterior staircase.

The new building addition height is about 46-ft above grade.

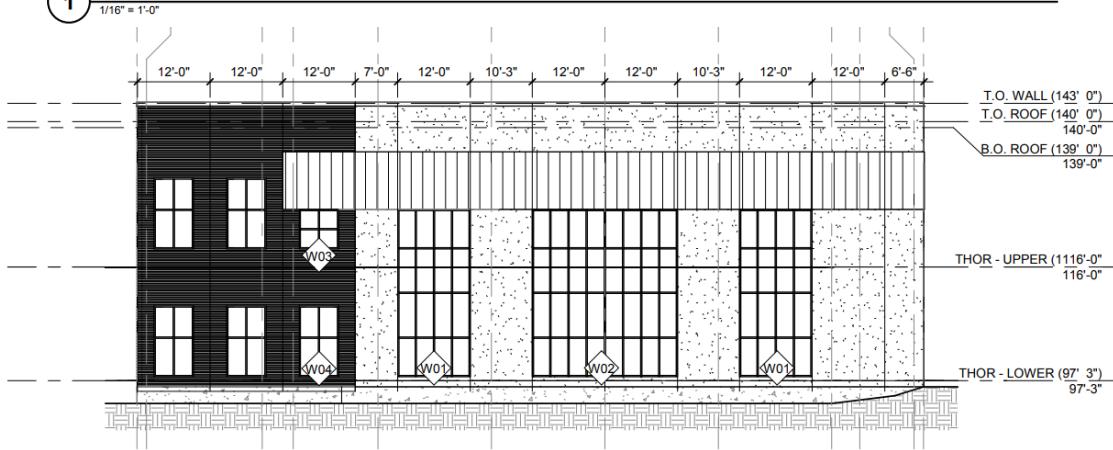


Views: Looking SW from the corner of S. 89th and Mitchell St.

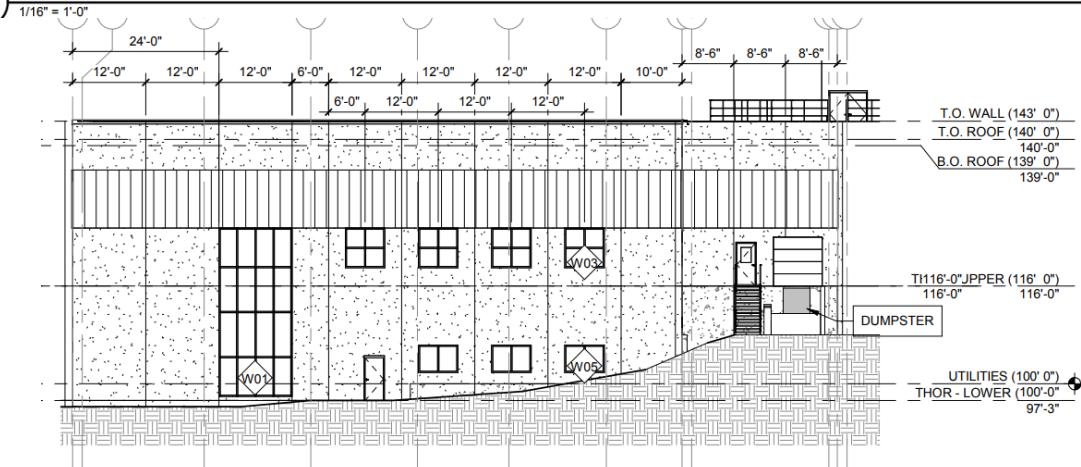
Roof top units will be adequately screened on the new building.



1 THOR - EAST ELEVATION



2 THOR - NORTH ELEVATION



3 THOR - WEST ELEVATION

1/16" = 1'-0"

Storm water Management

A storm water management plan has been submitted for review. An existing bio-filtration basin was installed previously within the north yard area. There is also an existing underground retention system that was added previously on the northwest side of the site under the newer parking areas. Storm water plans are reviewed by AECOM for compliance with MMSD (Milwaukee Metro Sewerage District) regulations.

The development project consists of the construction of an approximate 50,000-sf expansion building. The added impervious area of the site improvements (building expansion) will accommodate stormwater runoff within the existing storm water detention system to meet the storm water requirements for the project. Under the developed conditions, storm water from the development area will be conveyed by proposed storm sewer to proposed storm water biofiltration basins. The proposed biofiltration basin was also sized with foresight that another expansion building will be built to the north of the proposed expansion in the future. The biofiltration basin has been designed to accommodate the THOR expansion.

Off-street Parking

A new parking lot was developed leading up to the last phase of expansion and is located near 92nd Street. Existing parking = 299 stalls (9 ADA). Employee, visitor and all trucking trips will continue to use S. 92 St. to access the CHR Hansen site.

Recommendation: Approval of the Site, Landscaping, and Architectural Design Review for Novonesis (formerly CHR Hansen), an existing light industrial use, at 9015 W. Maple St. (Tax Key No. 451-1535-000), subject to the following conditions:

(Items 1 through 4 are required to be satisfied prior to any work being done that is associated with the proposal reviewed by Plan Commission. Contractors applying for permits should be advised accordingly.)

1. Revised Site, Landscaping, and Architectural Plans being submitted to the Department of Development to show the following: (a) coordination with Engineering Department on location of water lines with respect to location of electrical transformers, relocating of sanitary line away from staircase foundation, and water and sanitary capacity (b) landscaping plan revisions per City Forestry recommendations, (c) public relations/coordination with neighborhood on upcoming construction process and progress updates. Contact Steven Schaer, Manager of Planning and Zoning at 414-302-8466.

2. A Street excavation permit being applied for in OpenGov prior to work beginning. Any concrete work in the right of way needs to be completed by a licensed and pre-qualified contractor within the City of West Allis. Contact Greg Bartelme at (414) 302-8367.
3. Documentation and approval showing compliance with the City of West Allis Storm water Management Ordinance, to be submitted to the Building Inspections and Neighborhood Services Department by a registered Civil Engineer. A storm water permit must be obtained from the City. Contact Mike Romans, Plumbing Inspector at 414-302-8413.

(Remaining conditions of approval to be satisfied by the property owner within one year of Plan Commission approval)

4. Compliance with Section 2814 of the City's Policy and Procedures Manual relative to that policy as it relates to the replacement and repair to City walkways of damaged or defective (if any) abutting sidewalk.

Novonesis Plan Commission Summary

Novonesis (formerly Chr. Hansen) is a global bioscience company that focuses on delivering natural innovative solution that address global challenges by advancing food, health, and productivity. Novonesis develops and produces cultures, enzymes, and probiotics for a variety of foods, confectionery, beverages, dietary supplements, animal feed, and plant protection.

Novonesis previously completed an expansion of its site at 9015 W. Maple St. in 2021 and is currently constructing a further building expansion, approved by the City of West Allis in 2023. Novonesis is now bringing its plans for a subsequent expansion of its West Allis site to the City of West Allis Plan Commission for site, landscaping, and architectural review.

The plans for the project, pending corporate approval, include construction of a new 2-story, 50,000 sq. ft. expansion building for new production equipment. The site expansion will increase Novonesis' production capacity at the West Allis site by approximately 60%.

The existing noise barrier on the north side of Novonesis' property will be modified to enclose installations as part of this project. A stormwater detention system installed as part of Novonesis'-55°C Freezer project, currently in construction, was sized for stormwater from this expansion project. Green space north of the site's existing parking lots will be utilized for construction trailers and material staging areas.

Construction will be executed in a single phase beginning at the end of July 2024 with substantial completion in June 2026.

Hours of operation will remain unchanged.

This expansion will further strengthen Novonesis' position as an industry leader in the Americas. The trajectory of the current business and future growth plans leave the company well positioned to invest in further projects at the West Allis site.

LEGEND

RED	ROOF AREA
ORANGE	IMPERVIOUS AREA
GREEN	PERVIOUS AREA
BLUE	POND AREA

EXISTING CONDITIONS

TOTAL AREA = 541,429 SF / 12.43 AC
 PERVIOUS AREA = 164,439 SF / 3.78 AC
 ROOF AREA = 128,074 SF / 2.94 AC
 IMPERVIOUS AREA = 245,849 SF / 5.64 AC
 POND AREA = 3,067 SF / 0.07 AC

© Copyright 2024 Mead & Hunt, Inc.
 This document, or any portion thereof, shall
 not be duplicated, disclosed, or used on any
 other project or extension of this project
 except by written agreement with Mead &
 Hunt, Inc. Mead & Hunt, Inc. shall be
 responsible for any unauthorized use of, or
 alteration to these documents.

PROPOSED CONDITIONS

TOTAL AREA = 541,429 SF / 12.43 AC
 PERVIOUS AREA = 127,430 SF / 2.93 AC
 ROOF AREA = 154,309 SF / 3.54 AC
 IMPERVIOUS AREA = 256,623 SF / 5.89 AC
 POND AREA = 3,067 SF / 0.07 AC

INCREASE/DECREASE

TOTAL AREA = NO CHANGE
 PERVIOUS AREA = -37,009 SF / 0.85 AC
 ROOF AREA = +10,774 SF / 0.25 AC
 IMPERVIOUS AREA = +26,235 SF / 0.60 AC
 POND AREA = NO CHANGE

LEGEND

RED	ROOF AREA
ORANGE	IMPERVIOUS AREA
GREEN	PERVIOUS AREA
BLUE	POND AREA

EXISTING CONDITIONS

TOTAL AREA = 541,429 SF / 12.43 AC
 PERVIOUS AREA = 164,439 SF / 3.78 AC
 ROOF AREA = 128,074 SF / 2.94 AC
 IMPERVIOUS AREA = 245,849 SF / 5.64 AC
 POND AREA = 3,067 SF / 0.07 AC

© Copyright 2024 Mead & Hunt, Inc.
 This document, or portions thereof, shall
 not be duplicated, disclosed, or used on any
 other project or extension of this project
 except by written agreement with Mead &
 Hunt, Inc. Mead & Hunt, Inc. shall be
 responsible for any unauthorized use of, or
 alteration to these documents.

PROPOSED CONDITIONS

TOTAL AREA = 541,429 SF / 12.43 AC
 PERVIOUS AREA = 127,430 SF / 2.93 AC
 ROOF AREA = 154,309 SF / 3.54 AC
 IMPERVIOUS AREA = 256,623 SF / 5.89 AC
 POND AREA = 3,067 SF / 0.07 AC

INCREASE/DECREASE

TOTAL AREA = NO CHANGE
 PERVIOUS AREA = -37,009 SF / 0.85 AC
 ROOF AREA = +10,774 SF / 0.25 AC
 IMPERVIOUS AREA = +26,235 SF / 0.60 AC
 POND AREA = NO CHANGE



SCALE: 1" = 40'-0"

GENERAL NOTES:

- SEE DWG L-02 FOR LANDSCAPE DETAILS
- VERIFY EXISTING AND PROPOSED CONDITIONS, UTILITIES, PIPES AND STRUCTURES, ETC. PRIOR TO BIDDING AND CONSTRUCTION.
- INSPECT AND THE SITE PRIOR TO COMMENCING WORK. DOCUMENT IN WRITING AND PHOTOGRAPH EXISTING CONDITIONS WITH, AND IN AREAS ADJACENT TO THE LIMITS OF CONSTRUCTIONS. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES NOT DOCUMENTED IN THE PHOTOGRAPHS PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITIES.
- COORDINATE THE INSTALLATION OF PLANT MATERIAL WITH INSTALLATION OF ADJACENT PAVEMENTS, DRAINAGE, CURB RELATED STRUCTURES WITH OTHER TRADES.
- RESTORE AREA F THE SITE, ORA ADJACENT AREA, WHERE DISTURBED. DAMAGE CAUSED DURING LANDSCAPE INSTALLATION TO EXISTING CONDITIONS AND IMPROVEMENTS IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- CONTRACTOR SHALL THOROUGHLY REVIEW ALL SPECIFICATIONS RELATED TO TREE PROTECTION, SOIL PREPARATION, TURF, GRASSES AND PLANTS. THESE SECTIONS PROVIDE ADDITIONAL INFORMATION ON MATERIALS AND SET STANDARDS FOR QUALITY AND INSTALLATION REQUIREMENTS.
- PROVIDE 3" DOUBLE SHREDDED PARK MULCH FOR ALL PLANTED TREES, SHRUBS AND LANDSCAPE BEDS.

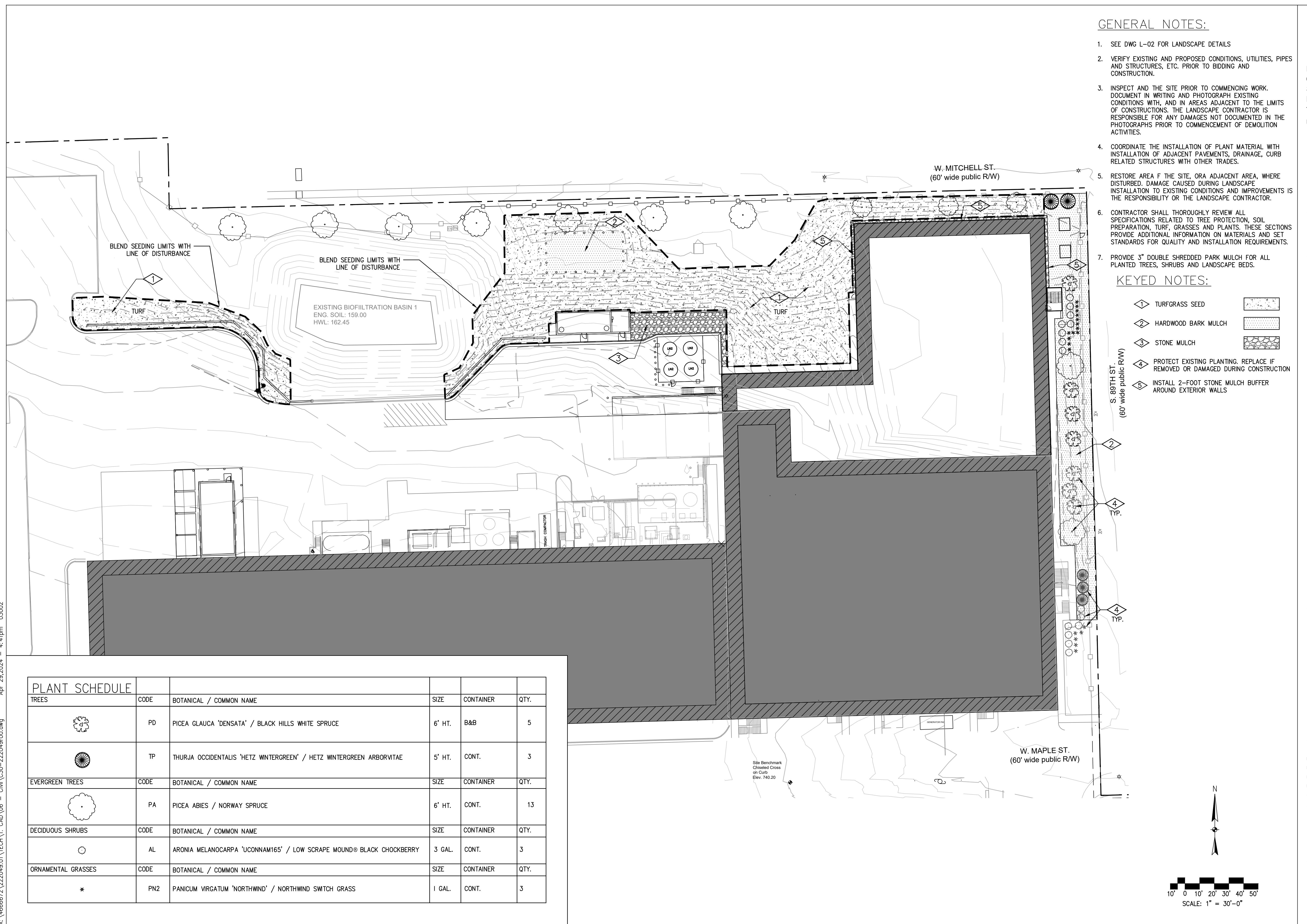
© Copyright 2024 Mead & Hunt, Inc.
This document, or parts thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt, Inc. is responsible for any unauthorized use of, or alteration to these documents.

Chr Hansen Inc.
9015 W. Maple West Allis, WI 53214
www.chr-hansen.com

**CHR HANSEN
PROJECT THOR**

CHR HANSEN

ISSUED
1 02/16/24 PERMIT ISSUE
2 04/30/24 PERMIT ISSUE
REV.1











novonesis

CHR. HANSEN, PART OF NOVONESIS GROUP,
INVITES YOU TO JOIN US FOR AN

Open House

THURSDAY, APRIL 25TH

5:00pm - 6:30pm

9015 W. Maple St | Milwaukee, WI 53214

Come and ask questions about our expansion project(s),
our recent merger with Novozymes to create Novonesis
and how we are contributing to the growth of West Allis.

We hope to see you there!

*Please RSVP to Anna Stuckart at
ANSTU@NOVONESIS.COM*

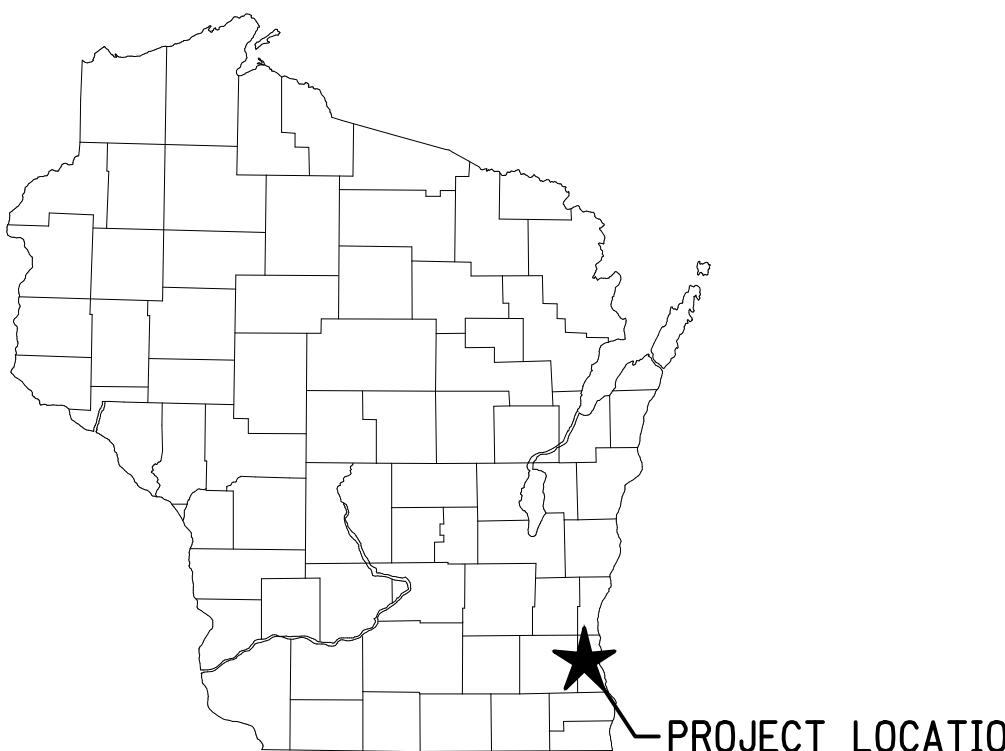
Food samples with our products will be served along with refreshments

PROJECT THOR FOR

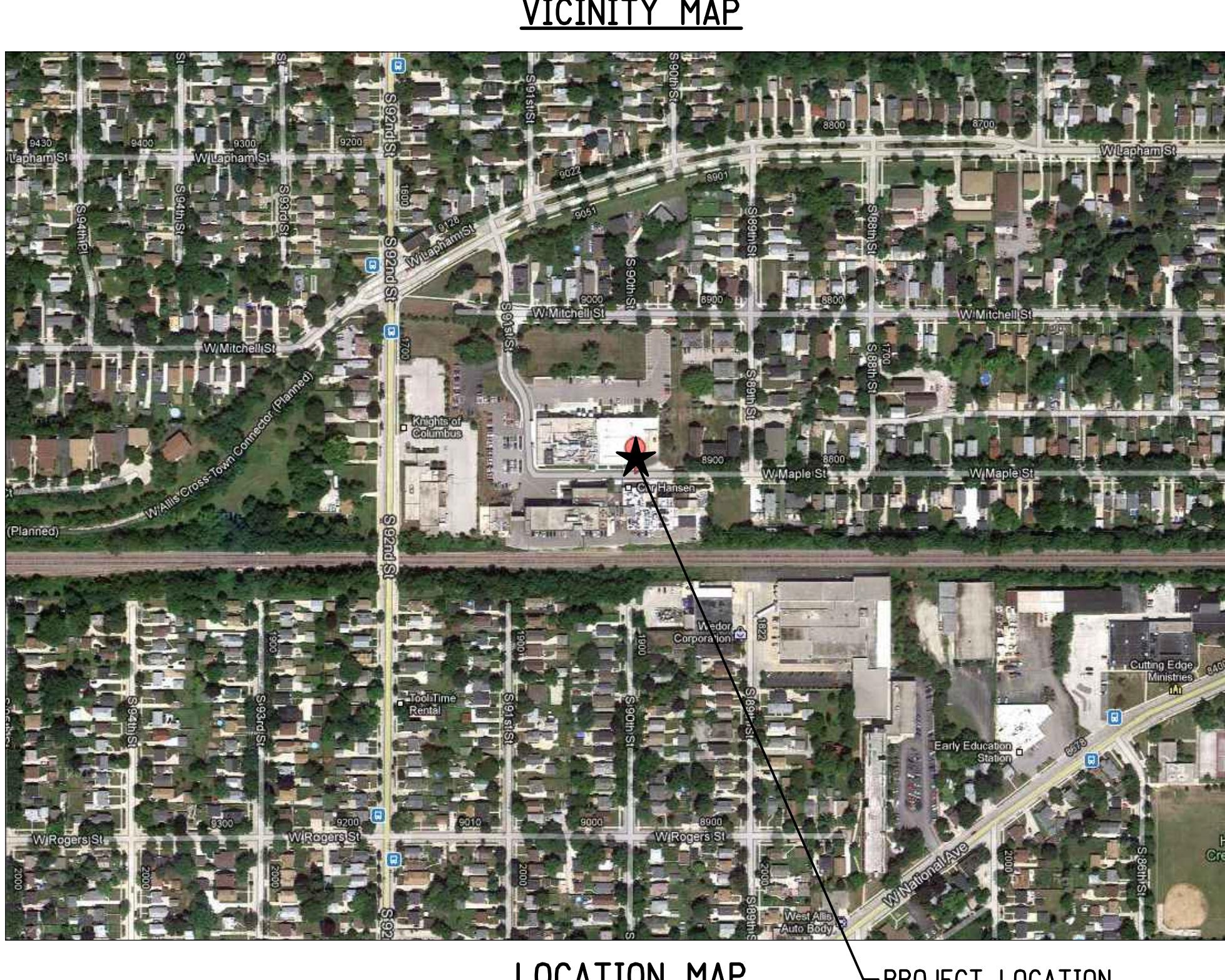
CHR HANSEN

WEST ALLIS, WISCONSIN CHR HANSEN PROJECT # MKE-037

PROJECT LOCATION



PROJECT LOCATION



VICINITY MAP

LOCATION MAP
PROJECT LOCATION



DRAWINGS PREPARED BY

Mead & Hunt

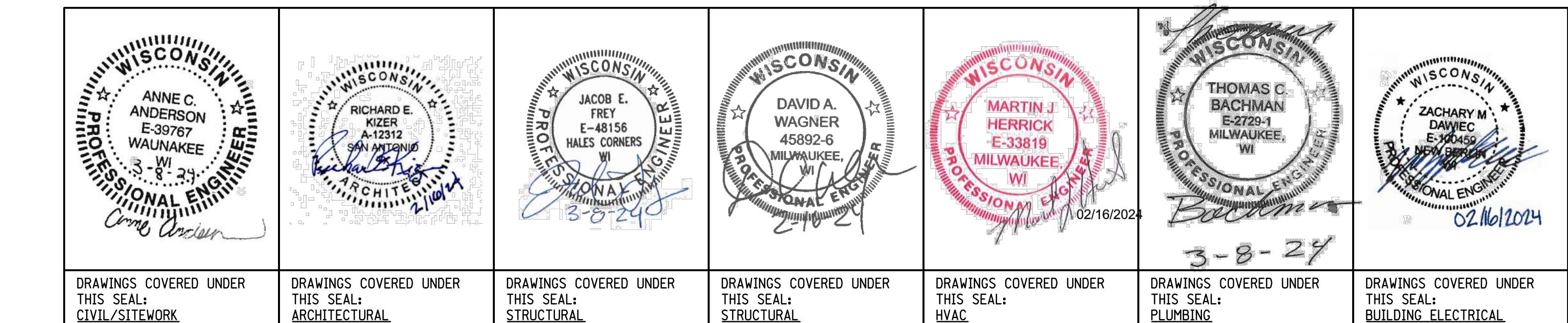
6737 West Washington Street, Suite 3500
Milwaukee, WI 53214-5648
T 800.748.7423 | meadhunt.com

PROJECT ADDRESS

CHR. HANSEN
9015 W. MAPLE
WEST ALLIS, WI 53214

SITE PARKING INFORMATION

BUILDING AREAS PER FREEZER ADDITION DRAWINGS:	PARKING @ 1/1500 S.F.
ADMIN BUILDING	46,255 S.F. 31 -
COLOR BUILDING	23,128 S.F. 0 -
MAINTENANCE BUILDING	7,121 S.F. 0 -
1976 CULTURE BUILDING	32,094 S.F. 22 -
2003 EAST ADDITION	27,680 S.F. 19 -
2020 MIGHTY BUILDING	22,916 S.F. 16 -
2023 FREEZER ADDITION	81,541 S.F. 0 -
2024 THOR ADDITION	50,204 S.F. 34 -
2024 BULK CHEMICAL BUILDING	608 S.F. 0 -
2024 BLOWER ADDITION	1,274 S.F. 0 -
TOTAL PARKING REQUIRED:	122



DRAWINGS COVERED UNDER THIS SEAL:
CIVIL/SITEWORK

DRAWINGS COVERED UNDER THIS SEAL:
ARCHITECTURAL

DRAWINGS COVERED UNDER THIS SEAL:
STRUCTURAL

DRAWINGS COVERED UNDER THIS SEAL:
STRUCTURAL

DRAWINGS COVERED UNDER THIS SEAL:
HVAC

DRAWINGS COVERED UNDER THIS SEAL:
PLUMBING

DRAWINGS COVERED UNDER THIS SEAL:
BUILDING ELECTRICAL

PERMIT ISSUE
MARCH 2024

CHR HANSEN PROJECT THOR

CHR HANSEN

ISSUED
1 02/16/24 PERMIT ISSUE

M&H NO.: 4666672-222049.01
DATE: JANUARY 2024
DESIGNED BY: D. CHAPMAN
DRAWN BY: D. CHAPMAN
CHECKED BY: F. FINUCANE
DO NOT SCALE DRAWINGS

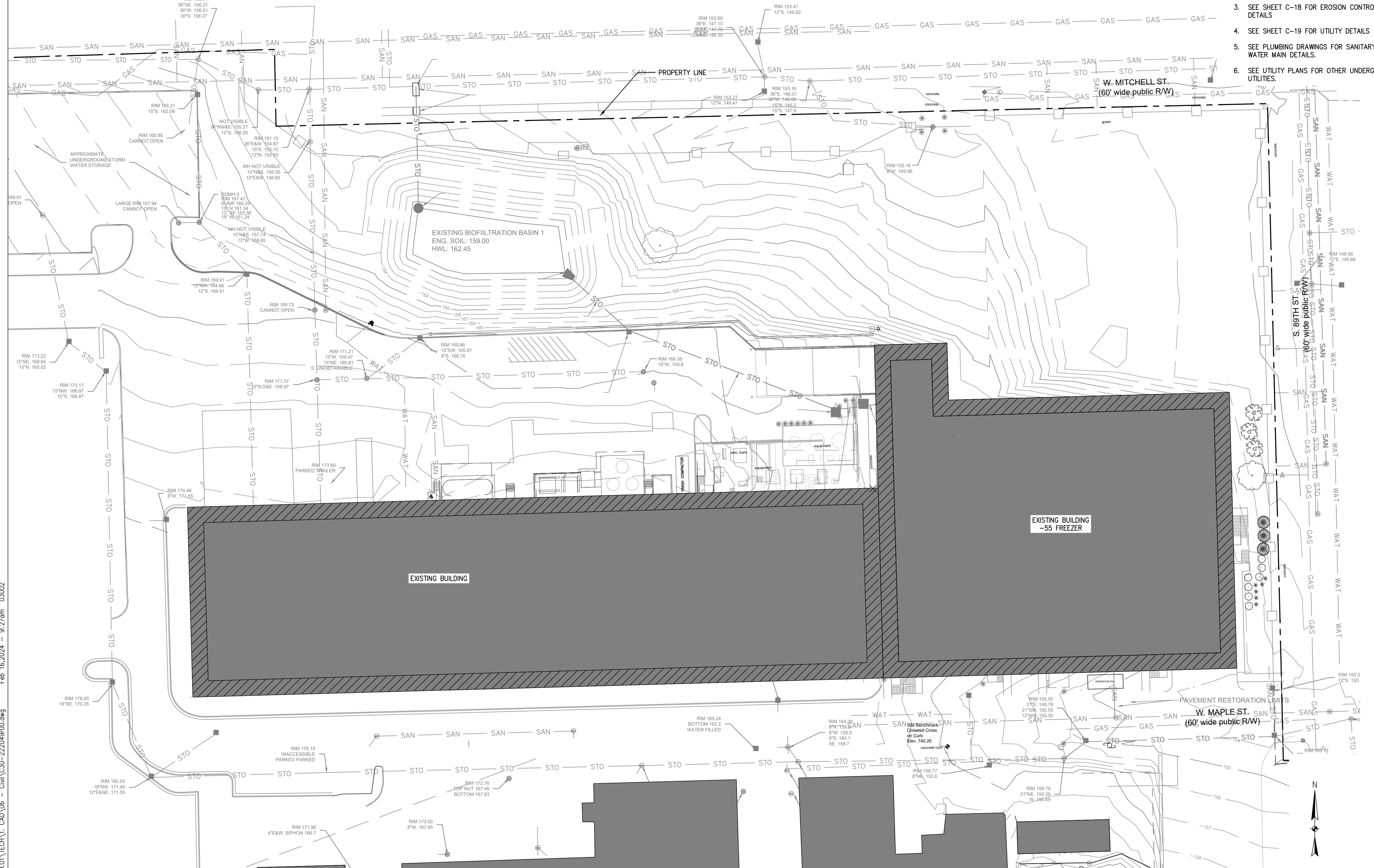
SHEET CONTENTS
SITE/CIVIL
SITE SURVEY

SHEET NO.:

10' 0' 10' 20' 30' 40' 50'
SCALE: 1" = 30'-0"

GENERAL NOTES:

- SEE SHEET C-11 FOR STORM SEWER SECTIONS.
- SEE SHEET C-17 FOR STANDARD SITE DETAILS.
- SEE SHEET C-18 FOR EROSION CONTROL DETAILS.
- SEE SHEET C-19 FOR UTILITY DETAILS.
- SEE PLUMBING DRAWINGS FOR SANITARY AND WATER MAIN DETAILS.
- SEE UTILITY PLANS FOR OTHER UNDERGROUND UTILITIES.



C-02

© Copyright 2024 Mead & Hunt, Inc.
This document, or portions thereof, shall
not be duplicated, disclosed, or used on any
other project or extension of this project
except by written agreement with Mead &
Hunt, Inc. Mead & Hunt, Inc. shall be
responsible for any unauthorized use of, or
alteration to these documents.

CHR HANSEN PROJECT THOR

CHR HANSEN

ISSUED
1 02/16/24 PERMIT ISSUE

M&H NO.: 4666672-222049.01
DATE: JANUARY 2024
DESIGNED BY: D. CHAPMAN
DRAWN BY: D. CHAPMAN
CHECKED BY: F. FINUCANE
DO NOT SCALE DRAWINGS

SHEET CONTENTS
SITE/CIVIL
EROSION CONTROL
DEMO PLAN

SHEET NO.:

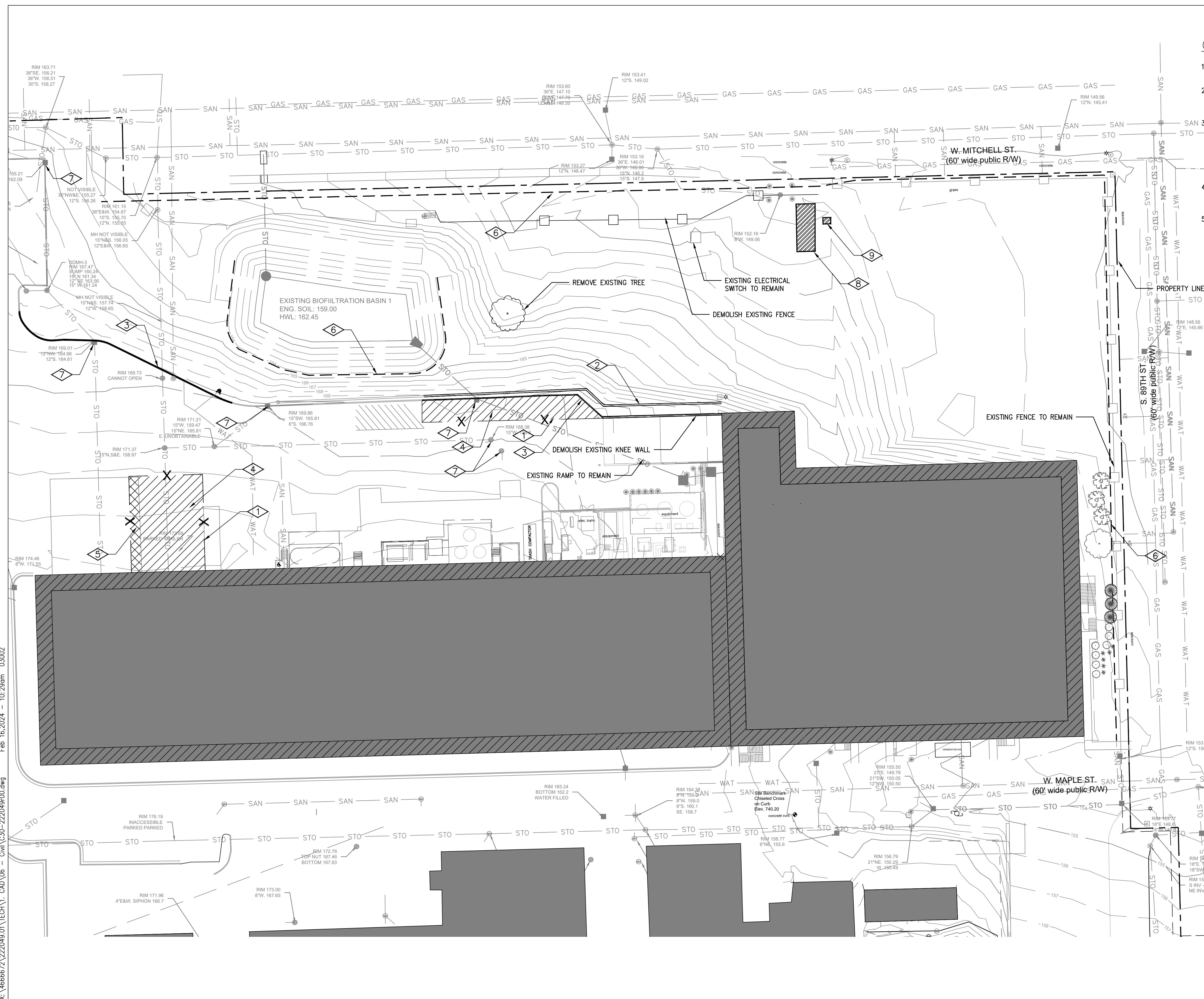
10' 0' 10' 20' 30' 40' 50'
SCALE: 1" = 30'-0"

GENERAL NOTES:

- SEE DWG C-17 FOR STANDARD SITE DETAILS AND DWG C-18 FOR EROSION CONTROL DETAILS.
- ALL WORK SHALL CONFORM WITH CHR HANSEN SPECIFICATIONS, STANDARDS AND GOOD MANUFACTURING PRACTICES (GMP'S).
- CONTROLLING SEDIMENT TRANSPORT AND PREVENTING AND/OR CORRECTING PROBLEMS ASSOCIATED WITH THE EROSION AND RUNOFF PROCESSES WHICH COULD OCCUR BOTH DURING AND AFTER PROJECT CONSTRUCTION WILL BE CLOSELY MONITORED. PERIODIC MAINTENANCE AND INSPECTION OF SEDIMENT CONTROL DEVICES WILL BE SCHEDULED.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT PIT LOCATIONS WITH THE ENGINEER AND OWNER.
- EXCAVATION AND EMBANKMENT OPERATIONS SHALL PROCEED IN SUCH A MANNER SO THAT FINISHING OF SLOPES, INCLUDING REVEGETATION, SHALL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER ROUGH GRADING. ALL SLOPES 2:1 OR FLATTER SHALL BE SCARIFIED WITH HEAVY EQUIPMENT, LEAVING TRACKS PERPENDICULAR TO THE SLOPE. THE TOPS OF ALL CUT SLOPES IN SOIL SHALL BE ROUNDED FOR A HORIZONTAL DISTANCE OF THREE FEET BEYOND THE CATCH POINT. SLOPE ROUNDING SHALL OCCUR AS THE SLOPE IS BEING BROUGHT DOWN. THE OVERALL SHAPE, HEIGHT AND GRADE OF ANY CUT AND/OR FILL SLOPE SHALL BE DEVELOPED IN CONCERT WITH THE EXISTING NATURAL CONTOURS, SCALE AND VEGETATION OF NATURAL TERRAIN.

KEYED NOTES:

- ◇ SAWCUT EXISTING PAVEMENT
- ◇ REMOVE EXISTING SOUND WALL
- ◇ REMOVE EXISTING CURB AND GUTTER
- ◇ REMOVE EXISTING ASPHALT PAVEMENT
- ◇ REMOVE EXISTING CONCRETE PAVEMENT
- ◇ INSTALL SILT FENCE PER 02100
- ◇ INSTALL STORM INLET PROTECTION PER 02150
- ◇ INSTALL CONSTRUCTION ENTRANCE PER 02160
- ◇ INSTALL CONCRETE WASHOUT PIT PER 02170



© Copyright 2024 Mead & Hunt, Inc.
This document, or parts thereof, shall
not be duplicated, disclosed, or used on any
other project or extension of this project
except by written agreement with Mead &
Hunt, Inc. Mead & Hunt, Inc. shall be
responsible for any unauthorized use of, or
alteration to these documents.

CHR HANSEN PROJECT THOR

CHR HANSEN

ISSUED

1 02/16/24 PERMIT ISSUE

M&H NO.: 4666672-222049.01
DATE: JANUARY 2024
DESIGNED BY: D. CHAPMAN
DRAWN BY: D. CHAPMAN
CHECKED BY: F. FINUCANE
DO NOT SCALE DRAWINGS

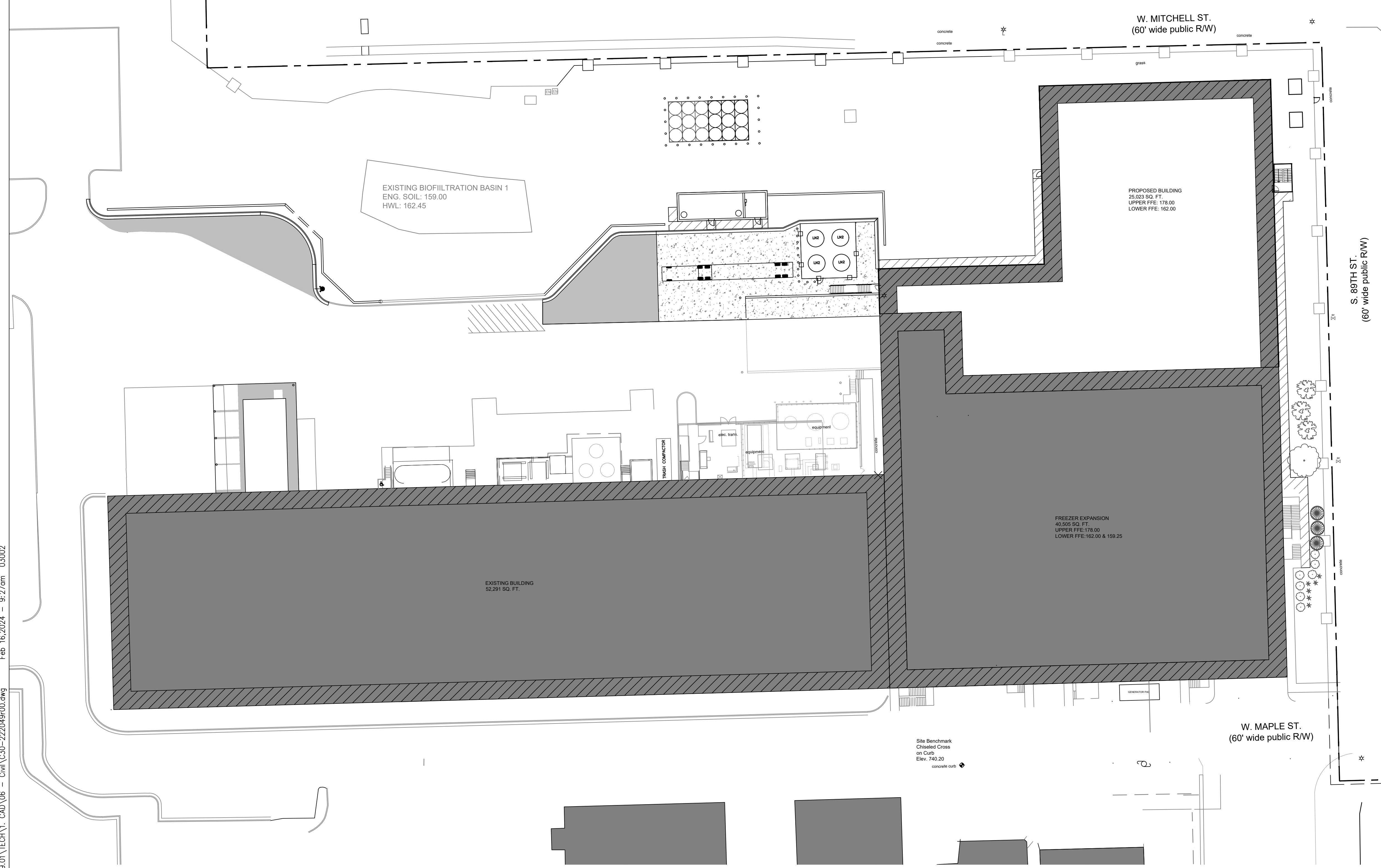
SHEET CONTENTS
SITE/CIVIL
SITE PLAN
OVERALL

SHEET NO.:

C-04

GENERAL NOTES:

- SEE SHEET C-11 FOR STORM SEWER SECTIONS.
- SEE SHEET C-17 FOR STANDARD SITE DETAILS.
- SEE SHEET C-18 FOR EROSION CONTROL DETAILS
- SEE SHEET C-19 FOR UTILITY DETAILS
- SEE PLUMBING DRAWINGS FOR SANITARY AND WATER MAIN DETAILS.
- SEE UTILITY PLANS FOR OTHER UNDERGROUND UTILITIES.



© Copyright 2024 Mead & Hunt, Inc.
This document, or any portion thereof, shall
not be duplicated, disclosed, or used on any
other project or extension of this project
except by written agreement with Mead &
Hunt, Inc. Mead & Hunt, Inc. shall be
responsible for any unauthorized use of, or
alteration to these documents.

CHR HANSEN PROJECT THOR

CHR HANSEN

Chr Hansen Inc.
9015 W. Maple West Allis, WI 53214
www.chr-hansen.com

ISSUED
1 02/16/24 PERMIT ISSUE

M&H NO.: 4666672-222049.01
DATE: JANUARY 2024
DESIGNED BY: D. CHAPMAN
DRAWN BY: D. CHAPMAN
CHECKED BY: F. FINUCANE
DO NOT SCALE DRAWINGS

SHEET CONTENTS
SITE/CIVIL
SITE PLAN
WEST

SHEET NO.:

C-05

5' 0" 10' 20' 30'
SCALE: 1" = 20'-0"

GENERAL NOTES:

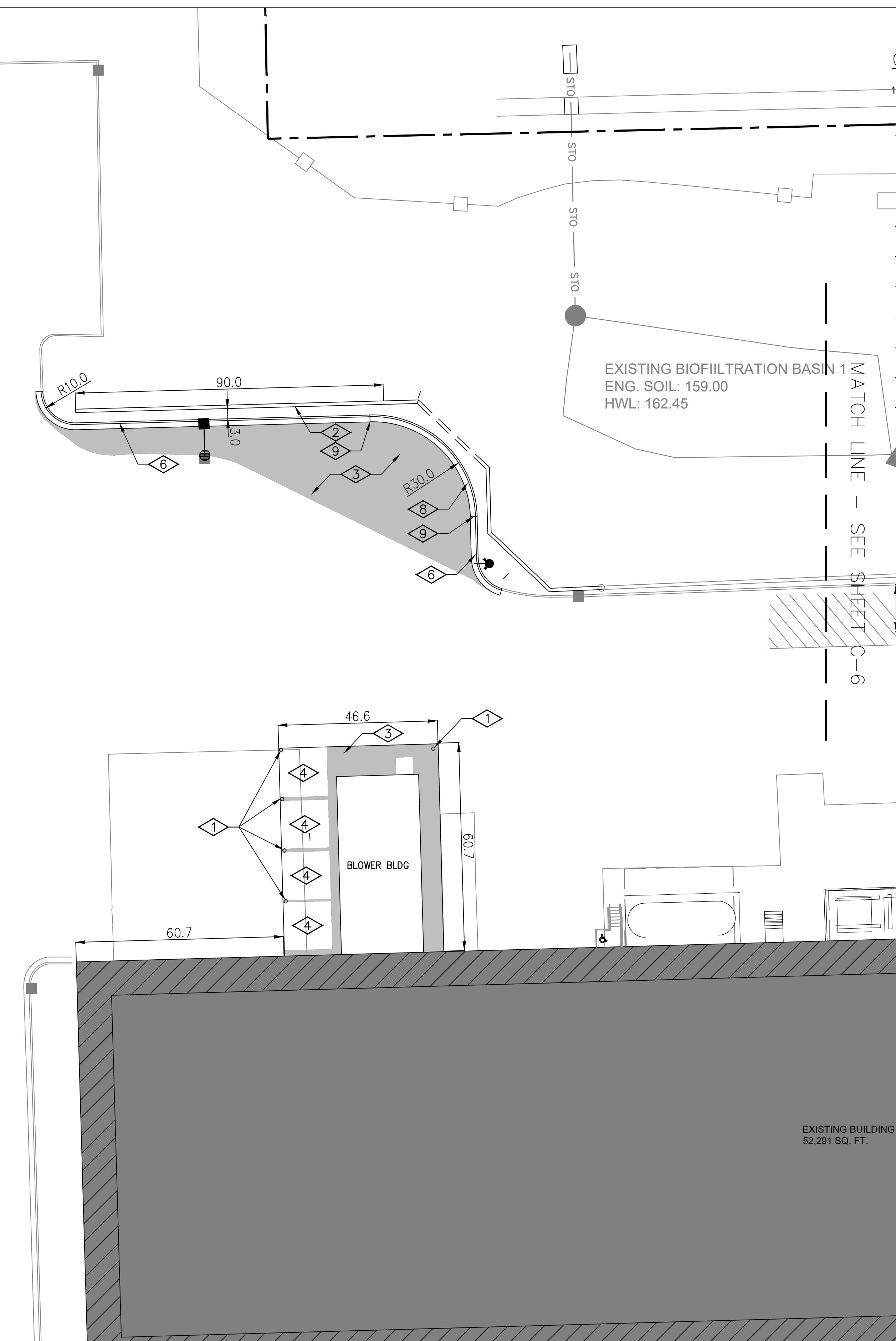
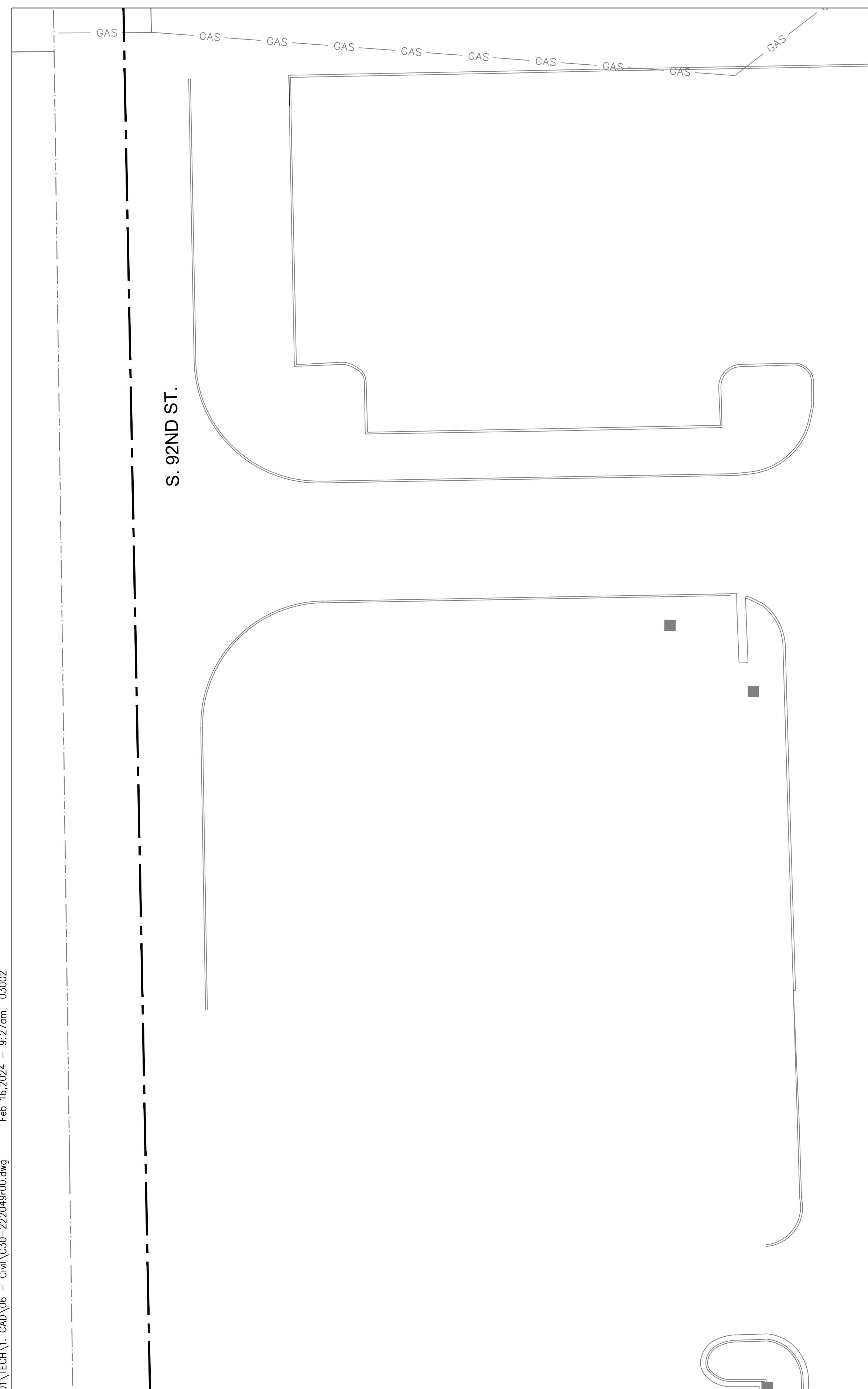
1. SEE DWG C-17 FOR STANDARD SITE DETAILS

KEYED NOTES:

- ① INSTALL BOLLARD PER 02515
- ② INSTALL SOUND WALL
- ③ INSTALL ASPHALT PAVEMENT PER 02401
- ④ 14' X 14' CONCRETE TANK PAD
SEE STRUCTURAL PLAN
- ⑤ NOT USED
- ⑥ INSTALL 6-INCH CURB (RECEIVE) PER 02500
- ⑦ NOT USED
- ⑧ INSTALL ROLLED CURB PER 02502
- ⑨ TRANSITION CURB TYPES

EXISTING BIOFILTRATION BASIN 1
ENG. SOIL: 159.00
HWL: 162.45

MATCH LINE - SEE SHEET C-6



GENERAL NOTES:

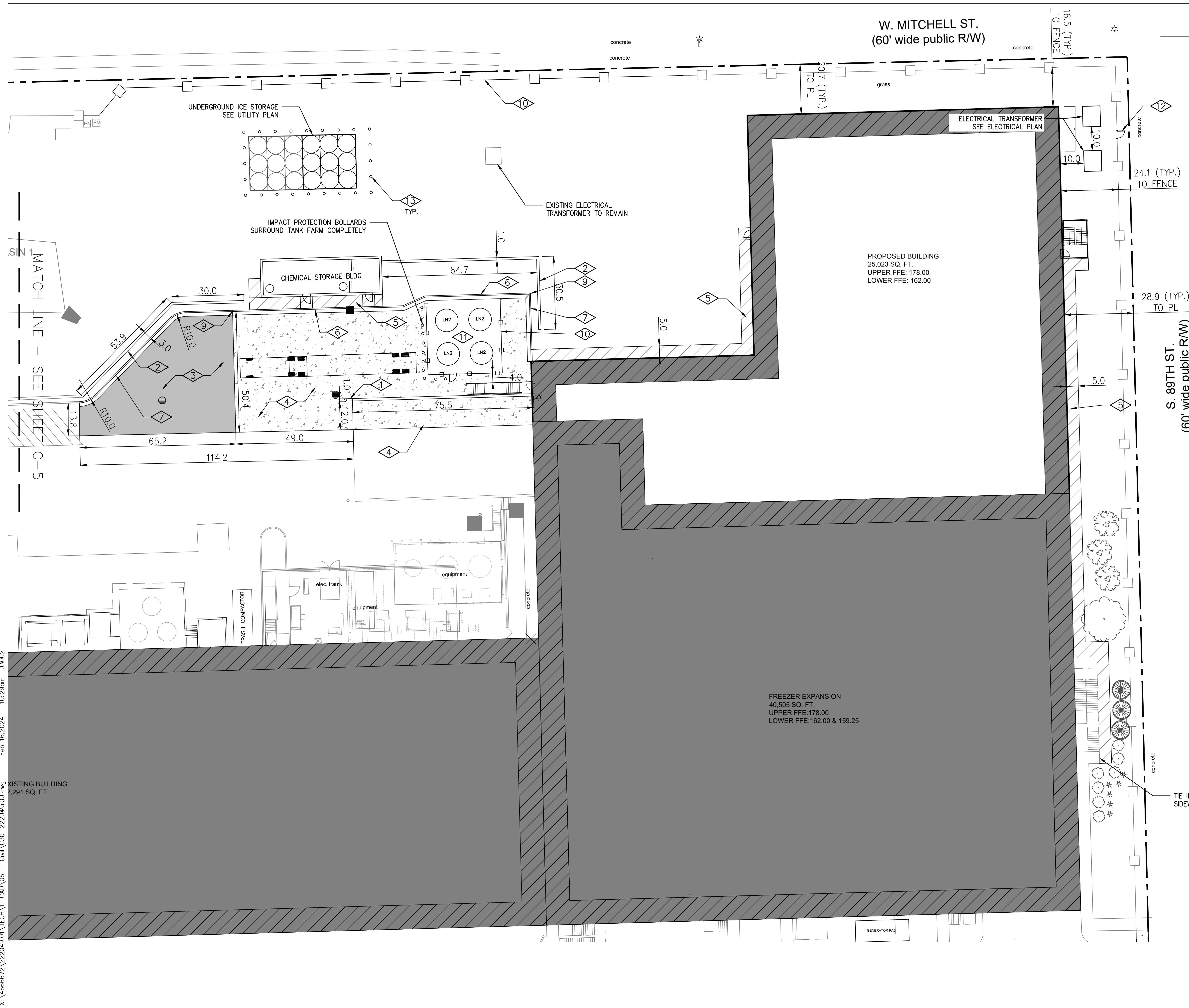
1. SEE DWG C-17 FOR STANDARD SITE DETAILS

KEYED NOTES:

- ① INSTALL BOLLARD PER ②515
- ② INSTALL SOUND WALL SEE DETAIL SHEET C-12
- ③ INSTALL ASPHALT PAVEMENT PER ②401
- ④ INSTALL CONCRETE PAVEMENT PER ②402
- ⑤ INSTALL CONCRETE SIDEWALK PER ②403
- ⑥ INSTALL 6-INCH CURB (RECEIVE) PER ②500
- ⑦ INSTALL 6-INCH CURB (REJECT) PER ②501
- ⑧ NOT USED
- ⑨ TRANSITION CURB TYPES
- ⑩ INSTALL FENCE AND GATE PER ③000
- ⑪ 31' X 31' CONCRETE TANK PAD SEE STRUCTURAL PLAN
- ⑫ INSTALL GATE IN EXISTING FENCE PER ③000
- ⑬ INSTALL BOLLARD WITH CHAIN PER ②516

© Copyright 2024 Mead & Hunt Inc.
 This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt, Inc. shall be responsible for any unauthorized use of, or alteration to these documents.

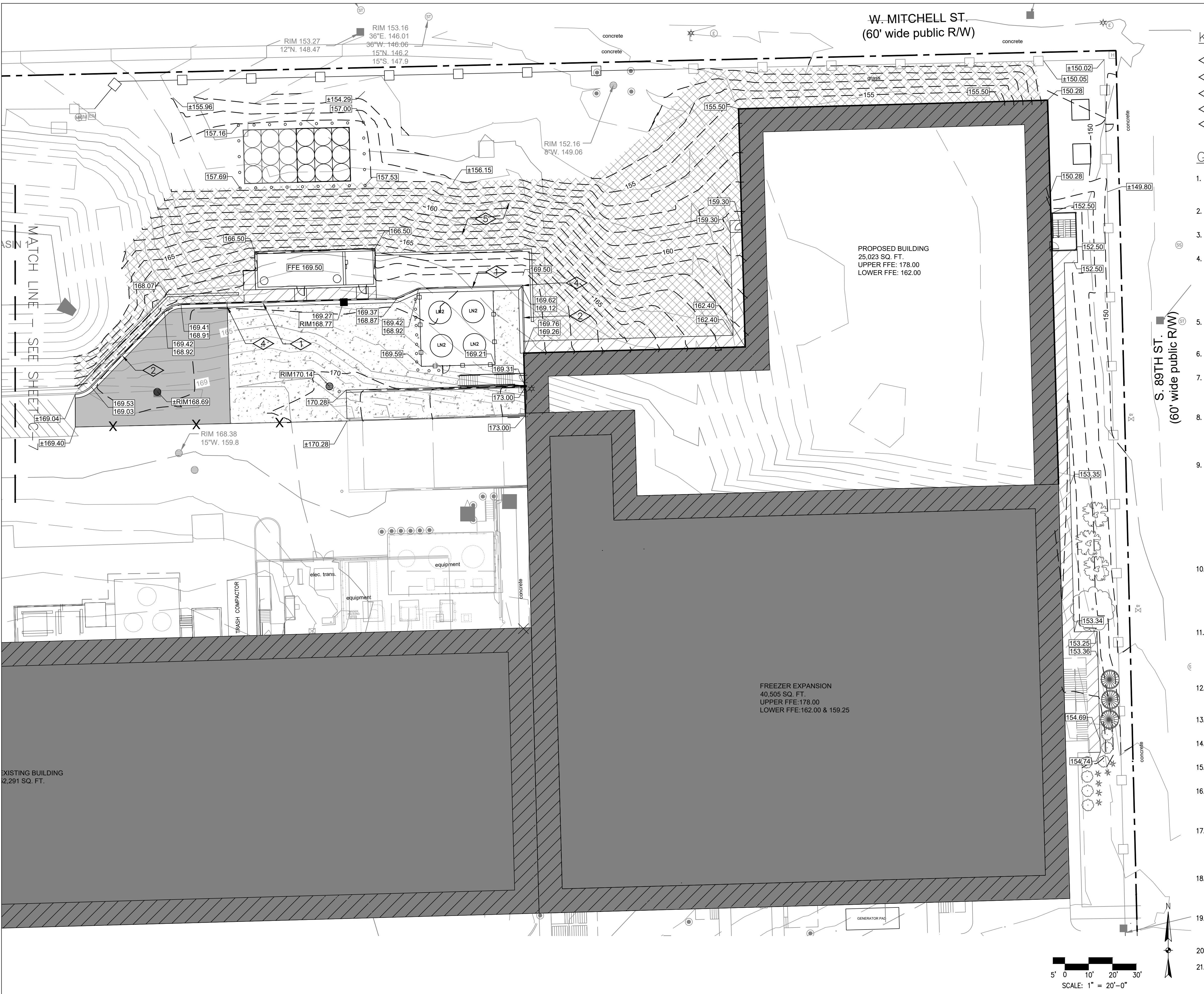
Feb 16, 2024 - 10:29 AM
 ISSUED 1 02/16/24 PERMIT ISSUE
 M&H NO.: 4666672-222049.01
 DATE: JANUARY 2024
 DESIGNED BY: D. CHAPMAN
 DRAWN BY: D. CHAPMAN
 CHECKED BY: F. FINUCANE
 DO NOT SCALE DRAWINGS
 SHEET CONTENTS
 SITE/CIVIL
 SITE PLAN
 EAST
 SHEET NO.: C-06
 5' 0" 10' 20' 30'
 SCALE: 1" = 20'-0"



CHR HANSEN PROJECT THOR



ISSUED
1 02/16/24 PERMIT ISSUE



C-08

Chr Hansen Inc.
www.chr-hansen.com

M&H NO.: 4666672-222049.01
DATE: JANUARY 2024
DESIGNED BY: D. CHAPMAN
DRAWN BY: D. CHAPMAN
CHECKED BY: F. FINUCANE
DO NOT SCALE DRAWINGS

SHEET CONTENTS
SITE/CIVIL
GRADING PLAN
EAST

SHEET NO.:

© Copyright 2024 Mead & Hunt, Inc.
This document, or portions thereof, shall
not be duplicated, disclosed, or used on any
other project or extension of this project
except by written agreement with Mead &
Hunt, Inc. Mead & Hunt, Inc. shall be
responsible for any unauthorized use of, or
alteration to these documents.

PROJECT THOR

CHR HANSEN

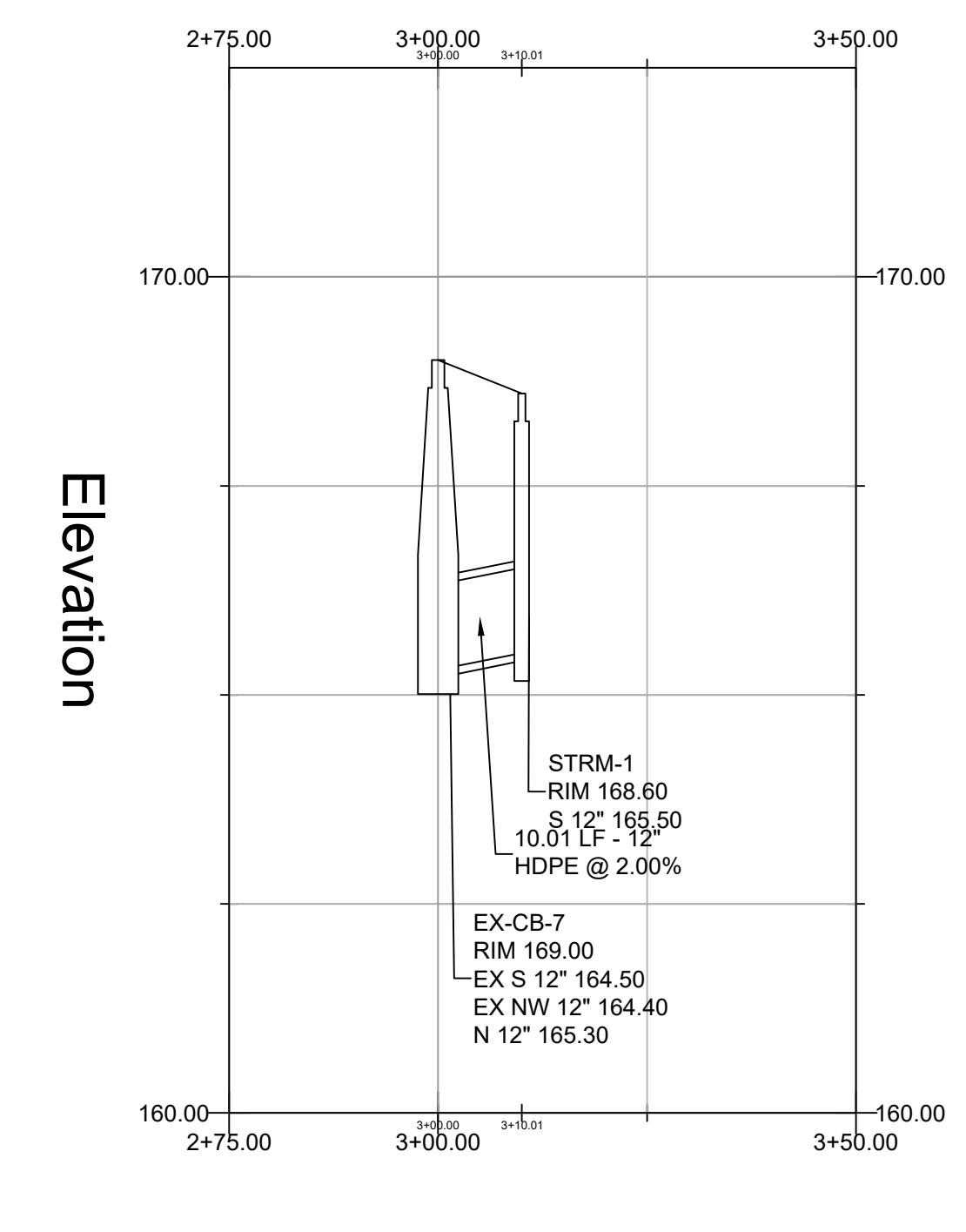
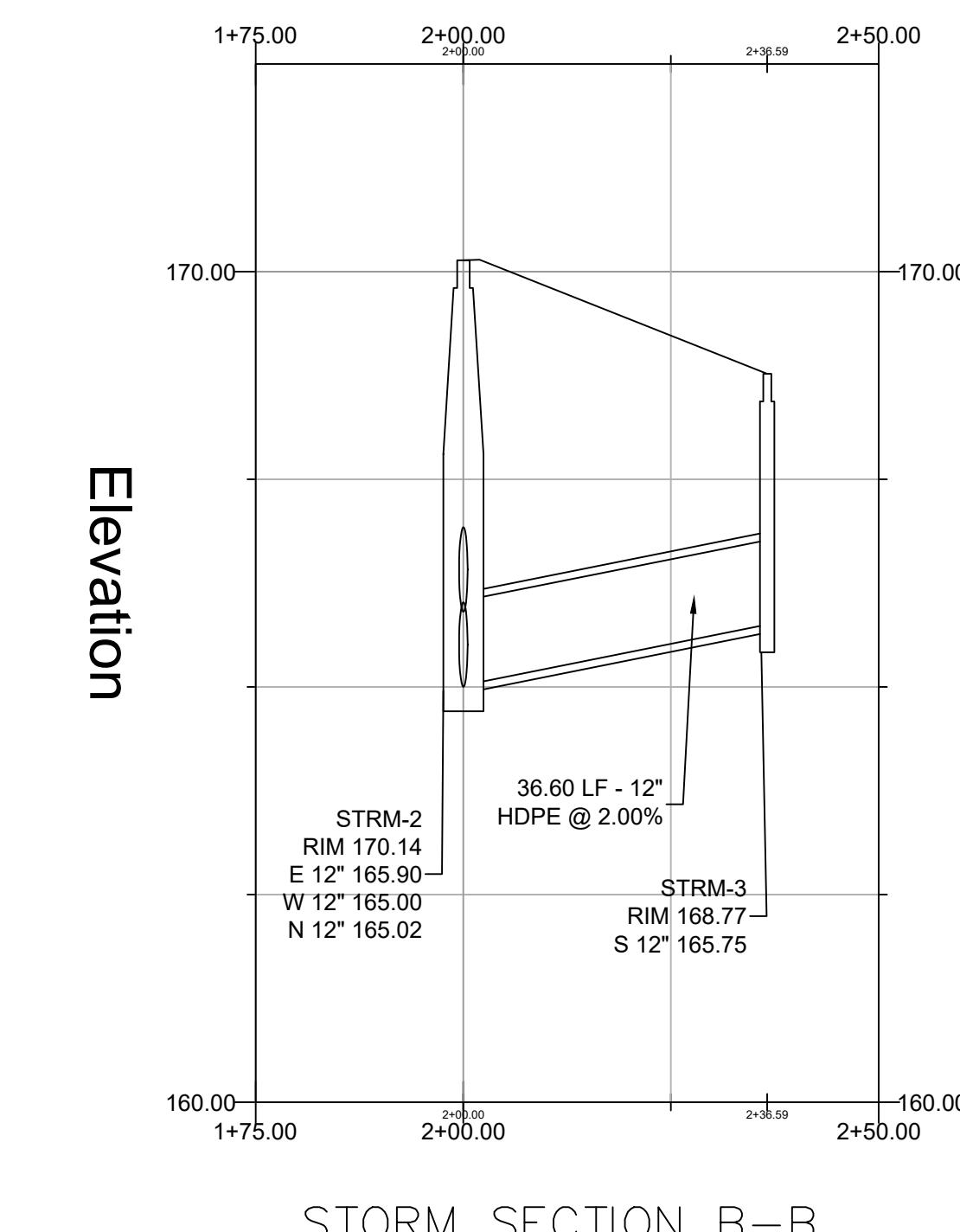
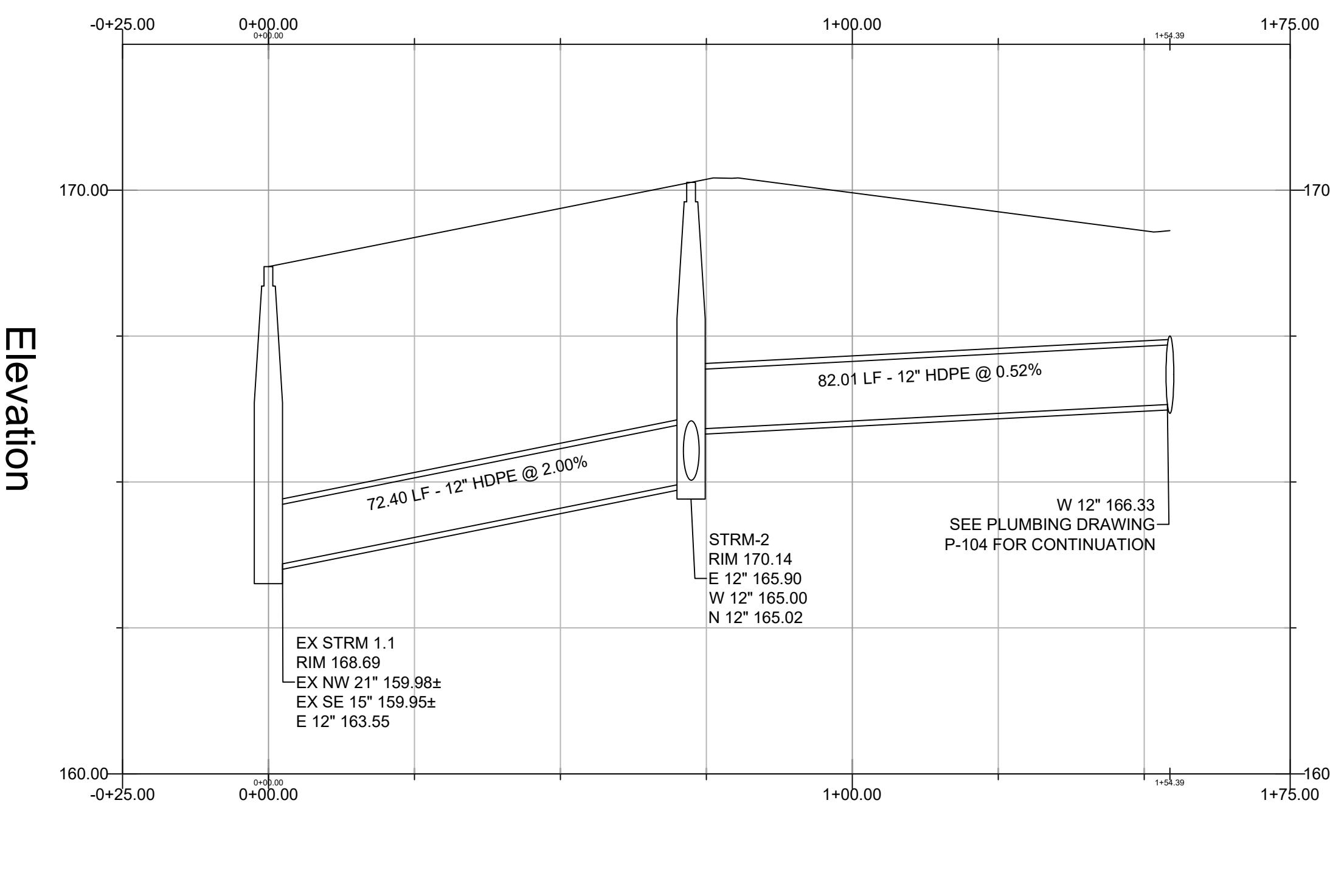
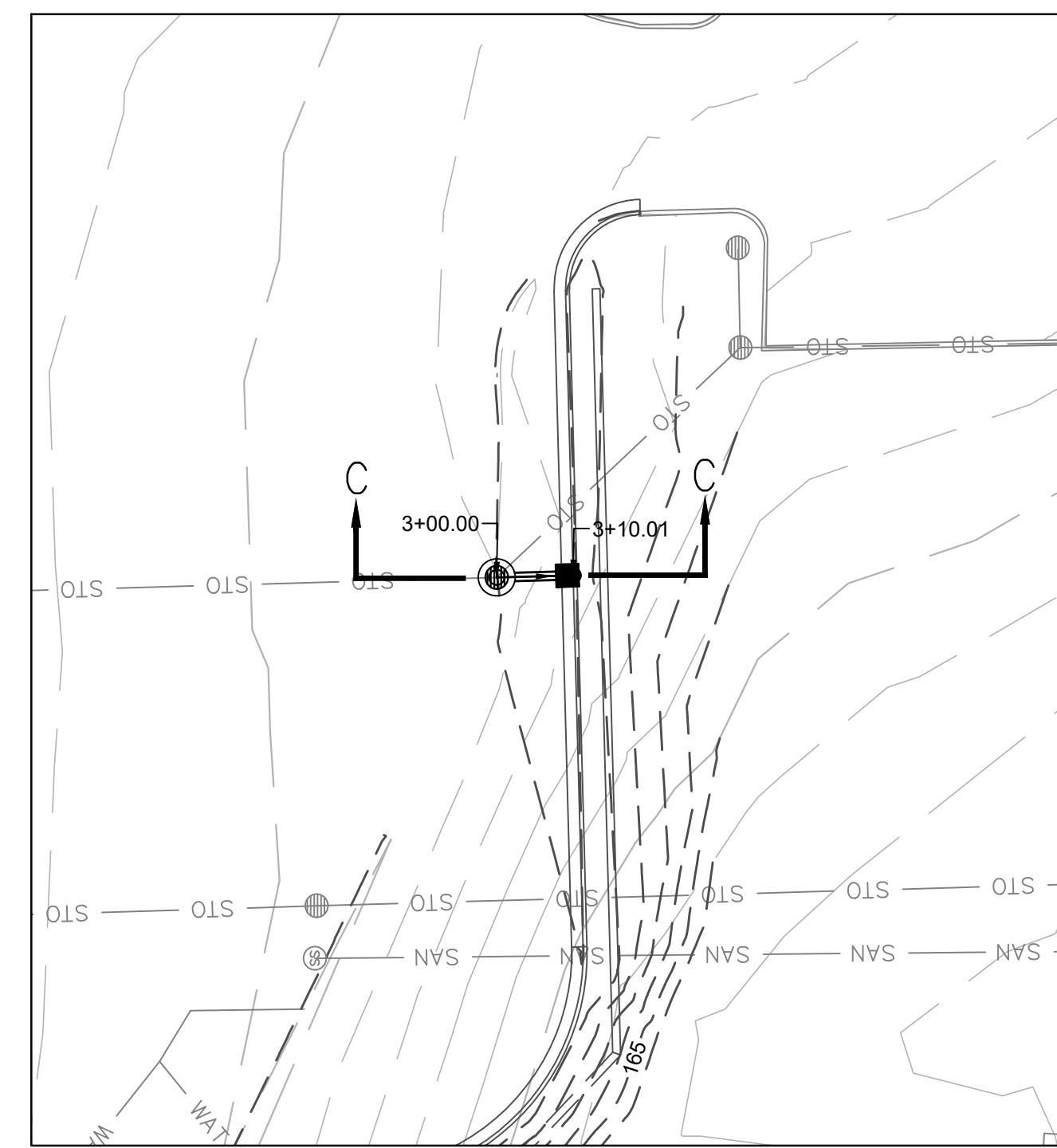
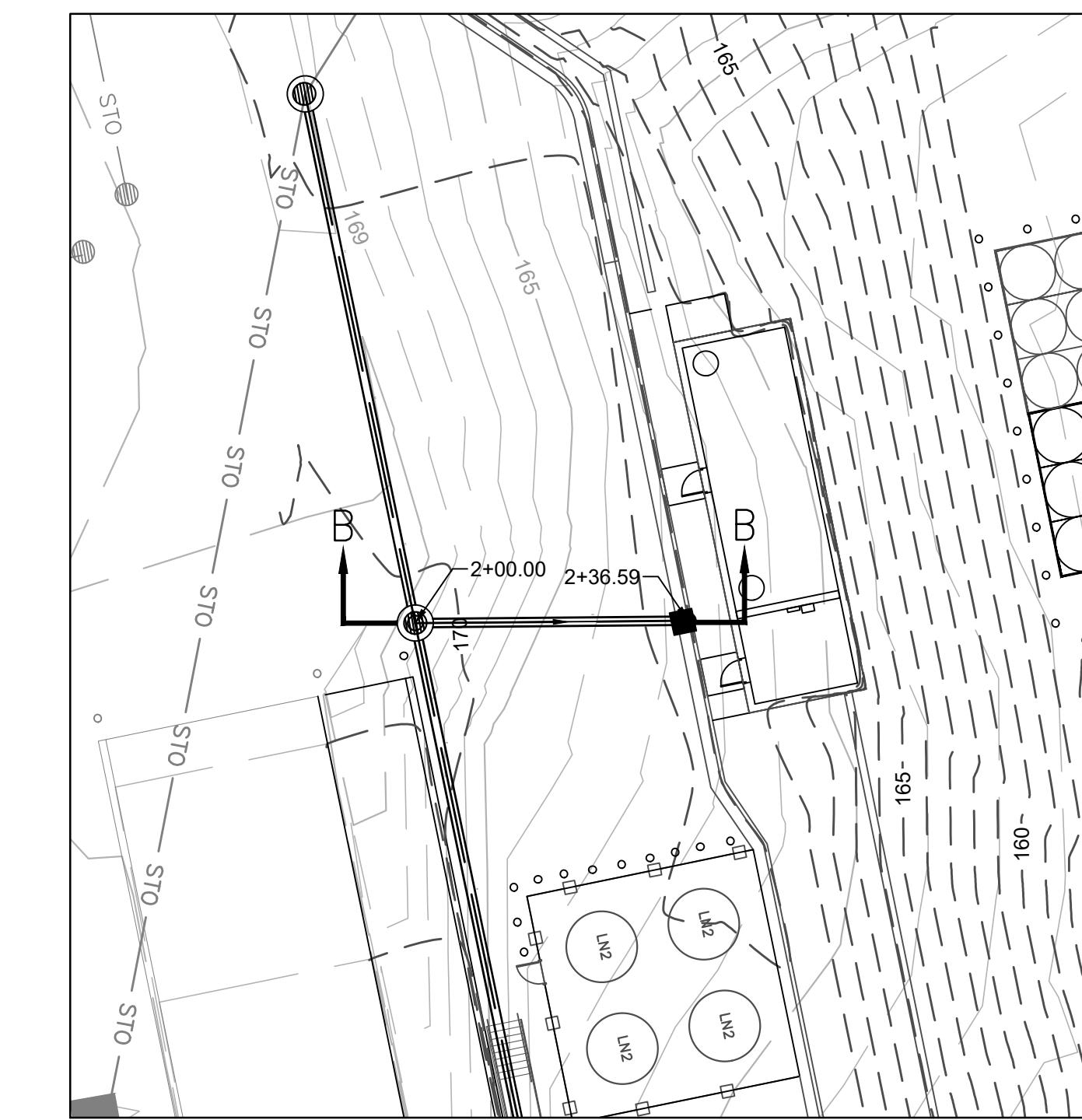
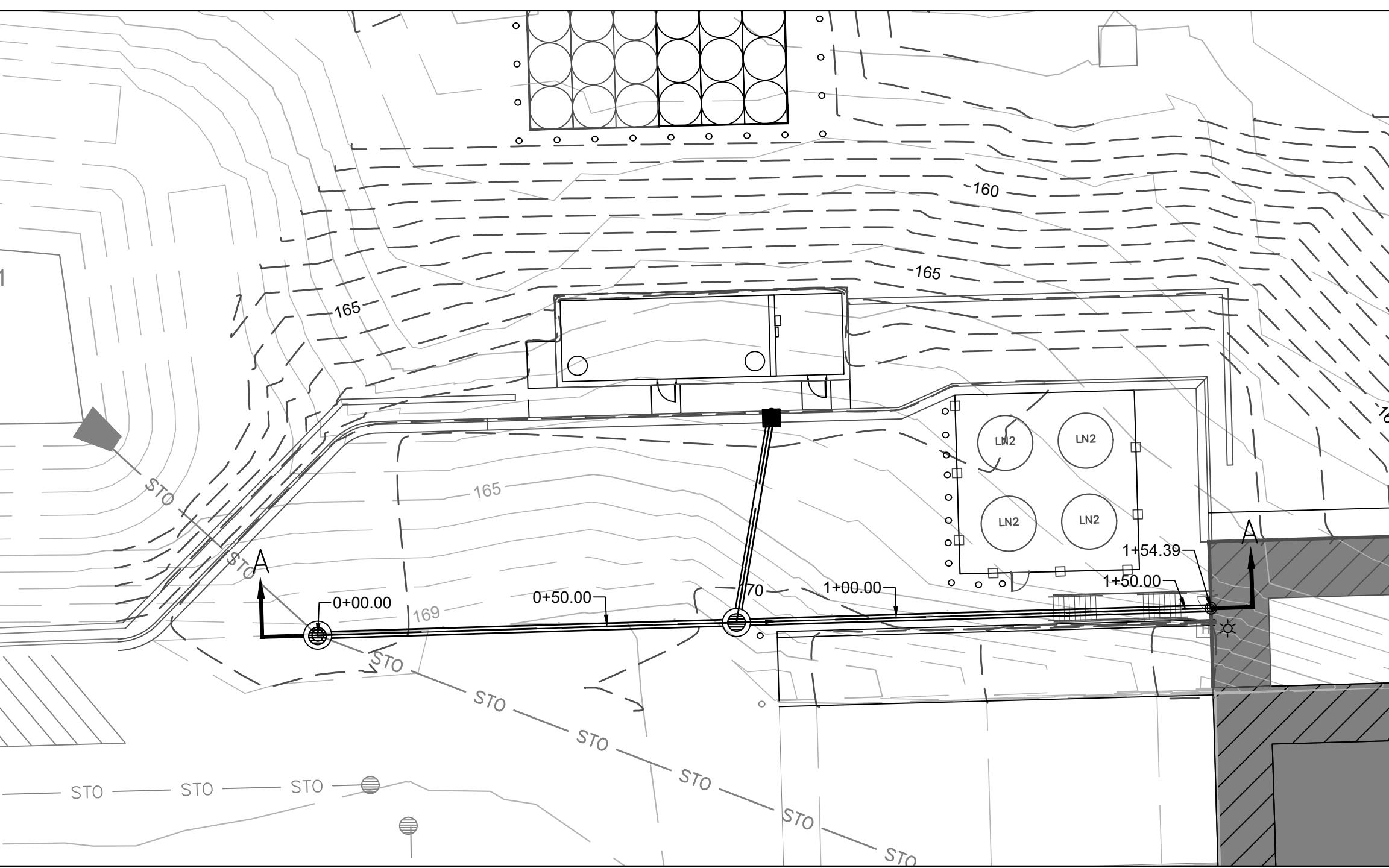
ISSUED
1 02/16/24 PERMIT ISSUE

M&H NO.: 4666672-220409.01
DATE: JANUARY 2024
DESIGNED BY: D. CHAPMAN
DRAWN BY: D. CHAPMAN
CHECKED BY: F. FINUCANE
DO NOT SCALE DRAWINGS

HEET CONTENTS
SITE/CIVIL
UTILITY PLAN
STORM SWR SECTIONS

HEET NO.:

C-11



CHR HANSEN PROJECT THOR

CHR HANSEN

ISSUED
1 02/16/24 PERMIT ISSUE

Chr Hansen Inc.
9015 W. Maple West Allis, WI 53214
www.chr-hansen.com

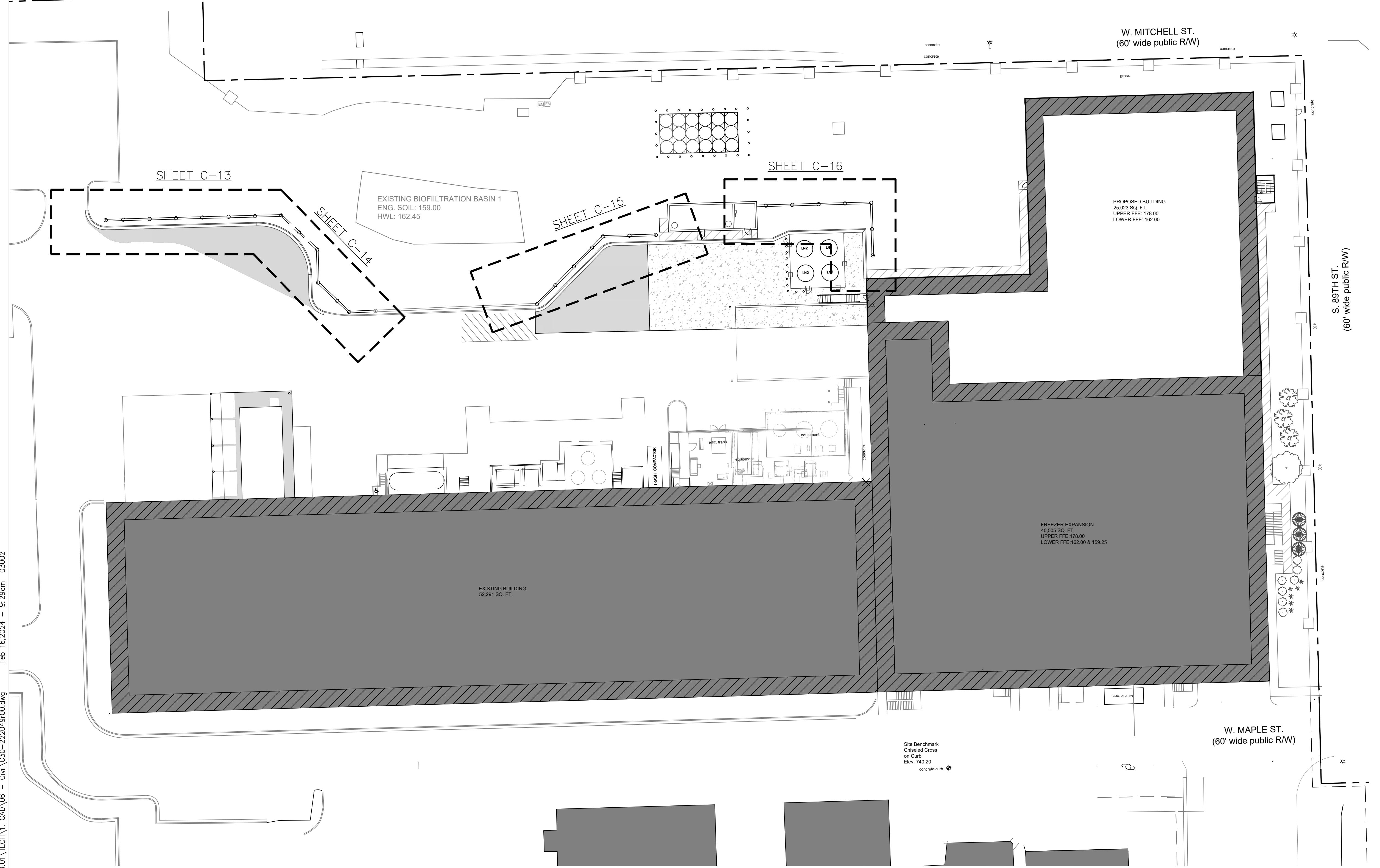
M&H NO.: 4666672-222049.01
DATE: JANUARY 2024
DESIGNED BY: D. CHAPMAN
DRAWN BY: D. CHAPMAN
CHECKED BY: F. FINUCANE
DO NOT SCALE DRAWINGS

SHEET CONTENTS
SITE/CIVIL
WALL PLAN
OVERALL

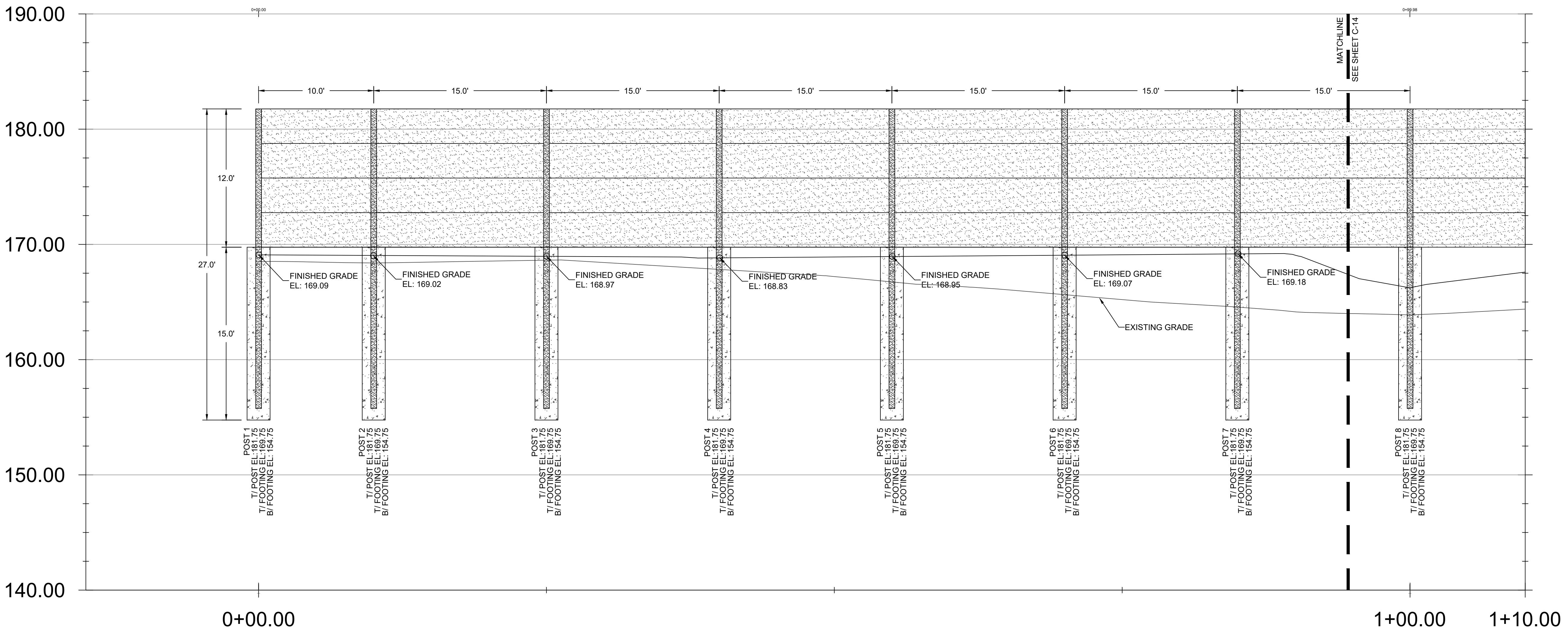
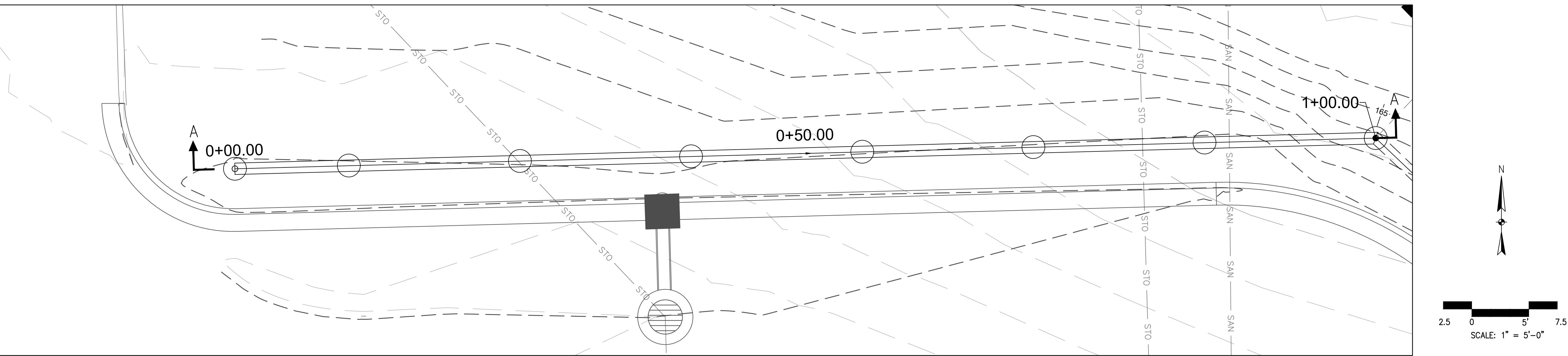
SHEET NO.:

C-12

10' 0 10' 20' 30' 40' 50'
SCALE: 1" = 30'-0"



© Copyright 2024 Mead & Hunt, Inc.
This document, or parts thereof, shall
not be duplicated, disclosed, or used on any
other project or extension of this project
except by written agreement with Mead &
Hunt, Inc. Mead & Hunt, Inc. shall be
responsible for any unauthorized use of, or
alteration to these documents.



WALL SECTION A-A

**CHR HANSEN
PROJECT THOR**

Chr Hansen Inc.
9015 W. Maple West Allis, WI 53214
www.chr-hansen.com

CHR HANSEN

ISSUED
1 02/16/24 PERMIT ISSUE

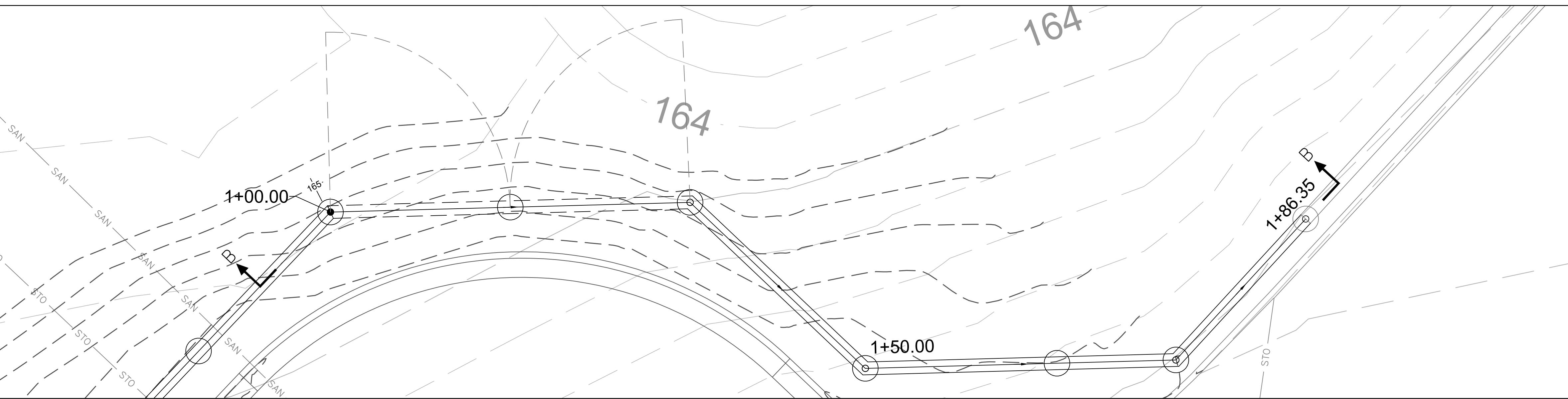
M&H NO.: 4666672-222049.01
DATE: JANUARY 2024
DESIGNED BY: D. CHAPMAN
DRAWN BY: D. CHAPMAN
CHECKED BY: F. FINUCANE
DO NOT SCALE DRAWINGS

SHEET CONTENTS
SITE/CIVIL
WALL PLAN
SECTION A-A

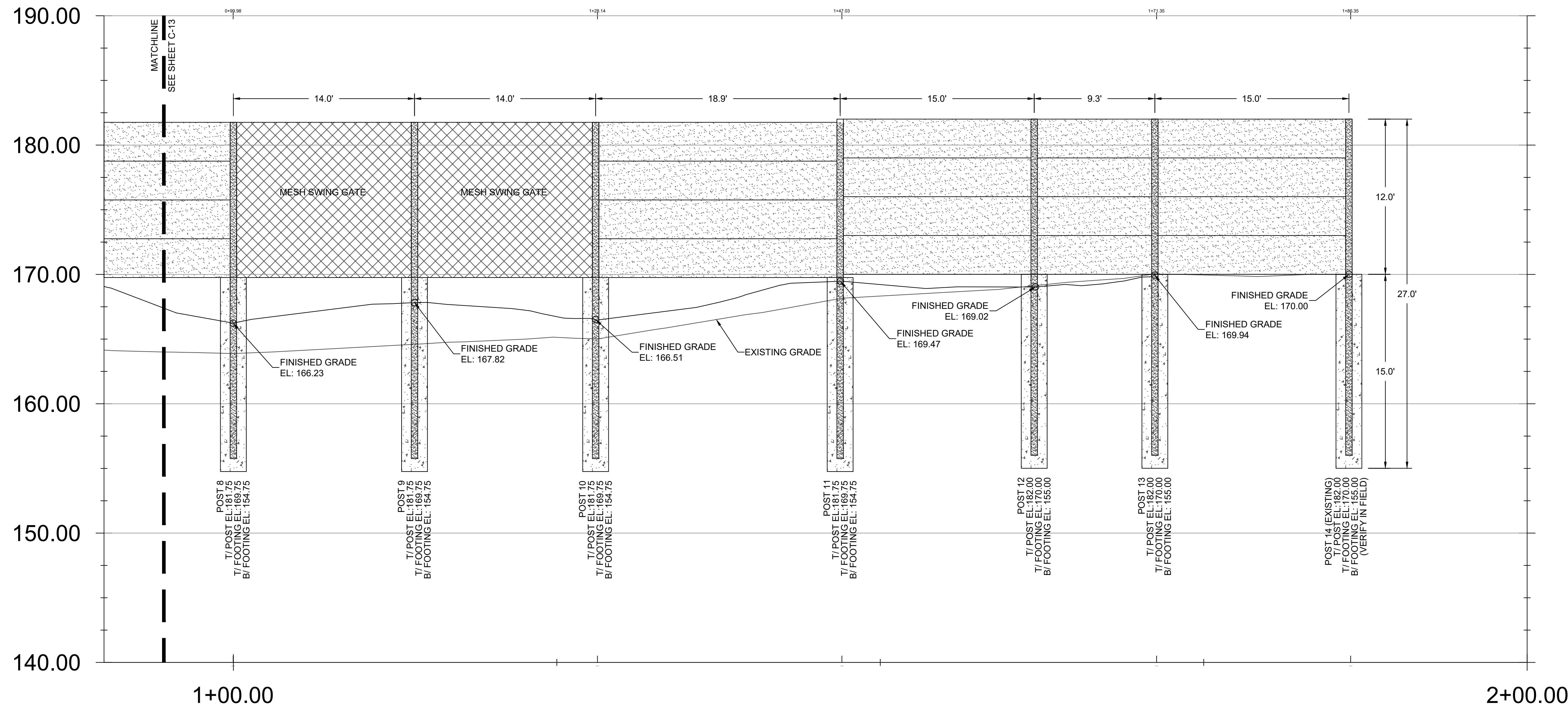
SHEET NO.:

C-13

© Copyright 2024 Mead & Hunt, Inc.
This document, or parts thereof, shall
not be duplicated, disclosed, or used on any
other project or extension of this project
except by written agreement with Mead &
Hunt, Inc. Mead & Hunt, Inc. shall be
responsible for any unauthorized use of, or
alteration to these documents.



N
2.5 0 5 7.5
SCALE: 1" = 5'-0"



CHR HANSEN PROJECT THOR

Chr Hansen Inc.
www.chr-hansen.com

CHR HANSEN
PROJECT THOR

ISSUED 1 02/16/24 PERMIT ISSUE

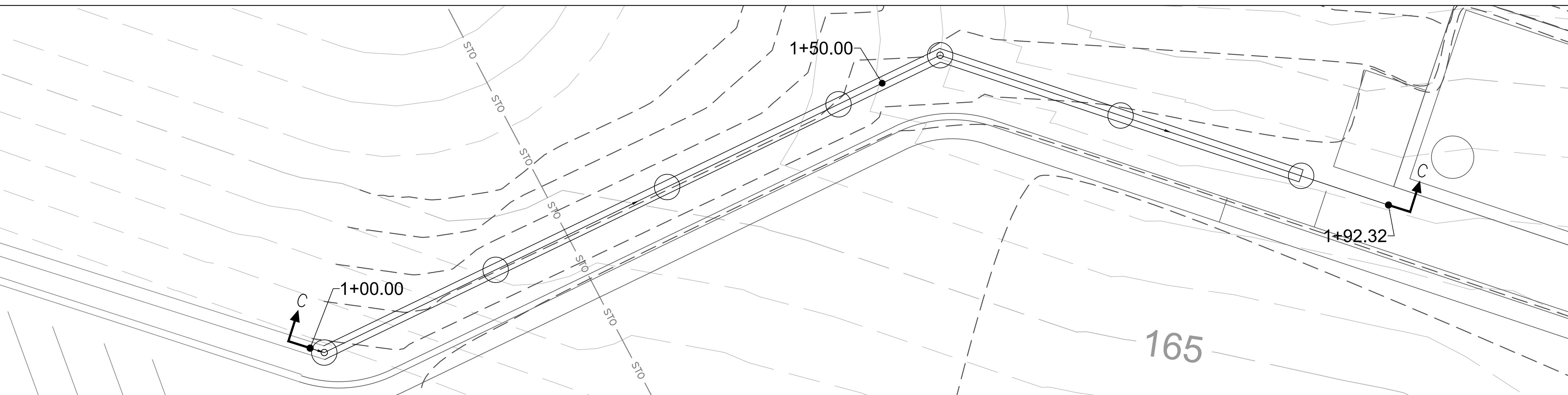
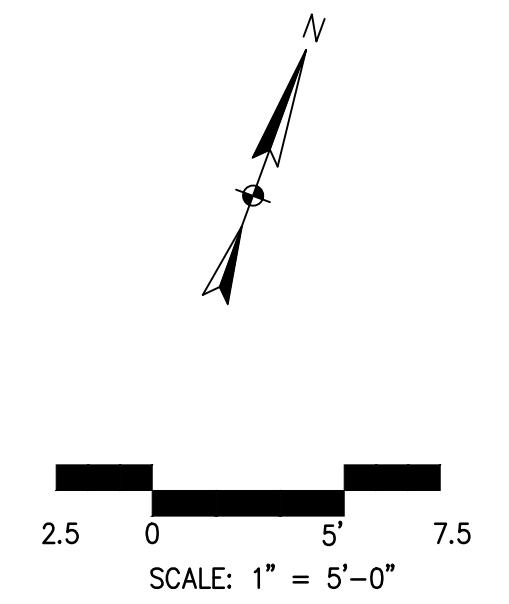
M&H NO.: 4666672-222049.01
DATE: JANUARY 2024
DESIGNED BY: D. CHAPMAN
DRAWN BY: D. CHAPMAN
CHECKED BY: F. FINUCANE
DO NOT SCALE DRAWINGS

SHEET CONTENTS
SITE/CIVIL
WALL PLAN
SECTION B-B

SHEET NO.:

C-14

© Copyright 2024 Mead & Hunt, Inc.
 This document, or parts thereof, shall
 not be duplicated, disclosed, or used on any
 other project or extension of this project
 except by written agreement with Mead &
 Hunt, Inc. Mead & Hunt, Inc. shall be
 responsible for any unauthorized use of, or
 alteration to these documents.

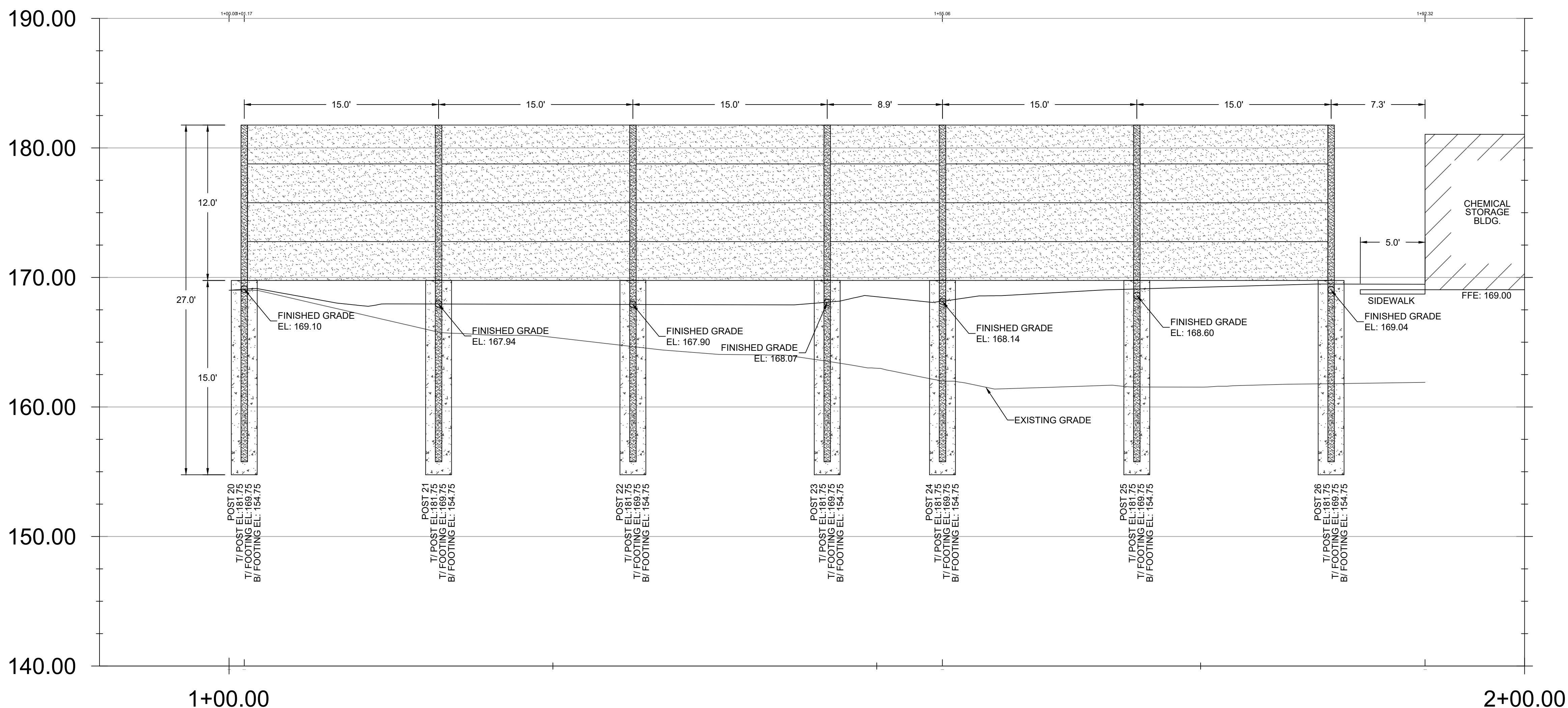


CHR HANSEN PROJECT THOR

CHR HANSEN

Chr Hansen Inc.
www.chr-hansen.com

ISSUED
1 02/16/24 PERMIT ISSUE



WALL SECTION C-C

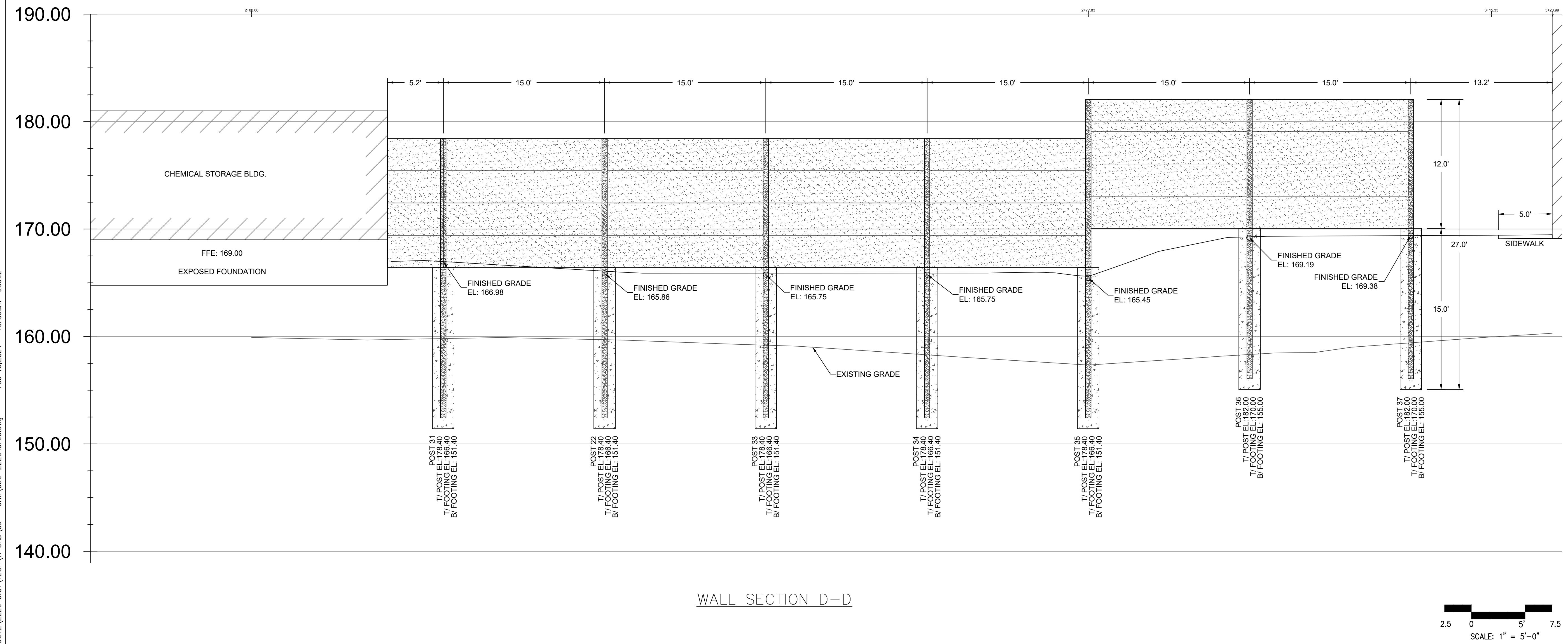
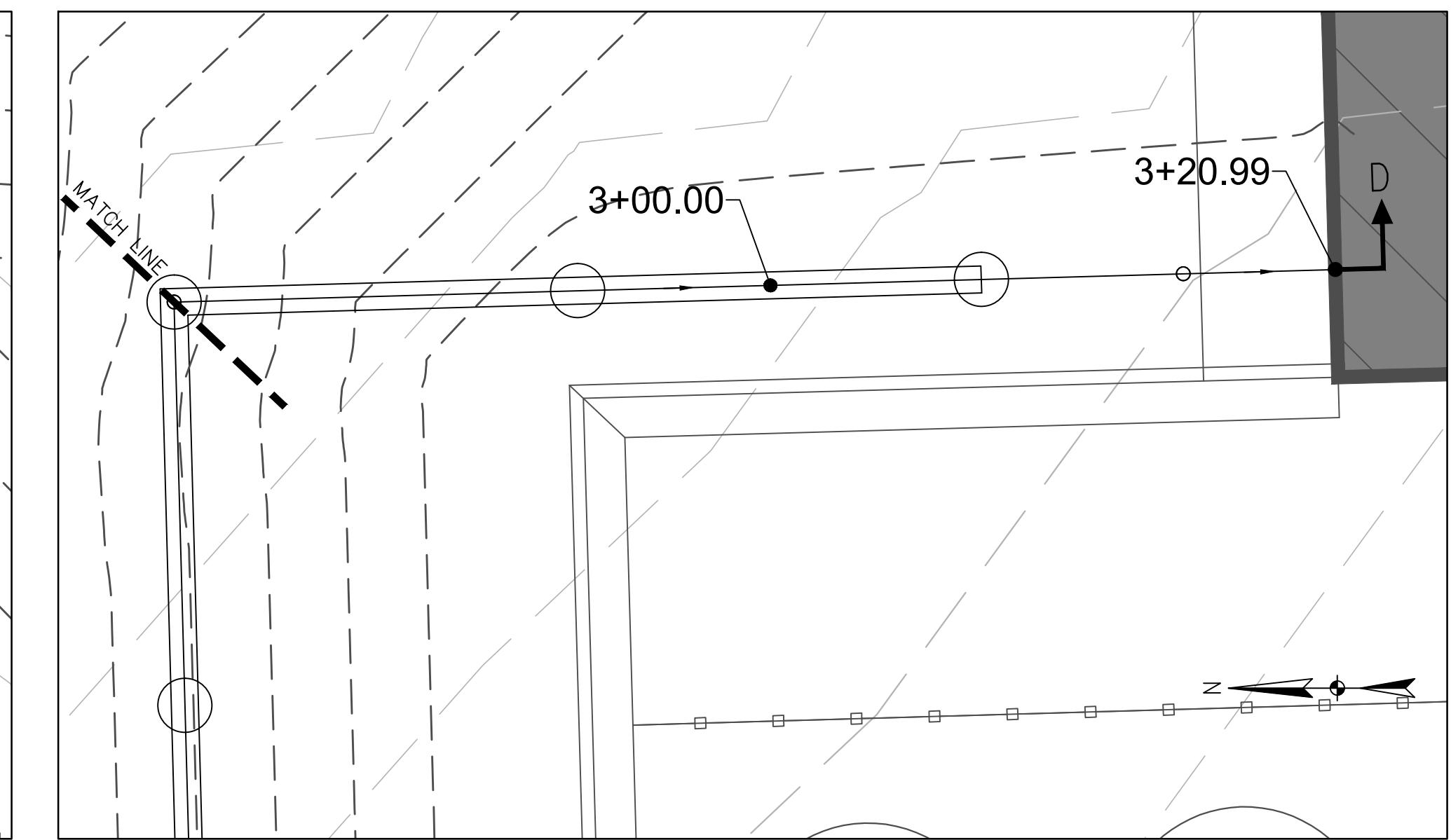
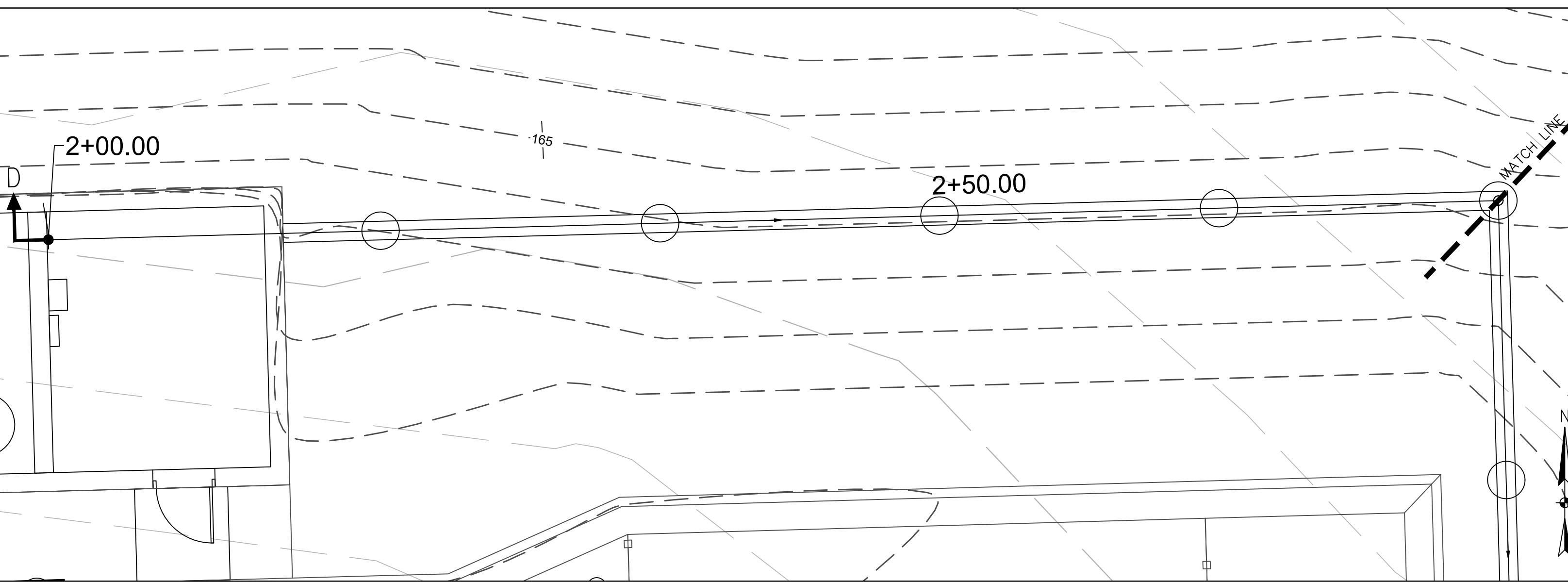
M&H NO.: 4666672-222049.01
 DATE: JANUARY 2024
 DESIGNED BY: D. CHAPMAN
 DRAWN BY: D. CHAPMAN
 CHECKED BY: F. FINUCANE
 DO NOT SCALE DRAWINGS

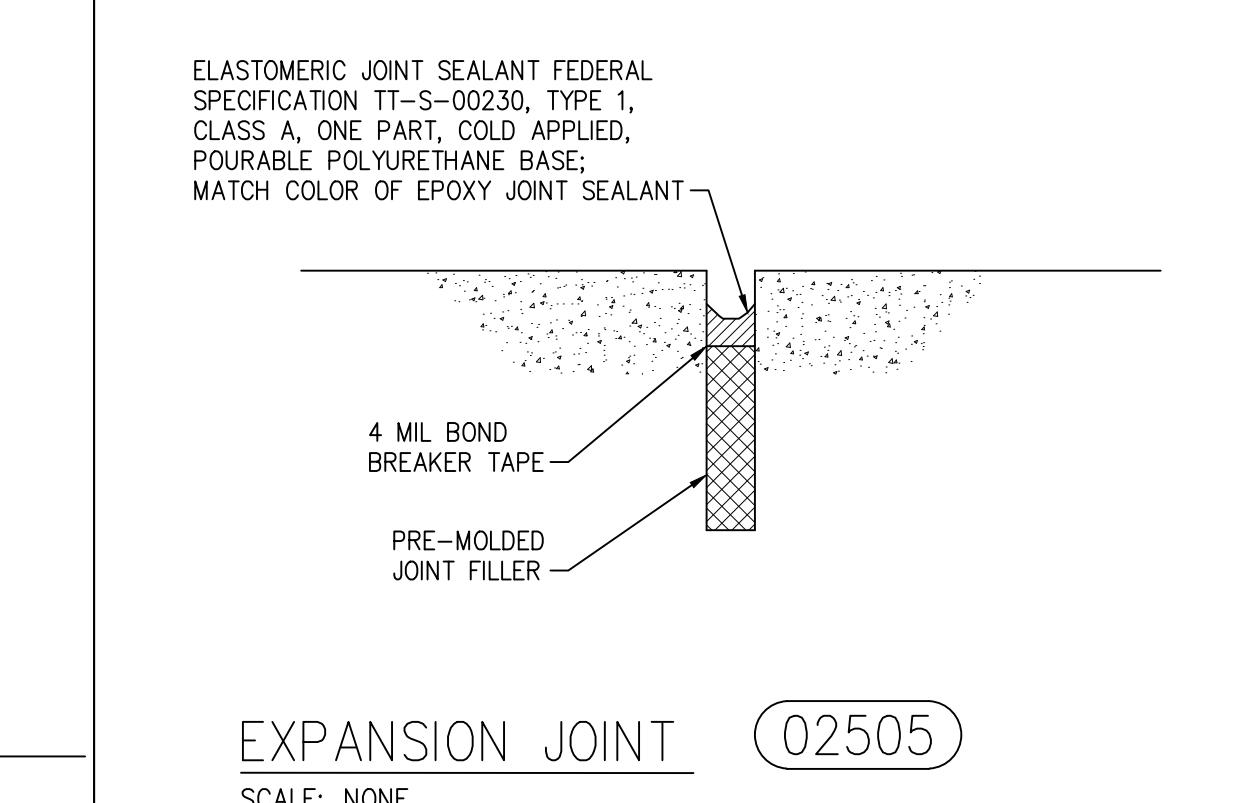
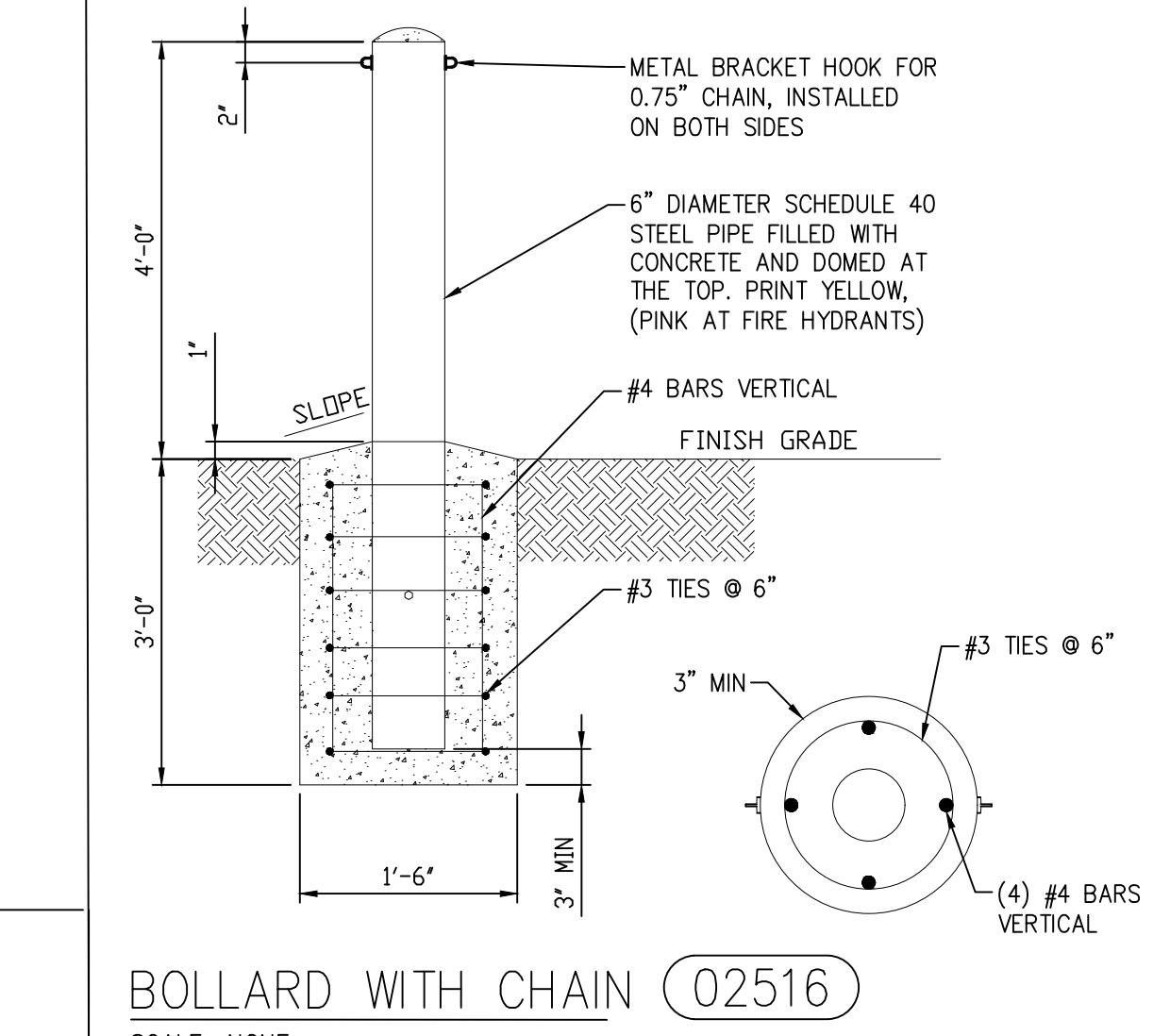
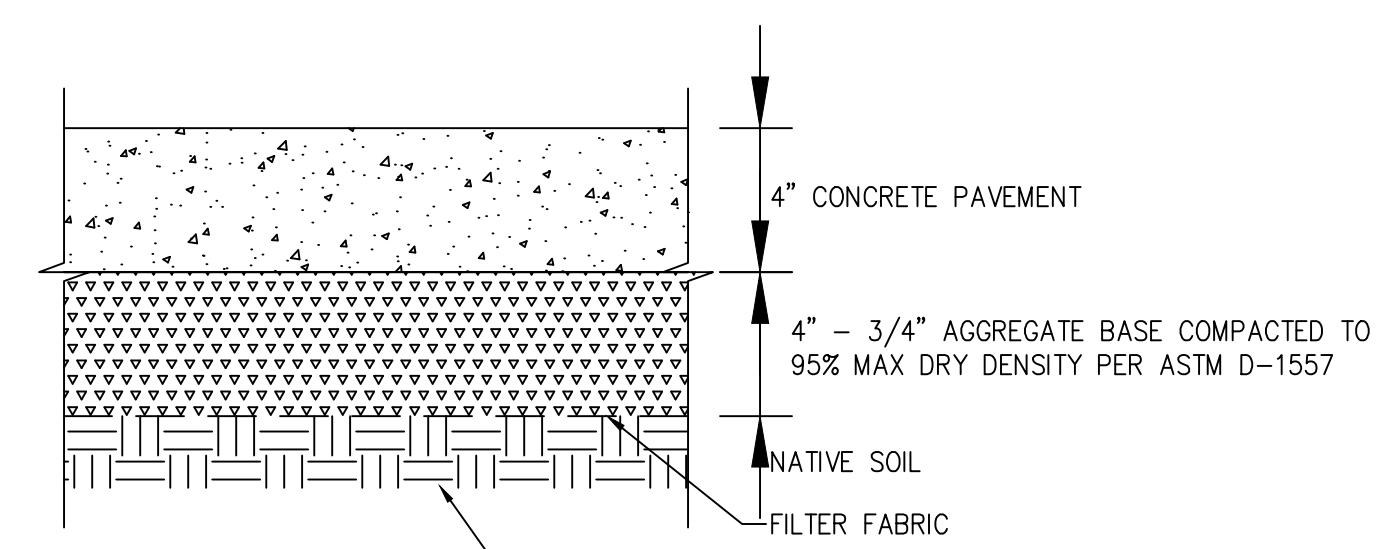
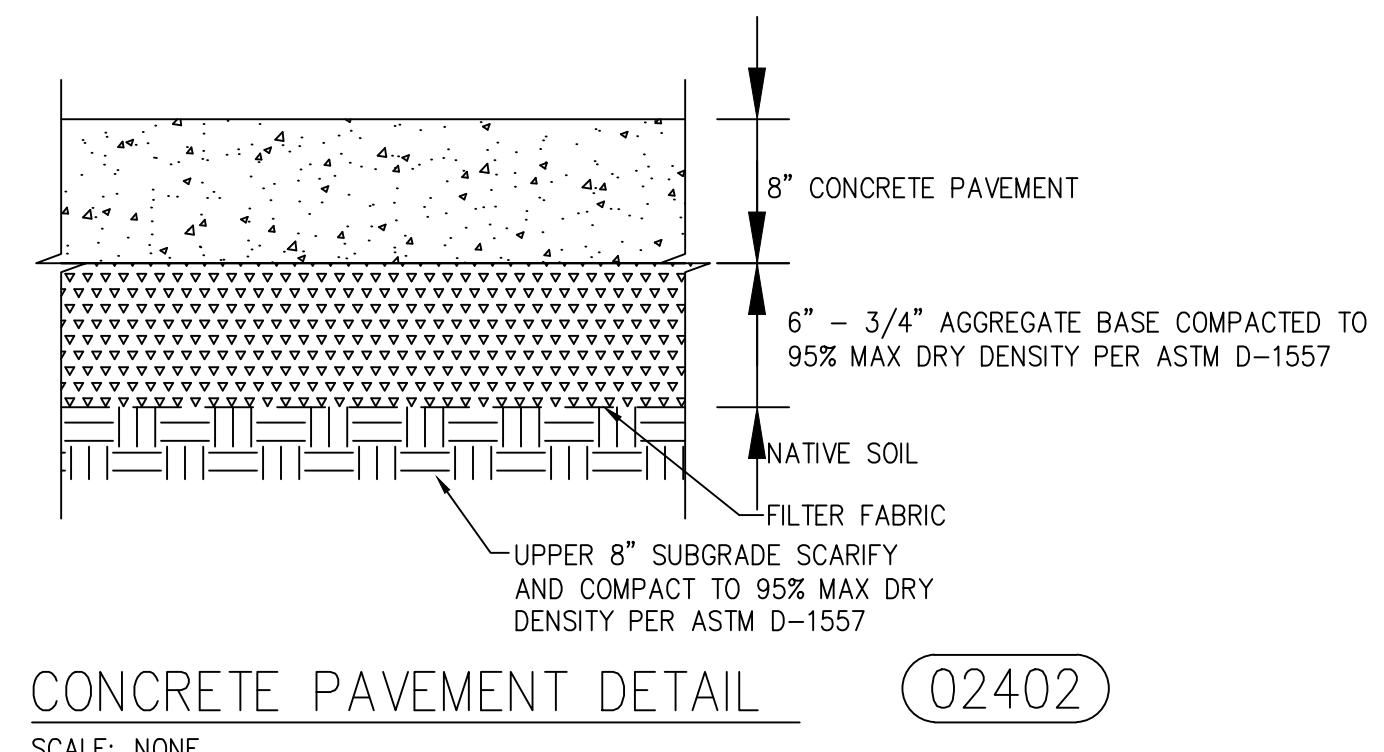
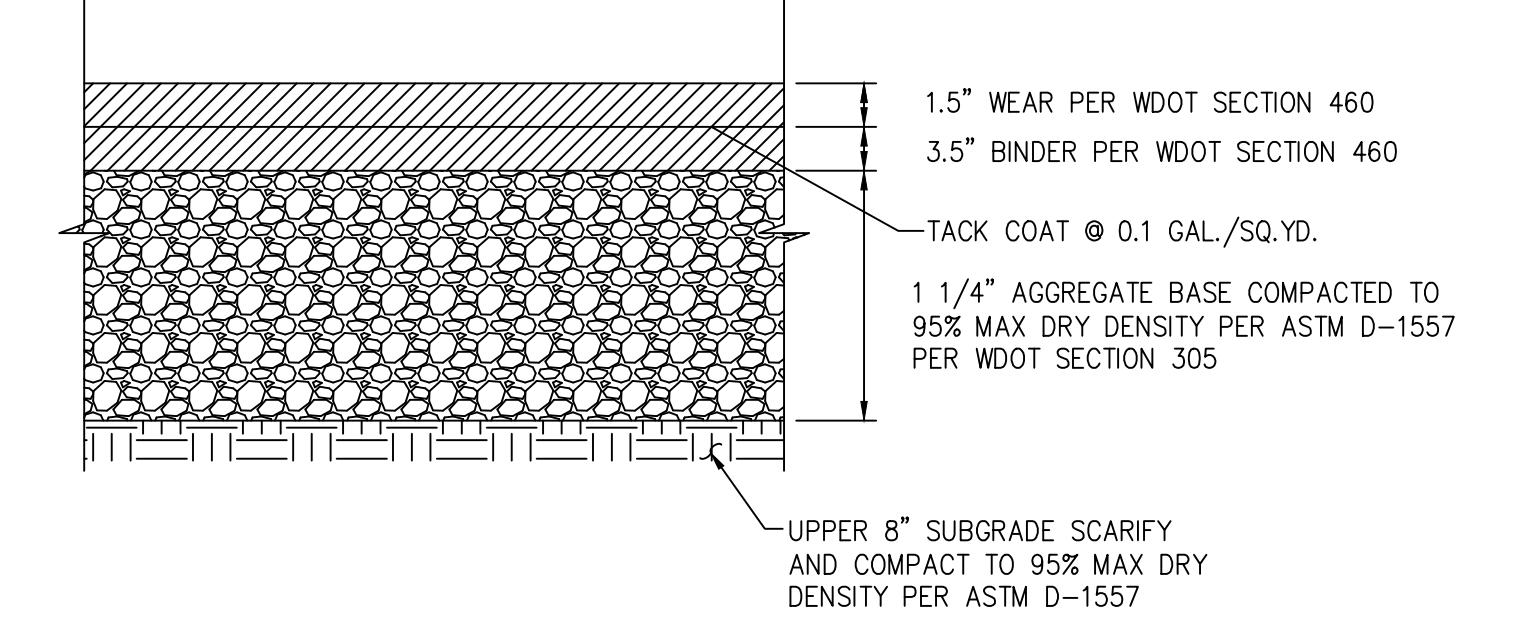
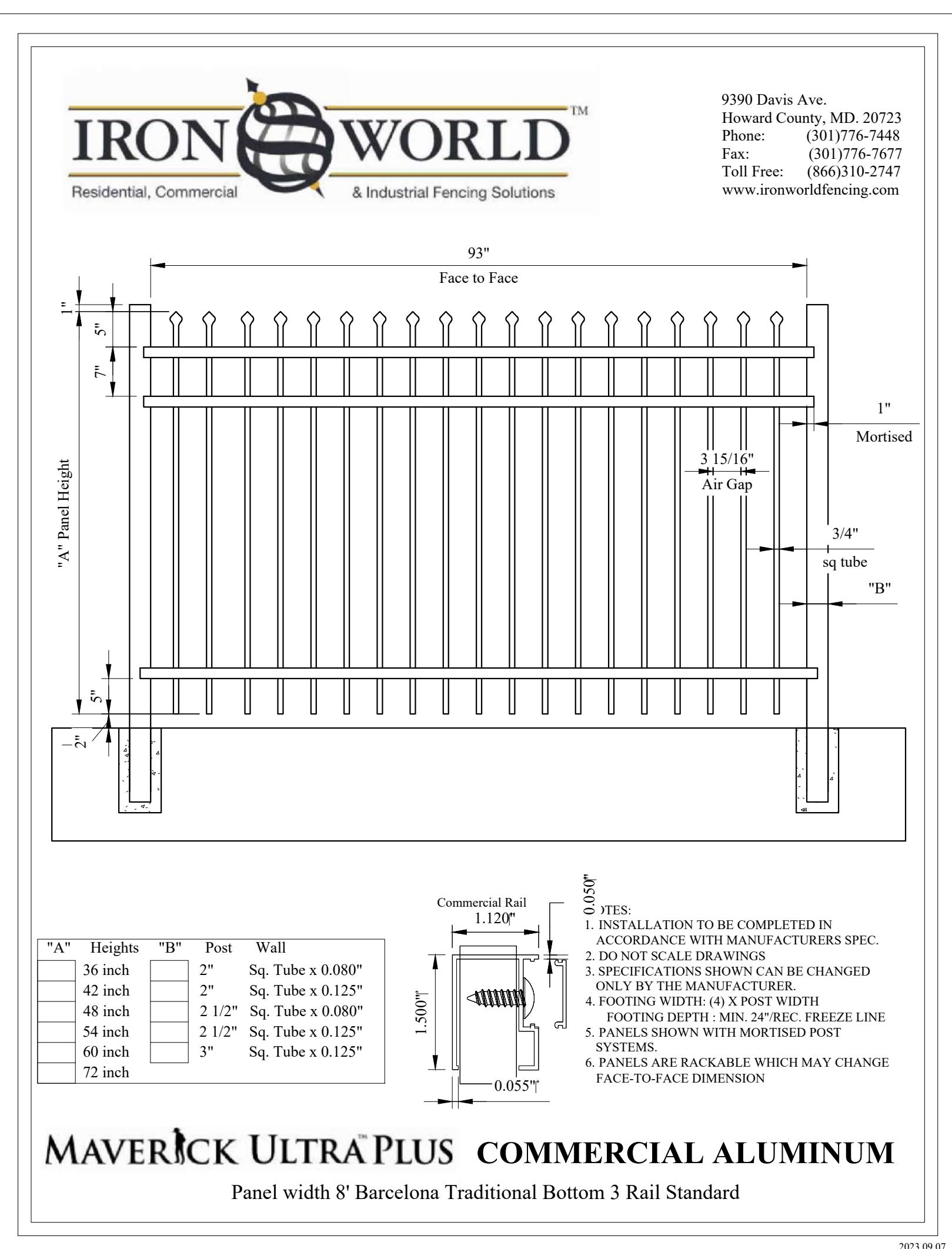
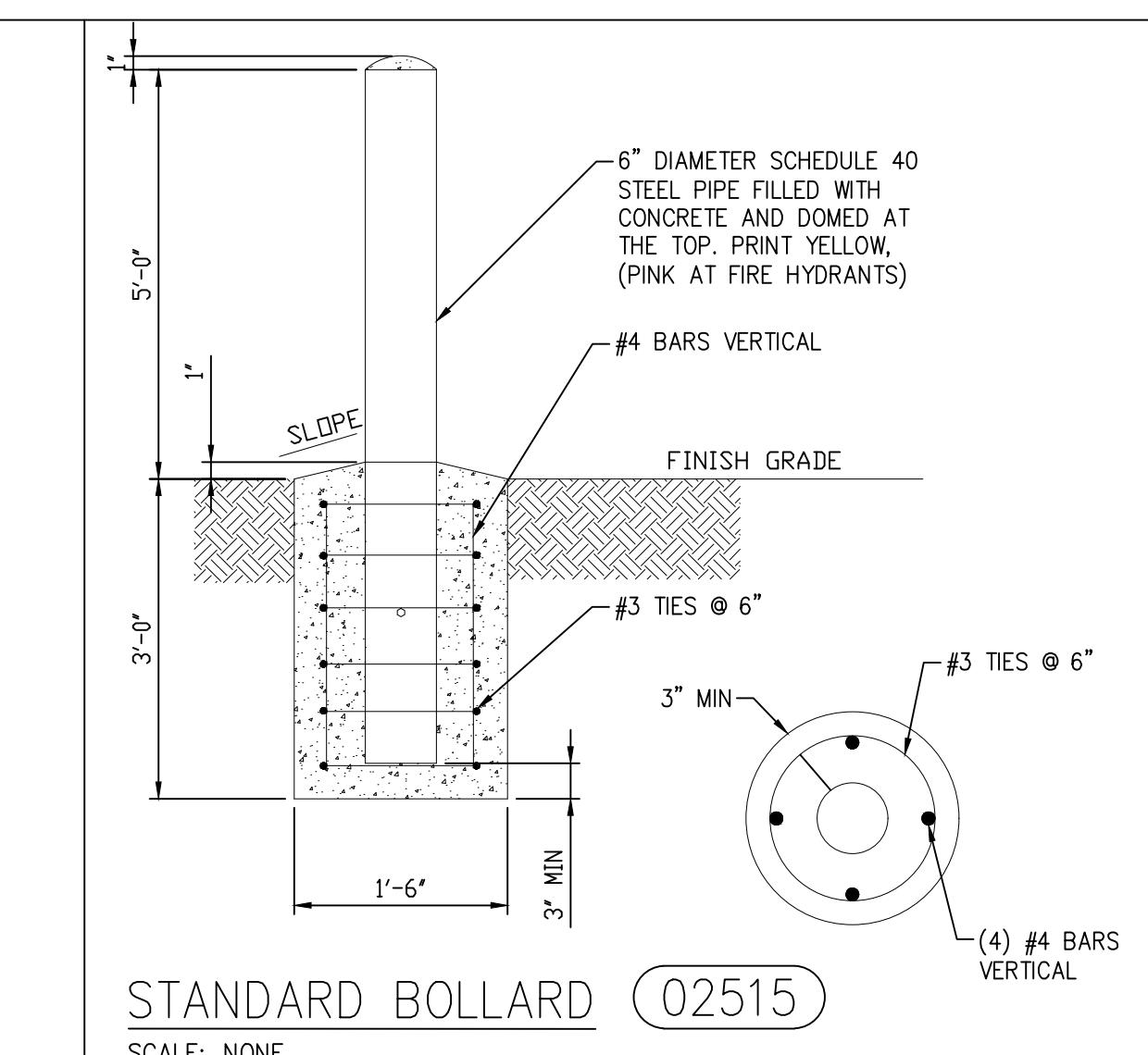
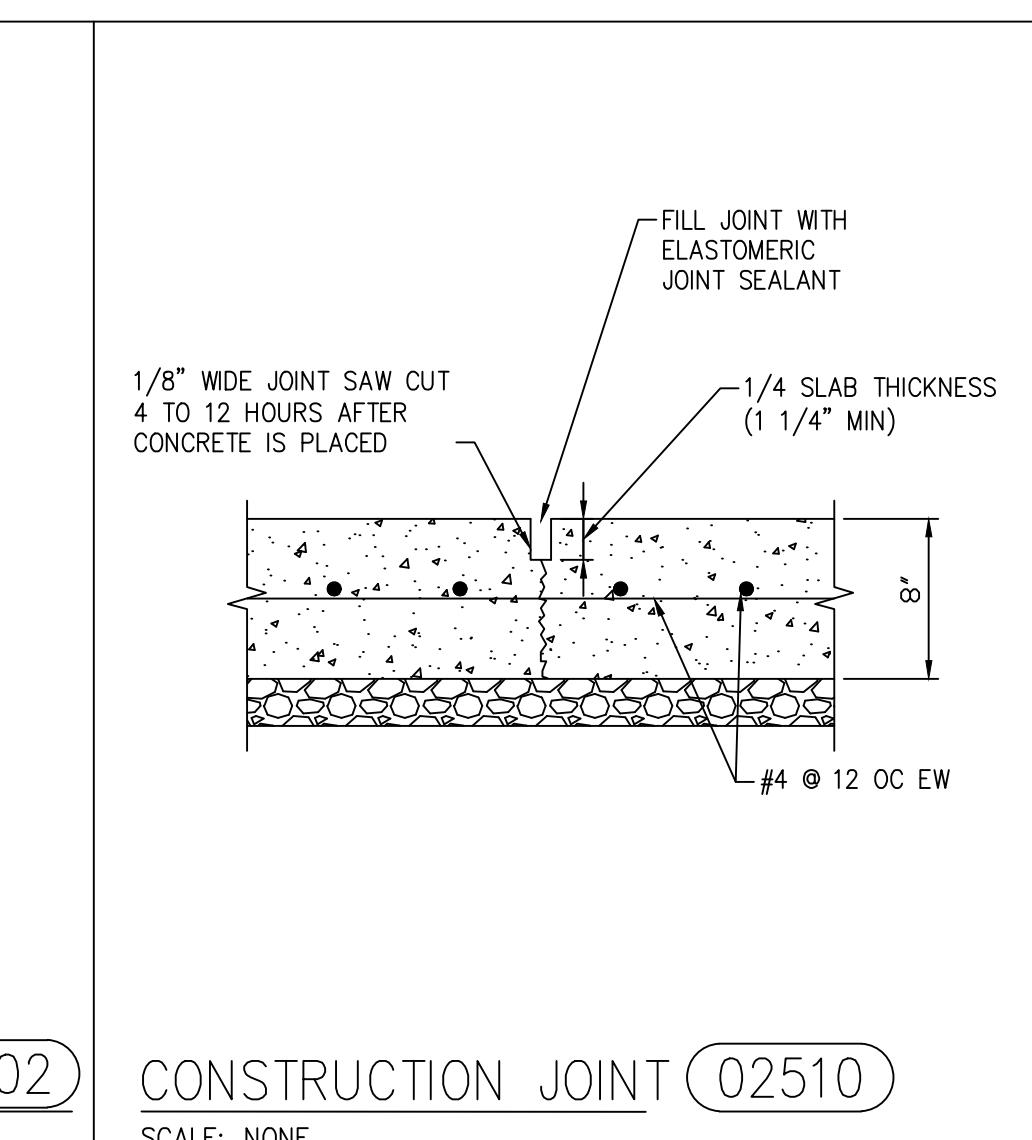
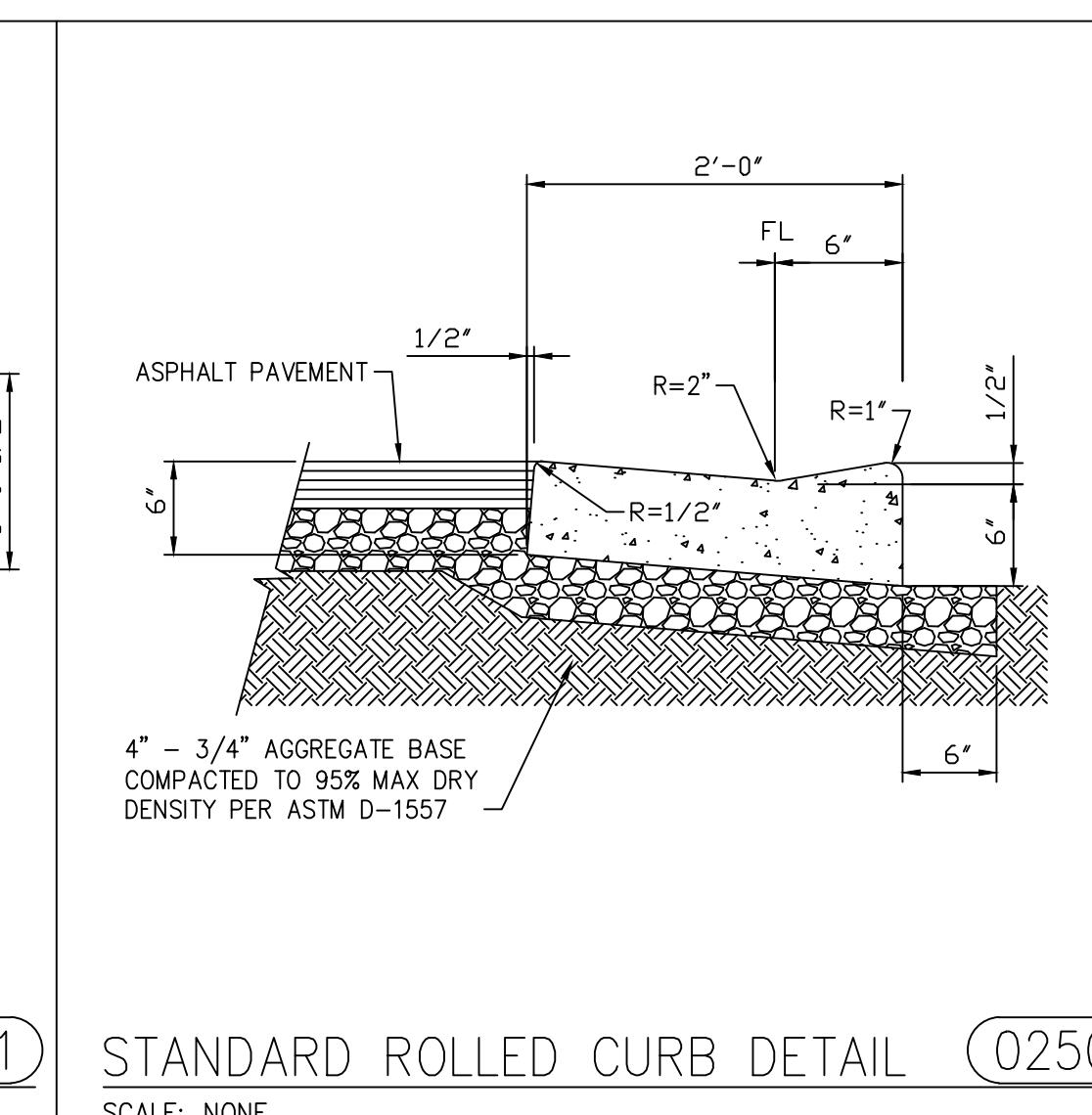
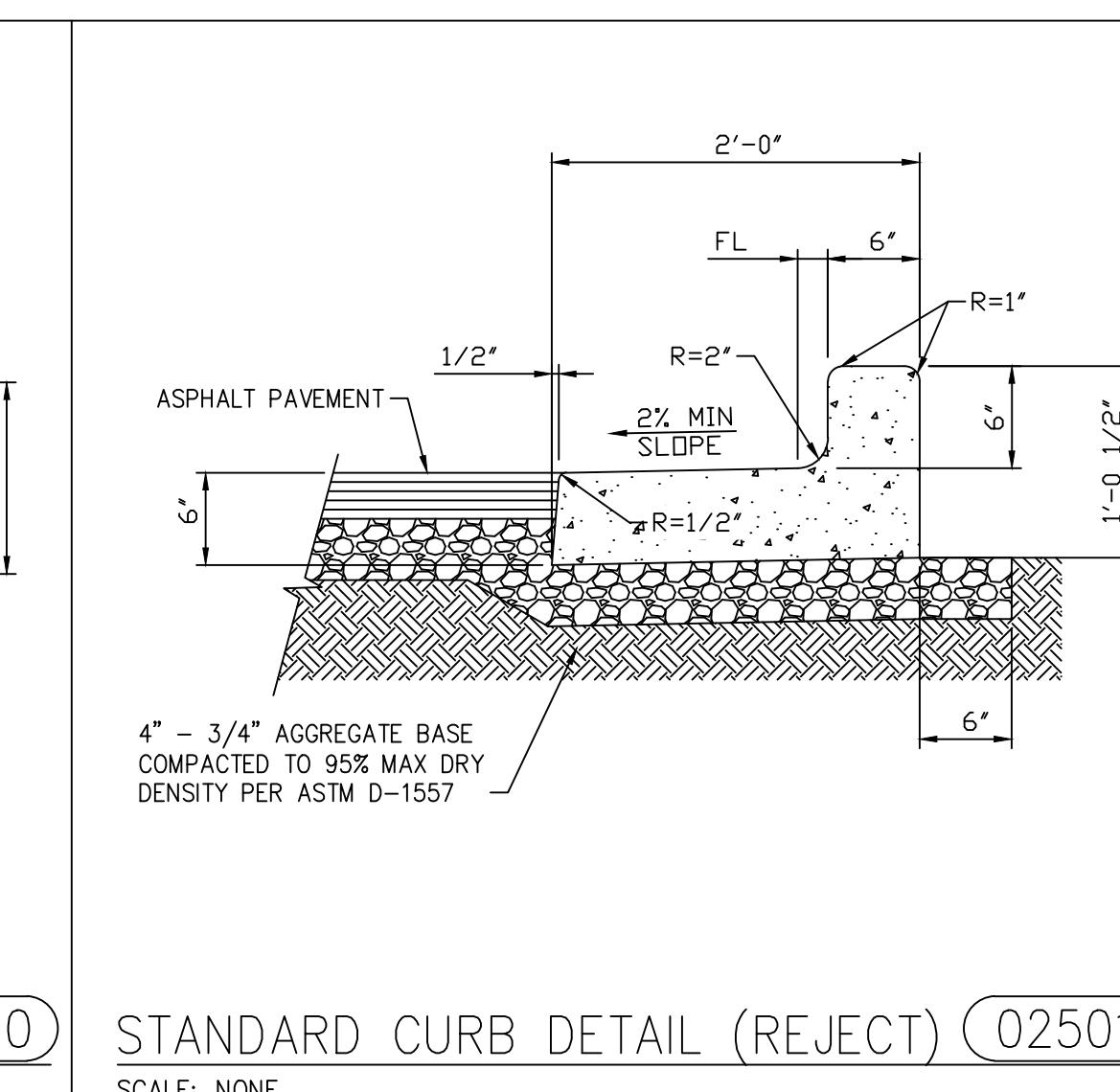
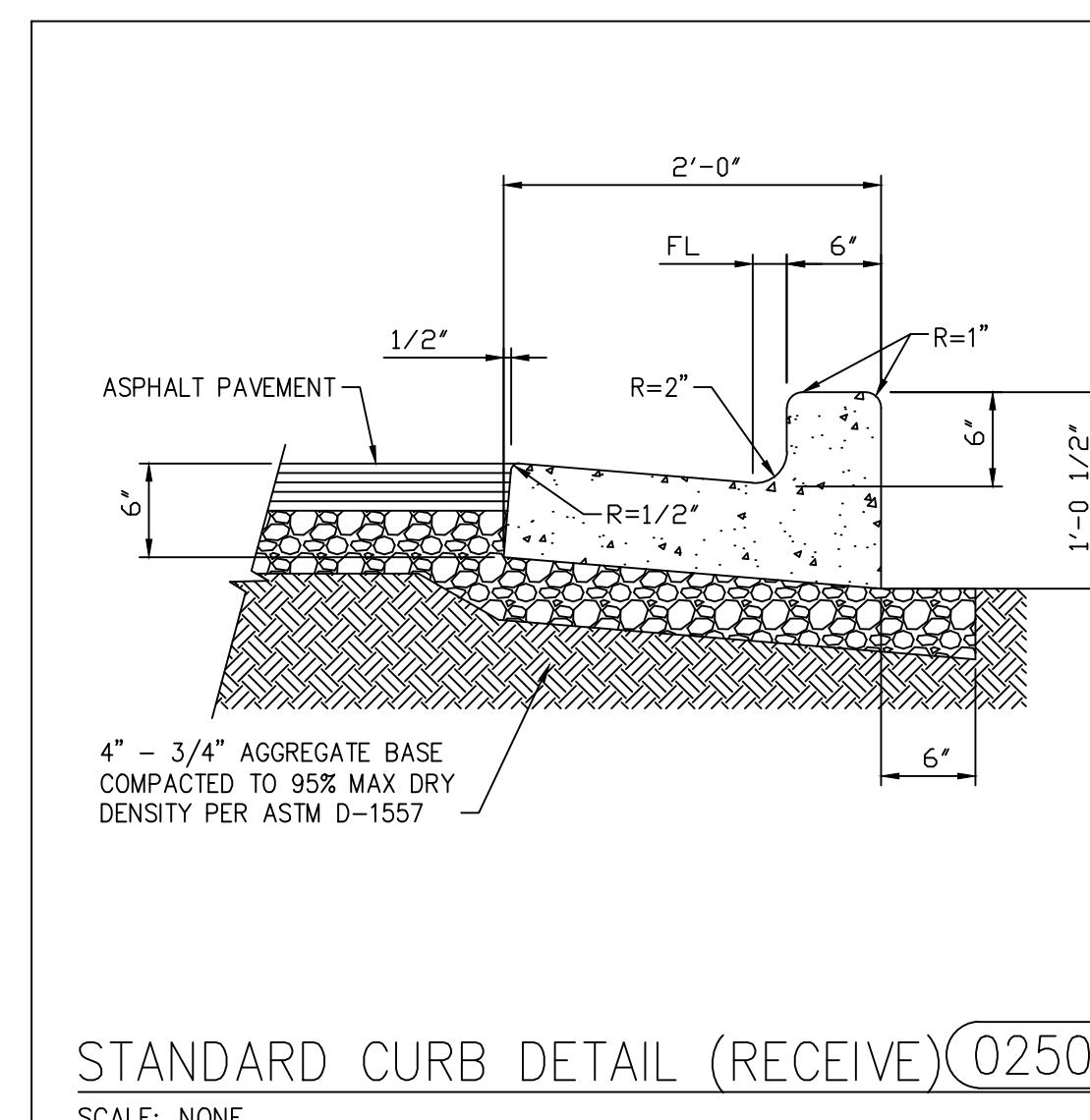
SHEET CONTENTS
 SITE/CIVIL
 WALL PLAN
 SECTION C-C

SHEET NO.:

C-15

© Copyright 2024 Mead & Hunt, Inc.
 This document, or portions thereof, shall
 not be duplicated, disclosed, or used on any
 other project or extension of this project
 except by written agreement with Mead &
 Hunt, Inc. Mead & Hunt, Inc. shall be
 responsible for any unauthorized use of, or
 alteration to these documents.





CHR HANSEN PROJECT THOR

CHR HANSEN

ISSUED
1 02/16/24 PERMIT ISSUE

M&H NO.: 4666672-222049.01
DATE: JANUARY 2024
DESIGNED BY: D. CHAPMAN
DRAWN BY: D. CHAPMAN
CHECKED BY: F. FINUCANE
DO NOT SCALE DRAWINGS

sheet contents
site/civil
general details

SHEET NO.:

© Copyright 2024 Mead & Hunt, Inc.
This document, or portions thereof, shall
not be duplicated, disclosed, or used on
any other project or extension of this project
except by written agreement with Mead &
Hunt, Inc. Mead & Hunt, Inc. shall be
responsible for any unauthorized use of, or
alteration to these documents.

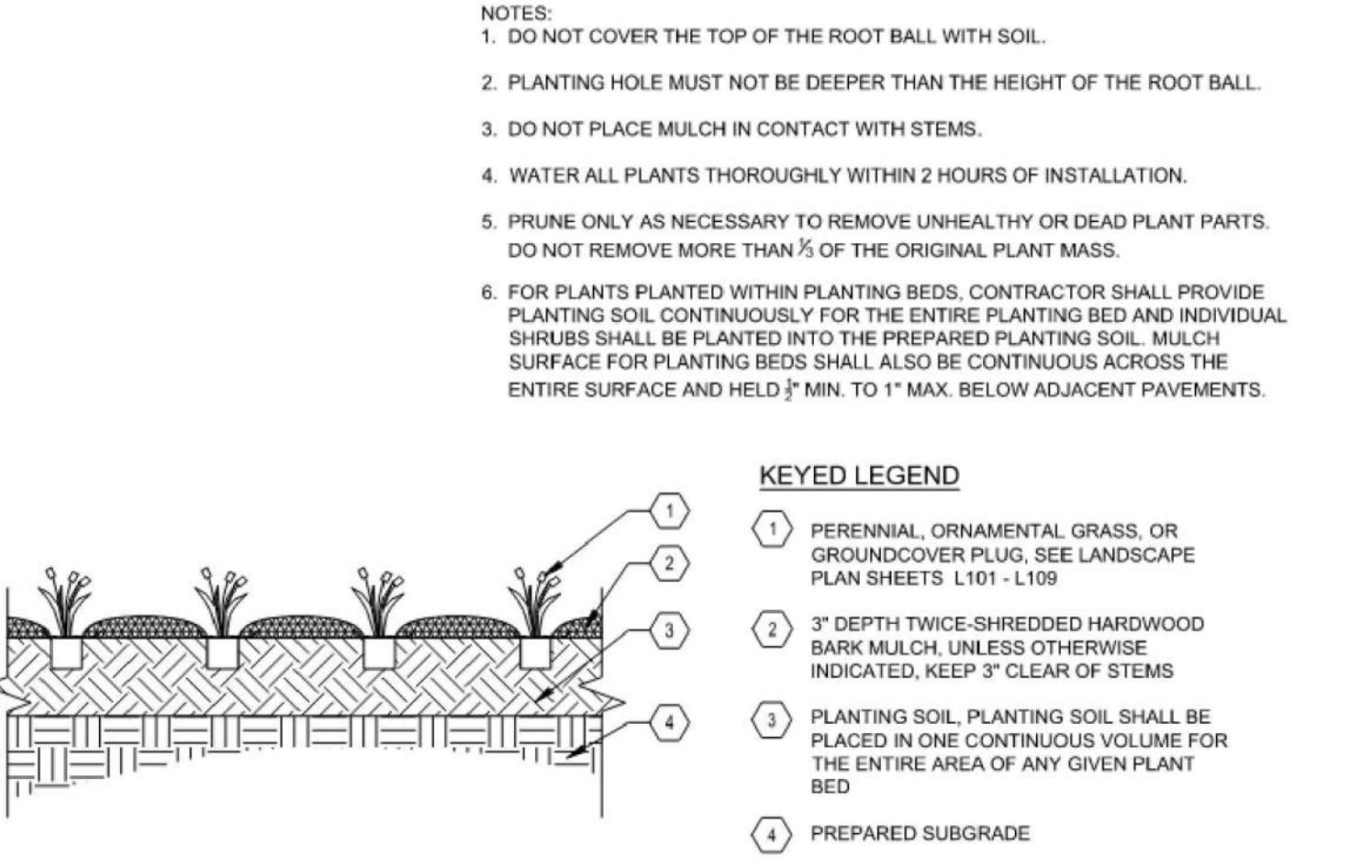
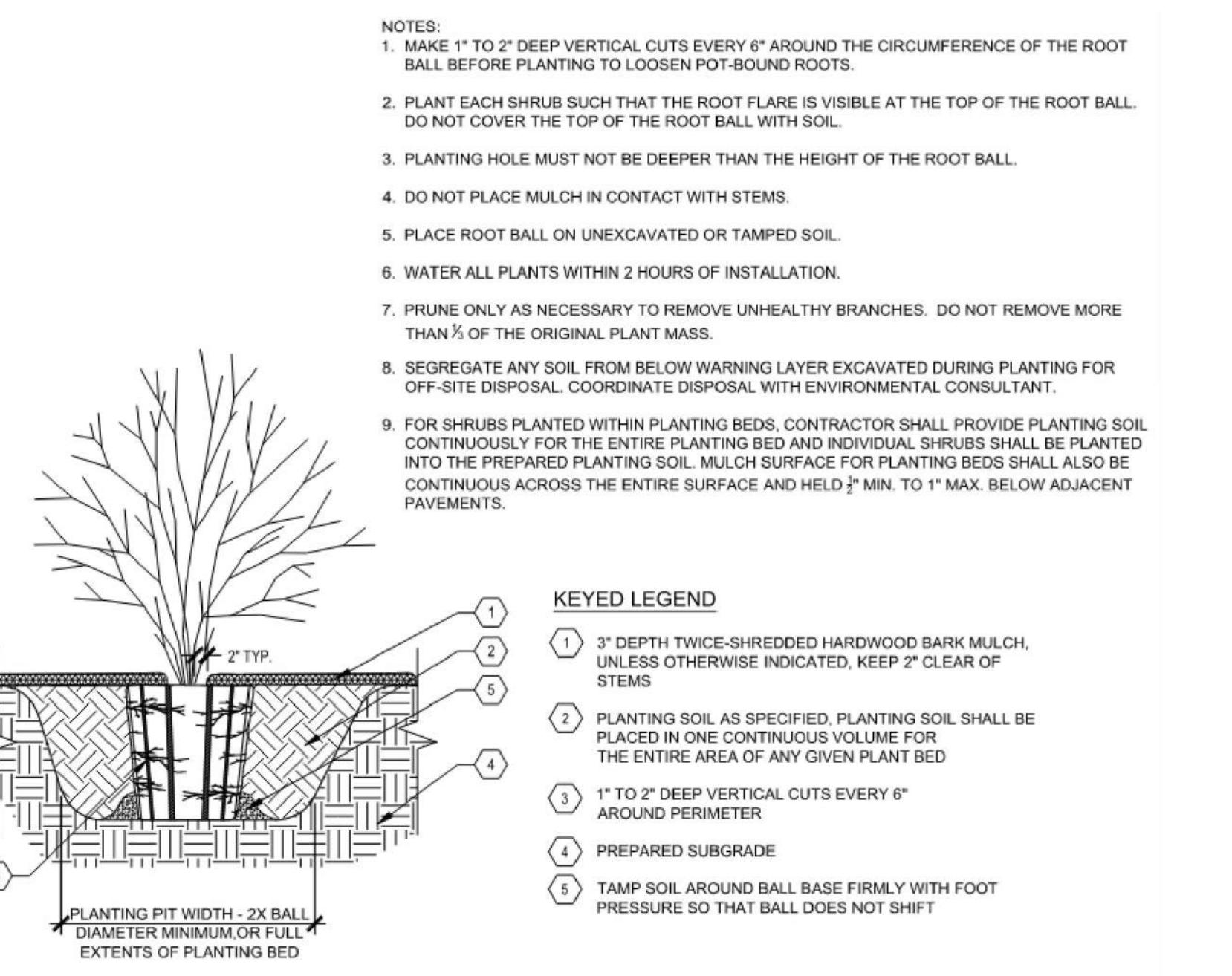
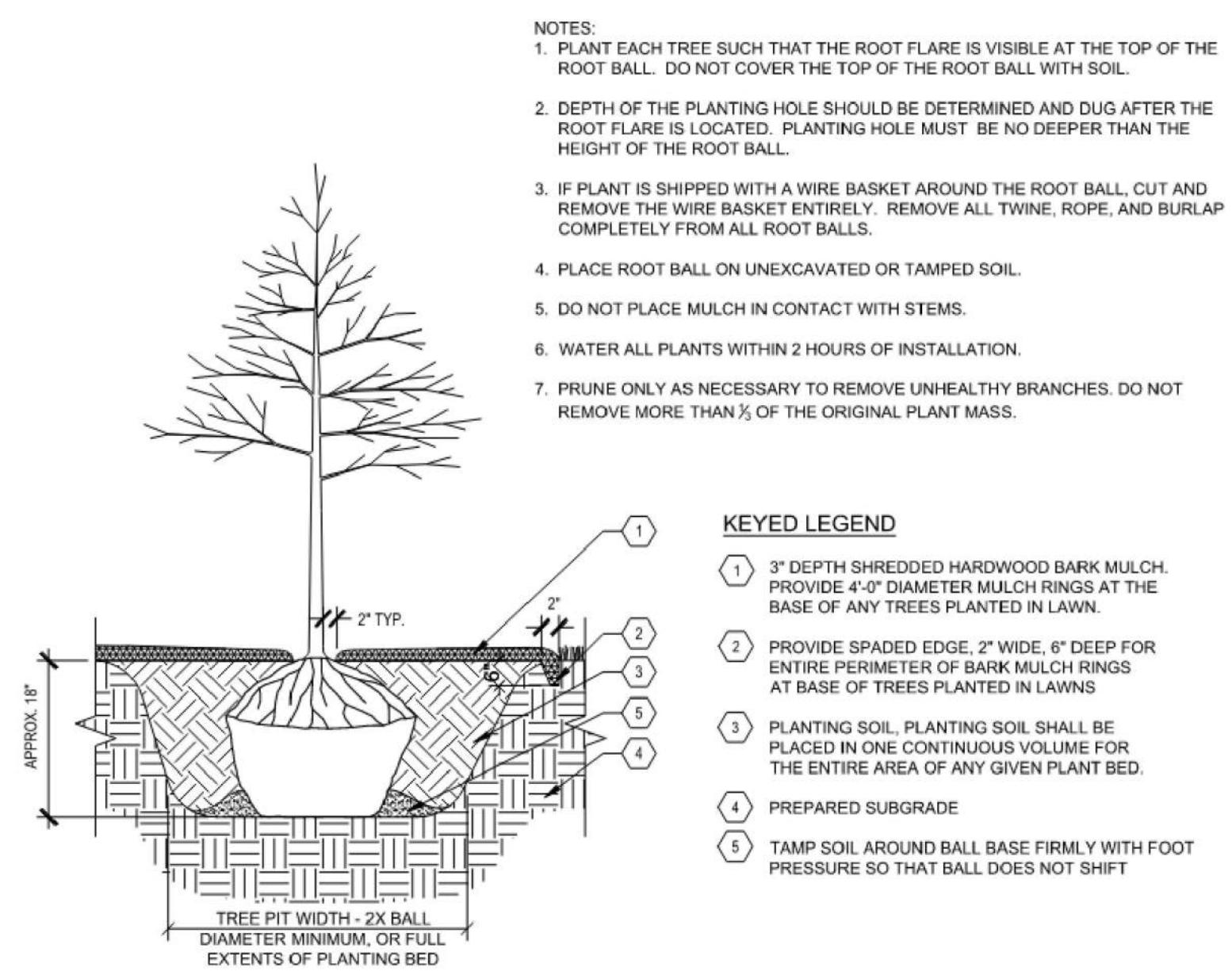
ISSUED
1 02/16/24 PERMIT ISSUE

M&H NO.: 4666672-222049.01
DATE: JANUARY 2024
DESIGNED BY: D. CHAPMAN
DRAWN BY: D. CHAPMAN
CHECKED BY: F. FINUCANE
DO NOT SCALE DRAWINGS

SHEET CONTENTS
LANDSCAPE PLAN DETAILS

SHEET NO.:

L-02

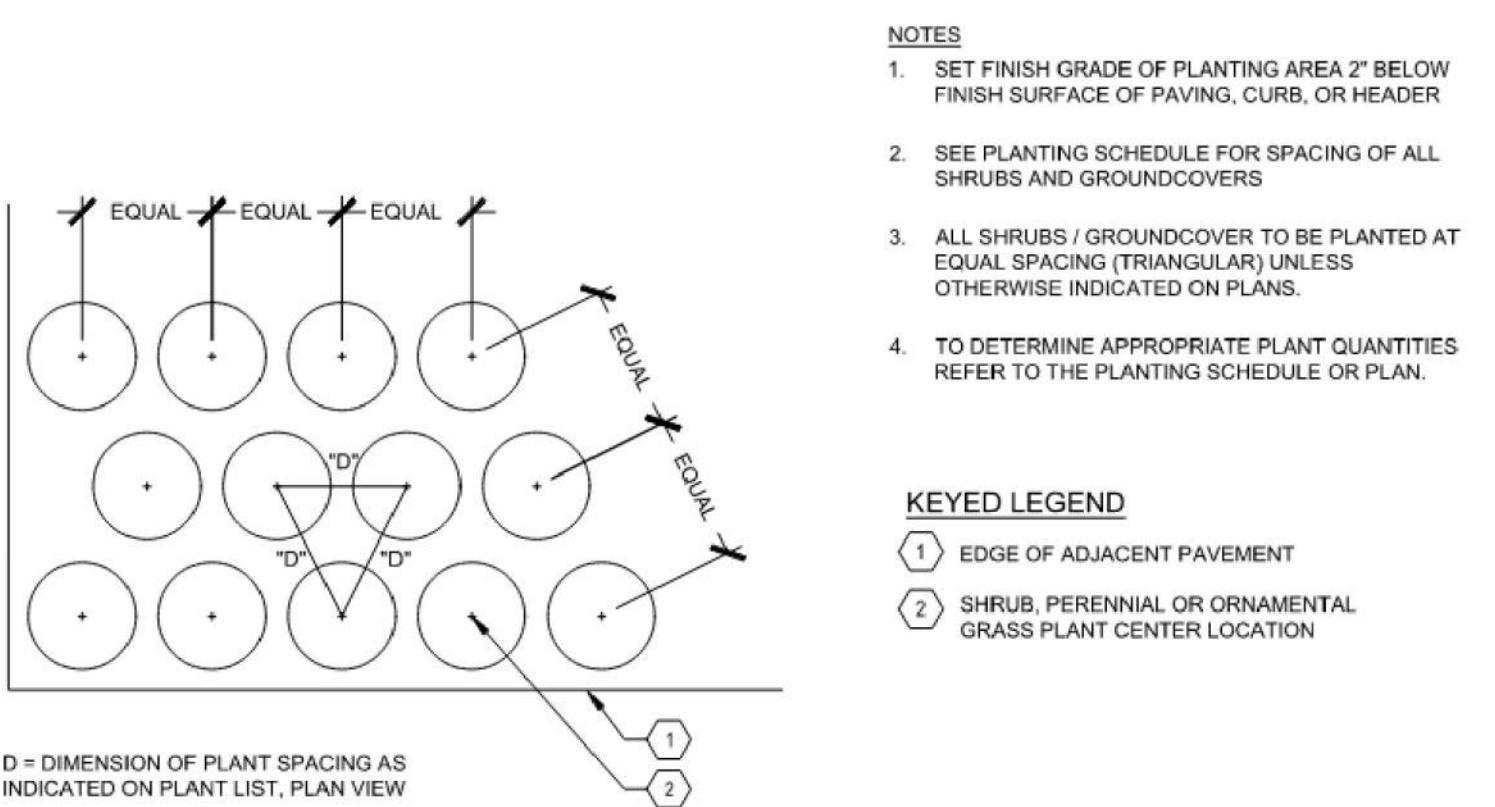


(A) TYPICAL TREE PLANTING

03002
Feb 16, 2024 – 9:30am
X:\4666672\222049.01\TECH1\CAD\06 – CIVIL\C30-222049\00.dwg 2/16/2024 9:30:48 AM

(B) TYPICAL SHRUB PLANTING

SCALE: 1" = 1'

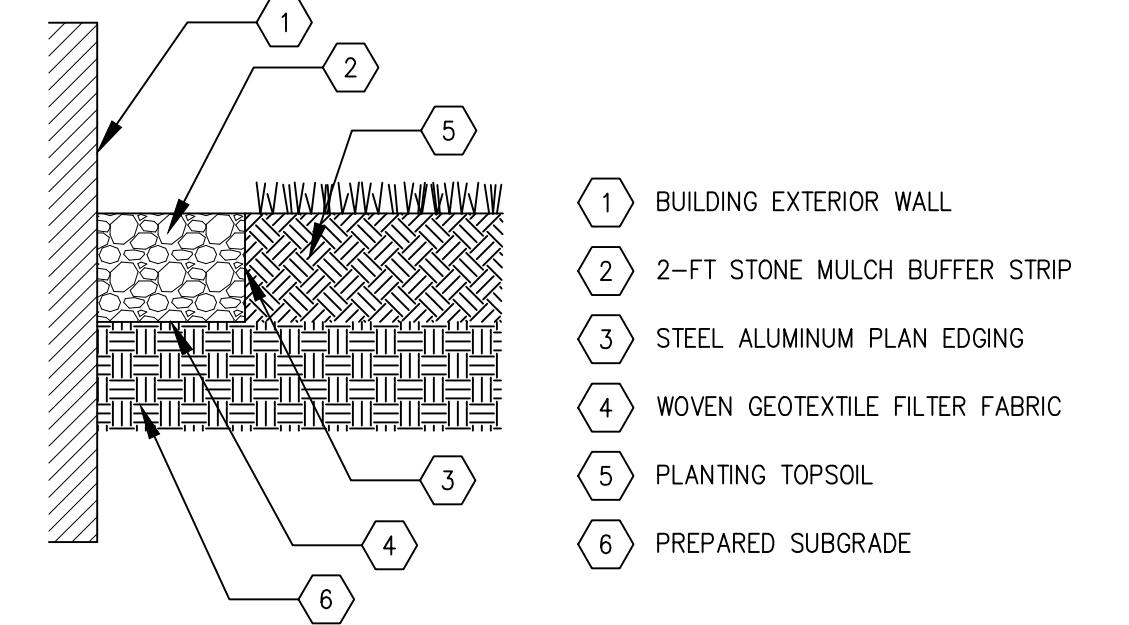
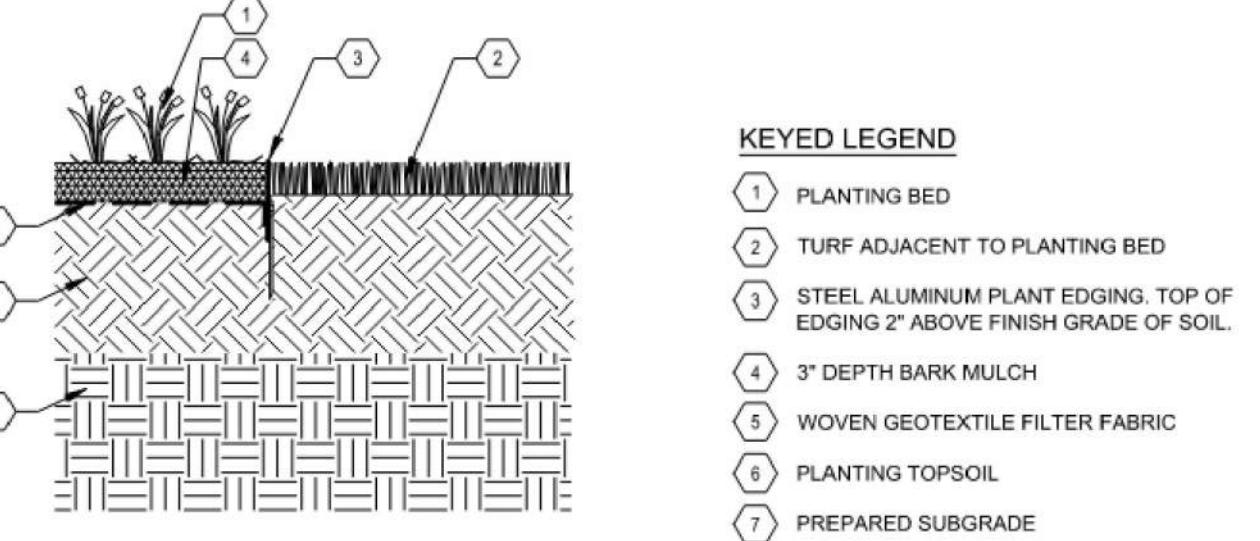


(D) TYPICAL PLANT SPACING

SCALE: 1" = 1'

(E) STEEL PLANT EDGING

SCALE: 1" = 1'



(F) STONE BUFFER STRIP

SCALE: NONE

M&H NO.: 4666672-222049.01
DATE: JANUARY 2024
DESIGNED BY: D. CHAPMAN
DRAWN BY: D. CHAPMAN
CHECKED BY: F. FINUCANE
DO NOT SCALE DRAWINGS

SHEET CONTENTS
LANDSCAPE PLAN DETAILS

SHEET NO.:

L-02

CHR HANSEN PROJECT THOR

CHR HANSEN

ISSUED
1 2/16/24 PERMIT ISSUE

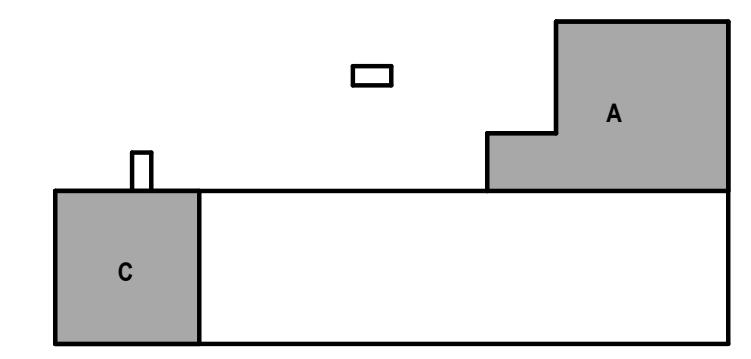
M&H NO.: 4666672-222049.01
DATE: 2/16/24
DESIGNED BY: REK
DRAWN BY: DGK
CHECKED BY: LW
DO NOT SCALE DRAWINGS

SHEET CONTENTS

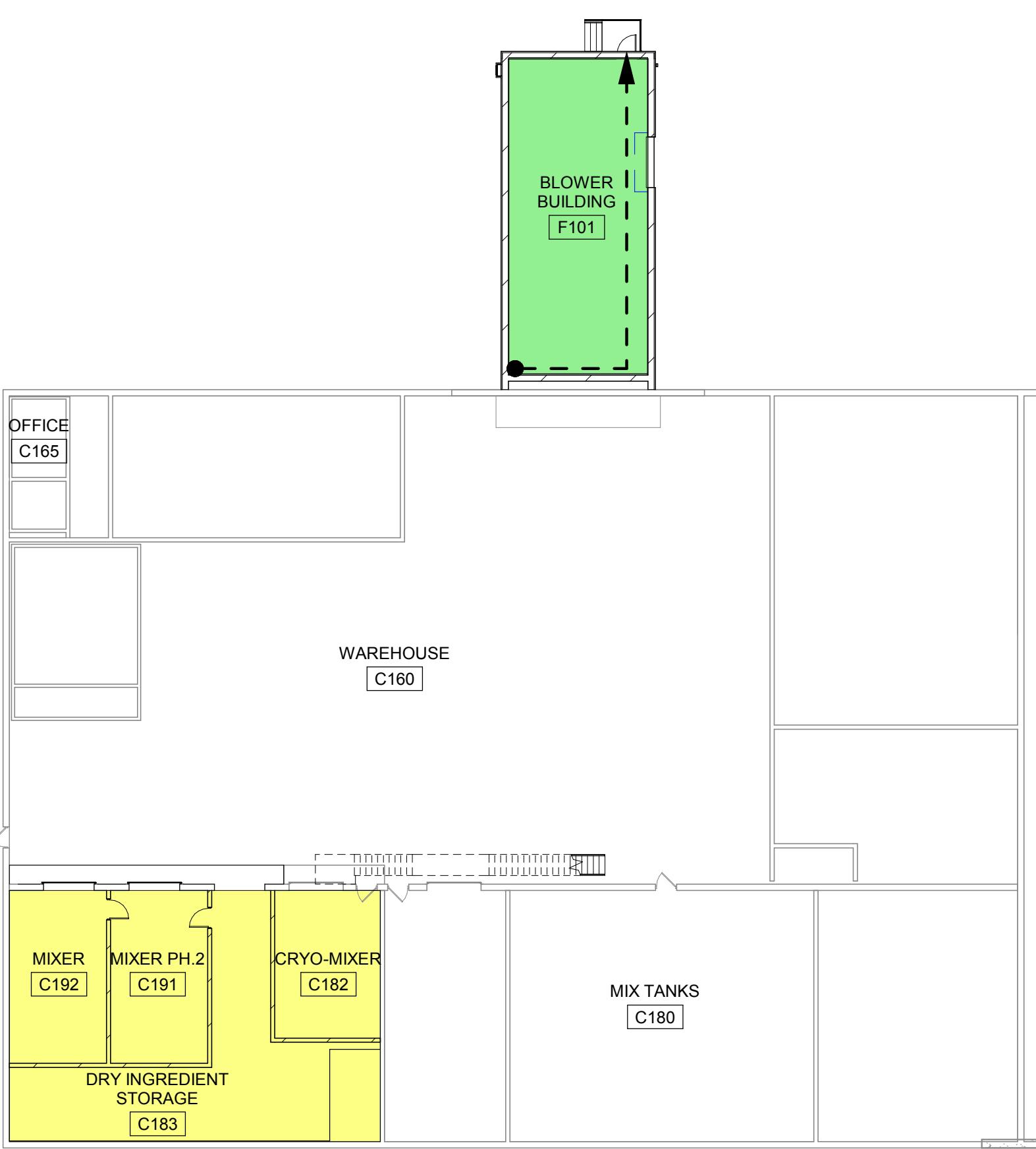
HYGIENIC PLAN -
LOWER LEVEL

SHEET NO.:

G-005

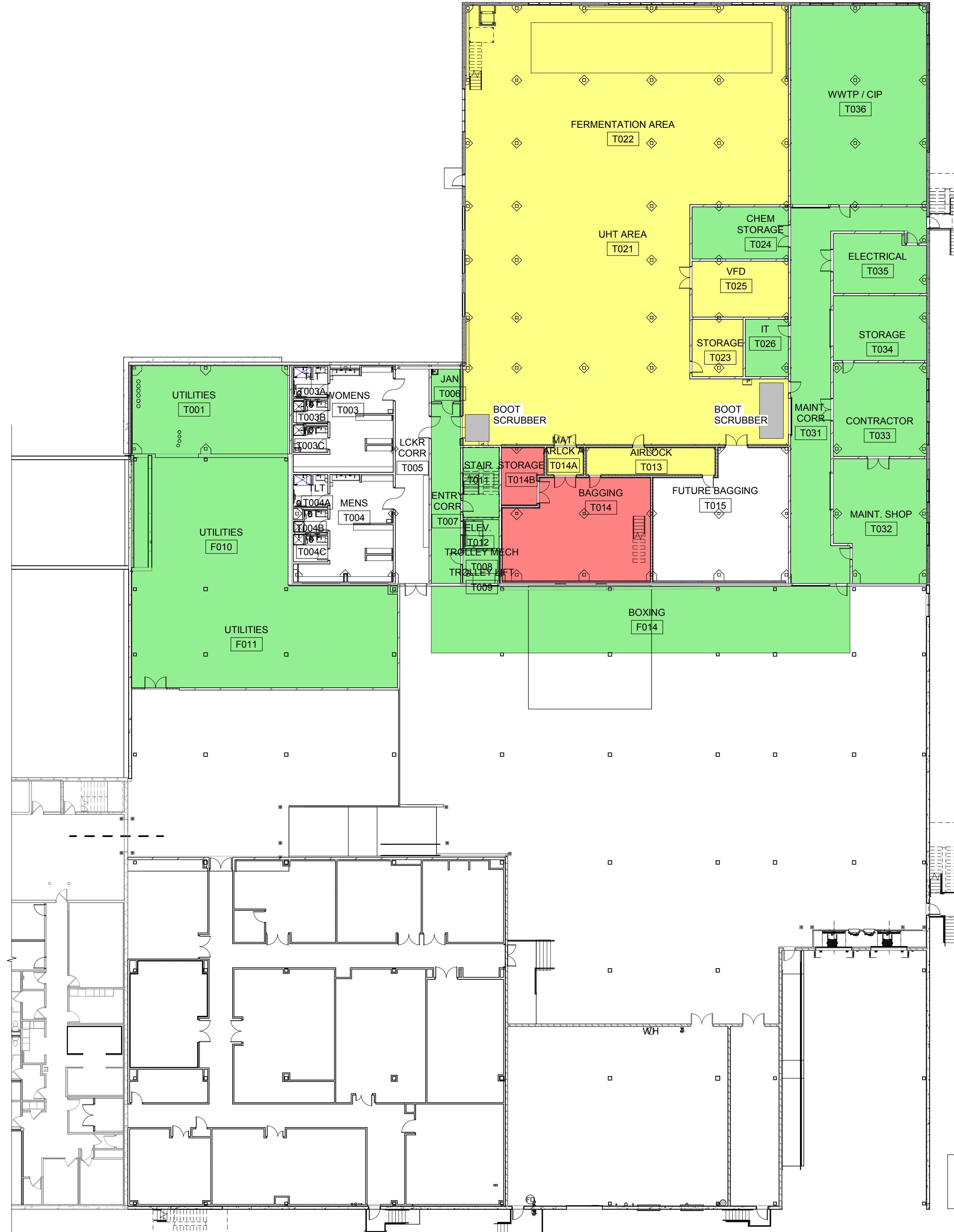


KEY PLAN



2 HYGIENIC ZONES LOWER LEVEL

C:\Revit\Local\4666672-222049.01-A-R23_derekkratchwill.vt
3/7/2024 2:24:03 PM



1 HYGIENIC ZONES LOWER LEVEL

1" = 20'-0"

CHR HANSEN PROJECT THOR

CHR HANSEN

ISSUED
1 2/16/24 PERMIT ISSUE

M&H NO.: 4666672-222049.01
DATE: 2/16/24
DESIGNED BY: REK
DRAWN BY: DGK
CHECKED BY: LW
DO NOT SCALE DRAWINGS

SHEET CONTENTS

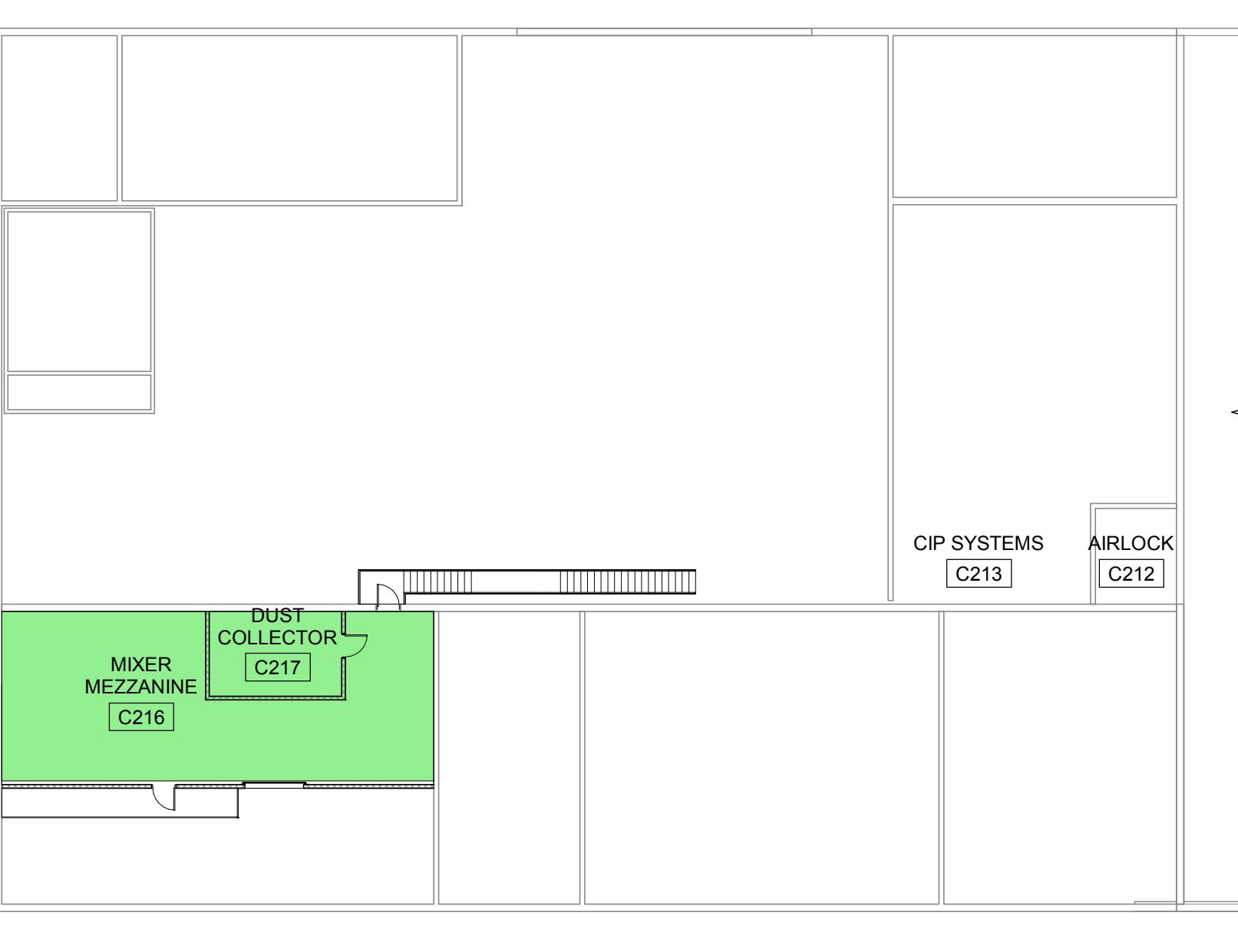
HYGIENIC PLAN -
UPPER LEVEL

SHEET NO.:

G-006

KEY PLAN

A
C



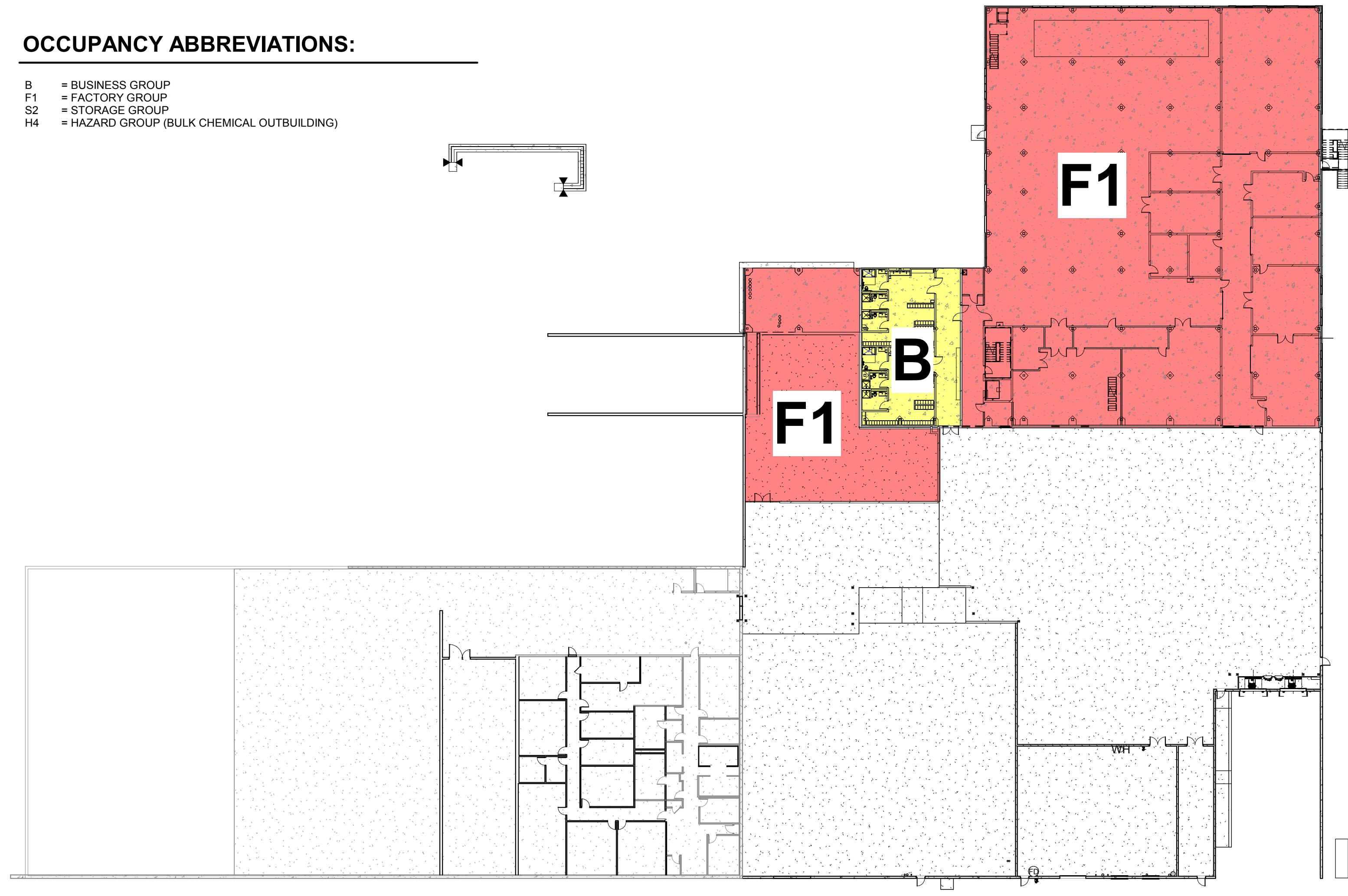
2 HYGIENIC ZONES UPPER LEVEL
1" = 20'-0"



1 HYGIENIC ZONES UPPER LEVEL
1" = 20'-0"

OCCUPANCY ABBREVIATIONS:

B = BUSINESS GROUP
F1 = FACTORY GROUP
S2 = STORAGE GROUP
H4 = HAZARD GROUP (BULK CHEMICAL OUTBUILDING)



1 THOR - LOWER LEVEL OCCUPANCY PLAN
1/32" = 1'-0"

**CHR HANSEN
PROJECT THOR**

Chr Hansen Inc.
9015 W. Maple Street, Allis, WI 53214
www.chr-hansen.com

CHR HANSEN

M&H NO.: 4666672-222049.01
DATE: 2/16/24
DESIGNED BY: REK
DRAWN BY: DGK
CHECKED BY: LW
DO NOT SCALE DRAWINGS

SHEET CONTENTS

CODE OCCUPANCY

SHEET NO.:

G-013

ISSUED
 1 2/16/24 PERMIT ISSUE

M&H NO.: 4666672-222049.01
 DATE: 2/16/24
 DESIGNED BY: REK
 DRAWN BY: DGK
 CHECKED BY: LW
 DO NOT SCALE DRAWINGS

SHEET CONTENTS

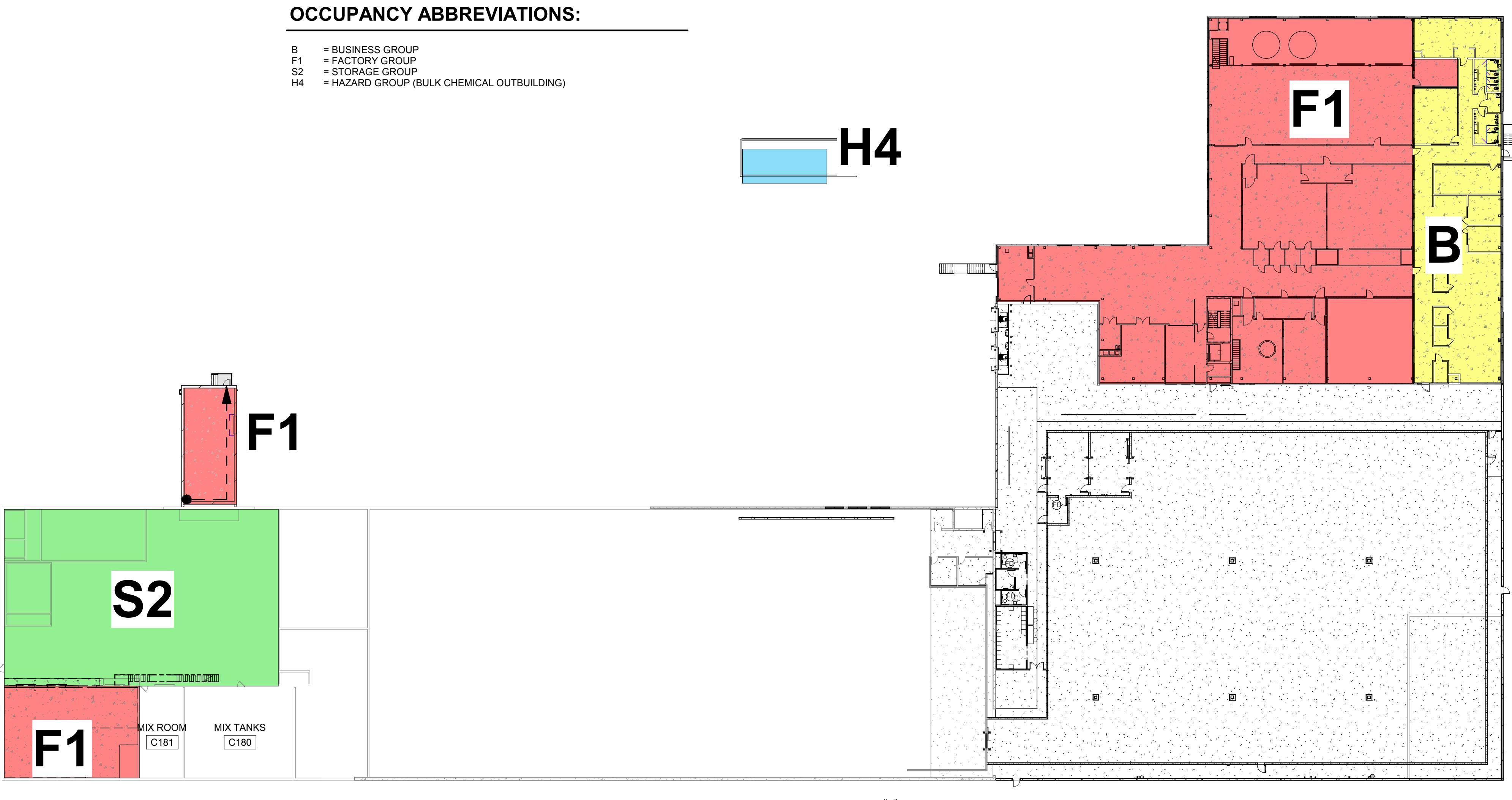
CODE OCCUPANCY

SHEET NO.: _____

G-014

OCCUPANCY ABBREVIATIONS:

B = BUSINESS GROUP
 F1 = FACTORY GROUP
 S2 = STORAGE GROUP
 H4 = HAZARD GROUP (BULK CHEMICAL OUTBUILDING)



① **THOR - UPPER LEVEL OCCUPANCY PLAN**

1/32" = 1'-0"

FLOOR PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON SITE PLAN = 100'-0" ON ARCHITECTURAL DRAWINGS.
- FIELD VERIFY DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- INTERIOR DIMENSIONS ARE FROM FINISH FACE OF WALLS (I.E. GYPSUM WALLBOARD OR CMU), UNLESS NOTED OTHERWISE.
- FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE, UNLESS NOTED OTHERWISE.
- REFERENCE SHEET G-011 THRU G-015 FOR CODE, FIRE RATING, AND SEPARATION REQUIREMENTS.
- PATCH AND REPAIR EXISTING CONSTRUCTION (WALLS, DOORS, CEILINGS, FLOORS, ETC.) AS REQUIRED FROM DEMOLITION OR CONSTRUCTION TO ALLOW FOR THE PREP WORK AND NEW OR COMPLETION OF EXISTING FINISHES. REPAIRS OR REPLACEMENTS MUST BE DURABLE, SEAMLESS, AND MATCH THE EXISTING MATERIAL.
- PATCH FLOOR AND WALL PENETRATIONS CAUSED BY DEMOLITION OF MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING, INCLUDING BUT NOT LIMITED TO PIPING AND CONDUIT RUNS, IN A MANNER THAT IS CONSISTENT WITH THE EXISTING FLOOR AND WALL CONSTRUCTION AND FINISH. PENETRATIONS SHALL MEET MEET FIRE RATINGS.
- COORDINATE THE INSTALLATION OF OWNER-SUPPLIED EQUIPMENT. REFERENCE PLANS, SPECS, AND INTERIOR ELEVATIONS FOR SPECIFIC EQUIPMENT AND ITS INSTALLATION REQUIREMENTS.
- PROVIDE BLOCKING, STIFFENERS, BRACINGS, BACKING PLATES, SUPPORTING BRACKETS, AND NECESSARY SELECTIVE DEMOLITION REQUIRED FOR THE PROPER INSTALLATION OF CASEWORK, TOILET ROOM ACCESSORIES, TOILET PARTITIONS AND MISCELLANEOUS EQUIPMENT.
- RECESSED CABINETS, PANELS, BOXES, ETC. LOCATED IN FIRE-RATED PARTITIONS SHALL BE INSTALLED IN A MANNER WHICH MAINTAINS THE FIRE RATED CONSTRUCTION.
- SEE ENLARGED PLANS FOR NOTES, DIMENSIONS, AND WALL TYPES WITHIN THE DETAIL CALLOUT BOUNDARIES.
- REFERENCE SHEET A-002 FOR INTERIOR PARTITION TYPES. INTERIOR PARTITION TAGS NOTED ENCOMPASS THE ENTIRE LENGTH OF WALL SHOWN TO CORNERS OF ROOM, OVER AND AROUND DOORWAYS SHOWN.
- REFERENCE INTERIOR DRAWINGS FOR FINISHES, DETAILS, SCHEDULES, CASEWORK AND FURNITURE PLANS.
- WALL CURBS ARE SHOWN IN THE STRUCTURAL SET

© Copyright 2024
This document, or any portion thereof, shall not be reproduced, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. All rights reserved. Mead & Hunt, Inc. is responsible for any unauthorized use of, or alteration to these documents.

Chr Hansen Inc.
9015 W. Maple West Allis, WI 53214
www.chr-hansen.com

CHR HANSEN PROJECT THOR

CHR HANSEN

ISSUED
1 2/16/24 PERMIT ISSUE

M&H NO.: 4666672-222049.01
DATE: 2/16/24
DESIGNED BY: REK
DRAWN BY: DGK
CHECKED BY: LW
DO NOT SCALE DRAWINGS

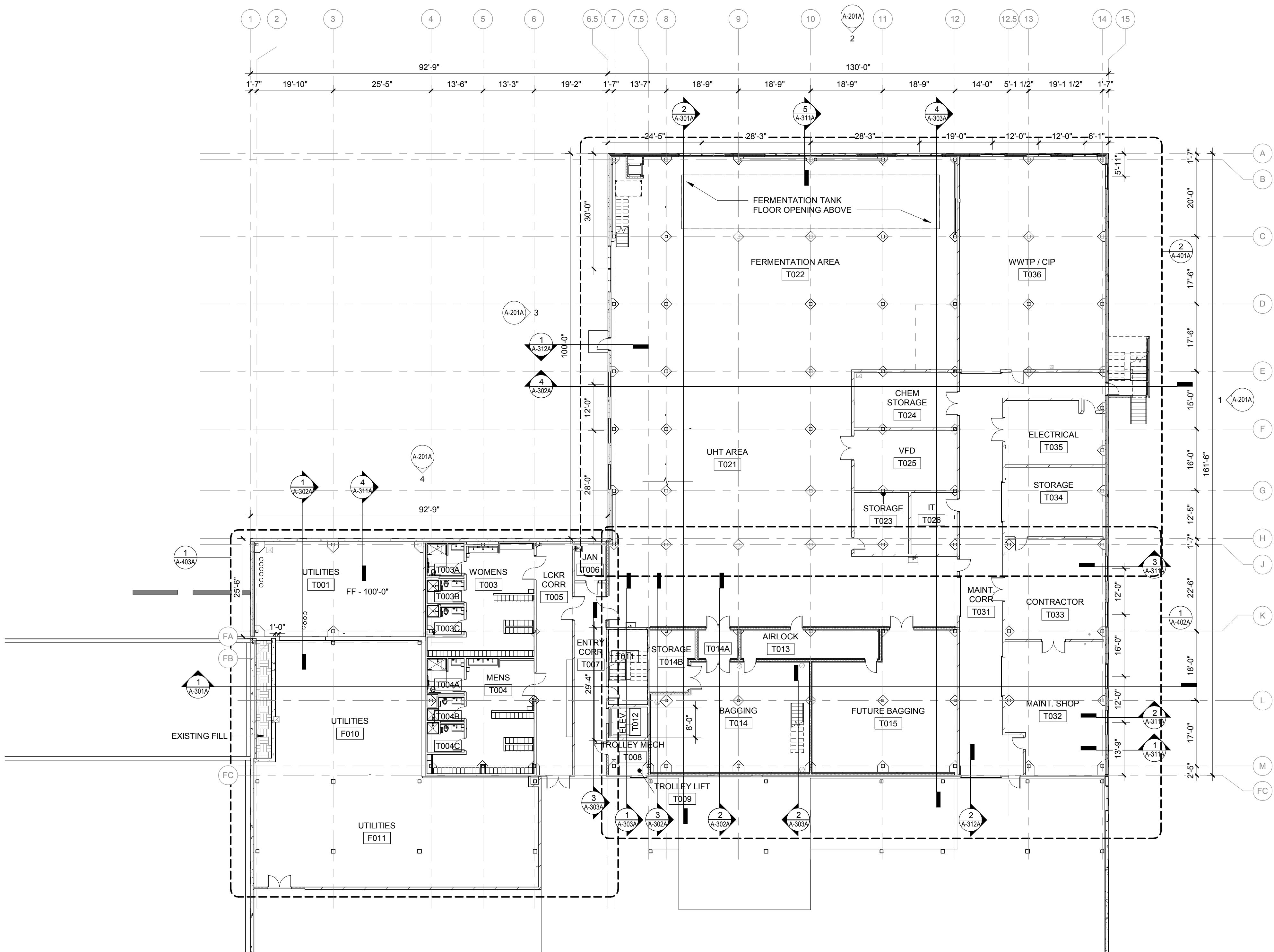
SHEET CONTENTS

LOWER LEVEL FLOOR PLAN

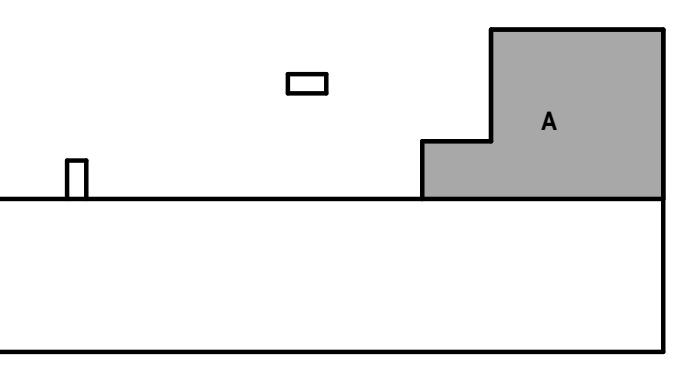
SHEET NO.:

A-101A

KEYED NOTES



1 FLOOR PLAN - THOR LOWER LEVEL
1/16" = 1'-0"



KEY PLAN

FLOOR PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON SITE PLAN = 100'-0" ON ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. INTERIOR DIMENSIONS ARE FROM FINISH FACE OF WALLS (I.E. GYPSUM WALLBOARD OR CMU), UNLESS NOTED OTHERWISE.
4. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE, UNLESS NOTED OTHERWISE.
5. REFERENCE SHEET G-011 THRU G-015 FOR CODE, FIRE RATING, AND SEPARATION REQUIREMENTS.
6. PATCH AND REPAIR EXISTING CONSTRUCTION (WALLS, DOORS, CEILINGS, FLOORS, ETC.) AS REQUIRED FROM DEMOLITION OR CONSTRUCTION TO ALLOW FOR THE PREP WORK AND NEW OR COMPLETION OF EXISTING FINISHES. REPAIRS OR REPLACEMENTS MUST BE DURABLE, SEAMLESS, AND MATCH THE EXISTING MATERIAL.
7. PATCH FLOOR AND WALL PENETRATIONS CAUSED BY DEMOLITION OF MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING, INCLUDING BUT NOT LIMITED TO PIPING AND CONDUIT RUNS, IN A MANNER THAT IS CONSISTENT WITH THE EXISTING FLOOR AND WALL CONSTRUCTION AND FINISH. PENETRATIONS SHALL MEET FIRE RATINGS.
8. COORDINATE THE INSTALLATION OF OWNER-SUPPLIED EQUIPMENT. REFERENCE PLANS, SPECS, AND INTERIOR ELEVATIONS FOR SPECIFIC EQUIPMENT AND ITS INSTALLATION REQUIREMENTS.
9. PROVIDE BLOCKING, STIFFENERS, BRACINGS, BACKING PLATES, SUPPORTING BRACKETS, AND NECESSARY SELECTIVE DEMOLITION REQUIRED FOR THE PROPER INSTALLATION OF CASEWORK, TOILET ROOM ACCESSORIES, TOILET PARTITIONS AND MISCELLANEOUS EQUIPMENT.
10. RECESSED CABINETS, PANELS, BOXES, ETC. LOCATED IN FIRE-RATED PARTITIONS SHALL BE INSTALLED IN A MANNER WHICH MAINTAINS THE FIRE RATED CONSTRUCTION.
11. SEE ENLARGED PLANS FOR NOTES, DIMENSIONS, AND WALL TYPES WITHIN THE DETAIL CALLOUT BOUNDARIES.
12. REFERENCE SHEET A-002 FOR INTERIOR PARTITION TYPES. INTERIOR PARTITION TAGS NOTED ENCOMPASS THE ENTIRE LENGTH OF WALL SHOWN TO CORNERS OF ROOM, OVER AND AROUND DOORWAYS SHOWN.
13. REFERENCE INTERIOR DRAWINGS FOR FINISHES, DETAILS, SCHEDULES, CASEWORK AND FURNITURE PLANS.
14. WALL CURBS ARE SHOWN IN THE STRUCTURAL SET

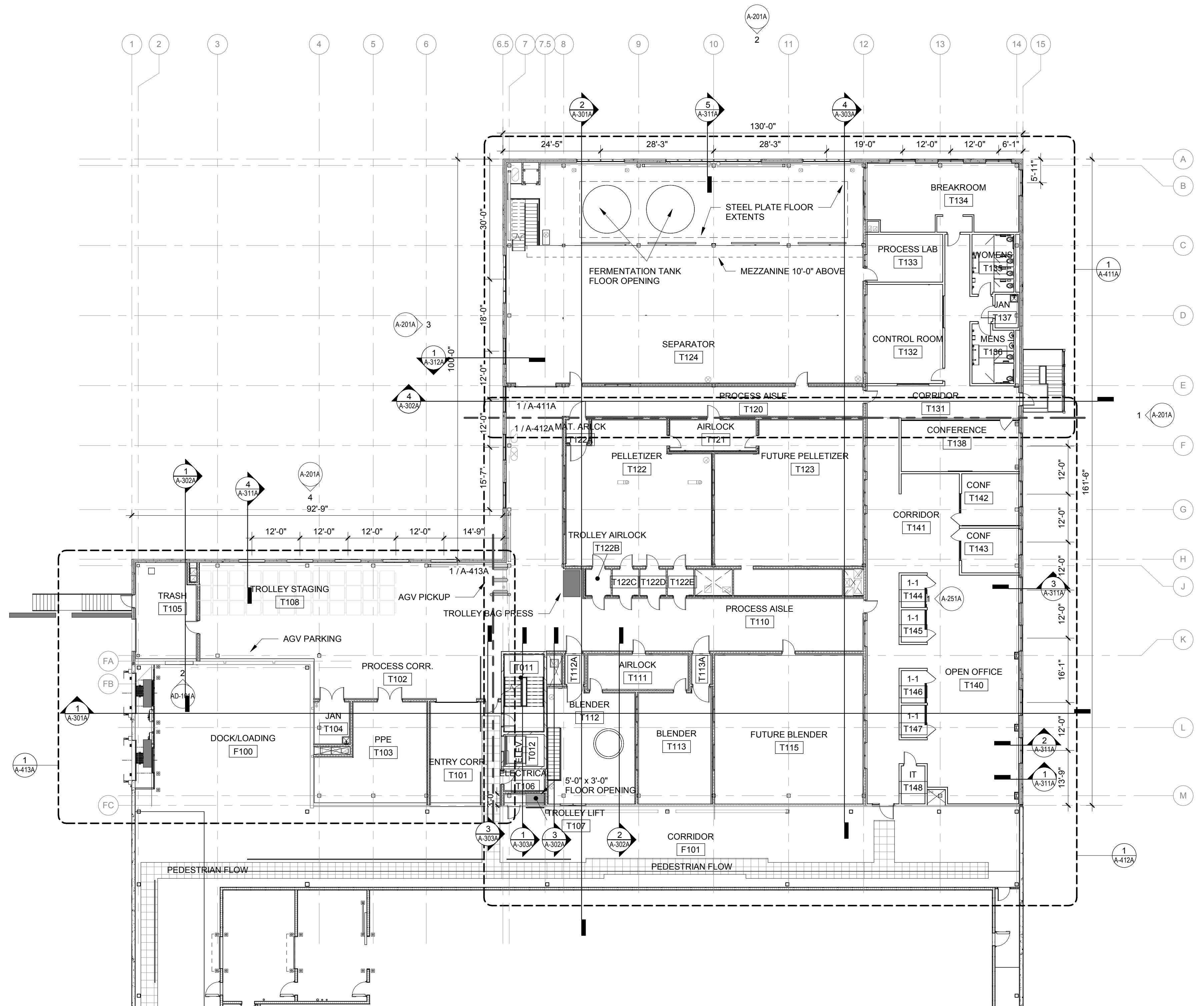
© Copyright 2024
 This document, or any portion thereof, shall not be reproduced, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. All rights reserved. Mead & Hunt, Inc. is responsible for any unauthorized use of, or alteration to these documents.

Chr Hansen Inc.
 901 W. Maple West Allis, WI 53214
 www.chr-hansen.com

CHR HANSEN PROJECT THOR

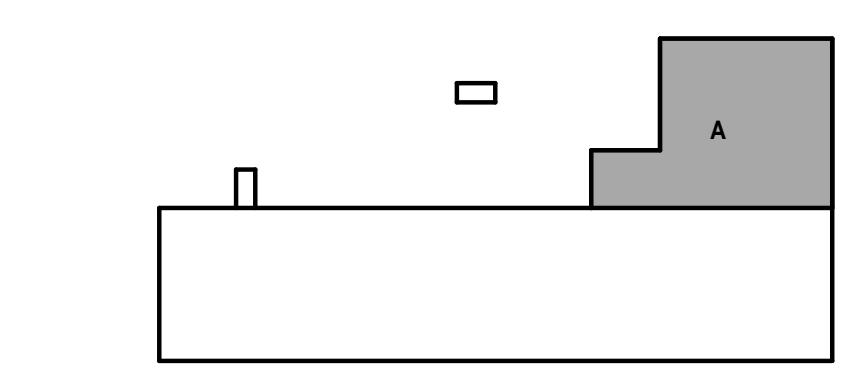
CHR HANSEN

ISSUED
 1 2/16/24 PERMIT ISSUE



1 FLOOR PLAN - THOR UPPER LEVEL

1/16" = 1'-0"



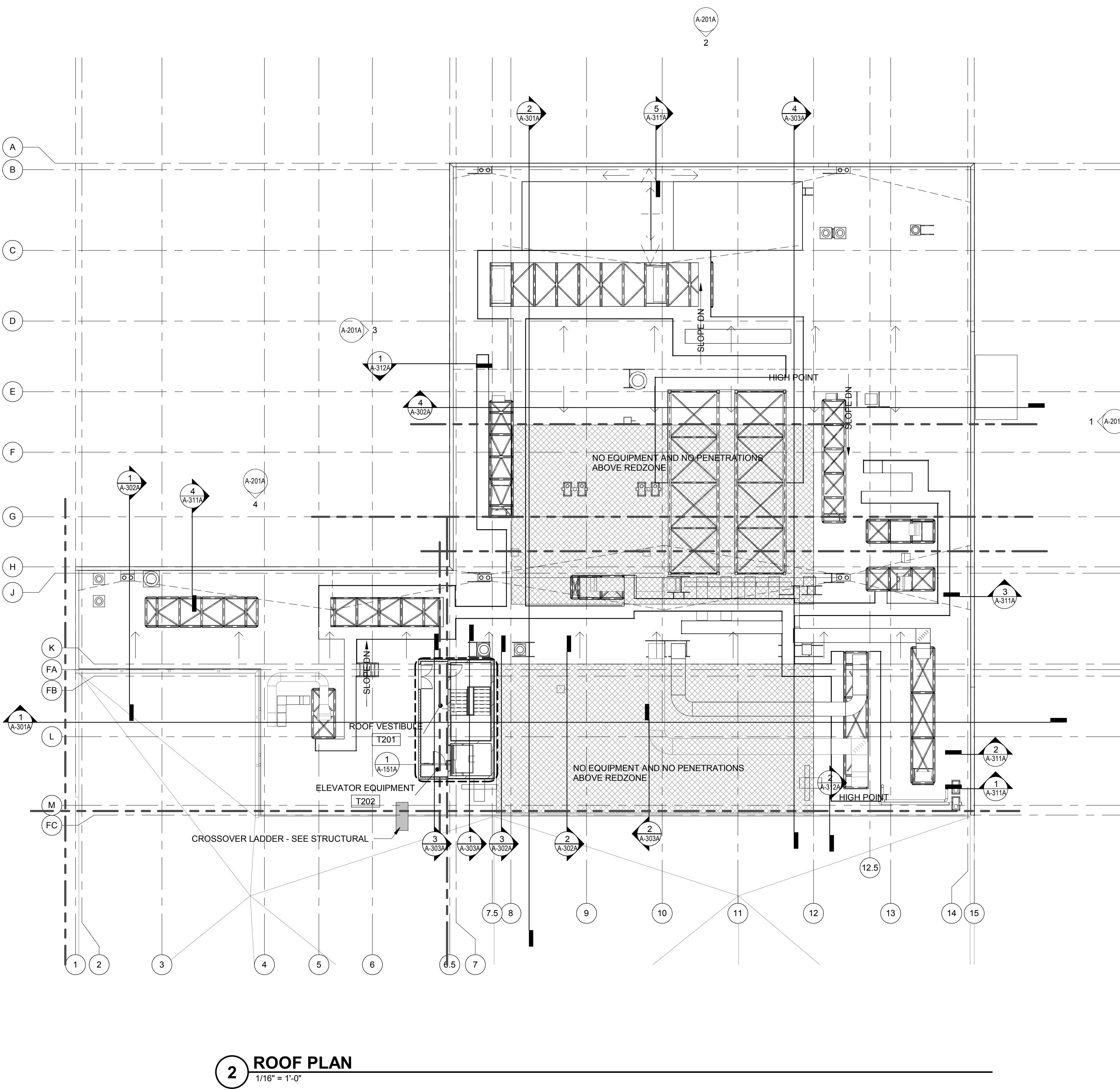
UPPER LEVEL FLOOR PLAN

SHEET NO.:

A-102A

M&H NO.: 4666672-222049.01
 DATE: 2/16/24
 DESIGNED BY: REK
 DRAWN BY: DGK
 CHECKED BY: LW
 DO NOT SCALE DRAWINGS

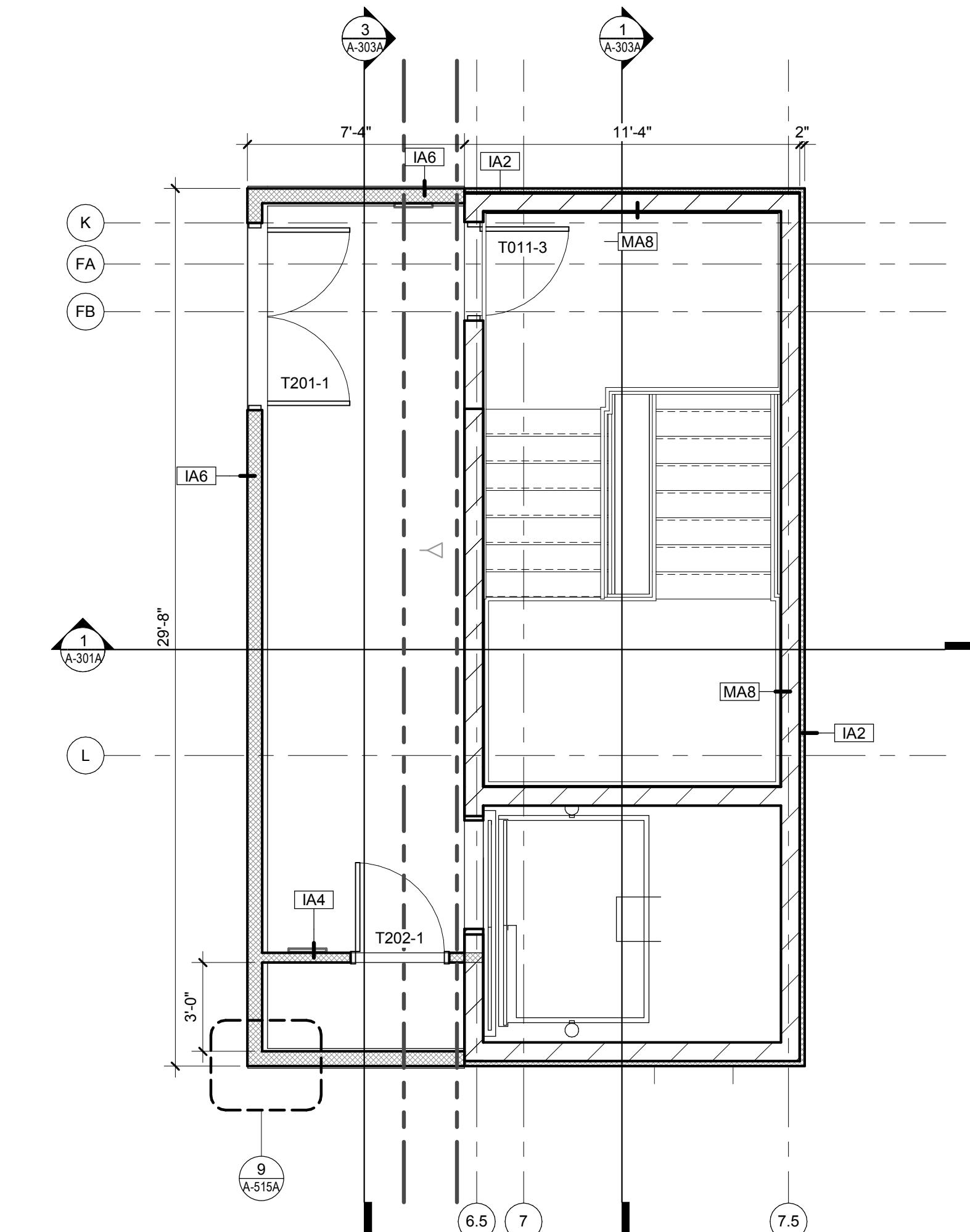
SHEET CONTENTS



GENERAL NOTES - ROOF PLAN

- 1 ROOF INSULATION TO BE A MINIMUM OF (2) LAYERS 2.6" POLYISO, UNLESS NOTED OTHERWISE.
- 2 PROVIDE MIN. 1/4" PER FOOT AT TAPERED ROOF INSULATION LOCATION UNLESS NOTED OTHERWISE.
- 3 SEE MECHANICAL, PLUMBING, TECHNOLOGY, AND ELECTRICAL DRAWINGS FOR ADDITIONAL ROOF PENETRATIONS NOT SHOWN.
- 4 SEE S-001 FOR ROOF LOADING REQUIREMENTS.

© Copyright 2024
This document, or any portion thereof, shall not be reproduced, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. All rights reserved. Mead & Hunt, Inc. is responsible for any unauthorized use of, or alteration to these documents.



VESTIBULE ROOF PLAN

1 1/4" = 1'-0"

CHR HANSEN PROJECT THOR

Chr Hansen Inc.
9015 W. Maple West Allis, WI 53214
www.chr-hansen.com

CHR HANSEN

ISSUED
1 2/16/24 PERMIT ISSUE

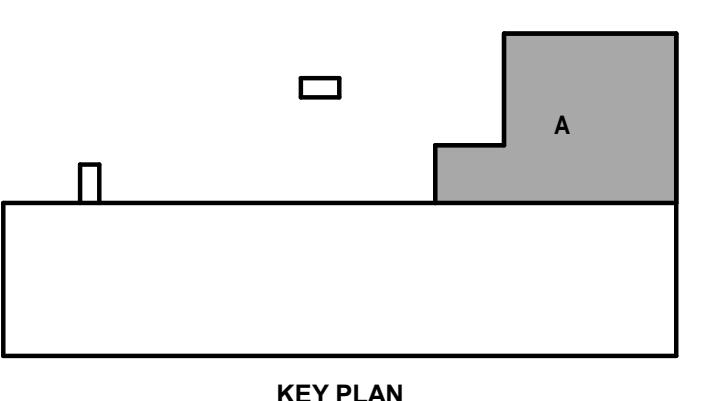
M&H NO.: 4666672-222049.01
DATE: 2/16/24
DESIGNED BY: REK
DRAWN BY: DGK
CHECKED BY: LW
DO NOT SCALE DRAWINGS

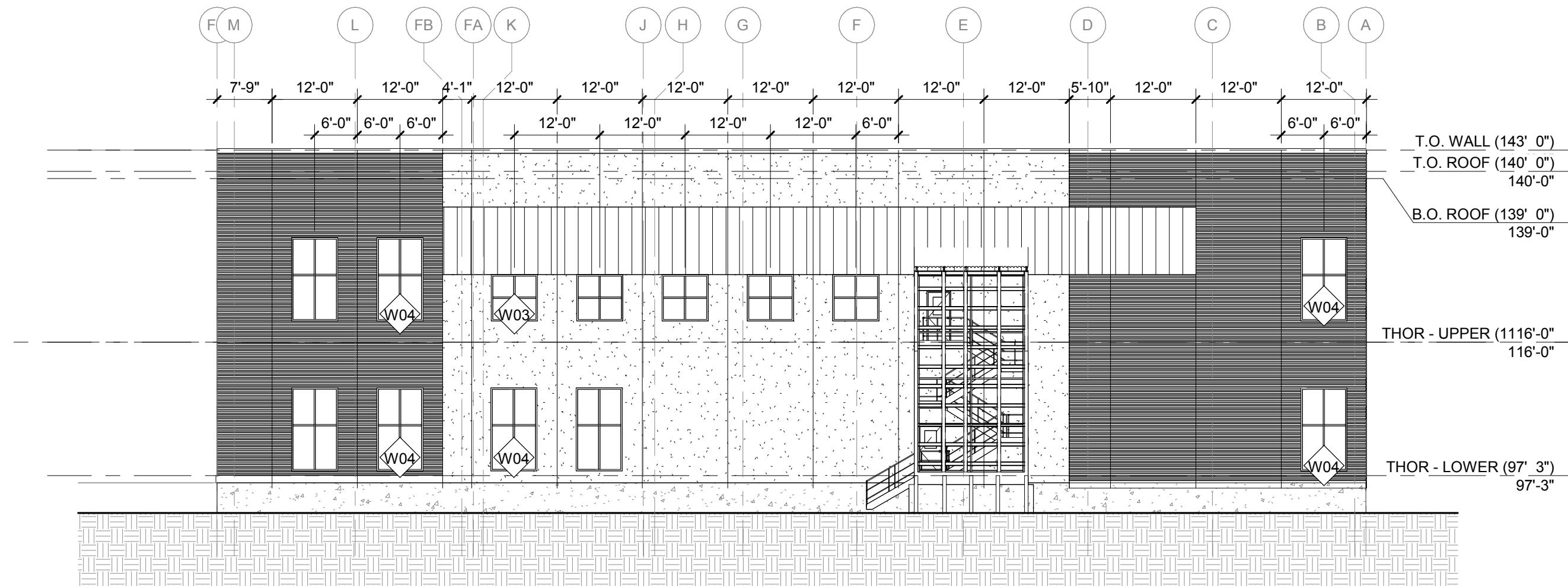
SHEET CONTENTS

ROOF PLAN

SHEET NO.:

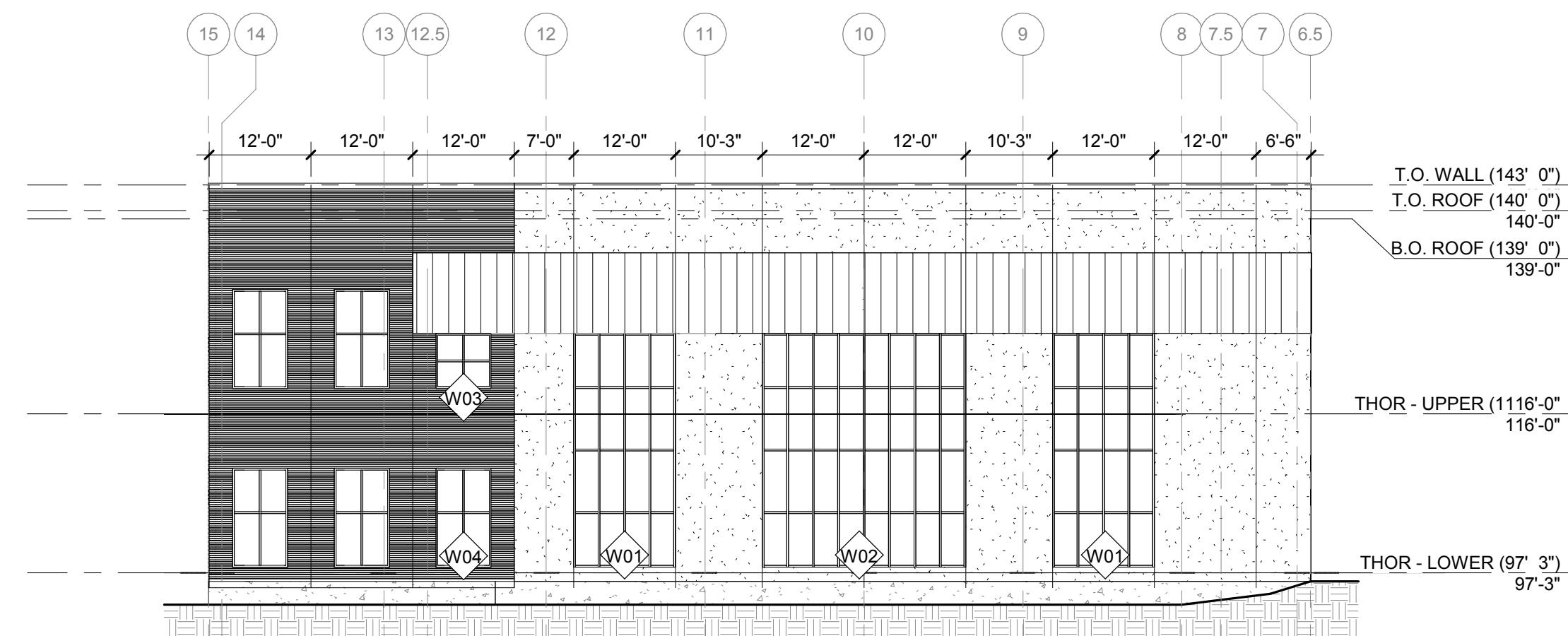
A-151A



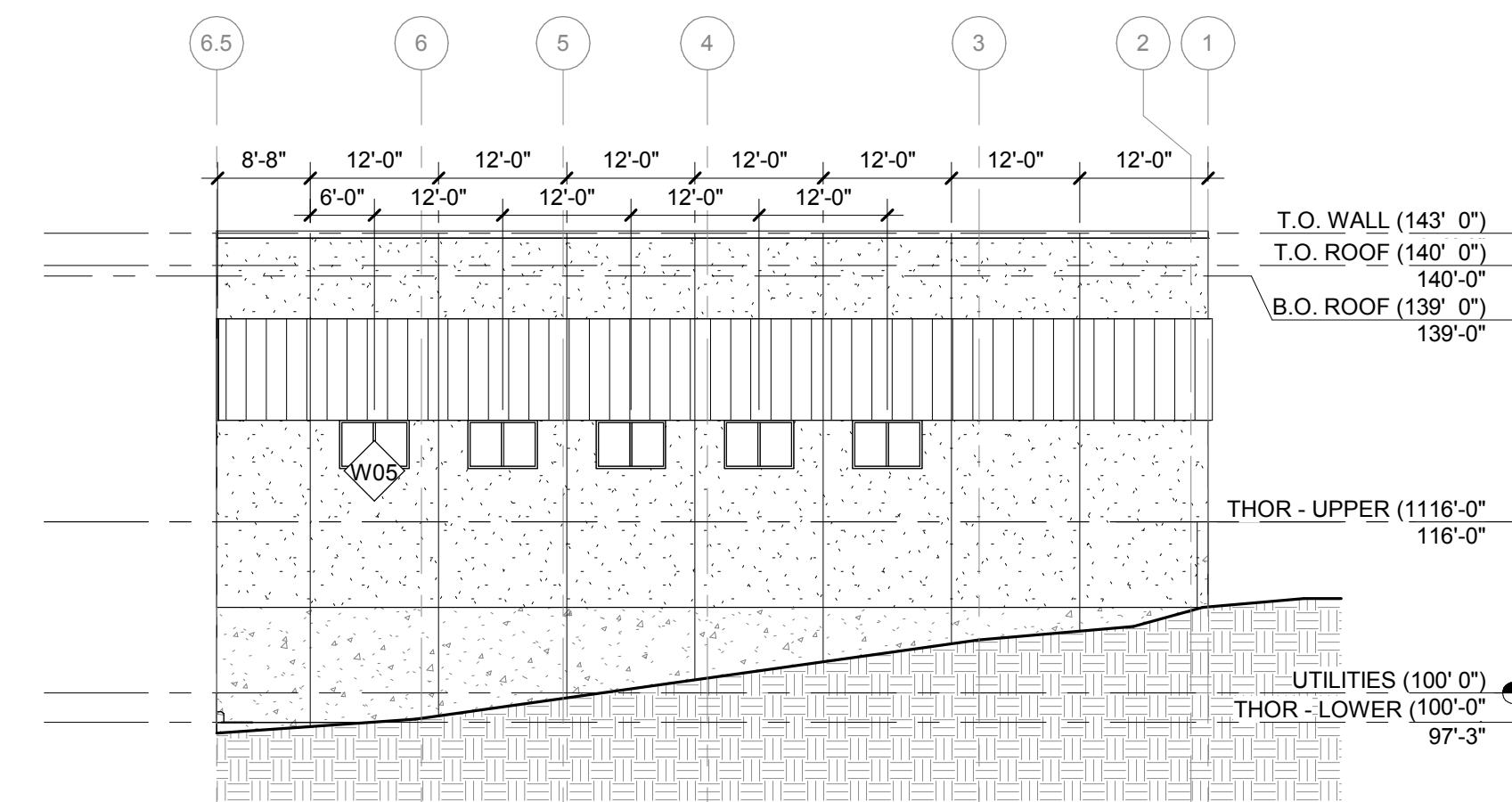


1 THOR - EAST ELEVATION

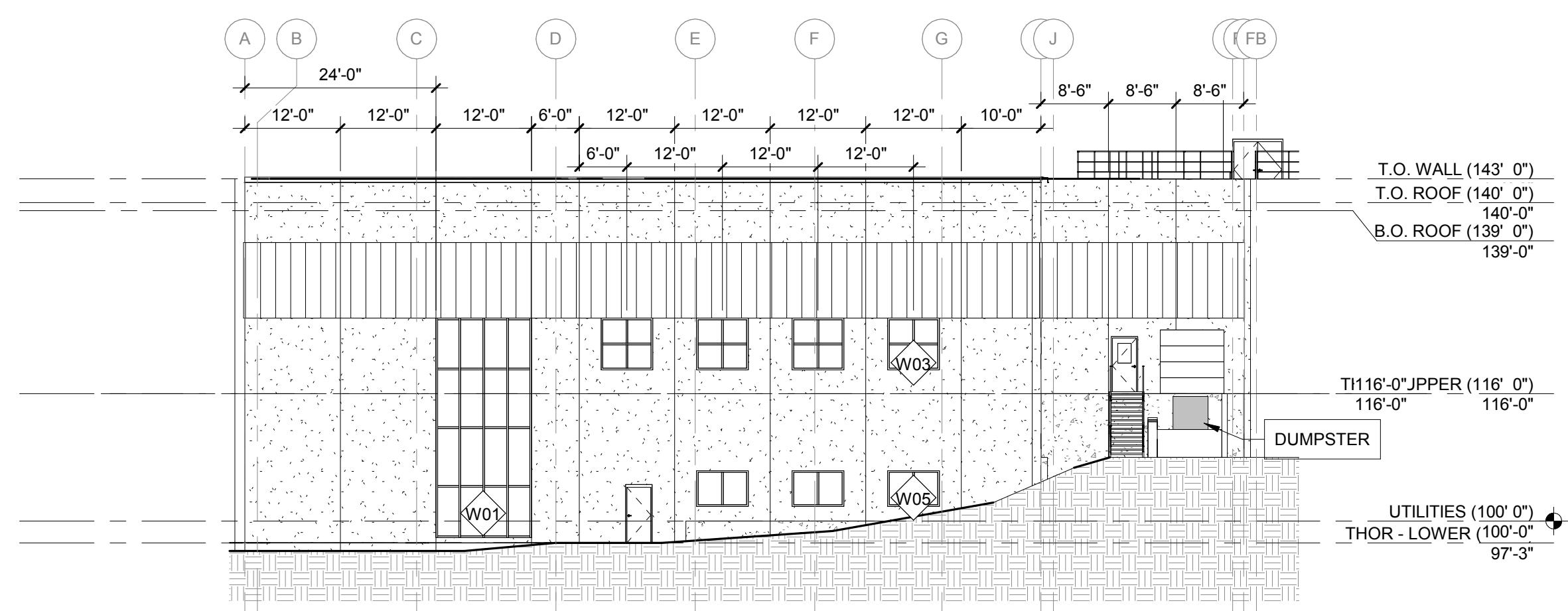
© Copyright 2024
This document, or any portion thereof, shall
not be reproduced, disclosed, or used on any
other project or extension of this project
except by written agreement with Mead &
Hunt, Inc. Mead & Hunt is not
responsible for any unauthorized use of, or
alteration to these documents.



2 THOR - NORTH ELEVATION



4 THOR - NORTH ELEVATION BEYOND



3 THOR - WEST ELEVATION

CHR HANSEN PROJECT THOR

Chr Hansen Inc.
901 W. Maple West Allis, WI 53214
www.chr-hansen.com

CHR HANSEN

ISSUED
1 2/16/24 PERMIT ISSUE

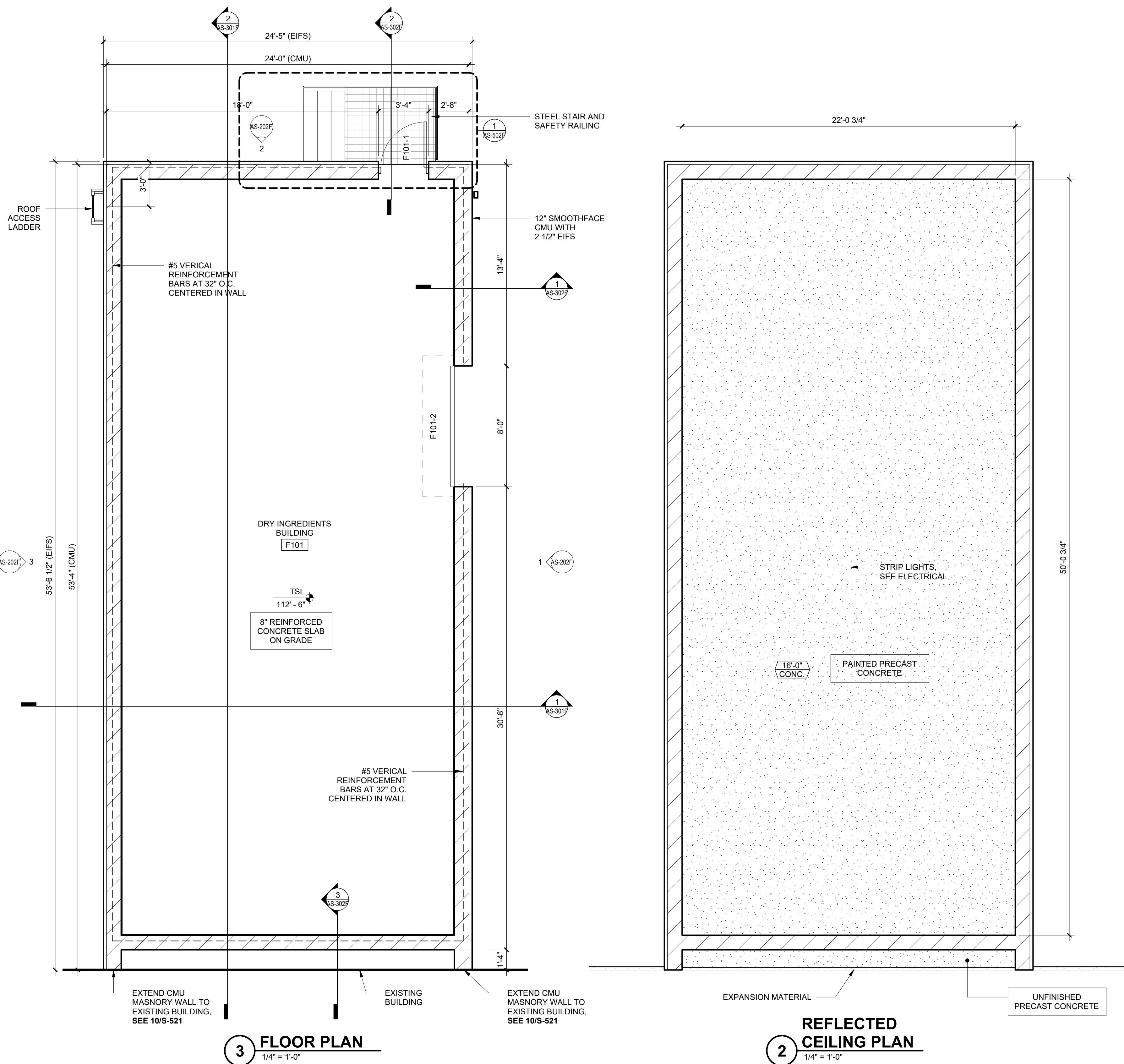
M&H NO.: 4666672-222049.01
DATE: 2/16/24
DESIGNED BY: REK
DRAWN BY: DGK
CHECKED BY: LW
DO NOT SCALE DRAWINGS

SHEET CONTENTS

EXTERIOR
ELEVATIONS

SHEET NO.:

A-201A



GENERAL NOTES - FLOOR PLAN

- 1 SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON SITE PLAN 162'-0" = 100'-0" ON ARCHITECTURAL DRAWINGS.
- 2 FIELD VERIFY DIMENSIONS, BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- 3 INTERIOR AND EXTERIOR DIMENSIONS ARE FROM FINISH FACE OF WALLS, UNLESS NOTED OTHERWISE.
- 4 REFERENCE SHEET SERIES G-011 FOR ALL CODE, FIRE RATING, AND SEPARATION REQUIREMENTS.
- 5 COORDINATE INSTALLATION OF OWNER-SUPPLIED EQUIPMENT. REFERENCE PLANS, SPECS, AND INTERIOR ELEVATIONS FOR SPECIFIC EQUIPMENT AND ITS INSTALLATION REQUIREMENTS.
- 6 SEE ENLARGED PLANS FOR NOTES, DIMENSIONS, AND WALL TYPES WITHIN THE DETAIL CALLOUT BOUNDARIES.
- 7 FINISHED FLOOR ELEVATION 169.00' GLOBAL OR 107.0' LOCAL.
- 8 SEE S-521 FOR MASONRY WALL STANDARD DETAILS.

GENERAL NOTES - CEILING PLAN

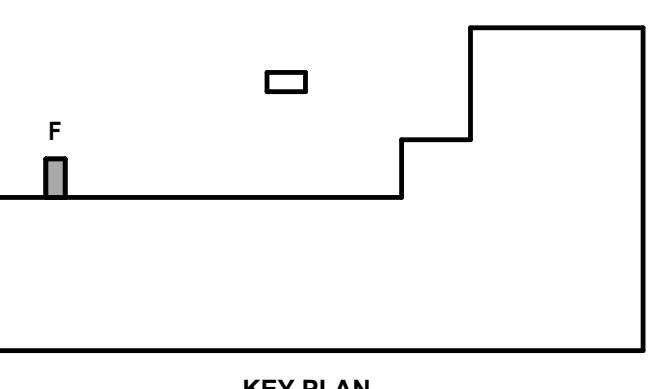
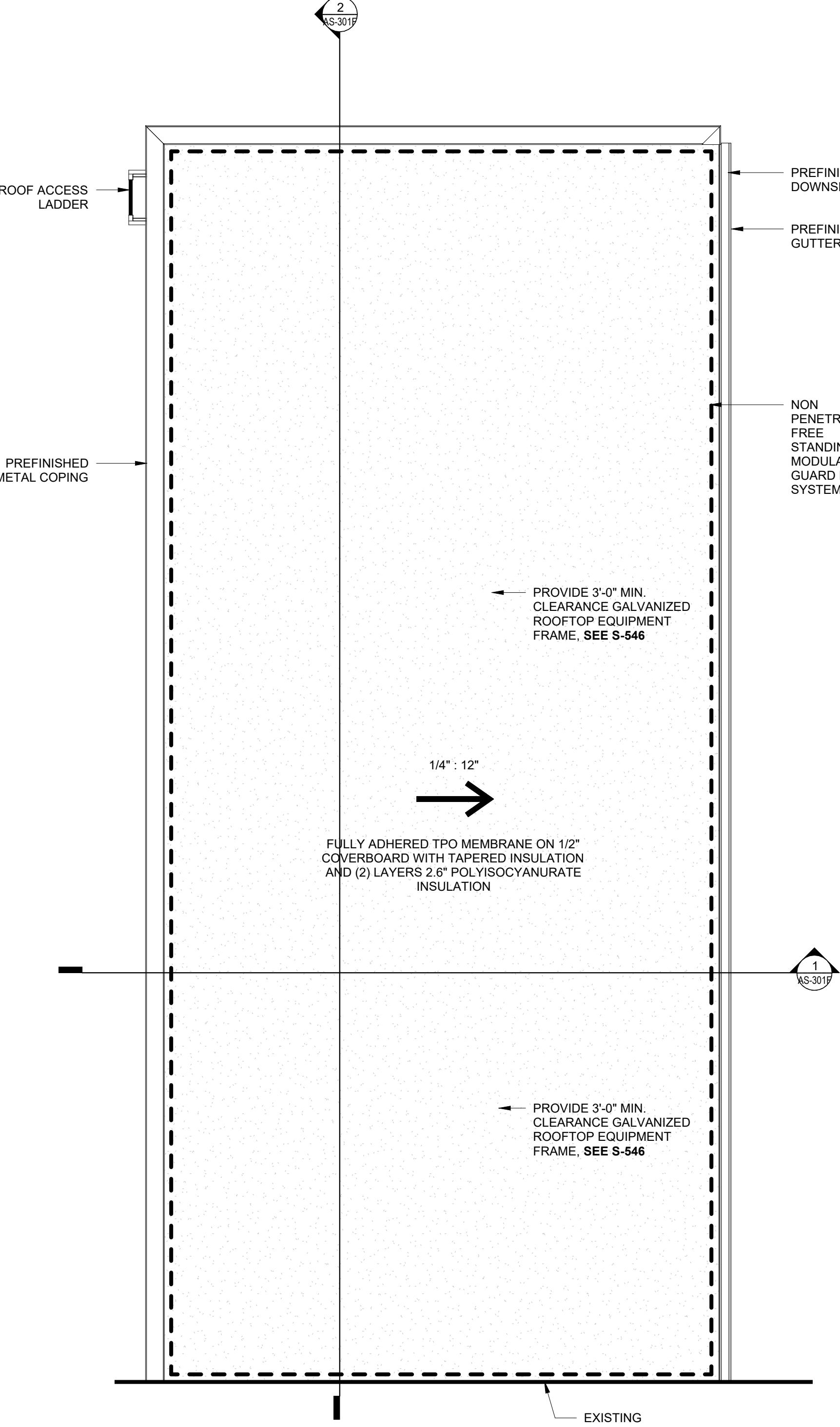
- 1 SEE ROOM FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES.
- 2 CENTER LIGHTS, SPRINKLERS, FIRE DETECTION EQUIPMENT, OCCUPANCY SENSORS OR OTHER CEILING EQUIPMENT OR APPURTENANCES IN ACOUSTICAL PANELS, GYPSUM BOARD SOFFITS, AND BETWEEN OTHER CEILING MOUNTED FIXTURES.
- 3 REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR FIXTURE TYPES AND COMPLETE CONSTRUCTION REQUIREMENTS.
- 4 EXPOSED, UNFINISHED STRUCTURE, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION AND TECHNOLOGY SYSTEMS TO BE PAINTED TO MATCH CEILING.

REFLECTED CEILING PLAN

1/4" = 1'-0"

GENERAL NOTES - ROOF PLAN

- 1 ROOF INSULATION TO BE A MINIMUM OF (2) LAYERS 2.6" POLYISO, UNLESS NOTED OTHERWISE.
- 2 PROVIDE MIN. 1/4" PER FOOT AT TAPERED ROOF INSULATION LOCATION UNLESS NOTED OTHERWISE.
- 3 SEE MECHANICAL, PLUMBING, TECHNOLOGY, AND ELECTRICAL DRAWINGS FOR ADDITIONAL ROOF PENETRATIONS NOT SHOWN.
- 4 SEE S-001 FOR ROOF LOADING REQUIREMENTS.



© Copyright 2024
This document or any portion thereof shall
not be duplicated, disclosed, or used on any
other project or extension of this project
except by written agreement with Mead &
Hunt, Inc. Mead & Hunt, Inc. is
responsible for any unauthorized use of, or
alteration to these documents.

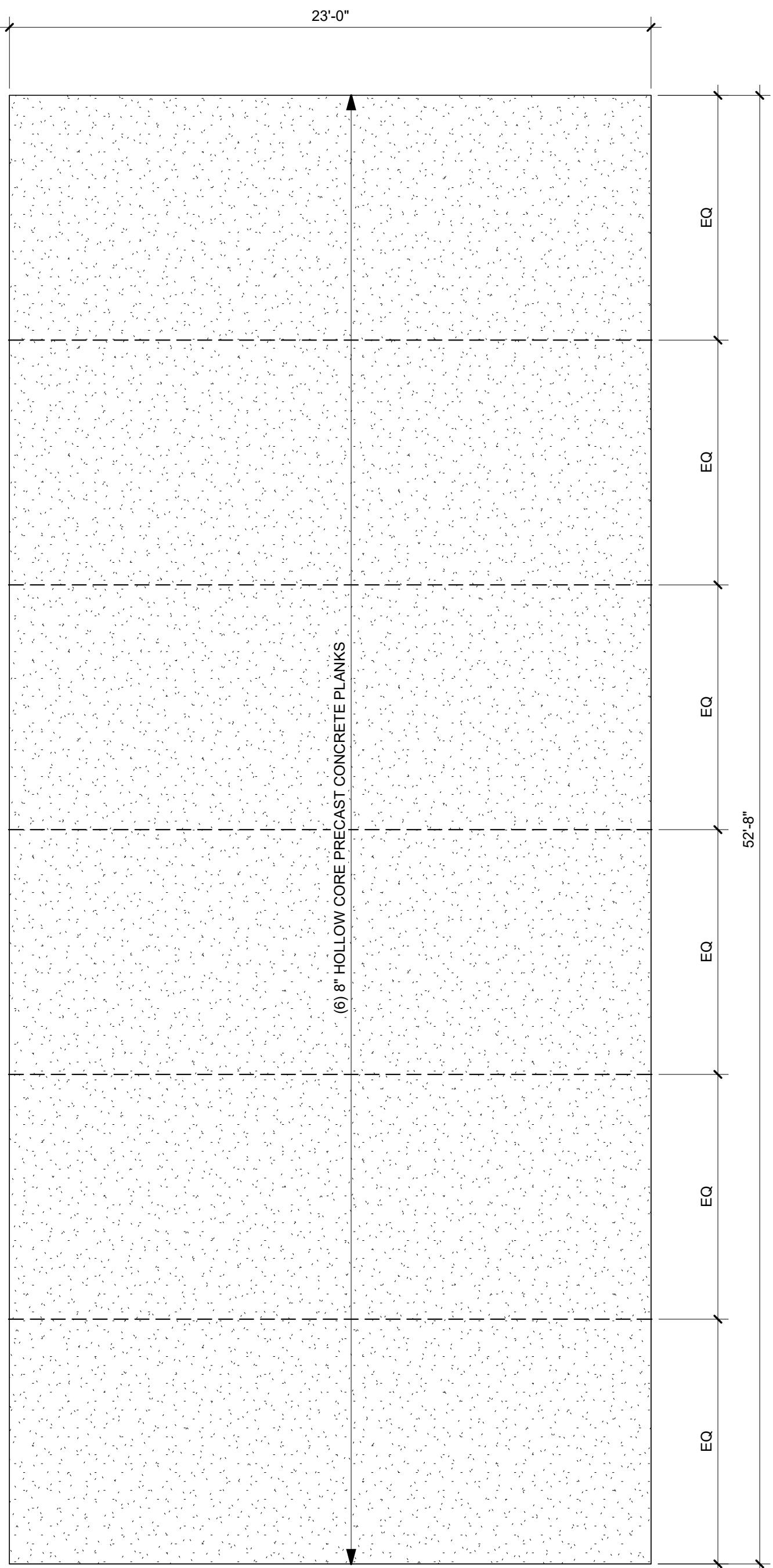
CHR HANSEN PROJECT THOR

Chr Hansen Inc.
9015 W. Maple Allis, WI 53214
www.chr-hansen.com

CHR HANSEN

ISSUED

1 2/16/24 PERMIT ISSUE



1 ROOF FRAMING PLAN
1/4" = 1'-0"

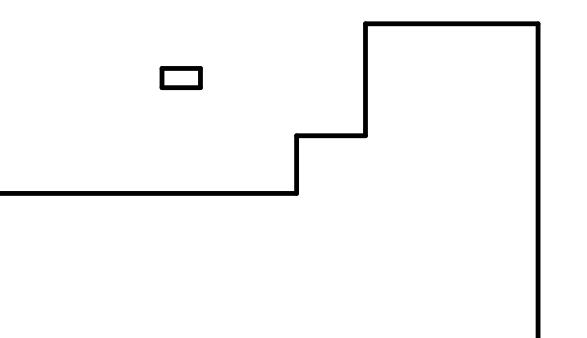
M&H NO.: 4666672-222049.01
DATE: 2/16/24
DESIGNED BY: REK
DRAWN BY: JTR
CHECKED BY: LW
DO NOT SCALE DRAWINGS

SHEET CONTENTS

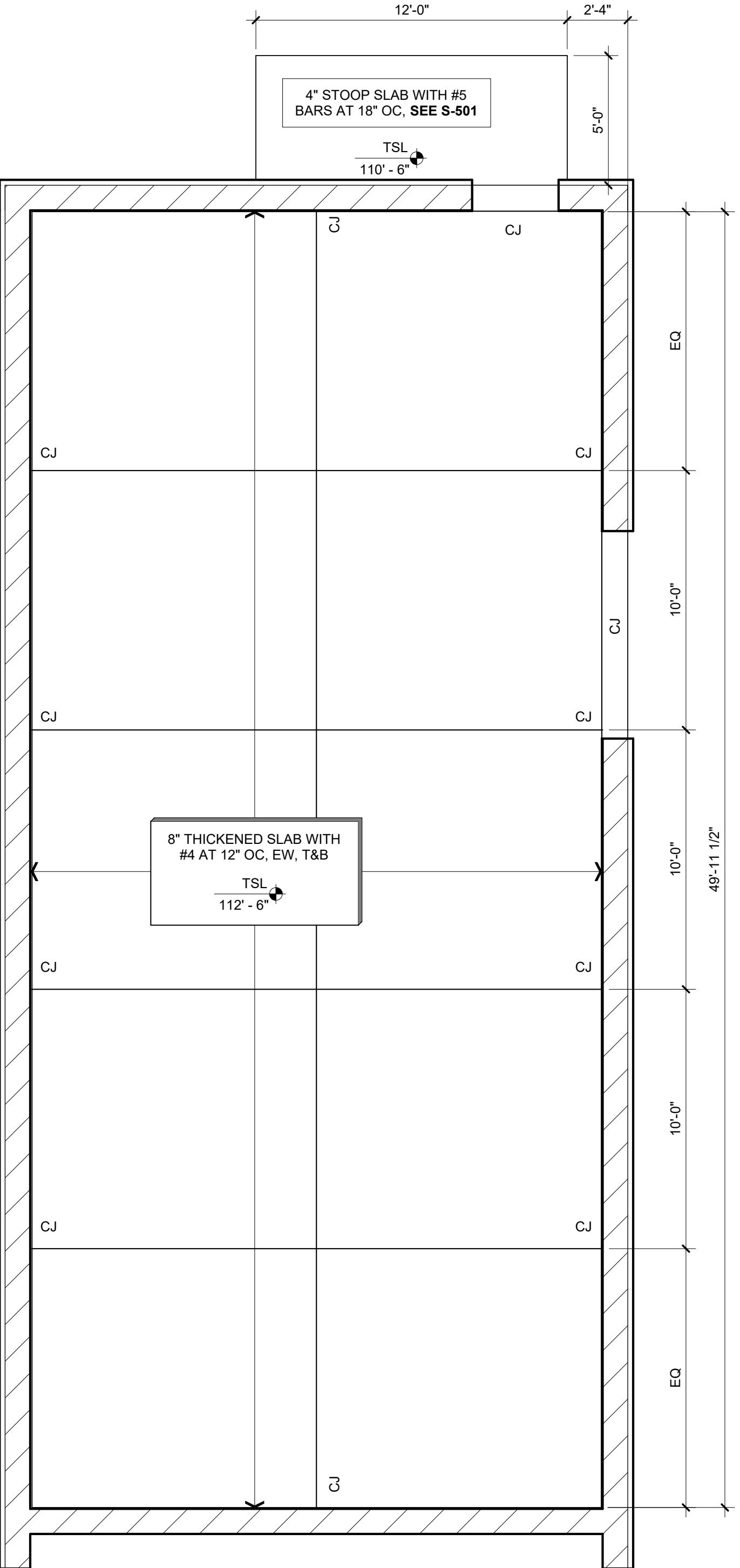
FOUNDATION,
FLATWORK AND ROOF
FRAMING PLANS

SHEET NO.:

AS-111F



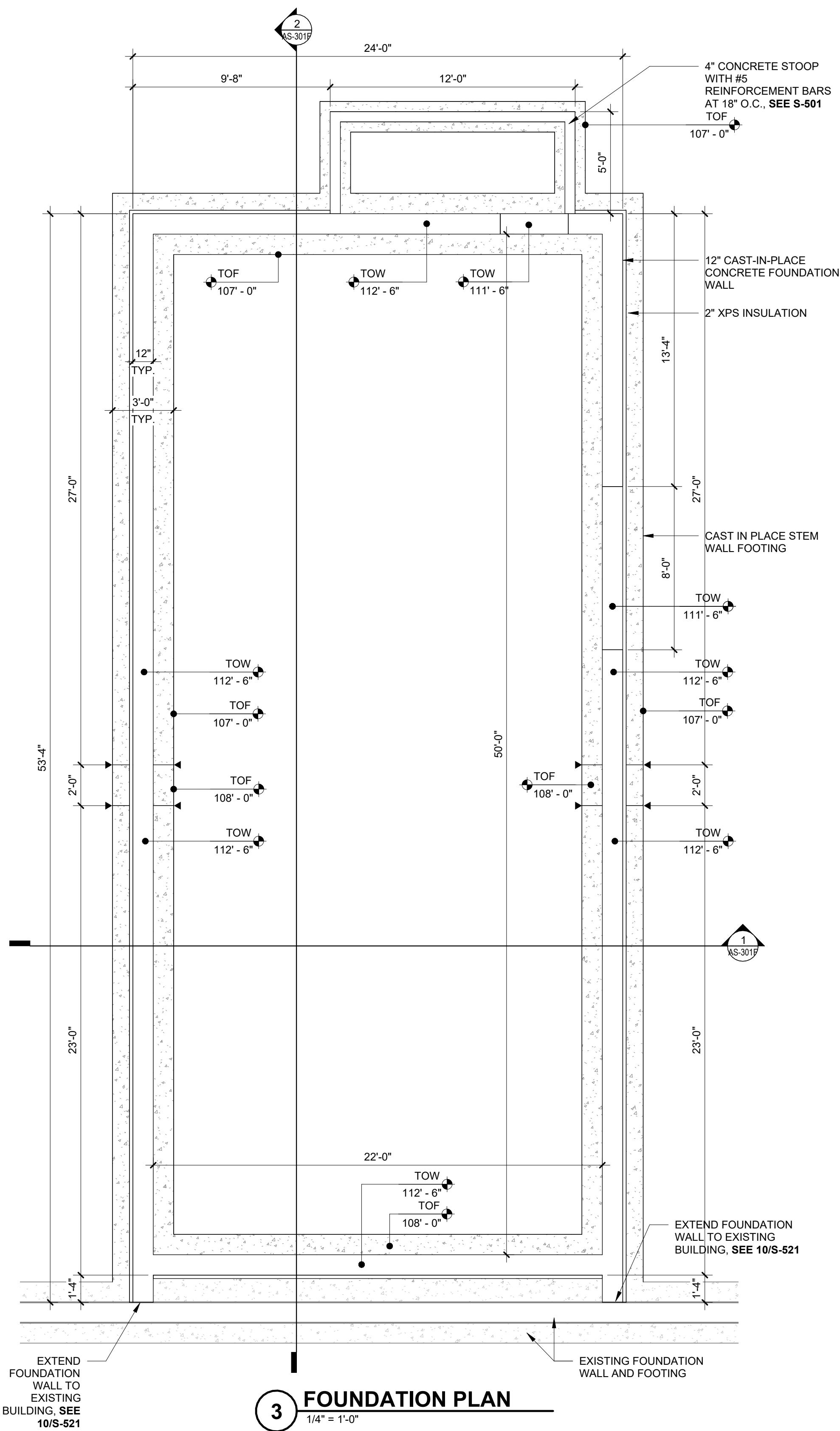
KEY PLAN



2 FLATWORK PLAN
1/4" = 1'-0"

GENERAL NOTES - FLATWORK PLAN

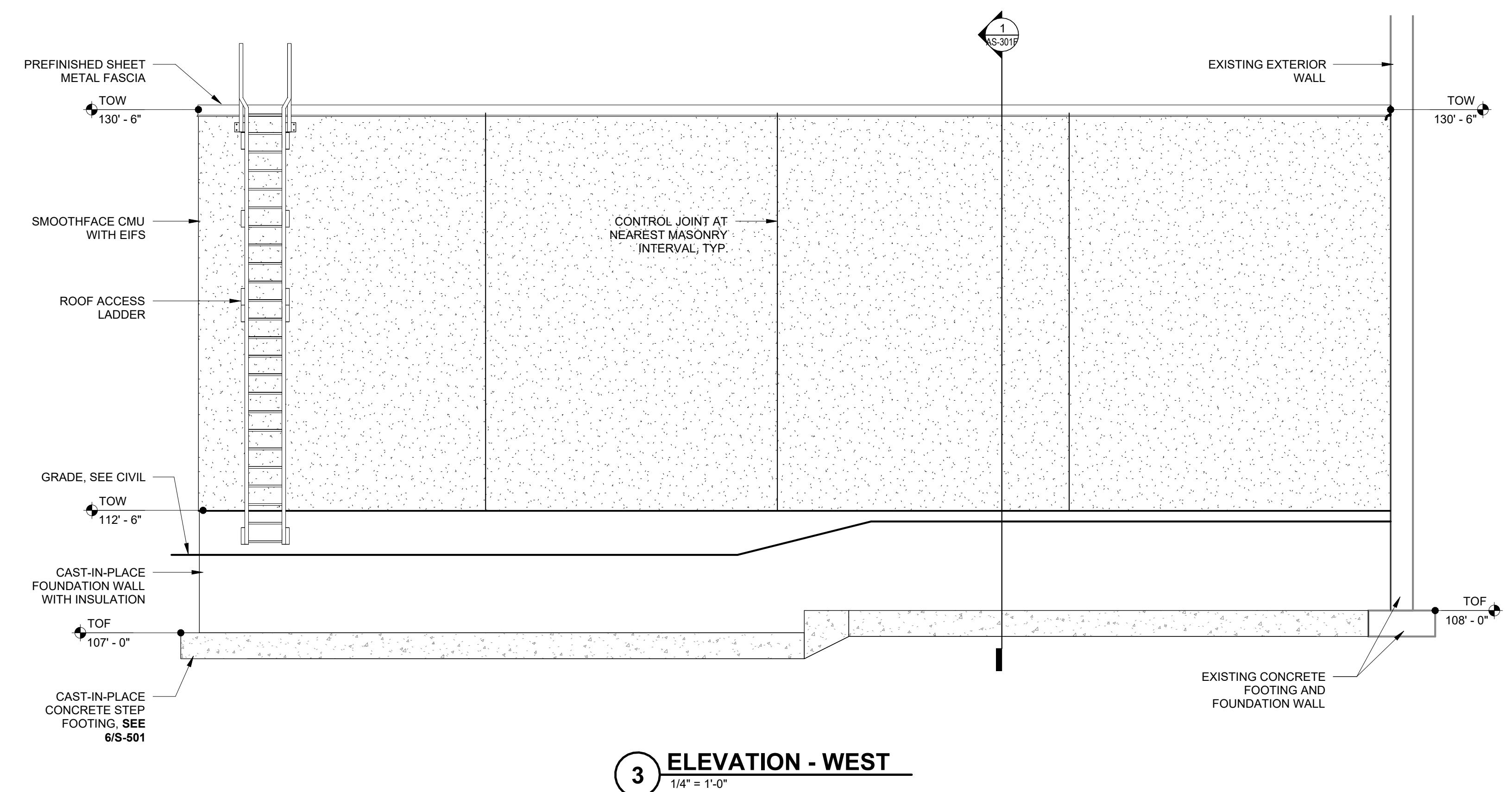
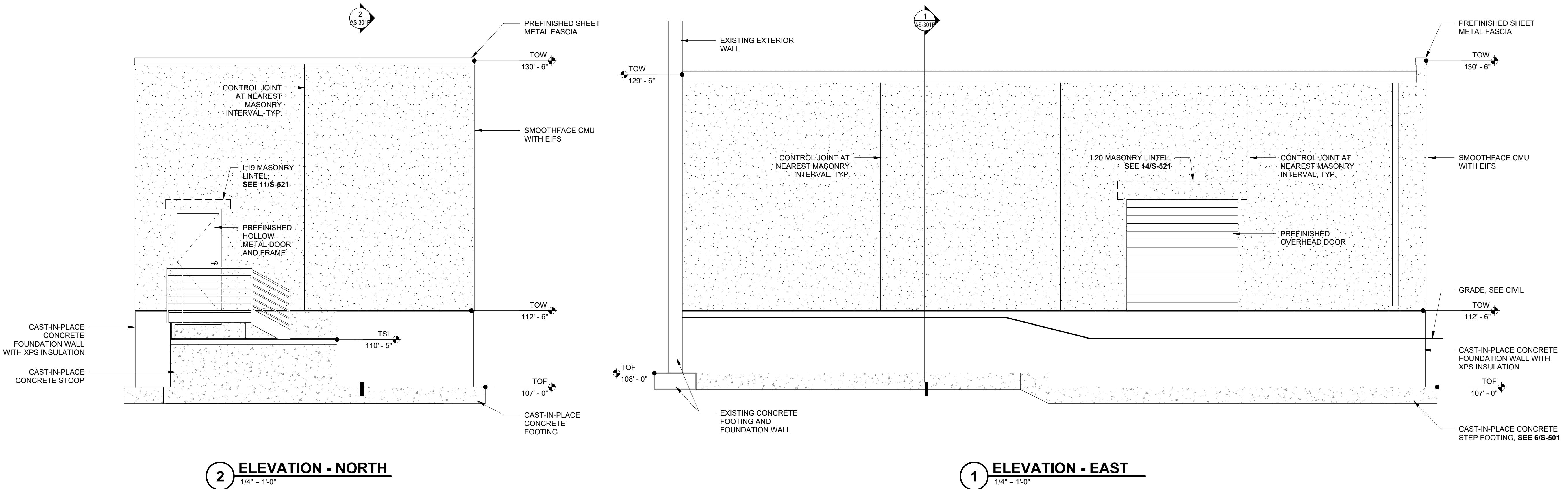
- 1 SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON SITE PLAN 162'-0" = 100'-0" ON ARCHITECTURAL DRAWINGS.
- 2 FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- 3 ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE CONTRACT DOCUMENTS AND THE SPECIFICATIONS ON S-001.
- 4 ALL INTERIOR AND EXTERIOR DIMENSIONS ARE FROM FINISH FACE OF WALLS, UNLESS NOTED OTHERWISE.
- 5 REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLS.
- 6 REFER TO SHEET S-501 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- 7 REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- 8 FLOAT AND TROWEL FLOOR SLABS PER REQUIREMENTS OF FLOOR FINISH SYSTEM.
- 9 SEE 6/S-511 FOR EQUIPMENT PADS. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR.
- 10 SEE 9/S-511 FOR TYPICAL CONTROL JOINT DETAIL.

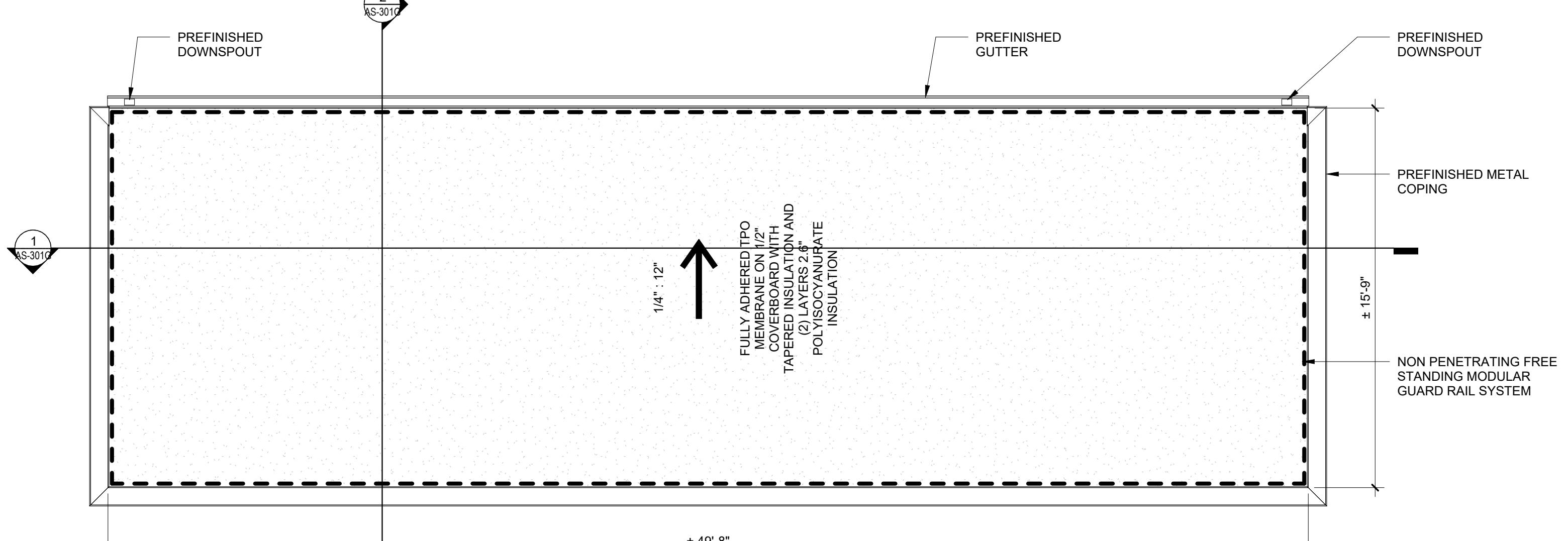
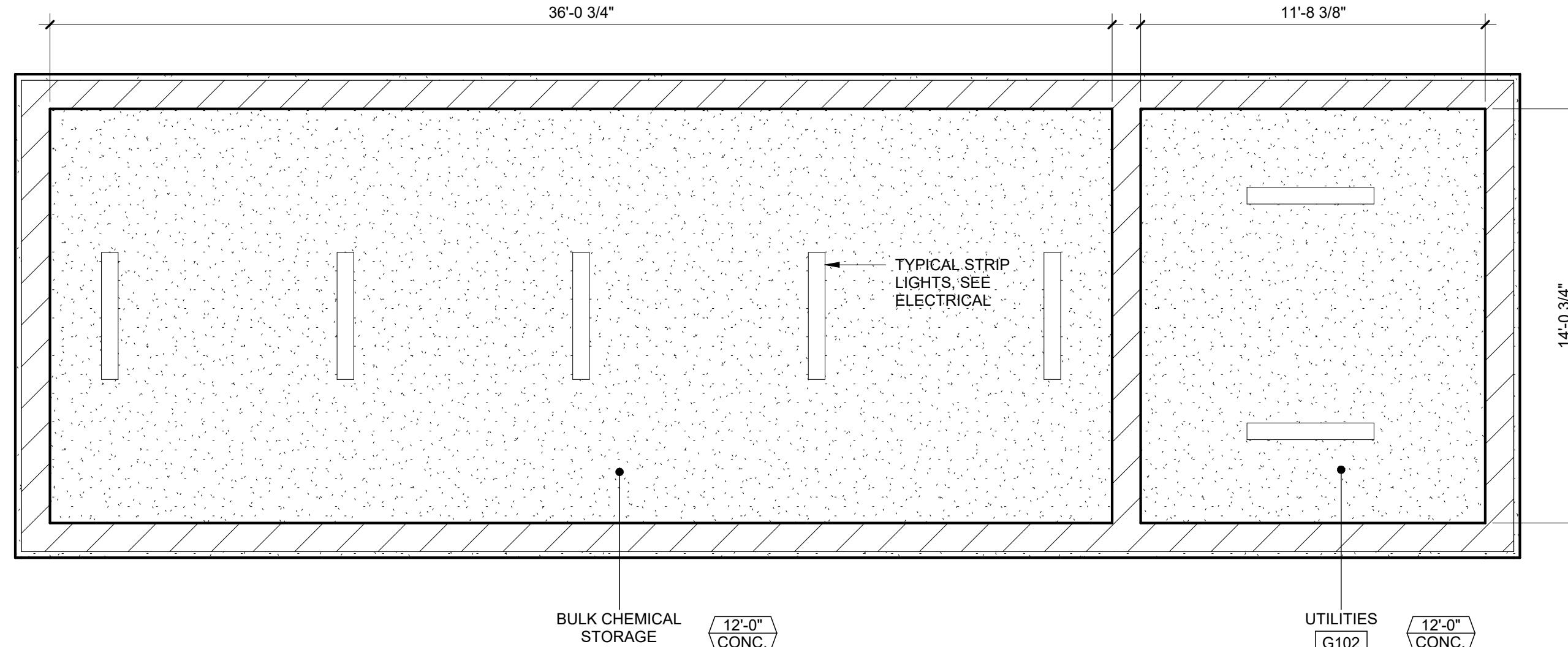
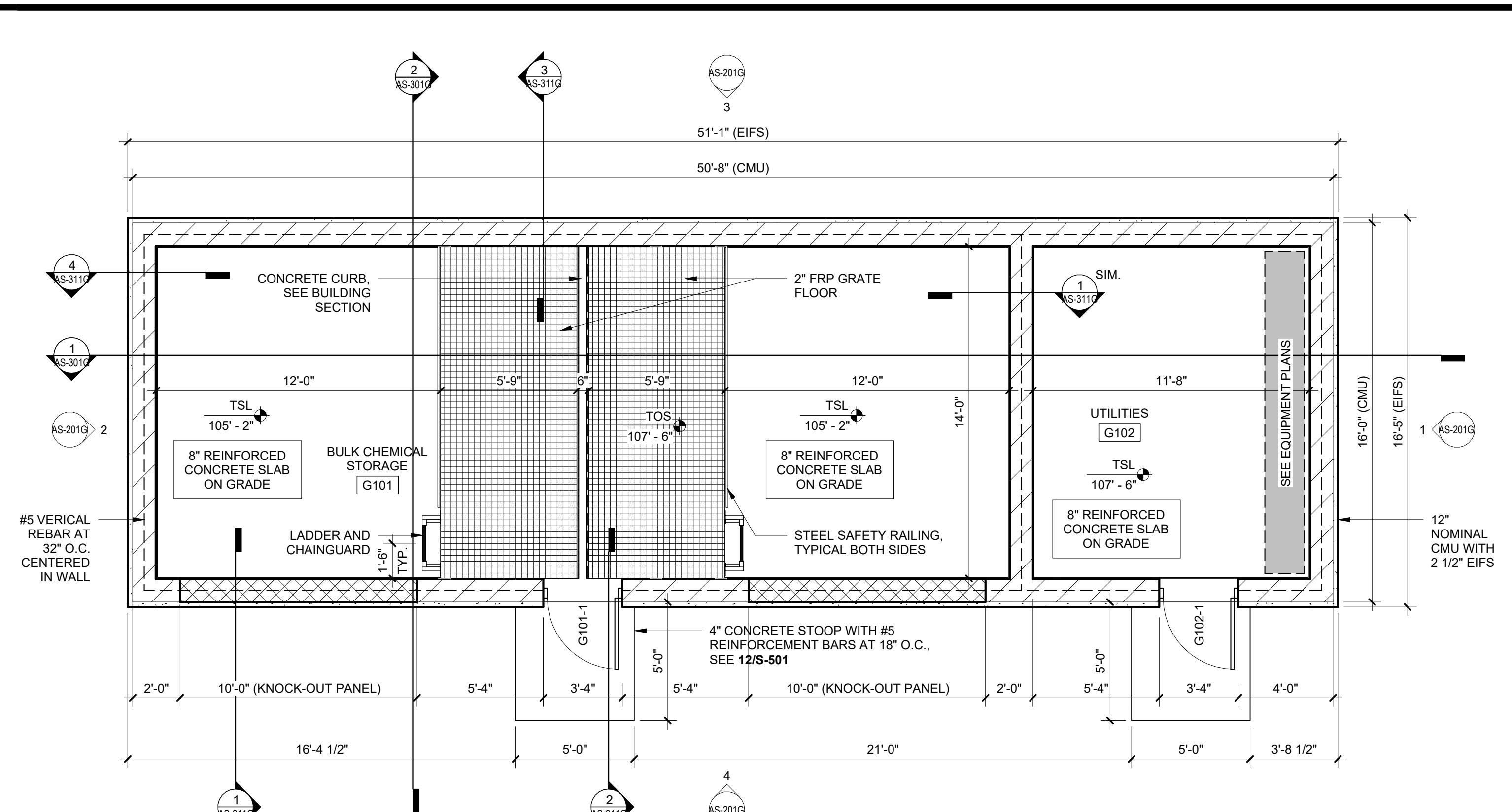


3 FOUNDATION PLAN
1/4" = 1'-0"

GENERAL NOTES - FOUNDATION PLAN

- 1 FLOAT AND TROWEL FLOOR SLABS PER REQUIREMENTS OF FLOOR FINISH SYSTEM.
- 2 NOT ALL FOUNDATION PENETRATIONS ARE SHOWN, REFER TO OTHER DISCIPLINE DRAWINGS FOR ADDITIONAL INFORMATION.
- 3 STRIP FOOTINGS SHALL BE CENTERED UNDER WALLS UNLESS NOTED OTHERWISE.
- 4 SOIL IMPROVEMENTS NOT REQUIRED AT DRY INGREDIENTS BLOWER BUILDING, PROVIDE ON SITE GEOTECHNICAL SERVICES DURING EXCAVATION TO VERIFY 2000 PSI MIN. BEARING CAPACITY OF NATIVE SOILS





GENERAL NOTES - FLOOR PLAN

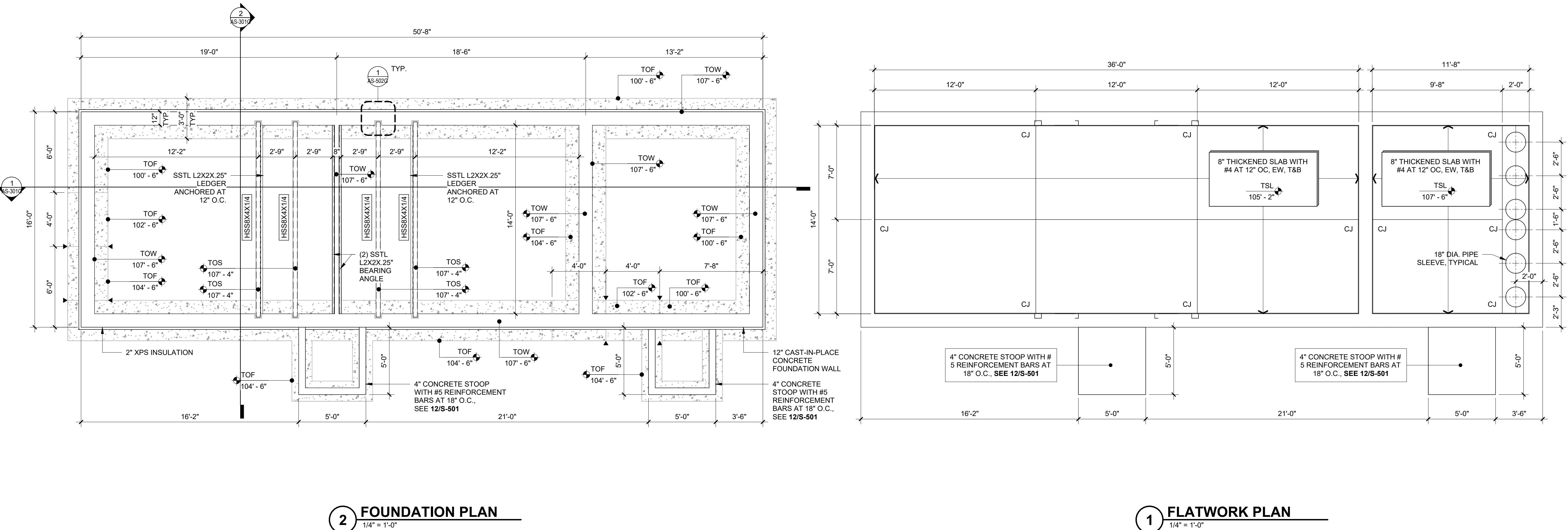
- 1 SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON SITE PLAN 162'-0" = 100'-0" ON ARCHITECTURAL DRAWINGS.
- 2 FIELD VERIFY DIMENSIONS, BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- 3 INTERIOR AND EXTERIOR DIMENSIONS ARE FROM FINISH FACE OF WALLS, UNLESS NOTED OTHERWISE.
- 4 REFERENCE SHEET SERIES G-011 FOR ALL CODE, FIRE RATING, AND SEPARATION REQUIREMENTS.
- 5 COORDINATE INSTALLATION OF OWNER-SUPPLIED EQUIPMENT. REFERENCE PLANS, SPECS, AND INTERIOR ELEVATIONS FOR SPECIFIC EQUIPMENT AND ITS INSTALLATION REQUIREMENTS.
- 6 SEE ENLARGED PLANS FOR NOTES, DIMENSIONS, AND WALL TYPES WITHIN THE DETAIL CALLOUT BOUNDARIES.
- 7 FINISHED FLOOR ELEVATION 169.00' GLOBAL OR 107'-0" LOCAL.
- 8 SEE S-521 FOR MASONRY WALL STANDARD DETAILS.

GENERAL NOTES - CEILING PLAN

- 1 SEE ROOM FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES.
- 2 CENTER LIGHTS, SPRINKLERS, FIRE DETECTION EQUIPMENT, OCCUPANCY SENSORS OR OTHER CEILING EQUIPMENT OR APPURTENANCES IN ACOUSTICAL PANELS, GYPSUM BOARD SOFFITS, AND BETWEEN OTHER CEILING MOUNTED FIXTURES.
- 3 REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR FIXTURE TYPES AND COMPLETE CONSTRUCTION REQUIREMENTS.
- 4 EXPOSED, UNFINISHED STRUCTURE, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION AND TECHNOLOGY SYSTEMS TO BE PAINTED TO MATCH CEILING.

GENERAL NOTES - ROOF PLAN

- 1 ROOF INSULATION TO BE A MINIMUM OF (2) LAYERS 2.6" POLYISO, UNLESS NOTED OTHERWISE.
- 2 PROVIDE MIN. 1/4" PER FOOT AT TAPERED ROOF INSULATION LOCATION UNLESS NOTED OTHERWISE.
- 3 SEE MECHANICAL, PLUMBING, TECHNOLOGY, AND ELECTRICAL DRAWINGS FOR ADDITIONAL ROOF PENETRATIONS NOT SHOWN.
- 4 SEE S-001 FOR ROOF LOADING REQUIREMENTS.

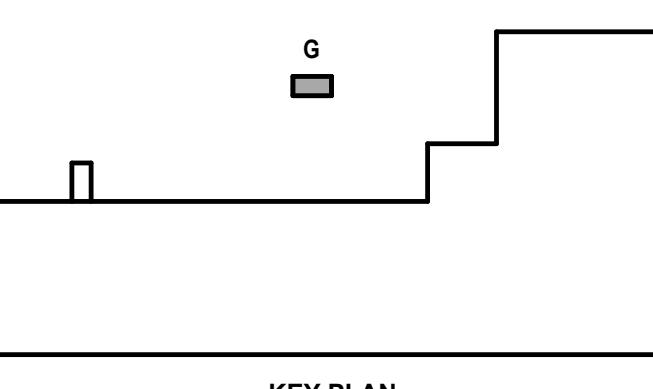
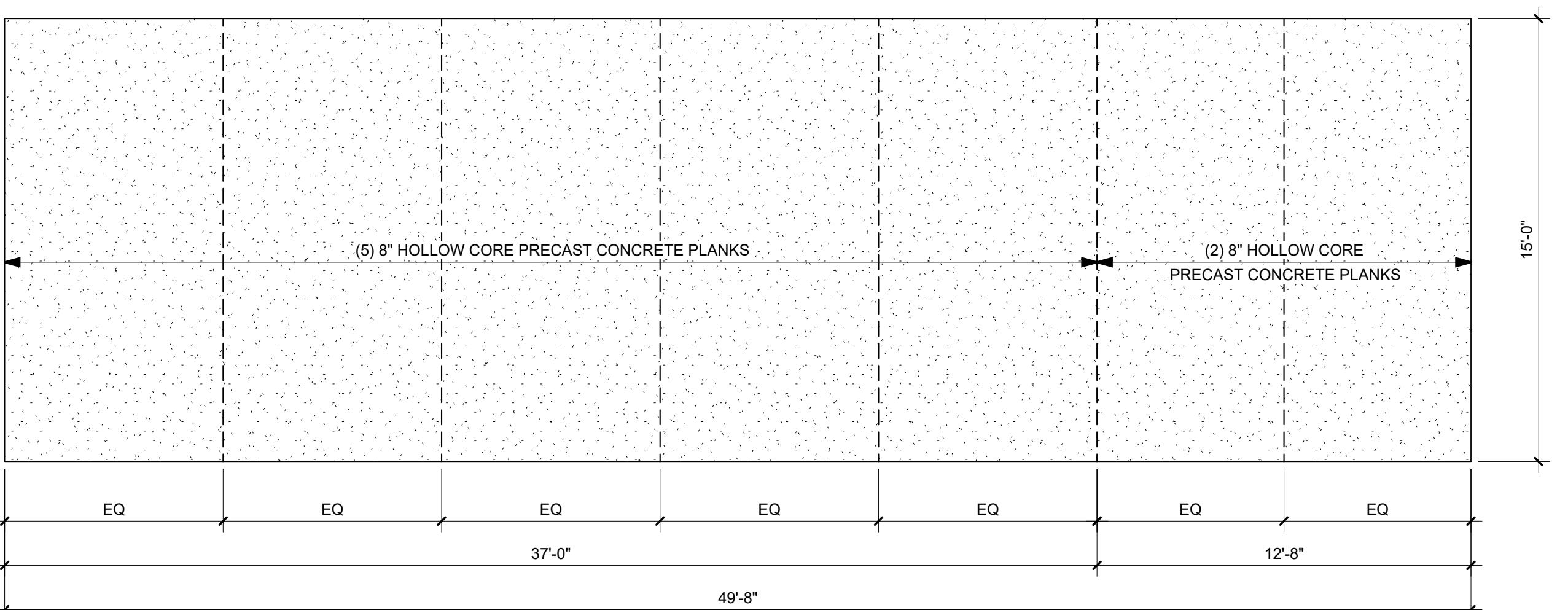


GENERAL NOTES - FOUNDATION PLAN

- 1 FLOAT AND TROWEL FLOOR SLABS PER REQUIREMENTS OF FLOOR FINISH SYSTEM.
- 2 NOT ALL FOUNDATION PENETRATIONS ARE SHOWN, REFER TO OTHER DISCIPLINE DRAWINGS FOR ADDITIONAL INFORMATION.
- 3 STRIP FOOTINGS SHALL BE CENTERED UNDER WALLS UNLESS NOTED OTHERWISE.
- 4 NATIVE SOILS AT SITE ARE NOT SUITABLE FOR USE OF SHALLOW SPREAD FOOTING FOUNDATIONS (SEE CGC INC. GEOTECHNICAL INVESTIGATION CONDUCTED MAY 24, 2023). THE DESIGN SHOWN ASSUMES SOILS IMPROVEMENT WILL BE PERFORMED BY CONTRACTOR TO ATTAIN MINIMUM ALLOWABLE BEARING PRESSURE OF 1500 PSF UNDER FOOTINGS AND 1500 PSF UNDER SLABS ON GRADE.

GENERAL NOTES - FLATWORK PLAN

- 1 SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON SITE PLAN 162'-0" = 100'-0" ON ARCHITECTURAL DRAWINGS.
- 2 FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- 3 ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE CONTRACT DOCUMENTS AND THE SPECIFICATIONS ON S-001.
- 4 ALL INTERIOR AND EXTERIOR DIMENSIONS ARE FROM FINISH FACE OF WALLS, UNLESS NOTED OTHERWISE.
- 5 REFER TO SHEET S-501 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLS.
- 6 REFER TO SHEET S-501 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- 7 REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- 8 FLOAT AND TROWEL FLOOR SLABS PER REQUIREMENTS OF FLOOR FINISH SYSTEM.



FOUNDATION,
FLATWORK AND ROOF
FRAMING PLANS

SHEET NO.: AS-111G

SHEET CONTENTS

M&H NO.: 466672-222049.01
DATE: 2/16/24
DESIGNED BY: REK
DRAWN BY: JTR
CHECKED BY: LW
DO NOT SCALE DRAWINGS

© Copyright 2024
This document or any portion thereof shall
not be duplicated, disclosed, or used on any
other project or extension of this project
except by written agreement with Mead &
Hunt, Inc. Mead & Hunt, Inc. is not
responsible for any unauthorized use of, or
alteration to these documents.

Chr Hansen Inc.
www.chr-hansen.com

CHR HANSEN PROJECT THOR

CHR HANSEN

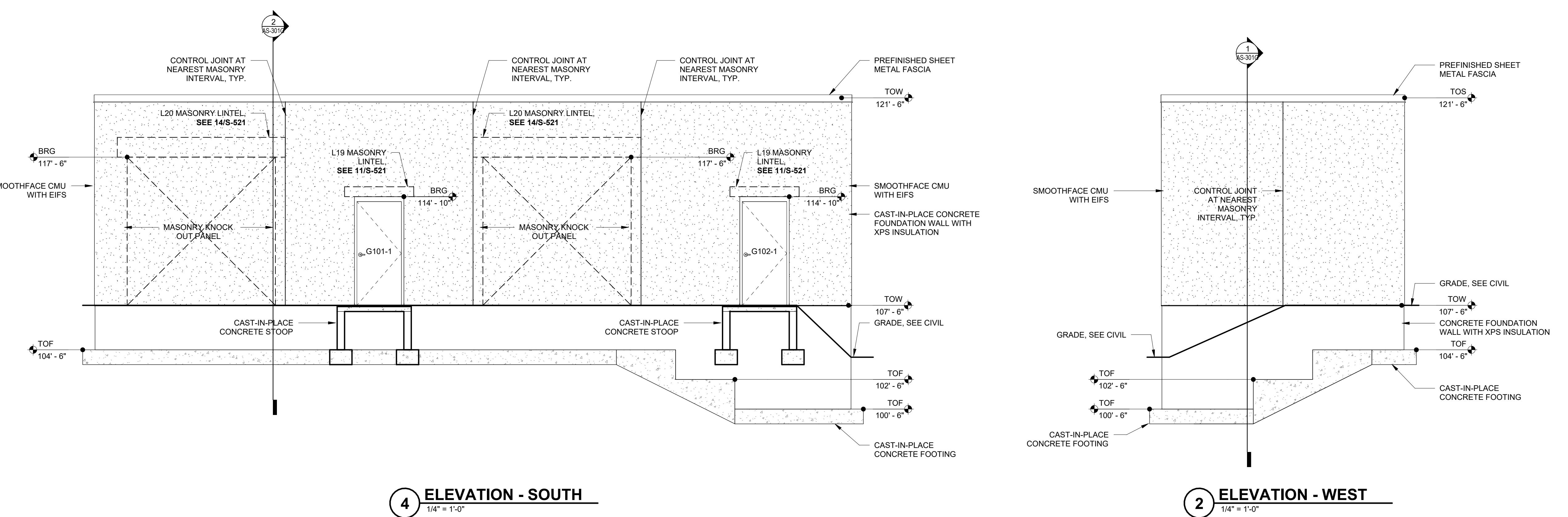
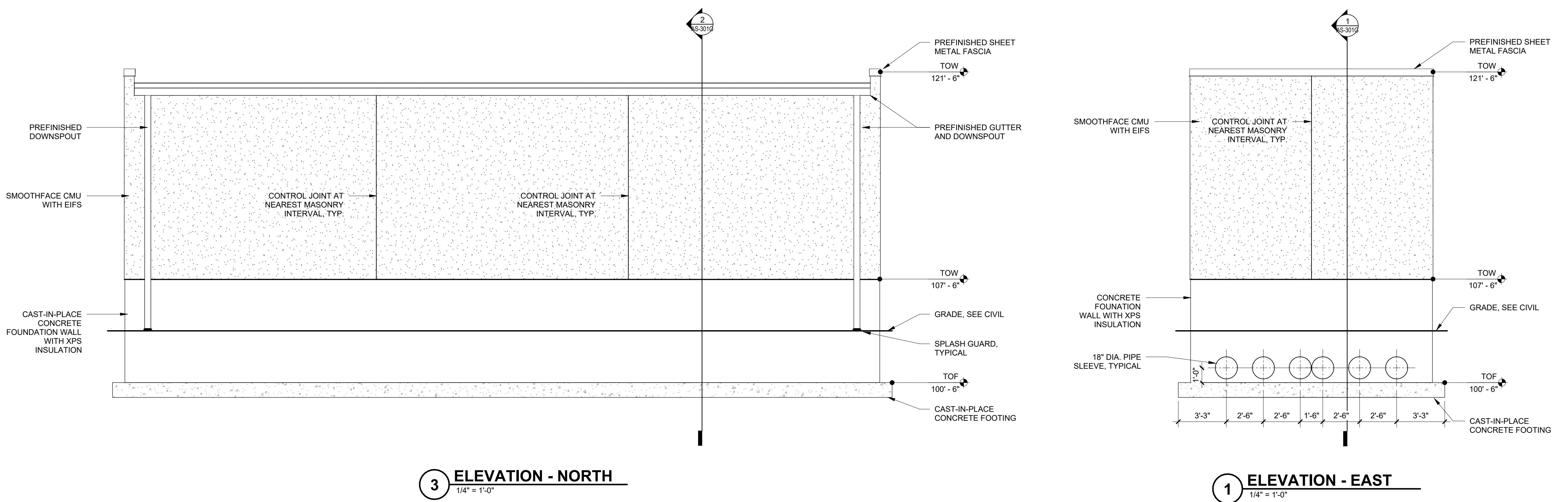
ISSUED
1 2/16/24 PERMIT ISSUE

M&H NO.: 466672-222049.01
DATE: 2/16/24
DESIGNED BY: REK
DRAWN BY: JTR
CHECKED BY: LW
DO NOT SCALE DRAWINGS
SHEET CONTENTS

EXTERIOR ELEVATIONS

SHEET NO.:

AS-201G



GENERAL NOTES:

1. REFER TO "EP" SHEETS FOR ALL PROCESS ELECTRICAL WORK.

KEYED NOTES

- 9.219 REFER TO SHEET E-050 FOR ELEVATION AND QUANTITY.
- 9.220 REFER TO SHEET E-051 FOR ELEVATION AND QUANTITY.
- 9.221 CONNECT EMERGENCY EXTERIOR LIGHTING TO GENERATOR POWER FROM FREEZER PROJECT EXISTING PANEL AS IDENTIFIED. PANEL IS LOCATED IN ROOM F016.
- 9.222 MOUNT PHOTOCELL AT 17'-0" AFG. FURNISH AND INSTALL AUTOMATIC POWER TRANSFER UL924 DEVICE. SEE SHEET E-421A FOR POWER TRANSFER UL924 DEVICE ON INTERIOR OF BUILDING FOR EXTERIOR EMERGENCY LIGHTING.

© Copyright 2023
This document and any portion thereof shall
not be reproduced, disclosed, or used on any
other project or extension of this project
except by written agreement with Mead &
Hunt, Inc. Mead & Hunt and its employees
are responsible for any unauthorized use of, or
alteration to these documents.

Chr Hansen Inc.
9015 W. Maple West Allis, WI 53214
www.chr-hansen.com

CHR HANSEN PROJECT THOR

CHR HANSEN

ISSUED
1 2/16/24 PERMIT SET

M&H NO.: 4666672-222049.01
DATE: FEB 16, 2024
DESIGNED BY: ZMD
DRAWN BY: ZMD
CHECKED BY: ARG
DO NOT SCALE DRAWINGS

SHEET CONTENTS

ELECTRICAL SITE
PLAN

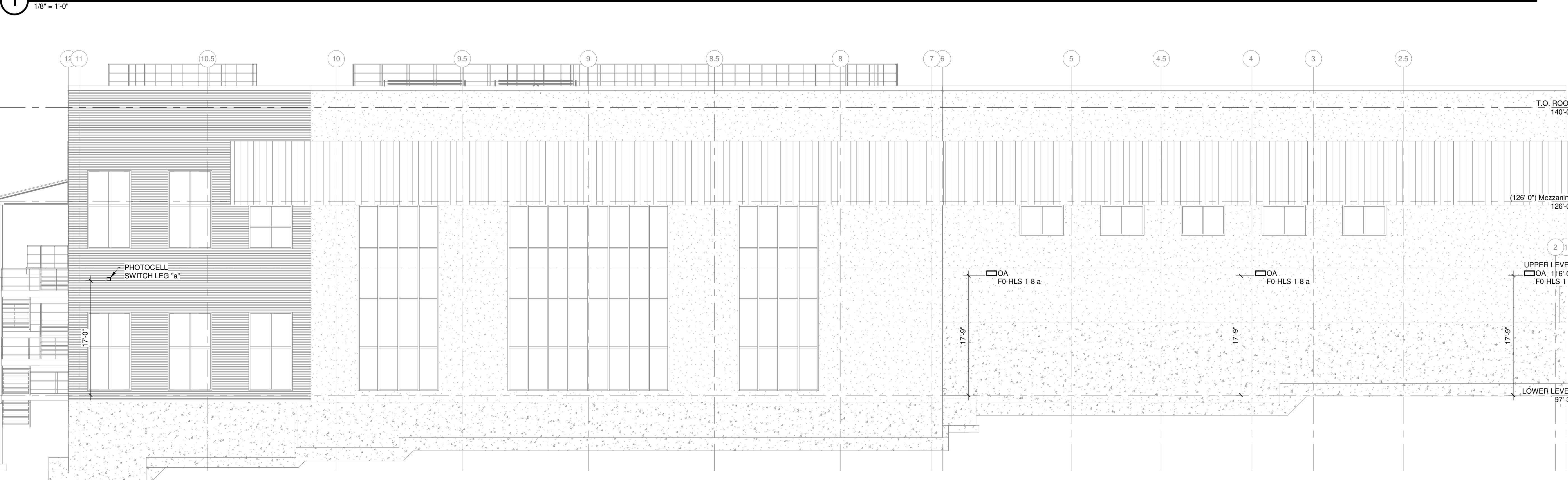
SHEET NO. _____

E-011

© Copyright 2023
This document and any portion thereof shall
not be copied, disclosed, or used on any
other project or extension of this project
except by written agreement with Mead &
Hunt, Inc. Mead & Hunt and its employees
are responsible for any unauthorized use of, or
alteration to these documents.



1 EXTERIOR LIGHTING ELEVATIONS - EAST



2 EXTERIOR LIGHTING ELEVATIONS - NORTH



Chr Hansen Inc.
9015 W. Maple West Allis, WI 53214
www.chr-hansen.com

**CHR HANSEN
PROJECT THOR**

ISSUED
1 2/16/24 PERMIT SET

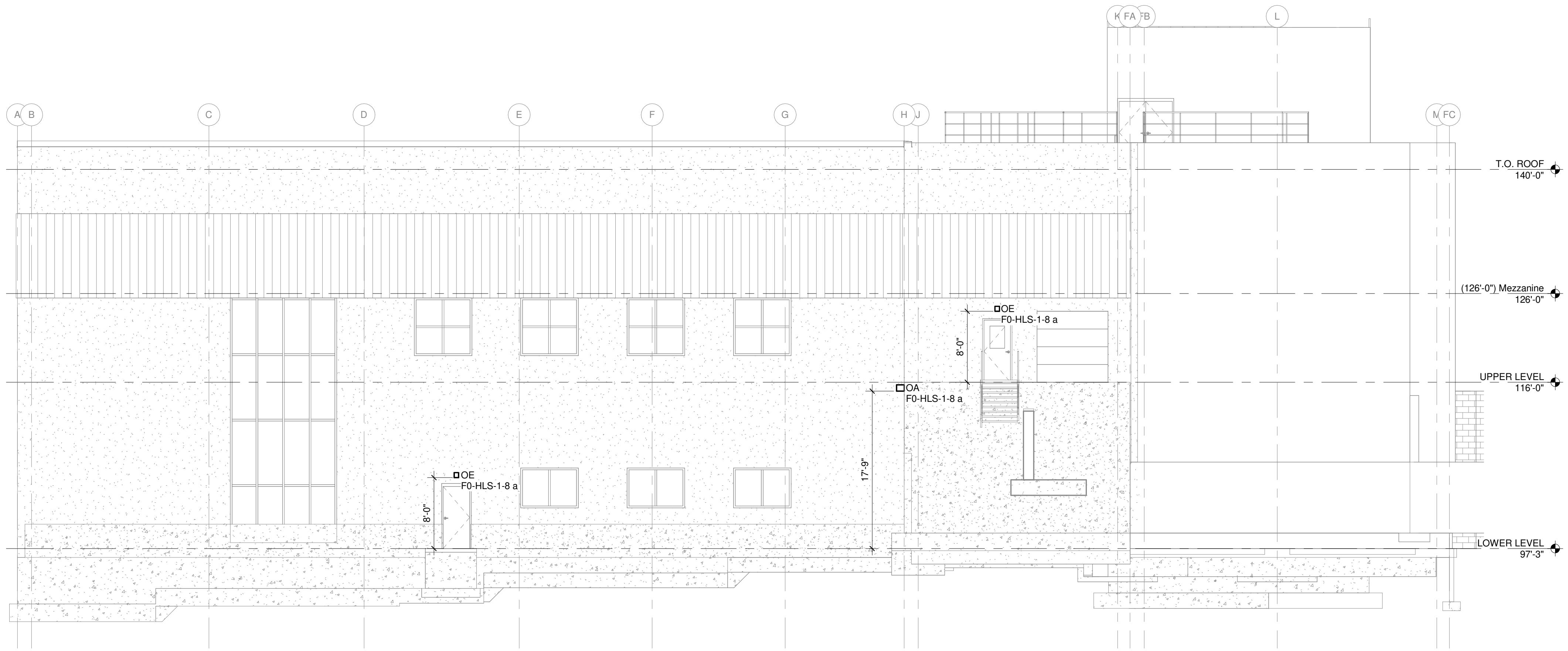
M&H NO.: 4666672-222049.01
DATE: FEB 16, 2024
DESIGNED BY: ZMD
DRAWN BY: ZMD
CHECKED BY: ARG
DO NOT SCALE DRAWINGS

SHEET CONTENTS

ELECTRICAL
EXTERIOR LIGHTING
ELEVATIONS

SHEET NO.:

E-050



1 EXTERIOR LIGHTING ELEVATIONS - WEST

1/8" = 1'-0"

**CHR HANSEN
PROJECT THOR**

Chr Hansen Inc.
9015 W. Maple West Allis, WI 53214
www.chr-hansen.com

CHR HANSEN

ISSUED

1 2/16/24 PERMIT SET

M&H NO.: 466672-222049.01
DATE: FEB 16, 2024
DESIGNED BY: ZMD
DRAWN BY: ZMD
CHECKED BY: ARG
DO NOT SCALE DRAWINGS

SHEET CONTENTS

ELECTRICAL
EXTERIOR LIGHTING
ELEVATIONS

SHEET NO.:

E-051