

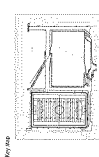
No.	Description	Date
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DRAWING ISSUE & REVISION HISTORY

04/19/2024

ISSUE FOR PERMIT

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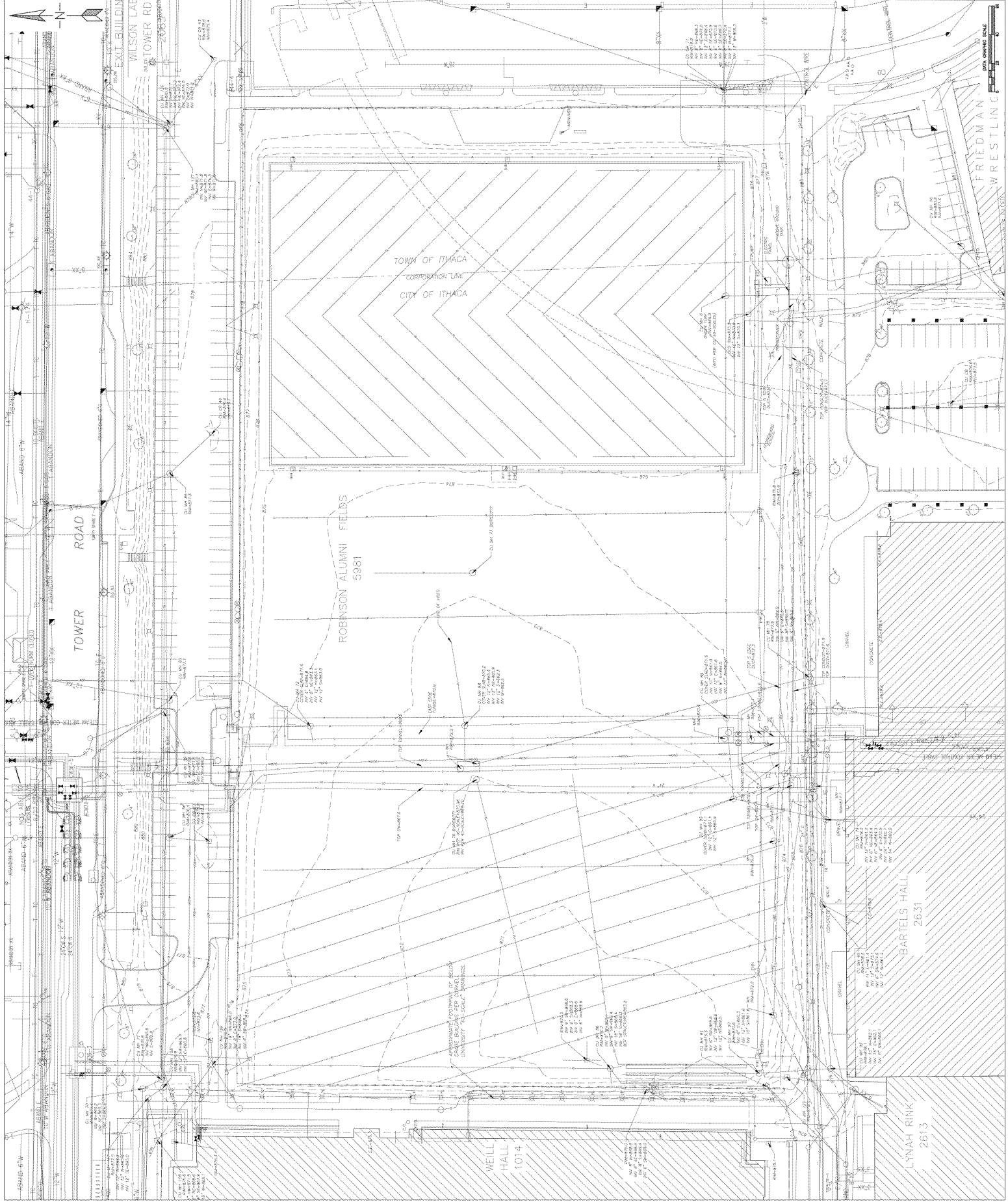
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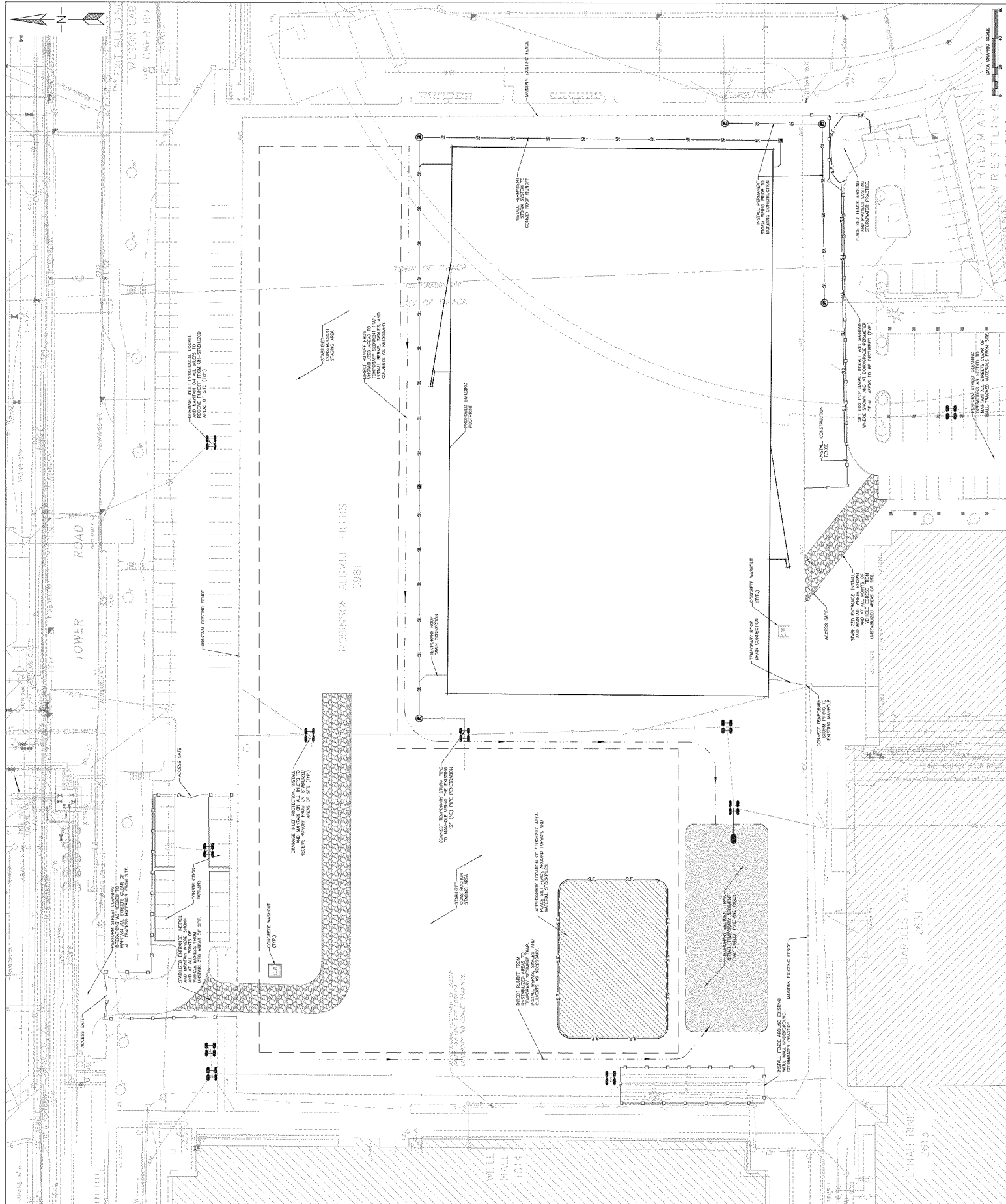
Cornell University
 Indoor Sports and Recreation
 Center & Multi-Purpose Field
 Tower Road
 Ithaca, NY 14853

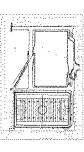
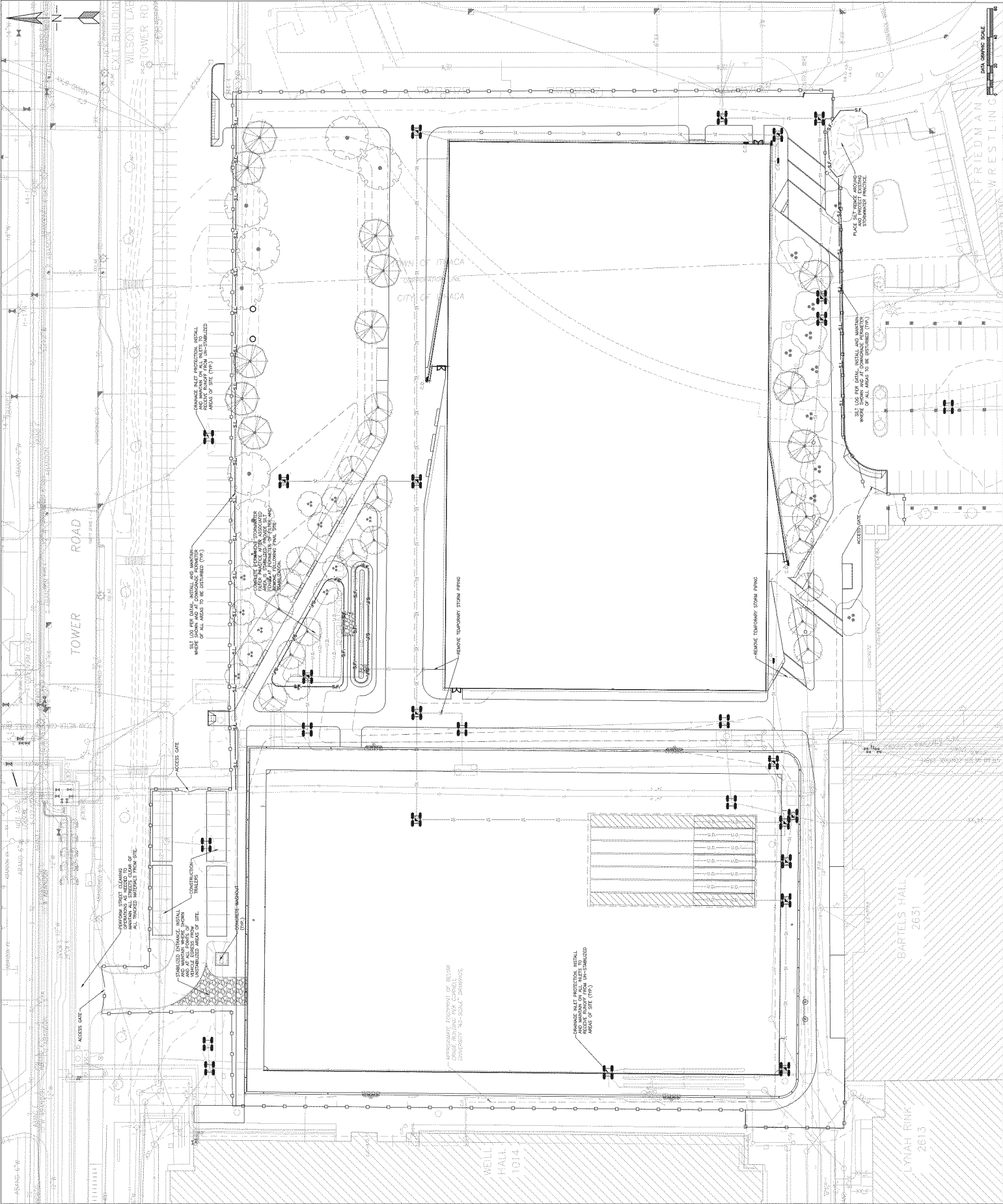
EXISTING
 CONDITIONS
 PLAN

Drawn By: JRM
 Checked By: JRM
 Approved By: JRM
 Date: 04/17/2024

Sheet No. C101







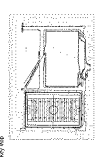
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DRAWING ISSUE & REVISION HISTORY

04/19/2024

ISSUE FOR PERMIT

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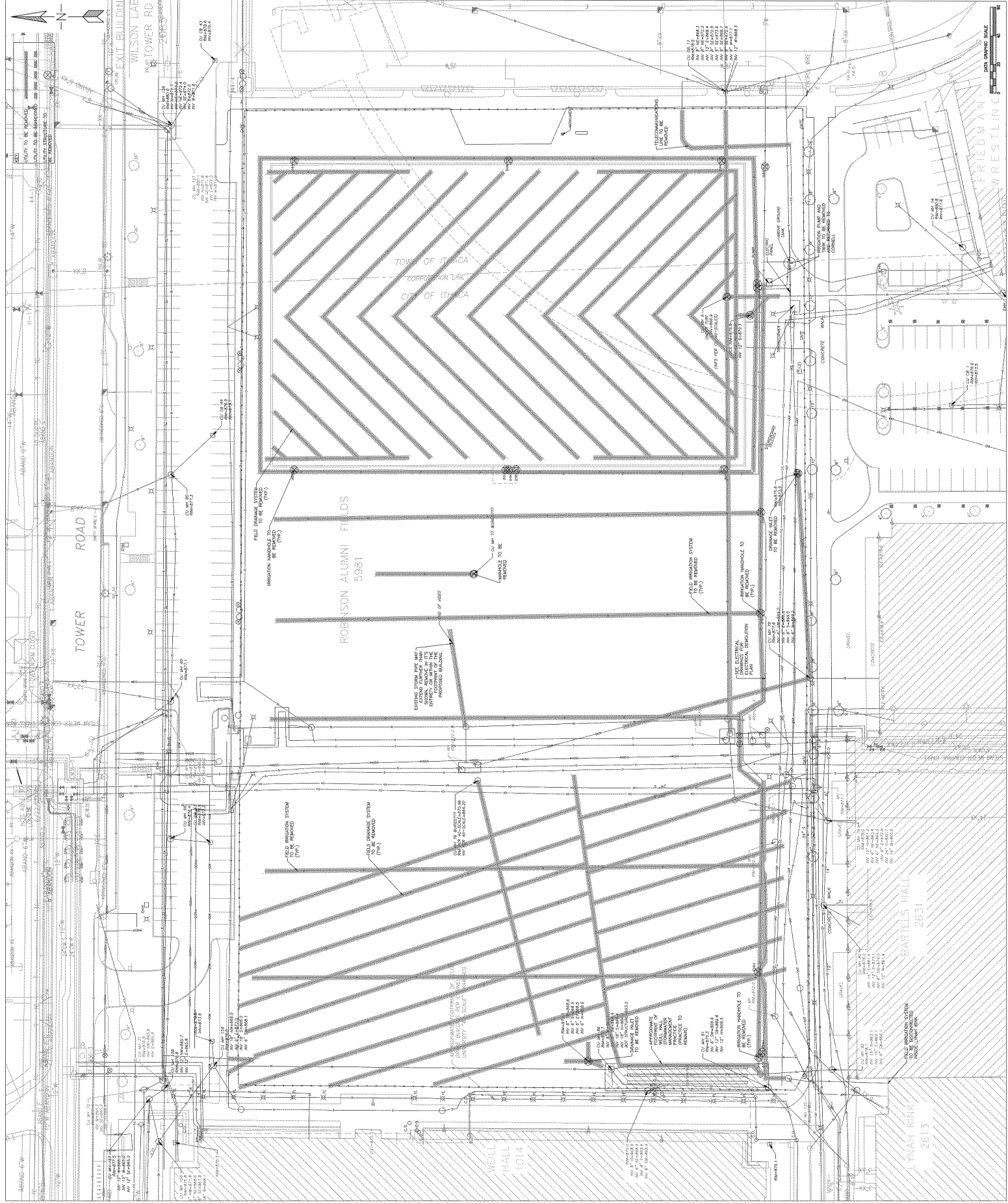
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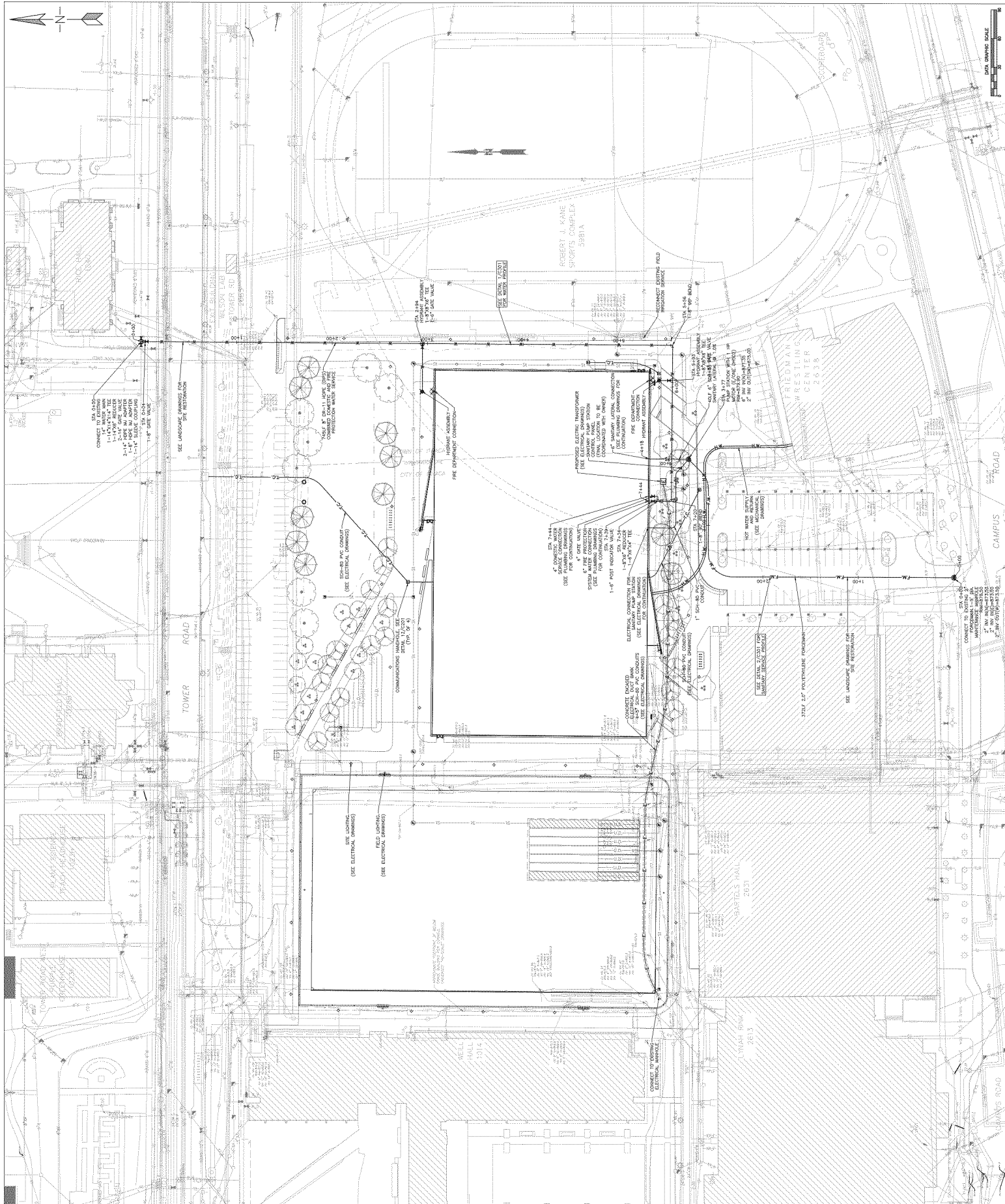
Cornell University
 Indoor Sports and Recreation
 Center & Multi-Purpose Field
 Tower Road
 Ithaca, NY 14853

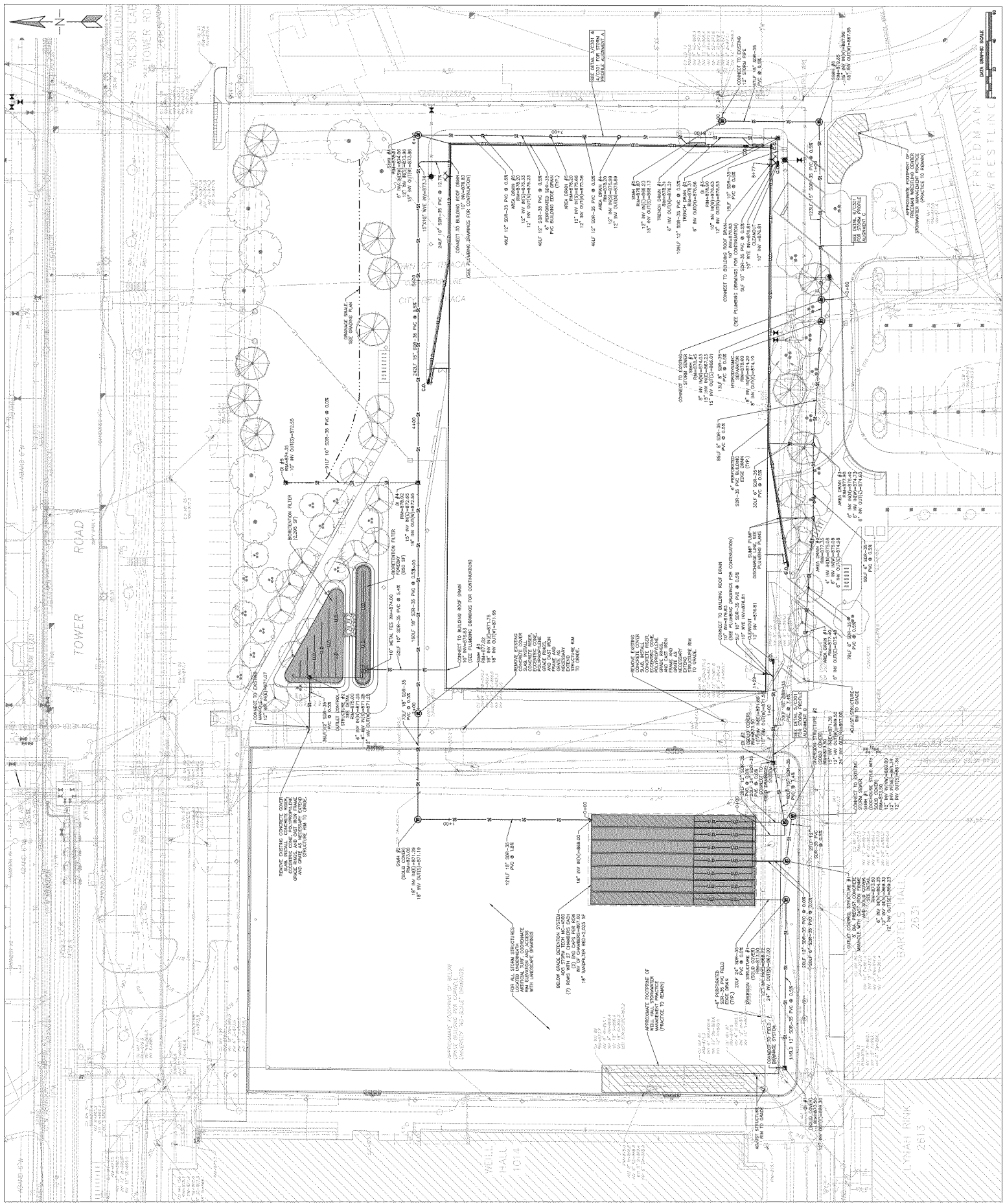
UTILITY DEMOLITION PLAN

Drawn By: JMM
 Checked By: JMM
 Project No.: 1333
 Date: 04/19/2024

Sheet No. C103

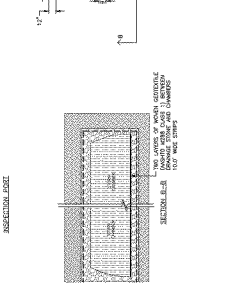
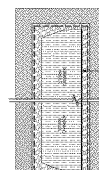
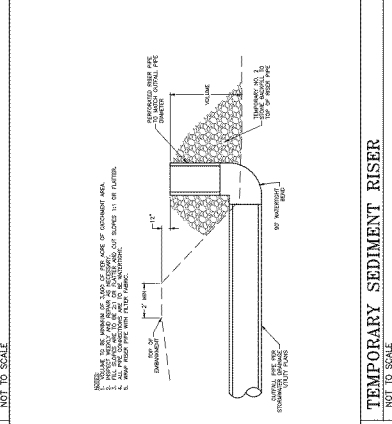
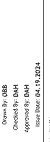


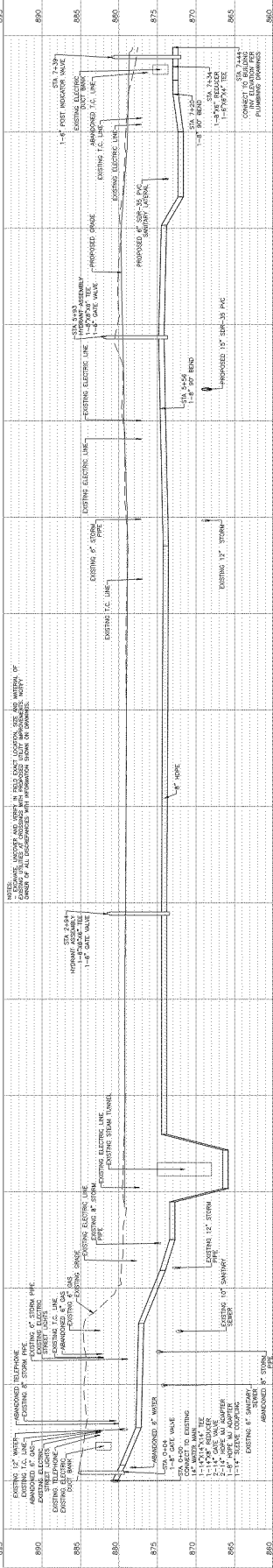




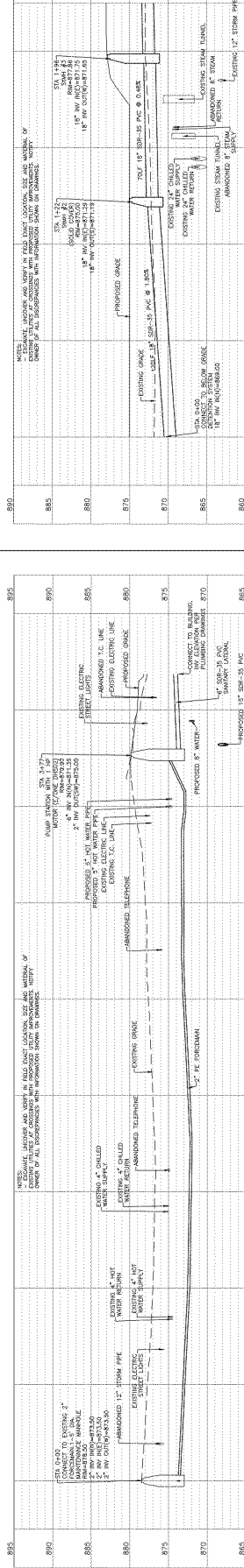
DATA DRAWING SCALE

C105

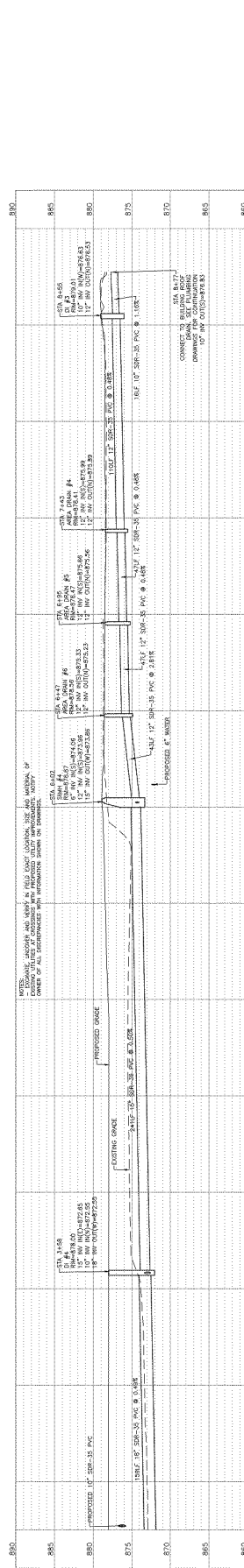




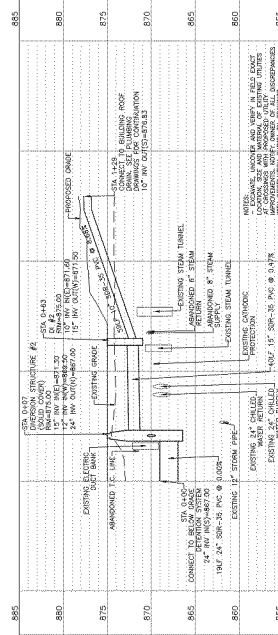
1 WATER PROFILE
SCALE 1"=20' HORIZ. 1"=5' VERT



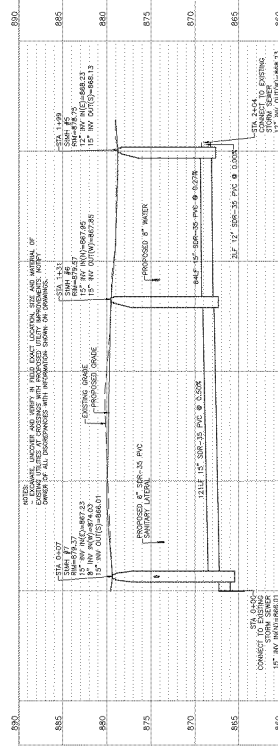
2 SEWER PROFILE
SCALE 1"=20' HORIZ. 1"=5' VERT



4 STORM PROFILE ALIGNMENT A - STA 2+25 TO STA 9+00
SCALE 1"=20' HORIZ. 1"=5' VERT



5 STORM PROFILE ALIGNMENT B
SCALE 1"=20' HORIZ. 1"=5' VERT



6 STORM PROFILE ALIGNMENT C
SCALE 1"=20' HORIZ. 1"=5' VERT

No.	Description	Note
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DRAWING DATE & REVISION HISTORY

04/19/2024

ISSUE FOR PERMIT

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Scale: 1" = 20'

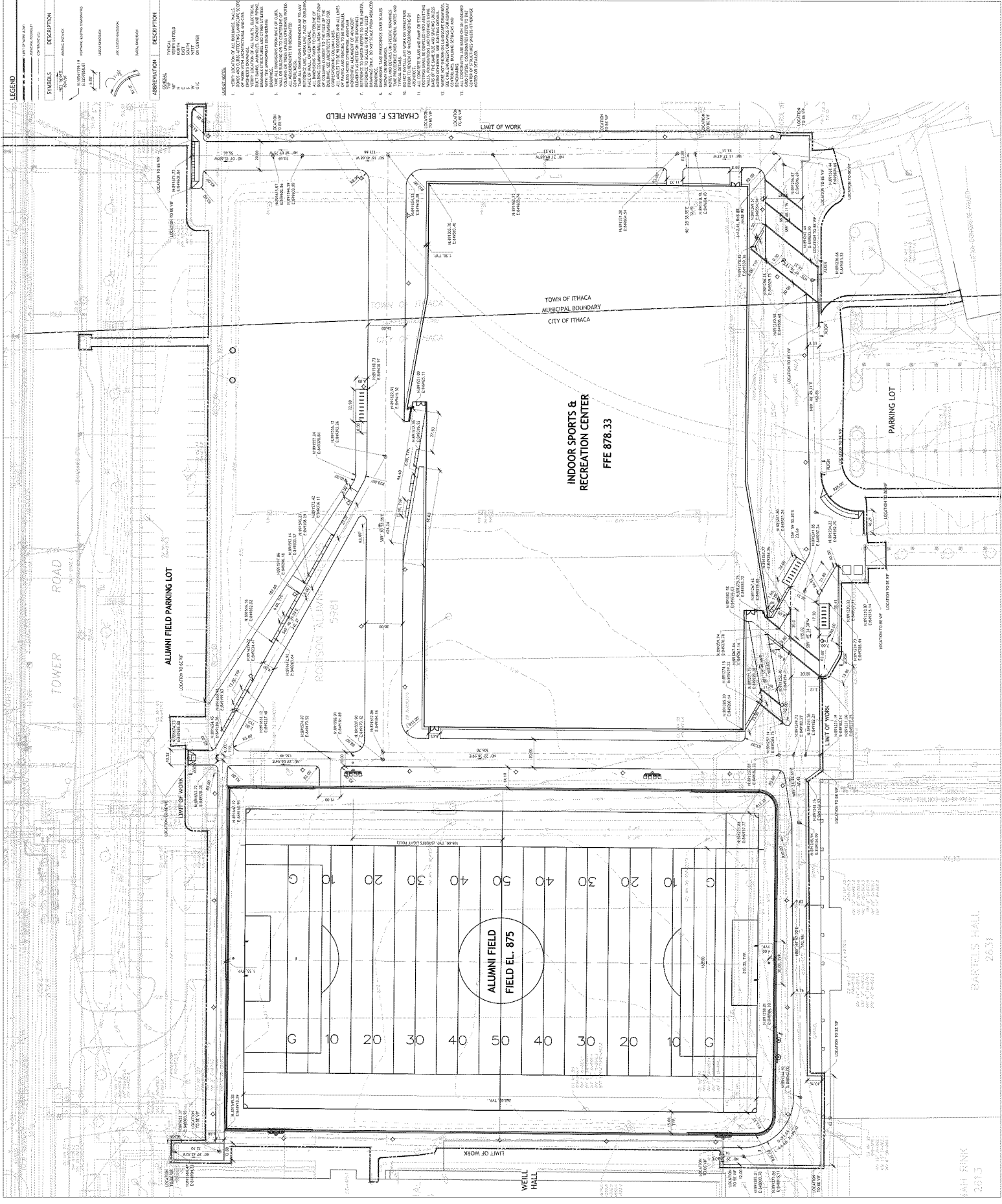
Project Title
Cornell University
Indoor Sports and Recreation
Center & Multi-Purpose Field
Tower Road
Ithaca, NY 14853

Utility Profiles

Drawn By: JLM
Checked By: JLM
Project Date: 04/19/2024

Sheet No. C301







NUP: LOW NOW NATIVE UPLAND SPECIES MIX					COMMON NAME	NOTES
COMA ON	COMP. %	BOTANICAL NAME				
A7	3%	Asclepias tuberosa			Butterfly Milkweed	Flowering Perennial
AL	2%	Aster laevis			Aster	Flowering Perennial
BC	10%	Scutellaria verticillata			Solomon's Grinnia	Native Grass
CL	3%	Coreopsis lanceolata			Lanceollet Coreopsis	Flowering Perennial
EV	15%	Elymus virginicus			Virginia Wildrye	Native Grass
HH	3%	Helopsis helianthoides			Woodland Sunflower	Flowering Perennial
PT	8%	Parthenium integrifolium			Narrowleaved Mountainmint	Flowering Perennial
IR	3%	Baccharis larica			Black-eyed Susan	Flowering Perennial
SS	60%	Scirpocyrtium scoparium			Little Bluestem	Native Grass
SN	2%	Solidago nemoralis			Gray Goldenrod	Flowering Perennial

SASAKI
110 Chauncy Street
Boston, MA 02111
TEL: 617.926.3300
www.sasaki.com

TG MILLER
605 West State Street, Suite A
Ithaca, NY 14850
TEL. 607.272.6477
www.tgmillerpc.com

EXTRACUTANEOUS
LEMESSURIER
1380 Soldiers Field Road
Boston, MA 02135
TEL. 617.868.1200
www.lemessurier.com

RRFS ENGINEERING
71 Water Street
Laconia, NH 03246
TEL: 603.524.4647
www.rrfsengineering.com

HOWE ENGINEERS
141 Longwater Drive, Suite 11
Norwell, MA 02061
TEL: 781-878-3500
www.howeengineers.com

o.	Description
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04/19/2024
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Figure 1 consists of two schematic diagrams. Diagram (a) is a top view of a circular arena with a central platform. A shaded area is shown on the left side of the arena. Diagram (b) is a side view of the arena and platform, showing the platform's height and the arena's depth.

Object Title:
Cornell University
Indoor Sports and Recreation Center & Multi-Purpose

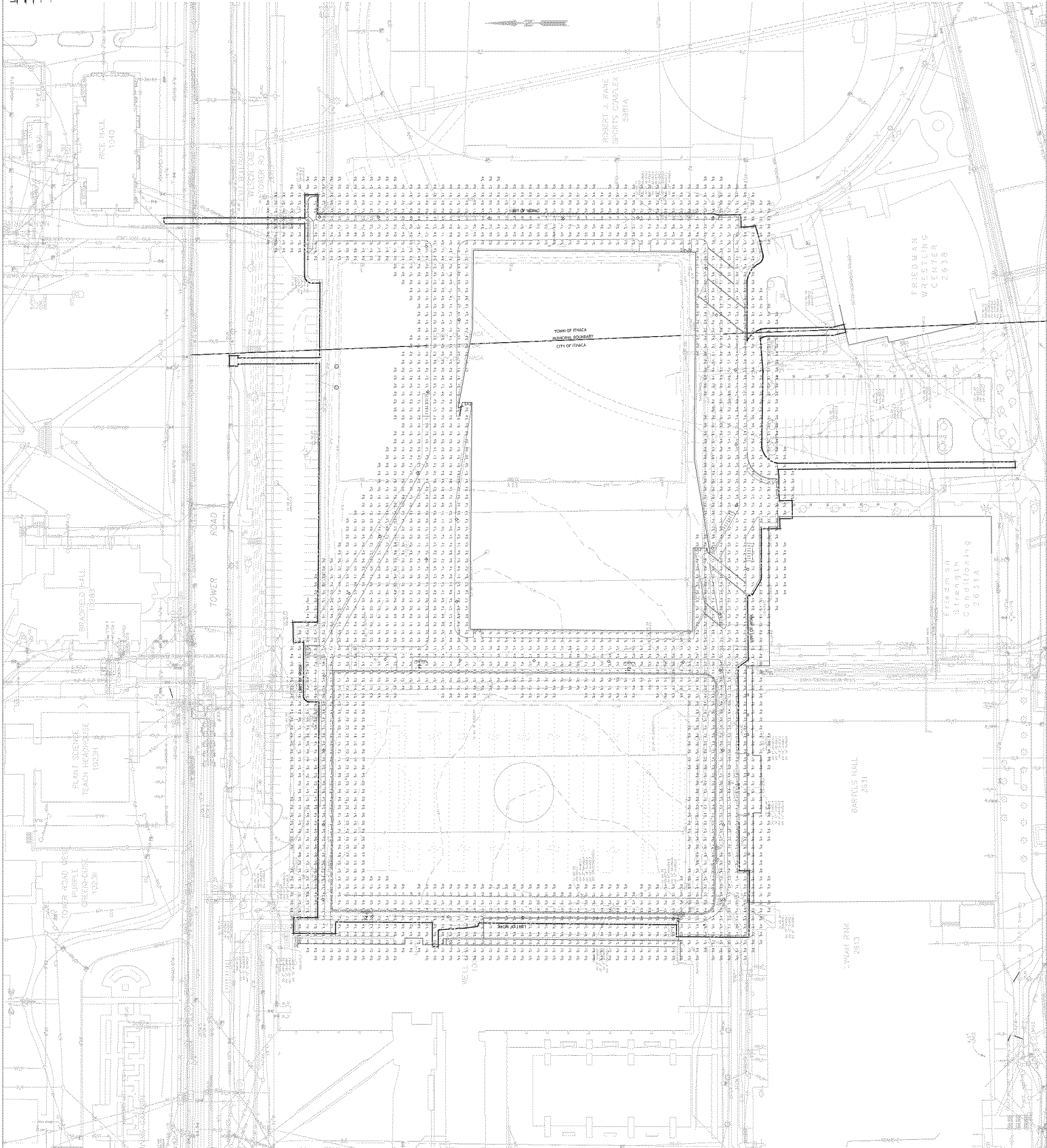
Buffing Title:

Visit Project No. 11435
1465 Project No. 28020.00
Drawn By: AB, TS, SC
Checked By: SC, TS, JP

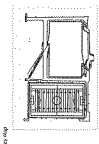
Approved by: **MD**
Issue Date: **06.19.2024**
L6-01
Revised: **MD**

LEGEND

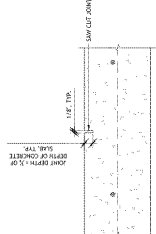
SUBMITTER'S NAME	SYMBOL	DESCRIPTION
LIMIT OF WORK (LOW)		MUNICIPAL BOUNDARY
STATE LIGHT POLE		BEGA POLE FOR LUMINAIR 18 MOONLIGHT RECEPT
SHORTS LIGHT POLE, 60' HIGH		STREET STRUCTURE SYSTEM P1 F2-70 MOONLIGHT HEAD 73.4'-80 MOONLIGHT HEAD
ALL DIMENSIONS IN FEET.	+11.8	PROJECT AREA (F)





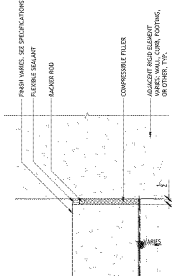


NOTE:
REFER TO LAYOUT PLANS FOR JOINTING THE LAUNET, AND
PAVING THE SIDEWALKS.



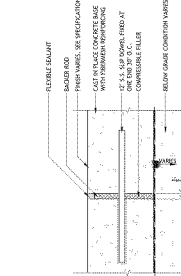
JT-03 CONTROL JOINT
7'-1'-0"

NOTE:
REFER TO LAYOUT PLANS FOR JOINTING THE LAUNET, AND
PAVING THE SIDEWALKS.



JT-02 EXPANSION JOINT AT VERTICAL ELEMENT
7'-1'-0"

NOTE:
REFER TO LAYOUT PLANS FOR JOINTING THE LAUNET, AND
PAVING THE SIDEWALKS.

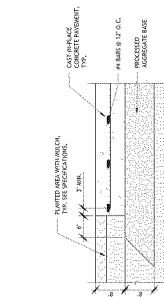


JT-01 EXPANSION JOINT
7'-1'-0"

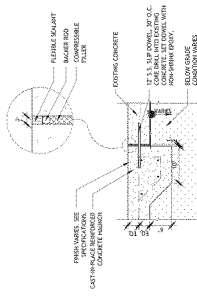
DETAIL IN PROGRESS, PENDING
COORDINATION

PA-10 SMOOTH CONCRETE PAVEMENT BAND
7'-1'-0"

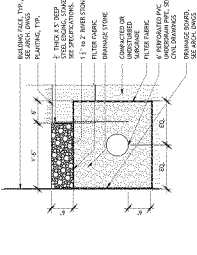
PA-09 HEAVY-DUTY CONCRETE PAD FOR EXISTING DUMPSTERS
7'-1'-0"



NOTE:
1. CONCRETE PAVEMENT SHALL BE CAST IN PLACE. FINISH, UNLESS OTHERWISE NOTED.
2. SEE SPECIFICATIONS FOR CONCRETE JOINT REQUIREMENTS.

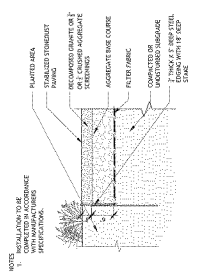
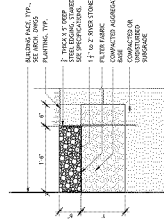


PA-08 C.I.P. CONCRETE AT EXISTING CONCRETE PAVING
7'-1'-0"

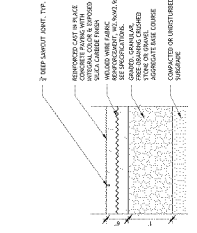


PA-07 RIVERSTONE DRIP EDGE WITH UNDERDRAIN
7'-1'-0"

PA-06 RIVERSTONE DRIP EDGE
7'-1'-0"

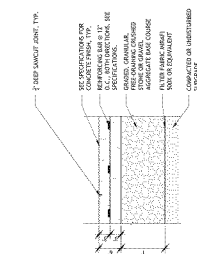
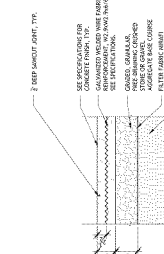


PA-05 STABILIZED STONEDUST PAVING
7'-1'-0"

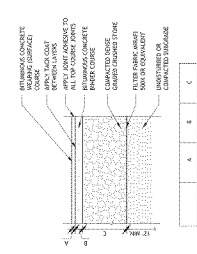


PA-04 COLORED CONCRETE PAVING W/ SILICA CARBIDE
7'-1'-0"

PA-03 CONCRETE PAVING
7'-1'-0"

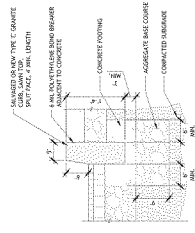


PA-02 CONCRETE PAVING - HEAVY-DUTY
7'-1'-0"

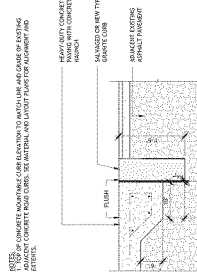


PA-01 ASPHALT PAVING
7'-1'-0"

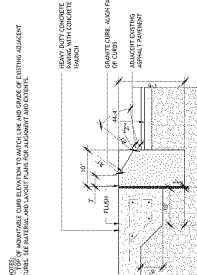
FINISH	A	B	C	D
FINISH	1.1/2"	1.1/2"	1.1/2"	1.1/2"



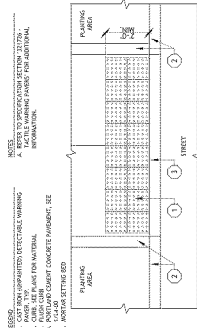
EG-03 GRANITE CURB
1/2" = 1'-0"



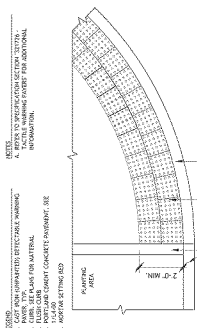
EG-02 GRANITE FLUSH CURB
1/2" = 1'-0"



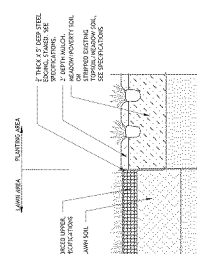
EG-01 GRANITE MOUNTABLE CURB
1/2" = 1'-0"



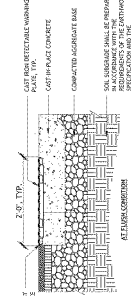
EG-05 TACTILE WARNING PAVERS
1/2" = 1'-0"



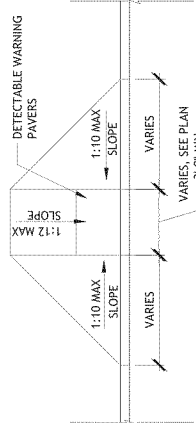
EG-04 TACTILE WARNING PAVERS ON RADIUS
1/2" = 1'-0"



EG-08 STEEL EDGING
1/2" = 1'-0"



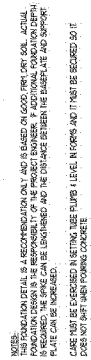
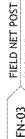
EG-07 CAST IRON FLUSH WARNING PAVES
1/2" = 1'-0"

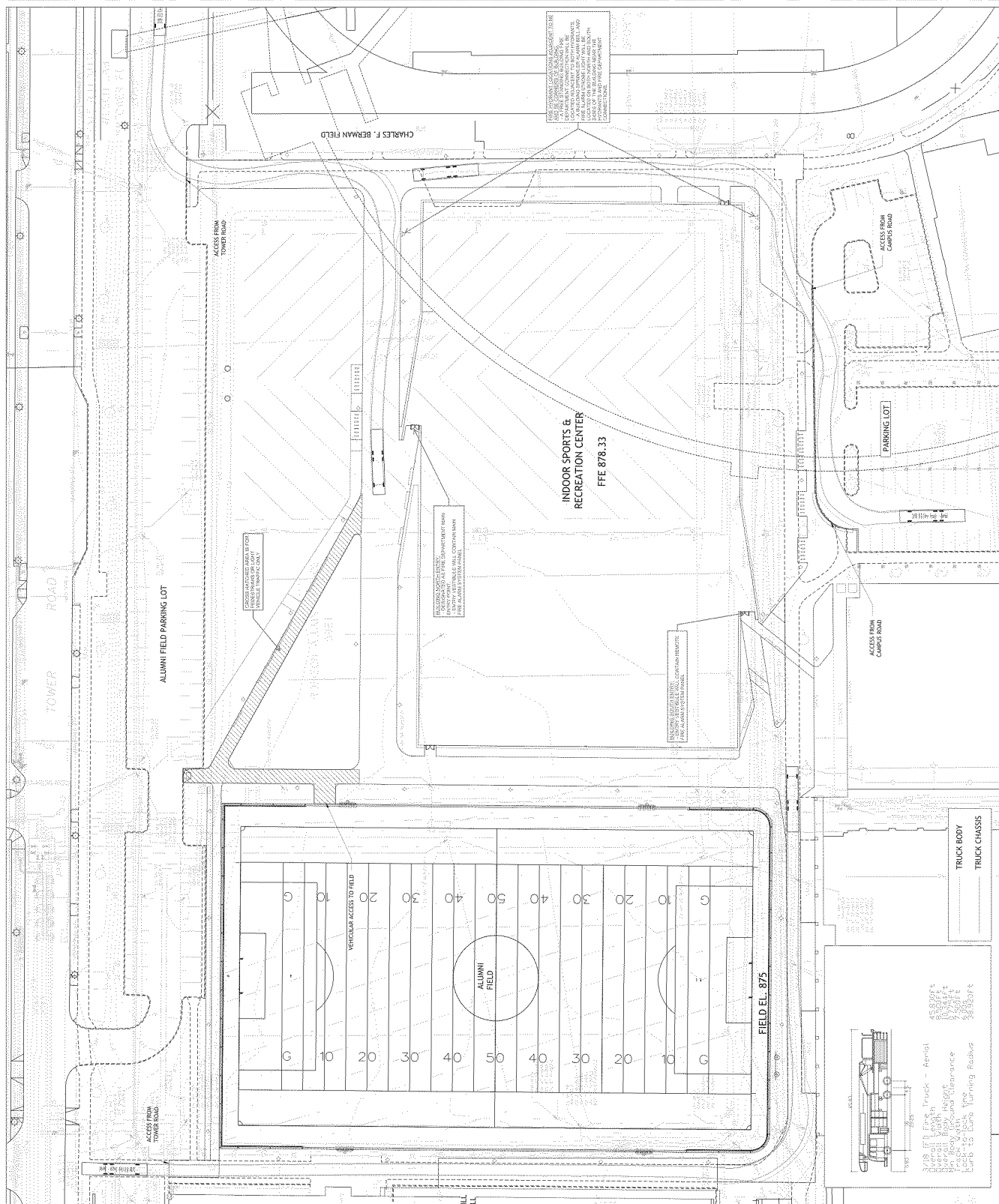


EG-06 DROP CURB
1/2" = 1'-0"

Issue Date: 04.19.2024

Doc# 18-11





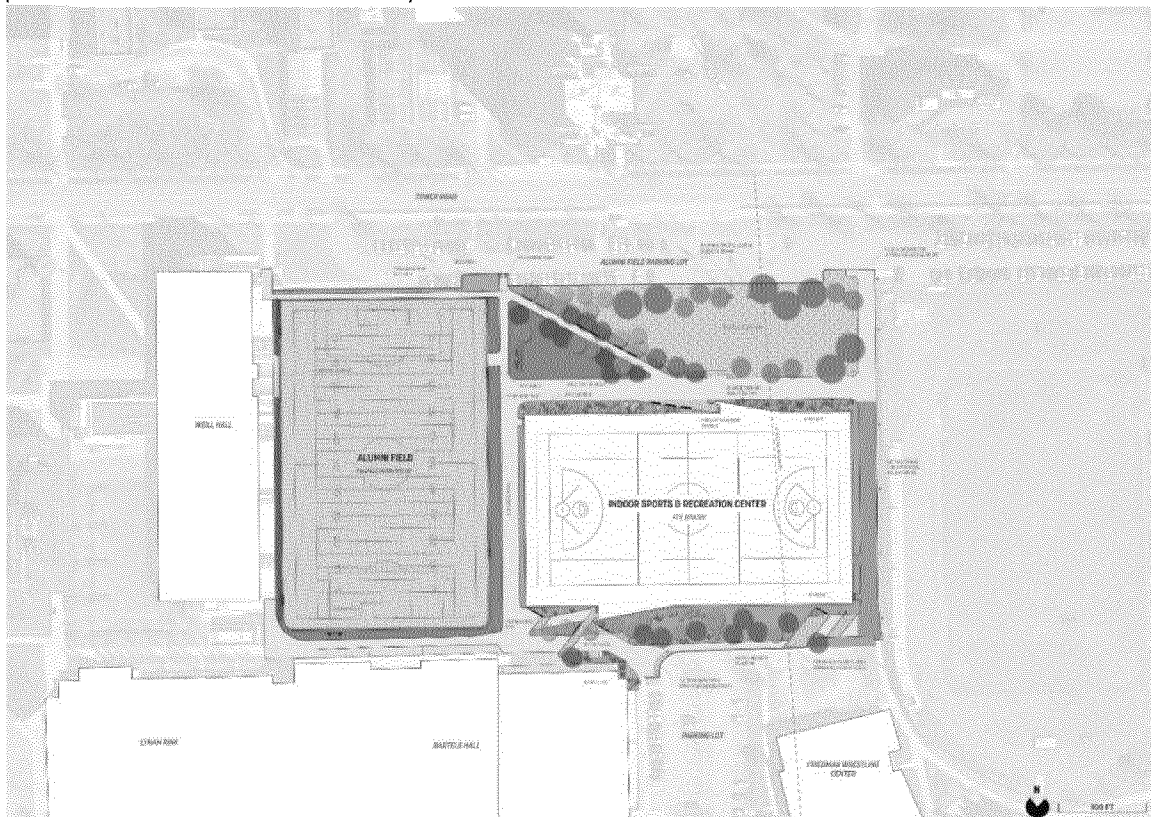
Description of Project Changes & Responses to Planning Board Questions

Revised Site Plan

As previously noted in the December 2023, Site Plan Review Application, Cornell University is proposing to construct the Meinig Fieldhouse, an indoor sports and recreation center, on Cornell's Central Campus in the area currently occupied by Robison Alumni Fields. Since the original submission, the project scope has been revised to show a new multi-purpose athletic field in the location of the previously proposed field hockey outdoor turf field to the west of the proposed Meinig Fieldhouse building. The previous submission included a proposed 77,354 SF field hockey field with amenities. The revised project scope includes a proposed 92,098 SF (93,098 SF with perimeter curb) multi-purpose synthetic turf athletic field that will support a variety of sports activities for much of the year. The updated site plan removes several elements that were previously proposed for the field hockey field, including the removal of the flagpole, team storage area, team shelters, press box, and spectator seating. The proposed scoreboard has been relocated to the southern portion of the field.

Due to the field size expansion, the sports lighting poles have shifted slightly further apart. The sports lights to the west (F3-F4) of the multi-purpose field have been shifted towards the field corners to avoid existing underground utilities and surface features remaining on site. Due to this shift, these two poles now have a mounting height of 80 feet, while F1-F2 remain at a mounting height of 70 feet.

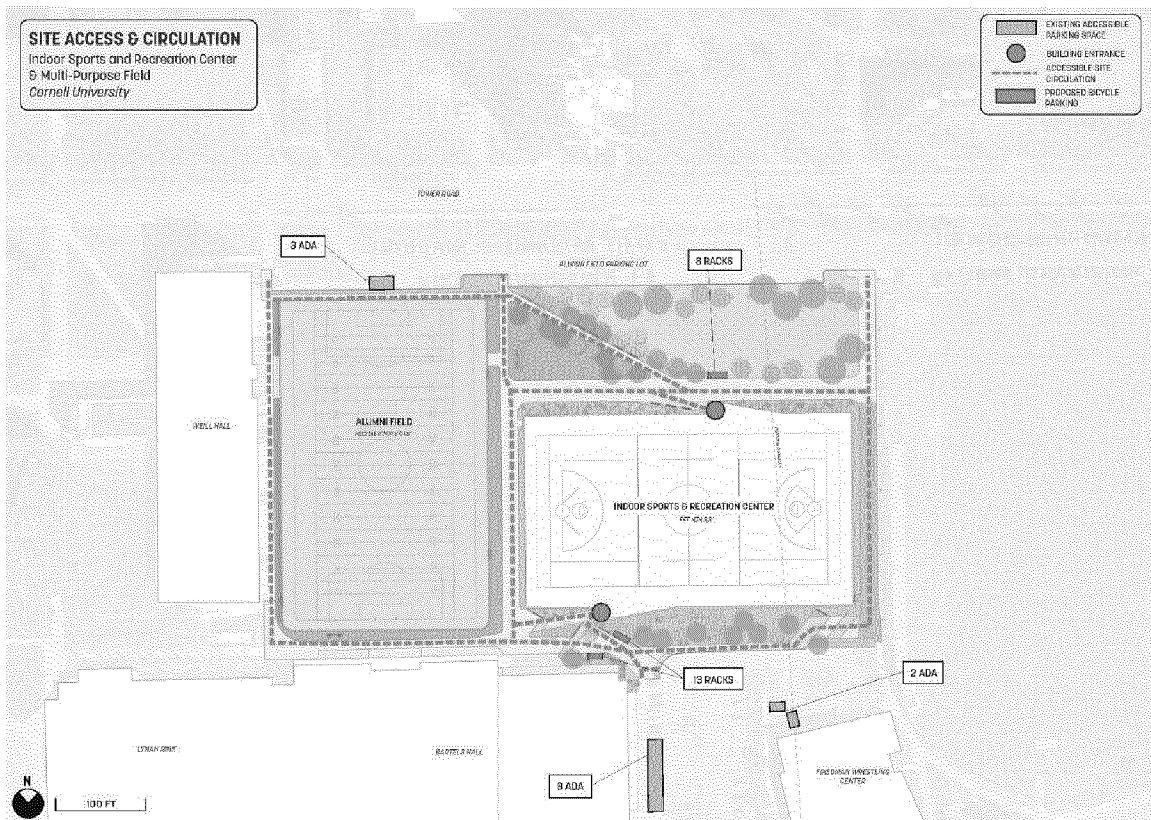
The scope of the Meinig Fieldhouse portion of the project has not changed. The Meinig Fieldhouse is a 90,000SF building at 56 feet tall which will enable year-round practice and play space for athletes as well as limited competition venue for NCAA Lacrosse Players.



Revised Site Access and Circulation

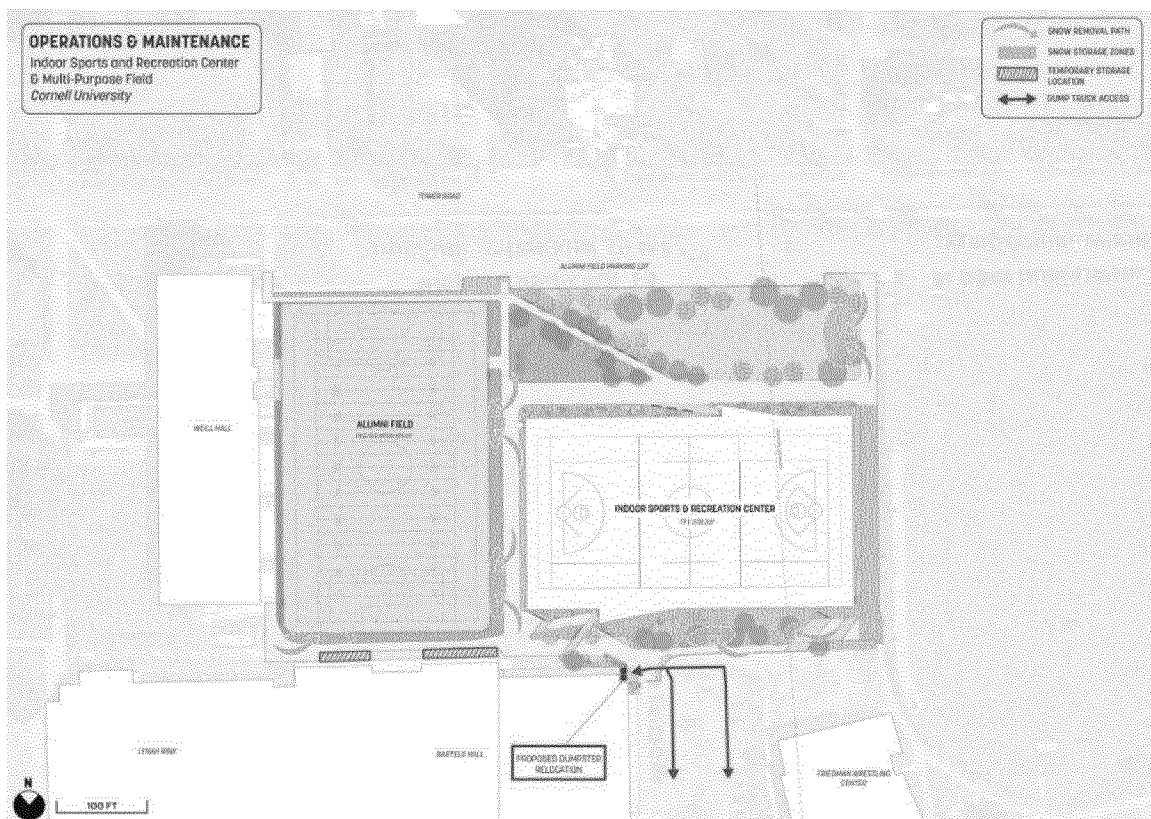
A revised Site Access and Circulation diagram is provided below. As noted in the original Site Plan Review Application dated December 2023, very little parking is expected to be needed daily as the facility is primarily expected to be used for students for practice, recreation, and club play. Bicycle parking on the site has been reconfigured and includes a total of 21 bicycle parking spaces separated into three bicycle parking facilities. As noted in the December 2023 submission, bicycle parking facilities will be easily accessible from pedestrian or fire access pathways and will not intrude into these walkways.

Due to changes to the site layout, only one (1) non-ADA parking space will be removed from the Bartels Lot to the south because of the proposed project. Three (3) ADA accessible parking spaces will remain in the Alumni Lot to the north, and 8 ADA accessible parking spaces in the Bartels Lot to the south.



Revised Operations and Maintenance Strategy

The revised Operations and Maintenance strategy includes minor modifications to the areas in the site identified for piling snow, including removal of a snow piling area on the northeastern portion of the field, and relocation of one of the southern snow piling areas. The location of the concrete dumpsters on heavy-duty concrete pads, accessible via flush curb from the parking area adjacent to the Friedman Wrestling Center, remains unchanged from the December 2023 submission. Service access to the Meinig Fieldhouse via 10-foot wide roll-up door, as well as proposed service access drives and delivery routes, remain unchanged from the December 2023 submission.



Landscaping and Planting Plan

As noted in the December 2023 submission, natural landscaping around the building will include a variety of species with a strong emphasis on using native, non-invasive plant materials. The City of Ithaca Planning Board requested additional information regarding tree clearing and protection and tree planting, as well as an updated planting plan. During construction, a total of 18 *Quercus rubra* will be removed, and 60 trees will be planted on site, resulting in a net addition of 42 trees on the site. As noted in the Planting Plan under separate cover, the trees to be planted include:

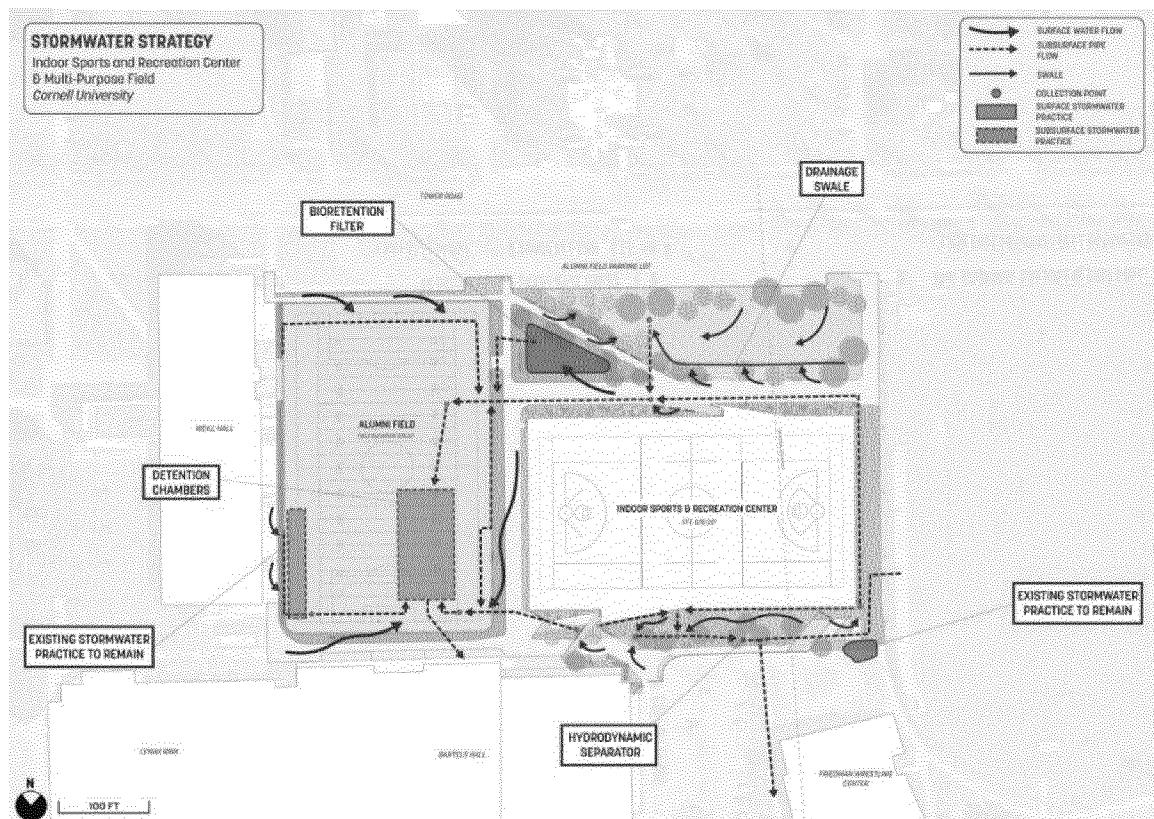
1. (11) 2.5" caliper *Acer rubrum* 'Redpointe'
2. (14) 8-10' height *Amelanchier x grandiflora* 'Autumn Brilliance'
3. (18) 8-10' height *Betula papyrifera* 'Oenci'

4. (10) 8-10' height *Cercis canadensis* 'Northern Strain'
5. (7) 2.5" caliper *Ulmus americana* 'Princeton'

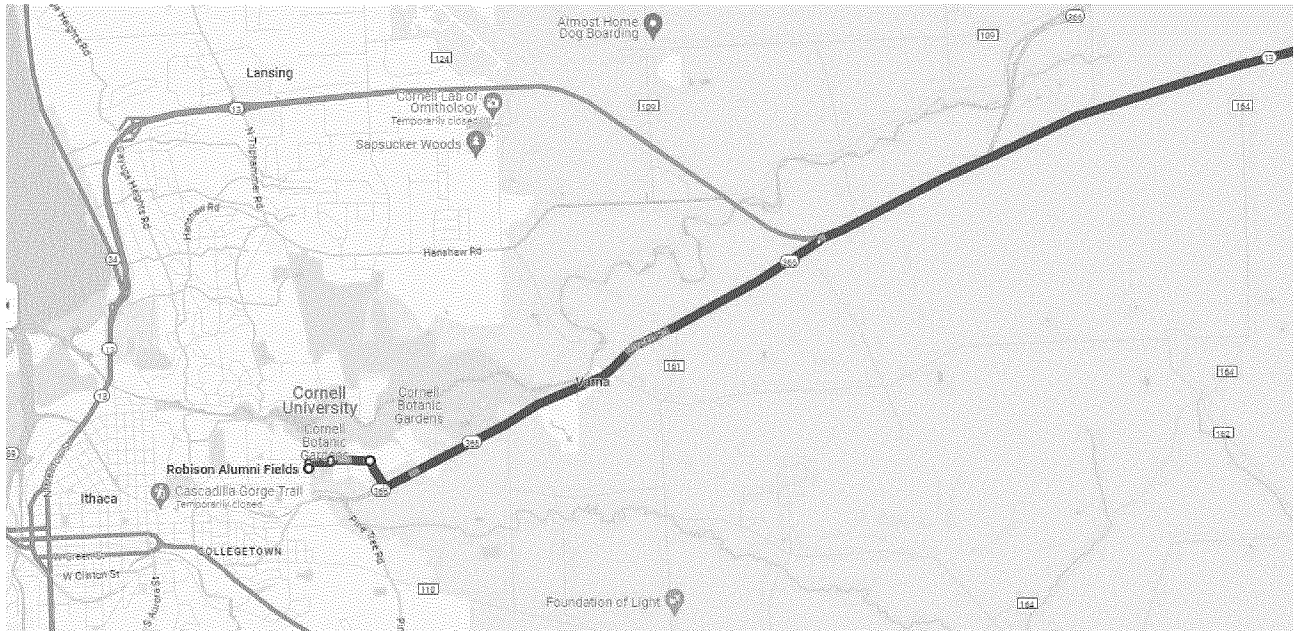
A variety of shrubs, perennials, ground covers, and a native planting mix are also proposed to be planted on the site. Reference L5-01 and L5-02 in the revised technical drawing set under separate cover for additional information.

Stormwater Updates and Additional Information

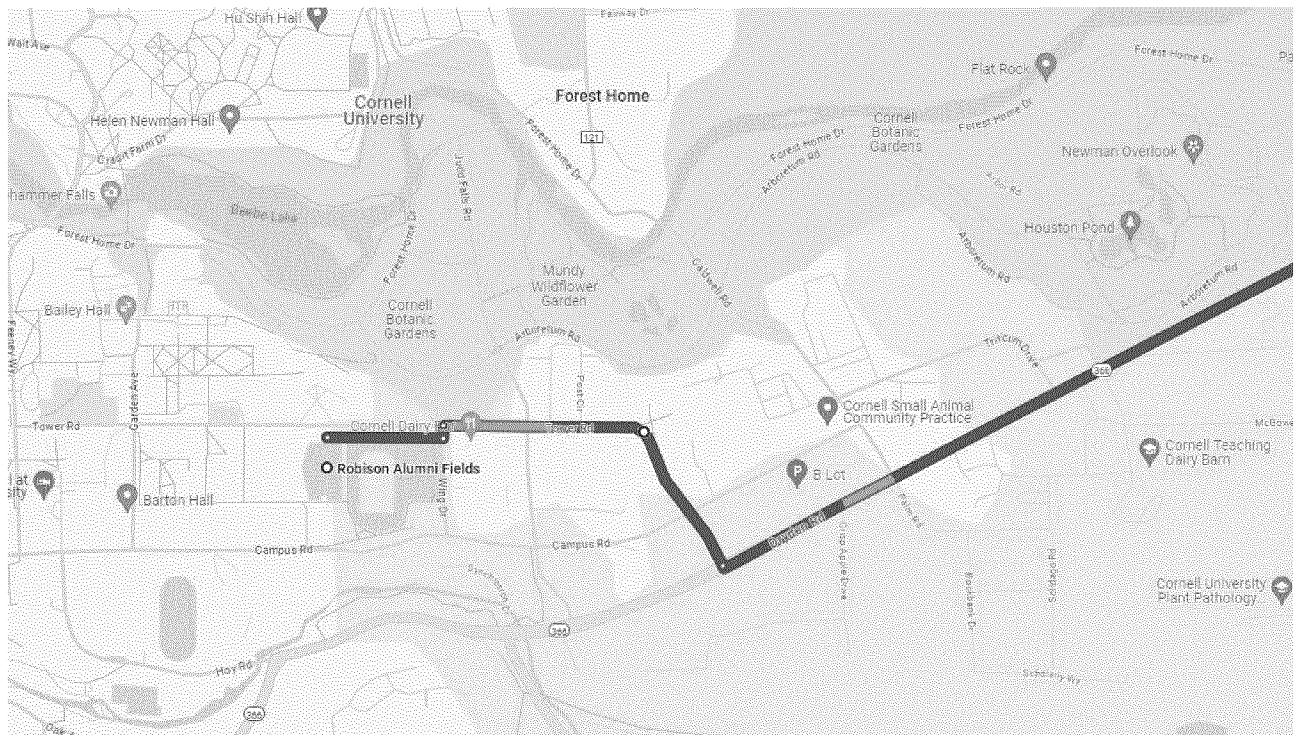
All of the proposed stormwater management practices will be located within the City of Ithaca. Runoff from the artificial turf field and a majority of the proposed fieldhouse will be conveyed to a single below grade detention system with the required volume to detain the 1% chance storm event. This system will use manufactured chamber units encased in an envelope of stone and be located underneath the turf field. Diversion structures will be placed upstream of the detention system to direct runoff from low flow events to the system's pretreatment "isolator rows". Higher flow events will bypass the isolator rows and enter the system directly. An outlet control structure will be installed downstream of the system to ensure discharge rates do not exceed the existing conditions. Sand filter units, located underneath the below grade detention system, will provide water quality treatment for the required water quality volume (WQv). A bioretention filter located in the open space north of the fieldhouse will provide additional WQv treatment and satisfy the project runoff reduction volume (RRv) requirement. Additional WQv will be provided by a hydrodynamic separator located in the landscaped area south of the proposed fieldhouse.



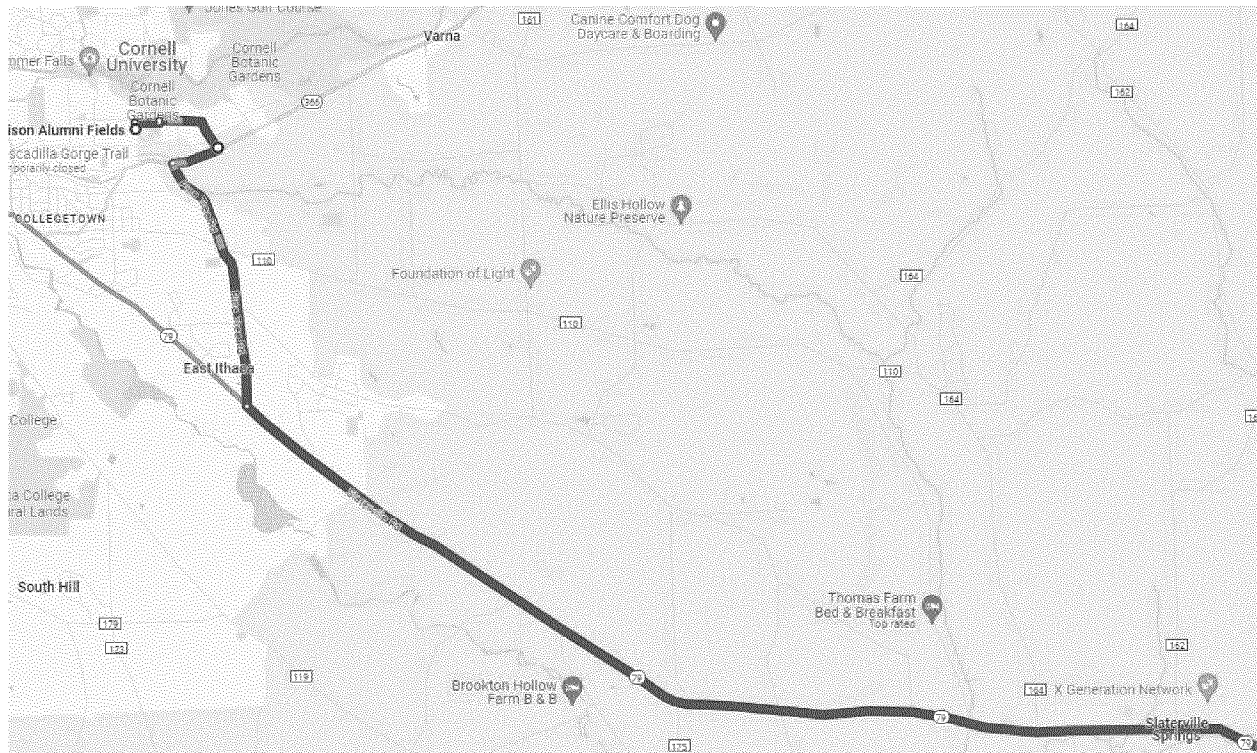
Traffic leaving the site and heading north would use route 366 to route 13 to 81 north.



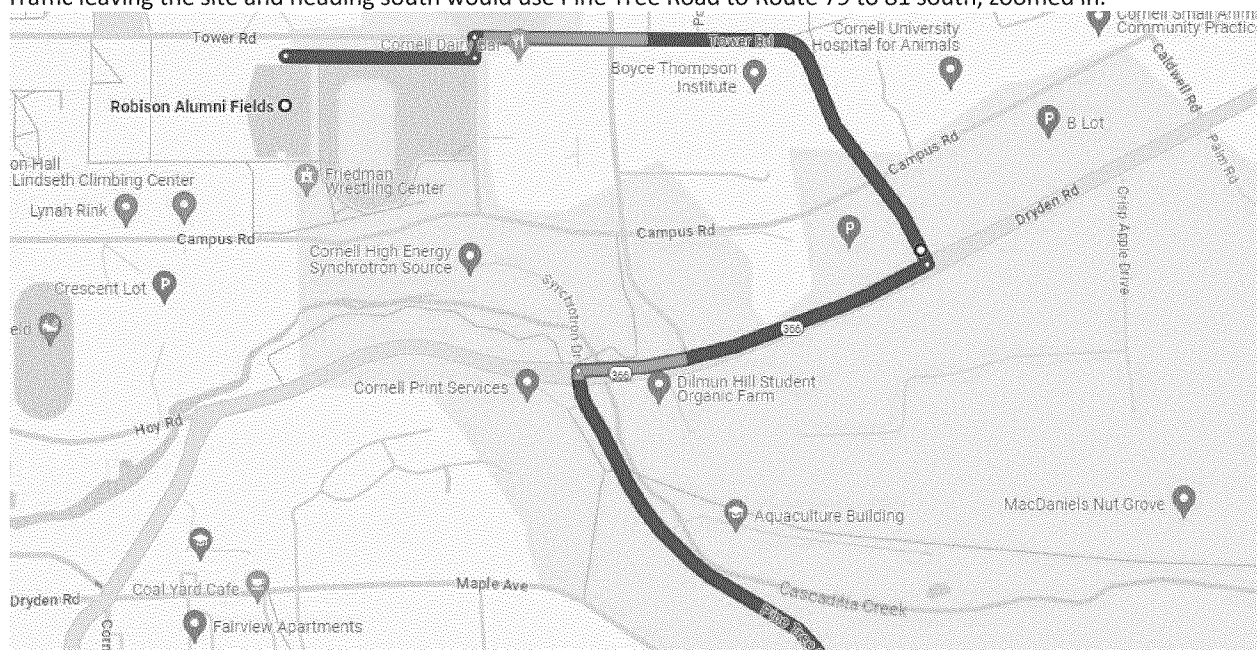
Traffic leaving the site and heading north would use route 366 to route 13 to 81 north, zoomed in.



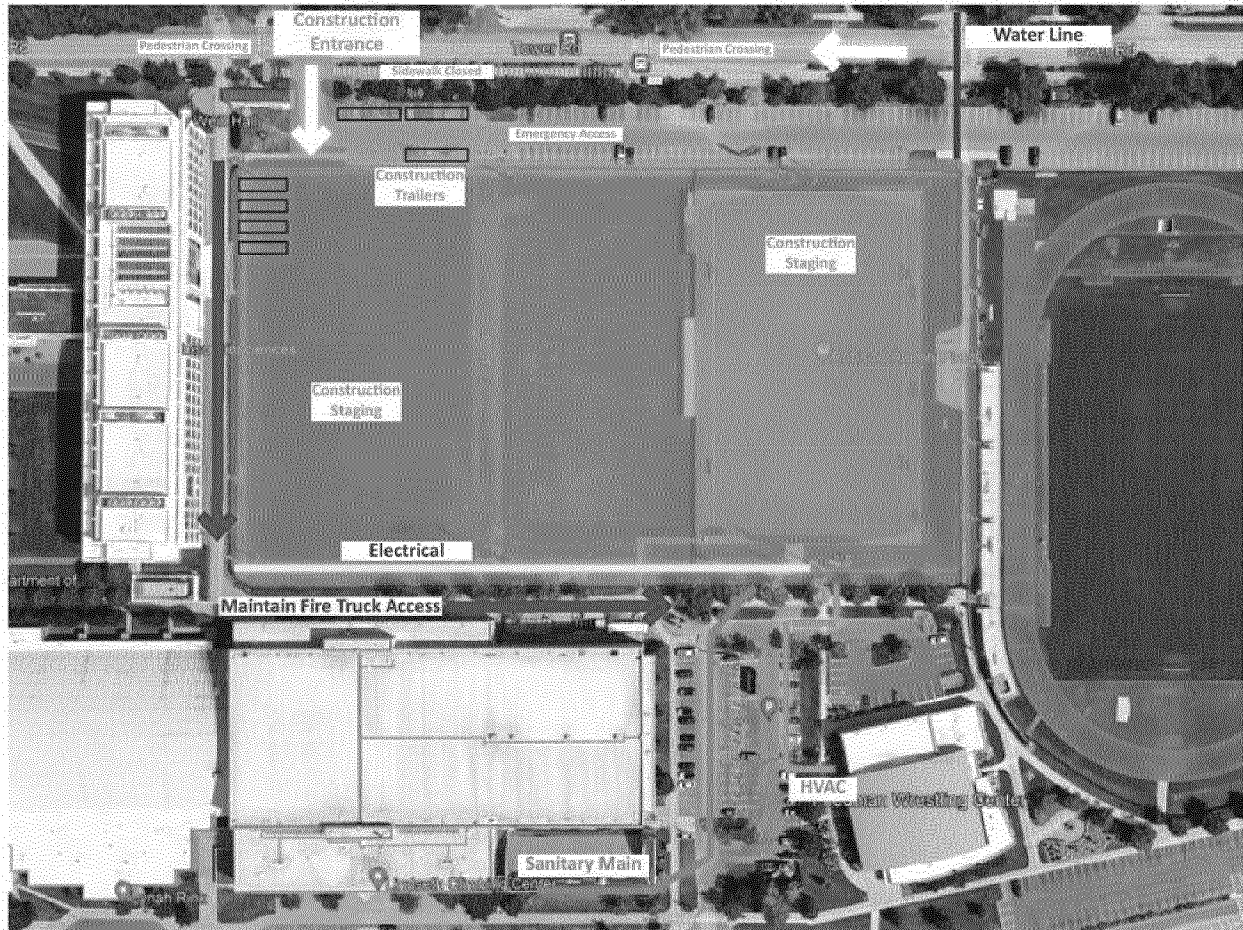
Traffic leaving the site and heading south would use Pine Tree Road to route 79 to 81 south.



Traffic leaving the site and heading south would use Pine Tree Road to Route 79 to 81 south, zoomed in.



Site Construction logistics, approximately November 2024 – March 2026



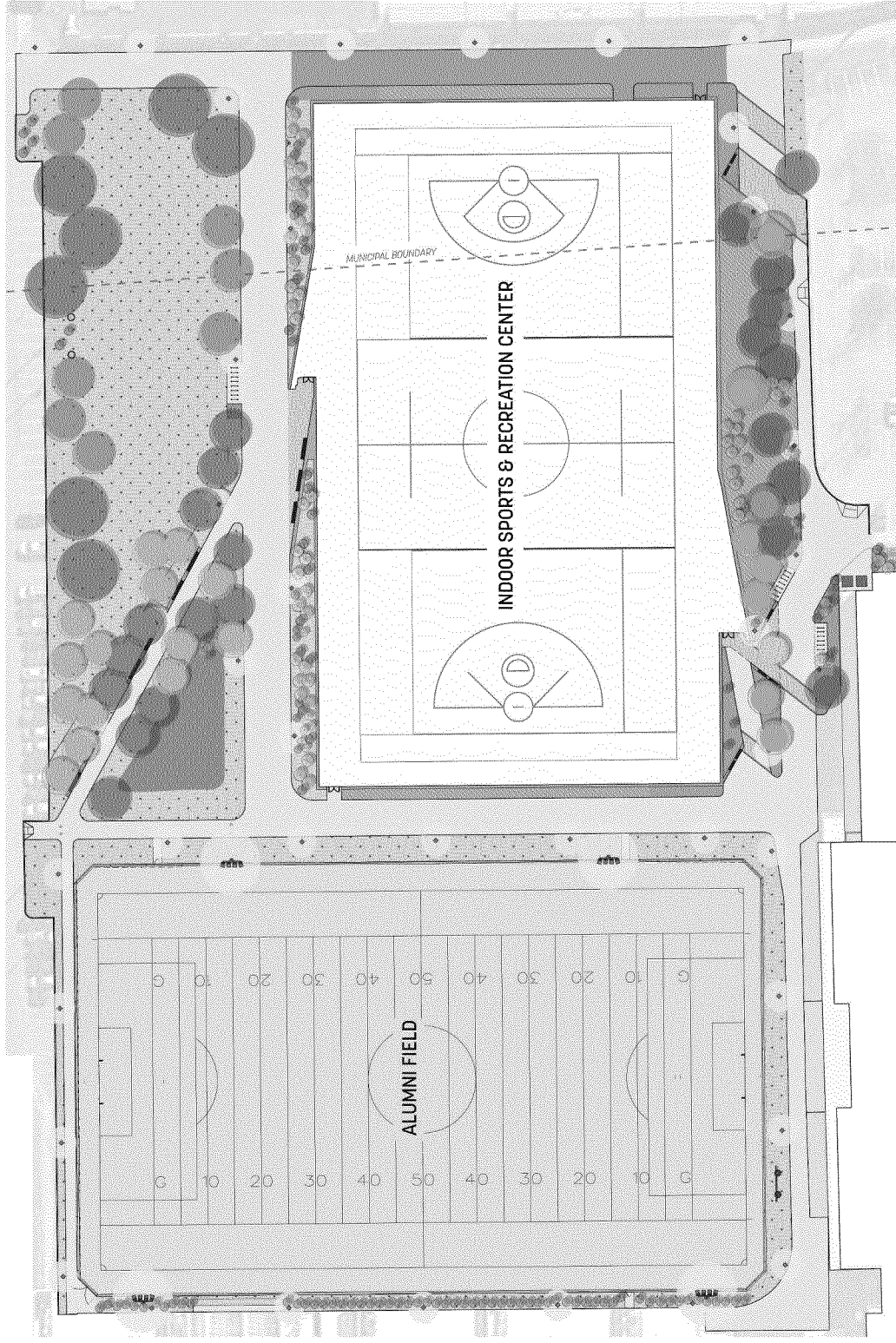
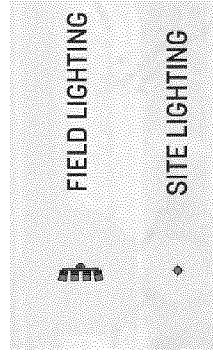
Renderings



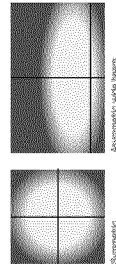
Figure 1: Meinig Fieldhouse and multipurpose athletic field viewed south



Site Lighting



Lighting



Site lighting



Pole-top luminaires: symmetric			
	LED	A	B
84-401	23.4 W	30°	14 1/2°
84-402	47.4 W	30°	14 1/2°

Pole-top luminaires: asymmetric wide beam			
	LED	A	B
84-403	23.6 W	30°	14 1/2°
84-404	51.6 W	30°	14 1/2°

Prices for above luminaires - see page 402-411.

5 Easy Pieces™
Complete System from Foundation to Poletop

Factory wired, aimed, and tested
Fast, trouble-free installation
Comprehensive corrosion package
Integrated lightning ground

Field lighting

- will be more energy-efficient
- 10 existing poles (8 to be removed, 2 to stay for the hawk)
- 4 proposed

5 Poletop Luminaire Assembly

4 Wire Harness

3 Electrical Components Enclosure

2 Galvanized Steel Pole

1 Precast Concrete Base

TLC for LED®

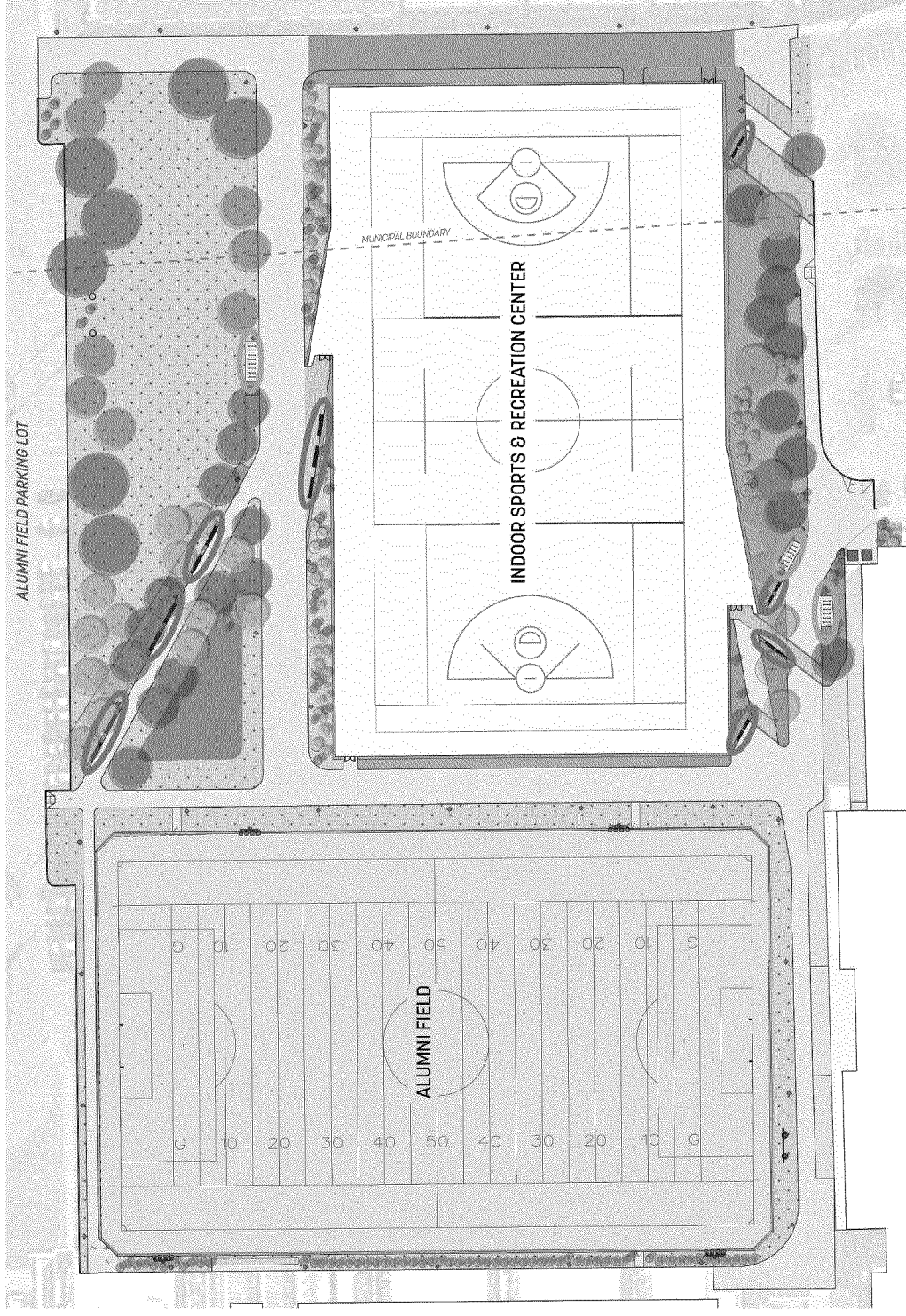
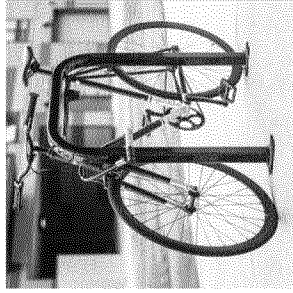
musco

TLC for LED is a trademark of Musco Sports Lighting, LLC and is registered in the United States. ©2015, 2016 Musco Sports Lighting, LLC - U.S. and foreign patents issued and pending. - 84-1201-100-1
www.musco.com - lighting@musco.com

Seating & Bicycle racks

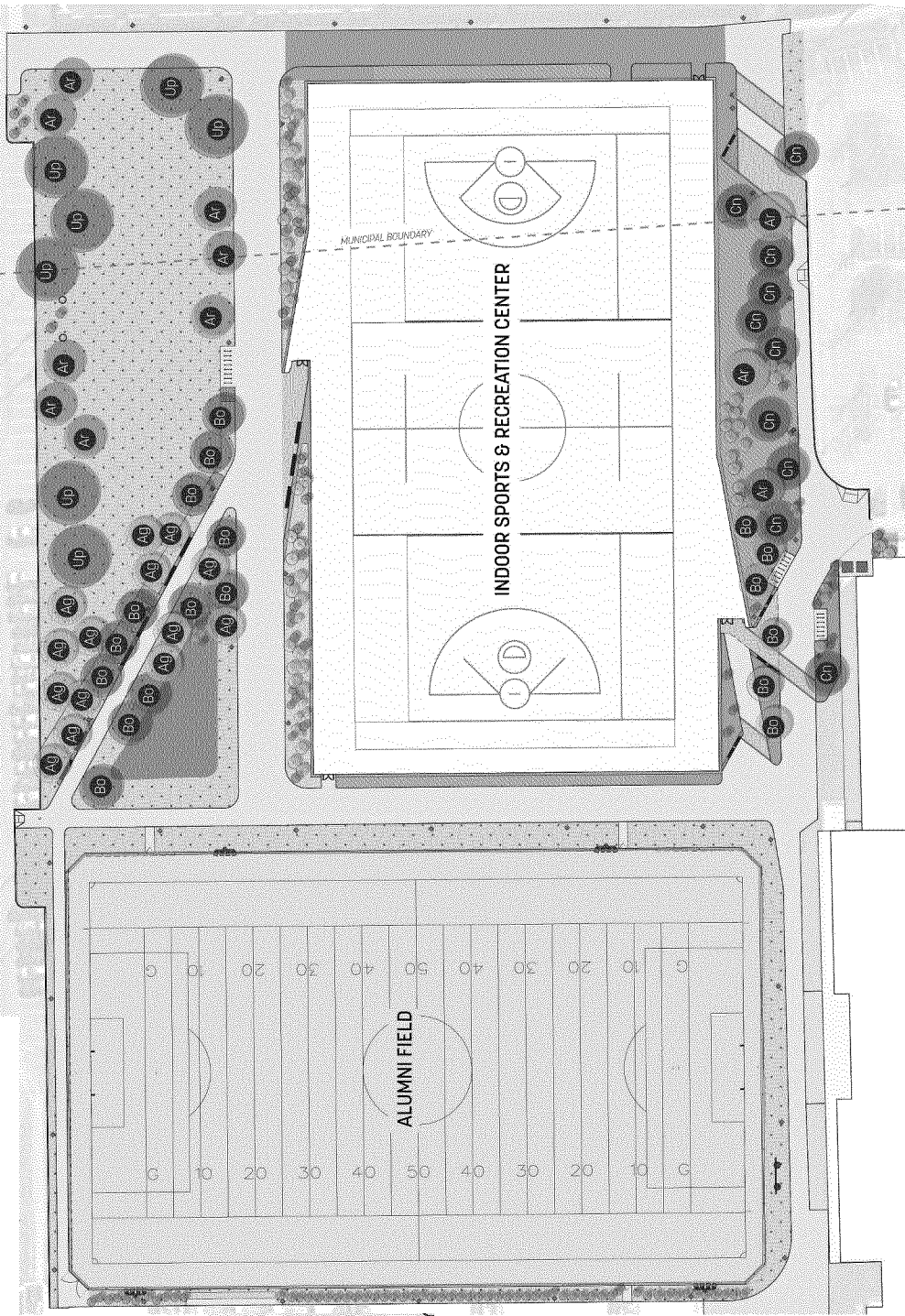
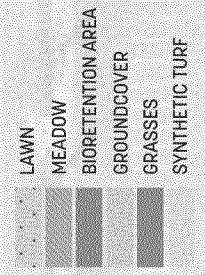
 PRECAST CONCRETE BENCHES (17)

 BICYCLE RACKS (21 racks, space for 42 bicycles)

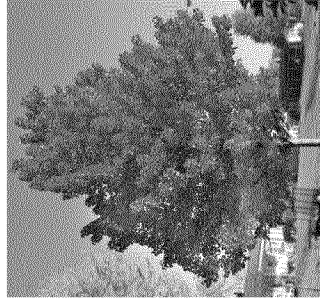


Plant Materials

- 60 TREES ADDED; 18 TREES REMOVED; CHANGE: +42 TREES
- Ar (11) RED MAPLE (ACER RUBRUM 'REDPOINT') - 2.5" CALIPER
 - Ag (14) APPLE SERVICEBERRY (AMELANHIER X GRANDIFLORA 'AUTUMN BRILLIANCE') - 8-10' HEIGHT
 - Bo (18) - PAPER BIRCH (BETULA PAPYRIFERA 'OENCI') - 8-10' HEIGHT
 - Cn (10) EASTERN REDBUD (CERCIS CANADENSIS 'NORTHERN STRAIN') - 8-10' HEIGHT
 - Up (7) AMERICAN ELM (ULMUS AMERICANA 'PRINCETON') - 2.5" CALIPER



Trees



Redpointe Red Maple - fall



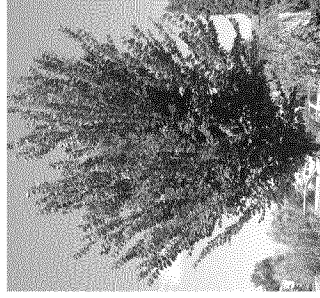
spring - Autumn Brilliance Apple Serviceberry - fall



R.O. Paper Birch - fall



N.S. Eastern Redbud - spring



Princeton American Elm

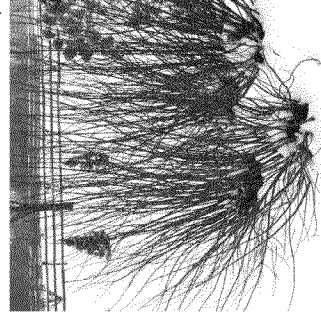
Shrubs



Red Chokeberry - fall



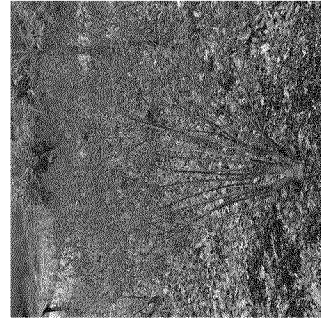
Low Mound Black Chokeberry - spring



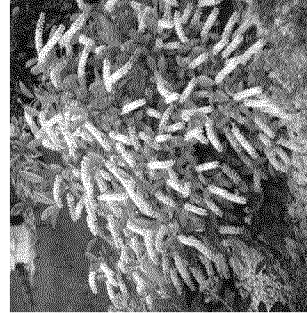
Red Twig Dogwood - winter



Shamrock Inkberry Holly



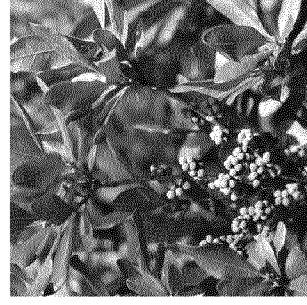
Red Sprite Winterberry



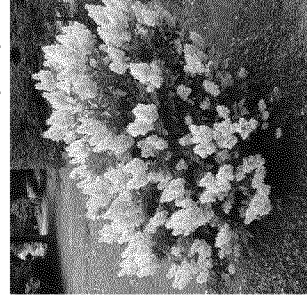
Merlot Sweetspire



Siberian Carpet Cypress



Bobee Northern Bayberry



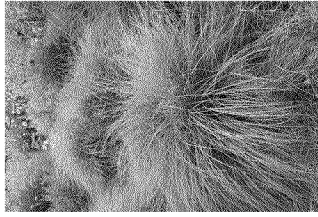
Miss Kim Korean Lilac



Darts Duke Viburnum



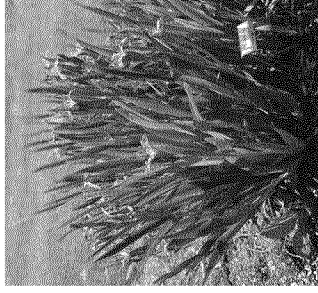
Ground Covers



Pennsylvania Sedge



Christmas Fern



Blue Flag Iris



Soft Rush



Cardinal Flower



Deutschiand Astilbe



Cape Breeze Switchgrass



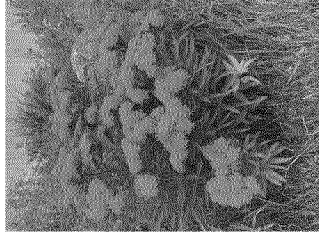
Blue Zinger Sedge



Husker Red Beardtongue



White Turtlehead



Butterfly Milkweed



Calico Aster



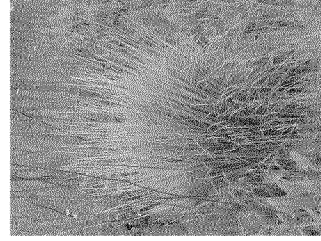
Side Oats Grama



Lanceleaf Tickseed



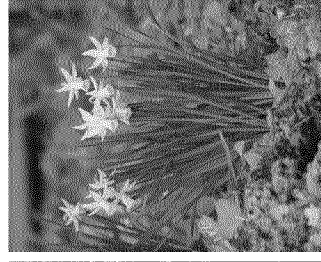
Mountain Mint



Little Bluestem



Gray Goldenrod



February Gold Daffodil

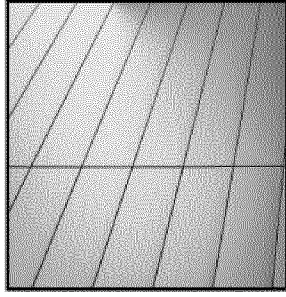


Virginia Wild Rye

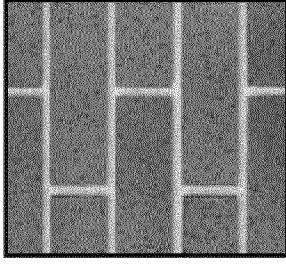


EXTERIOR MATERIAL PALETTE

Primary Facade Material:
Insulated Metal Panel - Mid-Tone Gray
Basis of Design: Kingspan - Silversmith



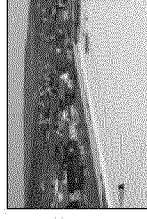
Brick Base:
Managanesse Ironspot
Basis of Design: Endicott Clay Products



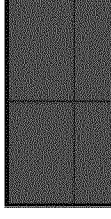
Blind-Friendly Glass:
Dots 2x4 box, Threat Factor 25
Basis of Design: Viracott



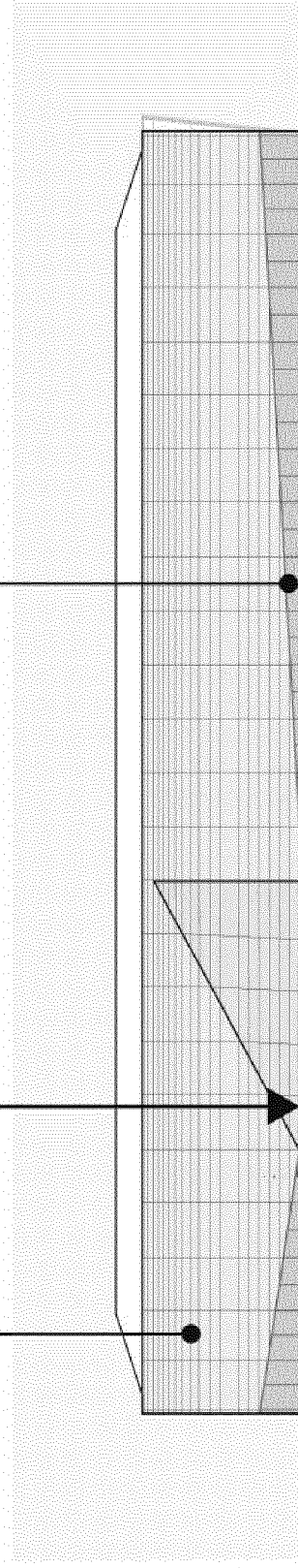
Roofing Material:
PVC Membrane Roofing - White
Basis of Design: Silva Samelli



Metal Panel Access:
Alum. Composite Panel - Dark Gray
Basis of Design: Alucobond Plus



Glazing Systems:
Curtain Wall / Storefront - Dark Gray
Basis of Design: Kawneer



North Elevation



Cornell University | Meigs Fieldhouse Indoor Sports and Recreation Facility



Cornell University | Meing Fieldhouse Indoor Sports and Recreation Facility













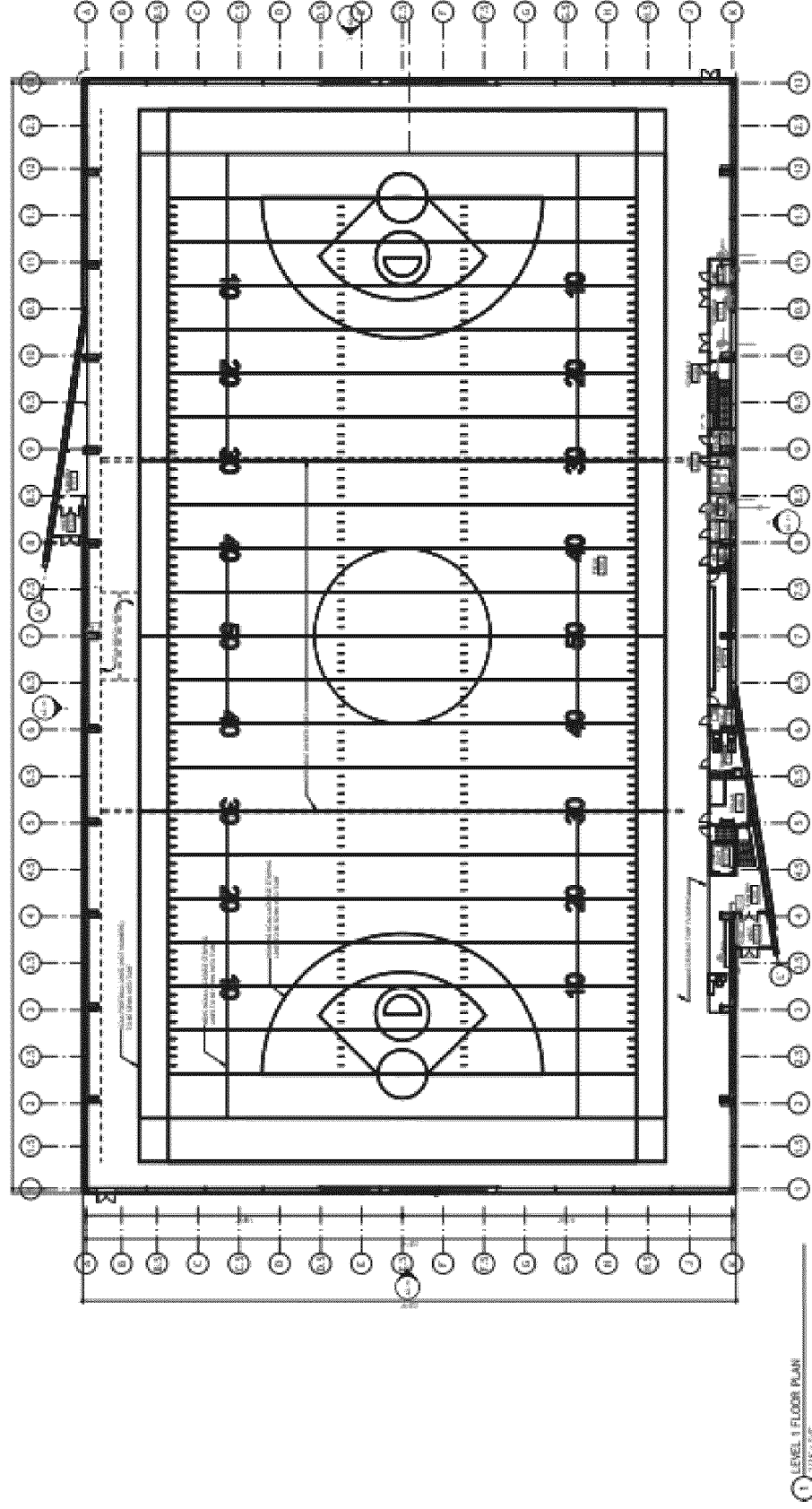
Cornell University

**Meinig Fieldhouse
Indoor Sports and Recreation Facility**

City of Ithaca Planning Board
September 26, 2024

[illegible]

Floor Plan – Level 1



Floor Plan - Mezzanine

