


## Planning Commission Staff Report

**Meeting Date:** May 9, 2022

**From:** Chris Dietz, Planner 

**Location:** 1851 Schoettler Rd.

**Description:** **Logan University (ASP):** An Amended Site Plan, Landscape Plan, Lighting Plan and Architectural Elevations 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. (20R430046).

### **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. The proposed building addition will feature accent lighting. The request includes minor changes to site landscaping. Parking will not be significantly impacted by the addition.

### **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.



*Figure 1: Subject Site*

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.

**ZONING AND LAND USE**

The site is zoned “NU”—Non Urban and adheres to the provisions of this non-active, conventional zoning district. The site’s current use—*collegiate school*—is permitted within this district and the site is well-over the minimum area requirements for this type of use.

Direction	Zoning	Land Use
North	“R-2”—Residence District	SF Residential/Conservation
South	“R-1A”—Residence District	SF Residential
East	“R-1A”—Residence District	SF Residential
West	“R-2”—Residence District	SF Residential

Table 1: Adjacent Zoning and Land Use

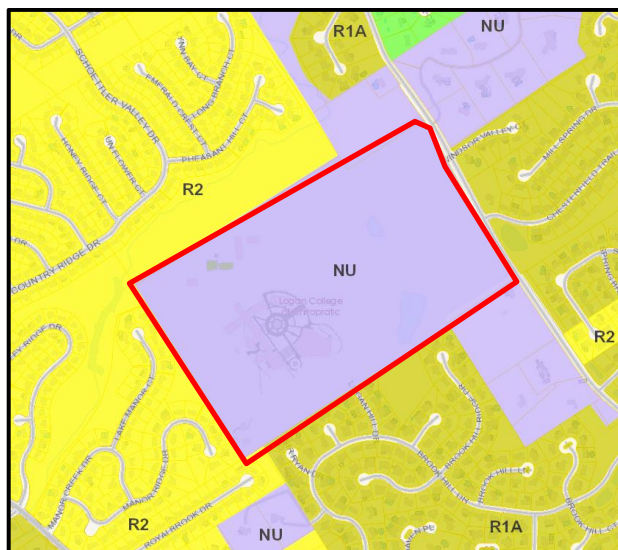


Figure 2: Zoning Map



Figure 3: Land Use Map

**COMPREHENSIVE PLAN**

The City of Chesterfield Comprehensive Plan designates this site as within the Suburban Neighborhood character area, which is typically developed as a neighborhood for single-family detached homes with uniform housing densities.

**STAFF ANALYSIS**

**Circulation, Access and Parking**

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. Parking is provided to the north, east, and west of the existing building. 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 4 and 5:



*Figure 4: Building Addition Footprint*



Figure 5: Colored Site Plan

### Landscaping

Minor landscape changes are taking place to accommodate the addition of this building, including removal of trees where the addition is to be located. The new plantings will consist of a variety of deciduous, evergreen and ornamental varieties around the new addition.

### Lighting

Expansion of the science building requires the relocation of some of the existing campus standard bollards to accommodate the addition. New wall pack fixtures will be located on the east and west side of the addition near the entrances to the building. Soffit lighting will be used underneath the canopy on the east elevation near the main entrance, and will be used to upgrade current soffit lighting around the existing building. Decorative uplighting fixtures will be placed at the base of each column on the south elevation. This particular fixture can be approved by Planning Commission if no off-site glare light trespass in excess of 0.5 foot-candle is produced and the proposed fixtures will improve the appearance of the site. To this end, the applicant has provided cutsheets and a lighting exhibit on the lighting plan depicting no illumination past the roofline. This exhibit is included in the Planning Commission packet.

### Architectural Elevations

The new building addition will incorporate similar colors and materials found on the existing building. There will also be new materials such as metal paneling around the entrance as well as glass featured on the south of the building with metal column accents. The rooftop equipment is set back toward the center of the building and will be totally screened by the 8'0" parapet and



**STAFF RECOMMENDATION**

Staff has reviewed this proposed development and found it to be in compliance with the City’s Comprehensive Plan and Unified Development Code. All outstanding comments have been addressed at this time. Staff recommends approval of this Amended Site Plan for Logan University.

**MOTION**

The following options are provided to the Planning Commission for consideration relative to this application:

- 1) “I move to approve (or deny) the Amended Site Plan, Landscape Plan, Lighting Plan and Architectural Elevations for Logan University, as presented.”
- 2) “I move to approve the Amended Site Plan, Landscape Plan, Lighting Plan and Architectural Elevations for Logan University, with the following conditions...”  
(Conditions may be added, eliminated, altered or modified)

Attachments

1. Amended Site Plan Packet

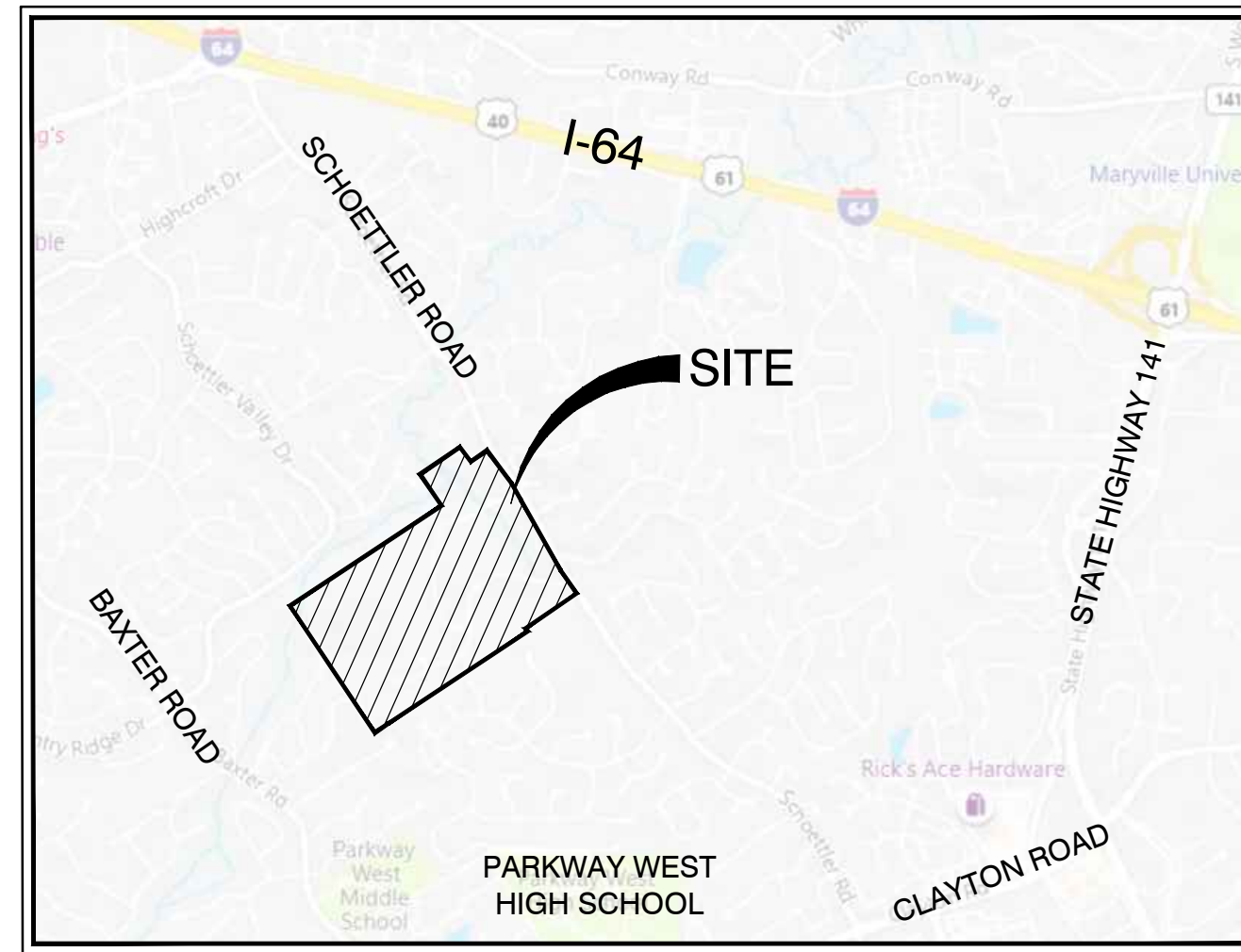
# 3<sup>rd</sup> AMENDED SITE PLAN

for

# LOGAN UNIVERSITY

situated in part of U.S. Surveys 412 and 1890,  
Township 45 North, Range 4 East

CITY OF CHESTERFIELD  
ST. LOUIS COUNTY, MISSOURI



LOCATION MAP  
N.T.S.

### PROPERTY DATA

OWNER	=	LOGAN COLLEGE OF CHIROPRACTIC INC
ADDRESS	=	1851 SCHOETTLE ROAD
LOCATOR NO.	=	20R430046
ACREAGE	=	102.43± AC
ZONING	=	NU (NON URBAN DISTRICT)
FIRE DISTRICT	=	MONARCH FIRE PROTECTION DISTRICT
SCHOOL DISTRICT	=	PARKWAY WEST
WATER SHED	=	MISSOURI RIVER (Creve Coeur Creek)
FEMA MAP	=	29189C0170 K

### UTILITIES AND REVIEW AGENCIES

<b>ELECTRIC COMPANY</b> AMEREN Missouri ELLISVILLE Operating Center 290 OLD STATE ROAD ELLISVILLE, MO 63021 ATTN: ENGINEERING PH. (314) 962-8992	<b>CABLE TELEVISION</b> CHARTER COMMUNICATIONS 101 NORTHWEST PLAZA DRIVE ST. ANN, MO 63074 DLCentralStatesConstruction@charter.com
<b>PHONE COMPANY</b> AT&T 1010 PINE STREET, RM 20E-D-01 ST. LOUIS, MO 63101 ATTN: FIRE MARSHAL PH. (314) 514-0900	<b>FIRE DISTRICT</b> MONARCH FIRE PROTECTION DISTRICT 13725 OLIVE BLVD. CHESTERFIELD, MO 63017 ATTN: FIRE MARSHAL PH. (314) 514-0900
<b>GAS COMPANY</b> SPIRE ENERGY ROOM 1408 720 OLIVE STREET ST. LOUIS, MO 63101 ATTN: Brian Langerbacher, P.E. PH. (314) 768-7767	<b>SEWER AUTHORITY</b> METROPOLITAN ST. LOUIS SEWER DISTRICT 2350 MARKET STREET ST. LOUIS, MO 63103 PH. (314) 768-6200
<b>WATER COMPANY</b> MISSOURI AMERICAN WATER CO. 1550 RESEARCH BLVD. ST. LOUIS, MO 63192 ATTN: Michael Fussner PH. (314) 996-2388	<b>HWY. DEPARTMENT</b> MISSOURI DEPARTMENT OF TRANSPORTATION 1590 WOODLAKE DRIVE CHESTERFIELD, MO 63017 ATTN: JAY-JAY BRADEN PH. (314) 380-0074

### FLOOD ZONE NOTE

SUBJECT PROPERTY LIES WITHIN UNSHADED FLOOD ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN) ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP FOR ST. LOUIS COUNTY, MISSOURI AND INCORPORATED AREAS. THE MAP IS IDENTIFIED AS PANEL 29189C0170 K WITH AN EFFECTIVE DATE OF 02/04/2015.

### STORMWATER MANAGEMENT NOTE

PROJECT DISTURBANCE = 0.31 ACRES  
PROJECT RUNOFF DIFFERENTIAL = 0.24 CFS  
ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORM WATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME (INCLUDING TOTAL LAND DISTURBANCE AND/OR IMPERVIOUSNESS ADDED ON THIS PLAN, 21MSD-00202).

### AREA CALCULATIONS

TOTAL SITE AREA:	102.43 AC.
TOTAL SITE COVERAGE:	3.50 AC. (3.4%)
BUILDINGS:	13.14 AC. (12.7%)
PAVEMENT:	18.64 AC. (18.2%)
TOTAL COVERAGE:	31.78 AC. (31.1%)
OPEN SPACE:	83.79 AC. (81.8%)

### LAND DISTURBANCE NOTE

TOTAL SITE AREA:	± 102.4 Acres
DISTURBED AREA:	± 0.31 Acres

### LEGEND

EXISTING CONTOURS	--- 433 ---
PROPOSED CONTOURS	--- 433 ---
EXISTING STORM SEWER	== □ ==
PROPOSED STORM SEWER	— ST — ST —
EXISTING SANITARY SEWER	== ○ ==
PROPOSED SANITARY SEWER	— SS — SS —
RIGHT-OF-WAY	-----
EASEMENT	-----
CENTERLINE	-----
EXISTING TREE	⊙ 12"
EXISTING SPOT ELEVATION	× 433.28
PROPOSED SPOT ELEVATION	× 433.28
SWALE	~ ~ ~
TO BE REMOVED	T.B.R.
TO BE REMOVED & REPLACED	T.B.R. & R.
TO BE REMOVED & GROUT-FILLED	T.B.R. & F.
TO BE USED IN PLACE	U.I.P.
ADJUST TO GRADE	A.T.G.
WATER MAIN	— W — W —
GAS MAIN	— G — G —
UNDERGROUND TELEPHONE	— T — T —
OVERHEAD WIRE	— O.H. — O.H. —
UNDERGROUND ELECTRIC	— E — E —
FIRE HYDRANT	⊙
POWER POLE	⊙
WATER VALVE	⊙
LIGHT STANDARD	⊙

\_\_\_\_\_ the owner of the property shown of this plan for and in consideration of being granted a permit to develop property under the provisions of Chapter 100.3 \_\_\_\_\_ of City of Chesterfield Unified Development Code, do hereby agree and declare that said property from the date of recording the plan shall be developed only as shown thereon, unless said plan is amended by the Planning Commission, or voided or vacated by order of ordinance of the City of Chesterfield Council.

State of Missouri }  
County of St. Louis } S.S.

On this \_\_\_\_\_ day of \_\_\_\_\_ A.D., 2022, before me personally appeared \_\_\_\_\_ to me known, who, being by me sworn in, did say that \_\_\_\_\_ is the President of \_\_\_\_\_ a corporation in the State of Missouri, and that the seal affixed to the foregoing instruments is the corporate seal of said Corporation, and that said instrument was signed on behalf of said corporation by authority of its Board of Directors, and the said \_\_\_\_\_ acknowledged said instrument to be the free act and deed of said corporation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my notarial seal, the day and year last above written.

My Commission expires \_\_\_\_\_

(Notary Public)

This Amended Site Plan was approved by the City of Chesterfield Planning Department and duly verified on the \_\_\_\_\_ day of \_\_\_\_\_, 2022, by the Director of Planning, authorizing the recording of this Amended Site Development Plan, pursuant to Chesterfield Ordinance Number 200 as attested by the Director of Planning and the City Clerk.

CITY OF CHESTERFIELD, MISSOURI

By: \_\_\_\_\_  
Justin Wynn  
Director of Planning

By: \_\_\_\_\_  
Vickie McGowan  
City Clerk

PREPARED FOR:  
Ittner Architects, Inc.

611 N. 10th STREET  
SUITE 200  
ST. LOUIS, MO 63101  
(PH.) 314-421-3542

PREPARED BY:

**CEDC**  
CIVIL ENGINEERING  
DESIGN CONSULTANTS  
10820 Sunset Office Drive  
Suite 200  
St. Louis, Missouri 63127  
314.729.1400  
Fax: 314.729.1404  
www.cedc.net

### INDEX OF SHEETS

C1	TITLE SHEET
C2	OVERALL SITE PLAN (80 SCALE)
C3	SITE PLAN (20 SCALE)

### GENERAL NOTES

- ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED. THE CONTRACTOR SHALL BE ON RECORD WITH THE MISSOURI ONE CALL SYSTEM. ALL PROPOSED UTILITIES SHALL BE UNDERGROUND.
- ALL ELEVATIONS ARE BASED ON BENCHMARK SHOWN.
- BOUNDARY AND TOPOGRAPHIC SURVEY BY SABUR, INC.
- ALL ON-SITE MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF CHESTERFIELD AND MSD.
- PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS ON PAVED AREAS.
- ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH THE CITY OF CHESTERFIELD AND MSD.
- SIDEWALKS ALONG THE ACCESSIBLE ROUTE SHALL NOT HAVE A SLOPE EXCEEDING 1"V:20"H. SLOPES GREATER THAN 1"V:20"H MUST BE DESIGNED AS A RAMP. SIDEWALKS TO BE CONSTRUCTED TO ST. LOUIS COUNTY ADA STANDARDS.
- SIDEWALKS, CURB RAMPS, RAMPS AND ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) ALONG WITH THE REQUIRED GRADES, CONSTRUCTION MATERIALS, SPECIFICATIONS AND SIGNAGE. IF ANY CONFLICT OCCURS BETWEEN THE ADA GUIDELINES AND THE INFORMATION ON THE PLANS, THE ADA GUIDELINES SHALL TAKE PRECEDENCE AND THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER PRIOR TO ANY CONSTRUCTION.
- ADEQUATE TEMPORARY OFF-STREET PARKING FOR CONSTRUCTION EMPLOYEES SHALL BE PROVIDED. PARKING ON NON-SURFACED AREAS SHALL BE PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEES' VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVEWAY CONDITIONS.
- CONTRACTOR TO COORDINATE CONSTRUCTION PARKING WITH OWNER. NO PARKING ALLOWED IN OLIVE BOULEVARD RIGHT OF WAY.
- ALL SEWER CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT (LATEST EDITION).
- NO ON-SITE ILLUMINATION SOURCE SHALL BE SO SITUATED THAT LIGHT IS CAST DIRECTLY ON ADJOINING PROPERTIES OR ROADWAYS. ILLUMINATION LEVELS SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF CHESTERFIELD. THE SITE LIGHTING STANDARDS AND LOCATIONS SHALL BE REVIEWED AND APPROVED PER THE REQUIREMENTS OF THE CITY OF CHESTERFIELD. LIGHTING DESIGN SUBJECT TO FINAL DESIGN OF LIGHTING ENGINEER.
- LANDSCAPING SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF CHESTERFIELD.
- ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO THE CITY OF CHESTERFIELD STANDARDS.
- ALL ROOF TOP MECHANICAL EQUIPMENT SHALL BE SCREENED BY PARAPET WALLS.
- ANY EASEMENT THAT IS TO BE VACATED SHALL BE VACATED PRIOR TO THE APPROVAL OF IMPROVEMENT PLANS.
- PARKING CALCULATIONS:  
PARKING REQUIREMENTS FOR EDUCATIONAL FACILITY (COLLEGE/UNIVERSITY):  
1 SPACE PER 4 STUDENTS OF DRIVING AGE

### PARKING REQUIRED

STUDENTS OVER 16	=	1,664	
TOTAL PARKING REQUIRED	=	1,664 STUDENTS x 1 SPACE/4 STUDENTS	= 416 SPACES
EXISTING PARKING	=	1,162 SPACES	
EXISTING PARKING (TO BE REMOVED)	=	21 SPACES (MODULAR CLASSROOMS)	
PROPOSED PARKING	=	4 SPACES	
TOTAL PARKING PROVIDED	=	1,145 SPACES (INCLUDES 21 ACCESSIBLE P.S.)	

NOTE:  
CIVIL ENGINEERING DESIGN CONSULTANTS, INC. AND THE UNDERSIGNED ENGINEER HAVE NO RESPONSIBILITY FOR SERVICES PROVIDED BY OTHERS TO IMPLEMENT THE IMPROVEMENTS SHOWN ON THIS PLAN AND ALL OTHER DRAWINGS WHERE THE UNDERSIGNED ENGINEER'S SEAL APPEARS. THE CONSTRUCTION MEANS, METHODS & MATERIALS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CIVIL ENGINEERING DESIGN CONSULTANTS, INC. HAS NO RESPONSIBILITY TO VERIFY FINAL IMPROVEMENTS AS SHOWN ON THIS PLAN UNLESS SPECIFICALLY ENGAGED AND AUTHORIZED TO DO SO BY THE OWNER OR CONTRACTOR.

UTILITY NOTE:  
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

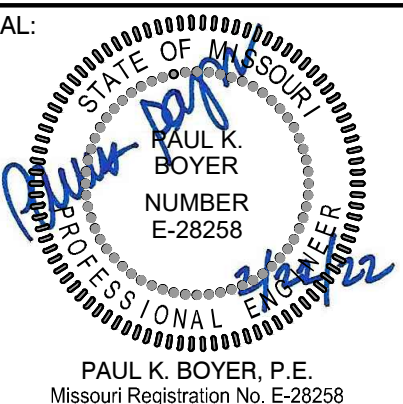
### NOTES TO CONTRACTOR:

- CONTRACTOR/SUBCONTRACTOR SHALL INVESTIGATE, ASCERTAIN AND CONFORM TO ANY AND ALL PERMIT REQUIREMENTS OF THE (ANY) VARIOUS AFFECTED UTILITY COMPANIES AND/OR REGULATORY AGENCIES WITH REGARD TO MAKING CONNECTIONS TO, OR CROSSINGS OF THEIR FACILITIES, WORKING WITHIN THEIR RIGHT-OF-WAY OR EASEMENTS, INSPECTIONS AND ASSOCIATED MONETARY CHARGES; AND/OR SPECIAL BACKFILL REQUIREMENTS, SUCH INVESTIGATION TO INCLUDE BUT NOT LIMITED TO THE MAKING OF NECESSARY APPLICATIONS AND PAYMENTS OF ALL REQUIRED FEES.
- THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS OR PROFILES ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR/SUBCONTRACTOR TO VERIFY THE FIELD LOCATION, ANTICIPATED CLEARANCES AND THE EXISTENCE OF ANY FACILITIES NOT SHOWN HEREON, AS PART OF THE INVESTIGATIONS IN THE PARAGRAPH ABOVE.
- THE DEMOLITION PLAN IS FOR ILLUSTRATION OF THE GENERAL DEMOLITION ANTICIPATED FOR THIS PARTICULAR SITE. THE DEMOLITION PLAN DOES NOT REPRESENT ALL CONDITIONS THAT MAY BE ENCOUNTERED DURING DEMOLITION/CONSTRUCTION. THE CONTRACTOR SHALL MAKE THEMSELVES THOROUGHLY FAMILIAR WITH THE SITE AND THE DEMOLITION/CONSTRUCTION REQUIREMENTS PRIOR TO BIDDING. THE INTENT OF THE DEMOLITION IS TO PROVIDE A CLEAN STABLE SITE, READY FOR CONSTRUCTION OF THE PROJECT IN CONFORMANCE WITH THE CONSTRUCTION PLANS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS THAT ARE IN KEEPING WITH THIS INTENT.
- PRIOR TO OBTAINING A CONSTRUCTION PERMIT FROM THE METROPOLITAN ST. LOUIS SEWER DISTRICT, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE DISTRICT WITH A COPY OF AN EXECUTED CERTIFICATE OF INSURANCE INDICATING THAT THE PERMITEE HAS OBTAINED AND WILL CONTINUE TO CARRY COMMERCIAL GENERAL LIABILITY AND COMPREHENSIVE AUTO LIABILITY INSURANCE. THE REQUIREMENTS AND LIMITS SHALL BE AS STATED IN THE RULES AND REGULATIONS AND ENGINEERING DESIGN REQUIREMENTS FOR SANITARY AND STORMWATER DRAINAGE FACILITY, SECTION 10.090 (ADDENDUM).
- THE CONTRACTOR SHALL STAY WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS AND MINIMIZE DISTURBANCE WITHIN THE WORK AREA WHEREVER POSSIBLE.



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1-800-DIG-RITE  
MISSOURI ONE-CALL SYSTEM, INC.

21MSD-00202  
MSD MAP 20R



ORIGINAL ISSUE DATE:

REVISIONS:	DESCRIPTION	DATE
▲	City submittal	01/26/2022
	per City comments	03/22/2022



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MISSOURI ARCHITECTURAL CORPORATION  
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CONSULTANTS:

LOGAN UNIVERSITY  
SCIENCE BUILDING ADDITION  
1851 SCHOETTLE ROAD, CHESTERFIELD, MO 63017

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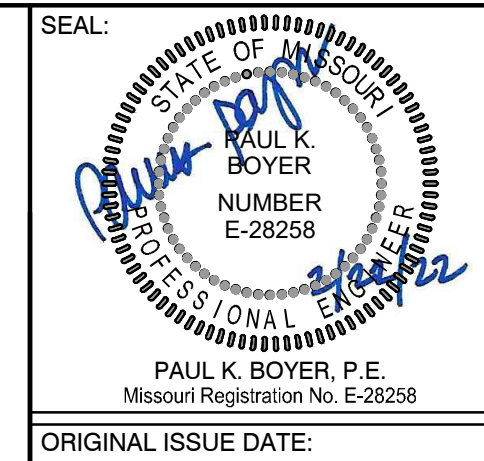
WB PROJECT NO. CEDC #2106  
2020.10.00

DRAWING TITLE:

TITLE SHEET

DRAWING NO.

**C1**  
SCIENCE BUILDING ADDITION



ORIGINAL ISSUE DATE:

REVISIONS:	DESCRIPTION	DATE
1	City Submittal	01/26/2022
2	per City comments	02/22/2022



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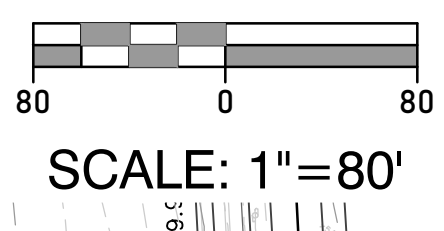
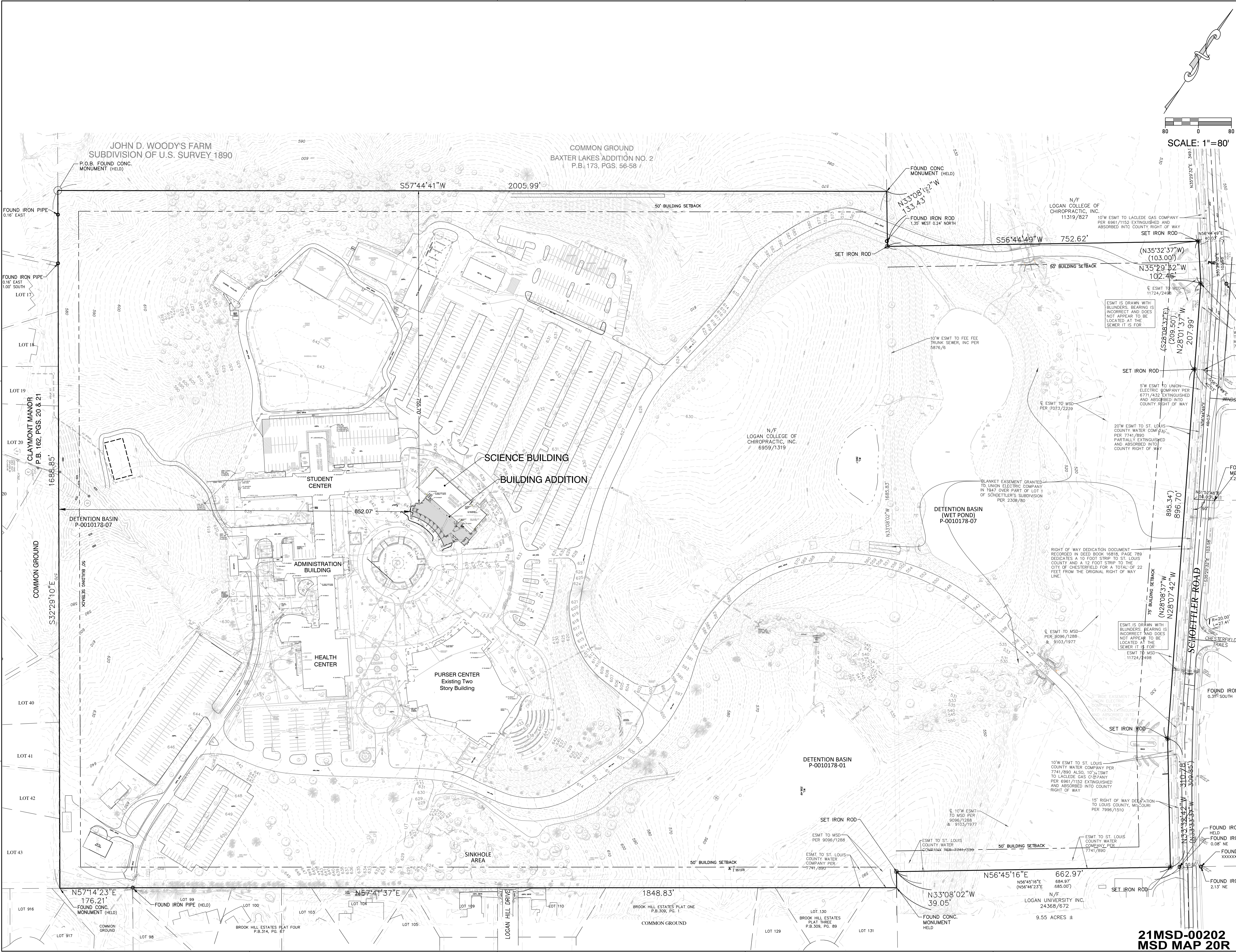
CONSULTANTS:

**LOGAN UNIVERSITY  
 SCIENCE BUILDING ADDITION**  
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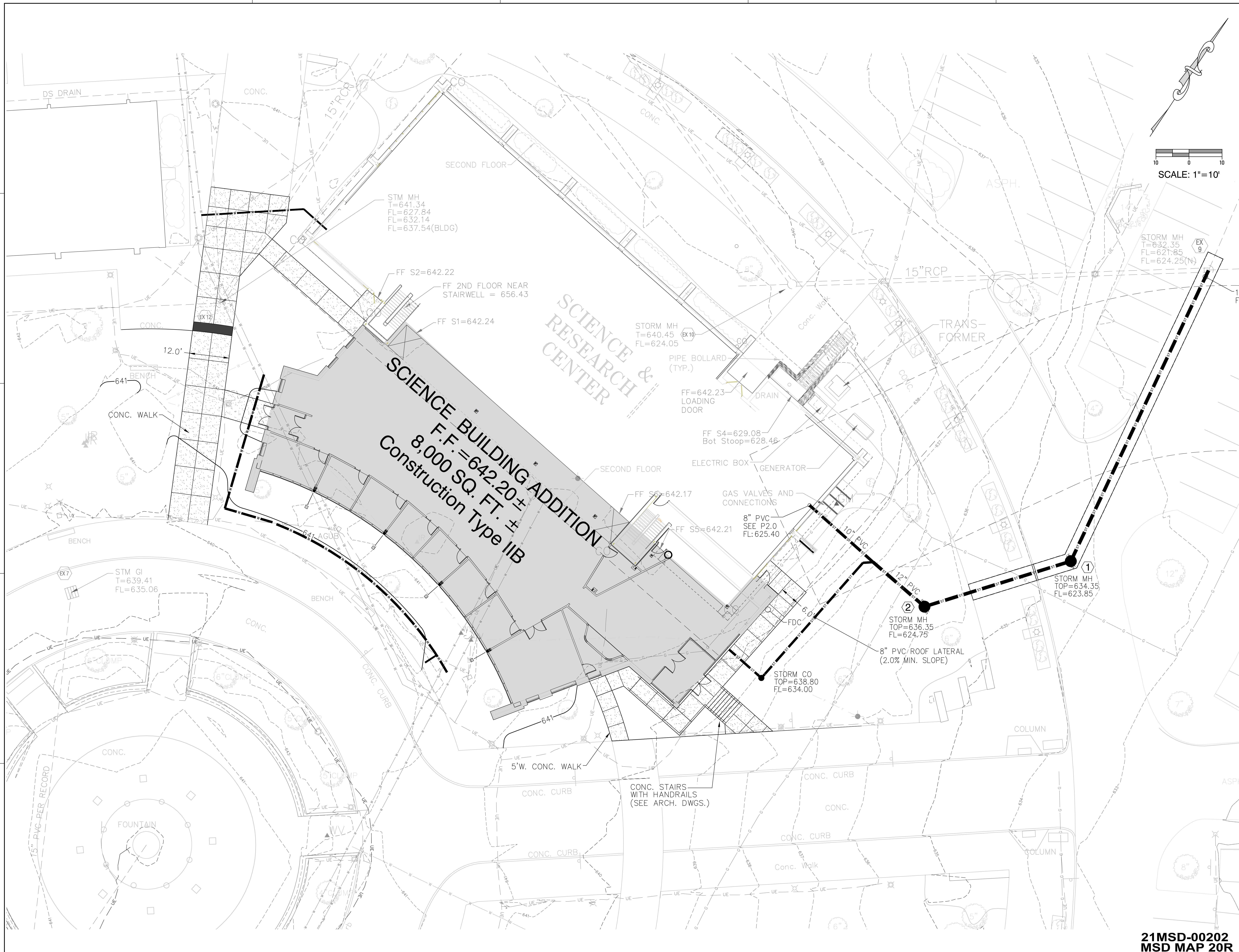
DRAWING TITLE:  
**SITE PLAN**

DRAWING NO.  
**C2**  
 SCIENCE BUILDING ADDITION



**21MSD-00202  
 MSD MAP 20R**





SEAL:  
  
 PAUL K. BOYER, P.E.  
 Missouri Registration No. E-28298

ORIGINAL ISSUE DATE:

REVISIONS:	DESCRIPTION	DATE
1	City submittal	01/26/2022
2	per City comments	03/22/2022



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 MEMBER OF AUTHORITY NO. 0306

CONSULTANTS:

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 SCIENCE BUILDING ADDITION  
 1851 SCHOETTLER ROAD, CHESTERFIELD, MO 63017

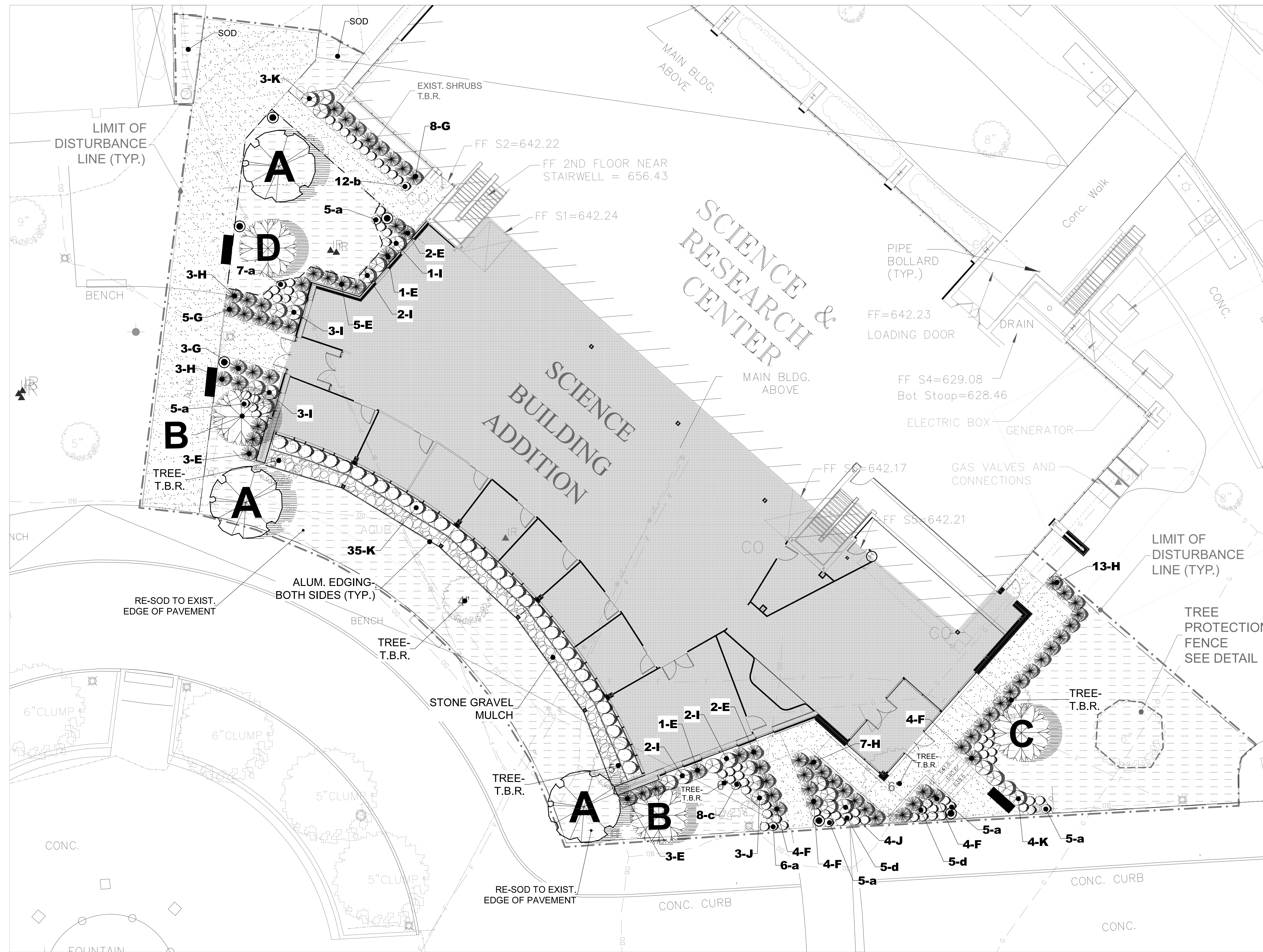
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WBI PROJECT NO. CEDC #2106  
 202010.00

DRAWING TITLE:  
 SITE PLAN

DRAWING NO.  
**C3**  
 SCIENCE BUILDING ADDITION

21MSD-00202  
 MSD MAP 20R



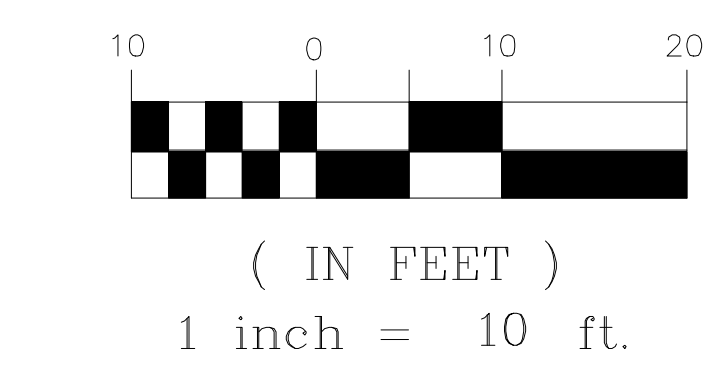
**EXISTING TREE LEGEND**

10" - EXISTING DECIDUOUS TREE TO REMAIN

**PROPOSED LEGEND**

- TURF - SOD (Turf Type Fescue)
- 3" MIN. THICK STONE MULCH W/FILTER FABRIC - SEE SPEC
- 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**



**EXTERIOR PLANT SCHEDULE**

Project Name:	LOGAN UNIVERSITY - Science Building Addition	Date:	February 18, 2022
Project No.:	GDS #021-06		

Symbol	COMMON NAME (Scientific Name)	Size	Quantity	Remarks
A	RED MAPLE 'SCARLET SENTINEL' (Acer rubrum 'Scarsen')	2.5' cal.	3	
B	SWEETBAY MAGNOLIA (Magnolia virginiana 'Jim Wilson')	6 ft.	2	
C	SAUCER MAGNOLIA (Magnolia x soulangiana)	6 ft.	1	Multi-Stem
D	FLOWERING DOGWOOD (Cornus florida)	2.5 ft.	1	
E	GREEN VELVET BOXWOOD (Buxus 'Green Velvet')	18-24" min.	17	3 ft. o.c.
F	GREEN MOUND JAPANESE GARDEN JUNIPER (Juniperus procumbens 'Green Mound')	18-24" min.	16	3 ft. o.c.
G	"TAUNTON" YEW (Taxus x media 'Tauntoni')	18-24" min.	16	3 ft. o.c.
H	STRONGBOX INKBERRY (Ilex glabra 'Strongbox')	18-24" min.	25	3 ft. o.c.
I	"HENRY'S GARNET" SWEETSPHIRE (Itea virginica 'Henry's Garnet')	18-24" min.	13	3 ft. o.c.
J	"MINUET" WEIGELA (Weigela florida 'Minuet')	18-24" min.	14	3 ft. o.c.
K	DWARF FOUNTAIN GRASS (Pennisetum alopecuroides 'Hameli')	3 gal.	35	3 ft. o.c.
a	HAPPY RETURNS DAYLILLY (Hemerocallis 'Happy Returns')	1 gal.	38	2 ft. o.c.
b	BIG BLUE LILYTURF (Liriope muscari 'Big Blue')	1 gal.	12	2 ft. o.c.
c	OCTOBER SKIES ASTER (Symph. oblongifolium 'October Skies')	1 gal.	8	2 ft. o.c.
d	ROSE VERBENA (Glandularia canadensis)	1 gal.	9	2 ft. o.c.
S.Y.	SOD AREA		960	Turf Type Fescue - See Specs
C.Y.	SHREDDED HARDWOOD BARK MULCH		14	See Specs
C.Y.	COMPOSTED LEAF MOLD OR MANURE		9	See Specs
S.F.	BED PREP AREA		1500	See Specs
L.F.	ALUMINUM LANDSCAPE EDGING		202	See Specs
S.F.	LARGE IOWA RAINBOW GRAVEL		550	3" thick - See Specs

**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.

**EXISTING TREE LIST**

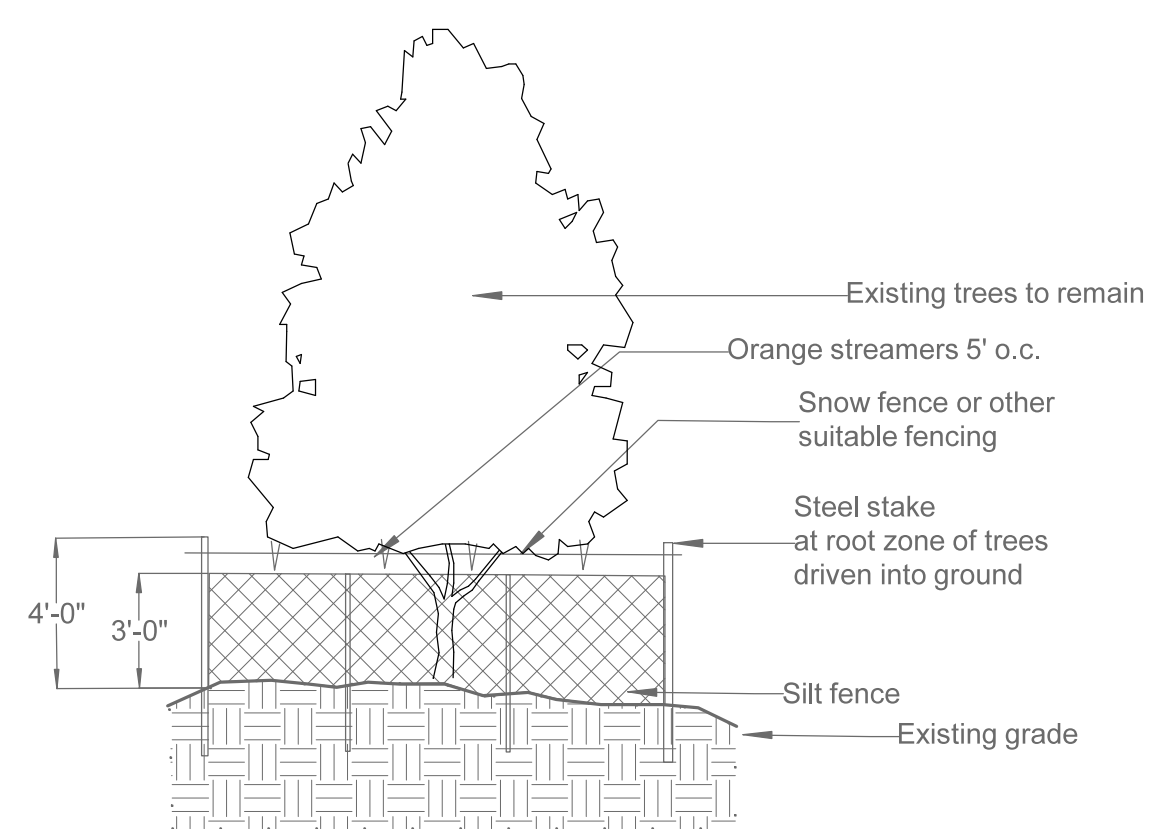
#	TREE SPECIES	D B H	COMMENTS	COND.
S3	red maple	4"	good form	GOOD
T3	red maple	4"	wound on trunk, co-dominant at 5'	FAIR
U3	red maple	4"	large wound on trunk with exposed decay, co-dominant at 6'	POOR
V3	sugar maple	6"	co-dominant at 6'	GOOD
W3	sugar maple	7"	co-dominant at 10', slightly bulbous trunk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

**EXISTING TREE LEGEND**

- 10" - EXISTING DECIDUOUS TREE TO REMAIN
- 10" TBR - EXISTING DECIDUOUS TREE TO BE REMOVED

**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.



**COMBINED SILT AND TREE PROTECTION FENCE**



Wm. B. Ittner, Inc. is a registered professional landscape architect. The design of this drawing is the property of Wm. B. Ittner, Inc. and shall remain the property of Wm. B. Ittner, Inc. No part of this drawing shall be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Wm. B. Ittner, Inc.

A record copy of this drawing is on file at the office of GATEWAY DESIGN STUDIO, LLC. Any unauthorized alterations or changes made without the express consent from GATEWAY DESIGN STUDIO, LLC shall remain the responsibility of the user.

SEAL  
  
 REVIEW ONLY 4.20.2022  
 ORIGINAL ISSUE DATE:  
 3.15.2022

**REVISIONS:**

DESCRIPTION	DATE

**ITTNER**  
 CORDOGAN CLARK GROUP  
 Wm. B. ITTNER, INC.  
 511 NORTH TENTH STREET  
 SUITE 200  
 ST. LOUIS, MO 63101  
 PHONE: (314) 421-3542  
 WWW.WBITTNER.COM  
 MISSOURI ARCHITECTURAL CORPORATION  
 CERTIFICATE OF AUTHORITY NO. 000004

**CONSULTANTS:**  
 STRUCTURAL ENGINEER:  
 CORDOGAN CLARK & ASSOCIATES, INC.  
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 AURORA, IL 60506  
 MISSOURI CERTIFICATE OF AUTHORITY NO. 201907146  
 CIVIL ENGINEER:  
 CEDC CIVIL ENGINEERING  
 10820 SUNSET OFFICE DRIVE  
 SUITE 200  
 ST. LOUIS, MO 63127  
 MISSOURI CERTIFICATE OF AUTHORITY NO. 2009044  
 LANDSCAPE ARCHITECT:  
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 SUITE 200  
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 METEOROLOGIST:  
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 AURORA, IL 60506  
 MISSOURI CERTIFICATE OF AUTHORITY NO. 201907146  
 LANDSCAPE PLANNER:  
 HERA, INC.  
 411 NORTH TENTH STREET  
 SUITE 400  
 ST. LOUIS, MO 63101-1335  
 MISSOURI CERTIFICATE OF AUTHORITY NO. 006660  
 FIRM/AGRICULTURAL SECURITY:  
 SHEN MILSON & WILKE, LLC  
 2 N RIVERSIDE PLAZA  
 SUITE 1602  
 CHICAGO, IL 60606

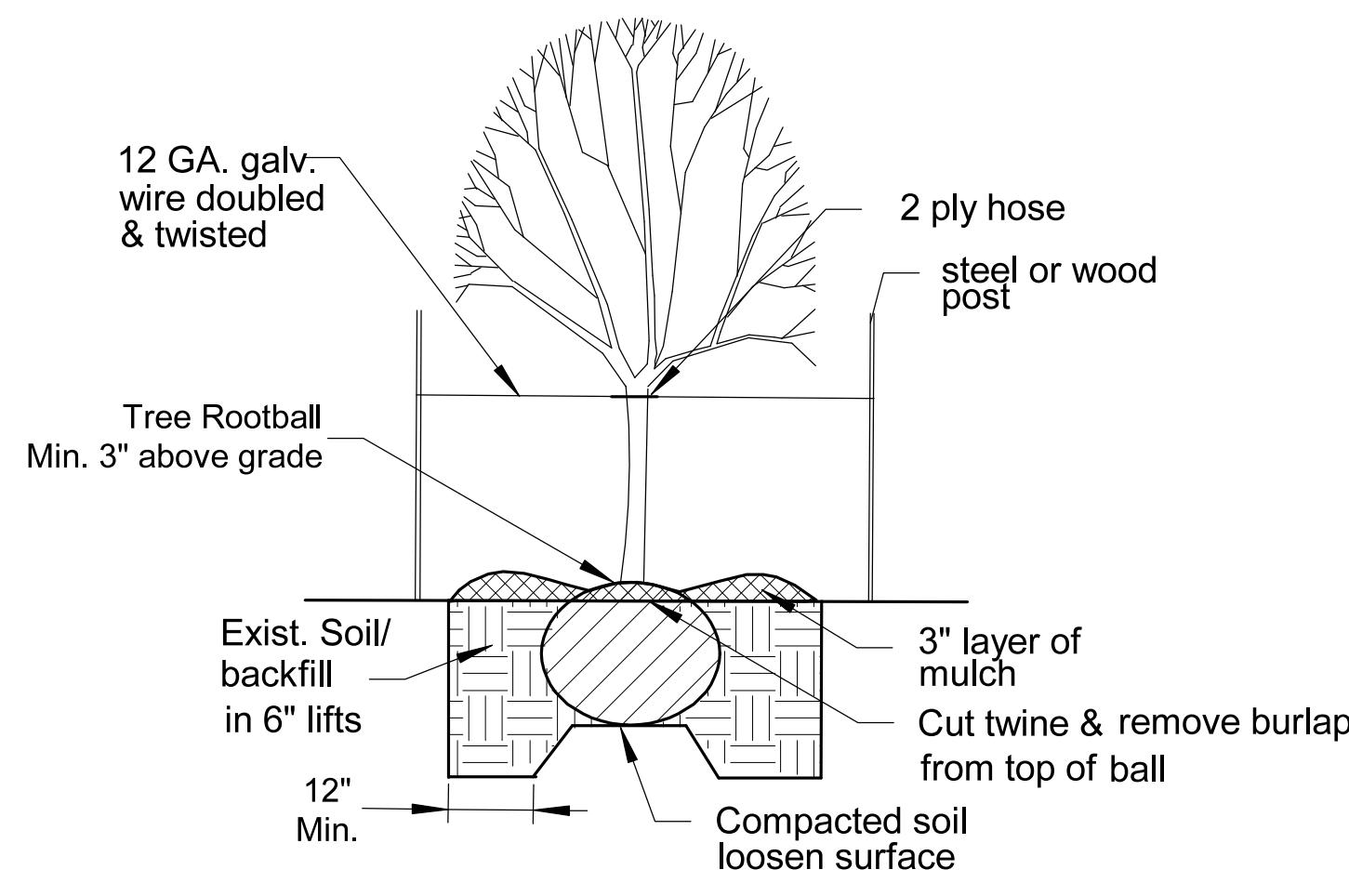
LOGAN UNIVERSITY  
 FUHR SCIENCE CENTER  
 1851 SCHOETTLER RD., CHESTERFIELD, MO 63017

GDS #021-06  
 COPYRIGHT  
 Wm. B. ITTNER, INC. 2022  
 WBR PROJECT NO.  
 202010.01

DRAWING TITLE  
**LANDSCAPE DEV. PLAN - SCIENCE BUILDING ADD.**

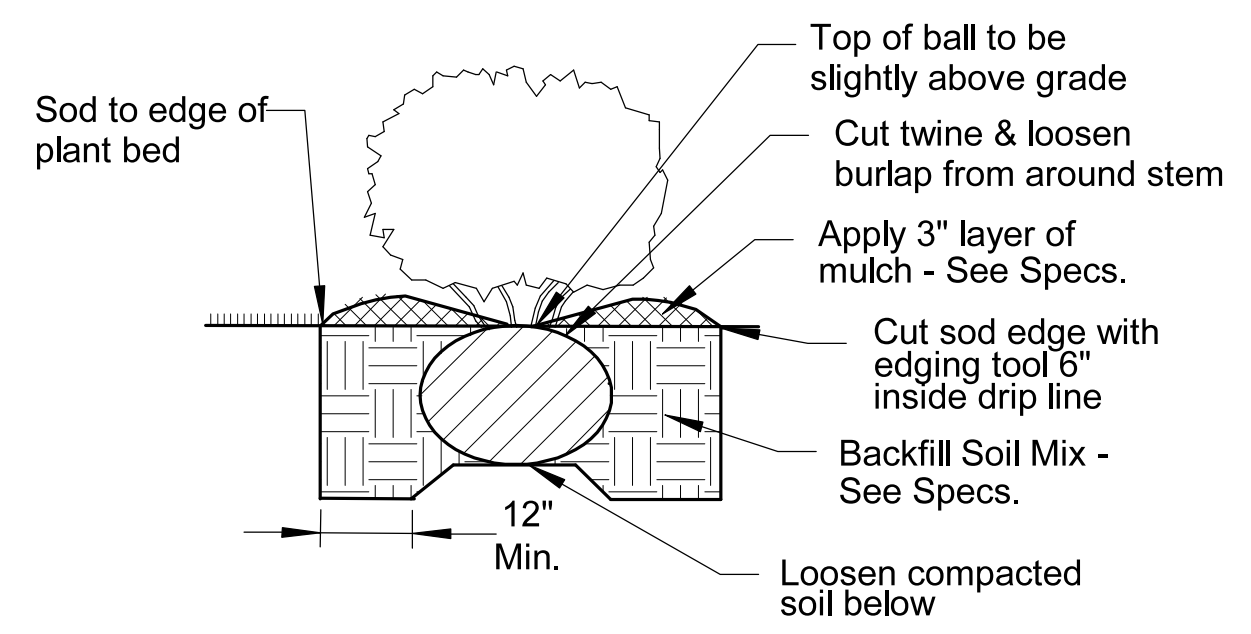
DRAWING NO.  
**L-1.0**  
 FUHR SCIENCE CENTER

BIG SET



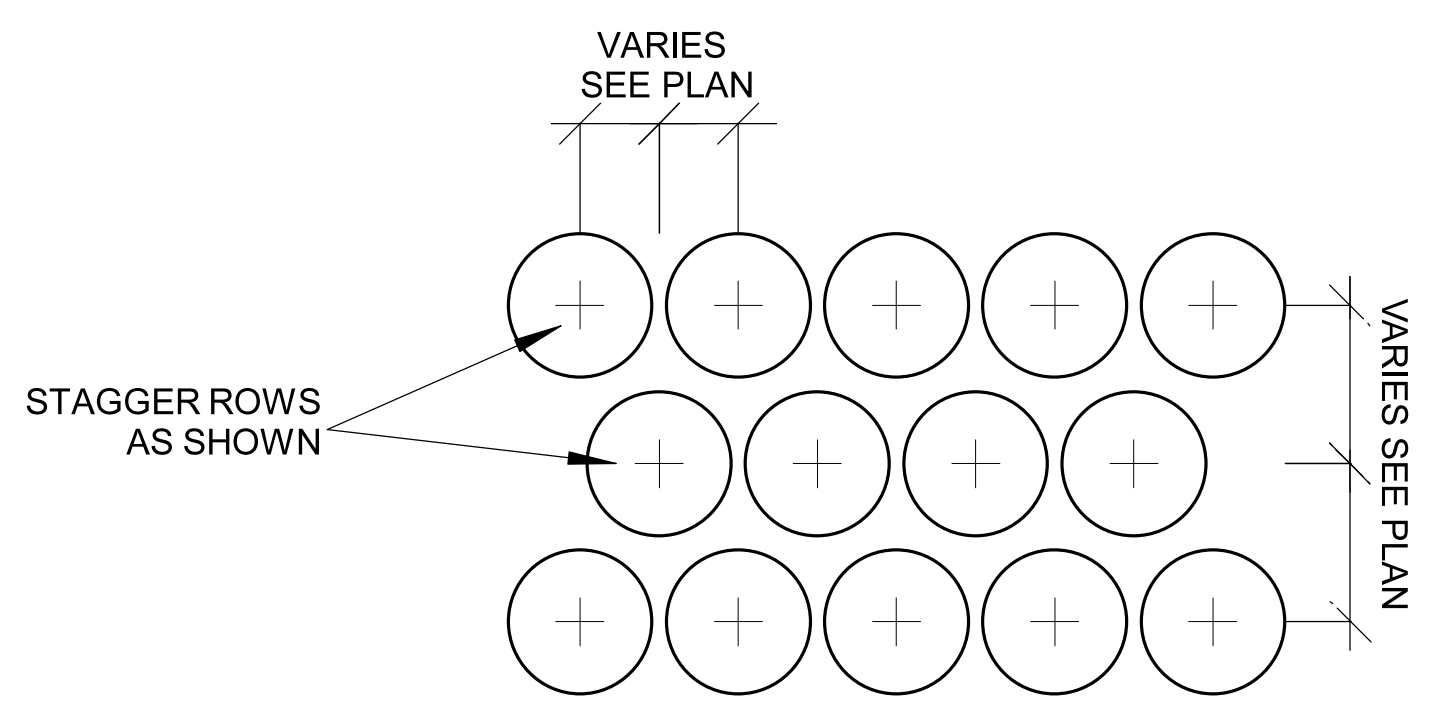
**1 TYPICAL TREE PLANTING DETAIL**  
L-1.1 N.T.S.

Refer to specifications for additional instructions.  
Note: Stake trees 2.5\"/>



**2 TYPICAL SHRUB AND ORNAMENTAL GRASS PLANTING DETAIL**  
L-1.1 N.T.S.

Refer to specifications for additional instructions.  
Note:  
1. Scarify root ball of all container grown stock  
2. Soak each plant pit prior to planting  
3. Water plant immediately after planting



**3 TYPICAL PERENNIAL FLOWER PLANTING DETAIL**  
L-1.1 N.T.S.

Refer to specifications for additional instructions.

Call before you dig  
800-368-5888  
www.callbeforeyoudig.com

Underground facilities, structures and pipes have been plotted from available records, recent information and utility records. They are shown as approximate locations only. No liability is assumed for any damage to underground facilities, structures and pipes caused by excavation or other operations. The Contractor shall be responsible for verifying the location and depth of all underground facilities, structures and pipes before excavation or other operations. The Contractor shall be responsible for any damage to underground facilities, structures and pipes caused by excavation or other operations. The Contractor shall be responsible for any damage to underground facilities, structures and pipes caused by excavation or other operations. The Contractor shall be responsible for any damage to underground facilities, structures and pipes caused by excavation or other operations.

A recent original of this document is on file at the office of GATEWAY DESIGN STUDIO, L.L.C. Any unauthorized alterations or changes made without the express consent from GATEWAY DESIGN STUDIO, L.L.C. shall allow us not responsible for any such alterations and changes.

LANDSCAPE WORK - SECTION 329300

**PART 1 - GENERAL**

**1.1 SECTION INCLUDES**  
Landscape work, including topsoil, plant materials, sodding and maintenance contract.

**1.2 QUALITY ASSURANCE**  
Plant size and quality: All plant material shall be in accordance with the current issue of the American Standard for Nursery Stock published by the American Association of Nurserymen and conform in general to representative species. Provide balled and burlapped (B&B) trees and shrubs. Provide container grown shrubs if necessary.

**1.3 WARRANTY AND MAINTENANCE CONTRACT**  
Maintenance, Cleanup, and Protection:  
Maintain trees, shrubs, lawns and other plant material immediately after planting and until complete project acceptance by Owner. Maintenance of trees, shrubs and plant material shall consist of watering, pruning, cultivation, weeding, repairs, mulching and spraying. Maintenance of lawns shall be watering, fertilizing, mowing, trimming, rolling, re-grading, replanting and other necessary means to maintain an acceptable lawn. Clean work area in an acceptable manner after each day's operations.

Final Inspection and Acceptance:  
Warrant all plant material for a minimum of one year. Warranty all lawn areas until final acceptance. Replace during specified planting time. When landscape work is completed, the Owner and or Landscape Architect will, upon request, make an inspection to determine acceptability. Landscape work may be inspected for acceptance in portions as acceptable to the Owner and or Landscape Architect, provided each portion of work offered for inspection is complete. If inspected landscape work does not comply with requirements, replace rejected work and continue specified maintenance until re-inspected by Owner and or Landscape Architect and found to be acceptable. Remove rejected plants and materials within 1 week from project site. Replace any plant or grass that has died, regardless of reason.

Owner or Landscape Architect reserves the right to reject any material or workmanship deemed not acceptable by the requirements and expectations of this specification. Any deviation of the plans or specifications by the contractor must be submitted prior to execution in a written request to the Landscape Architect for approval.

**1.4 REQUIREMENTS**  
Submit planting schedule showing coordination of planting times between March 1 through June 30 or September 1 through November 30 relating with construction schedule of other trades. Notify Owner and or Landscape Architect for inspection and selection of trees at the job site prior to installation.

**1.5 PRE-INSTALLATION MEETINGS**  
Notify Owner's Representative a minimum of 48 hours prior to installing phases of the work for in field plant placement verification for no more than a total of two such meetings. Some minor location adjustment may occur.

**PART 2 - PRODUCTS**

**2.1 TOPSOIL**  
Supply topsoil as necessary to supplement backfill, finish grading of lawns and planting beds. Topsoil to be clean, friable, fertile, and natural with 5% organic material minimum. Reuse stockpiled topsoil if acceptable or obtain from a local site.

**2.2 SOIL ADMMENDMENTS**  
Planting Bed Soil Amendments shall be a 2-inch layer of well composted manure or leaf mold.

LANDSCAPE WORK - SECTION 329300 329300-1

**2.3 PLANT MATERIALS**  
Refer to the Drawings.

**2.4 TURF-SOD**  
Sod: Provide strongly rooted sod (Turf-type Fescue Blend) not less than 2 years old, free of weeds and undesirable native grasses, machine cut to pad thickness of 3/4\"/>

Fertilizer: Provide 12-12-12 fertilizer to all new lawn areas with not less than 1 lb. of actual nitrogen per 1000 sq. ft.

Topsoil: Provide 2\"/>

**2.5 MULCH**  
Shredded Bark Mulch:  
Hardwood bark mulch free of growth or germination-inhibiting ingredients. Apply granular pre-emergent weed control prior to spreading mulch. Mulch shall be at least 3 inches thick.

Stone Mulch:  
Stone mulch shall be Large Iowa Rainbow gravel, mixed natural stone with a size range of 1.5 to 2.5 inches minimum. Mulch shall be water worn, hard, durable, and washed free of loam, sand, clay, and other foreign matter.

**2.6 LANDSCAPE WEED BARRIER FABRIC**  
Filter fabric shall be Contech 4 oz grade or approved equal. Fabric shall be of good condition free of tears, rips or other defects. Install per manufacturers recommendations.

**2.7 PLANTING ACCESSORIES**  
Heavy Duty Straight Profile Edging: Permaloc CleanLine XL, 3/16\"/>

Thickness: 3/16 inch (4.8 mm) gage section at 0.116 inch (2.95 mm) minimum thick with 0.375 inch (9.53 mm) exposed top lip.  
Length: 8' (2.44m) sections.  
Connection Method: Section ends shall splice together with the sliding XLR Adaptor.  
Stake: 18\"/>

Finish: Mill Finish.

**PART 3 - EXECUTION**

**3.1 PREPARATION**  
Remove substantial stones, limbs, wire banding, construction debris, and like items. Spread topsoil during dry weather and on dry unfrozen subgrade. Place to 2 inches thick over entire area to be landscaped and rake entire area. Leave the lot in finished grade condition with finish contours to match approved site plan elevations +/- 0.2 inches, allowing 2 inches for spreading topsoil.

**3.2 PLANTING**  
Planting of Trees:  
Excavate planting pits to a width 12\"/>

LANDSCAPE WORK - SECTION 329300 329300-2

Tamp to eliminate any voids or air pockets. Water tree thoroughly and apply a 3\"/>

Fertilize trees with "Woodace"/Estech, Inc., Fairview Heights, Illinois or approved equal.

Prune trees as required, but not more than 15% of the branches. Do not prune back terminal leader. Wrap trunk from ground to first branch with tree wrapping tape. Guy and stake trees in two directions with 12 GA. galvanized wire, through flexible hose guards, secure to 2x2 wood stakes or steel posts.

Planting of Shrubs:  
Excavate planting pits or beds to a width 12\"/>

Planting of Ground Cover and Perennials:  
Prepare planting beds by cultivating not less than 6\"/>

**3.3 SOD INSTALLATION**  
Sodding Lawns:  
Lay sod within 24 hours from time of stripping. Do not plant dormant sod or if ground is frozen. Place sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod strips, do not overlap. Stagger strips to off-set joints in adjacent courses. Tamp or roll lightly to ensure contact with grade. Anchor into soil on 3:1 slopes or greater with sod staples. Water sod thoroughly with fine spray immediately after planting. Where patching is necessary, patches shall fit the base area to be covered and shall not overlap other sod strips.

**3.4 MULCHING**  
Placing Shredded Bark Mulch:  
Mulch shall be applied within two days after planting. Mulch shall be free of extraneous material and evenly spread to a depth as specified.

Placing Stone Mulch:  
Place all mulch in areas as shown at a depth of 3 inches. Adjust grades allowing for the thickness of mulch by cutting or filling. Assure slight pitch away from buildings and edges. Compact soil subgrades before placing gravel. Install filter fabric material prior to placing stone mulch. Trim loose edges and other pieces that may show outside of mulch area.

**3.5 LANDSCAPE EDGING INSTALLATION**  
Preparation: Ensure that all underground utility lines are located and will not interfere with the proposed edging installation before beginning work. Locate border line of edging with string or other means to assure border straightness and curves as designed. Dig trench 1 inch (25 mm) deeper than set of edging bottom.

Install per Manufacturers Recommendations.

Backfilling and Cleanup: Backfill both sides of edging, confirm and adjust if necessary that sections are securely held together, and compact backfill material along edging to provide top of edging at 1/2 inch above finish grade. Cleanup and remove excess material from site.

END OF SECTION

LANDSCAPE WORK - SECTION 329300 329300-3

- PLAN NOTES:
- Contractor to review and field verify existing and proposed conditions prior to installation.
  - Contractor to notify GATEWAY DESIGN STUDIO of any discrepancies.
  - Contractor to coordinate with other trades.
  - Contractor to adjust plantings accordingly, notify GATEWAY DESIGN STUDIO of any major changes.
  - Proposed plant material is to be selected by the contractor and approved by GATEWAY DESIGN STUDIO or Owner prior to installation.
  - Tree locations and planting beds to be located by the contractor and approved by GATEWAY DESIGN STUDIO or Owner prior to installation.
  - 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.
  - Quantity of sod and seeding shown is for bidding purposes only. Submit unit cost for any additional cost or credit.
  - Contractor is responsible for installing all plant material shown on plan.
  - All Landscaping Improvements and maintenance to be done according to City of Chesterfield requirements.
  - Plantings shall not prohibit site distance requirements.
  - Proposed conditions based on latest plans prepared by CEDC, Inc.  
Refer to civil Plans for proposed site development and grading requirements.

SEAL:  
REVIEW ONLY 4.20.2022  
ORIGINAL ISSUE DATE:  
3.15.2022

REVISIONS:	DESCRIPTION	DATE

**ITTNER**  
CORDOGAN CLARK GROUP

WM B. ITTNER, INC.  
611 NORTH TENTH STREET  
SUITE 200  
ST. LOUIS, MO 63101  
PHONE: (314) 421-3542  
www.ittnerarchitects.com  
MISSOURI ARCHITECTURAL CORPORATION  
CERTIFICATE OF AUTHORITY NO. 00094

CONSULTANTS:  
STRUCTURAL ENGINEER:  
CORDOGAN CLARK & ASSOCIATES, INC.  
960 RIDGEWAY AVENUE  
AURORA, IL 60506  
MISSOURI CERTIFICATE OF AUTHORITY NO. 20181848

CIVIL ENGINEER:  
CEDC CIVIL ENGINEERING  
1000 SUNSET OFFICE DRIVE  
SUITE 200  
ST. LOUIS, MO 63127  
MISSOURI CERTIFICATE OF AUTHORITY NO. 00046

LANDSCAPE ARCHITECT:  
GATEWAY DESIGN STUDIO, L.L.C.  
100 CHESTERFIELD BUSINESS PARKWAY  
SUITE 200  
ST. LOUIS, MO 63005  
MISSOURI CERTIFICATE OF AUTHORITY NO. 000006

MEP ENGINEER:  
CORDOGAN CLARK & ASSOCIATES, INC.  
960 RIDGEWAY AVENUE  
AURORA, IL 60506  
MISSOURI CERTIFICATE OF AUTHORITY NO. 20181848

LABORATORY FURNISHER:  
HERA, INC.  
411 NORTH TENTH STREET  
SUITE 400  
ST. LOUIS, MO 63101-1335  
MISSOURI CERTIFICATE OF AUTHORITY NO. 000460

IT/AN ARCHITECTURAL SECURITY:  
SHEN MILSON & WILKE, L.L.C.  
2 N RIVERSIDE PLAZA  
SUITE 1450  
CHICAGO, IL 60606

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

GDS #021-06

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WBI PROJECT NO.  
202010.01

DRAWING TITLE:  
PLANT DETAILS & SPECIFICATIONS - SCIENCE BUILDING ADD.

DRAWING NO.  
L-1.1  
FUHR SCIENCE CENTER

BID SET









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

- Black
- Natural paint aluminum

### Light source

- 30W LED/3000K
- 30W LED/4000K**

### Lumen

- 1013
- 967**

### Voltage frequency

- 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

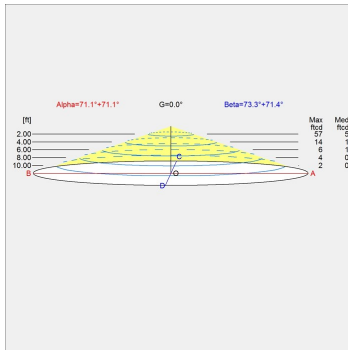
## Finish

Black, Natural paint aluminum

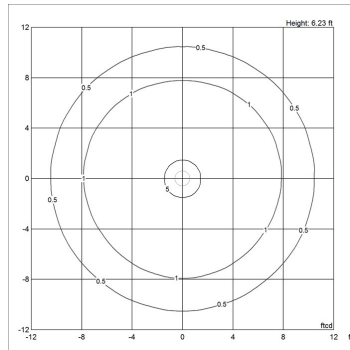
## Light distribution diagrams

For the full data set on all variants, see [louispoulsen.com](http://louispoulsen.com).

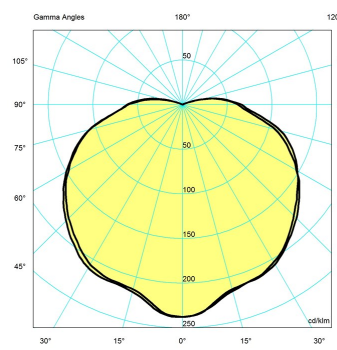
Cartesian



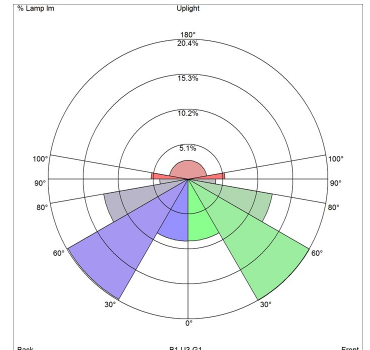
Isolux



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 <sup>1</sup>	27(00) K	T2	MDL03	OPTIONS					UGMT	UGM
		FG	44L	35(00) K	T3	MDL05	PEC	MOT1 <sup>2</sup>	FHD	CB	EM <sup>3</sup>	UBT	UB
		FFG	52L	45(00) K	T3R	MDH03	PEC4	MOT2 <sup>2</sup>				USLT	USL
		SV1*	<sup>1</sup> Not available in 05 driver		T4	MDH05						UWHT	UWH
		SV2**			T5							BKT	

<sup>2</sup> Requires acrylic lens (CA, SV1, or SV2)

<sup>3</sup> 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 L<sub>70</sub> > 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:

- MOT1<sup>2</sup>:** 360° lens, maximum coverage 40' diameter from 20' height
- MOT2<sup>2</sup>:** 360° lens, maximum coverage 70' diameter from 20' height

<sup>2</sup> 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**

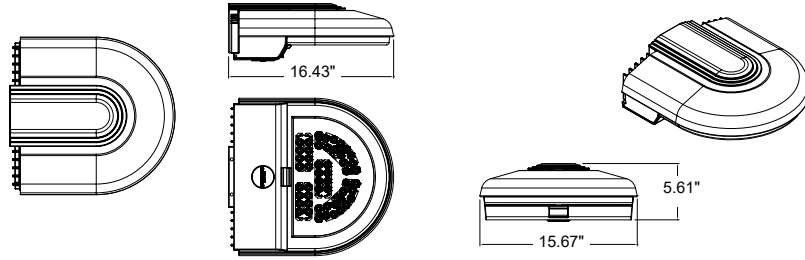
**Weight: 30 LBS**

## Performance (Based on FG Lens)

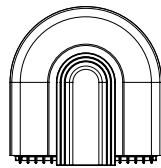
MODEL #	T2 LUMENS	BUG	EFFICACY (LPW)	T3 LUMENS	BUG	EFFICACY (LPW)	T3R LUMENS	BUG	EFFICACY (LPW)	T4 LUMENS	BUG	EFFICACY (LPW)	T5 LUMENS	BUG	EFFICACY (LPW)	WATTS
52L45T_-MDL05	7540	B2U0G2	82.9	7200	B2U0G2	79.1	7355	B2U0G2	80.8	7285	B2U0G2	80.1	7165	B3U0G3	78.7	91
52L35T_-MDL05	7080	B2U0G2	77.8	6760	B2U0G2	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

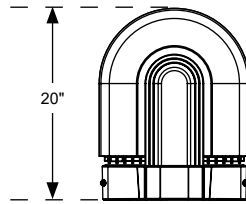
EPA: 0.4 SQUARE FT  
WEIGHT: 30 LBS



## Mounting Configurations

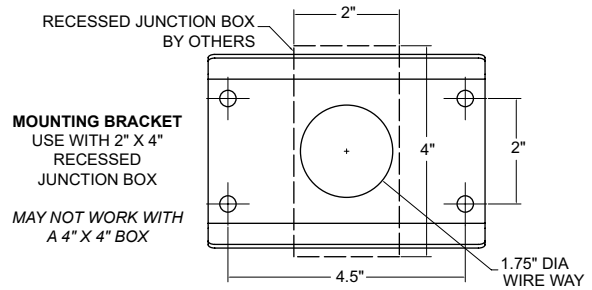
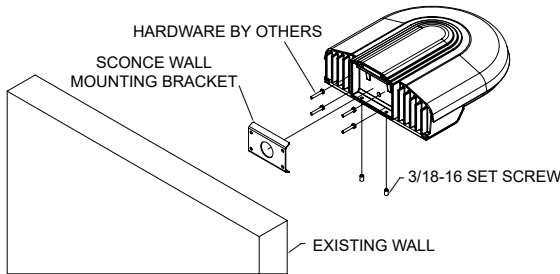


SINGLE

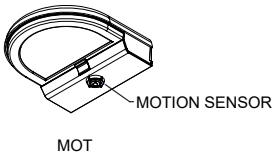


CONDUIT BOX OR EM MOUNTING

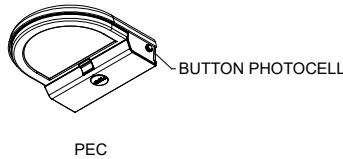
## Mounting Details



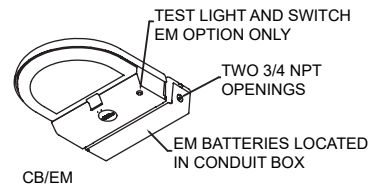
## Other Options



MOT

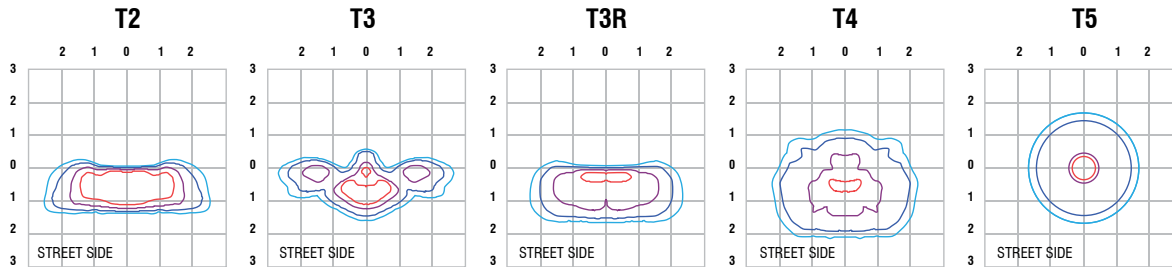


PEC



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.



**SternbergLighting**  
ESTABLISHED 1923

800-621-3376  
555 Lawrence Ave., Roselle, IL 60172  
contactus@sternberglighting.com  
www.sternberglighting.com

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.

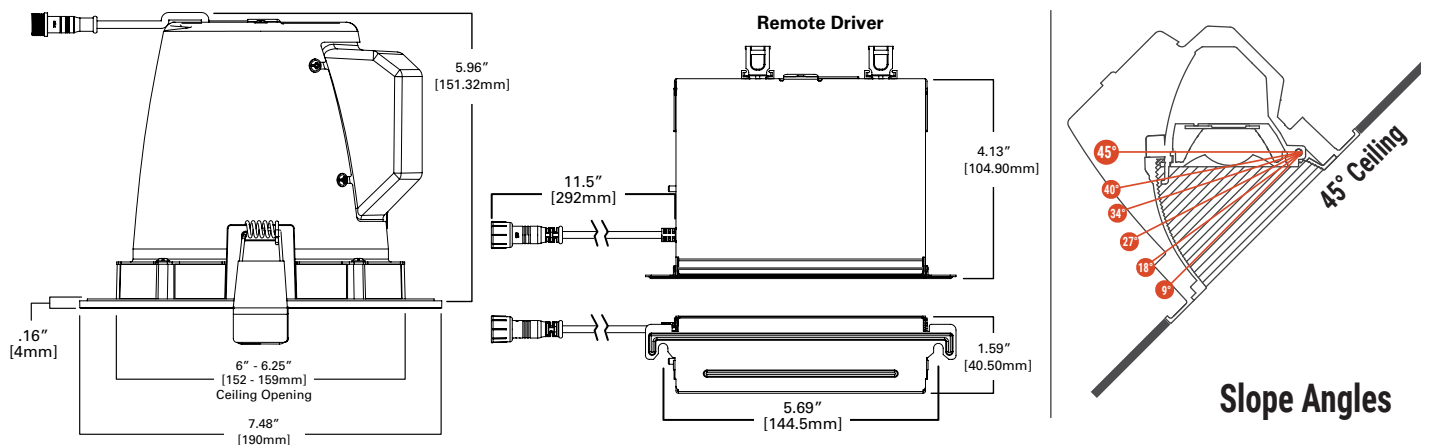
### Product Features



### 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
<b>RLS6 = 6" RL Slope Ceiling direct mount module</b>	<b>15 = 1500 lumen series (nominal)</b>	<b>9FS = 90 CRI min, 5-color selectable CCT</b>	<b>1E = 120V 60Hz, LE &amp; TE phase cut 5% dimming</b>	<b>WH = Matte white baffle</b>	<b>DM = Direct Mount</b>	<b>R = recyclable 4-color unit carton</b>
<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>

### Accessories

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

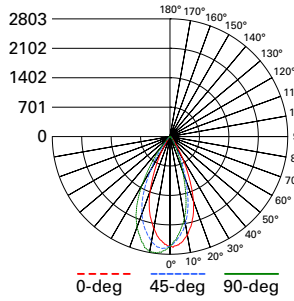
### Compliance

- 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](http://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
<b>Suelo_R</b> ○	Ø 1.2 in	Ø 2.5 in	Ø 3.6 in	-	-
<b>Suelo_RJ</b> ○	-	Ø 2.5 in	Ø 3.6 in	-	-
<b>Suelo_RX</b> ○	-	-	Ø 4.7 in	Ø 6.7 in	Ø 9.1 in
<b>Suelo_RXJ</b> ○	-	-	Ø 4.7 in	Ø 6.7 in	-
<b>SueloPRO_R</b> ○	Ø 1.4 in	Ø 2.5 in	Ø 3.6 in	-	-
<b>SueloPRO_RX</b> ○	Ø 2 in	-	Ø 4.7 in	Ø 6.7 in	-
<b>Suelo_RX Double</b> ○	-	-	-	Ø 6.7 in (12W)	Ø 9.1 in (24W)
<b>Suelo Telescopic</b> ○	-	-	-	Ø 7.9 in	Ø 7.9 in (25W)
<b>Options</b>	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
<b>CRI 80</b>	2700K 3000K 4000K	2700K 3000K 4000K	2700K 3000K 4000K RGBW (_RX)	2700K 3000K 4000K RGBW (_RX)	2700K 3000K 4000K RGBW (_RX)
<b>Standard</b>	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
<b>Optics</b>					
<b>Pro</b>	15° 30° 60° Elliptic Diffused	20° 30° 50°	06° 15° 30° 60°	15° 30° 60° Asymmetric	-
<b>Driver</b>	Remote	Remote	Remote	Remote 120-277V On/Off (PRO_RX, _RX Double)	Remote 120-277V On/Off (_RX, _RX Double)
<b>Current</b>	C.C. C.V.	C.C. C.V.	C.C. C.V.	C.C.	C.C.

## The range

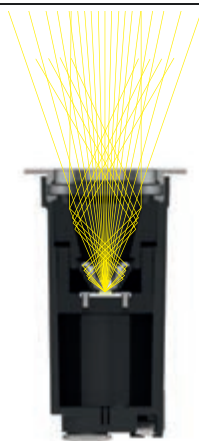
The Suelo family offers a variety of solutions for every design need: fixed and tiltable versions, small-flanged flush-mount uplights. There are PRO models with recessed optics. RGBW engines and beam control filters are also available. All models have the exclusive AquaStop® protection systems, and there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



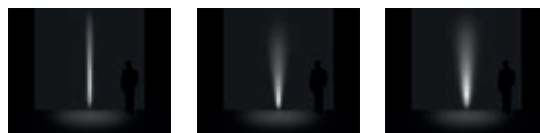
Suelo + Darklight

## Performance and control

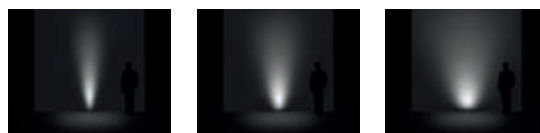
Six outputs to choose from, ranging from 1 to 30 watts, three color temperatures including warm light at 2700 and 3000K, and daylight at 4000K.

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.

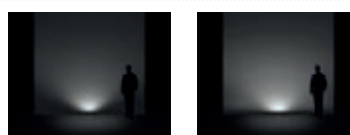
### Spot



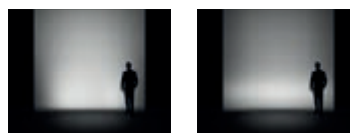
### Flood



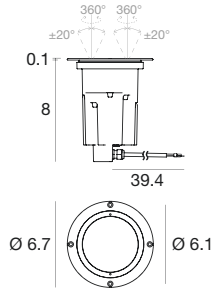
### Diffused



### Asymmetric



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



On/Off

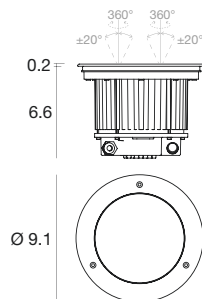
Steel	Alu	E81619	2700K	1114 lm	M	Spot	15
			3000K	1176 lm	W	Medium Flood	30
			4000K	1300 lm	N	Flood	60

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

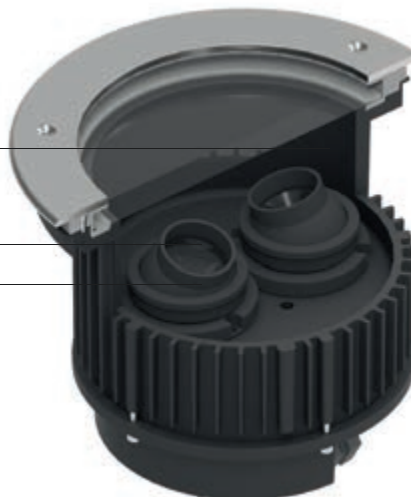
Steel	Alu	E81620	2700K	2207 lm	M	Spot	15
			3000K <th>2377 lm</th> <th>W</th> <th>Medium Flood</th> <th>30</th>	2377 lm	W	Medium Flood	30
			4000K	2547 lm	N	Flood	60

Recessed casings



**E99794**  
Outer casing for ground-mounting installation

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



index

technical information