



690 Chesterfield Pkwy W • Chesterfield MO 63017-0760
Phone: 636-537-4000 • Fax 636-537-4798 • www.chesterfield.mo.us

Architectural Review Board Staff Report

Project Type: Site Development Plan

Meeting Date: March 11, 2021

From: Natalie Nye
Planner

Location: A 10.78-acre parcel of vacant land located at 150 N. Eatherton Road.

Description: **150 N. Eatherton Rd. (Chesterfield Fieldhouse)**: A Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 10.78-acre parcel of land zoned "PI" Planned Industrial District located at 150 N Eatherton Road.

PROPOSAL SUMMARY

The request is for a 98,000 square foot gymnasium and associated parking lot located at 150 N. Eatherton Road. The subject site is zoned "PI" Planned Industrial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 2939. The exterior building materials will primarily consist of painted concrete panels with decorative reveals and aluminum storefronts. Rooftop-mounted mechanical equipment will be screened by the parapet walls and the proposed trash enclosure will be six feet in height and match the color and material of the building's façade.

HISTORY OF SUBJECT SITE

The subject site was zoned "NU" Non-Urban by St. Louis County prior to the City's incorporation. On February 22, 2017 the subject site was rezoned from "NU" to "PI" Planned Industrial District to allow for development that would permit approximately 140,000 square feet of office, warehouse and other similar uses on the 10.78-acre parcel. The subject site is currently governed by Ordinance 2939 which is a result of the rezoning process in 2017. The subject site is vacant with no structures or improvements present.

STAFF ANALYSIS

General Requirements for Site Design:

The subject site is located on North Eatherton Road just west of The Crossing at Chesterfield Church and the Landings at Spirit Golf Club. The subject site is also directly adjacent to an existing single-family residence to the northwest that is zoned “NU” Non-Urban. Apart from the church and single-family residence, much of the surrounding area has not yet been developed and the subject site itself is vacant. This area is designated as “Industrial” within the City of Chesterfield’s Comprehensive Land Use Plan. The proposed use of gymnasium is permitted by site-specific Ordinance 2939 and will be surrounded by established sport uses including the nearby golf course.



Figure 1: Aerial Site Photo (lot not drawn to scale/approximated)

The proposed building has frontage on North Eatherton Road, which is classified as a minor arterial road according to the City’s functional classification system. The building will be considerably setback from the road, but will be highly visible due to the topography of the site. The primary entrance to the building will be located on the north elevation, which will face the site’s northern entrance off of the access road for the Landings at Spirit Golf Club.

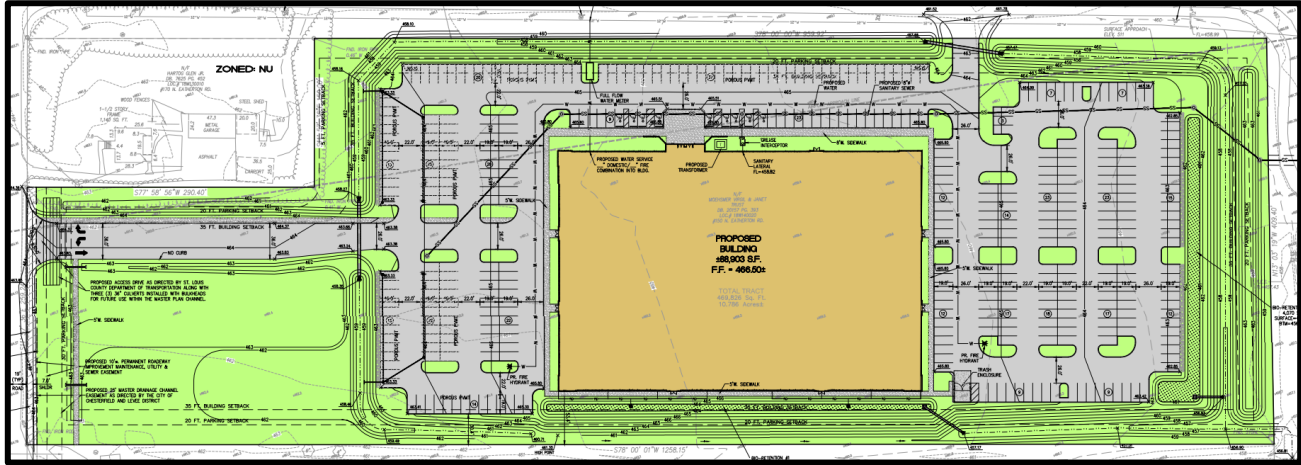


Figure 2: Color Site Development Plan

Circulation, Access and Parking

The subject site will be accessed via the primary access drive off of North Eatherton Road. The site will also have a cross access drive constructed to serve the site from the north. The site is bordered to the north by the Spirit of St Louis Golf Club's access drive. A new 5-foot sidewalk is proposed along the frontage of the site along North Eatherton Road. This sidewalk will connect to an internal sidewalk allowing for pedestrian access to and throughout the site. Parking is located on the west, north and east sides of the building. There are 411 parking spaces provided, 9 of which are handicapped spaces. The minimum number of required parking spaces for the proposed use is 405 and the maximum is 540 parking spaces.

Topography and Storm Water

The site is generally flat with only a few feet of grade change across the property. There are no retaining walls proposed. Storm water is managed through bioretention basins on site. The first is located just south of the proposed building and a second larger basin is located along the eastern perimeter of the site. Additionally, easements to accommodate future improvements according to the Chesterfield Valley Storm Water Master Plan are provided.

General Requirements for Building Design:

This request is to allow for the development of a 98,000 square foot gymnasium which will contain courts primarily used for basketball and volleyball. The gymnasium will include a 10,000 square foot mezzanine and be 40 feet in height at its highest point.

A. Scale

The proposed building is 40 feet in height at its highest point, and the maximum building height for this development is 40 feet per the site-specific ordinance. The main entrance to the building is on the north elevation and is pulled out from the main building mass. All entrances are designed to a human scale with simple horizontal entry canopies.

B. Design

The building is setback significantly from the main entrance at North Eatherton Road. The building's primary entrance faces north and is adjacent to the secondary entrance along the northern access drive.

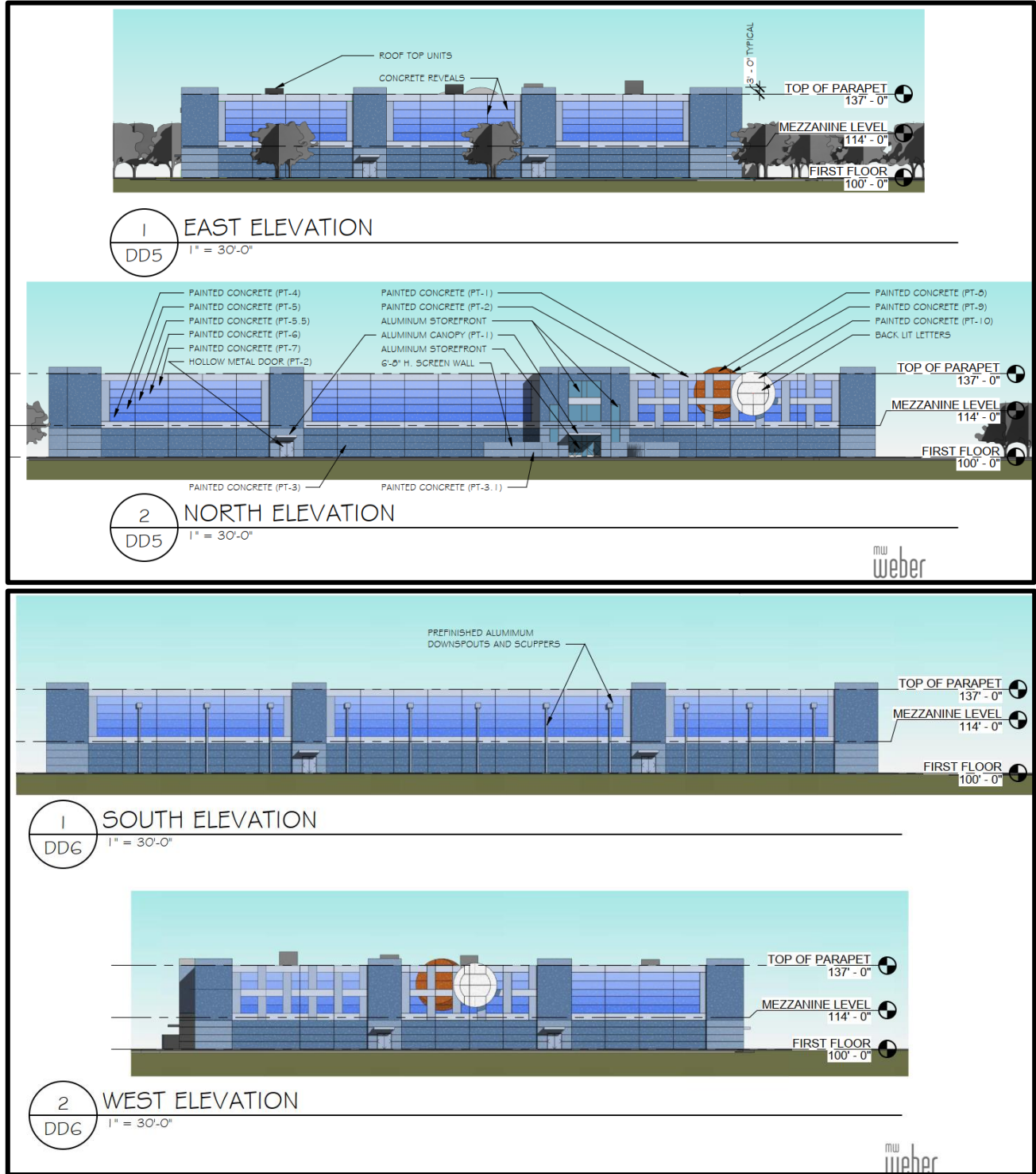


Figure 3: Color Exterior Elevations



Figure 4: Proposed rendering of the north elevation

C. Materials and Color

The proposed building is primarily comprised of painted concrete panels. The building also includes decorative reveals and aluminum storefronts with tinted glass. The color scheme consists of varying shades of blue and gray. The north and west elevations include architectural elements that support and reinforce the interior function as a gymnasium. The orange and white ball elements as well as the concrete horizontal weave that represents the netting reinforce the building's proposed use. These architectural designs are located on the elevations that face the site's entry points and serve as the entrances to the building.

D. Landscape Design and Screening

98% of the trees on the site are to be preserved. These trees are situated in the northwestern corner of the site and provide screening for the existing single-family residence that is located just northwest of the subject property. Additionally, the required number of trees to be planted throughout the site have been provided. There is a 30-foot landscape buffer along North Eatherton Road and there is sufficient parking lot landscaping provided. The variety of plantings have been selected from the City of Chesterfield's approved tree list. The plants chosen offer color and texture throughout the site. Flowering trees are proposed at the entries and will provide a color contrast to the proposed building. The trash enclosure and all ground level mechanical equipment are required to be screened by landscaping.

E. Signage

Signage is not part of the proposal before the Architectural Review Board and will be reviewed separately. Note that the applicant has proposed wall signage on the north and west elevations next to the architectural elements depicted.

F. Lighting

Lighting is planned in association with the proposed development as required by the City of Chesterfield. The proposed lighting plan consists of fixtures proposed in the parking area and mounted on the building facades. All proposed parking lot and street lighting will be full cut off, low profile, LED fixtures equipped with side shields at the property line to minimize glare and light trespass. Building entries will incorporate a combination of downlights, low profile recessed LED can lighting and wall washer fixtures. The accent lighting proposed will be reviewed by and require approval by the Plan Commission. In total, there are 40 proposed fixtures in the parking area, 15 wall-mounted fixtures across all elevations of the building, and 6 under-canopy lights at the main entrance.

DEPARTMENT INPUT

Be advised, this project is still going through development review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed. All recommendations made by the ARB will be included in Staff's report to the Planning Commission.

Staff requests review and recommendation on this submittal for 150 N. Eatherton Rd. (Chesterfield Fieldhouse).

MOTION

The following options are provided to the Architectural Review Board for consideration relative to this application:

- 1) "I move to forward the Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for 150 N. Eatherton Rd. (Chesterfield Fieldhouse), as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for 150 N. Eatherton Rd. (Chesterfield Fieldhouse) to the Planning Commission with the following recommendations..."

Attachments

1. Architectural Review Packet Submittal



Natalie Nye, AICP
Planner
City of Chesterfield
690 Chesterfield Parkway West
Chesterfield, MO 63017

Re: Chesterfield Fieldhouse (mwWA Project Number 20.086)

Ms. Nye,

Please accept the following responses to your comments (dated 2/24/2021) for the ARB submittal package for the above mentioned project.

Comment 27: Remove the wall signage from both the elevations and the renderings. Signage will be reviewed separately at a later date.

Response: We have removed the signage from both the elevations and the renderings and included those updated sheets herein. Please note we have also included the renderings showing the signage for reference purposes of the completed design, since the signage is integral to the building graphics.

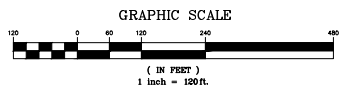
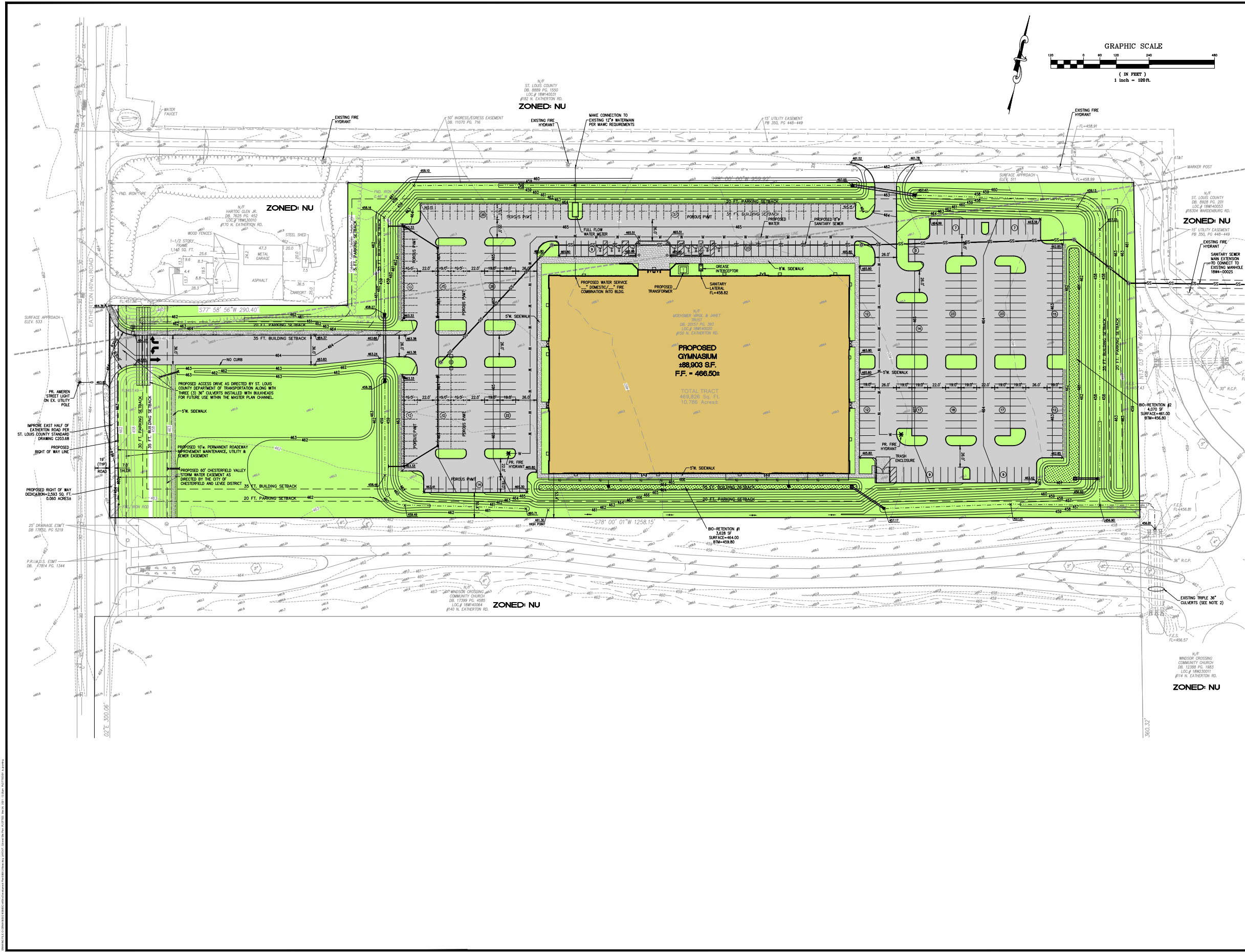
Comment 28: Provide a photo of a material sample board or more detailed photos of each material so that they can be carefully reviewed at the virtual ARB meeting.

Response: The requested photo of the material sample board has been included with this resubmittal package.

Please let us know should you have any questions.

Regards,

Mike Reardon
Project Manager



PREPARED BY:
STOCK & ASSOCIATES
 Consulting Engineers, Inc.

SITE DEVELOPMENT PLAN FOR
CHESTERFIELD FIELDHOUSE
 160 N. EATHERTON ROAD
 CHESTERFIELD, MISSOURI 63005

GEORGE M. STOCK E-26116
 CIVIL ENGINEER
 CERTIFICATE OF AUTHORITY
 NUMBER: 000996

REVISIONS:	

DATE	BY	CHECKED BY
03-04-2021	G.M.S.	G.M.S.

JOB NO. 216-2885-2
 SHEET # 18-W
 SHEET TITLE: COLORED SITE PLAN
 SHEET NO.: 1

Chesterfield Fieldhouse

Chesterfield, Missouri 63005



LOOKING NORTH



LOOKING EAST



NEIGHBOR TO SOUTHEAST



LOOKING SOUTH



LOOKING WEST



NEIGHBOR AT NORTHWEST

SITE PHOTOS

mw
weber
architects

636.519.1400

03/04/2021
20.086

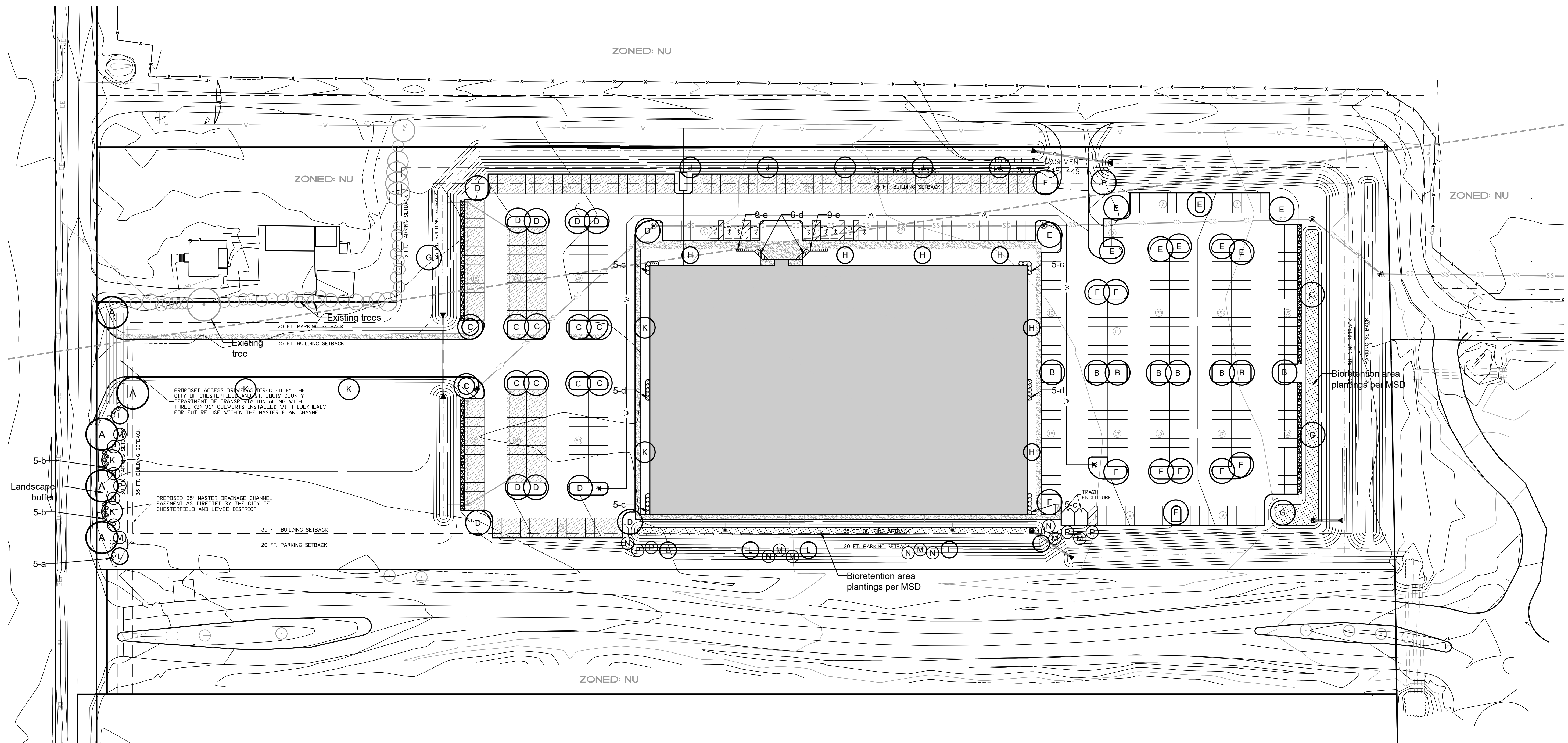


Jerald Saunders - Landscape Architect
MO License # LA-007

Consultants:

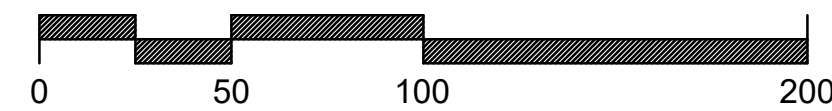
Chesterfield Fieldhouse

150 Eatherton Road
Chesterfield, Missouri



Landscape Plan

SCALE 1"=50'



ZONING DESIGNATION:
Present Zoning: NU "Non-Urban"

Total Site Area: 10.786 Acres±

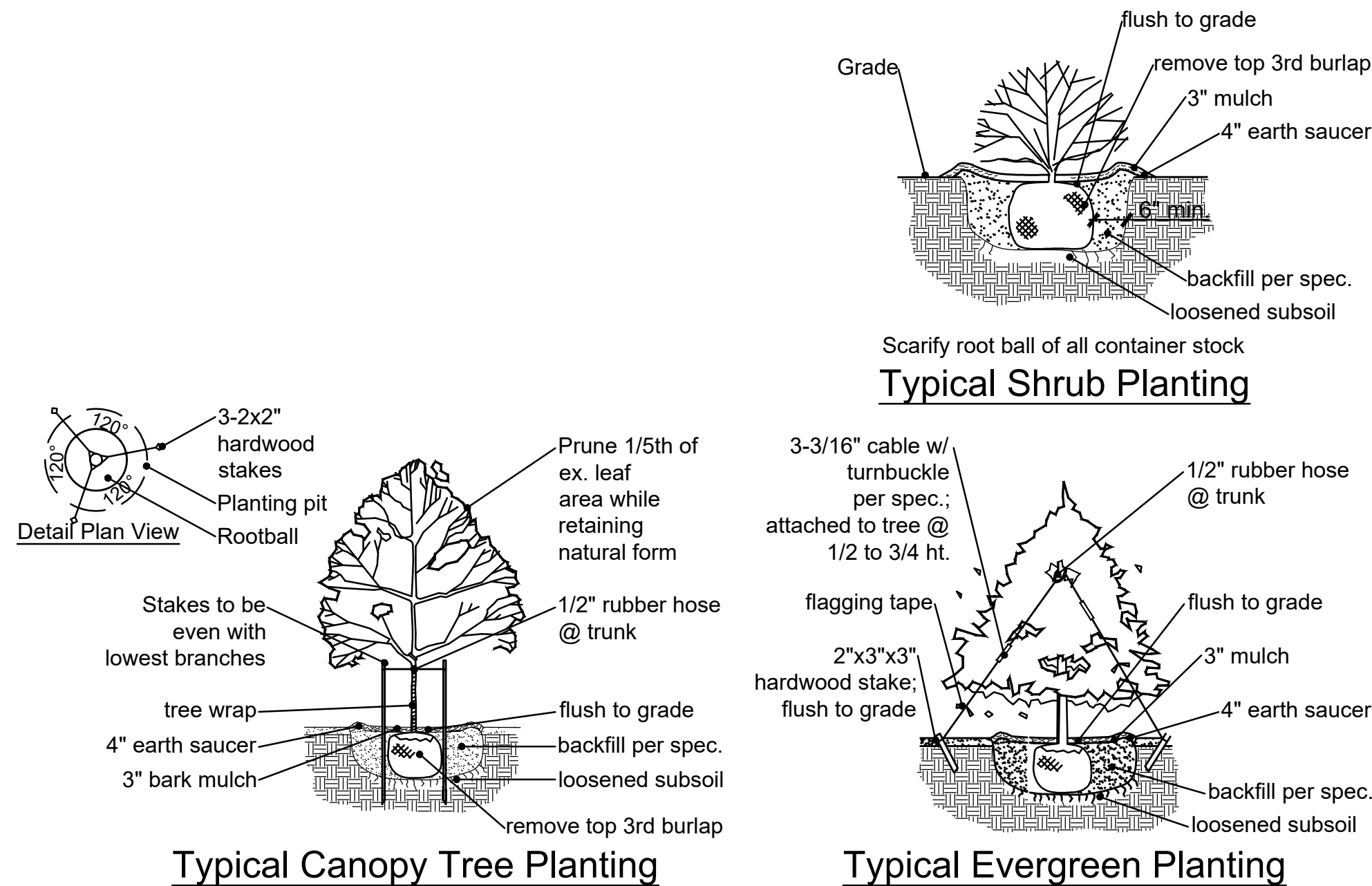
Floodplain Map Number: 29189C0145K

General Notes:

- All new landscape shall be irrigated with an automatic underground sprinkler system per the City of Chesterfield Unified Code Section 04-02.
- No proposed street trees shall be planted closer than three (3) feet to any curb per UDC.
- No proposed street trees shall be planted closer than twenty-five (25) feet of streetlights, street signs, and intersections per UDC.
- No street trees shall be planted within ten (10) feet of street inlets or manholes per UDC.

Landscape Notes:

- Mulch to be double ground bark mulch.
- All 3:1 or steeper slopes shall be seeded and have erosion control blanket. all other areas to be sodded with turf-type Tall Fescue.
- Topsoil in all disturbed lawn areas at 6" depth.
- Soil mix in all shrub beds at 8" depth.
- Provide underground irrigation system. Contractor to provide design-build drawings for review by Landscape Architect.



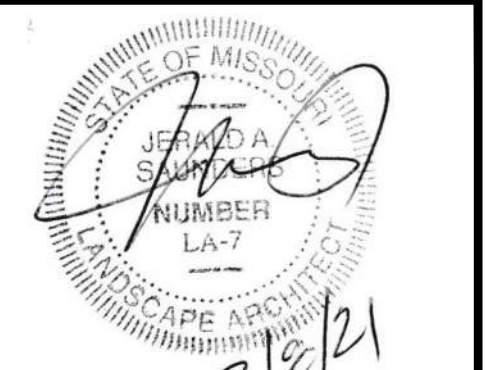
PLANTING SCHEDULE									
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	SIZE/GROWTH RATE	SLOW/MEDIUM GROWTH RATE %	MATURE HEIGHT (IN FEET)	
CANOPY-SHADE TREES									
A	5	Ulmus 'Valley Forge'	Valley Forge Elm	2.5" cal.	B&B	Lg/Medium	# %	70	
B	8	Gleditsia triacanthos f. inermis 'Skycole'	Skyline Honeylocust	2.5" cal.	B&B	Lg/Fast		45+	
C	10	Acer rubrum	Red Maple	2.5" cal.	B&B	Lg/Fast		45+	
D	11	Quercus rubra	Red Oak	2.5" cal.	B&B	Lg/M-Fast		45+	
E	9	Quercus bicolor	Swamp White Oak	2.5" cal.	B&B	Lg/Medium	# %	45+	
F	11	Liriodendron tulipifera	Tuliptree	2.5" cal.	B&B	Lg/Fast		45+	
G	4	Taxodium distichum	Bald Cypress	2.5" cal.	B&B	Lg/Medium	# %	45+	
UNDERSTORY-ORNAMENTAL TREES									
H	6	Amelanchier arborea	Serviceberry	2.5" cal.	B&B	Med/Slow-M	# %	25-30	
J	5	Carpinus betulus	Common Hornbeam	2.5" cal.	B&B	Med/Slow-M	# %	30-40	
K	6	Carpinus caroliniana	American Hornbeam	2.5" cal.	B&B	Small/Med	# %	20-35	
L	7	Syringa reticulata	Japanese Lilac Tree	2.5" cal.	B&B	Med/Slow-M	# %	25-30	
EVERGREEN TREES									
M	7	Picea abies	Norway Spruce	6' h.	B&B	Lg/Med	# %	45	
N	7	Picea glauca	White Spruce	6' h.	B&B	Med/Med	# %	30-40	
P	7	Picea pungens	Colorado Blue Spruce	6' h.	B&B	Med/Med	# %	30-40	
SHRUBS-GRASSES-PERENNIALS-ANNUALS-GROUNDCOVER									
a	10	Syringa x 'SMSJBP7'	Bloomerang Dark Purple Reblooming Lilac	18"	Container				
b	10	Ilex glabra	Inkberry	18"	Container				
c	20	Buxus microphylla 'Bulthouse'	Sprinter Boxwood	18"	Container				
d	16	Itea virginica	Itea	18"	Container				
e	18	Hypericum prolificum	St. John's Wort	18"	Container				
T.B.D.		Bioretention area plantings per MSD specifications		DCP	24" o.c.				
								Total	# %

Revisions:

Date	Description	No.

Drawn: JAS
Checked: JAS

Sheet Title: Landscape Plan
Sheet No: L1.01
Date: 2/8/21
Job #: 687.018

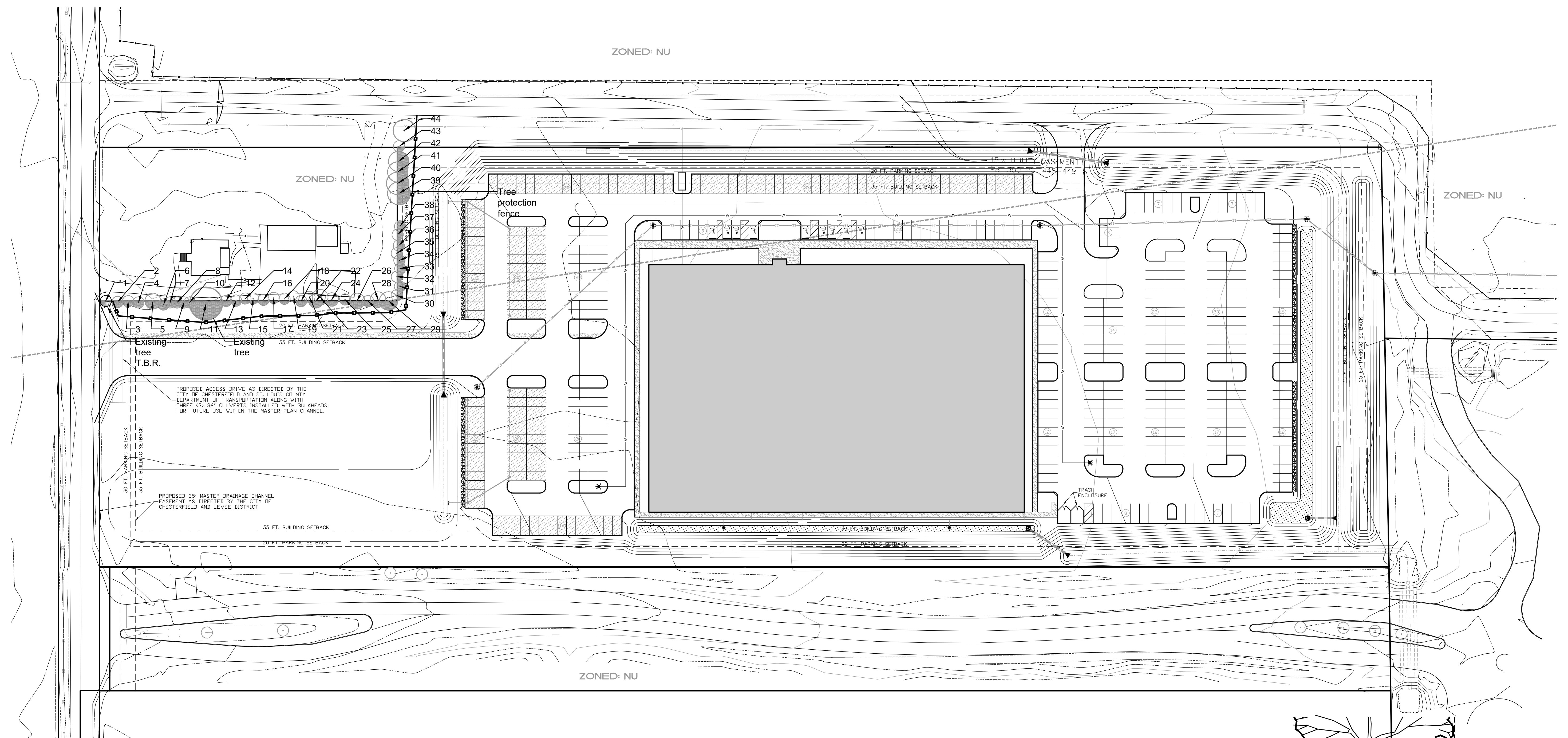


Jerald Saunders - Landscape Architect
MO License # LA-007

Consultants:

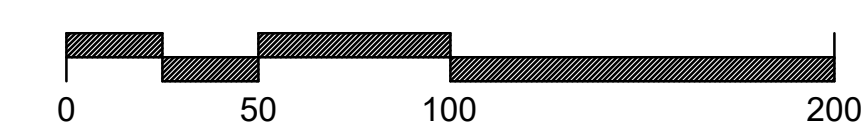
Chesterfield Fieldhouse

150 Eatherton Road
Chesterfield, Missouri



Tree Preservation Plan

SCALE 1"=50'



Zoning Designation:

Present Zoning: NU "Non-Urban"
Total Site Area: 10.786 Acres ±
Floodplain Map Number: 29189C0145K

Tree Canopy Totals:

Individual Tree Canopy Area (to be preserved) = 2,682 s.f. (0.062 acres)
Individual Tree Canopy Area (to be removed) = 45 s.f. (0.001 acres)
Total Existing Tree Canopy Area = 2,682 s.f. (0.062 acres) (98.35 % preserved)

Legend:

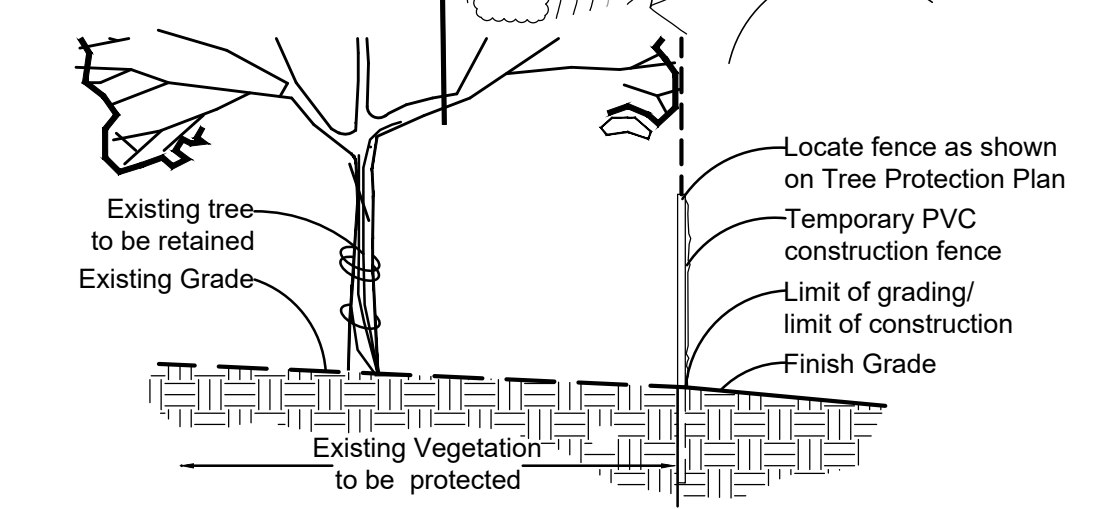
Symbol	Description
○	Existing individual tree
■	Existing tree canopy

Tree Protection Notes:

- Pre-construction meeting to be held on-site to include a presentation of tree protection measures to operators; construction supervisors; developer's representative; and city zoning inspector.
- Clearing Limits to be rough staked in order to facilitate location for installation of protection fencing. No early maintenance schedule is required.
- No clearing or grading shall begin in areas where the treatment and preservation measures have not been completed, including the installation of tree protection fencing as shown on the plan. Where necessary, Contractor may perform minor tree clearing prior to installing silt fencing and tree protection fencing provided they maintain tree protection area.
- Tree Protection Fencing shall be 4-foot high temporary plastic construction fence. No equipment traffic/parking, concrete washout, material storage or other such construction activity shall be permitted to penetrate the protection fencing or disrupt the Protected Woodland Area except for the removal of dead or invasive plant material. All ground plane in planting areas shall be mulched with hardwood bark mulch. Tree Protection Signage will be placed along the Protection Fencing as shown as the dashed line on the plan.
- Tree protection measures to be maintained throughout construction sequence.

Tree Protection Action Key Sequence:

- Survey limit of disturbance.
- Perform root pruning.
- Install tree protection fencing.
- Post tree protection signage on fence (No signs will be posted on trees).
- Maintain tree protection area as an off-limits zone.



Tree Protection Detail

150 N. Eatherton Road Tree Inventory

ID	Tree Name	DBH	Canopy Diam.	Condition Rating	Comment	Preserved	To Be Removed
1	Cedar	8	10	2	offsite		X
2	Cedar	8	10	2	offsite	X	
3	Cedar	8	10	2	offsite	X	
4	Cedar	8	10	2	offsite	X	
5	Mulberry	12	32	1	offsite	X	
6	Pine	8	12	2		X	
7	Pine	8	12	2		X	
8	Red Maple	10	20	2		X	
9	Pine	8	12	2		X	
10	Pine	8	12	2		X	
11	Silver Maple	30	30	2		X	
12	Cedar	8	10	2	offsite	X	
13	Pine	8	12	2	offsite	X	
14	Pine	8	12	2	offsite	X	
15	Cedar	8	10	2	offsite	X	
16	Pine	8	12	2	offsite	X	
17	Cedar	8	10	2	offsite	X	
18	Pine	8	12	2	offsite	X	
19	Pine	8	12	2	offsite	X	
20	Pine	8	12	2	offsite	X	
21	Pine	8	12	2	offsite	X	
22	Apple	10	24	1	offsite	X	

150 N. Eatherton Road Tree Inventory

ID	Tree Name	DBH	Canopy Diam.	Condition Rating	Comment	Preserved	To Be Removed
23	Pear	8	20	1	offsite	X	
24	Silver Maple	8	15	2	offsite	X	
25	Silver Maple	6	50	2	offsite	X	
26	Silver Maple	12	40	2	offsite	X	
27	Silver Maple	8	35	2	offsite	X	
28	Silver Maple	12	25	2	offsite	X	
29	Silver Maple	18	60	2	offsite	X	
30	Cedar	10	50	2	offsite	X	
31	Cedar	10	40	2		X	
32	Pine	12	45	2	offsite	X	
33	Pine	12	40	2		X	
34	Cedar	10	30	2		X	
35	Pine	10	45	2	offsite	X	
36	Cedar	8	50	2		X	
37	Cedar	8	50	3	offsite	X	
38	Pine	12	25	2		X	
39	Mulberry	15	40	2		X	
40	Silver Maple	12	20	2	offsite	X	
41	Silver Maple	12	20	2	offsite	X	
42	Silver Maple	12	20	2		X	
43	Cedar	10	12	2	offsite	X	
44	Walnut	12	32	2	offsite	X	

Tree Condition Rating

5 = Superior: Specimen quality with sound trunk, healthy bark, good limb structure and balance, no corrective pruning or maintenance needed, good foliage color, no insects or diseases, twigs showing excellent growth.

4 = Above Average: Similar to above except tree may have minor insect problems or need minor corrective maintenance.

3 = Average: Sound trunk and healthy bark, fair limb structure with minor broken branch stubs, moderate maintenance needed, insect or disease problem present, fair twig growth and leaf color.

2 = Fair: Similar to above plus evidence of trunk scars and early stages of decay present.

1 = Poor: Advanced stage of decline with major problems in roots, trunk, and foliage.

Revisions:

Date	Description	No.

Drawn: JAS
Checked: JAS

LOOMIS ASSOCIATES
landscape architects + planners
750 spirit of park drive, chesterfield, missouri 63005
t. 636-519-8668 www.loomis-associates.com

Missouri State Certificate of Authority #: LAC #000191

Sheet Title: Tree Preservation Plan
Sheet No: TPP
Date: 2/8/21
Job #: 687.018



Jerald Saunders - Landscape Architect
MO License # LA-007

Consultants:

Chesterfield Fieldhouse

150 Eatherton Road
Chesterfield, Missouri

Revisions:

Date	Description	No.

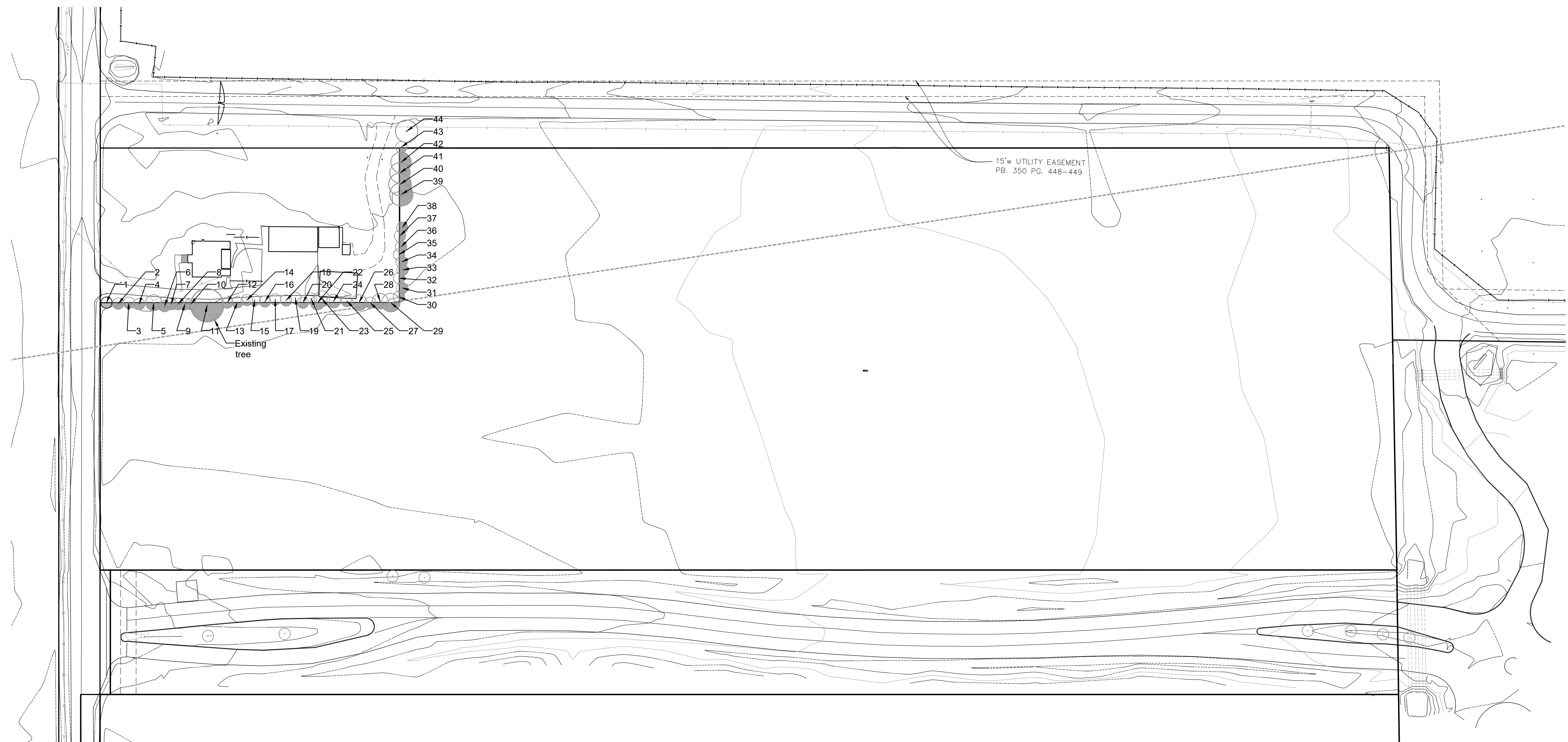
Drawn: JAS
Checked: JAS

LOOMIS ASSOCIATES
landscape architects + planners
750 spirit of park drive, chesterfield, missouri 63005
t. 636-519-6668 www.loomis-associates.com

Sheet Title: Tree Stand Delineation

Sheet No: TSD

Date: 2/8/21
Job #: 687.018



Zoning Designation:
Present Zoning: NU "Non-Urban"
Total Site Area: 10.786 Acres ±
Floodplain Map Number: 29189C0145K

Tree Stand Delineation Summary:
Existing on-site tree canopy is approximately 2,727 square feet.
Existing on-site and off-site trees located on both sides of the common boundary with the Hartog Property create the canopy.
Total Existing Tree Canopy Area = 2,727 s.f. (0.063 acres)

Legend:

Symbol	Description
#	Existing individual tree
	Existing tree canopy

150 N. Eatherton Road Tree Inventory

ID	Tree Name	DBH	Canopy Diam.	Condition	Rating	Comment
1	Cedar	8	10	2		offsite
2	Cedar	8	10	2		offsite
3	Cedar	8	10	2		offsite
4	Cedar	8	10	2		offsite
5	Mulberry	12	32	1		offsite
6	Pine	8	12	2		
7	Pine	8	12	2		
8	Red Maple	10	20	2		
9	Pine	8	12	2		
10	Pine	8	12	2		
11	Silver Maple	30	30	2		
12	Cedar	8	10	2		offsite
13	Pine	8	12	2		offsite
14	Pine	8	12	2		offsite
15	Cedar	8	10	2		offsite
16	Pine	8	12	2		offsite
17	Cedar	8	10	2		offsite
18	Pine	8	12	2		offsite
19	Pine	8	12	2		offsite
20	Pine	8	12	2		offsite
21	Pine	8	12	2		offsite
22	Apple	10	24	1		offsite

150 N. Eatherton Road Tree Inventory

ID	Tree Name	DBH	Canopy Diam.	Condition	Rating	Comment
23	Pear	8	20	1		offsite
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25	Silver Maple	6	50	2		offsite
26	Silver Maple	12	40	2		offsite
27	Silver Maple	8	35	2		offsite
28	Silver Maple	12	25	2		offsite
29	Silver Maple	18	60	2		offsite
30	Cedar	10	50	2		offsite
31	Cedar	10	40	2		
32	Pine	12	45	2		offsite
33	Pine	12	40	2		
34	Cedar	10	30	2		
35	Pine	10	45	2		offsite
36	Cedar	8	50	2		
37	Cedar	8	50	3		offsite
38	Pine	12	25	2		
39	Mulberry	15	40	2		
40	Silver Maple	12	20	2		offsite
41	Silver Maple	12	20	2		offsite
42	Silver Maple	12	20	2		offsite
43	Cedar	10	12	2		offsite
44	Walnut	12	32	2		offsite

Tree Condition Rating

5 = Superior: Speciman quality with sound trunk, healthy bark, good limb structure and balance, no corrective pruning or maintenance needed, good foliage color, no insects or diseases, twigs showing excellent growth.

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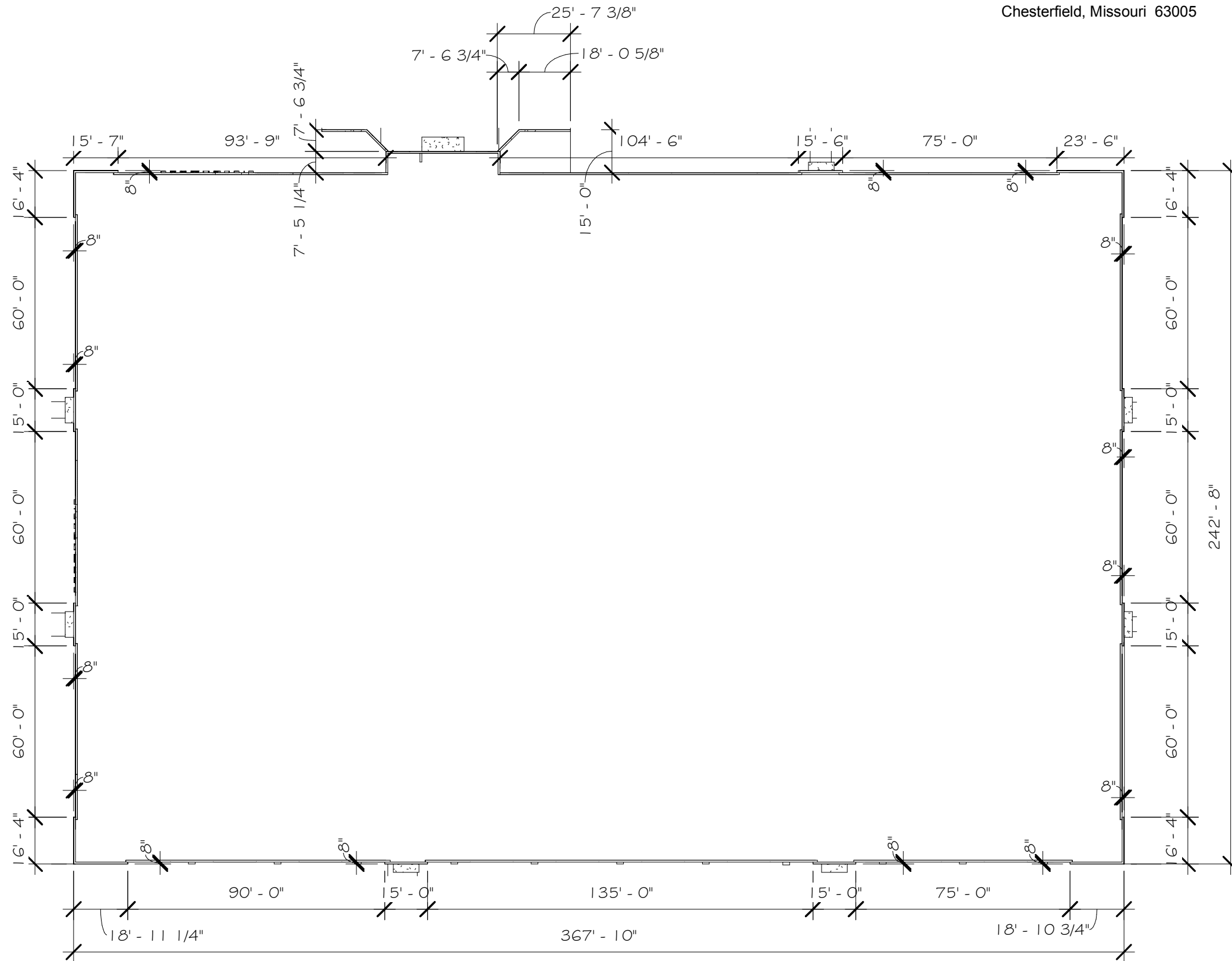
3 = Average: Sound trunk and healthy bark, fair limb structure with minor broken branch stubs, moderate maintenance needed, insect or disease problem present, fair twig growth and leaf color.

2 = Fair: Similar to above plus evidence of trunk scars and early stages of decay present.

1 = Poor: Advanced stage of decline with major problems in roots, trunk, and foliage.

Chesterfield Fieldhouse

Chesterfield, Missouri 63005



PLAN SECTION - BUILDING OFFSETS

1" = 40'-0"

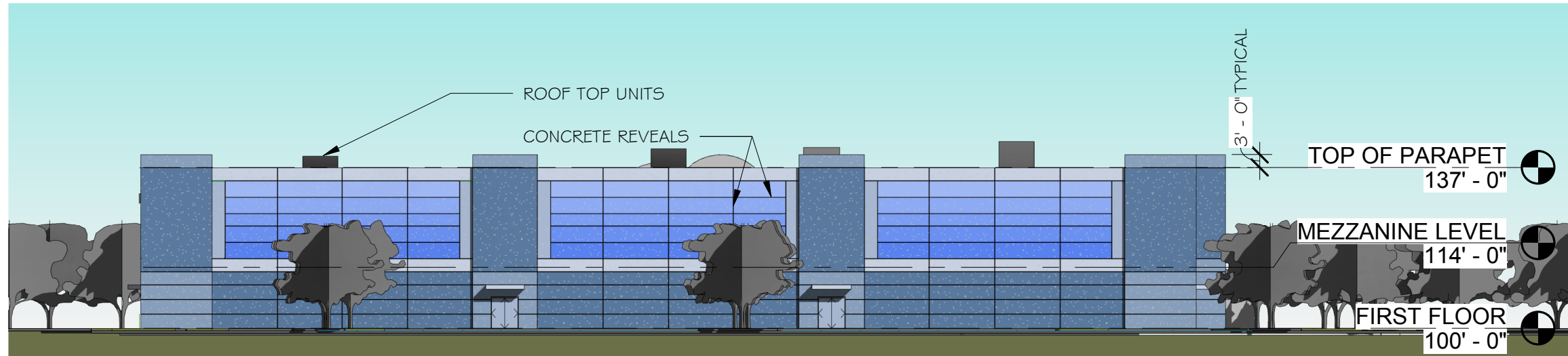
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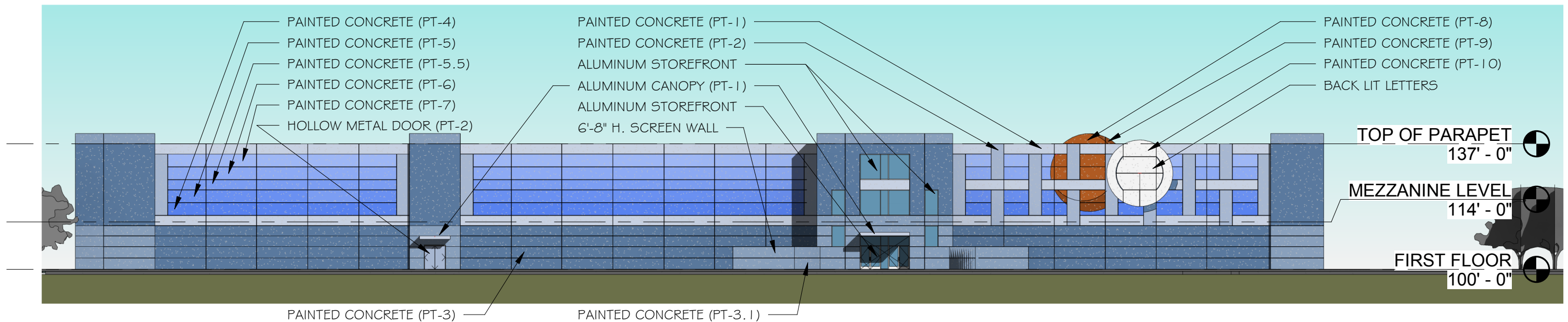
03/04/2021
20.086

Chesterfield Fieldhouse

Chesterfield, Missouri 63005



1 EAST ELEVATION
DD5 1" = 30'-0"



2 NORTH ELEVATION
DD5 1" = 30'-0"

EXTERIOR ELEVATIONS - N/E

1" = 30'-0"

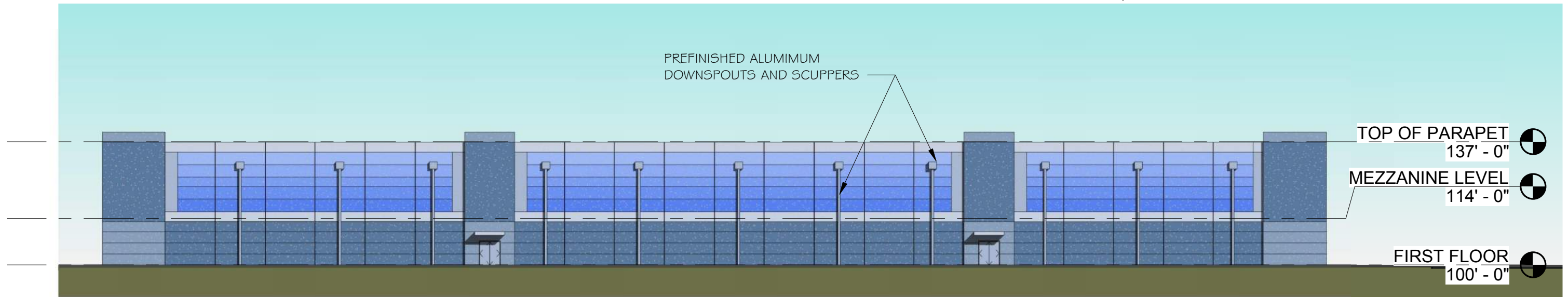
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architects

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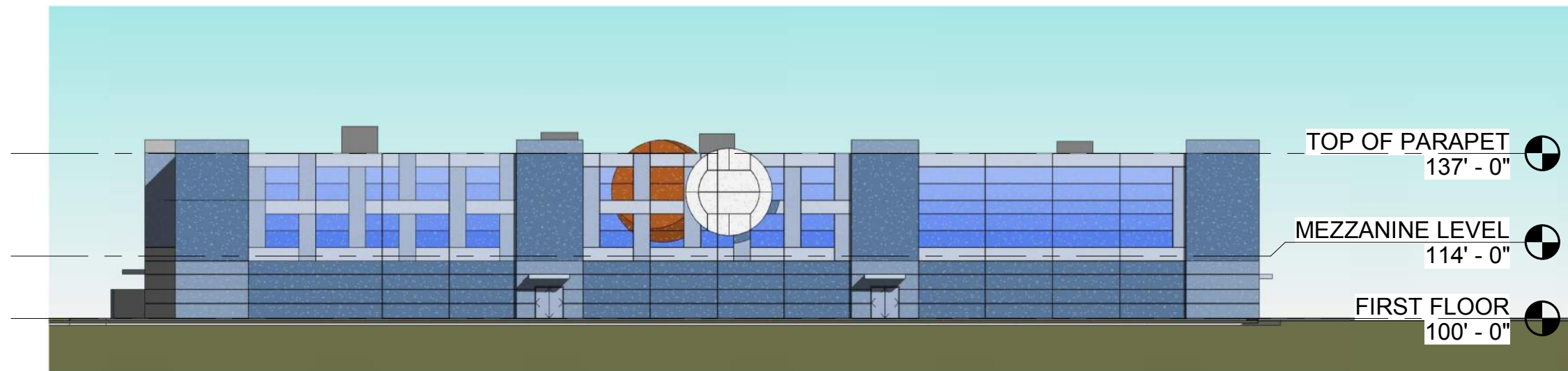
03/01/2021
20.086

Chesterfield Fieldhouse

Chesterfield, Missouri 63005



1 SOUTH ELEVATION
DD6 1" = 30'-0"



2 WEST ELEVATION
DD6 1" = 30'-0"

EXTERIOR ELEVATIONS- S/W

1" = 30'-0"

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20.086

Chesterfield Fieldhouse

Chesterfield, Missouri 63005



Rendered Image 1

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20.086

Chesterfield Fieldhouse

Chesterfield, Missouri 63005



Rendered Image 2

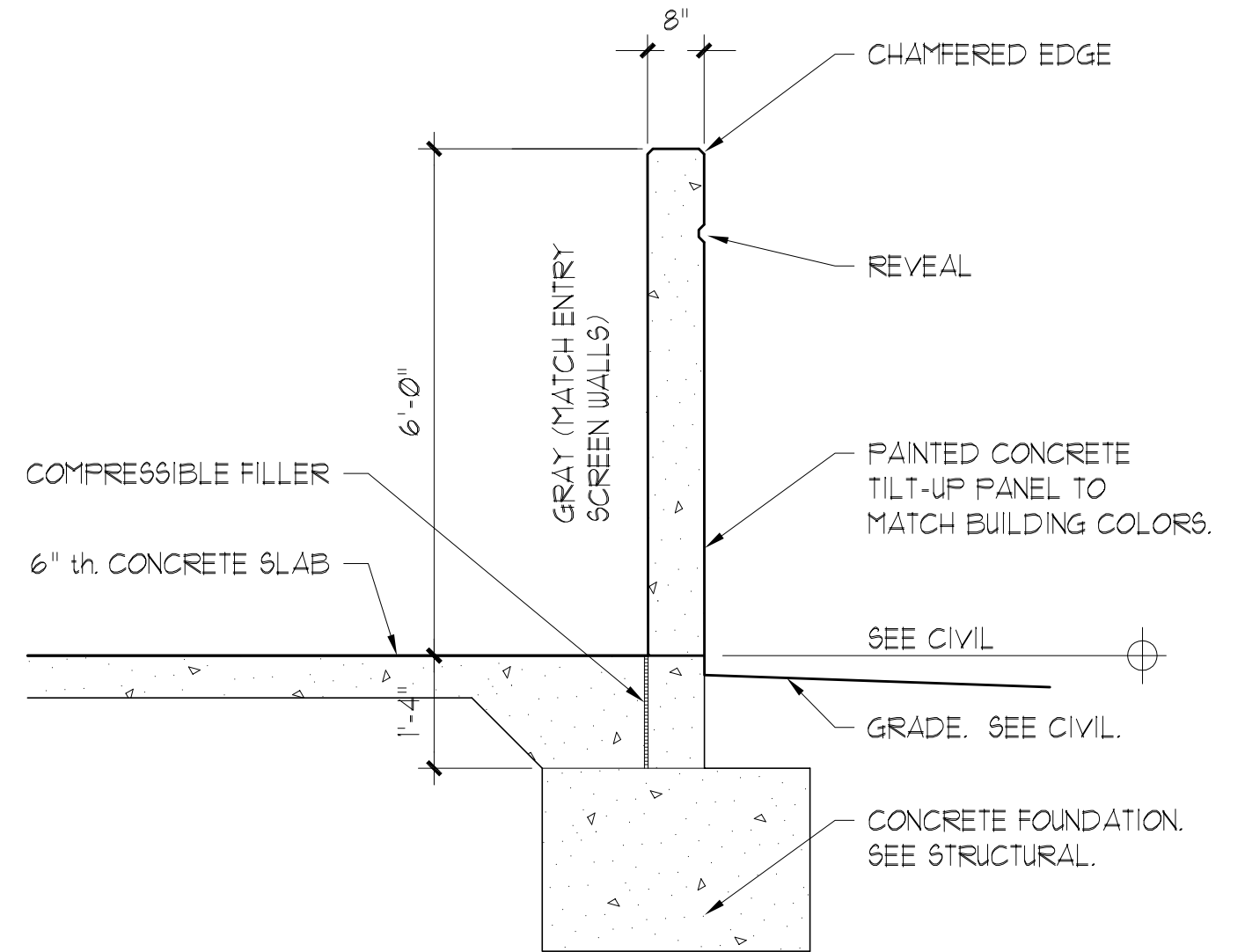
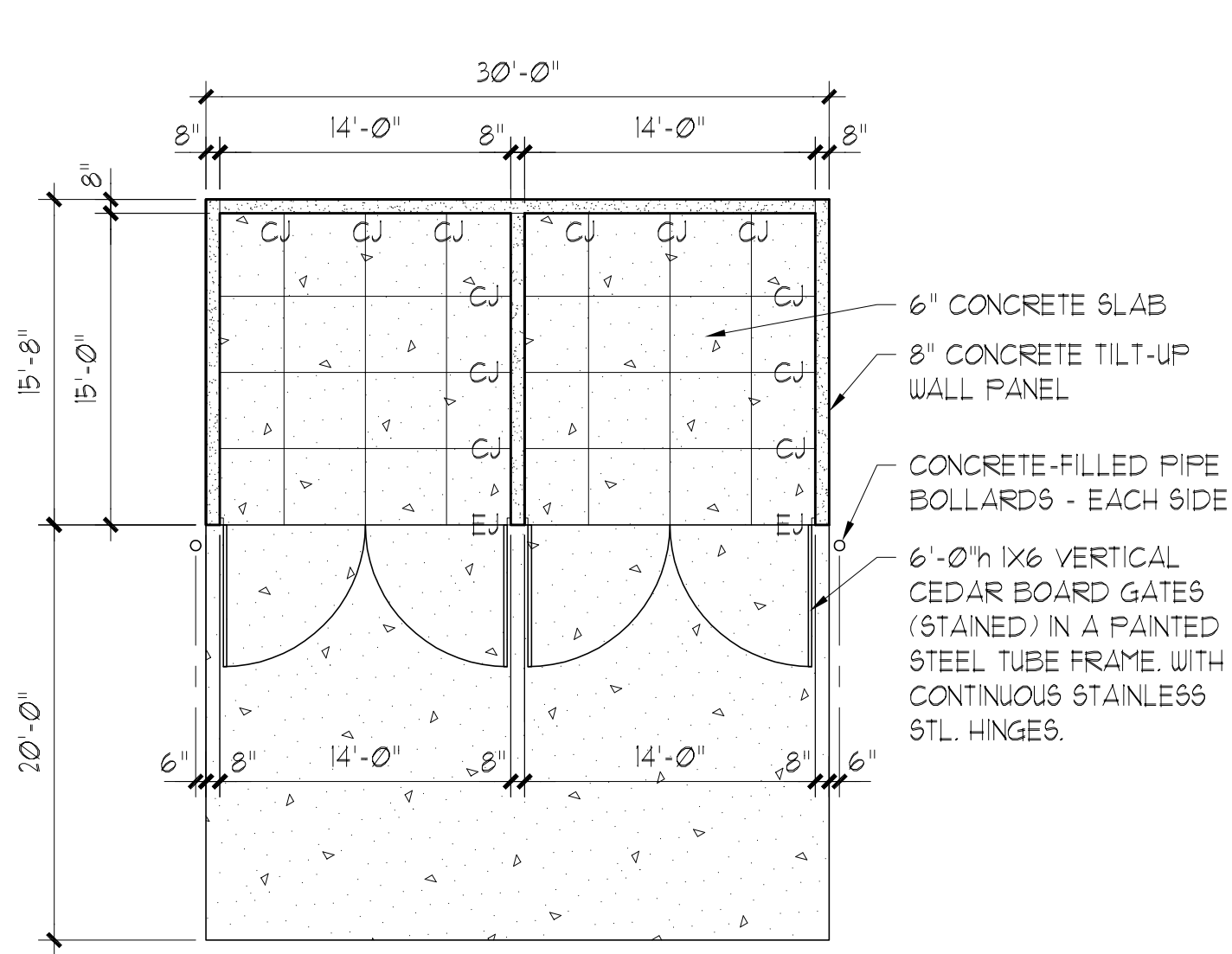
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weber
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636.519.1400

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20.086

Chesterfield Fieldhouse

Chesterfield, Missouri 63005



TRASH / RECYCLING ENCLOSURE PLAN
SCALE: 1/8" = 1'-0"

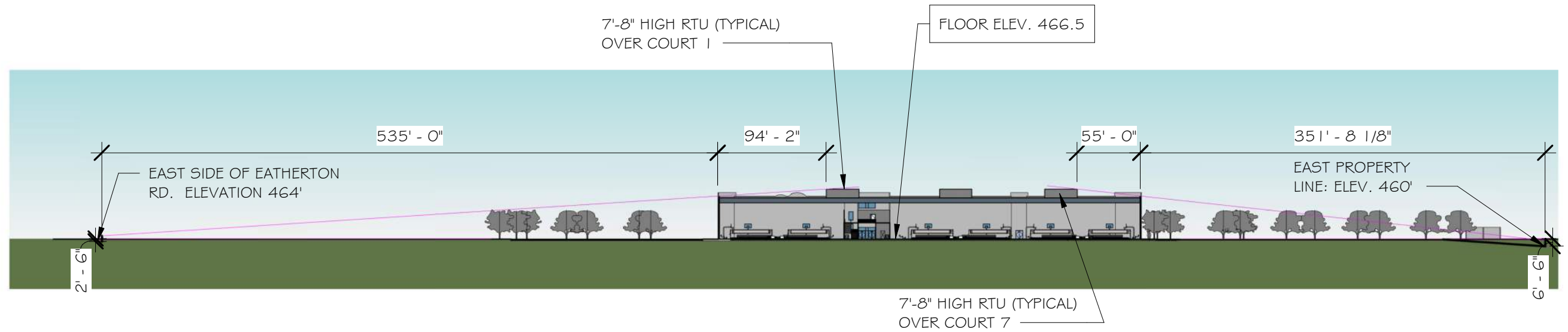
SECTION @ TRASH ENCLOSURE
SCALE: 1/2" = 1'-0"

PLAN & WALL SECTION AT TRASH / RECYCLING ENCLOSURE

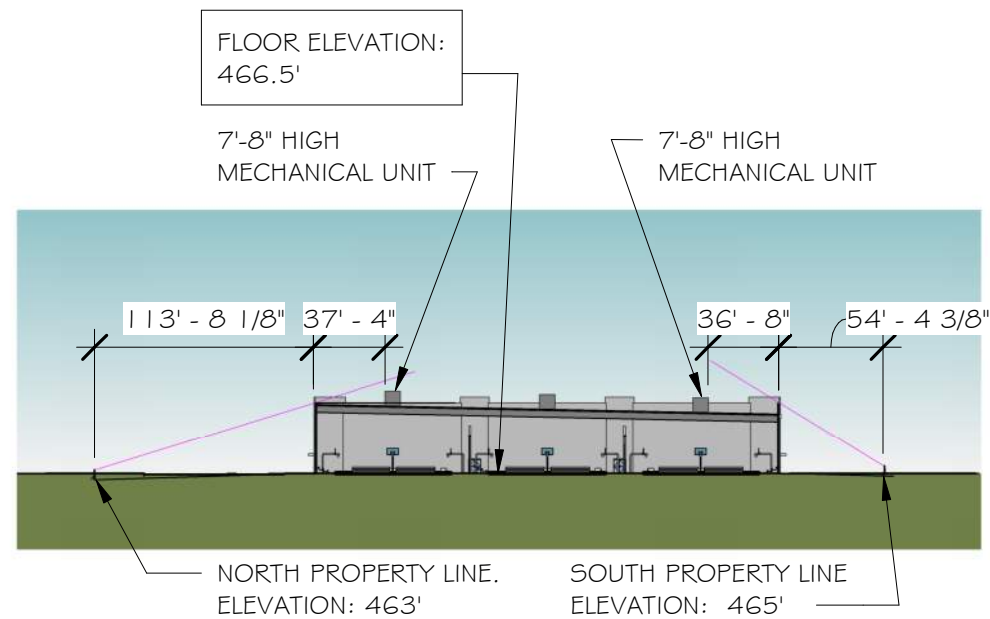
Scale: see above

Chesterfield Fieldhouse

Chesterfield, Missouri 63005



1 EAST-WEST SITE SECTION
DD13 1" = 100'-0"



2 NORTH-SOUTH SITE SECTION
DD13 1" = 100'-0"

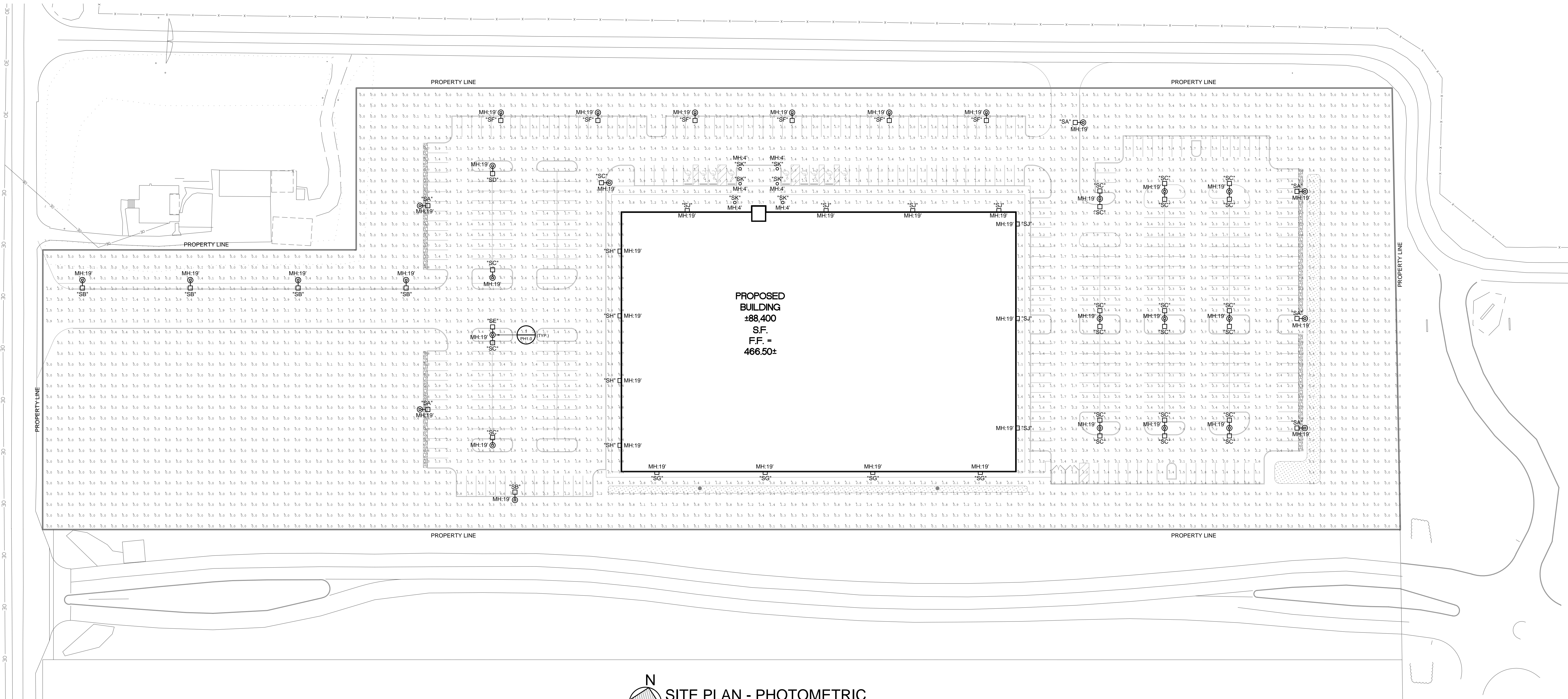
BUILDING SECTIONS

1" = 100'-0"



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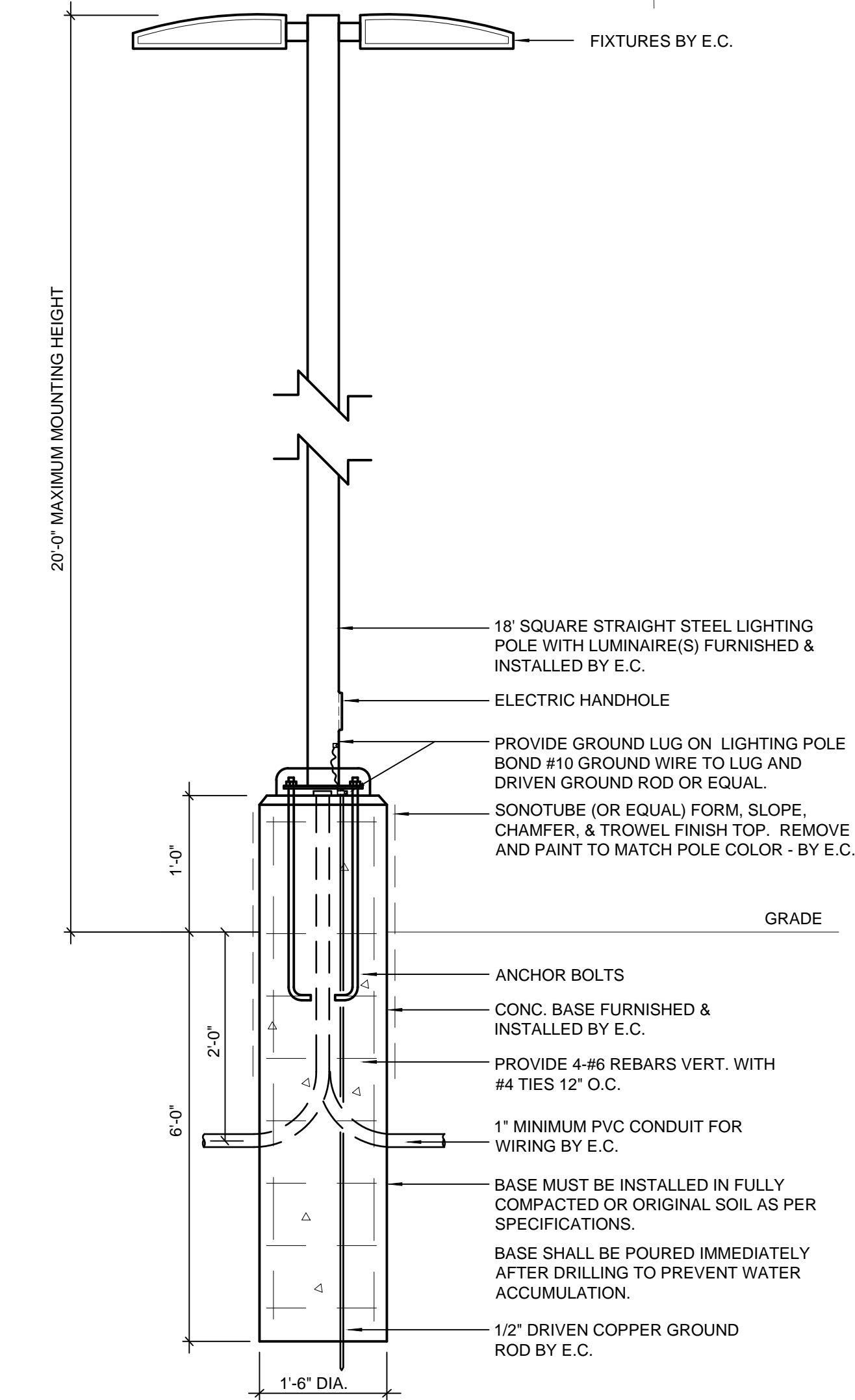
SITE PLAN - PHOTOMETRIC
SCALE: 1" = 40'-0"

GENERAL NOTES - PHOTOMETRIC PLAN

- A. SEE SHEET PH-1 FOR ALL LIGHT FIXTURE SPECIFICATIONS.
- B. ALL PARKING LOT POLE MOUNTED LIGHT FIXTURES ARE MOUNTED TO 18'-0" POLE ON TOP OF A 1'-0" CONCRETE POLE BASE FOR A TOTAL FIXTURE HEIGHT OF 19'-0" A.F.G.
- C. ALL WALL MOUNTED LIGHT FIXTURES ARE MOUNTED AT 19'-0" A.F.G.

Type	Qty	Label	Arrangement	Lamp	LLF	Description
SA	6	GLEON-SA2B-740-U-SL2-HSS	SINGLE	LED	0.950	GLEON-SA2B-740-U-SL2-HSS
SB	5	GLEON-SA2B-740-U-SL3-HSS	SINGLE	LED	0.950	GLEON-SA2B-740-U-SL3-HSS
SC	22	GLEON-SA2B-740-U-T4FT	SINGLE	LED	0.950	GLEON-SA2B-740-U-T4FT
SD	1	GLEON-SA2B-740-U-T4FT-HSS	SINGLE	LED	0.950	GLEON-SA2B-740-U-T4FT-HSS
SE	1	GLEON-SA2B-740-U-T4W	SINGLE	LED	0.950	GLEON-SA2B-740-U-T4W
SF	6	GLEON-SA2B-740-U-T4W-HSS	SINGLE	LED	0.950	GLEON-SA2B-740-U-T4W-HSS
SG	4	GWC-SALC-740-U-T2	SINGLE	LED	0.950	GWC-SALC-740-U-T2
SH	4	GWC-SALC-740-U-T4FT	SINGLE	LED	0.950	GWC-SALC-740-U-T4FT
SJ	7	GWC-SALC-740-U-T4W	SINGLE	LED	0.950	GWC-SALC-740-U-T4W
SK	6	ELMB20-HO-120277-40K-CR180-S1	SINGLE	LED	0.950	ELMB20-HO-120277-40K-CR180-S120-O-ND

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PARKING & DRIVE	Illuminance	Fc	2.30	7.6	0.6	3.83	12.67
SPILL LIGHT TO PROPERTY LINE	Illuminance	Fc	0.21	4.0	0.0	N.A.	N.A.

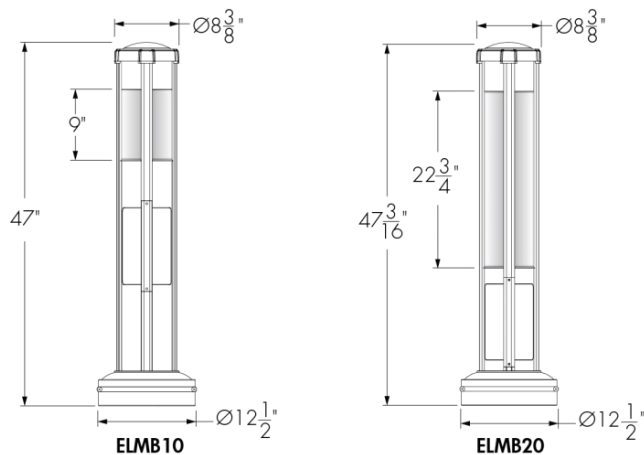


1 PH-1.0
PARKING LOT LIGHT STANDARD DETAIL
NO SCALE

Project Name Chesterfield Fieldhouse

Qty _____

Type SK Catalog / Part Number _____



Front view

Photometric Summary

Based on CRI 80, 4000K, On/off control

OUTPUT	RO-Regular Output		HO-High Output*		
	Housing	ELMB10	ELMB20	ELMB10	ELMB20
Delivered lumens (lm)		817	1179	1119	1615

Photometric performance is measured in compliance with IESNA LM-79-08.
*Estimated. Consult website for latest IES files.

Wattage Summary

WHITE LIGHT	Voltage	RO Regular Output [W]†	HO High Output [W]†
NO/DIM/DALI	120-277V	24	33
	347V	25	36
	480V	26	36
DMX/RDM	120-277V	26	34
	347V	25	36
	480V	26	36
LT	120-277V	27	36

COLOR CHANGING	Voltage	Wattage†
RGBW - DMX/RDM	120-480V	20
LT	120-277V	Consult factory

DYNAMIC WHITE	Voltage	Wattage†
DWH - DMX/RDM	120-277V	15
	347-480V	16
DWW - DIM 0-10V	120-277V	13
	347-480V	14
DWW - DMX/RDM	120-277V	15
	347-480V	16
DWW - DMX/RDM.1	120-277V	13
	347-480V	14
LT	120-277V	Consult factory

†Delivered wattage: +/- 10% tolerance.

Distribution



S120

Description

The Element Bollard is a flexible high-performance LED bollard for decorative lighting, public squares and access roads. Configurable, the sturdy luminaire provides a choice of outputs and finishes, offering you flexibility with exceptional continuity. The Element Bollard is also available in RGBW, Dynamic Warm and Dynamic White, allowing you to create a number of effects and looks, including static solid colors, dynamic color chases, pulses, and even rainbow cascades.

Electrical and control

Output (nominal lumens)	Regular output, High output
Voltage	120 volts, 208 volts, 240 volts, 277 volts, 347 volts, 480 volts
Control	On/Off control, 0-10V dimming, DALI dimming, DMX/RDM enabled, Dim to Warm via 0-10V (2700K to 2200K), Dim to Warm via single-channel DMX/RDM (2700K to 2200K), Lumentalk

Features

Color and Color Temperature	2200K, 2700K, 3000K, 3500K, 4000K, 5700K, Dynamic warm white (2200K to 3000K), Dynamic white (2700K to 6500K), Additive RGB + white 4000K
Distributions	Symmetric 120
Options	Surge protector
Warranty	5-year limited warranty

Performance

Color Rendering	CRI 70+, CRI 80+
Lumen Maintenance	L70 120,000hrs (Ta 25 °C [77 °F])

Physical

Housing Material	Aluminum
Lens Material	Moulded white and UV stabilized acrylic

Control

ON/OFF 0-10V DALI
DMXrDM DIM/DTW DMX/RDM1
lumen talk

Certifications



Weight	38.2 lbs
EPA	1.88 sq ft

Environmental

Environment	Dry / damp / wet location
Operating Temperature	-40 °F to 104 °F

Ratings

LED module	IP66 - Outdoor rated
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Accessories (order separately)

Control Boxes	DMX/RDM enabled (daisy chain or star configuration)
Control Systems	Lumentone™ 2, Pharos® kit, Consult control systems section for details
Diagnostic and Addressing Tools	LumenID, LumentalkID

Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison

GLEON Galleon

Area / Site Luminaire

Typical Applications

Outdoor • Parking Lots • Walkways • Roadways • Building Areas

Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3](#)
- Optical Distributions [page 4](#)
- Product Specifications [page 4](#)
- Energy and Performance Data [page 4](#)
- Control Options [page 9](#)

Product Certifications



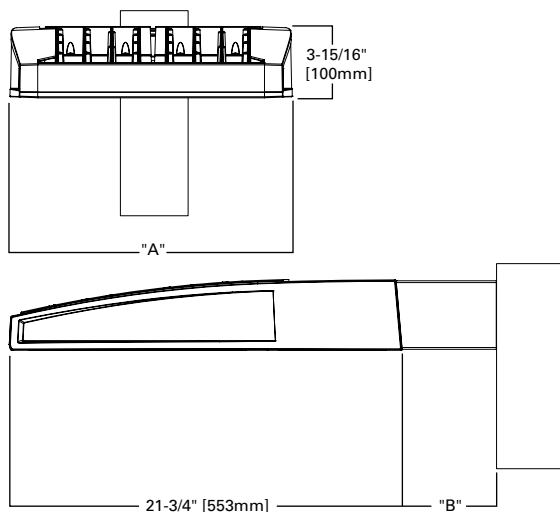
Product Features



Quick Facts

- Lumen packages range from 4,200 - 80,800 (34W - 640W)
- Efficacy up to 156 lumens per watt

Dimensional Details



Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Extended Arm Length ¹	"B" Quick Mount Arm Length	"B" Quick Mount Extended Arm Length
1-4	15-1/2"	7"	10"	10-5/8"	16-9/16"
5-6	21-5/8"	7"	10"	10-5/8"	16-9/16"
7-8	27-5/8"	7"	13"	10-5/8"	--
9-10	33-3/4"	7"	16"	--	--


NOTES:
For arm selection requirements and additional line art, see Mounting Details section.

Ordering Information

SAMPLE NUMBER: GLEON-SA4C-740-U-T4FT-GM

Product Family ^{1,2}	Light Engine		Color Temperature	Voltage	Distribution	Mounting	Finish
	Configuration	Drive Current					
GLEON=Galleon	SA1=1 Square SA2=2 Squares SA3=3 Squares SA4=4 Squares SA5=5 Squares ⁴ SA6=6 Squares SA7=7 Squares ³ SA8=8 Squares ³ SA9=9 Squares ⁶ SA0=10 Squares ⁶	A=600mA B=800mA C=1000mA D=1200mA ¹⁶	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm ^{14,16}	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V ^{7,8} 9=347V ⁷	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁹ MA=Mast Arm Adapter ¹⁰ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹¹ QMEA=Quick Mount Arm (Extended Length) ¹²	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
Options (Add as Suffix)			Controls and Systems Options (Add as Suffix)		Accessories (Order Separately)		
<p>DIM=External 0-10V Dimming Leads^{19,20} F=Single Fuse (120, 277 or 347V Specify Voltage) FF=Double Fuse (208, 240 or 480V Specify Voltage) 20K=20kV UL 1449 fused surge protective device 2L=Two Circuits^{17,18} HA=50°C High Ambient HSS=Installed House Side Shield²⁸ GRSBK=Glare Reducing Shield, Black²³ GRSWH=Glare Reducing Shield, White²³ LCP=Light Square Trim Painted to Match Housing²⁷ MT=Installed Mesh Top TH=Tool-less Door Hardware CC=Coastal Construction finish³ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right CE=CE Marking²⁹ AHD145=After Hours Dim, 5 Hours²² AHD245=After Hours Dim, 6 Hours²² AHD255=After Hours Dim, 7 Hours²² AHD355=After Hours Dim, 8 Hours²² DALI=DALI Drivers</p>			<p>BPC=Button Type Photocontrol PR=NEMA 3-PIN Photocontrol Receptacle PR7=NEMA 7-PIN Photocontrol Receptacle²¹ MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height²⁴ MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height²⁴ MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height²⁴ MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height^{24,25} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height^{24,25} MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height^{24,25} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height²⁴ MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height²⁴ ZW=WaveLinX Module and 4-PIN Receptacle ZD=WaveLinX Module with DALI driver and 4-PIN Receptacle SWPD4XX=WaveLinX Sensor Only, 7'-15'^{13,32,33} SWPD5XX=WaveLinX Sensor Only, 15'-40'^{13,32,33} WOBXX=WaveLinX Sensor with Bluetooth, 7'-15'^{13,32} WOFXX=WaveLinX Sensor with Bluetooth, 15'-40'^{13,32} LWR-LW=Enlightened Sensor, 8'-16' Mounting Height²⁶ LWR-LN=Enlightened Sensor, 16'-40' Mounting Height²⁶ DIM10-MS/DIM-L08=Synapse Occupancy Sensor (<8' Mounting)¹⁹ DIM10-MS/DIM-L20=Synapse Occupancy Sensor (9'-20' Mounting)¹⁹ DIM10-MS/DIM-L40=Synapse Occupancy Sensor (21'-40' Mounting)¹⁹</p>		<p>OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor²⁴ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares GLEON-QM=Quick Mount Arm Kit¹¹ GLEON-QMEA=Quick Mount Extended Arm Kit¹² LS/HSS=Field Installed House Side Shield^{28,30} LS/GRSBK=Glare Reducing Shield, Black^{23,30} LS/GRSWH=Glare Reducing Shield, White^{23,30} LS/PFS=Perimeter Shield, Black¹⁵ WOLC-7P-10A=WaveLinX Outdoor Control Module^{19,31} SWPD4-XX=WaveLinX Wireless Sensor, 7'-15' Mounting Height^{13,19,32,33} SWPD5-XX=WaveLinX Wireless Sensor, 15'-40' Mounting Height^{13,19,32,33}</p>		
<p>NOTES:</p> <ol style="list-style-type: none"> Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. DesignLights Consortium[®] Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. Not available with TH option. Not compatible with MS/4-LXX or MS/1-LXX sensors. Not compatible with extended quick mount arm (QMEA) or extended quick mount arm (QMEA). Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA). Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 480V must utilize Wye system only. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems.) May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. Factory installed. Maximum 8 light squares. Maximum 6 light squares. Requires ZW or ZD receptacle. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. Set of 4 pcs. One set required per Light Square. Not available with HA option. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in SA2 through SA4 requires a larger housing, normally used for SA5 or SA6. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. Not available with Enlightened wireless sensors. Cannot be used with other control options. Low voltage control lead brought out 18" outside fixture. Not available if any "MS" sensor is selected. Motion sensor has an integral photocell. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. Not for use with T4FT, T4W or SL4 optics. See IES files for details. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. Replace X with number of Light Squares operating in low output mode. Enlightened wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities. Not available with house side shield (HSS). Not for use with 5NQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected. CE is not available with the LWR, MS, MS/X, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only. One required for each Light Square. Requires PR7. Replace XX with sensor color (WH, BZ or BK.) WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. 							

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology 	D=Standard Dome Camera H=Hi-Res Dome Camera Z=Remote PTZ Camera	C=Cellular, No SIM A=Cellular, AT&T V=Cellular, Verizon S=Cellular, Sprint R=Cellular, Rogers W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking

Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison

GWC Galleon Wall

Wall Mount Luminaire

Typical Applications

Exterior Wall • Walkway

Interactive Menu

- Ordering Information [page 2](#)
- Product Specifications [page 2](#)
- Optical Configurations [page 3](#)
- Energy and Performance Data [page 4](#)
- Control Options [page 6](#)

Product Certifications



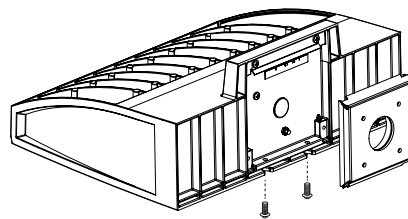
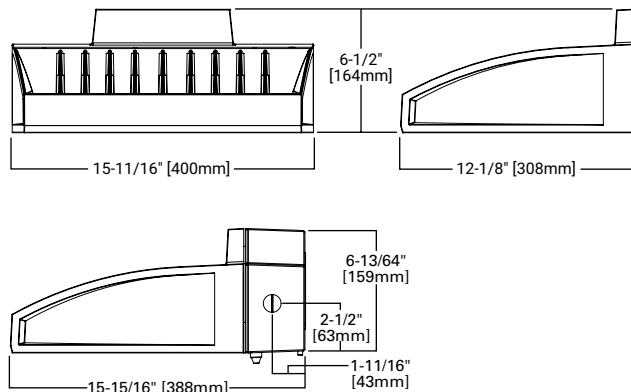
Quick Facts

- Choice of thirteen high-efficiency, patented AccuLED Optics™
- Downward and inverted wall mounting configurations
- Eight lumen packages from 3,215 up to 17,056
- Efficacies up to 154 lumens per watt

Connected Systems

- WaveLinx
- Enlighted

Dimensional Details



Ordering Information

SAMPLE NUMBER: GWC-SA2C-740-U-T4FT-GM

Product Family ¹	Light Engine		Color Temperature	Voltage	Distribution	Finish
	Configuration	Drive Current				
GWC=Galleon Wall	SA1=1 Square SA2=2 Squares ²	A=615mA B=800mA C=1000mA D=1200mA ⁴	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm ^{3,4}	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V ^{6,7} 9=347V ⁶	T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I 5NQ=Type V Square Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
Options (Add as Suffix)		Controls and Systems Options (Add as Suffix)		Accessories (Order Separately)		
FF=Single Fused (120, 277 or 347V. Must Specify Voltage) FF=Double Fused (208, 240 or 480V. Must Specify Voltage) 10K=10kV Surge Module 20K=20kV UL 1449 Fused Surge Protective Device DIM=External 0-10V Dimming Leads ^{9,10} CBP=Battery Pack with Back Box, Cold Weather Rated ^{2,4,14,33} CBP-CEC=Battery Pack with Back Box, Cold Weather Rated, CEC compliant ^{2,4,14} L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right HSS=Factory Installed House Side Shield ²³ GRSBK=Factory Installed Glare Shield, BK ^{4,27} GRSWH=Factory Installed Glare Shield, WH ^{4,27} UPL=Uplight Housing ¹³ HA=50°C High Ambient ¹² LCF=Light Square Trim Plate Painted to Match Housing ²² MT=Factory Installed Mesh Top CC=Coastal Construction finish ⁵ CE=CE Marking and Small Terminal Block ²⁴ AHD145=After Hours Dim, 5 Hours ¹⁶ AHD245=After Hours Dim, 6 Hours ¹⁶ AHD255=After Hours Dim, 7 Hours ¹⁶ AHD355=After Hours Dim, 8 Hours ¹⁶ DALI=DALI Driver ¹¹		BPC=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PR=NEMA 3-PIN Twistlock Photocontrol Receptacle PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle ¹⁵ MS-LXX=Motion Sensor for On/Off Operation ^{17,18,19} MS/DIM-LXX=Motion Sensor for Dimming Operation ^{17,18,19} ZW=WaveLinX-enabled 4-PIN Twistlock Receptacle ^{29,30} ZD=WaveLinX Module with DALI driver and 4-PIN Receptacle ^{29,30} SWPD4XX=WaveLinX Sensor Only, 7'-15' ^{31,32} SWPD5XX=WaveLinX Sensor Only, 15'-40' ^{31,32} WOBXX=WaveLinX Sensor with Bluetooth, 7'-15' ^{31,32} WOFXX=WaveLinX Sensor with Bluetooth, 15'-40' ^{31,32} LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height ^{19,20,21} LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16'-40' Mounting Height ^{19,20,21}		OA/RA1013=Photocontrol Shorting Cap ²⁸ OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V ²⁸ OA/RA1201=NEMA Photocontrol - 347V ²⁸ OA/RA1027=NEMA Photocontrol - 480V ²⁸ MA1252=10kV Circuit Module Replacement MA1059XX=Thru-branch Back Box (Must Specify Color) LS/HSS=Field Installed House Side Shield ^{23,25} LS/GRSBK=Glare Shield, Black ^{8,25,27} LS/GRSWH=Glare Shield, White ^{8,25,27} LS/PFS=Perimeter Shield, Black FSIR-100=Wireless Configuration Tool for Occupancy Sensor ¹⁷ WOLC-7P-10A=WaveLinX Outdoor Control Module (7-pin) ^{26,29} SWPD4-XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height ^{29,30,31,32} SWPD5-XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height ^{29,30,31,32}		
NOTES: 1. DesignLight Consortium® Qualified. Refer to www.designlights.org, Qualified Products List under Family Models for details. 2. Two light squares with CBP options limited to 25°C. Not available in combination with sensor options at 1200mA. 3. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 4. Not available with HA option. 5. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 6. Require the use of a step down transformer. Not available in combination with sensor options at 1200mA. 7. 480V must use Wye system only. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 8. Reserved. 9. Cannot be used with other control options. 10. Low voltage control leads extended 18" from fixture. 11. Not available in 1200mA. When used with CBP or HA options, only available with single light square. 12. Not available in 1200mA, UPL or CBP options. Available with single light square. 13. Not available with SL2, SL3, SL4, HA, CBP, PR or PR7 options. 14. Operates a single light square only. Operates at -20°C to +40°C. Backbox is non-IP rated. Control option limited to BPC. 15. Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls. 16. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. 17. The FSIR-100 configuration tool is required to adjust parameters such as high and low modes, sensitivity, time delay and cutoff. Consult your lighting representative at Cooper Lighting Solutions for more information. 18. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting). 19. Includes integral photosensor. 20. Enlighted wireless sensors are factory installed requiring network components in appropriate quantities. 21. Bronze sensor is shipped with Bronze fixtures. White sensor shipped on all other housing color options. 22. Not available with HSS or GRS options. 23. Not for use with 5NQ, 5MQ, 5WQ or RW optics. The light square trim plate is painted black when the HSS option is selected. 24. CE is not available with the 1200, DALI, LWR, MS, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only. 25. One required for each light square. 26. Requires PR7. 27. Not for use with T4FT, T4W or SL4 optics. 29. Cannot be used in conjunction with additional photocontrol or other controls systems (BPC, PR, PR7, MS, LWR). 30. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. 31. Requires ZW or ZD receptacle. 32. Replace XX with sensor color (WH, BZ, or BK). 33. Specify 120V or 277V.						

Product Specifications

Construction

- Driver enclosure thermally isolated from optics for optimal thermal performance
- Die-cast aluminum heat sinks
- IP66 rated housing
- 1.5G vibration rated

Optics

- Patented, high-efficiency injection-molded AccuLED Optics technology
- 13 optical distributions
- IDA Certified (3000K CCT and warmer only)

Electrical

- LED driver assembly mounted for ease of maintenance
- Standard with 0-10V dimming
- Optional 10kV or 20kV surge module
- Suitable for operation in -40C to 40C ambient environments. Optional 50C high ambient (HA) configuration.

Mounting

- Gasketed and zinc plated rigid steel mounting attachment
- "Hook-N-Lock" mechanism for easy installation

Finish

- Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

Warranty

- Five-year warranty

Steel Poles



SSS SQUARE STRAIGHT STEEL

Catalog #		Type
Project		
Comments		Date
Prepared by		

FEATURES

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
- 10'-39' mounting heights
- Drilled or tenon (specify)

DESIGN CONSIDERATIONS

Wind induced vibrations resulting from steady, unidirectional winds and other aerodynamic forces, as well as vibration and coefficient of height factors for non-grounded mounted installations (e.g., installations on bridges or buildings) are not included in this document. The information contained herein is for general guidance only and is not a replacement for professional judgement. Consult with a professional, and local and federal standards, before ordering to ensure product is appropriate for the intended purpose and installation location. Also, please review Cooper Lighting Solutions Light Pole White Paper for risk factors and design considerations. [Learn more.](#)

Specifications and dimensions subject to change without notice. Consult your lighting representative at Cooper Lighting Solutions or visit www.cooperlighting.com for available options, accessories and ordering information.

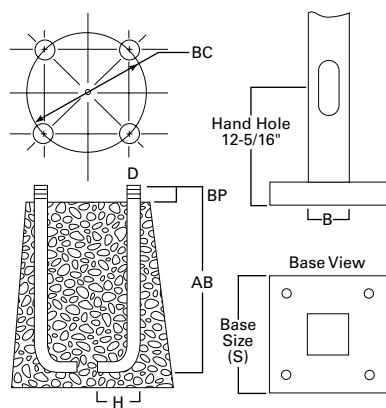
ORDERING INFORMATION

SAMPLE NUMBER: SSA5A20SFM1XG

Product Family	Shaft Size (Inches) ¹	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
SSS=Square Straight Steel	4=4" 5=5" 6=6"	A=0.120" M=0.188" X=0.250"	10=10' 15=15' 20=20' 25=25' 30=30' 35=35' 39=39'	S=Square Steel Base	F=Dark Bronze G=Galvanized Steel J=Summit White K=Carbon Bronze L=Dark Platinum R=Hartford Green S=Silver T=Graphite Metallic V=Grey W=White X=Custom Color Y=Black	2=2-3/8" O.D. Tenon (4" Long) 3=3-1/2" O.D. Tenon (5" Long) 4=4" O.D. Tenon (6" Long) 9=3" O.D. Tenon (4" Long) 6=2-3/8" O.D. Tenon (6" Long) 7=4" O.D. Tenon (10" Long) A=Type A Drilling C=Type C Drilling E=Type E Drilling F=Type F Drilling G=Type G Drilling J=Type J Drilling K=Type K Drilling M=Type M Drilling N=Type N Drilling R=Type R Drilling S=Standard Upsweep Arm ⁶ Z=Type Z Drilling	1=Single 2=2 at 180° 3=Triple ² 4=4 at 90° 5=2 at 90° X=None	X=None 2=2' 3=2.5' 4=4' 6=6' 8=8'	A=1/2" Tapped Hub ³ B=3/4" Tapped Hub ³ C=Convenience Outlet ⁴ E=GFCI Convenience Outlet ⁴ G=Ground Lug H=Additional Hand Hole ⁵ V=Vibration Dampener

NOTES: 1. All shaft sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Tapped Hub is located 5' below the pole top and on the same side of pole as hand hole, unless specified otherwise. 4. Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. 5. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified. 6. Arm must be ordered separately.

ANCHORAGE DATA



See technical information.

Pole	Template Number	Bolt Number	Bolt Circle (inches)	Number of Bolts	Bolt Size (inches)
SSS4	TMP1	AB1	8.5 - 11.0	4	3/4 x 25 x 3
SSS5	TMP1	AB1	11.0	4	3/4 x 25 x 3
SSS6	TMP2	AB3	12.5	4	1 x 36 x 4

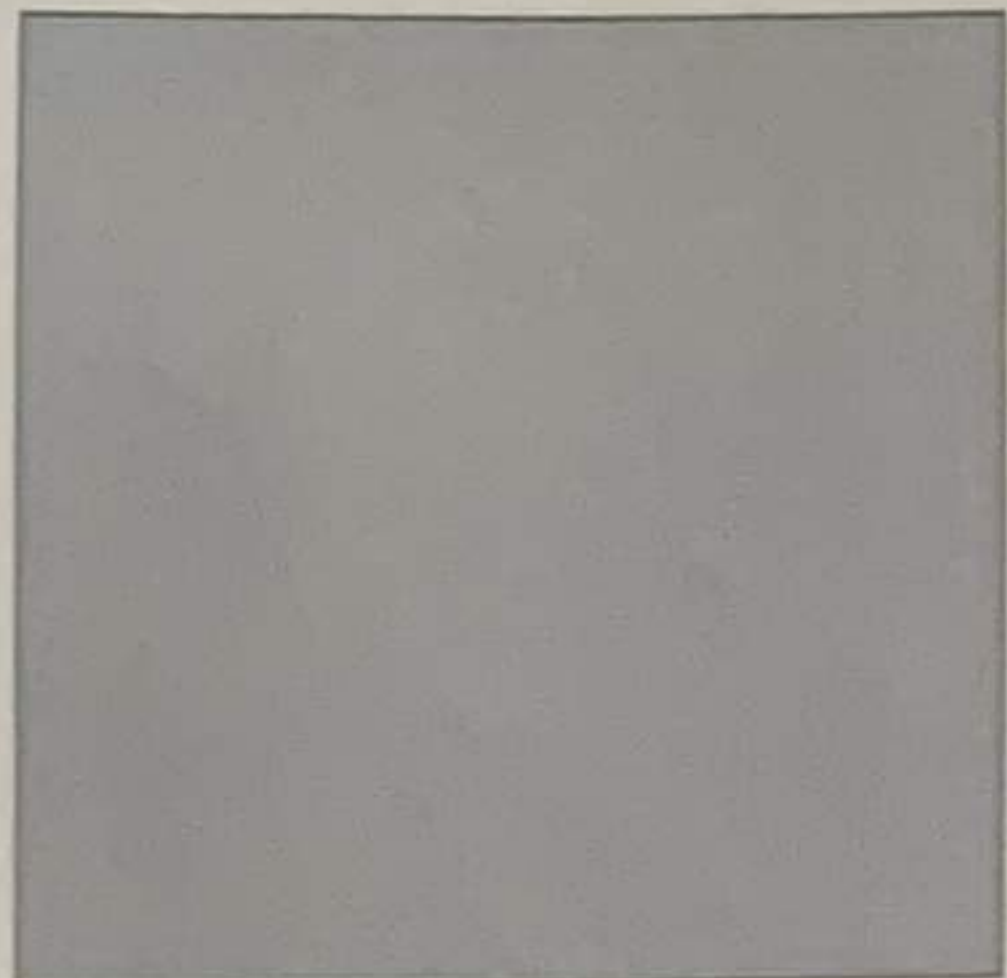
Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number ^{1,2}	Wall Thickness (Inches)	Base Square ³ (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection ³ (Inches)	Shaft Size ³ (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) ⁴				Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	
MH			S	BC	BP	B	D x AB x H						
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	30.0	22.0	17.0	13.0	100
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	15.0	11.5	8.7	6.5	100
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	8.7	5.9	3.9	2.5	150
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	15.4	11.1	7.9	5.5	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.7	1.7	0.3	--	200
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	9.3	6.0	3.5	1.6	200
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.9	6.1	3.5	1.2	200
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	4.7	2.1	--	--	200
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	10.4	6.4	3.5	1.5	200
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.3	1.4	--	--	200
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	19.0	13.0	8.7	5.6	200
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.8	2.8	--	--	200
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	12.8	7.2	3.7	1.0	200
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.5	11.0	6.8	3.5	200
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.3	3.0	--	--	300
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	13.0	7.0	3.7	0.8	300

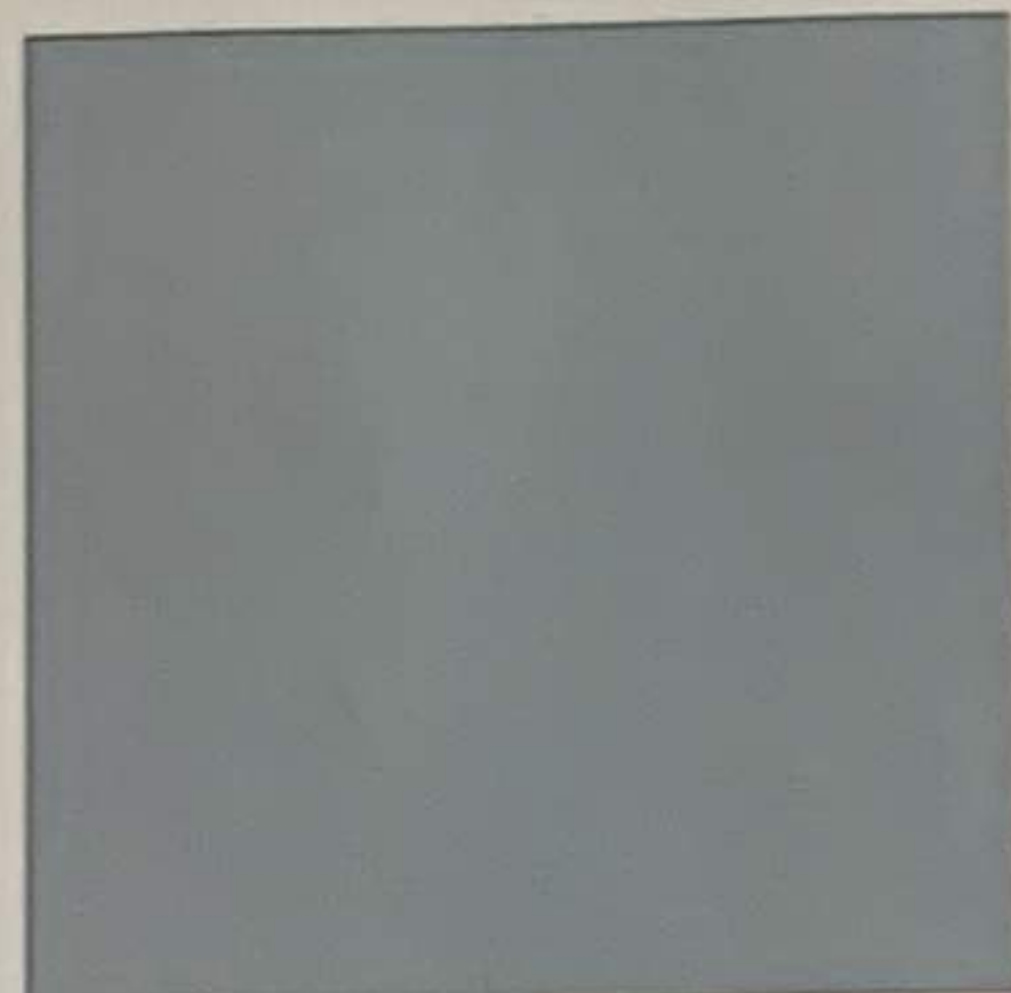
Effective Projected Area (Two Feet Above Pole Top)

Mounting Height (Feet)	Catalog Number ^{1,2}	Wall Thickness (Inches)	Base Square ³ (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection ³ (Inches)	Shaft Size ³ (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) ⁴				Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	
MH			S	BC	BP	B	D x AB x H						
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	23.0	17.5	14.0	11.0	100
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	13.4	10.0	7.5	5.7	100
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	7.6	5.2	3.4	2.1	150
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	13.8	9.9	7.1	4.9	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.4	1.6	0.3	--	200
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	8.5	5.5	3.2	1.5	200
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.1	5.6	3.0	1.2	200
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	1.8	--	--	--	200
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	9.6	5.9	1.9	0.2	200
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.1	1.3	--	--	200
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	18.5	12.5	8.4	5.3	200
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.5	2.4	--	--	200
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	11.8	7.0	3.5	1.0	200
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.0	10.5	6.4	3.4	200
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.0	2.4	--	--	300
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	12.0	6.7	3.0	0.5	300

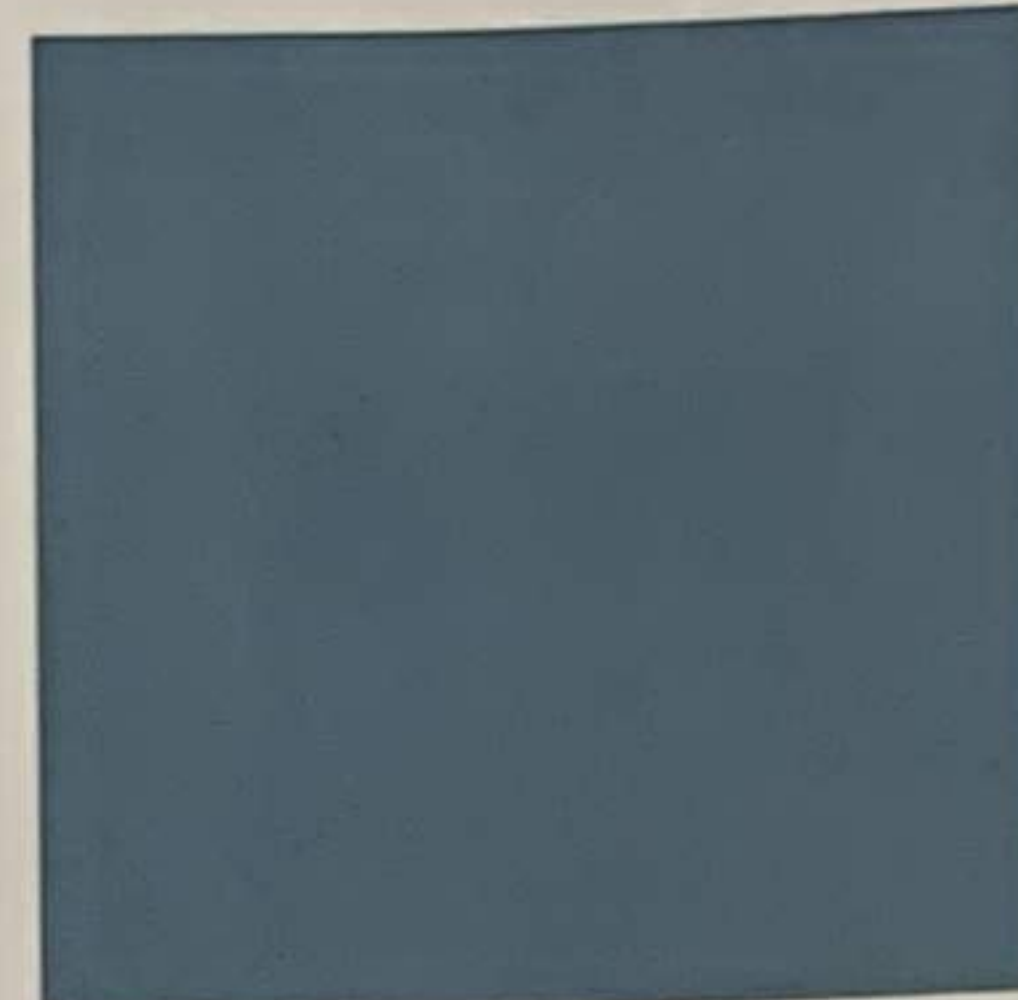
- NOTES:
 1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained.
 2. Tenon size or machining for rectangular arms must be specified. Hand hole position relative to drill location.
 3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.
 4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.



PT-1 LIGHT GRAY



PT-2 MEDIUM GRAY



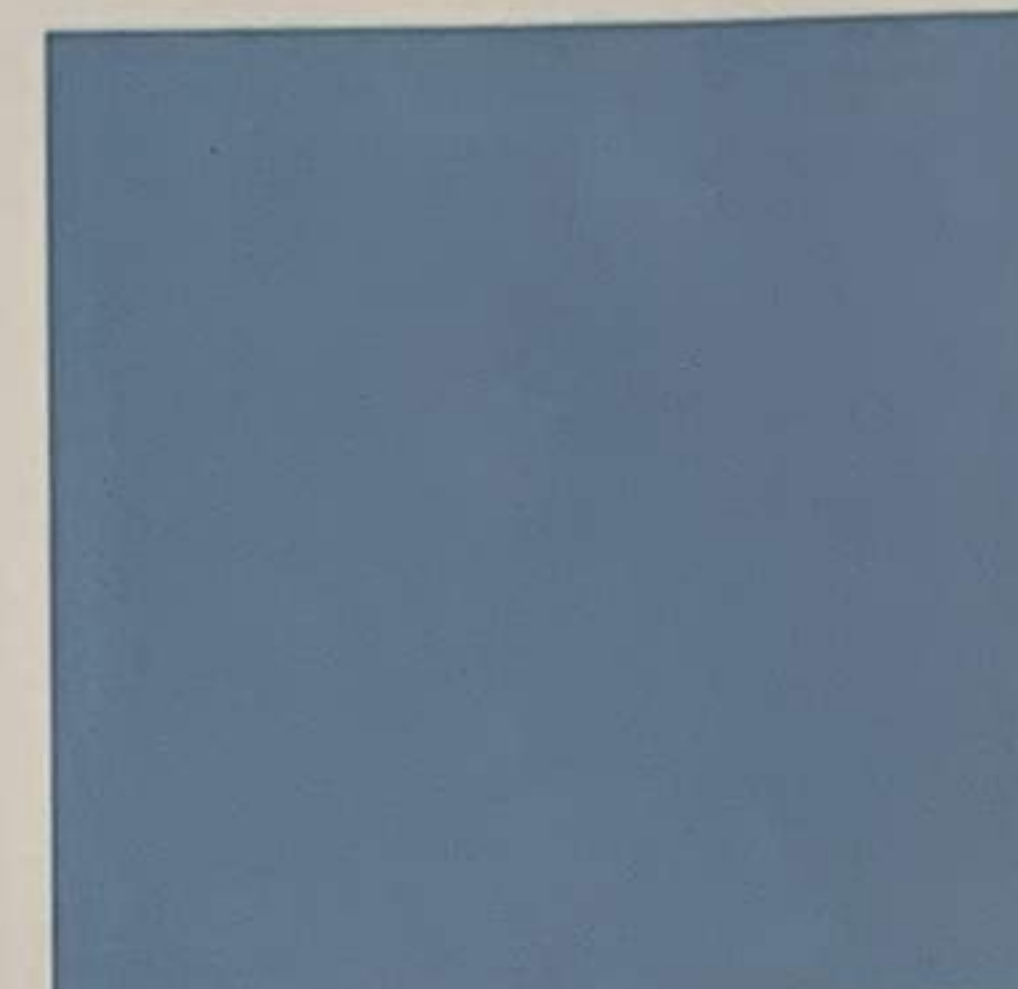
PT-3 DARK GRAY



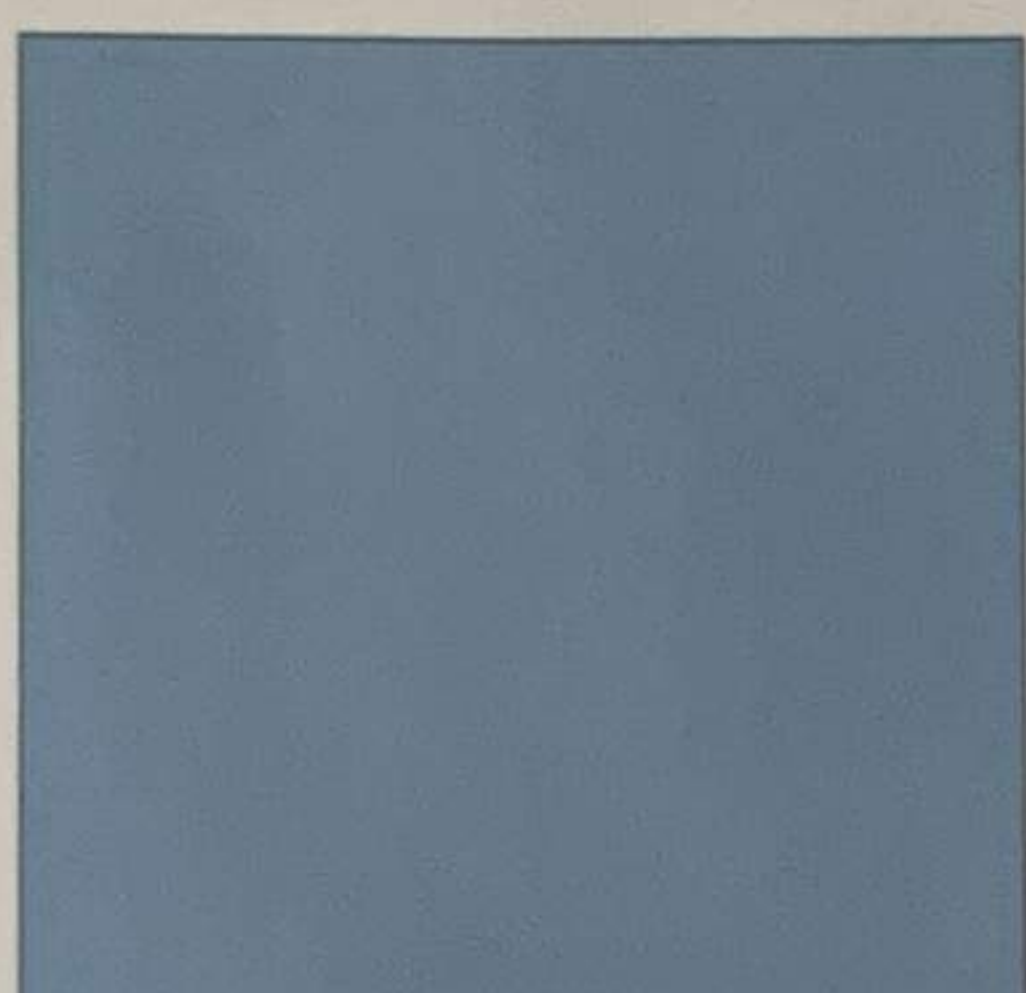
PT-3.1 MEDIUM GRAY



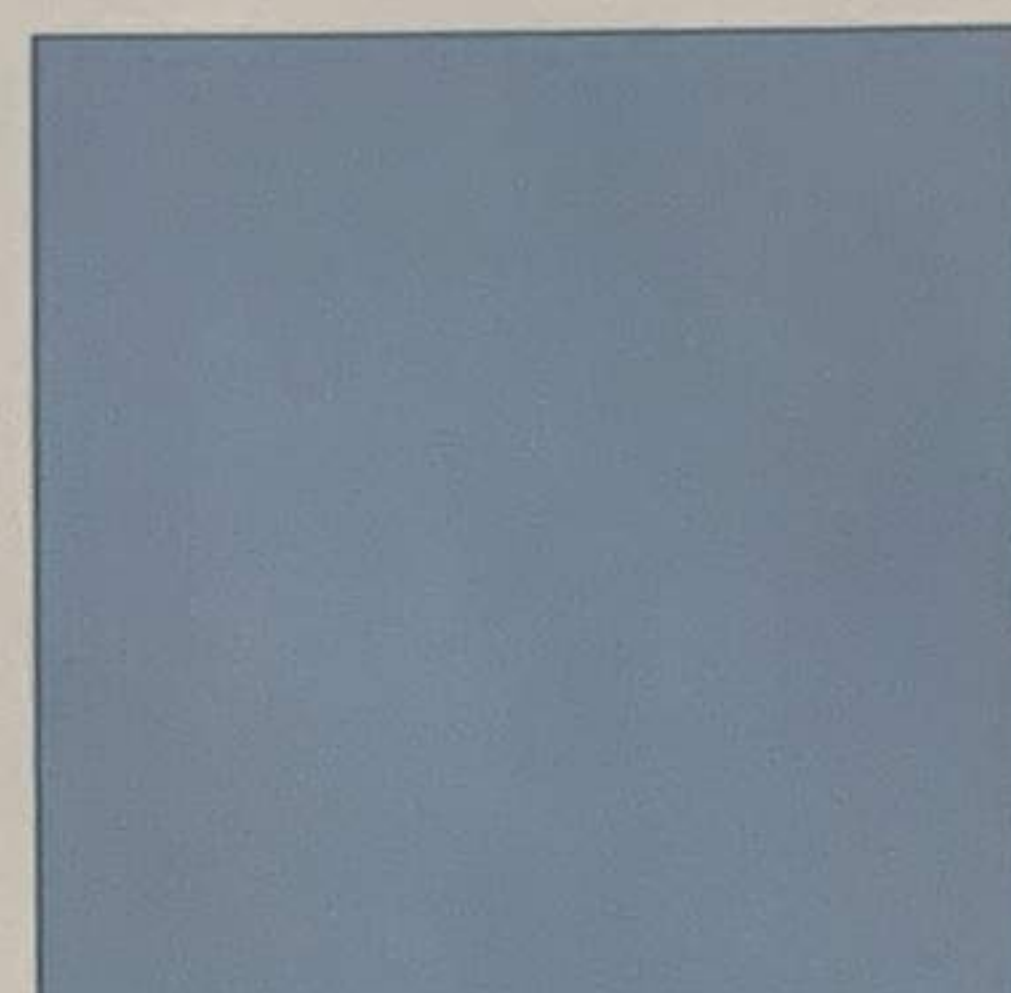
PT-4 DARK BLUE



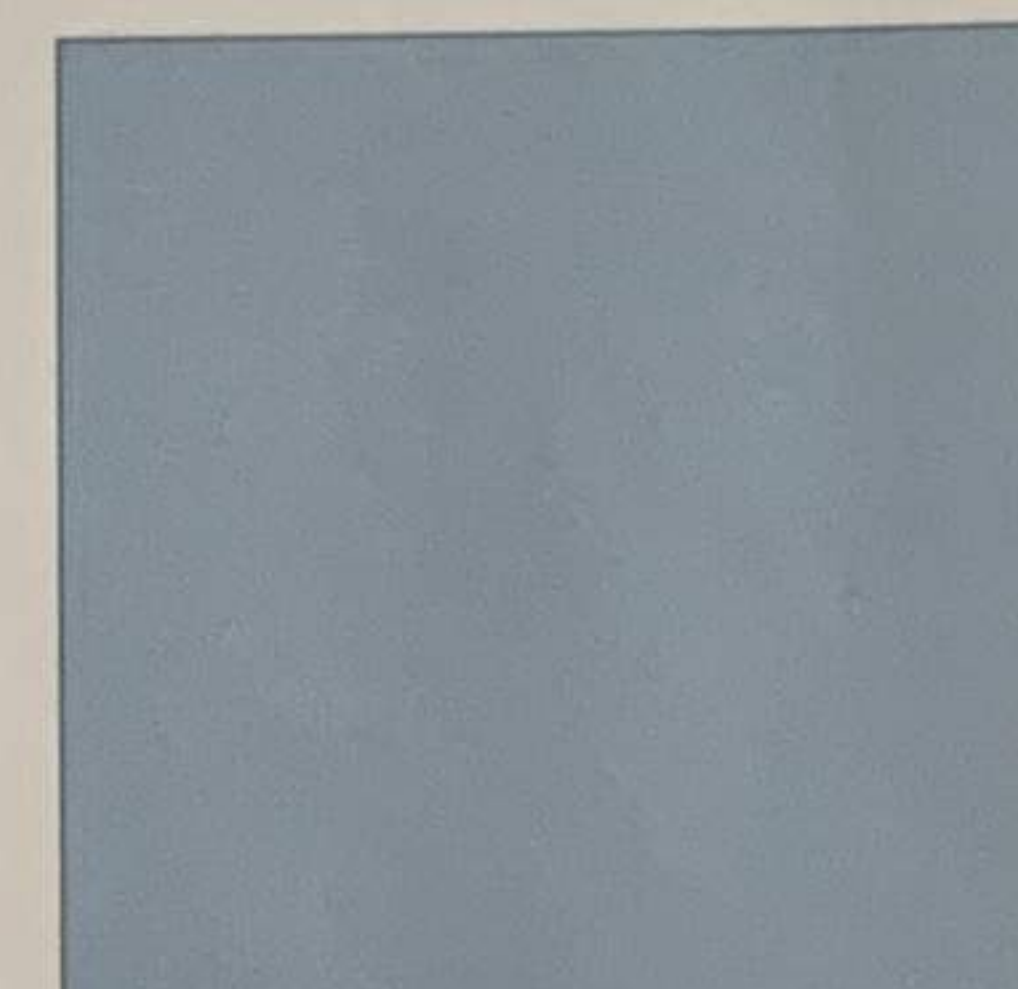
PT-5 DARK BLUE



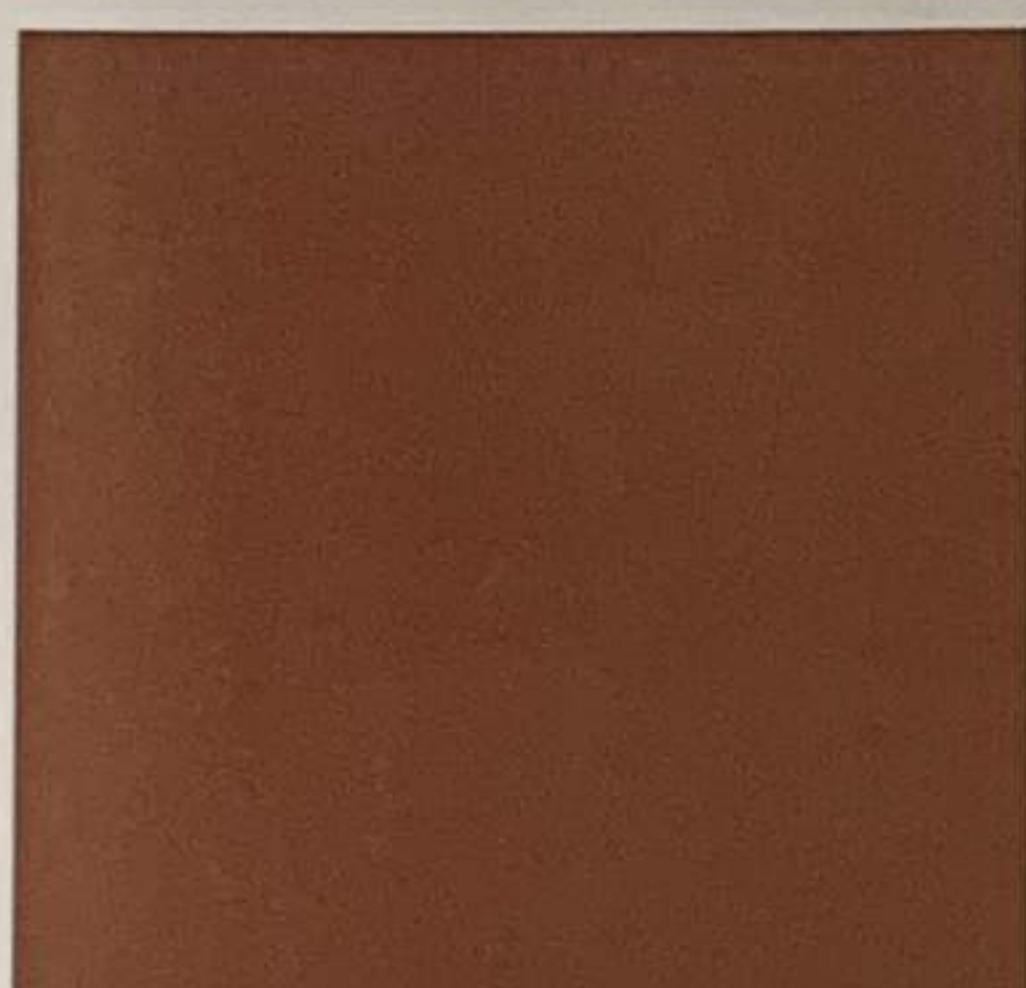
PT-5.5 MEDIUM BLUE



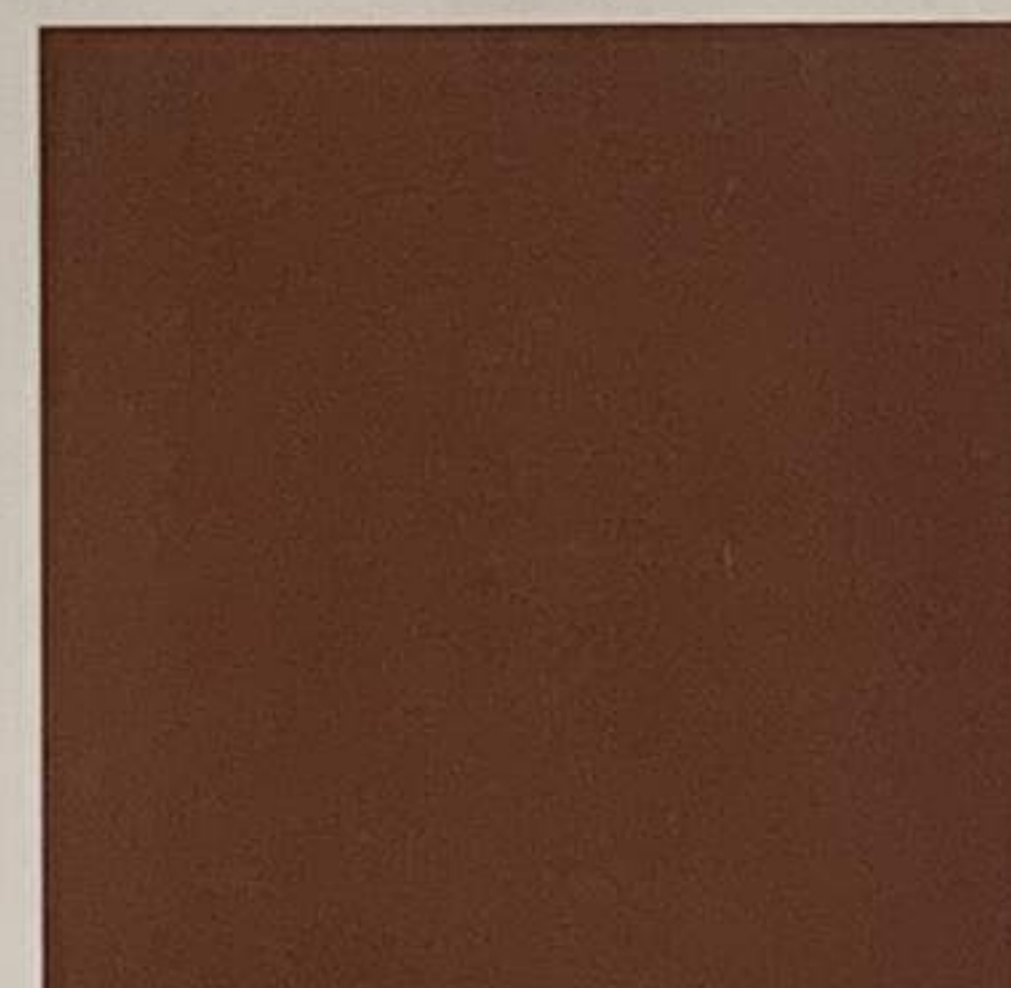
PT-6 LIGHT BLUE



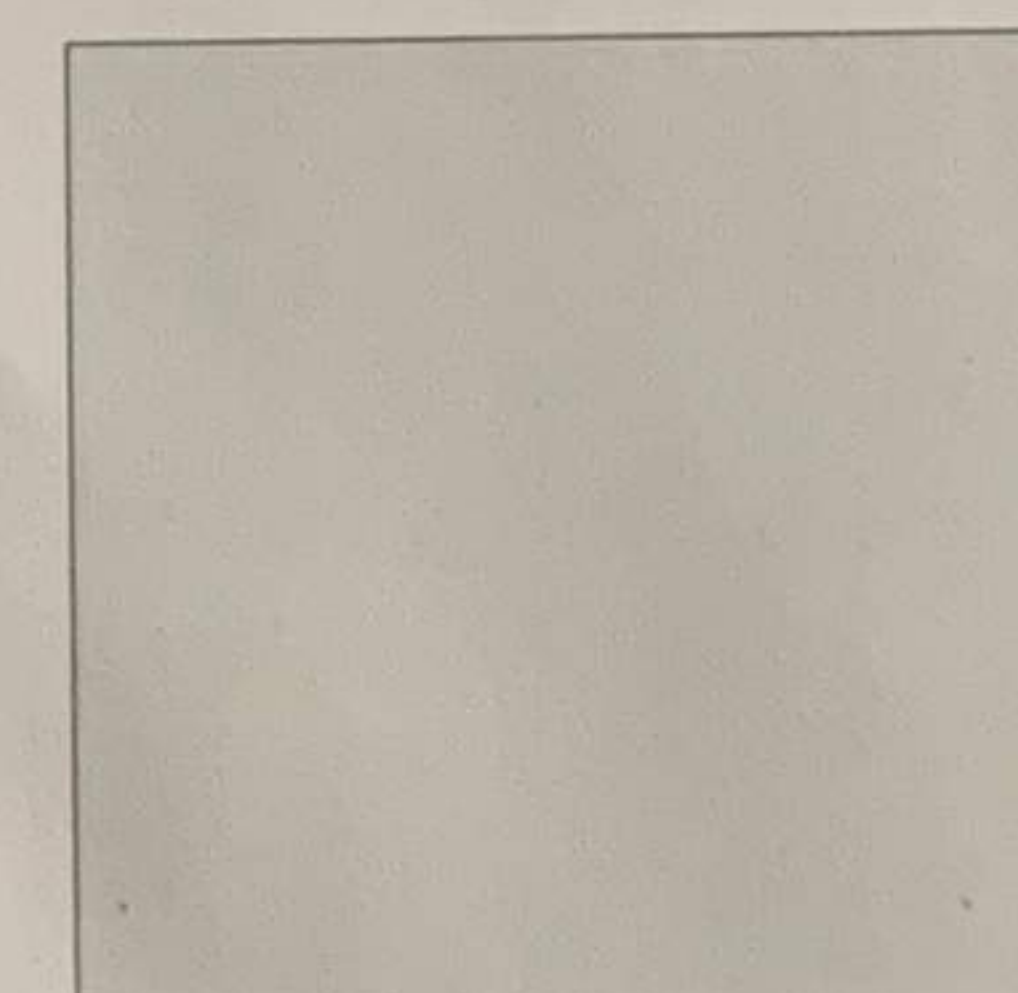
PT-7 LIGHT BLUE



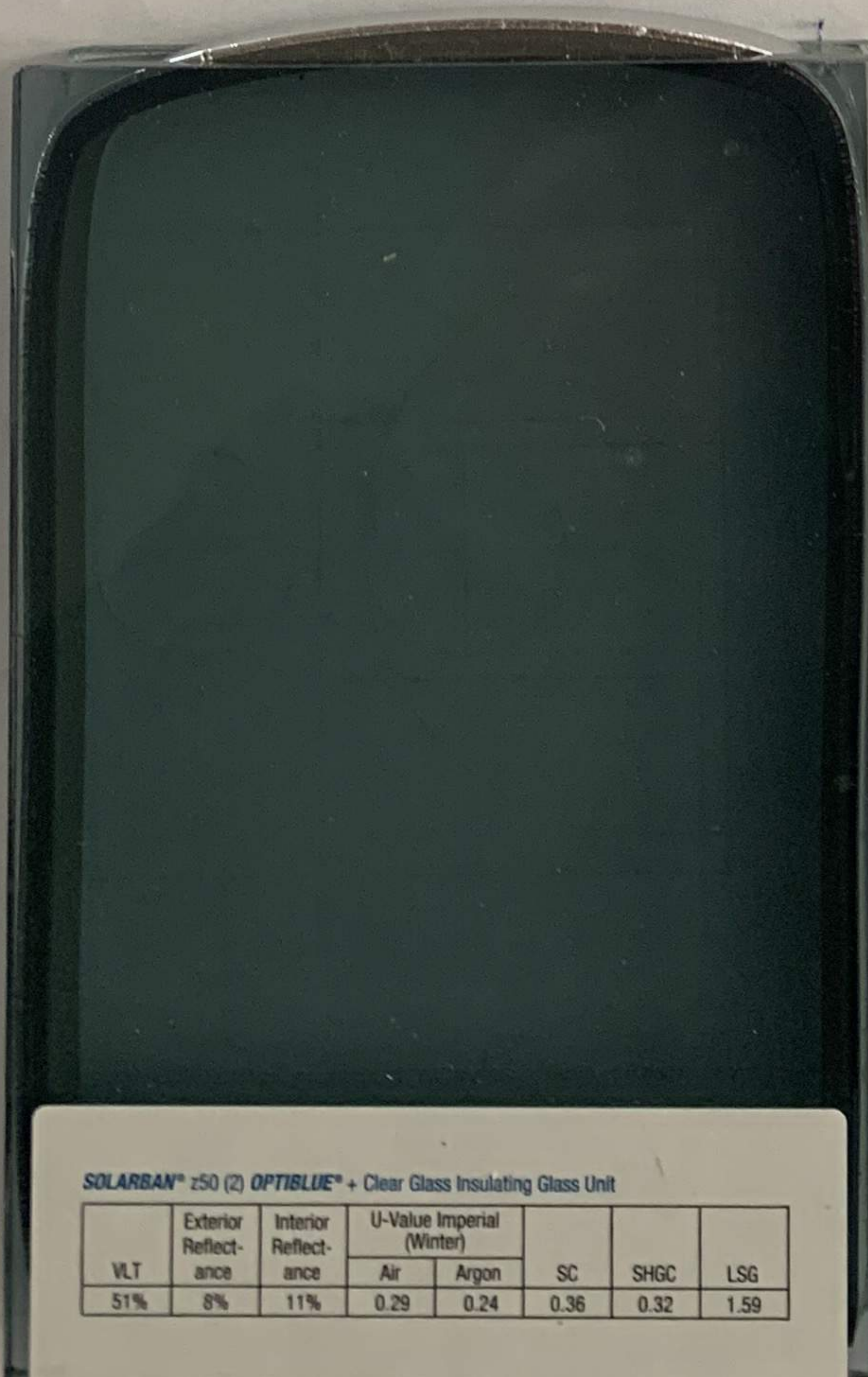
PT-8 ORANGE



PT-9 DARK ORANGE



PT-10 WHITE



SOLARBAN® z50 (2) OPTIBLUE® + Clear Glass Insulating Glass Unit

VLT	Exterior Reflectance	Interior Reflectance	U-Value Imperial (Winter)		SC	SHGC	LSG
			Air	Argon			
51%	8%	11%	0.29	0.24	0.36	0.32	1.59



March 11, 2021

Architectural Review Board
City of Chesterfield
Department of Planning
690 Chesterfield Parkway West
Chesterfield, MO 63017-0760

Re: Architect's Statement: Chesterfield Fieldhouse

Dear members of the Architectural Review Board,

The following is the Architect's Statement for the Chesterfield Fieldhouse, located at 150 N. Eatherton Road, Chesterfield Missouri.

The Site:

Physical features and Access:

The relatively level 10.78 acre site is currently an open field adjacent to a future industrial area. Proposed will be a one story, 98,000 sf Volleyball and Basketball Fieldhouse, with a 10,000 sf mezzanine level. This is in keeping with the sporting and golf activities in the area. The site is adjacent to the Crossing Church to the east, N. Eatherton Road (road leading to the Spirit Landing Golf Course) to the north, and fronts on N. Eatherton road to the west as the primary site entrance.

Site Relationship & Circulation:

The building's main public entry will be located on the north side of the building with parking areas on the west, north and east side of the building. The access to the site will be served by 2 ingress and egress points. Parking is located to shorten the distance to the main entry from several points around the property.

Green space buffers/detention will be located primarily on the south side however multiple locations will be incorporated around the building property lines to soften all elevations of the building from offsite visibility. The larger green space at the southwest corner off N Eatherton road will create a more open approach to the building from the primary access point. In addition, the trash dumpsters will be located on the building's south side and will be screened with a 6' high tilt up concrete enclosure with stained wood swinging gates.

Mechanical equipment will all be mounted on the roof and will be screened from the all property line views naturally by the building's parapet (see attached site section).

The type and location of site and building lighting fixtures were designed to reduce excess glare into the neighboring properties. Many of the fixtures are indirect fixtures and will be located within the entry alcove, which allows the mass of the building to shield the glare from the side neighboring properties.

Topography & Retaining walls:

The natural topography is relatively level and will not require any retaining walls. The storm water management systems includes a bio-retention basin to handle water quality, and will be approved by the City and MSD.

The Building:***Materials:***

The materials on the building include painted concrete panels with decorative reveals, aluminum storefront with tinted glass, and color-matched prefinished aluminum canopies and flashings. The color scheme is composed of shades of blue gray creating depth and a motif that is reinforced by the sporting activities within the building. The vertical panels around the elevations break the parapet line and add a rhythm to the façade. The colors at the upper 2/3's of the building are lighter shades of blue in order to accentuate its lightness, which is in contrast to the heavy base and corner elements.

Scale & Design:

The building is setback significantly from the main entrance at N. Eatherton and sets up a formality and on axis approach drive to the building. The main entrance to the building is on the north elevation and is pulled out from the main building mass to express it as the primary focal. The treatment of the color scheme at the west and north entry further reinforces this area as the dominant entry portal. The other building entries are played down however still are identified and broken down to a human scale with simple horizontal entry canopies that are integrated with the projecting panels that modulate the proportions of the elevations. Lastly, a light concrete horizontal band is used as a linear thread that weaves throughout the building and acts as a unifying element that forms an edge between the upper mass and the more humane lower mass while supporting the netting imagery that supports and reinforces the interior function as a sporting events center.

Landscape design and screening:

The required number of trees have been provided and landscaping is also added to the building to provide a buffer between parking drives and the concrete walks around the building. The main entry is set up to receive safely a large volume of patrons and create a clarity of arrival enhanced with the softer landscape forms.

The plant palette, designed for low maintenance, has been selected from Chesterfield's list of approved trees. The chosen plants also provide pollinators (especially at the bio-retention pond) and seasonal color & texture throughout the site. Flowering trees will be used at the entries and will contrast the building color scheme.

Signage:

The signage will be integral and become part of the architectural design, in order to reinforce the building architecture with the sporting design motif. Signage shall be designated in the area on the west and north entry to address the 2 points of site entry.

Lighting standards:

The parking areas will be illuminated by full cutoff, low profile, LED roadway fixtures and equipped with house side shields where located at property lines to minimize glare and light trespass. Building entries will incorporate a combination of downlights, low profile, recessed LED can lighting and wall washer fixtures to up light the wall at the projecting panel entry masses.

Sincerely,
mw Weber Architects

Michael J. Reardon
Project Manager



690 Chesterfield Pkwy W • Chesterfield MO 63017-0760
Phone: 636-537-4000 • Fax 636-537-4798 • www.chesterfield.mo.us

**The City of Chesterfield is committed to excellence
in service and overall quality of life:
By being the City of Choice in the St. Louis Region
within which to live, work, play, and visit.**

- City of Chesterfield Mission Statement

The Planning Commission and the Department of Planning strive for the above in the review of projects presented to the City of Chesterfield for development. To assist with this process, the Architectural Review Board was established in 1998.

The terms and provisions of the Architectural Review Standards ([Section 04-01 of the Unified Development Code](#)) shall apply to all vacant or undeveloped land and all property to be redeveloped including additions and alterations. Projects will be reviewed by the Architectural Review Board (ARB) to provide recommendations to the Planning Commission and Department of Planning.

The Planner assigned to your development project will notify you when the project is ready for submission to the ARB. This may be upon completion of the first full review by the City or upon resubmittal after comments raised by the City have been addressed if said comments will impact the site layout or design. The Planner will work with you and advise you on the appropriate agenda review date for your project.

To aid you in preparing an item for review, the attached information has been developed:

- Project Statistics and Checklist
- Architectural Review Standards

To ensure you have everything you need for ARB review, once the project is ready for ARB submittal, you will be notified by your Planner to submit one copy of your full ARB application for review. **This review is done to ensure you have everything you need prior to submitting the required thirteen (13) copies necessary for the meeting. Again, your Planner will notify you of all submittal deadline dates as they assist you through this process.*

All items requested must be submitted by the date provided to you by your assigned Planner in order to have the project placed on the ARB's agenda.

If you have questions about the architectural review process, contact your assigned Planner, or contact the Planner of the Day at 636-537-4733 or pod@chesterfield.mo.us

Thank you



**ARCHITECTURAL REVIEW BOARD
Project Statistics and Checklist**

Date of First Comment Letter Received from the City of Chesterfield _____

Project Title: _____ Location: _____

Developer: _____ Architect: _____ Engineer: _____

PROJECT STATISTICS:

Size of site (in acres): _____ Total Square Footage: _____ Building Height: _____

Proposed Usage: _____

Exterior Building Materials: _____

Roof Material & Design: _____

Screening Material & Design: _____

Description of art or architecturally significant features (if any): _____

ADDITIONAL PROJECT INFORMATION:

Checklist: Items to be provided in an 11" x 17" format

- Color Site Plan with contours, site location map, and identification of adjacent uses.
- Color elevations for all building faces.
- Color rendering or model reflecting proposed topography.
- Photos reflecting all views of adjacent uses and sites.
- Details of screening, retaining walls, etc.
- Section plans highlighting any building off-sets, etc. (as applicable)
- Architect's Statement of Design which clearly identifies how each section in the Standards has been addressed and the intent of the project.
- Landscape Plan.
- Lighting cut sheets for any proposed building lighting fixtures. (as applicable)
- Large exterior material samples. (to be brought to the ARB meeting)
- Any other exhibits which would aid understanding of the design proposal. (as applicable)
- Pdf files of each document required.

ARCHITECTURAL REVIEW DESIGN STANDARDS

Please refer to [Section 04-01 of the Unified Development Code](#) for the Architectural Review Design Standards.

ARCHITECTURAL TERMS

Please refer to [Section 10-06 of the Unified Development Code](#) for definitions of Architectural Terms.