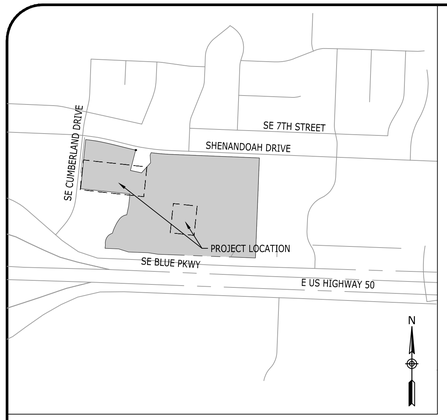
CONSTRUCTION DOCUMENTS

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

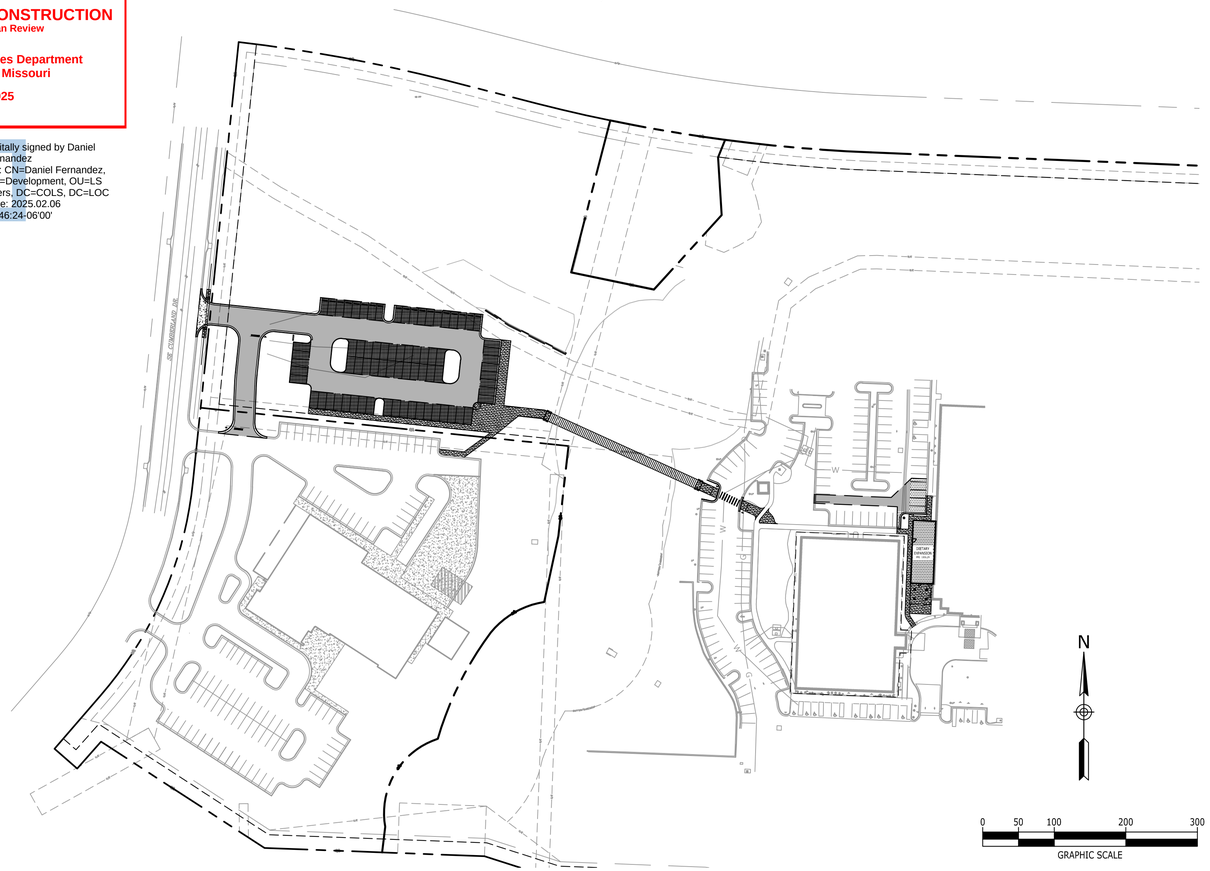
RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

02/06/2025

Daniel Fernandez

Digitally signed by Daniel Fernandez
DN: CN=Daniel Fernandez, OU=Development, OU=LS Users, DC=COLS, DC=LOC
Date: 2025.02.06 10:46:24-06'00'



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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C3.2	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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C6.0	OVERALL GRADING & DRAINAGE PLAN
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E00-00	GENERAL INFORMATION - ELECTRICAL
E01-01	SITE PLAN - PHOTOMETRICS
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-2010040822
PROFESSIONAL ENGINEER
12/17/24

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

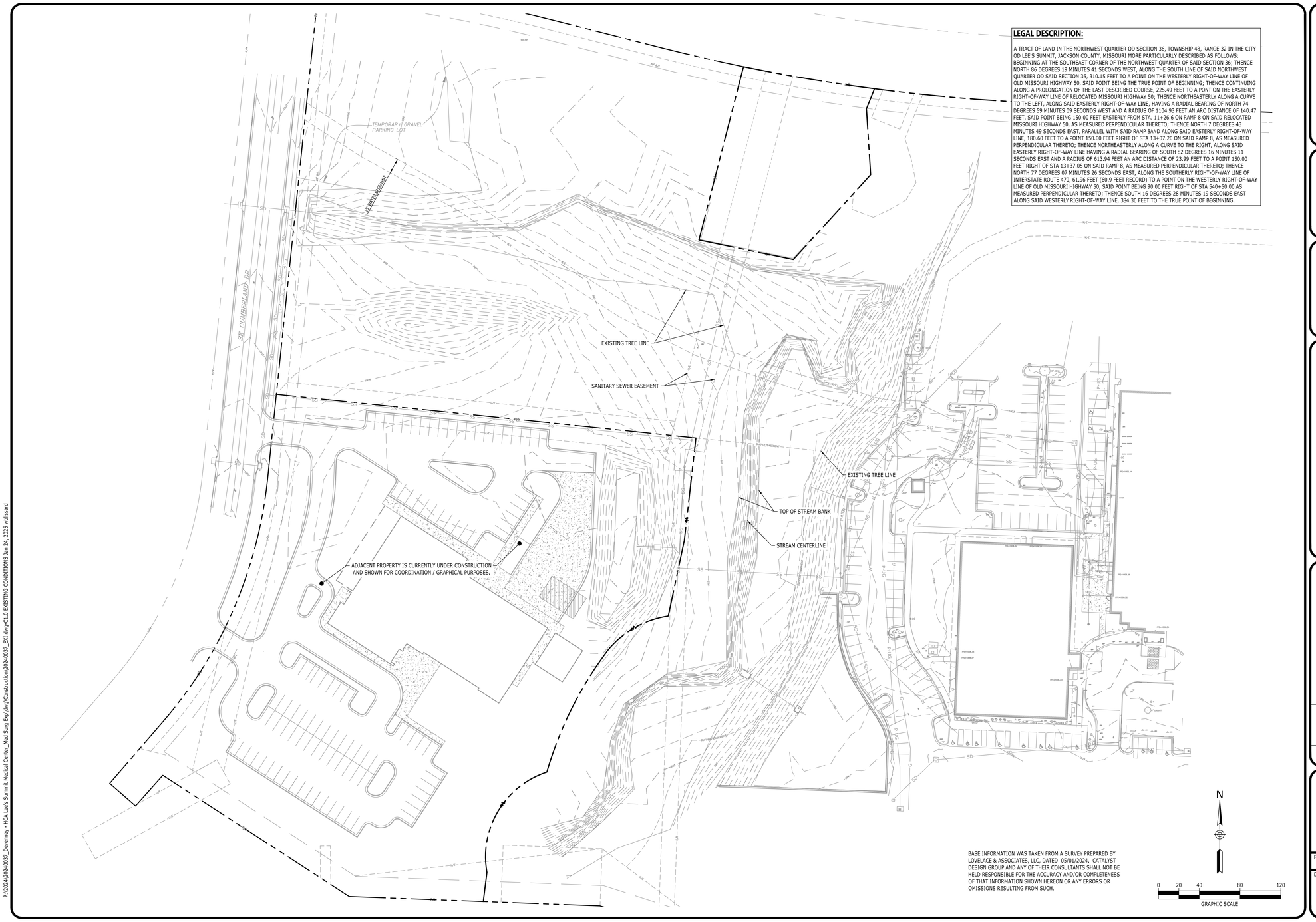
COVER SHEET

C0.0

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

02/06/2025



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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 Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

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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
01/24/2025

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

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

02/06/2025

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 BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
22. UNLESS SPECIFICALLY NOTED OTHERWISE WITHIN THE PLANS, ALL PROPOSED GRADES SHALL TIE INTO EXISTING GRADES AT THE PROJECT PROPERTY BOUNDARY. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF IT APPEARS THERE IS CONFLICTING FIELD CONDITIONS THAT WOULD NOT ALLOW GRADING AS DESIGNED.
23. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS AFTER FINAL GRADING IS ACHIEVED.

STORM SEWER NOTES

1. ALL STORMWATER PIPES, STRUCTURES, AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL AND STATE STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL FOLLOW CONSTRUCTION PLANS AND MANUFACTURER DETAILS, SPECIFICATIONS, AND INSTALLATION INSTRUCTIONS AS INCLUDED WITHIN THE PLANS AND PROVIDED BY THE MANUFACTURER FOR THE INSTALLATION OF PIPES, STRUCTURES, WATER QUALITY UNITS AND FABRICATED DETENTION SYSTEMS.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STORM SEWER PIPE, STRUCTURES, WATER QUALITY STRUCTURES, AND FABRICATED DETENTION STRUCTURES FOR ENGINEER AND OWNER APPROVAL PRIOR TO ORDERING MATERIALS.
3. PIPE SPECIFICATIONS:
   - 3.1. REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III, WALL TYPE 'B' CONFORMING TO ASTM C76 UNLESS OTHERWISE NOTED WITH BELL-AND-SPIGOT AND GASKETED JOINTS WITH ASTM C443 RUBBER GASKETS OR MASTIC SEAL CONFORMING TO ASTM C990. RCP SHALL BE INSTALLED PER THE RECOMMENDATIONS OF ASTM C1479.
     - 3.1.1. CLASS IV RCP PIPE IS REQUIRED FOR FILL HEIGHTS OVER 13' OR WHERE NOTED BY THE ENGINEER.
   - 3.2. HIGH DENSITY POLYETHYLENE (HDPE) PIPE SHALL BE DUAL-WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR. HDPE PIPE SHALL CONFORM TO ASTM D3350 WITH RUBBER GASKET SOIL TIGHT JOINTS CONFORMING TO ASTM F477. THERMOPLASTIC PIPING SHALL BE INSTALLED PER THE RECOMMENDATIONS OF ASTM C2321.
   - 3.3. HIGH-PERFORMANCE POLYPROPYLENE (HP) PIPE SHALL BE DUAL-WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR, CONFORMING TO ASTM F2881 AND AASHTO M330 WITH GASKETED SOIL TIGHT JOINTS CONFORMING TO ASTM F477. THERMOPLASTIC PIPING SHALL BE INSTALLED PER THE RECOMMENDATIONS OF ASTM C2321.
4. ALL PIPES SHALL BE INSTALLED, AT A MINIMUM, WITH SOIL TIGHT JOINTS AND BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND AASHTO SECTION 30.
5. PIPE BEDDING, BACKFILL, AND COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH LOCAL AND STATE DEPARTMENT OF TRANSPORTATION DETAILS AND SPECIFICATIONS.
6. PIPES UNDER EXISTING PAVEMENT AREAS SHALL BE COMPLETELY BACKFILLED WITH CRUSHED STONE OR PER LOCAL AUTHORITY STANDARD REQUIREMENTS. PAVEMENT SECTIONS SHALL MEET OR EXCEED EXISTING CONDITIONS WITH A SMOOTH TRANSITION.
7. STORM STRUCTURE SPECIFICATIONS:
   - 7.1. STORM INLETS AND MANHOLES SHALL BE PRECAST IN COMPLIANCE WITH THE LOCAL/STATE JURISDICTIONAL AUTHORITY'S STANDARD DETAILS AND SPECIFICATIONS, AND MEET/OR EXCEED SPECIFICATIONS OF ASTM C478/C913. STRUCTURES SHALL BE TRAFFIC RATED PER H-20 LOADING REQUIREMENTS.
   - 7.2. REFER TO STRUCTURE TABLE FOR CASTING FRAME AND GRATE TYPES. FRAMES AND GRATES TO BE PROVIDED IN ACCORDANCE WITH THE LOCAL/STATE JURISDICTIONAL AUTHORITY'S STANDARD DETAILS AND SPECIFICATIONS AND INSTALLED PER MANUFACTURES RECOMMENDATIONS.
   - 7.3. PIPE CONNECTIONS TO STRUCTURES:
     - 7.3.1. FLEXIBLE, WATERTIGHT GASKETS SHALL COMPLY WITH ASTM C923
     - 7.3.2. NON-SHRINK GROUT PER ASTM C1107
   - 7.4. FRAMES AND GRATES:
     - 7.4.1. MATERIAL: GRAY IRON CLASS 35 PER ASTM A48 UNLESS OTHERWISE INDICATED.
8. REFER TO PIPE AND STRUCTURE TABLE FOR CASTING TYPES. INSTALL REDUCERS AS NECESSARY PER MANUFACTURER'S SPECIFICATIONS TO ACCOMMODATE LARGER PIPE DIAMETERS OR CASTING SIZES.
9. TOP OF GRATE ELEVATIONS FOR DRAINAGE STRUCTURES SHALL BE PROVIDED PER THE DETAILS AND STRUCTURE TABLE.
10. CONTRACTOR SHALL PLACE STRUCTURES BASED ON THE ACTUAL DIMENSIONS OF ORDERED STRUCTURE/GRATE TO ALIGN WITH PROPOSED OR EXISTING CURB LINE. STRUCTURES SHOULD NOT BE INSTALLED BASED SOLELY ON STRUCTURE CENTERLINES.
11. COORDINATE THE LOCATION OF SITE DRAINAGE SYSTEMS WITH THE BUILDING ARCHITECTURE AND PLUMBING PLANS FOR COLLECTION OF ROOF DRAINS AND DOWNSPOUTS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
12. ADJUST THE CASTINGS OF ALL EXISTING AND NEW STRUCTURES TO MATCH PROPOSED FINISH GRADE ENSURING POSITIVE DRAINAGE IS STILL MAINTAINED. SLOPE THE TOPS OF CASTINGS TO MATCH SLOPES OF PROPOSED PAVEMENTS AND SIDEWALKS.

SITE UTILITY NOTES

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 SHALL COORDINATE WITH THE OWNERS OF EACH UTILITY AND VERIFY THE SCOPE OF INSTALLATIONS OR RELOCATIONS THAT WILL BE REQUIRED AND IMPACT EACH COULD HAVE ON THE SCHEDULE OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEQUENCING OF INSTALLATION OF THE UTILITIES TO AVOID CONFLICTING HORIZONTAL AND VERTICAL LOCATIONS.
3. ALL PUBLIC WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE TO THE GOVERNING AUTHORITY'S REQUIREMENTS AND SPECIFICATIONS. IF THE GOVERNING AUTHORITY DOES NOT HAVE MATERIAL RECOMMENDATIONS FOR PRIVATE UTILITIES, THEN THE CONTRACTOR SHALL PROVIDE PRIVATE MATERIALS IN ACCORDANCE WITH PUBLIC STANDARDS. OTHERWISE, THE FOLLOWING MINIMUM STANDARDS SHALL BE MET:
   - 3.1. PRIVATE GRAVITY SANITARY SEWER APPLICATIONS:
     - 3.1.1. POLYVINYL CHLORIDE PIPE (PVC) 4" AND GREATER SHALL BE SDR 35, PER ASTM D3034 OR ASTM F679
       - 3.1.1.1. JOINTS: ELASTOMERIC GASKETED, BELL AND SPIGOT, PUSH-ON TYPE PROVIDING A WATER TIGHT SEAL PER ASTM D3212.
     - 3.1.2. DUCTILE IRON PIPE (DIP) SHALL BE PRESSURE CLASS 350 COMPLYING WITH LATEST VERSION OF AWWA C150/C151
       - 3.1.2.1. JOINTS AND FITTINGS: MECHANICAL, PUSH-ON JOINTS, OR FLANGED JOINTS CONFORMING TO AWWA STANDARD C110/C111/C153.
       - 3.1.2.2. LINER AND COATING: INTERIOR LINER 40 MIL DRY FILM, PERMA SHIELD 431 PL OR APPROVED EQUAL AND ASPHALTIC EXTERIOR COATINGS CONFORMING TO ANSI AWWA C151 FOR ALL PIPES, JOINTS, AND FITTINGS.
   - 3.2. PRIVATE POTABLE WATER APPLICATIONS:
     - 3.2.1. POLYVINYL CHLORIDE PIPE (PVC) LESS THAN 4" SHALL BE SCHEDULE 40 PVC PIPE PER ASTM D1785
       - 3.2.1.1. JOINTS AND FITTINGS: SOLVENT CEMENTED JOINTS PER ASTM D2672. PVC FITTINGS PER ASTM D2466
     - 3.2.2. POLYVINYL CHLORIDE PIPE (PVC) 4" AND GREATER SHALL BE AWWA C900, DR-18
       - 3.2.2.1. JOINTS AND FITTINGS: RESTRAINED GASKETED JOINTS PER ASTM F477 AND ASTM D3139. DIP FITTINGS WITH RESTRAINED JOINTS CONFORMING TO AWWA STANDARD C110/C111/C153 ARE TO BE USED.
       - 3.2.2.2. LINING & COATING: INTERIOR CEMENT MORTAR LINING CONFORMING TO AWWA C104 REQUIREMENTS AND ASPHALTIC EXTERIOR COATINGS CONFORMING TO AWWA C151 FOR ALL PIPES, JOINTS, AND FITTINGS.
     - 3.2.3. DUCTILE IRON PIPE (DIP) 16" AND BELOW SHALL BE PRESSURE CLASS 350 COMPLYING WITH LATEST VERSION OF AWWA C150/C151.
       - 3.2.3.1. JOINTS AND FITTINGS: MECHANICAL OR PUSH-ON JOINTS OR FLANGED JOINTS CONFORMING TO AWWA STANDARD C110/C111/C115/C153.
       - 3.2.3.2. LINING & COATING: INTERIOR CEMENT MORTAR LINING CONFORMING TO AWWA C104 AND ASPHALTIC EXTERIOR COATINGS CONFORMING TO AWWA C151 FOR ALL PIPES, JOINTS, AND FITTINGS.
     - 3.2.4. COPPER PIPE (CU) SHALL BE TYPE 'K' ANNEALED PER ASTM B88.
       - 3.2.4.1. JOINTS AND FITTINGS PER AWWA C800.
4. MAINTAIN 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND WATER LINES WHERE POSSIBLE. IN AREAS WHERE THESE CRITERIA CANNOT BE MET, PROVIDE 18" OF VERTICAL SEPARATION, UNLESS OTHERWISE NOTED WITHIN THE PLANS.
5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF THE PROPOSED SEWER CONNECTION POINT PRIOR TO INSTALLATION OF NEW LINES. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.
6. CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE UTILIZING THE CORING AND RESILIENT SEAL METHOD IF NOT OTHERWISE NOTED PER LOCAL REGULATIONS.
7. THE CONTRACTOR SHALL VERIFY ANY PIPE LENGTHS, MATERIALS AND SIZES PROVIDED ON THE PLANS WITH FIELD CONDITIONS AND COORDINATE THE EXACT LOCATION OF THE BUILDING SERVICES WITH THE PLUMBING PLANS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
8. MINIMUM SLOPE OF 6" SANITARY SEWER SERVICES SHALL BE 1%. INSTALL PER INVERTS PROVIDED ON THE PLAN AND WITH A MINIMUM 48" OF COVER WITHIN ROADWAYS AND 30" OF COVER WITHIN LANDSCAPE AREAS.
9. MARK THE LOCATION OF PVC LINES WITH A #8 WIRE.
10. PROVIDE A MINIMUM OF 36" OF COVER OVER ALL WATER AND FIRE LINES.
11. ALL FIRE LINES SHALL BE INSTALLED FROM THE POINT OF CONNECTION TO THE BUILDING BY A SPRINKLER CONTRACTOR LICENSED IN THE STATE OF MO.
12. PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL BENDS AND BLOCKING/RODDING ON WATER/FIRE LINES TO ACHIEVE THE PROPOSED ALIGNMENT SHOWN ON THE PLANS.
13. BEFORE CONNECTIONS ARE MADE TO EXISTING LINES, INSTALLED LINES SHALL BE FLUSHED, TESTED, AND APPROVED BY THE GOVERNING AUTHORITY IN ACCORDANCE WITH THEIR REQUIREMENTS.
14. REPAIR DAMAGE TO EXISTING FEATURES TO PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH GOVERNING AUTHORITY'S REQUIREMENTS IN A TIMELY MANNER. TRENCHES WITHIN EXISTING PAVEMENTS SHALL BE EVENLY SAW CUT FOR REMOVAL AND COMPLETELY BACKFILLED WITH CRUSHED STONE. REPAIR ROADWAYS PER GOVERNING AGENCY'S STANDARDS.
15. THE CONTRACTOR SHALL TAKE CARE TO PROPERLY COMPACT FILL WITHIN UTILITY TRENCHES AND AROUND OTHER PROJECT FEATURES TO AVOID SETTLEMENT. SETTLEMENT OCCURRING WITHIN 12 MONTHS OF COMPLETION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
16. EXISTING AND NEW CASTINGS SHALL BE ADJUSTED TO MATCH FINISH GRADE. CASTINGS SHALL BE SLOPED TO MATCH SLOPES OF PROPOSED PAVEMENTS AND SIDEWALKS.
17. THE CONTRACTOR SHALL COORDINATE GAS SERVICE, ELECTRICAL SERVICE, AND COMMUNICATION SERVICES WITH THE APPROPRIATE PROVIDER AND PAY NECESSARY FEES FOR INSTALLATION.
18. 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.

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

DRAWING TITLE
GENERAL NOTES

PROJECT NUMBER
20240037

DRAWING NUMBER
C2.0

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JACK J. PARKER
NUMBER
PE-2017040852
01/24/2025

INPATIENT BED EXPANSION

HCA - LEE'S SUMMIT
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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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GENERAL NOTES

C2.0

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RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

02/06/2025

EROSION CONTROL KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
EC1	TEMPORARY CONSTRUCTION ENTRANCE	1 / C3.2
EC2	SILT FENCE	3 / C3.2
EC3	INLET PROTECTION	4 / C3.2
EC4	TREE PROTECTION	2 / C3.2
EC7	RIPRAP OUTLET PROTECTION	2 / C3.3
EC8	EROSION EEL	1 / C3.3
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
   COMPLETE CONSTRUCTION - MAY 2026

2. CONSTRUCTION SEQUENCE:
   A. ATTEND WATER QUALITY DIVISION PRE-CONSTRUCTION MEETING.
   B. INSTALL CONSTRUCTION ENTRANCE AND SILT FENCE
   C. CONTACT WATER QUALITY DIVISION - EROSION CONTROL INSPECTOR FOR INSPECTION OF EROSION CONTROL DEVICES TO OBTAIN GRADING PERMIT.
   D. CLEAR AND GRUB THE REMAINING SITE.
   E. CONSTRUCT REMAINING SITE ACCORDING TO APPROVED PLANS, INCLUDING ALL ADDITIONAL EROSION CONTROL DEVICES.
   F. UPON PERMANENT SITE STABILIZATION SEED AND STRAW.
   G. REMOVE ALL OTHER EROSION TEMPORARY CONTROL DEVICES PRIOR TO AS-BUILT APPROVALS.

3. TOTAL PROJECT AREA = 1,066,349 SF (24.48± AC.)
   DISTURBED AREA = 93,929 S.F. (2.15± AC.)

EROSION CONTROL NOTES:

1. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATION BEGINS AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REPLACED AT THE END OF THE WORKDAY.
2. THE FOLLOWING RECORDS SHALL BE MAINTAINED ON OR NEAR SITE: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; THE DATES WHEN STABILIZATION MEASURES ARE INITIATED; INSPECTION RECORDS AND RAINFALL RECORDS.
3. THE CONTRACTOR SHALL MAINTAIN A RAIN GAUGE AND DAILY RAINFALL RECORDS AT THE SITE OR USE A REFERENCE SITE FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION.
4. PRE-CONSTRUCTION VEGETATIVE 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.
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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.

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GRAPHIC SCALE

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DRAWING TITLE
INITIAL EROSION CONTROL PLAN

PROJECT NUMBER
20240037

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

INPATIENT BED EXPANSION

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INITIAL EROSION CONTROL PLAN

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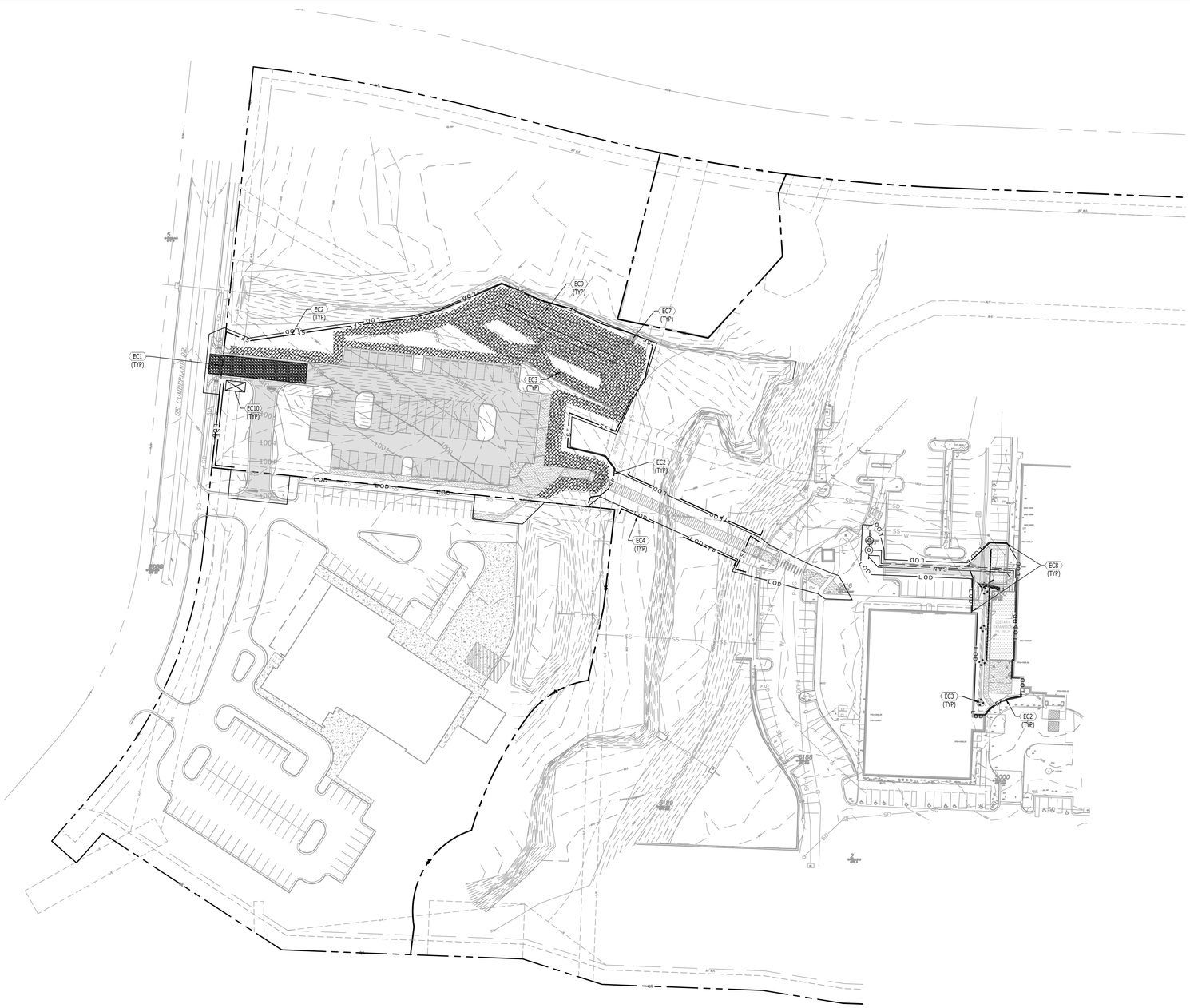

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DRAWING TITLE
FINAL EROSION CONTROL PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C3.1

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

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CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
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AGENCY APPROVALS:
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FINAL EROSION CONTROL PLAN

C3.1

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:

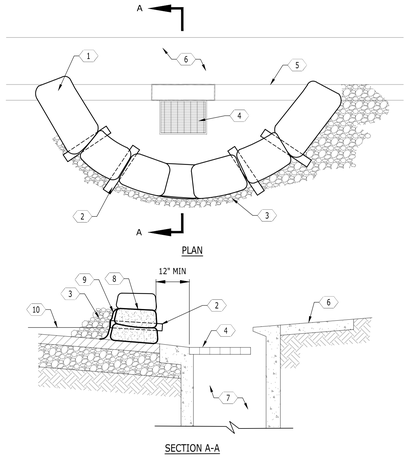
   "I CERTIFY UNDER PENALTY OF LAW THAT THIS REPORT AND ALL ATTACHMENTS ARE, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."
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:

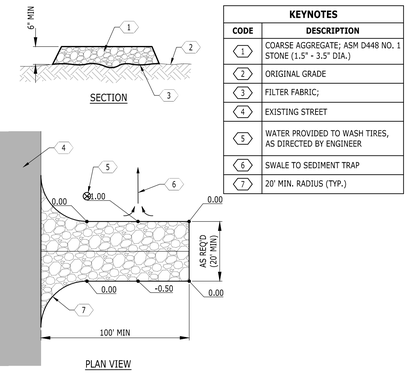
CONTRACTOR SHALL INSTALL A 4'X4' WEATHER PROOF SIGN (6' HEIGHT) AT THE MAIN CONSTRUCTION ENTRANCE. THE SIGN SHALL HAVE THE FOLLOWING INFORMATION:

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.

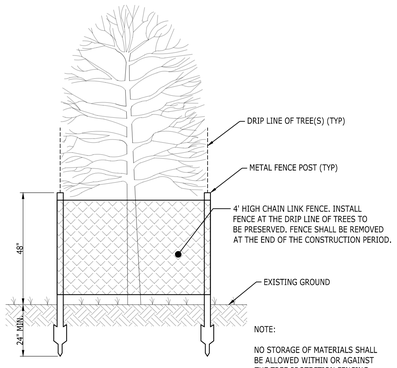


4 **SAND BAG CURB INLET PROTECTION**

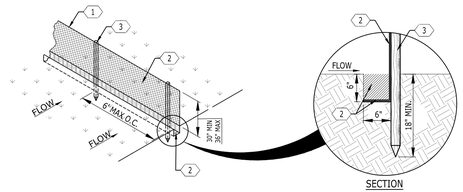


KEYNOTES	
CODE	DESCRIPTION
1	COARSE AGGREGATE; ASM D448 NO. 1 STONE (1.5" - 3.5" DIA.)
2	ORIGINAL GRADE
3	FILTER FABRIC;
4	EXISTING STREET
5	WATER PROVIDED TO WASH TIRES, AS DIRECTED BY ENGINEER
6	SWALE TO SEDIMENT TRAP
7	20' MIN. RADIUS (TYP.)

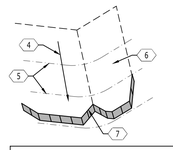
1 **TEMPORARY CONSTRUCTION ENTRANCE**
NOT TO SCALE



2 **TREE PROTECTION**
NOT TO SCALE



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 Ltd., Architects

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

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

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

DRAWING TITLE
SEDIMENT AND EROSION CONTROL DETAILS

PROJECT NUMBER
20240037

DRAWING NUMBER
C3.2

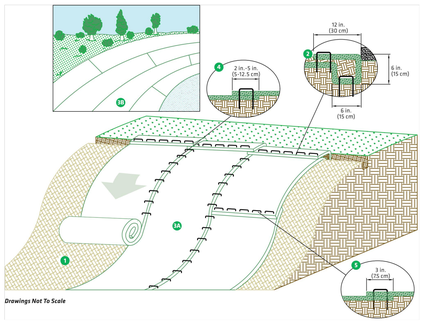
DATE:	2024/12/05
SCALE:	
DRAWN:	AP
REVIEWED:	WB
JOB NUMBER:	6406.24

SEDIMENT AND EROSION CONTROL DETAILS

C3.2

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

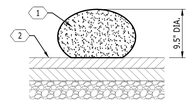
SLOPE INSTALLATION STEPS

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



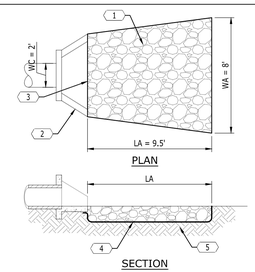
SECTION

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'

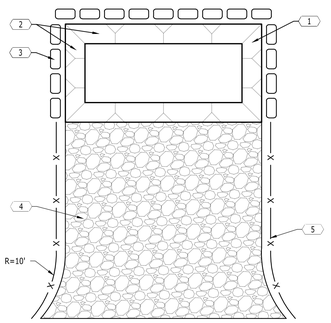
PLAN

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

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CONSTRUCTION DOCUMENTS
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JACKSON COUNTY

INPATIENT BED
EXPANSION

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AUTHORITY HAVING JURISDICTION:
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
SEDIMENT AND EROSION CONTROL DETAILS

PROJECT NUMBER
20240037

DRAWING NUMBER
C3.3

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

SEDIMENT AND EROSION CONTROL DETAILS

C3.3

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

02/06/2025

DEMOLITION KEYNOTES

CODE	DESCRIPTION
D1	REMOVE EXISTING ASPHALT PAVEMENT
D3	REMOVE EXISTING CONCRETE SIDEWALK
D4	REMOVE EXISTING CONCRETE CURB
D5	EVENLY SAWCUT
D7	REMOVE EXISTING DRAINAGE STRUCTURE
D8	REMOVE EXISTING STORM LINE
D9	REMOVE EXISTING WATERLINE & APPURTENANCES
D10	REMOVE EXISTING SANITARY SEWER LINE
D11	REMOVE EXISTING UTILITY LINE & APPURTENANCES
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

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

INPATIENT BED EXPANSION

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LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
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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

OVERALL
DEMOLITION PLAN

C4.0

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Lee's Summit, Missouri

02/06/2025

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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

Catalyst DESIGN GROUP
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CONSTRUCTION DOCUMENTS
HCA LEE'S SUMMIT MEDICAL CENTER
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JACKSON COUNTY

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

DRAWING TITLE
DETAILED DEMOLITION PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C4.1

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

FACILITY NUMBER:
0972400009

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AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

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

DETAILED DEMOLITION PLAN

C4.1

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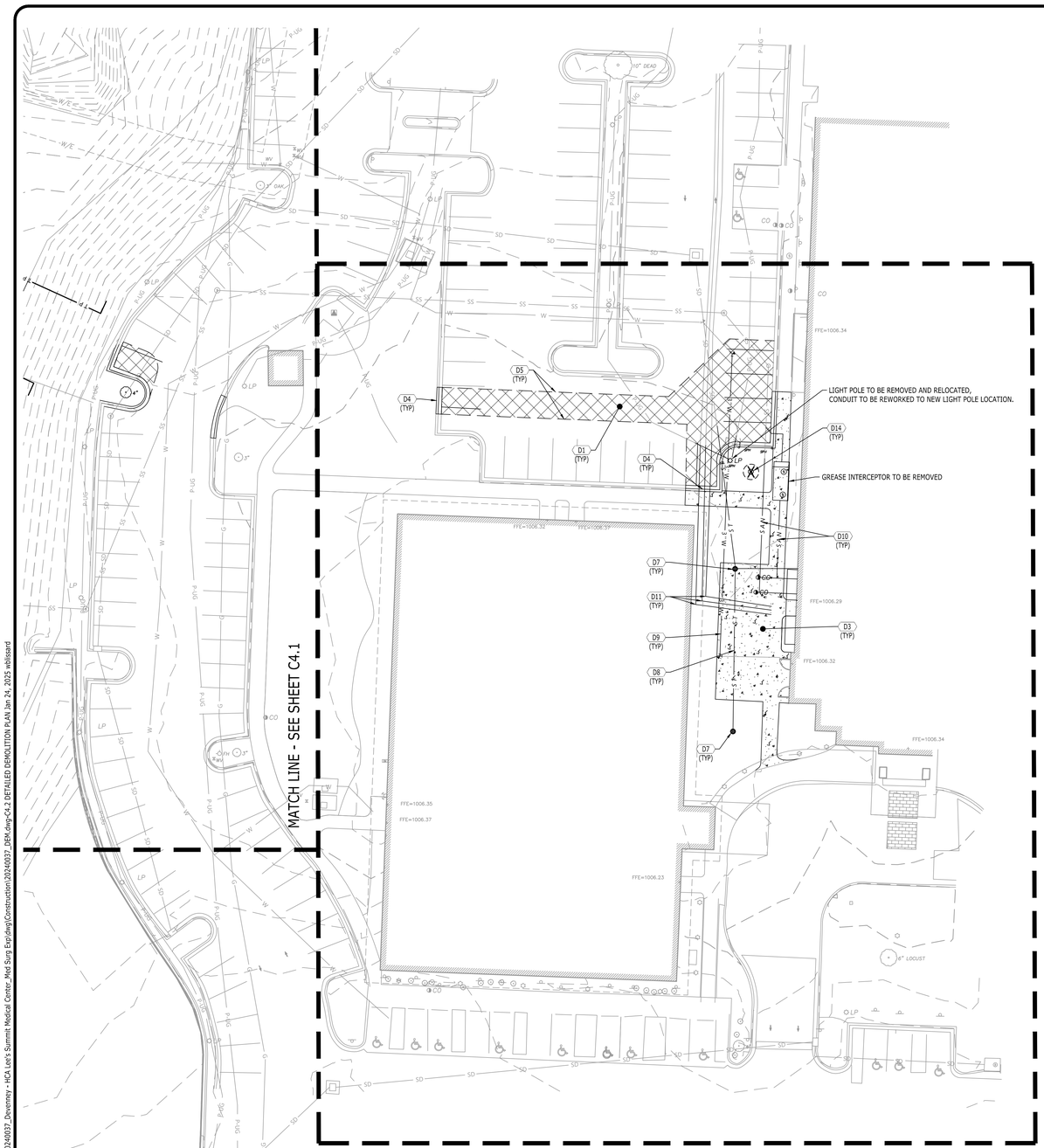
Development Services Department
Lee's Summit, Missouri

02/06/2025



DEMOLITION KEYNOTES

CODE	DESCRIPTION
D1	REMOVE EXISTING ASPHALT PAVEMENT
D3	REMOVE EXISTING CONCRETE SIDEWALK
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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

N

0 10 20 40 60
GRAPHIC SCALE

Catalyst DESIGN GROUP
1524 WILLIAMS DRIVE, SUITE 201, MURFREESBORO, TN 37129
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CONSTRUCTION DOCUMENTS
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MEDICAL CENTER
2000 SE SHENANDOAH DRIVE
LEE'S SUMMIT, MO, 64063
JACKSON COUNTY

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

DRAWING TITLE
DETAILED
DEMOLITION PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C4.2

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STATE OF MISSOURI
01/24/2025

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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
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REVIEWED:	WB
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DETAILED
DEMOLITION PLAN

C4.2

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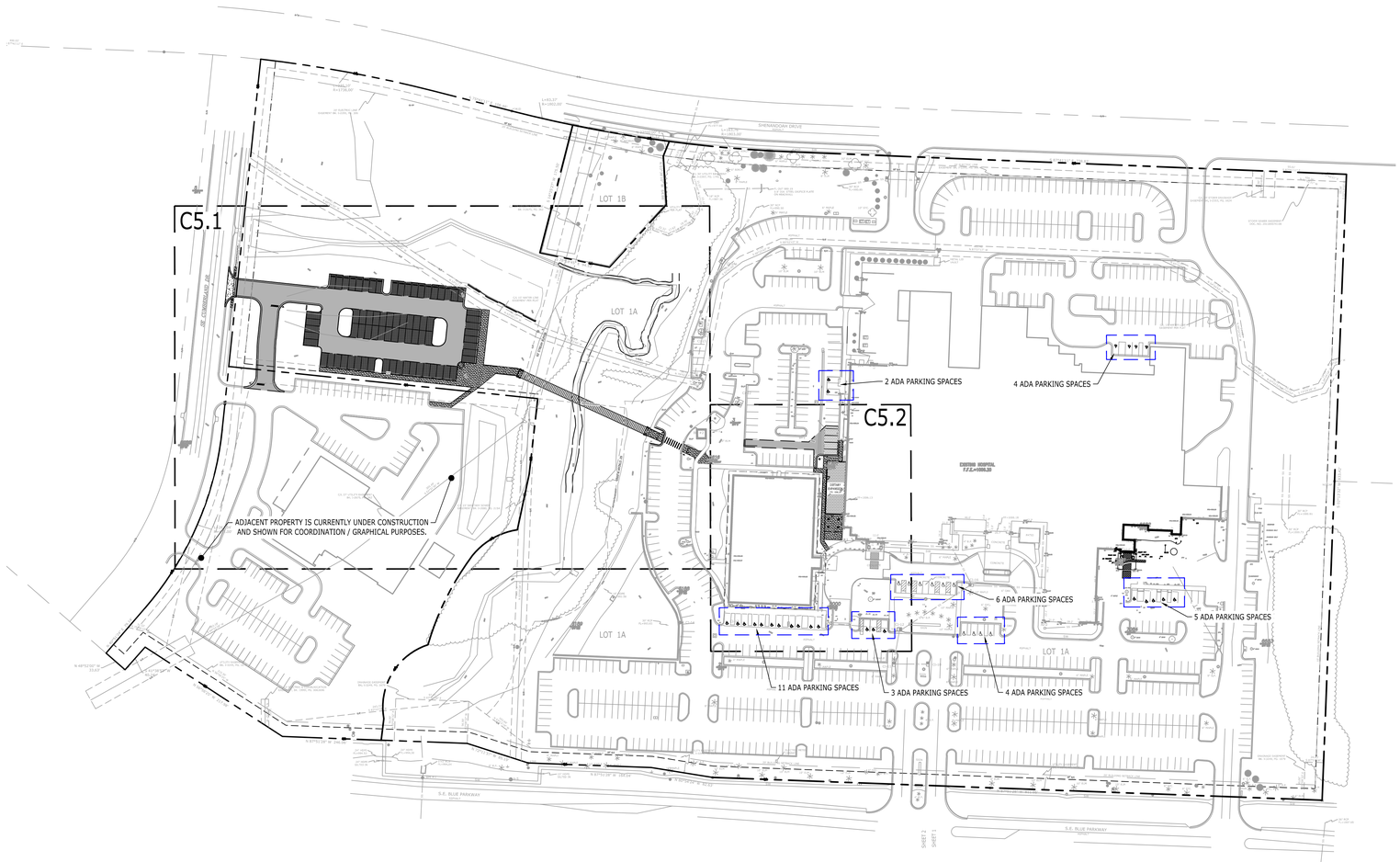
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

02/06/2025



LEGEND

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

SITE LAYOUT KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
S1A	ASPHALT PAVEMENT - LIGHT DUTY	1 / C8.0
S1B	ASPHALT PAVEMENT - HEAVY DUTY	1 / C8.0
S3B	CONCRETE POST CURB	10 / C8.0
S3C	CONCRETE CURB & GUTTER	2 / C8.0
S4A	CONCRETE SIDEWALK	5 / C8.0
S4B	CONCRETE SIDEWALK WITH TURN DOWN CURB	8 / C8.0
S4C	CONCRETE SIDEWALK AT CURB & GUTTER	3 / C8.0
S5	SIDEWALK JOINTS	6 / C8.0
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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CONSTRUCTION DOCUMENTS
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JACKSON COUNTY

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

DRAWING TITLE
OVERALL LAYOUT PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C5.0

Devenney GROUP
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STATE OF MISSOURI
JACK L. PARKER
NUMBER PE-2010040852
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04/24/2025

INPATIENT BED EXPANSION

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MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	2024/12/05
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OVERALL LAYOUT PLAN

C5.0

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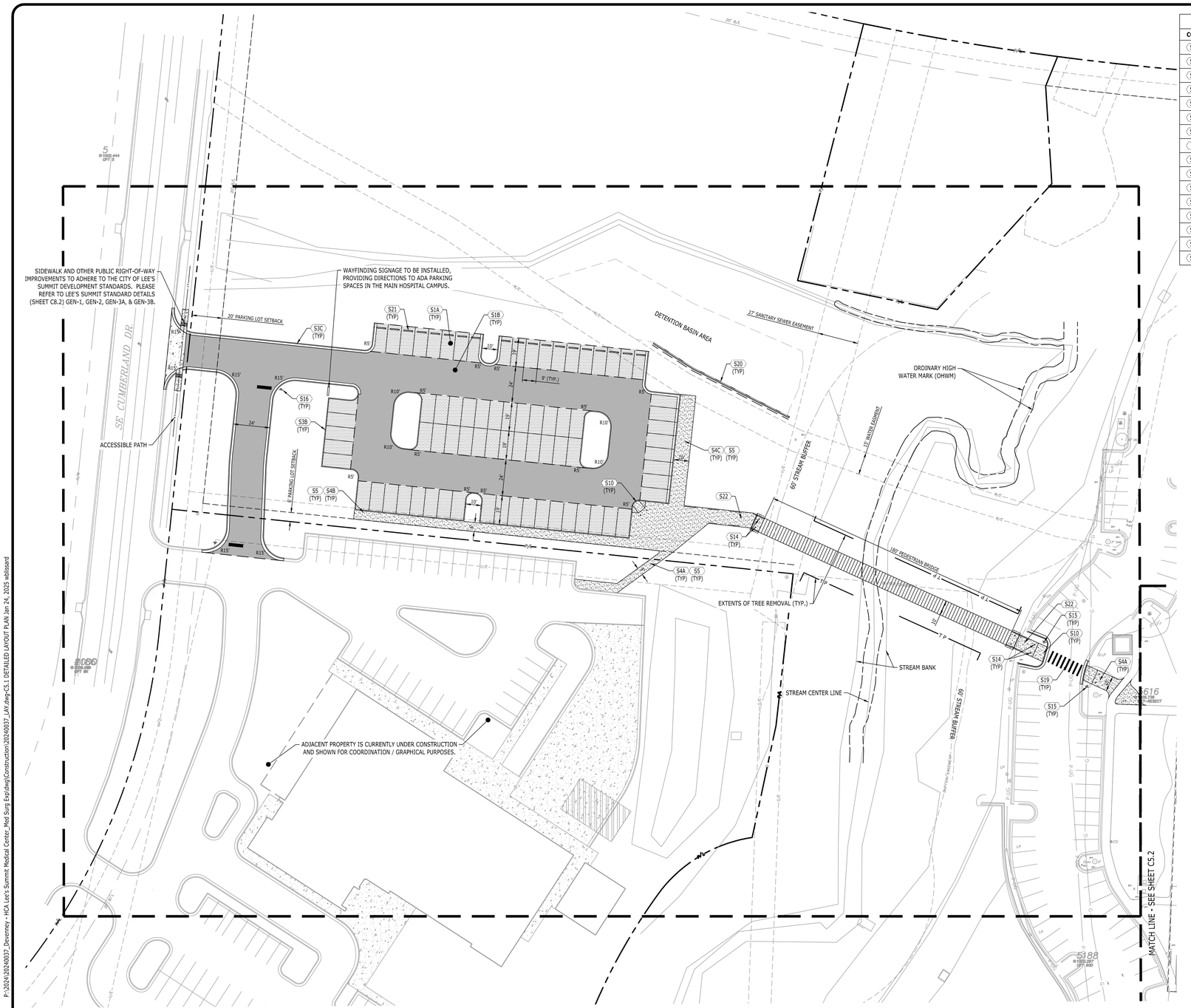

SITE LAYOUT KEYNOTES

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	
TACTILE WARNING	

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816-282-5000

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

CONSTRUCTION DOCUMENTS
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DRAWING TITLE
DETAILED LAYOUT PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C5.1

REVISIONS		
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DETAILED LAYOUT PLAN

C5.1

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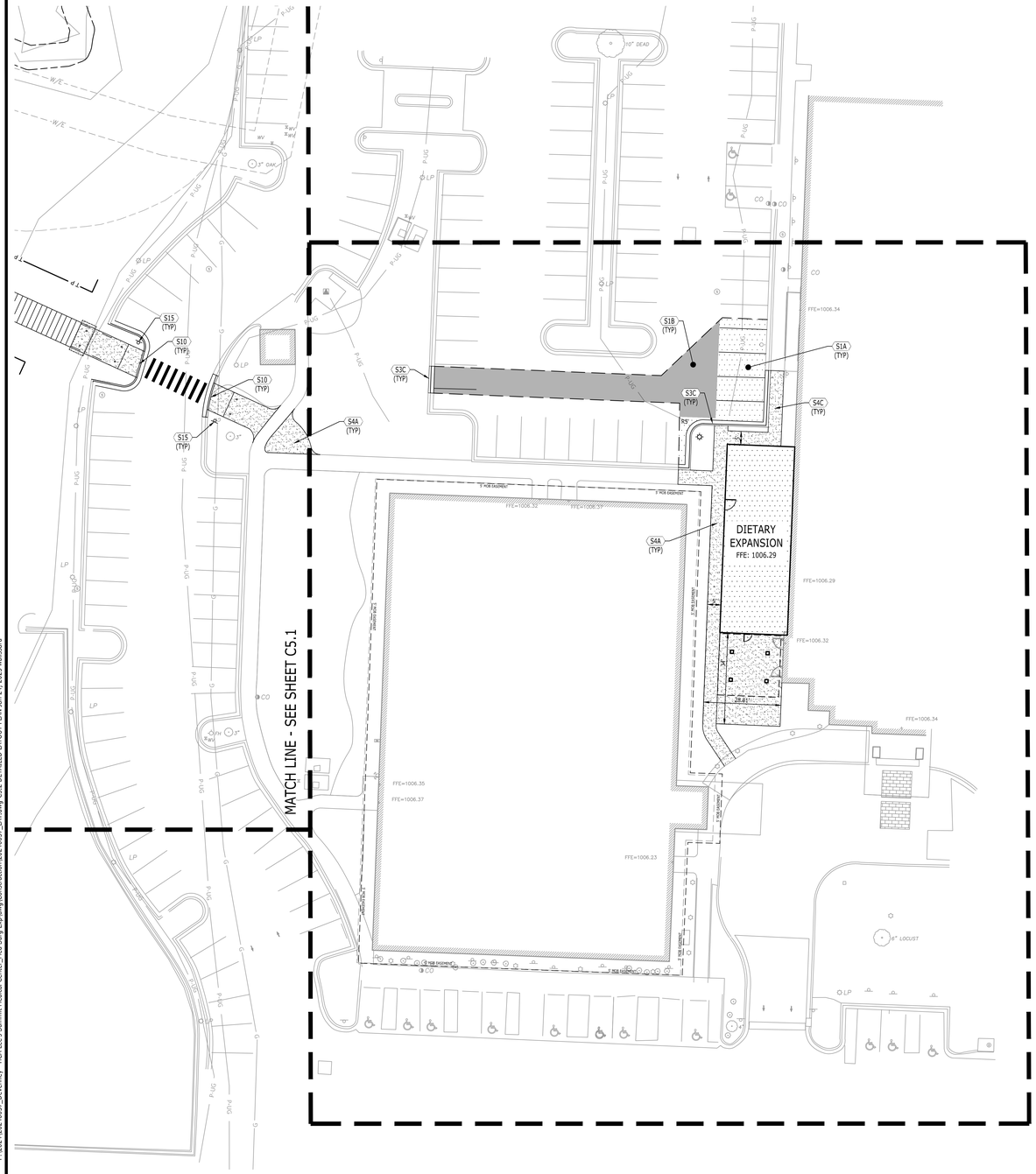

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LEGEND

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CONCRETE SIDEWALK	
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LIGHT DUTY PAVEMENT	
PAINTED STRIPE	
CONCRETE CURB	
CENTERLINE	

N

0 10 20 40 60
GRAPHIC SCALE

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DRAWING TITLE
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PROJECT NUMBER
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DRAWING NUMBER
C5.2

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JACK J. PARKER
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PROFESSIONAL ENGINEER
STATE OF MISSOURI
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MISSOURI DHSS

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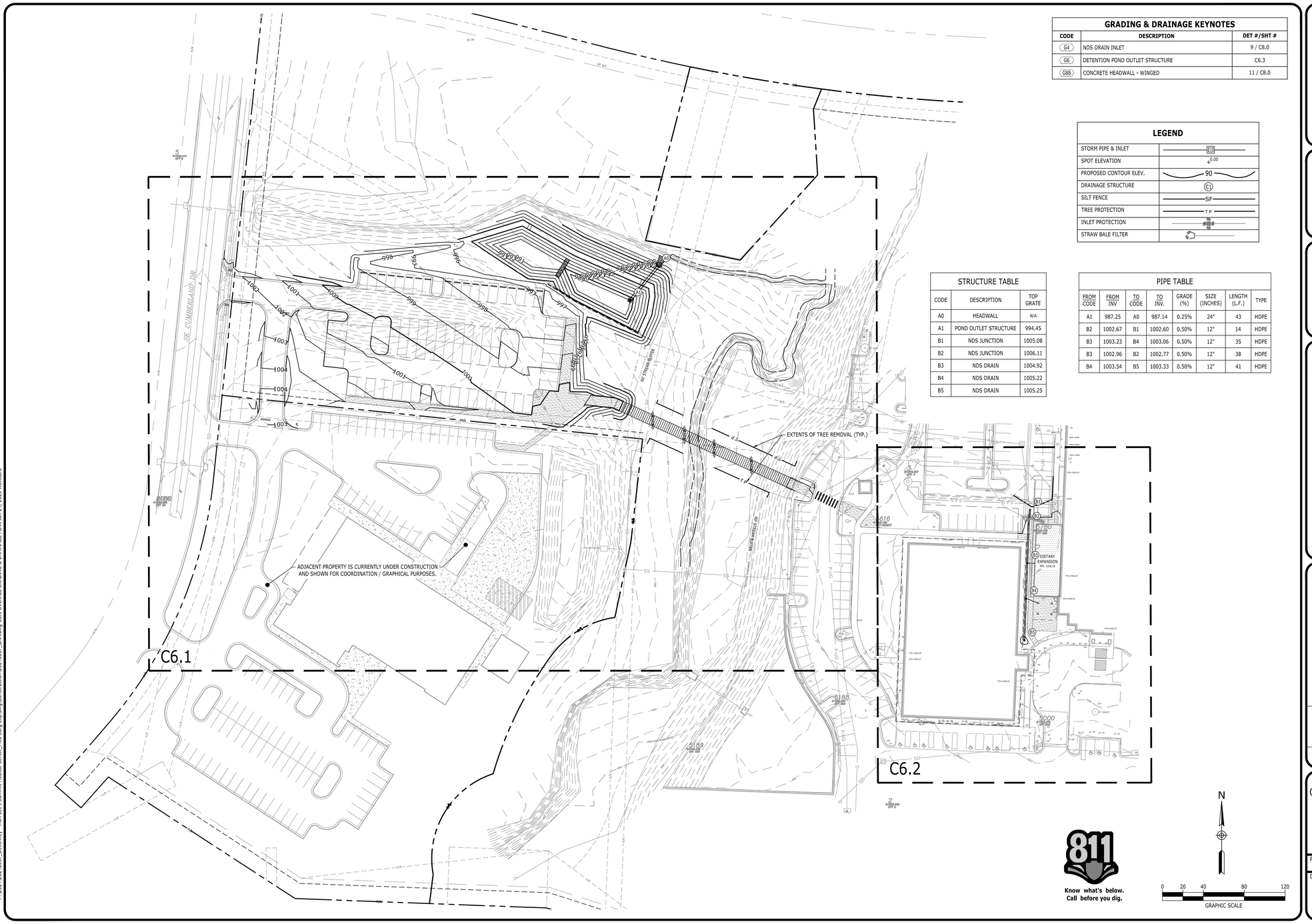

GRADING & DRAINAGE KEYNOTES

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	IP
STRAW BALE FILTER	SB

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

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0 20 40 80 120
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JACK T. PARKER NUMBER PE-2010040852 PROFESSIONAL ENGINEER
STATE OF MISSOURI
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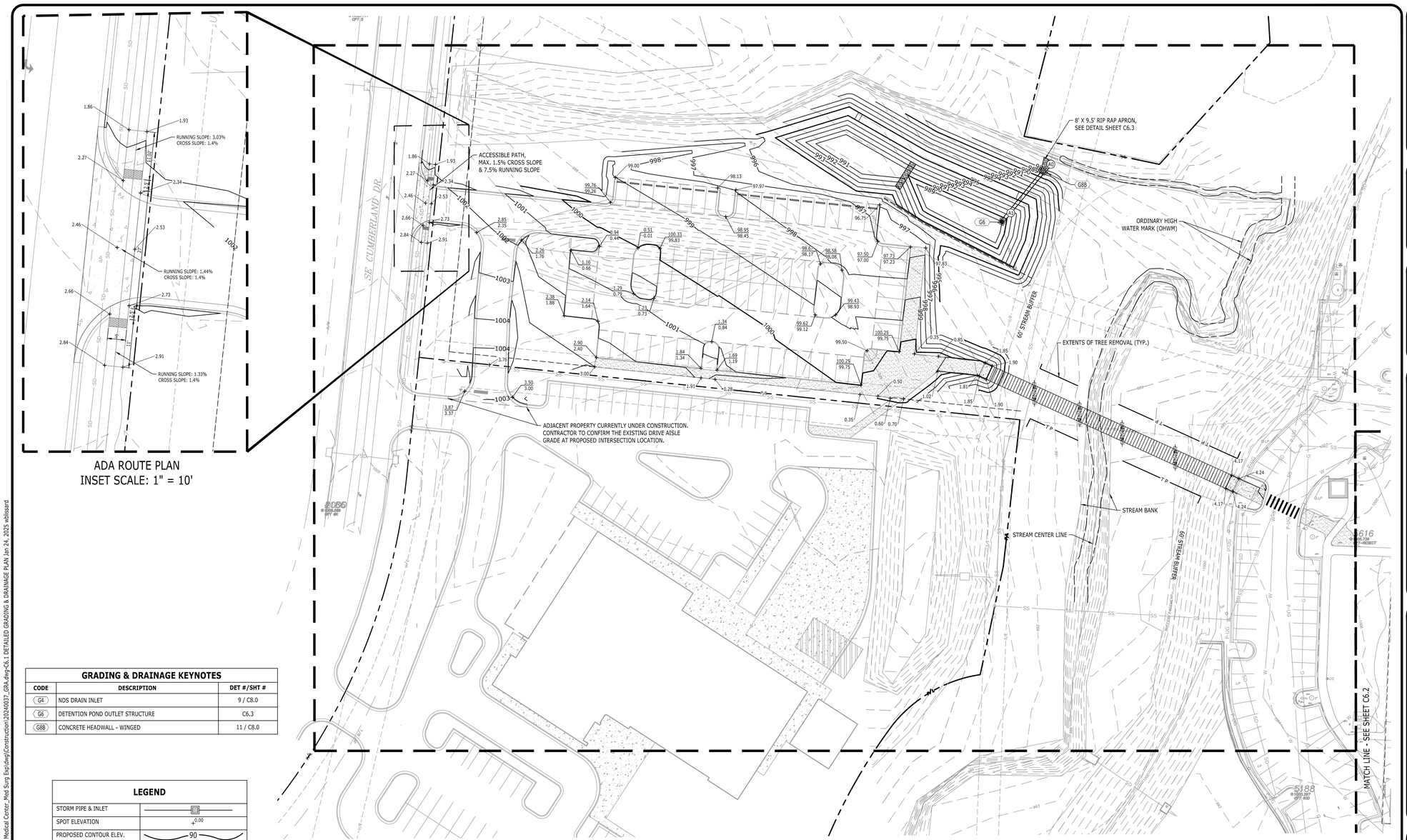

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G8B	CONCRETE HEADWALL - WINGED	11 / C8.0

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	

811
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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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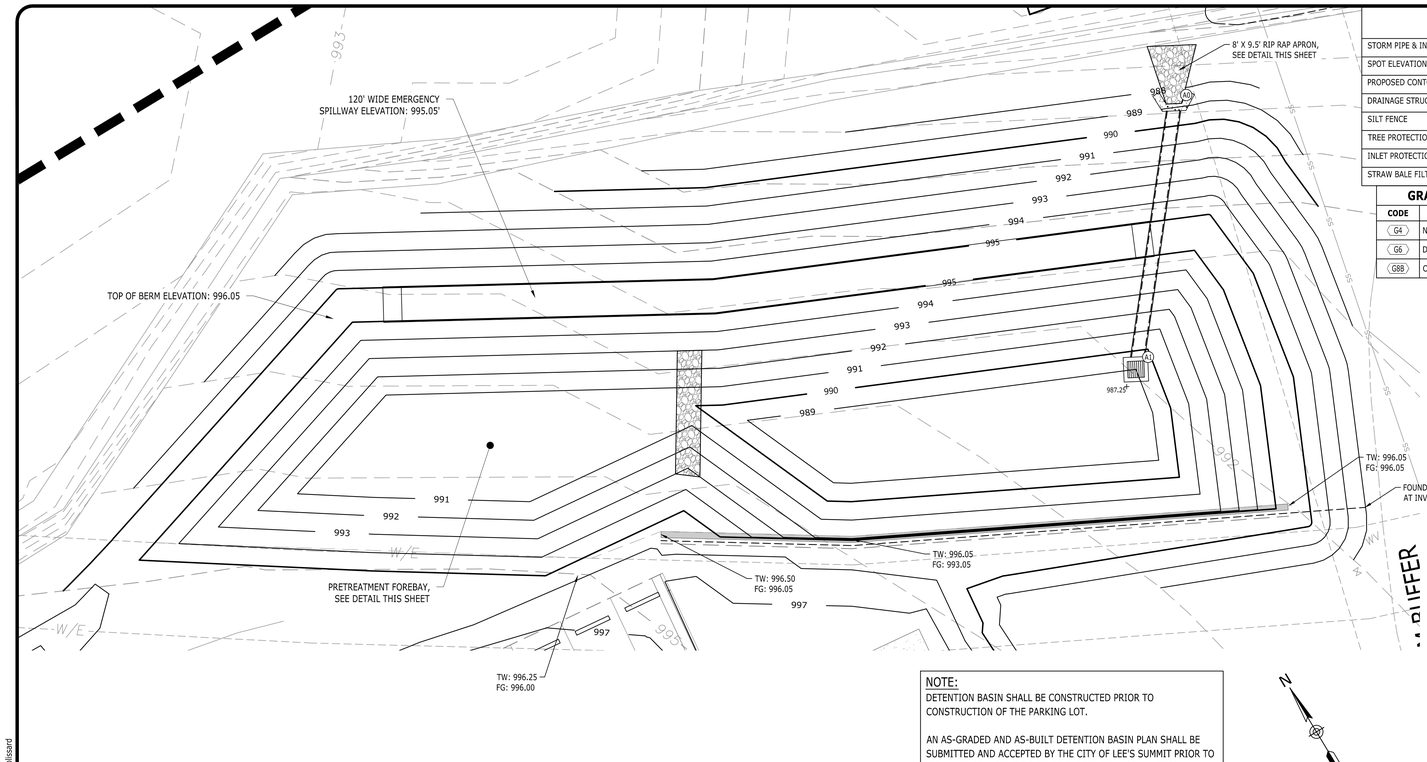

LEGEND

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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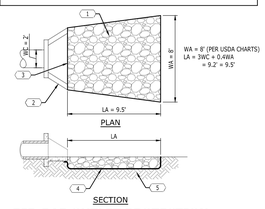
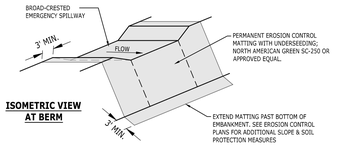
KEYNOTES

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

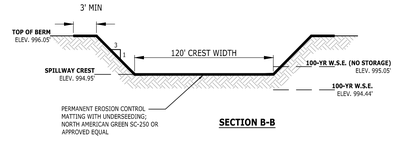
NOTE:
1. RIP-RAP STONE SHALL BE "FRACTURED FACED" WITH AT LEAST THREE DISTINCT SIDES. PROVIDE AND INSTALL IN ACCORDANCE WITH SECTION 2600 OF THE CURRENT EDITION OF APWA SPECIFICATIONS FOR STORM SEWER CONSTRUCTION.
2. d50 BY DEFINITION = 50 PERCENT OF THE STONE BY WEIGHT SHALL BE THE SIZE NOTED OR SMALLER.
3. THE CONTRACTOR SHALL UNIFORMLY DISTRIBUTE STONE SIZES THROUGHOUT THE RIP-RAP PAD.



RIP-RAP OUTLET PROTECTION
NOT TO SCALE



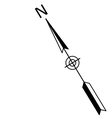
ISOMETRIC VIEW AT BERM



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.



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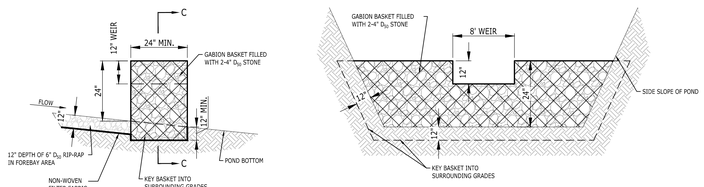
GRAPHIC SCALE

EMERGENCY SPILLWAY

SECTION C-C

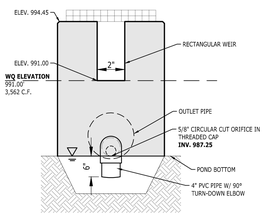


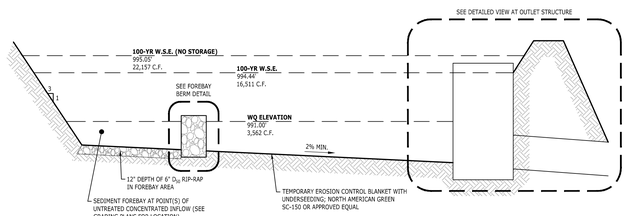
FOREBAY BERM

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.

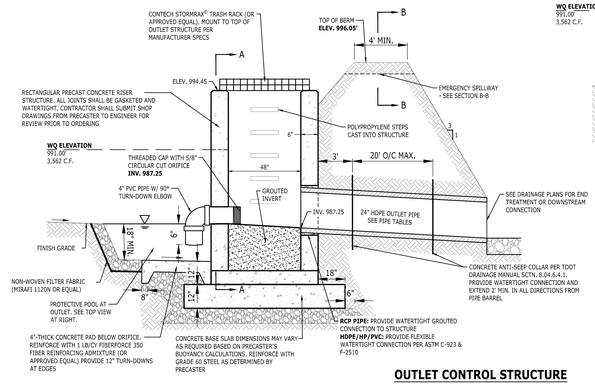
SECTION A-A



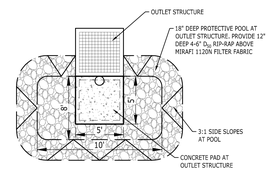


GENERIC BASIN SECTION VIEW

DRY DETENTION POND
NOT TO SCALE



OUTLET CONTROL STRUCTURE



TOP VIEW AT POOL

Devenney GROUP

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TENNESSEE MICHAEL PARKER NUMBER PE-2017040852 PROFESSIONAL ENGINEER
03/24/2025

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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
DETENTION BASIN DETAILS

PROJECT NUMBER
20240037

DRAWING NUMBER
C6.3

DATE:	2024/12/05
SCALE:	1:10
DRAWN:	AP
REVIEWED:	WB
JOB NUMBER:	6406.24

DETENTION BASIN DETAILS

C6.3

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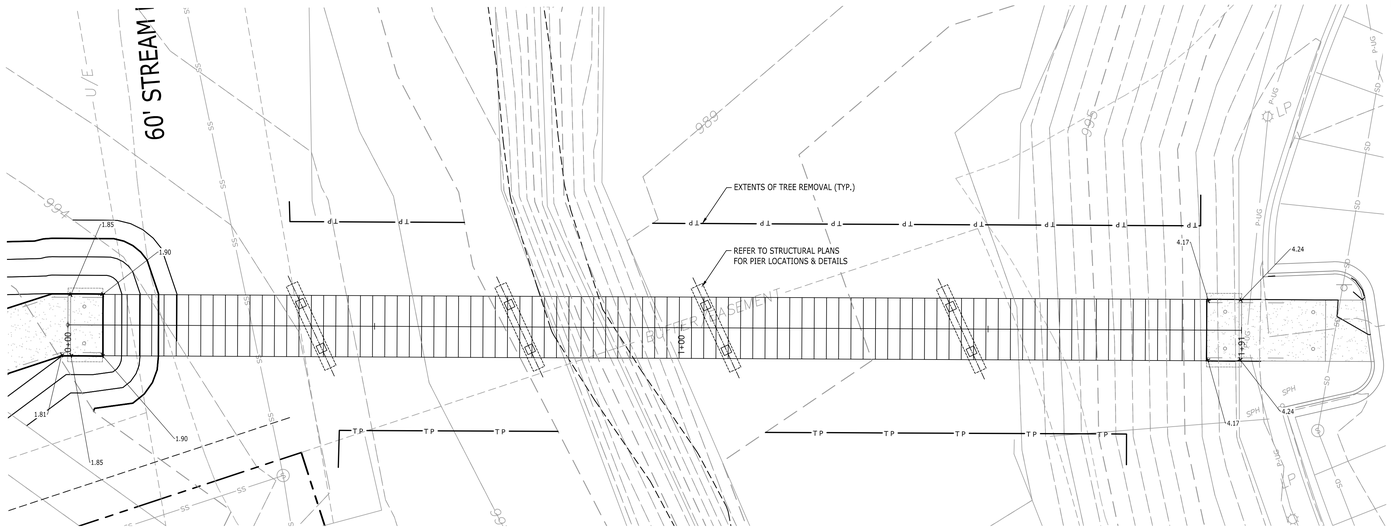
Development Services Department
Lee's Summit, Missouri

02/06/2025

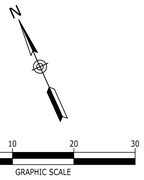
GRADING & DRAINAGE KEYNOTES

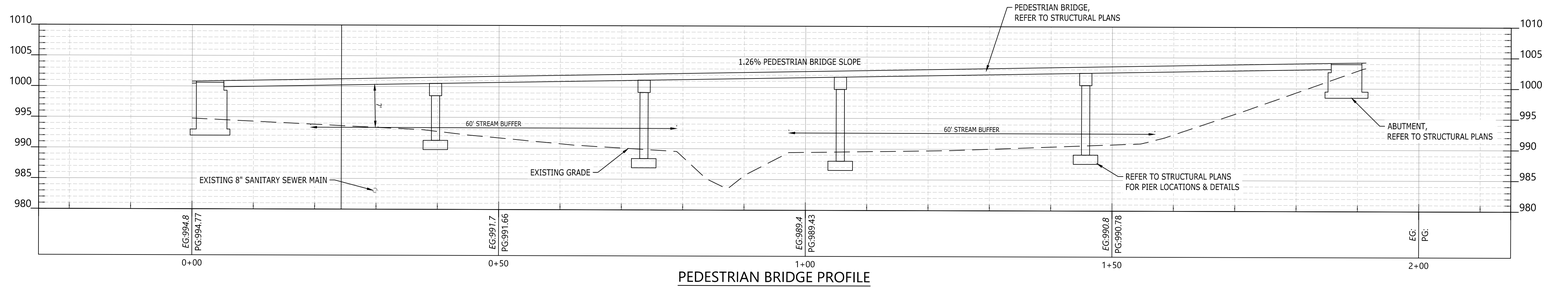
CODE	DESCRIPTION	DET # / SHT #
G4	NDS DRAIN INLET	9 / C8.0
G6	DETENTION POND OUTLET STRUCTURE	C6.3
G88	CONCRETE HEADWALL - WINGED	11 / C8.0



LEGEND

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





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

811
Know what's below.
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NO.	DATE	DESCRIPTION
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DRAWING TITLE
PEDESTRIAN BRIDGE
PLAN & PROFILE

PROJECT NUMBER
20240037

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

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MISSOURI DHSS

FACILITY NUMBER:
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PEDESTRIAN BRIDGE
PLAN & PROFILE

C6.4

P:\2024\20240037_Devenney • HCA Lee's Summit Medical Center_Med Surg Exp\dwg\Construction\20240037_GRA.dwg>C6.4 PEDESTRIAN BRIDGE PLAN & PROFILE Jan 24, 2025 wbissard

Autodesk Docs://6406.24.0001 - HCA - LSMC MedSurg Expansion_rvt23/6406.24.0001 HCA - LSMC Med Surge Expansion.rvt

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MISSOURI DHSS

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AGENCY

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REV #	DESCRIPTION	DATE

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REVIEWED:	WB
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OVERALL UTILITY PLAN

C7.0

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JACKSON COUNTY

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

DRAWING TITLE
OVERALL UTILITY PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
C7.0

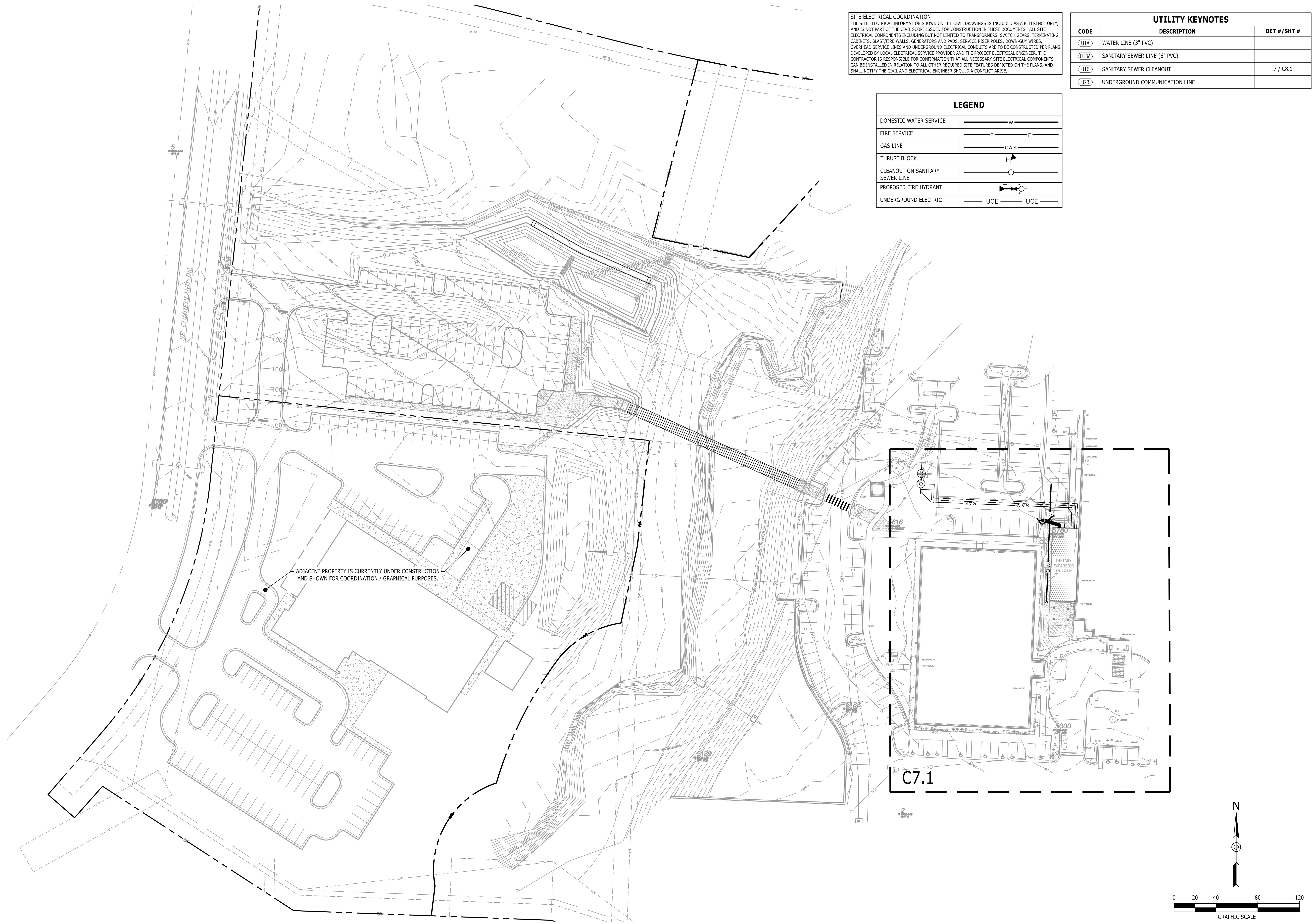
SITE ELECTRICAL COORDINATION
THE SITE ELECTRICAL INFORMATION SHOWN ON THE CIVIL DRAWINGS IS INCLUDED AS A REFERENCE ONLY, AND IS NOT PART OF THE CIVIL SCOPE ISSUED FOR CONSTRUCTION IN THESE DOCUMENTS. ALL SITE ELECTRICAL COMPONENTS INCLUDING BUT NOT LIMITED TO TRANSFORMERS, SWITCH GEARS, TERMINATING CABINETS, BLAST/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.

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	

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 ——



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MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

REVISIONS

REV #	DESCRIPTION	DATE

DATE:	2024/12/05
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REVIEWED:	WB
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DETAILED UTILITY PLAN

C7.1

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JACKSON COUNTY

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DETAILED UTILITY PLAN

PROJECT NUMBER
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DRAWING NUMBER
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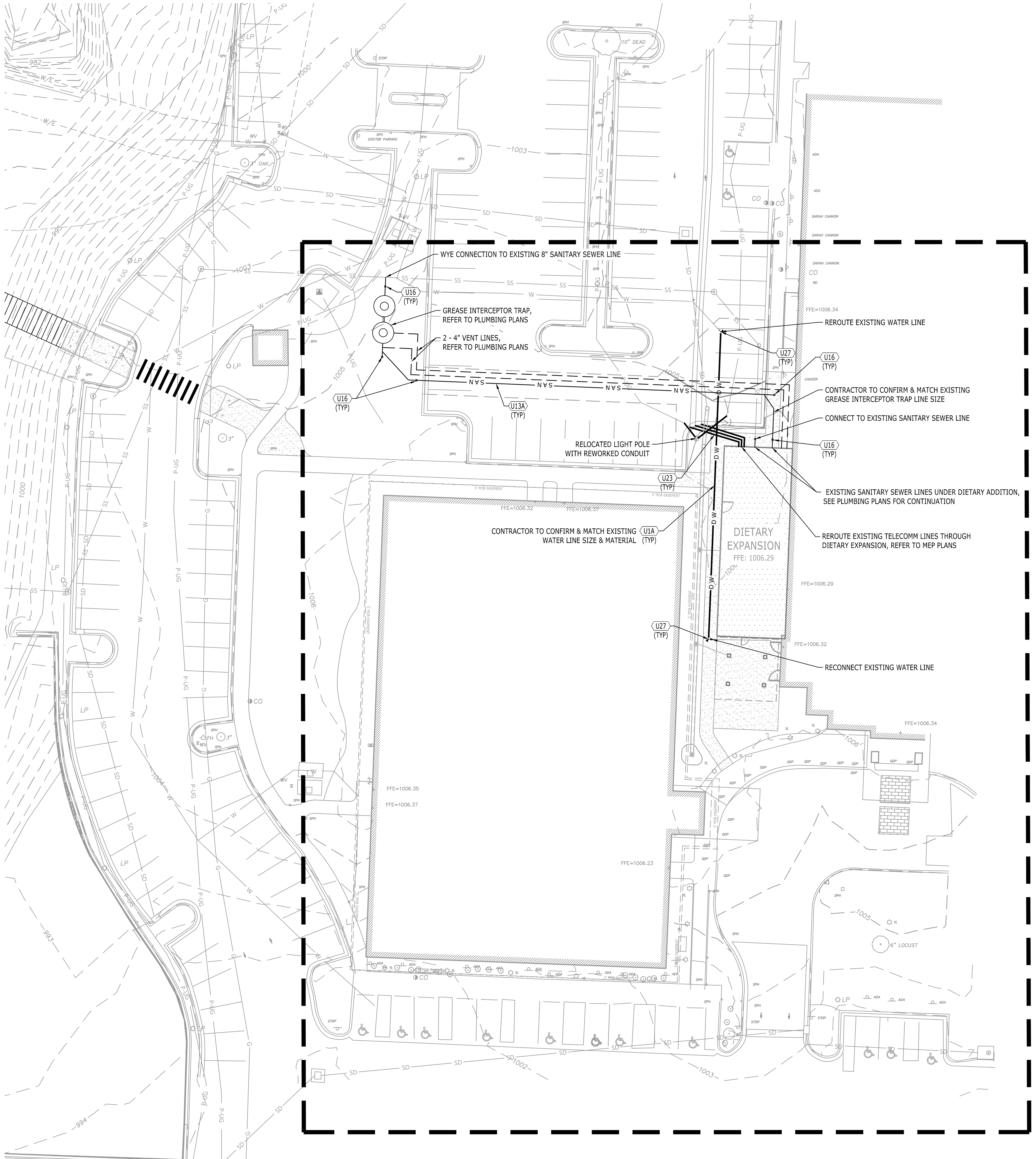
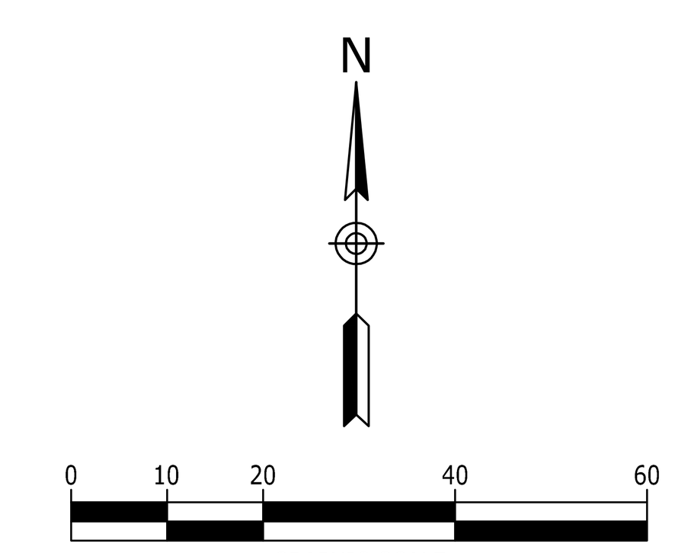
U23	UNDERGROUND COMMUNICATION LINE	
U27	THRUST BLOCK	6 / C8.1

LEGEND

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





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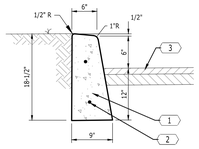
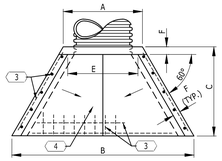


KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE; 3500 PSI
2	NO. 4 BAR, CONTINUOUS; (2 TYP.)
3	FINISHED PAVEMENT GRADE

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"

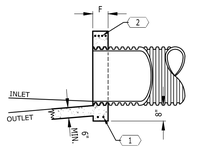


PLAN

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"	
WT. (LB)	1090	3130	5625	8575

L

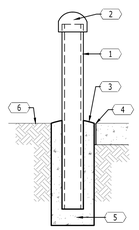
* 0" ON 4' WINGED HEADWALL



SECTION A-A ELEVATION

11 WINGED HEADWALL

NOT TO SCALE

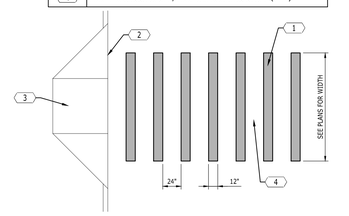


KEYNOTES	
CODE	DESCRIPTION
2	PREFABRICATED CAP
1	6"ø X 6'-8" STEEL PIPE BOLLARD FILLED WITH CONCRETE. PRIME WITH SUITABLE PRIMER AND PAINT IN A COLOR TO BE SELECTED BY THE ARCHITECT.
3	1" CROWN
4	1/2" EXPANSION JOINT MATERIAL, AASHTO M-33, WHERE PLACED IN A RIGID PAVEMENT AREA.
5	3500 PSI CONCRETE
6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

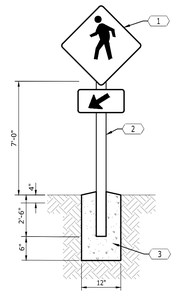
NOT TO SCALE

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.

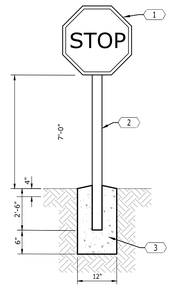


7 PEDESTRIAN CROSSWALK

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.

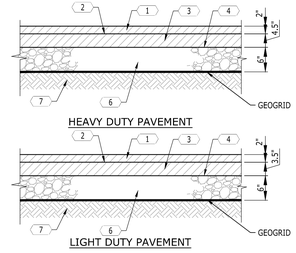


4 STOP SIGN

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

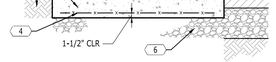
NOTES:
1. USE 3500 PSI CONCRETE AND ASTM GRADE 60 STEEL.
2. PROVIDE CONTROL JOINTS 5' APART AND EXPANSION JOINTS 25' APART AND WHERE SIDEWALK ABUTS RIGID MATERIAL.

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 ½" OF WALKWAY SURFACE
6	4" MINERAL AGGREGATE BASE
7	ASPHALT PAVEMENT (REFER TO DETAIL)

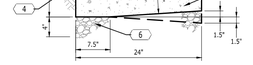
NOTE: SIDEWALKS TO HAVE A MAXIMUM LONGITUDINAL SLOPE OF 7.5%.



5 CONCRETE SIDEWALK

NOT TO SCALE

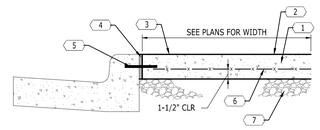
KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE; 3500 PSI
2	SPILL CURB
3	CATCH CURB; TRANSITION FROM CATCH TO SPILL CURB OVER 10' LENGTH (TYP.)
4	CONCRETE REINFORCEMENT; NO. 4 BAR, CONTINUOUS (3 TYP.)
5	BACKFILL BEHIND CURB
6	4" MINERAL AGGREGATE BASE



2 CONCRETE CURB AND GUTTER

NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	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	½" 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)

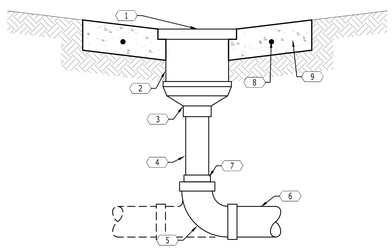


3 CONCRETE SIDEWALK AT CURB AND GUTTER

NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
5	8" PVC ELL OR TEE
6	8" PVC STORM PIPE
7	8" X 6" PVC REDUCER. MAY BE OMITTED IF REDUCING TEE IS USED.
8	No. 4 BAR, CONT.
9	4" THICK CONCRETE COLLAR

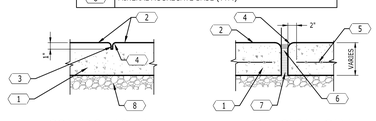
KEYNOTES	
CODE	DESCRIPTION
1	NDS 1211 GRATE
2	NDS 1216 RISER BOX
3	NDS 1230 HUB ADAPTOR
4	6" PVC, LENGTH AS REQ'D



9 12" NDS DRAIN INLET

NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE SIDEWALK
2	BROOM FINISH
3	½" HAND-GROOVED JOINT
4	TOOLED EDGE; ½" RADIUS (TYP.)
5	CONCRETE REINFORCEMENT; 6"x6"xW2.9x22.9 W.W.F.; GRADE 60 STEEL
6	POLYURETHANE SELANT
7	½" PREMOLDED EXPANSION JOINT MATERIAL
8	MINERAL AGGREGATE BASE (TYP.)



CONTROL JOINT EXPANSION JOINT

6 SIDEWALK JOINTS

NOT TO SCALE

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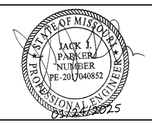
Consultant:
Catalyst DESIGN GROUP
1524 WILLIAMS DRIVE, SUITE 201, MURFREESBORO, TN 37129
(615) 622-7200 | WWW.CATALYST-DG.COM



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

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

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

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

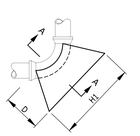
RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

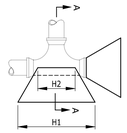
02/06/2025

NOTE:

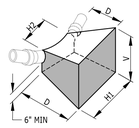
DIMENSIONS ARE BASED ON A SOIL BEARING CAPACITY OF 1000 PSF AND WATER PRESSURE OF 150 PSI (100 PSI + 50% FOR WATER HAMMER).



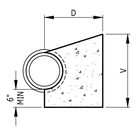
BENDS



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"

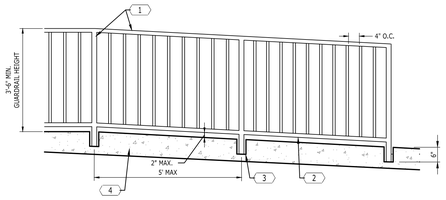
PIPE SIZE	TEES AND PLUGS			
	H1	H2	D	V
4"	24"	12"	12"	16"
6"	30"	16"	18"	24"
8"	40"	18"	18"	30"

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".

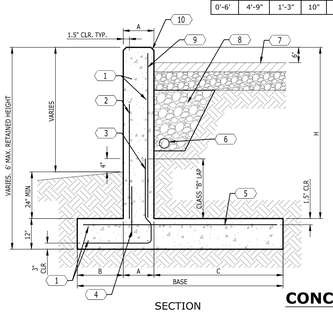


4 GUARDRAIL
NOT TO SCALE

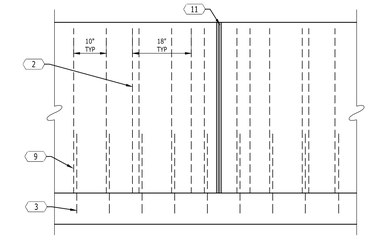
KEYNOTES	
CODE	DESCRIPTION
1	BARS "L"
2	BARS "V2"
3	BARS "D"
4	No. 4 BARS 18" LONG, 18" APART
5	BARS "T"
6	4" PERFORATED PVC FOUNDATION DRAIN.
7	PAVEMENT SURFACE
8	FREE-DRAINING STONE FILL
9	BARS "V1"
10	1" CHAMFER, TYP.
11	1" DEEP VEE CONTROL JOINT. SPACE 15' APART MAX. EACH FACE. CUT ALTERNATE HORIZONTAL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

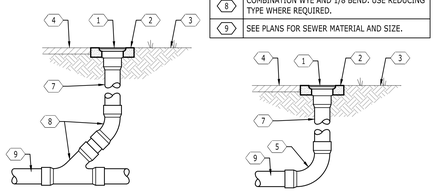


SECTION



ELEVATION

1 CONCRETE RETAINING WALL
NOT TO SCALE



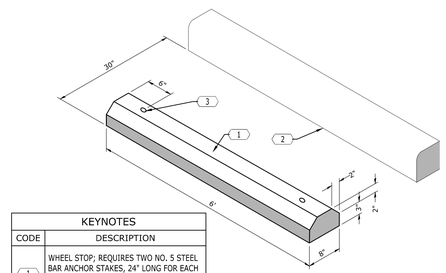
TWO-WAY

ONE-WAY

END-OF-LINE

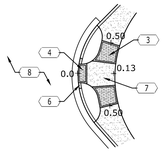
KEYNOTES	
CODE	DESCRIPTION
1	CLEANOUT WITH COVER; BRONZE OR PVC CLEANOUT WITH RECESSED CAP IN LAWN AREAS. CAST IRON CLEANOUT WITH RECESSED CAP IN PAVEMENT AREAS. BRONZE CAP TO BE USED IN SIDEWALKS.
2	18"x18"x4" CONCRETE COLLAR
3	FINISHED GRADE
4	ASPHALT
5	LONG SWEEP 1/4 BEND. INSTALL REDUCER WHERE REQUIRED.
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.

7 CLEANOUTS
NOT TO SCALE

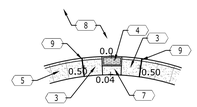


KEYNOTES	
CODE	DESCRIPTION
1	WHEEL STOP; REQUIRES TWO NO. 5 STEEL BAR ANCHOR STAKES, 24" LONG FOR EACH SECTION; EACH SECTION REINFORCED WITH TWO NO. 3 DEFORMED BARS
2	FACE OF CURB OR EDGE OF PAVEMENT
3	1" DIA. HOLE (TYP.)

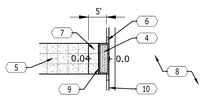
8 PRECAST CONCRETE WHEEL STOP
NOT TO SCALE



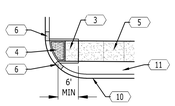
ACCESSIBLE CURB RAMP "A"



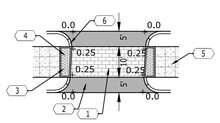
ACCESSIBLE CURB RAMP "B"



ACCESSIBLE CURB RAMP "C"



ACCESSIBLE CURB RAMP "D"

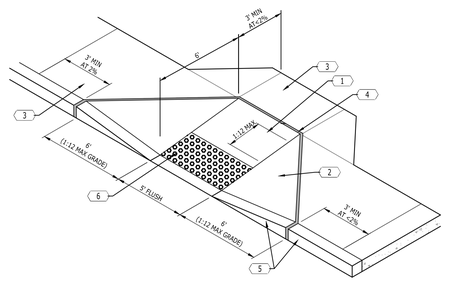


CURB RAMP AT RAISED PEDESTRIAN CROSSWALK

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

3 ACCESSIBLE CURB RAMPS
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	CONCRETE RAMP; 4" THICK, 3500 PSI CONCRETE; CONCRETE REINFORCED WITH 6"x6"xW2.9xW2.9 W.W.F.; BEDDING SIMILAR TO ADJACENT SIDEWALK
2	FLARED SIDES; PROVIDE A SMOOTH TRANSITION FROM FLUSH CONDITION TO ADJACENT CURB AND SIDEWALK ELEVATIONS
3	LANDING; MINIMUM 3' FLAT (2% MAX. SLOPE); PROVIDED EACH SIDE OF RAMP
4	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
NOT TO SCALE

2 RESERVED
NOT TO SCALE

Devenney GROUP

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CONSTRUCTION DOCUMENTS
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MEDICAL CENTER
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MEDICAL CENTER
2100 SE BLUE PKWY
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AUTHORITY HAVING JURISDICTION:
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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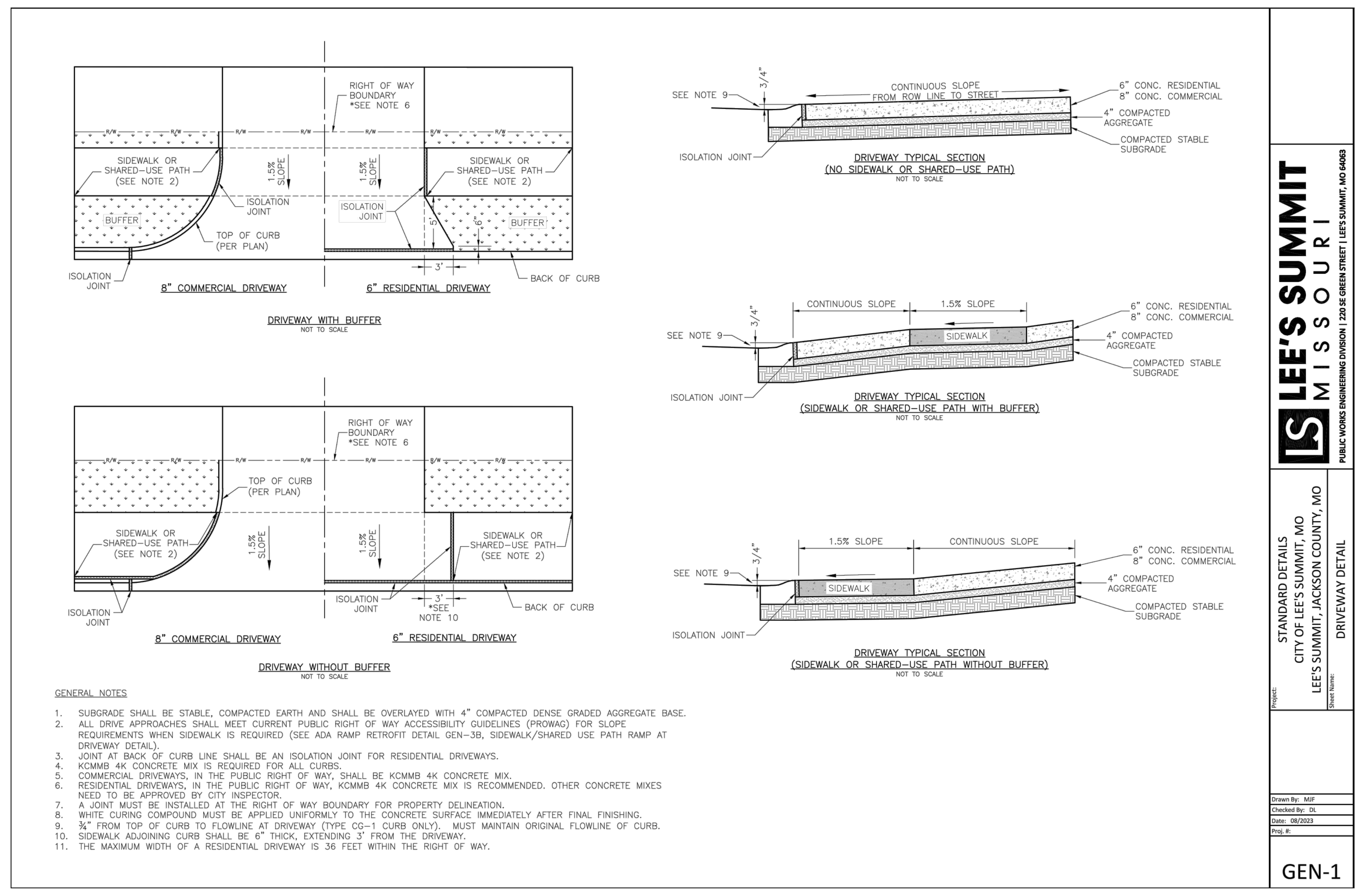
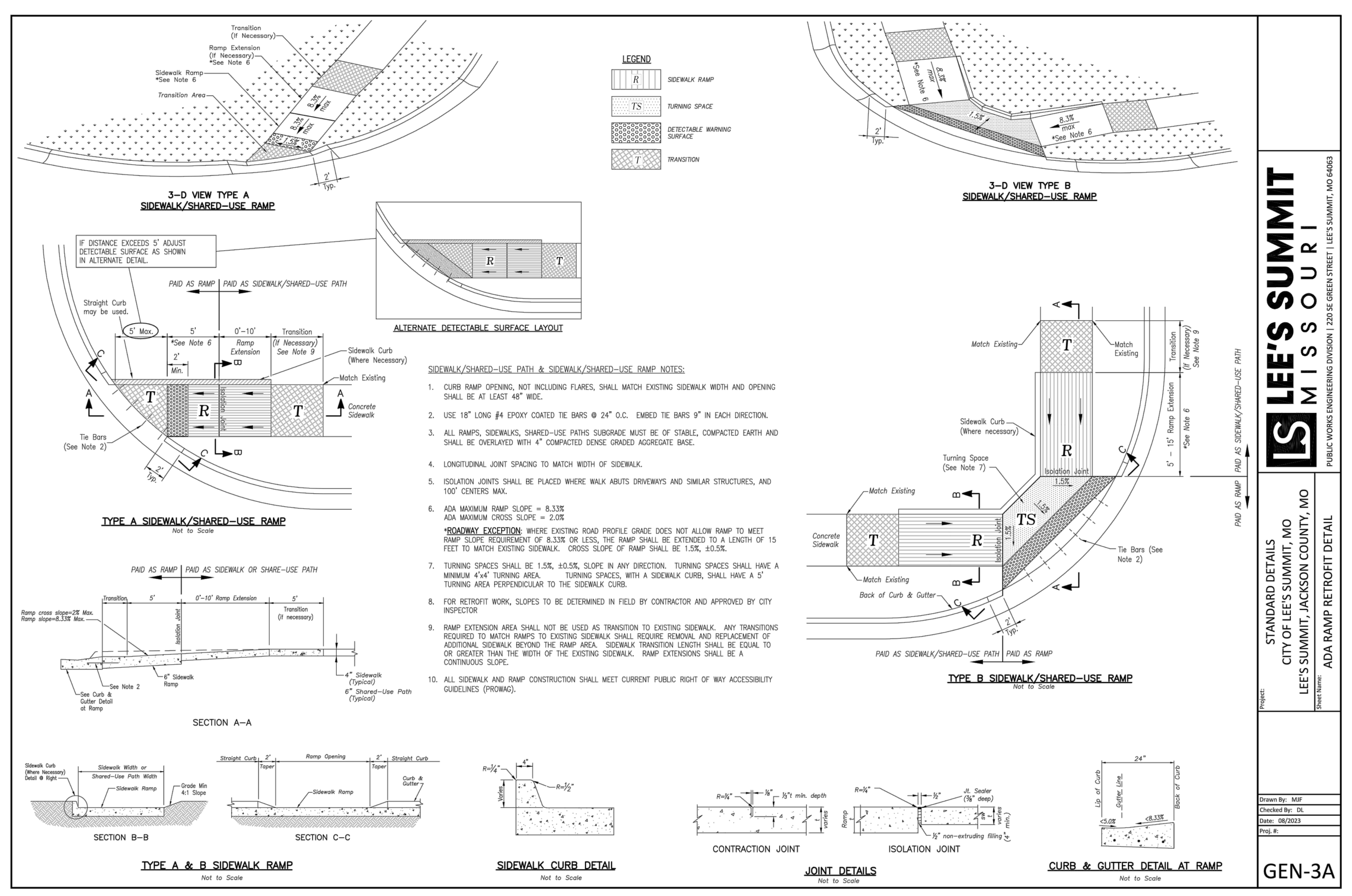
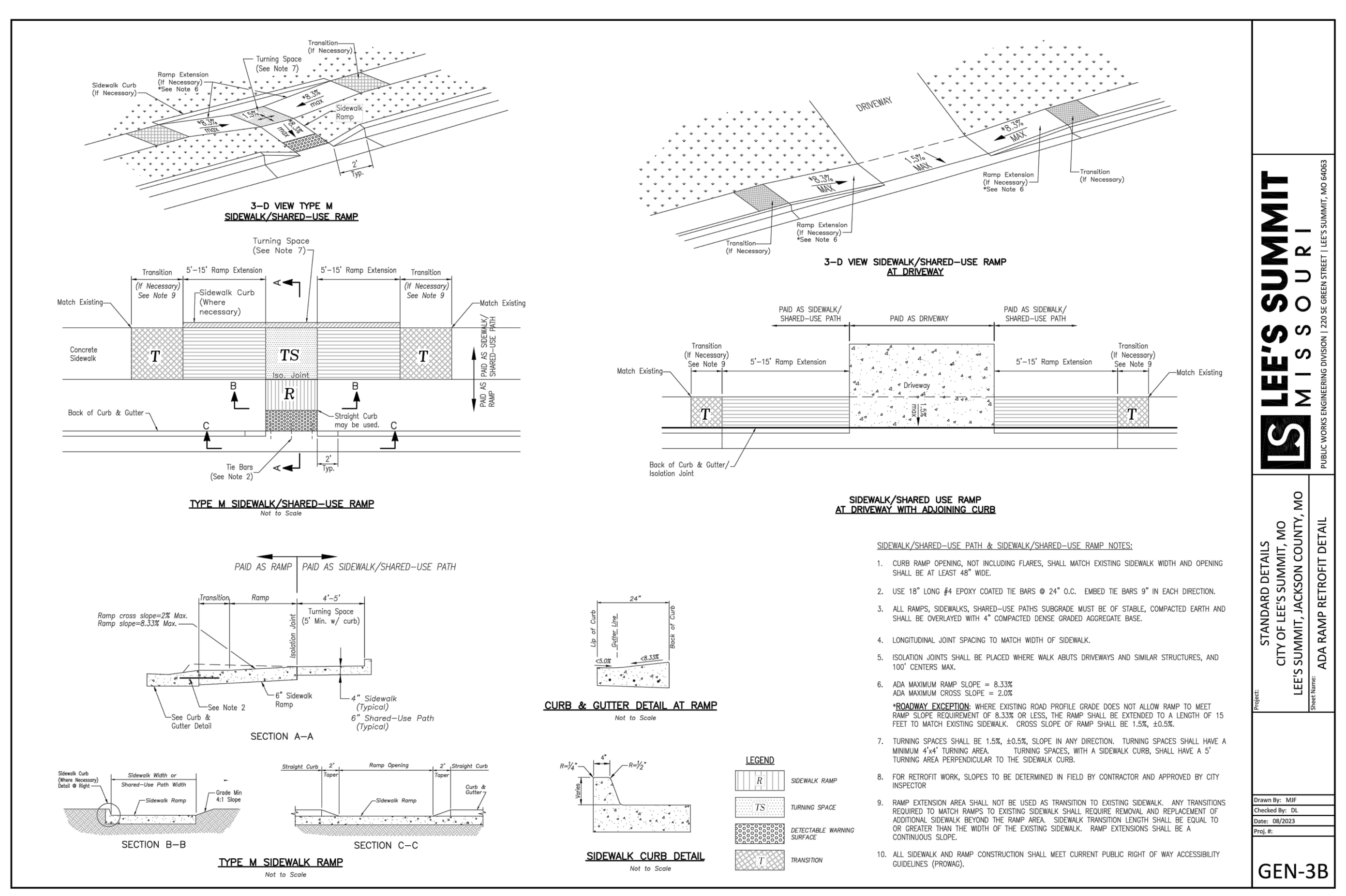
RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

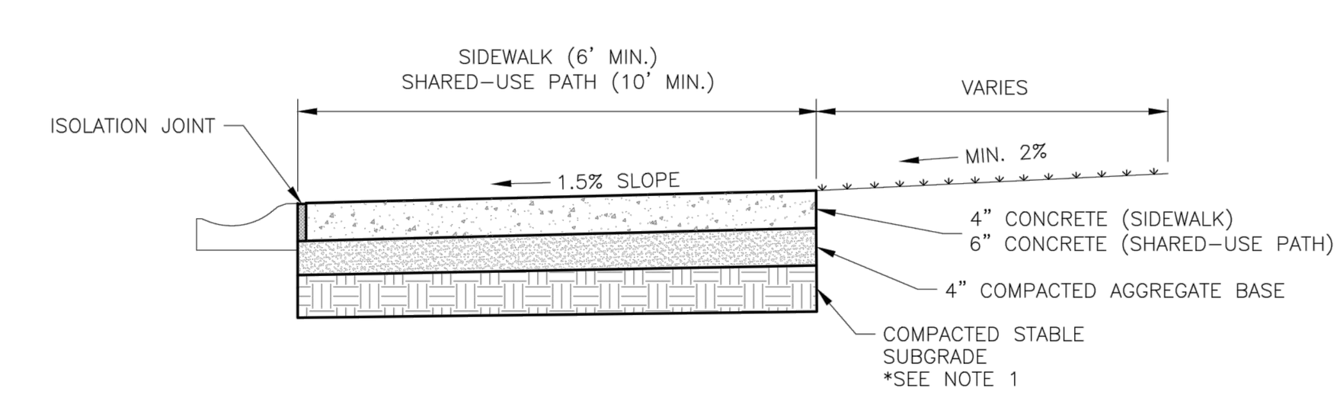
02/06/2025



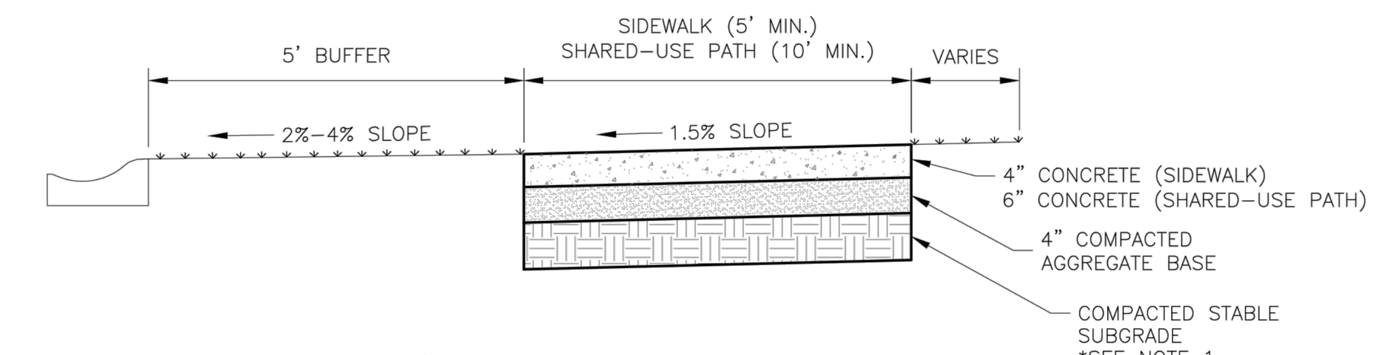




3 RESERVED
NOT TO SCALE



SIDEWALK/SHARED-USE PATH WITHOUT BUFFER
NOT TO SCALE



SIDEWALK/SHARED-USE PATH WITH BUFFER
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

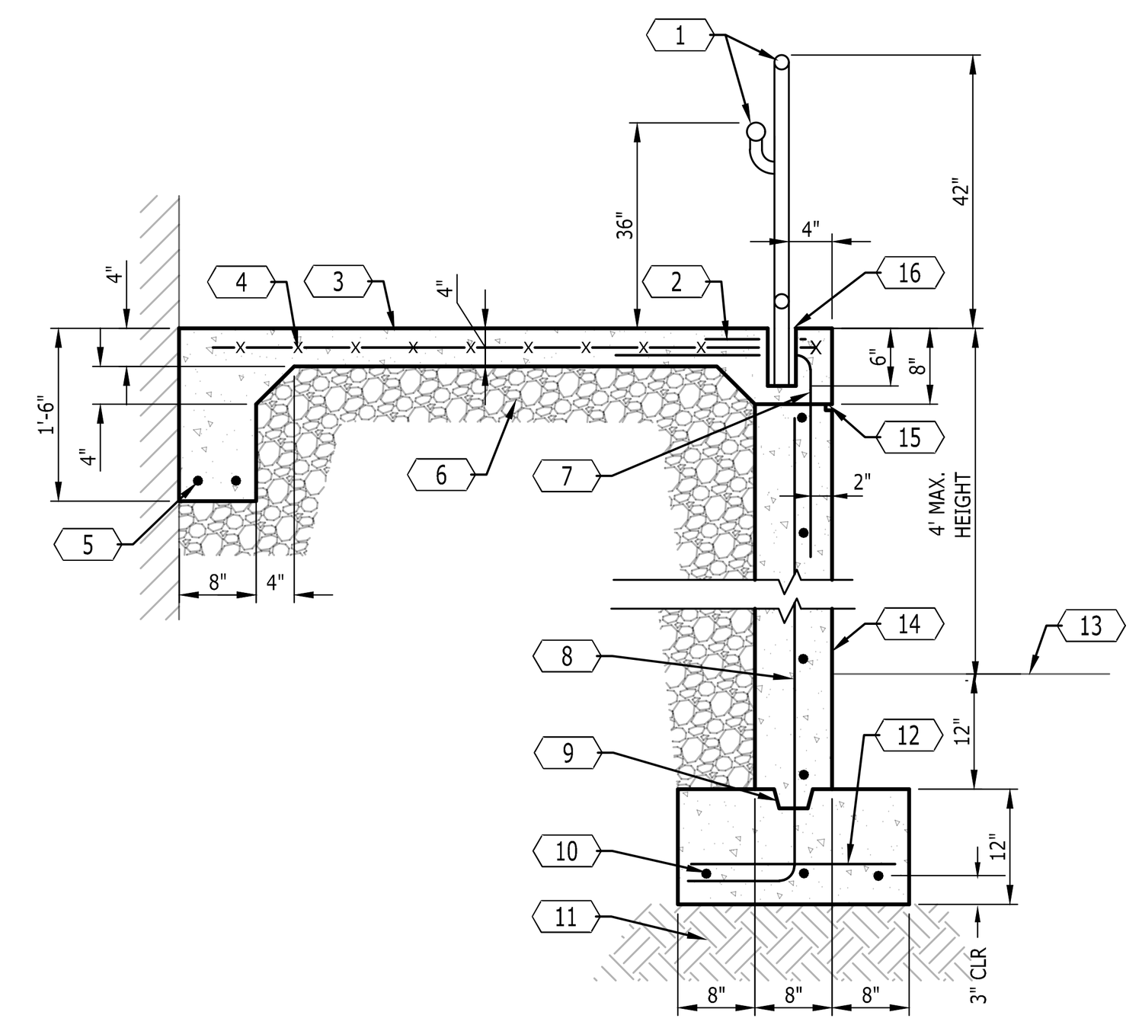
SIDEWALK/SHARED-USE PATH DETAIL

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

GEN-2

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.

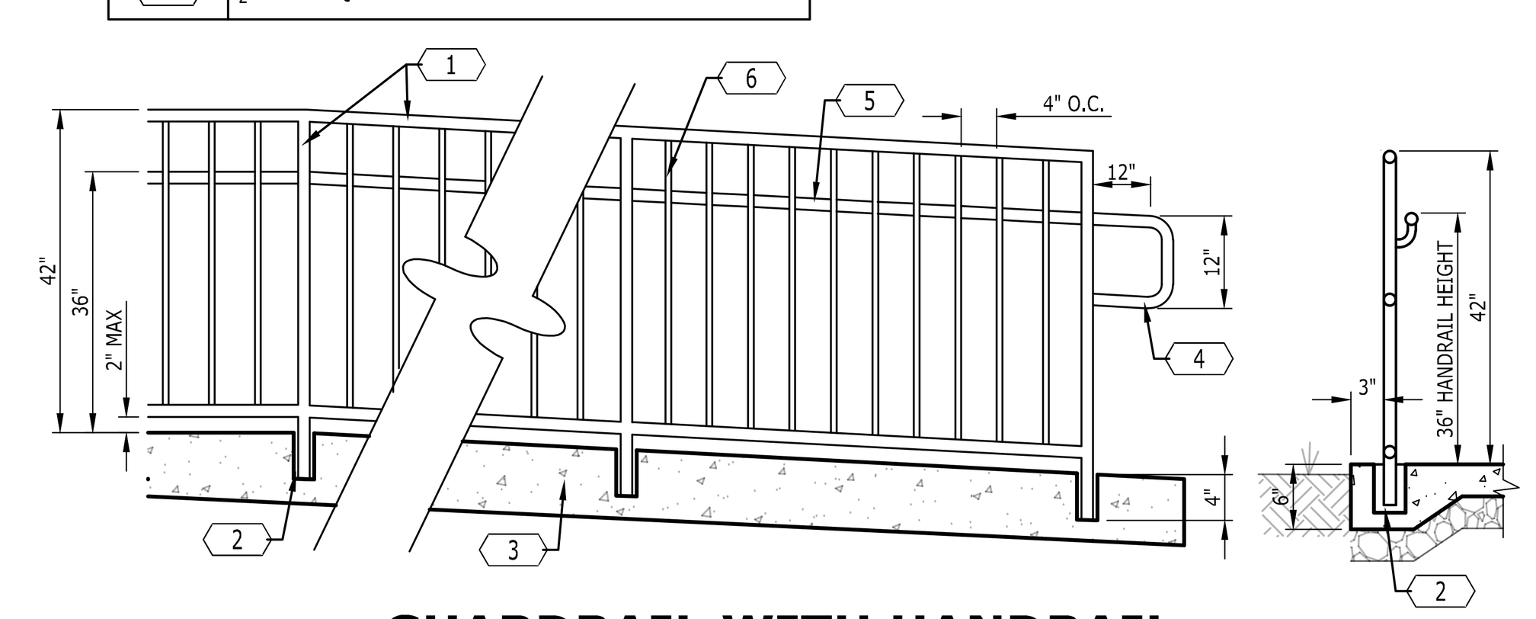
NOTE:
USE 3500 PSI CONCRETE AND ASTM GRADE 60 STEEL BARS.



1 ELEVATED WALK
NOT TO SCALE

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	½" 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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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
SITE DETAILS

PROJECT NUMBER
20240037

DRAWING NUMBER
C8.2

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STATE OF MISSOURI
JACK J. PARKER
NUMBER PE-2014040852
PROFESSIONAL ENGINEER
03/24/2025

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:
DRAWN: AP
REVIEWED: WB
JOB NUMBER: 6406.24

SITE DETAILS

C8.2

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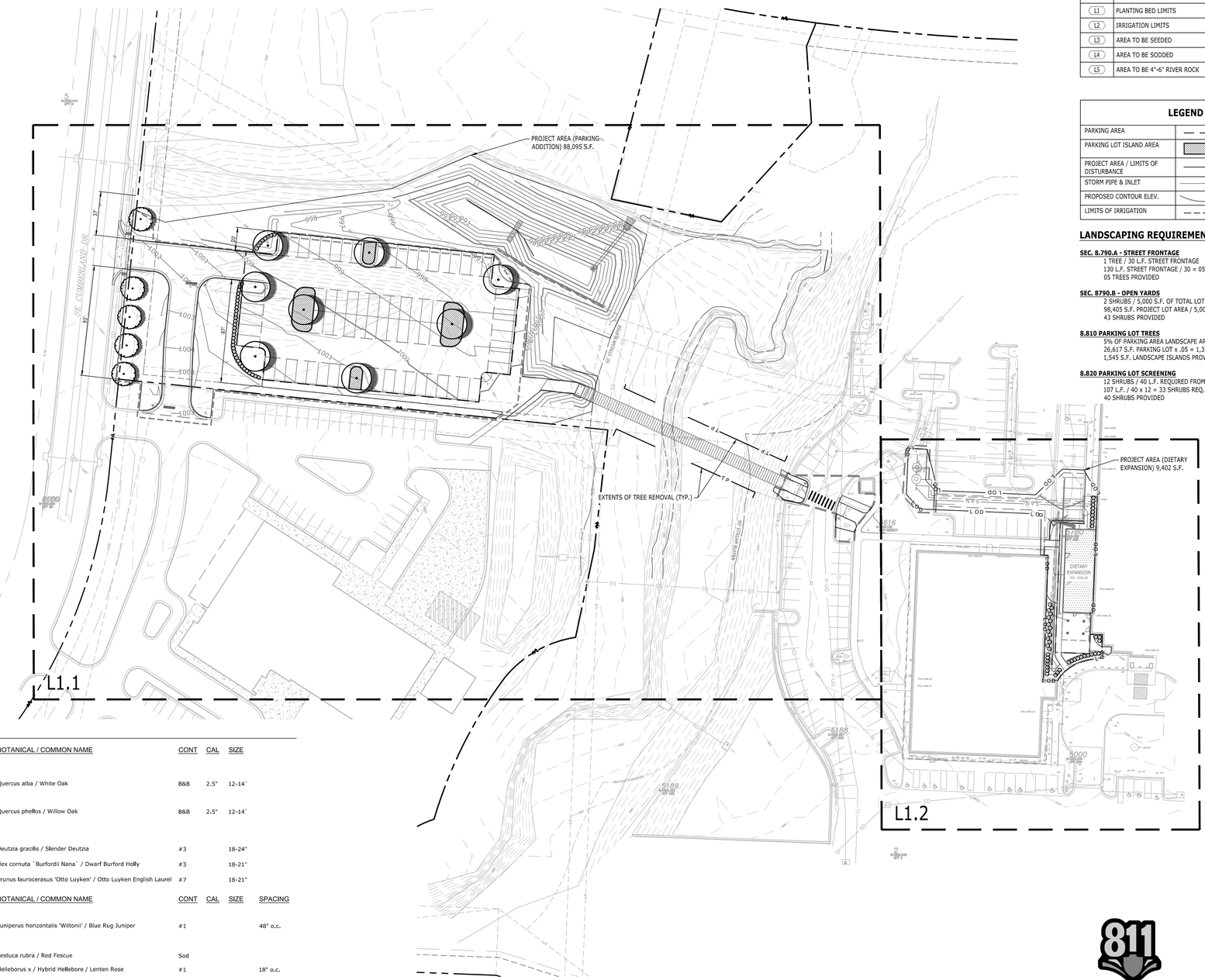

LANDSCAPE KEYNOTES

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	L O D
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

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STATE OF MISSOURI
WILLIAM E. BLISSARD
NUMBER 2007013279
LANDSCAPE ARCHITECT
02/06/2025

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

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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.	DATE	DESCRIPTION
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REVISIONS		
REV #	DESCRIPTION	DATE

DRAWING TITLE
OVERALL LANDSCAPE PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
L1.0

DATE:	2024/12/05
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OVERALL LANDSCAPE PLAN

L1.0

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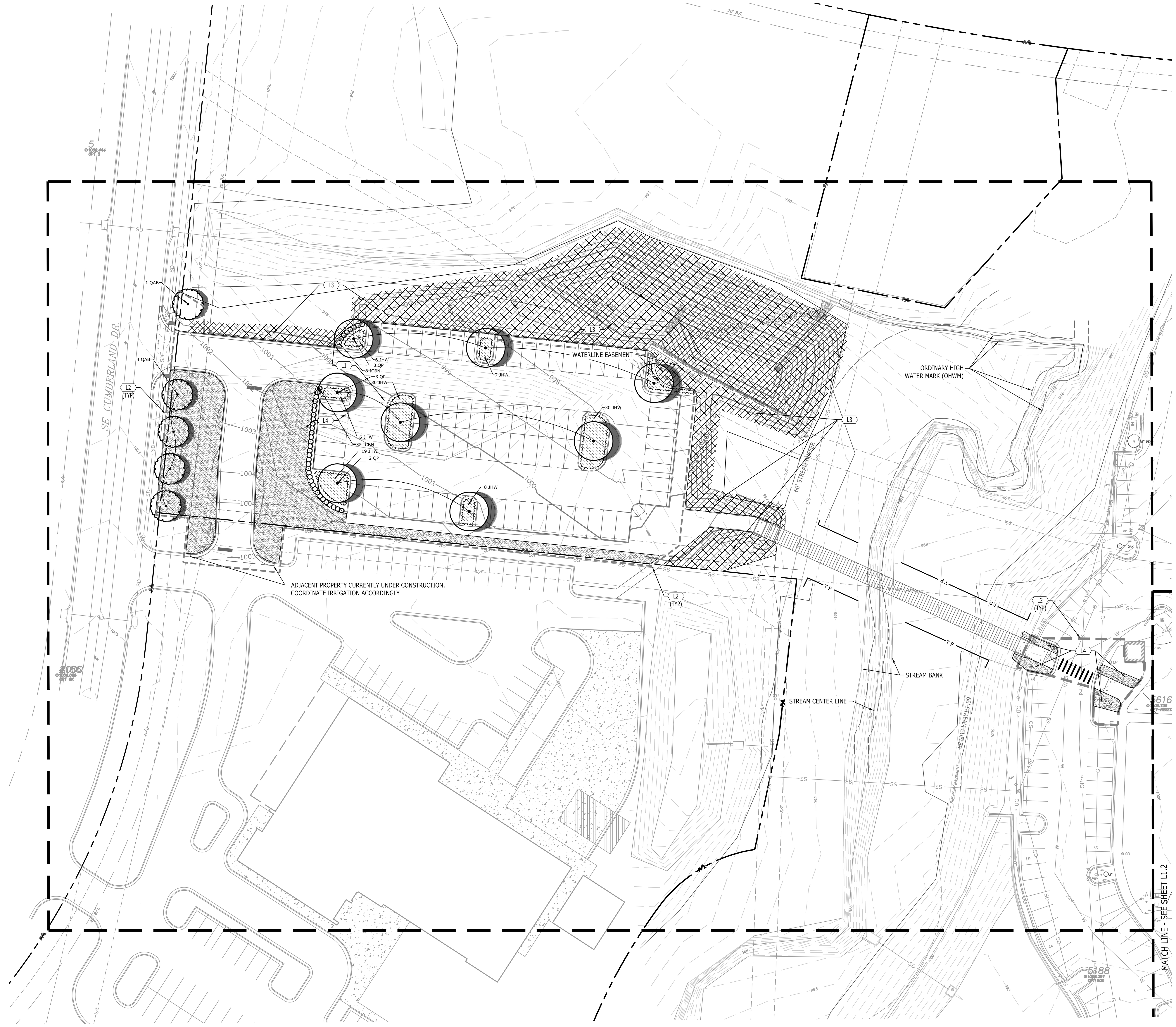

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L5	AREA TO BE 4"-6" RIVER ROCK	

LEGEND

LIMITS OF IRRIGATION	
STORM PIPE & INLET	
PROPOSED CONTOUR ELEV.	90
AREA TO BE SEEDED	

PLANT SCHEDULE

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SHRUBS		
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SEE L1.0 FOR PLANT SIZES AND QUANTITIES

N

0 15 30 60 90
GRAPHIC SCALE

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DETAILED LANDSCAPE PLAN

PROJECT NUMBER
20240037

DRAWING NUMBER
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STATE OF MISSOURI
JEFFREY D. HEINZE
LA-2007013279
LANDSCAPE ARCHITECT
01/24/2025

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:
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AGENCY APPROVALS:
AGENCY

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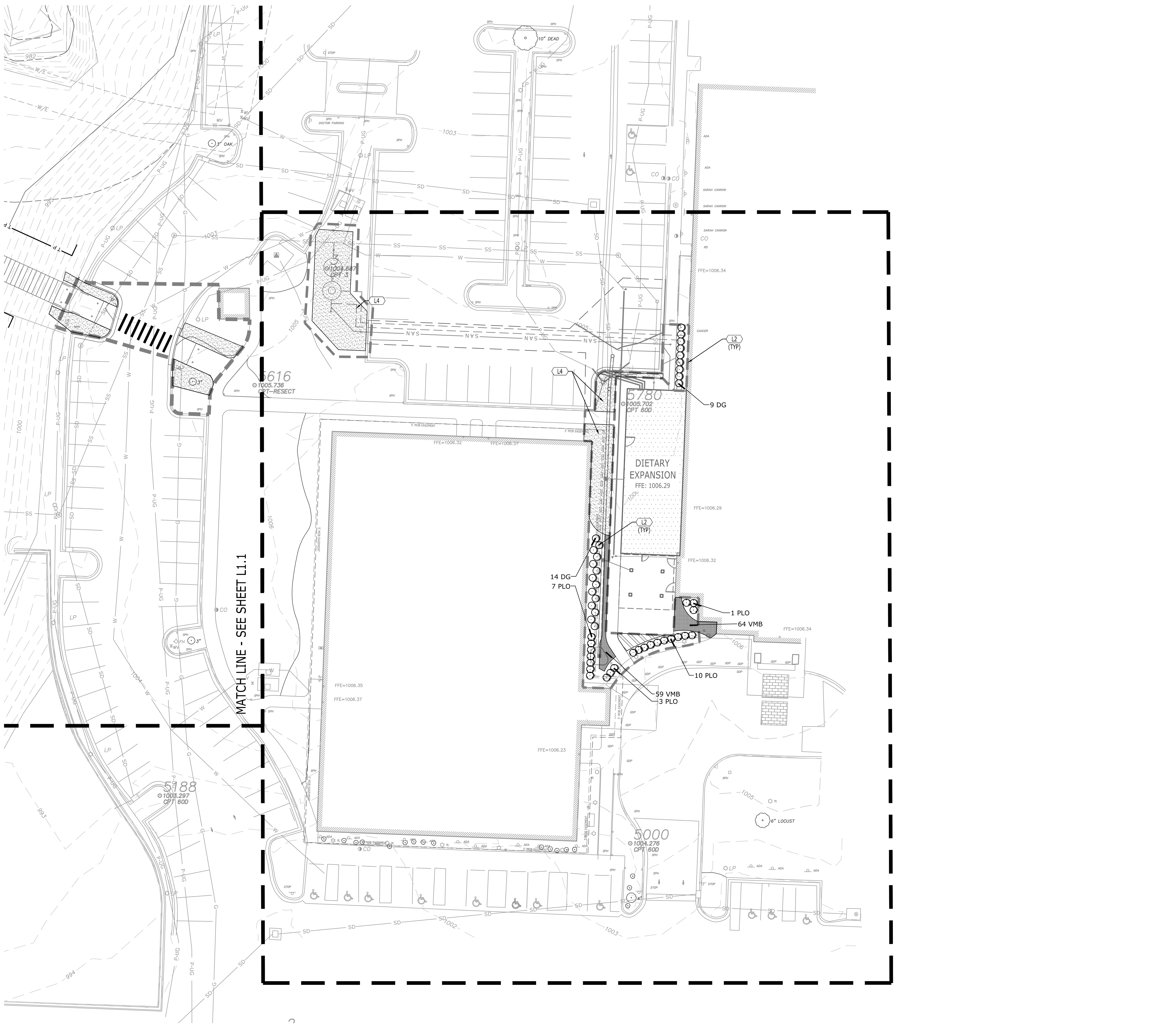

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SEE L1.0 FOR PLANT SIZES AND QUANTITIES

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JACKSON COUNTY

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PROJECT NUMBER 20240037
DRAWING NUMBER
L1.2

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STATE OF MISSOURI
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HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY
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MISSOURI DHSS

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Lee's Summit, Missouri
02/06/2025

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.

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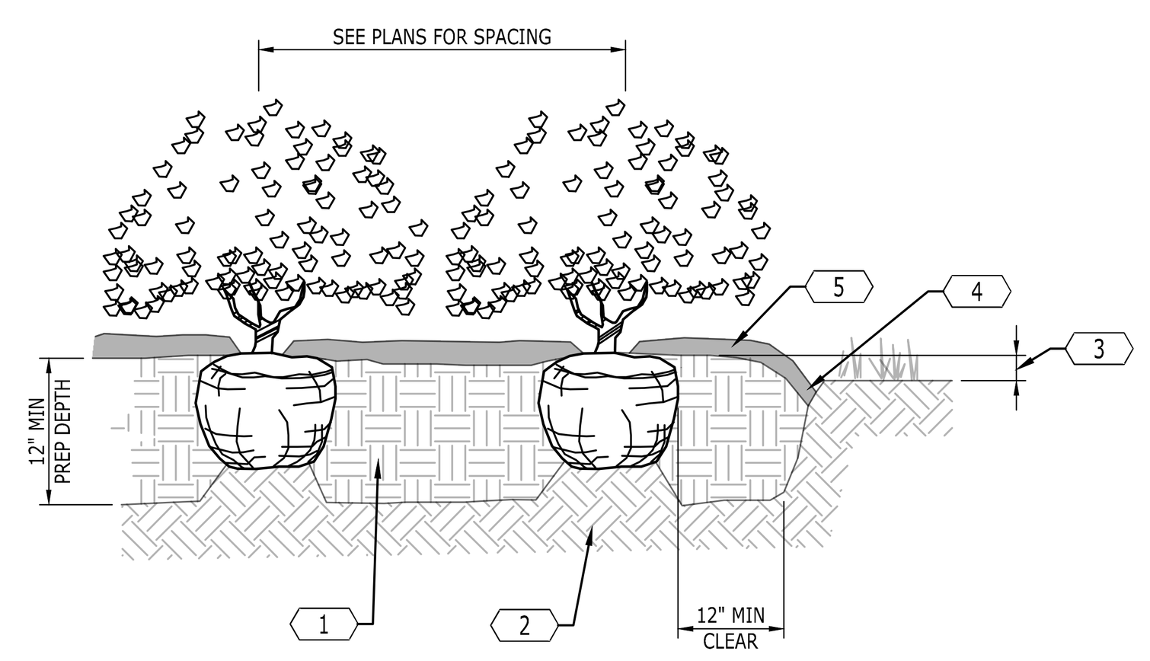
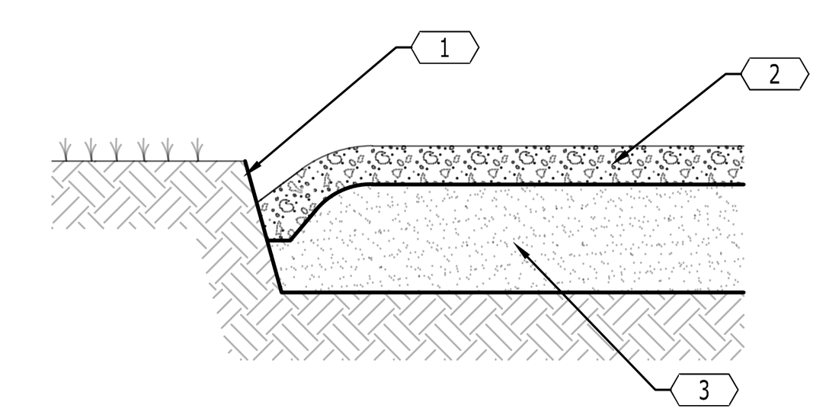
KEYNOTES	
CODE	DESCRIPTION
1	PLANTING MIX AS SPECIFIED
2	UNDISTURBED SUBGRADE. PROVIDE SUBGRADE PEDESTAL FOR EACH SHRUB INSTALLED, TO AVOID SETTLEMENT.
3	TOP OF ROOT BALL TO BE 1"-2" HIGHER THAN THE ADJACENT GRADE
4	"V" TRENCH AROUND PLANTING BED
5	3" HARDWOOD MULCH LAYER. CLEAR MULCH FROM WOODY SHRUB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



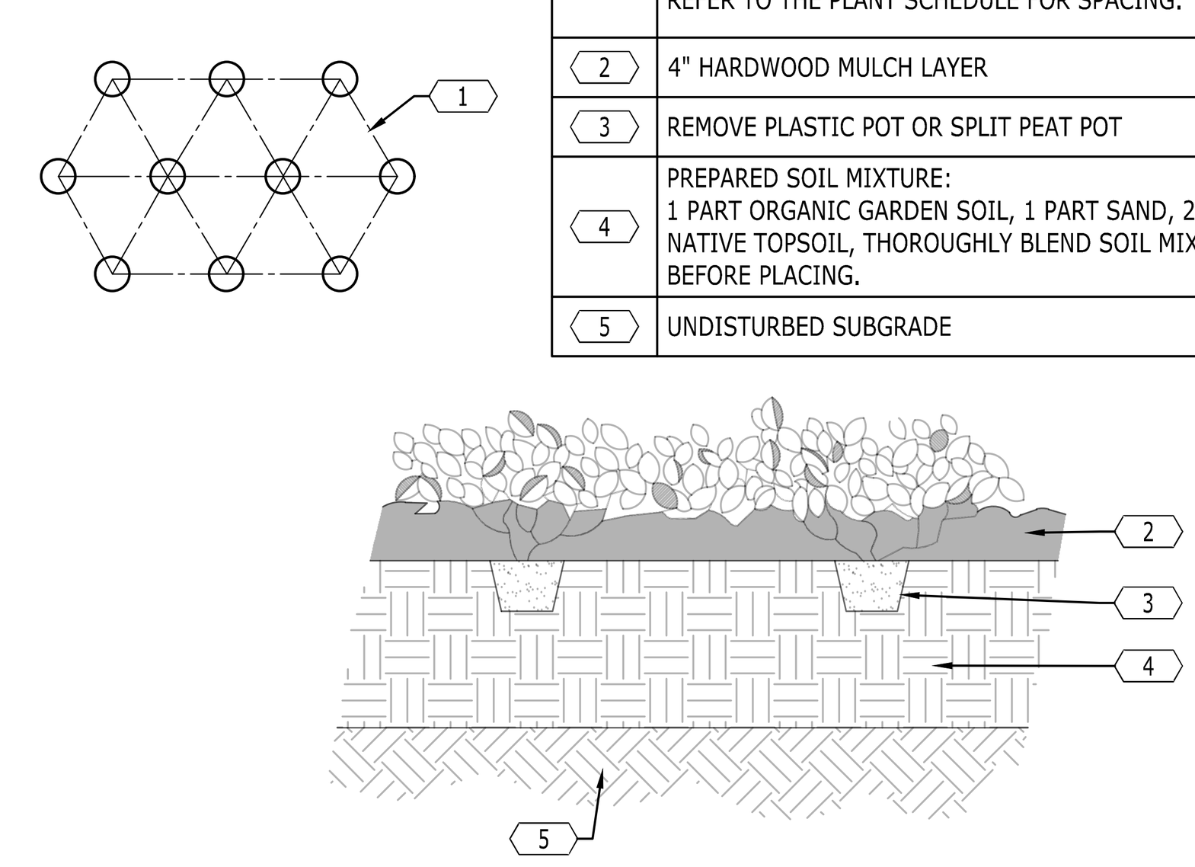
3 **SHRUB PLANTING**
NOT TO SCALE

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

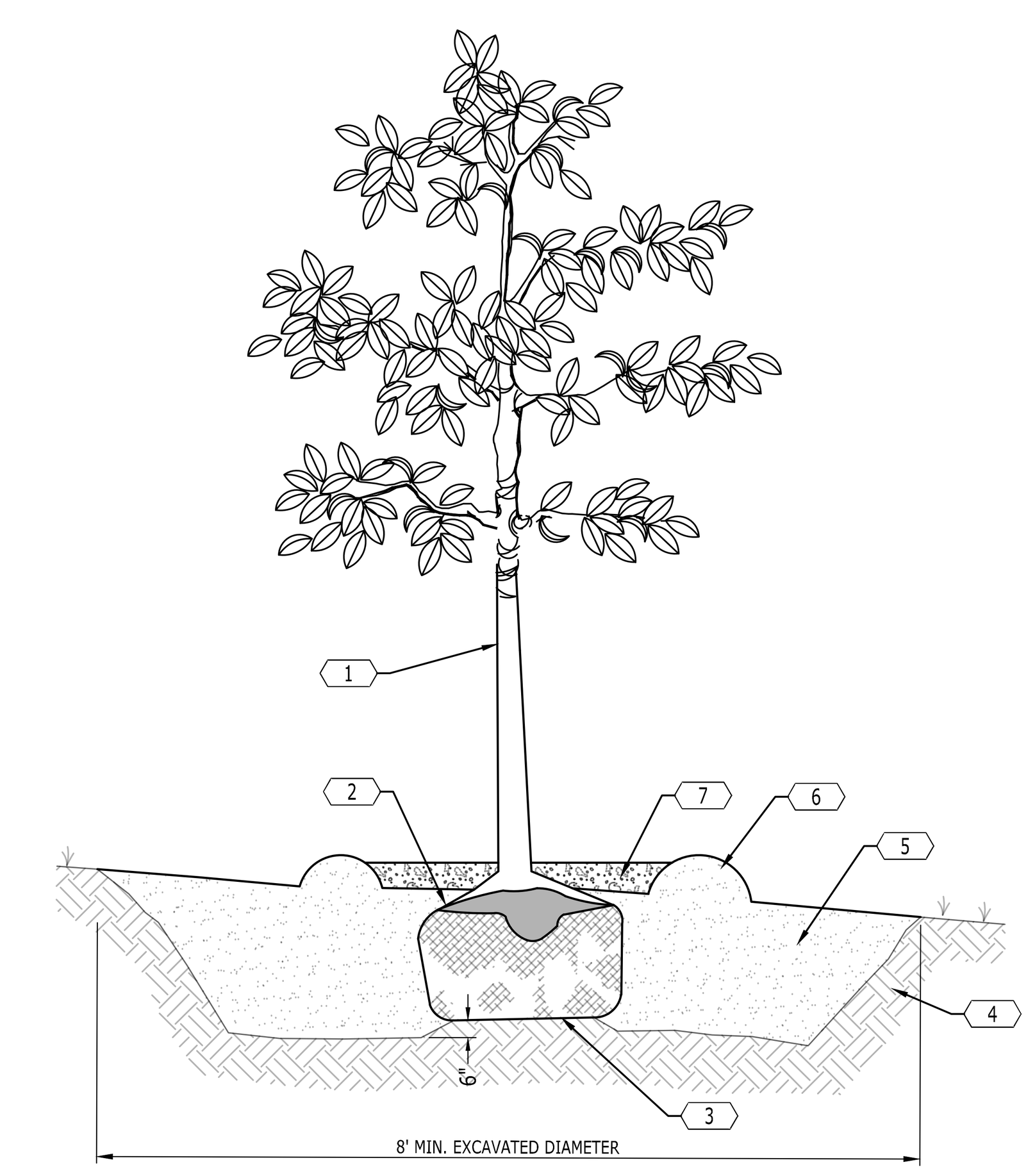
KEYNOTES	
CODE	DESCRIPTION
1	CLEAR TRUNK TO HEIGHT SPECIFIED
2	FOLD DOWN OR CUT AND REMOVE THE TOP THIRD OF THE BURLAP. REMOVE NON-BIODEGRADABLE WRAP COMPLETELY. REMOVE WIRE BASKET.
3	PLACE ROOT BALL ON UNDISTURBED SOIL
4	UNDISTURBED SUBGRADE
5	BACKFILL EXCAVATION WITH TOP 8" REMOVED DURING PIT EXCAVATION
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

5

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
LANDSCAPE DETAILS

PROJECT NUMBER
20240037
DRAWING NUMBER
L2.0

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

STATE OF MISSOURI
JEFFREY D. HEINZE
LA-2007013279
LANDSCAPE ARCHITECT
01/24/2025

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

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

LANDSCAPE DETAILS

L2.0

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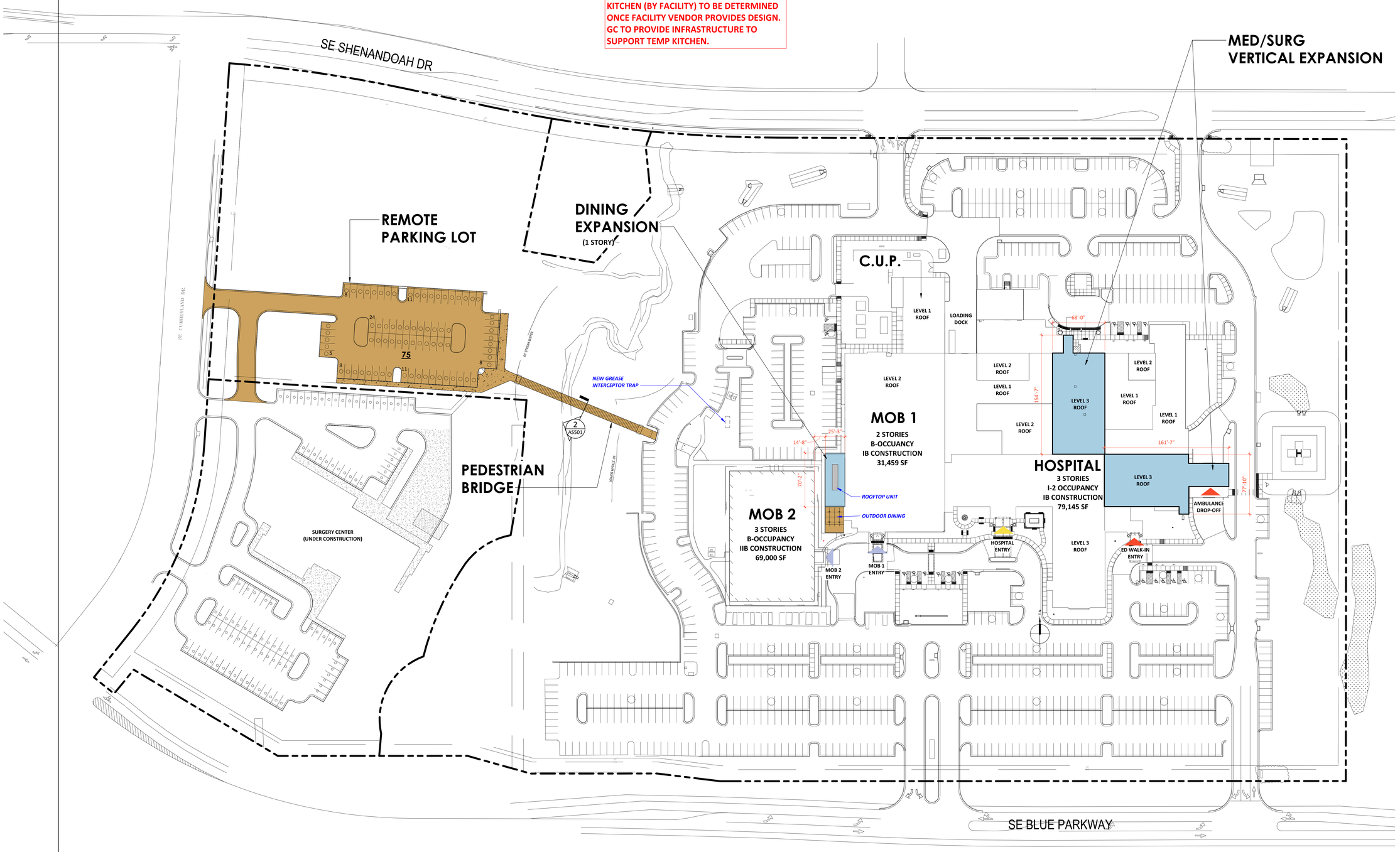
Lee's Summit, Missouri

02/06/2025

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

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Consultant:

STATE OF MISSOURI
DUDLEY C. CAMPBELL
NUMBER A-2021002549

DATE SIGNED: 12.05.24

MED SURG & DIETARY EXPANSION

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

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ARCHITECTURAL SITE PLAN

AS001

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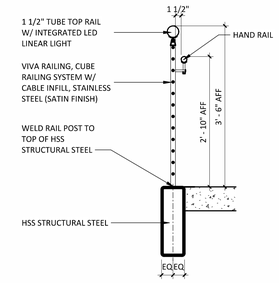
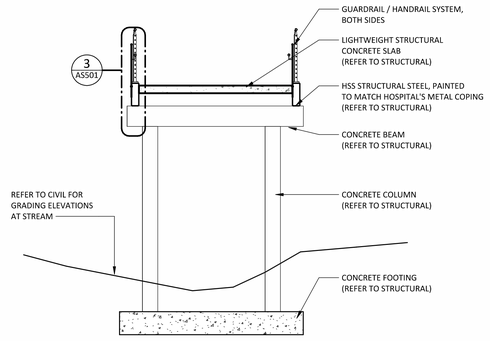
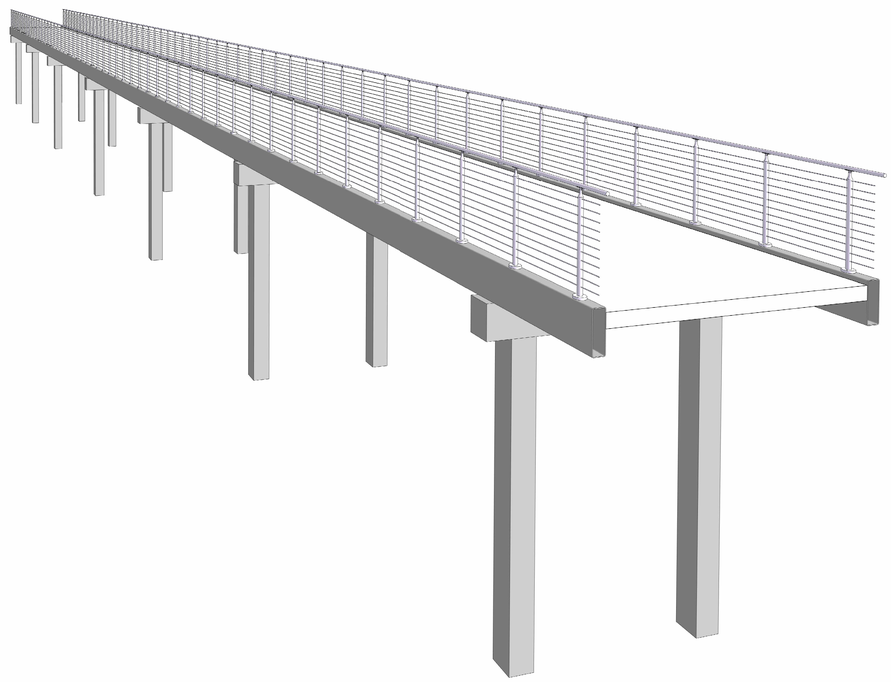


3 GUARDRAIL/HANDRAIL SECTION AT BRIDGE
3/4" = 1'-0"



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



1 PEDESTRIAN BRIDGE

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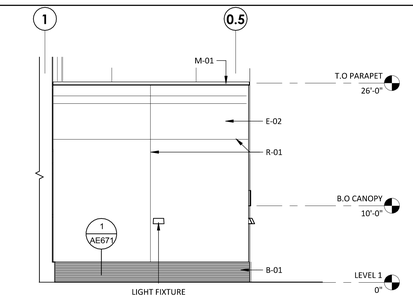
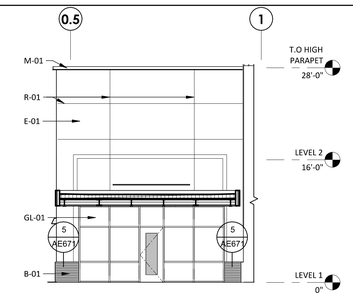
SITE DETAILS

AS501



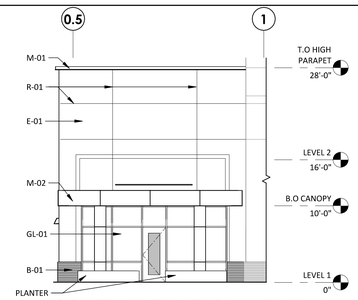
NORTH ELEVATION - LEVEL 1 - DIETARY.

1 1/8" = 1'-0"



SOUTH ELEVATION- LEVEL 1 - DIETARY.

2 1/8" = 1'-0"



SOUTH ELEVATION- LEVEL 1 - DIETARY CANOPY.

3 1/8" = 1'-0"

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Lee's Summit, Missouri

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MATERIAL LEGEND

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

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

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

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

B-01
PRODUCT: THIN BRICK VENEER
MFR: TBD
FINISH: MATCH EXISTING

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PRODUCT: PREFINISHED METAL COPING
MFR: TBD
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PRODUCT: METAL CANOPY
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R-01
PRODUCT: EIFS REVEAL
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PJ-01
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PRODUCT: VISION CONTROL UNIT
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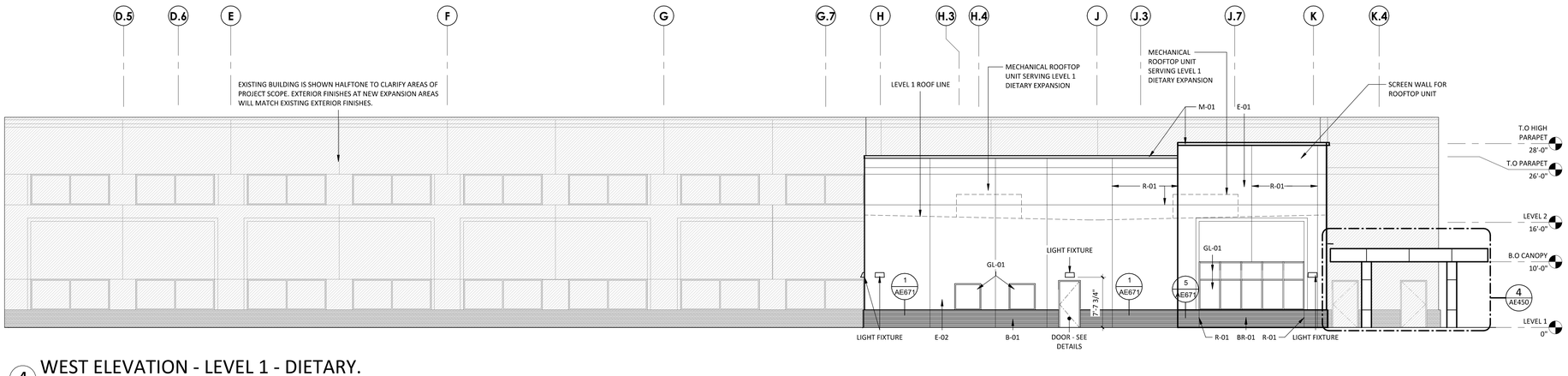


WEST ELEVATION - LEVEL 1 - DIETARY.

4 1/8" = 1'-0"

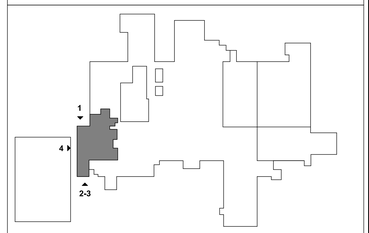
DIETARY EXPANSION - WEST VIEW

6

OUTDOOR DINING VIEW

5

KEYPLAN



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Consultant:

STATE OF MISSOURI
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DATE SIGNED: 12.05.24

MED SURG & DIETARY EXPANSION

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

AUTHORITY HAVING JURISDICTION:
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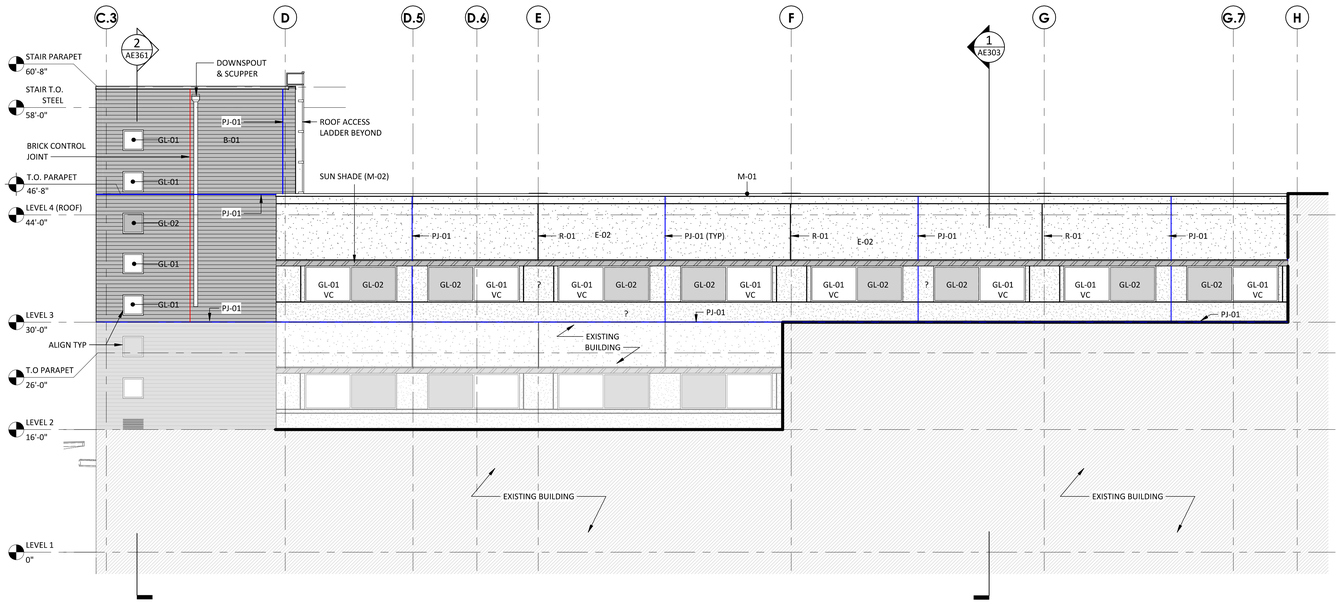
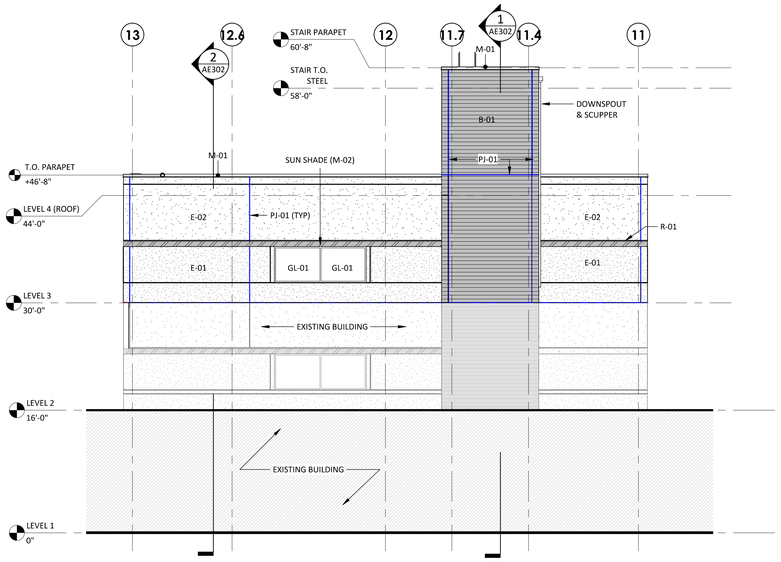
EXTERIOR BUILDING ELEVATIONS - DIETARY

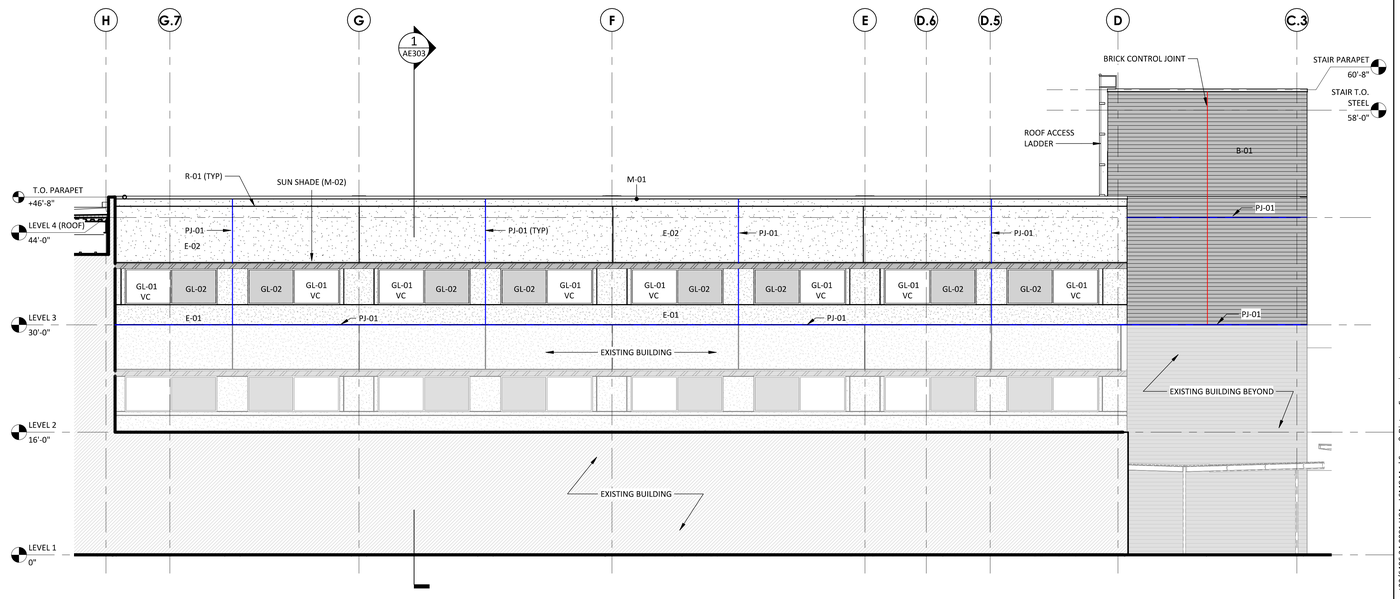
AE201



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



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



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

MATERIAL LEGEND

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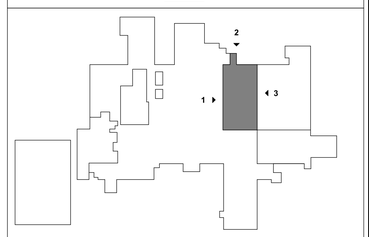
KEYPLAN



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EXTERIOR BUILDING ELEVATIONS - MED/SURG

AE202

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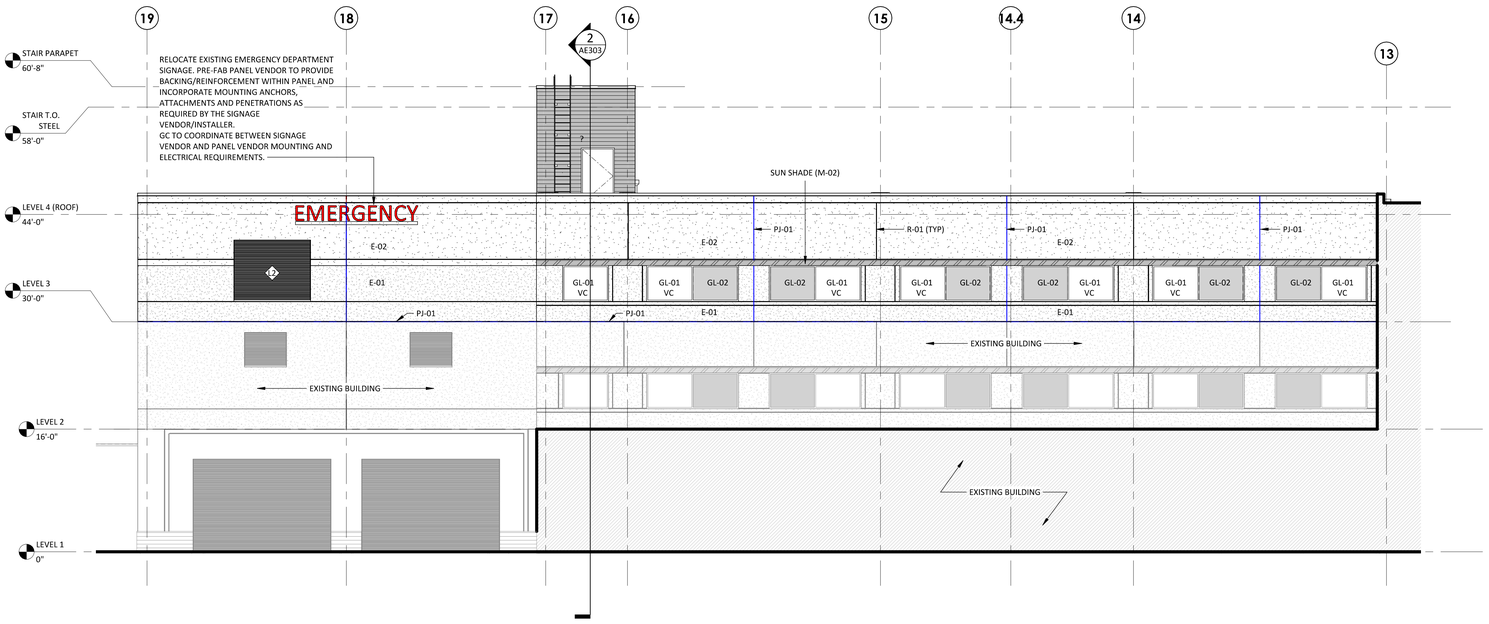
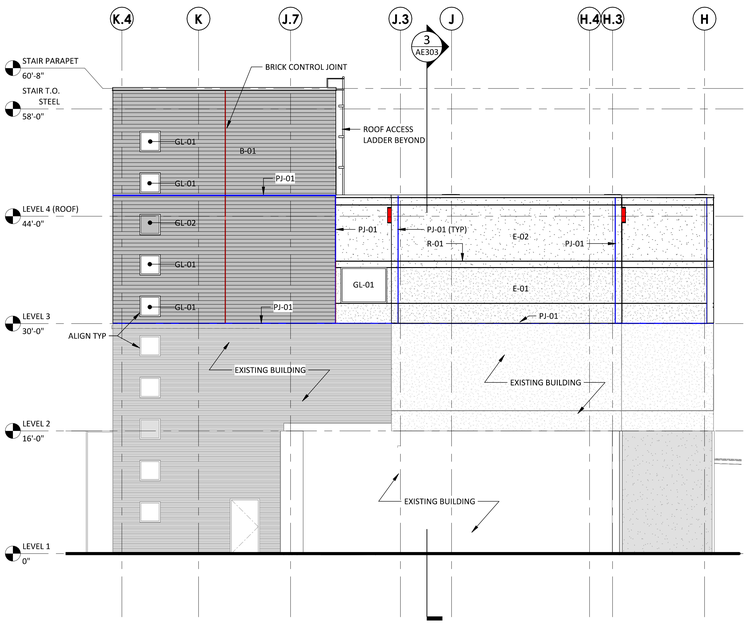


1 NORTH ELEVATION - MED SURG (12-BED UNIT)
1/8" = 1'-0"



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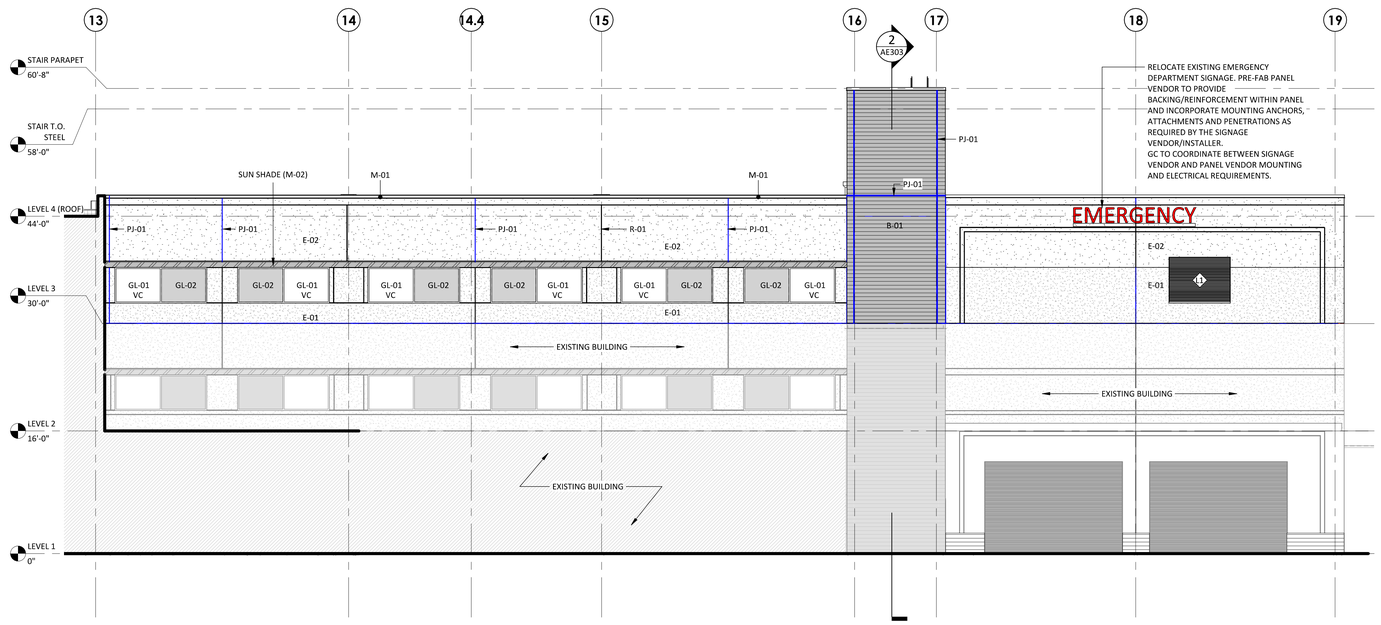

3 SOUTH ELEVATION - MED SURG (12-BED UNIT)
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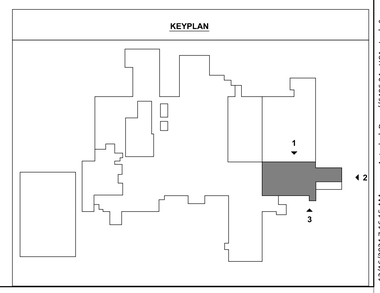

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Consultant:

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MED SURG & DIETARY EXPANSION

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

AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

FACILITY NUMBER:
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AGENCY APPROVALS:
AGENCY

REVISIONS		
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EXTERIOR BUILDING ELEVATIONS - MED/SURG

AE203

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

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

02/06/2025

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 UPWARDLY 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 CONNECTIONS IN ACCORDANCE WITH CONNECTION TABLES IN PART 10 OF THE "STEEL CONSTRUCTION MANUAL". THE CDSE SHALL SUBMIT SIGNED AND SEALED CALCULATIONS FOR ALL SHEAR CONNECTIONS THAT CANNOT BE DETAILED COMPLETELY FROM THE ABOVE MANUAL FOR REVIEW BY THE STRUCTURAL ENGINEER.

        4.3.2. CONNECTIONS SHALL BE DETAILED TO CARRY A MINIMUM AXIAL LOAD OF 0.05 × THE REQUIRED SHEAR DESIGN LOAD FOR THE CONNECTION

    4.4. FOR WELDED CONNECTIONS, USE PREQUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY. "NON-PREQUALIFIED JOINTS" SHALL BE QUALIFIED PRIOR TO FABRICATION.

    4.5. THE REQUIRED REACTION USING LRFD LOAD COMBINATIONS SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS. IF REACTIONS ARE NOT SHOWN, CONTACT THE STRUCTURAL ENGINEER.

    4.6. STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE CDSE WITH THE EXCEPTION OF SIMPLE SHEAR CONNECTIONS AS DESCRIBED IN SECTION 4.3. THE CDSE SHALL SUBMIT SIGNED AND SEALED CALCULATIONS FOR ALL SUCH CONNECTIONS. THE CDSE SHALL USE THE UNIFORM FORCE METHOD WHEN APPLICABLE FOR ALL BRACE AND TRUSS TYPE CONNECTION DESIGNS.

    4.7. REVIEW OF THE SHOP DRAWINGS AND/OR CONNECTION CALCULATIONS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR AND CDSE OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS.

5. COMPOSITE FLOOR MEMBERS ARE DESIGNED TO BE UNSHORED UNLESS OTHERWISE NOTED. THE WEIGHT OF THE WET CONCRETE WILL RESULT IN DEFLECTIONS OF THE SUPPORTING STEEL DECK, BEAMS, AND GIRDERS. ALL OVERRUNS OF CONCRETE QUANTITIES ARE TO BE ANTICIPATED AND INCLUDED IN THE CONTRACTOR'S BID. THE CONTRACTOR SHALL COORDINATE EMBEDDED ITEMS REQUIRED FOR ARCHITECTURAL, STRUCTURAL, AND MECHANICAL ELEMENTS. CONCRETE FLOORS UTILIZING UNSHORED CONSTRUCTION SHALL BE SCREEDED LEVEL.

6. SIZE AND SPACING OF CONDUITS IN COMPOSITE SLABS SHALL COMPLY WITH THE REQUIREMENTS OF ASCE 3-91, UNLESS NOTED OTHERWISE ON DRAWINGS.

7. THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD PER THE SPECIFICATIONS.

8. THE STRUCTURAL STEEL MEMBERS HAVE NOT BEEN DESIGNED TO ACCOMMODATE THE TORSION RESULTING FROM THE ECCENTRIC LOADING OF THE PRECAST PANELS, CURTAINWALL SYSTEMS, LIGHT GAUGE METAL FRAMING, ETC. SUPPLEMENTAL SECONDARY BRACING SHALL BE DESIGNED AND PROVIDED BY THE SUPPLIER TO ELIMINATE TORSION.

9. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) AND ITS REQUIRED CATEGORIES ARE INDICATED IN EITHER THE ARCHITECTURAL OR STRUCTURAL DRAWINGS. AESS SHALL CONFORM TO THE REQUIREMENTS IN SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR THE SPECIFIED CATEGORY. WHERE THE CATEGORY IS NOT SPECIFIED, OR THERE IS A CONFLICT, CONSULT THE ARCHITECT.

10. ALL STEEL EXPOSED TO WEATHER OR MOISTURE SHALL BE GALVANIZED UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.

11. STEEL BAR GRATING SHALL CONFORM TO THE FOLLOWING UNLESS NOTED OTHERWISE:

    11.1. STEEL BAR GRATING SHALL BE 1-1/4" x3 /16" 19-W-4 STEEL BAR GRATING. STEEL BAR MATERIAL SHALL CONFORM TO ASTM A1011 CS TYPE B.

    11.2. GRATING SURFACE SHALL BE SERRATED.

    11.3. GRATING FINISH TO BE GALVANIZED IN ACCORDANCE WITH ASTM A123 OR A385.

    11.4. FASTEN GRATING TO STEEL SUPPORTS WITH EITHER 3/16" FILLET WELDS X 3/4" LONG AT EVERY SIXTH BEARING BAR ALONG SUPPORT (MIN. OF 2 WELDS PER PANEL), OR SADDLE CLIP AND SELF-DRILLING FASTENER AT EVERY SIXTH BEARING BAR ALONG SUPPORT (MIN. OF 2 CLIPS PER PANEL).

12. THE LATERAL LOAD-RESISTING SYSTEM INCLUDES STRUCTURAL STEEL, NON-STRUCTURAL STEEL ELEMENTS, AND THE DIAPHRAGM, AS INDICATED BELOW. ALL ELEMENTS OF THE LATERAL LOAD-RESISTING SYSTEM AND DIAPHRAGM ARE REQUIRED TO BE COMPLETE AS INDICATED AND DETAILED IN THE STRUCTURAL CONTRACT DOCUMENTS TO PROVIDE THE LATERAL STRENGTH AND STABILITY OF THE STEEL STRUCTURE. THE STRUCTURE SHALL BE CONSIDERED UNSTABLE UNTIL THESE SYSTEMS AND ELEMENTS ARE COMPLETE.

    12.1. THE LATERAL LOAD-RESISTING SYSTEM FOR THE STEEL STRUCTURE INCLUDES THE FOLLOWING ELEMENTS AS INDICATED AND DETAILED IN THE STRUCTURAL CONTRACT DOCUMENTS:

        MOMENT FRAMES
        CONNECTIONS, BASEPLATES, ANCHOR RODS (BOLTS), AND GROUT

    12.2. THE LATERAL LOAD-RESISTING DIAPHRAGM FOR THE STEEL STRUCTURE INCLUDES THE FOLLOWING ELEMENTS AS INDICATED AND DETAILED IN THE STRUCTURAL CONTRACT DOCUMENTS:

        STEEL FLOOR DECK WITH CONCRETE AT 28-DAY STRENGTH
        STEEL ROOF DECK
        DIAPHRAGM BRACING

    12.3. SPECIFIC ELEMENTS AS IDENTIFIED WITHIN THE PLANS AND DETAILS OF THE STRUCTURAL CONTRACT DRAWINGS SHALL ALSO BE CONSIDERED PART OF THE LATERAL LOAD-RESISTING SYSTEM.

13. STABILITY BRACING: THE STABILITY OF STRUCTURAL STEEL ELEMENTS INCLUDING INDIVIDUAL HOT-ROLLED STEEL SHAPES AND FABRICATED TRUSSES IS PROVIDED BY THE FOLLOWING ELEMENTS AS INDICATED AND DETAILED IN THE STRUCTURAL CONTRACT DOCUMENTS. THESE ELEMENTS SHALL BE COMPLETE AS SHOWN IN THE STRUCTURAL CONTRACT DOCUMENTS BEFORE ANY TEMPORARY MEANS AND METHODS REQUIRED FOR ERECTION ARE REMOVED.

    STEEL FLOOR DECK WITH CONCRETE AT 28-DAY STRENGTH
    STEEL ROOF DECK
    DIAPHRAGM BRACING
    STRUCTURAL STEEL BRACING AND KICKERS

14. THE WALL THICKNESS OF ROLLED HSS MEMBERS SHOWN ON THE PLANS IS THE MINIMUM THICKNESS REQUIRED FOR STRUCTURAL PURPOSES. THE CONTRACTOR SHALL INCREASE THE WALL THICKNESS OR EMPLOY OTHER CONSTRUCTION MEANS AS REQUIRED TO PREVENT DISTORTION, WARPING, OR OIL-CANNING OF THE HSS CROSS SECTION.

I. STEEL DECK

1. STEEL DECK SHALL BE PLACED OVER MULTIPLE SPANS WHEREVER POSSIBLE. WHERE SINGLE SPAN DECK IS REQUIRED, THE CONTRACTOR SHALL DRAW SPECIFIC ATTENTION TO THOSE LOCATIONS ON THE SHOP DRAWINGS.

2. SUBMIT SHOP DRAWINGS SHOWING THE STEEL DECK PROFILE, GAGE, PHYSICAL PROPERTIES, AND LAYOUT. THE SUBMITTAL SHALL INCLUDE ALL ACCESSORIES AND INSTALLATION DETAILS. IF DECK OTHER THAN THE BASIS OF DESIGN IS PROVIDED, THE SUBMITTAL SHALL INCLUDE LOAD TABLES DEMONSTRATING THE DECK MEETS OR EXCEEDS THE BASIS OF DESIGN. THE LOAD TABLES SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI) REQUIREMENTS

3. ROOF DECK:

    3.1. THE 1 1/2" TYPE B ROOF DECK BASIS OF DESIGN IS 1.5B ROOF DECK PRODUCED BY VULCRAFT (IAPMO UES ER-0652). OTHER DECK MANUFACTURERS ARE PERMITTED PROVIDED THE FOLLOWING MINIMUM DECK PROPERTIES ARE MET OR EXCEEDED:

GAGE	22
YIELD STRESS	50 KSI
MOMENT OF INERTIA (POSITIVE BENDING), I(+)	0.155 IN^4/FT
MOMENT OF INERTIA (NEGATIVE BENDING), I(-)	0.178 IN^4/FT
SECTION MODULUS (POSITIVE MOMENT), S(+)	0.169 IN^3/FT
SECTION MODULUS (NEGATIVE MOMENT), S(-)	0.179 IN^3/FT

    ROOF DECK SHALL BE APPROVED BY FM GLOBAL FOR THE SPAN LENGTHS SHOWN ON THE CONTRACT DOCUMENTS AND THE LAYOUT BY THE SUPPLIER.

    3.2. THE TORIS ROOF DECK BASIS OF DESIGN IS TORIS ROOF DECK PRODUCED BY EPIC METALS (IAPMO UES ER-0266). OTHER DECK MANUFACTURERS ARE PERMITTED PROVIDED THE FOLLOWING MINIMUM DECK PROPERTIES ARE MET OR EXCEEDED:

GAGE	20
YIELD STRESS	40 KSI
MOMENT OF INERTIA, I	0.77 IN^4/FT
SECTION MODULUS (POSITIVE MOMENT), S(+)	0.48 IN^3/FT
SECTION MODULUS (NEGATIVE MOMENT), S(-)	0.44 IN^3/FT

    ROOF DECK SHALL BE APPROVED BY FM GLOBAL FOR THE SPAN LENGTHS SHOWN ON THE CONTRACT DOCUMENTS AND THE LAYOUT BY THE SUPPLIER.

    3.3. DECK FINISH SHALL BE GALVANIZED G60.

    3.4. PROVIDE VENTED DECK IF RECOMMENDED BY LIGHTWEIGHT INSULATING CONCRETE SUPPLIER. PERCENT VENTING SHALL BE DETERMINED BY THE ROOFING SUPPLIER BASED ON PROJECT CONDITIONS AND INSULATING CONCRETE SYSTEM USED.

4. COMPOSITE FLOOR DECK:

    4.1. THE 3" COMPOSITE FLOOR DECK BASIS OF DESIGN IS 3VLI DECK PRODUCED BY VULCRAFT (IAMPO UES ER-0652). OTHER DECK MANUFACTURERS ARE PERMITTED PROVIDED THE FOLLOWING MINIMUM DECK PROPERTIES ARE MET OR EXCEEDED:

GAGE	20
YIELD STRESS	50 KSI
MOMENT OF INERTIA (POSITIVE BENDING), I(+)	0.919 IN^4/FT
MOMENT OF INERTIA (NEGATIVE BENDING), I(-)	0.921 IN^4/FT
SECTION MODULUS (POSITIVE MOMENT), S(+)	0.512 IN^3/FT
SECTION MODULUS (NEGATIVE MOMENT), S(-)	0.539 IN^3/FT

    4.2. DECK FINISH SHALL BE GALVANIZED G60.

    4.3. COMPOSITE FLOOR DECK IS DESIGNED TO BE UNSHORED UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR SHORING DECK OR INCREASING DECK GAGE WHERE THE DECK CLEAR SPAN EXCEEDS THE SDI MAXIMUM UNSHORED CLEAR SPAN CONSIDERING THE LAYOUT OF THE DECK. ANY SUCH AREA OF SHORING OR INCREASED DECK GAGE SHALL BE NOTED ON THE SHOP DRAWINGS AND APPROVED BY THE STRUCTURAL ENGINEER.

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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Project No. 24051.00

MICHAEL E. CORKIN
NUMBER PE-2011027844
12.5.24

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:	1/2" = 1'-0"
DRAWN:	JL
REVIEWED:	JDP
JOB NUMBER:	6406.24

STRUCTURAL NOTES

S011

12/4/2024 2:14:29 PM Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/2405100-Lee's_Summit_MC_Med-Surg_Bed_Expasion_SDL23.rvt

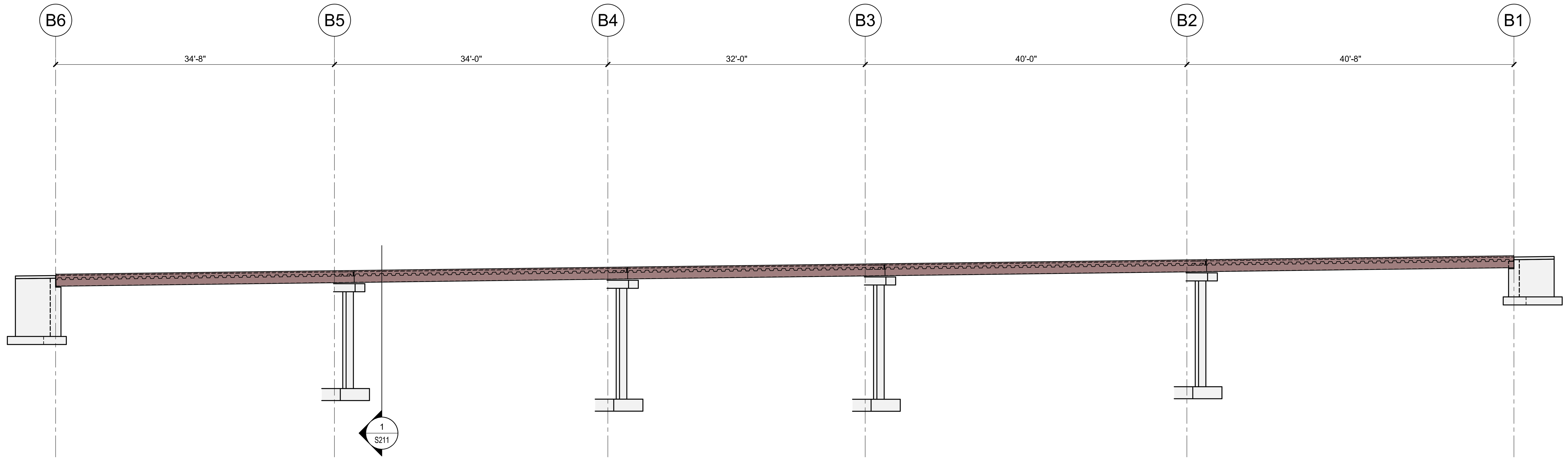
NOTES:

1. REFERENCE ELEVATION 1006.29' = 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.

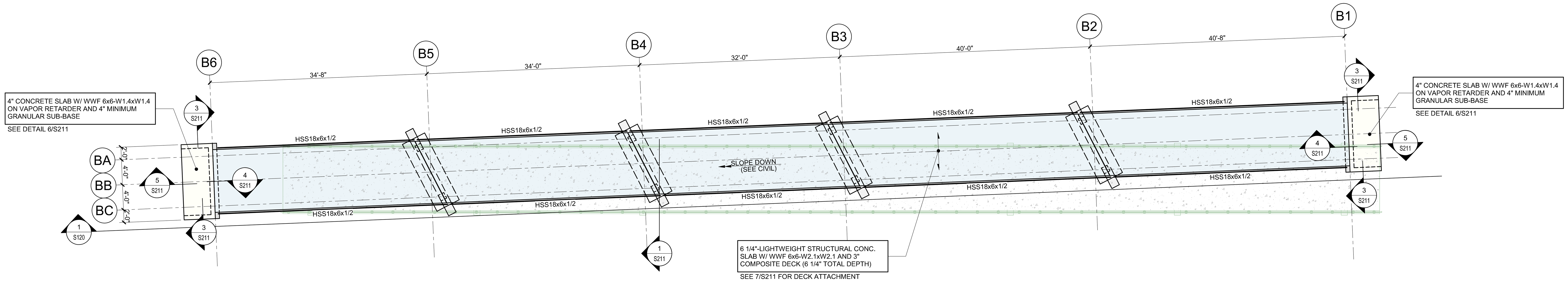
RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

02/06/2025

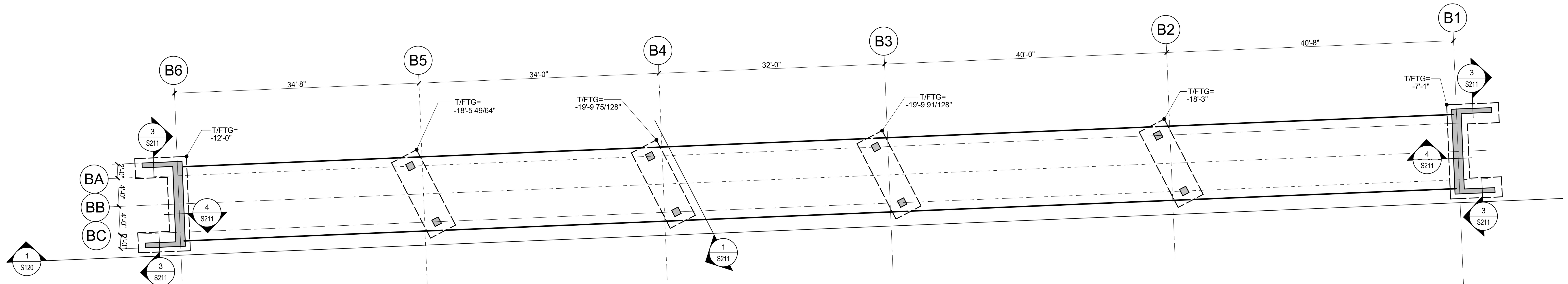


1 BRIDGE ELEVATION



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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Project No. 24051.00

STATE OF MISSOURI
MICHAEL E. CORRIN
NUMBER PE-2011027844
PROFESSIONAL ENGINEER
12.5.24

MED SURG & DIETARY EXPANSION

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

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

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JOB NUMBER: 6406.24

PEDESTRIAN BRIDGE FOUNDATION AND FRAMING PLANS

S120

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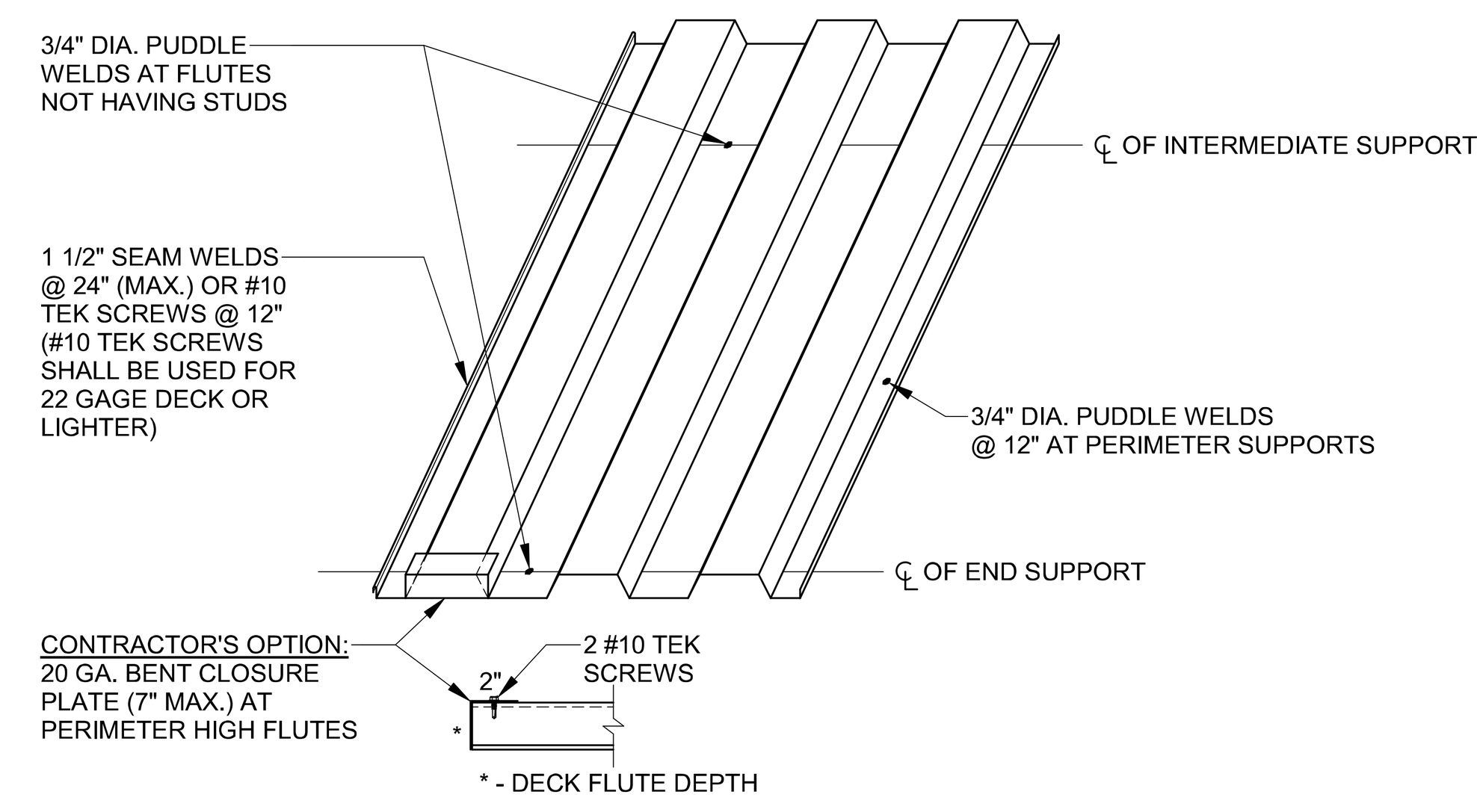
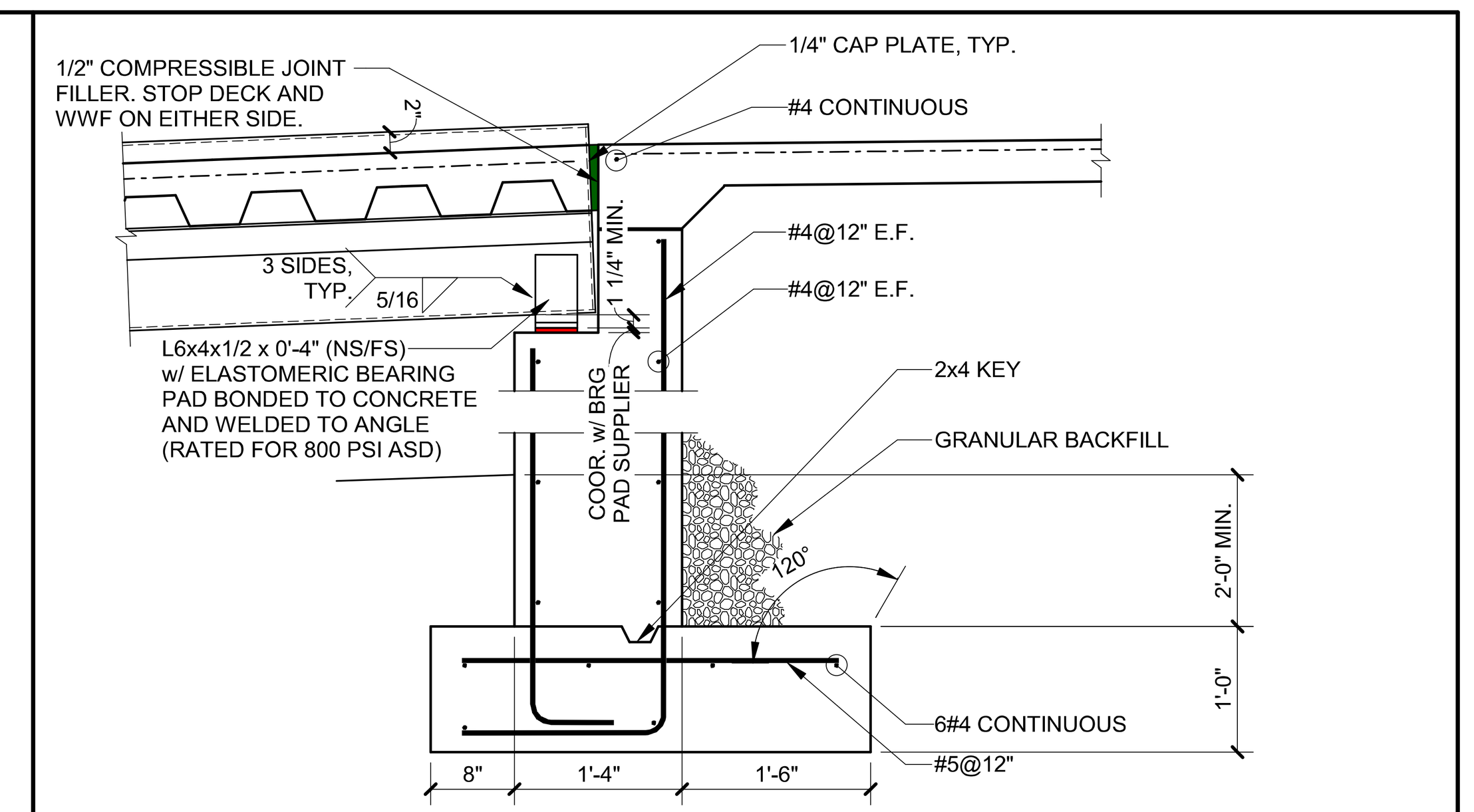
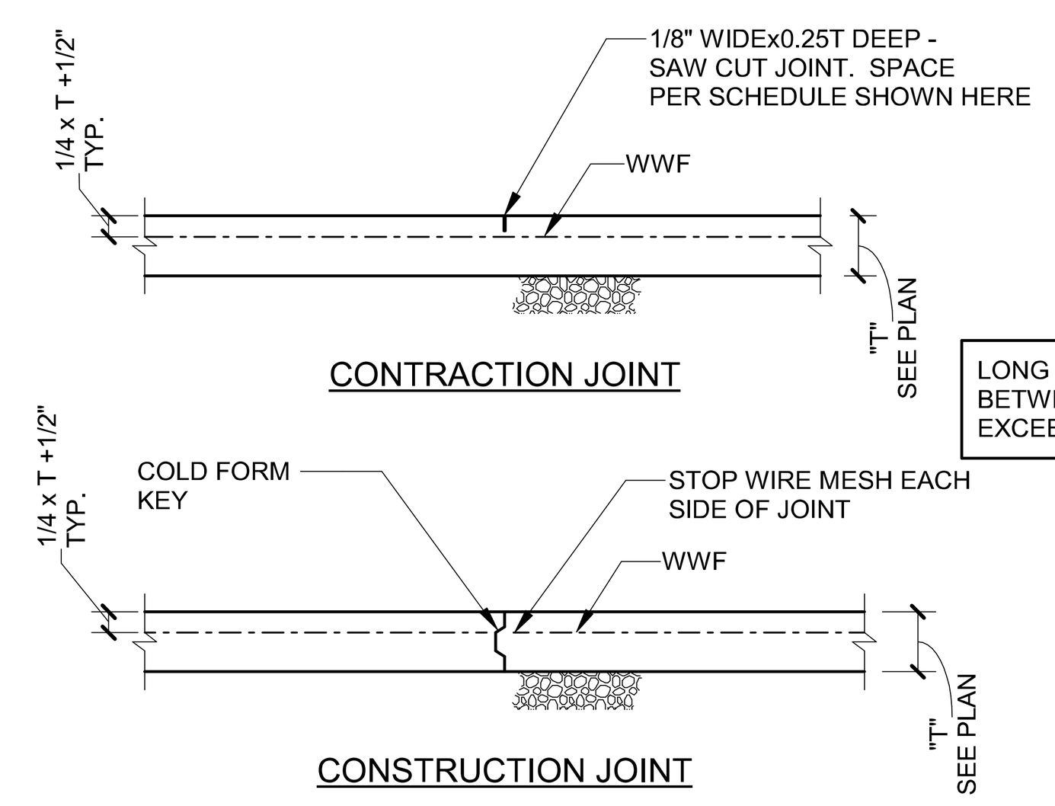


7 TYPICAL COMPOSITE DECK ATTACHMENT



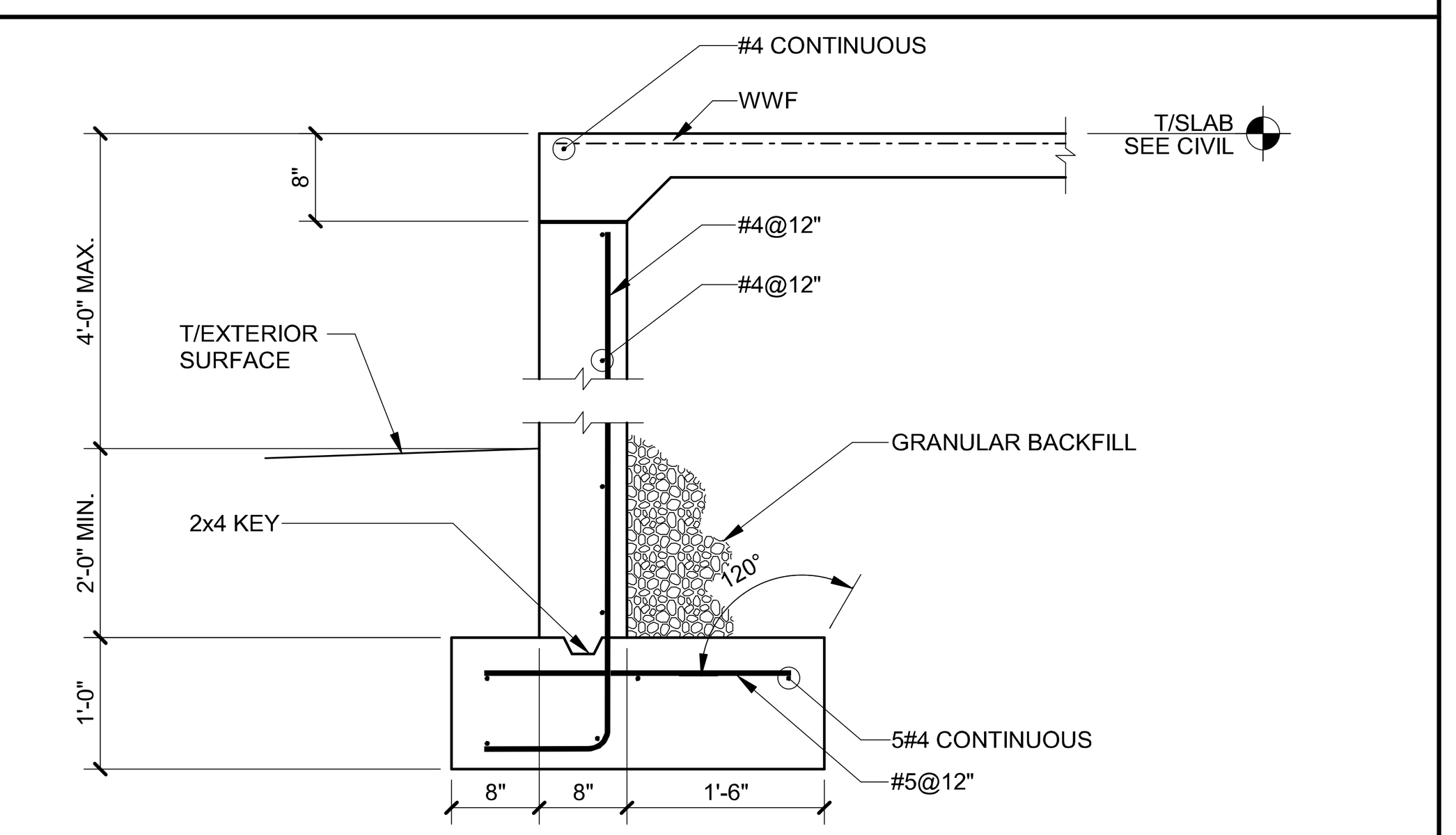
4 TYPICAL SECTION AT STEEL BEAM / RET. WALL



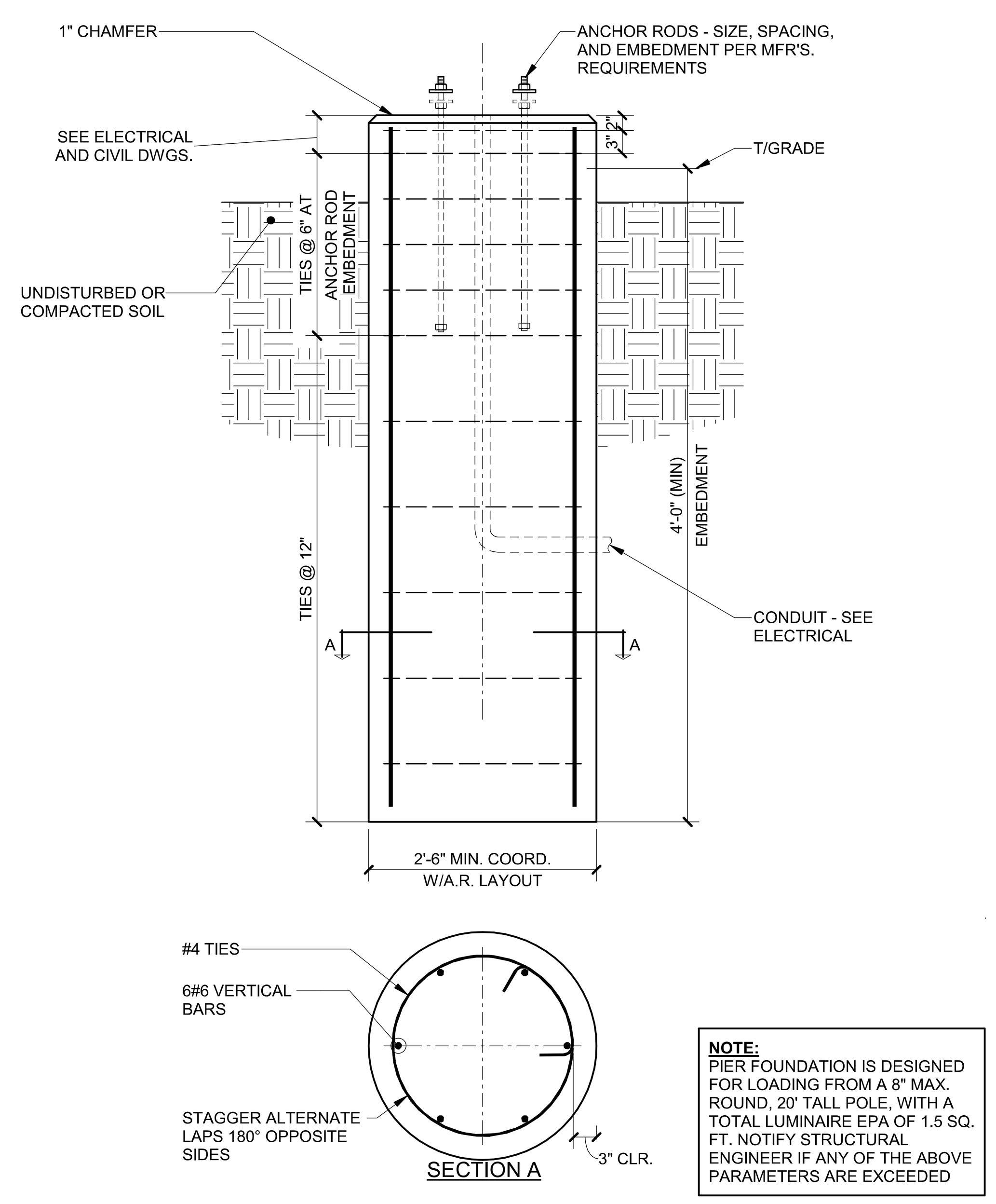
SLAB DEPTH "T"	MAX JOINT SPACING
4"	12'-0"
5"	15'-0"
>6"	18'-0"

LONG DIMENSION OF SLAB PANEL BETWEEN JOINTS SHALL NOT EXCEED 1.5 × SHORT DIMENSION

6 TYPICAL SLAB ON GROUND DETAILS

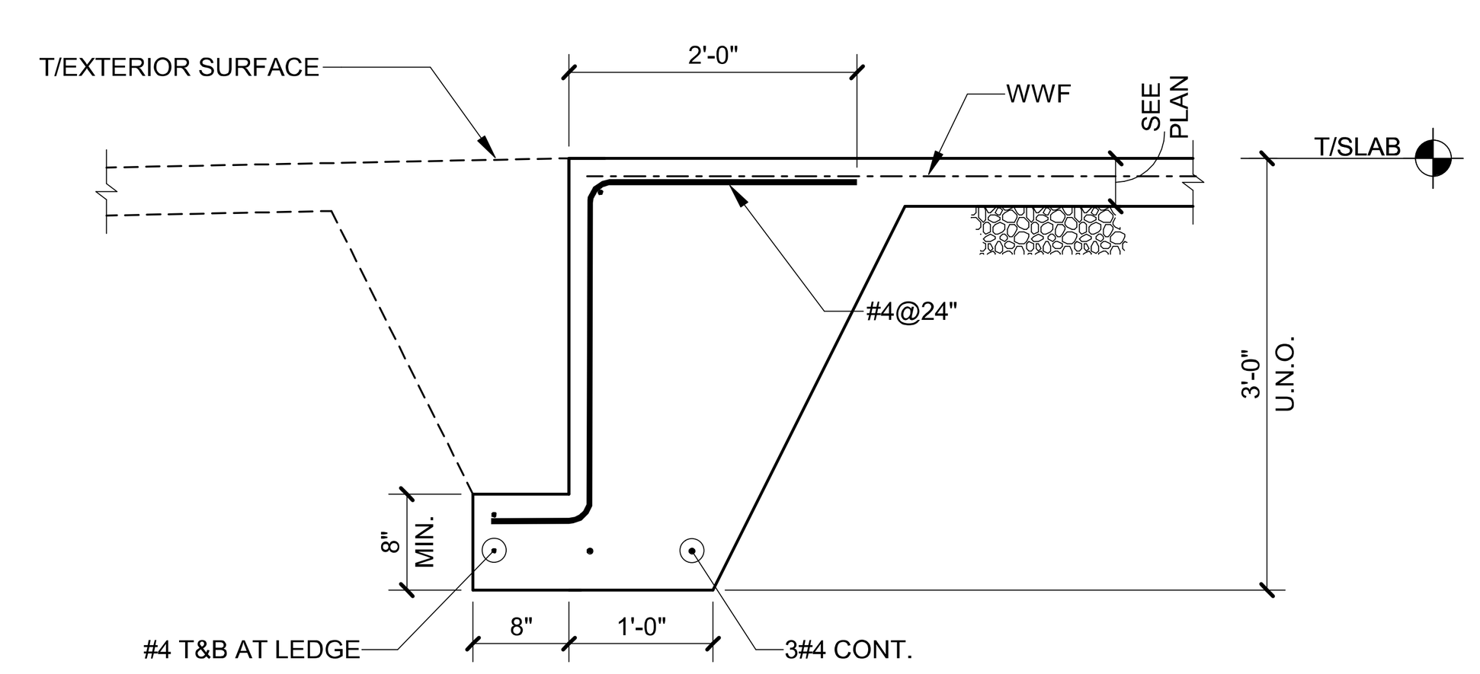


3 TYPICAL SECTION AT RETAINING WALL

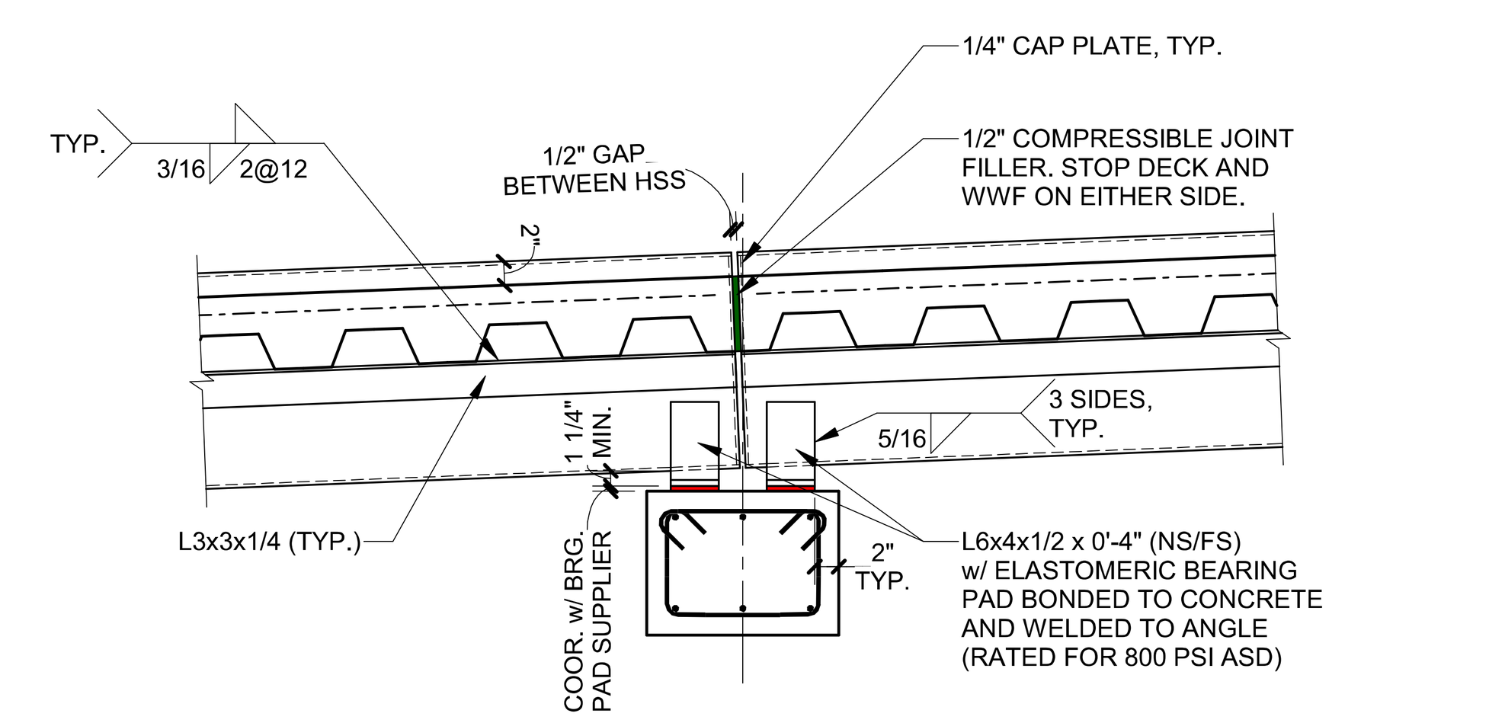


NOTE: PIER FOUNDATION IS DESIGNED FOR LOADING FROM A 8" MAX. ROUND, 20' TALL POLE, WITH A TOTAL LUMINAIRE EPA OF 1.5 SQ. FT. NOTIFY STRUCTURAL ENGINEER IF ANY OF THE ABOVE PARAMETERS ARE EXCEEDED

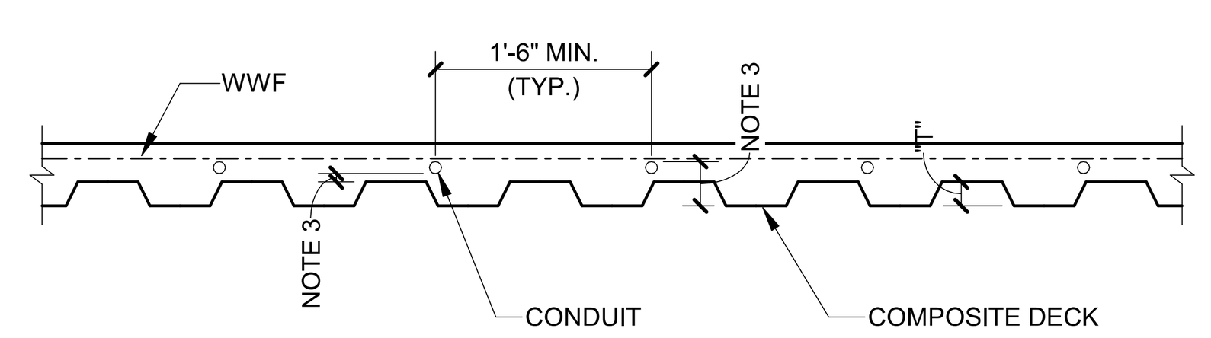
9 SITE LIGHT POLE FOUNDATION SECTION



5 TYPICAL TURNED DOWN SLAB



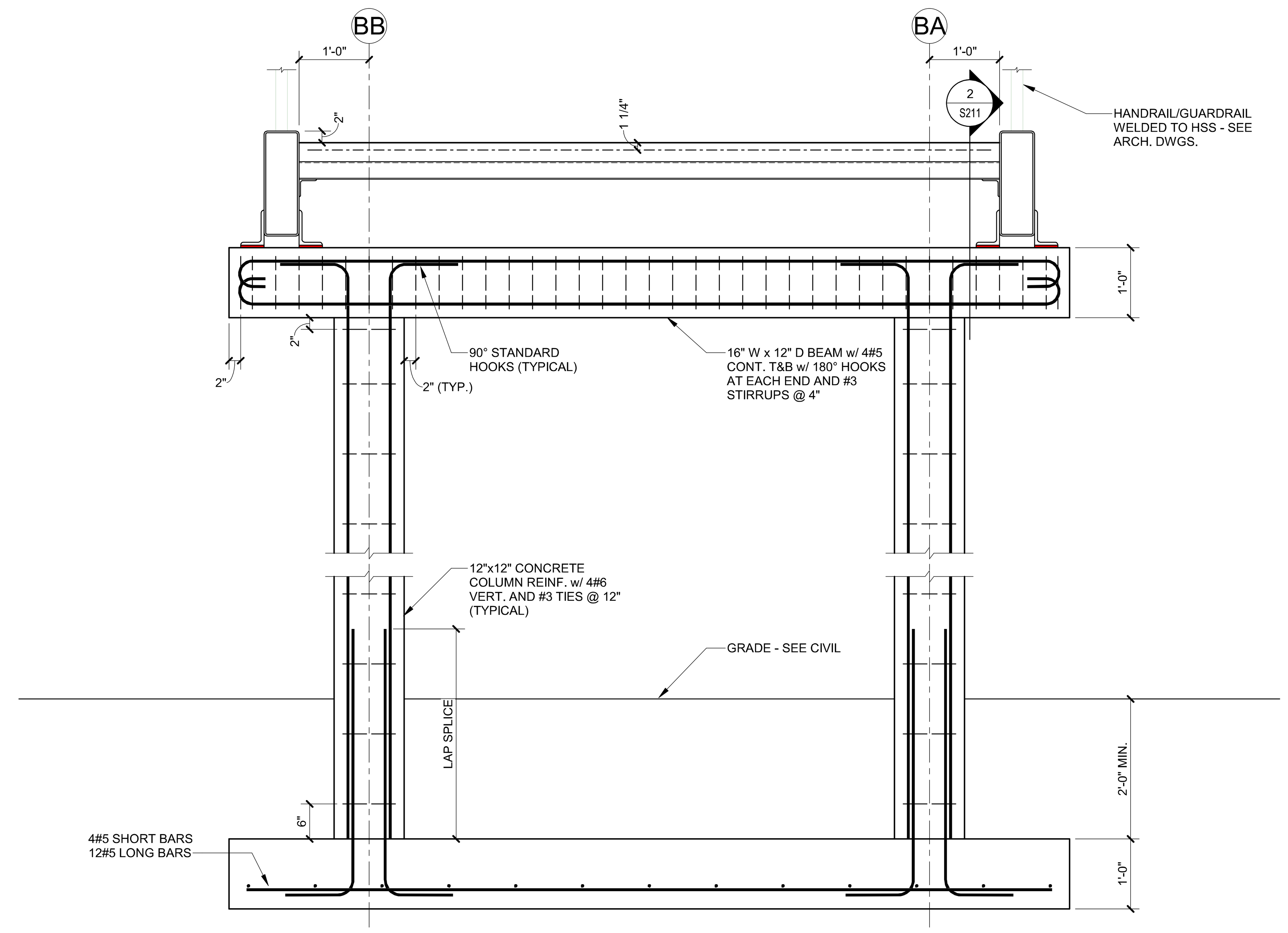
2 TYPICAL SECTION AT PEDESTRIAN BRIDGE



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



1 TYPICAL SECTION AT PEDESTRIAN BRIDGE

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PEDESTRIAN BRIDGE STRUCTURAL SECTIONS AND DETAILS

S211

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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
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ATS	AUTOMATIC TRANSFER SWITCH
BFC	BELOW FINISHED CEILING
BOF	BOTTOM OF FIXTURE
C	CONDUIT
CB,C/B OR CKT BKR	CIRCUIT BREAKER
CKT	CIRCUIT
CCTV	CLOSED CIRCUIT T.V.
CLG	CEILING
CR	CRITICAL (EMERGENCY SYSTEM)
CUH	CABINET HEATER
EC	EMPTY CONDUIT
ELEC	ELECTRIC
E	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EP	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
EX	EXISTING
F	FUSE
FA	FIRE ALARM
FACP, FAP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FTP, FTS OR FTU	FAN TERMINAL UNIT
FUT	FUTURE
G, GND	GROUND (EQUIPMENT)
GEF	GENERAL EXHAUST FAN
GEN	GENERATOR
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER
HOA	HAND-OFF-AUTO
HP	HORSE POWER
HV	HIGH VOLTAGE
HWAT	HEAT TRACE
IC	INTERRUPTING CAPACITY
ICAND	INCANDESCENT
IG	ISOLATED GROUND
IGF	GROUND FAULT INDICATION ONLY
JB	JUNCTION BOX
KEF	KITCHEN EXHAUST FAN
LTG	LIGHTING
LTS	LIGHTS
LV	LOW VOLTAGE
MATV	MASTER ANTENNA
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL

MH	MANHOLE
MLO	MAIN LUGS ONLY
MTD	MOUNT OR MOUNTED
MW	MICROWAVE
N	NEW DEVICE
NC (N.C.)	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NF	NONFUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO (N.O.)	NORMALLY OPEN
PB	PULL BOX
PLGMLD	PLUGMOLD
PNL	PANEL
PWR	POWER
R	RELOCATED DEVICE
RCPT(S) OR RECEPT	RECEPTACLE(S)
REF	REFRIGERATOR
RF	RETURN AIR FAN
SEF	SMOKE EXHAUST FAN
SF	SUPPLY AIR FAN
SO (S.O.)	SPACE ONLY
SP	SPARE
ST (S.T.)	SHUNT TRIP
SW	SWITCH
TEL	TELEPHONE
TF	TRANSFER FAN
TP	TAMPER PROOF
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
UF	UDERFLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UNO (U.N.O.)	UNLESS NOTED OR INDICATED OTHERWISE
V	VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
VP	VAPOR PROOF
VV	VARIABLE VOLUME UNIT
W	WIRE
W/	WITH
WG	WIRE GUARD
WP	WEATHER PROOF
WT	WATER TIGHT
XFMR	TRANSFORMER MOUNTING
+xx	HEIGHT IN INCHES. AFF UNO.
UCR	UNCER CABINET REFRIGERATOR

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
¤	FIRE ALARM VISUAL SIGNAL WALL MOUNTED	80" AFF
⊠◁ CLG X	FIRE ALARM AUDIBLE VISUAL SIGNAL CEILING MOUNTED (X: H=HORN, S=SPEAKER)	--
□◁ CLG X	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	--
DH	ELECTRO-MAGNETIC DOOR HOLDER	AS REQUIRED
M	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

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	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
E5.01 02	- DENOTES: REFERENCE ENLARGED DETAIL PLAN 02 ON DRAWING (SHEET) E5.01
(717629) 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/3W/G NEMA 5-20R	18" AFF
⊜	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	18" AFF
⊜	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	18" AFF
⊟	DUPLEX RECEPTACLE GFCI - 20A/125V/2P/3W/G NEMA 5-20R	18" AFF
⊟	DUPLEX RECEPTACLE GFCI ABOVE COUNTERTOP - 20A/125V/2P/3W/G NEMA 5-20R	8" AFC OR 42" AFF
⊟	EMEREGENCY DUPLEX RECEPTACLE GFCI - 20A/125V/2P/3W/G NEMA 5-20R	18" AFF
⊜ H	DUPLEX RECEPTACLE MOUNTED HORIZONTALLY	18" AFF
⊜ WP	DUPLEX RECEPTACLE, GFCI, TAMPER RESISTANT, WEATHER RESISTANT, HOUSED IN A "WEATHERPROOF-WHILE-IN-USE" ENCLOSURE - 20A/125V/2P/3W/G NEMA 5-20R	18" AFF
⊜	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP	8" AFC OR 42" AFF
⊜	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP ON EMERGENCY CIRCUIT	8" AFC OR 42" AFF
⊕	QUADRAPLEX RECEPTACLE (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	18" AFF
⊕	QUADRAPLEX RECEPTACLE ON EMERGENCY CIRCUIT (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	18" AFF
⊕	QUADRAPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	8" AFC OR 42" AFF
⊕	QUADRAPLEX RECEPTACLE MOUNTED ABOVE COUNTERTOP ON EMERGENCY CIRCUIT (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE)	8" AFC OR 42" AFF
⊗	EMERGENCY SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)	18" AFF
⊗	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)	18" AFF
⊙	FLOOR MOUNTED RECEPTACLE IN FLOOR BOX OR POKE-THRU DEVICE - FLUSH MOUNTED, UNO	FLUSH W/ FLR SURFACE
⊙	CEILING MOUNTED RECEPTACLE - CONFIGURATION UNO	FLUSH W/ CLG SURFACE
Ⓙ ⊢Ⓙ	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	AS REQUIRED
⧄	POWER POLE	--
▭	PLUGMOLD	AS REQUIRED
□ X/Y/Z	DISCONNECT SWITCH (X=FRAME SIZE, Y=FUSE SIZE, Z=NUMBER OF POLES)	AS REQUIRED
□ X/-/Z	DISCONNECT SWITCH NON-FUSED (X=FRAME SIZE, Z=NUMBER OF POLES)	AS REQUIRED
CB □ X/Z	ENCLOSED CIRCUIT BREAKER (X=TRIP RATING, Z=NUMBER OF POLES)	AS REQUIRED
⊠#	MOTOR STARTER FVNR UNO (#=NEMA SIZE)	AS REQUIRED
CB ⊠	COMBINATION MOTOR CONTROLLER / DISCONNECT SWITCH	AS REQUIRED
$M	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD AND PILOT LIGHT	AS REQUIRED
⌓	EMERGENCY POWER OFF BUTTON - WALL MOUNTED	AS REQUIRED
—⫲—	CIRCUIT CONDUCTOR INDICATION (EQUIPMENT GROUND, NEUTRAL, PHASE)	--
—►	CIRCUIT HOMERUN TO PANELBOARD (2#12, 1#12G, 3/4"C. 20A/1P CB UNO)	--
- - - -	CONDUIT INSTALLED IN CEILING SPACE OF FLOOR BELOW.	--
X,X,X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.	--
X,X,X	MULTI-POLE DEVICE CIRCUIT NUMBERS. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.	--
◩	208Y/120V PANELBOARD	--
▬	480Y/277V PANELBOARD	--
▧	208Y/120V DISTRIBUTION PANELBOARD	--
▩	480Y/277V DISTRIBUTION PANELBOARD	--
▭	ISOLATION PANEL	--
▥	SWITCHBOARD	--
T	STEP-DOWN TRANSFORMER	--
⊠	AUTOMATIC TRANSFER SWITCH	--
⊠	BY-PASS / ISOLATION AUTOMATIC TRANSFER SWITCH	--
⏚⏚	GROUND BAR	--
PG	PATIENT GROUND BAR	--
BAS	BUILDING AUTOMATION SYSTEM	AS REQUIRED

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri
02/06/2025

LIGHTING SYMBOLS LEGEND

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

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
▭	2'x4' LIGHT FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
▨	2'x4' LIGHT FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
▩	2'x4' LIGHT FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
⧄	2'x4' LIGHT FIXTURE WITH BI-LEVEL SWITCHING. PROVIDE DUAL BALLAST/DRIVERS. BOTH BALLAST/DRIVERS ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
⧄	2'x4' LIGHT FIXTURE WITH BI-LEVEL SWITCHING. PROVIDE DUAL BALLAST/DRIVERS. ONE BALLAST/DRIVER ON NORMAL CIRCUIT AND ONE BALLAST/DRIVER ON LIFE SAFETY CIRCUIT	SEE FIXTURE SCHEDULE
⧄	2'x4' LIGHT FIXTURE WITH BI-LEVEL SWITCHING. PROVIDE DUAL BALLAST/DRIVERS. ONE BALLAST/DRIVER ON NORMAL CIRCUIT AND ONE BALLAST/DRIVER ON CRITICAL CIRCUIT	SEE FIXTURE SCHEDULE
□	2'x2' LIGHT FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
▨	2'x2' LIGHT FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
▩	2'x2' LIGHT FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
⧄	2'x2' LIGHT FIXTURE WITH BI-LEVEL SWITCHING. PROVIDE DUAL BALLAST/DRIVERS. BOTH BALLAST/DRIVERS ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
⧄	2'x2' LIGHT FIXTURE WITH BI-LEVEL SWITCHING. PROVIDE DUAL BALLAST/DRIVERS. ONE BALLAST/DRIVER ON NORMAL CIRCUIT AND ONE BALLAST/DRIVER ON LIFE SAFETY CIRCUIT	SEE FIXTURE SCHEDULE
⧄	2'x2' LIGHT FIXTURE WITH BI-LEVEL SWITCHING. PROVIDE DUAL BALLAST/DRIVERS. ONE BALLAST/DRIVER ON NORMAL CIRCUIT AND ONE BALLAST/DRIVER ON CRITICAL CIRCUIT	SEE FIXTURE SCHEDULE
▭	WALL MOUNTED LINEAR FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
▨	WALL MOUNTED LINEAR FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
▩	WALL MOUNTED LINEAR FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
▭	RECESSED/SURFACE MOUNTED LINEAR FIXTURE ON NORMAL CIRCUIT.	SEE NOTE 2
▨	RECESSED/SURFACE MOUNTED LINEAR FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE NOTE 2
▩	RECESSED/SURFACE MOUNTED LINEAR FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE NOTE 2
○ □	RECESSED/SURFACE DOWNLIGHT FIXTURE ON NORMAL CIRCUIT.	SEE NOTE 2
⊘ ▨	RECESSED/SURFACE DOWNLIGHT FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE NOTE 2
⊗ ▩	RECESSED/SURFACE DOWNLIGHT FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE NOTE 2
○ □	WALL MOUNTED FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
⊘ ▨	WALL MOUNTED FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
⊗ ▩	WALL MOUNTED FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
◐	RECESSED DOWNLIGHT FIXTURE WITH WALL WASH ON NORMAL CIRCUIT.	SEE NOTE 2
◐	RECESSED DOWNLIGHT FIXTURE WITH WALL WASH ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE NOTE 2
◐	RECESSED DOWNLIGHT FIXTURE WITH WALL WASH ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE NOTE 2
▭	HANGING RECTANGULAR PENDANT FIXTURE ON NORMAL CIRCUIT.	SEE NOTE 3
▨	HANGING RECTANGULAR PENDANT FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE NOTE 3
▩	HANGING RECTANGULAR PENDANT FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE NOTE 3
○	HANGING CIRCULAR PENDANT FIXTURE ON NORMAL CIRCUIT.	SEE NOTE 3
⊘	HANGING CIRCULAR PENDANT FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE NOTE 3
⊗	HANGING CIRCULAR PENDANT FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE NOTE 3
⌓	EMERGENCY LIGHTING UNIT. WALL MOUNTED BATTERY-POWERED LIGHTING. CONNECT TO NORMAL CIRCUIT IN AREA SERVED	SEE FIXTURE SCHEDULE
⊗	CEILING MOUNTED EXIT SIGN. SHADING INDICATES DOUBLE OR SINGLE FACE. ARROW INDICATES CHEVRON DIRECTIONS.	SEE FIXTURE SCHEDULE
⊗	END MOUNTED EXIT SIGN. SHADING INDICATES DOUBLE OR SINGLE FACE. ARROW INDICATES CHEVRON DIRECTIONS.	SEE FIXTURE SCHEDULE
⊗	WALL MOUNTED EXIT SIGN. SHADING INDICATES DOUBLE OR SINGLE FACE. ARROW INDICATES CHEVRON DIRECTIONS.	SEE FIXTURE SCHEDULE
□	WALL PACK LIGHT FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
▨	WALL PACK LIGHT FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
▩	WALL PACK LIGHT FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
¤	BOLLARD LIGHT FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
¤	BOLLARD LIGHT FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
¤	BOLLARD LIGHT FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
○—¤	EXTERIOR LIGHT POLE FIXTURE ON NORMAL CIRCUIT.	SEE FIXTURE SCHEDULE
○—¤	EXTERIOR LIGHT POLE FIXTURE ON LIFE SAFETY CIRCUIT OR LEGALLY REQUIRED STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
○—¤	EXTERIOR LIGHT POLE FIXTURE ON CRITICAL CIRCUIT OR NON-ESSENTIAL STANDBY SYSTEM.	SEE FIXTURE SCHEDULE
!	SPOT/FLOOD LIGHT FIXTURE.	SEE FIXTURE SCHEDULE

LIGHTING NOTES:
1. REFER TO LIGHT FIXTURE SCHEDULE FOR SPECIFIC FIXTURE INFORMATION.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR MOUNTING HEIGHTS. IT IS THE INTENT, UNLESS NOTED OTHERWISE, THAT SURFACE AND RECESSED FIXTURES ARE TO BE MOUNTED AT ARCHITECTS CEILING PLANE.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR MOUNTING HEIGHTS OF PENDANT FIXTURES. REFER TO LIGHTING FIXTURE SCHEDULE FOR PENDANT MATERIAL.

LIGHTING CONTROLS SYMBOLS LEGEND

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

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
⟨#⟩	# IN DIAMOND REFERS TO LIGHTING CONTROLS REQUIREMENTS AND SEQUENCE OF OPERATIONS SCHEDULE.	
$	WALL SWITCH SPST, 20A, 120/277V	48" AFF
$3	3-WAY WALL SWITCH, 20A, 120/277V	48" AFF
$D	WALL DIMMER SWITCH, 20A, 120/277V	48" AFF
$3D	3-WAY WALL DIMMER SWITCH, 20A, 120/277V	48" AFF
$O	OCCUPANCY SENSOR WALL SWITCH, 20A, 120/277V, AUTO 'ON' TO 100%, AUTO 'OFF'	48" AFF
$OSBI.D	BI-LEVEL OCCUPANCY SENSOR DIMMING WALL SWITCH, 20A, 120/277V, AUTO 'ON' TO 50%, MANUAL 'ON' TO 100%, AUTO 'OFF', WITH RAISE/LOWER	48" AFF
1	1 ZONE, LOW VOLTAGE SWITCH, ON/OFF	48" AFF
1D	1 ZONE, LOW VOLTAGE DIMMING SWITCH, ON/OFF WITH RAISE/LOWER BUTTONS	48" AFF
2	2 ZONE, LOW VOLTAGE SWITCH, SEPARATE ON/OFF BUTTONS FOR EACH ZONE	48" AFF
2D	2 ZONE, LOW VOLTAGE DIMMING SWITCH, ON/OFF WITH RAISE/LOWER BUTTONS, SEPARATE BUTTONS PROVIDED FOR EACH ZONE	48" AFF

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL MOUNTING HEIGHTS. WHERE MOUNTING HEIGHT IS NOT INDICATED BY ARCHITECT, PROVIDE AT 48" AFF.
2. ANY SINGLE LOW VOLTAGE WALL STATION CONTROLLING BOTH A NORMAL LIGHTING CIRCUIT AND EMERGENCY LIGHTING CIRCUIT SHALL BE PROVIDED WITH DIFFERENT COLOR BUTTONS (NORMAL - WHITE, EMERGENCY -RED). REFER TO SPECIFICATIONS FOR MORE INFORMATION.

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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NUMBER PE-2017000125
12/05/2024
WSP USA Buildings Inc. 2013001881

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

AUTHORITY HAVING JURISDICTION'S PROJECT NO:

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:

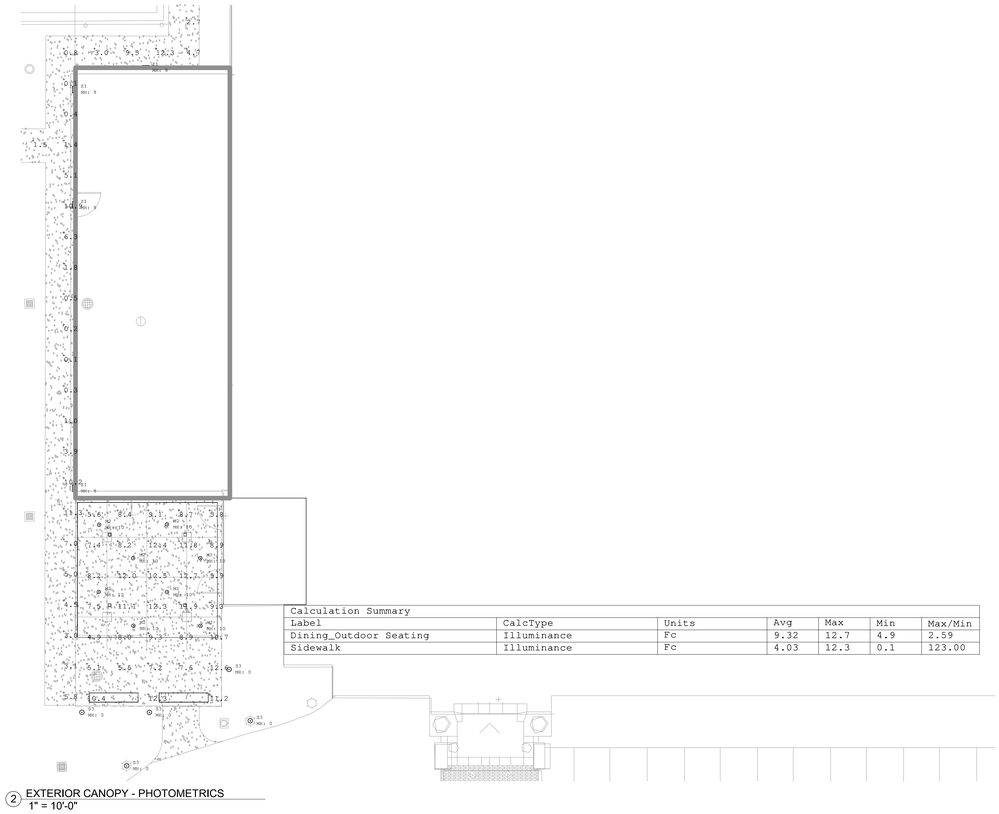
REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	2024/12/05
SCALE:	As indicated
DRAWN:	Author
REVIEWED:	Checker
JOB NUMBER:	6406.24

GENERAL INFORMATION - ELECTRICAL

E00-00

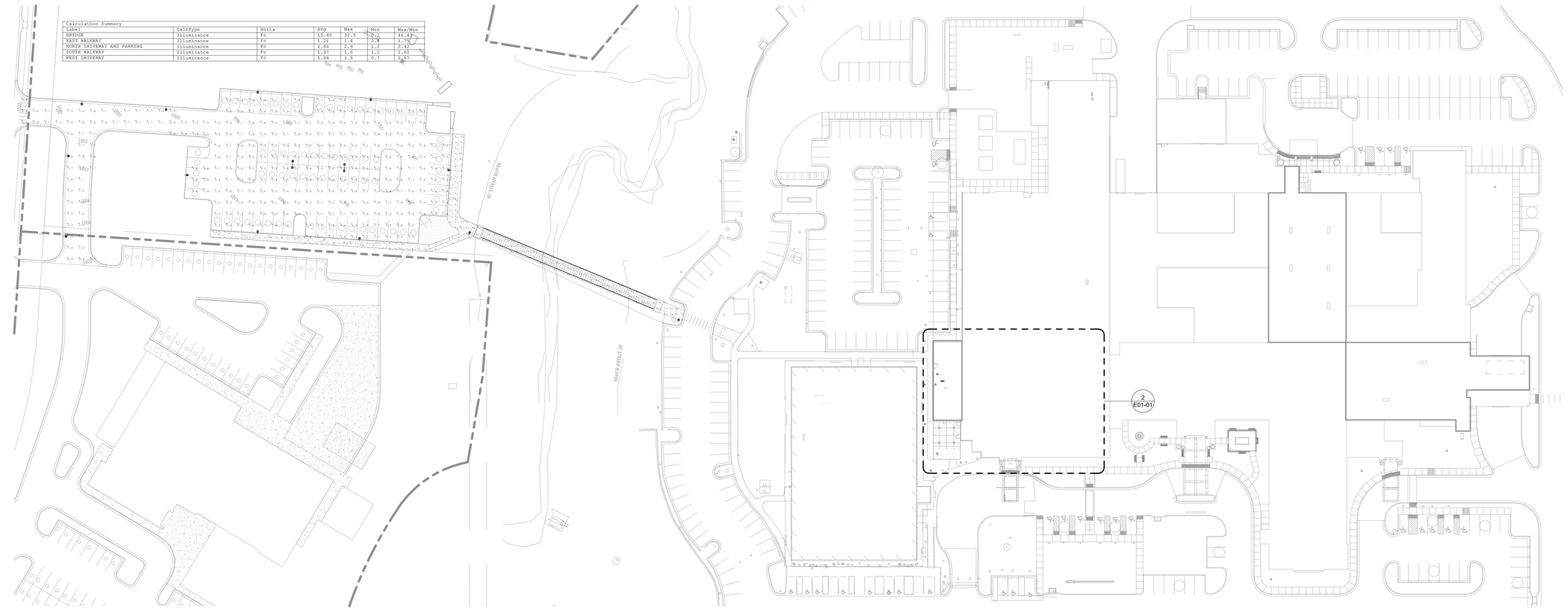
12/4/2024 6:53:28 PM Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_LSMC Med Surg & Dietery Expansion_R23.rvt



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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As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

02/06/2025

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12/05/2024
WSP USA Buildings Inc. 2013001881

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		
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SITE PLAN - PHOTOMETRICS

E01-01

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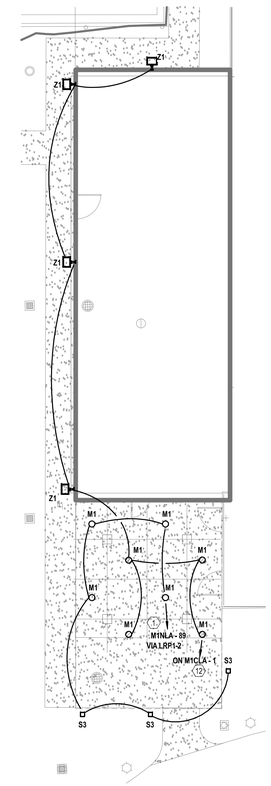
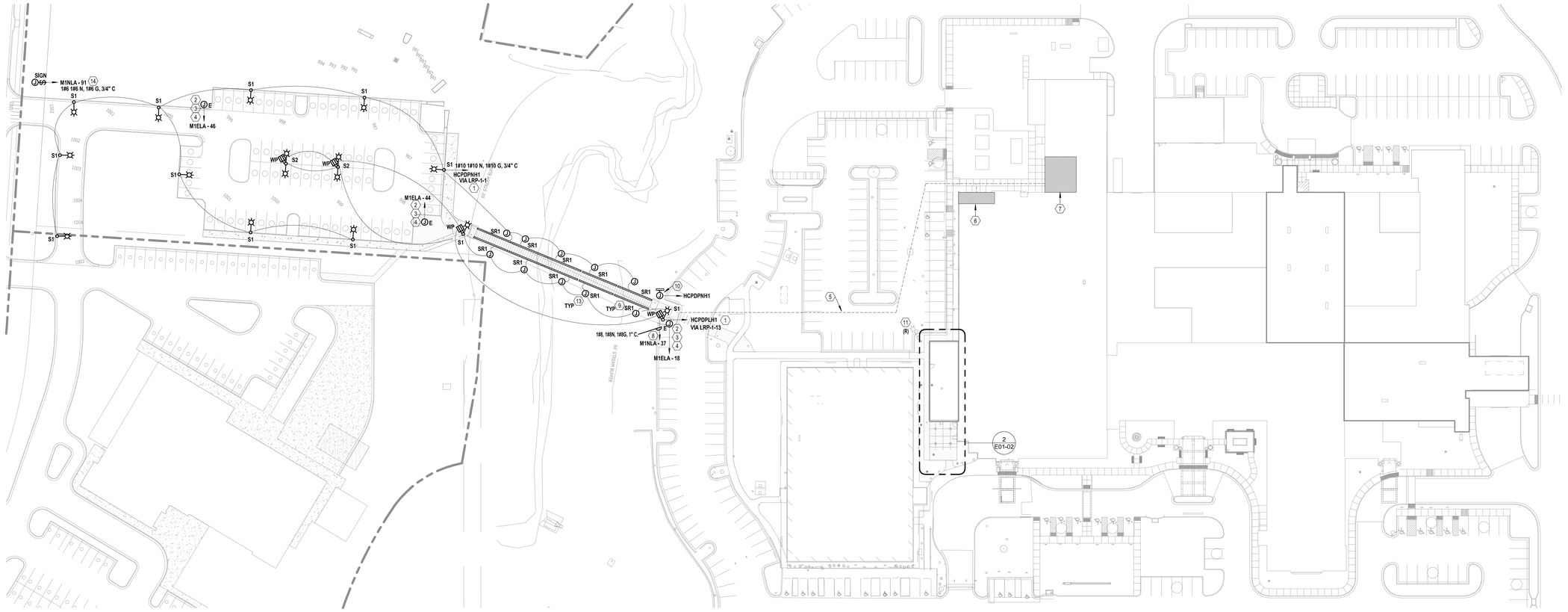


2 EXTERIOR CANOPY - MEP
1" = 10'-0"



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

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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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SITE & BRIDGE EARLY RELEASE PACKAGE

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

AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

FACILITY NUMBER:
0972400009

AGENCY APPROVALS:
AGENCY

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SITE PLAN - ELECTRICAL

E01-02

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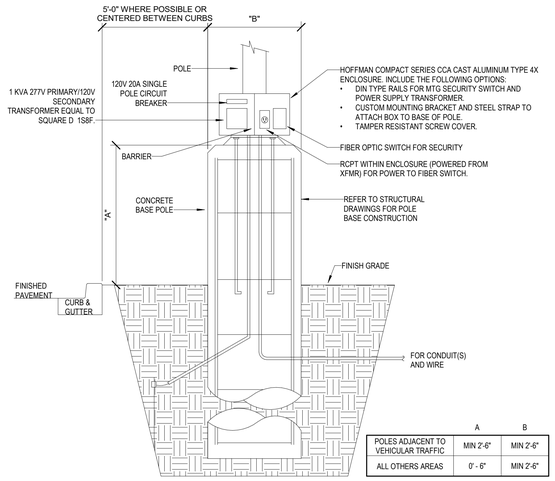

	A	B
POLES ADJACENT TO VEHICULAR TRAFFIC	MIN 2'-6"	MIN 2'-6"
ALL OTHERS AREAS	0' - 6"	MIN 2'-6"

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

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INTERIM REVIEW ONLY

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

Engineer: MINDY WAHSLER
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]

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

02/06/2025

Devenney GROUP

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

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

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

JUNO

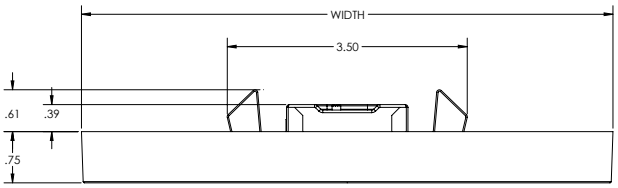
Juno SlimForm™ LED with Selectable CCT

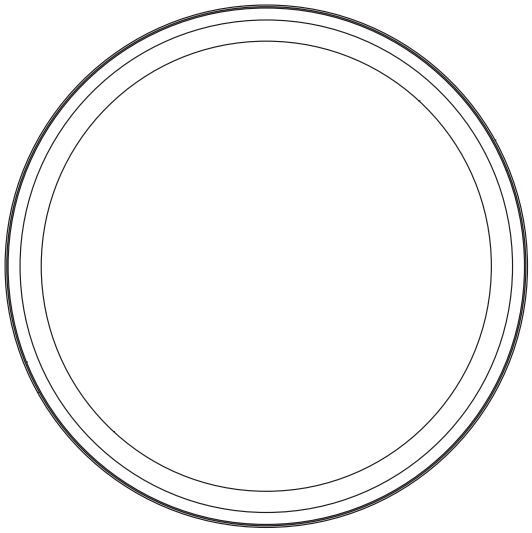
5" and 7" Round Downlight for JBox Installation

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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Lee's Summit, Missouri

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JUNO

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	WH	White
		7IN	7 inches	BL	Black
				BZ	Bronze
				SN*	Satin Nickel

Note:
* SN not available for 5IN

BLACK

BRONZE

SATIN NICKEL

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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

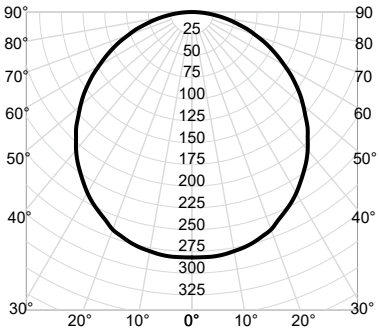
Juno SlimForm™ LED with Selectable CCT

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

0°	
0°	282
5°	282
15°	274
25°	253
35°	224
45°	188
55°	146
65°	101
75°	56
85°	17
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	220	28%
0° - 40°	358	45%
0° - 60°	625	79%
0° - 90°	791	100%
90° - 180°	0	0%
0° - 180°	791	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρw									
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

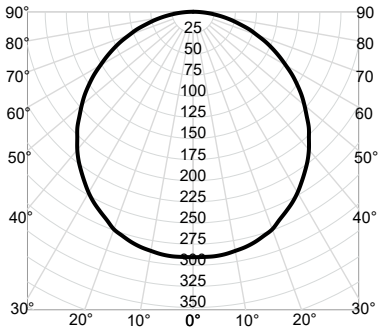
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	7.8	17.9
8.0	4.4	23.8
10.0	2.8	29.8
12.0	2.0	35.8
14.0	1.4	41.7

Beam Angle: 112.3°
Field Angle: 163.9°

Luminance (cd/sq.m)

	Average Luminance
0°	31,550
45°	29,745
55°	28,478
65°	26,737
75°	24,207
85°	21,822

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

0°	
0°	290
5°	290
15°	282
25°	261
35°	231
45°	194
55°	150
65°	104
75°	58
85°	18
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	227	28%
0° - 40°	369	45%
0° - 60°	643	79%
0° - 90°	814	100%
90° - 180°	0	0%
0° - 180°	814	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρw									
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

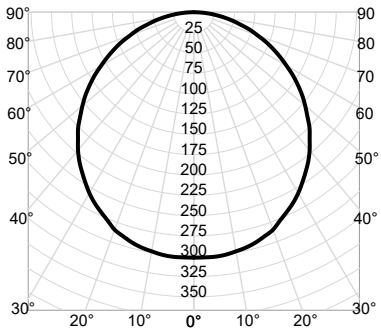
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	8.1	17.9
8.0	4.5	23.8
10.0	2.9	29.8
12.0	2.0	35.8
14.0	1.5	41.7

Beam Angle: 112.3°
Field Angle: 163.9°

Luminance (cd/sq.m)

	Average Luminance
0°	32,496
45°	30,638
55°	29,332
65°	27,539
75°	24,933
85°	22,477

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

0°	
0°	302
5°	302
15°	293
25°	271
35°	240
45°	201
55°	156
65°	108
75°	60
85°	18
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	236	28%
0° - 40°	383	45%
0° - 60°	668	79%
0° - 90°	846	100%
90° - 180°	0	0%
0° - 180°	846	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρw									
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	8.4	17.9
8.0	4.7	23.8
10.0	3.0	29.8
12.0	2.1	35.8
14.0	1.5	41.7

Beam Angle: 112.3°
Field Angle: 163.9°

Luminance (cd/sq.m)

	Average Luminance
0°	33,758
45°	31,827
55°	30,471
65°	28,609
75°	25,901
85°	23,350

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

02/06/2025

Juno SlimForm™ LED with Selectable CCT

5" and 7" Round Downlight for JBox Installation

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

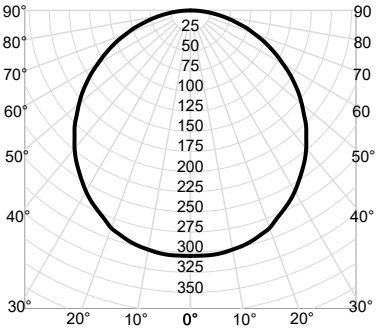
Development Services Department
Lee's Summit, Missouri

02/06/2025

JSF

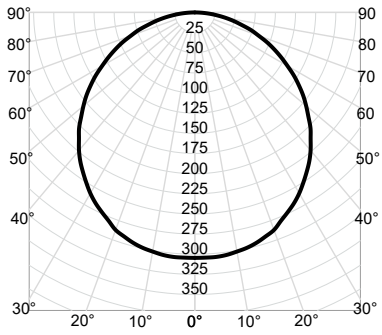
PHOTOMETRICS

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



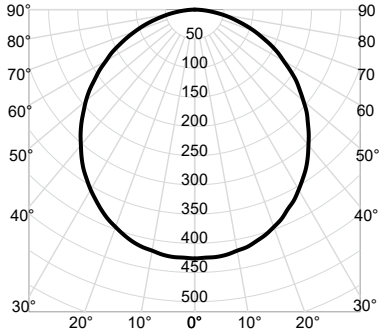
CP Summary		Zonal Lumen Summary			Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
					ρf			20%							Mounting Height	Initial FC Center Beam	Beam Diameter		
	0°	Zone	Lumens	% Fixture	ρc	80%			70%			50%							Average Luminance
0°	305	0° - 30°	238	28%	ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	6.0	8.5	17.9	0°	34,074
5°	305	0° - 40°	386	45%	1	104	100	96	102	98	94	98	94	91	8.0	4.8	23.8	45°	32,125
15°	296	0° - 60°	675	79%	2	91	84	78	89	82	77	85	80	75	10.0	3.0	29.8	55°	30,756
25°	273	0° - 90°	854	100%	3	80	71	65	78	70	64	75	69	63	12.0	2.1	35.8	65°	28,876
35°	242	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	1.6	41.7	75°	26,143
45°	203	0° - 180°	854	100%	5	63	54	47	62	54	47	60	52	47				85°	23,568
55°	158				6	57	48	41	56	47	41	54	47	41	Beam Angle: 112.3°				
65°	109				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					

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



CP Summary		Zonal Lumen Summary			Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
					ρf			20%							Mounting Height	Initial FC Center Beam	Beam Diameter		
	0°	Zone	Lumens	% Fixture	ρc	80%			70%			50%							Average Luminance
0°	305	0° - 30°	238	28%	ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	6.0	8.5	17.9	0°	34,074
5°	305	0° - 40°	386	45%	1	104	100	96	102	98	94	98	94	91	8.0	4.8	23.8	45°	32,125
15°	296	0° - 60°	675	79%	2	91	84	78	89	82	77	85	80	75	10.0	3.0	29.8	55°	30,756
25°	273	0° - 90°	854	100%	3	80	71	65	78	70	64	75	69	63	12.0	2.1	35.8	65°	28,876
35°	242	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	1.6	41.7	75°	26,143
45°	203	0° - 180°	854	100%	5	63	54	47	62	54	47	60	52	47				85°	23,568
55°	158				6	57	48	41	56	47	41	54	47	41	Beam Angle: 112.3°				
65°	109				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					

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



CP Summary		Zonal Lumen Summary			Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
					ρf			20%							Mounting Height	Initial FC Center Beam	Beam Diameter		
	0°	Zone	Lumens	% Fixture	ρc	80%			70%			50%							Average Luminance
0°	426	0° - 30°	331	28%	ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	6.0	11.8	16.9	0°	18,617
5°	425	0° - 40°	538	45%	1	104	100	96	102	98	94	97	94	91	8.0	6.7	22.5	45°	16,934
15°	410	0° - 60°	937	79%	2	91	84	78	89	83	77	85	80	75	10.0	4.3	28.2	55°	16,153
25°	377	0° - 90°	1,182	100%	3	80	72	65	78	71	64	75	69	63	12.0	3.0	33.8	65°	14,891
35°	332	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	2.2	39.5	75°	12,833
45°	274	0° - 180°	1,182	100%	5	63	54	48	62	54	47	60	52	47				85°	10,029
55°	212				6	57	48	42	56	47	41	54	47	41	Beam Angle: 109.3°				
65°	144				7	52	43	37	51	42	37	49	42	36	Field Angle: 161.5°				
75°	76				8	47	39	33	46	38	33	45	38	32					
85°	20				9	43	35	29	43	35	29	42	34	29					
90°	0				10	40	32	27	39	32	27	38	31	27					

JUNO

Juno SlimForm™ LED with Selectable CCT

5" and 7" Round Downlight for JBox Installation

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

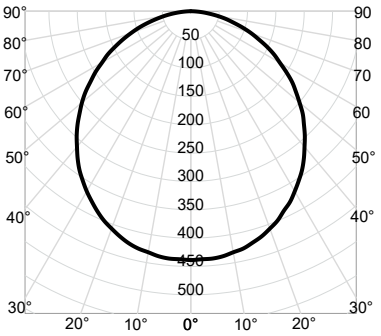
Development Services Department
Lee's Summit, Missouri

02/06/2025

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	
	0°
0°	439
5°	438
15°	422
25°	388
35°	342
45°	282
55°	218
65°	148
75°	78
85°	21
90°	0

Zonal Lumen Summary			
Zone	Lumens	% Fixture	
0° - 30°	341	28%	
0° - 40°	554	45%	
0° - 60°	966	79%	
0° - 90°	1,218	100%	
90° - 180°	0	0%	
0° - 180°	1,218	100%	

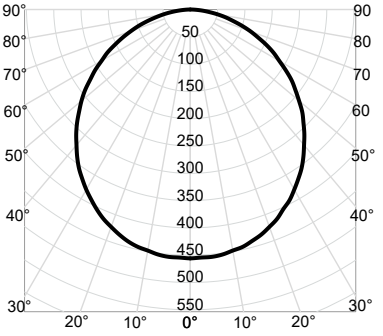
Coefficients of Utilization										
ρf				20%						
ρc		80%			70%			50%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	119	119	119	116	116	116	111	111	111	
1	104	100	96	102	98	94	97	94	91	
2	91	84	78	89	83	77	85	80	75	
3	80	72	65	78	71	64	75	69	63	
4	71	62	55	69	61	55	67	60	54	
5	63	54	48	62	54	47	60	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	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	
	0°
0°	456
5°	455
15°	439
25°	403
35°	355
45°	293
55°	227
65°	154
75°	81
85°	21
90°	0

Zonal Lumen Summary			
Zone	Lumens	% Fixture	
0° - 30°	354	28%	
0° - 40°	575	45%	
0° - 60°	1,003	79%	
0° - 90°	1,265	100%	
90° - 180°	0	0%	
0° - 180°	1,265	100%	

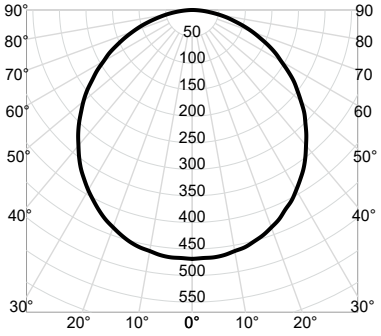
Coefficients of Utilization										
ρf				20%						
ρc		80%			70%			50%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	119	119	119	116	116	116	111	111	111	
1	104	100	96	102	98	94	97	94	91	
2	91	84	78	89	83	77	85	80	75	
3	80	72	65	78	71	64	75	69	63	
4	71	62	55	69	61	55	67	60	54	
5	63	54	48	62	54	47	60	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	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	
	0°
0°	469
5°	468
15°	451
25°	415
35°	365
45°	301
55°	233
65°	158
75°	84
85°	22
90°	0

Zonal Lumen Summary			
Zone	Lumens	% Fixture	
0° - 30°	364	28%	
0° - 40°	592	45%	
0° - 60°	1,031	79%	
0° - 90°	1,300	100%	
90° - 180°	0	0%	
0° - 180°	1,301	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	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

JUNO

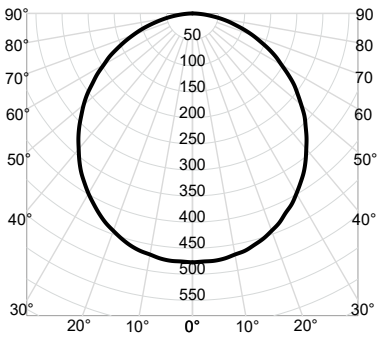
Juno SlimForm™ LED with Selectable CCT

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%			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	13.3	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

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

02/06/2025

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

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Development Services Department
Lee's Summit, Missouri

02/06/2025

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.

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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).

RSA Round Straight Aluminum Poles

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

NOTE: EPA values are based ASCE 7-93 wind map.
*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

RSA Round Straight Aluminum Poles

TECHNICAL INFORMATION — EPA (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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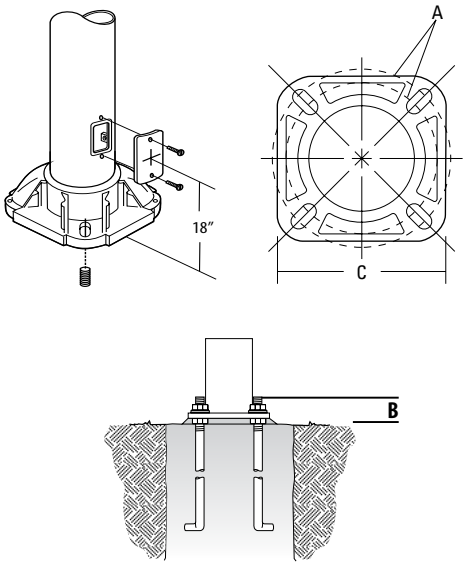
Lee's Summit, Missouri

02/06/2025

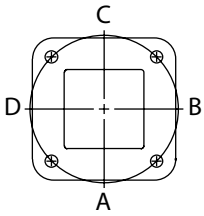
RSA Round Straight Aluminum Poles

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.

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02/06/2025

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

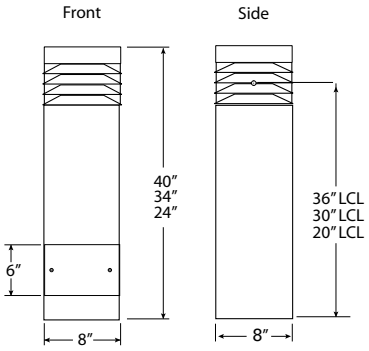
BAA

BABA

Specifications

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

DIMENSIONS

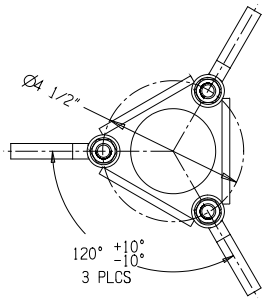


LUMEN PACKAGES

	SYM
Delivered Lumens	1810
Watts	84
LPW	22

Note: Information Based on 50K

MOUNTING



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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

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

PROJECTED LED LUMEN MAINTENANCE

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

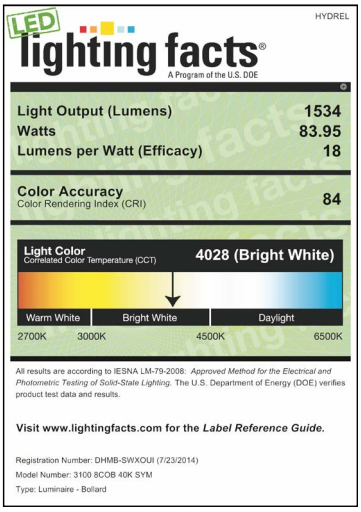
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

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

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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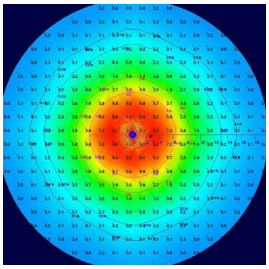
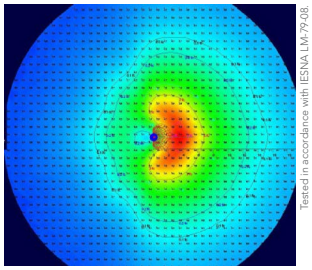
PERFORMANCE DATA

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



SYM



FT

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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.

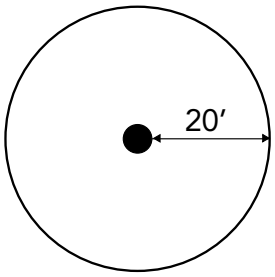
Light Engines	Distribution	Drive Current	System Watt	Lumens	LPW	B	U	G
3000K	SYM	250*	72	1300	18	1	2	1
		300	84	1525	18	1	2	1
4000K	SYM	250*	72	1320	18	1	2	1
		300	84	1535	18	1	2	1
5000K	SYM	250*	72	1535	21	1	2	1
		300	84	1810	22	2	2	1
2000K	SYM	1050	72	900	13	1	2	1

*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.

iRAIL™ LIGHTED RAILING SYSTEM
PRODUCT DATA

VIVA RAILINGS®
LEADERS IN ARCHITECTURAL RAILING SYSTEMS

DESIGN ◆ ENGINEER ◆ FABRICATE ◆ INSTALL

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iRAIL™ LED SYSTEM

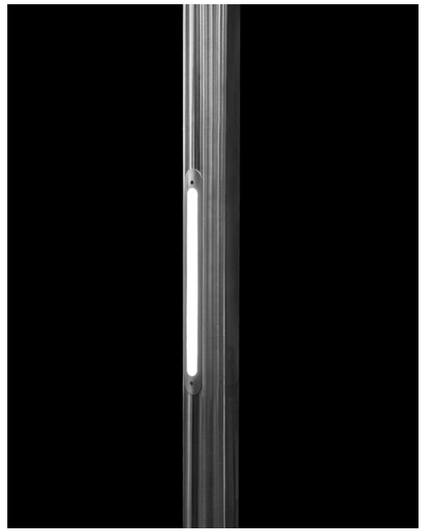
Our iRAIL System is a LED illuminated version of our 1.5” diameter rails. iRAIL uses an ADA compliant roll-formed (monolithic) slotted rail, that houses a high-performance LED assembly.

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.

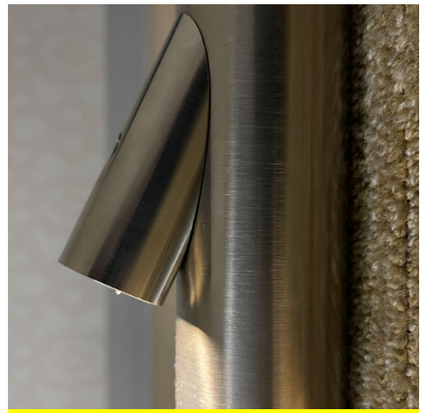
LINEAR

PODS

CAPSULE



SCONCE



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iRAIL™ LED SYSTEM - TECHNICAL DATA

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	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	

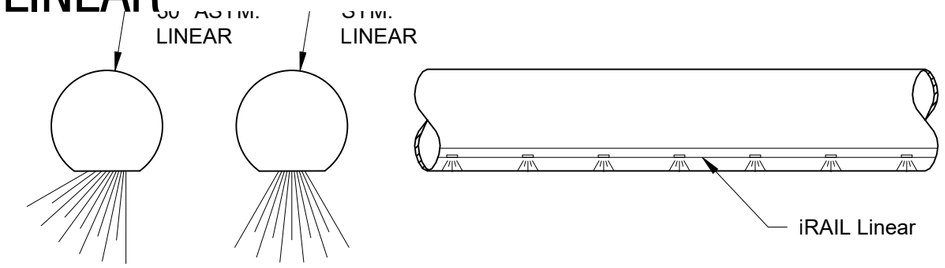
Intertek

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

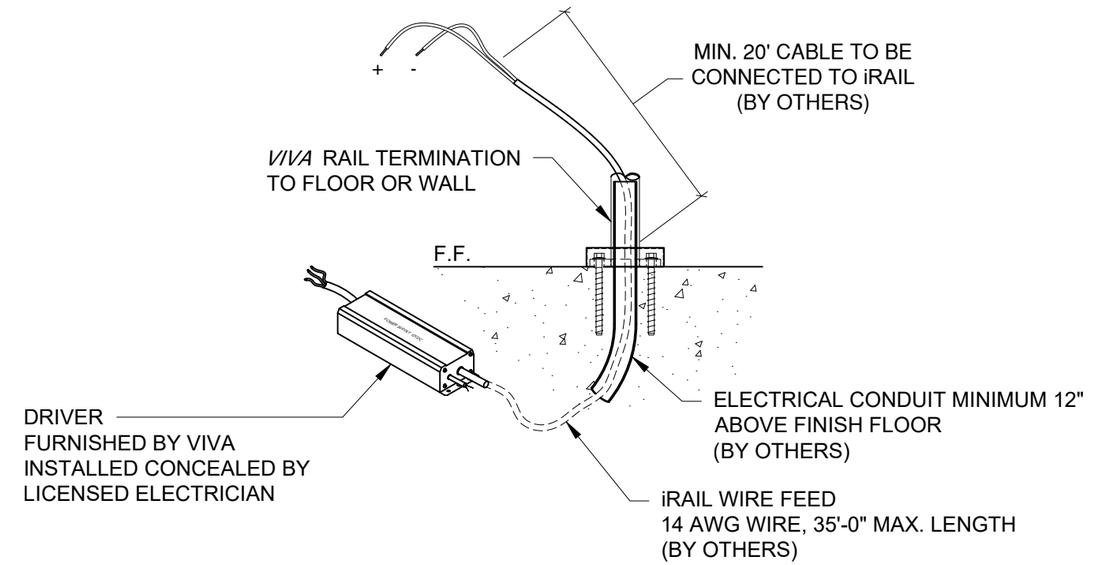
2. Other species available upon request

LIGHTED TOPRAIL / HANDRAIL

LINEAR



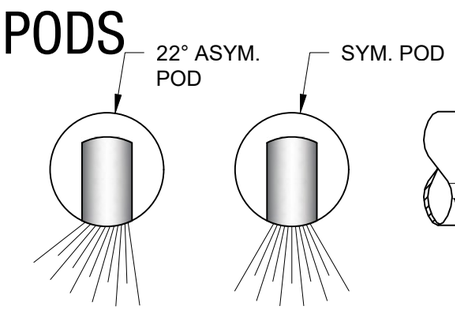
iRAIL LINEAR ORIENTATION OPTIONS



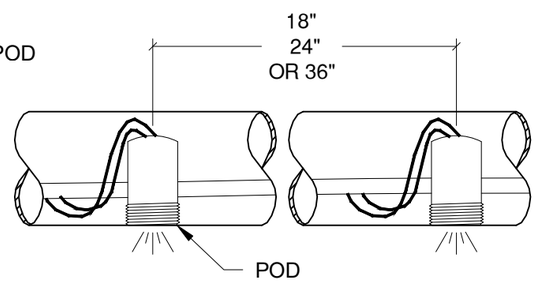
PROVIDE ONE PAIR OF WIRES 14 GA (BLACK-RED) FOR EVERY iRAIL RUN. EVERY iRAIL RUN COVERS:

- 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

PODS



iRAIL POD ORIENTATION OPTIONS



iRAIL POD SPACING OPTIONS

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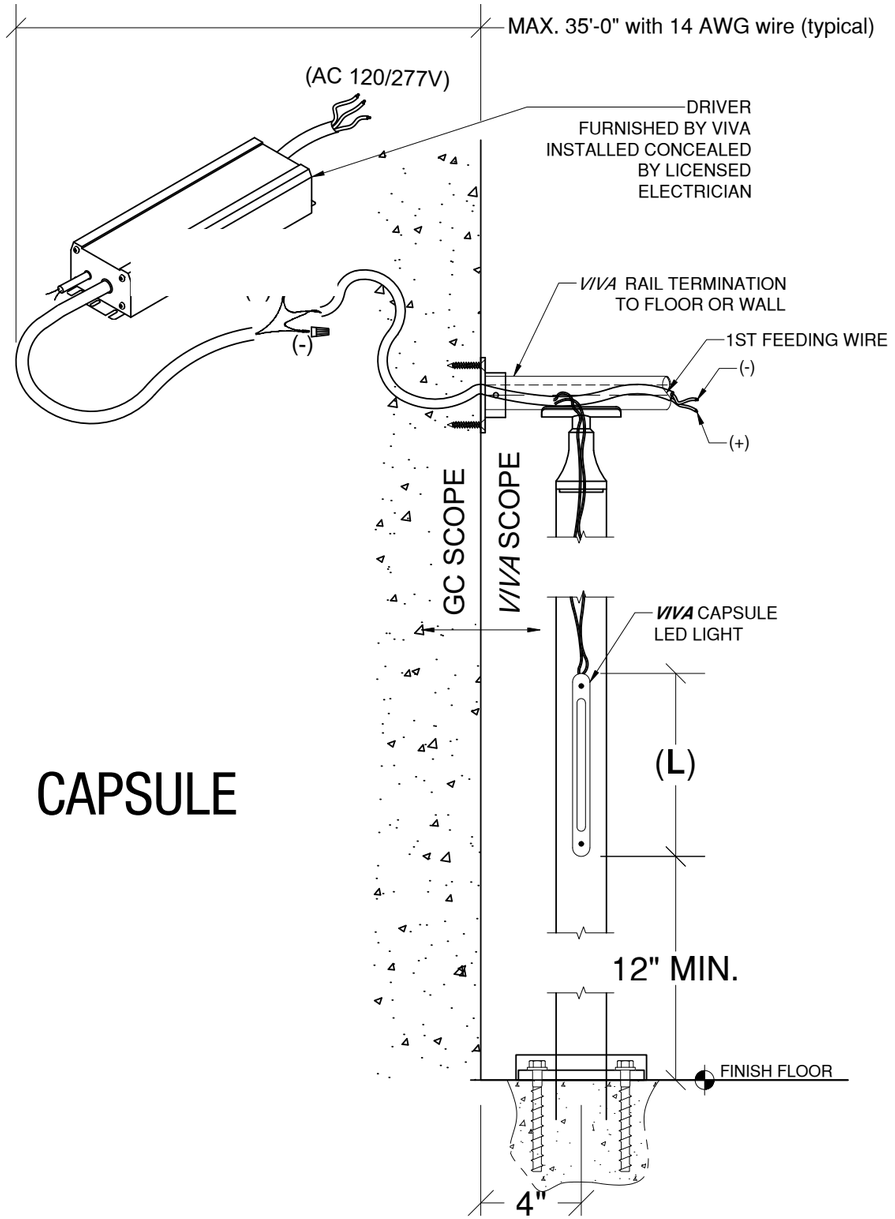
LIGHTED POST



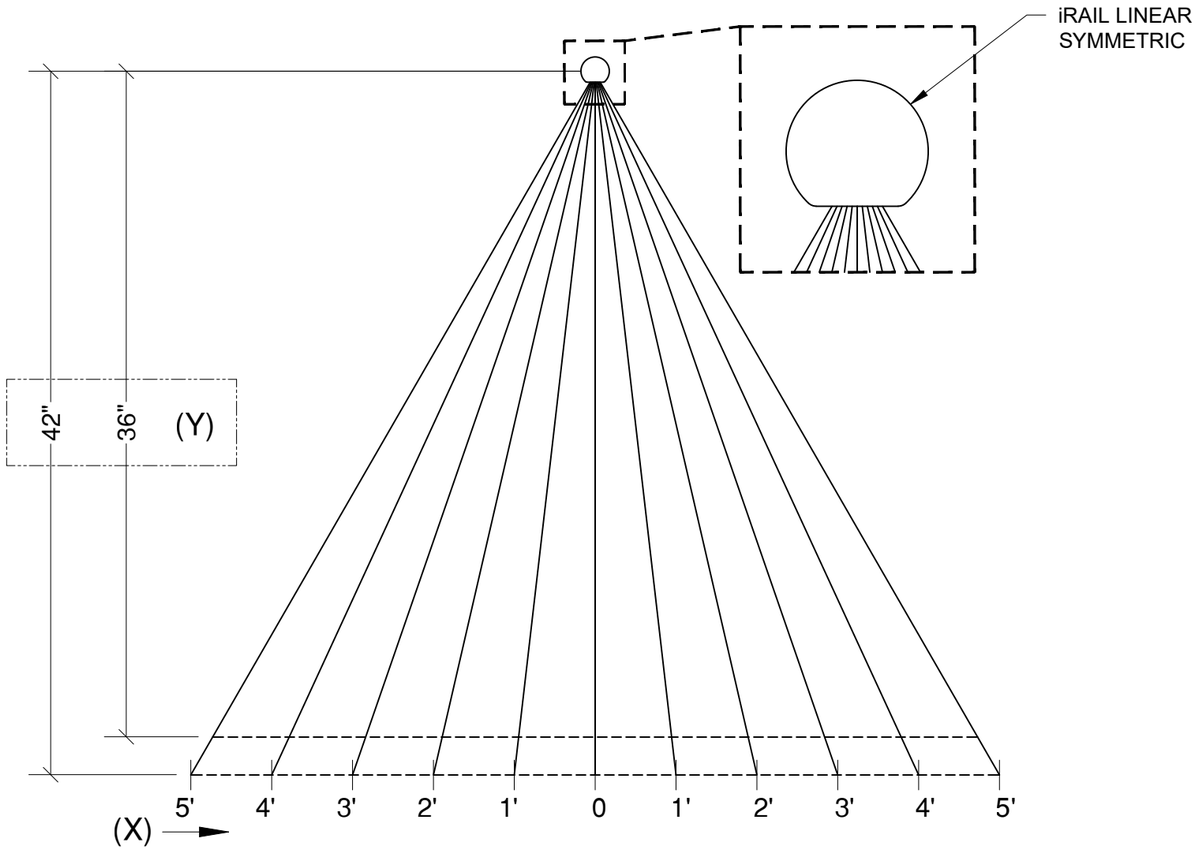
CAPSULE

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"

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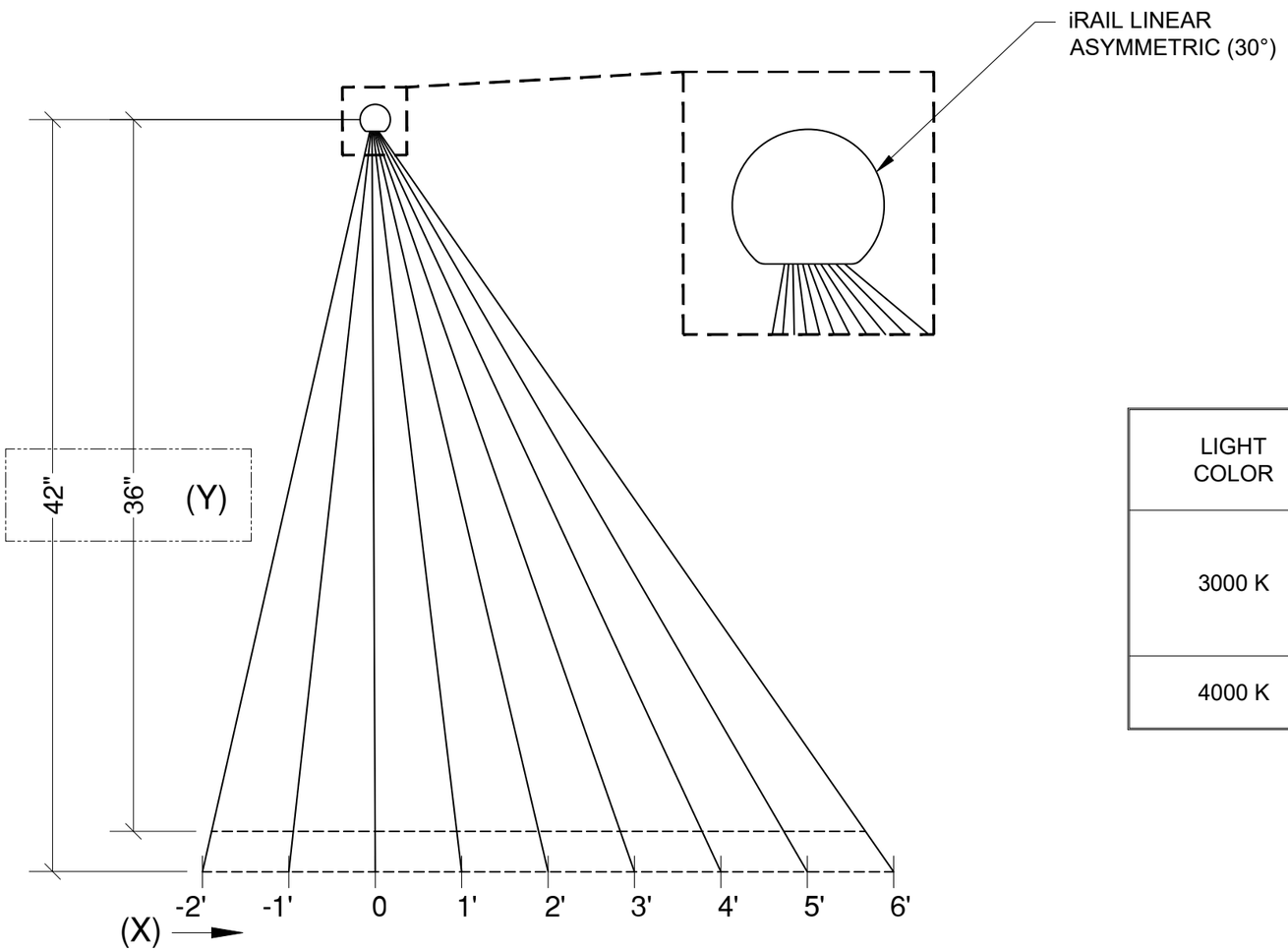
POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 18”)



iRAIL LINEAR LIGHT DISPERSION DIAGRAM

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

LIGHT COLOR	INTENSITY (OUTPUT)	POWER	Y \ X	-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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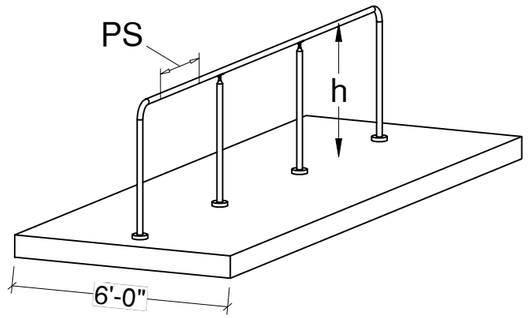
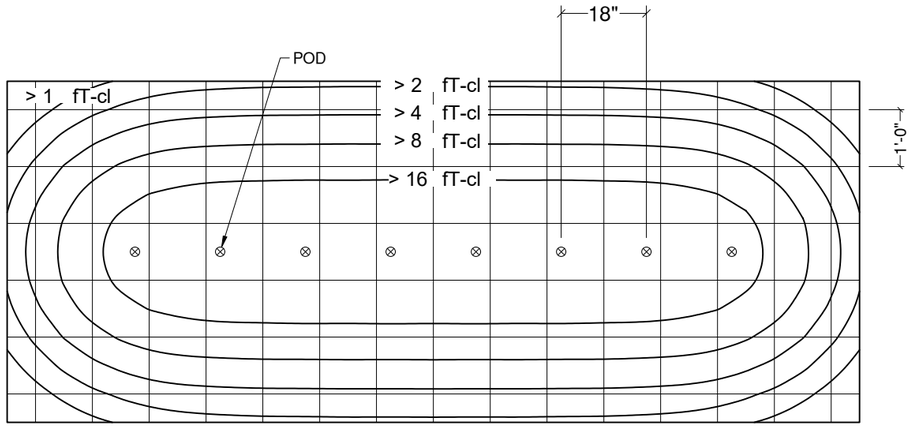
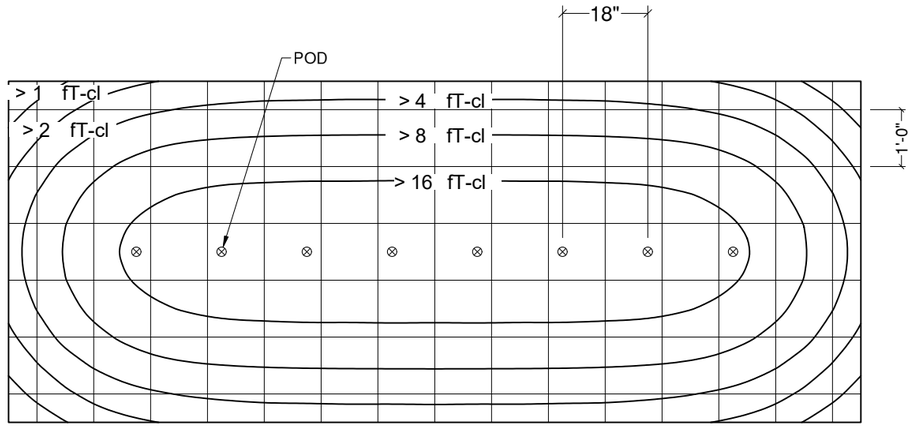
POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 18”)



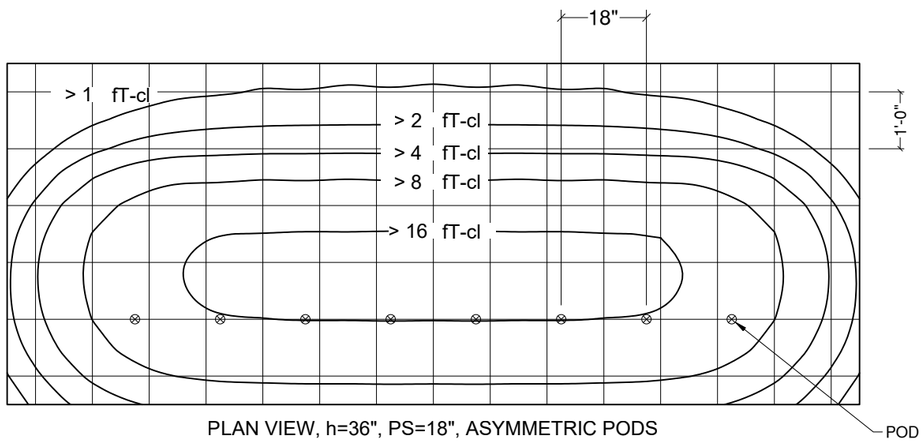
h: Illuminated Rail Height
PS(Pod Spacing) = 18"



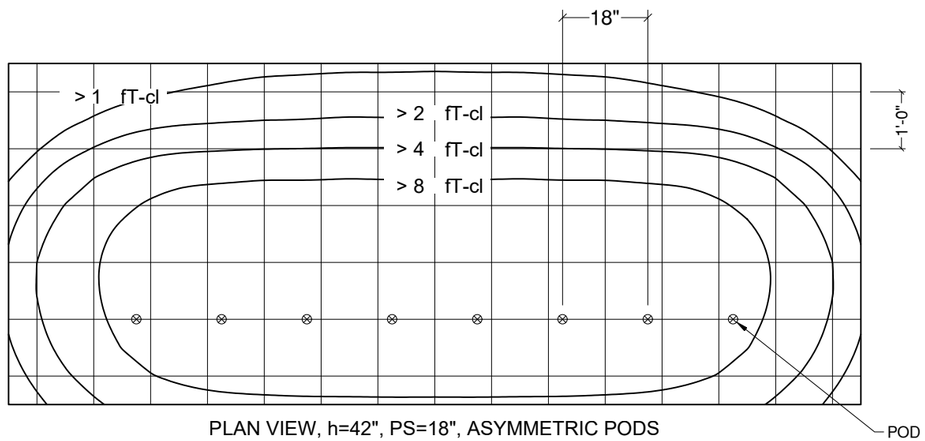
PLAN VIEW, h=36", PS=18", SYMMETRIC PODS
FC: MAX=19.8, MIN=0.2, AVE.=6.1



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

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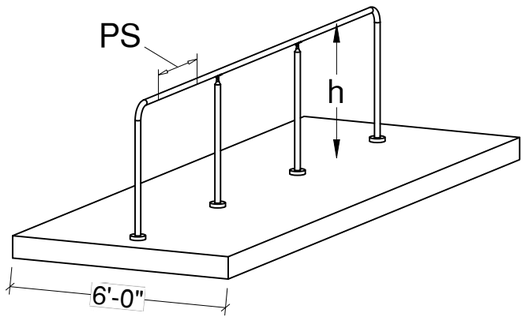
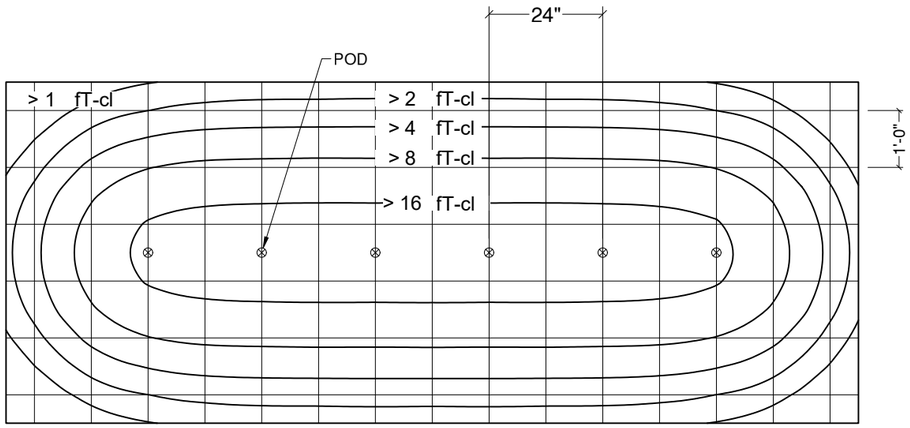
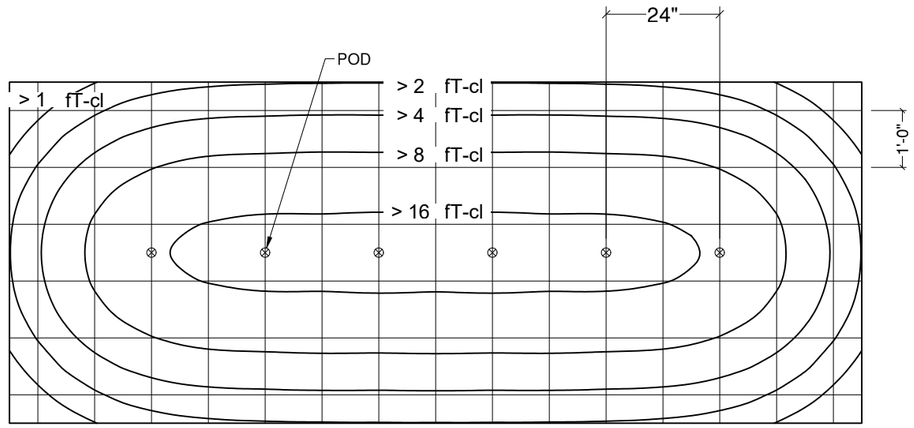
POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 24”)



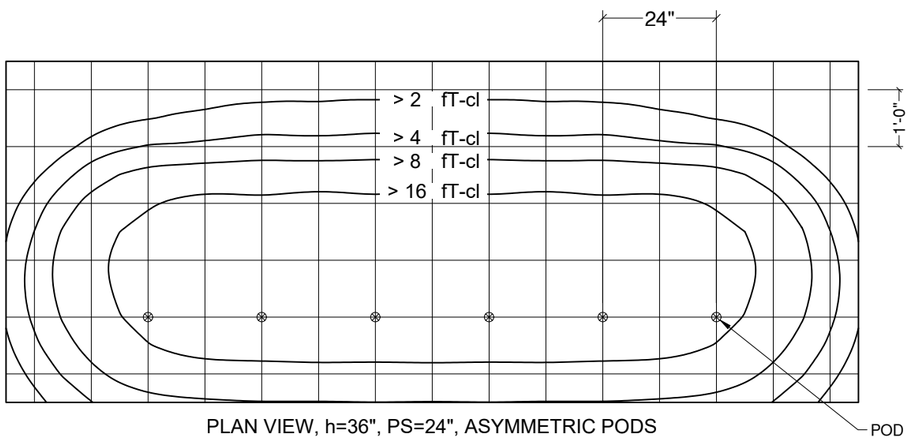
h: Illuminated Rail Height
PS(Pod Spacing) = 24"



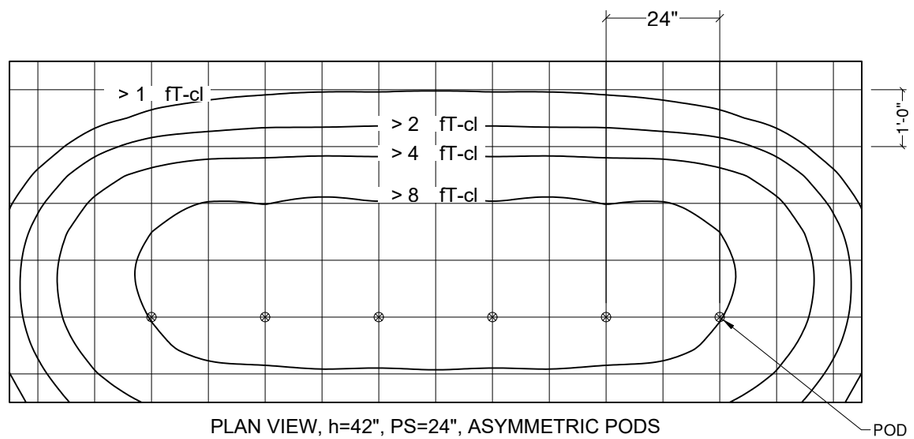
PLAN VIEW, h=36", PS=24", SYMMETRIC PODS
FC: MAX=14.9, MIN=0.1, AVE.=4.6



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



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



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

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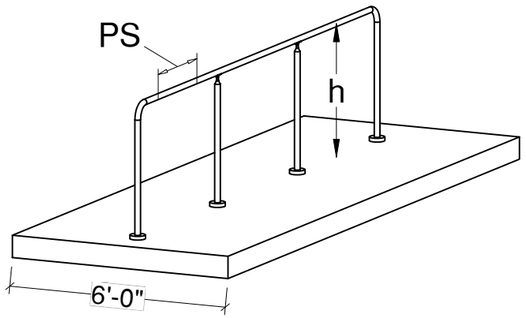
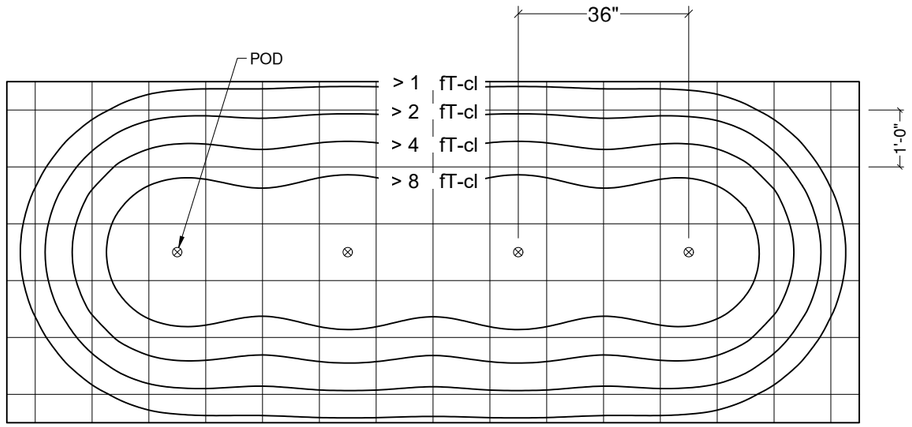
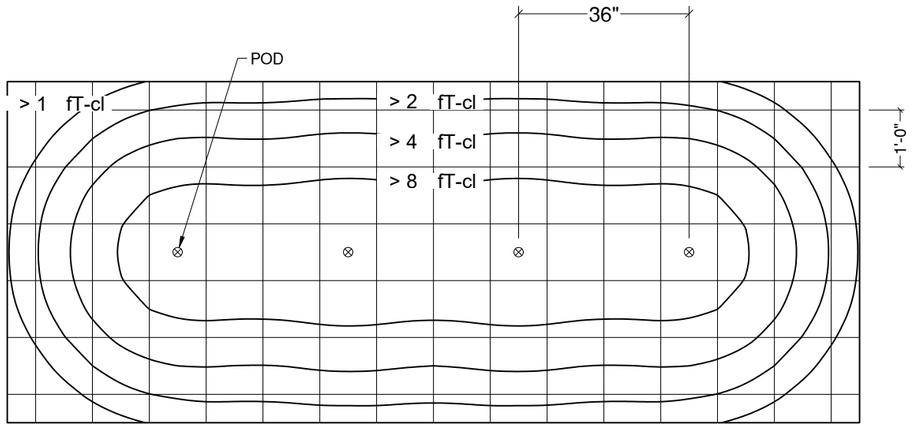
POD ISO FOOT CANDLE DISPERSION DIAGRAM (POD SPACING 36”)



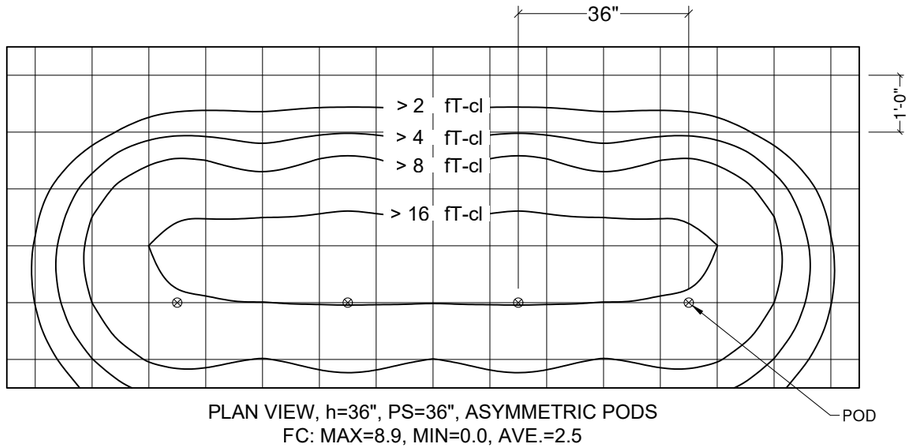
h: Illuminated Rail Height
PS(Pod Spacing) = 36"



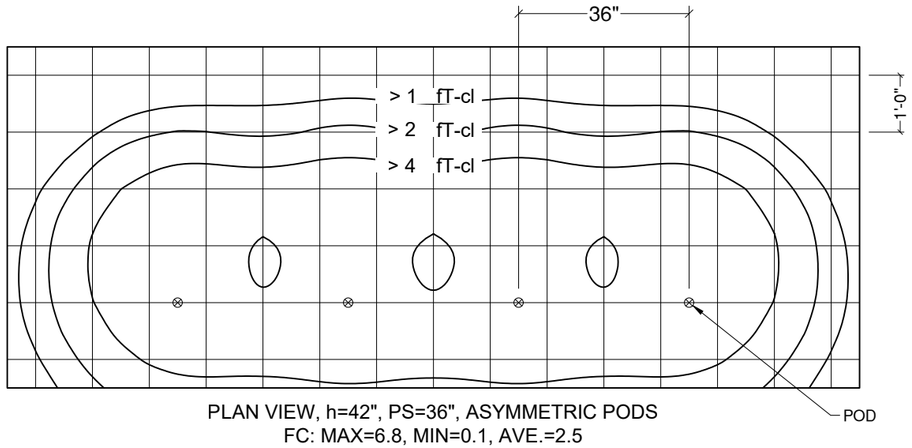
PLAN VIEW, h=36", PS=36", SYMMETRIC PODS
FC: MAX=10.9, MIN=0.1, AVE.=3.0



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



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



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

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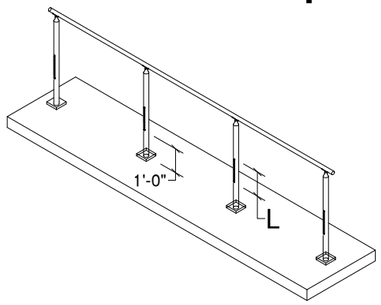
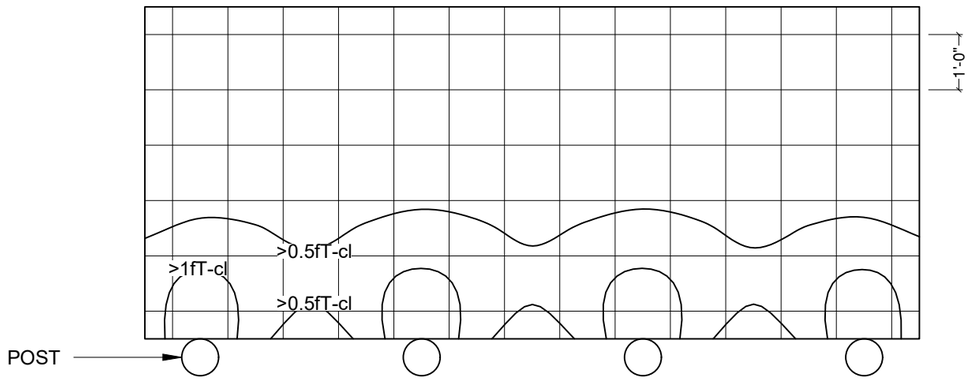
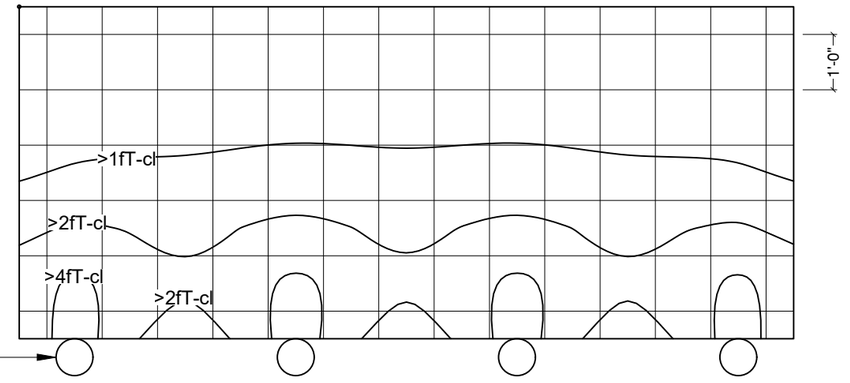
CAPSULE Dispersion Diagram





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



ISO FOOT CANDLE DISPERSION PLAN VIEW,
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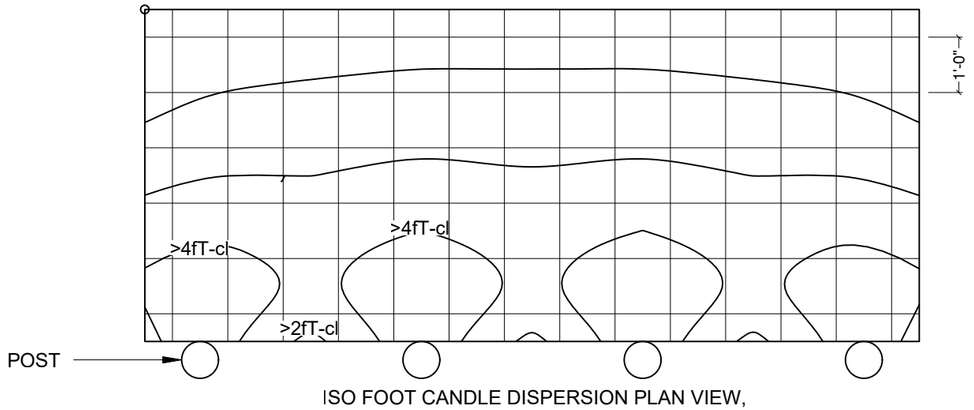

ISO FOOT CANDLE DISPERSION PLAN VIEW,
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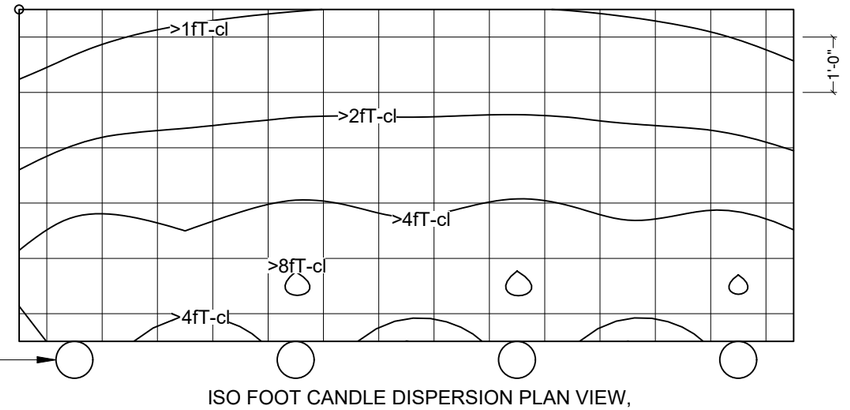
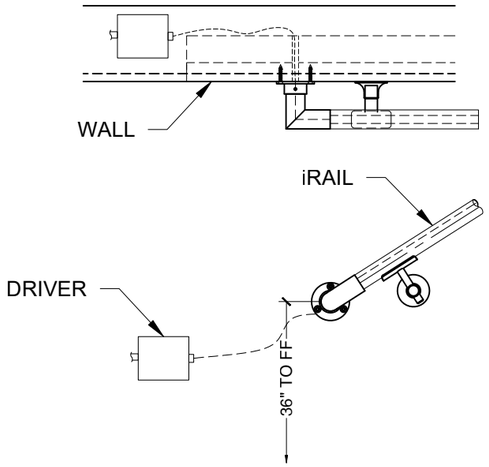


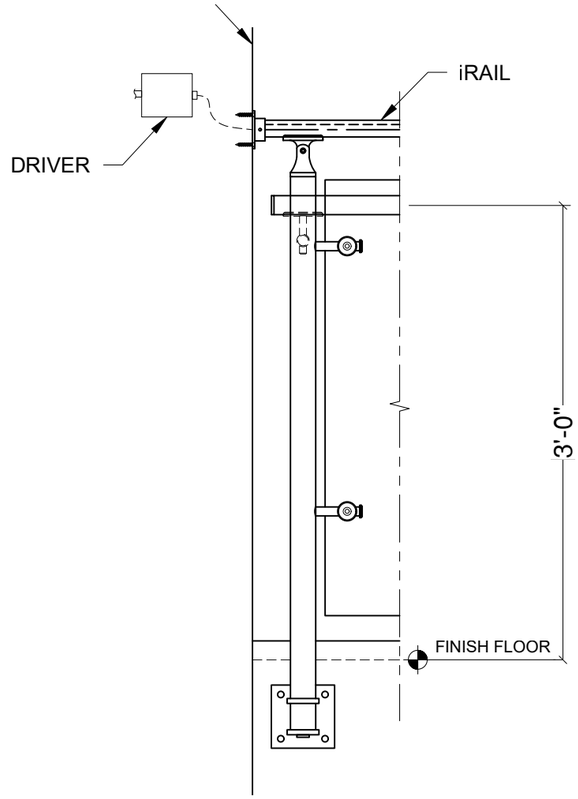
ISO FOOT CANDLE DISPERSION PLAN VIEW,
h (iRAIL HEIGHT)= 1'-0", w/ 385mm CAPSULE LENGTH (L)

WIRE FEED OPTION



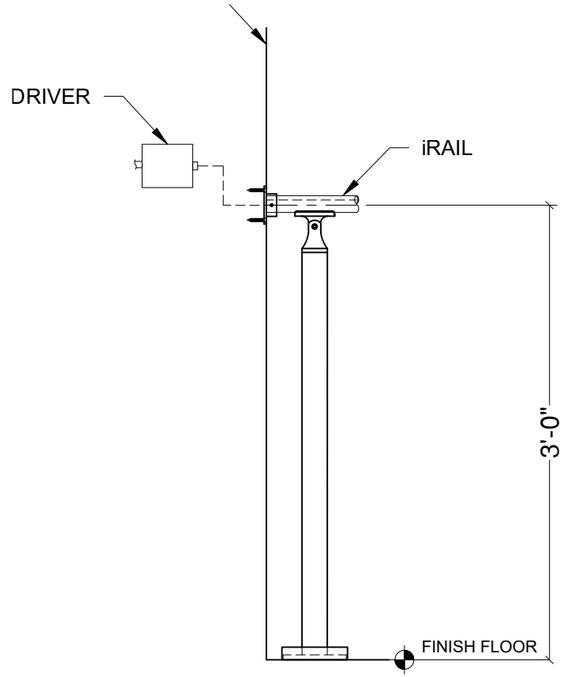
Illuminated WallRail

Detail# IR-W01



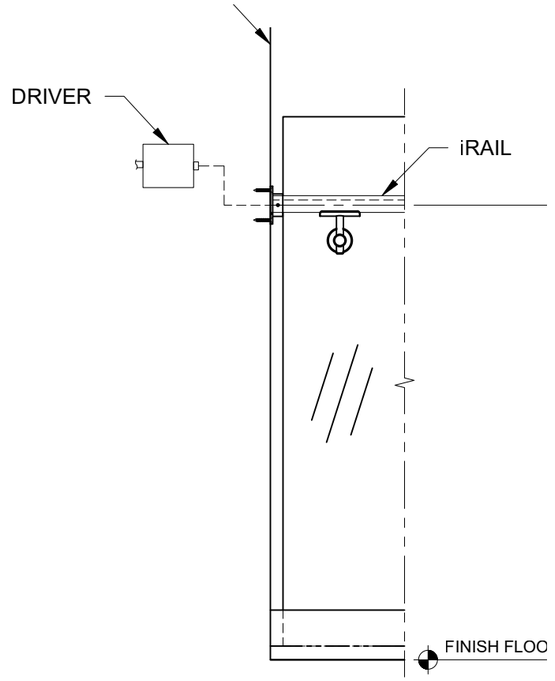
Illuminated Handrail or
Top Rail

Detail# IR-W02



Illuminated FSR

Detail# IR-W03



Illuminated Shoe Handrail

Detail# IR-W04

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

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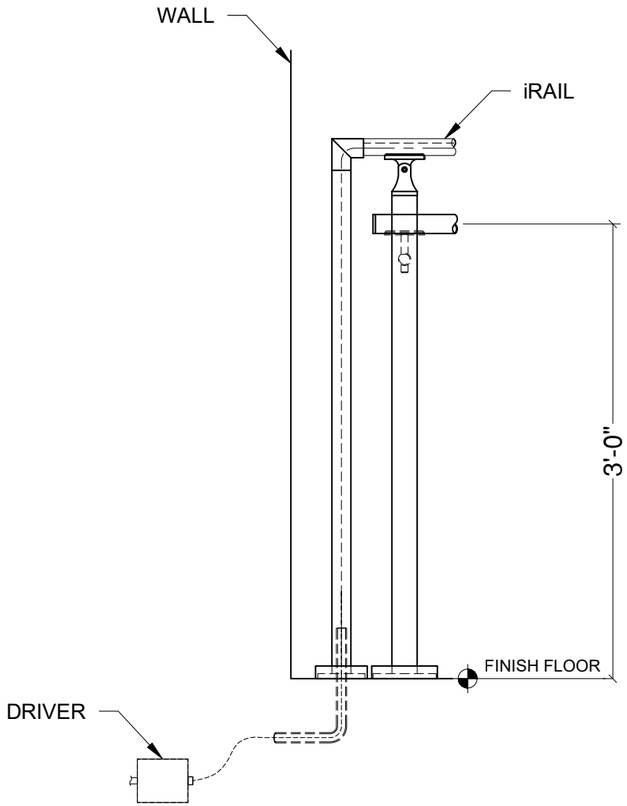
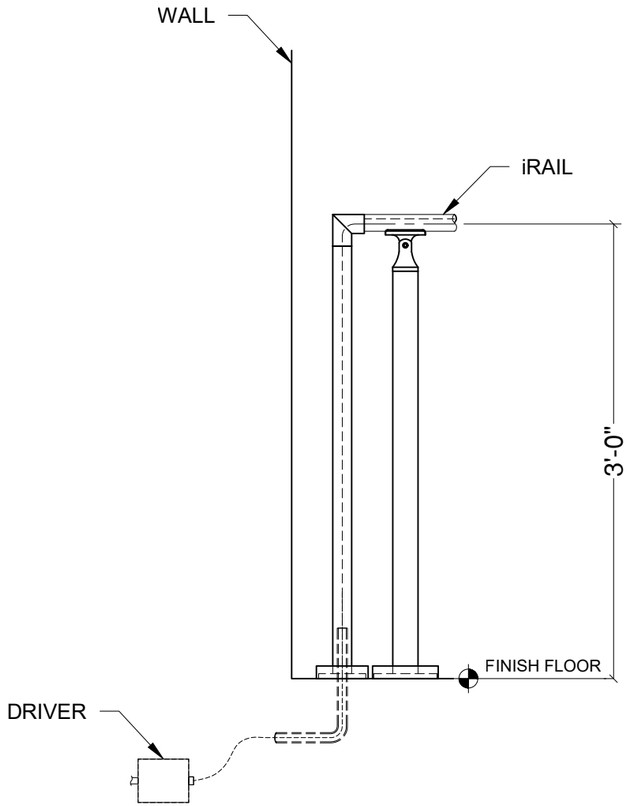
iRAIL LED SYSTEM

WIRE FEED OPTION



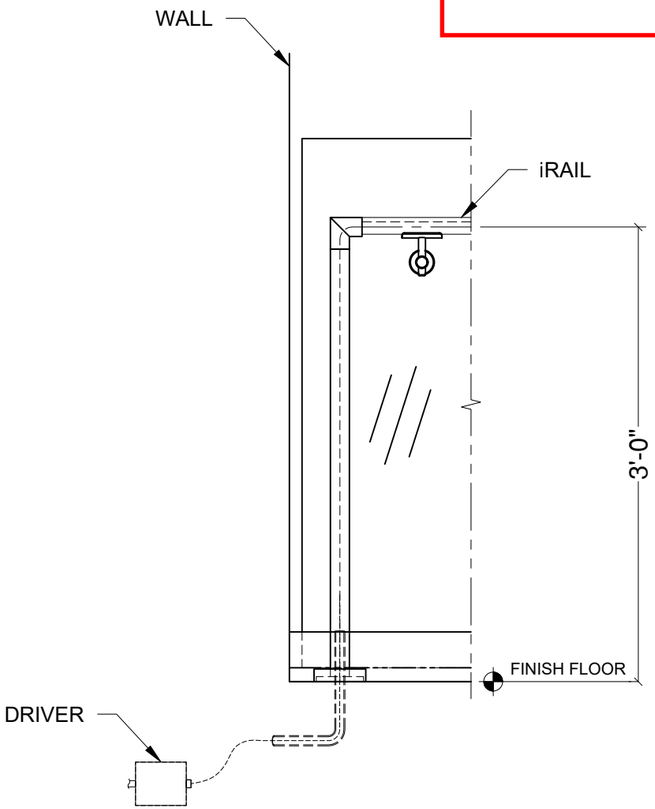
Illuminated Handrail or Top Rail

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.

iRAIL LED SYSTEM

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

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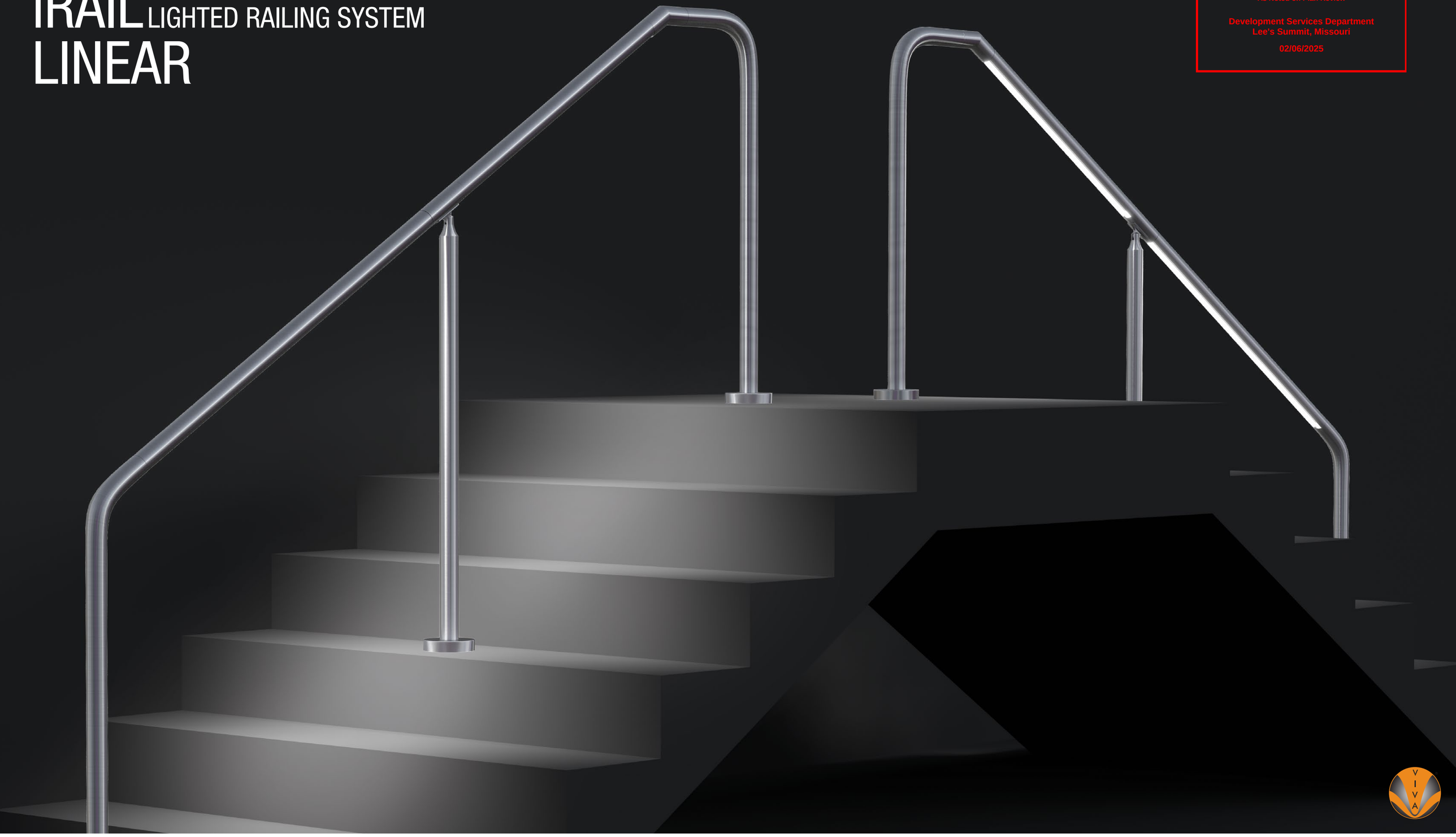
SMU MOODY HALL - DALLAS, TX

General Contractor: The Beck Group

Architect: Smithgroup Inc

iRAIL LIGHTED RAILING SYSTEM
LINEAR



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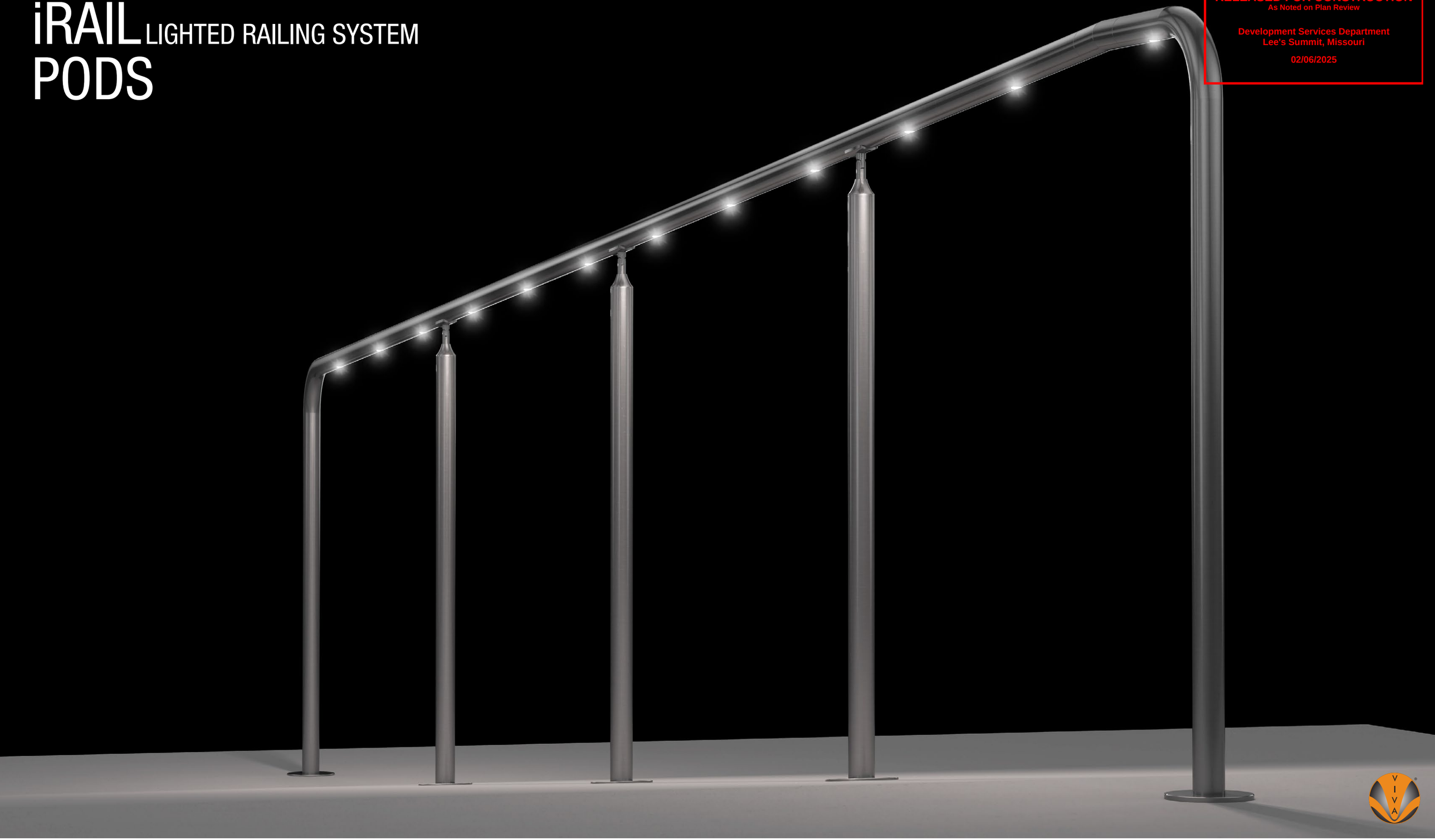
iRAIL LIGHTED RAILING SYSTEM
PODS



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

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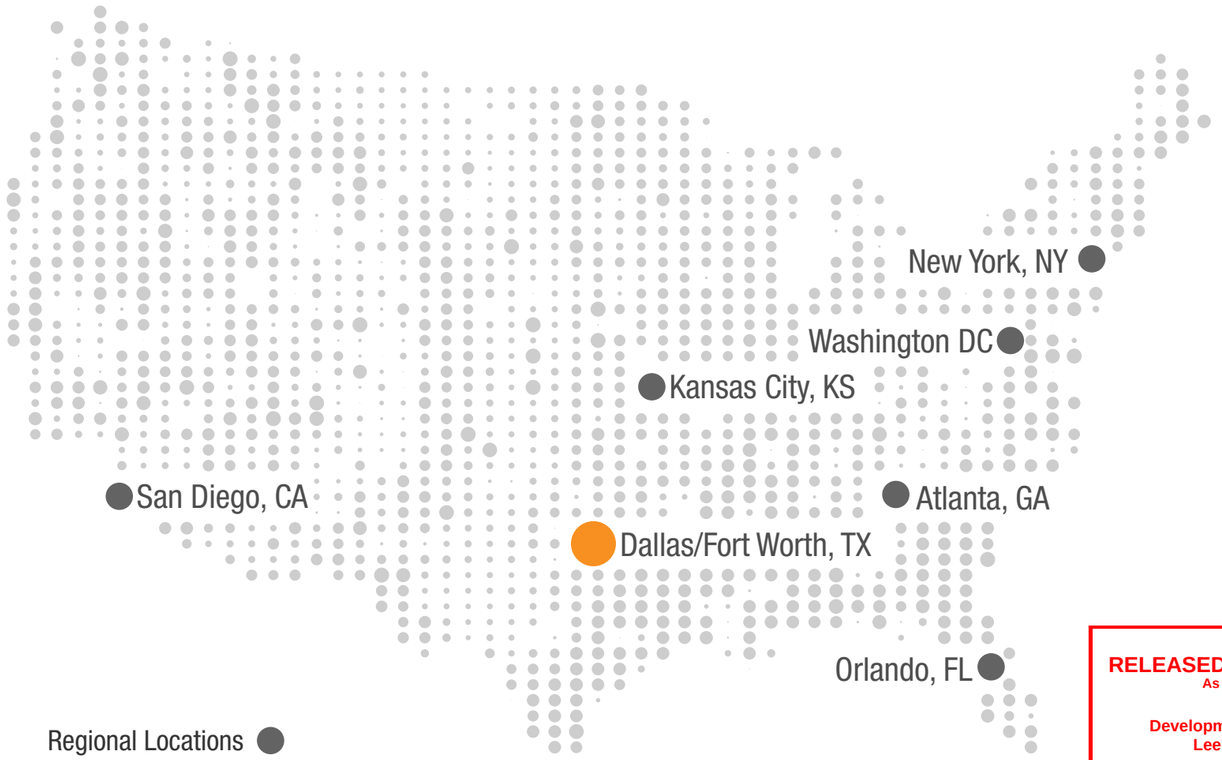
ANDRETTI / GRANDSCAPE - THE COLONY, TX

General Contractor: VCC Construction Corp.

Architect: Merriman - MAA Architects



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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

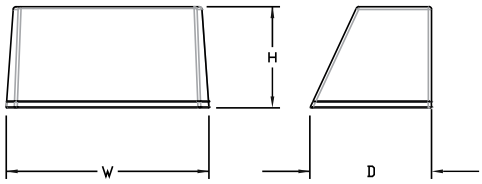
Luminaire

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

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See Accessories and Notes on next page.

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.

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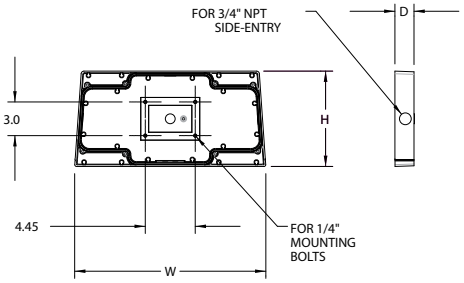
Optional Back Box (PBBW)

Height: 8.49″ *(21.56 cm)*

Width: 17.01″ *(43.21 cm)*

Depth: 1.70″ *(4.32 cm)*

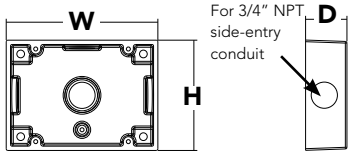


Optional Back Box (BBW)

Height: 4″ *(10.2 cm)*

Width: 5-1/2″ *(14.0 cm)*

Depth: 1-1/2″ *(3.8 cm)*



Emergency Battery Operation

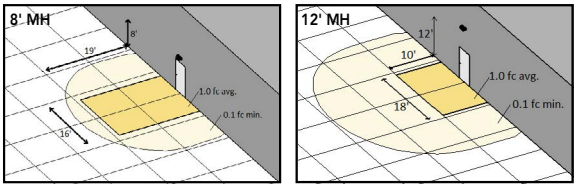
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

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

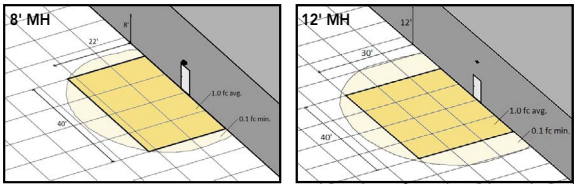
The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and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

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

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



WST LED P1 27K VF MVOLT E7WH



WST LED P2 40K VF MVOLT E20WH

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

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

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

Projected LED Lumen Maintenance

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

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

Electrical Load

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

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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

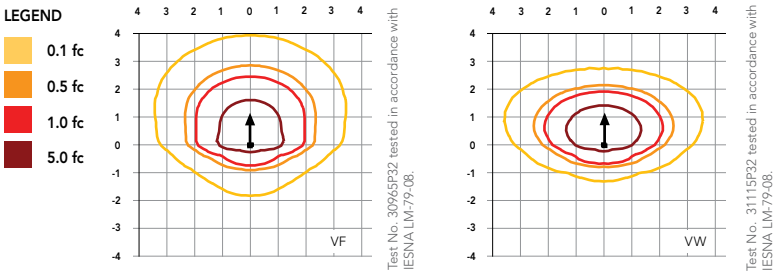
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

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

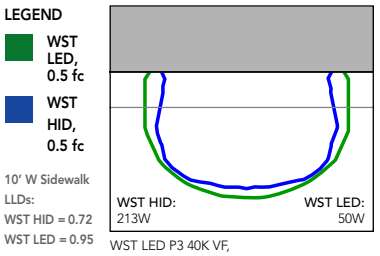
Photometric Diagrams

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

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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.