# UTILITY COMPANIES AND GOVERNING AGENCIES:

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- LEE'S SUMMIT WATER UTILITIES 1200 SE HAMBLEN ROAD LEE'S SUMMIT, MO 64081 (816) 969-1900
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- CHARTER/SPECTRUM TROY PREWITT 8221 W. 119TH STREET
- OVERLAND PARK, KS 66213 (816) 401-3573 TROÝ.PREWITT@CHARTER.COM

MEASURED

# LEGEND

•	SECTION CORNER
•	SET 1/2" REBAR W/LC 366 CAP
0	FOUND MONUMENT AS NOTED
-0	FIRE HYDRANT
X wv	WATER VALVE
WM	WATER METER
MP	WATER METER PIT
$X_{GV}$	GAS VALVE
GM	GAS METER
S	SPRINKLER BOX
S	SANITARY SEWER MANHOLE
TS	TRAFFIC SIGNAL BOX
000	TRAFFIC SIGNAL POLE
F	FIBER OPTIC BOX
TVP	TELEVISION PEDESTAL
ТВ	TELEVISION BOOTH
▦	GRATE INLET
X	4"x4" WOOD POST
$\circledast$	BOLLARD
₩	STEEL POST
	COLUMN
<del></del>	SIGN
$\odot$	TREE
	SPRINKLER VALVE

<sup>SCV</sup> SPRINKLER VALVE BOREHOLE

PLATTED
OVERHEAD POWER LINE
GAS LINE
UNDERGROUND POWER LINE
UNDERGROUND TELEPHONE LINE
UNDERGROUND FIBER OPTIC LINE
SANITARY SEWER LINE
STORM LINE
WATER LINE
TELEPHONE MANHOLE
TELEPHONE PEDESTAL
TELEPHONE CABINET
STORM SEWER MANHOLE
SANITARY SEWER CLEANOUT
ELECTRIC BOX
BREAKER BOX
ELECTRIC METER
ELECTRIC RISER
TRANSFORMER
POWER POLE
POWER POLE/W LIGHT
GUY WIRE
LIGHT POLE

DEVELOPMENT TEAM CONTACT INFORMATION					
OWNER/DEVELOPER					
SCANNELL PROPERTIES #603, LLC	8801 RIVER CROSSING BOULEVARD, SUITE 300 INDIANAPOLIS, INDIANA 46240				
CIVIL ENGINEER					
MITCH PLEAK OLSSON	7301 W 133RD STREET SUITE 200 OVERLAND PARK, KS 66213 PH:913-381-1170 mpleak@olsson.com				

⊙<sub>BU</sub> BUSH

# PROPERTY DESCRIPTION

ALL THAT PART OF AN UNPLATTED TRACT OF LAND, TOGETHER WITH ALL THAT PART OF NORTH MAIN STREET RIGHT OF WAY, ALL LYING IN THE WEST HALF OF SECTION 31, TOWNSHIP 48 NORTH, RANGE 31 WEST, LYING IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, DESCRIBED BY PATRICK ETHAN WARD, MO PLS-20050071, OF OLSSON MOLC-366, ON OCTOBER 14, 2021, AS FOLLOWS:

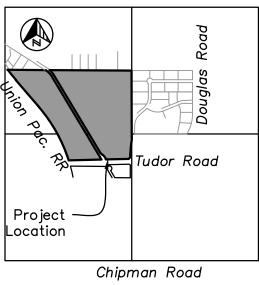
BEGINNING AT THE NORTHEAST CORNER OF THE SOUTHWEST QUARTER OF SECTION 31, TOWNSHIP 48 NORTH, RANGE 31 WEST; THENCE SOUTH 01 DEGREE 59 MINUTES 47 SECONDS WEST, ON THE EAST LINE OF SAID SOUTHWEST QUARTER, A DISTANCE OF 65.98 FEET TO A POINT ON THE WEST LINE OF NW SLOAN STREET RIGHT OF WAY, AS ESTABLISHED IN DOCUMENT 2013E007503 SAID POINT ALSO LYING ON A NON-TANGENT CURVE; THENCE IN A SOUTHERLY DIRECTION, DEPARTING SAID EAST LINE, ON SAID WEST LINE AND ON A CURVE TO THE RIGHT WHOSE INITIAL TANGENT BEARS SOUTH 02 DEGREES 47 MINUTES 37 SECONDS WEST HAVING A RADIUS OF 970.00 FEET, THROUGH A CENTRAL ANGLE OF 6 DEGREES 27 MINUTES 07 SECONDS, AN ARC DISTANCE OF 109.23 FEET TO A POINT OF TANGENCY; THENCE SOUTH 09 DEGREES 14 MINUTES 44 SECONDS WEST, CONTINUING ON SAID WEST LINE, A DISTANCE OF 111.80 FEET TO A POINT OF CURVATURE; THENCE IN A SOUTHERLY DIRECTION, CONTINUING ON SAID WEST LINE AND ON A CURVE TO THE LEFT, HAVING A RADIUS OF 1030.00 FEET, THROUGH A CENTRAL ANGLE OF 7 DEGREES 14 MINUTES 57 SECONDS, AN ARC DISTANCE OF 130.32 FEET TO A POINT OF TANGENCY; THENCE SOUTH 01 DEGREE 59 MINUTES 47 SECONDS WEST, CONTINUING ON SAID WEST LINE, A DISTANCE OF 69.49 FEET TO A POINT ON THE NORTH LINE OF NE TUDOR ROAD RIGHT OF WAY, AS ESTABLISHED IN SAID DOCUMENT 2013E0075031; THENCE SOUTH 46 DEGREES 15 MINUTES 48 SECONDS WEST, DEPARTING SAID WEST LINE, ON SAID NORTH LINE, A DISTANCE OF 46.09 FEET TO A POINT; THENCE NORTH 89 DEGREES 24 MINUTES 16 SECONDS WEST, CONTINUING ON SAID NORTH LINE, AND ON THE NORTH LINE OF NW TUDOR ROAD RIGHT OF WAY, AS ESTABLISHED IN DOCUMENT 2013E0075030, A DISTANCE OF 1249.23 FEET TO A POINT ON THE EAST LINE OF UNION PACIFIC RAILROAD RIGHT OF WAY, AS NOW ESTABLISHED, SAID POINT ALSO LYING ON A NON-TANGENT CURVE; THENCE IN A NORTHERLY AND NORTHWESTERLY DIRECTION, DEPARTING SAID NORTH LINE, ON SAID EAST LINE AND ON A CURVE TO THE LEFT WHOSE INITIAL TANGENT BEARS NORTH 15 DEGREES 46 MINUTES 27 SECONDS WEST, HAVING A RADIUS OF 3203.90 FEET, THROUGH A CENTRAL ANGLE OF 22 DEGREES 48 MINUTES 11 SECONDS, AN ARC DISTANCE OF 1275.12 FEET TO A POINT OF TANGENCY; THENCE NORTH 38 DEGREES 34 MINUTES 39 SECONDS WEST, CONTINUING ON SAID EAST LINE, A DISTANCE OF 738.40 FEET TO A POINT OF CURVATURE; THENCE IN A NORTHWESTERLY DIRECTION, CONTINUING ON SAID EAST LINE AND ON A CURVE TO THE RIGHT, HAVING A RADIUS OF 5981.13 FEET, THROUGH A CENTRAL ANGLE OF 2 DEGREES 39 MINUTES 22 SECONDS, AN ARC DISTANCE OF 277.27 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH HALF OF THE NORTHWEST QUARTER OF SAID SECTION 31, SAID POINT ALSO LYING ON A NON-TANGENT LINE; THENCE SOUTH 87 DEGREES 40 MINUTES 30 SECONDS EAST, DEPARTING SAID EAST LINE, ON SAID NORTH LINE, A DISTANCE OF 884.17 FEET TO A POINT ON A NON-TANGENT CURVE; THENCE IN A SOUTHEASTERLY DIRECTION, DEPARTING SAID NORTH LINE, ON A CURVE TO THE RIGHT WHOSE INITIAL TANGENT BEARS SOUTH 45 DEGREES 29 MINUTES 38 SECONDS EAST, HAVING A RADIUS OF 544.00 FEET, THROUGH A CENTRAL ANGLE OF 16 DEGREES 50 MINUTES 44 SECONDS, AN ARC DISTANCE OF 159.94 FEET TO A POINT OF TANGENCY; THENCE SOUTH 28 DEGREES 38 MINUTES 55 SECONDS EAST A DISTANCE OF 437.58 FEET TO A POINT OF CURVATURE; THENCE IN A SOUTHEASTERLY AND EASTERLY DIRECTION, ON A CURVE TO THE LEFT, HAVING A RADIUS OF 476.00 FEET, THROUGH A CENTRAL ANGLE OF 63 DEGREES 19 MINUTES 59 SECONDS, AN ARC DISTANCE OF 526.16 FEET TO A POINT OF TANGENCY; THENCE NORTH 88 DEGREES 01 MINUTE 06 SECONDS EAST A DISTANCE OF 416.85 FEET TO A POINT OF CURVATURE; THENCE IN AN EASTERLY AND SOUTHEASTERLY DIRECTION, ON A CURVE TO THE RIGHT, HAVING A RADIUS OF 544.00 FEET, THROUGH A CENTRAL ANGLE OF 65 DEGREES 51 MINUTES 08 SECONDS, AN ARC DISTANCE OF 625.24 FEET TO A POINT ON A NON-TANGENT LINE, SAID POINT ALSO LYING ON THE EAST LINE OF SAID NORTHWEST QUARTER; THENCE SOUTH 01 DEGREE 53 MINUTES 30 SECONDS WEST, ON SAID EAST LINE, A DISTANCE OF 338.00 FEET TO THE POINT OF BEGINNING,

CONTAINING 2,375,437 SQUARE FEET OR 54.5325 ACRES, MORE OR LESS.

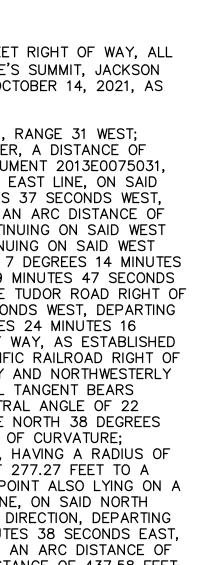
# SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS FINAL DEVELOPMENT PLAN - BUILDING 2 AN UNPLATTED PARCEL IN THE WEST HALF OF SECTION 31, TOWNSHIP 48 NORTH,

RANGE 31 WEST, IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI





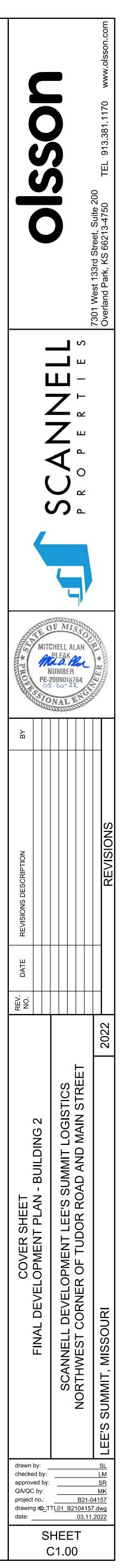
Section 31, T48N, R31W VICINITY MAP Scale: 1" = 2000'



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L1.04	LANDSCAPE PLAN					
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THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, & OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. CALL 1-800-DIG-RITE.



**GENERAL NOTES:** 1. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", 1(800)344-7483, OR 811 AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!! 2. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER. 3. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE. 4. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES AND FOR BRINGING THE PROJECT TO THE LINES AND GRADES SHOWN HEREIN. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO COMPLETE THE WORK SHOWN IN THESE PLANS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE EARTHWORK QUANTITIES AND TO ACCOUNT FOR HAUL IN OR HAUL OFF OF MATERIAL AS NECESSARY TO MEET THE LINES AND GRADES OF THE PLANS EVEN IF QUANTITY ESTIMATES ARE SHOWN WITHIN THESE DOCUMENTS. NO ADDITIONAL PAYMENTS WILL BE MADE FOR IMPORT OR EXPORT OF MATERIAL OR FOR ADJUSTMENTS TO QUANTITY ESTIMATES. 5. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF LEE'S SUMMIT, EXCEPT WHERE SHOWN OTHERWISE. NOTIFY ENGINEER OF DISCREPANCIES. 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK. 7. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF MISSOURI STATE LAW WHICH REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM UTILITY COMPANIES. 8. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED. 9. THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES SHOWN TO REMAIN FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN FOR REMOVAL ON THESE PLANS. 10. CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES. 11. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR. 12. ALL UTILITY EXTENSIONS AND CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE APPLICABLE UTILITY COMPANIES. 13. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED. 14. ALL DISTURBED AREAS SHALL BE LANDSCAPED, SEEDED OR SODDED, AS SHOWN ON THE LANDSCAPE PLAN. 15. HANDICAP PARKING STALLS SHALL BE SIGNED WITH CITY/ADA APPROVED SIGN AND CONSTRUCTED IN STRICT ACCORDANCE WITH CITY/ADA STANDARDS AND SHALL NOT EXCEED 2.00 PERCENT IN ANY DIRECTION. ACCESSIBLE SIDEWALKS HAVE A MAXIMUM CROSS SLOPE OF 2 PERCENT AND A MAXIMUM LONGITUDINAL SLOPE OF 5 PERCENT. 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE EROSION DURING CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. EROSION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, THE SILT FENCES AND GRAVEL FILTER BAGS SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE FOR THE DURATION OF THE SITE IMPROVEMENTS. 17. ALL HDPE PIPE SHALL BE ADS (N-12) OR APPROVED EQUAL, AND CONFORM TO AASHTO M294 SPECIFICATIONS. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. 18. IF PRECAST CONCRETE STORM SEWER STRUCTURES ARE TO BE USED ON THIS PROJECT, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND HAVE THEM APPROVED BY THE ENGINEER PRIOR TO FABRICATION OF THE STRUCTURES. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION. 19. EXISTING TOPSOIL SHALL BE STRIPPED TO A POINT WHERE ALL VEGETATION IS REMOVED. 20. THE CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO THE SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED. 21. ALL WATER SERVICE LINES SHALL BE INSTALLED PER LEE'S SUMMIT WATER UTILITIES STANDARDS. ALL WATER LINES SHALL BE A MINIMUM OF 48 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN. 22. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. ANY BOUNDARY CORNER AND/OR SECTION CORNER DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI, AT THE CONTRACTOR'S EXPENSE. 23. NO FEDERALLY OWNED MAILBOX MAY BE DISTURBED. THE CONTRACTOR SHALL GIVE AT LEAST TWENTY-FOUR (24) HOURS ADVANCE NOTICE TO THE MANAGER OF DELIVERY AND COLLECTIONS. TAMPERING WITH FEDERAL MAIL FACILITIES MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT. 24. THE CONTOUR LINES, SPOT ELEVATIONS AND BUILDING FLOOR ELEVATIONS SHOWN ARE TO FINISH GRADE FOR SURFACE OF PAVEMENT, TOP OF SIDEWALKS AND CURBS, TOP OF FLOOR SLABS, ETC. REFER TO TYPICAL SECTIONS FOR PAVING, SLAB AND AGGREGATE BASE THICKNESS TO DEDUCT FOR GRADING LINE ELEVATIONS. 25. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL 26. THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AND SIDEWALKS WHEN FINISH LANDSCAPE MATERIALS ARE IN PLACE. 27. ALL EXTERIOR CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI AND BE AIR ENTRAINED. FLYASH IS NOT A SUITABLE REPLACEMENT FOR PORTLAND CEMENT. 28. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND 29. THE CONTRACTOR SHALL MAKE HIS OWN ASSUMPTIONS ON THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. ALL ROCK EXCAVATION AND REMOVAL SHALL BE INCLUDED IN THE CONTRACTORS' BID. 30. CONCRETE PAVEMENT JOINTS SHALL AT A MINIMUM BE CONSTRUCTED AS FOLLOWS (REFER TO HARDSCAPE PLANS FOR SPECIFIC TREATMENT OF THESE AREAS): LONGITUDINAL CONSTRUCTION JOINTS SPACED AT INTERVALS NOT GREATER THAN 12 FEET, TOOLED TO 1/3 THE SLAB THICKNESS AND OF THE BAR TYPE CONSTRUCTION JOINTS AT THE END OF EACH POUR AND WHEN PAVING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE AND DOWELED WITH SMOOTH DOWELS. TRANSVERSE JOINTS SPACED AT INTERVALS NOT GREATER THAN 15 FEET AND TOOLED TO 1/3 OF THE SLAB THICKNESS. ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABUTS THE BUILDING, DRAINAGE STRUCTURES AND OTHER FIXED STRUCTURES, CONSTRUCTED WITH A 3/4" NONEXTRUDING FILLER, CLOSED-CELL FOAM RUBBER OR A BITUMEN-TREATED FIBER-BOARD, AND WITH A THICKENED EDGE, INCREASED BY 20 PERCENT, TAPERED TO THE REGULAR THICKNESS IN 5 FEET. ALL EXPANSION JOINTS SHALL BE FILLED AND SEALED WITH A PLASTIC JOINT SEALANT MATERIAL. 32. CONTRACTOR TO FIELD VERIFY ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES AND INFRASTRUCTURE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS. 33. TELEPHONE AND COMMUNICATION SERVICE ROUTING AND CONDUITS NOT SHOWN ON PLANS. CONTRACTOR SHALL INSTALL NECESSARY CONDUIT PRIOR TO PAVEMENT INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING AND INSTALLATION SCOPE WITH SERVICE PROVIDER. 34. BY ACCEPTING AND UTILIZING ANY ELECTRONIC FILE OF ANY DRAWING, REPORT OR DATA TRANSMITTED BY OLSSON, THE RECIPIENT AGREES FOR ITSELF, ITS SUCCESSORS, ASSIGNS, INSURERS AND ALL THOSE CLAIMING UNDER OR THROUGH IT. THAT BY USING ANY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE. ALL USERS AGREE TO BE BOUND BY THE FOLLOWING TERMS. ALL OF THE INFORMATION CONTAINED IN THIS ELECTRONIC FILE IS THE WORK PRODUCT AND INSTRUMENT OF SERVICE OF OLSSON, WHO SHALL BE DEEMED THE AUTHOR, AND SHALL RETAIN ALL COMMON LAW, STATUTORY LAW AND OTHER RIGHTS, INCLUDING COPYRIGHTS, UNLESS THE SAME HAVE PREVIOUSLY BEEN TRANSFERRED IN WRITING TO THE RECIPIENT. THE INFORMATION CONTAINED IN THE ELECTRONIC FILE IS PROVIDED FOR THE CONVENIENCE OF THE RECIPIENT AND IS PROVIDED IN "AS IS" CONDITION. THE

- CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS WITH CONFORMANCE TO CONTRACT DOCUMENTS.
- BEFORE SUBMITTING EACH SHOP DRAWING OR SAMPLE, CONTRACTOR SHALL HAVE DETERMINED AND VERIFIED: b. ALL MATERIALS WITH RESPECT TO INTENDED USE, FABRICATION, SHIPPING, HANDLING, STORAGE, ASSEMBLY AND INSTALLATION PERTAINING TO THE PERFORMANCE OF THE WORK;
- SIGNATURE, CONTRACTOR CERTIFIES SHOP DRAWING CONFORMANCE AND ACCURACY TO THE CONTRACT DOCUMENTS.
- 36. ANY CONTRACTOR BIDDING ANY PORTION OF THIS WORK SHALL HAVE IN HIS OR HER POSSESSION A COMPLETE SET OF CONSTRUCTION DOCUMENTS AND BE FAMILIAR WITH ALL SCOPES OF WORK AND TRADES TO UNDERSTAND THEIR INTERACTIONS.
- PRODUCTS. IN THE EVEN THIS NOTE IS LESS STRINGENT THAN THE LOCAL JURISDICTION, THE MORE STRINGENT REQUIREMENTS SHOULD APPLY.

## **DEMOLITION NOTES**

1. CONTRACTOR TO PRESERVE ALL SURVEY CONTROL.

OF ANY EXCAVATION TO COORDINATE UTILITY LOCATIONS.

- 2. CONTRACTOR TO COMPLETE DEMOLITION PER THE INTENT OF THESE PLANS. UTILITIES. THIS INCLUDES PRIVATE AND PUBLIC UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT MISSOURI ONE CALL AT 1-800-344-7483 IN ADVANCE
- THESE PLANS. 5. REMOVAL AND DISPOSAL OF BUSHES AND TREES SMALLER THAN 12" IN DIAMETER SHALL BE CONSIDERED SUBSIDIARY TO THE PRICE BID FOR CLEARING AND GRUBBING.
- 6. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OFF SITE BY THE CONTRACTOR.
- 7. DO NOT DISRUPT UTILITY SERVICE TO ADJACENT BUSINESSES OR RESIDENCES WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER.
- 8. DO NOT DISRUPT TRAFFIC ON ADJACENT PUBLIC STREETS WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY.
- CONTRACTOR SHALL SAW CUT WHERE NECESSARY.
- PROCEEDING WITH WORK ON THIS CONTRACT.
- ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES.
- AND THE CITY.
- 14. DEMOLITION OF BUILDINGS SHALL INCLUDE THE BUILDING STRUCTURE, PAD, FOOTINGS, FOUNDATIONS, BASEMENT WALLS, BASEMENT FLOORS, TRUCK DOCKS, STEPS,
- TRENCHES PER SPECIFICATIONS. 15. ALL LIGHT POLE DEMOLITION SHALL INCLUDE FIXTURES, BASES AND WIRING.
- 16. ALL UTILITY DEMOLITION SHALL INCLUDE METERS, MANHOLES AND OTHER STRUCTURES ASSOCIATED WITH THE UTILITY SERVICE LINE.

RECIPIENT IS AWARE THAT DIFFERENCES MAY EXIST BETWEEN THE ELECTRONIC FILES AND THE PRINTED HARD-COPY ORIGINAL SIGNED AND SEALED DRAWINGS OR REPORTS. IN THE EVENT OF A CONFLICT BETWEEN THE SIGNED AND SEALED ORIGINAL DOCUMENTS PREPARED BY OLSSON AND THE ELECTRONIC FILES TRANSFERRED HEREWITH, THE SIGNED AND SEALED ORIGINAL DOCUMENTS SHALL GOVERN. OLSSON SPECIFICALLY DISCLAIMS ALL WARRANTIES. EXPRESSED OR IMPLIED. INCLUDING WITHOUT LIMITATION. ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ELECTRONIC FILES. IT SHALL BE THE RECIPIENT'S RESPONSIBILITY TO CONFIRM THE ACCURACY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE AND THAT IF ACCURATELY REFLECTS THE INFORMATION NEEDED BY THE RECIPIENT. THE RECIPIENT SHALL NOT RETRANSMIT THE ELECTRONIC FILE, OR ANY PORTION THEREOF, WITHOUT INCLUDING THIS DISCLAIMER AS PART OF ANY SUCH TRANSMISSION. IN ADDITION, THE RECIPIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS OLSSON, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS AGAINST ANY AND ALL DAMAGES, LIABILITIES, CLAIMS OR COSTS, INCLUDING REASONABLE ATTORNEY'S AND EXPERT WITNESS FEES AND DEFENSE COSTS, ARISING FROM ANY CHANGES MADE BY ANYONE OTHER THAN OLSSON OR FROM ANY REUSE OF THE ELECTRONIC FILES WITHOUT THE PRIOR WRITTEN CONSENT OF OLSSON.

35. DESIGN PROFESSIONAL SHALL REVIEW SHOP DRAWINGS OR SAMPLES FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPTS ON THE PROJECT AND FOR COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS, AND SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION. THE DESIGN PROFESSIONAL'S REVIEW SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ANY VARIATION FROM THE REQUIREMENTS. OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS IN WRITING CALLED DESIGN PROFESSIONAL'S ATTENTION TO EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND DESIGN PROFESSIONAL HAS GIVEN WRITTEN APPROVAL OF EACH SUCH VARIATION BY SPECIFIC WRITTEN NOTATION THEREOF INCORPORATED INTO OR ACCOMPANYING THE SHOP DRAWING OR SAMPLE; NOR WILL ANY APPROVAL BY THE DESIGN PROFESSIONAL RELIEVE

a. ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR INFORMATION WITH RESPECT THERETO;

c. ALL INFORMATION RELATIVE TO MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO;

d. CONTRACTOR SHALL ALSO HAVE REVIEWED AND COORDINATED EACH SHOP DRAWING OR SAMPLE WITH OTHER SHOP DRAWINGS AND SAMPLES, AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. ALL SUBMITTED SHOP DRAWINGS SHALL BEAR A STAMP OR SPECIFIC WRITTEN INDICATION AND SIGNATURE THAT CONTRACTOR HAS FULLY REVIEWED THE SUBMISSION AND CHECKED ALL DATA AND DETAILS. BY CONTRACTOR

37. CONTRACTOR TO PROVIDE A STRUCTURAL DESIGN FOR ALL STORM STRUCTURES WITH A ("L"+"H") AND ("W" + "H") GREATER THAN 20 FEET. "L" IS THE LENGTH OF THE BOX, "W" IS THE WIDTH OF THE BOX, AND "H" IS THE HEIGHT OF THE BOX. STRUCTURAL DESIGN SHOULD INCLUDE DETAILS AND CALCULATIONS SEALED BY A LICENSED ENGINEER. DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO ANY FABRICATION AND ORDERING OF PIPE

3. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE ENGINEER MAKES NO GUARANTEES THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE ENGINEER HAS NOT PHYSICALLY LOCATED THE UNDERGROUND

4. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR SHOWN ON

9. ALL SIDEWALK AND PAVEMENT TO REMAIN SHALL BE PROTECTED IN PLACE INCLUDING PROTECTION FROM DAMAGE CAUSED BY REMOVAL OF ABUTTING PAVEMENT.

10. CONTRACTOR SHALL GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DISCONNECTION, DEMOLITION, AND REMOVAL OF SERVICE LINES. CAP ALL LINES BEFORE

11. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANIES WORK FORCE AND

12. CONTRACTOR SHALL PROTECT THE PUBLIC AT ALL TIME WITH FENCING, BARRICADES, ENCLOSURES, ETC. TO THE BEST PRACTICES AND AS APPROVED BY THE ENGINEER

13. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

DECKS, ALL ITEMS REMAINING IN BUILDING, ALL BUILDING UTILITY SERVICES, SIDEWALKS, AND BACKFILLING AND RESTORING REMAINING EXCAVATIONS, BASEMENTS AND

## PAVEMENT MARKING NOTES:

1. PAVEMENT MARKING PAINT: LATEX, WATER-BASE EMULSION, READY-MIXED, COMPLYING WITH FS TT-P-1952 WITH DRYING TIME OF LESS THAN 45 MINUTES.

- 2. DO NOT APPLY PAVEMENT MARKING PAINT UNTIL LAYOUT, COLORS AND PLACEMENT HAVE BEEN VERIFIED WITH THE ARCHITECT.
- 3. ALLOW PAVING TO AGE FOR 24 HOURS BEFORE MARKING.
- 4. SWEEP AND CLEAN SURFACE.
- 5. APPLY PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE MARKINGS WITH UNIFORM STRAIGHT EDGES. PROVIDE A MINIMUM WET FILM THICKNESS OF 15 MILS. 6. THIS WORK SHALL CONSIST OF FURNISHING AND APPLYING PAINT ON PAVEMENT SURFACES, IN TRAFFIC LANES, PARKING BAYS, AREAS RESTRICTED TO HANDICAPPED PERSONS, CROSSWALKS, AND OTHER DETAIL PAVEMENT MARKINGS, IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS.
- 7. DETAILS NOT SHOWN SHALL BE IN CONFORMITY WITH THE STATE STANDARDS FOR TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND SIMILAR REQUIREMENTS ESTABLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
- 8. ALL PARKING LOT STRIPING SHALL BE SINGLE LINE 4" WIDE AS PER THE SITE PLANS.
- 9. PAINT FOR MARKING PAVEMENT SHALL CONFORM TO FEDERAL HIGHWAY MARKING STANDARDS. USE SHERWIN WILLIAMS PROMAR TRAFFIC MARKING PAINT, COLORS TO MATCH THE EXISTING ADJACENT INSTALLATIONS. USE FLAT BLACK, WHITE OR YELLOW, WHERE APPROPRIATE. UNLESS OTHERWISE DIRECTED, USE THE FOLLOWING: A. BLACKTOP OR BITUMINOUS ASPHALT PAVING: USE WHITE COLOR. B. PORTLAND CEMENT CONCRETE PAVING: USE YELLOW COLOR.
- C. HANDICAPPED ACCESSIBLE PARKING AND ENTRYWAYS: USE WHITE COLOR WITH WHITE STRIPES. D. PROVIDE PAINTED CURBS AT FIRE LANE DESIGNATIONS PER FIRE MARSHAL REQUIREMENTS.
- 10. APPLY ALL MARKINGS USING APPROVED MECHANICAL EQUIPMENT (WITH PROVISIONS FOR CONSTANT AGITATION OF PAINT), CAPABLE OF APPLYING THE MARKING WIDTHS AS SHOWN. USE PNEUMATIC SPRAY GUNS FOR HAND APPLICATION OF PAINT. ALL PAINTING EQUIPMENT AND OPERATIONS SHALL BE UNDER THE CONTROL OF EXPERIENCED TECHNICIANS THOROUGHLY FAMILIAR WITH EQUIPMENT AND MATERIALS AND MARKING LAYOUTS.
- 11. DETAIL PAVEMENT MARKINGS SHALL BE THAT MARKING, EXCLUSIVE OF ACTUAL TRAFFIC LANE MARKING, AT EXIT AND ENTRANCE ISLANDS AND TURNOUTS, ON CURBS, AT CROSSWALKS, AT PARKING BAYS AND AT SUCH OTHER LOCATIONS AS SHOWN. HANDICAPPED PARKING SPACES SHALL BE MARKED BY THE INTERNATIONAL HANDICAPPED SYMBOL AT INDICATED PARKING SPACES. USE A SUITABLE TEMPLATE THAT WILL PROVIDE A PAVEMENT MARKING WITH TRUE, SHARP EDGES AND ENDS.

## **EROSION & SEDIMENT CONTROL NOTES**

- 1. PRIOR TO LAND DISTURBANCE ACTIVITIES. THE FOLLOWING SHALL OCCUR: A. DELINEATE THE OUTER LIMITS OF ANY NATURAL STREAM CORRIDOR DESIGNATED IN ACCORDANCE WITH THE CITY'S DESIGN AND CONSTRUCTION MANUAL SHALL BE APPLICABLE TO DEVELOPMENT IN THE ADP.
- B. CONSTRUCT A STABILIZED ENTRANCE/PARKING/DELIVERY AREA.
- C. INSTALL PERIMETER CONTROLS AND REQUEST THE INSPECTION OF THE PRECONSTRUCTION EROSION AND SEDIMENT CONTROL MEASURES DESIGNATED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN. LAND DISTURBANCE WORK SHALL NOT PROCEED UNTIL THERE IS A SATISFACTORY INSPECTION.
- D. IDENTIFY THE LIMITS OF CONSTRUCTION ON THE GROUND WITH EASILY RECOGNIZABLE INDICATIONS SUCH AS CONSTRUCTION STAKING, CONSTRUCTION FENCING, AND PLACEMENT OF PHYSICAL BARRIERS OR OTHER MEANS ACCEPTABLE TO THE CITY INSPECTOR AND IN CONFORMANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN.
- 2. THE SITE SHALL COMPLY WITH ALL REQUIREMENTS OF THE MISSOURI WATER POLLUTION CONTROL AND NPDES STORMWATER RUNOFF FROM CONSTRUCTION SITES GENERAL PERMIT, OPMC CHAPTER 16.200 AND TITLE 18, AND LEE'S SUMMIT STANDARDS AND SPECIFICATIONS LIMITED TO:
- A. STABILIZATION OF ANY DISTURBED AREA WHERE THE LAND DISTURBANCE ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS.
- B. INSPECTIONS OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PERFORMED TO MEET OR EXCEED THE MINIMUM INSPECTION FREQUENCY IN THE MISSOURI GENERAL PERMIT. AT A MINIMUM, INSPECTIONS SHALL BE PERFORMED DURING ALL PHASES OF CONSTRUCTION AT THE FOLLOWING INTERVALS: I AT LEAST ONCE EVERY 14 DAYS II BY THE END OF THE NEXT DAY, EXCLUDING WEEKENDS AND FEDERAL HOLIDAYS, AFTER A RAIN EVENT OF ½ INCH OR MORE.
- C. AN INSPECTION LOG SHALL BE MAINTAINED AND SHALL BE AVAILABLE FOR REVIEW BY THE REGULATORY AUTHORITY.
- D. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE ROUTINELY UPDATED PER THE SWPPP AND NOI TO SHOW ALL CHANGES AND AMENDMENTS TO THE PLAN. A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE KEPT ON SITE AND MADE AVAILABLE FOR REVIEW BY THE REGULATORY AUTHORITY. 3. UNLESS OTHERWISE NOTED IN THE PLANS. ALL SEEDING MUST CONFORM TO THE CITY OF LEE'S SUMMIT STANDARDS AND SPECIFICATIONS.
- 4. EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED FOR THE DURATION OF A PROJECT. ALL INSTALLED EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN A MANNER THAT PRESERVES THEIR EFFECTIVENESS. IF THE CITY DETERMINES THAT THE BMPS IN PLACE DO NOT PROVIDE ADEQUATE EROSION AND SEDIMENT CONTROL AT ANY TIME DURING THE PROJECT, ADDITIONAL OR ALTERNATE MEASURES THAT PROVIDE EFFECTIVE CONTROL SHALL BE REQUIRED. FAILURE TO DO SO IS A VIOLATION OF THE PROVISIONS OF OPMC CHAPTER 16.200.
- 5. SILT FENCES AND SEDIMENT CONTROL BMPS WHICH ARE SHOWN ALONG THE BACK OF CURB MUST BE INSTALLED WITHIN TWO WEEKS OF CURB BACKFILL AND PRIOR TO PLACEMENT OF BASE ASPHALT. EXACT LOCATIONS OF THESE EROSION CONTROL METHODS MAY BE FIELD ADJUSTED TO MINIMIZE CONFLICTS WITH UTILITY CONSTRUCTION; HOWEVER, ANTICIPATED DISTURBANCE BY UTILITY CONSTRUCTION SHALL NOT DELAY INSTALLATION.
- 6. THE ABOVE REQUIREMENTS ARE THE RESPONSIBILITY OF THE PERMITTEE FOR THE SITE. RESPONSIBILITY MAY BE TRANSFERRED TO ANOTHER PARTY BY THE PERMITTEE ACCORDING TO THE SWPPP, BUT THE PERMITTEE SHALL REMAIN LIABLE BY THE CITY OF LEE'S SUMMIT IF ANY OF THE ABOVE CONDITIONS ARE NOT MET.
- 7. APWA EROSION AND SEDIMENT CONTROL/BMPS USED ON THE PROJECT SHALL BE CONSTRUCTED, INSPECTED, AND MAINTAINED AT A MINIMUM TO APWA STANDARDS AND SPECIFICATIONS. 8. THE SITE SHALL COMPLY WITH ALL REQUIREMENTS OF THE MISSOURI WATER POLLUTION CONTROL AND NPDES STORMWATER RUNOFF FROM CONSTRUCTION SITES GENERAL
- PERMIT, OTHER PERMIT REQUIREMENTS, AND CITY OF LEE'S SUMMIT. 9. CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO BIDDING, SATISFY HIMSELF AS TO THE CONDITION OF EXISTING BMPS INCLUDING SEDIMENT TRAPS AND
- BASINS UNDER CURRENT OPERATION/NOI FROM THE DEMOLITION PLANS CONSTRUCTION DOCUMENTS. AT NOTICE TO PROCEED, BMPS, EXISTING PERMITS, SWPPP OPERATIONS, AND MAINTENANCE BECOMES THE CONTRACTOR'S RESPONSIBILITY.

## SANITARY SEWER NOTES

- 1. ALL SANITARY SEWER SERVICE PIPE SHALL BE PVC SDR-26. SEWER SERVICE LINE W/PUSH ON JOINTS.
- 2. INSTALL 6" ONE-WAY CLEANOUT 10' FROM BUILDING OR AS NOTED ON PLANS.
- 3. NO FOUNDATION DRAINS ARE PLANNED FOR THIS PROJECT. DOWNSPOUTS SHALL NOT BE CONNECTED TO SANITARY SEWER. DOWNSPOUTS WILL DISCHARGE AT GRADE USING SPLASHBLOCK OR TO PROPOSED STORM SEWER.
- 4. TEN FEET OF HORIZONTAL SEPARATION AND TWO FEET OF VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN WATER LINES AND THE SANITARY SEWER SERVICE LINE. 5. IN THE EVENT OF WORK IN OR ON THE SANITARY MAIN, ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE-OF.
- 6. 90-DEGREE TURNS TO BE ACCOMPLISHED WITH TWO 45-DEGREE BENDS WITH A MINIMUM OF ONE FOOT OF PIPE BETWEEN THE 45-DEGREE BENDS.
- 7. FOR VERTICAL RISERS AND ENCASEMENTS, SEE SANITARY SEWER CONNECTION SHEETS.
- 8. SANITARY SERVICE LINES SHALL BE INSTALLED BY BUILDING PLUMBER AND IN ACCORDANCE WITH THE CURRENT SERVICE LINE DESIGN AND CONSTRUCTION STANDARDS. 9. ROOF DRAINS SHALL NOT BE CONNECTED TO THE SANITARY SEWER.
- 10. REPLACE/ADD BARREL SECTIONS AS REQUIRED TO MEET THE GRADE REQUIREMENTS.
- 11. MANHOLE STATIONS AND PIPE LENGTHS SHOWN ON PLANS ARE TO THE CENTER OF MANHOLES. DO NOT SCALE DRAWINGS.
- 12. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PAVEMENT OR SIDEWALKS DAMAGED DURING THE CONSTRUCTION OF THE SANITARY SEWER SERVICE LINE.

## AMERICAN WITH DISABILITIES ACT. (ADA)

- 1. ADA PARKING SPACES, MARKINGS AND ACCESS TO THE BUILDING(S) SHALL COMPLY WITH ADA.
- 2. ALL CONSTRUCTION TRAFFIC, TEMPORARY TRAFFIC CONTROL DEVICES, AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

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QA/QC by:

project no.:

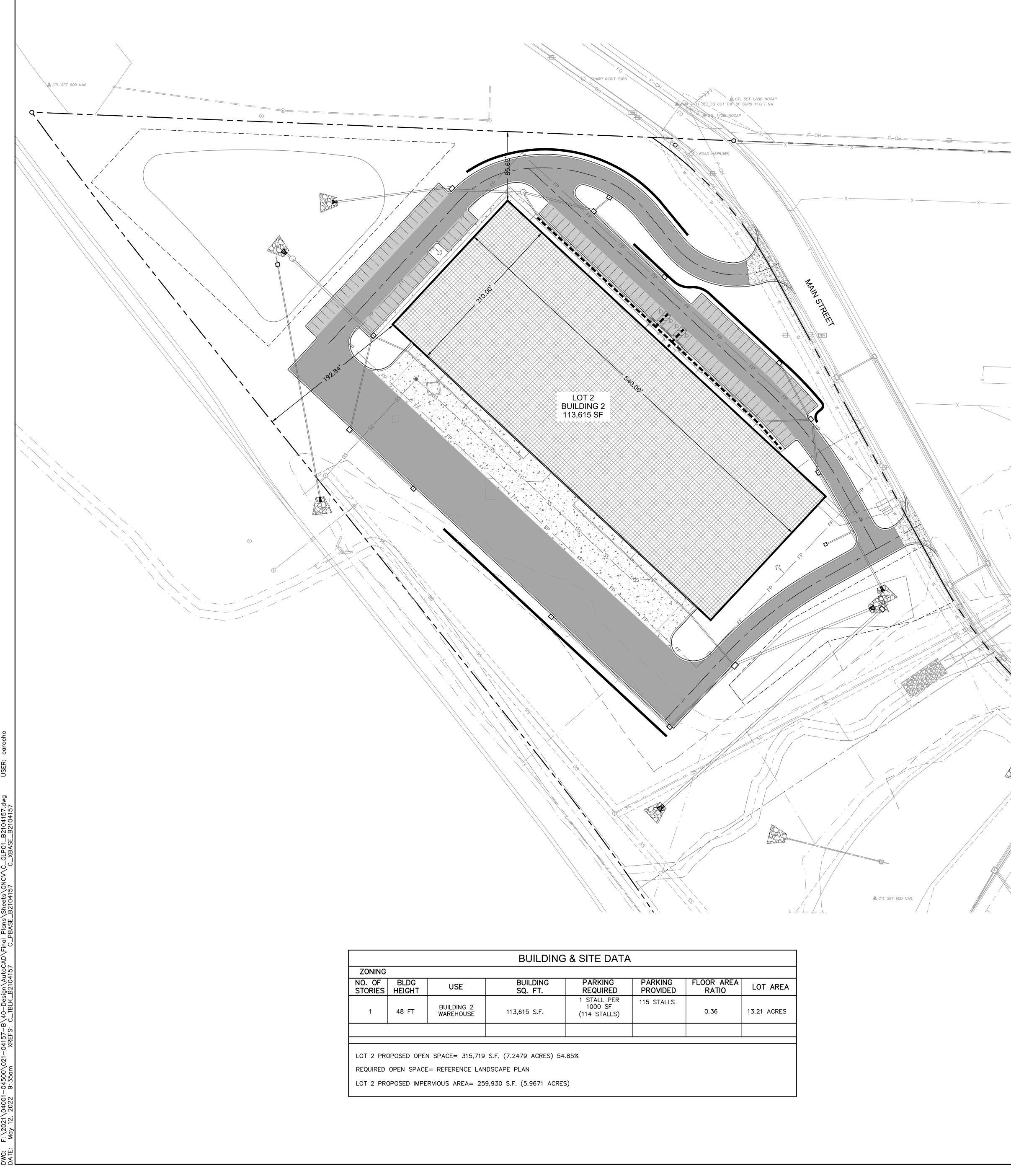
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drawing no TTL01 B2104157 dwg

date: 03.11.2022

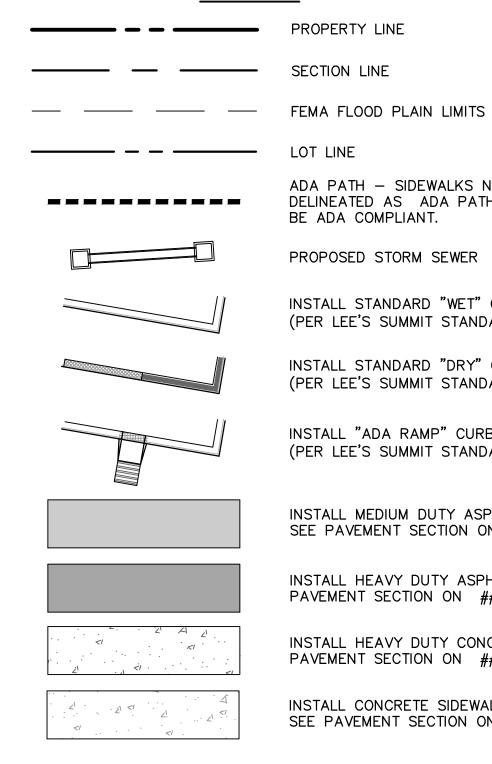
SHEET

C1.01



BUILDING & SITE DATA					
		DADKINO	DADKINO		
USE	BUILDING SQ. FT.	PARKING REQUIRED	PARKING PROVIDED	FLOOR AREA RATIO	LOT AREA
BUILDING 2 WAREHOUSE	113,615 S.F.	1 STALL PER 1000 SF (114 STALLS)	115 STALLS	0.36	13.21 ACRES
SPACE= 315,719 S.F. (7.2479 ACRES) 54.85% REFERENCE LANDSCAPE PLAN					

## LEGEND



SECTION LINE LOT LINE ADA PATH - SIDEWALKS NOT DELINEATED AS ADA PATHS WILL NOT BE ADA COMPLIANT. PROPOSED STORM SEWER INSTALL STANDARD "WET" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL) INSTALL STANDARD "DRY" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL) INSTALL "ADA RAMP" CURB & GUTTER (PER LEE'S SUMMIT STANDARD DETAIL) INSTALL MEDIUM DUTY ASPHALT SEE PAVEMENT SECTION ON ##### INSTALL HEAVY DUTY ASPHALT SEE PAVEMENT SECTION ON ##### INSTALL HEAVY DUTY CONCRETE SEE PAVEMENT SECTION ON ##### INSTALL CONCRETE SIDEWALK SEE PAVEMENT SECTION ON #####

## PROPERTY DESCRIPTION

ALL THAT PART OF AN UNPLATTED TRACT OF LAND, TOGETHER WITH ALL THAT PART OF NORTH MAIN STREET RIGHT OF WAY, ALL LYING IN THE WEST HALF OF SECTION 31, TOWNSHIP 48 NORTH, RANGE 31 WEST, LYING IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, DESCRIBED BY PATRICK ETHAN WARD, MO PLS-20050071, OF OLSSON MOLC-366, ON OCTOBER 14, 2021, AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF THE SOUTHWEST QUARTER OF SECTION 31, TOWNSHIP 48 NORTH, RANGE 31 WEST; THENCE SOUTH 01 DEGREE 59 MINUTES 47 SECONDS WEST, ON THE EAST LINE OF SAID SOUTHWEST QUARTER, A DISTANCE OF 65.98 FEET TO A POINT ON THE WEST LINE OF NW SLOAN STREET RIGHT OF WAY, AS ESTABLISHED IN DOCUMENT 2013E0075031, SAID POINT ALSO LYING ON A NON-TANGENT CURVE; THENCE IN A SOUTHERLY DIRECTION, DEPARTING SAID EAST LINE, ON SAID WEST LINE AND ON A CURVE TO THE RIGHT WHOSE INITIAL TANGENT BEARS SOUTH 02 DEGREES 47 MINUTES 37 SECONDS WEST, HAVING A RADIUS OF 970.00 FEET, THROUGH A CENTRAL ANGLE OF 6 DEGREES 27 MINUTES 07 SECONDS, AN ARC DISTANCE OF 109.23 FEET TO A POINT OF TANGENCY; THENCE SOUTH 09 DEGREES 14 MINUTES 44 SECONDS WEST, CONTINUING ON SAID WEST LINE, A DISTANCE OF 111.80 FEET TO A POINT OF CURVATURE; THENCE IN A SOUTHERLY DIRECTION, CONTINUING ON SAID WEST LINE AND ON A CURVE TO THE LEFT, HAVING A RADIUS OF 1030.00 FEET, THROUGH A CENTRAL ANGLE OF 7 DEGREES 14 MINUTES 57 SECONDS, AN ARC DISTANCE OF 130.32 FEET TO A POINT OF TANGENCY; THENCE SOUTH 01 DEGREE 59 MINUTES 47 SECONDS WEST, CONTINUING ON SAID WEST LINE, A DISTANCE OF 69.49 FEET TO A POINT ON THE NORTH LINE OF NE TUDOR ROAD RIGHT OF WAY, AS ESTABLISHED IN SAID DOCUMENT 2013E0075031; THENCE SOUTH 46 DEGREES 15 MINUTES 48 SECONDS WEST, DEPARTING SAID WEST LINE, ON SAID NORTH LINE, A DISTANCE OF 46.09 FEET TO A POINT; THENCE NORTH 89 DEGREES 24 MINUTES 16 SECONDS WEST, CONTINUING ON SAID NORTH LINE, AND ON THE NORTH LINE OF NW TUDOR ROAD RIGHT OF WAY, AS ESTABLISHED IN DOCUMENT 2013E0075030, A DISTANCE OF 1249.23 FEET TO A POINT ON THE EAST LINE OF UNION PACIFIC RAILROAD RIGHT OF WAY, AS NOW ESTABLISHED, SAID POINT ALSO LYING ON A NON-TANGENT CURVE; THENCE IN A NORTHERLY AND NORTHWESTERLY DIRECTION, DEPARTING SAID NORTH LINE, ON SAID EAST LINE AND ON A CURVE TO THE LEFT WHOSE INITIAL TANGENT BEARS NORTH 15 DEGREES 46 MINUTES 27 SECONDS WEST, HAVING A RADIUS OF 3203.90 FEET, THROUGH A CENTRAL ANGLE OF 22 DEGREES 48 MINUTES 11 SECONDS, AN ARC DISTANCE OF 1275.12 FEET TO A POINT OF TANGENCY; THENCE NORTH 38 DEGREES 34 MINUTES 39 SECONDS WEST, CONTINUING ON SAID EAST LINE, A DISTANCE OF 738.40 FEET TO A POINT OF CURVATURE; THENCE IN A NORTHWESTERLY DIRECTION, CONTINUING ON SAID EAST LINE AND ON A CURVE TO THE RIGHT, HAVING A RADIUS OF 5981.13 FEET, THROUGH A CENTRAL ANGLE OF 2 DEGREES 39 MINUTES 22 SECONDS, AN ARC DISTANCE OF 277.27 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH HALF OF THE NORTHWEST QUARTER OF SAID SECTION 31, SAID POINT ALSO LYING ON A NON-TANGENT LINE; THENCE SOUTH 87 DEGREES 40 MINUTES 30 SECONDS EAST, DEPARTING SAID EAST LINE, ON SAID NORTH LINE, A DISTANCE OF 884.17 FEET TO A POINT ON A NON-TANGENT CURVE; THENCE IN A SOUTHEASTERLY DIRECTION, DEPARTING SAID NORTH LINE, ON A CURVE TO THE RIGHT WHOSE INITIAL TANGENT BEARS SOUTH 45 DEGREES 29 MINUTES 38 SECONDS EAST, HAVING A RADIUS OF 544.00 FEET, THROUGH A CENTRAL ANGLE OF 16 DEGREES 50 MINUTES 44 SECONDS, AN ARC DISTANCE OF 159.94 FEET TO A POINT OF TANGENCY; THENCE SOUTH 28 DEGREES 38 MINUTES 55 SECONDS EAST A DISTANCE OF 437.58 FEET TO A POINT OF CURVATURE; THENCE IN A SOUTHEASTERLY AND EASTERLY DIRECTION, ON A CURVE TO THE LEFT, HAVING A RADIUS OF 476.00 FEET, THROUGH A CENTRAL ANGLE OF 63 DEGREES 19 MINUTES 59 SECONDS, AN ARC DISTANCE OF 526.16 FEET TO A POINT OF TANGENCY; THENCE NORTH 88 DEGREES 01 MINUTE 06 SECONDS EAST A DISTANCE OF 416.85 FEET TO A POINT OF CURVATURE; THENCE IN AN EASTERLY AND SOUTHEASTERLY DIRECTION, ON A CURVE TO THE RIGHT, HAVING A RADIUS OF 544.00 FEET, THROUGH A CENTRAL ANGLE OF 65 DEGREES 51 MINUTES 08 SECONDS, AN ARC DISTANCE OF 625.24 FEET TO A POINT ON A NON-TANGENT LINE, SAID POINT ALSO LYING ON THE EAST LINE OF SAID NORTHWEST QUARTER; THENCE SOUTH 01 DEGREE 53 MINUTES 30 SECONDS WEST, ON SAID EAST LINE, A DISTANCE OF 338.00 FEET TO THE POINT OF BEGINNING, CONTAINING 2,375,437 SQUARE FEET OR 54.5325 ACRES, MORE OR LESS.

PROPERTY OWNER/ DEVELOPER SCANNELL PROPERTIES #603, LLC 8801 RIVER CROSSING BLVD, SUITE 300 INDIANAPOLIS, IN 46240 PH: 317-218-1648

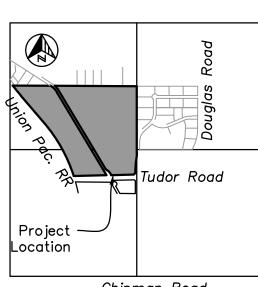
## **ENGINEER/ LANDSCAPE ARCHITECT**

OLSSON 7301 W. 133RD STREET, SUITE 200 OVERLAND PARK, KS 66213 PH: 913-381-1170 F: 913-381-1174

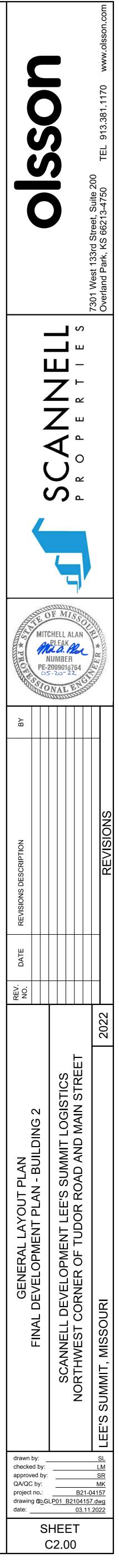
PROPOSED SITE USE INDUSTRIAL

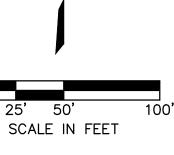
**EXISTING & PROPOSED ZONING** EXISTING: PLANNED INDUSTRIAL PROPOSED: PLANNED INDUSTRIAL

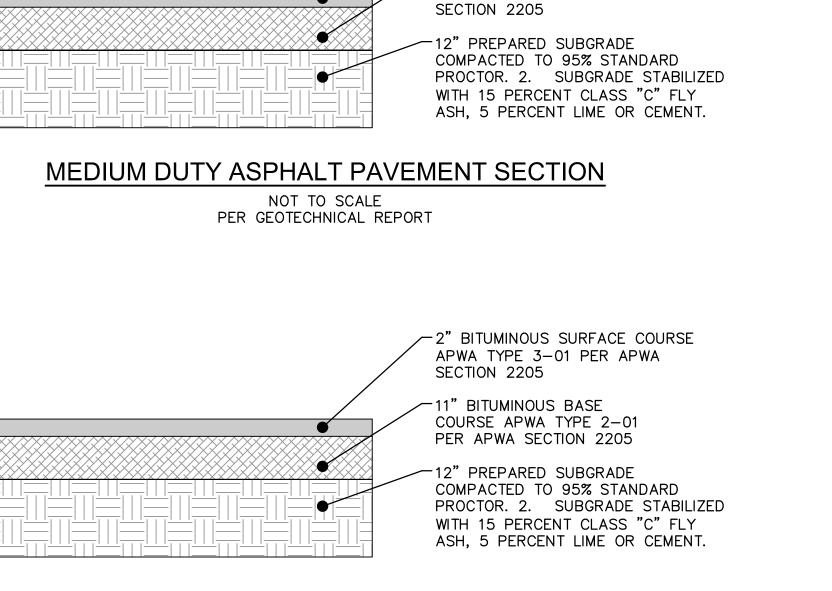
SITE AREA NET SITE AREA= 3,439,837 SQ. FT., (78.9678 AC±)



Chipman Road Section 31, T48N, R31W VICINITY MAP Scale: 1" = 2000'







✓ 2" BITUMINOUS SURFACE COURSE

APWA TYPE 3-01 PER APWA

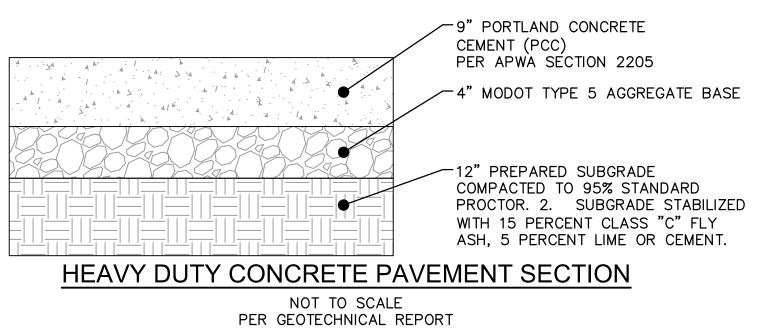
-8" BITUMINOUS BASE COURSE APWA TYPE 2-01 PER APWA

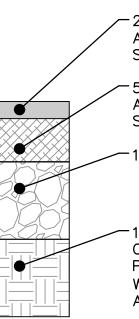
SECTION 2205

HEAVY DUTY ASPHALT PAVEMENT SECTION

NOT TO SCALE PER GEOTECHNICAL REPORT

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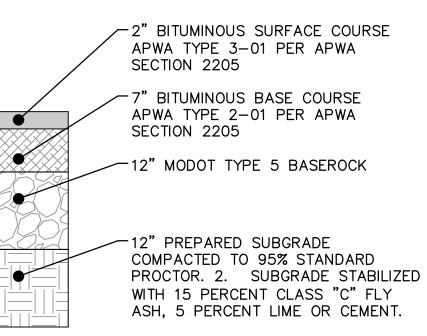
✓ 2" BITUMINOUS SURFACE COURSE APWA TYPE 3-01 PER APWA SECTION 2205 -5" BITUMINOUS BASE COURSE APWA TYPE 2-01 PER APWA SECTION 2205

-12" MODOT TYPE 5 BASEROCK

12" PREPARED SUBGRADE COMPACTED TO 95% STANDARD PROCTOR. 2. SUBGRADE STABILIZED WITH 15 PERCENT CLASS "C" FLY ASH, 5 PERCENT LIME OR CEMENT.

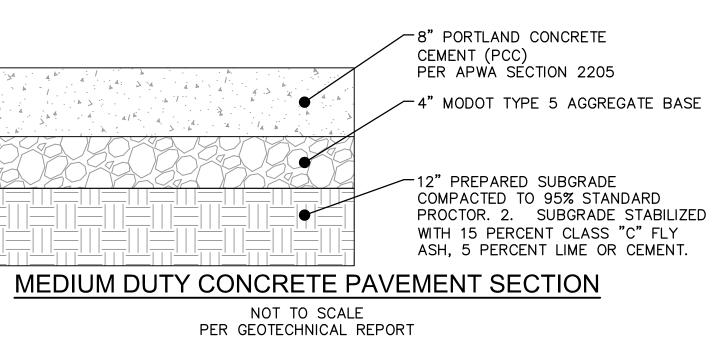
# MEDIUM DUTY ASPHALT PAVEMENT SECTION

NOT TO SCALE PER GEOTECHNICAL REPORT



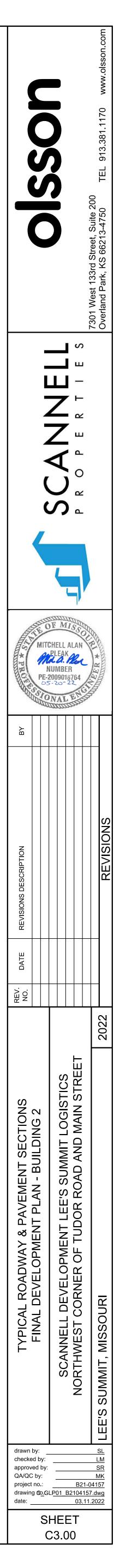
# HEAVY DUTY ASPHALT PAVEMENT SECTION

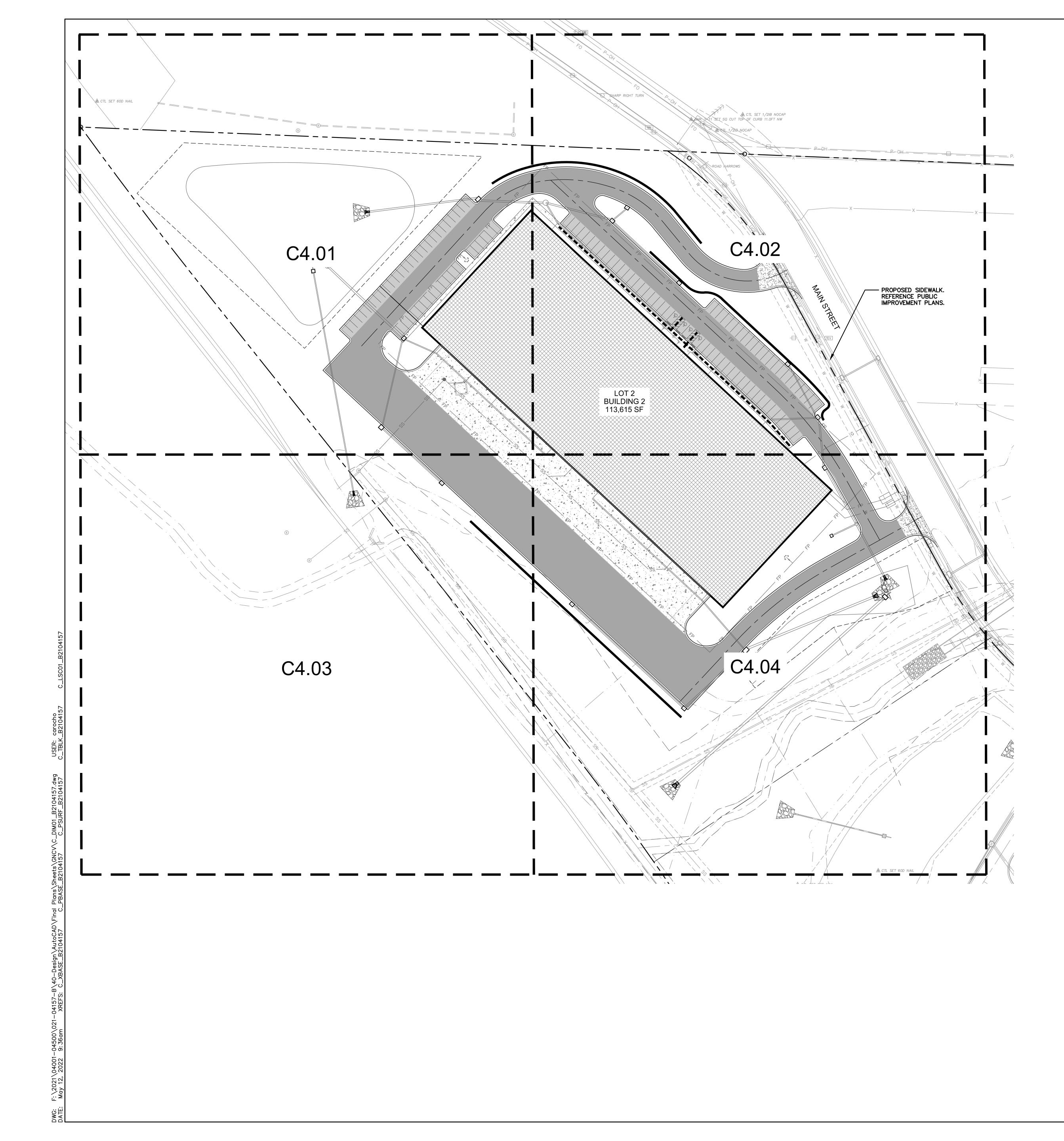
NOT TO SCALE PER GEOTECHNICAL REPORT



# NOTE

- 1. ALL CONSTRUCTION, SITE PREPARATION, GRADING, AND EXCAVATION PROCEDURES SHALL CONFORM TO RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL REPORT INCLUDING ADDENDUMS. CONTRACTOR SHALL CONTACT ENGINEER WITH ANY DISCREPANCIES OR CONCERNS BASED ON ACTUAL SITE CONDITIONS. 2. GEOTECHNICAL REPORT GOVERNS ONLY IF IT MEETS OR EXCEEDS CITY
- REQUIREMENTS. 3. SUBGRADE STABILIZED WITH 15 PERCENT CLASS "C" FLY ASH, 5 PERCENT LIME
- OR CEMENT.





# DIMENSION PLAN LEGEND

	PROPERTY LINE
	LOT LINE
	UTILITY EASEMENT
· · · ·	BUILDING SET/BACK/I
	SAWCUT PAVEMENT F
	ADA PATH — SIDEWAL DELINEATED AS ADA BE ADA COMPLIANT.
	PROPOSED STORM SE
	INSTALL STANDARD "\ (PER LEE'S SUMMIT S
	INSTALL STANDARD "I (PER LEE'S SUMMIT S
	INSTALL "ADA RAMP" (PER LEE'S SUMMIT S
	INSTALL MEDIUM DUT
	INSTALL HEAVY DUTY PAVEMENT SECTION C
	INSTALL HEAVY DUTY PAVEMENT SECTION C
	INSTALL CONCRETE SI SEE PAVEMENT SECTIO

K/LANDSCAPE BUFFER FULL DEPTH WALKS NOT DA PATHS WILL NOT

SEWER "WET" CURB & GUTTER STANDARD DETAIL) "DRY" CURB & GUTTER STANDARD DETAIL)

CURP & CUTTER

P"CURB & GUTTER STANDARD DETAIL)

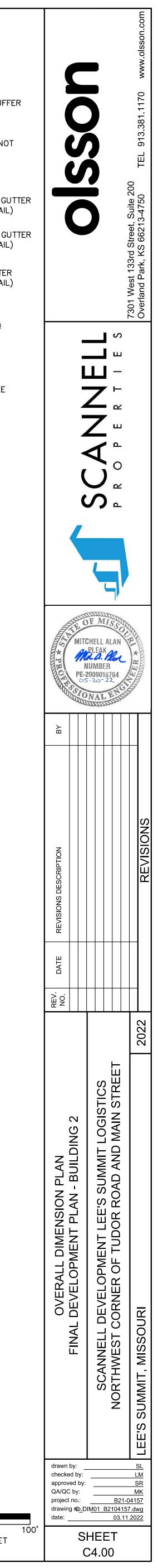
JTY ASPHALT CTION ON #####

TY ASPHALT SEE ON #####

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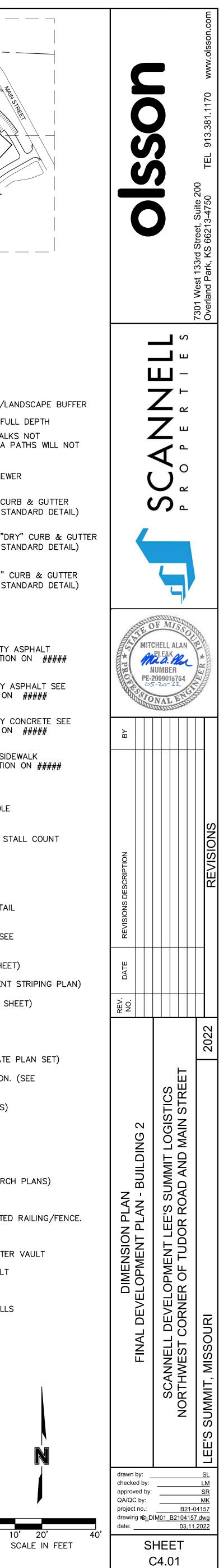
SIDEWALK CTION ON #####

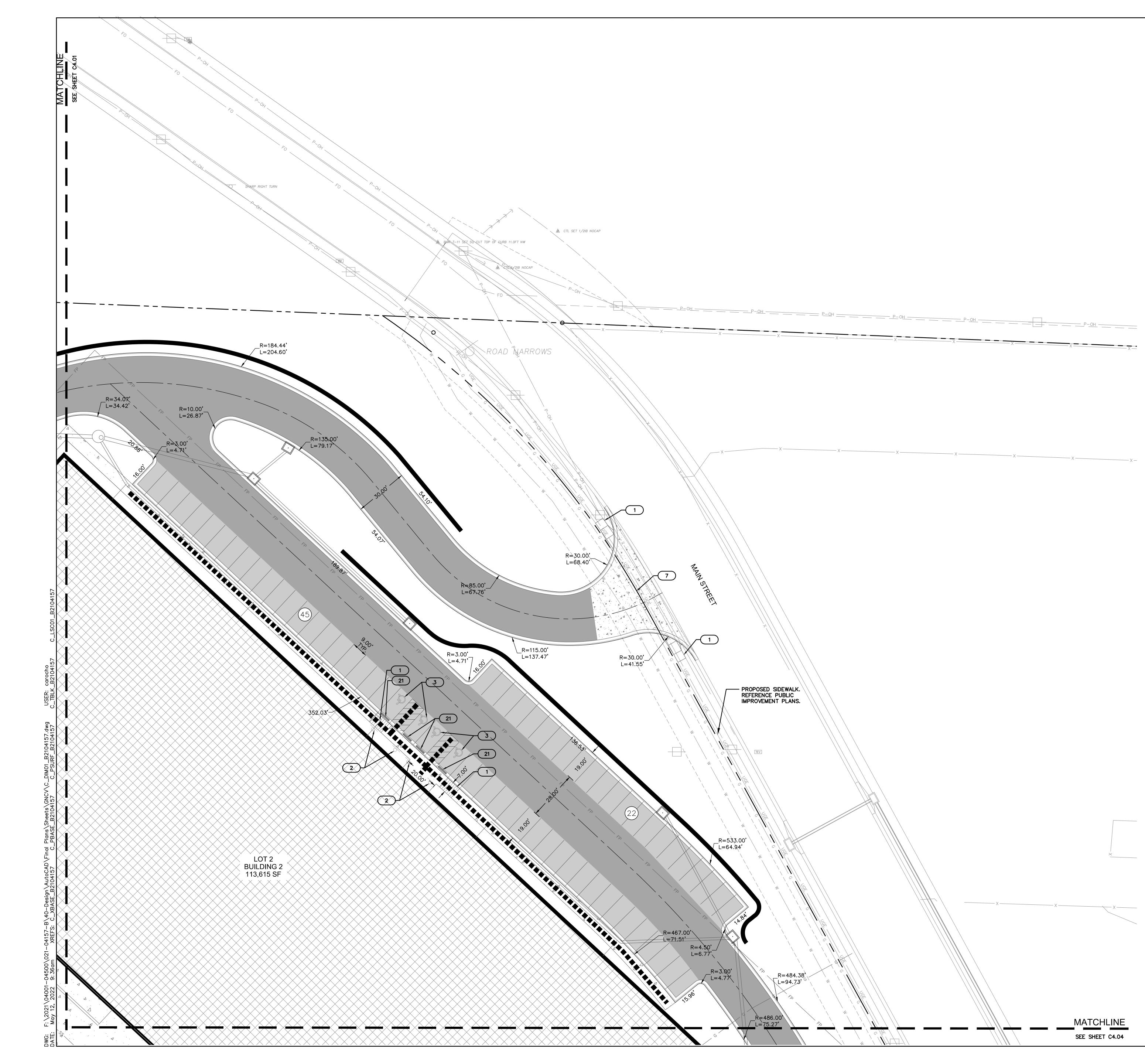
0' 25' 50' SCALE IN FEET





	C4.01	C4.02
	C4.03	C4.04
		<b>Y MAP</b> T TO SCALE
	DIMENSION PLAN	N LEGEND
		PROPERTY LINE
		LOT LINE UTILITY EASEMENT BUILDING SET/BACK/LAI SAWCUT PAVEMENT FUL ADA PATH – SIDEWALKS DELINEATED AS ADA P BE ADA COMPLIANT.
		PROPOSED STORM SEWE
		INSTALL STANDARD CUR (PER LEE'S SUMMIT STA
		INSTALL STANDARD "DR (PER LEE'S SUMMIT STA
		INSTALL "ADA RAMP" C (PER LEE'S SUMMIT STA
		INSTALL MEDIUM DUTY A
		INSTALL HEAVY DUTY A PAVEMENT SECTION ON
		INSTALL HEAVY DUTY C PAVEMENT SECTION ON
		INSTALL CONCRETE SIDE
	<1	SEE PAVEMENT SECTION
	•	PROPOSED LIGHT POLE
	$(\times \times)$	PROPOSED PARKING STA
KEY	NOTES # CONSTRUCT ADA ACCESS SHEET)	SIBLE RAMP. (SEE DETAIL
2	PROPOSED ADA ACCESSI DETAIL SHEET). SIGNS PF	
3 4 5 6 7 8	ADA PARKING STALL LAY PROPOSED PAVEMENT ST PROPOSED CONCRETE SID PROPOSED TRANSFORMER PROPOSED CONCRETE AP PARKING AND STREET LIC	RIPING. (SEE PAVEMENT DEWALK. (SEE DETAIL SHI R. (SEE MEP PLANS) PRON
9 10	PROPOSED ROOF DRAIN/ STORM SHEETS) INSTALL YIELD/STOP SIGN	NS. (SEE ARCH PLANS)
11 12	PROPOSED TRAILER SPAC	
13	CONCRETE STAIRS (SEE I PROPOSED EV CHARGING	,
15	PROPOSED EV CHARGING	
16 17	PROPOSED RETAINING WA	
18 19	PROPOSED FIRE SERVICE PROPOSED DOMESTIC WA	
20	PROPOSED DOMESTIC WA	LEN METER AND VAULT
21	PROPOSED WHEEL STOP	– ADA PARKING STALLS



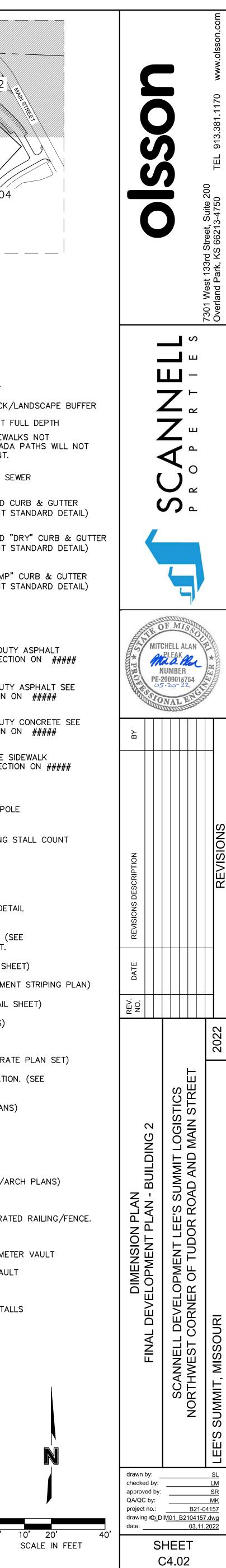


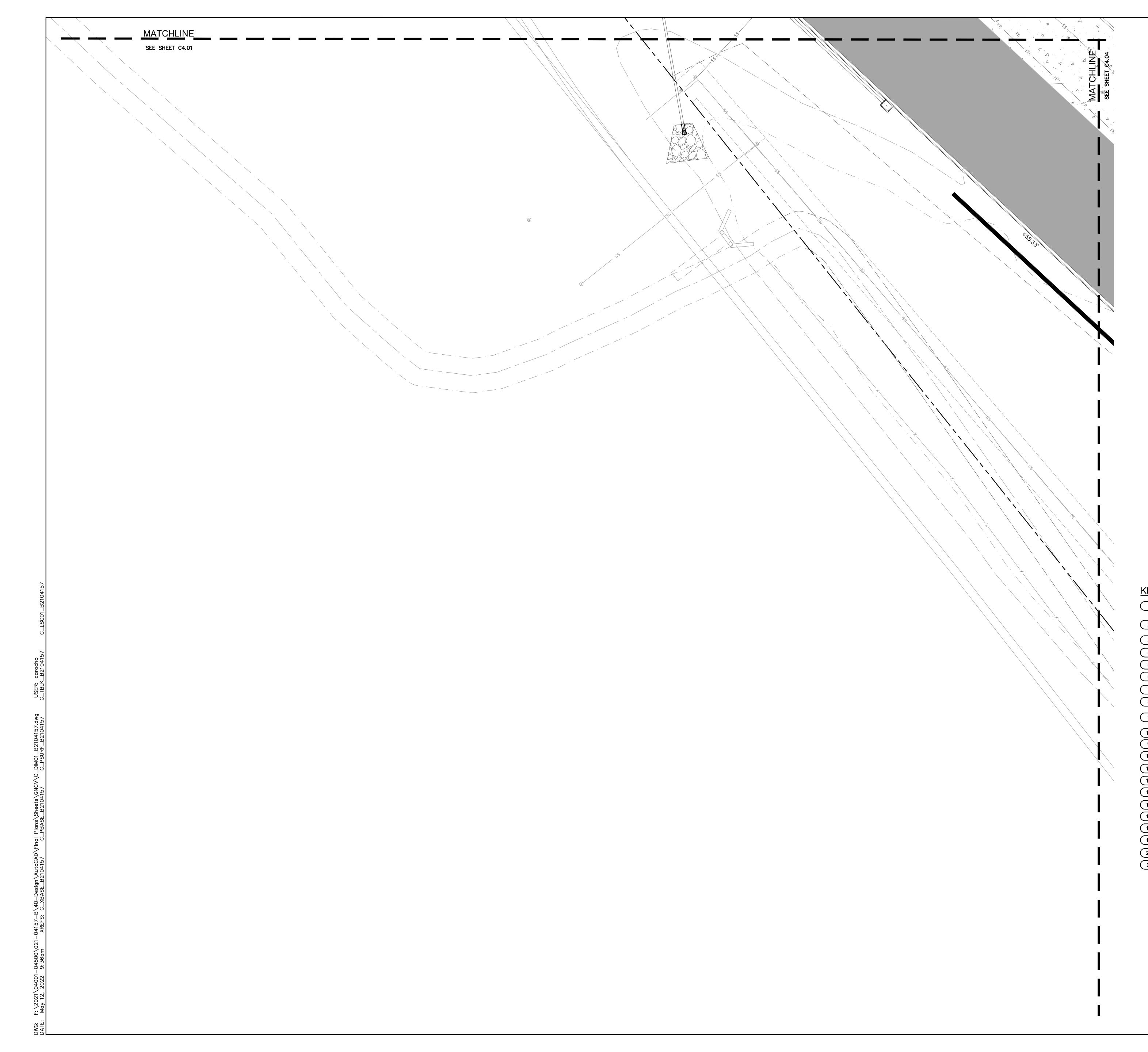
	C4.03	C4.02
		T TO SCALE
	DIMENSION PLAN	N LEGEND
		PROPERTY LINE LOT LINE UTILITY EASEMENT BUILDING SET/BACK/L SAWCUT PAVEMENT FU ADA PATH – SIDEWAL DELINEATED AS ADA BE ADA COMPLIANT. PROPOSED STORM SEV
		INSTALL STANDARD CU (PER LEE'S SUMMIT S
		INSTALL STANDARD "D (PER LEE'S SUMMIT S
		INSTALL "ADA RAMP" (PER LEE'S SUMMIT S
		INSTALL MEDIUM DUTY SEE PAVEMENT SECTIO
		INSTALL HEAVY DUTY PAVEMENT SECTION O
	····· 2' 2' 2' 2'	INSTALL HEAVY DUTY
		PAVEMENT SECTION O INSTALL CONCRETE SII SEE PAVEMENT SECTIO
	●┨────────────────────────────────────	PROPOSED LIGHT POLE
		PROPOSED PARKING S
	NOTES # CONSTRUCT ADA ACCESS SHEET) PROPOSED ADA ACCESSI	
$ \begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ \end{array} $	DETAIL SHEET). SIGNS PE ADA PARKING STALL LAY PROPOSED PAVEMENT ST PROPOSED CONCRETE SIG PROPOSED TRANSFORMER PROPOSED CONCRETE AP PARKING AND STREET LIG PROPOSED ROOF DRAIN/ STORM SHEETS) INSTALL YIELD/STOP SIG PROPOSED TRAILER SPAC PROPOSED DRY DETENTIO CONCRETE STAIRS (SEE I PROPOSED FIRE HYDRAN PROPOSED FIRE HYDRAN PROPOSED FIRE HYDRAN PROPOSED TRAILER PAR PROPOSED TRAILER PAR PROPOSED FIRE SERVICE PROPOSED FIRE SERVICE	YOUT. (SEE DETAIL SHE RIPING. (SEE PAVEMENT DEWALK. (SEE DETAIL S R. (SEE MEP PLANS) PRON GHTING. (SEE SEPARATE DOWN SPOUT LOCATION NS. (SEE ARCH PLANS) CING NUMBERING ON BASIN DETAIL SHEET) STATION(SEE MEP/ARC T ALL WITH TRAFFIC RATE KING DOLLY STRIP. BACK FLOW AND METE
20	PROPOSED WHEEL STOP	– ADA PARKING STALL

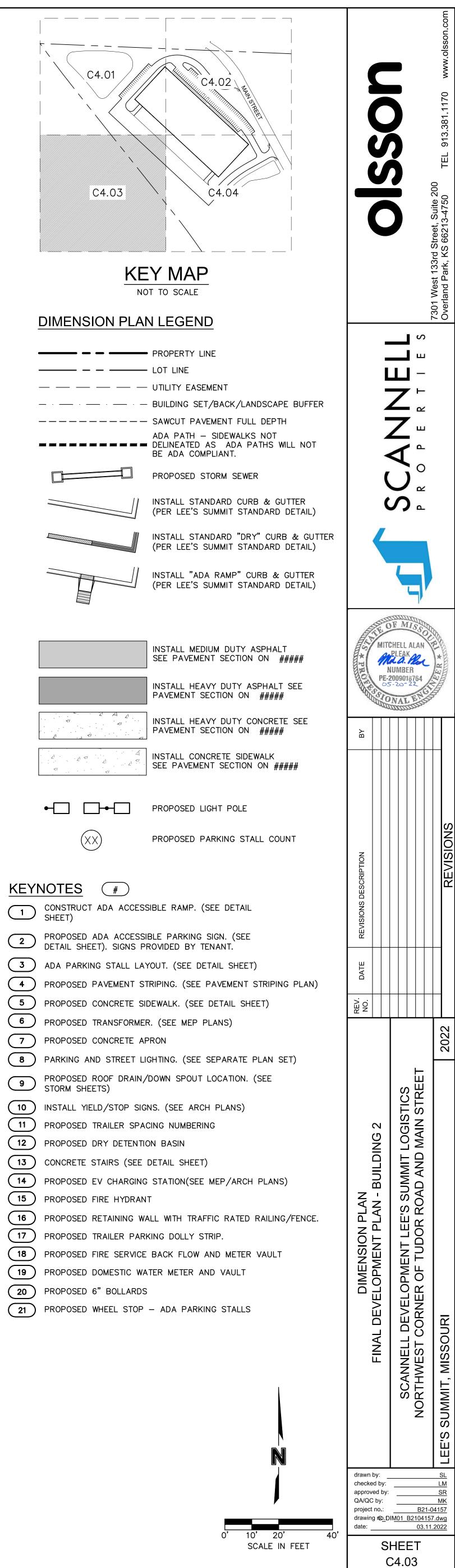
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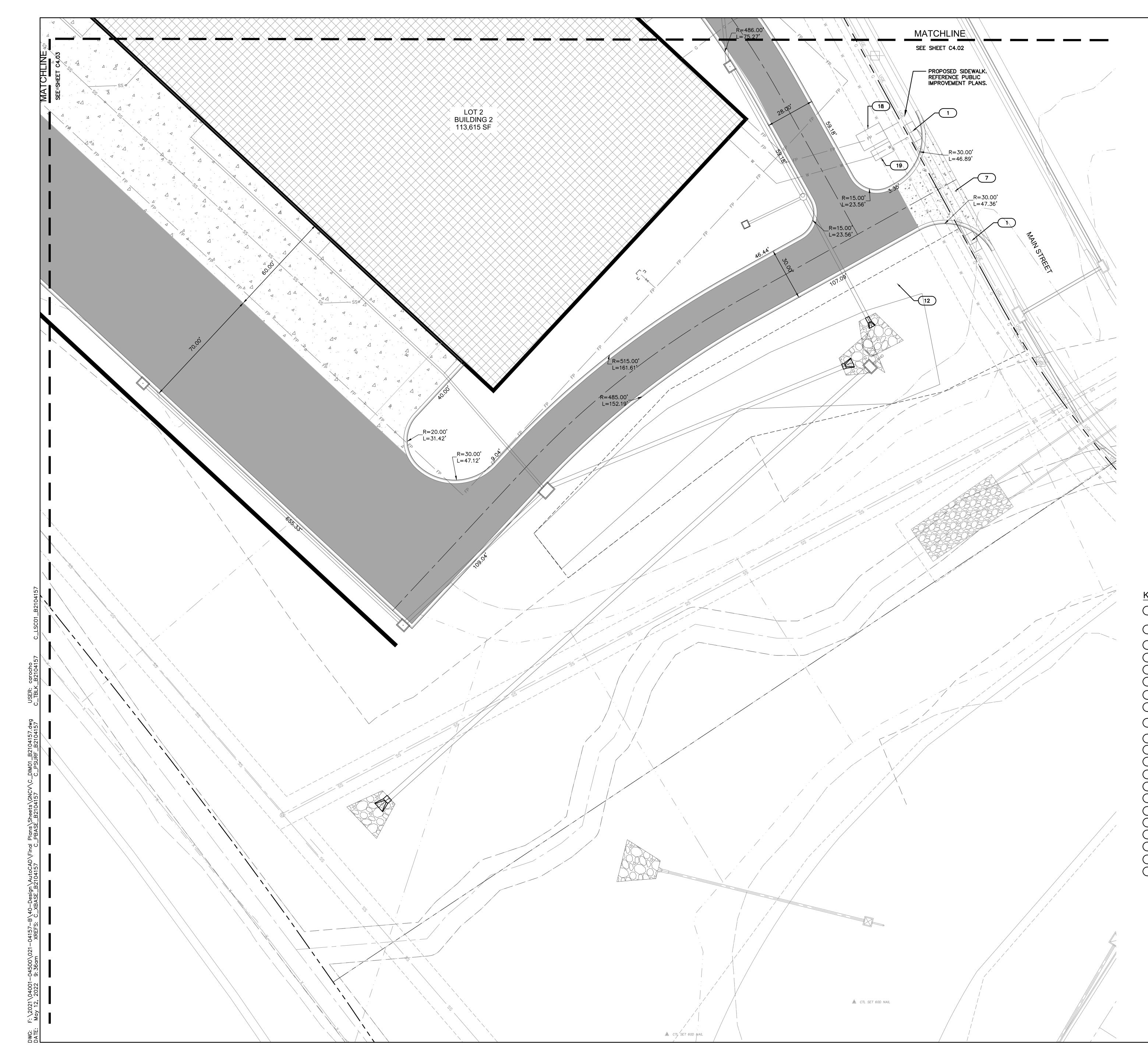
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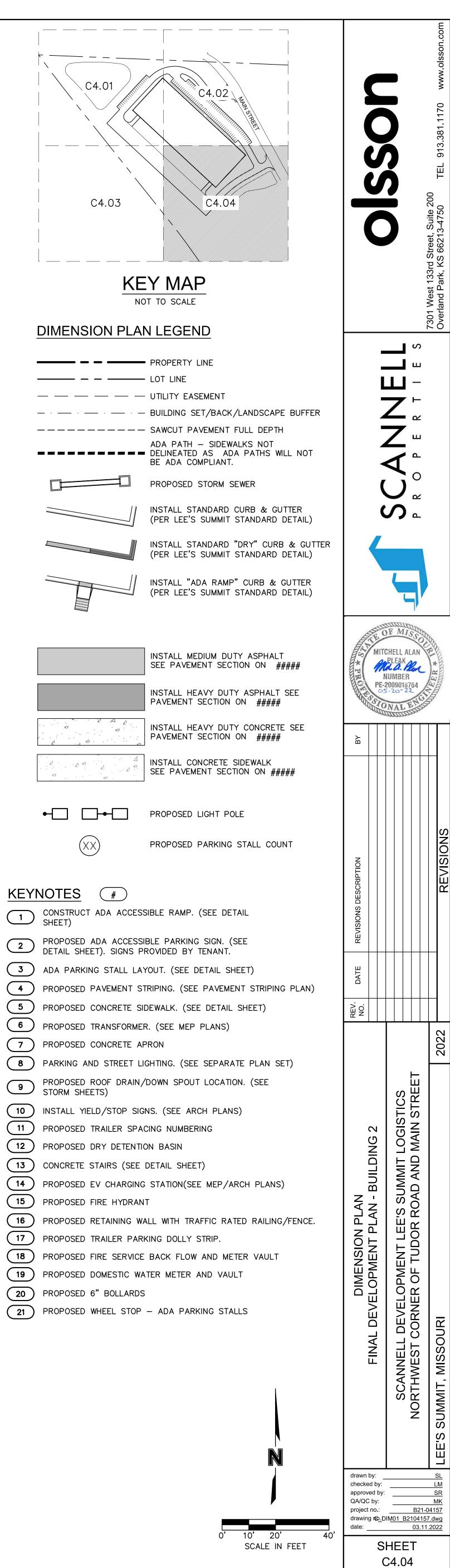
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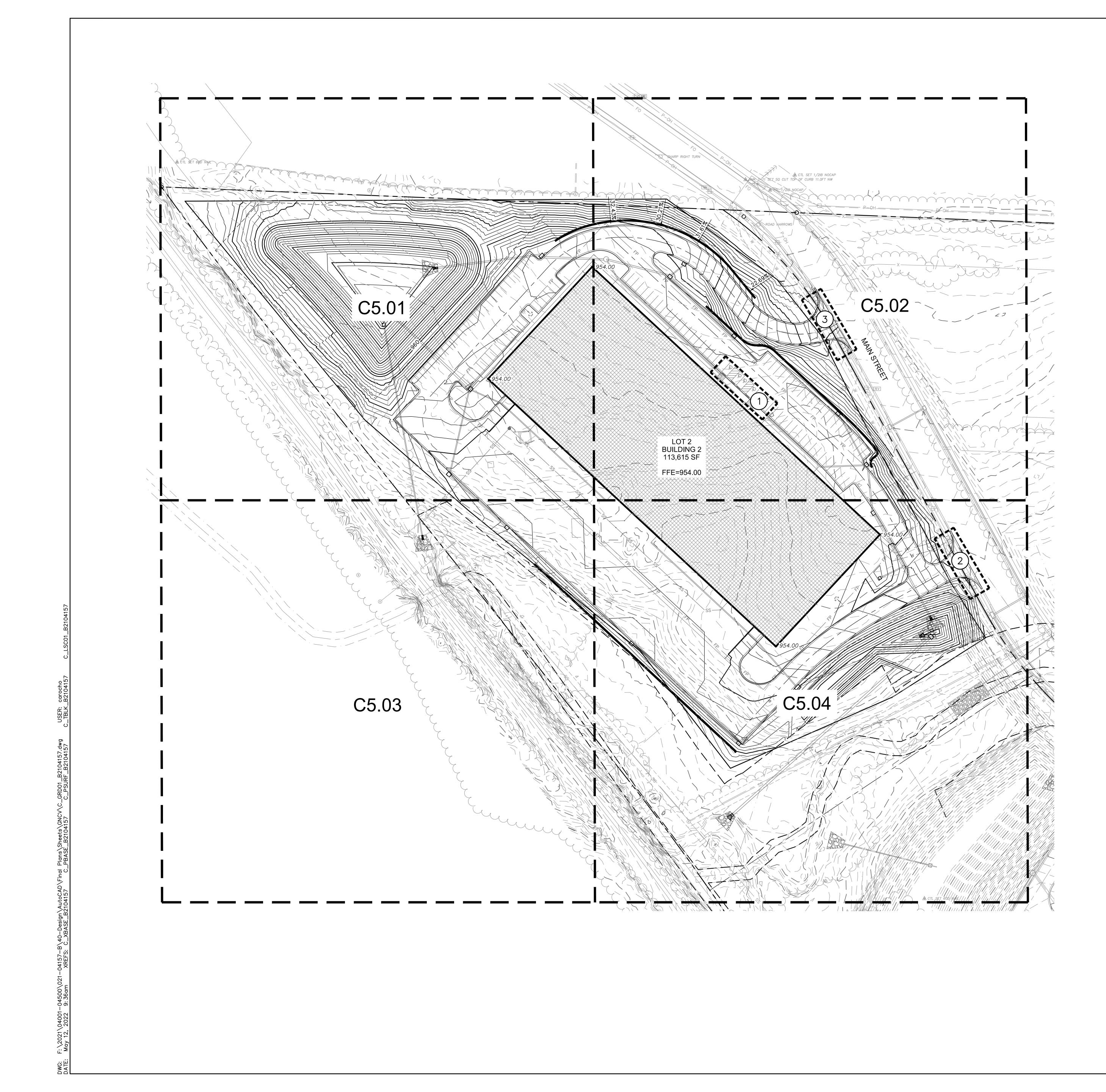






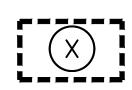






# LEGEND

SS SS
w w
P-UG
FP



# PROPERTY LINE SURROUNDING PROPERTY LINES EXISTING UTILITY EASEMENT PROPOSED CONTOUR EXISTING CONTOUR

## CONSTRUCT CONCRETE CURB & GUTTER

 SS
 SS
 PROPOSED SANITARY SERVICE LINE

 W
 W
 PROPOSED WATER SERVICE LINE

 P-UG
 PROPOSED UNDERGROUND

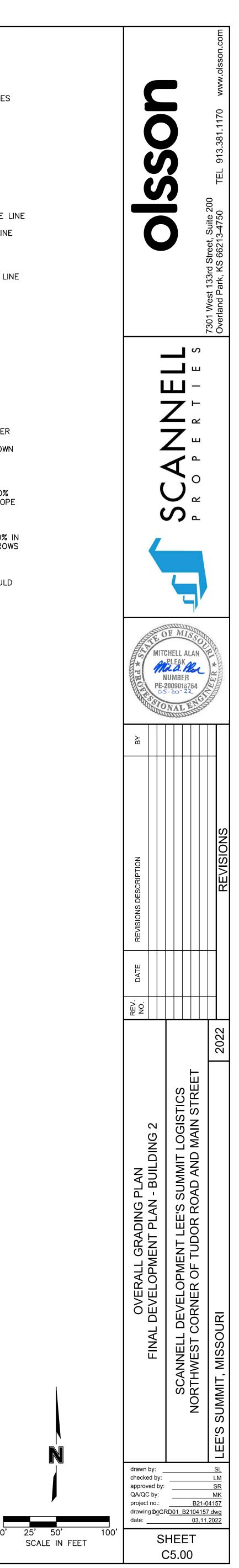
 POWER SERVICE LINE
 PROPOSED FIRE PROTECTION LINE

 COMM
 PROPOSED COMMUNICATIONS

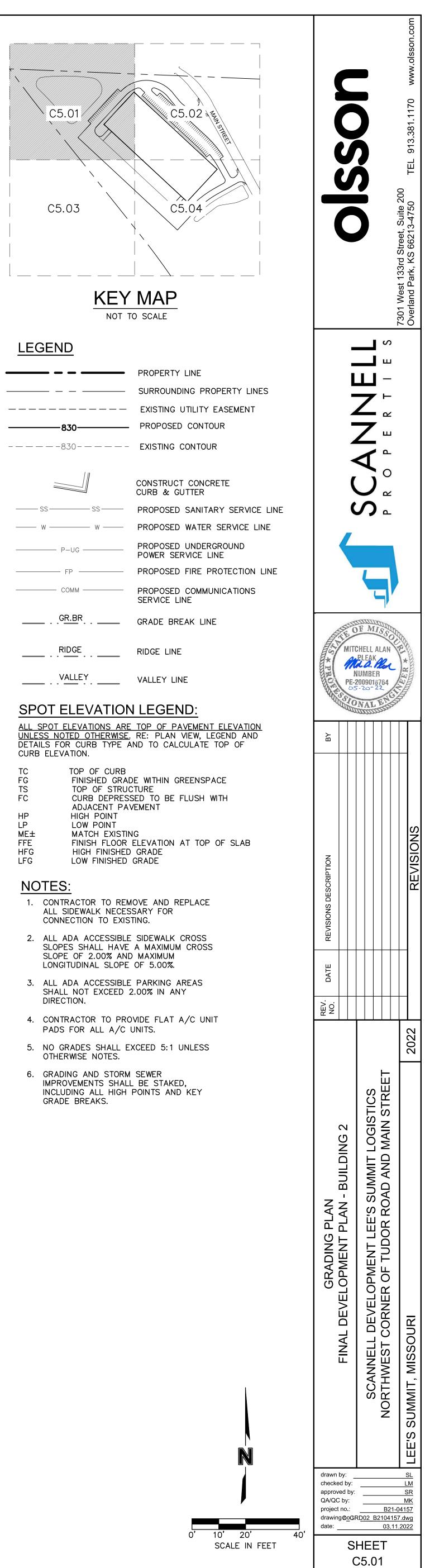
GRADING DETAILS (SEE SHEET C4.07)

# NOTES:

- CONTRACTOR TO NOTIFY ENGINEER IF EXISTING GRADES VARY SIGNIFICANTLY FROM THOSE SHOWN IN THESE PLANS.
- 2. ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
- 3. ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION. SEE SLOPE ARROWS IN PLAN VIEW ON THIS SHEET.
- FINISHED GRADE ADJACENT TO BUILDINGS (GREEN SPACE) SHOULD BE MINIMUM 6" BELOW FFE.
- 5. DO NOT DISTURB GRADES IN EXISTING UTILITY EASEMENT



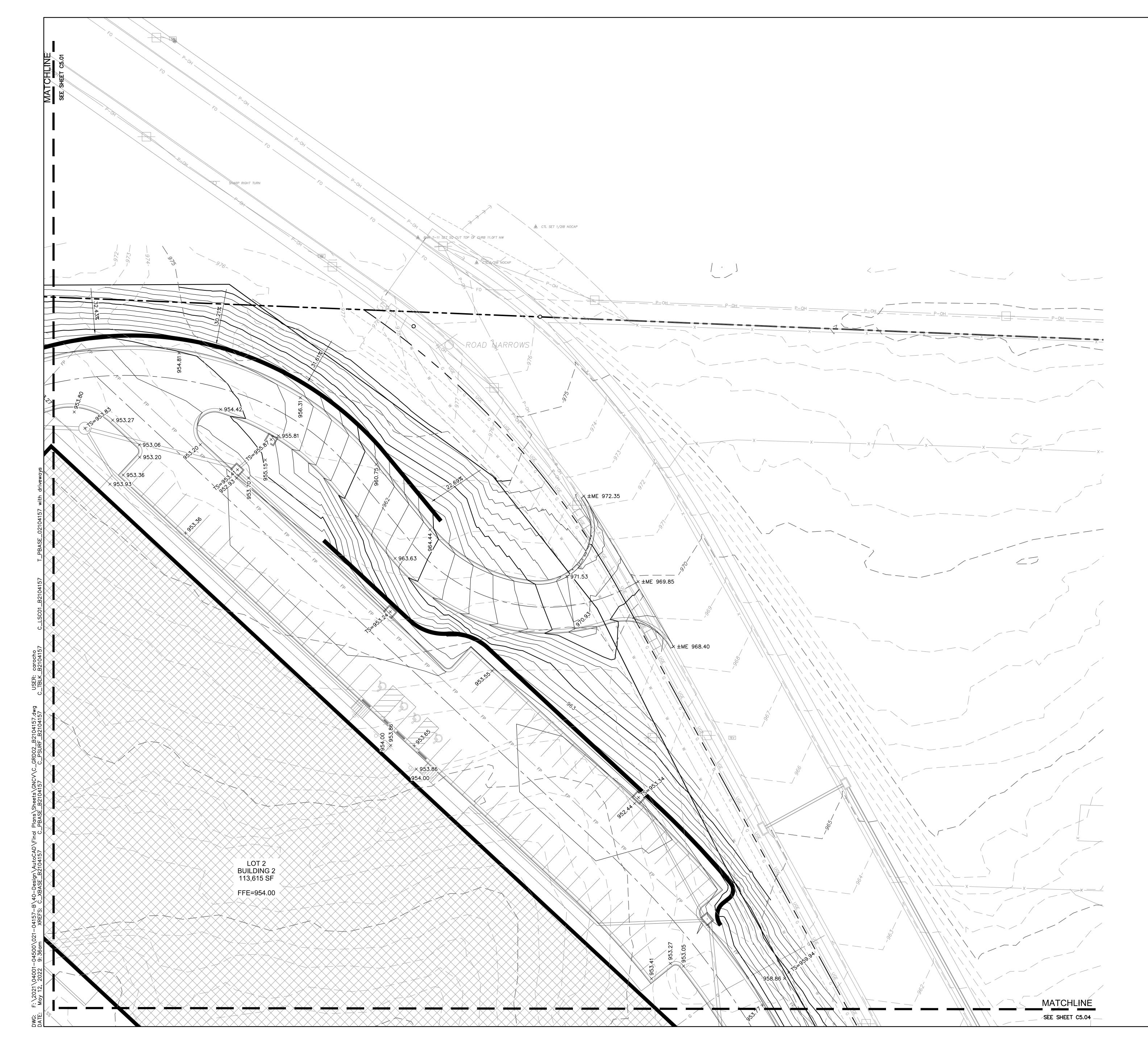


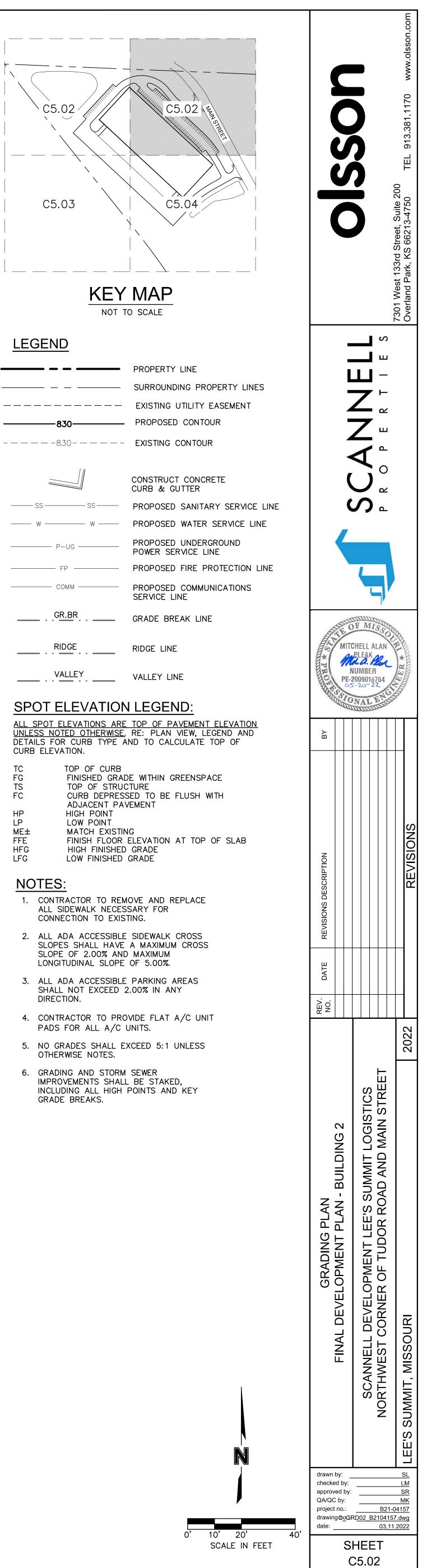


	EXISTING CONTOU
	CONSTRUCT CONC CURB & GUTTER
SS SS	PROPOSED SANITA
W W	PROPOSED WATER
P-UG	PROPOSED UNDER POWER SERVICE L
FP	PROPOSED FIRE P
СОММ	PROPOSED COMMU SERVICE LINE
GR.BR	GRADE BREAK LIN
RIDGE	RIDGE LINE

ALL	SPC	DT EL	EV/	ΑΤΙΟ	NS	ARI	E TO	ΟP	OF	PA		1EN
UNL	ESS	NOT	ED	OTH	IERV	VISE	RI	Ξ:	PLA	N	VIEV	٧,
DET/	AILS	FOR	CL	JRB	ΤYF	PE .	AND	T	C C	AL(	CUL	A TE
CUR	B El	EVA	TIOI	۷.								

TOP OF CURB
FINISHED GRADE WITHIN GREENS
TOP OF STRUCTURE
CURB DEPRESSED TO BE FLUSH
ADJACENT PAVEMENT
HIGH POINT
LOW POINT
MATCH EXISTING
FINISH FLOOR ELEVATION AT TO
HIGH FINISHED GRADE
LOW FINISHED GRADE

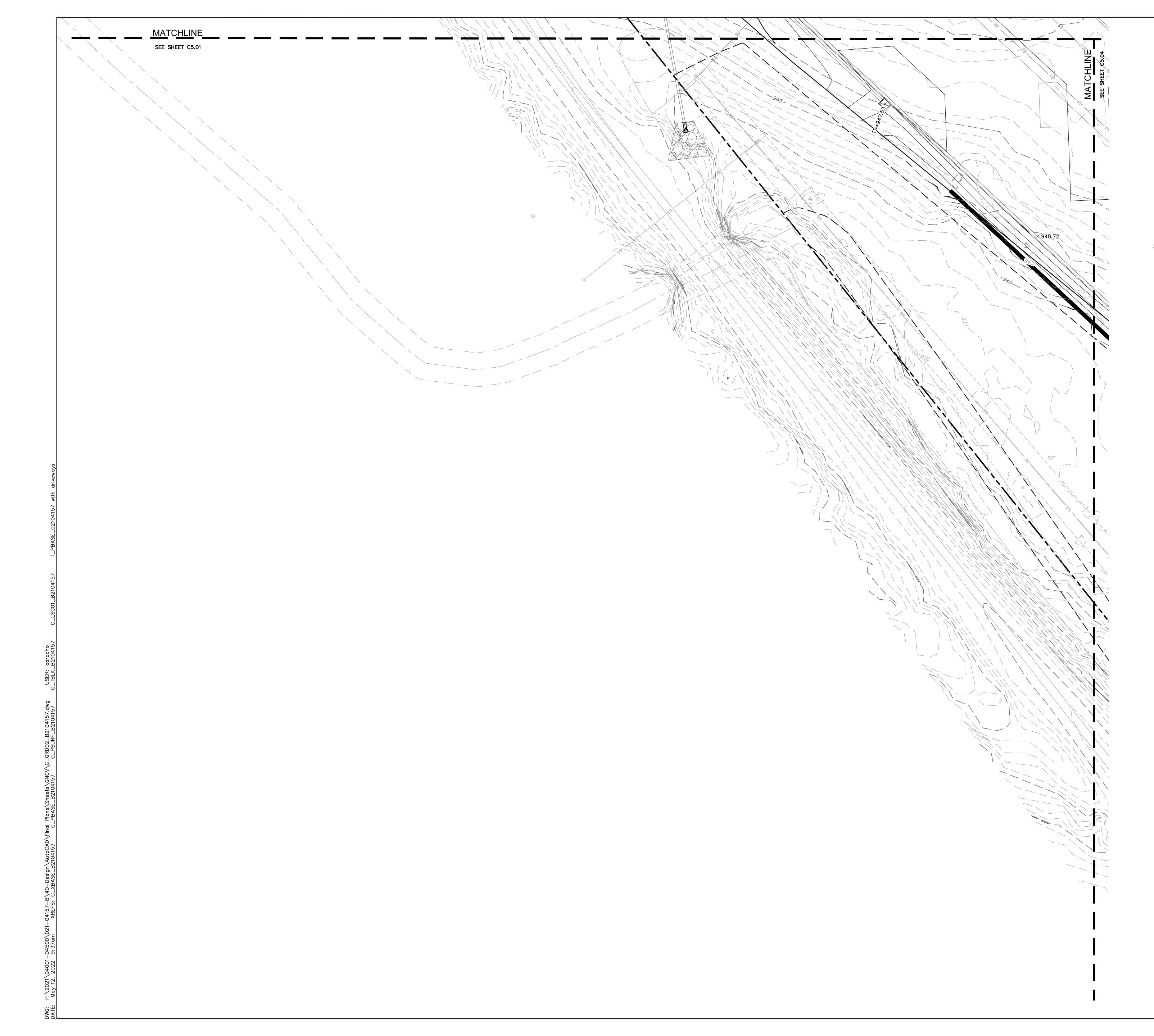


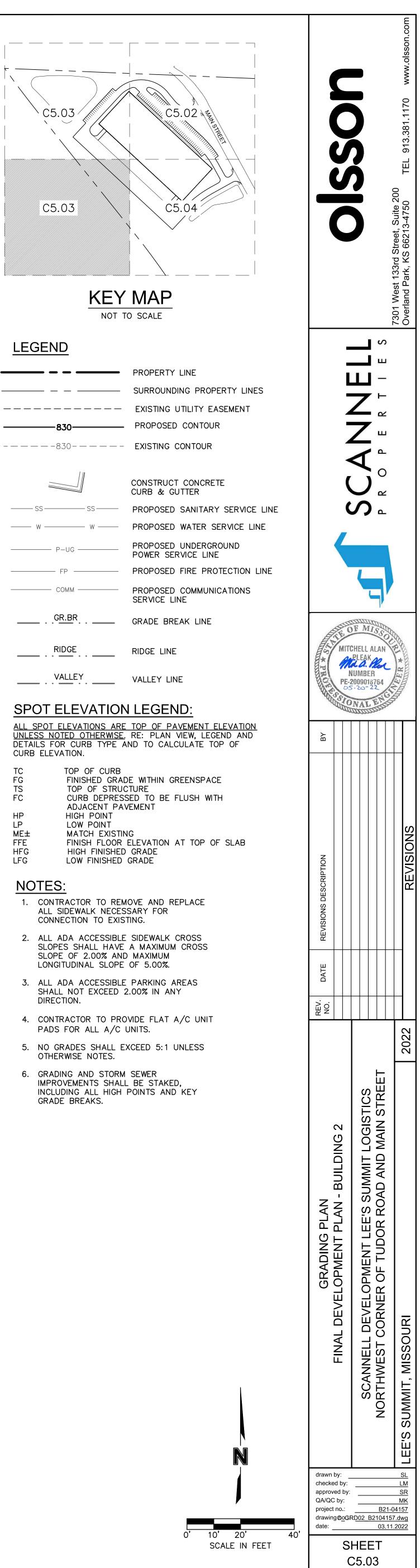


	PROPERTY LINE
	SURROUNDING PR
	EXISTING UTILITY
	PROPOSED CONT
830	EXISTING CONTOU
	CONSTRUCT CONC CURB & GUTTER
SS SS	PROPOSED SANIT
W W	PROPOSED WATER
P-UG	PROPOSED UNDER POWER SERVICE I
FP	PROPOSED FIRE F
COMM	PROPOSED COMM SERVICE LINE
G <u>R.B</u> R	GRADE BREAK LIN
RIDGE	RIDGE LINE

ALL :	SPC	DT EL	EVAT	IONS	ARE	Е ТО	ΡC	FP	AVE	MEN
UNLE	SS	NOTE	ED O	[HER]	WISE	. RE	: P	LAN	VIE'	W,
DETA	ILS	FOR	CUR	B TY	PE /	AND	ΤO	CAL	.CUL	ATE
CURE	B EL	_EVA1	TION.							

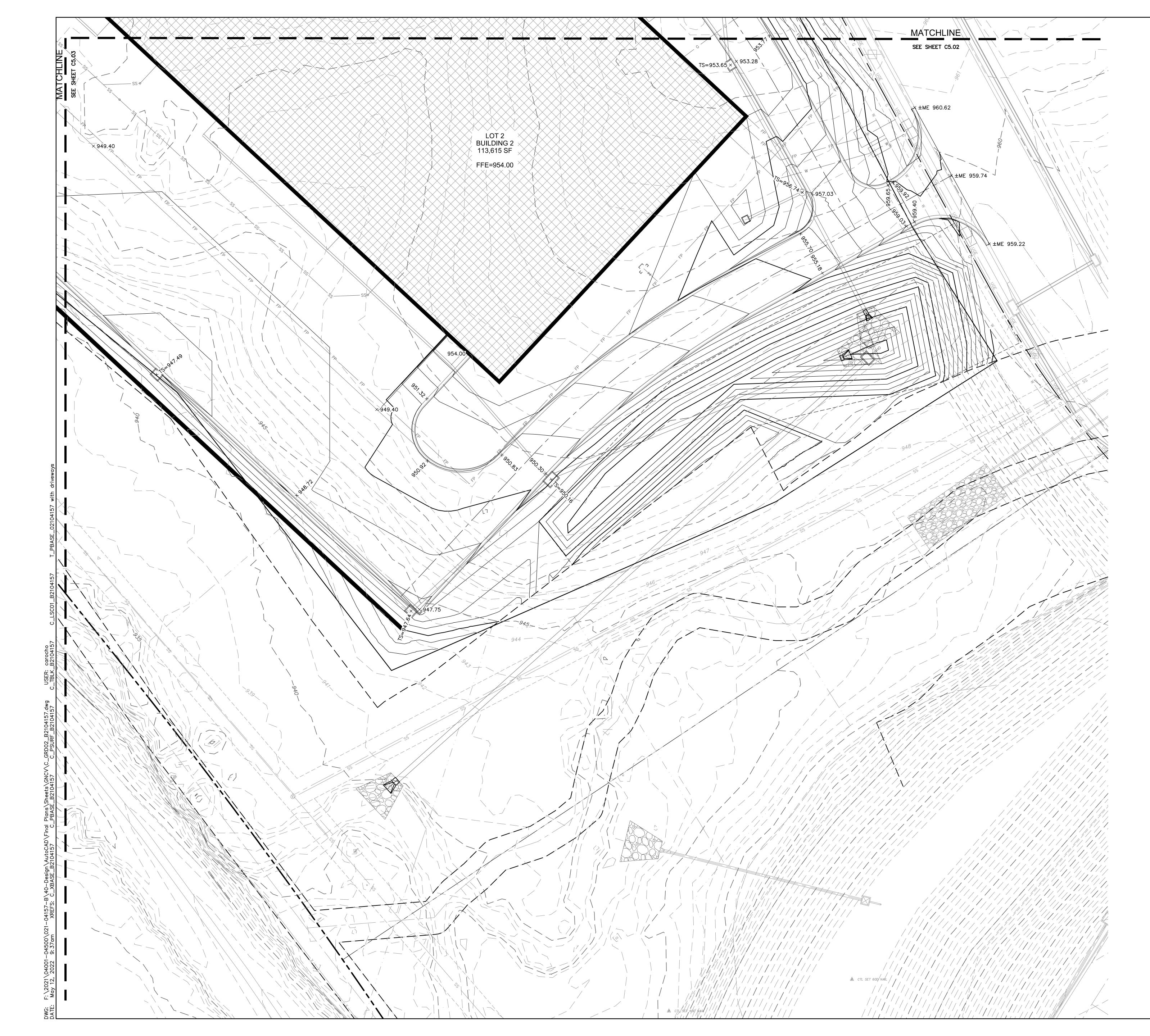
TOP OF CURB FINISHED GRADE WITHIN GREENS TOP OF STRUCTURE CURB DEPRESSED TO BE FLUSH
ADJACENT PAVEMENT
HIGH POINT LOW POINT
MATCH EXISTING
FINISH FLOOR ELEVATION AT TO
HIGH FINISHED GRADE LOW FINISHED GRADE

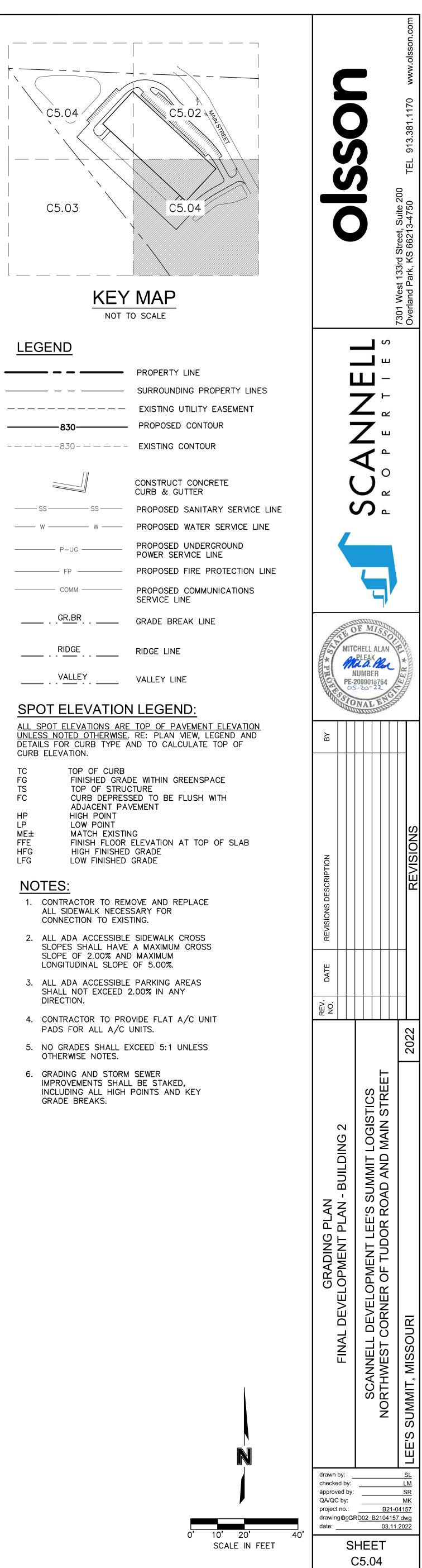




	PROPERTY LINE
	SURROUNDING PF
	EXISTING UTILITY
	PROPOSED CONT
	EXISTING CONTO
	CONSTRUCT CONC CURB & GUTTER
SS SS	PROPOSED SANIT
W W	PROPOSED WATER
P-UG	PROPOSED UNDER POWER SERVICE
FP	PROPOSED FIRE
СОММ ———	PROPOSED COMM SERVICE LINE
GR.BR	GRADE BREAK LII
	RIDGE LINE
VALLEY	

TC	TOP OF CURB
FG	FINISHED GRADE WITHIN GREENS
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH
	ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
ME±	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT TO
HFG	HIGH FINISHED GRADE
LFG	LOW FINISHED GRADE

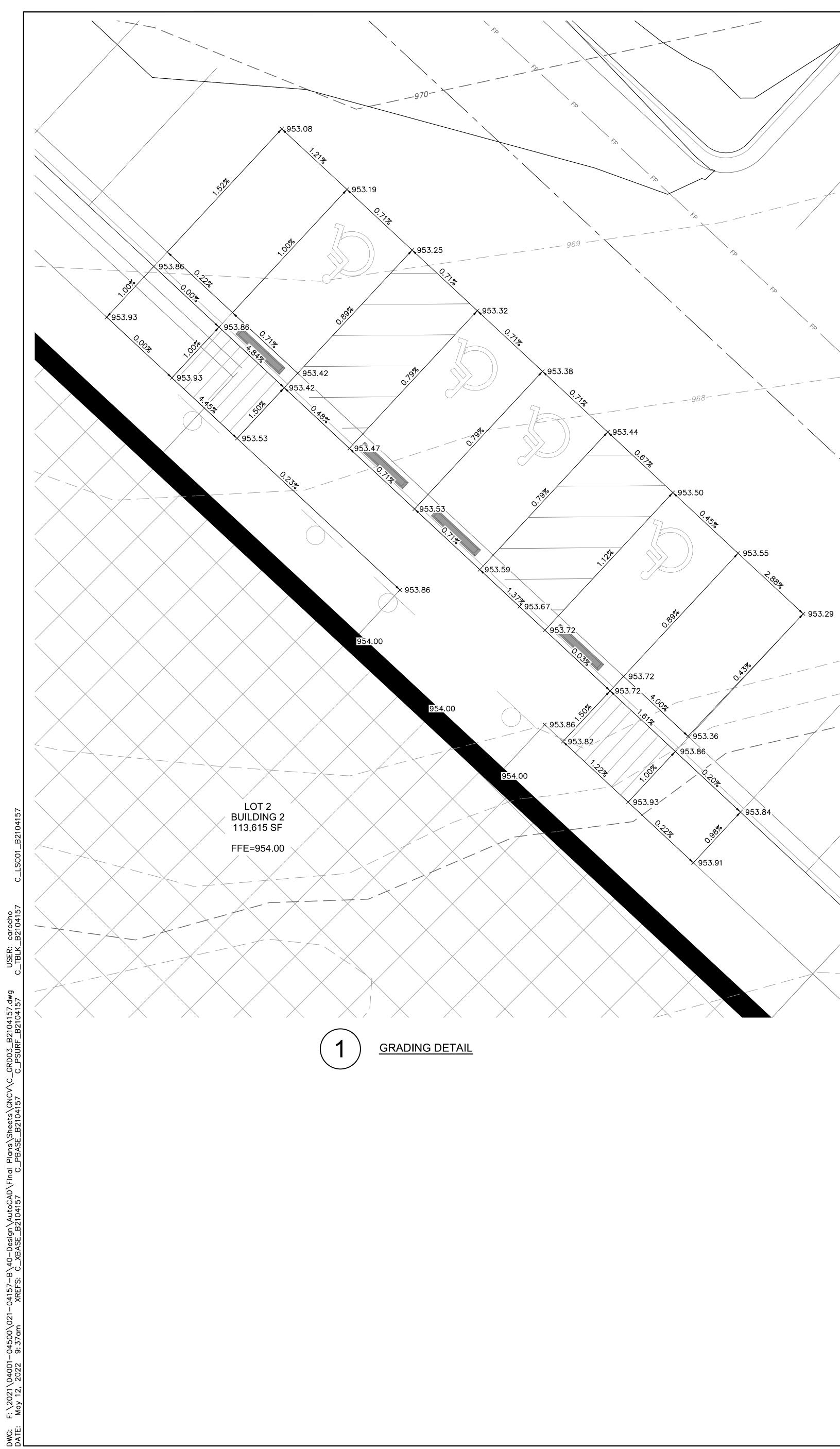


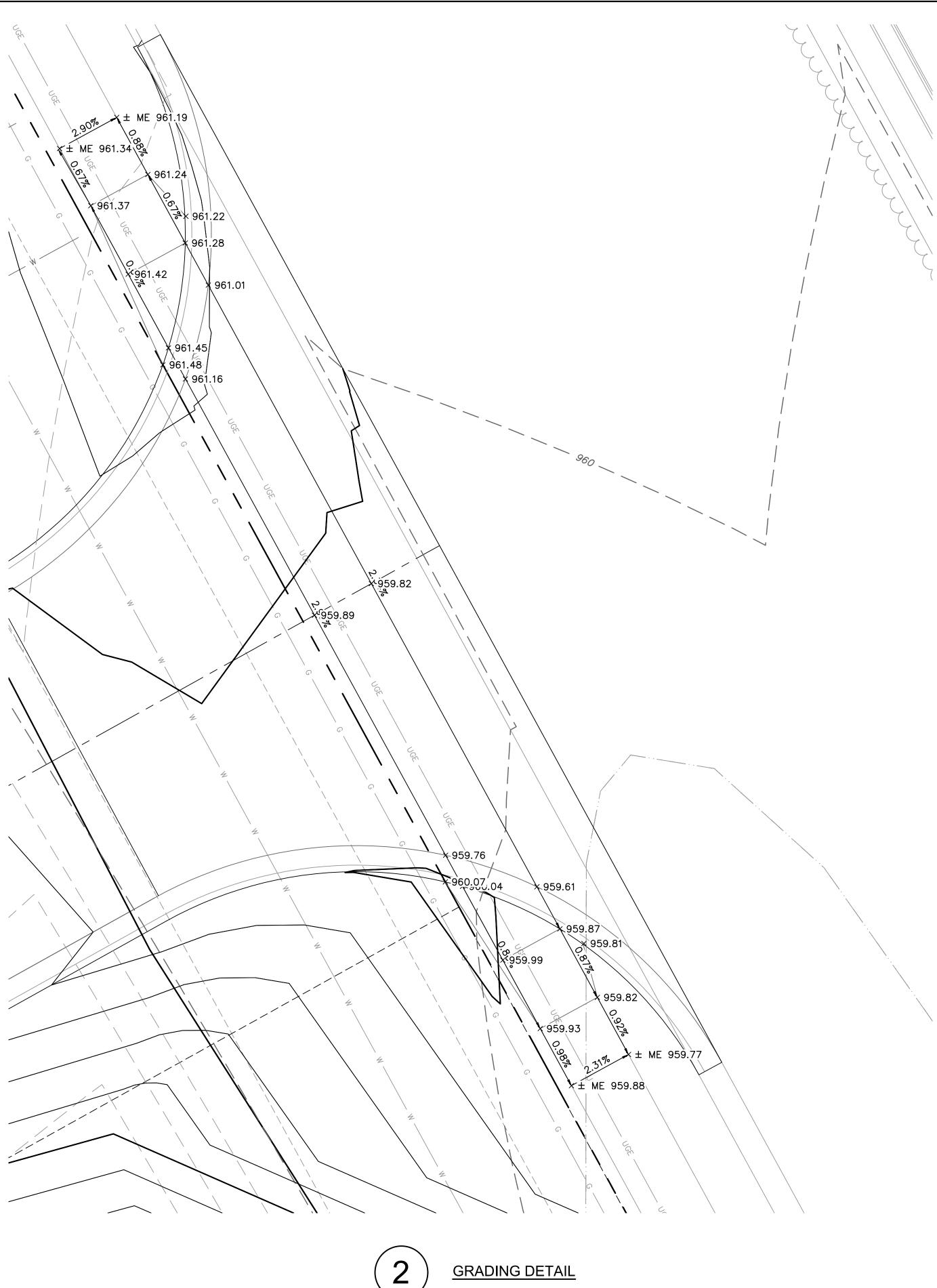


	PROPERTY LINE
	SURROUNDING PR
	EXISTING UTILITY
	PROPOSED CONT
- — — — -830- — — — -	EXISTING CONTOU
	CONSTRUCT CONC CURB & GUTTER
SS SS	PROPOSED SANIT
W W	PROPOSED WATER
P-UG	PROPOSED UNDER POWER SERVICE L
FP	PROPOSED FIRE F
COMM	PROPOSED COMMI SERVICE LINE
GR.BR	GRADE BREAK LIN
RIDGE	RIDGE LINE
VALLEY	VALLEY LINE

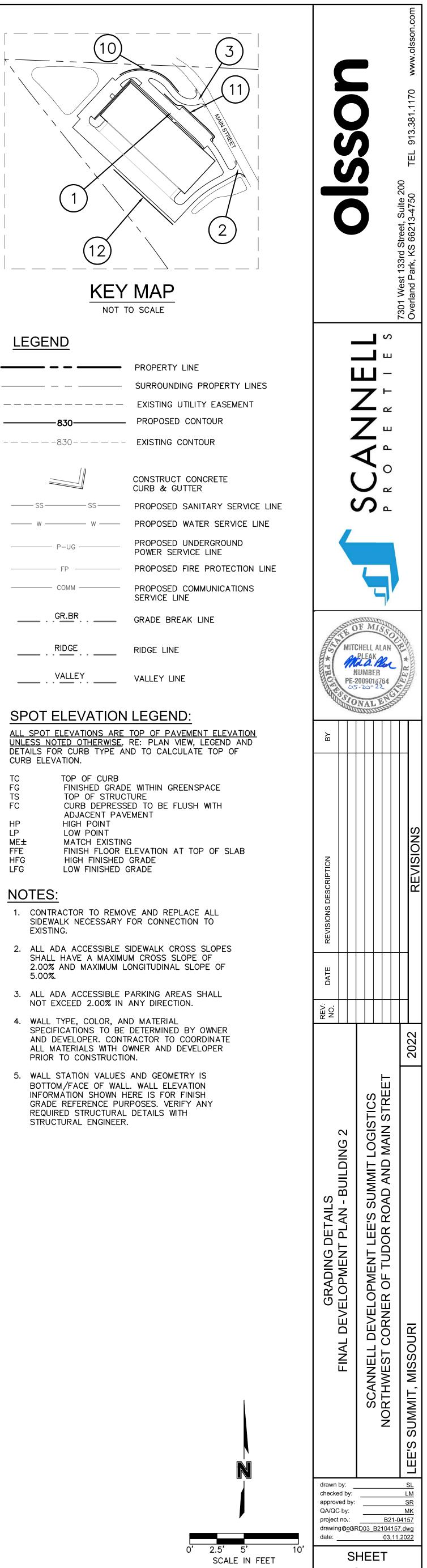
UNLESS NOTED OTHERWISE. RE: PLAN VIEW,
DETAILS FOR CURB TYPE AND TO CALCULAT
CURB ELEVATION.

ТС	TOP OF CURB
FG	FINISHED GRADE WITHIN GREENS
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH
	ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
ME±	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT TO
HFG	HIGH FINISHED GRADE
LFG	LOW FINISHED GRADE





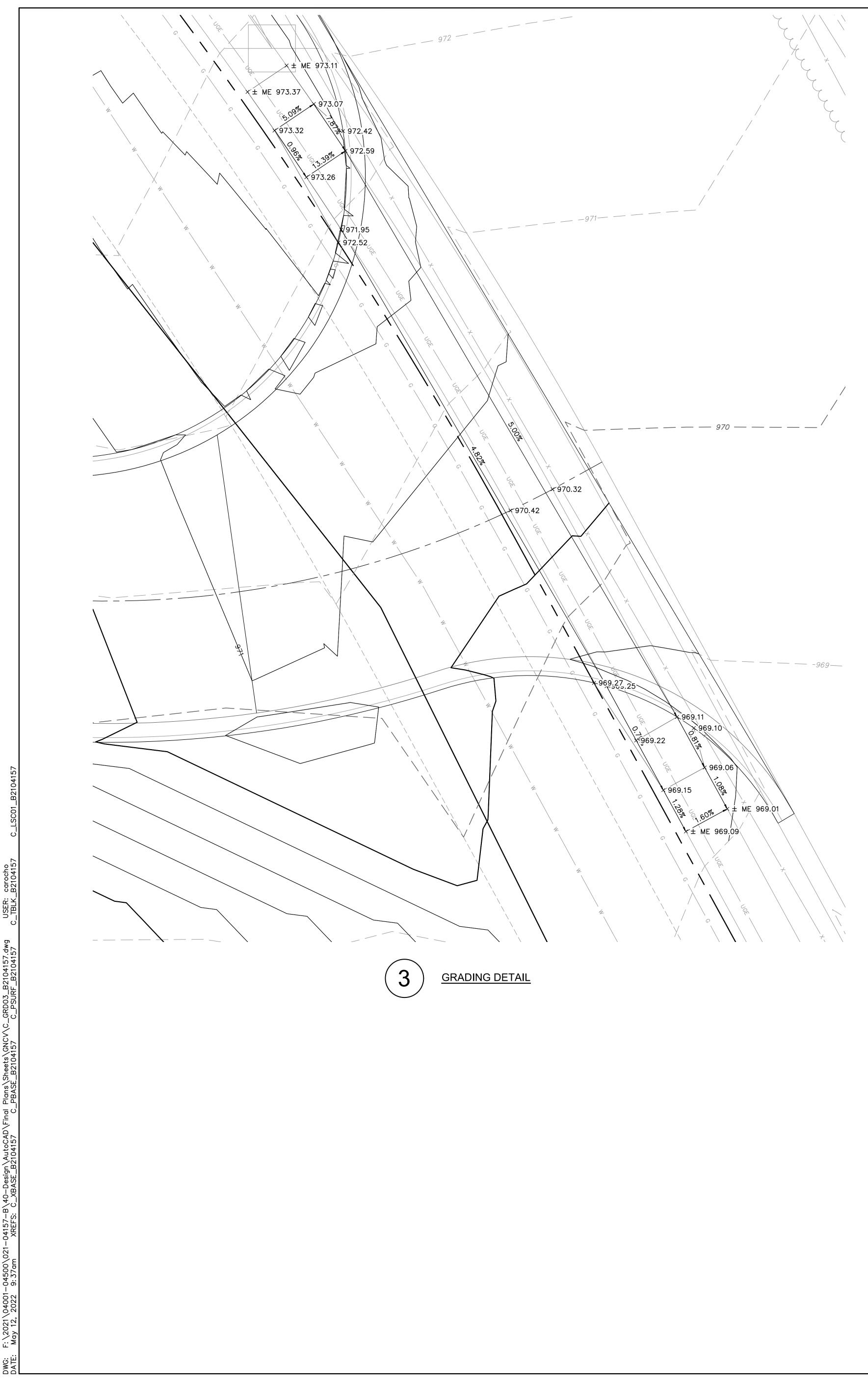
**GRADING DETAIL** 

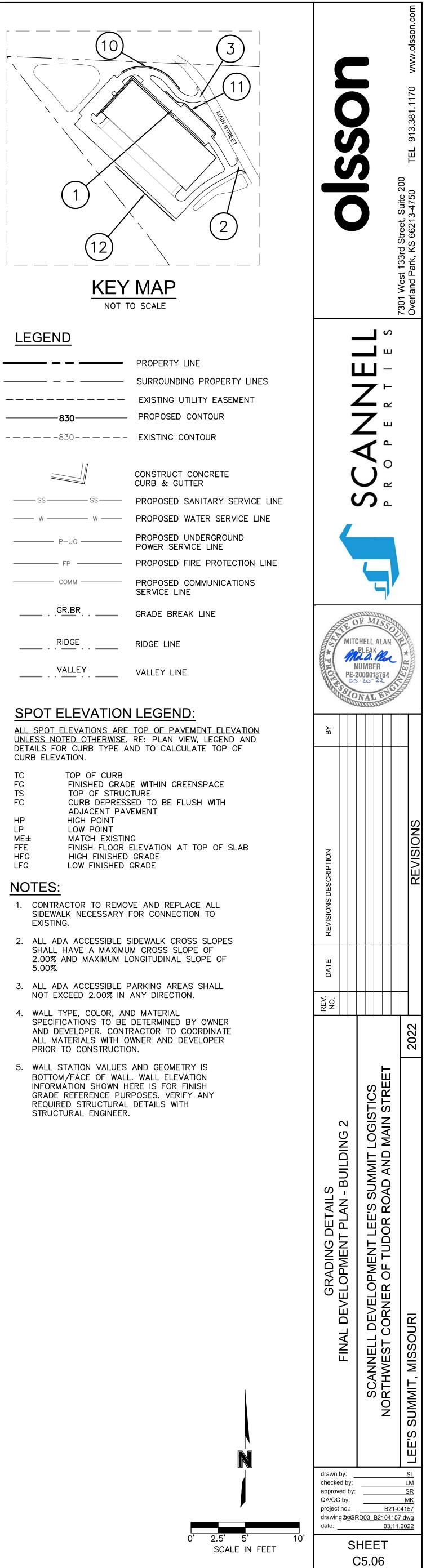


C5.05

	PROPERTY LINE
	SURROUNDING PF
	EXISTING UTILITY
	PROPOSED CONT
— — — — —830 — — — — —	EXISTING CONTO
	CONSTRUCT CONC CURB & GUTTER
SS SS	PROPOSED SANIT
W W	PROPOSED WATE
P-UG	PROPOSED UNDE POWER SERVICE
FP	PROPOSED FIRE
СОММ	PROPOSED COMM SERVICE LINE
GR.BR	GRADE BREAK LII
RIDGE	RIDGE LINE
VALLEY	

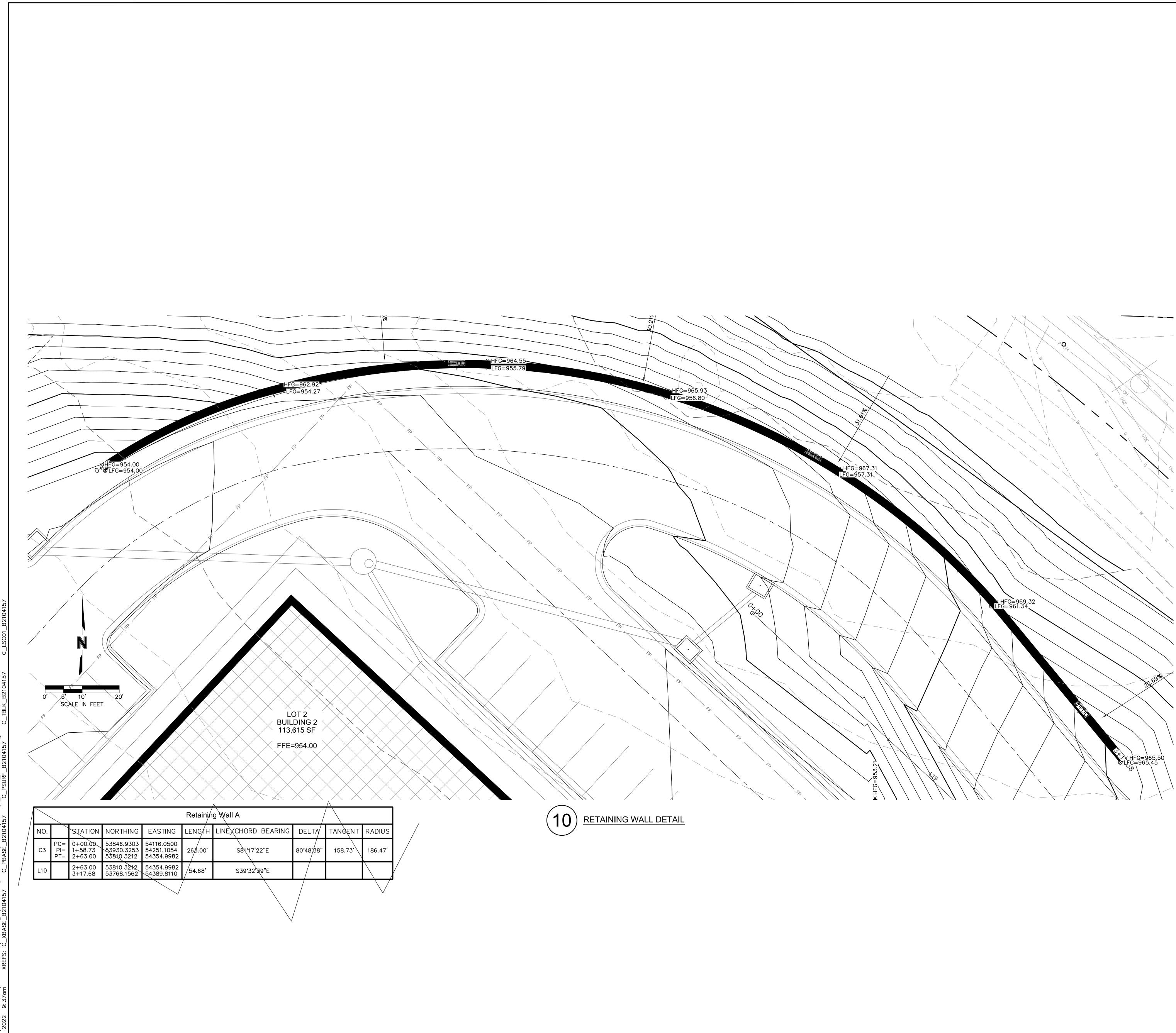
TC	TOP OF CURB
FG	FINISHED GRADE WITHIN GREENSF
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH
	ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
ME±	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT TOF
HFG	HIGH FINISHED GRADE
LEC	LOW FINISHED CRADE

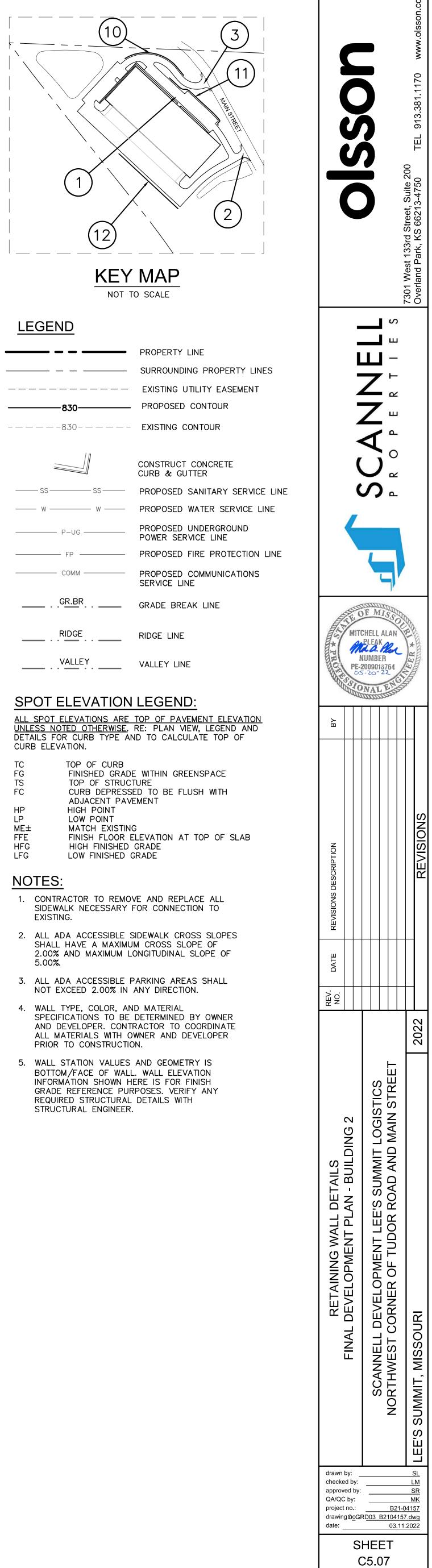




	PROPERTY LINE
	SURROUNDING P
	EXISTING UTILITY
	PROPOSED CON
	EXISTING CONTO
	CONSTRUCT CON CURB & GUTTER
SS SS	PROPOSED SANIT
——— W ———— W ———	PROPOSED WATE
P-UG	PROPOSED UNDE POWER SERVICE
FP	PROPOSED FIRE
СОММ	PROPOSED COMM SERVICE LINE
<u>GR.BR</u>	GRADE BREAK LI
RIDGE	RIDGE LINE
VALLEY	VALLEY LINE

то	
ТС	TOP OF CURB
FG	FINISHED GRADE WITHIN GREENS
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH
	ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
ME±	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT TO
HFG	HIGH FINISHED GRADE
LEC	LOW FINISHED CRADE

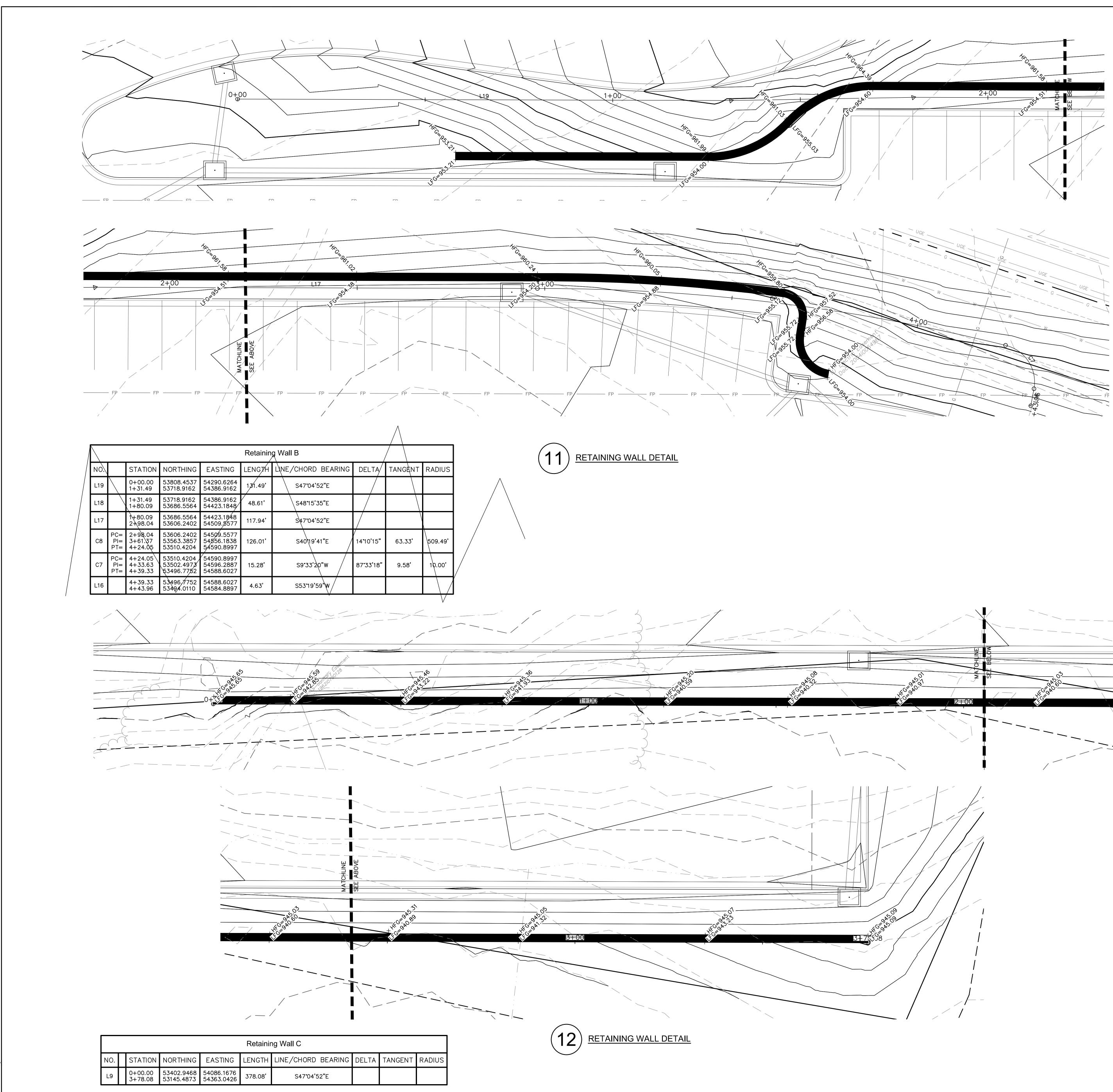


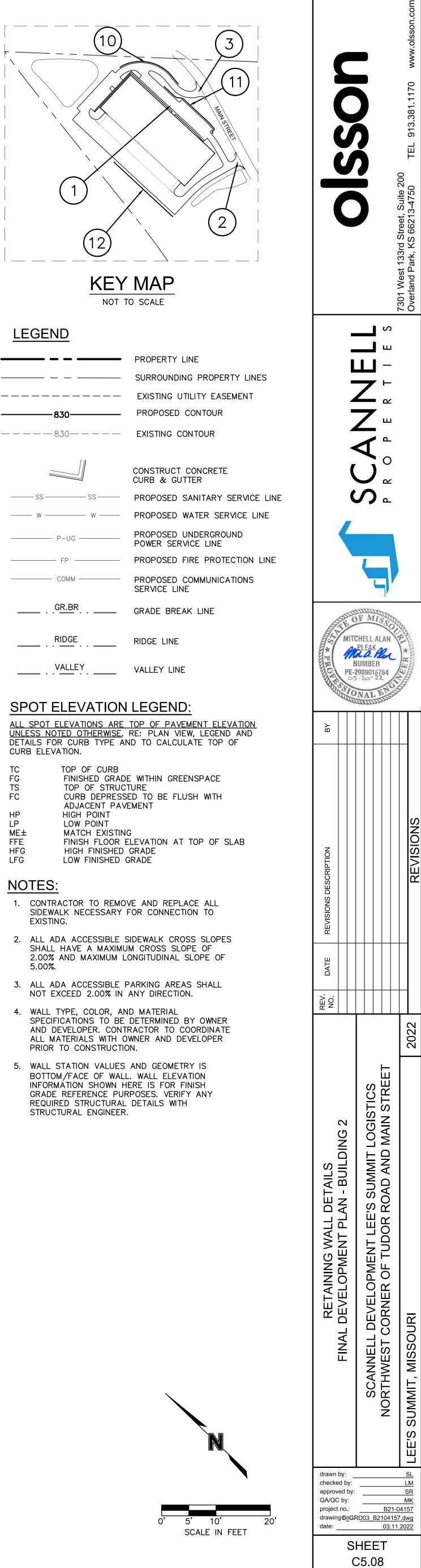


	PROPERTY LINE
	SURROUNDING PI
	EXISTING UTILITY
830	PROPOSED CONT
830	EXISTING CONTO
	CONSTRUCT CON CURB & GUTTER
SS SS	PROPOSED SANIT
W W	PROPOSED WATE
P-UG	PROPOSED UNDE POWER SERVICE
FP	PROPOSED FIRE
СОММ	PROPOSED COMM SERVICE LINE
GR.BR	GRADE BREAK LI
RIDGE	RIDGE LINE
VALLEY	VALLEY LINE



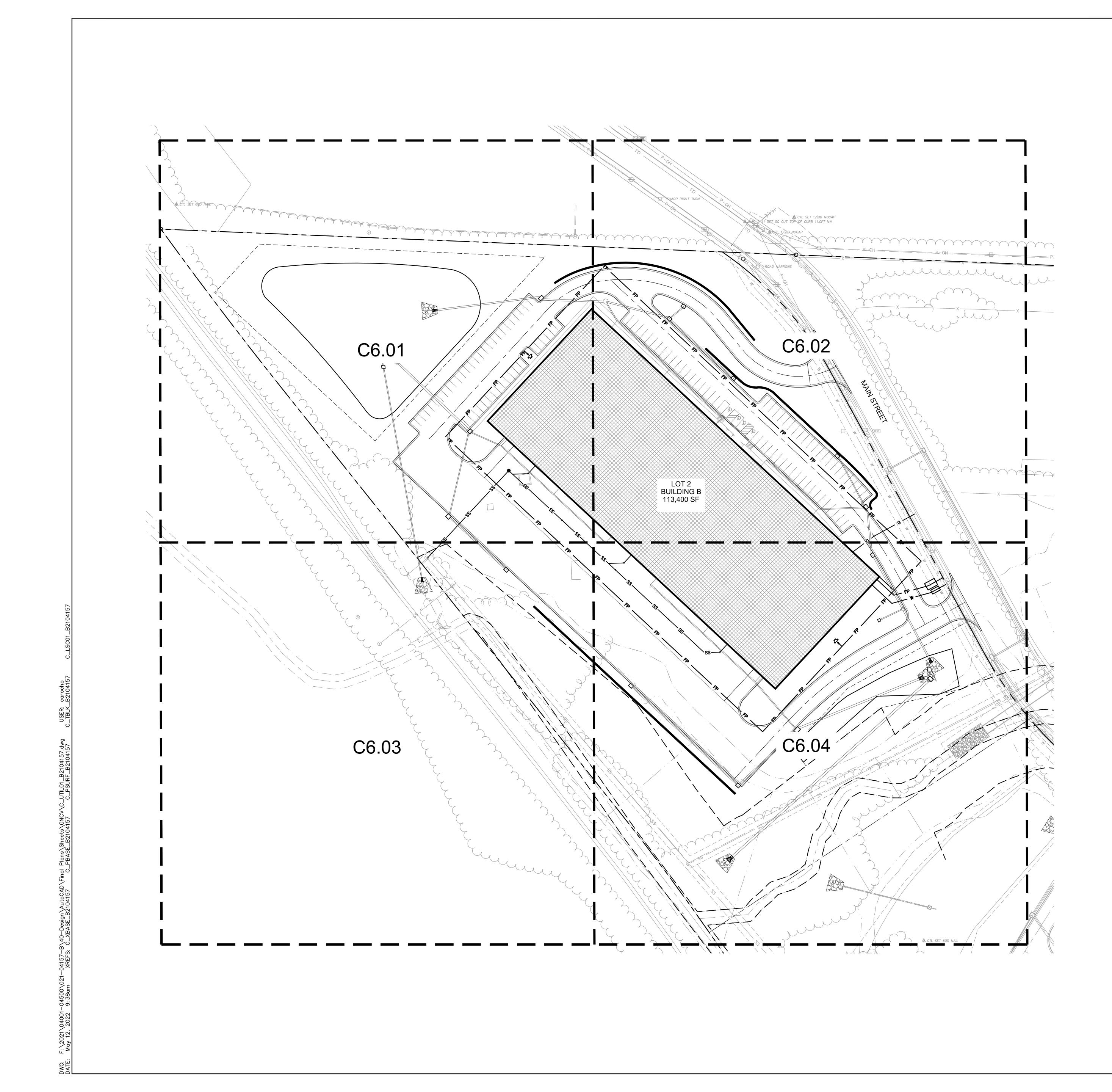
TC	TOP OF CURB
FG	FINISHED GRADE WITHIN GREENSP
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH
	ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
ME±	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT TOP
HFG	HIGH FINISHED GRADE





<b></b>	PROPERTY LINE
	SURROUNDING PR
	EXISTING UTILITY
830	PROPOSED CONT
830	EXISTING CONTOU
	CONSTRUCT CONC CURB & GUTTER
SS SS	PROPOSED SANIT
——— W ———— W ———	PROPOSED WATER
P-UG	PROPOSED UNDER POWER SERVICE I
FP	PROPOSED FIRE
COMM	PROPOSED COMM SERVICE LINE
	GRADE BREAK LIN
RIDGE	RIDGE LINE
ναιιεγ	

TC	TOP OF CURB
FG	FINISHED GRADE WITHIN GREENSF
TS	TOP OF STRUCTURE
FC	CURB DEPRESSED TO BE FLUSH
	ADJACENT PAVEMENT
HP	HIGH POINT
LP	LOW POINT
ME±	MATCH EXISTING
FFE	FINISH FLOOR ELEVATION AT TOF
HFG	HIGH FINISHED GRADE
	LOW FINISHED CRADE



# UTILITY PLAN LEGEND

		PROPERTY LINE
SS	- SS	EXISTING SANITARY
= $=$ $>$		EXISTING STORM
W		EXISTING WATER PIF
———— P-OH —		EXISTING OVERHEAD
———— P-UG -		EXISTING UNDERGRO
		STORM SEWER
SD	- SD	STORM HEADER PIP
——— P-UG -		UNDERGROUND POW
G	- G ——	NATURAL GAS PIPE
CATV		CABLE TELEVISION
— w —	- w —	WATER PIPE
ss	- SS ———	SANITARY SEWER S
•ss	- SS	SANITARY SEWER M C6.08-C6.12)

NOTE: 1. NO GAS WELLS ARE PRESENT ON THE PROPERTY BASED ON THE "ENVIRONMENTAL IMPACT STUDY OF ABANDONED OIL AND GAS WELLS IN LEE'S SUMMIT, MISSOURI", BY EDWARD ALTON MAY, JR. DATED 1995.

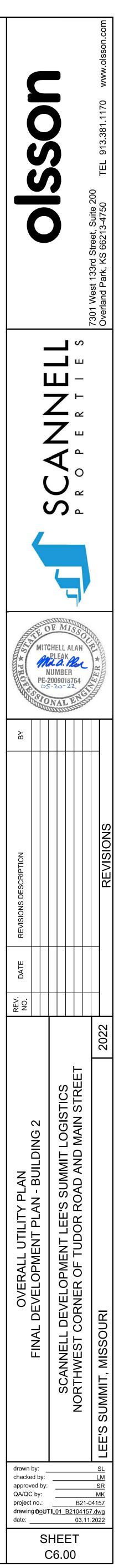
Y SEWER

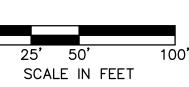
IPE EAD POWER LINE GROUND POWER LINE

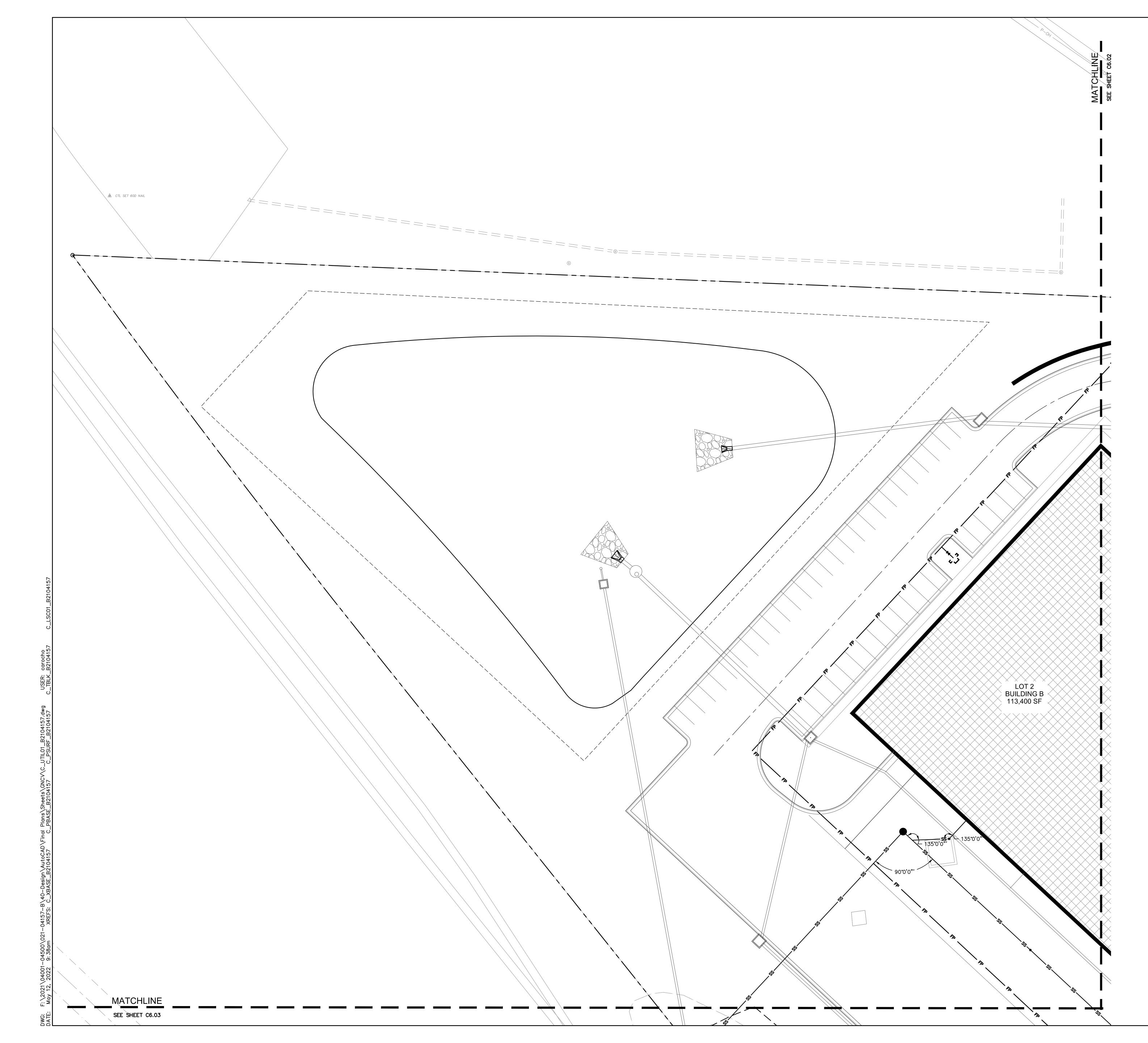
PIPE AND ROOF DRAINS OWER CONDUIT

CONDUIT

SERVICE LINE MAIN (PER SHEETS

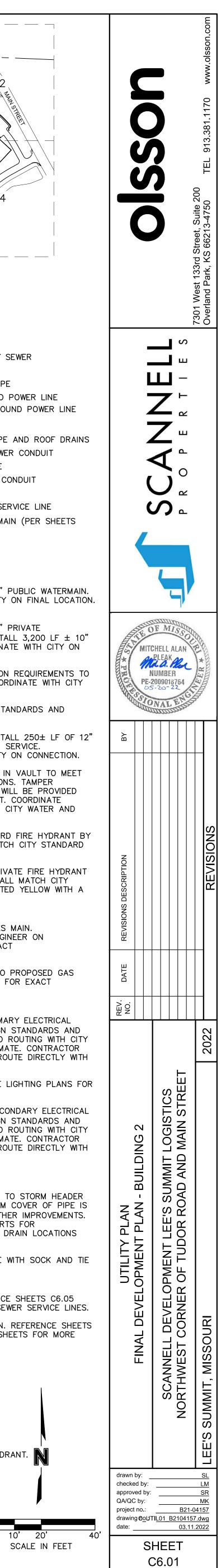






# C6.03 C6.04 KEY MAP NOT TO SCALE UTILITY PLAN LEGEND ----- PROPERTY LINE ------ W ------- EXISTING WATER PIPE ------ EXISTING OVERHEAD POWER LINE \_\_\_\_\_ P\_UG \_\_\_\_\_ STORM SEWER ------ P-UG ------ UNDERGROUND POWER CONDUIT ----- G ------ G ----- NATURAL GAS PIPE CABLE TELEVISION CONDUIT ----- W ------ WATER PIPE SANITARY SEWER MAIN (PER SHEETS C6.08-C6.12) **—** SS – **KEYNOTES** <u>WATER</u> W1 APPROXIMATE LOCATION OF PROPOSED 12" PUBLIC WATERMAIN. CONTRACTOR SHALL COORDINATE WITH CITY ON FINAL LOCATION. W2 APPROXIMATE LOCATION OF PROPOSED 10" PRIVATE PRESSURIZED FIRE PROTECTION LOOP. INSTALL 3,200 PRESSURIZED FIRE PROTECTION LOOP. INSTALL 3,200 LF $\pm$ 10" C900 DR 14. CONTRACTOR SHALL COORDINATE WITH CITY ON FINAL LOCATION. W3 DOMESTIC WATER SERVICE TAP. CONNECTION REQUIREMENTS TO BE DETERMINED. CONTRACTOR SHALL COORDINATE WITH CITY ON CONNECTION. W4 INSTALL WATER METER PER CITY WATER STANDARDS AND SPECIFICATIONS. W5 CONNECT TO MAIN 12"x 12" TEE, AND INSTALL 250± LF OF 12" C900 DR 14 FOR FIRE PROTECTION WATER SERVICE. CONTRACTOR SHALL COORDINATE WITH CITY ON CONNECTION. W6 INSTALL DOUBLE CHECK VALVE ASSEMBLY IN VAULT TO MEET CITY WATER STANDARDS AND SPECIFICATIONS. TAMPER SWITCHES AND THEIR ASSOCIATED WIRING WILL BE PROVIDED FOR THE SHUT-OFF VALUES IN THE VAULT. COORDINATE INSTALL AND BACKFLOW PREVENTION WITH CITY WATER AND MEP PLANS. W7 APPROXIMATE LOCATION OF PROPOSED YARD FIRE HYDRANT BY CONTRACTOR. YARD HYDRANTS SHALL MATCH CITY STANDARD AND DETAILS. SHALL BE PAINTED RED. W8 APPROXIMATE LOCATION OF PROPOSED PRIVATE FIRE HYDRANT BY CONTRACTOR. PRIVATE HYDRANTS SHALL MATCH CITY STANDARD AND DETAILS. SHALL BE PAINTED YELLOW WITH A SILVER TOP. GAS G1 APPROXIMATE LOCATION OF PROPOSED GAS MAIN. CONTRACTOR SHALL COORDINATE WITH ENGINEER ON FINAL LOCATION OF GAS MAIN AND CONTACT ENGINEER WITH ANY CHANGES. G1 INSTALL $\pm 230$ LF OF NEW GAS SERVICE TO PROPOSED GAS MAIN. COORDINATE WITH UTILITY COMPANY FOR EXACT LOCATION, ROUTING, AND CONNECTION. **ELECTRIC** E1 INSTALL APPROXIMATELY 100± LF OF PRIMARY ELECTRICAL SERVICE PER EVERGY/LEE'S SUMMIT DESIGN STANDARDS AND SPECIFICATIONS. VERIFY CONDUIT SIZE AND ROUTING WITH CITY AND EVERGY. THE ALIGNMENT IS APPROXIMATE. CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE ROUTE DIRECTLY WITH CITY AND EVERGY. E2 PROPOSED SITE LIGHTING. REFERENCE SITE LIGHTING PLANS FOR DETAILS. E3 INSTALL APPROXIMATELY 1000± LF OF SECONDARY ELECTRICAL SERVICE PER EVERGY/LEE'S SUMMIT DESIGN STANDARDS AND

- SPECIFICATIONS. VERIFY CONDUIT SIZE AND ROUTING WITH CITY
- AND EVERGY. THE ALIGNMENT IS APPROXIMATE. CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE ROUTE DIRECTLY WITH CITY AND EVERGY. STORM ROOF DRAINS
- RD1 INSTALL 12" HDPE FROM THE ROOF DRAIN TO STORM HEADER PIPE WITH A 1.0% MINIMUM SLOPE. MINIMUM COVER OF PIPE IS 2.5' AND SHALL COORDINATE WITH ALL OTHER IMPROVEMENTS. INCLUDE BENDS, FITTINGS, AND OTHER PARTS FOR INSTALLATION. SEE MEP PLANS FOR ROOF DRAIN LOCATIONS AND DETAILS.
- RD2 INSTALL BACK OF CURB PERFORATED PIPE WITH SOCK AND TIE INTO CLOSEST PRIVATE STORM SEWER. SANITARY SEWER SERVICE
- SANITARY SEWER SERVICE LINES. REFERENCE SHEETS C6.05 -C6.07 FOR INFORMATION ON SANITARY SEWER SERVICE  $\mathcal I$  – C6.07 FOR INFORMATION ON SANITARY SEWER SERVICE LINES.
- SS2 PRIVATE SANITARY SEWER MAIN EXTENSION. REFERENCE SHEETS C6.08 -C6.12 PRIVATE SANITARY SEWER SHEETS FOR MORE INFORMATION.
- EXISTING UTILITIES
- X1 EXISTING SANITARY SEWER MAIN
- X2 EXISTING STORM SEWER X3 EXISTING WATER MAIN
- NOTE:
- FDC SHALL BE LOCATED WITH 100' OF FIRE HYDRANT.





C6.01 C6.03	C6.02
KE	Y MAP
NO	T TO SCALE
UTILITY PLAN LE	EGEND
	EXISTING STORM EXISTING WATER PIPE EXISTING OVERHEAD
SD SD P-UG	- STORM HEADER PIPE
	- CABLE TELEVISION CO
— w —	- WAIER PIPE

•—— ss—

10' 20' SCALE IN FEET

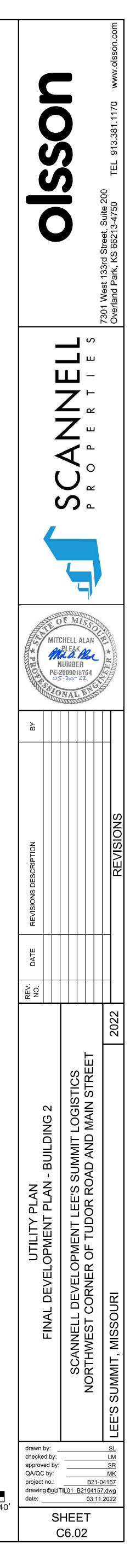


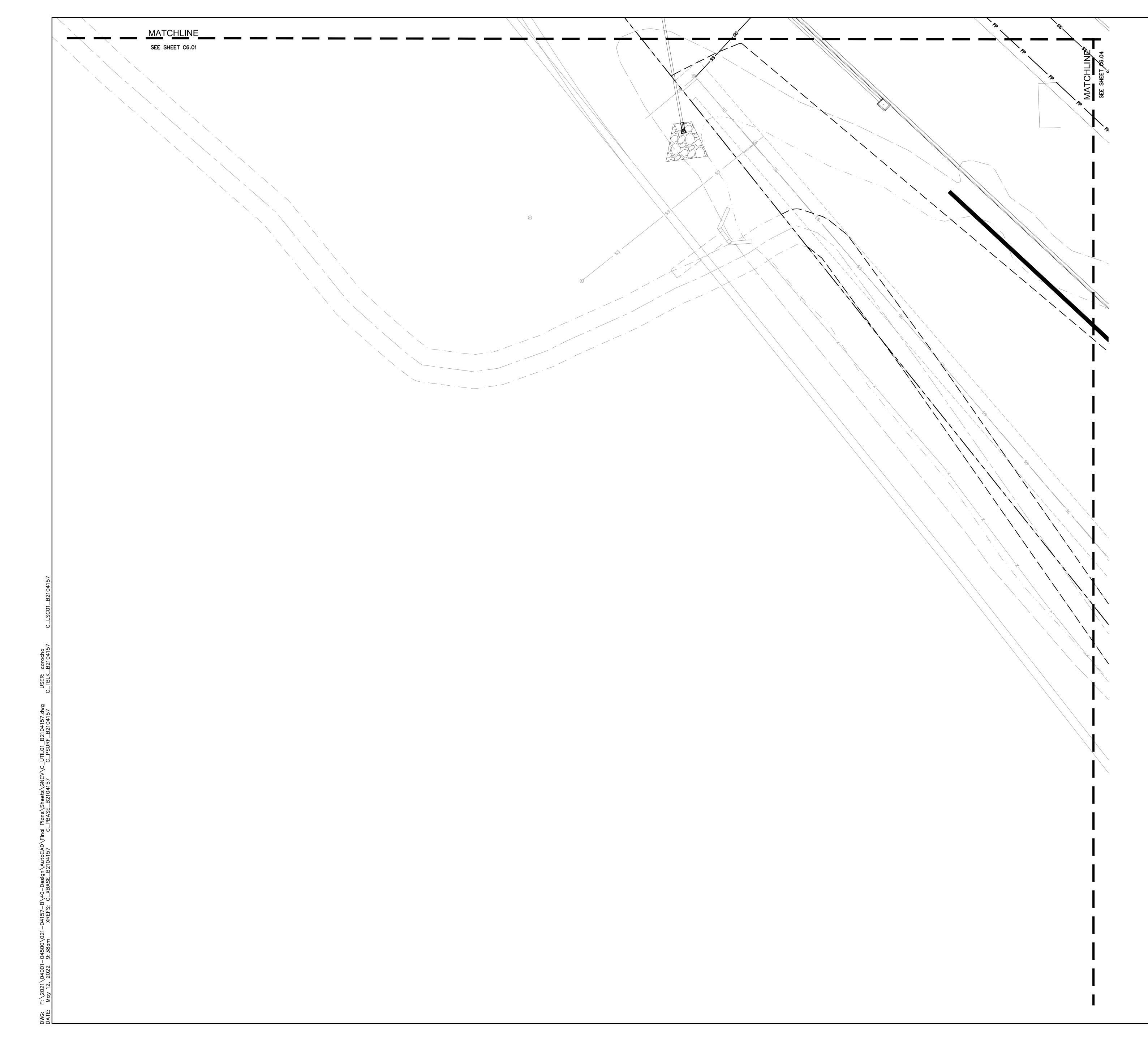
Y SEWER

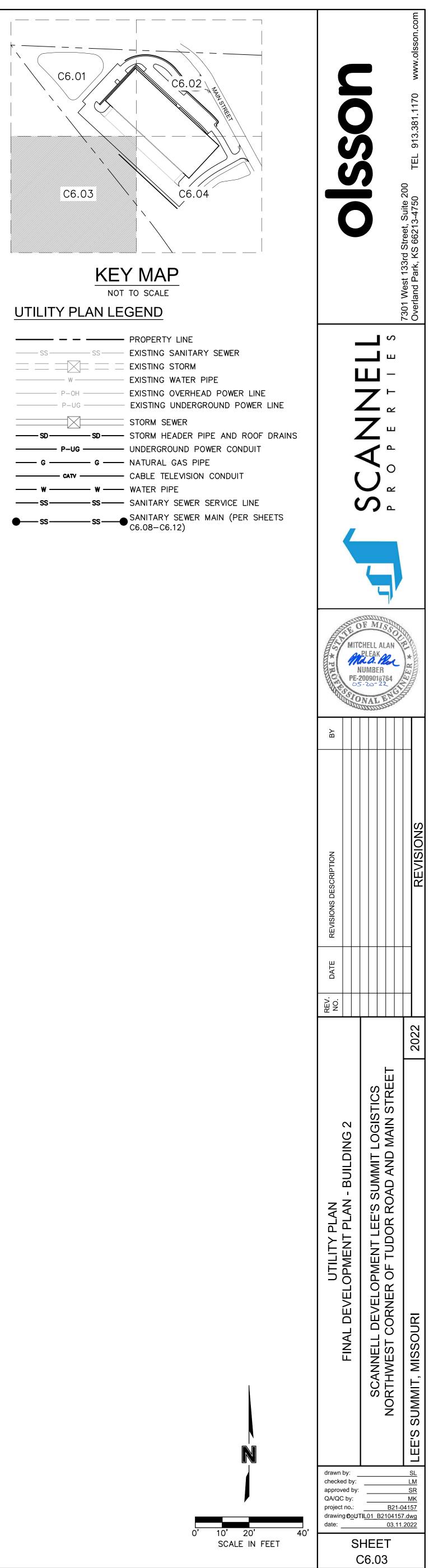
PIPE AD POWER LINE ROUND POWER LINE

PE AND ROOF DRAINS WER CONDUIT

CONDUIT



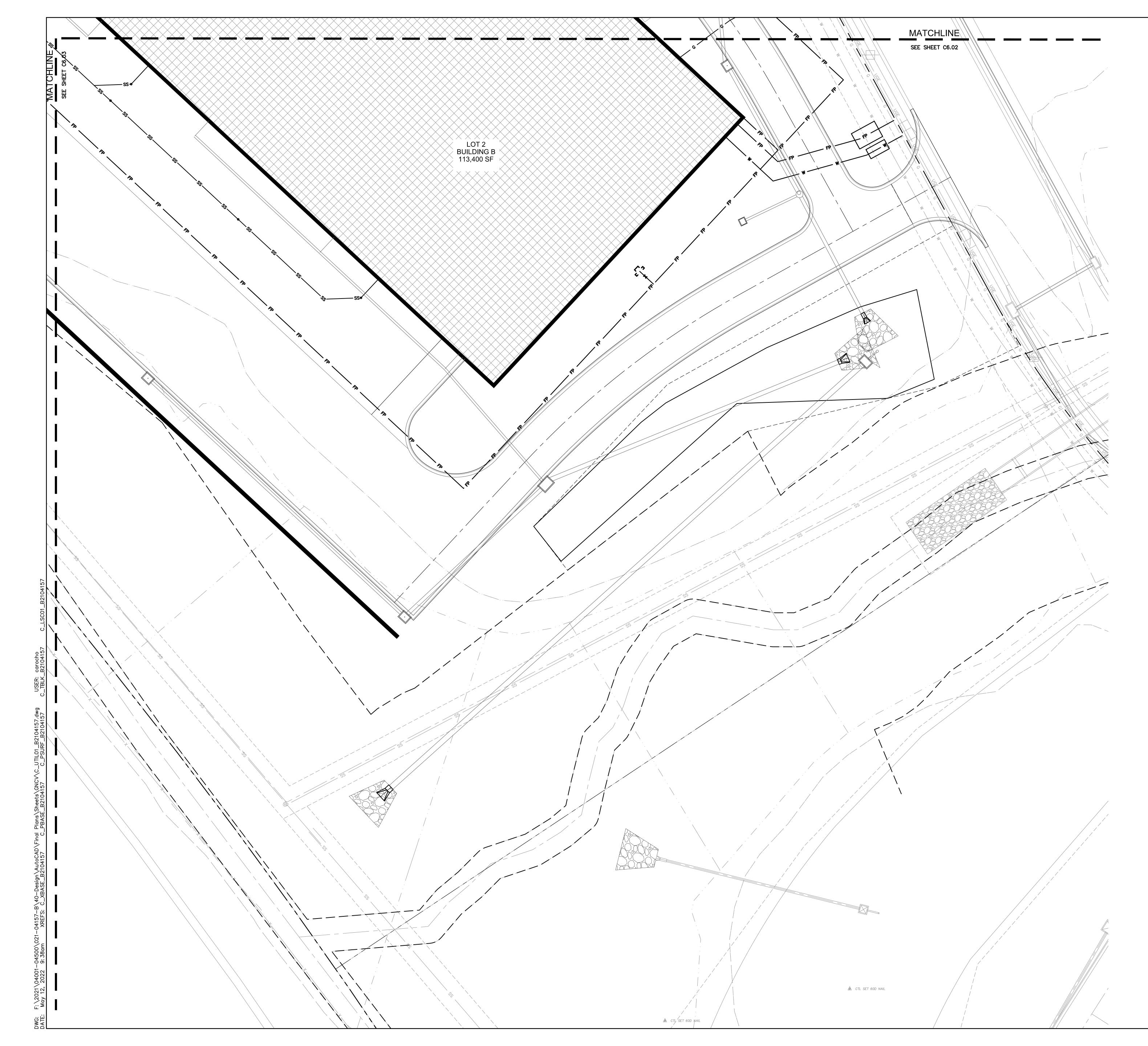


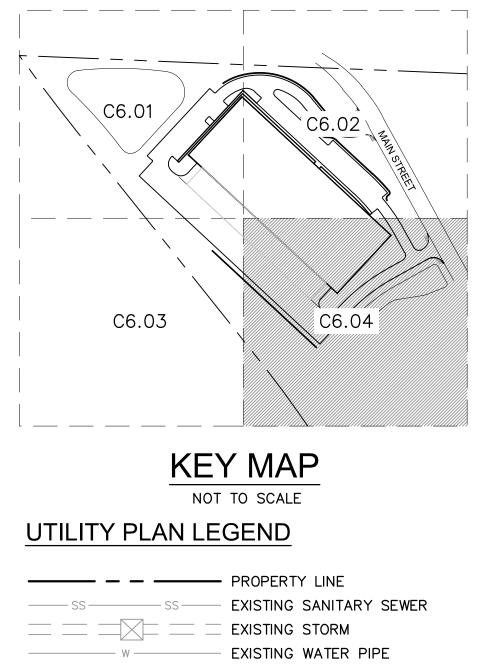


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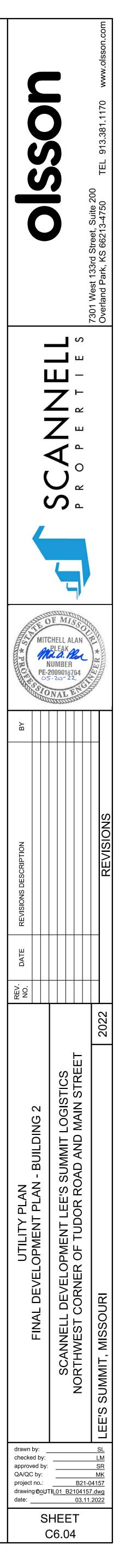
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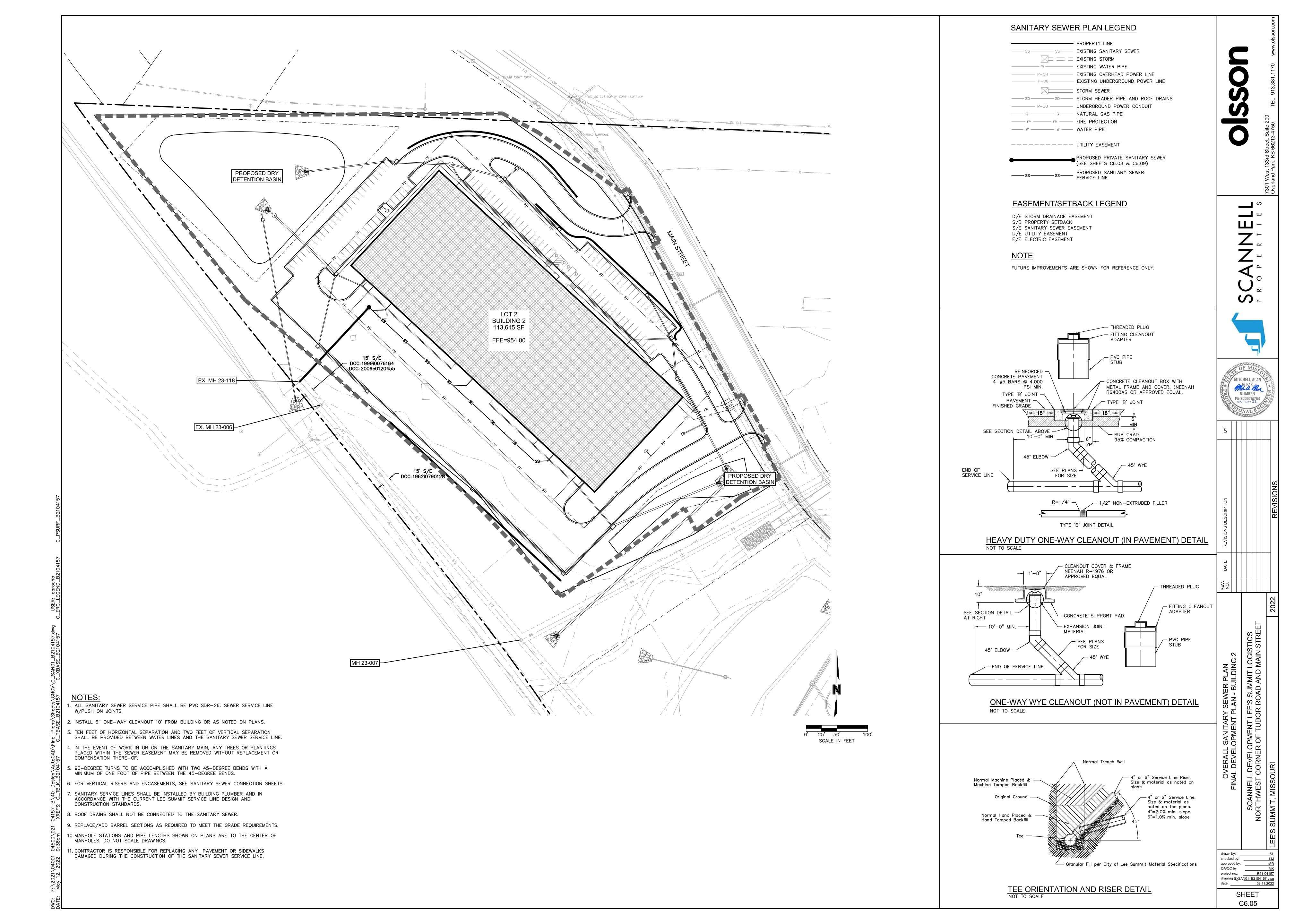




P-OH ----- EXISTING OVERHEAD POWER LINE P-UG ----- EXISTING UNDERGROUND POWER LINE \_\_\_\_\_ STORM SEWER ----- G ------ G ----- NATURAL GAS PIPE CABLE TELEVISION CONDUIT ----- W ------ WATER PIPE SANITARY SEWER MAIN (PER SHEETS C6.08-C6.12)

10' 20' SCALE IN FEET





## **GENERAL NOTES**

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE PLANS IN THEIR POSSESSION ARE THE MOST CURRENT VERSION ISSUED, ARE FULLY COORDINATED WITH ALL SUBCONTRACTORS. AND PRESENT ON SITE AT ALL TIMES. CURRENT PLANS PREPARED BY OLSSON MAY BE OBTAINED AT THE DIRECTION OF OLSSON'S CLIENT. DIRECT REQUESTS TO OLSSON MAY REQUIRE ADDITIONAL AUTHORIZATIONS, AGREEMENTS, AND/OR FEES. PLEASE CONTACT THE ENGINEER FOR INFORMATION.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS UNLESS WRITTEN APPROVAL FROM ENGINEER, OWNER, AND DEVELOPER.
- 3. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
- 4. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES AND ITEMS OF WORK.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK SHOWN IN THE PLANS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES, AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
- 7. THE CONTRACTOR SHALL NOT ENGAGE IN ACTIVITIES THAT MAY ENCROACH ON WATERS OF THE U.S., INCLUDING WETLANDS, UNTIL ANY NECESSARY PERMITS MAY BE OBTAINED. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL CONDITIONS DESCRIBED IN THE PERMIT.
- 8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, THE SAFETY OF ALL PERSONS INCLUDING VISITORS AND THE GENERAL PUBLIC, AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY THROUGHOUT THE PROJECT AND NOT BE LIMITED BY WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.
- 9. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL UTILITY COMPANIES AND OBTAIN ANY RELEVANT INFORMATION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. ANY BOUNDARY CORNER AND/OR SECTION CORNER DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF MISSOURI, AT THE CONTRACTOR'S EXPENSE.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ADJACENT PROPERTIES AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES.
- 12. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER TO PERFORM A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.

## REFERENCES

- 1. UNLESS EXPLICITLY DESCRIBED OTHERWISE WITHIN THESE PLANS THE FOLLOWING SHALL APPLY; A. ALL CONSTRUCTION, INCLUDING THOSE LISTED BELOW, SHALL CONFORM TO THE LATEST CODES AND ORDINANCES OF LEE'S
- SUMMIT, MISSOURI. B. ALL CONSTRUCTION IN MODOT RIGHT-OF-WAY SHALL CONFORM TO
- THE LATEST SPECIFICATIONS ADOPTED BY U.S. DEPARTMENT OF TRANSPORTATION AND MODOT. C. ALL TRAFFIC CONTROL SIGNAGE SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES
- (MUTCD). D. ALL UTILITY EXTENSIONS AND CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE UTILITY COMPANIES.
- E. ALL EXTERIOR PAVEMENT (PCC, ASPHALT, ETC.) SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS OF LEE'S SUMMIT. MISSOURI
- 4. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE DELIVERY MANAGER AND COORDINATING ANY MAILBOXES THAT MAY BE DISTURBED. FAILURE TO DO SO MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT.

## EXISTING CONDITIONS

- 1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS OF THE PROJECT AREA.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING THEIR OWN INVESTIGATIONS AND MAKING THEIR OWN ASSUMPTIONS REGARDING SITE SURFACE AND SUBSURFACE CONDITIONS. THIS INCLUDES THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. CONTACT THE ENGINEER REGARDING ANY DISCREPANCIES THAT MAY AFFECT THE ABILITY TO CONSTRUCT FROM THESE PLANS AS DESIGNED.
- 3. EXISTING CONDITIONS WERE DETERMINED THROUGH A VARIETY OF METHODS THAT MAY INCLUDE SURVEY, AERIAL IMAGERY, AVAILABLE RECORDS, GIS DATA, ETC. SUBSURFACE CONDITIONS ARE APPROXIMATE AND MAY NOT INCLUDE ALL UTILITIES AND OTHER SITE IMPROVEMENTS PRESENT ON SITE. THE CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS WHEN CONFLICTS AND DISCREPANCIES ARE FOUND.

CONSTRUCTION

SHOP DRAWINGS

VERIFIED:

THERETO:

CONTRACT DOCUMENTS.

LIMITED TO, THE FOLLOWING:

EQUAL" ALTERNATIVE.

PROJECT.

COMPLETED THE ABOVE TASKS.

LOCAL CODES AND ORDINANCES.

ADJUSTMENTS ARE INDICATED IN THE PLANS.

- 1. THE CONTRACTOR SHALL INSTALL TRAFFIC CONTROL WHILE WORKING IN THE PUBLIC RIGHT-OF-WAY AS SHOWN IN THESE PLANS. IF PLANS ARE NOT PROVIDED, CONTRACTOR SHALL COORDINATE AND PROVIDE
- CONTROLS TO THE SATISFACTION OF THE RIGHT-OF-WAY OWNER.
- DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE

3. THE CONTRACTOR SHALL DISPOSE ALL WASTE MATERIAL RESULTING

4. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE

TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED. NOT ALL

5. THE CONTRACTOR SHALL STREET SWEEP OR OTHERWISE CLEAN ALL

ACCESS ROUTES TO THE SITE AT CONCLUSION OF THE PROJECT.

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING A MINIMUM OF 7 DAYS

SHOP DRAWINGS OR SAMPLES CONFORMANCE WITH THE DESIGN FOR

THIS PROJECT AS DESCRIBED IN THE PLANS. THE CONTRACTOR SHALL

BE RESPONSIBLE FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS. THE

ENGINEER'S REVIEW SHALL NOT EXTEND TO MEANS OR METHODS OF

VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS

AT THE TIME OF SUBMISSION, AND OBTAINED ENGINEER'S WRITTEN

DRAWING OR SAMPLE, CONTRACTOR SHALL HAVE REVIEWED AND

A. ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED

B. ALL MATERIALS WITH RESPECT TO INTENDED USE, FABRICATION,

C. ALL INFORMATION RELATIVE TO MEANS, METHODS, TECHNIQUES,

PERTAINING TO THE PERFORMANCE OF THE WORK;

PRECAUTIONS AND PROGRAMS INCIDENT THERETO;

CATALOG NUMBERS AND SIMILAR INFORMATION WITH RESPECT

SHIPPING, HANDLING, STORAGE, ASSEMBLY AND INSTALLATION

SEQUENCES AND PROCEDURES OF CONSTRUCTION AND SAFETY

SHOP DRAWING OR SAMPLE WITH OTHER SHOP DRAWINGS AND

D. CONTRACTOR SHALL ALSO HAVE REVIEWED AND COORDINATED EACH

SAMPLES. AND WITH THE REQUIREMENTS OF THE WORK AND THE

E. ALL SUBMITTED SHOP DRAWINGS SHALL BEAR A STAMP OR SPECIFIC WRITTEN INDICATION AND SIGNATURE THAT CONTRACTOR HAS FULLY

2. SHOP DRAWINGS AS DESCRIBED ABOVE ARE REQUIRED FOR, BUT NOT

B. ANY ITEMS IN THESE PLANS THAT ALLOW FOR AN "APPROVED

A. ALL SANITARY SEWER STRUCTURES TO BE INSTALLED WITH THIS

CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY

PRIOR TO THE REQUESTED DATE OF APPROVAL. ENGINEER SHALL REVIEW

UNLESS CONTRACTOR HAS NOTIFIED ENGINEER OF EACH SUCH VARIATION

APPROVAL OF EACH SUCH VARIATION. PRIOR TO SUBMITTING EACH SHOP

PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS,

- 2. THE CONTRACTOR SHALL PROTECT ALL TREES OVER 3" CALIPER FROM OWNER, UNLESS SHOWN OTHERWISE ON THESE PLANS.

- 2. ALL PIPE LENGTHS ARE CALCULATED LINEARLY FROM CENTER OF 4. ALL STRUCTURE DIMENSIONS ARE TO INSIDE FACE OF STRUCTURE.

FROM THE PROJECT OFF-SITE AND IN STRICT CONFORMANCE WITH ALL

## PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH CITY OF LEE'S SUMMIT, MISSOURI.

SANITARY SEWER GENERAL NOTES

STRUCTURE TO CENTER OF STRUCTURE.

CONSTRUCTION OF SANITARY SEWER.

THROUGH THE MANHOLE.

SEALS.

INFORMATION.

SS4.00.

SEWER.

NOTED.

5.

8.

INSTALLATION.

COORDINATES ARE PROVIDED AT THE CENTER OF STRUCTURE.

ORDINANCES OR AS AN AID WHEN ORIENTING THE LID DURING

POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY

MANHOLE INVERT CHANNELS SHALL BE SMOOTH, CIRCULAR, AND

9. PIPE PENETRATIONS SHALL USE GASKETS TO ENSURE WATERTIGHT

SURFACES OR AS DIRECTED BY LOCAL CODES AND ORDINANCES.

FAILS ON ANY SECTION OF PIPE, THAT SECTION SHALL BE

16. SANITARY LATERALS ARE DESIGNED @ 2.00% SLOPE. IF RISER IS

10. TRACING TAPE SHALL BE INSTALLED ALONG ALL NON-METALLIC

ALL TESTING EQUIPMENT. TESTING SHALL INCLUDE

B. AIR PRESSURE TEST OF ALL GRAVITY SEWERS.

UNCOVERED AND REPLACED.

C. VACUUM TEST OF ALL MANHOLES.

SHALL BE 2.0' TO AVOID PIPE JOINT.

CURRENT APWA SPECIFICATIONS.

ADDITIONAL COORDINATES PROVIDED ARE PER LOCAL CODES AND

6. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF

7. SANITARY SEWER TRENCHES SHALL BE CONSTRUCTED SUCH THAT UNDISTURBED EXISTING SOIL OR FILL COMPACTED TO 95% PROCTOR

DENSITY IS AT A DEPTH THAT IS 18" ABOVE TOP OF PROPOSED PIPE.

CONFORMING TO 1/2 THE ADJACENT PIPE SECTION (INVERT TO CENTER). CHANGES IN DIRECTION OF FLOW SHALL BE MADE WITH A SMOOTH CURVE AND MAINTAIN SHAPE THROUGHOUT. CHANGES IN GRADE OF ADJACENT PIPES SHALL BE TRANSITIONED SMOOTHLY AND EVENLY

11. SEWER LINE INSPECTIONS AND TESTING MUST BE SCHEDULED A MINIMUM

OF TWO FULL BUSINESS DAYS IN ADVANCE. CONTRACTOR SHALL FURNISH A. MANDREL TEST OF ALL GRAVITY SEWERS. IF THE MANDREL TEST

12. REFER TO SHEET SS3.02 FOR SANITARY DESIGN & SEWER LATERAL

13. ALL SERVICE LINE CONNECTIONS SHALL BE MADE WITH AN 8"X8" PVC WYE, 8"PVC 45" BEND, AND THE APPROPRIATE LENGTH OF 8" PVC

LATERAL (UNLESS OTHERWISE SHOWN) AND CAP. SEE DETAIL SHEET

14. MSFE- INDICATES LOWEST FLOOR SERVICEABLE BY PROPOSED SANITARY

15. MAXIMUM DEVIATION FROM LATERAL STATION LOCATIONS AS CALLED OUT

INDICATED, IT IS TO BE AT THE SANITARY MAIN, UNLESS OTHERWISE

17. REFER TO CURRENT CITY SPECIFICATIONS FOR MINIMUM PIPE SLOPES.

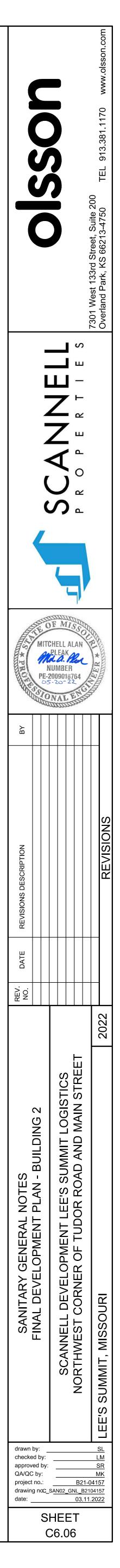
18. CONTRACTOR MAY BE REQUIRED TO RECONSTRUCT PIPE AND STRUCTURE IF MINIMUM INVERT DROP OR PIPE SLOPE REQUIREMENTS ARE NOT MET.

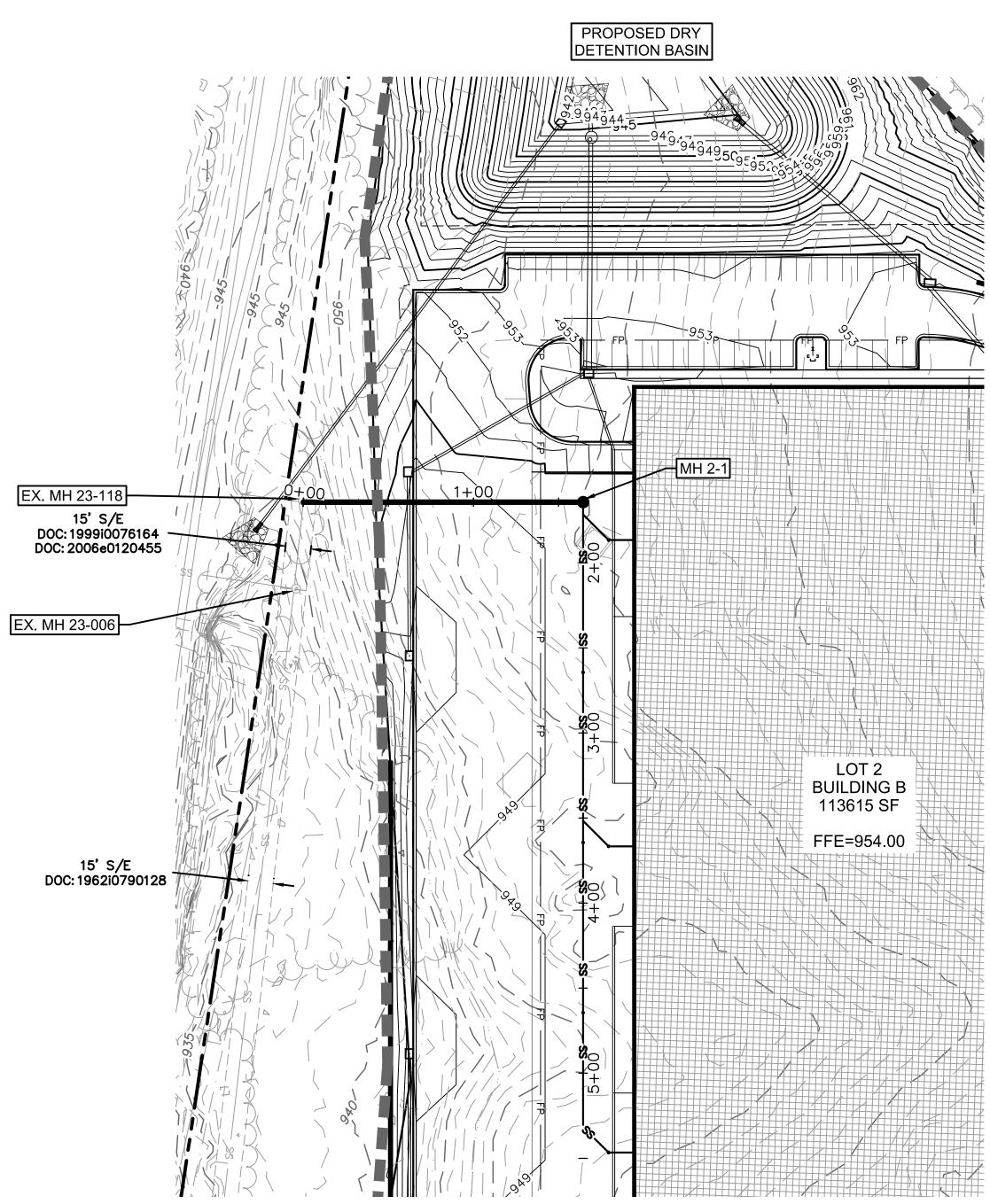
19. SANITARY STRUCTURES SHALL BE PER CURRENT CITY DETAILS. IF CITY DOES NOT HAVE PUBLISHED DETAILS STRUCTURES SHALL BE PER

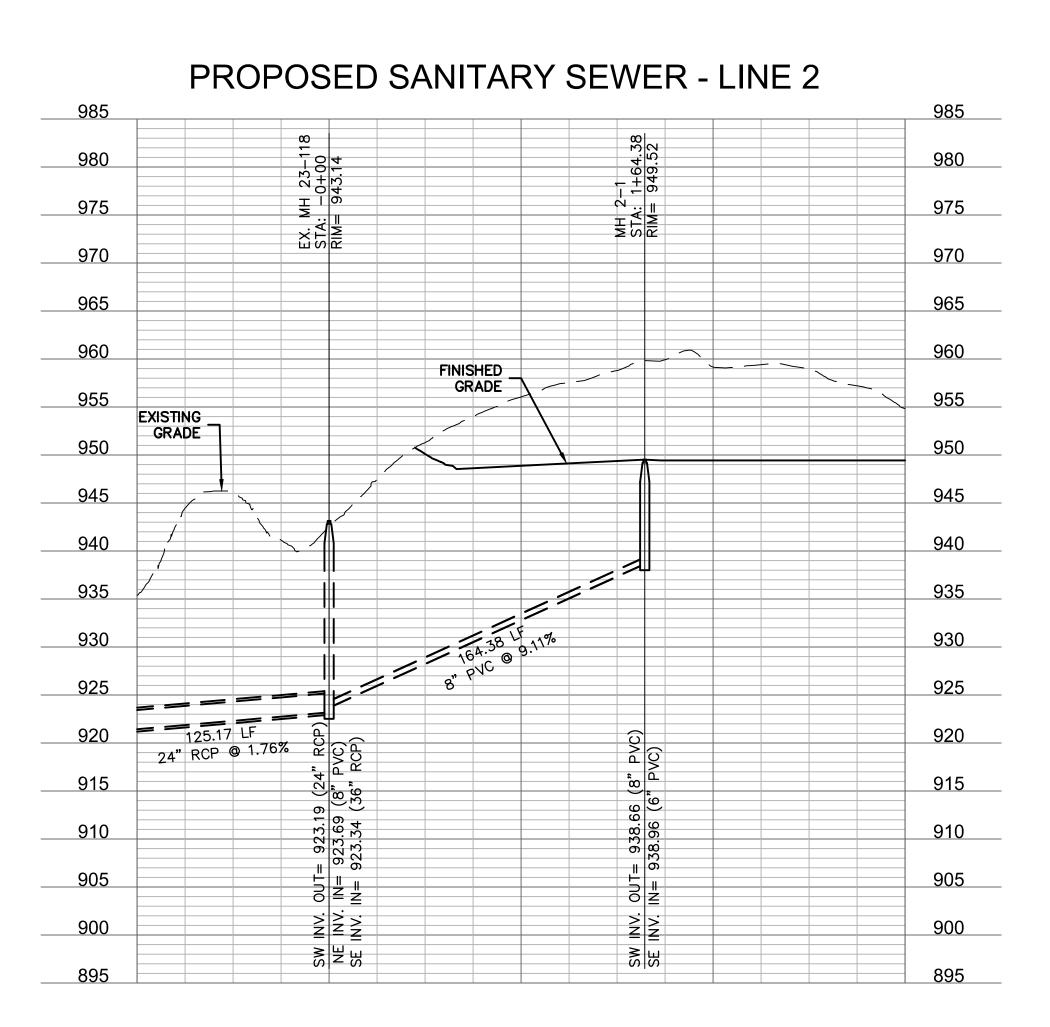
20. GRAVITY SANITARY SEWER AND WATER LINES SHALL BE SEPARATED BY A MINIMUM OF 10'HORIZONTALLY WHEN PARALLEL AND 2'VERTICALLY WHEN CROSSING. WATER LINES SHALL CROSS ABOVE SANITARY SEWERS.

**ESTIMATE OF QUANTITIES** AS-BUILT QUANTITIY ITEM NO. DESCRIPTION UNIT | QUANTITY | UNIT CONNECT TO EXISTING SANITARY SEWER EA. 1 EA. 10" PVC SDR-26 PIPE (MAIN LINE) 150.34 L.F. 2 L.F. STANDARD 4'-0" I.D. MANHOLE (8' DEEP) 2 EA. EA. 3

SUMMARY OF QUANTITIES AS INDICATED ABOVE AND ANY QUANTITIES AS SHOWN WITHIN THE PLANS HAVE BEEN PROVIDED FOR PERMITTING PURPOSES ONLY AND ARE NOT INTENDED FOR USE IN PREPARATION OF CONTRACT DOCUMENTS. QUANTITIES INTENDED FOR, BUT NOT LIMITED TO, THE PREPARATION OF PROPOSALS AND BID DOCUMENTS SHALL BE INDEPENDENTLY EVALUATED BY THE ESTIMATING PARTY BASED UPON THE CONTENTS OF THESE PLANS.







# <u>LEGEND</u>

	EXISTING CO
830	PROPOSED O

## EASEMENT/SETBACK LEGEND

D/E STORM DRAINAGE EASEMENT S/B PROPERTY SETBACK S/E SANITARY SEWER EASEMENT

U/E UTILITY EASEMENT E/E ELECTRIC EASEMENT

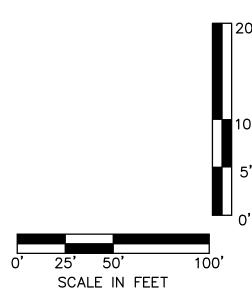
SANITARY SEWER NOTES:

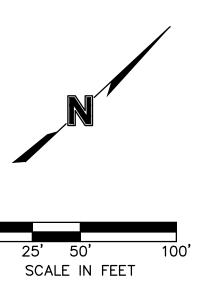
- 1. ALL SANITARY SEWER SERVICE PIPE SHALL BE PVC SDR-26. SEWER SERVICE LINE W/PUSH ON JOINTS.
- 2. TEN FEET OF HORIZONTAL SEPARATION AND TWO FEET OF VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN WATER LINES AND THE SANITARY SEWER SERVICE LINE.
- 3. IN THE EVENT OF WORK IN OR ON THE UG SANITARY MAIN, ANY TREES OR PLANTINGS PLACED WITHIN THE SEWER EASEMENT MAY BE REMOVED WITHOUT REPLACEMENT OR COMPENSATION THERE-OF.
- 4. FOR VERTICAL RISERS AND ENCASEMENTS, SEE SANITARY SEWER CONNECTION SHEETS.
- 5. ROOF DRAINS SHALL NOT BE CONNECTED TO THE SANITARY SEWER.
- 6. REPLACE/ADD BARREL SECTIONS AS REQUIRED TO MEET THE GRADE REQUIREMENTS.
- 7. MANHOLE STATIONS AND PIPE LENGTHS SHOWN ON PLANS ARE TO THE CENTER OF MANHOLES. DO NOT SCALE DRAWINGS.
- 8. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PAVEMENT OR SIDEWALKS DAMAGED DURING THE CONSTRUCTION OF THE SANITARY SEWER MAIN.

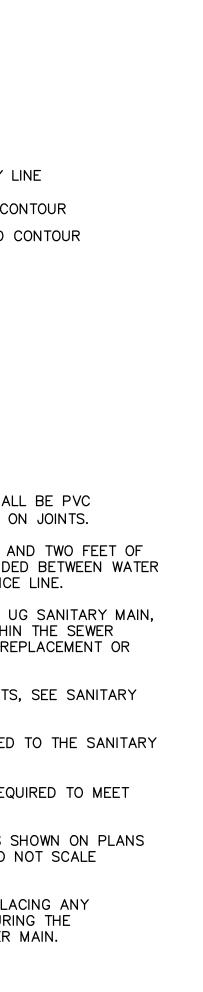
RIM ADJUSTMENT NOTES:

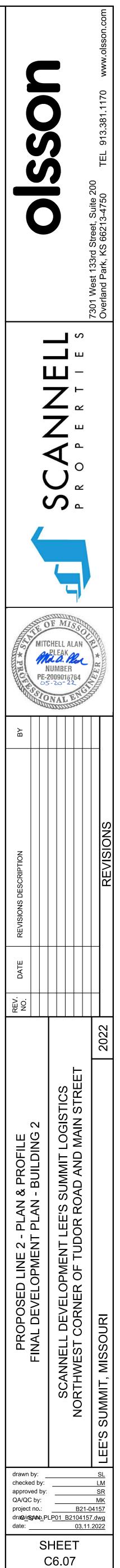
REPLACE/ADD BARREL SECTIONS AS REQUIRED TO MEET THE GRADE REQUIREMENTS.

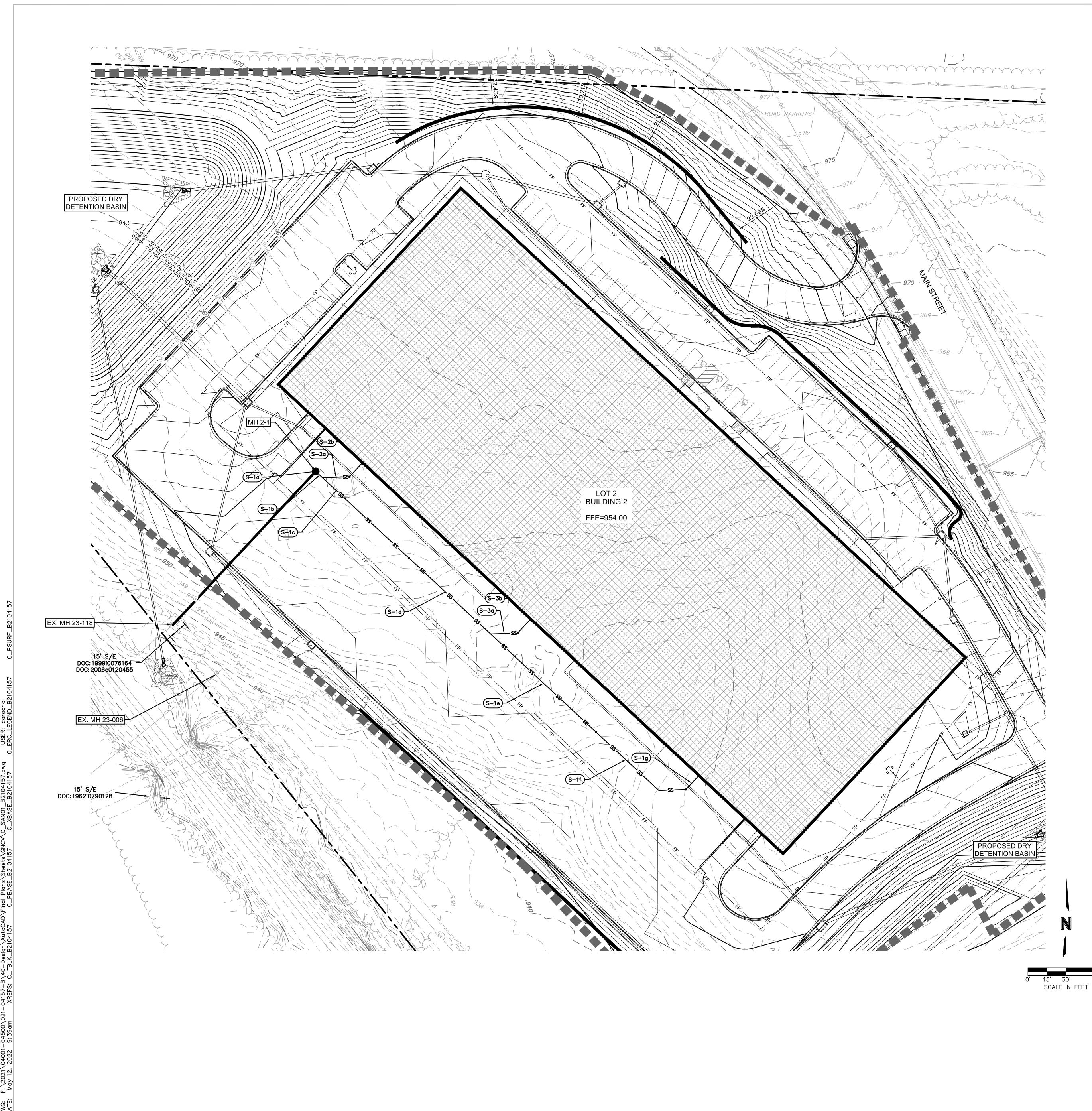
	STRUCTURES
ID	DESCRIPTION
	4' ID STD MANHOLE
MH 2-1	PROPOSED SANITARY SEWER – LINE RIM= 949.52
1+64.38	INV IN = 938.96 (6" PVC) INV OUT = 938.66 (8" PVC) N: 53590.121; E: 54052.436











## SANITARY SEWER PLAN LEGEND

			PROPERT	Y LINE
SS	5	SS ———	EXISTING	SANITA
			EXISTING	STORM
F	⊃−ОН —		EXISTING	OVERH
			STORM S	EWER
SD				
F	⊃-UG		UNDERGR	OUND F
G		G	NATURAL	GAS P
FP	FP	,	FIRE PRO	TECTIO
w				
			UTILITY E	

	PROPOSED PRIV
SS SS	PROPOSED SANI SERVICE LINE

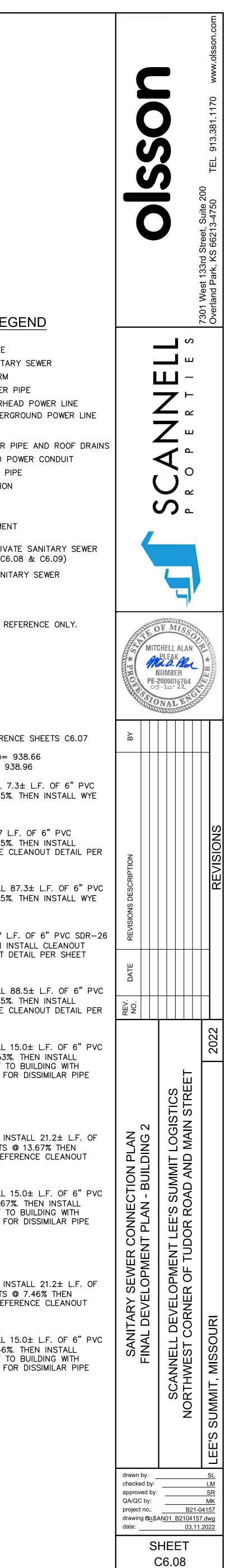
NOTE

FUTURE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY.

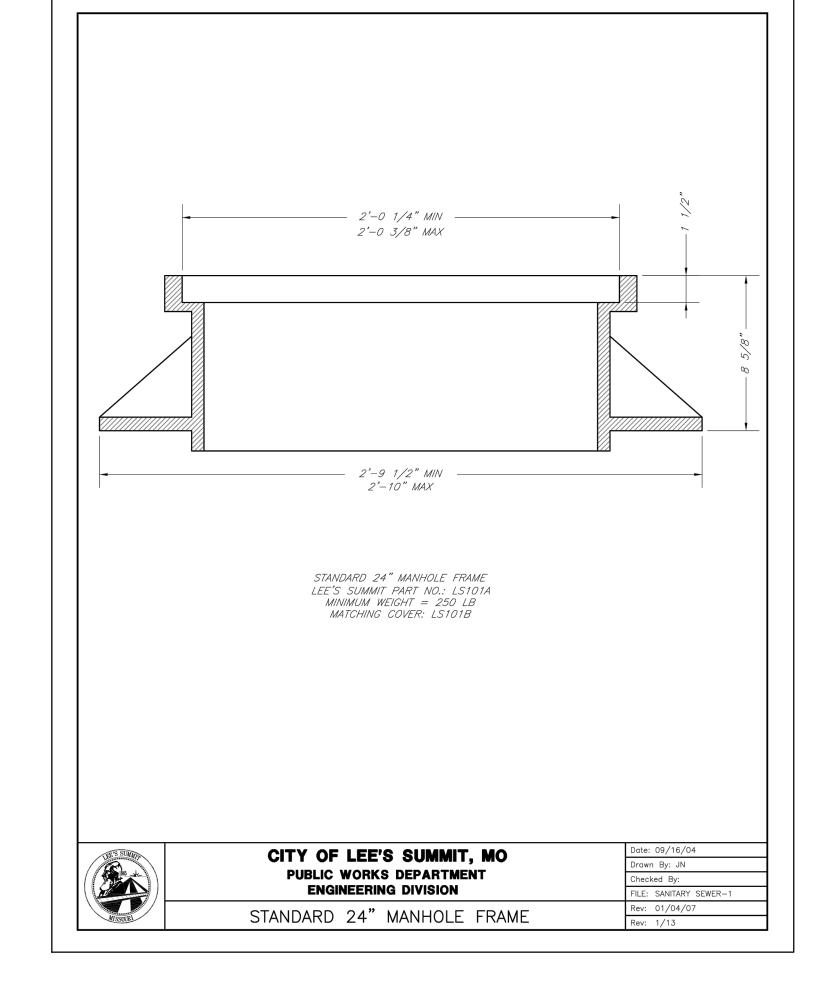
## **KEYNOTES**

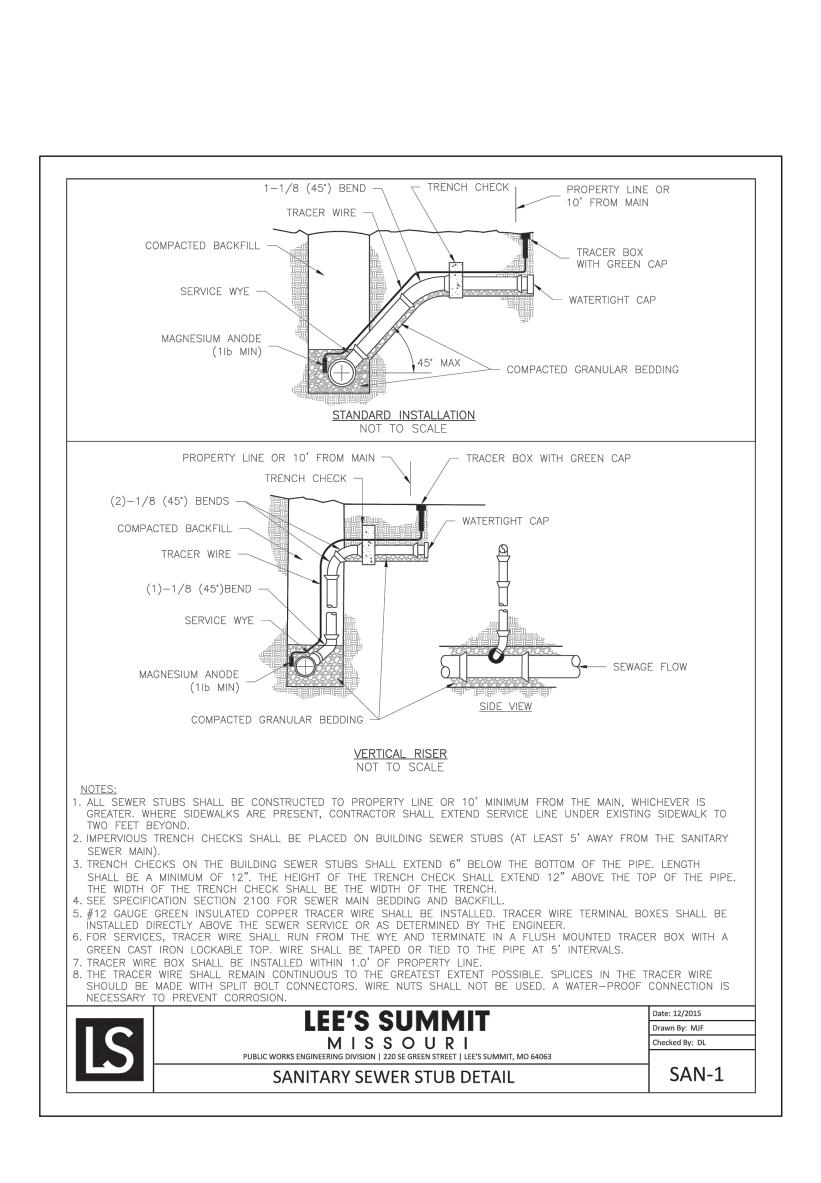
(S-#) <u>SANITARY SEWER</u>

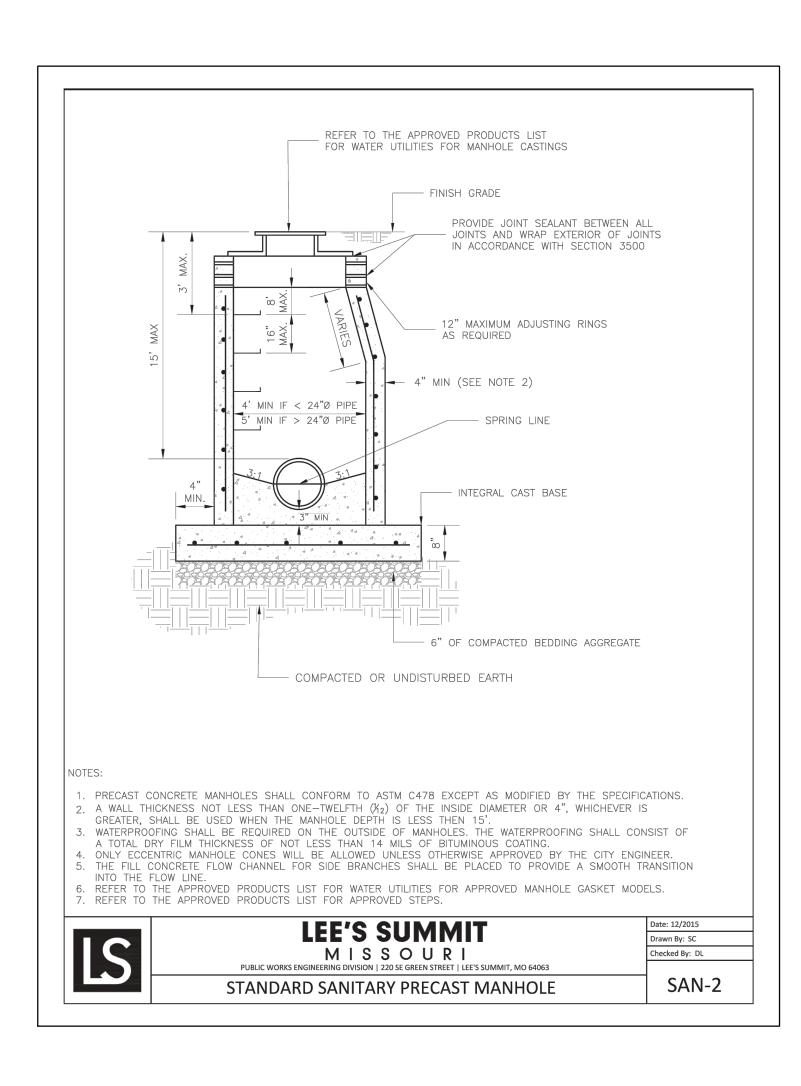
- 1 BUILDING A CONNECTION
- a. PROPOSED MANHOLE MH 2-1. REFERENCE SHEETS C6.07 FOR DETAILS. INV. EL (OUT) @ MANHOLE (8" PVC)= 938.66 INV. EL (IN) @ MANHOLE (6" PVC)= 938.96
- b. CONNECT TO MANHOLE AND INSTALL 7.3± L.F. OF 6" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL WYE CONNECTION. INV. EL @ WYE= 939.05
- c. CONNECT TO WYE AND INSTALL 92.7 L.F. OF 6" PVC SDR—26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL CLEANOUT CONNECTION. REFERENCE CLEANOUT DETAIL PER SHEET C6.09. INV. EL @ CLEANOUT= 940.21
- d. CONNECT TO CLEANOUT AND INSTALL 87.3± L.F. OF 6" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL WYE CONNECTION. INV. EL @ WYE= 941.30
- e. CONNECT TO WYE AND INSTALL 12.7 L.F. OF 6" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL CLEANOUT CÓNNECTION. REFERENCE CLEANOUT DETAIL PER SHEET C6.09. INV. EL @ CLEANOUT= 941.46
- f. CONNECT TO CLEANOUT AND INSTALL 88.5± L.F. OF 6" PVC SDR-26 W/ PUSH ON JOINTS @ 1.25%. THEN INSTALL CLEANOUT CONNECTION. REFERENCE CLEANOUT DETAIL PER SHEET C6.09. INV. EL @ WYE= 942.57
- CONNECT TO CLEANOUT AND INSTALL 15.0 $\pm$  L.F. OF 6" PVC SDR-26 W/ PUSH ON JOINTS @ 9.53%. THEN INSTALL REDUCER ÁS NEEDED AND CONNECT TO BUILDING WITH FERNCO STRONGBACK RC COUPLING FOR DISSIMILAR PIPE CONNECTION. FG @ BUILDING=949.71 INV. EL @ BUILDING=944.00
- 2 BUILDING CONNECTION
- a. CONNECT TO WYE CONNECTION AND INSTALL 21.2± L.F. OF 6" PVC SDR-26 W/ PUSH ON JOINTS @ 13.67% THEN INSTALL CLEANOUT CONNECTION. REFERENCE CLEANOUT DETAIL PER SHEET C6.09. INV. EL @ CLEANOUT= 941.95
- b. CONNECT TO CLEANOUT AND INSTALL 15.0± L.F. OF 6" PVC SDR-26 W/ PUSH ON JOINTS @ 13.67%. THEN INSTALL REDUCER AS NEEDED AND CONNECT TO BUILDING WITH FERNCO STRONGBACK RC COUPLING FOR DISSIMILAR PIPE CONNECTION. FG @ BUILDING=949.71 INV. EL @ BUILDING=944.00
- 3 BUILDING CONNECTION
- a. CONNECT TO WYE CONNECTION AND INSTALL 21.2± L.F. OF 6" PVC SDR-26 W/ PUSH ON JOINTS @ 7.46% THEN INSTALL CLEANOUT CONNECTION. REFERENCE CLEANOUT DETAIL PER SHEET C6.09. INV. EL @ CLEANOUT= 941.30
- b. CONNECT TO CLEANOUT AND INSTALL 15.0± L.F. OF 6" PVC SDR-26 W/ PUSH ON JOINTS @ 7.46%. THEN INSTALL REDUCER AS NEEDED AND CONNECT TO BUILDING WITH FERNCO STRONGBACK RC COUPLING FOR DISSIMILAR PIPE CONNECTION. FG @ BUILDING=949.71 INV. EL @ BUILDING=944.00

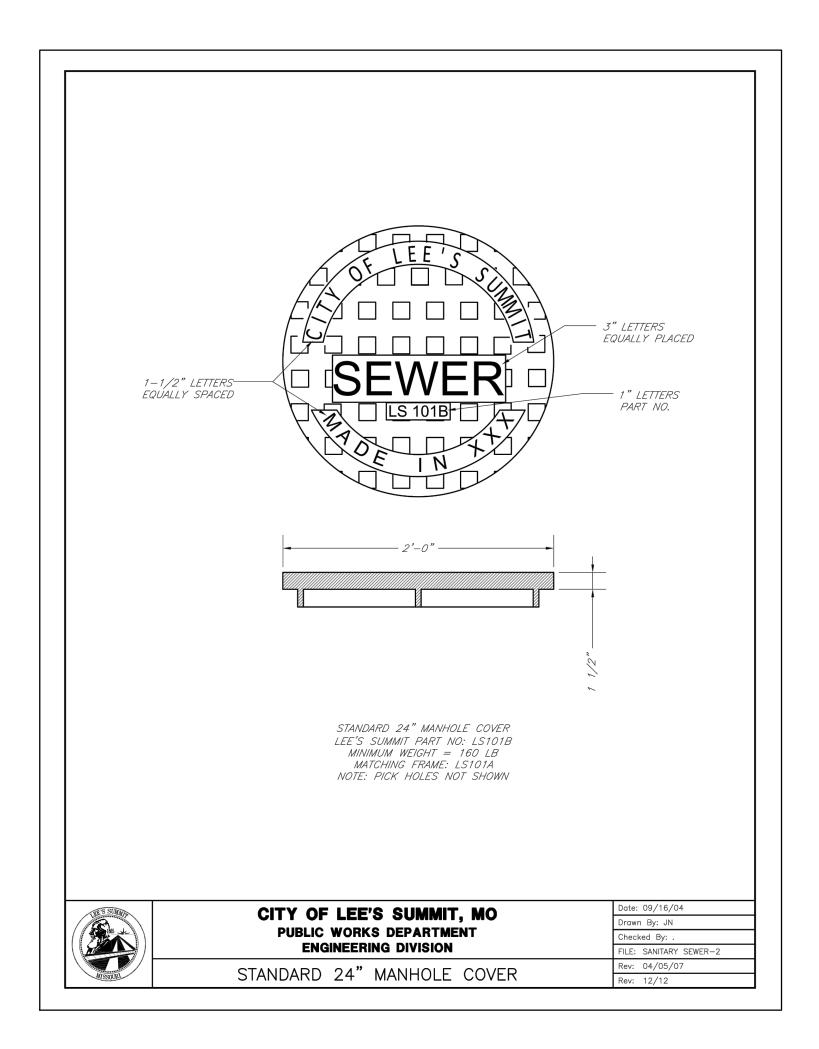


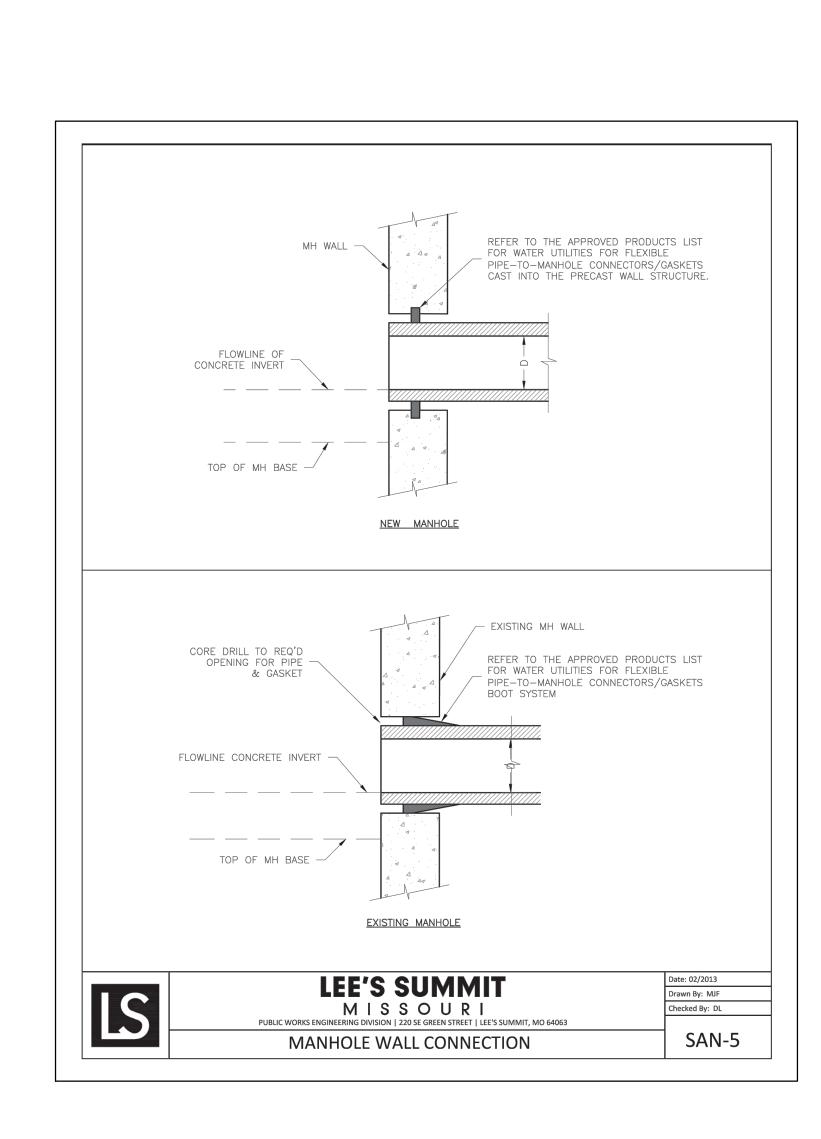


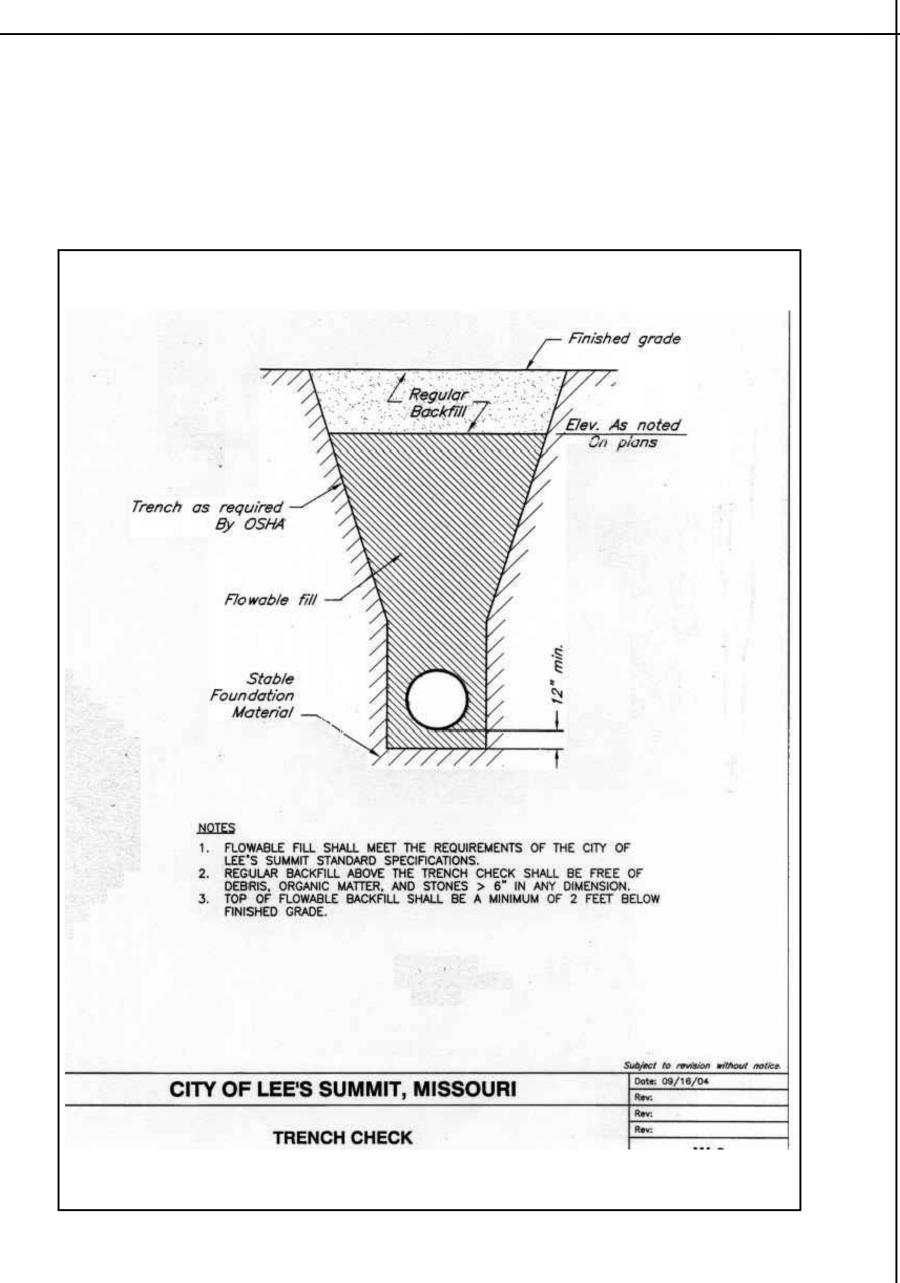


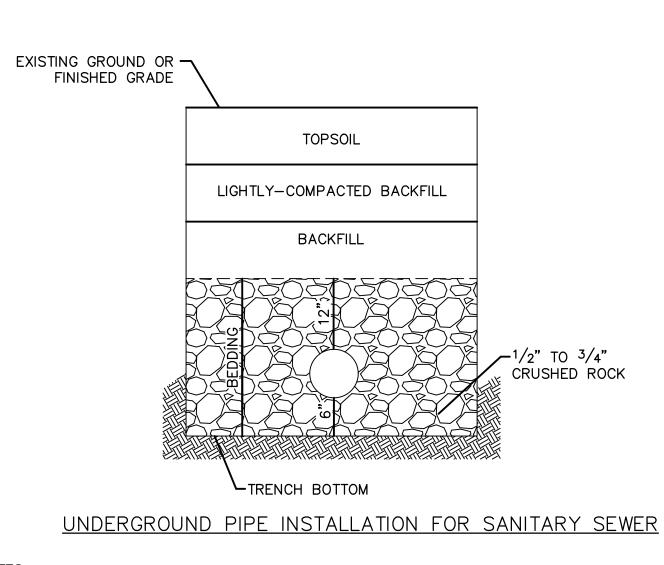








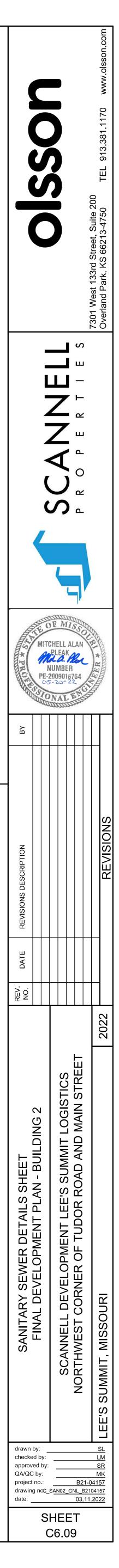


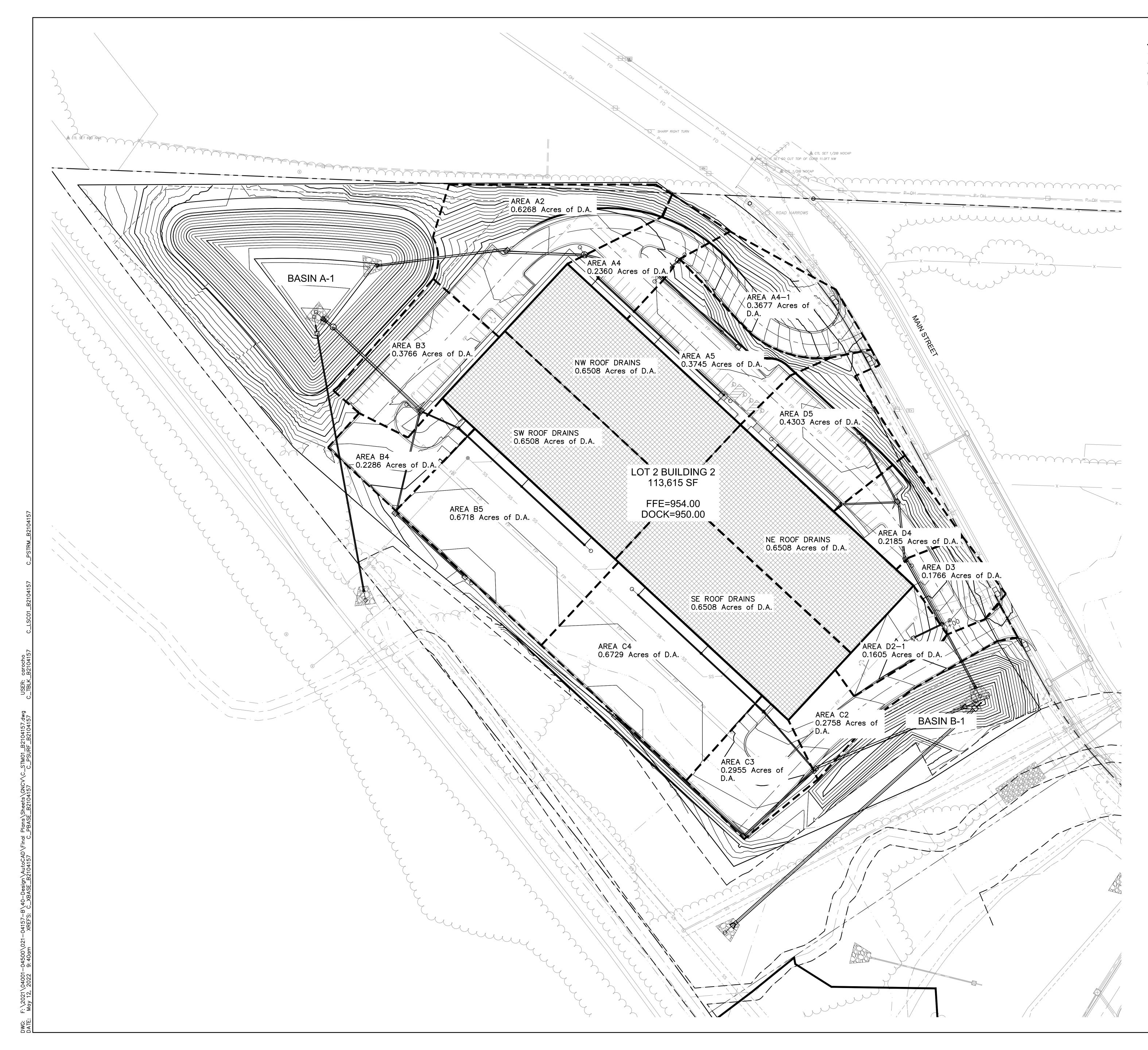


1. A MINIMUM OF 36 INCHES OF COVER SHALL BE OVER THE TOP OF THE PIPE. THIS MINIMUM OF COVER SHALL BE FROM THE TOP OF PIPE TO THE FINISHED GRADE. 2. BEDDING AGGREGATE MATERIAL SHALL BE PER SECTION 6900 AND 2102 OF THE

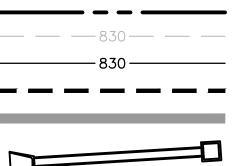
- CITY DESIGN AND CONSTRUCTION MANUAL. BEDDING AGGREGATE SHALL BE PLACED FROM A LEVEL 6 INCHES BELOW THE BOTTOM OF THE PIPE TO A LEVEL 12 INCHES
- ABOVE THE TOP OF THE PIPE. 3. BACKFILL MATERIAL AND PLACEMENT SHALL BE PER SECTION 6900 AND 2102 OF
- THE CITY DESIGN AND CONSTRUCTION MANUAL. 4. TRENCHING SHALL BE IN ACCORDANCE WITH CURRENT OSHA REGULATIONS. SLOPES
- MUST NOT EXTEND BELOW TOP OF BEDDING. 5. MINIMUM AND MAXIMUM TRENCH WIDTHS SHALL BE IN ACCORDANCE WITH PIPE
- MANUFACTURERS RECOMMENDATION AS APPROVED ON ENGINEERING PLANS.

/2" TO <sup>3</sup>/4" CRUSHED ROCK

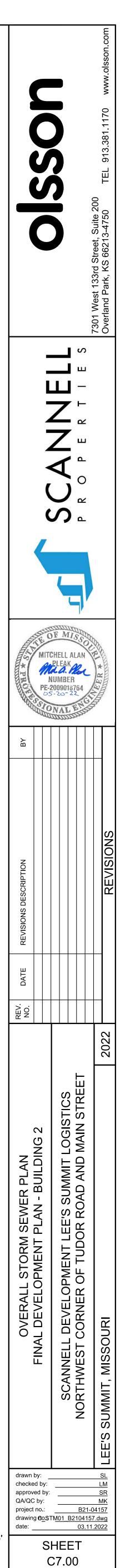


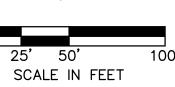


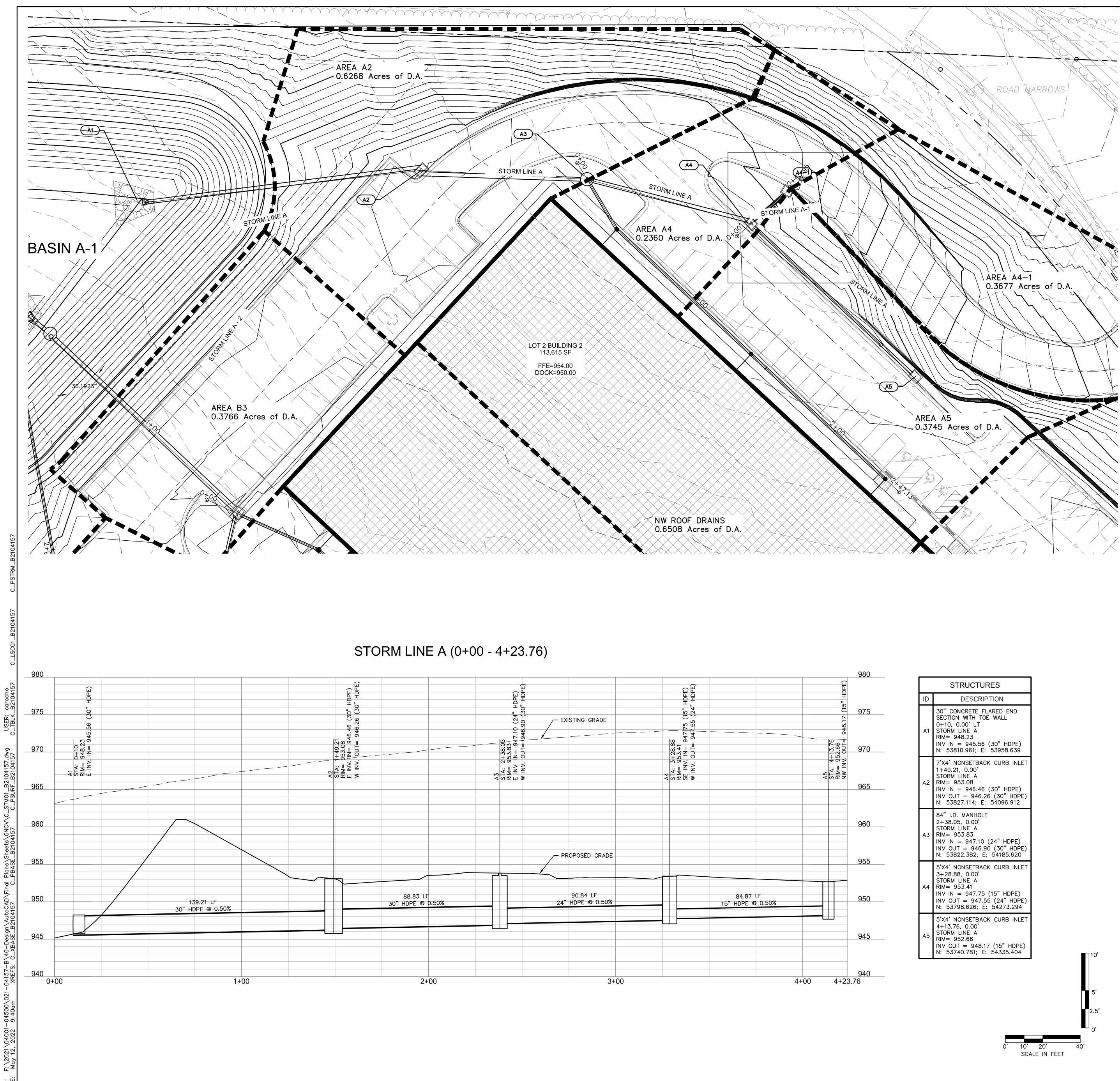
# <u>LEGEND</u>



PROPERTY LINE
 EXISTING CONTOUR
 PROPOSED CONTOUR
 PROPOSED DRAINAGE BOUNDARY
 PROPOSED LANDSCAPE WALL
 STORM SEWER



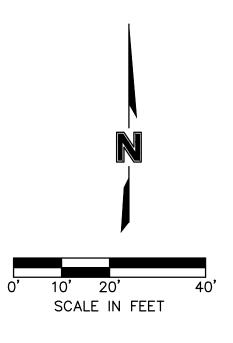


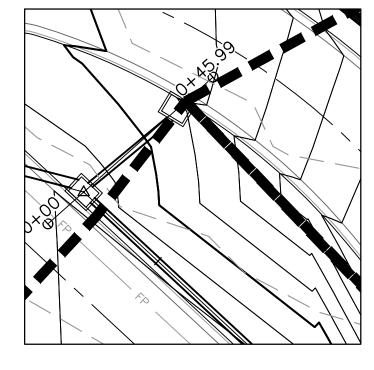


LEGEN	D
	PROPERTY L
	CONSTRUCT CURB & GUI
	CONSTRUCT
SS	INSTALL SAN
——— Е ——— Е ———	INSTALL ELE
——— W ———— W ———	
FP	INSTALL FIRE
GAS	INSTALL GAS
T T	INSTALL TEL
XX	PROPOSED S

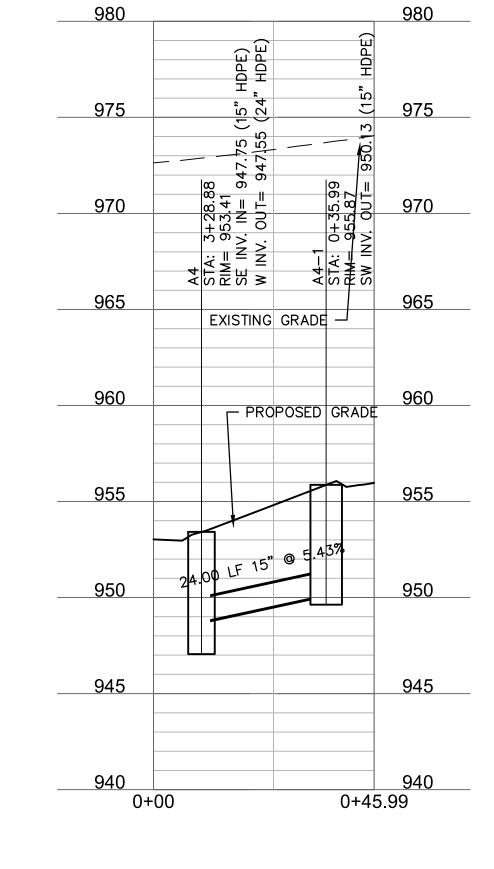
# NOTES:

- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
- 2. SEE ARCHITECTURAL PLANS FOR ROOF DRAIN CONNECTION DETAIL. 3. CURB & GUTTER SIZE (STANDARD, 10", 12") SHOWN ON DIMENSION PLANS





# STORM A4 (0+00 - 0+45.99)



	STRUCTURES
ID	DESCRIPTION
A4–1	5'X4' NONSETBACK CURB INLET 0+35.99, -0.05' LT STORM A4 RIM= 955.87 INV OUT = 950.13 (15" HDPE) N: 53815.919; E: 54292.691

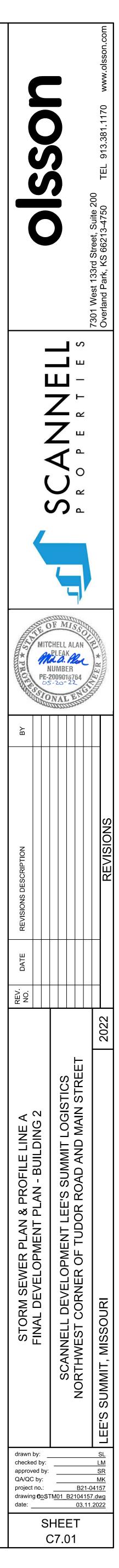
	STRUCTURES
ID	DESCRIPTION
A1	30" CONCRETE FLARED END SECTION WITH TOE WALL 0+10, 0.00' LT STORM LINE A RIM= 948.23 INV IN = 945.56 (30" HDPE) N: 53810.961; E: 53958.639
A2	7'X4' NONSETBACK CURB INLET 1+49.21, 0.00' STORM LINE A RIM= 953.08 INV IN = 946.46 (30" HDPE) INV OUT = 946.26 (30" HDPE) N: 53827.114; E: 54096.912
A3	84" I.D. MANHOLE 2+38.05, 0.00' STORM LINE A RIM= 953.83 INV IN = 947.10 (24" HDPE) INV OUT = 946.90 (30" HDPE) N: 53822.382; E: 54185.620
Α4	5'X4' NONSETBACK CURB INLET 3+28.88, 0.00' STORM LINE A RIM= 953.41 INV IN = 947.75 (15" HDPE) INV OUT = 947.55 (24" HDPE) N: 53798.626; E: 54273.294
Α5	5'X4' NONSETBACK CURB INLET 4+13.76, 0.00' STORM LINE A RIM= 952.66 INV OUT = 948.17 (15" HDPE) N: 53740.781; E: 54335.404

## LINE CONCRETE JTTER

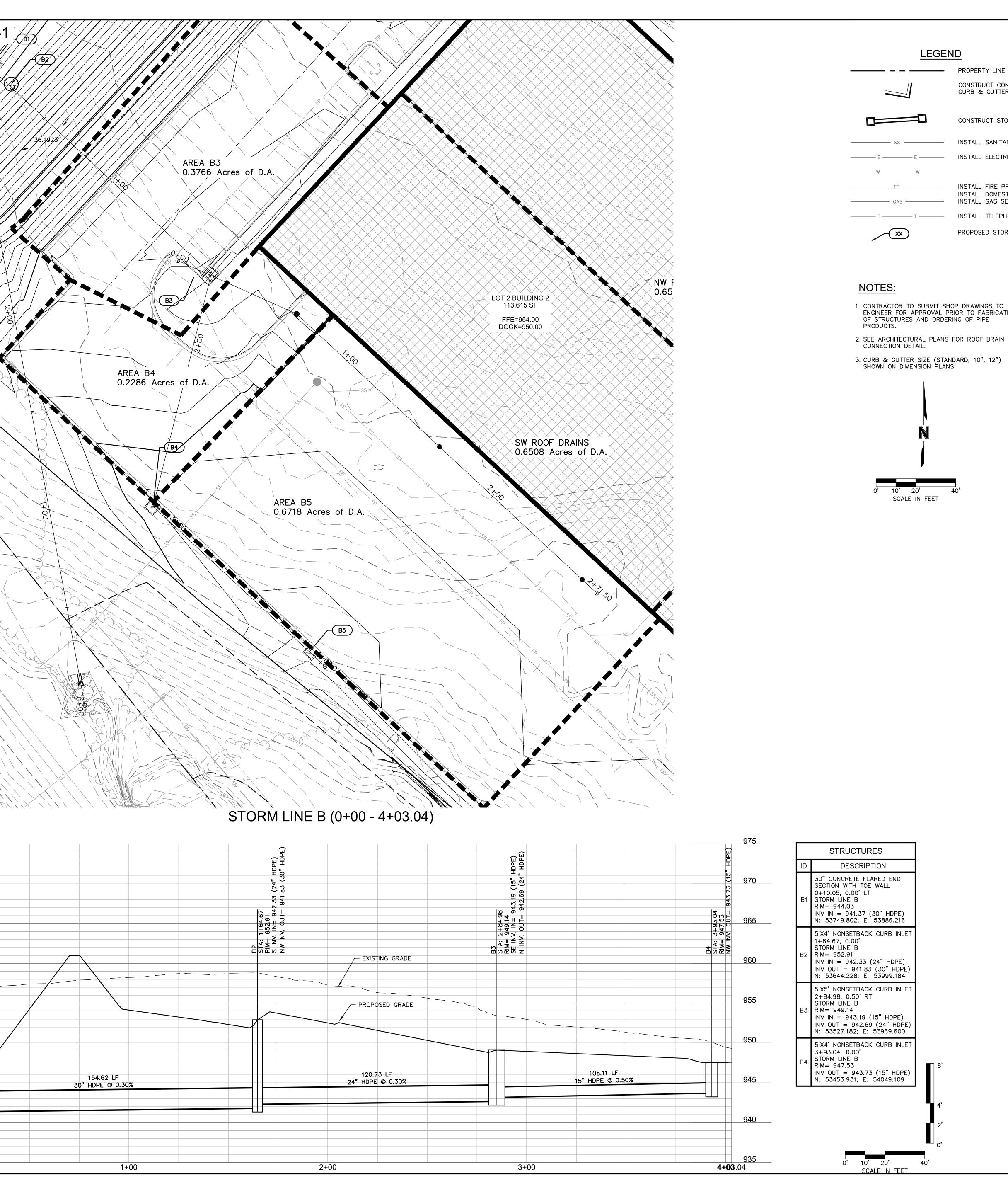
## STORM SEWER

ANITARY SEWER SERVICE ECTRICAL LINE

E PROTECTION LINE OMESTIC WATER SERVICE AS SERVICE LEPHONE SERVICE STORM STRUCTURE



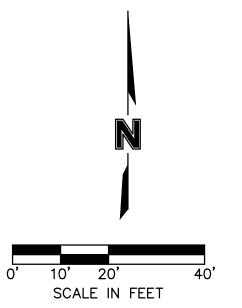
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	970_		(30" HDPE)	
ets\GN0 2104157			STA: 0+10.05 RIM= 944.03 SE INV. IN= 941.37 (	
ans\She BASE_B	965		0+10.0 944.0. NV. IN=	
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# <u>LEGEND</u>

	PROPER1
	CONSTRU CURB &
	CONSTRU
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XX	PROPOSE

- 1. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE
- 3. CURB & GUTTER SIZE (STANDARD, 10", 12") SHOWN ON DIMENSION PLANS



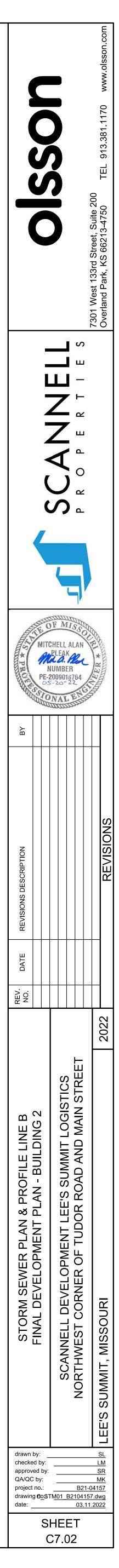
∎ 8'

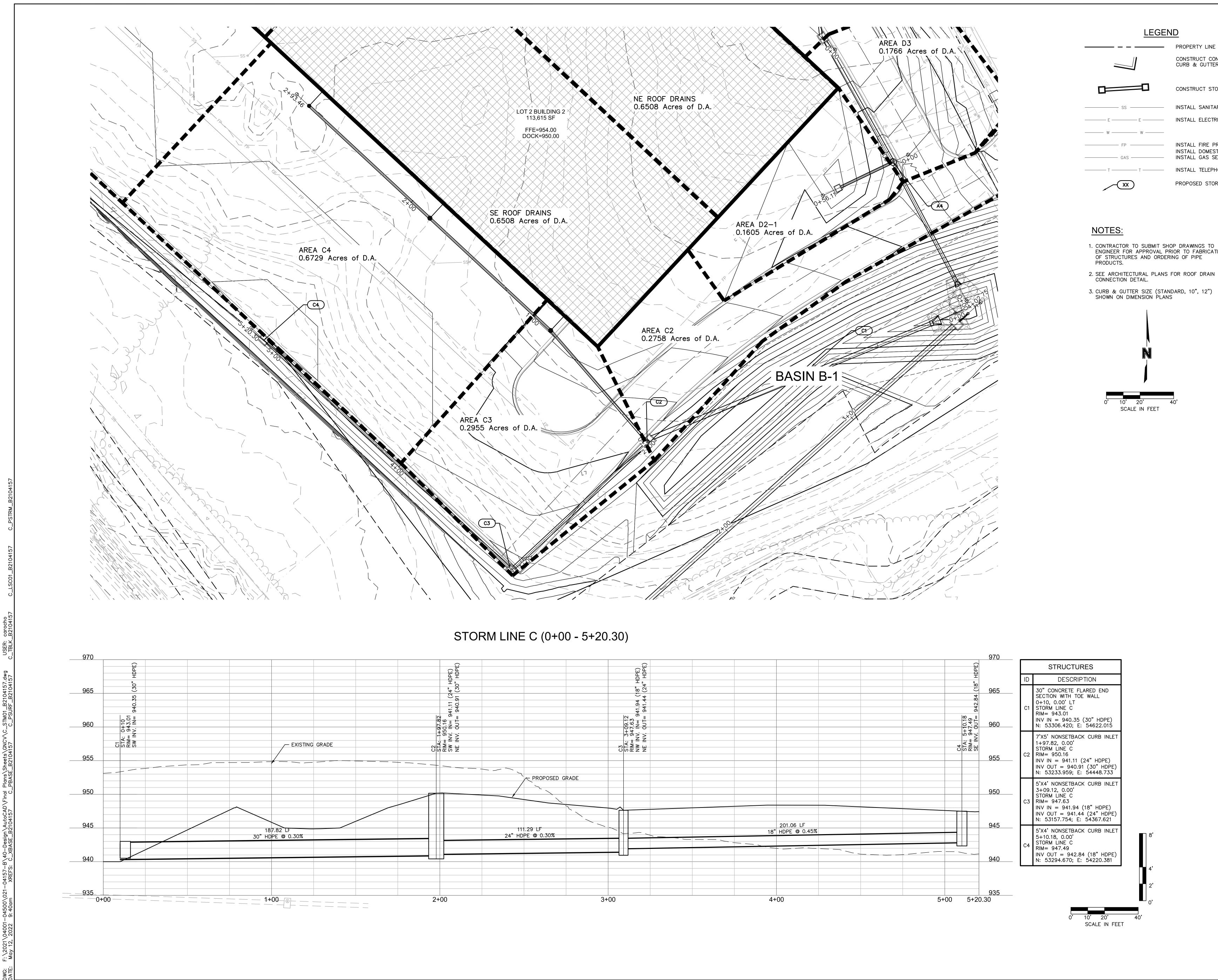
## RTY LINE RUCT CONCRETE : GUTTER

## RUCT STORM SEWER

SANITARY SEWER SERVICE ELECTRICAL LINE

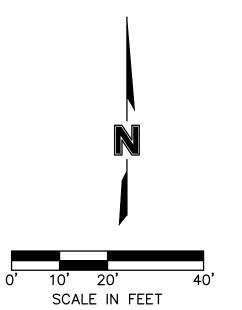
FIRE PROTECTION LINE L DOMESTIC WATER SERVICE GAS SERVICE L TELEPHONE SERVICE SED STORM STRUCTURE





<u>LEGEN</u>	D
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- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND ORDERING OF PIPE PRODUCTS.
- 3. CURB & GUTTER SIZE (STANDARD, 10", 12") SHOWN ON DIMENSION PLANS

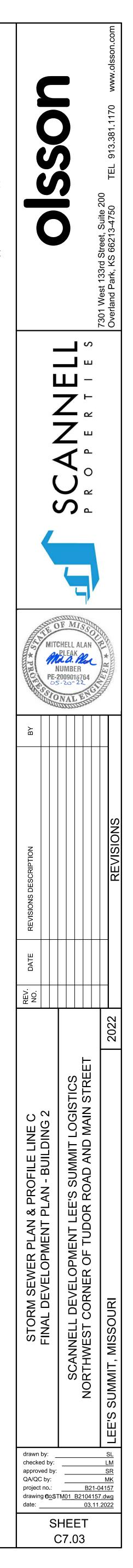


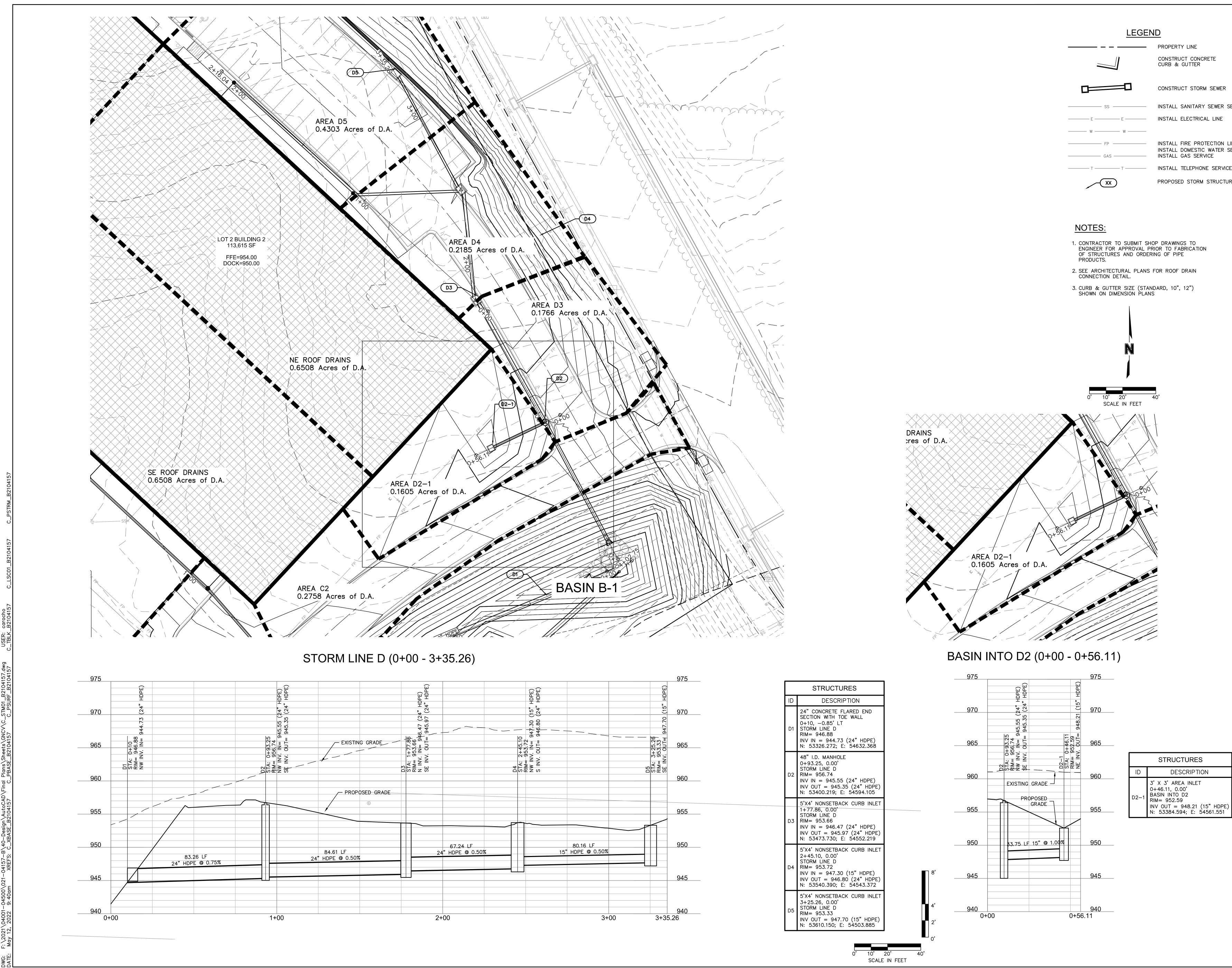
## LINE JCT CONCRETE GUTTER

## ICT STORM SEWER

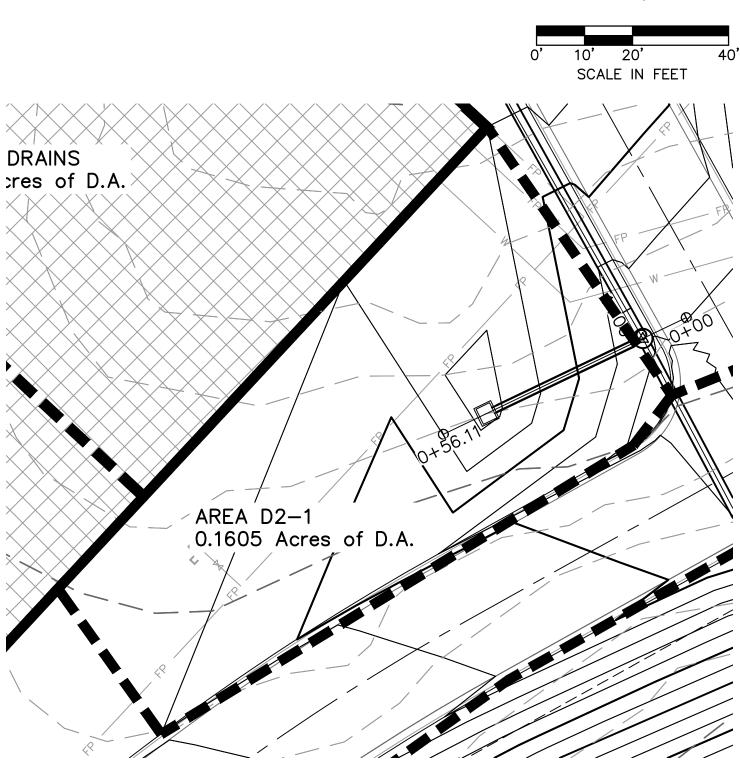
SANITARY SEWER SERVICE ELECTRICAL LINE

FIRE PROTECTION LINE DOMESTIC WATER SERVICE GAS SERVICE TELEPHONE SERVICE STORM STRUCTURE





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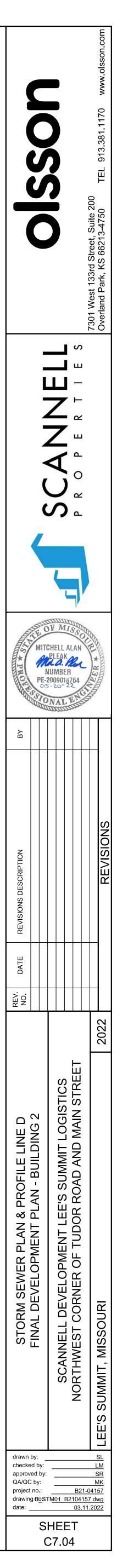


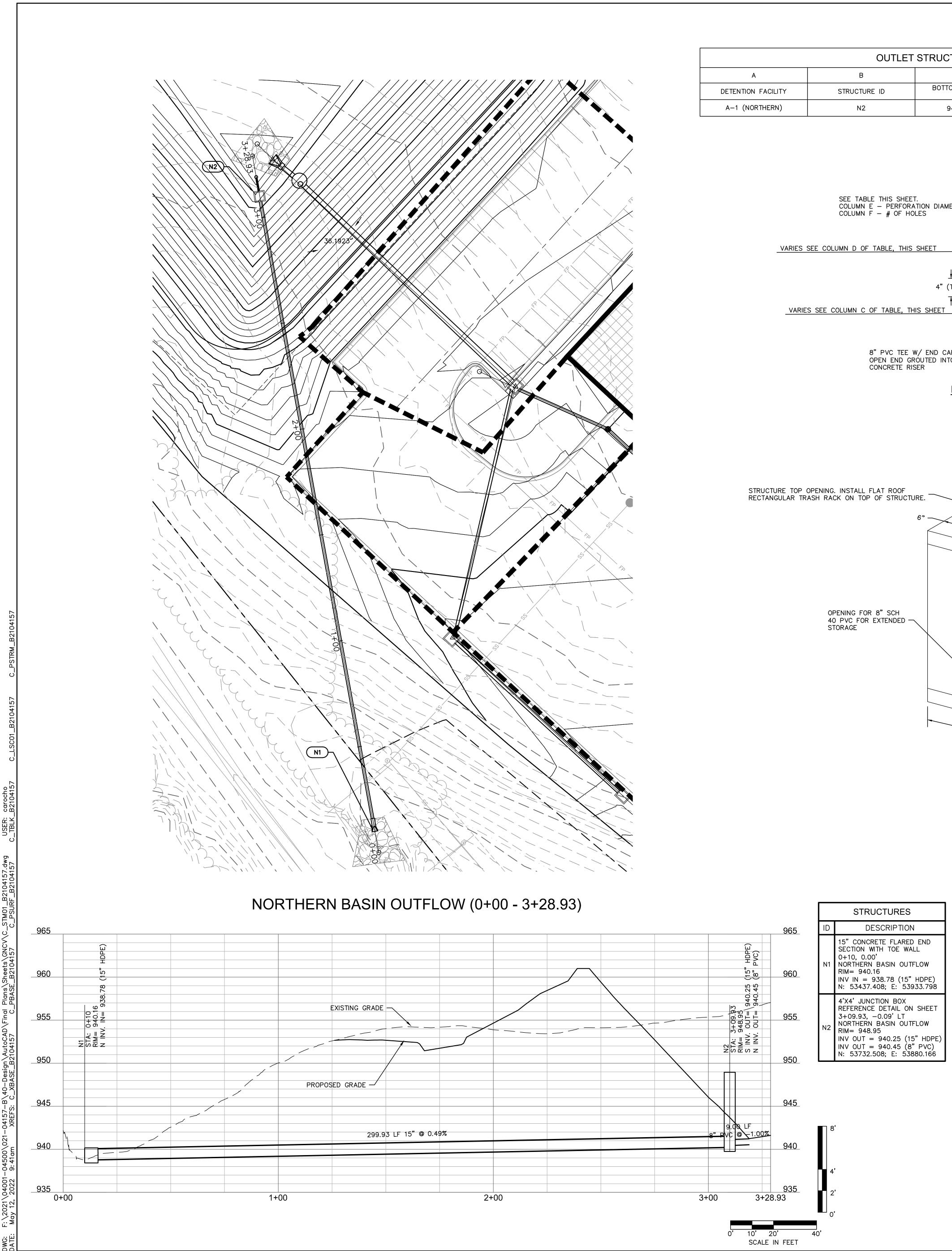
# ONSTRUCT STORM SEWER

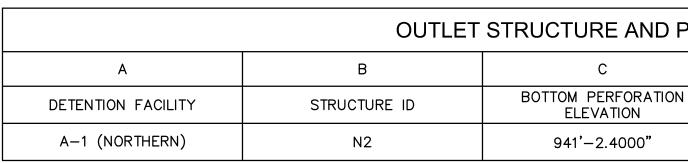
ISTALL SANITARY SEWER SERVICE ISTALL ELECTRICAL LINE

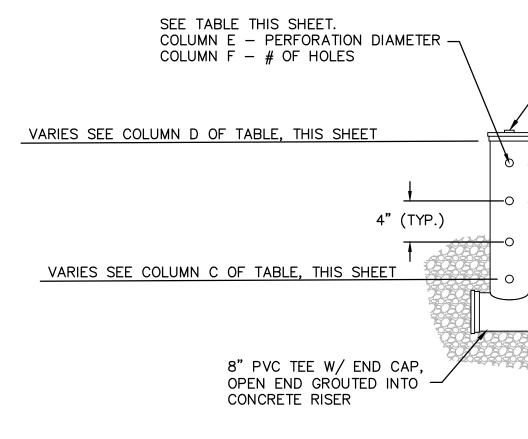
STALL FIRE PROTECTION LINE ISTALL DOMESTIC WATER SERVICE NSTALL TELEPHONE SERVICE ROPOSED STORM STRUCTURE

RES	
IPTION	
NLET	
21 (15" HDDE)	

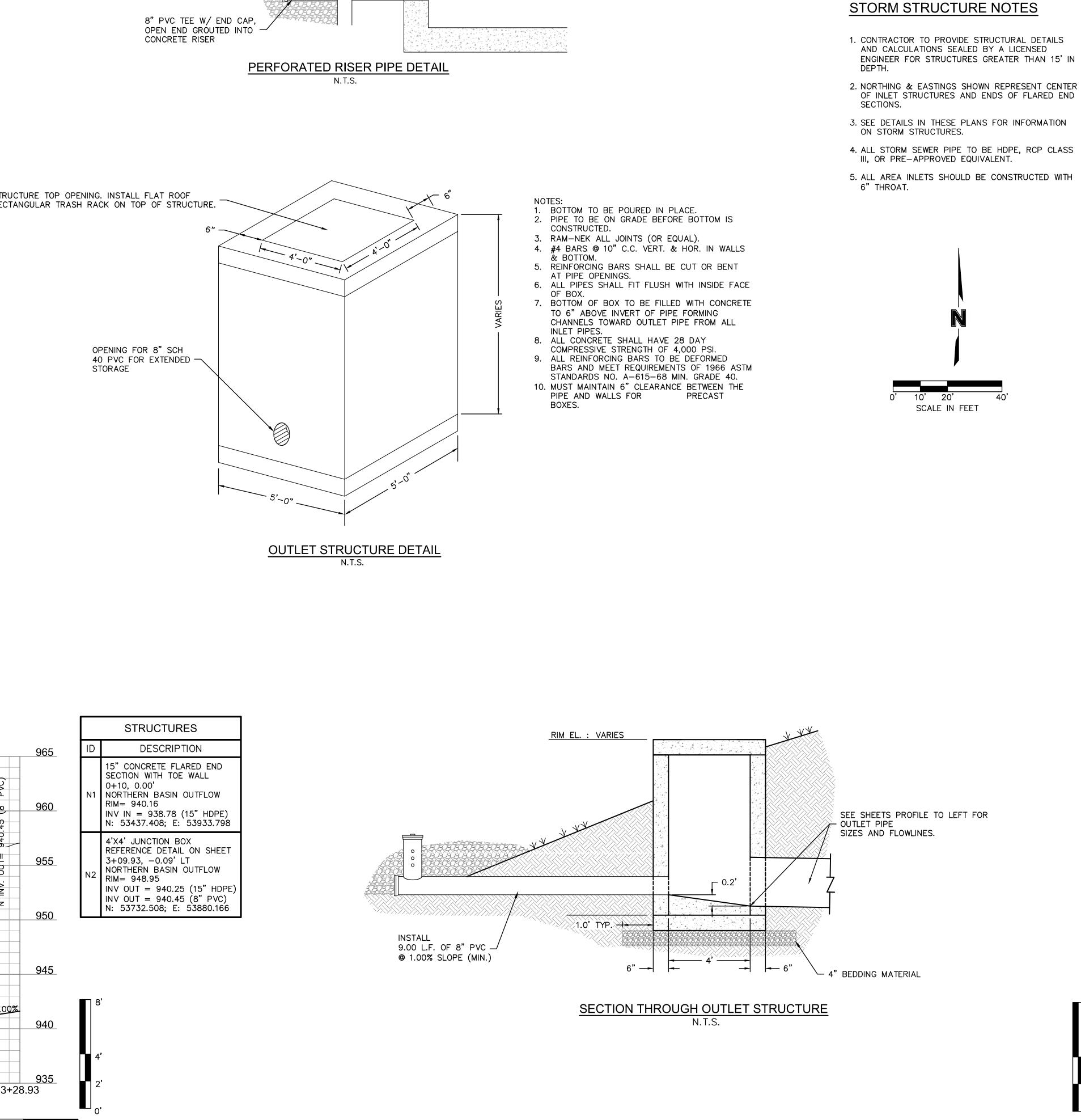














## OUTLET STRUCTURE AND PERFORATED RISER INFORMATION D F TOP ELEVATION OF # OF PERFORATION HOLES PERFORATION DIAMETER PERFORATED PIPE 944'-0" 1-7/8"(1.9") 6

OUTLET STRUCTURE

REMOVABLE CAP WITH

- 1" DIAMETER CAP FOR

8" PERF. SCH 40

\_ 1<sup>1</sup>" CLEAN ROCK. FILL 5' AROUND PERF. RISER

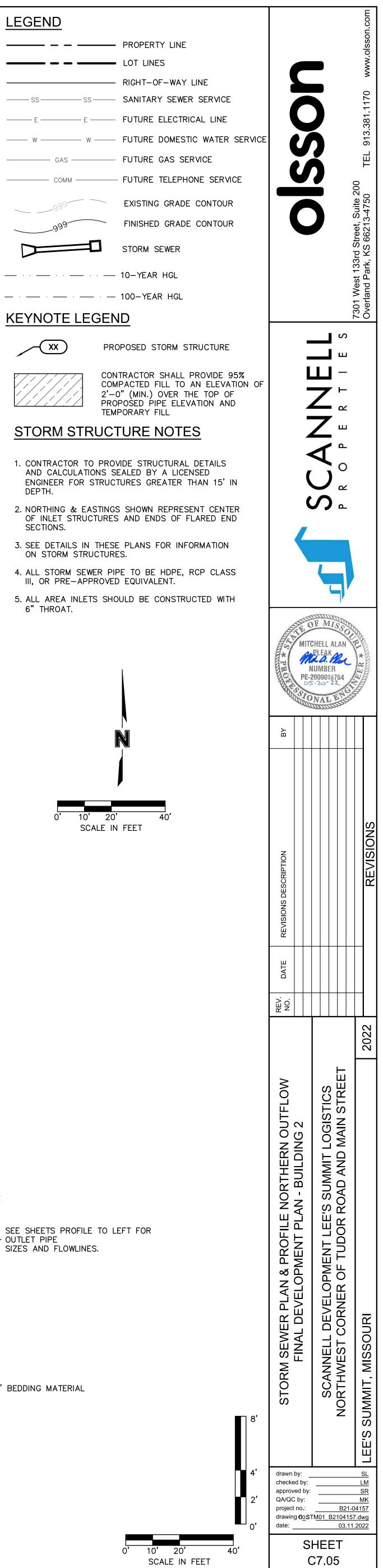
AIR RELIEF

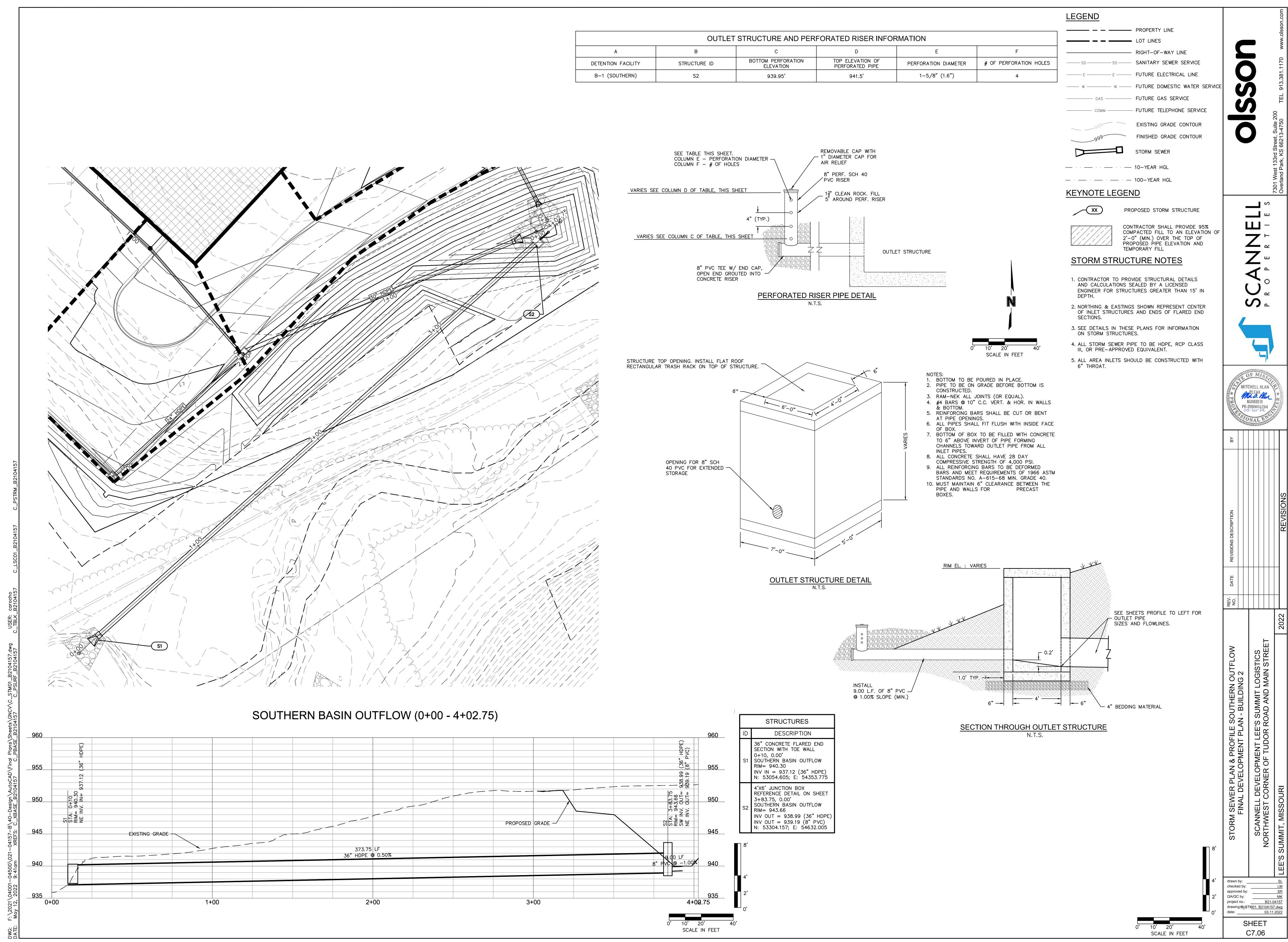
PVC RISER

LEGEND

KEYNOTE LEGEND

( XX )





]		RMATION	FORATED RISER INFOR	STRUCTURE AND PER	OUTLET	
	F	E	D	С	В	A
	# OF PERFORATION HOLES	PERFORATION DIAMETER	TOP ELEVATION OF PERFORATED PIPE	BOTTOM PERFORATION ELEVATION	STRUCTURE ID	ENTION FACILITY
	4	1-5/8" (1.6")	941.5'	939.95'	S2	1 (SOUTHERN)

66" CONCRETE FLARED END ECTION WITH TOE WALL 0+10, 0.00' COUTHERN BASIN OUTFLOW RIM= 940.30 NV IN = 937.12 (36" HDPE) I: 53054.605; E: 54353.775
-'X6' JUNCTION BOX REFERENCE DETAIL ON SHEET S+83.75, 0.00' SOUTHERN BASIN OUTFLOW RM= 943.66

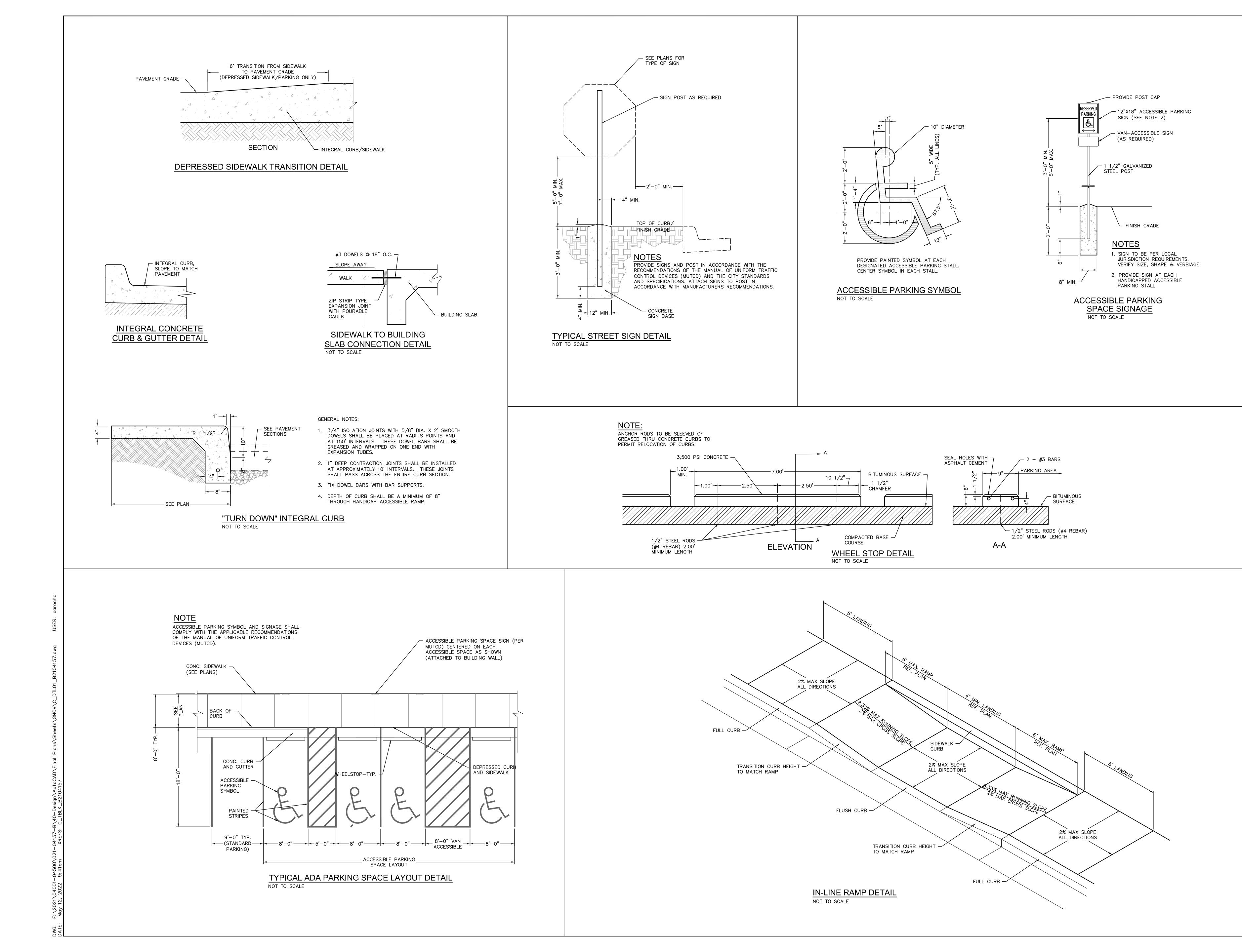
										ę	STORM SEW	<b>IER PIPE</b>	AND STRUC	CTURE T	ABLE - 10 YE	EAR												
TITLE: Lee's Sur		cs Building B																										
JOB #: B021-04																												
DESIGN CONDI	ITIONS: PF	RIVATE - 10 YEAR STORM EVENT																										
STRUCT	TURES		JNOFF CALCULATIONS					-						1	P	PIPE DESIGI	N				_				1	1		
		DIRECT   TOTAL	FLOW	INTENSITY	DESIGN Q		PIPE LENGT	H PIPE	PIPE DIA	Q FULL	PIPE AREA	V FULL	DESIGN V		MH TOP		DOWNSTREAM	DOWNSTREAM	FRICTION	ENTRY LOSS		ENTRY	hf+hm	HW, INLET	HW,		HYDRAULIC	
FROM	ТО		KC (K=1) TC (MIN) TIME	(IN/HR)	(CFS)	DESCRIPTION	(L.F.)	SLOPE (%)		(CFS)	(SQ.FT.)	(F/S)	(F/S)	Hw/D		FLOWLINE		VVATER	HEAD (h f)	COEFFICIENT	ENTRY	LOSS (h m)		CONTROL	OUILEI	GRADE	GRADE	Commen
		(ACRES) (ACRES)	(MIN)								(00.11.)	(173)	(175)					ELEVATION		(k)	LOSS (k)			CONTROL	CONTROL	ELEV.	(MAX)	
A5		0.37 0.90	0.90 5.0	7.35	2.48										952.66											949.17	951.16	
	A4	0.37 0.90	0.90 5.0 0.37	7.35	2.48		84.87	0.50	15	4.58	1.23	3.73	3.81	0.80		948.17	947.75	948.72	0.13	0.40	1.00	0.22	0.35	949.17	949.07			
A4		0.24 0.90	0.90 5.0	7.35	1.56										953.41											949.05	951.91	
	A3	0.98 0.90	0.90 5.4 0.32	7.24	6.38	Storm Line A + Storm Line A4	90.84	0.50	24	16.04	3.14	5.11	4.80	0.75	050.00	947.55	947.10	948.42	0.07	0.40	0.40	0.14	0.22	949.05	948.64	0.40.70	050.00	
A3		0.00 0.90	0.90 5.0 0.90 5.7 0.27	7.35	0.00	Charme Line A. J. NM/ De of Desire	00.00	0.50	30	29.08	4.01	<b>5</b> 00	F 40	0.74	953.83	0.40,000	0.40.40	040.40	0.00	0.40	0.40	0.10	0.04	0.40.70	0.40,00	948.76	952.33	
A.2	A2	<u> </u>		7.15	10.48	Storm Line A + NW Roof Drains	88.83	0.50	30	29.08	4.91	5.92	5.43	0.74	953.08	946.90	946.46	948.13	0.06	0.40	0.40	0.18	0.24	948.76	948.38	049.39	054 59	
A2	Δ1	0.63 0.90	0.90 5.0 0.90 6.0 0.55	7.35	4.15		193.21	0.50	30	20.08	4.91	5.92	5.90	0.81	953.06	946.26	945.56	947.44	0.24	0.40	0.40	0.22	0.45	948.28	947.89	948.28	951.58	
A4-1		0.37 0.90	0.90 5.0 0.35	7.35	2.43		193.21	0.50		29.00	4.51	5.92	5.90	0.01	955.87	940.20	945.50	347.44	0.24	0.40	0.40	0.22	0.45	940.20	547.05	951.12	954.37	
A+- 1	A4	0.37 0.90	0.90 5.0 0.04	7.35	2.43		24.00	5.43	15	15.09	1.23	12.30	9.03	0.80	355.07	950.13	948.82	949.79	0.03	0.40	1.00	1.27	1.30	951.12	951.10	331.12	304.37	
B4		0.67 0.90	0.90 5.0	7.35	4.45		24.00	0.40	10	10.00	1.20	12.00	0.00	0.00	947.53	000.10	040.02	0-10.10	0.00	0.40	1.00	1.27	1.00	001.12	001.10	945.41	946.03	
	B3	0.67 0.90	0.90 5.0 0.42	7.35	4.45		108.11	0.50	15	4.58	1.23	3.73	4.24	1.09	047.00	943.73	943.19	944.61	0.52	0.40	1.00	0.28	0.80	945.09	945.41	0-0.41		
B3		0.23 0.90	0.90 5.0	7.35	1.51		100.11	0.00	10	1.00	1.20	0.70	1.21	1.00	949.14	010.70			0.02	0.10	1.00	0.20	0.00	0 10.00		944.17	947.64	
	B2	0.90 0.90	0.90 5.4 0.52	7.22	5.85		120.73	0.30	24	12.42	3.14	3.95	3.89	0.74		942.69	942.33	943.72	0.08	0.40	0.40	0.09	0.18	944.17	943.90			
B2		0.38 0.90	0.90 5.0	7.35	2.49										952.91											943.61	951.41	
	B1	1.28 0.90	0.90 5.9 0.61	7.07	8.13	Storm Line B + SW Roof Drains	154.62	0.30	30	22.53	4.91	4.59	4.21	0.71		941.83	941.37	943.04	0.06	0.40	0.40	0.11	0.17	943.61	943.22			
C4		0.67 0.90	0.90 5.0	7.35	4.43										947.49											944.10	945.99	
	C3	0.67 0.90	0.90 5.0 0.79	7.35	4.43		201.06	0.45	18	7.07	1.77	4.00	4.22	0.84		942.84	941.94	943.21	0.36	0.40	1.00	0.28	0.64	944.10	943.84			
C3		0.30 0.90	0.90 5.0	7.35	1.96										947.63											942.93	946.13	
	C2		0.90 5.8 0.47	7.12	6.18		111.29	0.30	24	12.42	3.14	3.95	3.95	0.75		941.44	941.11	942.55	0.08	0.40	0.40	0.10	0.18	942.93	942.73			
C2		0.28 0.90	0.90 5.0	7.35	1.83										950.16											942.82	948.66	
	C1	1.89 0.90	0.90 6.3 0.67	6.98	11.89	Storm Line C + SE Roof Drains	187.82	0.30	30	22.53	4.91	4.59	4.64	0.76		940.91	940.35	942.22	0.16	0.40	0.40	0.13	0.29	942.82	942.51			
D5		0.43 0.90	0.90 5.0	7.35	2.85					1.55					953.33											948.75	951.83	
	D4	0.43 0.90	0.90 5.0 0.34	7.35	2.85		80.16	0.50	15	4.58	1.23	3.73	3.93	0.84	050.70	947.70	947.30	948.35	0.16	0.40	1.00	0.24	0.40	948.75	948.75	0.40.00	050.00	
D4	<b>D</b> 0	0.22 0.90	0.90 5.0	7.35	1.45		07.04	0.50	24	10.04	0.14	E 44	E 47	0.00	953.72	010.00	0.40.47	0.49.00	0.10	0.40	0.40	0.17	0.00	010.42	0.40.00	948.28	952.22	
	D3	1.30 0.90	0.90 5.3 0.22	7.25	8.48	Storm Line D + NE Roof Drains	67.24	0.50	24	16.04	3.14	5.11	5.17	0.82	052.66	916.80	946.47	948.02	0.10	0.40	0.40	0.17	0.26	918.43	948.28	047.69	052.10	
D3	D2	0.18 0.90	0.90         5.0           0.90         5.6         0.27	7.35	1.17 9.55		84.61	0.50	24	16.04	3.14	5 11	5.32	0.85	953.66	945.97	945.55	947.21	0.15	0.40	0.40	0.18	0.33	947.68	947.54	947.68	952.16	
D2		1.48         0.90           0.00         0.90	0.90 5.0 0.27	7.18	0.00		04.01	0.50	24	10.04	5.14	5.11	5.52	0.00	956.74	943.97	945.55	347.21	0.15	0.40	0.40	0.10	0.55	947.00	347.34	947.13	955.24	
02	D1	1.64 0.90	0.90 5.8 0.22	7.11	10.47	Storm Line D + Storm Line D2	83.26	0.75	24	19.64	3.14	6.25	6.34	0.89	350.74	945.35	944.73	946.35	0.18	0.40	0.40	0.25	0.43	947.13	946.78	347.13	933.24	
D2-1			0.90 5.0	7.35	1.06		00.20	0.70		10.01	0.11	0.20	0.01	0.00	952.59	010.00	011170	010.00	0.10	0.10		0.20	0.10	0 17.10	0 10.70	949.09	951.09	
	D2	0.16 0.90	0.90 5.0 0.14	7.35	1.06		33.75	1.00	15	6.48	1.23	5.28	3.91	0.69	002.00	948.21	947.87	948.85	0.01	0.40	1.00	0.24	0.25	949.08	949.09	0.00		
NW Roof Drain		0.65 0.90	0.90 5.0	7.35	4.31										953.88											951.62	952.38	
	A3	0.65 0.90	0.90 5.0 0.66	7.35	4.31		224.00	1.00	18	10.53	1.77	5.96	5.65	0.83		950.38	947.74	949.04	0.38	0.40	1.00	0.50	0.88	951.62	950.38			
SW Roof Drain		0.65 0.90	0.90 5.0	7.35	4.31										949.88											947.62	948.38	
	B2	0.65 0.90		7.35	4.31		377.00	0.50	18	7.45	1.77	4.21	4.36	0.83		946.38	944.10	945.55	0.64	0.40	1.00	0.30	0.94	947.62	946.49			
SE Roof Drain		0.65 0.90	0.90 5.0	7.35	4.31										949.88											947.62	948.38	
	C2	0.65 0.90	0.90 5.0 0.83	7.35	4.31		282.00	1.00	18	10.53	1.77	5.96	5.65	0.83		946.38	943.16	944.46	0.48	0.40	1.00	0.50	0.98	947.62	946.38			
NE Roof Drain		0.65 0.90	0.90 5.0	7.35	4.31										953.88											951.62	952.38	
	D3	0.65 0.90		7.35	4.31		194.00	1.00	18	10.53	1.77	5.96	5.65	0.83		950.38	948.04	949.34	0.33	0.40	1.00	0.50	0.83	951.62	950.38			

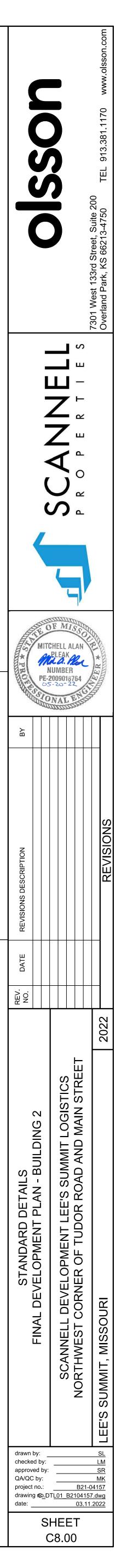
														5	TORM SEW	ER PIPE A	AND STRUC	IURE IA	BLE - 100 1													
TITLE: Lee's Su		cs Building B																														
JOB #: B021-04																																
DESIGN COND	ITIONS: PR	IVATE - 100 YE	EAR STOR							1											<b>N</b>											
STRUC	IURES								1			1	1			1			1	PIPE DESIGN	N		.					1				
FROM	то	DIRECT AREA (ACRES)	TOTAL AREA (ACRES)	C (F	KC <=1.25)	Tc (MIN)	FLOW TIME (MIN)	INTENSITY (IN/HR)	DESIGN Q (CFS)	DESCRIPTION	PIPE LENGTH (L.F.)	H PIPE SLOPE (%)	PIPE DIA (IN)	Q FULL (CFS)	PIPE AREA (SQ.FT.)	V FULL (F/S)	DESIGN V (F/S)	Hw/D	MH TOP ELEVATION	UPSTREAM FLOWLINE		DOWNSTREAM WATER ELEVATION	FRICTION HEAD (h f)		ACTUAL ENTRY LOSS (k)	ENTRY LOSS (h m)	hf+hm (FT)	HW, INLE CONTROL		HYDRAULIC GRADE ELEV.	HYDRAULIC GRADE (MAX)	Comm
A5		0.37			1.00	5.0		10.32	3.87										952.66											949.61	951.16	
	A4		0.37		1.00	5.0	0.34	10.32	3.87		84.87	0.50	15	4.58	1.23	3.73	4.18	0.99		948.17	947.75	949.03	0.31	0.40	1.00	0.27	0.58	949.40	949.61		·	
A4		0.24		0.90	1.00	5.0		10.32	2.44										953.41											949.29	951.91	
	A3		0.98	0.90	1.00	5.3	0.28	10.18	9.96	Storm Line A + Storm Line A4	90.84	0.50	24	16.04	3.14	5.11	5.37	0.87		947.55	947.10	948.81	0.18	0.40	0.40	0.18	0.36	949.29	949.16	0.40.00		
A3		0.00		0.90	1.00	5.0		10.32	0.00									0.05	953.83											949.02	952.33	
	A2		1.63		1.00	5.6	0.24	10.07	16.41	Storm Line A + NW Roof Drains	88.83	0.50	30	29.08	4.91	5.92	6.09	0.85	050.00	946.90	946.46	948.44	0.14	0.40	0.40	0.23	0.37	949.02	948.81	0.40 77		
A2	A1	0.63	2.26	0.90	1.00	5.0 5.9	0.49	10.32	6.47		193.21	0.50	20	29.08	4.01	5.92	6 52	1.00	953.08	946.26	945.56	947.85	0.50	0.40	0.40	0.06	0.85	948.77	948.70	948.77	951.58	
A 4 4		0.27	2.20	0.90	1.00		0.49	9.98	22.51		193.21	0.50	30	29.08	4.91	5.92	6.53	1.00	055.97	940.20	945.50	947.00	0.59	0.40	0.40	0.26	0.65	940.77	946.70	051 50	054.27	
A4-1	A4	0.37	0.37		1.00 1.00	5.0 5.0	0.04	10.32	<u>3.80</u> <u>3.80</u>		24.00	5.43	15	15.09	1.23	12.30	10.22	0.97	955.87	950.13	948.82	949.88	0.08	0.40	1.00	1.62	1.71	951.35	951.59	951.59	954.37	
B4	A4	0.67	0.37			-	0.04	10.02			24.00	5.45	15	15.09	1.25	12.30	10.22	0.97	947.53	930.13	940.02	949.00	0.00	0.40	1.00	1.02	1.7 1	951.55	931.39	946.72	946.03	
D4	B3	0.07	0.67	0.90	1.00 1.00	5.0 5.0	0.32	10.32	6.93 6.93		108.11	0.50	15	4.58	1.23	3.73	5.65	1.69	947.55	943.73	943.19	944.97	1.26	0.40	1.00	0.50	1.76	945.84	946.72	940.72	940.03	
B3		0.23	0.07	0.90	1.00	5.0	0.52	10.32	2.36		100.11	0.50	15	4.50	1.25	5.75	5.05	1.03	949.14	343.73	343.13	544.57	1.20	0.40	1.00	0.50	1.70	343.04	340.72	944.47	947.64	
	B2	0.20	0.90		1.00	5.3	0.47	10.32	9.18		120.73	0.30	24	12.42	3.14	3.95	4.32	0.84	040.14	942.69	942.33	944.15	0.20	0.40	0.40	0.12	0.32	944.37	944.47	544.47		
B2		0.38	0.00	0.90	1.00	5.0	0.47	10.12	3.89		120.10	0.00		12.72	0.14	0.00	4.02	0.04	952.91	042.00	042.00	044.10	0.20	0.40	0.40	0.12	0.02	0-1-1.07	0-1-117	943.77	951.41	
	B1	0.00	1.28		1.00	5.8	0.55	10.01	12.78	Storm Line B + SW Roof Drains	154.62	0.30	30	22.53	4.91	4.59	4.72	0.78	002.01	941.83	941.37	943.36	0.15	0.40	0.40	0.14	0.29	943.77	943.65	0.10.77		
C4		0.67		0.90	1.00	5.0		10.32	6.92										947.49											944.86	945.99	
	C3		0.67		1.00	5.0	0.74		6.92		201.06	0.45	18	7.07	1.77	4.00	4.55	1.08		942.84	941.94	943.65	0.88	0.40	1.00	0.32	1.20	944.46	944.86			
C3		0.30		0.90	1.00	5.0		10.32	3.05										947.63											943.32	946.13	
	C2		0.97	0.90	1.00	5.7	0.43	10.02	9.68		111.29	0.30	24	12.42	3.14	3.95	4.36	0.86		941.44	941.11	943.00	0.21	0.40	0.40	0.12	0.32	943.16	943.32			
C2		0.28		0.90	1.00	5.0		10.32	2.85										950.16											943.38	948.66	
	C1		1.89	0.90	1.00	6.2	0.61	9.86	18.66	Storm Line C + SE Roof Drains	187.82	0.30	30	22.53	4.91	4.59	5.12	0.90		940.91	940.35	942.82	0.39	0.40	0.40	0.16	0.55	943.16	943.38			
D5		0.43		0.90	1.00	5.0		10.32	4.44										953.33											949.38	951.83	
	D4		0.43	0.90	1.00	5.0	0.31	10.32	4.44		80.16	0.50	15	4.58	1.23	3.73	4.25	1.09		947.70	947.30	948.72	0.38	0.40	1.00	0.28	0.66	949.06	949.38			
D4		0.22		0.90	1.00	5.0		10.32	2.26										953.72											948.95	952.22	
	D3		1.30		1.00	5.3	0.20	10.19	13.25	Storm Line D + NE Roof Drains	67.24	0.50	24	16.04	3.14	5.11	5.69	1.02		916.80	946.47	948.51	0.23	0.40	0.40	0.20	0.43	918.85	948.95			
D3		0.18		0.90	1.00	5.0		10.32	1.82										953.66											948.36	952.16	
	D2		1.48		1.00	5.5	0.24	10.11	14.93		84.61	0.50	24	16.04	3.14	5.11	5.79	1.12		945.97	945.55	947.78	0.37	0.40	0.40	0.21	0.58	948.21	948.36		<u> </u>	
D2		0.00		0.90	1.00	5.0		10.32	0.00										956.74			- /								947.78	955.24	
	D1		1.64		1.00	5.8	0.20	10.02	16.40	Storm Line D + Storm Line D2	83.26	0.75	24	19.64	3.14	6.25	6.98	1.21		945.35	944.73	946.86	0.44	0.40	0.40	0.30	0.74	947.78	947.60			
D2-1		0.16			1.00	5.0		10.32	1.66										952.59											949.26	951.09	
	D2		0.16	0.90	1.00	5.0	0.13	10.32	1.66		33.75	1.00	15	6.48	1.23	5.28	4.41	0.73		948.21	947.87	948.94	0.02	0.40	1.00	0.30	0.32	949.12	949.26			
NW Roof Drain		0.65	0.05		1.00	5.0	0.50	10.32	6.72			1.00	10	40.50	4 77		0.01	4.05	953.88	050.00	0.47 7.4	0.40.05		0.40	1.00	0.00	4.54	054.00	050.70	951.96	952.38	
	A3		0.65		1.00	5.0	0.59	10.32	6.72		224.00	1.00	18	10.53	1.77	5.96	6.31	1.05	0.40.00	950.38	947.74	949.25	0.93	0.40	1.00	0.62	1.54	951.96	950.79	0.47.00		
SW Roof Drain		0.65	0.05		1.00	5.0	1.00	10.32	6.72		077.00	0.50	10	7 45	4 77	4.04	4 70	1.05	949.88	0.40,00	044.40	0.45.05	4.50	0.40	1.00	0.05	1.01	0.17.00	0.17 70	947.96	948.38	
	B2	0.05	0.65	1 1	1.00	5.0	1.32	10.32	6.72		377.00	0.50	8	7.45	1.77	4.21	4.76	1.05	040.00	946.38	944.10	945.85	1.56	0.40	1.00	0.35	1.91	947.96	947.76	0.47.00		
SE Roof Drain	C2	0.65	0.65	0.90	1.00	5.0 5.0	0.75	10.32	6.72		282.00	1.00	10	10.53	1.77	5.96	6.31	1.05	949.88	946.38	943.16	944.67	1.17	0.40	1.00	0.62	1.78	947.96	946.45	947.96	948.38	
		0.65	0.00		1.00	-	0.75	10.32	6.72		282.00	1.00	10	10.55	1.77	5.90	0.31	1.05	052.00	940.30	943.10	944.07	1.1/	0.40	1.00	0.02	1.70	947.90	940.40	051.00		
NE Roof Drain	D3	0.65	0 65		1.00	5.0 5.0	0.51	10.32	6.72 6.72		194.00	1.00	10	10 53	1.77	5.96	6.31	1.05	953.88	950.38	948.04	949.55	0.80	0.40	1.00	0.62	1.42	951.96	950.97	951.96	952.38	
	1 03		0.00	0.90	1.00	5.0	0.51	10.32	0.72		194.00	1.00	10	10.00	1.77	5.90	0.01	C		900.00	J 940.04	949.00	0.60	0.40	1.00	0.62	1.42	921.90	920.97			

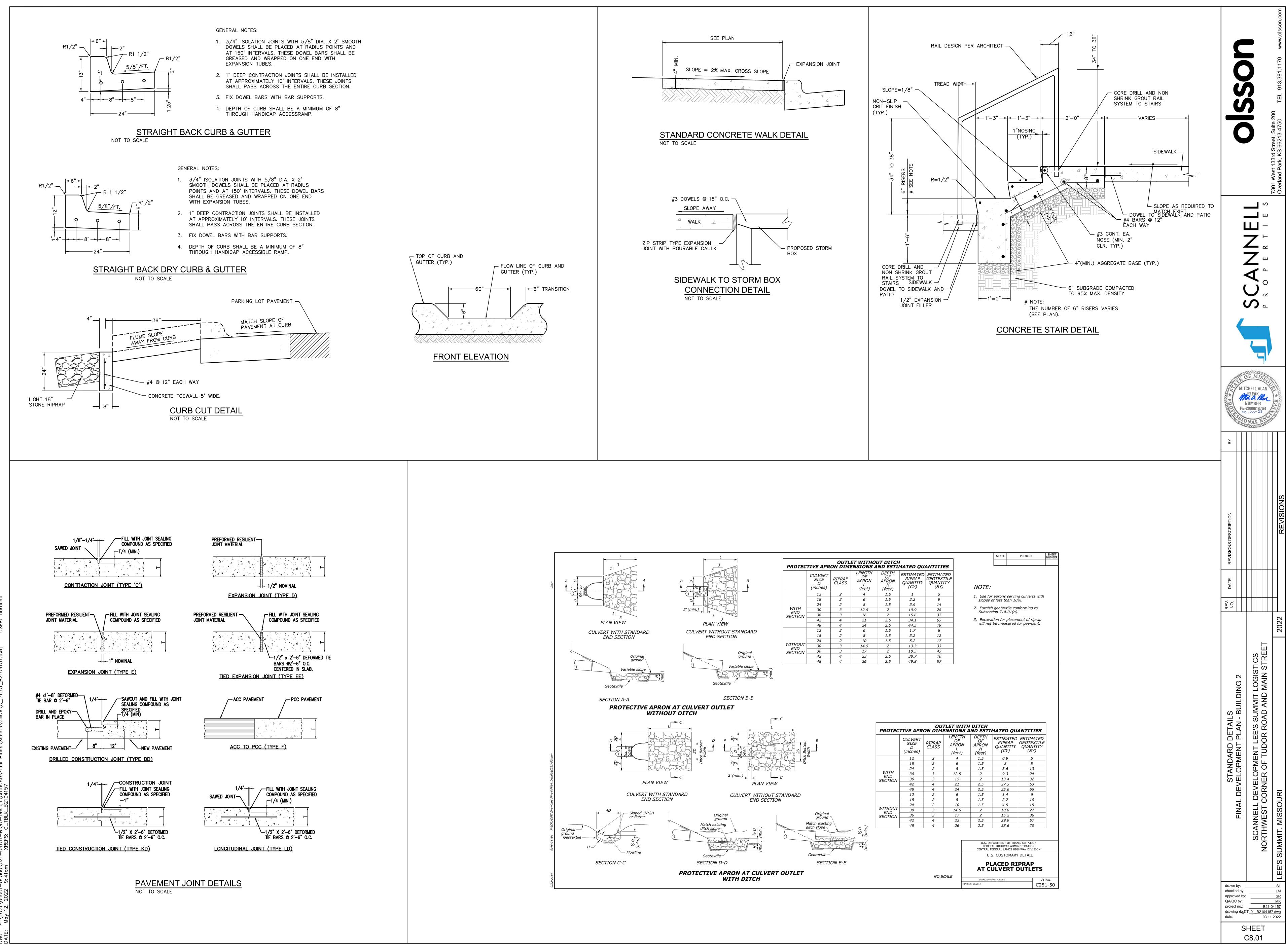
STORM SEWER PIPE AND STRUCTURE TABLE - 100 YEAR

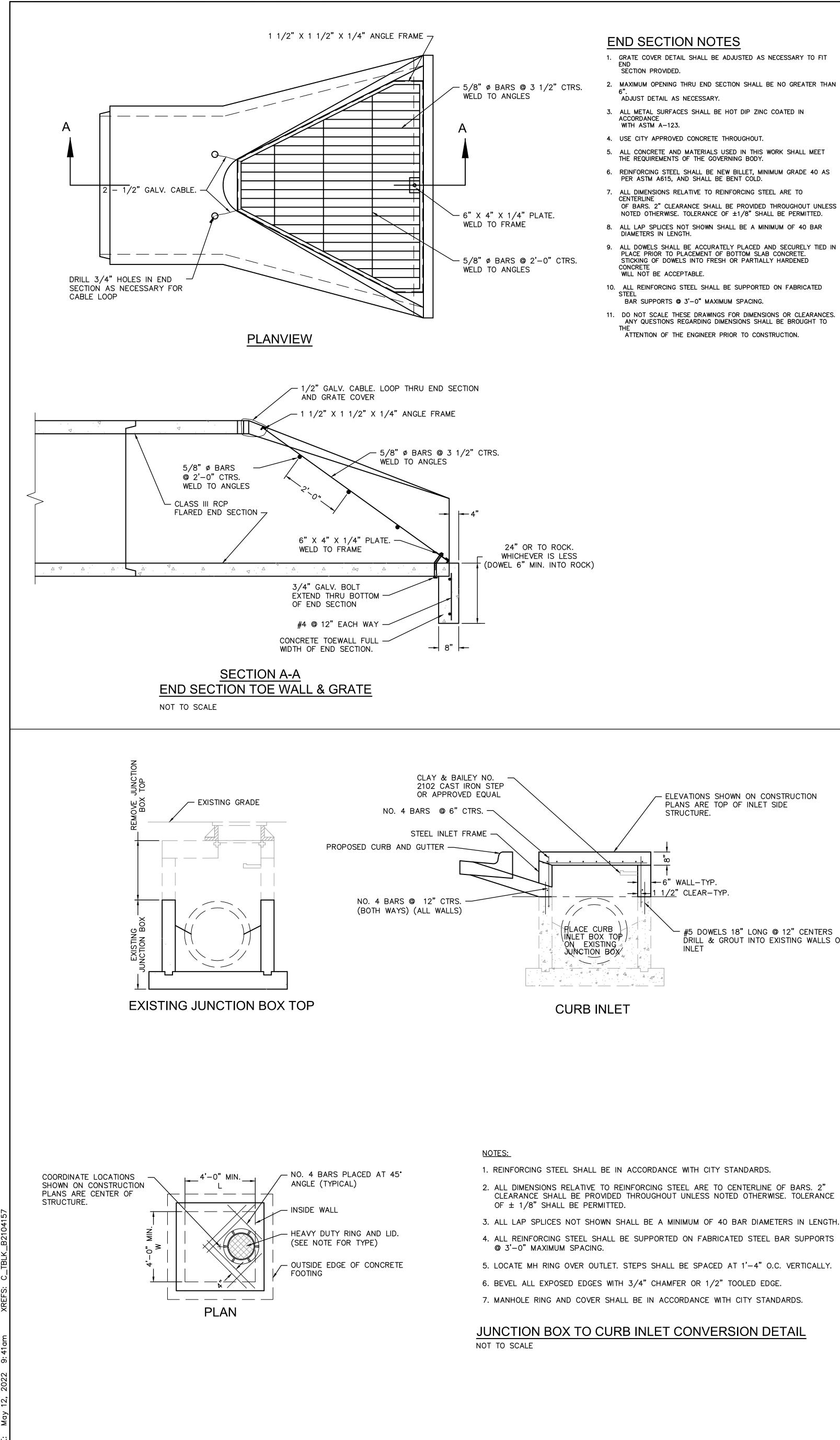
	drawn by: checked by approved b QA/QC by: project no.: drawing <b>6</b> <u>o</u> date:	STORM CALCULATIONS FINAL DEVELOPMENT PLAN - BUILDING 2	REV. DATE NO.	REVISIONS DESCRIPTION	ABY NAME AND ADDRESS AND ADDRESS ADDRE	A STE	
SHEET C7.07	y:E E \$TM <u>02_B210</u>	SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS			TCHELL ALA PLEAK NUMBER 5-2009018764 ONAL E		うのう
	<u>SL</u> LM <u>SR</u> <u>MK</u> 321-04157 4157.dwg 3.11.2022	LEE'S SUMMIT, MISSOURI	2022	REVISIONS	x ***		7301 West 133rd Street, Suite 200 Overland Park, KS 66213-4750 TEL 913.381.1170 www.olsson.com

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nments	









### END SECTION NOTES

- 1. GRATE COVER DETAIL SHALL BE ADJUSTED AS NECESSARY TO FIT SECTION PROVIDED.
- 2. MAXIMUM OPENING THRU END SECTION SHALL BE NO GREATER THAN ADJUST DETAIL AS NECESSARY.
- 3. ALL METAL SURFACES SHALL BE HOT DIP ZINC COATED IN
- ACCORDANCE WITH ASTM A-123.
- 4. USE CITY APPROVED CONCRETE THROUGHOUT.
- 5. ALL CONCRETE AND MATERIALS USED IN THIS WORK SHALL MEET THE REQUIREMENTS OF THE GOVERNING BODY.
- 6. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
- 7. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF  $\pm 1/8$ " SHALL BE PERMITTED.
- 8. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
- 9. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
- 10. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
- 11. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.

- ELEVATIONS SHOWN ON CONSTRUCTION PLANS ARE TOP OF INLET SIDE STRUCTURE. -6" WALL-TYP. <u>1 1/2</u>" CLEAR-TYP FLACE CURB INLET BOX TOP ON EXISTING JUNCTION BOX  $\sim$ 

**CURB INLET** 

#5 DOWELS 18" LONG @ 12" CENTERS DRILL & GROUT INTO EXISTING WALLS OF

NOTE: STEEL INLET FRAME (6" THROAT) -LIP OF CURB -3-#4 BARS SHALL BE PLACED SAME -AS CURB AND GUTTER REINFORCING 1" GALVANIZED HARDWARE CLOTH AND FILTER FABRIC (TERRATEX SD OR APPROVED EQUAL) SHALL BE PLACED IN FRONT OF 4" DRAIN PIPE PRIOR TO PLACING ROCK 15" IN ALL DIRECTIONS. 2-4" DRAIN PIPES (LOCATE TOP OF

8" MIN. LOW PERMEABLE SOIL -

REINFORCED SOIL APPROXIMATE LIMITS OF EXCAVATION RETAINED SOIL 4" PERFORATED PVC DRAINAGE TILE

DIM PER ENGINEERED PLANS BY CONTRACTOR

**|-−−**1'−6" **-−−**| DRAIN PIPE BELOW ASPHALT BASE) #4 BARS @ 12" CENTERS -(BOTH WAYS) (ALL WAYS) CONCRETE FOOTING

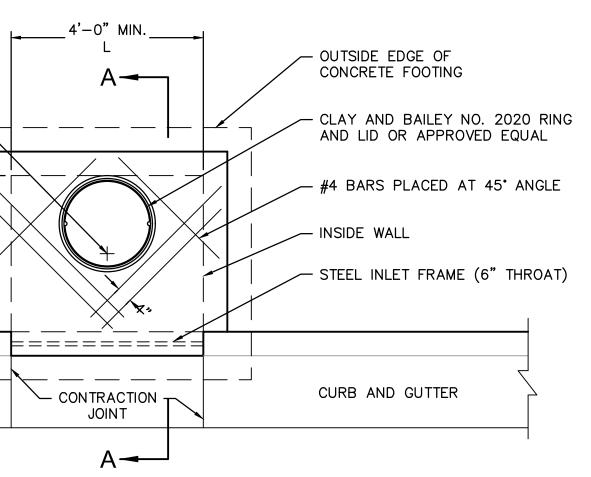
TRANSITION CURB AND GUTTER TO MATCH PROPOSED CURB INLET IN 3' (TYPICAL BOTH SIDES)

ELEVATION AND

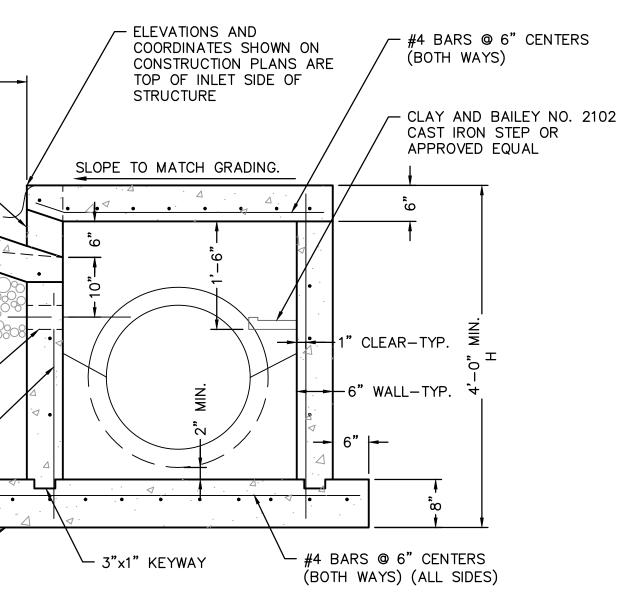
COORDINATES SHOWN ON

CENTER OF STRUCTURE

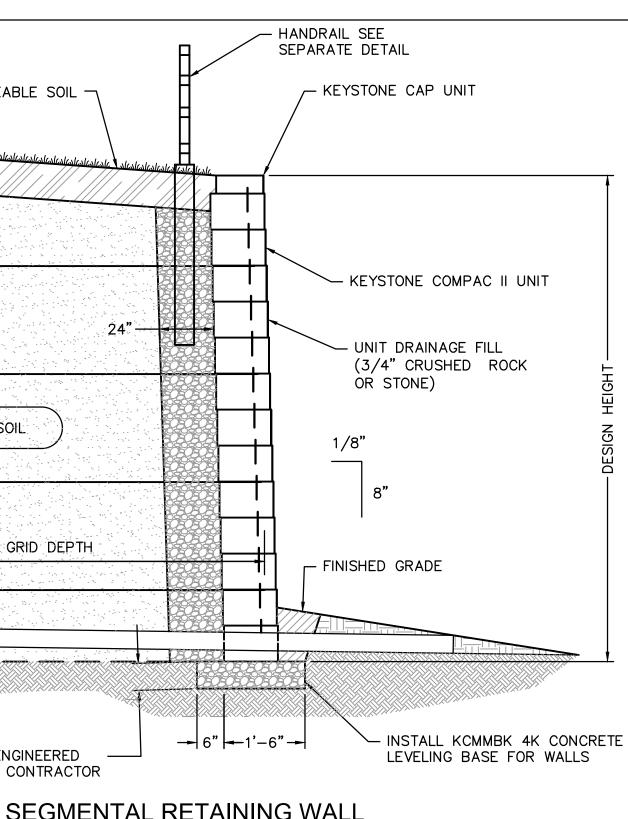
CONSTRUCTION PLANS ARE







**SECTION A-A** NON-SETBACK CURB INLET NOT TO SCALE



SEGMENTAL RETAINING WALL NOT TO SCALE

### NON-SETBACK CURB INLET NOTES

- 1. USE CITY APPROVED CONCRETE THROUGHOUT.

- 4. EXPANSION JOINTS SHALL BE EITHER HOT OR COLD POURED JOINT
- SPACED AT 1'-4" O.C. VERTICALLY.
- 7. BEVEL ALL EXPOSED EDGES WITH TRIANGULAR MOLDING.
- INLETS SHALL BE LEVEL.
- DRAWINGS SHALL BE APPROVED BY THE DESIGN ENGINEER.
- ASTM A615, AND SHALL BE BENT COLD.
- OTHERWISE. TOLERANCE OF  $\pm 1/8$ " SHALL BE PERMITTED.
- 12. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
- ACCEPTABLE.
- BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
- QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
- CURING COMPOUND.
- CURB CONSTRUCTION, OR AS DIRECTED BY THE CITY ENGINEER.
- STANDARDS.
- OF THE MATERIAL SPECIFIED PER CITY STANDARDS.
- THE CITY ENGINEER.

# **RETAINING WALL NOTES**

THE CONTRACTOR.

ENGINEER REGISTERED IN THE STATE OF MISSOURI.

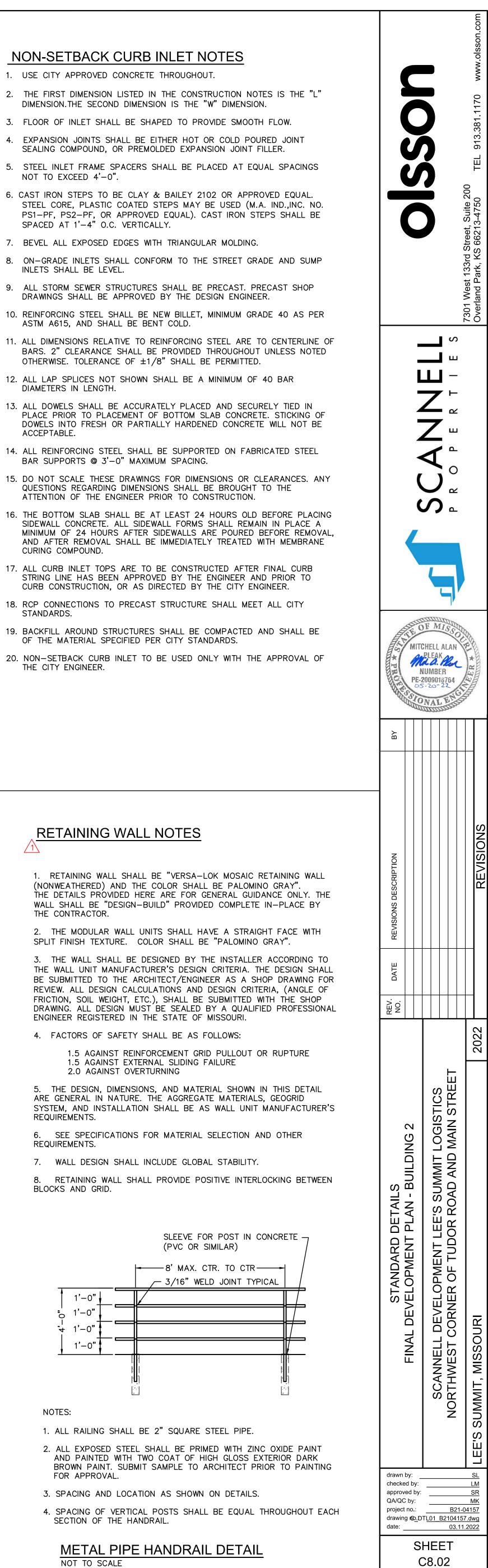
- 4. FACTORS OF SAFETY SHALL BE AS FOLLOWS:
  - 1.5 AGAINST EXTERNAL SLIDING FAILURE

REQUIREMENTS.

REQUIREMENTS.

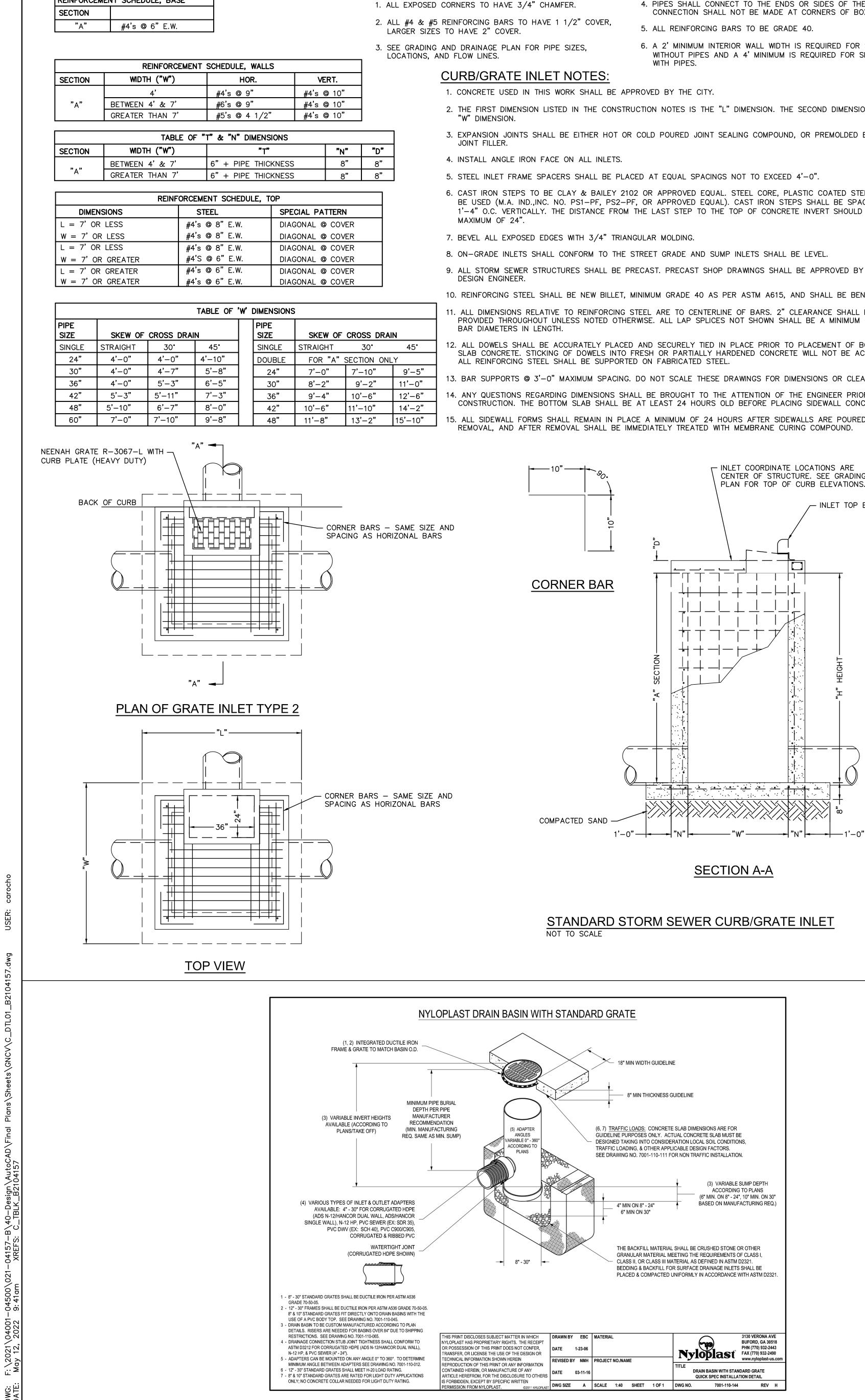
7. WALL DESIGN SHALL INCLUDE GLOBAL STABILITY.

BLOCKS AND GRID.



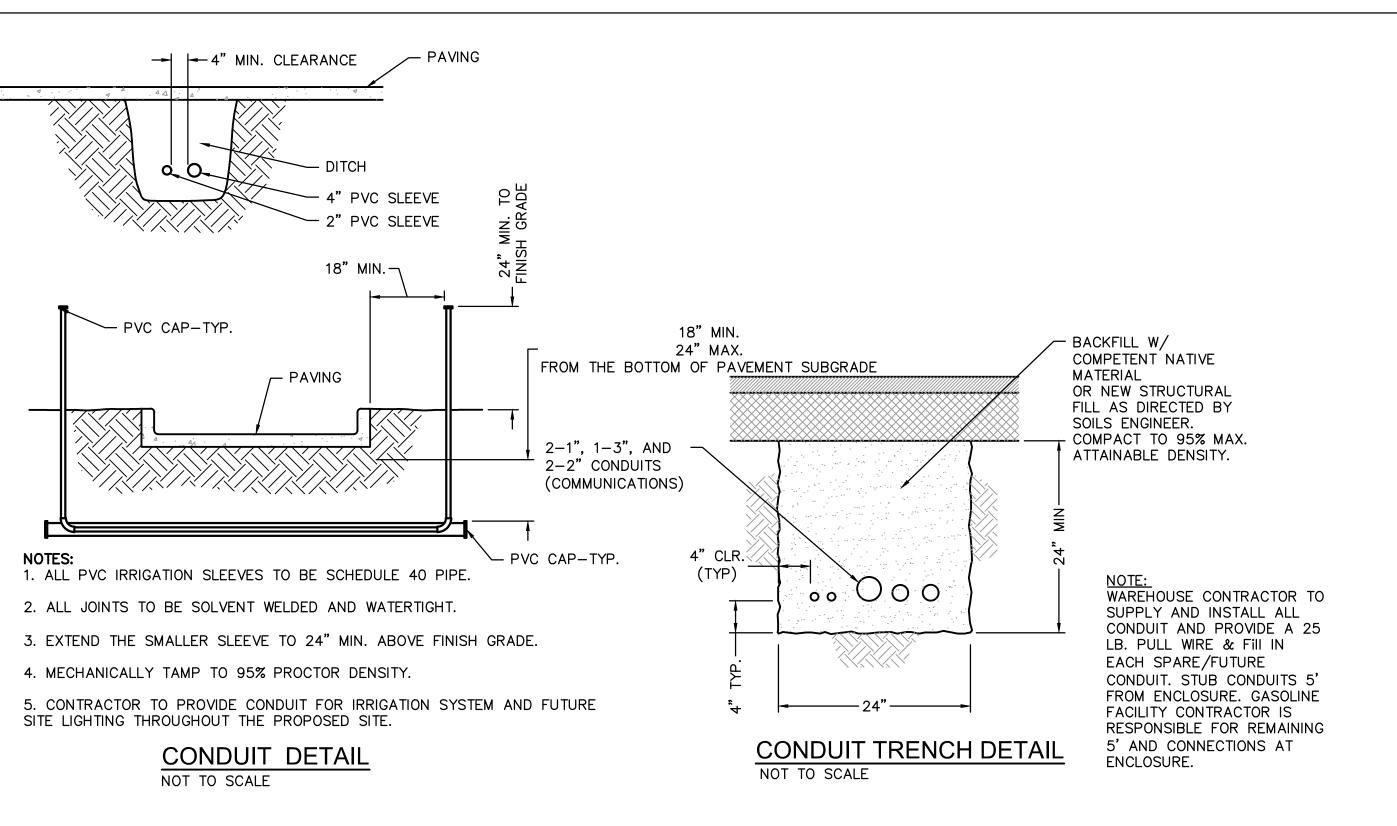
NOTES:

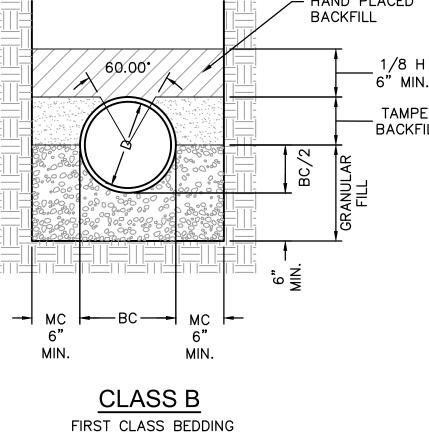
- 1. ALL RAILING SHALL BE 2" SQUARE STEEL PIPE.
- FOR APPROVAL.

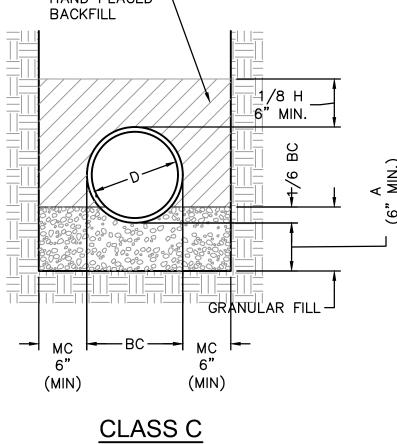


REINFORCEMENT SCHEDULE, BASE

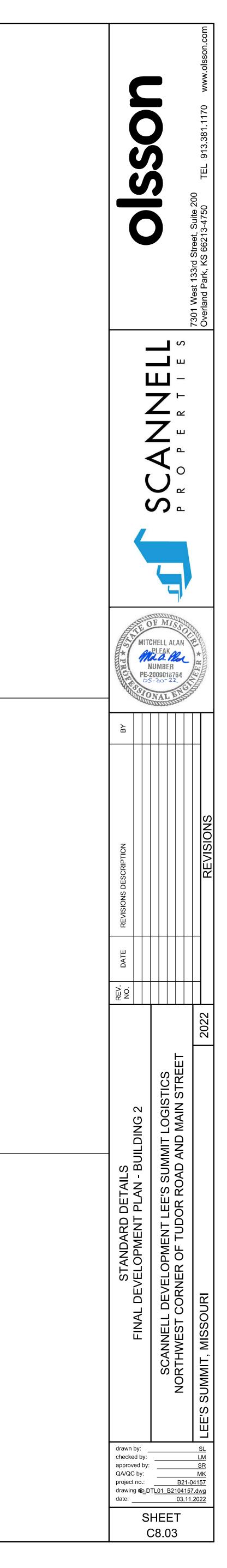
GENERAL NO						
" CHAMFER. HAVE 1 1/2" COVER,	4. PIPES SHALL CONNECT TO THE ENDS OR SIDES OF THE INLET. CONNECTION SHALL NOT BE MADE AT CORNERS OF BOX.					
	5. ALL REINFORCING BARS TO BE GRADE 40.					
OR PIPE SIZES,	6. A 2' MINIMUM INTERIOR WALL WIDTH IS REQUIRED FOR SIDES WITHOUT PIPES AND A 4' MINIMUM IS REQUIRED FOR SIDES				$\frac{\text{LEGEND}}{\text{BC} = \text{OUTSIDE DIAMETER OF PIPE}}$	
NLET NOTES:	WITH PIPES.	TABLE OF FIL	LL DEPTHS B	ELOW PIPE	H = BACKFILL COVER ABOVE TOP OF PIPE	
	APPROVED BY THE CITY.				D = NOMINAL PIPE DIAMETER	
ON LISTED IN THE CONS	TRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE	D A	"A" MIN.	"A" MIN. IN		
SHALL BE EITHER HOT	OR COLD POURED JOINT SEALING COMPOUND, OR PREMOLDED EXPANSION			ROCK	MC = MINIMUM SIDEWALL CLEARANCE (SEE TABLE	E)
		27" & SMALLER	6"	6"		HAND PLACED BACKFILL
N FACE ON ALL INLETS.	ACED AT EQUAL SPACINGS NOT TO EXCEED 4'-0".	30"TO 66"	6"	9"	HAND PLACED	
	2102 OR APPROVED EQUAL. STEEL CORE, PLASTIC COATED STEPS MAY	66" & LARGER	6"	12"	60.00 1/8 н	
,INC. NO. PS1-PF, PS2-	-PF, OR APPROVED EQUAL). CAST IRON STEPS SHALL BE SPACED AT M THE LAST STEP TO THE TOP OF CONCRETE INVERT SHOULD BE A				6" MIN. TAMPED	
D EDGES WITH 3/4" TRI	ANGULAR MOLDING.	TABLE C	OF TRENCH V	VIDTHS		
SHALL CONFORM TO TH	E STREET GRADE AND SUMP INLETS SHALL BE LEVEL.					
STRUCTURES SHALL BE	PRECAST. PRECAST SHOP DRAWINGS SHALL BE APPROVED BY THE	PIPE SIZE (INCHES)	MINIMUM TRENCH WIDTH (INCHES)	MINIMUM SIDE WALL CLEARANCE (INCHES)		
L SHALL BE NEW BILLET	, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.					
IOUT UNLESS NOTED OT	G STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE HERWISE. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40	18	35	6	→ MC → BC → MC →	
LENGTH.	ED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM	21	39	6 1/2	6" 6" MIN. MIN.	6" 6" (MIN) (MIN)
TICKING OF DOWELS INT	D FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.	24	44	7		
3'-0" MAXIMUM SPACIN	IG. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES.	27	49	8	CLASS B FIRST CLASS BEDDING	CLASS C ORDINARY BEDDING
	HALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE.	30	54	8 1/2	BEDDING NOTES	
MS SHALL REMAIN IN P	LACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE	33	58	9	1. GRANULAR FILL TO BE CRUSHED STONE OR PEA	
ER REMOVAL SHALL BE	IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.	36	64	10	PASSING 1/2" SIEVE AND NOT LESS THAN 95% T PLACED IN NOT MORE THEN 6" LAYERS AND COM	
		42	73	11	2. TAMPED BACKFILL SHALL BE FINELY DIVIDED JOB DEBRIS, ORGANIC MATERIAL AND STONES, COMPA	
	CENTER OF STRUCTURE. SEE GRADING	48	83	12 1/2	DETERMINED BY AASHTO STANDARD METHOD T-9 SUBSTITUTED FOR ALL OR PART OF TAMPED BAC	99. GRANULAR FILL MAY BE
	PLAN FOR TOP OF CURB ELEVATIONS.	54	92	13 1/2	3. HAND PLACED BACKFILL SHALL BE FINELY DIVIDE STONES.	ED MATERIAL FREE FROM DEBRIS AND
	- INLET TOP ELEVATION	60	102	15	STURES.	
		66	109	15		
CORNER BAR					STORM SEWER TRENCH DETAIL	
					NOT TO SCALE	-
				CLEARANCE F	PAVING	
				<		
			do la		Ш	
				4" PVC SLEEV		
			× / × × / × × / ×		s S S H S S S S S S S S S S S S S	

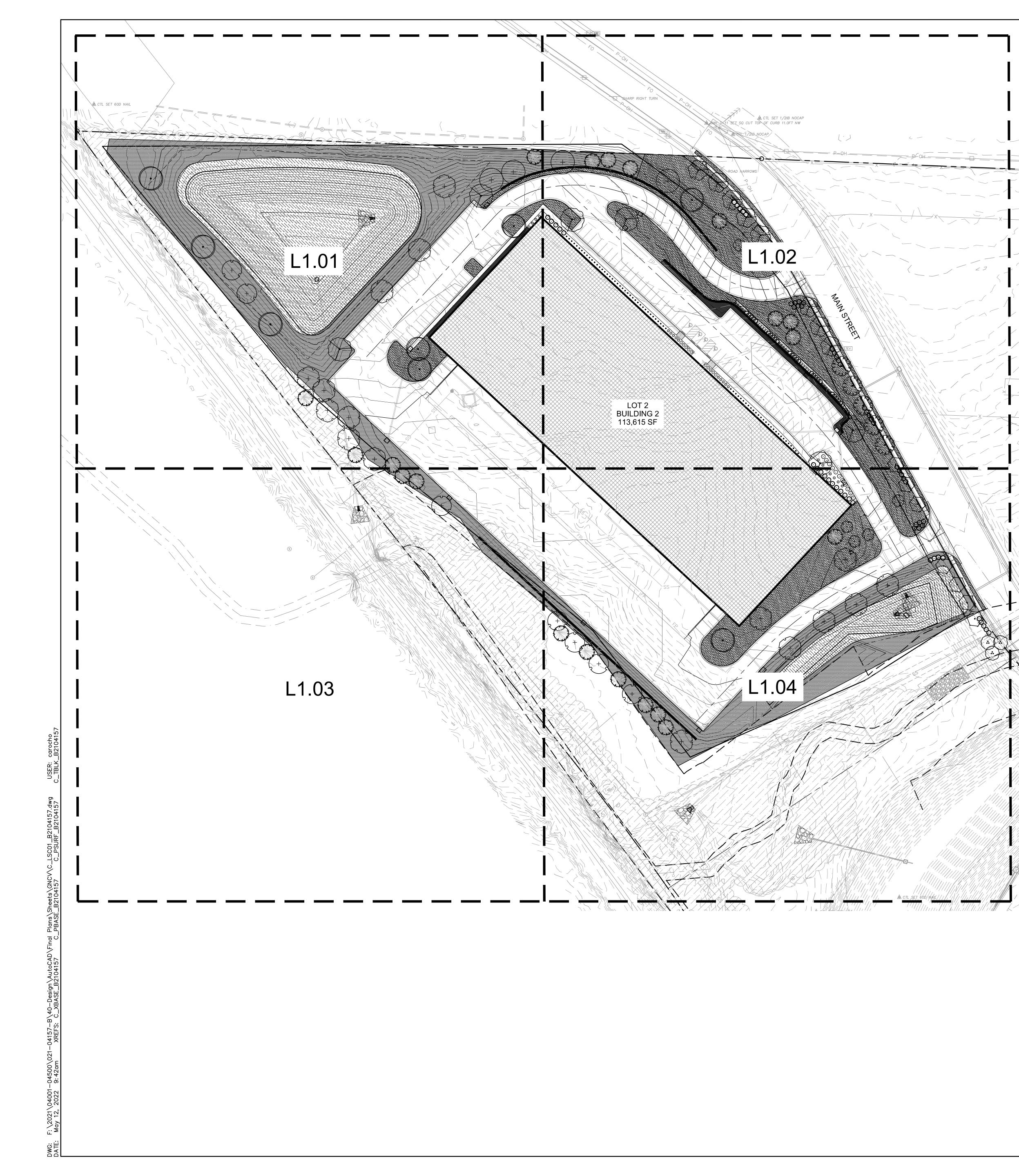






- TO BE VEL
- AND





# LANDSCAPE CALCULATIONS - LOT 2

OPEN YARD AREAS 1 TREE AND 2 SHRUBS PER 5,000 SF OF TOTAL LOT AREA EXCLUDING BUILDING FOOTPRINT AREA AND TRACTS. 315,719 SF /5,000 SF 63.15 TREES REQUIRED 63 TREES PROVIDED \*\*SEE PLAN FOR EXISTING TREE MASSES TO REMAIN 126.31 SHRUBS REQUIRED 126 SHRUBS PROVIDED

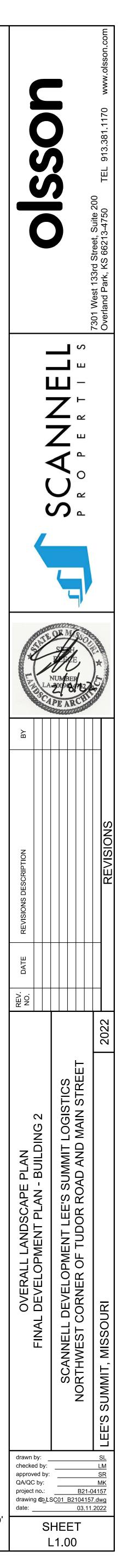
STREET FRONTAGE REQUIREMENT

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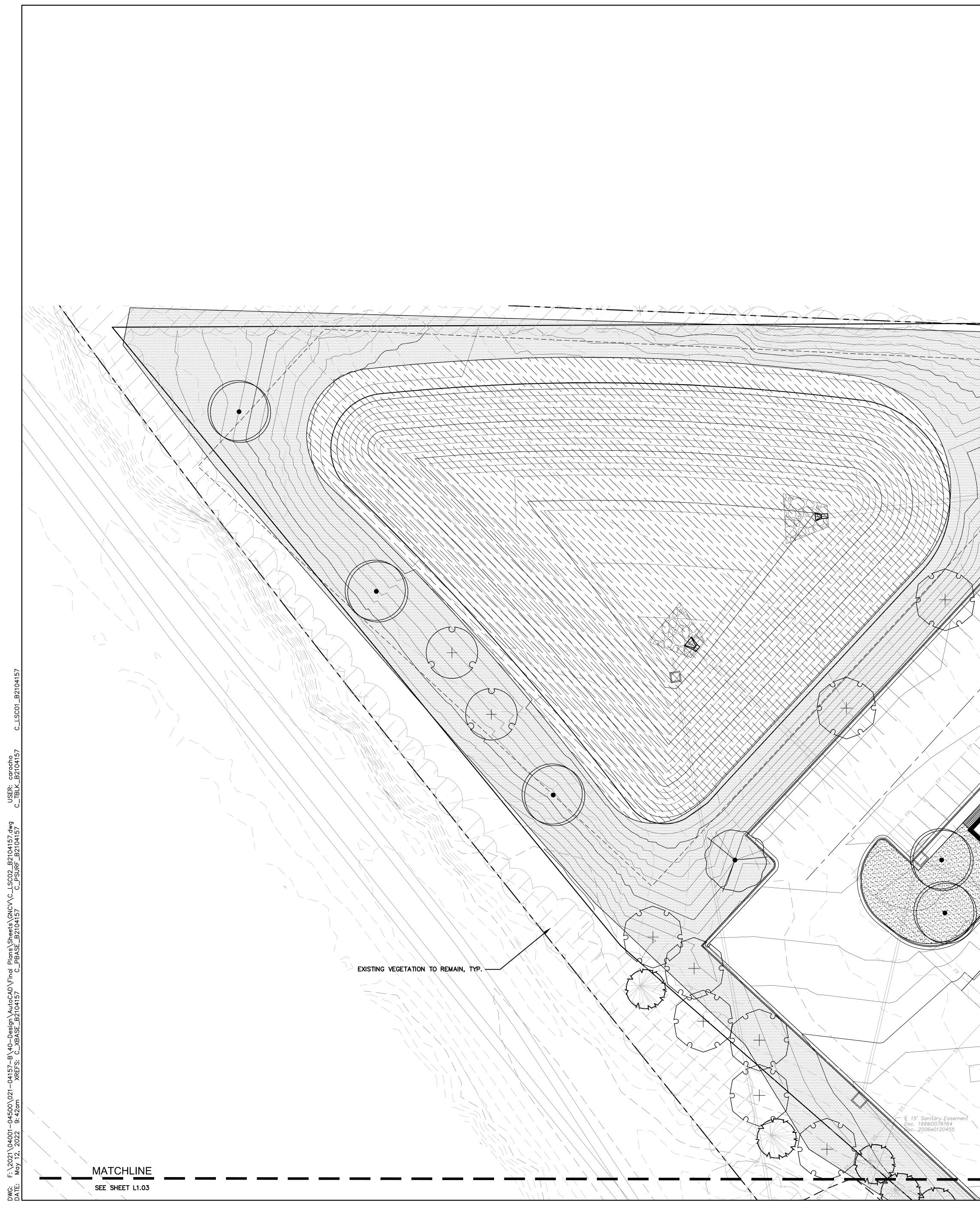
MAIN STREET (SOUTH SIDE) 708 LF

1 TREE / 30' OF STREET FRONTAGE 23.6 TREES REQUIRED 23 TREES PROVIDED 1 SHRUB PER 20' OF STREET FRONTAGE 35.4 SHRUBS REQUIRED 41 SHRUBS PROVIDED

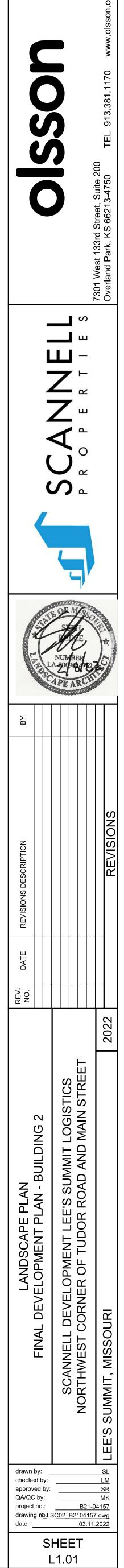
PLANT SCHEDULE	BOTANICAL / COMMON NAME	SIZE	CALIPER		QTY
+	EUCOMMIA ULMOIDES HARDY RUBBER TREE	В & В	3"		7
	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' SHADEMASTER LOCUST	В & В	3"		6
	PLATANUS X ACERIFOLIA 'EXCLAMATION' TM EXCLAMATION LONDON PLANE TREE	В & В	3"		16
$\bigcirc$	QUERCUS BICOLOR SWAMP WHITE OAK	В & В	3"		8
+	QUERCUS MACROCARPA BURR OAK	В & В	3"		4
$\bigcirc$	TILIA AMERICANA 'BOULEVARD' BOULEVARD LINDEN	В & В	3"		9
E. M	ULMUS PROPINQUA 'EMERALD SUNSHINE' EMERALD SUNSHINE ELM	В & В	3"		5
•	ZELKOVA SERRATA 'MUSASHINO' SAWLEAF ZELKOVA	В & В	3"		7
EVERGREEN TREES	BOTANICAL / COMMON NAME	SIZE	CALIPER		QTY
	PICEA ABIES NORWAY SPRUCE	B&B, 8' HT.			20
ORNAMENTAL TREES	BOTANICAL / COMMON NAME	SIZE	CALIPER		QTY
	CERCIS CANADENSIS EASTERN REDBUD	В & В	3"		3
	MALUS X 'PRAIRIFIRE' PRAIRIFIRE CRABAPPLE	В & В	3"		5
SHRUBS	BOTANICAL / COMMON NAME	SIZE			
$\odot$	BUXUS X 'GREEN VELVET' BOXWOOD	5 GAL			10
1075 	CHASMANTHIUM LATIFOLIUM NORTHERN SEA OATS	1 GAL			68
$\odot$	CORNUS STOLONIFERA 'FARROW' TM ARCTIC FIRE RED TWIG DOGWOOD	5 GAL			21
&	DIERVILLA RIVULARIS 'KODIAK ORANGE' KODIAK ORANGE BUSH-HONEYSUCKLE	5 GAL			15
SUMUVUSH I I I I I I I I I I I I I I I I I I I	JUNIPERUS CHINENSIS 'SEA GREEN' SEA GREEN JUNIPER	5 GAL			92
$\odot$	JUNIPERUS SABINA 'BUFFALO' BUFFALO JUNIPER	5 GAL			11
	VIBURNUM NUDUM 'WINTERTHUR' WINTERTHUR VIBURNUM	5 GAL			15
GROUND COVERS	BOTANICAL / COMMON NAME	CONT		SPACING	
	FESTUCA TURF TYPE TALL FESCUE BLEND	SEED			79,385 SF
	FESTUCA TURF TYPE TALL FESCUE BLEND	SOD			52,655 SF
	RIVER ROCK SEE DETAILS FOR INFORMATION	SF			2,963 SF
NATIVE VEGETATION	BOTANICAL / COMMON NAME	CONT		SPACING	
	PANICUM VIRGATUM SWITCH GRASS	SEED			56,706 SF



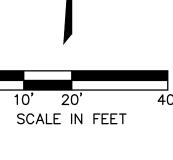


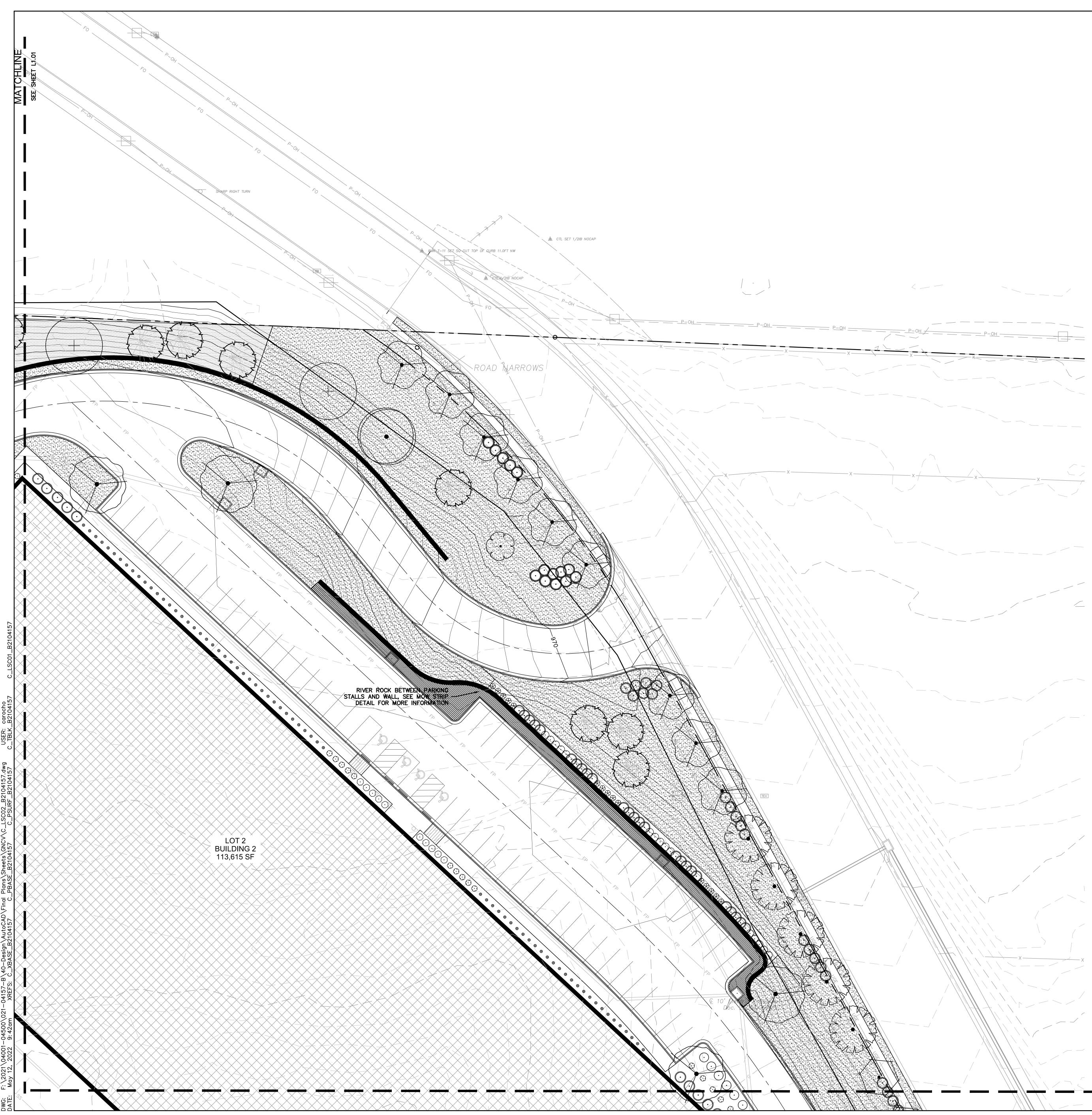


	PLANT SCHEDULE		SIZE	CALIPER	QTY
			В & В	3"	2
		GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' SHADEMASTER LOCUST	В & В	3"	2
		PLATANUS X ACERIFOLIA 'EXCLAMATION' TM EXCLAMATION LONDON PLANE TREE	В & В	3"	9
	$\bigcirc$	QUERCUS BICOLOR SWAMP WHITE OAK	В & В	3"	6
		QUERCUS MACROCARPA BURR OAK	В & В	3"	2
	EVERGREEN TREES	BOTANICAL / COMMON NAME PICEA ABIES		CALIPER	QTY
	SHRUBS	NORWAY SPRUCE BOTANICAL / COMMON NAME	B&B, 8' HT. SIZE		4
	GROUND COVERS	CORNUS STOLONIFERA 'FARROW' TM ARCTIC FIRE RED TWIG DOGWOOD BOTANICAL / COMMON NAME	5 GAL CONT		4
		FESTUCA	SOD		
		RIVER ROCK	SF		
	CHL	SEE SHEET L1.0 FOR COMPLETE PLAN SIZE AND TOTAL QUANTITIES. NOTE: ALL EQUIPMENT MUST BE SCREENED WH FIELD ADJUSTMENTS MAY BE NECESSARY TO A EQUIPMENT AND LANDSCAPE. COORDINATE WITH ADEQUATE SCREENING. MUST MEET CITY REQUI	HETHER OR NOT ACCOMMODATE S H LANDSCAPE A	INDICATED OF	1S
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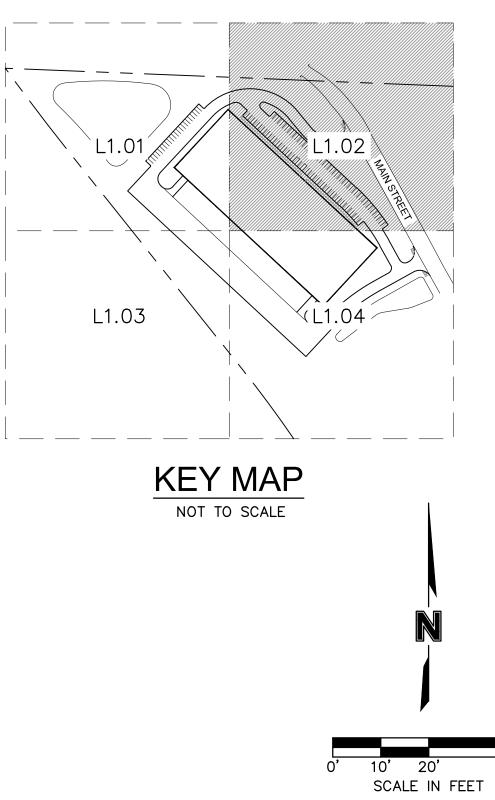




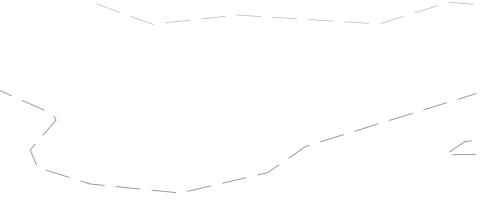


DECIDUOUS TREES	BOTANICAL / COMMON NAME	SIZE	CALIPER	
	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' SHADEMASTER LOCUST	В & В	3"	
$\bigcirc$	QUERCUS BICOLOR SWAMP WHITE OAK	В & В	3"	
+	QUERCUS MACROCARPA BURR OAK	В&В	3"	
	TILIA AMERICANA 'BOULEVARD' BOULEVARD LINDEN	В & В	3"	
	ULMUS PROPINQUA 'EMERALD SUNSHINE' EMERALD SUNSHINE ELM	В&В	3"	
$\overline{\cdot}$	ZELKOVA SERRATA 'MUSASHINO' SAWLEAF ZELKOVA	В&В	3"	
EVERGREEN TREES	BOTANICAL / COMMON NAME	SIZE	CALIPER	
	PICEA ABIES NORWAY SPRUCE	B&B, 8' HT.		
ORNAMENTAL TREES	BOTANICAL / COMMON NAME	SIZE	CALIPER	
$\left( \cdot \right)$	MALUS X 'PRAIRIFIRE' PRAIRIFIRE CRABAPPLE	В & В	3"	
SHRUBS	BOTANICAL / COMMON NAME	SIZE		
$\overline{\mathbf{\cdot}}$	BUXUS X 'GREEN VELVET' BOXWOOD	5 GAL		
	CHASMANTHIUM LATIFOLIUM NORTHERN SEA OATS	1 GAL		
$\bigcirc$	CORNUS STOLONIFERA 'FARROW' TM ARCTIC FIRE RED TWIG DOGWOOD	5 GAL		
$\bigotimes$	DIERVILLA RIVULARIS 'KODIAK ORANGE' KODIAK ORANGE BUSH-HONEYSUCKLE	5 GAL		
SUNVERSE IN THE STATE	JUNIPERUS CHINENSIS 'SEA GREEN' SEA GREEN JUNIPER	5 GAL		
$\odot$	JUNIPERUS SABINA 'BUFFALO' BUFFALO JUNIPER	5 GAL		
$\bigodot$	VIBURNUM NUDUM 'WINTERTHUR' WINTERTHUR VIBURNUM	5 GAL		
GROUND COVERS	BOTANICAL / COMMON NAME	CONT		
	FESTUCA TURF TYPE TALL FESCUE BLEND	SOD		
	RIVER ROCK	SF		

SEE SHEET L1.0 FOR COMPLETE PLANT SCHEDULE FOR SIZE AND TOTAL QUANTITIES. NOTE: ALL EQUIPMENT MUST BE SCREENED WHETHER OR NOT INDICATED ON PLANS. FIELD ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE SITE CONDITIONS EQUIPMENT AND LANDSCAPE. COORDINATE WITH LANDSCAPE ARCHITECT FOR ADEQUATE SCREENING. MUST MEET CITY REQUIREMENTS.

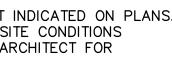


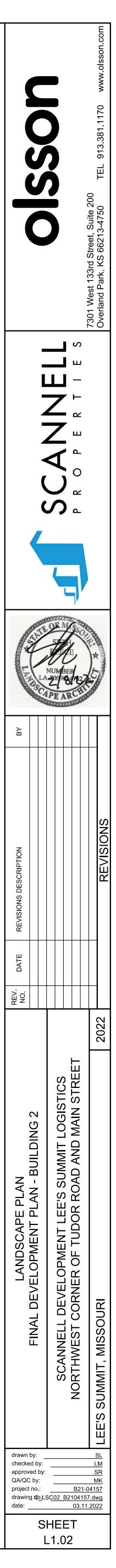


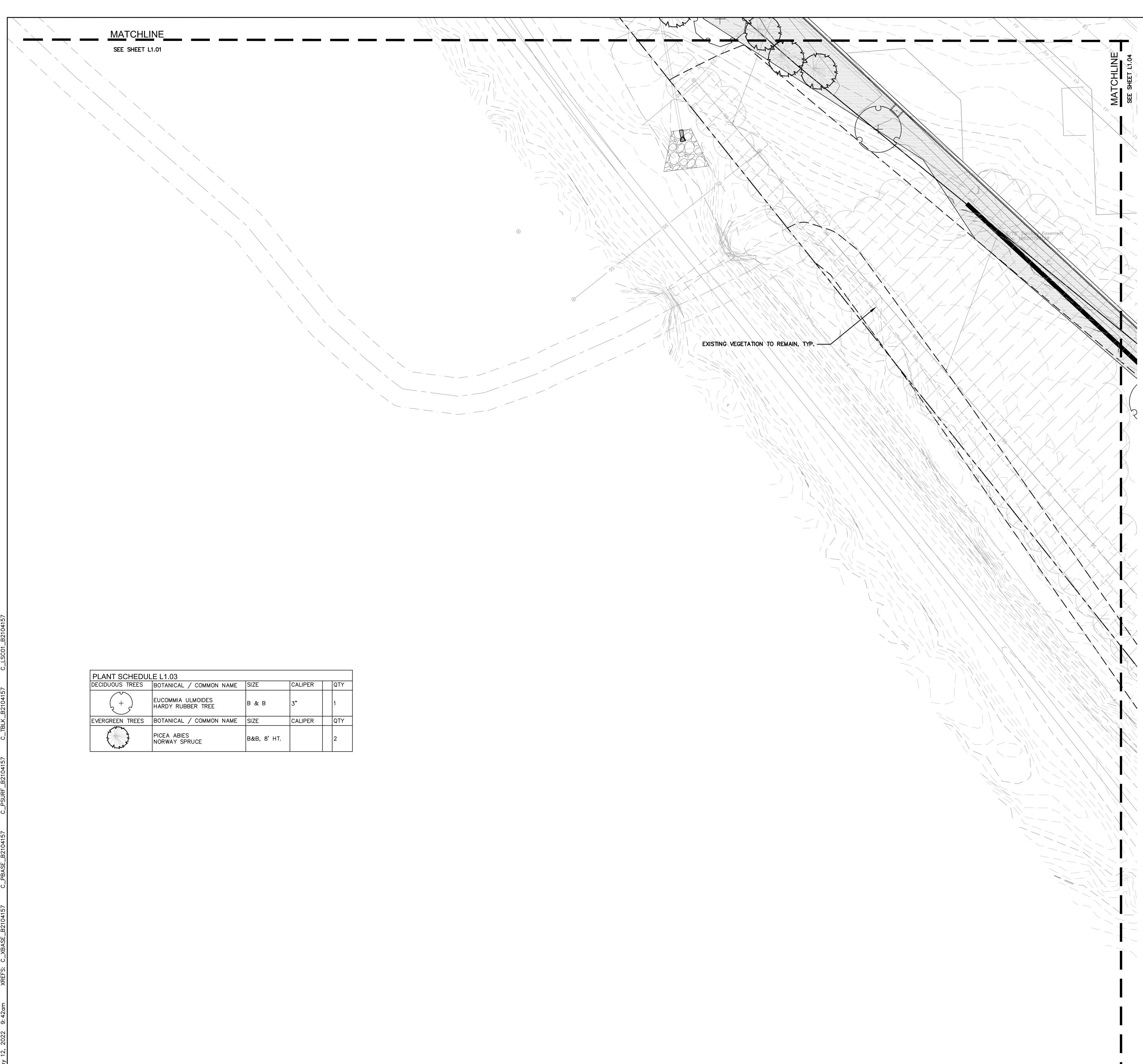




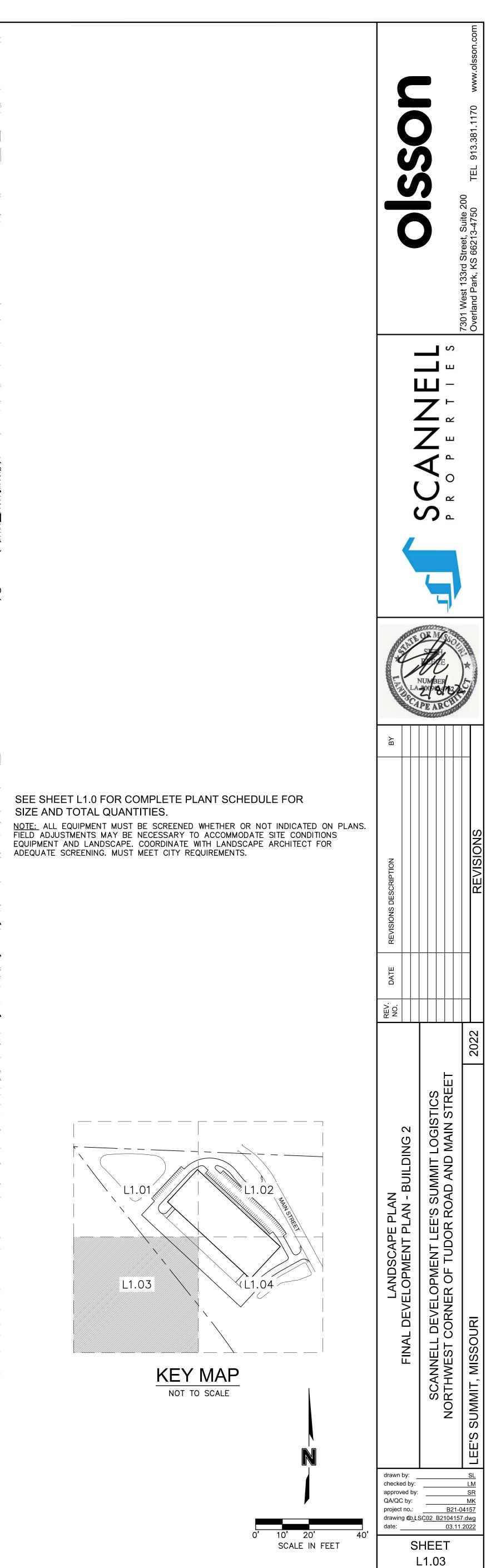








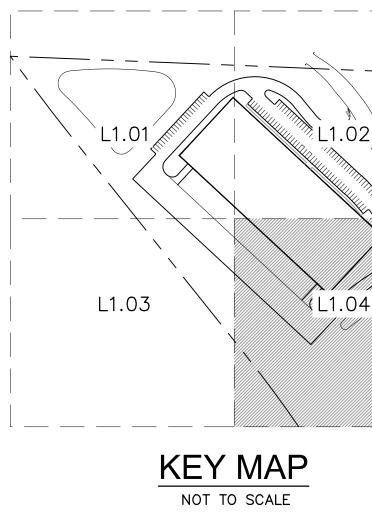
SEE SHEET L1.0 FOR COMPLETE PLANT SCHEDULE FOR SIZE AND TOTAL QUANTITIES.



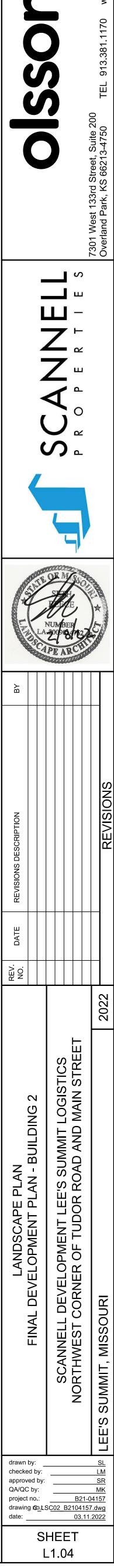


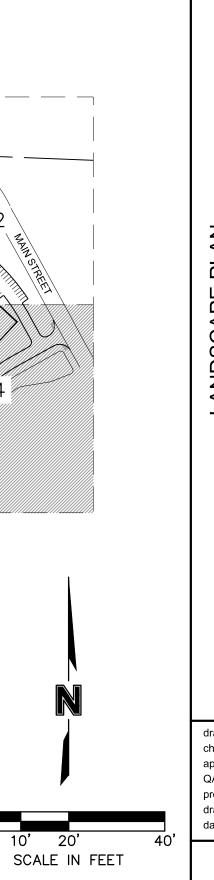
PLANT SCHEDULE				
DECIDUOUS TREES	BOTANICAL / COMMON NAME	SIZE	CALIPER	QTY
5+	EUCOMMIA ULMOIDES HARDY RUBBER TREE	В & В	3"	4
	PLATANUS X ACERIFOLIA 'EXCLAMATION' TM EXCLAMATION LONDON PLANE TREE	В & В	3"	7
$\bigcirc$	QUERCUS BICOLOR SWAMP WHITE OAK	В & В	3"	1
•	ZELKOVA SERRATA 'MUSASHINO' SAWLEAF ZELKOVA	В & В	3"	6
EVERGREEN TREES	BOTANICAL / COMMON NAME	SIZE	CALIPER	QTY
	PICEA ABIES NORWAY SPRUCE	B&B, 8' HT.		7
ORNAMENTAL TREES	BOTANICAL / COMMON NAME	SIZE	CALIPER	QTY
•	CERCIS CANADENSIS EASTERN REDBUD	В & В	3"	3
	MALUS X 'PRAIRIFIRE' PRAIRIFIRE CRABAPPLE	В&В	3"	4
SHRUBS	BOTANICAL / COMMON NAME	SIZE		
$\bigcirc$	CORNUS STOLONIFERA 'FARROW' TM ARCTIC FIRE RED TWIG DOGWOOD	5 GAL		5
NUNUVER AND	JUNIPERUS CHINENSIS 'SEA GREEN' SEA GREEN JUNIPER	5 GAL		28
$\odot$	JUNIPERUS SABINA 'BUFFALO' BUFFALO JUNIPER	5 GAL		7
GROUND COVERS	BOTANICAL / COMMON NAME	CONT		
	FESTUCA TURF TYPE TALL FESCUE BLEND	SOD		
NATIVE VEGETATION	BOTANICAL / COMMON NAME	CONT		
	PANICUM VIRGATUM SWITCH GRASS	SEED		

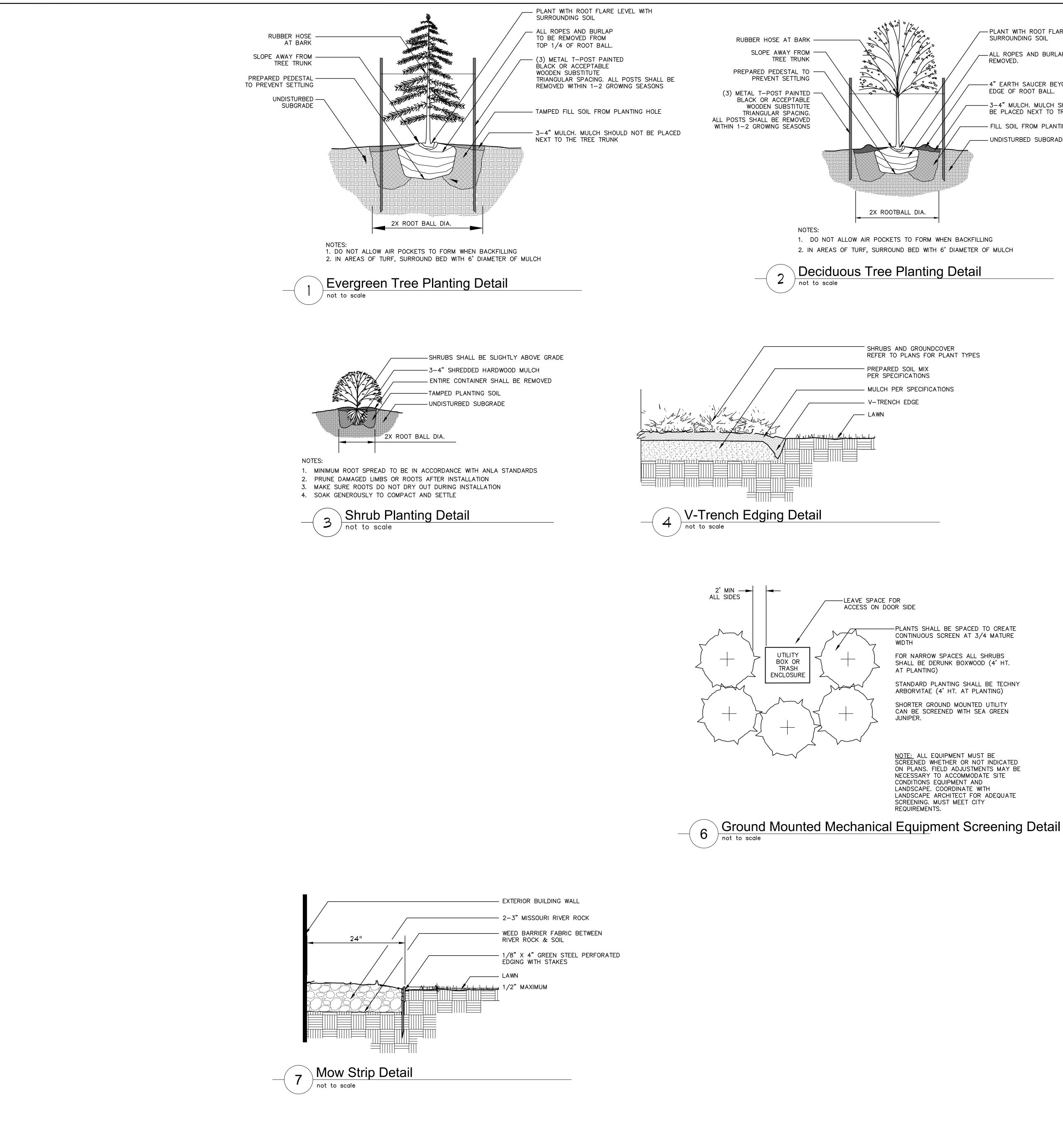
SEE SHEET L1.0 FOR COMPLETE PLANT SCHEDULE FOR SIZE AND TOTAL QUANTITIES. NOTE: ALL EQUIPMENT MUST BE SCREENED WHETHER OR NOT INDICATED ON PLANS. FIELD ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE SITE CONDITIONS EQUIPMENT AND LANDSCAPE. COORDINATE WITH LANDSCAPE ARCHITECT FOR ADEQUATE SCREENING. MUST MEET CITY REQUIREMENTS.











	- PLANT WITH ROOT FLARE LEVEL WITH SURROUNDING SOIL		
	— ALL ROPES AND BURLAP SHALL BE REMOVED.		ANTING NO
	— 4" EARTH SAUCER BEYOND EDGE OF ROOT BALL.	2.	LOCATE AND FLAC CONTRACTOR SHA DAMAGE TO SUCH
	— 3–4" MULCH. MULCH SHOULD NOT BE PLACED NEXT TO TREE TRUNK	3.	OWNER. PLANTS AND OTH OF THE CITY AND QUANTITIES TO CO
	— FILL SOIL FROM PLANTING HOLE — UNDISTURBED SUBGRADE	4.	PLAN IS SUBJECT CHANGES OR SUE THE LANDSCAPE
		5.	ALL PLANT MATER THE AMERICAN S <sup>-</sup> & LANDSCAPE AS REPRESENTATIVE SPECIFICATIONS.
		6.	ALL TREES SHALL SPECIFIED CALIPE GRADE.
ETS TO FORM WHEN BACKFILL DUND BED WITH 6' DIAMETER		7.	PLANTING OF TRE DURING EITHER TH PLANTING SEASON
Planting Detail		8.	CONTRACTOR SHA INSTALLATION. CC STAKING PRIOR T FIELD CONDITIONS BE APPROVED BY
		9.	THE LANDSCAPE INJURIOUS TO PL/ PLANTING MIX.
		10.	A PRE-EMERGENT INSTALLATION OF
S AND GROUNDCOVER TO PLANS FOR PLANT TYPES RED SOIL MIX		11.	BACKFILL ALL PLA PLANTING SOIL MI AND TWO (2) PAR COMPONENTS PRIM
PER SPECIFICATIONS		12.	ALL LANDSCAPE I MINIMUM OF 3-4'
NCH EDGE		13.	V-TRENCH LANDS SODDED AREAS.
		14.	ALL LANDSCAPE A IRRIGATION SYSTE IRRIGATION SYSTE
		15.	LANDSCAPE CONT UNTIL THE TIME T ACCEPTANCE OF DEFOLIATES (PRIC REPLACED.
		16.	THE CONTRACTOR BEGINNING AT TH PROMPTLY (AS PI
		SC	DDDING NC
		1.	ALL DISTURBED A MINIMUM OF 3 CI
		2.	ALL LAWN AREAS 85% MAXIMUM DE
		3.	THE ENTIRE SURF STONES, ROOTS,
FOR DOR SIDE — PLANTS SHALL BE SPACED CONTINUOUS SCREEN AT 3/		4.	SOD SHALL BE M ONE INCH (PLUS EXCLUDE TOP GR CUTTING IN THE SOD DAMAGED B BEFORE BEING IN
FOR NARROW SPACES ALL S SHALL BE DERUNK BOXWOOL	SHRUBS	5.	
AT PLANTING) STANDARD PLANTING SHALL	BE TECHNY	6.	MOISTEN PREPAR AND ALLOW SURF FERTILIZER IN TH
ARBORVITAE (4' HT. AT PLA SHORTER GROUND MOUNTED CAN BE SCREENED WITH SE	UTILITY	7.	OF NITROGEN PEI SOD SHALL BE C
JAN DE JUNEENED WITH SE		1	

### NOTE: ALL EQUIPMENT MUST BE SCREENED WHETHER OR NOT INDICATED ON PLANS. FIELD ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE SITE CONDITIONS EQUIPMENT AND LANDSCAPE. COORDINATE WITH LANDSCAPE ARCHITECT FOR ADEQUATE SCREENING. MUST MEET CITY REQUIREMENTS.

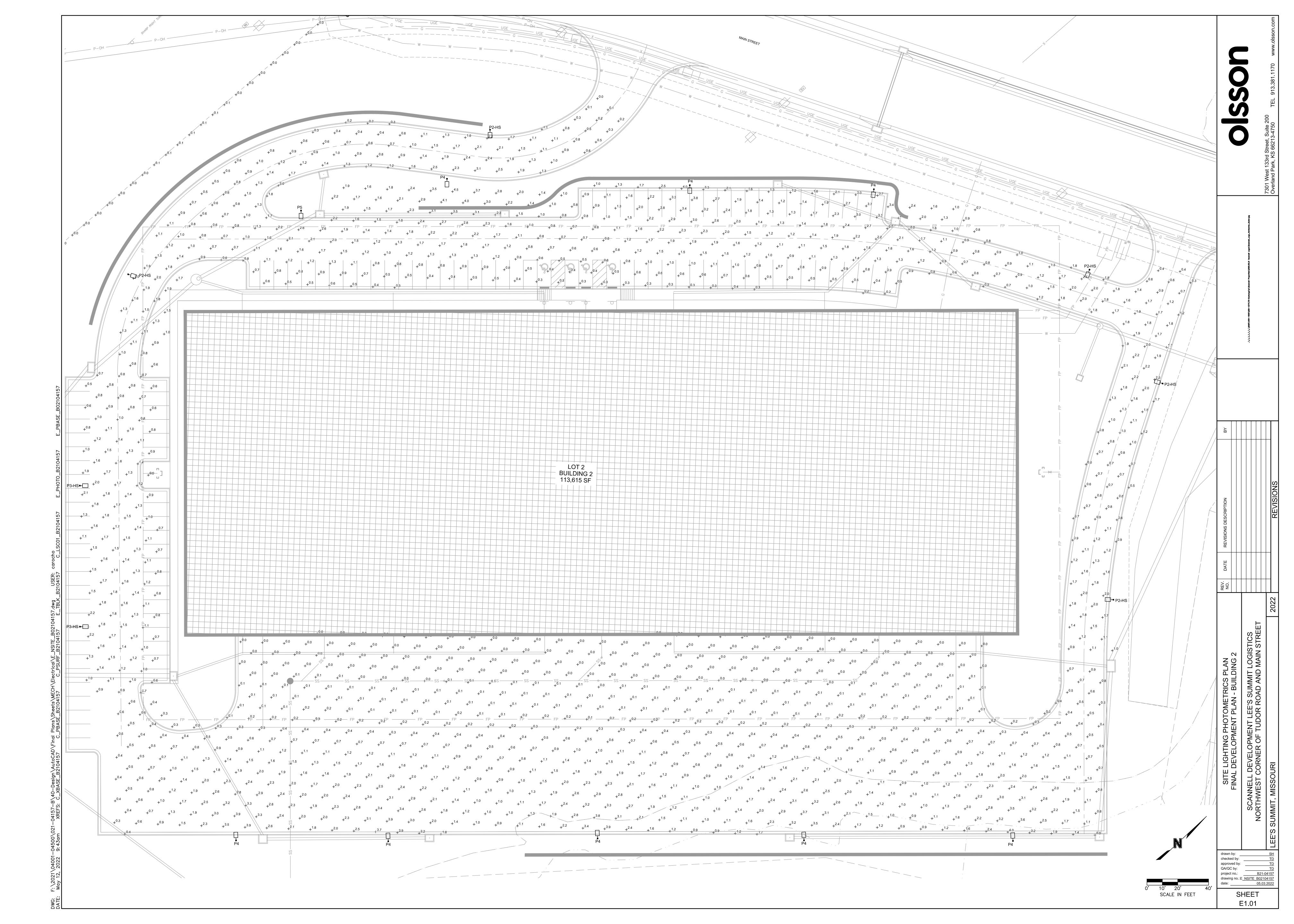
# OTES

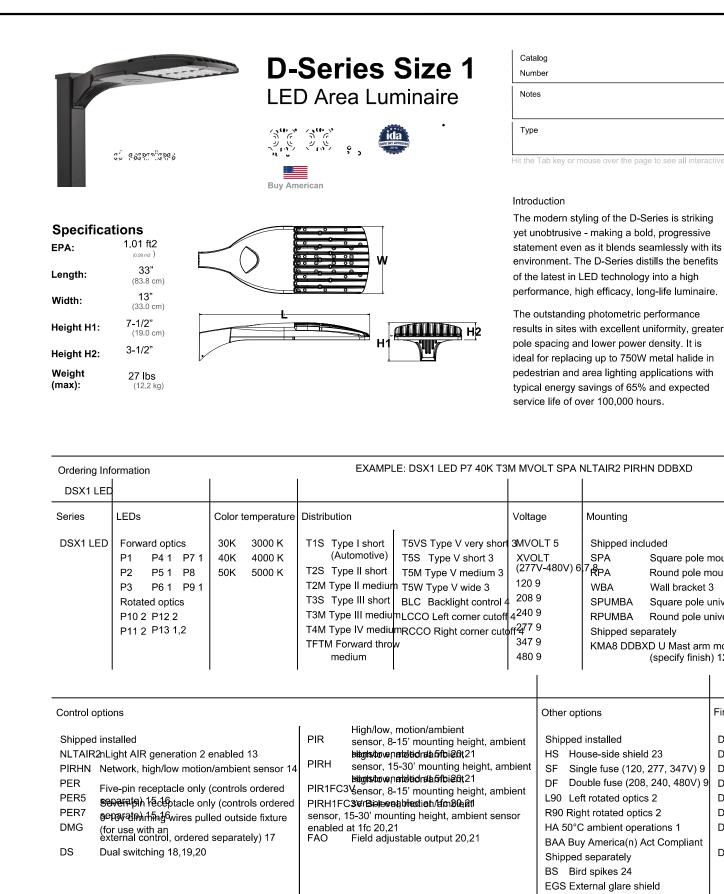
- BE COORDINATED WITH THE WORK OF OTHER TRADES.
- AG ALL UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION. ALL PROTECT EXISTING OVERHEAD AND UNDERGROUND UTILITIES CH SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE
- HER MATERIALS ARE QUANTIFIED AND SUMMARIZED FOR THE CO D LOCAL GOVERNING BODIES. CONFIRM AND INSTALL SUFFICIEN COMPLETE THE WORK AS DRAWN.
- TO CHANGES BASED ON PLANT SIZE AND MATERIAL AVAILABI BSTITUTIONS MUST BE APPROVED BY THE CITY OF LEE'S SUMM ARCHITECT.
- ERIAL SHALL BE NURSERY GROWN TO MEET MINIMUM SIZE AS S STANDARD FOR NURSERY STOCK ESTABLISHED BY THE AMERICA SSOCIATION (ANLA). THE LANDSCAPE ARCHITECT OR OWNER'S RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT N
- L BE CALIPERED AND ANY UNDERSIZED TREES SHALL BE REJEC ER MEASUREMENT FOR TREES SHALL BE MEASURED AT 12" ABC
- REES, SHRUBS, SODDED AND SEEDED TURFGRASS SHALL BE CON THE SPRING (MARCH 15–JUNE 15) OR FALL (SEPTEMBER 1 – C ON AND WITH WATER AVAILABLE FOR IRRIGATION PURPOSES.
- ALL STAKE OR MARK ALL PLANT MATERIAL LOCATIONS PRIOR ONTRACTOR SHALL HAVE THE LANDSCAPE ARCHITECT APPROVE TO INSTALLATION. FIELD ADJUSTMENTS MAY BE NECESSARY BAS G (I.E. ROOT BALL AND DROP INLET CONFLICT). ALL ADJUSTME THE LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND ANT GROWTH FROM PLANTING PITS AND BEDS PRIOR TO BACKI
- IT HERBICIDE SHALL BE APPLIED TO ALL SHRUB BEDS PRIOR T ANY PLANT MATERIAL.
- ANTING BEDS TO A MINIMUM 12-INCH DEPTH WITH PLANTING MIX SHALL CONSIST OF ONE (1) PART PERLITE, ONE (1) PART F ARTS CLEAN LOAM TOPSOIL. THOROUGHLY MIX PLANTING SOIL RIOR TO PLACEMENT.
- PLANTING AREAS, EXCLUDING TURF AREAS SHALL BE MULCHED "SHREDDED HARDWOOD MULCH UNLESS OTHERWISE NOTED ON DSCAPE EDGING IS TO BE USED ON ALL LANDSCAPE BEDS ABUT
- AREAS SHALL BE IRRIGATED WITH A HIGH-EFFICIENCY, AUTOMA IEM ACHIEVING 100% EVEN COVERAGE OF ALL LANDSCAPE AREA FEM SHALL BE DESIGN-BUILD TO MEET ALL CITY REQUIREMENTS.
- TRACTOR IS TO BE RESPONSIBLE FOR WATERING ALL PLANT MA THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTIONAL AND THE PROJECT HAS TAKEN PLACE. ANY MATERIAL WHICH DIES, OR TO ACCEPTANCE OF THE WORK) WILL BE PROMPTLY REMOVE
- WILL COMPLETELY GUARANTEE ALL WORK FOR A PERIOD OF HE DATE OF ACCEPTANCE. CONTRACTOR WILL MAKE ALL REPLAC PER DIRECTION OF OWNER).

# OTES

- AREAS SHALL BE SODDED WITH TURF-TYPE TALL FESCUE SOD CULTIVARS.
- S SHALL RECEIVE A MINIMUM 6-INCH DEPTH OF TOPSOIL COMP ENSITY AT OPTIMUM MOISTURE CONTENT.
- RFACE TO BE SODDED SHALL BE REASONABLY SMOOTH AND FRE OR OTHER DEBRIS.
- MACHINE STRIPPED AT A UNIFORM SOIL THICKNESS OF APPROX S OR MINUS 1/4-INCH). THE MEASUREMENT FOR THICKNESS SH ROWTH AND THATCH, AND SHALL BE DETERMINED AT THE TIME FIELD. PRECAUTIONS SHALL BE TAKEN TO PREVENT DRYING AN BY HEAT AND DRY CONDITIONS, AND SOD CUT MORE THAN 18 | NCORPORATED INTO THE WORK SHALL NOT BE USED.
- OD SHALL BE DONE IN A MANNER THAT WILL PREVENT TEARING HER DAMAGE. PROTECT EXPOSED ROOTS FROM DEHYDRATION. [ SOD THAN CAN BE LAID WITHIN 24 HOURS.
- RED SURFACE IMMEDIATELY PRIOR TO LAYING SOD. WATER THO RFACE TO DRY BEFORE INSTALLING SOD. FERTILIZE, HARROW OR HE TOP 1-1/2-INCHES OF TOPSOIL, AT A UNIFORM RATE OF O ER 1000 S.F.
- CAREFULLY PLACED IN THE DIRECTION PARALLEL WITH THE SLO AREA TO BE SODDED. SOD STRIPS SHALL BE BUTTED TOGETHER BUT NOT OVE WITH THE SEAMS STAGGERED ON EACH ROW.
- 8. FERTILIZER SHALL BE 20-10-5 COMMERCIAL FERTILIZER OF THE GRADE, TYPE, SPECIFIED AND SHALL COMPLY WITH THE RULES OF THE STATE OF MISSOURI D AGRICULTURE. FERTILIZER SHALL BE IDENTIFIED ACCORDING TO THE PERCENT THAT ORDER.
- 9. ALL SOD ON SLOPES GREATER THAN 5:1 AND WITHIN DETENTION AREAS SHALL STAKED.
- 10. SATURATE SOD WITH FINE WATER SPRAY WITHIN TWO HOURS OF PLANTING. DU WEEK AFTER PLANTING, WATER DAILY OR MORE FREQUENTLY AS NECESSARY TO MOIST SOIL TO A MINIMUM DEPTH OF FOUR INCHES BELOW SOD.
- 11. CONTRACTOR SHALL PROVIDE FULL MAINTENANCE FOR SODDED TURF GRASS FO OF 30 DAYS AFTER THE DATE OF FINAL ACCEPTANCE. AT THE END OF THE MAINTENANCE PERIOD, A HEALTHY, WELL-ROOTED, EVEN-COLORED, VIABLE TUR ESTABLISHED. THE TURF GRASS SHALL BE FREE OF WEEDS, OPEN JOINTS, BAI AND SURFACE IRREGULARITIES.

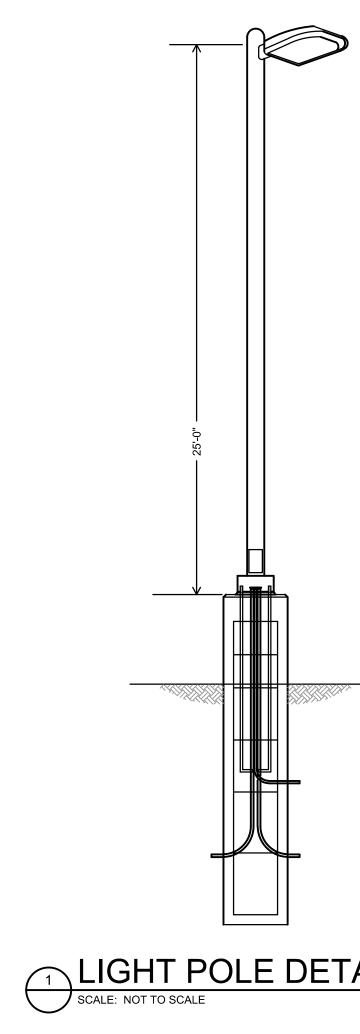
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OR A PERIOD RF MUST BE ARE AREAS,	LANDSCAPE NOTES & DETAILS FINAL DEVELOPMENT PLAN - BUILDING 2	SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET	-EE'S SUMMIT, MISSOURI
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	date:	SC01_B21041 03.1	MK -04157 57.dwg 1.2022
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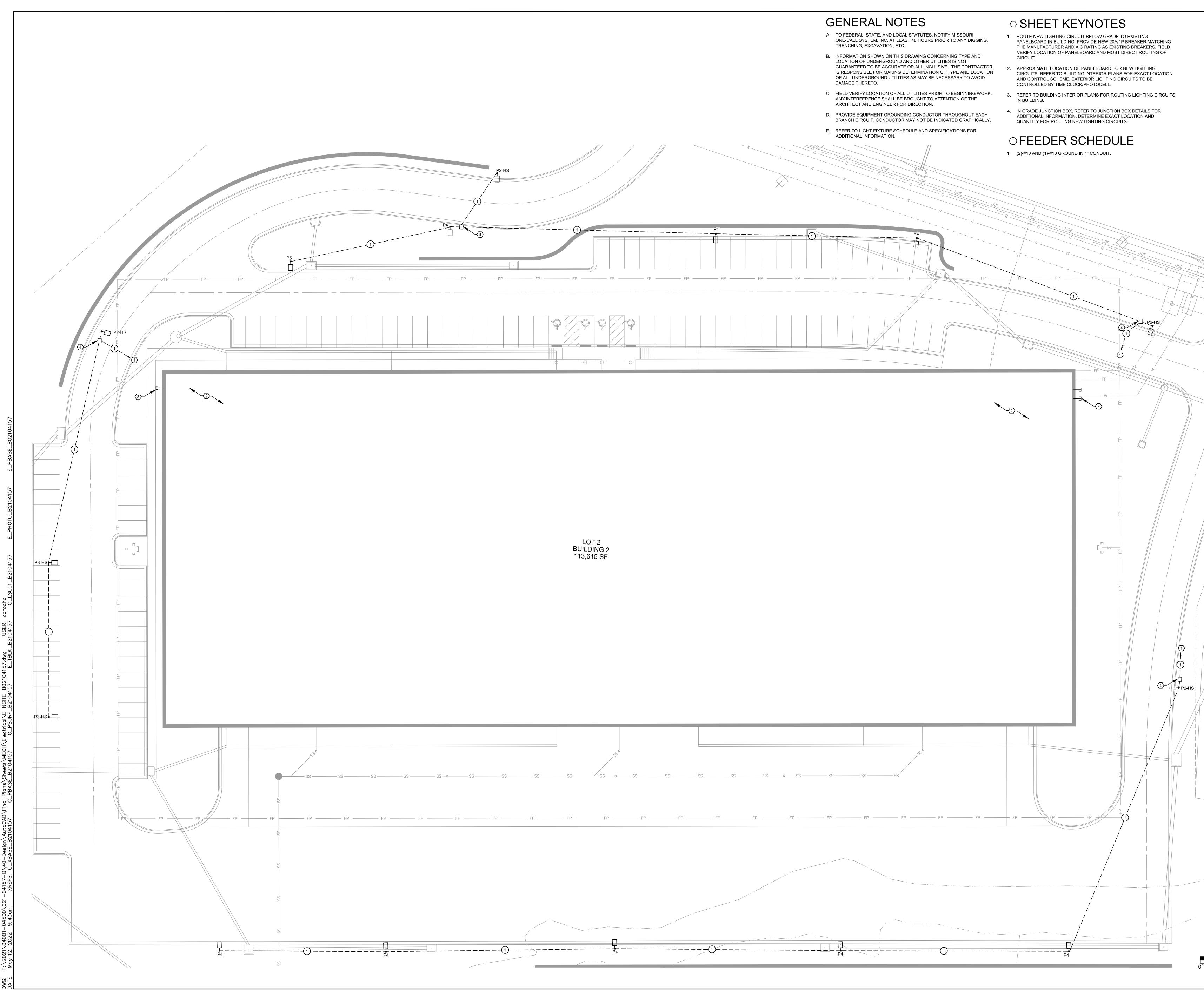


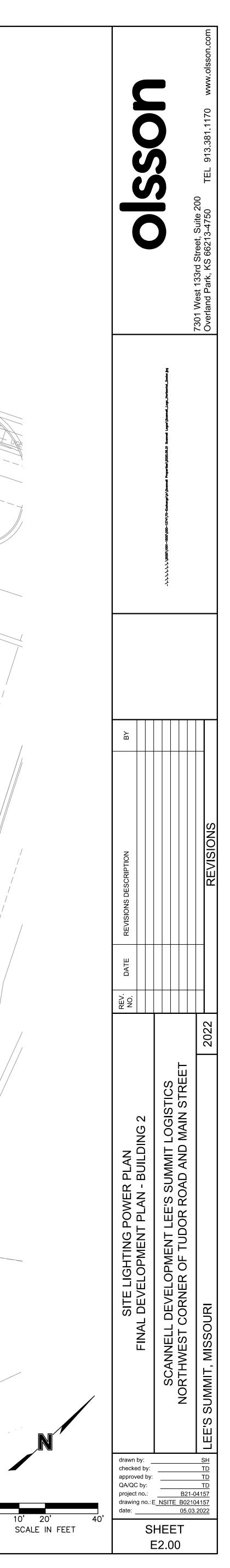
ر نې نې د د نې نې نې COMMERCIAL OUTDOOR One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com © 2011-2021 Acuity Brands Lighting, Inc. All rights reserved.

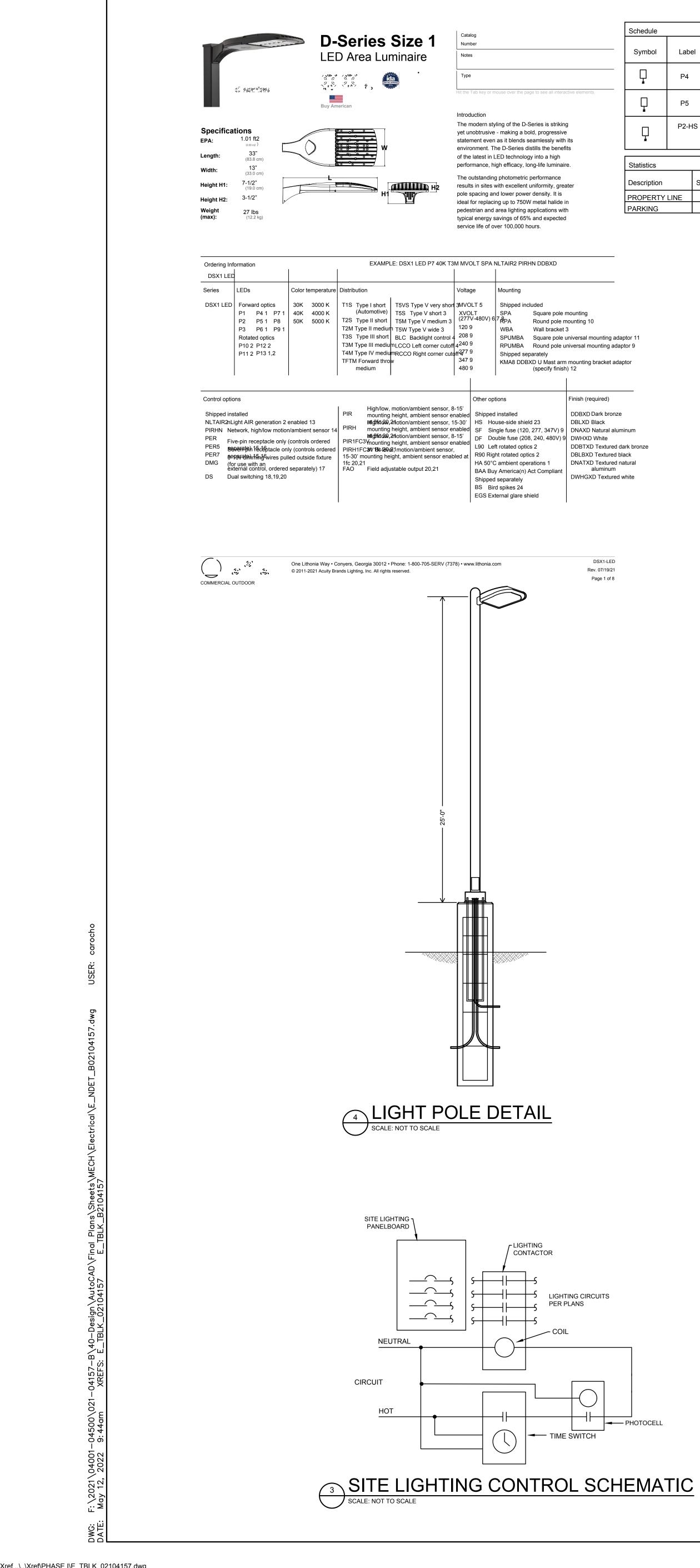
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Ţ	P5		1	Lithonia Lig	hting		DSX1 LED P3 40K T5S DS MVOLT		K T5S	DSX1 LED P3 40K T5S MVOLT	1
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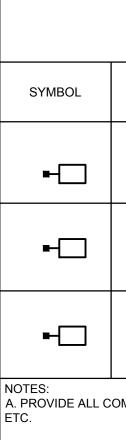
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210415 03.11	NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET				PROPERTIE	S	
TD TD 04157		2022	REVISIONS			7301 West 133rd Street, Suite 200 Overland Park, KS 66213-4750 TEL 913.381.1170 www	www.olsson.com

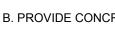


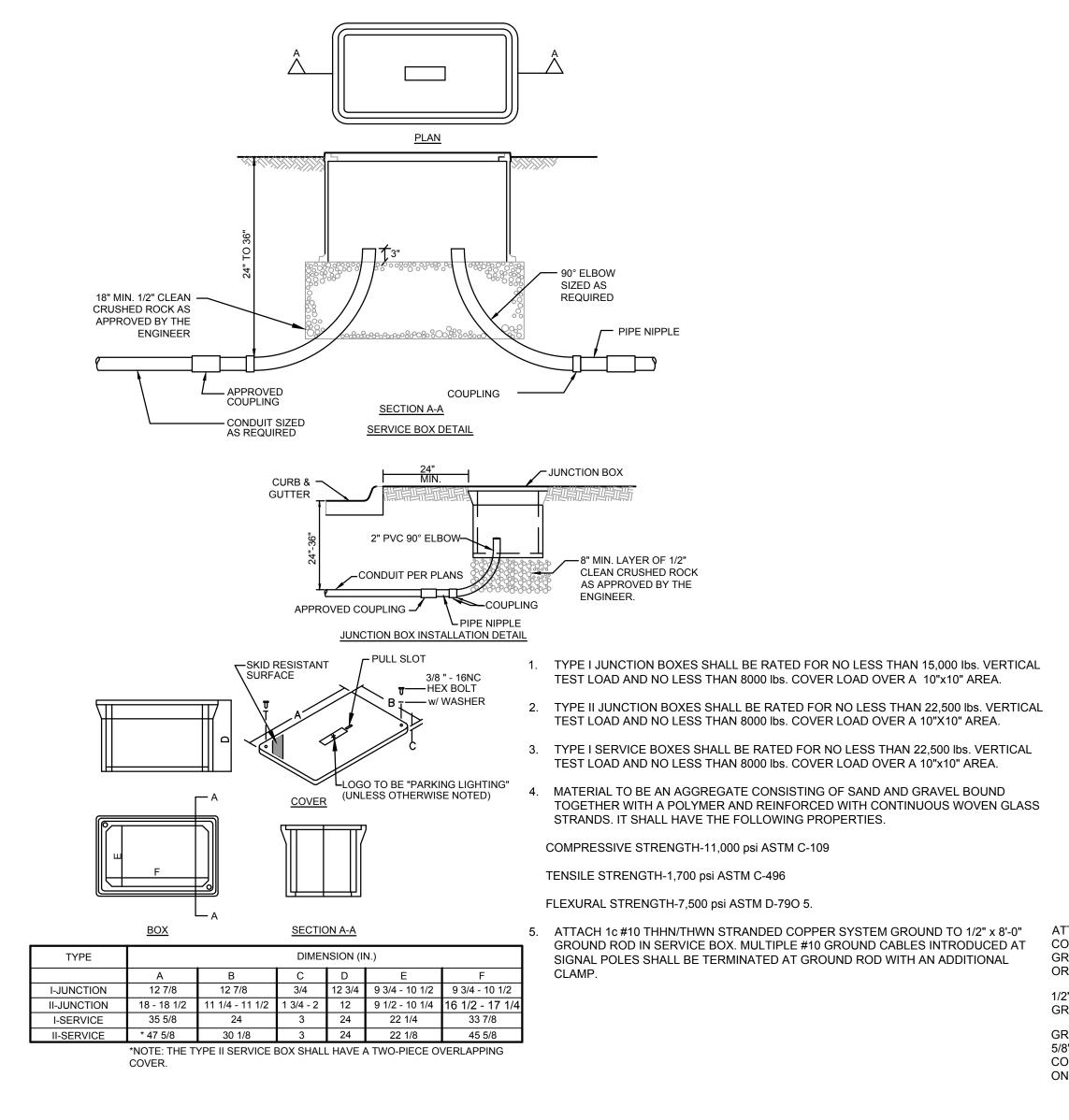




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I	Label	Qua	antity	Manufacture	er	Ca	atalog Number		Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage		
	P4		8	Lithonia Ligl	hting		SX1 LED P8 40 VOLT HS	K T4M	DSX1 LED P8 40K T4M MVOLT with houseside shield	1	18424	0.9	207	SYMBOL	
	P5		1	Lithonia Ligl	hting		SX1 LED P3 40 VOLT	K T5S	DSX1 LED P3 40K T5S MVOLT	1	13088	0.9	102		
	P2-HS	3	5	Lithonia Ligi	hting		SX1 LED P3 40 VOLT HS	K T2M	DSX1 LED P3 40K T2M MVOLT with houseside shield	1	10282	0.9	102	-	
s ion		Symbol	Avg	Мах	Min	Max/Min	n Avg/Min							•-	
<u>G</u>	LINE	+ Ж	0.0 fc 1.4 fc	0.1 fc 4.5 fc	0.0 fc 0.3 fc	N/A 15.0:1	N/A 4.7:1							•-	1
															1







## FIBERGLASS REINFORCED POLYMER CONCRETE JUNCTION BOX DETAILS SCALE: NOT TO SCALE

SCALE: NOT TO SCALE

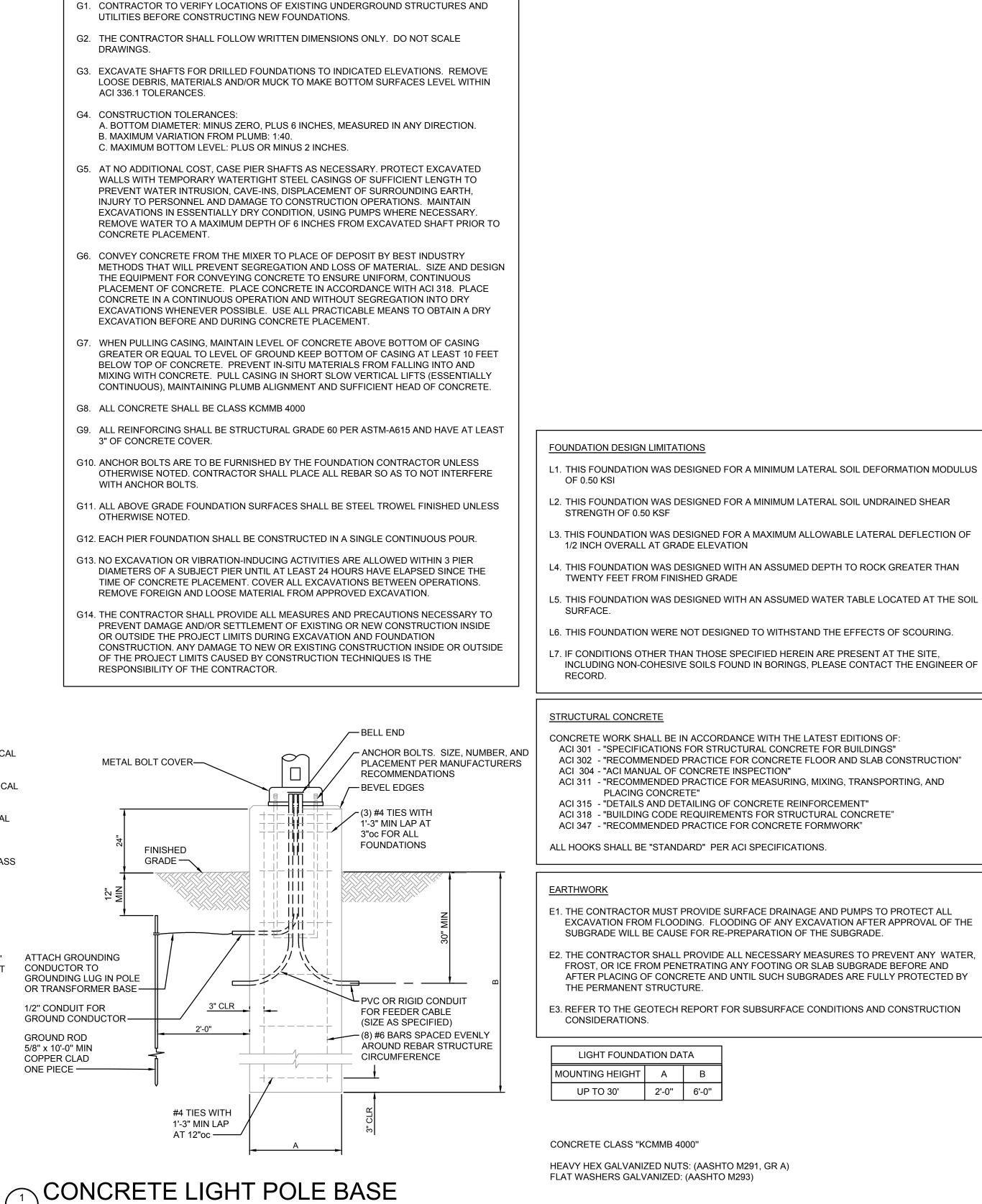


		GHTING FIXTURE SC	HED	ULE				
TYPE	DESCRIPTION	MANUFACTURER AND MODEL	LAMPS	LUMENS	COLOR TEMP / CRI	DRIVER / BALLAST	VOLTAGE / WATTAGE	LOCATION
P4	AREA LED LIGHT FIXTURE WITH 25'-0" POLE AND CONCRETE BASE.	LITHONIA# DSX1-LED-P8-40K-T4M-MVOLT-SPA-DBLXD POLE# SSS-25-5G-DM19AS-DBLXD	LED	18,424	4000K / 80	0-10V DIMMING	MVOLT 207	PARKING LOT
P5	AREA LED LIGHT FIXTURE WITH 25'-0" POLE AND CONCRETE BASE.	LITHONIA# DSX1-LED-P3-40K-T5S-MVOLT-SPA-DBLXD POLE# SSS-25-5G-DM19AS-DBLXD	LED	13,088	4000K / 80	0-10V DIMMING	MVOLT 102	PARKING LOT
P2-HS	AREA LED LIGHT FIXTURE WITH 25'-0" POLE AND CONCRETE BASE.	LITHONIA# DSX1-LED-P3-40K-T2M-HS-MVOLT-SPA-DBLXD POLE# SSS-25-5G-DM19AS-DBLXD	LED	10,282	4000K / 80	0-10V DIMMING	MVOLT 102	PARKING LOT

A. PROVIDE ALL COMPONENTS TO MAKE A COMPLETE ASSEMBLY. THIS WOULD INCLUDE, BUT NOT BE LIMITED TO, ARM, MOUNTING BRACKETS, POLE BASE COVER, ANCHOR BOLTS, TEMPLATE, BASE, HAND HOLE, SEPARA

B. PROVIDE CONCRETE BASE, PER DETAIL.

GENERAL NOTES



# STRUCTURAL CONCRETE CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF: ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI 302 - "RECOMMENDED PRACTICE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" ACI 304 - "ACI MANUAL OF CONCRETE INSPECTION" ACI 311 - "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE" ACI 315 - "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" ACI 318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI 347 - "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" ALL HOOKS SHALL BE "STANDARD" PER ACI SPECIFICATIONS. EARTHWORK

- E1. THE CONTRACTOR MUST PROVIDE SURFACE DRAINAGE AND PUMPS TO PROTECT ALL

- EXCAVATION FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR RE-PREPARATION OF THE SUBGRADE. E2. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND

- CONSIDERATIONS. LIGHT FOUNDATION DATA
- THE PERMANENT STRUCTURE.

В

6'-0''

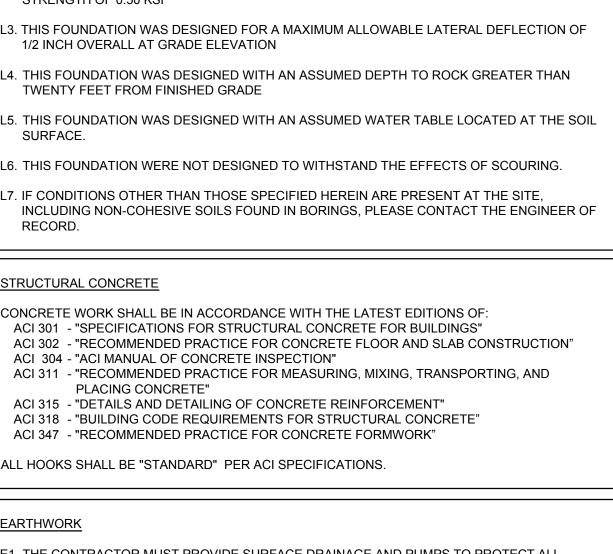
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2'-0''

- AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY E3. REFER TO THE GEOTECH REPORT FOR SUBSURFACE CONDITIONS AND CONSTRUCTION

ATE CIRCUIT OUTLET,

		7301 West 133rd Street, Suite 200 Overland Park, KS 66213-4750 TEL 913.381.1170 www.olsson.co
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SITE LIGHTING PHOTOMETRICS PLAN FINAL DEVELOPMENT PLAN - BUILDING 2	SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS	LEE'S SUMMIT, MISSOURI
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# SECTION 260000 ELECTRICAL

1. GENERAL CONDITIONS:

A. THIS CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO B PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.

- B. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMANENT AND TEMPORARY PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION OTHER THAN THOSE DEPOSITS OR FEES WHICH ARE FULLY REFUNDABLE TO THE OWNER.
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. WHERE LOCAL CONDITION NECESSITATE A REARRANGEMENT, THE CONTRACTOR SHALL PREPARE, AN SUBMIT FOR APPROVAL, DRAWINGS OF THE PROPOSED REARRANGEMENT THIS CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL ANI FINISH CONDITIONS AFFECTING ALL OF HIS WORK AND SHALL ARRANGE SU WORK ACCORDINGLY, FURNISHING SUCH FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS AT NO ADDITIONAL COST T
- D. THIS CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NO BE SCALED TO DETERMINE DIMENSIONS.
- E. SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH.
- F. FURNISH LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED AS SHOWN ON THE DRAWINGS AND SPECIFIED IN DIVISION 15.
- G. ALL WORK SHALL BE COMPLETE AND SHALL BE LEFT IN OPERATING CONDITION.
- H. INCLUDE ALL PARTS AND LABOR WHICH ARE INCIDENTAL AND NECESSARY FOR A COMPLETE AND OPERABLE INSTALLATION EVEN THOUGH NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS. .
- REQUEST INSPECTIONS AS REQUIRED BY REGULATING AGENCIES AND/OR Ι. REGULATIONS. PAY ALL CHARGES FOR INSPECTIONS BY REGULATING
- AGENCIES OF INSTALLATIONS OF PLANS SPECIFICATIONS. PROVIDE THE OWNER WITH A CERTIFICATE OF FINAL INSPECTION AND .1
- APPROVAL BY ENFORCEMENT AUTHORITIES. K. FURNISH: TO OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, DELIVER TO THE JOB SITE IN NEW CONDITION READY FOR INSTALLATION,
- L. INSTALL: TO RECEIVE AT THE JOB SITE, STORE, ASSEMBLE, ERECT, SET IN PLACE, ANCHOR, APPLY, FINISH, PROTECT, CLEAN, TEST, START-UP, AND MAKE READY FOR OWNER'S USE.
- M. PROVIDE: TO FURNISH AND INSTALL.

- N. PROVIDE NEW MATERIAL AND EQUIPMENT, UNLESS NOTED OTHERWISE. PROTECT EQUIPMENT AND MATERIAL FROM DAMAGE, DIRT AND THE WEATHER.
- O. THE ENGINEER RESERVES THE RIGHT TO REJECT MATERIAL OR WORKMANSHIP NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. BEFORE OR AFTER INSTALLATION, AT NO ADDITIONAL COST TO THE OWNER
- P. REFINISH ALL ELECTRICAL EQUIPMENT DAMAGED DURING SHIPPING, INSTALLATION AND/OR PRIOR TO FINAL ACCEPTANCE TO ITS ORIGINAL CONDITION. REMOVE ALL RUST; PRIME, AND PAINT PER MANUFACTURER'S RECOMMENDATIONS FOR FINISH EQUAL TO ORIGINAL.
- Q. PROTECT OPENINGS AND EQUIPMENT FROM OBSTRUCTION, BREAKAGE, MISUSE, DAMAGE OR BLEMISHES. PROTECT MATERIALS AND EQUIPMENT IMMEDIATELY UPON RECEIPT AT THE JOB SITE OR IMMEDIATELY AFTER TH HAVE BEEN REMOVED FROM THEIR SHIPPING CONTAINERS. UNLESS NOTE OTHERWISE, KEEP THEM CLEAN AND UNDAMAGED UNTIL FINAL ACCEPTAN OF THE ENTIRE PROJECT BY THE OWNER. WHEN A PORTION OF THE BUILDING IS OCCUPIED BY THE OWNER BEFORE SUBSTANTIAL COMPLETION OF THE ENTIRE PROJECT, MAKE ARRANGEMENTS TO TRANSFER RESPONSIBILITY FOR PROTECTION AND HOUSEKEEPING FOR THE OCCUPIE
- R. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ELECTRICAL EQUIPMENT, MATERIALS OR WORK UNTIL FINAL ACCEPTANCE OF THE ENTIL PROJECT BY THE OWNER.
- S. KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH, CAUSED BY HIS EMPLOYEES OR WORK, AT ALL TIMES. REMOVE RUBBISH, TOOLS, SCAFFOLDING, AND SURPLUS MATERIALS FROM AND ABC THE BUILDING, AND LEAVE WORK AREAS "BROOM CLEAN" OR ITS EQUIVALE DAILY. CLEAN ELECTRICAL EQUIPMENT AND REMOVE TEMPORARY IDENTIFICATION.
- T. OPERATE EQUIPMENT AND SYSTEMS IN ALL THEIR OPERATING MODES, TO VERIFY PROPER OPERATION, PRIOR TO FINAL FIELD OBSERVATION AND OWNER INSTRUCTIONS. PREPARE A PRE-INSPECTION REPORT AND SUBMI TO THE ENGINEER AND OWNER FOR REVIEW.
- U. TEST ALL INSTALLED ELECTRICAL EQUIPMENT AND CABLES REQUIRED BY CONSTRUCTION DOCUMENTS ACCORDING TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE INTERNATIONAL ELECTRICAL TESTING ASSOCIATION, INC. (NETA). IF ACCEPTABLE PERFORMANCE OF ANY TEST I NOT ACHIEVED, MAKE THE NECESSARY CORRECTIONS AND THE TEST SHAI BE REPEATED UNTIL ACCEPTABLE PERFORMANCE IS ACHIEVED. PROVIDE WRITTEN REPORTS OF ALL TESTS, WITH FAILURES IDENTIFIED, TO ENGINE
- V. FULLY INSTRUCT THE OWNER'S DESIGNATED PERSONNEL IN THE OPERATION OF EACH ELECTRICAL SYSTEM AT THE TIME IT IS PUT INTO SERVICE. PROV INSTRUCTION USING COMPETENT INSTRUCTORS AND FACTORY TRAINED PERSONNEL.
- W. CONTRACTOR SHALL INSTALL ALL MATERIALS AND EQUIPMENT AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND/OR RECOMMENDATIONS.
- X. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT INDICATED AND/OR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTE A FORM INDICATING ALL SHOP DRAWINGS TO BE PROVIDED AS PART OF TH PROJECT SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER PRIOR TO ANY SHOP DRAWING SUBMITTAL REVIEW.
- Y. THIS SPECIFICATION SHALL INCORPORATE ALL PROJECT REQUIREMENTS A RESPONSIBILITIES INDICATED WITHIN THE FRONT-END OF THE PROJECT MANUAL.

2. LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES:

Α.	ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL
	ELECTRICAL CODE, THE NATIONAL FIRE PROTECTION ASSOCIATION CODES,
	THE NATIONAL ELECTRICAL SAFETY CODE, LOCAL BUILDING CODE, AND ALL
	APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND
	CODES. SHOULD ANY WORK SHOWN ON THE DRAWINGS OR SPECIFIED
	HEREIN BE OF LOWER STANDARD, THE CONTRACTOR SHALL REFER THE
	POINTS IN QUESTION TO THE ENGINEER FOR APPROVAL.

3. SCOPE OF WORK:

A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL AND ASSOCIATED SERVICES REQUIRED TO COMPLETELY

	DRAWINGS AND HEREIN DESCRIBED.
THIS CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO BE PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.	<ul> <li>B. ALL WORK PERFORMED UNDER THIS SECTION SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.</li> <li>4. MATERIALS AND EQUIPMENT REVIEW:</li> </ul>
THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMANENT AND TEMPORARY PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION OTHER THAN THOSE DEPOSITS OR FEES WHICH ARE FULLY REFUNDABLE TO THE OWNER.	<ul> <li>A. AS SOON AS POSSIBLE AFTER THE AWARD OF THE CONTRACT, THIS CONTRACTOR SHALL SUBMIT FOR REVIEW SHOP DRAWINGS FOR ALL EQUIPMENT TO BE FURNISHED FOR THIS PROJECT. SUBMITTALS SHALL HIGHLIGHT THE MANUFACTURER'S NAME, MODEL NUMBER, DESCRIPTIVE ENGINEERING DATA AND ALL NECESSARY INFORMATION AS TO FINISH, MATERIAL GAUGES AND ACCESSORIES.</li> </ul>
DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. WHERE LOCAL CONDITIONS NECESSITATE A REARRANGEMENT, THE CONTRACTOR SHALL PREPARE, AND SUBMIT FOR APPROVAL, DRAWINGS OF THE PROPOSED REARRANGEMENT. ITHIS CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL OF HIS WORK AND SHALL ARRANGE SUCH	<ul> <li>B. ALL PORTIONS OF THE SHOP DRAWINGS THAT ARE INTENDED TO BE REVIEWED SHALL BE HIGHLIGHTED. ANY PORTION NOT CALLED OUT SHALL BE ASSUMED TO BE EXCLUDED FROM THE JOB.</li> </ul>
VORK ACCORDINGLY, FURNISHING SUCH FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.	5. GUARANTEE: A. THIS CONTRACTOR SHALL GUARANTEE COMPLETE SYSTEM OPERATION AND
HIS CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.	THAT THE APPARATUS FURNISHED AND INSTALLED WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS AND WILL GIVE SATISFACTORY SERVICE. THE CONTRACTOR AGREES TO REPLACE, WITHOUT EXPENSE TO THE OWNER, ANY PART OF THE INSTALLATION WHICH PROVES OR BECOMES
PECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND WHAT IS ALLED FOR IN ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH.	DEFECTIVE WITHIN ONE YEAR AFTER THE SYSTEM IS ACCEPTED. 6. COORDINATION:
URNISH LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED AS HOWN ON THE DRAWINGS AND SPECIFIED IN DIVISION 15.	A. THIS CONTRACTOR SHALL EXAMINE ALL ARCHITECTURAL, MECHANICAL, STRUCTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT, AND IT
LL WORK SHALL BE COMPLETE AND SHALL BE LEFT IN OPERATING ONDITION.	SHALL BE HIS RESPONSIBILITY TO COORDINATE THE ELECTRICAL WORK WITH OTHER TRADES.
ICLUDE ALL PARTS AND LABOR WHICH ARE INCIDENTAL AND NECESSARY OR A COMPLETE AND OPERABLE INSTALLATION EVEN THOUGH NOT PECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS	<ul><li>7. AS-BUILT DRAWINGS:</li><li>A. THIS CONTRACTOR SHALL PREPARE COMPLETE AS-BUILT DRAWINGS OF ALL</li></ul>
EQUEST INSPECTIONS AS REQUIRED BY REGULATING AGENCIES AND/OR EGULATIONS. PAY ALL CHARGES FOR INSPECTIONS BY REGULATING GENCIES OF INSTALLATIONS OF PLANS SPECIFICATIONS.	ELECTRICAL SYSTEMS AND TURN OVER TO THE ENGINEER REVISED ELECTRONIC CAD FILES. B. THIS CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER'S
ROVIDE THE OWNER WITH A CERTIFICATE OF FINAL INSPECTION AND PPROVAL BY ENFORCEMENT AUTHORITIES.	REPRESENTATIVE FIVE BOUND SETS OF MANUFACTURER'S LITERATURE FOR ALL EQUIPMENT TO BE INSTALLED ON THIS PROJECT SHOWING ALL DETAILS OF EQUIPMENT, REPLACEMENT PART DATA AND MAINTENANCE INSTRUCTIONS.
JRNISH: TO OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, ELIVER TO THE JOB SITE IN NEW CONDITION READY FOR INSTALLATION, NLOAD AND UNPACK, AND GUARANTEE.	8. EXCAVATION:
ISTALL: TO RECEIVE AT THE JOB SITE, STORE, ASSEMBLE, ERECT, SET IN LACE, ANCHOR, APPLY, FINISH, PROTECT, CLEAN, TEST, START-UP, AND	A. ALL EXCAVATION AND BACKFILL REQUIRED FOR THE INSTALLATION OF ELECTRICAL WORK SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR.
AKE READY FOR OWNER'S USE. ROVIDE: TO FURNISH AND INSTALL.	B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LAYOUT AND THE ESTABLISHMENT OF ALL LINES AND LEVELS REQUIRED FOR THE EXECUTION OF THE WORK.
ROVIDE NEW MATERIAL AND EQUIPMENT, UNLESS NOTED OTHERWISE. ROTECT EQUIPMENT AND MATERIAL FROM DAMAGE, DIRT AND THE EATHER.	C. WHEN SERVICES ARE TO BE RUN SIDE-BY- SIDE, A COMMON TRENCH MAY BE USED PROVIDING THE REQUIRED VERTICAL AND HORIZONTAL SEPARATION
HE ENGINEER RESERVES THE RIGHT TO REJECT MATERIAL OR ORKMANSHIP NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, EFORE OR AFTER INSTALLATION, AT NO ADDITIONAL COST TO THE OWNER.	BETWEEN THE VARIOUS SERVICES ARE MAINTAINED AND PROVIDING THE METHODS OF BEDDING AND BACKFILL MEET THE APPROVAL OF THE ENGINEER. CONTRACTORS INVOLVED SHALL MAKE THEIR OWN AGREEMENT AS TO THE SHARING OF THE COST OF THE COMMON TRENCHING AND BACKFILL WORK.
EFINISH ALL ELECTRICAL EQUIPMENT DAMAGED DURING SHIPPING, ISTALLATION AND/OR PRIOR TO FINAL ACCEPTANCE TO ITS ORIGINAL ONDITION. REMOVE ALL RUST; PRIME, AND PAINT PER MANUFACTURER'S ECOMMENDATIONS FOR FINISH EQUAL TO ORIGINAL.	D. LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF EXCAVATION WORK. SHOULD UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT UTILITY
ROTECT OPENINGS AND EQUIPMENT FROM OBSTRUCTION, BREAKAGE, ISUSE, DAMAGE OR BLEMISHES. PROTECT MATERIALS AND EQUIPMENT IMEDIATELY UPON RECEIPT AT THE JOB SITE OR IMMEDIATELY AFTER THEY AVE BEEN REMOVED FROM THEIR SHIPPING CONTAINERS. UNLESS NOTED THERWISE, KEEP THEM CLEAN AND UNDAMAGED UNTIL FINAL ACCEPTANCE F THE ENTIRE PROJECT BY THE OWNER. WHEN A PORTION OF THE	ENGINEER IMMEDIATELY FOR DIRECTIONS. COOPERATE WITH OWNER AND UTILITY COMPANIES IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UTILITIES TO SATISFACTION OF UTILITY OWNER. 9. EXTERIOR AND FOUNDATION WALLS:
JILDING IS OCCUPIED BY THE OWNER. WHEN A FORTION OF THE JILDING IS OCCUPIED BY THE OWNER BEFORE SUBSTANTIAL COMPLETION F THE ENTIRE PROJECT, MAKE ARRANGEMENTS TO TRANSFER ESPONSIBILITY FOR PROTECTION AND HOUSEKEEPING FOR THE OCCUPIED ORTION.	A. ALL PIPING THROUGH EXTERIOR OR FOUNDATION WALLS SHALL PASS THROUGH SCHEDULE 40 GALVANIZED STEEL SLEEVES WHICH SHALL BE LARGE ENOUGH TO ALLOW FOR CAULKING MATERIAL. NO SLEEVES ARE PERMITTED THROUGH CONCRETE STRUCTURAL MEMBERS. ALL SLEEVES SHALL BE COORDINATED AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
QUIPMENT, MATERIALS OR WORK UNTIL FINAL ACCEPTANCE OF THE ENTIRE ROJECT BY THE OWNER.	10.FLOORS:
EEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR UBBISH, CAUSED BY HIS EMPLOYEES OR WORK, AT ALL TIMES. REMOVE UBBISH, TOOLS, SCAFFOLDING, AND SURPLUS MATERIALS FROM AND ABOUT HE BUILDING, AND LEAVE WORK AREAS "BROOM CLEAN" OR ITS EQUIVALENT AILY. CLEAN ELECTRICAL EQUIPMENT AND REMOVE TEMPORARY	<ul> <li>A. ALL PIPING THROUGH FLOORS SHALL BE PROVIDED WITH SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES, EXTENDING 2 INCHES ABOVE FLOOR.</li> <li>11.CUTTING:</li> </ul>
PERATE EQUIPMENT AND SYSTEMS IN ALL THEIR OPERATING MODES, TO	A. ALL CUTTING OF EXISTING CONCRETE FLOORS/SLABS ON GRADE IN THE INTERIOR OF THE BUILDING SHALL BE PERFORMED BY "SAW CUTTING".
ERIFY PROPER OPERATION, PRIOR TO FINAL FIELD OBSERVATION AND WNER INSTRUCTIONS. PREPARE A PRE-INSPECTION REPORT AND SUBMIT O THE ENGINEER AND OWNER FOR REVIEW.	12.PATCHING:
EST ALL INSTALLED ELECTRICAL EQUIPMENT AND CABLES REQUIRED BY DNSTRUCTION DOCUMENTS ACCORDING TO THE REQUIREMENTS OF THE	A. ON CONCRETE, PATCH THE OPENING WITH CONCRETE, FINISHED SMOOTH WITH ADJACENT SURFACES.
OST CURRENT EDITION OF THE INTERNATIONAL ELECTRICAL TESTING SSOCIATION, INC. (NETA). IF ACCEPTABLE PERFORMANCE OF ANY TEST IS OT ACHIEVED, MAKE THE NECESSARY CORRECTIONS AND THE TEST SHALL E REPEATED UNTIL ACCEPTABLE PERFORMANCE IS ACHIEVED. PROVIDE	<ul> <li>13.IDENTIFICATION OF SWITCHES AND APPARATUS:</li> <li>A. ALL CABINETS, SAFETY SWITCHES, AND OTHER APPARATUS USED FOR OPERATION AND CONTROL OF CIRCUITS, APPLIANCES, AND EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY IDENTIFIED BY MEANS OF</li> </ul>
RITTEN REPORTS OF ALL TESTS, WITH FAILURES IDENTIFIED, TO ENGINEER. JLLY INSTRUCT THE OWNER'S DESIGNATED PERSONNEL IN THE OPERATION F EACH ELECTRICAL SYSTEM AT THE TIME IT IS PUT INTO SERVICE. PROVIDE	UNDER THIS CONTRACT SHALL BE PROPERLY IDENTIFIED BY MEANS OF ENGRAVED PLASTIC PLATES BLACK WITH WHITE LETTERS. 14. GROUNDING:
STRUCTION USING COMPETENT INSTRUCTORS AND FACTORY TRAINED ERSONNEL. ONTRACTOR SHALL INSTALL ALL MATERIALS AND EQUIPMENT AS PER	<ul><li>A. ALL FEEDERS AND BRANCH CIRCUITS SHALL CONTAIN GROUND WIRES.</li><li>B. ALL CONDUCTORS, MOTOR FRAMES, RACEWAYS, CABINETS, ETC., THAT</li></ul>
ANUFACTURER'S WRITTEN INSTRUCTIONS AND/OR RECOMMENDATIONS. ONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT	REQUIRE GROUNDING SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, THOSE OF THE SERVING UTILITY AND LOCAL AUTHORITIES HAVING JURISDICTION.
DICATED AND/OR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. FORM INDICATING ALL SHOP DRAWINGS TO BE PROVIDED AS PART OF THE ROJECT SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER PRIOR TO NY SHOP DRAWING SUBMITTAL REVIEW.	15. CONDUIT: A. ALL ELECTRICAL POWER WIRING, INCLUDING LOW VOLTAGE WIRING, SHALL BE INSTALLED IN CONDUIT AS HEREIN SPECIFIED. NO CONDUIT OR TUBING
HIS SPECIFICATION SHALL INCORPORATE ALL PROJECT REQUIREMENTS AND ESPONSIBILITIES INDICATED WITHIN THE FRONT-END OF THE PROJECT ANUAL.	<ul> <li>BE INSTALLED IN CONDUIT AS HEREIN SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4 INCH NOMINAL SIZE SHALL BE USED.</li> <li>B. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 AS MANUFACTURED BY CARLON OR APPROVED EQUAL. ALL CONDUITS SHALL BE INSTALLED WITH</li> </ul>
TIONS, ORDINANCES, STATUTES AND CODES:	MINIMUM 36" INCH COVER.
LL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL LECTRICAL CODE, THE NATIONAL FIRE PROTECTION ASSOCIATION CODES, HE NATIONAL ELECTRICAL SAFETY CODE, LOCAL BUILDING CODE, AND ALL PPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND ODES. SHOULD ANY WORK SHOWN ON THE DRAWINGS OR SPECIFIED IEREIN BE OF LOWER STANDARD, THE CONTRACTOR SHALL REFER THE	C. CONDUIT INSTALLED ABOVE GROUND EXTERIOR SHALL BE GALVANIZED RIGIE STEEL AS MANUFACTURED BY THE ALLIED TUBE AND CONDUIT CORPORATION OR APPROVED EQUAL. CONDUIT SHALL BE SHERARDIZED OR HOT-DIP GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING.
OINTS IN QUESTION TO THE ENGINEER FOR APPROVAL.	D. WHEN PVC CONDUITS PENETRATE CONCRETE FLOOR CONSTRUCTION, CONTRACTOR SHALL USE RIGID STEEL ELBOWS AND EXTENSION. PVC CONDUIT/FITTINGS SHALL NOT BE PERMITTED TO BE EXPOSED ABOVE THE
WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL AND ASSOCIATED SERVICES REQUIRED TO COMPLETELY CONSTRUCT AND LEAVE ALL SYSTEMS OPERATIONAL AS SHOWN ON THE	<ul><li>FLOOR.</li><li>E. THIN WALL TUBING SHALL BE REPUBLIC "ELECTRUNITE E.M.T." OR APPROVED EQUAL. SHALL BE INSTALLED INDOORS.</li></ul>

F.	ALL FITTINGS SHALL BE OF THE COMPRESSION TYPE A WATERTIGHT.

- UNLESS OTHERWISE NOTED. H. RACEWAYS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET TO FITTING. A RUN OF CONDUIT BETWEEN OUTLETS OR FITTI CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER-E INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE OUT FITTING. THE RADIUS OF BENDS SHALL NEVER BE SHORTER THE CORRESPONDING TRADE ELBOW. THE SYS- TEM SHALL I WITH OUTLETS, DISTRIBUTION BOXES, ETC., SMOOTH INSIDE A MECHANICALLY SECURE IN PLACE. APPROVED STRAPS, HANC SUPPORTS SHALL BE USED TO SECURE CONDUITS IN PLACE. SHALL, IN GENERAL, BE SUPPORTED AT INTERVALS NOT EXCE AND WITHIN 3'-0" OF EACH OUTLET BOX, JUNCTION BOX, CABIN
- I. CONDUITS SHALL BE PROTECTED DURING CONSTRUCTION; P CLEAN AND DRY. CONDUIT ENDS SHALL BE BUTTED IN CENTE COUPLINGS. NO CRACKS OR FLATTENED SECTIONS WILL BE F BENDS OR ELSEWHERE. ALL ENDS OF CONDUIT SHALL BE REA REMOVE ROUGH EDGES. RUNNING THREADS WILL NOT BE PE
- J. CONDUITS SHALL BE CONCEALED WITHIN THE WALLS, CEILING WHERE POSSIBLE AND UNLESS OTHERWISE NOTED. EXPOSE SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES WITH THE LINES.
- 18. WIRE AND CABLE:
  - A. WIRE AND CABLE SHALL BE AMERICAN INSULATED WIRE CORF CABLE CORP., SENATOR WIRE AND CABLE CORP. SOUTHWIRE EQUAL, OF SIZES AS SHOWN ON THE DRAWINGS OR HEREIN S
  - B. ALL CONDUCTORS SHALL BE COPPER. C. NO. 10 AWG AND SMALLER CONDUCTORS SHALL BE SOLID WIT AND NO. 8 AWG AND LARGER CONDUCTORS SHALL BE STRAN THHN/THWN INSULATION EXCEPT THAT CONDUCTORS WITHIN LIGHT FIXTURE BALLASTS SHALL HAVE RHH, THHN, OR EQUAL

F. G. H. J.	ALL FITTINGS SHALL BE OF THE COMPRESSION TYPE AND SHALL BE WATERTIGHT. CONDUIT FOR INTERIOR WIRING, IN GENERAL, SHALL BE THINWALL TUBING UNLESS OTHERWISE NOTED. RACEWAYS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FITTING TO FITTING. A RUN OF CONDUIT BETWEEN OUTLETS OR FITTINGS SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER-BENDS INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE OUTLET OR FITTING. THE RADIUS OF BENDS SHALL NEVER BE SHORTER THAN THAT OF THE CORRESPONDING TRADE ELBOW. THE SYS- TEM SHALL BE COMPLETE WITH OUTLETS, DISTRIBUTION BOXES, ETC., SMOOTH INSIDE AND MECHANICALLY SECURE IN PLACE. APPROVED STRAPS, HANGERS, OR SUPPORTS SHALL BE USED TO SECURE CONDUITS IN PLACE. CONDUITS SHALL, IN GENERAL, BE SUPPORTED AT INTERVALS NOT EXCEEDING 10'-0" AND WITHIN 3'-0" OF EACH OUTLET BOX, JUNCTION BOX, CABINET OR FITTING. CONDUITS SHALL BE PROTECTED DURING CONSTRUCTION; PLUG AND KEEP CLEAN AND DRY. CONDUIT ENDS SHALL BE BUTTED IN CENTERS OF COUPLINGS. NO CRACKS OR FLATTENED SECTIONS WILL BE PERMITTED AT BENDS OR ELSEWHERE. ALL ENDS OF CONDUIT SHALL BE REAMED TO REMOVE ROUGH EDGES. RUNNING THREADS WILL NOT BE PERMITTED. CONDUITS SHALL BE CONCEALED WITHIN THE WALLS, CEILINGS, AND FLOORS WHERE POSSIBLE AND UNLESS OTHERWISE NOTED. EXPOSED CONDUIT SHALL BE CONCEALED WITHIN THE WALLS, CEILINGS, AND FLOORS WHERE POSSIBLE AND UNLESS OTHERWISE NOTED. EXPOSED CONDUIT SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES WITH THE BUILD-ING LINES.		7	7301 West 133rd Street, Suite 200 Overland Park, KS 66213-4750 TEL 913.381.1170 www.olsson.com
E AND ( A. B. C.	CABLE: WIRE AND CABLE SHALL BE AMERICAN INSULATED WIRE CORP., GENERAL CABLE CORP., SENATOR WIRE AND CABLE CORP. SOUTHWIRE OR APPROVED EQUAL, OF SIZES AS SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED. ALL CONDUCTORS SHALL BE COPPER. NO. 10 AWG AND SMALLER CONDUCTORS SHALL BE SOLID WITH INSULATION AND NO. 8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED WITH TYPE THHNTHWN INSULATION EXCEPT THAT CONDUCTORS WITHIN 3 INCHES OF LIGHT FIXTURE BALLASTS SHALL HAVE RHH, THHN, OR EQUAL INSULATION RATED FOR 90 DEGREES C. APPLICATION.			
		BY		
		REV. DATE REVISIONS DESCRIPTION		REVISIONS
		SITE LIGHTING SPECIFICATIONS FINAL DEVELOPMENT PLAN - BUILDING 2	SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS NORTHWEST CORNER OF TUDOR ROAD AND MAIN STREET	LEE'S SUMMIT, MISSOURI 2022
		date:		<u>SH</u> TD TD 04157 04157 3.2022

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