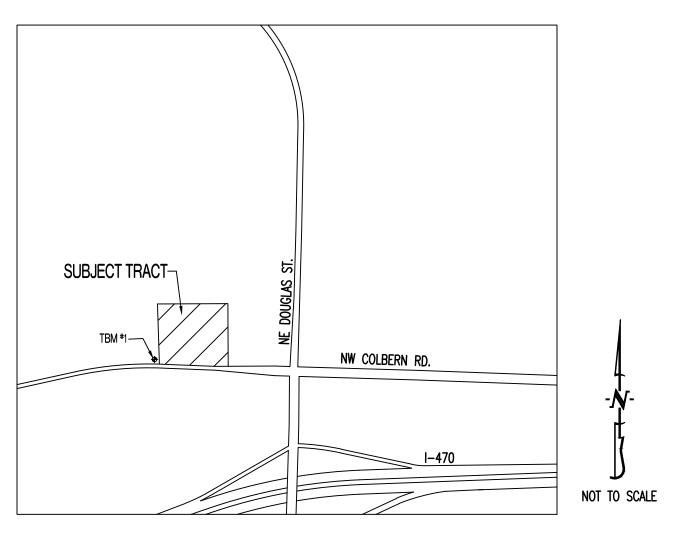
THE VILLAGE AT DISCOVERY LOTS 5-8

LOCATION MAP



PROJECT BENCHMARK:

TBM #1 — CONTROL POINT #50 SET BY OLSSON. 1/2" IMBEDDED CAP ON NORTH SIDE OF NW COLBERN RD. LOCATED AT 1ST FIELD ENTRANCE.

D AT 1ST FIELD ENTRANCE. NORTHING = 1012389.819

EASTING = 2822108.784 FI EVATION = 990.810

REFER TO "PRIVATE SITE DEVELOPMENT PLANS FOR THE VILLAGE AT DISCOVERY PARK ZONE 1" PLANS BY OLSSON DATED 10/18/2023 FOR MORE INFORMATION.

FLOOD PLAIN STATEMENT:

THIS LOT IS LOCATED IN ZONE X UNSHADED — AREAS DETERMINED TO BE OUTSIDE THE 1% ANNUAL CHANCE FLOOD AS SHOWN ON THE FEMA F.I.R.M. PANEL #29095C0409G, DATED JANUARY 20, 2017.

LEGAL DESCRIPTION:

VILLAGE AT DISCOVERY PARK, LOTS 5, 6, 7, & 8. A SUBDIVISION IN JACKSON COUNTY, LEE'S SUMMIT, MISSOURI.

UTILITY COMPANIES:

LOCATES:

MISSOURI ONE CALL INC.

1022 B NORTHEAST DRIVE
JEFFERSON CITY, MO 65109

1-800-344-7483



ELECTRIC: EVERGY 816-524-3223

WATER/SANITARY SEWER:

CITY OF LEE'S SUMMIT

1200 S HAMBLEN RD LEE'S SUMMIT, MO 64081

WATER UTILITIES DEPARTMENT

TELEPHONE:

AT&T 800-286-8313

NATURAL GAS: SPIRE 314-342-0500 816-969-1900

FIBER:

GOOGLE FIBER
877-454-6959

CABLE TELEVISION:
SPECTRUM
877-772-2253

GENERAL NOTES:

ALL STREET, STORM DRAIN, AND SANITARY SEWER CONSTRUCTION TO BE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT "DESIGN AND CONSTRUCTION MANUAL" (CURRENT EDITION).

ANY CITY DETAILS SHOWN ON THIS SET OF PLANS ARE FOR REFERENCE ONLY. CONTRACTOR TO HAVE A COPY OF THE CITY'S LATEST EDITION OF SPECIFICATIONS AND STANDARDS FOR ALL STREET, STORM, AND SANITARY CONSTRUCTION ON SITE AT ALL TIMES DURING CONSTRUCTION. REFER TO https://cityofls.net/development-services/design/design-criteria/design-construction-manual-infrastructure

CONTRACTOR WILL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF TRAFFIC CONTROL DEVICES NECESSARY TO COMPLETE THEIR PORTION OF WORK. THE DEVICES AND METHODS EMPLOYED WILL COMPLY WITH THE CURRENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL CONCRETE MATERIALS SHALL CONFORM TO KCMMB STANDARDS AND SPECIFICATIONS.

THIS PLAT CONTAINS APPROXIMATELY 4.83 ACRES.

THIS TRACT IS ZONED PMIX.

THE STORM SEWER NETWORK DESIGN FOR THIS PROJECT IS BASED ON OPEN CHANNEL FLOW; THEREFORE THE HYDRAULIC GRADE LINE IS AT OR LESS THAN THE CROWN OF THE PIPE.

EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATES (HORIZONTAL AND VERTICAL) PRIOR TO ANY EXCAVATION

ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.

A GEOTECHNICAL EVALUATION OF THE SUBSURFACE SOIL, GROUNDWATER CONDITIONS, AND A SLOPE STABILITY ANALYSIS HAS NOT BEEN PERFORMED BY THIS ENGINEER. THE OWNER SHALL SATISFY THEMSELVES OF ALL GEOTECHNICAL CONDITIONS PRIOR TO ANY CONSTRUCTION.

ALL LAND DISTURBANCE ACTIVITIES SHALL BE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT CODE OF ORDINANCES.

REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR NARRATIVE REPORT AND BMP DESCRIPTIONS AND DETAILS.

ALL SLOPES ARE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

IT IS THE INTENT OF THESE PLANS TO COMPLY WITH THE REQUIREMENTS OF THE MoDNR CLEAN WATER COMMISSION.

ALL DISTURBED AREAS WITHIN THE "LIMITS OF DISTURBANCE" SHALL BE FINE GRADED, SEEDED, AND MULCHED.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES AND REMOVING THEM ONCE THE SITE IS STABILIZED.

ALL HDPE PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL FOR PIPE BEDDING REQUIREMENTS.

IN ORDER TO TERMINATE A STATE OPERATING PERMIT THE MISSOURI DEPARTMENT OF NATURAL RESOURCES (MDNR) REQUIRES THAT THE PERMITTEE SUBMIT A COMPLETED FORM H (INCLUDED WITH THE APPROVAL PERMIT) TO THE MDNR. A PERMIT IS ELIGIBLE FOR TERMINATION WHEN EITHER PERENNIAL VEGETATION, PAVEMENT, BUILDINGS, OR STRUCTURES USING PERMANENT MATERIALS COVER ALL AREAS THAT HAVE BEEN DISTURBED. VEGETATIVE COVER SHALL BE AT LEAST 70% OF FULLY ESTABLISHED PLANT DENSITY OVER 100% OF THE DISTURBED AREA. A COPY OF FORM H SHOULD BE SUBMITTED TO THE CITY AT WHICH TIME THE CITY WILL REMOVE THE PROJECT FROM ITS INSPECTION SCHEDULE.

LAND DISTURBANCE SITES SHOULD BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 48 HOURS AFTER ANY STORM EVENT EQUAL TO OR GREATER THAN A 2-YEAR, 24-HOUR STORM HAS CEASED DURING A NORMAL WORK DAY OR WITHIN 72 HOURS IF THE RAIN EVENT CEASES DURING A NON-WORK DAY SUCH AS A WEEKEND OR HOLIDY. ANY DEFICIENCIES SHALL BE NOTED IN A WEEKLY REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE REPORT. CONTRACTORS ARE REQUIRED TO SUBMIT TO CITY INSPECTION STAFF COPIES OF THEIR INSPECTION REPORTS REQUIRED BY THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ON A MONTHLY BASIS IF REQUESTED.

NO OIL AND GAS WELLS EXIST ON THIS TRACT ACCORDING TO THE MISSOURI DEPARTMENT OF NATURAL RESOURCES OIL AND GAS PERMIT DATABASE

THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

TOTAL DISTURBED AREA ON SITE = 4.61 AC.

MISSOURI DNR LAND DISTURBANCE PERMIT NUMBER TBD.

DEVELOPER:

DISCOVERY PARK LEE'S SUMMIT, LLC. 4220 PHILLIPS FARM RD. COLUMBIA, MO 65201 573-615-2252

| SHEET NUMBER | SHEET TITLE | ORIGINAL 05/22/24 |
|--------------|--|----------------------|
| CE 1.0 | COVER SHEET | X |
| CE 1.1 | CIVIL SPECIFICATIONS | X |
| CE 2.1 | EROSION CONTROL PLAN | Х |
| CE 3.0 | OVERALL GRADING PLAN | Χ |
| CE 3.1 | GRADING PLAN SHEET 1 | Χ |
| CE 3.2 | GRADING PLAN SHEET 2 | Χ |
| CE 3.3 | GRADING PLAN SHEET 3 | Х |
| CE 3.4 | GRADING PLAN SHEET 4 | X |
| CE 3.5 | GRADING PLAN SHEET 5 | X |
| CE 3.6 | GRADING PLAN SHEET 6 | X |
| CE 4.1 | UTILITY PLAN SHEET 1 | X |
| CE 4.2 | UTILITY PLAN SHEET 2 | X |
| CE 5.1 | SANITARY PLAN & PROFILE & SANITARY DETAILS | Х |
| CE 6.1 | STORM PROFILE - LINES 1-6 | X |
| CE 6.2 | STORM PROFILE - LINES 7-9 & STORM DETAILS | X |
| CE 6.3 | STORM DETAILS | X |
| CE 6.4 | 25-YR STORM CALCULATIONS | X |
| CE 6.5 | 100-YR STORM CALCULATIONS | Χ |
| CE 7.1 | SITE PLAN SHEET 1 | Χ |
| CE 7.2 | SITE PLAN SHEET 2 | Χ |
| CE 8.1 | SITE DETAILS SHEET 1 | Χ |
| CE 8.2 | SITE DETAILS SHEET 2 | Х |
| CE 8.3 | LEE'S SUMMIT SITE DETAILS | Х |
| CE 8.4 | LEE'S SUMMIT UTILITY DETAILS | Х |
| CE 9.1 | LANDSCAPING PLAN | X |

LEGEND OF SYMBOLS:

= = = = Existing curb

| | EXISTING CORD | ΓΓ-ΛΛΛ.Λ | FINISHED FLOOR OF STRUCTURE |
|----------------|-------------------------------------|---------------------|---------------------------------------|
| | PROPOSED CURB | (XXX.XX TC) | PROPOSED TOP OF CURB ELEVATION |
| | RIP RAP | (XXX.XX TP) | PROPOSED TOP OF PAVEMENT ELEVATION |
| | EXISTING STRUCTURE | (XXX.XX FG) | PROPOSED FINISHED GRADE ELEVATION |
| ~~~~~ | EXISTING TREELINE | (XXX.XX TW) | PROPOSED TOP OF WALL |
| ~~~~ | PROPOSED TREELINE | XX | LOT NUMBER |
| 000 | EDGE OF WATERWAY | | |
| — — w — — | EXISTING WATERLINE | $\langle X \rangle$ | STORM SEWER STRUCTURE LABEL |
| ——— w ——— | PROPOSED WATERLINE | V | CANITADY COMED CONTACTUDE LADEL |
| —— G —— | EXISTING GAS LINE | (X) | SANITARY SEWER STRUCTURE LABEL |
| G | PROPOSED GAS LINE | H.P. | HIGH POINT |
| — — — T — — — | EXISTING TELEPHONE | L.P. | LOW POINT |
| — — — F0 — — — | EXISTING FIBER OPTIC | - 0 | EXISTING SIGNS |
| —— OE —— | EXISTING OVERHEAD ELECTRIC | Ø | EXISTING POWER POLE |
| UE $$ | EXISTING UNDERGROUND ELECTRIC | €V | EXISTING GAS VALVE |
| ——— UE ——— | PROPOSED UNDERGROUND ELECTRIC | \bowtie | EXISTING WATER VALVE |
| —— OETV —— | EXISTING OVERHEAD ELEC. & TV | © | EXISTING GAS METER |
| — — OETVT — — | EXISTING OVERHEAD ELEC., TV & TELE. | W | EXISTING WATER METER |
| s | EXISTING SANITARY SEWER | A | EXISTING FIRE HYDRANT |
| —— s —— | PROPOSED SANITARY SEWER | ♥ | MANHOLE |
| ·····XXX······ | EXISTING MINOR CONTOUR | - → | EXISTING SANITARY SEWER LATERAL |
| $ \! XXX$ | EXISTING MAJOR CONTOUR | | PROPOSED SANITARY SEWER LATERAL |
| XXX | PROPOSED MINOR CONTOUR | ® | PROPOSED TRACER WIRE TEST STATION BOX |
| XXX | PROPOSED MAJOR CONTOUR | AC | EXISTING AIR CONDITIONER |
| | 100 YEAR FLOOD PLAIN | T | EXISTING TELEPHONE PEDESTAL |
| | FLOODWAY | <u></u> | EXISTING FLEETRICAL TRANSFORMER |
| ·· | ORDINARY HIGH WATER MARK | E | EXISTING ELECTRIC METER |
| | STREAM SIDE BUFFER | ¤ | EXISTING LIGHT POLE |
| | OUTER STREAM BUFFER | | |
| | | \rightarrow | EXISTING GUY WIRE |

FINISHED FLOOR OF STRUCTURE

REVISIONS:

NO. DATE
ORIGINAL 05/22/2024

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

NATHAN THOMAS

NATHAN THOMAS

NATHAN THOMAS

NATHAN THOMAS

NATHAN THOMAS ECKHOFF

MO LICENSE-2003014960

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Crockett Engineering Consultants, LLC

DISCOVERY PARK LEES SUMMIT LLC 4220 PHILLIPS FARM RD COLUMBIA, MO 65201

HE VILLAGE AT DISCOVEF LOTS 5-8
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

COVER SHEET

DESIGNED: NTE
DRAWN: NMD

PROJECT NO.: 230286

1: CE 1.0 CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS REGARDING MATERIALS, METHODS OF WORK, AND DISPOSAL OF EXCESS WASTE MATERIALS.

ERECT BARRIERS TO PROTECT PERSONNEL, STRUCTURES AND UTILITIES REMAINING INTACT.

PROTECT ALL EXISTING OBJECTS INTENDED TO REMAIN. IN CASE OF DAMAGE, MAKE REPAIRS OR REPLACEMENTS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.

MINIMIZE INTERFERENCE WITH ROADS, STREETS, DRIVEWAYS, SIDEWALKS, AND ADJACENT FACILITIES.

DO NOT CLOSE OR OBSTRUCT STREETS, SIDEWALKS, ALLEYS OR PASSAGEWAYS WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION.

IF CLOSURE IS PERMITTED, PROVIDE SIGNAGE INDICATING CLOSURE AND SIGNAGE TO DIRECT TRAFFIC TO ALTERNATE ROUTE.

MOISTEN SURFACES AS REQUIRED TO PREVENT DUST FROM BEING A NUISANCE TO THE PUBLIC, NEIGHBORS, AND CONCURRENT PERFORMANCE OF OTHER WORK ON THE SITE.

PROVIDE THE OWNER'S REPRESENTATIVE A MINIMUM OF TWO BUSINESS DAYS' NOTICE PRIOR TO COMMENCING WORK OF THIS SECTION.

THE CONTRACTOR SHALL LOCATE EXISTING UTILITY LINES AND SERVICES TRAVERSING THE SITE AND DETERMINE THE REQUIREMENTS FOR THEIR PROTECTION. THE CONTRACTOR SHALL PRESERVE ACTIVE UTILITIES ON THE SITE THAT ARE DESIGNATED TO REMAIN.

BEFORE STARTING SITE OPERATIONS, THE CONTRACTOR SHALL DISCONNECT OR ARRANGE FOR THE DISCONNECTION OF ALL UTILITY SERVICES DESIGNATED TO BE REMOVED. THE CONTRACTOR SHALL PERFORM ALL SUCH WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY OR AGENCY INVOLVED

IN REMOVING PAVEMENT, CURB AND GUTTER, SIDEWALKS, ETC., WHERE A PORTION IS LEFT IN PLACE, REMOVAL SHALL BE TO AN EXISTING JOINT OR TO A JOINT SAWED TO A MINIMUM DEPTH OF 2" WITH A TRUE SAW LINE AND A VERTICAL FACE. REMOVE SUFFICIENT PAVEMENT TO PROVIDE FOR PROPER GRADE AND CONNECTIONS IN THE NEW WORK REGARDLESS OF ANY LIMITS INDICATED ON THE DRAWING.

EXISTING CASTINGS AND CULVERTS, IF SALVAGEABLE AND REMOVED INTACT, REMAIN THE PROPERTY OF THE CONTRACTOR.

ALL SEWERS AND DRAINAGE PIPES, WHICH HAVE BEEN OR ARE TO BE ABANDONED, SHALL BE PERMANENTLY SEALED AT THE ENDS WITH BULKHEADS CONSTRUCTED OF CONCRETE, HAVING A MINIMUM THICKNESS OF 8".

ABANDON STORM OR SANITARY SEWER STRUCTURES BY BREAKING THE CONCRETE BOTTOM OF THE STRUCTURE INTO PIECES NO LARGER THAN 12" IN ANY DIRECTION AND REMOVING THE TOP OF THE STRUCTURE TO 3" BELOW FINISHED GRADE. PLUG ALL PIPES WITH CONCRETE AND FILL STRUCTURE WITH 1" CLEAN GRAVEL.

ALL DEBRIS SHALL BE DISPOSED OF OFF-SITE

DO NOT STORE OR BURN MATERIALS ON-SITE UNLESS PERMITTED BY THE GOVERNING JURISDICTION.

ALL ASPHALT OR CONCRETE MATERIALS SHALL BE DISPOSED OF OFF-SITE.

MATERIAL ACQUIRED THROUGH DEMOLITION, OTHER THAN THOSE REQUIRED TO COMPLETE THE CONSTRUCTION PROJECT AND DESIGNATED FOR RETURN TO OWNER, WILL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REMOVED FROM THE SITE. THE MATERIAL WILL BE DISPOSED OF IN A

THE CONTRACTOR'S OPERATIONS SHALL BE RESTRICTED TO THOSE AREAS INSIDE THE CONSTRUCTION LIMITS INDICATED ON THE DRAWINGS. IF LIMITS ARE NOT INDICATED, RESTRICT WORK TO THE OWNER'S PROPERTY, EASEMENT, OR PUBLIC RIGHTS-OF-WAY.

COMPLETE WORK WITHIN PUBLIC RIGHTS-OF-WAY UNDER THE PERMISSION OF THE GOVERNING AGENCY.

IF ITEMS OUTSIDE THE LIMITS OF DISTURBANCE GET DAMAGED, OWNER COMPLETES THE REQUIRED REPAIRS AND CHARGES THE CONTRACTOR.

THE CONTRACTOR IS RESPONSIBLE FOR THE ADJUSTMENT OF ALL MANHOLES, CASTINGS, WATER VALVES IRRIGATION BOXES, CLEAN OUTS AND ETC. WITHIN THE GRADING LIMITS TO MATCH THE FINISHED SURFACE. ADJUSTMENTS SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND THE COST FOR ALL ADJUSTMENTS SHALL BE INCIDENTAL TO CONSTRUCTION UNLESS NOTED AS A BID ITEM. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO UTILITY STRUCTURES AND APPURTENANCES THAT OCCURS DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

CONTRACTOR TO SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.

TEST REPORTS: SUBMIT FOR APPROVAL TEST REPORTS, LIST OF MATERIALS AND GRADATIONS PROPOSED FOR USE. OBTAIN SAMPLES OF ANY PROPOSED FILL MATERIAL AND CONTRACTOR TO PROVIDE STANDARD PROCTOR TEST REPORTS TO ENGINEER.

COMPACTION REQUIREMENTS ARE AS FOLLOWS:

UNDER STEPS, PAVEMENTS, AND WALKWAYS, 95 PERCENT STANDARD PROCTOR MINIMUM DENSITY, ASTM D 698.

2. UNDER LAWNS OR UNPAVED AREAS, 85 PERCENT, ASTM D 698. GRADING TOLERANCES OUTSIDE BUILDING LINES ARE AS FOLLOWS:

1. LAWNS, UNPAVED AREAS, AND WALKS, PLUS OR MINUS 1 INCH.

PAVEMENTS, PLUS OR MINUS 1/2 INCH. 3. ALL ADA ROUTES AND PARKING ARE TO MEET ADA REQUIREMENTS AT ALL TIMES.

ALL ACTIVITIES WILL BE CONTAINED WITHIN CONSTRUCTION BOUNDARIES INDICATED ON SITE PLAN. SPECIFIED EXCAVATION REQUIREMENTS, PRECAUTIONS, AND PROTECTIVE SYSTEMS WILL BE OBSERVED AT ALL TIMES.

MOVEMENT OF TRUCKS AND EQUIPMENT ON OWNER'S PROPERTY WILL BE IN ACCORDANCE WITH OWNER'S INSTRUCTIONS.

TOPSOIL WILL BE STRIPPED FROM THE CONSTRUCTION SITE AND WILL BE DISPOSED OF LEGALLY OFF SITE.

TRENCHES WILL NOT BE BACKFILLED UNTIL ALL REQUIRED TESTS ARE COMPLETED AND THE UTILITY SYSTEMS, AS INSTALLED, CONFORM TO REQUIREMENTS SPECIFIED BY THE CONTRACT DOCUMENTS.

EXCAVATION IS UNCLASSIFIED AND INCLUDES EXCAVATION TO SUBGRADE REGARDLESS OF MATERIALS ENCOUNTERED. REPAIR EXCAVATIONS BEYOND

ELEVATIONS AND DIMENSIONS INDICATED AS FOLLOWS: AT STRUCTURE: CONCRETE OR COMPACTED STRUCTURAL FILL. ELSEWHERE: BACKFILL AND COMPACT AS DIRECTED.

MAINTAIN STABILITY OF EXCAVATIONS; CONTRACTOR TO BE RESPONSIBLE FOR DESIGN AND COORDINATION OF SHORING AND BRACING AS REQUIRED. PREVENT SURFACE AND SUBSURFACE WATER FROM ACCUMULATING IN EXCAVATIONS. STOCKPILE SATISFACTORY MATERIALS FOR REUSE, ALLOW FOR PROPER DRAINAGE AND DO NOT STOCKPILE MATERIALS WITHIN DRIP LINE OF TREES TO REMAIN.

COMPACT MATERIALS AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 698 BY AERATION OR WETTING TO THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY:

1. STRUCTURE, PAVEMENT, WALKWAYS: SUBGRADE AND EACH FILL LAYER TO 95% (-2%+4%) OF STANDARD PROCTOR MAXIMUM DRY DENSITY TO SUITABLE DEPTH. COMPACTION TESTING SHALL BE PERFORMED IMMEDIATELY PRIOR TO THE PLACEMENT OF REINFORCING STEEL AND NEW PAVING MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING TESTING WITH OWNERS DESIGNATED TESTING AGENCY.

UNPAVED AREAS: TOP 6" OF SUBGRADE AND EACH FILL LAYER TO 90% MAXIMUM DRY DENSITY. A PROOF-ROLL SHALL BE REQUIRED OF THE SUBGRADE PRIOR TO PLACEMENT OF THE BASE COURSE. PROOF ROLLING SHALL CONSIST OF PASSING A LOADED, 20-TON, TANDEM DUMP TRUCK OVER THE PREPARED SUBGRADE SOIL WITH A MAXIMUM ALLOWABLE DISPLACEMENT OF 1". ANY AREAS THAT DISPLACE MORE THAN 1" SHALL BE COMPACTED UNTIL THIS CRITERION IS MET, OR THOSE AREAS MAY BE EXCAVATED AND BACKFILLED WITH COMPACTED TYPE 1 AGGREGATE USED FOR BASE MATERIAL. ALL PROOF ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.

4. CUT AREAS UNDER PROPOSED ASPHALT OR CONCRETE PAVEMENTS SHALL BE CUT AND COMPACTED. AFTER GRADING TO SUBGRADE ELEVATION, SCARIFY THE TOP SIX INCHES OF THE SUB-BASE AND COMPACT AS OUTLINED ABOVE.

PLACE ACCEPTABLE MATERIALS IN LAYERS NOT MORE THAN 8" LOOSE DEPTH FOR MATERIALS COMPACTED BY HEAVY EQUIPMENT AND NOT MORE THAN 4" LOOSE DEPTH FOR MATERIALS COMPACTED BY HAND EQUIPMENT TO SUBGRADES INDICATED AS FOLLOWS: STRUCTURAL FILL: USE UNDER FOUNDATIONS, SLABS ON GRADE IN LAYERS AS INDICATED.

DRAINAGE FILL: USE UNDER DESIGNATED BUILDING SLABS, AT FOUNDATION DRAINAGE AND ELSEWHERE AS INDICATED. LANDSCAPE AREA FILL:

3.1. ALL SUB-GRADE AREAS SHALL BE "RIPPED" TO A MINIMUM 6" DEEP AND A MAXIMUM OF 12" APART IN OPPOSITE DIRECTIONS WITH MINIMAL TIRE TRAFFIC TO FOLLOW.

CONTRACTOR TO LEAVE AREAS 6" OR 18" (PLANTER AREAS) BELOW FINISH GRADE. OWNER TO PLACE TOPSOIL AND ALL PLANTINGS. ANY FILL SOIL WITHIN 36" OF FINISHED GRADE IN LAWN AND PLANTER AREAS SHALL BE COHESIVE SOILS IN SOIL CLASSIFICATIONS GROUPS ML, CL, CH OR A COMBINATION THEREOF, FREE OF ROCK OR GRAVEL LARGER THAN 1" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIAL, VEGETATION AND OTHER DELETERIOUS MATTER. 4. SUB-BASE MATERIAL: USE UNDER PAVEMENT, WALKS, STEPS, PIPING AND CONDUIT.

GRADE TO WITHIN 1/2" ABOVE OR BELOW REQUIRED SUBGRADE AND WITHIN A TOLERANCE OF 1/2" IN 10'.

PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION. RECOMPACT AND REGRADE SETTLED, DISTURBED AND DAMAGED AREAS AS NECESSARY TO RESTORE QUALITY, APPEARANCE, AND CONDITION OF WORK

CONTROL EROSION TO PREVENT RUNOFF INTO SEWERS OR DAMAGE TO SLOPED OR SURFACED AREAS.

CONTROL DUST TO PREVENT HAZARDS TO ADJACENT PROPERTIES AND VEHICLES. IMMEDIATELY REPAIR OR REMEDY DAMAGE CAUSED BY DUST INCLUDING AIR FILTERS IN EQUIPMENT AND VEHICLES. CLEAN SOILED SURFACES.

PRE-APPROVED LOCATION IS BEING PROVIDED BY THE OWNER.

DISPOSAL OF EXCAVATION WASTE AND UNSUITABLE MATERIALS SHALL BE THE RESPONSIBILITY OF THE SITE WORK CONTRACTOR. NO SPECIFIC OR

CONCRETE:

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE. WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

1. CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH: CAST-IN-PLACE WALLS 3 500 PSI 4,000 PSI

FLOOR SLAB EXTERIOR SLARS WALLS AND CURRS 4,000 PSI 2. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.

3. CHLORIDE- BASED ADMIXTURES ARE PROHIBITED IN ALL CONCRETE. 4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.

5. ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION

6. CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE 7. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C- 143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8' FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN

8. CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%. 9. SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED

AND ARE ACCEPTABLE TO THE ENGINEER. 10. READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.

11. CONCRETE WORK EXECUTION A. CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS. B. POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE,

UNLESS NOTED OTHERWISE ON THE DRAWINGS: CAST AGAINST AND EXPOSED TO EARTH.......3 INCHES EXPOSED TO EARTH OR WEATHER......2 INCHES

NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH......1 ½ INCHES C. PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL

JOINTS MINIMUM 1/4 OF SLAB DEPTH. AS SOON AFTER SLAB FINISHING WITHOUT DISLODGING AGGREGATE. D. STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.

E. CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING. 12. FLINT AND CHERT WILL BE LIMITED TO 1% MAXIMUM, BY WEIGHT OF THE COURSE AGGREGATE, IN ALL EXPOSED CONCRETE

(CAST-IN-PLACE OR PRECAST). LIGNITE WILL BE LIMITED TO 0.5%, BY WEIGHT OF THE FINE AGGREGATE IN ALL EXPOSED CONCRETE. SOME APPLICATIONS MAY BE REQUIRED TO BE LIGNITE FREE.

CONCRETE PAVING JOINT SEALANTS:

DELIVER MATERIALS TO PROJECT SITE IN ORIGINAL UNOPENED CONTAINERS OR BUNDLES WITH LABELS INDICATING MANUFACTURER, PRODUCT NAME AND DESIGNATION, COLOR, EXPIRATION DATE, POT LIFE, CURING TIME, AND MIXING INSTRUCTIONS FOR MULTICOMPONENT MATERIALS.

STORE AND HANDLE MATERIALS TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS TO PREVENT THEIR DETERIORATION OR DAMAGE DUE TO MOISTURE, HIGH OR LOW TEMPERATURES, CONTAMINANTS, OR OTHER CAUSES.

DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS UNDER THE FOLLOWING CONDITIONS:

1. WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE LIMITS PERMITTED BY JOINT SEALANT MANUFACTURER OR ARE BELOW 40 DEG F.

2. WHEN JOINT SUBSTRATES ARE WET OR COVERED WITH FROST.

3. WHERE JOINT WIDTHS ARE LESS THAN THOSE ALLOWED BY JOINT—SEALANT MANUFACTURER FOR APPLICATIONS INDICATED.

4. WHERE CONTAMINANTS CAPABLE OF INTERFERING WITH ADHESION HAVE NOT YET BEEN REMOVED FROM JOINT SUBSTRATES.

PROVIDE JOINT SEALANTS, BACKING MATERIALS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY JOINT-SEALANT MANUFACTURER BASED ON TESTING

COLD-APPLIED JOINT SEALANTS ARE TO BE TYPE NS SILICONE SEALANT FOR CONCRETE: SINGLE-COMPONENT, LOW-MODULUS, NEUTRAL-CURING, NONSAG SILICONE SEALANT COMPLYING WITH ASTM D 5893 FOR TYPE NS. PRODUCTS ALLOWED ARE: CRAFCO INC.: ROADSAVER SILICONE, DOW CORNING CORPORATION; 888, PECORA NS 301, OR APPROVED EQUAL

CONTRACTOR TO PROVIDE JOINT-SEALANT BACKER MATERIALS THAT ARE NONSTAINING; ARE COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS, AND OTHER JOINT FILLERS; AND ARE APPROVED FOR APPLICATIONS INDICATED BY JOINT-SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LABORATORY TESTING. ROUND BACKER RODS FOR COLD-APPLIED SEALANTS: ASTM D 5249, TYPE 3, OF DIAMETER AND DENSITY REQUIRED TO CONTROL SEALANT DEPTHAND PREVENT BOTTOM-SIDE ADHESION OF SEALANT.

PRIOR TO JOINT INSTALLATION, CONTRACTOR IS TO EXAMINE JOINTS INDICATED TO RECEIVE JOINT SEALANTS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR JOINT CONFIGURATION, INSTALLATION TOLERANCES, AND OTHER CONDITIONS AFFECTING JOINT- SEALANT PERFORMANCE. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

CLEAN OUT JOINTS IMMEDIATELY BEFORE INSTALLING JOINT SEALANTS TO COMPLY WITH JOINT-SEALANT MANUFACTURER'S WRITTEN INSTRUCTIONS.

COMPLY WITH JOINT-SEALANT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR PRODUCTS AND APPLICATIONS INDICATED. UNLESS MORE STRINGENT REQUIREMENTS APPLY.

COMPLY WITH RECOMMENDATIONS IN ASTM C 1193 FOR USE OF JOINT SEALANTS AS APPLICABLE TO MATERIALS, APPLICATIONS, AND CONDITIONS INDICATED.

INSTALL BACKER MATERIALS OF TYPE INDICATED TO SUPPORT SEALANTS DURING APPLICATION AND AT POSITION REQUIRED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS OF INSTALLED SEALANTS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY. DO NOT LEAVE GAPS BETWEEN ENDS OF BACKER MATERIALS. DO NOT STRETCH, TWIST, PUNCTURE, OR TEAR BACKER MATERIALS. REMOVE ABSORBENT BACKER MATERIALS THAT HAVE BECOME WET BEFORE SEALANT APPLICATION AND REPLACE THEM WITH DRY MATERIALS.

NSTALL SEALANTS USING PROVEN TECHNIQUES THAT COMPLY WITH THE FOLLOWING AND AT THE SAME TIME BACKING ARE INSTALLED:

1. PLACE SEALANTS SO THEY DIRECTLY CONTACT AND FULLY WET JOINT SUBSTRATES.

2. COMPLETELY FILL RECESSES PROVIDED FOR EACH JOINT CONFIGURATION.

3. PRODUCE UNIFORM, CROSS-SECTIONAL SHAPES AND DEPTHS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT MOVEMENT

IMMEDIATELY AFTER SEALANT APPLICATION AND BEFORE SKINNING OR CURING BEGINS, TOOL SEALANTS ACCORDING TO REQUIREMENTS SPECIFIED BELOW TO FORM SMOOTH, UNIFORM BEADS OF CONFIGURATION INDICATED; TO ELIMINATE AIR POCKETS; AND TO ENSURE CONTACT AND ADHESION OF SEALANT WITH SIDES OF JOINT. REMOVE EXCESS SEALANTS FROM SURFACES ADJACENT TO JOINT.USE TOOLING AGENTS THAT ARE APPROVED IN WRITING BY JOINT-SEALANT MANUFACTURER AND THAT DO NOT DISCOLOR SEALANTS OR ADJACENT SURFACES.

PROVIDE JOINT CONFIGURATION TO COMPLY WITH JOINT-SEALANT MANUFACTURER'S WRITTEN INSTRUCTIONS, UNLESS OTHERWISE INDICATED.

PROVIDE RECESSED JOINT CONFIGURATION FOR SILICONE SEALANTS OF RECESS DEPTH AND AT LOCATIONS INDICATED.

CLEAN OFF EXCESS SEALANTS OR SEALANT SMEARS ADJACENT TO JOINTS AS THE WORK PROGRESSES BY METHODS AND WITH CLEANING MATERIALS APPROVED BY MANUFACTURERS OF JOINT SEALANTS AND OF PRODUCTS IN WHICH JOINTS OCCUR.

PROTECT JOINT SEALANTS DURING AND AFTER CURING PERIOD FROM CONTACT WITH CONTAMINATING SUBSTANCES AND FROM DAMAGE RESULTING FROM CONSTRUCTION OPERATIONS OR OTHER CAUSES SO SEALANTS ARE WITHOUT DETERIORATION OR DAMAGE AT TIME OF SUBSTANTIAL COMPLETION. IF, DESPITE SUCH PROTECTION, DAMAGE OR DETERIORATION OCCURS, CUT OUT AND REMOVE DAMAGED OR DETERIORATED JOINT SEALANTS IMMEDIATELY AND REPLACE WITH JOINT SEALANT SO INSTALLATIONS WITH REPAIRED AREAS ARE INDISTINGUISHABLE FROM THE ORIGINAL WORK.

PAVEMENT MARKING

PAINT FOR PARKING LOT STRIPING SHALL BE CHLORINATED RUBBER CONFORMING TO TT-P11SF EPOXY PAVEMENT MARKING MATERIAL WITHOUT GLASS BEADS. PAINT TYPE MUST BE COMPATIBLE WITH THE SURFACES TO BE PAINTED

PAINT SHALL BE APPLIED PER THE FOLLOWING COLOR CODE: WHITE FOR STANDARD PARKING SPACE LINES AND SIDEWALK CROSSINGS. BLUE

FOR ACCESSIBLE PARKING STALL AND SYMBOLS AND ASSOCIATED CROSS—HATCHED AREAS

MATERIALS SHALL INCLUDE STANDARD COMMERCIAL GRADE MASKING MATERIALS, SCRAPERS, CLEANING SOLVENTS, AND OTHER MATERIALS REQUIRED FOR THE WORK. USE MATERIALS SPECIFIED BY MANUFACTURER'S DIRECTION LABEL ON CONTAINER.

DELIVER MATERIALS TO THE SITE IN ORIGINAL CONTAINERS WITH SEALS UNBROKEN AND LABELS INTACT. PROTECT ALL PAINT FROM FREEZING. DO NOT ALLOW PAINT TO SETTLE, CAKE, OR THICKEN IN THE CONTAINER. READILY STIR WITH A PADDLE TO A SMOOTH CONSISTENCY. PAINT SHALL ARRIVE ON THE JOB COLOR-MIXED EXCEPT FOR TINTING OF UNDERCOATS AND POSSIBLE THINNING.

PRIOR TO BEGINNING CLEANING OR PAINTING OPERATIONS, CONTRACTOR SHALL PROTECT ALL ITEMS OR SURFACES NOT INCLUDED IN AREA TO BE PAINTED. PROTECT VEHICLES, EQUIPMENT, STRUCTURES, OR OTHER ITEMS FROM PAINT SPATTERS, OVER SPRAY, OR DAMAGE.

CONTRACTOR SHALL PROVIDE BARRICADES AND ANY SIGNAGE NEEDED TO PROTECT ALL PAINTED AREAS FROM PEDESTRIAN AND VEHICULAR TRAFFIC UNTIL ACHIEVING SUFFICIENT DRYING TIME.

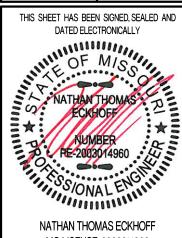
PERFORM PAINTING AS SOON AS FEASIBLE AND PRACTICAL AFTER THE FINISHING OF THE PAVEMENT OR AS DIRECTED BY THE OWNERS REPRESENTATIVE. ADEQUATE LIGHTING SHALL BE AVAILABLE AT THE TIME OF PAINTING. EXAMINE ALL SURFACES TO RECEIVE PAINT TO MAKE SURE THERE ARE NO DEFECTS IN THE SURFACE TO BE STRIPED. DO NOT PAINT OVER RUST, SCALE, GREASE, OIL, FUEL, DUST, WET PAVEMENT, OR OTHER CONDITIONS DETRIMENTAL TO PAINT ADHESION. REMOVE GREASE, OIL, OR FUEL ON ANY SURFACE BEFORE PAINTING. CORRECT ALL SURFACE DEFECTS BEFORE PAINTING. CONTRACTOR SHALL EXAMINE AREAS TO BE PAINTED. NOTIFY THE OWNERS REPRESENTATIVE IN WRITING OF CONDITIONS THAT MIGHT DELAY TIMELY COMPLETION OF THE WORK.

PAINTING SHALL NOT BE PERFORMED WHEN THE AMBIENT TEMPERATURE IS LESS THAN 55 DEGREES FAHRENHEIT, OR WHILE THE SURFACE IS DAMP. THE SURFACE MUST BE FIVE DEGREES OR MORE ABOVE THE DEW POINT TEMPERATURE DURING PAINTING OPERATIONS AND WHILE

AREAS TO BE PAINTED SHALL RECEIVE ONE COAT OF PAINT NOT LESS THAN 25 MILS THICKNESS WET PER MODOT 620.9 THROUGH 620.9.3.4.2. IN LOCATIONS REQUIRING MULTIPLE COATS, PRIOR COAT SHALL BE DRY TO MANUFACTURER'S RECOMMENDATIONS BEFORE FINISHED WORK SHALL BE UNIFORM, OF APPROVED COLOR, FREE OF RUNS, DRIPS, DEFECTIVE BRUSHING, SPRAYING, AND CLOGGING. PARKING LINES AND SYMBOLS SHALL BE NEAT AND WELL DEFINED. ONLY SKILLED APPLICATORS SHALL APPLY PAINT. OWNERS REPRESENTATIVE SHALL APPROVE APPLICATION TECHNIQUES.

REMOVE PAINT SPLATTER FROM ADJACENT AREAS OR AREAS NOT DESIGNATED TO RECEIVE PAINT. CONTRACTOR SHALL REPAIR OR TOUCH UP ANY SURFACES IF EXPOSED TO VEHICULAR AND PEDESTRIAN TRAFFIC, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, AT NO ADDITIONAL COST TO THE OWNER. WHEN COLOR, DIRT, STAINS, EXISTING PAINT, ETC., SHOW THROUGH THE FINAL COAT, REPAINT THE SURFACE UNTIL THE FILM IS UNIFORM IN FINISH, COVERAGE, COLOR, AND APPEARANCE

REVISIONS:



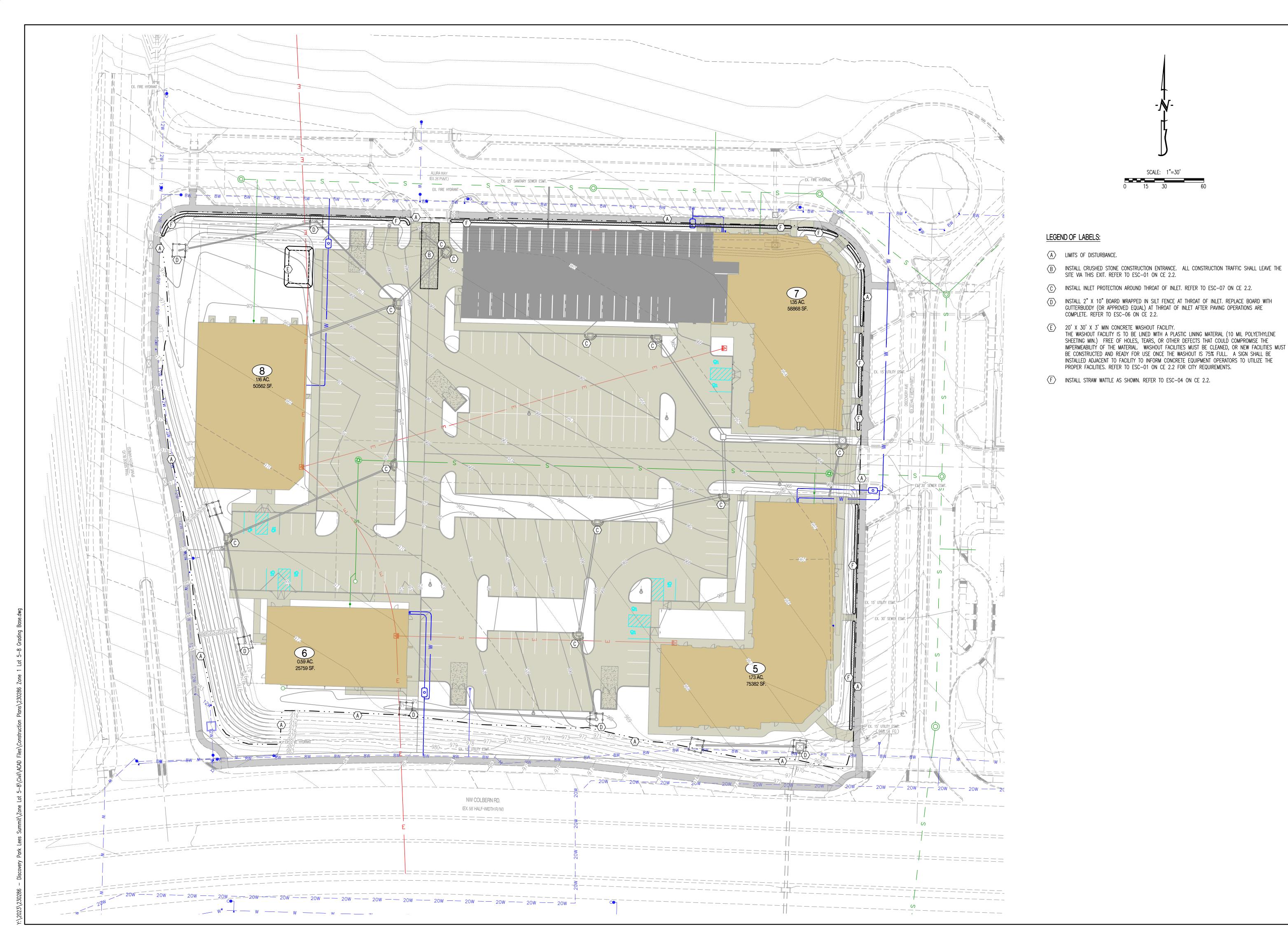


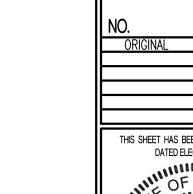
I DRAWING INCLUDES:

CIVIL SPECIFICATIONS

DESIGNED: NTE

NMD PROJECT NO.: 230286





REVISIONS:

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

OF M/S

NATHAN THOMAS

PECKHOFF

NATHAN THOMAS ECKHOFF

MO LICENSE-2003014960

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www.crockettengineering.com

Crockett Engineering Consultants, LLC
Missouri Certificate of Authority

DISCOVERY PARK LEES SUMMIT LLC 4220 PHILLIPS FARM RD COLUMBIA, MO 65201

THE VILLAGE AT DISCOVER LOTS 5-8

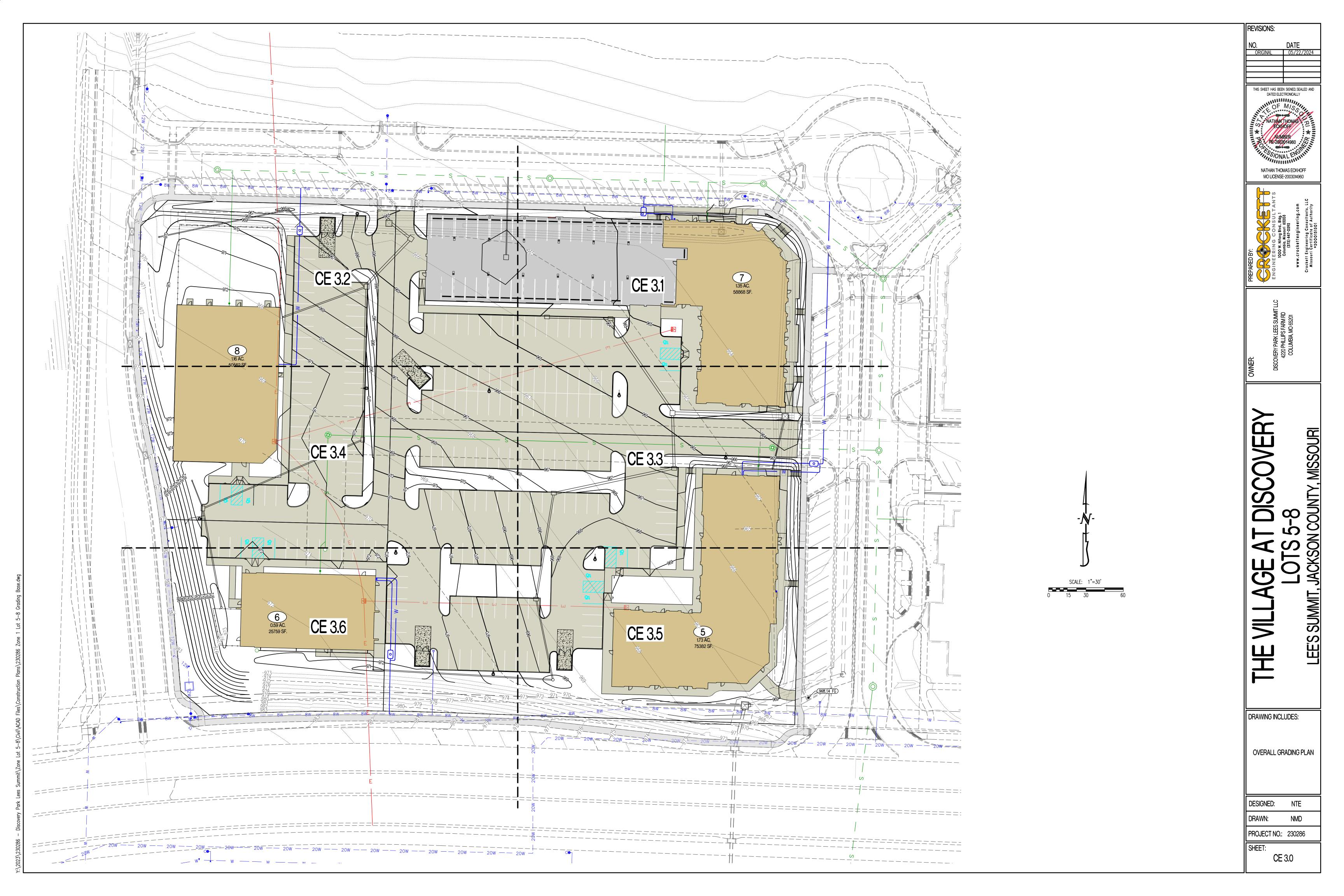
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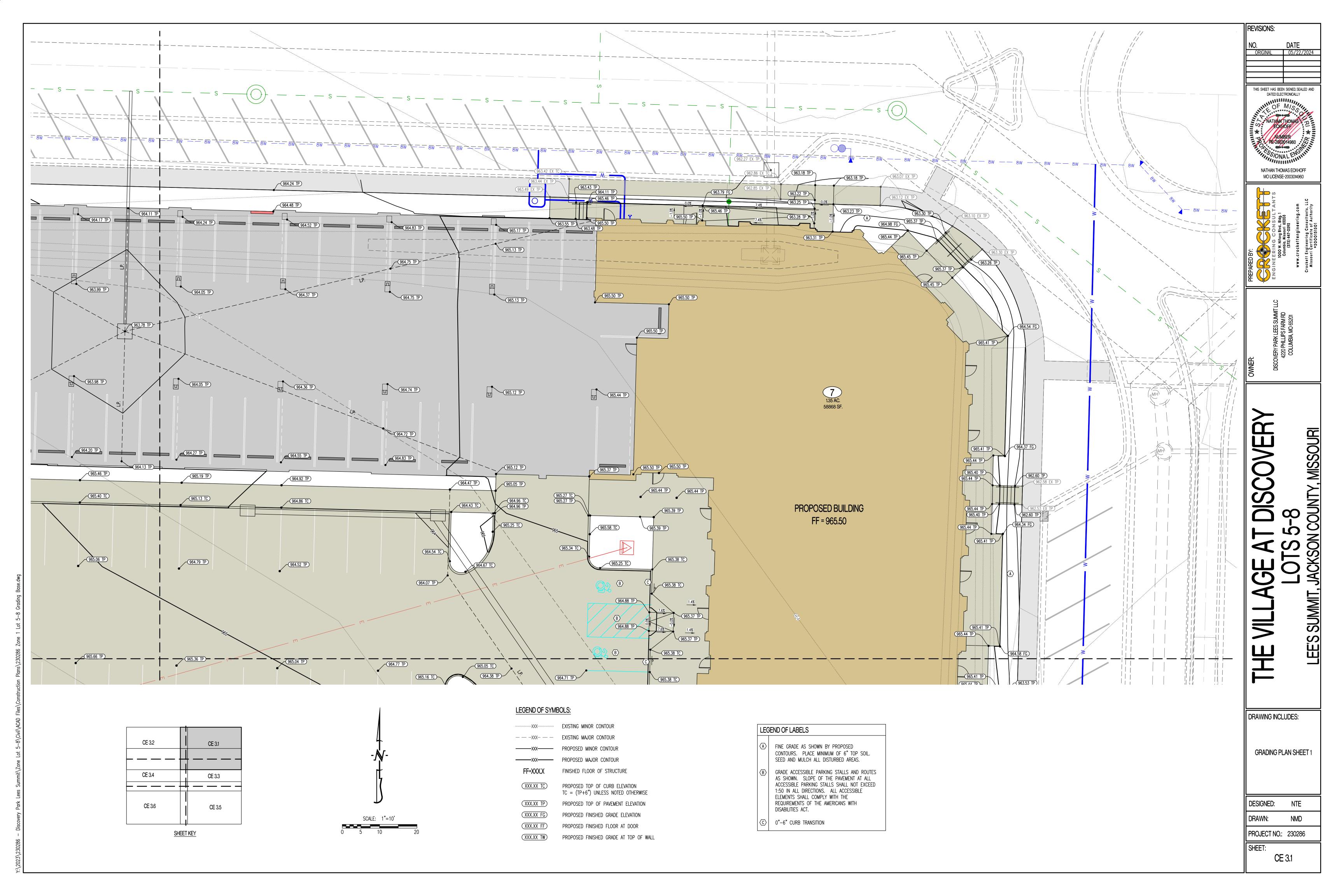
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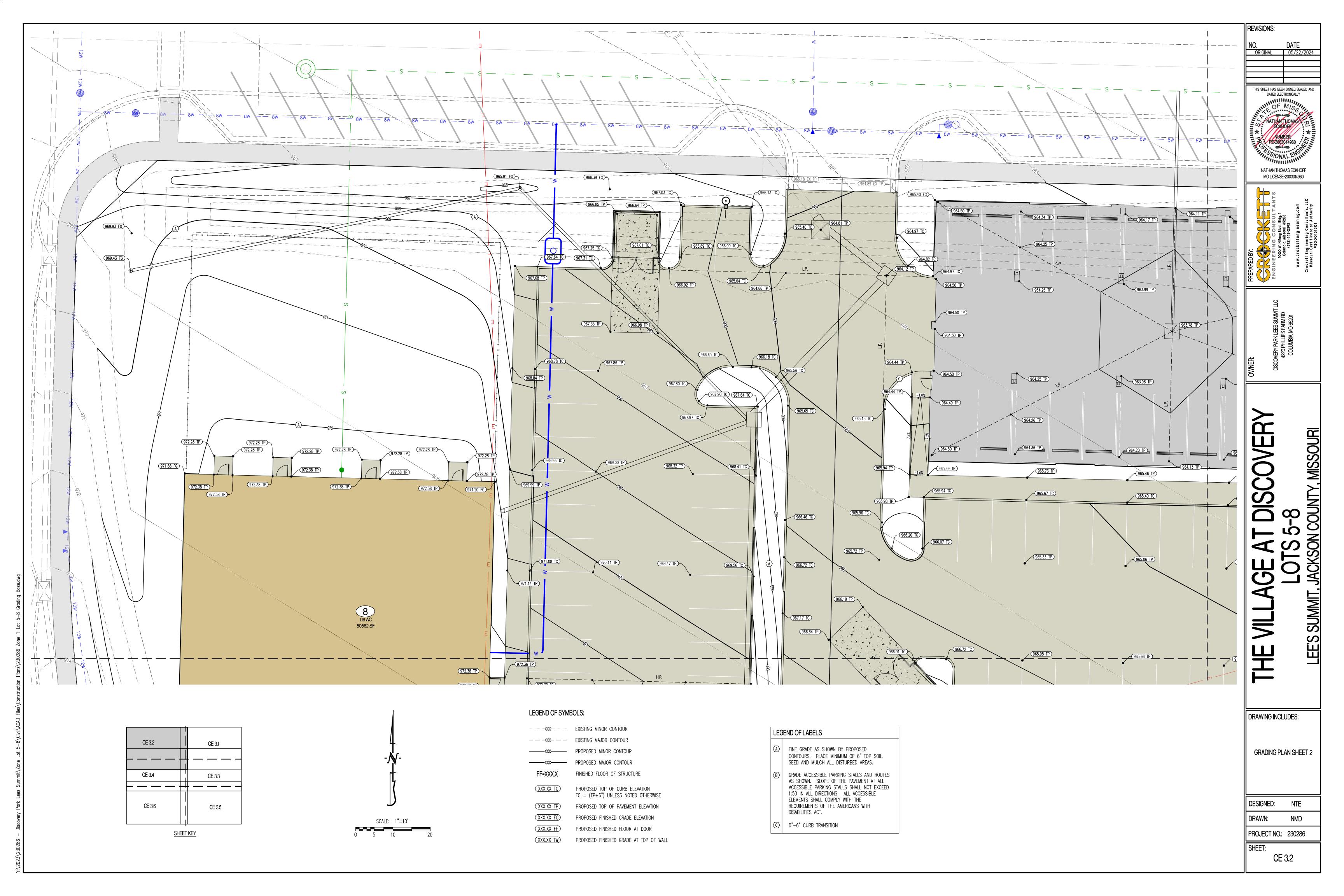
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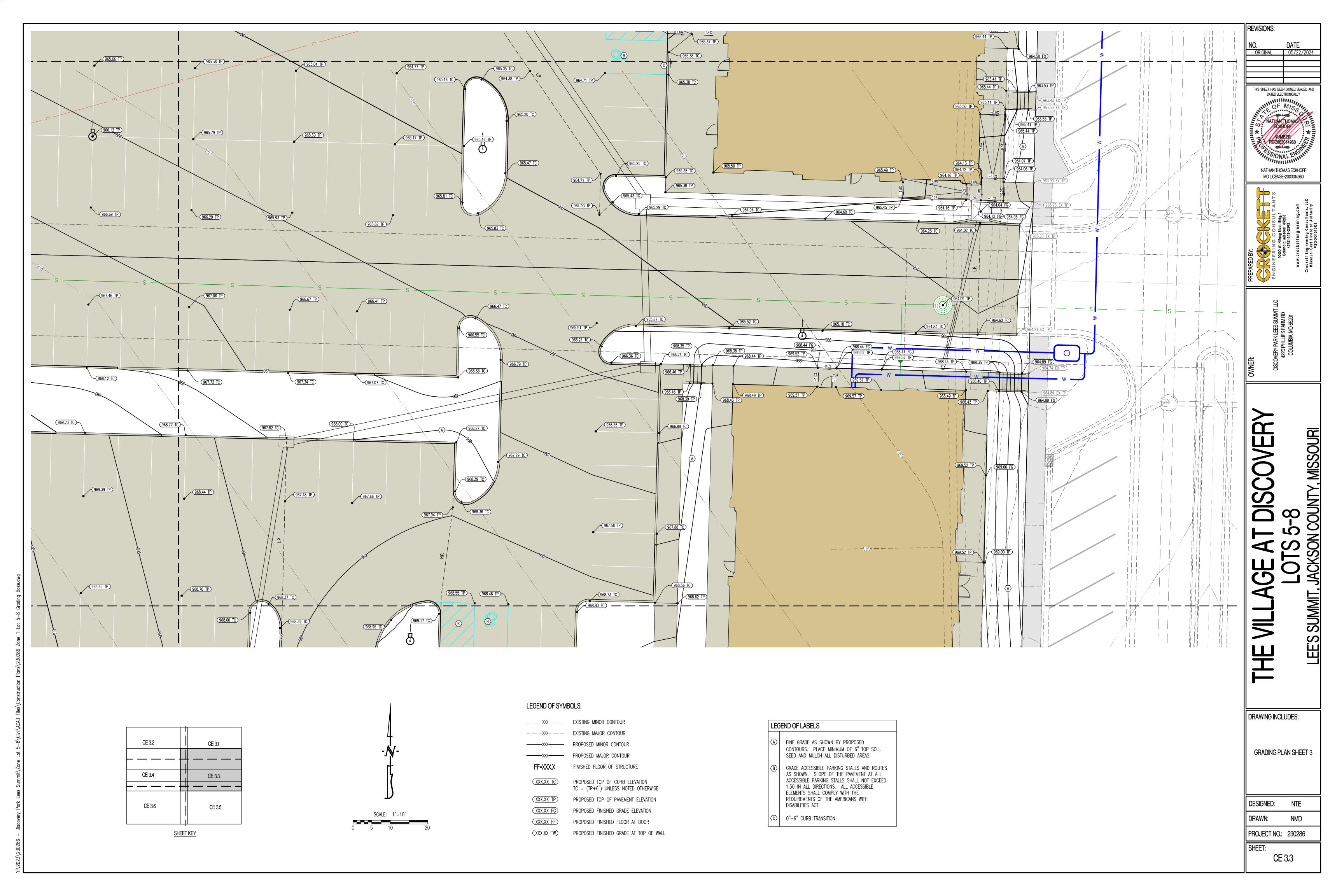
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PROJECT NO.: 230286

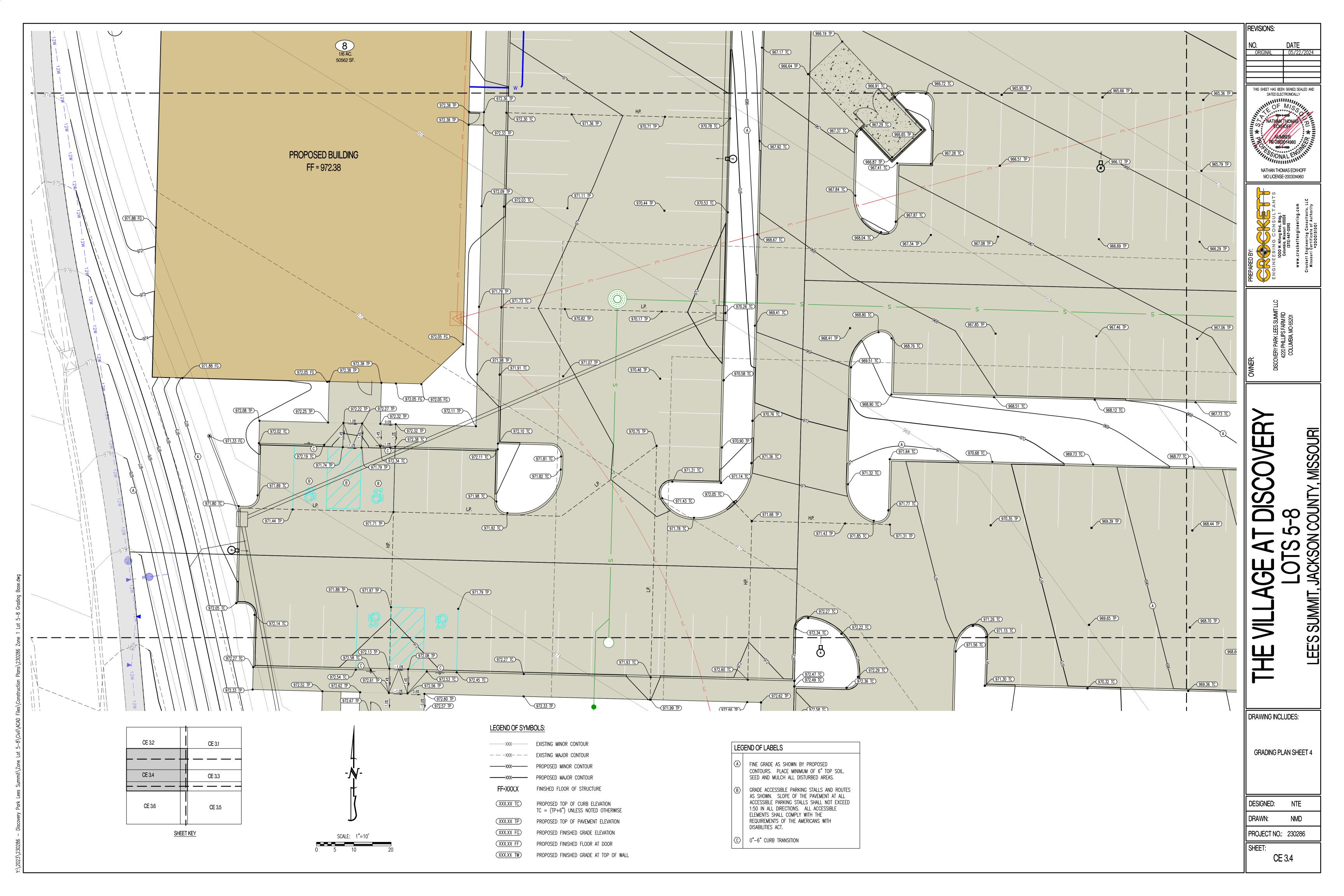
SHEET: CE 2.1

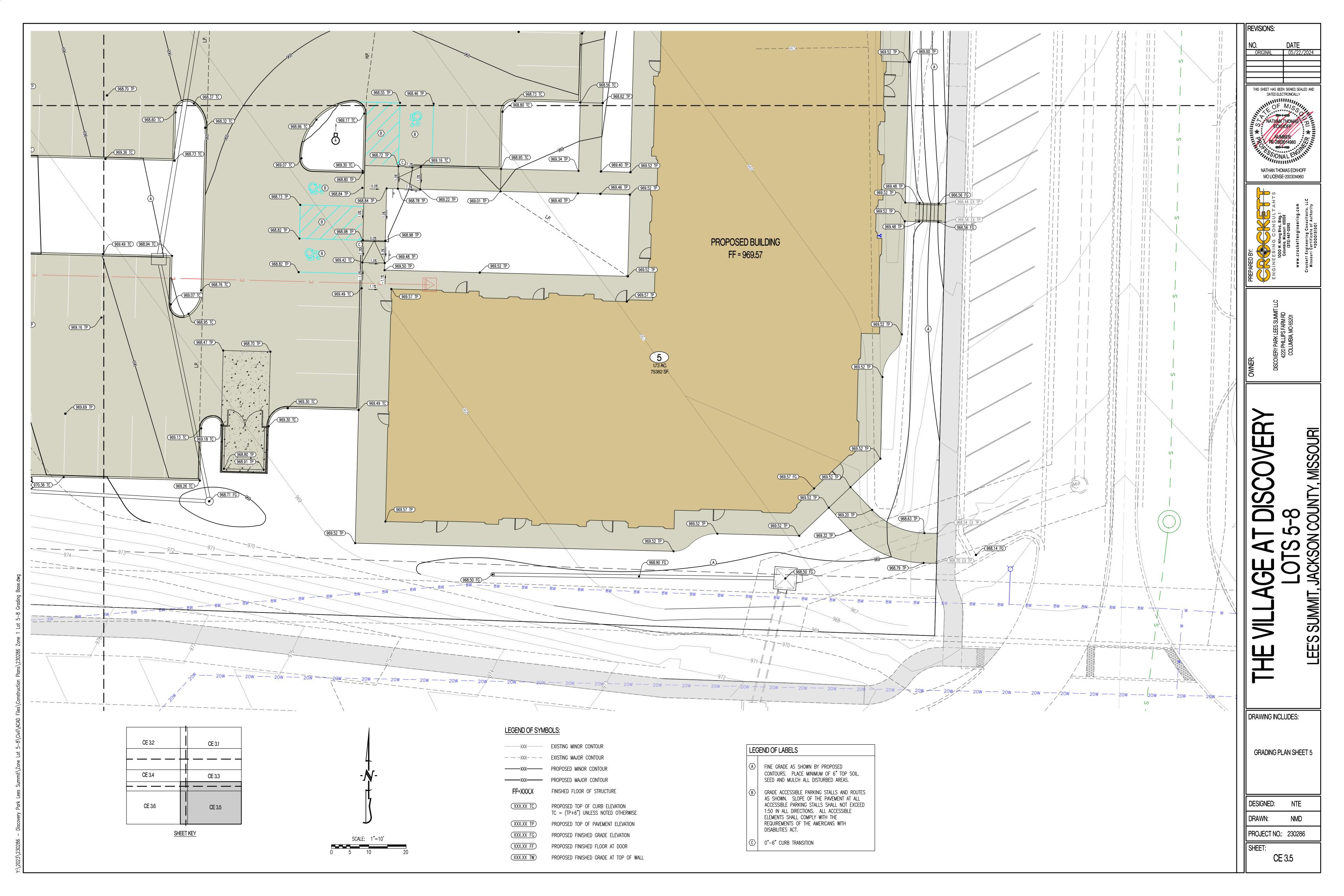


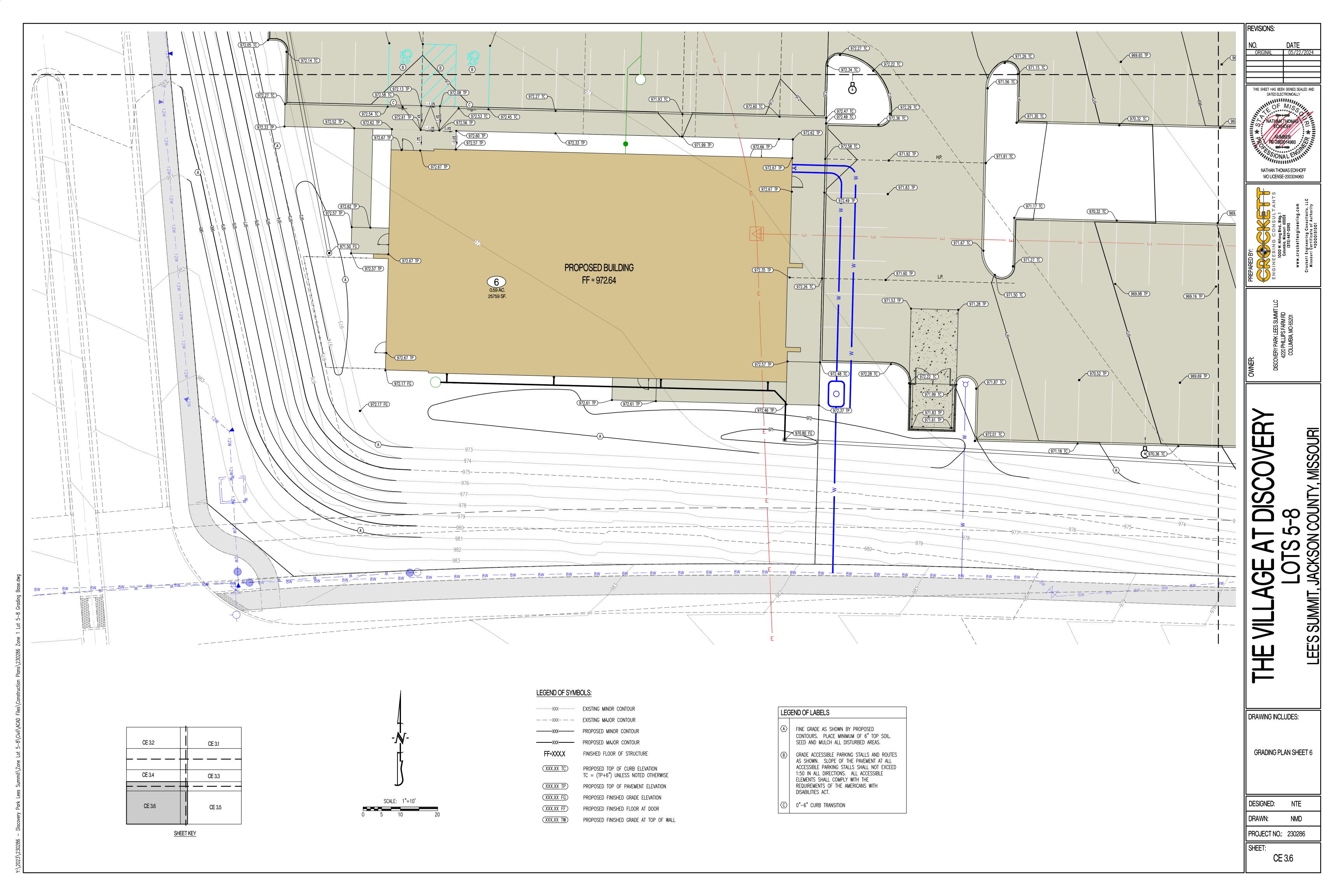


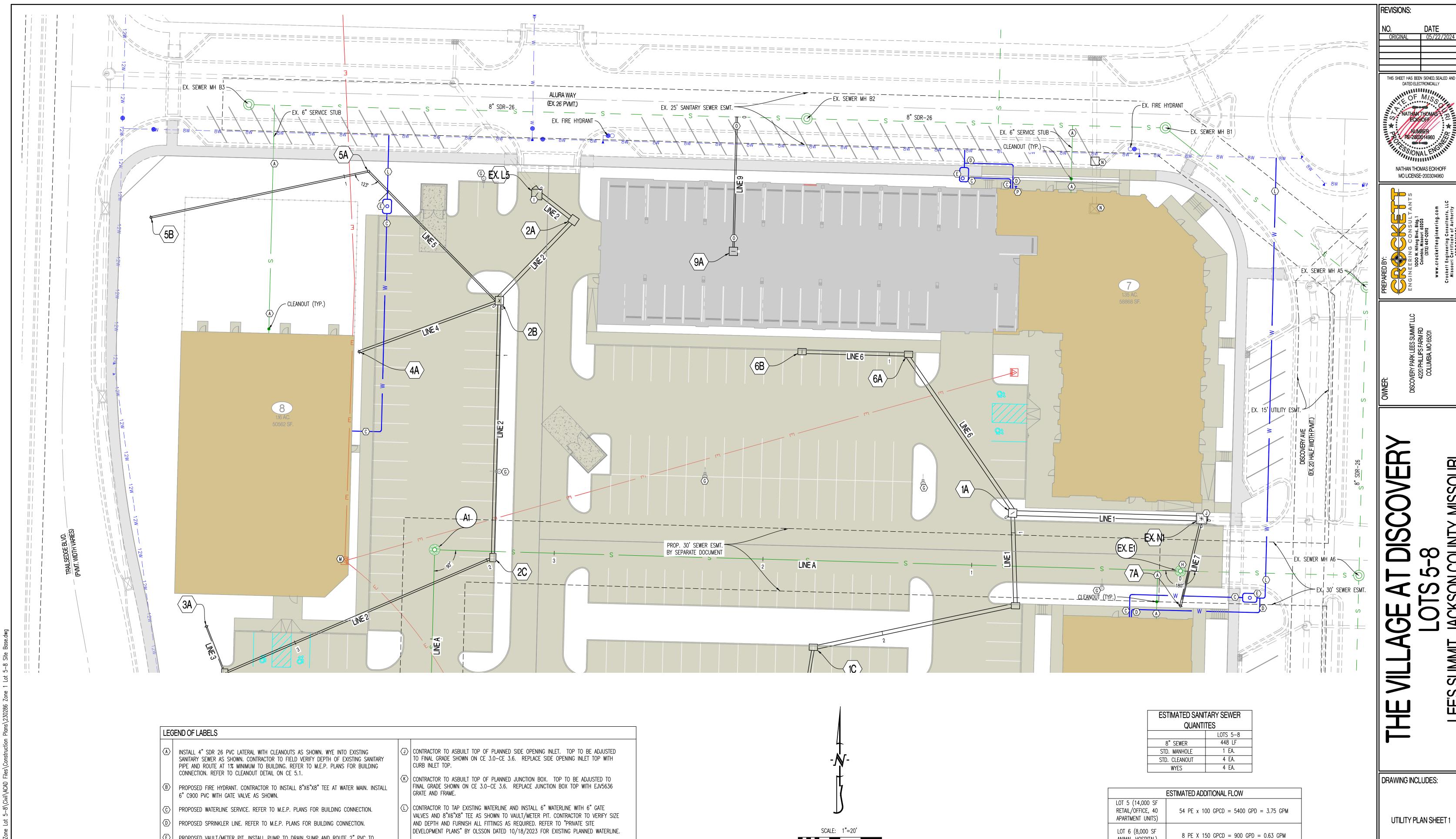












GENERAL NOTES:

EXCAVATION BEGINS.

1) CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH OF ALL UTILITIES BEFORE ANY

PROPOSED VAULT/METER PIT. INSTALL PUMP TO DRAIN SUMP AND ROUTE 2" PVC TO

CONTRACTOR TO ASBUILT TOP OF PLANNED SANITARY SEWER MANHOLE. TOP TO BE

CONTRACTOR TO ASBUILT TOP OF PLANNED SIDE OPENING INLET. TOP TO BE ADJUSTED

TO FINAL GRADE SHOWN ON CE 3.0-CE 3.6. REPLACE SIDE OPENING INLET TOP WITH

STORM LINE AS SHOWN. COORDINATE PUMP SIZE AND LOCATION WITH M.E.P.

PROPOSED TRANSFORMER. COORDINATE WITH M.E.P.

PROPOSED LIGHT POLE. REFER TO M.E.P. PLANS.

JUNCTION BOX TOP.

ADJUSTED TO FINAL GRADE SHOWN ON CE 3.0-CE 3.6.

PLANNED EXISTING ELECTRIC STRUCTURE TO BE RELOCATED. COORDINATE WITH UTILITY PROVIDER.

(N) EXISTING STORM STRUCTURE TO BE REMOVED. INSTALL NEW 3'X3' JUNCTION BOX OUTSIDE

| INSTALL 8" SCH. 40 PVC DRAIN AS SHOWN. WYE INTO EXISTING SANITARY SEWER. REFER

P PROPOSED FIRE DEPARTMENT CONNECTION (FDC). COORDINATE WITH ARCHITECT AND M.E.P.

INSTALLATION OF NEW STRUCTURE. NEW STORM STRUCTURE SHALL BE INSTALLED PRIOR TO

OF BUILDING FOOTPRINT. CONTRACTOR MAY REUSE EXISTING STORM PIPING DURING

PRIVATE STREET PAVING.

TO STORM PROFILE ON CE 6.2.

DRAWING INCLUDES:

UTILITY PLAN SHEET 1

ANIMAL HOSPITAL)

LOT 7 (8,600 SF

RETAIL/OFFICE, 46

APARTMENT UNITS)

LOT 8 (11,500 SF PET

DAYCARE CENTER)

TOTAL

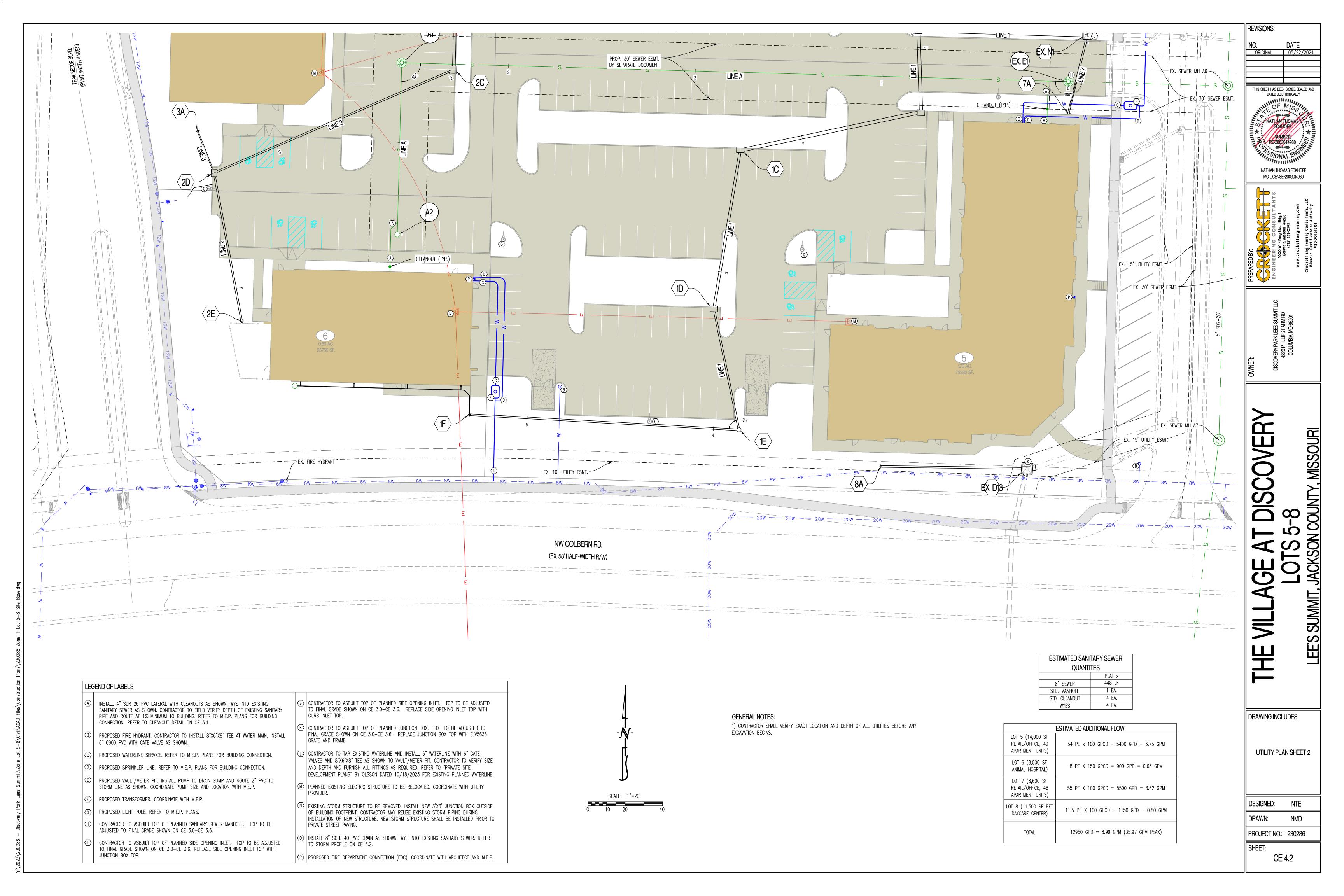
55 PE X 100 GPCD = 5500 GPD = 3.82 GPM

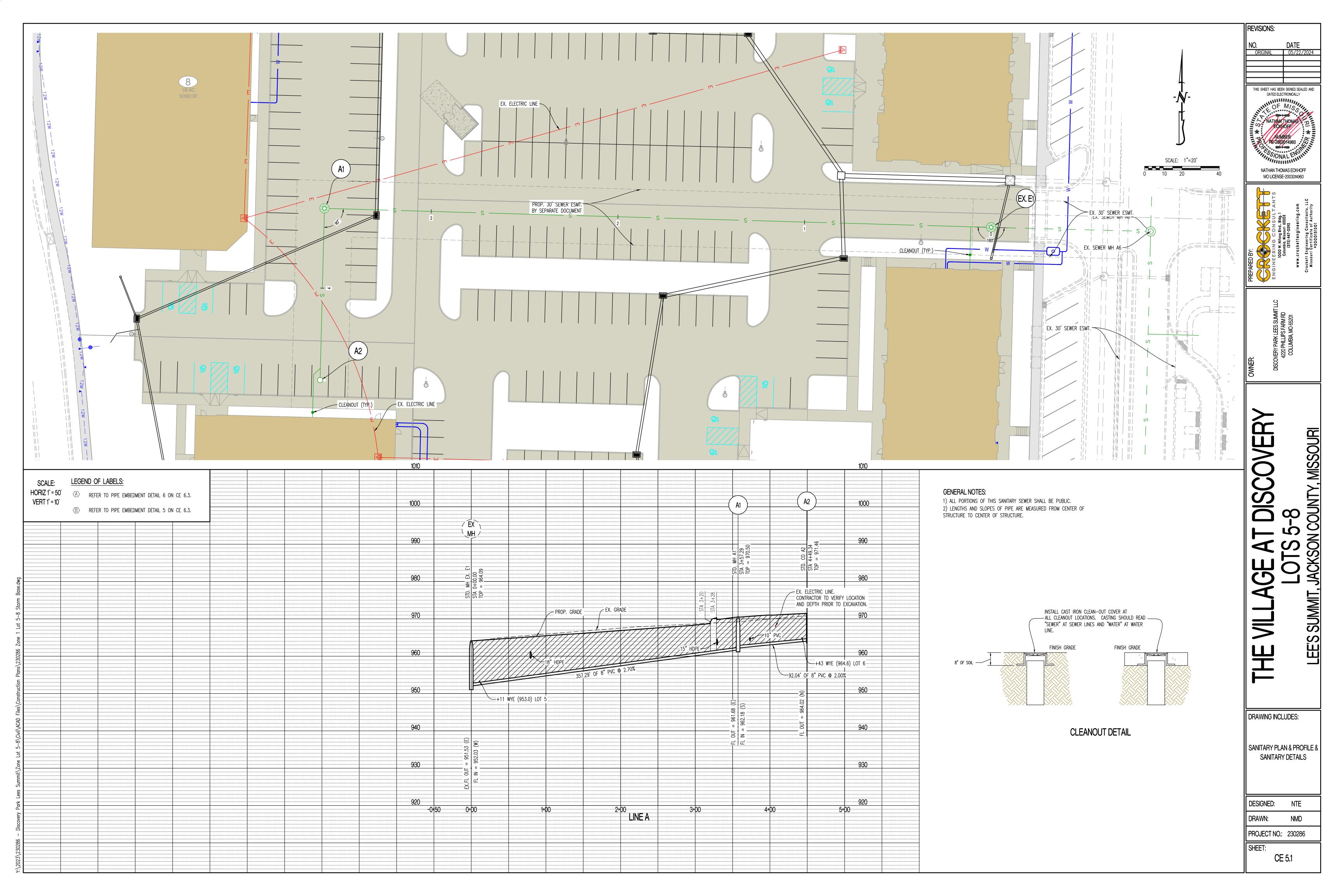
11.5 PE X 100 GPCD = 1150 GPD = 0.80 GPM

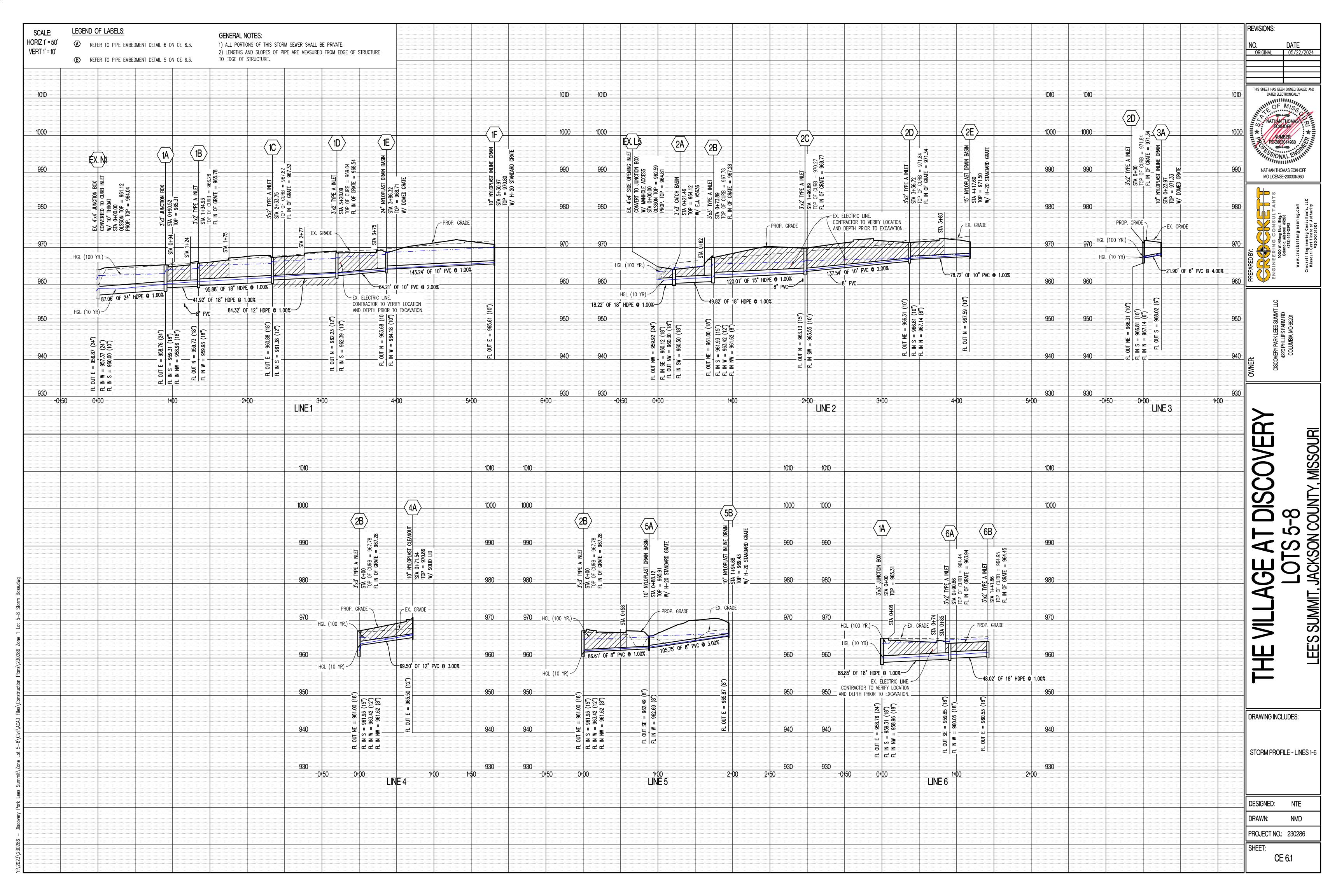
12950 GPD = 8.99 GPM (35.97 GPM PEAK)

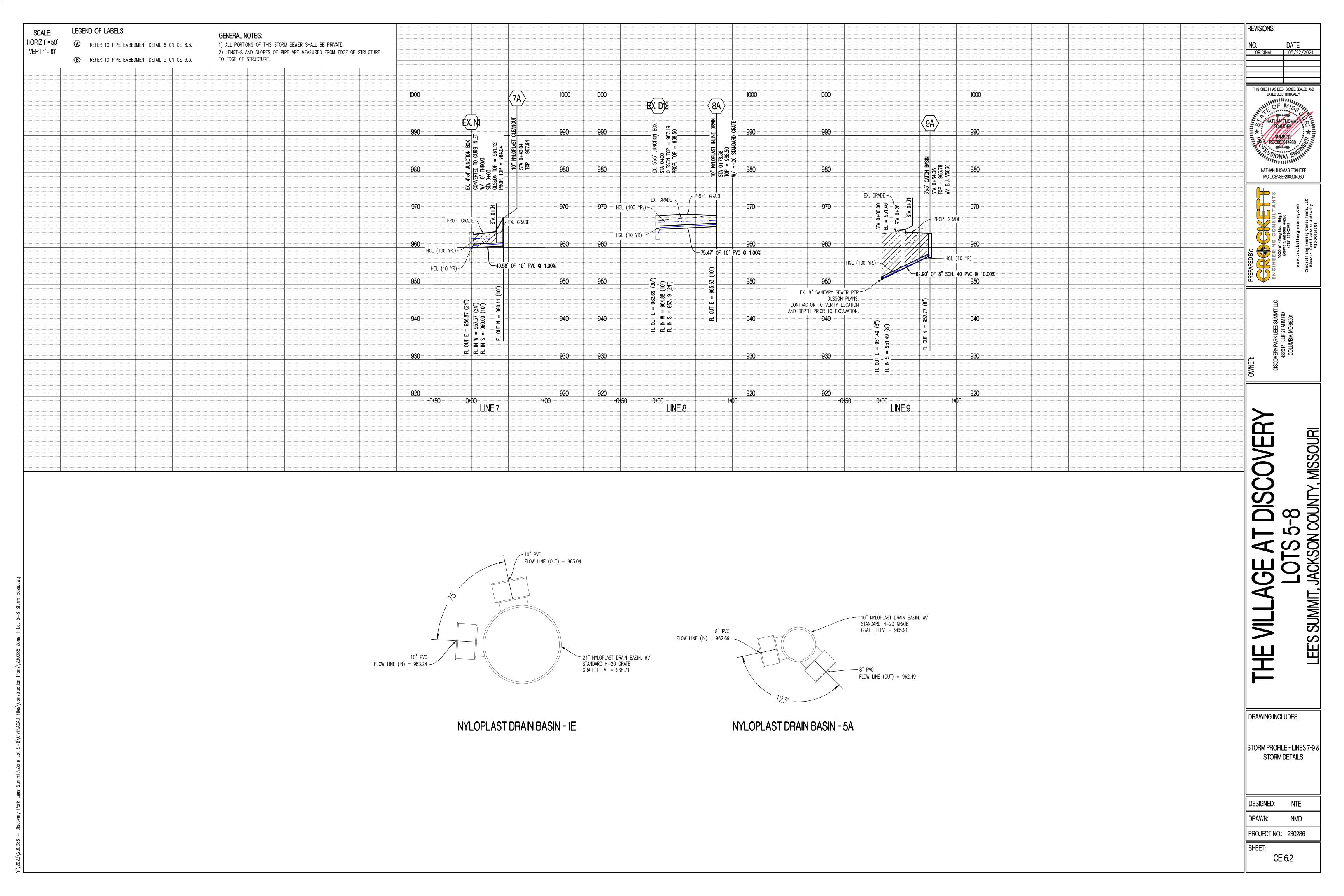
DESIGNED: DRAWN: NMD PROJECT NO.: 230286

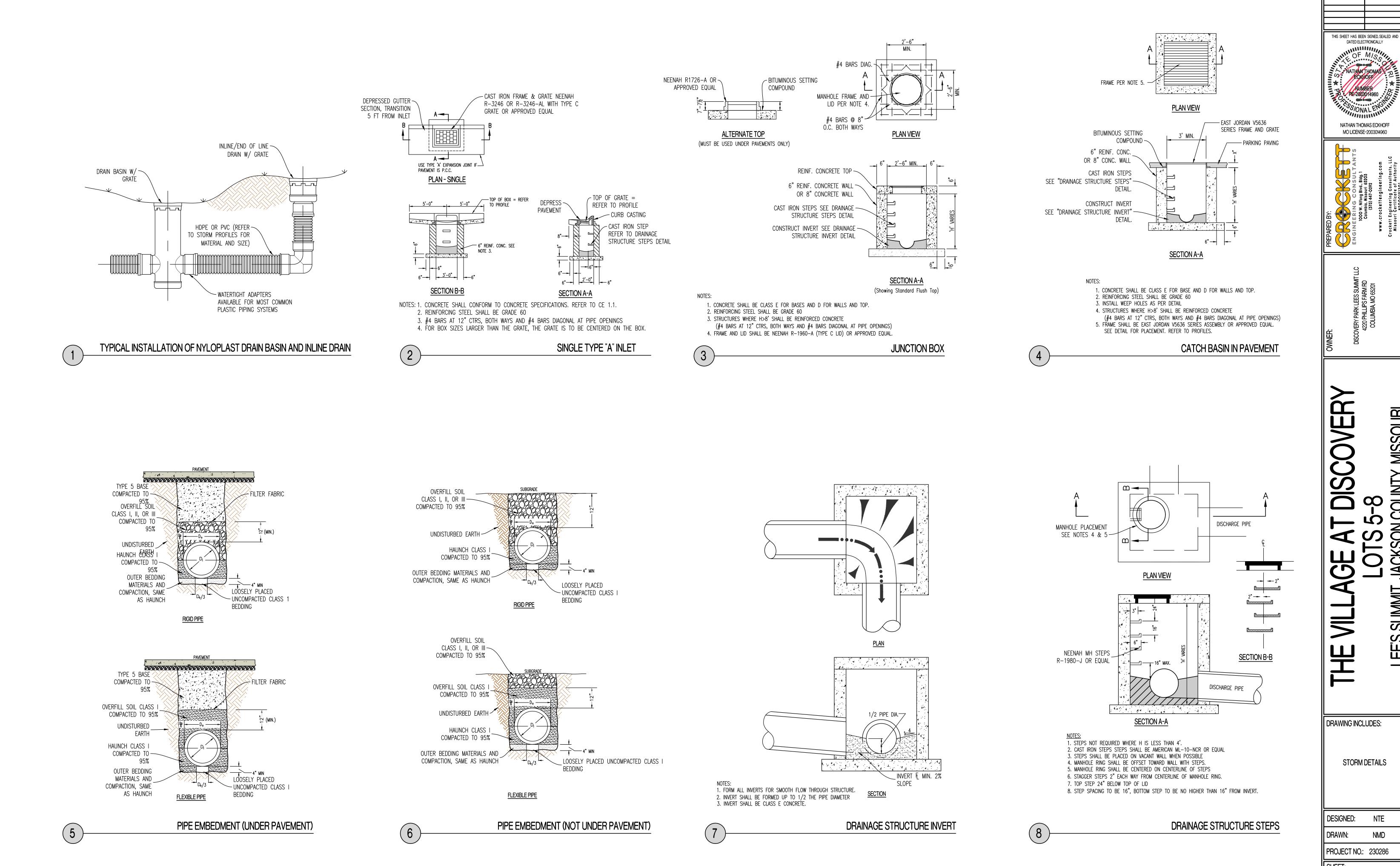
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|| REVISIONS:

SSOURI

JACKSON COUNTY, SUMMIT EES

DRAWING INCLUDES:

STORM DETAILS

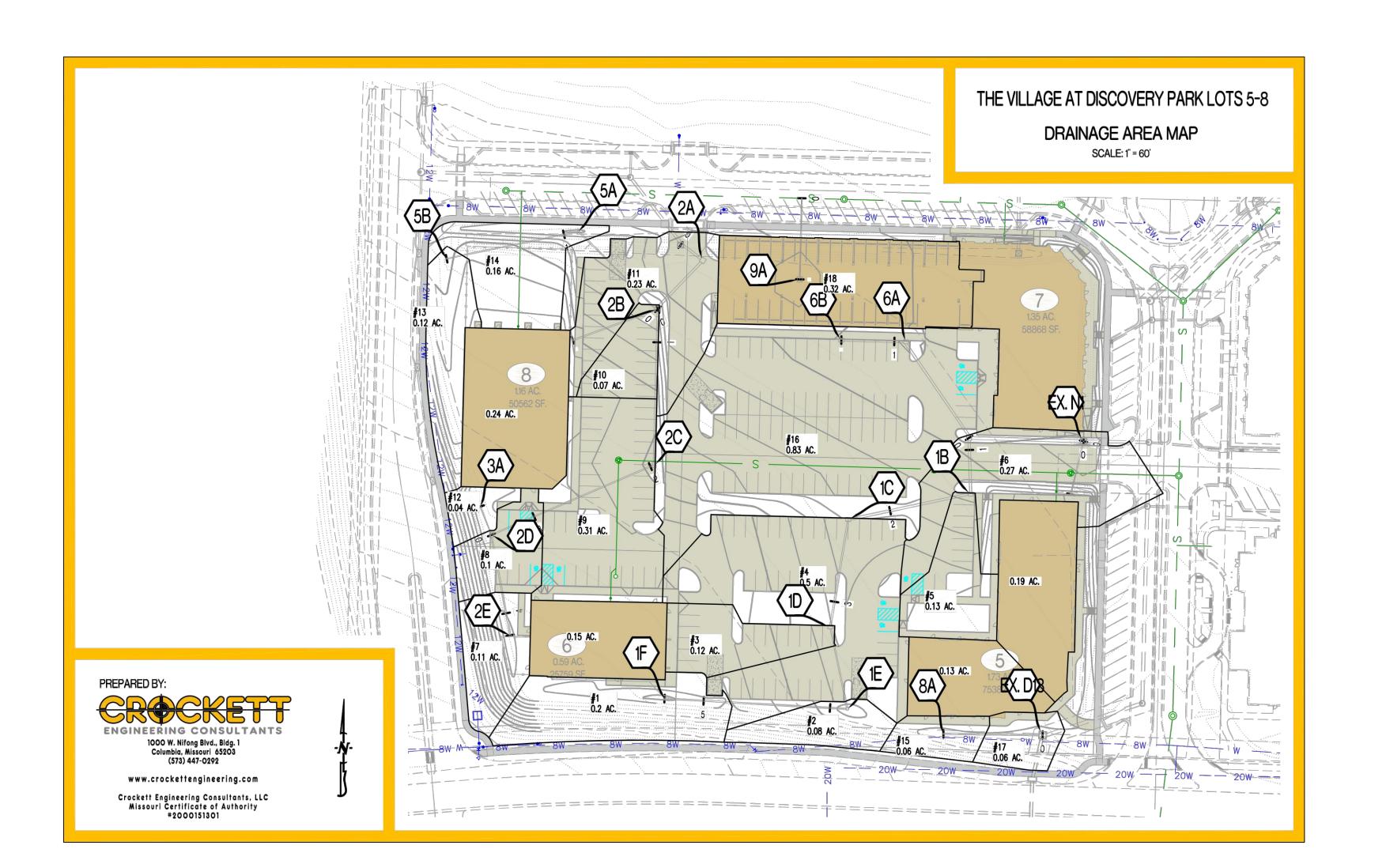
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NMD

PROJECT NO.: 230286

SHEET:

CE 6.3





| PROJECT: | The Vil | lage at Discovery L | ots 5-8 |
|----------------|----------|---------------------|---------|
| CALCULATED BY: | MWB | _ CHECKED BY: | NTI |
| DATE: | 05/21/24 | PROJECT NO: | 2302 |

PROJECT: The Village at Discovery Lots 5-8

CALCULATED BY: MWB CHECKED BY: NTE

| | STORM HYDROLOGY / GUTTER / INLET CALCLULATIONS | | | | | | | | | | | | | | | |
|-------------------------------------|--|------------|-----------------------|--------------------|-------|-------|--------------------|--------|----------------|--------------|--------------------------|-------------------------|-------------------------------|--------------------------|-------------------------|--|
| DESCRIPTION OVERLAND FLOW HYDROLOGY | | | | | | GUTT | ER AND | INLET | HYDRA | AULICS | NOTES | | | | | |
| AREA NO. | STRUCTURE LABEL | INLET TYPE | TIME OF CONCENTRATION | RUNOFF COEFFICIENI | AREA | CA | RAINFALL INTENSITY | RUNOFF | GUTTER FLOW | GUTTER SLOPE | WIDTH OF GUTTER. FLOW | DEPTH OF GUTTER FLOW | THEORETICAL INLET CAPACITY | DESIGN INLET CAPACITY | INLET BYPASS FLOW | |
| | | | min | | acres | acres | in/hr | cfs | cfs | ft/ft | ft | ft | cfs | cfs | cfs | |
| 1 | 1F | AREA | | 0.30 | 0.20 | 0.06 | 7.4 | 0.44 | | | | | 1.03 | 0.82 | 0.00 | 10" NYLOPLAST (STANDARD GRATE) W/ 1.2' OF HEAD |
| 2 | 1E | AREA | | 0.30 | 0.08 | 0.02 | 7.4 | 0.18 | | | | | 0.73 | 0.58 | 0.00 | 10" NYLOPLAST (DOMED GRATE) W/ 0.6' OF HEAD |
| 3 | 1D | Α | | 0.81 | 0.12 | 0.10 | 7.4 | 0.71 | | | | | 9.80 | 7.84 | 0.00 | TYPE A (IN SUMP) |
| 4 | 1C | Α | | 0.81 | 0.50 | 0.41 | 7.4 | 2.98 | | | | | 9.80 | 7.84 | 0.00 | TYPE A (IN SUMP) |
| 5 | 1B | Α | | 0.81 | 0.13 | 0.11 | 7.4 | 0.77 | | | | | 9.80 | 7.84 | 0.00 | TYPE A (IN SUMP) |
| 6 | EX. N1 | CURB | | 0.81 | 0.27 | 0.22 | 7.4 | 1.61 | | | | | 8.80 | 7.04 | 0.00 | 4' SIDE OPEN INLET (2.2 CFS/FT) |
| 7 | 2E | AREA | | 0.30 | 0.11 | 0.03 | 7.4 | 0.24 | | | | | 0.79 | 0.63 | 0.00 | 10" NYLOPLAST (STANDARD GRATE) W/ 0.7" OF HEAD |
| 8 | 2D | Α | | 0.81 | 0.10 | 80.0 | 7.4 | 0.60 | | | | | 9.80 | 7.84 | 0.00 | TYPE A (IN SUMP) |
| 9 | 2C | Α | | 0.81 | 0.31 | 0.25 | 7.4 | 1.85 | | | | | 9.80 | 7.84 | 0.00 | TYPE A (IN SUMP) |
| 10 | 2B | Α | | 0.81 | 0.07 | 0.06 | 7.4 | 0.42 | | | | | 9.80 | 7.84 | 0.00 | TYPE A (IN SUMP) |
| 11 | 2A | CB | | 0.81 | 0.23 | 0.19 | 7.4 | 1.37 | | | | | 13.40 | 10.72 | 0.00 | EJ V5636 W/ 0.4' OF HEAD |
| 12 | ЗА | AREA | | 0.30 | 0.04 | 0.01 | 7.4 | 0.09 | | | | | 0.66 | 0.53 | 0.00 | 10" NYLOPLAST (DOMED GRATE) W/ 0.5' OF HEAD |
| 13 | 5B | AREA | | 0.30 | 0.12 | 0.04 | 7.4 | 0.26 | | | | | 0.66 | 0.53 | 0.00 | 10" NYLOPLAST (STANDARD GRATE) W/ 0.5' OF HEAD |
| 14 | 5A | AREA | | 0.30 | 0.16 | 0.05 | 7.4 | 0.35 | | | | | 1.42 | 1.14 | 0.00 | 10" NYLOPLAST (STANDARD GRATE) W/ 0.5' OF HEAD |
| 15 | 8A | AREA | | 0.30 | 0.06 | 0.02 | 7.4 | 0.13 | | | | | 0.66 | 0.53 | 0.00 | 10" NYLOPLAST (STANDARD GRATE) W/ 0.5' OF HEAD |
| 16 | 6A | Α | | 0.81 | 0.83 | 0.67 | 7.4 | 4.94 | | | | | 9.80 | 7.84 | 0.00 | TYPE A (IN SUMP) |
| 17 | EX. D13 | CB | | 0.30 | 0.06 | 0.02 | 7.4 | 0.13 | | | | | 4.10 | 3.28 | 0.00 | 5' SIDE OPEN INLET (0.82 CFS/FT) |
| 18 | 9A | CB | | 0.50 | 0.32 | 0.16 | 7.4 | 1.18 | | | | | 13.40 | 10.72 | 0.00 | EJ V5636 W/ 0.4' OF HEAD |
| | | | | | | | | | | | | | | | | |
| | | | | 0.99 | 0.15 | 0.15 | 7.4 | 1.09 | | | | | | | | |
| | | | | 0.99 | 0.24 | 0.24 | 7.4 | 1.75 | | | | | | | | |
| | | | | 0.99 | 0.19 | 0.19 | 7.4 | 1.38 | | | | | | | | |
| | | | | 0.99 | 0.13 | 0.13 | 7.4 | 0.95 | | | | | | | | |
| | | | | | | | | | | | | | | | | |
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| ENGINEERING CONSULTANT | S |
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| NGINEER | RING | CON | SULT | ANTS | | | | | | | | DATE: | 5/21/24 | PROJECT NO | : 230286 | | |
|------------------|--------------------------|-----------------------|-------|--------------|--------------------|--------------|-------------------|----------------------------|---|-----------------------------|-----------------------------|-------|---------|------------|----------|--|--|
| | STORM DRAIN PIPE SIZE | | | | | | | | | | | | | | | | |
| DESCRIPTION | 1 | | | | STOF | RM DRAIN | I HYDRAL | JLICS | | | | NOTES | | | | | |
| AREA NO. | UPSTREAM STRUCTURE LABEL | TIME OF CONCENTRATION | ADDED | CUMUL. | BAINFALL INTENSITY | RUNOFF | STORM DRAIN SLOPE | STORM DRAIN DIAMETER | JO S JO STORM DRAIN. H. 5- 3- MATERIAL M. 5- 1- MATERIAL | CAPACITY FLOWING FULL | VELOCITY FLOWING FULL | | | | | | |
| | UPS | min | acres | acres | in/hr | cfs | ft/ft | in | 01,11.01 | cfs | fps | | | | | | |
| | | | | | LINE 1 | | | | | | | | | | | | |
| OOF (LOT 6) | 1F | -5 | | 0.21 | 7.35 | 1.53 | 0.010 | 10 | PVC | 2.59 | 4.75 | | | | | | |
| 2 | 1E | . 5 | 0.02 | 0.23 | 7.35 | 1.71 | 0.020 | 10 | PVC | 3.66 | 6.71 | | | | | | |
| 3 | 1D | 5 | 0.10 | 0.33 | 7.35 | 2.42 | 0.010 | 12 | HDPE | 3.86 | 4.91 | | | | | | |
| 4 | 1C | . 5 | 0.41 | 0.73 | 7.35 | 5.40 | 0.010 | 18 | HDPE | 11.37 | 6.44 | | | | | | |
| 5 | 1B | . 5 | 0.11 | 0.84 | 7.35 | 6.17 | 0.010 | 18 | HDPE | 11.37 | 6.44 | | | | | | |
| LINE 6 | 1A | √ 5 | 0.67 | 1.51 | 7.35 | 11.12 | 0.016 | 24 | HDPE | 30.98 | 9.87 | | | | | | |
| 7 | 0 E | ·F | | | INE 2 | 0.04 | 0.010 | 10 | D) (O | 0.50 | 4.75 | | | | | | |
| 7 | 2E | ·5 | 0.00 | 0.03 | 7.35 | 0.24 | 0.010 | 10 | PVC PVC | 2.59 | 4.75 | | | | | | |
| 3 + LINE 3 9 | 2D 2C | -5 -5 | 0.09 | 0.13 0.38 | 7.35 7.35 | 0.93 2.77 | 0.020 | 10 15 | HDPE | 3.66 6.99 | 6.71 5.70 | | | | | | |
| LINES 4 & 5 | 2B | <i>5</i> | 0.25 | 0.36 | 7.35 | 5.55 | 0.010 | 18 | HDPE | 11.37 | 6.44 | | | | | | |
| 11 | 2A | - 5 | 0.38 | 0.76 | 7.35 | 6.92 | 0.010 | 18 | HDPE | 11.37 | 6.44 | | | | | | |
| II I | ZA | Ü | 0.19 | | INE 3 | 0.92 | 0.010 | Ю | HUFL | 11.07 | 0.44 | | | | | | |
| 12 | ЗА | 4 5 | | 0.01 | 7.35 | 0.09 | 0.040 | 6 | PVC | 1.33 | 6.75 | | | | | | |
| 12 | U.N | | | | INE 4 | 0.00 | 0.040 | U | 1 00 | 1.00 | 0.70 | | | | | | |
| OF (LOT 8) | 4A | ' 5 | | 0.24 | 7.35 | 1.75 | 0.030 | 12 | HDPE | 6.68 | 8.51 | | | | | | |
| | ., | | | | INE 5 | 0 | 0.000 | | | 0.00 | 3.3. | | | | | | |
| 13 | 5B | √ 5 | | 0.04 | 7.35 | 0.26 | 0.010 | 8 | PVC | 1.43 | 4.09 | | | | | | |
| 14 | 5A | ' 5 | 0.05 | 0.08 | 7.35 | 0.62 | 0.030 | 8 | PVC | 2.47 | 7.09 | | | | | | |
| | | | | | INE 6 | | | | | | | | | | | | |
| 16 | 6A | . 5 | | 0.67 | 7.35 | 4.94 | 0.010 | 18 | HDPE | 11.37 | 6.44 | | | | | | |
| | | | | l | INE 7 | | | | | | | | | | | | |
| ROOF (LOT 5) | 7A | 5 | | 0.19 | 7.35 | 1.38 | 0.010 | 10 | PVC | 2.59 | 4.75 | | | | | | |
| | | | | L | INE 8 | | | | | | | | | | | | |
| OOF (LOT 5) + 15 | 8A | 5 | | 0.15 | 7.35 | 1.08 | 0.010 | 10 | PVC | 2.59 | 4.75 | | | | | | |
| | | | 300 | ι | INE 8 | | | | | | | | | | | | |
| 18 | 9A | 5 | | 0.16 | 7.35 | 1.18 | 0.100 | 8 | PVC | 4.51 | 12.94 | | | | | | |

REVISIONS:

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY NATHAN THOMAS ECKHOFF

MO LICENSE-2003014960

JACKSON COUNTY, MISSOURI

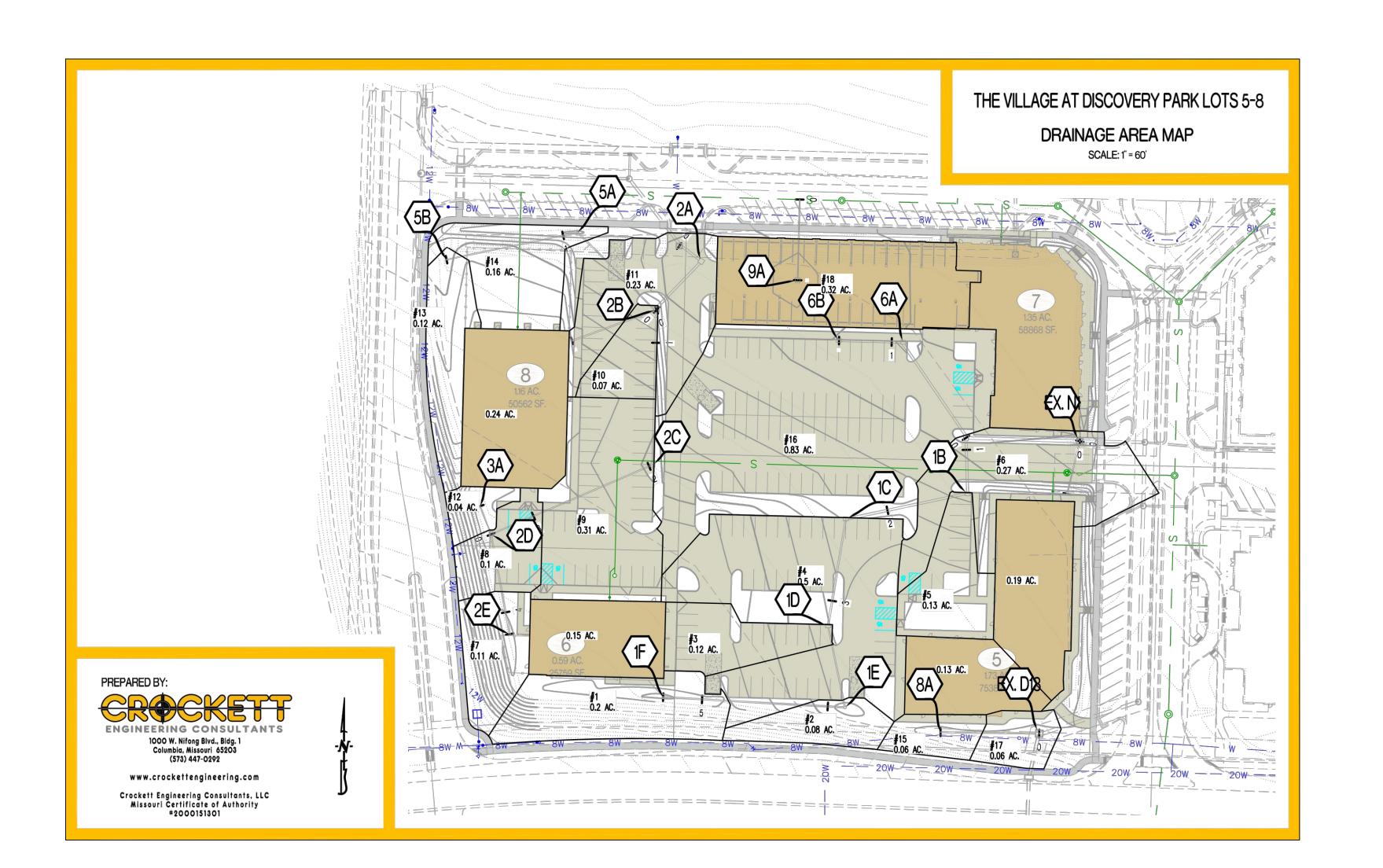
LEE'S SUMMIT

DRAWING INCLUDES:

25-YR STORM CALCULATIONS

DESIGNED: DRAWN: NMD PROJECT NO.: 230286

SHEET: CE 6.4





ENGINEERING CONSULTANTS

PROJECT: Village at Discovery Park Lots 5-8

CALCULATED BY: MWB CHECKED BY: NTE

DATE: 05/21/24 PROJECT NO: 230286

Village at Discovery Park Lots 5-8

NTE

CHECKED BY:

| | STORM HYDROLOGY / GUTTER / INLET CALCLULATIONS | | | | | | | | | | | | | | | |
|----------|--|------------|-----------------------|--------------------|--------|-------|--------------------|--------|----------------|--------------|--|-------------------------|-------------------------------|--------------------------|--|--|
| DES | SCRIPT | ION | 0\ | /ERLAN | ND FLC | W HYE | ROLO | GY | | GUTT | ER AND | INLE1 | HYDR/ | NOTES | | |
| AREA NO. | STRUCTURE LABEL | INLET TYPE | TIME OF CONCENTRATION | RUNOFF COEFFICIENT | AREA | CA | BAINFALL INTENSITY | RUNOFF | GUTTER FLOW | GUTTER SLOPE | WIDTH OF GUTTER FLOW | DEPTH OF GUTTER FLOW | THEORETICAL INLET CAPACITY | DESIGN INLET CAPACITY | INLET BYPASS FLOW | |
| | | | min | | acres | acres | in/hr | cfs | cfs | ft/ft | ft | ft | cfs | cfs | cfs | |
| 1 | 1F | AREA | . 5 | 0.38 | 0.20 | 80.0 | 10.3 | 0.77 | | | | | 1.03 | 0.82 | 0.00 | 10" NYLOPLAST (STANDARD GRATE) W/ 1.2" OF HEAD |
| 2 | 1E | AREA | . 5 | 0.38 | 0.08 | 0.03 | 10.3 | 0.31 | | | _ | | 0.73 | 0.58 | 0.00 | 10" NYLOPLAST (DOMED GRATE) W/ 0.6' OF HEAD |
| 3 | 1D | Α | . 5 | 0.99 | 0.12 | 0.12 | 10.3 | 1.23 | | | | | 9.80 | 7.84 | 0.00 | TYPE A (IN SUMP) |
| 4 | 1C | Α | 4 5 | 0.99 | 0.50 | 0.50 | 10.3 | 5.11 | | | | | 9.80 | 7.84 | 0.00 | TYPE A (IN SUMP) |
| 5 | 1B | Α | . 5 | 0.99 | 0.13 | 0.13 | 10.3 | 1.33 | | | _ | | 9.80 | 7.84 | 0.00 | TYPE A (IN SUMP) |
| 6 | EX. N1 | CURB | . 5 | 0.99 | 0.27 | 0.27 | 10.3 | 2.76 | | | | | 8.80 | 7.04 | 0.00 | 4' SIDE OPEN INLET (2.2 CFS/FT) |
| 7 | 2E | AREA | < 5 | 0.38 | 0.11 | 0.04 | 10.3 | 0.43 | | | | | 0.79 | 0.63 | 0.00 | 10" NYLOPLAST (STANDARD GRATE) W/ 0.7' OF HEAD |
| 8 | 2D | Α | . 5 | 0.99 | 0.10 | 0.10 | 10.3 | 1.02 | | | | | 9.80 | 7.84 | 0.00 | TYPE A (IN SUMP) |
| 9 | 2C | Α | . 5 | 0.99 | 0.31 | 0.31 | 10.3 | 3.17 | | | | | 9.80 | 7.84 | 0.00 | TYPE A (IN SUMP) |
| 10 | 2B | Α | . 5 | 0.99 | 0.07 | 0.07 | 10.3 | 0.72 | | | | | 9.80 | 7.84 | 0.00 | TYPE A (IN SUMP) |
| 11 | 2A | CB | . 5 | 0.99 | 0.23 | 0.23 | 10.3 | 2.35 | | | | | 13.40 | 10.72 | 0.00 | EJ V5636 W/ 0.4' OF HEAD |
| 12 | 3A | AREA | . 5 | 0.38 | 0.04 | 0.02 | 10.3 | 0.15 | | | | | 0.66 | 0.53 | 0.00 | 10" NYLOPLAST (DOMED GRATE) W/ 0.5' OF HEAD |
| 13 | 5B | AREA | . 5 | 0.38 | 0.12 | 0.05 | 10.3 | 0.46 | | | | | 0.66 | 0.53 | 0.00 | 10" NYLOPLAST (STANDARD GRATE) W/ 0.5' OF HEAD |
| 14 | 5A | AREA | ' 5 | 0.38 | 0.16 | 0.06 | 10.3 | 0.62 | 1 | | | | 1.42 | 1.14 | 0.00 | 10" NYLOPLAST (STANDARD GRATE) W/ 0.5' OF HEAD |
| 15 | 8A | AREA | . 5 | 0.38 | 0.06 | 0.02 | 10.3 | 0.23 | | | | | 0.66 | 0.53 | 0.00 | 10" NYLOPLAST (STANDARD GRATE) W/ 0.5' OF HEAD |
| 16 | 6A | A | . 5 | 0.99 | 0.83 | 0.82 | 10.3 | 8.48 | - | | | | 9.80 | 7.84 | 0.64 | TYPE A (IN SUMP) |
| 17 | EX. D13 | CB | . 5 | 0.38 | 0.06 | 0.02 | 10.3 | 0.23 | 1 | | | | 4.10 | 3.28 | 0.00 | 5' SIDE OPEN INLET (0.82 CFS/FT) |
| 18 | 9 A | CB | . 5 | 0.50 | 0.32 | 0.16 | 10.3 | 1.65 | | | | | 13.40 | 10.72 | 0.00 | EJ V5636 W/ 0.4' OF HEAD |
| | | | | | 0.15 | 0.15 | 40.0 | 450 | - | | | | | | | |
| | | | | 0.99 | 0.15 | 0.15 | 10.3 | 1.53 | | | | | | | | |
| | | | | 0.99 | 0.24 | 0.24 | 10.3 | 2.45 | | | | | | | | |
| | | | | 0.99 | 0.19 | 0.19 | 10.3 | 1.94 | | | <u> </u> | | | <u> </u> | | |
| | | | | 0.99 | 0.13 | 0.13 | 10.3 | 1.33 | | | <u> </u> | | | ├── | | |
| | | | | | | | | | | | - | | | - | | |
| | | | | | | | | | | | | | | <u> </u> | \vdash | |
| | | | | | | | | | | | _ | | | | | |

| | | | | | | | | | | | | DATE: | 5/21/24 | PROJECT NO: | 230286 |
|------------------|--------------------------|-----------------------|-------|--------|--------------------|----------|-------------------|----------------------------|----------------------------------|-----------------------------|-----------------------------|-------|---------|-------------|--------|
| | | | | | | | STO | RM DRA | AIN PIPE | SIZE | | | | | |
| DESCRIPTION | ١ | | | | STOR | RM DRAIN | HYDRAL | JLICS | | | | | | NOTES | |
| AREA NO. | UPSTREAM STRUCTURE LABEL | TIME OF CONCENTRATION | ADDED | COMUL. | RAINFALL INTENSITY | RUNOFF | STORM DRAIN SLOPE | STORM DRAIN DIAMETER | STORM DRAIN STORM DRAIN MATERIAL | CAPACITY FLOWING FULL | VELOCITY FLOWING FULL | | | | |
| | Ŋ. | min | acres | acres | in/hr | cfs | ft/ft | in | | cfs | fps | | | | |
| | | | | | LINE 1 | | | | | | | | | | |
| 1+ROOF (LOT 6) | 1F | √ 5 | | 0.22 | 10.32 | 2.31 | 0.010 | 10 | PVC | 2.59 | 4.75 | | | | |
| 2 | 1E | √ 5 | 0.03 | 0.25 | 10.32 | 2.62 | 0.020 | 10 | PVC | 3.66 | 6.71 | | | | |
| 3 | 1D | √ 5 | 0.12 | 0.37 | 10.32 | 3.84 | 0.010 | 12 | HDPE | 3.86 | 4.91 | | | | |
| 4 | 1C | 4 5 | 0.50 | 0.87 | 10.32 | 8.95 | 0.010 | 18 | HDPE | 11.37 | 6.44 | | | | |
| 5 | 1B | 4 5 | 0.13 | 1.00 | 10.32 | 10.28 | 0.010 | 18 | HDPE | 11.37 | 6.44 | | | | |
| LINE 6 | 1A | 5 | 0.82 | 1.82 | 10.32 | 18.76 | 0.016 | 24 | HDPE | 30.98 | 9.87 | | | | |
| | | | | L | INE 2 | | | | | | | | | | |
| 7 | 2E | 5 | | 0.04 | 10.32 | 0.43 | 0.010 | 10 | PVC | 2.59 | 4.75 | | | | |
| 8 + LINE 3 | 2D | 5 | 0.11 | 0.16 | 10.32 | 1.60 | 0.020 | 10 | PVC | 3.66 | 6.71 | | | | |
| 9 | 2C | 4 5 | 0.31 | 0.46 | 10.32 | 4.77 | 0.010 | 15 | HDPE | 6.99 | 5.70 | | | | |
| 10 + LINES 4 & 5 | 2B | . 5 | 0.41 | 0.87 | 10.32 | 9.02 | 0.010 | 18 | HDPE | 11.37 | 6.44 | | | | |
| 11 | 2A | 5 | 0.23 | 1.10 | 10.32 | 11.37 | 0.010 | 18 | HDPE | 11.37 | 6.44 | | | | |
| | | | | L | INE 3 | | | | | | | | | | |
| 12 | 3A | 5 | | 0.02 | 10.32 | 0.15 | 0.040 | 6 | PVC | 1.33 | 6.75 | | | | |
| | | | | L | INE 4 | | | | | | | | | | |
| ROOF (LOT 8) | 4A | √ 5 | | 0.24 | 10.32 | 2.45 | 0.030 | 10 | PVC | 4.48 | 8.22 | | | | |
| | | | | L | INE 5 | | | | | | | | | | |
| 13 | 5B | √ 5 | | 0.05 | 10.32 | 0.46 | 0.010 | 8 | PVC | 1.43 | 4.09 | | | | |
| 14 | ΕΛ | <i>,</i> E | 0.06 | 0.11 | 10.22 | 100 | 0.020 | 0 | DVC | 0.47 | 7.00 | | | | |

6A 5 0.82 10.32 8.48 0.010 18 HDPE 11.37 6.44 LINE 7

1/2 ROOF (LOT 5) 7A <5 0.19 10.32 1.94 0.010 10 PVC 2.59 4.75 LINE 8

1/2 ROOF (LOT 5) + 15 8A <5 0.15 10.32 1.56 0.010 10 PVC 2.59 4.75

LINE 9

18 9A <5 0.16 10.32 1.65 0.100 8 PVC 4.51 12.94

REVISIONS:

ORIGINAL 05/22/2024

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

OF M/S

NATHAN THOMAS

PE-2003014960

NATHAN THOMAS ECKHOFF

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India Blud. Blud

ENGINEERING CONSULTANT
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292

www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#2000151301

DISCOVERY PARK LEES SUMMIT LLC 4220 PHILLIPS FARM RD COLUMBIA, MO 65201

1E VILLAGE AT DISCOVERY LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

100-YR STORM CALCULATIONS

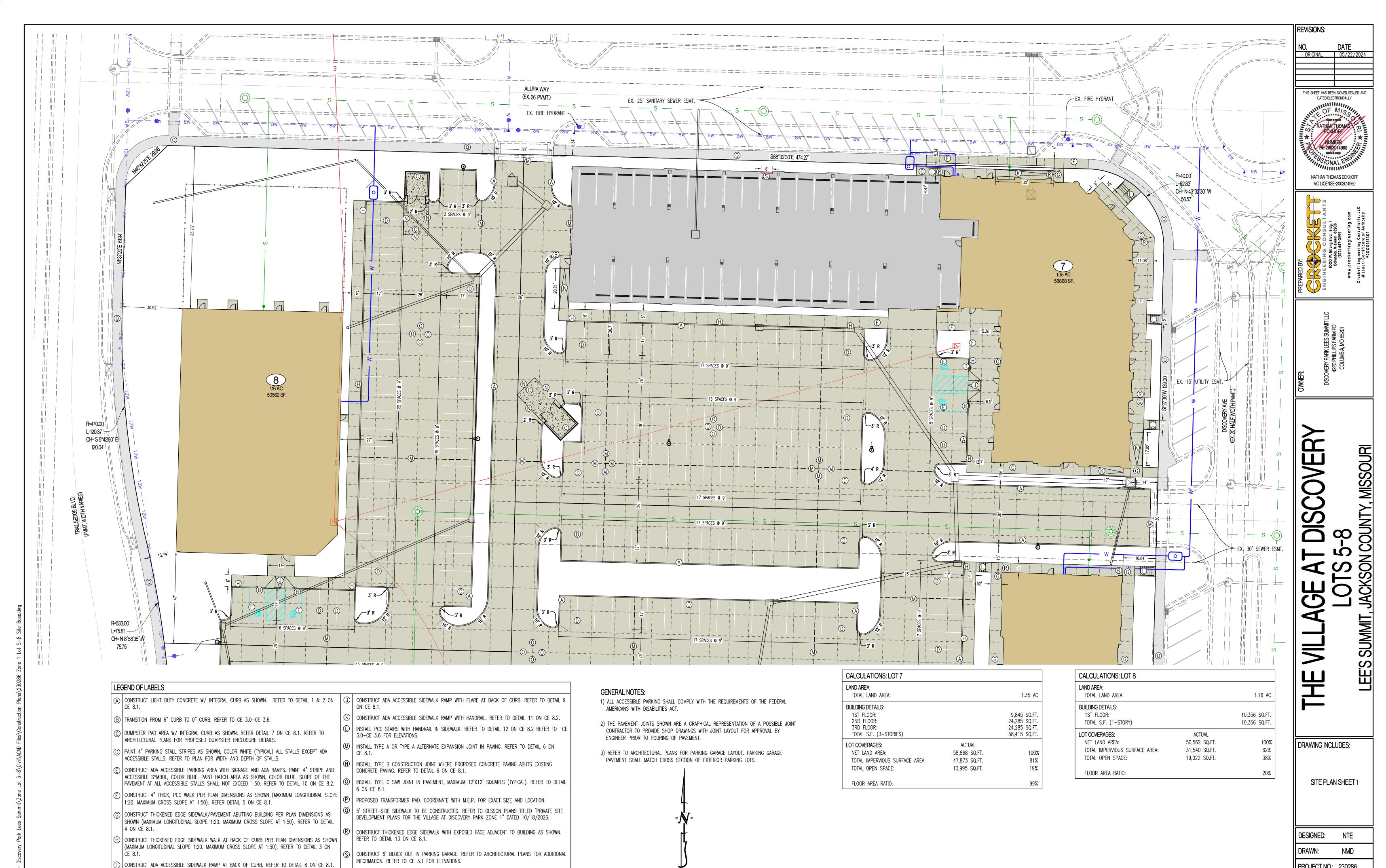
DESIGNED: NTE

DRAWN: NMD

PROJECT NO.: 230286

SHEET:

: CE 6.5

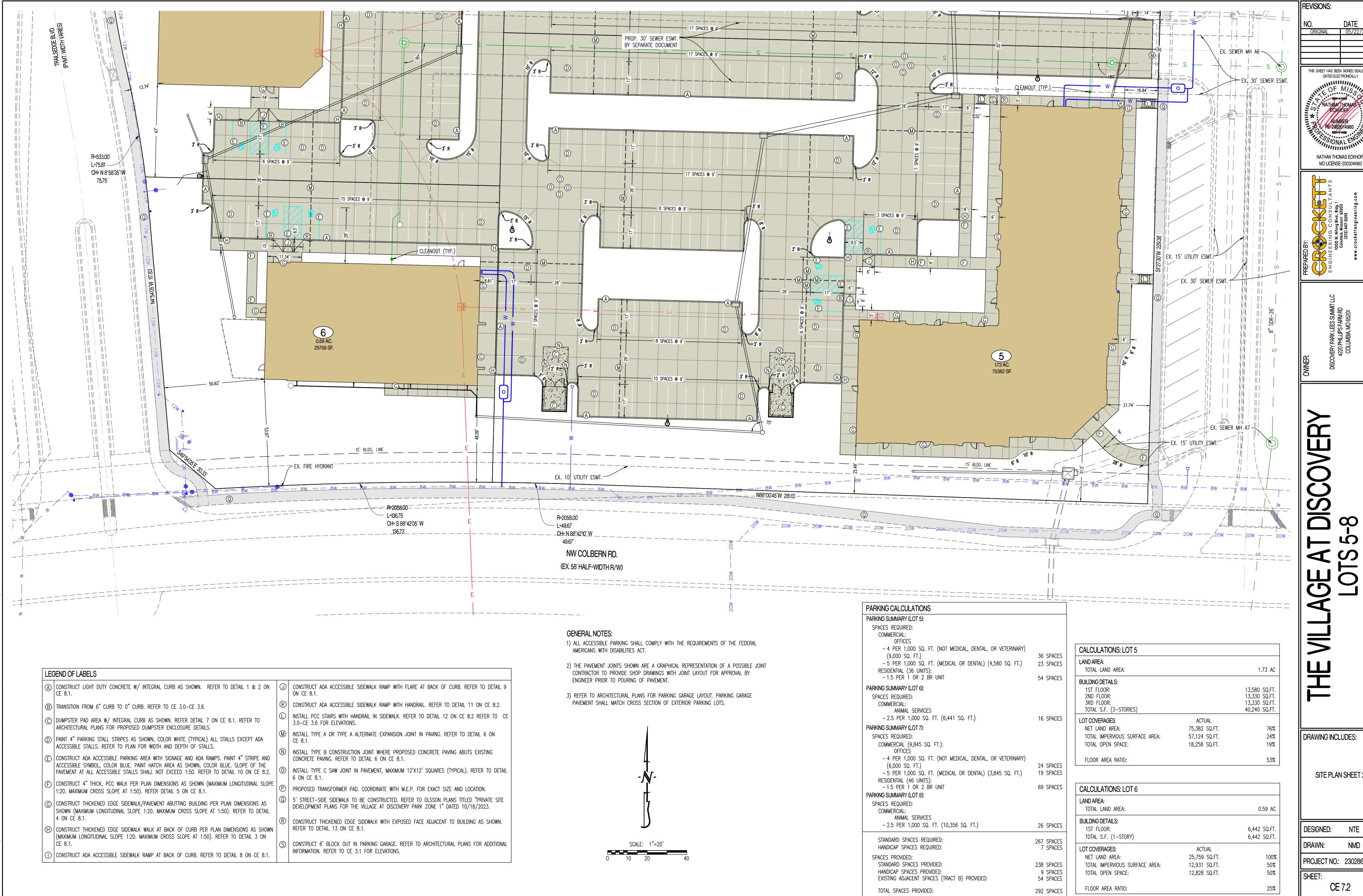


SCALE: 1"=20'

PROJECT NO.: 230286

CE 7.1

SHEET:



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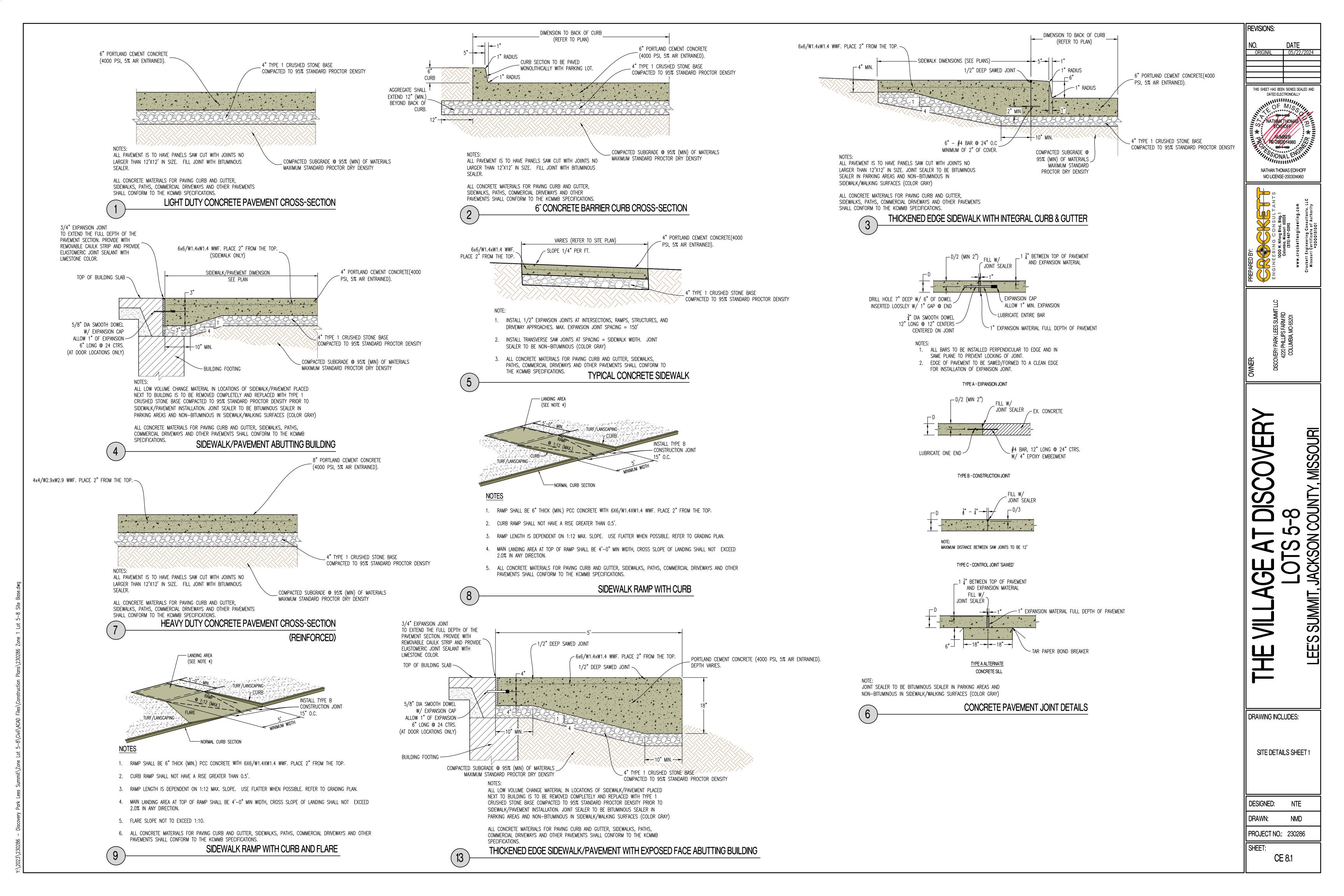
NATHAN THOMAS ECKHOFF

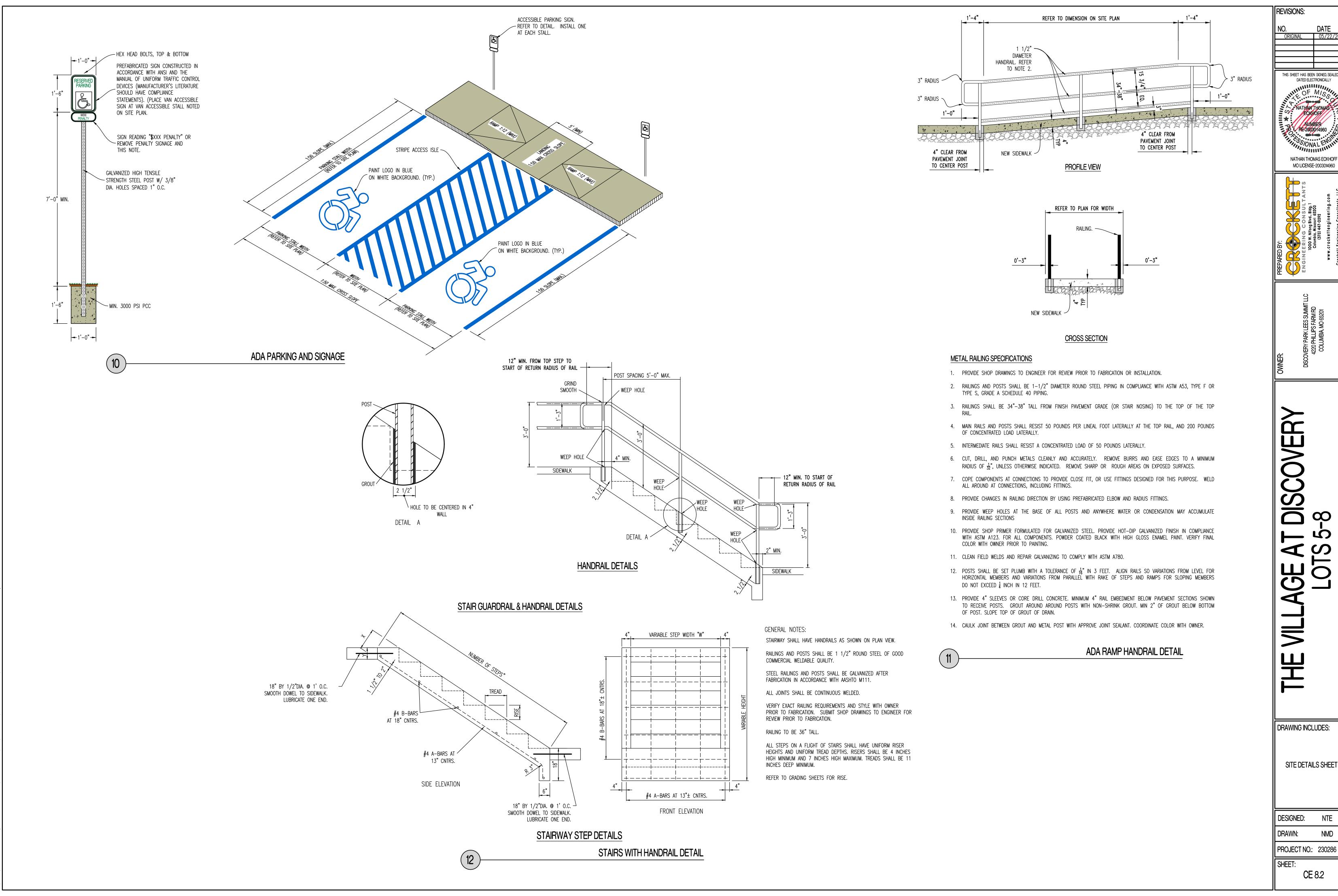
DRAWING INCLUDES:

SITE PLAN SHEET 2

NTE

NMD PROJECT NO.: 230286





REVISIONS:

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JACKSON COUNTY, SUMMIT EES

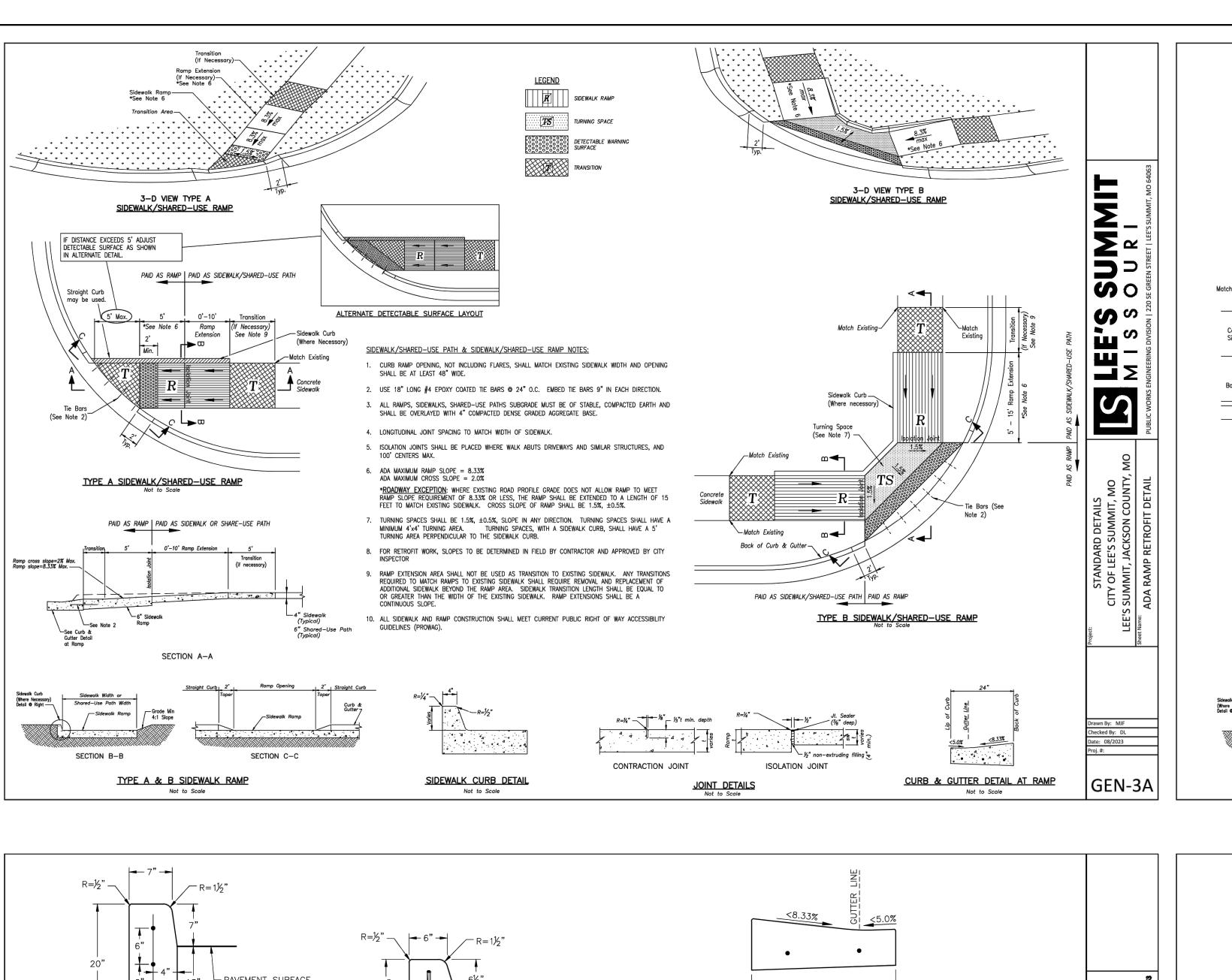
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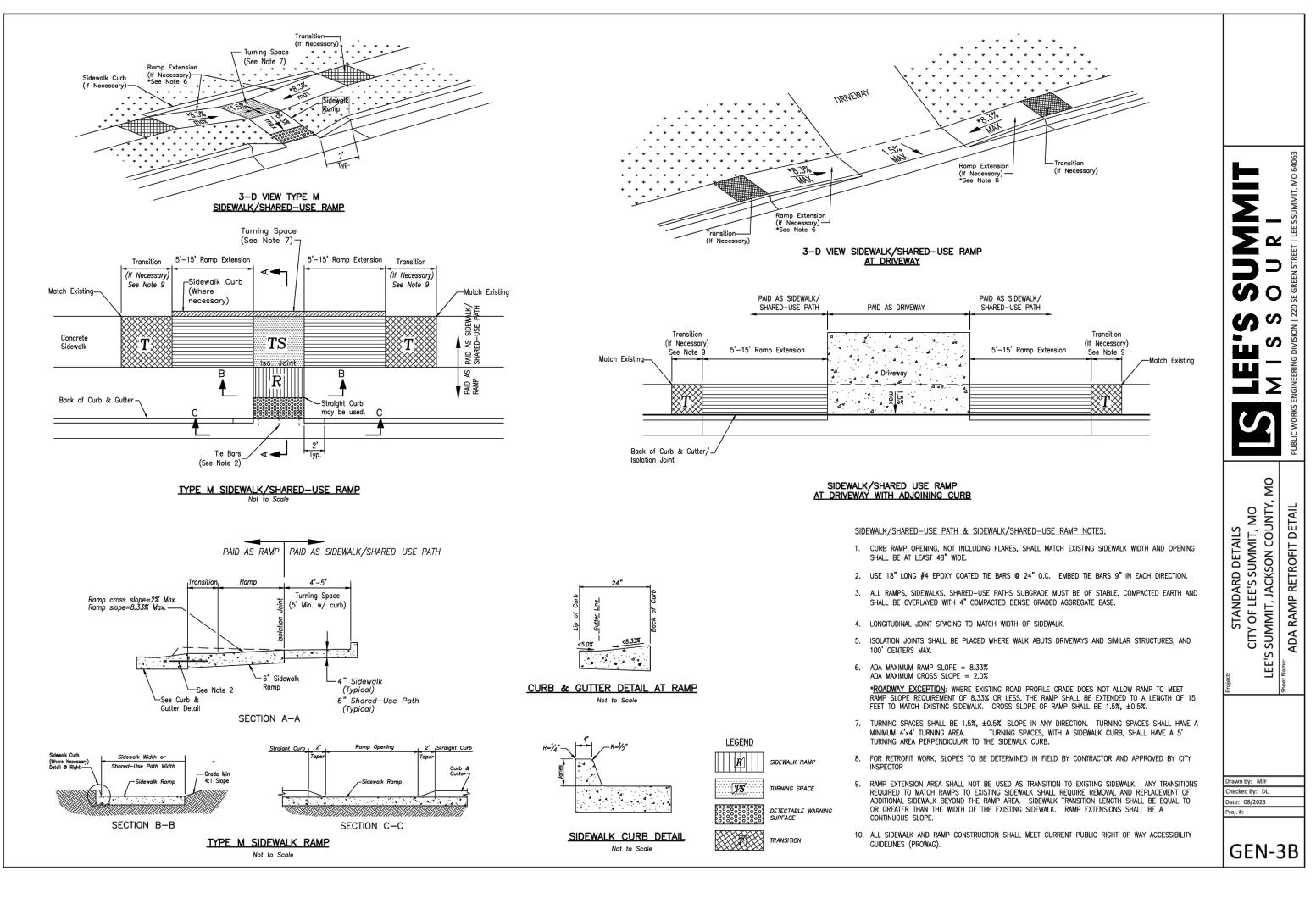
SITE DETAILS SHEET 2

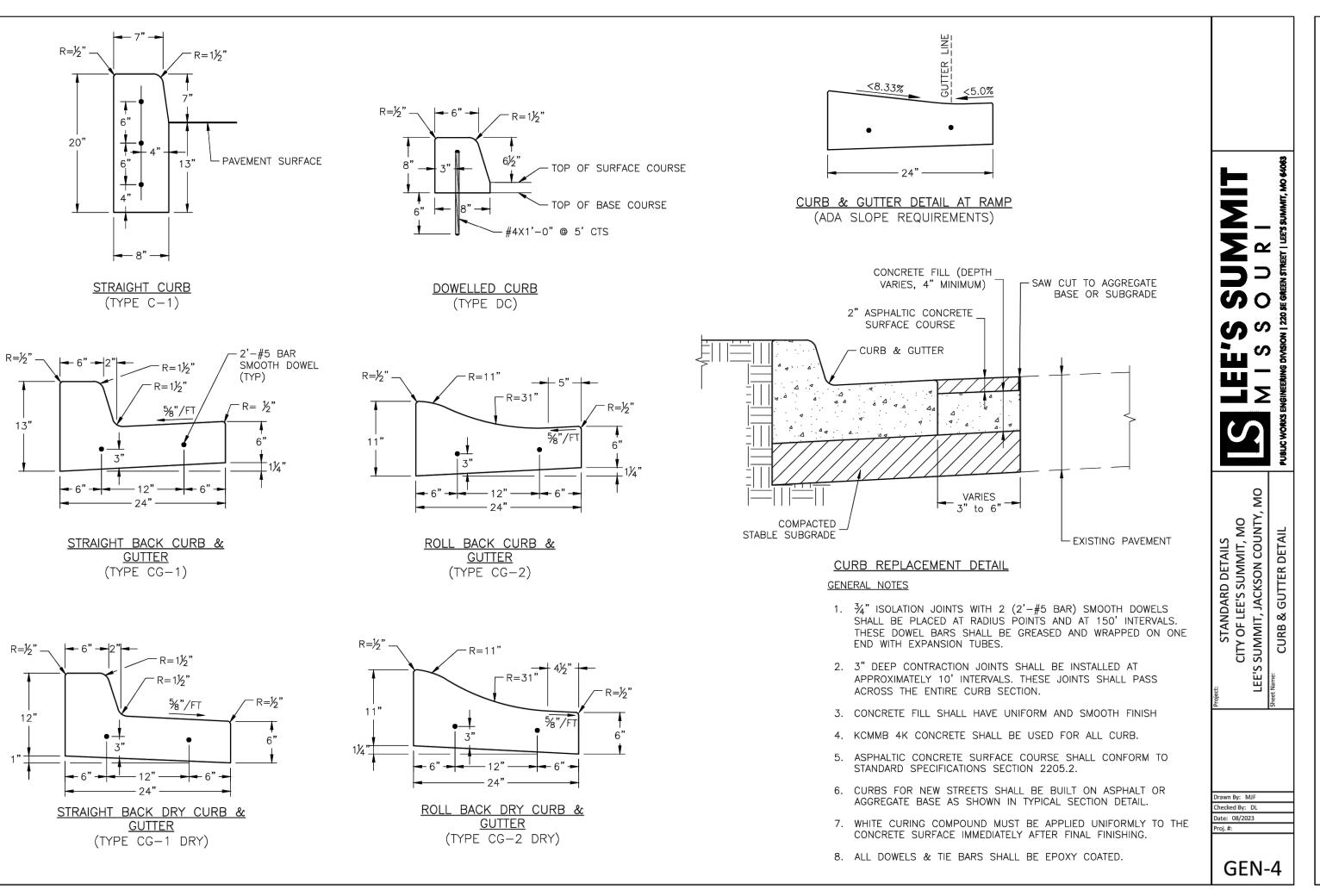
DESIGNED: NTE NMD

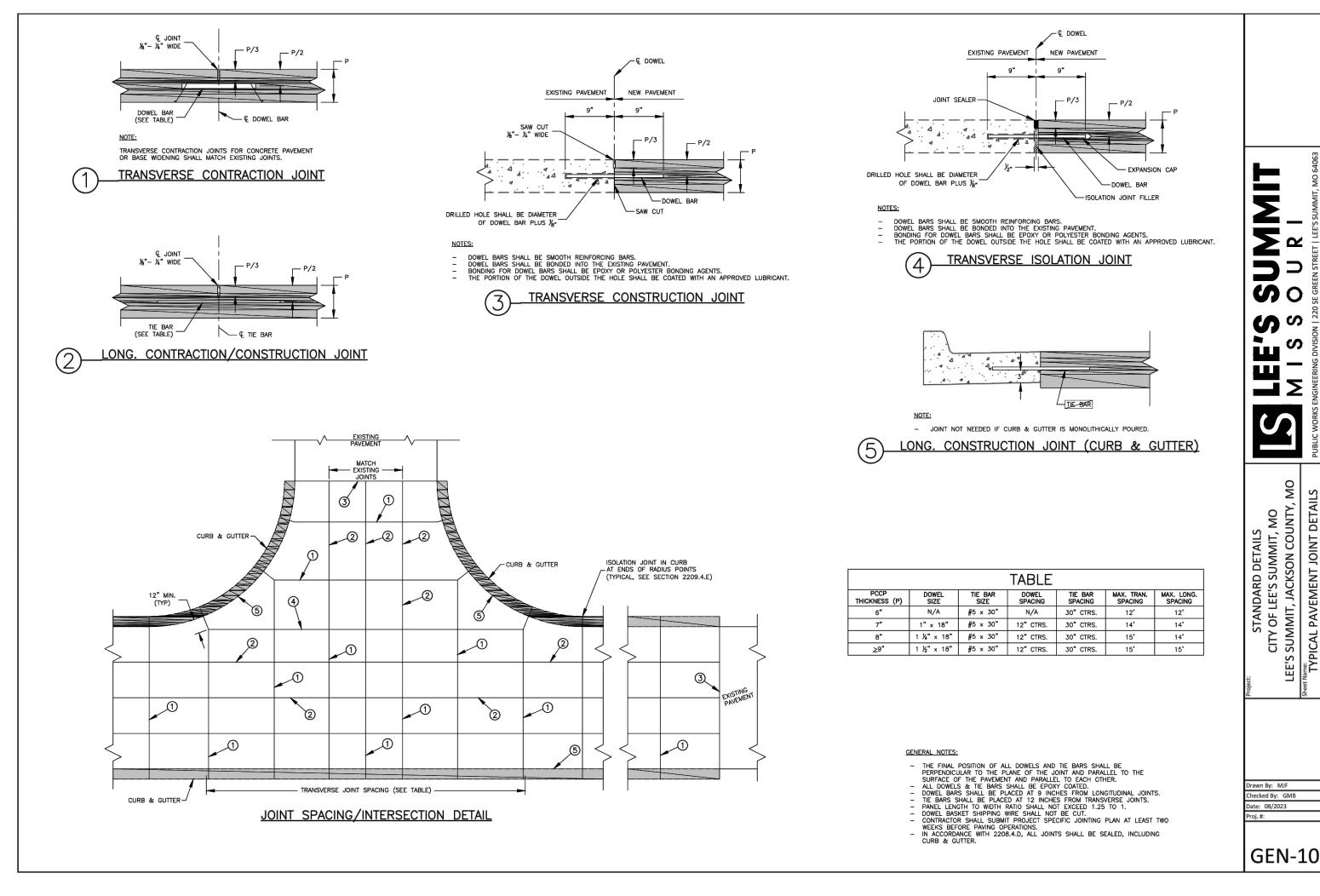
PROJECT NO.: 230286

CE 8.2









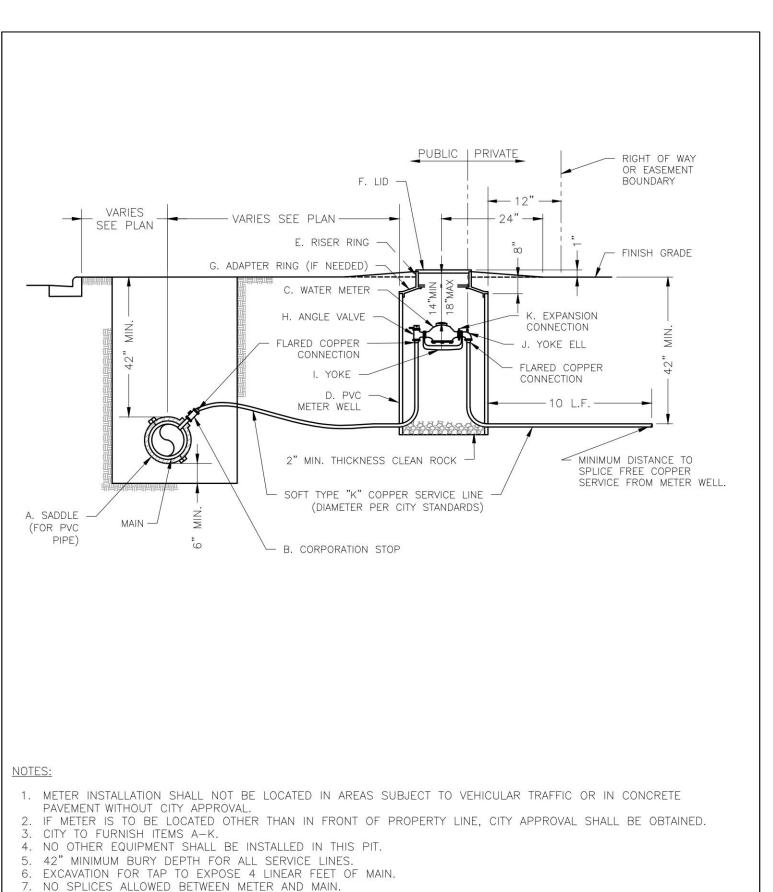


NATHAN THOMAS ECKHOFF MO LICENSE-2003014960

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REVISIONS:

PROJECT NO.: 230286 SHEET: CE 8.3



8. SERVICE CONNECTION TAP AT APPROXIMATELY 45 DEGREES.

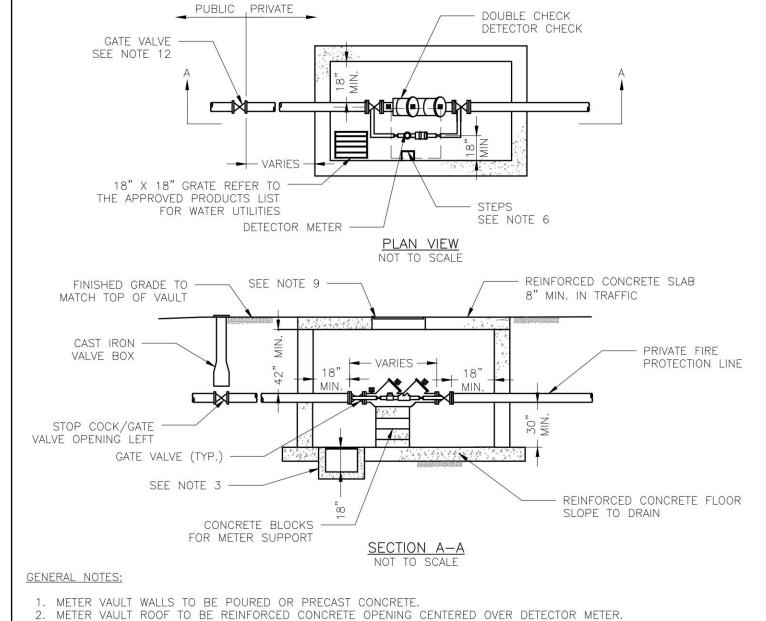
9 LID AND RISER RING SHALL BE SET SO THAT GROUND WATER WILL DRAIN AWAY FROM THE WELL.

LEE'S SUMMIT

MISSOURI

SERVICE CONNECTION WITH METER WELL

10. CONTACT WATER UTILITIES, 816-969-1900, FOR REQUIREMENTS OF A METER LARGER THAN 2"



METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA WHERE SURFACE WATER WILL NOT DRAIN INTO IT. VAULT MUST BE KEPT FREE OF WATER. PROVIDE CONCRETE SUMP AS A MINIMUM. WHERE PRACTICAL,

. ALL PIPE SHALL BE DUCTILE IRON CLASS 50. ALL PIPE FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT

6. STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16" . A DEPARTMENT OF NATURAL RESOURCES APPROVED DOUBLE CHECK DETECTOR CHECK BACKFLOW PREVENTER MUST

BE USED. FOR A COPY OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES APPROVED BACKFLOW PREVENTION ASSEMBLIES. CONTACT THE WATER UTILITIES OPERATIONS DIVISION AT 816-969-1940. AS OF JANUARY 1, 1987, THE

DNR REQUIRES FIRE SPRINKLER SYSTEMS USING CHEMICALS TO HAVE A DNR APPROVED PRESSURE BACKFLOW

9. FOR MANHOLE COVERS, SELECT A MANHOLE FOUND ON THE APPROVED PRODUCTS LIST FOR WATER UTILITIES

O. A MINIMUM OF 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.

IF PUBLIC WATER IS LOCATED ON THE OPPOSITE SIDE OF THE STREET, THEN THE PUBLIC WATER MAIN

RESPONSIBILITY OF THE WATER UTILITIES DEPARTMENT ENDS AT THE GATE VALVE NEAREST THE VAULT.

LEE'S SUMMIT

MISSOURI

VAULT FOR DOUBLE CHECK DETECTOR CHECK

INSTALLED SUMP PUMP.

ecked By: KLY

5. ALL FITTINGS TO BE BRASS.

SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.

PREVENTER INSTALLED, PRIOR TO THE MIXING POINT.

SUITABLE FOR EITHER TRAFFIC OR NON-TRAFFIC CONDITIONS.

METER SHALL BE OWNED AND MAINTAINED BY THE WATER UTILITIES DEPARTMENT.

. ALL VALVES SHALL HAVE RISING STEMS.

PROVIDE A 2" PIPE DRAIN WITH AN ABOVE-GROUND DISCHARGE POINT. PROJECT OWNER MAY DESIRE A PERMANENTLY

REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR MANHOLE CASTINGS --- FINISH GRADE PROVIDE JOINT SEALANT BETWEEN ALL JOINTS AND WRAP EXTERIOR OF JOINTS IN ACCORDANCE WITH SECTION 3500 12" MAXIMUM ADJUSTING RINGS AS REQUIRED 4" MIN (SEE NOTE 2) ' MIN IF < 24"Ø PIPE 5' MIN IF > 24"Ø PIPE - SPRING LINE - INTEGRAL CAST BASE - 6" OF COMPACTED BEDDING AGGREGATE ---- COMPACTED OR UNDISTURBED EARTH

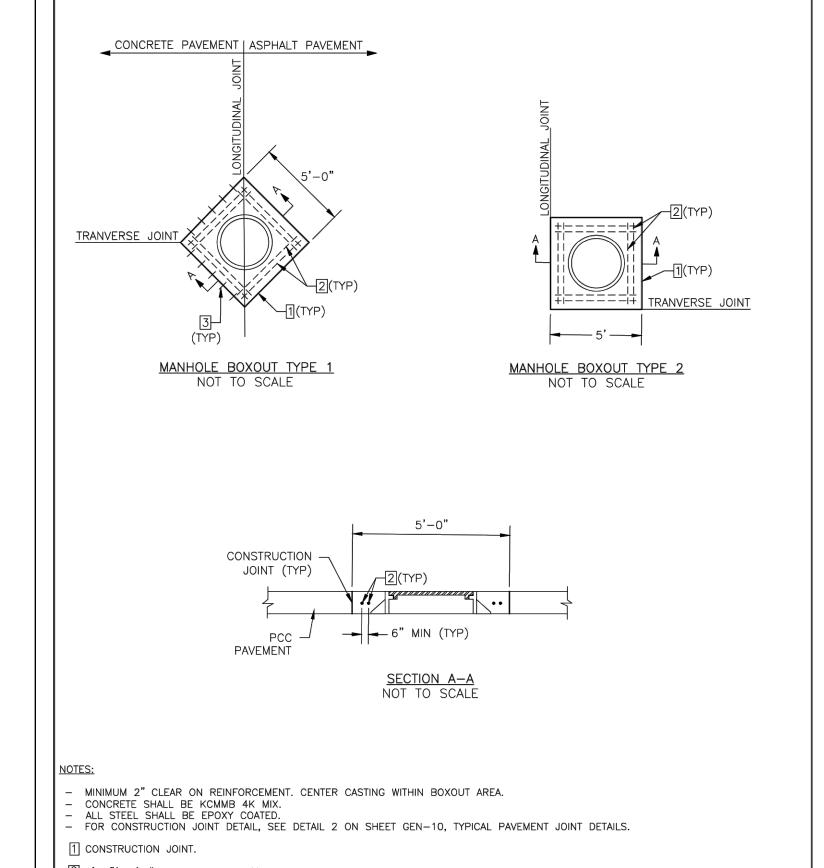
hecked By: KLY

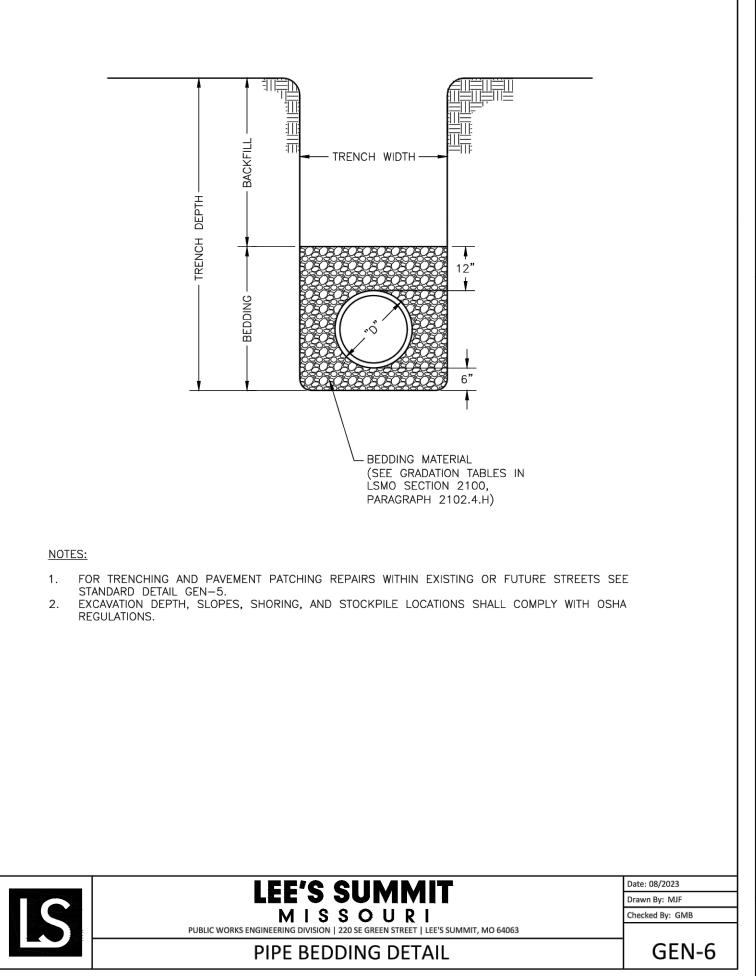
Drawn By: MJF

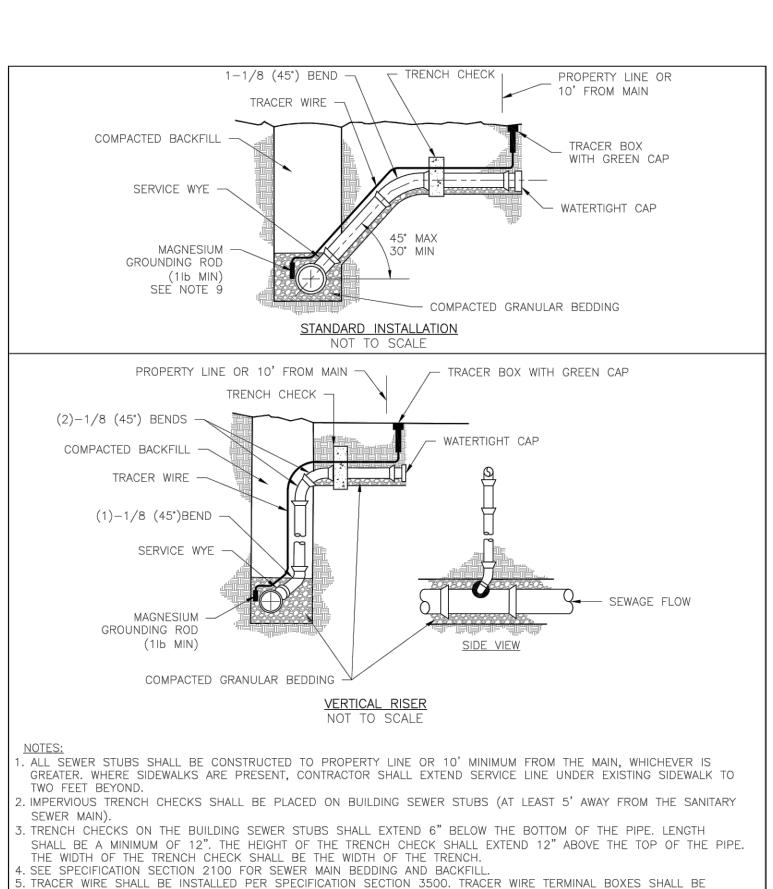
Checked By: AB

- . PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478 EXCEPT AS MODIFIED BY THE SPECIFICATIONS. 2. A WALL THICKNESS NOT LESS THAN ONE-TWELFTH $(rac{1}{12})$ OF THE INSIDE DIAMETER OR 4", WHICHEVER IS
- GREATER, SHALL BE USED WHEN THE MANHOLE DEPTH IS LESS THEN 15'. WATERPROOFING SHALL BE REQUIRED ON THE OUTSIDE OF MANHOLES. THE WATERPROOFING SHALL CONSIST OF A TOTAL DRY FILM THICKNESS OF NOT LESS THAN 14 MILS OF BITUMINOUS COATING.
- 4. ONLY ECCENTRIC MANHOLE CONES WILL BE ALLOWED UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. 5. THE FILL CONCRETE FLOW CHANNEL FOR SIDE BRANCHES SHALL BE PLACED TO PROVIDE A SMOOTH TRANSITION
- . REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR APPROVED MANHOLE GASKET MODELS.

| LEE'S SUMMIT | Date: 08/2023 |
|--|----------------|
| LEE 9 30 MINIT | Drawn By: MF |
| M I S S O U R I | Checked By: AB |
| PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 | |
| STANDARD SANITARY PRECAST MANHOLE | SAN-2 |
| STANDARD SANTART TRECAST MAINTOLE | 07 |







INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.

TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.

GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.

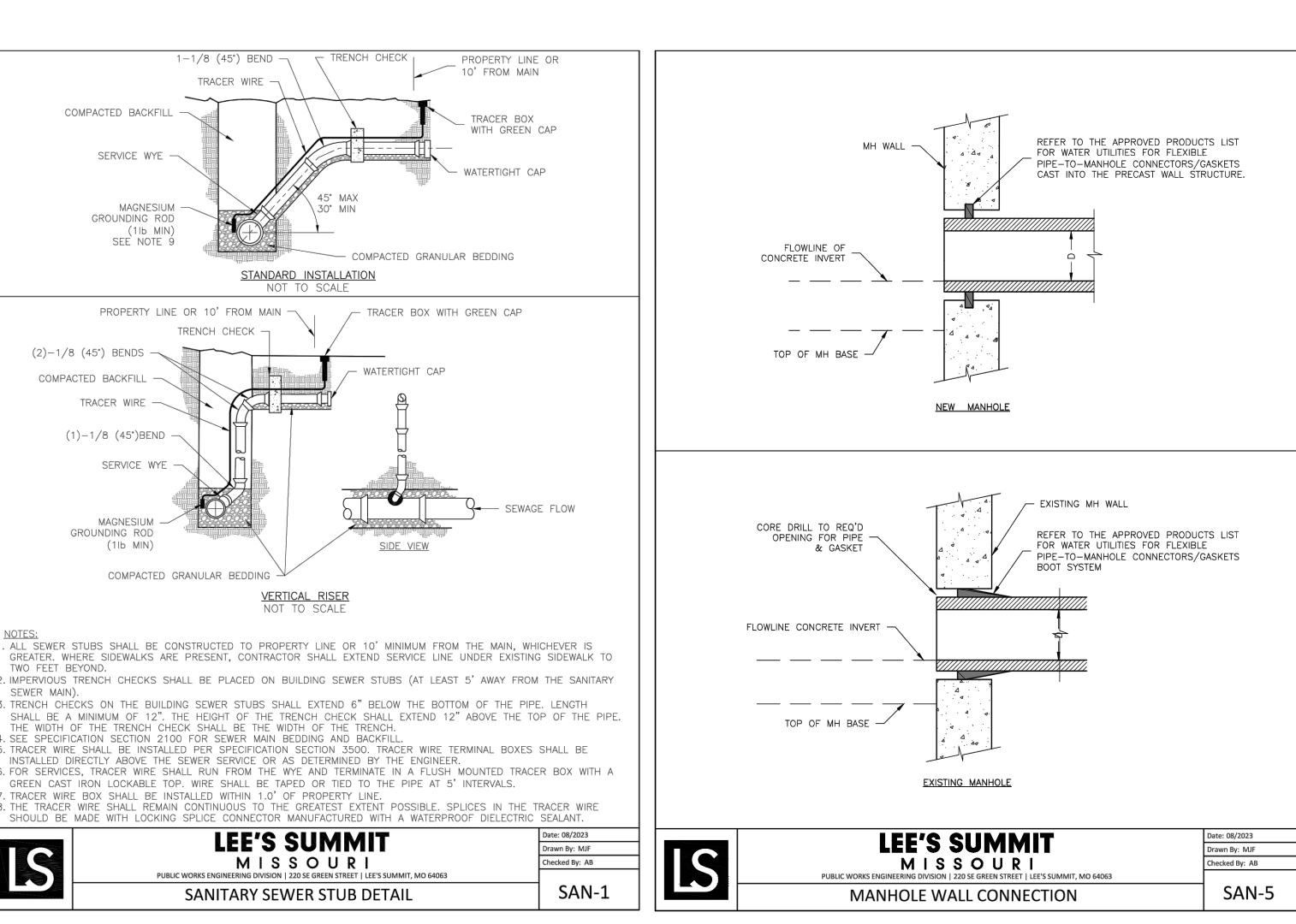
HE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE

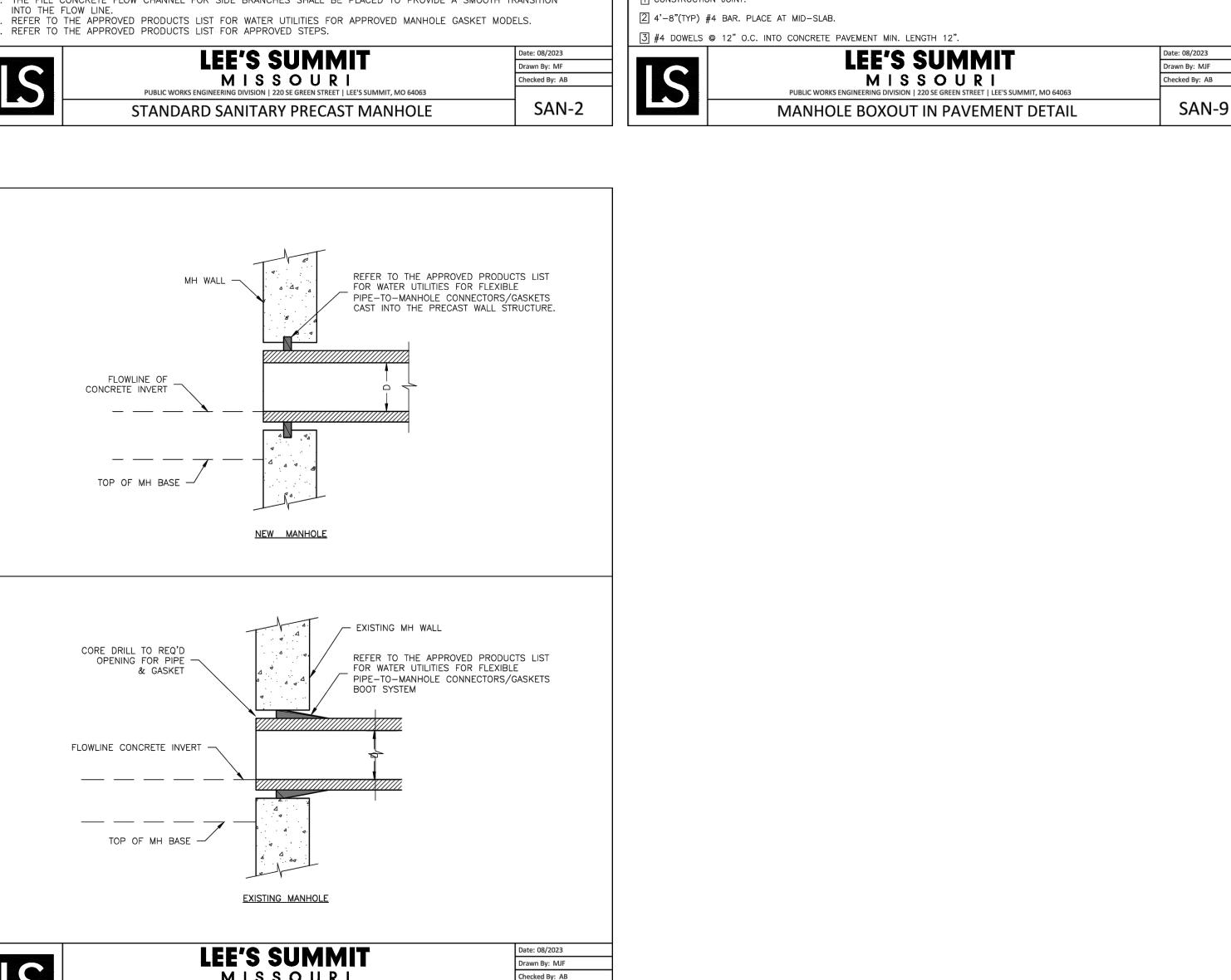
SHOULD BE MADE WITH LOCKING SPLICE CONNECTOR MANUFACTURED WITH A WATERPROOF DIELECTRIC SEALANT.

LEE'S SUMMIT

MISSOURI

SANITARY SEWER STUB DETAIL







SHEET:

CE 8.4

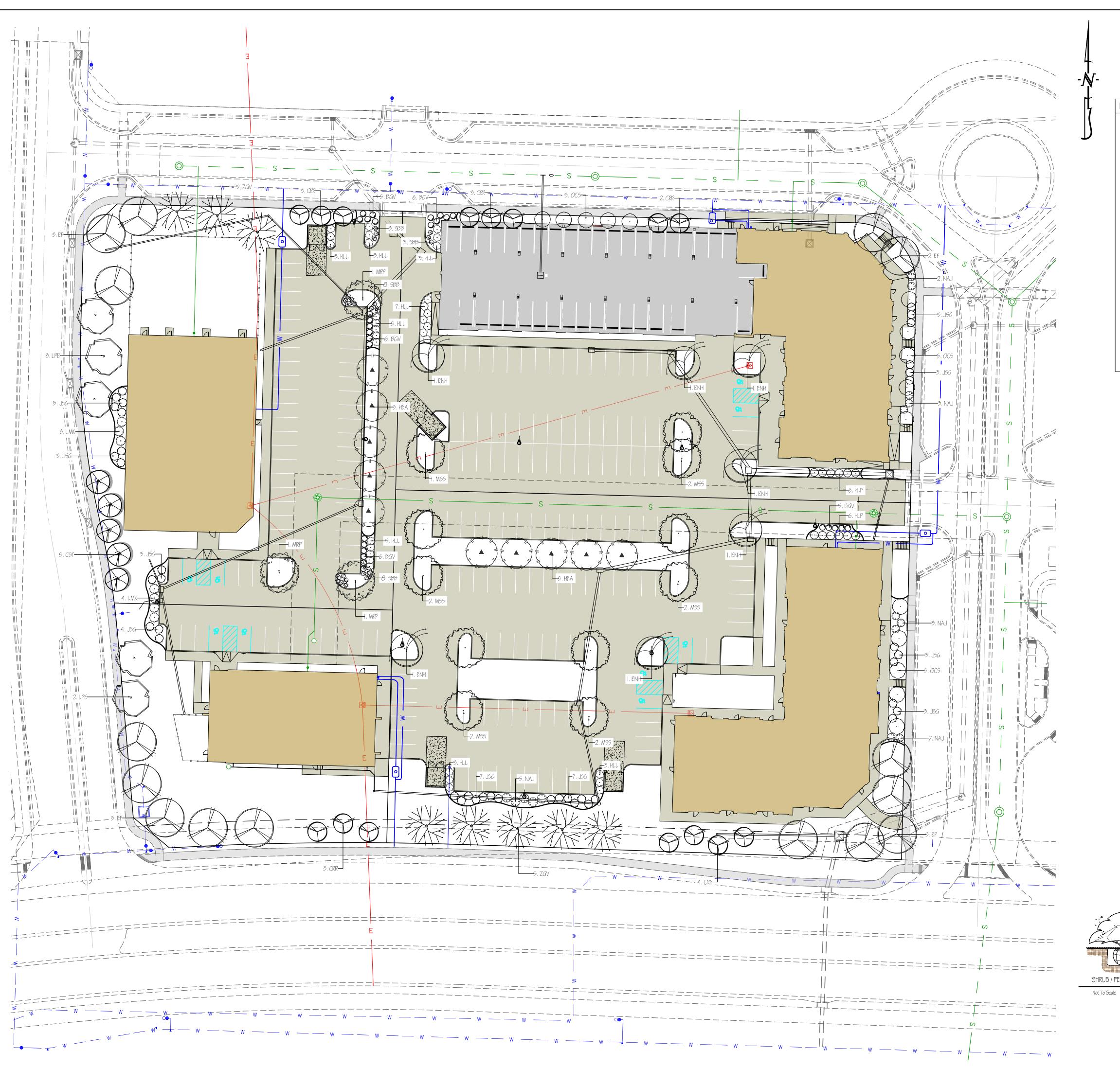
||REVISIONS:

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DATED ELECTRONICALLY

NATHAN THOMAS ECKHOFF

MO LICENSE-2003014960







LANDSCAPE COMPLIANCE: LOTS 5-8

LEE'S SUMMIT, MISSOURI

CODE OF ORDINANCES: DIVISION III - LANDSCAPING, BUFFERS, AND TREE PROTECTION SITE ZONED: CP-2, PROPOSED: PMIX

STREET FRONTAGE TREES

1 TREE PER 30 FEET OF STREET FRONTAGE

DISCOVERY AVE - 403 LF STREET FRONTAGE 14 TREES REQUIRED 14 TREES PROPOSED 18 TREES REQUIRED 18 TREES PROPOSED ALURA WAY - 512 LF STREET FRONTAGE 14 TREES REQUIRED 14 TREES PROPOSED TRAILSEDGE - 406 LF STREET FRONTAGE NW COLBURN RD - 484 LF STREET FRONTAGE 17 TREES REQUIRED 17 TREES PROPOSED

<u>OPEN YARD TREES</u>

1 TREE PER 5,000 SF OF TOTAL LOT AREA, EXCLUDING BUILDING FOOTPRINT TOTAL LOT AREA = 154,598 SF

31 TREES REQUIRED 31 TREES PROPOSED

STREET FRONTAGE SHRUBS

1 SHRUB PER 20 FEET OF STREET FRONTAGE

21 SHRUBS REQUIRED 21 SHRUBS PROPOSED DISCOVERY AVE - 403 LF STREET FRONTAGE 26 SHRUBS REQUIRED 26 SHRUBS PROPOSED ALURA WAY - 512 LF STREET FRONTAGE 21 SHRUBS REQUIRED 21 SHRUBS PROPOSED TRAILSEDGE - 406 LF STREET FRONTAGE NW COLBURN RD - 484 LF STREET FRONTAGE 25 SHRUBS REQUIRED 25 SHRUBS PROPOSED

<u>OPEN YARD SHRUBS</u>

2 SHRUBS PER 5,000 SF OF TOTAL LOT AREA, EXCLUDING BUILDING FOOTPRINT TOTAL LOT AREA = 154,598 SF

62 SHRUBS REQUIRED 62 SHRUBS PROPOSED

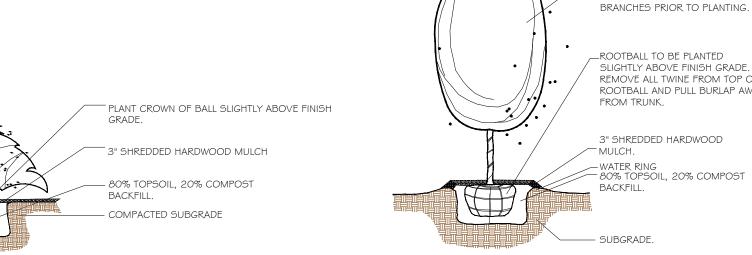
| PLANTING S | SCHEDULE: | | |
|------------|-----------|--|------------|
| QUANTITY | SYMBOL | PLANT NAME PLANT TYPE | SIZE |
| 15 | EF | ELM 'FRONTIER' MEDIUM / LARGE TREE | 3" |
| 8 | ZGV | ZELKOVA 'GREEN VASE' MEDIUM / LARGE TREE | 3" |
| 11 | MSS | MIYABI MAPLE 'STATE STREET' MEDIUM / LARGE TREE | 3" |
| 5 | LPE | LONDON PLANETREE 'EXCLAMATION' MEDIUM / LARGE TREE | 3" |
| 7 | ENH | ELM 'NEW HORIZON' MEDIUM / LARGE TREE | 3" |
| 15 | ocs | OAK 'CRIMSON SPIRE' MEDIUM / LARGE TREE | 3" |
| 10 | HEA | HORNBEAM 'EMERALD AVE' MEDIUM / LARGE TREE | 3" |
| 3 | MRP | MAPLE 'RED POINTE' MEDIUM / LARGE TREE | 3" |
| 5 | CST | CRABAPPLE 'SUGARTYME' ORNAMENTAL TREE | 2" |
| 15 | CRR | CRABAPPLE 'ROYAL RAINDROPS' ORNAMENTAL TREE | 2" |
| 15 | NAJ | NINEBARK 'AMBER JUBILEE' DECIDUOUS SHRUB | #5 |
| 32 | HLL | HYDRANGEA 'LITTLE LIME' DECIDUOUS SHRUB | #5 |
| 7 | LMK | LILAC 'MISS KIM' DECIDUOUS SHRUB | #5 |
| 12 | HLP | HYDRANGEA 'LITTLE LIME PUNCH' FLOWERING SHRUB | #5 |
| 22 | SBB | SPIREA 'BIG BANG' DECIDUOUS SHRUB | # 5 |
| 28 | BGV | BOXWOOD 'GREEN VELVET' EVERGREEN SHRUB | #5 |
| 40 | JSG | JUNIPER 'SEA GREEN' EVERGREEN SHRUB | #5 |

- THE PLANT LIST IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL PLANT COUNTS AND IF A DISCREPANCY EXISTS THE PLAN SHALL GOVERN. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING AWARE OF ALL UNDERGROUND UTILITIES, PIPES, AND STRUCTURES. THE LANDSCAPE
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONTACTING ALL UTILITY
 COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION. LANDSCAPE CONTRACTOR TO RECEIVE SITE GRADED TO +/-0.10 FOOT OF FINISHED GRADE. PLANTING BACK FILL MIX IS TO CONSIST OF 80% NATIVE TOPSOIL, AND 20% ORGANIC MATTER.

SHRUB BEDS, BERMS, AND TREE WELLS ARE TO BE MULCHED WITH 3-4" DYED HARDWOOD MULCH.

PLANT LOCATIONS MAY BE ADJUSTED ONSITE TO AVOID UTILITIES, SITE FEATURES, ETC.

ALL BED AND LAWN AREAS SHALL BE IRRIGATED. ALL LAWN AREAS TO BE SODDED WITH TALL FESCUE SOD. LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF TWELVE MONTHS. ALL PLANTING BEDS AND TREE RINGS TO BE SEPERATED FROM TURF AREAS BY 'V' TRENCHING. ALL PLANT MATERIAL MUST MEET THE SPECIFICATIONS OF THE AMERICAN ASSOCIATION OF NURSERYMEN.



SHRUB / PERENNIAL PLANTING DETAIL

Not To Scale

ROOTBALL TO BE PLANTED SLIGHTLY ABOVE FINISH GRADE. REMOVE ALL TWINE FROM TOP OF ROOTBALL AND PULL BURLAP AWAY 3" SHREDDED HARDWOOD WATER RING 80% TOPSOIL, 20% COMPOST

PRUNE OUT DEAD OR DAMAGED

DECIDUOUS TREE PLANTING DETAIL

DESIGNED: DRAWN:

DRAWING INCLUDES:

LANDSCAPING PLAN

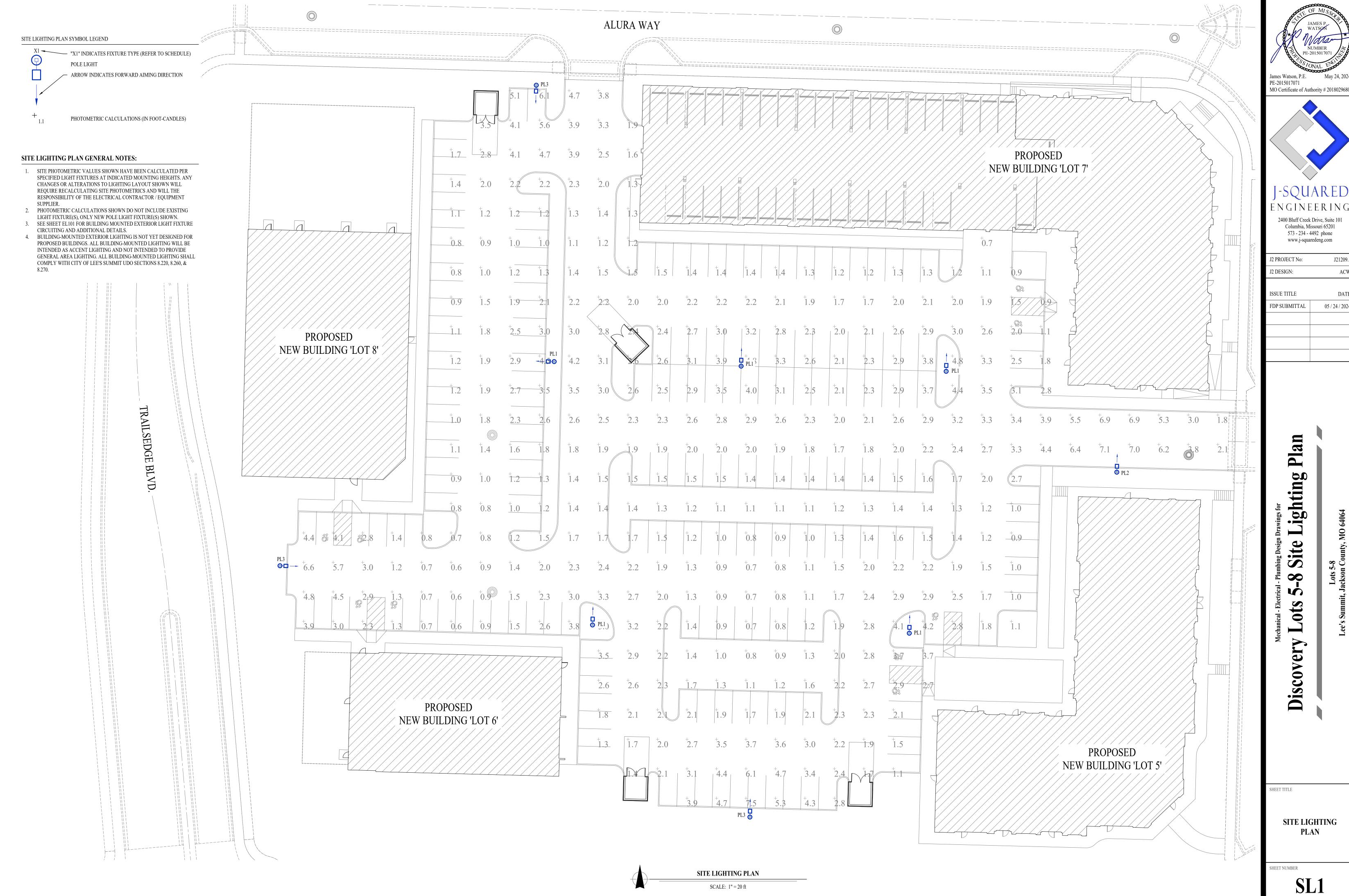
PROJECT NO.: 230286

REVISIONS:

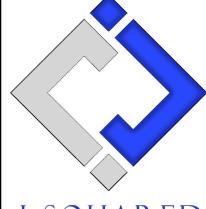
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

NATHAN THOMAS ECKHOFF

MO LICENSE-2003014960



MO Certificate of Authority # 2018029680

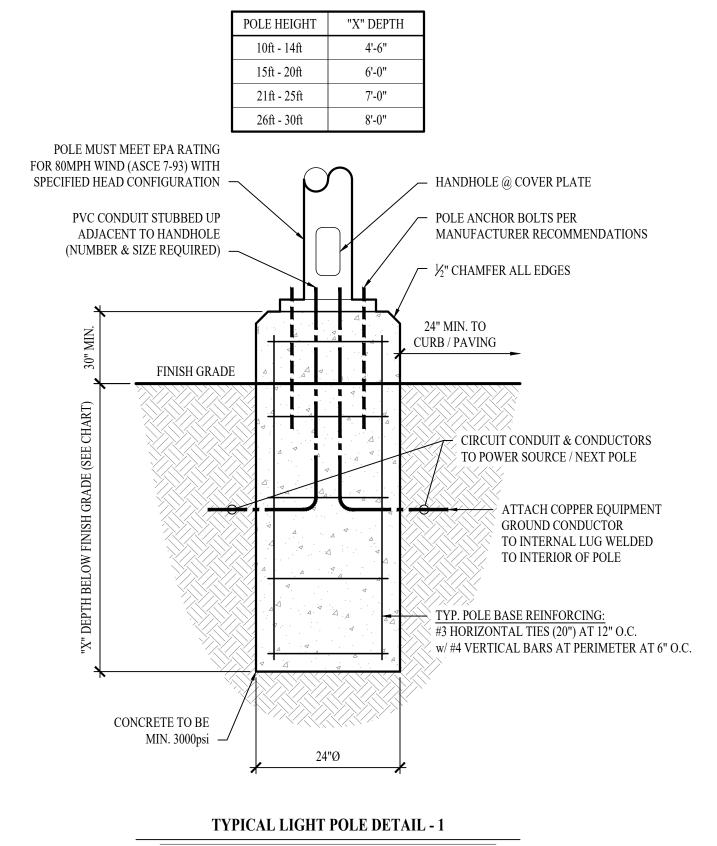


| J2 PROJECT No: | J21209.1 |
|----------------|----------------|
| J2 DESIGN: | ACW |
| | |
| ISSUE TITLE | DATE |
| FDP SUBMITTAL | 05 / 24 / 2024 |
| | |
| | |
| | |

| SITE LIGHTING CALCULATION SUMMARY | | | | | | | | | | | |
|-----------------------------------|------|---------|---------|---------|---------|---------|--|--|--|--|--|
| AREA | UNIT | AVERAGE | MAXIMUM | MINIMUM | AVG:MIN | MAX:MIN | | | | | |
| PARKING/DRIVE-AISLES | FC | 2.25 | 7.5 | 0.6 | 3.8 | 12.5 | | | | | |
| | | | | | | | | | | | |

| SITE LIGHTING FIXTURE SCHEDULE | | | | | | | | | | |
|--------------------------------|----------------------------|----------------------------|-------------|-----------------------|-----------------|----------|-----|-------|-------|--|
| TAG | MANUFACTURER (OR EQUAL) | MODEL NUMBER (OR EQUAL) | DESCRIPTION | MOUNTING | LUMEN OUTPUT | CCT (°K) | CRI | VOLTS | WATTS | NOTES |
| PL1 | MCGRAW-EDISON | PRV-XL-PA4A-740-U-5WQ | POLE LIGHT | 20' POLE ON 30" BA SE | 35,079 | 4000 | 70 | 208 | 245 | WITH #MS/DIM-L40W MOTION SENSING DIMMING |
| PL2 | MCGRAW-EDISON | PRV-XL-PA4B-740-U-T3 | POLE LIGHT | 20' POLE ON 30" BASE | 36,002 | 4000 | 70 | 208 | 303 | WITH #MS/DIM-L40W MOTION SENSING DIMMING |
| PL3 | MCGRAW-EDISON | PRV-XL-PA4B-740-U-T4W-HSS | POLE LIGHT | 20' POLE ON 30" BASE | 28,286 | 4000 | 70 | 208 | 303 | WITH #MS/DIM-L40W MOTION SENSING DIMMING |
| | | | | | | | | | | |
| NOTES: | | | | | | | | | | |

1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION



James Watson, P.E. May 24, 2024 PE-2015017071 MO Certificate of Authority # 2018029680



2400 Bluff Creek Drive, Suite 101 Columbia, Missouri 65201

573 - 234 - 4492 phone www.j-squaredeng.com

| J2 PROJECT No: J21209.1 J2 DESIGN: ACW ISSUE TITLE DATE FDP SUBMITTAL 05 / 24 / 2024 | | | | | | | |
|---|----------------|----------------|--|--|--|--|--|
| ISSUE TITLE DATE | J2 PROJECT No: | J21209.1 | | | | | |
| | J2 DESIGN: | ACW | | | | | |
| | | | | | | | |
| FDP SUBMITTAL 05 / 24 / 2024 | ISSUE TITLE | DATE | | | | | |
| | FDP SUBMITTAL | 05 / 24 / 2024 | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Lighting

Site Lots Discovery

SHEET TITLE

SITE LIGHTING **PLAN**

SHEET NUMBER

PRINTS ISSUED 05/10/2024 - FDP PLAN LEGEND REVISIONS: PARTIAL HEIGHT PARTITION NON-RATED PARTITION; SEE ASSEMBLIES 1 HR RATED PARTITION; SEE ASSEMBLIES ☐ A1 ☐ WINDOW TYPE; SEE WINDOW SCHEDULE DOOR TYPE; SEE DOOR SCHEDULE OSemanr & ASSOC

P7 PARTITION TYPE; SEE ASSEMBLIES FRAMING DIMENSIONS 6'-0" LAYOUT LAYOUT LAYOUT LAYOUT LINE DIMENSIONS

+/- 61' - 0"

A-203 4>

A-203 2>

A1 1ST FLOOR PLAN - FDP 1/16" = 1'-0"

A-203

+/- 70' - 0"

A-203

<2 A-202

A-202

PRELIMINARY NOT FOR CONSTRUCTION

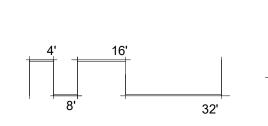
LEE'S

SHEET TITLE FIRST FLOOR PLAN

SHEET NUMBER:

PROJECT NUMBER: 23102

A-101.



PRINTS ISSUED

05/10/2024 - FDP

REVISIONS:

PLAN LEGEND NON-RATED PARTITION; SEE ASSEMBLIES 1 HR RATED PARTITION; SEE ASSEMBLIES ☐ A1 ☐ WINDOW TYPE; SEE WINDOW SCHEDULE DOOR TYPE; SEE DOOR SCHEDULE P7 PARTITION TYPE; SEE ASSEMBLIES FRAMING DIMENSIONS 6'-0"LAYOUT LAYOUT LAYOUT LAYOUT LINE DIMENSIONS

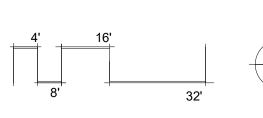
> PRELIMINARY NOT FOR CONSTRUCTION

OSemanr & ASSOC

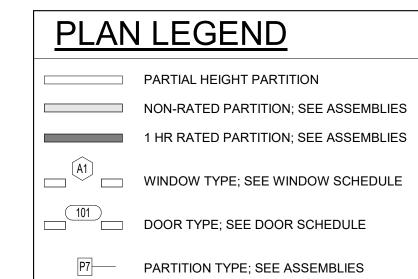
SHEET TITLE SECOND FLOOR PLAN PROJECT NUMBER: 23102

SHEET NUMBER:

A-102.



REFERENCE G-003 FOR GENERAL NOTES REFERENCE A-101 FOR PLAN LEGEND



FRAMING DIMENSIONS

6'-0"LAYOUT LAYOUT LAYOUT LINE DIMENSIONS

PRINTS ISSUED 05/10/2024 - FDP

REVISIONS:



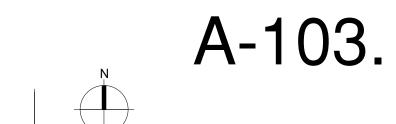
PRELIMINARY NOT FOR CONSTRUCTION

DISCOVERY LEE'S THE VILL

SHEET NUMBER:

PROJECT NUMBER: 23102

SHEET TITLE THIRD FLOOR PLAN





PRINTS ISSUED

05/10/2024 - FDP **REVISIONS:**

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PRELIMINARY

NOT FOR

CONSTRUCTION

DISCOVERY UMMIT, MO S **LEE'S**

SHEET TITLE **EXTERIOR ELEVATIONS COLOR**

SHEET NUMBER:

뽀

PROJECT NUMBER: 23102

KING SIZE BRICK - COLOR 1 - ALLENDALE HILL

KING SIZE BRICK - COLOR 2 - GLEN GERY SADDLE BROWN

KING SIZE BRICK - COLOR 3 - CAVALRY GRAY

STONE CAP - ROUGH ASHLAR

LARGE FORMAT MASONRY - ROUGH ASHLAR

PRINTS ISSUED

05/10/2024 - FDP

REVISIONS:



BRICK BAND, TYP. TRUSS BEARING 138' - 3" BRICK - COLOR 2 @ RECESS, TYP. T.O. 3rd SUBFLOOR 128' - 1 7/8" BRICK - COLOR 3, ____ TYP. T.O. 3rd BEARING 126' - 1 1/8" KING SIZE BRICK, TYP. TOP OF 2nd FLOOR 116' - 0" BRICK BAND, TYP. PRE-FAB METAL CANOPY W/ RECESSED LIGHTING, TYP. **EXTERIOR** LIGHTING, TYP. LARGE FORMAT T.O. 1st FLOOR SLAB 100' - 0" MASONRY

NORTH ELEVATION 1 - COLOR

EXTERIOR ——LIGHTING, TYP. PRE-FAB METAL BALCONY & RAILING, TYP. BRICK BAND, TYP. TRUSS BEARING 138' - 3" T.O. 3rd SUBFLOOR 128' - 1 7/8" EXTERIOR -LIGHTING, TYP._ T.O. 3rd BEARING 126' - 1 1/8" BRICK BAND — SURROUNDING BRICK - COLOR 3, TYP. KING SIZE BRICK, TOP OF 2nd FLOOR 116' - 0" BRICK BAND, TYP. PRE-FAB METAL
CANOPY W/
RECESSED LIGHTING, TYP. LARGE FORMAT MASONRY

BRICK BAND, TYP. TRUSS BEARING 138' - 3" BRICK - COLOR 2 @ RECESS, TYP. BRICK BAND — SURROUNDING BRICK - COLOR 3, TYP. BRICK - COLOR 3, T.O. 3rd SUBFLOOR 128' - 1 7/8" EXTERIOR ——LIGHTING, TYP. T.O. 3rd BEARING 126' - 1 1/8" KING SIZE BRICK, TYP. PRE-FAB METAL BALCONY & RAILING, TYP. TOP OF 2nd FLOOR 116' - 0" BRICK BAND, TYP. PRE-FAB METAL

CANOPY W/
RECESSED LIGHTING, TYP. LARGE FORMAT MASONRY

THE VILLAGE AT DISCOVERY LOT 5
LEE'S SUMMIT, MO

OSemann & ASSOCIA

PRELIMINARY

NOT FOR

CONSTRUCTION

SHEET TITLE
EXTERIOR ELEVATIONS COLOR

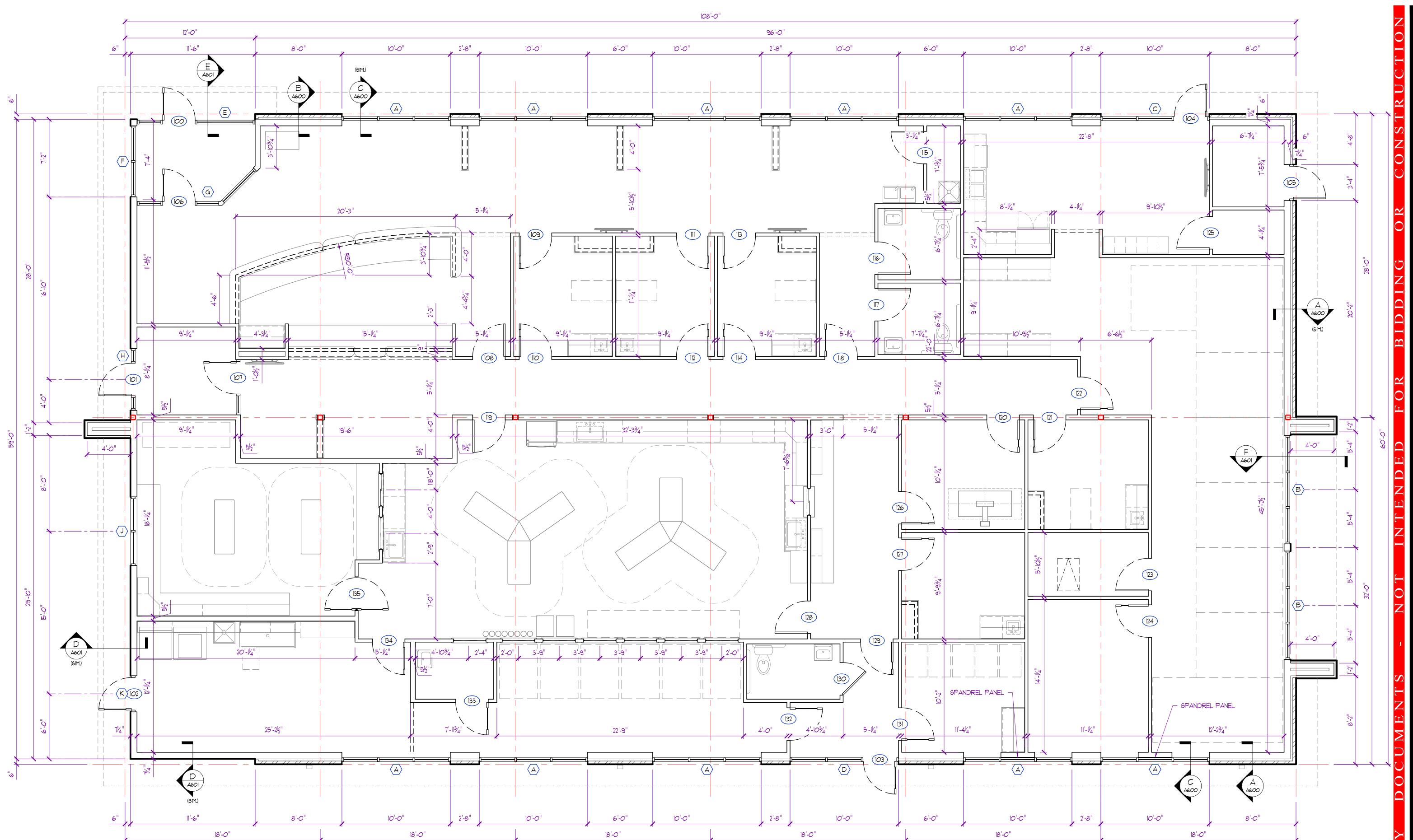
PROJECT NUMBER: 23102
SHEET NUMBER:

A-203

2 WEST ELEVATION 1 - COLOR

WEST ELEVATION 2 - COLOR

1 SOUTH ELEVATION - COLOR



FLOOR PLAN GENERAL NOTES:

- 1. ALL WORK SHALL CONFORM TO ALL STATE, LOCAL, AND/OR ANY AUTHORITY HAVING JURISDICTION.
- 2. ALL DIMENSIONS SHOWN ARE TO FACE OF MASONRY / STUD OR
- CENTERLINE OF COLUMN / BEAM UNLESS NOTED OTHERWISE. 3. ALL INTERIOR WALL PARTITIONS ARE TO BE 2x4 WOOD STUD FRAMING @ 16" O.C. MAX. W/ %" GYPSUM BOARD ON EACH SIDE UNLESS NOTED
- OTHERWISE, 4. INTERIOR WALLS & GYPSUM BOARD TO EXTEND A MIN. OF 6" ABOVE
- FINISH CEILING, (SEE A300 FOR WALL HEIGHT DIAGRAM) 5. CONTRACTOR TO PROVIDE TEMPORARY & PERMANENT BRACING AS REQUIRED. INTERIOR PARTITIONS TO HAVE DIAGONAL BRACING TO

STRUCTURE @ 4'-0" O.C. WHERE APPLICABLE.

- 6. ALL DOORS TO HAVE A MIN. OF 6" FROM HINGE JAMB TO ADJACENT
- WALL UNLESS NOTED OTHERWISE. 7. INSTALL 4" ACOUSTICAL BATT INSULATION ON CEILING A MIN. OF 24"
- FROM COMMON WALLS FOR ADDITIONAL SOUND DEADENING AS NECESSARY, (COORDINATE LOCATIONS WITH OWNER / TENANT)
- 8. ALL EQUIPMENT, APPLIANCES, & FURNITURE SHOWN FOR REFERENCE ONLY. (VERIFY & COORDINATE EQUIPMENT PRIOR TO ANY WORK)
- 9, SEE STOREFRONT DETAILS ON SHEET A602 FOR REMAINING INFO. 10. SEE ROOM FINISH SCHEDULE ON SHEET A900 FOR REMAINING INFO.





EXP. 12/31/25

Hospital Animal

Discovery

ID DESCRIPTION DATE PROGRESS 5/05/2020

SHEET TITLE

DIMENSIONAL PLAN

SHEET NUMBER



MISSOURI ARC-000588 EXP. 12/31/25

ID DESCRIPTION DATE

PROGRESS 5/05/2020

PROJECT NO. SHEET TITLE

Hospital

Animal

Discovery

ls Edge Boulevard kson County, Misso

EXTERIOR

ELEVATIONS

SHEET NUMBER

2. DO NOT SCALE THIS DRAWING. REFER TO DIMENSIONS AND MEMBER SIZES GIVEN AS INDICATED ON FLOOR PLANS, SECTIONS, & DETAILS.

WALL UP/DOWN LIGHTING -

SOUTH ELEVATION

SCALE: 36" = 1'-0"

E3 Aloo

COMPOSITE WOOD RAINSCREEN

BRICK VENEER -

BRICK HEADER COURSE -

MISSOURI ARC-000588 EXP. 12/31/25

Hospital

ls Edge Boulevard kson County, Misso Animal

Discovery

ISSUE ID DESCRIPTION DATE PROGRESS 5/05/2020

PROJECT NO.

SHEET TITLE

- SOLID LOWER PANEL

TO MATCH FRAME

└─ ALUMINUM STOREFRONT SYSTEM,

METAL OVER HEADER TO MATCH FRAME

TINTED GLAZING / SOLID LOWERS

ELEVATOIN GENERAL NOTES:

1. FOR REFERENCE ONLY, VERIFY AND COORDINATE ALL MATERIALS

2. DO NOT SCALE THIS DRAWING, REFER TO DIMENSIONS AND MEMBER SIZES GIVEN AS INDICATED ON FLOOR PLANS, SECTIONS, & DETAILS.

AND FINISHES WITH OWNER PRIOR TO ANY WORK.

EXTERIOR

ELEVATIONS

SHEET NUMBER

PLAN LEGEND PARTIAL HEIGHT PARTITION NON-RATED PARTITION; SEE ASSEMBLIES 1 HR RATED PARTITION; SEE ASSEMBLIES 2 HR RATED PARTITION; SEE ASSEMBLIES WINDOW TYPE; SEE WINDOW SCHEDULE DOOR TYPE; SEE DOOR SCHEDULE P7 PARTITION TYPE; SEE ASSEMBLIES FRAMING DIMENSIONS 6'-0"LAYOUT LAYOUT LAYOUT LINE DIMENSIONS

PRELIMINARY

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PRINTS ISSUED 05/10/2024 - FDP

REVISIONS:

NOT FOR CONSTRUCTION

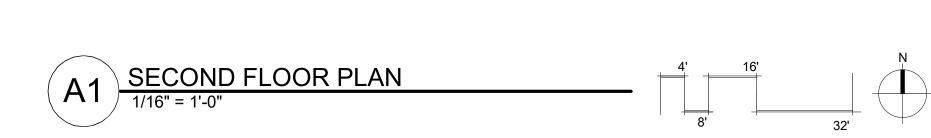
LEE'S SUMMIT, MO

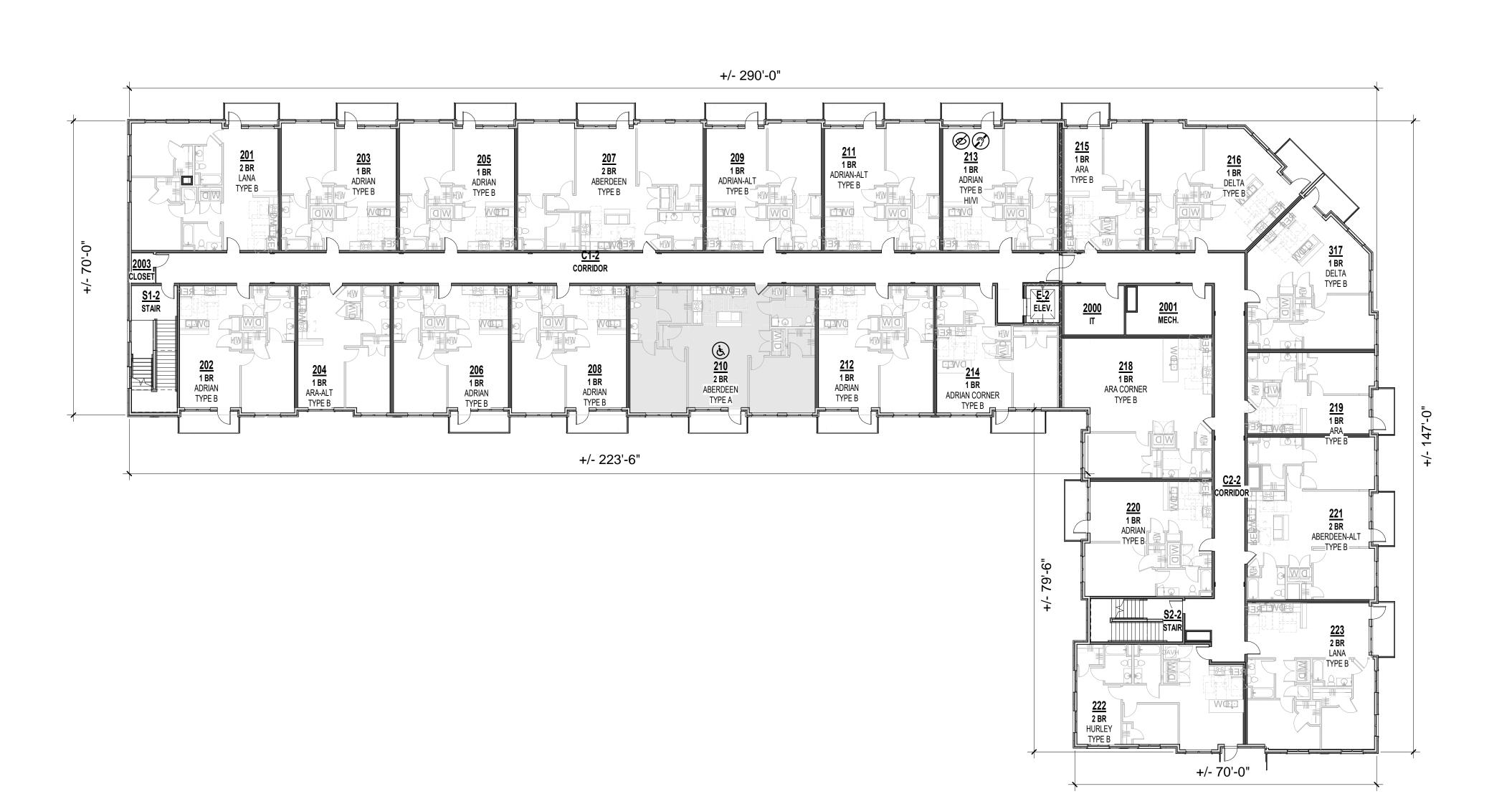
SHEET TITLE FIRST FLOOR PLAN

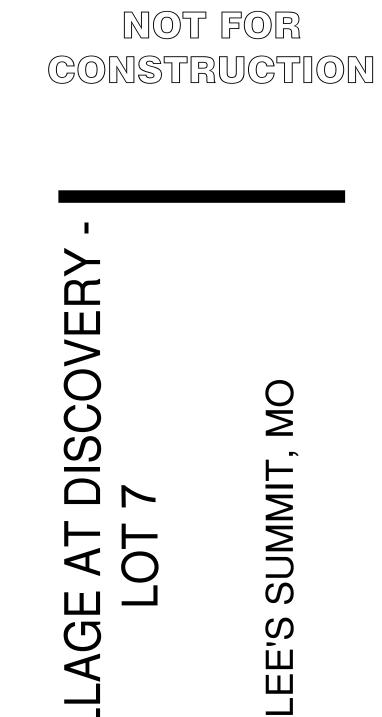
PROJECT NUMBER: 23099 SHEET NUMBER:

A-101

A1 <u>1ST FLOOR PLAN - FDP</u> 1/16" = 1'-0"







PRELIMINARY

PRINTS ISSUED

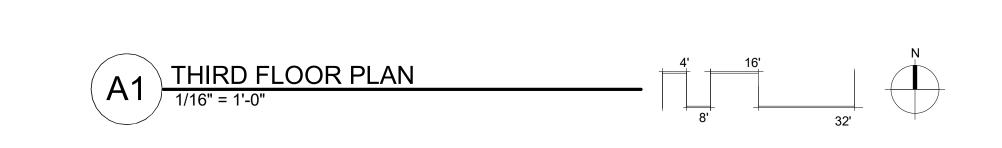
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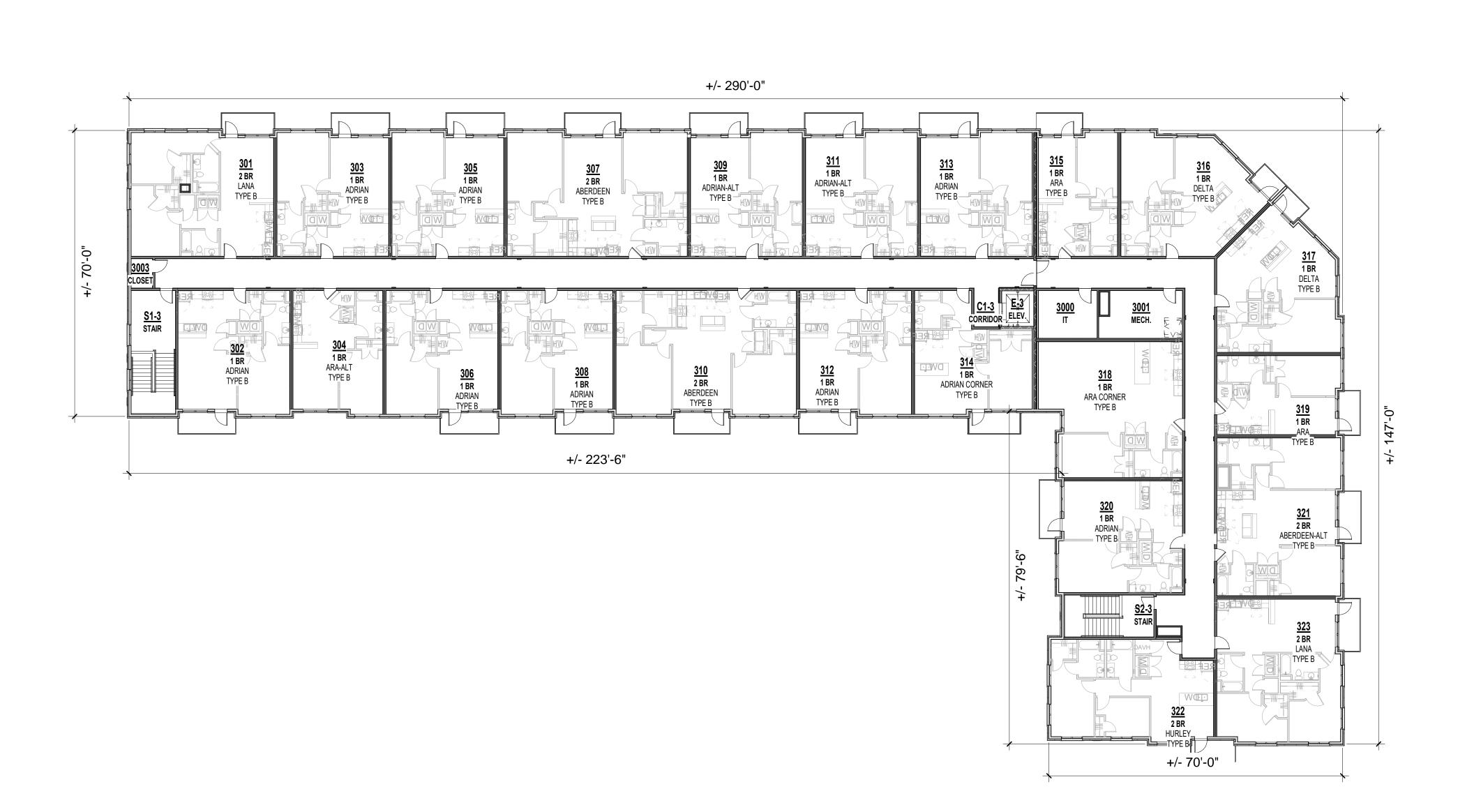
05/10/2024 - FDP

SHEET TITLE SECOND FLOOR PLAN

PROJECT NUMBER: 23099 SHEET NUMBER:

A-102







PRELIMINARY

NOT FOR

CONSTRUCTION

PRINTS ISSUED

REVISIONS:

05/10/2024 - FDP

SHEET TITLE THIRD FLOOR PLAN

PROJECT NUMBER: 23099 SHEET NUMBER:

A-103

LEE'S SUMMIT, MO



PARAPET 4 BRICK - COLOR 2 @ RECESS, TYP. 146' - 6" PRE-FAB METAL BALCONY & RAILING, TYP. PARAPET 3 KING SIZE BRICK, TYP. - ACCENT BRICK - COLOR 3 144' - 4" PARAPET 2 142' - 1" BRICK BAND, TYP. EXTERIOR LIGHTING, TYP. ACCENT BRICK - COLOR 3 T.O. 3rd SUBFLOOR 126' - 11 7/8" T.O. 3rd BEARING 125' - 1 1/8" PRE-FAB METAL CANOPY W/ RECESSED LIGHTING, TYP. RE: ELEC. T.O. CONCRETE SLAB 116' - 0" LARGE FORMAT MASONRY T.O. 1st FLOOR SLAB 100' - 0"

PRELIMINARY
NOT FOR
CONSTRUCTION

mann & ASSOCIATES

2 EAST ELEVATION - COLOR
3/32" = 1'-0"



NORTH ELEVATION - COLOR

3/32" = 1'-0"

THE VILLAGE AT DISCOVERY

SHEET TITLE

EXTERIOR COLOR ELEVATIONS

PROJECT NUMBER: 23099

SHEET NUMBER:

coal Cache/2023/23099_Lot 4 Apartments_Central_R23_24-0123_coartr

A-202

mann & ASSOCIATES

O

PRELIMINARY

NOT FOR

CONSTRUCTION

LEE'S SUMMIT, MO



3 CORNER ELEVATION - COLOR
3/32" = 1'-0"

PARAPET 4 146' - 6"

144' - 4"

PARAPET 2 142' - 1"

TRUSS BEARING 136' - 1"

T.O. 3rd SUBFLOOR 126' - 11 7/8"

T.O. 3rd BEARING 125' - 1 1/8"

T.O. CONCRETE SLAB 116' - 0"

T.O. 1st FLOOR SLAB 100' - 0"

2 WEST ELEVATION - COLOR
3/32" = 1'-0"



1 SOUTH ELEVATION - COLOR
3/32" = 1'-0"

THE VILLAGE AT DISCOVERY
LOT 7

SHEET TITLE
EXTERIOR COLOR ELEVATION

EXTERIOR COLOR ELEVATIONS

PROJECT NUMBER: 23099
SHEET NUMBER:

A-203

/2024 10:38:50 AM Pevit Local Cache/2023/23099_Lot 4 Apartments_Central_R23_24-0123_ccartm

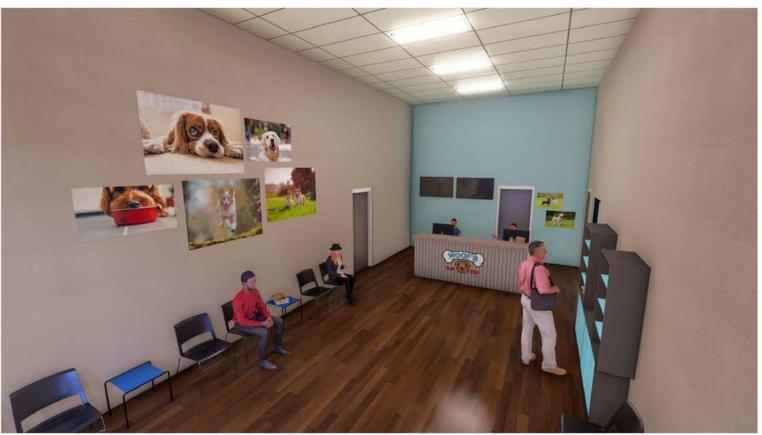
PERFORATED SCREEN AT OPEN PARKING, TYP.









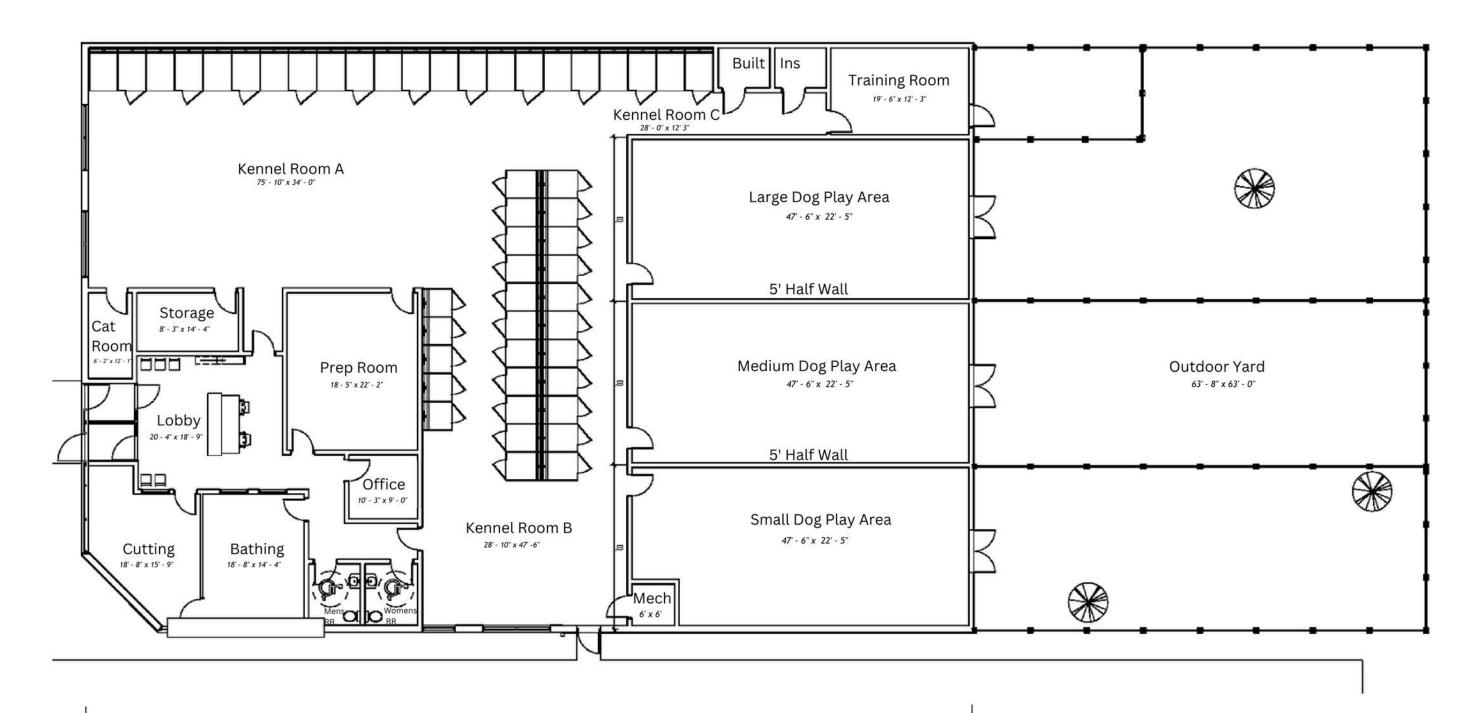






Woof's Play and Stay Floor Plan

10,180 SQFT



VILLAGE
at discovery park

124' - 0"