



# 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:
HCA PROJECT NO.	0972400009	08/28/2024

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

DEVENNEY GROUP, LTD.  
ARCHITECTS  
ARCHITECTS  
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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  
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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



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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 PROJECT SHALL BE SUBJECT TO ANY PREVAL.
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 PENINGS 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 PARTITIONS TERMINATES @ (MINIMUM) ABOVE THE HIGHEST ADJACENT CEILING UNLESS NOTED OTHERWISE.
12. GYPSUM BOARDING TO BE MATCHED 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. PARTITIONS TO BE DESIGN WITH MATCH EXISTING EXCEPT WHERE OTHERWISE DIMENSIONED OR NOTED.
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 NOTED OR DAMAGED AND FILL ALL NAIL HOLES, ETC. TO PREPARE FOR FINISH AS PER NEW FINISH REQUIREMENTS.
17. PATCH AND REPAIR PARTITIONS, WALLS AND FLOORS CUT 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.

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

<b>PROJECT NAME</b>	HCA - LEE'S SUMMIT MEDICAL CENTER - INPATIENT BED EXPANSION
<b>ADDRESS</b>	2100 SE BLUE PKWAY LEE'S SUMMIT, MO 64063
<b>BRIEF PROJECT DESCRIPTION</b>	<p>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:</p> <ul style="list-style-type: none"> <li>- REMOTE PARKING LOT</li> <li>- PEDESTRIAN WALKWAY BRIDGE FROM REMOTE PARKING LOT TO HOSPITAL PARKING LOT</li> <li>- EXTERIOR ELEVATIONS FOR DIETARY EXPANSION AT LEVEL 1 AND INPATIENT BED TOWER EXPANSION ON LEVEL 3</li> </ul>

		X = ISSUED SHEET	FINAL DEVELOPMENT PACKAGE - FIRST REVIEW - 07/28/2024 FINAL DEVELOPMENT PACKAGE - 2ND REVIEW - 08/28/2024
		R = REVISED SHEET	
		F = FOR REFERENCE ONLY	
		D = DELETED SHEET	
SHEET NUMBER	SHEET NAME		

DP-GI000	COVER SHEET	X	R
DP-GI001	SHEET INDEX	X	R

DP-S001	PEDESTRIAN BRIDGE STRUCTURAL NOTES	X
		X
DP-S201	PEDESTRIAN BRIDGE STRUCTURAL SECTIONS AND DETAILS	X

DP-AS002	ARCHITECTURAL SITE PLAN	X	
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C0.0	COVER SHEET	X	
C1.0	EXISTING CONDITIONS	X	
C2.0	GENERAL NOTES	X	
C3.0	INITIAL EROSION CONTROL PLAN	X	
C3.1	FINAL EROSION CONTROL PLAN	X	
C3.2	SEDIMENT AND EROSION CONTROL DETAILS	X	
C3.3	SEDIMENT AND EROSION CONTROL DETAILS	X	
C4.0	OVERALL DEMOLITION PLAN	X	
C4.1	DETAILED DEMOLITION PLAN	X	
C4.2	DETAILED DEMOLITION PLAN	X	
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	
C8.1	SITE DETAILS	X	R
L1.0	OVERALL LANDSCAPE PLAN	X	
L1.1	DETAILED LANDSCAPE PLAN	X	
L1.2	DETAILED LANDSCAPE PLAN	X	
L2.0	LANDSCAPE DETAILS	X	

AE201	EXTERIOR BUILDING ELEVATIONS	X	R
AE202	EXTERIOR BUILDING ELEVATIONS	X	
AE203	EXTERIOR BUILDING ELEVATIONS	X	

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:

PRELIMINARY  
NOT FOR  
CONSTRUCTION

IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTRANT, 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 SEC. 102 OF THE COPYRIGHT ACT, 17 U.S.C. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION 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  
0972400009

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

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

## SHEET INDEX

DP-GI001





## MED/SURG VERTICAL EXPANSION



IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTRANT, 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 SEC. 102 OF THE COPYRIGHT ACT, 17 U.S.C. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL DESIGN AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

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

AGENCY APPROVALS:  
AGENCY

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

DP-AS002



# STRUCTURAL NOTES

## A. GENERAL

- NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, ENGINEER, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OR ANY OF THE STRUCTURAL ENGINEERS CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
- CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.
- REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
- CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS, WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
- MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
- CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DOCUMENTS. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL OBTAIN AND COORDINATE EDGE OF SLAB DIMENSIONS, OPENING LOCATIONS AND DIMENSIONS, DEPRESSED SLAB LOCATIONS AND EXTENTS, AND SLAB SLOPES. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION.
- CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS. CONTRACTOR SHALL VERIFY EQUIPMENT REQUIREMENTS AND LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS ARE IN AGREEMENT WITH FINAL ARCHITECTURAL AND MECHANICAL SHOP DRAWINGS AND SUBMITTALS.
- CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
- THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTIONABILITY ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSEWORK, TEMPORARY BRACING, ETC.
- REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
- SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE ARCHITECT / STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE ARCHITECT / STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
- WHERE A SECTION OR DETAIL IS SHOWN OR DETAILED FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR AND LIKE CONDITIONS. DETAILS LABELED "TYPICAL" OR "TYP." ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR. THE CONTRACTOR SHALL CONSIDER ALL OF THE CONTRACT DOCUMENTS IN DETERMINING SIMILAR AND LIKE CONDITIONS.
- USE ONLY DIMENSIONS INDICATED ON THE CONTRACT DOCUMENTS. DO NOT SCALE DRAWINGS OR MEASURE OBJECTS IN ELECTRONIC FILES. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES.
- THE OWNER SHALL ESTABLISH A PERIODIC MAINTENANCE PROGRAM TO PROTECT THE STRUCTURE FROM DETEIORATION. THE MAINTENANCE PROGRAM IS THE RESPONSIBILITY OF THE OWNER AND SHOULD INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:  
PAINTING OF EXPOSED STEEL THAT IS NOT GALVANIZED.  
INSPECTION AND MAINTENANCE OF PROTECTIVE COATINGS, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, AND CONTROL JOINTS.  
REPAIR OF SPALLS AND CRACKS IN CONCRETE ELEMENTS.  
REPAIR AND RESTORATION OF CORRODED ELEMENTS.  
CLEANOUT OF DRAINS INCLUDING ALL ROOF AND TRENCH DRAINS AND SCUPPERS.  
CLEANING OF STRUCTURAL ELEMENTS EXPOSED TO HARSH CHEMICALS INCLUDING DE-ICING CHEMICALS.  
REPLACEMENT OF WORN BEARING PADS
- THE USE OF STRUCTURAL BIM OR CAD FILES IS PROHIBITED WITHOUT WRITTEN CONSENT FROM THE STRUCTURAL ENGINEER.

## B. CODE/DESIGN CRITERIA

- STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2018 EDITION.
- GRAVITY LOADS
  - UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

PEDESTRIAN BRIDGE	90 PSF	(NON-REDUCIBLE)
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  - UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

GROUND SNOW LOAD, $p_g$	10 PSF
SNOW	
GROUND SNOW LOAD, $p_g$	20 PSF
SNOW EXPOSURE FACTOR, $C_e$	1.0
SNOW THERMAL FACTOR, $C_t$	1.2
SNOW IMPORTANCE FACTOR, $I_s$	1.0
FLAT ROOF SNOW LOAD, $p_f$	16.8 PSF
RAIN INTENSITY (15-MIN. STORM DURATION), $i$	7.48 IN/HR
  - PONDING AND DRIFT EFFECTS HAVE BEEN INCLUDED IN THE DESIGN.
  - CONCENTRATED FLOOR LOADS - DISTRIBUTED OVER AN AREA OF 2.5 FT<sup>2</sup>, UNLESS NOTED OTHERWISE:

PEDESTRIAN BRIDGE	2,000 LB
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  - WIND LOADS:

BASIC DESIGN WIND SPEED, $V$	109 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, $V_{ASD}$	85 MPH
EXPOSURE	B
RISK CATEGORY	II
INTERNAL PRESSURE COEFFICIENT, $C_{pi}$	$\pm 0.0$
  - EARTHQUAKE LOADS:

RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR, $I_e$	1.0
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:	
$S_s$	0.101 g
$S_1$	0.069 g
SITE CLASS	C
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:	
$S_{DS}$	0.087 g
$S_{D1}$	0.069 g
SEISMIC DESIGN CATEGORY	B
  - MAXIMUM ESTIMATED DEFLECTIONS LISTED BELOW ARE EXPECTED TO OCCUR AND SHALL BE CONSIDERED BY THE CONTRACTOR AND CLADDING DESIGNERS IN THE PERFORMANCE OF THE WORK:
    - MAXIMUM ESTIMATED DEFLECTIONS (IN INCHES) ARE AS FOLLOWS:

LIVE LOAD	DEAD + LIVE LOAD
L780	L240
L880	
- WHERE,  $L$  = SPAN LENGTH (IN INCHES) BETWEEN CENTERLINES OF SUPPORTS (FOR CANTILEVERS,  $L$  IS TWICE THE LENGTH OF THE CANTILEVER).
- SPECIAL INSPECTIONS ARE REQUIRED PER IBC CHAPTER 17 AND AS SPECIFIED IN THE STRUCTURAL SPECIAL INSPECTION STATEMENT PROVIDED BY THE STRUCTURAL ENGINEER.
- NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

## C. DEFERRED STRUCTURAL SUBMITTALS

- DEFERRED SUBMITTALS, AS DEFINED BY THE BUILDING CODE, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BY THE CONTRACTOR. THE DEFERRED SUBMITTALS SHALL BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE PROJECT STATE.
- THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF THE DEFERRED SUBMITTAL COMPONENTS OR THE CONNECTION TO THE STRUCTURE. THE STRUCTURAL DESIGN OF THE COMPONENTS AND THE CONNECTION TO THE STRUCTURE IS DELEGATED TO A SPECIALTY ENGINEER WHO SHALL BE ENGAGED BY THE CONTRACTOR, VENDOR, AND / OR SUPPLIER OF THE COMPONENTS AS PART OF THE DEFERRED SUBMITTAL PROCESS.
- THE CONTRACTOR SHALL SUBMIT THE DEFERRED SUBMITTAL TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW. AFTER REVIEW BY THE ARCHITECT / STRUCTURAL ENGINEER THE CONTRACTOR SHALL SUBMIT THE REVIEWED SUBMITTAL TO THE BUILDING OFFICIAL PER SECTION 107.3 OF THE BUILDING CODE.
- THE ITEMS LISTED BELOW ARE IDENTIFIED AS DEFERRED SUBMITTALS. REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEFERRED SUBMITTAL COMPONENTS. ALL COSTS ASSOCIATED WITH THE PREPARATION OF THE DEFERRED SUBMITTAL, INCLUDING THE SPECIALTY ENGINEER'S DESIGN FEES, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- STRUCTURAL STEEL CONNECTIONS  
HANDRAILS, AND GUARDRAILS  
ELASTOMERIC BEARING PADS  
EXTERIOR BUILDING SIGNAGE  
SEISMIC ANCHORAGE OF MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS  
ANCHORAGE OF EXTERIOR ARCHITECTURAL, MECH., ELEC., AND PLUMBING EQUIPMENT  
ATTACHMENT OF EQUIPMENT, PIPING, & DUCTWORK TO THE UNDERLYING STRUCTURE  
OTHER ELEMENTS SPECIFICALLY IDENTIFIED IN THE CONTRACT DOCUMENTS
- DEFERRED SUBMITTAL COMPONENTS SHALL BE DESIGNED FOR THE LOADS AS DEFINED BY THE APPLICABLE BUILDING CODE WITH DESIGN DATA DEFINED IN THE SECTION B OF THE STRUCTURAL NOTES.
- THE DESIGN OF ITEMS LISTED BELOW ARE THE RESPONSIBILITY OF THE CONTRACTOR BUT ARE NOT CONSIDERED A DEFERRED SUBMITTAL AND ARE NOT TO BE SUBMITTED TO THE DESIGN TEAM. ALL COSTS ASSOCIATED WITH THE DESIGN OF THESE ELEMENTS, INCLUDING THE SPECIALTY ENGINEER'S DESIGN FEES, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- TEMPORARY SUPPORT OF EXCAVATION SYSTEMS  
TEMPORARY BRACING / SHORING FOR STABILITY OF STRUCTURE DURING CONSTRUCTION  
ALL OTHER ELEMENTS IDENTIFIED IN THE CONTRACT DOCUMENTS

## D. FOUNDATION

- FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY ALPHA-OMEGA GEOTECH REPORT NUMBER AOG 240229 DATED APRIL 30, 2024 AND THE BRIDGE SHALLOW FOUNDATIONS MEMORANDUM DATED MAY 14, 2024. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED FOR DESIGN.
- STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIUM.
- SPREAD FOOTINGS SHALL BEAR ON SOIL, CAPABLE OF SUPPORTING 2,000 PSF.
- FOUNDATION WALLS ARE DESIGNED FOR LATERAL PRESSURES DUE TO THE FOLLOWING EQUIVALENT FLUID DENSITIES:

WALLS SUPPORTED AT TOP	(AT-REST CONDITION):	50 PCF
WALLS FREE TO DISPLACE AT TOP	(ACTIVE CONDITION):	32 PCF
- PROOF ROLL FOUNDATION AREAS WITH TWO COMPLETE COVERAGES OF A LOADED DUMP-TRUCK OR SCRAPER, REPLACE SOFT AREAS WITH COMPACTED STRUCTURAL FILL AS REQUIRED BY THE SPECIFICATIONS.

## E. REINFORCEMENT

- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
- WELDED WIRE REINFORCING SHALL CONFORM TO ASTM A1064 AND HAVE MINIMUM SIDE AND END LAPS OF ONE CROSS WIRE SPACING PLUS 2", BUT NOT LESS THAN 6".
- SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.
- PROVIDE DOWELS FROM FOUNDATIONS THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
- PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:
  - CAST-IN-PLACE CONCRETE REINFORCEMENT COVER

PERMANENTLY EXPOSED TO EARTH: CAST AGAINST THE EARTH	3" CLEAR
EXPOSED TO EARTH OR WEATHER: FOR BARS LARGER THAN A NO. 5 BAR NO. 5 BARS OR SMALLER	2" CLEAR 1-1/2" CLEAR
  - COLUMNS  
#3 COLUMN TIES  
#4 AND LARGER COLUMN TIES 1-5/8" CLEAR 1-1/2" CLEAR |
- REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS. EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. REINFORCING STEEL SPLICES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

CONCRETE:	CLASS B TENSION LAP - SEE REINFORCING LAP LENGTH SCHEDULE
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## F. CAST-IN-PLACE CONCRETE

- CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.
- CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:
  - NORMAL WEIGHT STRUCTURAL CONCRETE:

EXPOSURE	28-DAY MIN. COMPRESSIVE STRENGTH, $f'_c$	MAX. W/Cm RATIO	MAX. NOM. AGGREGATE SIZE
C1, W1	4,000 PSI	0.50	1-1/2"
F2, C1	4,500 PSI	0.45	1"
  - ALL NORMAL WEIGHT CONCRETE SHALL BE CONSIDERED TO BE IN EXPOSURE CLASS F0, S0, W0, AND C0 ACCORDING TO ACI 318 UNLESS NOTED OTHERWISE ABOVE OR ELSEWHERE ON THE STRUCTURAL DRAWINGS
  - FOOTINGS  
EXTERIOR SLABS-ON-GROUND F2, C1 | 4,500 PSI | 0.45 | 1" |
- LIGHTWEIGHT STRUCTURAL CONCRETE: (110-120 PCF FRESH UNIT WEIGHT/107-116 PCF AIR-DRYED UNIT WEIGHT)
  - ALL CONCRETE SHALL BE PROPORTIONED TO COMPLY WITH ACI 318 CHAPTER 19 IN ACCORDANCE WITH THE EXPOSURE CLASS INDICATED. WHERE REQUIREMENTS INDICATED DIFFER FROM REQUIREMENTS OF CHAPTER 19, THE STRICTER REQUIREMENT SHALL APPLY. REFER TO THE SPECIFICATIONS FOR OTHER REQUIREMENTS FOR VARIOUS EXPOSURE CLASSES RELATIVE TO THE CEMENT TYPE, AIR ENTRAINMENT REQUIREMENTS, CHLORIDE ION LIMITS, POZZOLAN LIMITS, AND SHRINKAGE LIMITS.
  - CONCRETE SHALL BE CONSIDERED EXTERIOR CONCRETE IF THE CONCRETE IS PERMANENTLY EXPOSED TO THE WEATHER OR MOISTURE OR IF IT IS IN AN UNCONDITIONED SPACE IN ITS COMPLETED CONFIGURATION.
  - ALL CONCRETE SHALL SATISFY BOTH THE SPECIFIED MAXIMUM WATER TO CEMENT RATIO AND THE MINIMUM COMPRESSIVE STRENGTH,  $f'_c$ , REQUIREMENTS.
  - PIPES OR DUCTS SHALL NOT EXCEED ONE-THIRD THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
  - CONSTRUCTION JOINTS
    - LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
    - NO HORIZONTAL JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
    - JOINTS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SPANS OF SLABS, BEAMS, AND GIRDER.
    - JOINTS IN GIRDERS SHALL BE OFFSET A MINIMUM DISTANCE OF TWO TIMES THE WIDTH OF INTERSECTING BEAMS.
  - DEFECTIVE AREAS IN CONCRETE INCLUDING BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.012" SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / STRUCTURAL ENGINEER. REPAIR DEFECTIVE AREAS AS DIRECTED BY THE STRUCTURAL ENGINEER.

## G. STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO THE ANSI/AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
- STRUCTURAL STEEL SHALL BE OF THE FOLLOWING GRADE UNLESS NOTED OTHERWISE ON DRAWINGS:

W, WT, C, AND MC SHAPES	ASTM A992
L, M, S, MT, AND ST SHAPES	ASTM A572, GRADE 50
HSS SHAPES	ASTM A500, GRADE C
STEEL PIPE SHAPES	ASTM A53, GRADE B
PLATES AND BARS	
OUTRIGGERS, BRANT PLATES, AND ELEMENTS LESS THAN 1/2" THICK	ASTM A36
BASE PLATES AND ALL OTHER ELEMENTS	ASTM A572, GRADE 50
ROUND ROD	ASTM A36
- BOLTS:
  - ALL BOLTS SHALL BE GROUP 120 OR GROUP 150 HIGH STRENGTH BOLTS WITH A 3/4" MINIMUM DIAMETER, UNLESS NOTED OTHERWISE. BOLT SHEAR STRENGTH SHALL BE DETERMINED IN ACCORDANCE WITH TABLE 7-1 IN THE AISC "STEEL CONSTRUCTION MANUAL".
- CONNECTIONS:
  - STEEL CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT ADVANCE WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.
  - THE SERVICES OF A CONNECTION DESIGN SPECIALTY ENGINEER (CDSE) SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF SERVICES. THE CDSE SHALL BE LICENSED IN THE PROJECT STATE. THE CDSE IS RESPONSIBLE FOR REVIEWING THE STEEL SHOP DRAWINGS TO ENSURE THAT ALL CONNECTION DESIGN DETAILS HAVE BEEN CORRECTLY NOTED ON THE SHOP DRAWINGS, AND THE CDSE SHALL SUBMIT A SIGNED AND SEALED LETTER, WITH EACH SHOP DRAWING SUBMITTAL, CONFIRMING THE ABOVE REVIEW.
  - FOR WELDED CONNECTIONS, USE PREQUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY. "NON-PREQUALIFIED JOINTS" SHALL BE QUALIFIED PRIOR TO FABRICATION.
  - STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE CDSE WITH THE EXCEPTION OF SIMPLE SHEAR CONNECTIONS AS DESCRIBED IN SECTION 4.3. THE CDSE SHALL SUBMIT SIGNED AND SEALED CALCULATIONS FOR ALL SUCH CONNECTIONS.
  - REVIEW OF THE SHOP DRAWINGS AND/OR CONNECTION CALCULATIONS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR AND CDSE OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS.
  - COMPOSITE FLOOR MEMBERS ARE DESIGNED TO BE UNSHORED UNLESS OTHERWISE NOTED. THE WEIGHT OF THE WET CONCRETE WILL RESULT IN DEFLECTIONS OF THE SUPPORTING STEEL BEAMS, BEAMS, AND GIRDERS. ALL OVERRUNS OF CONCRETE QUANTITIES ARE TO BE ANTICIPATED AND INCLUDED IN THE CONTRACTORS BID. THE CONTRACTOR SHALL COORDINATE EMBEDDED ITEMS REQUIRED FOR THE HORIZONTAL, STRUCTURAL, AND MECHANICAL ELEMENTS. CONCRETE FLOORS UTILIZING UNSHORED CONSTRUCTION SHALL BE SCAFFOLD LEVEL.
  - SIZES AND SPACING OF CONDUITS IN COMPOSITE SLABS SHALL COMPLY WITH THE REQUIREMENTS OF ASCE 3-91, UNLESS NOTED OTHERWISE ON DRAWINGS.
  - ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) AND ITS REQUIRED CATEGORIES ARE INDICATED IN EITHER THE ARCHITECTURAL OR STRUCTURAL DRAWINGS. AESS SHALL CONFORM TO THE REQUIREMENTS IN SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR THE SPECIFIED CATEGORY, WHERE THE CATEGORY IS NOT SPECIFIED, OR THERE IS A CONFLICT, CONSULT THE ARCHITECT.
  - ALL STEEL EXPOSED TO WEATHER OR MOISTURE SHALL BE GALVANIZED, UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.
  - THE LATERAL LOAD RESISTING SYSTEM INCLUDES STRUCTURAL STEEL, NON-STRUCTURAL STEEL ELEMENTS, AND THE DIAPHRAGM AS INDICATED BELOW. ALL ELEMENTS OF THE LATERAL LOAD RESISTING SYSTEM AND DIAPHRAGM ARE REQUIRED TO BE COMPLETE AS INDICATED AND DETAILED IN THE STRUCTURAL CONTRACT DOCUMENTS TO PROVIDE THE LATERAL STRENGTH AND STABILITY OF THE STEEL STRUCTURE. THE STRUCTURE SHALL BE CONSIDERED UNSTABLE UNTIL THESE SYSTEMS AND ELEMENTS ARE COMPLETE.
  - THE LATERAL LOAD RESISTING SYSTEM FOR THE STEEL STRUCTURE INCLUDES THE FOLLOWING ELEMENTS AS INDICATED AND DETAILED IN THE STRUCTURAL CONTRACT DOCUMENTS:

CAST-IN-PLACE CONCRETE BEAMS AND COLUMNS	
------------------------------------------	--
    - THE LATERAL LOAD RESISTING DIAPHRAGM FOR THE STEEL STRUCTURE INCLUDES THE FOLLOWING ELEMENTS AS INDICATED AND DETAILED IN THE STRUCTURAL CONTRACT DOCUMENTS:

STEEL FLOOR DECK WITH CONCRETE AT 28 DAY STRENGTH	
---------------------------------------------------	--
    - SPECIAL ELEMENTS AS IDENTIFIED WITHIN THE PLANS AND DETAILS OF THE STRUCTURAL CONTRACT DRAWINGS SHALL ALSO BE CONSIDERED PART OF THE LATERAL LOAD RESISTING SYSTEM.
  - STABILITY BRACING: THE STABILITY OF STRUCTURAL STEEL ELEMENTS INCLUDING INDIVIDUAL HOT-ROLLED STEEL SHAPES AND FABRICATED TRUSSES IS PROVIDED BY THE FOLLOWING ELEMENTS AS INDICATED AND DETAILED IN THE STRUCTURAL CONTRACT DOCUMENTS. THESE ELEMENTS SHALL BE COMPLETE AS SHOWN IN THE STRUCTURAL CONTRACT DOCUMENTS. BEFORE ANY TEMPORARY MEANS AND METHODS REQUIRED FOR ERECTION ARE REMOVED.
  - THE WALL THICKNESS OF ROLLED HSS MEMBERS SHOWN ON THE PLANS IS THE MINIMUM THICKNESS REQUIRED FOR STRUCTURAL PURPOSES. THE CONTRACTOR SHALL INCREASE THE WALL THICKNESS OR EMPLOY OTHER CONSTRUCTION MEANS AS REQUIRED TO PREVENT DISTORTION, WARPING, OR OIL-CANNING OF THE HSS CROSS SECTION.

## H. STEEL DECK

- STEEL DECK SHALL BE PLACED OVER MULTIPLE SPANS WHEREVER POSSIBLE. WHERE SINGLE SPAN DECK IS REQUIRED, THE CONTRACTOR SHALL DRAW SPECIFIC ATTENTION TO THOSE LOCATIONS ON THE SHOP DRAWINGS.
- SUBMIT SHOP DRAWINGS SHOWING THE STEEL DECK PROFILE, GAGE, PHYSICAL PROPERTIES, AND LAYOUT. THE SUBMITTAL SHALL INCLUDE ALL ACCESSORIES AND INSTALLATION DETAILS. IF DECK OTHER THAN THE BASIS OF DESIGN IS PROVIDED, THE SUBMITTAL SHALL INCLUDE LOAD TABLES DEMONSTRATING THE DECK MEETS OR EXCEEDS THE BASIS OF DESIGN. THE LOAD TABLES SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI) REQUIREMENTS
- COMPOSITE FLOOR DECK:
  - THE 3" COMPOSITE FLOOR DECK BASIS OF DESIGN IS 3VL DECK PRODUCED BY VULCRAFT (AMPO USE ER-0652). OTHER DECK MANUFACTURERS ARE PERMITTED PROVIDED THE FOLLOWING MINIMUM DECK PROPERTIES ARE MET OR EXCEEDED:

GAGE	20
YIELD STRESS	50 KSI
MOMENT OF INERTIA (POSITIVE BENDING), $I_x$	0.919 IN <sup>4</sup> /FT
MOMENT OF INERTIA (NEGATIVE BENDING), $I_y$	0.921 IN <sup>4</sup> /FT
SECTION MODULUS (POSITIVE MOMENT), $S_x$	0.512 IN <sup>3</sup> /FT
SECTION MODULUS (NEGATIVE MOMENT), $S_y$	0.539 IN <sup>3</sup> /FT
  - DECK FINISH SHALL BE GALVANIZED G60.
  - COMPOSITE FLOOR DECK IS DESIGNED TO BE UNSHORED UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR SHORING DECK OR INCREASING DECK GAGE WHERE THE DECK CLEAR SPAN EXCEEDS THE SDI MAXIMUM UNSHORED CLEAR SPAN CONSIDERING THE LAYOUT OF THE DECK, ANY SUCH AREA OF SHORING OR INCREASED DECK GAGE SHALL BE NOTED ON THE SHOP DRAWINGS AND APPROVED BY THE STRUCTURAL ENGINEER.
- CONCRETE SLABS ON METAL DECK
  - FLOOR SLABS ARE TO BE FINISHED LEVEL TO THE FLATNESS AND LEVELNESS REQUIREMENTS IN THE SPECIFICATIONS. THE WEIGHT OF THE WET CONCRETE WILL CAUSE DEFLECTIONS OF THE STEEL FRAMING. THEREFORE, CONCRETE OVERRUNS ARE TO BE ANTICIPATED AND INCLUDED IN THE CONTRACTOR'S BASE BID.
  - COORDINATE EMBEDDED ITEMS REQUIRED FOR ARCHITECTURAL, STRUCTURAL, AND MEP ELEMENTS.

## I. POST-INSTALLED ANCHORS AND REINFORCING STEEL

- POST-INSTALLED ANCHORS AND REINFORCING STEEL SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS OR REINFORCING STEEL IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS OR REINFORCING STEEL.
- ANCHORS AND REINFORCING STEEL SHALL BE INSTALLED PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI).
- SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER ALONG WITH CALCULATIONS THAT ARE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE TO THAT OF THE SPECIFIED PRODUCTS. THE SUBSTITUTION REQUEST SHALL INCLUDE CODE EVALUATION REPORTS STATING THAT THE PRODUCTS ARE APPROVED FOR THE INTENDED USE AND COMPLIANT WITH THE APPLICABLE BUILDING CODE. THE CALCULATIONS SHALL USE THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

- THE CONTRACTOR SHALL ARRANGE ONSITE INSTALLATION TRAINING BY THE MANUFACTURER FOR EACH PRODUCT TO BE INSTALLED. SUBMIT TO THE STRUCTURAL ENGINEER DOCUMENTATION CONFIRMING TRAINING OF ALL PERSONNEL WHO WILL BE INSTALLING PRODUCTS. TRAINING SHALL OCCUR PRIOR TO COMMENCEMENT OF PRODUCT INSTALLATION. INSTALLATION OF ADHESIVE ANCHOR PRODUCTS IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATION RESISTING SUSTAINED TENSION LOADS SHALL BE CONDUCTED BY AN INSTALLER CERTIFIED IN ACCORDANCE WITH THE AICRIS ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM. PROOF OF CERTIFICATION SHALL BE MAINTAINED AT THE JOB SITE.
- ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS, CONCRETE STRENGTH AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS. IF NO SPACING OR EDGE DISTANCES ARE SPECIFIED ON THE STRUCTURAL DRAWINGS, REFER TO APPLICABLE EVALUATION REPORT FOR CRITICAL SPACING AND EDGE DISTANCES.
- EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR OR REINFORCING LOCATIONS. THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS OR REINFORCING, BY FERROSCAN, GPR, X-RAY, CHIPPING, OR OTHER MEANS IN ORDER TO AVOID CONFLICT WITH INSTALLATION. THE CONTRACTOR SHALL NOT DAMAGE ANY REINFORCING STEEL PRIOR TO CONSULTING WITH THE STRUCTURAL ENGINEER.
- EMBEDMENT DEPTHS SPECIFIED ARE NOMINAL EMBEDMENT DEPTHS, U.N.O. PROVIDE THE FOLLOWING MINIMUM EMBEDMENT DEPTHS, U.N.O.:

EXPANSION AND SCREW ANCHORS	8" ANCHOR DIAMETER
ADHESIVE ANCHORS	12" ANCHOR DIAMETER
ADHESIVE REINFORCING	12" BAR DIAMETER
- COORDINATE HOLE REQUIREMENTS WITH THE MANUFACTURE'S REQUIREMENTS.
- ADHESIVE ANCHOR INSERT SHALL BE ALL THREAD ROD OF THE FOLLOW MATERIAL, U.N.O.:

INTERIOR ENVIRONMENTS:	ASTM F1554 Gr. 36
EXTERIOR ENVIRONMENTS:	ASTM F1554 Gr. 36 GALV. PER ASTM B695, CLASS 65 TYPE I
CORROSIVE ENVIRONMENTS:	ASTM A193 GR. B8M TYPE 316
- MECHANICAL AND SCREW ANCHORS IN EXTERIOR AND CORROSIVE ENVIRONMENTS SHALL BE APPROVED BY THE MANUFACTURER FOR THE EXPOSURE.
- ADHESIVE CAPACITY IS DEPENDENT UPON INSTALLATION CONDITIONS. THE FOLLOWING INSTALLATION CONDITIONS HAVE BEEN ASSUMED, NOTIFY THE STRUCTURAL ENGINEER IF THESE CONDITIONS DO NOT EXIST:

HOLES DRILLED WITH HAMMER DRILL WITH CARBIDE TIPPED DRILL BIT	
DRY HOLE	
CONCRETE CURED FOR A MINIMUM OF 21 DAYS	
TEMPERATURE CATEGORY B (110° F LONG TERM AND 130° F SHORT TERM)	
- POST-INSTALLED ANCHORS AND REINFORCING INSTALLED INTO CONCRETE:
  - MECHANICAL AND SCREW ANCHORS SHALL BE QUALIFIED FOR USE IN CRACKED CONCRETE IN ACCORDANCE WITH ACI CODE-308.2 AND ICC-ES AC108. ADHESIVE SHALL BE ONE OF THE FOLLOWING, U.N.O.:

EXPANSION ANCHORS	
SIMPSON STRONG-TIE STRONG-BOLT 2 (ICC ESR-3037)	
HLTI KWIK BOLT-T22 (ICC ESR-4266)	
DEWALT POWER-STD+ S02 (ICC ESR-2502)	
  - SCREW ANCHORS:

SIMPSON STRONG-TIE TITEN-HD (ICC ESR-2713)	
HLTI KWIK HUS-EZ (ICC ESR-3027)	
DEWALT SCREW-BOLT+ (ICC ESR-3889)	
  - SHALLOW EMBEDMENT ANCHORS (<34"):

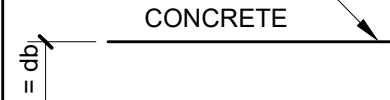
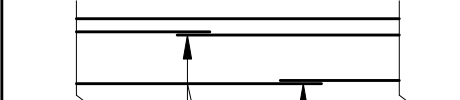
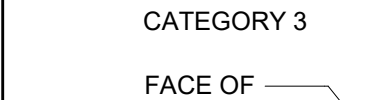
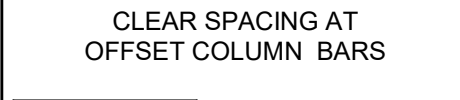

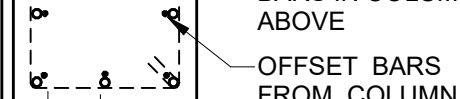
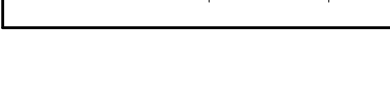
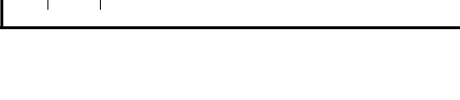
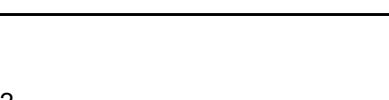
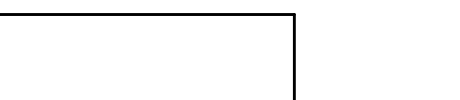
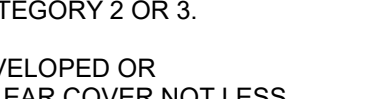



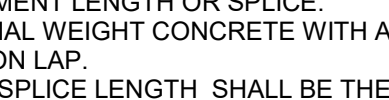
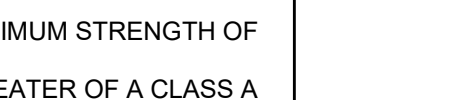
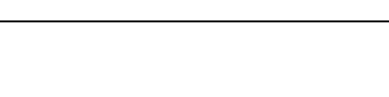
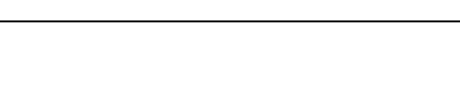
HLTI HDI-P-TZ (ICC ESR-4236)	
DEWALT MID-ANCHOR-UT+ (ICC ESR-3912)	
- ADHESIVES USED FOR ANCHORS IN CONCRETE SHALL BE QUALIFIED FOR USE IN CRACKED CONCRETE IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308. ADHESIVE SHALL BE ONE OF THE FOLLOWING, U.N.O.:

SIMPSON STRONG-TIE SET-3G (ICC-ES ESR-4057)	
HLTI HIT-RE 500 v3 SLOW CURE (ICC ESR-3814)	
DEWALT PURE110+ (ICC ESR-3298)	
- ADHESIVE USED FOR INSTALLING REINFORCING STEEL IN EXISTING CONCRETE SHALL BE QUALIFIED IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308. ADHESIVE SHALL BE ONE OF THE FOLLOWING, U.N.O.:

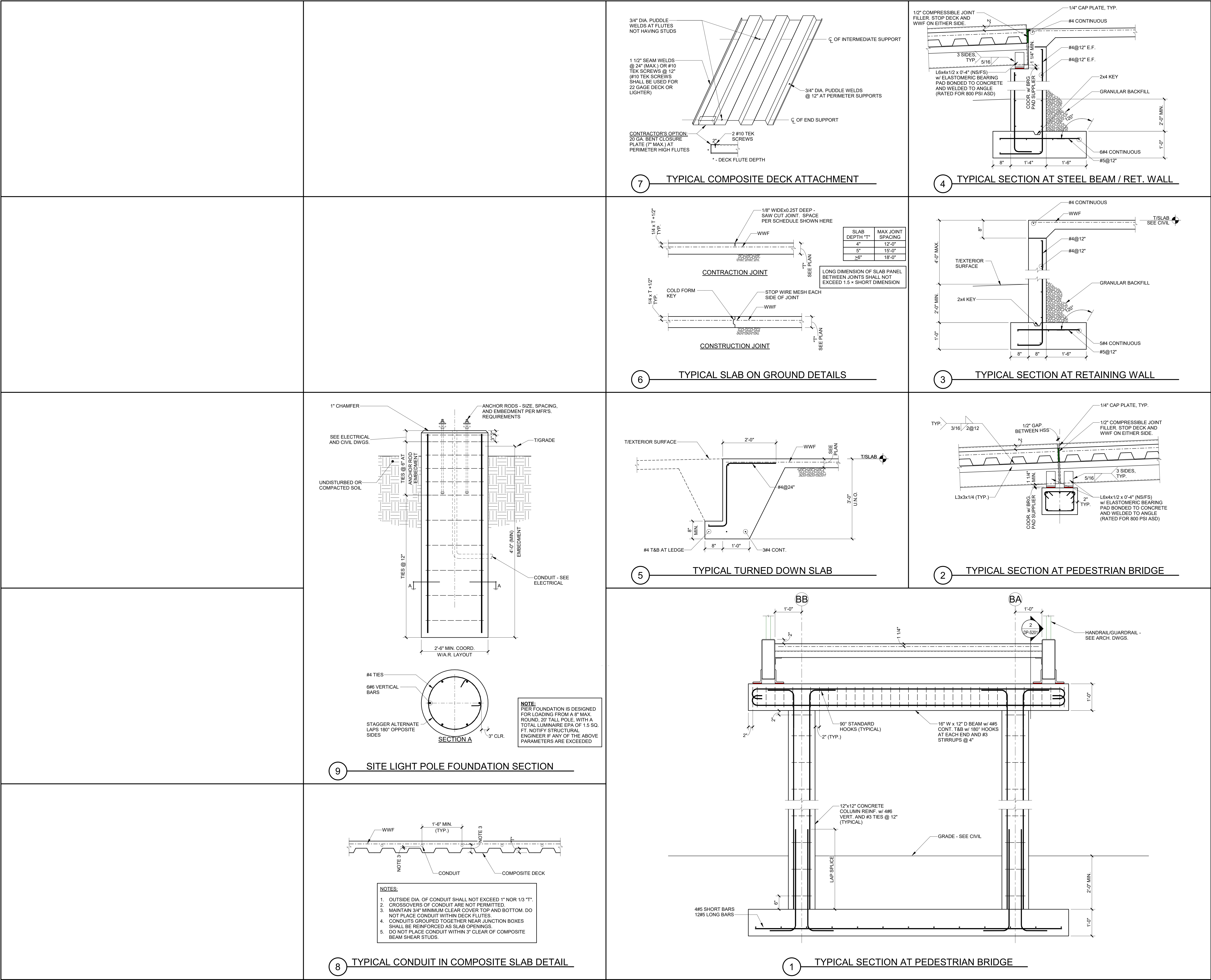
SIMPSON STRONG-TIE SET-3G (ICC-ES ESR-4057)	
HLTI HIT-RE 500 v3 SLOW CURE (ICC ESR-3814)	
DEWALT PURE110+ (ICC ESR-3298)	

### REINFORCING LAP LENGTH SCHEDULE

TENSION LAP SPlice LENGTHS, (INCHES) FOR GRADE 60 (4) UNCOATED BARS, $f_c = 3,000$ psi; NORMAL-WEIGHT CONCRETE (5)									
BAR SIZE	LAP CLASS	LAP LENGTH PER SPACING AND COVER CASE (3)				OTHER BARS CATEGORY (2)			
		TOP BARS CATEGORY (2)	OTHER BARS CATEGORY (2)	OTHER BARS CATEGORY (2)	OTHER BARS CATEGORY (2)	OTHER BARS CATEGORY (2)	OTHER BARS CATEGORY (2)	OTHER BARS CATEGORY (2)	OTHER BARS CATEGORY (2)
		1	2	3	1	2	3	1	2
#3	A	32	22	13	25	17	12	15	12
	B	42	28	17	32	22	13	19	12
#4	A	43	29	17	33	22	13	19	12
	B	56	37	23	43	29	17	25	15
#5	A	54	36	22	41	28	17	24	15
	B	70	47	28	54	36	22	31	19
#6	A	64	43	26	50	33	20	27	16
	B	84	56	34	64	43	26	37	22
#7	A	94	63	38	72	48	29	42	25
	B	122	81	49	94	63	38	54	33
#8	A	107	72	43	82	55	33	48	29
	B	139	93	56	107	72	43	62	37
#9	A	121	81	49	93	62	38	54	33
	B	157	105	63	121	81	49	70	42
#10	A	136	91	55	105	70	42	61	37
	B	177	118	71	136	91	55	81	47
#11	A	151	101	61	116	78	47	67	41
	B	196	131	79	151	101	61	87	53

TENSION LAP SPlice LENGTHS, (INCHES) FOR GRADE 60 (4) UNCOATED BARS, $f_c = 5,000$ psi; NORMAL-WEIGHT CONCRETE (5)									
BAR SIZE	LAP CLASS	LAP LENGTH PER SPACING AND COVER CASE (3)							
		TOP BARS CATEGORY (2)			OTHER BARS CATEGORY (2)				
		1	2	3	1	2	3		
#3	A	25	17	12	19	13	12		
	B	33	22	13	25	17	12		
#4	A	33	22	14	26	17	12		
	B	42	28	17	32	22	13		
#5	A	54	36	22	42	28	17		
	B	65	43	26	50	33	20		
#6	A	50	33	20	38	26	16		
	B	65	43	26	50	33	20		
#7	A	73	49	29	58	37	23		
	B	94	63	38	73	49	29		
#8	A	83	55	33	64	43	26		
	B	109	72	43	83	55	33		
#9	A	94	63	38	72	48	29		
	B	122	81	49	94	63	38		
#10	A	105	70	42	81	54	33		
	B	137	91	55	105	70	42		
#11	A	117	76	47	90	60	36		
	B	152	101	61	117	78	47		







FINAL DEVELOPMENT PLAN

HCA LEE'S SUMMIT MEDICAL CENTER

LEE'S SUMMIT, JACKSON COUNTY COUNTY, MO

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  
24.48 AC. (1,066,349 FT²)  
SITE ACREAGE: CP-2  
EXISTING ZONING: HOSPITAL  
PROPOSED USE:

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

PARKING SUMMARY

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

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

159 SPACES REQUIRED  
614 SPACES REQUIRED  
47 SPACES REQUIRED  
820 SPACES REQUIRED  
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 RAMP 8 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.

ARCHITECT

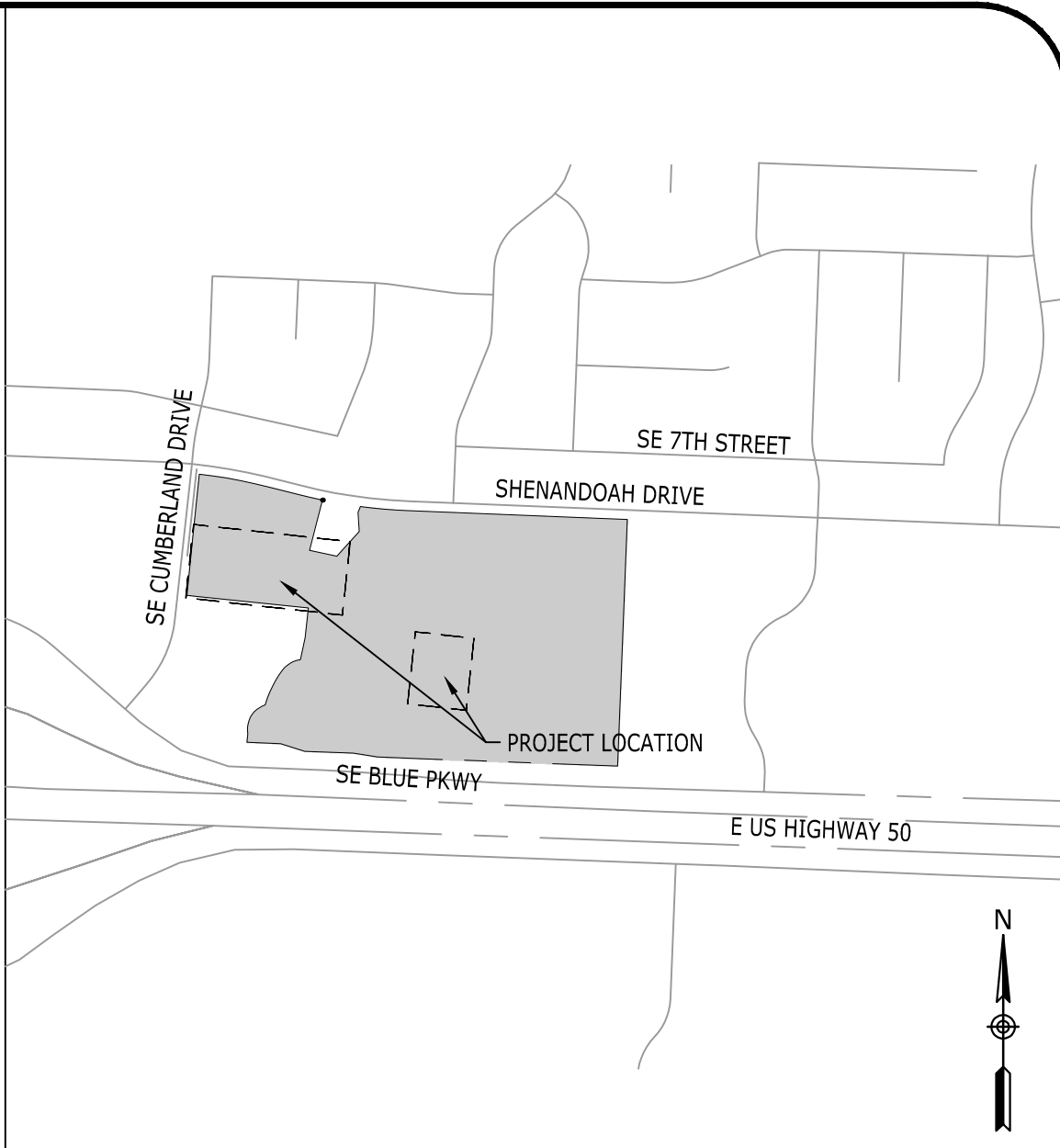
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SCOTTSDALE, AZ 85251  
602-943-8950

PREPARED FOR

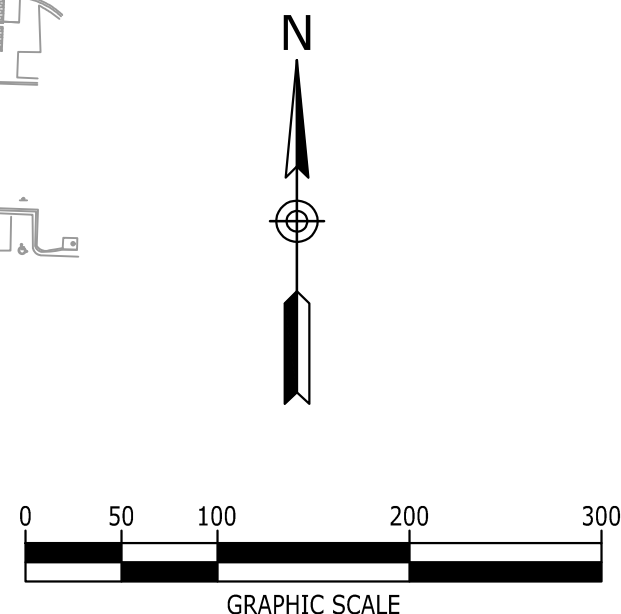
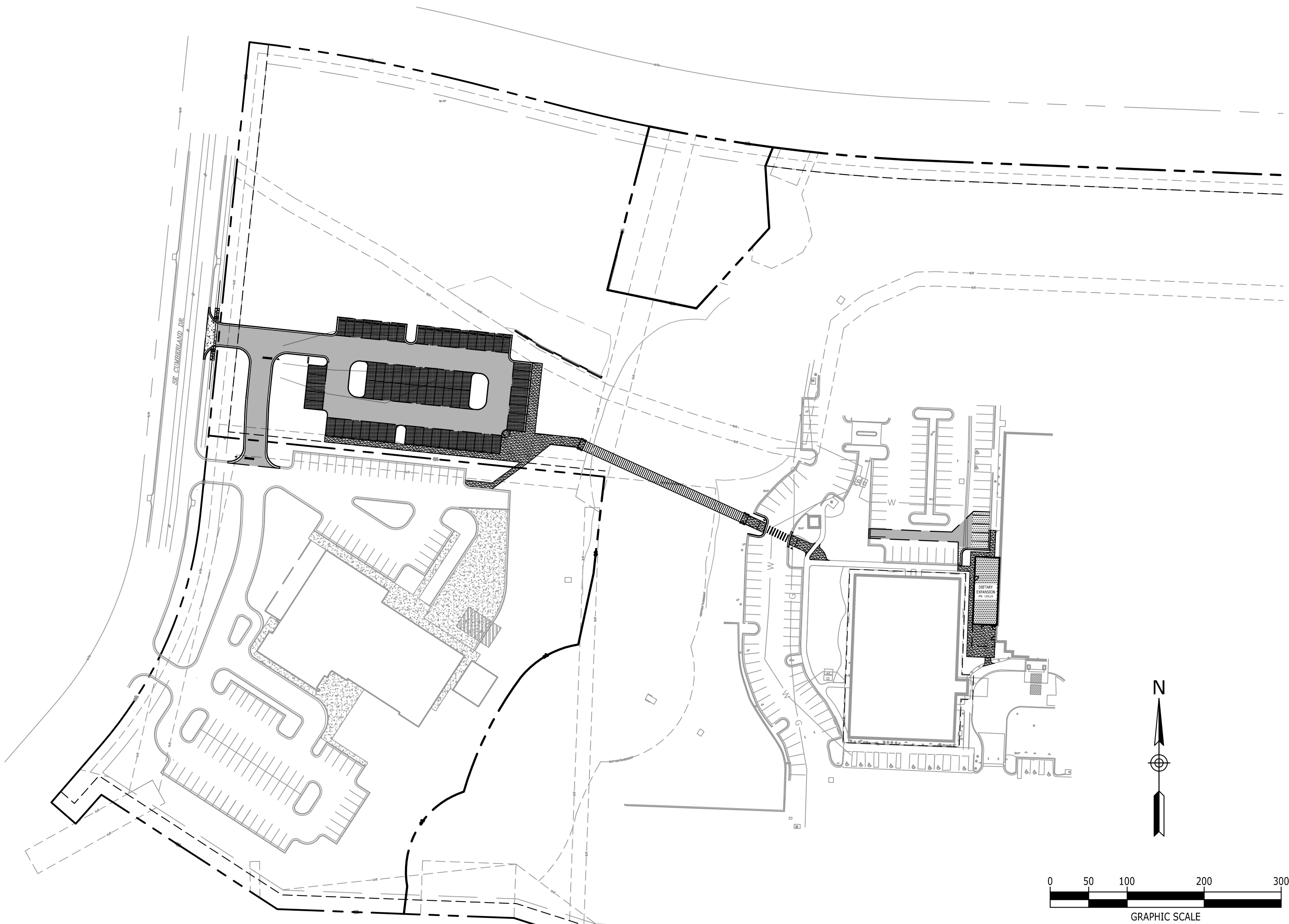
LEE'S SUMMIT MEDICAL CENTER  
2100 SE BLUE PARKWAY  
LEE'S SUMMIT, MO 64063  
816-282-5000

CIVIL ENGINEER/LANDSCAPE ARCHITECT

Catalyst  
DESIGN GROUP  
1524 WILLIAMS DRIVE SUITE 201  
MURFREESBORO, TN 37129  
(615) 622-7200



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
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C4.0	OVERALL DEMOLITION PLAN
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C6.0	OVERALL GRADING & DRAINAGE PLAN
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C6.4	PEDESTRIAN BRIDGE PLAN & PROFILE
C7.0	OVERALL UTILITY PLAN
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C8.0	SITE DETAILS
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L1.0	OVERALL LANDSCAPE PLAN
L1.1	DETAILED LANDSCAPE PLAN
L1.2	DETAILED LANDSCAPE PLAN
L2.0	LANDSCAPE DETAILS

COVER SHEET

C0.0

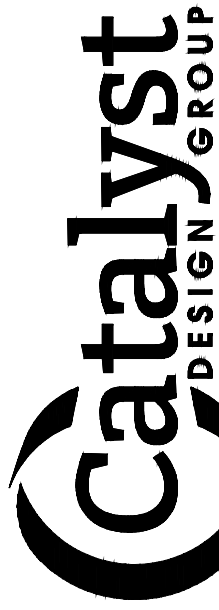


P:\2024\20240037\_Devenney - HCA Lee's Summit Medical Center - Med Surg Exp\dwg\Construction\20240037\_EVL.dwg-DP-C1.D EXISTING CONDITIONS Oct 28, 2024 mblissard



**LEGAL DESCRIPTION:**

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MEDICAL CENTER**  
2000 SE SHENANDOAH DRIVE  
LEE'S SUMMIT, MO. 64063  
JACKSON COUNTY

DRAWING TITLE  
**EXISTING  
CONDITIONS**

PROJECT NUMBER  
20240037

DRAWING NUMBER

**DP-C1.0**



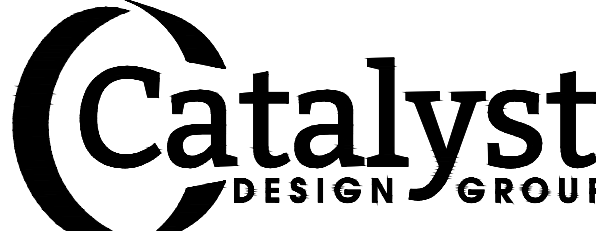
Devenney Group Ltd., Architects

6900 East Camelback Road  
Suite 500  
Scottsdale, AZ 85251

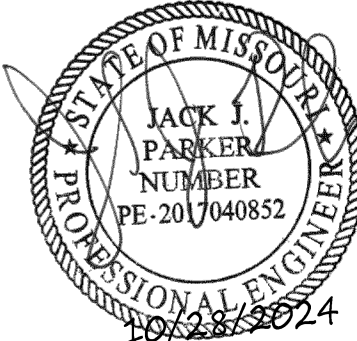
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www.devenneygroup.com

Consultant:



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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:  
0972400009

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

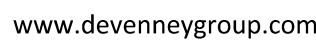
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JOB NUMBER: 6406.24

EXISTING  
CONDITIONS

**DP-C1.0**

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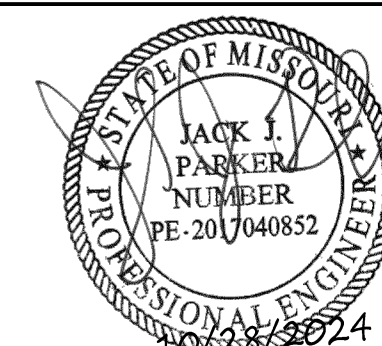
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MISSOURI DHSS

FACILITY NUMBER  
0972400009

AGENCY APPROVALS  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	2024/09/1
SCALE:	1:5
DRAWN:	A
REVIEWED:	W
JOB NUMBER:	6406.2

## 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

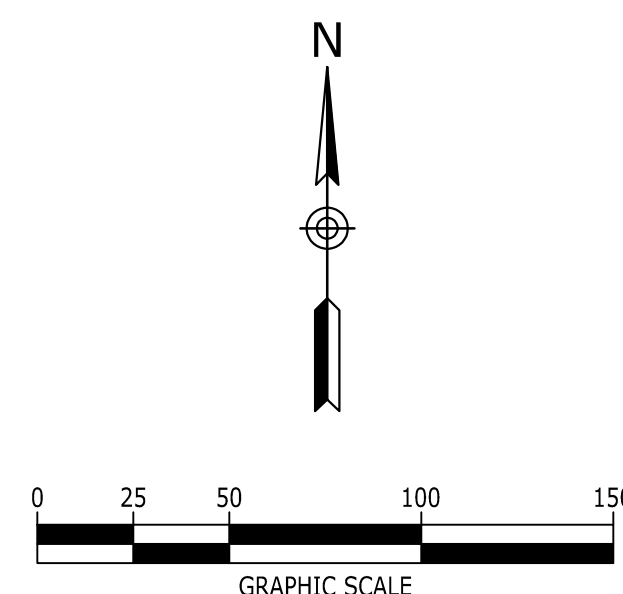
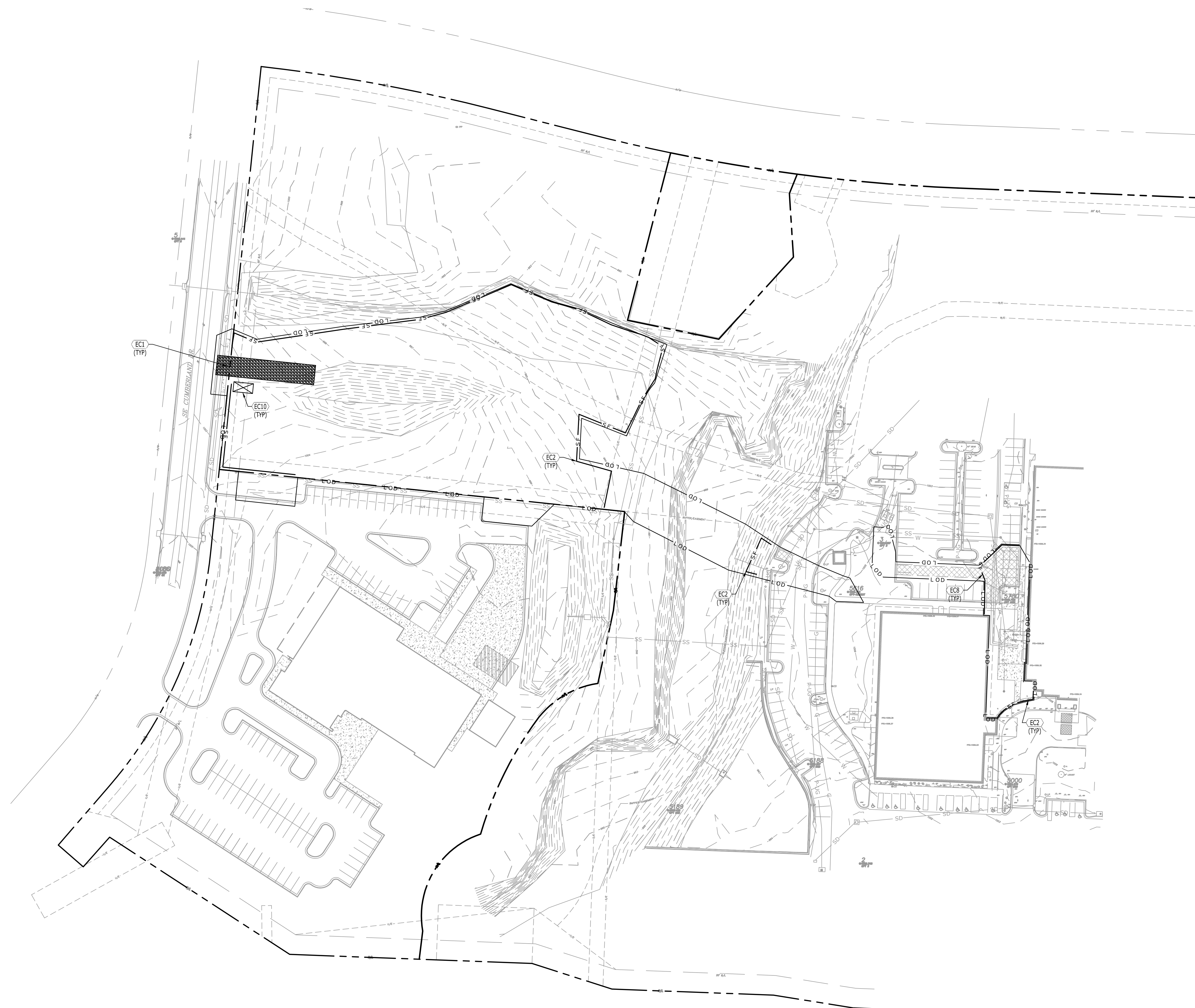
**SITE DESCRIPTION AND NOTES:**

THE SITE IS LOCATED ON TAX MAP 60, PARCEL 60-420-99-15-00-0-00-000 IN LEE'S SUMMIT, JACKSON COUNTY 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.

1. APPROXIMATE CONSTRUCTION TIME TABLE:  
BEGIN CONSTRUCTION                 - FEB 2025  
COMPLETE CONSTRUCTION          - MAY 2026
2. 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.
3. TOTAL PROJECT AREA = 1,066,349 SF (24.48 AC.)  
DISTURBED AREA = 87,394 S.F. (2,004+ AC.)

**EROSION CONTROL NOTES:**

1. 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.
2. 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.
3. 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.
4. PRE-CONSTRUCTION VEGETATIVE GRASS COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 10 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS DISSEED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
5. CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
6. 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.
7. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
8. 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.
9. 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.



**Catalyst**  
DESIGN GROUP

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

DRAWING TITLE

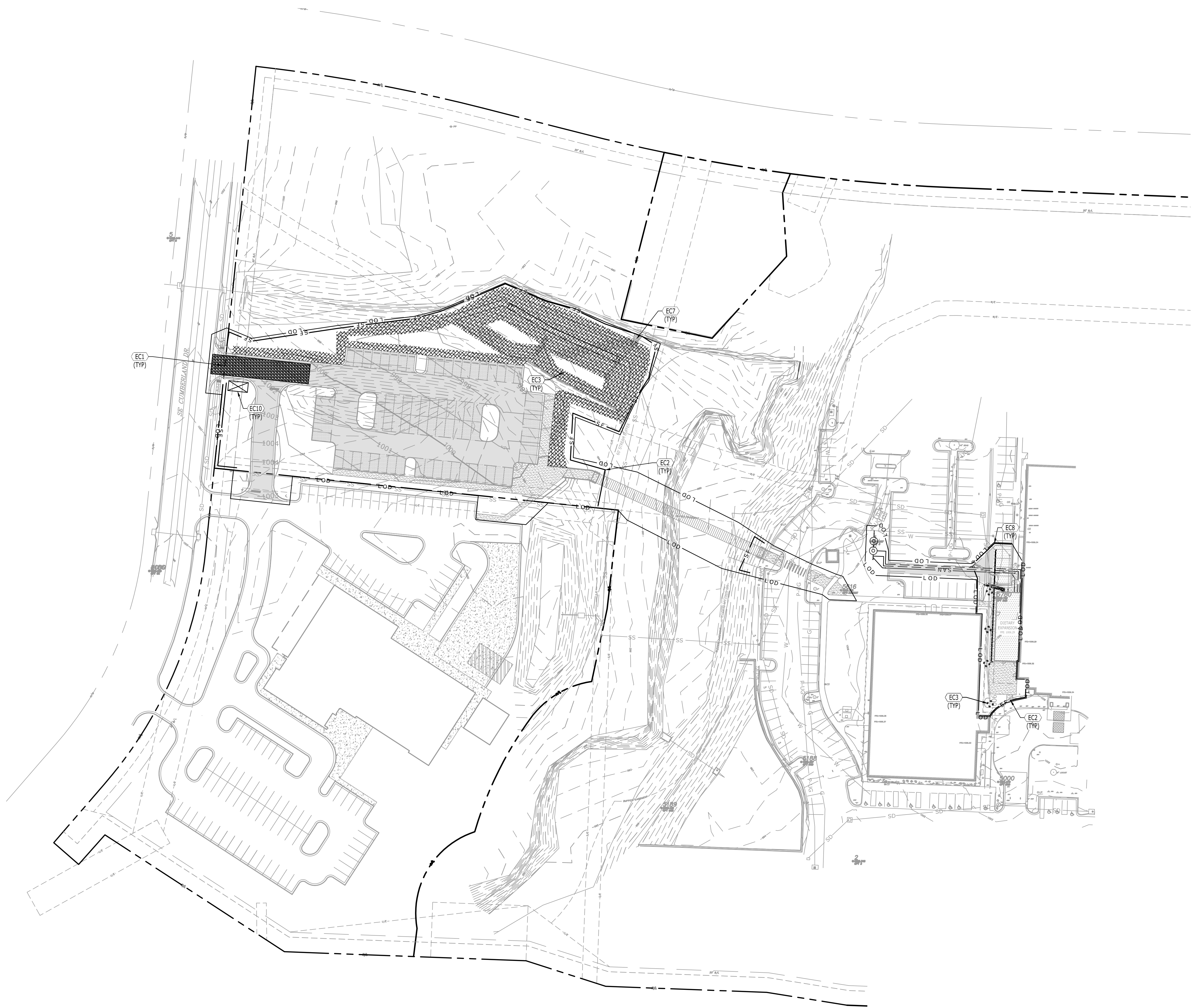
INITIAL EROSION  
CONTROL PLAN

PROJECT NUMBER  
20240037

DRAWING NUMBER

DP-C3.0





EROSION CONTROL KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
EC1	TEMPORARY CONSTRUCTION ENTRANCE	1 / DP-C3.2
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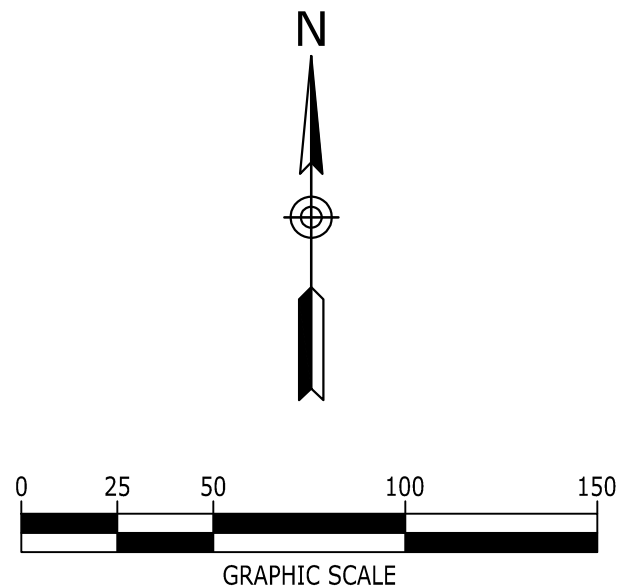
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  - REMOVE ALL OTHER EROSION TEMPORARY CONTROL DEVICES PRIOR TO AS-BUILT APPROVALS.
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LEE'S SUMMIT, MO, 64063  
JACKSON COUNTY

NO.		DATE	DESCRIPTION

DRAWING TITLE	
FINAL EROSION CONTROL PLAN	
PROJECT NUMBER	20240037
DRAWING NUMBER	DP-C3.1

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

FINAL EROSION CONTROL PLAN

DP-C3.1



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

Consultant:



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SITE & BRIDGE  
EARLY RELEASE  
PACKAGE

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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













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

NO.		DATE	DESCRIPTION

DRAWING TITLE  
OVERALL  
DEMOLITION PLAN  
PROJECT NUMBER  
20240037  
DRAWING NUMBER  
DP-C4.0

**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**  
1524 WILLIAMS DRIVE, SUITE 201, MURFREESBORO, TN 37129  
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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:  
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



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**MISSOURI DHSS**

FACILITY NUMBER  
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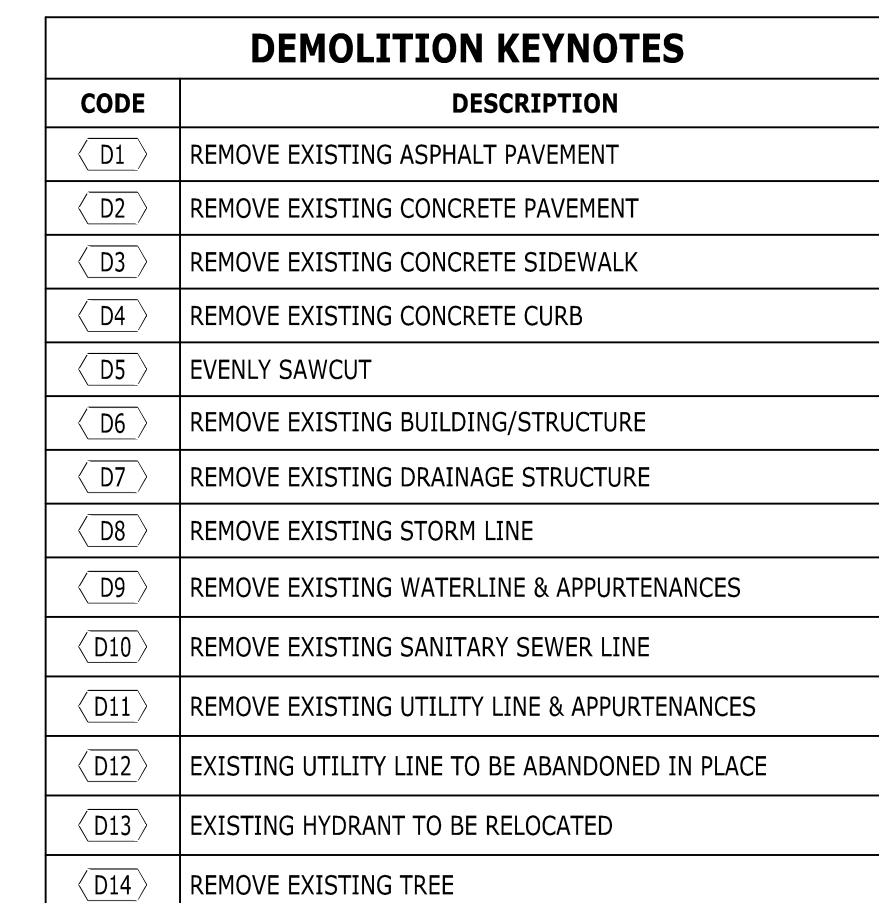
AGENCY APPROVALS:  
AGENCY





REVISIONS		
REV #	DESCRIPTION	DATE

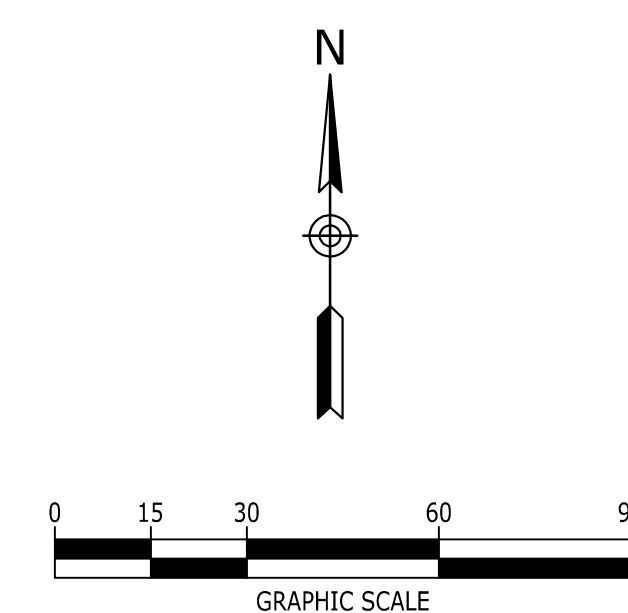
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SCALE:	1:30
DRAWN:	AP
REVIEWED:	WB
JOB NUMBER:	6406.24

Autodesk Docu  
DETAILED  
DEMOLITION PLAN

DP-C4.1



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



**Catalyst**  
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FINAL DEVELOPMENT PLAN  
HCA LEE'S SUMMIT  
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JACKSON COUNTY

[illegible]

DRAWING TITLE

DETAILED  
DEMOLITION PLAN

PROJECT NUMBER  
20240037

DRAWING NUMBER

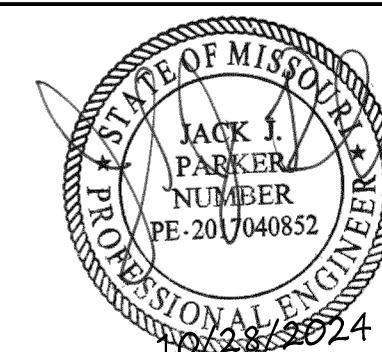
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Consultant



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MISSOURI DHSS

FACILITY NUMBER  
0972400009

AGENCY APPROVALS:  
AGENCY

REVISIONS		
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DETAILED  
DEMOLITION PLAN

DP-C4.2



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816-282-5000

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JACKSON COUNTY

[illegible]

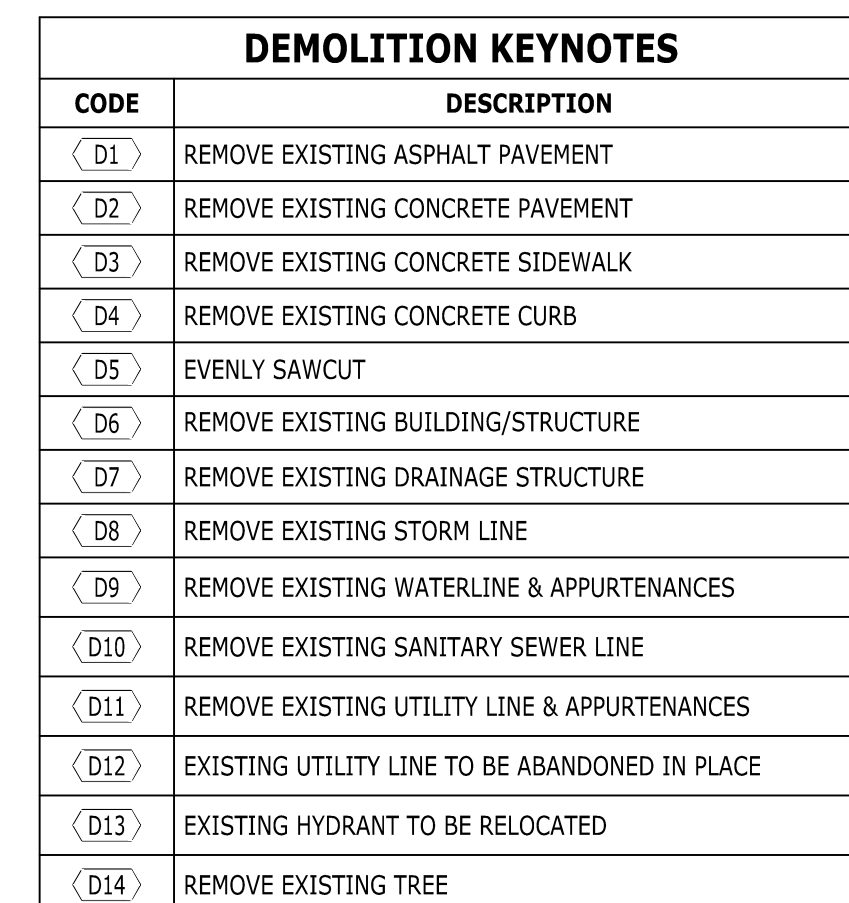
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DETAILED  
DEMOLITION PLAN

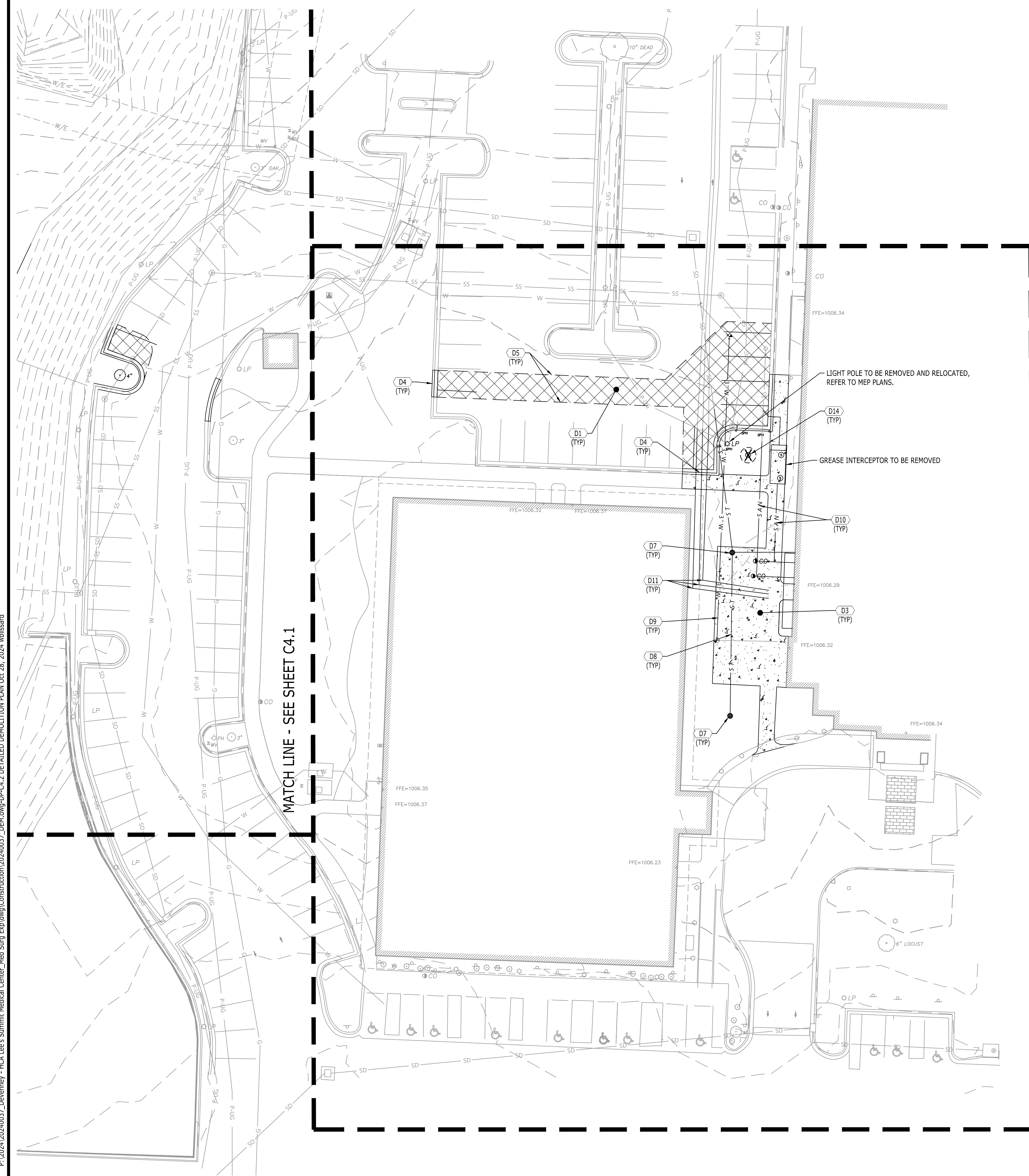
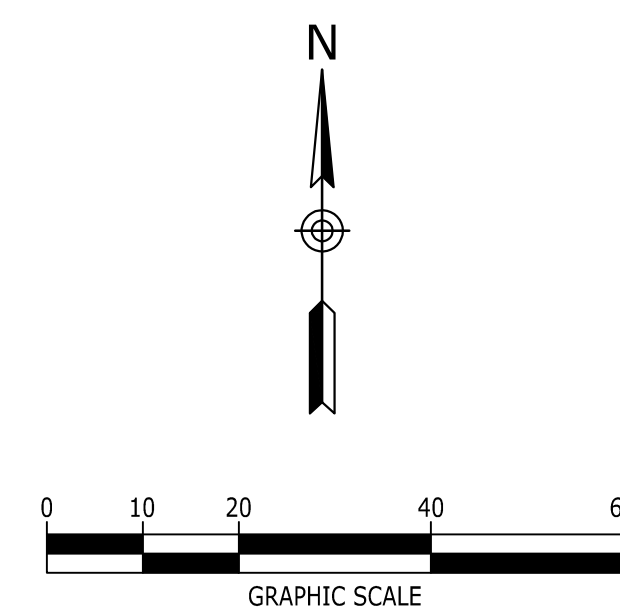
PROJECT NUMBER	20240037
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DRAWING NUMBER

DP-C4.2

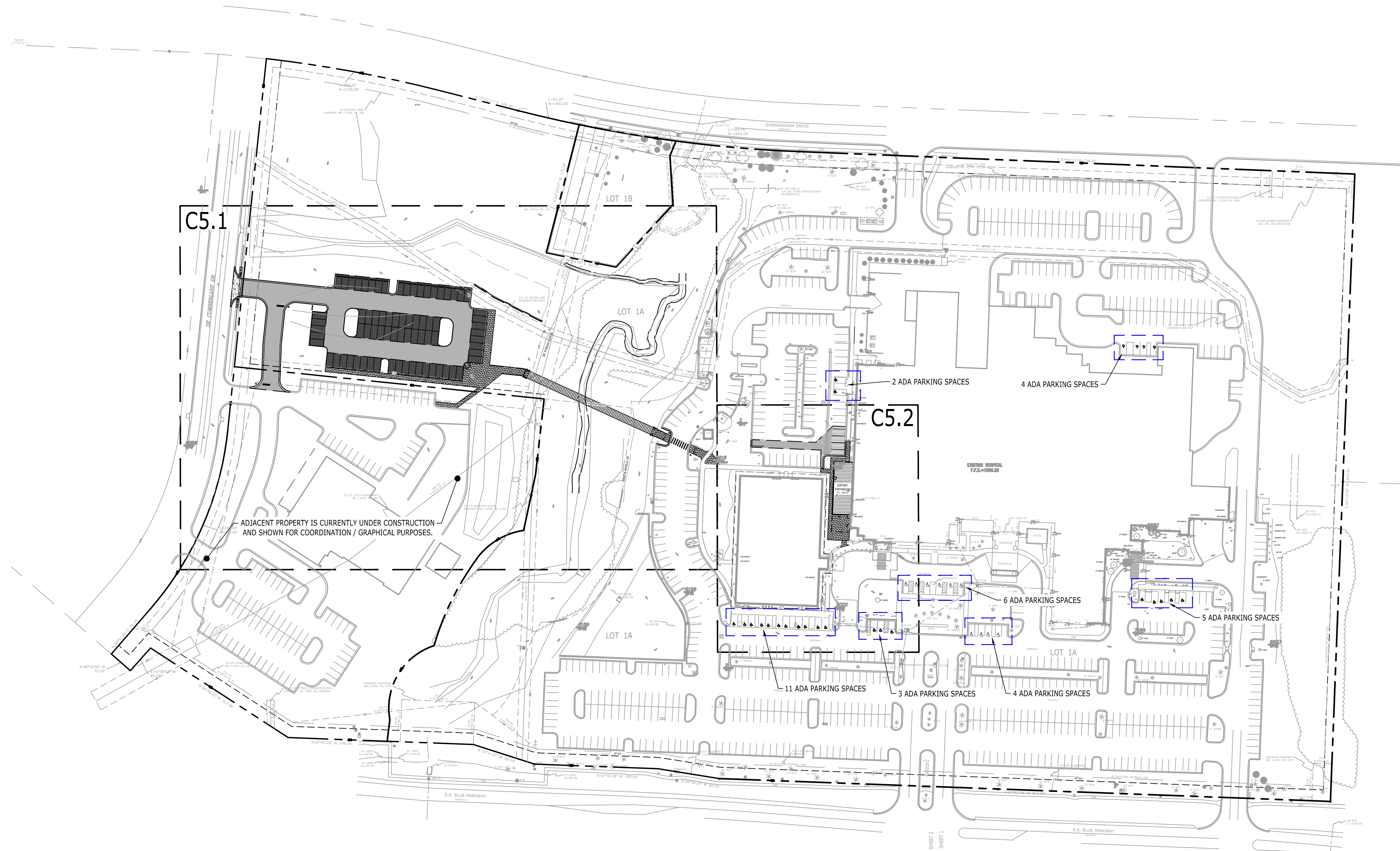


LEGEND	
BUILDING TO BE REMOVED	
CONCRETE TO REMOVE	
ASPHALT PAVEMENT TO REMOVE	
TREES TO BE REMOVED	



2:12024\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





LEGEND	
CONCRETE PAVEMENT	
CONCRETE SIDEWALK	
HEAVY DUTY PAVEMENT	
LIGHT DUTY PAVEMENT	
PAINTED STRIPE	
CONCRETE CURB	
CENTERLINE	

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

#### 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 FT<sup>2</sup>)  
EXISTING ZONING: CP-2  
PROPOSED ZONING: HOSPITAL

IMPERVIOUS SURFACE AREA: 0.04 AC. (1,766 FT<sup>2</sup>)  
BUILDINGS: 0.94 AC. (40,787 FT<sup>2</sup>)  
DRIVES/SIDEWALKS: 0.94 AC. (40,787 FT<sup>2</sup>)  
TOTAL PROPOSED IMPERVIOUS AREA: 0.98 AC. (42,553 FT<sup>2</sup>)

#### PARKING SUMMARY

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

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 ADDITION) 114 BEDS	752	2	75	825	820

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

159 SPACES REQUIRED  
614 SPACES REQUIRED  
47 SPACES REQUIRED  
820 SPACES REQUIRED  
752 SPACES

PARKING PROVIDED:  
STANDARD PARKING:  
ADA PARKING:  
TOTAL PARKING PROVIDED:

795 SPACES  
35 SPACES  
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  
JACK PARKER  
jparker@catalyst-dg.com

PHONE NO.:  
CONTACT NAME:  
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.



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

FACILITY NUMBER:  
0972400009

AGENCY APPROVALS:  
AGENCY

DRAWING TITLE  
OVERALL LAYOUT  
PLAN

PROJECT NUMBER  
20240037

DRAWING NUMBER

DP-C5.0

Devenney  
GROUP

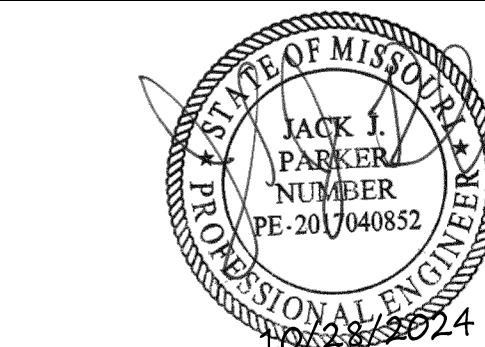
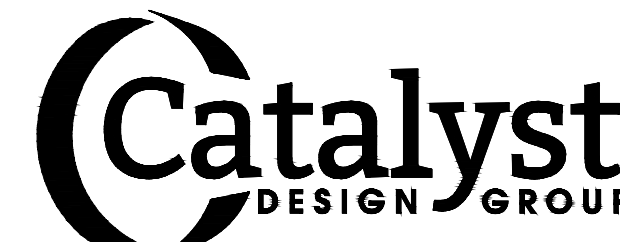
Devenney Group Ltd., Architects

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Suite 500  
Scottsdale, AZ 85251

T: 602.943.8950

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CITY OF LEE'S SUMMIT BUILDING DEPT.  
MISSOURI DHS

FACILITY NUMBER:  
0972400009

AGENCY APPROVALS:  
AGENCY

REVISIONS

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

OVERALL LAYOUT  
PLAN

DP-C5.0



HCA - LEE'S SUMMIT  
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LEE'S SUMMIT, MO 64063

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CITY OF LEE'S SUMMIT BUILDING DEPT.  
MISSOURI DHSS

FACILITY NUMBER  
0972400009

AGENCY APPROVALS:  
AGENCY

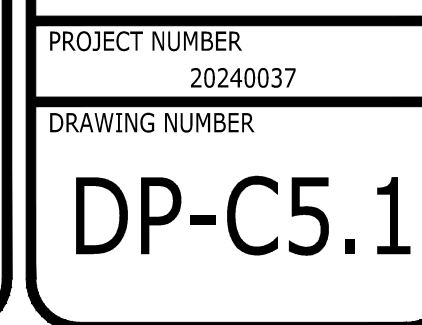
REVISIONS		
REV #	DESCRIPTION	DATE


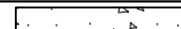

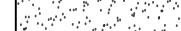
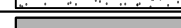

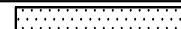

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JOB NUMBER:	6406.24

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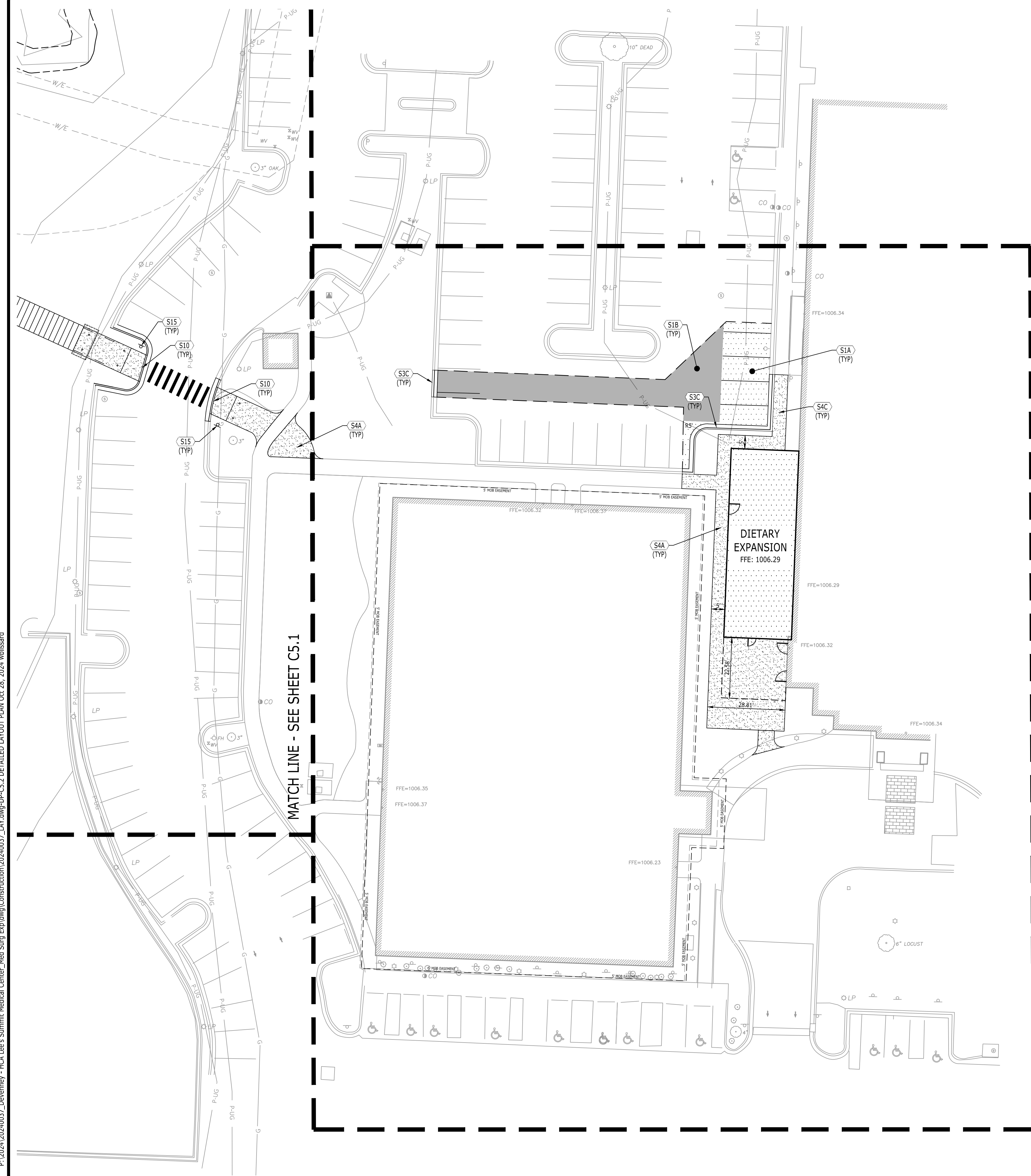
DETAILED LAYOUT  
PLAN

DP-C5.1




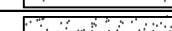





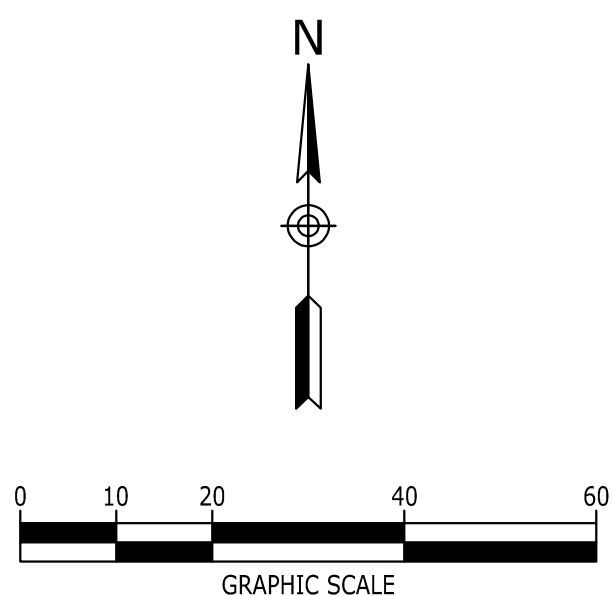
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CONCRETE PAVEMENT	
CONCRETE SIDEWALK	
HEAVY DUTY PAVEMENT	
LIGHT DUTY PAVEMENT	
PAINTED STRIPE	
CONCRETE CURB	
CENTERLINE	
TACTILE WARNING	





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
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LEGEND	
CONCRETE PAVEMENT	
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HEAVY DUTY PAVEMENT	
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CONCRETE CURB	
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FINAL DEVELOPMENT PLAN  
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JACKSON COUNTY

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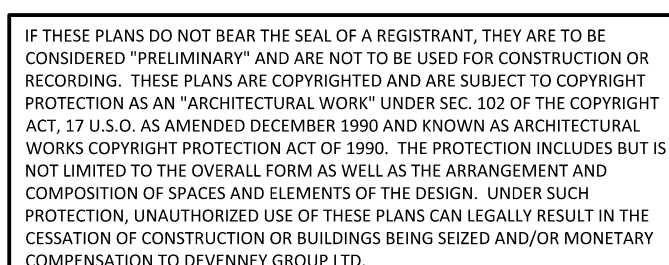
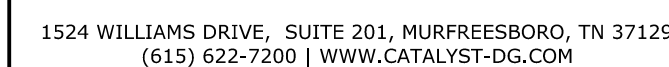
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DETAILED LAYOUT  
PLAN

PROJECT NUMBER	20240037
DRAWING NUMBER	DP-C5.2



Consultant



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**AUTHORITY HAVING JURISDICTION:**  
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**MISSOURI DHSS**

FACILITY NUMBER  
0972400009

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

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

## OVERALL GRADING & DRAINAGE PLAN

DP-C6.0



16-282-5000

FINAL DEVELOPMENT PLAN  
HCA LEE'S SUMMIT  
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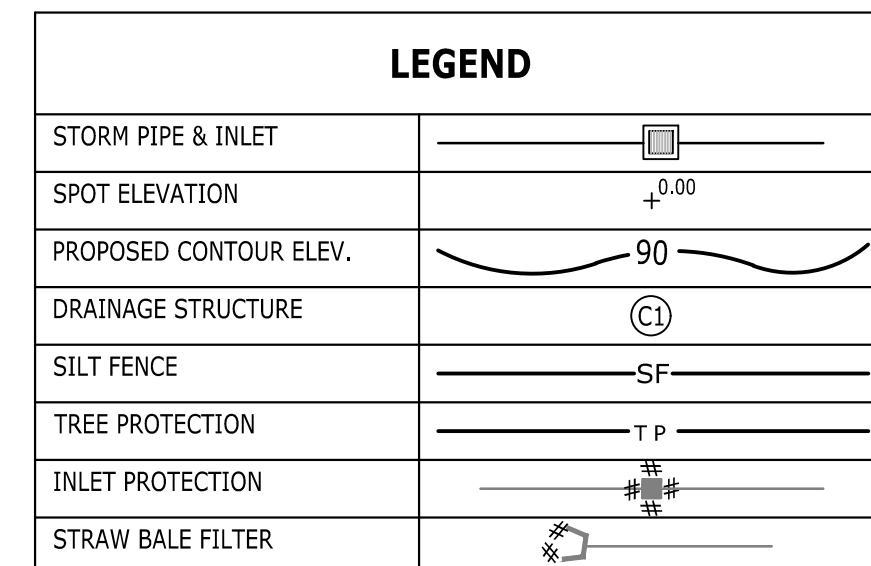
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OVERALL GRADING &  
DRAINAGE PLAN

PROJECT NUMBER	20240037
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DRAWING NUMBER

DP-C6.0

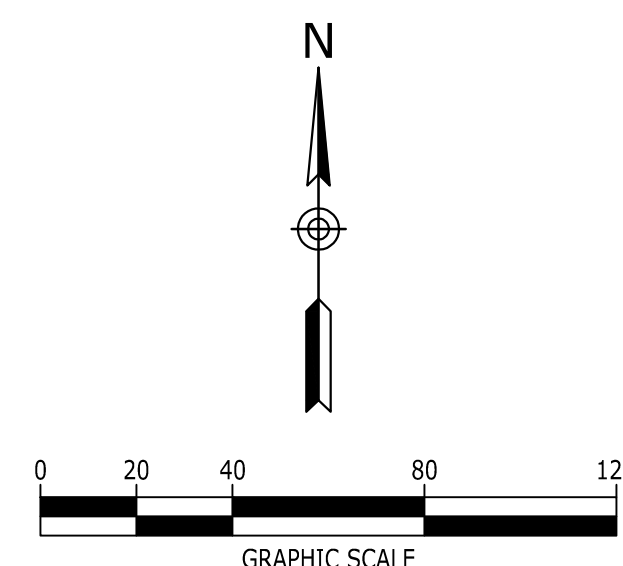


STRUCTURE TABLE		
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A0	HEADWALL	N/A
A1	POND OUTLET STRUCTURE	994.45
B1	NDS JUNCTION	1005.08
B2	NDS JUNCTION	1006.11
B3	NDS DRAIN	1004.92
B4	NDS DRAIN	1005.22
B5	NDS DRAIN	1006.00

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"	4	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



Know what's below.  
Call before you dig.





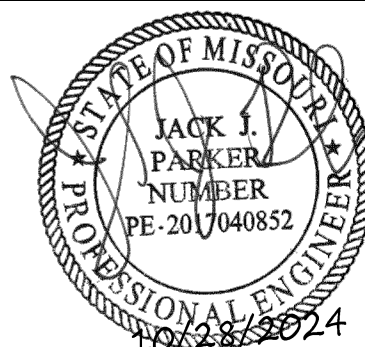


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HCA - LEE'S SUMMIT  
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2100 SE BLUE PKWY  
LEE'S SUMMIT, MO 64063

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

FACILITY NUMBER:  
0972400009

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

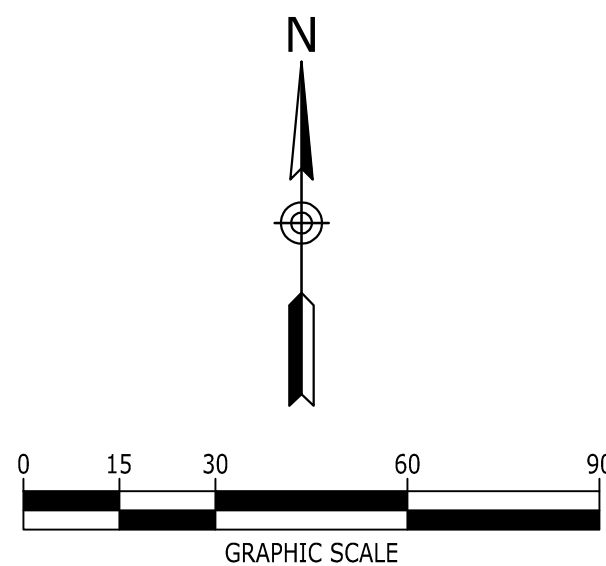
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DRAWN: AP  
REVIEWED: WB  
JOB NUMBER: 6406.24

DETAILED GRADING  
& DRAINAGE PLAN

DP-C6.1

GRADING & DRAINAGE KEYNOTES		
CODE	DESCRIPTION	DET # / SHT #
G4	NDS DRAIN INLET	9 / DP-C8.0
G6	DETENTION POND OUTLET STRUCTURE	DP-C6.3
G8B	CONCRETE HEADWALL - WINGED	11 / DP-C8.0
G14	DOUBLE CURB INLET	8 / DP-C8.1
G15	CONCRETE FLUME	2 / DP-C8.1

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

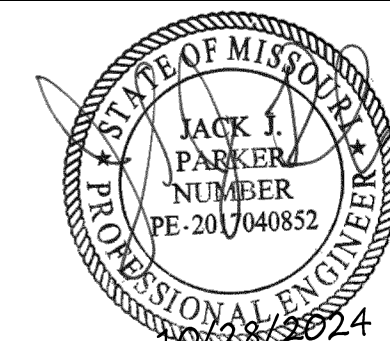
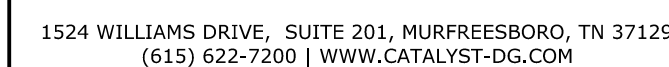


P:\2024\20240037\_Devenney - HCA Lee's Summit Medical Center\_Med Surg Exp\dwg\Construction\20240037\_GRA\dwg-dp-C6.1 DETAILED GRADING & DRAINAGE PLAN Oct 28, 2024 wbssaid

5/12/2024 2:05:24 PM Autodesk Docs://p062-24-0001-1461 LSNC Mod/Surg Expansion\_1423/6406.24/001 HCA - LSNC Mod/Surg Expansion.rvt



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**AUTHORITY HAVING JURISDICTION:**  
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**MISSOURI DHSS**

FACILITY NUMBER  
0972400009

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AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

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JOB NUMBER:	6406.24

DETAILED GRADING  
& DRAINAGE PLAN

DP-C6.2



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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

[illegible]

DRAWING TITLE

DETAILED GRADING  
& DRAINAGE PLAN

PROJECT NUMBER  
20240037

DRAWING NUMBER

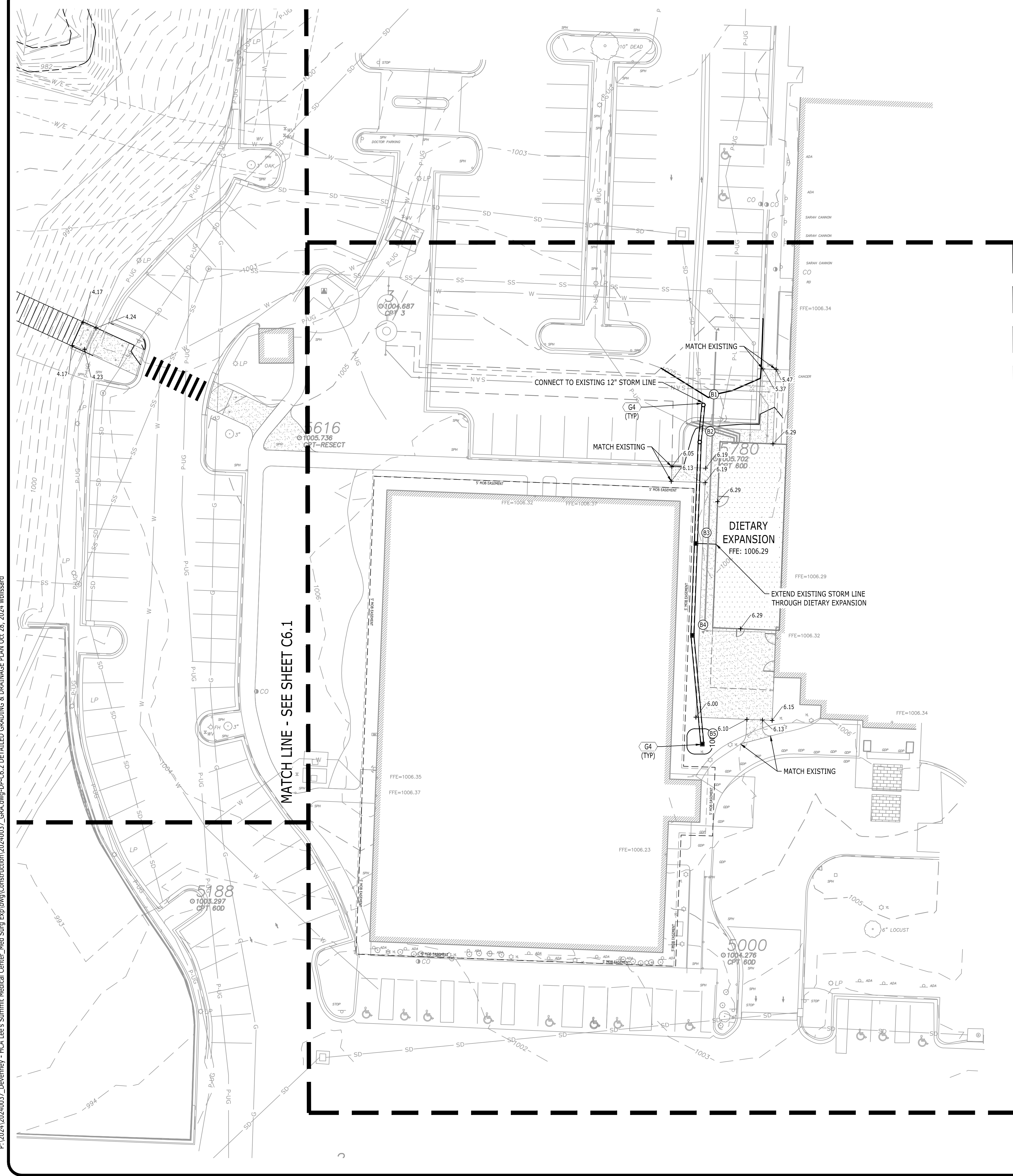
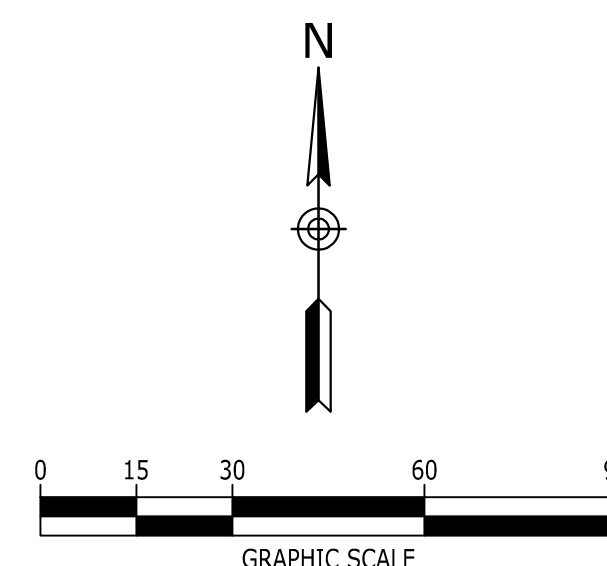
DP-C6.2

GRADING & DRAINAGE KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
G4	NDS DRAIN INLET	9 / DP-C8.0
G6	DETENTION POND OUTLET STRUCTURE	DP-C6.3
G8B	CONCRETE HEADWALL - WINGED	11 / DP-C8.0
G14	DOUBLE CURB INLET	8 / DP-C8.1
G15	CONCRETE FLUME	2 / DP-C8.1

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

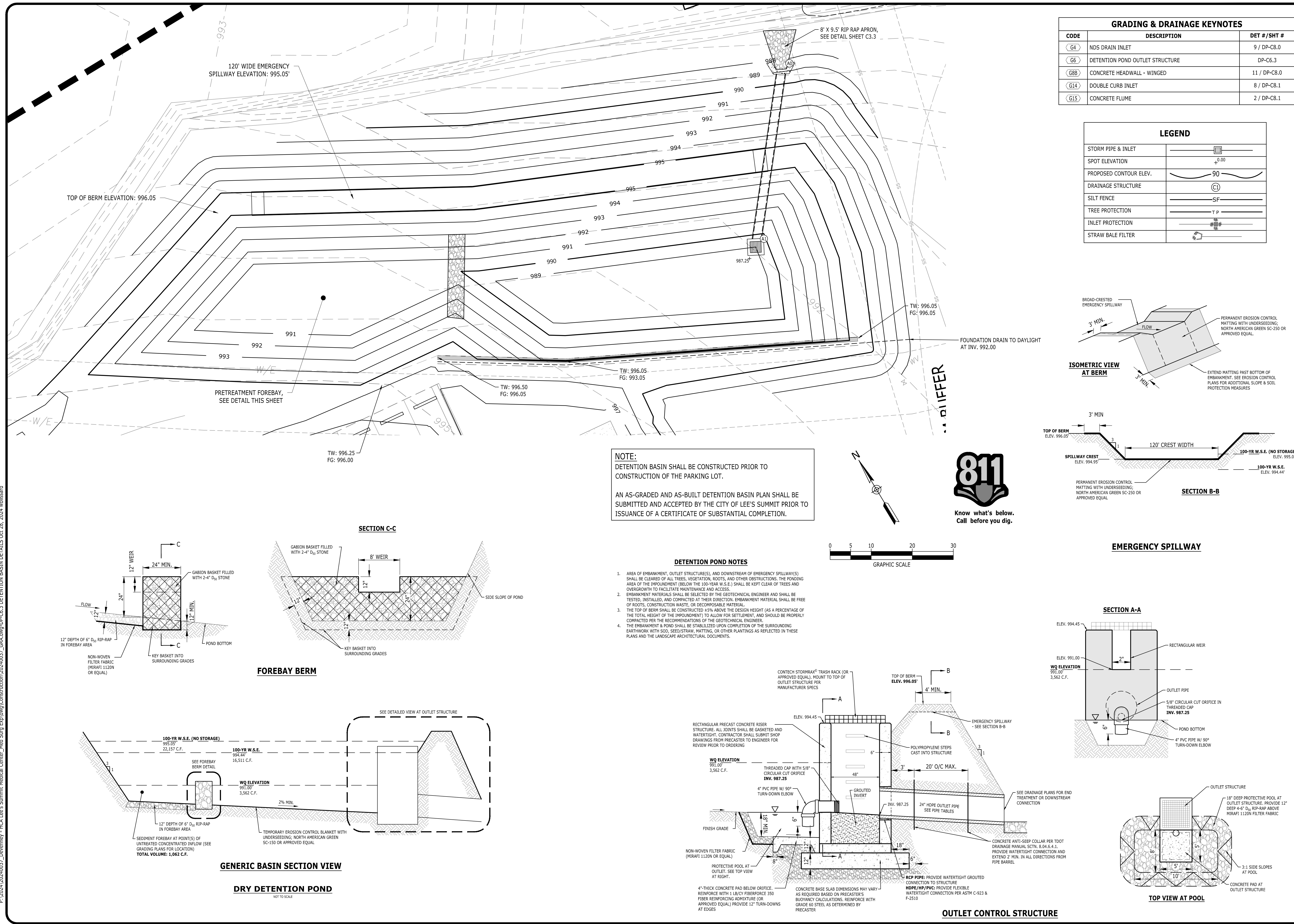


Know what's below.  
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P:\2024\20240037\_Devenney - HCA Lee's Summit Medical Center\_Med Surg Exp\dwg\Construction\20240037\_GRA\dwg-DP-C6.3 DETENTION BASIN DETAILS Oct 28, 2024 wblissard



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

DESCRIPTION  
NO.  
DATE

DRAWING TITLE  
DETENTION BASIN  
DETAILS

PROJECT NUMBER  
20240037

DRAWING NUMBER  
DP-C6.3

**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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JACK J. PARKER  
NUMBER  
PE-201640852  
02/28/2024

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AGENCY

REVISIONS  
REV # DESCRIPTION DATE

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JOB NUMBER: 6406.24

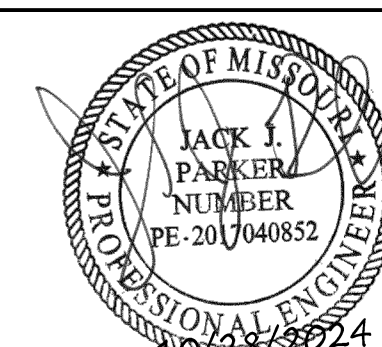
DETENTION BASIN  
DETAILS

DP-C6.3

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MISSOURI DHSS

FACILITY NUMBER  
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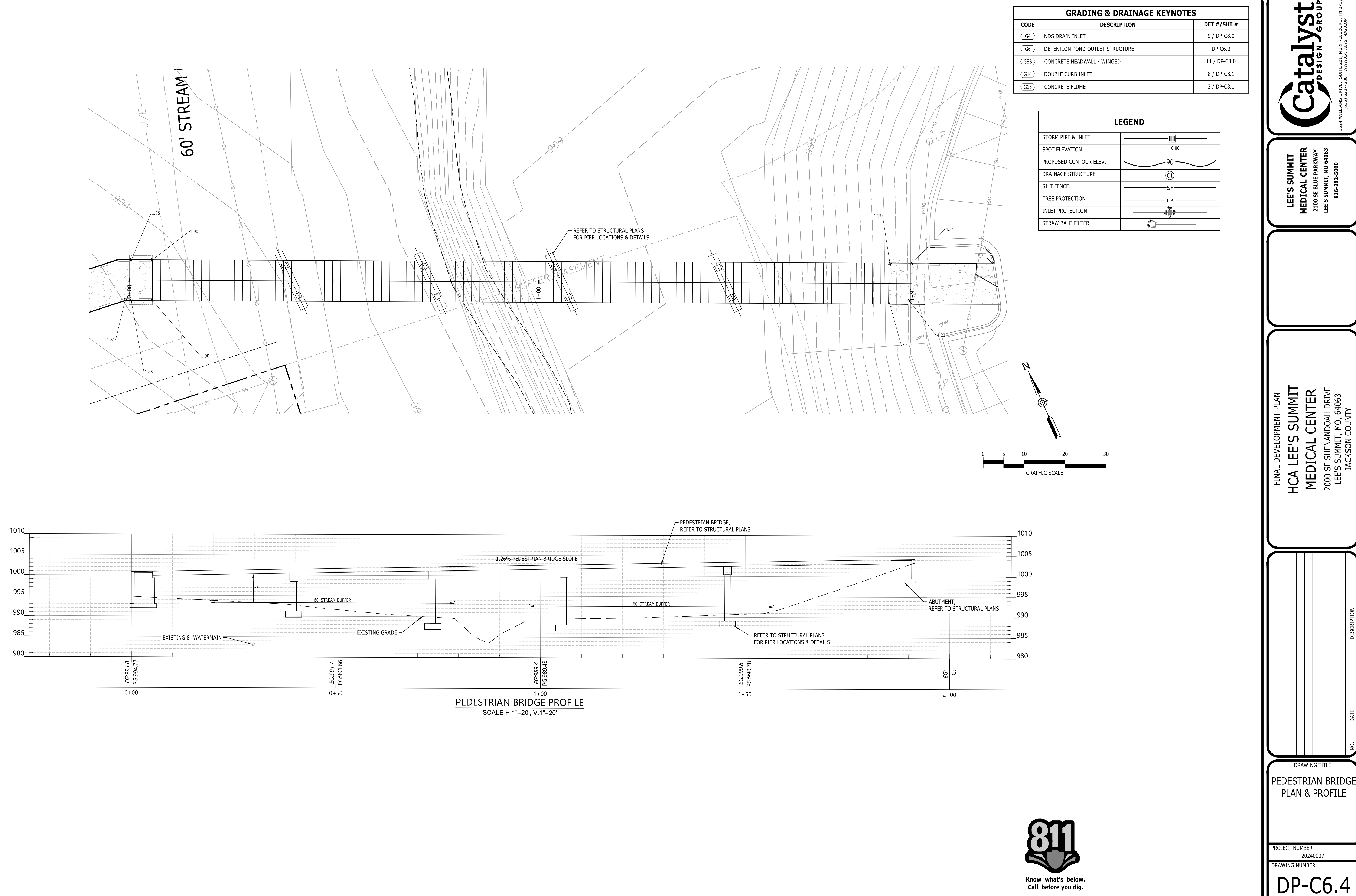
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AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

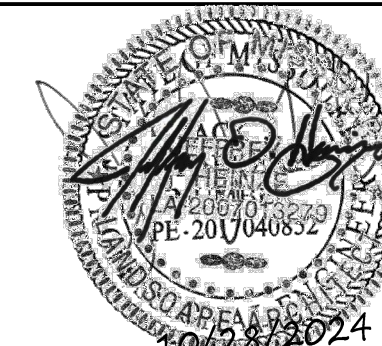
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REVIEWED:	WB
JOB NUMBER:	6406.24

PEDESTRIAN BRIDGE  
PLAN & PROFILE

DP-C6.4







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OVERALL UTILITY  
PLAN

DP-C7.0



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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

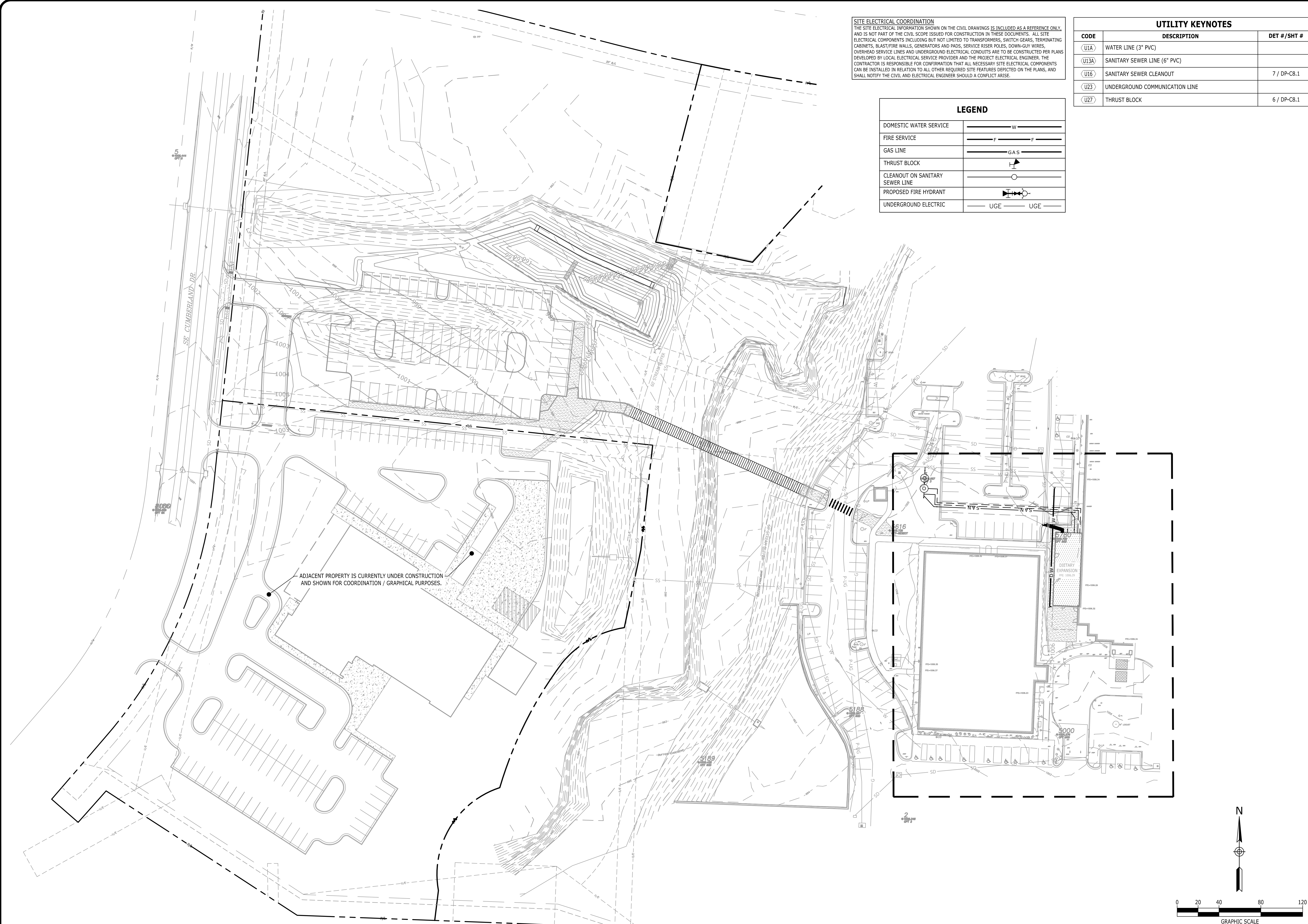
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DRAWING TITLE  
OVERALL UTIL  
PLAN

PROJECT NUMBER  
20240037








DRAWING NUMBER

DP-C7.0



**SITE ELECTRICAL COORDINATION**

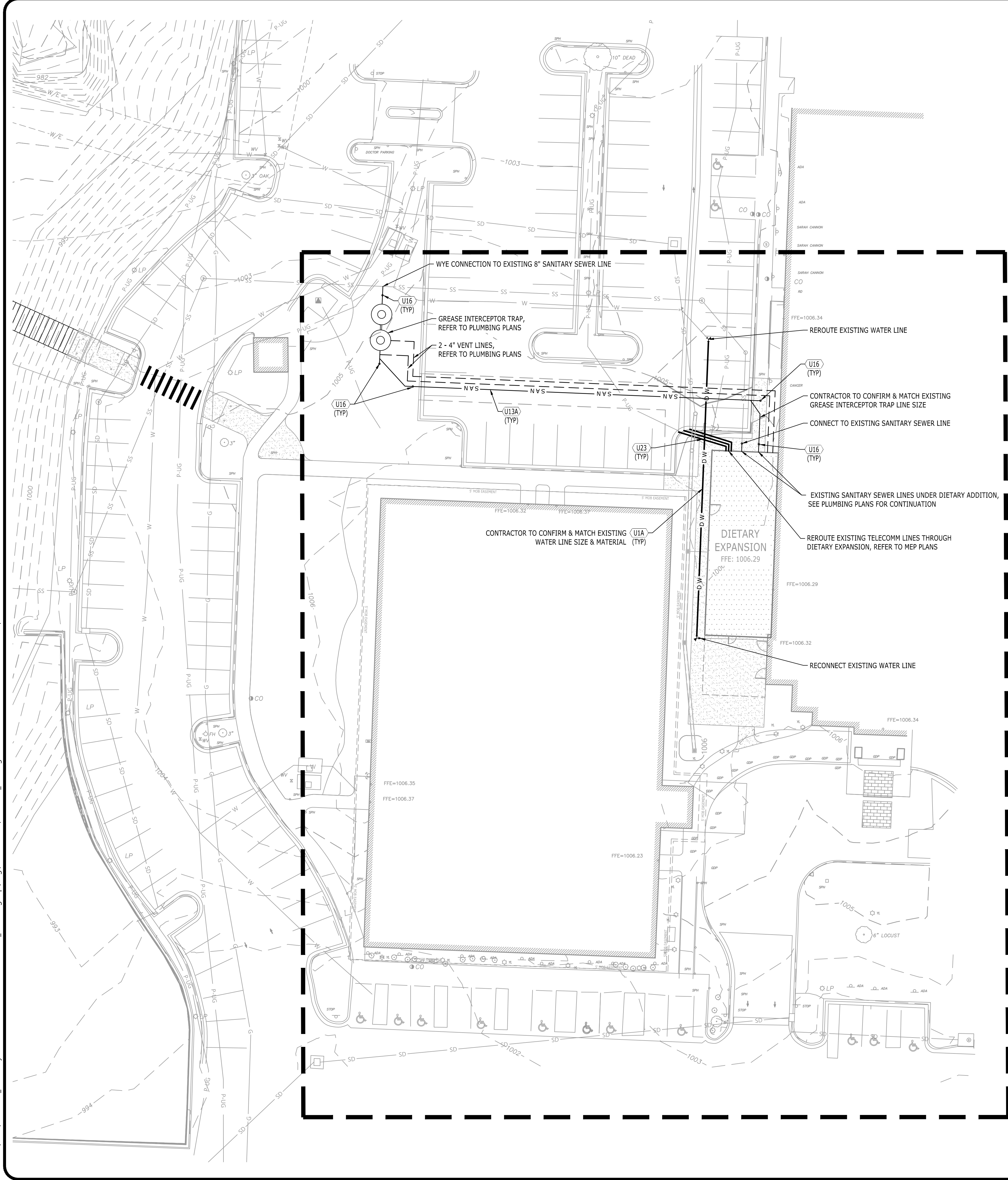
THE SITE ELECTRICAL INFORMATION SHOWN ON THE CIVIL DRAWINGS IS INCLUDED AS A REFERENCE ONLY, AND IS NOT PART OF THE CIVIL SCOPE ISSUED FOR CONSTRUCTION IN THESE DOCUMENTS. ALL SITE ELECTRICAL COMPONENTS INCLUDING BUT NOT LIMITED TO TRANSFORMERS, SWITCH GEARS, TERMINATING CABINETS, BLAST-FIT WALLS, CONDUITS AND PADS, SERVICE RISER POLES, DOWN-GUY WIRES, OVERHEAD SERVICE LINES AND UNDERGROUND ELECTRICAL CONDUITS ARE TO BE CONSTRUCTED PER PLAN 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	
CLEANOUT ON SANITARY SEWER LINE	
PROPOSED FIRE HYDRANT	
UNDERGROUND ELECTRIC	 UGE

UTILITY KEYNOTES		
CODE	DESCRIPTION	DET # /SHT #
U1A	WATER LINE (3" PVC)	
U13A	SANITARY SEWER LINE (6" PVC)	
U16	SANITARY SEWER CLEANOUT	7 / DP-C8.1
U23	UNDERGROUND COMMUNICATION LINE	
U27	THRUST BLOCK	6 / DP-C8.1

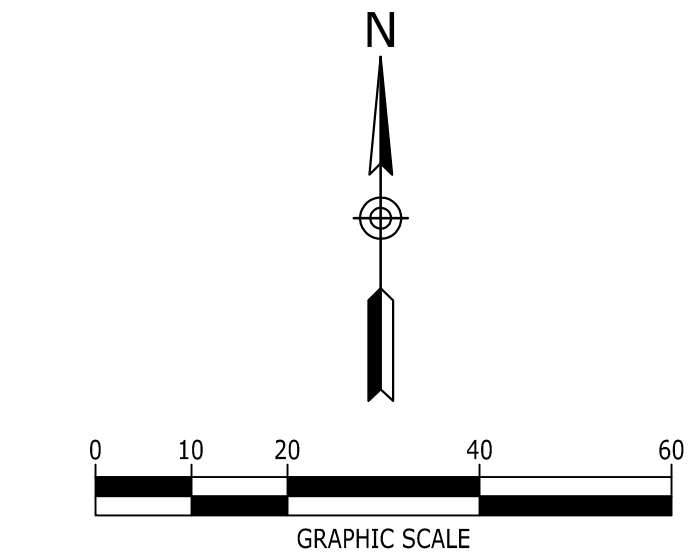


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**SITE ELECTRICAL COORDINATION**  
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LEGEND	
DOMESTIC WATER SERVICE	— W —
FIRE SERVICE	— F —
GAS LINE	— GAS —
THRUST BLOCK	— T —
CLEANOUT ON SANITARY SEWER LINE	— C —
PROPOSED FIRE HYDRANT	— F —
UNDERGROUND ELECTRIC	— UGE —



UTILITY KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
U1A	WATER LINE (3" PVC)	
U13A	SANITARY SEWER LINE (6" PVC)	
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JACKSON COUNTY

NO.		DATE	DESCRIPTION

DRAWING TITLE  
**DETAILED UTILITY  
PLAN**

PROJECT NUMBER  
20240037

DRAWING NUMBER  
**DP-C7.1**

**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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MISSOURI DHSS**

FACILITY NUMBER:  
**0972400009**

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

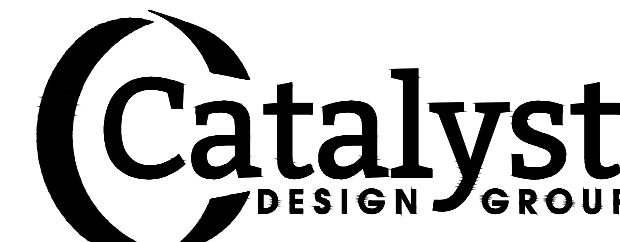
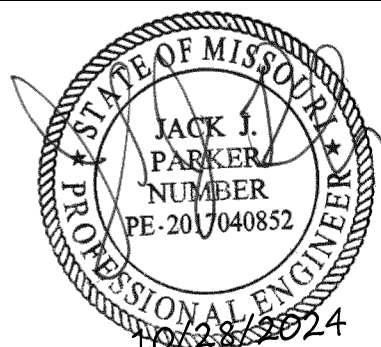
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REVIEWED: WB  
JOB NUMBER: 6406.24

**DETAILED UTILITY  
PLAN**

**DP-C7.1**



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SITE & BRIDGE  
EARLY RELEASE  
PACKAGEHCA - LEE'S SUMMIT  
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LEE'S SUMMIT, MO 64063AUTHORITY HAVING JURISDICTION:  
CITY OF LEE'S SUMMIT BUILDING DEPT.  
MISSOURI DHSSFACILITY NUMBER:  
0972400009AGENCY APPROVALS:  
AGENCY

REVISIONS

REV # DESCRIPTION DATE

DATE: 2024/09/19  
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JOB NUMBER:

SITE DETAILS

DP-C8.0

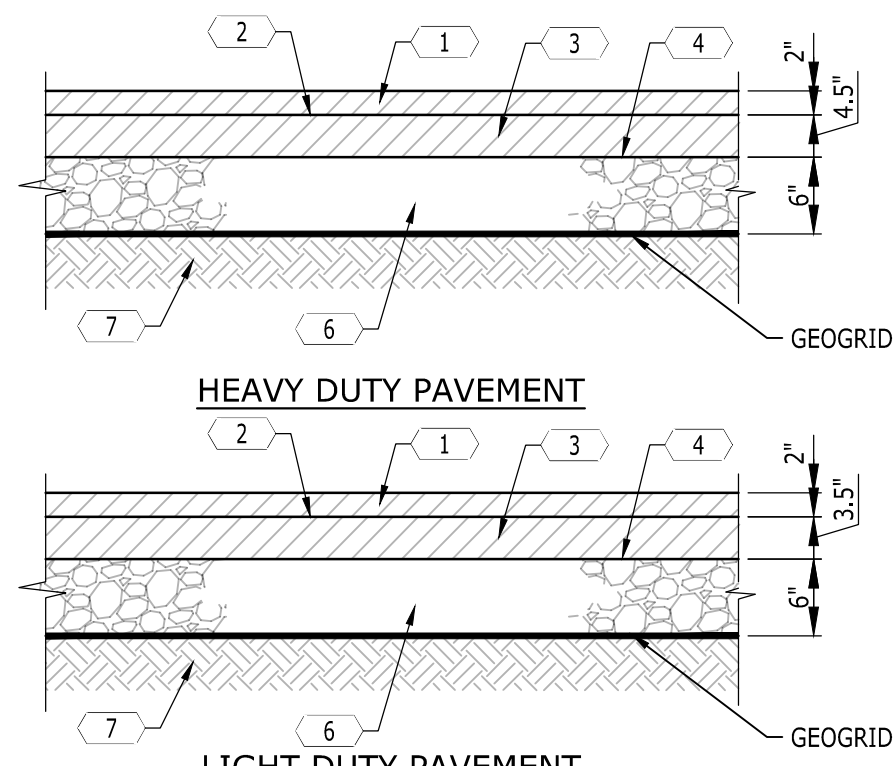
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DESIGN GROUP1524 WILLIAMS DRIVE, SUITE 201, MURFREESBORO, TN 37129  
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MEDICAL CENTER  
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LEE'S SUMMIT, MO 64063  
JACKSON COUNTYDRAWING TITLE  
SITE DETAILSPROJECT NUMBER  
20240037

DRAWING NUMBER

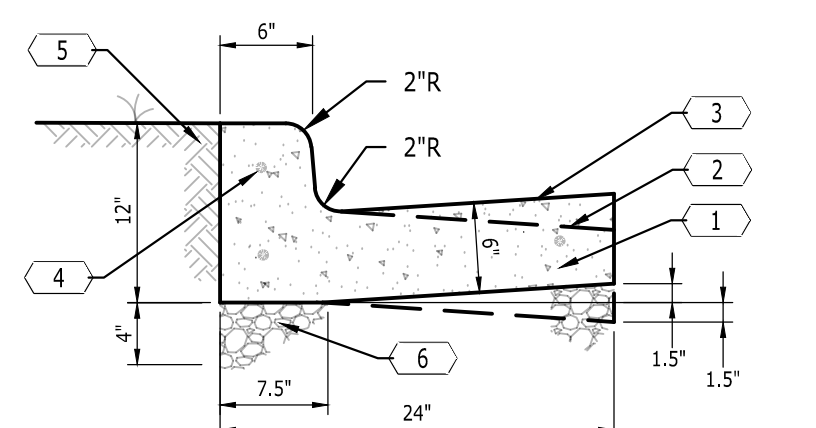
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KEYNOTES	
CODE	DESCRIPTION
1	ASPHALTIC SURFACE COURSE
2	TACK COAT AT 0.10 GAL./S.Y.
3	ASPHALTIC BASE COURSE
4	PRIME COAT AT 0.30 GAL./S.Y.
5	ASPHALTIC SURFACE COURSE
6	COMPACTED MINERAL AGGREGATE BASE
7	COMPACTED SUBGRADE

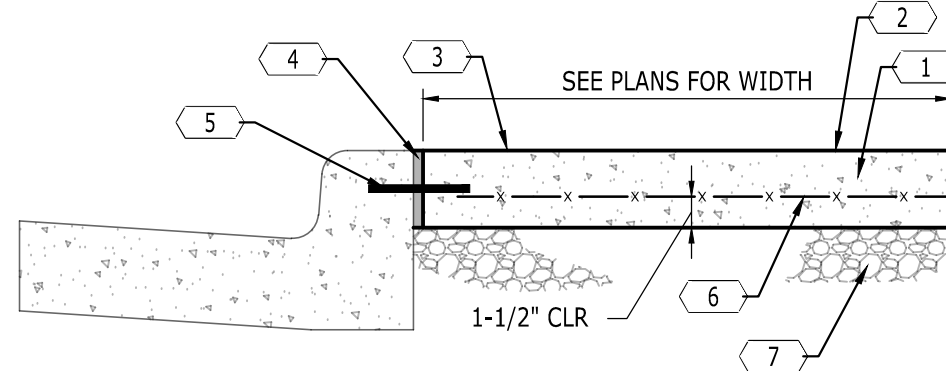
NOTE:  
1. ON ALL EXISTING PAVEMENT REPAIR OR REPLACEMENT, USE THE PAVEMENT SECTIONS SHOWN OR MATCH THE EXISTING SECTION, WHICHEVER IS GREATER.  
2. PAVEMENT DEPTHS TO MATCH AND COMPLY WITH THE CITY OF LEE'S SUMMIT UNIFIED DEVELOPMENT CODE STANDARDS.

HEAVY DUTY PAVEMENT  
LIGHT DUTY PAVEMENT  
ASPHALT PAVEMENT  
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE; 3500 PSI
2	SPILL CURB
3	CATCH CURB; TRANSITION FROM CATCH TO SPILL CURB OVER 10' LENGTH (TYP.)
4	CONCRETE REINFORCEMENT; NO. 4 BAR, CONTINUOUS (3 TYP.)
5	BACKFILL BEHIND CURB
6	4" MINERAL AGGREGATE BASE

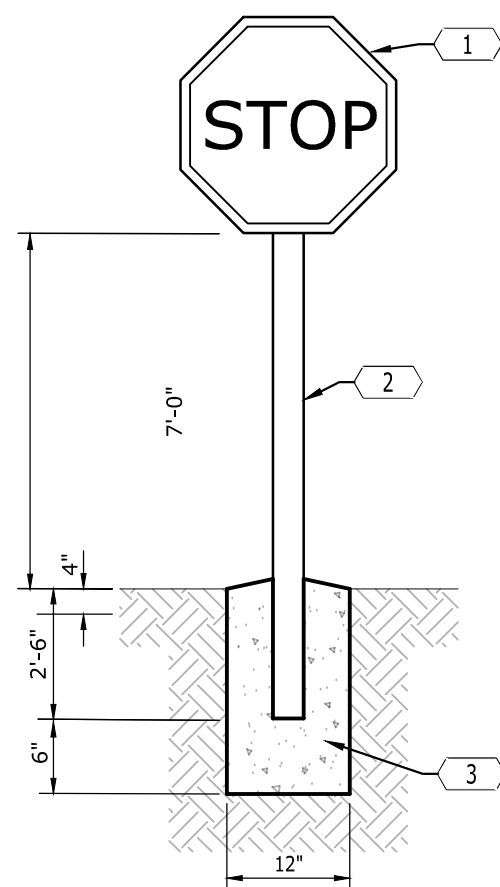
CONCRETE CURB AND GUTTER  
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE SIDEWALK; 4" THICK; 3500 PSI CONCRETE; SLOPE 2% MAX., 1% MIN.; 8" CONCRETE THICKNESS WHERE HS-20-44 LOADING IS REQUIRED (SEE PLANS)
2	BROOM FINISH
3	CONTROL JOINTS 5' O.C.; EXPANSION JOINTS 25' O.C. AND WHERE SIDEWALKS ABUT RIGID MATERIALS
4	1/2" EXPANSION JOINT
5	NO. 4 DOWELS; 12" O.C.; GREASE ONE END
6	CONCRETE REINFORCEMENT; 6"x6"xW2.9xW2.9 W.W.F.; GRADE 60 STEEL
7	4" MINERAL AGGREGATE OR SAND BASE; USE 6" AGGREGATE WHERE HS-20-44 LOADING IS REQUIRED (SEE PLANS)

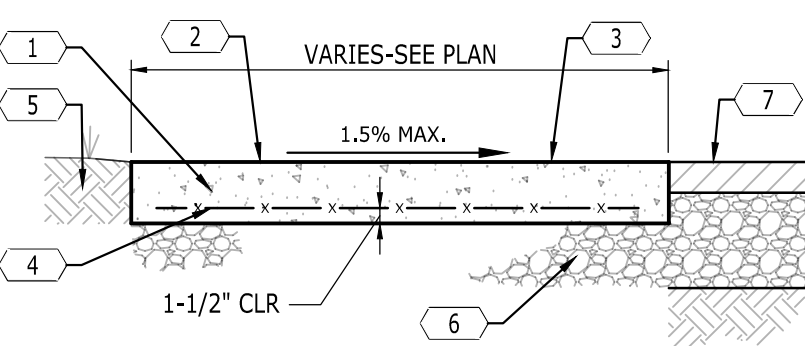
CONCRETE SIDEWALK  
AT CURB AND GUTTER  
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	R1-1 STOP SIGN (24" X 24")
2	2" SQUARE GALVANIZED STEEL TUBE, PROVIDE WELDED CAP AT TOP AND GRIND WELDS SMOOTH.
3	CONCRETE FOOTING

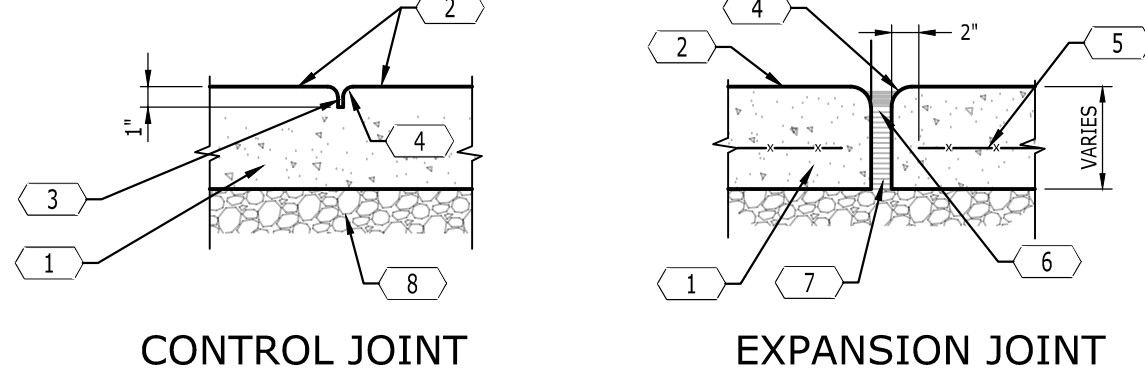
NOTE:  
SIGN SHALL BE LOCATED 3' FROM THE EDGE OF THE PAVEMENT UNLESS SUCH PLACEMENT WOULD OBSTRUCT THE SIDEWALK.

STOP SIGN  
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE SIDEWALK; 4" THICK; 3500 PSI CONCRETE; CROSS SLOPE 2% MAX., 1% MIN.
2	BROOM FINISH
3	CONTROL JOINTS 5' O.C.; EXPANSION JOINTS 25' O.C. AND WHERE SIDEWALKS ABUT RIGID MATERIALS.
4	CONCRETE REINFORCEMENT; 6"x6"xW2.9xW2.9 W.W.F.; GRADE 60 STEEL
5	TOPSOIL; PLACE WITHIN 1/4" OF WALKWAY SURFACE
6	4" MINERAL AGGREGATE BASE
7	ASPHALT PAVEMENT (REFER TO DETAIL)

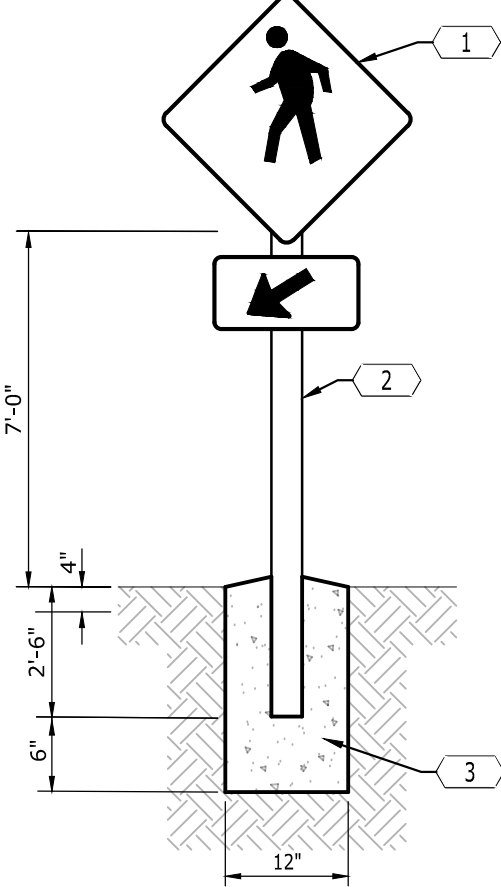
CONCRETE SIDEWALK  
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE SIDEWALK
2	BROOM FINISH
3	1/2" HAND-GROOVED JOINT
4	TOOLED EDGE; 1/2" RADIUS (TYP.)
5	CONCRETE REINFORCEMENT; 6"x6"xW2.9xW2.9 W.W.F.; GRADE 60 STEEL
6	POLYURETHANE SEALANT
7	1/2" PREMOLDED EXPANSION JOINT MATERIAL
8	MINERAL AGGREGATE BASE (TYP.)

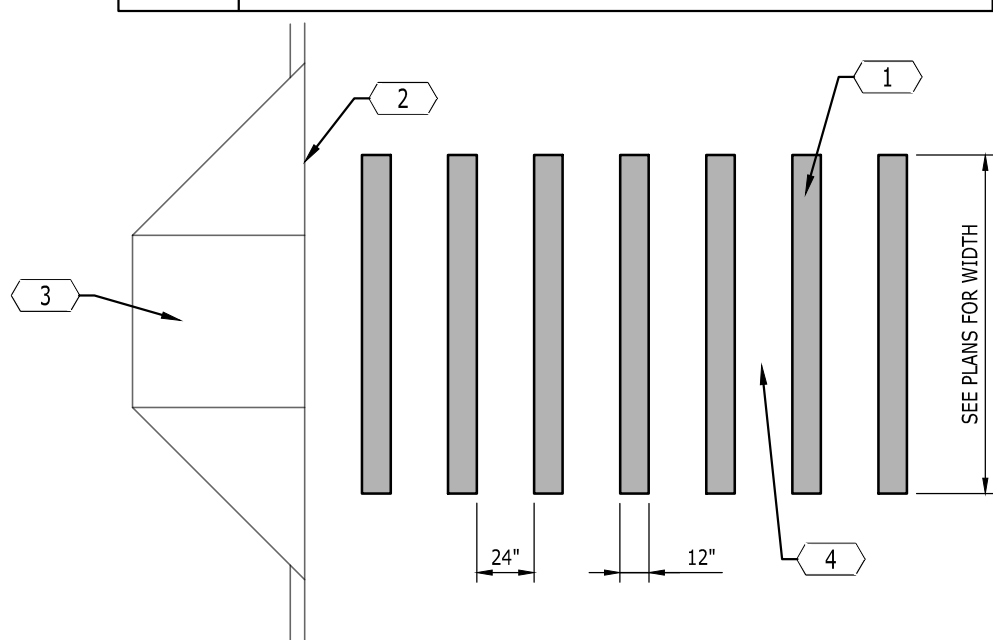
CONTROL JOINT  
EXPANSION JOINT  
SIDEWALK JOINTS  
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	PEDESTRIAN CROSSWALK SIGN (30" X 30")
2	2" SQUARE GALVANIZED STEEL TUBE, PROVIDE WELDED CAP AT TOP AND GRIND WELDS SMOOTH.
3	CONCRETE FOOTING

NOTE:  
SIGN SHALL BE LOCATED 3' FROM THE EDGE OF THE PAVEMENT UNLESS SUCH PLACEMENT WOULD OBSTRUCT THE SIDEWALK.

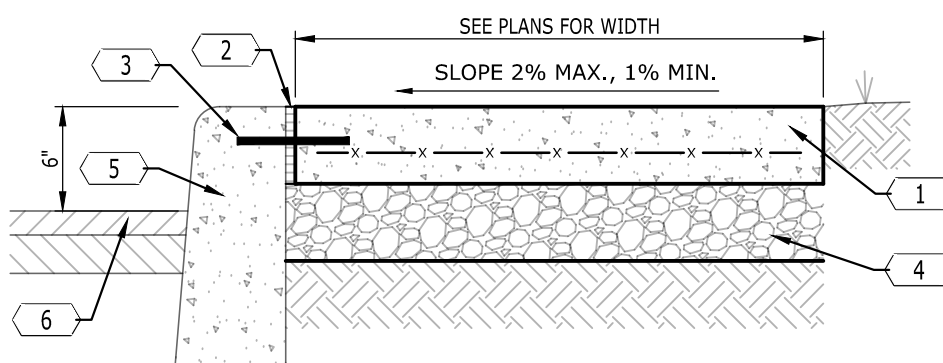


KEYNOTES	
CODE	DESCRIPTION
1	PEDESTRIAN CROSSWALK; MARKINGS SHALL BE SOLID WHITE PAINTED ON ASPHALT; PAINT 12" WIDE STRIPES AS INDICATED WITH PORTER "TRAFFIC WHITE" PAINT OR APPROVED EQUAL; CROSSWALK SHALL BE IN COMPLIANCE WITH ADAAG 403.3.
2	FACE OF CURB
3	ACCESSIBLE RAMP; SEE DETAIL
4	MAX. 2% CROSS SLOPE; MAX. 5% RUNNING SLOPE (TYP.)

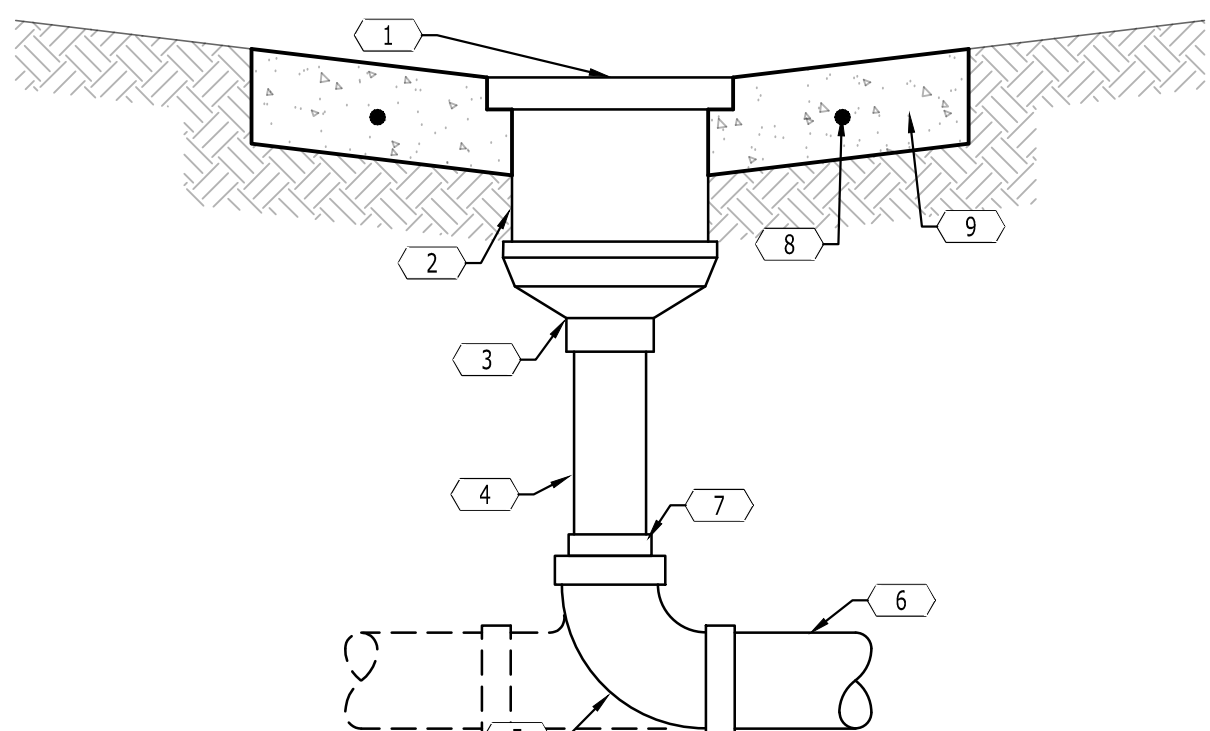
PEDESTRIAN CROSSWALK  
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	4" CONCRETE WALK REINFORCED WITH 6" x 6" x W2.9 x W2.9 W.W.F. USE 8" CONCRETE THICKNESS WHERE HS-20-44 LOADING IS REQUIRED (SEE PLANS).
2	1/2" EXPANSION JOINT
3	NO. 4 DOWELS 12" APART GREASE HALF OF DOWEL.
4	4" MINERAL AGGREGATE. USE 6" AGGREGATE BASE WHERE HS-20-44 LOADING IS REQUIRED (SEE PLANS).
5	POST CURB; REFER TO DETAIL
6	PAVEMENT; REFER TO DETAIL

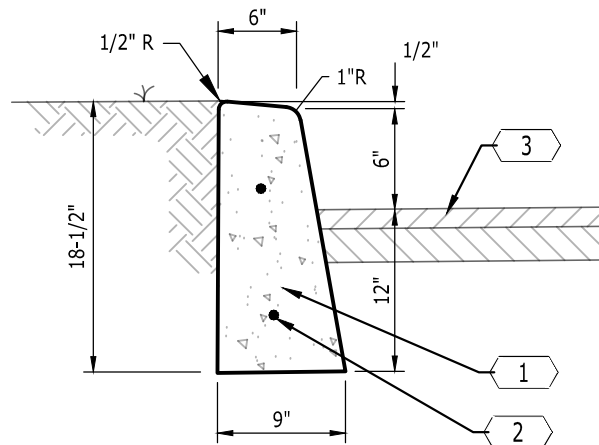
NOTES:  
1. USE 3500 PSI CONCRETE AND ASTM GRADE 60 STEEL.  
2. PROVIDE CONTROL JOINTS 5' APART AND EXPANSION JOINTS 25' APART AND WHERE SIDEWALK ABUTS RIGID MATERIAL.

SIDEWALK AT POST CURB  
NOT TO SCALE

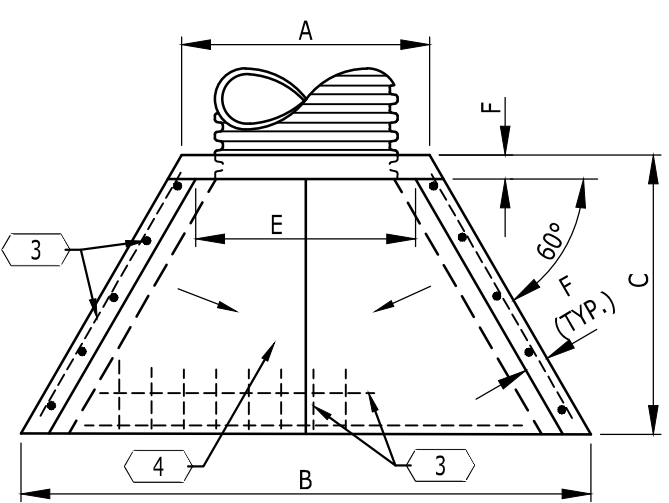
KEYNOTES	
CODE	DESCRIPTION
1	NDS 1211 GRATE
2	NDS 1216 RISER BOX
3	NDS 1230 HUB ADAPTOR
4	6" PVC, LENGTH AS REQ'D
5	8" PVC ELL OR TEE
6	8" PVC STORM PIPE
7	8" x 6" PVC REDUCER. MAY BE OMITTED IF REDUCING TEE IS USED.
8	NO. 4 BAR, CONT.
9	4" THICK CONCRETE COLLAR

12" NDS DRAIN INLET  
NOT TO SCALE

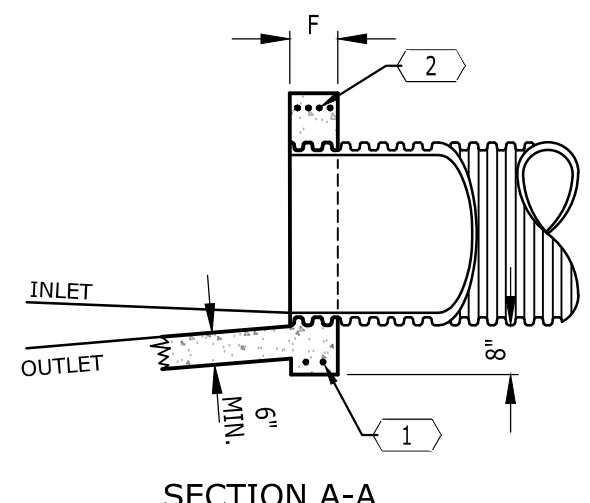
KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE; 3500 PSI
2	NO. 4 BAR, CONTINUOUS; (2 TYP.)
3	FINISHED PAVEMENT GRADE

CONCRETE POST CURB  
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE REINFORCEMENT; TWO, NO. 2 BARS
2	CONCRETE REINFORCEMENT; FOUR, NO. 4 BARS
3	CONCRETE REINFORCEMENT; NO. 4 BARS AT 12" O.C. EACH WAY IN FLOOR AND WALLS
4	SLOPE APRON TO DRAIN
NOTE: CHAMFER ON ALL EXPOSED EDGES	



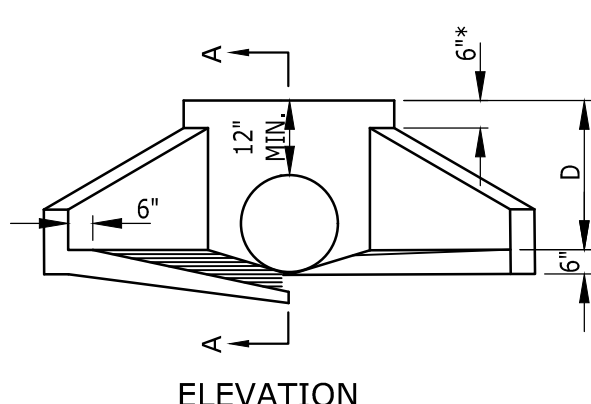
PLAN



SECTION A-A

TABLE OF DIMENSIONS	
SIZE	4' 6' 8' 10'
A	32" 48" 72" 96"
B	48" 72" 96" 120"
C	30" 44" 50" 56"
D	25" 36" 52" 66"
E	24" 36" 59" 83"
F	N/A 8" 8" 8"
MAX. OPG.	18" 26" 40" 40"
WT. (LB.)	1090 3130 5625 8575

\* 0" ON 4" WINGED HEADWALL

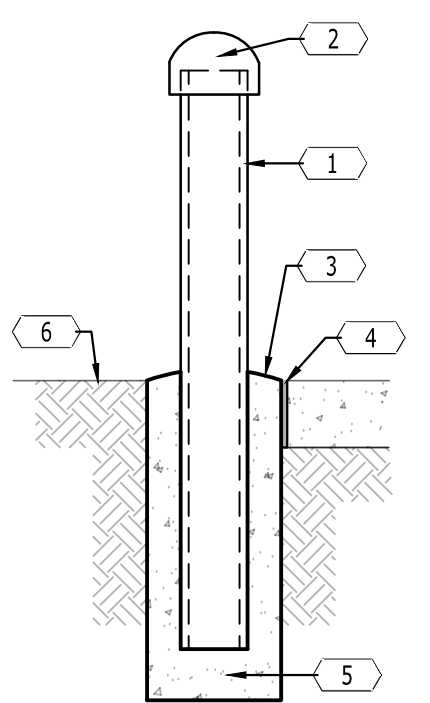


ELEVATION

WINGED HEADWALL  
NOT TO SCALE

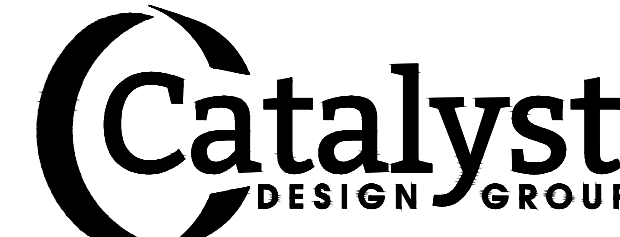
KEYNOTES	
CODE	DESCRIPTION
1	PREFABRICATED CAP
2	6" x 6" x 6" STEEL PIPE BOLLARD FILLED WITH CONCRETE. PRIME WITH SUITABLE PRIMER AND PAINT IN A COLOR TO BE SELECTED BY THE ARCHITECT.
3	1" CROWN
4	1/2" EXPANSION JOINT MATERIAL, AASHTO M-33, WHERE PLACED IN A RIGID PAVEMENT AREA.
5	3500 PSI CONCRETE
6	F.G.

NOTE:  
THE PRIMER AND FIRST COAT OF PAINT SHALL BE APPLIED BEFORE INSTALLATION. A SECOND COAT OF PAINT SHALL BE APPLIED AFTER INSTALLATION.

STEEL BOLLARD WITH CAP  
NOT TO SCALE



Consultant:



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



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PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SEC. 102 OF THE COPYRIGHT  
ACT, 17 U.S.C. 101-102, AS AMENDED (DECEMBER 1990) AND KNOWN AS "ARCHITECTURAL  
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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 DHS

FACILITY NUMBER:  
097240009

AGENCY APPROVALS:  
AGENCY

REVISIONS

REV #	DESCRIPTION	DATE
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DRAWING TITLE

SITE DETAILS

PROJECT NUMBER

20240037

DRAWING NUMBER

DP-C8.1

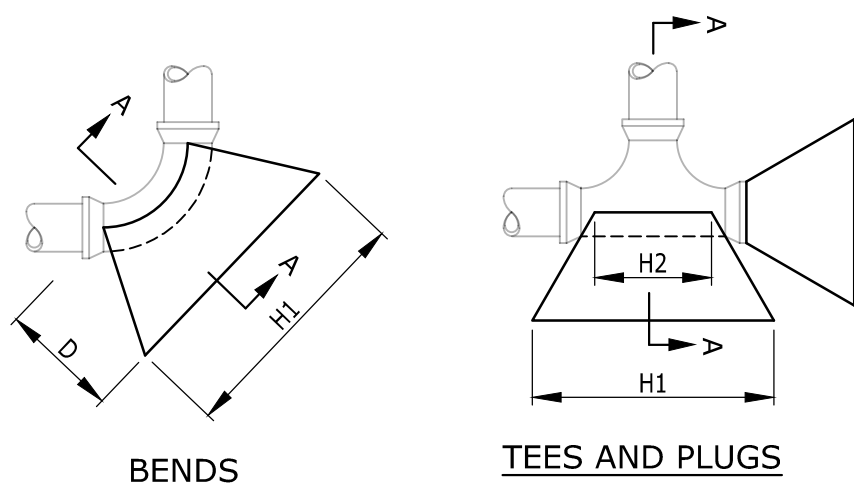
DATE: 2024/09/19  
SCALE: AP  
DRAWN: WB  
REVIEWED: 6406.24  
JOB NUMBER:

SITE DETAILS

DP-C8.1

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"	

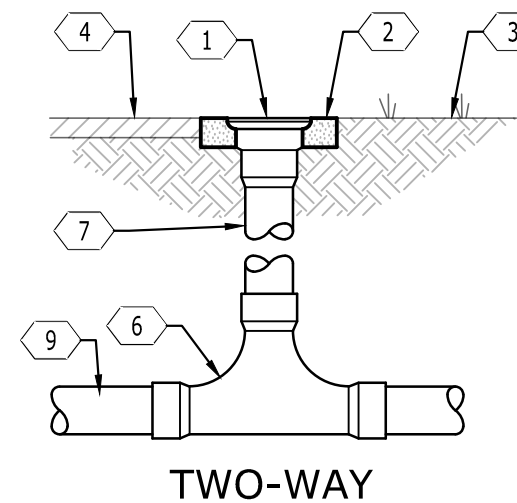
22 1/2° BEND					
PIPE SIZE	H1	H2	D	V	
4"	12"	8"	12"	12"	
6"	18"	10"	18"	18"	
8"	27"	11"	18"	20"	

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"	

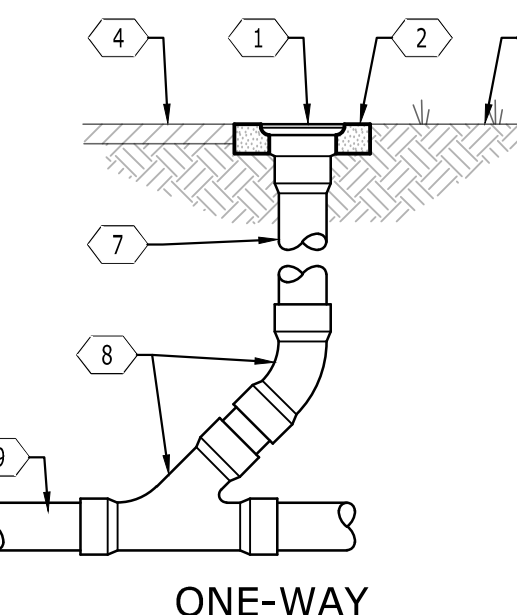
TEES AND PLUGS					
PIPE SIZE	H1	H2	D	V	
4"	24"	12"	12"	16"	
6"	30"	16"	18"	24"	
8"	40"	18"	18"	30"	

## THRUST BLOCKING

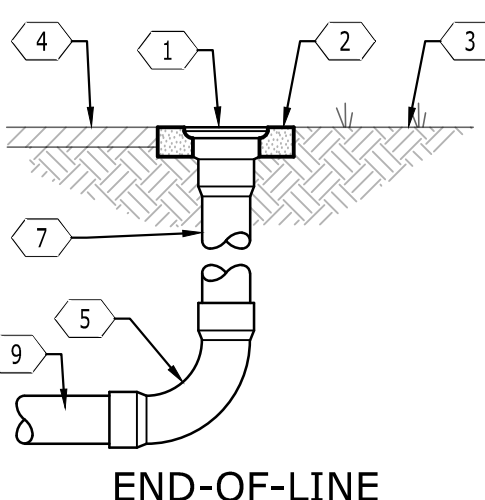
NOT TO SCALE



TWO-WAY



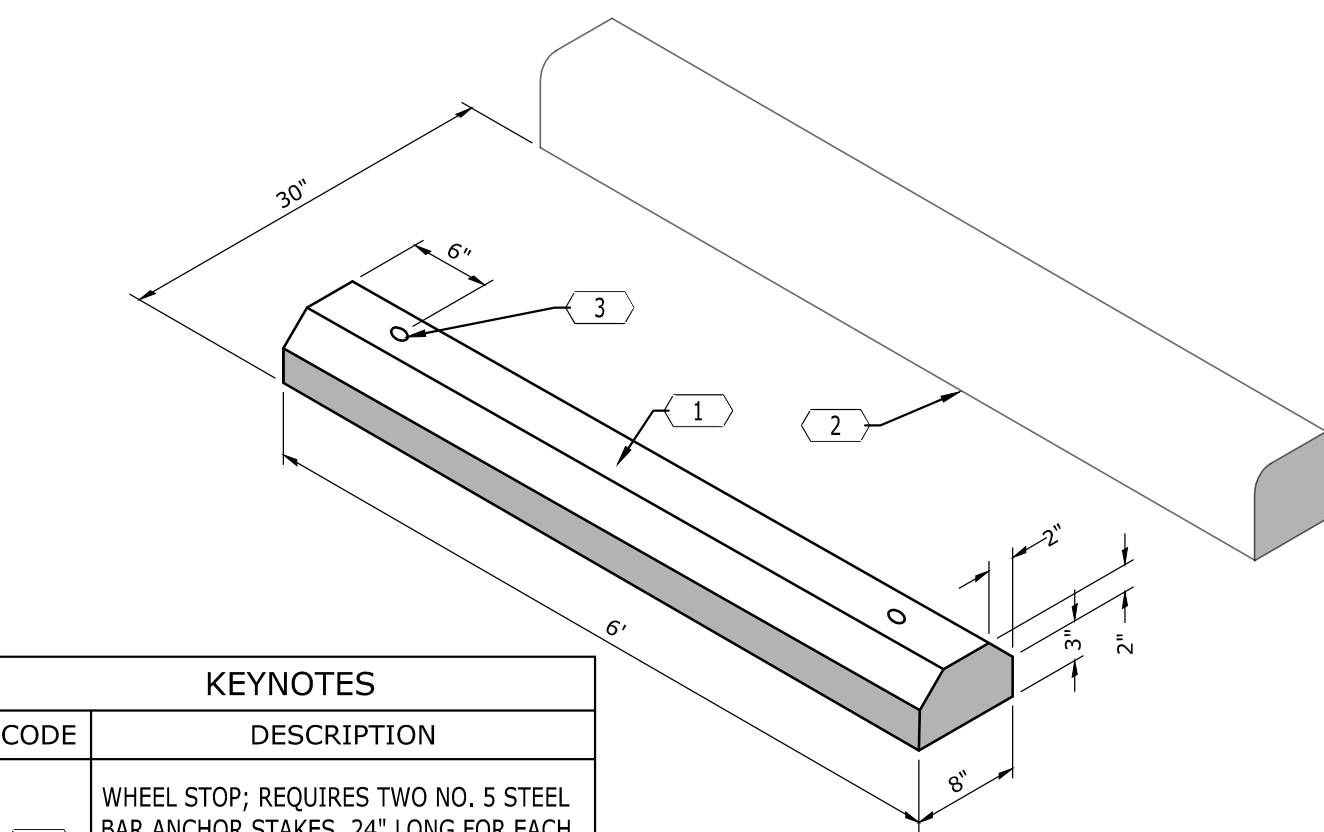
ONE-WAY



END-OF-LINE

## 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.)

## PRECAST CONCRETE WHEEL STOP

NOT TO SCALE

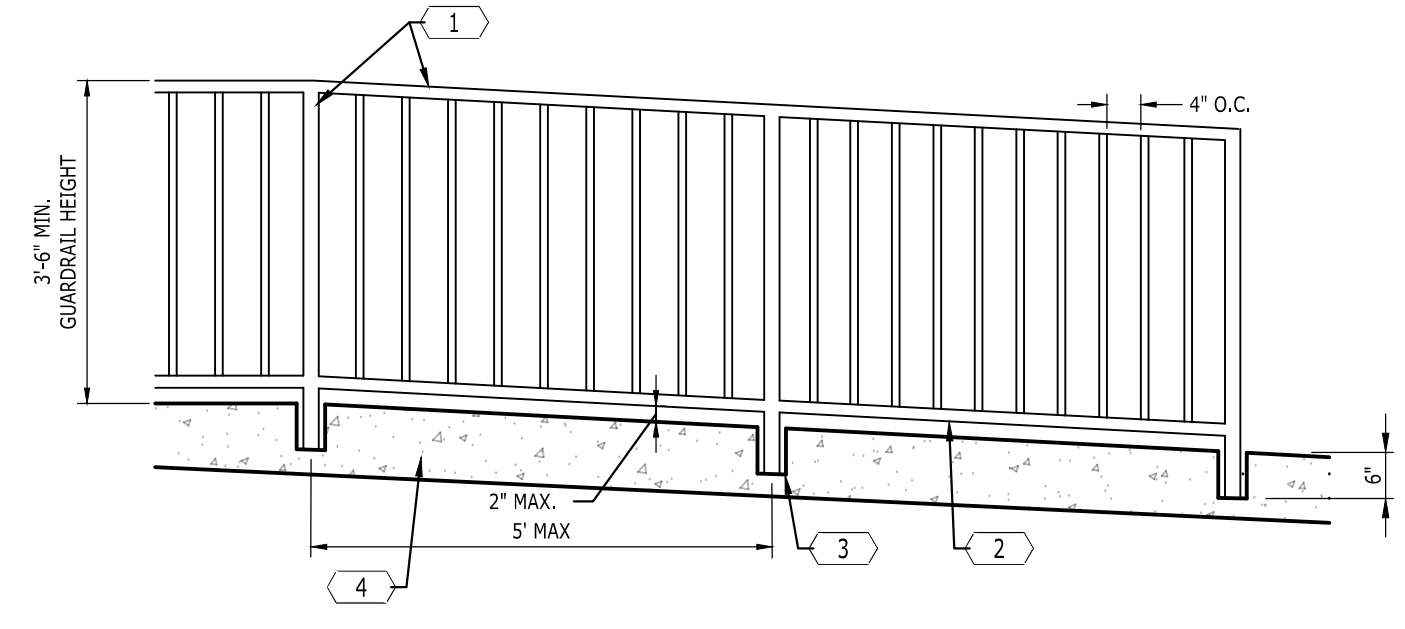
5

## RESERVED

NOT TO SCALE

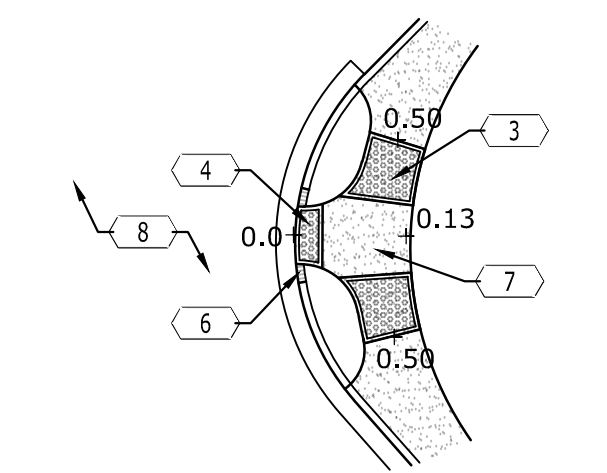
KEYNOTES	
CODE	DESCRIPTION
1	1-1/2" O.D. TUBULAR POST AND RAIL
2	1-1/2" O.D. TUBULAR BOTTOM RAIL
3	MIN. 2-1/2" I.D. TUBE STEEL SLEEVE CAST IN PLACE. GROUT GUARDRAIL POST IN PLACE (TYP.).
4	CONCRETE SURFACE

- NOTES:
- 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.
  - VARIATIONS IN GUARDRAIL HEIGHT SHALL NOT BE ALLOWED.
  - THE MAXIMUM CLEARANCE BETWEEN THE BOTTOM RAIL AND THE CONCRETE SURFACE OR CHEEK WALL TOP SHALL BE 2".

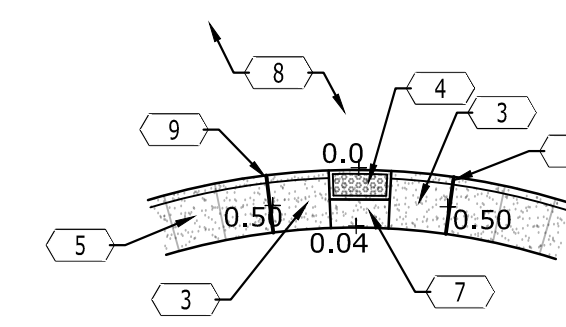


## GUARDRAIL

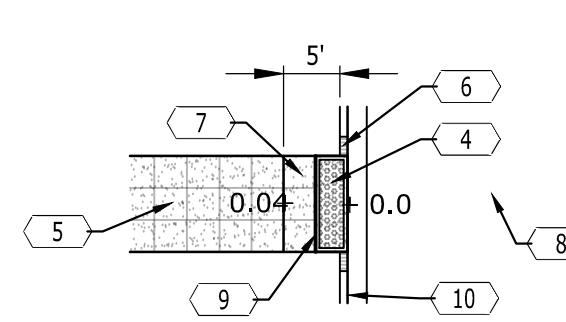
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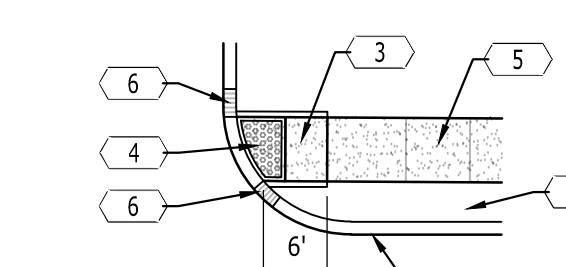
ACCESSIBLE CURB RAMP "A"



ACCESSIBLE CURB RAMP "B"



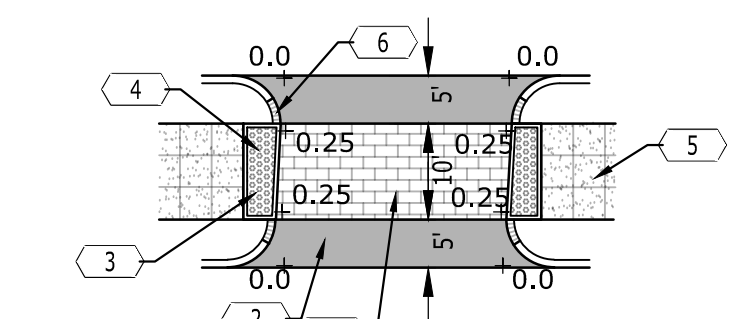
ACCESSIBLE CURB RAMP "C"



ACCESSIBLE CURB RAMP "D"

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

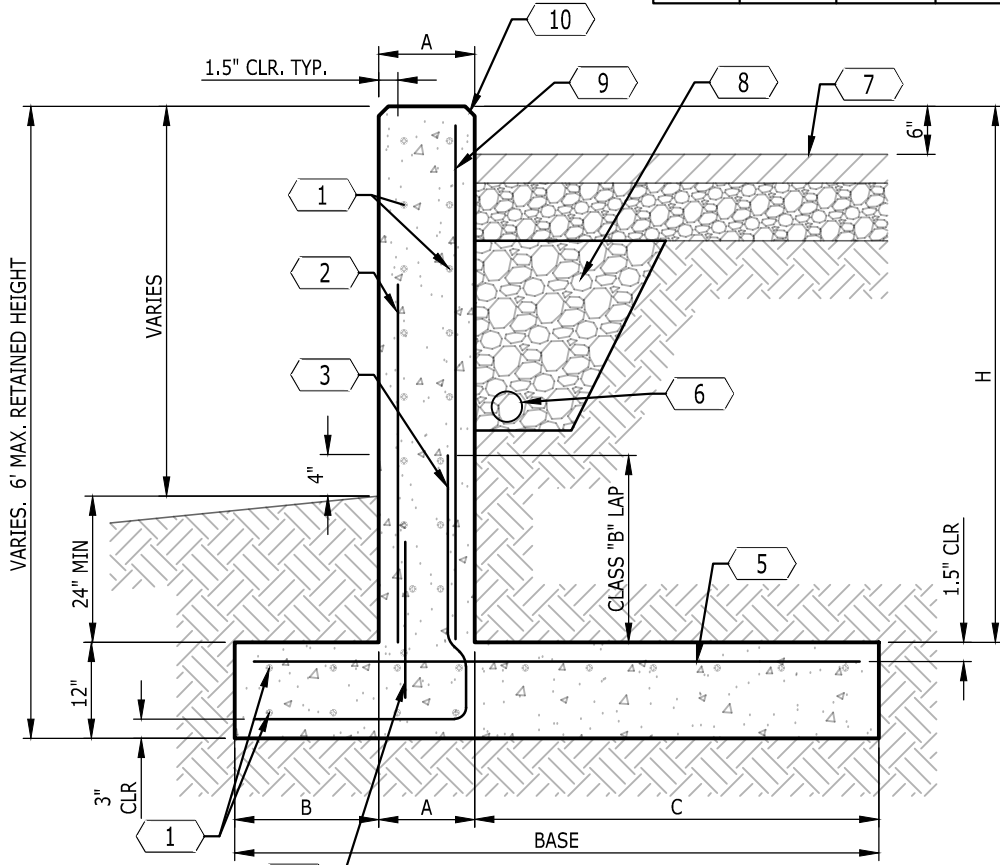


CURB RAMP AT RAISED PEDESTRIAN CROSSWALK

## ACCESSIBLE CURB RAMPS

NOT TO SCALE

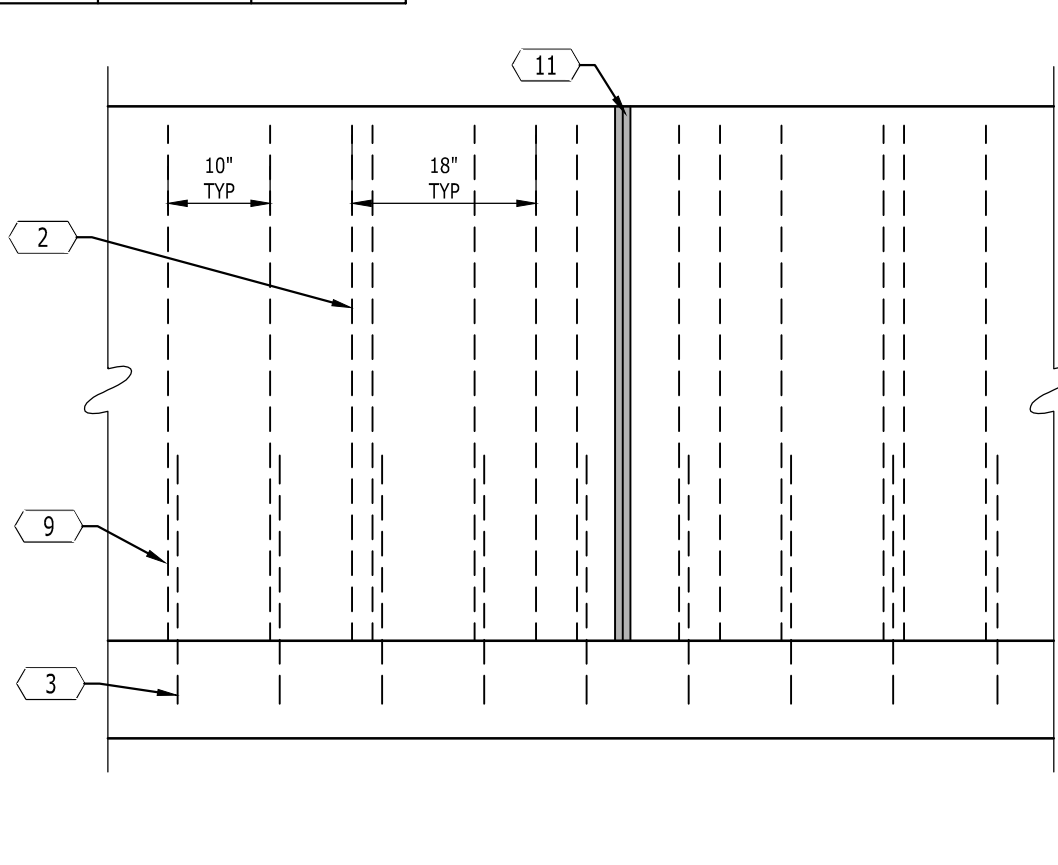
1



SECTION

## CONCRETE RETAINING WALL

NOT TO SCALE



ELEVATION

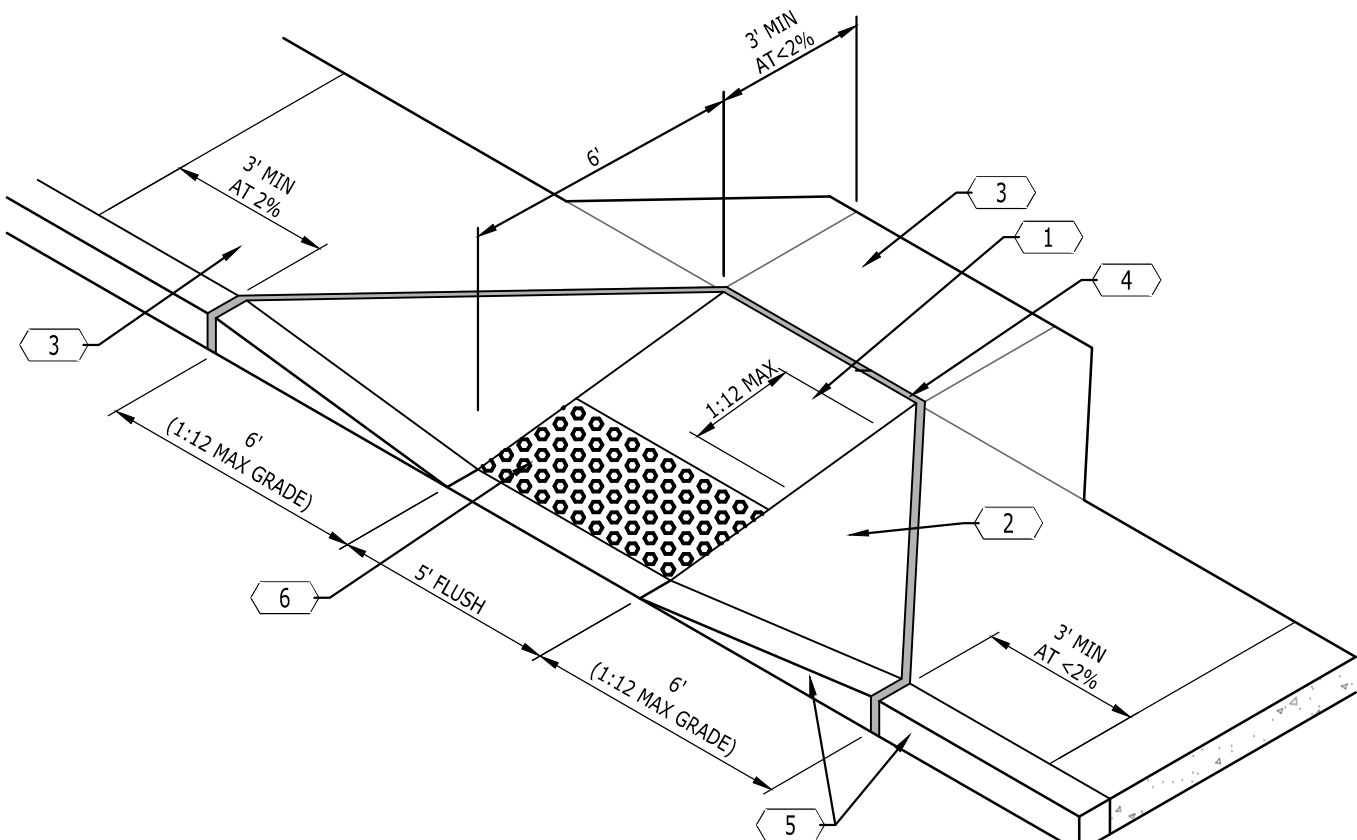
KEYNOTES	
CODE	DESCRIPTION
1	BAR "L"
2	BAR "V2"
3	BAR "D"
4	No. 4 BARS 18" LONG, 18" APART
5	BAR "I"
6	4" PERFORATED PVC FOUNDATION DRAIN.
7	PAVEMENT SURFACE
8	FREE-DRAINING STONE FILL
9	BAR "V1"
10	1" CHAMFER, TYP.
11	1" DEEP VEE CONTROL JOINT, SPACE 15' APART MAX. EACH FACE. CUT ALTERNATE HORIZONTAL BARS 2" BACK EACH SIDE OF JOINT, EACH FACE. FILL VEES WITH MASTIC BEFORE BACKFILLING.

NOTES:

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

RETAINING WALL SCHEDULE									
				BAR SIZE AND SPACING					
"H"	BASE	"B"	"A"	"C"	"V1"	"V2"	"D"	"L"	"I"
0'-6"	4'-9"	1'-3"	10"	2'-8"	No. 4 AT 10"	No. 4 AT 18"	No. 4 AT 10"	No. 4 AT 10"	No. 4 AT 10"

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

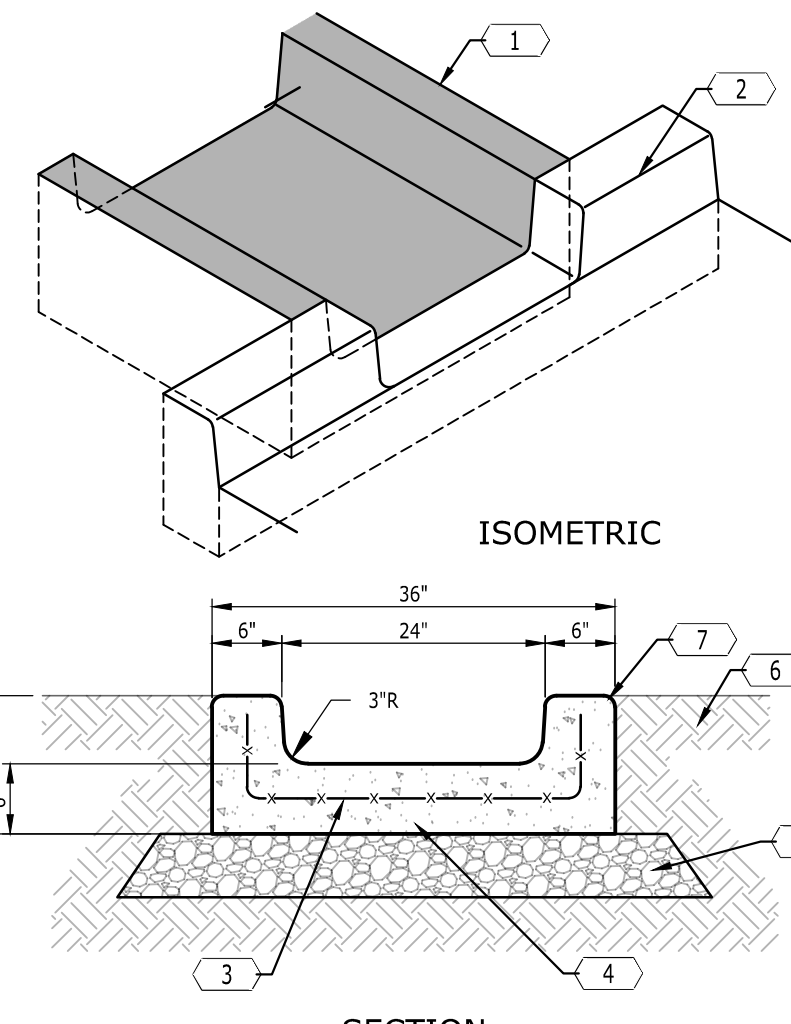


## ACCESSIBLE RAMP - FLARED

NOT TO SCALE

2

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



SECTION

## CONCRETE FLUME

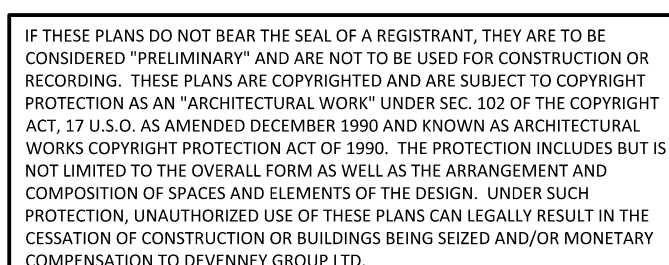
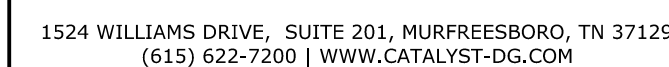
NOT TO SCALE







Consultant



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

DATE:	2024/09/1
SCALE:	1:4
DRAWN:	A
REVIEWED:	W
JOB NUMBER:	6406.2

OVERALL LANDSCAPE  
PLAN

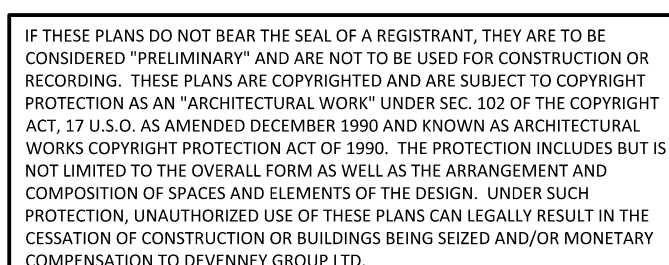
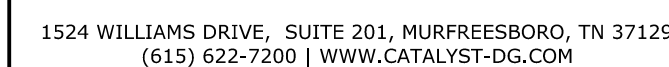
DP-L1.0



D:\2024\20240037\_Devenney - HCA Lee's Summit Medical Center\_Med Surg Exp(dwg)\Construction\20240037\_LAN.dwg-DP-L1.0 OVERALL LANDSCAPE PLAN Oct 28, 2024 wblissard



Consultant



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

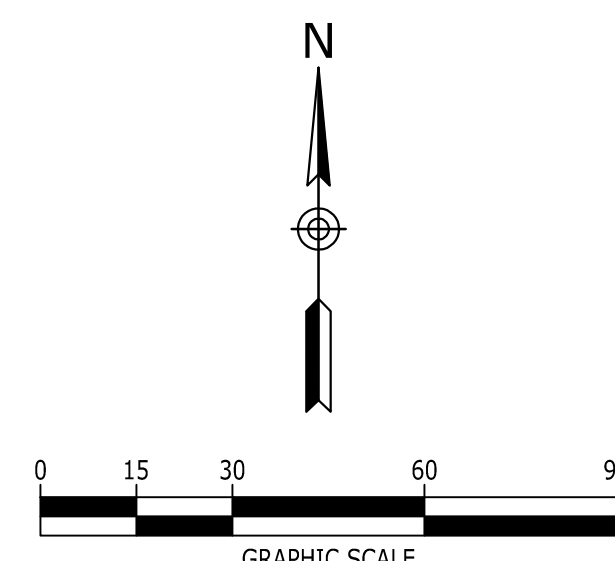
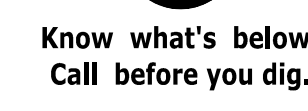
AGENCY APPROVALS:  
AGENCY

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

DP-L1.1

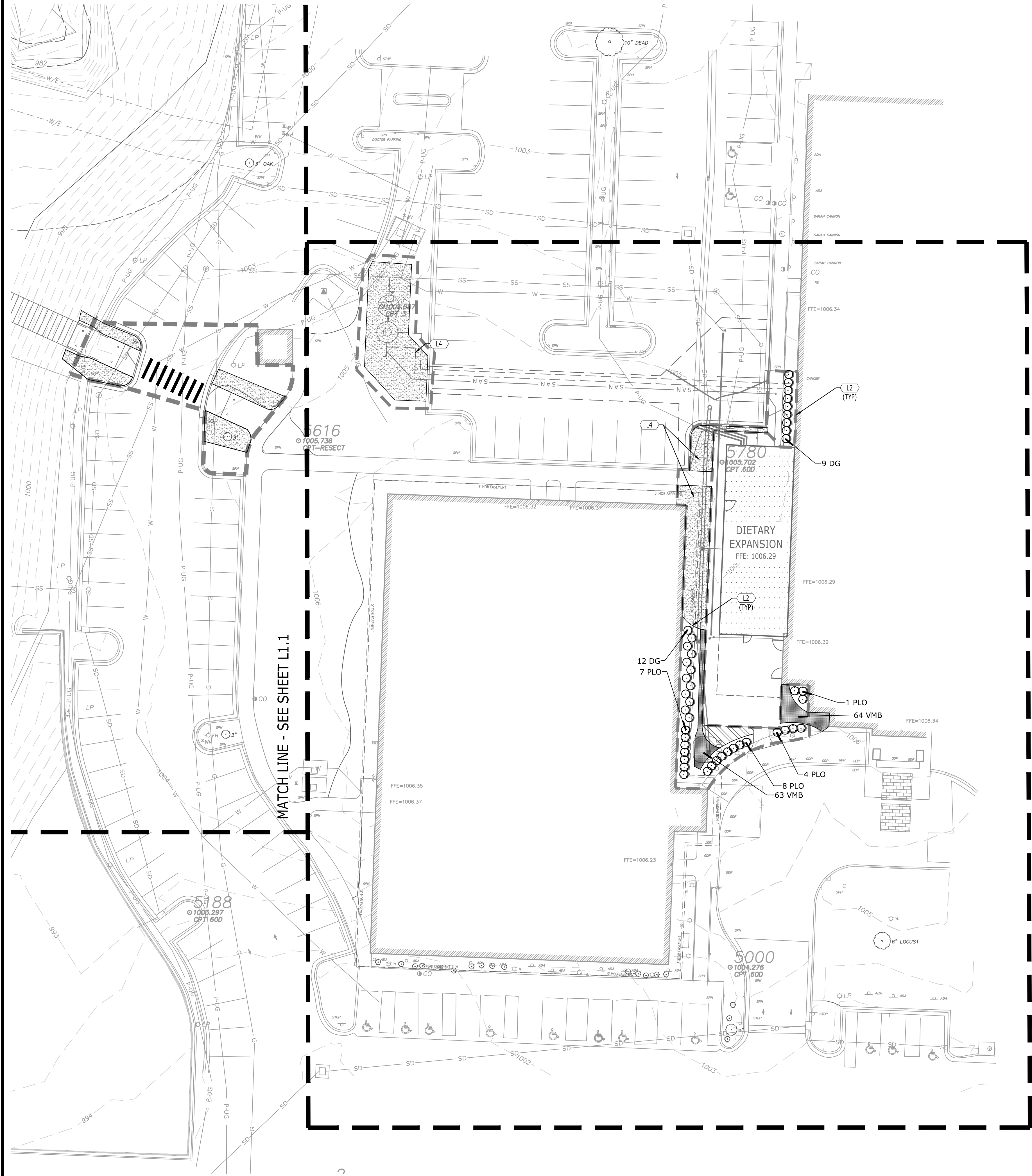


SEE L1.0 FOR PLANT SIZES AND QUANTITIES





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 38, 2024 mblissard



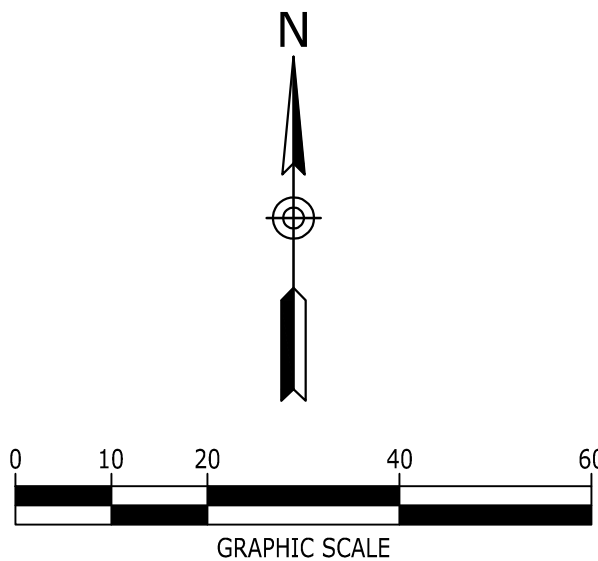
LANDSCAPE KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
L1	PLANTING BED LIMITS	1 / L2.0
L2	IRRIGATION LIMITS	NOTES / L2.0
L3	AREA TO BE SEEDED	
L4	AREA TO BE SODDED	
L5	AREA TO BE 4'-6" RIVER ROCK	

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



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-L1.2

Devenney  
GROUP

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Consultant:

Catalyst  
DESIGN GROUP

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



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PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SEC. 102 OF THE COPYRIGHT  
ACT, 17 U.S.C. 101-102 (RECEIVED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL  
WORKS COPYRIGHT PROTECTION 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 DHS

FACILITY NUMBER:  
0972400009

AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

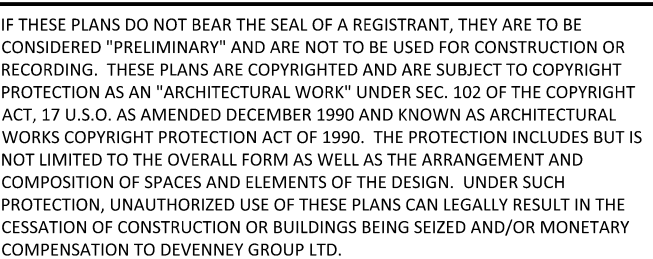
DATE: 2024/09/19  
SCALE: 1:20  
DRAWN: AP  
REVIEWED: WB  
JOB NUMBER: 6406.24

DETAILED  
LANDSCAPE PLAN

DP-L1.2



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# DP-L2.0

10. IRRIGATION CONTRACTOR TO COORDINATE PLACEMENT OF REQUIRED SLEEVES WITH GENERAL CONTRACTOR PRIOR TO PAVING AND CONCRETE INSTALLATION BEING COMPLETED.

5

NOT TO SCALE

4. IT IS THE OWNER'S RESPONSIBILITY TO COORDINATE AND SCHEDULE TREE MAINTENANCE.

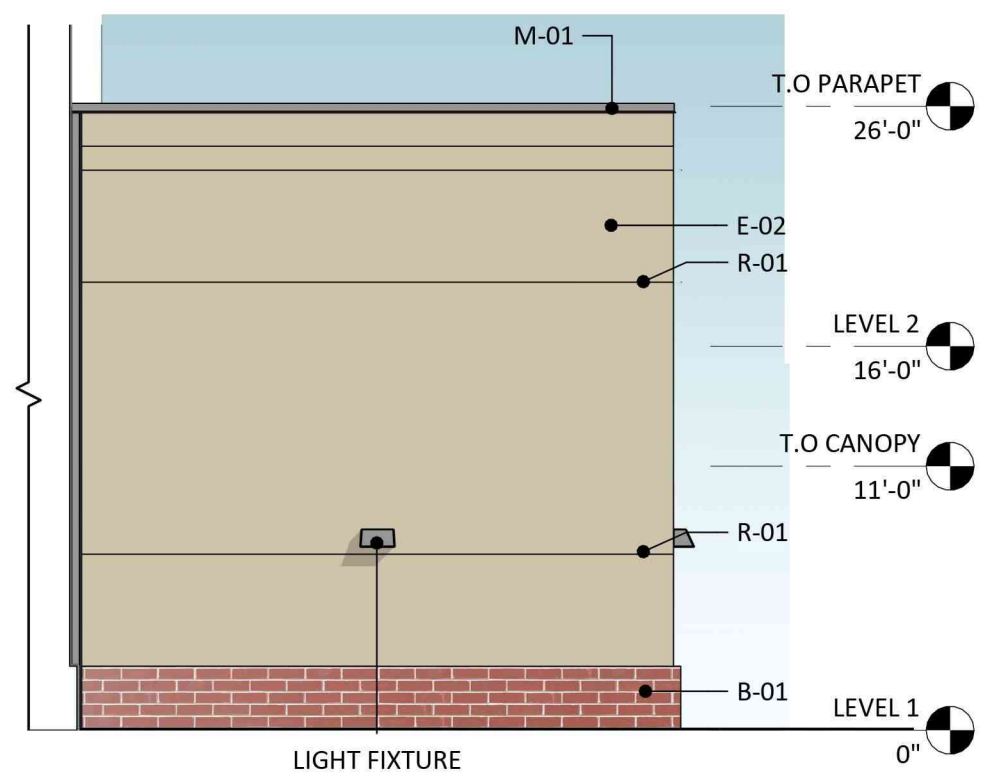
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## FINAL DEVELOPMENT PLAN

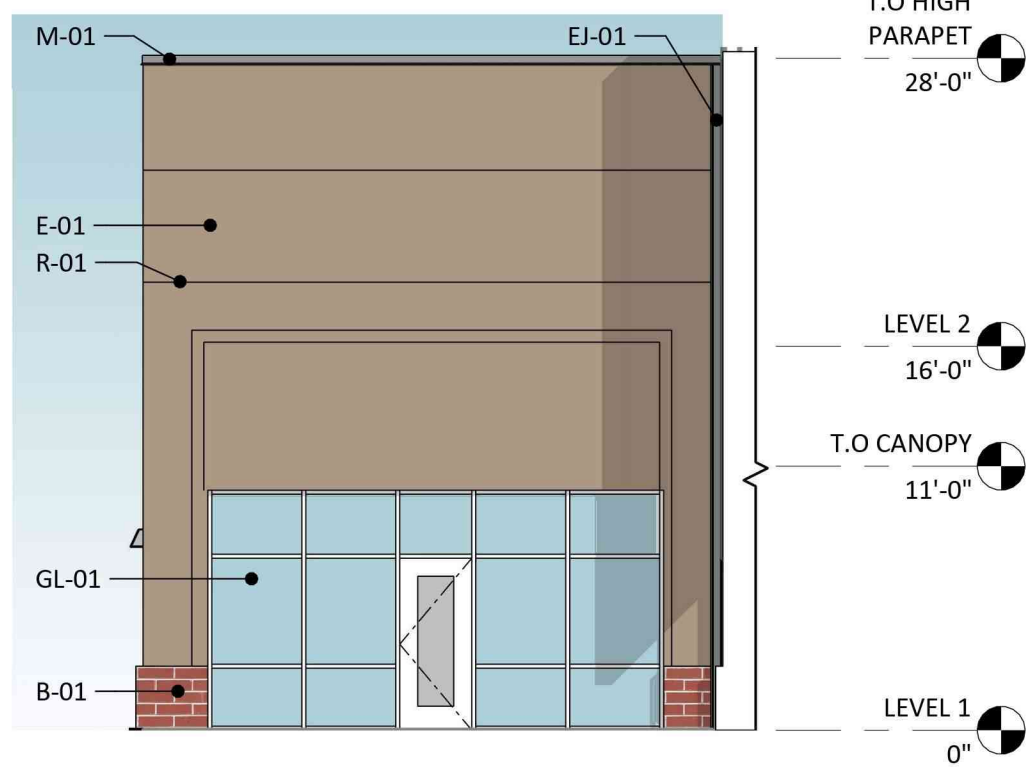
NO.	DATE	DESCRIPTION
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# DP-L2.0

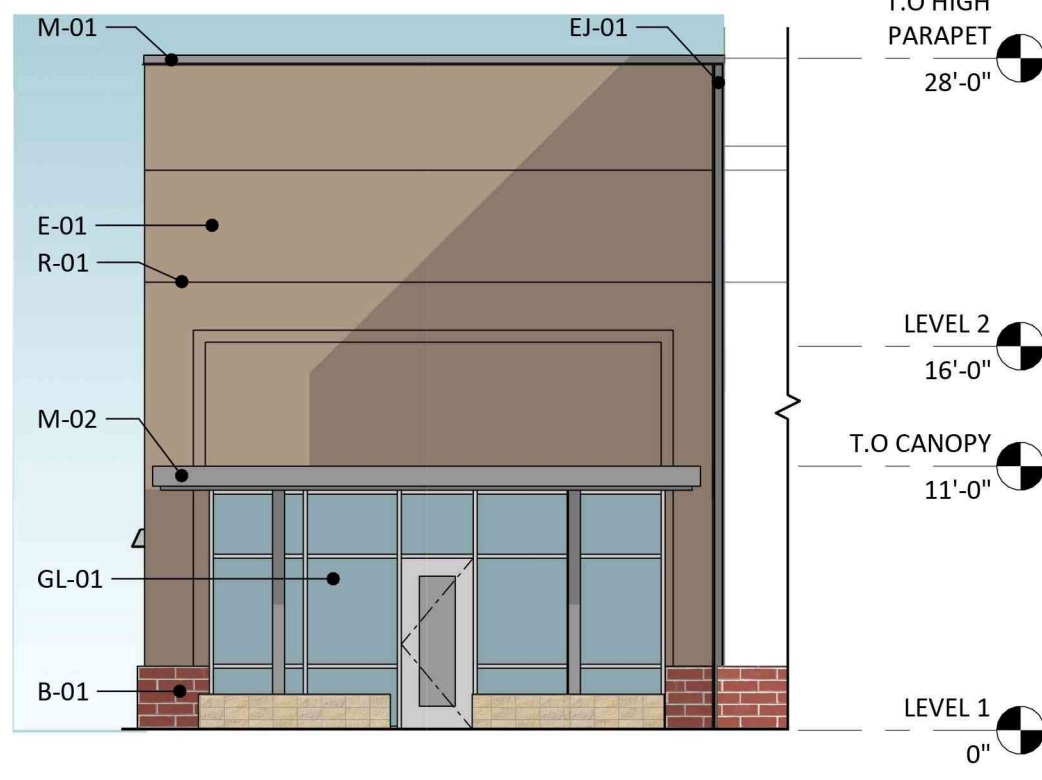




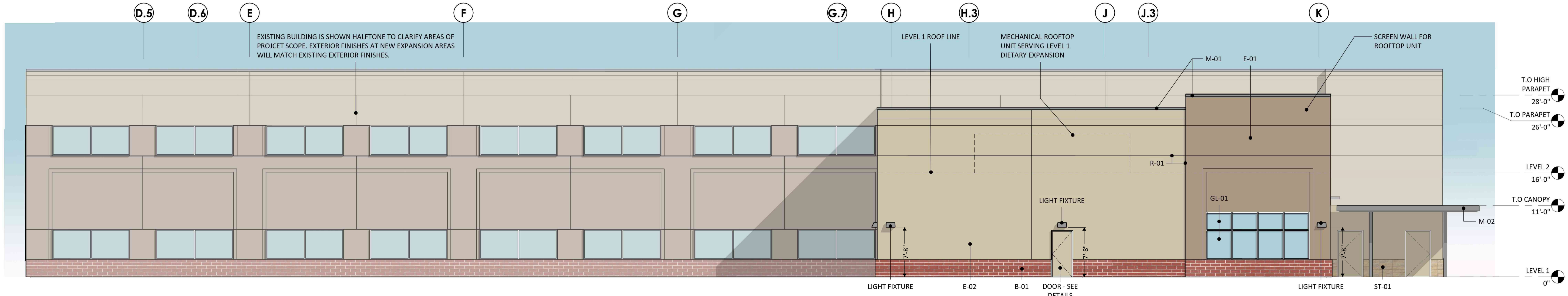
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1/8" = 1'-0"



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



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



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

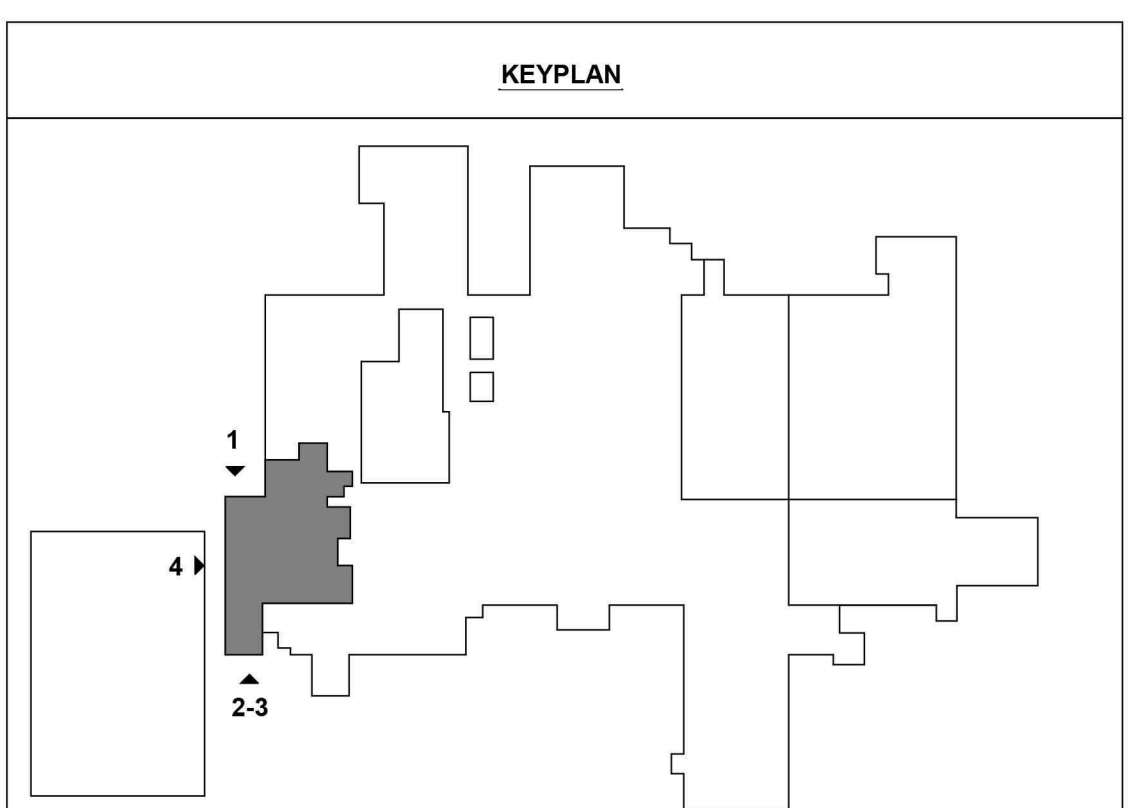
MATERIAL LEGEND	
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PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING
GL-02	SPANDREL INSULATED GLAZING UNIT
PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING
E-01	EXTERIOR INSULATION FINISH SYSTEM COLOR 1
PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING
E-02	EXTERIOR 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



6 DIETARY EXPANSION - WEST VIEW



5 OUTDOOR DINING VIEW



Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road  
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Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

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AGENCY APPROVALS:  
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 2024/08/28

SCALE: 1/8" = 1'-0"

DRAWN:

REVIEWED:

JOB NUMBER: 6406.24

EXTERIOR BUILDING  
ELEVATIONS

AE201

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INPATIENT BED  
EXPANSION

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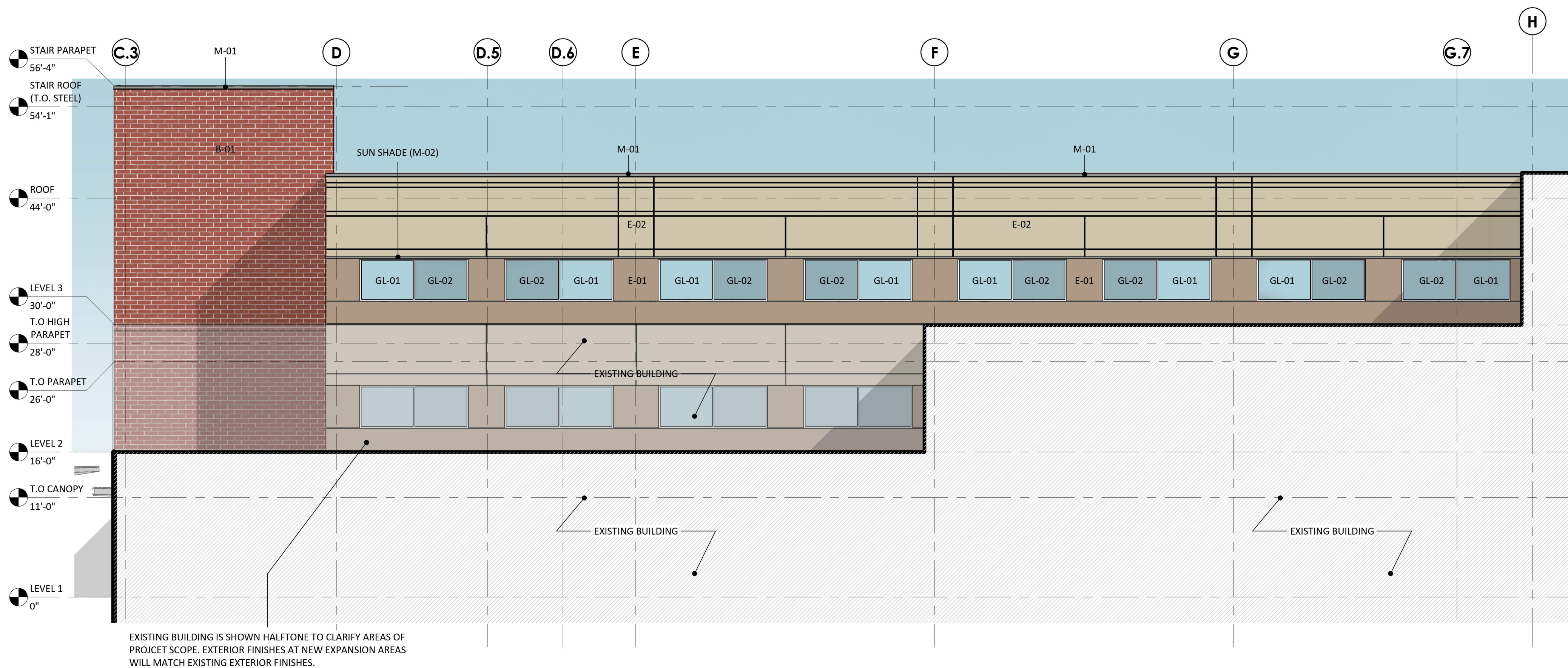
AGENCY APPROVALS:  
AGENCY

REVISIONS  
REV # DESCRIPTION DATE

DATE: 07/24/2024  
SCALE: 1/8" = 1'-0"  
DRAWN:  
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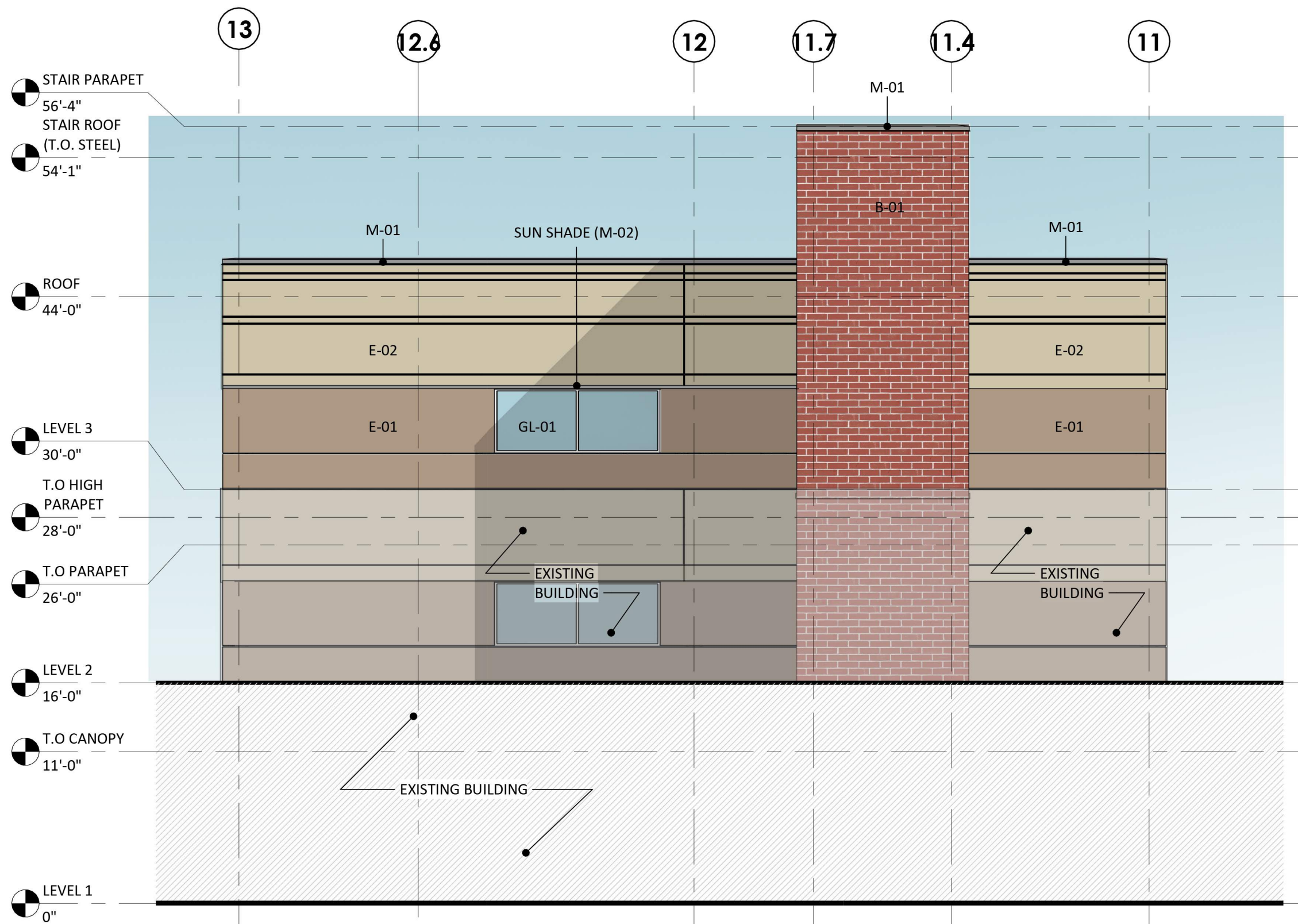
EXTERIOR BUILDING  
ELEVATIONS

AE202



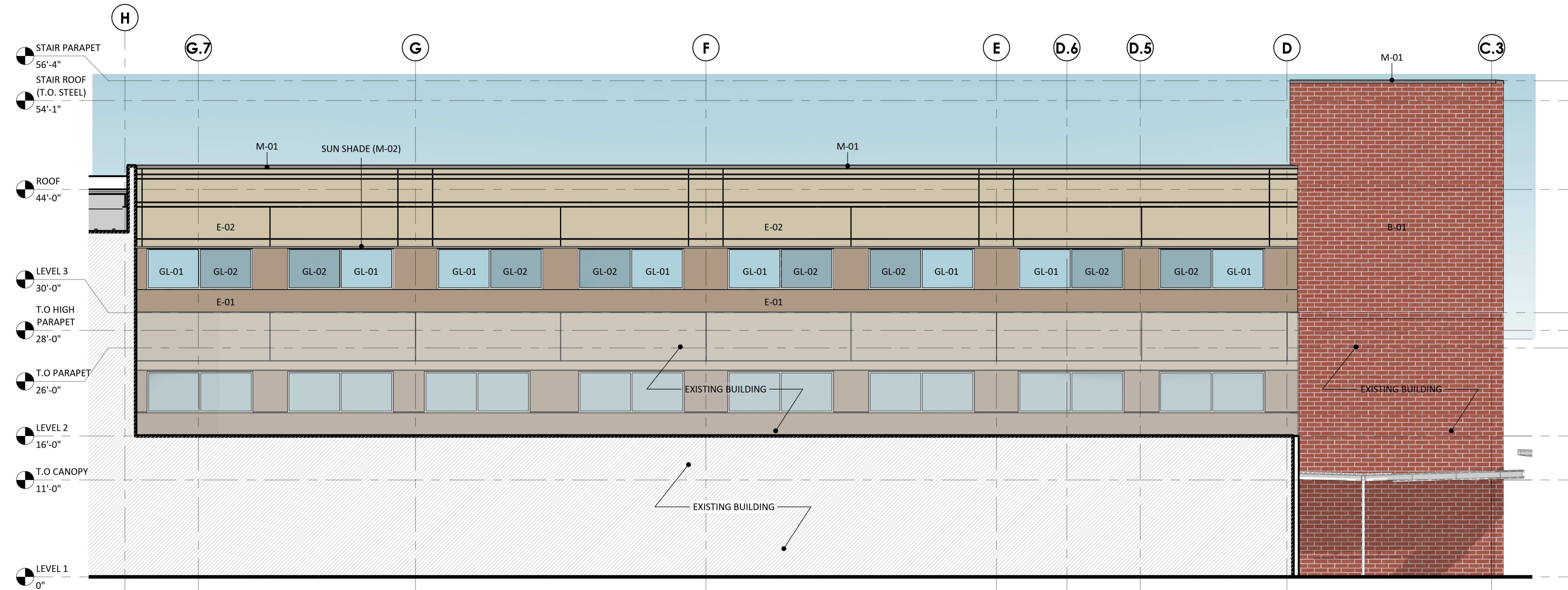
1 WEST ELEVATION - MED SURG (16-BED UNIT)

1/8" = 1'-0"



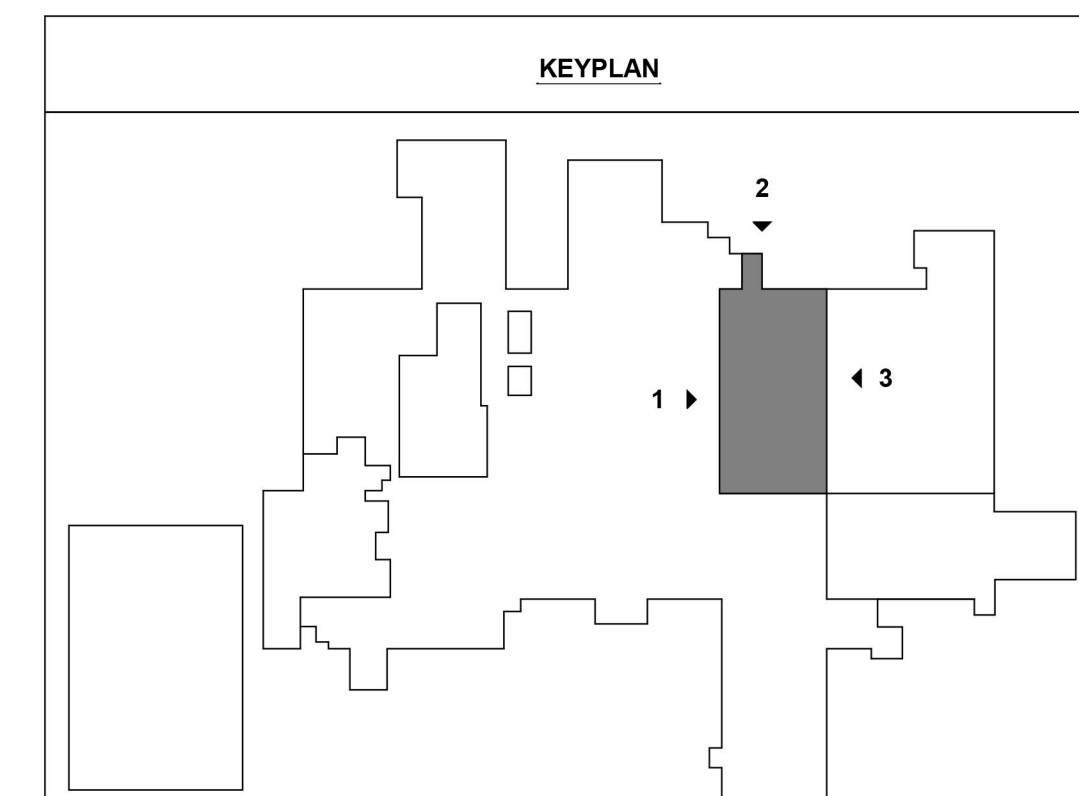
2 NORTH ELEVATION - MED SURG (16-BED UNIT)

1/8" = 1'-0"



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

1/8" = 1'-0"





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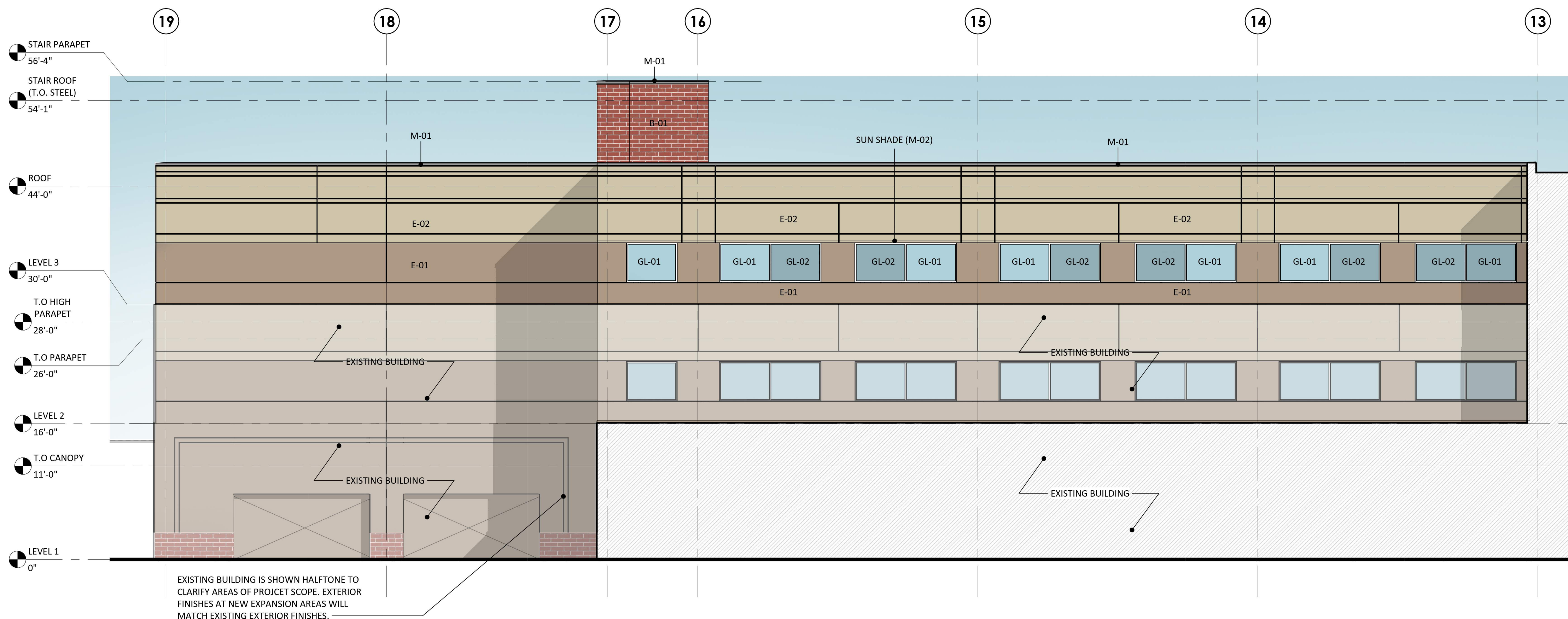
REVISIONS

REV #	DESCRIPTION	DATE

DATE: 07/24/2024  
SCALE: 1/8" = 1'-0"  
DRAWN:  
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JOB NUMBER: 6406.24

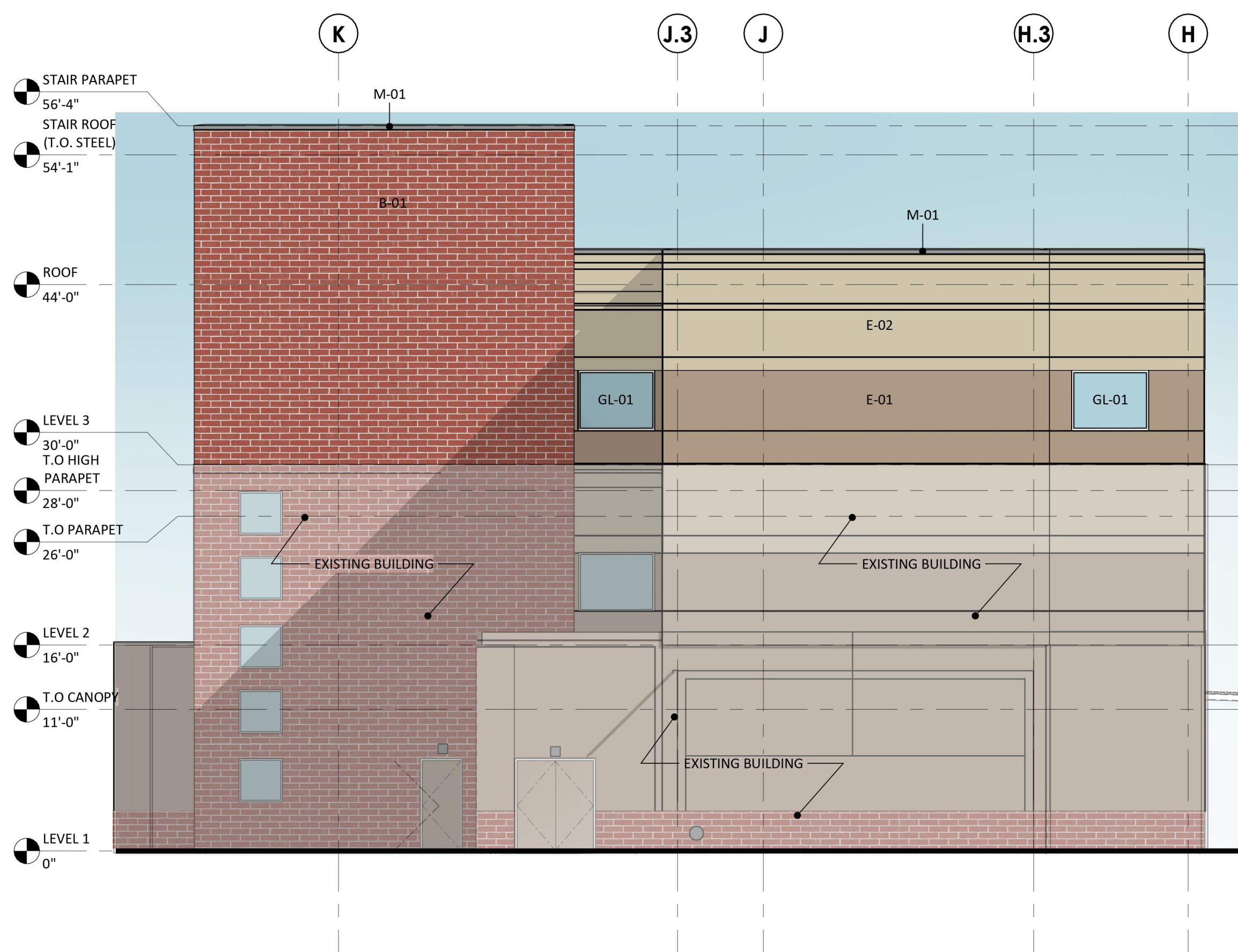
EXTERIOR BUILDING  
ELEVATIONS

AE203



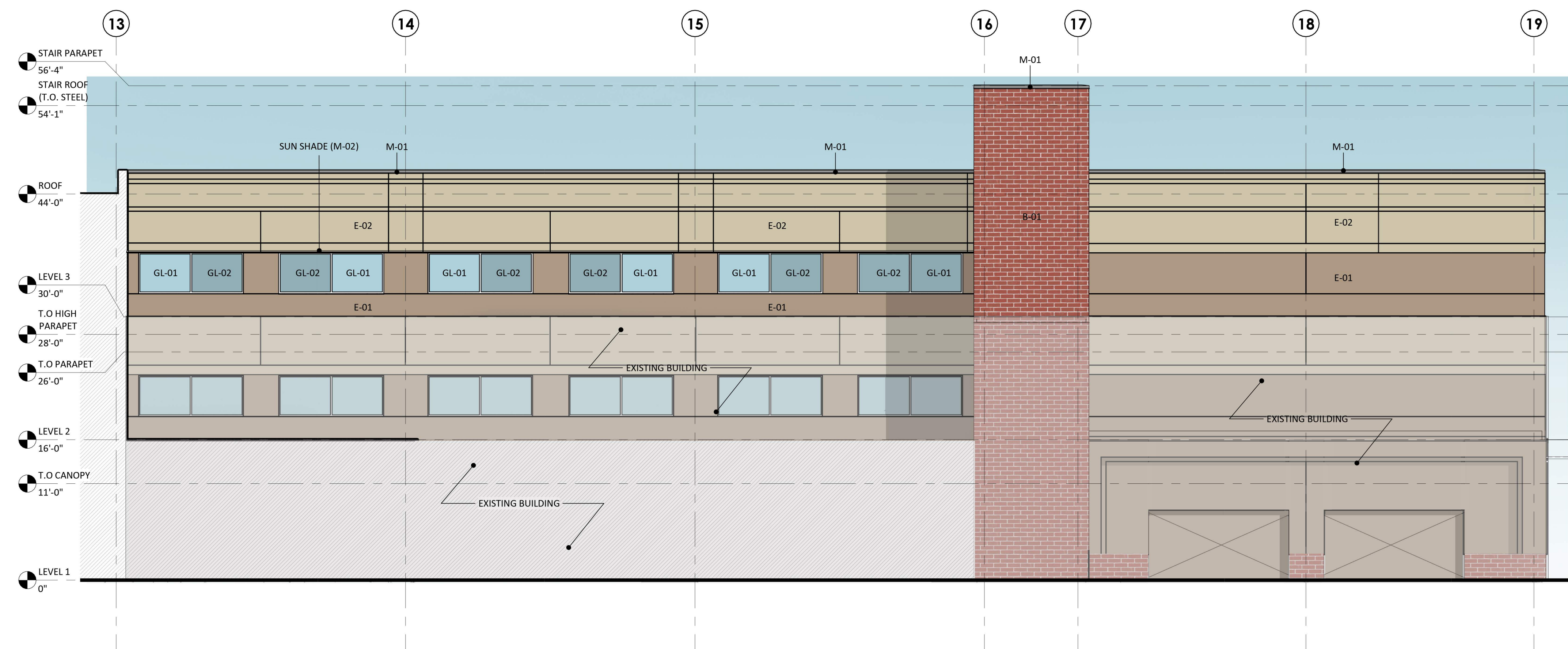
1 NORTH ELEVATION - MED SURG (12-BED UNIT)

1/8" = 1'-0"



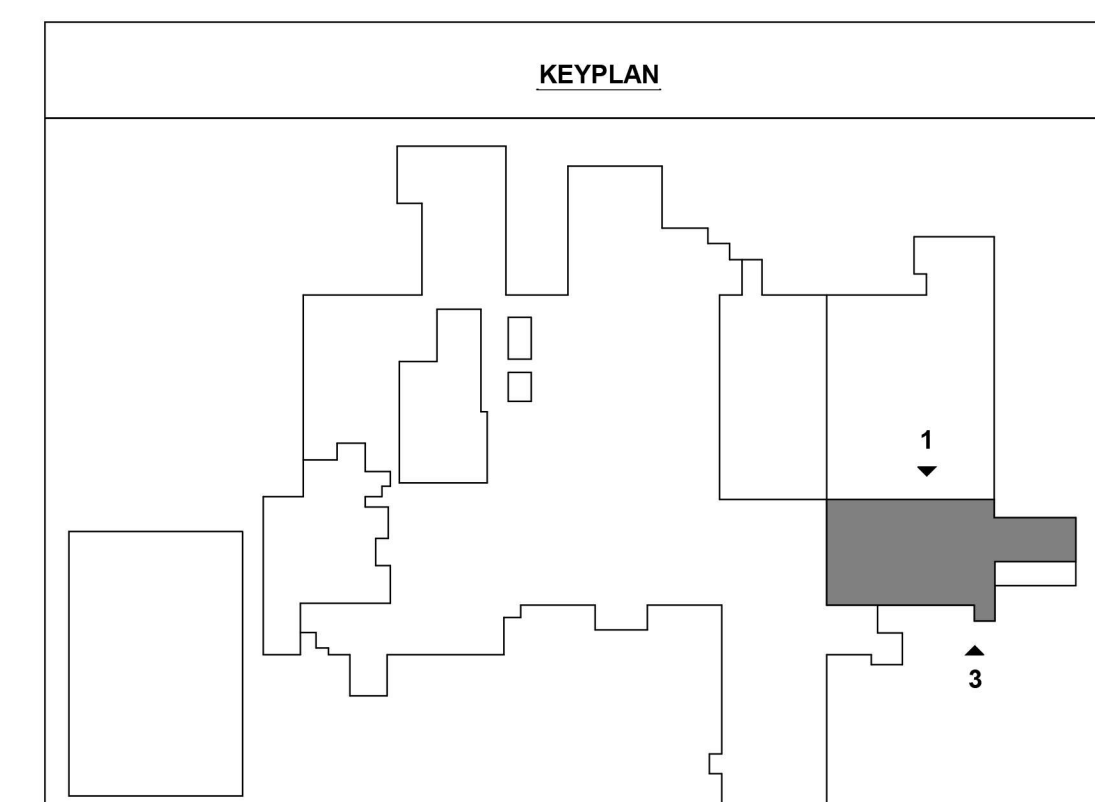
2 EAST ELEVATION - MED SURG (12-BED UNIT)

1/8" = 1'-0"



3 SOUTH ELEVATION - MED SURG (12-BED UNIT)

1/8" = 1'-0"



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THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT TO BE DETERMINED BY THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING 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, MATERIALS, LABOR, SUPERVISION AND SERVICE NECESSARY SO AS TO PROVIDE A COMPLETE, FUNCTIONAL ELECTRICAL SYSTEM.

2. 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.

3. 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 THE CODES AND STANDARDS, AND DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS, 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.

4. IF ANY DISCREPANCY OR CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS, AND STANDARDS IS NOT WHEN THEY ARE FIRST 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 THE RESULTS OBTAINED THEREFROM, CAUSED BY SUCH DISCREPANCY.

5. 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.

6. 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 MEASUREMENTS FOR ANY OF THE DIMENSIONS SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BEING CONSIDERED FOR FAILURE TO OBTAIN EXACT DIMENSIONS WHERE NOT CLEAR OR IN ERROR ON THE DRAWINGS. ANY DEVICE OR FIXTURE ROUGHED IN IMPROPERLY, AND NOT POSITIONED ON IMPLIED CENTER-LINES OR AS REQUIRED BY GOOD PRACTICE MUST BE REPOSITIONED AT NO COST TO THE OWNER.

7. THE CONTRACTOR OR ITS SUBSIDIARIES SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CERTIFICATES OF INSPECTION. THE CONTRACTOR SHALL DELIVER ALL CERTIFICATES OF INSPECTION TO OWNER/CONSTRUCTION MANAGER INCLUDING COPIES WITH MAINTENANCE MANUALS.

8. THE CONTRACTOR SHALL PROVIDE CRIMINAL RECORD CHECKS IN THEIR RESPECTIVE TRADE SHALL PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.

9. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA STANDARD TO NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES AND STANDARDS FOR ALL CODES AND STANDARDS. UNLESS OTHERWISE INDICATED, ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL MEET NFPA AND ANSI STANDARDS. THEY SHOULD ALSO BE LISTED LABEL BY A NATIONALLY RECOGNIZED LABORATORY IN ACCORDANCE WITH THE EQUIPMENT AND MATERIALS LISTING LABELING REQUIREMENTS AND RESTRICTIONS. THE CONTRACTOR'S RECOMMENDATIONS AND WITHIN THEIR LISTING LABELING REQUIREMENTS AND RESTRICTIONS.

10. PROVIDE SHOP DRAWINGS FOR ENGINEERS 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 SPECIFICATION (PROJECT MANUAL) FOR REQUIREMENTS.

2. PROVIDE AN IDENTIFICATION NAMEPLATE FOR EACH ELECTRICAL EQUIPMENT. APPURTENANCE DEPICTING THE LOCATION AND THE DRAWINGS. RELEVANT SPECIFICATIONS FOR FURTHER REQUIREMENTS.

3. WEATHER-PROOF ENCLOSURES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT DEVICES AND APPURTENANCES (ALL SYSTEMS) INSTALLED OUTDOORS.

4. COORDINATE AND SCHEDULE ALL POWER OUTAGES WITH OWNER. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

5. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN UTILITY 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 CONSTRAINTS OF THE ALLOCATED SPACE.

6. DO NOT PERMANENTLY MARK OR REMOVE ANY TEMPORARY MARKINGS OR 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.

1. 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.
2. 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.

[illegible]

1. CIRCUITING IS SHOWN DIAGRAMMATICALLY. HOMERUNS SHALL BE COMBINED WHERE NECESSARY IN ACCORDANCE TO THE FOLLOWING:
2. 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.
3. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS SHALL BE COPPER, 90% CONDUCTIVITY CONTINUOUS FROM OUTLET TO OUTLET.
4. UNLESS OTHERWISE INDICATED, CONDUCTOR SIZES #12 AND #10 AWG SHALL BE SOLID. CONDUCTOR SIZES #8 AWG AND LARGER MAY BE STRANDED.
5. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS, INCLUDING WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAYS, OR A CABLE ARMOR OR SHEATH SHALL NOT BE USED AS THE ONLY EQUIPMENT GROUNDING CONDUCTOR.
6. HOMERUN CIRCUITS FOR ISOLATED GROUND RECEPTACLES SHALL BE SEPARATED FROM OTHER CIRCUITS. EACH RECEPTACLE HAVE TWO (2) NEUTRAL CONDUCTOR AND EACH HOMERUN SHALL CONTAIN AN ISOLATED AND EQUIPMENT GROUND CONDUCTOR.

5. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL WALL RECEPTACLES. UNMOUNTED RECEPTACLES 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 WALL/FLOOR TYPES IN THE PROJECT. (DO NOT SCALE ARCHITECTURAL DRAWINGS.)
6. COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL VENTILATION, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
7. 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.
8. PROVIDE THE EXACT POWER REQUIREMENTS FOR EACH EQUIPMENT TO BE INSTALLED. EQUIPMENT INFORMATION FURNISHED BY THE OWNER, OTHER TRADES, OR UNDER A SEPARATE SECTION OF THIS CONTRACT PRIOR TO ELECTRICAL ROUGH-IN.
9. 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.
10. ALL GFCI RECEPTACLES SHALL BE CONNECTED SO THAT ALL DEVICES ON THE SAME CIRCUIT AS THE GFCI RECEPTACLE DO NOT DE-ENERGIZE UPON TRIPPING. ALL GFCI RECEPTACLES SHALL INCLUDE A LOCK-OUT POINT TO PROTECT AGAINST THE USE OF MISWired DEVICES OR DEVICES THAT HAVE BEEN DAMAGED DUE TO DISABLING SURGES.

REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION OF ALL CEILING ELEMENTS (LIGHTS, SMOKE DETECTORS, SPRINKLERS, ETC.). VERIFY THE LOCATION OF ALL ELEMENTS 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.

2. PROVIDE AND INSTALL ALL SUPPORTS FOR LIGHT FIXTURES. SUPPORTS SHALL BE INDEPENDENT OF THE CEILING RECESS SYSTEM.

3. 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 SWITCH/PLATE LABELING EACH INDIVIDUALLY. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SWITCHES 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 SYSTEMS WITH THE MANUFACTURER PRIOR TO BID AND INCLUDE ALL NECESSARY ACCESSORIES TO INSTALL A COMPLETE AND FUNCTIONING SYSTEM.

1. REFERENCE THE MECHANICAL AND PLUMBING DRAWINGS FOR ALL EQUIPMENT NEEDING ELECTRICAL CONNECTIONS. COORDINATE WITH THE MECHANICAL AND PLUMBING DEPARTMENTS FOR EQUIPMENT PROTECTION FOR ALL EQUIPMENT.
2. VISIT EXACT LOCATION OF ALL POWER CONNECTIONS AND CONTROL DEVICES WITH OTHER TRADES AND MECHANICAL MANUFACTURER SHOP DRAWINGS BEFORE CONSTRUCTION. COORDINATE ALL REQUIRED ENERGY MANAGEMENT SYSTEMS AND CONTACT CONNECTIONS TO ENSURE THE COMPLETE AND PROPER EQUIPMENT OF ALL SYSTEMS.
3. ALL SWITCHED AND/OR CIRCUIT BREAKERS SERVING EQUIPMENT SHALL HAVE PROVISIONS FOR HANDLE LOCKS.
4. ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BEAR AN HARC RATING.
5. ALL DISCONNECTS DOWN STREAM OF FVDS SHALL BE PROVIDED WITH AUXILIARY CONTACTS TO SHUT DOWN ALL DOWN STREAM VAVS.
6. COORDINATE BETWEEN TRADES AND PROVIDE CONTROL POWER FOR ALL VAV BOXES/DAMPERS/ETS, AS REQUIRED TO OPERATE A COMPLETE, FULLY FUNCTIONAL HVAC SYSTEM. SHOULD AN EXACT CIRCUIT NUMBER NOT BE PROVIDED, ELECTRICAL CONNECTIONS SHALL BE MADE TO THE NEAREST 200V/120V PANEL OR FROM BUILDING CONTROL POWER DISTRIBUTION SYSTEM.

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.

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE		
SYMBOL	DESCRIPTION	MNTG. HT. UN.
	SINGLE RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	18" AFF
	DUPLEX RECEPTACLE GFCI - 20A/125V/2P/3W/G 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/3W/G 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
	QUADRUPLEX RECEPTACLE (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	18" AFF
	QUADRUPLEX RECEPTACLE ON EMERGENCY CIRCUIT (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	18" AFF
	QUADRUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	8" AFC OR 42" AFF
	QUADRUPLEX 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/ CL SURFACE
	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	AS REQUIRED
	WALL MOUNTED JUNCTION BOX FOR DATA/TELEPHONE - SIZE & MOUNTING AS REQUIRED	AS REQUIRED
	POWER POLE	--
	PLUGMOLD	AS REQUIRED
	DISCONNECT SWITCH (X=FRAME SIZE, Y=FUSE 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, 3/4", 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

NOTE 1. ALL MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE, UNLESS OTHERWISE INDICATED.

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

LEGEND NOTES: DENOTES "SEE LEGEND NOTE NO. 2"

① DENOTES: EQUIPMENT (ID) NUMBER FOR FOOD SERVICE EQUIPMENT. REFER TO FOOD SERVICE DOCUMENTS FOR DEFINITION AND REQUIREMENTS.

② DENOTES: REFERENCE DETAIL 02 ON DRAWING (SHEET) ET 01

③ DENOTES: REFERENCE ENLARGED DETAIL PLAN 02 ON DRAWING (SHEET) ES 01

④ DENOTES: EQUIPMENT (ID) NUMBER FOR OWNER PROVIDED EQUIPMENT. REFER TO OWNER'S EQUIPMENT BOOK / IF/BE DOCUMENTS FOR DEFINITION AND REQUIREMENTS.

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 SHALL PROVIDE ANY AND ALL DEVICES FOR A COMPLETE SYSTEM. PROVIDE PLANS TO BE SUBMITTED FOR AHJ APPROVAL SHALL BE PRODUCED BY A QUALIFIED INDIVIDUAL OR FIRM.

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.		
SYMBOL	DESCRIPTION	INTO THE WALL (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 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

1. REFER TO LIGHT FIXTURE SCHEDULE FOR SPECIFIC FIXTURE INFORMATION.
2. 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 ARCHITECTS CEILING PLANE.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR MOUNTING HEIGHTS OF PENDANT FIXTURES. REFER TO LIGHTING FIXTURE SCHEDULE FOR PENDANT MATERIAL.
4. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL MOUNTING HEIGHTS. WHERE MOUNTING HEIGHT IS NOT INDICATE BY ARCHITECT, PROVIDE AT 48" AFF.





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Engineer: MINDY WHISLER  
Eng. Reg. No. 256-0017000125  
Date: 07/24/2024  
Firm: 2513001881

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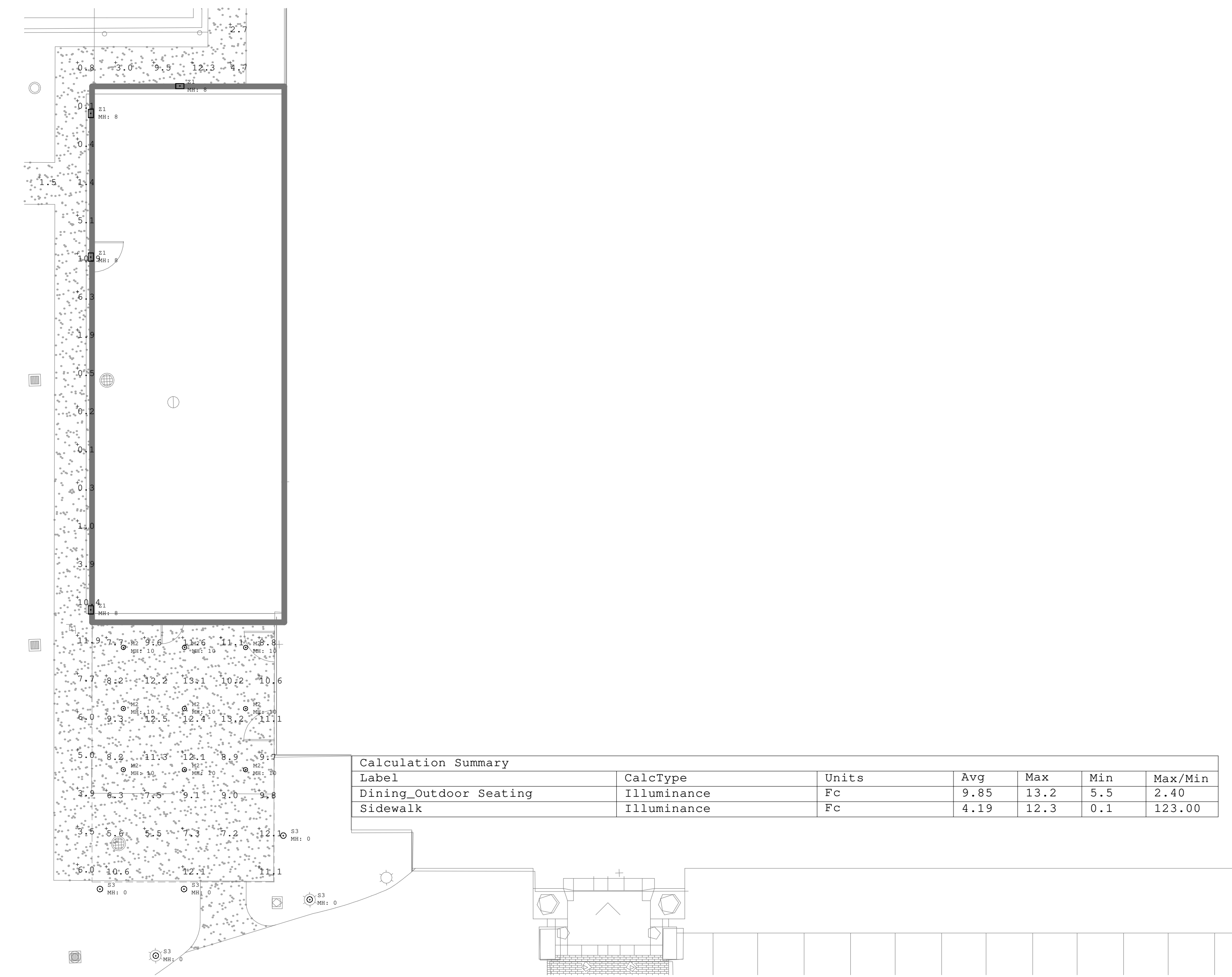
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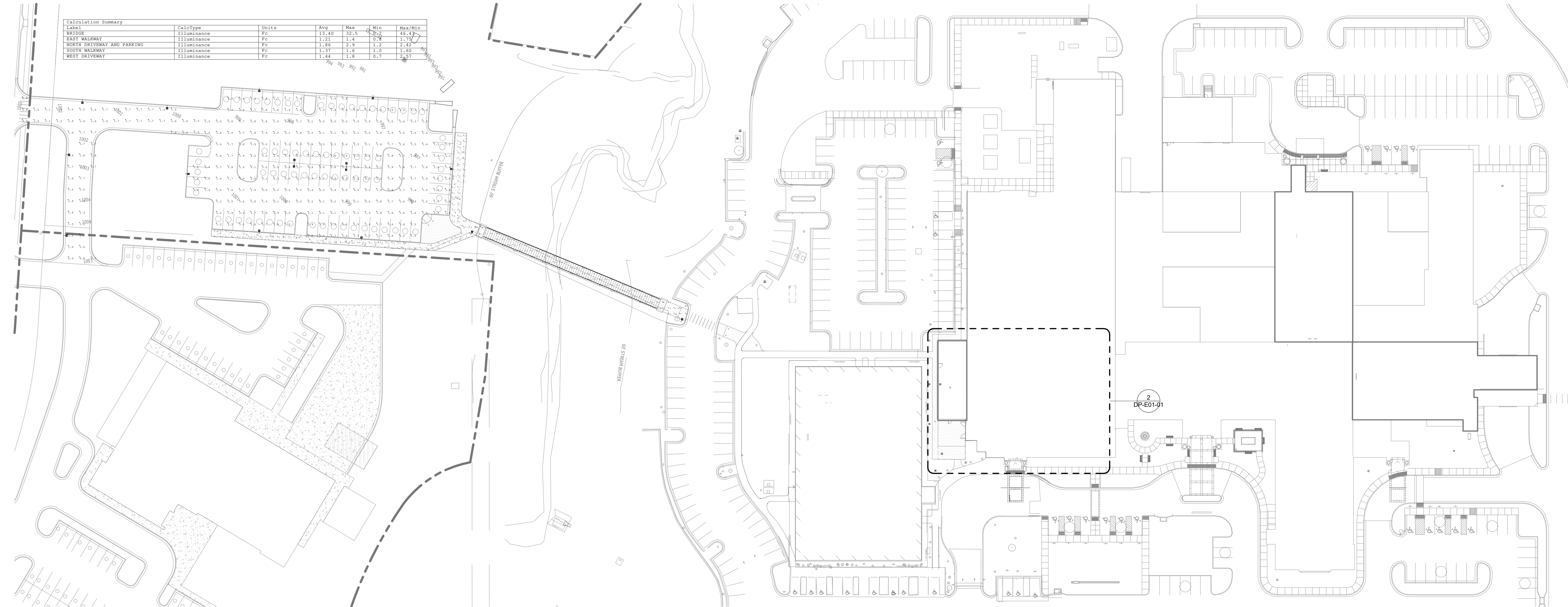
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SCALE: As indicated  
DRAWN: Author  
REVIEWED: Checker  
JOB NUMBER: 6406.24

SITE PLAN - PHOTOMETRICS

DP-E01-01



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



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









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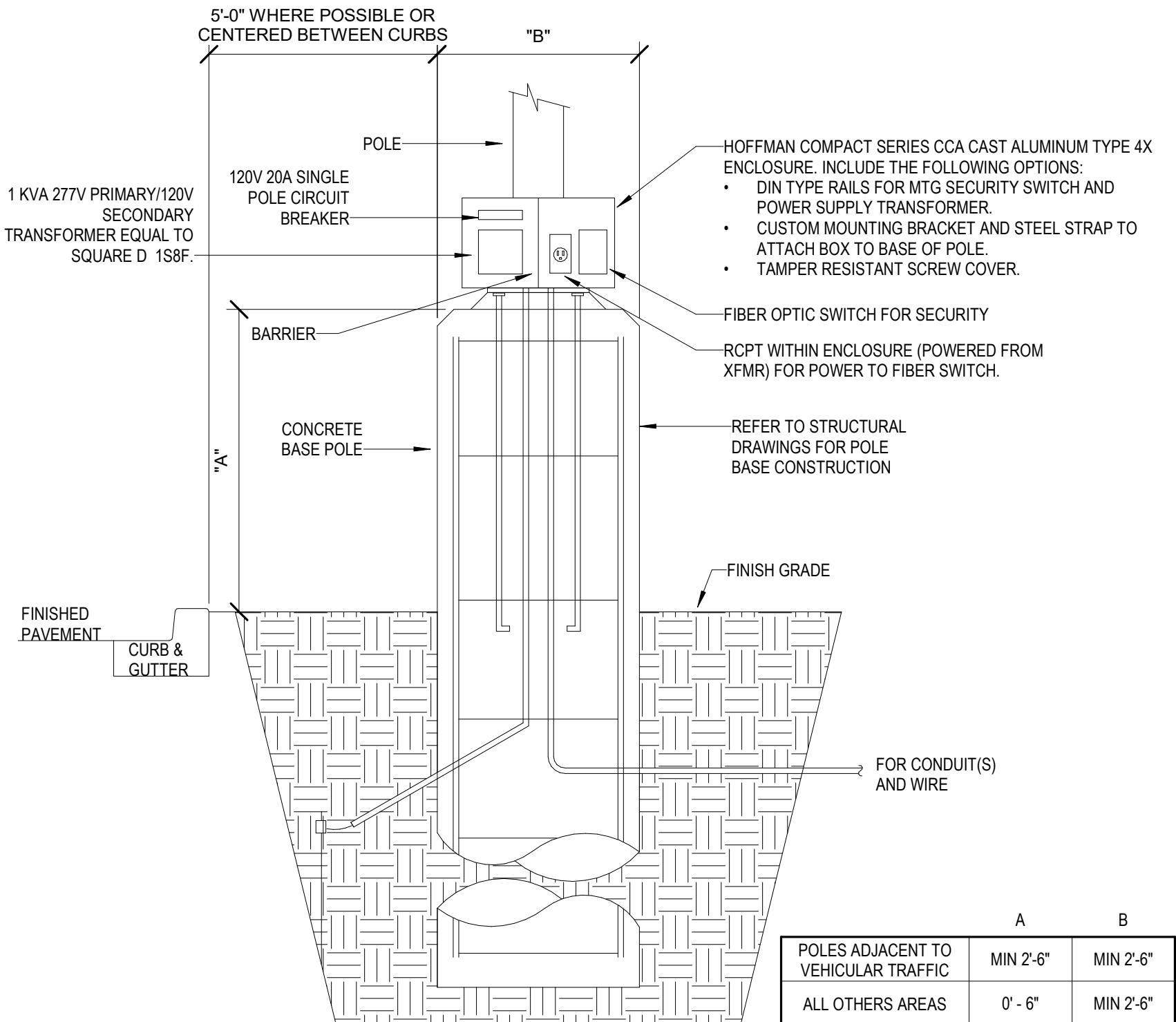
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DETAILS - ELECTRICAL

DP-E07-01



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





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SCHEDULES - ELECTRICAL

DP-E08-01

EXTERIOR ELECTRICAL LUMINAIRE FIXTURE SCHEDULE

TYPE	DESCRIPTION	LOCATION	PHYSICAL DESCRIPTION					ELECTRICAL SPECIFICATIONS										MANUFACTURER INFORMATION		
			HOUSING	REFLECTOR	SHIELDING	FINISH	MOUNTING	COLOR TEMP.	LAMP	LUMENS	HOURS	VA	UNITS	BALLAST / DRIVER	VOLTAGE	MANUFACTURER	CATALOG NUMBER	REMARKS		
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	#JSF 7IN 10LM S1W5 90CRI MVOLT 2T			
S1	ARCHITECTURAL SINGLE HEAD LED SITE FIXTURE, TYPE IV DISTRIBUTION	EXTERIOR SITE	DIE-CAST ALUMINUM	TYPE IV MEDIUM	NONE	TGIC 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-20C-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	TGIC 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-20C-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	TGIC POWDER COAT FINISH IN BLACK	SURFACE MOUNTED	5,000	LED	1,535	50000	72	EACH	LED DRIVER	120	HYDREL	#3140C-H42-8C0B-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	#IR LIN 1.5 316 40K H CL D			
Z1	LED TRAPEZOIDAL WALL PACK WITH PHOTOCELL, WIDE DISTRIBUTION	EXTERIOR	DIE CAST ALUMINUM, DIE-CAST DOOR FRAME WITH SOLID SILICONE GASKET, IP65	N/A	FULL CUTOFF	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	#WST LED P1 40K VW MVOLT PE DDBXD			

EXIST: M1ELA										EMERGENCY									
LOCATION: EXTERIOR ELEC 1-ME1131A					FED FROM: M1DPEL1					NEUTRAL BUS: YES									
MAIN BUS: 100 A					WIRES: 4W + G + IG					ENCLOSURE: NEMA 1									
MCB: N/A					BUS TYPE: COPPER					ISOLATED GROUND BUS: YES									
VOLTAGE: 120/208 WYE					MOUNTING: SURFACE					200% NEUTRAL: NO									
AIC AVAILABLE: EXISTING					PANEL LUGS: MLO					FEED THROUGH LUGS: YES									
AIC RATING: 10000 A					NUMBER OF SECTIONS: 2					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	REMOTE LOT PHONE	18											
19	EXISTING LOAD	--	20	1	3	30	EXISTING LOAD	20											
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	REMOTE LOT PHONE	44											
45	EXISTING LOAD	--	20	1	1	20	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	EXISTING LOAD	--	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											
2 A / 2 A / 2 A																			
LOAD CLASSIFICATION		CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)		PANEL TOTALS														
MISC		600	600		EXISTING CONNECTED LOAD:		KVA	AMPS											
					REMOVED CONNECTED LOAD:		0	0											
					ADDED CONNECTED LOAD:		0.6	1.7											
					TOTAL CONNECTED LOAD:		32.8	91.1											
					TOTAL ESTIMATED DEMAND:		32.8	91.1											
NOTES:																			

EXIST: M1NLA										NORMAL									
LOCATION: EXTERIOR ELEC 1-ME1131					FED FROM: M1DPNL1					NEUTRAL BUS: YES									
MAIN BUS: 225 A					WIRES: 4W + G + IG					GROUND BUS: YES									
NCB: N/A					ENCLOSURE: NEMA 1					ISOLATED GROUND BUS: YES									
VOLTAGE: 120/208 WYE					BUS TYPE: COPPER					200% NEUTRAL: NO									
AIC AVAILABLE: EXISTING					MOUNTING: SURFACE					FEED THROUGH LUGS: YES									
AIC RATING: 10000 A					PANEL LUGS: MLO					POLES PER SECTION: 42									
NUMBER OF SECTIONS: 3																			
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	EXISTING LOAD	--	--	--	1	20	EXISTING LOAD	50											
51	EXISTING LOAD	--	--	--	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	EXISTING LOAD	--	--	--	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	--	--	--	--	--	--	EXISTING LOAD	124											
125	--	--	--	--	--	--	EXISTING LOAD	126											
8 A / 0 A / 3 A																			
LOAD CLASSIFICATION		CONNECTED LOAD (VA)		ESTIMATED DEMAND (VA)		PANEL TOTALS													
LGHT		264		330		EXISTING CONNECTED LOAD:		KVA	AMPS										
MISC		200		200		REMOVED CONNECTED LOAD:		0	0										
RCPT		720		720		ADDED CONNECTED LOAD:		1.2	3.3										
						TOTAL CONNECTED LOAD:		36.4	101.1										
						TOTAL ESTIMATED DEMAND:		36.5	101.3										
NOTES:																			





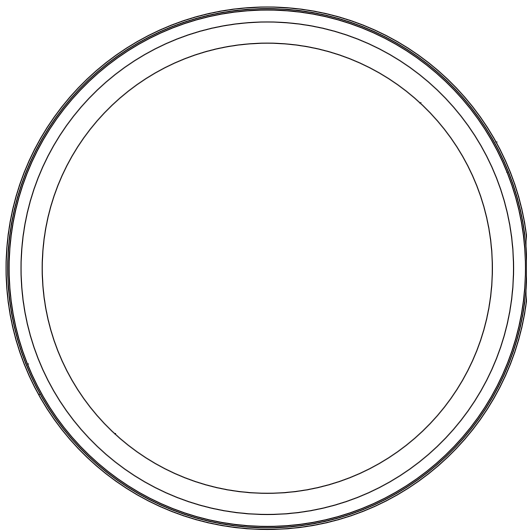
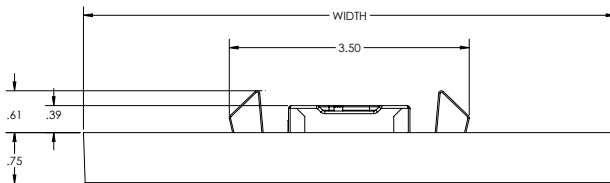
# Juno SlimForm™ LED with Selectable CCT

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).





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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 <sup>1</sup>
<b>JSF</b> SlimForm Surface Mount Downlight - Round	<b>5IN 07LM</b> 5", 791-854 Lumens <b>7IN 10LM</b> 7", 1182-1324 Lumens	<b>SWW5</b> Switchable White (2700K, 3000K, 3500K, 4000K, 5000K)	<b>90CRI</b> 90+ CRI	<b>120 FRPC</b> Dedicated 120V, Forward Reverse Phase Dimming <b>MVOLT ZT</b> Universal Voltage 120V-277V, 0-10V Dimming	<b>WH</b> White <b>WH LGL<sup>2</sup></b> White Low Glare Lens <b>BL LGL<sup>2</sup></b> Black Low Glare Lens <b>BZ LGL<sup>2</sup></b> Bronze Low Glare Lens <b>SN LGL<sup>2</sup></b> 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.

## ACCESSORIES<sup>1</sup>

**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 7IN 7 inches	WH White BL Black BZ Bronze SN <sup>*</sup> Satin Nickel

### Note:

\* SN not available for 5IN



BLACK



BRONZE



SATIN NICKEL





# Juno SlimForm™ LED with Selectable CCT

5" and 7" Round Downlight for JBox Installation



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](http://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

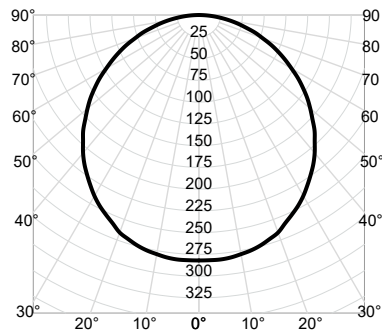
5" and 7" Round Downlight for JBox Installation



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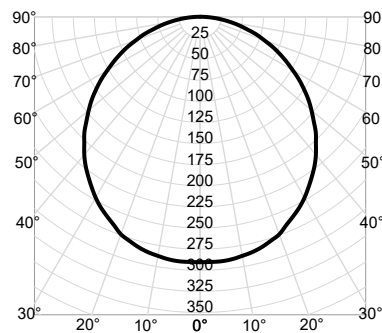
## PHOTOMETRICS

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



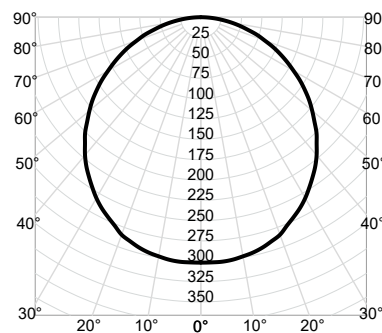
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf	80%			70%			50%			Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance	
	0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	282	0° - 30°	220	28%	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	Beam Angle: 112.3° Field Angle: 163.9°			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)	
						pf	80%			70%			50%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
0°		Zone	Lumens	% Fixture	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	Beam Angle: 112.3° Field Angle: 163.9°			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)	
						pf					20%						Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
						pc	80%	70%		50%										
	0°	Zone	Lumens	% Fixture	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	Beam Angle: 112.3° Field Angle: 163.9°			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

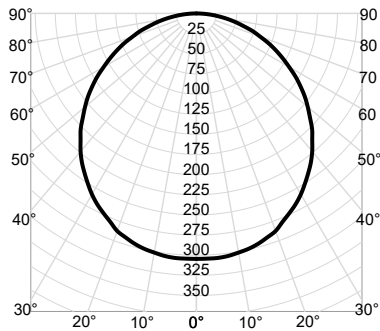
5" and 7" Round Downlight for JBox Installation



JSF

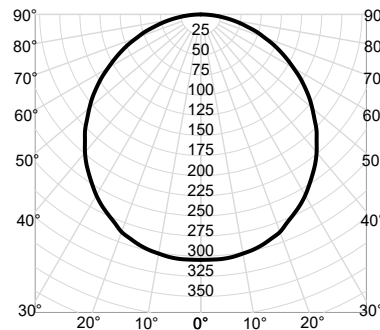
## PHOTOMETRICS

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



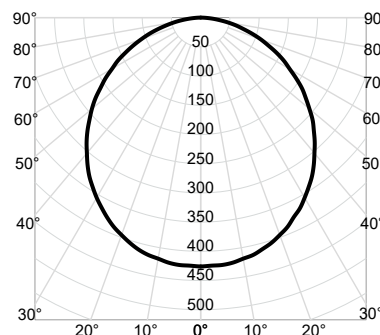
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)		
						pf											Mounting Height	Initial FC Center Beam	Beam Diameter		
0°		Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				Average Luminance			
0°	305	0° - 30°	238	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.5	17.9	0°	34,074		
5°	305	0° - 40°	386	45%	1	104	100	96	102	98	94	98	94	91	8.0	4.8	23.8	45°	32,125		
15°	296	0° - 60°	675	79%	2	91	84	78	89	82	77	85	80	75	10.0	3.0	29.8	55°	30,756		
25°	273	0° - 90°	854	100%	3	80	71	65	78	70	64	75	69	63	12.0	2.1	35.8	65°	28,876		
35°	242	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	1.6	41.7	75°	26,143		
45°	203	0° - 180°	854	100%	5	63	54	47	62	54	47	60	52	47	Beam Angle: 112.3° Field Angle: 163.9°			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							

**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)		
						pf											Mounting Height	Initial FC Center Beam	Beam Diameter		
0°		Zone	Lumens	% Fixture	pc	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				Average Luminance		
0°	305	0° - 30°	238	28%	0	119	119	119	116	116	116	111	111	111	111	6.0	8.5	17.9	0°	34,074	
5°	305	0° - 40°	386	45%	1	104	100	96	102	98	94	98	94	91	91	8.0	4.8	23.8	45°	32,125	
15°	296	0° - 60°	675	79%	2	91	84	78	89	82	77	85	80	75	75	10.0	3.0	29.8	55°	30,756	
25°	273	0° - 90°	854	100%	3	80	71	65	78	70	64	75	69	63	63	12.0	2.1	35.8	65°	28,876	
35°	242	90° - 180°	0	0	4	71	62	55	69	61	55	67	60	54	54	14.0	1.6	41.7	75°	26,143	
45°	203	0° - 180°	854	100%	5	63	54	47	62	54	47	60	52	47	47	Beam Angle: 112.3° Field Angle: 163.9°			85°	23,568	
55°	158				6	57	48	41	56	47	41	54	47	41	41						
65°	109				7	52	43	37	51	42	36	49	42	36	36						
75°	60				8	47	39	33	46	38	33	45	38	32	32						
85°	18				9	43	35	29	43	35	29	42	34	29	29						
90°	0				10	40	32	27	39	32	27	38	31	27	27						

**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)		
						pf											Mounting Height	Initial FC	Beam Diameter		
						pc												Center Beam			
0°		Zone	Lumens	% Fixture		pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				Average Luminance		
0°	426	0° - 30°	331	28%		0	119	119	119	116	116	116	111	111	111	6.0	11.8	16.9	0°	18,617	
5°	425	0° - 40°	538	45%		1	104	100	96	102	98	94	97	94	91	8.0	6.7	22.5	45°	16,934	
15°	410	0° - 60°	937	79%		2	91	84	78	89	83	77	85	80	75	10.0	4.3	28.2	55°	16,153	
25°	377	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°	332	90° - 180°	0	0%		4	71	62	55	69	61	55	67	60	54	14.0	2.2	39.5	75°	12,833	
45°	274	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	Beam Angle: 109.3° Field Angle: 161.5°					
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						





# Juno SlimForm™ LED with Selectable CCT

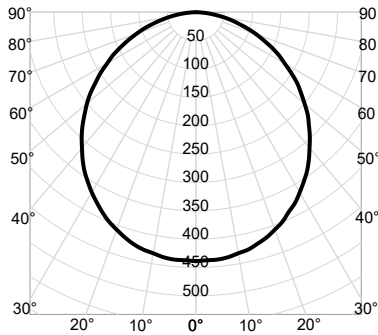
5" and 7" Round Downlight for JBox Installation



JSF

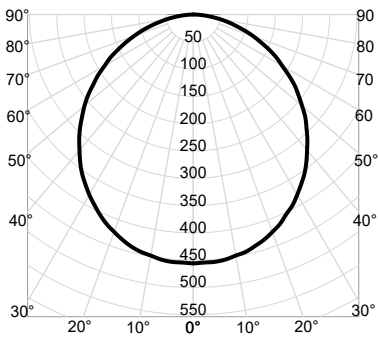
## PHOTOMETRICS

**JSF 7IN 10LM SSW5 - 30K** Input Watts: 12.3, Delivered Lumens: 1218, LPW: 99.0, S/MH: 1.24, Test No: ISF 23588P2



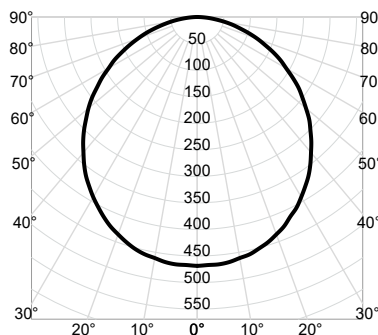
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)		
						pc	80%			70%			50%				Mounting Height	Initial FC Center Beam	Beam Diameter		
0°		Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				Average Luminance			
0°	439	0° - 30°	341	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° Field Angle: 161.5°				85°	10,329	
55°	218				6	57	48	42	56	47	41	54	47	41							
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 SSW5 - 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)		
						pf	80%			70%			50%			Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
0°		Zone	Lumens	% Fixture	pw	50%	30%	10%	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° Field Angle: 161.5°					85°	10,731
55°	227				6	57	48	42	56	47	41	54	47	41							
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 SSW5 - 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)	
						pf					20%						Mounting Height	Initial FC	Beam Diameter	
0°		Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%		Center Beam		Average Luminance		
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° Field Angle: 161.5°			85°	11,031	
55°	233				6	57	48	42	56	47	41	54	47	41						
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

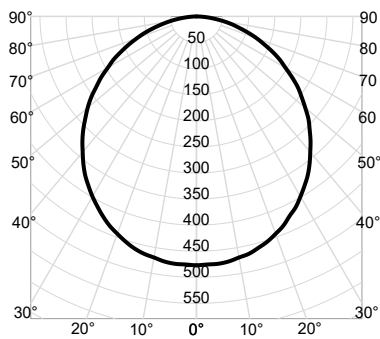
5" and 7" Round Downlight for JBox Installation



JSF

## PHOTOMETRICS

JSF 7IN 10LM SSW5 - 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)		
						pf													Mounting Height	Initial FC Center Beam	Beam Diameter		
						pc																Average Luminance	
0°		Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%									
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				Beam Angle: 109.3°					
65°	161				7	52	43	37	51	42	37	49	42	36				Field Angle: 161.5°					
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									



## 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](http://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.

Catalog Number
Notes
Type

### 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

RSA					
Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness <sup>1</sup>		Mounting <sup>2</sup>	
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")	<u>Tenon mounting</u>	
		4-5C	4 1/2" (.125")	PT Open top	
		4-5G	4 1/2" (.188")	T20 2-3/8" O.D. (2" NPS)	
		5C	5" (.125")	T25 2-7/8" O.D. (2-1/2" NPS)	
		5E	5" (.156")	T30 3-1/2" O.D. (3" NPS)	
		5G	5" (.188")	T35 4" O.D. (3-1/2" NPS)	
		6E	6" (.156")	<u>KAC/KAD/KSE/KSF/KVR/KVF Drill mounting<sup>3</sup></u>	
		6G	6" (.188")	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/RSX/AERIS™/OMERO™/HLA/KAX Drill mounting<sup>3</sup></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 mounting<sup>3</sup></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 mounting<sup>3</sup></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<sup>3,4</sup></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<sup>3,4</sup></u>	
				DM19MRT_ 1 at 90°	
				DM28MRT_ 2 at 180°	
				DM29MRT_ 2 at 90°	
				DM39MRT_ 3 at 90°	
				DM49MRT_ 4 at 90°	

Options		Finish <sup>10</sup>
L/AB	Less anchor bolts (Include when anchor bolts are not needed)	<u>Super durable paint colors</u>
VD	Vibration damper	
TP	Tamper resistant handhole cover fasteners	DDBXD Dark bronze
HAXy	Horizontal arm bracket (1 fixture) <sup>5,6</sup>	DBLXD Black
FDLxy	Festoon outlet less electrical <sup>5,7</sup>	DNAXD Natural aluminum
CPL12/xy	1/2" I.D. coupling <sup>5</sup>	DWHXD White
CPL34/xy	3/4" I.D. coupling <sup>5</sup>	DDBTXD Textured dark bronze
CPL1/xy	1" I.D. coupling <sup>5</sup>	DBLBXD Textured black
NPL12/xy	1/2" O.D. threaded nipple <sup>5</sup>	DNATXD Textured natural aluminum
NPL34/xy	3/4" O.D. threaded nipple <sup>5</sup>	DWHGXD Textured white
NPL1/xy	1" O.D. threaded nipple <sup>5</sup>	<u>Brushed finish</u>
EHHxy	Extra handhole <sup>5,8</sup>	BA Brushed aluminum
BAA	Buy America(n) Act Compliant <sup>9</sup>	<u>Class 1 architectural anodized</u>
UL	UL listed with label (Includes NEC compliant cover)	ABL Black
NEC	NEC 410.30 compliant gasketed handhole (Not UL Labeled)	ADB Dark bronze
FBC	Full base cover (spun aluminum)	ANA Natural
		<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:
1. Wall thickness will be signified with a "C", "E" or a "G" in nomenclature. "C" - 0.125 | "E" - 0.156 | "G" - 0.188.

2. 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.

3. Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.

4. Insert "1" or "2" to designate fixture size; e.g. DM19AST2.


5. 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

6. 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

7. 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.

8. 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.

9. Use when mill certifications are required. Some configurations may be excluded, consult factory.

10. Finish must be specified. Additional colors available; see Architectural Colors brochure linked [here](#) (Form No. 794.3).
- LITHONIA LIGHTING

OUTDOOR: One Lithonia Way Conyers, GA 30012 Phone: 800-705-SERV (7378) [www.lithonia.com](http://www.lithonia.com)

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POLE-RSA



# RSA Round Straight Aluminum Poles

TECHNICAL INFORMATION — EPA (FT <sup>2</sup> ) WITH 1.3 GUST									
Catalog number	Nominal mount ht. (ft) *	Pole shaft size (in x ft)	Wall thick (in)	EPA (ft <sup>2</sup> ) 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 <sup>2</sup> ) 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.

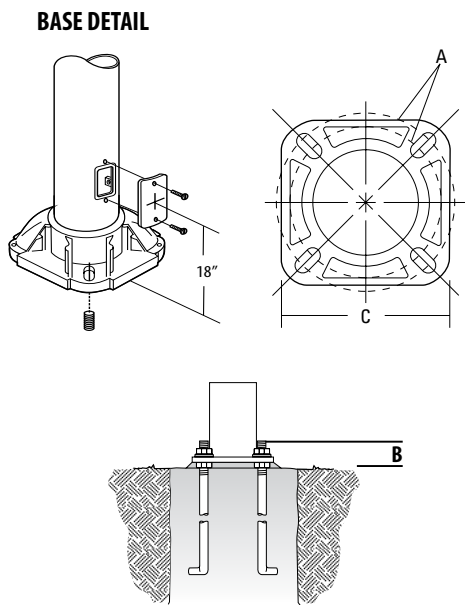
Variations from the sizes above are available upon inquiry at the factory. Satisfactory performance of poles is dependent upon the pole being properly attached to a supporting foundation of adequate design

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

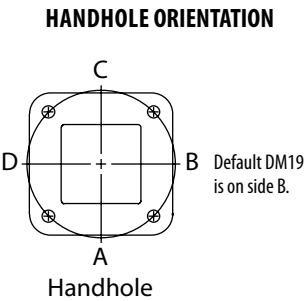
\*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.



# RSA Round Straight Aluminum Poles



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



- 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.



POLE-RSA

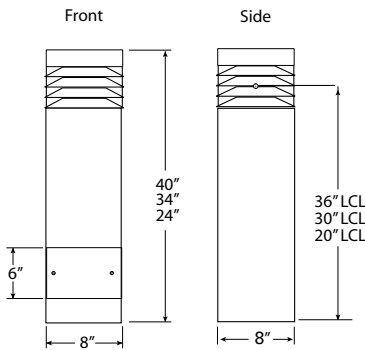




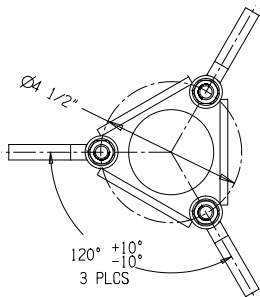
#### Specifications

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

#### DIMENSIONS



#### MOUNTING



## 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



#### LUMEN PACKAGES

	SYM
Delivered Lumens	1810
Watts	84
LPW	22

Note: Information Based on 50K



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

## ELECTRICAL LOAD

			Current (A)					
Light Engines	Drive Current (mA)	System Watts	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

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.

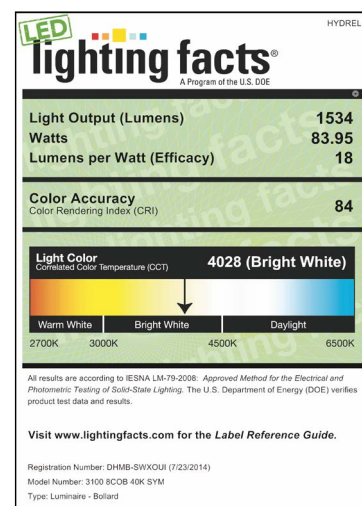
Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.91	0.85	0.75

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	1.05
10°C	50°F	1.03
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Notes:

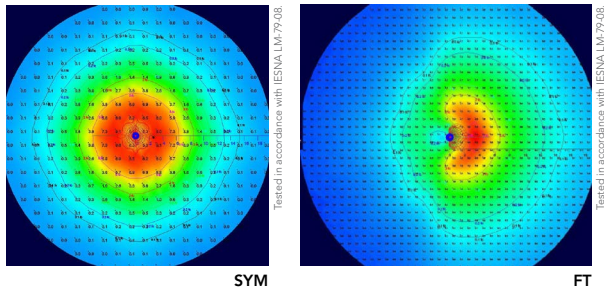
- 1 4COB for use with 20K and AMBLW only, 20K and AMBLW require 4COB.
- 2 Required with ELN or BLS.
- 3 FT not available with BLS.
- 4 BLS is not available with ELN, LDIM or IDIM.
- 5 ELN and BLS require 120 or 277 voltage, not MVOLT or 347.
- 6 Drive current will be 250.
- 7 ELN not available on 24" height.
- 8 Add zinc undercoat for harsh environments.
- 9 Louvers will be black unless otherwise specified (top only).





## PERFORMANCE DATA

Iscandela plots for 3100 COB. To see complete photometric reports or download .ies files for this product, visit [www.hydrel.com/](http://www.hydrel.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.

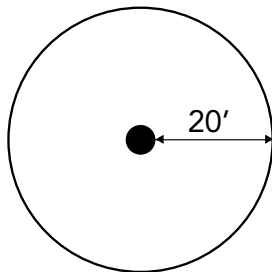
Light Engines	Distribution	Drive Current	System Watt	Lumens	LPW	B	U	G
3000K	SYM	250*	72	1300	18	1	2	1
		300	84	1525	18	1	2	1
4000K	SYM	250*	72	1320	18	1	2	1
		300	84	1535	18	1	2	1
5000K	SYM	250*	72	1535	21	1	2	1
		300	84	1810	22	2	2	1
2000K	SYM	1050	72	900	13	1	2	1

\*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](http://www.acuitybrands.com/resources/buy-american) for additional information.

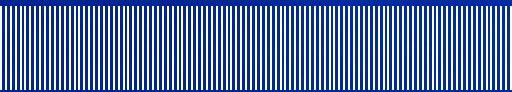
**WARRANTY:** 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://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<sup>TM</sup> LIGHTED RAILING SYSTEM PRODUCT DATA



**VIVA RAILINGS**  
LEADERS IN ARCHITECTURAL RAILING SYSTEMS

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.

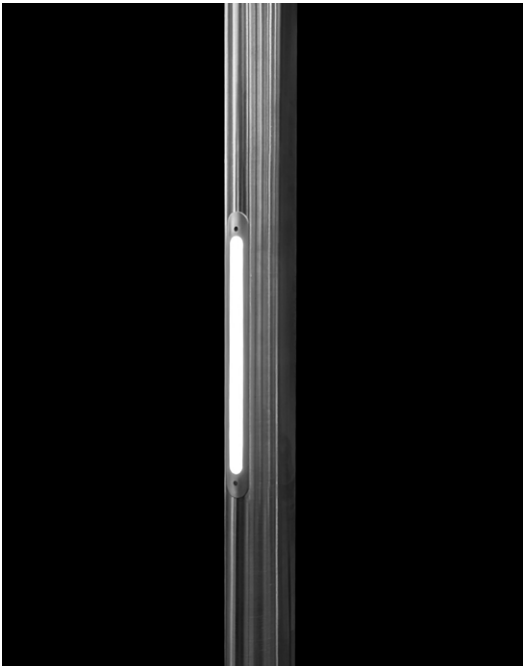
LINEAR



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 <sup>2</sup> 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) <sup>2</sup>	Unstained	
iRAIL PODS	Ø1-1/2" Stainless Steel (304 or 316)	#6 Satin	Color: 3000K Warm White or 4000K Cool White <sup>2</sup> 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	
	POST	FINISH	SPEC
iRAIL CAPSULE	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.

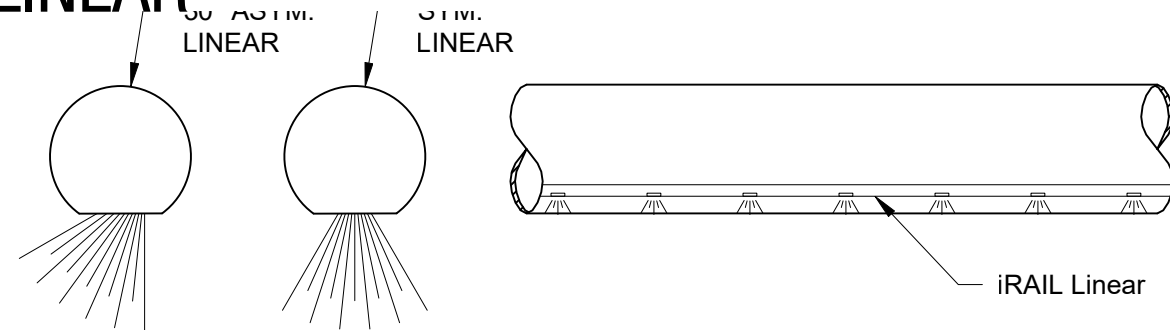
2. Other species available upon request





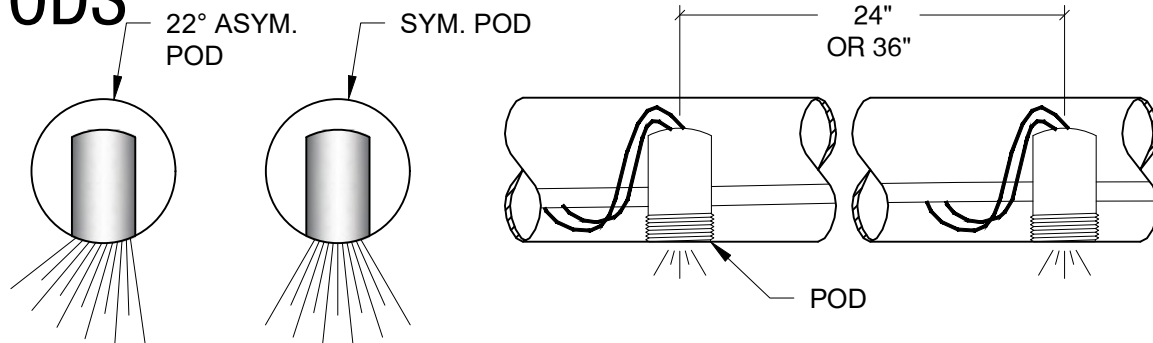
## LIGHTED TOPRAIL / HANDRAIL

### LINEAR



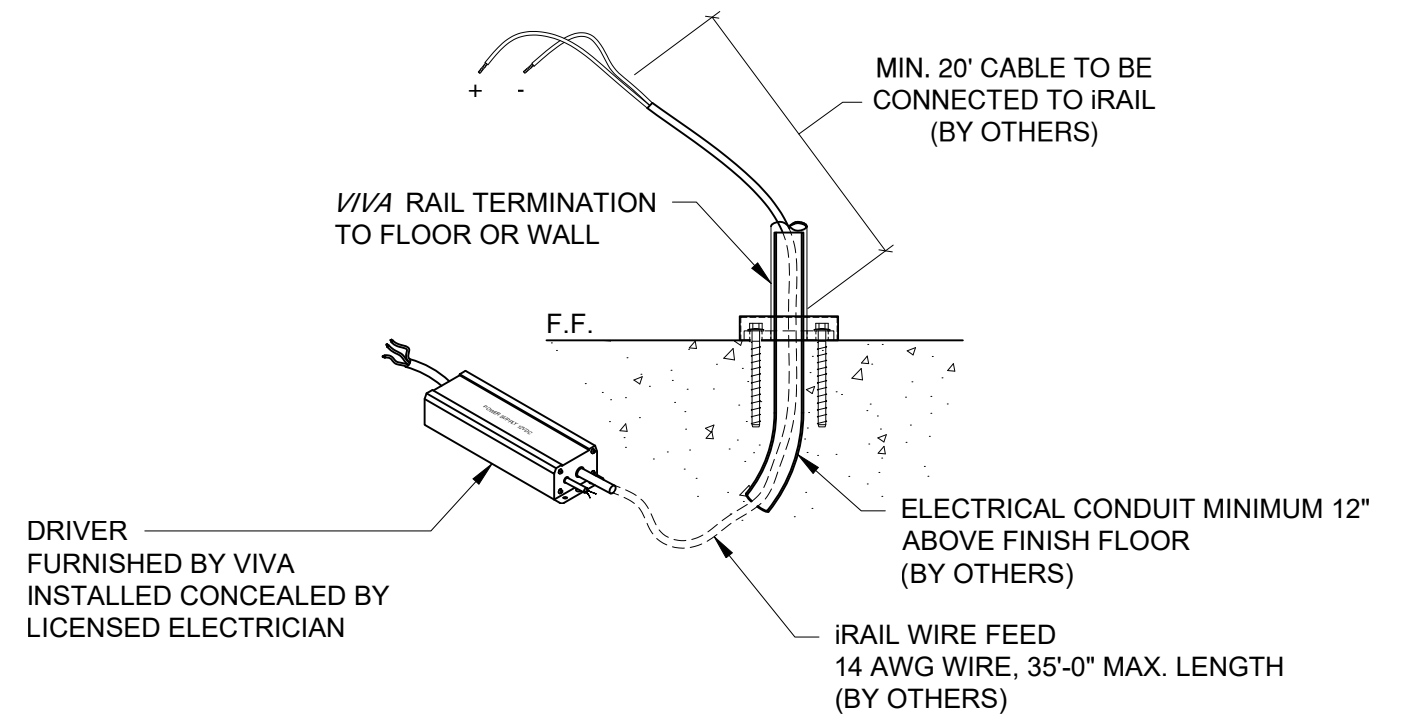
iRAIL LINEAR ORIENTATION OPTIONS

### PODS



iRAIL POD ORIENTATION OPTIONS

iRAIL POD SPACING OPTIONS

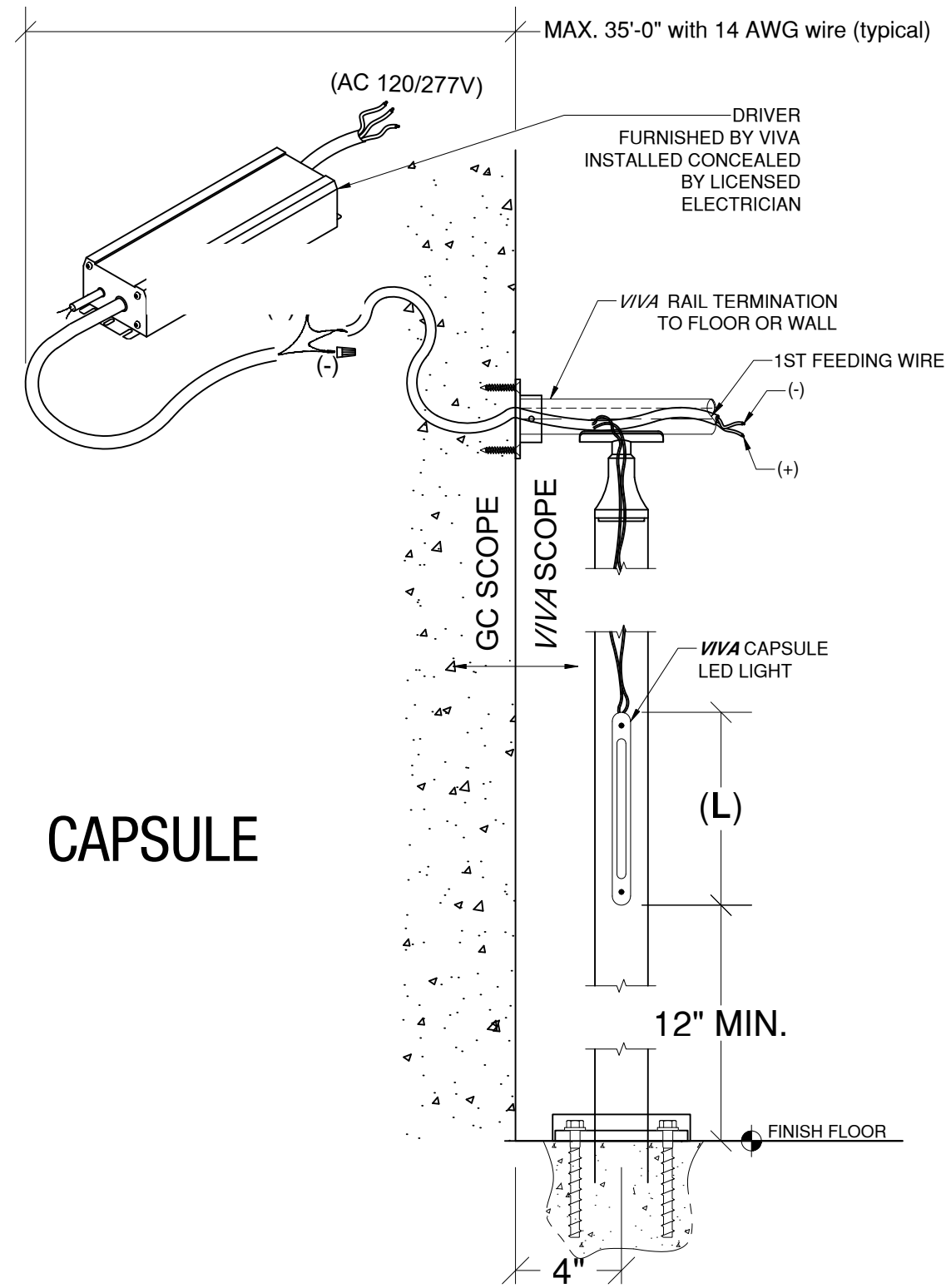


PROVIDE ONE PAIR OF WIRES 14 GA (BLACK-RED) FOR EVERY iRAIL RUN. EVERY iRAIL RUN COVERS:

- 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.

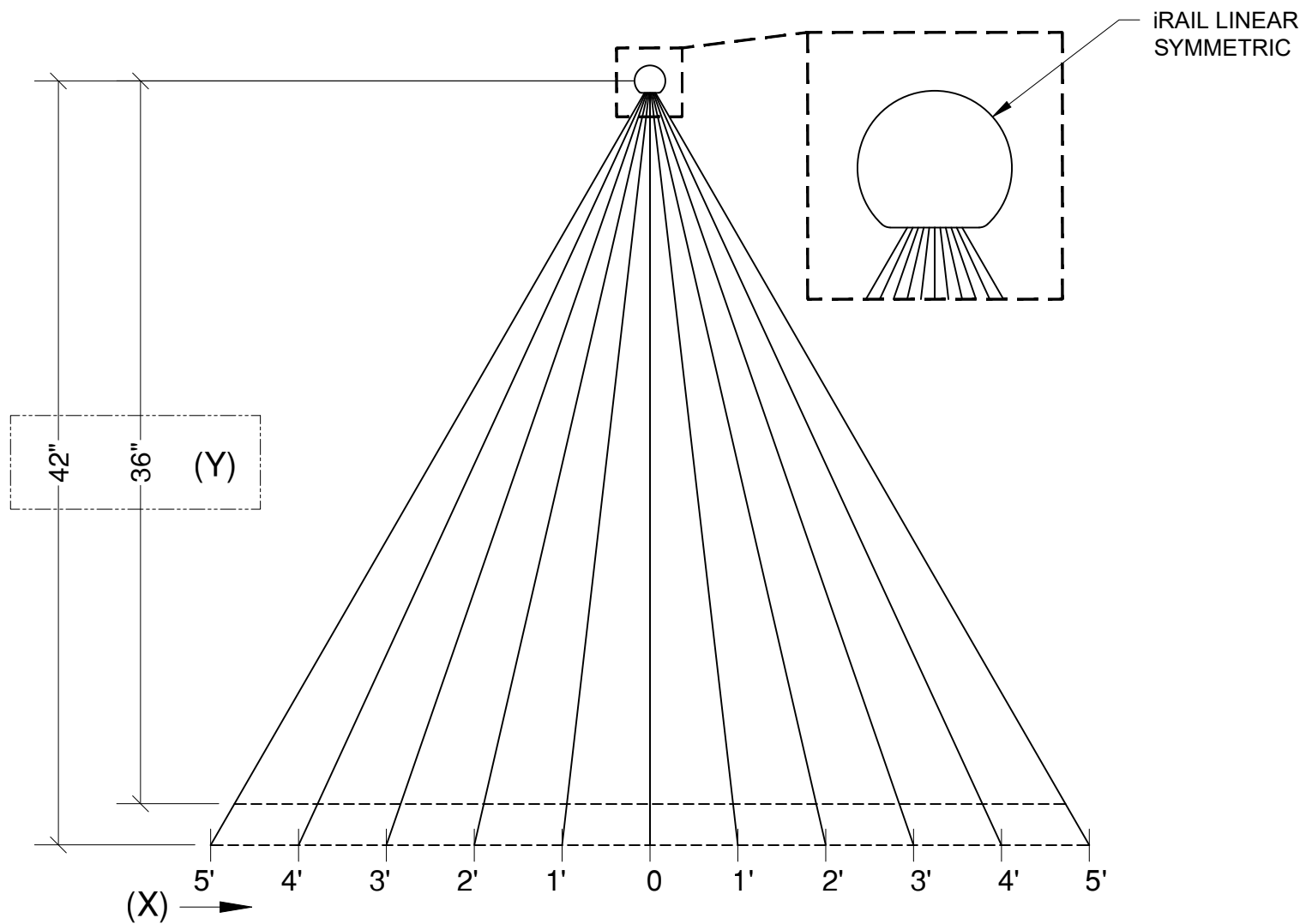
DRIVER SPECIFICATION			
INPUT	OUTPUT	POWER (WATT)	DIMENSIONS LxWxH" (mm)
100~277 VAC 1.6~0.6 A	24 VDC	100 W	8.25x2.5X0.8"

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.

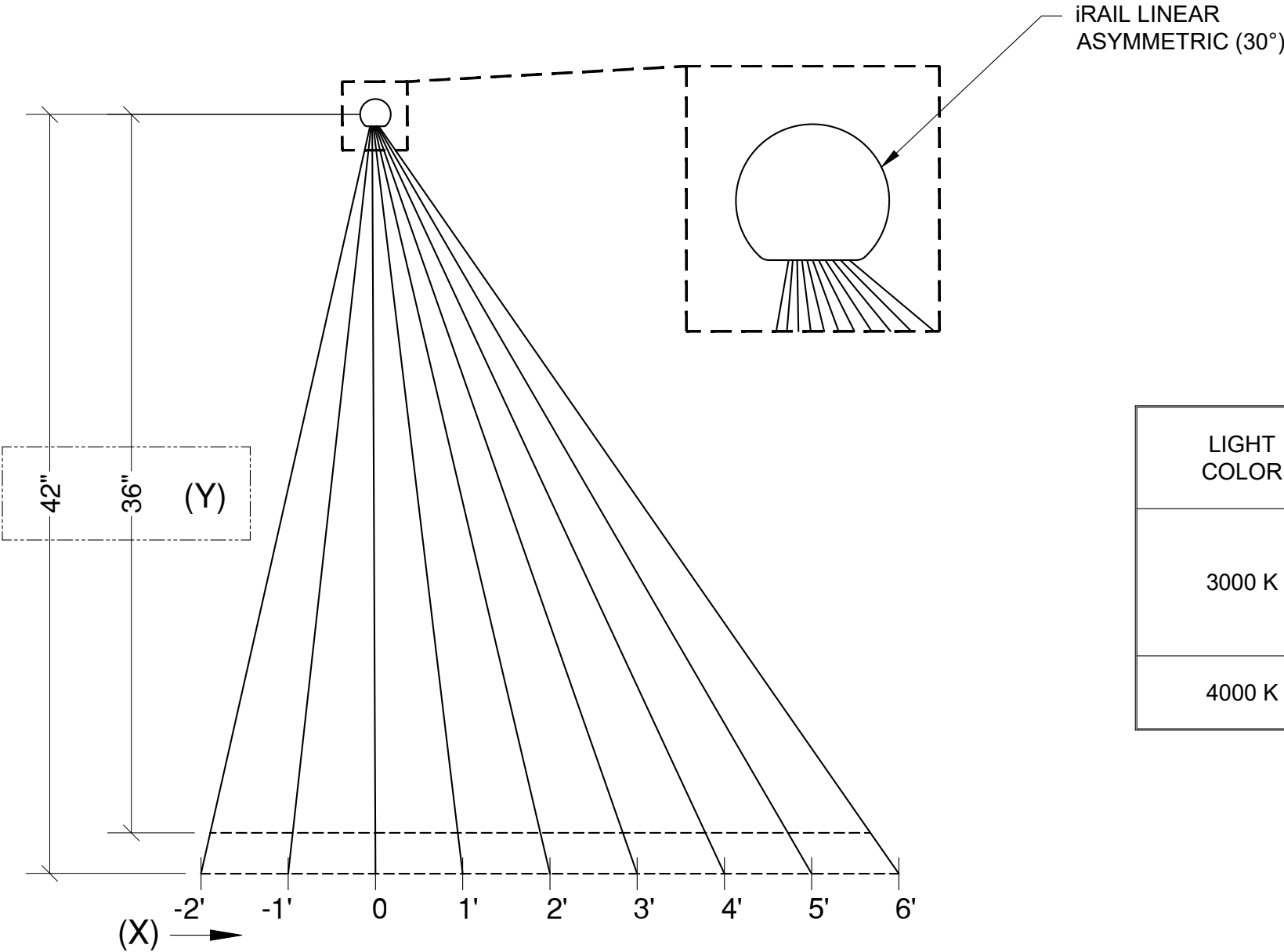
LIGHT COLOR	INTENSITY (OUTPUT)	POWER	X \ Y		0'	1'	2'	3'	4'	5'
3000 K	MEDIUM 185 lumens/ft	3 W/ft	36"		44.1	30.3	15.6	7.7	4.1	2.3
			42"		38.3	28.7	16.2	8.3	4.9	2.8
	HIGH 250 lumens/ft	5 W/ft	36"		59.5	41.2	20.8	10.3	5.5	3.0
			42"		52.3	39.3	21.9	11.4	6.6	3.8
4000 K	MEDIUM 185 lumens/ft	3 W/ft	36"		44.5	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.

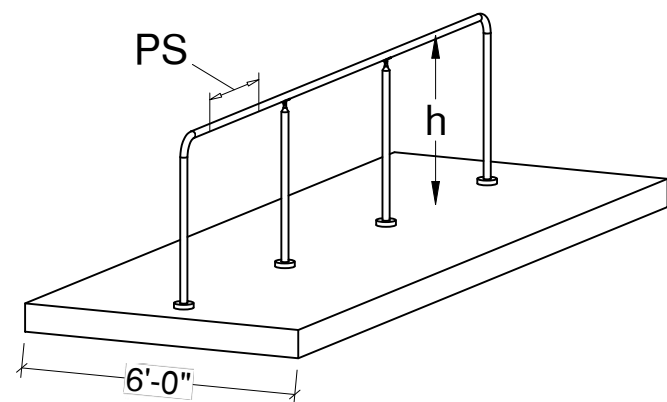
LIGHT COLOR	INTENSITY (OUTPUT)	POWER	X \ Y		-2'	-1'	0'	1'	2'	3'	4'	5'
3000 K	MEDIUM 185 lumens/ft	3 W/ft	36"		7.3	18	37.1	53.1	43.9	26.1	14.9	9.1
			42"		8.0	16.8	30.6	43.3	40.8	27.8	17.2	10.1
	HIGH 250 lumens/ft	5 W/ft	36"		8.0	17.7	38.4	57.3	46.2	28.3	15.6	9.3
			42"		8.4	16.8	31.7	46.9	42.7	30	18.3	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

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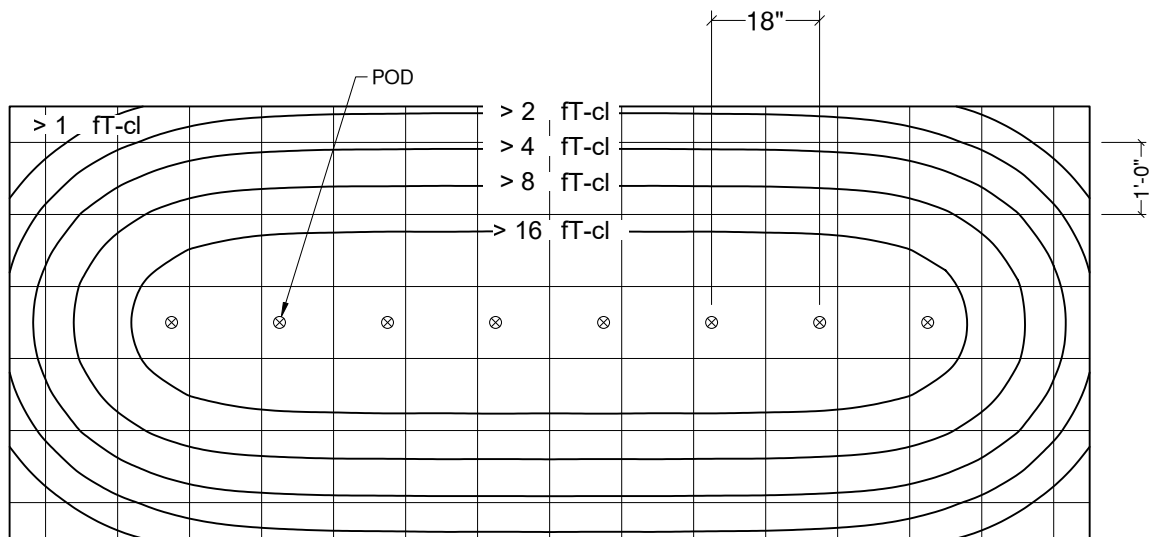




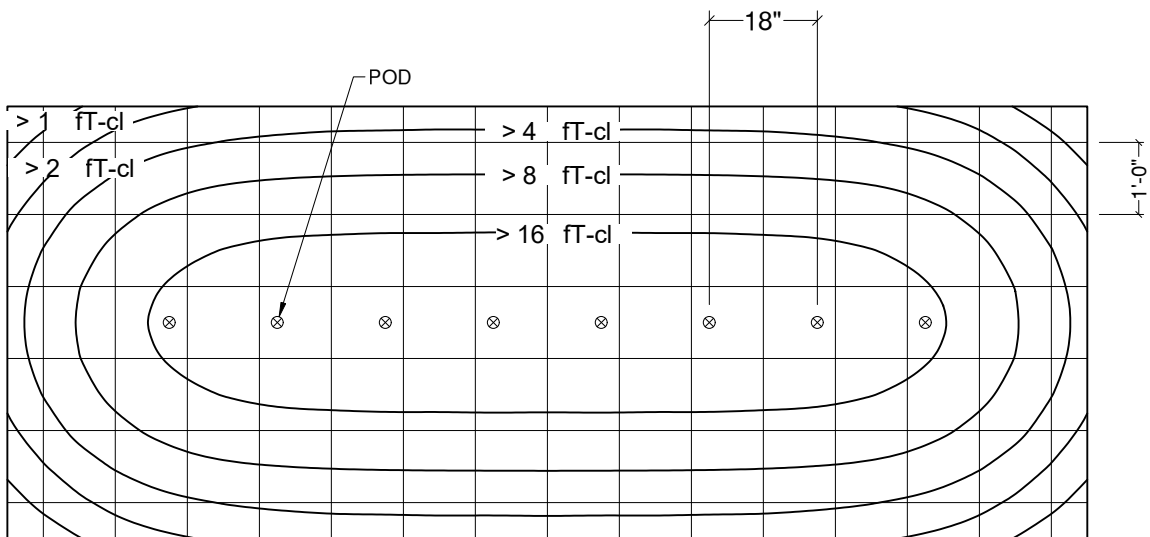
# POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 18")



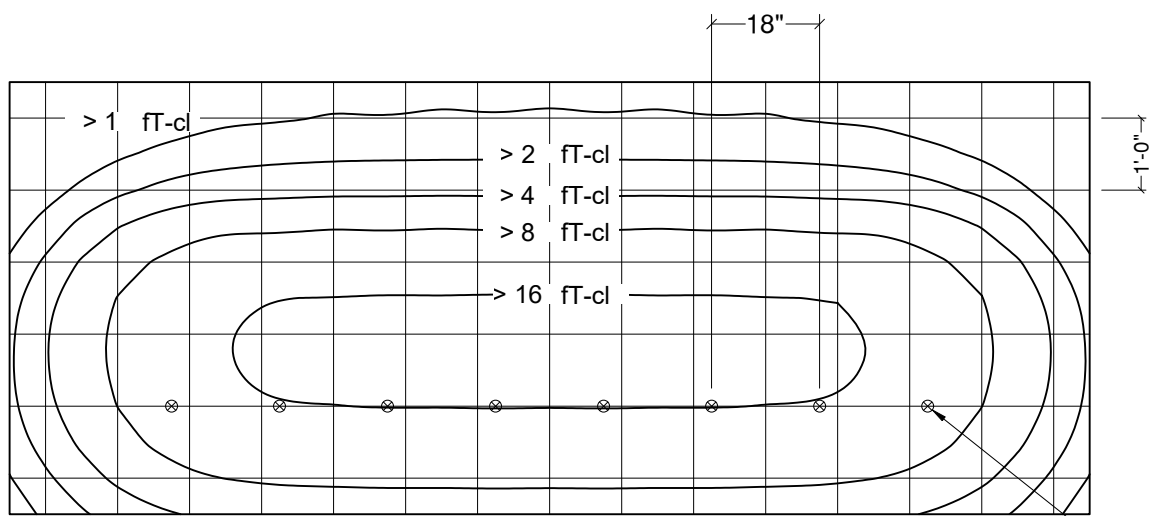
h: Illuminated Rail Height  
PS(Pod Spacing) = 18"



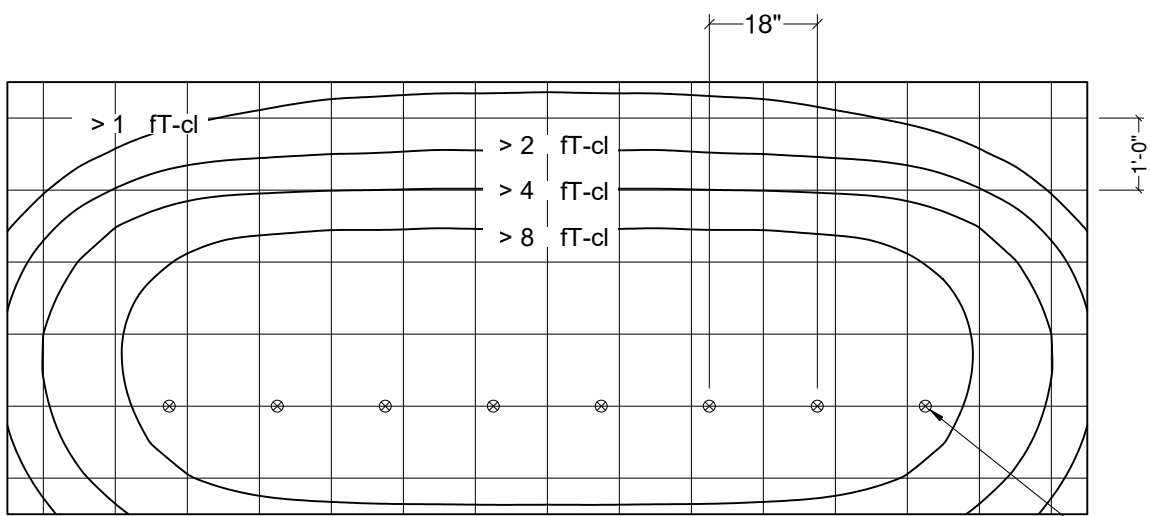
PLAN VIEW, h=36", PS=18", SYMMETRIC PODS  
FC: MAX=19.8, MIN=0.2, AVE.=6.1



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



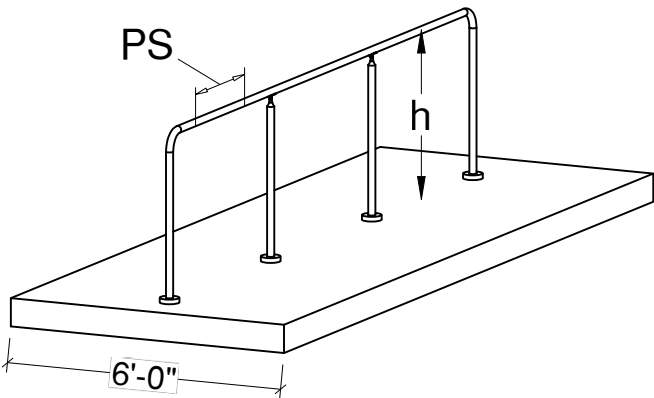
PLAN VIEW, h=42", PS=18", ASYMMETRIC PODS  
FC: MAX=13.5, MIN=0.1, AVE.=5.0

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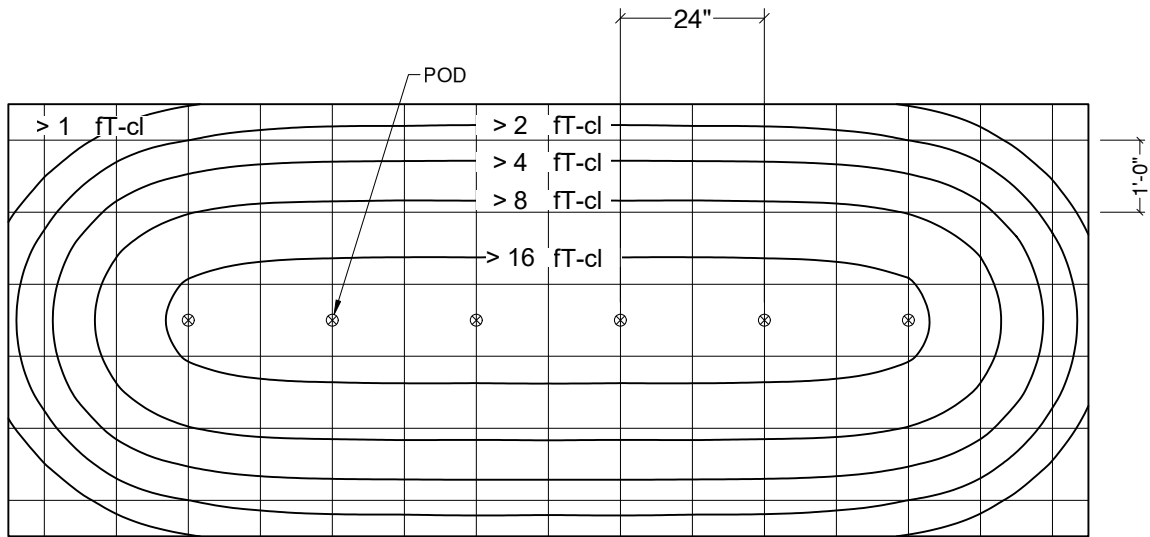




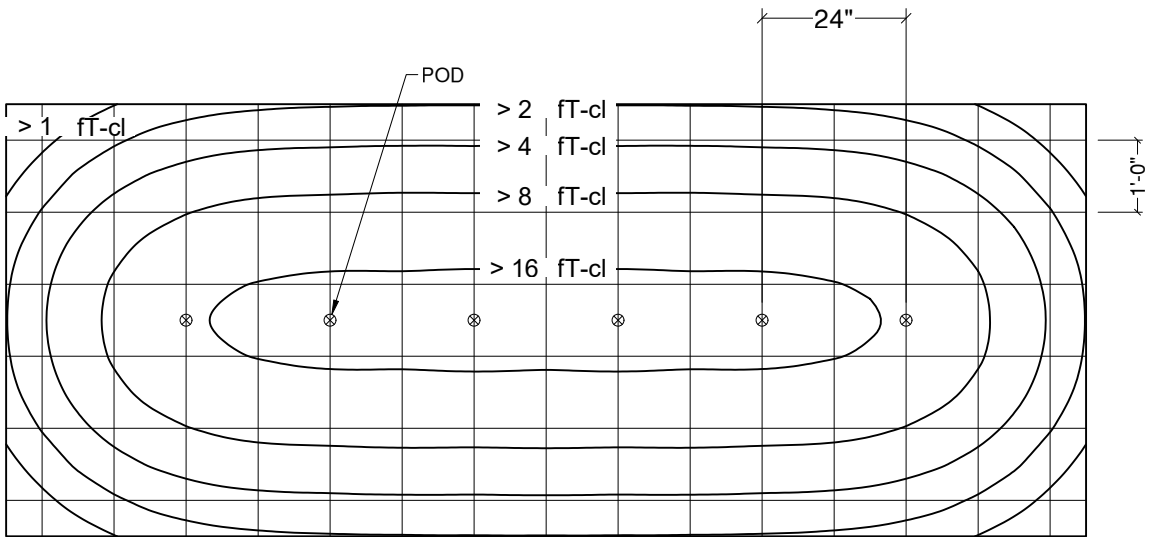
# POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 24")



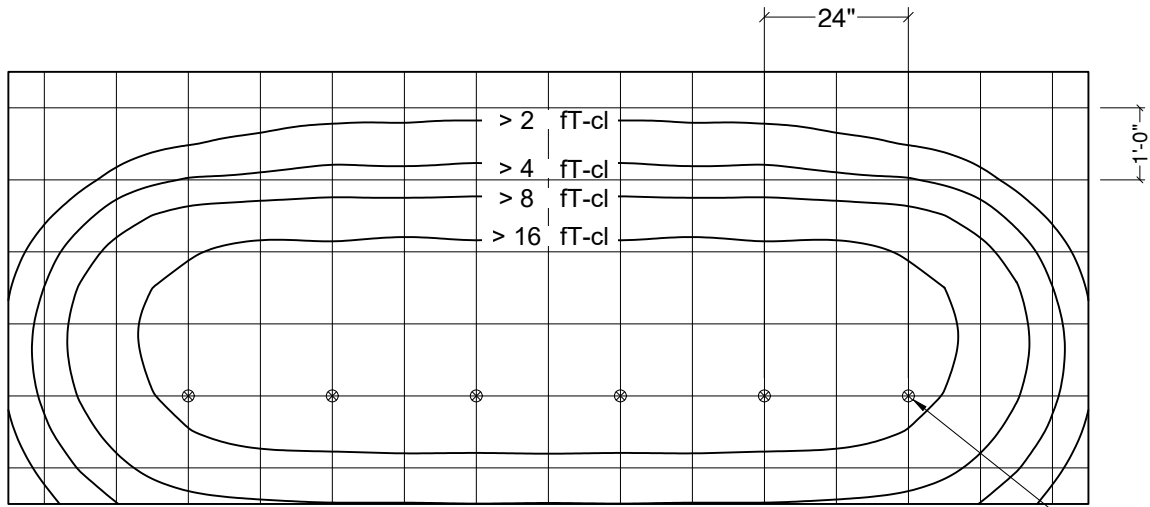
h: Illuminated Rail Height  
PS(Pod Spacing) = 24"



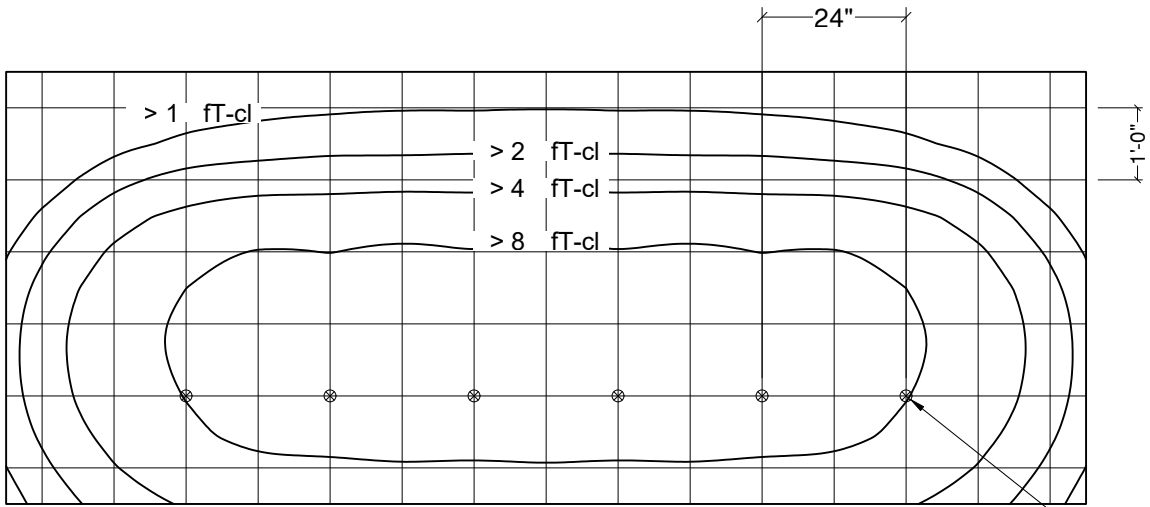
PLAN VIEW, h=36", PS=24", SYMMETRIC PODS  
FC: MAX=14.9, MIN=0.1, AVE.=4.6



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



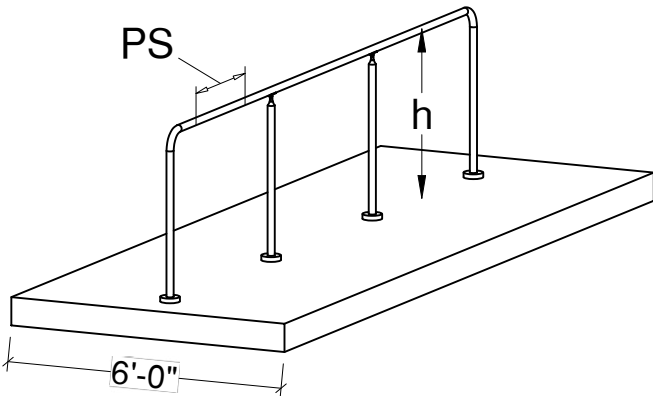
PLAN VIEW, h=42", PS=24", ASYMMETRIC PODS  
FC: MAX=10.1, MIN=0.1, AVE.=3.7

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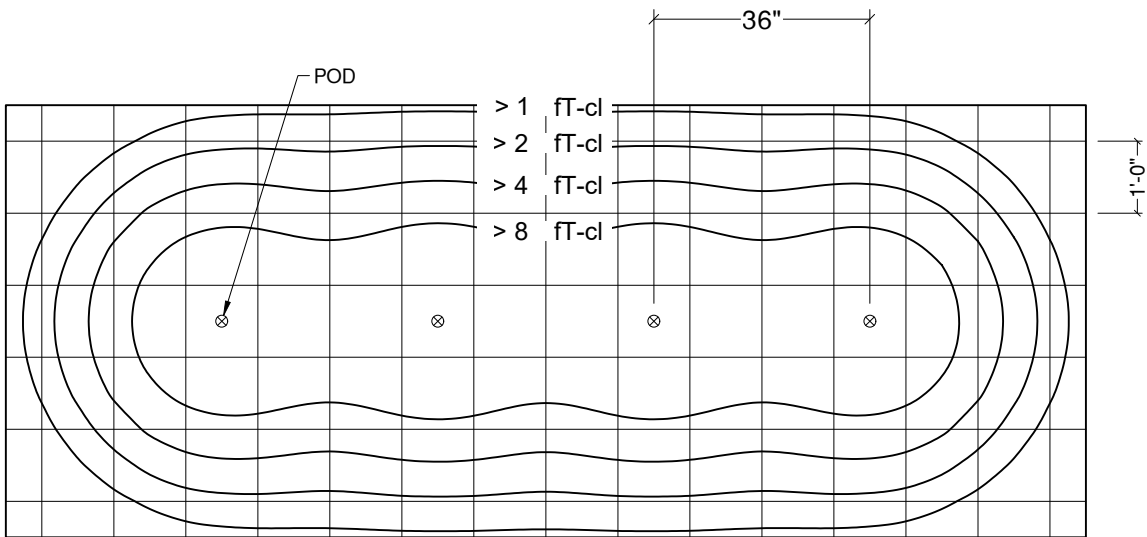




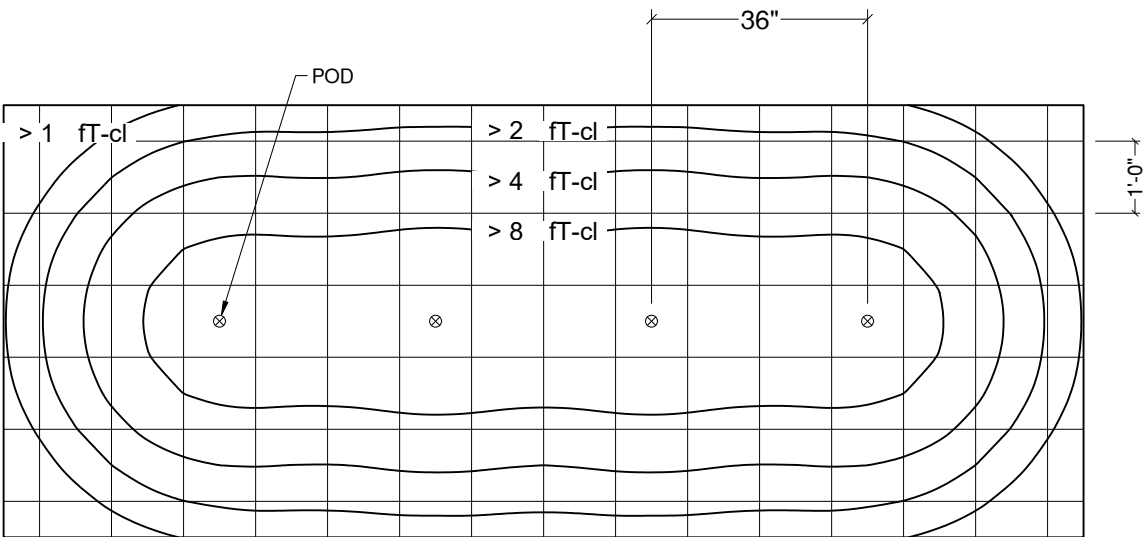
# POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 36")



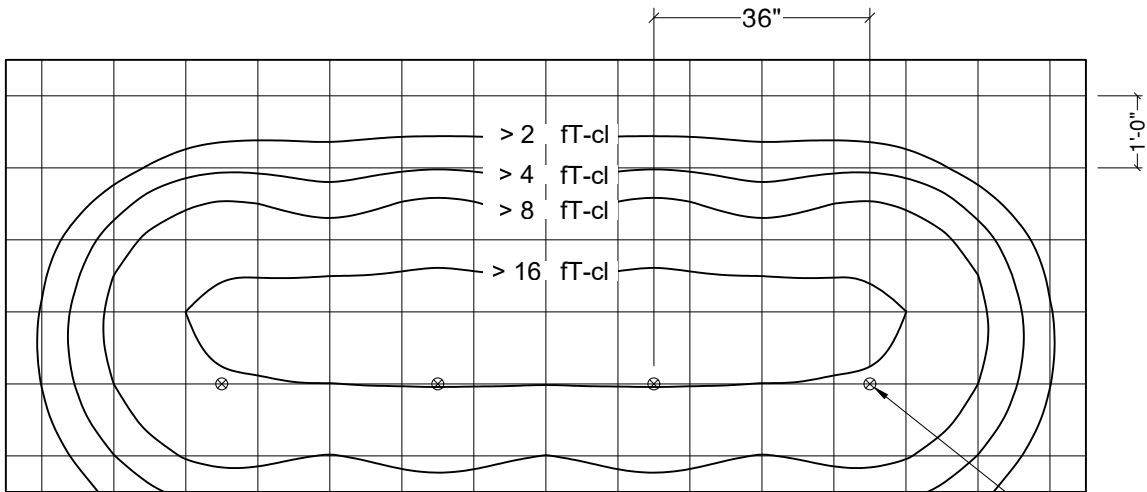
h: Illuminated Rail Height  
PS(Pod Spacing) = 36"



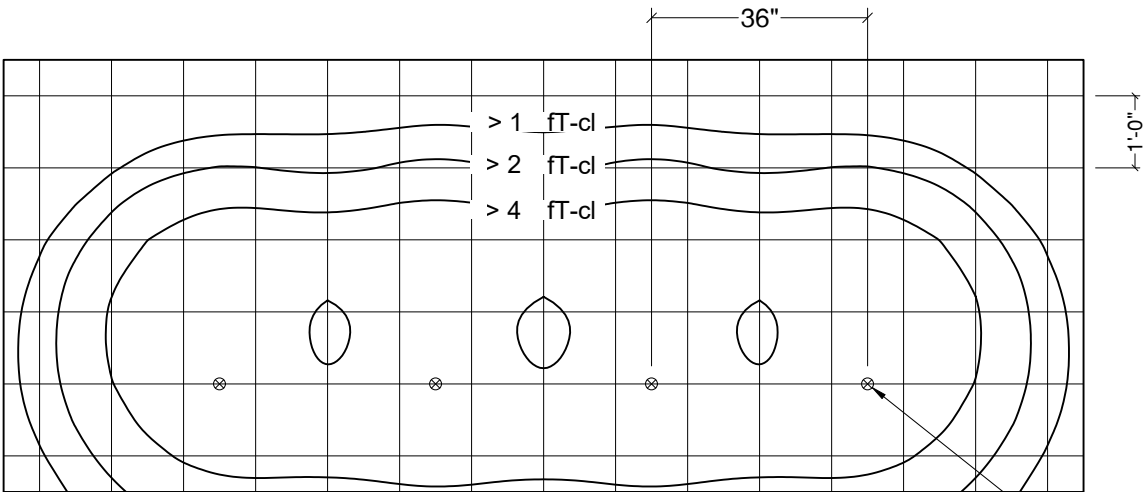
PLAN VIEW, h=36", PS=36", SYMMETRIC PODS  
FC: MAX=10.9, MIN=0.1, AVE.=3.0



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



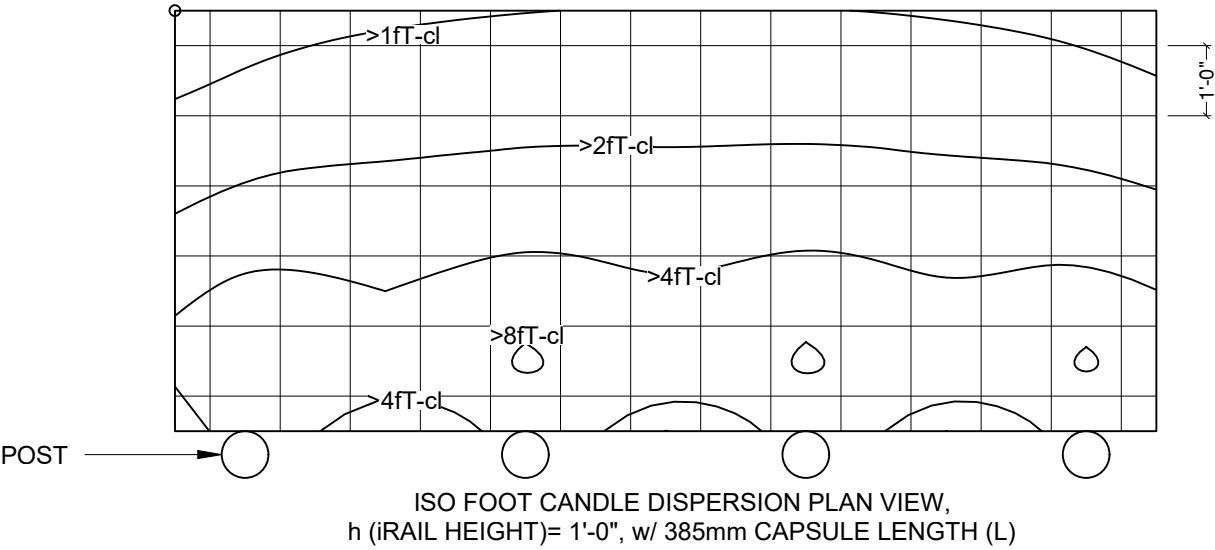
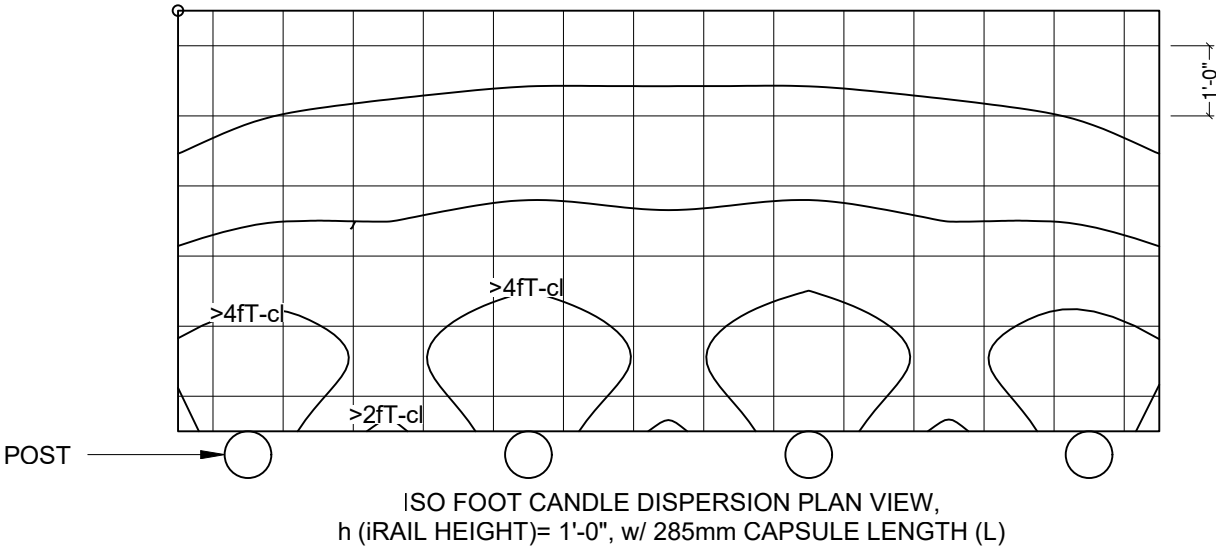
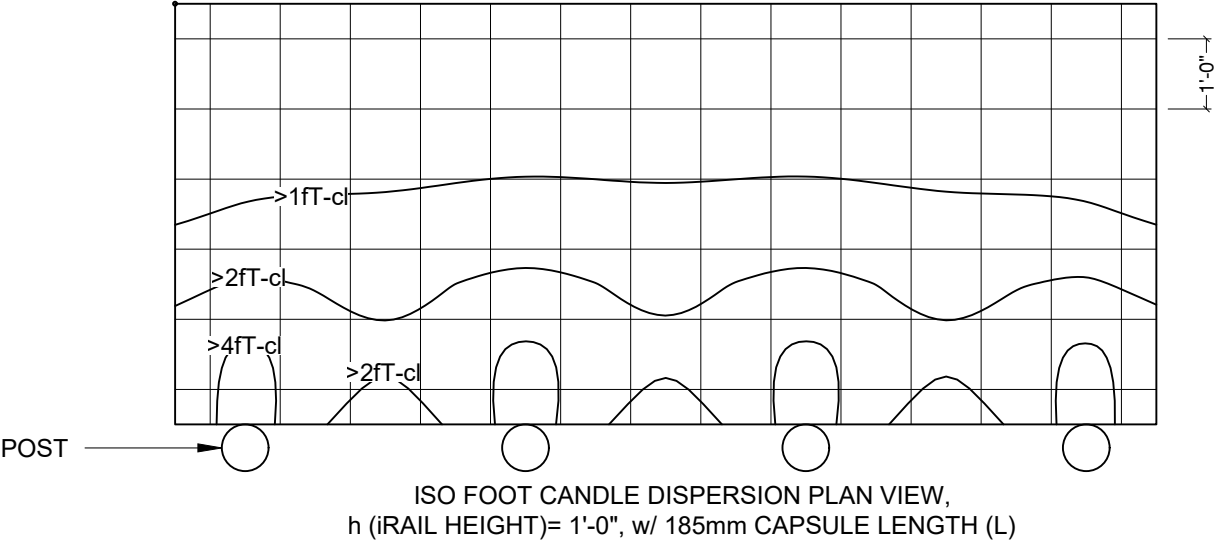
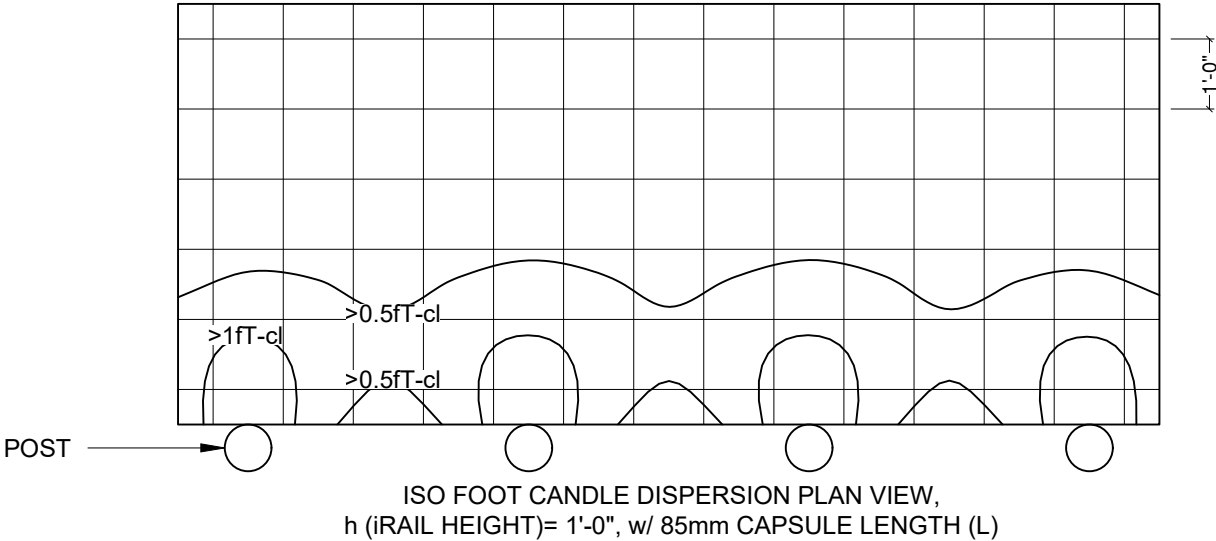
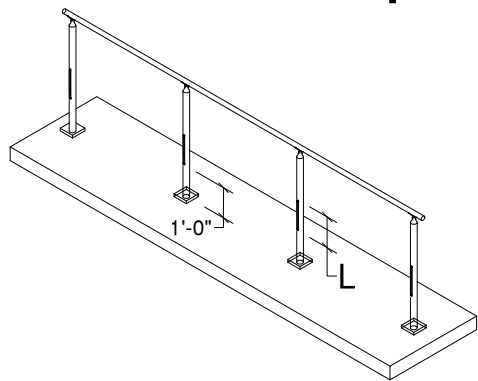
PLAN VIEW, h=42", PS=36", ASYMMETRIC PODS  
FC: MAX=6.8, MIN=0.1, AVE.=2.5

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CAPSULE Dispersion Diagram

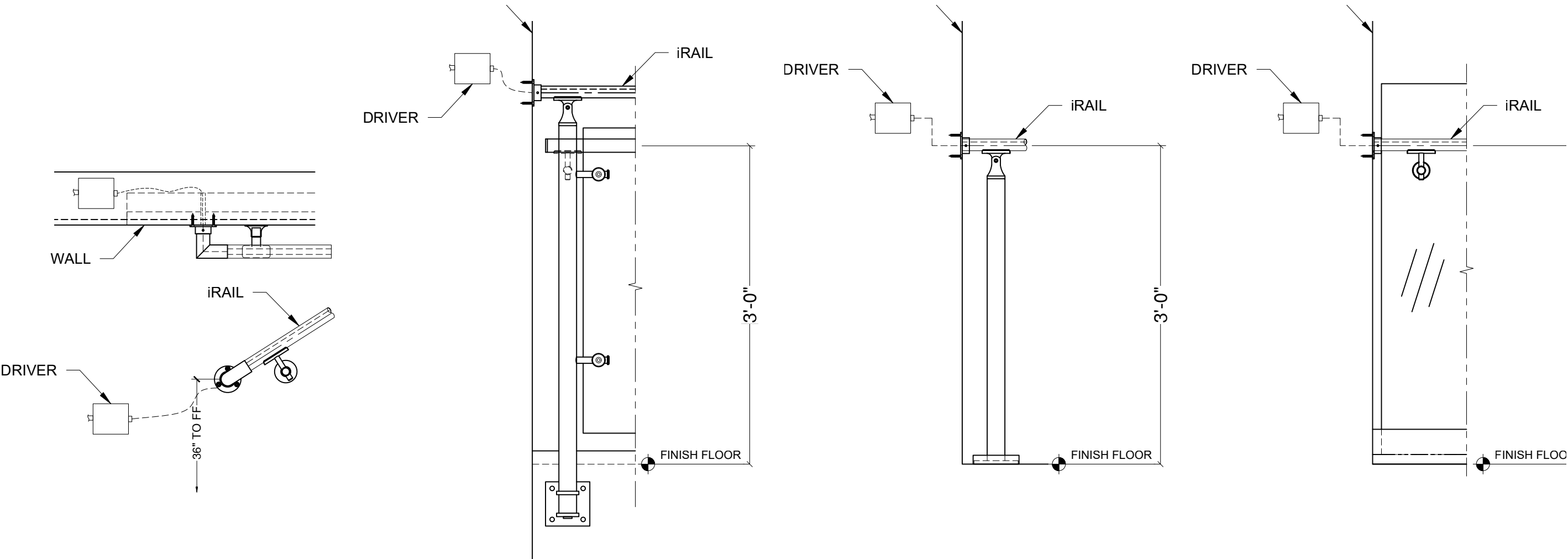


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WIRE FEED OPTION



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.

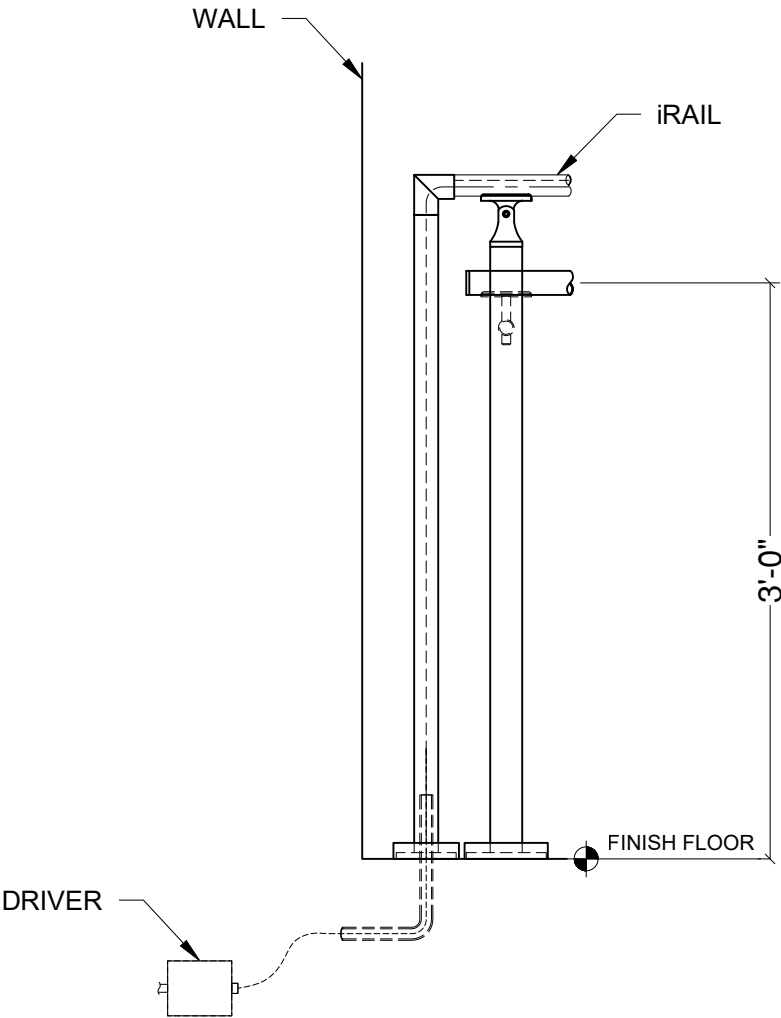
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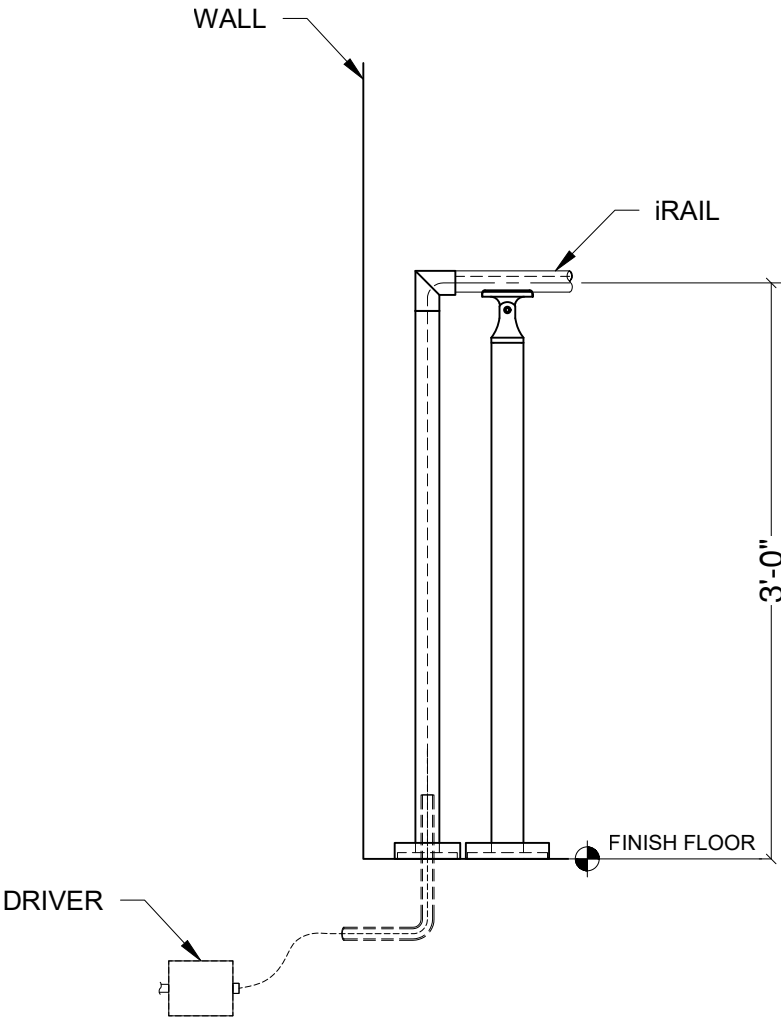


# iRAIL LED SYSTEM

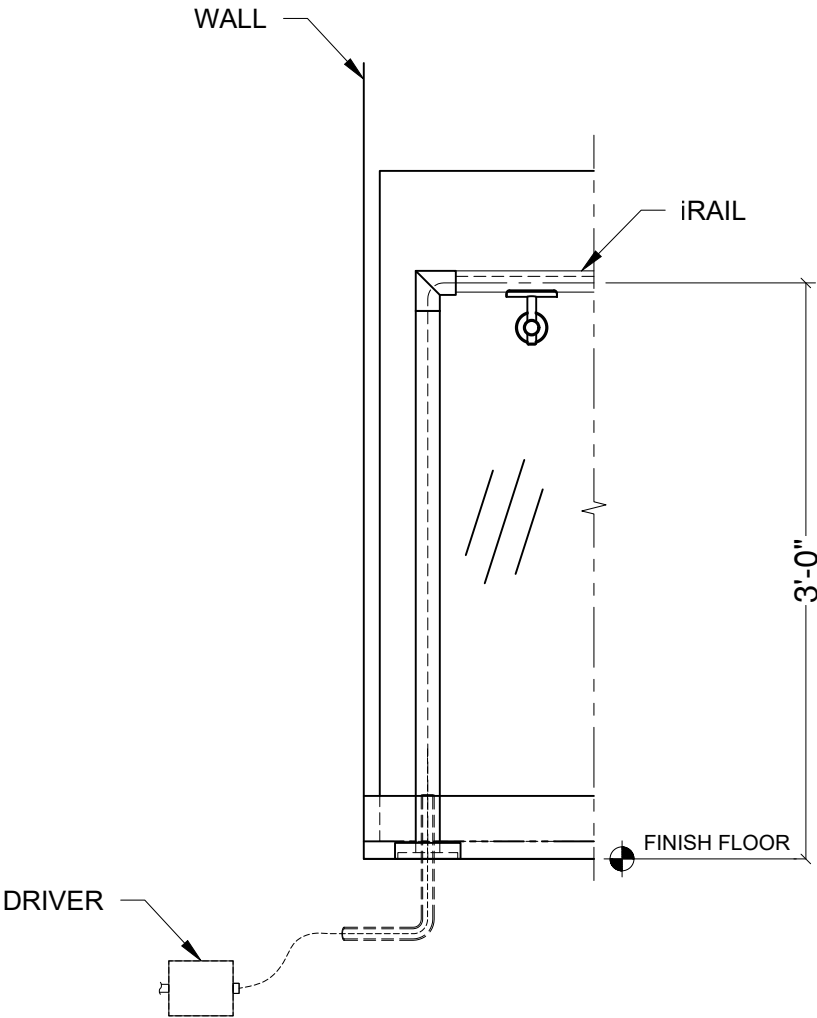
## WIRE FEED OPTION



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.

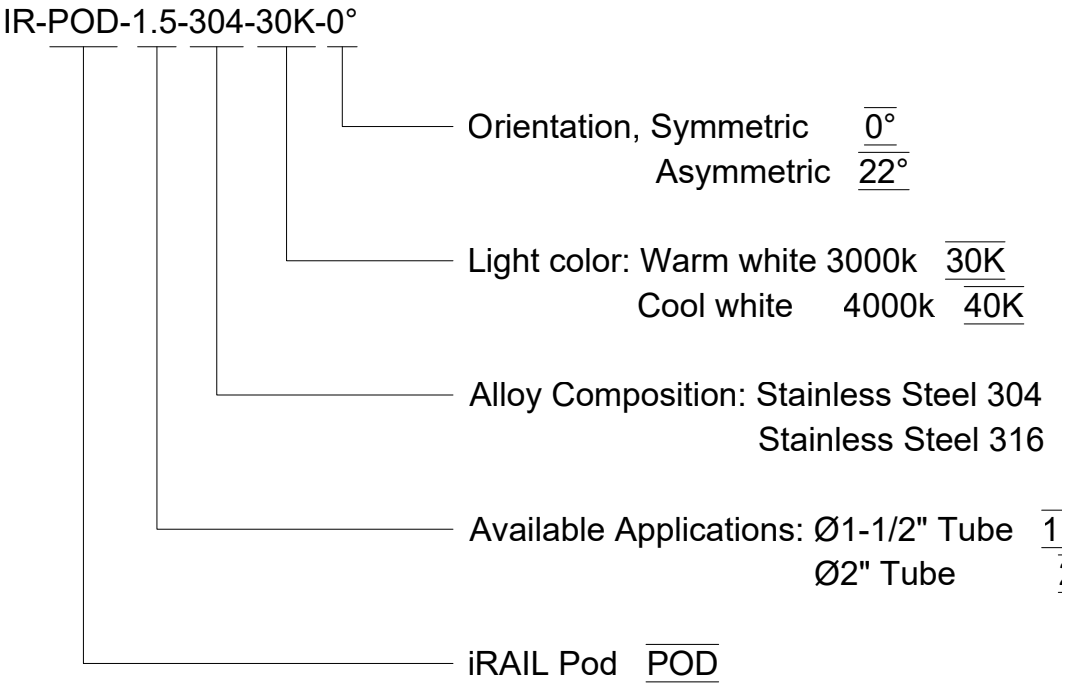
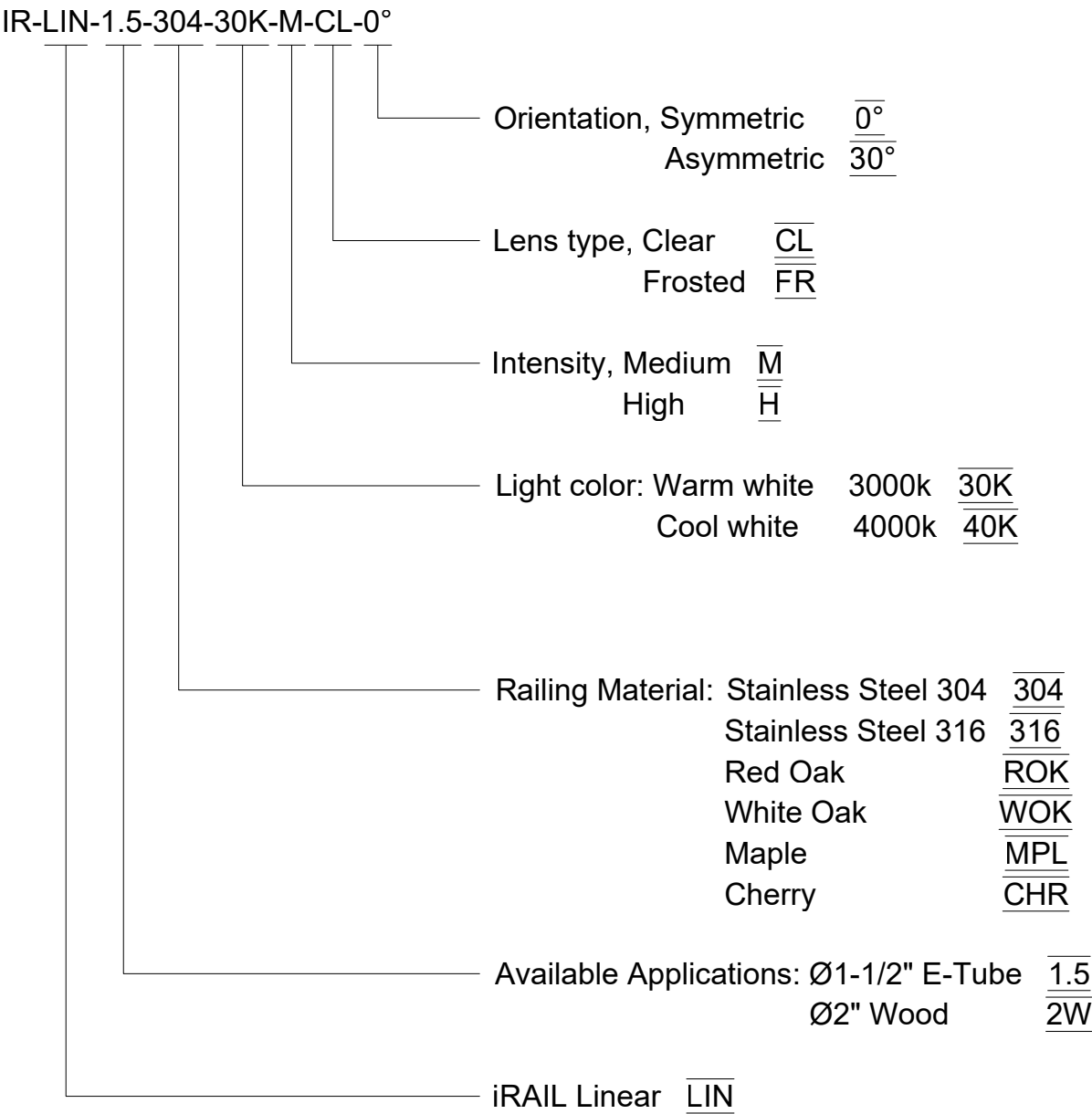
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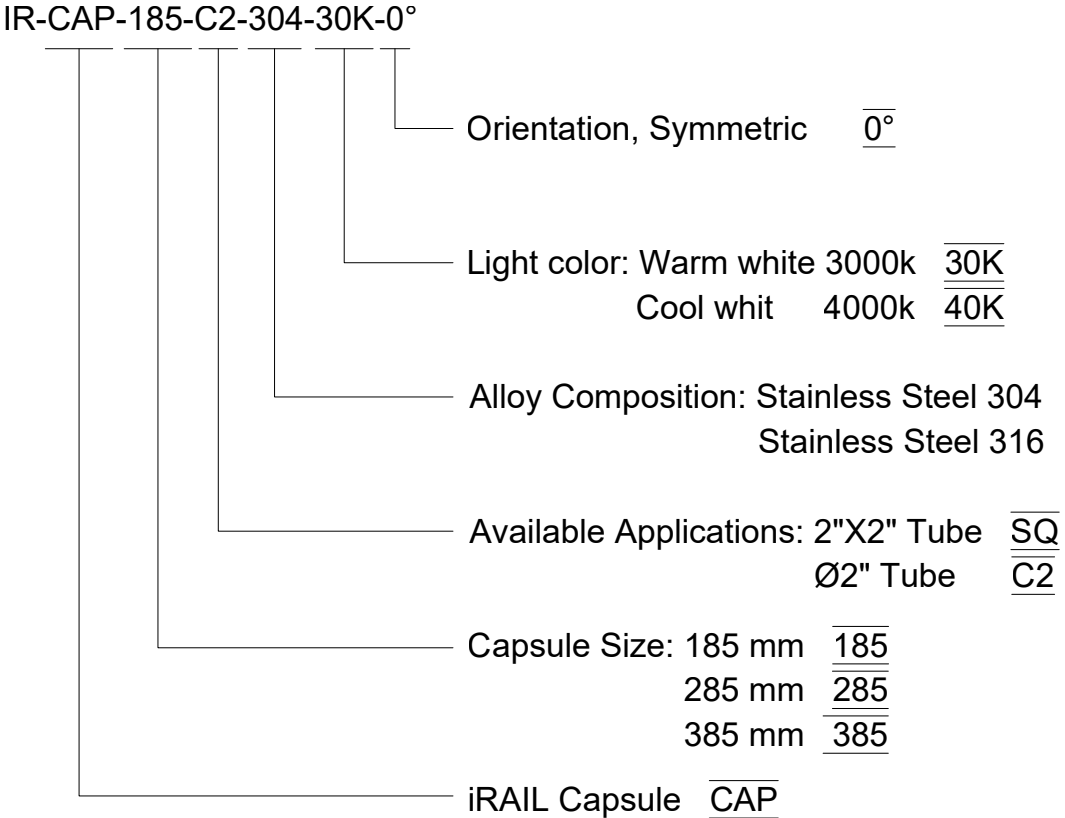


ORDER CODE

iRAIL LINEAR ORDER CODE:



iRAIL CAPSULE ORDER CODE:



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# iRAIL LIGHTED RAILING SYSTEM SMU MOODY HALL

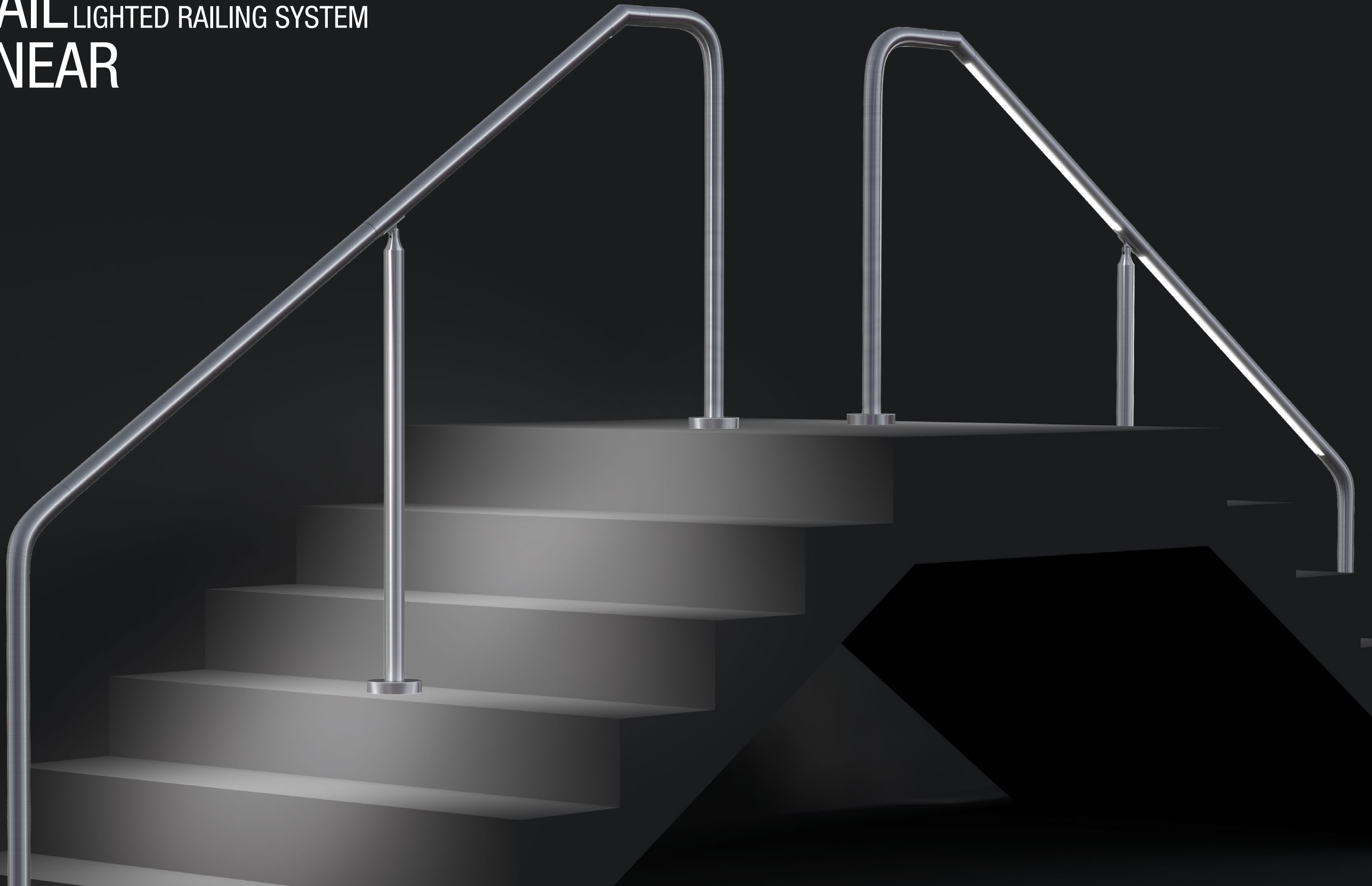


SMU MOODY HALL - DALLAS, TX  
General Contractor: The Beck Group  
Architect: Smithgroup Inc



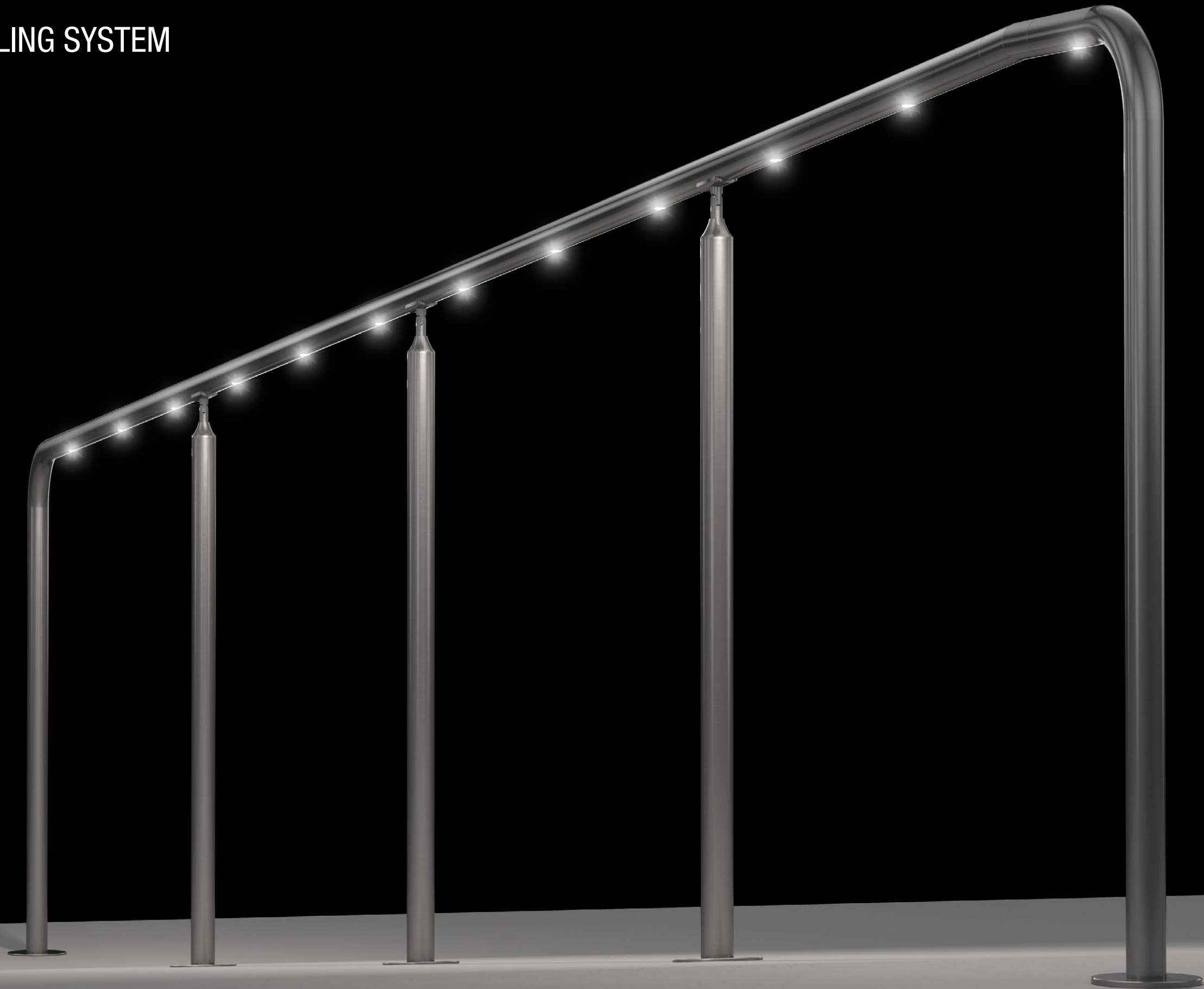


# iRAIL LIGHTED RAILING SYSTEM LINEAR





# 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

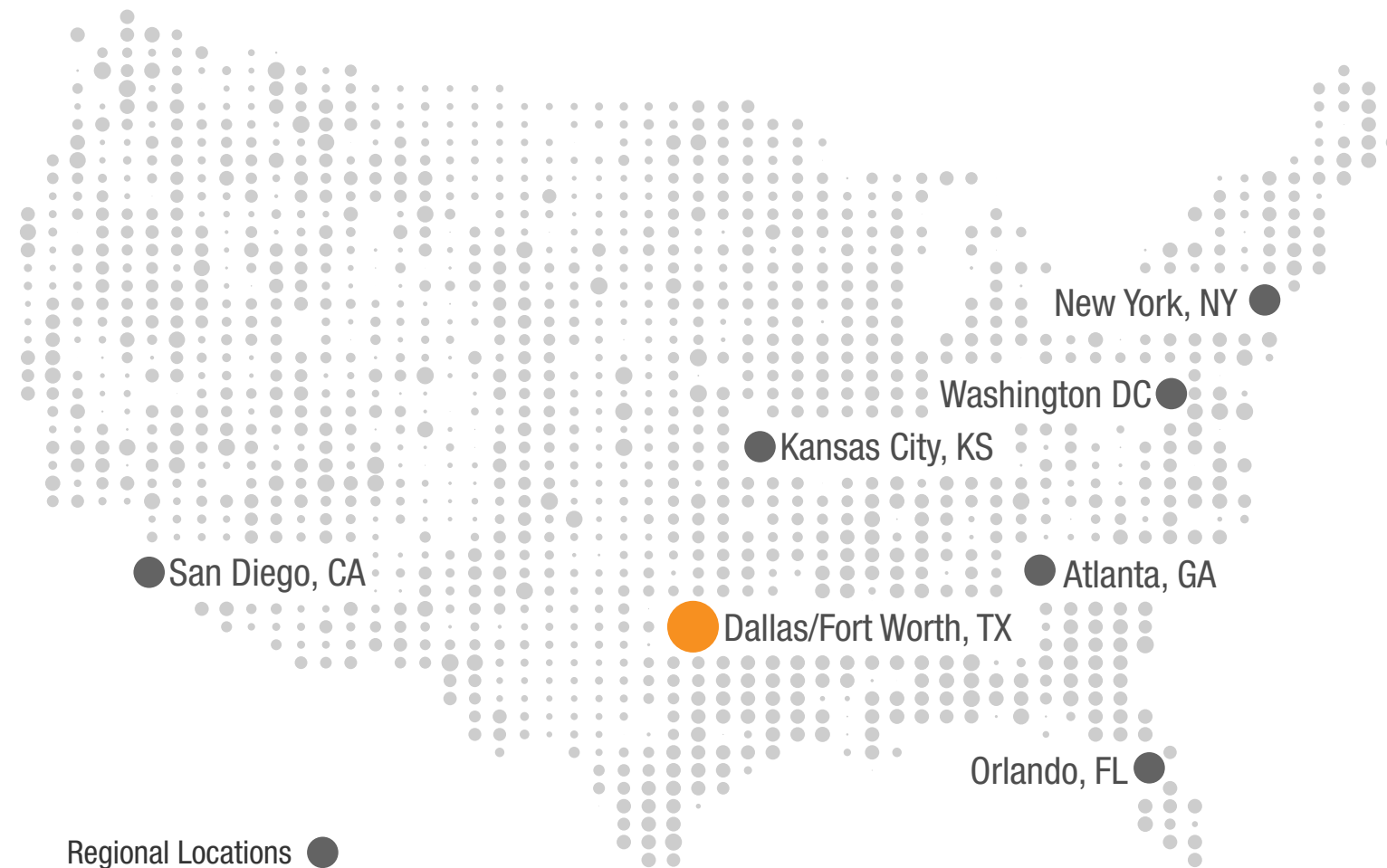


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**#211**



ICC-ES 4405 Certified  
**SHOE™**  
Structural Glass Railing System



LEED  
Material & Resources Credits 4.1 and 4.2



The American Institute of Architects



The California Contractors State License  
Board Certified





# WST LED

## Architectural Wall Sconce



Catalog  
Number

Notes

Type

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

## Specifications

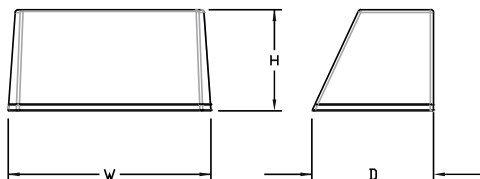
### Luminaire

**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)



A+ Capable options indicated  
by this color background.

## 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.

## 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 P2 3,000 Lumen package P3 6,000 Lumen package	27K 2700 K 30K 3000 K 40K 4000 K 50K 5000 K	VF Visual comfort forward throw VW Visual comfort wide	MVOLT <sup>1</sup> 277 <sup>2</sup> 120 <sup>2</sup> 347 <sup>2</sup> 208 <sup>2</sup> 480 <sup>2</sup> 240 <sup>2</sup>	<b>Shipped included</b> (blank) Surface mounting bracket PBBW Premium surface-mounted back box <sup>3,4</sup> <b>Shipped separately</b> BBW Surface-mounted back box <sup>3</sup>

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

See Accessories and Notes on next page.



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WST-LED  
Rev. 03/27/24



## Accessories

Ordered and shipped separately.

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

## NOTES

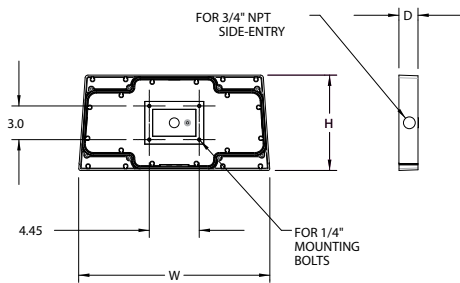
- 1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 2 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 3 Also available as a separate accessory; see accessories information.
- 4 Top conduit entry standard.
- 5 Not available with VG or WG. See PER Table.
- 6 Reference Motion Sensor table.
- 7 Not available 347/480. E7WC or E23WHR, only available 120 or 277.
- 8 Need to specify 120, 208, 240 or 277 voltage.
- 9 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- 10 Not available with Emergency options, PE or PER options.
- 11 DMG option not available with standalone or networked sensors/controls.
- 12 Battery pack rated for -20° to 40°C.
- 13 Comes with PBBW.
- 14 Warranty period is 3-years.
- 15 Not available with BBW.
- 16 Must order with fixture; not an accessory.
- 17 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)

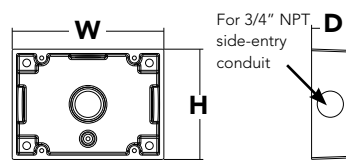


## Optional Back Box (BBW)

**Height:** 4"  
(10.2 cm)

**Width:** 5-1/2"  
(14.0 cm)

**Depth:** 1-1/2"  
(3.8 cm)



## Emergency Battery Operation

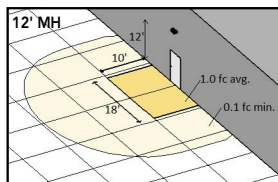
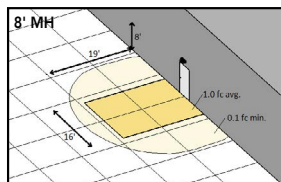
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

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](#)

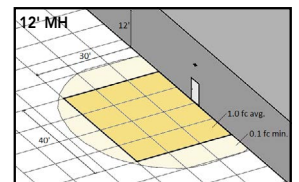
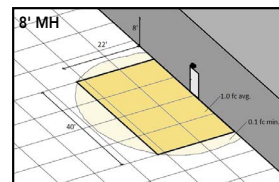
The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per [International Building Code Section 1006](#) and [NFPA 101 Life Safety Code Section 7.9](#), provided luminaires are mounted at an appropriate 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

### 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

### 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	---	---

### 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 <sup>1</sup> )	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



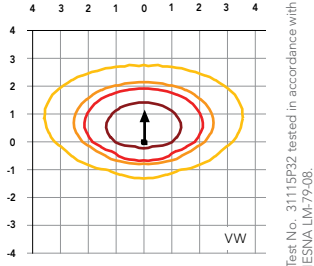
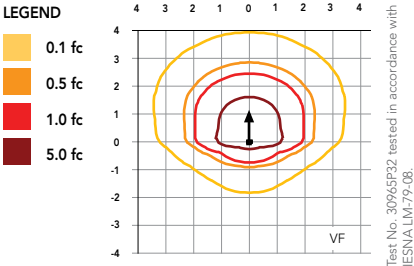
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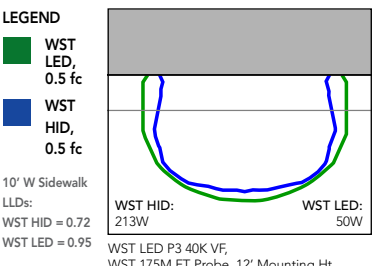
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Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10').



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](http://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](http://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.