



HCA - LEE'S SUMMIT MEDICAL CENTER SITE & BRIDGE EARLY RELEASE PACKAGE

2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

DGL PROJECT NO. 6406.24.0001 DATE: 08/28/2024
HCA PROJECT NO. 0972400009

HCA DESIGN MANAGER: MIKAL MALIK
HCA CONSTRUCTION MANAGER: TAYLOR BRASHER

DEVENNEY GROUP, LTD. ARCHITECTS

6900 E CAMELBACK RD, SUITE #500
SCOTTSDALE, AZ 85251
PROJECT MANAGER: KEVIN COOK 602.541.7287

WSP

MECHANICAL, PLUMBING & ELECTRICAL ENGINEERS
300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105
PROJECT MANAGER: MINDY WHISLER 816.702.4247

STANELY D. LINDSEY AND ASSOCIATES, LTD.

STRUCTURAL
750 OLD HICKORY BLVD, BUILDING 1 SUITE 175
BRENTWOOD, TN 37027
IN-CHARGE/PROJECT MANAGER: JASON PERRY 615.320.1735

CATALYST DESIGN GROUP CIVIL

5100 TENNESSEE AVE
NASHVILLE, TN 37209
ENGINEER: JACK PARKER 615.622.7220

NABHOLZ GENERAL CONTRACTOR

6640 CAROTHERS PARKWAY, STE 150
FRANKLIN, TN 37067
PROJECT EXECUTIVE: JEREMY BRANSON 913.393.6552

FINAL DEVELOPMENT PACKAGE - 2ND REVIEW



Devenney Group Ltd., Architects
6900 E. Camelback Road,
Suite #500
Phoenix, Arizona 85013
T: 602.943.8950
F: 602.943.7645
www.devenneygroup.com

PROJECT GENERAL NOTES	
1. GENERAL NOTES APPLY TO ALL DRAWINGS.	
2. LABOR, MATERIALS, CONSTRUCTION METHODS AND WORK TO CONFORM TO THE LATEST GOVERNING CODES, RULES AND REGULATIONS FOR THIS PROJECT AND JURISDICTION. THE MOST STRINGENT SHALL PREVAIL.	
3. WHEN REQUIRED BY CODE, RULES OR REGULATIONS, WORK MUST BE INSPECTED AND APPROVED BY AUTHORITY HAVING JURISDICTION.	
4. VERIFY EXISTING SITE CONDITIONS PRIOR TO STARTING WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.	
5. VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND/OR CONSTRUCTION; NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE DRAWINGS WHICH AFFECT THE SCOPE AND INTENT OF THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.	
6. DO NOT MEASURE DRAWINGS. DIMENSIONS TO BE FIELD MEASURED AND VERIFIED. NOTIFY ARCHITECT OF ANY DISCREPANCIES.	
7. FIELD VERIFY DIMENSIONS OF OPENINGS FOR DOORS AND WINDOWS PRIOR TO FABRICATION.	
8. FIELD VERIFY SPACES REQUIRING CABINETS, COUNTERS, CASEWORK, ETC. PRIOR TO FABRICATION.	
9. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL CHASE SIZES AND LOCATIONS.	
10. GYPSUM BOARD TO BE 5/8" TYPE 'X' FIRE RATED UNLESS NOTED OTHERWISE.	
11. GYPSUM BOARD AT NON-RATED INTERIOR PARTITIONS TERMINATES 6" (MINIMUM) ABOVE THE HIGHEST ADJACENT CEILING UNLESS NOTED OTHERWISE.	
12. SCRIBE GYPSUM BOARD TO IRREGULARITIES OF ADJACENT SURFACES; SEAL TIGHT AROUND PENETRATIONS.	
13. SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES WITH APPROVED MATERIALS AND METHODS MEETING REQUIREMENTS OF AGENCY HAVING JURISDICTION.	
14. NEW WORK TO ALIGN WITH AND MATCH EXISTING EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED.	
15. WHEN EXISTING EQUIPMENT, FIXTURES, PIPING, DUCTS, ETC. ARE REMOVED SUCH REMOVAL SHALL INCLUDE ANCHORS, HANGERS, BASE, ETC.; AFTER REMOVAL, PATCH FLOORS, WALLS AND CEILINGS TO MATCH ADJACENT SURFACES IN MATERIAL, TEXTURE AND COLOR.	
16. PATCH EXISTING PARTITIONS AND WALLS WITHIN THE SCOPE OF THE PROJECT THAT ARE DENTED OR DAMAGED AND FILL ALL NAIL HOLES, ETC. TO PREPARE FOR FINISH AS PER NEW FINISHES REQUIREMENTS.	
17. PATCH AND REPAIR PARTITIONS, WALLS AND FLOORS CUT OUT FOR MECHANICAL, PLUMBING OR ELECTRICAL WORK.	
18. PROVIDE GYPSUM BOARD BARRIER (FIRE RATED ASSEMBLIES WHERE REQUIRED) WITH ACCESS BETWEEN CONSTRUCTION AREA AND EXISTING AREA TO REMAIN. NO FUMES, DUST OR DEBRIS IS PERMITTED OUTSIDE OF THE CONSTRUCTION BARRIER.	

DISCLAIMER

THESE COMPOSITION PLANS WERE DEVELOPED USING THE RECORD CONSTRUCTION PLANS PROVIDED BY THE CLIENT. RECORD DRAWINGS WERE UTILIZED TO GENERATE THE COMPOSITE PLANS. VERIFICATIONS WERE MADE FOR MINOR ALTERATION AND DEVIATIONS FROM THE ORIGINAL CONSTRUCTION PLANS. EXTENSIVE AS-BUILT VERIFICATION WAS NOT PERFORMED FOR THE COMPOSITE PLANS. THE COMPOSITE PLANS WERE UTILIZED FOR THE BASE PLANS FOR THE DEVELOPMENT OF THE MECHANICAL AND ELECTRICAL COMPOSITE PLANS. LIMITED FIELD VERIFICATION OF MECHANICAL AND ELECTRICAL SYSTEMS WERE PERFORMED TO DETERMINE LOCATIONS OF MAJOR COMPONENTS, FIRE PROTECTION AND LIFE SAFETY SYSTEMS



PROJECT DATA	
PROJECT NAME	HCA - LEE'S SUMMIT MEDICAL CENTER - INPATIENT BED EXPANSION
ADDRESS	2100 SE BLUE PKWAY LEE'S SUMMIT, MO 64063
BRIEF PROJECT DESCRIPTION	THIS PACKAGE INCLUDES THE FOLLOWING EXTERIOR AND SITE COMPONENTS OF THE INPATIENT BED EXPANSION PROJECT AT LEE'S SUMMIT MEDICAL CENTER FOR THE FINAL DEVELOPMENT PLAN APPLICATION: - REMOTE PARKING LOT - PEDESTRIAN WALKWAY BRIDGE FROM REMOTE PARKING LOT TO HOSPITAL PARKING LOT - EXTERIOR ELEVATIONS FOR DIETARY EXPANSION AT LEVEL 1 AND INPATIENT BED TOWER EXPANSION ON LEVEL 3

SHEET INDEX		FINAL DEVELOPMENT PACKAGE - FIRST REVIEW - 07/24/2024	FINAL DEVELOPMENT PACKAGE - 2ND REVIEW - 08/28/2024
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		R = REVISED SHEET	
		F = FOR REFERENCE ONLY	
		D = DELETED SHEET	
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DP-GI001	SHEET INDEX	X	R
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DP-S001	PEDESTRIAN BRIDGE STRUCTURAL NOTES		X
DP-S201	PEDESTRIAN BRIDGE STRUCTURAL SECTIONS AND DETAILS		X
DP-ARCHITECTURAL SITE			
DP-AS002	ARCHITECTURAL SITE PLAN	X	
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C5.0	OVERALL LAYOUT PLAN	X	
C5.1	DETAILED LAYOUT PLAN	X	
C5.2	DETAILED LAYOUT PLAN	X	
C6.0	OVERALL GRADING & DRAINAGE PLAN	X	
C6.1	DETAILED GRADING & DRAINAGE PLAN	X	
C6.2	DETAILED GRADING & DRAINAGE PLAN	X	
C6.3	DETAILED GRADING & DRAINAGE PLAN	X	R
C6.4	PEDESTRIAN BRIDGE PLAN & PROFILE	X	
C7.0	OVERALL UTILITY PLAN	X	
C7.1	DETAILED UTILITY PLAN	X	
C8.0	SITE DETAILS	X	
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L1.0	OVERALL LANDSCAPE PLAN	X	
L1.1	DETAILED LANDSCAPE PLAN	X	
L1.2	DETAILED LANDSCAPE PLAN	X	
L2.0	LANDSCAPE DETAILS	X	
ARCHITECTURAL			
AE201	EXTERIOR BUILDING ELEVATIONS	X	R
AE202	EXTERIOR BUILDING ELEVATIONS	X	
AE203	EXTERIOR BUILDING ELEVATIONS	X	
DP-MEP			
DP-E00-00	GENERAL INFORMATION - ELECTRICAL	X	
DP-E01-01	SITE PLAN - PHOTOMETRICS	X	
DP-E01-E02	SITE PLAN - ELECTRICAL	X	
DP-E07-01	DETAILS - ELECTRICAL		X
DP-E08-01	SCHEDULES - ELECTRICAL	X	

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Consultant:

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**SITE & BRIDGE
EARLY RELEASE
PACKAGE**

HCA - LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
097240009

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 2024/08/28
SCALE:
DRAWN:
REVIEWED:
JOB NUMBER: 6406.24

SHEET INDEX

DP-GI001

Autodesk Docs://6406.24.0001 - HCA - LEE'S SUMMIT Medical Surge Expansion.rvt 8/28/2024 8:31:52 AM

REFER TO CIVIL DRAWINGS
FOR PARKING SUMMARY.



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INPATIENT BED
EXPANSION

HCA - LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
097240009

AGENCY APPROVALS:
AGENCY

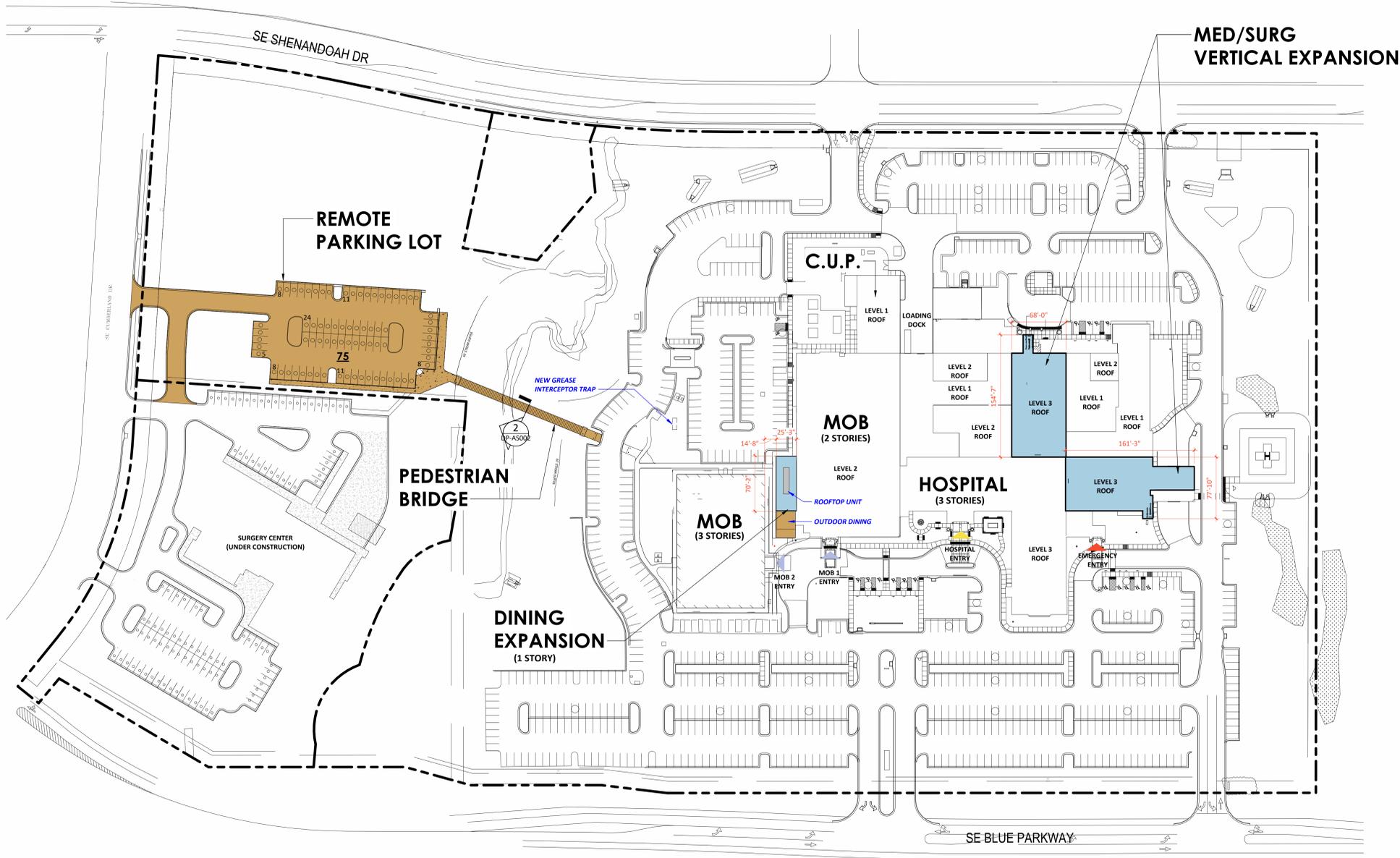
REVISIONS

REV #	DESCRIPTION	DATE

DATE: 05/24/2024
SCALE: As indicated
DRAWN:
REVIEWED:
JOB NUMBER: 6406.24

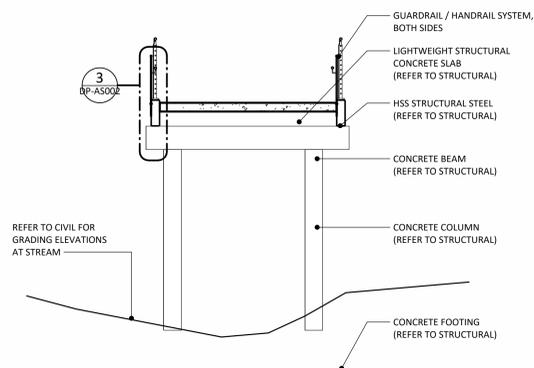
ARCHITECTURAL SITE PLAN

DP-AS002



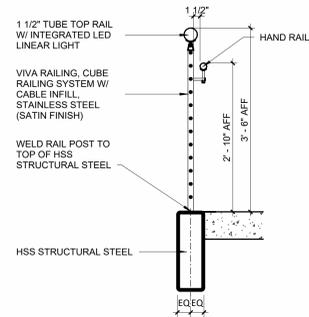
1 ARCHITECTURAL SITE PLAN

1/64" = 1'-0"



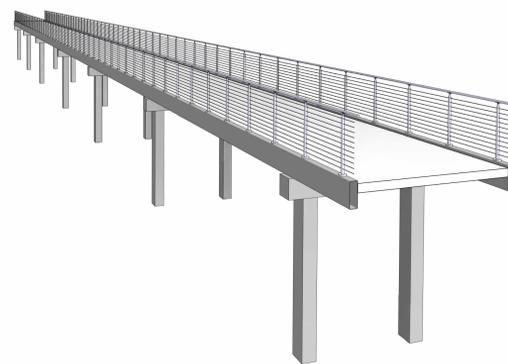
2 PEDESTRIAN BRIDGE SECTION

1/4" = 1'-0"



3 GUARDRAIL/HANDRAIL SECTION AT STAIR

3/4" = 1'-0"



4 PEDESTRIAN BRIDGE

1/4" = 1'-0"

Autodesk Docs://6406.24.001 - HCA - LSC Med Surg Expansion.rvt | 7/24/2024 8:32:27 PM | LSC Med Surg Expansion.rvt

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**SITE & BRIDGE
 EARLY RELEASE
 PACKAGE**

**HCA - LEE'S SUMMIT
 MEDICAL CENTER
 2100 SE BLUE PKWY
 LEE'S SUMMIT, MO 64063**

AUTHORITY HAVING JURISDICTION:
 CITY OF LEE'S SUMMIT BUILDING DEPT.

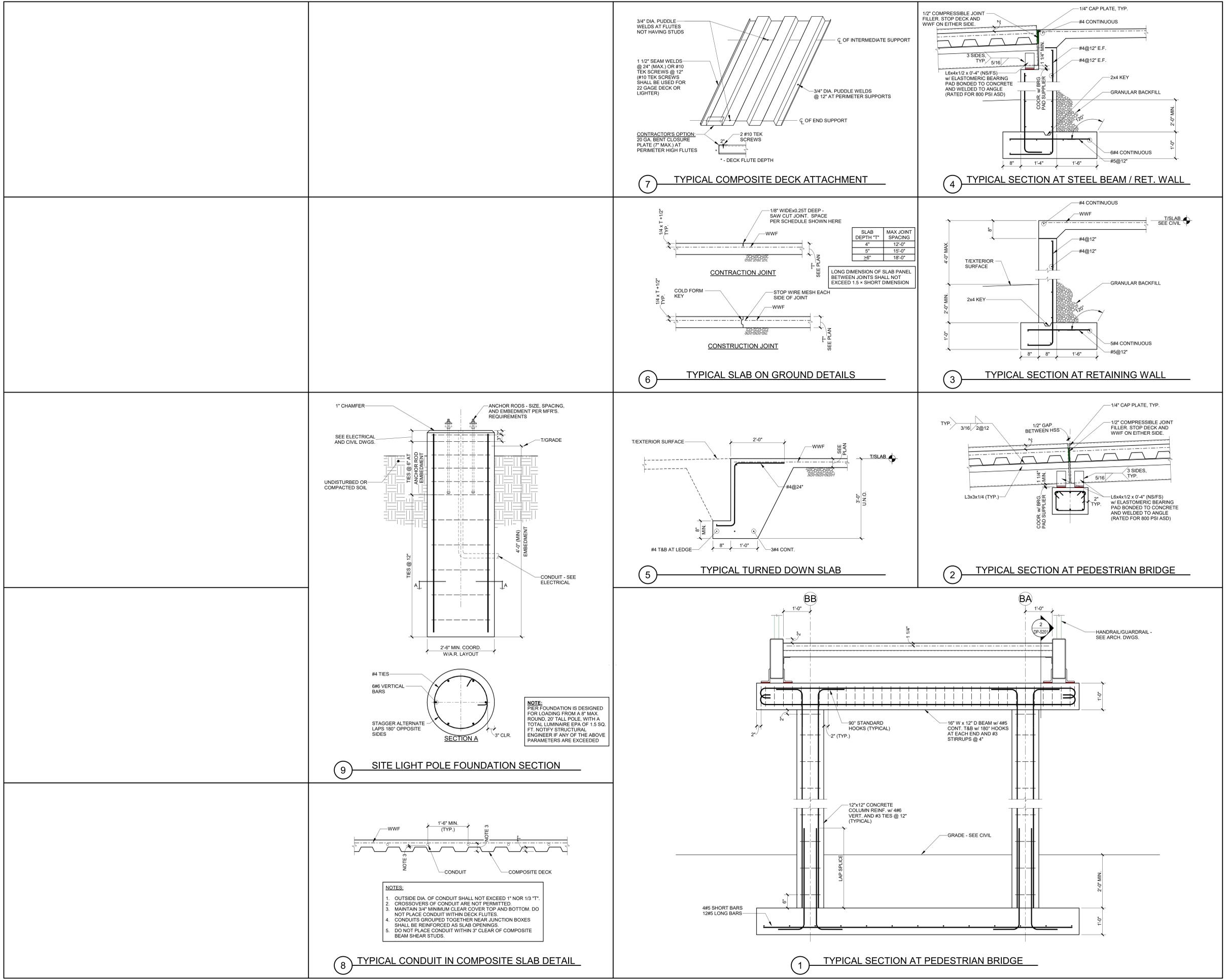
FACILITY NUMBER:
 097240009

AGENCY APPROVALS:
 AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 2024/08/28
SCALE: 3/4" = 1'-0"
DRAWN: JL
REVIEWED: JDP
JOB NUMBER: 6406.24

**PEDESTRIAN BRIDGE
 STRUCTURAL SECTIONS AND
 DETAILS**



Autodesk Docs://6406.24.001 - HCA - LSC/Medburg Expansion - nvt237405100-lee's Summit_MJC_Med Surg_Bed_Expansion_S0123.rvt
 8/29/2024 6:47:48 AM

FINAL DEVELOPMENT PLAN

HCA LEE'S SUMMIT MEDICAL CENTER

LEE'S SUMMIT, JACKSON COUNTY COUNTY, MO

CATALYST PROJECT NO. 20240037
OCTOBER 28, 2024

SITE DATA

TAX MAP: 60
 PARCEL ID.: 60-420-99-15-00-0-00-000
 SITE ADDRESS: 2000 SHENANDOAH DRIVE
 LEE'S SUMMIT, MO 64063
 SITE ACREAGE: 24.48 AC. (1,066,349 FT²)
 EXISTING ZONING: CP-2
 PROPOSED USE: HOSPITAL

IMPERVIOUS SURFACE AREA: 0.04 AC. (1,766 FT²)
 BUILDINGS: 5 SPACES / 1,000SF
 DRIVES/SIDEWALKS: 0.94 AC. (40,787 FT²)
 TOTAL PROPOSED IMPERVIOUS AREA: 0.98 AC. (42,553 FT²)

PARKING SUMMARY

PARKING REQUIRED:
 HOSPITAL: 1.8 SPACES / BED
 MOB: 5 SPACES / 1,000SF
 PROPOSED 26 BED FACILITY: 1.8 SPACES / BED

LEE'S SUMMIT MEDICAL CENTER					
COMPONENT	EXISTING PARKING	DISPLACED PARKING	ADDED PARKING	ACTUAL PARKING	CODE REQUIRED PARKING
EXISTING (88 BEDS + 122,799 SF OF MOB'S)	752	0	0	752	773
PROPOSED PROJECT - (26 BED ADD/TOTAL 114 BEDS)	752	2	75	825	820

TOTAL PARKING REQUIRED:
 88 BEDS X 1.8 SPACES = 159 SPACES REQUIRED
 (122,799 SF OF MOB'S / 1,000SF) X 5 = 614 SPACES REQUIRED
 26 BEDS X 1.8 SPACES = 47 SPACES REQUIRED
 TOTAL REQUIRED: 820 SPACES REQUIRED
 EXISTING PARKING: 752 SPACES

PARKING PROVIDED:
 STANDARD PARKING: 795 SPACES
 ADA PARKING: 35 SPACES
 TOTAL PROVIDED PARKING: 825 SPACES

THE 30 EXISTING ADA SPACES EXCEED THE ADA PARKING REQUIREMENT (17 ADA SPACES) WITH THE REMOTE PARKING LOT ADDITION.

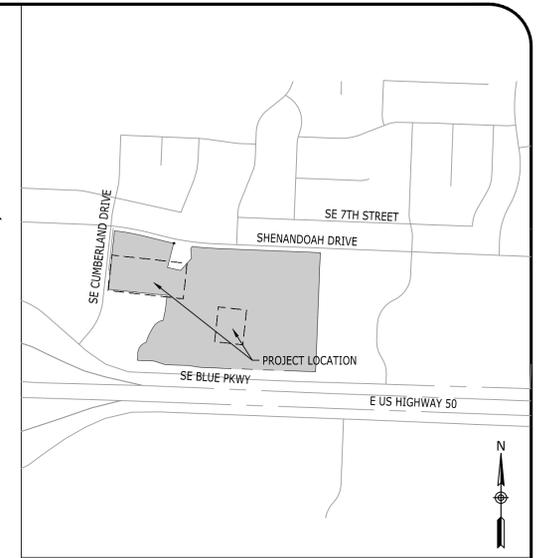
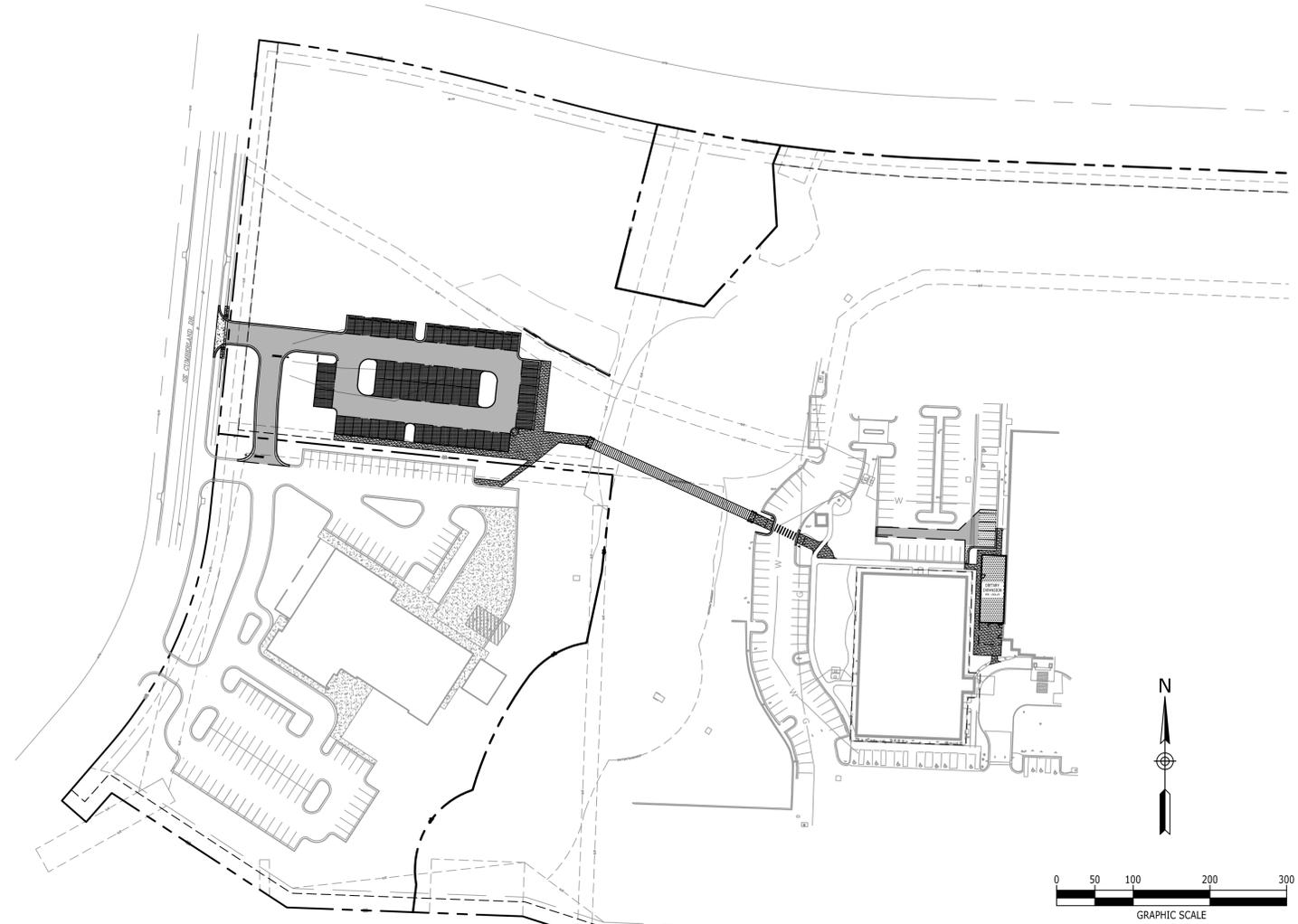
OWNER: MIDWEST DIVISION LSH LLC
 ADDRESS: PO BOX 80610
 INDIANAPOLIS, IN 46280

PROJECT REPRESENTATIVE: CATALYST DESIGN GROUP
 ADDRESS: 1524 WILLIAMS DRIVE
 MURFREESBORO, TN 37129
 PHONE NO.: 615-701-6411
 CONTACT NAME: JACK PARKER
 CONTACT E-MAIL ADDRESS: jparker@catalyst-dg.com

FEMA PANEL:
 THE SUBJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 29095C0439G, 01/20/2017, COMMUNITY NAME: JACKSON COUNTY.

LEGAL DESCRIPTION:

A TRACT OF LAND IN THE NORTHWEST QUARTER OD SECTION 36, TOWNSHIP 48, RANGE 32 IN THE CITY OD LEE'S SUMMIT, JACKSON COUNTY, MISSOURI MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF THE NORTHWEST QUARTER OF SAID SECTION 36; THENCE NORTH 86 DEGREES 19 MINUTES 41 SECONDS WEST, ALONG THE SOUTH LINE OF SAID NORTHWEST QUARTER OD SAID SECTION 36, 310.15 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF OLD MISSOURI HIGHWAY 50, SAID POINT BEING THE TRUE POINT OF BEGINNING; THENCE CONTINUING ALONG A PROLONGATION OF THE LAST DESCRIBED COURSE, 225.49 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE OF RELOCATED MISSOURI HIGHWAY 50; THENCE NORTHEASTERLY ALONG A CURVE TO THE LEFT, ALONG SAID EASTERLY RIGHT-OF-WAY LINE, HAVING A RADIAL BEARING OF NORTH 74 DEGREES 59 MINUTES 09 SECONDS WEST AND A RADIUS OF 1104.93 FEET AN ARC DISTANCE OF 140.47 FEET, SAID POINT BEING 150.00 FEET EASTERLY FROM STA. 11+26.6 ON SAID RELOCATED MISSOURI HIGHWAY 50, AS MEASURED PERPENDICULAR THERETO; THENCE NORTH 7 DEGREES 43 MINUTES 49 SECONDS EAST, PARALLEL WITH SAID RAMP BAND ALONG SAID EASTERLY RIGHT-OF-WAY LINE, 180.60 FEET TO A POINT 150.00 FEET RIGHT OF STA 13+07.20 ON SAID RAMP 8, AS MEASURED PERPENDICULAR THERETO; THENCE NORTHEASTERLY ALONG A CURVE TO THE RIGHT, ALONG SAID EASTERLY RIGHT-OF-WAY LINE HAVING A RADIAL BEARING OF SOUTH 82 DEGREES 16 MINUTES 11 SECONDS EAST AND A RADIUS OF 613.94 FEET AN ARC DISTANCE OF 23.99 FEET TO A POINT 150.00 FEET RIGHT OF STA 13+37.05 ON SAID RAMP 8, AS MEASURED PERPENDICULAR THERETO; THENCE NORTH 77 DEGREES 07 MINUTES 26 SECONDS EAST, ALONG THE SOUTHERLY RIGHT-OF-WAY LINE OF INTERSTATE ROUTE 470, 61.96 FEET (60.9 FEET RECORD) TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF OLD MISSOURI HIGHWAY 50, SAID POINT BEING 90.00 FEET RIGHT OF STA 540+50.00 AS MEASURED PERPENDICULAR THERETO; THENCE SOUTH 16 DEGREES 28 MINUTES 19 SECONDS EAST ALONG SAID WESTERLY RIGHT-OF-WAY LINE, 384.30 FEET TO THE TRUE POINT OF BEGINNING.



VICINITY MAP
NOT TO SCALE

Sheet List Table	
Sheet Number	Sheet Title
C0.0	COVER SHEET
C1.0	EXISTING CONDITIONS
C2.0	GENERAL NOTES
C3.0	INITIAL EROSION CONTROL PLAN
C3.1	FINAL EROSION CONTROL PLAN
C3.2	SEDIMENT AND EROSION CONTROL DETAILS
C3.3	SEDIMENT AND EROSION CONTROL DETAILS
C4.0	OVERALL DEMOLITION PLAN
C4.1	DETAILED DEMOLITION PLAN
C4.2	DETAILED DEMOLITION PLAN
C5.0	OVERALL LAYOUT PLAN
C5.1	DETAILED LAYOUT PLAN
C5.2	DETAILED LAYOUT PLAN
C6.0	OVERALL GRADING & DRAINAGE PLAN
C6.1	DETAILED GRADING & DRAINAGE PLAN
C6.2	DETAILED GRADING & DRAINAGE PLAN
C6.3	DETENTION BASIN DETAILS
C6.4	PEDESTRIAN BRIDGE PLAN & PROFILE
C7.0	OVERALL UTILITY PLAN
C7.1	DETAILED UTILITY PLAN
C8.0	SITE DETAILS
C8.1	SITE DETAILS
L1.0	OVERALL LANDSCAPE PLAN
L1.1	DETAILED LANDSCAPE PLAN
L1.2	DETAILED LANDSCAPE PLAN
L2.0	LANDSCAPE DETAILS

ARCHITECT
DEVENNEY GROUP LTD., ARCHITECTS
 6900 EAST CAMELBACK ROAD, SUITE 500
 SCOTTSDALE, AZ 85251
 602-943-8950

PREPARED FOR
LEE'S SUMMIT MEDICAL CENTER
 2100 SE BLUE PARKWAY
 LEE'S SUMMIT, MO 64063
 816-282-5000

CIVIL ENGINEER/LANDSCAPE ARCHITECT



COVER SHEET

C0.0



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 T: 602.943.8950
 www.devenneygroup.com

Consultant:

 1524 WILLIAMS DRIVE, SUITE 201, MURFREESBORO, TN 37129
 (615) 622-7200 | WWW.CATALYST-DG.COM



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**SITE & BRIDGE
 EARLY RELEASE
 PACKAGE**

HCA - LEE'S SUMMIT
 MEDICAL CENTER
 2100 SE BLUE PKWY
 LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
 CITY OF LEE'S SUMMIT BUILDING DEPT.
 MISSOURI DHS

FACILITY NUMBER:
 0972400009

AGENCY APPROVALS:
 AGENCY

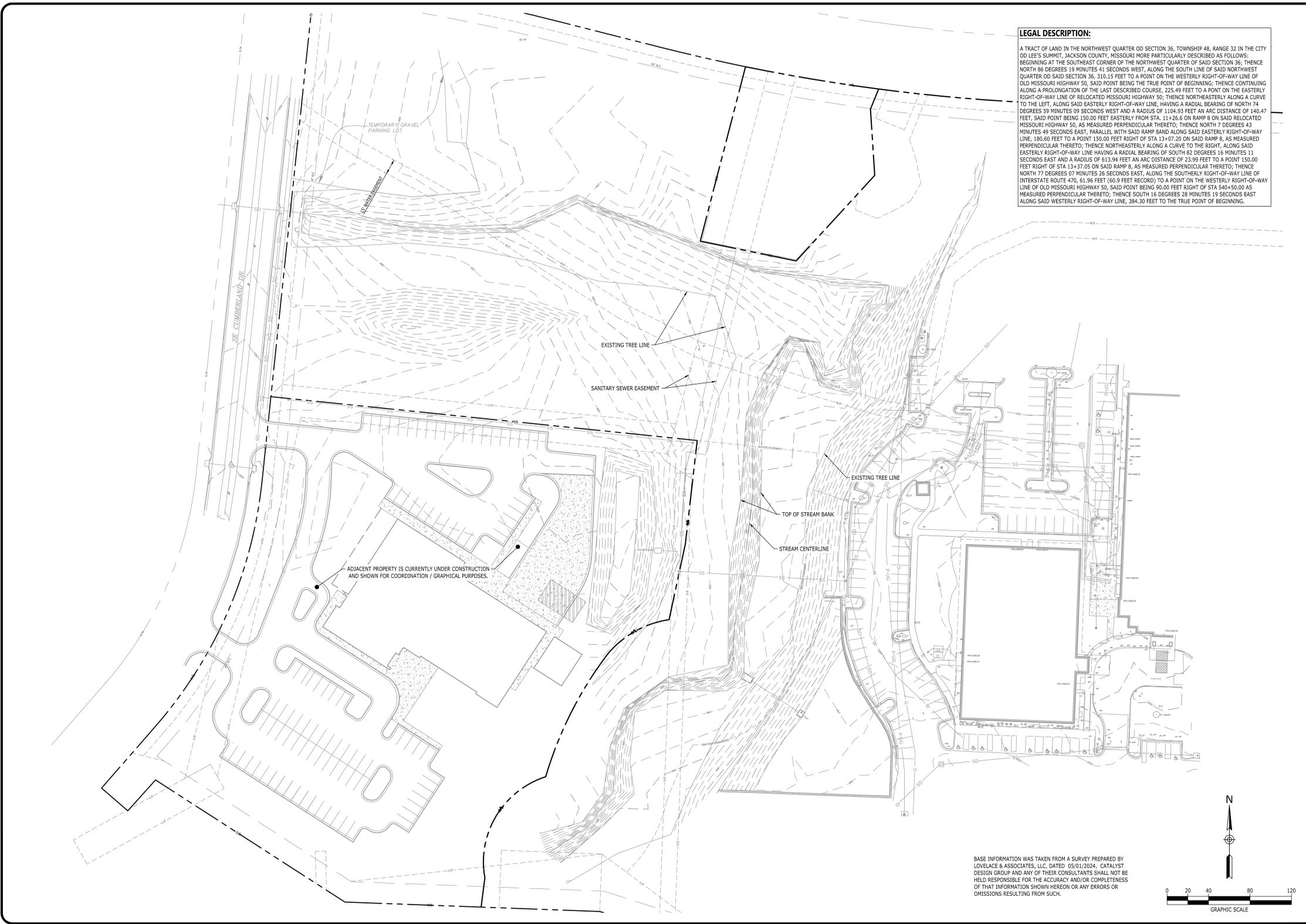
REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 2024/09/19
 SCALE: 1:40
 DRAWN: AP
 REVIEWED: WB
 JOB NUMBER: 6406.24

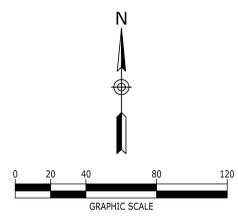
EXISTING
 CONDITIONS

DP-C1.0

LEGAL DESCRIPTION:
 A TRACT OF LAND IN THE NORTHWEST QUARTER OF SECTION 36, TOWNSHIP 48, RANGE 32 IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF THE NORTHWEST QUARTER OF SAID SECTION 36; THENCE NORTH 86 DEGREES 19 MINUTES 41 SECONDS WEST, ALONG THE SOUTH LINE OF SAID NORTHWEST QUARTER OF SAID SECTION 36, 310.15 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF OLD MISSOURI HIGHWAY 50, SAID POINT BEING THE TRUE POINT OF BEGINNING; THENCE CONTINUING ALONG A PROLONGATION OF THE LAST DESCRIBED COURSE, 225.49 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE OF RELOCATED MISSOURI HIGHWAY 50; THENCE NORTHEASTERLY ALONG A CURVE TO THE LEFT, ALONG SAID EASTERLY RIGHT-OF-WAY LINE, HAVING A RADIAL BEARING OF NORTH 74 DEGREES 59 MINUTES 09 SECONDS WEST AND A RADIUS OF 1104.93 FEET AN ARC DISTANCE OF 140.47 FEET, SAID POINT BEING 150.00 FEET EASTERLY FROM STA. 11+26.6 ON SAID RELOCATED MISSOURI HIGHWAY 50, AS MEASURED PERPENDICULAR THERETO; THENCE NORTH 7 DEGREES 43 MINUTES 49 SECONDS EAST, PARALLEL WITH SAID RAMP BAND ALONG SAID EASTERLY RIGHT-OF-WAY LINE, 180.60 FEET TO A POINT 150.00 FEET RIGHT OF STA 13+07.20 ON SAID RAMP 8, AS MEASURED PERPENDICULAR THERETO; THENCE NORTHEASTERLY ALONG A CURVE TO THE RIGHT, ALONG SAID EASTERLY RIGHT-OF-WAY LINE HAVING A RADIAL BEARING OF SOUTH 82 DEGREES 16 MINUTES 11 SECONDS EAST AND A RADIUS OF 613.94 FEET AN ARC DISTANCE OF 23.99 FEET TO A POINT 150.00 FEET RIGHT OF STA 13+37.05 ON SAID RAMP 8, AS MEASURED PERPENDICULAR THERETO; THENCE NORTH 77 DEGREES 07 MINUTES 26 SECONDS EAST, ALONG THE SOUTHERLY RIGHT-OF-WAY LINE OF INTERSTATE ROUTE 470, 61.96 FEET (60.9 FEET RECORD) TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF OLD MISSOURI HIGHWAY 50, SAID POINT BEING 90.00 FEET RIGHT OF STA 540+50.00 AS MEASURED PERPENDICULAR THERETO; THENCE SOUTH 16 DEGREES 28 MINUTES 19 SECONDS EAST ALONG SAID WESTERLY RIGHT-OF-WAY LINE, 384.30 FEET TO THE TRUE POINT OF BEGINNING.



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LEE'S SUMMIT
 MEDICAL CENTER
 2100 SE BLUE PARKWAY
 LEE'S SUMMIT, MO 64063
 816-282-5000

FINAL DEVELOPMENT PLAN
 HCA LEE'S SUMMIT
 MEDICAL CENTER
 2000 SE SHENANDOAH DRIVE
 LEE'S SUMMIT, MO, 64063
 JACKSON COUNTY

NO.	DATE	DESCRIPTION

DRAWING TITLE
**EXISTING
 CONDITIONS**

PROJECT NUMBER
 20240037

DRAWING NUMBER
DP-C1.0

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\20240037_EVL\dwg-DP-C1.dwg EXISTING CONDITIONS Oct 28, 2024 wblsard

6/19/2024 2:05:24 PM AutoCAD Docx/1/16/24 2:00:01 LEE - SANCTUARY Expansion.mxd 2/3/6406.24(DD) HCA - SANCTUARY Expansion.rvt



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SITE & BRIDGE EARLY RELEASE PACKAGE

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

PROJECT NUMBER	20240037
DRAWING NUMBER	DP-C2.0

DATE: 2024/09/19
SCALE:
DRAWN: AP
REVIEWED: WB
JOB NUMBER: 6406.24

GENERAL NOTES

DP-C2.0



LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
816-282-5000

FINAL DEVELOPMENT PLAN
HCA LEE'S SUMMIT MEDICAL CENTER
2000 SE SHENANDOAH DRIVE
LEE'S SUMMIT, MO, 64063
JACKSON COUNTY

N.O.	DATE	DESCRIPTION

DRAWING TITLE

GENERAL NOTES

DP-C2.0

STORM SEWER NOTES

- ALL STORMWATER PIPES, STRUCTURES, AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL AND STATE STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL FOLLOW CONSTRUCTION PLANS AND MANUFACTURER DETAILS, SPECIFICATIONS, AND INSTALLATION INSTRUCTIONS AS INCLUDED WITHIN THE PLANS AND PROVIDED BY THE MANUFACTURER FOR THE INSTALLATION OF PIPES, STRUCTURES, WATER QUALITY UNITS AND FABRICATED DETENTION SYSTEMS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STORM SEWER PIPE, STRUCTURES, WATER QUALITY STRUCTURES, AND FABRICATED DETENTION STRUCTURES FOR ENGINEER AND OWNER APPROVAL PRIOR TO ORDERING MATERIALS.
- PIPE SPECIFICATIONS:
 - REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III, WALL TYPE 'B' CONFORMING TO ASTM C76 UNLESS OTHERWISE NOTED WITH BELL-AND-SPIGOT AND GASKETED JOINTS WITH ASTM C443 RUBBER GASKETS OR MASTIC SEAL CONFORMING TO ASTM C996. RCP SHALL BE INSTALLED PER THE RECOMMENDATIONS OF ASTM C1479.
 - CLASS IV RCP PIPE IS REQUIRED FOR FILL HEIGHTS OVER 13' OR WHERE NOTED BY THE ENGINEER.
 - HIGH DENSITY POLYETHYLENE (HDPE) PIPE SHALL BE DUAL-WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR. HDPE PIPE SHALL CONFORM TO ASTM D3350 WITH RUBBER GASKET SOIL TIGHT JOINTS CONFORMING TO ASTM F477. THERMOPLASTIC PIPING SHALL BE INSTALLED PER THE RECOMMENDATIONS OF ASTM C2321.
 - HIGH-PERFORMANCE POLYPROPYLENE (PP) PIPE SHALL BE DUAL-WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR, CONFORMING TO ASTM F2981 AND ASHOTO M333 WITH GASKETED SOIL TIGHT JOINTS CONFORMING TO ASTM F477. THERMOPLASTIC PIPING SHALL BE INSTALLED PER THE RECOMMENDATIONS OF ASTM C2321.
 - ALL PIPES SHALL BE INSTALLED, AT A MINIMUM, WITH SOIL TIGHT JOINTS AND BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND ASHOTO SECTION 30.
 - PIPE BEDDING, BACKFILL, AND COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH LOCAL AND STATE DEPARTMENT OF TRANSPORTATION DETAILS AND SPECIFICATIONS.
 - PIPES UNDER EXISTING PAVEMENT AREAS SHALL BE COMPLETELY BACKFILLED WITH CRUSHED STONE OR PER LOCAL AUTHORITY STANDARD REQUIREMENTS. PAVEMENT SECTIONS SHALL MEET OR EXCEED EXISTING CONDITIONS WITH A SMOOTH TRANSITION.
 - STORM STRUCTURE SPECIFICATIONS:
 - STORM INLETS AND MANHOLES SHALL BE PRECAST IN COMPLIANCE WITH THE LOCAL/STATE JURISDICTIONAL AUTHORITY'S STANDARD DETAILS AND SPECIFICATIONS, AND MEET OR EXCEED SPECIFICATIONS OF ASTM C478/C913. STRUCTURES SHALL BE TRAFFIC RATED PER H-20 LOADING REQUIREMENTS.
 - REFER TO STRUCTURE TABLE FOR CASTING FRAME AND GRATE TYPES, FRAMES AND GRATES TO BE PROVIDED IN ACCORDANCE WITH THE LOCAL/STATE JURISDICTIONAL AUTHORITY'S STANDARD DETAILS AND SPECIFICATIONS AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - PIPE CONNECTIONS TO STRUCTURES:
 - FLEXIBLE, WATER TIGHT GASKETS SHALL COMPLY WITH ASTM C933
 - NON-SHRINK GROUT PER ASTM C1107
 - FRAMES AND GRATES:
 - MATERIAL: GRAY IRON CLASS 35 PER ASTM A48 UNLESS OTHERWISE INDICATED.
 - REFER TO PIPE AND STRUCTURE TABLE FOR CASTING TYPES. INSTALL REDUCERS AS NECESSARY PER MANUFACTURER'S SPECIFICATIONS TO ACCOMMODATE LARGER PIPE DIAMETERS OR CASTING SIZES.
 - TOP OF GRATE ELEVATIONS FOR DRAINAGE STRUCTURES SHALL BE PROVIDED PER THE DETAILS AND STRUCTURE TABLE.
 - CONTRACTOR SHALL PLACE STRUCTURES BASED ON THE ACTUAL DIMENSIONS OF ORDERED STRUCTURE/GRATE TO ALIGN WITH PROPOSED OR EXISTING CURB LINE. STRUCTURES SHOULD NOT BE INSTALLED BASED SOLELY ON STRUCTURE CENTERLINES.
 - COORDINATE THE LOCATION OF SITE DRAINAGE SYSTEMS WITH THE BUILDING ARCHITECTURE AND PLUMBING PLANS FOR COLLECTION OF ROOF DRAINS AND DOWNSPOUTS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - ADJUST THE CASTINGS OF ALL EXISTING AND NEW STRUCTURES TO MATCH PROPOSED FINISH GRADE ENSURING POSITIVE DRAINAGE IS STILL MAINTAINED. SLOPE THE TOPS OF CASTINGS TO MATCH SLOPES OF PROPOSED PAVEMENTS AND SIDEWALKS.

SITE UTILITY NOTES

- THE CONTRACTOR SHALL REQUEST UTILITY LOCATIONS (811) AND VERIFY LOCATIONS OF ALL OTHER PRIVATE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE AND REPAIR IF DAMAGED PER PROVIDER REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL WORK AROUND EXISTING UTILITIES WITH CORRESPONDING PROVIDER.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS OF EACH UTILITY AND VERIFY THE SCOPE OF INSTALLATIONS OR RELOCATIONS THAT WILL BE REQUIRED TO AVOID CONFLICTING HORIZONTAL AND VERTICAL LOCATIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL PUBLIC WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE TO THE GOVERNING AUTHORITY'S REQUIREMENTS AND SPECIFICATIONS. IF THE GOVERNING AUTHORITY DOES NOT HAVE MATERIAL RECOMMENDATIONS FOR PRIVATE UTILITIES, THEN THE CONTRACTOR SHALL PROVIDE PRIVATE MATERIALS IN ACCORDANCE WITH PUBLIC STANDARDS. OTHERWISE, THE FOLLOWING MINIMUM STANDARDS SHALL BE MET:
 - PRIVATE GRAYWATER SANITARY SEWER APPLICATIONS:
 - POLYVINYL CHLORIDE PIPE (PVC) 4" AND GREATER SHALL BE SDR 35, PER ASTM D3034 OR ASTM F479
 - JOINTS: ELASTOMERIC GASKETED, BELL AND SPIGOT, PUSH-ON TYPE PROVIDING A WATER TIGHT SEAL PER ASTM D3212.
 - DUCTILE IRON PIPE (DIP) SHALL BE PRESSURE CLASS 350 COMPLYING WITH LATEST VERSION OF AWWA C150/C151
 - JOINTS AND FITTINGS: MECHANICAL, PUSH-ON JOINTS, OR FLANGED JOINTS CONFORMING TO AWWA STANDARD C110/C111/C151.
 - LINER AND COATINGS: INTERIOR LINER 40 MIL DRY FILM, PERMA SHIELD 431 FL OR APPROVED EQUIV AND ASPHALTIC EXTERIOR COATINGS CONFORMING TO AWWA C151 FOR ALL PIPES, JOINTS, AND FITTINGS.
 - PRIVATE POTABLE WATER APPLICATIONS:
 - POLYVINYL CHLORIDE PIPE (PVC) LESS THAN 4" SHALL BE SCHEDULE 40 PVC PIPE PER ASTM D1785
 - JOINTS AND FITTINGS: SOLVENT CEMENTED JOINTS PER ASTM D2672, PVC FITTINGS PER ASTM D2466
 - POLYVINYL CHLORIDE PIPE (PVC) 4" AND GREATER SHALL BE AWWA C900, DR-18
 - JOINTS AND FITTINGS: RESTRAINED GASKETED JOINTS PER ASTM F477 AND ASTM D3339. DIP FITTINGS WITH RESTRAINED JOINTS CONFORMING TO AWWA STANDARD C110/C111/C153 ARE TO BE USED.
 - LINING & COATING: INTERIOR CEMENT MORTAR LINING CONFORMING TO AWWA C104 REQUIREMENTS AND ASPHALTIC EXTERIOR COATINGS CONFORMING TO AWWA C151 FOR ALL PIPES, JOINTS, AND FITTINGS.
 - DUCTILE IRON PIPE (DIP) 16" AND BELOW SHALL BE PRESSURE CLASS 350 COMPLYING WITH LATEST VERSION OF AWWA C150/C151.
 - JOINTS AND FITTINGS: MECHANICAL OR PUSH-ON JOINTS OR FLANGED JOINTS CONFORMING TO AWWA STANDARD C110/C111/C151/C153.
 - LINING & COATING: INTERIOR CEMENT MORTAR LINING CONFORMING TO AWWA C104 AND ASPHALTIC EXTERIOR COATINGS CONFORMING TO AWWA C151 FOR ALL PIPES, JOINTS, AND FITTINGS.
 - COPPER PIPE (CU) SHALL BE TYPE 'K' ANNEALED PER ASTM B88.
 - JOINTS AND FITTINGS PER AWWA C900.
 - MAINTAIN 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND WATER LINES WHERE POSSIBLE. IN AREAS WHERE THESE CRITERIA CANNOT BE MET, PROVIDE 18" OF VERTICAL SEPARATION, UNLESS OTHERWISE NOTED WITHIN THE PLANS.
 - CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF THE PROPOSED SEWER CONNECTION POINT PRIOR TO INSTALLATION OF NEW LINES. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE UTILIZING THE CORING AND RESILIENT SEAL METHOD IF NOT OTHERWISE NOTED PER LOCAL REGULATIONS.
 - CONTRACTOR SHALL VERIFY ANY PIPE LENGTHS, MATERIALS AND SIZES PROVIDED ON THE PLANS WITH FIELD CONDITIONS AND COORDINATE THE EXACT LOCATION OF THE BUILDING SERVICES WITH THE PLUMBING PLANS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - MINIMUM SLOPE OF 6" SANITARY SEWER SERVICES SHALL BE 1%. INSTALL PER INVERTS PROVIDED ON THE PLAN AND WITH A MINIMUM 48" OF COVER WITHIN ROADWAYS AND 30" OF COVER WITHIN LANDSCAPE AREAS.
 - MARK THE LOCATION OF PVC LINES WITH A #8 WIRE.
 - PROVIDE A MINIMUM OF 36" OF COVER OVER ALL WATER AND FIRE LINES.
 - ALL FIRE LINES SHALL BE INSTALLED FROM THE POINT OF CONNECTION TO THE BUILDING BY A SPRINKLER CONTRACTOR LICENSED IN THE STATE OF MO.
 - PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL BENDS AND BLOCKING/RODDING ON WATER/FIRE LINES TO ACHIEVE THE PROPOSED ALIGNMENT HORIZONTAL ON THE PLANS.
 - BEFORE CONNECTIONS ARE MADE TO EXISTING LINES, INSTALLED LINES SHALL BE FLUSHED, TESTED, AND APPROVED BY THE GOVERNING AUTHORITY IN ACCORDANCE WITH THEIR REQUIREMENTS.
 - REPAIR DAMAGE TO EXISTING FEATURES TO PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH GOVERNING AUTHORITY'S REQUIREMENTS IN A TIMELY MANNER. TRENCHES WITHIN EXISTING PAVEMENTS SHALL BE EVENLY SAW CUT FOR REMOVAL AND COMPLETELY BACKFILLED WITH CRUSHED STONE. REPAIR ROADWAYS PER GOVERNING AGENCY'S STANDARDS.
 - THE CONTRACTOR SHALL TAKE CARE TO PROPERLY COMPACT FILL WITHIN UTILITY TRENCHES AND AROUND OTHER PROJECT FEATURES TO AVOID SETTLEMENT. SETTLEMENT OCCURRING WITHIN 12 MONTHS OF COMPLETION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
 - EXISTING AND NEW CASTINGS SHALL BE ADJUSTED TO MATCH FINISH GRADE. CASTINGS SHALL BE SLOPED TO MATCH SLOPES OF PROPOSED PAVEMENTS AND SIDEWALKS.
 - THE CONTRACTOR SHALL COORDINATE GAS SERVICE, ELECTRICAL SERVICE, AND COMMUNICATION SERVICES WITH THE APPROPRIATE PROVIDER AND PAY NECESSARY FEES FOR INSTALLATION.
 - THE SITE ELECTRICAL INFORMATION SHOWN ON THE CIVIL DRAWINGS IS INCLUDED AS A REFERENCE ONLY, AND IS NOT PART OF THE CIVIL SCOPE ISSUED FOR CONSTRUCTION IN THESE DOCUMENTS. ALL SITE ELECTRICAL COMPONENTS INCLUDING BUT NOT LIMITED TO TRANSFORMERS, SWITCH GEARS, TERMINATING CABINETS, BLAST WALLS, GENERATORS PADS, SERVICE RISER POLES, DOWN-GUY WIRES, OVERHEAD SERVICE LINES AND UNDERGROUND ELECTRICAL CONDUIITS ARE TO BE CONSTRUCTED PER PLANS DEVELOPED BY LOCAL ELECTRICAL SERVICE PROVIDER AND THE PROJECT ELECTRICAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMATION THAT ALL NECESSARY SITE ELECTRICAL COMPONENTS CAN BE INSTALLED IN RELATION TO ALL OTHER REQUIRED SITE FEATURES DEPICTED ON THE PLANS, AND SHALL NOTIFY THE CIVIL AND ELECTRICAL ENGINEER SHOULD A CONFLICT ARISE.

SITE GRADING NOTES

- THE DISTURBED AREA FOR THIS PROJECT IS ESTIMATED TO BE ±2.00 ACRES.
- THE SUBJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 2995C04395 OF THE FEMA FLOOD INSURANCE MAPS FOR JACKSON COUNTY COUNTY, MO, DATED 01/20/2017.
- FOLLOW THE DIRECTIVES OF THE EROSION CONTROL AND TREE PROTECTION NOTES INCLUDED ELSEWHERE IN THESE DOCUMENTS.
- THE GEOLOGICAL REPORT, PREPARED BY OTHERS, IS INCORPORATED BY REFERENCE AND MADE A PART OF THE CONTRACT DOCUMENTS. IT IS INTENDED THAT THE RECOMMENDATIONS IN THE GEOLOGICAL REPORT BE FOLLOWED. IN THE EVENT OF CONFLICTS BETWEEN THE CONSTRUCTION DRAWINGS AND THE GEOLOGICAL REPORT, MAKE NO ASSUMPTIONS. THE ENGINEER SHALL BE IMMEDIATELY BE NOTIFIED FOR CLARIFICATION.
- THE CONTRACTOR SHALL REQUEST UTILITY LOCATIONS (811) AND VERIFY LOCATIONS OF ALL OTHER PRIVATE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE AND REPAIR IF DAMAGED PER PROVIDER REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL WORK AROUND EXISTING UTILITIES WITH CORRESPONDING PROVIDER.
- THE CONTRACTOR SHALL CONFIRM EXISTING GRADES AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND CONTACT THE ENGINEER WITH ANY DISCREPANCIES.
- CONTRACTOR SHALL OBTAIN ALL APPROVALS AND PERMITS PRIOR TO INITIATING GRADING OPERATIONS.
- POSITIVE DRAINAGE SHALL BE ESTABLISHED INITIALLY AND MAINTAINED THROUGHOUT CONSTRUCTION.
- PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE THE FINISH GRADE ELEVATIONS. CONTRACTOR SHALL REQUEST ADDITIONAL INFORMATION FROM THE ENGINEER WHERE INTENT IN THE PROPOSED GRADE IS UNCLEAR.
- STRIP TOPSOIL FROM PROPOSED GRADING AREAS AND STOCKPILE FOR REUSE. PROVIDE TEMPORARY SEEDING FOR STOCKPILE AREAS DURING CONSTRUCTION. REDISTRIBUTE TOPSOIL AT A MINIMUM DEPTH OF 6" IN LAWN AREAS AND 18" IN LANDSCAPE BEDS. PROVIDE ADDITIONAL TOPSOIL WHEN ONSITE QUANTITIES ARE INSUFFICIENT.
- CONTRACTOR WILL PROCURE THE SERVICES OF A QUALIFIED SOILS TESTING LABORATORY/ ENGINEER TO OBSERVE WORK AND MAKE TESTS AS REQUIRED.
- CONTRACTOR SHOULD COMPLETE GRADING ACTIVITIES WITHIN 10 CALENDAR DAYS OF ACHIEVING OPTIMUM SUBGRADE COMPACTION.
- FILL AREAS SHALL BE PROOF ROLLED WITH RUBBER-TIRED EQUIPMENT WITH A MINIMUM WEIGHT OF FIFTEEN TONS PRIOR TO BEGINNING FILL OPERATIONS OR AS DIRECTED BY THE GEOLOGICAL ENGINEER. THE CONTRACTOR SHALL EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY GEOLOGICAL ENGINEER, AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED. COMPACTION OF BACKFILL MATERIALS SHALL BE TO 98% MAXIMUM DRY DENSITY AS PER ASTM D698 (STANDARD PROCTOR), UNLESS OTHERWISE RECOMMENDED BY THE GEOLOGICAL REPORT.
- CUT AREAS SHALL BE PROOF-ROLLED AFTER FINAL SUBGRADE IS ACHIEVED IN THE SAME MANNER AS FILL AREAS. THE CONTRACTOR SHALL EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY GEOLOGICAL ENGINEER, AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED. COMPACTION OF BACKFILL MATERIALS SHALL BE TO 98% MAXIMUM DRY DENSITY AS PER ASTM D698 (STANDARD PROCTOR), UNLESS OTHERWISE RECOMMENDED BY THE GEOLOGICAL REPORT.
- APPLICABLE SPECIFICATIONS FOR COMPACTED FILL: THE FOLLOWING CURRENT AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) STANDARDS ARE HEREBY MADE PART OF THIS SPECIFICATION:
 - C136/136M STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES
 - D421-58 DRY PREPARATION OF SOIL SAMPLES FOR GRAIN-SIZE ANALYSIS AND DETERMINATION OF SOIL CONSTANTS.
 - D422-63 STANDARD METHOD OF PARTICLE SIZE ANALYSIS OF SOILS.
 - D1150-54 METHOD OF TEST FOR AMOUNT OF MATERIAL IN SOILS FINER THAN NO. 200 SIEVE.
 - D698 METHOD FOR LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING STANDARD EFFORT
 - D1557-78 STANDARD TEST METHODS FOR MOISTURE-DENSITY RELATIONS OF SOILS AND SOIL AGGREGATE MIXTURES USING 10LB. (4.54-KG) RAMMER AND 18-INCH (457 MM) DROP.
 - D2487 STANDARD PRACTICE FOR CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES
 - D4318 STANDARD TEST METHODS FOR LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
 - D6938 STANDARD TEST METHODS FOR IN-PLACE DENSITY AND WATER CONTENT OF SOIL AND SOIL-AGGREGATE BY NUCLEAR METHODS
- CONTRACTOR SHALL REVIEW THE SITE SPECIFIC GEOLOGICAL REPORT PRIOR TO COMMENCING WITH GRADING OPERATIONS. WHERE CONFLICTS BETWEEN THE GRADING NOTES AND GEOLOGICAL REPORT EXISTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CLARIFICATION.
- THE CONTRACTOR SHALL REVIEW THE PROPOSED GRADING PLAN AND SPOT ELEVATIONS AND REQUEST INFORMATION FROM THE ENGINEER FOR SPOTS OR CONTOURS THAT DO NOT APPEAR TO CORRESPOND WITH OTHER SURROUNDING GRADING. PROPOSED GRADES REFLECT AN INTENT FOR THE SLOPES AND DIRECTION OF DRAINAGE. THE CONTRACTOR SHALL REQUEST DIRECTION FOR GRADING WHERE THE INTENT IS NOT CLEAR.
- THE CONTRACTOR SHALL CONFIRM EXISTING GRADES GENERALLY REFLECT THE SURVEY DATA USED IN PREPARING THESE PLANS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING SITE WORK.
- WHERE BUILDINGS (EXISTING OR PROPOSED) OR OTHER SITE ELEMENTS CLOSELY ADJUT THE RIGHT-OF-WAY OR ACCESSIBLE PATH, THE CONTRACTOR SHALL CONFIRM STREET, CURB, AND SIDEWALK GRADES IN THESE AREAS ARE CONSISTENT WITH THE EXPECTED ELEVATIONS & HORIZONTAL LOCATIONS WITHIN THE PLANS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- WHERE PROPOSED NEW CURB AND SIDEWALK ARE ALONG EXISTING RIGHT-OF-WAY, THE CONTRACTOR SHALL CONFIRM CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS, AND PLACE NEW CURB SUCH THAT PROPER CROSS SLOPES ARE ACHIEVED PER THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PROPOSED DESIGN ELEVATIONS AND FIELD CONDITIONS.
- MAXIMUM CUT AND FILL SLOPES SHALL BE 3 HORIZONTAL TO 1 VERTICAL UNLESS DIRECTLY NOTED OTHERWISE ON THE PLAN. FILL SLOPES SHALL BE CONSTRUCTED BY FILLING BEYOND THE DESIRED GRADES TO OBTAIN COMPACTION AND THEN CUT BACK TO THE DESIRED GRADES. WHERE GRADES ARE 3:1 AND STEEPER CONTRACTOR TO PROVIDE SLOPE STABILIZATION UTILIZING NORTH AMERICAN GREEN, SC-250 OR APPROVED EQUAL. IN AREAS THAT ARE NOTED TO REQUIRE STABILIZATION WHERE SLOPES ARE LESS THAN 3:1 CONTRACTOR TO USE NORTH AMERICAN GREEN SC-150 OR APPROVED EQUAL.
- MINIMUM GRADES SHALL BE 1% IN PAVEMENT AREAS, AND A MINIMUM OF 2% IN LAWN AREAS UNLESS DIRECTLY SPECIFIED IN THE PLANS.
- THE CONTRACTOR SHALL TAKE CARE TO PROPERLY COMPACT FILL WITHIN UTILITY TRENCHES AND AROUND OTHER PROJECT FEATURES TO AVOID SETTLEMENT. SETTLEMENT OCCURRING WITHIN 12 MONTHS OF COMPLETION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- UNLESS SPECIFICALLY NOTED OTHERWISE WITHIN THE PLANS, ALL PROPOSED GRADES SHALL TIE INTO EXISTING GRADES AT THE PROJECT PROPERTY BOUNDARY. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF IT APPEARS THERE IS CONFLICTING FIELD CONDITIONS THAT WOULD NOT ALLOW GRADING AS DESIGNED.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS AFTER FINAL GRADING IS ACHIEVED.

TREE PROTECTION NOTES

- INSTALL TREE PROTECTION PRIOR TO DEMOLITION OR EARTH MOVING OPERATIONS ON SITE IN ACCORDANCE WITH THE DETAILS AND NOTES PROVIDED IN THESE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL STAKE THE LIMITS OF CONSTRUCTION TO ENSURE THE TREE PROTECTION MEASURES ARE INSTALLED IN THE PROPER LOCATIONS.
- THE TREE PROTECTION MEASURES SHALL CONSIST OF 48" TALL CHAIN LINK FENCE WITH STEEL TEE POSTS OR ORANGE CONSTRUCTION BARRICADE FENCE. PRIOR TO CONSTRUCTION OPERATIONS, TREE PROTECTION FENCE INSTALLATION SHALL BE INSPECTED BY THE OWNER'S REPRESENTATIVE AND GOVERNING AUTHORITY IF REQUIRED.
- ANY GRADING OR EXCAVATION WITHIN THE PROTECTED ROOT ZONE SHALL BE ACCOMPLISHED BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE DAMAGE.
- ROOTS EXPOSED DURING CONSTRUCTION OPERATIONS SHALL BE PRUNED FLUSH WITH THE GROUND AND COVERED WITH BACKFILL AS SOON AS POSSIBLE. IF CONSTRUCTION OPERATIONS WILL DELAY THE PLACEMENT OF BACKFILL THE ROOTS SHALL BE TEMPORARILY COVERED WITH MULCH AND WATERED UNTIL BACKFILL OPERATIONS CAN BE ACCOMPLISHED.
- DO NOT STORE EQUIPMENT OR MATERIALS WITHIN THE DRIP LINE OF TREES TO BE PRESERVED.
- WHEN GRADING OR TRENCING OPERATIONS ARE DIRECTED WITHIN THE DRIP LINE OF A TREE TO BE PRESERVED, THE ROOTS SHALL FIRST BE CUT USING A "DITCH WITCH" OR SIMILAR EQUIPMENT TO PROVIDE A CLEAN CUT OF THE ROOTS AT THE LIMIT OF DISTURBANCE PRIOR TO USE OF OTHER GRADING MACHINERY. ONCE THE ROOTS HAVE BEEN CUT AS NOTED ALL EQUIPMENT SHALL BE RESTRICTED FROM ENTERING THE AREA BETWEEN THE CUT LINE AND TREE TRUNK. TRENCHES SHALL BE BACKFILLED AND TAMPED TO MINIMIZE SETTLEMENT.
- BARRICADES SHALL BE INSTALLED WITHIN THE LIMITS OF PROPOSED PAVEMENTS WHEN EXTENDING UNDER THE DRIP LINE OF TREES TO BE PRESERVED UNTIL OPERATIONS TO CONSTRUCT THE PAVED AREAS ARE INITIATED. THEN THE BARRICADES CAN BE RELOCATED TO PROVIDE THE MINIMUM AREA NECESSARY FOR CONSTRUCTION OF THE PROPOSED WORK AND SHALL REMAIN IN PLACE UNTIL ALL WORK IS COMPLETE.
- PROVIDE WATERING OF SPECIMEN TREES DURING CONSTRUCTION DURING PERIODS OF DROUGHT EXCEEDING SEVEN DAYS. EVENLY DISTRIBUTE WATER OVER THE ENTIRE ROOT ZONE.
- ROOT ZONE AREAS OF TREES THAT HAVE BEEN COMPACTED DUE TO CONSTRUCTION ACTIVITIES SHALL BE AERATED AT THE DIRECTION OF A QUALIFIED ARBORIST.
- HOSE DOWN FOLIAGE OF SPECIMEN TREES SUBJECT TO HEAVY ACCUMULATION OF DUST FROM CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE GRASS TO LESS THAN 12" IN HEIGHT WITHIN THE AREAS OF TREE PROTECTION DURING THE CONSTRUCTION PERIOD. DO NOT USE HERBICIDES TO CONTROL VEGETATION WITHIN THE TREE PROTECTION AREA.
- REMOVAL OF TREE PROTECTION FENCING SHALL NOT OCCUR UNTIL APPROVED BY THE GOVERNING AUTHORITY WHERE REQUIRED, OR THE OWNER'S REPRESENTATIVE. ALL REMNANTS OF THE FENCING SHALL BE REMOVED AND RESTORATION OF THE AREAS SHALL BE COMPLETED.

EROSION CONTROL NOTES

- EROSION PREVENTION AND SEDIMENT CONTROL (EPCS) MEASURES SHALL BE INSTALLED PER LOCAL AND STATE REQUIREMENTS PRIOR TO ANY EARTH MOVING ACTIVITIES.
- PROVIDE CONSTRUCTION ENTRANCE/EXIT AS DETAILED ON THE PLANS AND PER LOCAL REQUIREMENTS. MAINTAIN ENTRANCE/EXIT THROUGHOUT CONSTRUCTION AND MAINTAIN THE PUBLIC ROADWAY FREE OF TRACKED MUD AND DIRT. EPCS MEASURES SHALL BE INSTALLED AND INSPECTED BY LOCAL OFFICIALS (IF REQUIRED) PRIOR TO BEGINNING EARTH MOVING OPERATIONS. EPCS MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
- LOCATION OF DIVERSION DITCHES, SILT FENCE, AND OTHER MEASURES MAY BE SLIGHTLY ADJUSTED IN THE FIELD TO AVOID TREES AND OTHER EXISTING FEATURES.
- THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO THE REQUIREMENTS OUTLINED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DEVELOPED FOR THE SITE, AS WELL AS LOCAL AND STATE REQUIREMENTS. THE CONTRACTOR SHALL ALSO PROVIDE THE CERTIFIED EROSION CONTROL INSPECTOR AND CONTINUAL MAINTENANCE OF THE EPCS MEASURES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, THEN ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- AS THE WORK PROGRESSES THE LOCATION AND TYPE OF MEASURES MAY REQUIRE ADJUSTMENTS. TEMPORARY MEASURES MAY BE REQUIRED IN CERTAIN AREAS THAT CAN BE REMOVED DURING THE WORK DAY AND RE-ESTABLISHED WHEN WORK CEASES FOR THE DAY OR PRIOR TO A DAYTIME RAIN EVENT.
- SEDIMENT SHALL BE REMOVED FROM EROSION PREVENTION AND SEDIMENT CONTROL MEASURES WHEN THE DESIGN CAPACITIES HAVE BEEN REDUCED BY 50% OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE OR GOVERNING AGENCY. PROPERLY DISPOSE OF ACCUMULATED SEDIMENT.
- THE CONTRACTOR SHALL PROVIDE A RAIN GAUGE AT THE SITE AND DOCUMENT RAINFALL EVENTS DURING THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL MAINTAIN THE FOLLOWING RECORDS AT THE SITE: DATE WHEN MAJOR GRADING ACTIVITIES OCCUR, THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON PORTIONS OF THE SITE, THE DATES WHEN STABILIZATION MEASURES ARE INITIATED, INSPECTION RECORDS, AND RAINFALL EVENTS.
- EXISTING SITE VEGETATION SHALL REMAIN IN PLACE AS LONG AS POSSIBLE AND SHALL NOT BE REMOVED MORE THAN 10 DAYS PRIOR TO THE DATE AT WHICH EARTH MOVING OPERATIONS ARE TO BEGIN UNLESS TEMPORARY COVER IS INSTALLED. DO NOT REMOVE VEGETATION OR TREES UNLESS NECESSARY FOR GRADING OR OTHER PROJECT PURPOSES.
- THE CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE LENGTH OF TIME THE SITE SOILS ARE EXPOSED TO EROSION. PROVIDE TEMPORARY COVER AS NECESSARY.
- EPCS MEASURES SHALL BE REMOVED ONCE PERMANENT VEGETATION IS ESTABLISHED AND WHEN DEEMED NO LONGER NEEDED BY THE OWNER'S REPRESENTATIVE OR GOVERNING AGENCY.

AS-BUILT REQUIREMENTS

- THE CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED SURVEYOR IN THE STATE OF MO TO PROVIDE AS-BUILT SURVEY DATA FOR PUBLIC UTILITIES AND PUBLIC/PRIVATE STORMWATER MANAGEMENT INFRASTRUCTURE.
- AS-BUILT SURVEYS SHOULD AT A MINIMUM PROVIDE THE FOLLOWING ITEMS:
 - SPOT ELEVATIONS OF THE EXCAVATED BIORETENTION AND/OR PERMEABLE PAVEMENT SUBGRADE PRIOR TO BACKFILLING WITH THE SPECIALTY SOIL AND GRAVEL LAYERS.
 - SPOT ELEVATIONS OF SUBGRADE FOR UNDERGROUND DETENTION SYSTEMS.
 - SPOT ELEVATIONS AND CONTOUR ELEVATIONS NOT TO EXCEED 1" MAX. INTERVAL FOR ALL PERMANENT STORMWATER QUALITY AREAS, DETENTION PONDS, AND ASSOCIATED EMBANKMENTS TO ENSURE PROPER SIZING OF THESE FEATURES.
 - SIZE, MATERIAL, ELEVATION INFORMATION FOR ALL STORMWATER PIPES AND STRUCTURES WITHIN THE PUBLIC RIGHT OF WAY.
 - SIZE, MATERIAL, ELEVATION INFORMATION FOR ALL PRIVATE STORMWATER QUALITY FEATURES, DETENTION STRUCTURES AND INFRASTRUCTURE DOWNSTREAM OF THESE FEATURES.
 - DETAILED INFORMATION FOR ALL OUTLET CONTROL STRUCTURES, WITHIN DETENTION PONDS WATER, QUALITY FEATURES, OR UNDERGROUND DETENTION SYSTEMS, INCLUDING ELEVATION AND SIZE INFORMATION FOR ORIFICES, PERFORATED RISERS, WEIRS, TOP OF CASTING, AND INVERTS ASSOCIATED WITH THE STRUCTURE.
 - ALL OTHER AS-BUILT INFORMATION REQUIRED BY THE JURISDICTIONAL AUTHORITY OR NOTED ELSEWHERE IN THE PLANS.
- THE CONTRACTOR SHALL REVIEW LOCAL AUTHORITY'S AS-BUILT REQUIREMENTS AND/OR CONTACT ENGINEER TO CONFIRM AS-BUILT INFORMATION. PHOTOGRAPHIC EVIDENCE OF PROPER INSTALLATION OF STORMWATER MANAGEMENT AND WATER QUALITY INFRASTRUCTURE AND/OR VISUAL INSPECTIONS OF STORMWATER PIPES MAY BE REQUIRED. THE CONTRACTOR SHALL CAPTURE AND RETAIN PHOTOGRAPHIC DOCUMENTATION OF KEY INSTALLATION MILESTONES AS NEEDED. FAILURE TO PROVIDE NECESSARY PHOTOGRAPHIC DOCUMENTATION PRIOR TO BACKFILLING MAY CAUSE DELAYS AND MAY REQUIRE SITE INVESTIGATION THAT COULD INCLUDE RE-EXCAVATION OF COMPLETED INFRASTRUCTURE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO RETAIN AND PROVIDE RECEIPTS FOR ANY FABRICATED STORMWATER MANAGEMENT INFRASTRUCTURE SUCH AS PROPRIETARY WATER QUALITY UNITS, UNDERGROUND DETENTION STRUCTURES, PERMEABLE PAVERS, OR SPECIALTY SOIL MEDIA (WITH APPLICABLE TESTING IF REQUIRED).

PROJECT NOTES

- SUBJECT PROPERTY SHOWN ON TAX MAP 60, AS PARCEL 64-02-99-15-00-0-00-000 OF THE JACKSON COUNTY COUNTY, MO, TAX MAPS.
- SITE EXISTING CONDITIONS ARE TAKEN FROM SURVEY BY LOVELAKE & ASSOCIATES, LLC DATED 05/01/2024. CATALYST DESIGN GROUP SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF OR OMISSIONS FROM THE EXISTING CONDITIONS OR ERRORS RESULTING THEREFROM.
- CATALYST DESIGN GROUP RECOMMENDS THAT CONSTRUCTION STAKING BE PROVIDED BY A SURVEYOR LICENSED IN THE STATE OF THE PROJECT.
- THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS PRIOR TO CONSTRUCTION AND MAKE THE ENGINEER AWARE OF ANY INCONSISTENCIES BETWEEN THE SITE CONDITIONS AND EXISTING CONDITIONS PLAN.
- DIMENSIONS PROVIDED ON THE PLAN ARE TAKEN TO THE FACE OF CURBS, EDGE OF CONCRETE OR EDGE OF BUILDING, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS PRIOR TO INITIATING CONSTRUCTION. THE CONTRACTOR SHALL ADHERE TO PERMIT REQUIREMENTS AS WORK PROCEEDS.
- SITE CONTROL SHALL BE BASED OFF THE REFERENCE POINTS PROVIDED. SEE THE ARCHITECTURAL PLANS FOR LAUNCH CONTROL OF BUILDING ADDITIONS.
- THE CONTRACTOR SHALL SUBMIT A REQUEST FOR UTILITY LOCATION (CALL 811) AND HAVE THE UTILITIES MARKED BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL BE FAMILIAR WITH THE UTILITY LOCATIONS, PROTECT UTILITIES WHICH REMAIN IN SERVICE, AND REPAIR ANY DAMAGE TO UTILITY SYSTEMS PER THE UTILITY PROVIDER REQUIREMENTS.
- THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO PUBLIC ROADWAYS, CURBS AND SIDEWALKS IN ACCORDANCE WITH THE LOCAL REQUIREMENTS AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL REPAIR OR REPLACE ANY WORK UNACCEPTABLE TO THE OWNER'S REPRESENTATIVE OR GOVERNING AGENCIES AT CONTRACTOR'S EXPENSE.
- IN EASEMENTS AND RIGHTS-OF-WAY, CONTRACTOR SHALL PROTECT AND RESTORE SAID PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING AT THE COMMENCEMENT OF CONSTRUCTION EXCEPT AS NOTED.
- ON SITE ASPHALT PAVEMENT MATERIALS SHALL BE PER LOCAL AUTHORITY SPECIFICATIONS, STATE SPECIFICATIONS, AND GEOLOGICAL REPORT RECOMMENDATIONS.
- THE CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS AND PRECAUTIONS.
- UNLESS OTHERWISE NOTED, SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS FOR REVIEW. DESIGN DRAWINGS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS. THE ENGINEER'S REVIEW OF SHOP DRAWINGS, PROJECT DATA, ETC., DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH LOCAL/STATE SPECIFICATIONS. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY SPECIFIC DEVIATIONS AND OBTAIN ENGINEER'S WRITTEN APPROVAL OF THE DEVIATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES AND/OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF MO, WHOSE SERVICES ARE ENGAGED AND PAID FOR BY THE CONTRACTOR.
- ALL SPECIFICATIONS, DOCUMENTS, AND DETAILS REFERENCED SHALL BE THE LATEST REVISION AS APPLICABLE AT THE TIME OF PERMIT APPROVAL.
- CONTRACTOR SHALL REPAIR ALL OFF-SITE CONSTRUCTION AREAS TO EQUAL AND/OR BETTER CONDITION THAN AT THE START OF CONSTRUCTION.

DEMOLITION NOTES

- THE CONTRACTOR SHALL REQUEST UTILITY LOCATIONS (811) AND VERIFY LOCATIONS OF ALL OTHER PRIVATE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE AND REPAIR IF DAMAGED PER PROVIDER REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL WORK AROUND EXISTING UTILITIES WITH CORRESPONDING PROVIDER.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCOMPLISH THE PROPOSED WORK.
- THE CONTRACTOR SHALL PROTECT PROPERTY BOUNDARY PINS AND SURVEY CONTROL POINTS FROM DAMAGE.
- THE CONTRACTOR SHALL COMPLY WITH EROSION PREVENTION AND SEDIMENT CONTROL REQUIREMENTS AND INSTALL NECESSARY EPCS MEASURES AND CONSTRUCTION ENTRANCE/EXIT PRIOR TO DISTURBING EXISTING VEGETATION. THE CONTRACTOR SHALL ALSO AVOID WATER SPRINKLING OR OTHER MEASURES TO CONTROL DUST AND OTHER AIRBORNE DEBRIS RESULTING FROM DEMOLITION.
- TREE PROTECTION MEASURES SPECIFIED IN THESE PLANS SHALL BE INSTALLED PRIOR TO BEGINNING DEMOLITION OPERATIONS.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR DEMOLITION AND TREE REMOVAL.
- CONTRACTOR MAY BE REQUIRED TO PHASE THE DEMOLITION TO MAINTAIN EXISTING UTILITY SERVICES, PROPER DRAINAGE OR ACCESS TO THE SITE OR ADJOINING SITES. THE CONTRACTOR SHALL MINIMIZE THE DISRUPTION OF EXISTING ACTIVE UTILITIES AND TRAFFIC PATTERNS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE AND PROVIDE A DEMOLITION PHASING SCHEDULE WHERE REQUESTED.
- UTILITY AND STORM SEWER LINES SHOULD NOT BE DEMOLISHED UNTIL NEW OR RELOCATED LINES HAVE BEEN INSTALLED AND ARE OPERATIONAL.
- THE CONTRACTOR SHALL INCLUDE IN THEIR COST ANY ISOLATION VALVES OR TEMPORARY MEASURES REQUIRED TO ACCOMPLISH RELOCATIONS AND DETENTION UTILITIES.
- PAVEMENTS, SIDEWALKS, CURBS AND OTHER HARD SURFACES SHALL BE EVENLY SAW CUT AT THE LIMITS OF REMOVAL TO PROVIDE A CLEAN EDGE. COORDINATE LIMITS OF REMOVAL WITH PROPOSED CONSTRUCTION INCLUDING GRADING, UTILITY INSTALLATION, PROPOSED LAYOUT, ETC.
- EXISTING SITE FEATURES NOTED AS BEING ABANDONED MAY BE ABANDONED IN PLACE IF THE ITEMS ARE LOCATED MORE THAN 24" BELOW FINAL SUBGRADES (TO TOP OF PIPE OR OTHER FEATURE) AND NOT LOCATED WITHIN PROPOSED BUILDING FOOTPRINTS. ITEMS OF PIPE ABANDONED SHALL BE SEALED WITH CONCRETE.
- ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S COST UNLESS NOTED TO BE PROVIDED TO THE OWNER.
- CAVITIES LEFT BY DEMOLITION SHALL BE PROPERLY BACKFILLED AND COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
- WHERE EXISTING IRRIGATION LINES ARE LOCATED WITHIN THE AREA OF CONSTRUCTION, THEY SHALL BE PROTECTED OR RE-ROUTED AND CONNECTED TO MAINTAIN OPERATION OF LANDSCAPE AREAS WHICH REMAIN DURING CONSTRUCTION. COORDINATE TEMPORARY MEASURES WITH DESIGN OF NEW SYSTEM AND REMOVE TEMPORARY MEASURES WHEN NO LONGER NEEDED.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MEANS AND METHODS FOR ALL ON-SITE AND OFF-SITE DENATURING REQUIREMENTS AND PERMIT THROUGH THE NECESSARY LOCAL AND STATE AGENCIES AS NEEDED.
- IF AN EXISTING WELL IS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, CONTRACTOR TO INFORM ENGINEER AND ABANDON/REMOVE ANY EXISTING WELLS PER LOCAL/STATE STANDARDS AND SPECIFICATIONS.

ADA ACCESSIBILITY NOTES

- CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY ARE TO BE CONSTRUCTED BASED ON LOCAL AUTHORITY'S STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS. WHERE THERE ARE NO LOCAL STANDARDS, THE CONTRACTOR SHALL CONSTRUCT CURB RAMPS ACCORDING TO THE CURRENT VERSION OF THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG), PUBLISHED BY THE UNITED STATES ACCESS BOARD.
- PRIVATE CURB RAMPS ON THE SITE OUTSIDE OF THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS AND/OR FAIR HOUSING ACT (FHA), WHERE APPLICABLE.
- BEFORE PLACING PAVEMENT OR SIDEWALKS, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM ACCESSIBLE DOORS, ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. MAXIMUM GRADES WITHIN ACCESSIBLE PARKING AND ACCESS AISLES SHALL BE 2% IN ANY DIRECTION. WITHIN ACCESSIBLE PATHS MAXIMUM SLOPES FOR SIDEWALKS SHALL BE LONGITUDINALLY MAXIMUM 5%, FOR RAMPS SHALL BE LONGITUDINALLY MAXIMUM 8.33% (1:12), AND CROSS SLOPES SHALL BE MAXIMUM 2%. TURNING MOVEMENTS SHALL BE 5% MAXIMUM 2% IN ANY DIRECTION.
- CURB RAMPS SHALL HAVE A LANDING AT THE TOP MATCHING THE WIDTH OF THE RAMP AND A MINIMUM DEPTH OF 48". RAMPS SHALL HAVE A 3' x 3' LANDING AT THE TOP AND BOTTOM OF THE RAMP. ALL CURB/ACCESSIBLE RAMP DESIGNS SHALL CONFORM TO ACCESSIBLE STANDARDS OR LOCAL BUILDING CODE STANDARDS, WHICHEVER IS MORE RESTRICTIVE.
- CONTRACTOR TO FIELD VERIFY SLOPE MEASUREMENTS ON FINISHED GRADE, SUBGRADE, AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY CONFORMANCE TO ADA SLOPES. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAYING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CHANGE ORDERS WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.
- WHERE CONSTRUCTION IS TAKING PLACE WITHIN AN EXISTING DEVELOPMENT OR FACILITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AN ACCESSIBLE PATH PER ADA STANDARD



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IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER, THEY ARE TO BE CONSIDERED PRELIMINARY AND ARE NOT TO BE USED FOR CONSTRUCTION OR RECORDING. THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SECTION 17 OF THE COPYRIGHT ACT OF 1976 AND UNDER SECTION 17 AND 18 OF THE COPYRIGHT ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP, LTD.

SITE & BRIDGE EARLY RELEASE PACKAGE

HCA - LEE'S SUMMIT MEDICAL CENTER
 2100 SE BLUE PKWY
 LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
 CITY OF LEE'S SUMMIT BUILDING DEPT.
 MISSOURI DHSS

FACILITY NUMBER:
 097240009

AGENCY APPROVALS:
 AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 2024/09/19
 SCALE: 1:50
 DRAWN: AP
 REVIEWED: WB
 JOB NUMBER: 6406.24

INITIAL EROSION CONTROL PLAN

DP-C3.0

EROSION CONTROL KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
EC1	TEMPORARY CONSTRUCTION ENTRANCE	1 / DP-C3.2
EC2	SILT FENCE	3 / DP-C3.2
EC3	INLET PROTECTION	4 / DP-C3.2
EC4	TREE PROTECTION	2 / DP-C3.2
EC7	RIPRAP OUTLET PROTECTION	2 / DP-C3.3
EC8	EROSION EEL	1 / DP-C3.3
EC8	TURF REINFORCEMENT MATTING	4 / DP-C3.3
EC10	CONCRETE WASH-OUT	3 / DP-C3.3

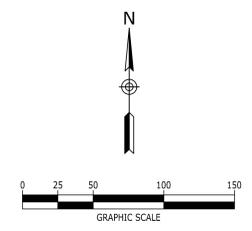
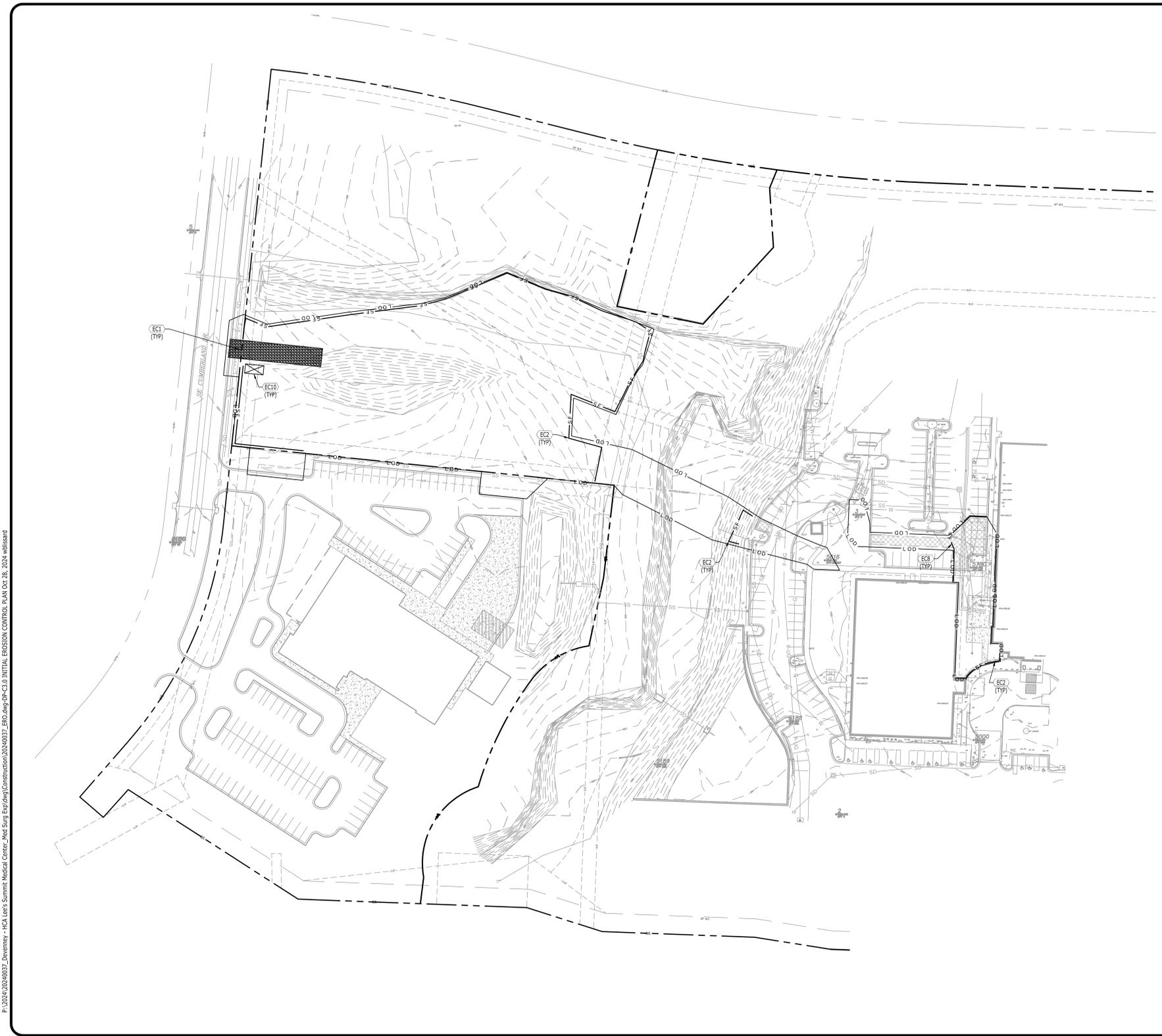
SITE DESCRIPTION AND NOTES:

THE SITE IS LOCATED ON TAX MAP 60, PARCEL 60-420-99-15-00-0-00-000 IN LEE'S SUMMIT, JACKSON COUNTY, MO. CONSTRUCTION ACTIVITY ON THIS SITE WILL CONSIST OF DISTURBING APPROXIMATELY 2.00+ ACRES TO CONSTRUCT A REMOTE PARKING, PEDESTRIAN BRIDGE, AND DIETARY EXPANSION.

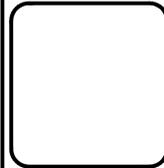
- APPROXIMATE CONSTRUCTION TIME TABLE:
 BEGIN CONSTRUCTION - FEB 2025
 COMPLETE CONSTRUCTION - MAY 2026
- CONSTRUCTION SEQUENCE:
 - ATTEND WATER QUALITY DIVISION PRE-CONSTRUCTION MEETING.
 - INSTALL CONSTRUCTION ENTRANCE AND SILT FENCE
 - CONTACT WATER QUALITY DIVISION - EROSION CONTROL INSPECTOR FOR INSPECTION OF EROSION CONTROL DEVICES TO OBTAIN GRADING PERMIT.
 - CLEAR AND GRUB THE REMAINING SITE.
 - CONSTRUCT REMAINING SITE ACCORDING TO APPROVED PLANS, INCLUDING ALL ADDITIONAL EROSION CONTROL DEVICES.
 - UPON PERMANENT SITE STABILIZATION SEED AND STRAW.
 - REMOVE ALL OTHER EROSION TEMPORARY CONTROL DEVICES PRIOR TO AS-BUILT APPROVALS.
- TOTAL PROJECT AREA = 1,066,349 SF (24.48+ AC.)
 DISTURBED AREA = 87,394 S.F. (2.00+ AC.)

EROSION CONTROL NOTES:

- EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATION BEGINS AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REPLACED AT THE END OF THE WORKDAY.
- THE FOLLOWING RECORDS SHALL BE MAINTAINED ON OR NEAR SITE: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; THE DATES WHEN STABILIZATION MEASURES ARE INITIATED; INSPECTION RECORDS AND RAINFALL RECORDS.
- THE CONTRACTOR SHALL MAINTAIN A RAIN GAUGE AND DAILY RAINFALL RECORDS AT THE SITE OR USE A REFERENCE SITE FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION.
- PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 10 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDING AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
- CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
- SEDIMENT SHOULD BE REMOVED FROM SEDIMENT TRAPS, SILT FENCES, SEDIMENTATION PONDS AND OTHER SEDIMENT CONTROLS AS NECESSARY AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50% OR AS DIRECTED BY OWNERS REPRESENTATIVE.
- THE CONTRACTOR SHALL REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES ONLY AFTER A SOLID STAND OF GRASS HAS BEEN ESTABLISHED ON GRADED AREAS AND WHEN IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEY ARE NO LONGER NEEDED.
- DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF THE COMPLETION OF GRADING ACTIVITIES. SLOPES 3:1 OR STEEPER SHALL BE STABILIZED WITHIN 7 DAYS.



LEE'S SUMMIT MEDICAL CENTER
 2100 SE BLUE PARKWAY
 LEE'S SUMMIT, MO 64063
 816-282-5000



FINAL DEVELOPMENT PLAN
 HCA LEE'S SUMMIT MEDICAL CENTER
 2000 SE SHENANDOAH DRIVE
 LEE'S SUMMIT, MO, 64063
 JACKSON COUNTY

NO.	DATE	DESCRIPTION

DRAWING TITLE
INITIAL EROSION CONTROL PLAN

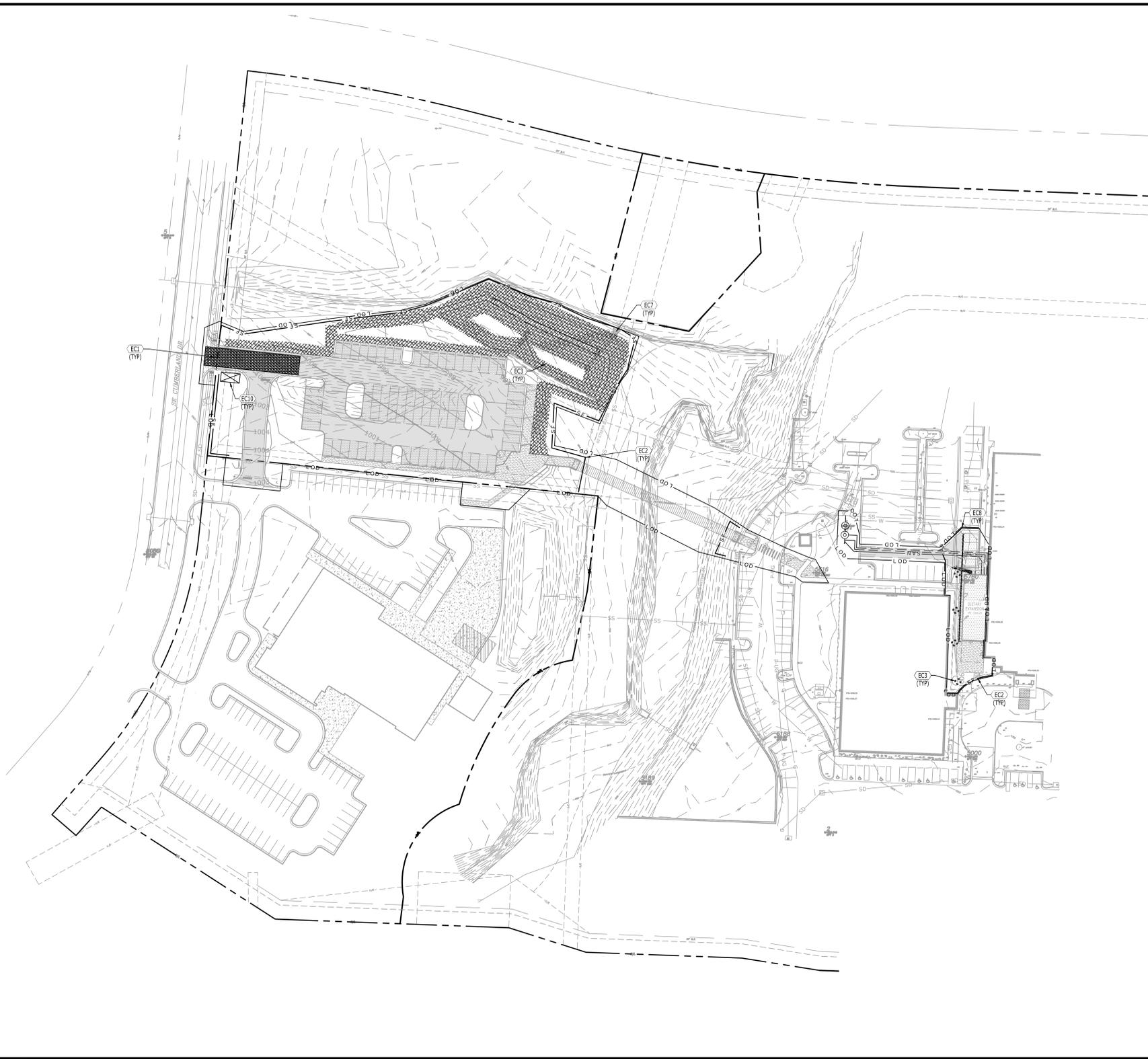
PROJECT NUMBER
 20240037

DRAWING NUMBER
DP-C3.0

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EROSION CONTROL KEYNOTES		
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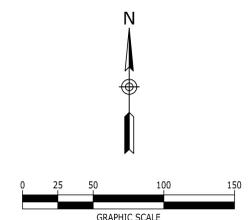
SITE DESCRIPTION AND NOTES:

THE SITE IS LOCATED ON TAX MAP 60, PARCEL 60-420-99-15-00-0-00-600 IN LEE'S SUMMIT, JACKSON COUNTY, MO. CONSTRUCTION ACTIVITY ON THIS SITE WILL CONSIST OF DISTURBING APPROXIMATELY 2.00+ ACRES TO CONSTRUCT A REMOTE PARKING, PEDESTRIAN BRIDGE, AND DIETARY EXPANSION.

- APPROXIMATE CONSTRUCTION TIME TABLE:
 BEGIN CONSTRUCTION - FEB 2025
 COMPLETE CONSTRUCTION - MAY 2026
- CONSTRUCTION SEQUENCE:
 A. ATTEND WATER QUALITY DIVISION PRE-CONSTRUCTION MEETING.
 B. INSTALL CONSTRUCTION ENTRANCE AND SILT FENCE
 C. CONTACT WATER QUALITY DIVISION - EROSION CONTROL INSPECTOR FOR INSPECTION OF EROSION CONTROL DEVICES TO OBTAIN GRADING PERMIT.
 D. CLEAR AND GRUB THE REMAINING SITE.
 E. CONSTRUCT REMAINING SITE ACCORDING TO APPROVED PLANS, INCLUDING ALL ADDITIONAL EROSION CONTROL DEVICES.
 F. UPON PERMANENT SITE STABILIZATION SEED AND STRAW.
 G. REMOVE ALL OTHER EROSION TEMPORARY CONTROL DEVICES PRIOR TO AS-BUILT APPROVALS.
- TOTAL PROJECT AREA = 1,066,349 SF (24.48+ AC.)
 DISTURBED AREA = 87,394 S.F. (2.00+ AC.)

EROSION CONTROL NOTES:

- EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATION BEGINS AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REPLACED AT THE END OF THE WORKDAY.
- THE FOLLOWING RECORDS SHALL BE MAINTAINED ON OR NEAR SITE: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; THE DATES WHEN STABILIZATION MEASURES ARE INITIATED; INSPECTION RECORDS AND RAINFALL RECORDS.
- THE CONTRACTOR SHALL MAINTAIN A RAIN GAUGE AND DAILY RAINFALL RECORDS AT THE SITE OR USE A REFERENCE SITE FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION.
- PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 10 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
- CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
- SEDIMENT SHOULD BE REMOVED FROM SEDIMENT TRAPS, SILT FENCES, SEDIMENTATION PONDS AND OTHER SEDIMENT CONTROLS AS NECESSARY AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50% OR AS DIRECTED BY OWNERS REPRESENTATIVE.
- THE CONTRACTOR SHALL REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES ONLY AFTER A SOLID STAND OF GRASS HAS BEEN ESTABLISHED ON GRADED AREAS AND WHEN IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEY ARE NO LONGER NEEDED.
- DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF THE COMPLETION OF GRADING ACTIVITIES. SLOPES 3:1 OR STEEPER SHALL BE STABILIZED WITHIN 7 DAYS.



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FINAL DEVELOPMENT PLAN
HCA LEE'S SUMMIT MEDICAL CENTER
 2000 SE SHENANDOAH DRIVE
 LEE'S SUMMIT, MO, 64063
 JACKSON COUNTY

NO.	DATE	DESCRIPTION

DRAWING TITLE
FINAL EROSION CONTROL PLAN

PROJECT NUMBER
 20240037

DRAWING NUMBER
DP-C3.1

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AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT. MISSOURI DHSS

FACILITY NUMBER:
 097240009

AGENCY APPROVALS:
 AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 2024/09/19
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 DRAWN: AP
 REVIEWED: WB
 JOB NUMBER: 6406.24

FINAL EROSION CONTROL PLAN

DP-C3.1

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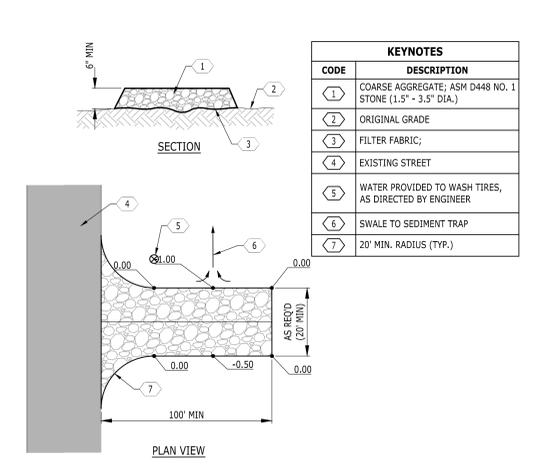
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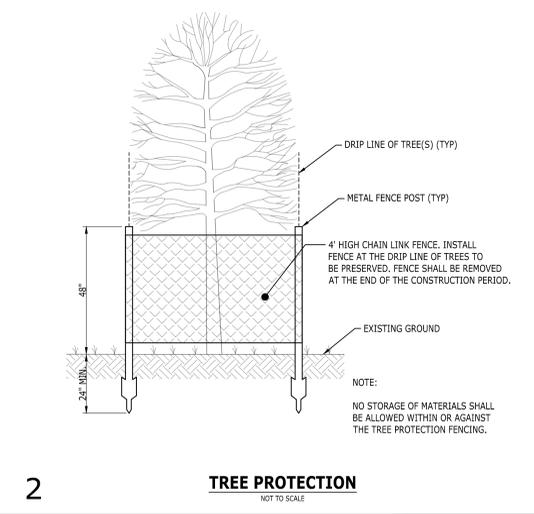
DRAWING TITLE
SEDIMENT AND EROSION CONTROL DETAILS

PROJECT NUMBER
 20240037

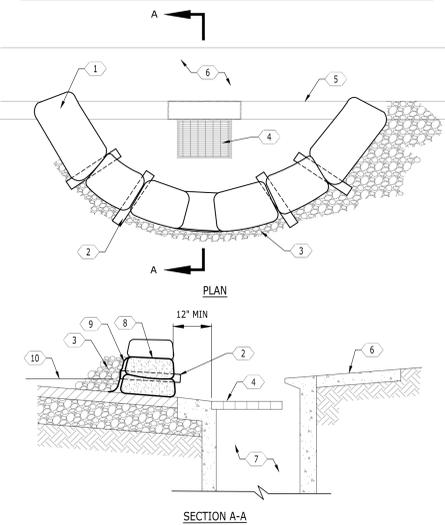
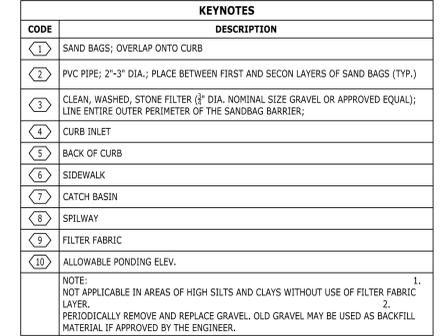
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DP-C3.2



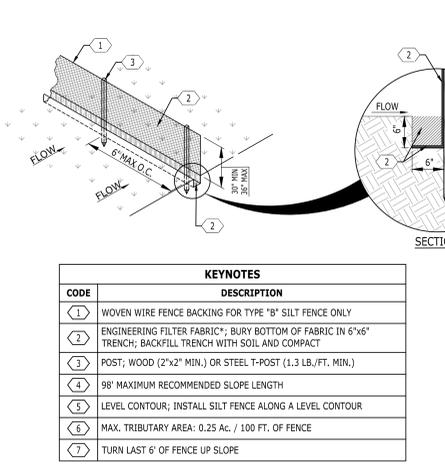
1 TEMPORARY CONSTRUCTION ENTRANCE
 NOT TO SCALE



2 TREE PROTECTION
 NOT TO SCALE



4 SAND BAG CURB INLET PROTECTION



3 SILT FENCE - TYPES A & B
 NOT TO SCALE

SPECIFICATIONS			
Tensile Strength (Lbs. Min.) (1) (ASTM D-4632)	Warp-120 Fill -100	Warp-120 Fill -100	
Elongation (%Max.) (ASTM D-4632)	40	40	
AOS (Apparent Opening Size) (Max. Sieve Size) (ASTM D-4751)	# 30	# 30	
Flow Rate (Gal/Min/Sq. Ft.) (GDT-87)	25	25	
Ultraiolet Stability (2) (ASTM D-4632 after 300 hours weathering in accordance with ASTM D-4355)	80	80	
Bursting Strength (PSI Min.) (ASTM D-3786 Diaphragm Bursting Strength Tester)	175	175	
Minimum Fabric Width (Inches)	36	22	

SCHEDULE OF INSPECTIONS AND MAINTENANCE NOTES

- INSPECTIONS DESCRIBED IN PARAGRAPHS 2, 3 AND 4 BELOW, SHALL BE PERFORMED AT LEAST TWICE EVERY CALENDAR WEEK. INSPECTIONS SHALL BE PERFORMED AT LEAST 72 HOURS APART. WHERE SITES OR PORTION(S) OF CONSTRUCTION SITES HAVE BEEN TEMPORARILY STABILIZED, OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (E.G., SITE COVERED WITH SNOW OR ICE) OR DUE TO EXTREME DROUGHT, SUCH INSPECTION ONLY HAS TO BE CONDUCTED ONCE PER MONTH UNTIL THAWING OR PRECIPITATION RESULTS IN RUNOFF OR CONSTRUCTION ACTIVITY RESUMES. INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS THAT HAVE BEEN FINALLY STABILIZED. WRITTEN NOTIFICATION OF THE INTENT TO CHANGE THE INSPECTION FREQUENCY AND THE JUSTIFICATION FOR SUCH REQUEST MUST BE SUBMITTED TO THE LOCAL ENVIRONMENTAL FIELD OFFICE. SHOULD TDEC DISCOVER THAT MONTHLY INSPECTIONS OF THE SITE ARE NOT APPROPRIATE DUE TO INSUFFICIENT STABILIZATION MEASURES OR OTHERWISE, TWICE WEEKLY INSPECTIONS SHALL RESUME. MODNR MAY INSPECT THE SITE TO CONFIRM OR DENY THE NOTIFICATION TO CONDUCT MONTHLY INSPECTIONS.
- QUALIFIED PERSONNEL (PROVIDED BY THE PERMITTEE OR COOPERATIVELY BY MULTIPLE PERMITTEES) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL.
- DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE SITE'S DRAINAGE SYSTEM. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY.
- OUTFALL POINTS (WHERE DISCHARGES LEAVE THE SITE AND/OR ENTER WATERS OF THE STATE) SHALL BE INSPECTED TO DETERMINE WHETHER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKINGS.
- BASED ON THE RESULTS OF THE INSPECTION, ANY INADEQUATE CONTROL MEASURES OR CONTROL MEASURES IN DISREPAIR SHALL BE REPLACED OR MODIFIED, OR REPAIRED AS NECESSARY, BEFORE THE NEXT RAIN EVENT, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE NEED IS IDENTIFIED.
- BASED ON THE RESULTS OF THE INSPECTION, THE SITE DESCRIPTION AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THIS SWPPP SHALL BE REVISED AS APPROPRIATE, BUT IN NO CASE LATER THAN 7 DAYS FOLLOWING THE INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE SWPPP, BUT IN NO CASE LATER THAN 14 DAYS FOLLOWING THE INSPECTION.
- ALL INSPECTIONS SHALL BE DOCUMENTED ON THE CONSTRUCTION STORMWATER INSPECTION CERTIFICATION FORM PROVIDED IN APPENDIX D OF THE SWPPP REPORT FOR ALL CONSTRUCTION SITES. INSPECTION DOCUMENTATION WILL BE MAINTAINED ON SITE AND MADE AVAILABLE TO TDEC UPON REQUEST. INSPECTION REPORTS MUST BE SUBMITTED TO TDEC WITHIN 30 DAYS OF THE REQUEST. IF MODNR REQUESTS THE CONSTRUCTION STORMWATER INSPECTION CERTIFICATION FORM TO BE SUBMITTED, THE SUBMITTED FORM MUST CONTAIN THE PRINTED NAME AND SIGNATURE OF THE TRAINED CERTIFIED INSPECTOR AND THE PERSON WHO MEETS THE SIGNATORY REQUIREMENTS OF SECTION 7.7.2 OF THE NPDES GENERAL PERMIT.
- TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION DOCUMENTATION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES.
- SUBSEQUENT OPERATOR(S) (PRIMARY PERMITTEES) WHO HAVE OBTAINED COVERAGE UNDER THE NPDES GENERAL PERMIT SHOULD CONDUCT TWICE WEEKLY INSPECTIONS, UNLESS THEIR PORTION(S) OF THE SITE HAS BEEN TEMPORARILY STABILIZED, OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS OR DUE TO EXTREME DROUGHT AS STATED IN PARAGRAPH A) ABOVE. THE PRIMARY PERMITTEE (SUCH AS A DEVELOPER) IS NO LONGER REQUIRED TO CONDUCT INSPECTIONS OF PORTIONS OF THE SITE THAT ARE COVERED BY A SUBSEQUENT PRIMARY PERMITTEE (SUCH AS A HOME BUILDER).

SITE ASSESSMENT NOTES

- THE SITE ASSESSMENT SHALL BE PERFORMED BY INDIVIDUALS WITH THE FOLLOWING QUALIFICATIONS:
 - A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
 - A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC) OR
 - A PERSON THAT SUCCESSFULLY COMPLETED THE "LEVEL II DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE.
- QUALITY ASSURANCE OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE DONE BY PERFORMING SITE ASSESSMENT AT A CONSTRUCTION SITE. THE SITE ASSESSMENT SHALL BE CONDUCTED AT EACH OUTFALL INVOLVING DRAINAGE TOTALING 10 OR MORE ACRES OR 5 OR MORE ACRES IF DRAINING TO AN IMPAIRED OR EXCEPTIONAL QUALITY WATERS, WITHIN A MONTH OF CONSTRUCTION COMMENCING AT EACH PORTION OF THE SITE THAT DRAINS THE QUALIFYING ACREAGE OF SUCH PORTION OF THE SITE.
- AS A MINIMUM, SITE ASSESSMENT SHOULD BE PERFORMED TO VERIFY THE INSTALLATION, FUNCTIONALITY AND PERFORMANCE OF THE EPSC MEASURES DESCRIBED IN THE SWPPP REPORT. THE SITE ASSESSMENT SHOULD BE PERFORMED WITH THE INSPECTOR, AND SHOULD INCLUDE A REVIEW AND UPDATE (IF APPLICABLE) OF THE SWPPP REPORT. MODIFICATIONS OF PLANS AND SPECIFICATIONS FOR ANY BUILDING OR STRUCTURE, INCLUDING THE DESIGN OF SEDIMENT BASINS OR OTHER SEDIMENT CONTROLS INVOLVING STRUCTURAL, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT AND STAMPED AND CERTIFIED IN ACCORDANCE WITH THE TENNESSEE CODE ANNOTATED, TITLE 62, CHAPTER 2 AND THE RULES OF THE TENNESSEE BOARD OF ARCHITECTURAL AND ENGINEERING EXAMINERS.
- THE SITE ASSESSMENT FINDINGS SHALL BE DOCUMENTED AND THE DOCUMENTATION KEPT WITH THE SWPPP REPORT AT THE SITE. AT A MINIMUM, THE DOCUMENTATION SHALL INCLUDE INFORMATION INCLUDED IN THE INSPECTION FORM PROVIDED IN APPENDIX D OF THE SWPPP REPORT. THE DOCUMENTATION MUST CONTAIN THE PRINTED NAME AND SIGNATURE OF THE INDIVIDUAL PERFORMING THE SITE ASSESSMENT AND THE FOLLOWING CERTIFICATION:
 "I CERTIFY UNDER PENALTY OF LAW THAT THIS REPORT AND ALL ATTACHMENTS ARE, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."
- THE SITE ASSESSMENT CAN TAKE THE PLACE OF ONE OF THE TWICE WEEKLY INSPECTIONS REQUIREMENT.
- MODNR MAY REQUIRE ADDITIONAL SITE ASSESSMENT(S) TO BE PERFORMED IF SITE INSPECTION BY MODNR'S PERSONNEL REVEALS SITE CONDITIONS THAT HAVE POTENTIAL OF CAUSING POLLUTION TO THE WATERS OF THE STATE.

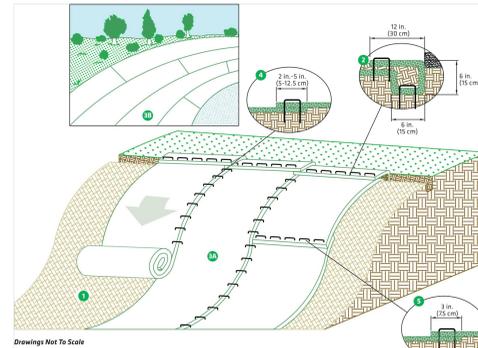
NOTE:

CONTRACTOR SHALL INSTALL A 4'X4' WEATHER PROOF SIGN (6' HEIGHT) AT THE MAIN CONSTRUCTION ENTRANCE. THE SIGN SHALL HAVE THE FOLLOWING INFORMATION:

- A COPY OF THE NOTICE OF COVERAGE WITH THE NPDES PERMIT NUMBER (FURNISHED BY ENGINEER).
- THE NAME AND TELEPHONE NUMBER OF A LOCAL CONTACT PERSON (FURNISHED BY CONSTRUCTION MANAGER).
- DESCRIPTION OF PROJECT (FURNISHED BY CONSTRUCTION MANAGER).

Slope Installation

The following slope guide outlines general recommendations for installing RollMax™ System temporary and/or permanent RECPS on sloping applications. Consult the staple pattern guide (Figure 1) for fastener spacing recommendations based on the slope severity.



SLOPE INSTALLATION STEPS

1. Prepare soil before installing RECPS, including any necessary application of lime, fertilizer and seed.
 2. Begin at the top of the slope by anchoring the RECPS in a 4 in. (10 cm) deep x 6 in. (15 cm) wide trench with approximately 12 in. (30 cm) of RECPS extended beyond the upslope portion of the trench. Anchor the RECPS with a row of staples/stakes approximately 12 in. (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12 in. (30 cm) portion of RECPS back over the seed and compacted soil. Secure RECPS over compacted soil with a row of staples/stakes spaced approximately 12 in. (30 cm) apart across the width of the RECPS.
 3. Roll the RECPS (3A) down or (3B) horizontally across the slope. RECPS will unroll with appropriate side against the soil surface. All RECPS must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
 4. The edges of parallel RECPS must be stapled with an approximately 2 in. - 5 in. (5-12.5 cm) overlap depending on the RECPS type.
 5. Consecutive RECPS spliced down the slope must be end-over-end (shingle style) with an approximate 3 in. (7.5 cm) overlap. Staple through overlapped area, approximately 12 in. (30 cm) apart across entire RECPS width.
- NOTE:** In adverse soil conditions longer staples/stakes or earth anchors may be necessary to properly secure the RECPS.

4 TURF REINFORCEMENT MATTING

NOT TO SCALE

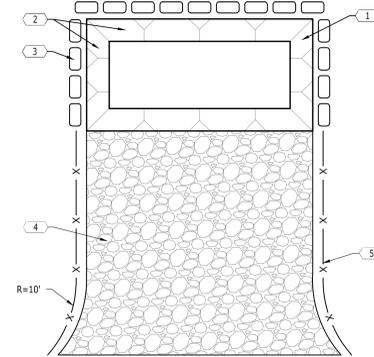
KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE WASH-OUT; 10'x20'; LINE WITH IMPERMEABLE GEOTEXTILE FABRIC AND SHALL HAVE A MIN. 12" DEPTH.
2	SLOPE SIDES 1:1
3	SANDBAGS
4	WASH-OUT GRAVEL ENTRANCE; 20'x20'; EDGE OF ENTRANCE TO BE LOCATED ON THE CURB EDGE OF ROADWAY
5	SILT FENCE; STAKE DOWN FIRST 10 FEET AT ENTRANCE WITH IRON RODS SPACED AT 12' O.C.

NOTE:
 1. TEMPORARY PIT SHALL BE CONSTRUCTED DEEP ENOUGH TO HANDLE ALL ANTICIPATED SLURRY, SOLID WASTE AND DIRECT RAINFALL.
 2. NO RUNOFF SHALL LEAVE THE WASH-OUT AREA.
 3. WASH-OUT WASTES INTO TEMPORARY PIT WHERE CONCRETE CAN SET, BE BROKEN UP AND PROPERLY DISPOSED OF.
 4. WASH-OUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES CONSTRUCTED AND READY FOR USE, ONCE THE WASH-OUT IS 75% FULL.
 5. WASH-OUT SHALL BE LOCATED A MIN. OF 50' AWAY FROM STORM DRAINS, OPEN DITCHES, WETLANDS AND WATER BODIES.
 6. SIGNAGE IDENTIFYING THE CONCRETE WASH-OUT AREA SHALL BE INSTALLED WITHIN 5' OF THE WASH-OUT FACILITY.

3

CONCRETE WASH-OUT

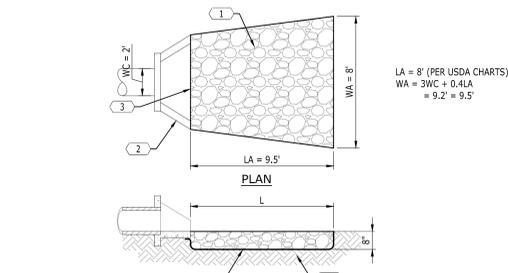
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2

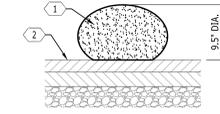
RIP-RAP OUTLET PROTECTION

NOT TO SCALE



1 TEMPORARY SILTATION EEL

NOT TO SCALE



KEYNOTES	
CODE	DESCRIPTION
1	SILTATION EEL DEVICE, USED IN AREAS WHERE EXISTING PAVEMENT PREVENTS THE USE OF SILT FENCE, STABILIZE THE SILTATION EEL BY PLACING SANDBAGS SPACED A MAX. OF 8' O.C. ON TOP OF THE DEVICE
2	PAVEMENT SURFACE

KEYNOTES	
CODE	DESCRIPTION
1	RIP-RAP TO BE HAND-PLACED NATIVE LIMESTONE PLACED TO A MIN. DEPTH OF 1.5'
2	CONCRETE HEADWALL
3	MATCH HEADWALL APRON WIDTH
4	FILTER FABRIC; MIRAFL 180N/BP 4553 OR AN APPROVED EQUIVALENT

NOTE:
 1. RIP-RAP STONE SHALL BE "FRACTURED FACED" WITH AT LEAST THREE DISTINCT SIDES. PROVIDE AND INSTALL IN ACCORDANCE WITH SECTION 709 OF THE CURRENT EDITION OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS-NASHVILLE-STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 2. 450 BY DEFINITION = 50 PERCENT OF THE STONE BY WEIGHT SHALL BE THE SIZE NOTED OR SMALLER.
 3. THE CONTRACTOR SHALL UNIFORMLY DISTRIBUTE STONE SIZES THROUGHOUT THE RIP-RAP PAD.



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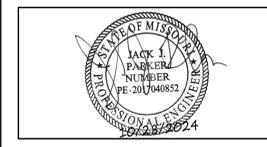
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REVISIONS		
REV #	DESCRIPTION	DATE

DRAWING TITLE
SEDIMENT AND EROSION CONTROL DETAILS
 PROJECT NUMBER
 20240037
 DRAWING NUMBER
DP-C3.3

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AUTHORITY HAVING JURISDICTION:
 CITY OF LEE'S SUMMIT BUILDING DEPT.
 MISSOURI DHSS
 FACILITY NUMBER:
 0972400009
 AGENCY APPROVALS:
 AGENCY

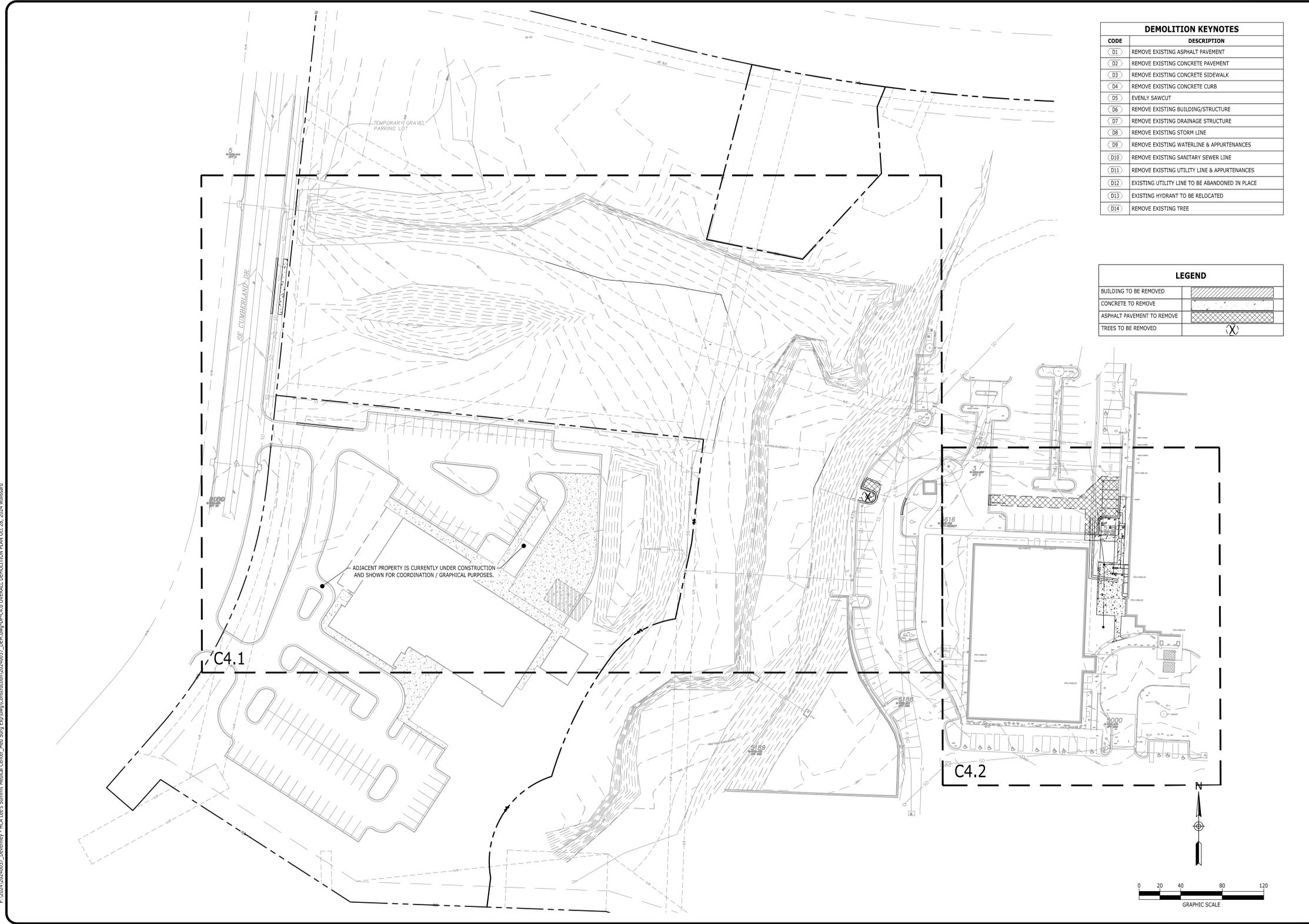
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SEDIMENT AND EROSION CONTROL DETAILS

DP-C3.3

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DEMOLITION KEYNOTES	
CODE	DESCRIPTION
(D1)	REMOVE EXISTING ASPHALT PAVEMENT
(D2)	REMOVE EXISTING CONCRETE PAVEMENT
(D3)	REMOVE EXISTING CONCRETE SIDEWALK
(D4)	REMOVE EXISTING CONCRETE CURB
(D5)	EVENLY SAWCUT
(D6)	REMOVE EXISTING BUILDING/STRUCTURE
(D7)	REMOVE EXISTING DRAINAGE STRUCTURE
(D8)	REMOVE EXISTING STORM LINE
(D9)	REMOVE EXISTING WATERLINE & APPURTENANCES
(D10)	REMOVE EXISTING SANITARY SEWER LINE
(D11)	REMOVE EXISTING UTILITY LINE & APPURTENANCES
(D12)	EXISTING UTILITY LINE TO BE ABANDONED IN PLACE
(D13)	EXISTING HYDRANT TO BE RELOCATED
(D14)	REMOVE EXISTING TREE

LEGEND	
BUILDING TO BE REMOVED	
CONCRETE TO REMOVE	
ASPHALT PAVEMENT TO REMOVE	
TREES TO BE REMOVED	



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PROJECT NUMBER
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DRAWING NUMBER
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**Devenney
GROUP**

Devenney Group Ltd., Architects

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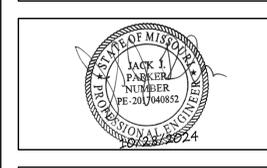
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HCA - LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
**CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS**

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

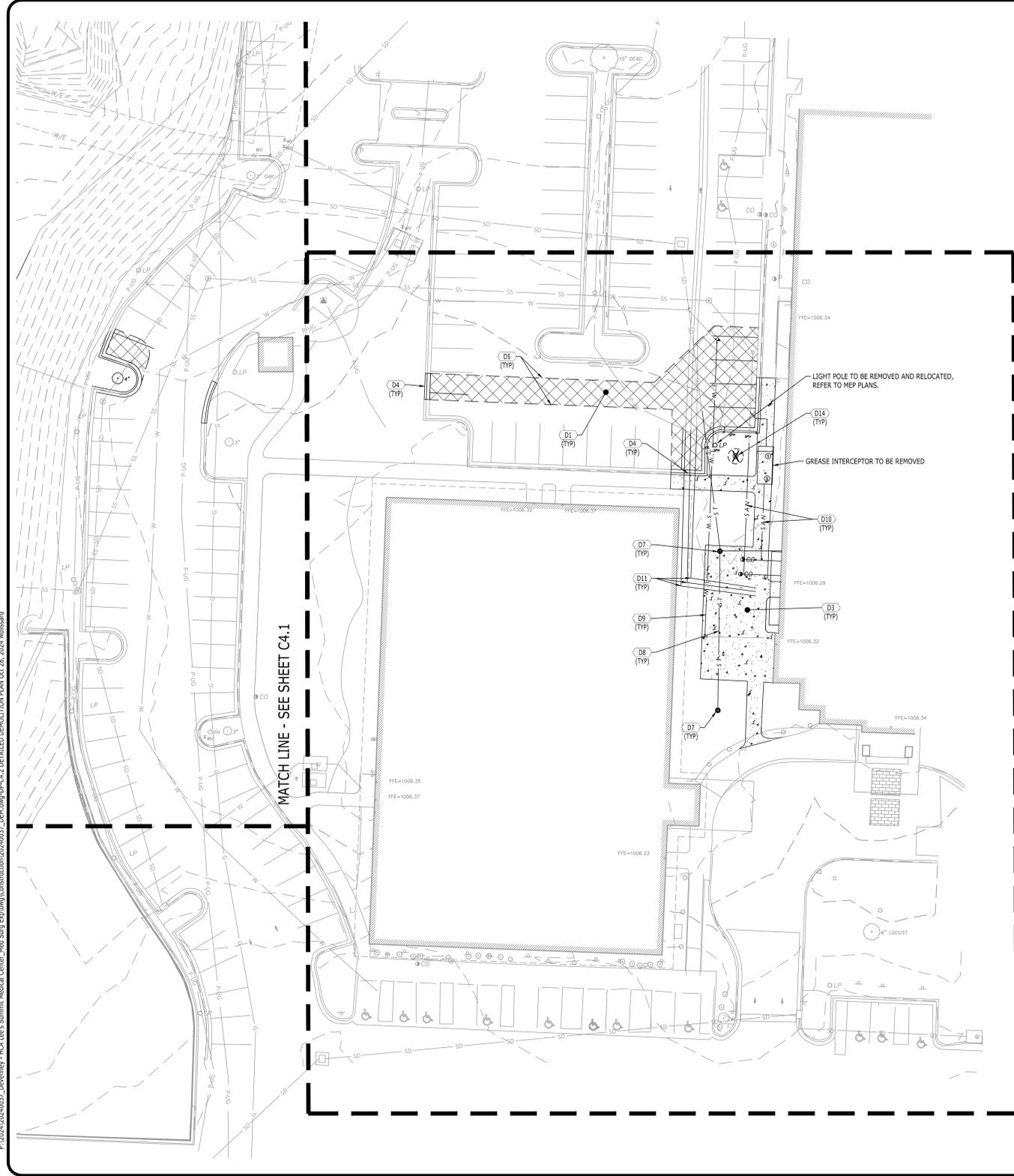
DATE: 2024/09/19
SCALE: 1:40
DRAWN: AP
REVIEWED: WB
JOB NUMBER: 6406.24

**OVERALL
DEMOLITION PLAN**

DP-C4.0

6/19/2024 2:05:24 PM AutoCAD Docx/1662-24-0001-116A - SANCMedSurg Expansion - r123\6406-24\0001-HCA - SANCMedSurg Expansion.rvt

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\20240037_DEM.dwg-DP-C4.2 DETAILED DEMOLITION PLAN Oct 28, 2024 wblissard



DEMOLITION KEYNOTES	
CODE	DESCRIPTION
(D1)	REMOVE EXISTING ASPHALT PAVEMENT
(D2)	REMOVE EXISTING CONCRETE PAVEMENT
(D3)	REMOVE EXISTING CONCRETE SIDEWALK
(D4)	REMOVE EXISTING CONCRETE CURB
(D5)	EVENLY SAWCUT
(D6)	REMOVE EXISTING BUILDING/STRUCTURE
(D7)	REMOVE EXISTING DRAINAGE STRUCTURE
(D8)	REMOVE EXISTING STORM LINE
(D9)	REMOVE EXISTING WATERLINE & APPURTENANCES
(D10)	REMOVE EXISTING SANITARY SEWER LINE
(D11)	REMOVE EXISTING UTILITY LINE & APPURTENANCES
(D12)	EXISTING UTILITY LINE TO BE ABANDONED IN PLACE
(D13)	EXISTING HYDRANT TO BE RELOCATED
(D14)	REMOVE EXISTING TREE

LEGEND	
BUILDING TO BE REMOVED	
CONCRETE TO REMOVE	
ASPHALT PAVEMENT TO REMOVE	
TREES TO BE REMOVED	



**LEE'S SUMMIT
MEDICAL CENTER**
2100 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
816-282-5000

FINAL DEVELOPMENT PLAN
**HCA LEE'S SUMMIT
MEDICAL CENTER**
2000 SE SHENANDOAH DRIVE
LEE'S SUMMIT, MO, 64063
JACKSON COUNTY

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2100 SE BLUE PKWY
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NO.	DATE	DESCRIPTION

DRAWING TITLE
**DETAILED
DEMOLITION PLAN**

PROJECT NUMBER
20240037

DRAWING NUMBER
DP-C4.2

**Devenney
GROUP**

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

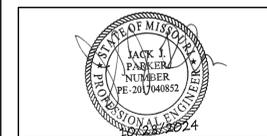
T: 602.943.8950

www.devenneygroup.com

Consultant:

**Catalyst
DESIGN GROUP**

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**CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS**

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 2024/09/19
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DRAWN: AP
REVIEWED: WB
JOB NUMBER: 6406.24

**DETAILED
DEMOLITION PLAN**

DP-C4.2

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 2100 SE BLUE PKWY
 LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
 CITY OF LEE'S SUMMIT BUILDING DEPT.
 MISSOURI DHS

FACILITY NUMBER:
 097240009

AGENCY APPROVALS:
 AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 2024/09/19
 SCALE: 1:40
 DRAWN: AP
 REVIEWED: WB
 JOB NUMBER: 6406.24

OVERALL LAYOUT PLAN

DP-C5.0

SITE LAYOUT KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
(S1A)	ASPHALT PAVEMENT - LIGHT DUTY	1 / DP-C8.0
(S1B)	ASPHALT PAVEMENT - HEAVY DUTY	1 / DP-C8.0
(S3B)	CONCRETE POST CURB	10 / DP-C8.0
(S3C)	CONCRETE CURB & GUTTER	2 / DP-C8.0
(S4A)	CONCRETE SIDEWALK	5 / DP-C8.0
(S4B)	CONCRETE SIDEWALK WITH TURN DOWN CURB	8 / DP-C8.0
(S4C)	CONCRETE SIDEWALK AT CURB & GUTTER	3 / DP-C8.0
(S5)	SIDEWALK JOINTS	6 / DP-C8.0
(S6)	CONCRETE FLUME	2 / DP-C8.1
(S10)	ACCESSIBLE RAMP	3 / DP-C8.1
(S14)	BOLLARD	12 / DP-C8.0
(S15)	PEDESTRIAN CROSSWALK SIGN	7 / DP-C8.0
(S16)	STOP SIGN	4 / DP-C8.0
(S20)	CONCRETE RETAINING WALL (WITH GUARDRAIL)	1 & 4 / DP-C8.1
(S21)	CONCRETE WHEEL STOP	8 / DP-C8.1
(S22)	ELEVATED WALK (WITH GUARDRAIL)	1 & 2 / DP-C8.2

LEGEND	
CONCRETE PAVEMENT	[Pattern]
CONCRETE SIDEWALK	[Pattern]
HEAVY DUTY PAVEMENT	[Pattern]
LIGHT DUTY PAVEMENT	[Pattern]
PAINTED STRIPE	[Pattern]
CONCRETE CURB	[Pattern]
CENTERLINE	[Pattern]

SITE DATA

TAX MAP: 60
 PARCEL ID.: 60-420-99-15-00-0-00-000
 SITE ADDRESS: 2000 SHENANDOAH DRIVE, LEE'S SUMMIT, MO 64063
 SITE ACREAGE: 24.48 AC. (1,066,349 FT²)
 EXISTING ZONING: CP-2
 PROPOSED USE: HOSPITAL

IMPERVIOUS SURFACE AREA: 0.04 AC. (1,766 FT²)
 BUILDINGS: 0.94 AC. (40,787 FT²)
 DRIVES/SIDEWALKS: 0.98 AC. (42,553 FT²)
 TOTAL PROPOSED IMPERVIOUS AREA: 0.98 AC. (42,553 FT²)

PARKING SUMMARY

PARKING REQUIRED:
 HOSPITAL: 1.8 SPACES / BED
 MOB: 5 SPACES / 1,000SF
 PROPOSED 26 BED FACILITY: 1.8 SPACES / BED

LEE'S SUMMIT MEDICAL CENTER					
COMPONENT	EXISTING PARKING	DISPLACED PARKING	ADDED PARKING	ACTUAL PARKING	CODE REQUIRED PARKING
EXISTING (88 BEDS + 122,799 SF OF MOBS)	752	0	0	752	773
PROPOSED PROJECT - (26 BED ADD/TOTAL 114 BEDS)	752	2	75	825	820

TOTAL PARKING REQUIRED:
 88 BEDS X 1.8 SPACES = 159 SPACES REQUIRED
 (122,799 SF OF MOBS / 1,000SF) X 5 = 614 SPACES REQUIRED
 26 BEDS X 1.8 SPACES = 47 SPACES REQUIRED
 TOTAL REQUIRED: 820 SPACES REQUIRED
 EXISTING PARKING: 752 SPACES

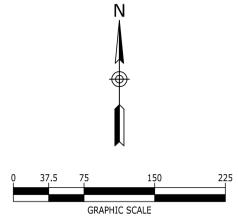
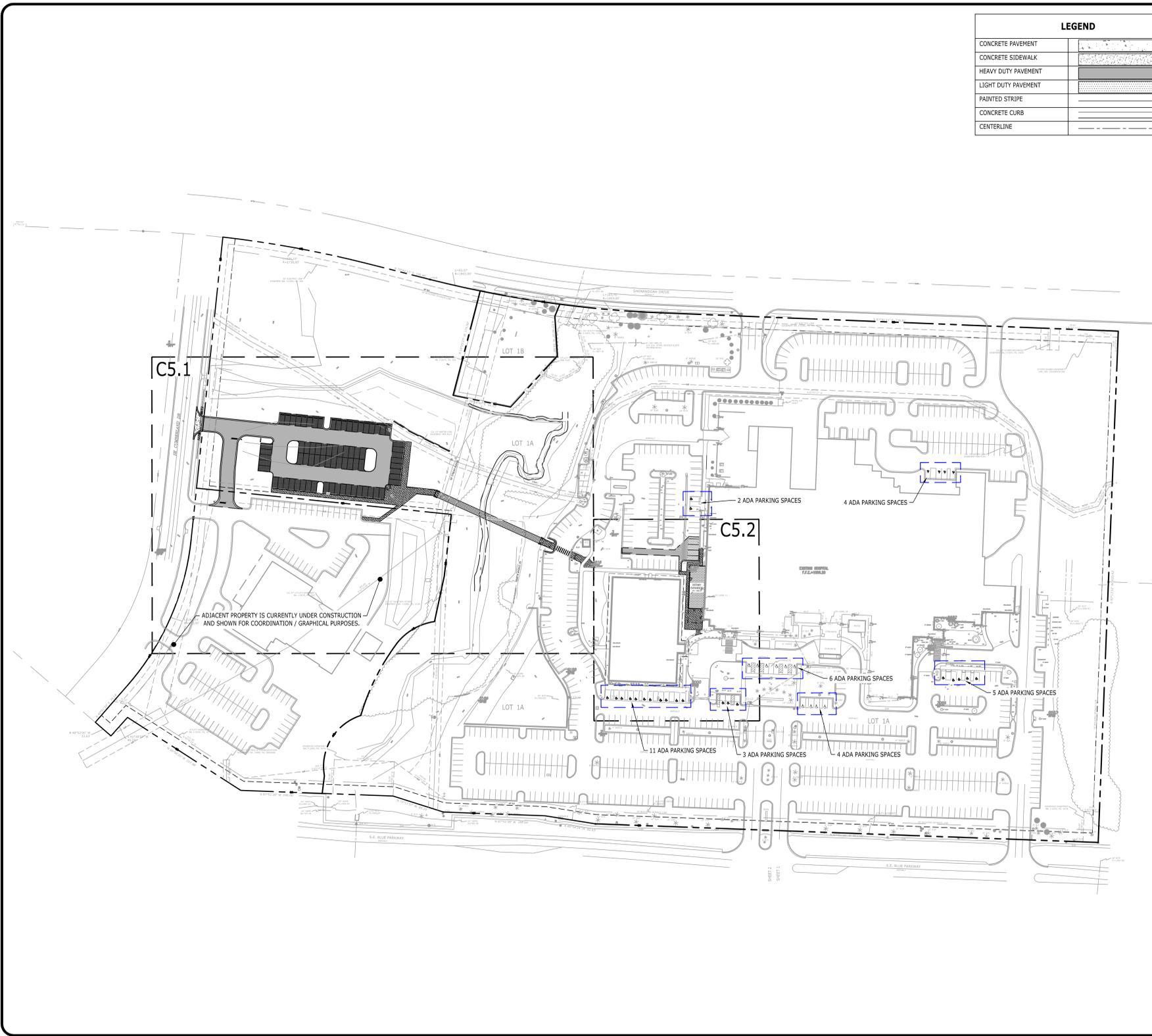
PARKING PROVIDED:
 STANDARD PARKING: 795 SPACES
 ADA PARKING: 35 SPACES
 TOTAL PROVIDED PARKING: 825 SPACES

THE 35 EXISTING ADA SPACES EXCEED THE ADA PARKING REQUIREMENT (17 ADA SPACES) WITH THE REMOTE PARKING LOT ADDITION.

OWNER:
 ADDRESS: MIDWEST DIVISION LSH LLC
 PO BOX 80610
 INDIANAPOLIS, IN 46280

PROJECT REPRESENTATIVE:
 ADDRESS: CATALYST DESIGN GROUP
 1524 WILLIAMS DRIVE
 MURFREESBORO, TN 37129
 615-701-6411
 PHONE NO.: JACK PARKER
 CONTACT NAME: jparkerc@catayst-dg.com
 CONTACT E-MAIL ADDRESS:

FEMA PANEL:
 THE SUBJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 29095C0439G, 01/20/2017, COMMUNITY NAME: JACKSON COUNTY.



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 816-282-5000

FINAL DEVELOPMENT PLAN
HCA LEE'S SUMMIT MEDICAL CENTER
 2000 SE SHENANDOAH DRIVE
 LEE'S SUMMIT, MO, 64063
 JACKSON COUNTY

DRAWING TITLE
OVERALL LAYOUT PLAN

PROJECT NUMBER: 20240037
 DRAWING NUMBER: **DP-C5.0**

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\DWG\Construction\20240037_LAY_DWG-DP-C5.0_OVERALL_LAYOUT_PLAN_Oct 28, 2024.tblsard

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 LEE'S SUMMIT, MO 64063

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 CITY OF LEE'S SUMMIT BUILDING DEPT.
 MISSOURI DHS

FACILITY NUMBER:
 0972400009

AGENCY APPROVALS:
 AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

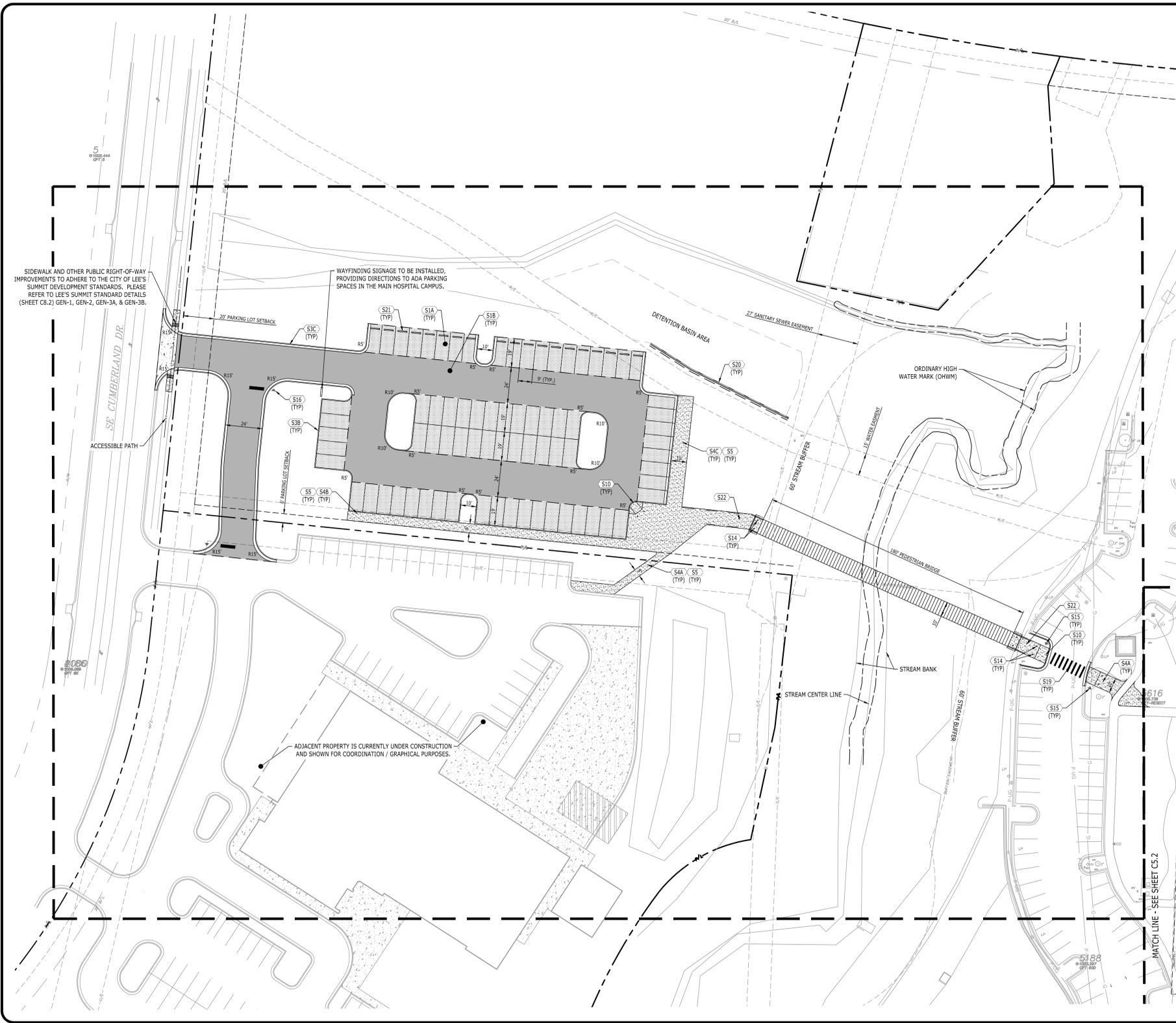
DATE: 2024/09/19
 SCALE: 1:30
 DRAWN: AP
 REVIEWED: WB
 JOB NUMBER: 6406.24

**DETAILED LAYOUT
 PLAN**

DP-C5.1

SITE LAYOUT KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
(S1A)	ASPHALT PAVEMENT - LIGHT DUTY	1 / DP-C8.0
(S1B)	ASPHALT PAVEMENT - HEAVY DUTY	1 / DP-C8.0
(S3B)	CONCRETE POST CURB	10 / DP-C8.0
(S3C)	CONCRETE CURB & GUTTER	2 / DP-C8.0
(S4A)	CONCRETE SIDEWALK	5 / DP-C8.0
(S4B)	CONCRETE SIDEWALK WITH TURN DOWN CURB	8 / DP-C8.0
(S4C)	CONCRETE SIDEWALK AT CURB & GUTTER	3 / DP-C8.0
(S5)	SIDEWALK JOINTS	6 / DP-C8.0
(S6)	CONCRETE FLUME	2 / DP-C8.1
(S10)	ACCESSIBLE RAMP	3 / DP-C8.1
(S14)	BOLLARD	12 / DP-C8.0
(S15)	PEDESTRIAN CROSSWALK SIGN	7 / DP-C8.0
(S16)	STOP SIGN	4 / DP-C8.0
(S20)	CONCRETE RETAINING WALL (WITH GUARDRAIL)	1 & 4 / DP-C8.1
(S21)	CONCRETE WHEEL STOP	8 / DP-C8.1
(S22)	ELEVATED WALK (WITH GUARDRAIL)	1 & 2 / DP-C8.2

LEGEND	
CONCRETE PAVEMENT	[Pattern]
CONCRETE SIDEWALK	[Pattern]
HEAVY DUTY PAVEMENT	[Pattern]
LIGHT DUTY PAVEMENT	[Pattern]
PAINTED STRIPE	[Pattern]
CONCRETE CURB	[Pattern]
CENTERLINE	[Pattern]
TACTILE WARNING	[Pattern]



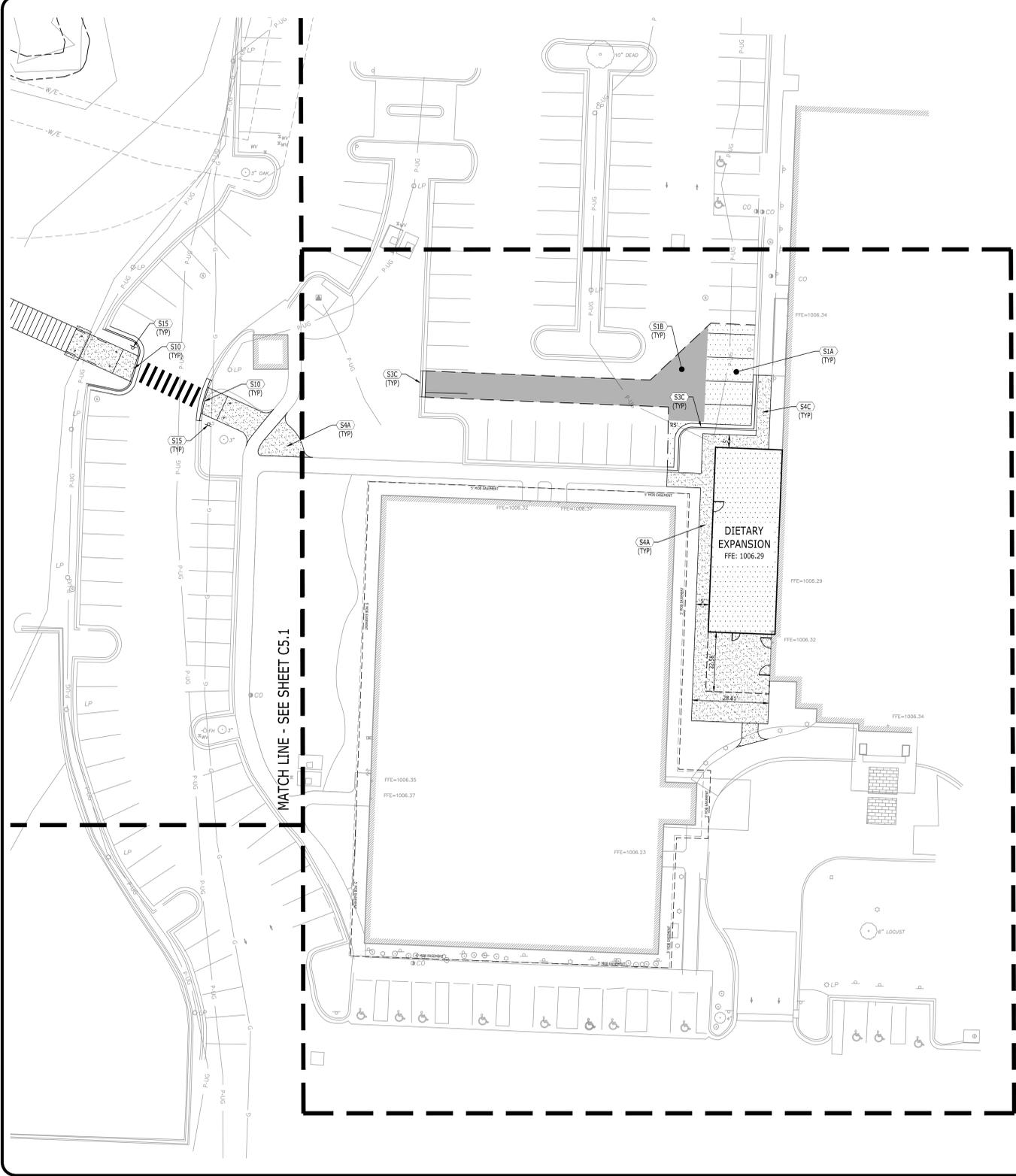
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REVISIONS		
REV #	DESCRIPTION	DATE

SITE LAYOUT KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
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CONCRETE SIDEWALK	[Pattern]
HEAVY DUTY PAVEMENT	[Pattern]
LIGHT DUTY PAVEMENT	[Pattern]
PAINTED STRIPE	[Pattern]
CONCRETE CURB	[Pattern]
CENTERLINE	[Pattern]



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 MISSOURI DHS

FACILITY NUMBER:
 0972400009

AGENCY APPROVALS:
 AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 2024/09/19
 SCALE: 1:40
 DRAWN: AP
 REVIEWED: WB
 JOB NUMBER: 6406.24

OVERALL GRADING &
 DRAINAGE PLAN

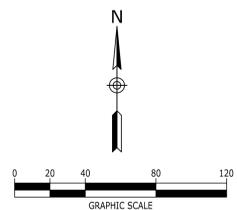
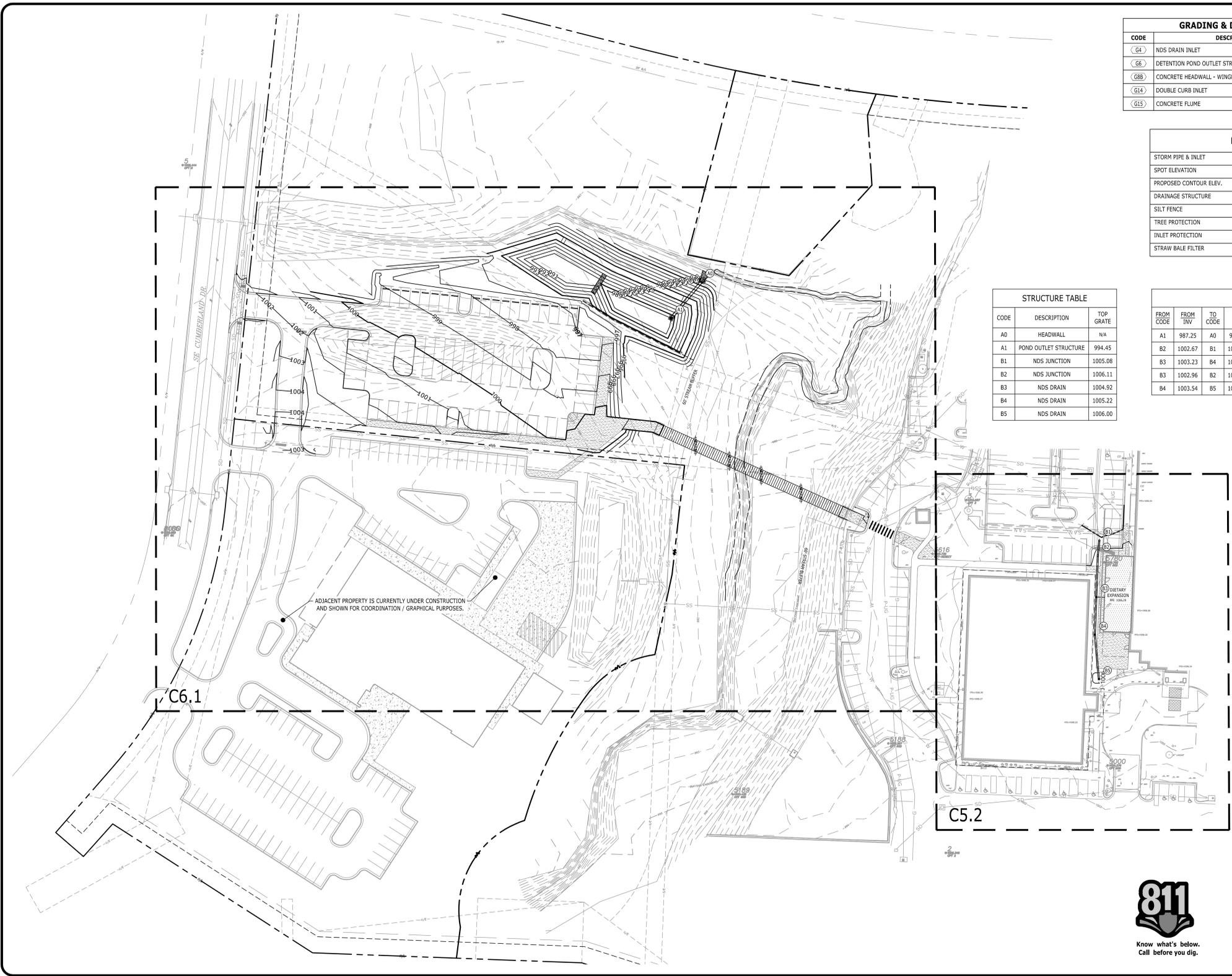
DP-C6.0

GRADING & DRAINAGE KEYNOTES		
CODE	DESCRIPTION	DET # / SHT #
G4	NDS DRAIN INLET	9 / DP-C6.0
G6	DETENTION POND OUTLET STRUCTURE	DP-C6.3
G8B	CONCRETE HEADWALL - WINGED	11 / DP-C6.0
G14	DOUBLE CURB INLET	8 / DP-C6.1
G15	CONCRETE FLUME	2 / DP-C6.1

LEGEND	
STORM PIPE & INLET	
SPOT ELEVATION	
PROPOSED CONTOUR ELEV.	
DRAINAGE STRUCTURE	
SILT FENCE	
TREE PROTECTION	
INLET PROTECTION	
STRAW BALE FILTER	

STRUCTURE TABLE		
CODE	DESCRIPTION	TOP GRATE
A0	HEADWALL	N/A
A1	POND OUTLET STRUCTURE	994.45
B1	NDS JUNCTION	1005.08
B2	NDS JUNCTION	1006.11
B3	NDS JUNCTION	1004.92
B4	NDS DRAIN	1005.22
B5	NDS DRAIN	1006.00

PIPE TABLE							
FROM CODE	FROM INV.	TO CODE	TO INV.	GRADE (%)	SIZE (INCHES)	LENGTH (L.F.)	TYPE
A1	987.25	A0	987.14	0.25%	24"	43	HDPE
B2	1002.67	B1	1002.60	0.50%	12"	14	HDPE
B3	1003.23	B4	1003.06	0.50%	12"	35	HDPE
B3	1002.96	B2	1002.77	0.50%	12"	38	HDPE
B4	1003.54	B5	1003.33	0.50%	12"	41	HDPE



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FINAL DEVELOPMENT PLAN
 HCA LEE'S SUMMIT
 MEDICAL CENTER
 2000 SE SHENANDOAH DRIVE
 LEE'S SUMMIT, MO. 64063
 JACKSON COUNTY

NO.	DATE	DESCRIPTION

DRAWING TITLE
**OVERALL GRADING &
 DRAINAGE PLAN**

PROJECT NUMBER
 20240037

DRAWING NUMBER
DP-C6.0

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\DWG\Construction\20240037_GRA\DWG-DP-C6.0 OVERALL GRADING & DRAINAGE PLAN OCT 28, 2024.wbldraw

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 MISSOURI DHS

FACILITY NUMBER:
 097240009

AGENCY APPROVALS:
 AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

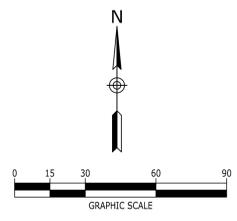
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 REVIEWED: WB
 JOB NUMBER: 6406.24

DETAILED GRADING
 & DRAINAGE PLAN

DP-C6.1

GRADING & DRAINAGE KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
G4	NDS DRAIN INLET	9 / DP-C6.0
G6	DETENTION POND OUTLET STRUCTURE	DP-C6.3
G8B	CONCRETE HEADWALL - WINGED	11 / DP-C6.0
G14	DOUBLE CURB INLET	8 / DP-C6.1
G15	CONCRETE FLUME	2 / DP-C6.1

LEGEND	
STORM PIPE & INLET	
SPOT ELEVATION	
PROPOSED CONTOUR ELEV.	
DRAINAGE STRUCTURE	
SILT FENCE	
TREE PROTECTION	
INLET PROTECTION	
STRAW BALE FILTER	



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FINAL DEVELOPMENT PLAN
 HCA LEE'S SUMMIT
 MEDICAL CENTER
 2000 SE SHENANDOAH DRIVE
 LEE'S SUMMIT, MO. 64063
 JACKSON COUNTY

NO.	DATE	DESCRIPTION

DRAWING TITLE
**DETAILED GRADING
 & DRAINAGE PLAN**

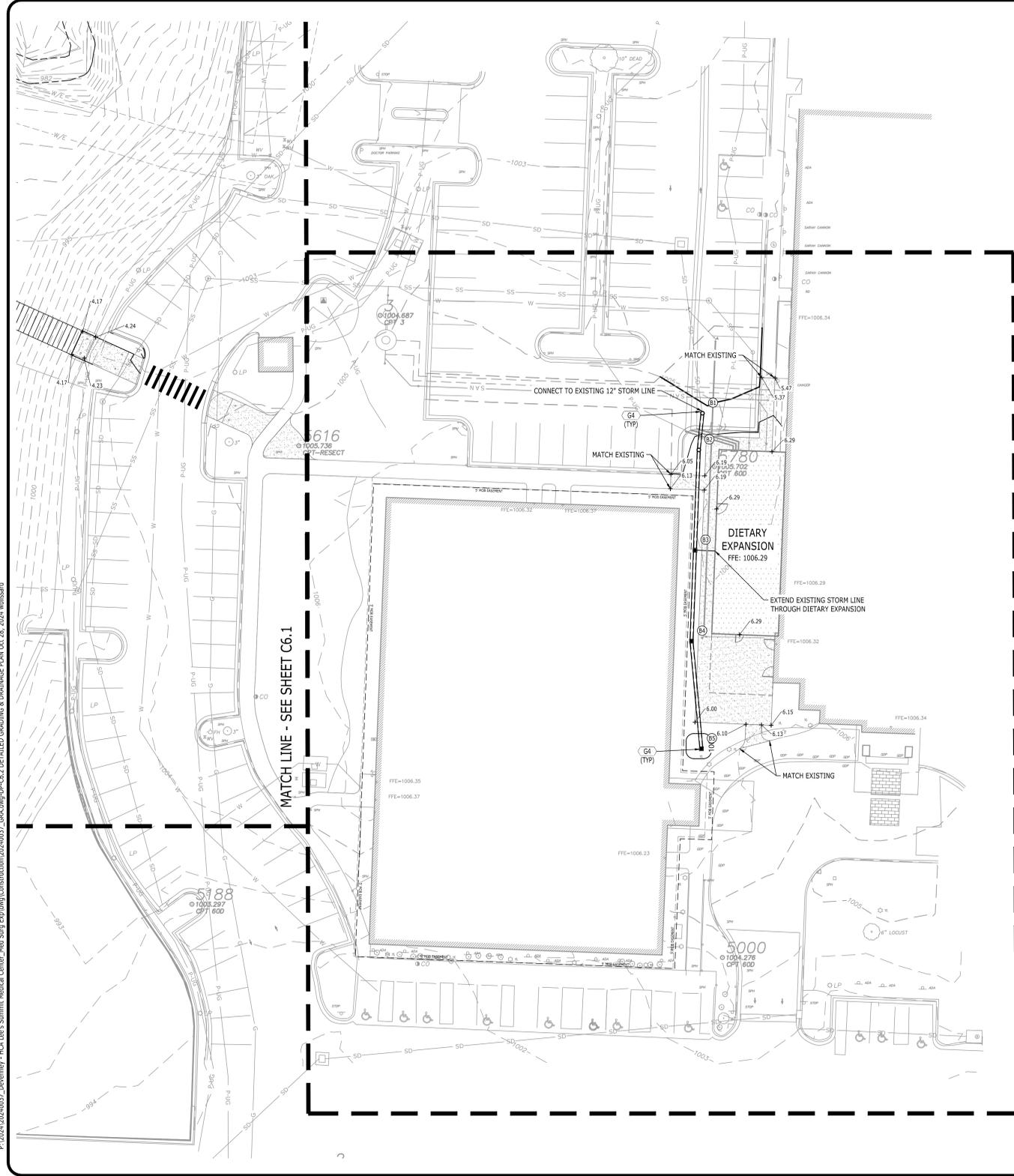
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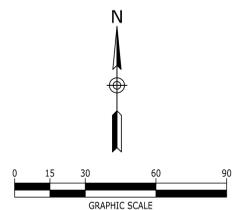
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GRADING & DRAINAGE KEYNOTES		
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TREE PROTECTION	
INLET PROTECTION	
STRAW BALE FILTER	



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JACKSON COUNTY

DIETARY EXPANSION
FFE: 1006.29
EXTEND EXISTING STORM LINE THROUGH DIETARY EXPANSION

NO.	DATE	DESCRIPTION

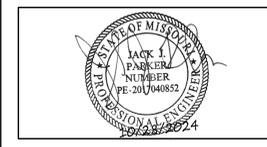
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DETAILED GRADING & DRAINAGE PLAN

PROJECT NUMBER
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DRAWING NUMBER
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DETAILED GRADING & DRAINAGE PLAN

DP-C6.2

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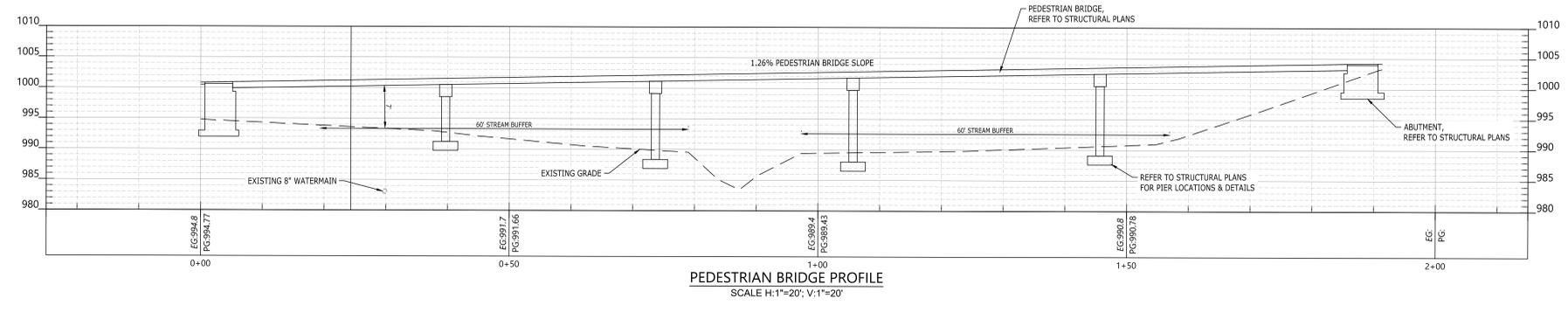
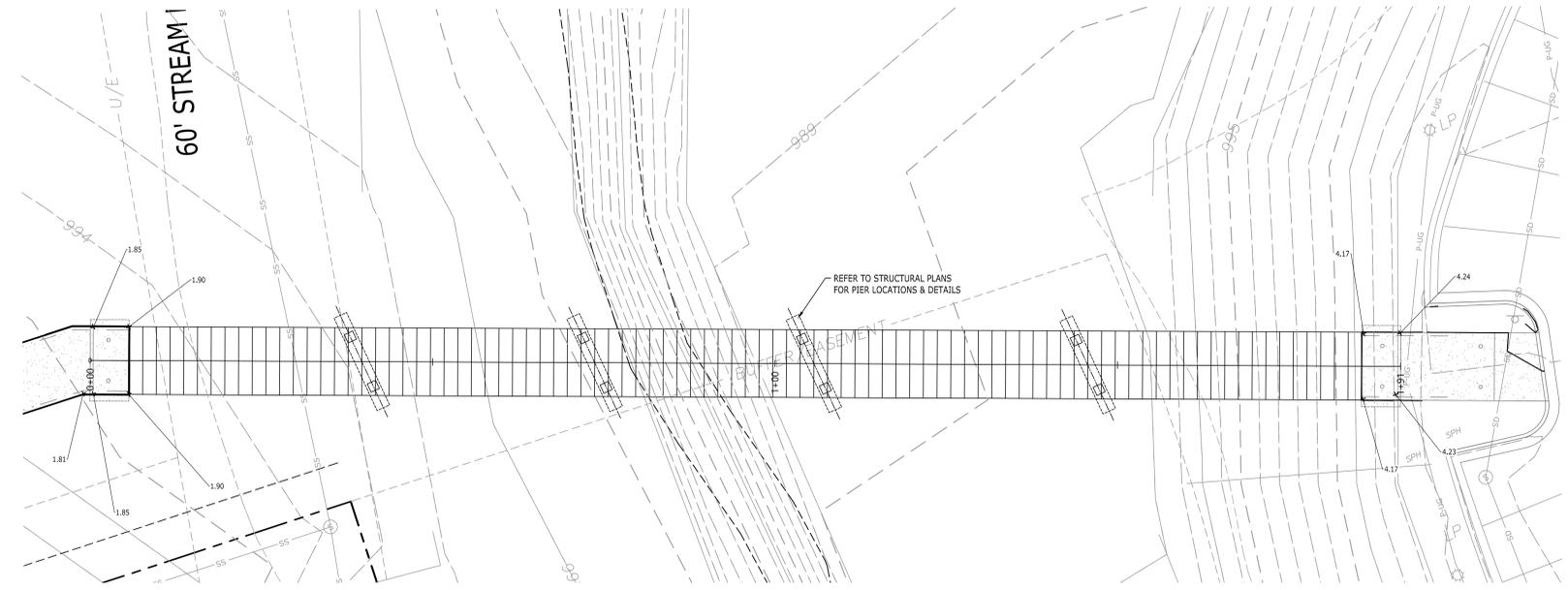
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 DRAWN: AP
 REVIEWED: WB
 JOB NUMBER: 6406.24

PEDESTRIAN BRIDGE
 PLAN & PROFILE

DP-C6.4

GRADING & DRAINAGE KEYNOTES		
CODE	DESCRIPTION	DET # / SHT #
G4	NDS DRAIN INLET	9 / DP-C6.0
G6	DETENTION POND OUTLET STRUCTURE	DP-C6.3
G8B	CONCRETE HEADWALL - WINGED	11 / DP-C6.0
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G15	CONCRETE FLUME	2 / DP-C6.1

LEGEND	
STORM PIPE & INLET	
SPOT ELEVATION	
PROPOSED CONTOUR ELEV.	
DRAINAGE STRUCTURE	
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TREE PROTECTION	
INLET PROTECTION	
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FINAL DEVELOPMENT PLAN
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 MEDICAL CENTER
 2000 SE SHENANDOAH DRIVE
 LEE'S SUMMIT, MO. 64063
 JACKSON COUNTY

NO.	DATE	DESCRIPTION

DRAWING TITLE
**PEDESTRIAN BRIDGE
 PLAN & PROFILE**

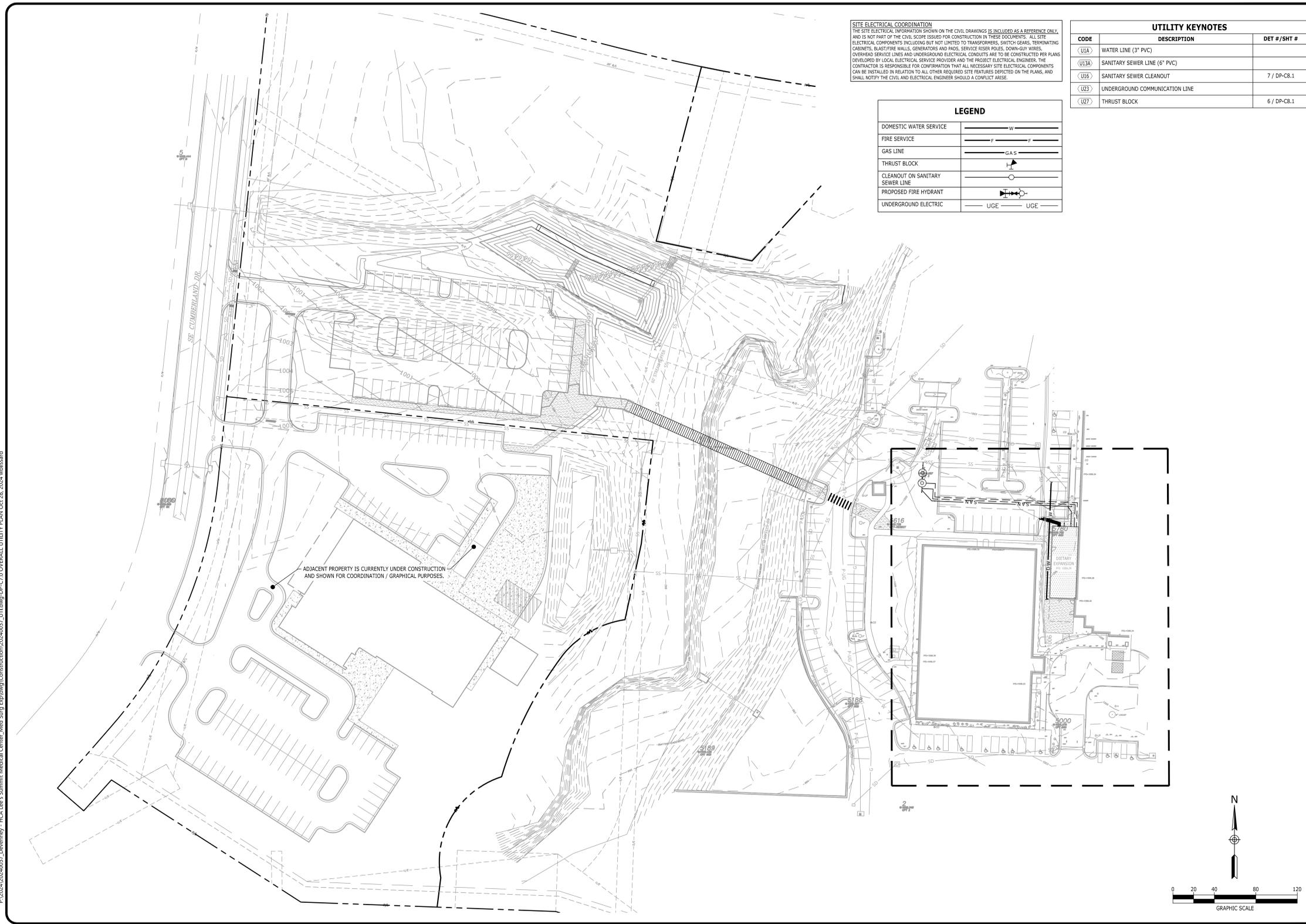
PROJECT NUMBER
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DRAWING NUMBER
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SITE ELECTRICAL COORDINATION
 THE SITE ELECTRICAL INFORMATION SHOWN ON THE CIVIL DRAWINGS IS INCLUDED AS A REFERENCE ONLY, AND IS NOT PART OF THE CIVIL SCOPE ISSUED FOR CONSTRUCTION IN THESE DOCUMENTS. ALL SITE ELECTRICAL COMPONENTS INCLUDING BUT NOT LIMITED TO TRANSFORMERS, SWITCH GEARS, TERMINATING CABINETS, BLAST/FIRE WALLS, GENERATORS AND PADS, SERVICE RISER POLES, DOWN-GUY WIRES, OVERHEAD SERVICE LINES AND UNDERGROUND ELECTRICAL CONDUITS ARE TO BE CONSTRUCTED PER PLANS DEVELOPED BY LOCAL ELECTRICAL SERVICE PROVIDER AND THE PROJECT ELECTRICAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMATION THAT ALL NECESSARY SITE ELECTRICAL COMPONENTS CAN BE INSTALLED IN RELATION TO ALL OTHER REQUIRED SITE FEATURES DEPICTED ON THE PLANS, AND SHALL NOTIFY THE CIVIL AND ELECTRICAL ENGINEER SHOULD A CONFLICT ARISE.

LEGEND

DOMESTIC WATER SERVICE	— W —
FIRE SERVICE	— F —
GAS LINE	— GAS —
THRUST BLOCK	— T —
CLEANOUT ON SANITARY SEWER LINE	— C —
PROPOSED FIRE HYDRANT	— H —
UNDERGROUND ELECTRIC	— UGE —

UTILITY KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
(U1A)	WATER LINE (3" PVC)	
(U1A)	SANITARY SEWER LINE (6" PVC)	
(U16)	SANITARY SEWER CLEANOUT	7 / DP-C8.1
(U23)	UNDERGROUND COMMUNICATION LINE	
(U27)	THRUST BLOCK	6 / DP-C8.1

ADJACENT PROPERTY IS CURRENTLY UNDER CONSTRUCTION AND SHOWN FOR COORDINATION / GRAPHICAL PURPOSES.



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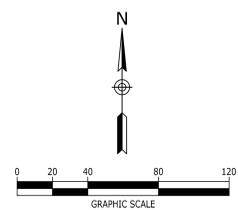
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NO.	DATE	DESCRIPTION

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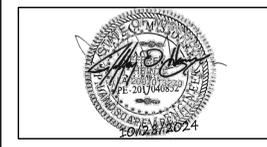
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FACILITY NUMBER:
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OVERALL UTILITY PLAN

DP-C7.0

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FINAL DEVELOPMENT PLAN
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 LEE'S SUMMIT, MO 64063
 JACKSON COUNTY

NO.	DATE	DESCRIPTION

DRAWING TITLE
SITE DETAILS

PROJECT NUMBER
 20240037

DRAWING NUMBER
DP-C8.1

KEYNOTES

CODE	DESCRIPTION
1	BARS "L"
2	BARS "V2"
3	BARS "D"
4	No. 4 BARS 18" LONG, 18" APART
5	BARS "T"
6	4" PERFORATED PVC FOUNDATION DRAIN.
7	PAVEMENT SURFACE
8	FREE-DRAINING STONE FILL
9	BARS "V1"
10	1" CHAMFER, TYP.
11	1" DEEP VEE CONTROL JOINT, SPACE 15' APART MAX. EACH FACE. CUT ALTERNATE HORIZONTAL BARS 2" BACK EACH SIDE OF JOINT, EACH FACE. FILL VEES WITH MASTIC BEFORE BACKFILLING.

NOTES:
 1. ALL STEEL SHALL BE ASTM GRADE 60 DEFORMED BARS, 15,000 PSI TENSILE STRENGTH.
 2. ALL CONCRETE SHALL DEVELOP A COMPRESSIVE STRENGTH OF AT LEAST 4000 PSI AT 28 DAYS CURE.

RETAINING WALL SCHEDULE

"H"	BASE	"B"	"A"	"C"	BAR SIZE AND SPACING					
"H"	"B"	"A"	"C"	"V1"	"V2"	"D"	"L"	"T"		
0'-6"	4'-9"	1'-3"	10'	2'-8"	No. 4 AT 10"	No. 4 AT 18"	No. 4 AT 10"			

1 CONCRETE RETAINING WALL

SECTION (NOT TO SCALE)

ELEVATION (NOT TO SCALE)

5 RESERVED

NOT TO SCALE

KEYNOTES

CODE	DESCRIPTION
1	1 1/2" O.D. TUBULAR POST AND RAIL
2	1 1/2" O.D. TUBULAR BOTTOM RAIL
3	MIN. 2 1/2" I.D. TUBE STEEL SLEEVE CAST IN PLACE. GROUT GUARDRAIL POST IN PLACE (TYP.).
4	CONCRETE SURFACE

NOTES:
 1. PROVIDE 42" HIGH 1 1/2" O.D. ROUND OR SQUARE TUBE GUARD RAIL AT ELEVATION DROPS 30" OR GREATER. VERTICAL PICKETS SHALL BE 1" SQUARE TUBES SPACED 4" APART ON CENTER, MAX. RAIL TO HAVE SMOOTH FINISH AT ALL WELDED SURFACES AND PAINTED WITH TWO COATS OF RUST RESISTANT PRIMER AND THEN PAINTED WITH TWO COATS OF ENAMEL. ENAMEL COLOR SHALL BE SELECTED BY THE ARCHITECT.
 2. VARIATIONS IN GUARDRAIL HEIGHT SHALL NOT BE ALLOWED.
 3. THE MAXIMUM CLEARANCE BETWEEN THE BOTTOM RAIL AND THE CONCRETE SURFACE OR CHEEK WALL TOP SHALL BE 2".

4 GUARDRAIL

NOT TO SCALE

6 THRUST BLOCKING

NOT TO SCALE

KEYNOTES

CODE	DESCRIPTION
1	CLEANOUT WITH COVER, BRONZE OR PVC CLEANOUT WITH RECESSED CAP IN LAWN AREAS. CAST IRON CLEANOUT WITH RECESSED CAP IN PAVEMENT AREAS. BRONZE CAP TO BE USED IN SIDEWALKS.
2	18"x18"x4" CONCRETE COLLAR
3	FINISHED GRADE
4	ASPHALT
5	LONG SWEEP 1/4" BEND. INSTALL REDUCER WHERE REQUIRED.
6	SANITARY TEE
7	EXTENSION SAME SIZE AS SEWER, TO 6" MAX. DIAMETER
8	COMBINATION WYE AND 1/8" BEND. USE REDUCING TYPE WHERE REQUIRED.
9	SEE PLANS FOR SEWER MATERIAL AND SIZE.

TWO-WAY

ONE-WAY

END-OF-LINE

NOTE:
 DIMENSIONS ARE BASED ON A SOIL BEARING CAPACITY OF 1000 PSF AND WATER PRESSURE OF 150 PSI (100 PSI + 50% FOR WATER HAMMER).

90° BEND

PIPE SIZE	H1	H2	D	V
4"	24"	12"	12"	24"
6"	36"	16"	18"	30"
8"	48"	18"	18"	36"

45° BEND

PIPE SIZE	H1	H2	D	V
4"	24"	8"	12"	12"
6"	30"	10"	18"	20"
8"	36"	11"	18"	30"

22 1/2° BEND

PIPE SIZE	H1	H2	D	V
4"	12"	8"	12"	12"
6"	18"	10"	18"	18"
8"	27"	11"	18"	20"

11 1/4° BEND

PIPE SIZE	H1	H2	D	V
4"	12"	8"	12"	12"
6"	16"	10"	18"	12"
8"	18"	11"	18"	16"

TEES AND PLUGS

PIPE SIZE	H1	H2	D	V
4"	24"	12"	12"	16"
6"	30"	16"	18"	24"
8"	40"	18"	18"	30"

BENDS (ISOMETRIC)

7 CLEANOUTS

NOT TO SCALE

KEYNOTES

CODE	DESCRIPTION
1	WHEEL STOP; REQUIRES TWO NO. 5 STEEL BAR ANCHOR STAKES, 24" LONG FOR EACH SECTION; EACH SECTION REINFORCED WITH TWO NO. 3 DEFORMED BARS
2	FACE OF CURB OR EDGE OF PAVEMENT
3	1" DIA. HOLE (TYP.)

8 PRECAST CONCRETE WHEEL STOP

NOT TO SCALE

3 ACCESSIBLE CURB RAMPS

NOT TO SCALE

KEYNOTES

CODE	DESCRIPTION
1	RAISED PEDESTRIAN CROSSWALK; REFER TO DETAIL
2	CONCRETE PAVEMENT
3	RAMP; 1:12 MAX. LONGITUDINAL SLOPE (TYP.); PROVIDE TACTILE WARNING SURFACE WHERE SPECIFIED
4	TACTILE WARNING; MIN. 2" STRIP WHERE ABUTS A PUBLIC STREET OR AS SPECIFIED; REFER TO DETAIL
5	CONCRETE WALK; CROWN WALK WITH MAX. 2% CROSS SLOPE TO THE EDGES (TYP.); 5% MAX LONGITUDINAL SLOPE
6	TRANSITION CURB TO FLUSH CONDITION OVER 2" (TYP.)
7	LANDING AREA; MAX. 2% CROSS SLOPE IN ANY DIRECTION
8	PAVEMENT
9	EXPANSION JOINT
10	FACE OF CURB
11	GRASS STRIP

NOTE: GRADE DIFFERENCES SHOWN ARE CONCEPTUAL; REFER TO GRADING PLAN FOR ACTUAL ELEVATIONS

ACCESSIBLE CURB RAMP "A"

ACCESSIBLE CURB RAMP "B"

ACCESSIBLE CURB RAMP "C"

ACCESSIBLE CURB RAMP "D"

CURB RAMP AT RAISED PEDESTRIAN CROSSWALK

2 CONCRETE FLUME

NOT TO SCALE

KEYNOTES

CODE	DESCRIPTION
1	FLUME
2	CURB
3	6"x6" W2.9 X W2.9 W.W.F.
4	3500 PSI CONCRETE
5	4" MINERAL AGGREGATE BASE
6	BACKFILL
7	3/4" RADIUS, TYP

ISOMETRIC

SECTION

1 ACCESSIBLE RAMP - FLARED

NOT TO SCALE

KEYNOTES

CODE	DESCRIPTION
1	CONCRETE RAMP; 4" THICK, 3500 PSI CONCRETE; CONCRETE REINFORCED WITH 6"x6"xW2.9XW2.9 W.W.F.; BEDDING SIMILAR TO ADJACENT SIDEWALK
2	FLARED SIDES; PROVIDE A SMOOTH TRANSITION FROM FLUSH CONDITION TO ADJACENT CURB AND SIDEWALK ELEVATIONS
3	LANDING; MINIMUM 3' FLAT (2% MAX. SLOPE); PROVIDED EACH SIDE OF RAMP
4	1/2" EXPANSION JOINT (TYP.)
5	CONCRETE CURB; TRANSITION FROM FLUSH CONDITION TO CURB HEIGHT; PAINT YELLOW; (TYP. EACH SIDE OF RAMP)
6	TACTILE WARNING; PROVIDE WHERE ABUTTING A PUBLIC STREET

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REV #	DESCRIPTION	DATE

REVISIONS		
REV #	DESCRIPTION	DATE



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FINAL DEVELOPMENT PLAN
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 JACKSON COUNTY

NO.	DATE	DESCRIPTION

DRAWING TITLE
SITE DETAILS

PROJECT NUMBER
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DRAWING NUMBER
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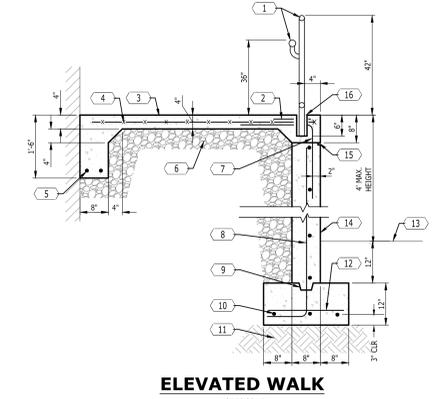
DATE:	2024/09/19
SCALE:	AS SHOWN
DRAWN:	AP
REVIEWED:	WB
JOB NUMBER:	6406.24

SITE DETAILS

DP-C8.2

CODE	DESCRIPTION
1	GUARD RAIL AND HAND RAIL; REFER TO DETAILS
2	12" No. 4 HAIRPIN AT EACH POST
3	BROOM FINISH
4	6"x6", W2.9 X W2.9 W.W.F.
5	TWO No. 5 BARS
6	GRANULAR BACKFILL
7	No. 5 BARS 1", 24" APART; 24" HORIZ., 30" VERT.
8	No. 5 BARS 12" APART EACH WAY
9	2" X 4" KEY
10	THREE No. 5 BARS, CONT.
11	COMPACTED SUBGRADE
12	No. 4 BARS 12" APART
13	FINISH GRADE
14	RUBBED FINISH
15	3/4" X 3/4" REVEAL
16	2" DIA. SLEEVE IN WALL. GROUT POST IN PLACE.

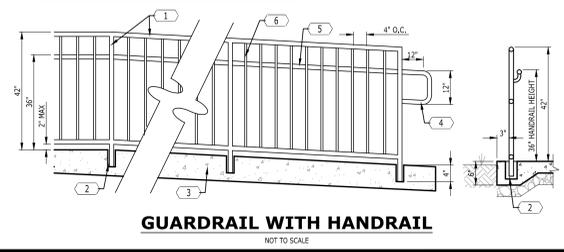
NOTE:
 USE 3500 PSI CONCRETE AND ASTM GRADE 60 STEEL BARS.



ELEVATED WALK
 NOT TO SCALE

CODE	DESCRIPTION
1	1-1/2" O.D. STEEL PIPE RAIL AND POSTS (TYP)
2	2" DIA. PIPE SLEEVE, CAST IN PLACE. GROUT RAIL POST.
3	CONC. WALK OR RAMP
4	3"R MIN
5	HANDRAIL, 1-1/2" DIA. STEEL PIPE
6	1/2" DIA. SQUARE PICKETS

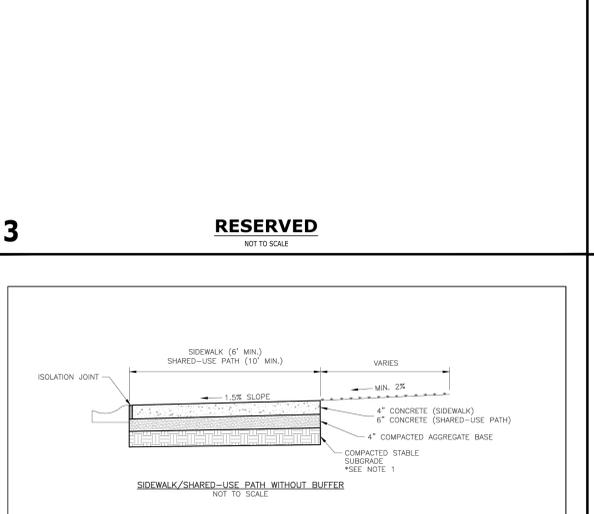
- NOTES:
- PROVIDE 3'-6" HIGH 1-1/2" O.D. GUARD RAIL AT ELEVATION DROPS 30" OR GREATER. MAXIMUM VERTICAL PICKET SPACING SHALL BE 4", ON CENTER. VARIATIONS IN GUARD RAIL HEIGHT SHALL NOT BE ALLOWED.
 - MAXIMUM CLEARANCE BETWEEN BOTTOM RAIL AND CONCRETE SHALL BE 2". GUARD RAIL SHALL BE SMOOTH-FINISHED, ALL WELDED SURFACES PRIMED AND PAINTED WITH TWO COATS OF RUST RESISTANT PRIMER AND TWO COATS OF ENAMEL. COLOR TO BE SELECTED BY ARCHITECT.
 - PROVIDE HAND RAIL WITH GUARD RAIL AT ALL WALKS GREATER THAN 5% SLOPE.



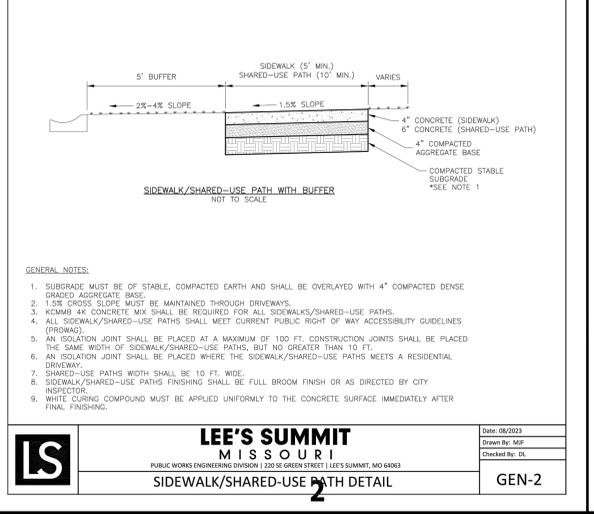
GUARDRAIL WITH HANDRAIL
 NOT TO SCALE



GEN-1



GEN-3A

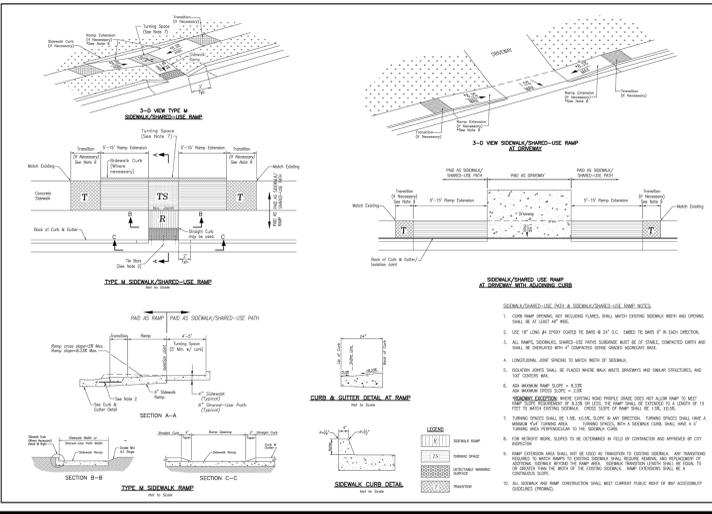
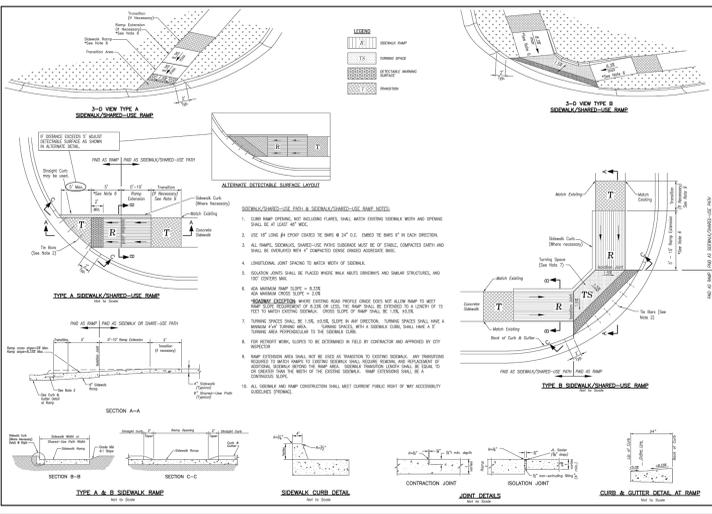
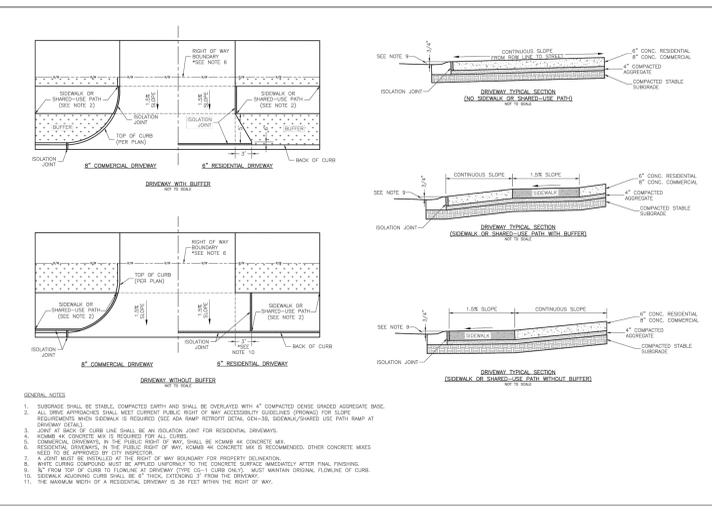


GEN-3B

LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Checked By: **MSF**
 Drawn By: **MSF**
 Date: 09/2023

GEN-2



LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Checked By: **MSF**
 Drawn By: **MSF**
 Date: 09/2023

GEN-1

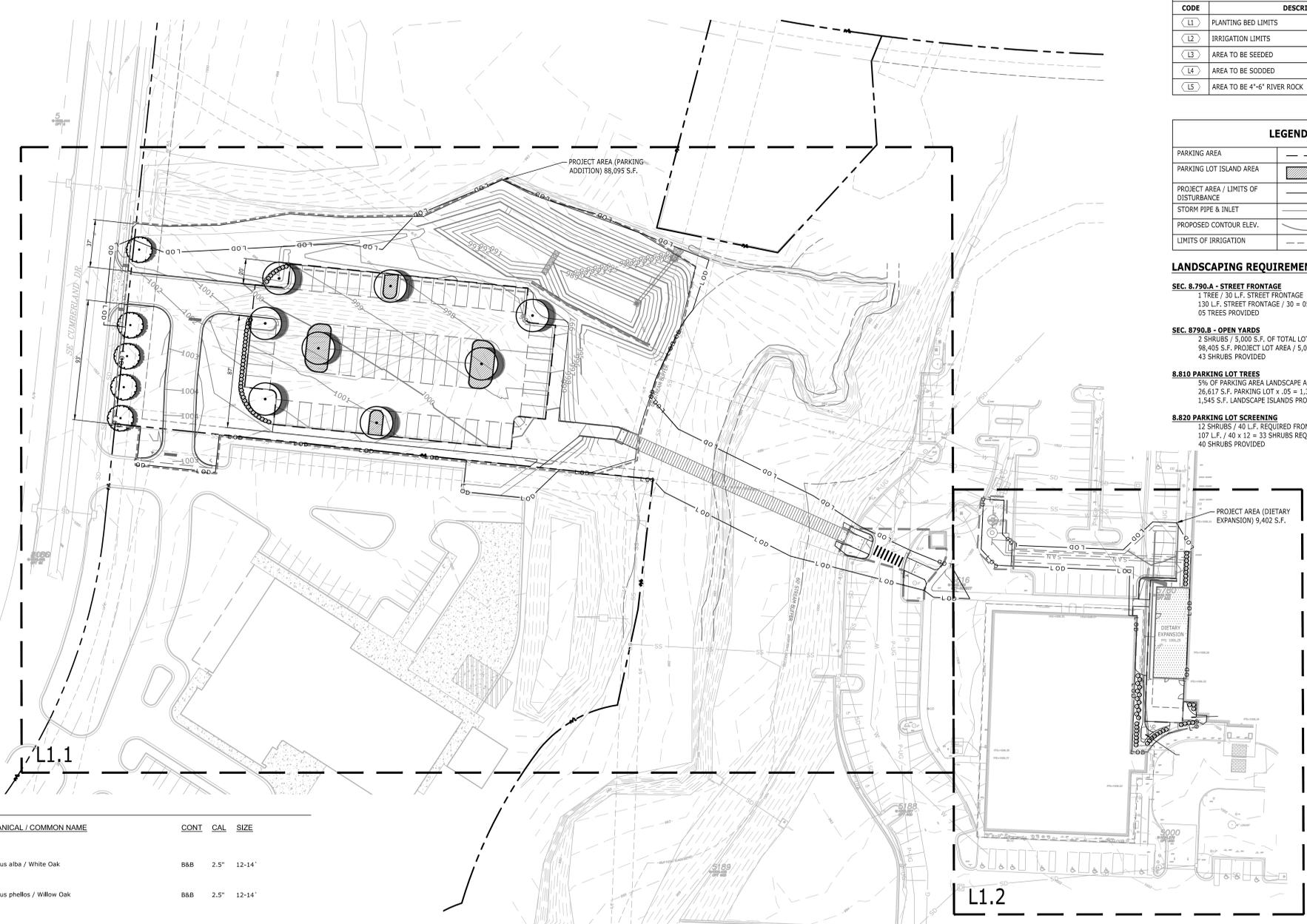
P:\2024\240037\Devenney - HCA Lee's Summit Medical Center_Med Surg Expanding\Construction\20240037_DE.dwg-C8.2 SITE DETAILS Oct 28, 2024 wldssard

LANDSCAPE KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
L1	PLANTING BED LIMITS	1 / L2.0
L2	IRRIGATION LIMITS	NOTES / L2.0
L3	AREA TO BE SEEDED	
L4	AREA TO BE SODDED	
L5	AREA TO BE 4'-6" RIVER ROCK	

LEGEND	
PARKING AREA	
PARKING LOT ISLAND AREA	
PROJECT AREA / LIMITS OF DISTURBANCE	L 0.0
STORM PIPE & INLET	
PROPOSED CONTOUR ELEV.	90
LIMITS OF IRRIGATION	

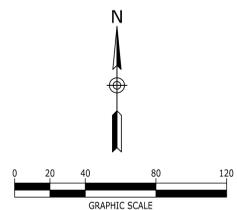
LANDSCAPING REQUIREMENTS

- SEC. 8.790.A - STREET FRONTAGE**
 1 TREE / 30 L.F. STREET FRONTAGE
 130 L.F. STREET FRONTAGE / 30 = 05 TREES REQ.
 05 TREES PROVIDED
- SEC. 8.790.B - OPEN YARDS**
 2 SHRUBS / 5,000 S.F. OF TOTAL LOT AREA
 98,405 S.F. PROJECT LOT AREA / 5,000 x 2 = 40 SHRUBS REQ.
 43 SHRUBS PROVIDED
- 8.810 PARKING LOT TREES**
 5% OF PARKING AREA LANDSCAPE AREA
 26,617 S.F. PARKING LOT x .05 = 1,330 S.F. LANDSCAPE ISLANDS REQ.
 1,545 S.F. LANDSCAPE ISLANDS PROVIDED
- 8.820 PARKING LOT SCREENING**
 12 SHRUBS / 40 L.F. REQUIRED FROM R.O.W.
 107 L.F. / 40 x 12 = 33 SHRUBS REQ.
 40 SHRUBS PROVIDED



PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	
TREES							
	QAB	5	Quercus alba / White Oak	B&B	2.5"	12-14'	
	OP	8	Quercus phellos / Willow Oak	B&B	2.5"	12-14'	
SHRUBS							
	DG	21	Deutzia gracilis / Slender Deutzia	#3		18-24"	
	ICBN	40	Ilex cornuta 'Burfordii Nana' / Dwarf Burford Holly	#3		18-21"	
	PLO	22	Prunus laurocerasus 'Otto Luyken' / Otto Luyken English Laurel	#7		18-21"	
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	SPACING
SHRUB AREAS							
	JHW	114	Juniperus horizontalis 'Wiltonii' / Blue Rug Juniper	#1			48" o.c.
GROUND COVERS							
	FR	40,794 sf	Festuca rubra / Red Fescue				Sod
	HX	48	Helleborus x / Hybrid Hellebore / Lenten Rose	#1			18" o.c.
	VMB	127	Vinca minor 'Bowles' / Bowles Periwinkle	#1			18" o.c.



LEE'S SUMMIT MEDICAL CENTER
 2100 SE BLUE PARKWAY
 LEE'S SUMMIT, MO 64063
 816-282-5000

FINAL DEVELOPMENT PLAN
 HCA LEE'S SUMMIT MEDICAL CENTER
 2000 SE SHENANDOAH DRIVE
 LEE'S SUMMIT, MO. 64063
 JACKSON COUNTY

NO.	DATE	DESCRIPTION

DRAWING TITLE
OVERALL LANDSCAPE PLAN

PROJECT NUMBER
 20240037

DRAWING NUMBER
DP-L1.0

Consultant:



1524 WILLIAMS DRIVE, SUITE 201, MURFREESBORO, TN 37129
(615) 622-7200 | WWW.CATALYST-DG.COM



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**SITE & BRIDGE
EARLY RELEASE
PACKAGE**

HCA - LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHS

FACILITY NUMBER:
097240009

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 2024/09/19
SCALE: 1:30
DRAWN: AP
REVIEWED: WB
JOB NUMBER: 6406.24

DETAILED
LANDSCAPE PLAN

DP-L1.1

LANDSCAPE KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
L1	PLANTING BED LIMITS	1 / L2.0
L2	IRRIGATION LIMITS	NOTES / L2.0
L3	AREA TO BE SEEDED	
L4	AREA TO BE SODDED	
L5	AREA TO BE 4'-6" RIVER ROCK	

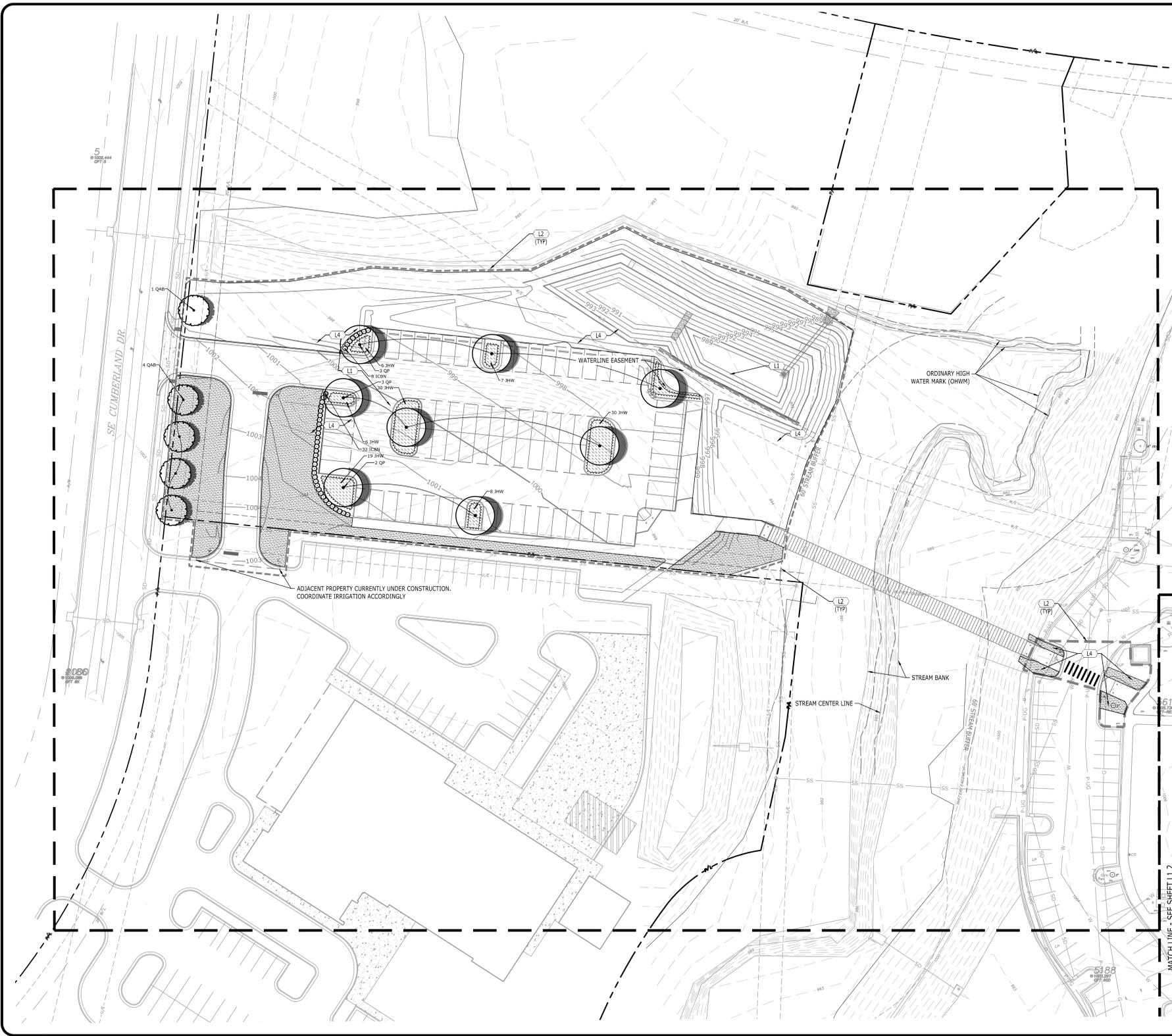
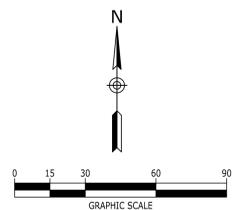
LEGEND	
LIMITS OF IRRIGATION	
STORM PIPE & INLET	
PROPOSED CONTOUR ELEV.	

PLANT SCHEDULE		
SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	QAB	Quercus alba / White Oak
	QP	Quercus phellos / Willow Oak
SHRUBS		
	DG	Deutzia gracilis / Slender Deutzia
	ICBN	Ilex cornuta 'Burfordii Nana' / Dwarf Burford Holly
	PLO	Prunus laurocerasus 'Otto Luyken' / Otto Luyken English Laurel
SHRUB AREAS		
	JHW	Juniperus horizontalis 'Wiltonii' / Blue Rug Juniper
GROUND COVERS		
	FR	Festuca rubra / Red Fescue
	HX	Helleborus x / Hybrid Hellebore / Lenten Rose
	VMB	Vinca minor 'Bowles' / Bowles Periwinkle

SEE L1.0 FOR PLANT SIZES AND QUANTITIES



Know what's below.
Call before you dig.



P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp (Imp)\Construction\20240037_LAN_dwg-DP-L1.DWG-DP-L1.DETAILED LANDSCAPE PLAN Oct. 08. 2024 mlbissard



LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
816-282-5000

FINAL DEVELOPMENT PLAN
HCA LEE'S SUMMIT
MEDICAL CENTER
2000 SE SHENANDOAH DRIVE
LEE'S SUMMIT, MO. 64063
JACKSON COUNTY

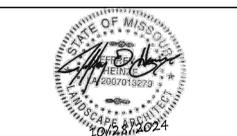
NO.	DATE	DESCRIPTION

DRAWING TITLE
DETAILED
LANDSCAPE PLAN
PROJECT NUMBER
20240037
DRAWING NUMBER
DP-L1.1

6/19/2024 2:05:24 PM
Autodesk Docs\16462_240001_HCA - LSC Med Surg Expansion\16462_240001_HCA - LSC Med Surg Expansion.rvt



Devenney Group Ltd., Architects
 6900 East Camelback Road
 Suite 500
 Scottsdale, AZ 85251
 T: 602.943.8950
 www.devenneygroup.com



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SITE & BRIDGE EARLY RELEASE PACKAGE

HCA - LEE'S SUMMIT MEDICAL CENTER
 2100 SE BLUE PKWY
 LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
 CITY OF LEE'S SUMMIT BUILDING DEPT.
 MISSOURI DHS

FACILITY NUMBER:
 097240009

AGENCY APPROVALS:
 AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 2024/09/19
 SCALE: 1:20
 DRAWN: AP
 REVIEWED: WB
 JOB NUMBER: 6406.24

DETAILED LANDSCAPE PLAN

DP-L1.2

LANDSCAPE KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
L1	PLANTING BED LIMITS	1 / L2.0
L2	IRRIGATION LIMITS	NOTES / L2.0
L3	AREA TO BE SEEDED	
L4	AREA TO BE SODDED	
L5	AREA TO BE 4'-6" RIVER ROCK	

LEGEND	
LIMITS OF IRRIGATION	
STORM PIPE & INLET	
PROPOSED CONTOUR ELEV.	

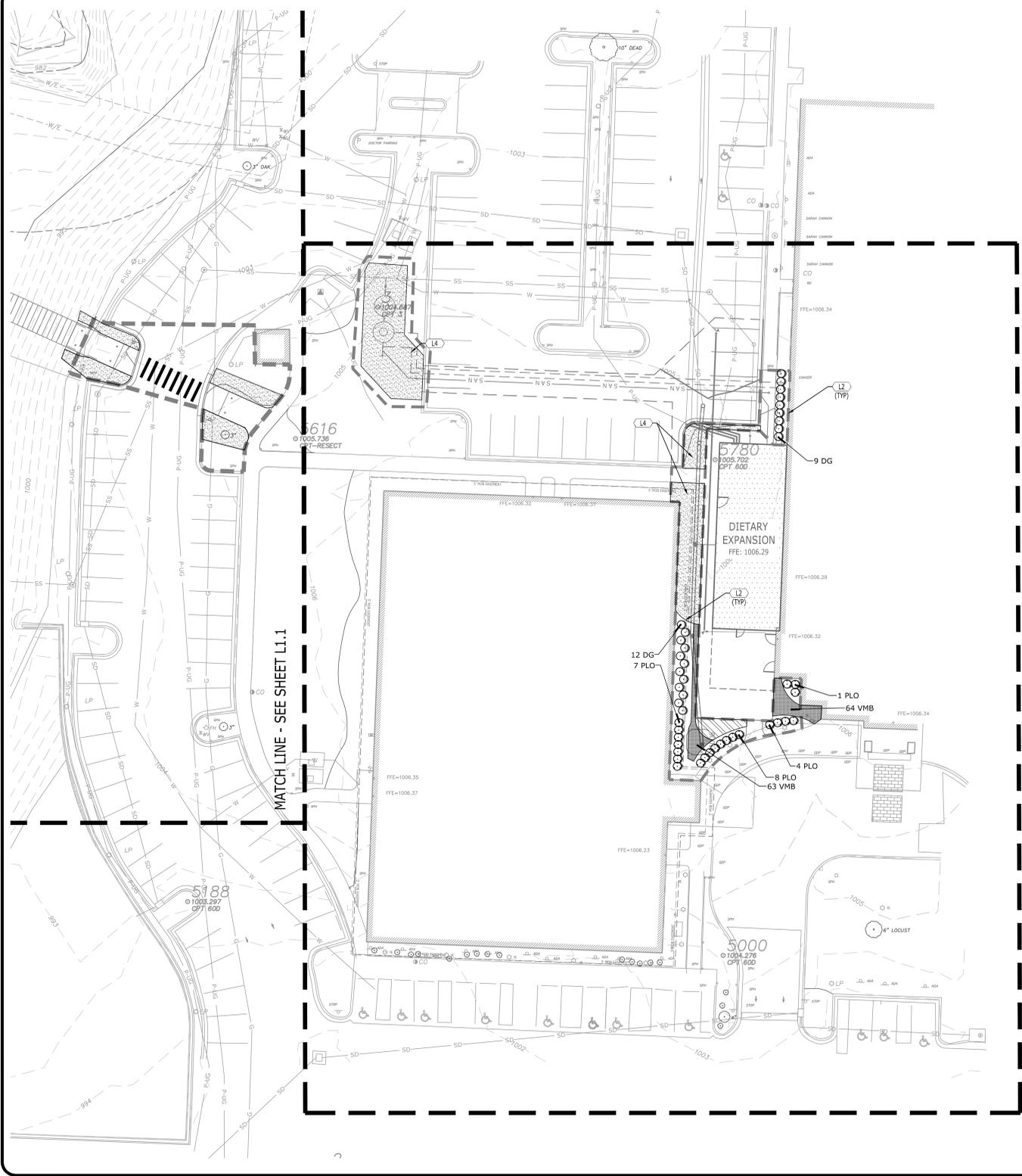
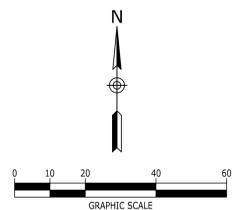
PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	QAB	Quercus alba / White Oak
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	DG	Deutzia gracilis / Slender Deutzia
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	PLO	Prunus laurocerasus 'Otto Luyken' / Otto Luyken English Laurel
SHRUB AREAS		
	JHW	Juniperus horizontalis 'Wiltonii' / Blue Rug Juniper
GROUND COVERS		
	FR	Festuca rubra / Red Fescue
	HX	Helleborus x / Hybrid Hellebore / Lenten Rose
	VMB	Vinca minor 'Bowles' / Bowles Periwinkle

SEE L1.0 FOR PLANT SIZES AND QUANTITIES



Know what's below.
 Call before you dig.



P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center - Med Surg Exp\DWG\Construction\20240037_LAN.dwg-DP-L1.2 DETAILED LANDSCAPE PLAN Oct. 08. 2024 mlbissard

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**SITE & BRIDGE
EARLY RELEASE
PACKAGE**

HCA - LEE'S SUMMIT
 MEDICAL CENTER
 2100 SE BLUE PKWY
 LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
097240009

AGENCY APPROVALS:
AGENCY

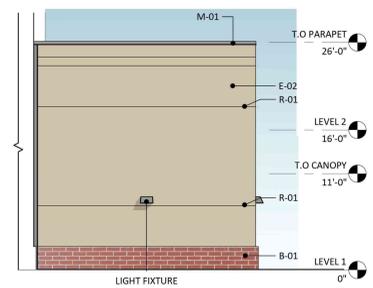
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REV #	DESCRIPTION	DATE

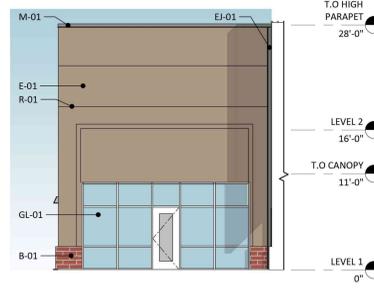
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DRAWN:
REVIEWED:
JOB NUMBER: 6406.24

**EXTERIOR BUILDING
ELEVATIONS**

AE201



**1 NORTH ELEVATION - LEVEL 1 -
DIETARY.**
1/8" = 1'-0"



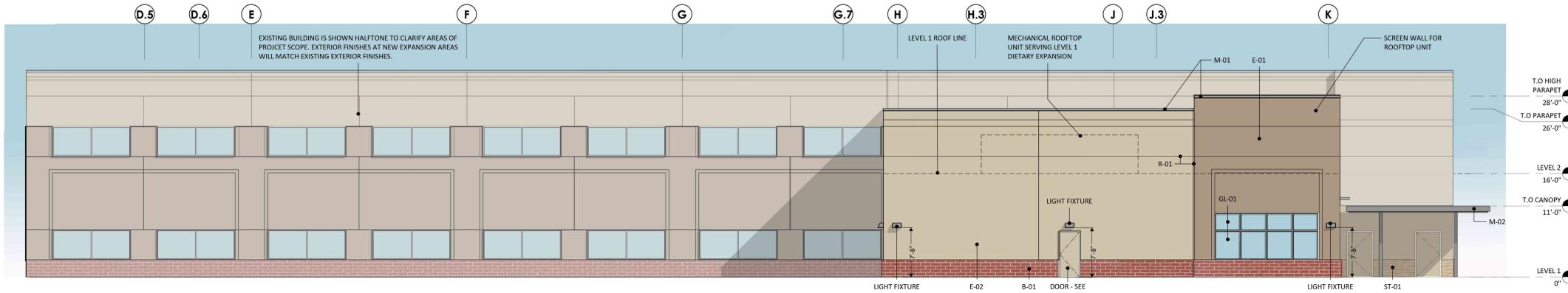
**2 SOUTH ELEVATION - LEVEL 1 -
DIETARY.**
1/8" = 1'-0"



**3 SOUTH ELEVATION - LEVEL 1 -
DIETARY CANOPY.**
1/8" = 1'-0"

MATERIAL LEGEND

GL-01	VISION INSULATED GLAZING UNIT
PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING
GL-02	SPANDREL INSULATED GLAZING UNIT
PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING
E-01	EXTERIOR INSULATION FINISH SYSTEM COLOR 1
PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING
E-02	EXTERIOR INSULATION FINISH SYSTEM COLOR 2
PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING
B-01	THIN BRICK VENEER
PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING
ST-01	STONE VENEER
PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING
M-01	PREFINISHED METAL COPING
PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING
M-02	METAL CANOPY
PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING
R-01	EIFS REVEAL
PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING
EJ-01	EXPANSION JOINT
PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING



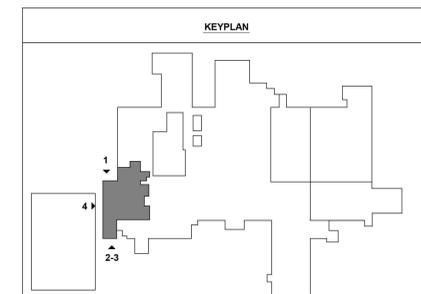
4 WEST ELEVATION - LEVEL 1 - DIETARY.
1/8" = 1'-0"



6 DIETARY EXPANSION - WEST VIEW



5 OUTDOOR DINING VIEW



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Consultant:

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**INPATIENT BED
EXPANSION**

HCA - LEE'S SUMMIT
 MEDICAL CENTER
 2100 SE BLUE PKWY
 LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
 CITY OF LEE'S SUMMIT BUILDING DEPT.
 MISSOURI DHSS

FACILITY NUMBER:
 097240009

AGENCY APPROVALS:
 AGENCY

REVISIONS

REV #	DESCRIPTION	DATE

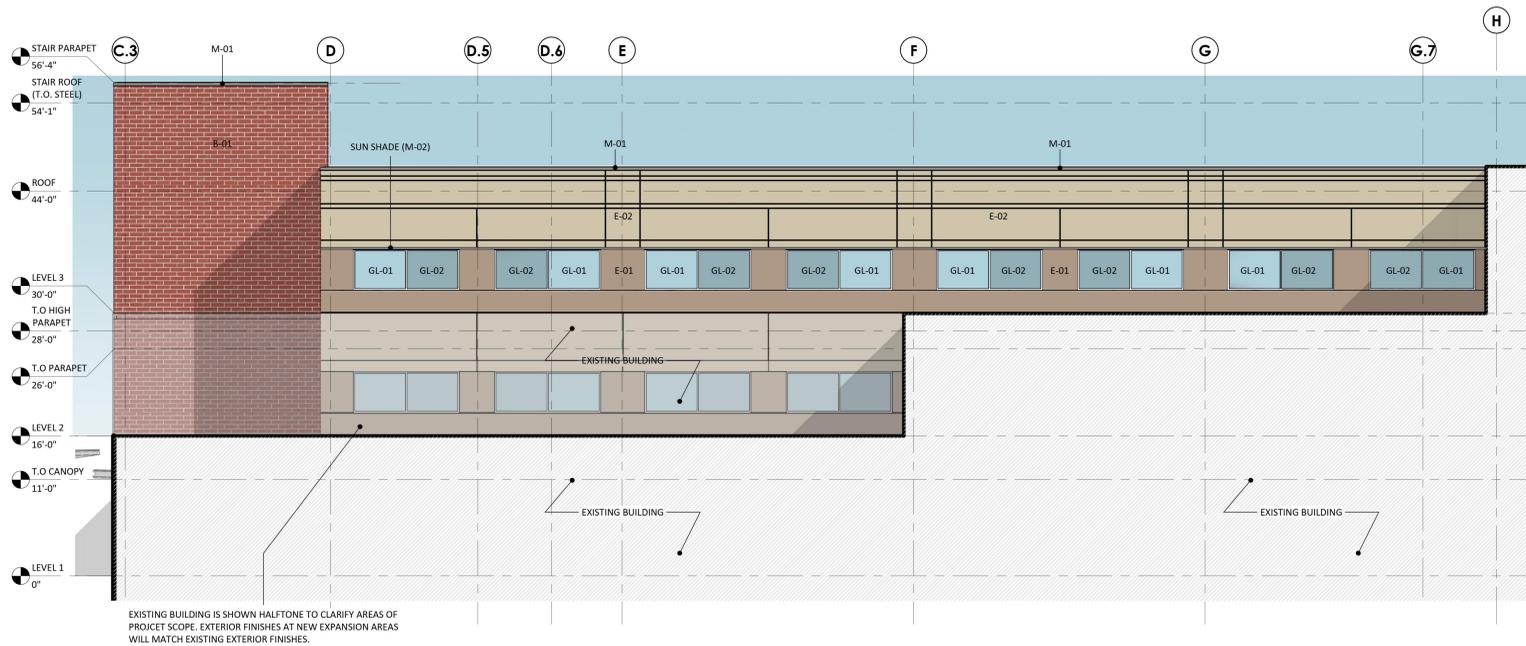
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 REVIEWED:
 JOB NUMBER: 6406.24

**EXTERIOR BUILDING
ELEVATIONS**

AE202

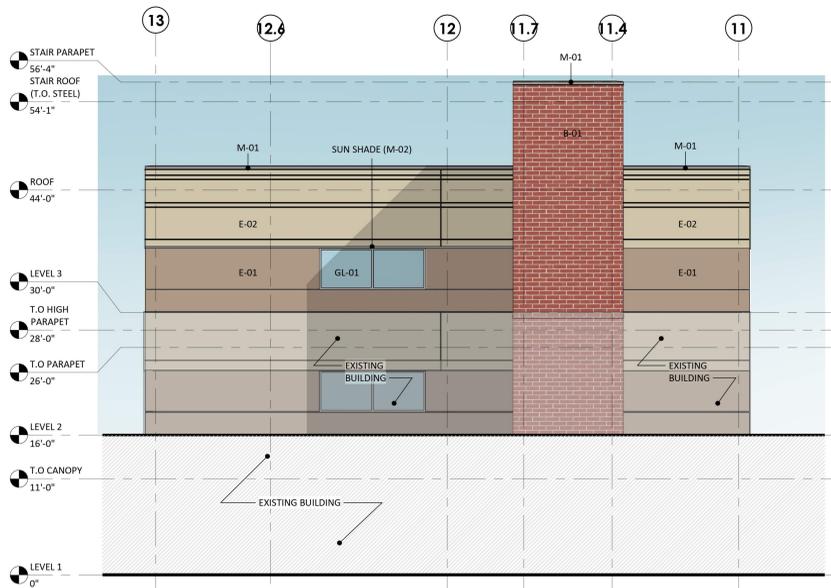
MATERIAL LEGEND

	GL-01 PRODUCT: VISION INSULATED GLAZING UNIT MFR: TBD FINISH: MATCH EXISTING
	GL-02 PRODUCT: SPANDREL INSULATED GLAZING UNIT MFR: TBD FINISH: MATCH EXISTING
	E-01 PRODUCT: EXTERIOR INSULATION FINISH SYSTEM COLOR 1 MFR: TBD FINISH: MATCH EXISTING
	E-02 PRODUCT: EXTERIOR INSULATION FINISH SYSTEM COLOR 2 MFR: TBD FINISH: MATCH EXISTING
	B-01 PRODUCT: THIN BRICK VENEER MFR: TBD FINISH: MATCH EXISTING
	ST-01 PRODUCT: STONE VENEER MFR: TBD FINISH: MATCH EXISTING
	M-01 PRODUCT: PREFINISHED METAL COPING MFR: TBD FINISH: MATCH EXISTING
	M-02 PRODUCT: METAL CANOPY MFR: TBD FINISH: MATCH EXISTING
	R-01 PRODUCT: EIFS REVEAL MFR: TBD FINISH: MATCH EXISTING
	EJ-01 PRODUCT: EXPANSION JOINT MFR: TBD FINISH: MATCH EXISTING



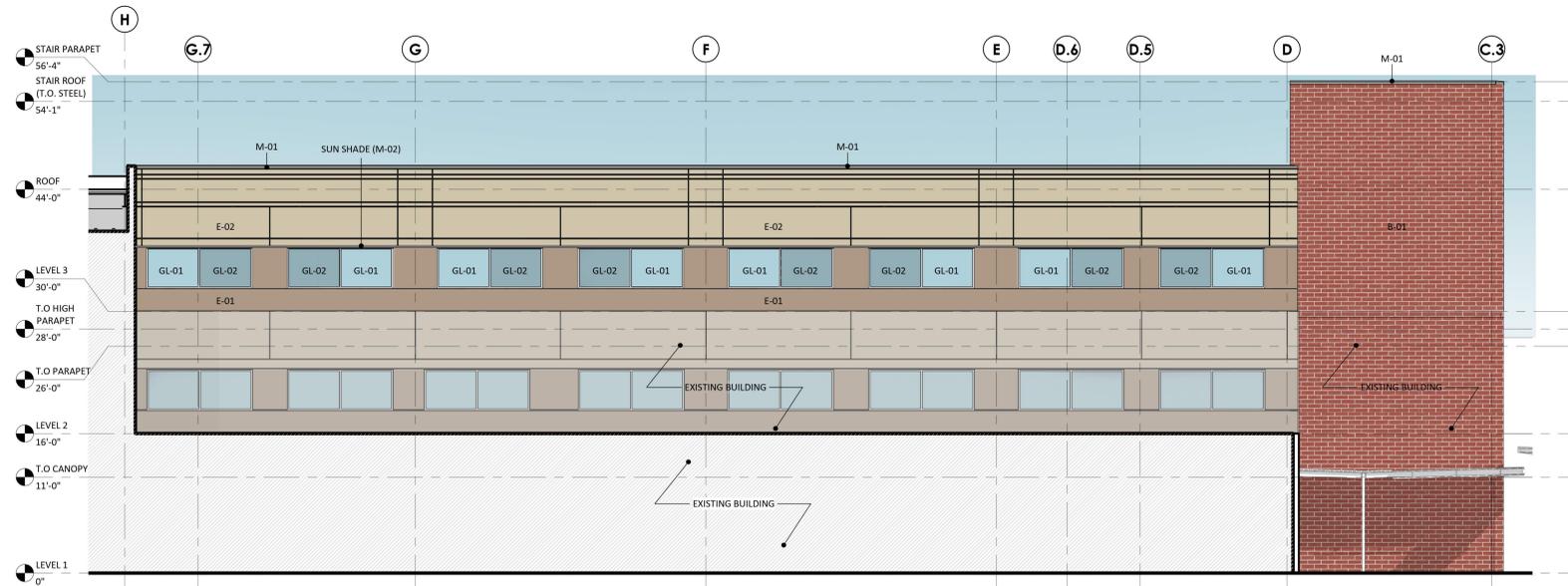
1 WEST ELEVATION - MED SURG (16-BED UNIT)

1/8" = 1'-0"



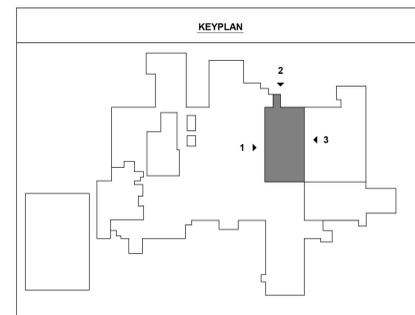
2 NORTH ELEVATION - MED SURG (16-BED UNIT)

1/8" = 1'-0"



3 EAST ELEVATION - MED SURG (16-BED UNIT)

1/8" = 1'-0"



Autodesk Docs://6406.24.0001 - HCA - LSC Med Surg Expansion - 07/24/2024 12:38:23 PM

Consultant:

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FACILITY NUMBER:
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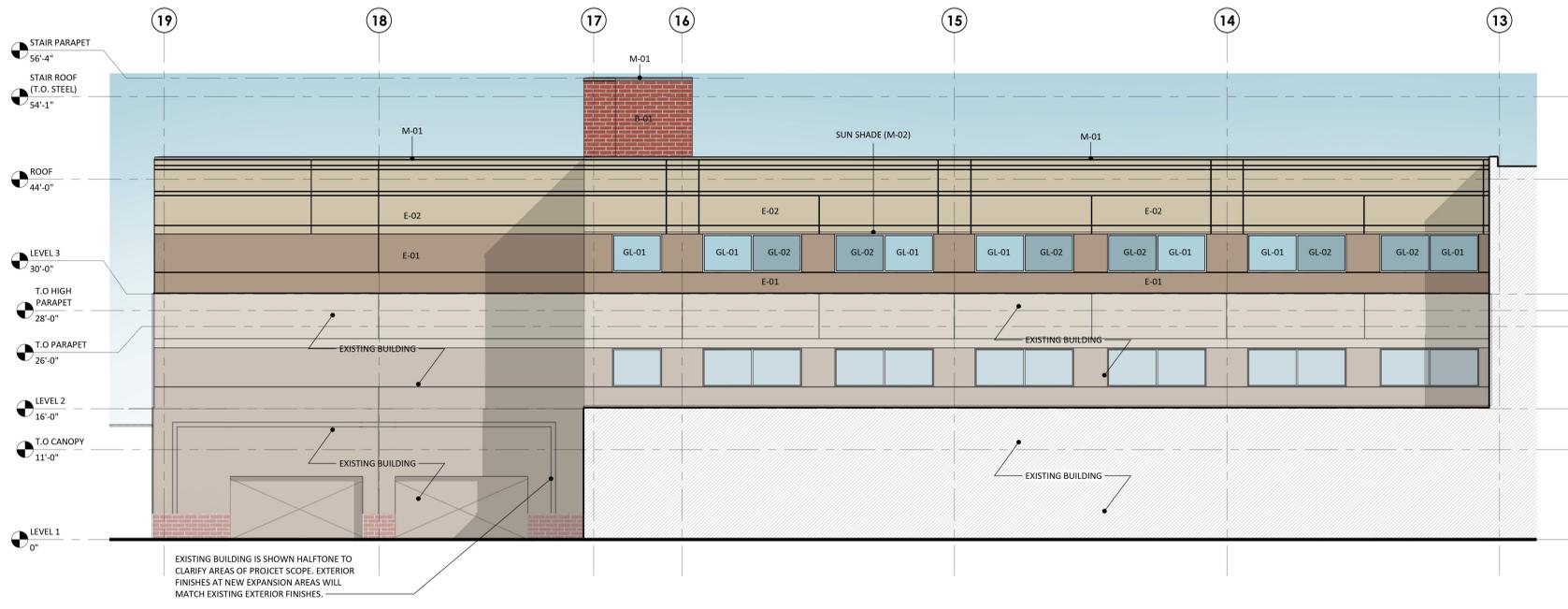
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 DRAWN:
 REVIEWED:
 JOB NUMBER: 6406.24

**EXTERIOR BUILDING
ELEVATIONS**

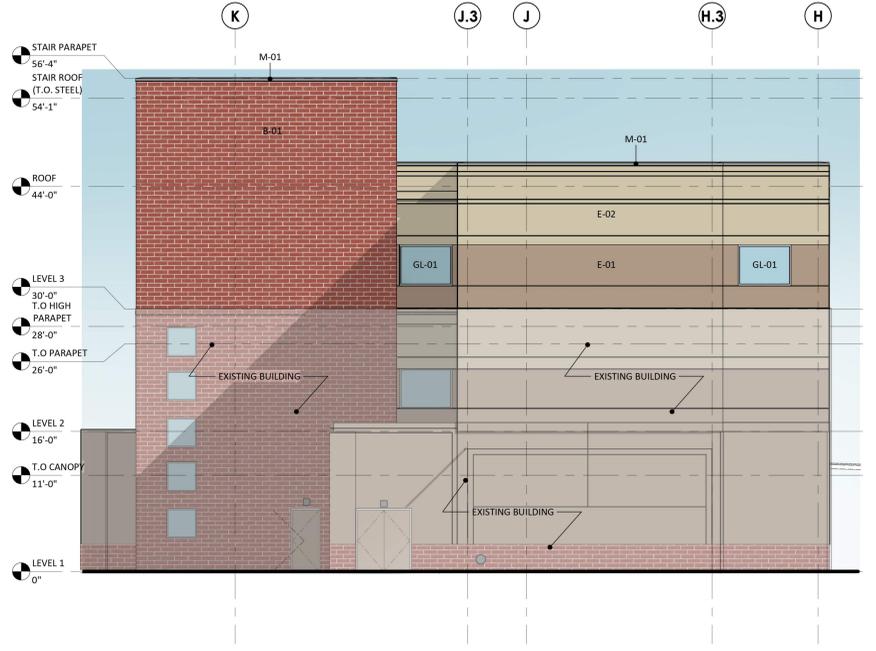
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MATERIAL LEGEND

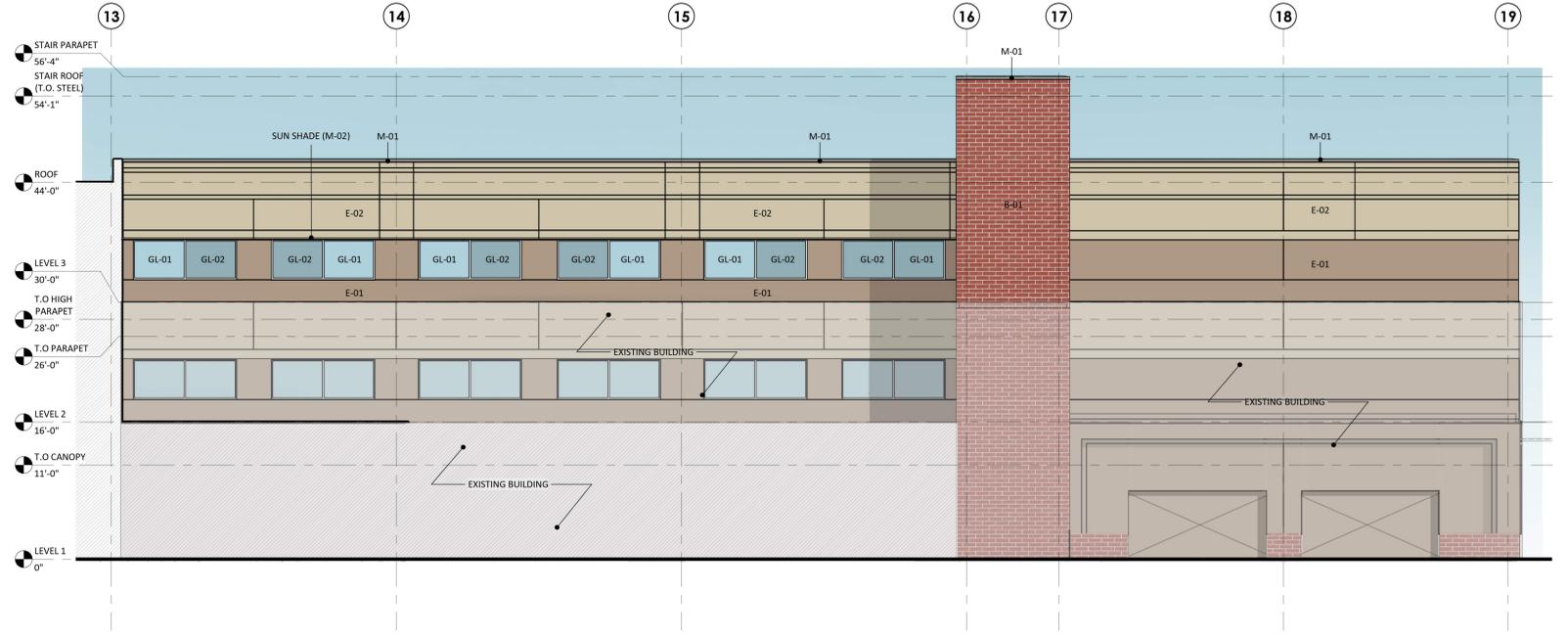
	GL-01 PRODUCT: VISION INSULATED GLAZING UNIT MFR: TBD FINISH: MATCH EXISTING		GL-02 PRODUCT: SPANDREL INSULATED GLAZING UNIT MFR: TBD FINISH: MATCH EXISTING
	E-01 PRODUCT: EXTERIOR INSULATION FINISH SYSTEM COLOR 1 MFR: TBD FINISH: MATCH EXISTING		E-02 PRODUCT: EXTERIOR INSULATION FINISH SYSTEM COLOR 2 MFR: TBD FINISH: MATCH EXISTING
	B-01 PRODUCT: THIN BRICK VENEER MFR: TBD FINISH: MATCH EXISTING		ST-01 PRODUCT: STONE VENEER MFR: TBD FINISH: MATCH EXISTING
	M-01 PRODUCT: PREFINISHED METAL COPING MFR: TBD FINISH: MATCH EXISTING		M-02 PRODUCT: METAL CANOPY MFR: TBD FINISH: MATCH EXISTING
	B-02 PRODUCT: EIFS REVEAL MFR: TBD FINISH: MATCH EXISTING		E-03 PRODUCT: EXPANSION JOINT MFR: TBD FINISH: MATCH EXISTING



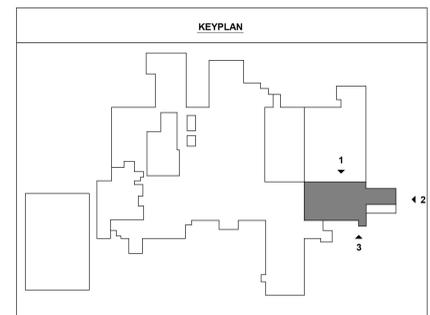
1 NORTH ELEVATION - MED SURG (12-BED UNIT)
 1/8" = 1'-0"



2 EAST ELEVATION - MED SURG (12-BED UNIT)
 1/8" = 1'-0"



3 SOUTH ELEVATION - MED SURG (12-BED UNIT)
 1/8" = 1'-0"



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A. SUPPLEMENTAL GENERAL CONDITIONS

- THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATION THAT IS COMPLETE WITH ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIAL AND LABOR SUPERVISION AND SERVICE NECESSARY SO AS TO PROVIDE A COMPLETE, FUNCTIONING ELECTRICAL SYSTEM IN SAFE WORKING ORDER.
- SYMBOLS FOR VARIOUS ELEMENTS AND SYSTEMS ARE SHOWN ON THE DRAWINGS. SHOULD THERE BE ANY DOUBT REGARDING THE MEANING OR INTENT OF THE SYMBOLS USED, AN INTERPRETATION SHALL BE OBTAINED FROM THE ARCHITECT IN WRITING. THE DECISION OF THE ARCHITECT SHALL BE FINAL.
- IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO EXAMINE THE CONTRACT DOCUMENTS CAREFULLY BEFORE SUBMITTING THEIR BID, WITH PARTICULAR ATTENTION TO ERRORS, OMISSIONS, CONFLICTS WITH PROVISIONS OF LAWS AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS, AND AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTS. ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION. SHOULD ANY OF THESE ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST, THE CONTRACTOR SHALL HAVE THEM EXPLAINED AND ADJUSTED IN WRITING BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK; OTHERWISE, THE CONTRACTOR SHALL AT THEIR OWN EXPENSE, SUPPLY THE PROPER MATERIALS AND LABOR TO MAKE GOOD ANY DAMAGE OR DEFECTS IN THEIR WORK OR IN THE WORK CONTRACTED THEREFROM, CAUSED BY SUCH DISCREPANCY.
- WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, THE BETTER QUALITY, OR LARGER SIZE SHALL PREVAIL UNLESS THE ARCHITECT INFORMS THE CONTRACTOR OTHERWISE IN WRITING.
- THE SCALE OF EACH DRAWING IS RELATIVELY ACCURATE. ANY DIMENSIONS SHOWN ARE APPROXIMATE TO CENTERLINE FROM ASSUMED BUILDING PERIMETER. THE CONTRACTOR SHALL OBTAIN THE NECESSARY DIMENSIONS FOR ANY EXACT TAKEOFFS FROM THE ARCHITECT. NO ADDITIONAL COST TO THE OWNER WILL BE CONSIDERED FOR FAILURE TO OBTAIN EXACT DIMENSIONS WHERE NOT CLEAR OR IN ERROR ON THE DRAWINGS. ANY DEVICE OR FIXTURE REQUIRED IN IMPROPERLY AND NOT POSITIONED ON IMPLIED CENTER LINES AS REQUIRED BY GOOD PRACTICE MUST BE REPOSITIONED AT NO COST TO THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR FILING AND PAYING ALL FEES AND OBTAINING NECESSARY PERMITS AND CERTIFICATES OF INSPECTION. THE CONTRACTOR SHALL DELIVER ALL CERTIFICATES AND INSPECTION TO OWNER/CONSTRUCTION MANAGER INCLUDING COPIES WITH MAINTENANCE MANUALS.
- ONLY EXPERIENCED CRAFTSMEN KNOWLEDGEABLE IN THEIR RESPECTIVE TRADE SHALL PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA STANDARD 70 (NATIONAL ELECTRICAL CODE). CONTRACTOR SHALL ALSO CONFORM TO ALL APPLICABLE LOCAL CODES AND AMENDMENTS UNLESS OTHERWISE INDICATED. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL MEET NEMA AND ANSI STANDARDS. THEY SHALL ALSO BE LISTED/LABELED BY A NATIONALLY RECOGNIZED LABORATORY IN ACCORDANCE WITH NFPA 70. EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, AND WITH THEIR LISTING/LABELING REQUIREMENTS AND RESTRICTIONS.
- PROVIDE SHOP DRAWINGS FOR ENGINEER'S REVIEW FOR ALL ELECTRICAL EQUIPMENT, DEVICES, AND MATERIALS PROPOSED TO BE PROVIDED UNDER THIS CONTRACT. ANY DEVIATIONS FROM ITEMS SPECIFIED SHALL BE CLEARLY IDENTIFIED AND SEPARATELY SUBMITTED WITH A FORMAL SUBSTITUTION REQUEST. REFER TO SPECIFICATIONS (PROJECT MANUAL) FOR REQUIREMENTS.

B. ELECTRICAL EQUIPMENT

- PROVIDE AN IDENTIFICATION NAMEPLATE FOR EACH ELECTRICAL EQUIPMENT, APPURTENANCE DEPICTING THE DESIGNATION INDICATED ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- WEATHERPROOF ENCLOSURES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT, DEVICES AND APPURTENANCES (ALL SYSTEMS) INSTALLED OUTDOORS.
- COORDINATE AND SCHEDULE ALL POWER OUTAGES WITH OWNER. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE ALLOWED SPACE.
- DO NOT USE PERMANENT INK WHEN MAKING FIELD MARKINGS OR TEMPORARY CIRCUIT LABELS ON PANELS. CONTRACTOR SHALL USE REMOVABLE TAPE/TAGS FOR ALL TEMPORARY MARKINGS AND SHALL REMOVE THESE TEMPORARY MARKINGS AT THE CONCLUSION OF THIS PROJECT.

C. SITE WORK

- COORDINATE WITH THE SITE WORK FOR THE LOCATION, DIMENSIONS AND ELEVATION OF ALL DUCTBANKS/SERVICE CONDUITS EXTERNAL TO THE BUILDING PRIOR TO INSTALLATION OF ALL DUCTBANKS/SERVICE CONDUITS INTERNAL TO THE BUILDING.
- COORDINATE ALL ELECTRICAL UTILITY SERVICE REQUIREMENTS WITH UTILITIES REPRESENTATIVE PRIOR TO COMMENCING ANY ELECTRICAL SITE WORK. CONTRACTOR SHALL SCHEDULE ALL NECESSARY MEETINGS BETWEEN UTILITY COMPANIES CONSTRUCTION FOREMAN, ELECTRICAL SUBCONTRACTORS, AND VARIOUS SUBCONTRACTORS RESPONSIBLE FOR SITE CONSTRUCTION PRIOR TO ELECTRICAL ROUGH-IN.

D. CONDUIT & RACEWAY

- ALL WORK SHALL BE COORDINATED SO THAT INTERFERENCES ARE AVOIDED. PROVIDE ALL NECESSARY OFFSETS IN CONDUITS, RACEWAYS, ETC., REQUIRED TO PROPERLY INSTALL THE WORK. EXPOSED WORK MUST BE KEPT AS CLOSE AS POSSIBLE TO WALLS, CEILINGS, COLUMNS, ETC., SO AS TO TAKE UP MINIMUM AMOUNT OF SPACE. ALL OFFSETS, FITTINGS, ETC., REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. WORK SHALL BE COORDINATED WITH OTHER TRADES.
- CONDUIT RUNS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER NFPA 70 AND FOR COORDINATION WITH OTHER CONTRACTORS.
- PENETRATIONS OF WALLS, FLOORS, AND ROOFS FOR THE PASSAGE OF ELECTRICAL RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OR RECORD PRIOR TO THE COMMENCEMENT OF WORK. ALL SUCH PENETRATIONS SHALL BE PROPERLY SEALED OFF AFTER INSTALLATION OF RACEWAY SO AS TO MAINTAIN THE STRUCTURAL, WATER PROOF, AND FIRE PROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED.
- SEAL ALL CONDUITS THAT PENETRATE THE BASEMENT FLOOR SLAB TO MAKE THEM WATER TIGHT. THE CONDUITS SHALL BE DRIED PRIOR TO INSTALLATION OF WIRE/CABLE AND SHALL BE SEALED AT TERMINATIONS.
- ALL PENETRATIONS THROUGH FIRE RATED WALLS OR PARTITIONS SHALL BE MADE IN ACCORDANCE WITH U.L. "FIRE RESISTANCE DIRECTORY". PENETRATIONS SHALL BE SLEEVED AND SEALED WITH A UL APPROVED FIRE RATED SEALANT. REFER TO ARCHITECTURAL PLANS FOR FIRE RATED WALLS.
- ALL EMPTY CONDUIT SYSTEMS SHALL CONTAIN A FULL WIRE FOR FUTURE PULLING OF CONDUCTORS.

E. BRANCH CIRCUITS AND FEEDERS

- CIRCUITING IS SHOWN DIAGRAMMATICALLY. HOMERUNS SHALL BE COMBINED WHERE POSSIBLE IN ACCORDANCE TO NFPA 70.
- UNLESS OTHERWISE INDICATED, ALL CIRCUITS 100' OR LESS SHALL BE MINIMUM #12 AWG WIRE SIZE. CIRCUITS OVER 100' BUT LESS THAN 200' SHALL BE MINIMUM #10 AWG WIRE SIZE. CIRCUITS OVER 200' BUT LESS THAN 300' SHALL BE MINIMUM #8 AWG WIRE SIZE.
- UNLESS OTHERWISE INDICATED, ALL CONDUCTORS SHALL BE COPPER, 86% CONDUCTIVITY CONTINUOUS FROM OUTLET TO OUTLET.
- UNLESS OTHERWISE INDICATED, CONDUCTOR SIZES #12 AWG AND #10 AWG SHALL BE SOLID. CONDUCTOR SIZES #8 AWG AND LARGER MAY BE STRANDED.
- A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS FOR GROUNDING WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY, OR A CABLE ARMOR OR SHEATH SHALL NOT BE USED AS THE ONLY EQUIPMENT GROUNDING CONDUCTOR.
- HOMERUN CIRCUITS FOR ISOLATED RECEPTACLES SHALL BE SEPARATED FROM OTHER CIRCUITS. EACH CIRCUIT SHALL HAVE ITS OWN NEUTRAL CONDUCTOR AND EACH HOMERUN SHALL CONTAIN AN ISOLATED AND EQUIPMENT GROUND CONDUCTOR.

F. WIRING DEVICES

- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL WALL AND FLOOR MOUNTED DEVICES, LIGHT SWITCHES, CONTROLLERS, POKE-THRU, ETC., ALL WALL/FLOOR MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
- COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL ELEVATIONS, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
- WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN NEAR DATA OUTLETS SHALL BE LOCATED WITHIN SIX (6) INCHES OF THE DATA OUTLET. LOCATE AT SAME MOUNTING HEIGHT UNLESS NOTED OTHERWISE.
- VERIFY THE EXACT POWER CONNECTION TYPE AND NEMA CONFIGURATION OF RECEPTACLES FOR EQUIPMENT FURNISHED BY THE OWNER, OTHER TRADES, OR UNDER A SEPARATE SECTION OF THIS CONTRACT PRIOR TO ELECTRICAL ROUGH-IN.
- ALL RECEPTACLES LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE HOUSED IN ENCLOSURES THAT ARE RATED WEATHER-PROOF-WHILE-IN-USE AND SHALL BE EQUIPPED WITH GFCI FOR PERSONNEL PROTECTION. ALL GFCI RECEPTACLES SHALL BE CONNECTED SO THAT ALL DEVICES ON THE SAME CIRCUIT AS THE GFCI RECEPTACLE DO NOT DEENERGIZE UPON TRIPPING. ALL GFCI RECEPTACLES SHALL INCLUDE A LOCK-OUT FUNCTION TO PROTECT AGAINST THE USE OF MISWIRED DEVICES OR DEVICES THAT HAVE BEEN DAMAGED DUE TO DISABLING SURGES.

G. LIGHTING SYSTEM

- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION OF ALL CEILING ELEMENTS (LIGHTS, SPRINKLERS, DIFFUSERS, ETC.). ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
- PROVIDE AND INSTALL ALL SUPPORTS FOR LIGHT FIXTURES. SUPPORTS SHALL BE INDEPENDENT OF THE CEILING GRID SUPPORT SYSTEM.
- LIGHT SWITCHES / OCCUPANCY SENSORS LOCATED IN A ROOM SHALL CONTROL ALL THE LIGHT FIXTURES IN THAT ROOM UNLESS NOTED OTHERWISE. CONTRACTOR SHALL GANG TOGETHER ALL SWITCHES/DIMMERS UNDER A SINGLE COVER PLATE IN ALL AREAS THAT REQUIRE MORE THAN ONE SWITCH TO CONTROL ELECTRICAL DEVICES. IN INSTANCES WHERE A TRACK LIGHTING SYSTEM, DIMMING SYSTEM, AND/OR LIGHTING CONTROL SYSTEM IS SPECIFIED, THE CONTRACTOR SHALL COORDINATE ALL NECESSARY COMPONENTS OF SUCH SYSTEM(S) WITH THE MANUFACTURER PRIOR TO BID AND INCLUDE ALL NECESSARY ACCESSORIES TO INSTALL A COMPLETE AND FUNCTIONING SYSTEM.

H. MECHANICAL & PLUMBING COORDINATION

- REFERENCE THE MECHANICAL AND PLUMBING DRAWINGS FOR ALL EQUIPMENT NEEDING ELECTRICAL CONNECTIONS. MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT.
- VERIFY EXACT LOCATION OF ALL POWER CONNECTIONS AND CONTROL DEVICES WITH OTHER TRADES AND MANUFACTURERS SHOP DRAWINGS BEFORE CONSTRUCTION. COORDINATE ALL REQUIRED ENERGY MANAGEMENT SYSTEM POINTS AND CONTACT CONNECTIONS TO ENSURE THE COMPLETE AND PROPER OPERATION OF ALL SYSTEMS.
- ALL FUSED SWITCH AND/OR CIRCUIT BREAKERS SERVING EQUIPMENT SHALL HAVE PROVISIONS FOR HANDLE LOCKS.
- ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BEAR AN HACR RATING.
- ALL DISCONNECTS DOWN STREAM OF VPDS SHALL BE PROVIDED WITH AUXILIARY CONTACTS TO SHUT DOWN UPSTREAM FID WHENS DOWNSTREAM DEVICES ARE OPENED.
- COORDINATE BETWEEN TRADES AND PROVIDE CONTROL POWER FOR ALL VAV BOXES/DAMPERS/ETC. AS REQUIRED TO ENSURE A COMPLETE, FULLY FUNCTIONAL HVAC SYSTEM. SHOULD AN EXACT CIRCUIT NUMBER NOT BE INDICATED ON ELECTRICAL DRAWINGS, CONTRACTOR SHALL UTILIZE AVAILABLE 20A/VP SPACE FROM THE NEAREST 208Y/120V PANEL OR FROM BUILDING CONTROL POWER DISTRIBUTION SYSTEM.

I. SPECIAL SYSTEMS (i.e. DATA/PHONE/SERVOCONTROL)

- CONTRACTOR SHALL PROVIDE AND INSTALL AN EMPTY CONDUIT RACEWAY SYSTEM FOR SPECIAL SYSTEM. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN VENDOR SHOP DRAWINGS FROM THE VENDOR/INSTALL PRIOR TO ELECTRICAL ROUGH-IN. CONTRACTOR SHALL COORDINATE, PROVIDE AND INSTALL ALL REQUIRED RACEWAYS AND DEVICE BACK BOXES AS REQUIRED BY VENDOR SHOP DRAWINGS. CONTRACTOR TO PROVIDE A LINE ITEM ALLOWANCE IN BID AS NECESSARY TO COVER THIS SCOPE. REFER TO T SERIES AND AV SERIES DRAWINGS FOR ADDITIONAL REQUIREMENTS.

POWER SYMBOLS LEGEND		
ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.		
SYMBOL	DESCRIPTION	MNTG. HT. UNO
	SINGLE RECEPTACLE - 20A/125V/2P/3WG NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE - 20A/125V/2P/3WG NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	18" AFF
	DUPLEX RECEPTACLE GFCI - 20A/125V/2P/3WG NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE MOUNTED HORIZONTALLY	18" AFF
	DUPLEX RECEPTACLE, GFCI, TAMPER RESISTANT, WEATHER RESISTANT, HOUSED IN A "WEATHERPROOF-WHILE-IN-USE" ENCLOSURE - 20A/125V/2P/3WG NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP	8" AFC OR 42" AFF
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP ON EMERGENCY CIRCUIT	8" AFC OR 42" AFF
	QUADRAPLEX RECEPTACLE (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	18" AFF
	QUADRAPLEX RECEPTACLE ON EMERGENCY CIRCUIT (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	18" AFF
	QUADRAPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	8" AFC OR 42" AFF
	QUADRAPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP ON EMERGENCY CIRCUIT (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	8" AFC OR 42" AFF
	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)	18" AFF
	FLOOR MOUNTED RECEPTACLE IN FLOOR BOX OR POKE-THRU DEVICE - FLUSH MOUNTED, UNO	FLUSH W/ FLR SURFACE
	CEILING MOUNTED RECEPTACLE - CONFIGURATION UNO	FLUSH W/ CLG SURFACE
	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	AS REQUIRED
	WALL MOUNTED JUNCTION BOX FOR DATA/TELEPHONE - SIZE & MOUNTING AS REQUIRED	AS REQUIRED
	POWER POLE	-
	PULGMOLD	AS REQUIRED
	DISCONNECT SWITCH (X=FRAME SIZE, Y=FRAME SIZE, Z=NUMBER OF POLES)	AS REQUIRED
	DISCONNECT SWITCH NON-FUSED (X=FRAME SIZE, Z=NUMBER OF POLES)	AS REQUIRED
	ENCLOSED CIRCUIT BREAKER (X=TRIP RATING, Z=NUMBER OF POLES)	AS REQUIRED
	MOTOR STARTER FVNR UNO (#=NEMA SIZE)	AS REQUIRED
	COMBINATION MOTOR CONTROLLER / DISCONNECT SWITCH	AS REQUIRED
	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD AND PILOT LIGHT	AS REQUIRED
	EMERGENCY POWER OFF BUTTON - WALL MOUNTED	AS REQUIRED
	CIRCUIT CONDUCTOR INDICATION (EQUIPMENT GROUND, NEUTRAL, PHASE)	-
	CIRCUIT HOMERUN TO PANELBOARD (2#12, 1#12G, 3#14C, 20A/1P CB UNO)	-
	CONDUIT INSTALLED IN CEILING SPACE OF FLOOR BELOW.	-
	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.	-
	MULTI-POLE DEVICE CIRCUIT NUMBERS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.	-
	208Y/120V PANELBOARD	-
	480Y/277V PANELBOARD	-
	208Y/120V DISTRIBUTION PANELBOARD	-
	480Y/277V DISTRIBUTION PANELBOARD	-
	ISOLATION PANEL	-
	SWITCHBOARD	-
	STEP-DOWN TRANSFORMER	-
	AUTOMATIC TRANSFER SWITCH	-
	BY-PASS / ISOLATION AUTOMATIC TRANSFER SWITCH	-
	GROUND BAR	-
	PATIENT GROUND BAR	-
	GENERAL ALARM PANEL	AS REQUIRED
	AUTOMATIC TRANSFER SWITCH ANNUNCIATOR PANEL	AS REQUIRED
	STAIR EXIT CONTROL PANEL	AS REQUIRED
	MEDICAL GAS ALARM PANEL - PANEL PROVIDED UNDER DIV 15	AS REQUIRED
	BUILDING AUTOMATION SYSTEM	AS REQUIRED
	FIRE ALARM ANNUNCIATOR PANEL	AS REQUIRED
	FIRE ALARM CONTROL PANEL	AS REQUIRED
	FIRE CONTROL PANEL	AS REQUIRED
	EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM CONTROL UNIT	AS REQUIRED
	ELEVATOR ANNUNCIATOR UNIT	AS REQUIRED
	MEDICAL GAS ALARM PANEL - PANEL PROVIDED UNDER DIV 15	AS REQUIRED

GENERAL NOTATIONS AND MOUNTING HEIGHTS

- NOTE 1: ALL MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE, UNLESS OTHERWISE INDICATED.
A) 48" AFF INDICATES TO TOP OF DEVICE.
B) 15" AFF INDICATES TO BOTTOM OF DEVICE.
C) 60" AFF INDICATES TO BOTTOM OF DEVICE.
D) 80" AFF INDICATES TO BOTTOM OF DEVICE.

- NOTE 2: CONFIRM ALL BACKBOX SIZE WITH VENDOR SHOP DRAWINGS PRIOR TO ELECTRICAL ROUGH-IN.

- LEGEND NOTES: DENOTES "SEE LEGEND NOTE NO. 2"
- EQUIPMENT (ID) NUMBER FOR FOOD SERVICE EQUIPMENT. REFER TO FOOD SERVICE DOCUMENTS FOR DEFINITION AND REQUIREMENTS.

- DENOTES REFERENCE DETAIL 02 ON DRAWING (SHEET) E7 01

- DENOTES REFERENCE ENLARGED DETAIL PLAN 02 ON DRAWING (SHEET) E5 01

- EQUIPMENT (ID) NUMBER FOR OWNER PROVIDED EQUIPMENT. REFER TO OWNER'S EQUIPMENT BOOK / F&E DOCUMENTS FOR DEFINITION AND REQUIREMENTS.

LIGHTNING PROTECTION

LIGHTNING PROTECTION SYSTEM IS A DELEGATED DESIGN. THESE DRAWINGS DO NOT INDICATE SYSTEM REQUIREMENTS. REFER TO THE SPECIFICATIONS (PROJECT MANUAL) FOR SYSTEM REQUIREMENTS. THESE DRAWINGS ARE INTENDED TO SHOW LOCATIONS OF EQUIPMENT FOR WHICH LIGHTNING PROTECTION WILL NEED TO COORDINATE WITH THE DESIGNER. DESIGNER SHALL PROVIDE ANY AND ALL DEVICES FOR A COMPLETE SYSTEM. PLANS TO BE SUBMITTED FOR AHJ APPROVAL SHALL BE PRODUCED BY A QUALIFIED INDIVIDUAL OR FIRM.

NFPA CLASS COMPONENTS: (75=>X) I OR II, (75-X) II (CHOOSE)

LIGHTING SYMBOLS LEGEND		
ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.		
SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	2x4' LIGHT FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	2x4' LIGHT FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
	2x4' LIGHT FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
	2x4' LIGHT FIXTURE WITH Bi-LEVEL SWITCHING. PROVIDE DUAL BALLAST/DRIVERS. BOTH BALLAST/DRIVERS ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	2x4' LIGHT FIXTURE WITH Bi-LEVEL SWITCHING. PROVIDE DUAL BALLAST/DRIVERS. ONE BALLAST/DRIVER ON NORMAL CIRCUIT AND ONE BALLAST/DRIVER ON LIFE SAFETY CIRCUIT.	SEE FIXTURE SCHEDULE
	2x4' LIGHT FIXTURE WITH Bi-LEVEL SWITCHING. PROVIDE DUAL BALLAST/DRIVERS. ONE BALLAST/DRIVER ON NORMAL CIRCUIT AND ONE BALLAST/DRIVER ON CRITICAL CIRCUIT.	SEE FIXTURE SCHEDULE
	2x2' LIGHT FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	2x2' LIGHT FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
	2x2' LIGHT FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
	2x2' LIGHT FIXTURE WITH Bi-LEVEL SWITCHING. PROVIDE DUAL BALLAST/DRIVERS. BOTH BALLAST/DRIVERS ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	2x2' LIGHT FIXTURE WITH Bi-LEVEL SWITCHING. PROVIDE DUAL BALLAST/DRIVERS. ONE BALLAST/DRIVER ON NORMAL CIRCUIT AND ONE BALLAST/DRIVER ON LIFE SAFETY CIRCUIT.	SEE FIXTURE SCHEDULE
	2x2' LIGHT FIXTURE WITH Bi-LEVEL SWITCHING. PROVIDE DUAL BALLAST/DRIVERS. ONE BALLAST/DRIVER ON NORMAL CIRCUIT AND ONE BALLAST/DRIVER ON CRITICAL CIRCUIT.	SEE FIXTURE SCHEDULE
	WALL MOUNTED LINEAR FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	WALL MOUNTED LINEAR FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
	WALL MOUNTED LINEAR FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
	RECESSED/SURFACE MOUNTED LINEAR FIXTURE ON NORMAL CIRCUIT.	SEE NOTE 2
	RECESSED/SURFACE MOUNTED LINEAR FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE NOTE 2
	RECESSED/SURFACE MOUNTED LINEAR FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE NOTE 2
	RECESSED/SURFACE DOWNLIGHT FIXTURE ON NORMAL CIRCUIT.	SEE NOTE 2
	RECESSED/SURFACE DOWNLIGHT FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE NOTE 2
	RECESSED/SURFACE DOWNLIGHT FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE NOTE 2
	WALL MOUNTED FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	WALL MOUNTED FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
	WALL MOUNTED FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
	RECESSED DOWNLIGHT FIXTURE WITH WALL WASH ON NORMAL CIRCUIT.	SEE NOTE 2
	RECESSED DOWNLIGHT FIXTURE WITH WALL WASH ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE NOTE 2
	RECESSED DOWNLIGHT FIXTURE WITH WALL WASH ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE NOTE 2
	HANGING RECTANGULAR PENDANT FIXTURE ON NORMAL CIRCUIT.	SEE NOTE 3
	HANGING RECTANGULAR PENDANT FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE NOTE 3
	HANGING RECTANGULAR PENDANT FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE NOTE 3
	HANGING CIRCULAR PENDANT FIXTURE ON NORMAL CIRCUIT.	SEE NOTE 3
	HANGING CIRCULAR PENDANT FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE NOTE 3
	HANGING CIRCULAR PENDANT FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE NOTE 3
	EMERGENCY LIGHTING UNIT. WALL MOUNTED BATTERY-POWERED LIGHTING. CONNECT TO NORMAL CIRCUIT IN AREA SERVED.	SEE FIXTURE SCHEDULE
	CEILING MOUNTED EXIT SIGN. SHADING INDICATES DOUBLE OR SINGLE FACE. ARROW INDICATES CHEVRON DIRECTIONS.	SEE FIXTURE SCHEDULE
	END MOUNTED EXIT SIGN. SHADING INDICATES DOUBLE OR SINGLE FACE. ARROW INDICATES CHEVRON DIRECTIONS.	SEE FIXTURE SCHEDULE
	WALL PACK LIGHT FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	WALL PACK LIGHT FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
	WALL PACK LIGHT FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
	BOLLARD LIGHT FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	BOLLARD LIGHT FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
	BOLLARD LIGHT FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
	EXTERIOR LIGHT POLE FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
	EXTERIOR LIGHT POLE FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
	EXTERIOR LIGHT POLE FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
	SPOT/FLOOD LIGHT FIXTURE.	SEE FIXTURE SCHEDULE
	WALL SWITCH SPST, 20A, 120/277V	SEE NOTE 4
	DOUBLE POLE TOGGLE SWITCH, 20A, 208/480V	SEE NOTE 4
	3-WAY WALL SWITCH, 20A, 120/277V	SEE NOTE 4
	4-WAY WALL SWITCH, 20A, 120/277V	SEE NOTE 4
	WALL DIMMER SWITCH	SEE NOTE 4
	KEY OPERATED WALL SWITCH	SEE NOTE 4
	3-WAY DIMMER WALL SWITCH, 20A, 120/277V	SEE NOTE 4
	3-WAY KEY OPERATED WALL SWITCH, 20A, 120/277V	SEE NOTE 4
	MOMENTARY WALL SWITCH, 20A, 120/277V	SEE NOTE 4
	LIGHTING CONTROL SWITCH BANK FOR MULTIPLE SWITCHES. REFER TO DETAIL FOR QUANTITY OF SWITCHES IN BANK.	SEE NOTE 4
	LOW VOLTAGE WALL SWITCH	SEE NOTE 4
	WALL SWITCH WITH PILOT LIGHT	SEE NOTE 4
	WALL SWITCH WITH ADJUSTABLE COUNTDOWN TIMER	SEE NOTE 4

LIGHTING NOTES:

- REFER TO LIGHT FIXTURE SCHEDULE FOR SPECIFIC FIXTURE INFORMATION.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR MOUNTING HEIGHTS. IT IS THE INTENT, UNLESS NOTED OTHERWISE, THAT SURFACE AND RECESSED FIXTURES ARE TO BE MOUNTED AT ARCHITECT'S CEILING PLANE.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR MOUNTING HEIGHTS OF PENDANT FIXTURES. REFER TO LIGHTING FIXTURE SCHEDULE FOR PENDANT MATERIAL.
- REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL MOUNTING HEIGHTS. WHERE MOUNTING HEIGHT IS NOT INDICATED BY ARCHITECT, PROVIDE AT 48" AFF.

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 Eng. Reg. No.: 36269 (2000) LS
 Date: 07/24/2024
 Firm: 2013001881

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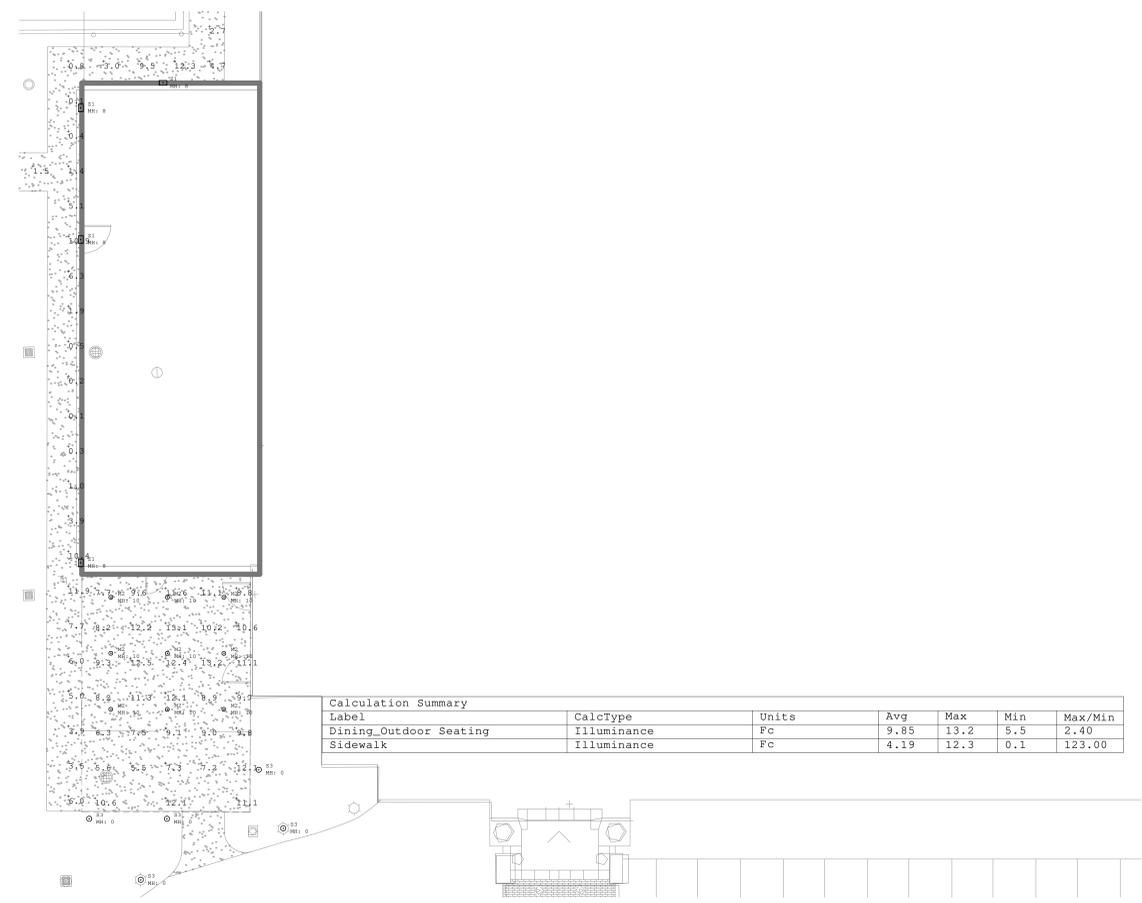
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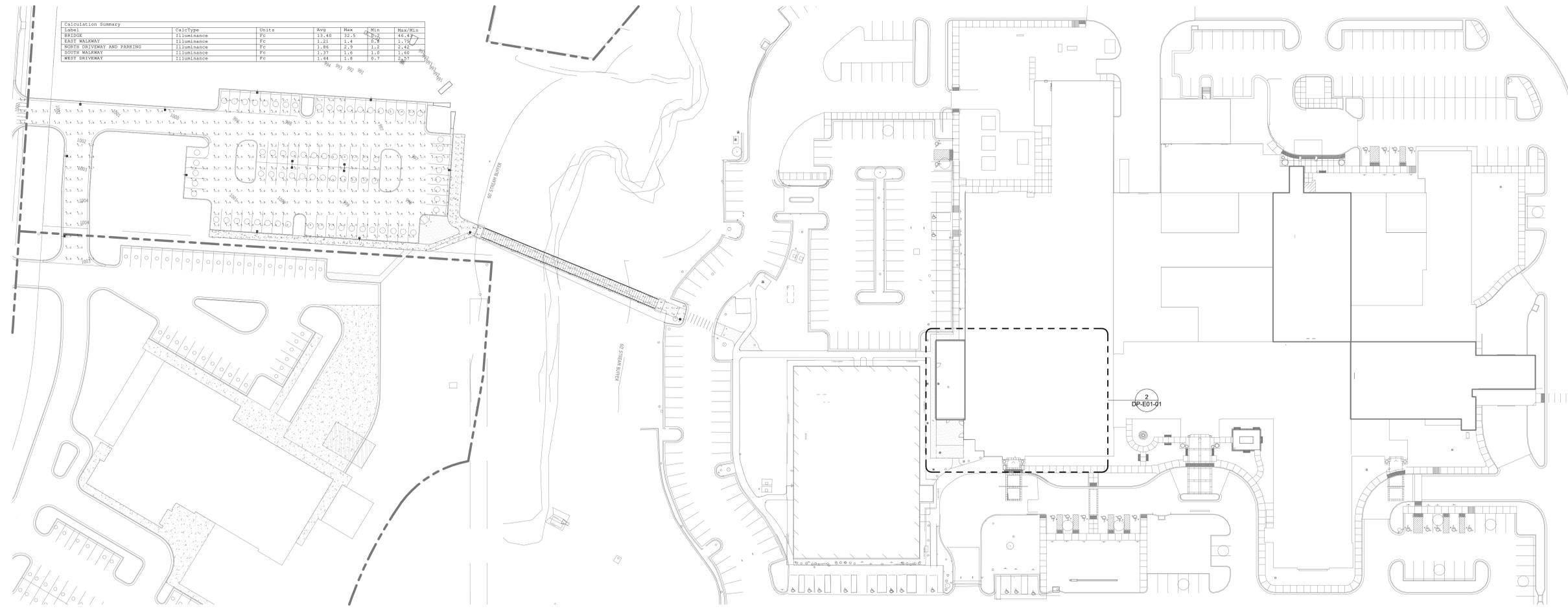
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SITE PLAN - PHOTOMETRICS

DP-E01-01



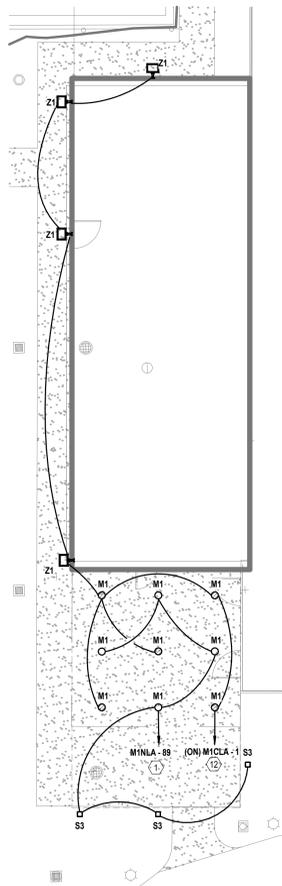
2 EXTERIOR CANOPY - PHOTOMETRICS
 1" = 10'-0"



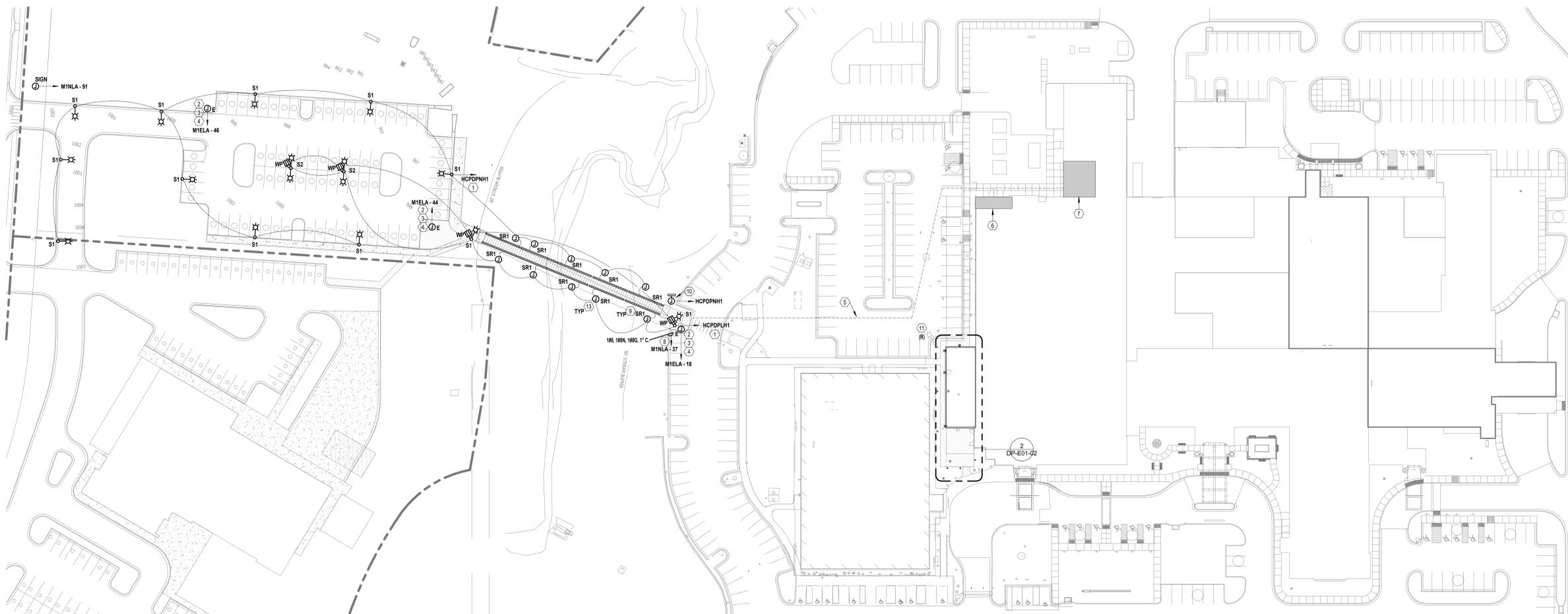
1 SITE PLAN - PHOTOMETRICS
 1" = 40'-0"

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2 EXTERIOR CANOPY - MEP
1" = 10'-0"



1 SITE PLAN - MEP
1" = 40'-0"

LEGEND NOTES

- CONTROL VIA EXISTING EXTERIOR LIGHTING CONTROL PANEL. VERIFY PANEL LOCATION AND SPARE CAPACITY. EXTEND THE EXISTING SYSTEM AS NEEDED.
- EMERGENCY "BLUE" PHONE LOCATION. PROVIDE TALKPHONE ETP-MTE ECO TOWER W/ BLUE STROBE LIGHT, EYE-MTE-ARM CAMERA MOUNTING ARM, AND VOP-SIDE CALL STATION. A 360 DEGREE FIELD-OF-VIEW MULTILENS CAMERA SHALL BE INSTALLED ON CAMERA ARM. BLUE PHONE SHALL HAVE ADA COMPLIANT ACCESSIBILITY FOR PEDESTRIANS.
- PROVIDE 1 1/2" CONDUIT FROM EMERGENCY PHONE TOWER TO HOSPITAL. CONDUIT SHALL ENTER BUILDING AT NEW CONSTRUCTION AREA AND SHALL TERMINATE IN AN ACCESSIBLE ABOVE CEILING SPACE WITHIN THAT AREA. PROVIDE BELDEN 8-STRAND FIBER OPTIC SINGLE-MODE OSP CABLE (W/ LC FIELD INSTALLABLE CONNECTORS) FROM EMERGENCY PHONE TO COMM ROOM 1-ME1066. COMMERCIAL GRADE LC SINGLE-MODE FIBER OPTIC TRANSCEIVERS/ MEDIA CONVERTERS SHALL BE UTILIZED FOR DATA COMMUNICATIONS.
- PROVIDE 120V/1P EMERGENCY POWER FOR THE "BLUE" PHONE. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.
- PROVIDE POWER UNDERGROUND TO THE NEW BRIDGE AND REMOTE PARKING LOT LIGHT FIXTURES AND POWER DEVICES. TRENCH EXISTING PARKING LOT TO INSTALL NEW CONDUIT.
- PANELBOARDS M1ELA AND M1NLA LOCATED IN EXTERIOR ELECTRICAL ROOMS 1-ME1131A AND 1-ME1131, RESPECTIVELY.
- DISTRIBUTION PANELBOARDS HCPDPNH1 AND HCPDPLH1 LOCATED IN MAIN NORMAL ELECTRICAL ROOM 1-CP2002 AND MAIN EMERGENCY ELECTRICAL ROOM 1-CP2001, RESPECTIVELY.
- PROVIDE WIRE SIZE AS INDICATED TO POLE BOX AND THEN CONVERT DOWN TO 1#12, 1#12N, 1#12S AND MAKE CONNECTION TO RECEPTACLE.
- REFER TO ARCHITECTURAL SPECIFICATIONS FOR RAILING PRODUCT AND INSTALLATION REQUIREMENTS.
- PROVIDE 480V/3P POWER TO SNOW MELT CONTROL PANEL. COORDINATE EXACT LOCATION WITH THE SNOWMELT SYSTEM VENDOR.
- RELOCATE EXISTING LIGHT POLE. COORDINATE WITH CIVIL DRAWINGS.
- CIRCUIT ON M1CLA-1 AND ASSOCIATED LIGHTING CONTROL CIRCUIT THAT IS CURRENTLY SERVING THIS AREA.
- PROVIDE NEMA 3R ENCLOSURE FOR EACH LIGHT FIXTURE "SR1" DRIVER. COORDINATE ACCESSIBLE MOUNTING LOCATION WITH MANUFACTURER.



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Eng. Reg. No.: 365-28573000128
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SITE PLAN - ELECTRICAL

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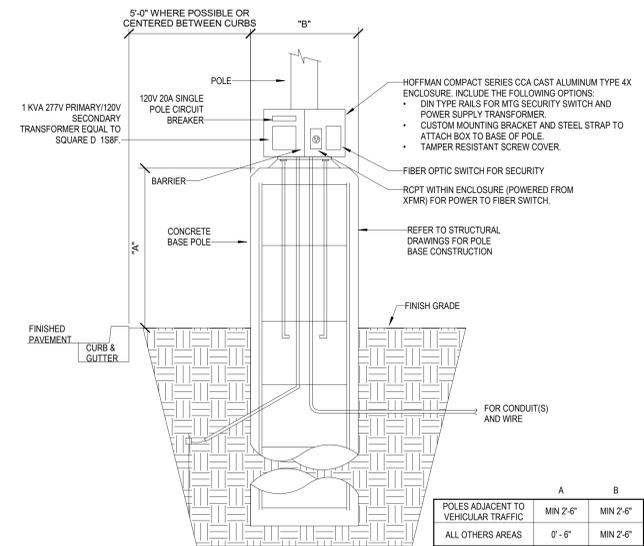
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DETAILS - ELECTRICAL

DP-E07-01



1 LIGHT POLE BASE ENCLOSURE DETAIL
 N.T.S.

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EXTERIOR ELECTRICAL LUMINAIRE FIXTURE SCHEDULE

TYPE	DESCRIPTION	LOCATION	HOUSING	PHYSICAL DESCRIPTION			FINISH	MOUNTING	COLOR TEMP	LAMP	ELECTRICAL SPECIFICATIONS									
				REFLECTOR	SHIELDING	SHIELDING					HOUSING	HOUSING	HOUSING	HOUSING	HOUSING	HOUSING	HOUSING	HOUSING	HOUSING	HOUSING
M1	7" LED ROUND DOWNLIGHT	CANOPY	SHALLOW, LESS THAN 1" SOLID RING	DIFFUSE LENS	N/A	WHITE FINISH	SURFACE MOUNTED	4,000	LED	1,301	50000	12	EACH	LED DRIVER	120	JUNO	#JUSF 7IN 10LM SWSWS 90CR1-MVOLT-ZT			
S1	ARCHITECTURAL SINGLE HEAD LED SITE FIXTURE, TYPE IV DISTRIBUTION	EXTERIOR SITE	DIE-CAST ALUMINUM	TYPE IV MEDIUM	NONE	TOIC THERMOSET POWDER COAT FINISH IN DARK BRONZE	POLE MOUNTED - 20'-0" ROUND ALUMINUM POLE ON 26" CONCRETE BASE	4,000	LED	5,543	10000	89	EACH	LED DRIVER	277	LITHONIA	#DSXLED-200-1000-40K-BLC-MVOLT-RPA-DD BXD AND POLE RSA-20			
S2	ARCHITECTURAL DOUBLE HEAD LED SITE FIXTURE, TYPE IV DISTRIBUTION	EXTERIOR SITE	DIE-CAST ALUMINUM	TYPE IV MEDIUM	NONE	TOIC THERMOSET POWDER COAT FINISH IN DARK BRONZE	POLE MOUNTED - 20'-0" ROUND ALUMINUM POLE ON 26" CONCRETE BASE	4,000	LED	5,543	10000	89	EACH	LED DRIVER	277	LITHONIA	#DSXLED-200-1000-40K-BLC-MVOLT-RPA-DD BXD AND POLE RSA-20			
S3	BOLLARD LED SQUARE FLAT TOP	EXTERIOR SITE	N/A	N/A	N/A	TOIC POWDER COAT FINISH IN BLACK	SURFACE MOUNTED	5,000	LED	1,535	50000	72	EACH	LED DRIVER	120	HYDREL	#S140C-H42-80CB-50K-MVOLT-FT-BL			
SR1	ILLUMINATED RAIL	BRIDGE	STAINLESS STEEL	CLEAR LENS	N/A	STAINLESS STEEL 316	REFER TO MANUFACTURE SPEC SHEET	4,000	LED	8,000	60000	160	EACH	LED DRIVER	277	VIVA RAILINGS	#RIL LIN 1.5 316 40K H CL D			
Z1	LED TRAPEZOIDAL WALL PAK WITH PHOTOCELL, WIDE DISTRIBUTION	EXTERIOR	DIE CAST ALUMINUM, DIE-CAST DOOR FRAME WITH SOLID SILICONE CASSET, IP65	N/A	N/A	THERMOSET POWDER COAT FINISH, DARK BRONZE, CONFIRM WITH ARCHITECT	WALL MOUNTED, REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT	4,000	N/A	1,500	100000	25	EACH	LED DRIVER	120	LITHONIA	#HST LED P1 40K VV MVOLT PE DDBXD			

EXIST: M1ELA
 LOCATION: EXTERIOR ELEC 1-ME1131A
 MAIN BUS: 100 A
 NCB: N/A
 VOLTAGE: 120/208 WYE
 AIC AVAILABLE: EXISTING
 AIC RATING: 10000 A

FED FROM: M1DPEL1
 WIRES: 4W + G + IG
 ENCLOSURE: NEMA 1
 BUS TYPE: COPPER
 MOUNTING: SURFACE
 PANEL LUGS: MLO
 NUMBER OF SECTIONS: 2

EMERGENCY
 NEUTRAL BUS: YES
 GROUND BUS: YES
 ISOLATED GROUND BUS: YES
 200% NEUTRAL: NO
 FEED THROUGH LUGS: YES
 POLES PER SECTION: 42

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A	B	C	CIRCUIT BREAKER POLES / ...	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	2
3	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	4
5	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	6
7	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	8
9	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	10
11	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	12
13	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	14
15	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	16
17	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	18
19	EXISTING LOAD	--	20 1				3 30	--	200 REMOTE LOT PHONE	18
21	EXISTING LOAD	--	20 1				--	--	--	22
23	EXISTING LOAD	--	20 1				--	--	--	24
25	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	26
27	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	28
29	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	30
31	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	32
33	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	34
35	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	36
37	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	38
39	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	40
41	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	42
43	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	44
45	EXISTING LOAD	--	20 1				1 20	--	200 REMOTE LOT PHONE	46
47	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	48
49	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	50
51	SPARE	--	20 1				1 20	--	EXISTING LOAD	52
53	SPARE	--	20 1				1 20	--	EXISTING LOAD	54
55	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	56
57	SPARE	--	20 1				1 20	--	EXISTING LOAD	58
59	SPARE	--	20 1				1 20	--	EXISTING LOAD	60
61	EXISTING LOAD	--	20 1				1 20	--	SPARE	62
63	EXISTING LOAD	--	20 1				1 20	--	SPARE	64
65	EXISTING LOAD	--	20 1				1 20	--	SPARE	66
67	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	68
69	EXISTING LOAD	--	30 2				1 20	--	SPARE	70
71	--	--	--				1 20	--	SPARE	72
73	EXISTING LOAD	--	30 2				1 20	--	EXISTING LOAD	74
75	--	--	--				1 20	--	EXISTING LOAD	76
77	SPARE	--	20 1				1 20	--	EXISTING LOAD	78
79	SPARE	--	20 1				3 30	--	EXISTING LOAD	80
81	SPARE	--	20 1				--	--	--	82
83	SPARE	--	20 1				--	--	--	84

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	
MISC	600	600	KVA	AMPS
			32.2	89.4
			0	0
			0.6	1.7
			32.8	91.1
			32.8	91.1

NOTES:

EXIST: M1NLA
 LOCATION: EXTERIOR ELEC 1-ME1131
 MAIN BUS: 225 A
 NCB: N/A
 VOLTAGE: 120/208 WYE
 AIC AVAILABLE: EXISTING
 AIC RATING: 10000 A

FED FROM: M1DPNL1
 WIRES: 4W + G + IG
 ENCLOSURE: NEMA 1
 BUS TYPE: COPPER
 MOUNTING: SURFACE
 PANEL LUGS: MLO
 NUMBER OF SECTIONS: 3

NORMAL
 NEUTRAL BUS: YES
 GROUND BUS: YES
 ISOLATED GROUND BUS: YES
 200% NEUTRAL: NO
 FEED THROUGH LUGS: YES
 POLES PER SECTION: 42

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A	B	C	CIRCUIT BREAKER POLES / ...	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	2
3	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	4
5	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	6
7	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	8
9	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	10
11	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	12
13	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	14
15	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	16
17	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	18
19	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	20
21	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	22
23	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	24
25	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	26
27	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	28
29	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	30
31	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	32
33	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	34
35	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	36
37	RCPT - SITE POLE LIGHT CONV	720	20 1				1 20	--	EXISTING LOAD	38
39	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	40
41	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	42
43	SPARE	--	40 2				1 20	--	EXISTING LOAD	44
45	--	--	--				1 20	--	EXISTING LOAD	46
47	EXISTING LOAD	--	80 3				1 20	--	EXISTING LOAD	48
49	--	--	--				1 20	--	EXISTING LOAD	50
51	--	--	--				1 20	--	EXISTING LOAD	52
53	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	54
55	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	56
57	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	58
59	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	60
61	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	62
63	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	64
65	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	66
67	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	68
69	EXISTING LOAD	--	30 2				1 20	--	EXISTING LOAD	70
71	--	--	--				1 20	--	EXISTING LOAD	72
73	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	74
75	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	76
77	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	78
79	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	80
81	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	82
83	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	84
85	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	86
87	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	88
89	LGHT - EXTERIOR DINING CANOPY	264	20 1				1 20	--	EXISTING LOAD	90
91	LGHT - SITE SIGNAGE	200	20 1				1 20	--	EXISTING LOAD	92
93	EXISTING LOAD	--	40 2				1 20	--	EXISTING LOAD	94
95	--	--	--				1 20	--	EXISTING LOAD	96
97	EXISTING LOAD	--	20 2				1 20	--	EXISTING LOAD	98
99	--	--	--				1 20	--	EXISTING LOAD	100
101	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	102
103	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	104
105	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	106
107	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	108
109	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	110
111	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	112
113	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	114
115	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	116
117	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	118
119	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	120
121	EXISTING LOAD	--	20 3				3 30	--	EXISTING LOAD	122
123	--	--	--				--	--	--	124
125	--	--	--				--	--	--	126

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	
LIGHT	264	330	KVA	AMPS
MISC	200	200	35.2	97.8
RCPT	720	720	0	0
			1.2	3.3
			36.4	101.1
			36.5	101.3

NOTES:

FEEDER SCHEDULE 600V MAX.

FEEDER TAG & AMPERE RATING	FEEDER DESCRIPTION
15.3, 20.3 15.4, 20.4	#12, #12 G, 3/4" C #12, #12 N, #12 G, 3/4" C
25.3, 30.3 25.4, 30.4	#10, #10 G, 3/4" C #10, #10 N, #10 G, 3/4" C
35.3, 40.3 35.4, 40.4	#8, #10 G, 3/4" C #8, #8 N, #10 G, 3/4" C
45.3, 50.3 45.4, 50.4	#6, #10 G, 3/4" C #6, #6 N, #10 G, 1" C
60.3 60.4	#4, #10 G, 1" C #4, #4 N, #10 G, 1 1/4" C
70.3 70.4	#4, #8 G, 1" C #4, #4 N, #8 G, 1 1/4" C
80.3 80.4	#3, #8 G, 1 1/4" C #3, #3 N, #8 G, 1 1/4" C
90.3 90.4	#2, #8 G, 1 1/4" C #2, #2 N, #8 G, 1 1/4" C
100.3 100.4	#1, #8 G, 1 1/4" C #1, #1 N, #8 G, 1 1/2" C
110.3 110.4	#1, #8 G, 1 1/4" C #1, #1 N, #8 G, 1 1/2" C
125.3, 150.3 125.4, 150.4	#1/0, #8 G, 1 1/2" C #1/0, #1/0 N, #8 G, 2" C
175.3 175.	



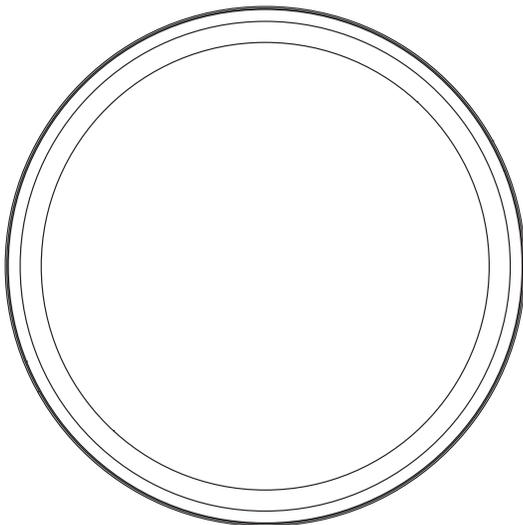
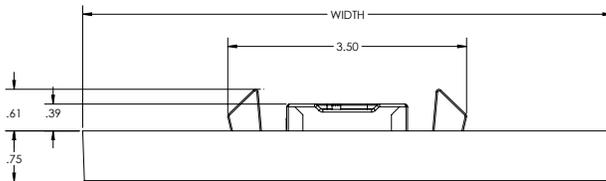
Juno SlimForm™ LED with Selectable CCT

5" and 7" Round Downlight for JBox Installation

JSF Series



Dimensions



Project:
Fixture Type:
Location:
Contact/Phone:

Product Features

Sleek, ultra-low profile energy efficient LED surface mount downlights available in 5" and 7" sizes. Optional finish trims available for custom, designer look similar to standard recessed downlights. Provides general illumination in residential and commercial applications including multi-family and hospitality. Ideal for use in corridors, living spaces, closets, hallways, pantries, stairways, outdoor covered areas and much more. With the newly added selectable CCT switch, the JSF gives the ultimate in flexibility for both the distributor as well as the end user.

Applications

- Suitable for wet locations (indoor covered ceilings): perfect for closets, showers, bathrooms, outdoor soffits, and covered ceiling applications.
- Residential and Light Commercial applications including multi-family and hospitality
- Ideal for use in corridors, foyers, living spaces, closets, hallways, pantries, stairways and much more
- Installs directly into industry standard junction boxes
- Suitable for use within closet storage spaces when installed per NEC requirements. *Junction box sizes vary - Verify compatibility with fixture prior to installation*

Performance

Delivered Lumens	JSF 5IN = 791L - 854L JSF 7IN = 1182L - 1324L
Led Color Temperature	Switchable White (2700K, 3000K, 3500K, 4000K, 5000K) Default set at 3000K
CRI	90+
Voltage	Dedicated 120V and MVOLT (120V-277V)
Dimming	Phase Dimming down to 10%. 0-10V and phase dimming available.

Specifications

	Width	Depth
JSF 5IN	5.25 (13.34)	0.75 (1.91)
JSF 7IN	7.77 (19.74)	0.75 (1.91)

All dimensions are in Inches (centimeters unless otherwise indicated).



Juno SlimForm™ LED with Selectable CCT

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JSF

ORDERING INFORMATION

SlimForm LED Downlight

Example: JSF 5IN 07LM SWW5 90CRI 120 FRPC WH

Series	Size/Lumens	Color Temperature	CRI	Voltage/Driver	Finish ¹
JSF SlimForm Surface Mount Downlight - Round	5IN 07LM 5", 791-854 Lumens	SWW5 Switchable White (2700K, 3000K, 3500K, 4000K, 5000K)	90CRI 90+ CRI	120 FRPC Dedicated 120V, Forward Reverse Phase Dimming	WH White
	7IN 10LM 7", 1182-1324 Lumens				WH LGL² White Low Glare Lens
				MVOLT ZT Universal Voltage 120V-277V, 0-10V Dimming	BL LGL² Black Low Glare Lens
					BZ LGL² Bronze Low Glare Lens
					SN LGL² Satin Nickel Low Glare Lens

Note:

- 1 Trim Accessories must be ordered separately with white finish only. Not available with LGL option.
- 2 Trim finishes with LGL option ship complete. See Accessories if ordering without LGL.

ACCESSORIES¹

TRIM — Optional, field installable finish trim rings available to change the exterior finish of fixture.

Example: JSFTRIM 5IN BZ

Series	Size	Finish
JSFTRIM SlimForm Accessory- Trim	5IN 5 inches	WH White
		BL Black
	7IN 7 inches	BZ Bronze
		SN* Satin Nickel

Note:

* SN not available for 5IN



BLACK



BRONZE



SATIN NICKEL



Juno SlimForm™ LED with Selectable CCT

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JSF

Specifications

Construction

Shallow, less than 1", solid ring with white finish • Non conductive construction allows for light shower applications • Optional, field installable finish trims available for 5" and 7" versions to change the exterior finish of fixture

Optics

Light guide technology combined with diffusing lens conceals the LEDs from direct view and provides uniform lens luminance.

LED Light Engine

LEDs mounted directly to heatsink designed to provide superior thermal management and ensure long life • Selectable CCT with steps at 27K, 30K, 35K, 40K, 50K • LEDs binned for 4-step MacAdam ellipse color consistency • 90 CRI minimum.

LED Driver

Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) driver that accommodates input voltages from 120-277 volts AC at 50/60Hz • Power factor > 0.9 at 120V input • 120 volt driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Universal voltage driver is dimmable with the use of most 0-10V wall box dimmers • External driver is only available on 5" and 7" models • For a list of compatible dimmers, see [JUNOSLIMFORM-DIM](#).

Installation

Junction Box Mounting

Fixture provided with leads for direct wire connection in j-box • Installs directly to industry standard junction boxes • Compatible junction boxes include 4" metal standard and IC1JB junction box housing (3 1/2" junction box screw-hole spacing required for installation) • Minimum 1 3/4" depth and minimum 3 1/2" width of junction box required for installation for 5" and 7" fixtures • Quick mount bracket provides fast installation of fully assembled fixture to junction box • Suitable for ceiling mount • Suitable for use within closet storage spaces when installed per NEC requirements. Junction box sizes vary - Verify compatibility with fixture prior to installation

Life

Rated for 50,000 hours at >70% lumen maintenance.

Labels

ENERGY STAR® certified • Certified to the high efficacy requirements of California T24 JA8-2019 • CSA listed for US and Canada • Suitable for wet locations (covered ceilings).

Testing

All reports are based on published industry procedures; field performance may differ from laboratory performance.

Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



Juno SlimForm™ LED with Selectable CCT

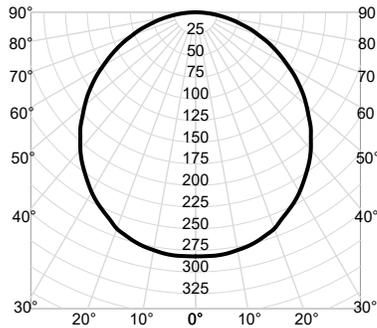
5" and 7" Round Downlight for JBox Installation



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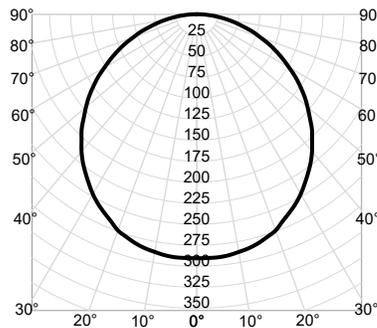
PHOTOMETRICS

JSF 5IN 07LM SWW5 - 27K Input Watts: 9.2, Delivered Lumens: 791, LPW: 86.0, S/MH: 1.25, Test No: ISF 231051P1



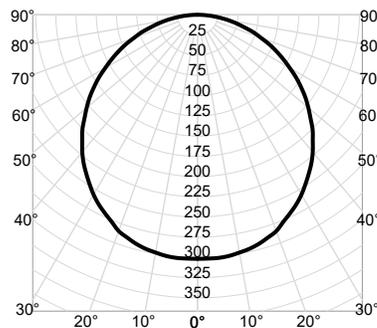
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance						
				pc	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	282	0° - 30°	220	28%	0	119	119	119	116	116	116	111	111	111	6.0	7.8	17.9	0°	31,550	
5°	282	0° - 40°	358	45%	1	104	100	96	102	98	94	98	94	91	8.0	4.4	23.8	45°	29,745	
15°	274	0° - 60°	625	79%	2	91	84	78	89	82	77	85	80	75	10.0	2.8	29.8	55°	28,478	
25°	253	0° - 90°	791	100%	3	80	71	65	78	70	64	75	69	63	12.0	2.0	35.8	65°	26,737	
35°	224	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	1.4	41.7	75°	24,207	
45°	188	0° - 180°	791	100%	5	63	54	47	62	54	47	60	52	47				85°	21,822	
55°	146				6	57	48	41	56	47	41	54	47	41						
65°	101				7	52	43	37	51	42	36	49	42	36						
75°	56				8	47	39	33	46	38	33	45	38	32						
85°	17				9	43	35	29	43	35	29	42	34	29						
90°	0				10	40	32	27	39	32	27	38	31	27						

JSF 5IN 07LM SWW5 - 30K Input Watts: 9.1, Delivered Lumens: 814, LPW: 89.5, S/MH: 1.25, Test No: ISF 231051P2



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance						
				pc	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	290	0° - 30°	227	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.1	17.9	0°	32,496	
5°	290	0° - 40°	369	45%	1	104	100	96	102	98	94	98	94	91	8.0	4.5	23.8	45°	30,638	
15°	282	0° - 60°	643	79%	2	91	84	78	89	82	77	85	80	75	10.0	2.9	29.8	55°	29,332	
25°	261	0° - 90°	814	100%	3	80	71	65	78	70	64	75	69	63	12.0	2.0	35.8	65°	27,539	
35°	231	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	1.5	41.7	75°	24,933	
45°	194	0° - 180°	814	100%	5	63	54	47	62	54	47	60	52	47				85°	22,477	
55°	150				6	57	48	41	56	47	41	54	47	41						
65°	104				7	52	43	37	51	42	36	49	42	36						
75°	58				8	47	39	33	46	38	33	45	38	32						
85°	18				9	43	35	29	43	35	29	42	34	29						
90°	0				10	40	32	27	39	32	27	38	31	27						

JSF 5IN 07LM SWW5 - 35K Input Watts: 8.9, Delivered Lumens: 846, LPW: 95.1, S/MH: 1.25, Test No: ISF 231051P3



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance						
				pc	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	302	0° - 30°	236	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.4	17.9	0°	33,758	
5°	302	0° - 40°	383	45%	1	104	100	96	102	98	94	98	94	91	8.0	4.7	23.8	45°	31,827	
15°	293	0° - 60°	668	79%	2	91	84	78	89	82	77	85	80	75	10.0	3.0	29.8	55°	30,471	
25°	271	0° - 90°	846	100%	3	80	71	65	78	70	64	75	69	63	12.0	2.1	35.8	65°	28,609	
35°	240	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	1.5	41.7	75°	25,901	
45°	201	0° - 180°	846	100%	5	63	54	47	62	54	47	60	52	47				85°	23,350	
55°	156				6	57	48	41	56	47	41	54	47	41						
65°	108				7	52	43	37	51	42	36	49	42	36						
75°	60				8	47	39	33	46	38	33	45	38	32						
85°	18				9	43	35	29	43	35	29	42	34	29						
90°	0				10	40	32	27	39	32	27	38	31	27						



Juno SlimForm™ LED with Selectable CCT

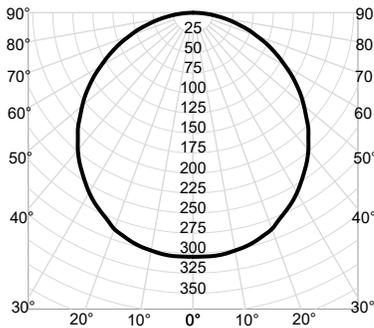
5" and 7" Round Downlight for JBox Installation



JSF

PHOTOMETRICS

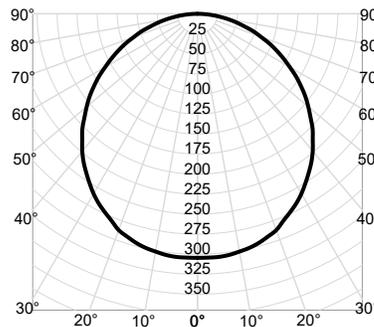
JSF 5IN 07LM SWW5 - 40K Input Watts: 9.1, Delivered Lumens: 854, LPW: 93.8, S/MH: 1.25, Test No: ISF 231051P4



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
0°	0° - 30°	238	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.5	17.9	0°	34,074		
5°	0° - 40°	386	45%	1	104	100	96	102	98	94	98	94	91	8.0	4.8	23.8	45°	32,125		
15°	0° - 60°	675	79%	2	91	84	78	89	82	77	85	80	75	10.0	3.0	29.8	55°	30,756		
25°	0° - 90°	854	100%	3	80	71	65	78	70	64	75	69	63	12.0	2.1	35.8	65°	28,876		
35°	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	1.6	41.7	75°	26,143		
45°	0° - 180°	854	100%	5	63	54	47	62	54	47	60	52	47				85°	23,568		
55°		158		6	57	48	41	56	47	41	54	47	41							
65°		109		7	52	43	37	51	42	36	49	42	36							
75°		60		8	47	39	33	46	38	33	45	38	32							
85°		18		9	43	35	29	43	35	29	42	34	29							
90°		0		10	40	32	27	39	32	27	38	31	27							

Beam Angle: 112.3°
Field Angle: 163.9°

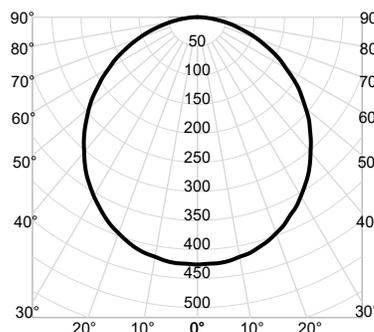
JSF 5IN 07LM SWW5 - 50K Input Watts: 9.2, Delivered Lumens: 854, LPW: 92.8, S/MH: 1.25, Test No: ISF 231051P5



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
0°	0° - 30°	238	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.5	17.9	0°	34,074		
5°	0° - 40°	386	45%	1	104	100	96	102	98	94	98	94	91	8.0	4.8	23.8	45°	32,125		
15°	0° - 60°	675	79%	2	91	84	78	89	82	77	85	80	75	10.0	3.0	29.8	55°	30,756		
25°	0° - 90°	854	100%	3	80	71	65	78	70	64	75	69	63	12.0	2.1	35.8	65°	28,876		
35°	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	1.6	41.7	75°	26,143		
45°	0° - 180°	854	100%	5	63	54	47	62	54	47	60	52	47				85°	23,568		
55°		158		6	57	48	41	56	47	41	54	47	41							
65°		109		7	52	43	37	51	42	36	49	42	36							
75°		60		8	47	39	33	46	38	33	45	38	32							
85°		18		9	43	35	29	43	35	29	42	34	29							
90°		0		10	40	32	27	39	32	27	38	31	27							

Beam Angle: 112.3°
Field Angle: 163.9°

JSF 7IN 10LM SWW5 - 27K Input Watts: 12.0, Delivered Lumens: 1182, LPW: 98.5, S/MH: 1.24, Test No: ISF 23588P1



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
0°	0° - 30°	331	28%	0	119	119	119	116	116	116	111	111	111	6.0	11.8	16.9	0°	18,617		
5°	0° - 40°	538	45%	1	104	100	96	102	98	94	97	94	91	8.0	6.7	22.5	45°	16,934		
15°	0° - 60°	937	79%	2	91	84	78	89	83	77	85	80	75	10.0	4.3	28.2	55°	16,153		
25°	0° - 90°	1,182	100%	3	80	72	65	78	71	64	75	69	63	12.0	3.0	33.8	65°	14,891		
35°	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	2.2	39.5	75°	12,833		
45°	0° - 180°	1,182	100%	5	63	54	48	62	54	47	60	52	47				85°	10,029		
55°		212		6	57	48	42	56	47	41	54	47	41							
65°		144		7	52	43	37	51	42	37	49	42	36							
75°		76		8	47	39	33	46	38	33	45	38	32							
85°		20		9	43	35	29	43	35	29	42	34	29							
90°		0		10	40	32	27	39	32	27	38	31	27							

Beam Angle: 109.3°
Field Angle: 161.5°



Juno SlimForm™ LED with Selectable CCT

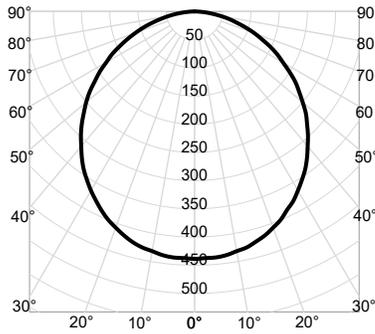
5" and 7" Round Downlight for JBox Installation



JSF

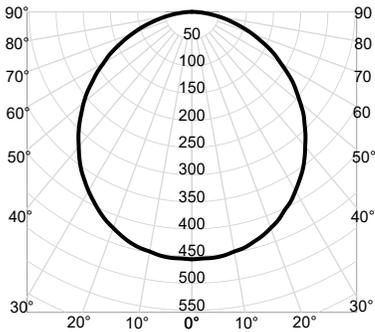
PHOTOMETRICS

JSF 7IN 10LM SWW5 - 30K Input Watts: 12.3, Delivered Lumens: 1218, LPW: 99.0, S/MH: 1.24, Test No: ISF 23588P2



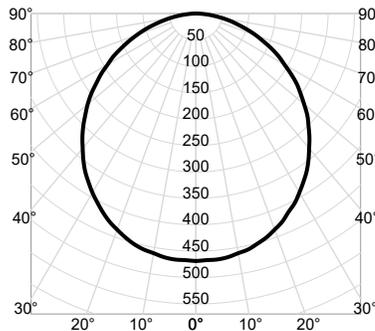
CP Summary				Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf pc	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance								
				pw	50%	30%	10%	50%	30%	10%												
0°	439	0° - 30°	341	28%	0	119	119	119	116	116	116	111	111	111	6.0	12.2	16.9	0°	19,176			
5°	438	0° - 40°	554	45%	1	104	100	96	102	98	94	97	94	91	8.0	6.9	22.5	45°	17,442			
15°	422	0° - 60°	966	79%	2	91	84	78	89	83	77	85	80	75	10.0	4.4	28.2	55°	16,637			
25°	388	0° - 90°	1,218	100%	3	80	72	65	78	71	64	75	69	63	12.0	3.0	33.8	65°	15,338			
35°	342	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	2.2	39.5	75°	13,218			
45°	282	0° - 180°	1,218	100%	5	63	54	48	62	54	47	60	52	47	Beam Angle: 109.3°			85°	10,329			
55°	218				6	57	48	42	56	47	41	54	47	41	Field Angle: 161.5°							
65°	148				7	52	43	37	51	42	37	49	42	36								
75°	78				8	47	39	33	46	38	33	45	38	32								
85°	21				9	43	35	29	43	35	29	42	34	29								
90°	0				10	40	32	27	39	32	27	38	31	27								

JSF 7IN 10LM SWW5 - 35K Input Watts: 12.1, Delivered Lumens: 1265, LPW: 104.5, S/MH: 1.24, Test No: ISF 23588P3



CP Summary				Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf pc	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance								
				pw	50%	30%	10%	50%	30%	10%												
0°	456	0° - 30°	354	28%	0	119	119	119	116	116	116	111	111	111	6.0	12.7	16.9	0°	19,920			
5°	455	0° - 40°	575	45%	1	104	100	96	102	98	94	97	94	91	8.0	7.1	22.5	45°	18,120			
15°	439	0° - 60°	1,003	79%	2	91	84	78	89	83	77	85	80	75	10.0	4.6	28.2	55°	17,284			
25°	403	0° - 90°	1,265	100%	3	80	72	65	78	71	64	75	69	63	12.0	3.2	33.8	65°	15,933			
35°	355	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	2.3	39.5	75°	13,731			
45°	293	0° - 180°	1,265	100%	5	63	54	48	62	54	47	60	52	47	Beam Angle: 109.3°			85°	10,731			
55°	227				6	57	48	42	56	47	41	54	47	41	Field Angle: 161.5°							
65°	154				7	52	43	37	51	42	37	49	42	36								
75°	81				8	47	39	33	46	38	33	45	38	32								
85°	21				9	43	35	29	43	35	29	42	34	29								
90°	0				10	40	32	27	39	32	27	38	31	27								

JSF 7IN 10LM SWW5 - 40K Input Watts: 12.2, Delivered Lumens: 1301, LPW: 106.6, S/MH: 1.24, Test No: ISF 23588P4



CP Summary				Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf pc	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance								
				pw	50%	30%	10%	50%	30%	10%												
0°	469	0° - 30°	364	28%	0	119	119	119	116	116	116	111	111	111	6.0	13.0	16.9	0°	20,479			
5°	468	0° - 40°	592	45%	1	104	100	96	102	98	94	97	94	91	8.0	7.3	22.5	45°	18,628			
15°	451	0° - 60°	1,031	79%	2	91	84	78	89	83	77	85	80	75	10.0	4.7	28.2	55°	17,768			
25°	415	0° - 90°	1,300	100%	3	80	72	65	78	71	64	75	69	63	12.0	3.3	33.8	65°	16,380			
35°	365	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	2.4	39.5	75°	14,116			
45°	301	0° - 180°	1,301	100%	5	63	54	48	62	54	47	60	52	47	Beam Angle: 109.3°			85°	11,031			
55°	233				6	57	48	42	56	47	41	54	47	41	Field Angle: 161.5°							
65°	158				7	52	43	37	51	42	37	49	42	36								
75°	84				8	47	39	33	46	38	33	45	38	32								
85°	22				9	43	35	29	43	35	29	42	34	29								
90°	0				10	40	32	27	39	32	27	38	31	27								



Juno SlimForm™ LED with Selectable CCT

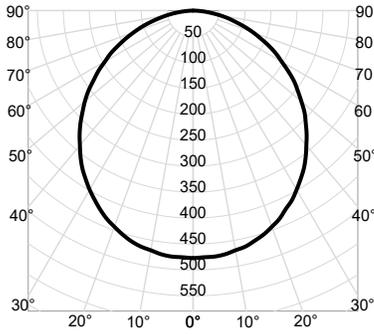
5" and 7" Round Downlight for JBox Installation



JSF

PHOTOMETRICS

JSF 7IN 10LM SWW5 - 50K Input Watts: 12.3, Delivered Lumens: 1324, LPW: 107.6, S/MH: 1.24, Test No: ISF 23588P5



CP Summary	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
	0°	Zone	Lumens	% Fixture	pf	80%		20%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance	0°	20,851
						pc	50%	30%	10%	50%	30%	10%	50%						
0°	477	0° - 30°	370	28%	0	119	119	119	116	116	116	111	111	111	6.0	13.3	16.9	0°	20,851
5°	476	0° - 40°	602	45%	1	104	100	96	102	98	94	97	94	91	8.0	7.5	22.5	45°	18,967
15°	459	0° - 60°	1,050	79%	2	91	84	78	89	83	77	85	80	75	10.0	4.8	28.2	55°	18,091
25°	422	0° - 90°	1,324	100%	3	80	72	65	78	71	64	75	69	63	12.0	3.3	33.8	65°	16,678
35°	372	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	2.4	39.5	75°	14,373
45°	307	0° - 180°	1,324	100%	5	63	54	48	62	54	47	60	52	47				85°	11,232
55°	237				6	57	48	42	56	47	41	54	47	41					
65°	161				7	52	43	37	51	42	37	49	42	36					
75°	85				8	47	39	33	46	38	33	45	38	32					
85°	22				9	43	35	29	43	35	29	42	34	29					
90°	0				10	40	32	27	39	32	27	38	31	27					

Beam Angle: 109.3°
Field Angle: 161.5°

Catalog Number
Notes
Type

FEATURES & SPECIFICATIONS

INTENDED USE — These specifications are for USA standards only. Round Straight Aluminum is a general purpose light pole for up to 30-foot mounting heights. This pole provides a lighter and naturally corrosion-resistant option for mounting area light fixtures and floodlights.

CONSTRUCTION —

Pole Shaft: The pole shaft is of uniform wall thickness and is one-piece extruded 6063 aluminum alloy with T6 temper. The shaft is uniform in cross-section down length of pole with no taper. Available shaft diameters are 4", 4.5", 5", and 6".

Pole Top: Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. A removable cast aluminum top cap with set screws is provided for all poles that will receive drilling patterns for side-mount luminaire arm assemblies or when ordered with open top (PT) option. The top cap resists intrusion of moisture and environmental contaminants.

Handhole: A non-reinforced handhole with grounding provision is provided near the base. Standard positioning varies with shaft width as follows: 4", 4.5", and 5" shaft, handhole at 12"; 6" shaft, handhole at 18". Positioning the handhole lower than standard may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. All handholes for a pole specified with openings for 4" through 6" shaft width has nominal dimension of 2" x 4" with surface mount overlap design. Standard and extra handholes come with cover and attachment hardware.

Bolt Caps/Base Cover: Pole base plate utilizes cast aluminum A365 bolt caps to cover anchor bolt and nut assembly. 1 piece, spun aluminum base cover available as an option.

Anchor Base/Bolts: Anchor base is cast from A356 alloy aluminum and is heat treated to a T6 temper after welding. Anchor bolts are manufactured to ASTM F1554 Standards Grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Upper portion of anchor bolt is galvanized per ASTM A-153; bolts have an "L" bend on bottom end and are galvanized a minimum of 12" on the threaded end. Each hot-dipped galvanized anchor bolt is furnished with two hex nuts and two flat washers.

HARDWARE — All structural and non-structural fasteners are stainless-steel.

FINISH — Extra durable painted finish is coated with TGIC (Triglycidyl Isocyanurate) Polyester powder that meets 5A and 5B classifications of ASTM D3359. Standard powder-coat finishes include Dark Bronze, White, Black, and Natural Aluminum colors. Other finishes include Brushed Aluminum, and Anodized Dark Bronze, Anodized Natural Aluminum and Anodized Black. Architectural Colors and Special Finishes are available by quote and include, but are not limited to RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

GROUNDING — Grounding provision is located in handhole near the base. Grounding hardware is not included (provided by others).

INSTALLATION — **Do not** erect poles without having fixtures installed. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage. Lithonia Lighting is not responsible for the foundation design.

WARRANTY — 1-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Anchor Base Poles

RSA

ROUND STRAIGHT ALUMINUM



RSA Round Straight Aluminum Poles

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: RSA 16 4-5C DM19 BA

Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness ¹	Mounting ²		
RSA	8'-30' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.) (See technical information table for complete ordering information.)	4C 4" (.125") 4-5C 4 1/2" (.125") 4-5G 4 1/2" (.188") 5C 5" (.125") 5E 5" (.156") 5G 5" (.188") 6E 6" (.156") 6G 6" (.188") (See technical information table for complete ordering information.)	<u>Tenon mounting</u> PT Open top T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) T35 4" O.D. (3-1/2" NPS) <u>KAC/KAD/KSE/KSF/KVR/KVF Drill mounting³</u> DM19 1 at 90° DM28 2 at 180° DM28PL 2 at 180° with one side plugged DM29 2 at 90° DM32 3 at 120° DM39 3 at 90° DM49 4 at 90° <u>CSX/DSX/R SX/AERIS™/OMERO™/HLA/KAX Drill mounting³</u> DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM32AS 3 at 120° DM39AS 3 at 90° DM49AS 4 at 90°	<u>RAD drill mounting³</u> DM19RAD 1 at 90° DM28RAD 2 at 180° DM29RAD 2 at 90° DM32RAD 3 at 120° DM39RAD 3 at 90° DM49RAD 4 at 90° <u>ESX Drill mounting³</u> DM19ESX 1 at 90° DM28ESX 2 at 180° DM29ESX 2 at 90° DM39ESX 3 at 90° DM49ESX 4 at 90°	<u>AERIS™ Suspend drill mounting^{3,4}</u> DM19AST_ 1 at 90° DM28AST_ 2 at 180° DM29AST_ 2 at 90° DM39AST_ 3 at 90° DM49AST_ 4 at 90° <u>OMERO™ Suspend drill mounting^{3,4}</u> DM19MRT_ 1 at 90° DM28MRT_ 2 at 180° DM29MRT_ 2 at 90° DM39MRT_ 3 at 90° DM49MRT_ 4 at 90°

Options	Finish ¹⁰
L/AB Less anchor bolts (Include when anchor bolts are not needed)	<u>Super durable paint colors</u>
VD Vibration damper	DDBXD Dark bronze
TP Tamper resistant handhole cover fasteners	DBLXD Black
HAXy Horizontal arm bracket (1 fixture) ^{5,6}	DNAXD Natural aluminum
FDLxy Festoon outlet less electrical ^{5,7}	DWHXD White
CPL12/xy 1/2" I.D. coupling ⁵	DDBTXD Textured dark bronze
CPL34/xy 3/4" I.D. coupling ⁵	DBLBXD Textured black
CPL1/xy 1" I.D. coupling ⁵	DNATXD Textured natural aluminum
NPL12/xy 1/2" O.D. threaded nipple ⁵	DWHGXD Textured white
NPL34/xy 3/4" O.D. threaded nipple ⁵	<u>Brushed finish</u>
NPL1/xy 1" O.D. threaded nipple ⁵	BA Brushed aluminum
EHHxy Extra handhole ^{5,8}	<u>Class 1 architectural anodized</u>
BAA Buy America(n) Act Compliant ⁹	ABL Black
UL UL listed with label (Includes NEC compliant cover)	ADB Dark bronze
NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled)	ANA Natural
FBC Full base cover (spun aluminum)	<u>Architectural colors and special finishes</u>
	Duranodic Anodize, Paint over Duranodic Anodize, RAL Colors, Custom Colors and Extended Warranty Finishes available.

Accessories: Order as separate catalog number.	
PL DT20	Plugs for ESX drillings
PL DT8	Plugs for DMxxAS drillings

NOTES:

- Wall thickness will be signified with a "C", "E" or a "G" in nomenclature. "C" - 0.125 | "E" - 0.156 | "G" - 0.188.
- PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20. The combination includes a required extra handhole.
- Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
- Insert "1" or "2" to designate fixture size; e.g. DM19AST2.
- Specify location and orientation when ordering option.
For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-".
Example: 5ft = 5 and 20ft 3in = 20-3
For "y": Specify orientation from handhole (A,B,C,D) Refer to the Handhole Orientation diagram below.
Example: 1/2" coupling at 5' 8", orientation C = CPL12/5-8C
- Horizontal arm is 18" x 2-3/8" O.D. tenon standard with radius curve providing 12' rise. If ordering two horizontal arm at the same height, specify with HAXxy. Example: HA20BD
- FDL does not come with additional covering. Festoons must be a minimum of 3ft (36in) from the base in any orientation. Distance between any festoon and/or handhole must be at least 1ft and 6in (18in) apart in any orientation.
- Combination of tenon-top and drill mount includes extra handhole. Extra Handholes must be a minimum of 3ft (36in) from the base in any orientation. Distance between any festoon and/or handhole must be at least 1ft and 6in (18in) apart in any orientation.
- Use when mill certifications are required. Some configurations may be excluded, consult factory.
- Finish must be specified. Additional colors available; see Architectural Colors brochure linked [here](#) (Form No. 794.3).

RSA Round Straight Aluminum Poles

TECHNICAL INFORMATION — EPA (FT ²) WITH 1.3 GUST									
Catalog number	Nominal mount ht. (ft) *	Pole shaft size (in x ft)	Wall thick (in)	EPA (ft ²) with 1.3 gust			Max. weight (lbs)	Bolt size (in. x in. x in.)	Approximate ship (lbs.)
				80 mph	90 mph	100 mph			
RSA 8 4C	8	4 x 8	0.125	11.2	8.6	6.8	125	3/4 x 18 x 3	22
RSA 8 4-5C	8	4-1/2 x 8	0.125	14.6	11.3	9.1	175	3/4 x 18 x 3	30
RSA 8 4-5G	8	4-1/2 x 8	0.188	21.8	17	13.7	225	3/4 x 18 x 3	38
RSA 10 4C	10	4 x 10	0.125	8.2	6.1	4.7	100	3/4 x 18 x 3	26
RSA 10 4-5C	10	4-1/2 x 10	0.125	10.6	8.1	6.5	133	3/4 x 18 x 3	34
RSA 10 4-5G	10	4-1/2 x 10	0.188	16.3	12.6	10.1	175	3/4 x 18 x 3	43
RSA 10 5C	10	5 x 10	0.125	13.6	10.6	8.5	150	3/4 x 18 x 3	36
RSA 12 4C	12	4 x 12	0.125	6	4.3	3.2	110	3/4 x 18 x 3	30
RSA 12 4-5C	12	4-1/2 x 12	0.125	8.1	6	4.8	80	3/4 x 18 x 3	38
RSA 12 4-5G	12	4-1/2 x 12	0.188	12.7	9.7	7.7	185	3/4 x 18 x 3	50
RSA 12 5C	12	5 x 12	0.125	10.3	8	6.3	150	3/4 x 18 x 3	36
RSA 12 5E	12	5 x 12	0.156	13.2	10.3	8.2	200	3/4 x 18 x 3	44
RSA 12 5G	12	5 x 12	0.188	16.2	12.6	10.1	225	3/4 x 18 x 3	53
RSA 14 4C	14	4 x 14	0.125	4.1	2.8	1.9	75	3/4 x 18 x 3	35
RSA 14 4-5C	14	4-1/2 x 14	0.125	5.8	4.2	3.3	60	3/4 x 18 x 3	39
RSA 14 4-5G	14	4-1/2 x 14	0.188	9.7	7.3	5.8	190	3/4 x 18 x 3	56
RSA 14 5C	14	5 x 14	0.125	7.8	6	4.7	100	3/4 x 18 x 3	42
RSA 14 5E	14	5 x 14	0.156	10.3	8	6.3	125	3/4 x 18 x 3	47
RSA 14 5G	14	5 x 14	0.188	12.8	9.9	7.9	150	3/4 x 18 x 3	56
RSA 16 4C	16	4 x 16	0.125	2.8	1.6	1	150	3/4 x 18 x 3	38
RSA 16 4-5C	16	4-1/2 x 16	0.125	3.3	2.2	1.6	100	3/4 x 18 x 3	46
RSA 16 4-5G	16	4-1/2 x 16	0.188	7.5	5.5	4.3	155	3/4 x 18 x 3	62
RSA 16 5C	16	5 x 16	0.125	5.9	4.4	3.4	175	3/4 x 18 x 3	46
RSA 16 5E	16	5 x 16	0.156	8	6.1	4.8	190	3/4 x 18 x 3	53
RSA 16 5G	16	5 x 16	0.188	10.1	7.8	6.1	200	3/4 x 18 x 3	60
RSA 16 6E	16	6 x 16	0.156	13.6	10.6	8.4	225	3/4 x 30 x 3	53
RSA 16 6G	16	6 x 16	0.188	16.8	13	10.4	245	3/4 x 30 x 3	78
RSA 18 5G	18	5 x 18	0.188	8	6.8	4.7	225	3/4 x 18 x 3	68
RSA 18 5C	18	5 x 18	0.125	4.3	3.1	2.4	150	3/4 x 18 x 3	48
RSA 18 5E	18	5 x 18	0.156	6.1	4.6	3.5	175	3/4 x 18 x 3	58
RSA 18 4-5G	18	4-1/2 x 18	0.188	5.7	4	3.1	123	3/4 x 18 x 3	68
RSA 18 6G	18	6 x 18	0.188	13.9	10.7	8.5	225	3/4 x 30 x 3	86
RSA 20 4-5G	20	4-1/2 x 20	0.188	4.3	2.9	2.1	95	3/4 x 18 x 3	74
RSA 20 5C	20	5 x 20	0.125	3	2.1	1.5	150	3/4 x 18 x 3	54
RSA 20 5E	20	5 x 20	0.156	4.7	3.4	2.6	150	3/4 x 18 x 3	68
RSA 20 5G	20	5 x 20	0.188	6.4	4.8	3.6	150	3/4 x 18 x 3	82
RSA 20 6E	20	6 x 20	0.156	9.3	7.1	5.5	175	3/4 x 30 x 3	95
RSA 20 6G	20	6 x 20	0.188	11.8	9.1	7.1	200	3/4 x 30 x 3	110
RSA 25 4-5G	25	4-1/2 x 25	0.188	1.3	--	--	100	3/4 x 18 x 3	89
RSA 25 6E	25	6 x 25	0.156	5.2	3.8	2.8	150	3/4 x 30 x 3	108
RSA 25 6G	25	6 x 25	0.188	7.1	5.3	4	150	3/4 x 30 x 3	128
RSA 30 6G	30	6 x 30	0.188	3.5	2.4	1.6	200	3/4 x 30 x 3	146

NOTE: EPA values are based ASCE 7-93 wind map.

*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

RSA Round Straight Aluminum Poles

TECHNICAL INFORMATION — EPA (ft ²) WITH 3-SECOND GUST PER AASHTO 2013																
Series	Mounting Height (ft)*	Shaft Base Size	90 MPH	Max. weight	100 MPH	Max. weight	110 MPH	Max. weight	120 MPH	Max. weight	130 MPH	Max. weight	140 MPH	Max. weight	150 MPH	Max. weight
RSA	8	4C	7.3	75	5.7	75	4.5	75	3.7	75	3.1	75	2.6	75	2.3	75
RSA	8	4-5C	10.2	100	8	100	6.5	100	5.4	100	4.6	100	3.9	100	3.4	100
RSA	8	4-5G	15.1	100	12.1	100	9.8	100	8.2	100	7	100	6	100	5.1	100
RSA	10	4C	5.5	75	4.2	75	3.2	75	2.6	75	2.1	75	1.8	75	1.5	75
RSA	10	4-5C	7.9	100	6.1	100	4.9	100	4	100	3.4	100	2.8	100	2.4	100
RSA	10	4-5G	12	100	9.4	100	7.6	100	6.3	100	5.3	100	4.5	100	3.9	100
RSA	10	5C	10.6	100	8.4	100	6.9	100	5.7	100	4.8	100	4.1	100	3.5	100
RSA	12	4C	4.1	75	3	75	2.2	75	1.6	75	1.3	75	1.1	75	0.9	75
RSA	12	4-5C	6.1	100	4.6	100	3.6	100	2.9	100	2.4	100	2	100	1.7	100
RSA	12	4-5G	9.6	100	7.4	100	5.9	100	4.9	100	4.1	100	3.5	100	2.9	100
RSA	12	5C	8.4	100	6.6	100	5.3	100	4.4	100	3.7	100	3.1	100	2.6	100
RSA	12	5E	10.8	100	8.5	100	6.9	100	5.7	100	4.8	100	4.1	100	3.5	100
RSA	12	5G	13.1	100	10.4	100	8.5	100	7	100	5.9	100	5	100	4.3	100
RSA	14	4C	3	75	2	75	1.3	75	0.9	75	0.6	75	0.5	75	-	-
RSA	14	4-5C	4.6	100	3.3	100	2.5	100	2	100	1.6	100	1.3	100	1.1	100
RSA	14	4-5G	7.7	100	5.8	100	4.6	100	3.7	100	3.1	100	2.6	100	2.2	100
RSA	14	5C	6.6	100	5.1	100	4	100	3.3	100	2.7	100	2.3	100	1.9	100
RSA	14	5E	8.7	100	6.7	100	5.4	100	4.5	100	3.7	100	3.1	100	2.6	100
RSA	14	5G	10.7	100	8.4	100	6.8	100	5.6	100	4.7	100	4	100	3.4	100
RSA	16	4C	2	75	1.2	75	0.6	75	-	-	-	-	-	-	-	-
RSA	16	4-5C	3.3	100	2.2	100	1.6	100	1.2	100	0.9	100	0.7	100	0.5	100
RSA	16	4-5G	6	100	4.4	100	3.3	100	2.7	100	2.2	100	1.8	100	1.5	100
RSA	16	5C	5	100	3.7	100	2.9	100	2.3	100	1.9	100	1.5	100	1.3	100
RSA	16	5E	6.8	100	5.2	100	4.1	100	3.3	100	2.7	100	2.3	100	1.9	100
RSA	16	5G	8.6	100	6.6	100	5.3	100	4.4	100	3.6	100	3	100	2.5	100
RSA	16	6E	13.1	100	10.5	100	8.5	100	7	100	5.9	100	5	100	4.3	100
RSA	16	6G	16.1	100	12.9	100	10.5	100	8.7	100	7.3	100	6.2	100	5.3	100
RSA	18	5G	6.8	100	5.1	100	4.1	100	3.3	100	2.7	100	2.2	100	1.8	100
RSA	18	5C	3.6	100	2.6	100	2	100	1.5	100	1.2	100	0.9	100	0.7	100
RSA	18	5E	5.2	100	3.9	100	3	100	2.4	100	1.9	100	1.5	100	1.3	100
RSA	18	4-5G	4.6	100	3.1	100	2.3	100	1.8	100	1.4	100	1.1	100	0.9	100
RSA	18	6G	13.4	100	10.6	100	8.6	100	7.1	100	5.9	100	5	100	4.3	100
RSA	20	4-5G	3.3	100	2.1	100	1.4	100	1	100	0.7	100	0.5	100	-	-
RSA	20	5C	2.4	100	1.6	100	1.1	100	0.8	100	0.5	100	-	-	-	-
RSA	20	5E	3.8	100	2.7	100	2	100	1.6	100	1.2	100	0.9	100	0.7	100
RSA	20	5G	5.2	100	3.8	100	3	100	2.3	100	1.9	100	1.5	100	1.2	100
RSA	20	6E	8.8	100	6.9	100	5.5	100	4.5	100	3.7	100	3.1	100	2.6	100
RSA	20	6G	11.1	100	8.7	100	7	100	5.8	100	4.8	100	4	100	3.4	100
RSA	25	4-5G	0.8	100	-	-	-	-	-	-	-	-	-	-	-	-
RSA	25	6E	4.9	100	3.7	100	2.8	100	2.2	100	1.7	100	1.3	100	1	100
RSA	25	6G	6.7	100	5.1	100	4	100	3.2	100	2.5	100	2.1	100	1.7	100
RSA	30	6G	3.4	100	2.4	100	1.7	100	1.2	100	0.8	100	0.6	100	-	-

NOTES: AASHTO 2013 criteria is the most conservative existing EPA calculation. For poles not showing EPA values under AASHTO 2013, EPA values may exist under commercial criteria (see table below).

1) Maximum EPA (Effective Projected Area) and weight values are based on the load centroid being 2.5' above the pole top and with 2' eccentricity.

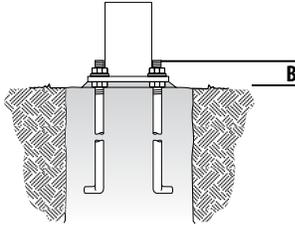
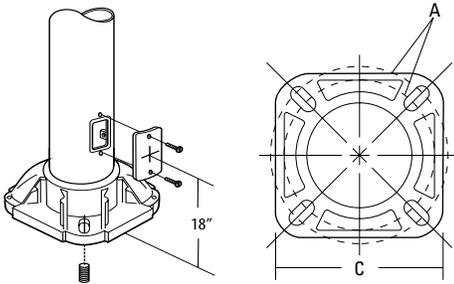
Variations from the sizes above are available upon inquiry at the factory. Satisfactory performance of poles is dependent upon the pole being properly attached to a supporting foundation of adequate design

2) Structure weight is a nominal value which includes the pole shaft and base plate only.

*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

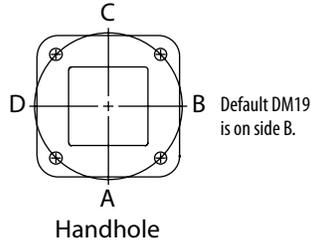
RSA Round Straight Aluminum Poles

BASE DETAIL



POLE DATA					
Shaft base size	Bolt circle A	Bolt projection B	Base diameter C	Template description	Anchor bolt description
4"	6.75" - 8.00"	3.25"	8.91"	ABTEMPLATE PJ50057	AB18-0
4.5"	7.125" - 8.38"	3.25"	9.26"	ABTEMPLATE PJ50040	AB18-0
5"	7.75" - 8.00"	3.25"	9.61"	ABTEMPLATE PJ50058	AB18-0
6"	9.00" - 10.00"	3.50"	10.32"	ABTEMPLATE PJ50059	AB30-0

HANDHOLE ORIENTATION



IMPORTANT INSTALLATION NOTES:

- **Do not** erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use factory template.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.

CAUTION: These specifications are intended for general purposes only. Lithonia Lighting reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.



3140C LED

Impact Resistant Square Bollard Flat Top

HIGHLIGHTS

- A confident solution for safety and performance in a proven vandal resistant bollard
- Motion Sensing Bi-Level switching using electromagnetic occupancy sensor → 20ft range
- USB receptacle or GFCI receptacle options
- 0-10V Dimming, ELV dimming
- Emergency operation up to 90 minutes
- 1810 lumens

5
YEAR
warranty



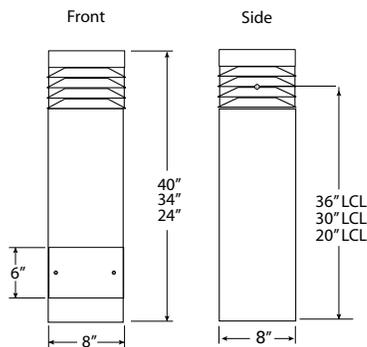
IP65



Specifications

Diameter:	9"
	229 mm
Diameter ² :	8"
	204 mm
Height:	42"
	1016 mm
Height ² :	36"
	915 mm
Weight:	35lbs

DIMENSIONS

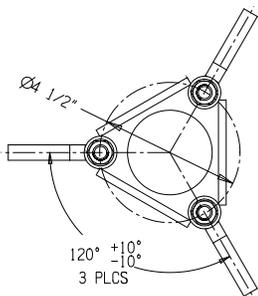


LUMEN PACKAGES

	SYM
Delivered Lumens	1810
Watts	84
LPW	22

Note: Information Based on 50K

MOUNTING



ORDERING INFORMATION

EXAMPLE: 3140C H36 8COB 50K MVOLT SYM BL

Series	Height	Lamp type	Color	Voltage	Distribution	Options ⁴
3140C	H24	4COB ¹	20K	2000°K Color Temp	MVOLT (120-277 volt)	BLS^{5,6} Bi-Level Switching (Motion Activated) GFCI Receptacle; 120 volt only, cannot be used with USB ELN^{5,7} Emergency Operation (1387.5 lumen output; 90 minutes) LDIM 0-10V Dimming (Dims to 10%) IDIM⁶ In-line Trailing Edge ELV Dimming (Dims to 40%); 120 volt only USB USB charging port, 120 volt only, cannot be used with GFCI
	H36	8COB	30K	3000°K Color Temp	120 ²	
	H42	40K	4000°K Color Temp	277 ²		
		50K	5000°K Color Temp	347		
		AMBLW	Limited wavelength Amber 591 Nanometers			

Finish		Optional Louvers Painted ⁹	
BL Black	STG Steel Gray	___/PL Louvers painted to match fixture (top only)	
BZ Bronze	TVG Terra Verde Green		
DDB Dark Bronze	WH White		
DNA Natural Aluminum	CF Custom		
GN Green	___Z⁸ Zinc Undercoat		
GR Gray	RALTB RAL Paint Finishes		
SND Sand	Note: RALTB for pricing only, replace with applicable RAL call out when ready to order. See the RALBROCHURE for available options. It is recommended that Hydrel products only use textured paint.		

ELECTRICAL LOAD

Light Engines	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
8 COB	250mA	72.35	0.603	0.348	0.301	0.261	0.209	0.151
	300mA	83.95	0.700	0.404	0.350	0.303	0.242	0.175

PROJECTED LED LUMEN MAINTENANCE

Data references the extrapolated performance projections for the Fixture platform in a 25°C ambient, based on 13,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11). To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.91	0.85	0.75

- Notes:
- 4COB for use with 20K and AMBLW only, 20K and AMBLW require 4COB.
 - Required with ELN or BLS.
 - FT not available with BLS.
 - BLS is not available with ELN, LDIM or IDIM.
 - ELN and BLS require 120 or 277 voltage, not MVOLT or 347.
 - Drive current will be 250.
 - ELN not available on 24" height.
 - Add zinc undercoat for harsh environments.
 - Louvers will be black unless otherwise specified (top only).

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	1.05
10°C	1.03
20°C	1.01
25°C	1.00
30°C	0.99
40°C	0.98

Lighting facts
A Program of the U.S. DOE

Light Output (Lumens) 1534
Watts 83.95
Lumens per Watt (Efficacy) 18

Color Accuracy
Color Rendering Index (CRI) 84

Light Color
Correlated Color Temperature (CCT) 4028 (Bright White)

2700K 3000K 4500K 6500K

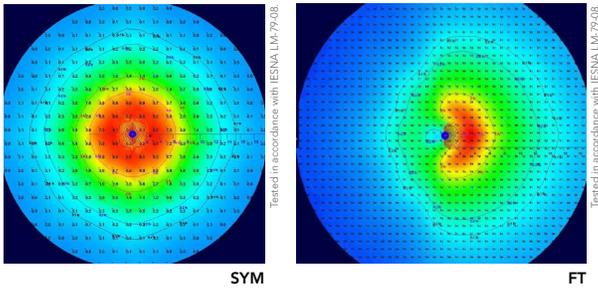
All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: DHMB-SWXOUI (7/23/2014)
Model Number: 3100 8COB 40K SYM
Type: Luminaire - Bollard

PERFORMANCE DATA

Isocandela plots for 3100 COB. To see complete photometric reports or download .ies files for this product, visit www.hydreel.com/



LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact Factory for performance data on any configuration not shown here.

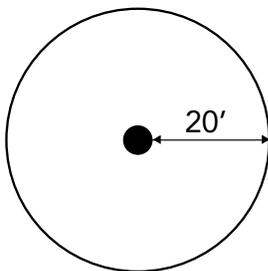
Light Engines	Distribution	Drive Current	System Watt	Lumens	LPW	B	U	G
3000K	SYM	250*	72	1300	18	1	2	1
		300	84	1525	18	1	2	1
4000K	SYM	250*	72	1320	18	1	2	1
		300	84	1535	18	1	2	1
5000K	SYM	250*	72	1535	21	1	2	1
		300	84	1810	22	2	2	1
2000K	SYM	1050	72	900	13	1	2	1

*Used with IDIM and BLS options.

LED LIFE: L80/64,000 hours

OPERATING TEMPERATURE: -20°C Through 50°C

APPROXIMATE MOTION SENSOR COVERAGE AREA:



SPECIFICATIONS AND FEATURES

MATERIAL: Copper-free aluminum, A360.

LED ARRAY: 72W and 84W (total system input wattage) Lumen maintenance of individual light sources have been independently tested to IESNA LM-80 standards. All within 3 MacAdam ellipses.

VOLTAGE: MVOLT 50/60Hz, 120, 277 or 347

DISTRIBUTION: SYM - Symmetric, FT - Forward Throw

LENS: Frosted borosilicate glass.

POWER SUPPLY: Integrally mounted LED driver run at 300mA, -20°C through 50°C standard.

FINISH: Super durable polyester TGIC powder coat finish (standard). Optional zinc undercoat for harsh environments.

FASTENERS: Stainless Steel.

LISTING: cCSAus, suitable for wet locations, laboratory tests conducted by CSA to UL Standard UL-1598 and UL-8750.

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY: 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Consult factory for details.

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



iRAIL™ LIGHTED RAILING SYSTEM PRODUCT DATA



DESIGN + ENGINEER + FABRICATE + INSTALL



iRAIL™ LED SYSTEM

Our iRAIL System is a LED illuminated version of our 1.5” diameter rails. iRAIL uses an ADA compliant roll-formed (monolithic) slotted rail, that houses a high-performance LED assembly.

VIVA iRAIL uses a specially designed LED that can provide full-length coverage of illumination for whatever your rail run may be, compared to the traditional LED railing assemblies that were only available in preset section lengths.

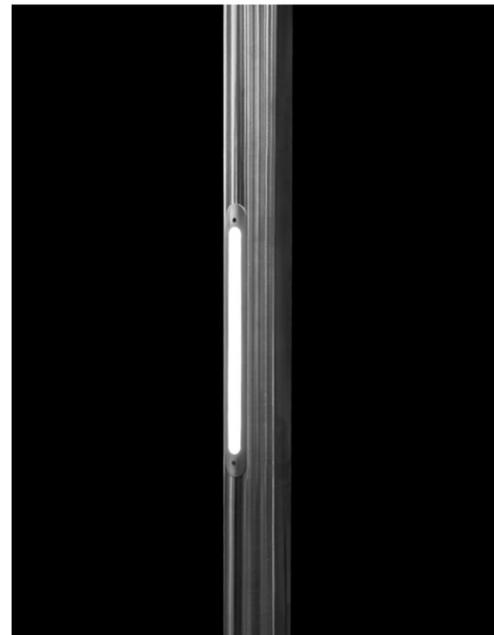
LINEAR



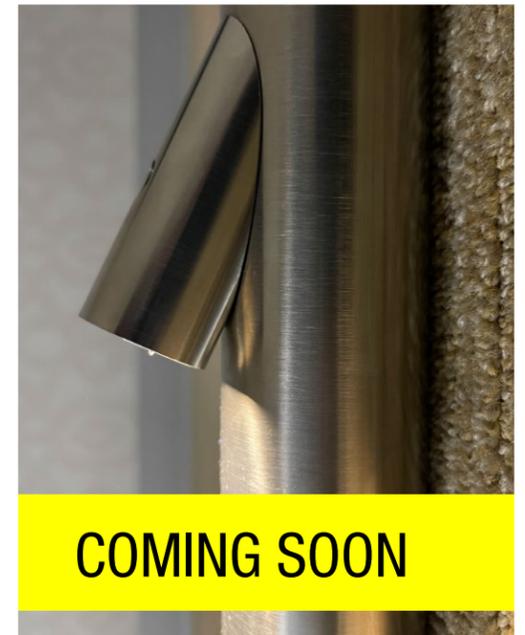
PODS



CAPSULE



SCONCE



iRAIL™ LED SYSTEM - TECHNICAL DATA



	TOP RAIL / HAND RAIL	FINISH	SPEC
iRAIL LINEAR (CONTINUOUS iRAIL)	Ø1-1/2" Stainless Steel (304 or 316)	#6 Satin	Color: 3000K Warm White or 4000K Cool White ² Output: Medium: 3 Watt/ft – 185 lumens/ft. High: 5 Watt/ft – 250 lumens/ft. Beam Angle: 120° Orientation: Symmetrical or Asymmetrical at 30° Power: Input 120 - 277 V AC, Output 12 V DC Lens: Clear or Frosted CRI: >90 Rating: IP67
	Ø1-1/2" Stainless Steel 201	Powder Coat	
	Ø2" Wood (Red Oak, White Oak, Cherry or Maple) ²	Unstained	
iRAIL PODS	Ø1-1/2" Stainless Steel (304 or 316)	#6 Satin	Color: 3000K Warm White or 4000K Cool White ² Output: 1.5 Watt - 130 lumens for sym., 106 lumens for Asym. per pod Beam Angle: 60° Orientation: Symmetrical or Asymmetrical at 22° Power: Input 100 - 305 V AC, Output 12 V DC CRI: >80 Rating: IP67
	Ø1-1/2" Stainless steel (201)	Powder Coat	
	Ø2" Stainless Steel (304 or 316)	#6 Satin	
	Ø2" Stainless Steel (201)	Powder Coat	
iRAIL CAPSULE	POST	FINISH	SPEC
	Ø2" Post Stainless steel (304 or 316) 2"x2"Post Stainless steel(304 or 316)	#6 Satin	Color: 3000K Warm White or 4000K Cool White Output: 1.5W-117 Lumens Sym, 2.5W-190 Lumens Sym, 3.5W-248 Lm Sym. Beam Angle: 120° Orientation: Symmetrical 0° Power: Input 120-277 VAC, Output 24 V DC CRI: >80 Rating: IP67
Ø2" Post Stainless steel (201) 2"x2"Post Stainless steel (201)	Powder Coat		



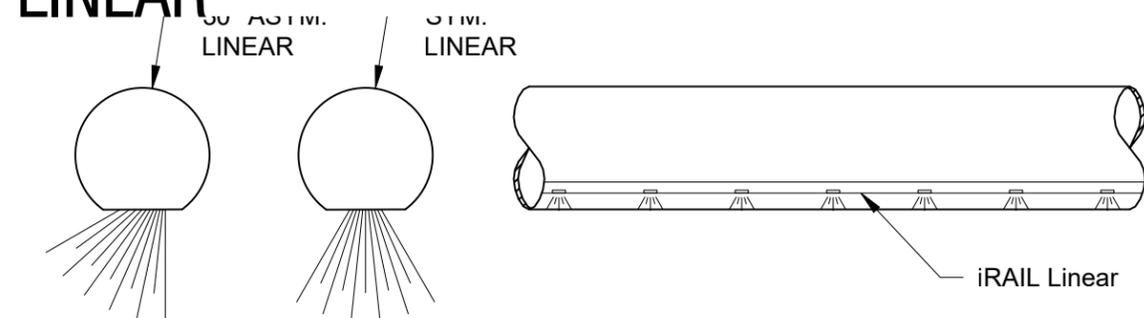
All LED LINEAR products are ETL certified; ETL mark is proof of product compliance to North American safety standard.

2. Other species available upon request



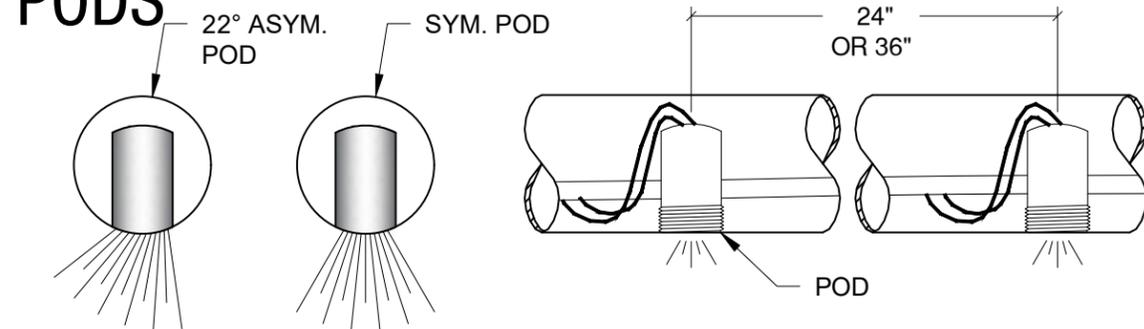
LIGHTED TOPRAIL / HANDRAIL

LINEAR



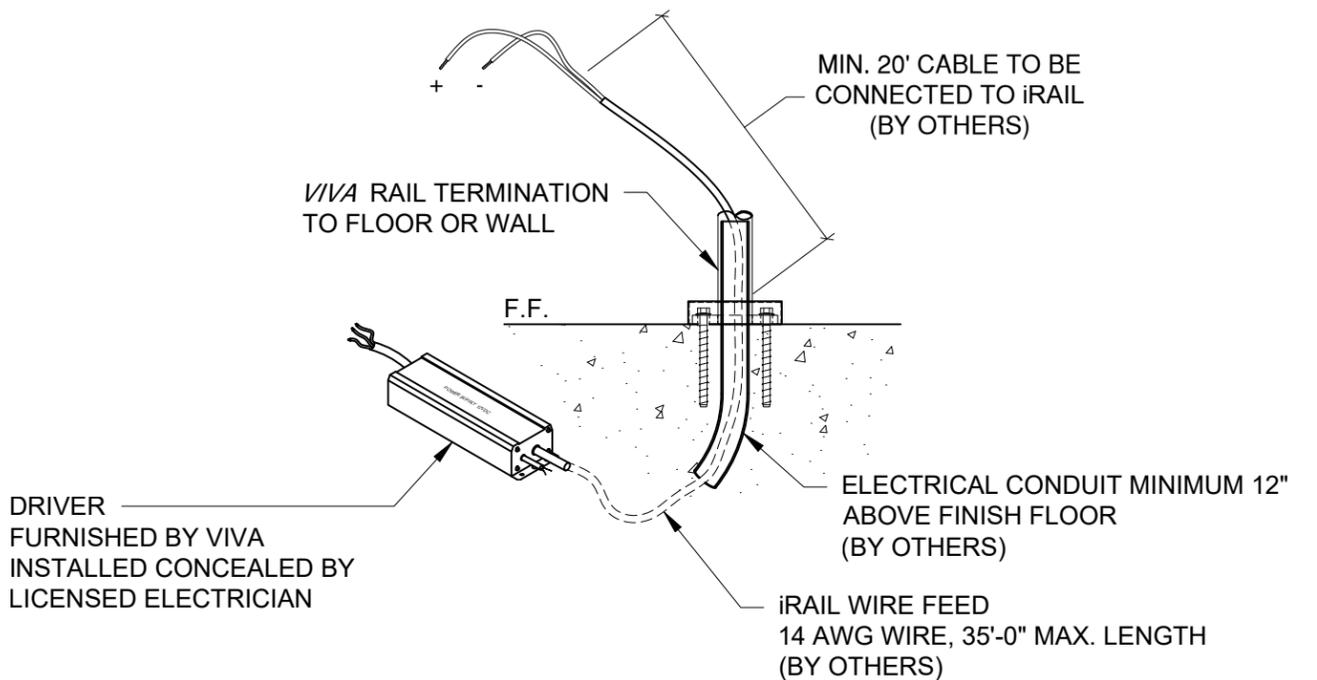
iRAIL LINEAR ORIENTATION OPTIONS

PODS



iRAIL POD ORIENTATION OPTIONS

iRAIL POD SPACING OPTIONS

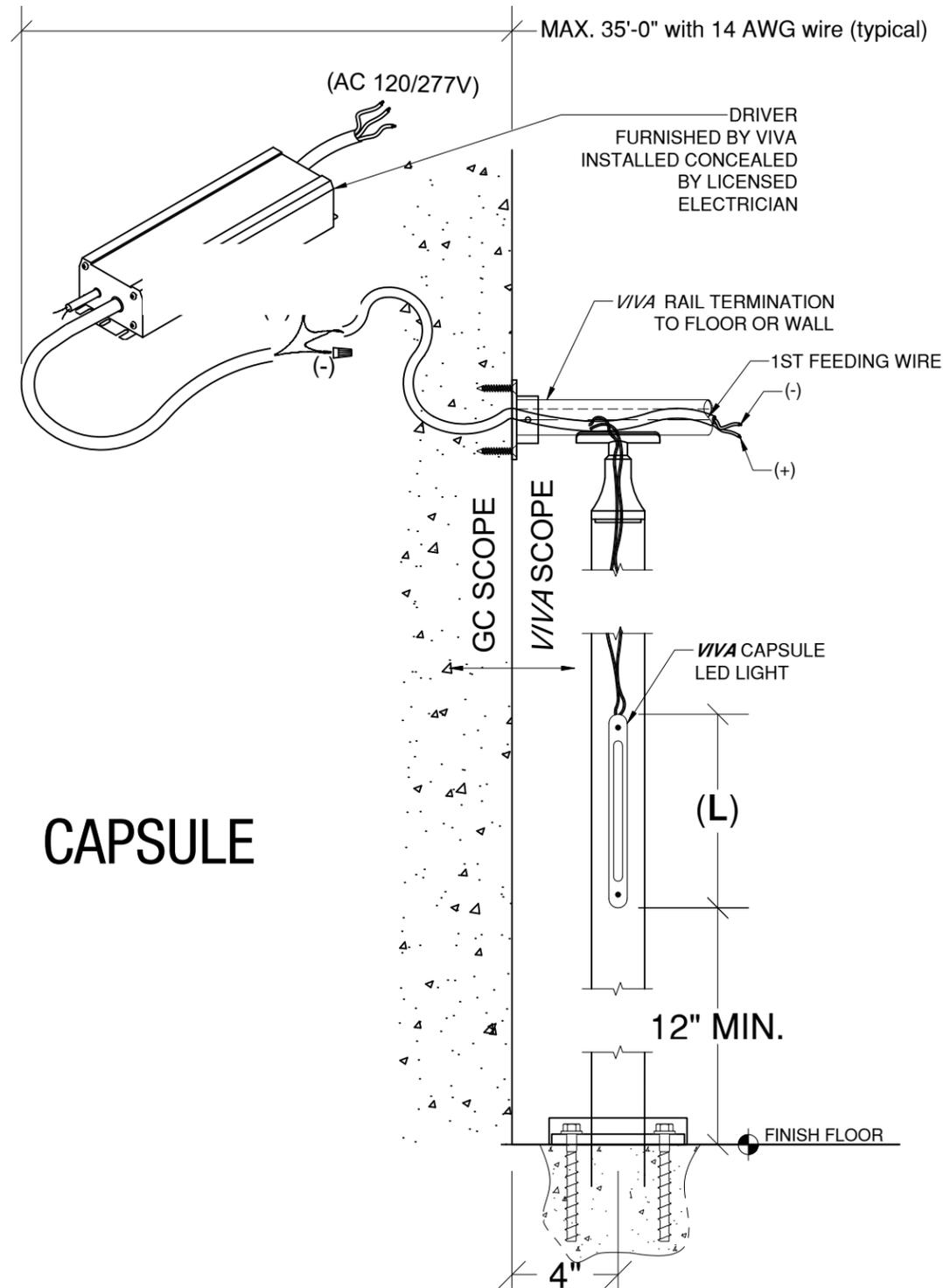


PROVIDE ONE PAIR OF WIRES 14 GA (BLACK-RED) FOR EVERY iRAIL RUN. EVERY iRAIL RUN COVERS:

- 32ft MAX FOR iRAIL LINEAR MEDIUM INTENSITY (3 W/ft)
- OR 16ft MAX FOR iRAIL LINEAR HIGH INTENSITY (5 W/ft)
- OR 32ft MAX FOR iRAIL POD



LIGHTED POST



CAPSULE

SPECIFICATIONS:

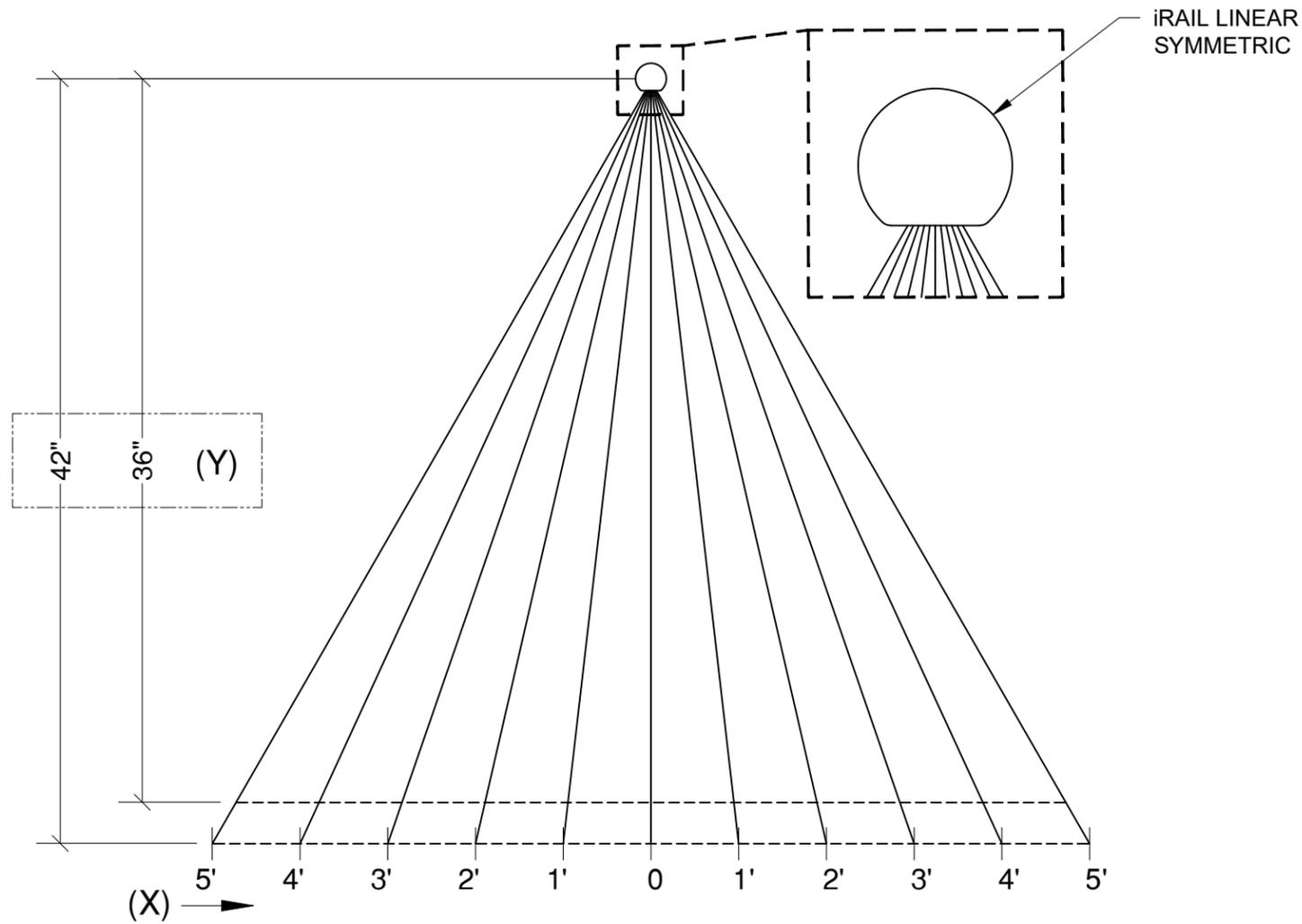
- Color Temp
 - 3000K Warm White or 4000K Cool White
- Power
 - 1.5 W/light (S18R185)
 - 2.5 W/light (S18R285)
 - 3.5 W/light (S18R385)
- Length (L)
 - 185mm (S18R185)
 - 285mm (S18R285)
 - 385mm (S18R385)
- Output:
 - 117lm Sym. (S18R185)
 - 190lm Sym. (S18R285)
 - 248lm Sym. (S18R385)
- Beam angle: 120°
- Orientation
 - Symmetrical 0°
- Input: 24 V DC
- Power Supply:
 - Input 120-277 V Drivers:
 - 60W, 120W or 240W
- CRI: >80
- LED life: 50,000 hours
- Maximum distance of wire feed location to driver is 35'-0" using 14 AWG wire.

DRIVER SPECIFICATION			
INPUT	OUTPUT	POWER (WATT)	DIMENSIONS LxWxH" (mm)
100~277 VAC 1.6~0.6 A	24 VDC	100 W	8.25x2.5X0.8"

VIVA RAILINGS IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF ANY BUILDING SYSTEMS OR OTHER MATERIALS NOT FURNISHED BY VIVA RAILINGS. VIVA RAILINGS HAS NO WAY OF KNOWING AND SPECIFICALLY DISCLAIMS WHETHER OR NOT THE BUILDING SYSTEMS TO WHICH VIVA RAILINGS' PRODUCTS ARE TO BE ATTACHED ARE STRUCTURALLY SOUND OR DESIGNED TO PROPERLY SUPPORT VIVA RAILINGS'S MATERIALS. ANY SUCH DESIGN RESPONSIBILITY BELONGS TO OTHERS FOR WHOM VIVA RAILINGS IS NOT RESPONSIBLE. THESE DRAWINGS ARE INTENDED FOR THE SOLE USE OF VIVA RAILINGS' CUSTOMER AND THEIR AGENTS FOR THE INSTALLATION OF PRODUCTS FURNISHED BY VIVA RAILINGS. VIVA RAILINGS REMAINS THE SOLE OWNER OF ALL DESIGNS AND INTELLECTUAL PROPERTY CONTAINED WITHIN. REPRODUCTION AND USE OF THESE DESIGNS FOR ANY OTHER PURPOSE IS FORBIDDEN. SCALES ARE PROVIDED FOR REFERENCE ONLY. FOR PRODUCT INFORMATION AND TECHNICAL SUPPORT, PLEASE CONTACT VIVA RAILINGS.



LINEAR DISPERSION DIAGRAM



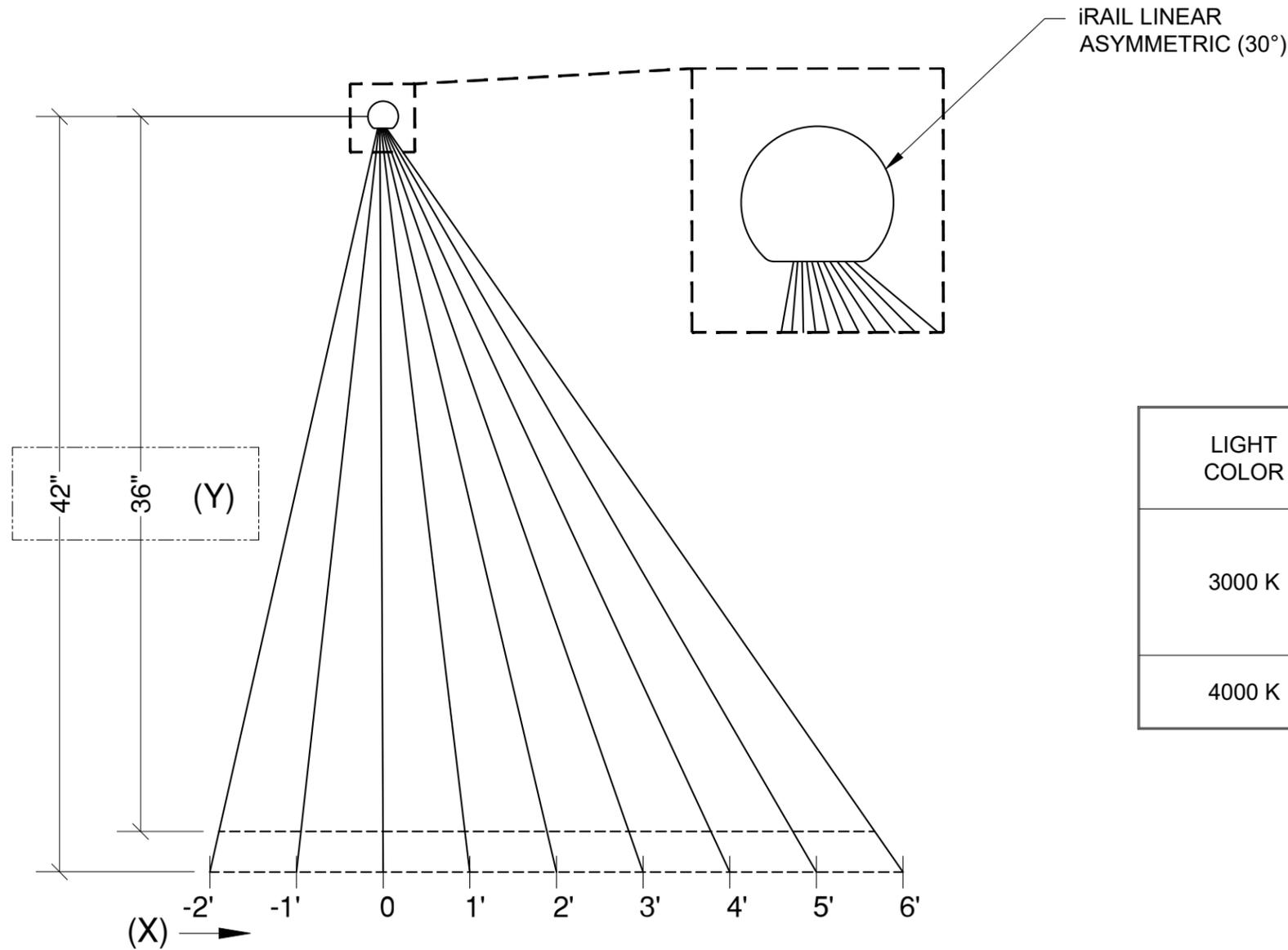
iRAIL LINEAR LIGHT DISPERSION DIAGRAM
All Values in Foot-Candle (FC) +/-15%, Values using clear lens.

LIGHT COLOR	INTENSITY (OUTPUT)	POWER	X \ Y		0'	1'	2'	3'	4'	5'
			Y	X						
3000 K	MEDIUM 185 lumens/ft	3 W/ft	36"		44.1	30.3	15.6	7.7	4.1	2.3
			42"		38.3	28.7	16.2	8.3	4.9	2.8
	HIGH 250 lumens/ft	5 W/ft	36"		59.5	41.2	20.8	10.3	5.5	3.0
			42"		52.3	39.3	21.9	11.4	6.6	3.8
4000 K	MEDIUM 185 lumens/ft	3 W/ft	36"		44.5	31.6	15.2	7.2	3.8	2.2
			42"		38.7	29.6	16	8.3	4.5	2.7
	HIGH 250 lumens/ft	5 W/ft	36"		61.7	43.9	21.6	10.5	5.3	3.1
			42"		54.3	42.2	22.6	12	6.4	3.7

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POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 18")

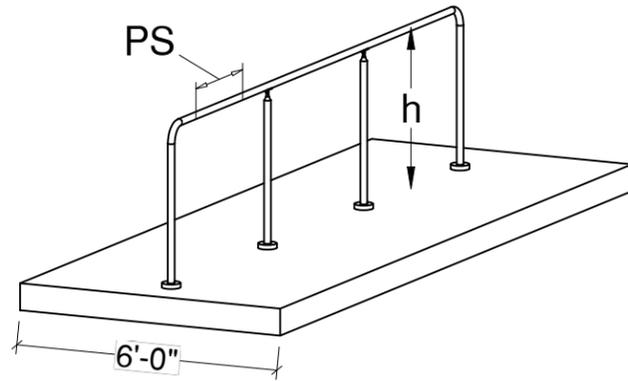


iRAIL LINEAR LIGHT DISPERSION DIAGRAM
All Values in Foot-Candle (FC) +/-15%, Values using clear lens.

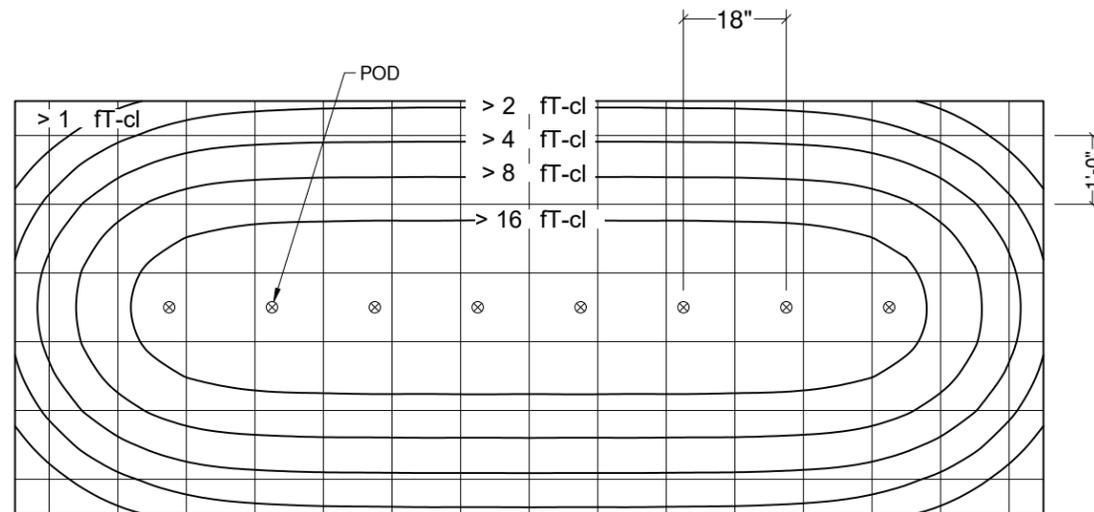
LIGHT COLOR	INTENSITY (OUTPUT)	POWER	X \ Y		-2'	-1'	0'	1'	2'	3'	4'	5'
			Y	X								
3000 K	MEDIUM 185 lumens/ft	3 W/ft	36"		7.3	18	37.1	53.1	43.9	26.1	14.9	9.1
			42"		8.0	16.8	30.6	43.3	40.8	27.8	17.2	10.1
	HIGH 250 lumens/ft	5 W/ft	36"		8.0	17.7	38.4	57.3	46.2	28.3	15.6	9.3
			42"		8.4	16.8	31.7	46.9	42.7	30	18.3	11.1
4000 K	MEDIUM 185 lumens/ft	3 W/ft	36"		5.5	13.4	27.0	39.3	32.3	19.2	10.6	6.6
			42"		6.0	12.6	22.3	31.7	29.7	21.0	12.4	7.6



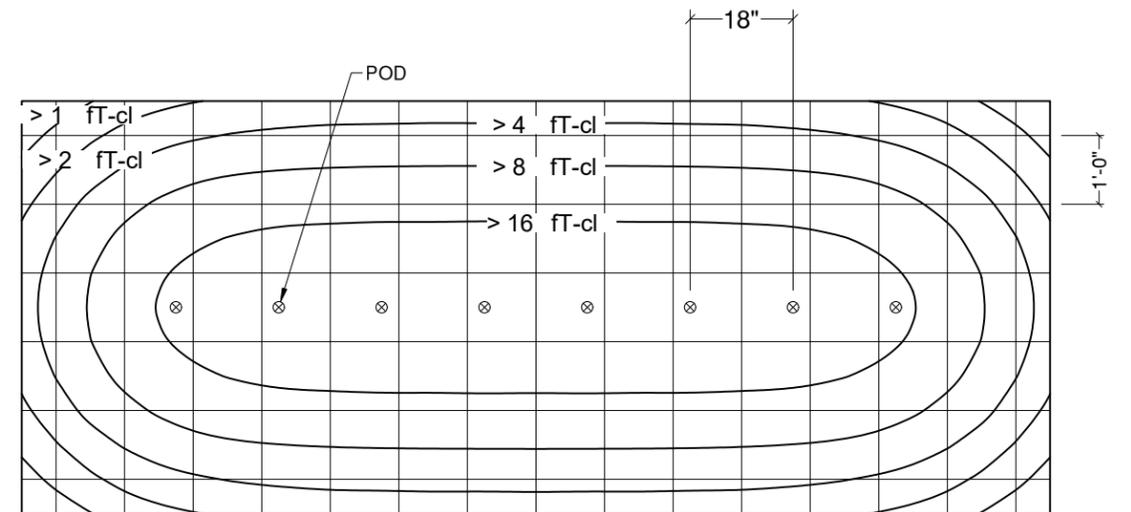
POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 18")



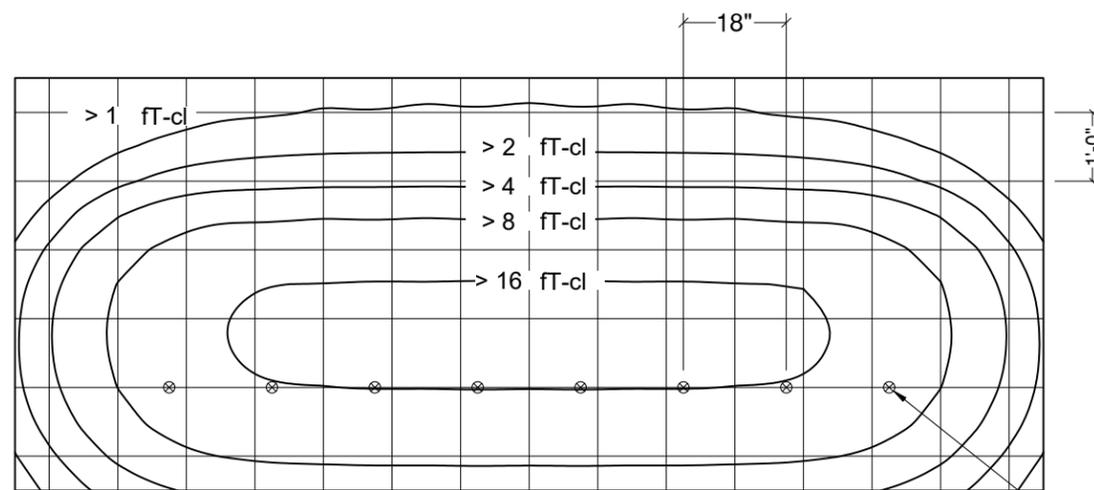
h: Illuminated Rail Height
PS(Pod Spacing) = 18"



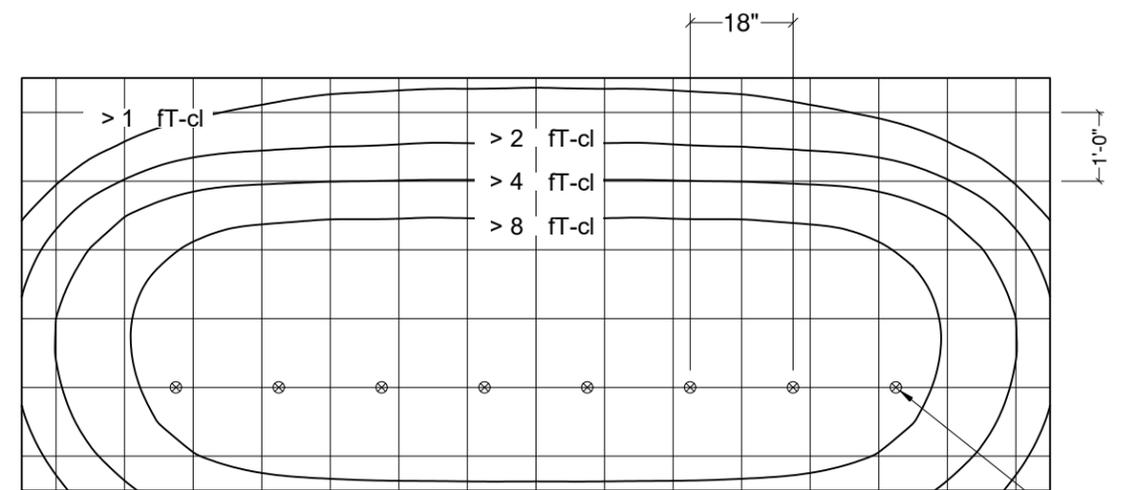
PLAN VIEW, h=36", PS=18", SYMMETRIC PODS
FC: MAX=19.8, MIN=0.2, AVE.=6.1



PLAN VIEW, h=42", PS=18", SYMMETRIC PODS
FC: MAX=16.9, MIN=0.3, AVE.=6.0



PLAN VIEW, h=36", PS=18", ASYMMETRIC PODS
FC: MAX=16.0, MIN=0.1, AVE.=5.1

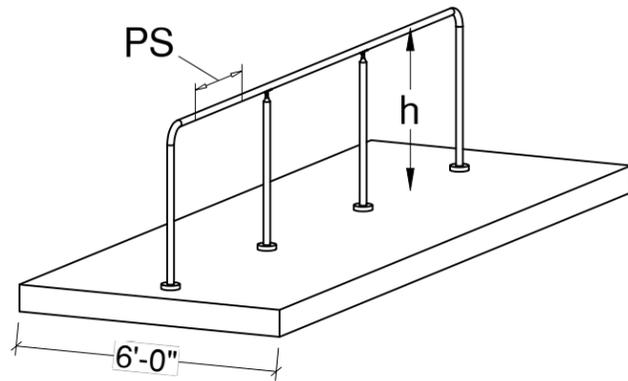


PLAN VIEW, h=42", PS=18", ASYMMETRIC PODS
FC: MAX=13.5, MIN=0.1, AVE.=5.0

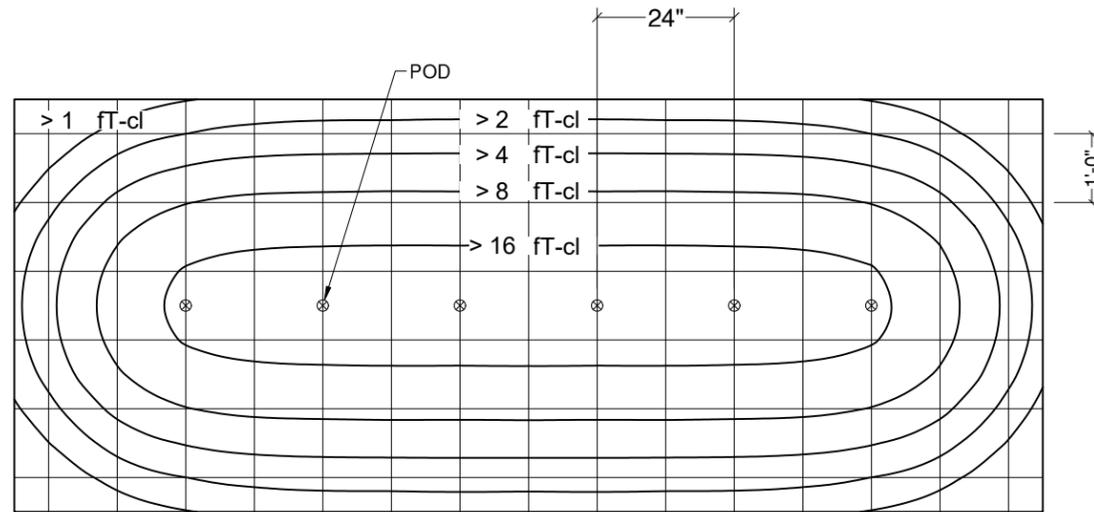
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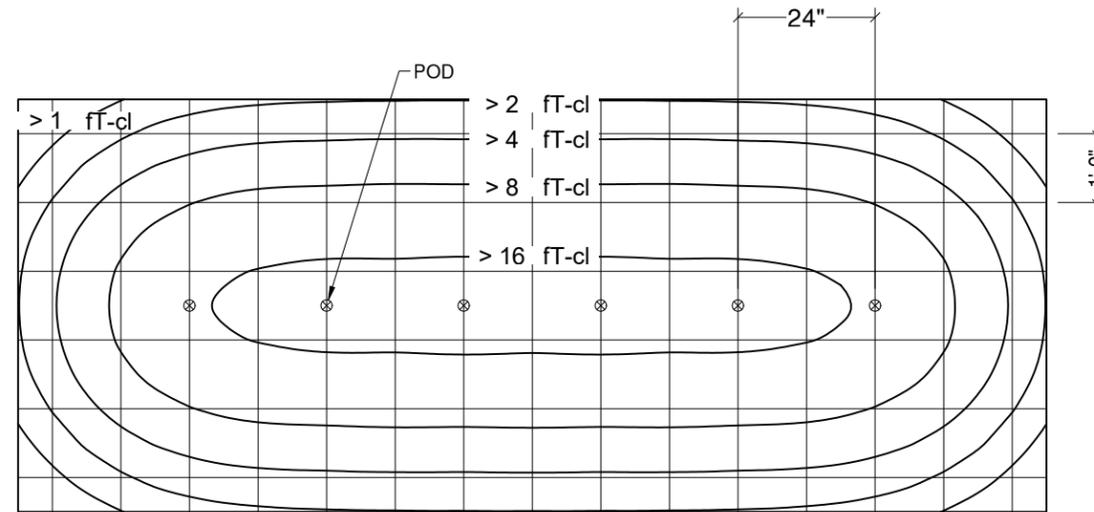
POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 24")



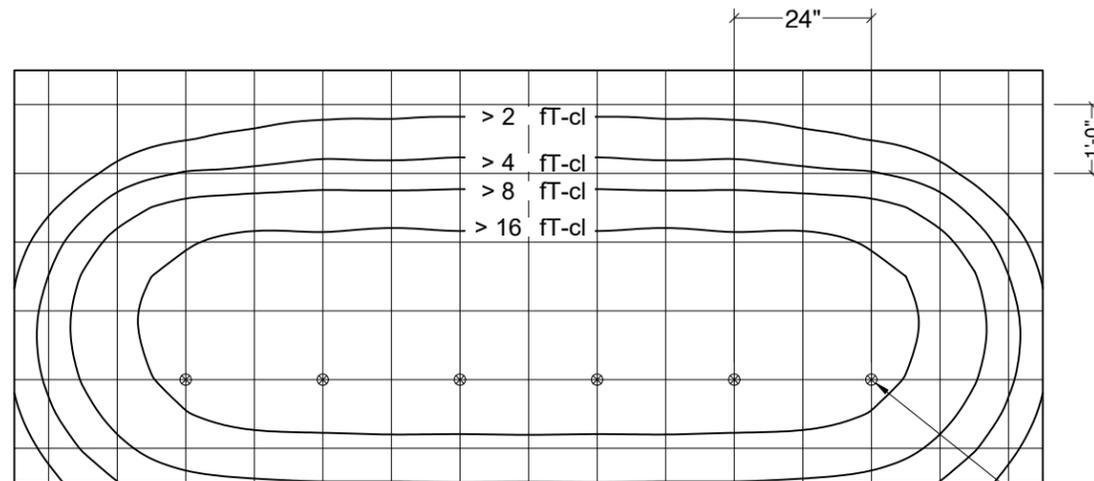
h: Illuminated Rail Height
PS(Pod Spacing) = 24"



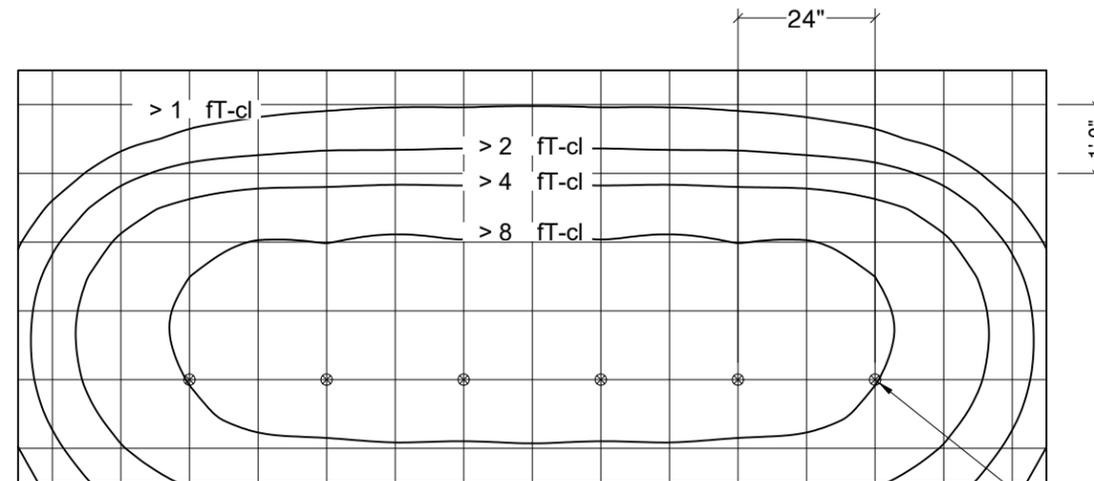
PLAN VIEW, h=36", PS=24", SYMMETRIC PODS
FC: MAX=14.9, MIN=0.1, AVE.=4.6



PLAN VIEW, h=42", PS=24", SYMMETRIC PODS
FC: MAX=12.7, MIN=0.2, AVE.=4.5



PLAN VIEW, h=36", PS=24", ASYMMETRIC PODS
FC: MAX=11.9, MIN=0.1, AVE.=3.8

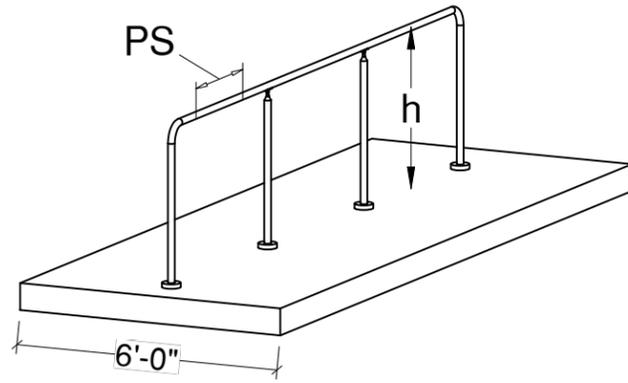


PLAN VIEW, h=42", PS=24", ASYMMETRIC PODS
FC: MAX=10.1, MIN=0.1, AVE.=3.7

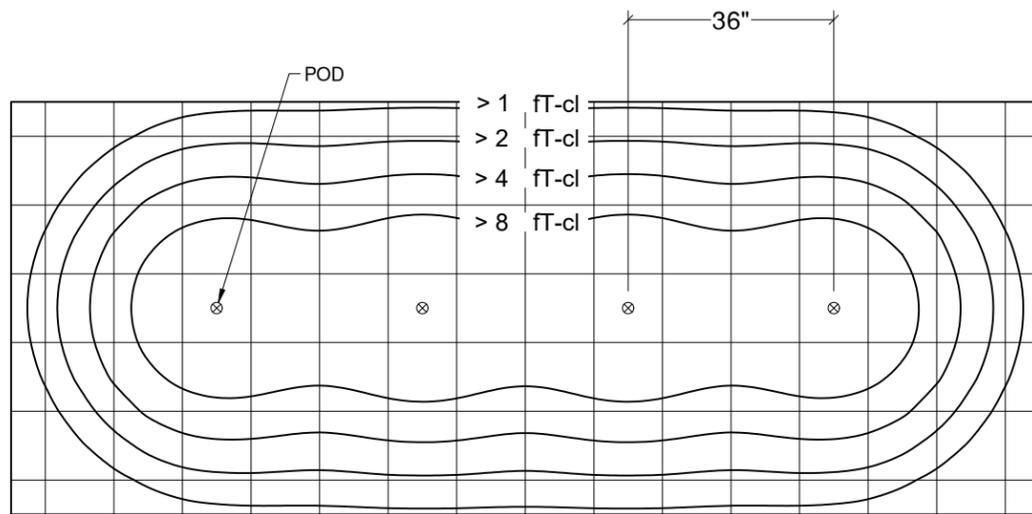
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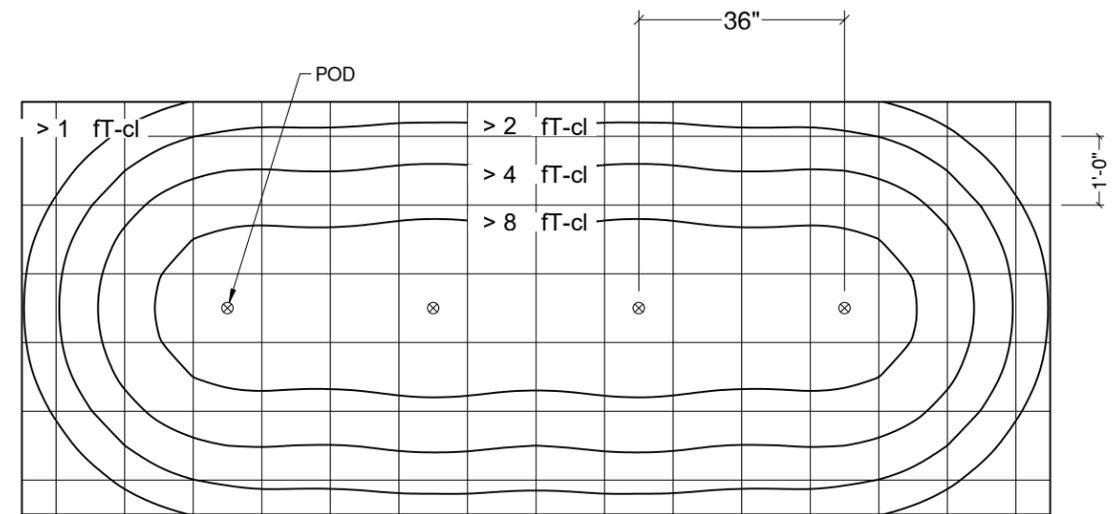
POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 36")



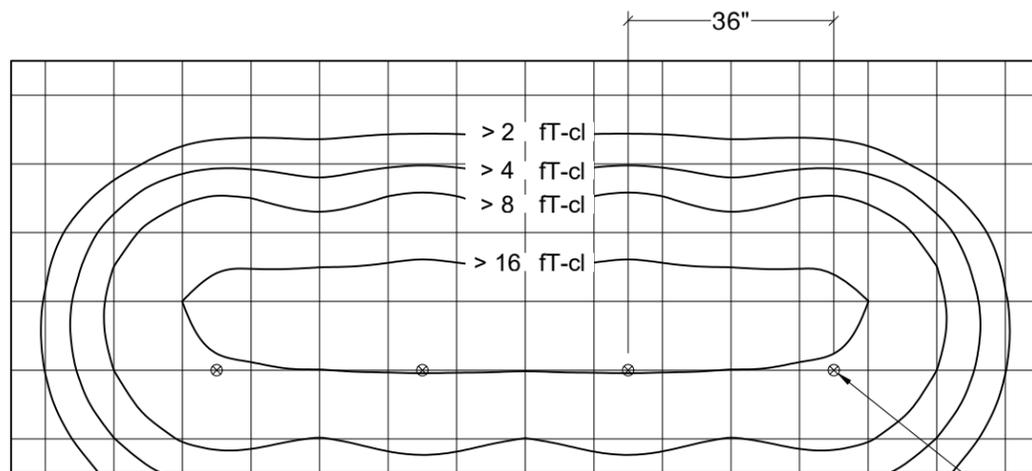
h: Illuminated Rail Height
PS(Pod Spacing) = 36"



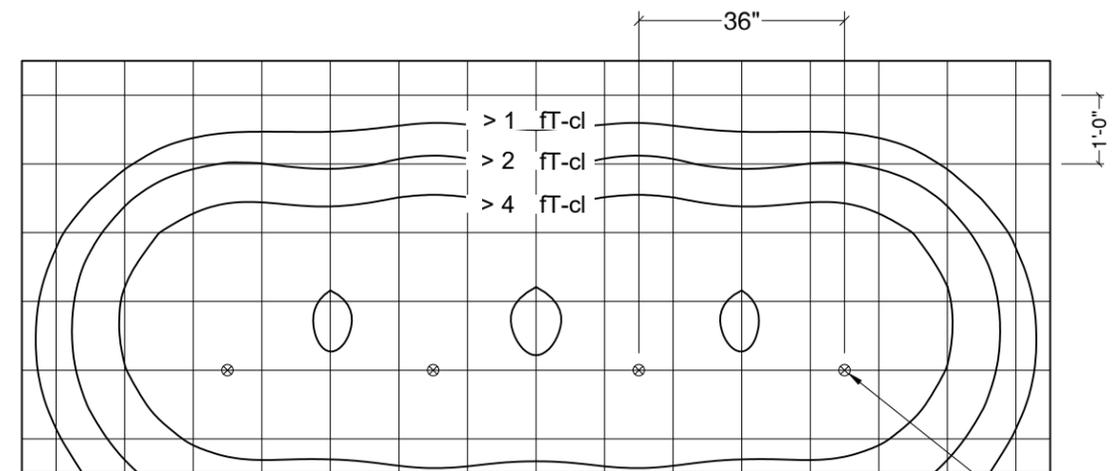
PLAN VIEW, h=36", PS=36", SYMMETRIC PODS
FC: MAX=10.9, MIN=0.1, AVE.=3.0



PLAN VIEW, h=42", PS=36", SYMMETRIC PODS
FC: MAX=8.6, MIN=0.1, AVE.=3.0



PLAN VIEW, h=36", PS=36", ASYMMETRIC PODS
FC: MAX=8.9, MIN=0.0, AVE.=2.5

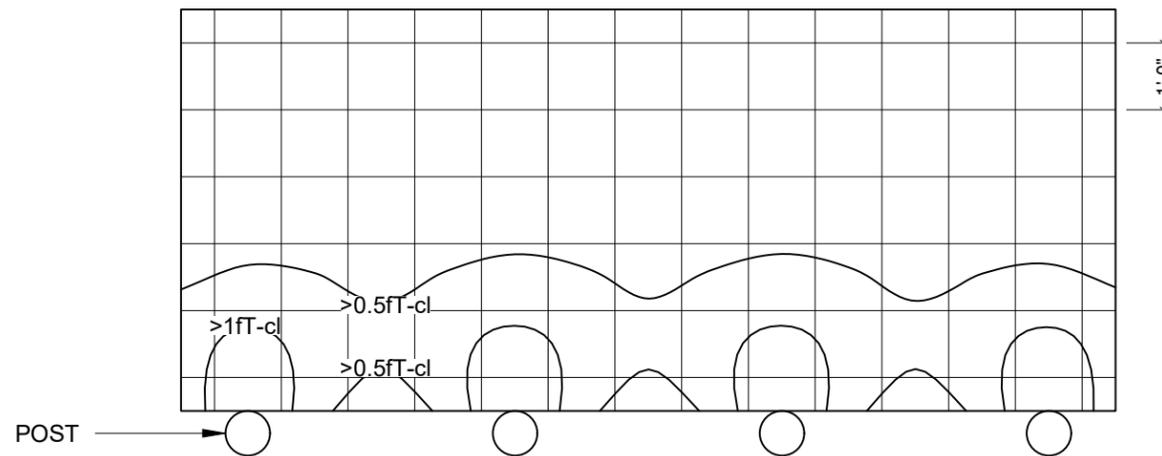
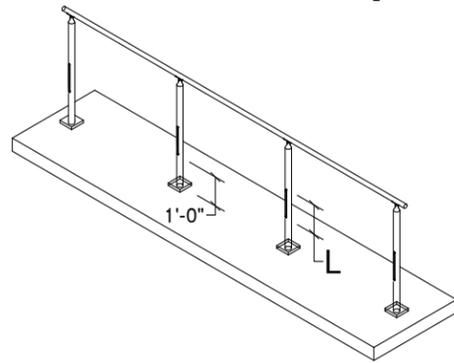


PLAN VIEW, h=42", PS=36", ASYMMETRIC PODS
FC: MAX=6.8, MIN=0.1, AVE.=2.5

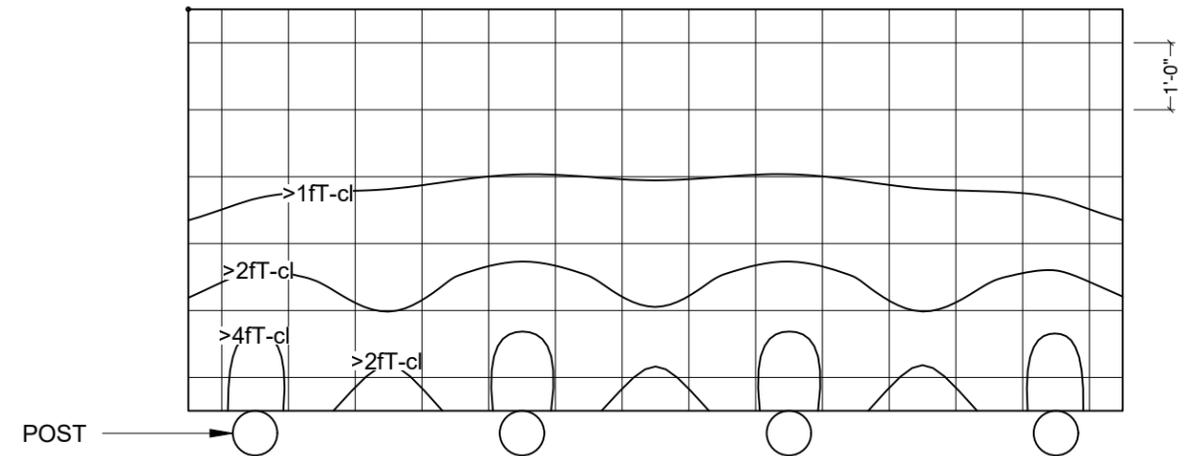
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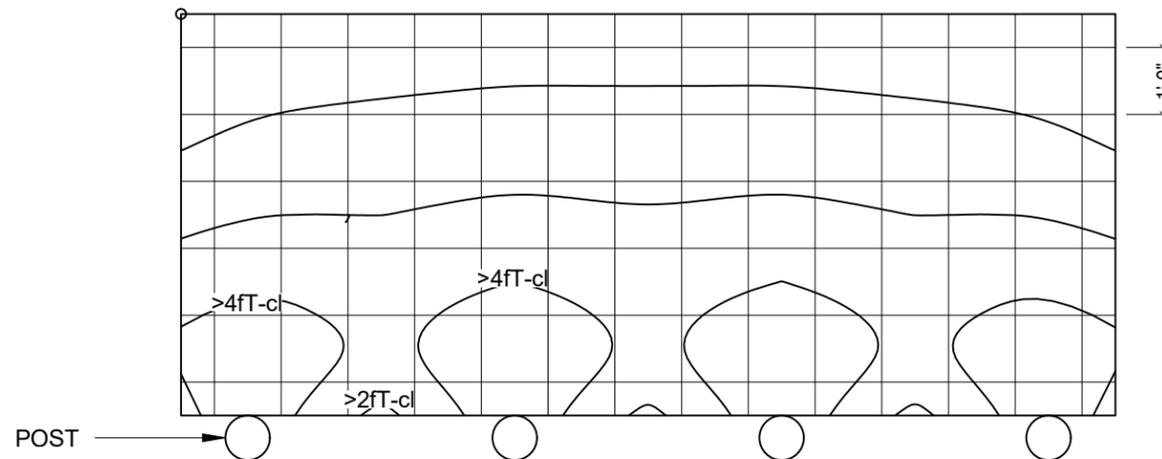
CAPSULE Dispersion Diagram



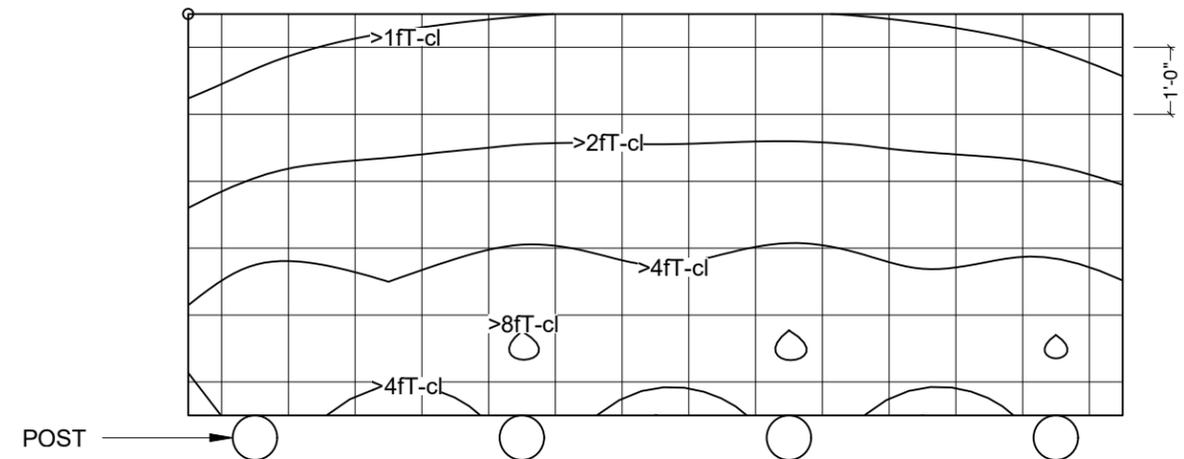
ISO FOOT CANDLE DISPERSION PLAN VIEW,
h (iRAIL HEIGHT)= 1'-0", w/ 85mm CAPSULE LENGTH (L)



ISO FOOT CANDLE DISPERSION PLAN VIEW,
h (iRAIL HEIGHT)= 1'-0", w/ 185mm CAPSULE LENGTH (L)



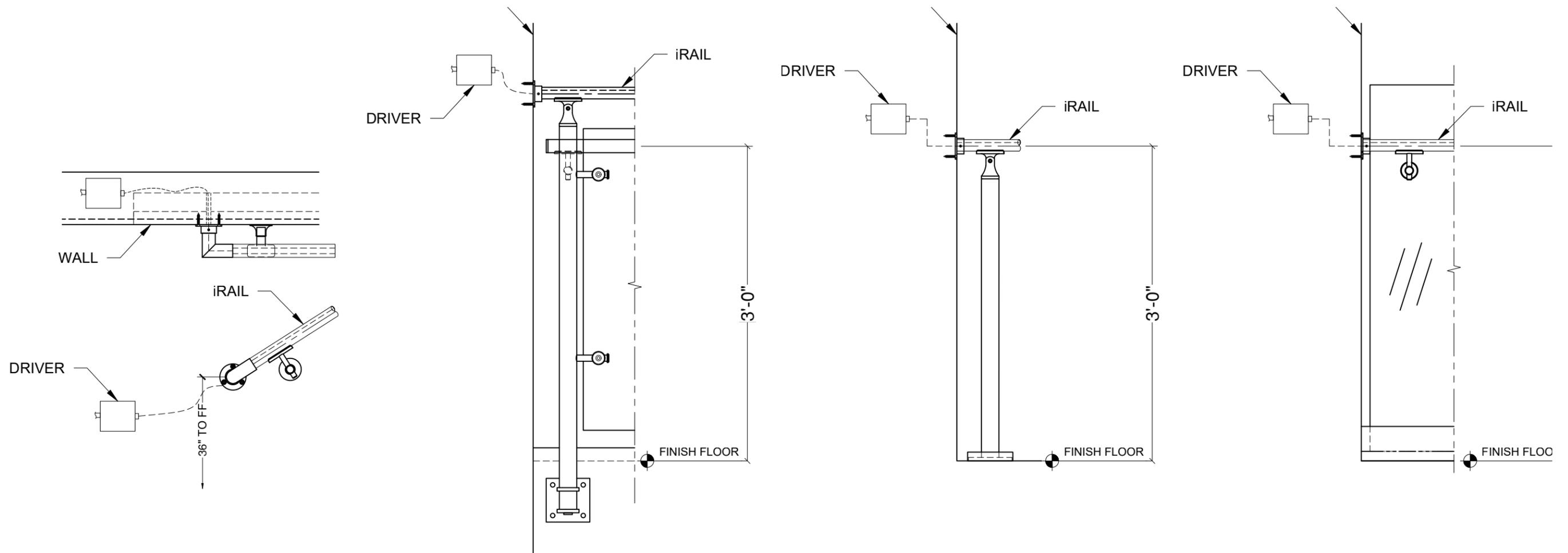
ISO FOOT CANDLE DISPERSION PLAN VIEW,
h (iRAIL HEIGHT)= 1'-0", w/ 285mm CAPSULE LENGTH (L)



ISO FOOT CANDLE DISPERSION PLAN VIEW,
h (iRAIL HEIGHT)= 1'-0", w/ 385mm CAPSULE LENGTH (L)



WIRE FEED OPTION



Illuminated WallRail
Detail# IR-W01

Illuminated Handrail or
Top Rail
Detail# IR-W02

Illuminated FSR
Detail# IR-W03

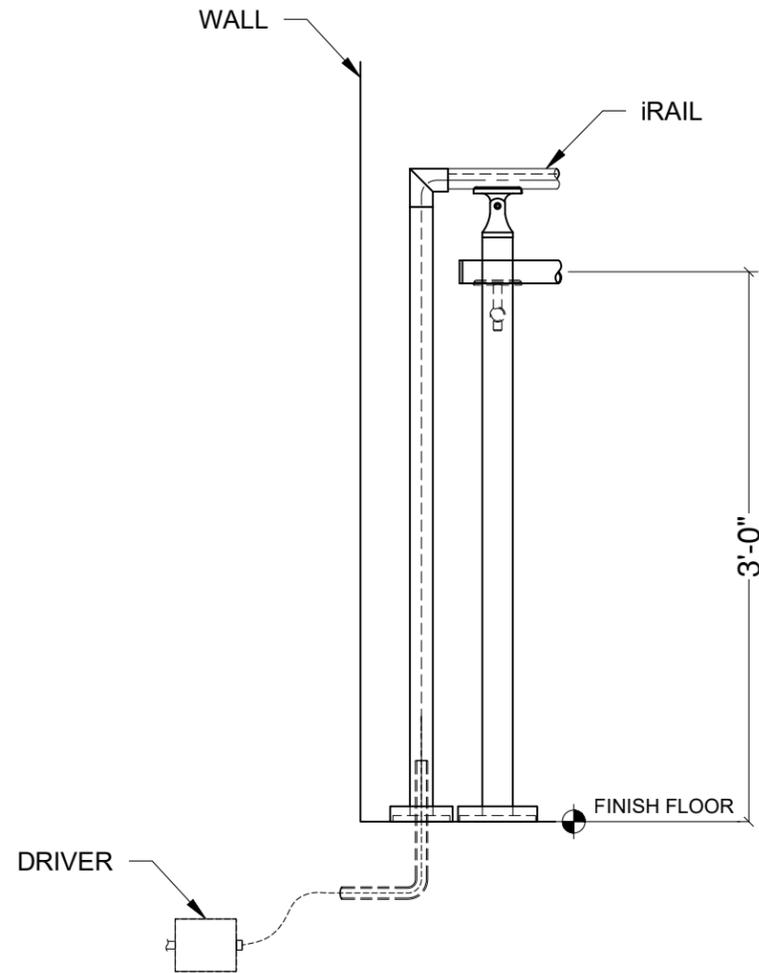
Illuminated Shoe Handrail
Detail# IR-W04

*WALL OR FLOOR WIRE FEED ENTRY REQUIRED AT RAILING TERMINAL POINT. TYP.

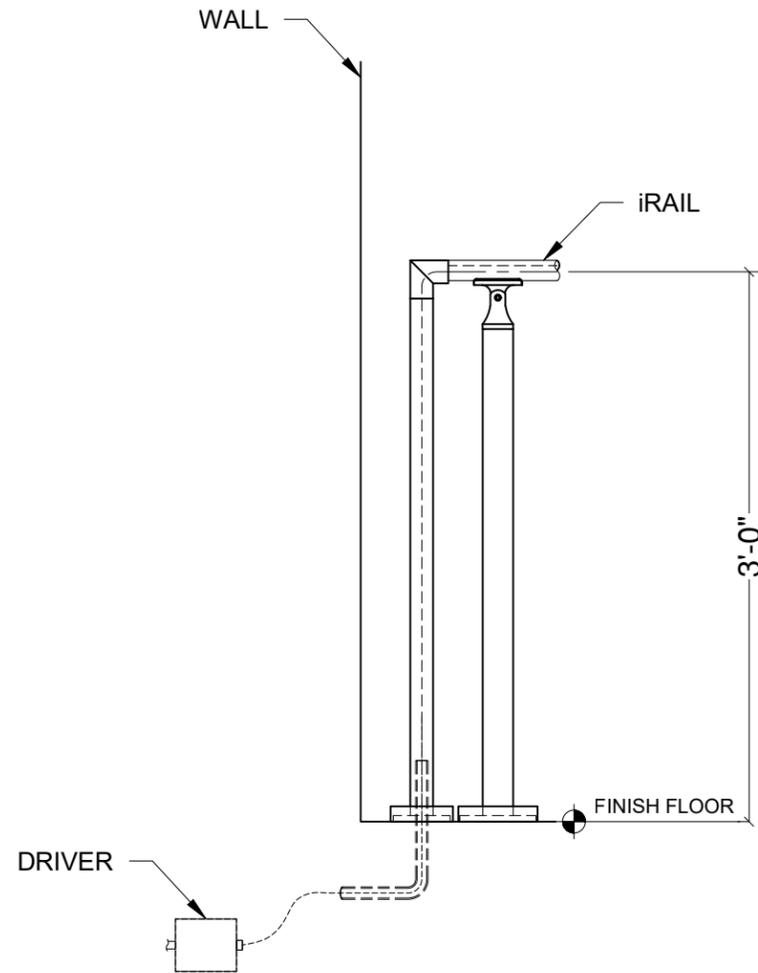
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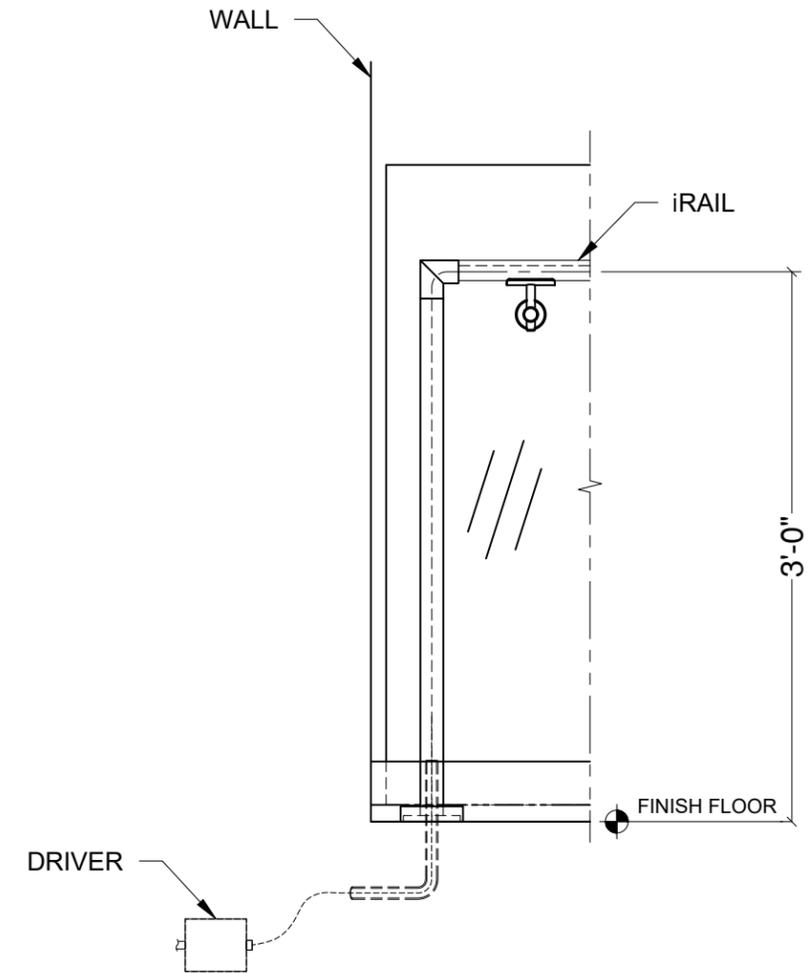
WIRE FEED OPTION



Illuminated Handrail or
Top Rail
Detail# IR-W02



Illuminated FSR
Detail# IR-W03



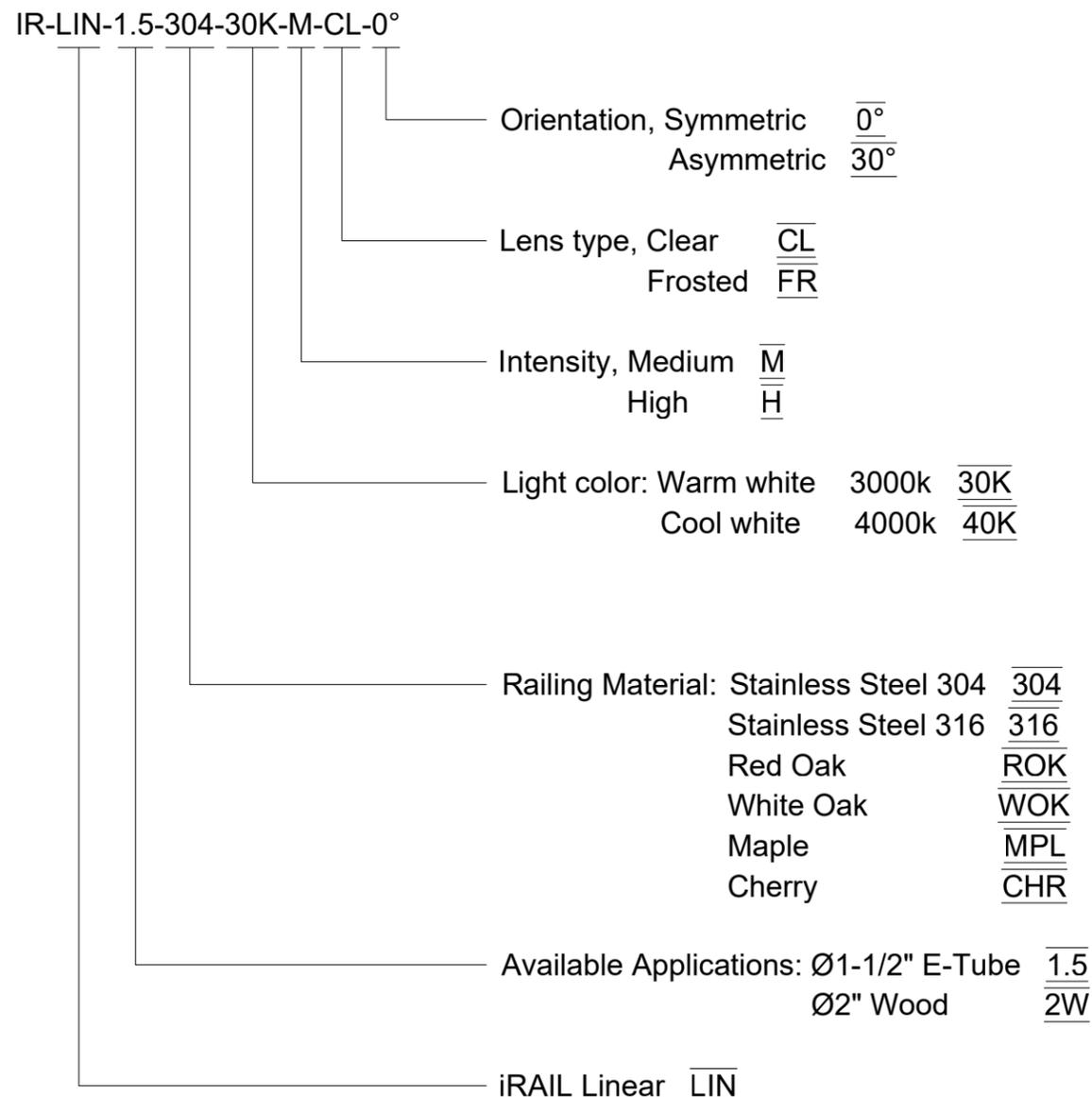
Illuminated Shoe Handrail
Detail# IR-W04

*WALL OR FLOOR WIRE FEED ENTRY REQUIRED AT RAILING TERMINAL POINT
TYP.



ORDER CODE

iRAIL LINEAR ORDER CODE:

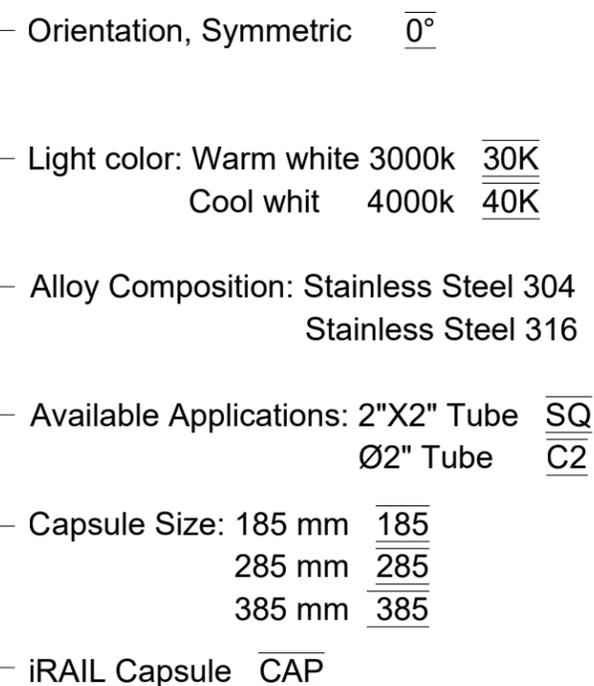


IR-POD-1.5-304-30K-0°



iRAIL CAPSULE ORDER CODE:

IR-CAP-185-C2-304-30K-0°

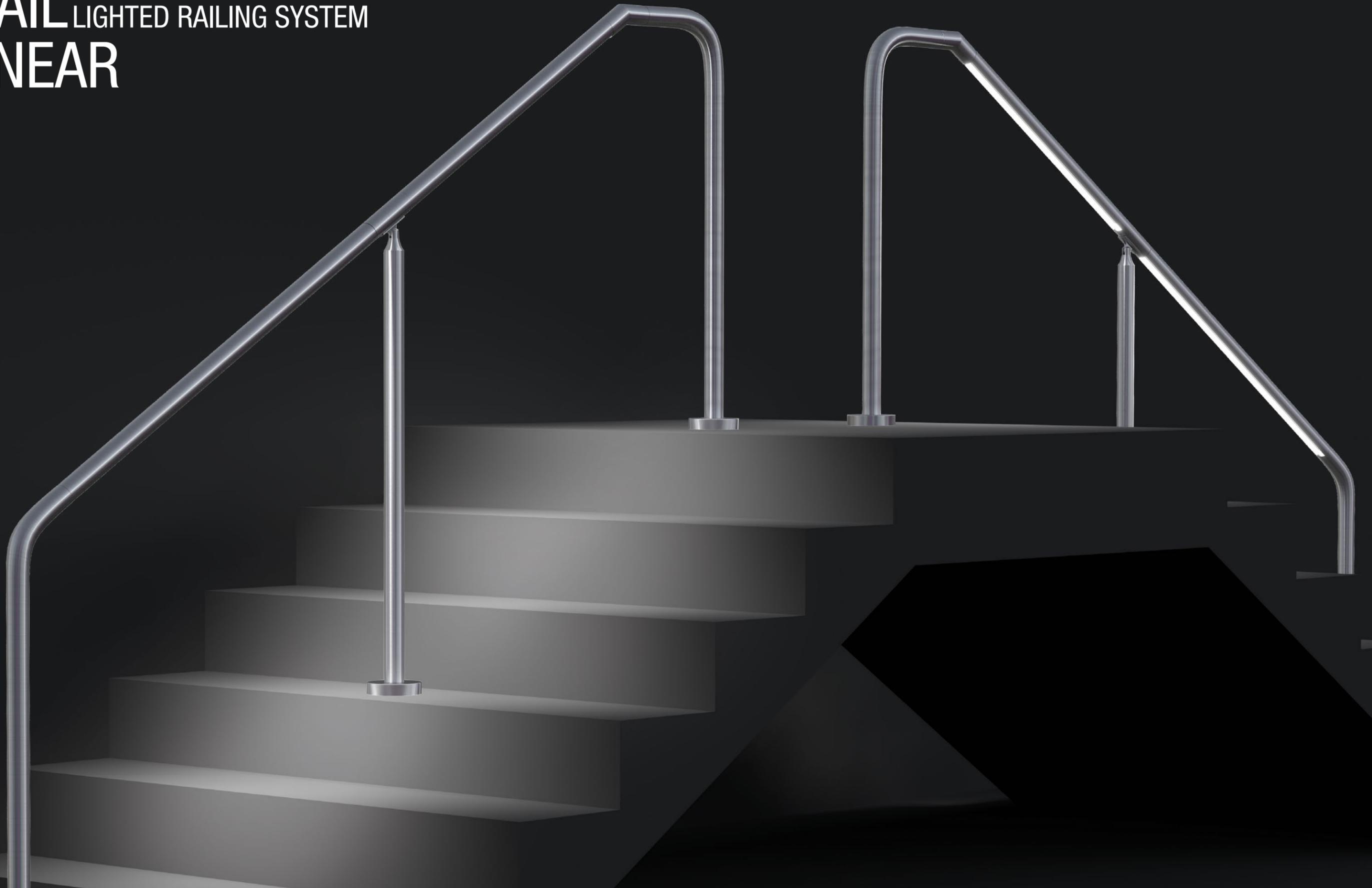


iRAIL LIGHTED RAILING SYSTEM SMU MOODY HALL

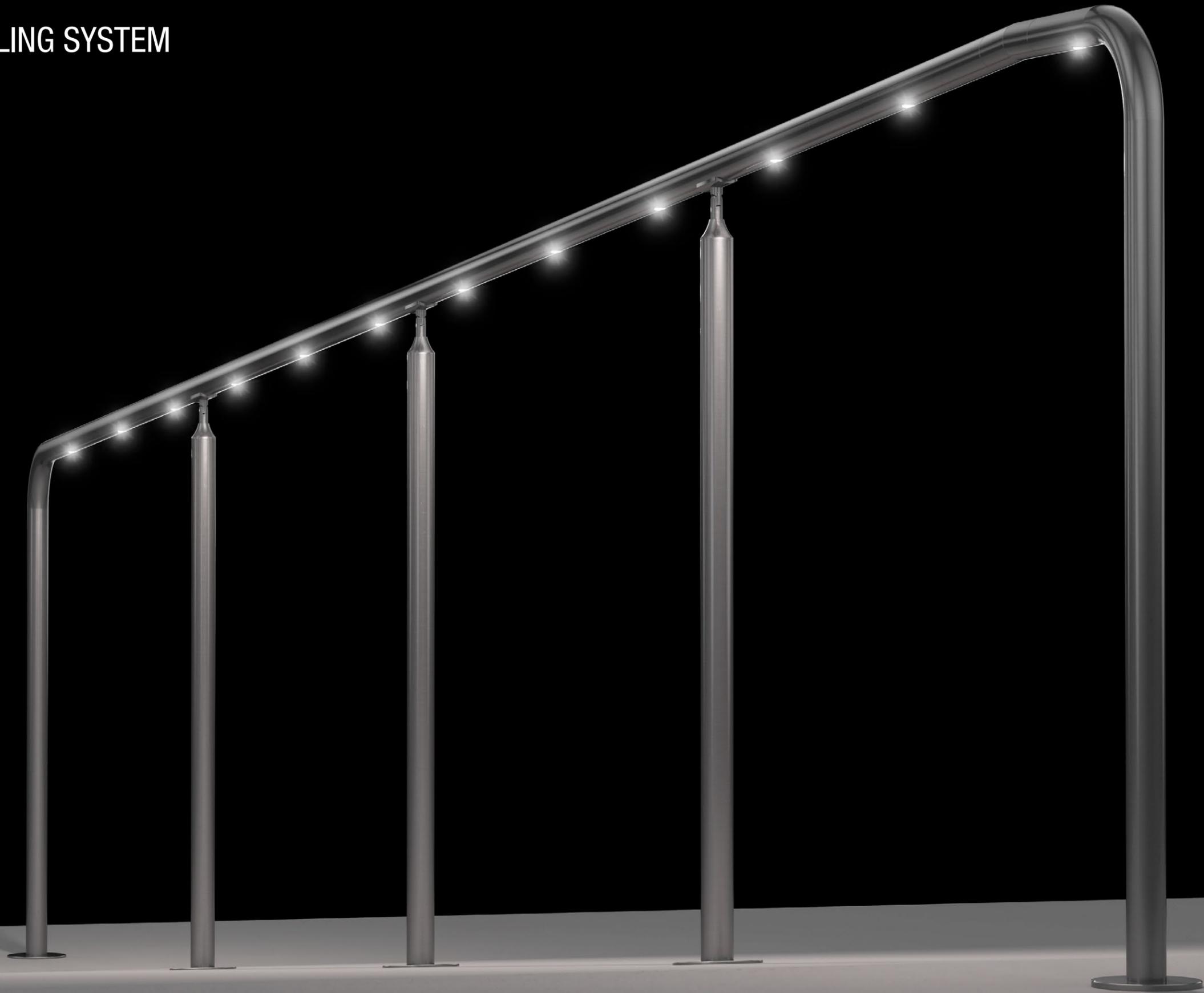
SMU MOODY HALL - DALLAS, TX
General Contractor: The Beck Group
Architect: Smithgroup Inc



iRAIL LIGHTED RAILING SYSTEM LINEAR



iRAIL LIGHTED RAILING SYSTEM PODS



iRAIL LIGHTED RAILING SYSTEM CHOCTAW CASINO & RESORT

CHOCTAW CASINO & RESORT - DURANT, OK
General Contractor: TEPCO Glass
Architect: JCJ Architecture



iRAIL LIGHTED RAILING SYSTEM ANDRETTI / GRANDSCAPE

ANDRETTI / GRANDSCAPE - THE COLONY, TX
General Contractor: VCC Construction Corp.
Architect: Merriman - MAA Architects



NORTH AMERICA OPERATIONS



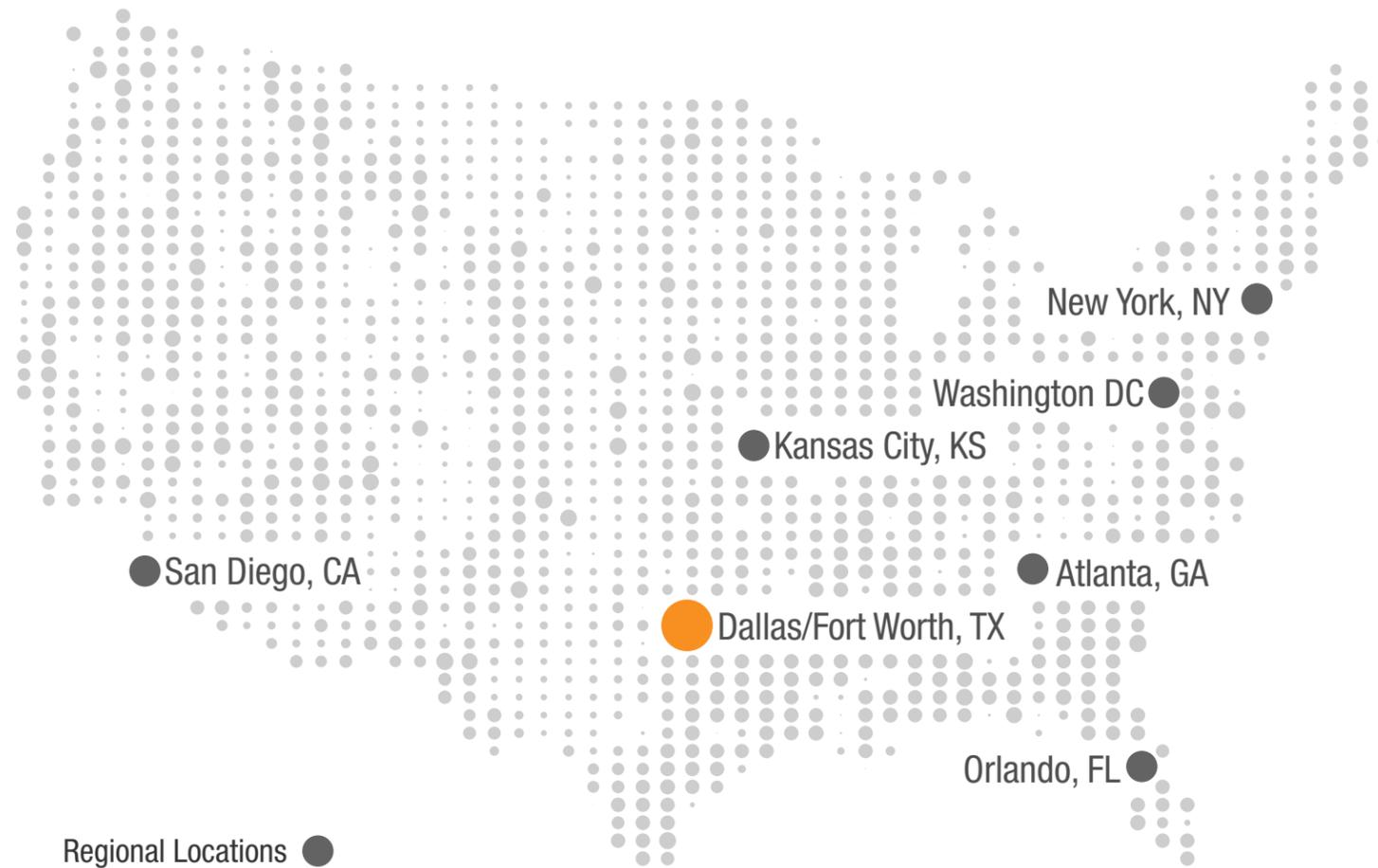
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Material & Resources Credits 4.1 and 4.2



The American Institute of Architects



The California Contractors State License
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WST LED

Architectural Wall Sconce



Catalog
Number

Notes

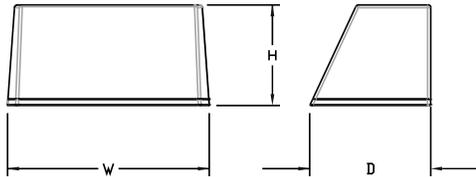
Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Luminaire

- Height:** 8-1/2"
(21.59 cm)
- Width:** 17"
(43.18 cm)
- Depth:** 10-3/16"
(25.9 cm)
- Weight:** 20 lbs
(9.1 kg)



Introduction

The WST LED is designed with the specifier in mind. The traditional, trapezoidal shape offers a soft, non-pixelated light source for end-user visual comfort. For emergency egress lighting, the WST LED offers six battery options, including remote. For additional code compliance and energy savings, there is also a Bi-level motion sensor option. With so many standard and optional features, three lumen packages, and high LPW, the WST LED is your "go to" luminaire for most any application.

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD

WST LED						
Series	Performance Package	Color temperature	Distribution	Voltage	Mounting	
WST LED	P1 1,500 Lumen package	27K 2700 K	VF Visual comfort forward throw	MVOLT ¹	Shipped included (blank) Surface mounting bracket PBBW Premium surface-mounted back box ^{3,4} Shipped separately BBW Surface-mounted back box ³	
	P2 3,000 Lumen package	30K 3000 K	VW Visual comfort wide	277 ²		
	P3 6,000 Lumen package	40K 4000 K		120 ²		347 ²
		50K 5000 K		208 ²		480 ²
				240 ²		

Options		Finish (required)
NLTAIR2 PIR	nLIGHT AIR Wireless enabled motion/ambient sensor for 8'-15' mounting heights ^{5,6,7}	DDBXD Dark bronze
NLTAIR2 PIRH	nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights ^{5,6,7}	DBLXD Black
PE	Photoelectric cell, button type ⁸	DNAXD Natural aluminum
PER	NEMA twist-lock receptacle only (controls ordered separate) ⁹	DWHXD White
PER5	Five-wire receptacle only (controls ordered separate) ⁹	DSSXD Sandstone
PER7	Seven-wire receptacle only (controls ordered separate) ⁹	DDBTXD Textured dark bronze
PIR	Motion/Ambient Light Sensor, 8-15' mounting height ^{5,6}	DBLBXD Textured black
PIR1FC3V	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{5,6}	DNATXD Textured natural aluminum
PIRH	180° motion/ambient light sensor, 15-30' mounting height ^{5,6}	DWHGXD Textured white
PIRH1FC3V	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{5,6}	DSSTXD Textured sandstone
SF	Single fuse (120, 277, 347V) ²	
DF	Double fuse (208, 240, 480V) ²	
DS	Dual switching ¹⁰	
DMG	0-10V dimming extend out back of housing for external control (control ordered separate) ¹¹	
E7WH	Emergency battery backup, Non CEC compliant (7W) ⁷	
E7WC	Emergency battery backup, CA Title 20 Noncompliant (cold, 7W) ^{7,12}	
E7WHR	Remote emergency battery backup, CA Title 20 Noncompliant (remote 7W) ^{7,13}	
E20WH	Emergency battery pack 18W constant power, Certified in CA Title 20 MAEDBS ⁷	
E20WC	Emergency battery pack -20°C 18W constant power, Certified in CA Title 20 MAEDBS ^{7,12}	
E23WHR	Remote emergency battery backup, CA Title 20 Noncompliant (remote 20W) ^{7,12,14}	
LCE	Left side conduit entry ¹⁵	
RCE	Right side conduit entry ¹⁵	
BAA	Buy America(n) Act Compliant	
	Shipped separately	
RBPW	Retrofit back plate ³	
VG	Vandal guard ¹⁵	
WG	Wire guard ¹⁵	

See Accessories and Notes on next page.



COMMERCIAL OUTDOOR

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WST-LED
Rev. 03/27/24

Accessories

Ordered and shipped separately.

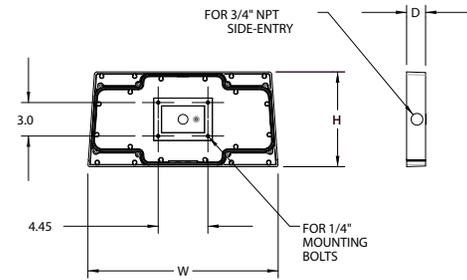
WSTVCPBBW DDBXD U	Premium Surface - mounted back box
WS8BW DDBXD U	Surface - mounted back box
RBPW DDBXD U	Retrofit back plate
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ¹⁷
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ¹⁷
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ¹⁷

NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Also available as a separate accessory; see accessories information.
- Top conduit entry standard.
- Not available with VG or WG. See PER Table.
- Reference Motion Sensor table.
- Not available 347/480. E7WC or E23WHR, only available 120 or 277.
- Need to specify 120, 208, 240 or 277 voltage.
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- Not available with Emergency options, PE or PER options.
- DMG option not available with standalone or networked sensors/controls.
- Battery pack rated for -20° to 40°C.
- Comes with PBBW.
- Warranty period is 3-years.
- Not available with BBW.
- Must order with fixture; not an accessory.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table.

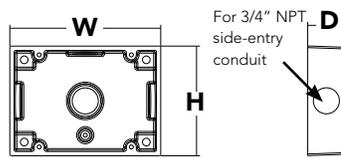
Optional Back Box (PBBW)

Height:	8.49" (21.56 cm)
Width:	17.01" (43.21 cm)
Depth:	1.70" (4.32 cm)



Optional Back Box (BBW)

Height:	4" (10.2 cm)
Width:	5-1/2" (14.0 cm)
Depth:	1-1/2" (3.8 cm)



Emergency Battery Operation

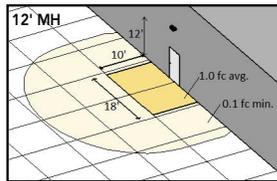
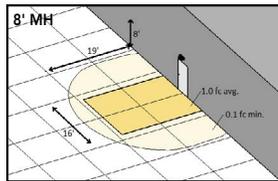
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

All emergency backup configurations include an independent secondary driver with an integral relay to immediately detect AC power loss, meeting interpretations of [NFPA 70/NEC 2008 - 700.16](#)

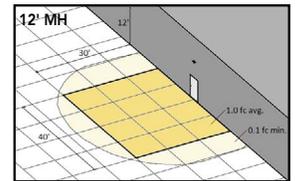
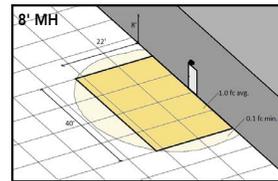
The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per [International Building Code Section 1006](#) and [NFPA 101 Life Safety Code Section 7.9](#), provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package and VF distribution product in emergency mode.

10' x 10' Gridlines
8' and 12' Mounting Height



WST LED P1 27K VF MVOLT E7WH



WST LED P2 40K VF MVOLT E20WH

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Electrical Load

Performance package	System Watts	Current (A)					
		120	208	240	277	347	480
P1	11	0.1	0.06	0.05	0.04	---	---
	14	---	---	---	---	0.04	0.03
P1 DS	14	0.12	0.07	0.06	0.06	---	---
	P2	25	0.21	0.13	0.11	0.1	---
30		---	---	---	---	0.09	0.06
P2 DS	25	0.21	0.13	0.11	0.1	---	---
	P3	50	0.42	0.24	0.21	0.19	---
56		---	---	---	---	0.16	0.12
P3 DS	52	0.43	0.26	0.23	0.21	---	---

Projected LED Lumen Maintenance

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.95	>0.92	>0.87

Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Ramp-up Time	Dwell Time	Ramp-down Time
*PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	3 sec	5 min	5 min
PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	3 sec	5 min	5 min

*for use with site wide Dusk to Dawn control

PER Table

Control	PER (3 wire)	PER5 (5 wire)			PER7 (7 wire)		
			Wire 4/Wire5		Wire 4/Wire5	Wire 6/Wire7	
Photocontrol Only (On/Off)	✓	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture	
ROAM	⊘	✓	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture	
ROAM with Motion	⊘	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture	
Futureproof*	⊘	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture	
Futureproof* with Motion	⊘	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture	

✓ Recommended

⊘ Will not work

⚠ Alternate

*Futureproof means: Ability to change controls in the future.

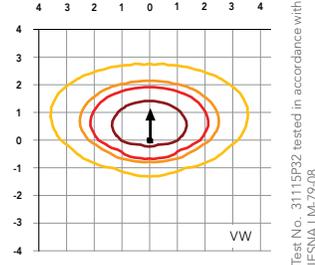
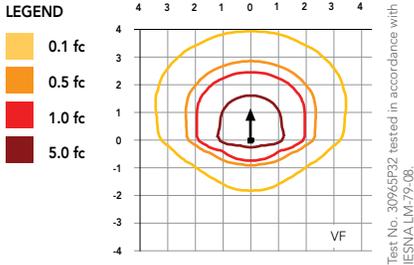
Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

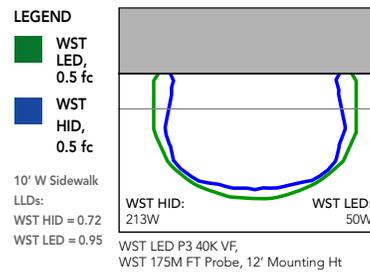
Performance Package	System Watts (MVOLT*)	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	12W	VF	1,494	0	0	0	125	1,529	0	0	0	127	1,639	0	0	0	137	1,639	0	0	0	137
		VW	1,513	0	0	0	126	1,548	0	0	0	129	1,659	0	0	0	138	1,660	0	0	0	138
P2	25W	VF	3,163	1	0	1	127	3,237	1	0	1	129	3,469	1	0	1	139	3,468	1	0	1	139
		VW	3,201	1	0	0	128	3,276	1	0	0	131	3,512	1	0	0	140	3,512	1	0	0	140
P3	50W	VF	6,025	1	0	1	121	6,165	1	0	1	123	6,609	1	0	1	132	6,607	1	0	1	132
		VW	6,098	1	0	1	122	6,240	1	0	1	125	6,689	1	0	1	134	6,691	1	0	1	134



Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10').



Distribution overlay comparison to 175W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WST LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) consist of 98 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. PIR and back box options are rated for wet location. Rated for -30°C to 40°C ambient.

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.