



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

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

STANELY D. LINDSEY AND
ASSOCIATES, LTD.
STRUCTURAL
750 OLD HICKORY BLVD, BUILDING 1 SUITE 175
BRENTWOOD, TN 37027
IN-CHARGE/PROJECT MANAGER: JASON PERRY 615.320.1735

CATALYST DESIGN GROUP
CIVIL
5100 TENNESSEE AVE
NASHVILLE, TN 37209
ENGINEER: JACK PARKER 615.622.7220

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

FINAL DEVELOPMENT PACKAGE - 2ND REVIEW



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Suite #500
Phoenix, Arizona 85013
T: 602.943.8950
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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

PROJECT NAME	HCA - LEE'S SUMMIT MEDICAL CENTER - INPATIENT BED EXPANSION
ADDRESS	2100 SE BLUE PKWAY LEE'S SUMMIT, MO 64063
BRIEF PROJECT DESCRIPTION	<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"> - REMOTE PARKING LOT - PEDESTRIAN WALKWAY BRIDGE FROM REMOTE PARKING LOT TO HOSPITAL PARKING LOT - EXTERIOR ELEVATIONS FOR DIETARY EXPANSION AT LEVEL 1 AND INPATIENT BED TOWER EXPANSION ON LEVEL 3

		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 SEQUENCE OF OR OF PARTS OF THE DESIGN. UNDER SUCH COPYRIGHT 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

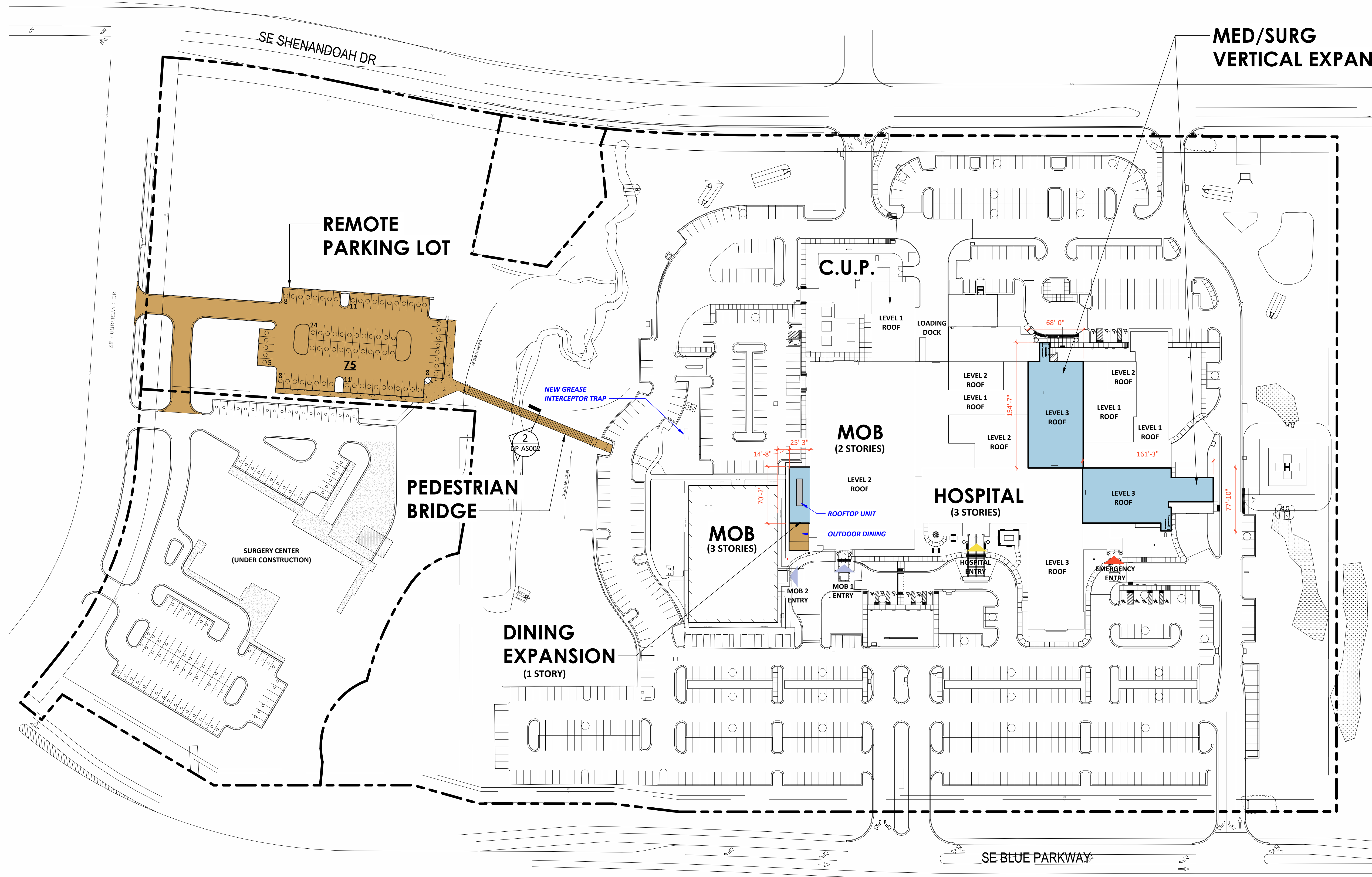
DATE: 2024/08/28
SCALE:
DRAWN:
REVIEWED:
JOB NUMBER: 6406.24

SHEET INDEX

DP-GI001



MED/SURG VERTICAL EXPANSION



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INPATIENT BED EXPANSION

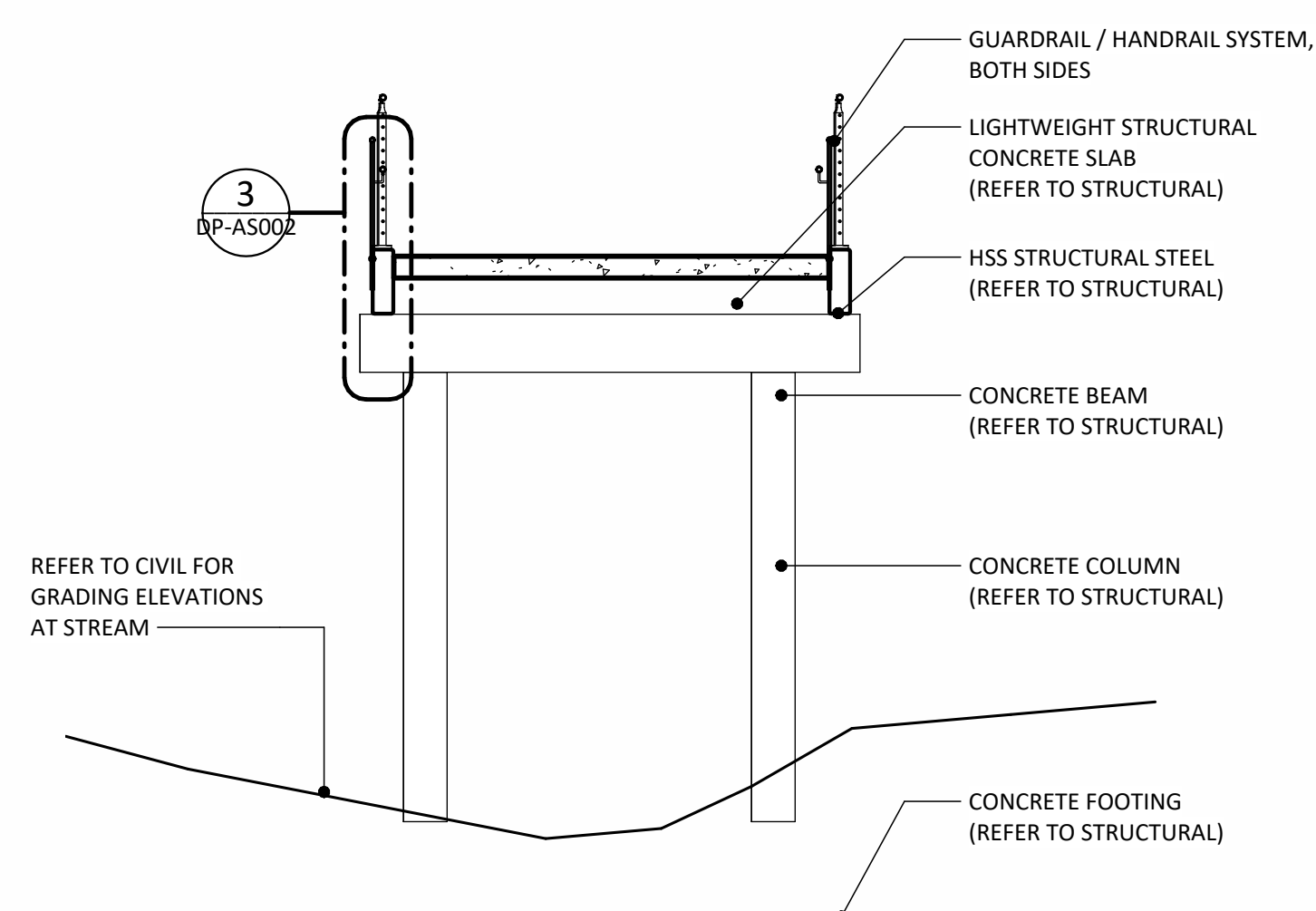
HCA - LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

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

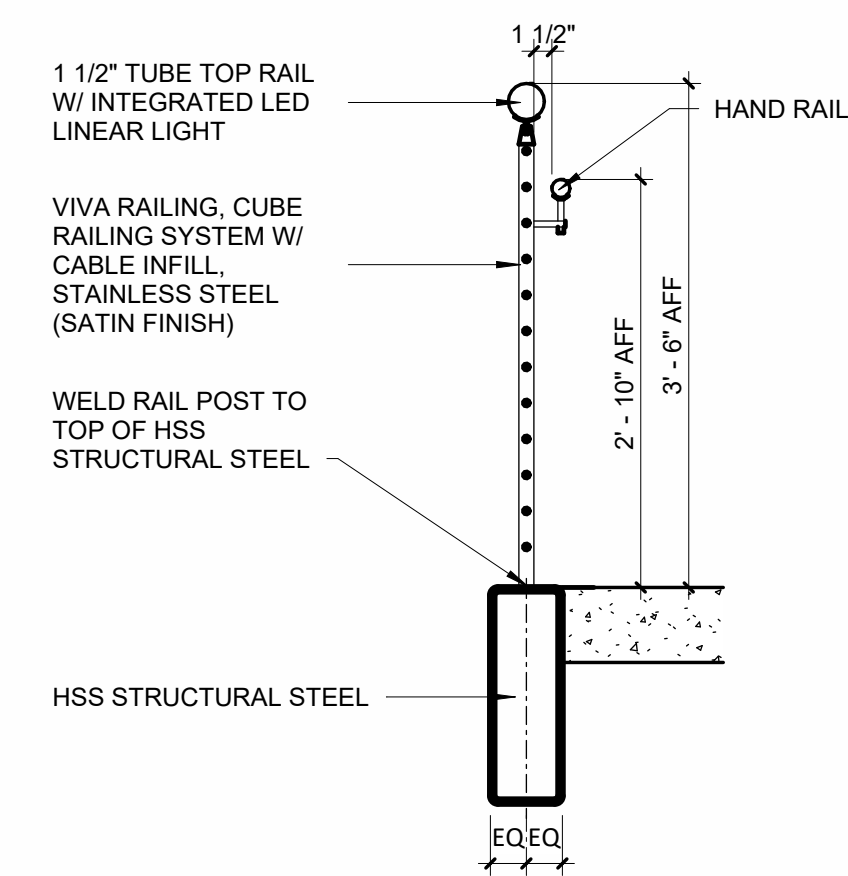
FACILITY NUMBER
0972400009

AGENCY APPROVALS:
AGENCY

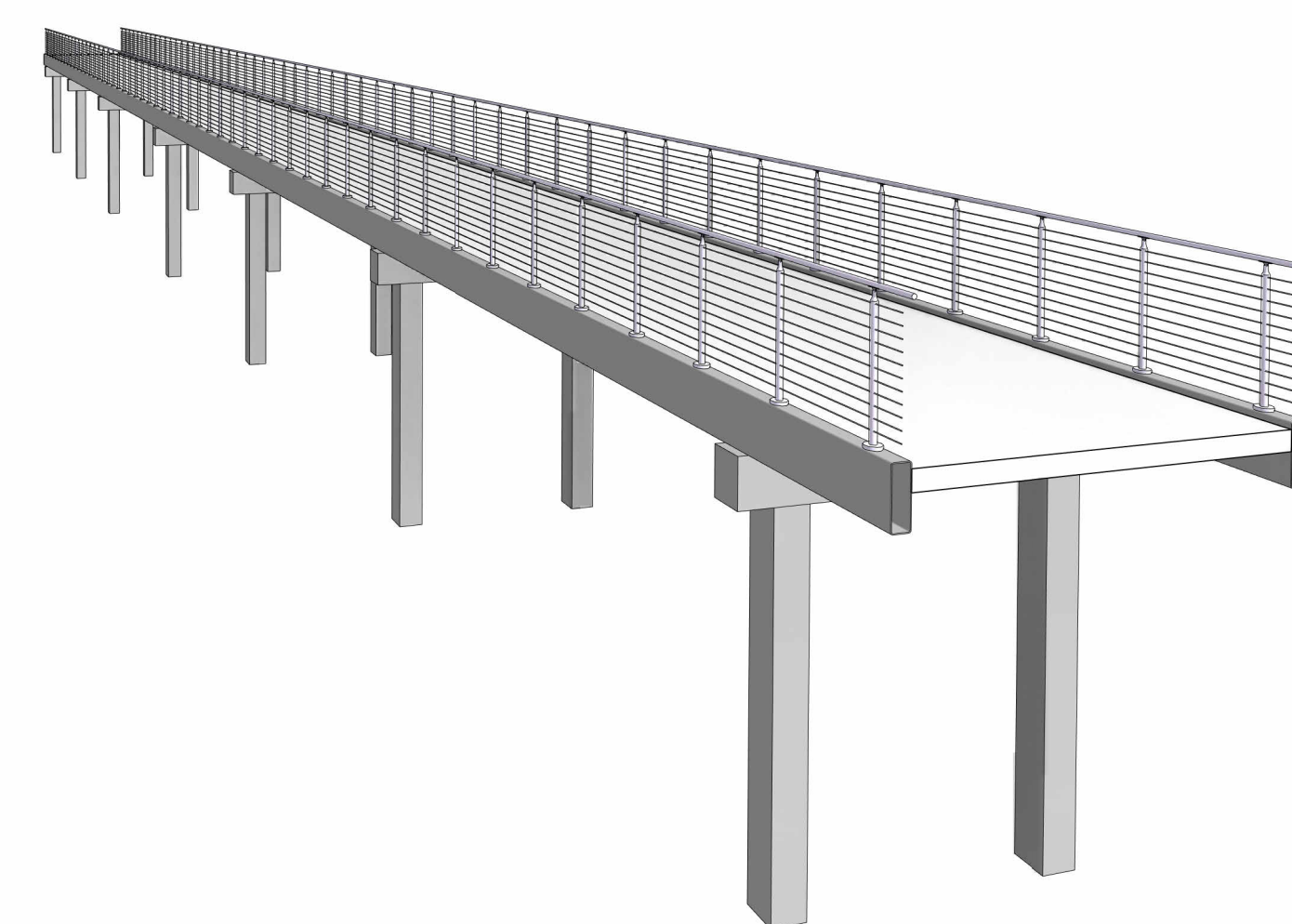
1 ARCHITECTURAL SITE PLAN
1/64" = 1'-0"



2 PEDESTRIAN BRIDGE SECTION
1/4" = 1'-0"



3 GUARDRAIL/HANDRAIL SECTION AT STAIR
3/4" = 1'-0"



4 PEDESTRIAN BRIDGE

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 05/24/2011
SCALE: As indicated
DRAWN:
REVIEWED:
JOB NUMBER: 640

ARCHITECTURAL SITE PLAN

DP-AS002

Autodesk Docs://6406.24.0001 - HCA - LSMC MedSurge Expansion_rv23/6406.24.0001 HCA - LSMC Med Surge Expansion.rvt

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
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 FT², 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}	± 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 STRUCTURAL, MECHANICAL, AND ELECTRICAL 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.

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 ⁴ /FT
MOMENT OF INERTIA (NEGATIVE BENDING), I_y	0.921 IN ⁴ /FT
SECTION MODULUS (POSITIVE MOMENT), S_x	0.512 IN ³ /FT
SECTION MODULUS (NEGATIVE MOMENT), S_y	0.539 IN ³ /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 ACHRS 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 Z (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+ (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.:

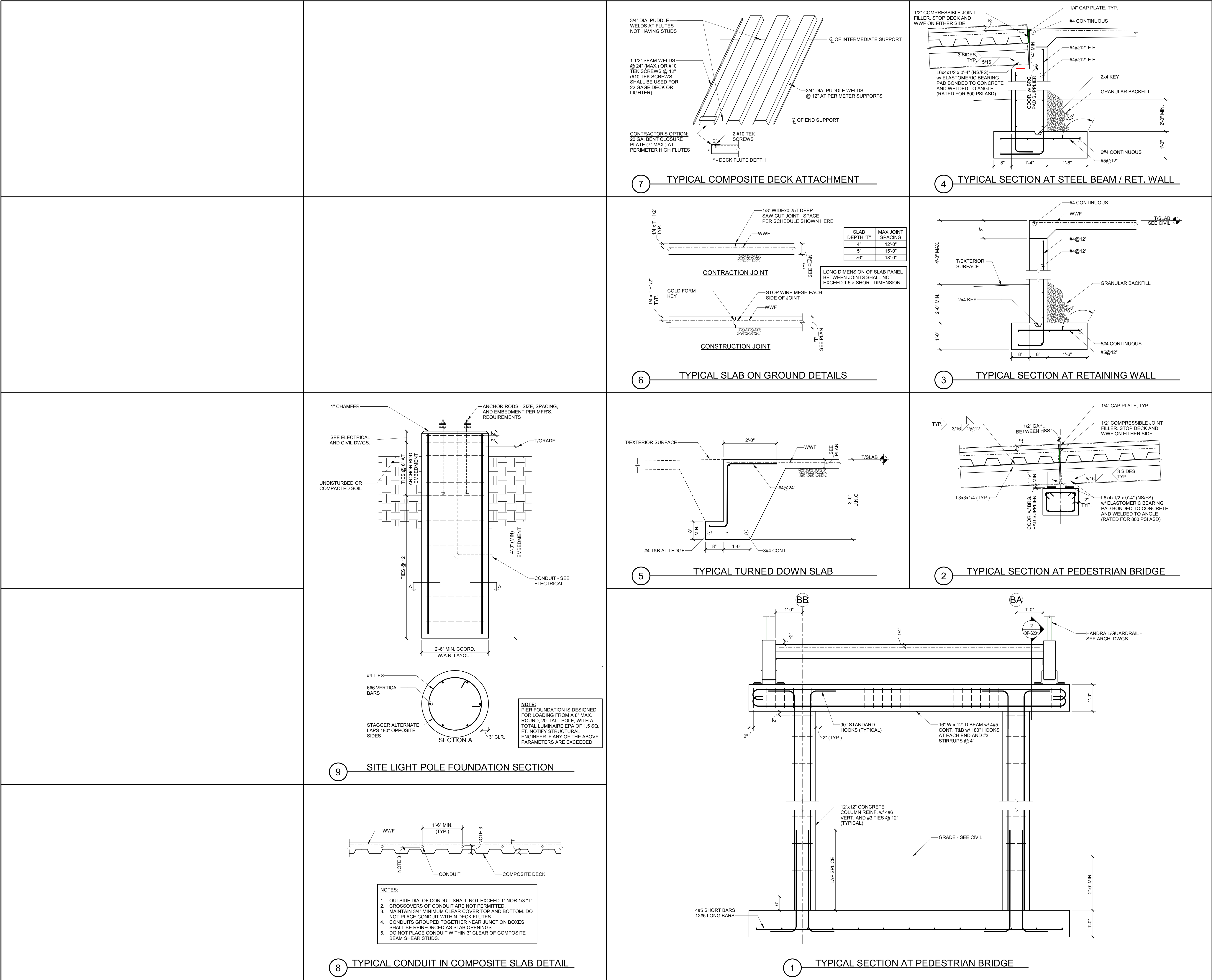
SIMPSON STRONG-TIE SET-3G (ICC-ES ESR-4057)
HLTI HIT-RE 500 v3 SLOW CURE (ICC ESR-3814)
DEWALT PURE110+ (ICC ESR-3298)
- ADHESIVE USED FOR INSTALLING REINFORCING STEEL IN EXISTING CONCRETE SHALL BE QUALIFIED IN ACCORDANCE WITH ACI 305.4 AND ICC-ES AC308. ADHESIVE SHALL BE ONE OF THE FOLLOWING, U.N.O.:

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)					
		TOP BARS (CATEGORY 2)			OTHER BARS CATEGORY (2)		
		1	2	3	1	2	3
#3	A	32	22	13	25	17	12
	B	42	28	17	32	22	13
#4	A	43	29	17	33	22	13
	B	56	37	23	43	29	17
#5	A	54	36	22	41	28	17
	B	70	47	28	54	36	22
#6	A	64	43	26	50	33	20
	B	84	56	34	64	43	26
#7	A	94	63	38	72	48	29
	B	122	81	49	94	63	38
#8	A	107	72	43	82	55	33
	B	139	93	56	107	72	43
#9	A	121	81	49	93	62	38
	B	157	105	63	121	81	49
#10	A	136	91	55	105	70	42
	B	177	118	71	136	91	55
#11	A	151	101	61	116	78	47
	B	196	131	79	151	101	61

TENSION LAP SPlice LENGTHS, (INCHES) FOR GRADE 60 (4) UNCOATED BARS, $f_c = 4,000$ 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	28	19	12	22	15	12
	B	36	24	15	28	19	12
#4	A	37	25	15	29	19	12
	B	48	32	20	37	25	15
#5	A	47	31	19	36	24	15
	B	60	40	24	47	31	19
#6	A	56	37	22	43	29	17
	B	72	48	29	56	37	22
#7	A	81	54	33	63	42	25
	B	106	70	42	81	54	33
#8	A	93	62	37	71	48	29
	B	121	80	48	93	62	37
#9	A	105	70	42	81	54	33
	B	136	91	55	105	70	42
#10	A	118	79	47	91	61	37
	B	153	102	62	118	79	47
#11	A	131	87	53	101	67	41
	B	170	113	68	131	87	53



CONSTRUCTION DOCUMENTS

HCA - LEE'S SUMMIT MEDICAL CENTER

LEE'S SUMMIT, JACKSON COUNTY COUNTY, MO

CATALYST PROJECT NO. 20240037
DECEMBER 17, 2024

SITE DATA

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

IMPERVIOUS SURFACE AREA
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:
HOSPITAL: 1.8 SPACES / BED
MOB: 5 SPACES / 1,000SF
PROPOSED 26 BED FACILITY: 1.8 SPACES / BED

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

TOTAL PARKING REQUIRED:
88 BEDS X 1.8 SPACES =
(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:
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
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:

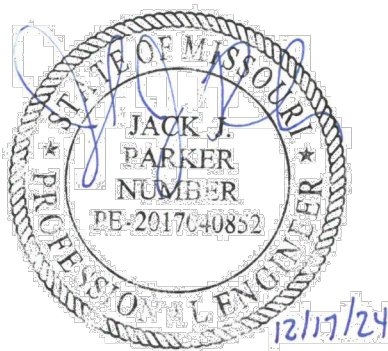
A TRACT OF LAND IN THE NORTHWEST QUARTER OD SECTION 36, TOWNSHIP 48, RANGE 32 IN THE CITY OD LEE'S SUMMIT, JACKSON COUNTY, MISSOURI MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF THE NORTHWEST QUARTER OF SAID SECTION 36; THENCE NORTH 86 DEGREES 19 MINUTES 41 SECONDS WEST, 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

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

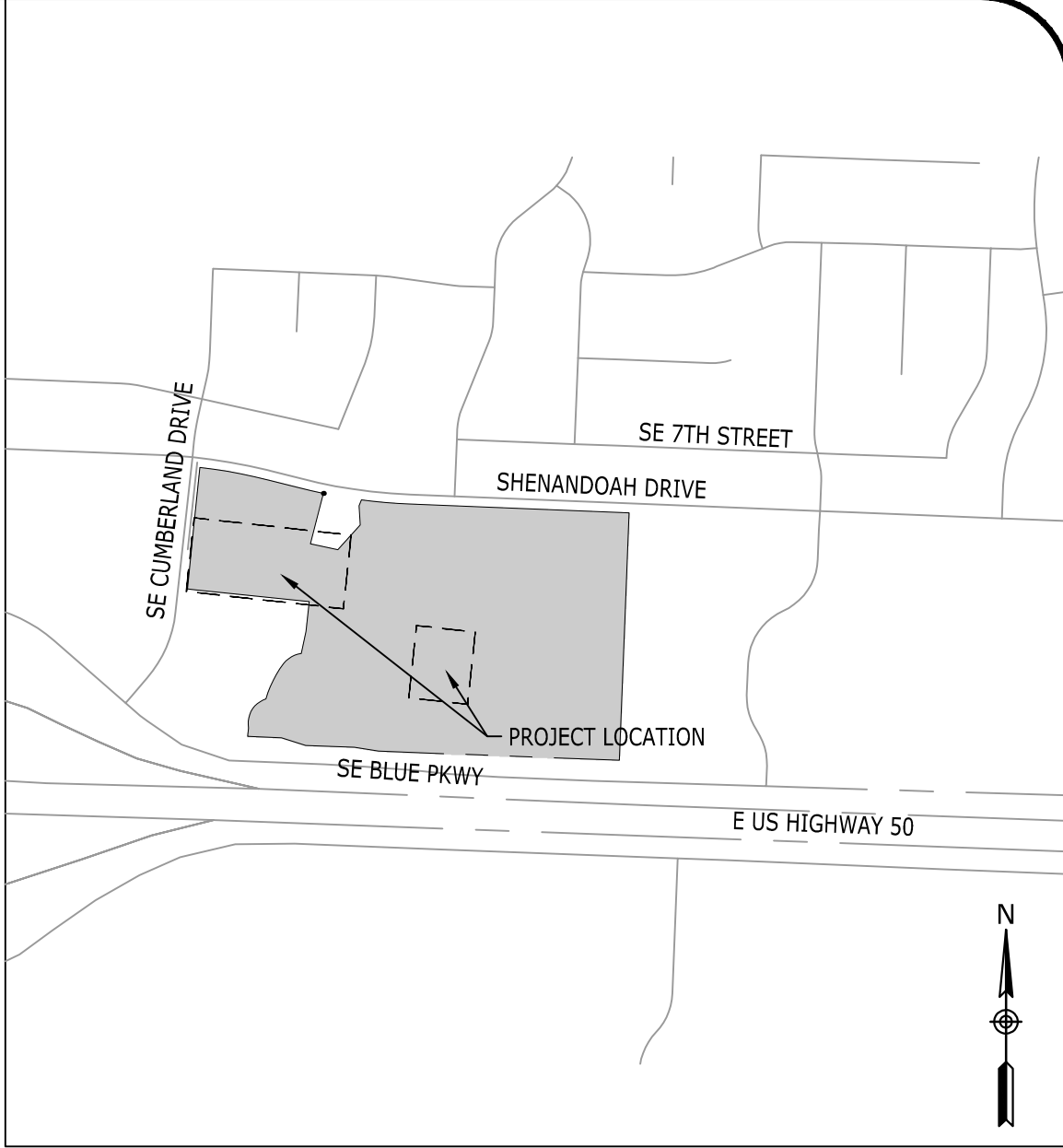
PREPARED FOR

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

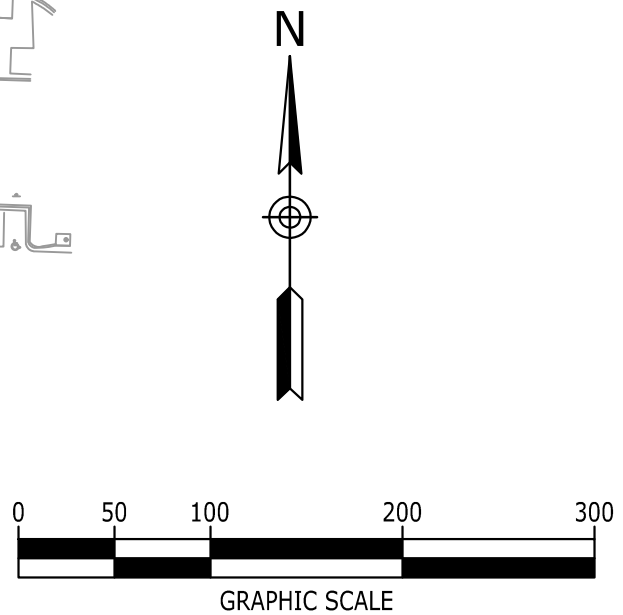
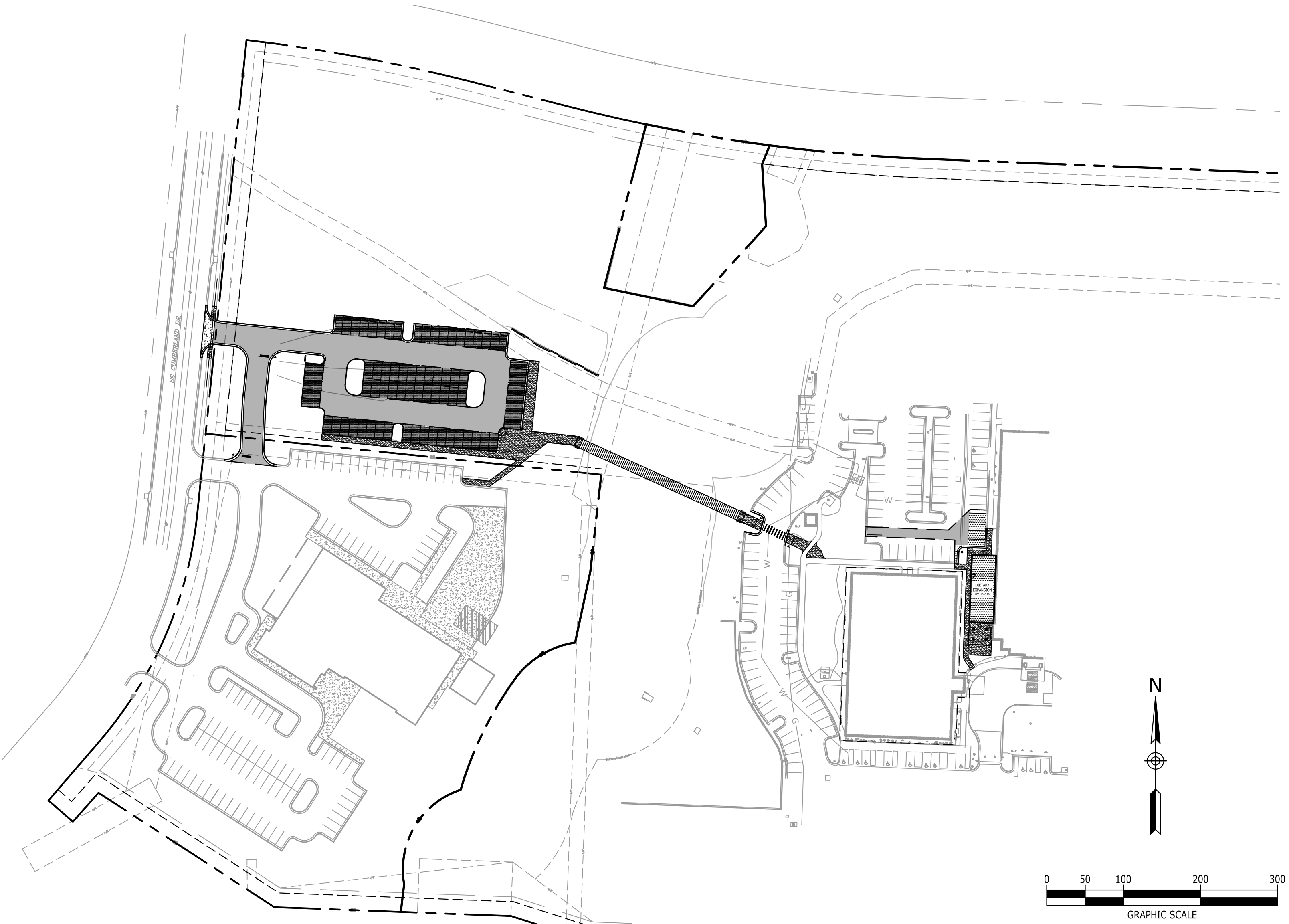


CIVIL ENGINEER/LANDSCAPE ARCHITECT

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



VICINITY MAP
NOT TO SCALE

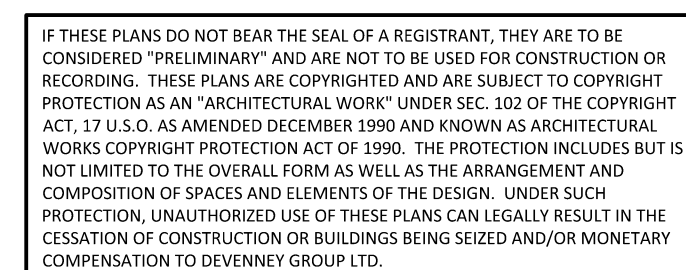


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COVER SHEET

C0.0



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:	2024/12/01
SCALE:	1:4
DRAWN:	A
REVIEWED:	W
JOB NUMBER:	6406.2

C1.0

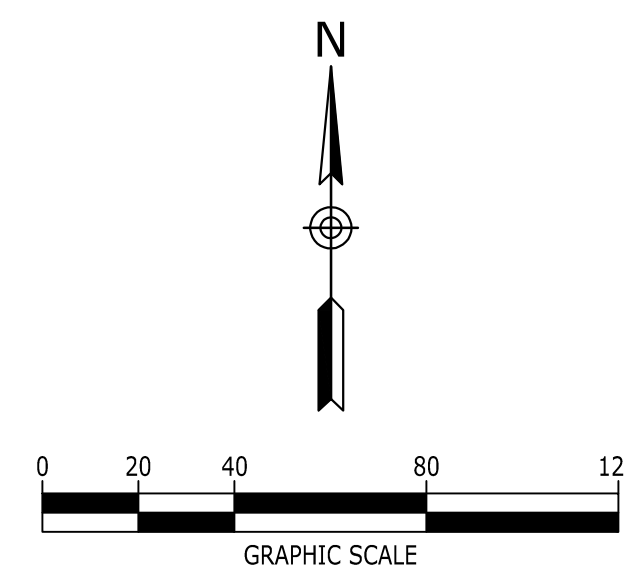
LEGAL DESCRIPTION

A TRACT OF LAND IN THE NORTHWEST QUARTER OF SECTION 36, TOWNSHIP 48, RANGE 32 IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF THE NORTHWEST QUARTER OF SAID SECTION 36, THENCE NORTH 66 DEGREES 19 MINUTES 00 SECONDS EAST, 110.43 FEET TO A POINT ON THE WESTERN 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 CURVE, 225.49 FEET TO A POINT ON THE EASTERN RIGHT-OF-WAY LINE OF RELOCATED MISSOURI HIGHWAY 50, THENCE NORTHEASTERLY ALONG A CURVE TO THE RIGHT HAVING A BEARING OF SOUTH 82 DEGREES 16 MINUTES 11 SECONDS EAST, A RADIUS OF 1104.93 FEET AND 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 45 MINUTES 00 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. 13+07.20 ON SAID RAMP 8, AS MEASURED PERPENDICULAR THERETO; THENCE NORTHEASTERLY ALONG A CURVE TO THE RIGHT, SAID POINT BEING EASTERN RIGHT-OF-WAY LINE HAVING A RADIAL BEARING OF SOUTH 82 DEGREES 16 MINUTES 11 SECONDS EAST, A RADIUS OF 1104.93 FEET AND AN ARC DISTANCE OF 140.47 FEET, SAID POINT BEING 150.00 FEET EASTERLY FROM STA. 13+37.05 ON SAID RAMP 8, AS MEASURED PERPENDICULAR THERETO; THENCE NORTH 7 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 SAID INTERSTATE ROUTE 470, SAID POINT BEING 150.00 FEET EASTERLY FROM STA. 13+37.05, AS MEASURED PERPENDICULAR THERETO; THENCE SOUTH 16 DEGREES 28 MINUTES 19 SECONDS EAST ALONG WESTERLY RIGHT-OF-WAY LINE, 384.30 FEET TO THE TRUE POINT OF BEGINNING.

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

BASE INFORMATION WAS TAKEN FROM A SURVEY PREPARED BY
LOVELACE & ASSOCIATES, LLC, DATED 05/01/2024. CATALYST
DESIGN GROUP AND ANY OF THEIR CONSULTANTS SHALL NOT BE
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OMISSIONS RESULTING FROM SUCH.



Catalyst
DESIGN GROUP

524 WILLIAMS DRIVE, SUITE 201, MURFREESBORO, TN 37129

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

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

DRAWING TITLE

EXISTING
CONDITIONS

PROJECT NUMBER	20240037
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DRAWING NUMBER

C1.0



Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

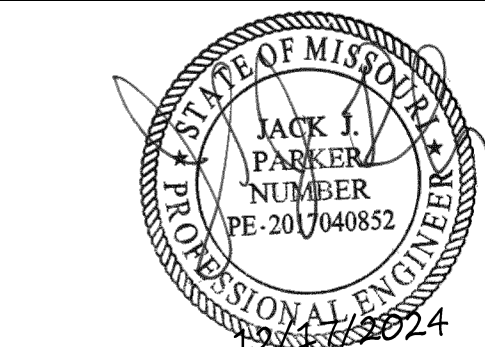
T: 602.943.8950

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



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 PREPARED BY A PROFESSIONAL ARCHITECTURAL FIRM AND ARE SUBJECT TO COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SEC. 102 OF THE COPYRIGHT ACT. IT IS HEREBY ADVISED THAT ANY REPRODUCTION OR TRANSMISSION OF THESE PLANS WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECTURAL FIRM IS PROHIBITED. NO PART OF THESE PLANS CAN BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE ARCHITECTURAL FIRM. THE ARCHITECTURAL FIRM ASSUMES NO LIABILITY FOR THE CONSTRUCTION OF BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO CONVEY GROUP, LTD.

INPATIENT BED EXPANSION

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

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

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 2024/12/05
SCALE:
DRAWN: AP
REVIEWED: WB
JOB NUMBER: 6406.24

GENERAL NOTES

C2.0

PROJECT NOTES

- SUBJECT PROPERTY SHOWN ON TAX MAP 60, AS PARCEL 60-420-99-15-00-0-00-000 OF THE JACKSON COUNTY COUNTY, MO, TAX MAPS.
- SITE EXISTING CONDITIONS ARE TAKEN FROM SURVEY BY LOVELAKE & ASSOCIATES, LLC DATED 05/01/2024. CATALYST DESIGN GROUP SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF OR ASSOCIATIONS FROM THE EXISTING CONDITIONS OR ERRORS RESULTING THEREFROM.
- CATALYST DESIGN GROUP RECOMMENDS THAT CONSTRUCTION STAKING BE PROVIDED BY A SURVEYOR LICENSED IN THE STATE OF THE PROJECT.
- THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS PRIOR TO CONSTRUCTION AND MAKE THE ENGINEER AWARE OF ANY INCONSISTENCIES BETWEEN THE SITE CONDITIONS AND EXISTING CONDITIONS PLAN.
- DIMENSIONS PROVIDED ON THE PLAN ARE TAKEN TO THE FACE OF CURBS, EDGE OF CONCRETE OR EDGE OF BUILDING, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS PRIOR TO INITIATING CONSTRUCTION. THE CONTRACTOR SHALL ADHERE TO PERMIT REQUIREMENTS AS WORK PROCEEDS.
- SITE CONTROL SHALL BE BASED OFF THE REFERENCE POINTS PROVIDED. SEE THE ARCHITECTURAL PLANS FOR LAYOUT CONTROL OF BUILDING ADDITIONS.
- THE CONTRACTOR SHALL SUBMIT A REQUEST FOR UTILITY LOCATION (CALL 811) AND HAVE THE UTILITIES MARKED BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL BE FAMILIAR WITH THE UTILITY LOCATIONS, PROTECT UTILITIES WHICH REMAIN IN SERVICE, AND REPAIR ANY DAMAGE TO UTILITY SYSTEMS PER THE UTILITY PROVIDER REQUIREMENTS.
- THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO PUBLIC ROADWAYS, CURBS AND SIDEWALKS IN ACCORDANCE WITH THE LOCAL REQUIREMENTS AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL REPAIR OR REPLACE ANY WORK UNACCEPTABLE TO THE OWNER'S REPRESENTATIVE OR GOVERNING AGENCIES AT CONTRACTOR'S EXPENSE.
- IN EASEMENTS AND RIGHTS-OF-WAY, CONTRACTOR SHALL PROTECT AND RESTORE SAID PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING AT THE COMMENCEMENT OF CONSTRUCTION EXCEPT AS NOTED.
- ON SITE ASPHALT PAVEMENT MATERIALS SHALL BE PER LOCAL AUTHORITY SPECIFICATIONS, STATE SPECIFICATIONS, AND GEOTECHNICAL REPORT RECOMMENDATIONS.
- THE CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS AND PRECAUTIONS.
- UNLESS OTHERWISE NOTED, SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS FOR REVIEW. DESIGN DRAWINGS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS. THE ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH LOCAL/STATE SPECIFICATIONS. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY SPECIFIC DEVIATIONS AND OBTAIN ENGINEER'S WRITTEN APPROVAL OF THE DEVIATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES AND/OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF MO, WHOSE SERVICES ARE ENGAGED AND PAID FOR BY THE CONTRACTOR.
- ALL SPECIFICATIONS, DOCUMENTS, AND DETAILS REFERENCED SHALL BE THE LATEST REVISION AS APPLICABLE AT THE TIME OF PERMIT APPROVAL.
- CONTRACTOR SHALL REPAIR ALL OFF-SITE CONSTRUCTION AREAS TO EQUAL AND/OR BETTER CONDITION THAN AT THE START OF CONSTRUCTION.

DEMOLITION NOTES

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

ADA ACCESSIBILITY NOTES

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

TREE PROTECTION NOTES

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

EROSION CONTROL NOTES

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

AS-BUILT REQUIREMENTS

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

CONTRACTOR TO RETAIN AND PROVIDE RECEIPTS FOR ANY FABRICATED STORMWATER MANAGEMENT INFRASTRUCTURE SUCH AS PROPRIETARY WATER QUALITY UNITS, UNDERGROUND DETENTION STRUCTURES, PERMEABLE PAVERS, OR SPECIALTY SOIL MEDIA (WITH APPLICABLE TESTING IF REQUIRED).

SITE GRADING NOTES

- THE DISTURBED AREA FOR THIS PROJECT IS ESTIMATED TO BE #2.15 ACRES.
- THE SUBJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 29050C04390 OF THE FEMA FLOOD INSURANCE MAPS FOR JACKSON COUNTY COUNTY, MO, DATED 01/20/2017.
- FOLLOW THE DIRECTIVES OF THE EROSION CONTROL AND TREE PROTECTION NOTES INCLUDED ELSEWHERE IN THESE DOCUMENTS.
- THE GEOTECHNICAL REPORT, PREPARED BY OTHERS, IS INCORPORATED BY REFERENCE AND MADE A PART OF THE CONTRACT DOCUMENTS. IT IS INTENDED THAT THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT BE FOLLOWED. IN THE EVENT OF CONFLICTS BETWEEN THE CONSTRUCTION DRAWINGS AND THE GEOTECHNICAL REPORT, MAKE NO ASSUMPTIONS. THE ENGINEER SHALL BE IMMEDIATELY BE NOTIFIED FOR CLARIFICATION.
- THE CONTRACTOR SHALL REQUEST UTILITY LOCATIONS (811) AND VERIFY LOCATIONS OF ALL OTHER PRIVATE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE AND REPAIR IF DAMAGED PER PROVIDER REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL WORK AROUND EXISTING UTILITIES WITH CORRESPONDING PROVIDER.
- THE CONTRACTOR SHALL CONFIRM EXISTING GRADES AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND CONTACT THE ENGINEER WITH ANY DISCREPANCIES.
- THE CONTRACTOR SHALL OBTAIN ALL APPROVALS AND PERMITS PRIOR TO INITIATING GRADING OPERATIONS.
- POSITIVE DRAINAGE SHALL BE ESTABLISHED INITIALLY AND MAINTAINED THROUGHOUT CONSTRUCTION.
- PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE THE FINISH GRADE ELEVATIONS. CONTRACTOR SHALL REQUEST ADDITIONAL INFORMATION FROM THE ENGINEER WHERE INTENT IN THE PROPOSED GRADE IS UNCLEAR.
- STRIP TOPSOIL FROM PROPOSED GRADING AREAS AND STOCKPILE FOR REUSE. PROVIDE TEMPORARY SEEDING FOR STOCKPILE AREAS DURING CONSTRUCTION. REDISTRIBUTE TOPSOIL AT A MINIMUM DEPTH OF 6" IN LAWN AREAS AND 18" IN LANDSCAPE BEDS. PROVIDE ADDITIONAL TOPSOIL WHEN ONSITE QUANTITIES ARE INSUFFICIENT.
- CONTRACTOR WILL PROCURE THE SERVICES OF A QUALIFIED SOILS TESTING LABORATORY/ ENGINEER TO OBSERVE WORK AND MAKE TESTS AS REQUIRED.
- CONTRACTOR SHOULD COMPLETE GRADING ACTIVITIES WITHIN 10 CALENDAR DAYS OF ACHIEVING OPTIMUM SUBGRADE COMPACTION.
- FILL AREAS SHALL BE PROOF ROLLED WITH RUBBER-TIRED EQUIPMENT WITH A MINIMUM WEIGHT OF FIFTEEN TONS PRIOR TO BEGINNING FILL OPERATIONS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY GEOTECHNICAL ENGINEER, AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED. COMPACTION OF BACKFILL MATERIALS SHALL BE TO 98% MAXIMUM DRY DENSITY AS PER ASTM D698 (STANDARD PROCTOR), UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL REPORT.
- THE CONTRACTOR SHALL, AT THEIR COST, PROVIDE OFFSITE MATERIALS MEETING THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER'S REPORT WHERE ONSITE SOIL QUANTITIES ARE NOT SUFFICIENT. ALL FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL REPRESENTATIVE PRIOR TO BEING HAULED TO THE SITE. MATERIAL SHALL BE PLACED AND COMPACTED IN LIFT DEPTHS AS NOTED IN THE SPECIFICATIONS AND INSPECTED BY THE GEOTECHNICAL REPRESENTATIVE. SUBGRADES SHALL BE PROOF ROLLED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND GEOTECHNICAL REPRESENTATIVE'S DIRECTIONS. UNSUITABLE MATERIALS SHALL BE REMOVED AND REPLACED AS DIRECTED.
- CUT AREAS SHALL BE PROOF-ROLLED AFTER FINAL SUBGRADE IS ACHIEVED IN THE SAME MANNER AS FILLED AREAS. THE CONTRACTOR SHALL EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY GEOTECHNICAL ENGINEER, AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED. COMPACTION OF BACKFILL MATERIALS SHALL BE TO 98% MAXIMUM DRY DENSITY AS PER ASTM D698 (STANDARD PROCTOR), UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL REPORT.
- APPLICABLE SPECIFICATIONS FOR COMPACTED FILL: THE FOLLOWING CURRENT AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) STANDARDS ARE HEREBY MADE PART OF THIS SPECIFICATION:
 - C136/136M STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES
 - D421-58 DRY PREPARATION OF SOIL SAMPLES FOR GRAIN-SIZE ANALYSIS AND DETERMINATION OF SOIL CONSTANTS.
 - D422-63 STANDARD METHOD OF PARTICLE SIZE ANALYSIS OF SOILS.
 - D1150-54 METHOD OF TEST FOR AMOUNT OF MATERIAL IN SILTS FINER THAN NO. 200 SIEVE.
 - D698 METHOD FOR LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING STANDARD EFFORT
 - D1557-78 STANDARD TEST METHODS FOR MOISTURE-DENSITY RELATIONS OF SOILS AND SOIL AGGREGATE MIXTURES USING 10LB. (4.54-KG) RAMMER AND 18-INCH (457 MM) DROPS.
 - D2487 STANDARD PRACTICE FOR CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES
 - D4318 STANDARD TEST METHODS FOR LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
 - D6938 STANDARD TEST METHODS FOR IN-PLACE DENSITY AND WATER CONTENT OF SOIL AND SOIL-AGGREGATE BY NUCLEAR METHODS

CONTRACTOR SHALL REVIEW THE SITE SPECIFIC GEOTECHNICAL REPORT PRIOR TO COMMENCING WITH GRADING OPERATIONS. WHERE CONFLICTS BETWEEN THE GRADING NOTES AND GEOTECHNICAL REPORT EXISTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CLARIFICATION.

THE CONTRACTOR SHALL REVIEW THE PROPOSED GRADING PLAN AND SPOT ELEVATIONS AND REQUEST INFORMATION FROM THE ENGINEER FOR SPOTS OR CONTOURS THAT DO NOT APPEAR TO CORRESPOND WITH OTHER SURROUNDING GRADING. PROPOSED GRADES REFLECT AN INTENT FOR THE SLOPES AND DIRECTION OF DRAINAGE. THE CONTRACTOR SHALL REQUEST DIRECTION FOR AREAS WHERE THE INTENT IS NOT CLEAR.

THE CONTRACTOR SHALL CONFIRM EXISTING GRADES GENERALLY REFLECT THE SURVEY DATA USED IN PREPARING THESE PLANS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING SITE WORK.

WHERE BUILDINGS (EXISTING OR PROPOSED) OR OTHER SITE ELEMENTS CLOSELY ADJUT THE RIGHT-OF-WAY OR ACCESSIBLE PATH, THE CONTRACTOR SHALL CONFIRM STREET, CURB, AND SIDEWALK GRADES IN THESE AREAS ARE CONSISTENT WITH THE EXPECTED ELEVATIONS & HORIZONTAL LOCATIONS WITHIN THE PLANS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

WHERE PROPOSED NEW CURB AND SIDEWALK ARE ALONG EXISTING RIGHT-OF-WAY, THE CONTRACTOR SHALL CONFIRM CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS, AND PLACE NEW CURB SUCH THAT PROPER CROSS SLOPES ARE ACHIEVED PER THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PROPOSED DESIGN ELEVATIONS AND FIELD CONDITIONS.

MAXIMUM CUT AND FILL SLOPES SHALL BE 3 HORIZONTAL TO 1 VERTICAL UNLESS DIRECTLY NOTED OTHERWISE ON THE PLAN. FILL SLOPES SHALL BE CONSTRUCTED BY FILLING BEYOND THE DESIRED GRADES TO OBTAIN COMPACTION AND THEN CUT BACK TO THE DESIRED GRADES. WHERE GRADES ARE 3:1 AND STEEPER CONTRACTOR TO PROVIDE SLOPE STABILIZATION UTILIZING NORTH AMERICAN GRASSES, SC-250 OR APPROVED EQUAL. IN AREAS THAT ARE NOTED TO REQUIRE STABILIZATION WHERE SLOPES ARE LESS THAN 3:1 CONTRACTOR TO USE NORTH AMERICAN GRASSES SC-150 OR APPROVED EQUAL.

MINIMUM GRADES SHALL BE 1% IN PAVEMENT AREAS, AND A MINIMUM OF 2% IN LAWN AREAS UNLESS DIRECTLY SPECIFIED IN THE PLANS.

THE CONTRACTOR SHALL TAKE CARE TO PROPERLY COMPACT FILL WITHIN UTILITY TRENCHES AND AROUND OTHER PROJECT FEATURES TO AVOID SETTLEMENT. SETTLEMENT OCCURRING WITHIN 12 MONTHS OF COMPLETION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

UNLESS SPECIFICALLY NOTED OTHERWISE WITHIN THE PLANS, ALL PROPOSED GRADES SHALL TIE INTO EXISTING GRADES AT THE PROJECT PROPERTY BOUNDARY. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF IT APPEARS THERE IS A CONFLICTING FIELD CONDITIONS THAT WOULD NOT ALLOW GRADING AS DESIGNED.

ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS AFTER FINAL GRADING IS ACHIEVED.

STORM SEWER NOTES

- ALL STORMWATER PIPES, STRUCTURES, AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL AND STATE STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL FOLLOW CONSTRUCTION PLANS AND MANUFACTURER DETAILS, SPECIFICATIONS, AND INSTALLATION INSTRUCTIONS AS INCLUDED WITHIN THE PLANS AND PROVIDED BY THE MANUFACTURER FOR THE INSTALLATION OF PIPES, STRUCTURES, WATER QUALITY UNITS AND FABRICATED DETENTION SYSTEMS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STORM SEWER PIPE, STRUCTURES, WATER QUALITY STRUCTURES, AND FABRICATED DETENTION STRUCTURES FOR ENGINEER AND OWNER APPROVAL PRIOR TO ORDERING MATERIALS.
 - PIPE SPECIFICATIONS:
 - REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III, WALL TYPE 'B' CONFORMING TO ASTM C76 UNLESS OTHERWISE NOTED WITH BELL-AND-SPIGOT AND GASKETED JOINTS WITH ASTM C443 RUBBER GASKETS OR NASTIC SEAL CONFORMING TO ASTM C990. RCP SHALL BE INSTALLED PER THE RECOMMENDATIONS OF ASTM C1479.
 - CLASS IV RCP PIPE IS REQUIRED FOR FILL HEIGHTS OVER 13' OR WHERE NOTED BY THE ENGINEER.
 - HIGH DENSITY POLYETHYLENE (HDPE) PIPE SHALL BE DUAL-WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR. HDPE PIPE SHALL CONFORM TO ASTM D3350 WITH RUBBER GASKET SOIL TIGHT JOINTS CONFORMING TO ASTM F477. THERMOPLASTIC PIPING SHALL BE INSTALLED PER THE RECOMMENDATIONS OF ASTM C2321.
 - HIGH-PERFORMANCE POLYPROPYLENE (PP) PIPE SHALL BE DUAL-WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR, CONFORMING TO ASTM F2981 AND JASHTO M333 WITH GASKETED SOIL TIGHT JOINTS CONFORMING TO ASTM F477. THERMOPLASTIC PIPING SHALL BE INSTALLED PER THE RECOMMENDATIONS OF ASTM C2321.
 - ALL PIPES SHALL BE INSTALLED, AT A MINIMUM, WITH SOIL TIGHT JOINTS AND BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND AASHTO SECTION 30.
 - PIPE BEDDING, BACKFILL, AND COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH LOCAL AND STATE DEPARTMENT OF TRANSPORTATION DETAILS AND SPECIFICATIONS.
 - PIPES UNDER EXISTING PAVEMENT AREAS SHALL BE COMPLETELY BACKFILLED WITH CRUSHED STONE OR PER LOCAL AUTHORITY STANDARD REQUIREMENTS. PAVEMENT SECTIONS SHALL MEET OR EXCEED EXISTING CONDITIONS WITH A SMOOTH TRANSITION.
 - STORM STRUCTURE SPECIFICATIONS:
 - STORM INLETS AND MANHOLES SHALL BE PRECAST IN COMPLIANCE WITH THE LOCAL/STATE JURISDICTIONAL AUTHORITY'S STANDARD DETAILS AND SPECIFICATIONS, AND MEET/OR EXCEED SPECIFICATIONS OF ASTM C478/C913. STRUCTURES SHALL BE TRAFFIC RATED PER A-20 LOADING REQUIREMENTS.
 - REFER TO STRUCTURE TABLE FOR CASTING FRAME AND GATE TYPES. FRAMES AND GRATES TO BE PROVIDED IN ACCORDANCE WITH THE LOCAL/STATE JURISDICTIONAL AUTHORITY'S STANDARD DETAILS AND SPECIFICATIONS AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
 - PIPE CONNECTIONS TO STRUCTURES:
 - FLEXIBLE, WATERTIGHT GASKETS SHALL COMPLY WITH ASTM C933
 - NON-SHRINK GROUT PER ASTM C1107
 - FRAMES AND GRATES:
 - MATERIAL: GRAY IRON CLASS 35 PER ASTM A48 UNLESS OTHERWISE INDICATED.
 - REFER TO PIPE AND STRUCTURE TABLE FOR CASTING TYPES. INSTALL REDUCERS AS NECESSARY PER MANUFACTURER'S SPECIFICATIONS TO ACCOMMODATE LARGER PIPE DIAMETERS OR CASTING SIZES.
 - TOP OF GRATE ELEVATIONS FOR DRAINAGE STRUCTURES SHALL BE PROVIDED PER THE DETAILS AND STRUCTURE TABLE.
 - CONTRACTOR SHALL PLACE STRUCTURES BASED ON THE ACTUAL DIMENSIONS OF ORDERED STRUCTURE/GRATE TO ALIGN WITH PROPOSED OR EXISTING CURB LINE. STRUCTURES SHOULD NOT BE INSTALLED BASED SOLELY ON STRUCTURE CENTERLINES.
 - COORDINATE THE LOCATION OF SITE DRAINAGE SYSTEMS WITH THE BUILDING ARCHITECTURE AND PLUMBING PLANS FOR COLLECTION OF ROOF DRAINS AND DOWNSPOUTS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - ADJUST THE CASTINGS OF ALL EXISTING AND NEW STRUCTURES TO MATCH PROPOSED FINISH GRADE ENSURING POSITIVE DRAINAGE IS STILL MAINTAINED. SLOPE THE TOPS OF CASTINGS TO MATCH SLOPES OF PROPOSED PAVEMENTS AND SIDEWALKS.

SITE UTILITY NOTES

- THE CONTRACTOR SHALL REQUEST UTILITY LOCATIONS (811) AND VERIFY LOCATIONS OF ALL OTHER PRIVATE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE AND REPAIR IF DAMAGED PER PROVIDER REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL WORK AROUND EXISTING UTILITIES WITH CORRESPONDING PROVIDER.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS OF EACH UTILITY AND VERIFY THE SCOPE OF INSTALLATIONS OR RELOCATIONS THAT WILL BE NEEDED AND IMPACT EACH COULD HAVE ON THE SCHEDULE OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEQUENCING OF INSTALLATION OF THE UTILITIES TO AVOID CONFLICTING HORIZONTAL AND VERTICAL LOCATIONS.
- ALL PUBLIC WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE TO THE GOVERNING AUTHORITY'S REQUIREMENTS AND SPECIFICATIONS. IF THE GOVERNING AUTHORITY DOES NOT HAVE MATERIAL RECOMMENDATIONS FOR PRIVATE UTILITIES, THEN THE CONTRACTOR SHALL PROVIDE PRIVATE MATERIALS IN ACCORDANCE WITH PUBLIC STANDARDS. OTHERWISE, THE FOLLOWING MINIMUM STANDARDS SHALL BE MET:
 - PRIVATE GRAVITY SANITARY SEWER APPLICATIONS:
 - POLYVINYL CHLORIDE PIPE (PVC) 4" AND GREATER SHALL BE SDR 35, PER ASTM D3034 OR ASTM F679
 - JOINTS: ELASTOMERIC GASKETED, BELL AND SPIGOT, PUSH-ON TYPE PROVIDING A WATER TIGHT SEAL PER ASTM D3212.
 - DUCTILE IRON PIPE (DIP) SHALL BE PRESSURE CLASS 350 COMPLYING WITH LATEST VERSION OF AWWA C150/C151
 - JOINTS AND FITTINGS: MECHANICAL, PUSH-ON JOINTS, OR FLANGED JOINTS CONFORMING TO AWWA STANDARD C110/C111/C113.
 - LINER AND COATINGS: INTERIOR LINER 40 MIL DRY FILM, PERMA SHIELD 431 FL OR APPROVED EQUAL AND ASPHALTIC EXTERIOR COATINGS CONFORMING TO AWWA C151 FOR ALL PIPES, JOINTS, AND FITTINGS.
 - PRIVATE POTABLE WATER APPLICATIONS:
 - POLYVINYL CHLORIDE PIPE (PVC) LESS THAN 4" SHALL BE SCHEDULE 40 PVC PIPE PER ASTM D1785
 - JOINTS AND FITTINGS: SOLVENT CEMENTED JOINTS PER ASTM D2672. PVC FITTINGS PER ASTM D2466
 - POLYVINYL CHLORIDE PIPE (PVC) 4" AND GREATER SHALL BE AWWA C900, DR-18
 - JOINTS AND FITTINGS: RESTRAINED GASKETED JOINTS PER ASTM F477 AND ASTM D3139. DIP FITTINGS WITH RESTRAINED JOINTS CONFORMING TO AWWA STANDARD C110/C111/C113 ARE TO BE USED.
 - LINING & COATING: INTERIOR CEMENT MORTAR LINING CONFORMING TO AWWA C104 REQUIREMENTS AND ASPHALTIC EXTERIOR COATINGS CONFORMING TO AWWA C151 FOR ALL PIPES, JOINTS, AND FITTINGS.
 - DUCTILE IRON PIPE (DIP) 16" AND BELOW SHALL BE PRESSURE CLASS 350 COMPLYING WITH LATEST VERSION OF AWWA C150/C151.
 - JOINTS AND FITTINGS: MECHANICAL OR PUSH-ON JOINTS OR FLANGED JOINTS CONFORMING TO AWWA STANDARD C110/C111/C113/C115/C153.
 - LINING & COATING: INTERIOR CEMENT MORTAR LINING CONFORMING TO AWWA C104 AND ASPHALTIC EXTERIOR COATINGS CONFORMING TO AWWA C151 FOR ALL PIPES, JOINTS, AND FITTINGS.
 - COPPER PIPE (CU) SHALL BE TYPE 'K' ANNEALED PER ASTM B88.
 - JOINTS AND FITTINGS PER AWWA C900.
 - MAINTAIN 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND WATER LINES WHERE POSSIBLE. IN AREAS WHERE THESE CRITERIA CANNOT BE MET, PROVIDE 18" OF VERTICAL SEPARATION, UNLESS OTHERWISE NOTED WITHIN THE PLANS.
 - THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF THE PROPOSED SEWER CONNECTION POINT PRIOR TO INSTALLATION OF NEW LINES. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE UTILIZING THE CORING AND RESILIENT SEAL METHOD IF NOT OTHERWISE NOTED PER LOCAL REGULATIONS.
 - THE CONTRACTOR SHALL VERIFY ANY PIPE LENGTHS, MATERIALS AND SIZES PROVIDED ON THE PLANS WITH FIELD CONDITIONS AND COORDINATE THE EXACT LOCATION OF THE BUILDING SERVICES WITH THE PLUMBING PLANS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - MINIMUM SLOPE OF 6" OF SANITARY SEWER SERVICES SHALL BE 1%. INSTALL PER INVERTS PROVIDED ON THE PLAN AND WITH A MINIMUM 48" OF COVER WITHIN ROADWAYS AND 30" OF COVER WITHIN LANDSCAPE AREAS.
 - MARK THE LOCATION OF PVC LINES WITH A #8 WIRE.
 - PROVIDE A MINIMUM OF 36" OF COVER OVER ALL WATER AND FIRE LINES.
 - ALL FIRE LINES SHALL BE INSTALLED FROM THE POINT OF CONNECTION TO THE BUILDING BY A SPRINKLER CONTRACTOR LICENSED IN THE STATE OF MO.
 - INSTALL ALL NECESSARY HORIZONTAL AND VERTICAL BENDS AND BLOCKING/RODDING ON WATER/FIRE LINES TO ACHIEVE THE PROPOSED ALIGNMENT SHOWN ON THE PLANS.
 - BEFORE CONNECTIONS ARE MADE TO EXISTING LINES, INSTALLED LINES SHALL BE FLUSHED, TESTED, AND APPROVED BY THE GOVERNING AUTHORITY IN ACCORDANCE WITH THEIR REQUIREMENTS.
 - REPAIR DAMAGE TO EXISTING FEATURES TO PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH GOVERNING AUTHORITY'S REQUIREMENTS IN A TIMELY MANNER. TRENCHES WITHIN EXISTING PAVEMENTS SHALL BE EVENLY SAW CUT FOR REMOVAL AND COMPLETELY BACKFILLED WITH CRUSHED STONE. REPAIR ROADWAYS PER GOVERNING AGENCY'S STANDARDS.
 - THE CONTRACTOR SHALL TAKE CARE TO PROPERLY COMPACT FILL WITHIN UTILITY TRENCHES AND AROUND OTHER PROJECT FEATURES TO AVOID SETTLEMENT. SETTING OR OCCURRING WITHIN 12 MONTHS OF COMPLETION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
 - EXISTING AND NEW CASTINGS SHALL BE ADJUSTED TO MATCH FINISH GRADE. CASTINGS SHALL BE SLOPED TO MATCH SLOPES OF PROPOSED PAVEMENTS AND SIDEWALKS.
 - THE CONTRACTOR SHALL COORDINATE GAS SERVICE, ELECTRICAL SERVICE, AND COMMUNICATION SERVICES WITH THE APPROPRIATE PROVIDER AND PAY NECESSARY FEES FOR INSTALLATION.
 - THE SITE ELECTRICAL INFORMATION SHOWN ON THE CIVIL DRAWINGS IS INCLUDED AS A REFERENCE ONLY, AND IS NOT PART OF THE CIVIL SCOPE ISSUED FOR CONSTRUCTION IN THESE DOCUMENTS. ALL SITE ELECTRICAL COMPONENTS INCLUDING BUT NOT LIMITED TO TRANSFORMERS, SWITCH GEARS, TERMINATING CABINETS, BLAST-FREE WALLS, GENERATORS AND PADS, SERVICE RISER POLES, DOWN-GUY WIRES, OVERHEAD SERVICE LINES AND UNDERGROUND ELECTRICAL CONDUITS ARE TO BE CONSTRUCTED PER PLANS DEVELOPED BY LOCAL ELECTRICAL SERVICE PROVIDER AND THE PROJECT ELECTRICAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMATION THAT ALL NECESSARY SITE ELECTRICAL COMPONENTS CAN BE INSTALLED IN RELATION TO ALL OTHER REQUIRED SITE FEATURES DEPICTED ON THE PLANS, AND SHALL NOTIFY THE CIVIL AND ELECTRICAL ENGINEER SHOULD A CONFLICT ARISE.



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

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

DESCRIPTION
NO. DATE

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\20240037_ERC.dwg-C3.0 INITIAL EROSION CONTROL PLAN Jan 05, 2025 mlsland



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

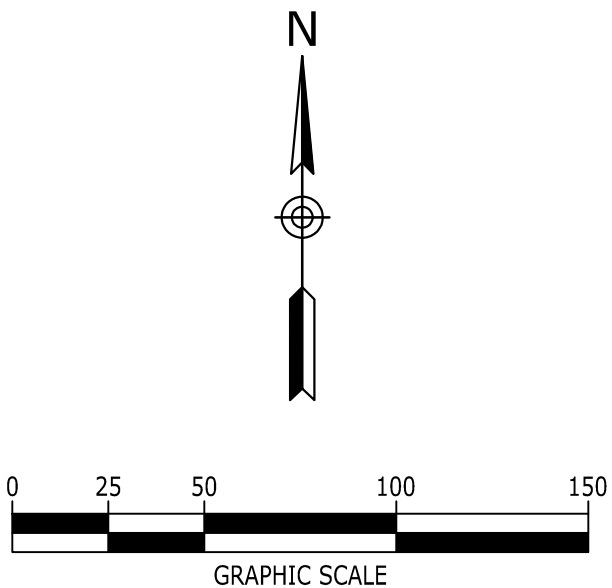
SITE DESCRIPTION AND NOTES:

THE SITE IS LOCATED ON TAX MAP 60, PARCEL 60-420-99-15-00-0-00-000 IN LEE'S SUMMIT, JACKSON COUNTY, MO. CONSTRUCTION ACTIVITY ON THIS SITE WILL CONSIST OF DISTURBING APPROXIMATELY 2.15± ACRES TO CONSTRUCT A REMOTE PARKING, PEDESTRIAN BRIDGE, AND DIETARY EXPANSION.

- APPROXIMATE CONSTRUCTION TIME TABLE:
BEGIN CONSTRUCTION - FEB 2025
COMPLETE CONSTRUCTION - MAY 2026
- CONSTRUCTION SEQUENCE:
 - ATTEND WATER QUALITY DIVISION PRE-CONSTRUCTION MEETING.
 - INSTALL CONSTRUCTION ENTRANCE AND SILT FENCE
 - CONTACT WATER QUALITY DIVISION - EROSION CONTROL INSPECTOR FOR INSPECTION OF EROSION CONTROL DEVICES TO OBTAIN GRADING PERMIT.
 - CLEAR AND GRUB THE REMAINING SITE.
 - CONSTRUCT REMAINING SITE ACCORDING TO APPROVED PLANS, INCLUDING ALL ADDITIONAL EROSION CONTROL DEVICES.
 - UPON PERMANENT SITE STABILIZATION SEED AND STRAW.
 - REMOVE ALL OTHER EROSION TEMPORARY CONTROL DEVICES PRIOR TO AS-BUILT APPROVALS.
- TOTAL PROJECT AREA = 1,066,349 SF (24.48± AC.)
DISTURBED AREA = 93,929 S.F. (2.15± AC.)

EROSION CONTROL NOTES:

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



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CONSTRUCTION DOCUMENTS
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LEE'S SUMMIT, MO. 64063
JACKSON COUNTY

NO.		DATE	DESCRIPTION

DRAWING TITLE
**INITIAL EROSION
CONTROL PLAN**
PROJECT NUMBER
20240037
DRAWING NUMBER
C3.0

Devenney
GROUP

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Catalyst
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STATE OF MISSOURI
JACK F. PARKER
NUMBER
PE-201944853
EXPIRATION
12/31/2024

IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTANT, 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 (OCTOBER 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.

INPATIENT BED
EXPANSION

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

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

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

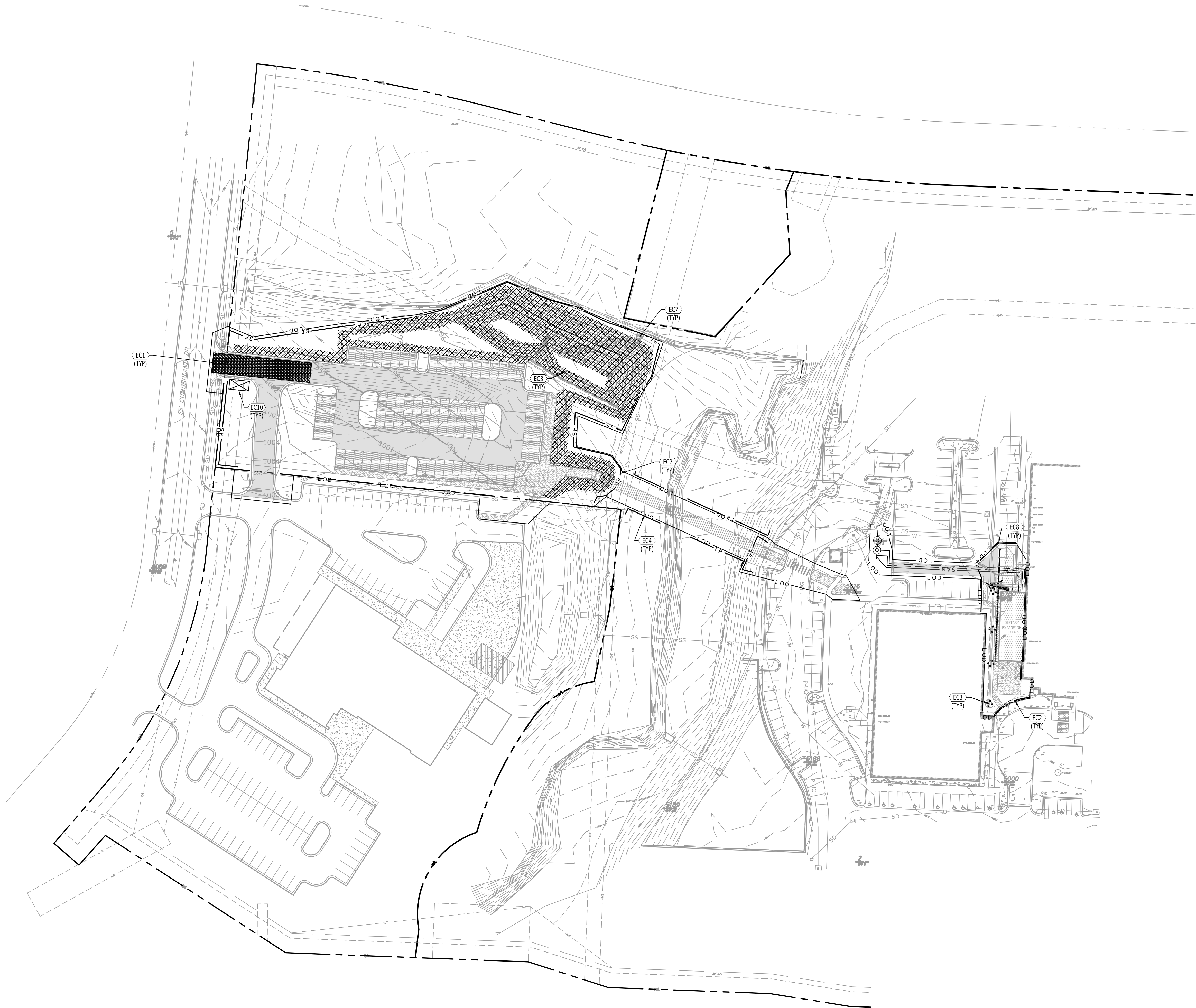
REVISIONS		
REV #	DESCRIPTION	DATE

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REVIEWED: WB
JOB NUMBER: 6406.24

INITIAL EROSION
CONTROL PLAN

C3.0

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center - Med Surg Exp\dwg\Construction\20240037_ERC.dwg-C3.1 FINAL EROSION CONTROL PLAN Jan 05, 2025 whlsard



EROSION CONTROL KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
EC1	TEMPORARY CONSTRUCTION ENTRANCE	1 / C3.2
EC2	SILT FENCE	3 / C3.2
EC3	INLET PROTECTION	4 / C3.2
EC4	TREE PROTECTION	2 / C3.2
EC7	RIPPRAP OUTLET PROTECTION	2 / C3.3
EC8	EROSION EEL	1 / C3.3
EC9	TURF REINFORCEMENT MATTING	4 / C3.3
EC10	CONCRETE WASH-OUT	3 / C3.3

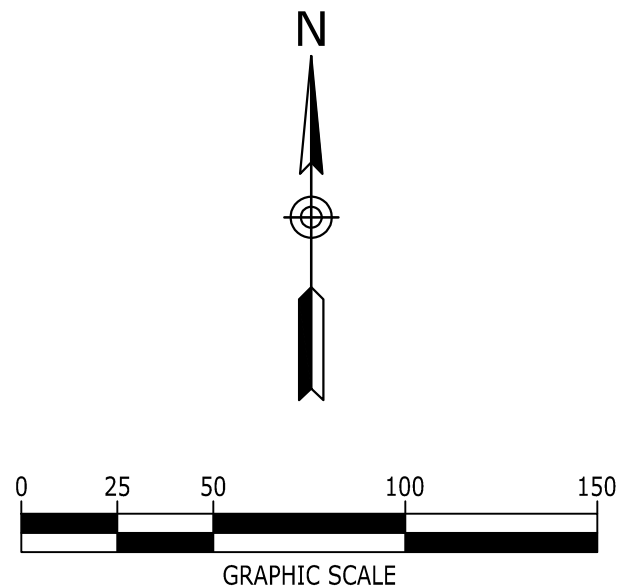
SITE DESCRIPTION AND NOTES:

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 2.15± ACRES TO CONSTRUCT A REMOTE PARKING, PEDESTRIAN BRIDGE, AND DIETARY EXPANSION.

- APPROXIMATE CONSTRUCTION TIME TABLE:
BEGIN CONSTRUCTION - FEB 2025
COMPLETE CONSTRUCTION - MAY 2026
- CONSTRUCTION SEQUENCE:
 - ATTEND WATER QUALITY DIVISION PRE-CONSTRUCTION MEETING.
 - INSTALL CONSTRUCTION ENTRANCE AND SILT FENCE
 - CONTACT WATER QUALITY DIVISION - EROSION CONTROL INSPECTOR FOR INSPECTION OF EROSION CONTROL DEVICES TO OBTAIN GRADING PERMIT.
 - CLEAR AND GRUB THE REMAINING SITE.
 - CONSTRUCT REMAINING SITE ACCORDING TO APPROVED PLANS, INCLUDING ALL ADDITIONAL EROSION CONTROL DEVICES.
 - UPON PERMANENT SITE STABILIZATION SEED AND STRAW.
 - REMOVE ALL OTHER EROSION TEMPORARY CONTROL DEVICES PRIOR TO AS-BUILT APPROVALS.
- TOTAL PROJECT AREA = 1,066,349 SF (24.48± AC.)
DISTURBED AREA = 93,929 S.F. (2.15± AC.)

EROSION CONTROL NOTES:

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



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816-282-5000

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

NO.		DATE	DESCRIPTION

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

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STATE OF MISSOURI
JACK P. PARKER
NUMBER
PE-201948833
EXPIRATION DATE
12/31/2024

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FINAL EROSION CONTROL PLAN

C3.1

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SCHEDULE OF INSPECTIONS AND MAINTENANCE NOTES

- INSPECTIONS DESCRIBED IN PARAGRAPHS 2, 3 AND 4 BELOW, SHALL BE PERFORMED AT LEAST TWICE EVERY CALENDAR WEEK. INSPECTIONS SHALL BE PERFORMED AT LEAST 72 HOURS APART. WHERE SITES OR PORTION(S) OF CONSTRUCTION SITES HAVE BEEN TEMPORARILY STABILIZED, OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (E.G., SITE COVERED WITH SNOW OR ICE) OR DUE TO EXTREME DROUGHT, SUCH INSPECTION ONLY HAS TO BE CONDUCTED ONCE PER MONTH UNTIL THAWING OR PRECIPITATION RESULTS IN RUNOFF OR CONSTRUCTION ACTIVITY RESUMES. INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS THAT HAVE BEEN FINALLY STABILIZED. WRITTEN NOTIFICATION OF THE INTENT TO CHANGE THE INSPECTION FREQUENCY AND THE JUSTIFICATION FOR SUCH REQUEST MUST BE SUBMITTED TO THE LOCAL ENVIRONMENTAL FIELD OFFICE. SHOULD TDEC DISCOVER THAT MONTHLY INSPECTIONS OF THE SITE ARE NOT APPROPRIATE DUE TO INSUFFICIENT STABILIZATION MEASURES OR OTHERWISE, TWICE WEEKLY INSPECTIONS SHALL RESUME. MODNR MAY INSPECT THE SITE TO CONFIRM OR DENY THE NOTIFICATION TO CONDUCT MONTHLY INSPECTIONS.
- QUALIFIED PERSONNEL (PROVIDED BY THE PERMITTEE OR COOPERATIVELY BY MULTIPLE PERMITTEES) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL.
- DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE SITE'S DRAINAGE SYSTEM. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY.
- OUTFALL POINTS (WHERE DISCHARGES LEAVE THE SITE AND/OR ENTER WATERS OF THE STATE) SHALL BE INSPECTED TO DETERMINE WHETHER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.
- BASED ON THE RESULTS OF THE INSPECTION, ANY INADEQUATE CONTROL MEASURES OR CONTROL MEASURES IN DISREPAIR SHALL BE REPLACED OR MODIFIED, OR REPAIRED AS NECESSARY, BEFORE THE NEXT RAIN EVENT, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE NEED IS IDENTIFIED.
- BASED ON THE RESULTS OF THE INSPECTION, THE SITE DESCRIPTION AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THIS SWPPP SHALL BE REVISED AS APPROPRIATE, BUT IN NO CASE LATER THAN 7 DAYS FOLLOWING THE INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE SWPPP, BUT IN NO CASE LATER THAN 14 DAYS FOLLOWING THE INSPECTION.
- ALL INSPECTIONS SHALL BE DOCUMENTED ON THE CONSTRUCTION STORMWATER INSPECTION CERTIFICATION FORM PROVIDED IN APPENDIX D OF THE SWPPP REPORT FOR ALL CONSTRUCTION SITES. INSPECTION DOCUMENTATION WILL BE MAINTAINED ON SITE AND MADE AVAILABLE TO TDEC UPON REQUEST. INSPECTION REPORTS MUST BE SUBMITTED TO TDEC WITHIN 10 DAYS OF THE REQUEST. IF MODNR REQUESTS THE CONSTRUCTION STORMWATER INSPECTION CERTIFICATION FORM TO BE SUBMITTED, THE SUBMITTED FORM MUST CONTAIN THE PRINTED NAME AND SIGNATURE OF THE TRAINED CERTIFIED INSPECTOR AND THE PERSON WHO MEETS THE SIGNATORY REQUIREMENTS OF SECTION 7.7.2 OF THE NPDES GENERAL PERMIT.
- TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION DOCUMENTATION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES.
- SUBSEQUENT OPERATOR(S) (PRIMARY PERMITTEES) WHO HAVE OBTAINED COVERAGE UNDER THE NPDES GENERAL PERMIT SHOULD CONDUCT TWICE WEEKLY INSPECTIONS, UNLESS THEIR PORTION(S) OF THE SITE HAS BEEN TEMPORARILY STABILIZED, OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS OR DUE TO EXTREME DROUGHT AS STATED IN PARAGRAPH A) ABOVE. THE PRIMARY PERMITTEE (SUCH AS A DEVELOPER) IS NO LONGER REQUIRED TO CONDUCT INSPECTIONS OF PORTIONS OF THE SITE THAT ARE COVERED BY A SUBSEQUENT PRIMARY PERMITTEE (SUCH AS A HOME BUILDER).

SITE ASSESSMENT NOTES

- THE SITE ASSESSMENT SHALL BE PERFORMED BY INDIVIDUALS WITH THE FOLLOWING QUALIFICATIONS:
 - A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
 - A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC) OR
 - A PERSON THAT SUCCESSFULLY COMPLETED THE "LEVEL II DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE.
- QUALITY ASSURANCE OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE DONE BY PERFORMING SITE ASSESSMENT AT A CONSTRUCTION SITE. THE SITE ASSESSMENT SHALL BE CONDUCTED AT EACH OUTFALL INVOLVING DRAINAGE TOTALING 10 OR MORE ACRES OR 5 OR MORE ACRES IF DRAINING TO AN IMPAIRED OR EXCEPTIONAL QUALITY WATERS, WITHIN A MONTH OF CONSTRUCTION COMMENCING AT EACH PORTION OF THE SITE THAT DRAINS THE QUALIFYING ACREAGE OF SUCH PORTION OF THE SITE.
- AS A MINIMUM, SITE ASSESSMENT SHOULD BE PERFORMED TO VERIFY THE INSTALLATION, FUNCTIONALITY AND PERFORMANCE OF THE EPPC MEASURES DESCRIBED IN THE SWPPP REPORT. THE SITE ASSESSMENT SHOULD BE PERFORMED WITH THE INSPECTOR, AND SHOULD INCLUDE A REVIEW AND UPDATE (IF APPLICABLE) OF THE SWPPP REPORT. MODIFICATIONS OF PLANS AND SPECIFICATIONS FOR ANY BUILDING OR STRUCTURE, INCLUDING THE DESIGN OF SEDIMENT BASINS OR OTHER SEDIMENT CONTROLS INVOLVING STRUCTURAL, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT AND STAMPED AND CERTIFIED IN ACCORDANCE WITH THE TENNESSEE CODE ANNOTATED, TITLE 62, CHAPTER 2 AND THE RULES OF THE TENNESSEE BOARD OF ARCHITECTURAL AND ENGINEERING EXAMINERS.
- THE SITE ASSESSMENT FINDINGS SHALL BE DOCUMENTED AND THE DOCUMENTATION KEPT WITH THE SWPPP REPORT AT THE SITE. AT A MINIMUM, THE DOCUMENTATION SHALL INCLUDE INFORMATION INCLUDED IN THE INSPECTION FORM PROVIDED IN APPENDIX D OF THE SWPPP REPORT. THE DOCUMENTATION MUST CONTAIN THE PRINTED NAME AND SIGNATURE OF THE INDIVIDUAL PERFORMING THE SITE ASSESSMENT AND THE FOLLOWING CERTIFICATION:

"I CERTIFY UNDER PENALTY OF LAW THAT THIS REPORT AND ALL ATTACHMENTS ARE, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."
- THE SITE ASSESSMENT CAN TAKE THE PLACE OF ONE OF THE TWICE WEEKLY INSPECTIONS REQUIREMENT.
- MODNR MAY REQUIRE ADDITIONAL SITE ASSESSMENT(S) TO BE PERFORMED IF SITE INSPECTION BY MODNR'S PERSONNEL REVEALS SITE CONDITIONS THAT HAVE POTENTIAL OF CAUSING POLLUTION TO THE WATERS OF THE STATE.

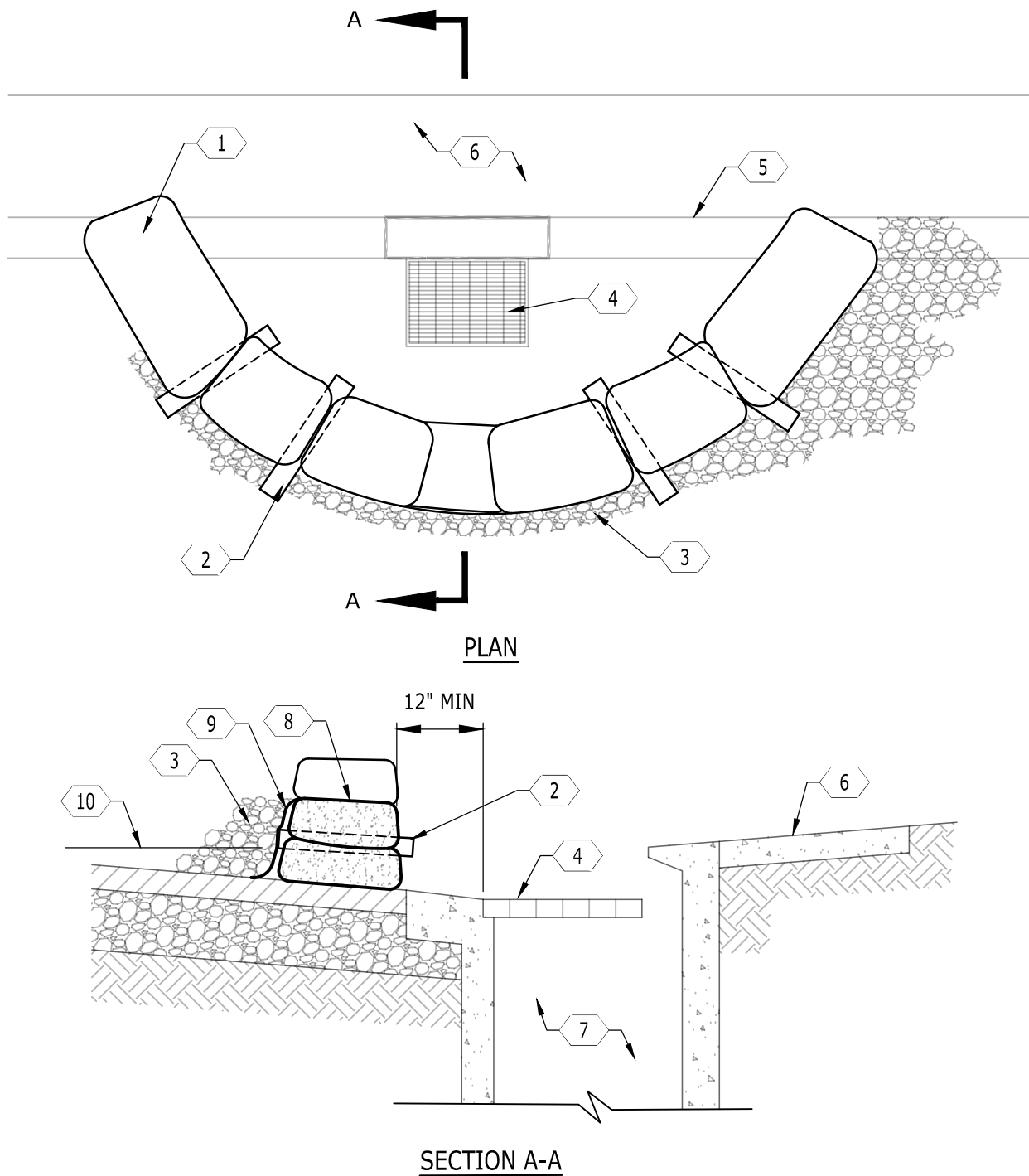
NOTE:

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

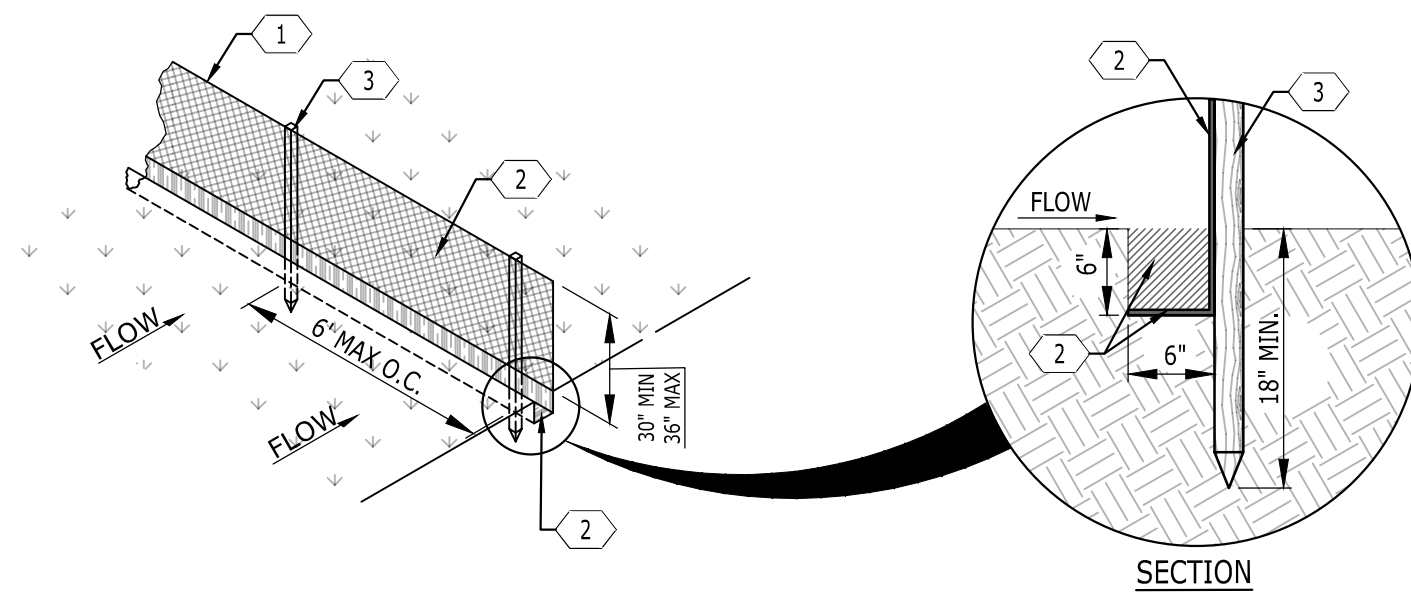
- A COPY OF THE NOTICE OF COVERAGE WITH THE NPDES PERMIT NUMBER (FURNISHED BY ENGINEER).
- THE NAME AND TELEPHONE NUMBER OF A LOCAL CONTACT PERSON (FURNISHED BY CONSTRUCTION MANAGER).
- DESCRIPTION OF PROJECT (FURNISHED BY CONSTRUCTION MANAGER).

KEYNOTES	
CODE	DESCRIPTION
1	SAND BAGS; OVERLAP ONTO CURB
2	PVC PIPE; 2"-3" DIA.; PLACE BETWEEN FIRST AND SECON LAYERS OF SAND BAGS (TYP.)
3	CLEAN, WASHED, STONE FILTER (1/2" DIA. NOMINAL SIZE GRAVEL OR APPROVED EQUAL); LINE ENTIRE OUTER PERIMETER OF THE SANDBAG BARRIER;
4	CURB INLET
5	BACK OF CURB
6	SIDEWALK
7	CATCH BASIN
8	SPILLWAY
9	FILTER FABRIC
10	ALLOWABLE PONDING ELEV.

NOTE:
1. NOT APPLICABLE IN AREAS OF HIGH SILTS AND CLAYS WITHOUT USE OF FILTER FABRIC LAYER.
2. PERIODICALLY REMOVE AND REPLACE GRAVEL. OLD GRAVEL MAY BE USED AS BACKFILL MATERIAL IF APPROVED BY THE ENGINEER.

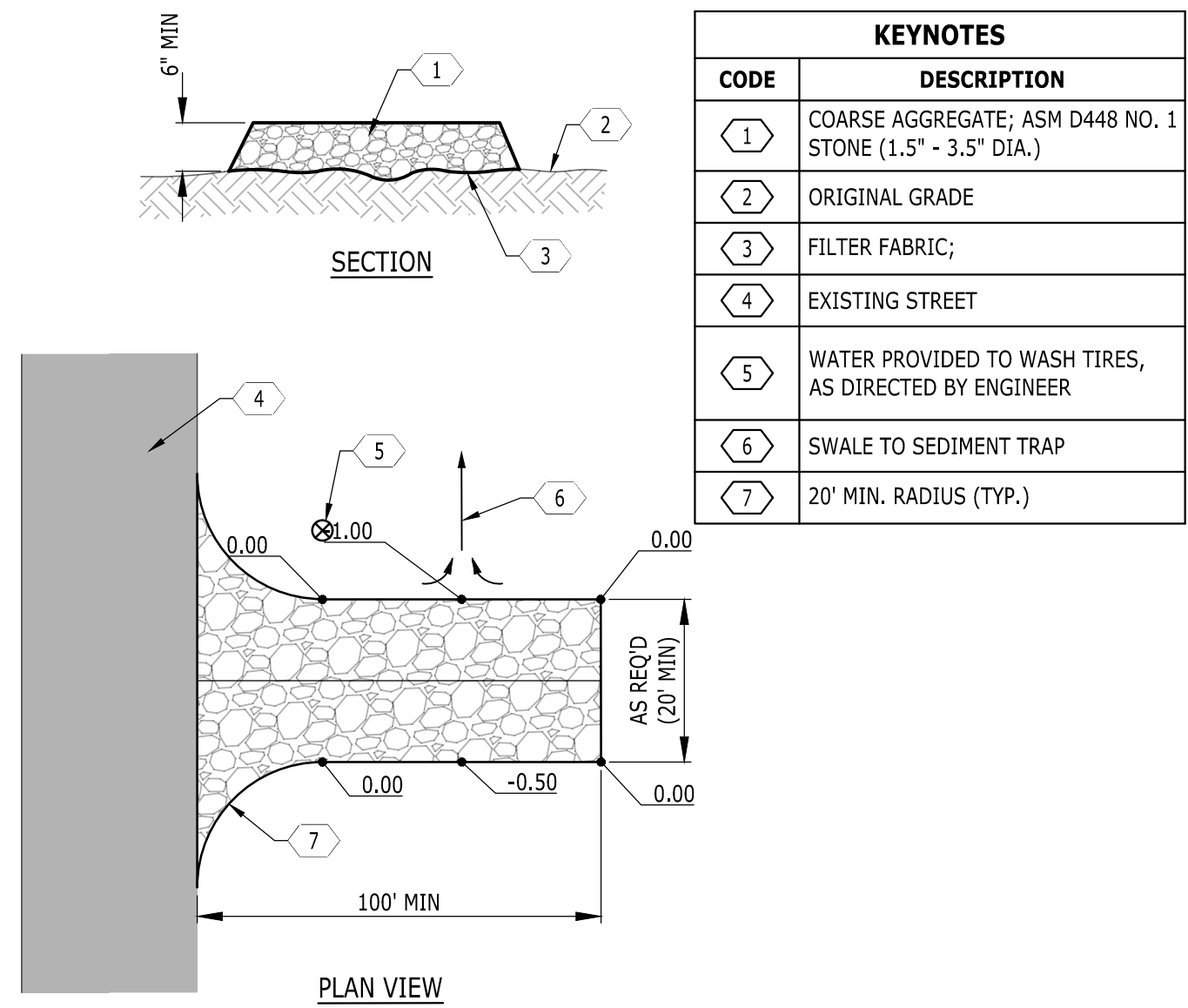


4 SAND BAG CURB INLET PROTECTION

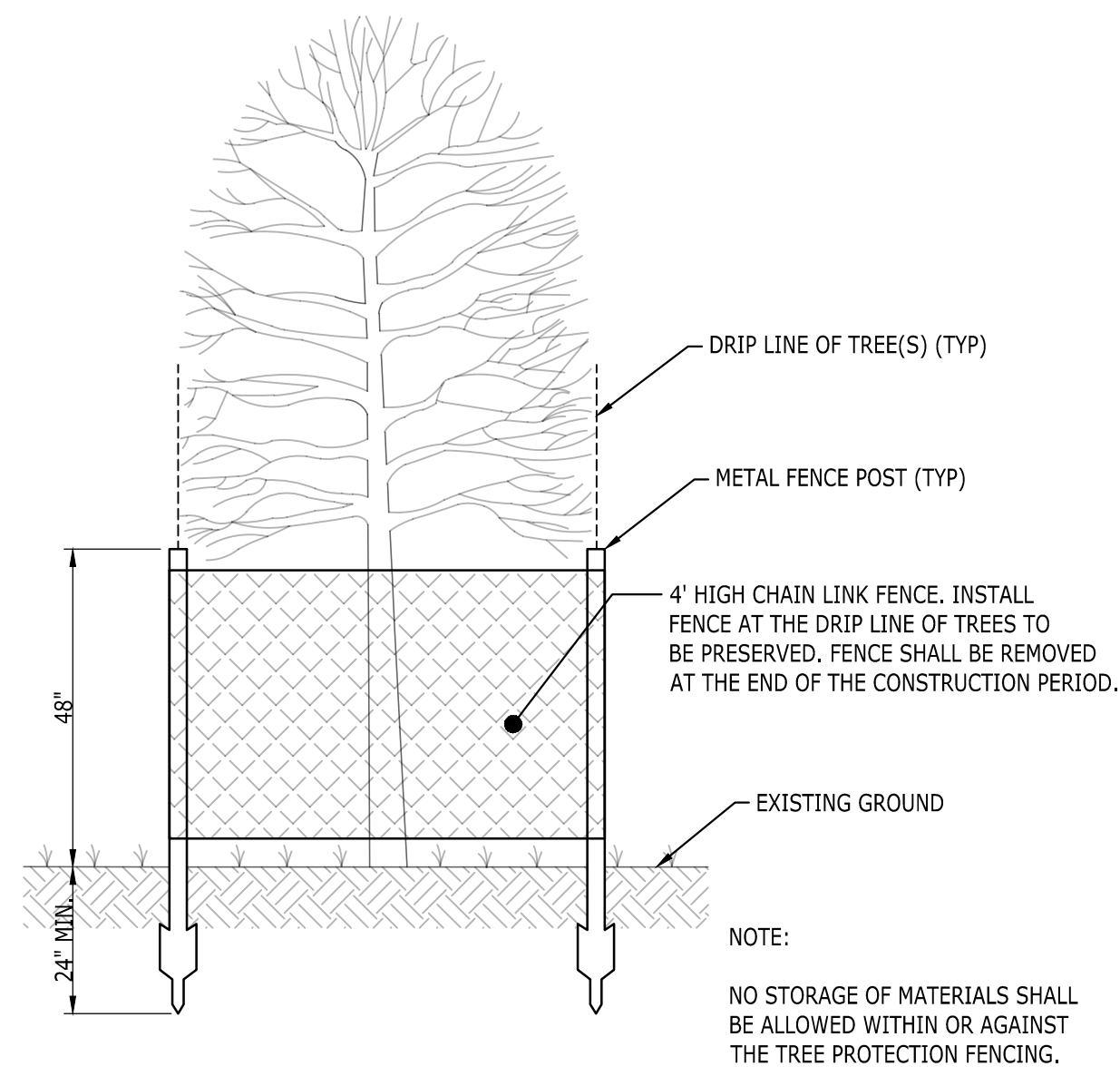


KEYNOTES	
CODE	DESCRIPTION
1	WOVEN WIRE FENCE BACKING FOR TYPE "B" SILT FENCE ONLY
2	ENGINEERING FILTER FABRIC*; BURY BOTTOM OF FABRIC IN 6"x6" TRENCH; BACKFILL TRENCH WITH SOIL AND COMPACT
3	POST; WOOD (2"x2" MIN.) OR STEEL T-POST (1.3 LB./FT. MIN.)
4	98' MAXIMUM RECOMMENDED SLOPE LENGTH
5	LEVEL CONTOUR; INSTALL SILT FENCE ALONG A LEVEL CONTOUR
6	MAX. TRIBUTARY AREA: 0.25 Ac. / 100 FT. OF FENCE
7	TURN LAST 6' OF FENCE UP SLOPE

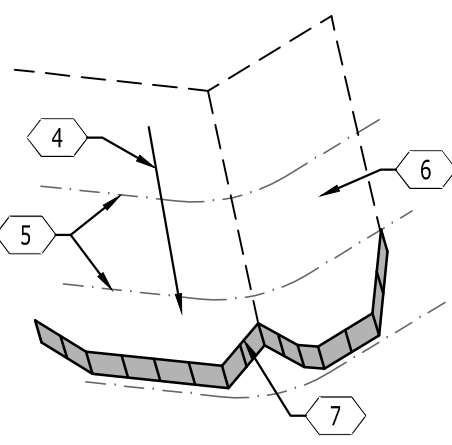
3 SILT FENCE - TYPES A & B



1 TEMPORARY CONSTRUCTION ENTRANCE



2 TREE PROTECTION



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



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DESCRIPTION	
NO.	DATE

DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
DETAILS

PROJECT NUMBER
20240037

DRAWING NUMBER

C3.2

Devenney
GROUP

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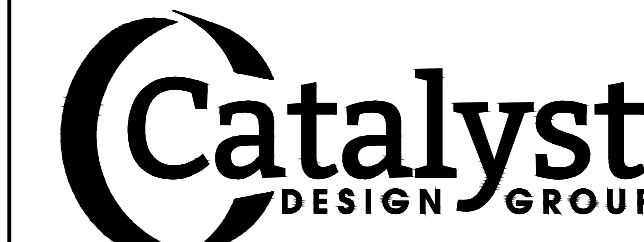
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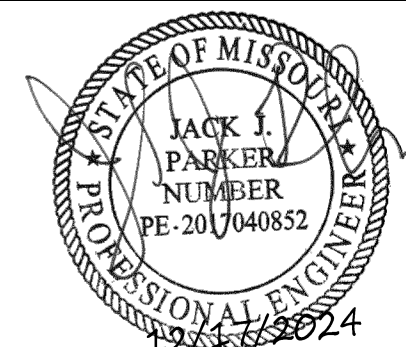
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C3.3

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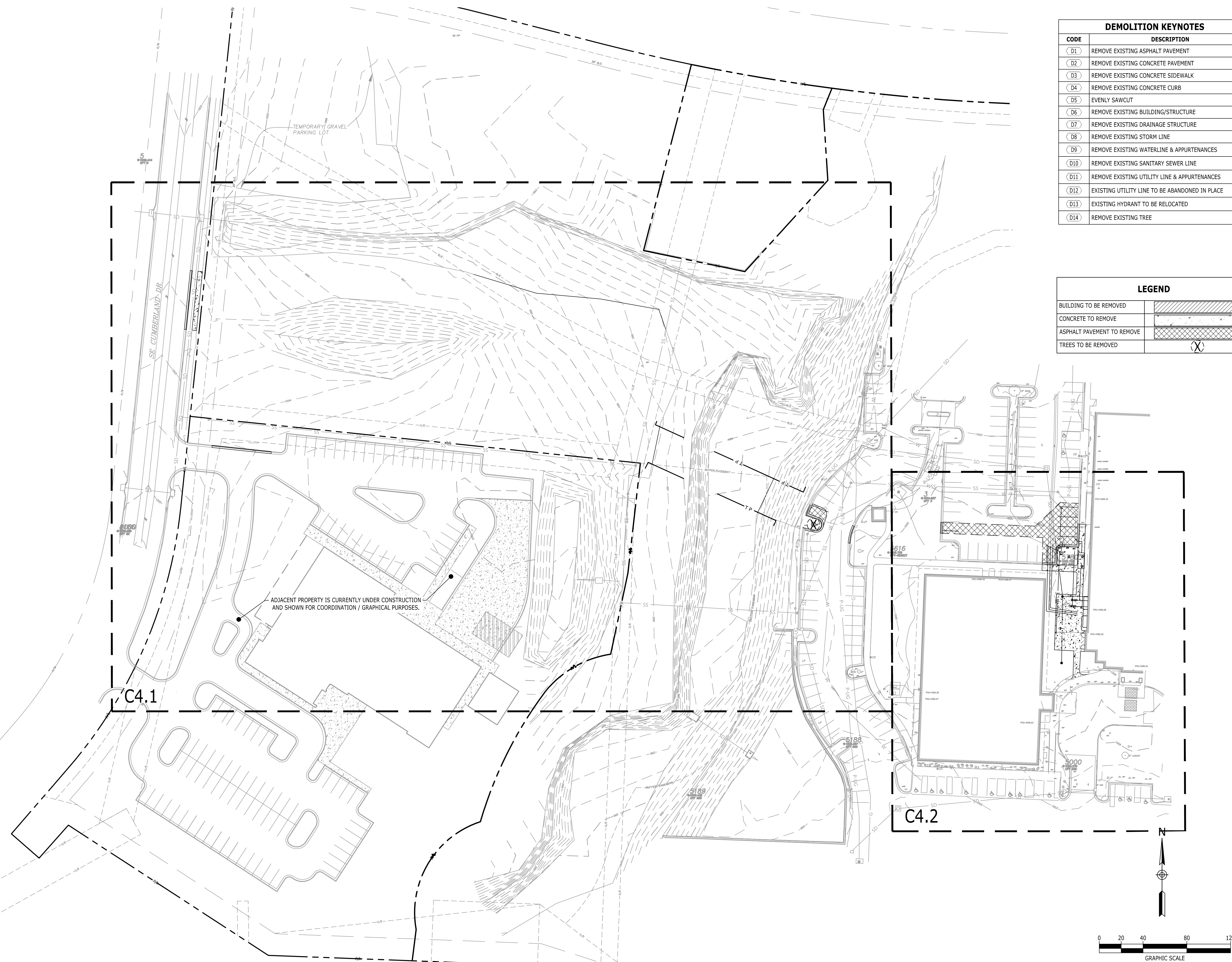
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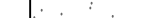
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OVERALL
DEMOLITION PLAN

C4.0



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	



Catalyst
DESIGN GROUP

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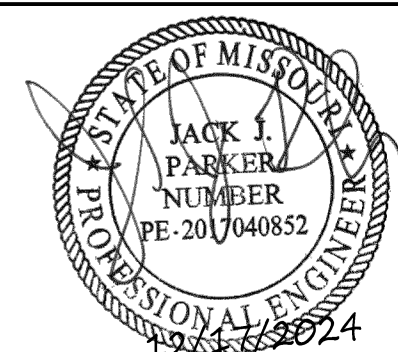
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OVERALL
DEMOLITION PLAN

PROJECT NUMBER	20240037
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DRAWING NUMBER

C4.0



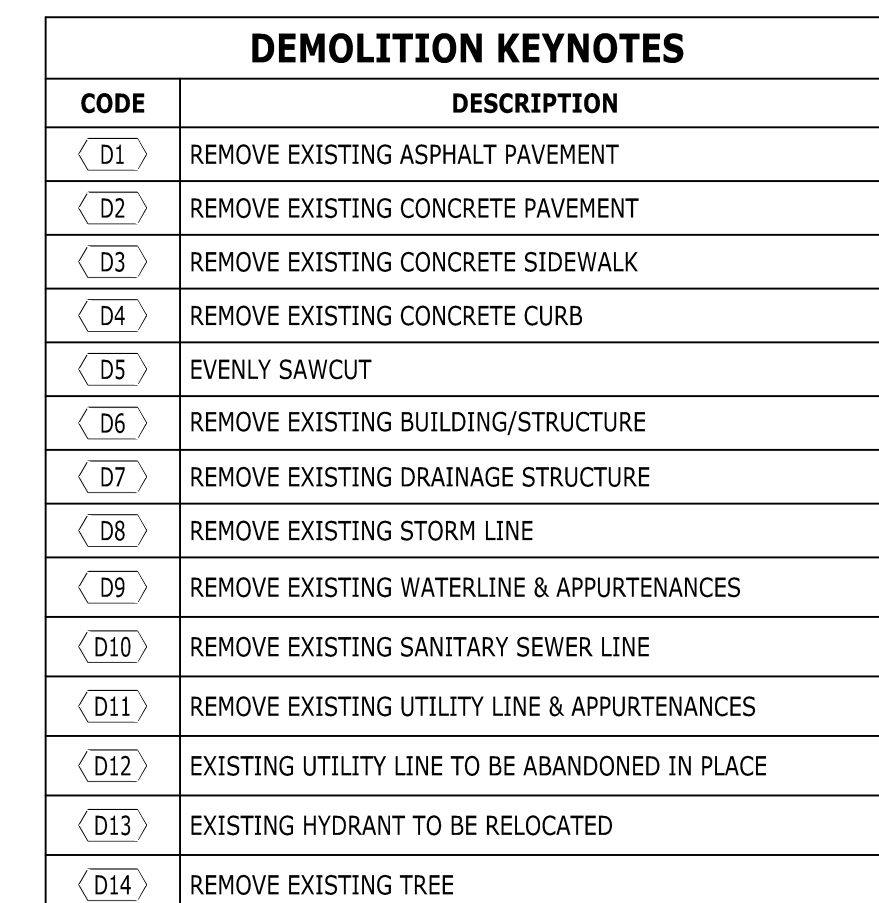
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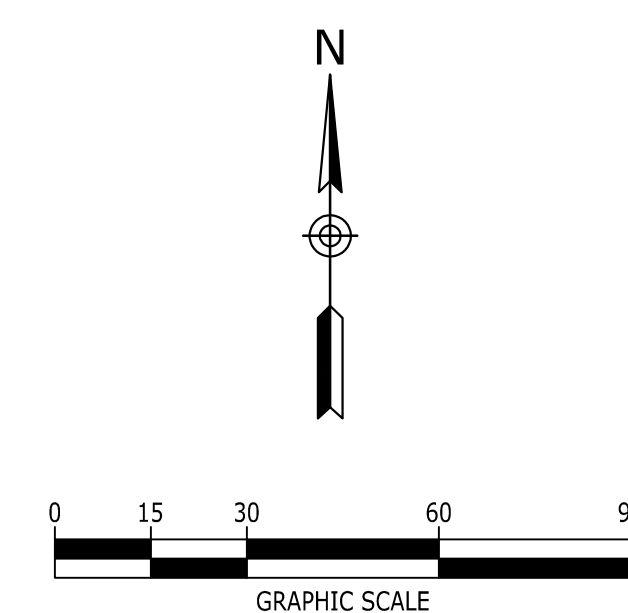
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AGENCY

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SCALE:	1:100
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REVIEWED:	
JOB NUMBER:	6400000000

C4.1



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



Catalyst
DESIGN GROUP

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816-282-5000

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

[illegible]

DRAWING TITLE

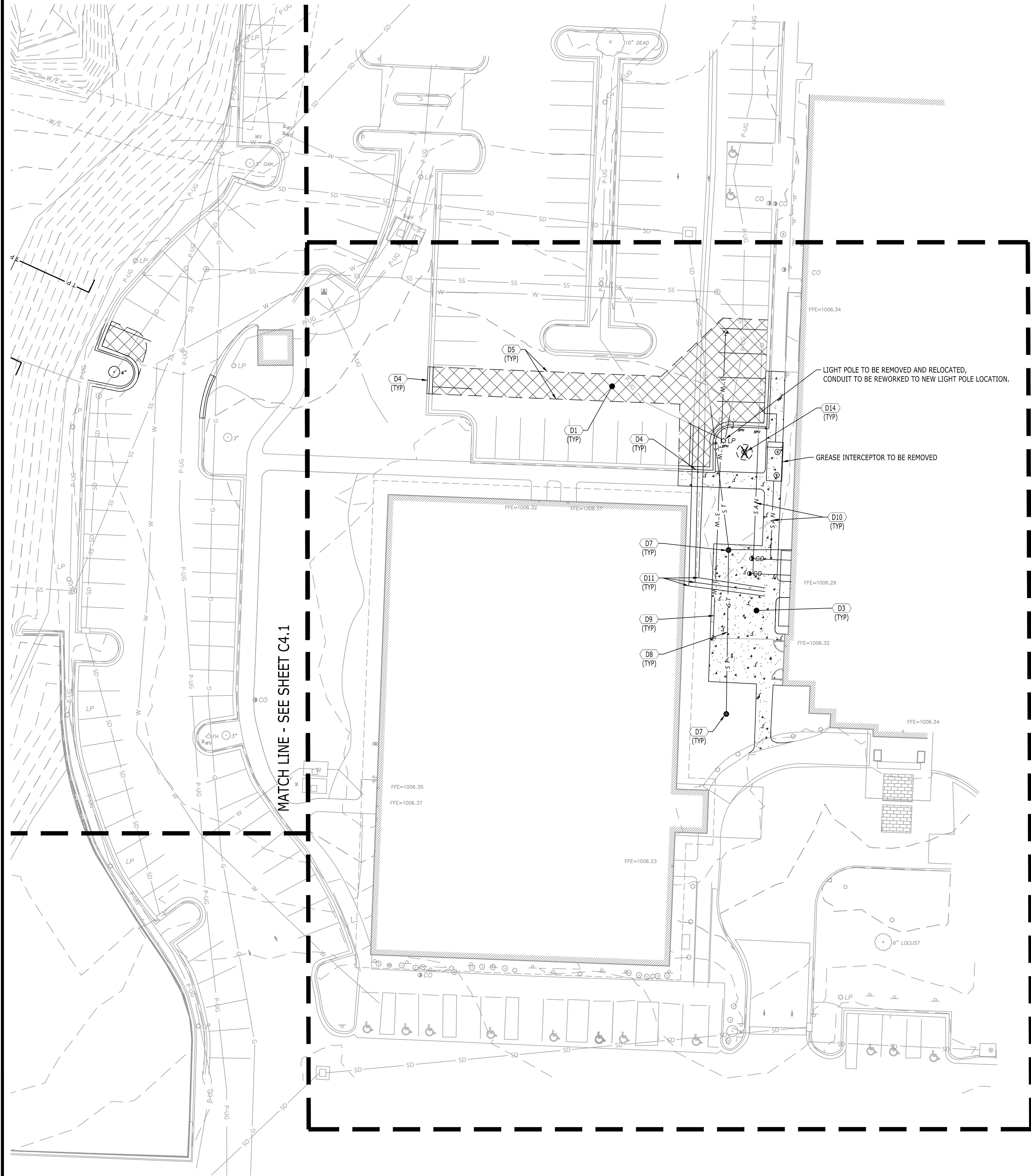
DETAILED
DEMOLITION PLAN

PROJECT NUMBER	20240037
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DRAWING NUMBER

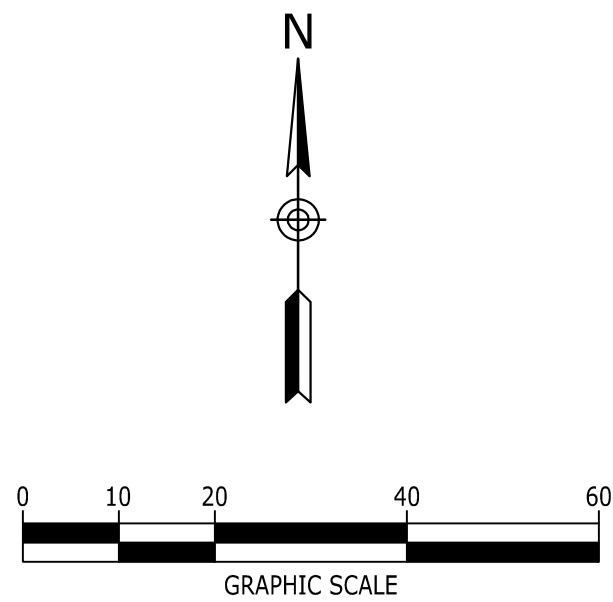
C4.1

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\20240037_DEM.dwg-C4.2 DETAILED DEMOLITION PLAN Jan 05, 2025 mblissard



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

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



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JACKSON COUNTY

REVISIONS	
REV #	DESCRIPTION

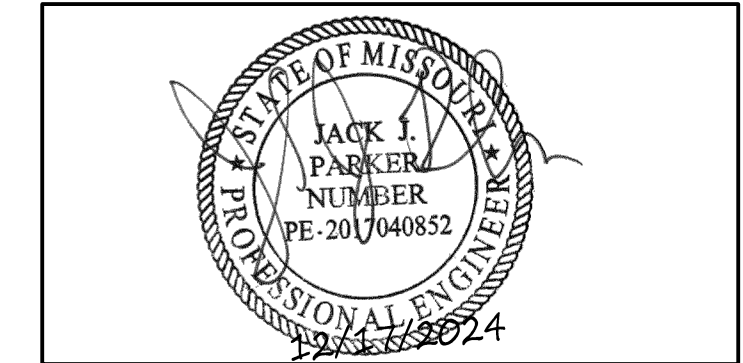
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DETAILED
DEMOLITION PLAN
PROJECT NUMBER
20240037
DRAWING NUMBER
C4.2

Devenney
GROUP

Devenney Group Ltd., Architects
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Consultant:

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AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

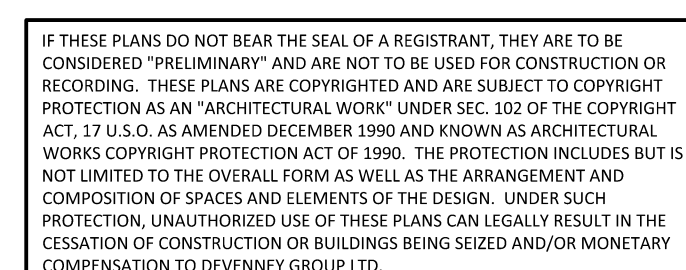
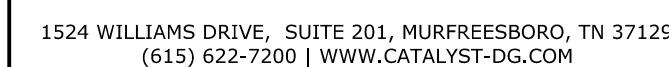
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REVIEWED: WB
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DETAILED
DEMOLITION PLAN

C4.2

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Consultant



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AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

DATE:	2024/12/01
SCALE:	1:4
DRAWN:	A
REVIEWED:	W
JOB NUMBER:	6406.2

OVERALL LAYOUT PLAN

C5.0



**THE SUMMIT
MEDICAL CENTER
116-282-5000**

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

[illegible]

DRAWING TITLE

OVERALL LAYOUT PLAN

PROJECT NUMBER	20240037
----------------	----------

DRAWING NUMBER

C5.0

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

SITE DATA

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

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

PARKING SUMMARY

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

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

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

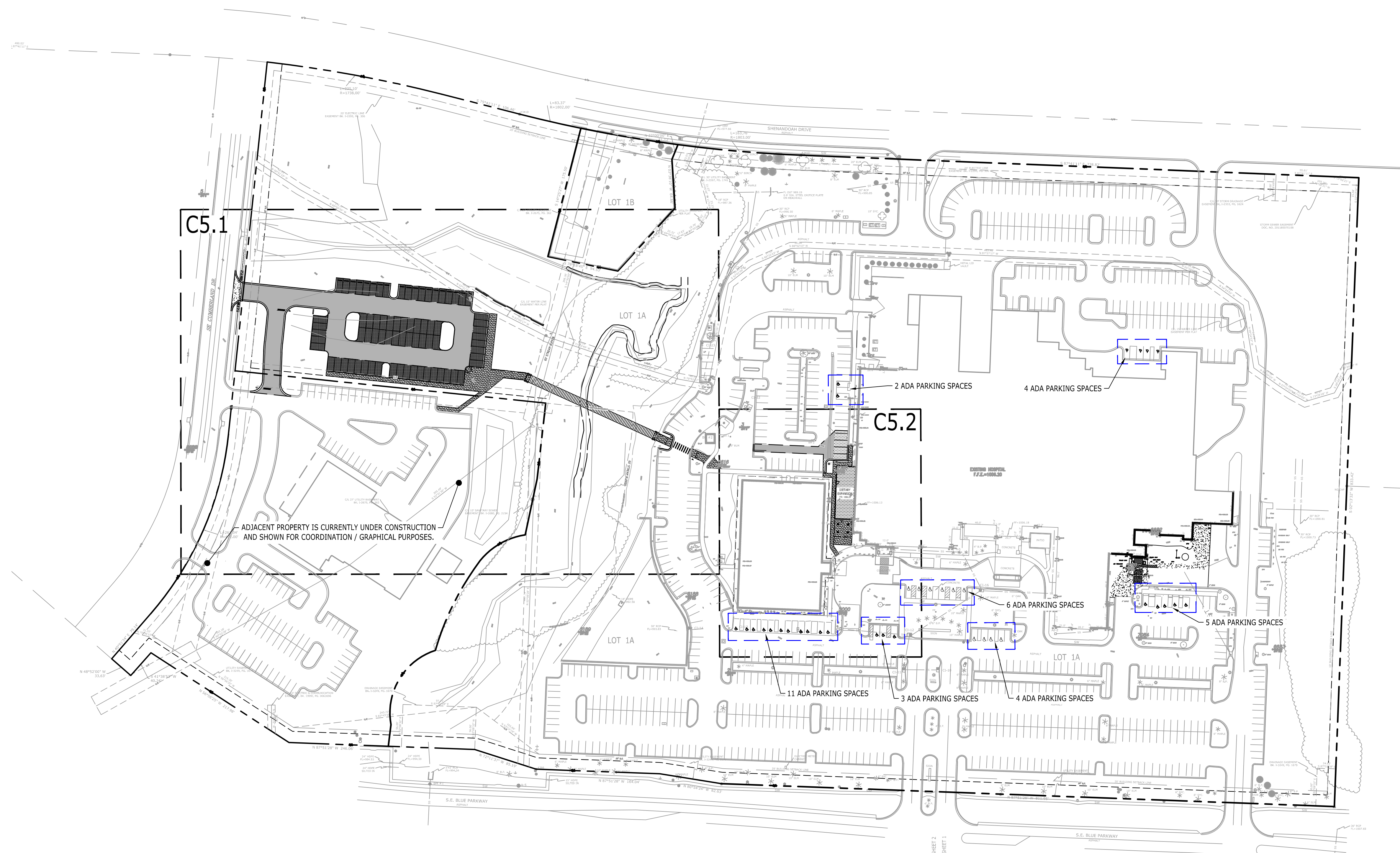
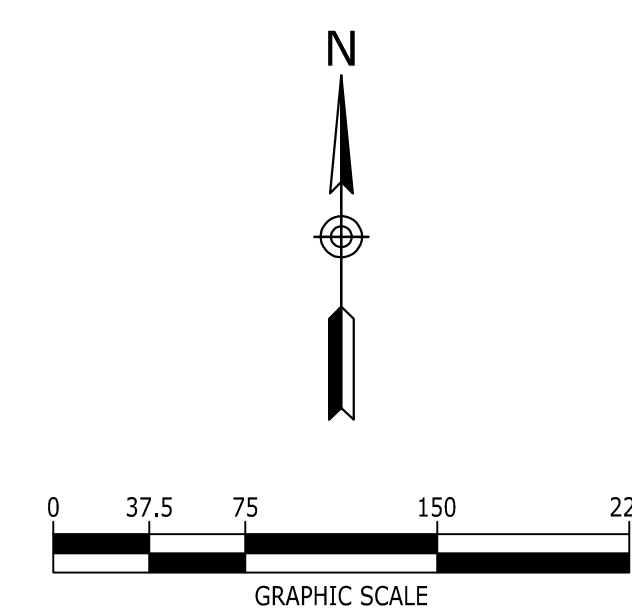
PARKING PROVIDED:	
STANDARD PARKING:	795 SPACES
ADA PARKING:	<u>35 SPACES</u>
TOTAL PROVIDED PARKING:	<u>825 SPACES</u>

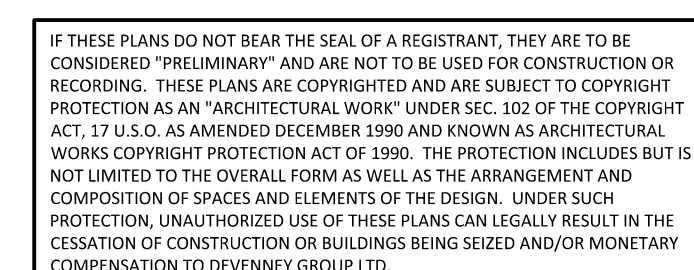
THE 35 EXISTING ADA SPACES EXCEED THE ADA PARKING REQUIREMENTS (30 ADA SPACES) WITH THE REMOTE PARKING LOT ADDITION.

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

PROJECT REPRESENTATIVE: CATALYST DESIGN GROUP
ADDRESS: 1524 WILLIAMS DRIVE
MURFREESBORO, TN 3712
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.



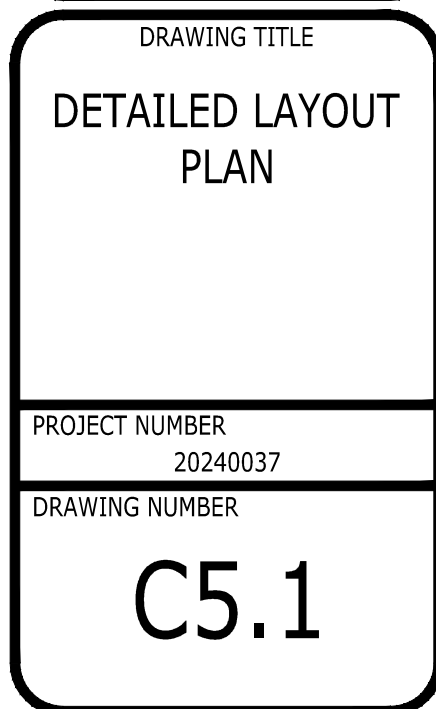




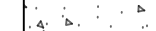
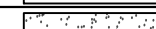

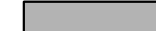


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AGENCY APPROVALS:
AGENCY

DATE:	2024/12/01
SCALE:	1:3
DRAWN:	A
REVIEWED:	W
JOB NUMBER:	6406.2

C5.1



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



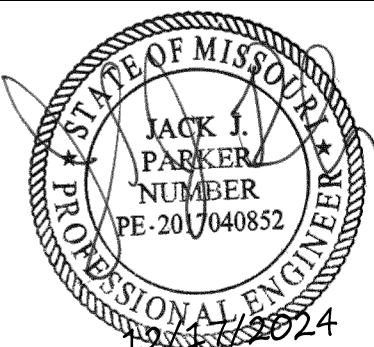
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AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

0972400009

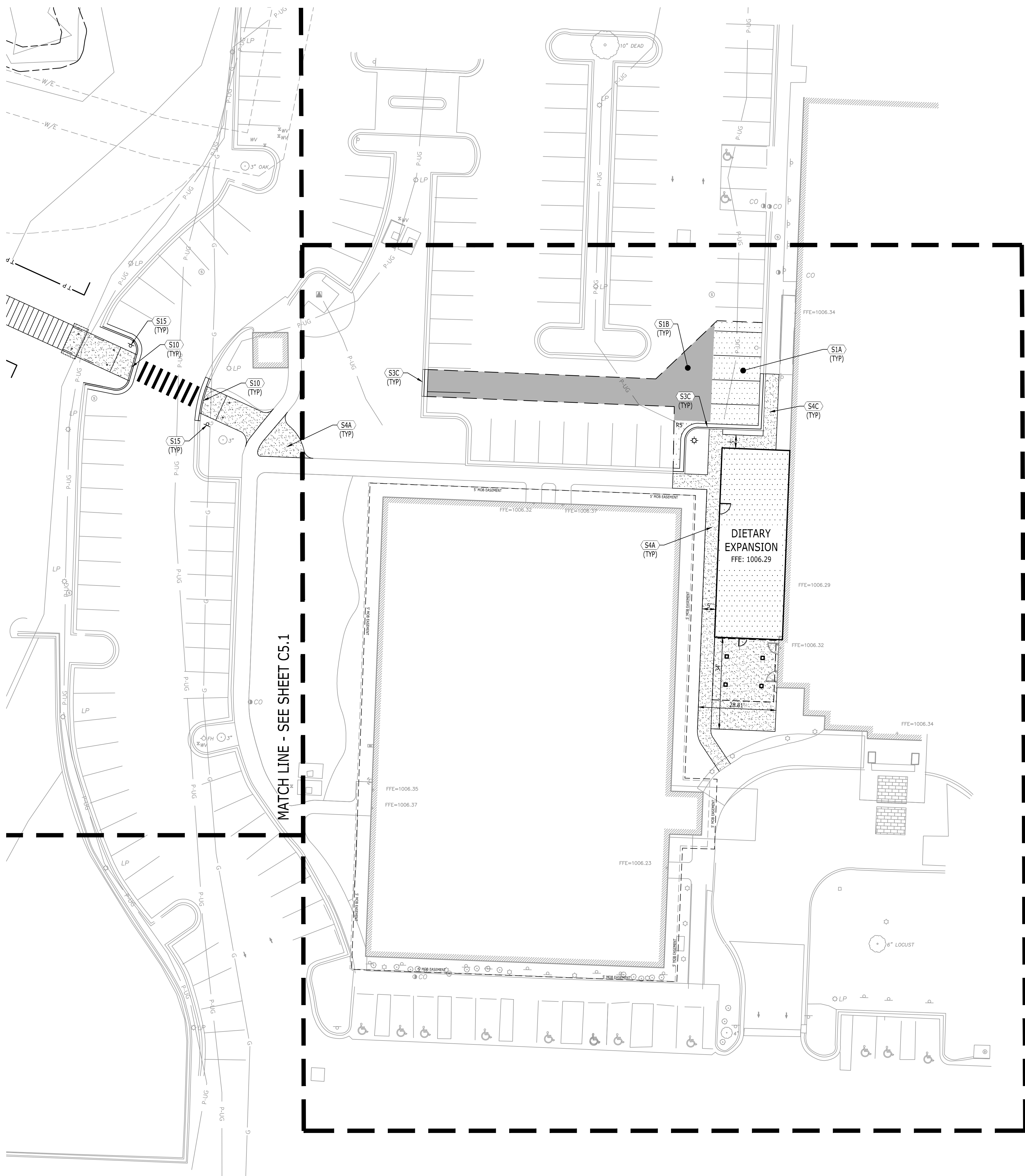
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REVISIONS		
REV #	DESCRIPTION	DATE




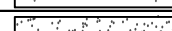



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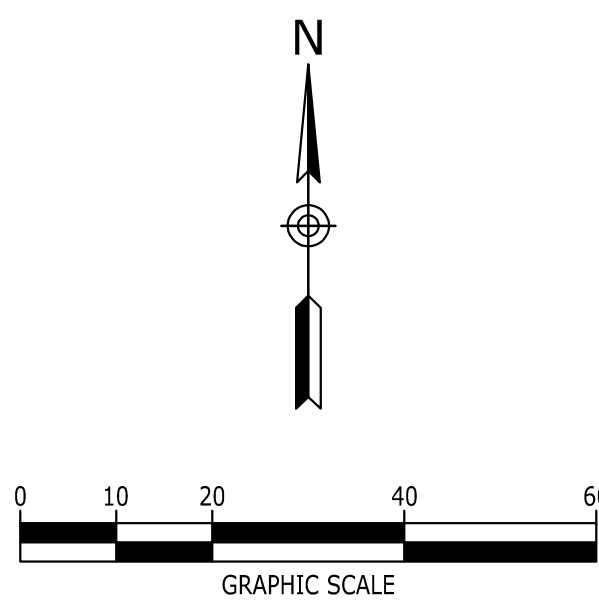
DETAILED LAYOUT PLAN

C5.2



SITE LAYOUT KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
(S1A)	ASPHALT PAVEMENT - LIGHT DUTY	1 / CR.0
(S1B)	ASPHALT PAVEMENT - HEAVY DUTY	1 / CR.0
(S3B)	CONCRETE POST CURB	10 / CR.0
(S3C)	CONCRETE CURB & GUTTER	2 / CR.0
(S4A)	CONCRETE SIDEWALK	5 / CR.0
(S4B)	CONCRETE SIDEWALK WITH TURN DOWN CURB	8 / CR.0
(S4C)	CONCRETE SIDEWALK AT CURB & GUTTER	3 / CR.0
(S5)	SIDEWALK JOINTS	6 / CR.0
(S6)	CONCRETE FLUME	2 / CR.1
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(S14)	BOLLARD	12 / CR.0
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(S21)	CONCRETE WHEEL STOP	8 / CR.1
(S22)	ELEVATED WALL (WITH GUARDRAIL)	1 & 2 / CR.2

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



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816-282-5000

CONSTRUCTION DOCUMENTS
HCA LEE'S SUMMIT
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2000 SE SHENANDOAH DRIVE
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JACKSON COUNTY

DRAWING TITLE

DETAILED LAYOUT
PLAN

PROJECT NUMBER
20240037

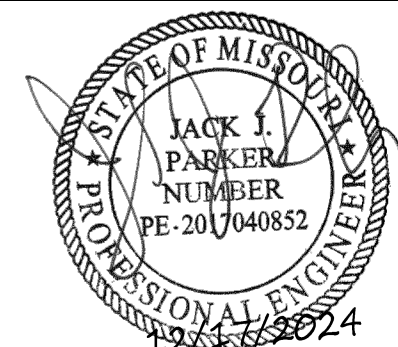
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AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER
0972400009

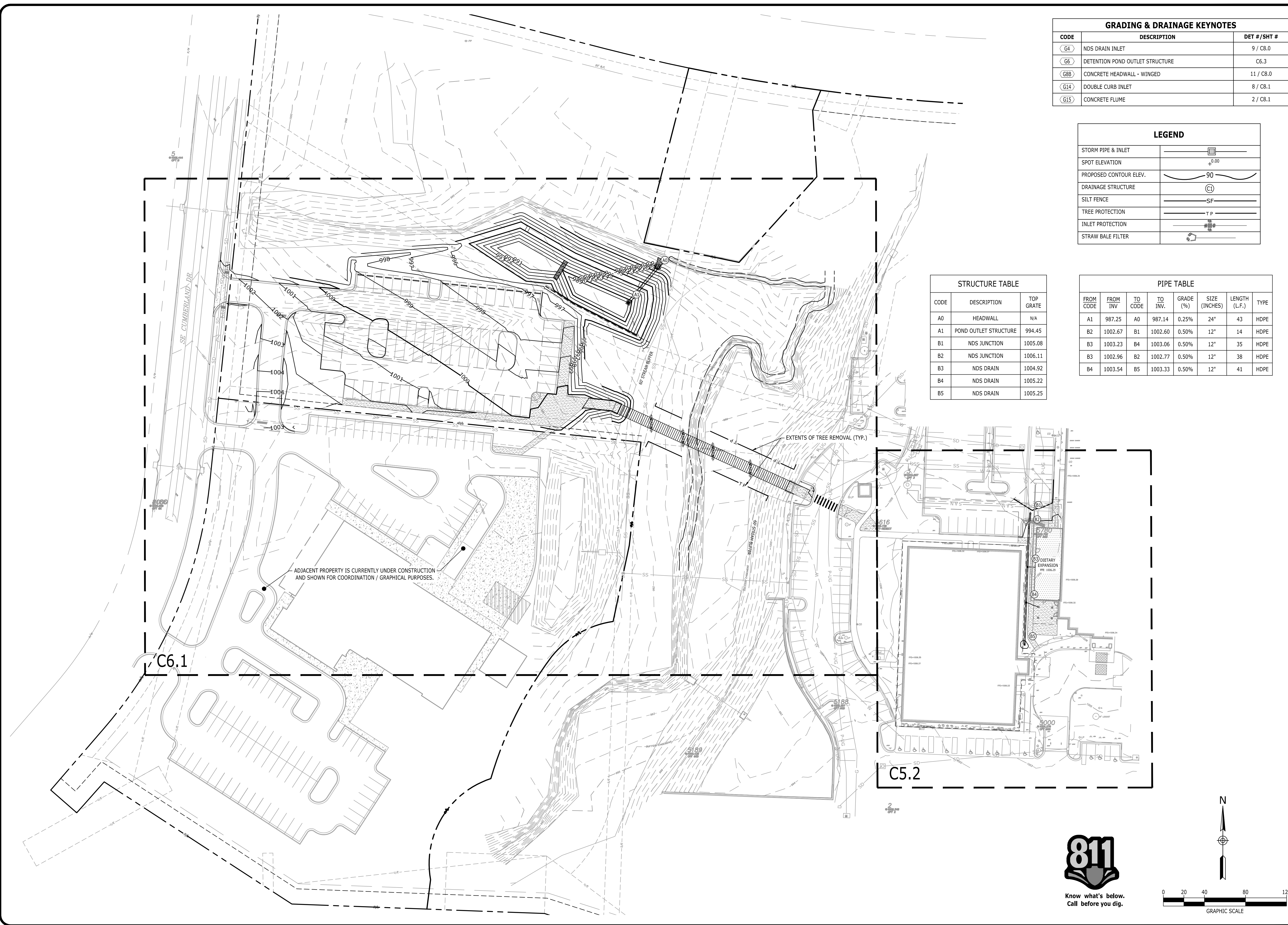
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AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE



DATE:	2024/12/05
SCALE:	1:40
DRAWN:	AP
REVIEWED:	WB
JOB NUMBER:	6406.24

OVERALL GRADING &
DRAINAGE PLAN

C6.0



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

LEGEND	
STORM PIPE & INLET	
SPOT ELEVATION	+0.00
PROPOSED CONTOUR ELEV.	90
DRAINAGE STRUCTURE	(C1)
SILT FENCE	SF
TREE PROTECTION	T P
INLET PROTECTION	中排管 管
STRAW BALE FILTER	

STRUCTURE TABLE		
CODE	DESCRIPTION	TOP GRATE
A0	HEADWALL	N/A
A1	POND OUTLET STRUCTURE	994.45
B1	NDS JUNCTION	1005.08
B2	NDS JUNCTION	1006.11
B3	NDS DRAIN	1004.92
B4	NDS DRAIN	1005.22
B5	NDS DRAIN	1005.25

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

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LEE'S SUMMIT, MO 64063
816-282-5000

CONSTRUCTION DOCUMENTS
HCA LEE'S SUMMIT
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LEE'S SUMMIT, MO, 64063
JACKSON COUNTY

[illegible]

DRAWING TITLE

OVERALL GRADING &
DRAINAGE PLAN

PROJECT NUMBER	20240037
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DRAWING NUMBER

C6.0

DRAWING TITLE

OVERALL GRADING & DRAINAGE PLAN

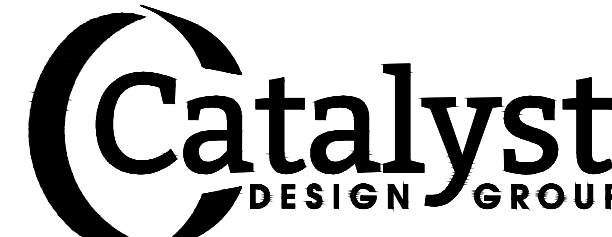
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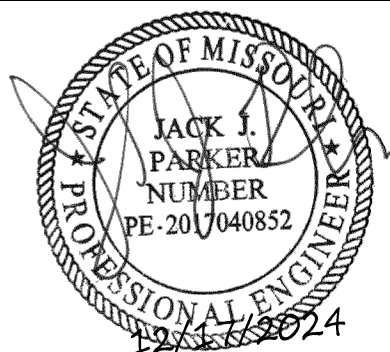


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6900 East Camelback Road
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Scottsdale, AZ 85251
T: 602.943.8950
www.devenneygroup.com

Consultant:



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INPATIENT BED EXPANSION

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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

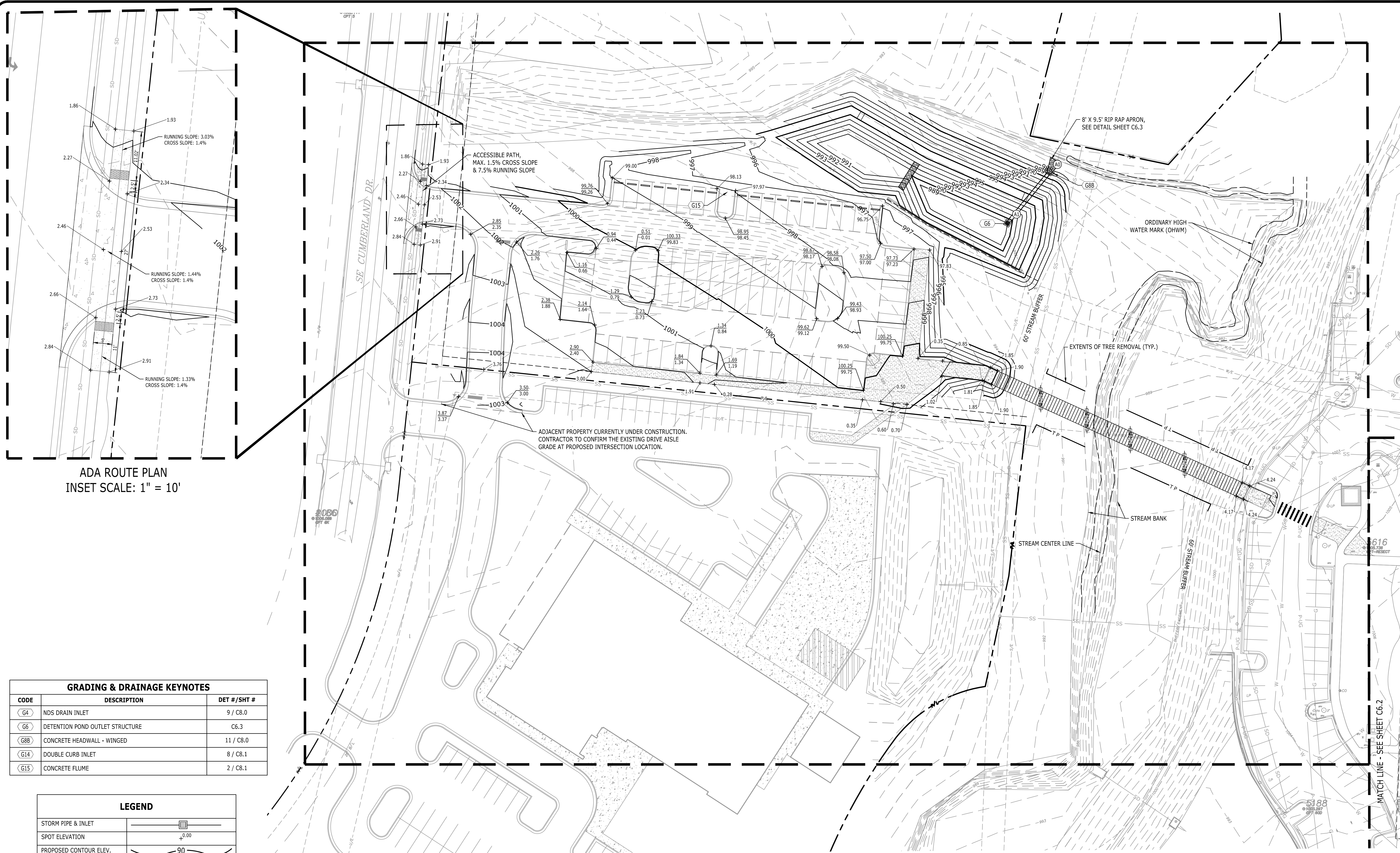
AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 2024/12/05
SCALE: 1:30
DRAWN: AP
REVIEWED: WB
JOB NUMBER: 6406.24

DETAILED GRADING
& DRAINAGE PLAN

C6.1



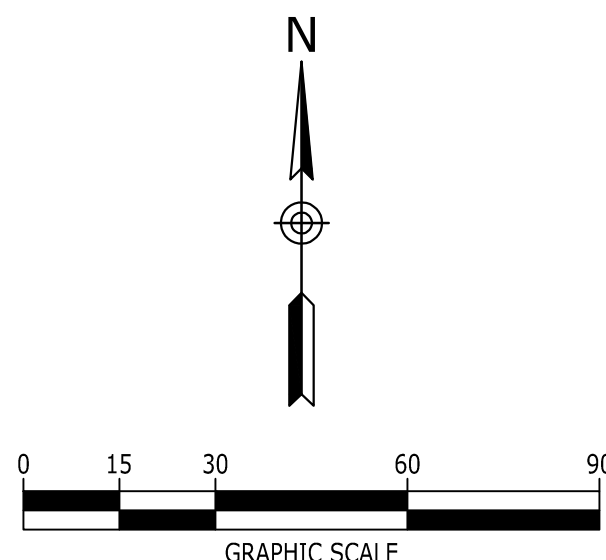
ADA ROUTE PLAN
INSET SCALE: 1" = 10'

GRADING & DRAINAGE KEYNOTES

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

LEGEND

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



LEE'S SUMMIT
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816-282-5000

CONSTRUCTION DOCUMENTS
HCA LEE'S SUMMIT
MEDICAL CENTER
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LEE'S SUMMIT, MO. 64063
JACKSON COUNTY

DRAWING TITLE
DETAILED GRADING
& DRAINAGE PLAN

PROJECT NUMBER
20240037
DRAWING NUMBER
C6.1

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MISSOURI DHSS

FACILITY NUMBER
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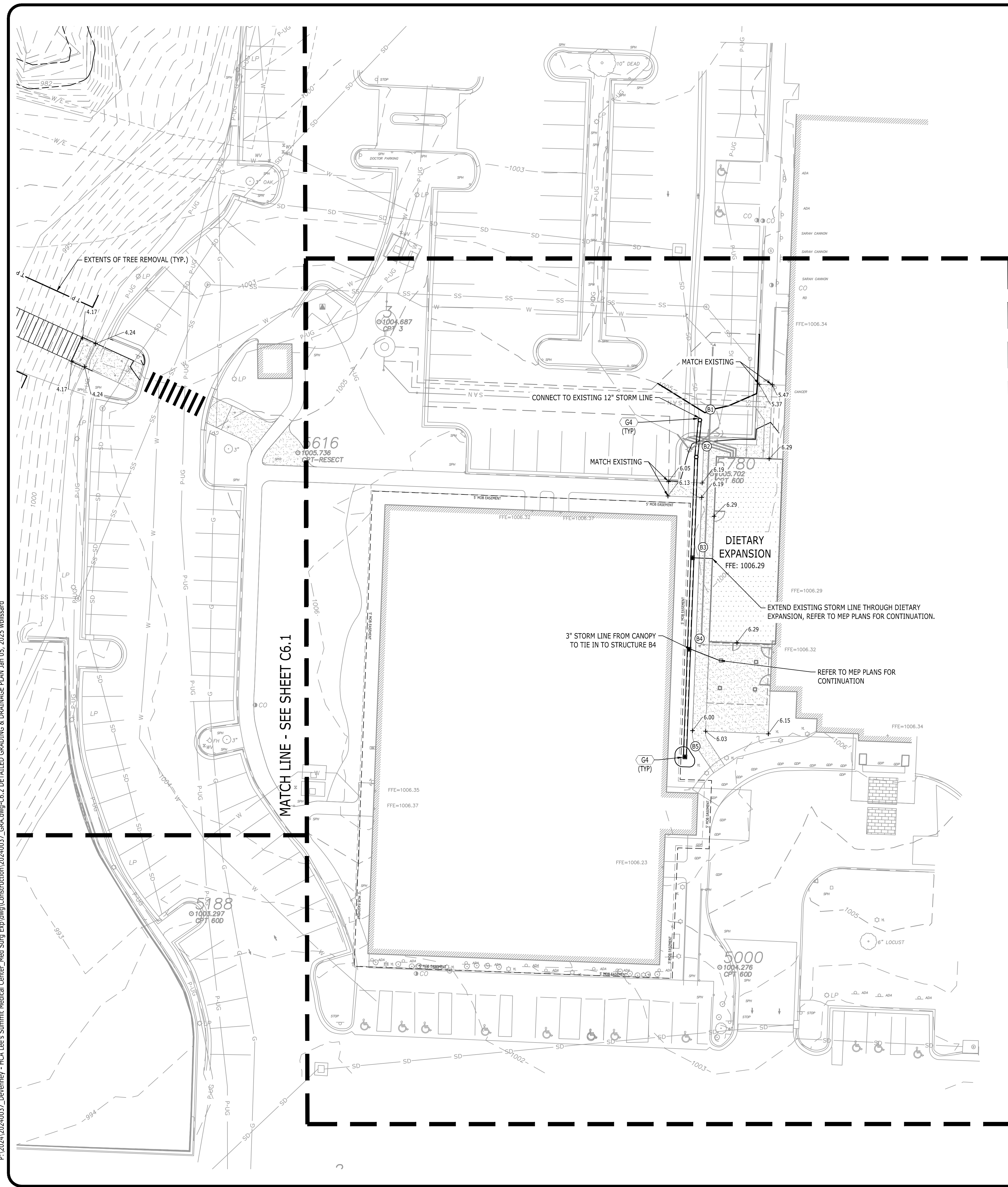
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


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Autodesk® AutoCAD®
**DETAILED GRADING
 & DRAINAGE PLAN**

C6.2

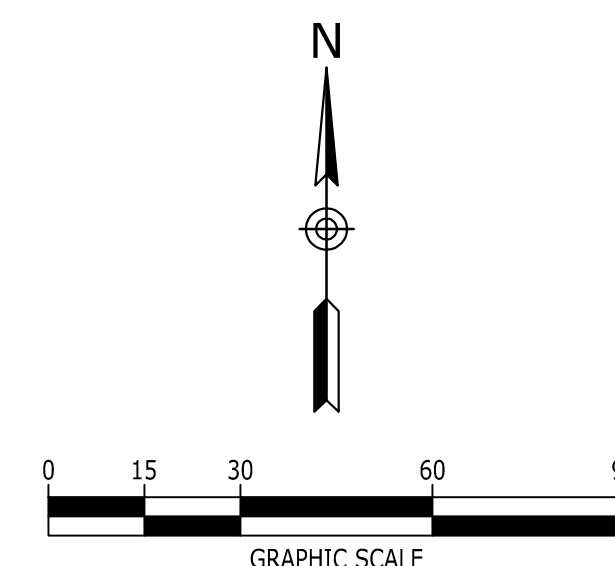


GRADING & DRAINAGE KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
G1	NDS DRAIN INLET	9 / C8.0
G6	DETENTION POND OUTLET STRUCTURE	C6.3
G8B	CONCRETE HEADWALL - WINGED	11 / C8.0
G14	DOUBLE CURB INLET	8 / C8.1
G15	CONCRETE FLUME	2 / C8.1

LEGEND	
STORM PIPE & INLET	
SPOT ELEVATION	+0.00
PROPOSED CONTOUR ELEV.	 90
DRAINAGE STRUCTURE	 C
SILT FENCE	SF
TREE PROTECTION	T P
INLET PROTECTION	 M
STRAW BALE FILTER	 S



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DRAWING TITLE

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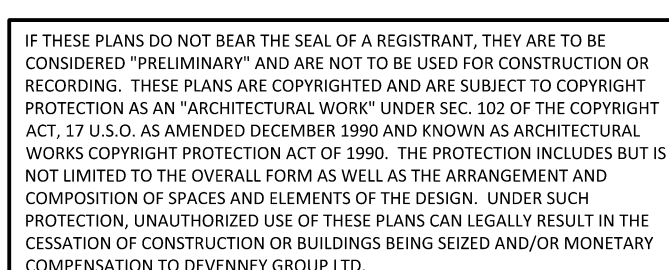
PROJECT NUMBER
20240037

DRAWING NUMBER

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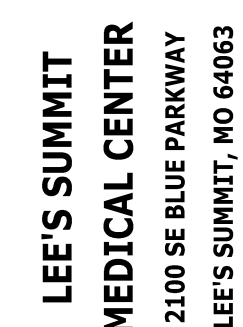
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AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	2024/12/05
SCALE:	1:10
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REVIEWED:	WB
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PEDESTRIAN BRIDGE
PLAN & PROFILE

C6.4



CONSTRUCTION DOCUMENTS
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[illegible]





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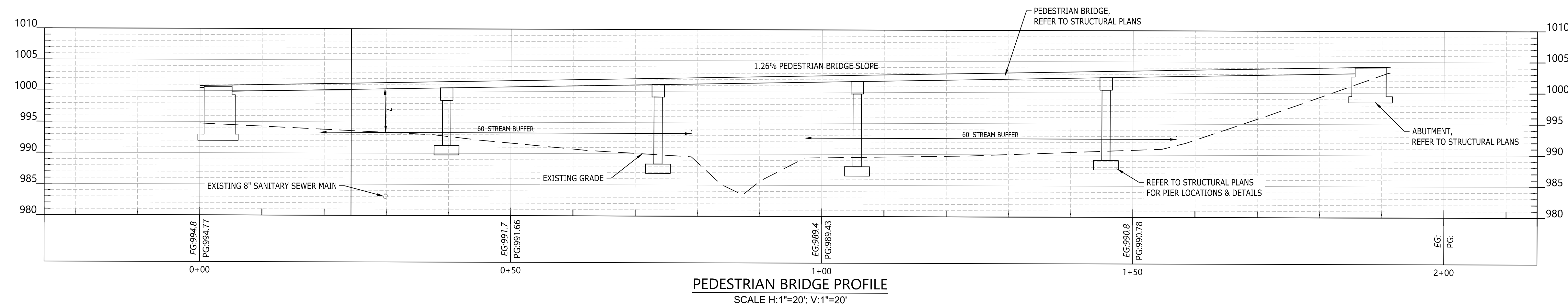
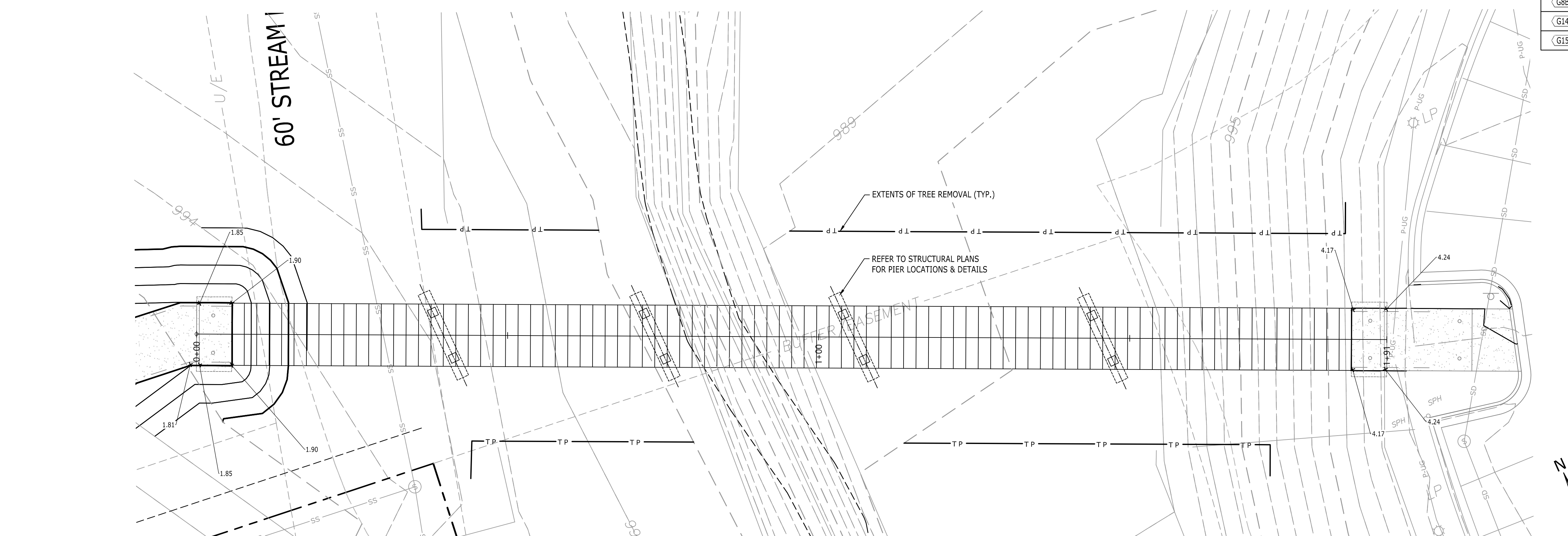
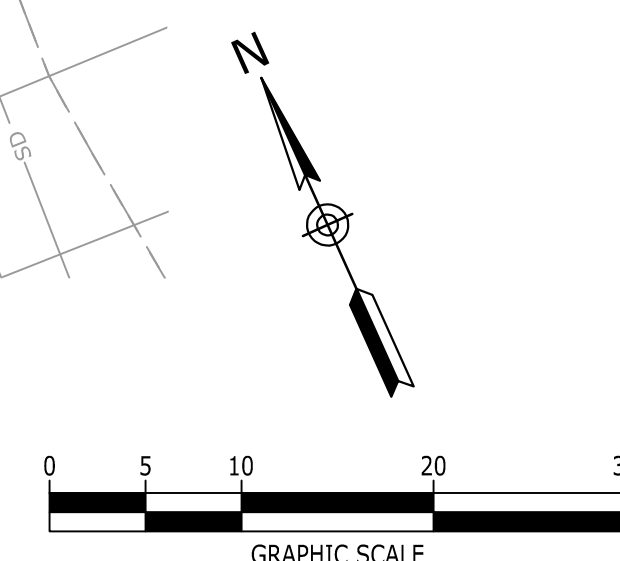
PEDESTRIAN BRIDGE
PLAN & PROFILE

PROJECT NUMBER	20240037
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C6.4

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

LEGEND	
STORM PIPE & INLET	
SPOT ELEVATION	0.00
PROPOSED CONTOUR ELEV.	90
DRAINAGE STRUCTURE	
SILT FENCE	SF
TREE PROTECTION	T P
INLET PROTECTION	
STRAW BALE FILTER	

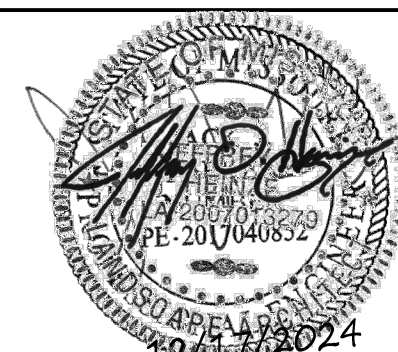


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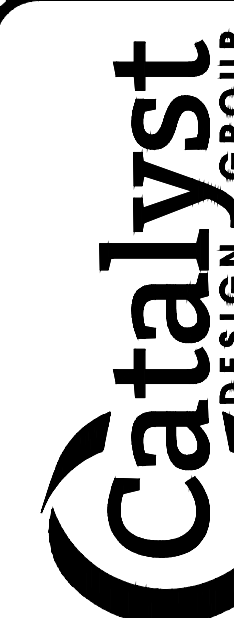
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AGENCY

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OVERALL UTILITY
PLAN

C7.0



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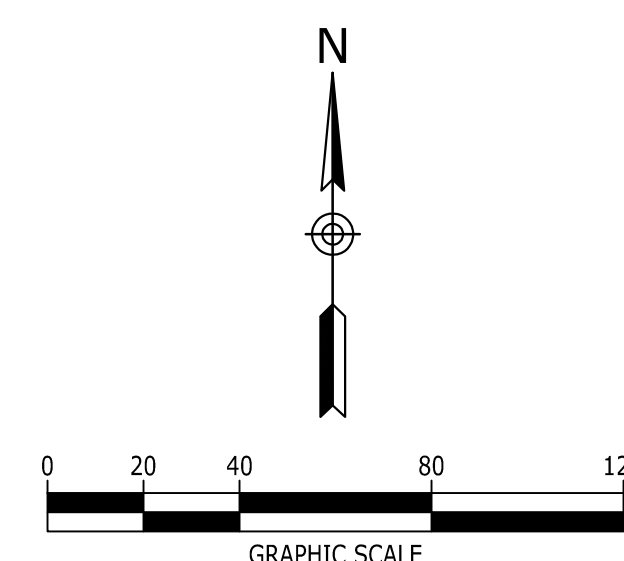
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DRAWING TITLE
OVERALL UTIL
PLAN








PROJECT NUMBER	20240037
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DRAWING NUMBER

C7.0

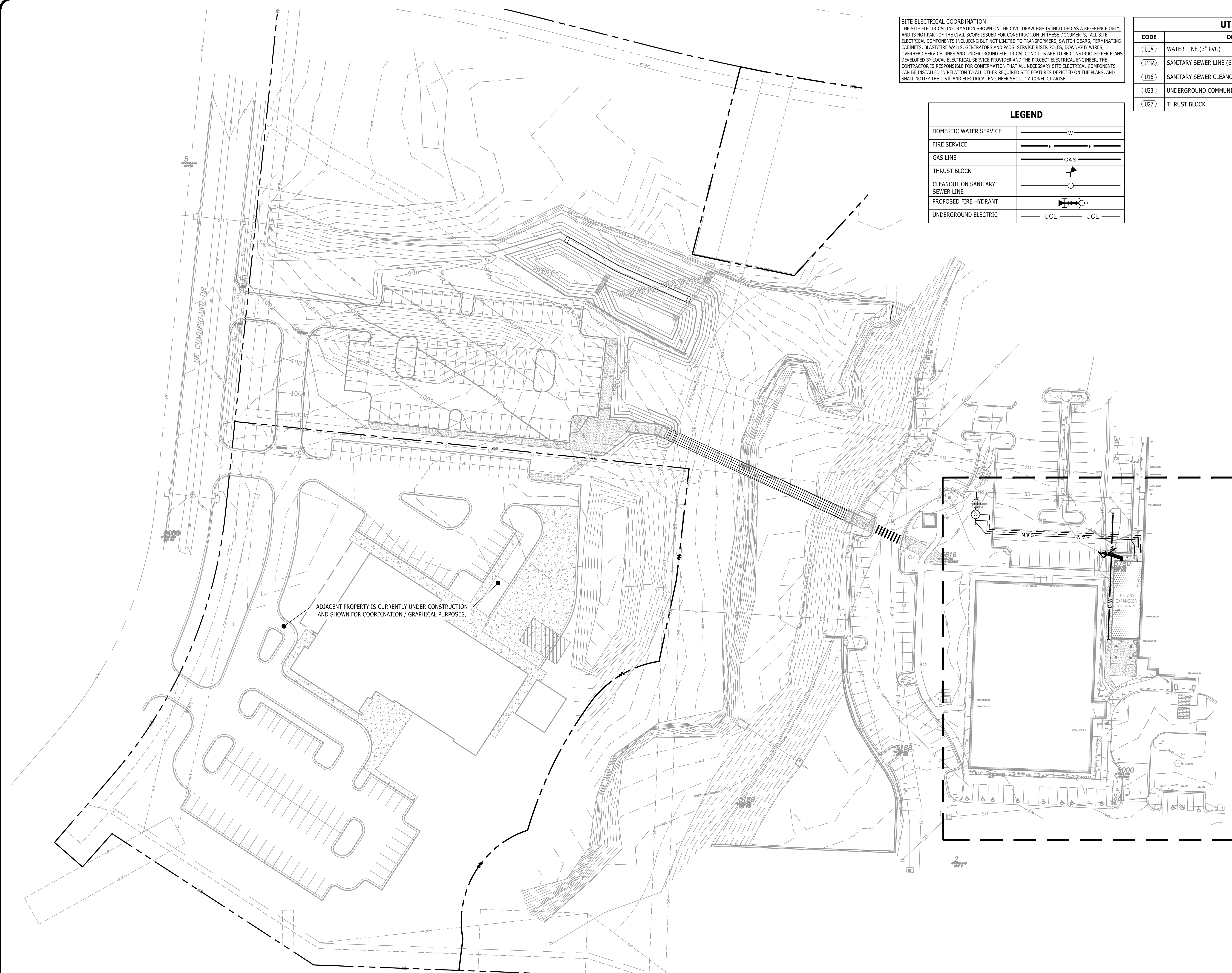


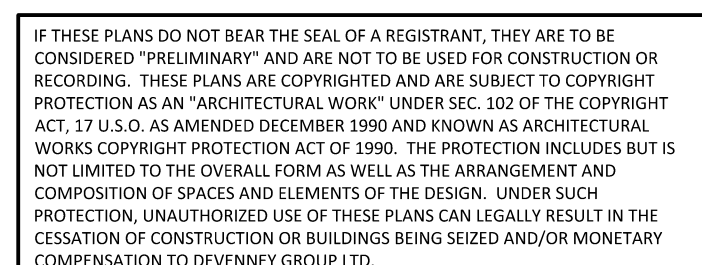
UTILITY KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
(U1A)	WATER LINE (3" PVC)	
(U13A)	SANITARY SEWER LINE (6" PVC)	
(U16)	SANITARY SEWER CLEANOUT	7 / C8.1
(U23)	UNDERGROUND COMMUNICATION LINE	
(U27)	THRUST BLOCK	6 / C8.1

LEGEND	
DOMESTIC WATER SERVICE	 W
FIRE SERVICE	 F F
GAS LINE	 GAS
THRUST BLOCK	
CLEANOUT ON SANITARY SEWER LINE	
PROPOSED FIRE HYDRANT	
UNDERGROUND ELECTRIC	 UGE UGE

SITE ELECTRICAL COORDINATION

THE SITE ELECTRICAL INFORMATION SHOWN ON THE CIVIL DRAWINGS IS INCLUDED AS A REFERENCE ONLY AND IS NOT PART OF THE CIVIL SCOPE ISSUED FOR CONSTRUCTION IN THESE DOCUMENTS. ALL SITE ELECTRICAL COMPONENTS INCLUDING BUT NOT LIMITED TO TRANSFORMERS, SWITCH GEARS, TERMINATING CABINETS, BLAST/FIRE WALLS, GENERATORS AND PADS, SERVICE RISER POLES, DOWN-GUY WIRES, OVERHEAD SERVICE LINES AND UPGRADE AND 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.

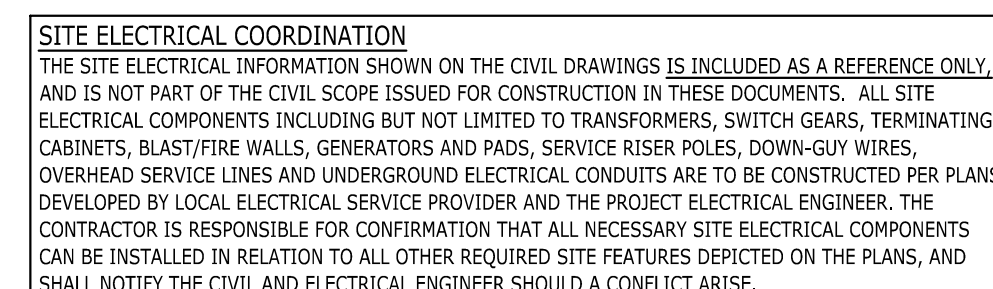











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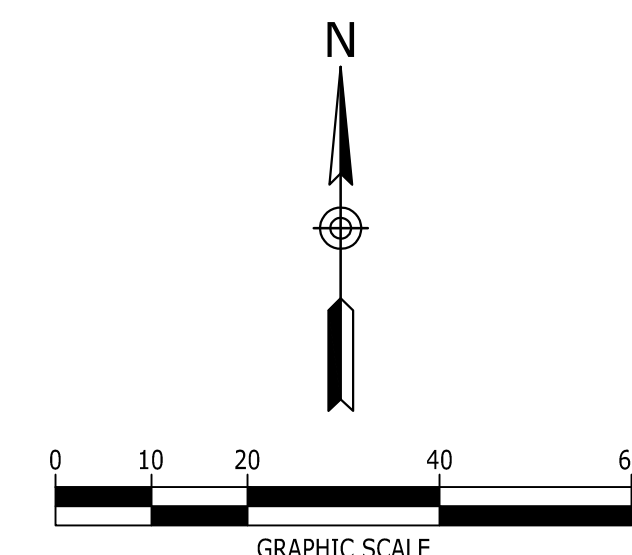
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LEGEND	
DOMESTIC WATER SERVICE	 W
FIRE SERVICE	 F F
GAS LINE	 GAS
THRUST BLOCK	
CLEANOUT ON SANITARY SEWER LINE	
PROPOSED FIRE HYDRANT	
UNDERGROUND ELECTRIC	 UGE UGE

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



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DRAWING TITLE

DETAILED UTILITY
PLAN

PROJECT NUMBER	20240037
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DRAWING NUMBER

C7.1



11

12

NOT TO SCALE

SWALK

4

STOP SIGN

NOT TO SCALE

NOTE: SIDEWALKS TO HAVE A MAXIMUM LONGITUDINAL SLOPE OF 7.5%.

5

9

NOT TO SCALE

EXPANSION JOINT

6

1

2

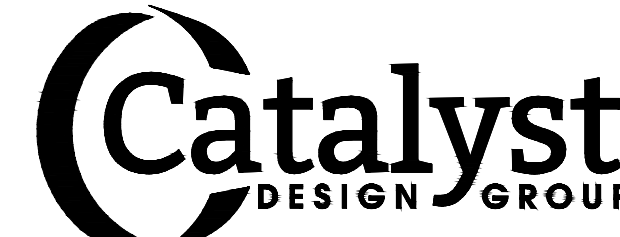
CONCRETE CURB AND GUTTER

CONCRETE SIDEWALK AT CURB AND GUTTER

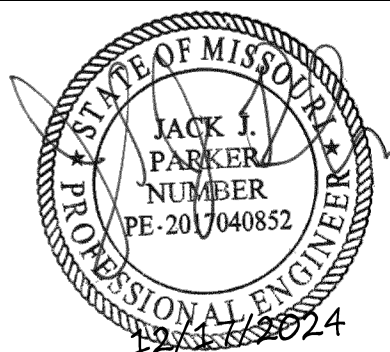
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C8.0

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MISSOURI DHS

FACILITY NUMBER:
097240009

AGENCY APPROVALS:
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SITE DETAILS

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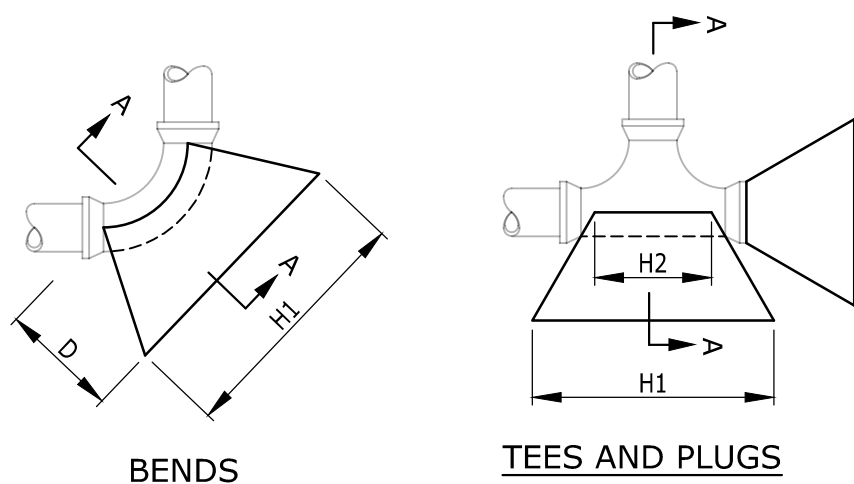
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SITE DETAILS

PROJECT NUMBER
20240037
DRAWING NUMBER
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"	

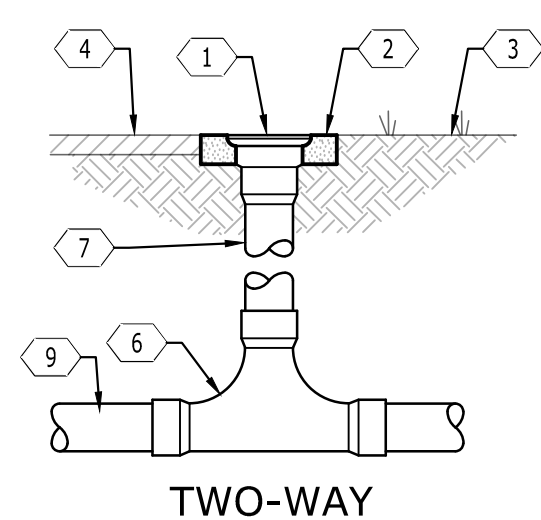
22 1/2° BEND					
PIPE SIZE	H1	H2	D	V	
4"	12"	8"	12"	12"	
6"	18"	10"	18"	18"	
8"	27"	11"	18"	20"	

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"	

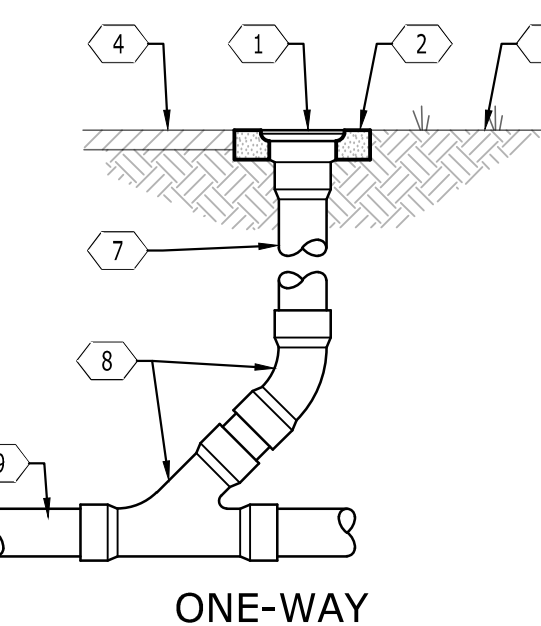
TEES AND PLUGS					
PIPE SIZE	H1	H2	D	V	
4"	24"	12"	12"	16"	
6"	30"	16"	18"	24"	
8"	40"	18"	18"	30"	

THRUST BLOCKING

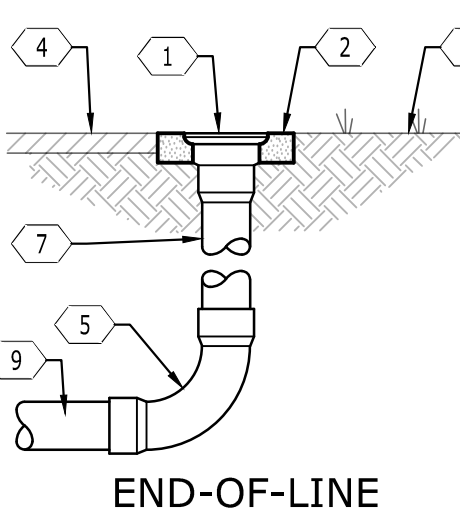
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TWO-WAY



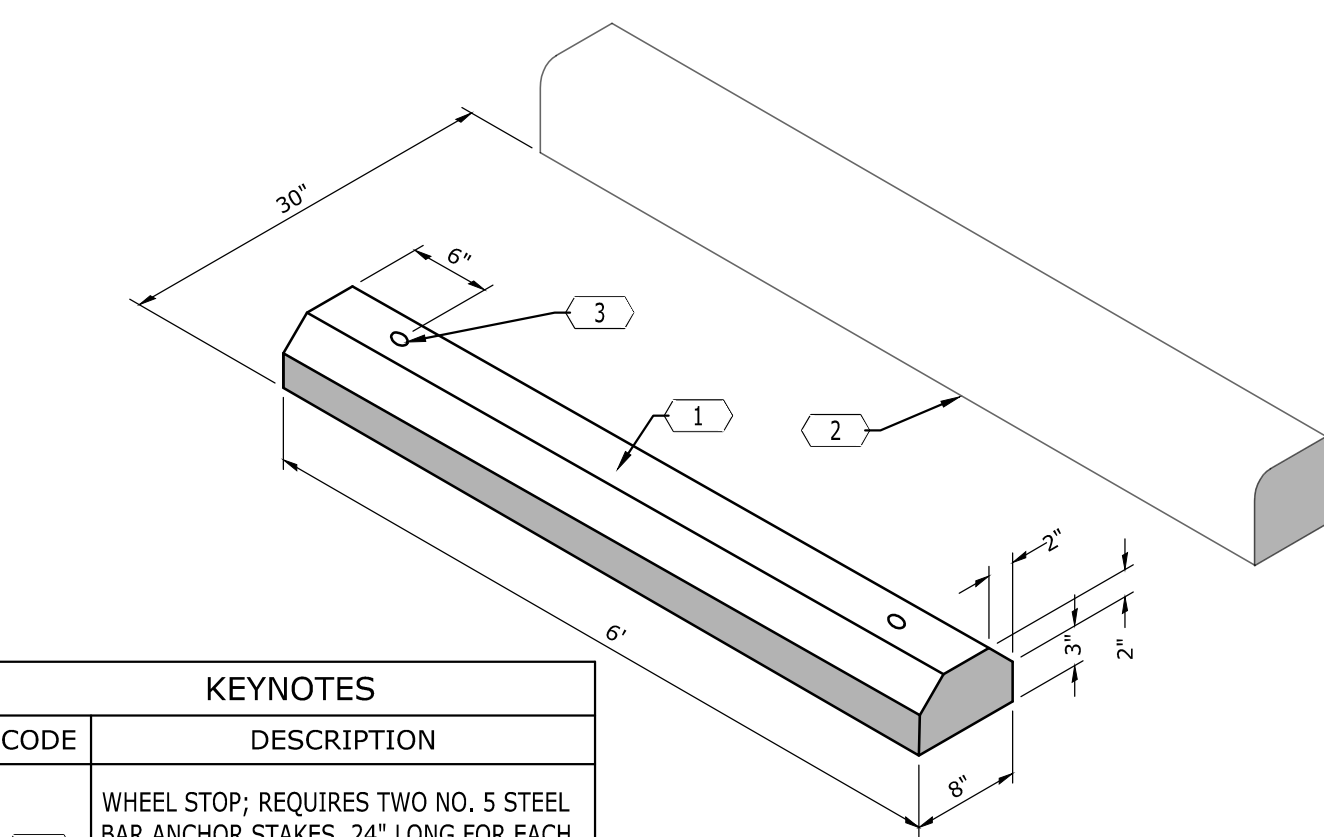
ONE-WAY



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

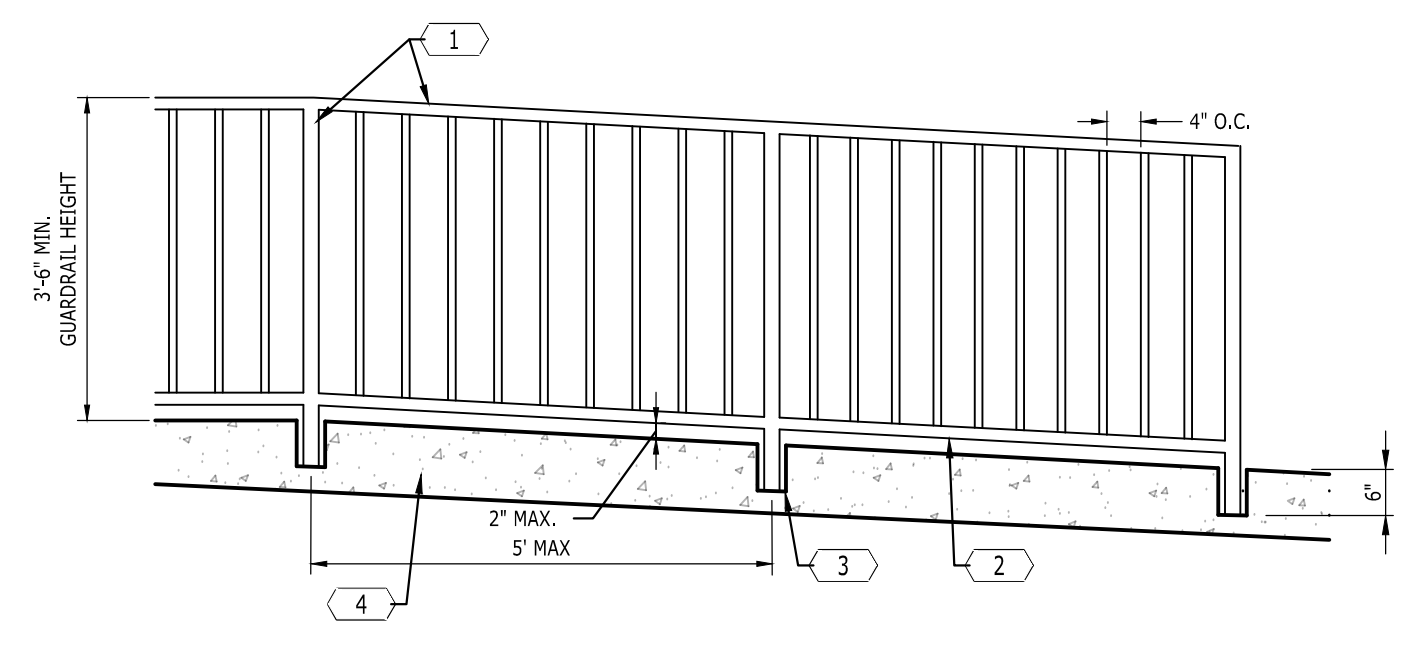
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RESERVED

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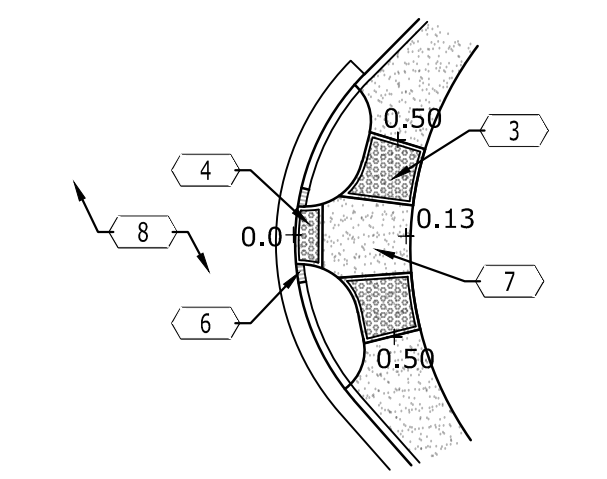
KEYNOTES	
CODE	DESCRIPTION
1	1-1/2" O.D. TUBULAR POST AND RAIL
2	1-1/2" O.D. TUBULAR BOTTOM RAIL
3	MIN. 2-1/2" I.D. TUBE STEEL SLEEVE CAST IN PLACE. GROUT GUARDRAIL POST IN PLACE (TYP.).
4	CONCRETE SURFACE

- 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".

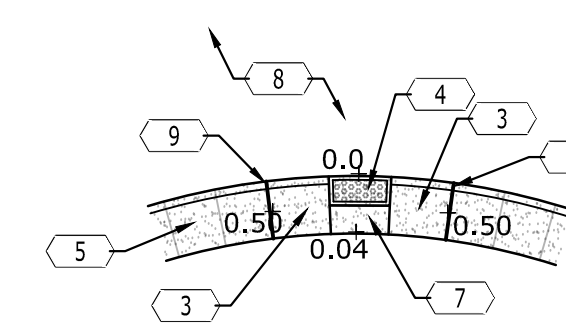


GUARDRAIL

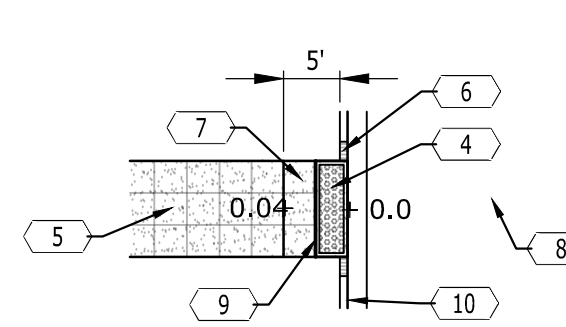
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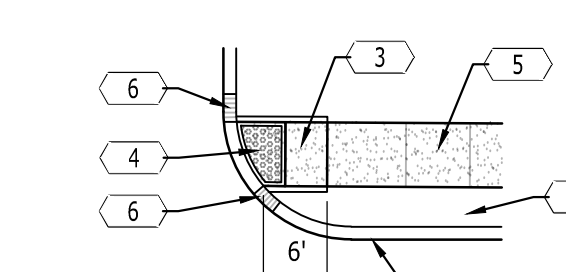
ACCESSIBLE CURB RAMP "A"



ACCESSIBLE CURB RAMP "B"



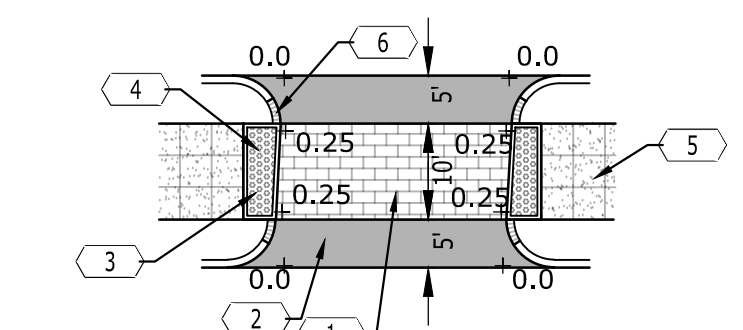
ACCESSIBLE CURB RAMP "C"



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

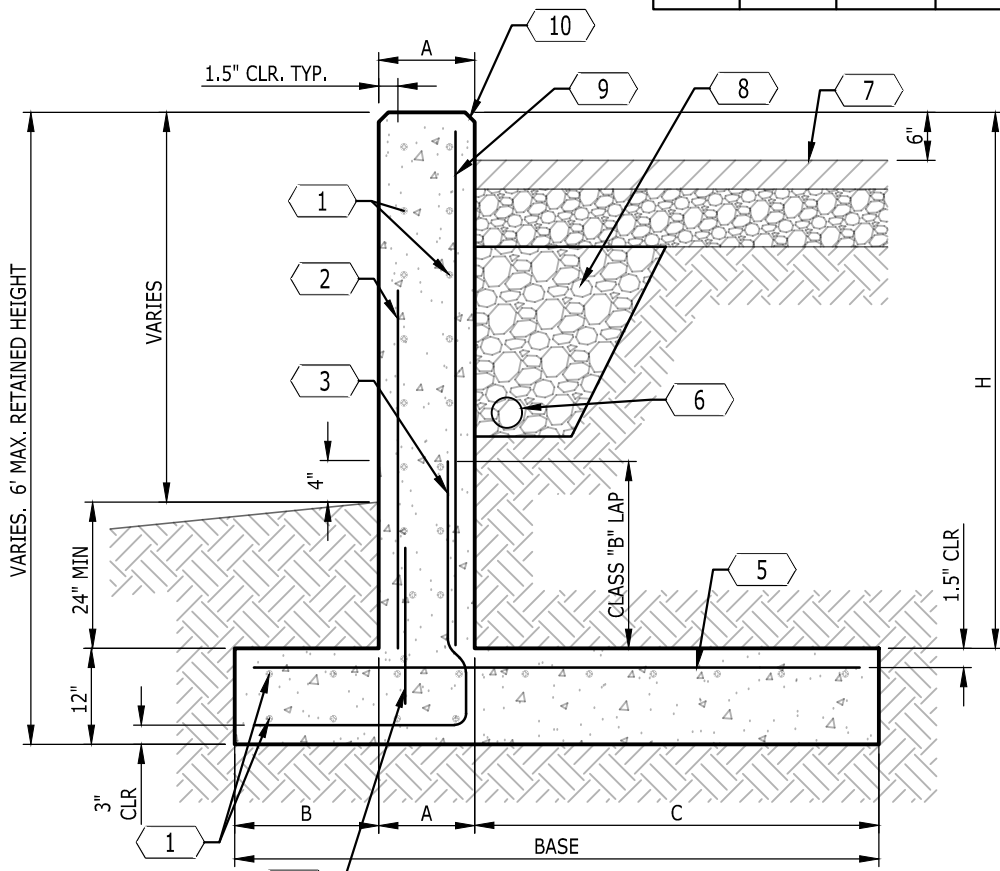
NOT TO SCALE

1

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.

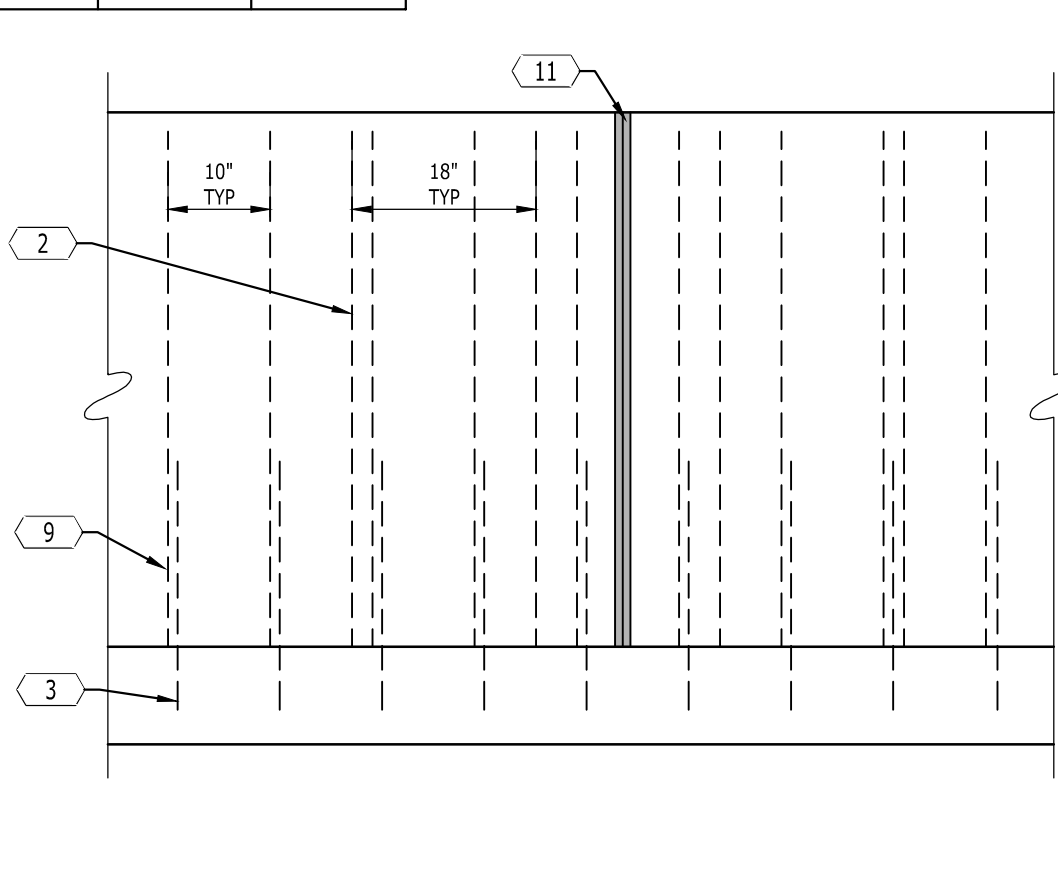
RETAINING WALL SCHEDULE									
				BAR SIZE AND SPACING					
"H"	BASE	"B"	"A"	"C"	"V1"	"V2"	"D"	"L"	"I"
0'-6"	4'-9"	1'-3"	10"	2'-8"	No. 4 AT 10"	No. 4 AT 18"	No. 4 AT 10"	No. 4 AT 10"	No. 4 AT 10"



SECTION

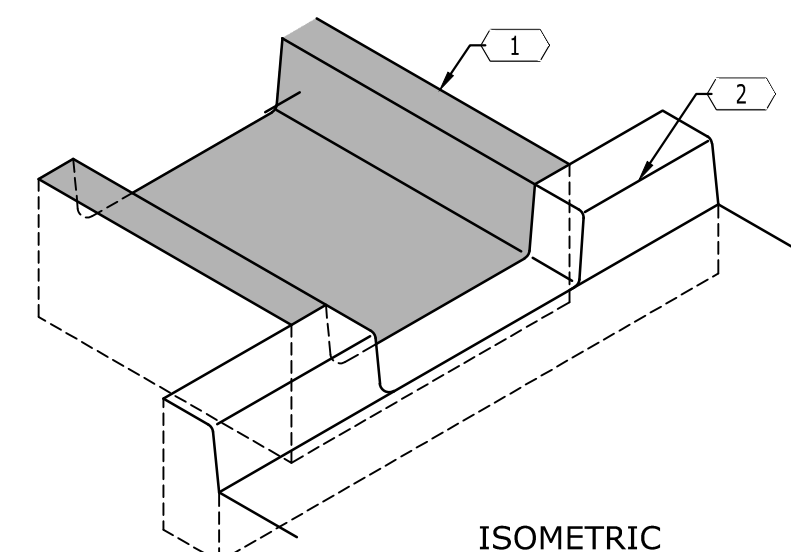
CONCRETE RETAINING WALL

NOT TO SCALE

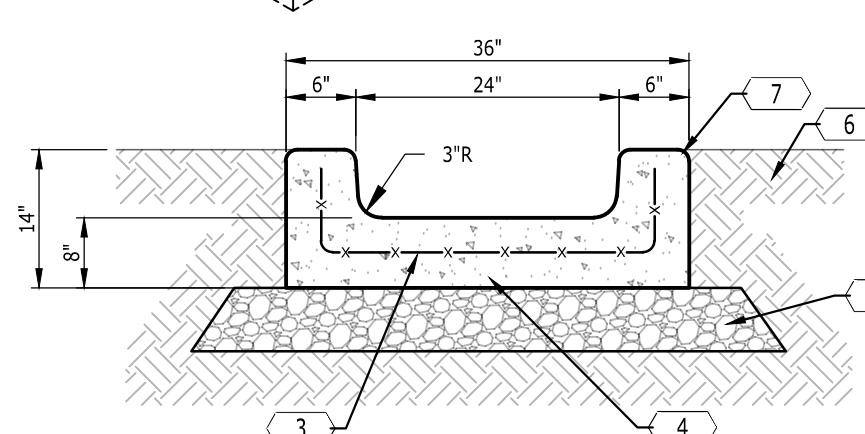


ELEVATION

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



ISOMETRIC

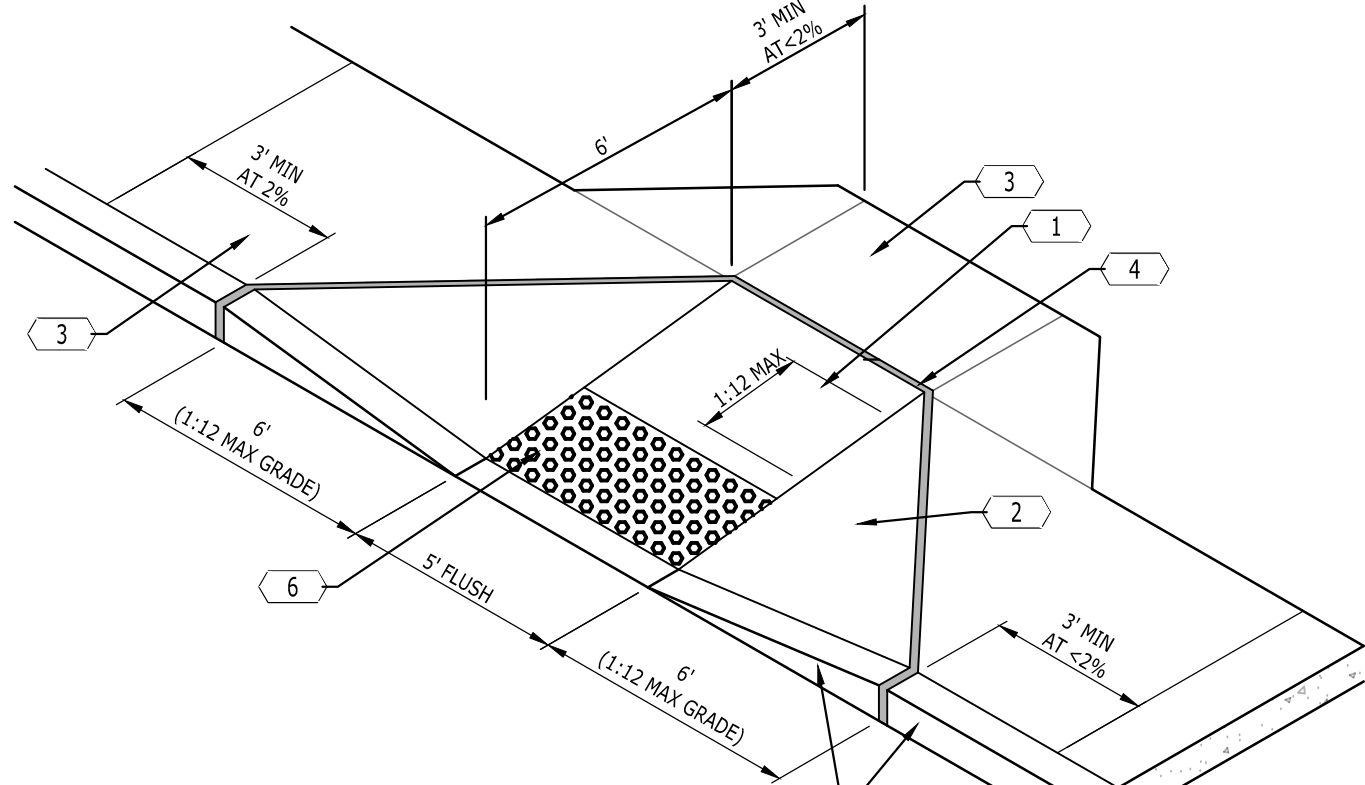


SECTION

CONCRETE FLUME

NOT TO SCALE

2

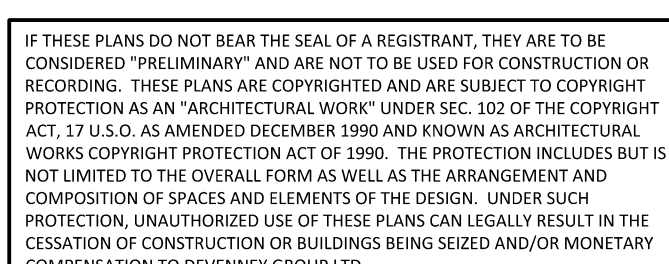


ACCESSIBLE RAMP - FLARED

NOT TO SCALE

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

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

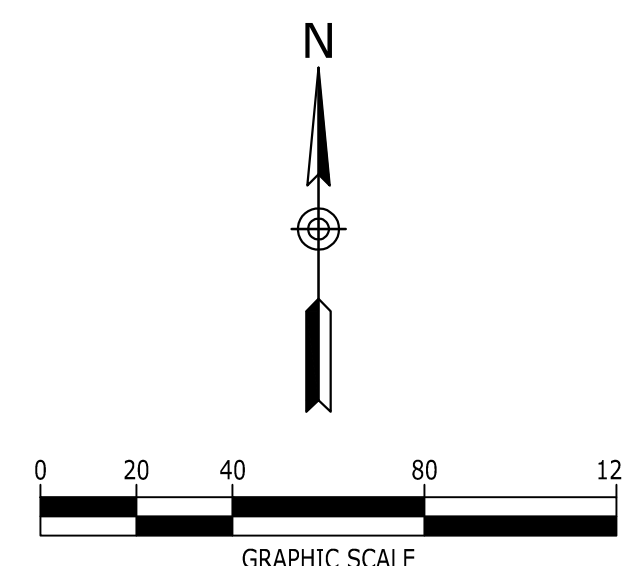
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DRAWN:	A
REVIEWED:	W
JOB NUMBER:	6406.2

OVERALL LANDSCAPE
PLAN

2:12024120240037 Devenney - HCA Lee's Summit Medical Center Med Surg Exp\dwg\Construction\20240037 LAN.dwg-L1.0 OVERALL LANDSCAPE PLAN Jan 05, 2025 wblissard



Know what's below.
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LEGEND

LANDSCAPING REQUIREMENTS

SEC. 8.790.A - STREET FRONTAGE

SEC. 8.790.A - STREET FRONTAGE
1 TREE / 30 L.F. STREET FRONTAGE
130 L.F. STREET FRONTAGE / 30 = 05 TREES REQ
05 TREES PROVIDED

SEC. 8790.B - OPEN YARDS
2 SHRUBS / 5,000 S.F. OF TOTAL LOT AREA
98,405 S.F. PROJECT LOT AREA / 5,000 x 2 = 40 SHRUBS REQ
43 SHRUBS PROVIDED

8.810 PARKING LOT TREES

5% OF PARKING AREA LANDSCAPE AREA
26,617 S.F. PARKING LOT x .05 = 1,330 S.F. LANDSCAPE ISLANDS REQ
1,545 S.F. LANDSCAPE ISLANDS PROVIDED

8.820 PARKING LOT SCREENING

12 SHRUBS / 40 L.F. REQUIRED FROM R.O.W.
107 L.F. / 40 x 12 = 33 SHRUBS REQ.
40 SHRUBS PROVIDED

PLANT SCHEDULE

<u>SYMBOL</u>	<u>CODE</u>	<u>QTY</u>	<u>BOTANICAL / COMMON NAME</u>	<u>CONT</u>	<u>CAL</u>	<u>SIZE</u>
TREES						
	QAB	5	Quercus alba / White Oak	B&B	2.5"	12-14"
	QP	8	Quercus phellos / Willow Oak	B&B	2.5"	12-14"
SHRUBS						
	DG	23	Deutzia gracilis / Slender Deutzia	#3		18-24"
	ICBN	40	Ilex cornuta 'Burfordii Nana' / Dwarf Burford Holly	#3		18-21"
	PLO	23	Prunus laurocerasus 'Otto Luyken' / Otto Luyken English Laurel	#7		18-21"
SYMBOL CODE QTY BOTANICAL / COMMON NAME CONT CAL SIZE SPACING						
SHRUB AREAS						
	JHW	114	Juniperus horizontalis 'Wiltonii' / Blue Rug Juniper	#1		48" o.c.
GROUND COVERS						
	FR	10,914 sf	Festuca rubra / Red Fescue	Sod		
	HX	34	Helleborus x / Hybrid Hellebore / Lenten Rose	#1		18" o.c.
	VMB	128	Vinca minor 'Bowles' / Bowles Periwinkle	#1		18" o.c.

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

DRAWING TITLE

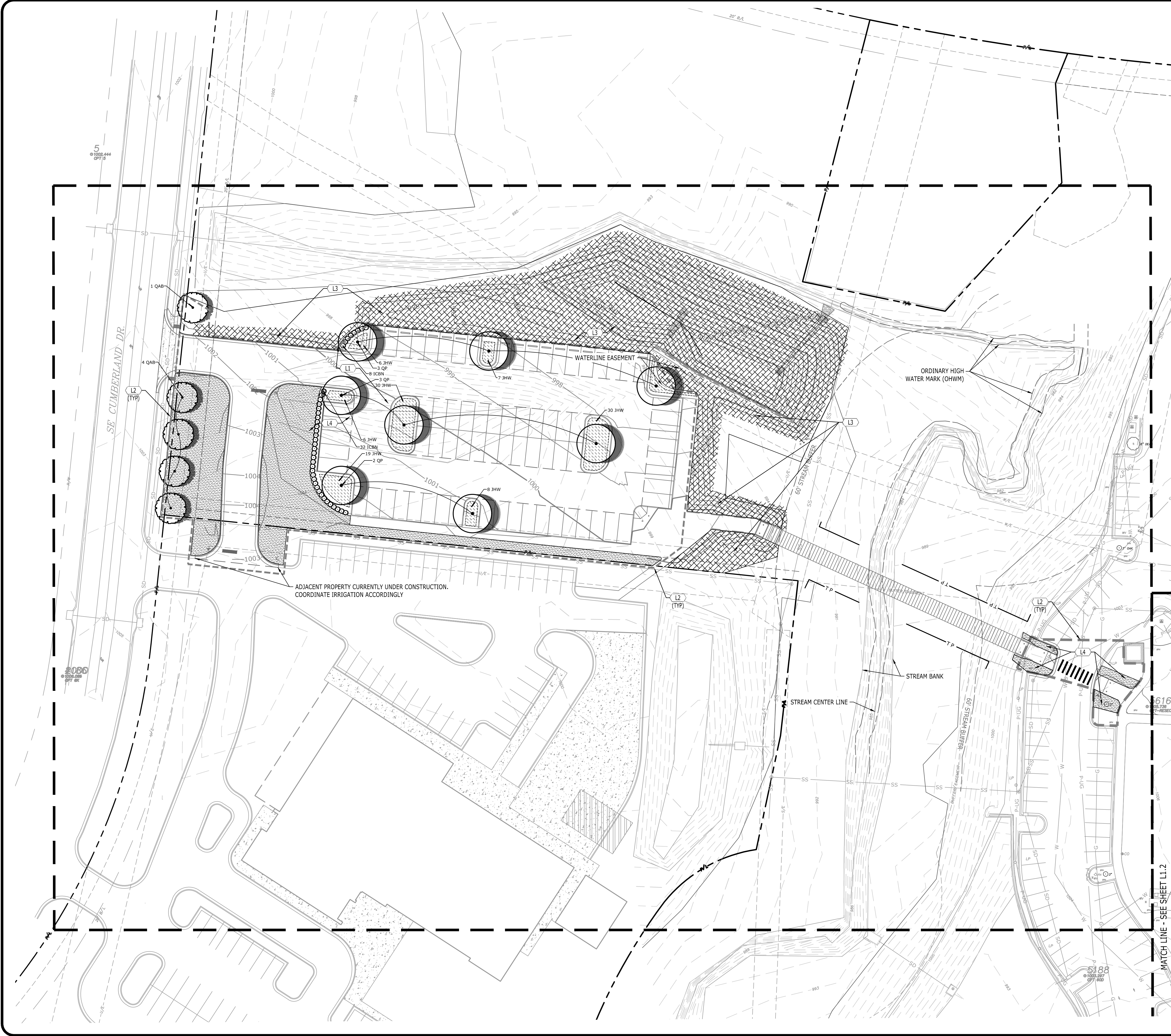
OVERALL LANDSCAPE
PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER

L1.0

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\20240037_LAN.dwg-L1.1 DETAILED LANDSCAPE PLAN Jan 05, 2025 wblissard



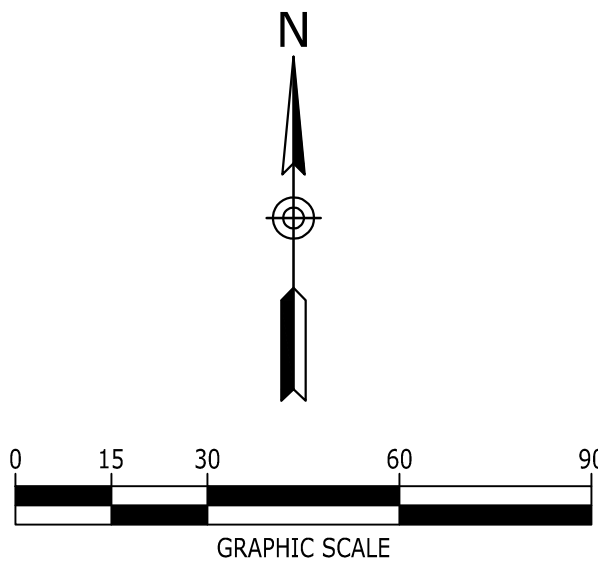
LANDSCAPE KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
L1	PLANTING BED LIMITS	1 / L2.0
L2	IRRIGATION LIMITS	NOTES / L2.0
L3	AREA TO BE SEEDED	
L4	AREA TO BE SODDED	
L5	AREA TO BE 4'-6" RIVER ROCK	

LEGEND	
LIMITS OF IRRIGATION	
STORM PIPE & INLET	
PROPOSED CONTOUR ELEV.	
AREA TO BE SEEDED	

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
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CONSTRUCTION DOCUMENTS
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JACKSON COUNTY

NO.		DATE	DESCRIPTION

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

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

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



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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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REVIEWED: WB

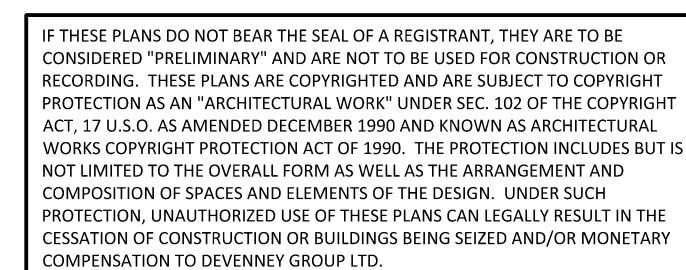
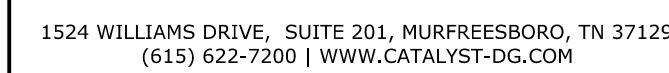
JOB NUMBER: 6406.24

DETAILED
LANDSCAPE PLAN

L1.1



Consultant



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MISSOURI DHSS

FACILITY NUMBER
0972400009

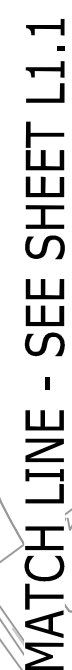
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AGENCY

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REVIEWED:	WB
JOB NUMBER:	6406.24

DETAILED
LANDSCAPE PLAN

L1.2



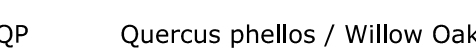
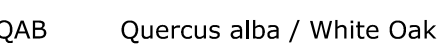
LANDSCAPE KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
L1	PLANTING BED LIMITS	1 / L2.0
L2	IRRIGATION LIMITS	NOTES / L2.0
L3	AREA TO BE SEEDED	
L4	AREA TO BE SODDED	
L5	AREA TO BE 4'-6" RIVER ROCK	

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

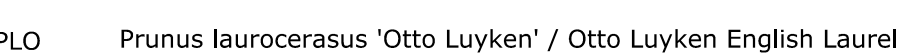
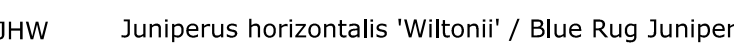
PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME
--------	------	-------------------------

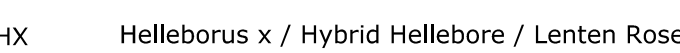
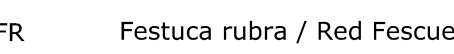
TREES



SHRUBS

SHRUB AREAS

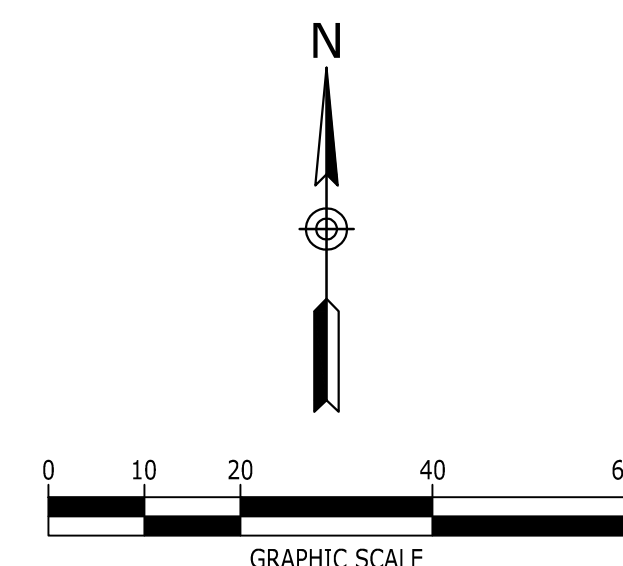
GROUND COVERS



SEE L1.0 FOR PLANT SIZES AND QUANTITIES



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LEE'S SUMMIT, MO, 64063
JACKSON COUNTY

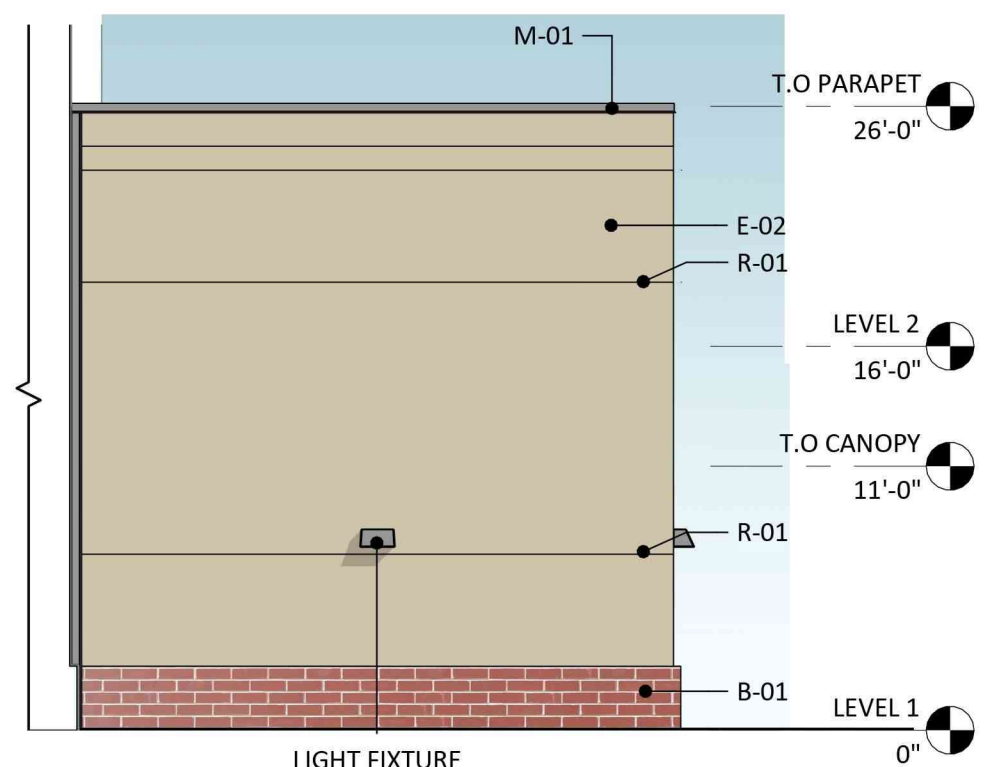
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DETAILED
LANDSCAPE PLAN

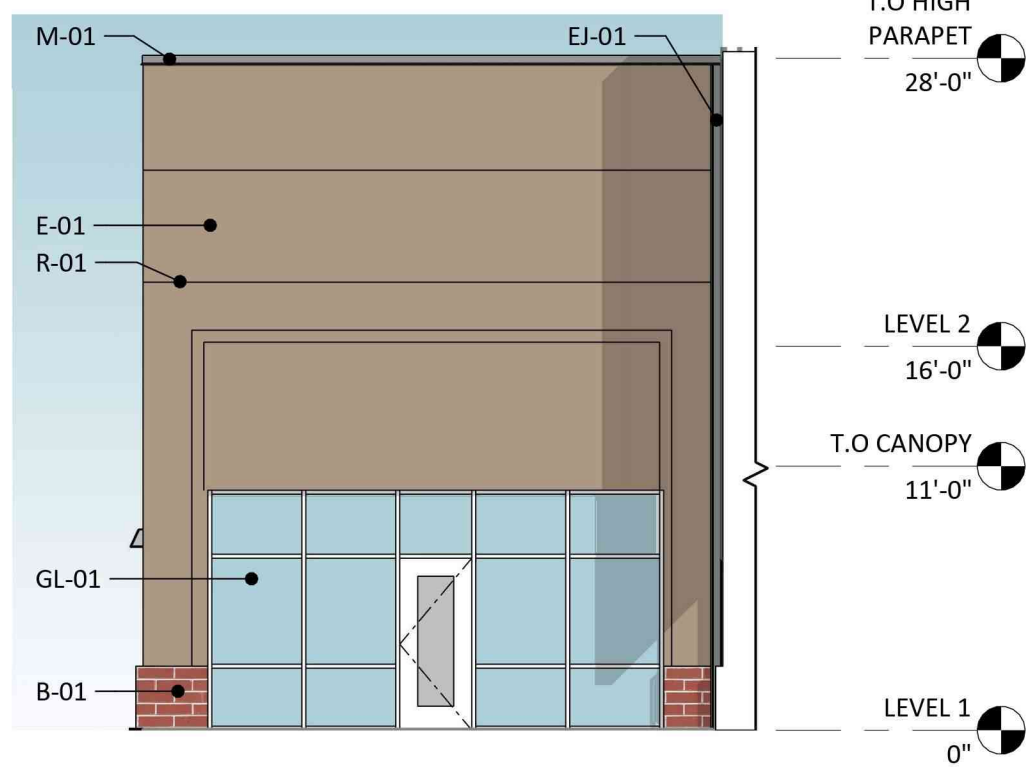
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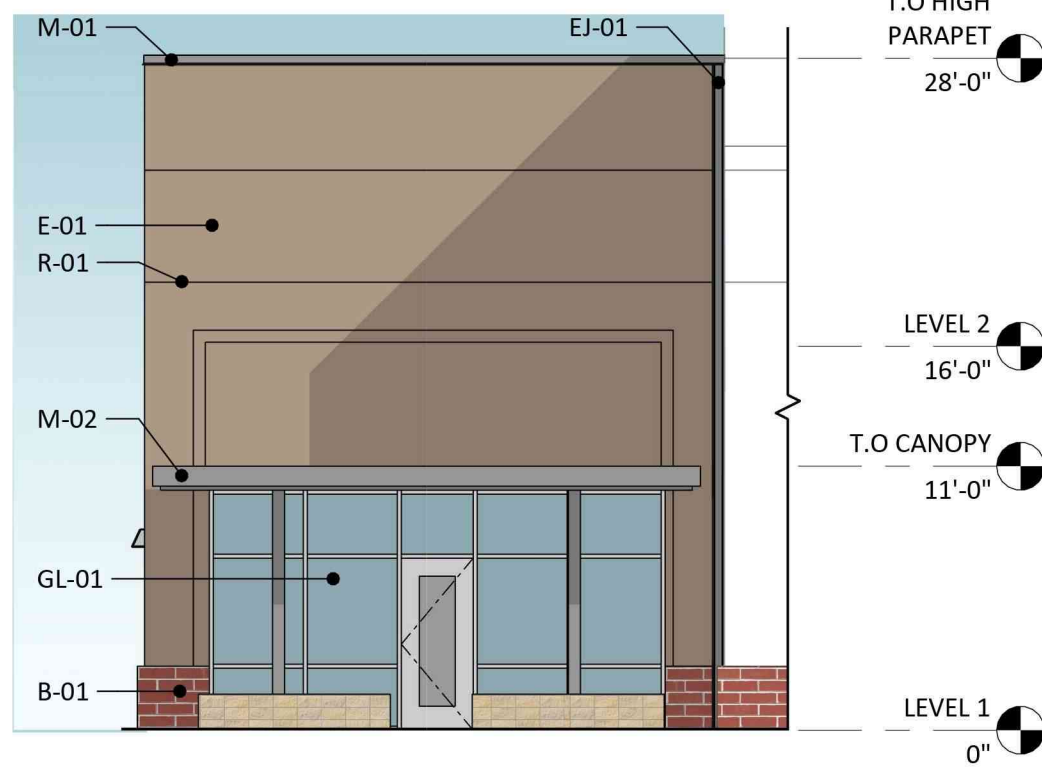
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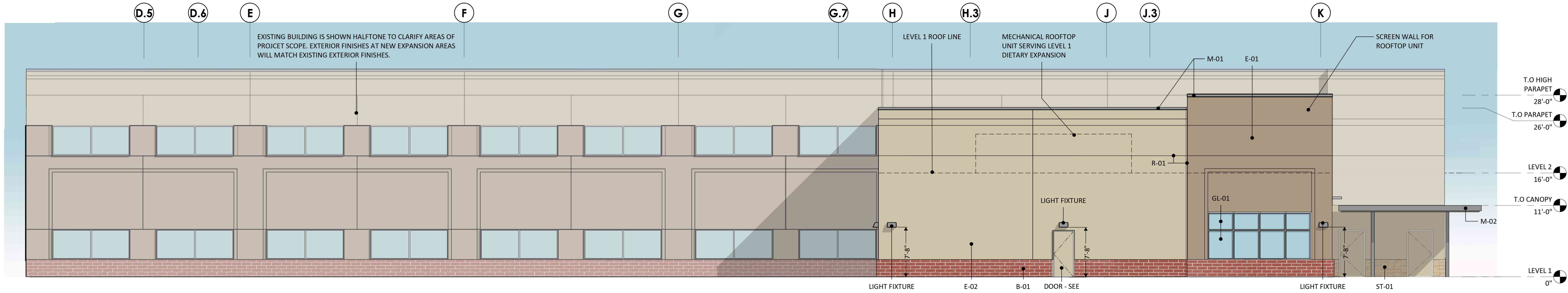
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1/8" = 1'-0"



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



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



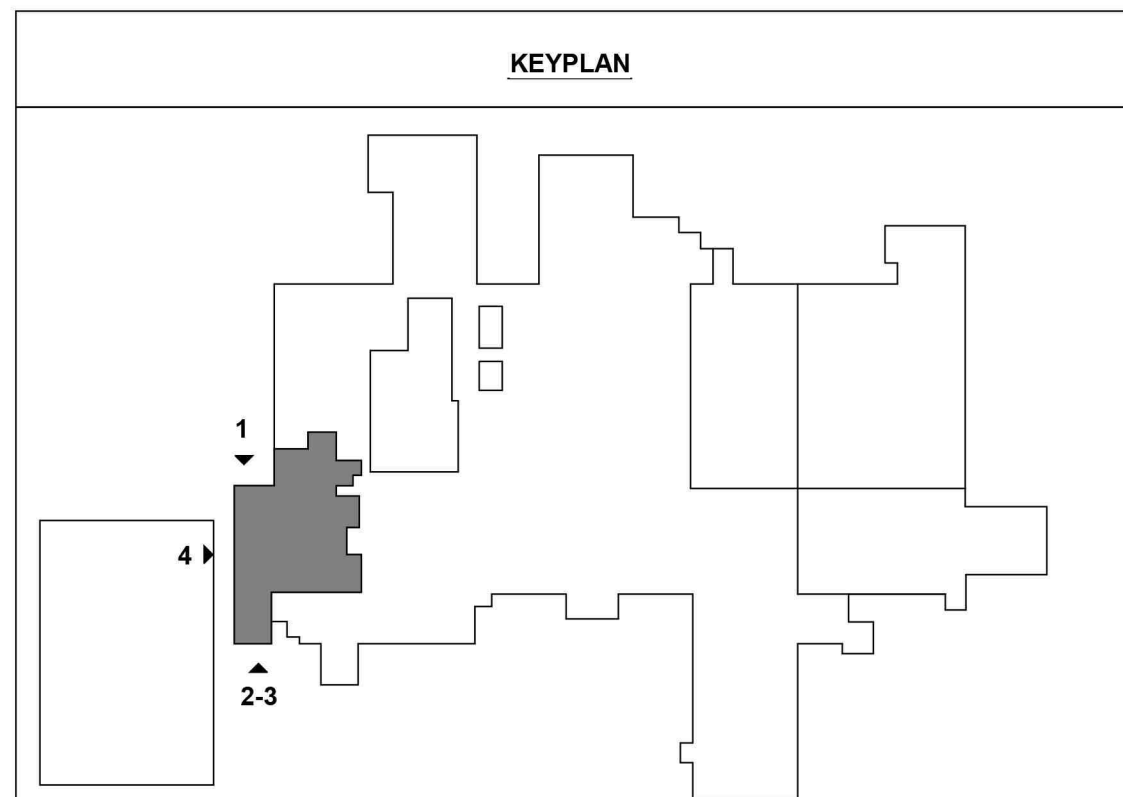
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1/8" = 1'-0"



6 DIETARY EXPANSION - WEST VIEW



5 OUTDOOR DINING VIEW



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
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MFR:	TBD
FINISH:	MATCH EXISTING

REVISIONS		
REV #	DESCRIPTION	DATE

Consultant:

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CONSTRUCTION

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

AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

FACILITY NUMBER:
0972400009

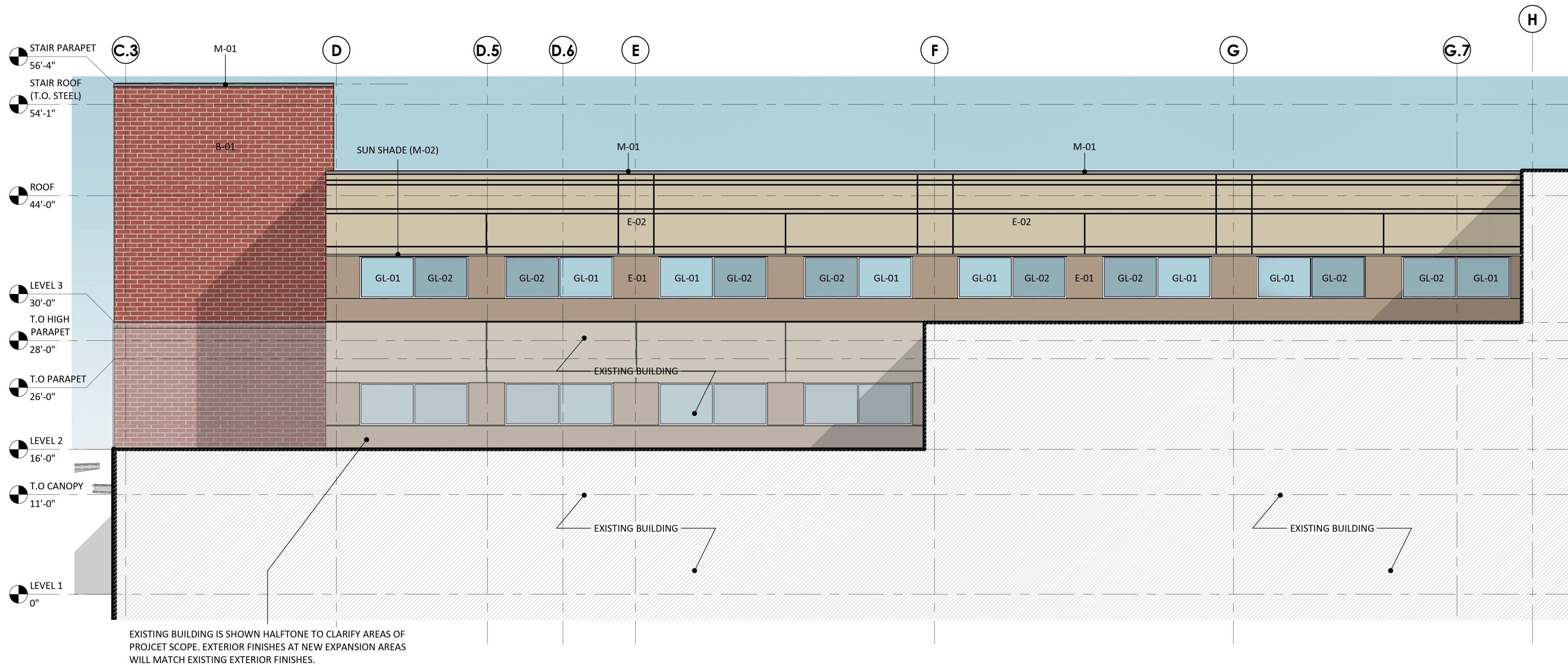
AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

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DRAWN:	
REVIEWED:	
JOB NUMBER:	6406.24

EXTERIOR BUILDING
ELEVATIONS

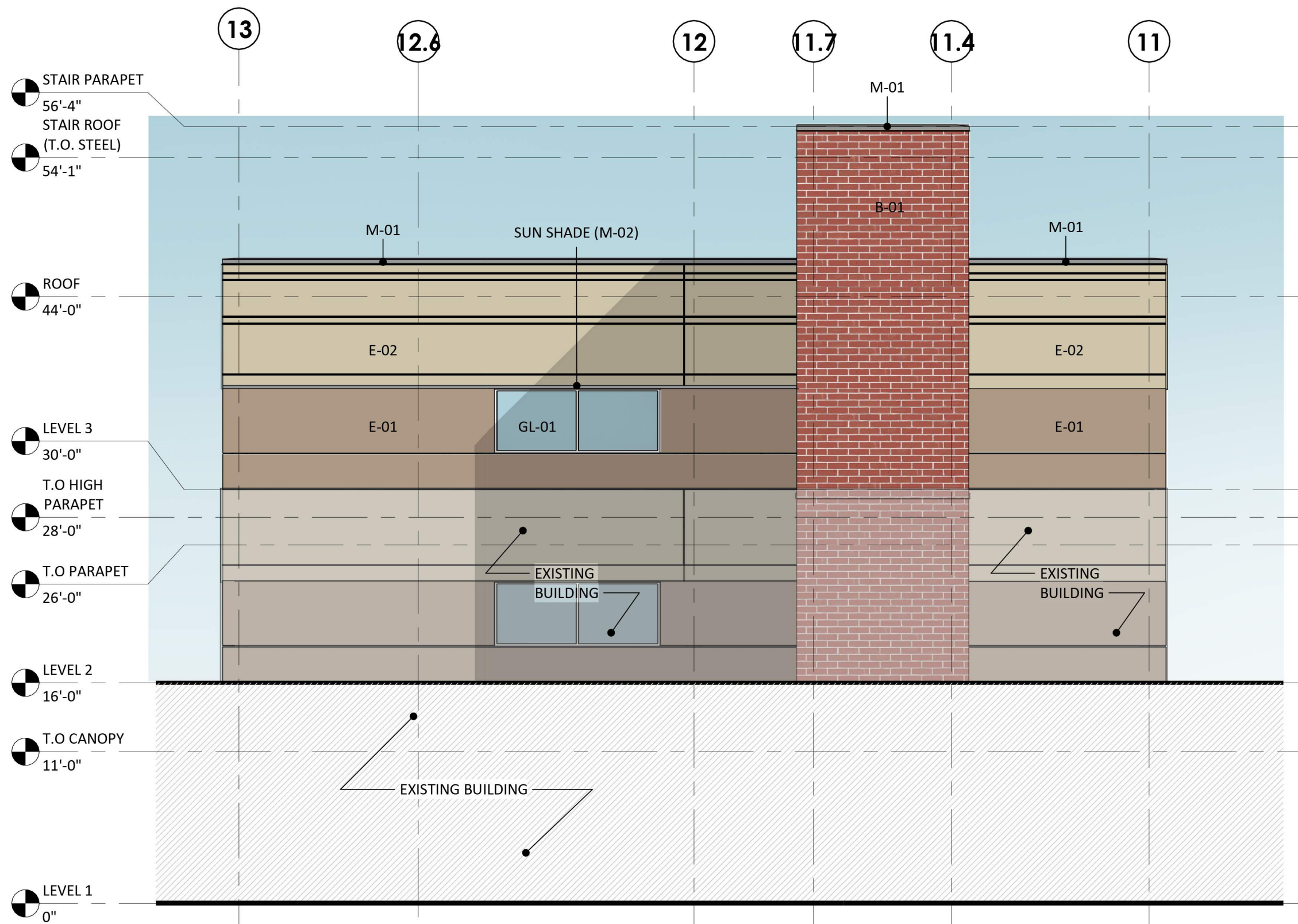
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MATERIAL LEGEND	
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GL-02	SPANDREL INSULATED GLAZING UNIT
PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING
E-01	EXTERIOR INSULATION FINISH SYSTEM COLOR 1
PRODUCT:	TBD
MFR:	TBD
FINISH:	MATCH EXISTING
E-02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

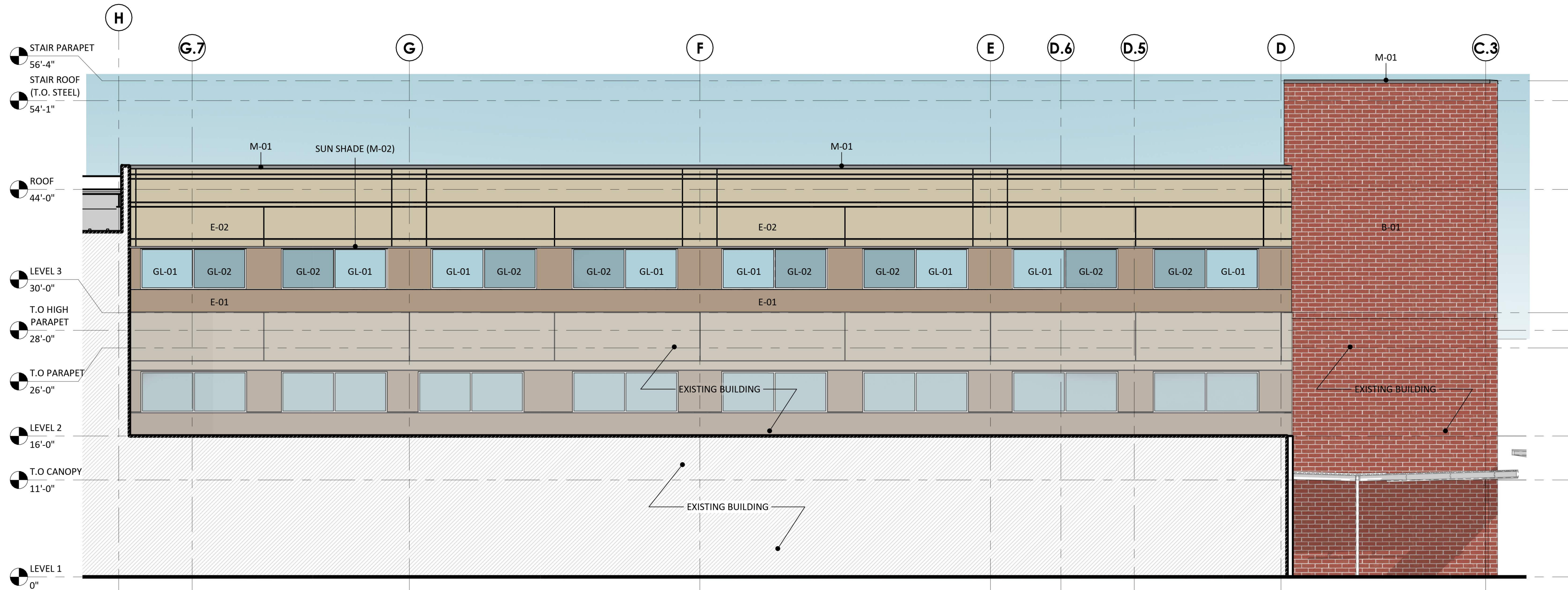
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1/8" = 1'-0"



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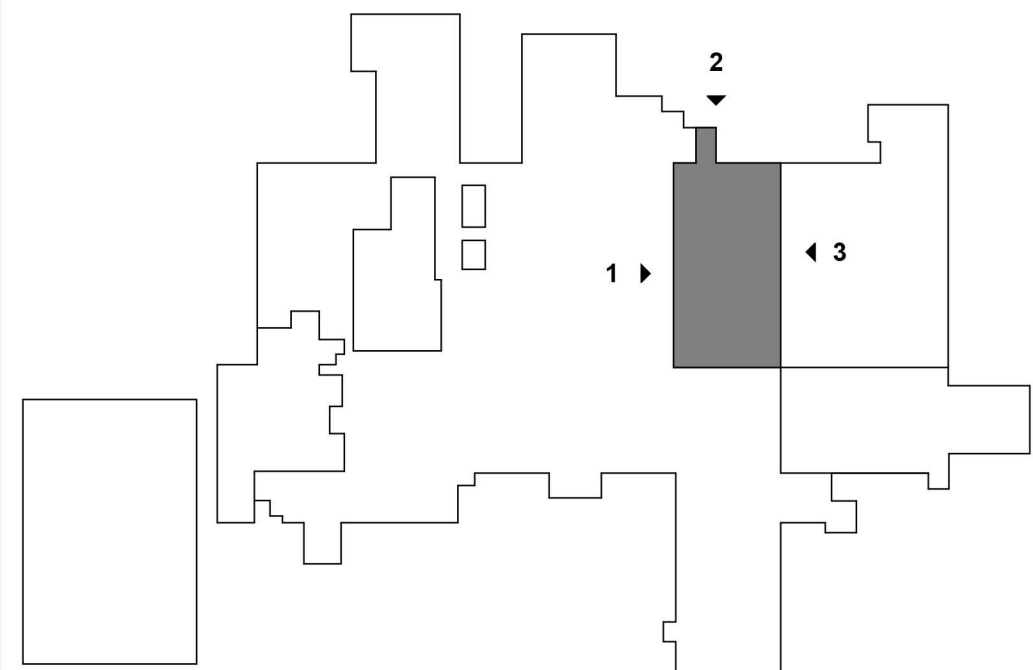
1/8" = 1'-0"



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

1/8" = 1'-0"

KEYPLAN



Consultant:

PRELIMINARY
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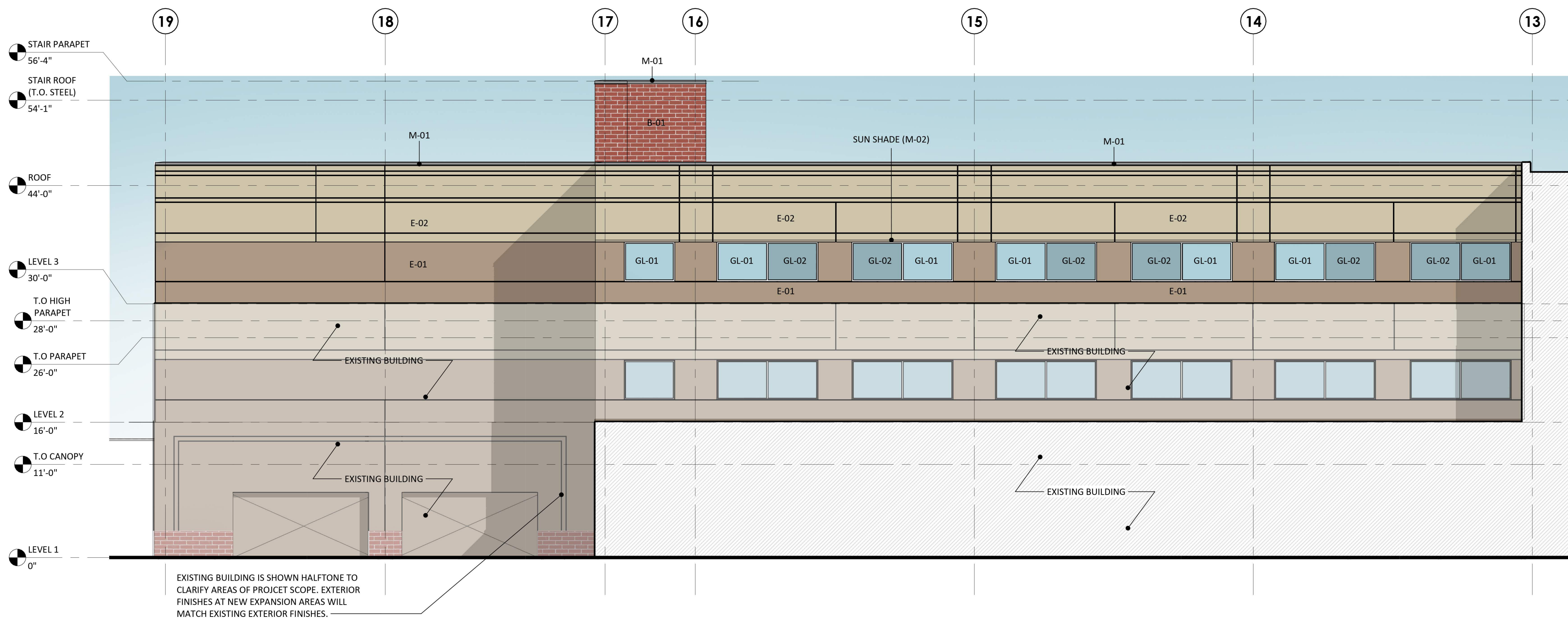
INPATIENT BED
EXPANSIONHCA - LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSSFACILITY NUMBER:
097240009AGENCY APPROVALS:
AGENCY

REVISIONS

REV #	DESCRIPTION	DATE
-------	-------------	------

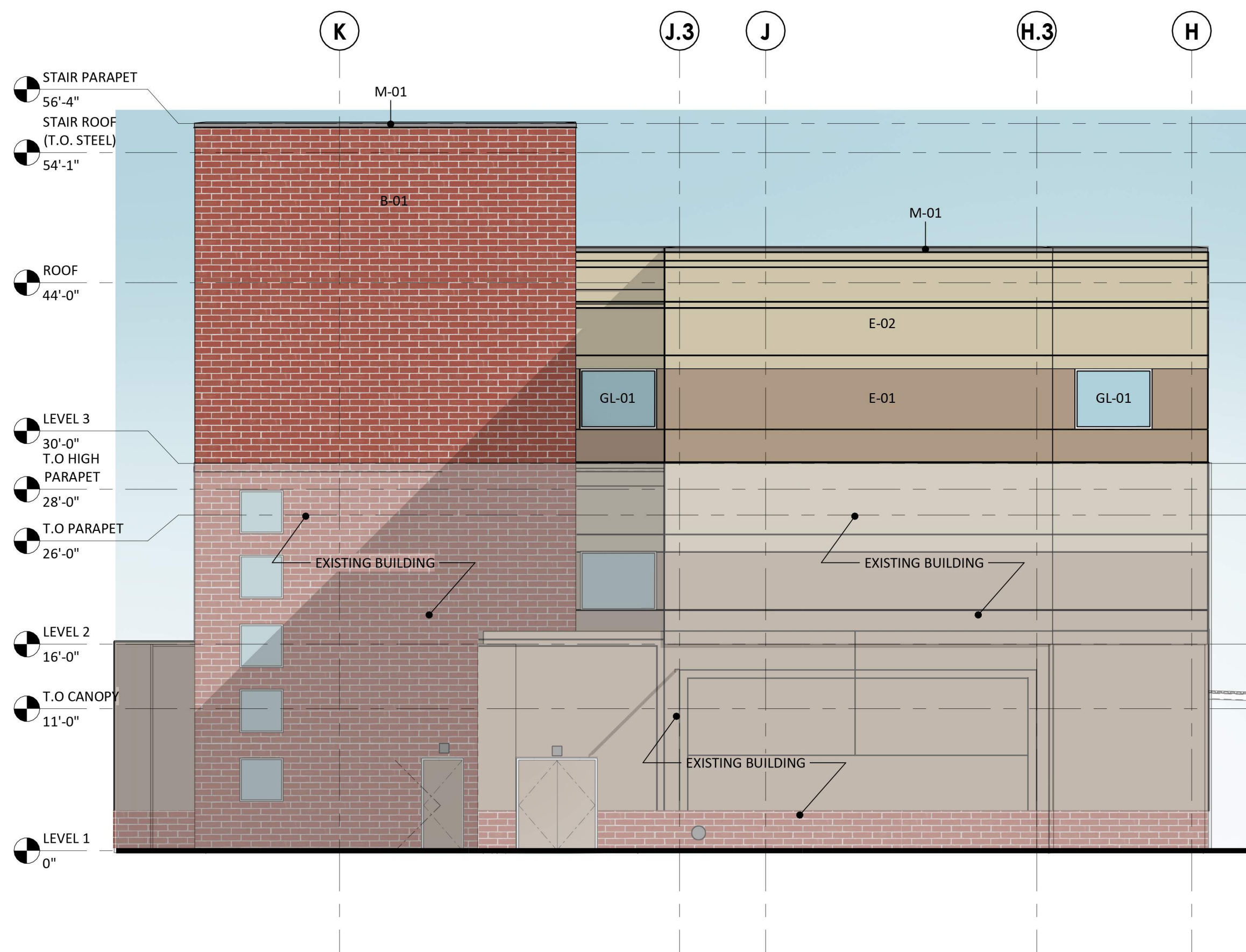
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REVIEWED:
JOB NUMBER: 6406.24EXTERIOR BUILDING
ELEVATIONS

AE203



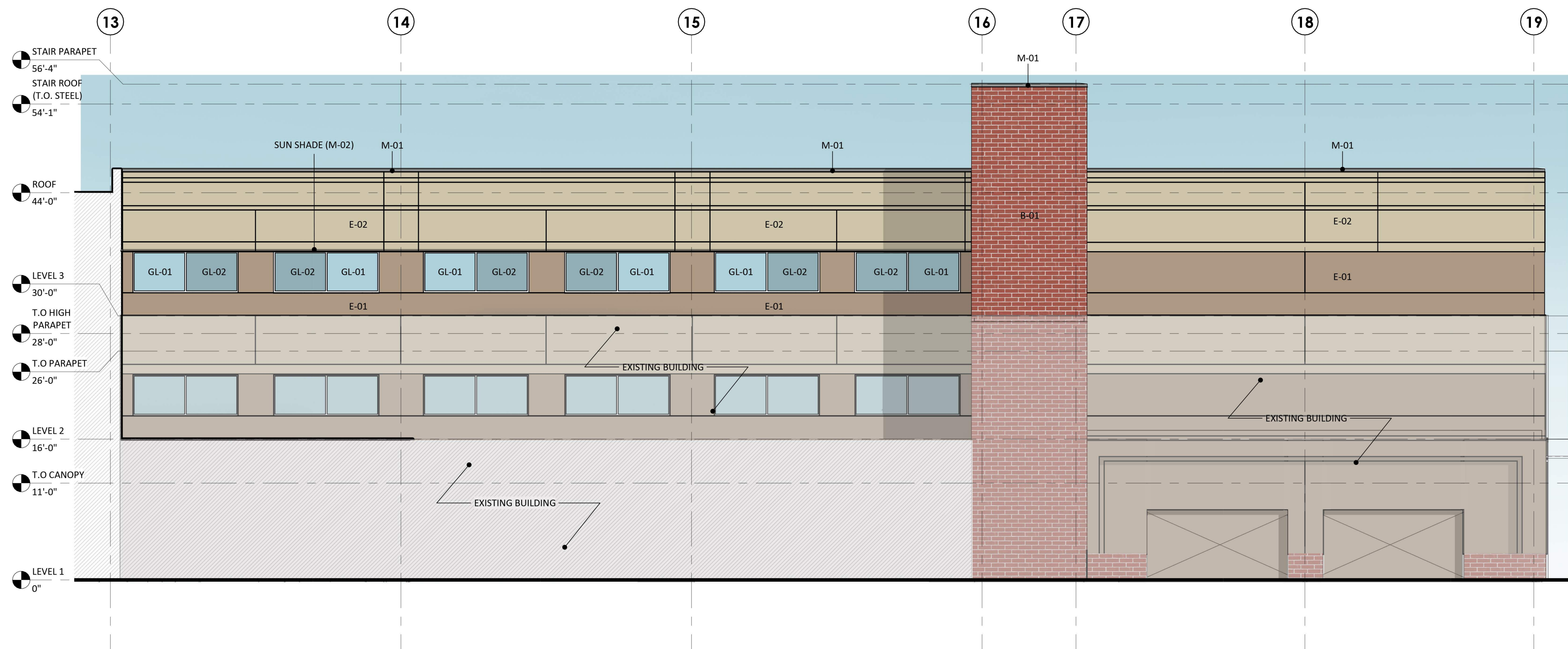
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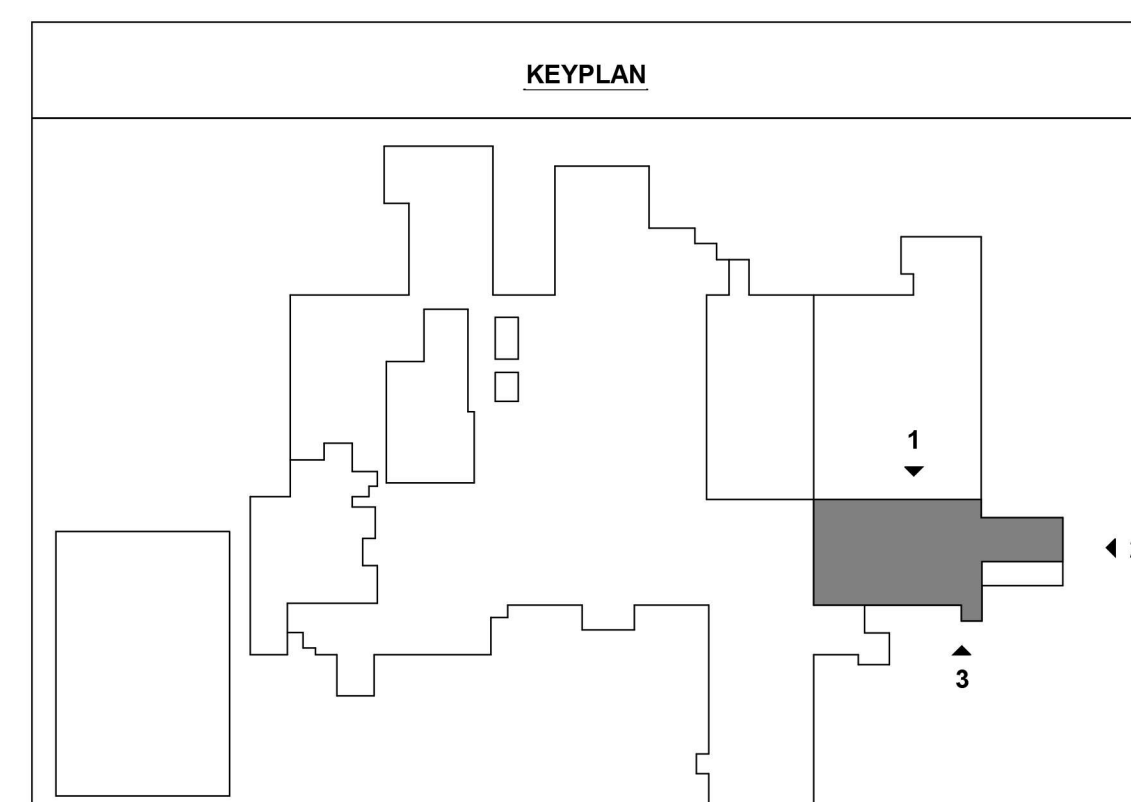
2 EAST ELEVATION - MED SURG (12-BED UNIT)

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 DOCUMENTS TO BE CONSIDERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRELATION OF 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 LAWS GOVERNING THE PROJECT, AND DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS, AND AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTS. ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION. IF THE CONTRACTOR DOES NOT BRING SUCH DISCREPANCIES TO THE ARCHITECT'S ATTENTION IMMEDIATELY, THEY ARE HEREBY 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.

4. 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.

5. 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 ON THE DRAWINGS. DIMENSIONS NOT SPECIFIED SHALL BE 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.

6. THE CONTRACTOR OR ITS SUBS, IF ANY, 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.

7. THE CONTRACTOR SHALL PROVIDE CRASH-PROOFED CHANGES WITHIN THEIR RESPECTIVE TRADE SHALL PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.

8. 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 STANDARDS, MANUFACTURERS' RECOMMENDATIONS AND WITHIN THEIR LISTING LABELING REQUIREMENTS AND RESTRICTIONS.

9. 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, REFERS TO SPECIFICATIONS (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.
WEATHER-PROOF ENCLOSURES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT DEVICES AND APPURTENANCES (ALL SYSTEMS) INSTALLED OUTDOORS.
3. COORDINATE AND SCHEDULE ALL POWER OUTAGES WITH OWNER. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
4. 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.
DO NOT PERMANENTLY MARK OR REMOVE ANY OF THE 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 DIAGMATICALLY. HOMERUNS SHALL BE COMBINED WHERE NECESSARY IN ACCORD 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 RACEWAY, 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.

1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL WALL AND CEILING 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 AND ARE NOT SUBJECT TO ANY OTHER DRAWING OR SPECIFICATION.
2. 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.
3. 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.
4. PROVIDE THE EXACT POWER REQUIREMENTS AND WIRING INFORMATION FOR EACH RECEPTACLE EQUIPMENT FURNISHED BY THE OWNER, OTHER TRADES, OR UNDER A SEPARATE SECTION OF THIS CONTRACT PRIOR TO ELECTRICAL ROUGH-IN.
5. 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.
6. 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/TAG-OUT 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. PROVIDE ALL NECESSARY ELECTRICAL CONNECTIONS TO ALL EQUIPMENT FOR PROTECTION FOR ALL EQUIPMENT.
2. VISIT EXACT LOCATION OF ALL POWER CONNECTIONS AND CONTROL DEVICES WITH OTHER TRADES AND MECHANICAL TRADES 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. UNO
	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
	QUADRAPLEX RECEPTACLE (TWO DUPLEX RECEPTABLES UNDER ONE COVERPLATE)	18" AFF
	QUADRAPLEX RECEPTACLE ON EMERGENCY CIRCUIT (TWO DUPLEX RECEPTABLES UNDER ONE COVERPLATE)	18" AFF
	QUADRAPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP (TWO DUPLEX RECEPTABLES UNDER ONE COVERPLATE)	8" AFC OR 42" AFF
	QUADRAPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP ON EMERGENCY CIRCUIT (TWO DUPLEX RECEPTABLES UNDER ONE COVERPLATE)	8" AFC OR 42" AFF
	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)	18" AFF
	FLOOR MOUNTED RECEPTACLE IN FLOOR BOX OR POKE-THRU DEVICE - FLUSH MOUNTED, UNO	FLUSH W FLR SURFACE
	CEILING MOUNTED RECEPTACLE - CONFIGURATION UNO	FLUSH W CLG SURFACE
	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	AS REQUIRED
	WALL MOUNTED JUNCTION BOX FOR DATATELEPHONE - SIZE & MOUNTING AS REQUIRED	AS REQUIRED
	POWER POLE	--
	PLUGMOLD	AS REQUIRED
	DISCONNECT SWITCH (X=FRAME SIZE, Y=FRAME SIZE, Z=NUMBER OF POLES)	AS REQUIRED
	DISCONNECT SWITCH NON-FUSED (X=FRAME SIZE, Z=NUMBER OF POLES)	AS REQUIRED
	ENCLOSED CIRCUIT BREAKER (X=TRIP RATING, Z=NUMBER OF POLES)	AS REQUIRED
	MOTOR STARTER FVNR UNO (#=NEMA SIZE)	AS REQUIRED
	COMBINATION MOTOR CONTROLLER / DISCONNECT SWITCH	AS REQUIRED
	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD AND PILOT LIGHT	AS REQUIRED
	EMERGENCY POWER OFF BUTTON - WALL MOUNTED	AS REQUIRED
	CIRCUIT CONDUCTOR INDICATION (EQUIPMENT GROUND, NEUTRAL, PHASE)	--
	CIRCUIT HOMERUN TO PANELBOARD (2#12, 1#12G, 3#14, 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.

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

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

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EQUIPMENT (ID) NUMBER FOR OWNER PROVIDED EQUIPMENT. REFER TO OWNER'S EQUIPMENT BOOK / IF/BAE 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) OR 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.

NFPA CLASS COMPONENTS: (75"=X) I OR II, (75<X) II (CHOOSE)

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.		
SYMBOL	DESCRIPTION	MNTG. HT. UN. (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

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 ARCHITECT'S 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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INTERIM REVIEW ONLY
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Engineer: MINDY WHISLER
Eng. Reg. No. 256-0017000125
Date: 07/24/2024
Firm: 2513001881

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

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CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400009

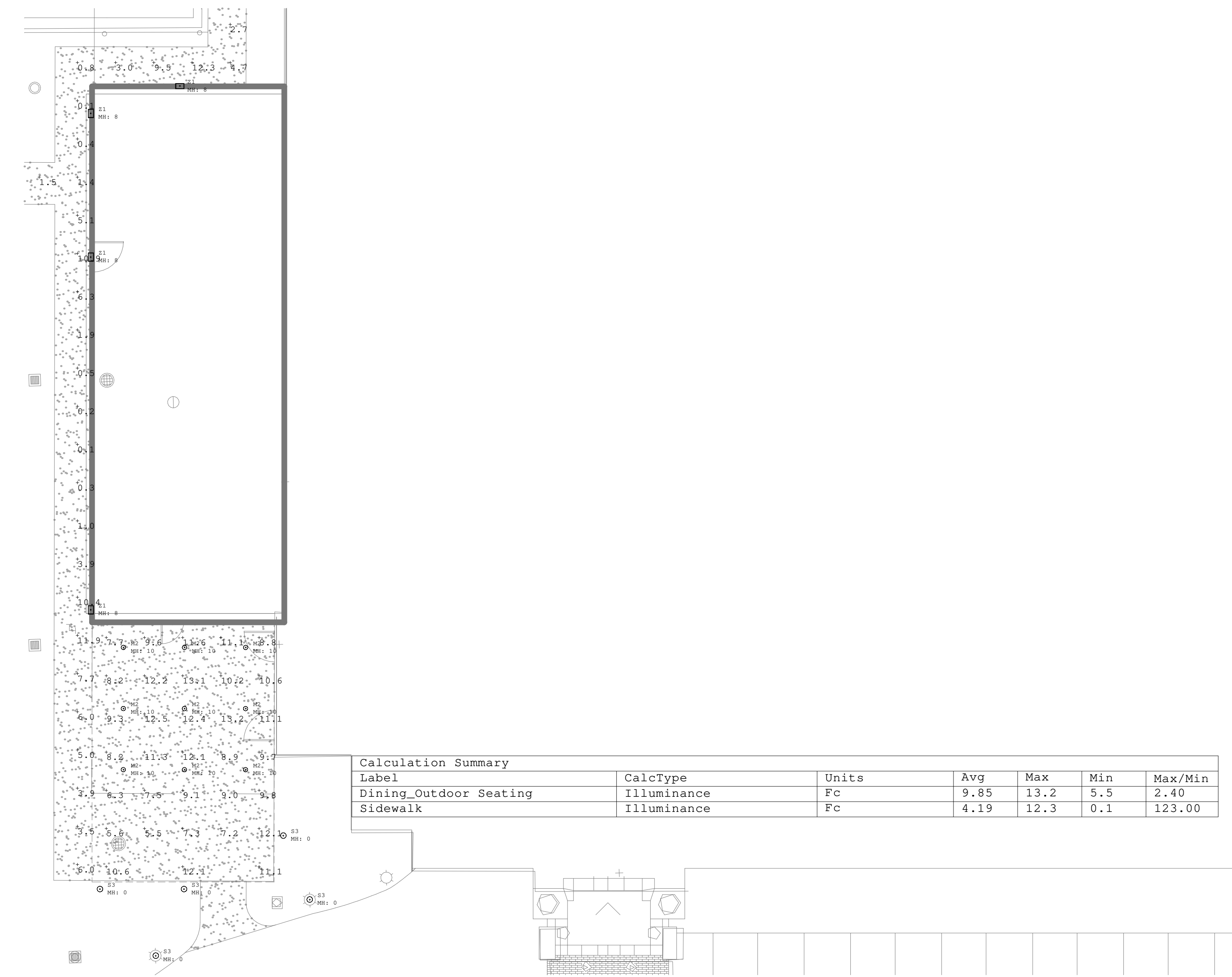
AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

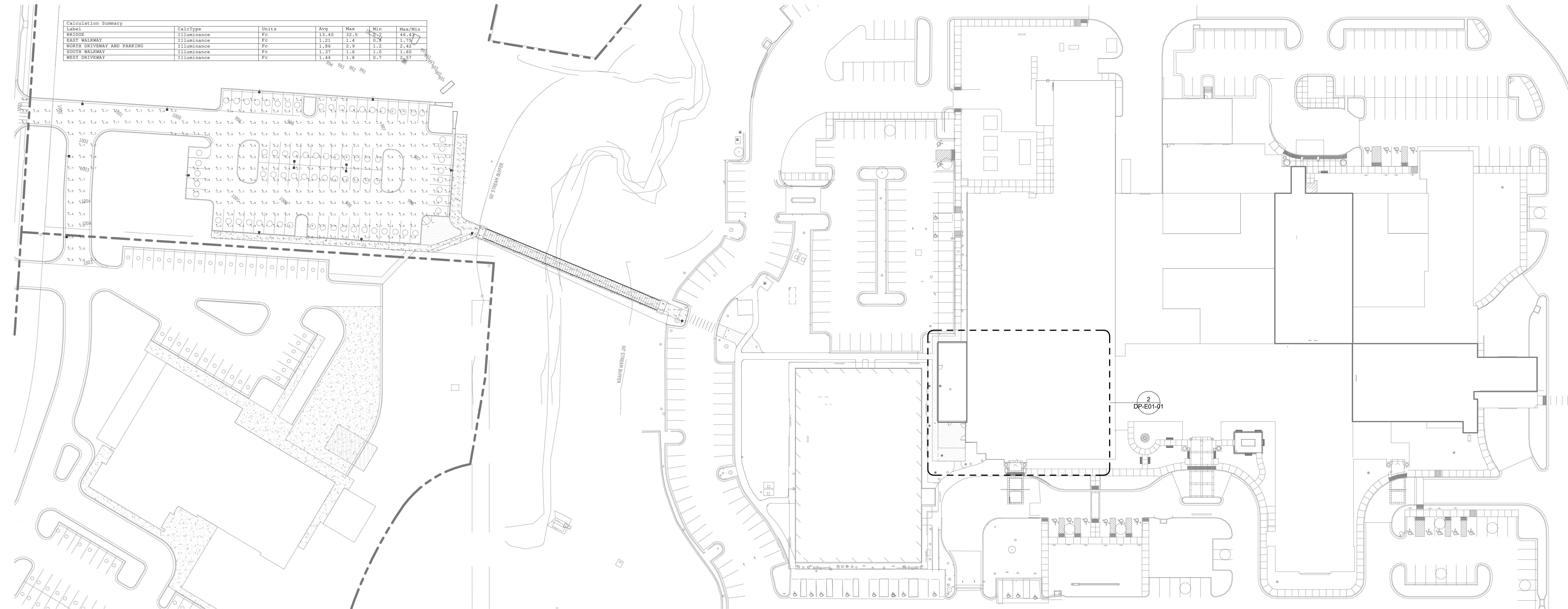
DATE: 2024/07/24
SCALE: As indicated
DRAWN: Author
REVIEWED: Checker
JOB NUMBER: 6406.24

SITE PLAN - PHOTOMETRICS

DP-E01-01



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



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

Autodesk Docx/6406.24.0001 - HCA - LSNC Med Surge Expansion - v23/NEP - LSNC Med Surge Expansion - v23.rvt 7/24/2024 3:30:48 PM

Autodesk Docs: /04060.24.0002.1 - RLC - L3M1C Med Surg Expansion IVL23.1V1
 2/24/2024 3:30:40 PM



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

Consultant:

INTERIM REVIEW ONLY
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Engineer: MINNIE WHEELER
Eng. Reg. No.: 25-0017000125
Date: 07/24/2024
Proj.: 2013001981

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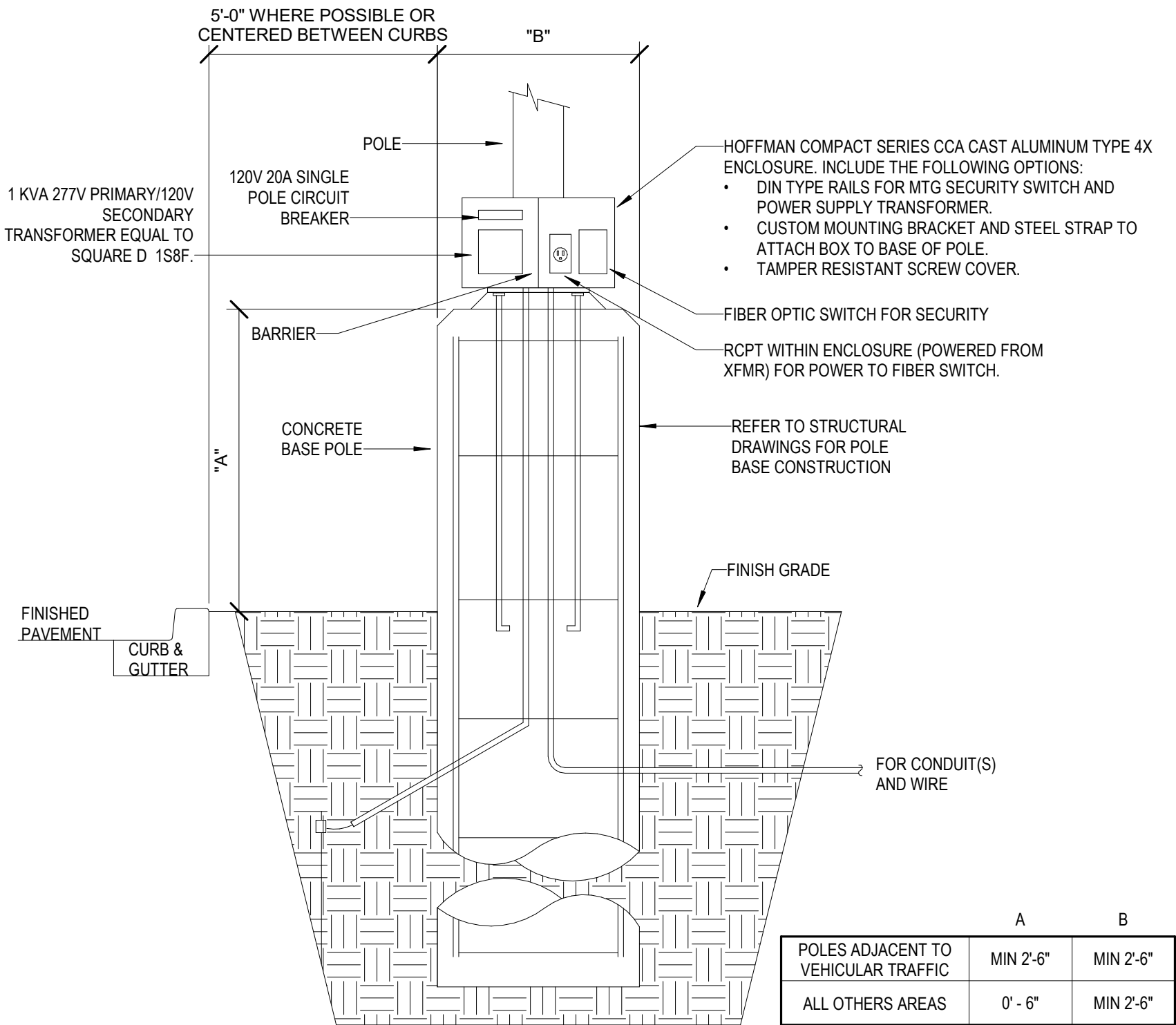
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REV #	DESCRIPTION	DATE

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DETAILS - ELECTRICAL

DP-E07-01



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



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Engineer: MINDY WEBSTER
King Reg. No. 25-00170001025
Date: 07/24/2024
Firm: 2013031981

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MISSOURI DHSS

FACILITY NUMBER:
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REVISIONS		
REV #	DESCRIPTION	DATE

DATE: 2024/07/24
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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	#J5F 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	#DSX0LED-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	#DSX0LED-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	--	--	--	--	--	--	SPARE	72											
73	EXISTING LOAD	--	30	2	1	20	EXISTING LOAD	74											
75	--	--	--	--	--	--	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: 32.2 89.4														
					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	--	--	--	--	--	--	EXISTING LOAD	46											
47	EXISTING LOAD	--	80	3	1	20	EXISTING LOAD	48											
49	--	--	--	--	--	--	EXISTING LOAD	50											
51	--	--	--	--	--	--	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	--	--	--	--	--	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	--	--	--	--	--	--	EXISTING LOAD	96											
97	EXISTING LOAD	--	20	2	1	20	EXISTING LOAD	98											
99	--	--	--	--	--	--	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				35.2	97.8											
RCPT		720	720		REMOVED CONNECTED LOAD:		0	0											
ADDED CONNECTED LOAD:							1.2	3.3											
TOTAL CONNECTED LOAD:							36.4	101.1											
TOTAL ESTIMATED DEMAND:							36.5	101.3											
NOTES:																			



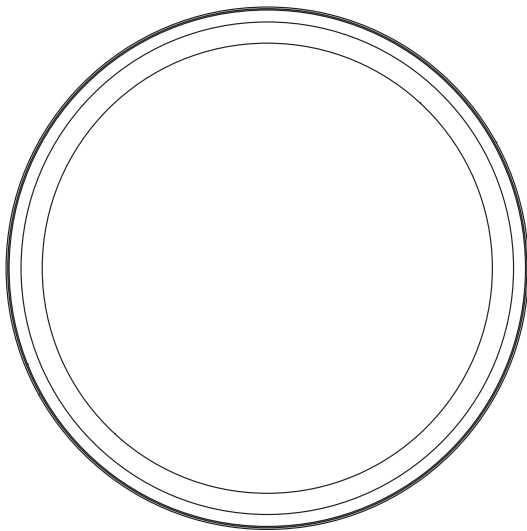
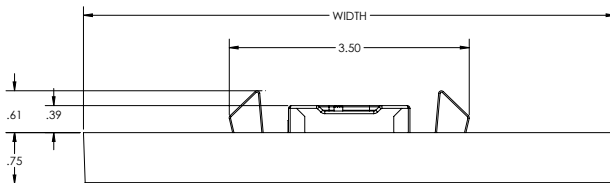
Juno SlimForm™ LED with Selectable CCT

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).



Juno SlimForm™ LED with Selectable CCT

5" and 7" Round Downlight for JBox Installation



JSF

ORDERING INFORMATION

SlimForm LED Downlight

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

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

Note:

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

ACCESSORIES¹

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

Example: JSFTRIM 5IN BZ

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

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

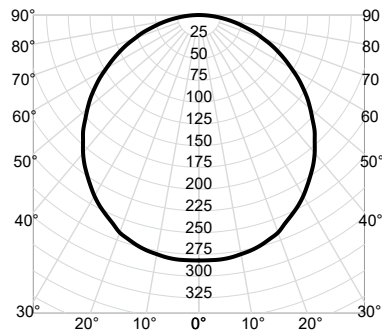
5" and 7" Round Downlight for JBox Installation



JSF

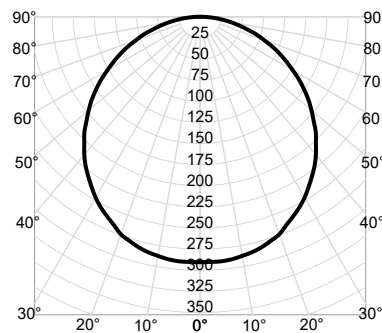
PHOTOMETRICS

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



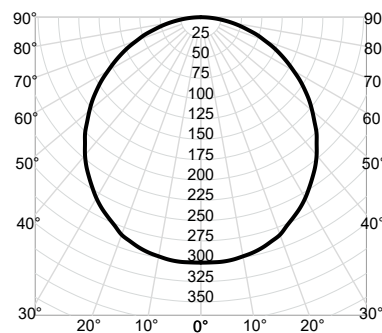
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)		
						pf pc	80%			70%			50%			Mounting Height	Initial FC Center Beam	Beam Diameter			
	0°	Zone	Lumens	% Fixture		pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				Average Luminance		
0°	282	0° - 30°	220	28%	0	119	119	119	116	116	116	111	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	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	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	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	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	47	Beam Angle: 112.3° Field Angle: 163.9°			85°	21,822	
55°	146				6	57	48	41	56	47	41	54	47	41	41						
65°	101				7	52	43	37	51	42	36	49	42	36	36						
75°	56				8	47	39	33	46	38	33	45	38	32	32						
85°	17				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 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									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°	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

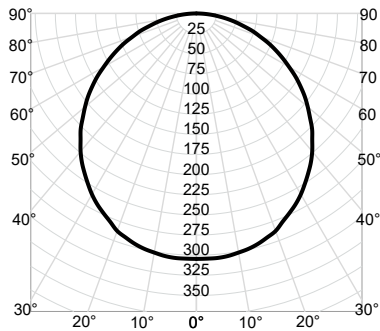
5" and 7" Round Downlight for JBox Installation



JSF

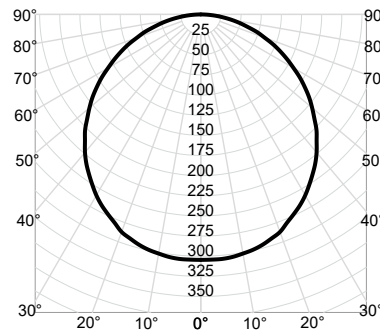
PHOTOMETRICS

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



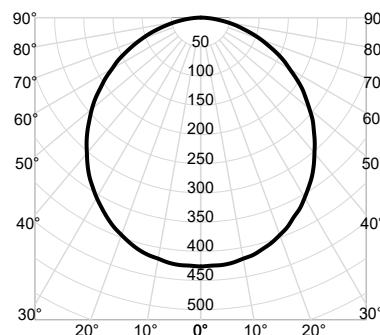
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf	80%			70%			50%			Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance	
	0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	305	0° - 30°	238	28%	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)		
	0°	Zone	Lumens	% Fixture	pf	80%					20%					Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance	
					pc	80%		70%		50%										
					pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
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 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					20%				Mounting Height	Initial FC	Beam Diameter				
						pc	80%				70%				50%				Center Beam	Average Luminance	
0°		Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%							
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	Beam Angle: 109.3° Field Angle: 161.5°			85°	10,029		
55°	212				6	57	48	42	56	47	41	54	47	41							
65°	144				7	52	43	37	51	42	37	49	42	36							
75°	76				8	47	39	33	46	38	33	45	38	32							
85°	20				9	43	35	29	43	35	29	42	34	29							
90°	0				10	40	32	27	39	32	27	38	31	27							



Juno SlimForm™ LED with Selectable CCT

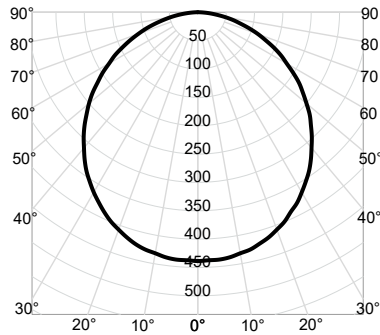
5" and 7" Round Downlight for JBox Installation



JSF

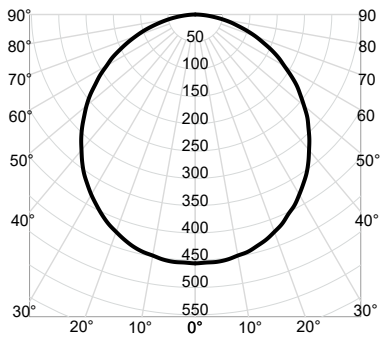
PHOTOMETRICS

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



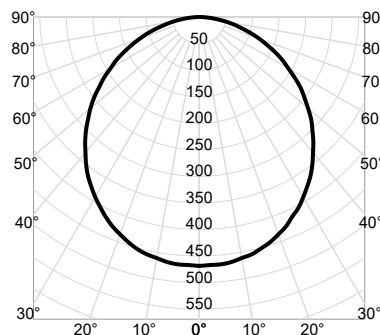
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf					20%						Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
0°		Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	439	0° - 30°	341	28%	0	119	119	119	116	116	116	111	111	111	6.0	12.2	16.9	0°	19,176	
5°	438	0° - 40°	554	45%	1	104	100	96	102	98	94	97	94	91	8.0	6.9	22.5	45°	17,442	
15°	422	0° - 60°	966	79%	2	91	84	78	89	83	77	85	80	75	10.0	4.4	28.2	55°	16,637	
25°	388	0° - 90°	1,218	100%	3	80	72	65	78	71	64	75	69	63	12.0	3.0	33.8	65°	15,338	
35°	342	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	2.2	39.5	75°	13,218	
45°	282	0° - 180°	1,218	100%	5	63	54	48	62	54	47	60	52	47	Beam Angle: 109.3° 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%			20%			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	
						pc	80%					70%						Center Beam		Average Luminance
0°		Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	469	0° - 30°	364	28%	0	119	119	119	116	116	116	111	111	111	6.0	13.0	16.9	0°	20,479	
5°	468	0° - 40°	592	45%	1	104	100	96	102	98	94	97	94	91	8.0	7.3	22.5	45°	18,628	
15°	451	0° - 60°	1,031	79%	2	91	84	78	89	83	77	85	80	75	10.0	4.7	28.2	55°	17,768	
25°	415	0° - 90°	1,300	100%	3	80	72	65	78	71	64	75	69	63	12.0	3.3	33.8	65°	16,380	
35°	365	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	2.4	39.5	75°	14,116	
45°	301	0° - 180°	1,301	100%	5	63	54	48	62	54	47	60	52	47	Beam Angle: 109.3° 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

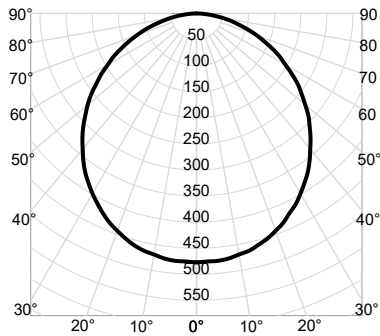
5" and 7" Round Downlight for JBox Installation



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	80%			20%			50%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
	0°	Zone	Lumens	% Fixture	pc	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	Beam Angle: 109.3° Field Angle: 161.5°			85°	11,232	
55°	237				6	57	48	42	56	47	41	54	47	41						
65°	161				7	52	43	37	51	42	37	49	42	36						
75°	85				8	47	39	33	46	38	33	45	38	32						
85°	22				9	43	35	29	43	35	29	42	34	29						
90°	0				10	40	32	27	39	32	27	38	31	27						

Beam Angle: 109.3°
Field Angle: 161.5°

FEATURES & SPECIFICATIONS

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

CONSTRUCTION

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

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

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

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

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

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

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

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

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

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

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

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 ¹		Mounting ²	
RSA	8'-30' (for 1/2 ft increments, add - 6 to the pole height. Ex: 20-6 equals 20ft 6in.) (See technical information table for complete ordering information.)	4C	4" (.125")	<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 mounting³</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 mounting³</u>	
				DM19AS 1 at 90°	
				DM28AS 2 at 180°	
				DM29AS 2 at 90°	
				DM32AS 3 at 120°	
				DM39AS 3 at 90°	
				DM49AS 4 at 90°	
				<u>RAD drill mounting³</u>	
				DM19RAD 1 at 90°	
				DM28RAD 2 at 180°	
				DM29RAD 2 at 90°	
				DM32RAD 3 at 120°	
				DM39RAD 3 at 90°	
				DM49RAD 4 at 90°	
				<u>ESX Drill mounting³</u>	
				DM19ESX 1 at 90°	
				DM28ESX 2 at 180°	
				DM29ESX 2 at 90°	
				DM39ESX 3 at 90°	
				DM49ESX 4 at 90°	
				<u>AERIS™ Suspend drill mounting^{3,4}</u>	
				DM19AST_ 1 at 90°	
				DM28AST_ 2 at 180°	
				DM29AST_ 2 at 90°	
				DM39AST_ 3 at 90°	
				DM49AST_ 4 at 90°	
				<u>OMERO™ Suspend drill mounting^{3,4}</u>	
				DM19MRT_ 1 at 90°	
				DM28MRT_ 2 at 180°	
				DM29MRT_ 2 at 90°	
				DM39MRT_ 3 at 90°	
				DM49MRT_ 4 at 90°	

Options		Finish ¹⁰
L/AB	Less anchor bolts (Include when anchor bolts are not needed)	<u>Super durable paint colors</u>
VD	Vibration damper	
TP	Tamper resistant handhole cover fasteners	DDBXD Dark bronze
HAXy	Horizontal arm bracket (1 fixture) ^{5,6}	DBLXD Black
FDLxy	Festoon outlet less electrical ^{5,7}	DNAXD Natural aluminum
CPL12/xy	1/2" I.D. coupling ⁵	DWHXD White
CPL34/xy	3/4" I.D. coupling ⁵	DDBTXD Textured dark bronze
CPL1/xy	1" I.D. coupling ⁵	DBLBXD Textured black
NPL12/xy	1/2" O.D. threaded nipple ⁵	DNATXD Textured natural aluminum
NPL34/xy	3/4" O.D. threaded nipple ⁵	DWHGXD Textured white
NPL1/xy	1" O.D. threaded nipple ⁵	<u>Brushed finish</u>
EHHxy	Extra handhole ^{5,8}	BA Brushed aluminum
BAA	Buy America(n) Act Compliant ⁹	<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

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POLE-RSA

RSA Round Straight Aluminum Poles

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

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

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

RSA Round Straight Aluminum Poles

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

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

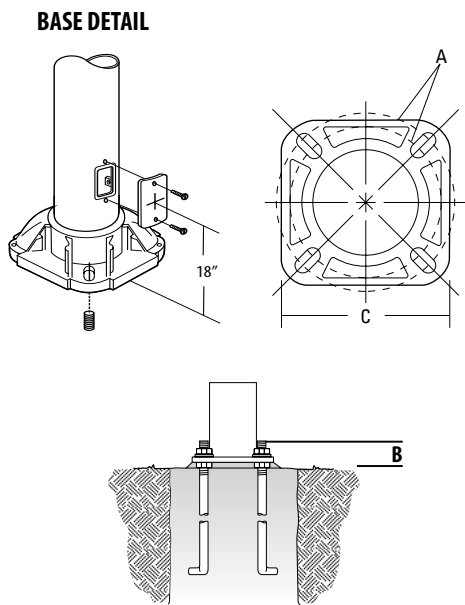
1) Maximum EPA (Effective Projected Area) and weight values are based on the load centroid being 2.5' above the pole top and with 2' eccentricity.

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

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

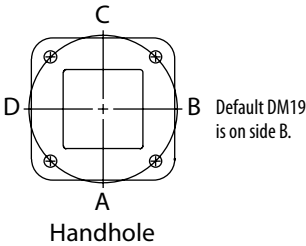
*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

RSA Round Straight Aluminum Poles



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

HANDHOLE ORIENTATION



IMPORTANT INSTALLATION NOTES:

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

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



3140C LED

Impact Resistant Square Bollard Flat Top

HIGHLIGHTS

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

5
YEAR
warranty



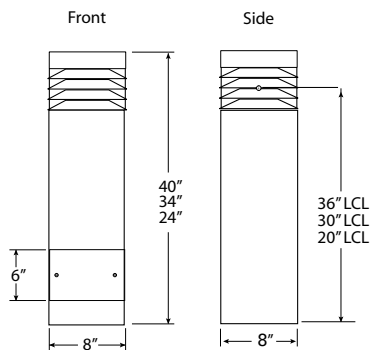
IP65



Specifications

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

DIMENSIONS

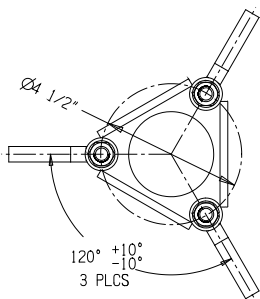


LUMEN PACKAGES

	SYM
Delivered Lumens	1810
Watts	84
LPW	22

Note: Information Based on 50K

MOUNTING



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

ELECTRICAL LOAD

PROJECTED LED LUMEN MAINTENANCE

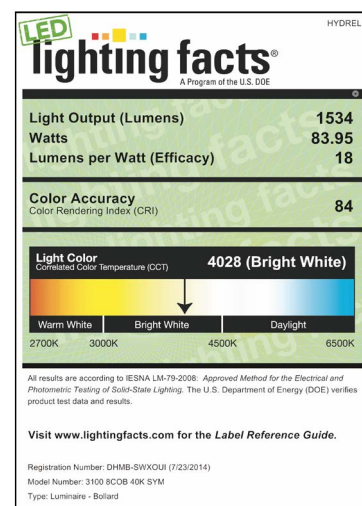
Data references the extrapolated performance projections for the **Fixture** platform in a **25°C ambient**, based on 13,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

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	1.05
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

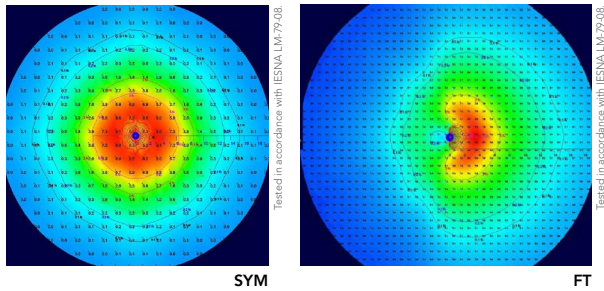


Notes:

- 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/



LUMEN OUTPUT

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

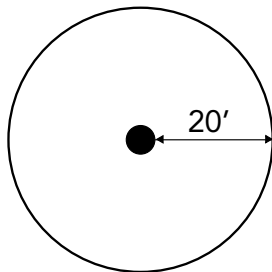
Light Engines	Distribution	Drive Current	System Watt	Lumens	LPW	B	U	G
3000K	SYM	250*	72	1300	18	1	2	1
		300	84	1525	18	1	2	1
4000K	SYM	250*	72	1320	18	1	2	1
		300	84	1535	18	1	2	1
5000K	SYM	250*	72	1535	21	1	2	1
		300	84	1810	22	2	2	1
2000K	SYM	1050	72	900	13	1	2	1

*Used with IDIM and BLS options.

LED LIFE: L80/64,000 hours

OPERATING TEMPERATURE: -20°C Through 50°C

APPROXIMATE MOTION SENSOR COVERAGE AREA:



SPECIFICATIONS AND FEATURES

MATERIAL: Copper-free aluminum, A360.

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

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

DISTRIBUTION: SYM - Symmetric, FT - Forward Throw

LENS: Frosted borosilicate glass.

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

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

FASTENERS: Stainless Steel.

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

GOVERNMENT PROCUREMENT

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

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

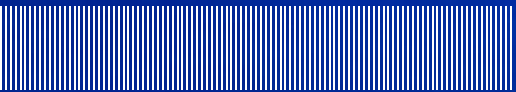
Please refer to www.acuitybrands.com/resources/buy-american for additional information.

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

www.acuitybrands.com/support/warranty/terms-and-conditions

Consult factory for details.

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



iRAILTM LIGHTED RAILING SYSTEM PRODUCT DATA



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.

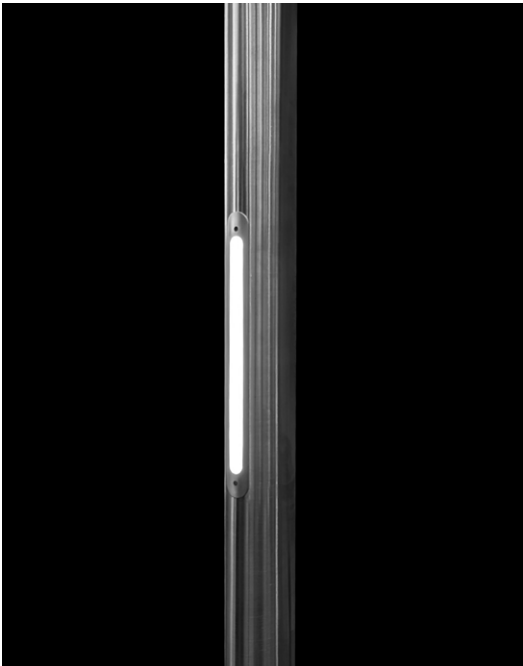
LINEAR



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



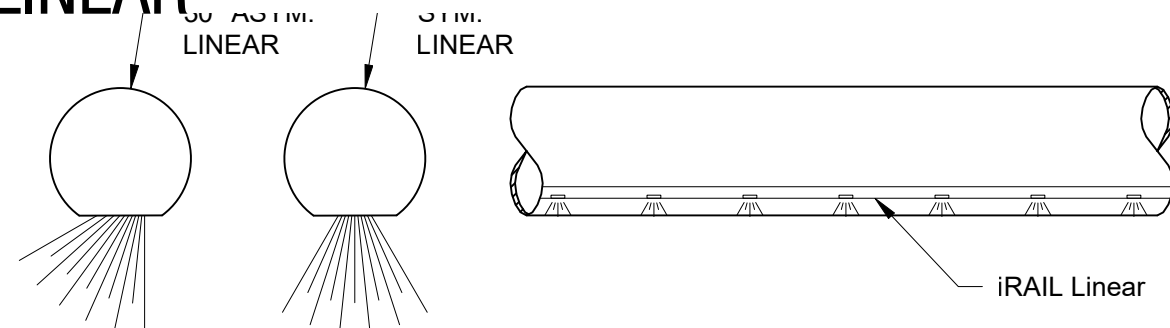
All LED LINEAR products are ETL certified; ETL mark is proof of product compliance to North American safety standard.

2. Other species available upon request



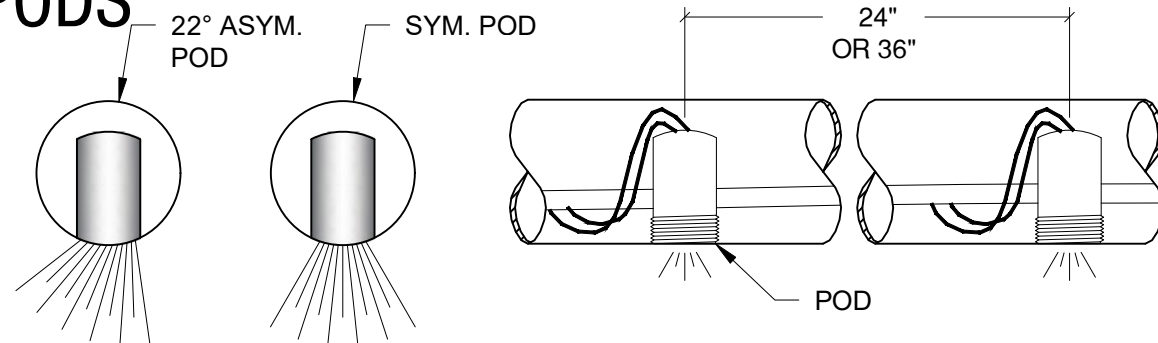
LIGHTED TOPRAIL / HANDRAIL

LINEAR



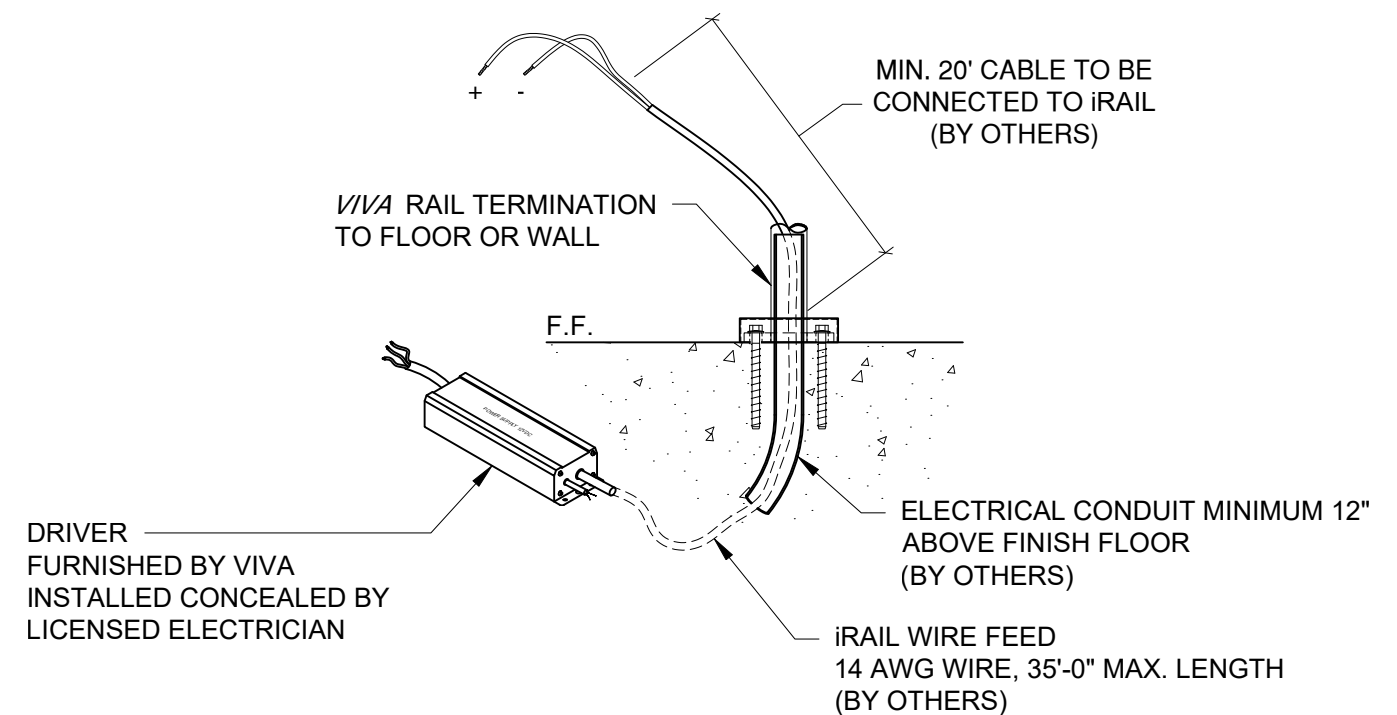
iRAIL LINEAR ORIENTATION OPTIONS

PODS



iRAIL POD ORIENTATION OPTIONS

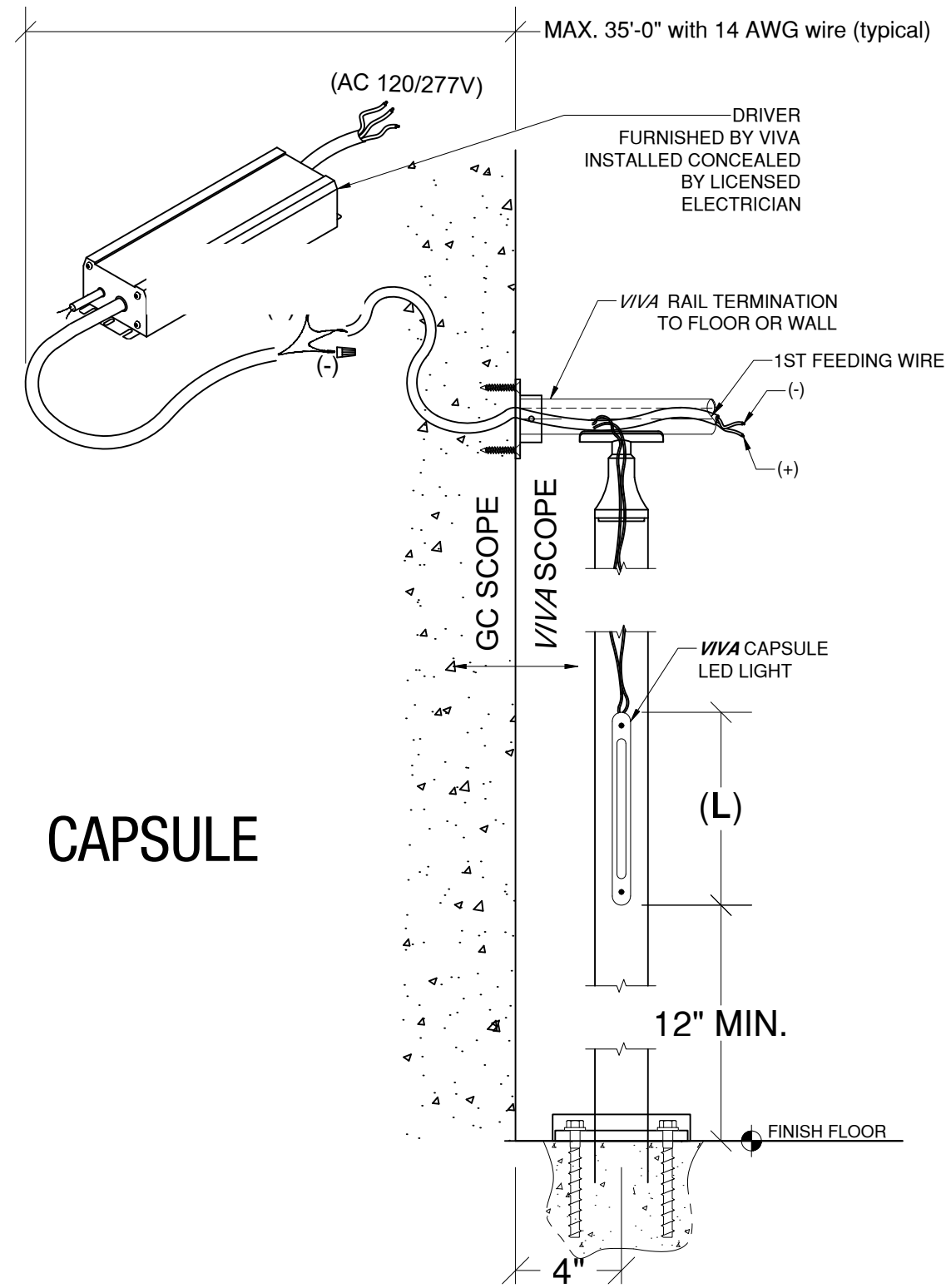
iRAIL POD SPACING OPTIONS



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:

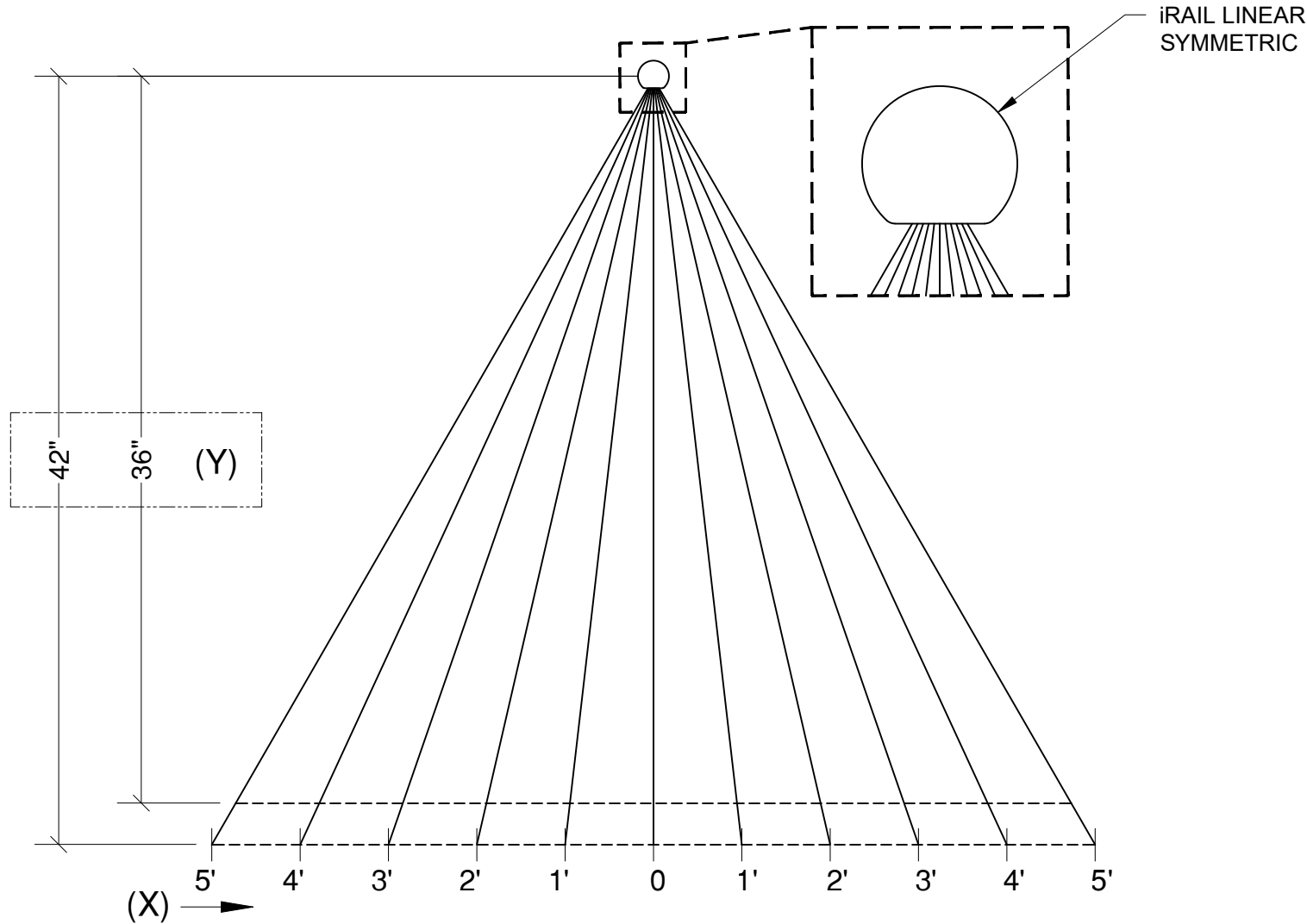
- Color Temp
 - 3000K Warm White or 4000K Cool White
- Power
 - 1.5 W/light (S18R185)
 - 2.5 W/light (S18R285)
 - 3.5 W/light (S18R385)
- Length (L)
 - 185mm (S18R185)
 - 285mm (S18R285)
 - 385mm (S18R385)
- Output:
 - 117lm Sym. (S18R185)
 - 190lm Sym. (S18R285)
 - 248lm Sym. (S18R385)
- Beam angle: 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



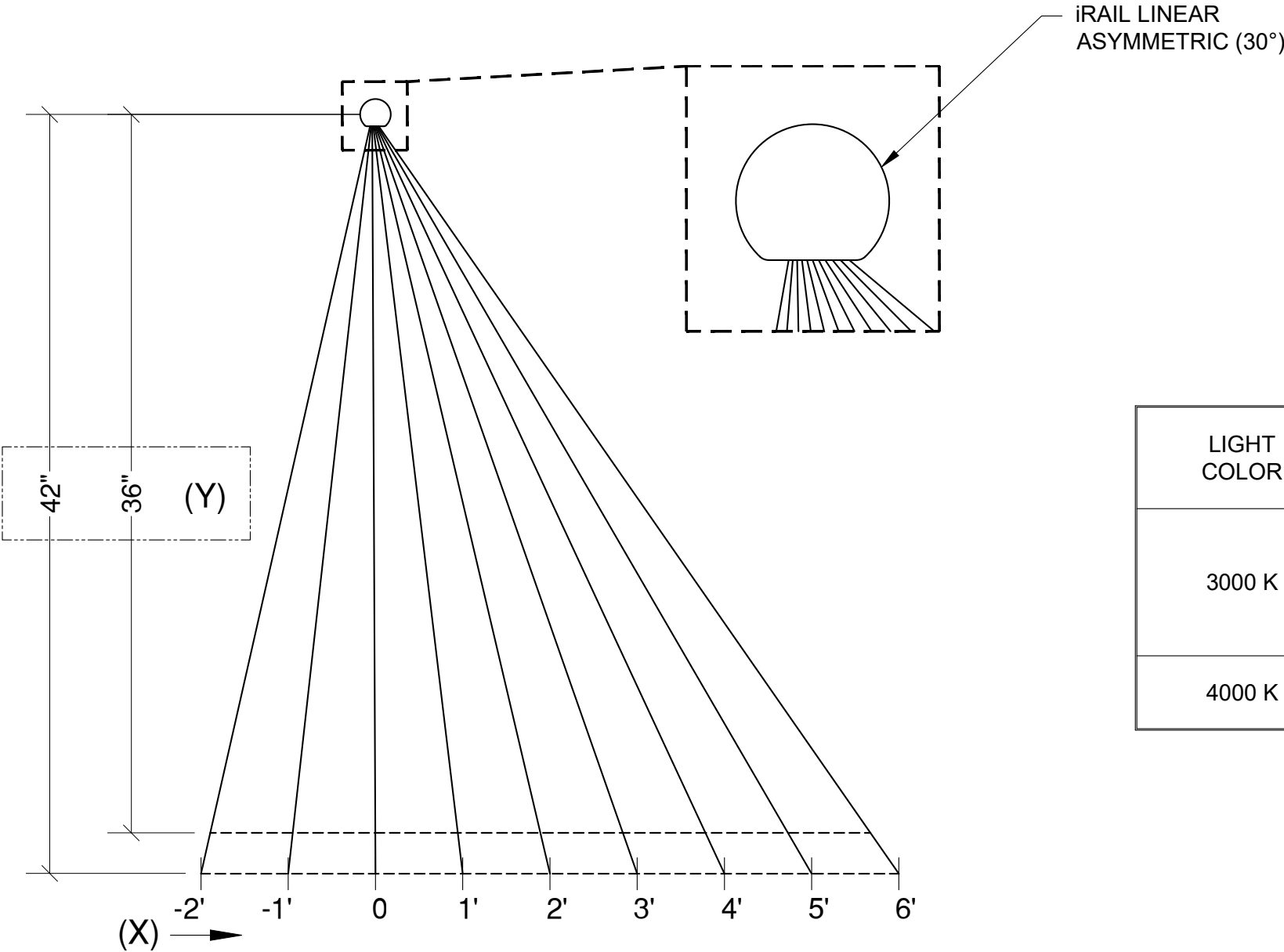
iRAIL LINEAR LIGHT DISPERSION DIAGRAM
All Values in Foot-Candle (FC) +/-15%, Values using clear lens.

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")



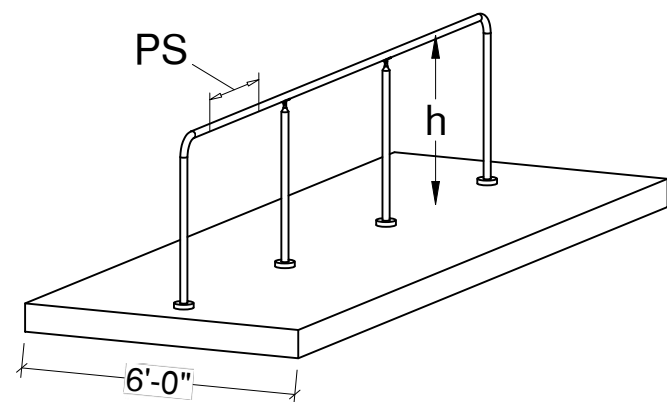
iRAIL LINEAR LIGHT DISPERSION DIAGRAM
All Values in Foot-Candle (FC) +/-15%, Values using clear lens.

LIGHT COLOR	INTENSITY (OUTPUT)	POWER	X \ Y	-2'	-1'	0'	1'	2'	3'	4'	5'
			Y								
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

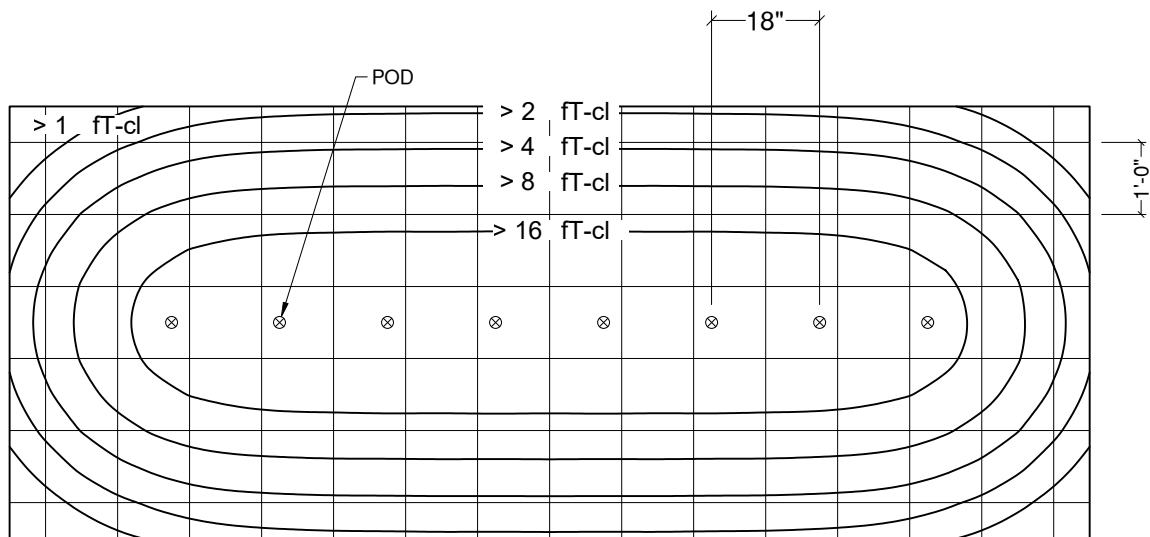
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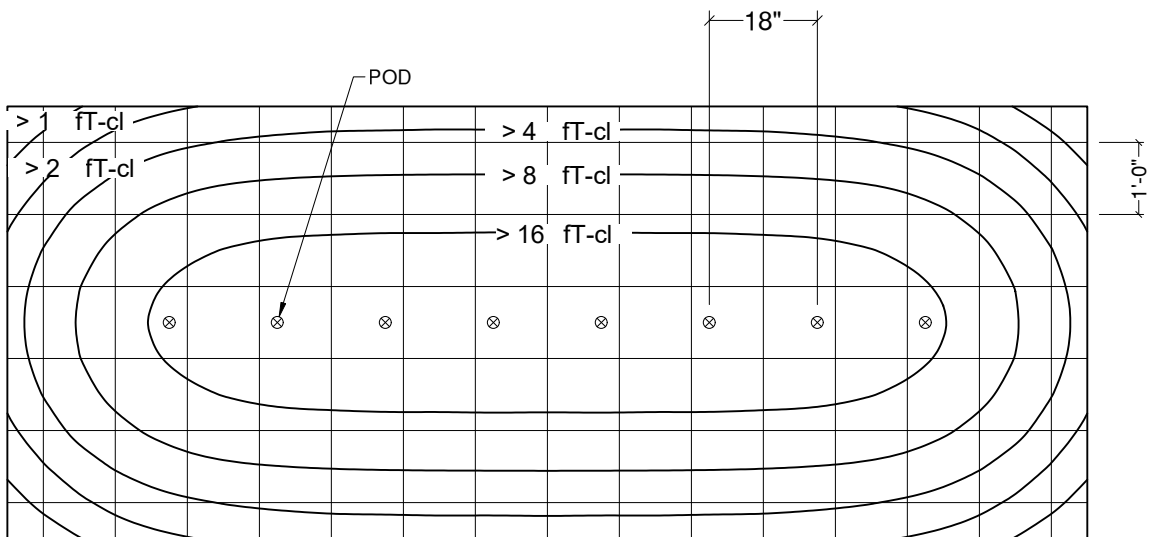
POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 18")



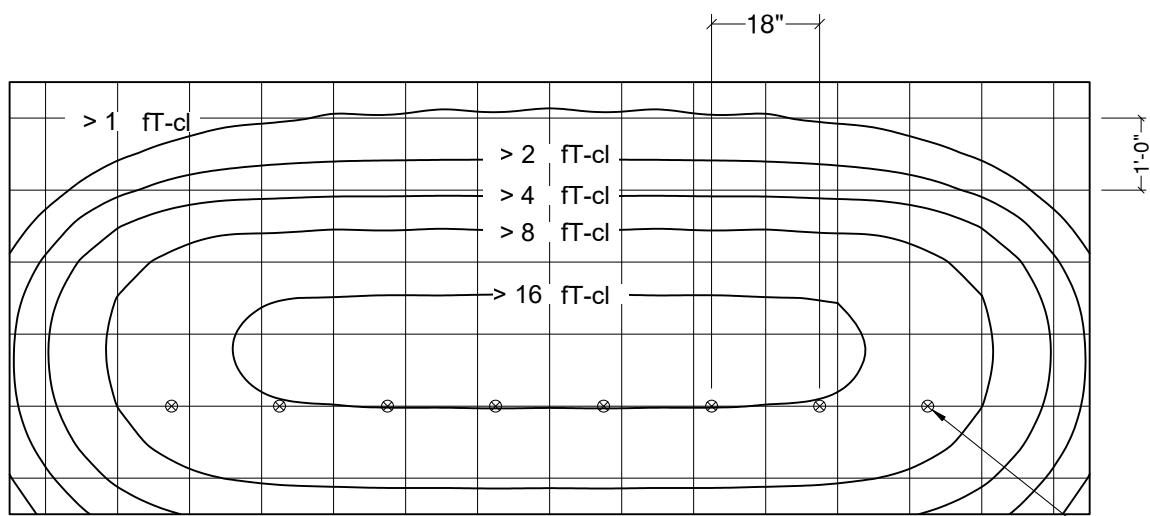
h: Illuminated Rail Height
PS(Pod Spacing) = 18"



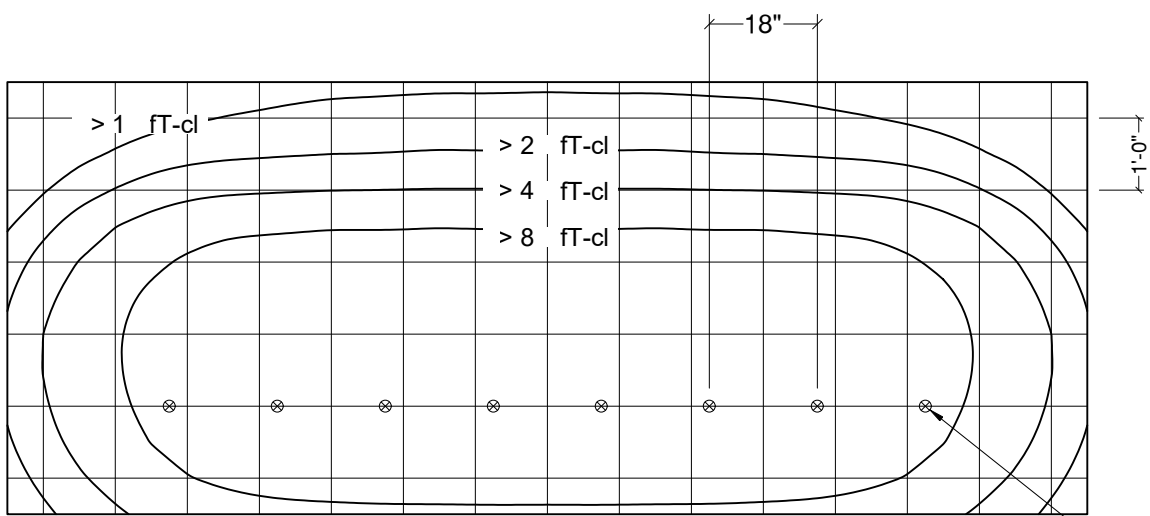
PLAN VIEW, h=36", PS=18", SYMMETRIC PODS
FC: MAX=19.8, MIN=0.2, AVE.=6.1



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

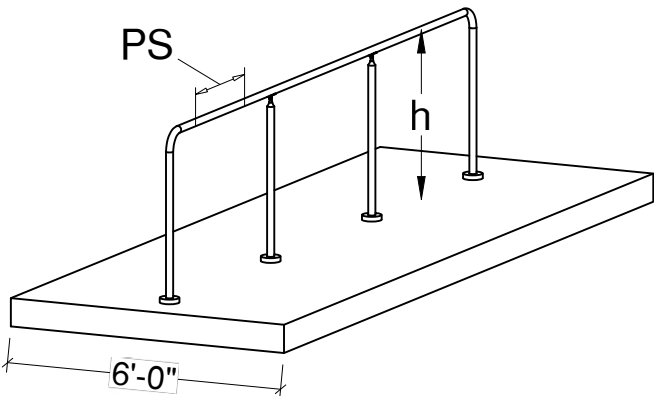


PLAN VIEW, h=42", PS=18", ASYMMETRIC PODS
FC: MAX=13.5, MIN=0.1, AVE.=5.0

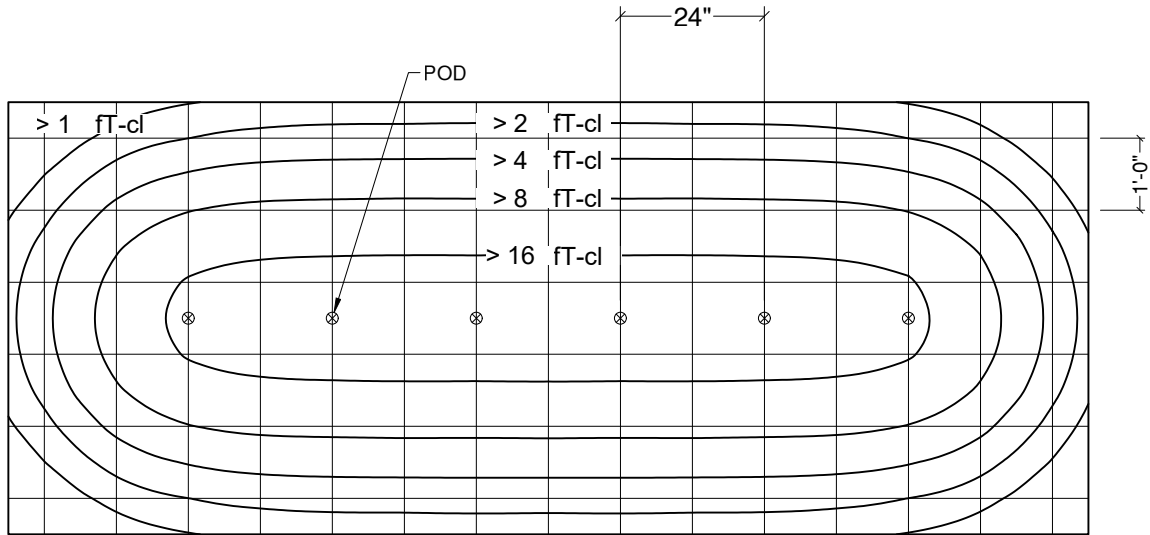
VIVA RAILINGS IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF ANY BUILDING SYSTEMS OR OTHER MATERIALS NOT FURNISHED BY VIVA RAILINGS. VIVA RAILINGS HAS NO WAY OF KNOWING AND SPECIFICALLY DISCLAIMS WHETHER OR NOT THE BUILDING SYSTEMS TO WHICH VIVA RAILINGS' PRODUCTS ARE TO BE ATTACHED ARE STRUCTURALLY 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.



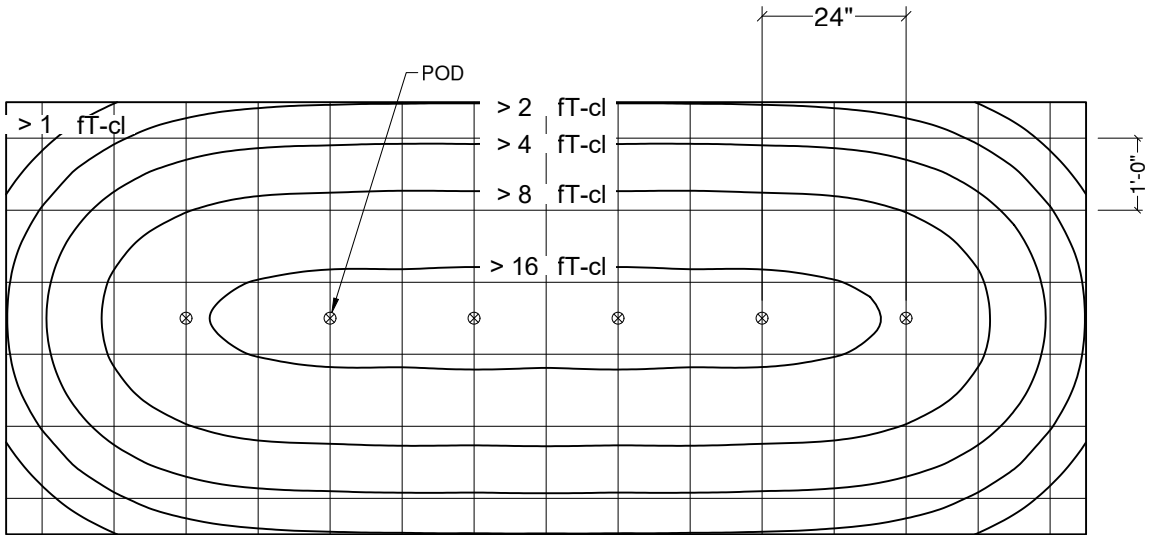
POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 24")



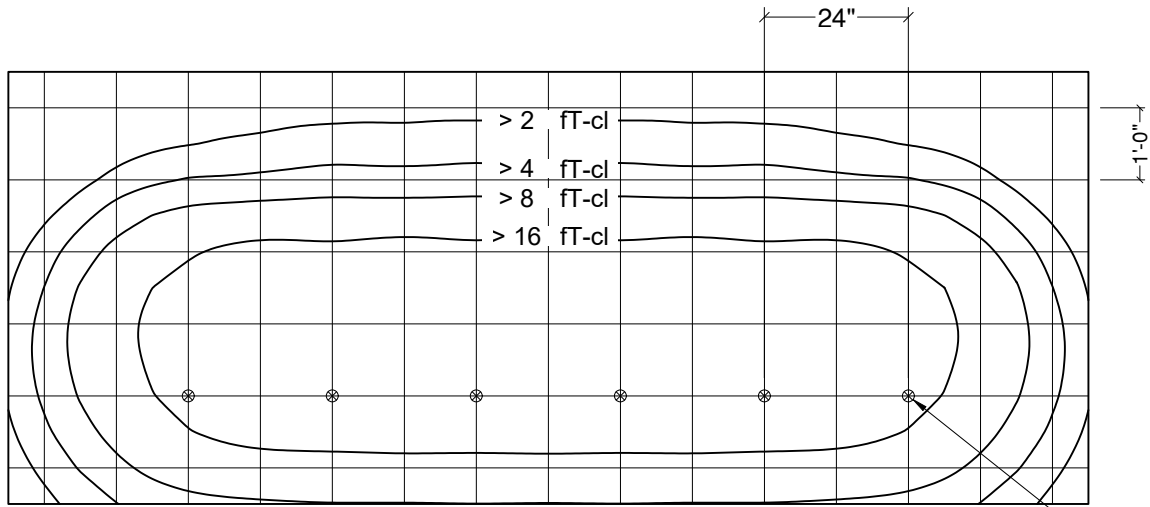
h: Illuminated Rail Height
PS(Pod Spacing) = 24"



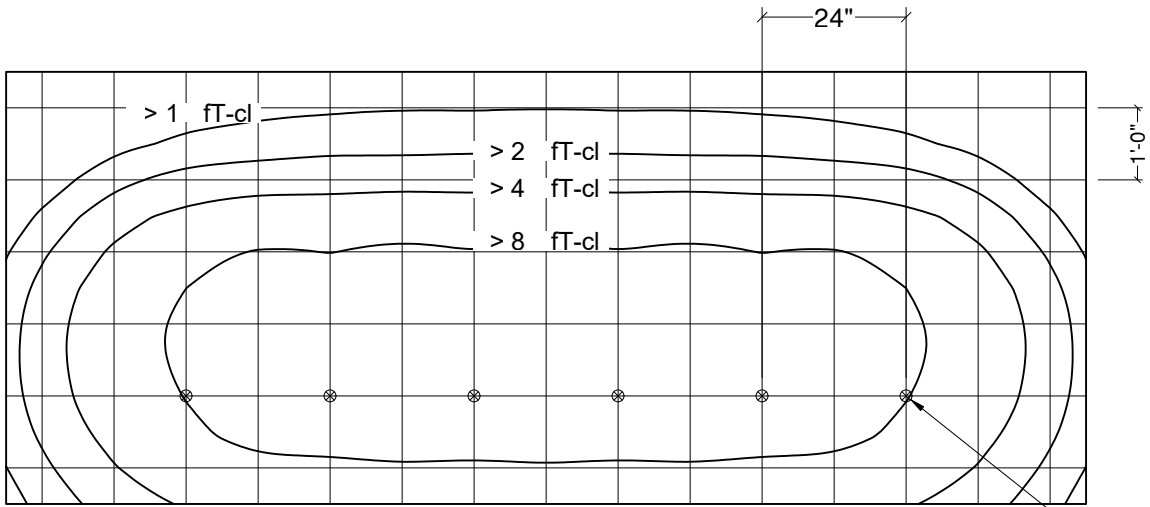
PLAN VIEW, h=36", PS=24", SYMMETRIC PODS
FC: MAX=14.9, MIN=0.1, AVE.=4.6



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

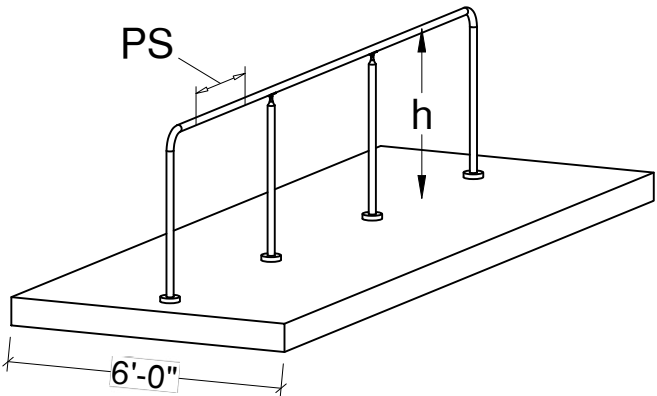


PLAN VIEW, h=42", PS=24", ASYMMETRIC PODS
FC: MAX=10.1, MIN=0.1, AVE.=3.7

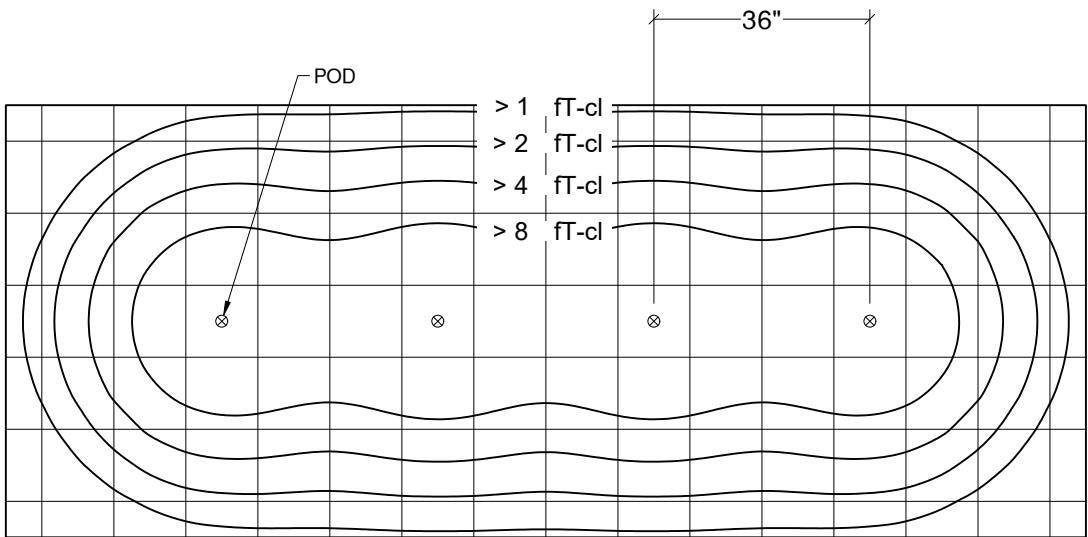
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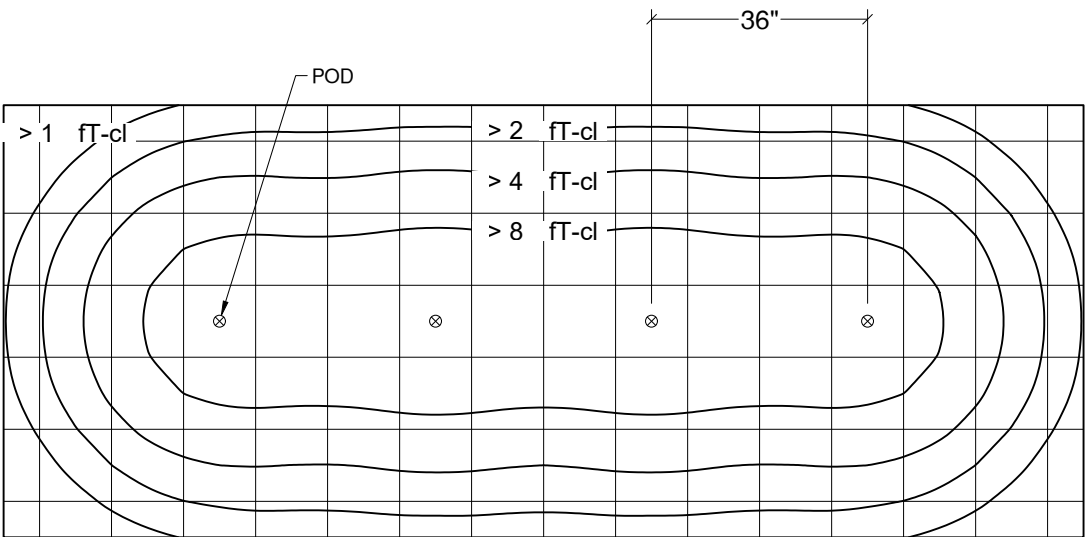
POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 36")



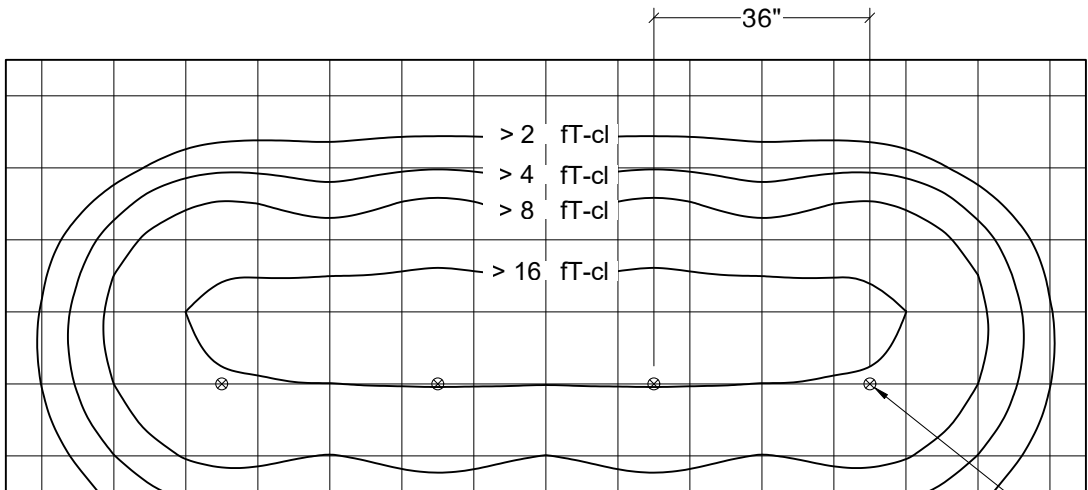
h: Illuminated Rail Height
PS(Pod Spacing) = 36"



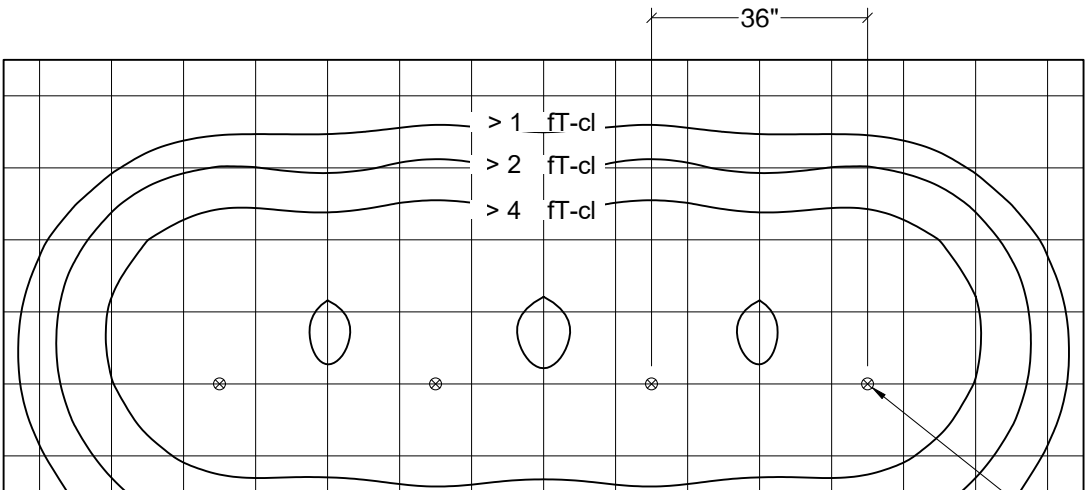
PLAN VIEW, h=36", PS=36", SYMMETRIC PODS
FC: MAX=10.9, MIN=0.1, AVE.=3.0



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

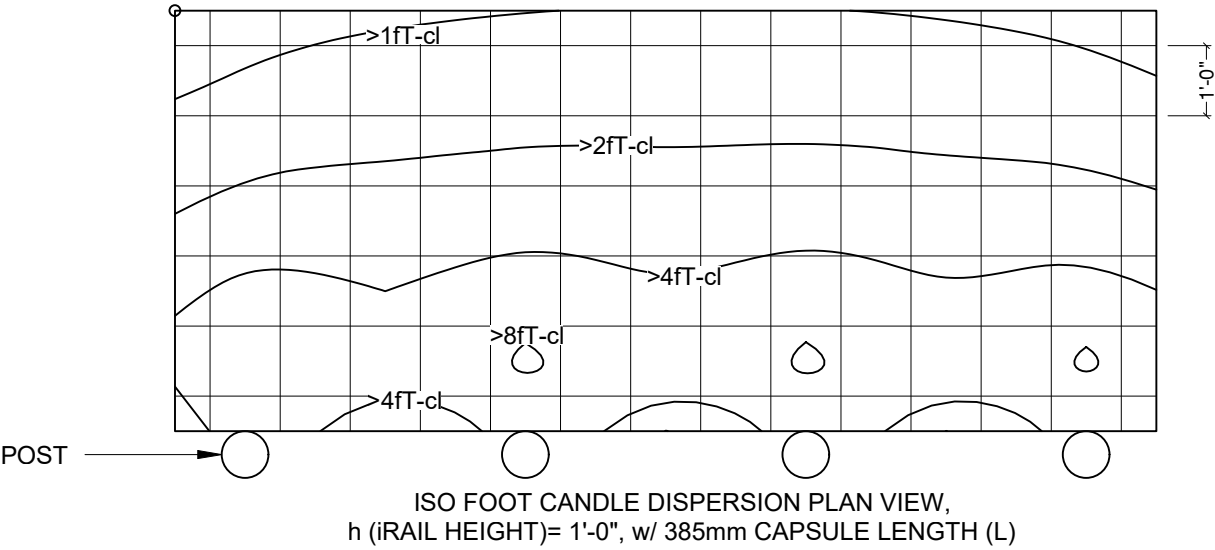
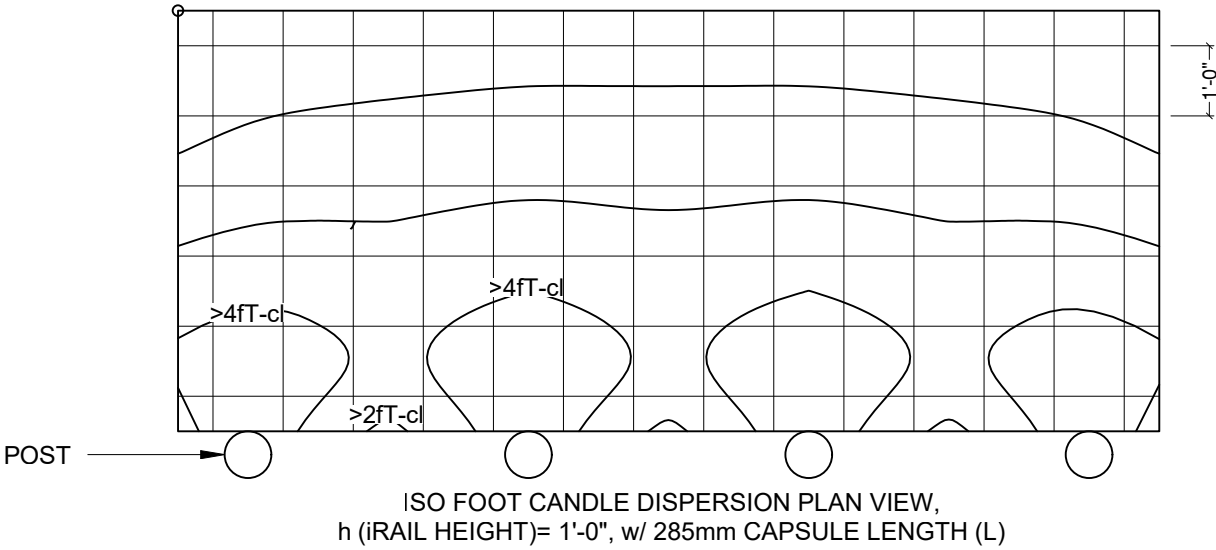
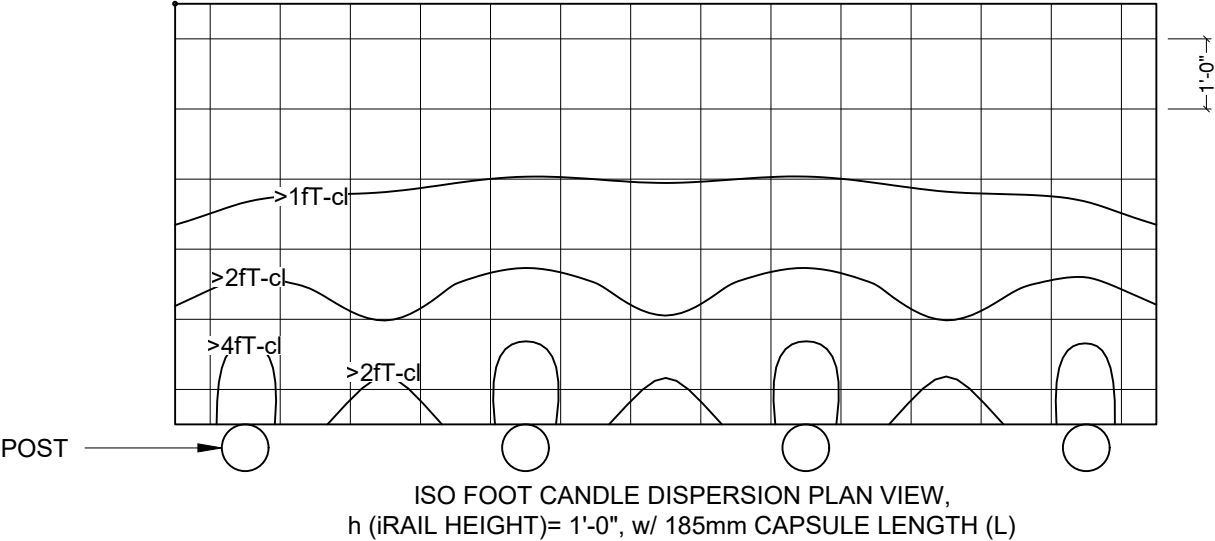
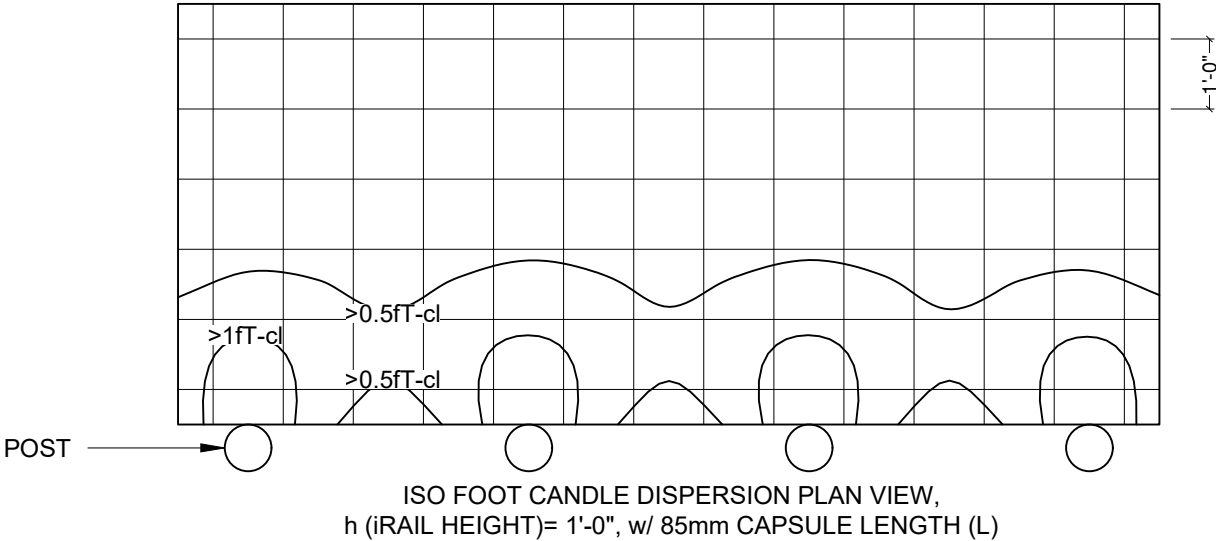
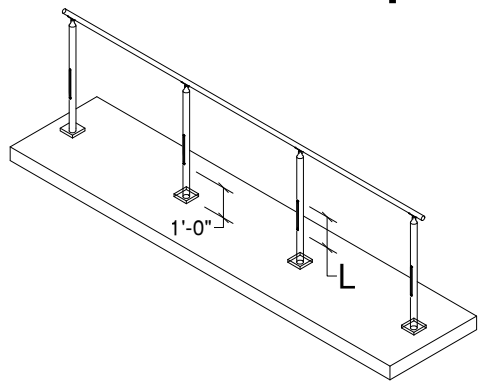


PLAN VIEW, h=42", PS=36", ASYMMETRIC PODS
FC: MAX=6.8, MIN=0.1, AVE.=2.5

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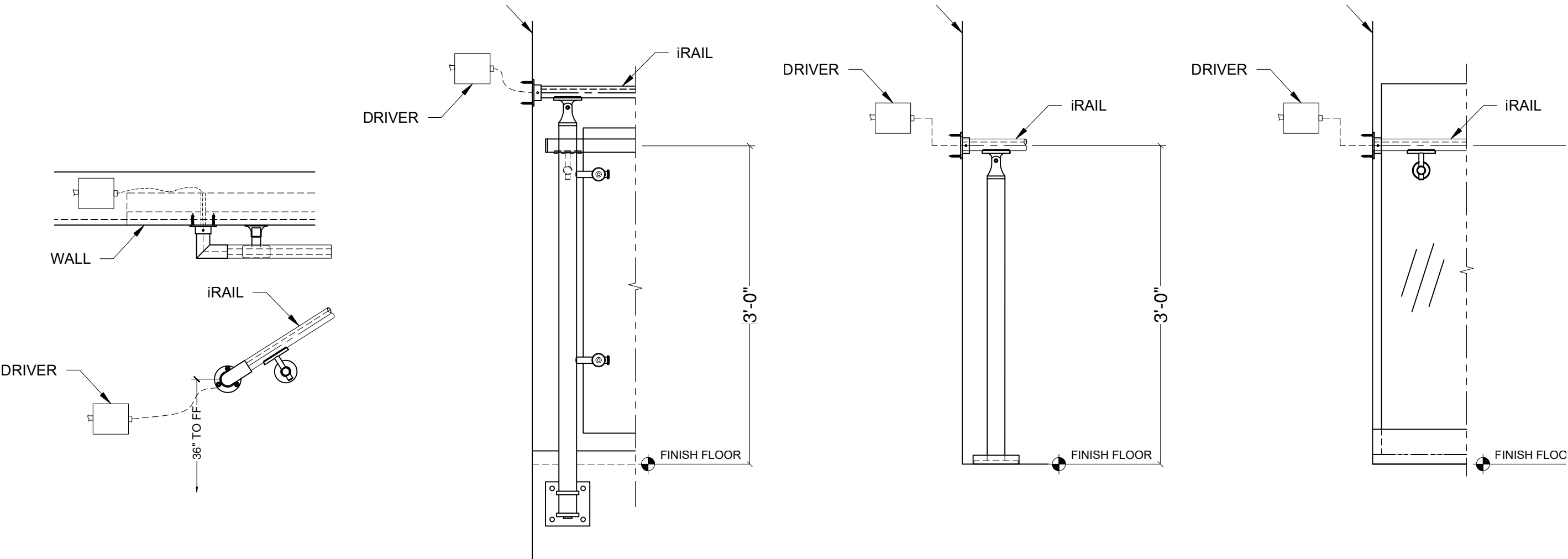
CAPSULE Dispersion Diagram



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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

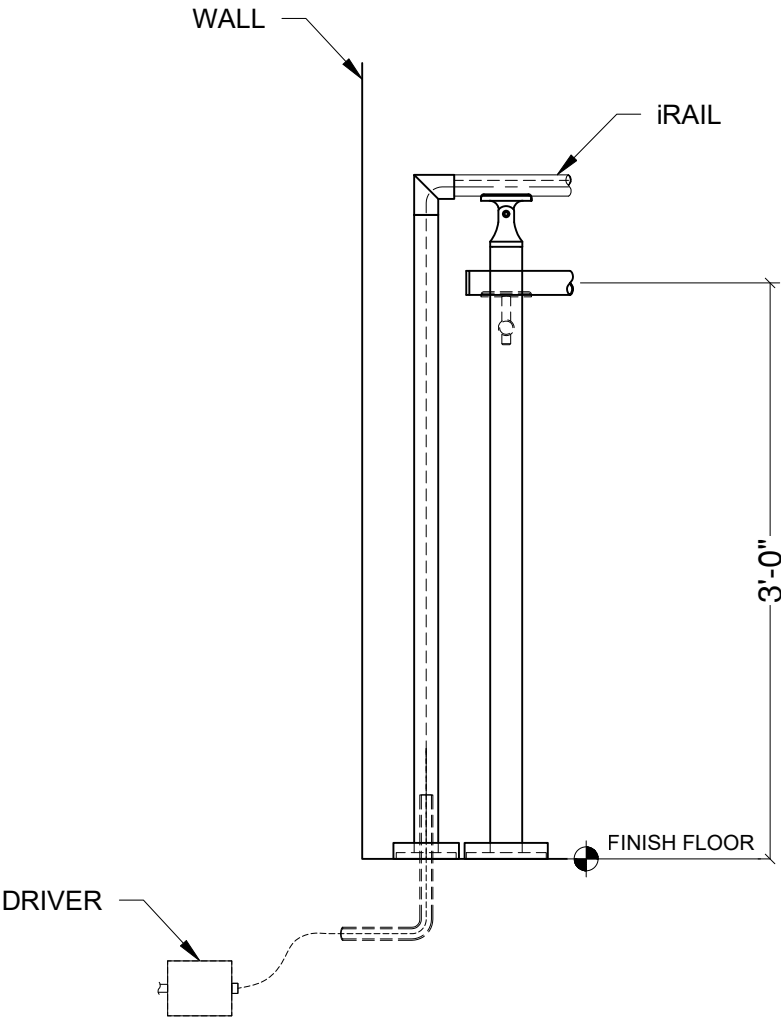
*WALL OR FLOOR WIRE FEED ENTRY REQUIRED AT RAILING TERMINAL POINT. TYP.

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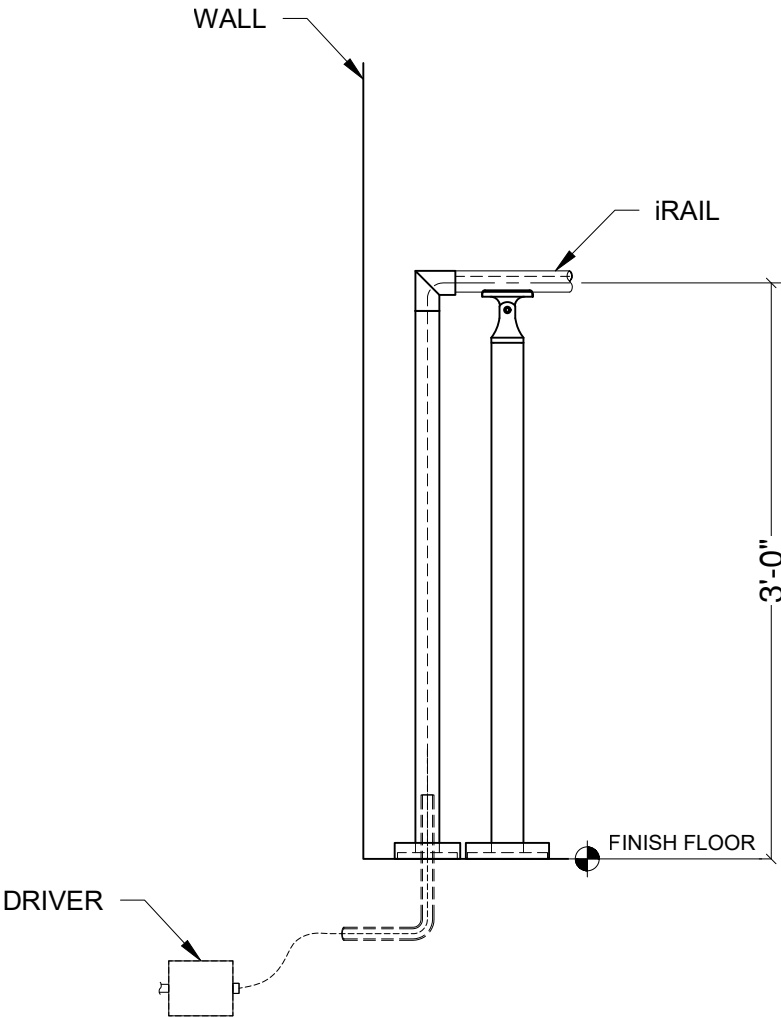


iRAIL LED SYSTEM

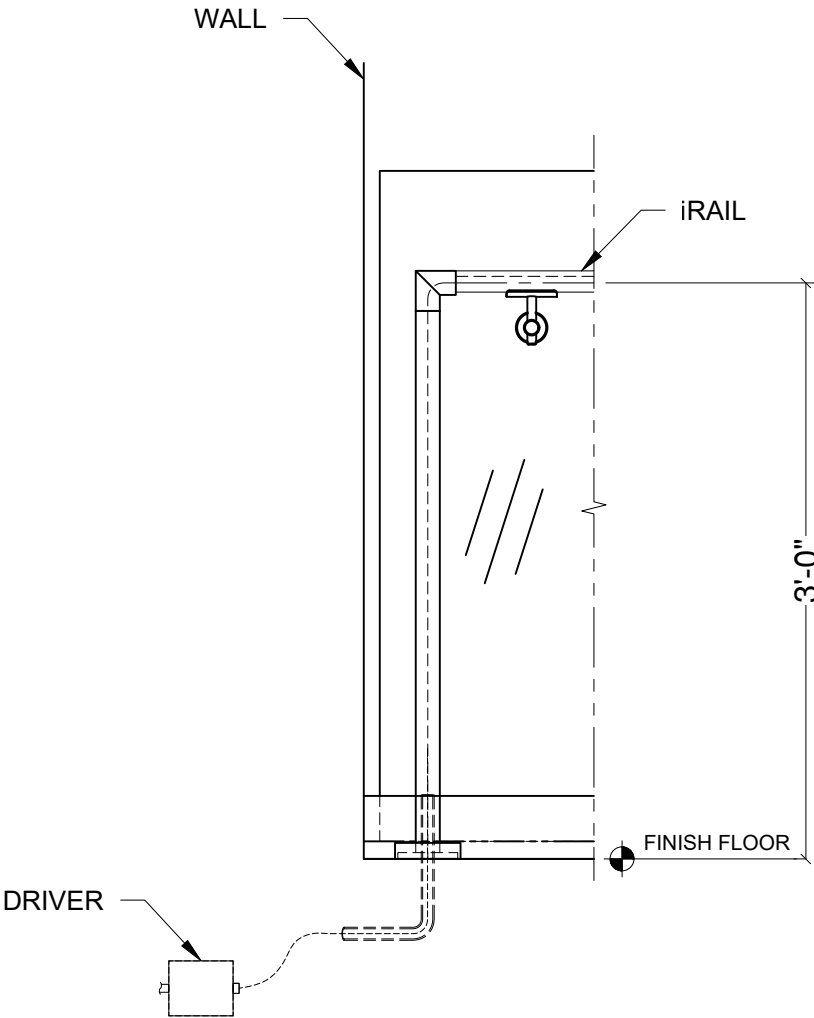
WIRE FEED OPTION



Illuminated Handrail or
Top Rail
Detail# IR-W02



Illuminated FSR
Detail# IR-W03



Illuminated Shoe Handrail
Detail# IR-W04

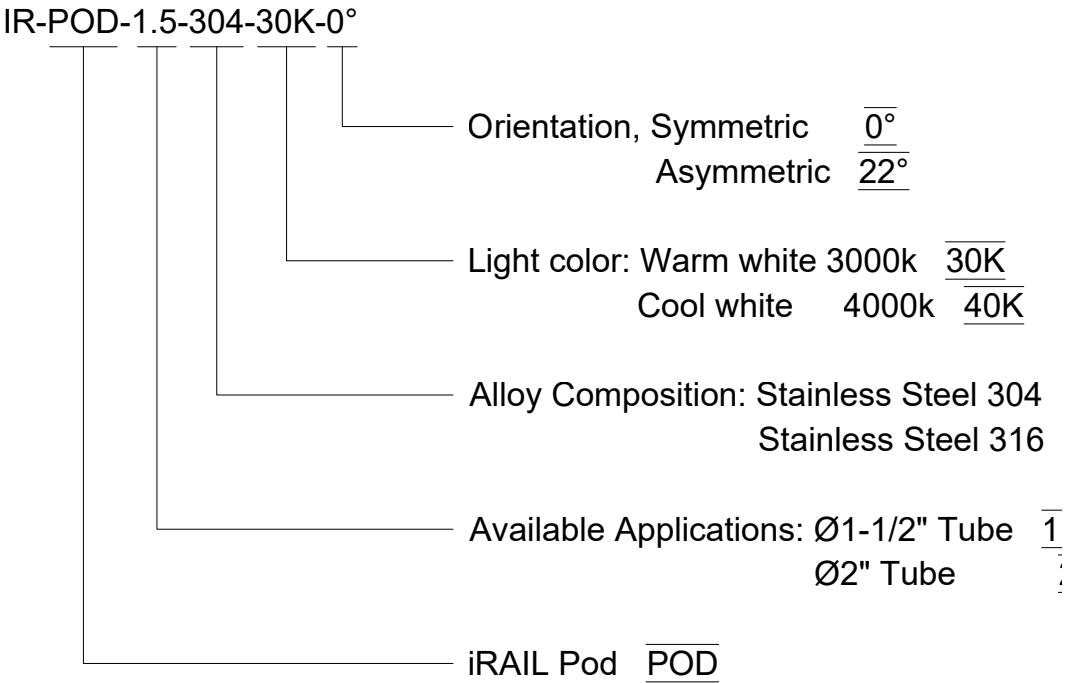
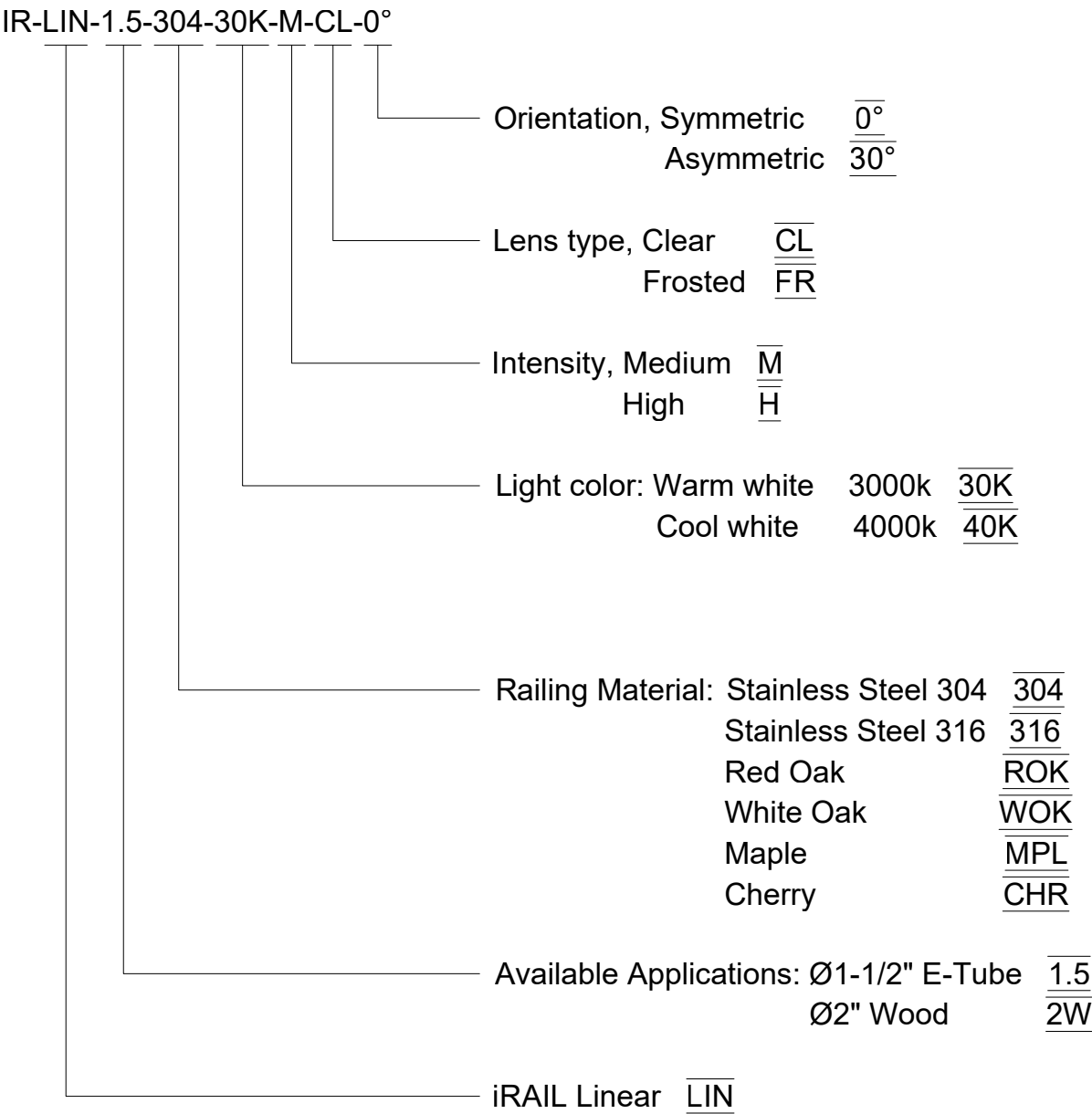
*WALL OR FLOOR WIRE FEED ENTRY REQUIRED AT RAILING TERMINAL POINT
TYP.

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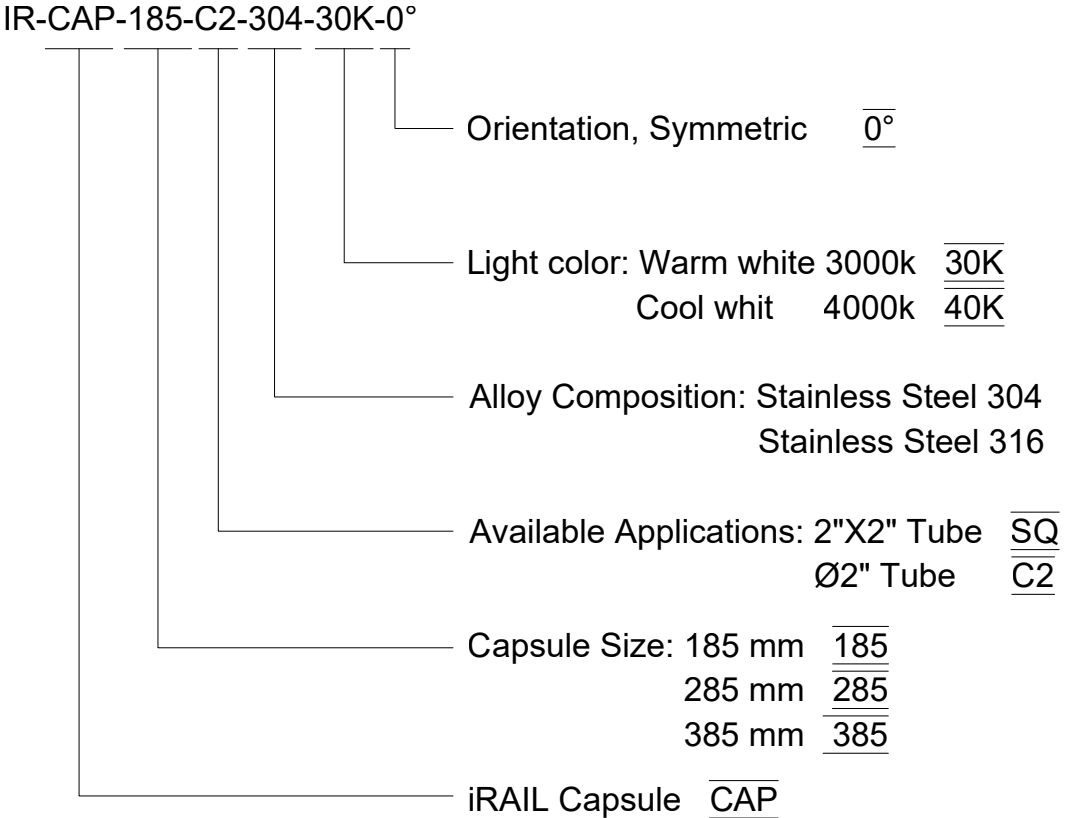


ORDER CODE

iRAIL LINEAR ORDER CODE:



iRAIL CAPSULE ORDER CODE:



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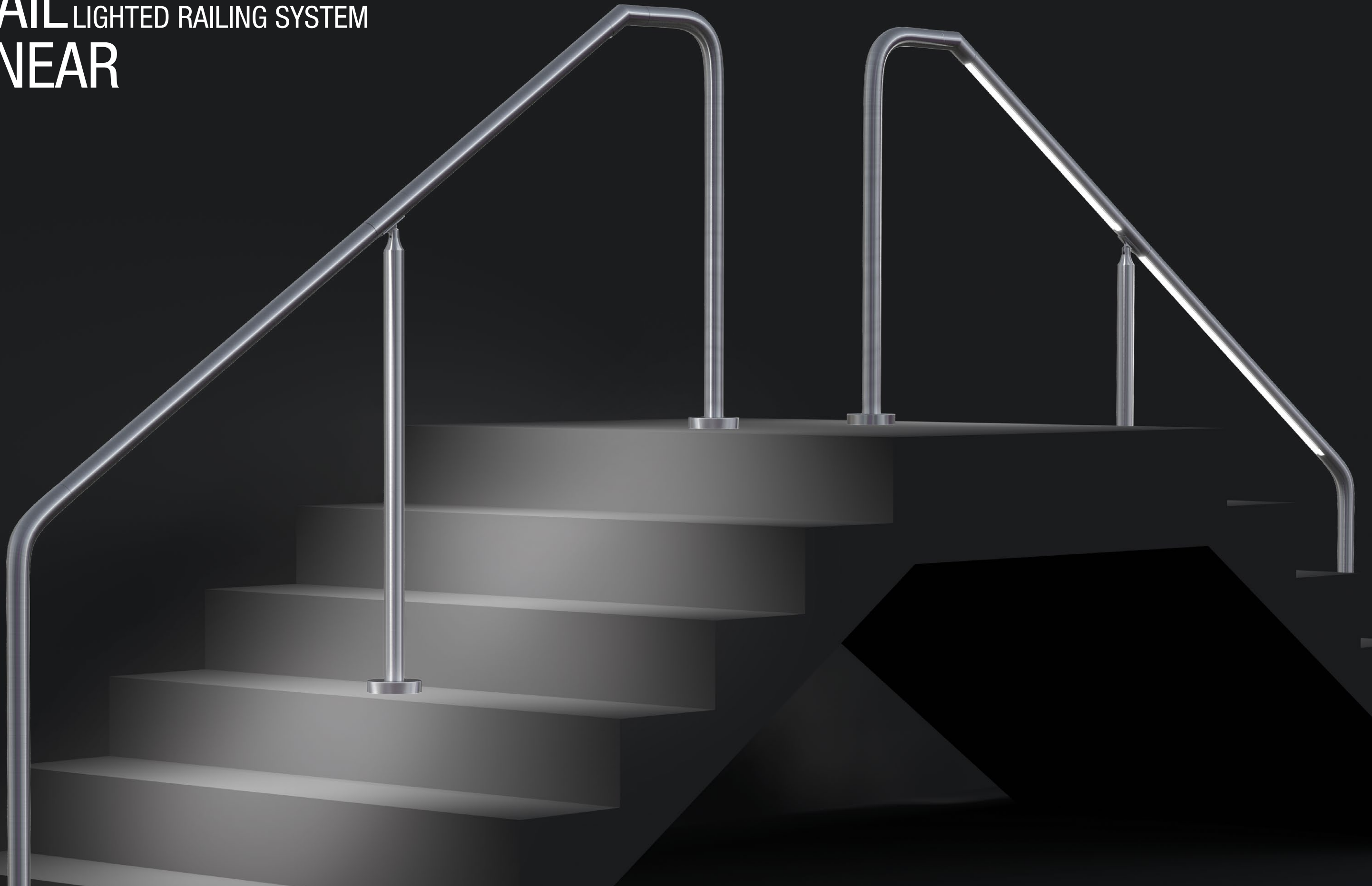


iRAIL LIGHTED RAILING SYSTEM SMU MOODY HALL

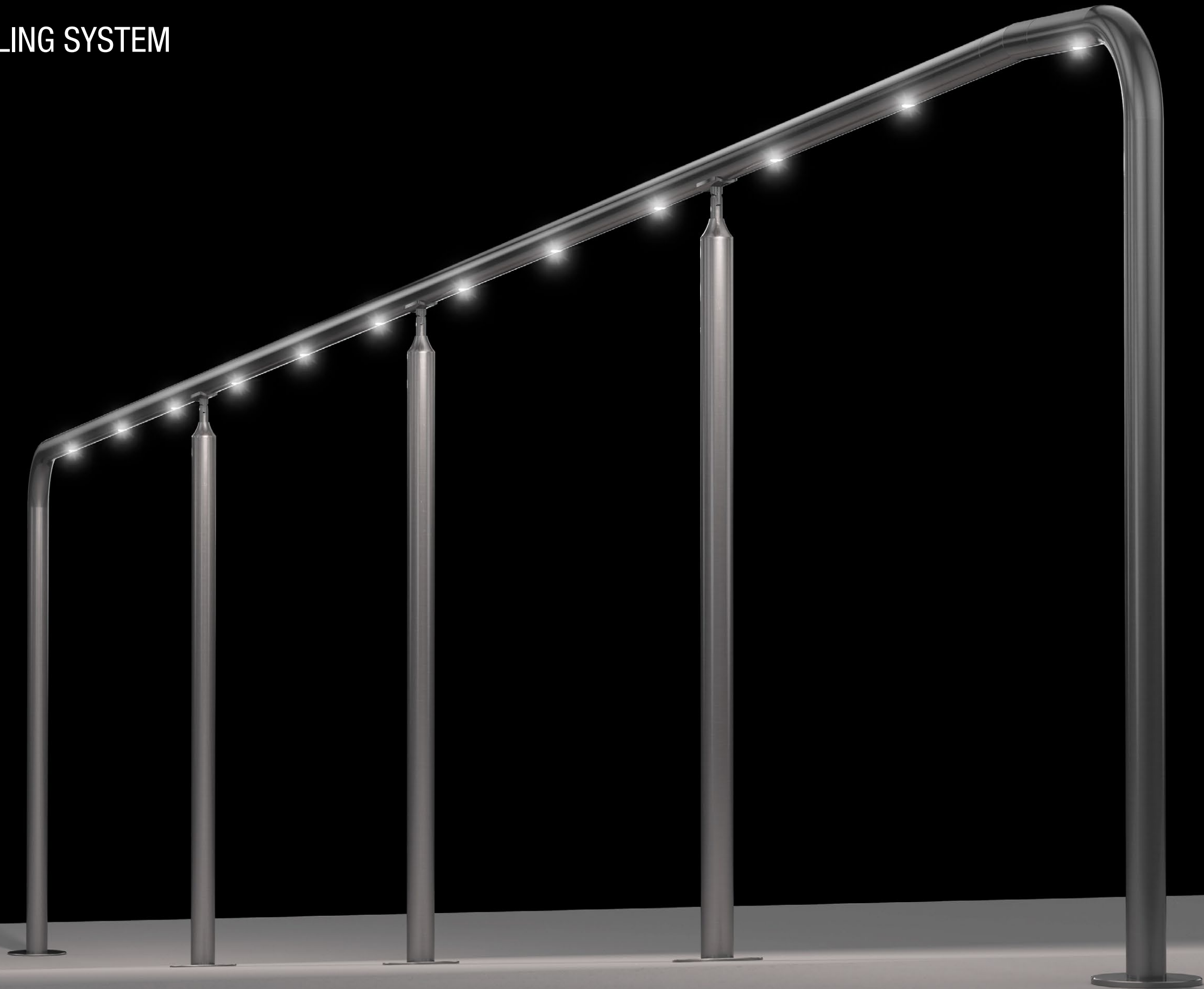


SMU MOODY HALL - DALLAS, TX
General Contractor: The Beck Group
Architect: Smithgroup Inc

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

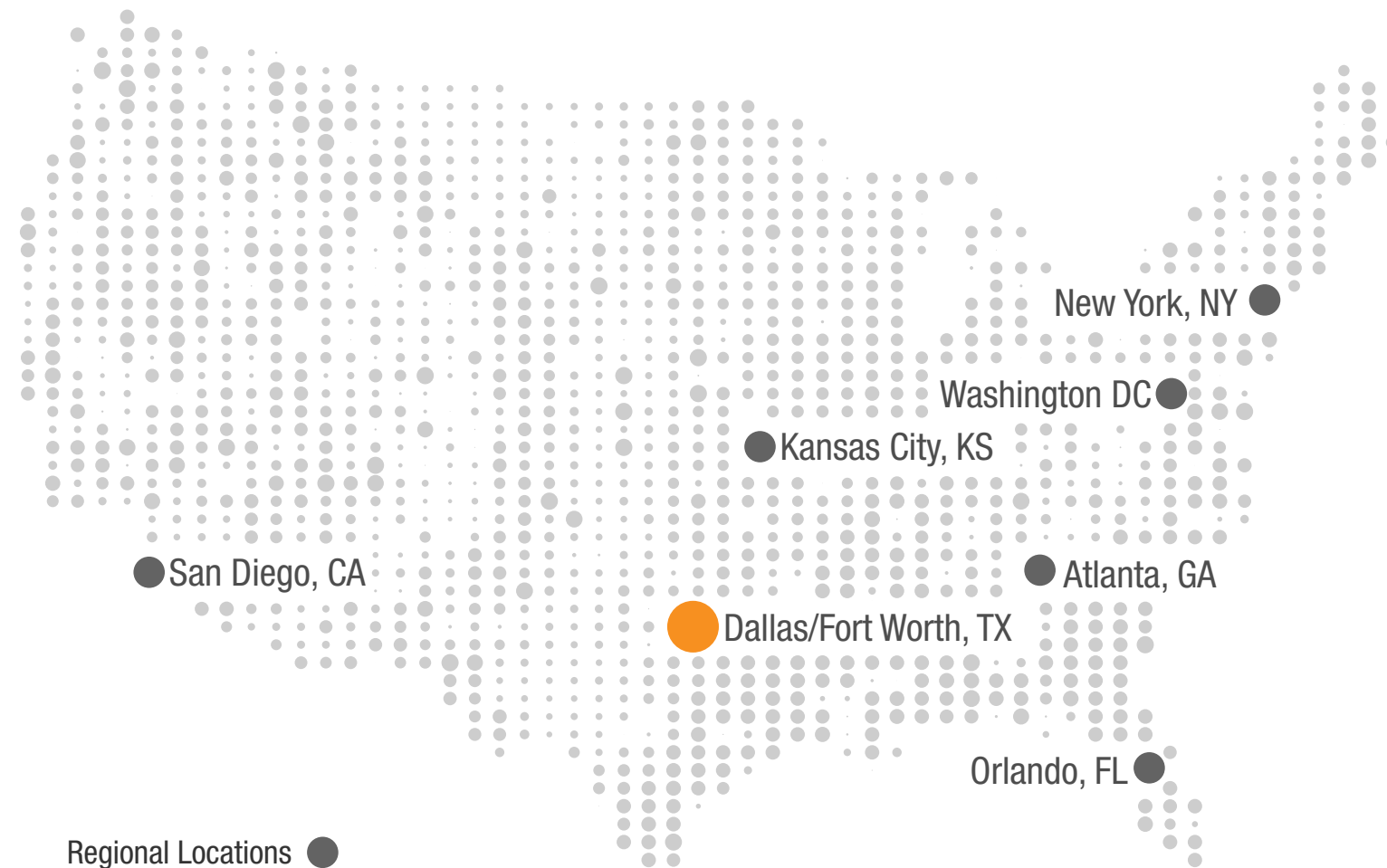


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LEED
Material & Resources Credits 4.1 and 4.2



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WST LED

Architectural Wall Sconce



Catalog
Number

Notes

Type

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

Specifications

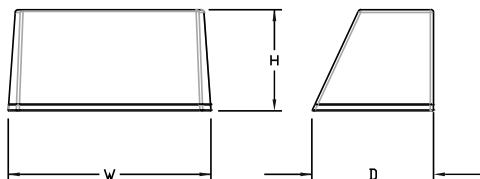
Luminaire

Height: 8-1/2"
(21.59 cm)

Width: 17"
(43.18 cm)

Depth: 10-3/16"
(25.9 cm)

Weight: 20 lbs
(9.1 kg)



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 ¹ 277 ² 120 ² 347 ² 208 ² 480 ² 240 ²	Shipped included (blank) Surface mounting bracket PBBW Premium surface-mounted back box ^{3,4} Shipped separately BBW Surface-mounted back box ³

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

See Accessories and Notes on next page.



COMMERCIAL OUTDOOR

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WST-LED
Rev. 03/27/24

Accessories

Ordered and shipped separately.

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

NOTES

- 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.

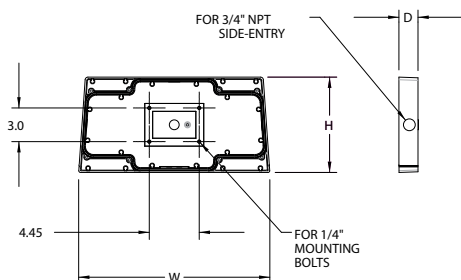
- 9 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- 10 Not available with Emergency options, PE or PER options.
- 11 DMG option not available with standalone or networked sensors/controls.
- 12 Battery pack rated for -20° to 40°C.
- 13 Comes 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)

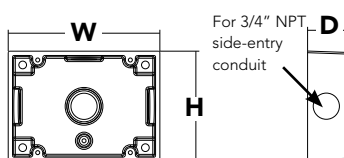


Optional Back Box (BBW)

Height: 4"
(10.2 cm)

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

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



Emergency Battery Operation

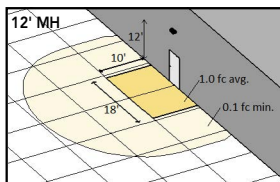
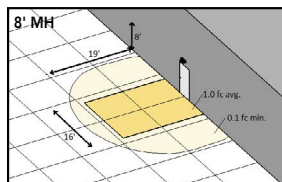
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

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](#)

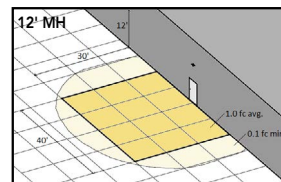
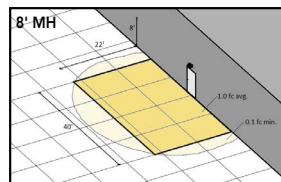
The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per [International Building Code Section 1006](#) and [NFPA 101 Life Safety Code Section 7.9](#), provided luminaires are mounted at an appropriate 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 ¹)	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

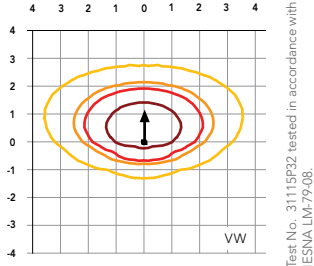
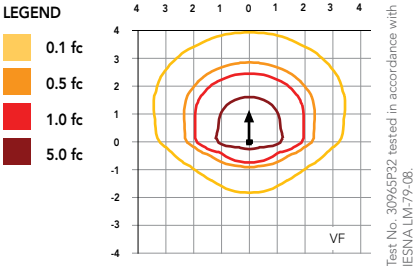


COMMERCIAL OUTDOOR

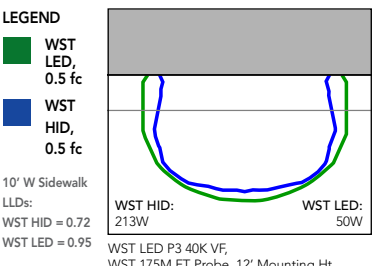
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WST-LED
Rev. 03/27/24

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



Distribution overlay comparison to 175W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

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

CONSTRUCTION

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

FINISH

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

OPTICS

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

ELECTRICAL

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

INSTALLATION

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

LISTINGS

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

GOVERNMENT PROCUREMENT

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

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

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

WARRANTY

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

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