


Architectural Review Board Staff Report

Meeting Date: April 14, 2022

From: Chris Dietz, Planner 

Location: 1851 Schoettler Rd.

Description: **Logan University ASP:** An Amended Site Plan, Landscape Plan, Tree Stand Delineation, Tree Preservation Plan, Architectural Elevations, and Architect's Statement of Design for a 102.43-acre tract of land zoned "NU"—Non-Urban District located on the west side of Schoettler Rd., north of its intersection with Brook Hill Dr.

PROPOSAL SUMMARY

ITTNER Architects and CEDC, Inc., on behalf of Logan University, have submitted an Amended Site Plan for a two-story, 8,000 square-foot addition to the Science Building at the center of the Logan University Campus. Although the building will only be visible from the interior of the campus, the Unified Development Code states that the Architectural Review Board (ARB) shall review any addition if it is greater than 5,000 square feet or if the addition significantly impacts architectural components previously approved by Planning Commission or the ARB.



Figure 1: Subject Site

HISTORY OF SUBJECT SITE

Pre-1988—Site was zoned “NU”—Non-Urban prior to City’s incorporation, with the first buildings built in the 1960s, according to St. Louis County records.

2000—Site Plan approved for the addition of a maintenance building, restrooms, and pavilion on the northern end of the campus.

- 2005—Amended Site Plan approved for a lecture hall and Amphitheater located in the southeast corner of the campus.
- 2010—Amended Site Plan approved for 3-story addition to an administrative and classroom building.
- 2017—Amended Architectural Elevations approved for lighting changes to the bell tower at the center of the campus. A Specialty Lighting Package was approved for this project the following year.

STAFF ANALYSIS

The Unified Development Code’s Architectural Review Design Standards are broken down into two (2) areas of review: Site Design & Building Design.

The general requirements for Site Design include Site Relationships, Topography & Parking, Circulation & Access, and Retaining Walls while the general requirements for Building Design include Scale, Design, Materials & Colors, Landscape Design & Screening, Signage, and Lighting.

The UDC has specific provisions regarding the redevelopment of existing buildings. All additions and exterior renovations to existing structures shall advance such structures toward further compliance with the provisions of UDC’s Architectural Review Design Standards. Exterior additions must also be incorporated into one (1) cohesive design with the existing structure.

A. Site Relationships

The proposed addition is located well-within the 102-acre campus of Logan University. The university itself is surrounded by single-family residential in the greater area. With this proposed addition being located at the center of the campus, it will have little or no impact on the surrounding residential areas once completed.

B. Circulation System and Access

The campus is currently served by two (2) vehicular access points along Schoettler Rd., with no other entrances to the site. As this site is a university campus, pedestrian access is prevalent throughout, with the center of the campus reserved exclusively for pedestrians. The proposed addition will be located within this area causing the pedestrian path in front of the building to be relocated just south of the new portion of the building, as shown in Figures 2 and 3:



Figure 2: Colored Site Plan



Figure 3: Building Addition Footprint

C. Topography & Parking

The area on which the building addition will be located is relatively flat. Parking is provided to the north, east, and west of the existing building.

D. Scale

The building features a two-story design, similar to that of the existing building and will be slightly smaller than the existing building. The addition caters to the pedestrian scale as it is located on a pedestrian plaza in the center of the campus.

E. Design

The design of the building deviates slightly from the existing building by incorporating more glass and an arc-shaped façade on the south elevation. The curtain wall will be accompanied by aluminum composite panels that break up the massing of the south elevation of the building, with pedestrian entrances on both east and west elevations of the new addition. A canopy system will be located on the southeast corner of the new building above the pedestrian entrance. The roof of the new addition will reach 29'4" in height with a parapet reaching just over 8'0" at 37'7^{1/2}" in height around the south side of the building. Beyond the parapet, a mechanical screen will extend to a height of 41'4" to screen rooftop mechanical equipment from view.

F. Materials and Color

Brick veneer is the primary building material used in this building expansion, and is patterned to break up massing on the east and west elevations. The brick color will match the tan brick of the existing building. The aluminum composite paneling material will be used primarily in the curtain wall system that spans the south elevation, with the aluminum paneling wrapping around the east elevation at the pedestrian entrance. Tinted glass is also found in the curtain wall system and around the east and west sides of the building, with sunshades covering fritted glass on the floor-to-ceiling windows featured on the angled sections of the east and west elevations. A

Rendering



Figure 5: Rendering

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 the Amended Site Plan for the Logan University (ASP):

MOTION

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

- 1) "I move to forward the Amended Site Plan, Landscape Plan, Tree Stand Delineation, Tree Preservation Plan, Architectural Elevations, and Architect's Statement of Design for Logan University (ASP) as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Amended Site Plan, Landscape Plan, Tree Stand Delineation, Tree Preservation Plan, Architectural Elevations, and Architect's Statement of Design for Logan University (ASP) to the Planning Commission with the following recommendations..."

Attachments

1. Architectural Review Packet Submittal

ARCHITECTURAL REPORT

Project Name: Logan University
1851 Schoettler Road
Chesterfield, MO 63017

Ittner Project No.: 202010.00
Date: 02/23/2022

General Project Description:

Logan University has a desire to make improvements to the campus including select interior renovations in the Administration Center and a significant renovation and building addition the existing Science Building. The buildings are located on the main campus at 1851 Schoettler Road, Chesterfield, MO 63017. The campus is approximately 102.43 acres with this project consisting of approximately 0.31 acres. There are two existing access points to the site from Schoettler Road. The exterior and site improvements are part of a building addition on the south side of the Science building.

**History:**

Logan College was established in 1935 and located in St. Louis, MO. The college moved to the current site in Chesterfield, MO in 1972 and became Logan University in 2013. Since moving to the Chesterfield site, the campus has had several significant site improvements and building additions included but not limited to the Science Building and Clinic Addition in the 1980's, Purser Center in 2008, and the Assessment Center addition in 2011.

Architectural Design Standard Statement:

This report is provided to demonstrate the application of the Architectural Review Design Standards per section 405.04.010.

Part A (Applicability And Compliance):

The campus is bound by Schoettler Road along the eastern end of the site and residential properties around the other 3 sides of the property. The north and west property lines are heavily wooded with virtually no visibility to the campus from the surrounding residents. The south property line is also wooded with very minimal visibility from the residents along the property line.

ARCHITECTURAL REPORT

It should be noted the planned exterior and site improvements are limited to the existing Science Building at the core of the campus (see red outline on the google map image below). The planned addition is on the south side of the science building facing the interior courtyard. The north elevations and portions of the east and west elevations have very minimal to no changes. Therefore, there is virtually no impact to the surrounding community.

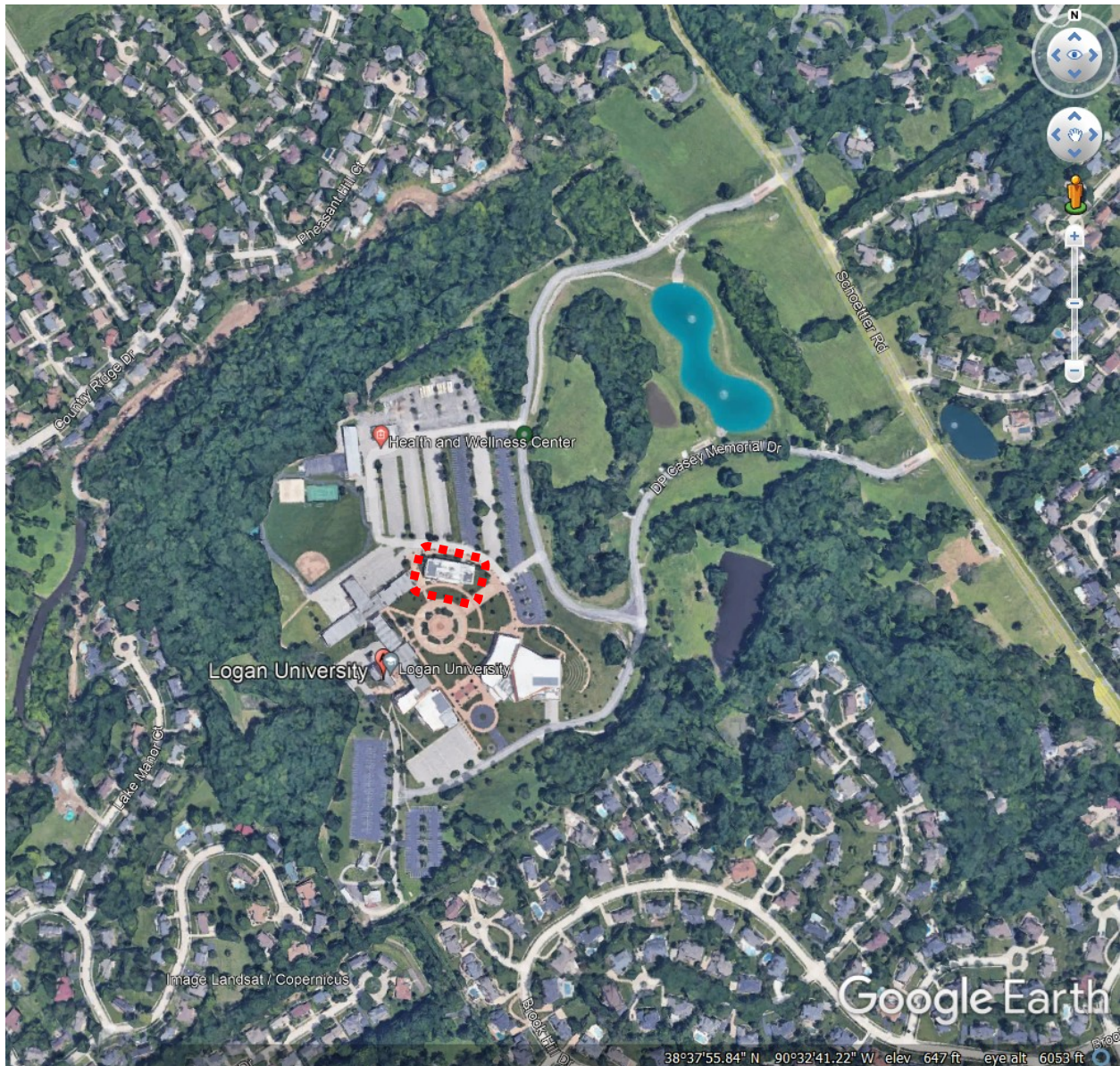


Exhibit A (Google Maps) image of Logan University (Chesterfield, MO)

Part B (Submittal Requirements and Procedures):

The submitted package includes the requirements outlined in part B (Submittal Requirements and Procedures) and with input from the city planner.

ARCHITECTURAL REPORT

Part C (General Requirements for Site Design):

As stated earlier, the planned improvements are minimal relative to the overall campus. There are no changes planned to the vehicular drives and parking. Pedestrian walking paths are maintained and improved around the planned building addition. The courtyard features are maintained and improved. The new addition has glazing on the south façade to optimize views to the courtyard and site. Building features, glazing types, and shades allow sunlight into the building in an optimal and energy efficient manner. The site area being improved has minimal slopes with no retaining walls required.

Part D (General Requirements for Building Design):

The overall scale of the addition is appropriate and matches the existing building with appropriate screening features for most roof top equipment. The overall design of the building façade complements the existing building design and materials including brick veneers, ACM panel systems, curtain wall & storefront systems and glazing with sunshade systems and canopies to allow sunlight into the building in an optimal and energy efficient manner. The building envelop systems are designed to comply with or exceed the requirements of the adopted energy code. Appropriate landscaping is provided to complement the existing campus and enhance views from the building. The specified landscaping palette includes seasonal color with trees, shrubs, and native perennials with decorative rock mulch along the front edge of the building. Pedestrian light standards and light bollards are provided to complement the existing campus. Code compliant lighting is provided at building entries and egress doors with building accent lighting to complement the exterior building design.

EXTERIOR MATERIALS

Project Name: Logan University
1851 Schoetter Road
Chesterfield, MO 63017

Ittner Project No.: 202010.00
Date: 3/14/2022

Science Building Exterior Finishes:

Rendering Proposed New South Elevation



Photo of Existing South Elevation:



EXTERIOR MATERIALS

The materials for the new addition will match and complement the existing building. The new brick will be a light beige brick to match the existing brick.



Brick; match existing beige

Coping Above Brick: Bone white or equal to ACM color

ACM: ALPOLIC 4mm FR panel, Bone white at fins and grey at east entry

Curtain Wall and Sunshade: Clear Anodized or White.

Glazing: Vision panels – clear solarban 70 with 25% and 50% white ceramic frit applied to some (lateral line pattern), Spandrel Opacicoat white

Perforated Fin: Kynar White

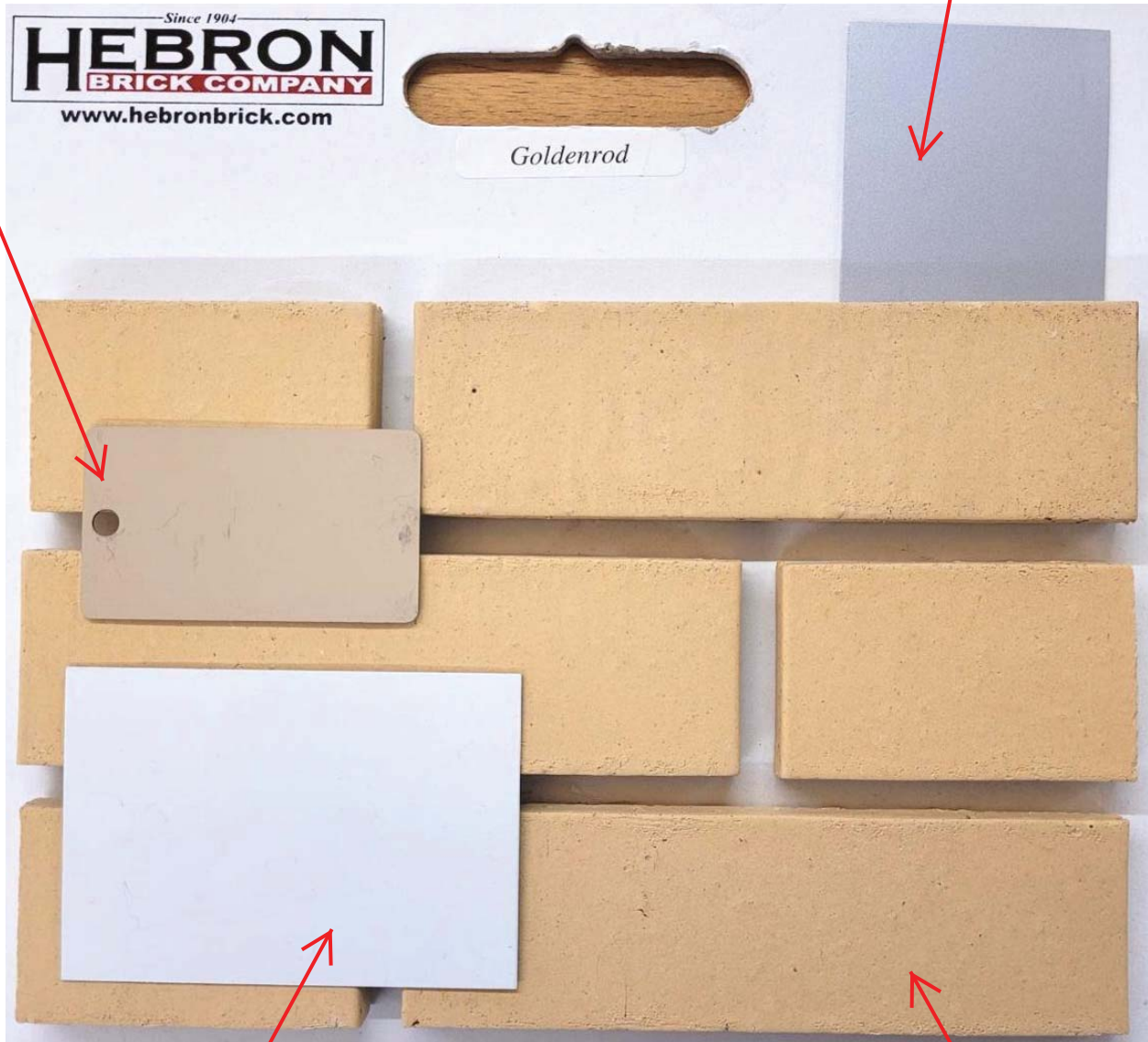
Roof Screen: Centria CS-620 (TBD) color beige family to match brick.

See samples on the next page-

EXTERIOR MATERIALS

Sample for RTU Screen Panels to match brick. We will continue to gather samples and work on more closely matching the brick

Painted Finish to Match Clear Anodized Windows



Bone White Metal Sample

Brick to Match Existing Light Brick



CONCEPT SITE PLAN

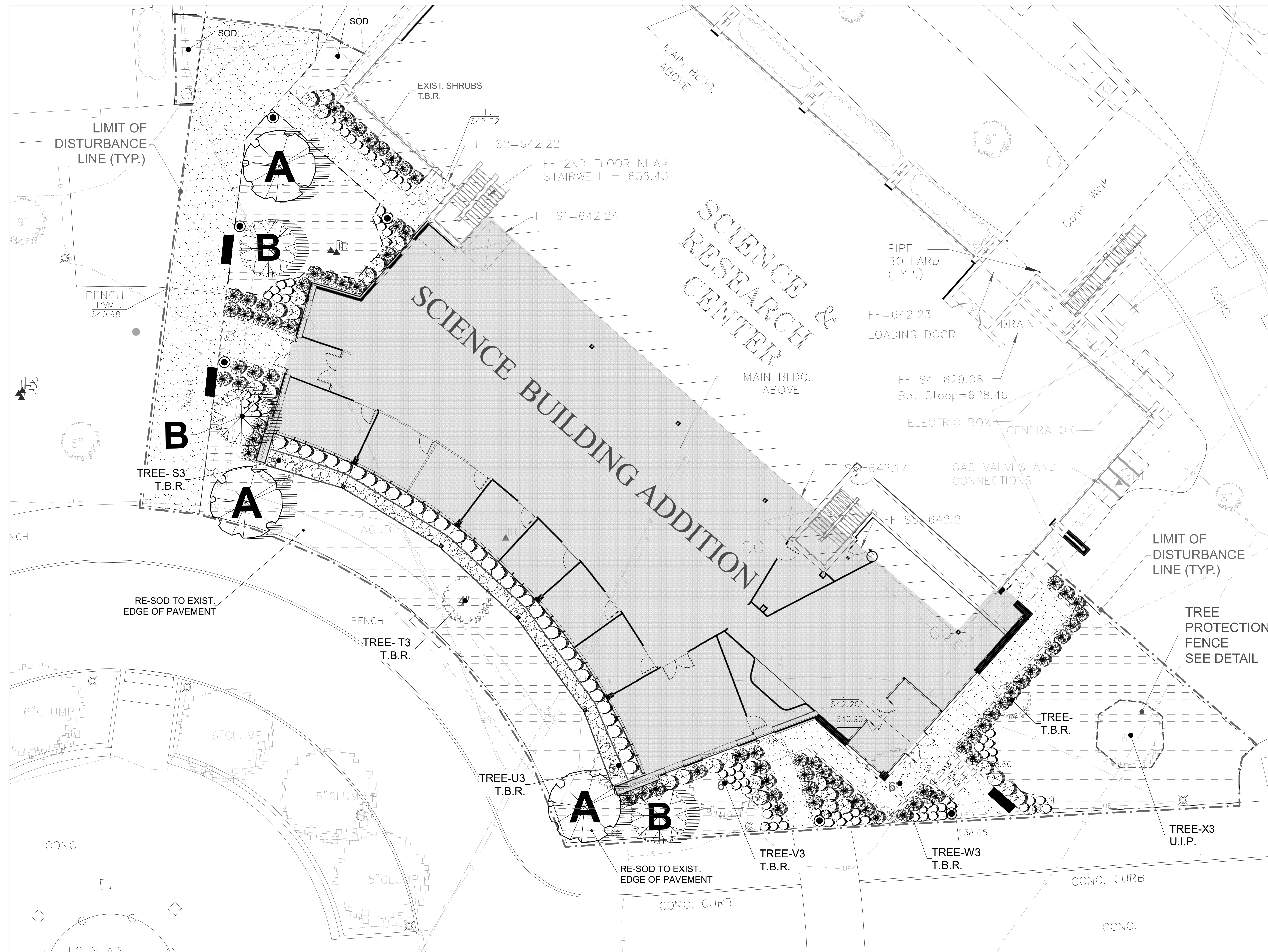
LOGAN UNIVERSITY SCIENCE BUILDING ADDITION

SCALE: 1" = 80'

1851 SCHOETTLER ROAD
CHESTERFIELD, MISSOURI



02.23.22



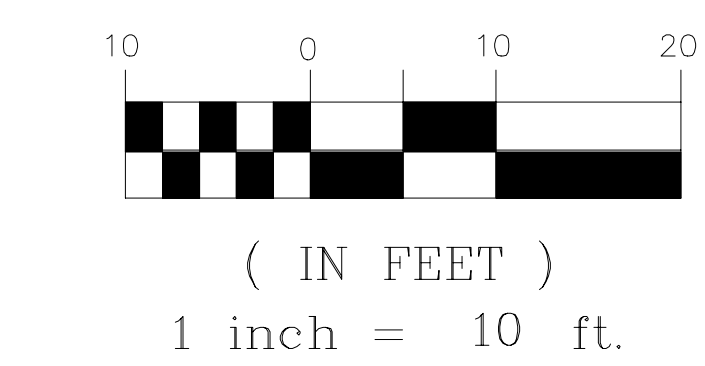
EXISTING TREE LEGEND

15" - EXISTING DECIDUOUS TREE TO REMAIN

PROPOSED LEGEND

- TURF - SOD (Turf Type Fescue)
- 2' MIN. THICK STONE MULCH "A" W/FILTER FABRIC
- 4 FT. HIGH TREE PROTECTION FENCE
- LIMIT OF DISTURBANCE LINE
- NEW CONCRETE PAVEMENT
- BOLLARD PATH LIGHT RE: SITE LIGHTING PLAN
- 6 FT. METAL BENCH
- BLACK ALUMINUM LANDSCAPE EDGING

GRAPHIC SCALE



PROPOSED LANDSCAPE PLANT LIST

LOGAN UNIVERSITY - SCIENCE BUILDING ADDITION January 17, 2022

QUANT.	COMMON NAME	BOTANICAL NAME	MATURE HEIGHT	GROWTH RATE	SIZE CLASS
(2)	2.6" DECIDUOUS CANOPY TREES 50% provided				
	Red Maple	(Acer rubrum 'Scarlet Sentinel')	40 feet	MediumFast	Large
(3)	2.5" HIL. DECIDUOUS ORNAMENTAL TREES 50% provided				
	Sweetbay Magnolia	(Magnolia virginiana 'Im Wilson')	15-25 feet	Medium	Small
	Saucer Magnolia	(Magnolia x soulangeana)	20-30 feet	SlowMedium	Medium
	Flowering Dogwood	(Cornus florida)	15-25 feet	SlowMedium	Small
(27)	18-24" min. DECIDUOUS SHRUBS				
	'Henry's Game' Sweetgum	(Liquidambar styraciflua 'Henry's Game')	2-3 feet	Medium	Small
	'Minesa' Weigela	(Weigela florida 'Minesa')	2-3 feet	Medium	Small
	Tiny Wine Ninebark	(Physocarpus opulifolius 'Tiny Wine')	2-3 feet	Medium	Small
	Kalm St. John's Wort	(Hypericum kalmianum 'Amae')	2-3 feet	Medium	Small
	Abbotswood Shrubby Onquibol	(Potentilla fruticosa 'Abbotswood')	2-3 feet	Medium	Small
(74)	18-24" min. EVERGREEN SHRUBS				
	'Green Velvet' Boxwood	(Buxus x 'Green Velvet')	3 feet	Medium	Small
	'Taunton' Yew	(Taxus x media 'Taunton')	3 feet	Medium	Small
	Green Mound Jap Juniper	(J. procumbens 'Green Mound')	75 feet	Medium	Small
	Strongbox Hiberry	(Ilex glabra 'Strongbox')	2-3 feet	Medium	Small
(87)	1-3 GAL. ORNAMENTAL GRASS				
	Dwarf Fountain Grass	(P. atropurpurea 'Harnett')	2 feet	Medium	Small
(74)	1 QT.-1 GAL. PERENNIAL FLOWER				
	Happy Returns Daylily	(Hemerocallis x 'Happy Returns')	2 feet	Medium	Small
	Little Spire Russian Sage	(P. atriplicifolia 'Little Spire')	2 feet	Medium	Small
	Big Blue Lilyturf	(Lirioden 'Big Blue')	1-2 feet	Medium	Small
	October Skies Aster	(Symph. oblongistylum 'October Skies')	1-2 feet	Medium	Small
	Rose Verbena	(Glandularia canadensis)	1.5 feet	Medium	Small
	Blazing Star	(Liatris spicata 'Kobold')	2.5 feet	Medium	Small

EXISTING TREE LIST

#	TREE SPECIES	D B H	COMMENTS	COND.
S3	red maple	4"	good form	GOOD
T3	red maple	4"	wound on trunk, co-dominant at 5'	FAIR
U3	red maple	4"	large wound on trunk with exposed decay, co-dominant at 6'	POOR
V3	sugar maple	6"	co-dominant at 6'	GOOD
W3	sugar maple	7"	co-dominant at 10', slightly bulbous trunk	GOOD
X3	red maple	7"	co-dominant at 10', pruned, minor deadwood	GOOD

EXISTING TREE LEGEND

15" - EXISTING DECIDUOUS TREE TO REMAIN

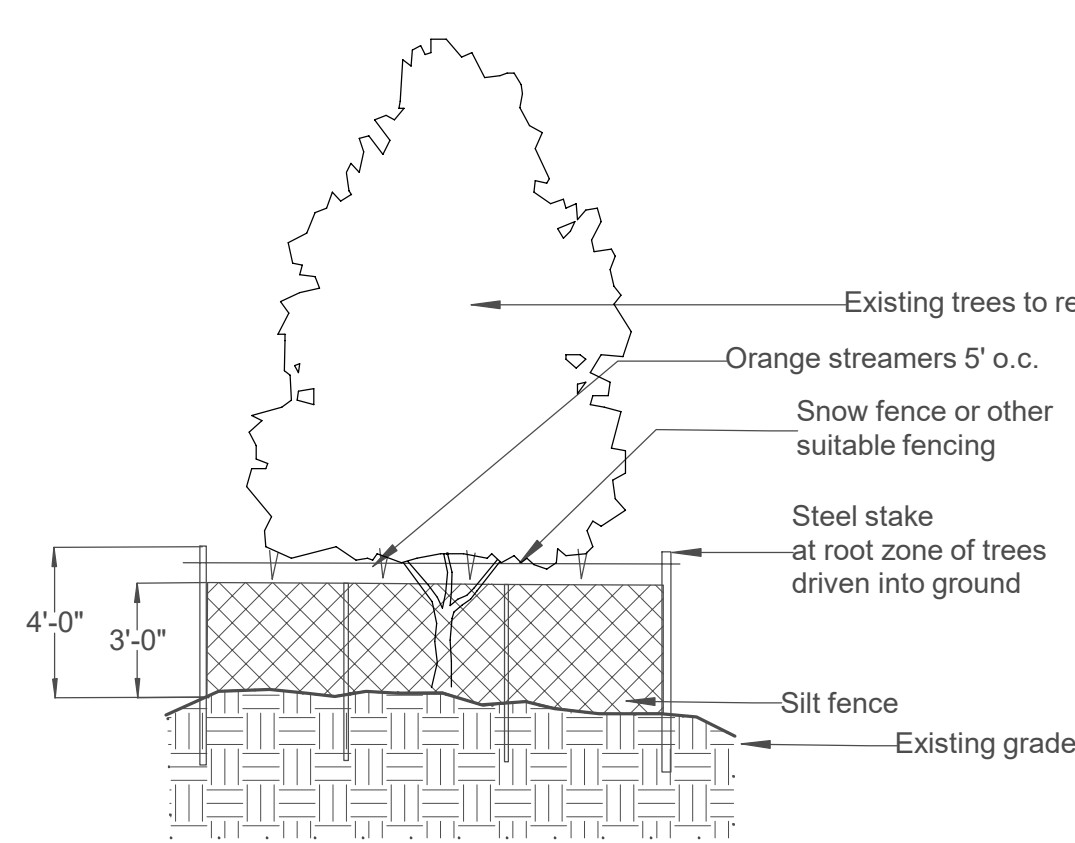
19" TBR - EXISTING DECIDUOUS TREE

PLAN NOTES:

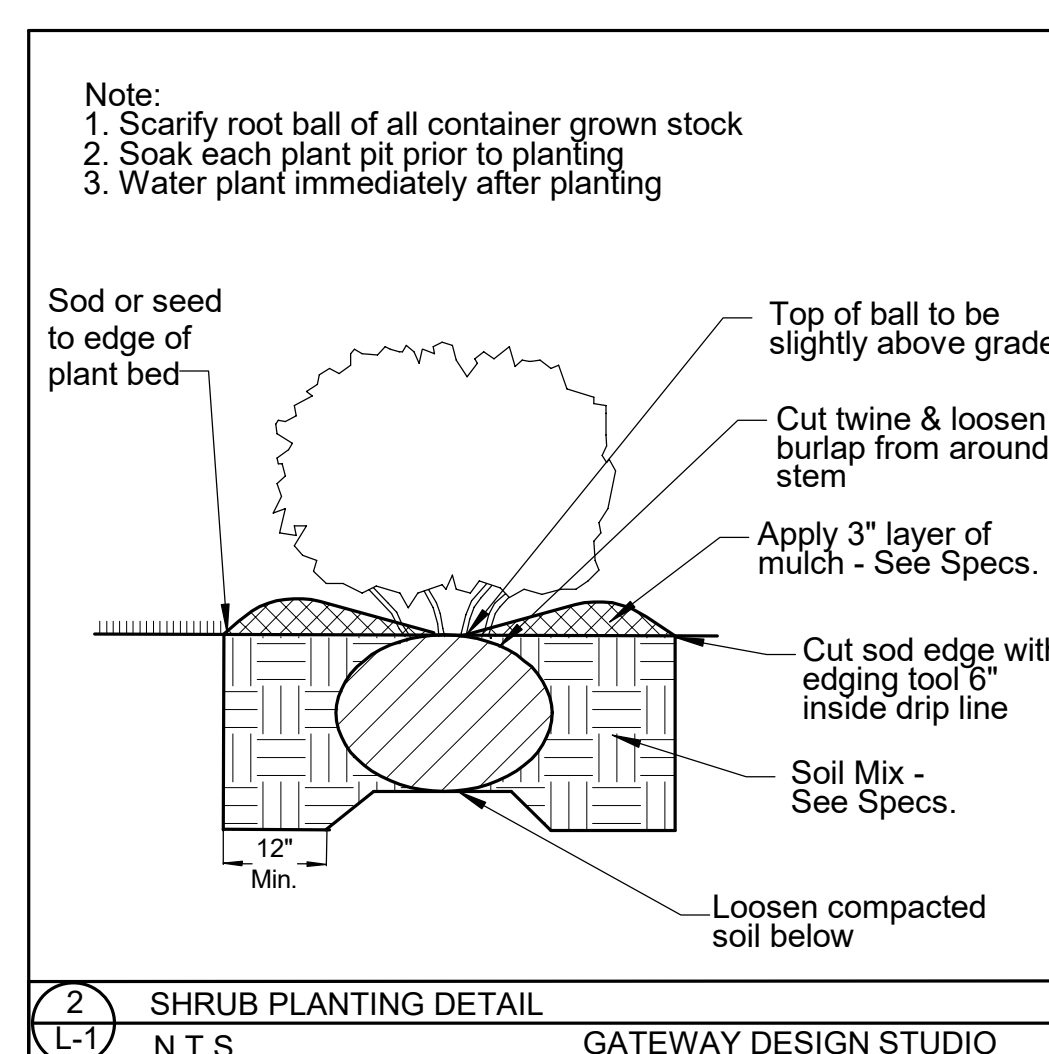
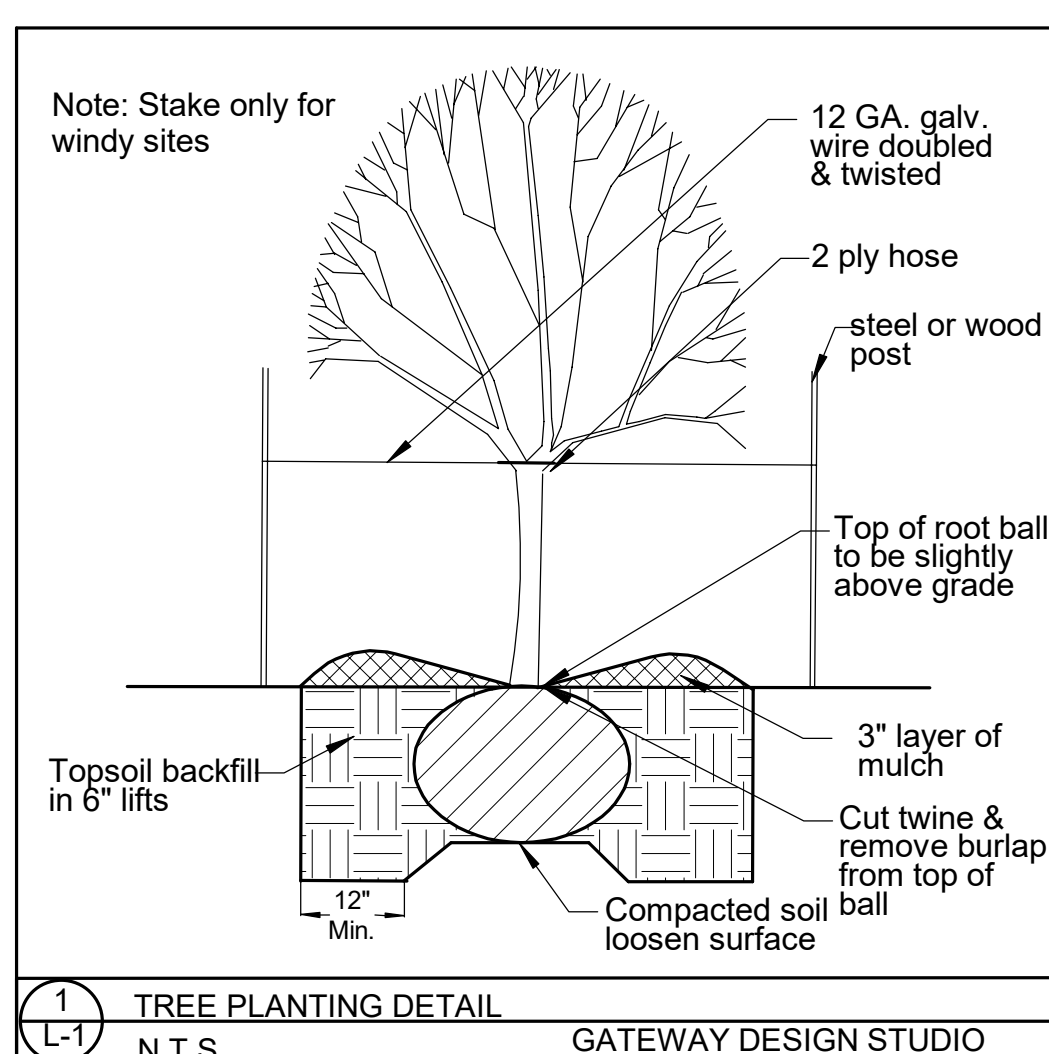
1. Contractor to review and field verify existing and proposed conditions prior to installation.
2. Contractor to notify GATEWAY DESIGN STUDIO of any discrepancies.
3. Contractor to coordinate with other trades.
4. Contractor to adjust plantings accordingly, notify GATEWAY DESIGN STUDIO of any major changes.
5. Proposed plant material is to be selected by the contractor and approved by GATEWAY DESIGN STUDIO or Owner prior to installation.
6. Tree locations and planting beds to be located by the contractor and approved by GATEWAY DESIGN STUDIO or Owner prior to installation.
7. MULCH: All planting beds to receive a 3 inch layer of shredded bark mulch in a continuous bed. Apply a granular pre-emergent weed control barrier prior to mulching.
8. Quantity of sod and seeding shown is for bidding purposes only. Submit unit cost for any additional cost or credit.
9. Contractor is responsible for installing all plant material shown on plan.
10. All landscaping improvements and maintenance to be done according to City of Chesterfield requirements.
11. Plantings shall not prohibit site distance requirements.
12. Proposed conditions based on latest plans prepared by CEDC, Inc. Refer to Civil Plans for proposed site development and grading requirements.

TREE PROTECTION NOTES:

- A. Protective fencing shall be installed along the Limit of Disturbance Line to prevent damage to the roots, trunk, and tops of protected trees. This protective fence shall protect the tree and its roots from clearing, grading, soil filling, storage of materials, parking of vehicles, utility installation or other construction activity of any kind.
- B. Signs designating required tree protection areas shall be posted along the Limit of Disturbance Line.
- C. Root Pruning or trenching shall occur when roots, within the critical root zone of a protected tree, will be damaged as a result of nearby excavation or the addition of fill over the root system.
- D. Trenches are not permitted inside the drip line of a tree's canopy.
- E. Sediment and Erosion Control Structures must be used to keep eroded soil from covering roots of protected trees. Siltation screens, etc., are appropriate.
- F. Clearing limits shall be rough staked or marked by the applicant's surveyor in order to facilitate location for trenching and fencing installation.
- G. No clearing or grading shall begin in areas where tree treatment and preservation measures have not been completed.
- H. Refer to this sheet for protective devices details.
- I. Early maintenance schedule shall be provided by Tree Specialist noting any pruning, injection, fertilizing required.
- J. Name of Tree Specialist shall be determined prior to construction.



COMBINED SILT AND TREE PROTECTION FENCE



NOT FOR CONSTRUCTION - FOR REVIEW ONLY
100% CD & ACC SET - UPDATED 2-25-22

SEAL:

ORIGINAL ISSUE DATE: 2.18.2022

REVISIONS:

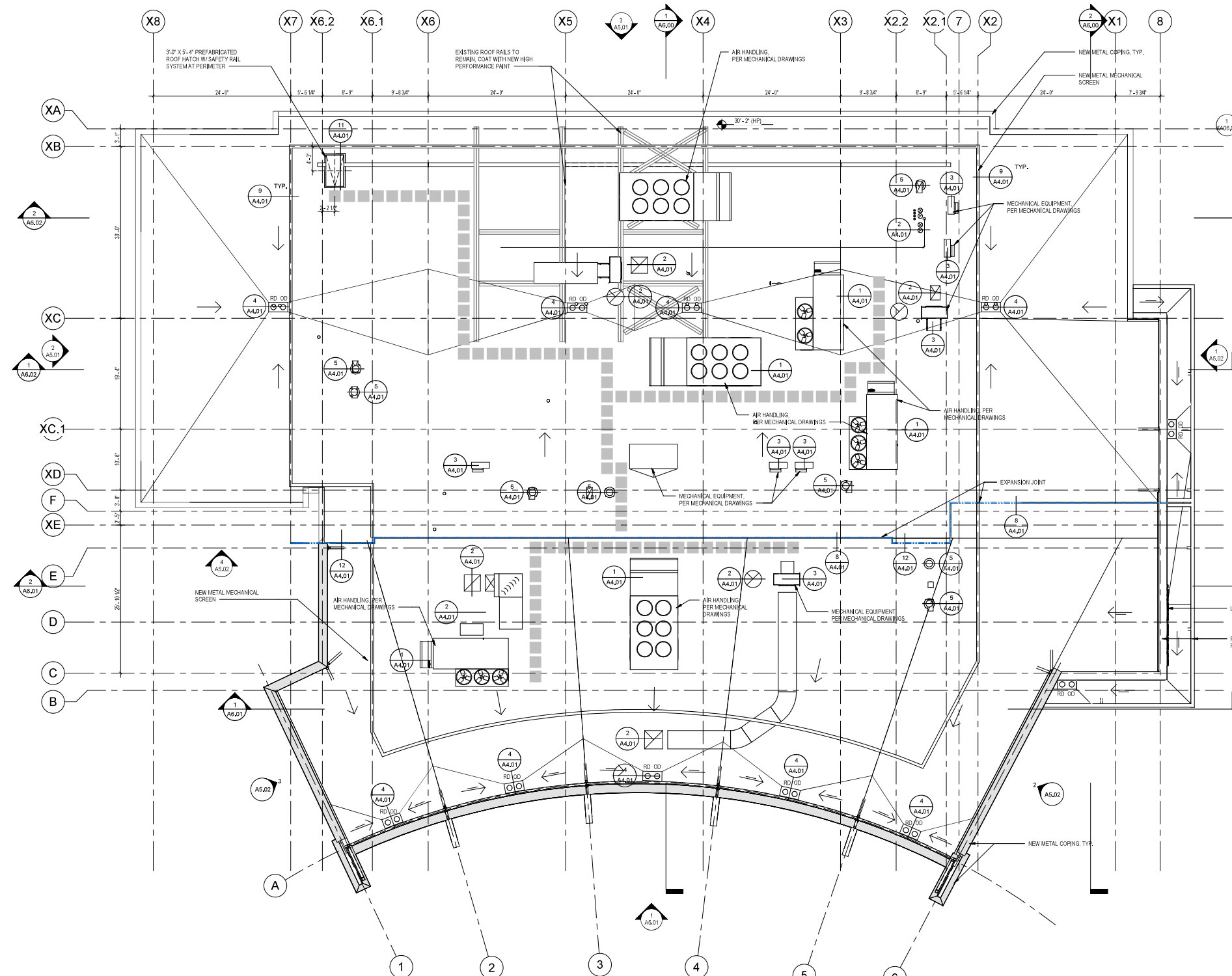
NO.	DESCRIPTION	DATE

CONSULTANTS:

gateway design studio
planning
landscape architecture
environmental design
30th ANNIVERSARY 1992
GATEWAY DESIGN STUDIO

COPYRIGHT W.M. B. ITTNER, INC. 2021
WBI PROJECT NO. 202010.01 GDS #021-08
DRAWING TITLE: **LANDSCAPE DEV. PLAN - SCIENCE BUILDING ADD.**
DRAWING NO. **L-2.1**
NEW ACADEMIC BUILDING AND ADMINISTRATION CENTER RENOVATION





ROOF PLAN GENERAL NOTES

- REFER TO THE MEP DRAWINGS FOR THE LOCATIONS/INDICATIONS OF MISCELLANEOUS VENTS AND/OR ROOF PENETRATIONS.
- UNIT / EQUIPMENT ROOF CURBS SHALL BE OF SUFFICIENT HEIGHT TO MAINTAIN A MINIMUM OF 12" FROM BASE OF THE UNIT / EQUIPMENT TO THE FINISHED SURFACE OF THE ROOF. UNLESS NOTED OTHERWISE, SEE UNIT / EQUIPMENT RECOMMENDED ROOF CURBS.
- ALL ROOF SLOPES TO BE A MINIMUM OF 1/4" PER FOOT, UNLESS NOTED OTHERWISE.
- 1/2" TAPERED INSULATION CRICKETS TO BE USED AT ALL ROOF TOP UNITS, CURBS, EQUIPMENT, AND ANYTHING IMPEDING THE DRAINAGE OF WATER.
- REFER TO STRUCTURAL DRAWINGS FOR STEEL SLOPES.
- PROVIDE STAINLESS STEEL FLASHING AT ALL VENT/PIPE STACKS. VENT/PIPE STACKS TO BE A MINIMUM OF 12" ABOVE THE FINISHED ROOF.
- SEE SHEET A4.01 FOR TYPICAL ROOF DETAILS.

ROOF PLAN LEGEND

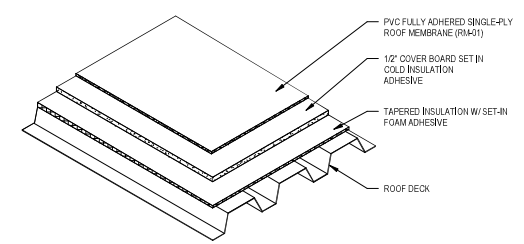
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	EXISTING ROOF HATCH TO REMAIN		ROOF SLOPE SLOPED STRUCTURE
	ROOF DRAIN		ROOF SLOPE TAPERED INSULATION 1/4" PER FOOT
	OVERFLOW DRAIN		ROOF SLOPE TAPERED INSULATION 1/2" PER FOOT
	NEW 2'X2' ROOF PAD		EXHAUST FAN/VENT FAN
	PLUMBING VENT STACK		ROOF DOWNSPOUT
	SADDLE HIGH SIDE OF ALL CURBS		EXPANSION JOINT



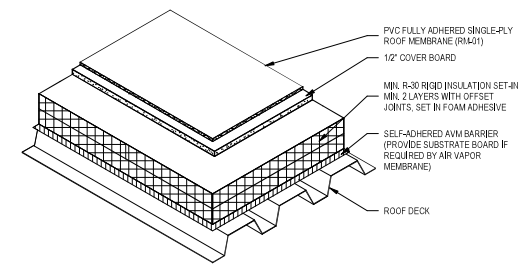
WM.B. ITTNER, INC.
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CONSULTANTS:

**LOGAN UNIVERSITY
FUHR SCIENCE CENTER**
1851 SCHOETTLE RD., CHESTERFIELD, MO 63017



2 CANOPY ROOF SECTION DETAIL
1 1/2" = 1'-0"



1 ROOF SECTION DETAIL
1 1/2" = 1'-0"

3 ROOF PLAN
1/8" = 1'-0"

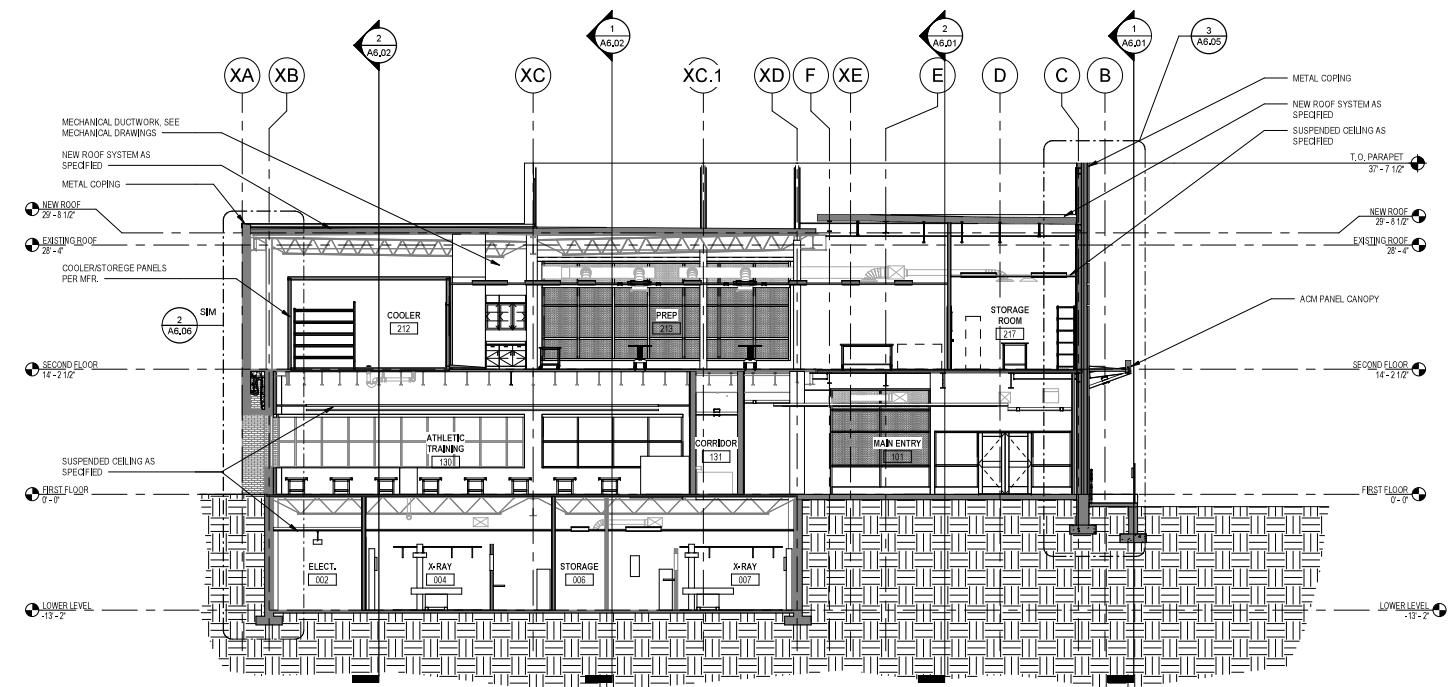
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202010.01

DRAWING TITLE
ROOF PLAN

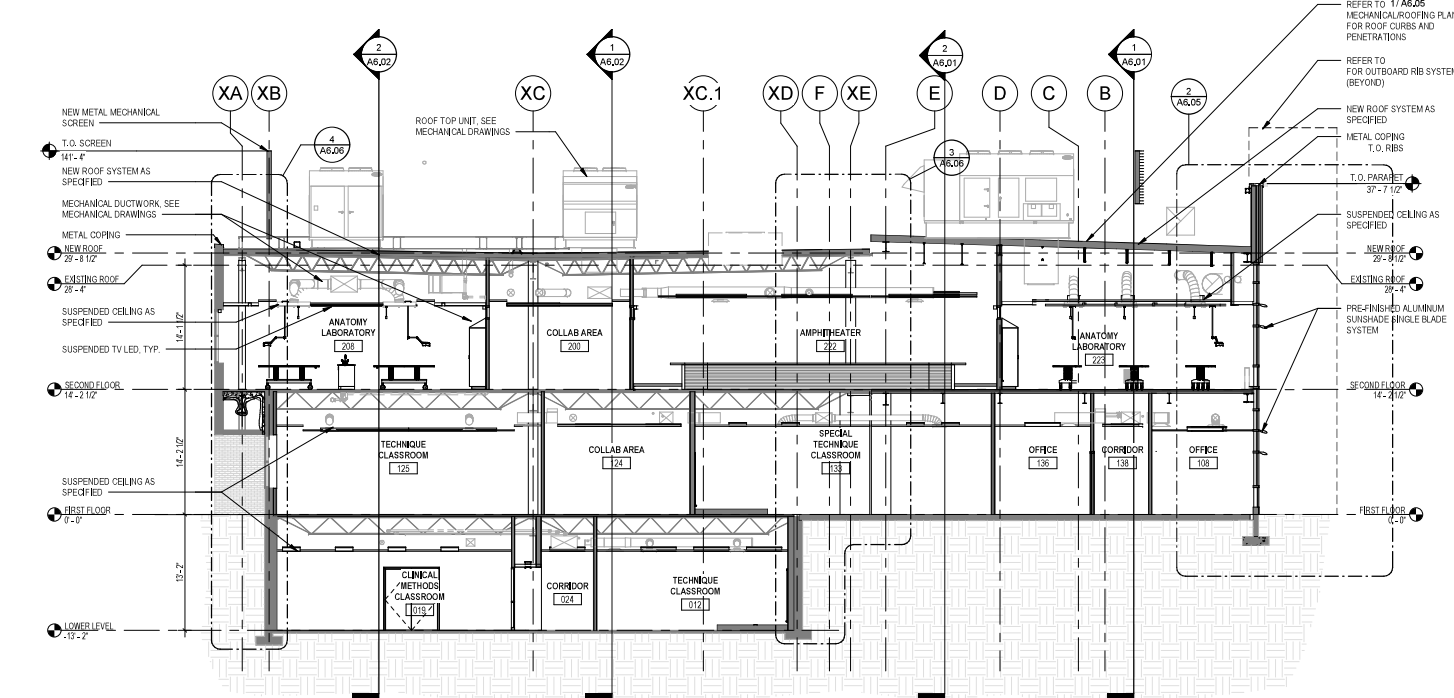
DRAWING NO.
A4.00
FUHR SCIENCE CENTER

100% CD OAC/C SET

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2 BUILDING SECTION - NORTH SOUTH
1/8" = 1'-0"



1 BUILDING SECTION - NORTH SOUTH
1/8" = 1'-0"

SEAL:

TODD D. POWERS, AIA
1/8" = 1'-0" ARCHITECTURAL DRAWING

ORIGINAL ISSUE DATE:
2.18.2022

REVISIONS:

NO.	DESCRIPTION	DATE



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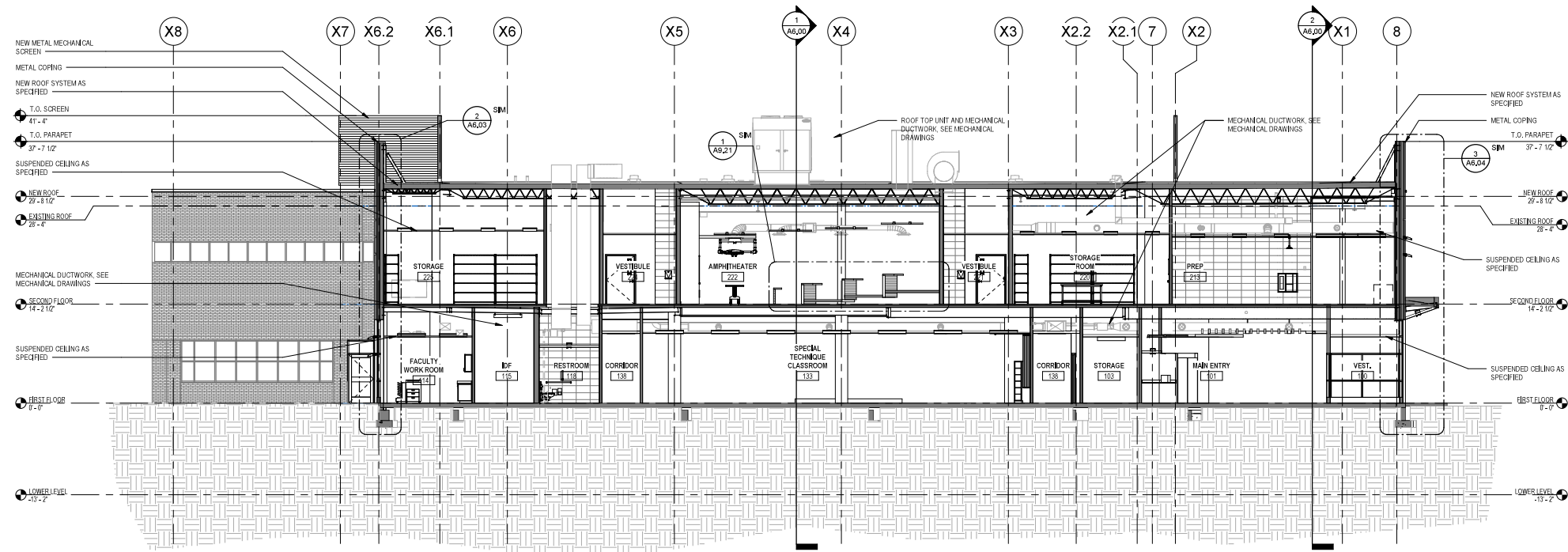
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BUILDING SECTIONS

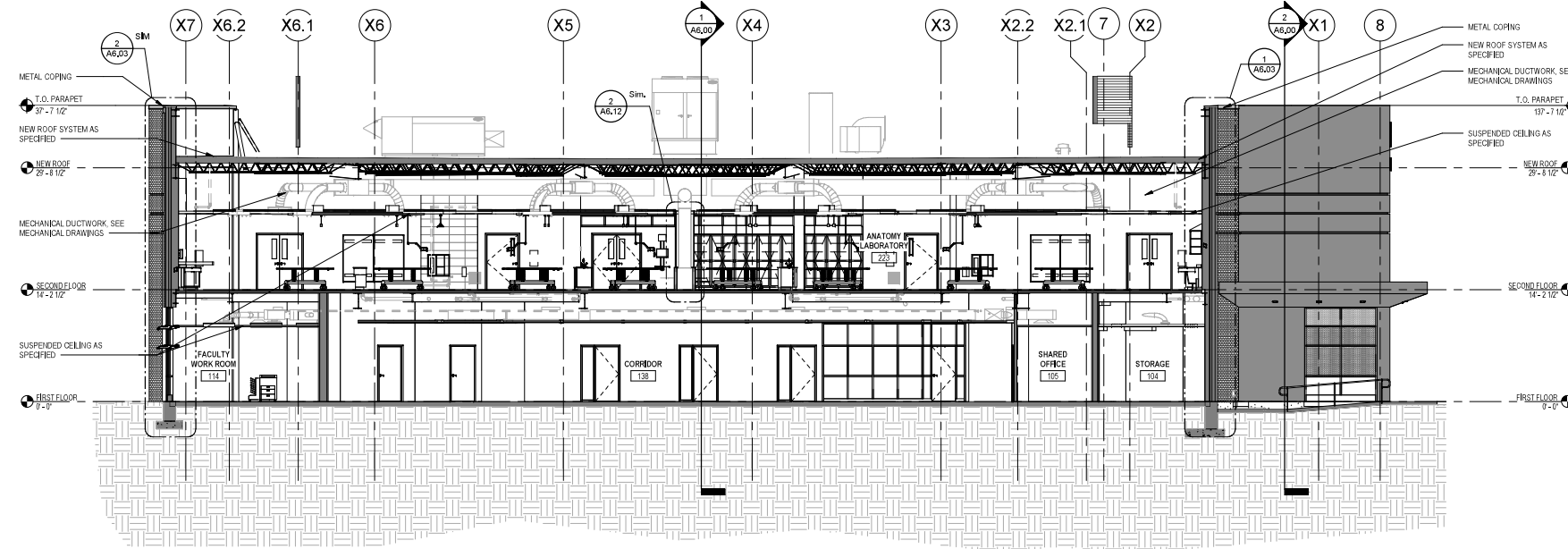
DRAWING NO.
A6.00
FUHR SCIENCE CENTER

100% CD OAGC SET

2/21/2022 11:24:43 PM



2 BUILDING SECTION - EAST WEST - NEW ADDITION
1/8" = 1'-0"



1 BUILDING SECTION - EAST WEST - NEW ADDITION
1/8" = 1'-0"

SEAL:
TODD D. POWERS, AIA
1/8" = 1'-0" (SCALE)
ORIGINAL ISSUE DATE:
2.18.2022
REVISIONS:
DESCRIPTION DATE



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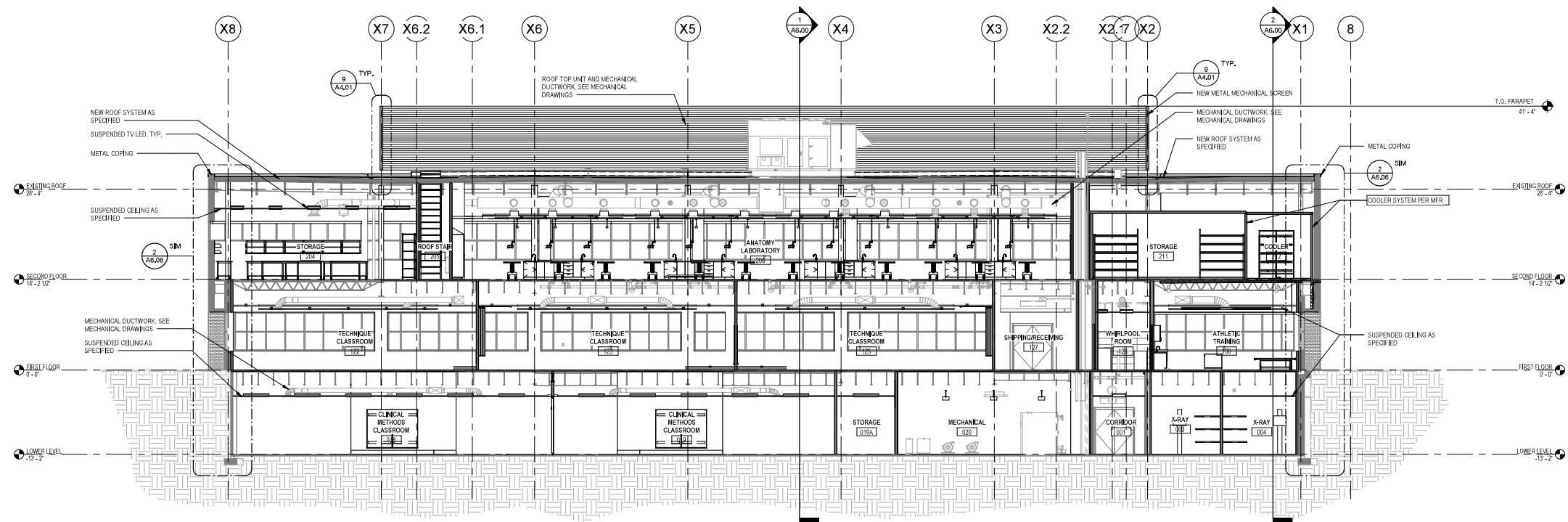
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202010.01

DRAWING TITLE:
BUILDING SECTIONS

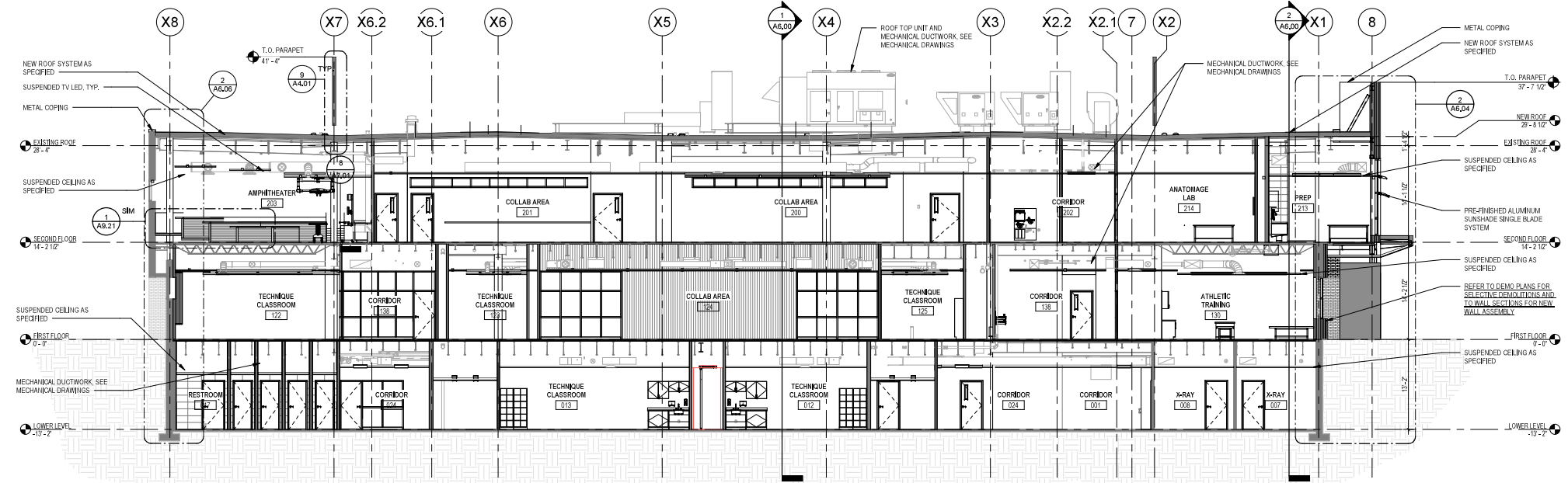
DRAWING NO.
A6.01
FUHR SCIENCE CENTER

100% CD OAGC SET

2/21/2022 11:24:50 PM



2 BUILDING SECTION - EAST WEST - EXISTING BUILDING
1/8" = 1'-0"



1 BUILDING SECTION - EAST WEST - EXISTING BUILDING
1/8" = 1'-0"

SEAL:

TODD D. POWERS, AIA
100% CD OAC/C SET

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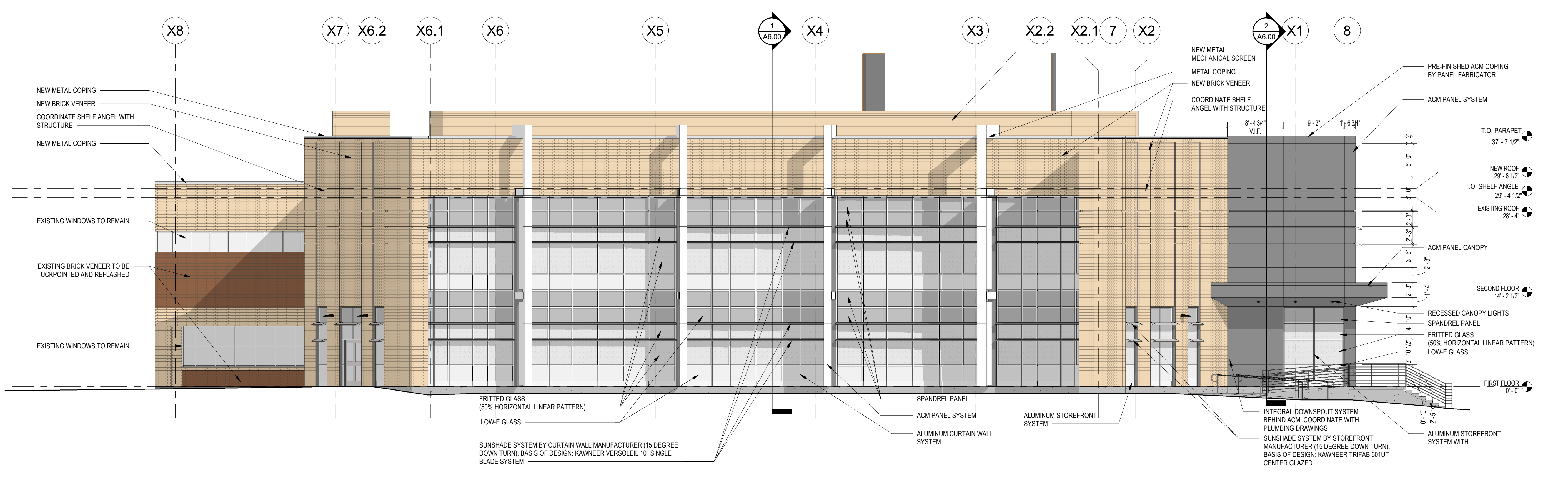
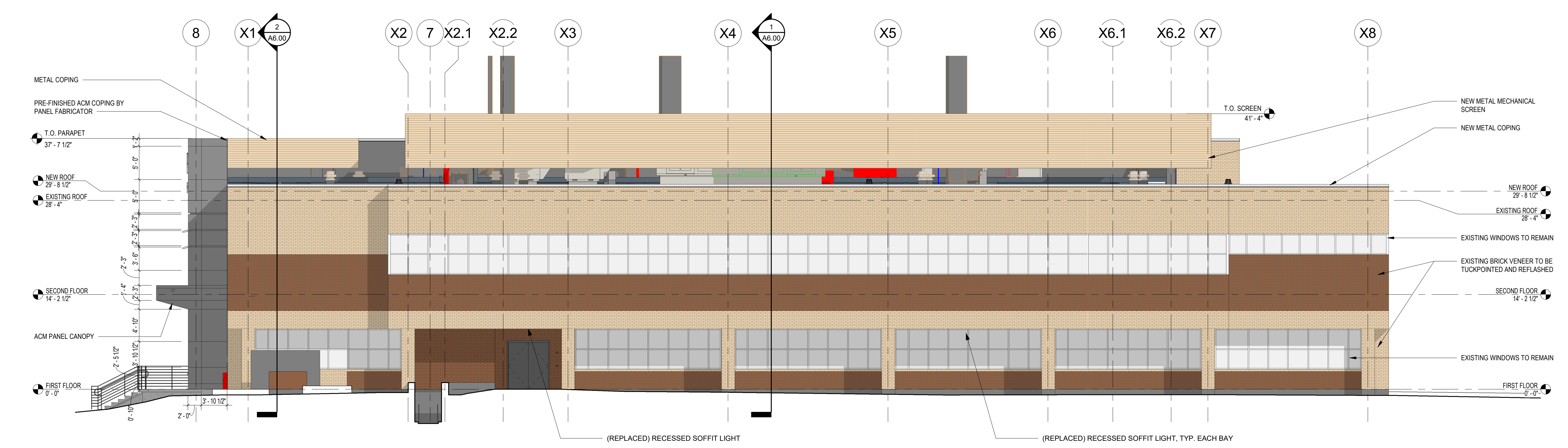
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202010.01

DRAWING TITLE:
BUILDING SECTIONS

DRAWING NO.
A6.02
FUHR SCIENCE CENTER

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SEAL:

RICHARD W. KEISYER
MO ARCHITECTURAL REGISTRATION NO. 200102388

ORIGINAL ISSUE DATE:
03.15.2022

REVISIONS:	DESCRIPTION	DATE

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CERTIFICATE OF AUTHORITY NO. 00004

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CEEC CIVIL ENGINEERING
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IT / AV / ACoustical / SECURITY
SHEN MILSON & WILKE, LLC
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SUITE 1400
CHICAGO, IL 60606

LOGAN UNIVERSITY
FUHR SCIENCE CENTER
1851 SCHOETTLER RD., CHESTERFIELD, MO 63017

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WB PROJECT NO.
202010.01

DRAWING TITLE:
BUILDING ELEVATIONS

DRAWING NO.
ASP 01
FUHR SCIENCE CENTER

February 18, 2022

RE: LOGAN UNIVERSITY AREA AND FAÇADE LIGHTING

Gentlemen:

Please find included with this submittal a photometric study of new exterior lighting associated with the addition to and renovation of the existing Science Building. Drawing E5.2, included, shows the results of the study.

1. The existing area lighting in the immediate area of the addition consists of short bollard fixtures. Other than removal/protection/re-installation to accommodate the new foundation work and repositioning of three bollards to accommodate realignment of pedestrian pathways, the general area lighting will ultimately be unmodified. The existing luminaires in question have cut-off optics as required. The photometric study depicted on E5.2 is intended to demonstrate compliance with the city lighting ordinance regarding light trespass but can only consider new luminaires or those impacted by new work because the surrounding existing custom post and pier lights not affected by the work are obsolete and electronic files are unavailable regardless.
2. The Science Building addition will have external egress doors requiring exterior egress lighting. We are proposing a couple of options for this application to the Architect and Owner.
 - a. An architectural sconce matching the design of the existing bollard fixtures and having fully shielded, cut-off, flat lensed optics as required.
 - b. A fully shielded, cut-off, flat lensed wall pack fixture in lieu of above for a less ostentatious appearance.

Elsewhere, downlights in a new exterior soffit will illuminate the main east terrace and ramps. The soffit is sloped, so the downlights will need adapters to make sure the illumination is truly vertical and glare free.

3. The Architect is proposing specialty accent lighting to illuminate the vertical fins of the south elevation of the building addition as a compliment to other buildings on the campus. Our photometric study of an accent upright proposes a spot optic that limits its width and height to the screen dimensions; the Owner's standard blue hue of the lighting will soften the overall result. The proposed fixture will be equipped with a glare reduction screen.

The submittal includes E5.3, a photometric study of a proposed Phase 2 parking lot at the south end of the campus. The drawing includes a partial cut sheet of the proposed luminaire, which will be fully shielded and have cut-off optics and flat lens. The twenty foot poles would be mounted on 3' high foundation pedestals; the lighting patterns are selected for sharp cut-off at the limits of the paving, with secondary lighting ending at 10' from the paving and no spillage beyond. Worst case vertical lighting is at 8.6 FC at the pole falling quickly to match the horizontal readings. The resulting statistics are compliant with Table 3 of the lighting ordinance.

Finally, we include a package of cutsheets and images for the luminaires proposed for the Science Building area, including the Kipp sconce and some evening images of it, the alternate Sternberg wall pack, the Halo downlight, and the in ground upright, also with evening image.

Note that all fixtures have low glare ratings, are designed to mitigate light spillage, and have high efficacy ratings; DLC (Cooper yes) and dark sky (Sternberg yes) compliance will vary between manufacturers. The selections are intended to maintain the campus lighting standards of safety and security without excessive glare and spillage.

Sincerely,

Cordogan Clark

Douglas A. Schomer, LEED AP
Electrical Designer

Kipp Wall

Project name:

Project type:

Notes:



Design

Alfred Homann

Product description

A conical-shaped luminaire atop a slender sculpted shaft with three die-cast aluminum arms. Luminaire is sealed by clear IK10 conical lens and features an inner opal diffuser concealing the COB LED Light Engine. Available in graphite or natural aluminum powder coat paint. The Kipp Wall is part of a family which includes a post top and bollard.

Variant options

Color	Light source	Lumen	Voltage frequency
<input checked="" type="radio"/> Black <input type="radio"/> Natural paint aluminum	30W LED/3000K 30W LED/4000K	1013 967	120-277V/60HZ

Light description

The luminaire emits a glare-free reflected light directed downwards and outwards. The LED is surrounded by a conical opal acrylic diffuser, ensuring a uniform light. Features good, functional and pleasant lighting comfort. Form of the luminaire can be appreciated illuminated at night as well as during the daylight. Available in 3000K and 4000K CCT, controlled by 0-10V dimmable driver.

Mounting

Surface: Mounting plate anchored to wall, centered over junction box. Plate is mounted through three 0.3 inch screw holes on a 9.7 inch circular diameter, spaced 120 degrees apart. Mounting hardware by others.

Information

Electrical:
 System Wattage: 30 W
 LED Wattage: 28 W
 Delivered lumens: 967 lm - 1,013 lm
 Efficacy: 32.2 - 33.8 lm/W
 Certifications:
 cULus, Wet Location
 Protection class IP55
 IK class 10
BUG Rating: B1-U3-G1
 Controllability: 0-10V Dimming
 Min.-Max. Ambient Temp: -40°C to +40°C
 Color Rendering: Ra≥80

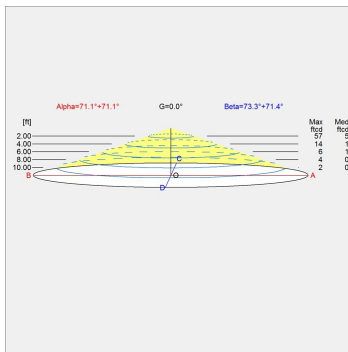
Finish

Black, Natural paint aluminum

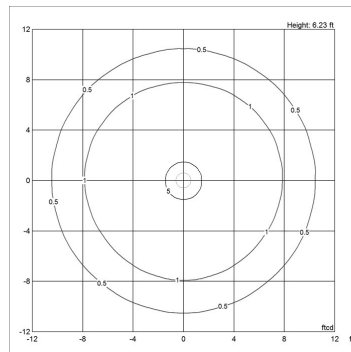
Light distribution diagrams

For the full data set on all variants, see louispoulsen.com.

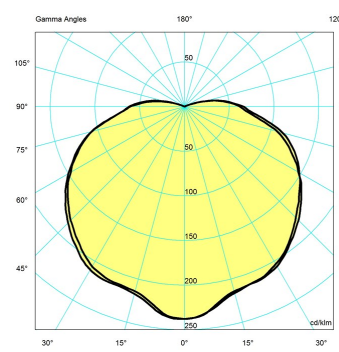
Cartesian



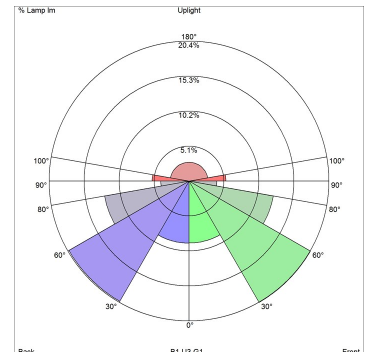
Isolux



Polar



Bug



Material

Diffuser: Injection molded white opal acrylic. Top shade: Die cast aluminum, 0.08" thick. Enclosure: Injection molded clear U. V. stabilized polycarbonate, 0.05" thick. Frame and wall bracket: Die cast aluminum, 0.06" thick. Standard finish are matte, textured surface powder coat with minimum 2 mils thickness in black or natural painted aluminum.

Weight

Min: 13.841 lbs Max: 13.841 lbs

Other functions

LED in 2700K or 3500K. Amber LED available for sea turtle nesting areas. **Custom finishes. Custom wall brackets. Alternative dimming controls, including wireless systems.**

Voltage

120-277V/60HZ





SOLANA® SL270

The Solana® SL270 Wall Mount Sconce is the perfect innovative solution to the myriad of lighting challenges when choosing wall mount sconces. The Solana's modern architectural design, durability and optical efficiency, makes this an obvious choice for perimeter lighting.



SternbergLighting

ESTABLISHED 1923

PROJECT: _____

TYPE: _____

ORDERING EXAMPLE: 1W-SL270-CA-36L45T3-MDL03-PEC-MOT1-FHD-CB-EM / UWHT

SL270													
MOUNTING CONFIG.	SERIES	LENS	NO. OF LEDS	COLOR TEMP K	DISTR. TYPE	DRIVER	CONTROLS	MOTION SENSOR	DUAL FUSE & HOLDER	CONDUIT BOX	EMERGENCY	COLOR	
1W	Wall Mount Sconce	CA	36L ¹	27(00) K	T2	MDL03	OPTIONS					UGMT	UGM
		FG	44L	35(00) K	T3	MDL05	PEC	MOT1 ²	FHD	CB	EM ³	UBT	UB
		FFG	52L	45(00) K	T3R	MDH03	PEC4	MOT2 ²				USLT	USL
		SV1*	¹ Not available in 05 driver		T4	MDH05						UWHT	UWH
		SV2**			T5							BKT	

² Requires acrylic lens (CA, SV1, or SV2)

³ Requires conduit box (CB)

Product Specs

Optical

- BUG rating of U-0.
- IP65 rated optic module.
- Available in IES Type 2, 3, 3R, 4 and 5 distribution.
- Utilizes high output, high brightness LEDs.
- Typical CRI of 70, CCT 2700, 3500, and 4500. Call factory for custom CCT.
- LM-79 and LM-80 tests in accordance with IESNA standards.
- Lumen depreciation rating L₇₀ > 100,000 hrs. projected per TM-21 guideline using 525mA drive at 25°C ambient.
- RoHS Compliant.

Electrical

- 120-277 volt and 347-480 volt available.
- Minimum drivers power factor: >0.9.
- Electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines.
- UL listed in U.S. and Canada

Mechanical

- All cast aluminum housing.
- Tool-less driver access and removeable driver tray.
- AAD™ "Advanced Air-flow Dynamics" maximizes heat sink expulsion.

Controls

- Supplied with a dimmable driver.
- Optional electronic button photocell PEC (120-277V), PEC4 (480v).

Finish

- Durable, color retentive powder coat finish.

Warranty & Standards

LED Systems and Drivers - **7 years.**
All fixtures shall be free from all defects in materials and workmanship for a period of 7 years from the date of manufacture. The luminaire manufacturer shall warrant the LED boards/system, during the stated warranty period, against failure defined as more than 10 percent of non-operating LEDs.

Motion Sensors:

- MOT1²:** 360° lens, maximum coverage 40' diameter from 20' height
- MOT2²:** 360° lens, maximum coverage 70' diameter from 20' height

² Note: Requires acrylic lens

Drivers:

- MDL03:** 350mA, 120-277V
- MDL05:** 525mA, 120-277V
- MDH03:** 350mA, 347-480V
- MDH05:** 525mA, 347-480V

Lens:

- CA** - Clear Flat Acrylic
- FG** - Clear Flat Glass
- FFG** - Frosted Flat Glass

Soft Vue:

- SV1*** - Flat Soft Vue Medium Diffuse Acrylic
 - SV2**** - Flat Soft Vue Heavy Diffuse Acrylic
- *Provides moderate reduction in Brightness while only a minimal reduction in lumen output. **Provides maximum reduction in Brightness while only a nominal reduction in lumen output. Consult photometric files for exact lumen performance as percentages noted are averages.

Colors:

- UGMT** - Urban Gun Metal Textured
- UBT** - Urban Bronze Textured
- USLT** - Urban Silver Textured
- UWHT** - Urban White Textured
- BKT** - Black Textured
- UGM** - Urban Gun Metal Matte
- UB** - Urban Bronze Matte
- USL** - Urban Silver Matte
- UWH** - Urban White Matte

EPA: 0.4 Square Ft

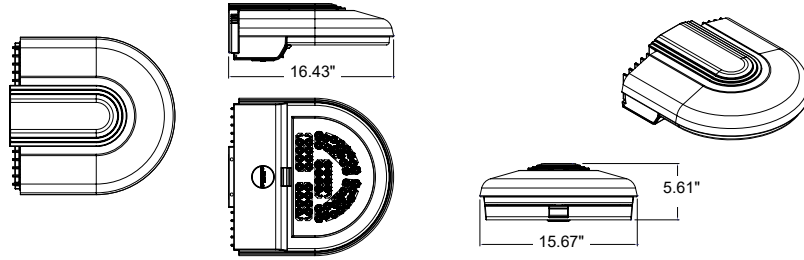
Weight: 30 LBS

Performance (Based on FG Lens)

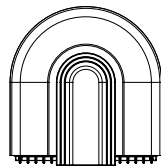
MODEL #	T2 LUMENS	BUG	EFFICACY (LPW)	T3 LUMENS	BUG	EFFICACY (LPW)	T3R LUMENS	BUG	EFFICACY (LPW)	T4 LUMENS	BUG	EFFICACY (LPW)	T5 LUMENS	BUG	EFFICACY (LPW)	WATTS
52L45T_-MDL05	7540	B2U0G2	82.9	7200	B2U0G2	79.1	7355	B2U0G2	80.8	7285	B2U0G2	80.1	7165	B3U0G3	78.7	91
52L35T_-MDL05	7080	B2U0G2	77.8	6760	B2U0G2	74.3	6910	B2U0G2	75.9	6840	B2U0G2	75.2	6730	B3U0G3	74.0	91
52L27T_-MDL05	6215	B2U0G2	68.3	5935	B2U0G2	65.2	6065	B2U0G2	66.6	6005	B1U0G2	66.0	5905	B2U0G2	64.9	91
44L45T_-MDL05	6390	B2U0G2	81.9	6080	B2U0G2	77.9	6230	B2U0G2	79.9	6170	B1U0G2	79.1	6035	B2U0G2	77.4	78
44L35T_-MDL05	6000	B2U0G2	76.9	5710	B2U0G2	73.2	5850	B2U0G2	75.0	5795	B1U0G2	74.3	5670	B2U0G2	72.7	78
44L27T_-MDL05	5265	B2U0G2	67.5	5010	B2U0G2	64.2	5135	B2U0G2	65.8	5085	B1U0G2	65.2	4975	B2U0G2	63.8	78
52L45T_-MDL03	5525	B2U0G2	90.6	5310	B2U0G2	87.0	5435	B2U0G2	89.1	5375	B1U0G2	88.1	5275	B2U0G2	86.5	61
52L35T_-MDL03	5190	B2U0G2	85.1	4985	B2U0G2	81.7	5105	B2U0G2	83.7	5050	B1U0G2	82.8	4955	B2U0G2	81.2	61
52L27T_-MDL03	4555	B2U0G2	74.7	4375	B2U0G2	71.7	4480	B2U0G2	73.4	4430	B1U0G2	72.6	4350	B2U0G2	71.3	61
44L45T_-MDL03	4680	B2U0G2	90.0	4480	B2U0G2	86.2	4590	B2U0G2	88.3	4570	B1U0G2	87.9	4425	B2U0G2	85.1	52
44L35T_-MDL03	4395	B2U0G2	84.5	4210	B2U0G2	81.0	4310	B2U0G2	82.9	4290	B1U0G2	82.5	4155	B2U0G2	79.9	52
44L27T_-MDL03	3860	B1U0G1	74.2	3695	B1U0G1	71.1	3785	B1U0G1	72.8	3765	B1U0G1	72.4	3650	B2U0G2	70.2	52
36L45T_-MDL03	3875	B1U0G1	90.1	3740	B1U0G1	87.0	3800	B1U0G1	88.4	3795	B1U0G1	88.3	3785	B2U0G2	88.0	43
36L35T_-MDL03	3640	B1U0G1	84.7	3515	B1U0G1	81.7	3570	B1U0G1	83.0	3565	B1U0G1	82.9	3555	B2U0G2	82.7	43
36L27T_-MDL03	3195	B1U0G1	74.3	3085	B1U0G1	71.7	3130	B1U0G1	72.8	3130	B1U0G1	72.8	3120	B2U0G2	72.6	43

Product Dimensions and Features

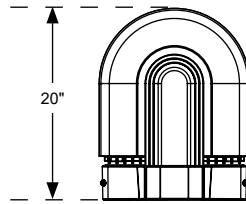
EPA: 0.4 SQUARE FT
WEIGHT: 30 LBS



Mounting Configurations

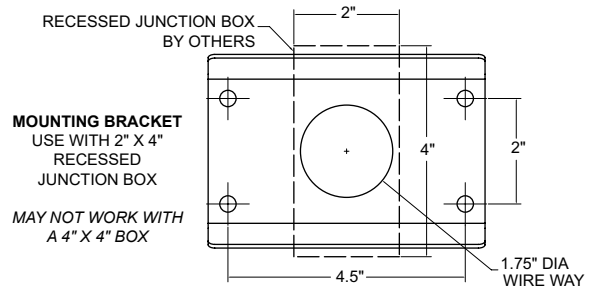
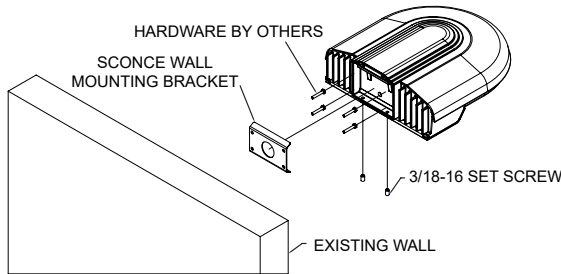


SINGLE

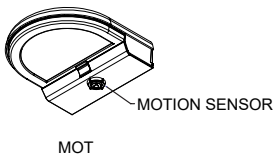


CONDUIT BOX OR EM MOUNTING

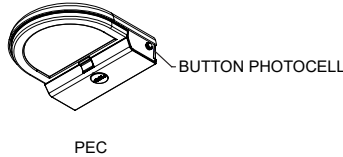
Mounting Details



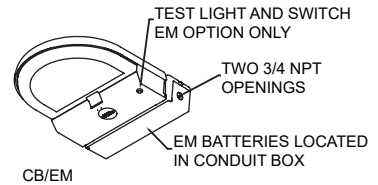
Other Options



MOT

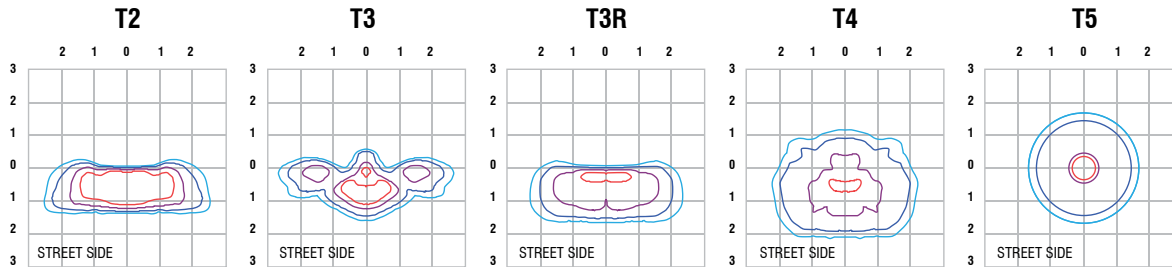


PEC



CB/EM

ISO Footcandle Plots



All published luminaire photometric testing performed to IESNA LM-79 standards by NVLAP, certified laboratory. ISO footcandle plots above demonstrate the SOLANA'S light patterns only. Not for total fixture output. For complete specifications and IES files, see website.

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

RL6 Slope Ceiling | Direct Mount

6" Slope Ceiling LED Direct Mount Module
1500 Lumen Series

Typical Applications

Residential

Interactive Menu

- Order Information [page 2](#)
- Product Specifications [page 2](#)
- Energy Data [page 3](#)
- Photometric Data [page 3](#)
- Product Warranty

Product Certification



Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.
Certified to California Appliance Efficiency Database under JAB.

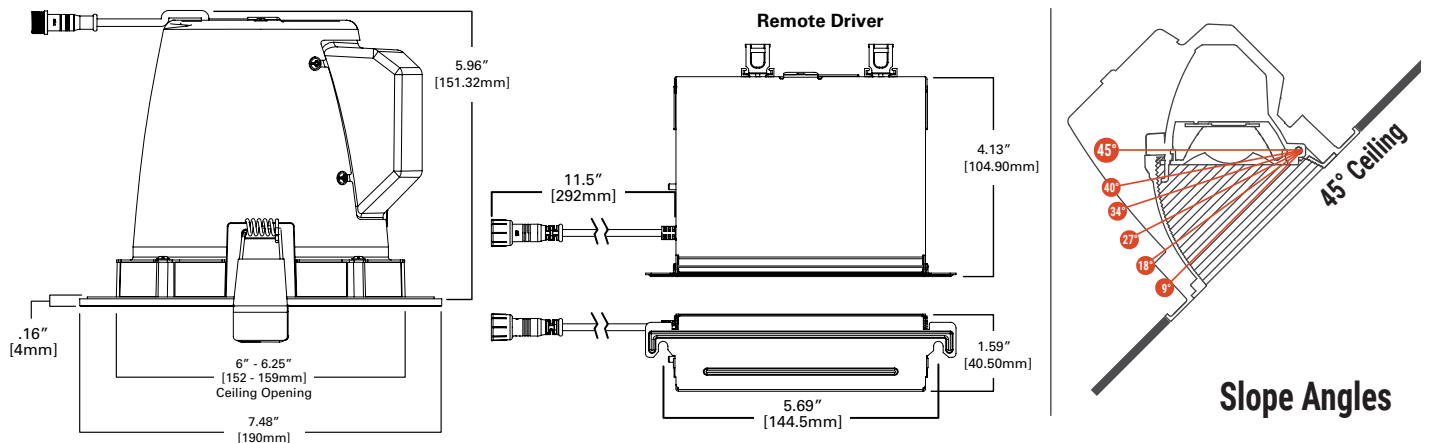
Product Features



Top Product Features

- Adjusts from 9° to 45° to match virtually any ceiling pitch
- Select from 5 CCTs via switch: 2700K, 3000K, 3500K, 4000K, 5000K
- Canless installation, no housing required
- 120V input, phase cut dimming to 5%
- Perfect for new construction or remodel work

Dimensional and Mounting Details



Order Information

SAMPLE ORDER NUMBER: **RLS6159FS1EWHDMR**

A complete luminaire consists of an LED module and remote driver/junction box.

Models	Lumens	CRI/CCT	Driver	Finish	Mounting	Packaging
RLS6 = 6" RL Slope Ceiling direct mount module	15 = 1500 lumen series (nominal)	9FS = 90 CRI min, 5-color selectable CCT	TE = 120V 60Hz, LE & TE phase cut 5% dimming	WH = Matte white baffle	DM = Direct Mount	R = recyclable 4-color unit carton
Notes	Notes	Notes	Notes	Notes	Notes	Notes

Accessories

Accessories
<p>Mounting Frame HL6RSMF = 6" round and square new construction mounting frame</p> <p>Extension Cable seleCCTable Driver/Jbox HLB06FSEC - 6 ft. extension cable HLB12FSEC - 12 ft. extension cable HLB20FSEC - 20 ft. extension cable</p>

Product Specifications

Module

- LED module consists of LED (chip on board), optical assembly, driver and self-flanged trim
- Regressed baffle style trim
- Achieving L70 at 50,000 hours in IC and non-IC applications
- Adjustment mechanism tilts the light engine from 9° up to 45° to match 2/12 to 12/12 ceiling pitches

Gaskets

- Closed cell gasket achieves restrictive airflow requirements without additional caulking

LED

- Chip on board LEDs provide a uniform source with high efficiency and no pixilation
- Available in 90 CRI minimum, R9 greater than 50 and color accuracy within 4 SDCM provide color accuracy and uniformity
- Available in 5-color field selectable CCT: 2700K, 3000K, 3500K, 4000K, 5000K

Optical Assembly

- Optical assembly provides flood distribution useful for general and task lighting in sloped ceiling applications
- Diffuse injection molded lens with contoured profile provides uniformity and a familiar lamp like appearance
- Meets ENERGY STAR® color angular uniformity requirements

Junction Box

- Die formed metal driver / junction box with captive hinged junction box cover
- Listed for (6) #12 AWG 90° C splice conductors, 2-in, 2-out plus (2) ground
- (3) ½" conduit pry-outs
- (2) Slide-N-Side™ non-metallic (NM) wire traps accept 14-2, 14-3, 12-2, 12-3 U.S. and 14-2, 14-3, 12-2 Canadian NM cable
- (3) 4-port push wire nuts for quick and reliable mains voltage connections
- Integral mounting facilitates direct mounting to building structure or mounting frame

Driver

- Remote 120V 60 Hz constant current driver provides high efficiency operation
- Continuous, flicker-free dimming from 100% to 5% with select leading or trailing edge 120V phase cut dimmers – consult dimming guide for more information
- Consult dimmer manufacturer for compatibility and conditions of use

Installation

- Can be installed in 1/2" to 1-1/4" thick ceilings
- Round ceiling cutout
- Heat treated springs hold fixture fitting securely in the ceiling eliminating light leaks
- Can be removed from below the ceiling for service or replacement

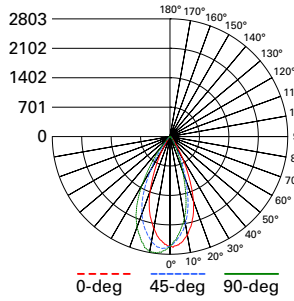
Compliance

- UL Certified for US and Canada, type IC suitable for direct contact with air permeable insulation
- Not for use in direct contact with spray foam insulation, reference NEMA LSD57-2013
- Damp location listed
- Air-tite per ASTM-E283
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions per FCC 47CFR Part 15 consumer limits
- Contains no mercury or lead and is RoHS compliant
- Photometric testing in accordance with IES LM79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- Compliant with California Title 24 High Efficiency LED under JA8, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2019 JA8 High Efficacy Lighting
- ENERGY STAR® certified, reference "Certified Light Fixtures" database

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Photometric Data



RLS6159FS1EWHDM-3000K
 Spacing criterion: (0-180) 1.19
 (90-270) 1.19
 (Diagonal) 1.28
 Beam Angle: 45°
 Field Angle: 70°
 Lumens: 1630
 Input Watts: 19 W
 Efficacy: 85.8 LPW
 Test Report:
 RLS6159FS1EWHDM 3000K.ies

Zonal Lumen	Lumens	% Lumens
0-30	1271	78
0-40	1492	91.5
0-60	1603	98.3
0-90	1625	99.7

TM-30-15	Rf = 93
	Rg = 99
CRI/CIE	Ra = 96
	R9 = 71

CCT - Range of 2700K- 5000K



45°

Energy Data

Energy Data @ 3000K	
Lumens	1500 Series
Input Voltage	120V
Input Current	157.7 (mA)
Input Power	19.0 (W)
Efficiency	85.8 (LPW)
Inrush (A)	3.3 (A)
THD: ≤ 20%	
PF: ≥ 0.90	
T Ambient -30 - +40°C	
Sound Rating ≤ 22dBA	

RLS6-DM	CCT	Lumens	Power (W)	LPW
Field Selectable CCT	2700K	1588	19.0	83.6
	3000K	1630	19.0	85.8
	3500K	1670	19.0	87.9
	4000K	1705	19.0	89.7
	5000K	1745	19.1	91.4

Product Specifications

RLS6099FS1EWHDMR

PRODUCT SPECIFICATIONS	
Lumens	1630
Watts	19.0
Lumens Per Watt (Efficacy)	85.8
Color Accuracy (CRI)	94
Light Color (CCT)	3000K
Correlated Color Temperature (CCT)	
2700K	3000K
4500K	6500K

suelo



The real strength of the Suelo range is its sheer variety. Efficient, versatile, and safe, with a hardwearing flange, a black silkscreened protective screen for increased visual comfort, and the AquaStop® patented protection system, Suelo has been completely redesigned, with drive-over uplights offering unmistakable Linea Light Group quality.

Materials

Aluminum body

AISI 316L stainless steel flange



suelo range



	2 W	4.2 W	7.2 W	13 W	30 W
Suelo_R ○	Ø 1.2 in	Ø 2.5 in	Ø 3.6 in	-	-
Suelo_RJ ○	-	Ø 2.5 in	Ø 3.6 in	-	-
Suelo_RX ○	-	-	Ø 4.7 in	Ø 6.7 in	Ø 9.1 in
Suelo_RXJ ○	-	-	Ø 4.7 in	Ø 6.7 in	-
SueloPRO_R ○	Ø 1.4 in	Ø 2.5 in	Ø 3.6 in	-	-
SueloPRO_RX ○	Ø 2 in	-	Ø 4.7 in	Ø 6.7 in	-
Suelo_RX Double ○	-	-	-	Ø 6.7 in (12W)	Ø 9.1 in (24W)
Suelo Telescopic ○	-	-	-	Ø 7.9 in	Ø 7.9 in (25W)
Options	PRO_R, PRO_RX	_R, PRO_R PRO_R	_R, _RX, PRO_R, PRO_RX PRO_R, PRO_RX	_RX, PRO_R, PRO_RX _RX, PRO_RX	_RX _RX
CRI 80	2700K 3000K 4000K	2700K 3000K 4000K	2700K 3000K 4000K RGBW (_RX)	2700K 3000K 4000K RGBW (_RX)	2700K 3000K 4000K RGBW (_RX)
Standard	08° 15° 30° 60° 90° Diffused	10° 20° 30° 60° 90° Diffused Elliptic Asymmetric	06° 15° 20° 30° 60° 105° Diffused Elliptic Asymmetric	06° 15° 30° 35° 45° 60° Diffused Asymmetric	06° 15° 30° 35° 60° Asymmetric
Optics					
Pro	15° 30° 60° Elliptic Diffused	20° 30° 50°	06° 15° 30° 60°	15° 30° 60° Asymmetric	-
Driver	Remote	Remote	Remote	Remote 120-277V On/Off (PRO_RX, _RX Double)	Remote 120-277V On/Off (_RX, _RX Double)
Current	C.C. C.V.	C.C. C.V.	C.C. C.V.	C.C.	C.C.

The range

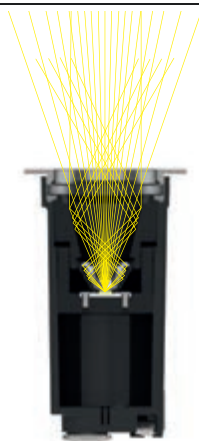
The Suelo family offers a variety of solutions for every design need: fixed and tiltable versions, small-flanged flush-mount uplights. There are PRO models with recessed optics. RGBW engines and beam control filters are also available. All models have the exclusive AquaStop® protection systems, and there are versions with 24V converters.



Visual comfort

Suelo fixtures with honeycomb louver, screen secondary light and reduce glare, maintaining a high-quality light. A darklight filter directs the illumination onto the intended part of the wall by sectioning part of the beam, and prevents glare even close to the source.

For full beam control and a drastically reduced glare risk, choose the Suelo PRO versions, in which the recessed source increases the screening angle, totally skimming off the secondary flow to give a cleaner, more concentrated and efficient light.



Suelo PRO



Suelo + Honeycomb



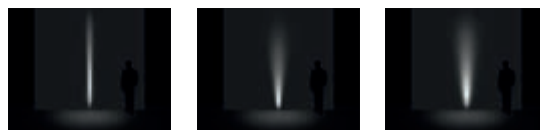
Suelo + Darklight

Performance and control

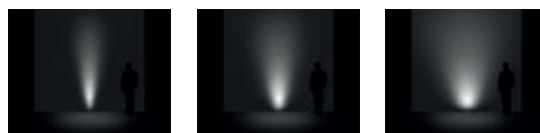
Six outputs to choose from, ranging from 1 to 30 watts, three color temperatures including warm light at 2700 and 3000K, and daylight at 4000K.

The uniquely wide spectrum of optics includes an elliptical, a wall wash for high, narrow walls, and an asymmetric version that gives an even, homogeneous wash.

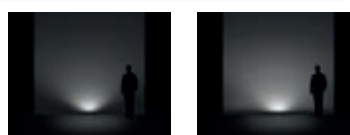
Spot



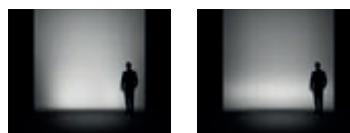
Flood



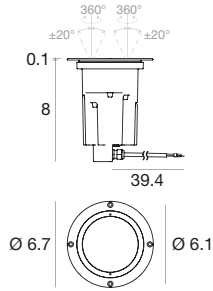
Diffused



Asymmetric



Suelo_RX Double | Screw-in | Up-Light | arrayLED | 120-277V | Wet location | Integral Driver | Adjustable | Driver over | 13.5W 350mA



On/Off

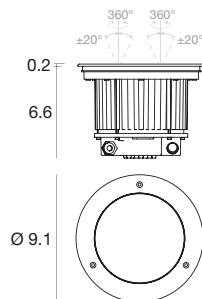
Steel	Alu	E81619	2700K	1114 lm	M	Spot	15
			3000K	1176 lm	W	Medium Flood	30
			4000K	1300 lm	N	Flood	60

Recessed casings



E84932
Outer casing for ground-mounting installation

Suelo_RX Double | Screw-in | Up-Light | arrayLED | 120-277V | Wet location | Integral Driver | Adjustable | Driver over | 26W 700mA



CRI 80

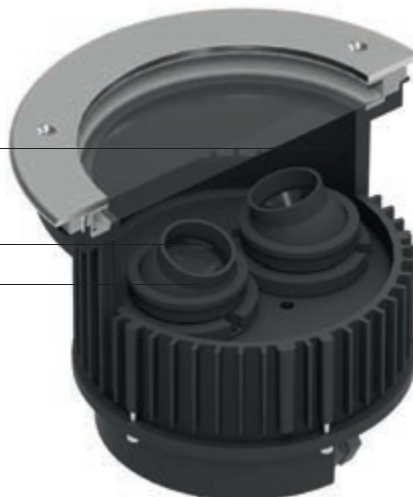
Steel	Alu	E81620	2700K	2207 lm	M	Spot	15
			3000K <th>2377 lm</th> <th>W</th> <th>Medium Flood</th> <th>30</th>	2377 lm	W	Medium Flood	30
			4000K	2547 lm	N	Flood	60

Recessed casings



E99794
Outer casing for ground-mounting installation

- Receded optical compartment
- Independent tilting
- Optics customisable separately upon request



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technical information