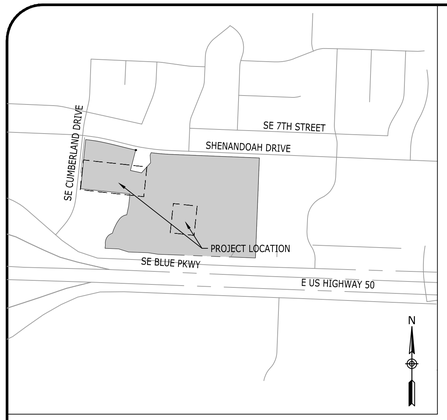
CONSTRUCTION DOCUMENTS

HCA - LEE'S SUMMIT MEDICAL CENTER

LEE'S SUMMIT, JACKSON COUNTY COUNTY, MO

CATALYST PROJECT NO. 20240037
JANUARY 24, 2025



VICINITY MAP
NOT TO SCALE

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 =	159 SPACES REQUIRED
(122,799 SF OF MOB'S / 1,000SF) X 5 =	614 SPACES REQUIRED
26 BEDS X 1.8 SPACES =	47 SPACES REQUIRED
TOTAL REQUIRED:	820 SPACES REQUIRED
EXISTING PARKING:	752 SPACES
PARKING PROVIDED:	
STANDARD PARKING:	795 SPACES
ADA PARKING:	35 SPACES
TOTAL PROVIDED PARKING:	825 SPACES

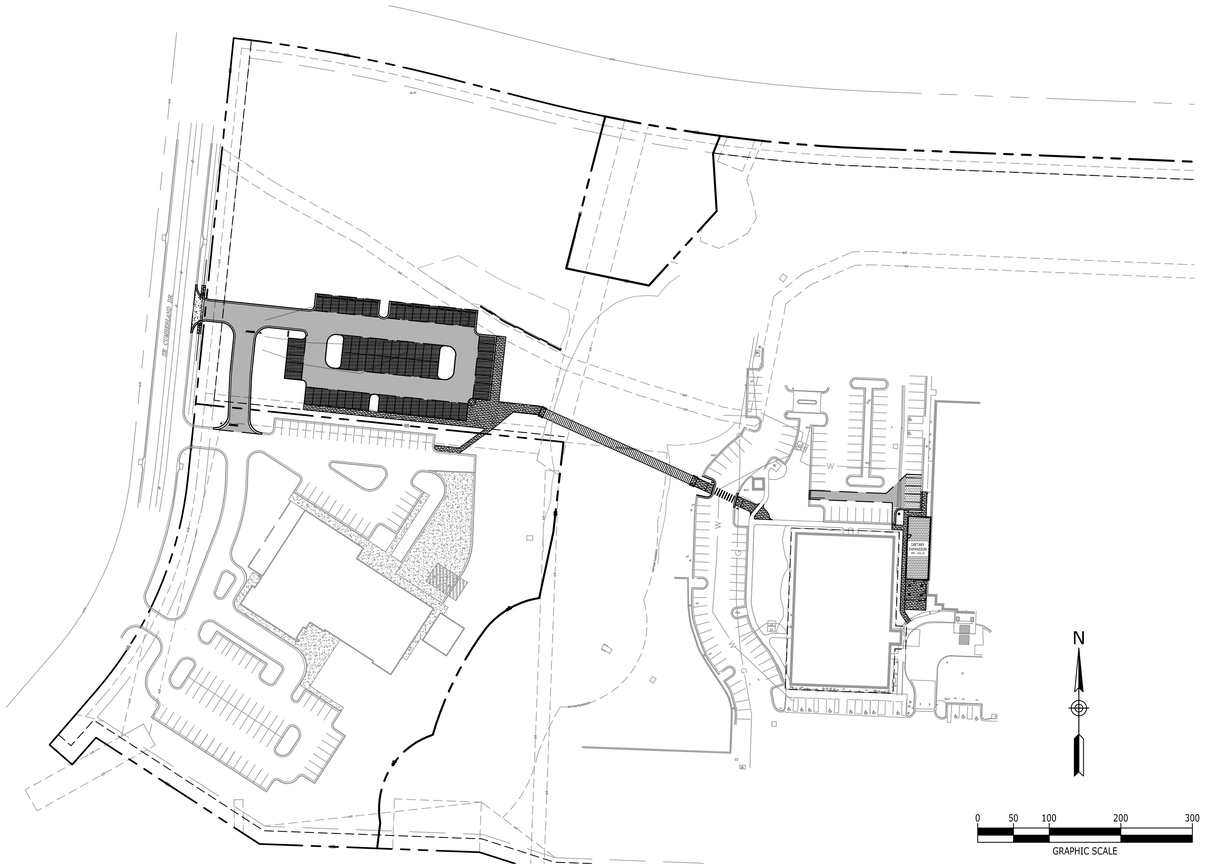
THE 30 EXISTING ADA SPACES EXCEED THE ADA PARKING REQUIREMENT (17 ADA SPACES) WITH THE REMOTE PARKING LOT ADDITION.

OWNER:	MIDWEST DIVISION LSH LLC
ADDRESS:	PO BOX 80610 INDIANAPOLIS, IN 46280
PROJECT REPRESENTATIVE:	CATALYST DESIGN GROUP
ADDRESS:	1524 WILLIAMS DRIVE MURFREESBORO, TN 37129
PHONE NO.:	615-701-6411
CONTACT NAME:	JACK PARKER
CONTACT E-MAIL ADDRESS:	jparker@catalyst-dg.com

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

LEGAL DESCRIPTION:

A TRACT OF LAND IN THE NORTHWEST QUARTER OD SECTION 36, TOWNSHIP 48, RANGE 32 IN THE CITY OD LEE'S SUMMIT, JACKSON COUNTY, MISSOURI MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF THE NORTHWEST QUARTER OF SAID SECTION 36; THENCE NORTH 86 DEGREES 19 MINUTES 41 SECONDS WEST, ALONG THE SOUTH LINE OF SAID NORTHWEST QUARTER OD SAID SECTION 36, 310.15 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF OLD MISSOURI HIGHWAY 50, SAID POINT BEING THE TRUE POINT OF BEGINNING; THENCE CONTINUING ALONG A PROLONGATION OF THE LAST DESCRIBED COURSE, 225.49 FEET TO A PONT 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.



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C3.1	FINAL EROSION CONTROL PLAN
C3.2	SEDIMENT AND EROSION CONTROL DETAILS
C3.3	SEDIMENT AND EROSION CONTROL DETAILS
C4.0	OVERALL DEMOLITION PLAN
C4.1	DETAILED DEMOLITION PLAN
C4.2	DETAILED DEMOLITION PLAN
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C5.1	DETAILED LAYOUT PLAN
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E01-02	SITE PLAN - ELECTRICAL
DP-E07-01	DETAILS - ELECTRICAL
DP-E08-01	SCHEDULES - ELECTRICAL

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

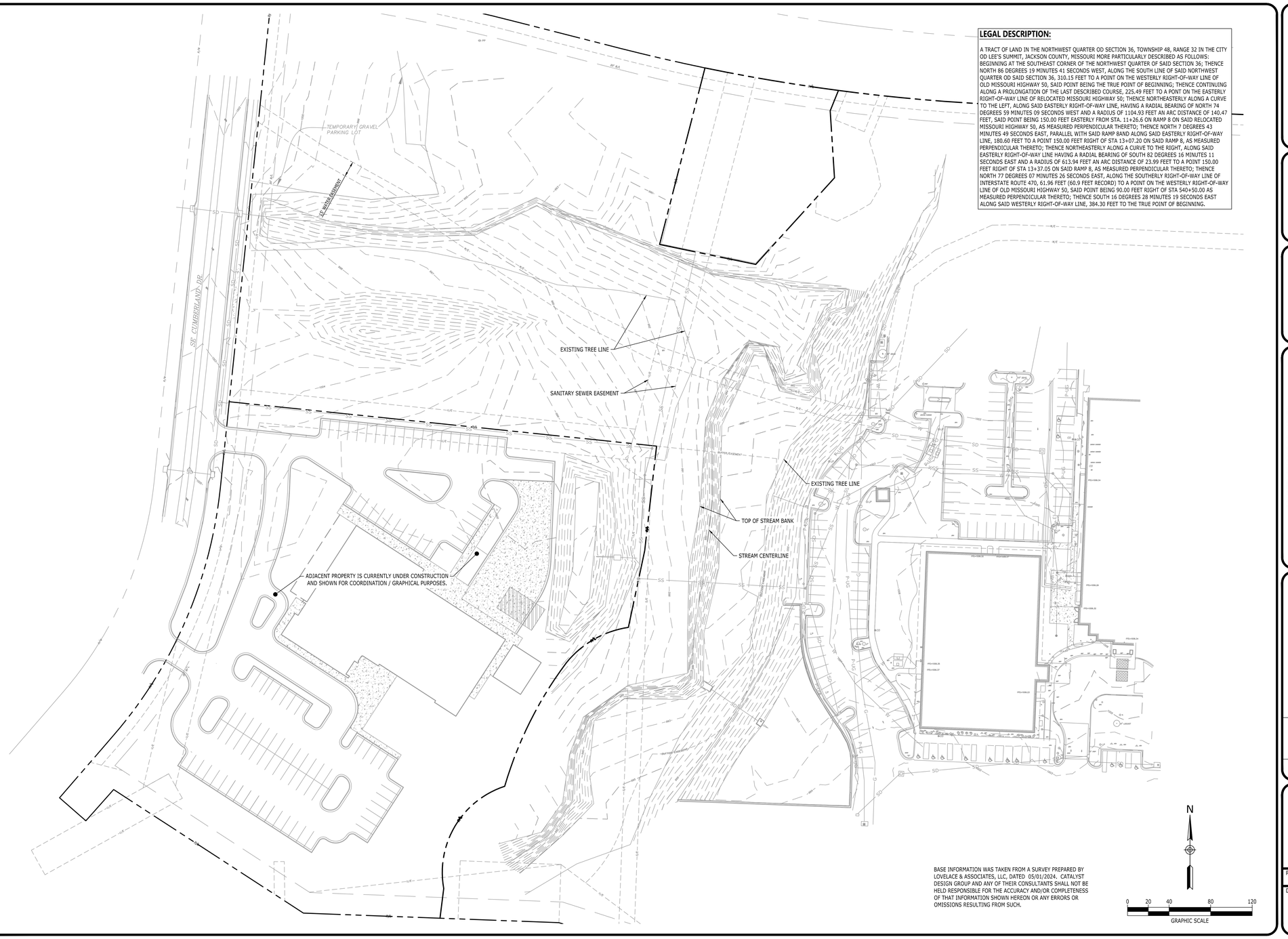
PREPARED FOR
LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
816-282-5000

STATE OF MISSOURI
JACK J. PARKER
NUMBER PE-2007040822
PROFESSIONAL ENGINEER
12/17/24

CIVIL ENGINEER/LANDSCAPE ARCHITECT
Catalyst DESIGN GROUP
1524 WILLIAMS DRIVE SUITE 201
MURFREESBORO, TN 37129
(615) 622-7200

COVER SHEET

C0.0



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 8AND 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.

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 HELD RESPONSIBLE FOR THE ACCURACY AND/OR COMPLETENESS OF THAT INFORMATION SHOWN HEREON OR ANY ERRORS OR OMISSIONS RESULTING FROM SUCH.

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

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

NO.	DATE	DESCRIPTION
1	2025/02/06	DESIGN COORDINATION

DRAWING TITLE
EXISTING CONDITIONS

PROJECT NUMBER
20240037

DRAWING NUMBER
C1.0

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

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

JACK J. PARKER
NUMBER
PE-2010040852
PROFESSIONAL ENGINEER
STATE OF MISSOURI
03/24/2025

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.O. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

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

REVISIONS		
REV #	DESCRIPTION	DATE

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

EXISTING CONDITIONS

C1.0

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6/10/2024 9:05:24 PM Autodesk Docs://6406.24.0001 - HCA - LSMC MedSurg Expansion_rvt23/6406.24.0001 HCA - LSMC Med Surge Expansion.rvt

PROJECT NOTES

1. 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.
2. SITE EXISTING CONDITIONS ARE TAKEN FROM SURVEY BY LOVELACE & ASSOCIATES, LLC DATED 05/01/2024. CATALYST DESIGN GROUP SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF OR OMISSIONS FROM THE EXISTING CONDITIONS OR ERRORS RESULTING THEREFROM.
3. CATALYST DESIGN GROUP RECOMMENDS THAT CONSTRUCTION STAKING BE PROVIDED BY A SURVEYOR LICENSED IN THE STATE OF THE PROJECT.
4. 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.
5. DIMENSIONS PROVIDED ON THE PLAN ARE TAKEN TO THE FACE OF CURBS, EDGE OF CONCRETE OR EDGE OF BUILDING, UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS PRIOR TO INITIATING CONSTRUCTION. THE CONTRACTOR SHALL ADHERE TO PERMIT REQUIREMENTS AS WORK PROCEEDS.
9. SITE CONTROL SHALL BE BASED OFF THE REFERENCE POINTS PROVIDED. SEE THE ARCHITECTURAL PLANS FOR LAYOUT CONTROL OF BUILDING ADDITIONS.
10. 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.
11. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO PUBLIC ROADWAYS, CURBS AND SIDEWALKS IN ACCORDANCE WITH THE LOCAL REQUIREMENTS AT CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY WORK UNACCEPTABLE TO THE OWNER'S REPRESENTATIVE OR GOVERNING AGENCIES AT CONTRACTOR'S EXPENSE.
13. 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.
14. ON SITE ASPHALT PAVEMENT MATERIALS SHALL BE PER LOCAL AUTHORITY SPECIFICATIONS, STATE SPECIFICATIONS, AND GEOTECHNICAL REPORT RECOMMENDATIONS.
15. THE CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS AND PRECAUTIONS.
16. 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.
17. 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.
18. ALL SPECIFICATIONS, DOCUMENTS, AND DETAILS REFERENCED SHALL BE THE LATEST REVISION AS APPLICABLE AT THE TIME OF PERMIT APPROVAL.
19. CONTRACTOR SHALL REPAIR ALL OFF-SITE CONSTRUCTION AREAS TO EQUAL AND/OR BETTER CONDITION THAN AT THE START OF CONSTRUCTION.

DEMOLITION NOTES

1. 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.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO ACCOMPLISH THE PROPOSED WORK.
3. THE CONTRACTOR SHALL PROTECT PROPERTY BOUNDARY PINS AND SURVEY CONTROL POINTS FROM DAMAGE.
4. THE CONTRACTOR SHALL COMPLY WITH EROSION PREVENTION AND SEDIMENT CONTROL REQUIREMENTS AND INSTALL NECESSARY EPSC 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.
5. TREE PROTECTION MEASURES SPECIFIED IN THESE PLANS SHALL BE INSTALLED PRIOR TO BEGINNING DEMOLITION OPERATIONS.
6. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR DEMOLITION AND TREE REMOVAL.
7. 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.
8. UTILITY AND STORM SEWER LINES SHOULD NOT BE DEMOLISHED UNTIL NEW OR RELOCATED LINES HAVE BEEN INSTALLED AND ARE OPERATIONAL.
9. THE CONTRACTOR SHALL INCLUDE IN THEIR COST ANY ISOLATION VALVES OR TEMPORARY MEASURES REQUIRED TO ACCOMPLISH RELOCATIONS AND DEMOLITION OF UTILITIES.
10. 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.
11. EXISTING SITE FEATURES NOTED AS BEING ABANDONED MAY BE ABANDONED INPLACE IF THE ITEMS ARE LOCATED MORE THAN 24" BELOW FINAL SUBGRADES (TO TOP OF PIPE OR OTHER FEATURE) AND NOT LOCATED WITHIN PROPOSED BUILDING FOOTPRINTS. ENDS OF PIPES ABANDONED SHALL BE SEALED WITH CONCRETE.
12. ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S COST UNLESS NOTED TO BE PROVIDED TO THE OWNER.
13. CAVITIES LEFT BY DEMOLITION SHALL BE PROPERLY BACKFILLED AND COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
14. 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.
15. 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.
16. 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

1. 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.
2. 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.
3. BEFORE PLACING PAVEMENT OR SIDEWALKS, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM ACCESSIBLE DOORS, ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. MAXIMUM GRADES WITHIN ACCESSIBLE PARKING AND ACCESS AISLES SHALL BE 2% IN ANY DIRECTION. WITHIN ACCESSIBLE PATHS MAXIMUM SLOPES FOR SIDEWALKS SHALL BE LONGITUDINALLY MAXIMUM 5%, FOR RAMPS SHALL BE LONGITUDINALLY MAXIMUM 8.33% (1:12), AND CROSS SLOPES SHALL BE MAXIMUM 2%. TURNING MOVEMENTS SHALL BE 5'X5' MAXIMUM 2% IN ANY DIRECTION.
4. 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.
5. 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 PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CHANGE ORDERS WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.
6. 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

1. 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.
2. THE CONTRACTOR SHALL STAKE THE LIMITS OF CONSTRUCTION TO ENSURE THE TREE PROTECTION MEASURES ARE INSTALLED IN THE PROPER LOCATIONS.
3. 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.
4. ANY GRADING OR EXCAVATION WITHIN THE PROTECTED ROOT ZONE SHALL BE ACCOMPLISHED BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE DAMAGE.
5. 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.
6. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN THE DRIP LINE OF TREES TO BE PRESERVED.
7. WHEN GRADING OR TRENCHING 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.
8. 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.
9. PROVIDE WATERING OF SPECIMEN TREES DURING CONSTRUCTION DURING PERIODS OF DROUGHT EXCEEDING SEVEN DAYS. EVENLY DISTRIBUTE WATER OVER THE ENTIRE ROOT ZONE.
10. ROOT ZONE AREAS OF TREES THAT HAVE BEEN COMPACTED DUE TO CONSTRUCTION ACTIVITIES SHALL BE AERATED AT THE DIRECTION OF A QUALIFIED ARBORIST.
11. HOSE DOWN FOLIAGE OF SPECIMEN TREES SUBJECT TO HEAVY ACCUMULATION OF DUST FROM CONSTRUCTION ACTIVITIES.
12. 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.
13. REMOVAL OF TREE PROTECTION FENCING SHALL NOT OCCUR UNTIL APPROVED BY THE GOVERNING AUTHORITY WHERE REQUIRED, OR THE OWNER'S REPRESENTATIVE. ALL REMNANTS OF THE FENCING SHALL BE REMOVED AND RESTORATION OF THE AREAS SHALL BE COMPLETED.

EROSION CONTROL NOTES

1. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES SHALL BE INSTALLED PER LOCAL AND STATE REQUIREMENTS PRIOR TO ANY EARTH MOVING ACTIVITIES.
2. 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.
3. EPSC MEASURES SHALL BE INSTALLED AND INSPECTED BY LOCAL OFFICIALS (IF REQUIRED) PRIOR TO BEGINNING EARTH MOVING OPERATIONS. EPSC MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
4. LOCATION OF DIVERSION DITCHES, SILT FENCE, AND OTHER MEASURES MAY BE SLIGHTLY ADJUSTED IN THE FIELD TO AVOID TREES AND OTHER EXISTING FEATURES.
5. 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 EPSC 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.
6. AS THE WORK PROGRESSES THE LOCATION AND TYPE OF MEASURES MAY REQUIRE ADJUSTMENTS. TEMPORARY MEASURES MAY BE REQUIRED IN CERTAIN AREAS THAT CAN BE REMOVED DURING THE WORK DAY AND RE-ESTABLISHED WHEN WORK CEASES FOR THE DAY OR PRIOR TO A DAYTIME RAIN EVENT.
7. 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.
8. THE CONTRACTOR SHALL PROVIDE A RAIN GAUGE AT THE SITE AND DOCUMENT RAINFALL EVENTS DURING THE CONSTRUCTION PERIOD.
9. 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.
10. 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.
11. THE CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE LENGTH OF TIME THE SITE SOILS ARE EXPOSED TO EROSION. PROVIDE TEMPORARY COVER AS NECESSARY.
12. EPSC 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

1. 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.
2. AS-BUILT SURVEYS SHOULD AT A MINIMUM PROVIDE THE FOLLOWING ITEMS:
   - 2.1. SPOT ELEVATIONS OF THE EXCAVATED BIORETENTION AND/OR PERMEABLE PAVER SUBGRADE PRIOR TO BACKFILLING WITH THE SPECIALTY SOIL AND GRAVEL LAYERS.
   - 2.2. SPOT ELEVATIONS OF SUBGRADE FOR UNDERGROUND DETENTION SYSTEMS.
   - 2.3. 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.
   - 2.4. SIZE, MATERIAL, ELEVATION INFORMATION FOR ALL STORMWATER PIPES AND STRUCTURES WITHIN THE PUBLIC RIGHT OF WAY.
   - 2.5. SIZE, MATERIAL, ELEVATION INFORMATION FOR ALL PRIVATE STORMWATER QUALITY FEATURES, DETENTION STRUCTURES AND INFRASTRUCTURE DOWNSTREAM OF THESE FEATURES.
   - 2.6. 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.
   - 2.7. ALL OTHER AS-BUILT INFORMATION REQUIRED BY THE JURISDICTIONAL AUTHORITY OR NOTED ELSEWHERE IN THE PLANS.
3. 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.
4. 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

1. THE DISTURBED AREA FOR THIS PROJECT IS ESTIMATED TO BE ±2.15 ACRES.
2. THE SUBJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO COMMUNITY PANEL NO. 29095C0439G OF THE FEMA FLOOD INSURANCE MAPS FOR JACKSON COUNTY COUNTY, MO, DATED 01/20/2017.
3. FOLLOW THE DIRECTIVES OF THE EROSION CONTROL AND TREE PROTECTION NOTES INCLUDED ELSEWHERE IN THESE DOCUMENTS.
4. 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.
5. 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.
6. THE CONTRACTOR SHALL CONFIRM EXISTING GRADES AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION AND CONTACT THE ENGINEER WITH ANY DISCREPANCIES.
7. THE CONTRACTOR SHALL OBTAIN ALL APPROVALS AND PERMITS PRIOR TO INITIATING GRADING OPERATIONS.
8. POSITIVE DRAINAGE SHALL BE ESTABLISHED INITIALLY AND MAINTAINED THROUGHOUT CONSTRUCTION.
9. 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.
10. 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.
11. CONTRACTOR WILL PROCURE THE SERVICES OF A QUALIFIED SOILS TESTING LABORATORY/ ENGINEER TO OBSERVE WORK AND MAKE TESTS AS REQUIRED.
12. CONTRACTOR SHOULD COMPLETE GRADING ACTIVITIES WITHIN 10 CALENDAR DAYS OF ACHIEVING OPTIMUM SUBGRADE COMPACTION.
13. 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.
14. 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.
15. 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.
16. APPLICABLE SPECIFICATIONS FOR COMPACTED FILL: THE FOLLOWING CURRENT AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) STANDARDS ARE HEREBY MADE PART OF THIS SPECIFICATION:
   - 16.1. C136/136M STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES
   - 16.2. D421-58 DRY PREPARATION OF SOIL SAMPLES FOR GRAIN-SIZE ANALYSIS AND DETERMINATION OF SOIL CONSTANTS.
   - 16.3. D422-63 STANDARD METHOD OF PARTICLE SIZE ANALYSIS OF SOILS.
   - 16.4. D1150-54 METHOD OF TEST FOR AMOUNT OF MATERIAL IN SOILS FINER THAN NO. 200 SIEVE.
   - 16.5. D698 METHOD FOR LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING STANDARD EFFORT
   - 16.6. D1557-78 STANDARD TEST METHODS FOR MOISTURE-DENSITY RELATIONS OF SOILS AND SOIL AGGREGATE MIXTURES USING 10LB. (4.54-KG) RAMMER AND 18-INCH (457 MM) DROP.
   - 16.7. D2487 STANDARD PRACTICE FOR CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES
   - 16.8. D4318 STANDARD TEST METHODS FOR LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
   - 16.9. 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.
17. 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.
18. 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.
   - 18.1. WHERE BUILDINGS (EXISTING OR PROPOSED) OR OTHER SITE ELEMENTS CLOSELY ABUT 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.
   - 18.2. 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.
19. MAXIMUM CUT AND FILL SLOPES SHALL BE 3 HORIZONTAL TO 1 VERTICAL UNLESS DIRECTLY NOTED OTHERWISE ON THE PLAN. FILL SLOPES SHALL BE CONSTRUCTED BY FILLING BEYOND THE DESIRED GRADES TO OBTAIN COMPACTION AND THEN CUT BACK TO THE DESIRED GRADES. WHERE GRADES ARE 3:1 AND STEEPER CONTRACTOR TO PROVIDE SLOPE STABILIZATION UTILIZING NORTH AMERICAN GREEN, SC-250 OR APPROVED EQUAL. IN AREAS THAT ARE NOTED TO REQUIRE STABILIZATION WHERE SLOPES ARE LESS THAN 3:1 CONTRACTOR TO USE NORTH AMERICAN GREEN SC-150 OR APPROVED EQUAL.
20. MINIMUM GRADES SHALL BE 1% IN PAVEMENT AREAS, AND A MINIMUM OF 2% IN LAWN AREAS UNLESS DIRECTLY SPECIFIED IN THE PLANS.
21. 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



EROSION CONTROL KEYNOTES		
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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.

1. APPROXIMATE CONSTRUCTION TIME TABLE:
   BEGIN CONSTRUCTION - FEB 2025
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2. CONSTRUCTION SEQUENCE:
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   D. CLEAR AND GRUB THE REMAINING SITE.
   E. CONSTRUCT REMAINING SITE ACCORDING TO APPROVED PLANS, INCLUDING ALL ADDITIONAL EROSION CONTROL DEVICES.
   F. UPON PERMANENT SITE STABILIZATION SEED AND STRAW.
   G. REMOVE ALL OTHER EROSION TEMPORARY CONTROL DEVICES PRIOR TO AS-BUILT APPROVALS.
3. TOTAL PROJECT AREA = 1,066,349 SF (24.48± AC.)
   DISTURBED AREA = 93,929 S.F. (2.15± AC.)

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2. THE FOLLOWING RECORDS SHALL BE MAINTAINED ON OR NEAR SITE: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; THE DATES WHEN STABILIZATION MEASURES ARE INITIATED; INSPECTION RECORDS AND RAINFALL RECORDS.
3. THE CONTRACTOR SHALL MAINTAIN A RAIN GAUGE AND DAILY RAINFALL RECORDS AT THE SITE OR USE A REFERENCE SITE FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION.
4. PRE-CONSTRUCTION VEGETATIVE 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.
5. CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
6. SEDIMENT SHOULD BE REMOVED FROM SEDIMENT TRAPS, SILT FENCES, SEDIMENTATION PONDS AND OTHER SEDIMENT CONTROLS AS NECESSARY AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50% OR AS DIRECTED BY OWNERS REPRESENTATIVE.
7. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
8. THE CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES ONLY AFTER A SOLID STAND OF GRASS HAS BEEN ESTABLISHED ON GRADED AREAS AND WHEN IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEY ARE NO LONGER NEEDED.
9. DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF THE COMPLETION OF GRADING ACTIVITIES. SLOPES 3:1 OR STEEPER SHALL BE STABILIZED WITHIN 7 DAYS.

N

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GRAPHIC SCALE

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

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

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION	2025/02/06

DRAWING TITLE
INITIAL EROSION CONTROL PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C3.0

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(615) 622-7200 | WWW.CATALYST-DG.COM

STATE OF MISSOURI
JACK J. PARKER
NUMBER PE-2010040852
PROFESSIONAL ENGINEER
04/24/2025

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.O. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

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

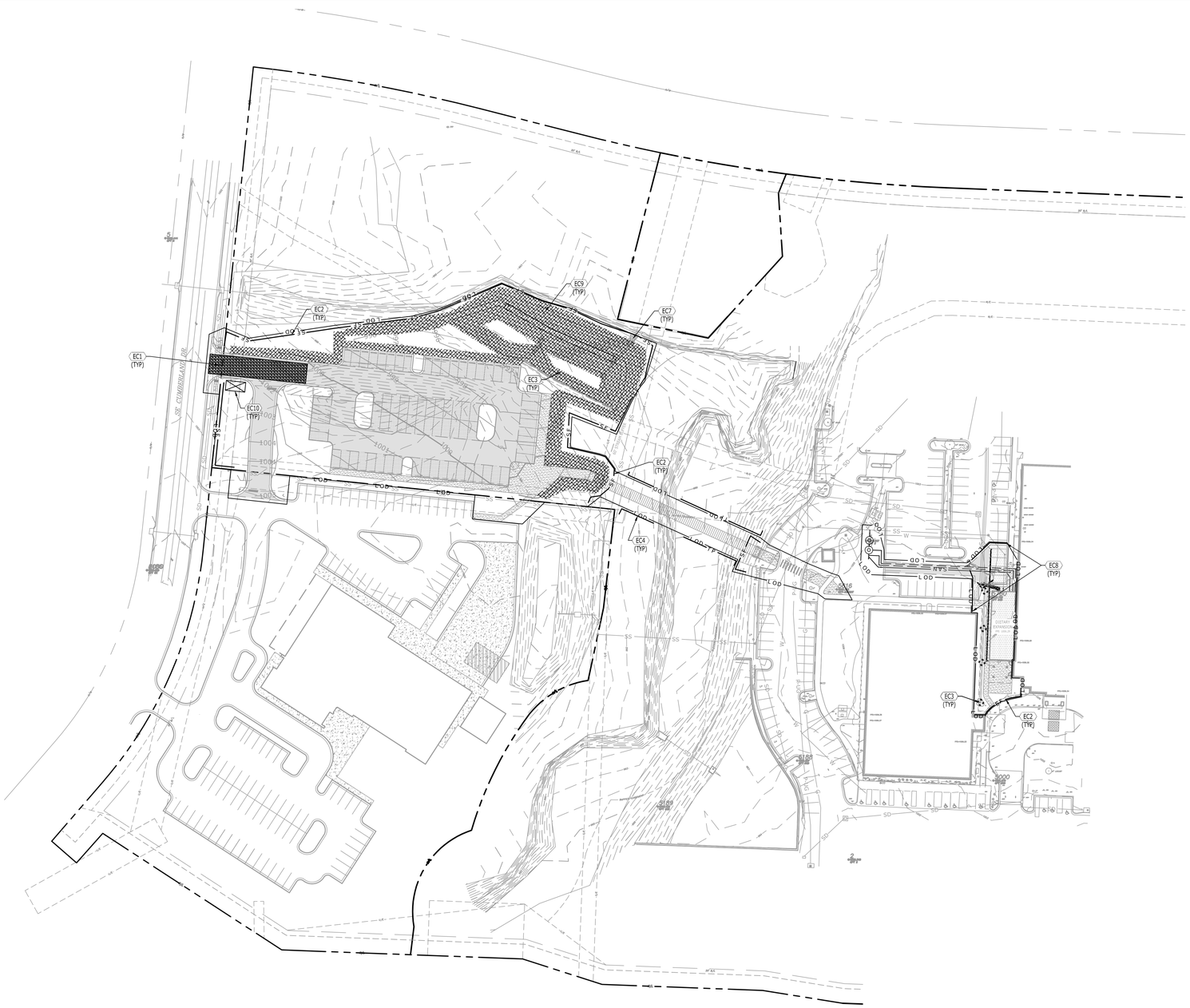
REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	2024/12/05
SCALE:	1:50
DRAWN:	AP
REVIEWED:	WB
JOB NUMBER:	6406.24

INITIAL EROSION CONTROL PLAN

C3.0

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2. THE FOLLOWING RECORDS SHALL BE MAINTAINED ON OR NEAR SITE: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; THE DATES WHEN STABILIZATION MEASURES ARE INITIATED; INSPECTION RECORDS AND RAINFALL RECORDS.
3. THE CONTRACTOR SHALL MAINTAIN A RAIN GAUGE AND DAILY RAINFALL RECORDS AT THE SITE OR USE A REFERENCE SITE FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION.
4. PRE-CONSTRUCTION VEGETATIVE 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.
5. CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
6. SEDIMENT SHOULD BE REMOVED FROM SEDIMENT TRAPS, SILT FENCES, SEDIMENTATION PONDS AND OTHER SEDIMENT CONTROLS AS NECESSARY AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50% OR AS DIRECTED BY OWNERS REPRESENTATIVE.
7. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
8. THE CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES ONLY AFTER A SOLID STAND OF GRASS HAS BEEN ESTABLISHED ON GRADED AREAS AND WHEN IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEY ARE NO LONGER NEEDED.
9. DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF THE COMPLETION OF GRADING ACTIVITIES. SLOPES 3:1 OR STEEPER SHALL BE STABILIZED WITHIN 7 DAYS.

N

0 25 50 100 150
GRAPHIC SCALE

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

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

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION	2025/02/06

DRAWING TITLE
FINAL EROSION CONTROL PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C3.1

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JACK J. PARKER NUMBER PE-2010040852 PROFESSIONAL ENGINEER STATE OF MISSOURI
04/24/2025

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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

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	2024/12/05
SCALE:	1:50
DRAWN:	AP
REVIEWED:	WB
JOB NUMBER:	6406.24

FINAL EROSION CONTROL PLAN

C3.1

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SCHEDULE OF INSPECTIONS AND MAINTENANCE NOTES

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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

1. 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.
2. 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.
3. AS A MINIMUM, SITE ASSESSMENT SHOULD BE PERFORMED TO VERIFY THE INSTALLATION, FUNCTIONALITY AND PERFORMANCE OF THE EPSC MEASURES DESCRIBED IN THE SWPPP REPORT. THE SITE ASSESSMENT SHOULD BE PERFORMED WITH THE INSPECTOR, AND SHOULD INCLUDE A REVIEW AND UPDATE (IF APPLICABLE) OF THE SWPPP REPORT. MODIFICATIONS OF PLANS AND SPECIFICATIONS FOR ANY BUILDING OR STRUCTURE, INCLUDING THE DESIGN OF SEDIMENT BASINS OR OTHER SEDIMENT CONTROLS INVOLVING STRUCTURAL, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT AND STAMPED AND CERTIFIED IN ACCORDANCE WITH THE TENNESSEE CODE ANNOTATED, TITLE 62, CHAPTER 2 AND THE RULES OF THE TENNESSEE BOARD OF ARCHITECTURAL AND ENGINEERING EXAMINERS.
4. 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:

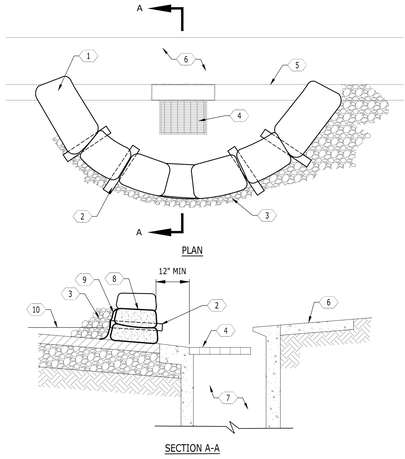
   "I CERTIFY UNDER PENALTY OF LAW THAT THIS REPORT AND ALL ATTACHMENTS ARE, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."
5. THE SITE ASSESSMENT CAN TAKE THE PLACE OF ONE OF THE TWICE WEEKLY INSPECTIONS REQUIREMENT.
6. 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:

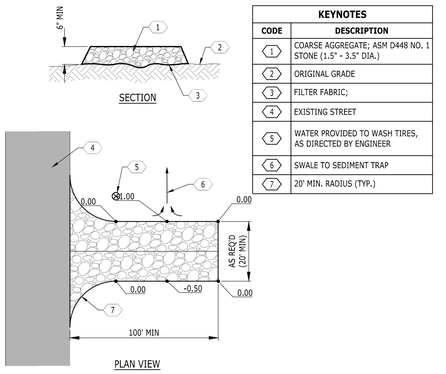
CONTRACTOR SHALL INSTALL A 4'X4' WEATHER PROOF SIGN (6' HEIGHT) AT THE MAIN CONSTRUCTION ENTRANCE. THE SIGN SHALL HAVE THE FOLLOWING INFORMATION:

1. A COPY OF THE NOTICE OF COVERAGE WITH THE NPDES PERMIT NUMBER (FURNISHED BY ENGINEER).
2. THE NAME AND TELEPHONE NUMBER OF A LOCAL CONTACT PERSON (FURNISHED BY CONSTRUCTION MANAGER).
3. 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 (¾" 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	SPILWAY
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.



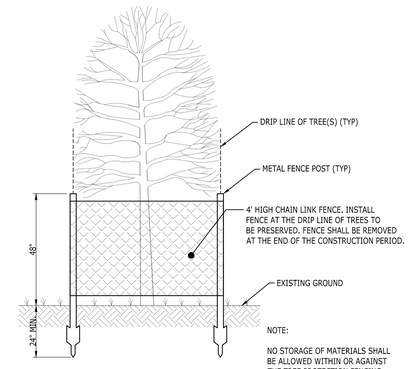
4 **SAND BAG CURB INLET PROTECTION**



KEYNOTES	
CODE	DESCRIPTION
1	COARSE AGGREGATE; ASM D448 NO. 1 STONE (1.5" - 3.5" DIA.)
2	ORIGINAL GRADE
3	FILTER FABRIC;
4	EXISTING STREET
5	WATER PROVIDED TO WASH TIRES, AS DIRECTED BY ENGINEER
6	SWALE TO SEDIMENT TRAP
7	20' MIN. RADIUS (TYP.)

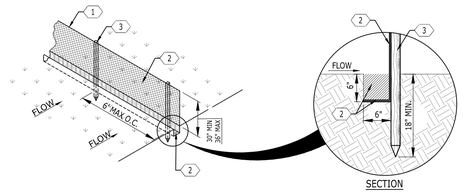
1 **TEMPORARY CONSTRUCTION ENTRANCE**

NOT TO SCALE

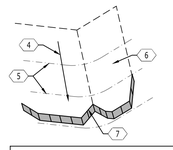


2 **TREE PROTECTION**

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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



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
Ultraciolet Stability (2) (ASTM D-4632 after 300 hours weathering in accordance with ASTM D-4355)	80	80
Bursting Strength (PSI Min.) (ASTM D-3786 Diaphram Bursting Strength Tester)	175	175
Minimum Fabric Width (Inches)	36	22

3 **SILT FENCE - TYPES A & B**

NOT TO SCALE

Devenney GROUP

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JACK T. PARKER NUMBER PE-2010040852 PROFESSIONAL ENGINEER STATE OF MISSOURI
04/24/2025

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INPATIENT BED EXPANSION

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

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

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

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

SEDIMENT AND EROSION CONTROL DETAILS

C3.2

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

LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PARKWAY
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NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION	2025/02/06

DRAWING TITLE
SEDIMENT AND EROSION CONTROL DETAILS

PROJECT NUMBER
20240037

DRAWING NUMBER
C3.2

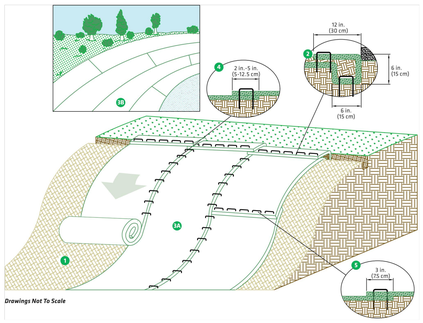
P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\20240037_ERO.dwg-C3.2 SEDIMENT AND EROSION CONTROL DETAILS Jan 24, 2025 wbbsard

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Slope Installation

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



Drawings Not To Scale

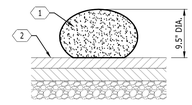
SLOPE INSTALLATION STEPS

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

****NOTE:** In adverse soil conditions longer staples/stakes or earth anchors may be necessary to properly secure the RECPs.*

4 TURF REINFORCEMENT MATTING

NOT TO SCALE



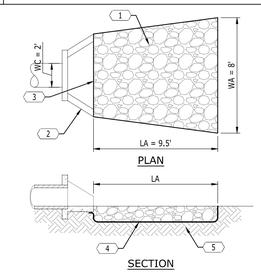
SECTION

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

1 TEMPORARY SILTATION EEL

NOT TO SCALE

KEYNOTES	
CODE	**DESCRIPTION**
1	RIP-RAP (D50 = 9") TO BE HAND-PLACED NATIVE LIMESTONE PLACED TO A MIN. DEPTH OF 1.5'.
2	CONCRETE HEADWALL
3	MATCH HEADWALL APRON WIDTH
4	FILTER FABRIC; MIRAFI 180N/BP 4553 OR AN APPROVED EQUIVALENT
	NOTE: 1. RIP-RAP STONE SHALL BE 'FRACTURED FACED' WITH AT LEAST THREE DISTINCT SIDES. PROVIDE AND INSTALL IN ACCORDANCE WITH SECTION 2600 OF THE CURRENT EDITION OF APWA SPECIFICATIONS FOR STORM SEWER CONSTRUCTION. 2. d50 BY DEFINITION = 50 PERCENT OF THE STONE BY WEIGHT SHALL BE THE SIZE NOTED OR SMALLER. 3. THE CONTRACTOR SHALL UNIFORMLY DISTRIBUTE STONE SIZES THROUGHOUT THE RIP-RAP PAD.



WA = 8' (PER USDA CHARTS)
LA = 3WC + 0.4WA
= 9.2' = 9.5'

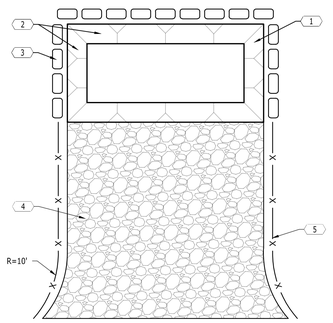
PLAN

SECTION

2 RIP-RAP OUTLET PROTECTION

NOT TO SCALE

KEYNOTES	
CODE	**DESCRIPTION**
1	CONCRETE WASH-OUT; 10'x20'; LINE WITH IMPERMEABLE GEOTEXTILE FABRIC AND SHALL HAVE A MIN. 12' DEPTH.
2	SLOPE SIDES 1:1
3	SANDBAGS
4	WASH-OUT GRAVEL ENTRANCE; 20'x20'; EDGE OF ENTRANCE TO BE LOCATED ON THE CURB EDGE OF ROADWAY
5	SILT FENCE; STAKE DOWN FIRST 10 FEET AT ENTRANCE WITH IRON RODS SPACED AT 12" O.C.
	NOTE: 1. TEMPORARY PIT SHALL BE CONSTRUCTED DEEP ENOUGH TO HANDLE ALL ANTICIPATED SLURRY, SOLID WASTE AND DIRECT RAINFALL. 2. NO RUNOFF SHALL LEAVE THE WASH-OUT AREA. 3. WASH-OUT WASTES INTO TEMPORARY PIT WHERE CONCRETE CAN SET, BE BROKEN UP AND PROPERLY DISPOSED OF. 4. WASH-OUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES CONSTRUCTED AND READY FOR USE, ONCE THE WASH-OUT IS 75% FULL. 5. WASH-OUT SHALL BE LOCATED A MIN. OF 50' AWAY FROM STORM DRAINS, OPEN DITECHES, WETLANDS AND WATER BODIES. 6. SIGNAGE INDENTIFYING THE CONCRETE WASH-OUT AREA SHALL BE INSTALLED WITHIN 5' OF THE WASH-OUT FACILITY.



3 CONCRETE WASH-OUT

NOT TO SCALE

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

Catalyst DESIGN GROUP
1524 WILLIAMS DRIVE, SUITE 201, MURFREESBORO, TN 37129
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LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
816-282-5000

JACK T. PARKER NUMBER PE-2010040852 PROFESSIONAL ENGINEER STATE OF MISSOURI
04/24/2025

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

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

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION	2025/02/06

DRAWING TITLE
SEDIMENT AND EROSION CONTROL DETAILS

PROJECT NUMBER
20240037

DRAWING NUMBER
C3.3

REVISIONS		
REV #	DESCRIPTION	DATE

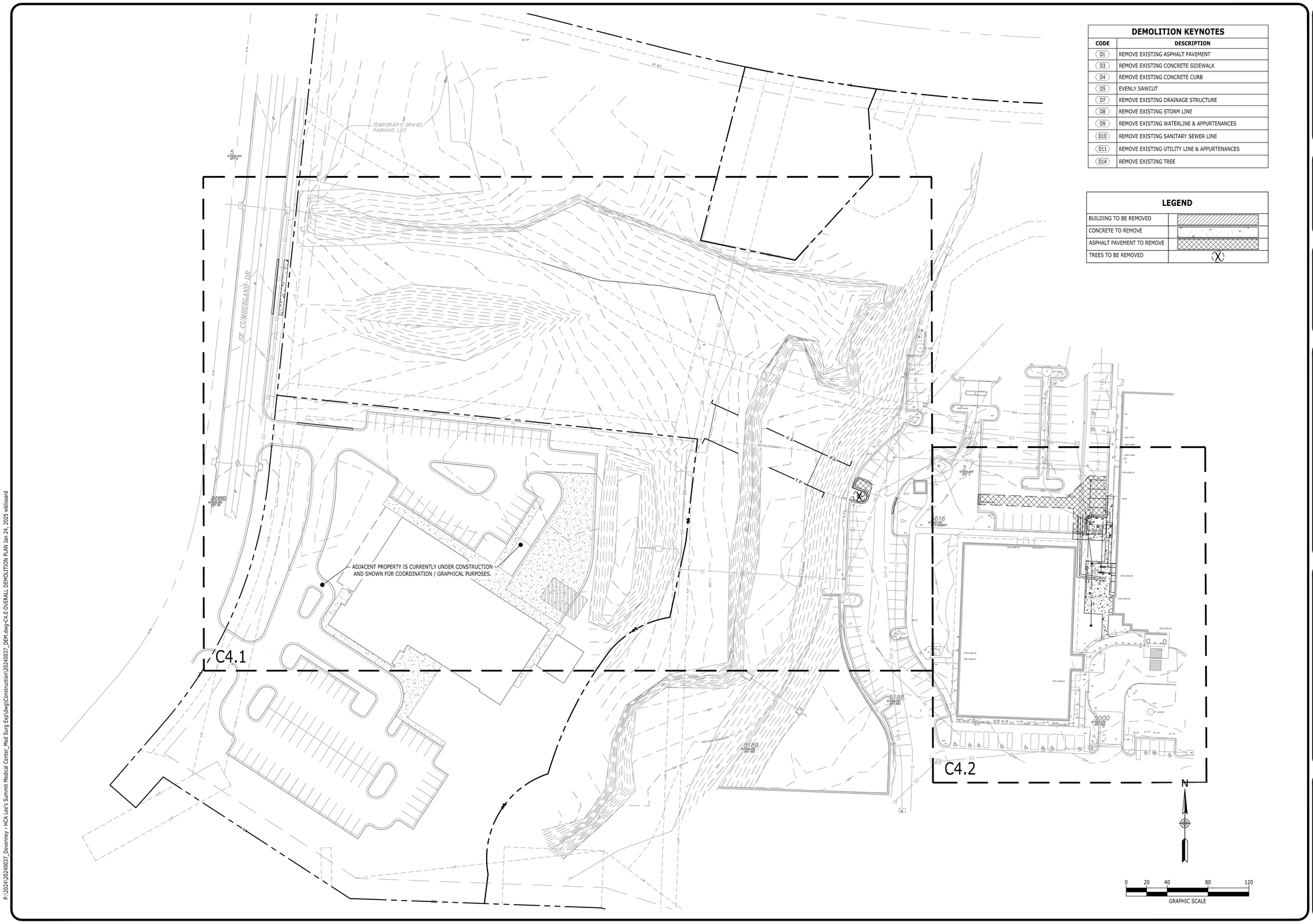
DATE: 2024/12/05
SCALE:
DRAWN: AP
REVIEWED: WB
JOB NUMBER: 6406.24

SEDIMENT AND EROSION CONTROL DETAILS

C3.3

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DEMOLITION KEYNOTES

CODE	DESCRIPTION
D1	REMOVE EXISTING ASPHALT PAVEMENT
D3	REMOVE EXISTING CONCRETE SIDEWALK
D4	REMOVE EXISTING CONCRETE CURB
D5	EVENLY SAWCUT
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D10	REMOVE EXISTING SANITARY SEWER LINE
D11	REMOVE EXISTING UTILITY LINE & APPURTENANCES
D14	REMOVE EXISTING TREE

LEGEND

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

CONSTRUCTION DOCUMENTS

HCA LEE'S SUMMIT MEDICAL CENTER

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

NO.	DATE	DESCRIPTION
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DRAWING TITLE

OVERALL DEMOLITION PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C4.0

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STATE OF MISSOURI
JACK J. PARKER
NUMBER PE-2010040852
PROFESSIONAL ENGINEER
03/24/2025

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2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

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

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

REVISIONS		
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DATE:	2024/12/05
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REVIEWED:	WB
JOB NUMBER:	6406.24

OVERALL DEMOLITION PLAN

C4.0

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

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DRAWING NUMBER
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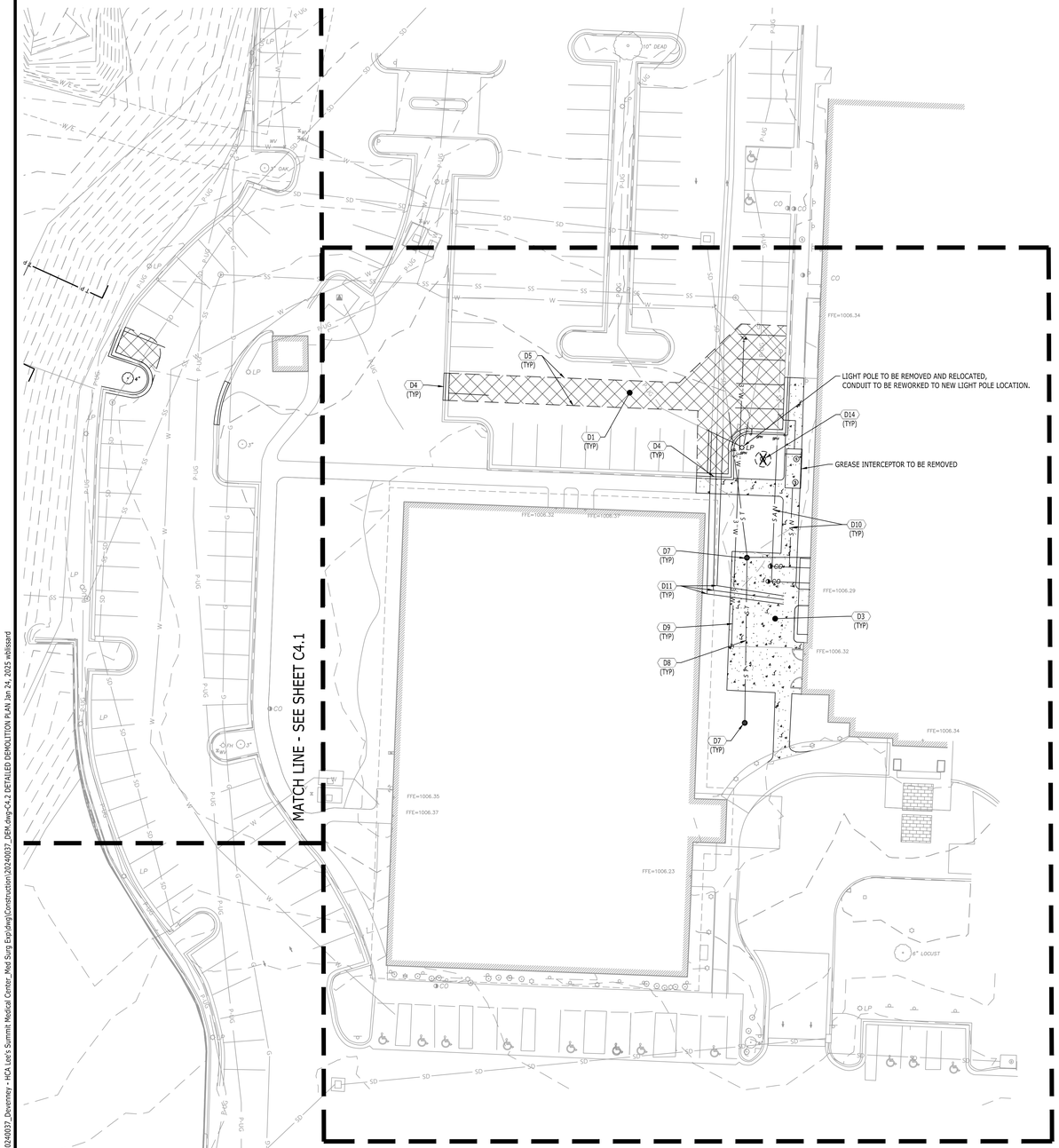
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JOB NUMBER:	6406.24

DETAILED DEMOLITION PLAN

C4.1

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

N

0 10 20 40 60
GRAPHIC SCALE

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DRAWING NUMBER
C4.2

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2100 SE BLUE PKWY
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MISSOURI DHSS

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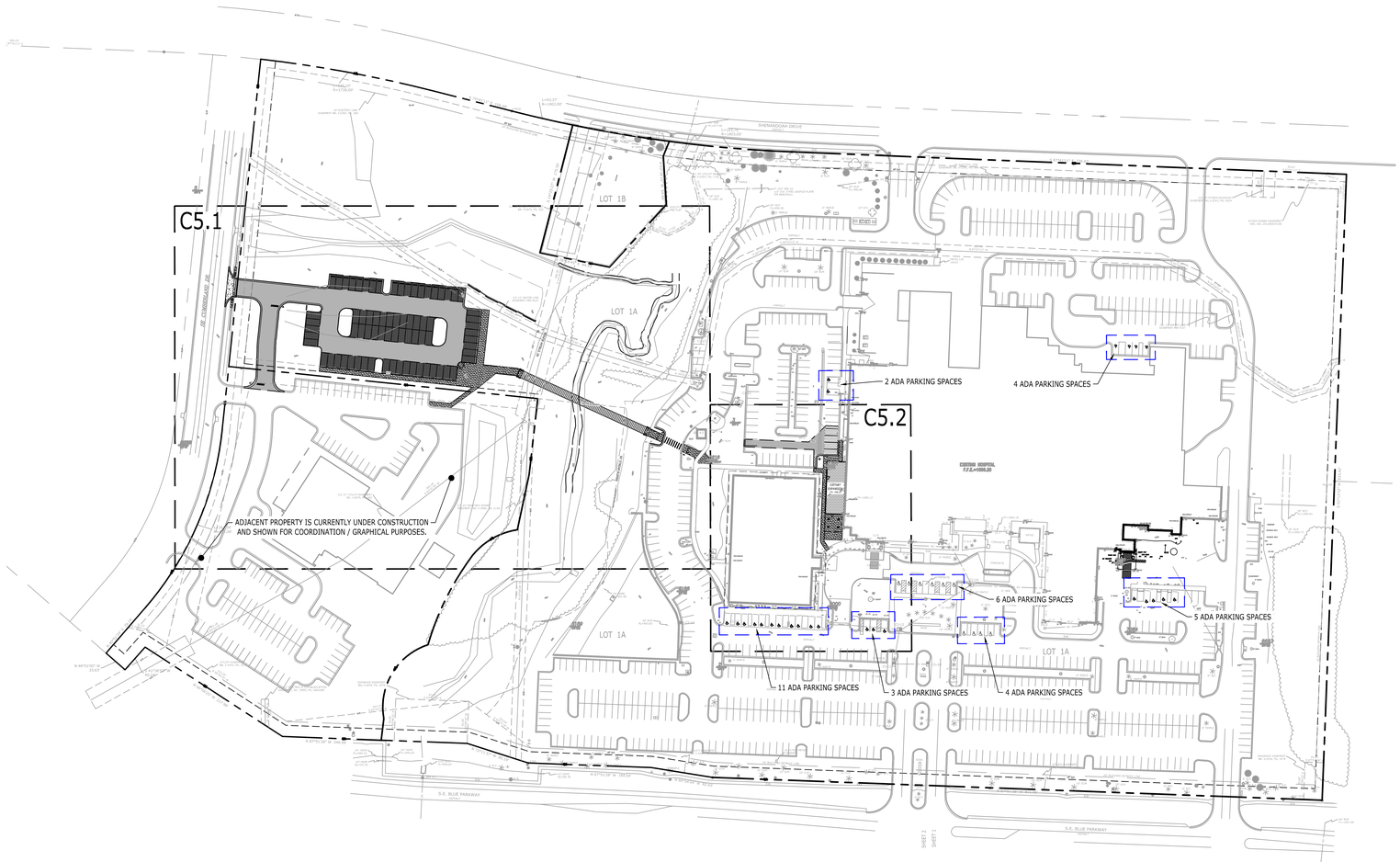
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JOB NUMBER:	6406.24

DETAILED DEMOLITION PLAN

C4.2

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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
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S4C	CONCRETE SIDEWALK AT CURB & GUTTER	3 / C8.0
S5	SIDEWALK JOINTS	6 / C8.0
S10	ACCESSIBLE RAMP	3 / C8.1
S14	BOLLARD	12 / C8.0
S15	PEDESTRIAN CROSSWALK SIGN	7 / C8.0
S16	STOP SIGN	4 / C8.0
S19	PEDESTRIAN CROSSWALK	7 / 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.:	60-420-99-15-00-0-00-000
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 =	159 SPACES REQUIRED
(122,799 SF OF MOB'S / 1,000SF) X 5 =	614 SPACES REQUIRED
26 BEDS X 1.8 SPACES =	47 SPACES REQUIRED
TOTAL REQUIRED:	820 SPACES REQUIRED
EXISTING PARKING:	752 SPACES
PARKING PROVIDED:	
STANDARD PARKING:	795 SPACES
ADA PARKING:	35 SPACES
TOTAL PROVIDED PARKING:	825 SPACES

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

OWNER:	MIDWEST DIVISION LSH LLC
ADDRESS:	PO BOX 80610 INDIANAPOLIS, IN 46280
PROJECT REPRESENTATIVE:	CATALYST DESIGN GROUP
ADDRESS:	1524 WILLIAMS DRIVE MURFREESBORO, TN 37129
PHONE NO.:	615-701-6411
CONTACT NAME:	JACK PARKER
CONTACT E-MAIL ADDRESS:	jparker@catalyst-dg.com

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

N

0 37.5 75 150 225
GRAPHIC SCALE

Catalyst DESIGN GROUP
1524 WILLIAMS DRIVE, SUITE 201, MURFREESBORO, TN 37129
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LEE'S SUMMIT MEDICAL CENTER
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CONSTRUCTION DOCUMENTS
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NO.	DATE	DESCRIPTION
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DRAWING TITLE
OVERALL LAYOUT PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
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STATE OF MISSOURI
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04/24/2025

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MISSOURI DHSS

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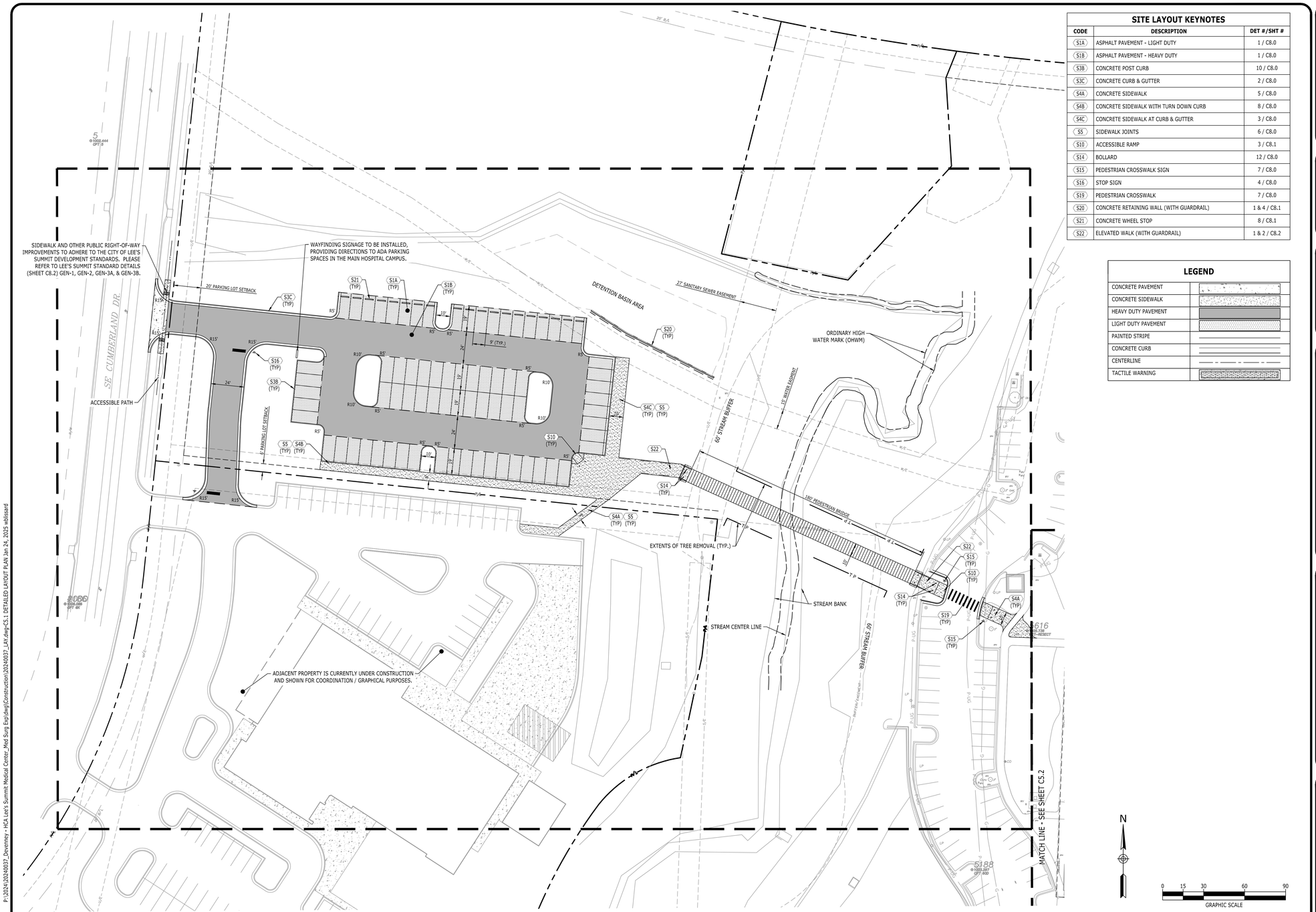
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OVERALL LAYOUT PLAN

C5.0

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

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

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

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION	2025/02/06

DRAWING TITLE
DETAILED LAYOUT PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C5.1

REVISIONS

REV #	DESCRIPTION	DATE

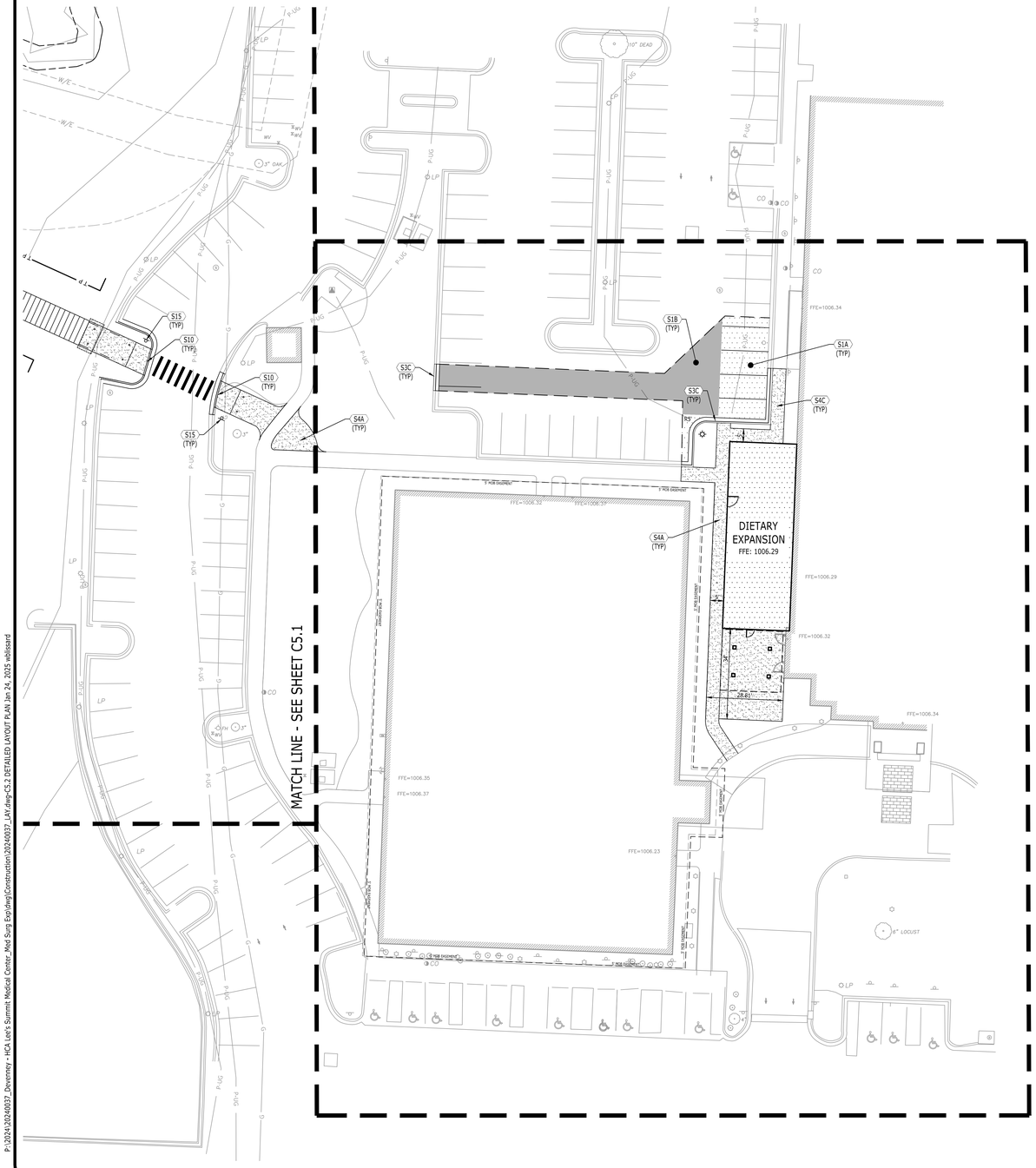
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JOB NUMBER:	6406.24

DETAILED LAYOUT PLAN

C5.1

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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
S10	ACCESSIBLE RAMP	3 / C8.1
S14	BOLLARD	12 / C8.0
S15	PEDESTRIAN CROSSWALK SIGN	7 / C8.0
S16	STOP SIGN	4 / C8.0
S19	PEDESTRIAN CROSSWALK	7 / 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

LEGEND

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

N

0 10 20 40 60

GRAPHIC SCALE

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Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

Catalyst Design Group
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(615) 622-7200 | WWW.CATALYST-DG.COM

JACK J. PARKER
NUMBER
PE-2010040852
PROFESSIONAL ENGINEER
STATE OF MISSOURI
01/24/2025

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CONSTRUCTION DOCUMENTS
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JACKSON COUNTY

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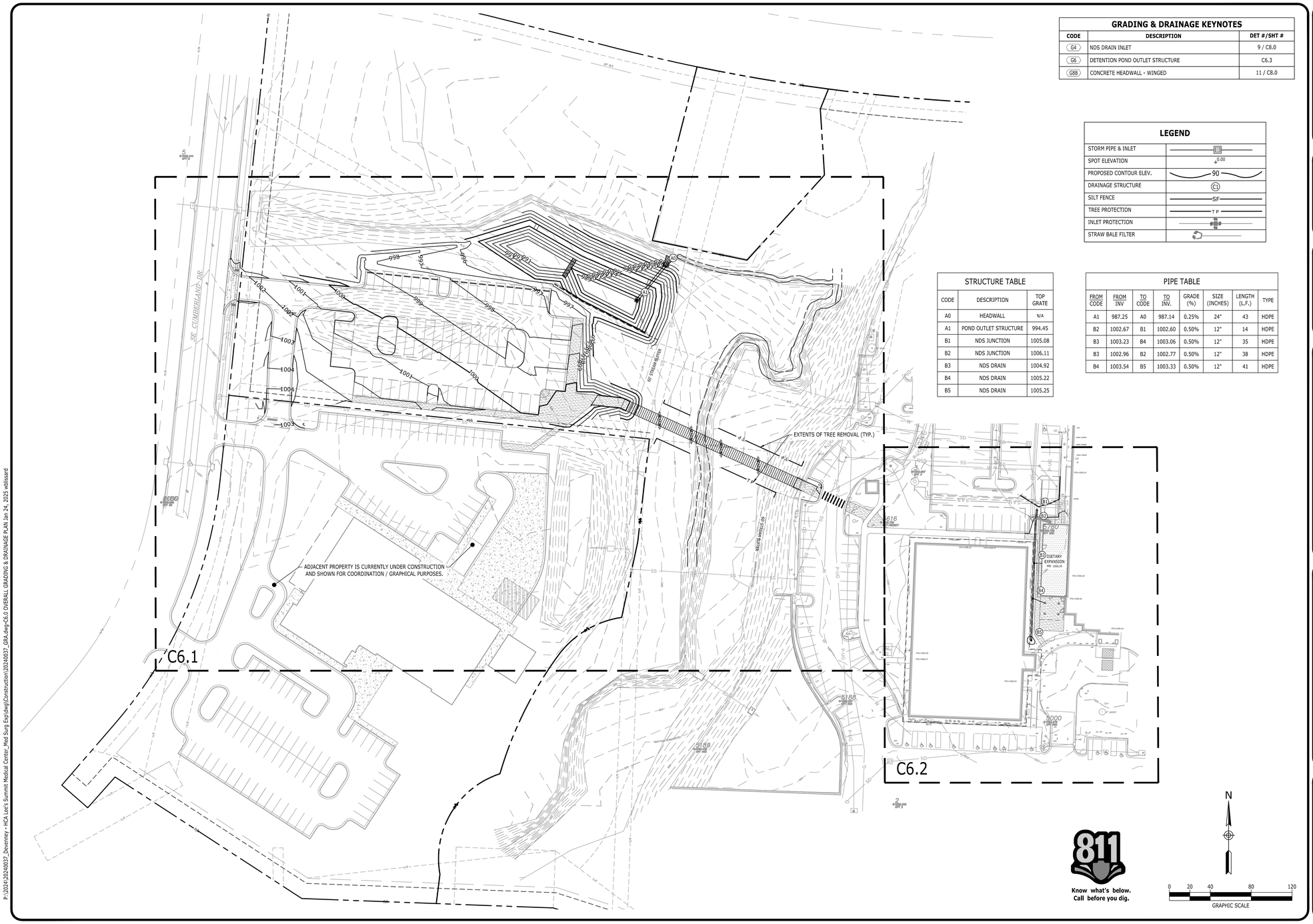
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DETAILED LAYOUT PLAN

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GRADING & DRAINAGE KEYNOTES

CODE	DESCRIPTION	DET # /SHT #
G4	NDS DRAIN INLET	9 / C8.0
G6	DETENTION POND OUTLET STRUCTURE	C6.3
G88	CONCRETE HEADWALL - WINGED	11 / C8.0

LEGEND

STORM PIPE & INLET	
SPOT ELEVATION	0.00
PROPOSED CONTOUR ELEV.	90
DRAINAGE STRUCTURE	C1
SILT FENCE	SF
TREE PROTECTION	T.P.
INLET PROTECTION	
STRAW BALE FILTER	

STRUCTURE TABLE

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

PIPE TABLE

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

Know what's below.
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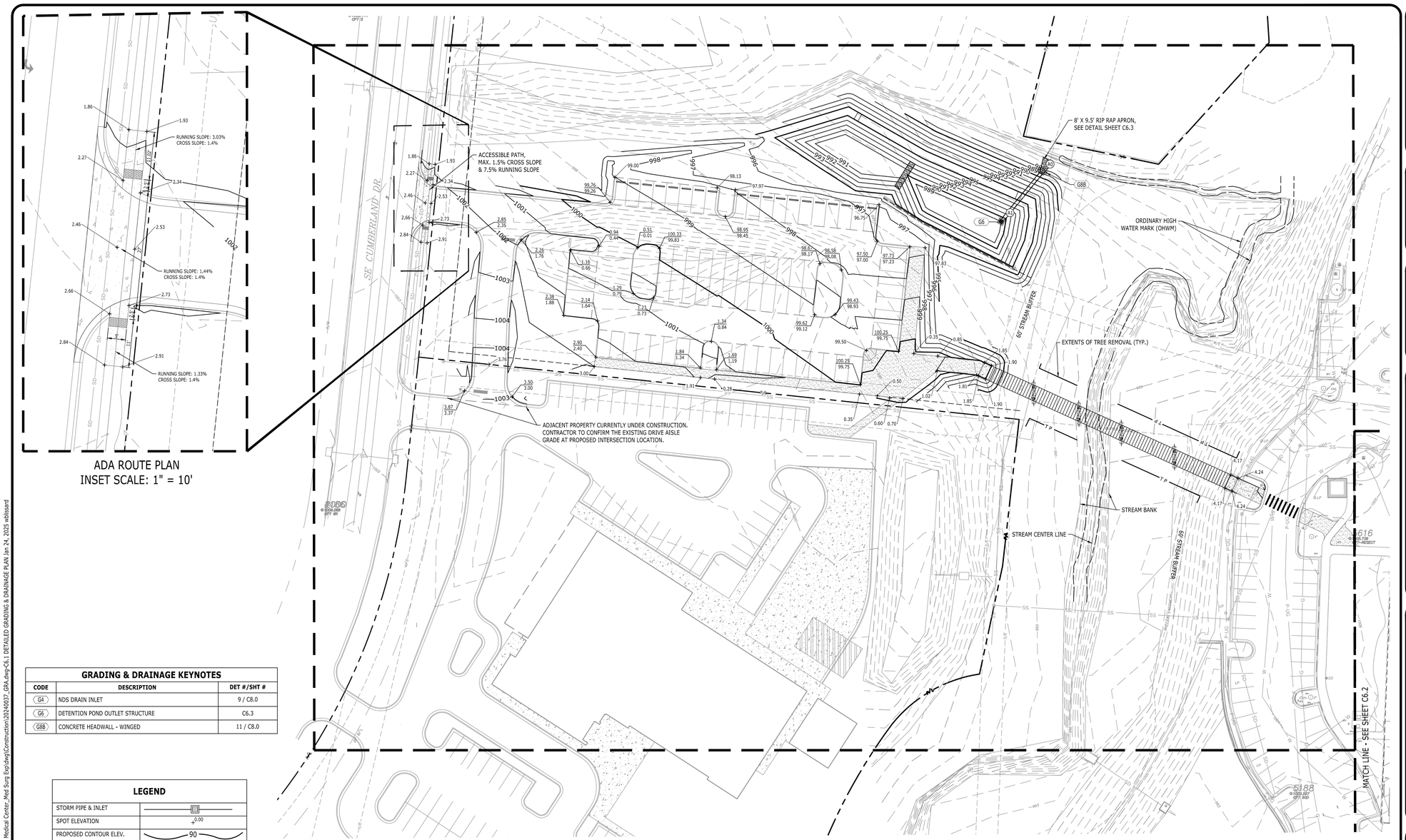
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OVERALL GRADING & DRAINAGE PLAN

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GRADING & DRAINAGE KEYNOTES		
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G4	NDS DRAIN INLET	9 / C8.0
G6	DETENTION POND OUTLET STRUCTURE	C6.3
G8B	CONCRETE HEADWALL - WINGED	11 / C8.0

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

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0 15 30 60 90
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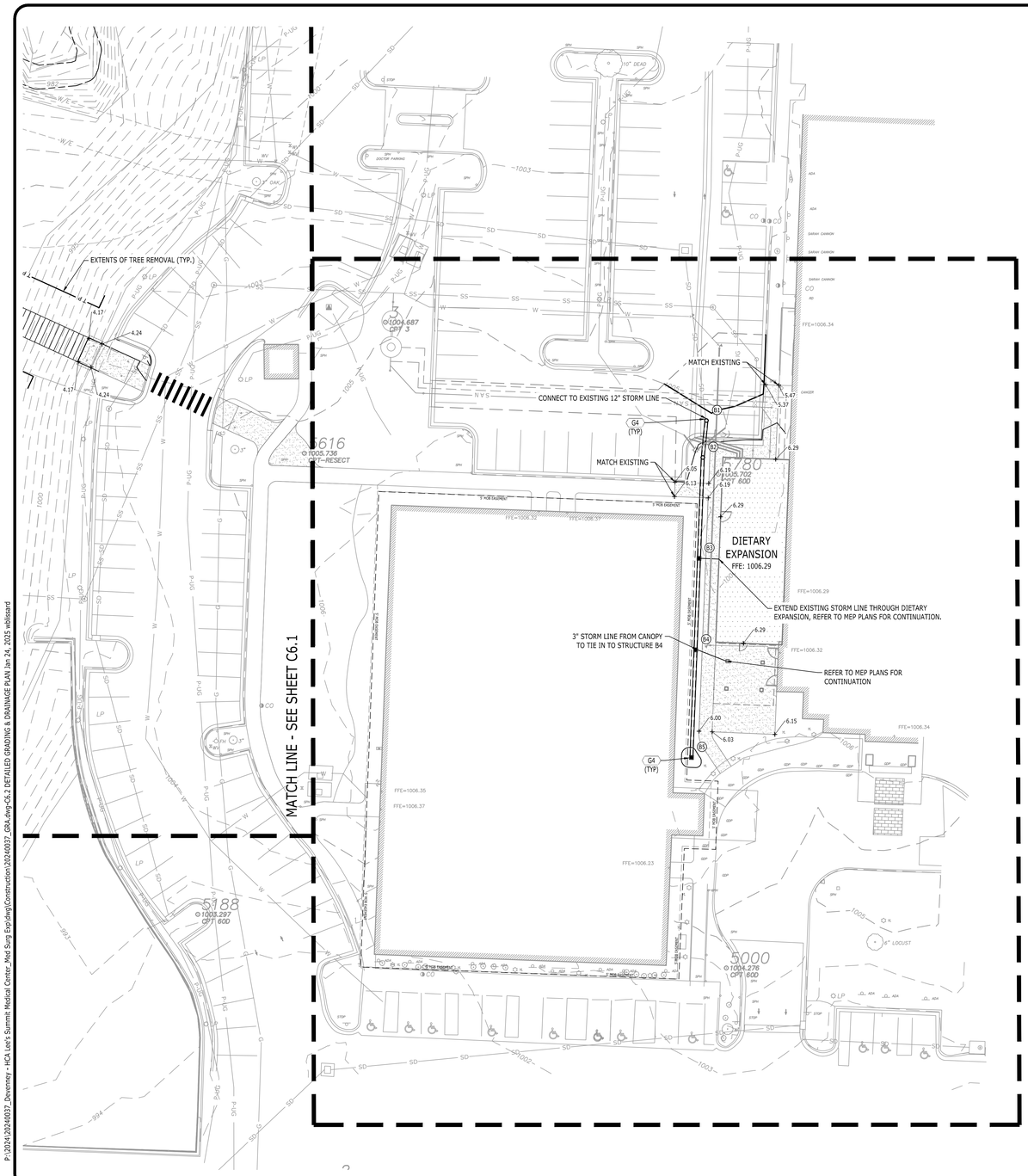
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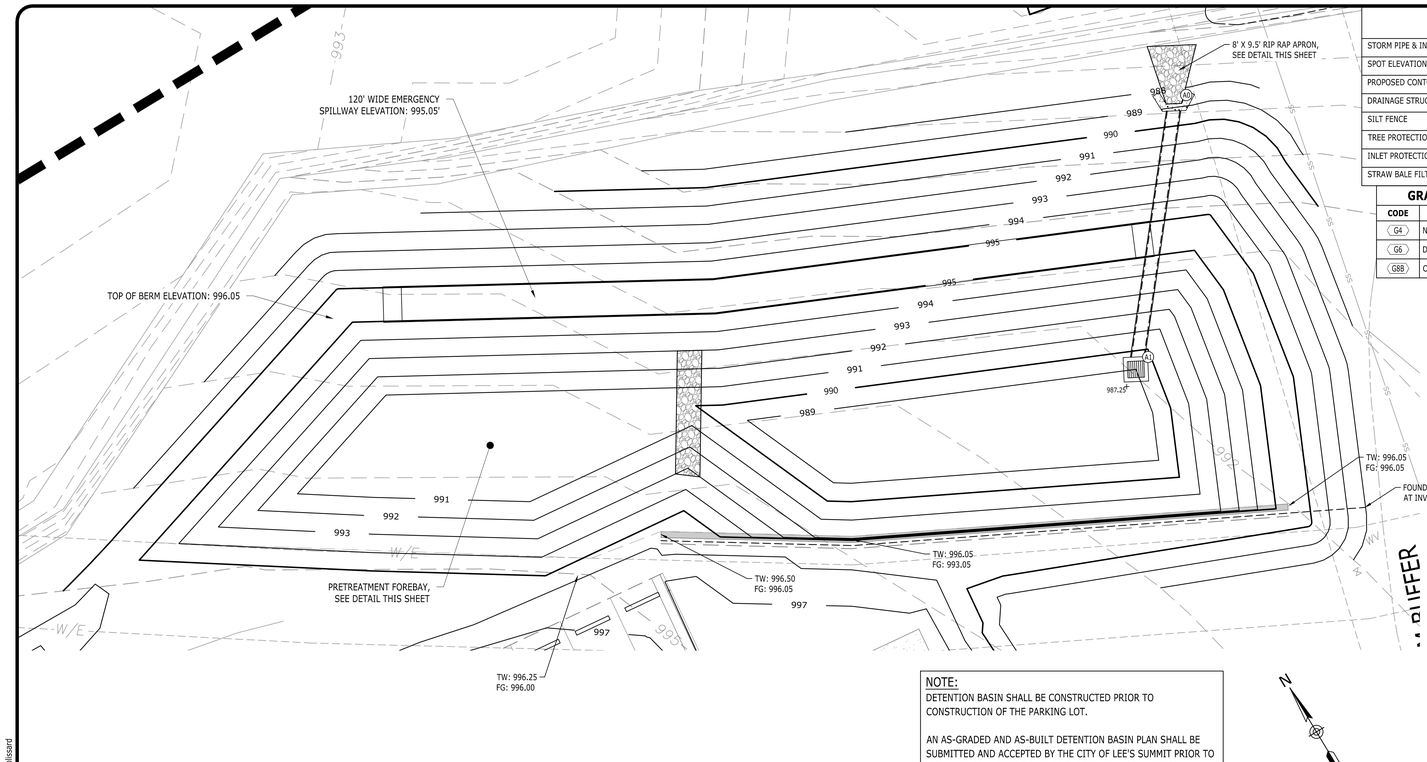
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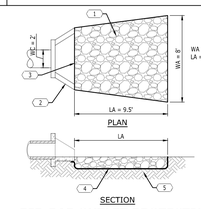
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SPOT ELEVATION	0.00
PROPOSED CONTOUR ELEV.	90
DRAINAGE STRUCTURE	C1
SILT FENCE	SF
TREE PROTECTION	T P
INLET PROTECTION	
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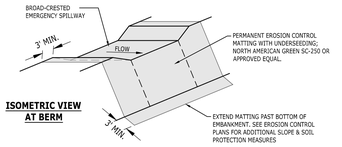
KEYNOTES

CODE	DESCRIPTION
1	RIP-RAP (D50 = 9") TO BE HAND-PLACED NATIVE LIMESTONE PLACED TO A MIN. DEPTH OF 1.5'.
2	CONCRETE HEADWALL
3	MATCH HEADWALL APRON WIDTH
4	FILTER FABRIC; MIRAFI 180N/BP 4553 OR AN APPROVED EQUIVALENT
	NOTE: 1. RIP-RAP STONE SHALL BE "FRACTURED FACED" WITH AT LEAST THREE DISTINCT SIDES. PROVIDE AND INSTALL IN ACCORDANCE WITH SECTION 2600 OF THE CURRENT EDITION OF APWA SPECIFICATIONS FOR STORM SEWER CONSTRUCTION. 2. d50 BY DEFINITION = 50 PERCENT OF THE STONE BY WEIGHT SHALL BE THE SIZE NOTED OR SMALLER. 3. THE CONTRACTOR SHALL UNIFORMLY DISTRIBUTE STONE SIZES THROUGHOUT THE RIP-RAP PAD.

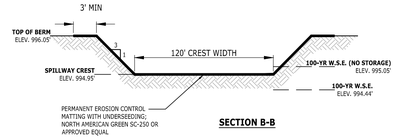


RIP-RAP OUTLET PROTECTION

NOT TO SCALE



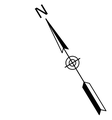
ISOMETRIC VIEW AT BERM



SECTION B-B

NOTE:
DETENTION BASIN SHALL BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE PARKING LOT.

AN AS-GRADED AND AS-BUILT DETENTION BASIN PLAN SHALL BE SUBMITTED AND ACCEPTED BY THE CITY OF LEE'S SUMMIT PRIOR TO ISSUANCE OF A CERTIFICATE OF SUBSTANTIAL COMPLETION.

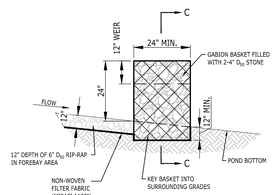


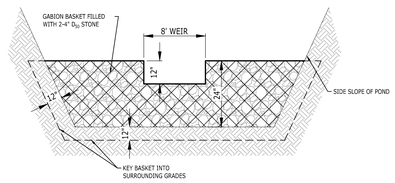
811
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0 5 10 20 30
GRAPHIC SCALE

EMERGENCY SPILLWAY

SECTION C-C



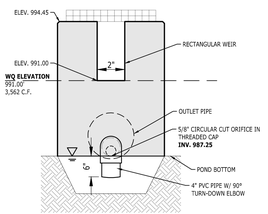


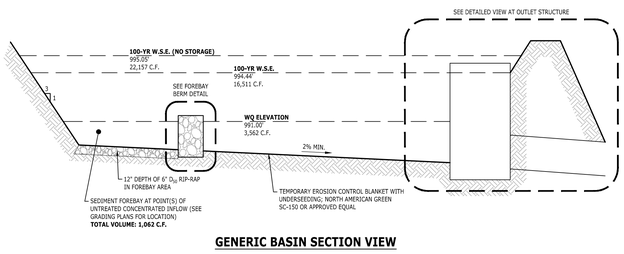
FOREBAY BERM

DETENTION POND NOTES

1. AREA OF EMBANKMENT, OUTLET STRUCTURE(S), AND DOWNSTREAM OF EMERGENCY SPILLWAY(S) SHALL BE CLEARED OF ALL TREES, VEGETATION, ROOTS, AND OTHER OBSTRUCTIONS. THE PONDING AREA OF THE IMPOUNDMENT (BELOW THE 100-YEAR W.S.E.) SHALL BE KEPT CLEAR OF TREES AND OVERGROWTH TO FACILITATE MAINTENANCE AND ACCESS.
2. EMBANKMENT MATERIALS SHALL BE SELECTED BY THE GEOTECHNICAL ENGINEER AND SHALL BE TESTED, INSTALLED, AND COMPACTED AT THEIR DIRECTION. EMBANKMENT MATERIAL SHALL BE FREE OF ROOTS, CONSTRUCTION WASTE, OR DECOMPOSABLE MATERIAL.
3. THE TOP OF BERM SHALL BE CONSTRUCTED ±5% ABOVE THE DESIGN HEIGHT (AS A PERCENTAGE OF THE TOTAL HEIGHT OF THE IMPOUNDMENT) TO ALLOW FOR SETTLEMENT, AND SHOULD BE PROPERLY COMPACTED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
4. THE EMBANKMENT & POND SHALL BE STABILIZED UPON COMPLETION OF THE SURROUNDING EARTHWORK WITH SOD, SEED/STRAW, MATTING, OR OTHER PLANTINGS AS REFLECTED IN THESE PLANS AND THE LANDSCAPE ARCHITECTURAL DOCUMENTS.

SECTION A-A

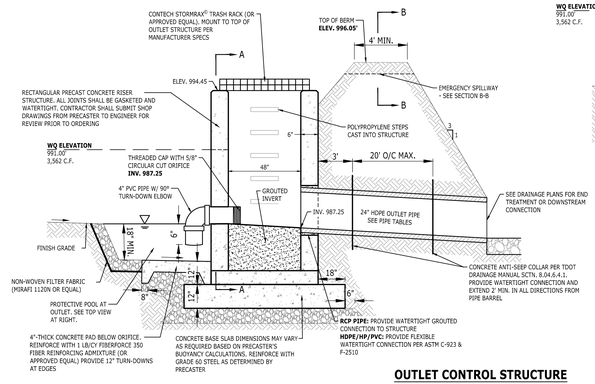




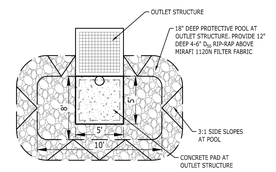
GENERIC BASIN SECTION VIEW

DRY DETENTION POND

NOT TO SCALE



OUTLET CONTROL STRUCTURE



TOP VIEW AT POOL

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816-282-5000

STATE OF MISSOURI
JACK J. PARKER
NUMBER PE-2010040852
PROFESSIONAL ENGINEER
03/24/2025

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MISSOURI DHSS

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AGENCY

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DRAWING TITLE
DETENTION BASIN DETAILS

PROJECT NUMBER
20240037

DRAWING NUMBER
C6.3

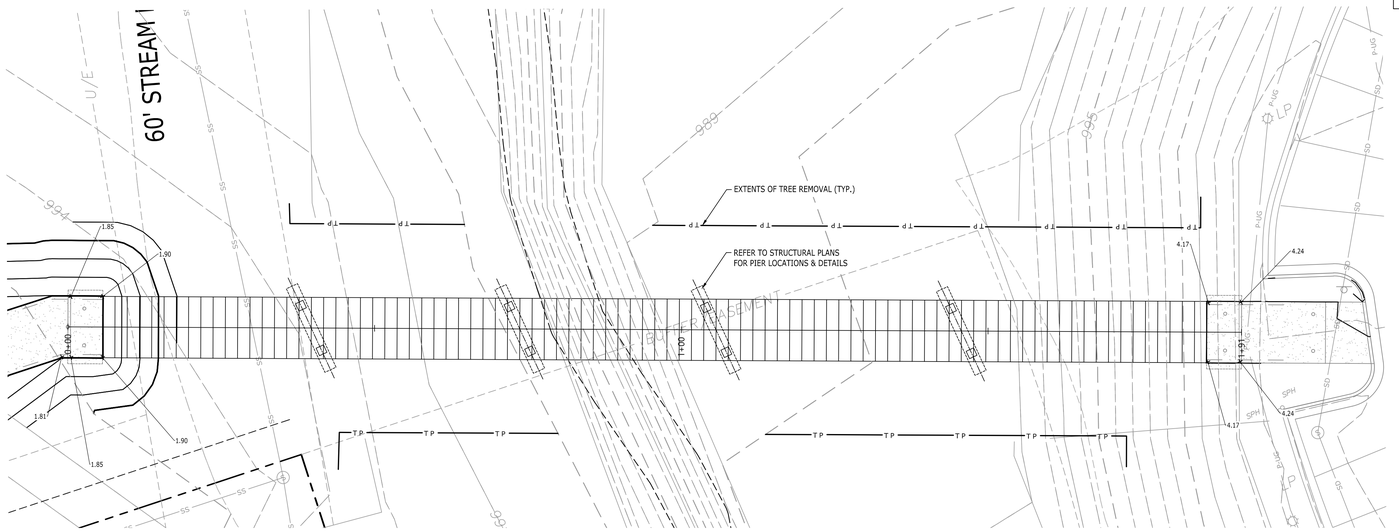
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REVIEWED:	WB
JOB NUMBER:	6406.24

DETENTION BASIN DETAILS

C6.3

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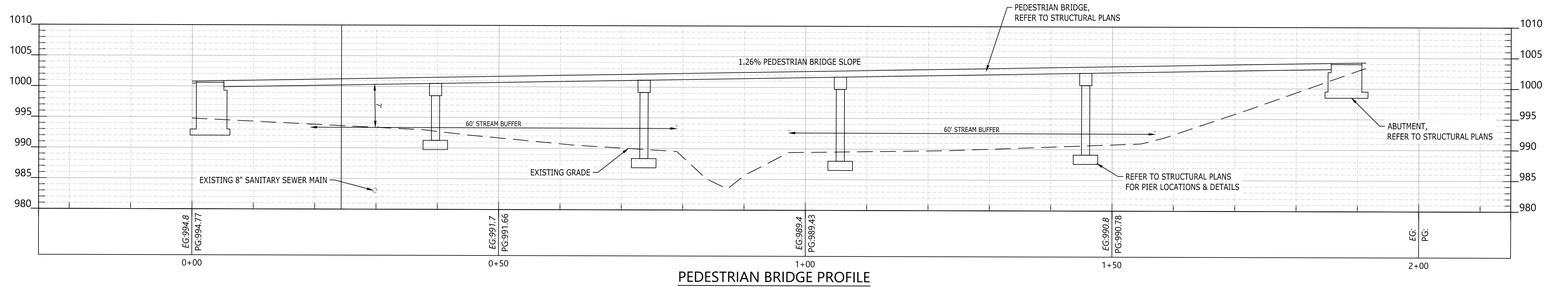
GRADING & DRAINAGE KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
G4	NDS DRAIN INLET	9 / C8.0
G6	DETENTION POND OUTLET STRUCTURE	C6.3
G8B	CONCRETE HEADWALL - WINGED	11 / C8.0



LEGEND	
STORM PIPE & INLET	
SPOT ELEVATION	0.00
PROPOSED CONTOUR ELEV.	90
DRAINAGE STRUCTURE	C1
SILT FENCE	SF
TREE PROTECTION	T P
INLET PROTECTION	#### IN
STRAW BALE FILTER	

N

0 5 10 20 30
GRAPHIC SCALE



PEDESTRIAN BRIDGE PROFILE
SCALE H:1"=20'; V:1"=20'

811
Know what's below.
Call before you dig.

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DRAWING TITLE
PEDESTRIAN BRIDGE PLAN & PROFILE

PROJECT NUMBER
20240037

DRAWING NUMBER
C6.4

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STATE OF MISSOURI
JACK J. PARKER
NUMBER
PE-2010040852
PROFESSIONAL ENGINEER
04/24/2025

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AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

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REVISIONS		
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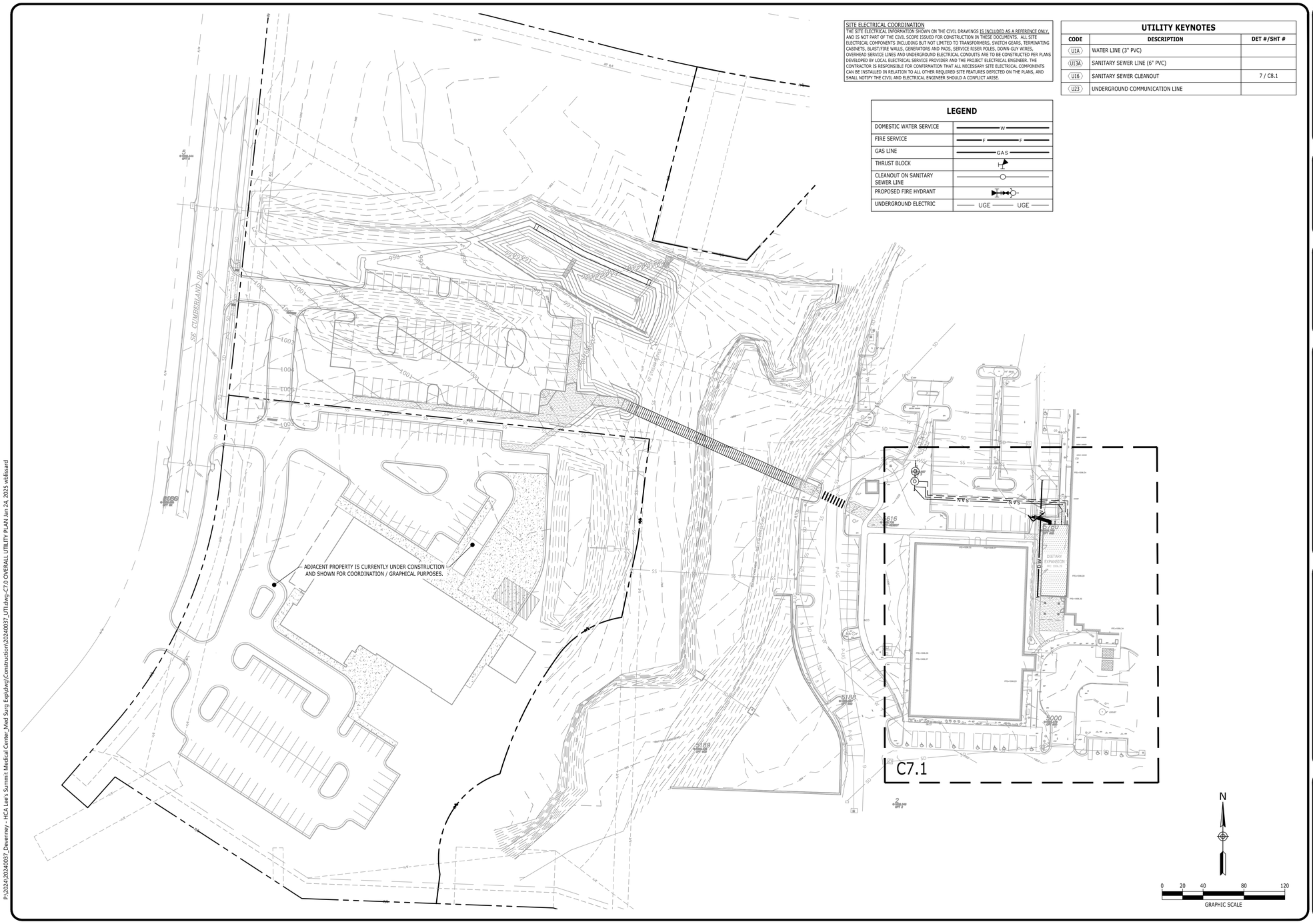
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PEDESTRIAN BRIDGE PLAN & PROFILE

C6.4

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SITE ELECTRICAL COORDINATION

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

LEGEND

DOMESTIC WATER SERVICE	W
FIRE SERVICE	F 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	

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JACKSON COUNTY

NO.	DATE	DESCRIPTION
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DRAWING TITLE
OVERALL UTILITY PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C7.0

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MISSOURI DHSS

FACILITY NUMBER:
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AGENCY APPROVALS:
AGENCY

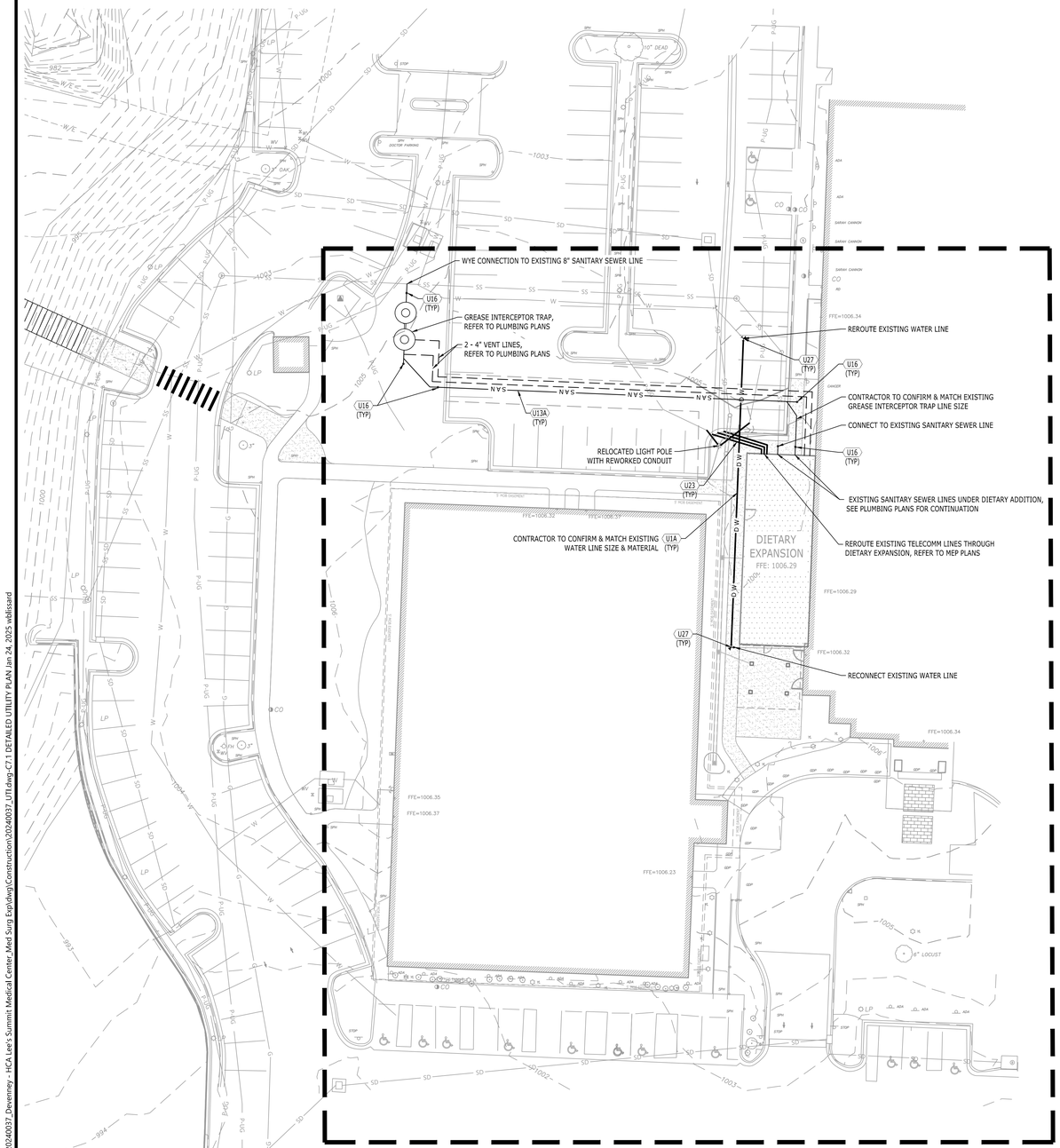
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REV #	DESCRIPTION	DATE

DATE:	2024/12/05
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OVERALL UTILITY PLAN

C7.0

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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 #
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U23	UNDERGROUND COMMUNICATION LINE	
U27	THRUST BLOCK	6 / C8.1

N

0 10 20 40 60

GRAPHIC SCALE

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NO.	DATE	DESCRIPTION
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DRAWING TITLE
DETAILED UTILITY PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C7.1

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AGENCY

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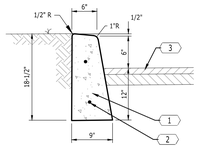
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DETAILED UTILITY PLAN

C7.1

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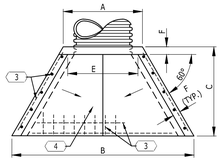


KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE; 3500 PSI
2	NO. 4 BAR, CONTINUOUS; (2 TYP.)
3	FINISHED PAVEMENT GRADE

10 CONCRETE POST CURB

NOT TO SCALE

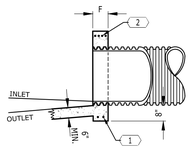
KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE REINFORCEMENT; TWO, NO. 2 BARS
2	CONCRETE REINFORCEMENT; FOUR, NO. 4 BARS
3	CONCRETE REINFORCEMENT; NO. 4 BARS AT 12" O.C. EACH WAY IN FLOOR AND WALLS
4	SLOPE APRON TO DRAIN
	NOTE: CHAMFER ON ALL EXPOSED EDGES 1"



PLAN

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

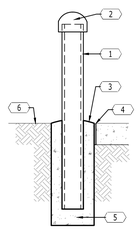
* 0" ON 4' WINGED HEADWALL



SECTION A-A ELEVATION

11 WINGED HEADWALL

NOT TO SCALE

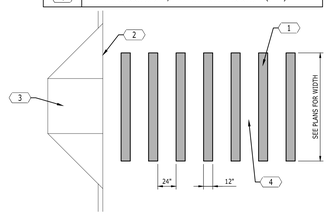


KEYNOTES	
CODE	DESCRIPTION
2	PREFABRICATED CAP
1	6"ø X 6'-8" STEEL PIPE BOLLARD FILLED WITH CONCRETE. PRIME WITH SUITABLE PRIMER AND PAINT IN A COLOR TO BE SELECTED BY THE ARCHITECT.
3	1" CROWN
4	1/2" EXPANSION JOINT MATERIAL, AASHTO M-33, WHERE PLACED IN A RIGID PAVEMENT AREA.
5	3500 PSI CONCRETE
6	F.G.
	NOTE: THE PRIMER AND FIRST COAT OF PAINT SHALL BE APPLIED BEFORE INSTALLATION. A SECOND COAT OF PAINT SHALL BE APPLIED AFTER INSTALLATION.

12 STEEL BOLLARD WITH CAP

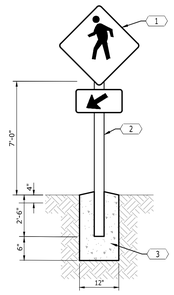
NOT TO SCALE

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



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

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

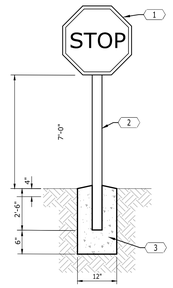


7 PEDESTRIAN CROSSWALK

NOT TO SCALE

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

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

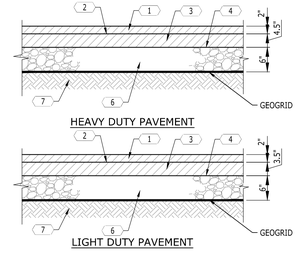


4 STOP SIGN

NOT TO SCALE

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

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



1 ASPHALT PAVEMENT

NOT TO SCALE

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

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

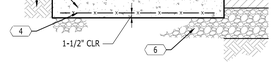


8 SIDEWALK AT POST CURB

NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE SIDEWALK; 4" THICK; 3500 PSI CONCRETE; CROSS SLOPE 2% MAX., 1% MIN.
2	BROOM FINISH
3	CONTROL JOINTS 5' O.C.; EXPANSION JOINTS 25' O.C. AND WHERE SIDEWALKS ABUT RIGID MATERIALS.
4	CONCRETE REINFORCEMENT; 6"x6"xW2.9x22.9 W.W.F.; GRADE 60 STEEL
5	TOPSOIL; PLACE WITHIN ¾" OF WALKWAY SURFACE
6	4" MINERAL AGGREGATE BASE
7	ASPHALT PAVEMENT (REFER TO DETAIL)

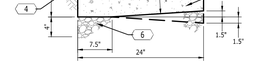
NOTE: SIDEWALKS TO HAVE A MAXIMUM LONGITUDINAL SLOPE OF 7.5%.



5 CONCRETE SIDEWALK

NOT TO SCALE

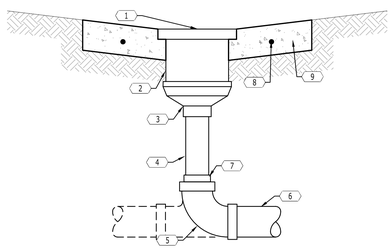
KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE; 3500 PSI
2	SPILL CURB
3	CATCH CURB; TRANSITION FROM CATCH TO SPILL CURB OVER 10' LENGTH (TYP.)
4	CONCRETE REINFORCEMENT; NO. 4 BAR, CONTINUOUS (3 TYP.)
5	BACKFILL BEHIND CURB
6	4" MINERAL AGGREGATE BASE



2 CONCRETE CURB AND GUTTER

NOT TO SCALE

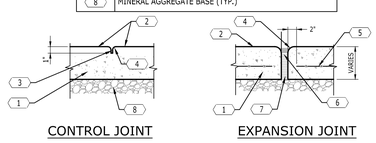
KEYNOTES	
CODE	DESCRIPTION
1	8" PVC ELL OR TEE
2	NDS 1211 GRATE
3	NDS 1216 RISER BOX
4	NDS 1230 HUB ADAPTOR
5	6" PVC, LENGTH AS REQ'D
6	8" PVC STORM PIPE
7	8" X 6" PVC REDUCER. MAY BE OMITTED IF REDUCING TEE IS USED.
8	No. 4 BAR, CONT.
9	4" THICK CONCRETE COLLAR



9 12" NDS DRAIN INLET

NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE SIDEWALK; 4" THICK; 3500 PSI CONCRETE; SLOPE 2% MAX., 1% MIN.; 8" CONCRETE THICKNESS WHERE HS-20-44 LOADING IS REQUIRED (SEE PLANS)
2	BROOM FINISH
3	CONTROL JOINTS 5' O.C.; EXPANSION JOINTS 25' O.C. AND WHERE SIDEWALKS ABT RIGID MATERIALS
4	¾" EXPANSION JOINT
5	NO. 4 DOWELS; 12" O.C.; GREASE ONE END
6	CONCRETE REINFORCEMENT; 6"x6"xW2.9xW2.9 W.W.F.; GRADE 60 STEEL
7	4" MINERAL AGGREGATE OR SAND BASE; USE 6" AGGREGATE WHERE HS-20-44 LOADING IS REQUIRED (SEE PLANS)

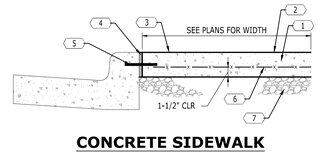


CONTROL JOINT EXPANSION JOINT

6 SIDEWALK JOINTS

NOT TO SCALE

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



3 CONCRETE SIDEWALK AT CURB AND GUTTER

NOT TO SCALE

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816-282-5000

STATE OF MISSOURI
JACK J. PARKER
NUMBER PE-2010040852
PROFESSIONAL ENGINEER
03/24/2025

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CONSTRUCTION DOCUMENTS

HCA LEE'S SUMMIT MEDICAL CENTER

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

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

REVISIONS		
REV #	DESCRIPTION	DATE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION	2025/02/06

DRAWING TITLE

SITE DETAILS

PROJECT NUMBER
20240037

DRAWING NUMBER
C8.0

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

SITE DETAILS

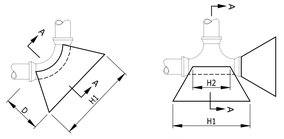
C8.0

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\20240037_DET.dwg C8.0 SITE DETAILS Jan 24, 2025 wallissard

6/10/2024 5:05:24 PM Autodesk Docs://6406.24.0001 - HCA - LSMC MedSurg Expansion_rvt23/6406.24.0001 HCA - LSMC Med Surge Expansion.rvt

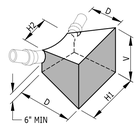
NOTE:

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

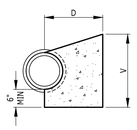


BENDS

TEES AND PLUGS



BENDS (ISOMETRIC)



SECTION "A-A"

PIPE SIZE	90° BEND			
	H1	H2	D	V
4"	24"	12"	12"	24"
6"	36"	16"	18"	30"
8"	48"	18"	18"	36"

PIPE SIZE	45° BEND			
	H1	H2	D	V
4"	24"	8"	12"	12"
6"	30"	10"	18"	20"
8"	36"	11"	18"	30"

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

PIPE SIZE	11 1/4° BEND			
	H1	H2	D	V
4"	12"	8"	12"	12"
6"	16"	10"	18"	12"
8"	18"	11"	18"	16"

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

6 THRUST BLOCKING

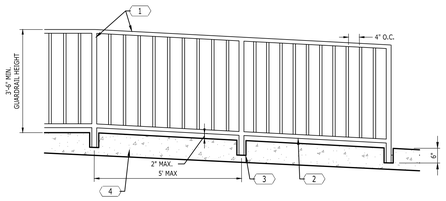
NOT TO SCALE

5 RESERVED

NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	1-¼" O.D. TUBULAR POST AND RAIL
2	1-¼" O.D. TUBULAR BOTTOM RAIL
3	MIN. 2-¾" I.D. TUBE STEEL SLEEVE CAST IN PLACE. GROUT GUARDRAIL POST IN PLACE (TYP.).
4	CONCRETE SURFACE

NOTES:
1. PROVIDE 42" HIGH 1-¼" O.D. ROUND OR SQUARE TUBE GUARD RAIL AT ELEVATION DROPS 30" OR GREATER. VERTICAL PICKETS SHALL BE ½" SQUARE TUBES SPACED 4" APART ON CENTER, MAX.
2. 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.
3. VARIATIONS IN GUARDRAIL HEIGHT SHALL NOT BE ALLOWED.
4. THE MAXIMUM CLEARANCE BETWEEN THE BOTTOM RAIL AND THE CONCRETE SURFACE OR CHEEK WALL TOP SHALL BE 2".



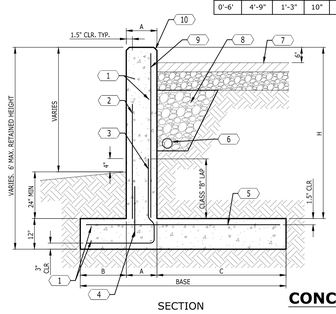
4 GUARDRAIL

NOT TO SCALE

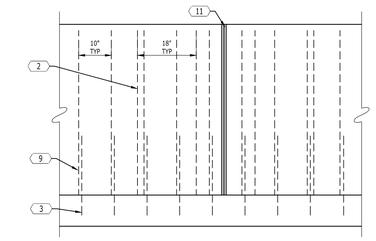
KEYNOTES	
CODE	DESCRIPTION
1	BARS "L"
2	BARS "V2"
3	BARS "D"
4	No. 4 BARS 18" LONG, 18" APART
5	BARS "T"
6	4" PERFORATED PVC FOUNDATION DRAIN.
7	PAVEMENT SURFACE
8	FREE-DRAINING STONE FILL
9	BARS "V1"
10	1" CHAMFER, TYP.
11	1" DEEP VEE CONTROL JOINT. SPACE 15' APART MAX. EACH FACE. CUT ALTERNATE HORIZONTAL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

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

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



SECTION

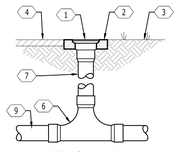


ELEVATION

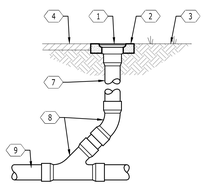
1 CONCRETE RETAINING WALL

NOT TO SCALE

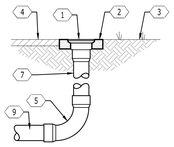
KEYNOTES	
CODE	DESCRIPTION
1	CLEANOUT WITH COVER; BRONZE OR PVC CLEANOUT WITH RECESSED CAP IN LAWN AREAS. CAST IRON CLEANOUT WITH RECESSED CAP IN PAVEMENT AREAS. BRONZE CAP TO BE USED IN SIDEWALKS.
2	18"x18"x4" CONCRETE COLLAR
3	FINISHED GRADE
4	ASPHALT
5	LONG SWEEP 1/4 BEND. INSTALL REDUCER WHERE REQUIRED.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



TWO-WAY



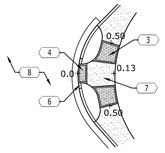
ONE-WAY



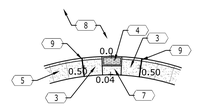
END-OF-LINE

7 CLEANOUTS

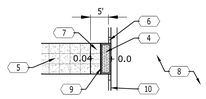
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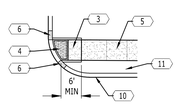
ACCESSIBLE CURB RAMP "A"



ACCESSIBLE CURB RAMP "B"

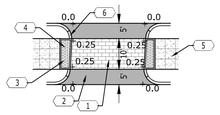


ACCESSIBLE CURB RAMP "C"



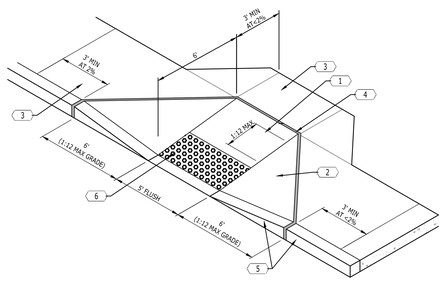
ACCESSIBLE CURB RAMP "D"

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

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	¾" EXPANSION JOINT (TYP.)
5	CONCRETE CURB; TRANSITION FROM FLUSH CONDITION TO CURB HEIGHT; PAINT YELLOW; (TYP. EACH SIDE OF RAMP)
6	TACTILE WARNING; PROVIDE WHERE ABUTTING A PUBLIC STREET



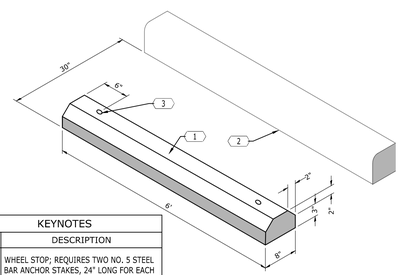
ACCESSIBLE RAMP - FLARED

3 ACCESSIBLE CURB RAMPS

NOT TO SCALE

2 RESERVED

NOT TO SCALE



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

8 PRECAST CONCRETE WHEEL STOP

NOT TO SCALE

P:\2024\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\20240037_DET.dwg-C8.1 SITE DETAILS Jan 24, 2025 wbissard

Devenney GROUP

Devenney Group Ltd., Architects

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JACK J. PARKER
NUMBER PE-2010040852
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01/24/2025

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INPATIENT BED EXPANSION

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

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2000 SE SHENANDOAH DRIVE
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JACKSON COUNTY

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CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

NO.	DATE	DESCRIPTION
1	2025/02/06	DESIGN COORDINATION

REVISIONS		
REV #	DESCRIPTION	DATE

DRAWING TITLE
SITE DETAILS

PROJECT NUMBER
20240037

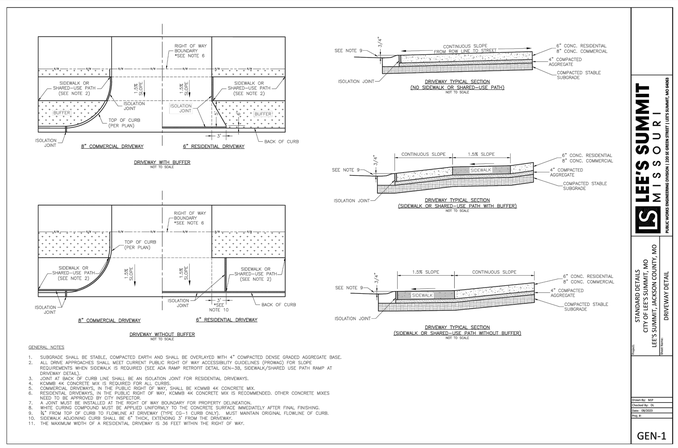
DRAWING NUMBER
C8.1

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

SITE DETAILS

C8.1

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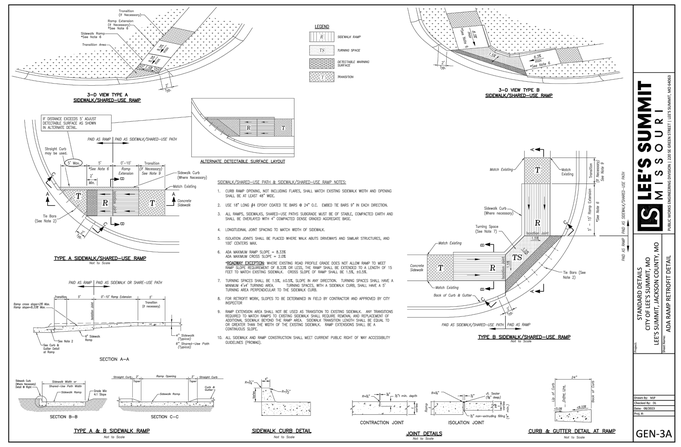
GENERAL NOTES

1. SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. ALL GRADE APPROACHES SHALL MEET CURRENT PUBLIC ROW OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT DETAIL GEN-3B, SIDEWALK/SHARED USE PATH RAMP AT DRIVEWAY DETAIL).
3. JOINT AT BACK OF CURB LINE SHALL BE AN ISOLATION JOINT FOR RESIDENTIAL DRIVEWAYS.
4. CONTROL JOINTS SHALL BE PLACED AT 10' O.C. MAXIMUM.
5. COMMERCIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, SHALL BE KCMMB 4K CONCRETE MIX.
6. RESIDENTIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, KCMMB 4K CONCRETE MIX IS RECOMMENDED. OTHER CONCRETE MIXES MAY BE USED WITH APPROVAL BY CITY.
7. A JOINT MUST BE INSTALLED AT THE RIGHT OF WAY BOUNDARY FOR PROPERTY DELINEATION.
8. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
9. THE PROPERTY OWNER, NOT THE CITY, IS RESPONSIBLE TO MAINTAIN ORIGINAL FLOWLINE OF CURB.
10. SIDEWALK ADJOINING CURB SHALL BE 6" THICK, EXTENDING 2' FROM THE DRIVEWAY.
11. THE MAXIMUM WIDTH OF A RESIDENTIAL DRIVEWAY IS 36 FEET WITHIN THE RIGHT OF WAY.

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
DRIVEWAY DETAIL

Drawn By: MJP
Checked By: DL
Date: 08/2023

GEN-1



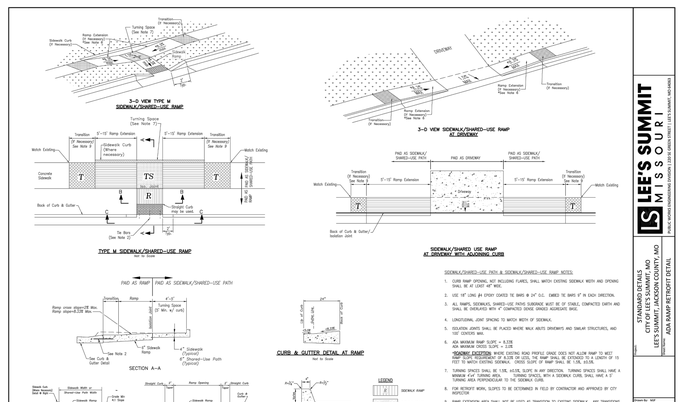
SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES:

1. CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
2. USE 18" LONG #4 STIRRUP DOWELS TIE BARS @ 24" O.C. EMBED TIE BARS 9" IN EACH DIRECTION.
3. ALL RAMPS, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
4. LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
5. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 100' CENTERS MAX.
6. ADA MAXIMUM RAMP SLOPE = 8.33$
ADA MAXIMUM CROSS SLOPE = 2.0$
*SIGNAGE EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33$ OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5$, MAX.
7. TURNING SPACES SHALL BE 5.0$, MIN. SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'-6" TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
8. FOR RETROFIT WORK, SLOPES TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY CITY INSPECTOR
9. RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMPS TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF SIDEWALK TO NEXT JOINT BEYOND RAMP. RAMP EXTENSION SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
10. ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
ADA RAMP RETROFIT DETAIL

Drawn By: MJP
Checked By: DL
Date: 08/2023

GEN-3A



SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES:

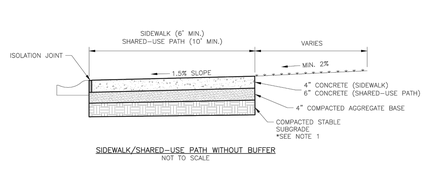
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6. ADA MAXIMUM RAMP SLOPE = 8.33$
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*SIGNAGE EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33$ OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5$, MAX.
7. TURNING SPACES SHALL BE 5.0$, MIN. SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'-6" TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
8. FOR RETROFIT WORK, SLOPES TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY CITY INSPECTOR
9. RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMPS TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF SIDEWALK TO NEXT JOINT BEYOND RAMP. RAMP EXTENSION SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
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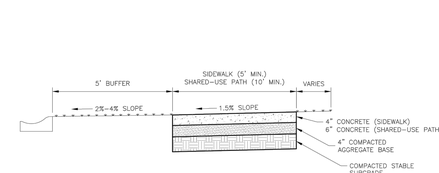
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
ADA RAMP RETROFIT DETAIL

Drawn By: MJP
Checked By: DL
Date: 08/2023

GEN-3B

3 RESERVED
NOT TO SCALE





GENERAL NOTES:

1. SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
3. KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS/SHARED-USE PATHS.
4. ALL SIDEWALK/SHARED-USE PATHS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
5. AN ISOLATION JOINT SHALL BE PLACED AT A MAXIMUM OF 100 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK/SHARED-USE PATHS, BUT NO GREATER THAN 10 FT.
6. AN ISOLATION JOINT SHALL BE PLACED WHERE THE SIDEWALK/SHARED-USE PATHS MEETS A RESIDENTIAL DRIVEWAY.
7. SHARED-USE PATHS WIDTH SHALL BE 10 FT. WIDE.
8. SIDEWALK/SHARED-USE PATHS FINISHING SHALL BE FULL BROOM FINISH OR AS DIRECTED BY CITY INSPECTOR.
9. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
SIDEWALK/SHARED-USE PATH DETAIL

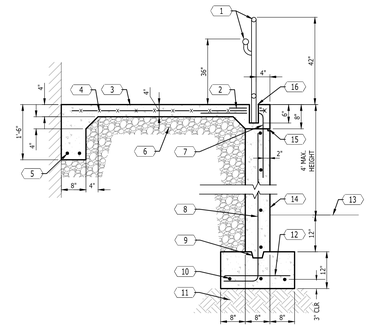
Date: 08/2023
Drawn By: MJP
Checked By: DL

GEN-2

1 ELEVATED WALK
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	GUARD RAIL AND HAND RAIL; REFER TO DETAILS
2	12" No. 4 HAIRPIN AT EACH POST
3	BROOM FINISH
4	6"X6", W2.9 X W2.9 W.W.F.
5	TWO No. 5 BARS
6	GRANULAR BACKFILL
7	No. 5 BARS "L", 24" APART; 24" HORIZ., 30" VERT.
8	No. 5 BARS 12" APART EACH WAY
9	2" X 4" KEY
10	THREE No. 5 BARS, CONT.
11	COMPACTED SUBGRADE
12	No. 4 BARS 12" APART
13	FINISH GRADE
14	RUBBED FINISH
15	3/4" x 3/4" REVEAL
16	2" DIA. SLEEVE IN WALL. GROUT POST IN PLACE.

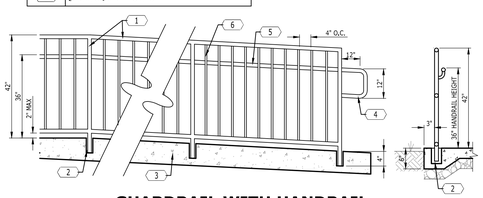
NOTE:
USE 3500 PSI CONCRETE AND ASTM GRADE 60 STEEL BARS.



KEYNOTES	
CODE	DESCRIPTION
1	1-½" O.D. STEEL PIPE RAIL AND POSTS (TYP)
2	2" DIA. PIPE SLEEVE, CAST IN PLACE. GROUT RAIL POST.
3	CONC. WALK OR RAMP
4	3"R MIN
5	HANDRAIL, 1-½" DIA. STEEL PIPE
6	¼" DIA. SQUARE PICKETS

NOTES:

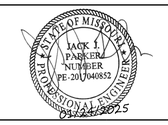
1. PROVIDE 3'-6" HIGH 1-1/2" O.D. GUARD RAIL AT ELEVATION DROPS 30" OR GREATER. MAXIMUM VERTICAL PICKET SPACING SHALL BE 4", ON CENTER.
2. VARIATIONS IN GUARD RAIL HEIGHT SHALL NOT BE ALLOWED.
3. MAXIMUM CLEARANCE BETWEEN BOTTOM RAIL AND CONCRETE SHALL BE 2". GUARD RAIL SHALL BE SMOOTH-FINISHED, ALL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



2 GUARDRAIL WITH HANDRAIL
NOT TO SCALE

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Catalyst DESIGN GROUP
1524 WILLIAMS DRIVE, SUITE 201, MURFREESBORO, TN 37129
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HCA - LEE'S SUMMIT
MEDICAL CENTER
2100 SE BLUE PKWY
LEE'S SUMMIT, MO 64063

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

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

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

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

REVISIONS		
REV #	DESCRIPTION	DATE

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION	2025/02/06

DRAWING TITLE
SITE DETAILS

PROJECT NUMBER
20240037

DRAWING NUMBER
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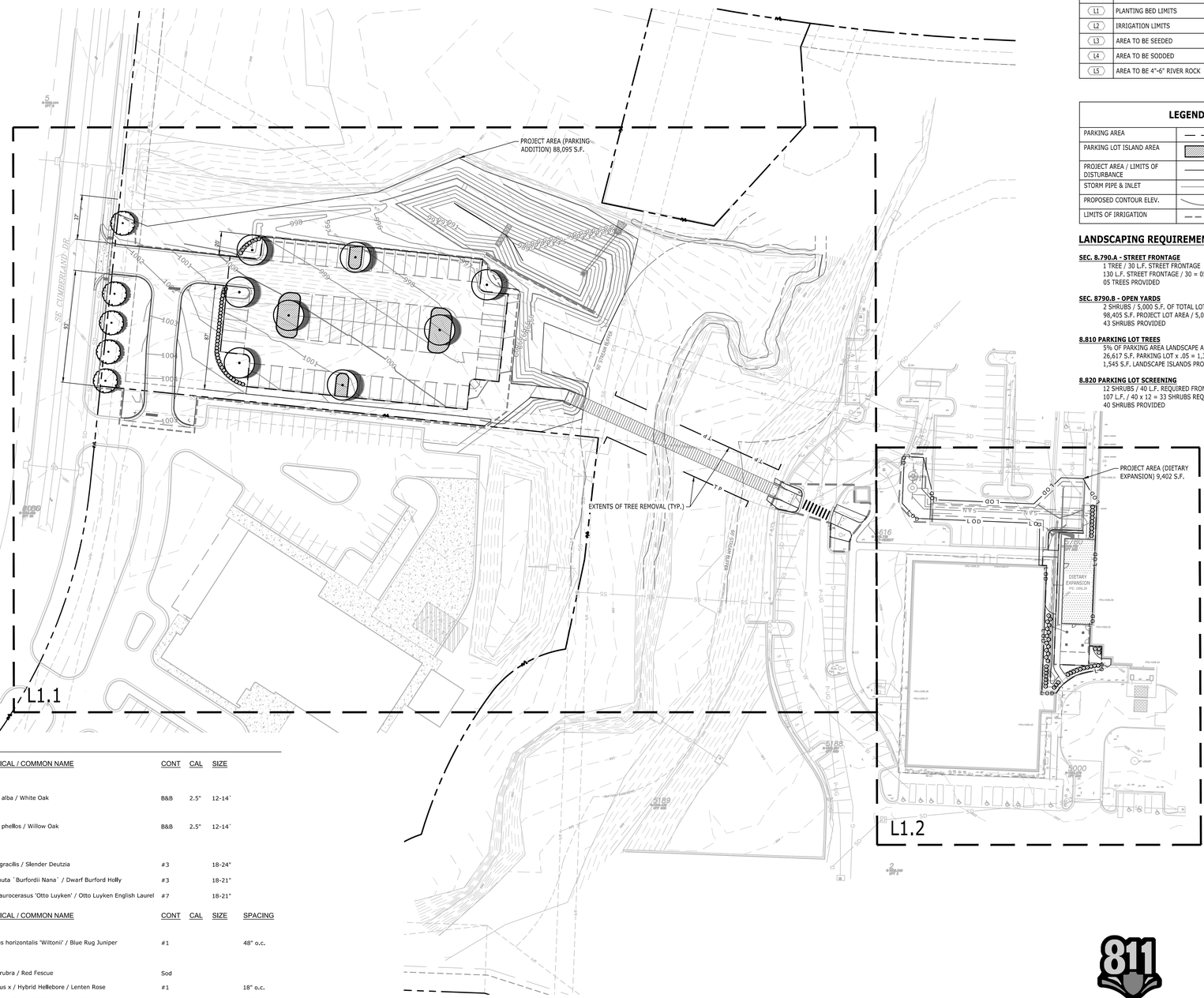
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DRAWN: AP
REVIEWED: WB
JOB NUMBER: 6406.24

SITE DETAILS

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LANDSCAPE KEYNOTES

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

LEGEND

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

LANDSCAPING REQUIREMENTS

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

SEC. 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

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
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.

811 Know what's below. Call before you dig.

N

0 20 40 80 120
GRAPHIC SCALE

P:\20241\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\20240037_LAN.dwg>L1.0 OVERALL LANDSCAPE PLAN Jan 24, 2025 wblissard

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

STATE OF MISSOURI
TIMOTHY J. BLISSARD
2007013279
LANDSCAPE ARCHITECT
02/24/2025

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

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

NO.	DATE	DESCRIPTION
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REVISIONS		
REV #	DESCRIPTION	DATE

DRAWING TITLE
OVERALL LANDSCAPE PLAN

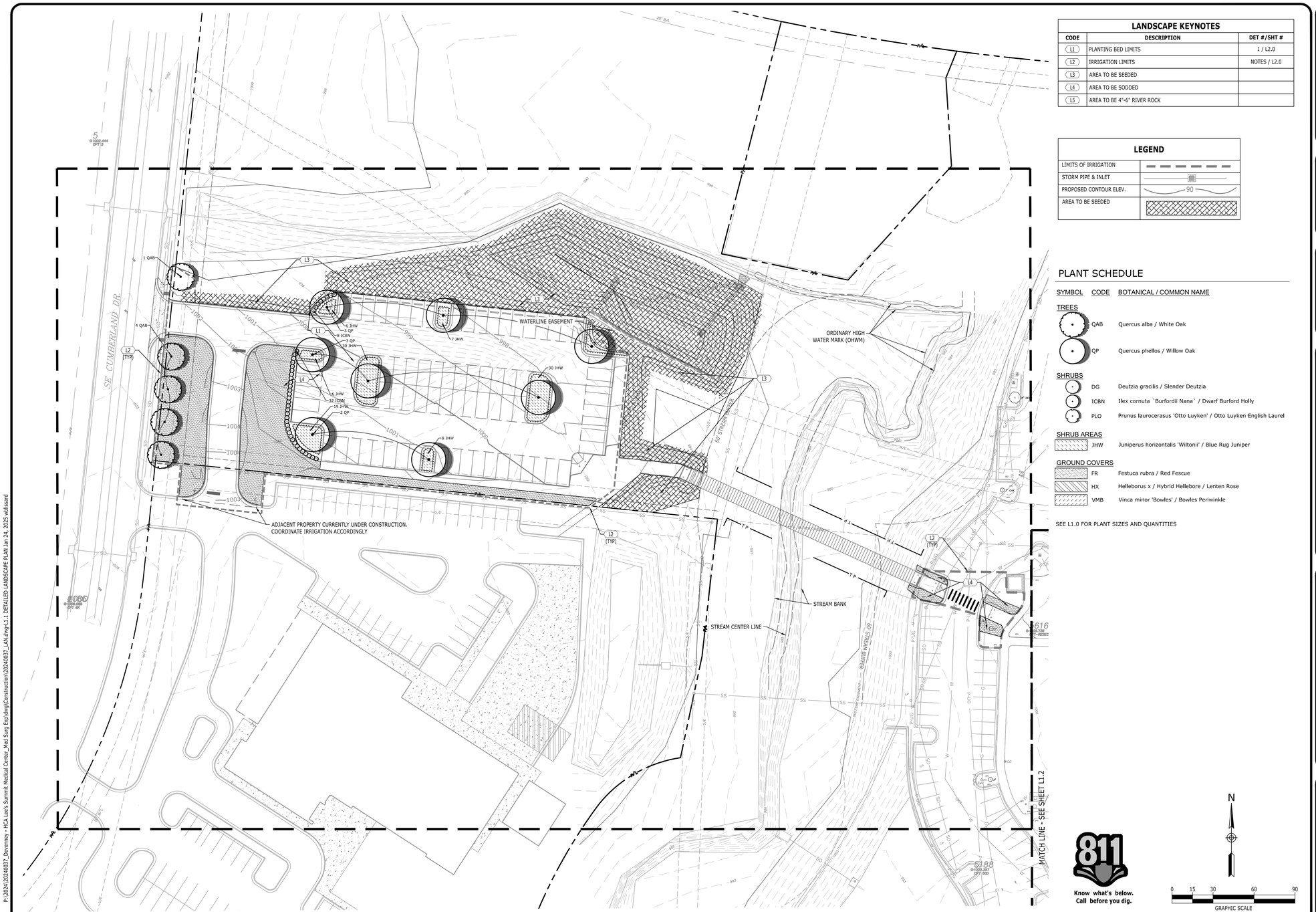
PROJECT NUMBER
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DRAWN:	AP
REVIEWED:	WB
JOB NUMBER:	6406.24

OVERALL LANDSCAPE PLAN

L1.0



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.	90
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

Know what's below. Call before you dig.

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GRAPHIC SCALE

P:\20241\20240037_Devenney - HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\20240037_LAN.dwg>L1.1 DETAILED LANDSCAPE PLAN Jan 24, 2025 wblissard

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STATE OF MISSOURI
WILLIAM BLISSARD
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LANDSCAPE ARCHITECT
01/24/2025

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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

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

NO.	DESCRIPTION	DATE
1	DESIGN COORDINATION	2025/02/06

REVISIONS		
REV #	DESCRIPTION	DATE

DRAWING TITLE
DETAILED LANDSCAPE PLAN

PROJECT NUMBER
20240037

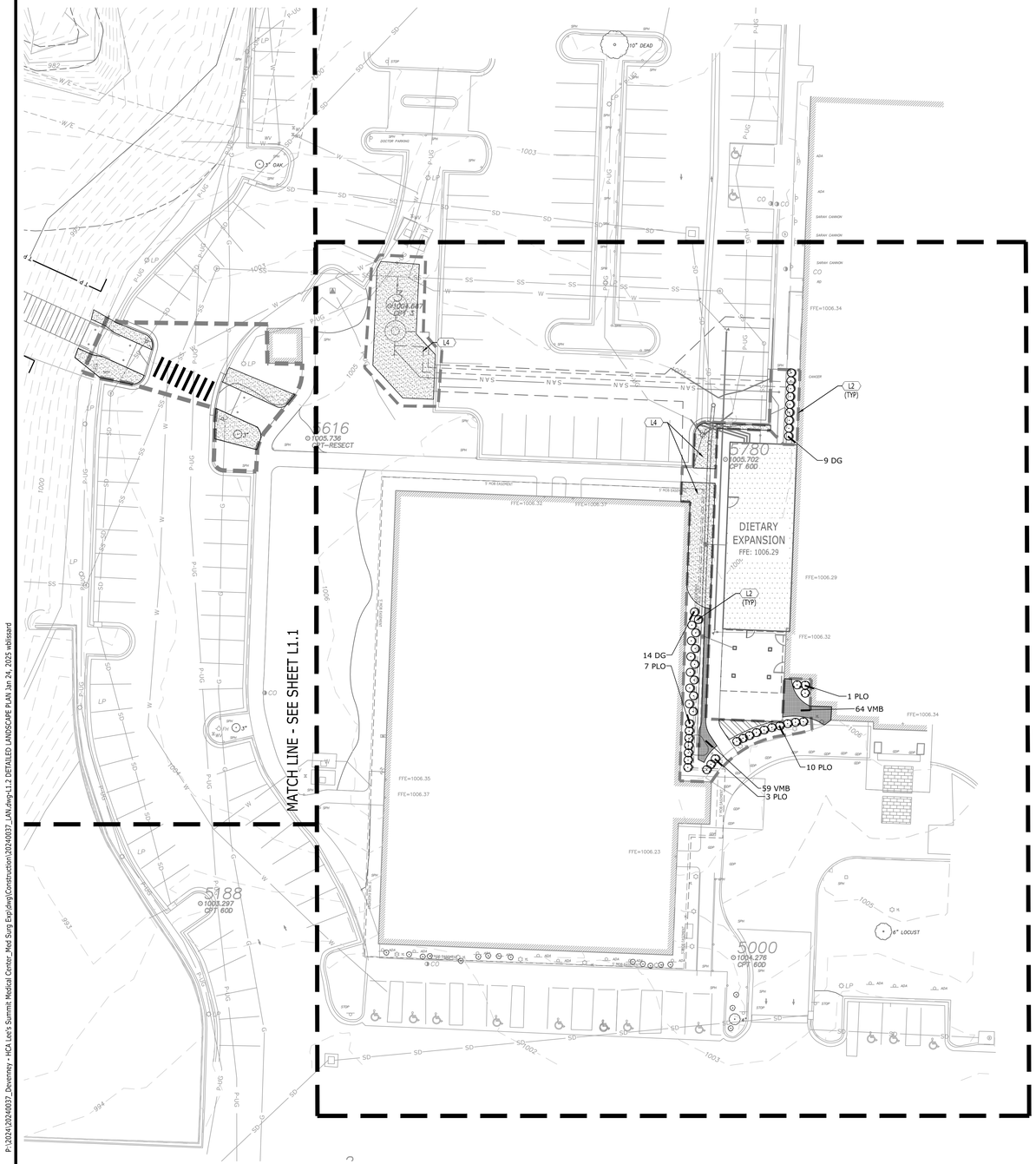
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L1.1

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

DETAILED LANDSCAPE PLAN

L1.1

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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.	90

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

811 Know what's below. Call before you dig.

N

0 10 20 40 60
GRAPHIC SCALE

Devenney GROUP
Devenney Group Ltd., Architects
6900 East Camelback Road
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Scottsdale, AZ 85251
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Consultant:
Catalyst DESIGN GROUP
1524 WILLIAMS DRIVE, SUITE 201, MURFREESBORO, TN 37129
(615) 622-7200 | WWW.CATALYST-DG.COM

STATE OF MISSOURI — JEFFREY D. MAUK — NUMBER 2007013279 — LANDSCAPE ARCHITECT — 01/24/2025

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DETAILED LANDSCAPE PLAN

PROJECT NUMBER
20240037

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L1.2

DATE:	2024/12/05
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REVIEWED:	WB
JOB NUMBER:	6406.24

DETAILED LANDSCAPE PLAN

L1.2

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6/10/2024 9:05:24 PM Autodesk Docs://6406.24.0001 - HCA - LSMC MedSurg Expansion_rvt23/6406.24.0001 HCA - LSMC Med Surge Expansion.rvt

PLANTING NOTES

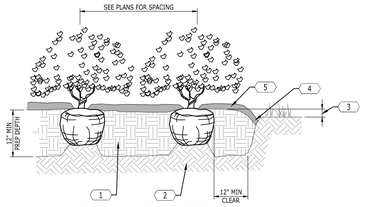
1. BASE INFORMATION WAS TAKEN FROM A SURVEY PREPARED BY LOVELACE & ASSOCIATES, LLC DATED 05/01/2024. CATALYST DESIGN GROUP AND ANY OF THEIR CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY AND/OR COMPLETENESS OF THAT INFORMATION SHOWN HEREON OR ANY ERRORS OR OMISSIONS RESULTING FROM SUCH.
2. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO CONFIRM ALL MATERIAL QUANTITIES. IN THE EVENT OF A DISCREPANCY, THE QUANTITIES SHOWN ON THE PLAN SHALL TAKE PRECEDENCE OVER THE MATERIAL SCHEDULE.
3. NO SUBSTITUTIONS AS TO TYPE, SIZE, OR SPACING OF PLANT MATERIALS SPECIFIED ON THIS PLAN MAY BE MADE WITHOUT THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
4. THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN, REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
5. ALL PLANTING BEDS TO RECEIVE "CHANCELLOR" HARDWOOD MULCH. MULCH TO BE INSTALLED TO 3" DEPTH UNLESS OTHERWISE INDICATED ON THE PLANTING DETAILS.
6. NEW TREE PLANTINGS TO BE STAKED PER PLANTING DETAILS
7. DIMENSIONS LISTED FOR HEIGHTS, SPREAD AND TRUNK SPECIFICATIONS ON THE PLANT MATERIAL SCHEDULE ARE GENERAL GUIDE FOR THE MINIMUM REQUIRED SIZE OF EACH PLANT.
8. PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANTING BEDS IMMEDIATELY PRIOR TO PLACEMENT OF MULCH FOR WEED CONTROL.
9. ALL DISTURBED AREAS OF THE SITE ARE TO BE SEEDED AND/OR SODDED IN ACCORDANCE WITH THE SPECIFICATIONS.
10. NO EXCAVATION OR PLANTING PIT SHALL BE LEFT OPEN OVERNIGHT.
11. THE LANDSCAPE CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS, LICENSES, ETC. AND SHALL GIVE ALL NOTICES AND COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, CODES, RULES AND REGULATIONS DURING THE COURSE OF THE INSTALLATION OF THIS PROJECT.
12. ALL PLANT MATERIALS TO BE NURSERY GROWN AND TO COMPLY WITH THE AMERICAN STANDARD FOR NURSERY STOCK FOR SIZE AND QUALITY.
13. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REFUSE ANY PLANT MATERIAL OR ANY DEFECTIVE WORKMANSHIP.
14. ALL PLANTS SHALL HAVE A WELL-FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAMAGED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.
15. MEASUREMENT OF CONIFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY PERCENT (50%) OF THIS YEARS VERTICAL GROWTH (TOP CANDLE).
16. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS ON THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION ON VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER PRIOR TO OPENING ANY PLANT PITS.
17. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE CONTRACTOR SHALL FILL THE BOTTOM OF SELECTED HOLES WITH SIX INCHES OF WATER. THIS WATER SHOULD PERCOLATE OUT WITHIN A 24-HOUR PERIOD. THE OWNER OR LANDSCAPE ARCHITECT SHALL VERIFY ACCURACY AND EFFECT OF PERCOLATION TESTING. IF THE SOIL AT A GIVEN AREA DOES NOT DRAIN PROPERLY, A P V C DRAIN OR GRAVEL SUMP SHALL BE INSTALLED OR THE PLANTING RELOCATED.
18. SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR OTHER SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PAN, STEAM OF OTHER UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE LANDSCAPE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS, OTHERWISE THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.
19. NO MATERIAL SHALL BE PLANTED BEFORE FINISH GRADING HAS BEEN COMPLETED.
20. EXISTING TREES TO BE PRESERVED ARE TO BE BARRICADED BEFORE BEGINNING CONSTRUCTION. IN ACCORDANCE WITH THE TREE PRESERVATION NOTES AND DETAILS ON THE LANDSCAPE PLAN.
21. SELECTIVE CLEARING CONSISTING OF REMOVAL OF VINES, SAPLINGS UNDER 1" DIAMETER AND UNDERBRUSH SHALL BE PERFORMED IN TREE PRESERVATION AREAS INTERNAL TO THE PROJECT AND NOTED ON PLANS.
22. PLANTS IDENTIFIED IN ALTERNATE AREAS ARE TO BE BID SEPARATELY.
23. ALL BEDS ARE TO BE TILLED TO A DEPTH OF 8" WITH THE ADDITION OF: (1) 6 CU. FT. BALE OR SPHAGNUM PEAT MOSS PER 40 SQ. FT. OF BED AREA: (25#) 10-10-10 FERTILIZER PER 1000 SQ. FT. IF AZALEAS, RHODODENDRONS OR PIERIS ARE USED, ADD 1 3 CU. FT. FINELY GROUND "PINE" BARK MULCH PER 25 SQ. FT. OF BED AREA. ALL ADDITIONS ARE TO BE SPREAD AND TILLED INTO THE SOIL UNIFORMLY.
24. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT WHEN THE PLANT MATERIALS ARE AVAILABLE AT THE JOB SITE FOR REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

IRRIGATION NOTES

1. LANDSCAPE CONTRACTOR TO PROVIDE IRRIGATION SYSTEM ON A DESIGN/BUILD ARRANGEMENT FOR AREA NOTED ON THE PLAN. CONTRACTOR TO PREPARE DESIGN DRAWINGS IN ACCORDANCE WITH PERFORMANCE SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL AND SUBMIT SAME FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO CONFIRM ADEQUATE PRESSURE EXISTS TO OPERATE SYSTEM PRIOR TO INSTALLATION.
3. IRRIGATION SPRINKLER HEADS SHALL BE MANUFACTURED BY EITHER TORO OR RAINBIRD. IRRIGATION CONTROLLER SHALL BE TORO VISION II MODEL OR APPROVED EQUAL.
4. MAIN LINE TO BE CLASS 200 PVC PIPE. LATERAL LINES TO BE CLASS 150 PVC.
5. IRRIGATION SYSTEM TO BE OPERATIONAL BEFORE PLANTING MATERIALS MAY BE INSTALLED IN PLANTING BEDS.
6. INSTALL SPRINKLER HEADS ACCORDING TO MANUFACTURERS SPECIFICATIONS. FLUSH ALL LINES BEFORE INSTALLING NOZZLES.
7. WIRE CONNECTIONS TO BE MADE BY USING RAINBIRD MODEL ST-103/PT-ST SNAP-TITE CONNECTIONS.
8. LEAVE 18 INCHES OF ADDITIONAL WIRE AT EACH VALVE LOCATION. ROLL WIRE INTO COIL AT EACH LOCATION.
9. ALL VALVES SHALL BE LOCATED IN AMATEX 10 INCH CIRCULAR VALVE BOXES WITH COVER, OR EQUAL.
10. IRRIGATION CONTRACTOR TO COORDINATE PLACEMENT OF REQUIRED SLEEVES WITH GENERAL CONTRACTOR PRIOR TO PAVING AND CONCRETE INSTALLATION BEING COMPLETED.

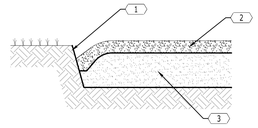
KEYNOTES	
CODE	DESCRIPTION
1	PLANTING MIX AS SPECIFIED
2	UNDISTURBED SUBGRADE. PROVIDE SUBGRADE PEDESTAL FOR EACH SHRUB INSTALLED, TO AVOID SETTLEMENT.
3	TOP OF ROOT BALL TO BE 1"-2" HIGHER THAN THE ADJACENT GRADE
4	"V" TRENCH AROUND PLANTING BED
5	3" HARDWOOD MULCH LAYER. CLEAR MULCH FROM WOODY SHRUB STEMS TO PREVENT FUNGAL GROWTH AND DECAY.

NOTES
1. TAMP PLANTING MIX AS PIT IS FILLED AROUND EACH PLANT BALL.
2. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER PLANTING.
3. SCARIFY THE ROOT BALL IF ROOT-BOUND IN ITS CONTAINER.
4. WHERE SHRUBS APPEAR IN BED AREAS, 3" OF MULCH SHALL BE SPREAD OVER THE ENTIRE AREA WITHIN THE BED EDGE AS INDICATED ON THE PLANS.
5. DO NOT PRUNE BEFORE ACCEPTANCE.
6. REMOVE BURLAP FROM TOP THIRD OF ROOT BALL OR CAREFULLY REMOVE THE PLASTIC CONTAINER, IF ONE IS USED.
7. BACKFILL WITH SOIL MIXTURE AS FOLLOWS: 1 PART COMPOSTED GARDEN SOIL; 1 PART SAND AND 2 PARTS NATIVE TOPSOIL.



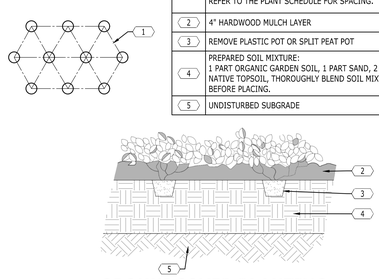
3 **SHRUB PLANTING**
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	EDGE OF LAWN OR PAVEMENT. REFER TO GRADING PLANS FOR FINISH GRADE ELEVATION.
2	3" DEEP MULCH LAYER
3	BACKFILL WITH SOIL MIXTURE: 1 PART COMPOSTED GARDEN SOIL 1 PART SAND 2 PARTS NATIVE TOPSOIL



1 **SPADED BED EDGE**
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	ALL GROUNDCOVER BEDS SHALL BE PLANTED USING TRIANGULAR SPACING, UNLESS SHOWN OTHERWISE. REFER TO THE PLANT SCHEDULE FOR SPACING.
2	4" HARDWOOD MULCH LAYER
3	REMOVE PLASTIC POT OR SPLIT PEAT POT
4	PREPARED SOIL MIXTURE: 1 PART ORGANIC GARDEN SOIL, 1 PART SAND, 2 PARTS NATIVE TOPSOIL, THOROUGHLY BLEND SOIL MIXTURE BEFORE PLACING.
5	UNDISTURBED SUBGRADE



4 **GROUNDCOVER PLANTING**
NOT TO SCALE

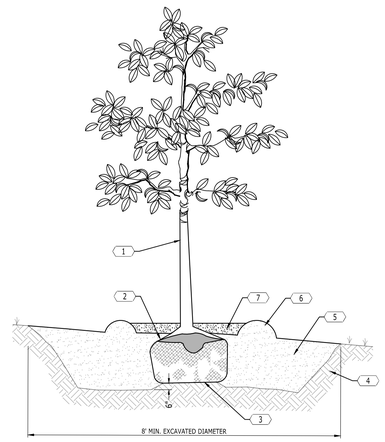
KEYNOTES	
CODE	DESCRIPTION
1	CLEAR TRUNK TO HEIGHT SPECIFIED
2	FOLD DOWN OR CUT AND REMOVE THE TOP THIRD OF THE BURLAP. REMOVE NON-BIODEGRADABLE WRAP COMPLETELY. REMOVE WIRE BASKET.
3	PLACE ROOT BALL ON UNDISTURBED SOIL
4	UNDISTURBED SUBGRADE
5	BACKFILL EXCAVATION WITH TOP 8" REMOVED DURING PIT EXCAVATION
6	SOIL RING 4" HIGH AROUND TREE. MINIMUM 3' RADIUS AROUND TRUNK.
7	3" DEEP MULCH IN SOIL RING AREA

NOTES:
1. SCARIFY THE EDGES OF THE EXCAVATED PIT AND TAKE ALL NECESSARY MEASURES TO ASSURE ADEQUATE DRAINAGE.

2. TO ENSURE SUCCESSFUL ESTABLISHMENT OF ALL TREES PLANTED OUTSIDE THE LIMITS OF IRRIGATION EVERY SUCH TREE SHALL BE FITTED WITH A SLOW-RELEASE WATERING SYSTEM SUCH AS "TREEGATOR BAGS" OR AN APPROVED EQUAL.

3. AS PART OF THE MAINTENANCE PLAN IT IS RECOMMENDED THAT ALL TREES OUTSIDE THE LIMITS OF IRRIGATION BE WATERED A MAXIMUM OF TWO TIMES PER WEEK DURING DRY SEASONS AND ONE TIME PER WEEK DURING WET SEASONS FOR A MINIMUM OF TWO YEARS FROM THE DATE OF INSTALLATION.

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



2 **CANOPY TREE PLANTING**
NOT TO SCALE

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STATE OF MISSOURI
MICHAEL D. MAYER
2007013279
LANDSCAPE ARCHITECT
07/31/2025

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LEE'S SUMMIT, MO 64063

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MISSOURI DHSS

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DRAWING TITLE
LANDSCAPE DETAILS

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DRAWING NUMBER
L2.0

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LANDSCAPE DETAILS

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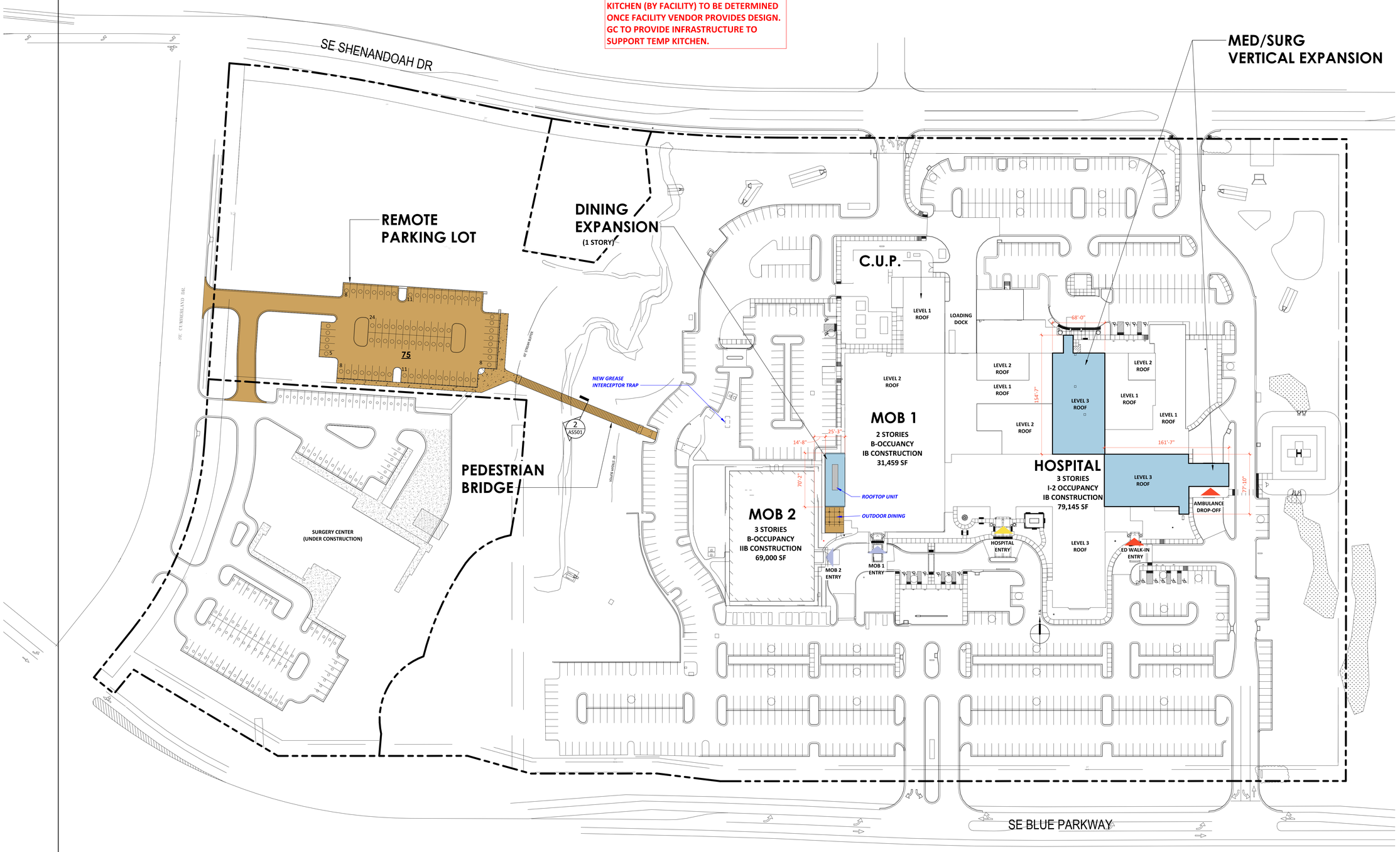
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REFER TO CIVIL DRAWINGS FOR PARKING SUMMARY.

***NOTE: LOCATION OF TEMPORARY KITCHEN (BY FACILITY) TO BE DETERMINED ONCE FACILITY VENDOR PROVIDES DESIGN. GC TO PROVIDE INFRASTRUCTURE TO SUPPORT TEMP KITCHEN.**



1 ARCHITECTURAL SITE PLAN
1" = 50'-0"

Devenney GROUP

Devenney Group Ltd., Architects

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Consultant:

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2021002549

DATE SIGNED: 12.05.24

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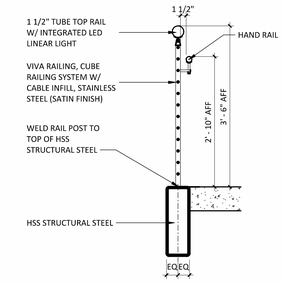
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ARCHITECTURAL SITE PLAN

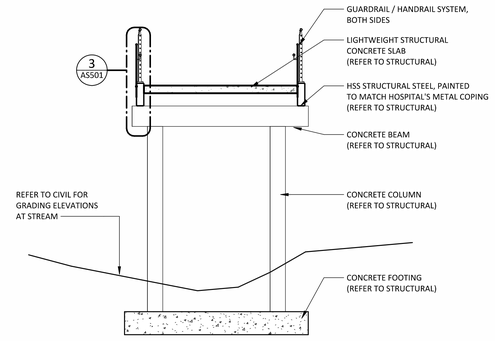
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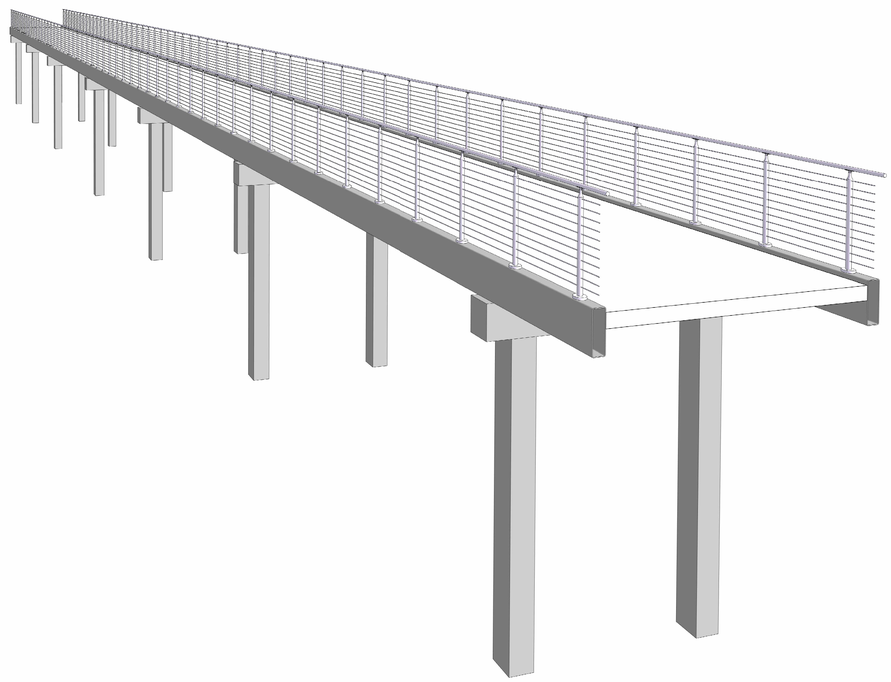
3 GUARDRAIL/HANDRAIL SECTION AT BRIDGE

3/4" = 1'-0"



2 PEDESTRIAN BRIDGE SECTION

1/4" = 1'-0"



1 PEDESTRIAN BRIDGE

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Consultant:

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2021002549

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MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

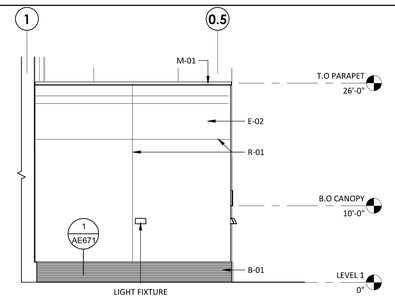
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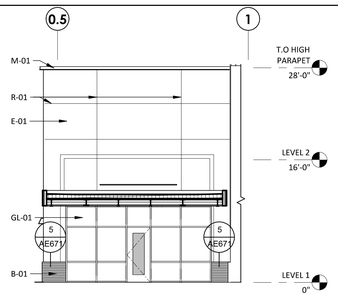
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AS501

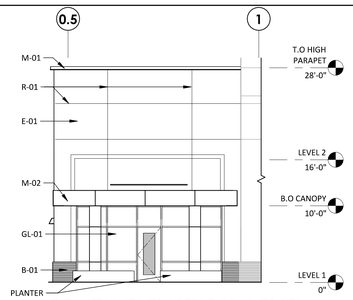
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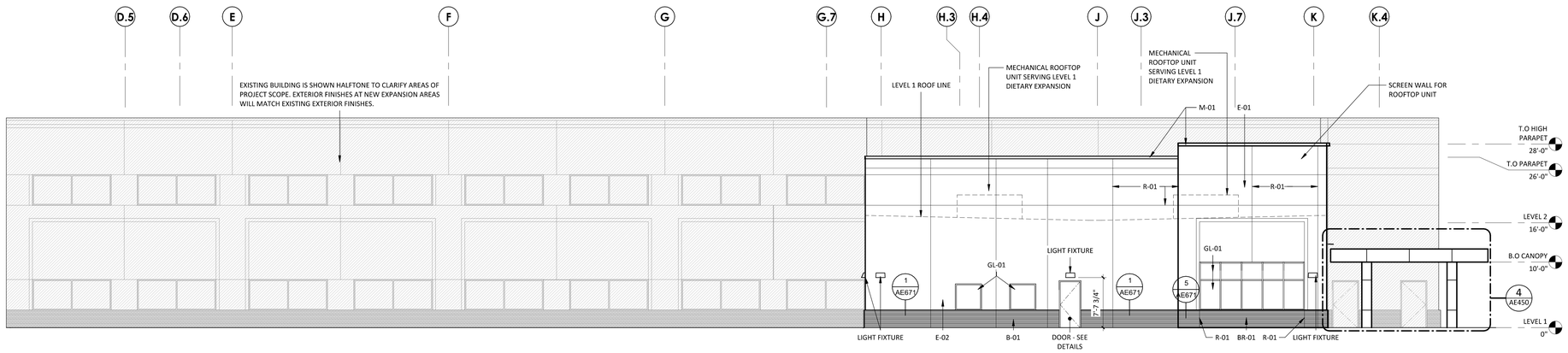
1 NORTH ELEVATION - LEVEL 1 - DIETARY.
1/8" = 1'-0"



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



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



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



6 DIETARY EXPANSION - WEST VIEW



5 OUTDOOR DINING VIEW

MATERIAL LEGEND

GL-01
PRODUCT: VISION INSULATED GLAZING UNIT
MFR: TBD
FINISH: MATCH EXISTING

GL-02
PRODUCT: SPANDREL INSULATED GLAZING UNIT
MFR: TBD
FINISH: MATCH EXISTING

E-01
PRODUCT: EXTERIOR INSULATION FINISH SYSTEM COLOR 1
MFR: TBD
FINISH: MATCH EXISTING

E-02
PRODUCT: EXTERIOR INSULATION FINISH SYSTEM COLOR 2
MFR: TBD
FINISH: MATCH EXISTING

B-01
PRODUCT: THIN BRICK VENEER
MFR: TBD
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M-01
PRODUCT: PREFINISHED METAL COPING
MFR: TBD
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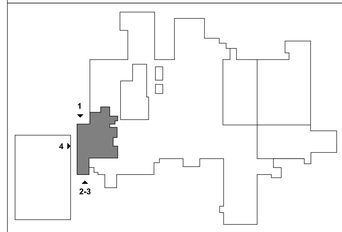
M-02
PRODUCT: METAL CANOPY
MFR: TBD
FINISH: MATCH EXISTING

R-01
PRODUCT: EIFS REVEAL
MFR: TBD
FINISH: MATCH EXISTING

PJ-01
PRODUCT: PRE-FAB EIFS PANEL JOINT
MFR: TBD
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VC
PRODUCT: VISION CONTROL UNIT
MFR: WINDOW ACCESSORY COMPANY INC (MATCH EXISTING PRODUCT)
FINISH: MATCH EXISTING

KEYPLAN



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Consultant:

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2021002549
DATE SIGNED: 12.05.24

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MED SURG & DIETARY EXPANSION

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

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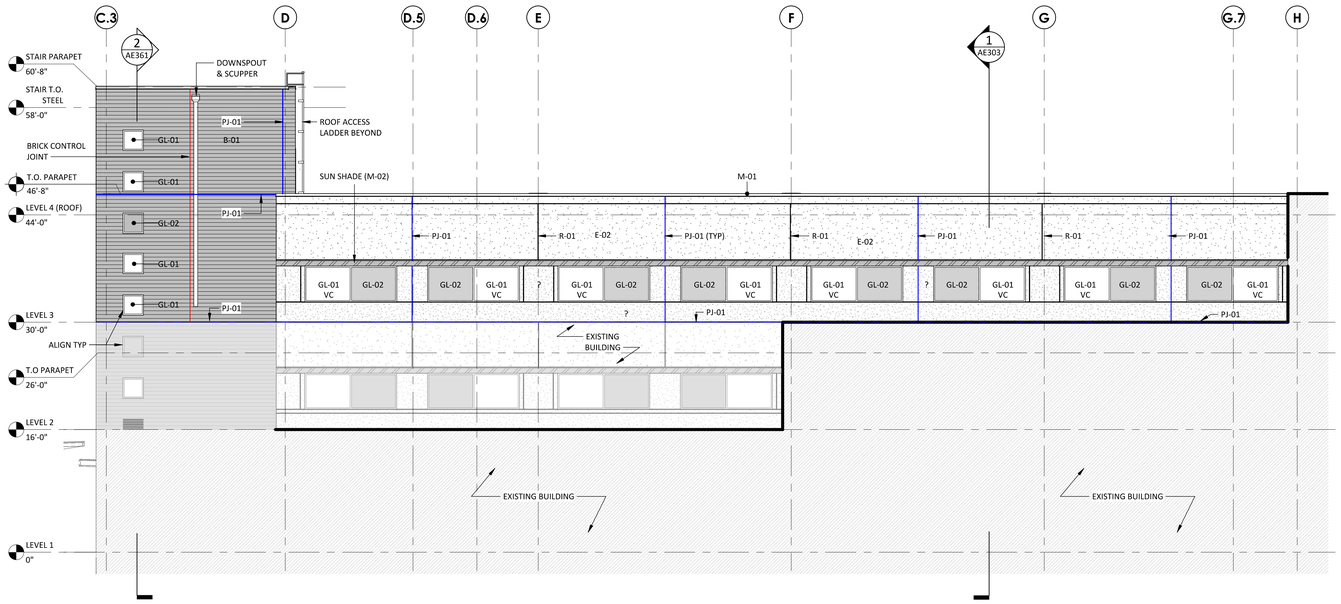
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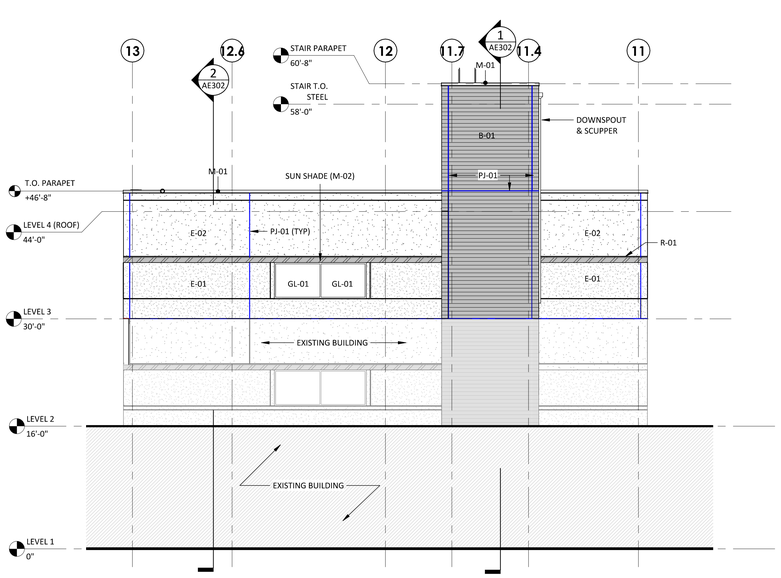
EXTERIOR BUILDING ELEVATIONS - DIETARY

AE201

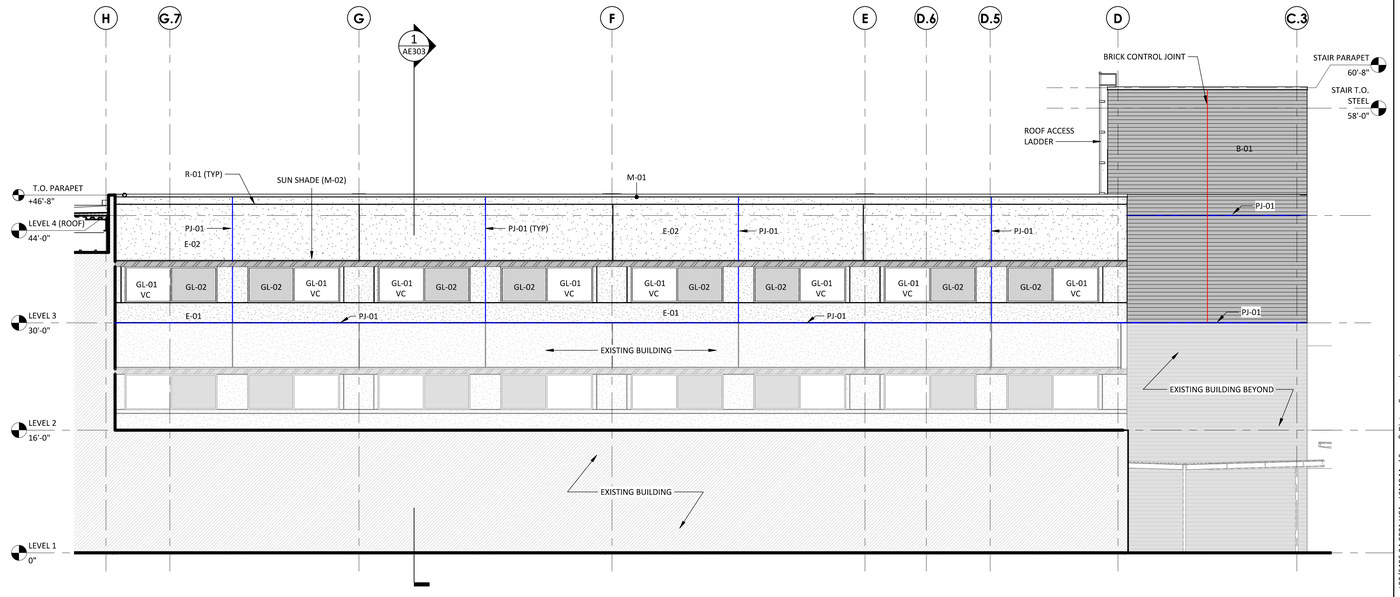
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1 WEST ELEVATION - MED SURG (16-BED UNIT)
1/8" = 1'-0"



2 NORTH ELEVATION - MED SURG (16-BED UNIT)
1/8" = 1'-0"



3 EAST ELEVATION - MED SURG (16-BED UNIT)
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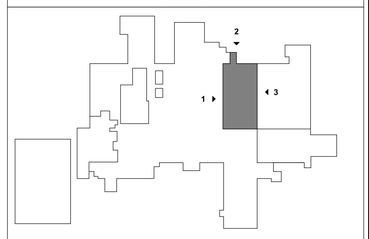
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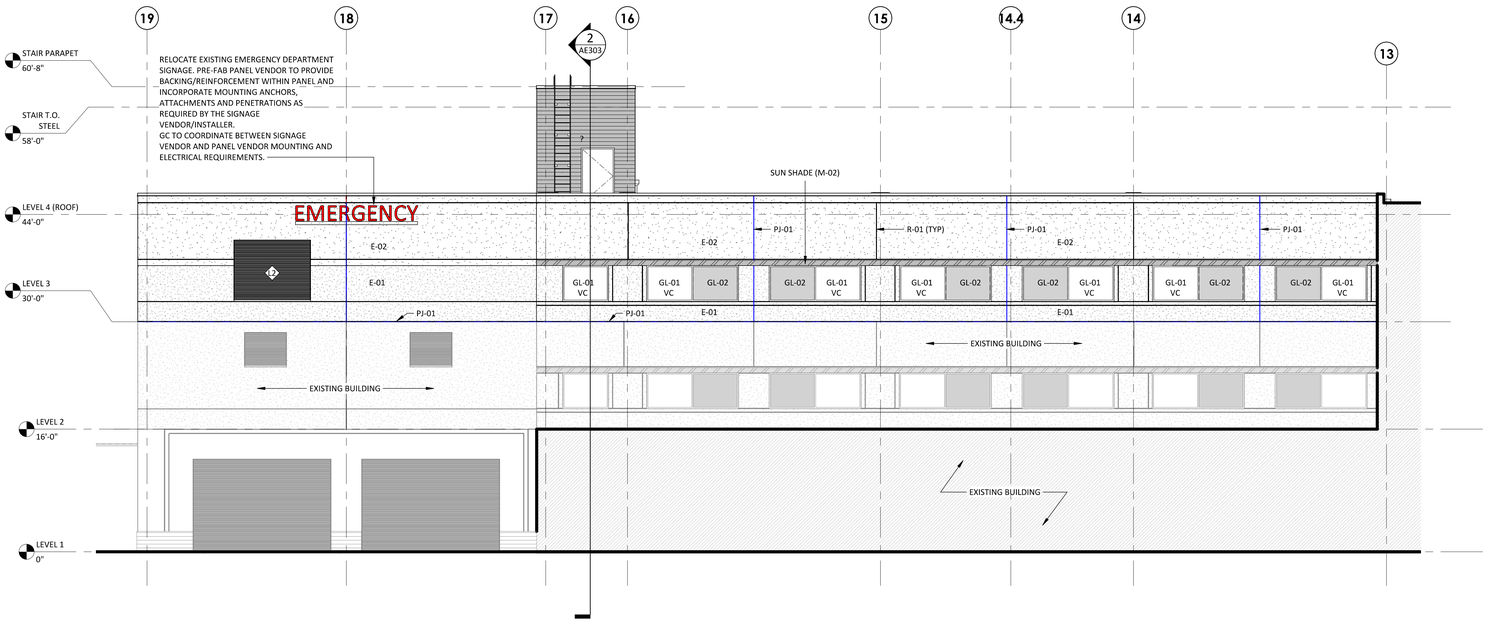
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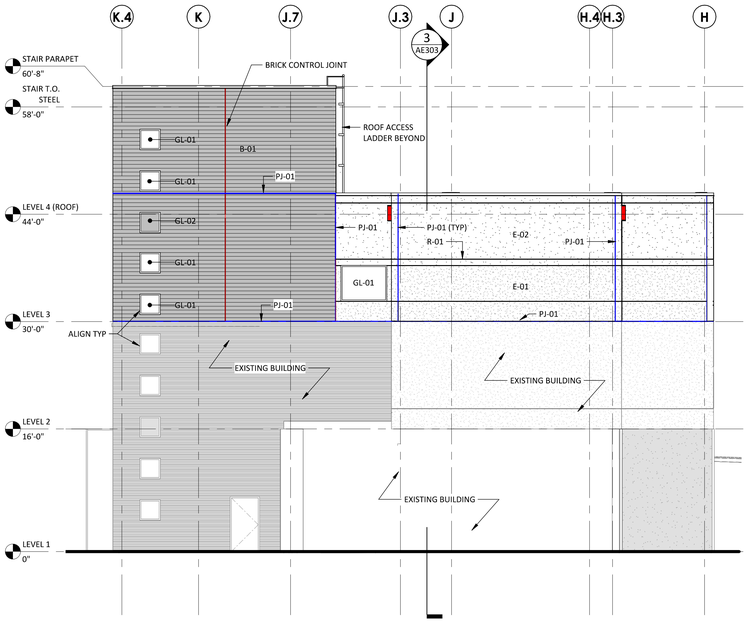
EXTERIOR BUILDING ELEVATIONS - MED/SURG

AE202

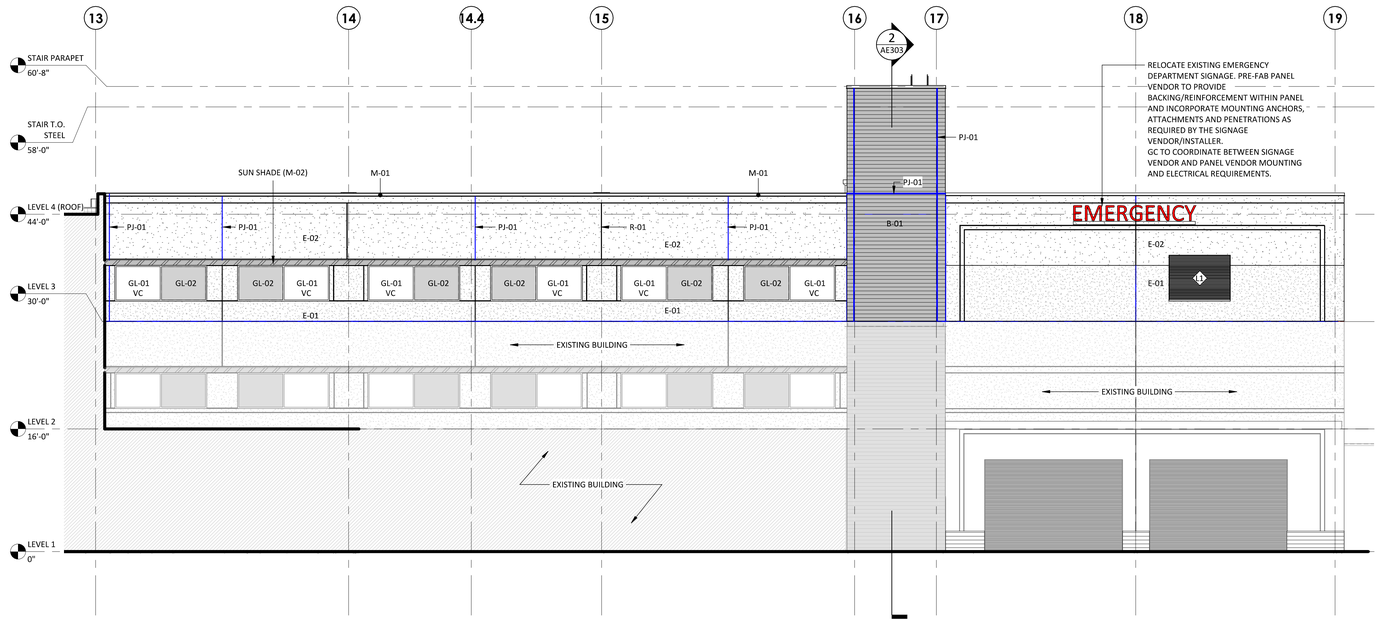
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2 EAST ELEVATION - MED SURG (12-BED UNIT)
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3 SOUTH ELEVATION - MED SURG (12-BED UNIT)
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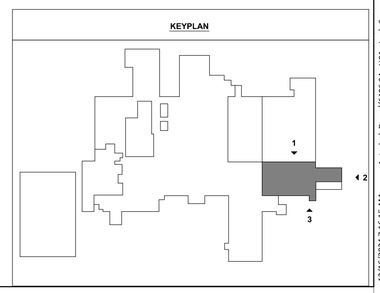
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MED SURG & DIETARY EXPANSION

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MEDICAL CENTER
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LEE'S SUMMIT, MO 64063

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EXTERIOR BUILDING ELEVATIONS - MED/SURG

AE203

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STRUCTURAL NOTES

A. GENERAL

1. 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 ENGINEER'S 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.
2. 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.
3. 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.
4. 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.
5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
6. 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.
7. CONTRACTOR SHALL OBTAIN AND COORDINATE EDGE OF SLAB DIMENSIONS, OPENING LOCATIONS AND DIMENSIONS, DEPRESSED SLAB LOCATIONS AND EXTENTS, SLAB SLOPES, CURB LOCATIONS, AND CMU WALL LOCATIONS. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION.
8. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.
9. CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS. CONTRACTOR SHALL VERIFY EQUIPMENT WEIGHTS, REQUIRED OPENING SIZES AND LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS ARE IN AGREEMENT WITH FINAL ARCHITECTURAL AND MECHANICAL SHOP DRAWINGS AND SUBMITTALS.
10. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
11. 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 CONSTRUCTABILITY ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSEWORK, TEMPORARY BRACING, ETC.
12. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
13. 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.
14. 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.
15. 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.
16. THE OWNER SHALL ESTABLISH A PERIODIC MAINTENANCE PROGRAM TO PROTECT THE STRUCTURE FROM DETERIORATION. 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
17. THE USE OF STRUCTURAL BIM OR CAD FILES IS PROHIBITED WITHOUT WRITTEN CONSENT FROM THE STRUCTURAL ENGINEER.

B. CODE/DESIGN CRITERIA

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

HOSPITAL FLOORS	80	PSF	(INCLUDES PARTITIONS)
CORRIDORS — FIRST FLOOR	100	PSF	
CORRIDORS — ABOVE FIRST FLOOR	80	PSF	
KITCHEN	125	PSF	
MECHANICAL ROOMS	150	PSF	(NON-REDUCIBLE)
STAIRS	100	PSF	
STORAGE	125	PSF	(NON-REDUCIBLE)
PEDESTRIAN BRIDGE	90	PSF	(NON-REDUCIBLE)

    2.2. UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

ROOF	20	PSF
SNOW (HOSPITAL)		
GROUND SNOW LOAD, p_g	20	PSF
SNOW EXPOSURE FACTOR, C_e	1.0	
SNOW THERMAL FACTOR, C_t	1.0	
SNOW IMPORTANCE FACTOR, I_S	1.2	
FLAT ROOF SNOW LOAD, p_f	16.8	PSF
SLOPE FACTOR, C_s	1.0	
DRIFT SURCHARGE LOAD(S), p_d		SEE SNOW LOADING PLAN
WIDTH OF SNOW DRIFT(S), w		SEE SNOW LOADING PLAN
SNOW (PEDESTRIAN BRIDGE)		
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	9.34	IN/HR (HOSPITAL)
	7.48	IN/HR (PEDESTRIAN BRIDGE)

    PONDING AND DRIFT EFFECTS HAVE BEEN INCLUDED IN THE DESIGN.

    2.3. CONCENTRATED FLOOR LOADS - DISTRIBUTED OVER AN AREA OF 2.5 FT², UNLESS NOTED OTHERWISE:

HOSPITAL	1,000	LB
PEDESTRIAN BRIDGE	2,000	LB

    2.4. DEAD LOADS (IN ADDITION TO STRUCTURE SELF-WEIGHT):

ROOF:	ROOFING AND INSULATION	15	PSF

3. HOSPITAL WIND LOADS:

BASIC DESIGN WIND SPEED, V	122	MPH
ALLOWABLE STRESS DESIGN WIND SPEED, V_{asd}	95	MPH
EXPOSURE	C	
RISK CATEGORY	IV	
INTERNAL PRESSURE COEFFICIENT, GC_{pi}	± 0.18	

4. PEDESTRIAN BRIDGE 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, GC_{pi}	± 0.0	

5. HOSPITAL EARTHQUAKE LOADS:

RISK CATEGORY	IV
SEISMIC IMPORTANCE FACTOR, I_e	1.5
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:	
S_S	0.101 g
S_1	0.069 g
SITE CLASS	B
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:	
S_{DS}	0.067 g
S_{D1}	0.046 g
SEISMIC DESIGN CATEGORY	A
BASIC SEISMIC-FORCE-RESISTING SYSTEM: STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE	
RESPONSE MODIFICATION FACTOR, R	3
SEISMIC RESPONSE COEFFICIENT, C_s	1 %

6. PEDESTRIAN BRIDGE 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

7. 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:
    7.1. SPANDREL BEAM DEFLECTIONS: 1/2" RELATIVE SUPERIMPOSED LOAD DEFLECTION BETWEEN LEVELS. RELATIVE SUPERIMPOSED LOAD DEFLECTION IS THE DEFLECTION ANTICIPATED TO OCCUR BETWEEN ADJACENT FLOORS AFTER THE CLADDING HAS BEEN ERECTED. THE RELATIVE SUPERIMPOSED DEFLECTION DOES NOT INCLUDE DEFLECTIONS DUE TO THE WEIGHT OF THE FLOOR FRAMING ITSELF, NOR DOES IT INCLUDE AN ALLOWANCE FOR CONSTRUCTION TOLERANCE.
    7.2. MAXIMUM ESTIMATED DEFLECTIONS (IN INCHES) ARE AS FOLLOWS:

	LIVE LOAD	DEAD + LIVE LOAD
ROOF MEMBERS:	L/360	L/240
FLOOR MEMBERS:	L/360	L/240

    WHERE L = SPAN LENGTH (IN INCHES) BETWEEN CENTERLINES OF SUPPORTS. (FOR CANTILEVERS, L IS TWICE THE LENGTH OF THE CANTILEVER.)
    7.3. MAXIMUM LATERAL INTER-STORY DRIFT DUE TO WIND LOADING (10-YEAR MEAN RECURRENCE INTERVAL) ARE AS FOLLOWS:

    H/400 AT THE CENTER OF MASS
    MAXIMUM OF 0.6" AT THE EDGE OF THE BUILDING
8. SPECIAL INSPECTIONS ARE REQUIRED PER IBC CHAPTER 17 AND AS SPECIFIED IN THE STRUCTURAL SPECIAL INSPECTION STATEMENT PROVIDED BY THE STRUCTURAL ENGINEER.
9. PROVISIONS HAVE BEEN MADE FOR A ONE-STORY FUTURE VERTICAL EXPANSION OF THE PATIENT TOWER.
10. RENOVATION PROJECTS MAY REQUIRE FIELD-DIRECTED MODIFICATIONS BASED ON EXISTING CONDITIONS. THE STRUCTURAL ENGINEER SHALL PROVIDE MODIFICATIONS OR ADDITIONS TO THE EXISTING STRUCTURE BASED ON FIELD OBSERVATIONS OR REPORTS. THE CONTRACTOR SHALL DOCUMENT ANY FIELD-DIRECTED MODIFICATIONS AND SHALL SUBMIT THE NECESSARY DOCUMENTATION TO THE OWNER.

C. DEFERRED STRUCTURAL SUBMITTALS

1. 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.
2. 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.
3. 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.
4. 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.

    CONCRETE FORMWORK
    STRUCTURAL STEEL CONNECTIONS
    METAL STAIRS, LANDINGS, HANDRAILS, AND GUARDRAILS
    ELASTOMERIC BEARING PADS
    COLD FORMED METAL FRAMING
    PANELIZED WALL SYSTEMS
    EXTERIOR BUILDING SIGNAGE
    ANCHORAGE OF EXTERIOR ARCHITECTURAL, MECH., ELEC., AND PLUMBING EQUIPMENT
    ATTACHMENT OF ROOFTOP EQUIPMENT, PIPING, & DUCTWORK TO THE UNDERLYING STRUCTURE
    GLAZING SYSTEMS (e.g., CURTAIN WALL, WINDOW WALL, AND STOREFRONT SYSTEMS)
    SLOTTED CHANNEL STRUT FRAMING (e.g., UNISTRUT)
    PREFABRICATED / PRE-ENGINEERED ARCHITECTURAL ELEMENTS AND STRUCTURES
    OTHER ELEMENTS SPECIFICALLY IDENTIFIED IN THE CONTRACT DOCUMENTS
    WINDOW WASHING, FALL PROTECTION, AND BUILDING MAINTENANCE SYSTEMS
5. 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.
6. 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

1. FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY ALPHA-OMEGA GEOTECH (REPORT NUMBER AOG 240229 E 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.
2. STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIUM.
3. INDIVIDUAL SPREAD FOOTINGS AND CONTINUOUS FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUPPORTING 3,000 PSF AND 2,500 PSF, RESPECTIVELY. PEDESTRIAN BRIDGE SPREAD FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUPPORTING 2,000 PSF.
4. FOUNDATION WALLS ARE DESIGNED FOR LATERAL PRESSURES DUE TO THE FOLLOWING EQUIVALENT FLUID DENSITIES:

WALLS SUPPORTED AT TOP	(AT-REST CONDITION):	48 PCF
WALLS FREE TO DISPLACE AT TOP	(ACTIVE CONDITION):	30 PCF

5. PROOF-ROLL BUILDING 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

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
2. 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".
3. 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.
4. PROVIDE DOWELS FROM FOUNDATIONS THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
5. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:
    5.1. 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	2" CLEAR
NO. 5 BARS OR SMALLER	1-1/2" CLEAR
NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH:	
WALLS	3/4" CLEAR
SLABS	3/4" CLEAR

6. 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

F. CAST-IN-PLACE CONCRETE

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

	EXPOSURE CLASS	28-DAY MIN. COMPRESSIVE STRENGTH, f'_c	MAX. w/cm RATIO	MAX. NOM. AGGREGATE SIZE
FOOTINGS	C1, W1	4,000 PSI	0.50	1-1/2"
PEDESTALS	C1, W1	4,000 PSI	0.50	1"
INTERIOR SLABS-ON-GROUND	C1	4,000 PSI	0.48	1"
EXTERIOR SLABS-ON-GROUND	F2, C1	4,500 PSI	0.45	1"
CURBS, PARAPETS	F1,C1	4,500 PSI	0.45	3/4"

    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
    2.2. LIGHTWEIGHT STRUCTURAL CONCRETE:
    (110-120 PCF FRESH UNIT WEIGHT/107-116 PCF AIR-DRIED UNIT WEIGHT)

	EXPOSURE CLASS	28-DAY COMPRESSIVE STRENGTH, f'_c	MAX. NOM. AGGREGATE SIZE
SLABS ON COMPOSITE STEEL DECK		3,500 PSI	1"
EXTERIOR SLABS ON COMPOSITE STEEL DECK	F1, C1	3,500 PSI	1"
INTERIOR TOPPING SLABS		4,000 PSI	3/4"
EXTERIOR TOPPING SLABS	F1, C1	4,000 PSI	3/4"

    ALL LIGHTWEIGHT 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
3. CONCRETE MIX REQUIREMENTS
    3.1. 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.
    3.2. 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.
    3.3. ALL CONCRETE SHALL SATISFY BOTH THE SPECIFIED MAXIMUM WATER TO CEMENT RATIO AND THE MINIMUM COMPRESSIVE STRENGTH, f'_c, REQUIREMENTS.
4. 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.
5. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF ALL CONCRETE FINISHES AND SLAB DEPRESSIONS.
6. CONSTRUCTION JOINTS
    6.1. LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
    6.2. NO HORIZONTAL JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
    6.3. JOINTS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SPANS OF SLABS.
7. 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.
8. POLYSTYRENE GEOFOAM SHALL CONFORM TO ASTM D6817, TYPE EPS29.

G. POST-INSTALLED ANCHORS AND REINFORCING STEEL

1. POST-INSTALLED ANCHORS AND REINFORCING STEEL SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. 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.
2. 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 AND DOCUMENTATION SHALL OCCUR PRIOR TO THE COMMENCEMENT OF PRODUCT INSTALLATION. INSTALLATION OF ADHESIVE ANCHOR PRODUCTS IN HORIZONTAL OR UPWARD INCLINED ORIENTATION RESISTING SUSTAINED TENSION LOADS SHALL BE CONDUCTED BY AN INSTALLER CERTIFIED IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM. PROOF OF CERTIFICATION SHALL BE MAINTAINED AT THE JOB SITE.
3. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR OR REINFORCING LOCATIONS. CONTRACTOR SHALL LOCATE THE POSITION OF REINFORCING BARS AND P.T. TENDONS BY FERROSCAN, GPR, X-RAY, CHIPPING, OR OTHER MEANS PRIOR TO ANCHOR INSTALLATION. THE CONTRACTOR SHALL NOT DAMAGE ANY REINFORCING.
4. 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
5. MECHANICAL AND SCREW ANCHORS IN EXTERIOR AND CORROSIVE ENVIRONMENTS SHALL BE GALVANIZED OR STAINLESS STEEL AND SHALL APPROVED BY THE MANUFACTURER FOR THE EXPOSURE.
6. PROVIDE THE FOLLOWING INSTALLATION CONDITIONS FOR ADHESIVE ANCHORS. 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)

H. STRUCTURAL STEEL

1. 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".
2. 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, BENT PLATES, AND ELEMENTS LESS THAN 1/2" THICK	ASTM A36
BASE PLATES AND ALL OTHER ELEMENTS	ASTM A572, GRADE 50
ROUND ROD	ASTM A36

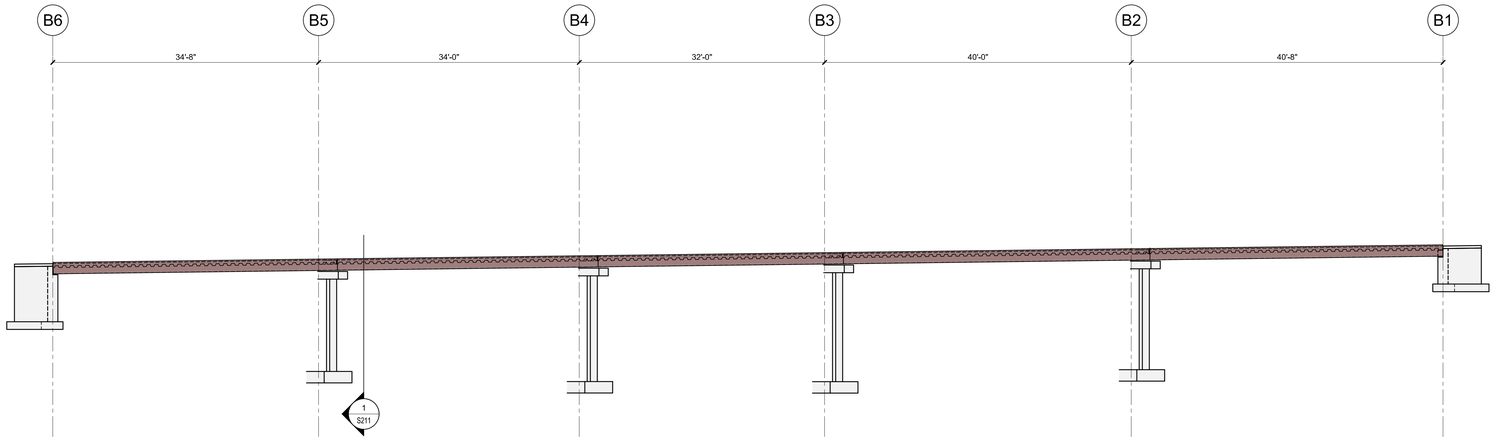
3. BOLTS, ANCHOR RODS, AND HEADED STUDS:
    3.1. ALL BOLTS SHALL BE GROUP 120 OR GROUP 150 HIGH-STRENGTH BOLTS WITH A 3/4" MINIMUM DIAMETER UNLESS NOTED OTHERWISE. BOLT SHEAR STRENGTH SHALL BE DETERMINED PER TABLE 7-1 IN THE AISC "STEEL CONSTRUCTION MANUAL".
    3.2. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 55 UNLESS NOTED OTHERWISE.
    3.3. HEADED STUDS SHALL BE 3/4" DIAMETER UNLESS NOTED OTHERWISE AND SHALL CONFORM TO AWS D1.1. LENGTH OF STUD PRIOR TO INSTALLATION SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWING:

COMPOSITE BEAMS:	4-7/8" LONG HEADED STUDS (FOR 6-1/4" SLABS)
MISCELLANEOUS EMBEDS:	SEE CONTRACT DRAWINGS

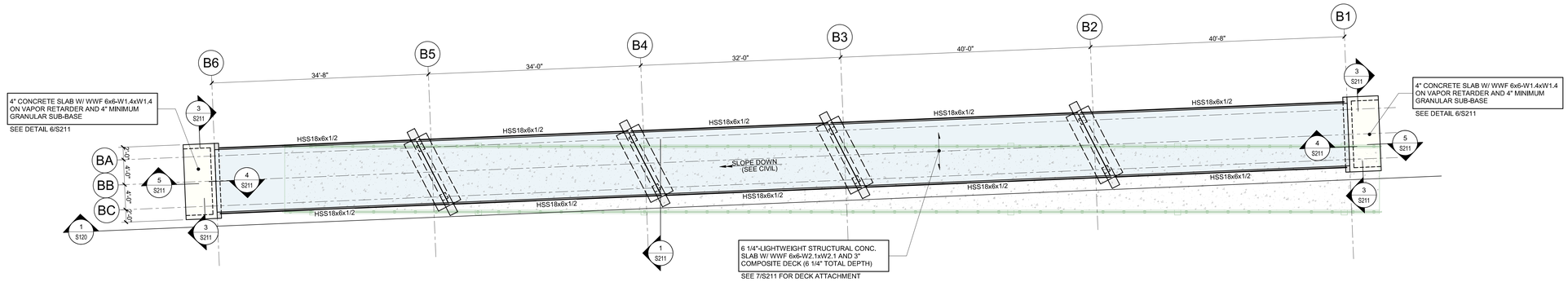
4. CONNECTIONS:
    4.1. STEEL CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT ADVANCE WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.
    4.2. THE 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 SHOWN ON THE SHOP DRAWINGS; AND, THE CDSE SHALL SUBMIT A SIGNED AND SEALED LETTER, WITH EACH SHOP DRAWING SUBMITTAL, CONFIRMING THE ABOVE REVIEW.
    4.3. STANDARD SHEAR CONNECTIONS:
        4.3.1. STANDARD SHEAR CONNECTIONS SHALL BE DETAILED AS DOUBLE-ANGLE, SINGLE-PLATE, SINGLE-ANGLE, OR TEE CONNECT

NOTES:

1. REFERENCE ELEVATION 1008.29' = 0'-0" (REFER TO CIVIL DRAWINGS).
2. FOUNDATION ELEMENTS ARE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE.
3. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR DIMENSIONS NOT SHOWN. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL AND CIVIL DRAWINGS.
4. TOP OF SLAB ELEVATIONS ARE APPROXIMATE. REFER TO CIVIL DRAWINGS FOR TOP OF SLAB ELEVATIONS AND SLOPES.

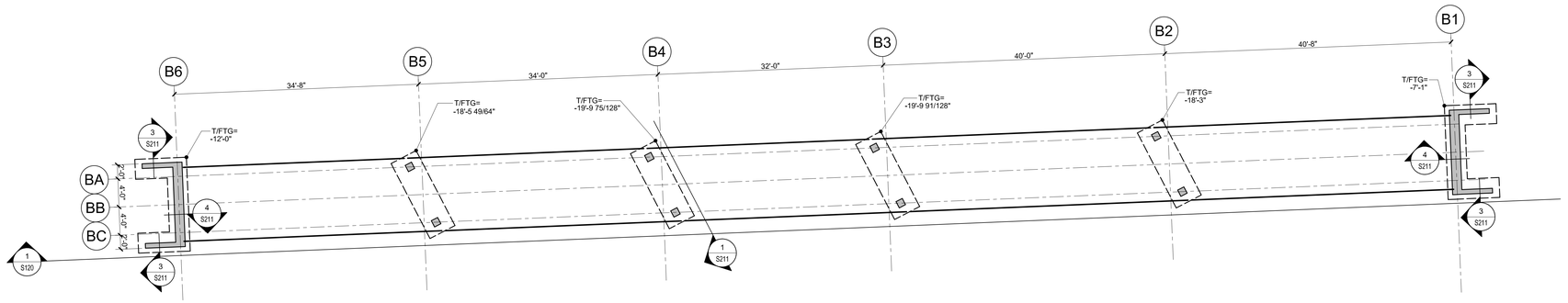


1 BRIDGE ELEVATION



PEDESTRIAN BRIDGE FRAMING PLAN

0' 4' - 0" 8' - 0" 16' - 0"



PEDESTRIAN BRIDGE FOUNDATION PLAN

0' 4' - 0" 8' - 0" 16' - 0"

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615 320 1735

Stanley D. Lindsey and Associates, Ltd.

Project No. 24051.00

STATE OF MISSOURI
MICHAEL E. COSTIN
NUMBER PE-2011017844
PROFESSIONAL ENGINEER
12-4-24

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MED SURG & DIETARY 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

REVISIONS		
REV #	DESCRIPTION	DATE

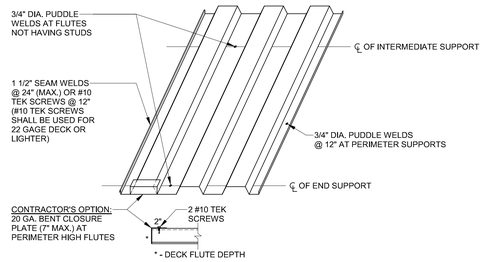
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SCALE:	1/8" = 1'-0"
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REVIEWED:	JDP
JOB NUMBER:	6406.24

PEDESTRIAN BRIDGE FOUNDATION AND FRAMING PLANS

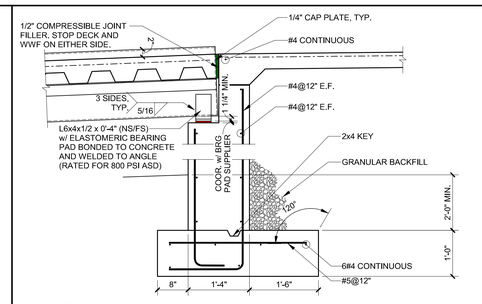
S120

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

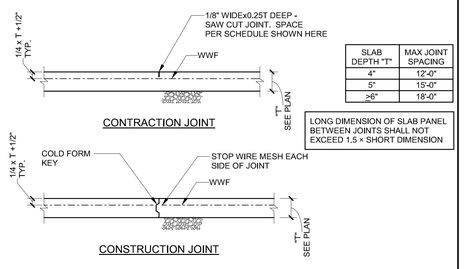
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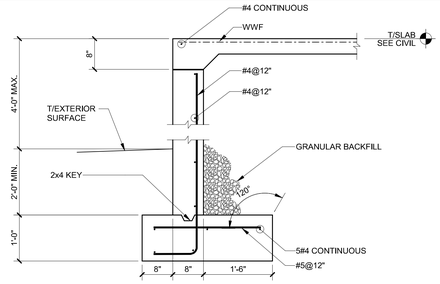
7 TYPICAL COMPOSITE DECK ATTACHMENT



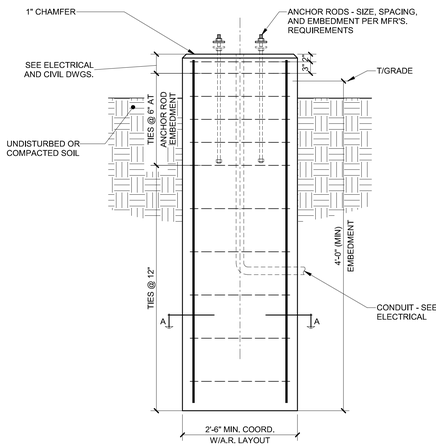
4 TYPICAL SECTION AT STEEL BEAM / RET. WALL

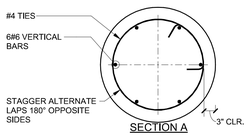


6 TYPICAL SLAB ON GROUND DETAILS



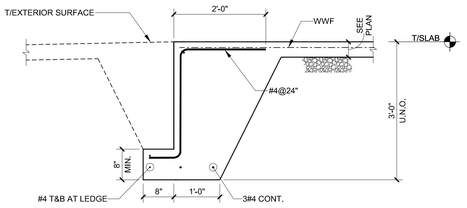
3 TYPICAL SECTION AT RETAINING WALL



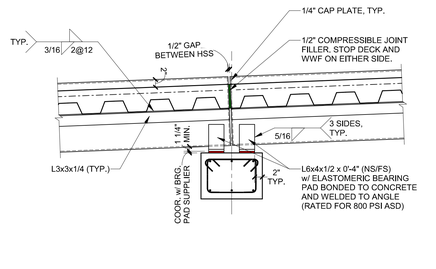


NOTE:
PIER FOUNDATION IS DESIGNED FOR LOADING FROM A 8" MAX. ROUND, 20' TALL POLE, WITH A TOTAL LUMINAIRE EPA OF 1.5 SQ. FT. NOTIFY STRUCTURAL ENGINEER IF ANY OF THE ABOVE PARAMETERS ARE EXCEEDED

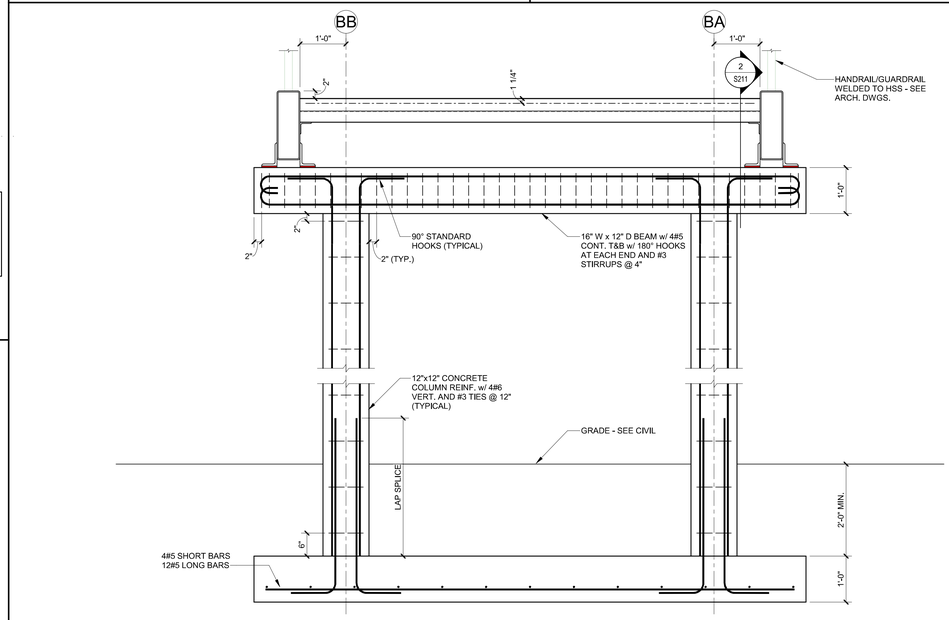
9 SITE LIGHT POLE FOUNDATION SECTION



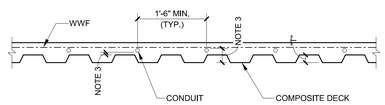
5 TYPICAL TURNED DOWN SLAB



2 TYPICAL SECTION AT PEDESTRIAN BRIDGE



1 TYPICAL SECTION AT PEDESTRIAN BRIDGE



NOTES:
1. OUTSIDE DIA. OF CONDUIT SHALL NOT EXCEED 1" NOR 1/3 "T".
2. CROSSOVERS OF CONDUIT ARE NOT PERMITTED.
3. MAINTAIN 3/4" MINIMUM CLEAR COVER TOP AND BOTTOM. DO NOT PLACE CONDUIT WITHIN DECK FLUTES.
4. CONDUITS GROUPED TOGETHER NEAR JUNCTION BOXES SHALL BE REINFORCED AS SLAB OPENINGS.
5. DO NOT PLACE CONDUIT WITHIN 3" CLEAR OF COMPOSITE BEAM SHEAR STUDS.

8 TYPICAL CONDUIT IN COMPOSITE SLAB DETAIL

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Project No. 24051.00

STATE OF MISSOURI — MICHAEL E. CORDER — NUMBER PE-2011019744 — PROFESSIONAL ENGINEER — 12-2-24

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.O. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

MED SURG & DIETARY 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

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	2024/12/05
SCALE:	3/4" = 1'-0"
DRAWN:	JL
REVIEWED:	JDP
JOB NUMBER:	6406.24

PEDESTRIAN BRIDGE STRUCTURAL SECTIONS AND DETAILS

S211

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/2405100-Lee's_Summit_MC_Med-Surg_Bed_Expasion_S01.23.rvt
12/4/2024 2:15:02 PM

A. SUPPLEMENTAL GENERAL CONDITIONS

1. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATION THAT IS COMPLETE WITH ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICE NECESSARY SO AS TO PROVIDE A COMPLETE, FUNCTIONING ELECTRICAL SYSTEM IN SAFE WORKING ORDER.
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. THE DECISION OF THE ARCHITECT SHALL BE FINAL.
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 PROVISIONS OF LAWS AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS, AND AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTS. ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION. SHOULD ANY OF THESE ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST, THE CONTRACTOR SHALL HAVE THEM EXPLAINED AND ADJUSTED IN WRITING BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK; OTHERWISE, THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, SUPPLY THE PROPER MATERIALS AND LABOR TO MAKE GOOD ANY DAMAGE OR DEFECTS IN THEIR WORK OR 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 DIMENSIONS FOR ANY EXACT TAKEOFFS FROM THE ARCHITECT. NO ADDITIONAL COST TO THE OWNER WILL BE CONSIDERED FOR FAILURE TO OBTAIN EXACT DIMENSIONS WHERE NOT CLEAR OR IN ERROR ON THE DRAWINGS. ANY DEVICE OR FIXTURE 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 IS RESPONSIBLE FOR FILING AND PAYING ALL FEES AND OBTAINING NECESSARY PERMITS AND CERTIFICATES OF INSPECTION. THE CONTRACTOR SHALL DELIVER ALL CERTIFICATES OF INSPECTION TO OWNER/CONSTRUCTION MANAGER INCLUDING COPIES WITH MAINTENANCE MANUALS.
7. ONLY EXPERIENCED CRAFTSMEN KNOWLEDGEABLE IN 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 70 (NATIONAL ELECTRICAL CODE). CONTRACTOR SHALL ALSO CONFORM TO ALL APPLICABLE LOCAL CODES AND AMENDMENTS.
9. UNLESS OTHERWISE INDICATED, ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL MEET NEMA AND ANSI STANDARDS. THEY SHALL ALSO BE LISTED/LABELED BY A NATIONALLY RECOGNIZED LABORATORY IN ACCORDANCE WITH NFPA 70. EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND WITHIN THEIR LISTING/LABELING REQUIREMENTS AND RESTRICTIONS.
10. PROVIDE SHOP DRAWINGS FOR ENGINEER'S REVIEW FOR ALL ELECTRICAL EQUIPMENT, DEVICES, AND MATERIALS PROPOSED TO BE PROVIDED UNDER THIS CONTRACT. ANY DEVIATIONS FROM ITEMS SPECIFIED SHALL BE CLEARLY IDENTIFIED AND SEPARATELY SUBMITTED WITH A FORMAL SUBSTITUTION REQUEST. REFER TO SPECIFICATIONS (PROJECT MANUAL) FOR REQUIREMENTS.

B. ELECTRICAL EQUIPMENT

1. PROVIDE AN IDENTIFICATION NAMEPLATE FOR EACH ELECTRICAL EQUIPMENT, APPURTENANCE DEPICTING THE DESIGNATION INDICATED ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. WEATHERPROOF 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 FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
5. DO NOT USE PERMANENT INK WHEN MAKING FIELD MARKINGS OR TEMPORARY CIRCUIT LABELS ON PANELS. CONTRACTOR SHALL USE REMOVABLE TAPE/TAGS FOR ALL TEMPORARY MARKINGS AND SHALL REMOVE THESE TEMPORARY MARKINGS AT THE CONCLUSION OF THIS PROJECT.

C. SITE WORK

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 CONSTRICTION PRIOR TO ELECTRICAL ROUGH-IN.

D. CONDUIT & RACEWAY

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

E. BRANCH CIRCUITS AND FEEDERS

1. CIRCUITING IS SHOWN DIAGRAMMATICALLY. HOMERUNS SHALL BE COMBINED WHERE POSSIBLE IN ACCORDING TO NFPA 70.
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, 98% CONDUCTIVITY CONTINUOUS FROM OUTLET TO OUTLET.
4. UNLESS OTHERWISE INDICATED, CONDUCTOR SIZES #12 AWG 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 FOR GROUNDING WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY, OR A CABLE ARMOR OR SHEATH SHALL NOT BE USED AS THE ONLY EQUIPMENT GROUNDING CONDUCTOR.
6. HOMERUN CIRCUITS FOR ISOLATED GROUND RECEPTACLES SHALL BE SEPARATED FROM OTHER CIRCUITS. EACH CIRCUIT SHALL HAVE ITS OWN NEUTRAL CONDUCTOR AND EACH HOMERUN SHALL CONTAIN AN ISOLATED AND EQUIPMENT GROUND CONDUCTOR.

F. WIRING DEVICES

1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL WALL AND FLOOR MOUNTED ELEMENTS (OUTLETS, LIGHT SWITCHES, CONTROLLERS, POKE-THRU, ETC). ALL WALL/FLOOR MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL WALL/FLOOR TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
2. COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL ELEVATIONS, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
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. VERIFY THE EXACT POWER CONNECTION TYPE AND NEMA CONFIGURATION OF RECEPTACLES FOR EQUIPMENT FURNISHED BY THE OWNER, OTHER TRADES, OR UNDER A SEPARATE SECTION OF THIS CONTRACT PRIOR TO ELECTRICAL ROUGH-IN.
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 FUNCTION TO PROTECT AGAINST THE USE OF MISWIRED DEVICES OR DEVICES THAT HAVE BEEN DAMAGED DUE TO DISABLING SURGES.

G. LIGHTING SYSTEM

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

H. MECHANICAL & PLUMBING COORDINATION

1. REFERENCE THE MECHANICAL AND PLUMBING DRAWINGS FOR ALL EQUIPMENT NEEDING ELECTRICAL CONNECTIONS. MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT.
2. VERIFY EXACT LOCATION OF ALL POWER CONNECTIONS AND CONTROL DEVICES WITH OTHER TRADES AND MANUFACTURERS SHOP DRAWINGS BEFORE CONSTRUCTION. COORDINATE ALL REQUIRED ENERGY MANAGEMENT SYSTEM POINTS AND CONTACT CONNECTIONS TO ENSURE THE COMPLETE AND PROPER OPERATION OF ALL SYSTEMS.
3. ALL FUSED SWITCH AND/OR CIRCUIT BREAKERS SERVING EQUIPMENT SHALL HAVE PROVISIONS FOR HANDLE LOCKS.
4. ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BEAR AN 'HACR' RATING.
5. ALL DISCONNECTS DOWN STREAM OF VFDs SHALL BE PROVIDED WITH AUXILIARY CONTACTS TO SHUT DOWN UPSTREAM VFD WHEN SWITCH IS OPENED.
6. COORDINATE BETWEEN TRADES AND PROVIDE CONTROL POWER FOR ALL VAV BOXES/DAMPERS/ETC, AS REQUIRED TO ENSURE A COMPLETE, FULLY FUNCTIONAL HVAC SYSTEM. SHOULD AN EXACT CIRCUIT NUMBER NOT BE INDICATED ON ELECTRICAL DRAWINGS, CONTRACTOR SHALL UTILIZE AVAILABLE 20A/1P SPACE FROM THE NEAREST 208V/120V PANEL OR FROM BUILDING CONTROL POWER DISTRIBUTION SYSTEM.

I. SPECIAL SYSTEMS (i.e. DATA/PHONE/SECUITY/CATV)

1. 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.

J. DEMO GENERAL NOTES

1. PROVIDE UPDATED, TYPE WRITTEN DIRECTORY OF ALL CORRECT CIRCUITS WITH LOAD DEFINITIONS FOR EACH PANEL BOARD. DIRECTORY SHALL BE LOCATED INSIDE PANEL DOOR.
2. INFORMATION PROVIDED ON THESE DRAWINGS HAVE BEEN TAKEN FROM DESIGN DRAWING AND FIELD OBSERVATIONS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND COMMENCEMENT OF WORK.
3. WHERE EXISTING WALLS ARE DEMOLISHED, REMOVE ALL EXISTING ELECTRICAL DEVICES AND THEIR ASSOCIATED CONDUITS AND WIRING BACK TO THE POINT OF ORIGINATION. ENERGIZE ALL EXISTING DEVICES THAT WERE INTERRUPTED DURING DEMOLITION. WHERE ENTIRE CIRCUITS ARE REMOVED, TURN THE CIRCUIT BREAKER OFF AND LABEL AS "SPARE".
4. PROVIDE FOR ANY AND ALL DEMOLITION WORK NECESSARY TO ACCOMMODATE ALL NEW CONSTRUCTION, INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING OR ELECTRICAL WORK.
5. IF DEMOLITION IS REQUIRED TO INSTALL AN ITEM, THE CONTRACTOR SHALL RESTORE THE AREA TO PREVIOUS CONDITION, OR REPLACE DAMAGED ITEMS WITH NEW ITEMS TO MATCH EXISTING.
6. DESIGNATION 'EX' REPRESENTS EXISTING DEVICE OR LIGHT FIXTURE TO REMAIN AS CIRCUITED AND SWITCHED UNLESS NOTED OTHERWISE. EXISTING LIGHT FIXTURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
7. A DEVICE WITH AN 'X' INDICATES EXISTING DEVICE TO BE REMOVED INCLUDING ALL ASSOCIATED CONDUIT AND WIRING.
8. A DEVICE WITH AN 'R' INDICATES EXISTING DEVICE TO BE RELOCATED INCLUDING ALL ASSOCIATED CONDUIT AND WIRING.
9. CONTRACTOR SHALL REMOVE ALL CONDUIT AND WIRING ASSOCIATED WITH DEVICES AND EQUIPMENT TO BE REMOVED AND/OR RELOCATED UNLESS NOTED OTHERWISE. PROVIDE AND INSTALL ALL NECESSARY DEVICES, EQUIPMENT AND ACCESSORIES REQUIRED TO MAINTAIN SERVICE TO ALL "EXISTING TO REMAIN" DEVICES AND EQUIPMENT THAT MAY BE INTERRUPTED DURING DEMOLITION.
10. WHERE EXISTING MECHANICAL/PLUMBING EQUIPMENT IS DEMOLISHED, REMOVE ALL RELATED ELECTRICAL FEEDS TO THE EQUIPMENT AND THEIR ASSOCIATED CONDUITS BACK TO THE POINT OF ORIGINATION.
11. REFER TO ARCHITECTURAL PLANS FOR AREAS WHERE CEILING IS DEMOLISHED. REMOVE ALL LIGHTING FIXTURES AND ASSOCIATED CONDUIT AND WIRING FROM THESE LOCATIONS.
12. ALL RECEPTACLES WITHIN THE PROJECT SCOPE SHALL BE HOSPITAL GRADE TYPE. IF A DEVICE IS INDICATED AS EXISTING TO REMAIN AND IS NOT A HOSPITAL GRADE RECEPTACLE, REPLACE THE EXISTING DEVICE WITH A HOSPITAL GRADE RECEPTACLE AND RECONNECT TO EXISTING CIRCUIT.
13. ALL LIGHTING FIXTURES DEMOLISHED UNDER THESE DRAWINGS SHALL BE RETURNED TO THE OWNER.

FIRE ALARM SYSTEM

FIRE ALARM SYSTEMS IS A DELGATED DESIGN, THESE DRAWINGS ARE INTENDED TO SHOW GENERAL GUIDELINES FOR THE PLACEMENT OF FIRE ALARM DEVICES AS THEY RELATE TO OTHER (NON-FIRE ALARM) SYSTEMS AND FOR PERMITTING PURPOSES. THE FINAL FIRE ALARM PLANS TO BE SUBMITTED FOR AHJ APPROVAL SHALL BE PRODUCED AND SEALED BY A NICET LEVEL III CERTIFIED DESIGNER. REFER TO THE SPECIFICATIONS (PROJECT MANUAL) FOR FURTHER REQUIREMENTS. THE DESIGNER SHALL PROVIDE ALL DEVICES SHOWN ON THESE DRAWINGS AND ANY ADDITIONAL DEVICES OR COMPONENTS REQUIRED FOR A COMPLETE SYSTEM. IF OTHER DEVICES ARE ANTICIPATED TO BE REQUIRED FOR SYSTEM FUNCTIONALITY, COMPLIANCE WITH NATIONAL AND LOCAL CODES OR APPROVAL OF THE AHJ, THE CONTRACTOR SHALL QUALIFY THEIR BID AND SHALL PROVIDE AN ADD ALTERNATE PRICE MAKING NOTE OF THE SPECIFIC ANTICIPATED ADDITIONAL REQUIREMENTS.

BUILDING CODE:	2018 IBC
FIRE CODE:	2018 IFC
ELECTRICAL CODE:	2017 NFPA 70 (NEC)
BUILDING CONSTRUCTION TYPE:	TYPE 1A - FULLY SPRINKLERED
OCCUPANCY:	TYPE II

PROJECT DESIGN CRITERIA

LOCATION:	
CITY/STATE	LEE'S SUMMIT, MO
APPLICABLE CODES:	
BUILDING	2018 INTERNATIONAL BUILDING CODE
MECHANICAL	2018 INTERNATIONAL MECHANICAL CODE
PLUMBING	2018 INTERNATIONAL PLUMBING CODE
FIRE	2018 INTERNATIONAL FIRE CODE
ELECTRICAL	2017 NATIONAL ELECTRICAL CODE
LATITUDE:	38.9108° DEGREES NORTH
ELEVATION:	
FT. ABOVE SEA LEVEL	738 FT

ELECTRICAL ABBREVIATIONS

AFC	ABOVE FINISHED COUNTER	MH	MANHOLE
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
AHJ	AUTHORITY HAVING JURISDICTION	MTD	MOUNT OR MOUNTED
ATS	AUTOMATIC TRANSFER SWITCH	MW	MICROWAVE
BFC	BELOW FINISHED CEILING	N	NEW DEVICE
BOF	BOTTOM OF FIXTURE	NC (N.C.)	NORMALLY CLOSED
C	CONDUIT	NEC	NATIONAL ELECTRIC CODE
CB,C/B OR CKT BKR	CIRCUIT BREAKER	NF	NONFUSED
CKT	CIRCUIT	NIC	NOT IN CONTRACT
CCTV	CLOSED CIRCUIT T.V.	NL	NIGHT LIGHT
CLG	CEILING	NO (N.O.)	NORMALLY OPEN
CR	CRITICAL (EMERGENCY SYSTEM)	PB	PULL BOX
CUH	CABINET HEATER	PLGMLD	PLUGMOLD
EC	EMPTY CONDUIT	PNL	PANEL
ELEC	ELECTRIC	PWR	POWER
E	EMERGENCY	R	RELOCATED DEVICE
EMS	ENERGY MANAGEMENT SYSTEM	RCPT(S) OR RECEPT	RECEPTACLE(S)
EP	EXPLOSION PROOF	REF	REFRIGERATOR
EWC	ELECTRIC WATER COOLER	RF	RETURN AIR FAN
EX	EXISTING	SEF	SMOKE EXHAUST FAN
F	FUSE	SF	SUPPLY AIR FAN
FA	FIRE ALARM	SO (S.O.)	SPACE ONLY
FACP, FAP	FIRE ALARM CONTROL PANEL	SP	SPARE
FCU	FAN COIL UNIT	ST (S.T.)	SHUNT TRIP
FIXT	FIXTURE	SW	SWITCH
FLR	FLOOR	TEL	TELEPHONE
FLUOR	FLUORESCENT	TF	TRANSFER FAN
FTP, FTS OR	FAN TERMINAL UNIT	TP	TAMPER PROOF
FTU		TV	TELEVISION
FUT	FUTURE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
G, GND	GROUND (EQUIPMENT)		
GEF	GENERAL EXHAUST FAN	UF	UDERFLOOR
GEN	GENERATOR	UG	UNDERGROUND
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER	UH	UNIT HEATER
HOA	HAND-OFF-AUTO	UNO (U.N.O.)	UNLESS NOTED OR INDICATED OTHERWISE
HP	HORSE POWER		
HV	HIGH VOLTAGE	V	VOLTAGE
HWAT	HEAT TRACE	VFD	VARIABLE FREQUENCY DRIVE
IC	INTERRUPTING CAPACITY	VP	VAPOR PROOF
ICAND	INCANDESCENT	VV	VARIABLE VOLUME UNIT
IG	ISOLATED GROUND	W	WIRE
IGF	GROUND FAULT INDICATION ONLY	W/	WITH
JB	JUNCTION BOX	WG	WIRE GUARD
KEF	KITCHEN EXHAUST FAN	WP	WEATHER PROOF
LTG	LIGHTING	WT	WATER TIGHT
LTS	LIGHTS	XFMR	TRANSFORMER MOUNTING
LV	LOW VOLTAGE	+xx	HEIGHT IN INCHES, AFF UNO.
MATV	MASTER ANTENNA	UCR	UNCER CABINET REFRIGERATOR
MCB	MAIN CIRCUIT BREAKER		
MCC	MOTOR CONTROL CENTER		
MDP	MAIN DISTRIBUTION PANEL		

FIRE ALARM SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO
F	FIRE ALARM PULL STATION WALL MOUNTED	48" AFF
X	FIRE ALARM AUDIBLE VISUAL SIGNAL WALL MOUNTED (X: H=HORN, S=SPEAKER)	80" AFF
X	FIRE ALARM AUDIBLE SIGNAL WALL MOUNTED (X: H=HORN, S=SPEAKER)	80" AFF
X	FIRE ALARM VISUAL SIGNAL WALL MOUNTED	80" AFF
X CLG	FIRE ALARM AUDIBLE VISUAL SIGNAL CEILING MOUNTED (X: H=HORN, S=SPEAKER)	--
X CLG	FIRE ALARM AUDIBLE SIGNAL CEILING MOUNTED (X: H=HORN, S=SPEAKER)	--
CLG	FIRE ALARM VISUAL SIGNAL CEILING MOUNTED	--
FS	FIRE ALARM SPRINKLER FLOW SWITCH	--
TS	FIRE ALARM SPRINKLER TAMPER SWITCH	--
PS	FIRE ALARM SPRINKLER PRESSURE SWITCH	--
	SMOKE DETECTOR WALL MOUNTED	9" BFC
	SMOKE DETECTOR CEILING MOUNTED	--
P	PATIENT ROOM SMOKE DETECTOR	--
	DUCT SMOKE DETECTOR	--
FSD	FIRE AND SMOKE DAMPER	
	HEAT DETECTOR WALL MOUNTED	9" BFC
	HEAT DETECTOR CEILING MOUNTED	--
EM	ELECTRO-MAGNETIC DOOR HOLDER	AS REQUIRED
EM	ELECTRO-MAGNETIC SMOKE DOOR HOLDER (INTERFACED WITH FIRE ALARM SYSTEM. DC POWER PROVIDED BY FIRE ALARM WIRING	AS REQUIRED
	FIRE ALARM BELL	108" AFF
MM	MONITOR MODULE	AS REQUIRED
FACP	FIRE ALARM CONTROL PANEL	AS REQUIRED
FAAP	FIRE ALARM ANNUNCIATOR PANEL	AS REQUIRED
FPAP	FIRE PUMP ANNUNCIATOR PANEL	AS REQUIRED
FCP	FIREFIGHTER'S CONTROL PANEL	AS REQUIRED
NAC	NOTIFICATION APPLIANCE CIRCUIT FOUR CIRCUIT FIRE ALARM INDICATING CIRCUIT POWER EXTENDER	AS REQUIRED
FP	TELEPHONE JACK FOR FIREMAN'S PHONE (BY FIRE ALARM CONTRACTOR)	48" AFF
FPH	WARDEN STATION TELEPHONE FOR FIREMAN'S PERMANENT HANDSET (BY FIRE ALARM CONTRACTOR)	48" AFF

ONE-LINE DIAGRAM & RISER SYMBOLS LEGEND

	AUTOMATIC / MANUAL TRANSFER SWITCH - PROGRAMMED OR DELAYED TRANSITION		AUTOMATIC / MANUAL TRANSFER SWITCH - BYPASS ISOLATION
XX/XX/X	DISCONNECT AMPS / FUSE / POLES	AAAA BBBB	FEEDER TAG. REFER TO FEEDER SCHEDULE FOR NUMBER AND SIZE OF CONDUCTORS AND CONDUIT. A-ALUMINUM C-COPPER
XX	MOTOR XX = HORSE POWER		GROUNDING ELECTRODE
XXX	BRANCH PANEL XXX = PANEL NAME	T-XXX XXkVA	TRANSFORMER
AT	BOLT ON CIRCUIT BREAKER AT = TRIP RATING	AF AT	DRAW OUT CIRCUIT BREAKER AT = TRIP RATING AF = FRAME SIZE

LSIG ELECTRONIC TRIP FUNCTIONS
L = LONG TIME SETTING
S = SHORT TIME SETTING
I = INSTANTANEOUS SETTING
G = GROUND FAULT SETTING
A = INDICATION GROUN FAULT (GROUND FAULT ALARM ONLY)

GENERAL NOTATIONS AND MOUNTING HEIGHTS

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

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

(2) - LEGEND NOTES: DENOTES "SEE LEGEND NOTE NO. 2"

(7) - EQUIPMENT (ID) NUMBER FOR FOOD SERVICE EQUIPMENT. REFER TO FOOD SERVICE DOCUMENTS FOR DEFINITION AND REQUIREMENTS.

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

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

7176291 OR 717629 - EQUIPMENT (ID) NUMBER FOR OWNER PROVIDED EQUIPMENT. REFER TO OWNER'S EQUIPMENT BOOK / FF&E DOCUMENTS FOR DEFINITION AND REQUIREMENTS.

LIGHTNING PROTECTION

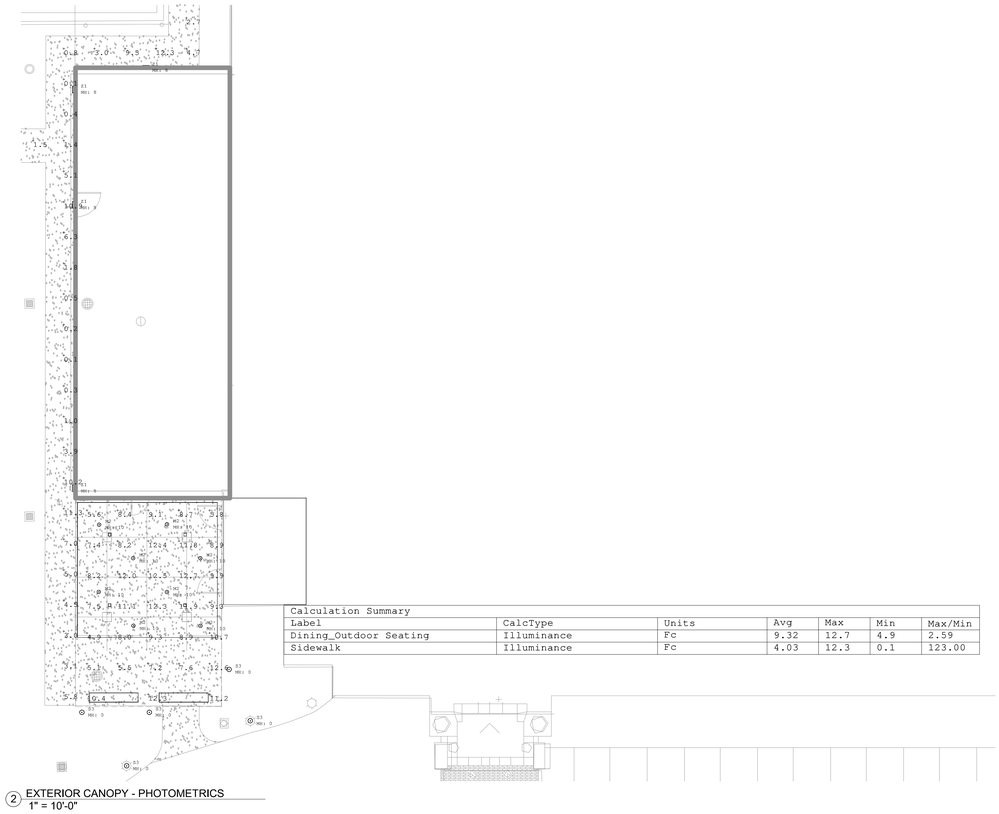
LIGHTNING PROTECTION SYSTEM IS A DELEGATED DESIGN, THESE DRAWINGS DO NOT INDICATE SYSTEM REQUIREMENTS. REFER TO THE SPECIFICATIONS (PROJECT MANUAL) FOR SYSTEM REQUIREMENTS. THESE DRAWINGS ARE INTENDED TO SHOW LOCATIONS OF EQUIPMENT FOR WHICH LIGHTNING PROTECTION WILL NEED TO COORDINATE WITH. THE DESIGNER 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) II

POWER SYMBOLS LEGEND

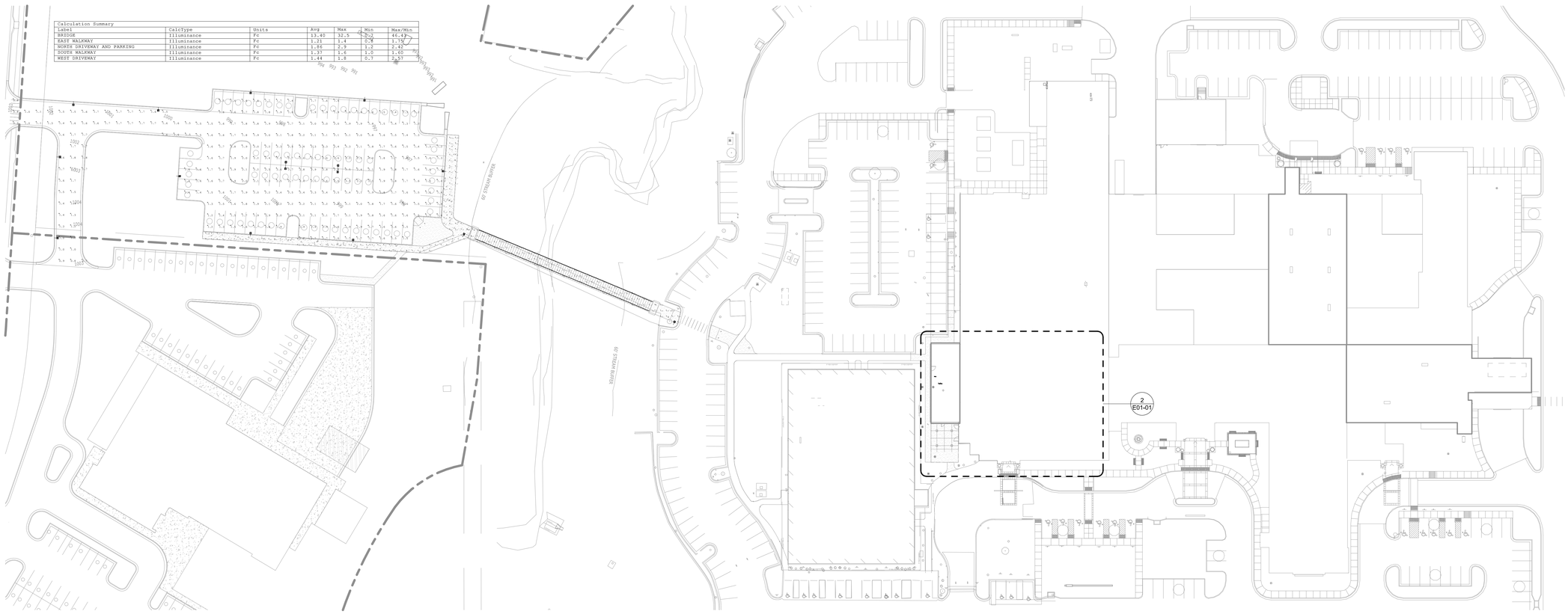
ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO
	SINGLE RECEPTACLE - 20A/125V/2P/



Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Max/Min
Dining_Outdoor Seating	Illuminance	Fc	9.32	12.7	4.9	2.59
Sidewalk	Illuminance	Fc	4.03	12.3	0.1	123.00

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



Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Max/Min
BRIDGE	Illuminance	Fc	13.40	32.5	2.2	14.77
EAST WALKWAY	Illuminance	Fc	1.21	1.4	0.8	1.75
NORTH DRIVEWAY AND PARKING	Illuminance	Fc	1.86	2.9	1.2	2.42
SOUTH WALKWAY	Illuminance	Fc	1.37	1.6	1.0	1.60
WEST DRIVEWAY	Illuminance	Fc	1.44	1.8	0.7	2.57

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

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12/05/2024
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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

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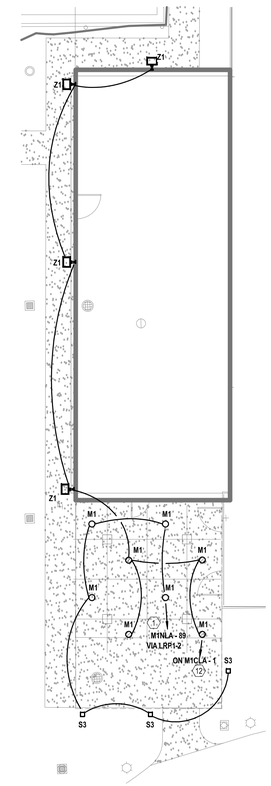
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REV #	DESCRIPTION	DATE

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REVIEWED:	Checker
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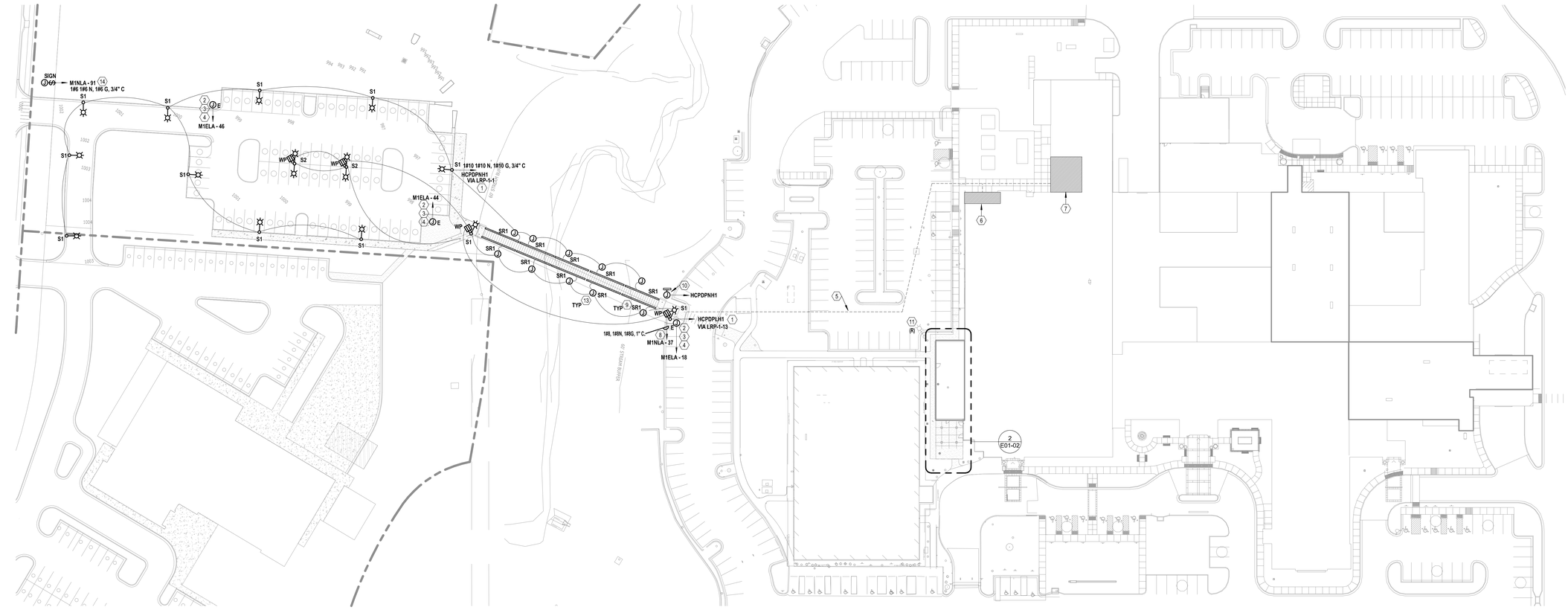
SITE PLAN - PHOTOMETRICS

E01-01

12/4/2024 6:53:38 PM Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_LSMC Med Surg & Dietery Expansion_R23.rvt



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



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

GENERAL NOTES

A. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES
B. REFER TO SHEET E08 SERIES FOR FEEDER AND PANELBOARD SCHEDULES.
C. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES
D. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO: SMOKE DAMPERS, FIRE/SMOKE DAMPERS, VAV BOXES, FCU'S, ETC. WITH MECHANICAL DRAWINGS AND DIVISION 23 CONTRACTOR
E. COORDINATE LOCATIONS OF ALL DISCONNECTS, CONTROL PANELS, AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES.

LEGEND NOTES

1. CONTROL VIA NEW 'LRP-1'. REFER TO SCHEDULE ON E08-01.
2. EMERGENCY "BLUE" PHONE LOCATION. PROVIDE TALKAPHONE ETP-MTE ECO TOWER W/ BLUE STROBE LIGHT, ETE-MTE-ARM CAMERA MOUNTING ARM, AND VOIP-500E CALL STATION. A 3-LENS CAMERA SHALL BE INSTALLED ON CAMERA ARM. BLUE PHONE SHALL HAVE ADA COMPLIANT ACCESSIBILITY FOR PEDESTRIANS.
3. PROVIDE 1 1/2" CONDUIT FROM EMERGENCY PHONE TOWER TO HOSPITAL. CONDUIT SHALL ENTER BUILDING AT NEW CONSTRUCTION AREA AND SHALL TERMINATE IN AN ACCESSIBLE ABOVE CEILING SPACE WITHIN THAT AREA. PROVIDE BELDEN 6-STRAND FIBER OPTIC SINGLE-MODE OSP CABLE (W/ LC FIELD INSTALLABLE CONNECTORS) FROM EMERGENCY PHONE TO COMM ROOM 1-ME1066. COMMERCIAL GRADE LC SINGLE-MODE FIBER OPTIC TRANSCEIVERS/ MEDIA CONVERTERS SHALL BE UTILIZED FOR DATA COMMUNICATIONS.
4. PROVIDE 120V/1P EMERGENCY POWER FOR THE "BLUE" PHONE. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.
5. CONCRETE ENCASED CONDUIT TO ROUTE UNDERGROUND TO THE NEW BRIDGE AND REMOTE PARKING LOT LIGHT FIXTURES AND POWER DEVICES; TRENCH EXISTING PARKING LOT TO INSTALL NEW CONDUIT. REFER TO E07 SHEETS FOR DETAILS.
6. PANELBOARDS M1ELA AND M1NLA LOCATED IN EXTERIOR ELECTRICAL ROOMS 1-ME1131A AND 1-ME1131, RESPECTIVELY.
7. DISTRIBUTION PANELBOARDS HCPDPNH1 AND HCPDPLH1 LOCATED IN MAIN NORMAL ELECTRICAL ROOM 1-CP2002 AND MAIN EMERGENCY ELECTRICAL ROOM 1-CP2001, RESPECTIVELY.
8. PROVIDE WIRE SIZE AS INDICATED TO POLE BOX AND THEN SPLICE DOWN TO 1#12, 1# 12N, 1#12G AND MAKE CONNECTION TO RECEPTACLE.
9. REFER TO ARCHITECTURAL SPECIFICATIONS FOR RAILING PRODUCT AND INSTALLATION REQUIREMENTS.
10. PROVIDE 480V/3P POWER TO SNOW MELT CONTROL PANEL. COORDINATE EXACT LOCATION WITH THE SNOWMELT SYSTEM VENDOR.
11. RELOCATE EXISTING LIGHT POLE.
12. CIRCUIT ON 'M1CLA-1' AND ASSOCIATED LIGHTING CONTROL CIRCUIT THAT IS CURRENTLY SERVING THIS AREA.
13. PROVIDE NEMA 3R ENCLOSURE FOR EACH LIGHT FIXTURE 'SR1' DRIVER. COORDINATE ACCESSIBLE MOUNTING LOCATION WITH MANUFACTURER.
14. PROVIDE WIRE SIZE AS INDICATED TO BOX AND THEN SPLICE DOWN TO 1#12, 1#12N, 1# 12G AND MAKE CONNECTION TO SIGN.

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PROFESSIONAL ENGINEER

12/05/2024
WSP USA Buildings Inc. 2013001881

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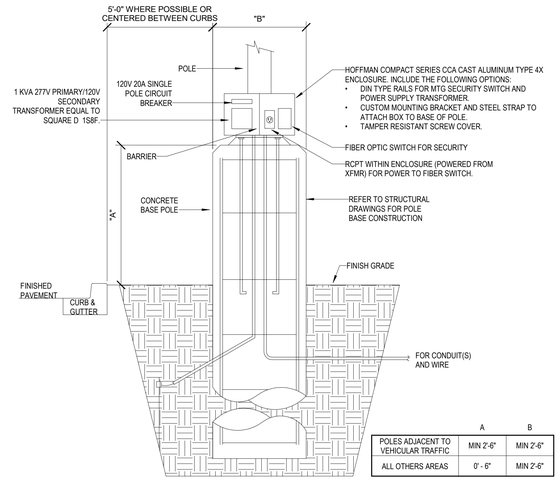
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SITE PLAN - ELECTRICAL

E01-02

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	A	B
POLES ADJACENT TO VEHICULAR TRAFFIC	MIN 2'-6"	MIN 2'-6"
ALL OTHERS AREAS	0' - 6"	MIN 2'-6"

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

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INTERIM REVIEW ONLY

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Engineer: MINDY WAKILER
Eng. Reg. No.: PE-2017000125
Date: 07/24/2024
Firm: 2013001881

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DETAILS - ELECTRICAL

DP-E07-01

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EXTERIOR ELECTRICAL LUMINAIRE FIXTURE SCHEDULE

TYPE	PHYSICAL DESCRIPTION							ELECTRICAL SPECIFICATIONS								MANUFACTURER INFORMATION		
	DESCRIPTION	LOCATION	HOUSING	REFLECTOR	SHIELDING	FINISH	MOUNTING	COLOR TEMP.	LAMP	LUMENS	HOURS	VA	UNITS	BALLAST / DRIVER	VOLTAGE	MANUFACTURER	CATALOG NUMBER	REMARKS
M1	7" LED ROUND DOWNLIGHT	CANOPY	SHALLOW, LESS THAN 1", SOLID RING	DIFFUSE LENS	N/A	WHITE FINISH	SURFACE MOUNTED	4,000	LED	1,301	50000	12	EACH	LED DRIVER	120	JUNO	#JSF 7IN 10LM SWW5 90CRI MVOLT ZT	
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 2'6" 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 2'6" 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-BODB-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 0	
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
MAIN BUS: 100 A
MCB: N/A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: EXISTING
AIC RATING: 10000 A

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

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

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A	B	C	CIRCUIT BREAKER POLES /...	TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	2
3	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	4
5	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	6
7	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	8
9	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	10
11	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	12
13	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	14
15	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	16
17	EXISTING LOAD	--	20 1				1 20	**200**	**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**	**200**	**REMOTE LOT PHONE**	**44**
45	EXISTING LOAD	--	20 1				**1 20**	**200**	**REMOTE LOT PHONE**	**46**
47	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	48
49	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	50
51	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	52
53	SPARE	--	20 1				1 20	--	EXISTING LOAD	54
55	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	56
57	SPARE	--	20 1				1 20	--	EXISTING LOAD	58
59	SPARE	--	20 1				1 20	--	EXISTING LOAD	60
61	EXISTING LOAD	--	20 1				1 20	--	SPARE	62
63	EXISTING LOAD	--	20 1				1 20	--	SPARE	64
65	EXISTING LOAD	--	20 1				1 20	--	SPARE	66
67	EXISTING LOAD	--	20 1				1 20	--	EXISTING LOAD	68
69	EXISTING LOAD	--	30 2				1 20	--	SPARE	70
71	--	--	-- --				1 20	--	SPARE	72
73	EXISTING LOAD	--	30 2				1 20	--	EXISTING LOAD	74
75	--	--	-- --				1 20	--	EXISTING LOAD	76
77	SPARE	--	20 1				1 20	--	EXISTING LOAD	78
79	SPARE	--	20 1				3 30	--	EXISTING LOAD	80
81	SPARE	--	20 1				-- --	--	--	82
83	SPARE	--	20 1				-- --	--	--	84

2 A / 2 A / 2 A

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS		
				kVA	AMPS
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
MAIN BUS: 225 A
MCB: N/A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: EXISTING
AIC RATING: 10000 A

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

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

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

8 A / 0 A / 3 A

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS		
				kVA	AMPS
LGHT	264	330			
MISC	200	200	EXISTING CONNECTED LOAD:	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:

FEEDER SCHEDULE 600V MAX.

FEEDER TAG & AMPERE RATING	FEEDER DESCRIPTION
15.3, 20.3 15.4, 20.4	3#12, 1#12 G, 3/4" C 3#12, 1#12 N, 1#12 G, 3/4" C
25.3, 30.3 25.4, 30.4	3#10, 1#10 G, 3/4" C 3#10, 1#10 N, 1#10 G, 3/4" C
35.3, 40.3 35.4, 40.4	3#8, 1#10 G, 3/4" C 3#8, 1#8 N, 1#10 G, 3/4" C
45.3, 50.3 45.4, 50.4	3#6, 1#10 G, 3/4" C 3#6, 1#6 N, 1#10 G, 1" C
60.3 60.4	3#4, 1#10 G, 1" C 3#4, 1#4 N, 1#10 G, 1 1/4" C
70.3 70.4	3#4, 1#8 G, 1" C 3#4, 1#4 N, 1#8 G, 1-1/4" C
80.3 80.4	3#3, 1#8 G, 1-1/4" C 3#3, 1#3 N, 1#8 G, 1-1/4" C
90.3 90.4	3#2, 1#8 G, 1-1/4" C 3#2, 1#2 N, 1#8 G, 1-1/4" C
100.3 100.4	3#1, 1#8 G, 1-1/4" C 3#1, 1#1 N, 1#8 G, 1-1/2" C
110.3 110.4	3#1, 1#6 G, 1-1/4" C 3#1, 1#1 N, 1#6 G, 1-1/2" C
125.3, 150.3 125.4, 150.4	3#1/0, 1#6 G, 1-1/2" C 3#1/0, 1#1/0 N, 1#6 G, 2" C
175.3 175.4	3#2/0, 1#6 G, 2" C 3#2/0, 1#2/0 N, 1#6 G, 2" C
200.3 200.4	3#3/0, 1#6 G, 2" C 3#3/0, 1#3/0 N, 1#6 G, 2" C
225.3 225.4	3#4/0, 1#4 G, 2" C 3#4/0, 1#4/0 N, 1#4 G, 2-1/2" C
250.3 250.4	3#250KCM, 1#4 G, 2-1/2" C 3#250KCM, 1-250KCM N, 1#4 G, 2-1/2" C
300.3 300.4	3#350KCM, 1#4 G, 2-1/2" C 3#350KCM, 1-350KCM N, 1#4 G, 3" C
350.3 350.4	3#500KCM, 1#3 G, 3" C 3#500KCM, 1-500KCM N, 1#3 G, 3-1/2" C
400.3 400.4	2 SETS EACH OF [3#3/0, 1#3 G, 2" C] 2 SETS EACH OF [3#3/0, 1#3/0 N, 1#3 G, 2-1/2" C]
450.3 450.4	2 SETS EACH OF [3#4/0, 1#2 G, 2" C] 2 SETS EACH OF [3#4/0, 1#4/0 N, 1#2 G, 2-1/2" C]
500.3 500.4	2 SETS EACH OF [3#250KCM, 1#2 G, 2-1/2" C] 2 SETS EACH OF [3#250KCM, 1#250KCM N, 1#2 G, 2-1/2" C]
600.3 600.4	2 SETS EACH OF [3#350KCM, 1#1 G, 2-1/2" C] 2 SETS EACH OF [3#350KCM, 1#350KCM N, 1#1 G, 3" C]
700.3 700.4	2 SETS EACH OF [3#500KCM, 1#1/0 G, 3" C] 2 SETS EACH OF [3#500KCM, 1#500KCM N, 1#1/0 G, 3-1/2" C]
800.3 800.4	3 SETS EACH OF [3#300KCM, 1#1/0 G, 3" C] 3 SETS EACH OF [3#300KCM, 1#300KCM N, 1#1/0 G, 3" C]
900.3 900.4	3 SETS EACH OF [3#350KCM, 1#2/0 G, 3" C] 3 SETS EACH OF [3#350KCM, 1#350KCM N, 1#2/0 G, 3" C]
1000.3 1000.4	3 SETS EACH OF [3#400KCM, 1#2/0 G, 3" C] 3 SETS EACH OF [3#400KCM, 1#400KCM N, 1#2/0 G, 3" C]
1200.3 1200.4	4 SETS EACH OF [3#350KCM, 1#3/0 G, 3" C] 4 SETS EACH OF [3#350KCM, 1#350KCM N, 1#3/0 G, 3" C]
1400.3 1400.4	4 SETS EACH OF [3#500KCM, 1#4/0 G, 3" C] 4 SETS EACH OF [3#500KCM, 1#500KCM N, 1#4/0 G, 3-1/2" C]
1600.3 1600.4	5 SETS EACH OF [3#400KCM, 1#4/0 G, 3" C] 5 SETS EACH OF [3#400KCM, 1#400KCM N, 1#4/0 G, 3" C]
2000.3 2000.4	6 SETS EACH OF [3#400KCM, 1#250KCM G, 3" C] 6 SETS EACH OF [3#400KCM, 1#400KCM N, 1#250KCM G, 3" C]
2500.3 2500.4	7 SETS EACH OF [3#500KCM, 1#350KCM G, 3-1/2" C] 7 SETS EACH OF [3#500KCM, 1#500KCM N, 1#350KCM G, 3-1/2" C]
3000.3 3000.4	8 SETS EACH OF [3#500KCM, 1#400KCM G, 3" C] 8 SETS EACH OF [3#500KCM, 1#500KCM N, 1#400KCM G, 3-1/2" C]
4000.3 4000.4	11 SETS EACH OF [3#500KCM, 1#500KCM G, 3-1/2" C] 11 SETS EACH OF [3#500KCM, 1#500KCM N, 1#500KCM G, 3-1/2" C]

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Consultant:

INTERIM REVIEW ONLY

These documents are incomplete, and are released for interim review only and are not intended for regulatory approval, permit, or construction purposes.

Engineer: MINDY WAKILER
Eng. Reg. No.: PE-2017000120
Date: 07/24/2024
Firm: 2013001861

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SITE & BRIDGE EARLY RELEASE PACKAGE

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

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

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	2024/07/24
SCALE:	N.T.S.
DRAWN:	Author
REVIEWED:	Checker
JOB NUMBER:	6406.24

SCHEDULES - ELECTRICAL

DP-E08-01

7/24/2024 3:30:48 PM Autodesk Docs://6406.24.0001 - HCA - LSMC MedSurg Expansion_rvt23/MEP - LSMC Med Surge Expansion_v23.rvt

JUNO

Juno SlimForm™ LED with Selectable CCT

5" and 7" Round Downlight for JBox Installation

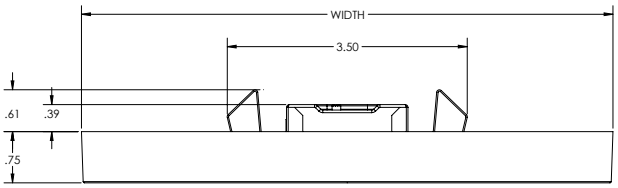
Project:
Fixture Type:
Location:
Contact/Phone:

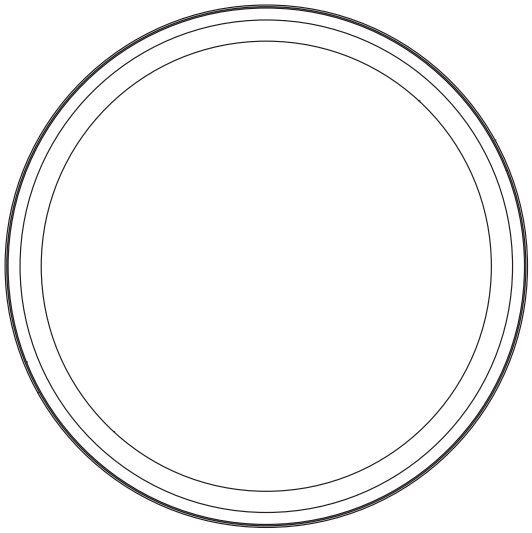
JSF Series





Dimensions





Product Features

Sleek, ultra-low profile energy efficient LED surface mount downlights available in 5" and 7" sizes. Optional finish trims available for custom, designer look similar to standard recessed downlights. Provides general illumination in residential and commercial applications including multi-family and hospitality. Ideal for use in corridors, living spaces, closets, hallways, pantries, stairways, outdoor covered areas and much more.

With the newly added selectable CCT switch, the JSF gives the ultimate in flexibility for both the distributor as well as the end user.

Applications

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

Performance

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

Specifications

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

All dimensions are in Inches (centimeters unless otherwise indicated.

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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 LGL[2]** White Low Glare Lens **BL LGL[2]** Black Low Glare Lens **BZ LGL[2]** Bronze Low Glare Lens **SN LGL[2]** Satin Nickel Low Glare Lens

Note:

1 Trim Accessories must be ordered separately with white finish only. Not available with LGL option.

2 Trim finishes with LGL option ship complete. See Accessories if ordering without LGL.

ACCESSORIES[1]

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.

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Juno SlimForm™ LED with Selectable CCT

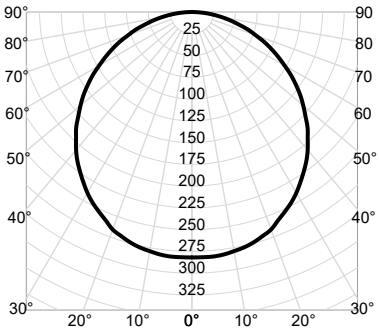
5" and 7" Round Downlight for JBox Installation



JSF

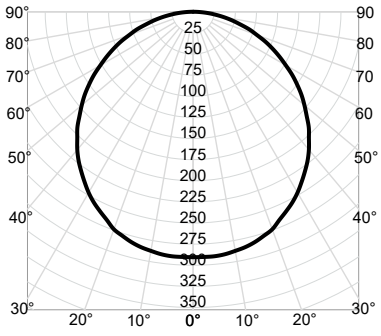
PHOTOMETRICS

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



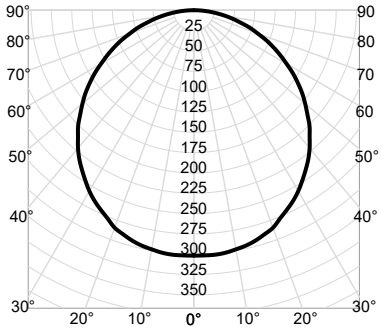
CP Summary		Zonal Lumen Summary			Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
					ρf			20%							Mounting Height	Initial FC Center Beam	Beam Diameter		
	0°	Zone	Lumens	% Fixture	ρc	80%			70%			50%							Average Luminance
					ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%					
0°	282	0° - 30°	220	28%	0	119	119	119	116	116	116	111	111	111	6.0	7.8	17.9	0°	31,550
5°	282	0° - 40°	358	45%	1	104	100	96	102	98	94	98	94	91	8.0	4.4	23.8	45°	29,745
15°	274	0° - 60°	625	79%	2	91	84	78	89	82	77	85	80	75	10.0	2.8	29.8	55°	28,478
25°	253	0° - 90°	791	100%	3	80	71	65	78	70	64	75	69	63	12.0	2.0	35.8	65°	26,737
35°	224	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	1.4	41.7	75°	24,207
45°	188	0° - 180°	791	100%	5	63	54	47	62	54	47	60	52	47				85°	21,822
55°	146				6	57	48	41	56	47	41	54	47	41	Beam Angle: 112.3°				
65°	101				7	52	43	37	51	42	36	49	42	36	Field Angle: 163.9°				
75°	56				8	47	39	33	46	38	33	45	38	32					
85°	17				9	43	35	29	43	35	29	42	34	29					
90°	0				10	40	32	27	39	32	27	38	31	27					

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



CP Summary		Zonal Lumen Summary			Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
					ρf			20%							Mounting Height	Initial FC Center Beam	Beam Diameter		
	0°	Zone	Lumens	% Fixture	ρc	80%			70%			50%							Average Luminance
					ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%					
0°	290	0° - 30°	227	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.1	17.9	0°	32,496
5°	290	0° - 40°	369	45%	1	104	100	96	102	98	94	98	94	91	8.0	4.5	23.8	45°	30,638
15°	282	0° - 60°	643	79%	2	91	84	78	89	82	77	85	80	75	10.0	2.9	29.8	55°	29,332
25°	261	0° - 90°	814	100%	3	80	71	65	78	70	64	75	69	63	12.0	2.0	35.8	65°	27,539
35°	231	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	1.5	41.7	75°	24,933
45°	194	0° - 180°	814	100%	5	63	54	47	62	54	47	60	52	47				85°	22,477
55°	150				6	57	48	41	56	47	41	54	47	41	Beam Angle: 112.3°				
65°	104				7	52	43	37	51	42	36	49	42	36	Field Angle: 163.9°				
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)	
					ρf			20%							Mounting Height	Initial FC Center Beam	Beam Diameter		
	0°	Zone	Lumens	% Fixture	ρc	80%			70%			50%							Average Luminance
					ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%					
0°	302	0° - 30°	236	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.4	17.9	0°	33,758
5°	302	0° - 40°	383	45%	1	104	100	96	102	98	94	98	94	91	8.0	4.7	23.8	45°	31,827
15°	293	0° - 60°	668	79%	2	91	84	78	89	82	77	85	80	75	10.0	3.0	29.8	55°	30,471
25°	271	0° - 90°	846	100%	3	80	71	65	78	70	64	75	69	63	12.0	2.1	35.8	65°	28,609
35°	240	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	1.5	41.7	75°	25,901
45°	201	0° - 180°	846	100%	5	63	54	47	62	54	47	60	52	47				85°	23,350
55°	156				6	57	48	41	56	47	41	54	47	41	Beam Angle: 112.3°				
65°	108				7	52	43	37	51	42	36	49	42	36	Field Angle: 163.9°				
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					

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JUNO

Juno SlimForm™ LED with Selectable CCT

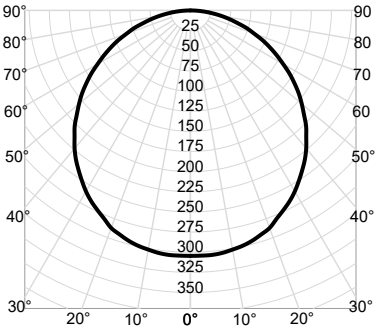
5" and 7" Round Downlight for JBox Installation



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

0°	
0°	305
5°	305
15°	296
25°	273
35°	242
45°	203
55°	158
65°	109
75°	60
85°	18
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	238	28%
0° - 40°	386	45%
0° - 60°	675	79%
0° - 90°	854	100%
90° - 180°	0	0%
0° - 180°	854	100%

Coefficients of Utilization

ρf	20%									
ρc	80%			70%			50%			
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	119	119	119	116	116	116	111	111	111	
1	104	100	96	102	98	94	98	94	91	
2	91	84	78	89	82	77	85	80	75	
3	80	71	65	78	70	64	75	69	63	
4	71	62	55	69	61	55	67	60	54	
5	63	54	47	62	54	47	60	52	47	
6	57	48	41	56	47	41	54	47	41	
7	52	43	37	51	42	36	49	42	36	
8	47	39	33	46	38	33	45	38	32	
9	43	35	29	43	35	29	42	34	29	
10	40	32	27	39	32	27	38	31	27	

Cone of Light

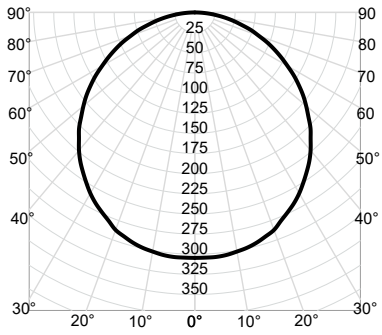
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	8.5	17.9
8.0	4.8	23.8
10.0	3.0	29.8
12.0	2.1	35.8
14.0	1.6	41.7

Beam Angle: 112.3°
Field Angle: 163.9°

Luminance (cd/sq.m)

Average Luminance	
0°	34,074
45°	32,125
55°	30,756
65°	28,876
75°	26,143
85°	23,568

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

0°	
0°	305
5°	305
15°	296
25°	273
35°	242
45°	203
55°	158
65°	109
75°	60
85°	18
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	238	28%
0° - 40°	386	45%
0° - 60°	675	79%
0° - 90°	854	100%
90° - 180°	0	0%
0° - 180°	854	100%

Coefficients of Utilization

ρf	20%									
ρc	80%			70%			50%			
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	119	119	119	116	116	116	111	111	111	
1	104	100	96	102	98	94	98	94	91	
2	91	84	78	89	82	77	85	80	75	
3	80	71	65	78	70	64	75	69	63	
4	71	62	55	69	61	55	67	60	54	
5	63	54	47	62	54	47	60	52	47	
6	57	48	41	56	47	41	54	47	41	
7	52	43	37	51	42	36	49	42	36	
8	47	39	33	46	38	33	45	38	32	
9	43	35	29	43	35	29	42	34	29	
10	40	32	27	39	32	27	38	31	27	

Cone of Light

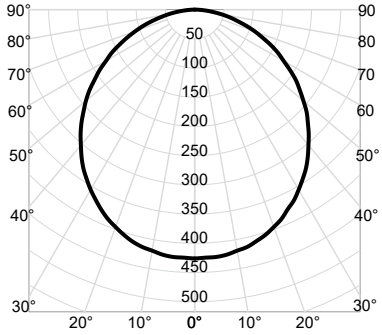
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	8.5	17.9
8.0	4.8	23.8
10.0	3.0	29.8
12.0	2.1	35.8
14.0	1.6	41.7

Beam Angle: 112.3°
Field Angle: 163.9°

Luminance (cd/sq.m)

Average Luminance	
0°	34,074
45°	32,125
55°	30,756
65°	28,876
75°	26,143
85°	23,568

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

0°	
0°	426
5°	425
15°	410
25°	377
35°	332
45°	274
55°	212
65°	144
75°	76
85°	20
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	331	28%
0° - 40°	538	45%
0° - 60°	937	79%
0° - 90°	1,182	100%
90° - 180°	0	0%
0° - 180°	1,182	100%

Coefficients of Utilization

ρf	20%									
ρc	80%			70%			50%			
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	119	119	119	116	116	116	111	111	111	
1	104	100	96	102	98	94	97	94	91	
2	91	84	78	89	83	77	85	80	75	
3	80	72	65	78	71	64	75	69	63	
4	71	62	55	69	61	55	67	60	54	
5	63	54	48	62	54	47	60	52	47	
6	57	48	42	56	47	41	54	47	41	
7	52	43	37	51	42	37	49	42	36	
8	47	39	33	46	38	33	45	38	32	
9	43	35	29	43	35	29	42	34	29	
10	40	32	27	39	32	27	38	31	27	

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	11.8	16.9
8.0	6.7	22.5
10.0	4.3	28.2
12.0	3.0	33.8
14.0	2.2	39.5

Beam Angle: 109.3°
Field Angle: 161.5°

Luminance (cd/sq.m)

Average Luminance	
0°	18,617
45°	16,934
55°	16,153
65°	14,891
75°	12,833
85°	10,029

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Juno SlimForm™ LED with Selectable CCT

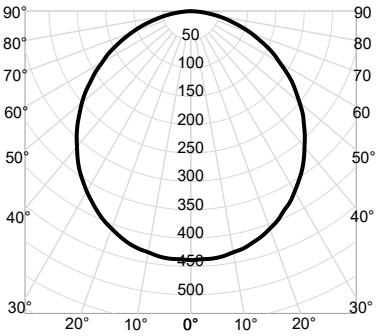
5" and 7" Round Downlight for JBox Installation



JSF

PHOTOMETRICS

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



CP Summary		Zonal Lumen Summary		
	0°	Zone	Lumens	% Fixture
0°	439	0° - 30°	341	28%
5°	438	0° - 40°	554	45%
15°	422	0° - 60°	966	79%
25°	388	0° - 90°	1,218	100%
35°	342	90° - 180°	0	0%
45°	282	0° - 180°	1,218	100%
55°	218			
65°	148			
75°	78			
85°	21			
90°	0			

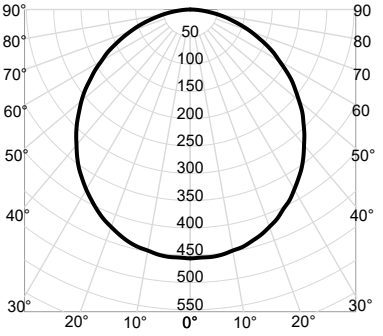
Coefficients of Utilization										
ρf			20%							
ρc		80%			70%			50%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	104	100	96	102	98	94	97	94	91
2	91	84	78	89	83	77	85	80	75
3	80	72	65	78	71	64	75	69	63
4	71	62	55	69	61	55	67	60	54
5	63	54	48	62	54	47	60	52	47
6	57	48	42	56	47	41	54	47	41
7	52	43	37	51	42	37	49	42	36
8	47	39	33	46	38	33	45	38	32
9	43	35	29	43	35	29	42	34	29
10	40	32	27	39	32	27	38	31	27

Cone of Light		
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	12.2	16.9
8.0	6.9	22.5
10.0	4.4	28.2
12.0	3.0	33.8
14.0	2.2	39.5

Beam Angle: 109.3°
Field Angle: 161.5°

Luminance (cd/sq.m)	
	Average Luminance
0°	19,176
45°	17,442
55°	16,637
65°	15,338
75°	13,218
85°	10,329

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



CP Summary		Zonal Lumen Summary		
	0°	Zone	Lumens	% Fixture
0°	456	0° - 30°	354	28%
5°	455	0° - 40°	575	45%
15°	439	0° - 60°	1,003	79%
25°	403	0° - 90°	1,265	100%
35°	355	90° - 180°	0	0%
45°	293	0° - 180°	1,265	100%
55°	227			
65°	154			
75°	81			
85°	21			
90°	0			

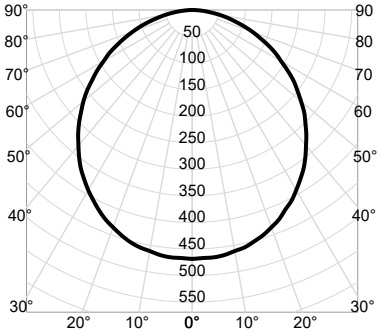
Coefficients of Utilization										
ρf			20%							
ρc		80%			70%			50%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	104	100	96	102	98	94	97	94	91
2	91	84	78	89	83	77	85	80	75
3	80	72	65	78	71	64	75	69	63
4	71	62	55	69	61	55	67	60	54
5	63	54	48	62	54	47	60	52	47
6	57	48	42	56	47	41	54	47	41
7	52	43	37	51	42	37	49	42	36
8	47	39	33	46	38	33	45	38	32
9	43	35	29	43	35	29	42	34	29
10	40	32	27	39	32	27	38	31	27

Cone of Light		
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	12.7	16.9
8.0	7.1	22.5
10.0	4.6	28.2
12.0	3.2	33.8
14.0	2.3	39.5

Beam Angle: 109.3°
Field Angle: 161.5°

Luminance (cd/sq.m)	
	Average Luminance
0°	19,920
45°	18,120
55°	17,284
65°	15,933
75°	13,731
85°	10,731

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



CP Summary		Zonal Lumen Summary		
	0°	Zone	Lumens	% Fixture
0°	469	0° - 30°	364	28%
5°	468	0° - 40°	592	45%
15°	451	0° - 60°	1,031	79%
25°	415	0° - 90°	1,300	100%
35°	365	90° - 180°	0	0%
45°	301	0° - 180°	1,301	100%
55°	233			
65°	158			
75°	84			
85°	22			
90°	0			

Coefficients of Utilization										
ρf			20%							
ρc		80%			70%			50%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	104	100	96	102	98	94	97	94	91
2	91	84	78	89	83	77	85	80	75
3	80	72	65	78	71	64	75	69	63
4	71	62	55	69	61	55	67	60	54
5	63	54	48	62	54	47	60	52	47
6	57	48	42	56	47	41	54	47	41
7	52	43	37	51	42	37	49	42	36
8	47	39	33	46	38	33	45	38	32
9	43	35	29	43	35	29	42	34	29
10	40	32	27	39	32	27	38	31	27

Cone of Light		
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	13.0	16.9
8.0	7.3	22.5
10.0	4.7	28.2
12.0	3.3	33.8
14.0	2.4	39.5

Beam Angle: 109.3°
Field Angle: 161.5°

Luminance (cd/sq.m)	
	Average Luminance
0°	20,479
45°	18,628
55°	17,768
65°	16,380
75°	14,116
85°	11,031

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JUNO

Juno SlimForm™ LED with Selectable CCT

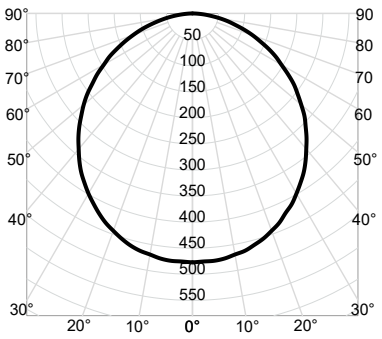
5" and 7" Round Downlight for JBox Installation



JSF

PHOTOMETRICS

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



CP Summary

	0°
0°	477
5°	476
15°	459
25°	422
35°	372
45°	307
55°	237
65°	161
75°	85
85°	22
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	370	28%
0° - 40°	602	45%
0° - 60°	1,050	79%
0° - 90°	1,324	100%
90° - 180°	0	0%
0° - 180°	1,324	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	104	100	96	102	98	94	97	94	91
2	91	84	78	89	83	77	85	80	75
3	80	72	65	78	71	64	75	69	63
4	71	62	55	69	61	55	67	60	54
5	63	54	48	62	54	47	60	52	47
6	57	48	42	56	47	41	54	47	41
7	52	43	37	51	42	37	49	42	36
8	47	39	33	46	38	33	45	38	32
9	43	35	29	43	35	29	42	34	29
10	40	32	27	39	32	27	38	31	27

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	13.3	16.9
8.0	7.5	22.5
10.0	4.8	28.2
12.0	3.3	33.8
14.0	2.4	39.5

Beam Angle: 109.3°
Field Angle: 161.5°

Luminance (cd/sq.m)

	Average Luminance
0°	20,851
45°	18,967
55°	18,091
65°	16,678
75°	14,373
85°	11,232

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LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

FEATURES & SPECIFICATIONS

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

CONSTRUCTION —

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

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

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

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

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

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

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

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

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

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

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

Anchor Base Poles



RSA

ROUND STRAIGHT ALUMINUM

RSA Round Straight Aluminum Poles

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** RSA 16 4-5C DM19 BA

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") 4-5C 4 1/2" (.125") 4-5G 4 1/2" (.188") 5C 5" (.125") 5E 5" (.156") 5G 5" (.188") 6E 6" (.156") 6G 6" (.188") (See technical information table for complete ordering information.)	Tenon mounting PT Open top T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) T35 4" O.D. (3-1/2" NPS) KAC/KAD/KSE/KSF/KVR/KVF Drill mounting[3] 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° CSX/DSX/RSX/AERIS™/OMERO™/HLA/KAX Drill mounting[3] DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM32AS 3 at 120° DM39AS 3 at 90° DM49AS 4 at 90°	RAD drill mounting[3] DM19RAD 1 at 90° DM28RAD 2 at 180° DM29RAD 2 at 90° DM32RAD 3 at 120° DM39RAD 3 at 90° DM49RAD 4 at 90° ESX Drill mounting[3] DM19ESX 1 at 90° DM28ESX 2 at 180° DM29ESX 2 at 90° DM39ESX 3 at 90° DM49ESX 4 at 90°	AERIS™ Suspend drill mounting[3,4] DM19AST_ 1 at 90° DM28AST_ 2 at 180° DM29AST_ 2 at 90° DM39AST_ 3 at 90° DM49AST_ 4 at 90° OMERO™ Suspend drill mounting[3,4] 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)	Super durable paint colors
VD	Vibration damper	DDBXD Dark bronze
TP	Tamper resistant handhole cover fasteners	DBLXD Black
HAxy	Horizontal arm bracket (1 fixture)[5,6]	DNAXD Natural aluminum
FDLxy	Festoon outlet less electrical[5,7]	DWHXD White
CPL12/xy	1/2" I.D. coupling[5]	DDBTXD Textured dark bronze
CPL34/xy	3/4" I.D. coupling[5]	DBLBXD Textured black
CPL1/xy	1" I.D. coupling[5]	DNATXD Textured natural aluminum
NPL12/xy	1/2" O.D. threaded nipple[5]	DWHGXD Textured white
NPL34/xy	3/4" O.D. threaded nipple[5]	Brushed finish
NPL1/xy	1" O.D. threaded nipple[5]	BA Brushed aluminum
EHHxy	Extra handhole[5,8]	Class 1 architectural anodized
BAA	Buy America(n) Act Compliant[9]	ABL Black
UL	UL listed with label (Includes NEC compliant cover)	ADB Dark bronze
NEC	NEC 410.30 compliant gasketed handhole (Not UL Labeled)	ANA Natural
FBC	Full base cover (spun aluminum)	Architectural colors and special finishes
		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 HAxyy. 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).

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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.

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RSA Round Straight Aluminum Poles

TECHNICAL INFORMATION — EPA (ft²) 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

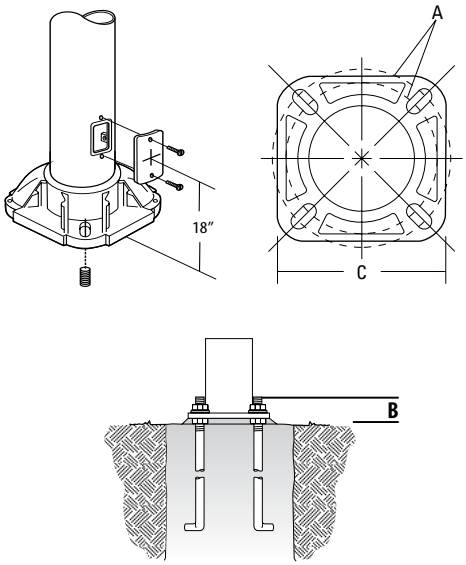
2) Structure weight is a nominal value which includes the pole shaft and base plate only.

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

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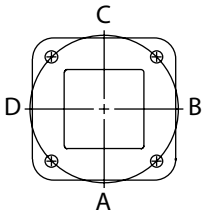
RSA Round Straight Aluminum Poles

BASE DETAIL



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

HANDHOLE ORIENTATION



Handhole

Default DM19 is on side B.

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.

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HYDREL

CATALOG NUMBER

NOTES

TYPE



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

LED

IP65

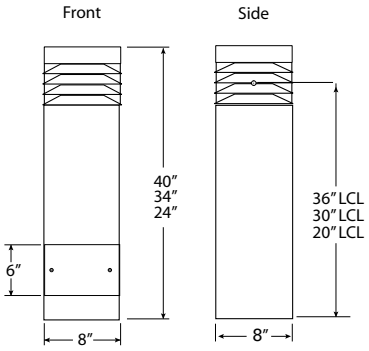
BAA

BABA

Specifications

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

DIMENSIONS

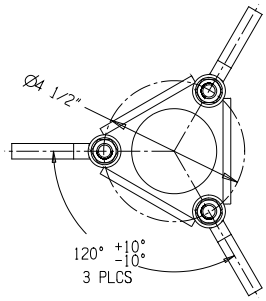


LUMEN PACKAGES

	SYM
Delivered Lumens	1810
Watts	84
LPW	22

Note: Information Based on 50K

MOUNTING



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Phone: 800-705-SERV (7378) • www.hydrel.com

ORDERING INFORMATION

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

Series	Height	Lamp type	Color	Voltage	Distribution	Options[4]
3140C	**H24**	**4COB**[1]	**20K** 2000°K Color Temp	**MVOLT** (120-277 volt)	**SYM** Symetrical 360°	**BLS**[5,6] Bi-Level Switching (Motion Activated)
	H36	**8COB**	**30K** 3000°K Color Temp	**120**[2]	**FT**[3] Forward Throw	**GFCI** Receptacle; 120 volt only, cannot be used with USB
	H42		**40K** 4000°K Color Temp	**277**[2]		**ELN**[5,7] Emergency Operation (1387.5 lumen output; 90 minutes)
			50K 5000°K Color Temp	**347**		**LDIM** 0-10V Dimming (Dims to 10%)
			AMBLW Limited wavelength Amber 591 Nanometers			**IDIM**[6] In-line Trailing Edge ELV Dimming (Dims to 40%); 120 volt only
						USB USB charging port, 120 volt only, cannot be used with GFCI

Finish					
BL	Black	**STG**	Steel Gray	**Optional Louvers Painted**[9]	
BZ	Bronze	**TVG**	Terra Verde Green	**___/PL**	Louvers painted to match fixture (top only)
DDB	Dark Bronze	**WH**	White		
DNA	Natural Aluminum	**CF**	Custom		
GN	Green	**__Z**[8]	Zinc Undercoat		
GR	Gray	**RALTBD**	RAL Paint Finishes		
SND	Sand	Note: RALTBD for pricing only, replace with applicable RAL call out when ready to order. See the RALBROCHURE for available options. It is recommended that Hydrel products only use textured paint.			

ELECTRICAL LOAD

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

PROJECTED LED LUMEN MAINTENANCE

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

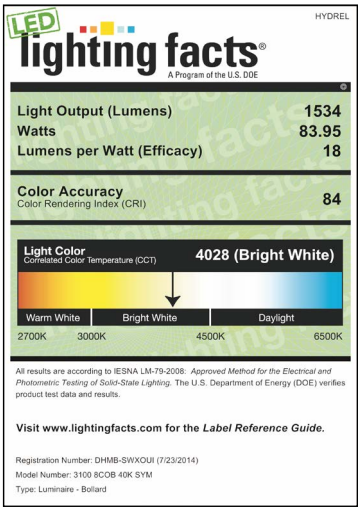
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

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

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

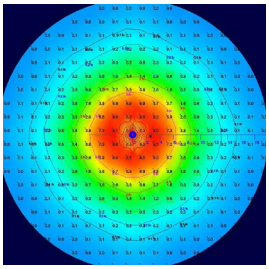


Notes:
1 4COB for use with 20K and AMBLW only, 20K and AMBLW require 4COB.
2 Required with ELN or BLS.
3 FT not available with BLS.
4 BLS is not available with ELN, LDIM or IDIM.
5 ELN and BLS require 120 or 277 voltage, not MVOLT or 347.
6 Drive current will be 250.
7 ELN not available on 24" height.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

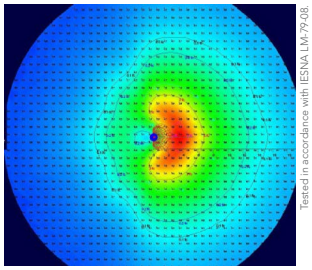
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Phone: 800-705-SERV (7378) • www.hydrel.com

PERFORMANCE DATA

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



SYM



FT

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 environmant and application. Contact Factory for performance data on any configuration not shown here.

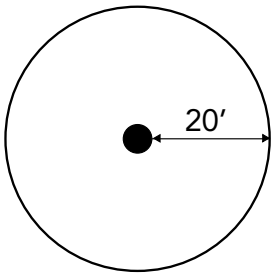
Light Engines	Distribution	Drive Current	System Watt	Lumens	LPW	B	U	G
3000K	SYM	250*	72	1300	18	1	2	1
		300	84	1525	18	1	2	1
4000K	SYM	250*	72	1320	18	1	2	1
		300	84	1535	18	1	2	1
5000K	SYM	250*	72	1535	21	1	2	1
		300	84	1810	22	2	2	1
2000K	SYM	1050	72	900	13	1	2	1

*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.

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iRAIL™ LIGHTED RAILING SYSTEM
PRODUCT DATA

VIVA RAILINGS®
LEADERS IN ARCHITECTURAL RAILING SYSTEMS

DESIGN ◆ ENGINEER ◆ FABRICATE ◆ INSTALL



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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.

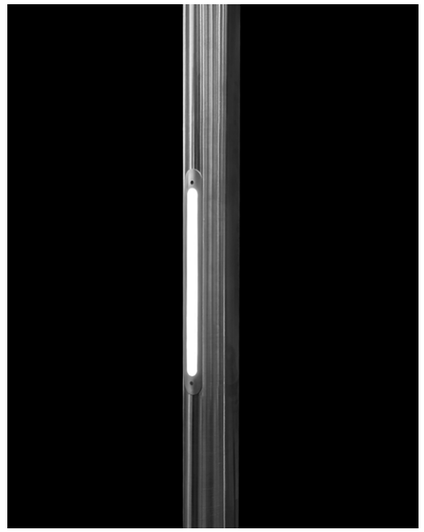
LINEAR



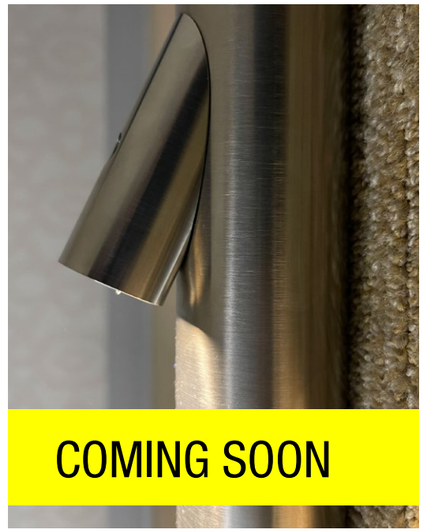
PODS



CAPSULE



SCONCE



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iRAIL™ LED SYSTEM - TECHNICAL DATA

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

	POST	FINISH	SPEC
iRAIL CAPSULE	Ø2" Post Stainless steel (304 or 316) 2"x2"Post Stainless steel(304 or 316)	#6 Satin	Color: 3000K Warm White or 4000K Cool White Output: 1.5W-117 Lumens Sym, 2.5W-190 Lumens Sym, 3.5W-248 Lm Sym. Beam Angle: 120° Orientation: Symmetrical 0° Power: Input 120-277 VAC, Output 24 V DC CRI: >80 Rating: IP67
	Ø2" Post Stainless steel (201) 2"x2"Post Stainless steel (201)	Powder Coat	

Intertek

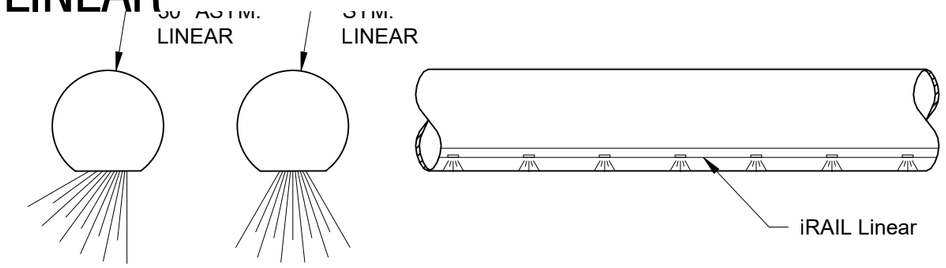
All LED LINEAR products are ETL certified; ETL mark is proof of product compliance to North American safety standard.

2. Other species available upon request

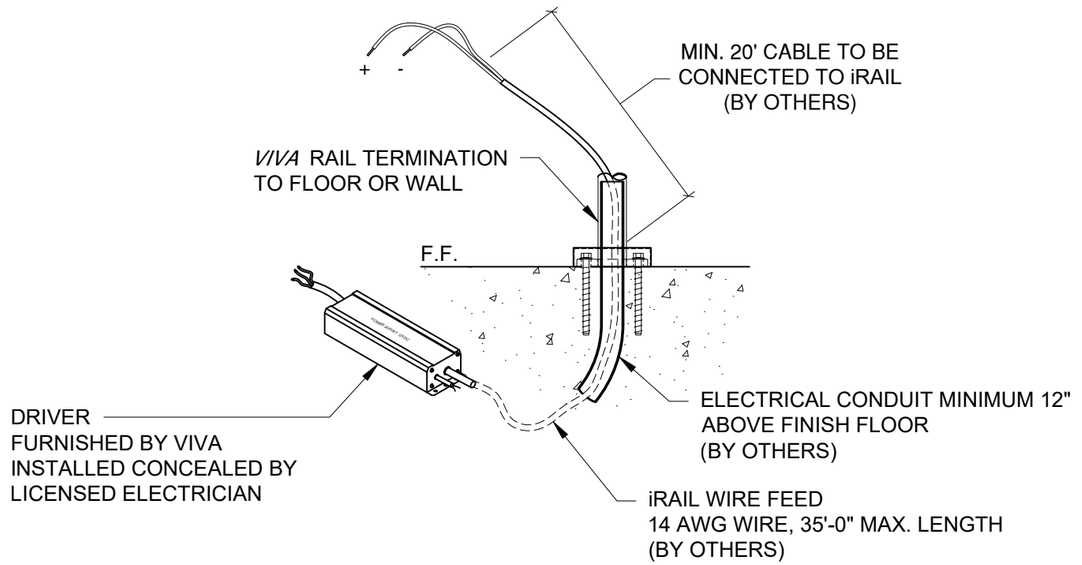
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LIGHTED TOPRAIL / HANDRAIL

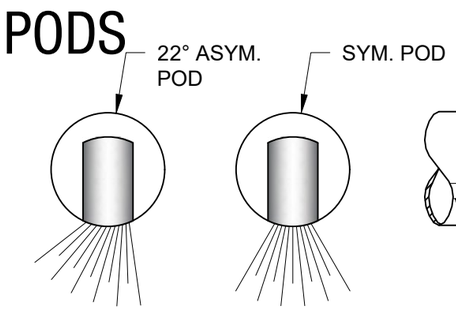
LINEAR



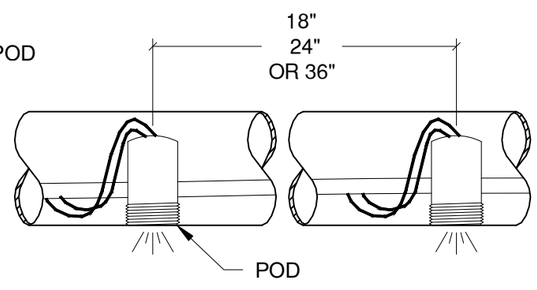
iRAIL LINEAR ORIENTATION OPTIONS



PODS



iRAIL POD ORIENTATION OPTIONS



iRAIL POD SPACING OPTIONS

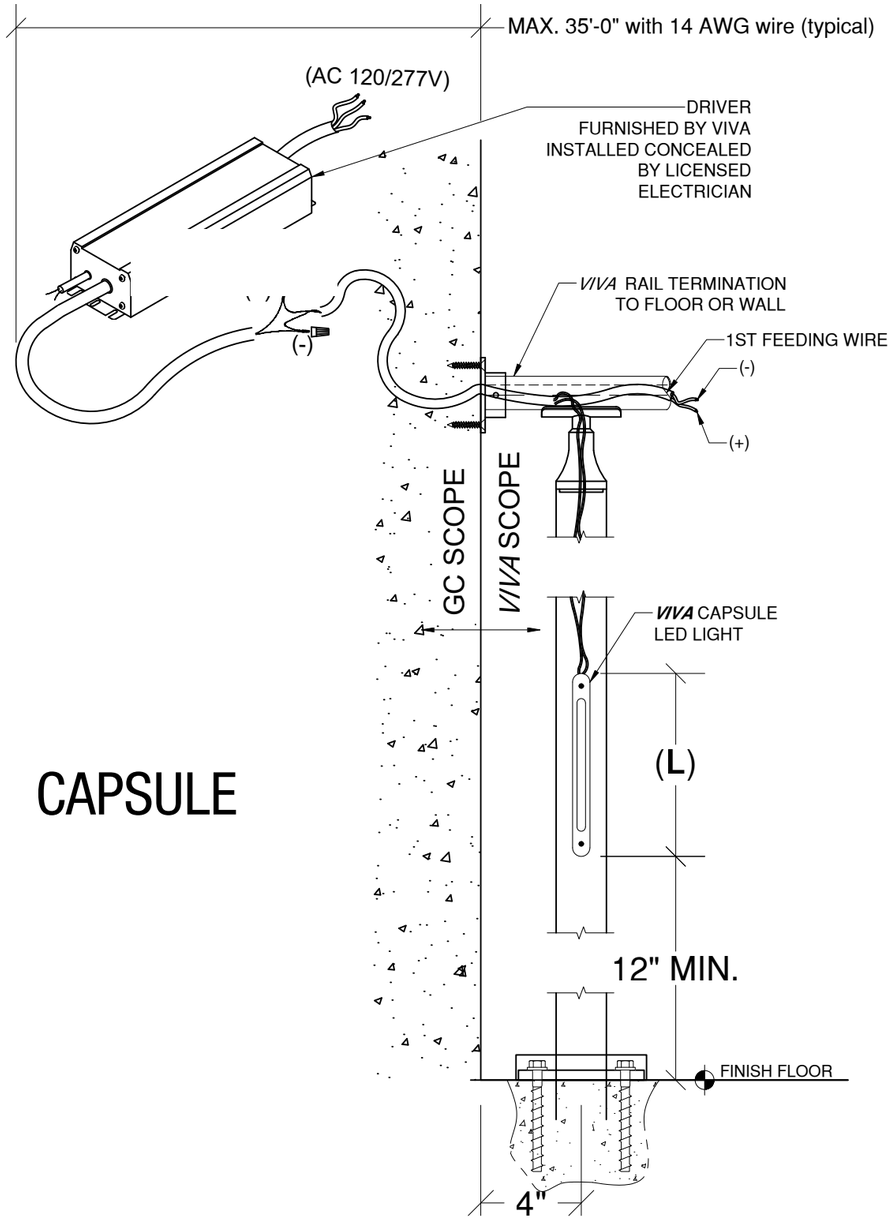
PROVIDE ONE PAIR OF WIRES 14 GA (BLACK-RED) FOR EVERY iRAIL RUN. EVERY iRAIL RUN COVERS:

- 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

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.

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LIGHTED POST



CAPSULE

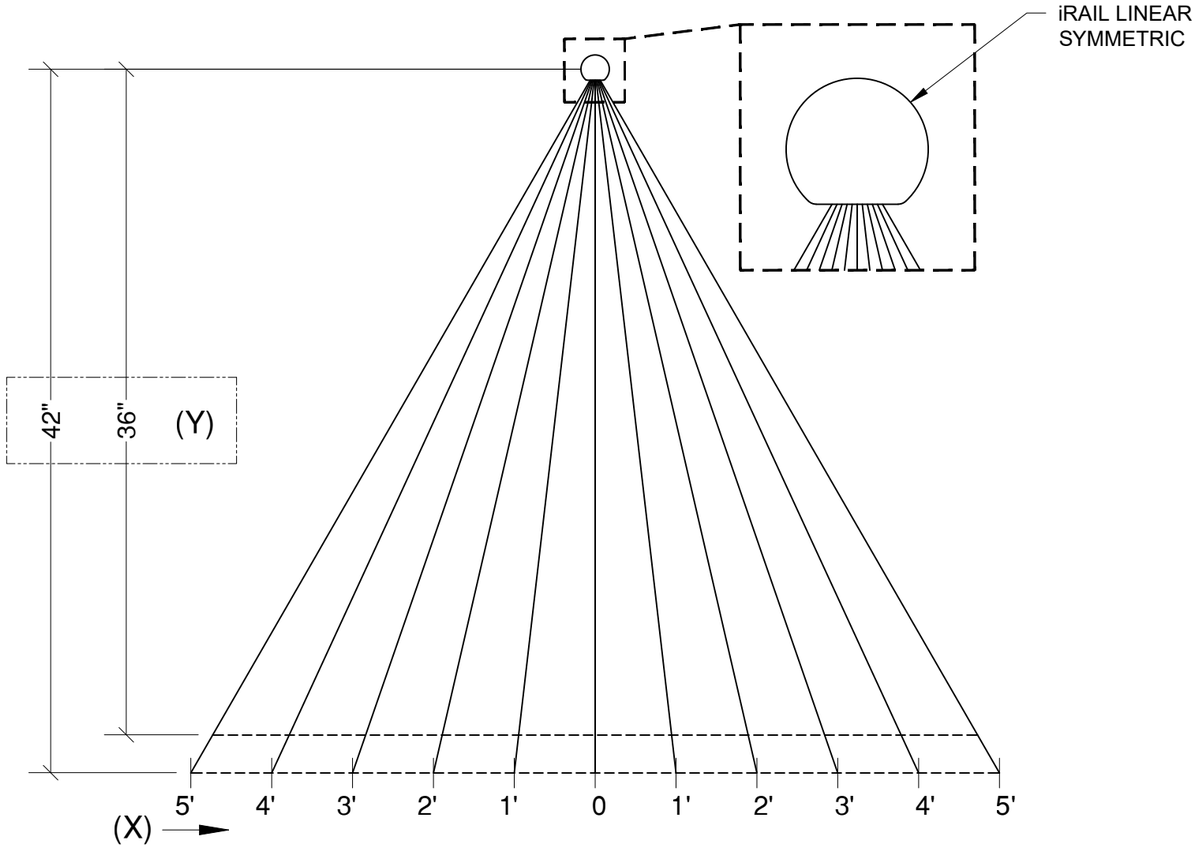
SPECIFICATIONS:

- 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"

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LINEAR DISPERSION DIAGRAM



iRAIL LINEAR LIGHT DISPERSION DIAGRAM

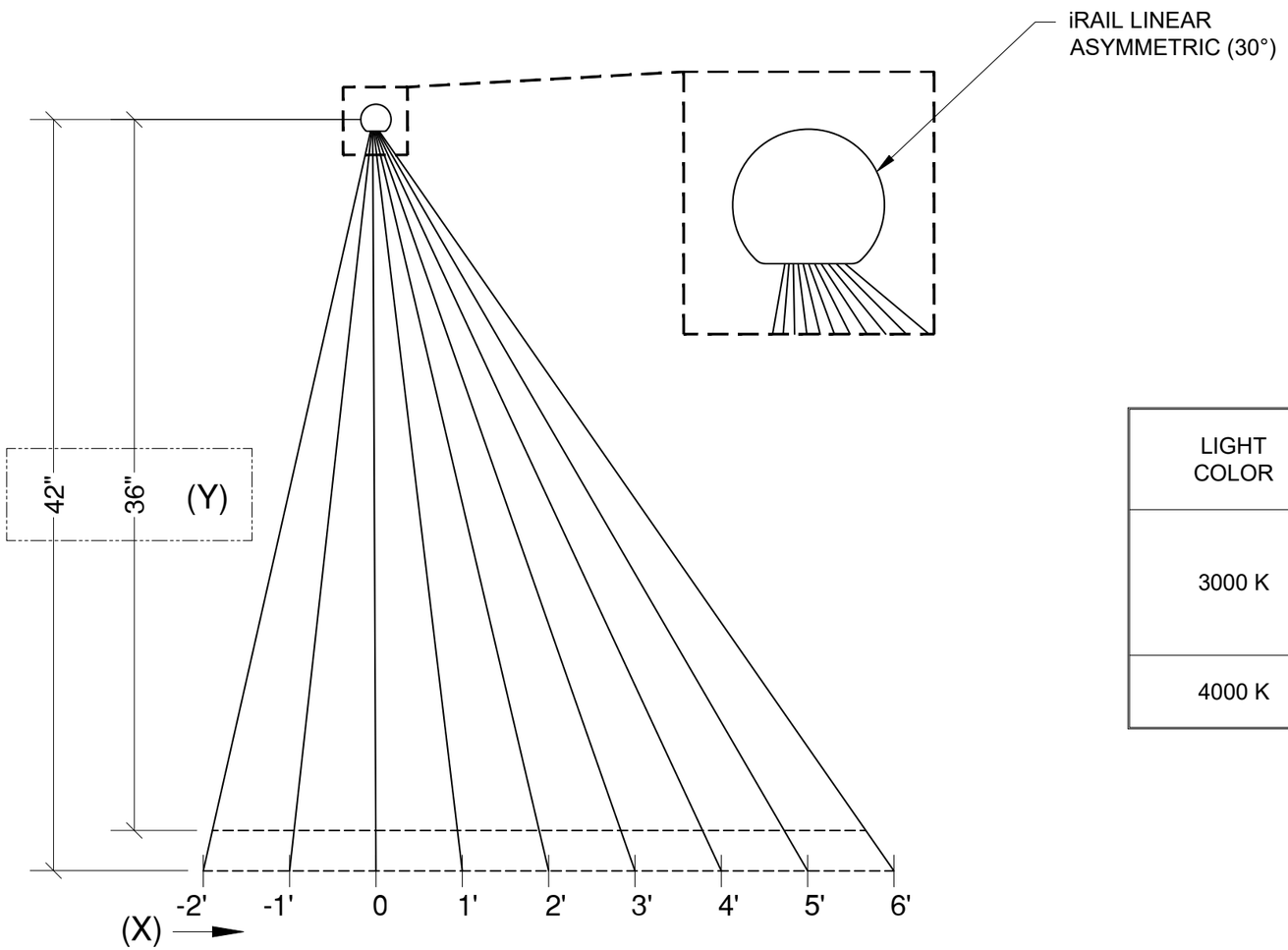
All Values in Foot-Candle (FC) +/-15%, Values using clear lens.

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

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



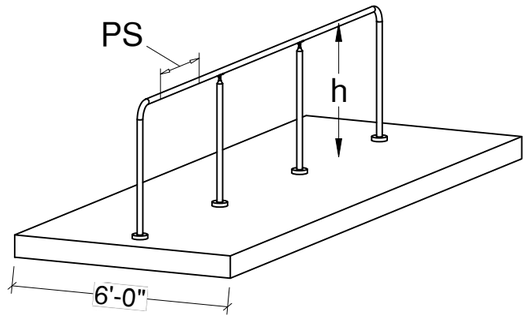
iRAIL LINEAR LIGHT DISPERSION DIAGRAM

All Values in Foot-Candle (FC) +/-15%, Values using clear lens.

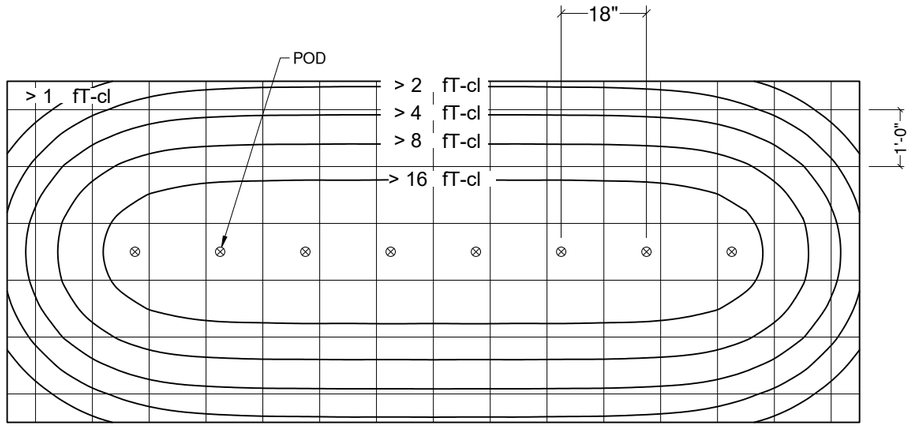
LIGHT COLOR	INTENSITY (OUTPUT)	POWER	X / Y	-2'	-1'	0'	1'	2'	3'	4'	5'
3000 K	MEDIUM 185 lumens/ft	3 W/ft	36"	7.3	18	37.1	53.1	43.9	26.1	14.9	9.1
			42"	8.0	16.8	30.6	43.3	40.8	27.8	17.2	10.
	HIGH 250 lumens/ft	5 W/ft	36"	8.0	17.7	38.4	57.3	46.2	28.3	15.6	9.3
			42"	8.4	16.8	31.7	46.9	42.7	30	18.3	11.
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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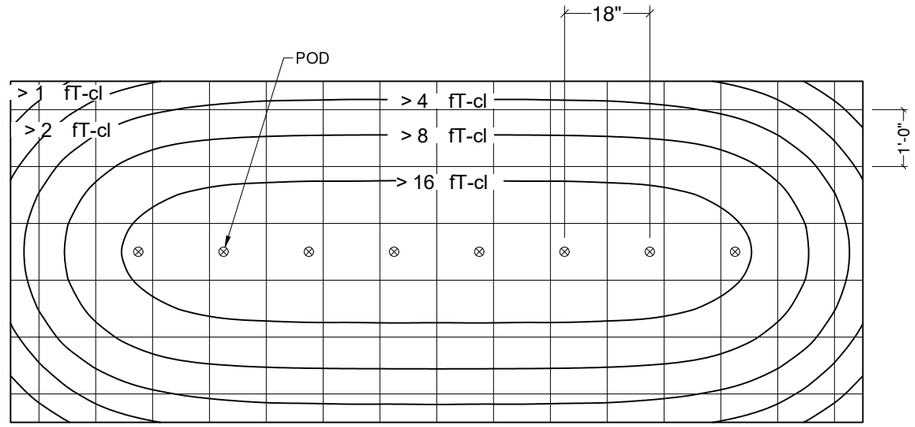
POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 18”)



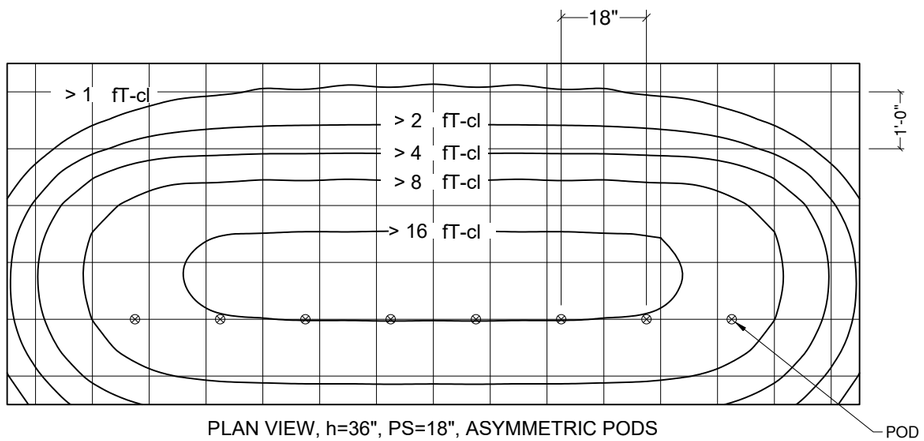
h: Illuminated Rail Height
PS(Pod Spacing) = 18"



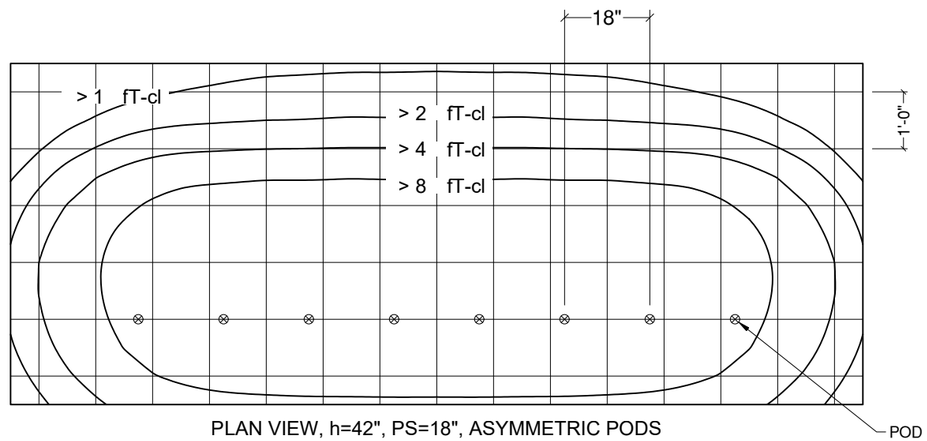
PLAN VIEW, h=36", PS=18", SYMMETRIC PODS
FC: MAX=19.8, MIN=0.2, AVE.=6.1



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

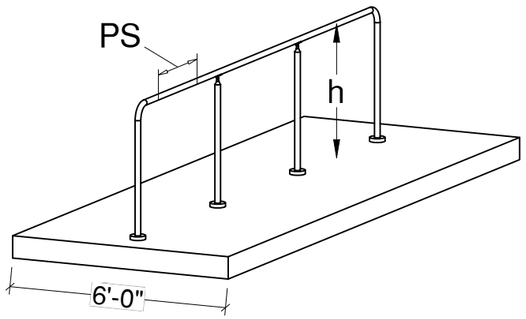


PLAN VIEW, h=42", PS=18", ASYMMETRIC PODS
FC: MAX=13.5, MIN=0.1, AVE.=5.0

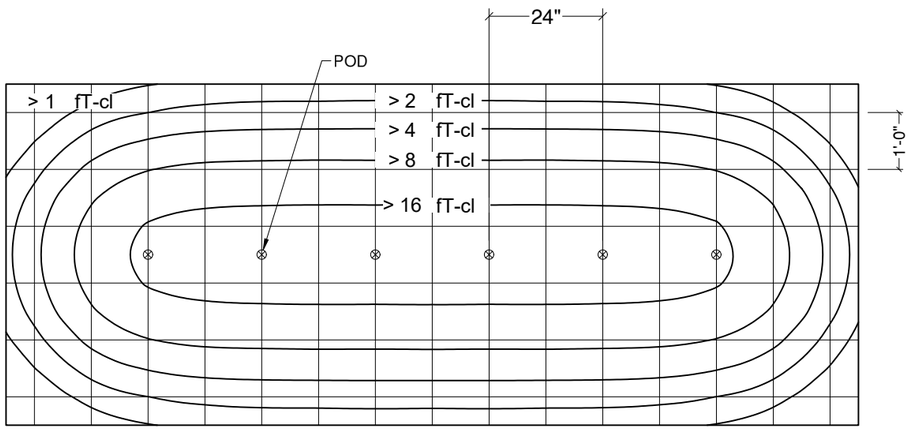
VIVA RAILINGS IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF ANY BUILDING SYSTEMS OR OTHER MATERIALS NOT FURNISHED BY VIVA RAILINGS. VIVA RAILINGS HAS NO WAY OF KNOWING AND SPECIFICALLY DISCLAIMS WHETHER OR NOT THE BUILDING SYSTEMS TO WHICH VIVA RAILINGS' PRODUCTS ARE TO BE ATTACHED ARE STRUCTURALLY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

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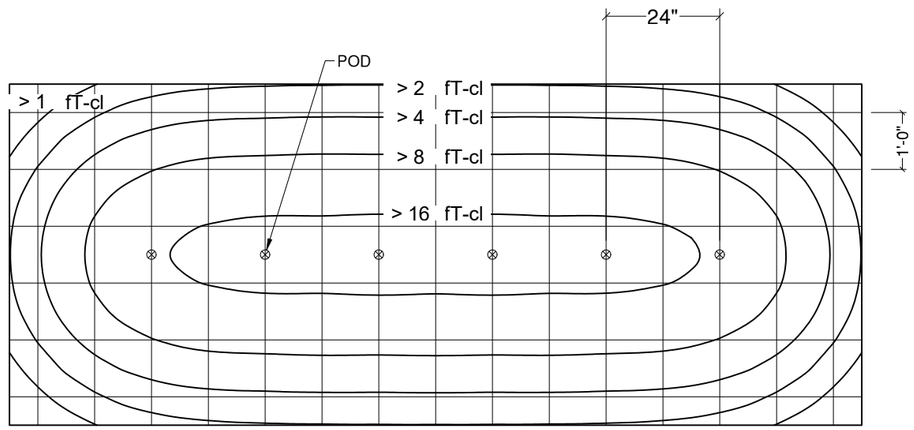
POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 24”)



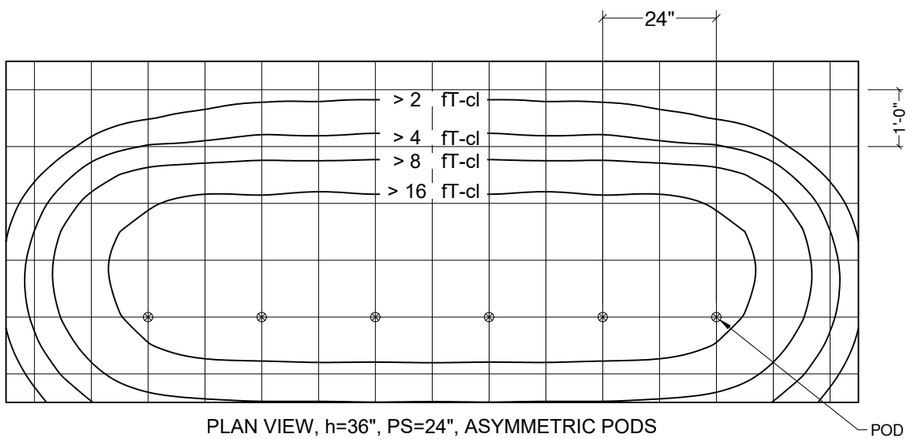
h: Illuminated Rail Height
PS(Pod Spacing) = 24"



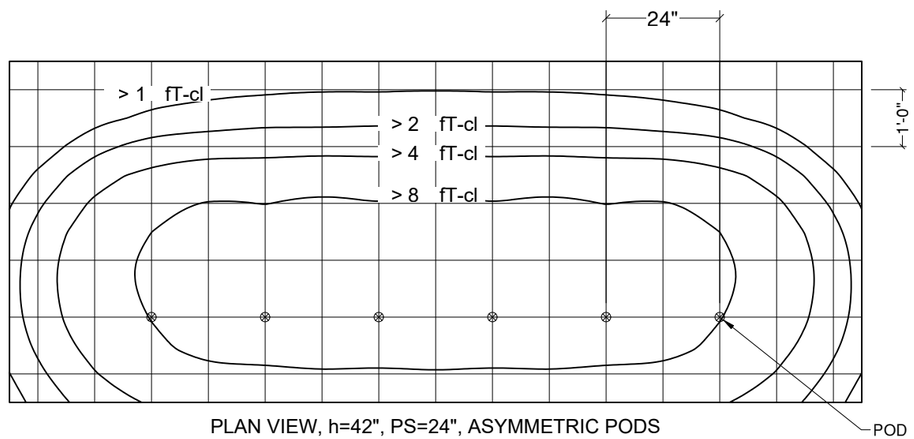
PLAN VIEW, h=36", PS=24", SYMMETRIC PODS
FC: MAX=14.9, MIN=0.1, AVE.=4.6



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



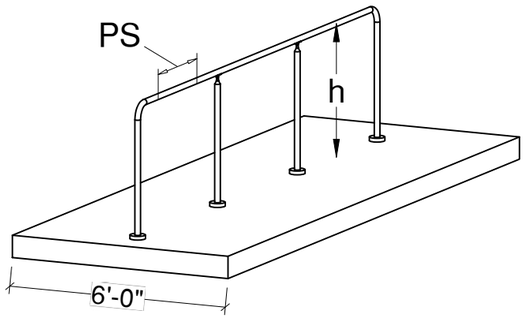
PLAN VIEW, h=36", PS=24", ASYMMETRIC PODS
FC: MAX=11.9, MIN=0.1, AVE.=3.8



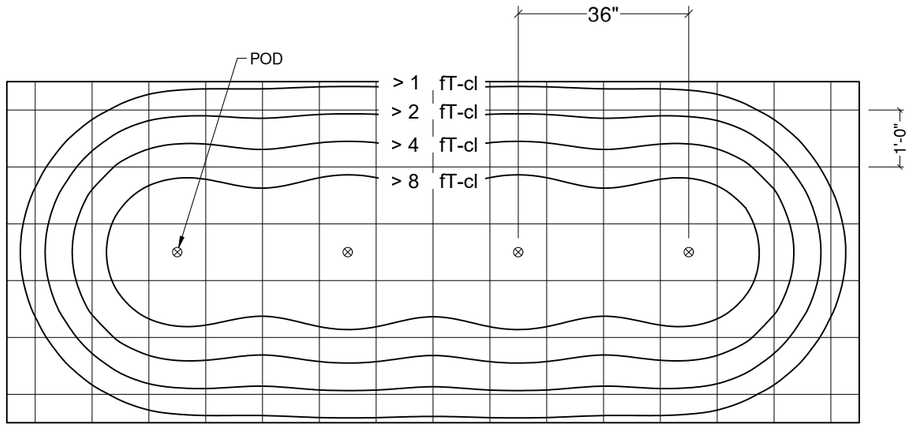
PLAN VIEW, h=42", PS=24", ASYMMETRIC PODS
FC: MAX=10.1, MIN=0.1, AVE.=3.7

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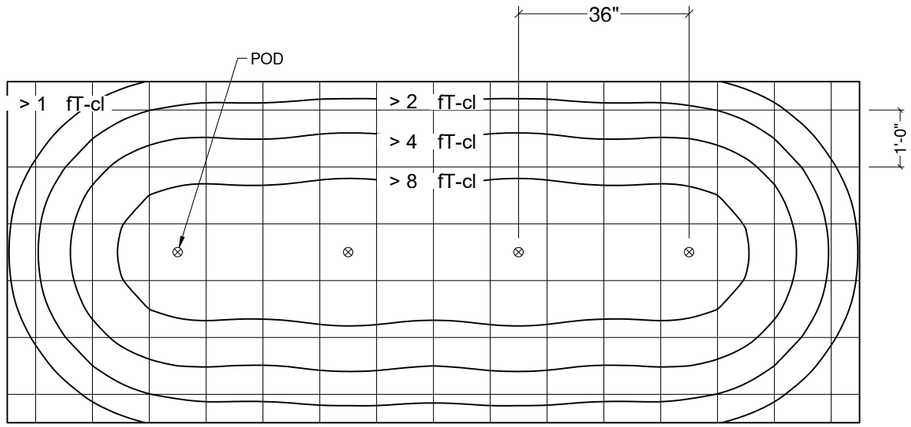
POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 36”)



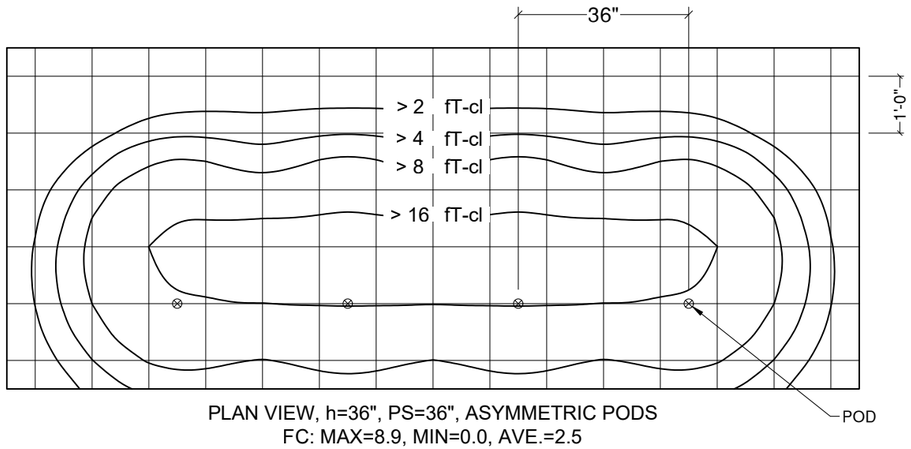
h: Illuminated Rail Height
PS(Pod Spacing) = 36"



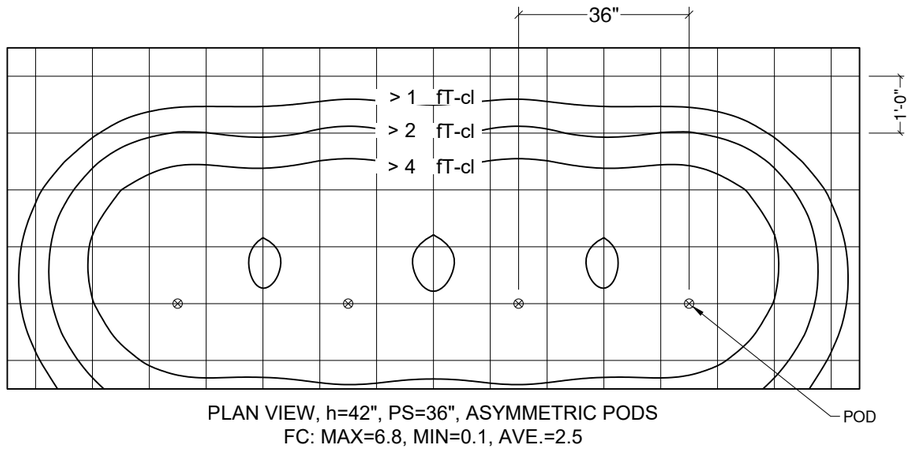
PLAN VIEW, h=36", PS=36", SYMMETRIC PODS
FC: MAX=10.9, MIN=0.1, AVE.=3.0



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



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

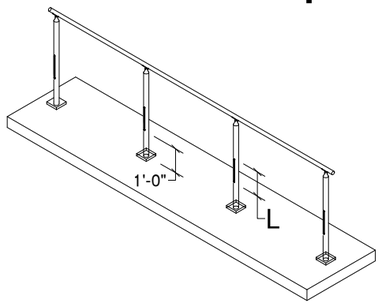


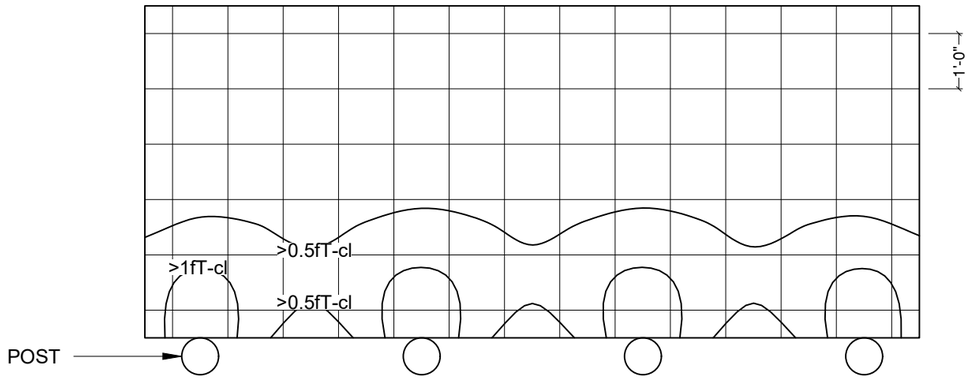
PLAN VIEW, h=42", PS=36", ASYMMETRIC PODS
FC: MAX=6.8, MIN=0.1, AVE.=2.5

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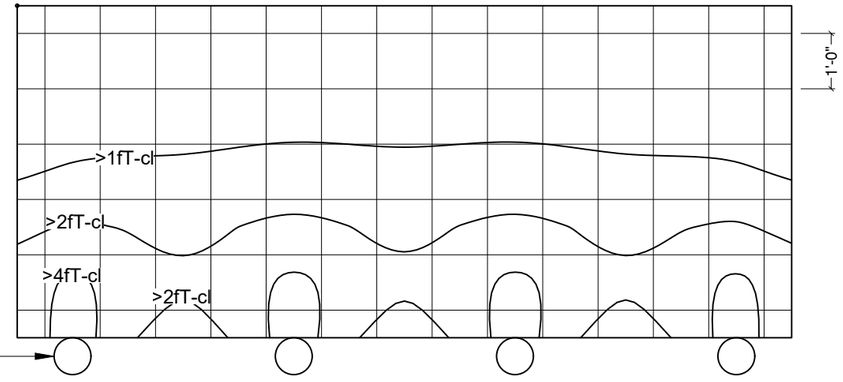
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CAPSULE Dispersion Diagram

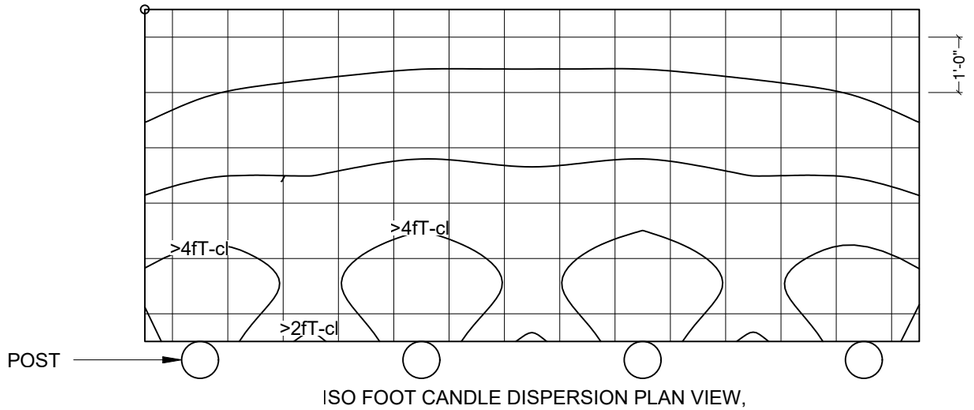




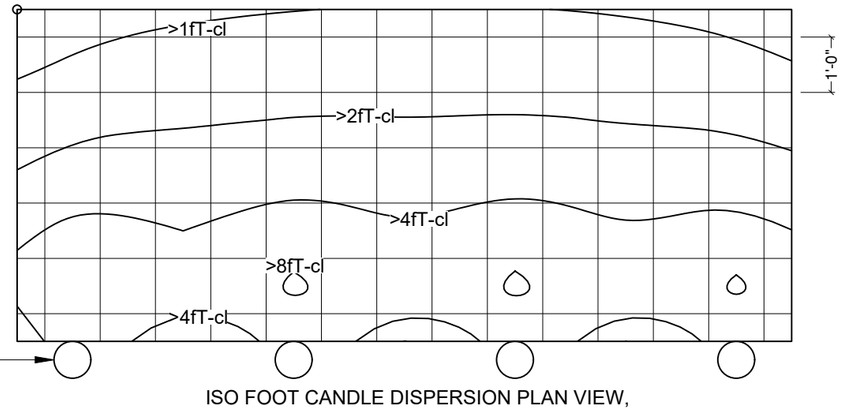
ISO FOOT CANDLE DISPERSION PLAN VIEW,
h (iRAIL HEIGHT)= 1'-0", w/ 85mm CAPSULE LENGTH (L)



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



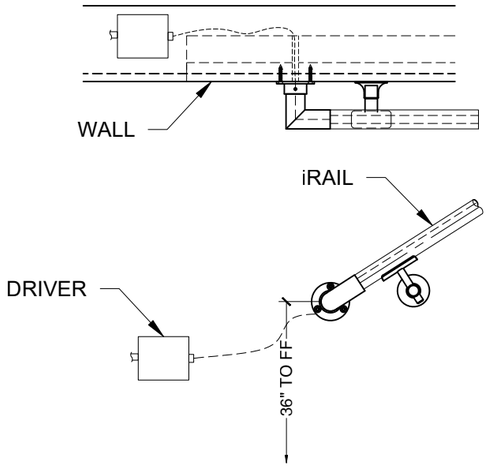
ISO FOOT CANDLE DISPERSION PLAN VIEW,
h (iRAIL HEIGHT)= 1'-0", w/ 285mm CAPSULE LENGTH (L)



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

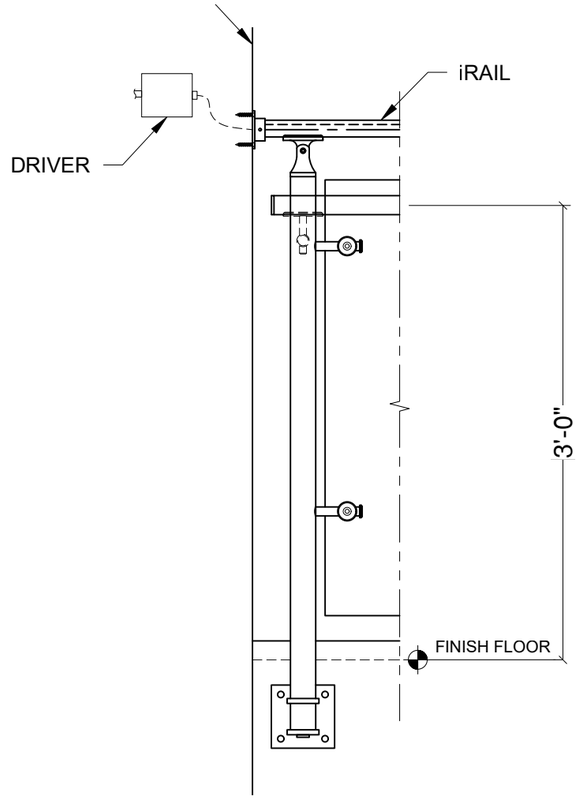
VIVA RAILINGS IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF ANY BUILDING SYSTEMS OR OTHER MATERIALS NOT FURNISHED BY VIVA RAILINGS. VIVA RAILINGS HAS NO WAY OF KNOWING AND SPECIFICALLY DISCLAIMS WHETHER OR NOT THE BUILDING SYSTEMS TO WHICH VIVA RAILINGS' PRODUCTS ARE TO BE ATTACHED ARE STRUCTURALLY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

WIRE FEED OPTION



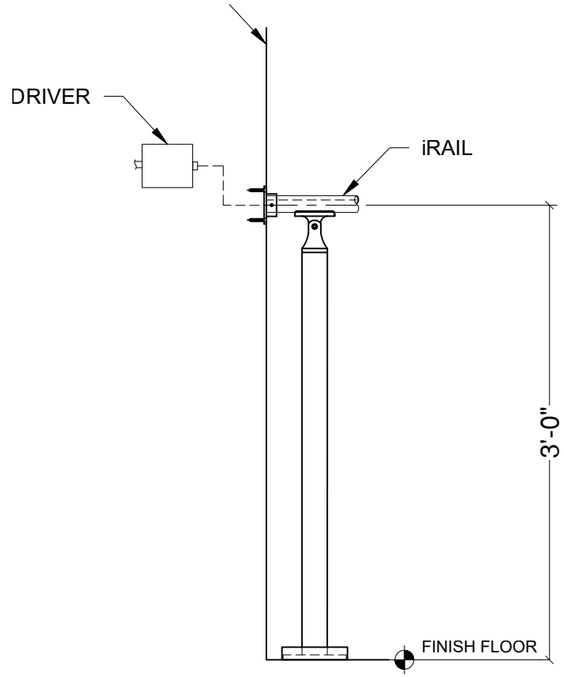
Illuminated WallRail

Detail# IR-W01



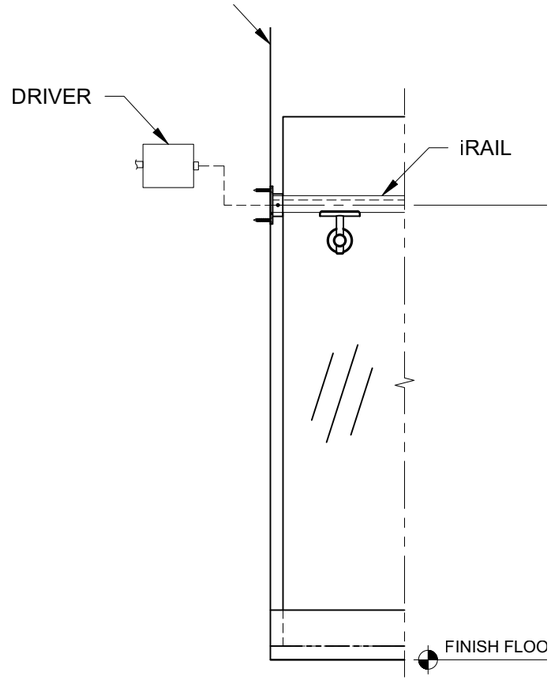
Illuminated Handrail or
Top Rail

Detail# IR-W02



Illuminated FSR

Detail# IR-W03



Illuminated Shoe Handrail

Detail# IR-W04

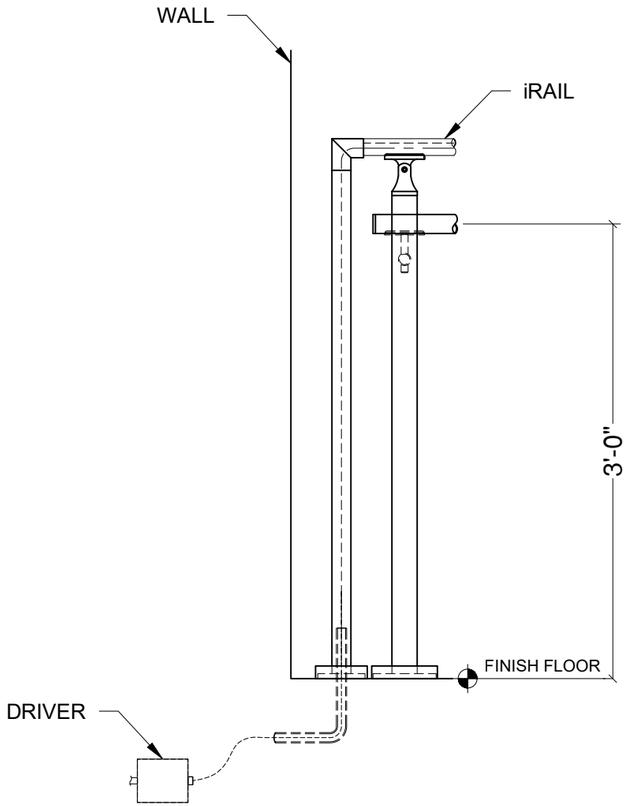
*WALL OR FLOOR WIRE FEED ENTRY REQUIRED AT RAILING TERMINAL POINT. TYP.

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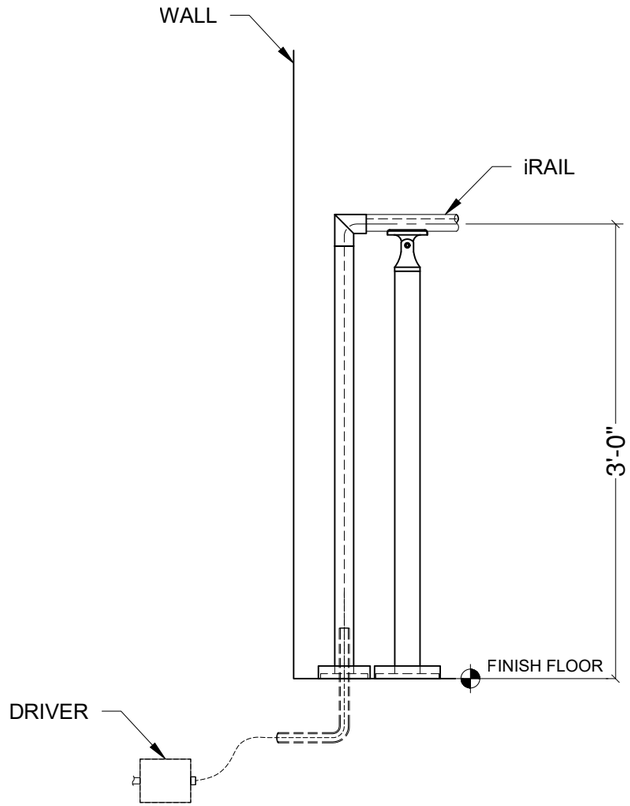
iRAIL LED SYSTEM

WIRE FEED OPTION



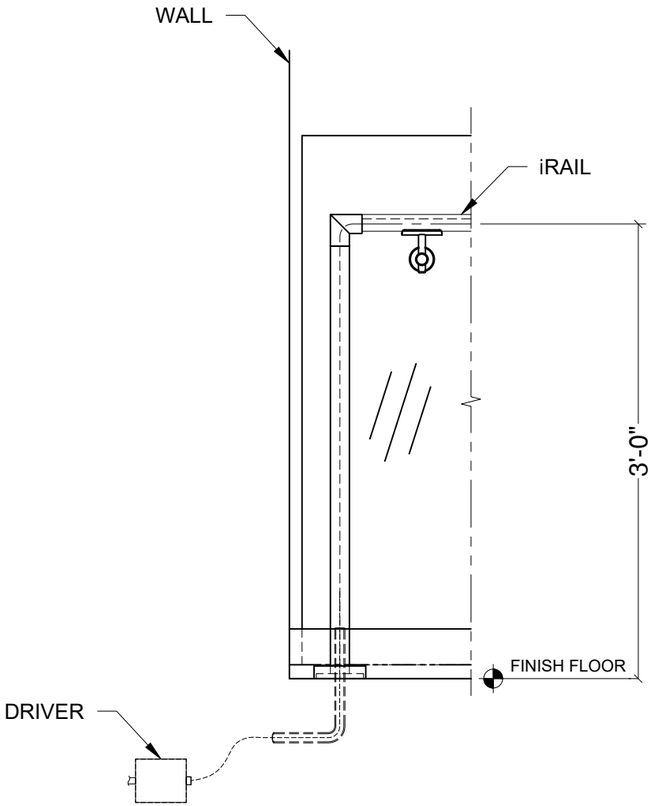
Illuminated Handrail or Top Rail

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:

IR-LIN-1.5-304-30K-M-CL-0°

- Orientation, Symmetric 0°
  Asymmetric 30°
- Lens type, Clear CL
  Frosted FR
- Intensity, Medium M
  High H
- Light color: Warm white 3000k 30K
  Cool white 4000k 40K
- Railing Material: Stainless Steel 304 304
  Stainless Steel 316 316
  Red Oak ROK
  White Oak WOK
  Maple MPL
  Cherry CHR
- Available Applications: Ø1-1/2" E-Tube 1.5
  Ø2" Wood 2W
- iRAIL Linear LIN

IR-POD-1.5-304-30K-0°

- Orientation, Symmetric 0°
  Asymmetric 22°
- Light color: Warm white 3000k 30K
  Cool white 4000k 40K
- Alloy Composition: Stainless Steel 304
  Stainless Steel 316
- Available Applications: Ø1-1/2" Tube 1
  Ø2" Tube
- iRAIL Pod POD

iRAIL CAPSULE ORDER CODE:

IR-CAP-185-C2-304-30K-0°

- Orientation, Symmetric 0°
- Light color: Warm white 3000k 30K
  Cool whit 4000k 40K
- Alloy Composition: Stainless Steel 304
  Stainless Steel 316
- Available Applications: 2"X2" Tube SQ
  Ø2" Tube C2
- Capsule Size: 185 mm 185
  285 mm 285
  385 mm 385
- iRAIL Capsule CAP

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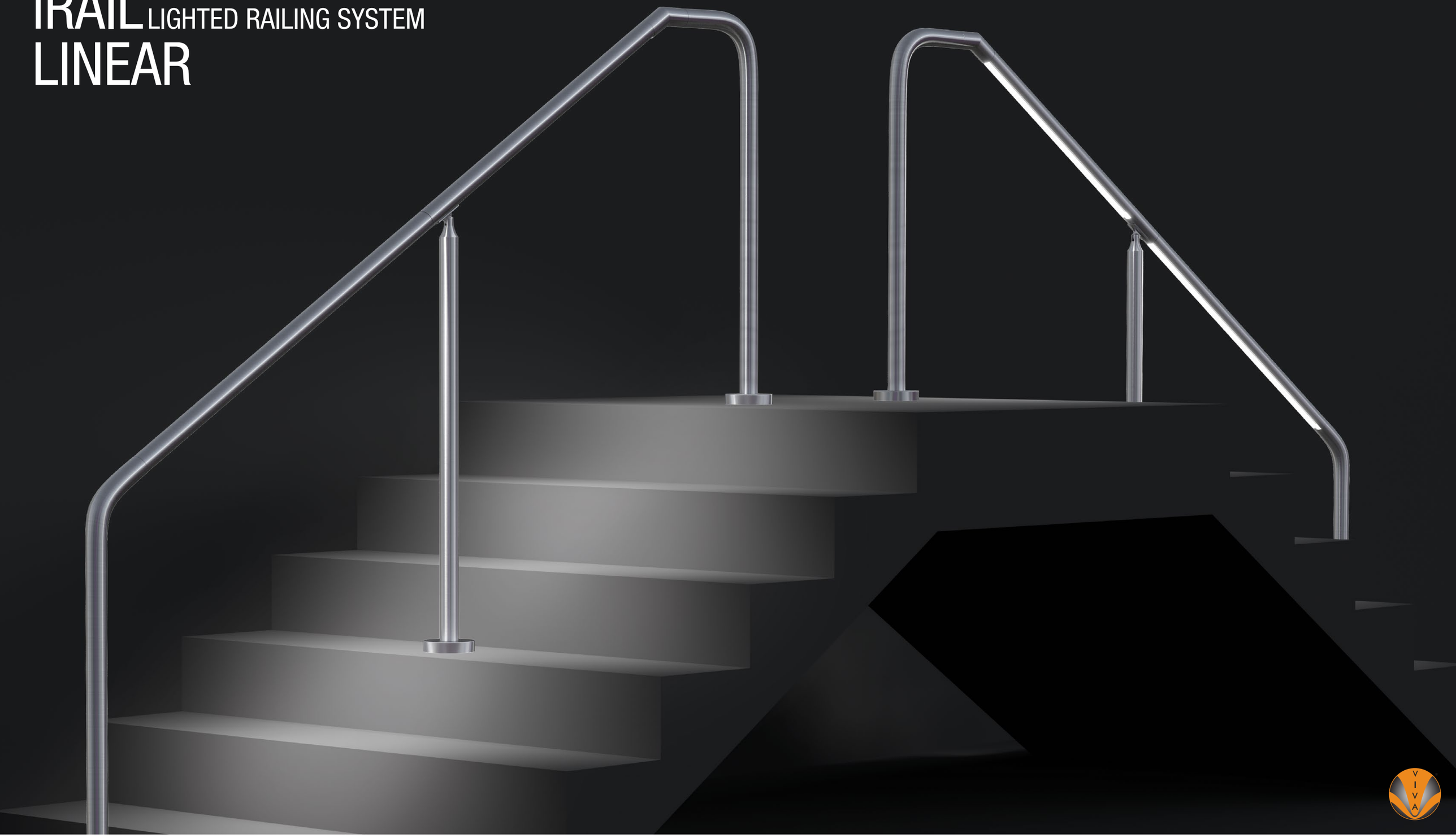
iRAIL LIGHTED RAILING SYSTEM
SMU MOODY HALL

SMU MOODY HALL - DALLAS, TX

General Contractor: The Beck Group

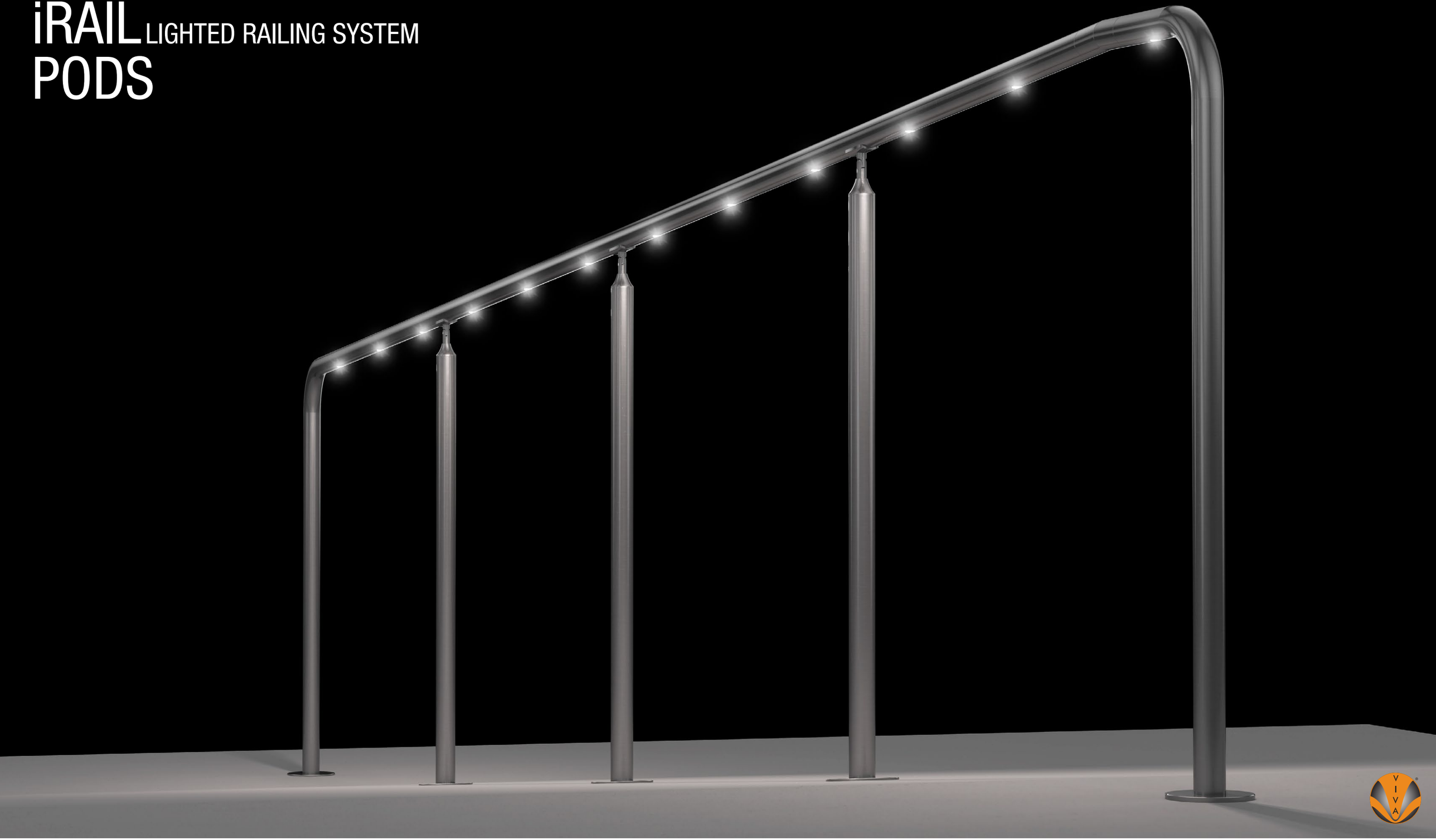
Architect: Smithgroup Inc

iRAIL LIGHTED RAILING SYSTEM
LINEAR



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iRAIL LIGHTED RAILING SYSTEM
PODS



iRAIL LIGHTED RAILING SYSTEM
CHOCTAW CASINO & RESORT



CHOCTAW CASINO & RESORT - DURANT, OK

General Contractor: TEPCO Glass

Architect: JCJ Architecture

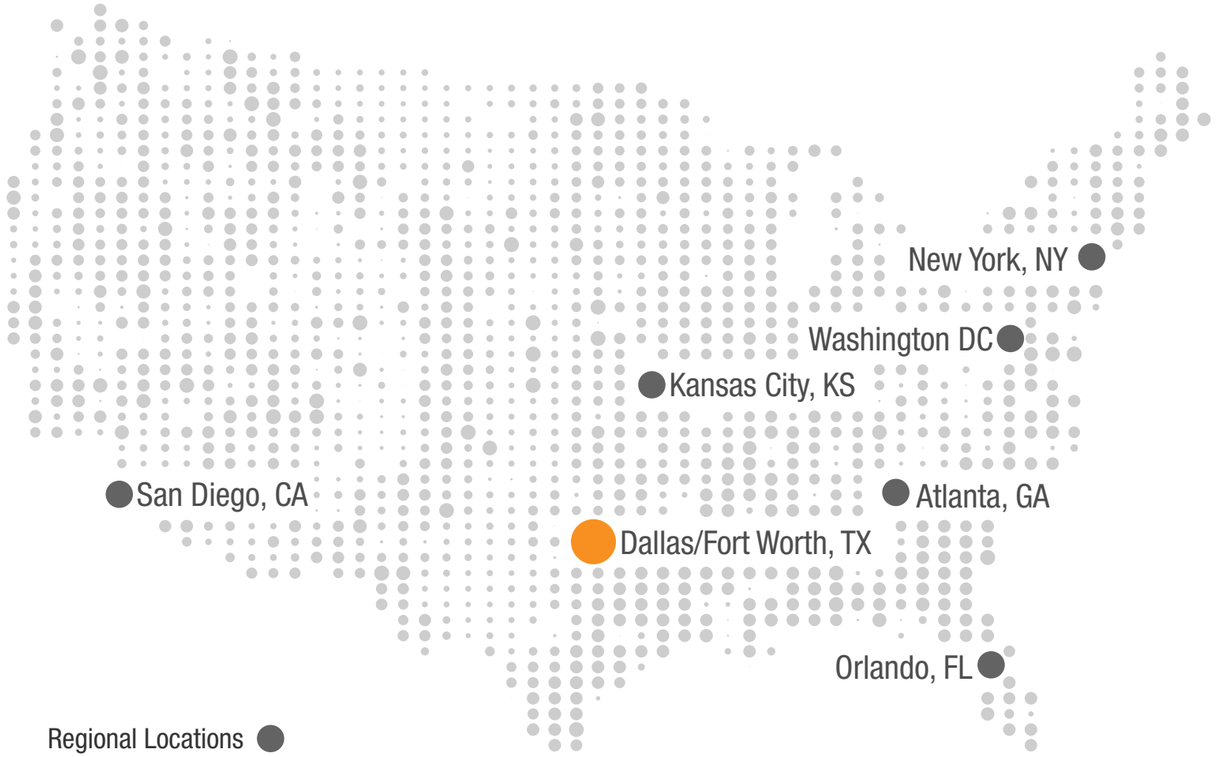
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iRAIL LIGHTED RAILING SYSTEM
ANDRETTI / GRANDSCAPE

ANDRETTI / GRANDSCAPE - THE COLONY, TX

General Contractor: VCC Construction Corp.

Architect: Merriman - MAA Architects



Regional Locations

NORTH AMERICA OPERATIONS

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SHOE™
Structural Glass Railing System

LEED
Material & Resources Credits 4.1 and 4.2

The American Institute of Architects

The California Contractors State License
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WST LED

Architectural Wall Sconce

Catalog Number

Notes

Type

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

Specifications

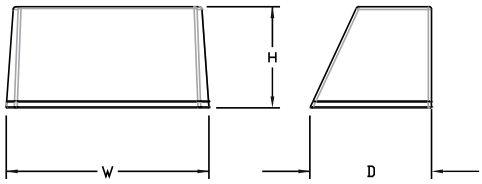
Luminaire

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

Width: 17" *(43.18 cm)*

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

Weight: 20 lbs *(9.1 kg)*



Introduction

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

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD

WST LED

Series	Performance Package	Color temperature	Distribution	Voltage	Mounting
WST LED	P1 1,500 Lumen package 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] 120[2] 208[2] 240[2] 277[2] 347[2] 480[2]	**Shipped included** (blank) Surface mounting bracket PBBW Premium surface-mounted back box[3,4] **Shipped separately** BBW Surface-mounted back box[3]

Options

NLTAIR2 PIR	nLIGHT AIR Wireless enabled motion/ambient sensor for 8'-15' mounting heights[5,6,7]
NLTAIR2 PIRH	nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights[5,6,7]
PE	Photoelectric cell, button type[8]
PER	NEMA twist-lock receptacle only (controls ordered separate)[9]
PER5	Five-wire receptacle only (controls ordered separate)[9]
PER7	Seven-wire receptacle only (controls ordered separate)[9]
PIR	Motion/Ambient Light Sensor, 8-15' mounting height[5,6]
PIR1FC3V	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[5,6]
PIRH	180° motion/ambient light sensor, 15-30' mounting height[5,6]
PIRH1FC3V	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[5,6]
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]

Finish *(required)*

DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DSSXD	Sandstone
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white
DSSTXD	Textured sandstone

See Accessories and Notes on next page.

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Accessories

Ordered and shipped separately.

WSTVCPBBW DDBXD U	Premium Surface - mounted back box
WSBBW 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

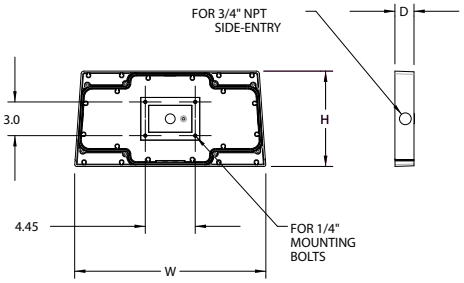
1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
2 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
3 Also available as a separate accessory; see accessories information.
4 Top conduit entry standard.
5 Not available with VG or WG. See PER 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)*

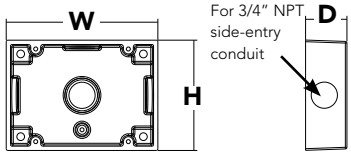


Optional Back Box (BBW)

Height: 4″ *(10.2 cm)*

Width: 5-1/2″ *(14.0 cm)*

Depth: 1-1/2″ *(3.8 cm)*



Emergency Battery Operation

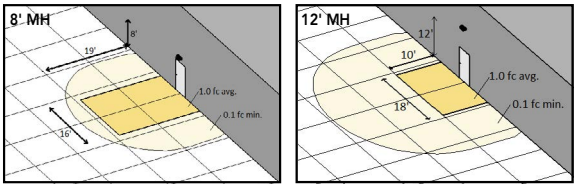
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

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

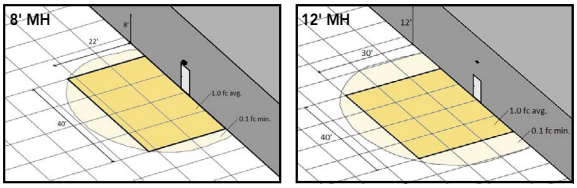
The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and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

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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.

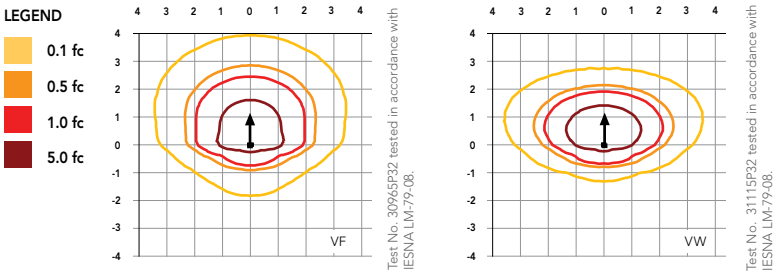
Performance Package	System Watts (MVOLT[1])	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	12W	VF	1,494	0	0	0	125	1,529	0	0	0	127	1,639	0	0	0	137	1,639	0	0	0	137
		VW	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

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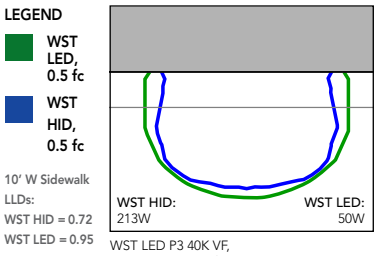
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WST LED homepage.

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.



WST LED P3 40K VF,
WST 175M FT Probe, 12' Mounting Ht

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.

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