

CONSTRUCTION DOCUMENTS FOR MID-CONTINENT PUBLIC LIBRARY COLBERN BRANCH

NE 1/4 OF SECTION 29, TOWNSHIP 48 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



NOT TO SCALE

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DEVELOPMENT TEAM CONTACT INFORMATION	
OWNER/DEVELOPER	
STEVEN V. POTTER MID-CONTINENT PUBLIC LIBRARY	ADMINISTRATIVE HEADQUARTERS 15616 E. 24 HWY. INDEPENDENCE, MO 64050 816.836.5200
CIVIL ENGINEER	
TERRY PARSONS OLSSON	7301 W. 133RD STREET SUITE 200 OVERLAND PARK, KS 66213 PH: 913.381.1170 FAX: 913.381.1174 tparsons@olsson.com

UTILITY AND GOVERNING AGENCY CONTACT INFORMATION	
CITY OF LEE'S SUMMIT, MISSOURI	220 SE GREEN LEE'S SUMMIT, MO 64063
CITY HALL	816.969.1000
BUILDING INSPECTIONS	816.969.1200
SPECIAL INSPECTIONS	816.969.1200
BUILDING PERMITS	816.969.1200
LAND DEVELOPMENT DIVISION/INSPECTIONS	816.969.1200
TRAFFIC OPERATIONS	816.969.1800
LEE'S SUMMIT WATER UTILITIES	1200 SE HAMBLIN ROAD LEE'S SUMMIT, MO 64081
LEE'S SUMMIT WATER & SERVICES	816.969.1940
LEE'S SUMMIT PUBLIC WORKS	816.969.1800
SPIRE (MGE)	314.342.0500
KANSAS CITY POWER & LIGHT	8700 EAST FRONT STREET KANSAS CITY, MO 64120 816.471.5275
TELEPHONE SERVICE	
AT&T	816.221.1781
CABLE TELEVISION SERVICE	
SPECTRUM	877.772.2253
GOOGLE FIBER	877.454.6959

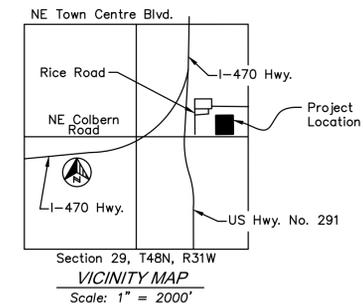
BENCHMARKS:

BENCHMARK #1:
MO BRAUN 3: ALUMINUM NGS DISK SET IN CONCRETE 5"± ABOVE GRADE 57"± WEST OF I-470 PAVED SHOULDER STAMPED "BRAUN 3, 1979"
PUBLISHED GRID COORDINATES (2003 ADJUSTMENT)
N: 310136.375M, E: 862153.323M
ELEV.=305.7M
GRID FACTOR: 0.99999001
GROUND COORDINATES (US SURVEY FEET):
N: 1017506.29', E: 2828581.25'

LEGAL DESCRIPTION:

ALL OF LOT 1, RICE ACRES, A SUBDIVISION IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, TOGETHER WITH ALL THAT PART OF AN UNPLATTED TRACT OF LAND, ALL LYING IN THE NORTHEAST QUARTER OF SECTION 29, TOWNSHIP 48 NORTH, RANGE 31 WEST, DESCRIBED BY TIMOTHY BLAIR WISWELL, MO-PLS 2009000067, OF OLSSON, INC. LC-366, AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF THE NORTHEAST QUARTER OF SECTION 29, TOWNSHIP 48 NORTH, RANGE 31 WEST; THENCE NORTH 88 DEGREES 28 MINUTES 52 SECONDS WEST, ON THE SOUTH LINE OF SAID NORTHEAST QUARTER, A DISTANCE OF 755.18 FEET TO A POINT ON THE SOUTHERLY EXTENSION OF THE WEST LINE OF LOT 1, RICE ACRES, A SUBDIVISION IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI; THENCE NORTH 01 DEGREE 23 MINUTES 04 SECONDS EAST, DEPARTING SAID SOUTH LINE, ON SAID SOUTHERLY EXTENSION, A DISTANCE OF 55.66 FEET TO THE SOUTHWEST CORNER OF SAID LOT 1, THE POINT OF BEGINNING; THENCE NORTH 01 DEGREE 23 MINUTES 04 SECONDS EAST, ON SAID WEST LINE, A DISTANCE OF 436.21 FEET TO THE NORTHWEST CORNER OF SAID LOT 1; THENCE SOUTH 88 DEGREES 38 MINUTES 41 SECONDS EAST, ON THE NORTH LINE OF SAID LOT 1 AND ITS EASTERLY EXTENSION, A DISTANCE OF 400.00 FEET TO A POINT; THENCE SOUTH 01 DEGREE 23 MINUTES 04 SECONDS WEST, DEPARTING SAID EASTERLY EXTENSION, A DISTANCE OF 436.21 FEET TO A POINT ON THE EASTERLY EXTENSION OF THE SOUTH LINE OF SAID LOT 1; THENCE NORTH 88 DEGREES 38 MINUTES 41 SECONDS WEST, ON SAID EASTERLY EXTENSION AND ON SAID SOUTH LINE, A DISTANCE OF 400.00 FEET TO THE POINT OF BEGINNING, CONTAINING 174,485 SQUARE FEET OR 4.0056 ACRES, MORE OR LESS.



RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/28/2020

SAPP DESIGN ARCHITECTS

3750 S. Fremont Ave.
Springfield, MO 65804 417.877.9600

Sapp Design Associates Architects, P.C.
Missouri State Certificate of Authority #030607

helix.

1629 Walnut
Kansas City, MO 64108 816.300.0300

SPECIAL NOTICES

In the event the client consents to allow, authorize or approve of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature wherever & whenever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

Mid-Continent Public Library
CONSTRUCTION DOCUMENTS FOR
COLBERN ROAD BRANCH
1000 N.E. COLBERN ROAD
LEE'S SUMMIT, MO 64086
JACKSON COUNTY

PACKAGE
10

Engineer of Record



Terry M Parsons, Engineer MO PE-2018010505

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Missouri State Certificate of Authority #001592

Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

Project No. Date Drawn

B18-0330 02.05.20 RLK

Drawing No.

C1.0

COVER SHEET

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GENERAL NOTES:

- 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!
- THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
- ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
- 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 FULFILL THE 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.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE THE CITY OF LEE'S SUMMIT, MO, EXCEPT WHERE SHOWN OTHERWISE. NOTIFY ENGINEER OF DISCREPANCIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
- 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.
- 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.
- THE CONTRACTOR SHALL LIMIT THE REMOVAL OF TREES TO THE LIMITS OF DEMOLITION SHOWN ON THE DEMOLITION PLAN.
- 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.
- ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
- 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.
- 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.
- 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.
- EXISTING TOPSOIL SHALL BE STRIPPED TO A POINT WHERE ALL VEGETATION IS REMOVED. SITE PREPARATION, GRADING AND EXCAVATION PROCEDURES SHALL CONFORM TO THE SPECIFICATIONS PROVIDED.
- THE CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO THE SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED.
- 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.
- 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.
- THE CONTOUR LINES SHOWN ARE FOR MASS GRADING PURPOSES.
- EXISTING CONTOURS REPRESENT MASS GRADING ELEVATIONS.
- THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS OTHERWISE SHOWN BY CONTOURS OR SPOT ELEVATIONS.
- THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE IN THE BORROW AREA.
- 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.
- 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.
- BY ACCEPTING AND UTILIZING ANY ELECTRONIC FILE OF ANY DRAWING, REPORT OR DATA TRANSMITTED BY OLSSON ASSOCIATES (OA), 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 OA, 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 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 OA AND THE ELECTRONIC FILES TRANSFERRED HEREWITH, THE SIGNED AND SEALED ORIGINAL DOCUMENTS SHALL GOVERN. OA 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 IT 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 OA, 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 OA OR FROM ANY REUSE OF THE ELECTRONIC FILES WITHOUT THE PRIOR WRITTEN CONSENT OF OA.
- 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 CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS WITH CONFORMANCE TO CONTRACT DOCUMENTS.

- GENERAL CONSTRUCTION NOTE REGARDING SEQUENCING OF EROSION CONTROL - ALL PERIMETER SILT FENCE, EARTH DIKES, SEDIMENT BASINS, AND ROCK CONSTRUCTION ENTRANCES WILL BE INSTALLED BEFORE GRADING OPERATIONS BEGIN, EXCEPT THAT SILT FENCE WHICH IS TO BE PLACED ALONG THE BACK OF CURB FOR PROTECTION OF THE STREET. SILT FENCE AND EARTH DIKES THAT ARE PLACED BEFORE GRADING BEGINS WILL BE MAINTAINED BY THE GRADING CONTRACTOR UNTIL ALL UTILITIES ARE IN PLACE. THE SILT FENCE THAT IS PLACED ALONG THE BACK OF THE CURB OR RIGHT-OF-WAY WILL BE INSTALLED IMMEDIATELY AFTER THE CURB IS CONSTRUCTED. EROSION AND SEDIMENTATION CONTROLS ARE TEMPORARY AND MUST BE REMOVED BY THE CONTRACTOR AFTER CONSTRUCTION IS COMPLETE AND THE DISTURBED AREA IS AT LEAST 70% PERMANENTLY VEGETATED.
- HANDICAP PARKING STALLS SHALL BE SIGNED WITH CITY/ADA APPROVED SIGNAGE AND CONSTRUCTED IN STRICT ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF LEE'S SUMMIT 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.
- ALL WATER LINES SHALL BE INSTALLED PER THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF LEE'S SUMMIT, MO. ALL WATER LINES SHALL BE A MINIMUM OF 48 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN.
- ALL WATER LINES SHALL BE INSTALLED PER CITY STANDARDS. ALL WATER LINES SHALL BE A MINIMUM OF 48 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN.
- ALL EXTERIOR CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI, SHALL MEET KCMMB STANDARDS AND SPECIFICATIONS, AND SHALL BE AIR ENTRAINED. FLYASH IS NOT A SUITABLE REPLACEMENT FOR PORTLAND CEMENT.
- ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND.
- CONCRETE PAVEMENT JOINTS SHALL BE CONSTRUCTED AS FOLLOWS (REFER TO HARDSCAPE PLANS FOR SPECIFIC TREATMENT OF THESE AREAS):
 - CONTROL JOINTS SPACED AT INTERVALS NOT GREATER THAN 12 FEET AND TOOLED TO 1/3 THE SLAB THICKNESS.
 - CONSTRUCTION JOINTS AT THE END OF EACH POUR AND WHEN PAVING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE.
 - ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABUTS THE BUILDING, DRAINAGE STRUCTURES AND OTHER FIXED STRUCTURES, CONSTRUCTED WITH A 1/2" 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.
- 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.
- 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.

GENERAL UTILITY NOTES

- THE SIZE AND LOCATION OF SERVICES SHALL BE VERIFIED WITH THE ARCHITECTURAL AND MEP PLANS PRIOR TO CONSTRUCTION. IF DISCREPANCIES EXIST, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SLEEVING UNDER PAVING AREAS WHERE NECESSARY.
- INSTALL ALL PIPE LENGTHS, BENDS AND FITTINGS NECESSARY FOR UTILITY CONNECTIONS.
- CONTRACTOR SHALL VERIFY ALL CROSSING ELEVATIONS AND LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION OF STORM LINES AND ALL UTILITY SERVICE CONNECTIONS. ANY CONFLICTS SHALL BE MADE KNOWN TO THE ENGINEER AND RESOLVED PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY FIRE SERVICE SIZE WITH SPRINKLER DESIGNER/CONTRACTOR PRIOR TO CONSTRUCTION AND INSTALLATION OF METER/BACKFLOW PREVENTER AND SERVICES. NOTIFY ENGINEER OF ALTERATIONS.
- CONTRACTOR RESPONSIBLE FOR PAYING ALL TAP AND CONNECTION FEES AND SHALL CONTRACT AND PAY FOR ANY REQUIRED SUB CONTRACTORS BY UTILITY COMPANIES.
- REFERENCE MEP PLANS FOR BUILDING CONNECTIONS.
- CONTRACTOR TO REPAIR ALL AREA DAMAGED BY CONSTRUCTION TO EXISTING CONDITIONS OR BETTER.
- BACK FLOW PREVENTION TO BE PROVIDED INSIDE BUILDING. SEE MEP AND ARCHITECTURAL PLANS FOR DETAILS.
- LOCATION FOR POWER SHOWN IS APPROXIMATE AND SUBJECT TO CHANGE. CONTRACTOR TO VERIFY FINAL LOCATION AND DESIGN WITH UTILITY COMPANY PRIOR TO CONSTRUCTION.
- CONTRACTOR TO COORDINATE LIGHT POLE LOCATIONS WITH OWNER, STORM SEWER INSTALLATION AND UTILITY COMPANIES PRIOR TO INSTALLATION TO AVOID CONFLICTS. NOTIFY ENGINEER AND ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION.
- WATER METER CANNOT BE INSTALLED IN THE BUILDING.
- CONTRACTOR SHALL COORDINATE CABLE/FIBER OPTIC CONDUIT AND SERVICE INSTALLATION WITH UTILITY COMPANY.
- ALL TAPS AND CONNECTIONS FOR FIRE AND DOMESTIC WATER SERVICES ARE TO BE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT STANDARDS AND SPECIFICATIONS.
- CONTRACTOR TO COORDINATE POWER ROUTING TO MONUMENT SIGNS NOT SHOWN ON PLANS.
- ALL ROOF DRAIN AND DOWNSPOUT HEADER PIPES SHALL BE 12" HDPE PIPE AND INSTALLED AT 1.00% MINIMUM SLOPE UNLESS OTHERWISE NOTED WITHIN THIS PLAN. ALL BENDS AND FITTINGS NEEDED TO BUILD ROUTING AS SHOWN SHALL BE INCLUDED IN BID.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY FITTINGS TO COMPLETE ROOF DRAIN AND DOWNSPOUT CONNECTIONS TO BUILDINGS. ALL ROOF DRAIN AND DOWNSPOUT CONNECTIONS / FITTINGS, INCLUDING BUT NOT LIMITED TO BENDS AND TEES, SHALL BE MADE OF HDPE PIPE UNLESS OTHERWISE NOTED WITHIN THIS PLAN.

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
04/28/2020



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.

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV\WORK PACKAGE 10\C_GLP_0180330.dwg
 DATE: Apr 17, 2020 9:38am XREFS: C:\TBLK_018330 C:\XBASE_018330 C:\PBASE_018330 C:\PBASE_161023 C:\PSURF_018330
 USER: tparsons A_PBASE_0161023

SAPP DESIGN ARCHITECTS
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 Springfield, MO 65804 417.877.9600

Sapp Design Associates Architects, P.C.
 Missouri State Certificate of Authority #030607



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 Kansas City, MO 64108 816.300.0300

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Mid-Continent Public Library
 CONSTRUCTION DOCUMENTS FOR
COLBERN ROAD BRANCH
 1000 N.E. COLBERN ROAD
 LEE'S SUMMIT, MO 64086
 JACKSON COUNTY



Engineer of Record

 Terry M Parsons, Engineer MO PE-2018010505

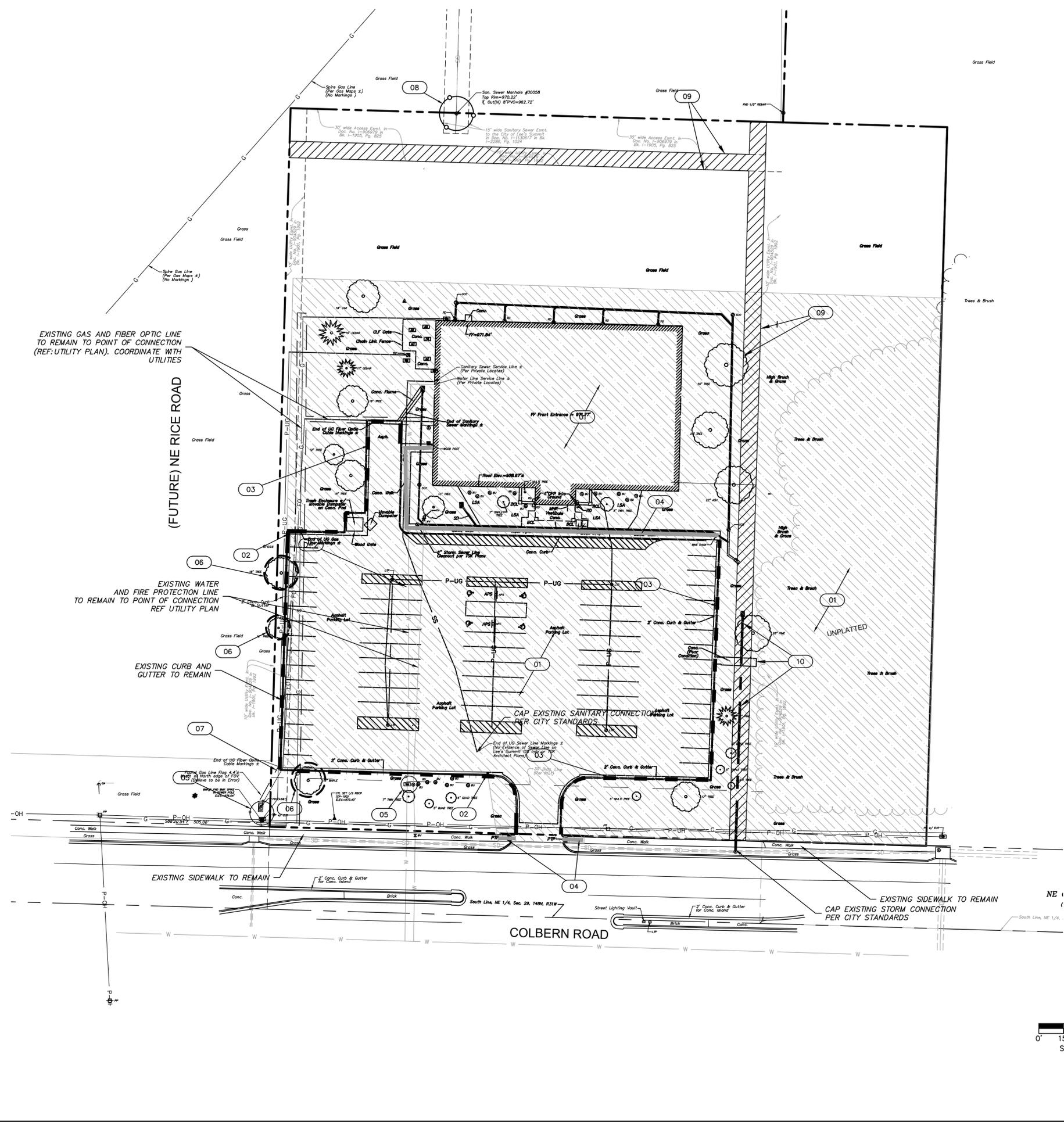
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Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

Project No.	Date	Drawn
B18-0330	02.05.20	RLK

Drawing No.
C1.1
GENERAL NOTES
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DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV\WORK PACKAGE 10\C_DEM_0180330.dwg
 DATE: Apr 17, 2020 9:38am XREFS: C:\TBLK_018330 C:\XBASE_018330 USER: tparsons



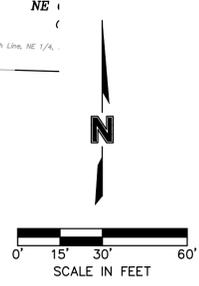
DEMOLITION NOTES

1. CONTRACTOR TO PRESERVE ALL SURVEY CONTROL.
2. CONTRACTOR TO COMPLETE DEMOLITION PER THE INTENT OF THESE PLANS.
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 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 OF ANY EXCAVATION TO COORDINATE UTILITY LOCATIONS.
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 THESE PLANS.
5. CONTRACTOR TO REMOVE ALL TREES AND BRUSH FOR INSTALLATION OF IMPROVEMENTS.
6. REMOVAL AND DISPOSAL OF BUSHES AND TREES SMALLER THAN 12" IN DIAMETER SHALL BE CONSIDERED SUBSIDIARY TO THE PRICE BID FOR CLEARING AND GRUBBING.
7. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE CONTRACTOR.
8. DO NOT DISRUPT UTILITY SERVICE TO ADJACENT BUSINESSES OR RESIDENCES WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER.
9. DO NOT DISRUPT TRAFFIC ON ADJACENT PUBLIC STREETS WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY.
10. ALL SIDEWALK AND PAVEMENT TO REMAIN SHALL BE PROTECTED IN PLACE INCLUDING PROTECTION FROM DAMAGE CAUSED BY REMOVAL OF ABUTTING PAVEMENT. CONTRACTOR SHALL SAW CUT WHERE NECESSARY.
11. CONTRACTOR SHALL GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DISCONNECTION, DEMOLITION, AND REMOVAL OF SERVICE LINES. CAP ALL LINES BEFORE PROCEEDING WITH WORK ON THIS CONTRACT.
12. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANIES WORK FORCE AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES.
13. CONTRACTOR SHALL PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. TO THE BEST PRACTICES AND AS APPROVED BY THE ENGINEER AND THE CITY.
14. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
15. DEMOLITION OF BUILDINGS SHALL INCLUDE THE BUILDING STRUCTURE, PAD, FOOTINGS, FOUNDATIONS, BASEMENT WALLS, BASEMENT FLOORS, TRUCK DOCKS, STEPS, DECKS, ALL ITEMS REMAINING IN BUILDING, ALL BUILDING UTILITY SERVICES, SIDEWALKS, AND BACKFILLING AND RESTORING REMAINING EXCAVATIONS, BASEMENTS AND TRENCHES PER SPECIFICATIONS. ALL REMOVALS SHALL INCLUDE BUT NOT BE LIMITED TO ITEMS SUCH AS BUILDING FOOTINGS, SUBSURFACE STRUCTURES, SURFACE STRUCTURES, DRAINAGE STRUCTURES, PIPES, PAVEMENT OF ALL TYPES, CURB & GUTTER, SIDEWALK, ROCK, ABANDONED UTILITIES AS DIRECTED BY THE ENGINEERS, TREES, TREE ROOTS, ANY UNKNOWN MATERIALS, AND UNSUITABLE SUBGRADE MATERIALS. THE SITE SHOULD BE CLEARED FOR THE PROPOSED IMPROVEMENTS PER CITY REQUIREMENTS.
16. ALL LIGHT POLE DEMOLITION SHALL INCLUDE FIXTURES, BASES AND WIRING.
17. ALL UTILITY DEMOLITION SHALL INCLUDE METERS, MANHOLES AND OTHER STRUCTURES ASSOCIATED WITH THE UTILITY SERVICE LINE.

KEY NOTE LEGEND	
(01)	REMOVE EXISTING INFRASTRUCTURE, BUILDINGS, VEGETATION AND PAVEMENT FOR THE PURPOSE OF PROJECT CONSTRUCTION.
(02)	SAWCUT EXISTING PAVEMENT
(03)	REMOVE EXISTING CURB & GUTTER
(04)	REMOVE EXISTING SIDEWALK
(05)	PROTECT EXISTING UTILITY EQUIPMENT/ MANHOLE
(06)	INSTALL TREE PROTECTION. SEE DETAIL ON C6.5
(07)	COORDINATE DEMOLITION WITH POWER COMPANY
(08)	PROTECT EXISTING SANITARY SEWER TO REMAIN
(09)	VACATE EXISTING EASEMENT
(10)	REMOVE EXISTING STORM SEWER

LEGEND

----- PROPERTY LINE



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 04/28/2020

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helix.

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 Kansas City, MO 64108 816.300.0300

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Mid-Continent Public Library
 CONSTRUCTION DOCUMENTS FOR
COLBERN ROAD BRANCH
 1000 N.E. COLBERN ROAD
 LEE'S SUMMIT, MO 64086
 JACKSON COUNTY

PACKAGE **10**

Engineer of Record

 Terry M Parsons, Engineer MO PE-2018010505

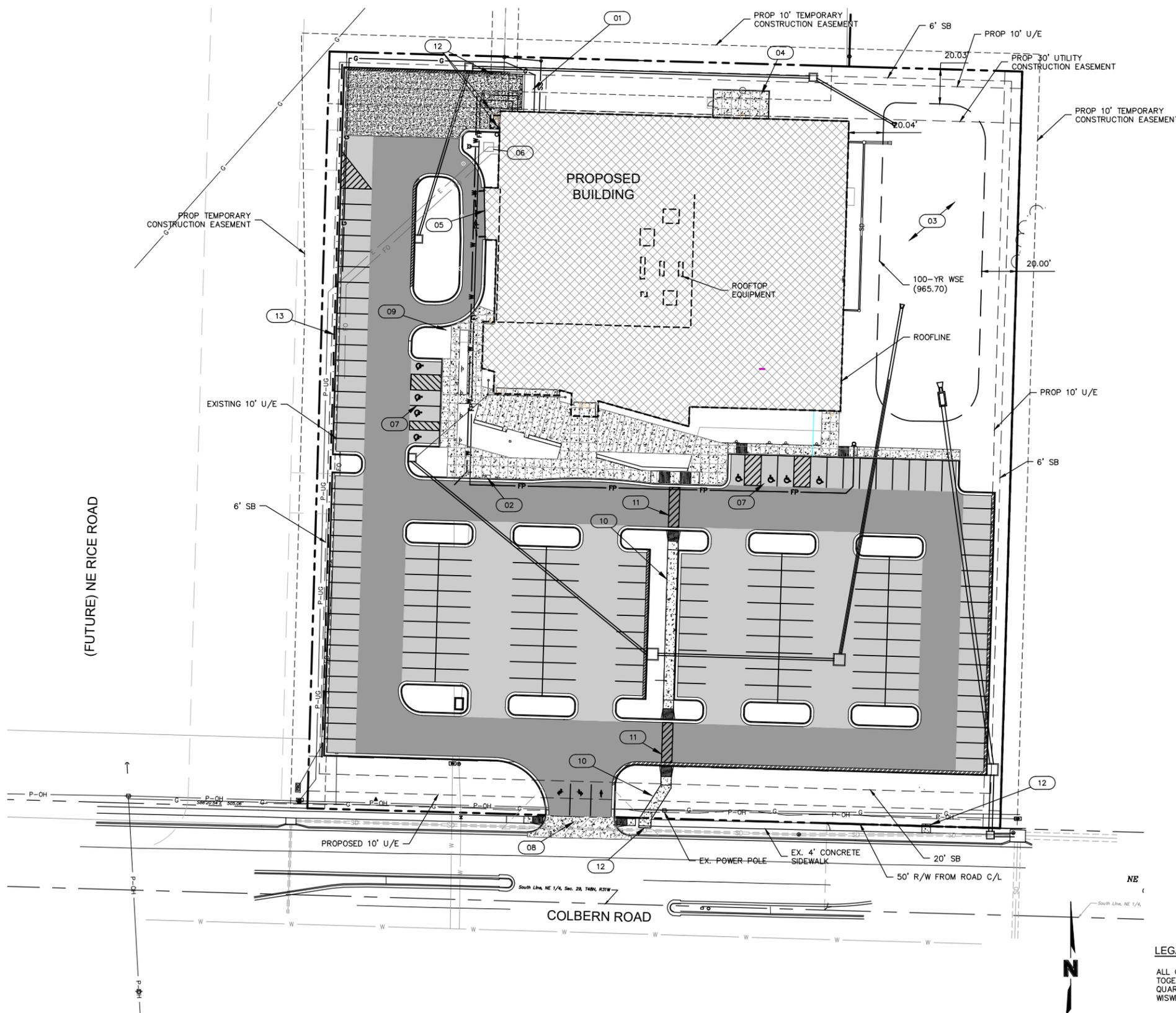
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Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

Project No. B18-0330 Date 02.05.20 Drawn RLK

Drawing No. **C2.0**
DEMOLITION PLAN
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 USER: tparsons A_PBASE_161023 C_PBASE_018530



SITE DATA		
ZONING & SITE AREA		
PROPOSED USE:	PUBLIC LIBRARY	
SITE AREA		
LOT 2 (AS DESCRIBED):	4.00 ACRES (174,237 SF)	ZONING CP-2
IMPERVIOUS:	2.58 ACRES (112,384 SF) (64%)	
PERVIOUS:	1.42 ACRES (61,855 SF) (36%)	
FAR (0.55 MAX):	0.15	
BUILDING AREA		
BUILDING TYPE	# STORIES	SQUARE FOOTAGE
BUILDING	1	34,030 SF
PARKING		
USE	REQUIRED	PROVIDED
LIBRARY	4 PER 1000 SF = 136	158
ADA	4 (PER CITY TABLE)	8
TOTAL	136	166 (INCLUDING ADA)

NOTE:
 ACCORDING TO MDNR STATE OIL & GAS COUNSEL THERE ARE NO OIL AND GAS WELLS LOCATED WITHIN OR ADJACENT TO THE PROPERTY.

THERE ARE NO FEMA DELINEATED FLOODPLAINS ON THE PROPERTY.

- LEGEND**
- PROPERTY LINES
 - RIGHT-OF-WAY LINES
 - LOT LINES
 - ROAD CENTERLINE
 - EASEMENT LINES
 - SETBACK LINES
 - EXISTING GRADE CONTOURS
 - PROPOSED GRADE CONTOURS
 - P-OH OVERHEAD ELECTRIC
 - P-UG UNDERGROUND ELECTRIC
 - TEL UNDERGROUND TELEPHONE
 - FO UNDERGROUND FIBER OPTIC
 - G GAS LINE
 - W WATER LINE
 - FP FIRE PROTECTION LINE
 - SS STORM SEWER LINE
 - SS SANITARY SEWER LINE
 - ACCESSIBLE SIDEWALK RAMP
 - CONCRETE CURB & GUTTER TYPE "CG-1" RE: DETAILS
 - CONCRETE CURB & GUTTER TYPE "CG-1 DRY" RE: DETAILS
 - CONCRETE "C-1" STRAIGHT CURB
 - PROPOSED CONCRETE SIDEWALK
 - PROPOSED HEAVY DUTY CONCRETE PAVEMENT
 - PROPOSED LIGHT DUTY ASPHALT
 - PROPOSED HEAVY DUTY ASPHALT

- KEYNOTES:**
- 01 TRASH ENCLOSURE RE: DETAIL ON SHEET 10.5
 - 02 BOOK DROP
 - 03 EXTENDED DRY DETENTION BASIN
 - 04 CONCRETE PATIO
 - 05 DRIVE-THRU WINDOW
 - 06 POWER TRANSFORMER
 - 07 ADA ACCESSIBLE SIGNAGE AND STRIPING
 - 08 WIDENED COMMERCIAL ENTRANCE (40') WITH RECONSTRUCTED ADA RAMP
 - 09 REMOTE FIRE DEPARTMENT CONNECTION
 - 10 6' SIDEWALK
 - 11 CROSSWALK STRIPING
 - 12 BOLLARD
 - 13 CONSTRUCT 6" EARTHEN BERM TO DIVERT OFF DRAINAGE FROM THE EAST
 - 14 KNOX BOX ON BUILDING
 - 15 ADA TURNING AREA

LEGAL DESCRIPTION

ALL OF LOT 1, RICE ACRES, A SUBDIVISION IN THE CITY OF LEE'S SUMMIT, JACKSONCOUNTY,MISSOURI, TOGETHER WITH ALL THAT PART OF AN UNPLATTED TRAC T OF LAND, ALL LYING IN THE NORTHEAST QUARTER OF SECTION 29, TOWNSHIP 48 NORTH, RANGE 31 WEST, DESCRIBED BY TIMOTHY BLAIR WISWELL, MO-PLS 2009000067, AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF THE NORTHEAST QUARTER OF SECTION 29, TOWNSHIP 48 NORTH, RANGE 31 WEST; THENCE NORTH 88 DEGREES 28 MINUTES 52 SECONDS WEST, ON THE SOUTH LINE OF SAID NORTHEAST QUARTER, A DISTANCE OF 755.18 FEET TO A POINT ON THE SOUTHERLY EXTENSION OF THE WEST LINE OF LOT 1, RICE ACRES, A SUBDIVISION IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI; THENCE NORTH 01 DEGREE 23 MINUTES 04 SECONDS EAST, DEPARTING SAID SOUTH LINE, ON SAID SOUTHERLY EXTENSION, A DISTANCE OF 55.66 FEET TO THE SOUTHWEST CORNER OF SAID LOT 1, THE POINT OF BEGINNING; THENCE NORTH 01 DEGREE 23 MINUTES 04 SECONDS EAST, ON SAID WEST LINE, A DISTANCE OF 436.21 FEET TO THE NORTHWEST CORNER OF SAID LOT 1; THENCE SOUTH 88 DEGREES 38 MINUTES 41 SECONDS EAST, ON THE NORTH LINE OF SAID LOT 1 AND ITS EASTERLY EXTENSION, A DISTANCE OF 400.00 FEET TO A POINT; THENCE SOUTH 01 DEGREE 23 MINUTES 04 SECONDS WEST, DEPARTING SAID EASTERLY EXTENSION, A DISTANCE OF 436.21 FEET TO A POINT ON THE EASTERLY EXTENSION OF THE SOUTH LINE OF SAID LOT 1; THENCE NORTH 88 DEGREES 38 MINUTES 41 SECONDS WEST, ON SAID EASTERLY EXTENSION AND ON SAID SOUTH LINE, A DISTANCE OF 400.00 FEET TO THE POINT OF BEGINNING, CONTAINING 174,485 SQUARE FEET OR 4.0056 ACRES, MORE OR LESS.

RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 04/28/2020

SAPP DESIGN ARCHITECTS

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 Springfield, MO 65804 417.877.9600

Sapp Design Associates Architects, P.C.
 Missouri State Certificate of Authority #000607

helix

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 Kansas City, MO 64108 816.300.0300

SPECIAL NOTICES

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Mid-Continent Public Library
 CONSTRUCTION DOCUMENTS FOR
COLBERN ROAD BRANCH
 1000 N.E. COLBERN ROAD
 LEE'S SUMMIT, MO 64086
 JACKSON COUNTY

PACKAGE **10**

Engineer of Record
ISSUE FOR CONSTRUCTION
 02.05.20

Terry M Parsons, Engineer MO PE-2018010505

olsson

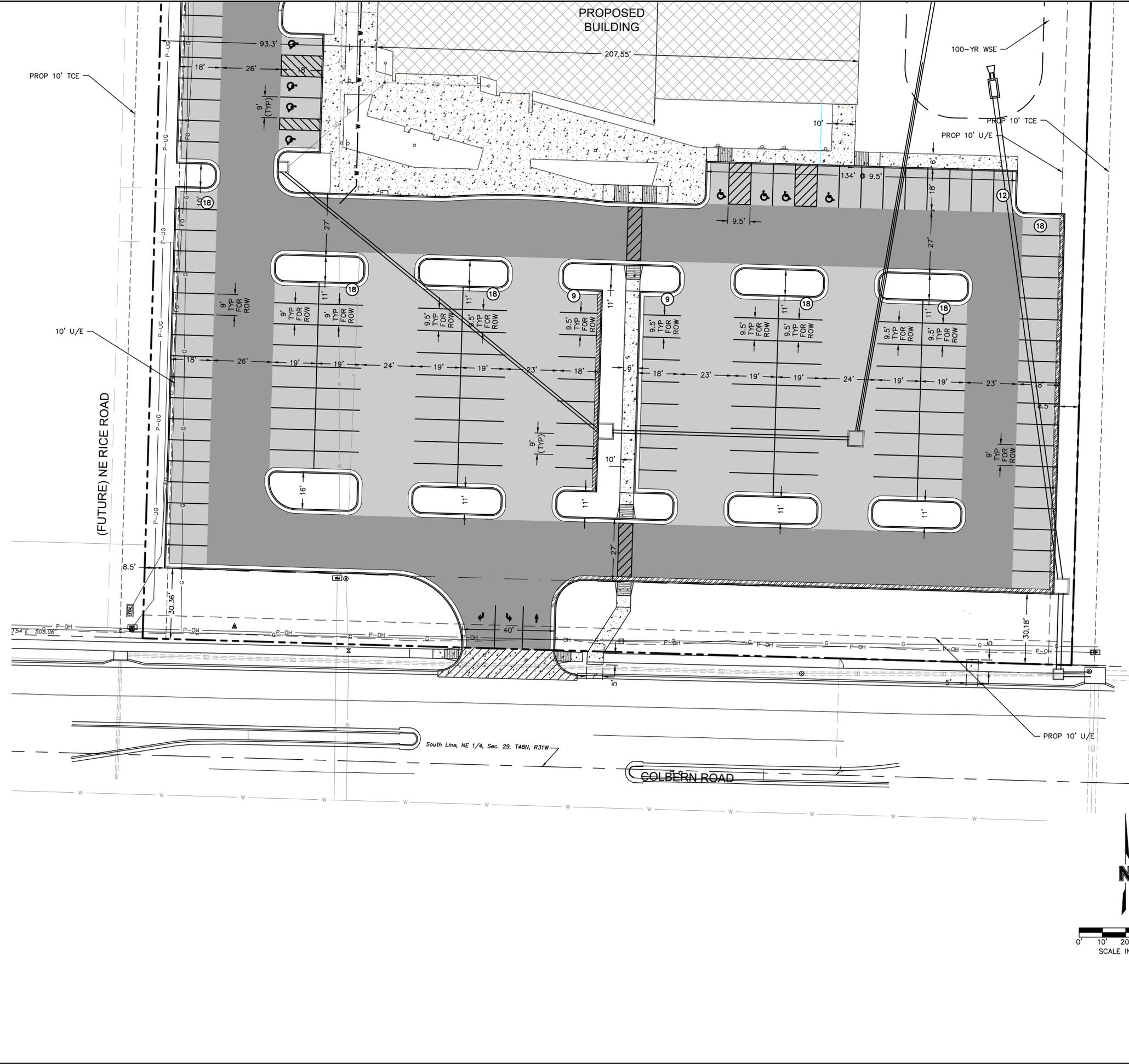
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 Overland Park, KS 66213
 TEL 913.381.1170
 FAX 913.381.1174
 www.olsson.com

Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20

Project No. B18-0330 Date 02.05.20 Drawn RLK

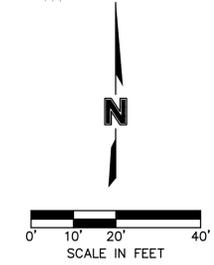
Drawing No. **C3.0**
FINAL DEVELOPMENT PLAN
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 USER: tparsons A_PBASE_0161023 C_PSUFR_018330



- EXISTING CONDITIONS LEGEND**
- P—OH — OVERHEAD ELECTRIC
 - P—UG — UNDERGROUND ELECTRIC
 - TEL — UNDERGROUND TELEPHONE
 - FO — UNDERGROUND FIBER OPTIC
 - G — GAS LINE
 - W — WATER LINE
 - SD — STORM SEWER LINE
 - SS — SANITARY SEWER LINE
 - - - - - EXISTING GRADE CONTOURS

- PROPOSED CONDITIONS LEGEND**
- E — PROPOSED UNDERGROUND ELECTRIC
 - FO — PROPOSED FIBER OPTIC
 - W — PROPOSED WATER LINE
 - FP — PROPOSED FIRE PROTECTION LINE
 - SD — PROPOSED STORM SEWER LINE
 - SS — PROPOSED SANITARY SEWER SERVICE
 - CG-1 — CONCRETE CURB & GUTTER (TYPE CG-1)
 - CG-1 DRY — CONCRETE CURB & GUTTER (TYPE CG-1 DRY)
 - C-1 — CONCRETE "C-1" STRAIGHT CURB
 - PB — PROPOSED BUILDING
 - PCS — PROPOSED CONCRETE SIDEWALK
 - PCD — PROPOSED COMMERCIAL DRIVE
 - PLA — PROPOSED LIGHT DUTY ASPHALT
 - PHA — PROPOSED HEAVY DUTY ASPHALT
 - PC — PROPOSED PARKING COUNT



RELEASE FOR
 CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 04/28/2020

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 Kansas City, MO 64108 816.300.0300

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 CONSTRUCTION DOCUMENTS FOR
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PACKAGE
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Terry M Parsons, Engineer MO PE-2018010505

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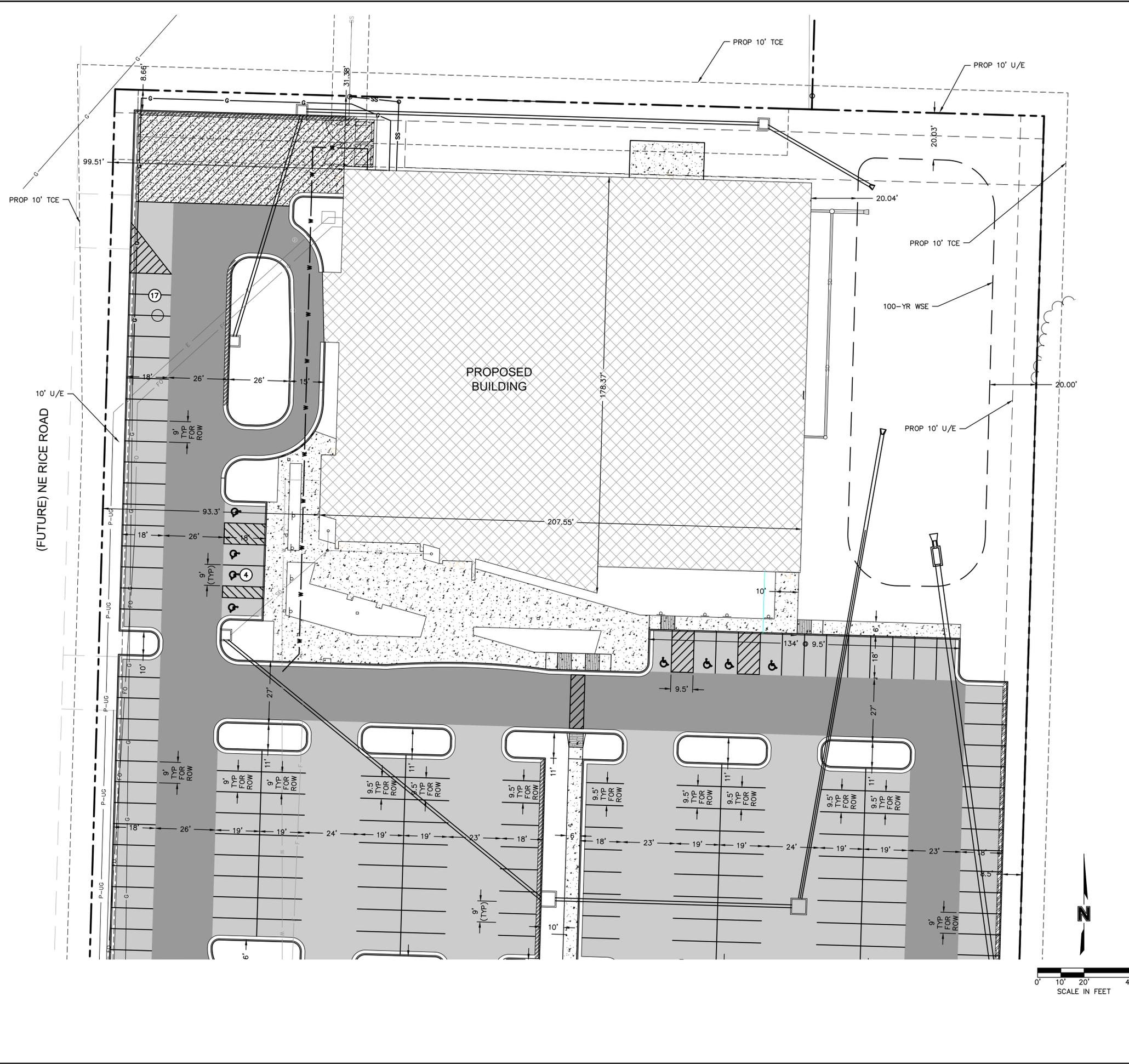
Revision No.	Description	Date
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2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

Project No. B18-0330 Date 02.05.20 Drawn RLK

Drawing No. **C4.0**
SITE DIMENSION PLAN

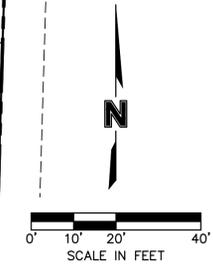
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- EXISTING CONDITIONS LEGEND**
- PROPERTY LINES
 - EASEMENT LINES
 - P-OH OVERHEAD ELECTRIC
 - P-UG UNDERGROUND ELECTRIC
 - TEL UNDERGROUND TELEPHONE
 - FO UNDERGROUND FIBER OPTIC
 - G GAS LINE
 - W WATER LINE
 - SS STORM SEWER LINE
 - SS SANITARY SEWER LINE
 - - - - - EXISTING GRADE CONTOURS

- PROPOSED CONDITIONS LEGEND**
- E PROPOSED UNDERGROUND ELECTRIC
 - FO PROPOSED FIBER OPTIC
 - W PROPOSED WATER LINE
 - FP PROPOSED FIRE PROTECTION LINE
 - SD PROPOSED STORM SEWER LINE
 - SS PROPOSED SANITARY SEWER SERVICE
 - CONCRETE CURB & GUTTER (TYPE CG-1)
 - CONCRETE CURB & GUTTER (TYPE CG-1 DRY)
 - CONCRETE "C-1" STRAIGHT CURB
 - PROPOSED BUILDING
 - PROPOSED CONCRETE SIDEWALK
 - PROPOSED PCC PAVEMENT
 - PROPOSED LIGHT DUTY ASPHALT
 - PROPOSED HEAVY DUTY ASPHALT
 - XX PROPOSED PARKING COUNT



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
 04/28/2020

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 Springfield, MO 65804 417.877.9600

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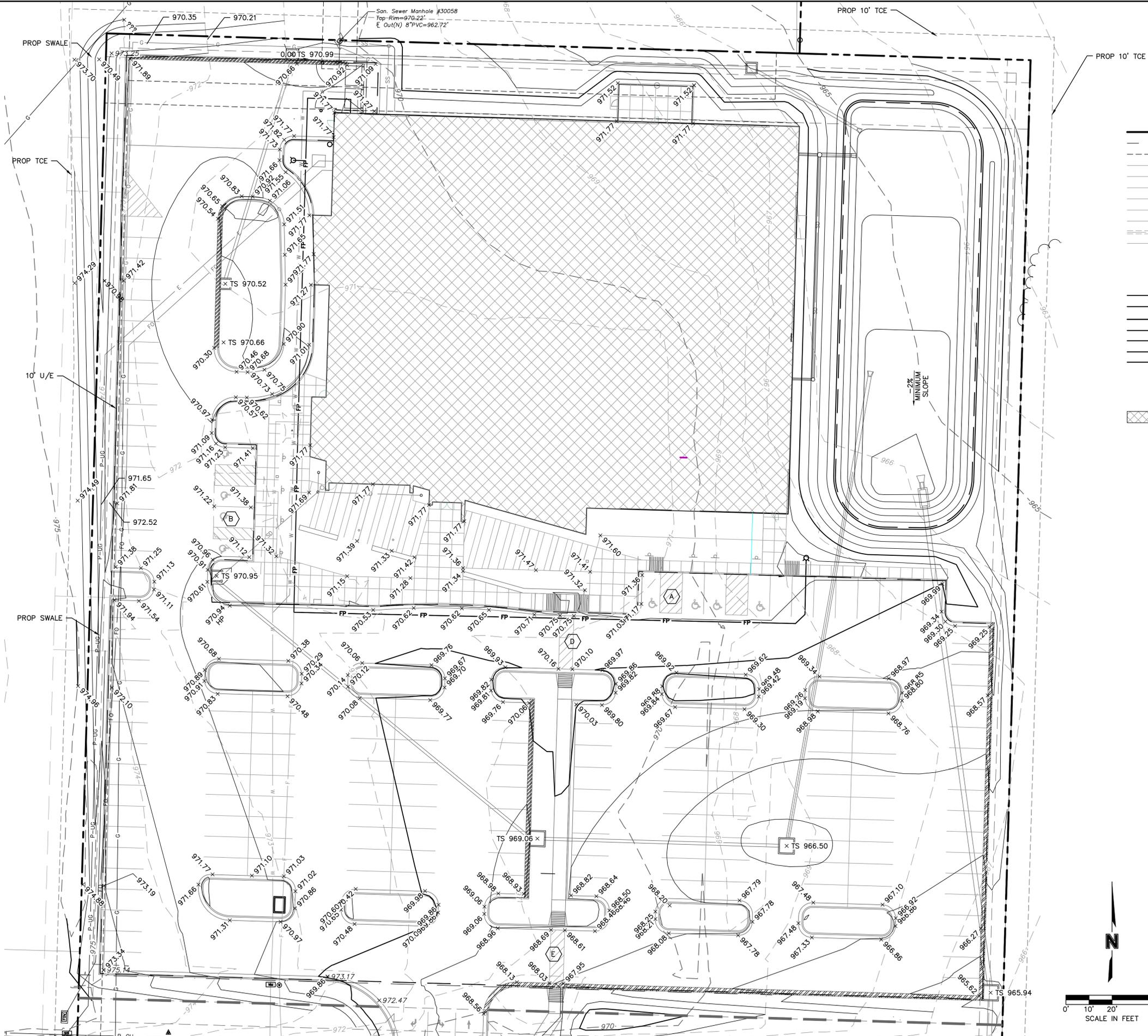
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B18-0330	02.05.20	RLK

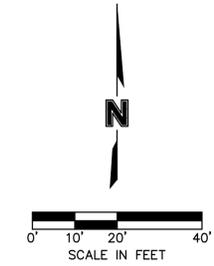
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C4.1
 SITE DIMENSION
 PLAN

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- PROPERTY LINES
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 - EASEMENT LINES
 - P-OH OVERHEAD ELECTRIC
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 - TEL UNDERGROUND TELEPHONE
 - FO UNDERGROUND FIBER OPTIC
 - G GAS LINE
 - W WATER LINE
 - SD--- STORM SEWER LINE
 - SS SANITARY SEWER LINE
-
- E PROPOSED UNDERGROUND ELECTRIC
 - FO PROPOSED FIBER OPTIC
 - W PROPOSED WATER LINE
 - FP PROPOSED FIRE PROTECTION LINE
 - SD PROPOSED STORM SEWER LINE
 - T PROPOSED TURF DRAIN LINE
 - SS PROPOSED SANITARY SEWER SERVICE
- CONCRETE CURB & GUTTER - (TYPE CG-1)
 - CONCRETE CURB & GUTTER - (TYPE CG-1 DRY)
 - PROPOSED BUILDING
 - ADA GRADING DETAIL (SEE SHEET C5.2 AND C5.3)
 - CONCRETE "C-1" STRAIGHT CURB



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COLBERN ROAD BRANCH

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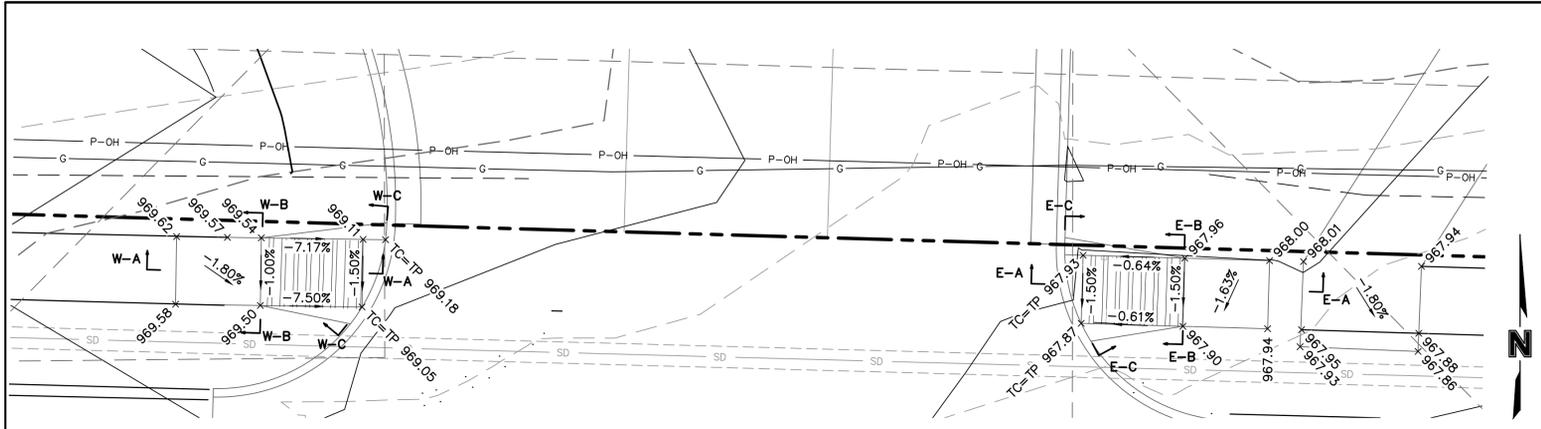
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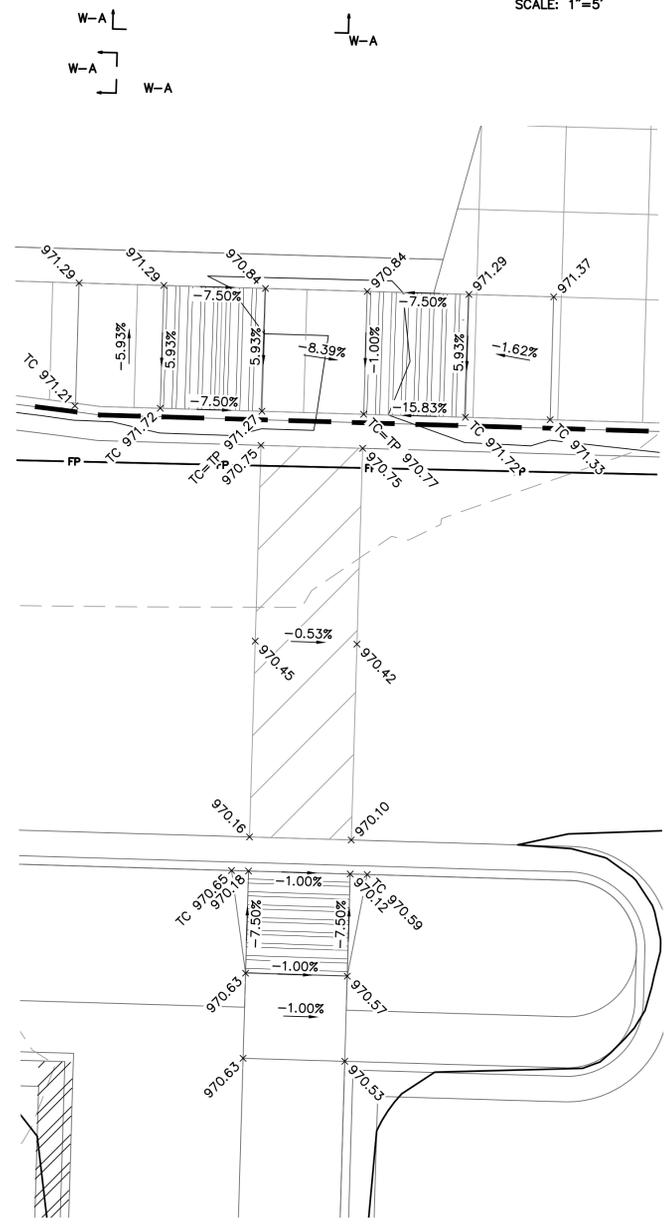
C5.1 GRADING PLAN

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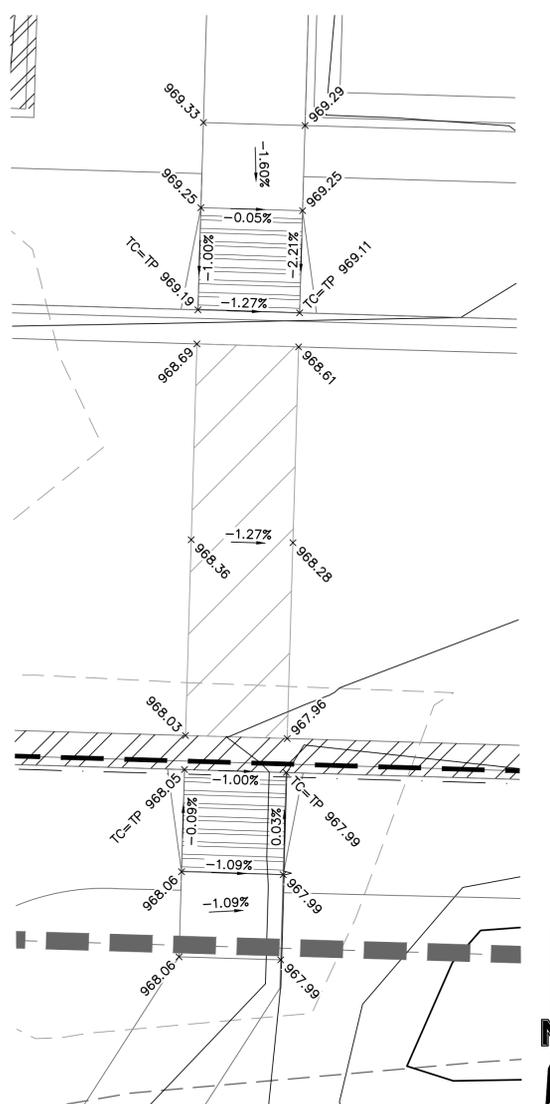
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 USER: tparsons L_PBASE_161023



GRADING DETAIL C
SCALE: 1"=5'

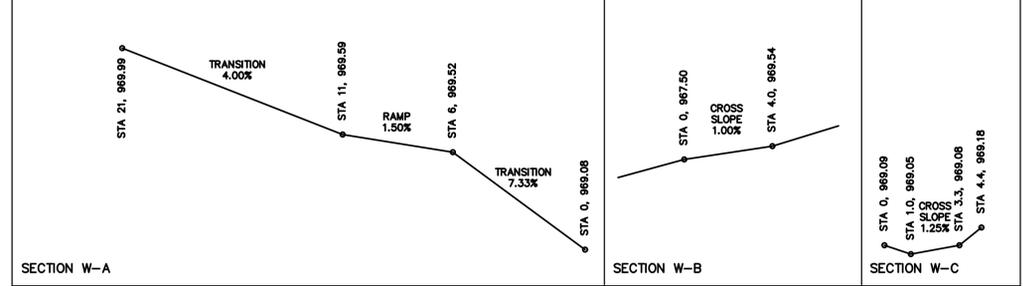


GRADING DETAIL D
SCALE: 1"=5'

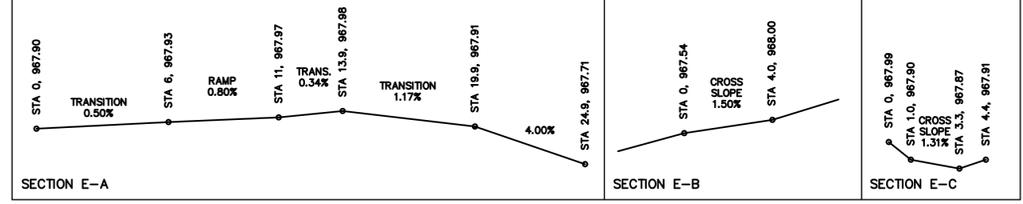


GRADING DETAIL E
SCALE: 1"=5'

RAMP WEST OF DRIVE



RAMP EAST OF DRIVE



ADA RAMP PROFILES FOR GRADING DETAIL C
SCALE: NTS

EXISTING CONDITIONS LEGEND

- PROPERTY LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- P-OH OVERHEAD ELECTRIC
- P-UG UNDERGROUND ELECTRIC
- TEL UNDERGROUND TELEPHONE
- FO UNDERGROUND FIBER OPTIC
- G GAS LINE
- W WATER LINE
- SS STORM SEWER LINE
- SS SANITARY SEWER LINE

PROPOSED CONDITIONS LEGEND

- E PROPOSED UNDERGROUND ELECTRIC
- FO PROPOSED FIBER OPTIC
- W PROPOSED WATER LINE
- FP PROPOSED FIRE PROTECTION LINE
- SD PROPOSED STORM SEWER LINE
- T PROPOSED TURF DRAIN LINE
- SS PROPOSED SANITARY SEWER SERVICE
- CONCRETE CURB & GUTTER - (TYPE CG-1)
- CONCRETE CURB & GUTTER - (TYPE CG-1 DRY)
- CONCRETE "C-1" STRAIGHT CURB
- PROPOSED BUILDING

SAPP DESIGN ARCHITECTS

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CONSTRUCTION DOCUMENTS FOR
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1000 N.E. COLBURN ROAD
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JACKSON, MISSOURI

PACKAGE **10**



Terry M Parsons, Engineer MO PE-2018010505

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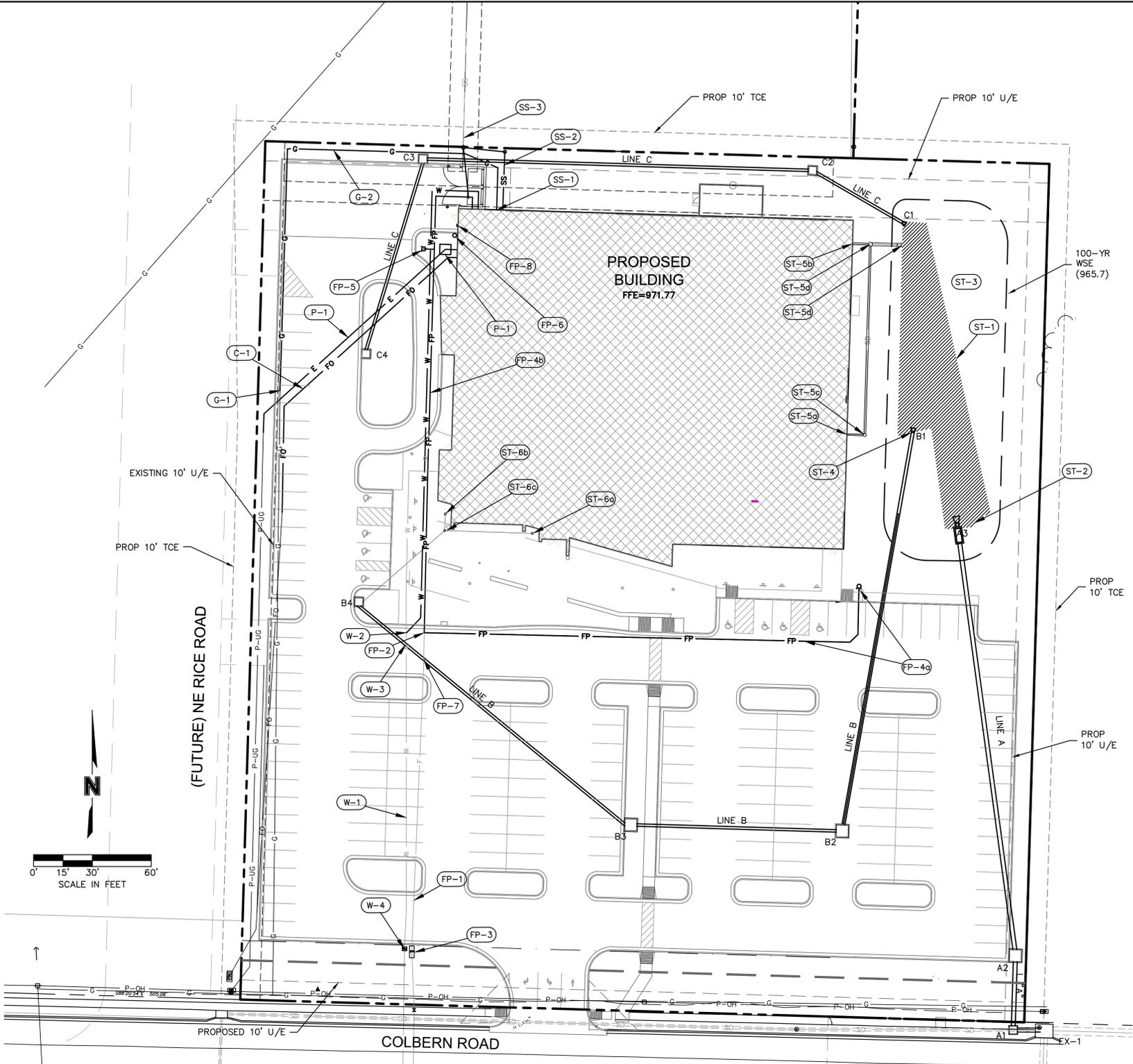
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Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

Project No. B18-0330 Date 02.05.20 Drawn RLK

Drawing No. **C5.3**
GRADING DETAILS

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EXISTING CONDITIONS LEGEND

---	PROPERTY LINES
- - -	RIGHT-OF-WAY LINES
- - -	EASEMENT LINES
P-OH	OVERHEAD ELECTRIC
P-UG	UNDERGROUND ELECTRIC
TEL	UNDERGROUND TELEPHONE
FO	UNDERGROUND FIBER OPTIC
G	GAS LINE
W	WATER LINE
SS	STORM SEWER LINE
SS	SANITARY SEWER LINE

PROPOSED CONDITIONS LEGEND

E	PROPOSED UNDERGROUND ELECTRIC
FO	PROPOSED FIBER OPTIC
W	PROPOSED WATER LINE
FP	PROPOSED FIRE PROTECTION LINE
SD	PROPOSED STORM SEWER LINE
T	PROPOSED TURF DRAIN LINE
SS	PROPOSED SANITARY SEWER SERVICE
---	CONCRETE CURB & GUTTER
[Hatched Box]	PROPOSED BUILDING

UTILITY KEYNOTES: XX

WATER
 W-1 EXISTING 2" SERVICE LINE TO REMAIN
 W-2 EXTEND EXISTING SERVICE BY INSTALLING 181 LF OF 2" POLYETHYLENE PIPE (AWWA C901) TO PROPOSED BUILDING
 W-3 CONTRACTOR TO CONFIRM DEPTH OF EXISTING WATER LINE. RELOCATE IF NECESSARY AND MAINTAIN 42" MINIMUM DEPTH.
 W-4 EXISTING WATER METER TO REMAIN.

FIRE PROTECTION
 FP-1 EXISTING 6" FIRE SERVICE TO REMAIN
 FP-2 INSTALL 6x6x6 TEE ON EXISTING FIRE PROTECTION LINE
 FP-3 EXISTING BACK FLOW PREVENTOR TO REMAIN.
 FP-4a INSTALL 246 LF OF AWWA C900 6" FIRE LINE W/HYDRANT AND GATE VALVE
 FP-4b INSTALL 247 LF OF AWWA C900 6" FIRE LINE W/RELOCATED HYDRANT AND GATE VALVE
 FP-5 RELOCATE EXISTING HYDRANT
 FP-6 INSTALL 2 LF OF AWWA C900 6" FIRE LINE W/REMOTE FIRE DEPARTMENT CONNECTION (4" STORZ TYPE FITTING) DIRECTLY ADJACENT TO BUILDING
 FP-7 CONTRACTOR TO CONFIRM DEPTH OF EXISTING FIRE LINE. RELOCATE IF NECESSARY AND MAINTAIN 42" MINIMUM DEPTH
 FP-9 INSTALL KNOX BOX

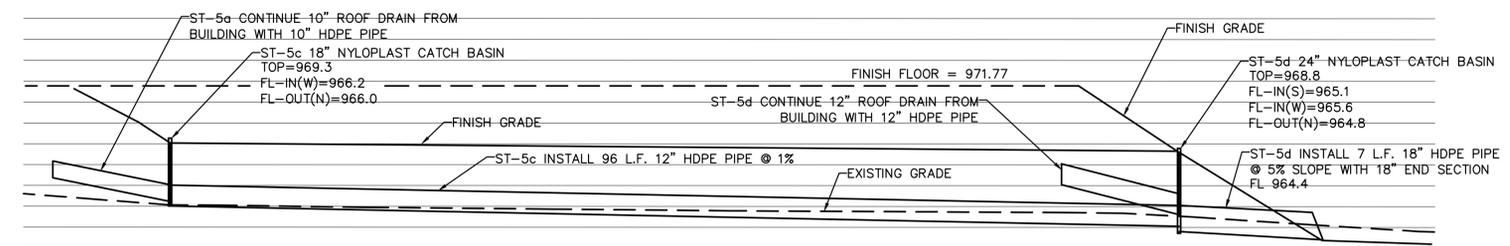
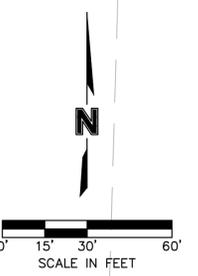
SANITARY SEWER
 SS-1 INSTALL 21 LF 4" PVC SERVICE @ 10.87% (FL=967.77)
 SS-2 INSTALL STANDARD CLEANOUT (FG=971.04, FL=965.49) AND INSTALL 26 LF 4" PVC SERVICE @ 10.87%
 SS-3 CONNECT TO EXISTING WYE ON THE EXISTING 8" MAIN (APPROX. FL=962.68)

STORM SEWER (REF: C7.0-C7.2 FOR STORM SEWER PLANS AND PROFILES)
 ST-1 INSTALL 3500 SF SCOUR STOP HDPE TRANSITION MAT PER MANUFACTURER'S SPECIFICATION
 ST-2 CONSTRUCT CONTROL STRUCTURE WITH 2 LF OF 30" HDPE AND FLARED END SECTION WITH TRASH RACK PER DETAIL
 ST-3 EXTENDED DRY DETENTION BASIN
 ST-4 INSTALL STD 24" FLARED END SECTION
 ST-5 ROOF DRAINS TO DETENTION BASIN
 a 10" ROOF DRAIN FROM BUILDING REF: PLUMBING PLANS
 b 12" ROOF DRAIN FROM BUILDING REF: PLUMBING PLANS
 c INSTALL 18" CATCH BASIN AND 96 LF OF 10" HDPE PIPE
 d INSTALL 24" CATCH BASIN AND 25 LF OF 18" HDPE PIPE W/END SECTION
 ST-6 AREA DRAINS (8" HDPE AND NYLOPLAST CATCH BASINS)
 a INSTALL 18" CATCH BASIN (FG=971.05, FL=968.05) AND 45 LF OF 8" HDPE PIPE
 b INSTALL 18" CATCH BASIN (FG=971.05, FL=968.05) AND 8 LF OF 8" HDPE PIPE
 c INSTALL 18" CATCH BASIN (FG=971.05, FL=967.60) AND 54 LF OF 8" HDPE PIPE AND CONNECT TO PROPOSED INLET (FL=967.06)

POWER
 P-1 PRIMARY SERVICE - COORDINATE WITH EVERGY.
 P-2 PROPOSED TRANSFORMER LOCATION COORDINATE WITH EVERGY AND MEP.

GAS
 G-1 NOT USED.
 G-2 INSTALL 2 1/2" GAS SERVICE TO PROPOSED BUILDING.
 G-3 RELOCATE EXISTING GAS MAIN AROUND PROPOSED BFP VAULT

COMMUNICATION
 C-1 RELOCATE EXISTING FIBER LINE (COORDINATE WITH UTILITY PROVIDER)



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 LEE'S SUMMIT, MISSOURI
 04/28/2020

SAPP DESIGN ARCHITECTS
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 Kansas City, MO 64108 816.300.0300

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 LEE'S SUMMIT, MO 64086
 JACKSON COUNTY

PACKAGE **10**

Engineer of Record

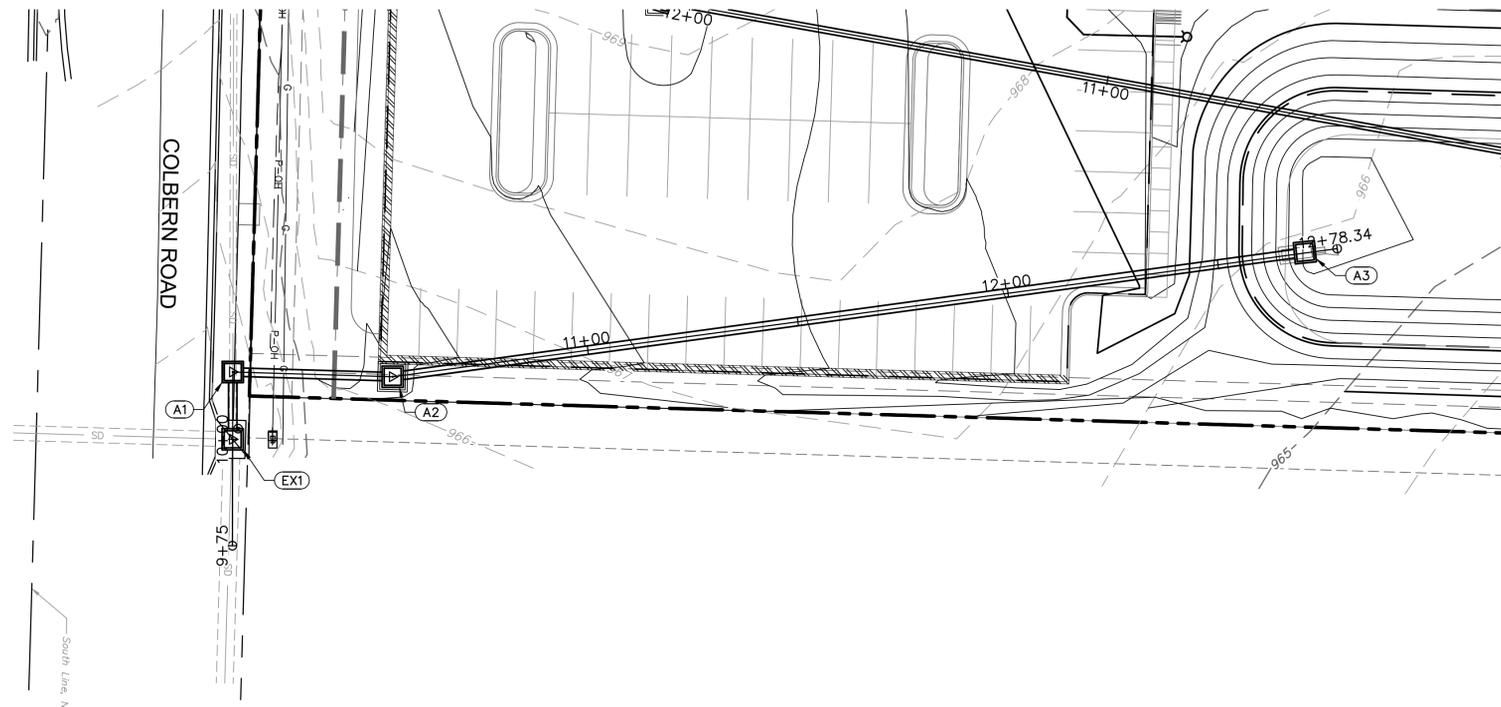
 Terry M. Parsons, Engineer MO PE-2018010505

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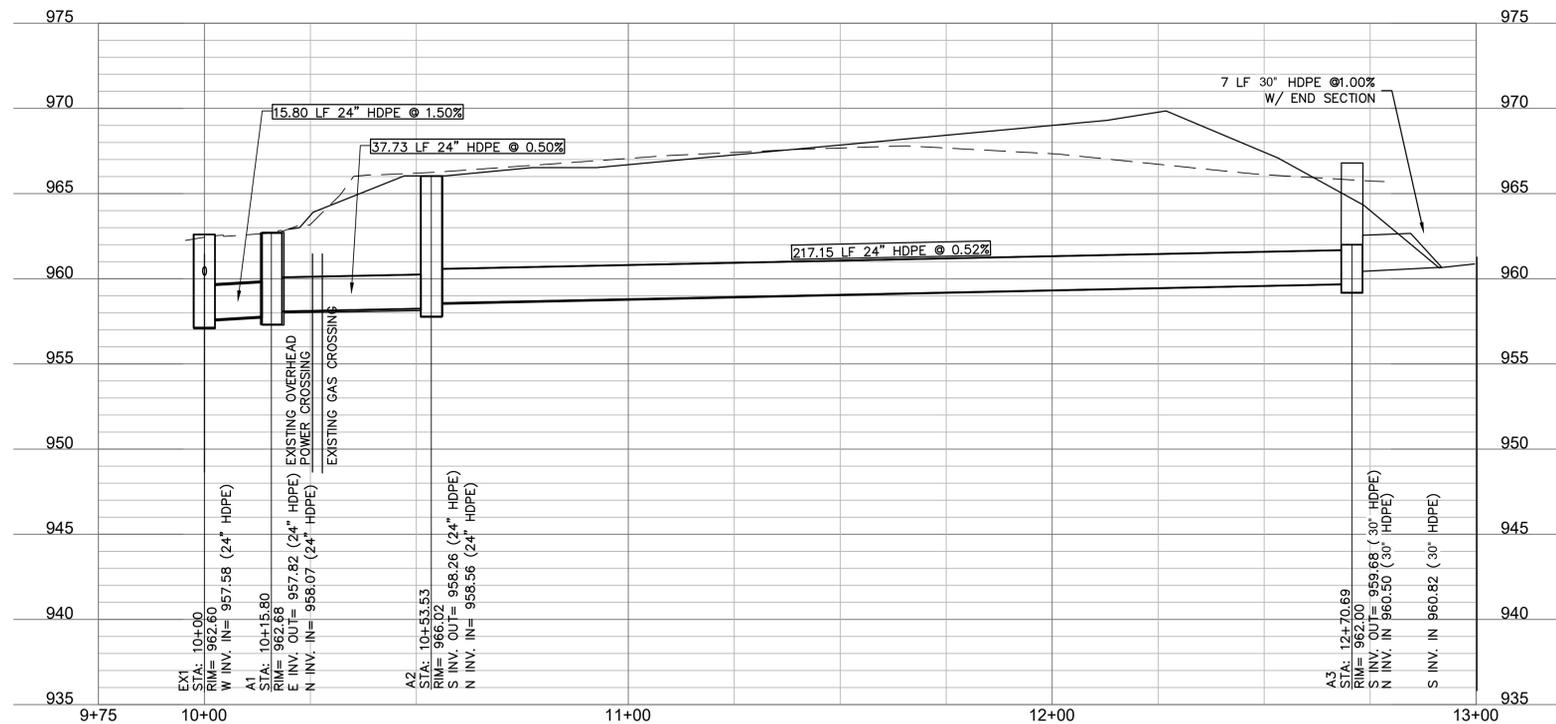
Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20
4	CITY COMMENTS	04.23.20

Project No. B18-0330 Date 02.05.20 Drawn RLK

Drawing No. **C6.0**
 UTILITY PLAN



STORM LINE A (9+75 - 13+00)



STRUCTURES	
ID	DESCRIPTION
A1	INSTALL STD. 4'DIA. DOGHOUSE MH ON EXISTING PIPE 10+15.80, 0.00' STORM LINE A RIM= 962.68 INV IN = 958.07 (24" HDPE) INV OUT = 957.82 (24" HDPE) N: 1012096.208; E: 2829609.327
A2	INSTALL STD. 4'X4' NON-SETBACK CURB INLET 10+53.53, 0.00' STORM LINE A RIM= 966.02 INV IN = 958.56 (24" HDPE) INV OUT = 958.26 (24" HDPE) N: 1012133.926; E: 2829610.450
A3	INSTALL 4'X4' CONTROL STRUCTURE RE: DETAIL ON SHEET C10.0 12+70.69, -0.18' LT STORM LINE A RIM= 962.00 INV OUT = 959.68 (24" HDPE) N: 1012349.104; E: 2829581.214
EX1	CONNECT TO EXISTING CURB INLET 10+00, 0.00' STORM LINE A RIM= 962.60 INV IN = 957.58 (24" HDPE) N: 1012096.182; E: 2829625.124

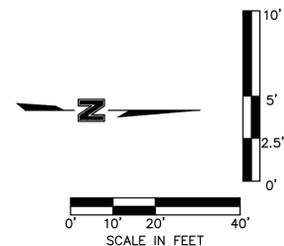
EXISTING CONDITIONS LEGEND

- PROPERTY LINES
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- P-OH OVERHEAD ELECTRIC
- P-UG UNDERGROUND ELECTRIC
- TEL UNDERGROUND TELEPHONE
- FO UNDERGROUND FIBER OPTIC
- G GAS LINE
- W WATER LINE
- SS STORM SEWER LINE
- SS SANITARY SEWER LINE

PROPOSED CONDITIONS LEGEND

- E PROPOSED UNDERGROUND ELECTRIC
- FO PROPOSED FIBER OPTIC
- W PROPOSED WATER LINE
- FP PROPOSED FIRE PROTECTION LINE
- SD PROPOSED STORM SEWER LINE
- T PROPOSED TURF DRAIN LINE
- SS PROPOSED SANITARY SEWER SERVICE
- CONCRETE CURB & GUTTER
- PROPOSED BUILDING

RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 04/28/2020



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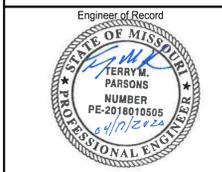
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Terry M Parsons, Engineer MO PE-2018010505

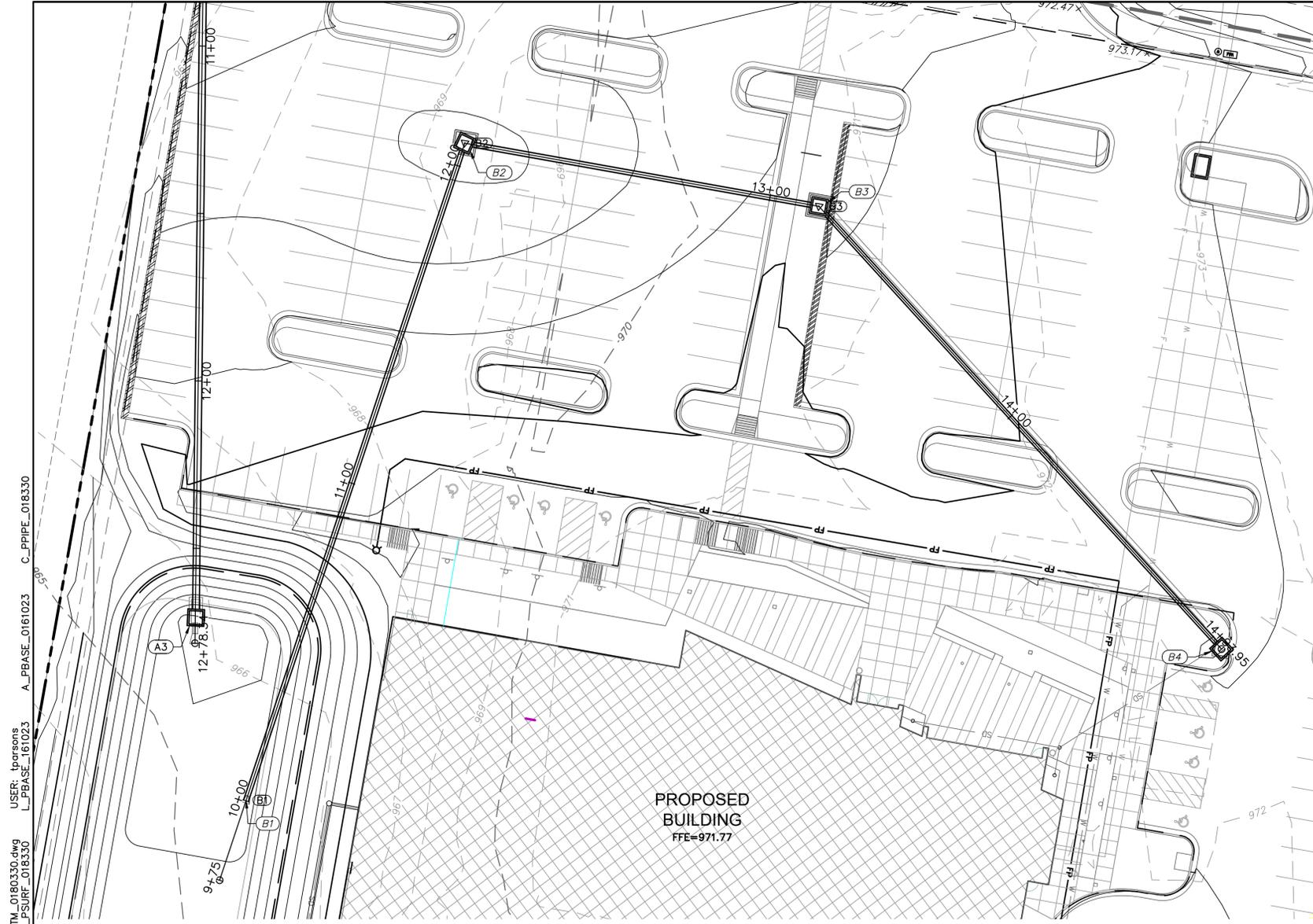
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Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

Project No. B18-0330 Date 02.05.20 Drawn RLK

Drawing No. **C7.0**
STORM SEWER PLAN & PROFILE



STORM LINE B (9+75 - 15+25)

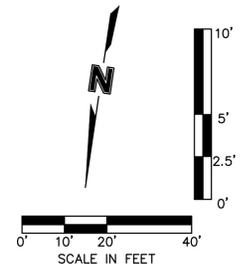
STRUCTURES	
ID	DESCRIPTION
B1	INSTALL 24" DIA. HDPE END SECTION WITH CONCRETE TOEWALL 10+00.18, 0.00' STORM LINE B RIM= 962.31 N: 1012400.844; E: 2829558.341
B2	INSTALL STD. 4'X4' GRATE INLET 12+07.04, 0.00' STORM LINE B RIM= 967.00 INV IN = 963.00 (24" HDPE) INV OUT = 962.70 (24" HDPE) N: 1012197.171; E: 2829522.142
B3	INSTALL STD. 4'X4' NON-SETBACK CURB INLET 13+14.92, 0.00' STORM LINE B RIM= 969.62 INV IN = 964.06 (15" HDPE) INV OUT = 963.76 (24" HDPE) N: 1012200.336; E: 2829414.313
B4	INSTALL STD. 4'X4' NON-SETBACK CURB INLET 14+93.95, 0.00' STORM LINE B RIM= 970.86 INV OUT = 965.31 (15" HDPE) N: 1012313.496; E: 2829275.574

EXISTING CONDITIONS LEGEND

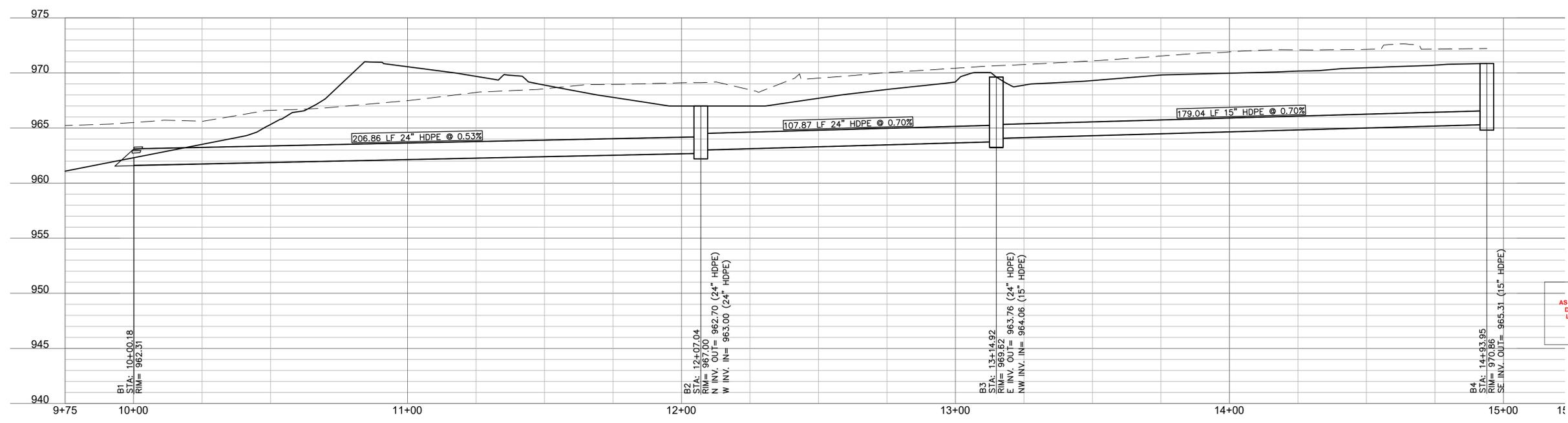
- PROPERTY LINES
- - - RIGHT-OF-WAY LINES
- - - EASEMENT LINES
- P-OH OVERHEAD ELECTRIC
- P-UG UNDERGROUND ELECTRIC
- TEL UNDERGROUND TELEPHONE
- FO UNDERGROUND FIBER OPTIC
- G GAS LINE
- W WATER LINE
- SS SANITARY SEWER LINE

PROPOSED CONDITIONS LEGEND

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- W PROPOSED WATER LINE
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- SS PROPOSED SANITARY SEWER SERVICE
- CONCRETE CURB & GUTTER
- PROPOSED BUILDING



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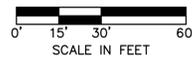
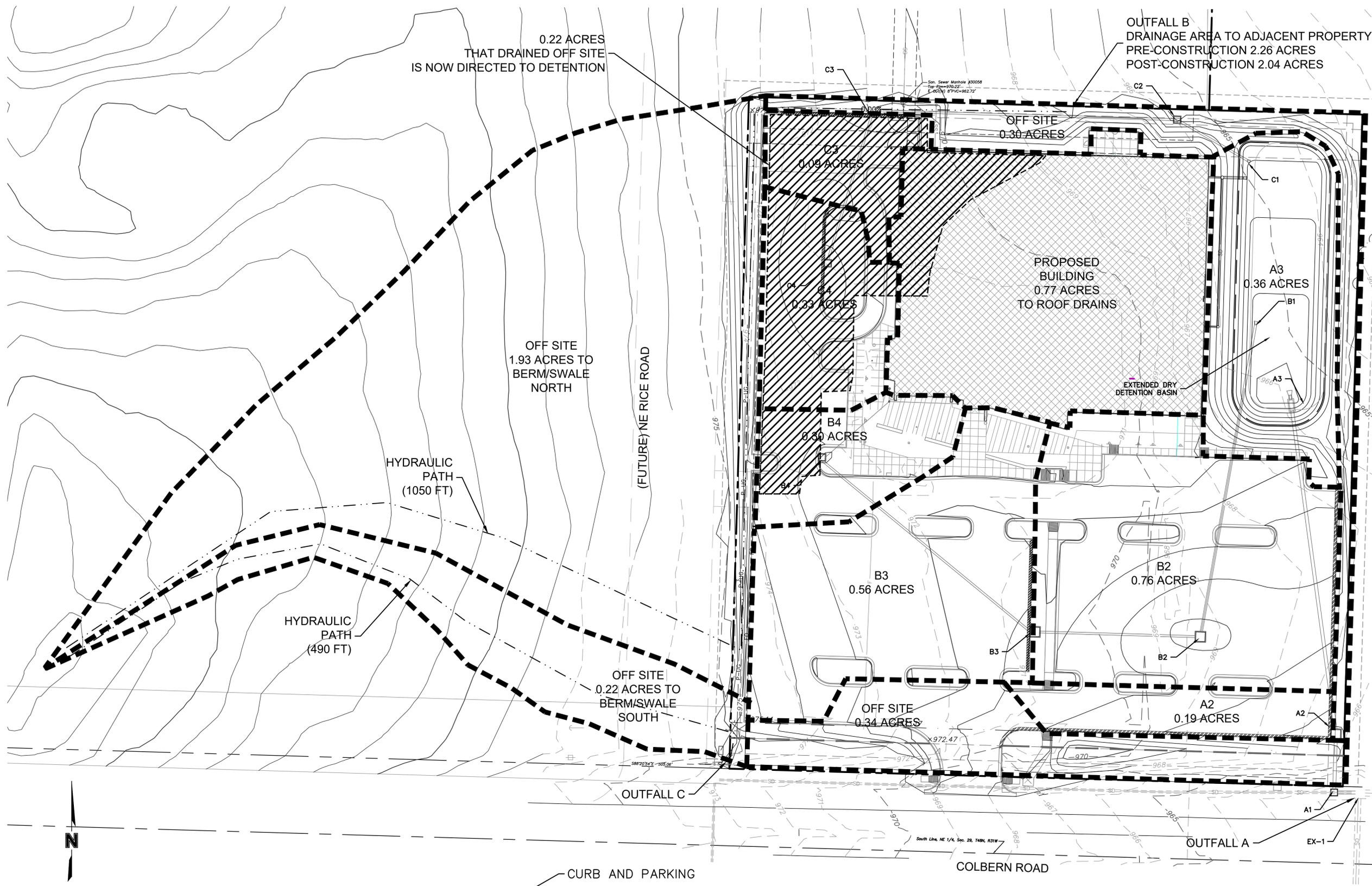
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Revision No.	Description	Date
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B18-0330	02.05.20	RLK

Drawing No. **C7.1**
STORM SEWER PLAN & PROFILE
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B18-0330	02.05.20	RLK

Drawing No. **C8.0**
DRAINAGE PLAN

STORM SEWER PIPE AND STRUCTURE TABLE

STORM SEWER PIPE AND STRUCTURE TABLE
 TITLE: COLBERN ROAD LIBRARY (LEES SUMMIT)
 JOB #: B18-0330

DESIGN CONDITIONS: 10 YEAR STORM EVENT STRUCTURES

RUNOFF CALCULATIONS										PIPE DESIGN															Comments								
FROM	TO	DIRECT AREA (ACRES)	TOTAL AREA (ACRES)	C	KC (K=1.00)	Tc (MIN)	FLOW TIME (MIN)	INTENSITY (IN/HR)	DESIGN Q (CFS)	DESCRIPTION	PIPE LENGTH (L.F.)	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 FLOWLINE	DOWNSTREAM WATER ELEVATION	FRICION HEAD (h f)	ENTRY LOSS COEFFICIENT (k)		ACTUAL ENTRY LOSS (k)	ENTRY LOSS (h m)	h f + h m (FT)	HW INLET CONTROL	HW OUTLET CONTROL	HYDRAULIC GRADE ELEV.	HYDRAULIC GRADE (MAX)	
RD		0.77	0.77	0.90	0.90	5.0	-	7.35	5.09	ROOF DRAINS	30.00	1.20	15	11.54	1.77	6.53	6.32	0.89	N/A	969.00	968.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	END SECTION TO BASIN
C4	C3	0.33	0.33	0.80	0.80	5.0	-	7.35	1.76	CURB INLET	99.00	1.00	15	8.81	1.77	4.99	4.78	0.79	971.33	971.33	967.18	964.49	0.23	0.40	0.40	0.14	0.37	965.92	964.86	965.92	969.86		
C3	C2	0.09	0.41	0.80	0.65	5.0	-	7.35	2.68	CURB INLET	195.00	1.00	15	18.98	3.14	6.04	5.44	0.75	970.59	966.88	964.90	963.47	0.09	0.40	0.40	0.18	0.27	964.49	963.74	964.49	968.82		
C2	C1	0.00	0.41	0.80	0.80	5.0	-	7.35	3.63	CURB INLET	52.00	1.00	15	18.98	3.14	6.04	6.11	0.87	967.51	964.59	965.45	962.20	0.36	0.50	0.50	0.29	0.65	963.47	962.85	963.47	966.00	END SECTION TO BASIN	
B4	B3	0.30	0.72	0.80	0.80	5.0	-	7.35	1.76	CURB INLET	179.00	0.70	18	8.81	1.77	4.99	4.78	0.79	970.86	965.31	963.48	964.49	0.23	0.40	0.40	0.14	0.37	965.92	964.86	965.92	969.86		
B3	B2	0.56	1.28	0.65	0.65	5.0	-	7.35	2.68	CURB INLET	108.00	0.70	24	18.98	3.14	6.04	5.44	0.75	969.62	963.76	962.70	963.47	0.09	0.40	0.40	0.18	0.27	964.49	963.74	964.49	968.82		
B2	B1	0.76	2.04	0.65	0.65	5.0	-	7.35	3.63	CATCH BASIN	207.00	0.50	24	18.98	3.14	6.04	6.11	0.87	967.00	962.70	962.31	962.20	0.36	0.50	0.50	0.29	0.65	963.47	962.85	963.47	966.00	END SECTION TO BASIN	
A3	A2	0.36	3.17	0.30	0.30	5.0	-	7.35	0.79	Control Structure	220.00	0.50	18	7.45	1.77	4.21	4.47	0.87	965.00	960.47	959.34	960.66	0.46	1.00	1.00	0.31	0.78	961.77	961.43	961.77	964.00	Design Q based on Detained Flows (includes all areas to basin)	
A2	A1	0.19	3.36	0.80	0.80	5.0	-	7.35	0.88	CURB INLET	38.00	0.50	18	7.45	1.77	4.21	4.71	1.00	966.02	958.84	958.65	960.18	0.13	0.50	1.00	0.34	0.48	960.34	960.66	960.66	965.02	Design Q based on Detained Flows	

STORM SEWER PIPE AND STRUCTURE TABLE

STORM SEWER PIPE AND STRUCTURE TABLE
 TITLE: COLBERN ROAD LIBRARY (LEES SUMMIT)
 JOB #: B18-0330

DESIGN CONDITIONS: 100 YEAR STORM EVENT STRUCTURES

RUNOFF CALCULATIONS										PIPE DESIGN															Comments								
FROM	TO	DIRECT AREA (ACRES)	TOTAL AREA (ACRES)	C	KC (K=1.00)	Tc (MIN)	FLOW TIME (MIN)	INTENSITY (IN/HR)	DESIGN Q (CFS)	DESCRIPTION	PIPE LENGTH (L.F.)	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 FLOWLINE	DOWNSTREAM WATER ELEVATION	FRICION HEAD (h f)	ENTRY LOSS COEFFICIENT (k)		ACTUAL ENTRY LOSS (k)	ENTRY LOSS (h m)	h f + h m (FT)	HW INLET CONTROL	HW OUTLET CONTROL	HYDRAULIC GRADE ELEV.	HYDRAULIC GRADE (MAX)	
RD		0.77	0.77	0.90	0.90	5.0	-	7.35	5.09	ROOF DRAINS	30.00	1.20	15	11.54	1.77	6.53	6.32	0.89	N/A	969.00	968.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	END SECTION TO BASIN
C4	C3	0.33	0.33	0.80	0.80	5.0	-	7.35	1.76	CURB INLET	99.00	1.00	15	8.81	1.77	4.99	4.78	0.79	971.33	971.33	967.18	964.49	0.23	0.40	0.40	0.14	0.37	965.92	964.86	965.92	969.86		
C3	C2	0.09	0.41	0.80	0.65	5.0	-	7.35	2.68	CURB INLET	195.00	1.00	15	18.98	3.14	6.04	5.44	0.75	970.59	966.88	964.90	963.47	0.09	0.40	0.40	0.18	0.27	964.49	963.74	964.49	968.82		
C2	C1	0.00	0.41	0.80	0.80	5.0	-	7.35	3.63	CURB INLET	52.00	1.00	15	18.98	3.14	6.04	6.11	0.87	967.51	964.59	965.45	962.20	0.36	0.50	0.50	0.29	0.65	963.47	962.85	963.47	966.00	END SECTION TO BASIN	
B4	B3	0.30	0.72	0.80	0.80	5.0	-	7.35	1.76	CURB INLET	179.00	0.70	18	8.81	1.77	4.99	4.78	0.79	970.86	965.31	963.48	964.49	0.23	0.40	0.40	0.14	0.37	965.92	964.86	965.92	969.86		
B3	B2	0.56	1.28	0.65	0.65	5.0	-	7.35	2.68	CURB INLET	108.00	0.70	24	18.98	3.14	6.04	5.44	0.75	969.62	963.76	962.70	963.47	0.09	0.40	0.40	0.18	0.27	964.49	963.74	964.49	968.82		
B2	B1	0.76	2.04	0.65	0.65	5.0	-	7.35	3.63	CATCH BASIN	207.00	0.50	24	18.98	3.14	6.04	6.11	0.87	967.00	962.70	962.31	962.20	0.36	0.50	0.50	0.29	0.65	963.47	962.85	963.47	966.00	END SECTION TO BASIN	
A3	A2	0.36	3.17	0.30	0.30	5.0	-	7.35	0.79	Control Structure	220.00	0.50	18	7.45	1.77	4.21	4.47	0.87	965.00	960.47	959.34	960.66	0.46	1.00	1.00	0.31	0.78	961.77	961.43	961.77	964.00	Design Q based on Detained Flows (includes all areas to basin)	
A2	A1	0.19	3.36	0.80	0.80	5.0	-	7.35	0.88	CURB INLET	38.00	0.50	18	7.45	1.77	4.21	4.71	1.00	966.02	958.84	958.65	960.18	0.13	0.50	1.00	0.34	0.48	960.34	960.66	960.66	965.02	Design Q based on Detained Flows	

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 JACKSON COUNTY

PACKAGE
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Terry M Parsons, Engineer MO PE-2018010505

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Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

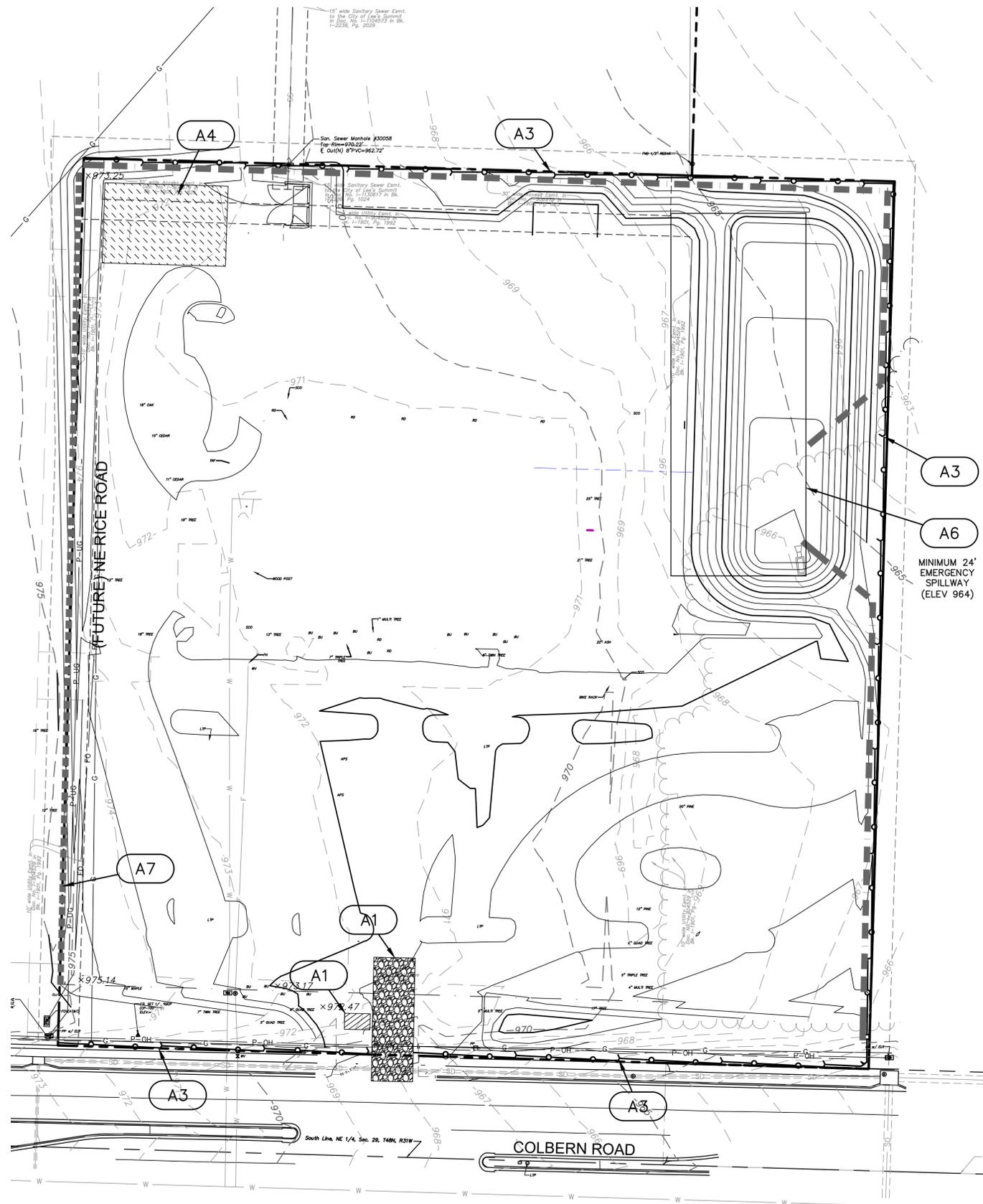
Project No.	Date	Drawn
B18-0330	02.05.20	RLK

Drawing No.
C8.1
DRAINAGE
CALCULATIONS
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RELEASE FOR
 CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 04/28/2020

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LEGEND

- RIGHT OF WAY LINE
- LOT LINE
- EXISTING GRADE CONTOUR
- FINISHED GRADE CONTOUR
- GRAVEL FILTER BAGS
- SEDIMENT FENCE
- TEMPORARY 18" DIVERSION BERM (SEE DETAILS)
- LIMITS OF DISTURBANCE (4.0 ACRES)
- TEMPORARY CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- STAGING/STOCKPILE AREA
- EROSION CONTROL REFERENCE NUMBER
- STRAW WATTLES

STABILIZATION. "LANDLOK (S2)" SHALL BE USED OR APPROVED EQUAL. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. SEED WITH PERENNIAL SEEDING TO MEET SWPPP REQUIREMENTS. INSTALL PER DETAIL AND MANUFACTURER RECOMMENDATIONS.

EROSION CONTROL STAGING CHART

PROJECT STAGE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVED AFTER STAGE	NOTES:
A - PRE-CONSTRUCTION	A1	TEMPORARY CONSTRUCTION ENTRANCE	C	INSTALL AS INDICATED ON PLANS
	A2	CONCRETE WASHOUT	C	INSTALL AS INDICATED ON PLANS
	A3	TEMPORARY SLOPE BARRIER (SEDIMENT FENCE)	D	INSTALL AS INDICATED ON PLANS
	A4	STAGING / STOCKPILE AREA	C	INSTALL AS INDICATED ON PLANS
	A5	EXISTING CURB INLET PROTECTION - TEMPORARY SEDIMENT BARRIER - CONDITION A	C	INSTALL AS INDICATED ON PLANS
	A6	TEMPORARY SEDIMENT TRAP	C	INSTALL AS INDICATED ON PLANS
	A7	PERMANENT SWALE	C	INSTALL AS INDICATED ON PLANS
B - STORM SEWER & UTILITY CONSTRUCTION (STABILIZE ANY DISTURBED AREAS OUTSIDE OF BUILDING PADS AND PARKING LOTS)	B1	TEMPORARY SEDIMENT BARRIER - CURB INLET - CONDITION A	C	INSTALL AS INDICATED ON PLANS
	B2	TEMPORARY SEDIMENT BARRIER - JUNCTION BOX - CONDITION A	C	INSTALL AS INDICATED ON PLANS
	B3	TEMPORARY EROSION CONTROL BLANKET (LANDLOK S2)	C	INSTALL AS INDICATED ON PLANS
C - BUILDING AND PAVEMENT CONSTRUCTION	C1	TEMPORARY SEDIMENT BARRIER - CURB INLET - CONDITION B	D	INSTALL AS INDICATED ON PLANS
	C2	TEMPORARY SEDIMENT BARRIER - JUNCTION BOX - CONDITION B	D	INSTALL AS INDICATED ON PLANS
D - FINAL STABILIZATION	D1	REPLACE TOP SOIL, SEED MULCH, SOD, LANDSCAPE	N/A	ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA.

Sediment Basin Design Calculations

Trap 1 - Colbern Road
OA# G17-0585

Design Flows:
 Tributary Drainage Area to Pond: 4.00 Acres
 Disturbed Tributary Drainage Area to Pond: 4.00 Acres

Drainage Basin Area	Total Area (acre)	2-Year Storm Runoff Calculations				
		C	KC (K=1.0)	Tc (min)	Intensity (in/hr)	Design Q (cfs)
Basin # 1	4.00	0.35	0.35	5.00	5.41	7.58
Basin # 1-Disturbed Area	4.00	0.35	0.35	5.00	5.41	7.58

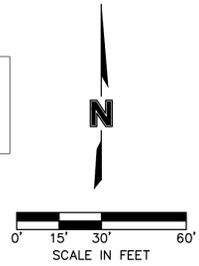
Drainage Basin Area	Total Area (acre)	25-Year Storm Runoff Calculations				
		C	KC (K=1.1)	Tc (min)	Intensity (in/hr)	Design Q (cfs)
Basin # 1	4.00	0.35	0.39	5.00	8.53	13.16
Basin # 1-Disturbed Area	4.00	0.35	0.39	5.00	8.53	13.16

Sediment Basin Storage:
 Minimum Sediment Storage = 4 Acre x 67 CV/Acre = 268 CV

Pond Basin	Elevation	Area (Sq. Ft.)	Volume (Cu. Yd.)	Cumulative Volume (Cu. Yd.)
Basin Volume # 1	960.50	0		
	961.00	1100	10	10
	962.00	3500	85	95
	963.00	6700	189	284
	964.00	9000	291	575

Overflow Elevation:
 Spillway Length = 6 x Tributary area in acres (Ft) = 6 x 4.00 = 24
 Spillway Elevation = Ho + 18" = 964.03 (Use 10" Rip Rap)

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 04/28/2020



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 JACKSON COUNTY

PACKAGE 10



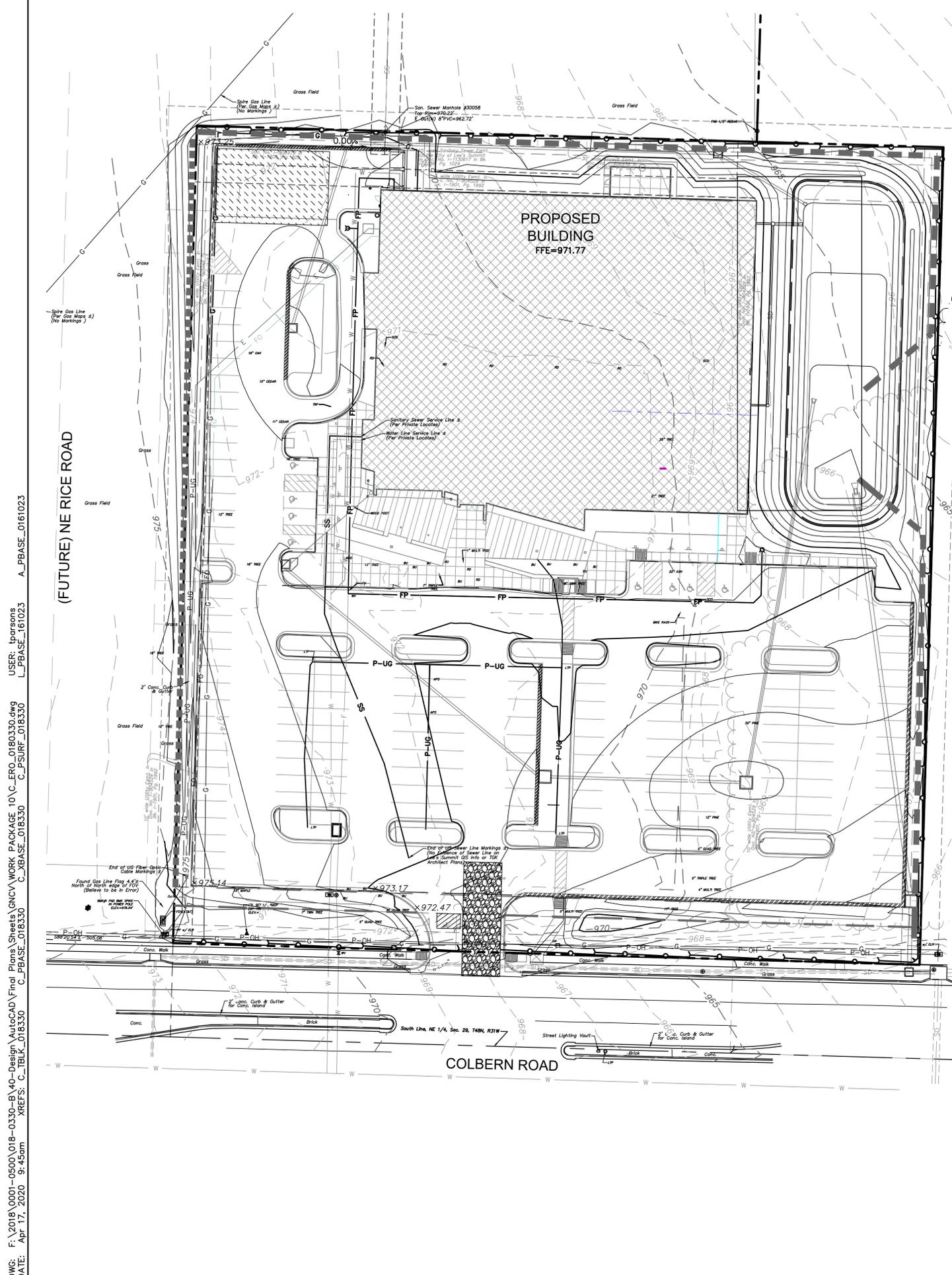
Terry M Parsons, Engineer MO PE-2018010505

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Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

Project No. B18-0330 Date 02.05.20 Drawn RLK

Drawing No. **C9.0**
EROSION CONTROL PLAN
 - PRE CONSTRUCTION



LEGEND

- RIGHT OF WAY LINE
- LOT LINE
- EXISTING GRADE CONTOUR
- FINISHED GRADE CONTOUR
- GRAVEL FILTER BAGS
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	A7	TEMPORARY DIVERSION BERM	C	INSTALL AS INDICATED ON PLANS
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	C2	TEMPORARY SEDIMENT BARRIER - JUNCTION BOX - CONDITION B	D	INSTALL AS INDICATED ON PLANS
D - FINAL STABILIZATION	D1	REPLACE TOP SOIL, SEED MULCH, SOD, LANDSCAPE	N/A	ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA.

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 USER: tparsons

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PACKAGE **10**

Engineer of Record

 TERRY M. PARSONS
 NUMBER PE-2018010505
 4/17/2020
 PROFESSIONAL ENGINEER

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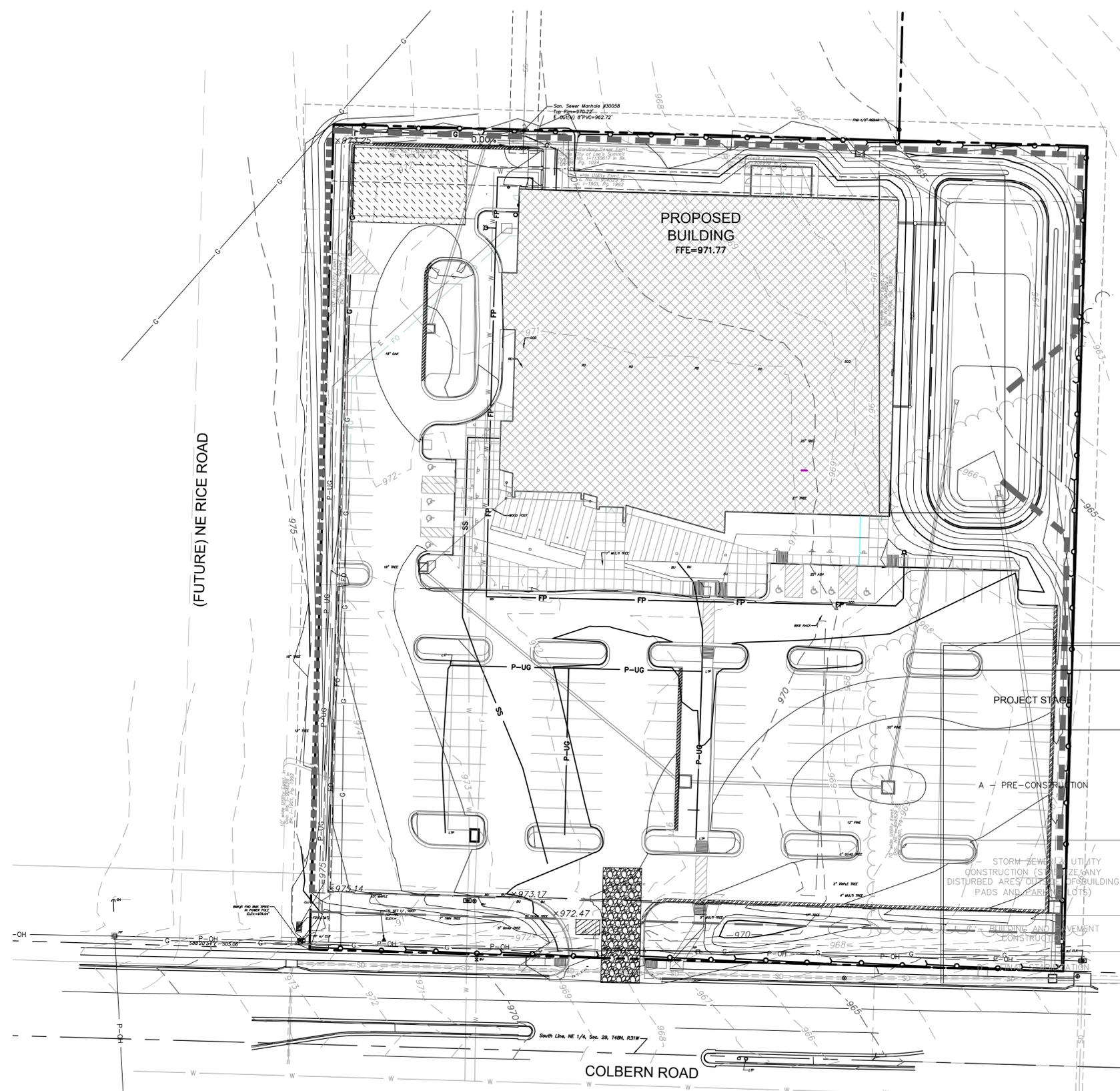
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Project No.	Date	Drawn
B18-0330	02.05.20	RLK

Drawing No.
C9.1
EROSION CONTROL PLAN - CONSTRUCTION
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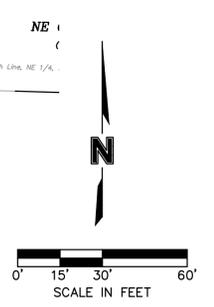


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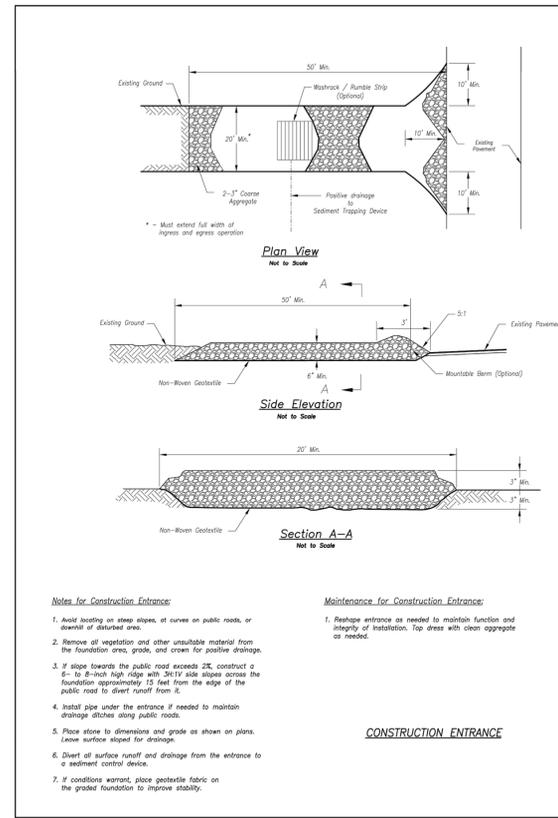
Olsson Missouri State Certificate of Authority #001592

Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

Project No. B18-0330 Date 02.05.20 Drawn RLK

Drawing No. **C9.2**
EROSION CONTROL PLAN
 - POST CONSTRUCTION

DWG: F:\2018\0001-0500\018-0330-B440-Design\AutoCAD\Final Plans\Sheets\GNCV\WORK PACKAGE 10\C-ERO_0180330.dwg
 DATE: Apr 17, 2020 9:45am XREFS: C:\TBLK_018330 C:\XBASE_018330 C:\PSURF_018330 C:\PBASE_0161023 A_PBASE_0161023



Notes for Concrete Washout:

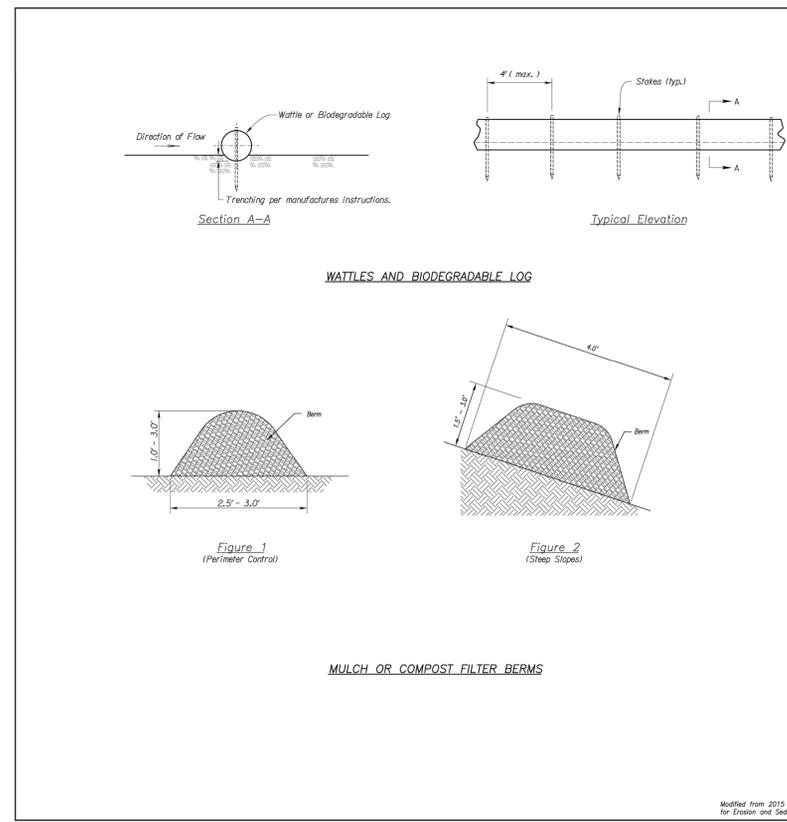
- Concrete washout areas shall be installed prior to any concrete placement on site.
- Concrete washout areas shall include a flat substrate that shall be level to the amount of concrete to be placed on site. The slopes leading out of the substrate pit shall be 2:1. The entire washing and shall be sloped towards the concrete washout area.
- Water flowing control is required at the access point to all concrete washout areas.
- Slopes shall be placed of the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location of the concrete washout areas to operators of concrete trucks and dump rigs.
- A one-piece impermeable liner may be required along the bottom and sides of the substrate in a sandy or gravelly site.

Maintenance for Concrete Washout:

- Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
- Concrete washout areas shall be enlarged as necessary to maintain capacity for washed concrete.
- Concrete washout water, washed pieces of concrete and all other debris in the substrate pit shall be transported from the job site in a water-tight container and disposed of properly.
- Concrete washout areas shall remain in place until all concrete for the project is placed.
- When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topped with disturbed area associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.

CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT
 STANDARD DRAWING NUMBER ESC-01
 ADOPTED: 10/24/2016



Notes for Wattles and Biodegradable Log Slope Protection:

- The Slope barriers shall be placed along contour lines, with a short section turned up-slope at each end of the barrier. The maximum length of the slope barrier shall not exceed 250 feet, and the barrier ends need to be staggered.
- Install wattles and biodegradable logs per manufacturer's instructions.
- Spacing of stakes per manufacturer's instructions with 4' max. spacing. Length of stakes shall be a minimum of 2 times the diameter of the log with minimum of 24".

Notes for Mulch and Compost Filter Berms:

- The sediment control berm shall be placed uncompact in a shallow or location shown on the plans or as directed by the engineer.
- Parallel to the base of the slope, or around the perimeter of other affected areas, construct a 1 to 3 foot high by 2.5 to 3 foot wide berm (see Figure 1). For maximum water treatment ability or for steep slopes, construct a 1.5 to 3 foot high trapezoidal berm that is a minimum of 4 feet wide at the base (see Figure 2). In extreme conditions, or where specified by the engineer, a second berm shall be constructed at the top of the slope. Engineer will specify berm requirements.
- If berm is to be left as permanent or part of the natural landscape, the compost berm may be seeded during application for permanent vegetation.
- Do not use compost or wood mulch berms in any runoff channels or concentrated flow areas.
- Wood mulch shall consist of free and shred debris resulting from chipping and grubbing and shall be ground by the mechanical means such as a chipper, hammermill, log grinder or other approved method. Mulch shall vary with a maximum width of 2" and a maximum length of 10".

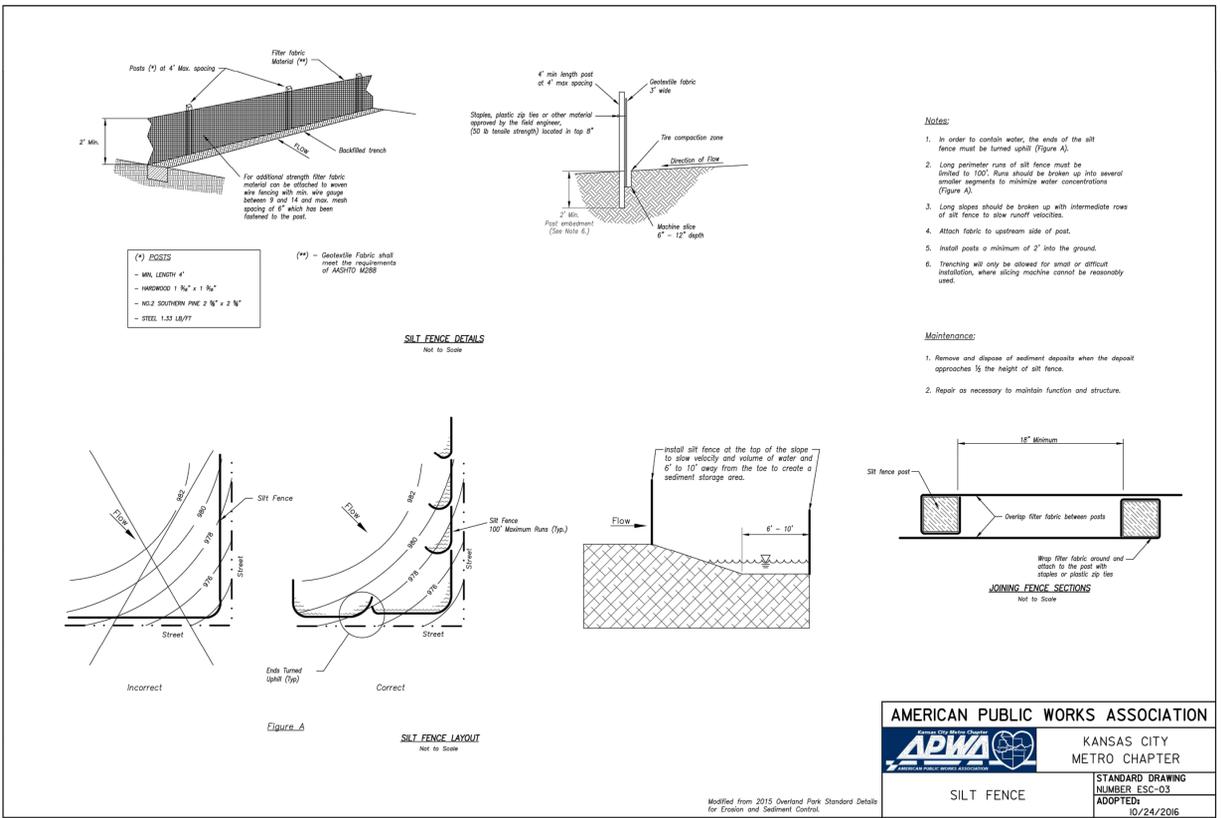
Maintenance for Mulch and Compost Filter Berms:

- Berm shall be reshaped and material added as necessary to maintain function and dimensions.
- Breaches in the berm shall be repaired promptly.

WATTLES AND BIODEGRADABLE LOG

MULCH OR COMPOST FILTER BERMS

AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 WATTLES/BIODEGRADABLE LOG AND MULCH/COMPOST FILTER BERM
 STANDARD DRAWING NUMBER ESC-04
 ADOPTED: 10/24/2016



Notes:

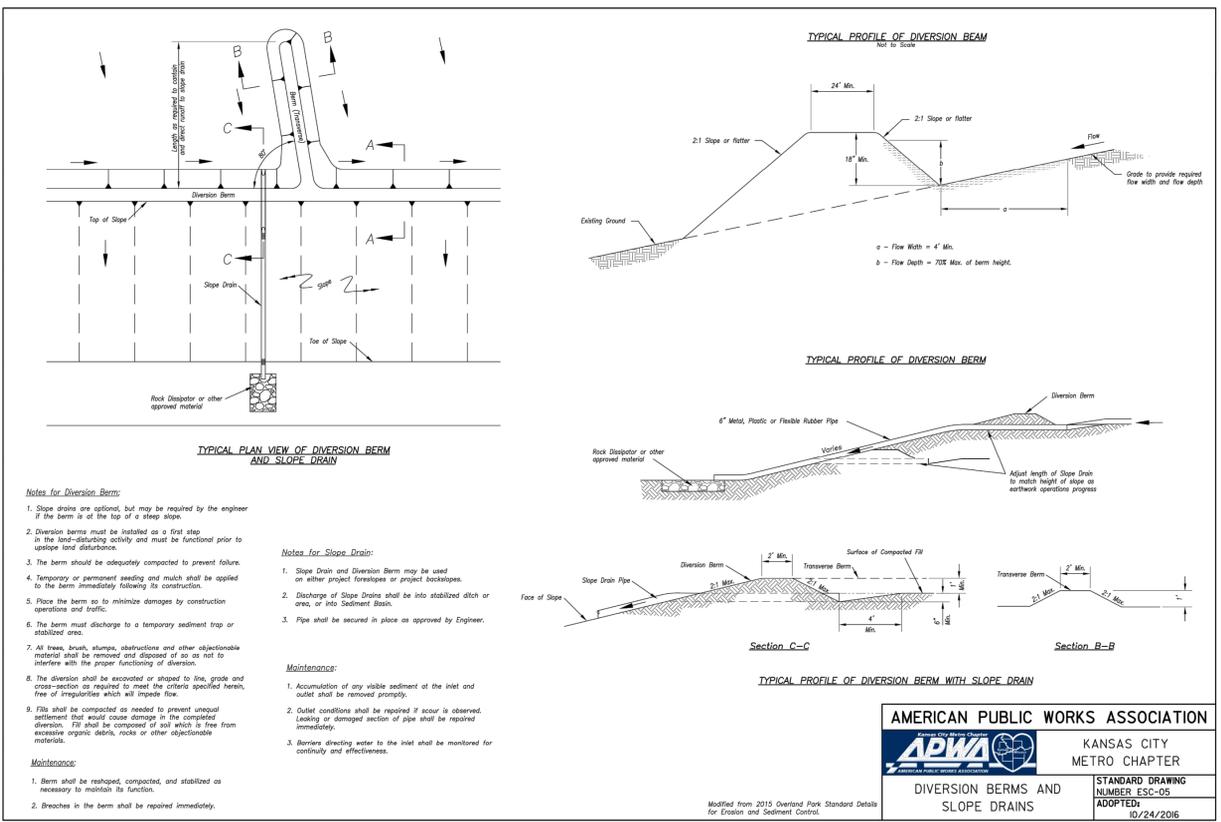
- In order to contain water, the ends of the silt fence must be turned up (Figure A).
- Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several longer segments to minimize water concentrations (Figure A).
- Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
- Attach fabric to upstream side of post.
- Install posts a minimum of 2' into the ground.
- Trenching will only be allowed for spot or difficult installation, where silt fence machine cannot be reasonably used.

Maintenance:

- Remove and dispose of sediment deposits when the deposit approaches 1/2 the height of silt fence.
- Repair as necessary to maintain function and structure.

CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 SILT FENCE
 STANDARD DRAWING NUMBER ESC-03
 ADOPTED: 10/24/2016



Notes for Diversion Berms:

- Slope drains are optional, but may be required by the engineer if the berm is at the top of a steep slope.
- Diversion berms must be installed as a first step in the land-disturbing activity and must be functional prior to up-slope land disturbance.
- The berm should be adequately compacted to prevent failure.
- Temporary or permanent seeding and mulch shall be applied to the berm immediately following its construction.
- Place the berm so to minimize damages by construction operations and traffic.
- The berm must discharge to a temporary sediment trap or stabilized area.
- All trees, brush, stumps, obstructions and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of diversion.
- The diversion shall be excavated or shaped to line, grade and cross-section as required to meet the criteria specified herein, free of irregularities which will impede flow.
- Fills shall be compacted as needed to prevent unequal settlement that would cause damage in the completed diversion. Fill shall be composed of soil which is free from excessive organic debris, rocks or other objectionable materials.
- Barriers diverting water to the inlet shall be maintained for continuity and effectiveness.

Notes for Slope Drain:

- Slope Drain and Diversion Berm may be used on either project foreslopes or project back-slopes.
- Discharge of Slope Drains shall be into stabilized ditch or area, or into Sediment Basin.
- Pipe shall be secured in place as approved by Engineer.

Maintenance:

- Accumulation of any visible sediment at the inlet and outlet shall be removed promptly.
- Outlet conditions shall be repaired if scour is observed. Leaking or damaged section of pipe shall be repaired immediately.
- Barriers diverting water to the inlet shall be maintained for continuity and effectiveness.

Maintenance:

- Berm shall be reshaped, compacted, and stabilized as necessary to maintain its function.
- Breaches in the berm shall be repaired immediately.

CONCRETE WASHOUT

AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 DIVERSION BERMS AND SLOPE DRAINS
 STANDARD DRAWING NUMBER ESC-05
 ADOPTED: 10/24/2016

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
 04/28/2020

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The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature wherever it is used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

Mid-Continent Public Library
 CONSTRUCTION DOCUMENTS FOR
COLBERN ROAD BRANCH
 1000 N.E. COLBERN ROAD
 LEE'S SUMMIT, MO 64086
 JACKSON COUNTY

PACKAGE 10

Engineer of Record
TERRY M. PARSONS
 NUMBER PE-2018010505
 4/17/2020

Terry M Parsons, Engineer MO PE-2018010505

olsson

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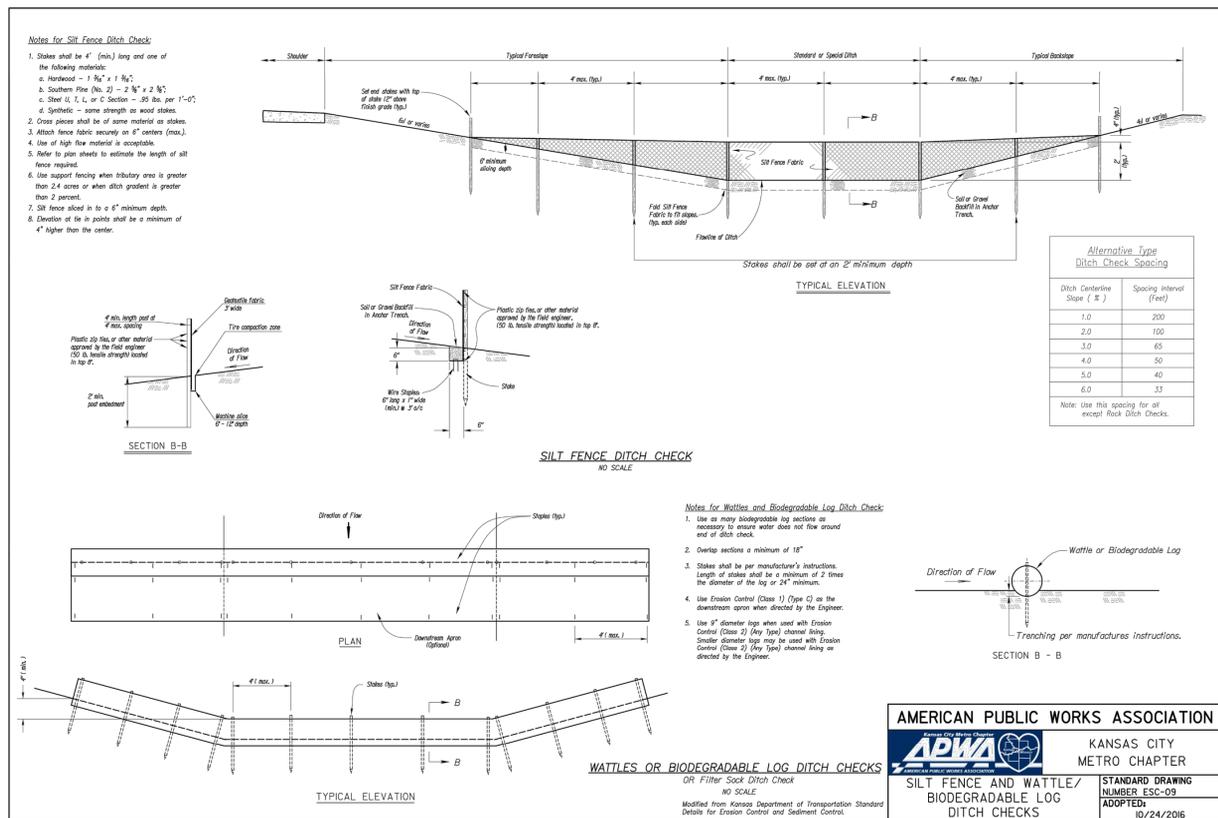
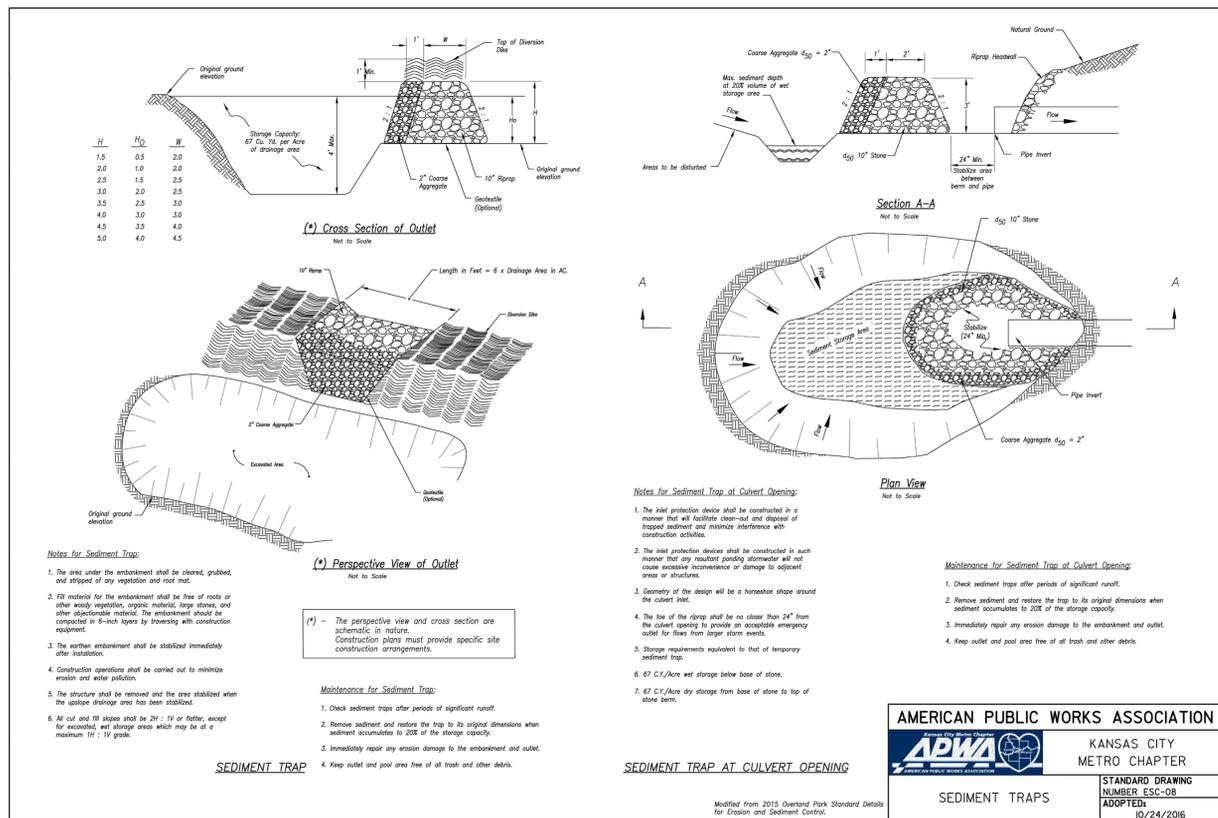
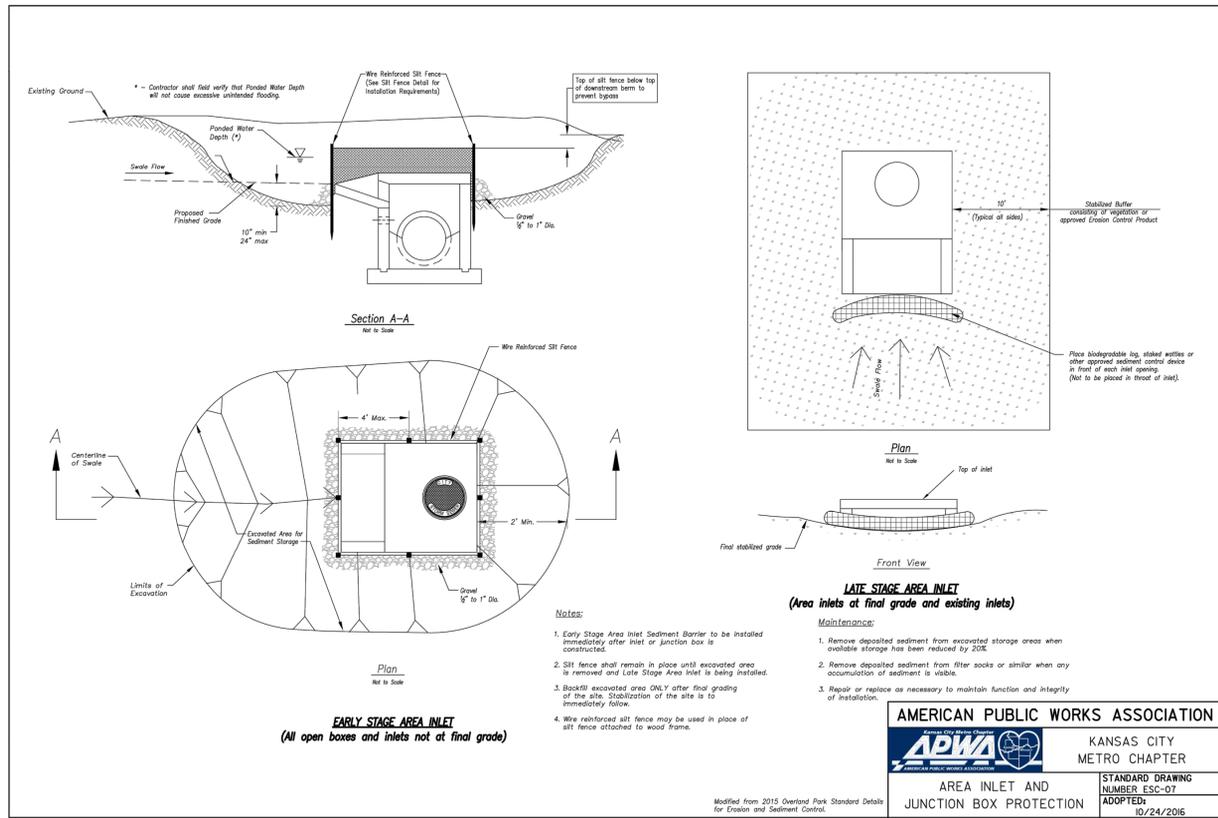
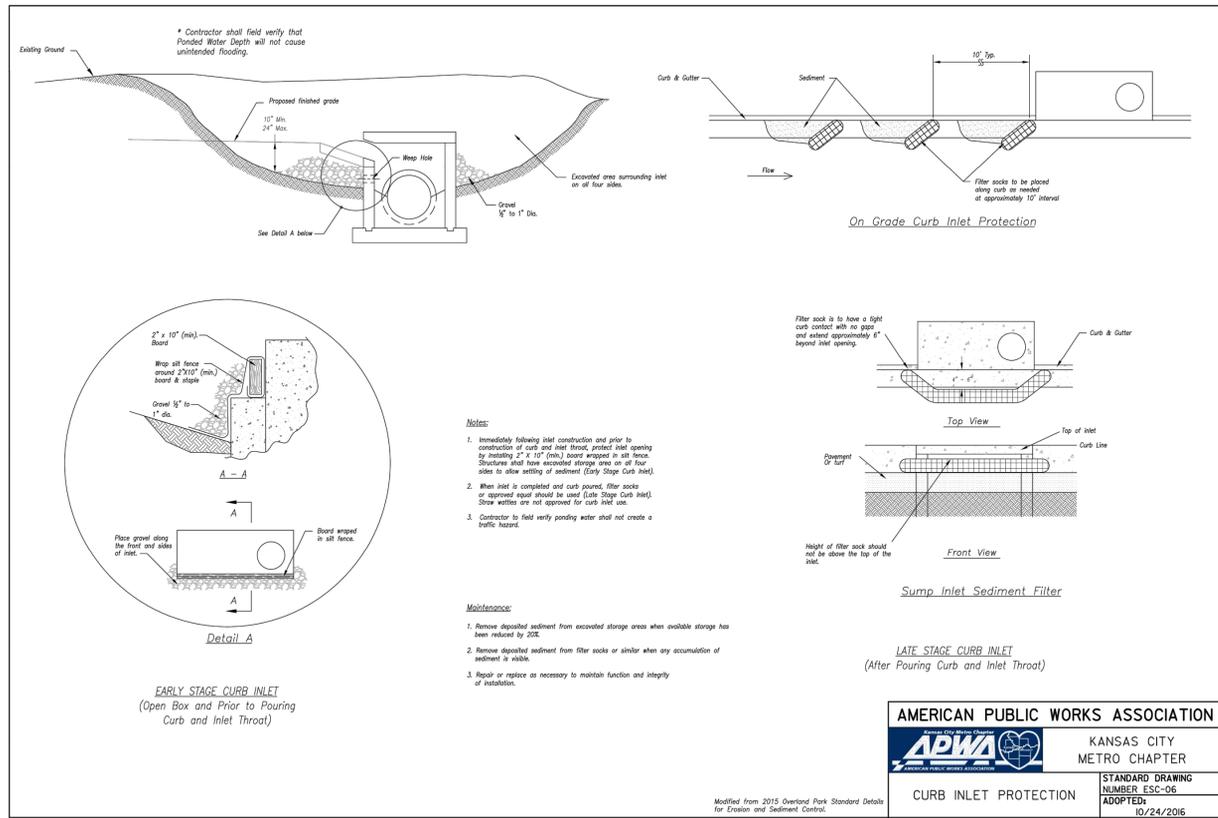
Missouri State Certificate of Authority #01592

Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

Project No. B18-0330 Date 02.05.20 Drawn RLK

Drawing No. **C9.3**
EROSION CONTROL DETAILS

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RELEASE FOR CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 04/28/2020

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KANSAS CITY METRO CHAPTER
STANDARD DRAWING NUMBER ESC-10
ADOPTED: 10/24/2016
CONSTRUCTION DOCUMENTS FOR

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CONSTRUCTION DOCUMENTS FOR
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 JACKSON COUNTY

PACKAGE 10

Engineer of Record
TERRY M. PARSONS
 LICENSE NUMBER
 PE-2018010505
 4/17/2020
PROFESSIONAL ENGINEER

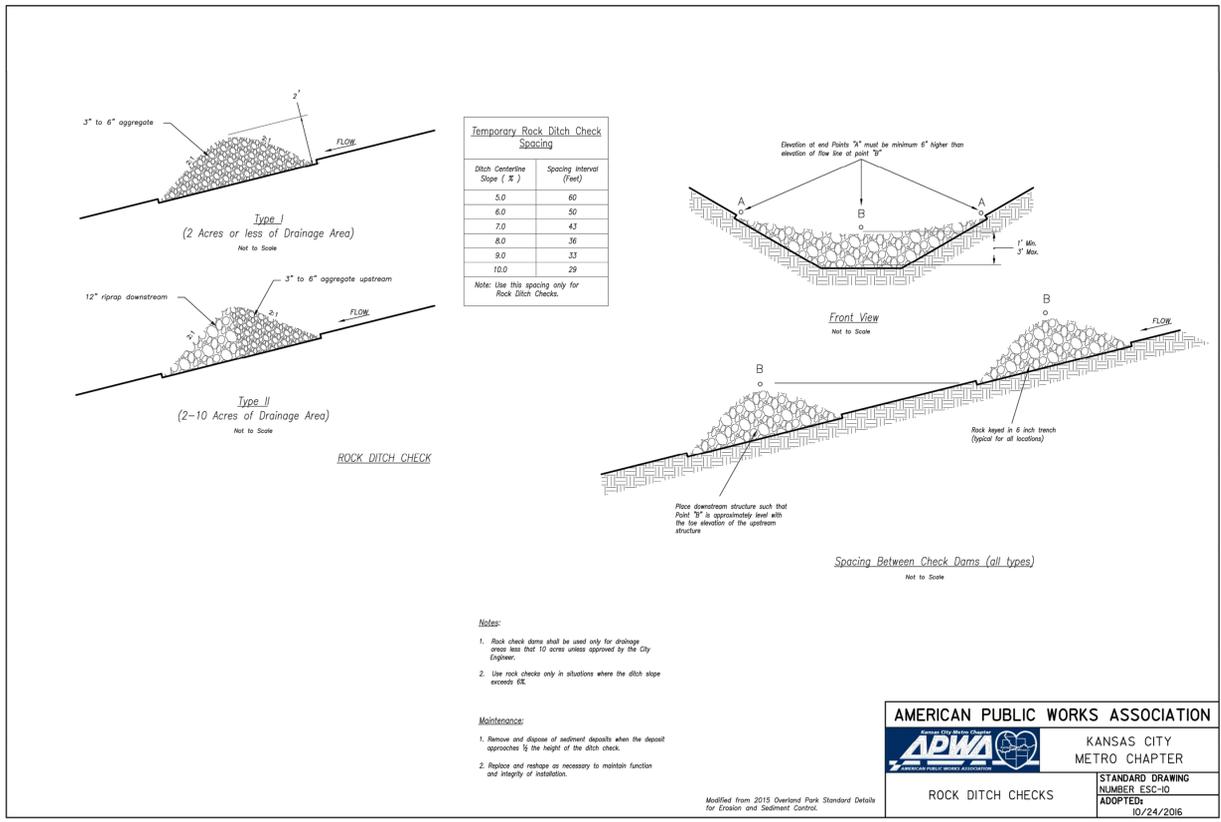
Terry M Parsons, Engineer MO PE-2018010505

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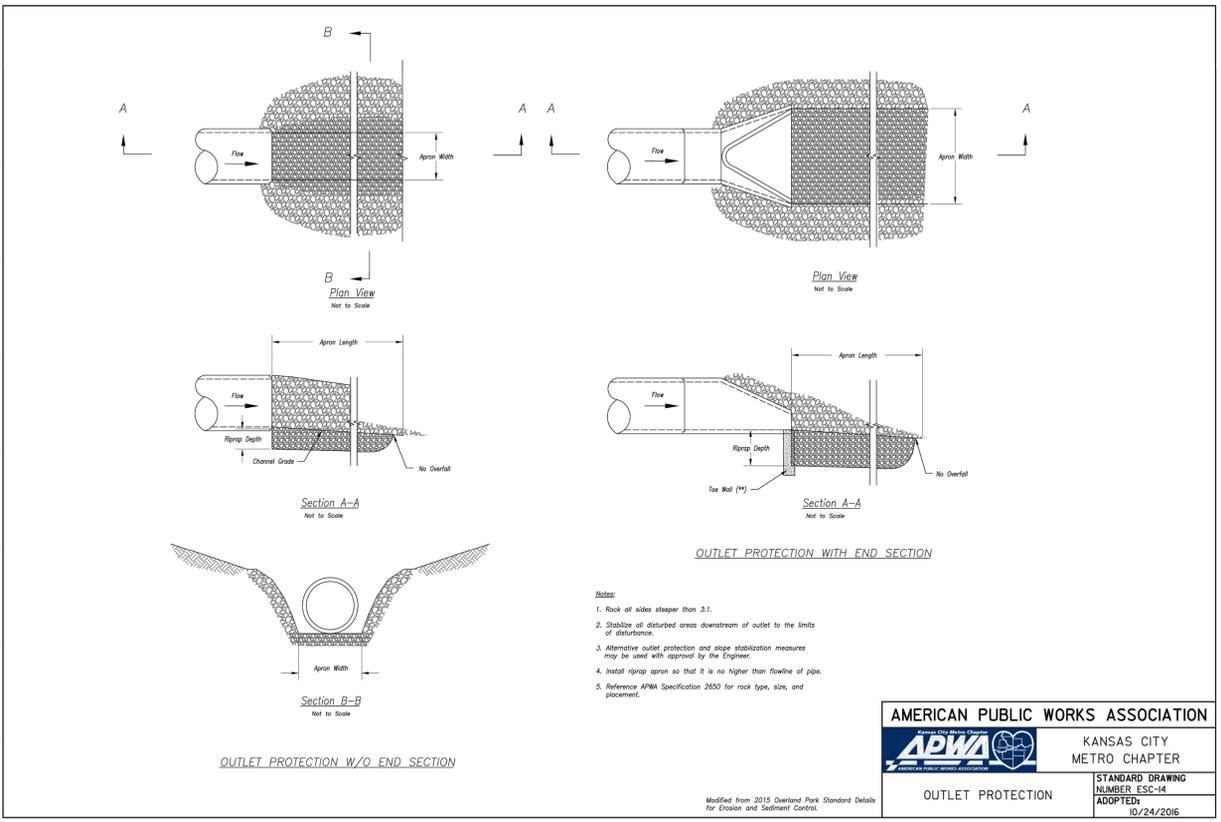
Missouri State Certificate of Authority #01592
 Revision No. Description Date
 1 CITY COMMENTS 03.19.20
 2 CITY COMMENTS 04.08.20
 3 CITY COMMENTS 04.17.20

Project No. Date Drawn
 B18-0330 02.05.20 RLK

C9.4
EROSION CONTROL
DETAILS



AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 STANDARD DRAWING NUMBER ESC-10 ADOPTED: 10/24/2016
 ROCK DITCH CHECKS



AMERICAN PUBLIC WORKS ASSOCIATION
 KANSAS CITY METRO CHAPTER
 STANDARD DRAWING NUMBER ESC-14 ADOPTED: 10/24/2016
 OUTLET PROTECTION

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PACKAGE 10



Terry M Parsons, Engineer MO PE-2018010505

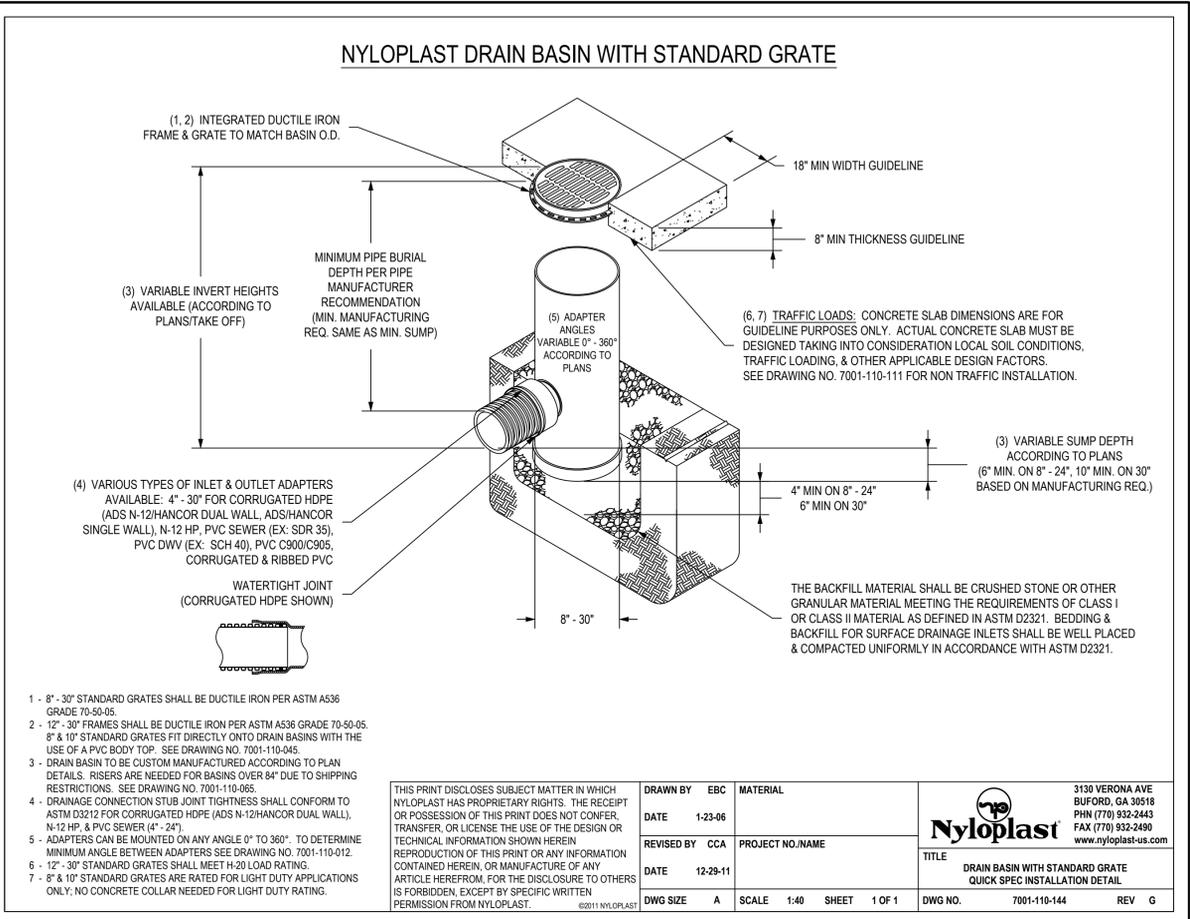
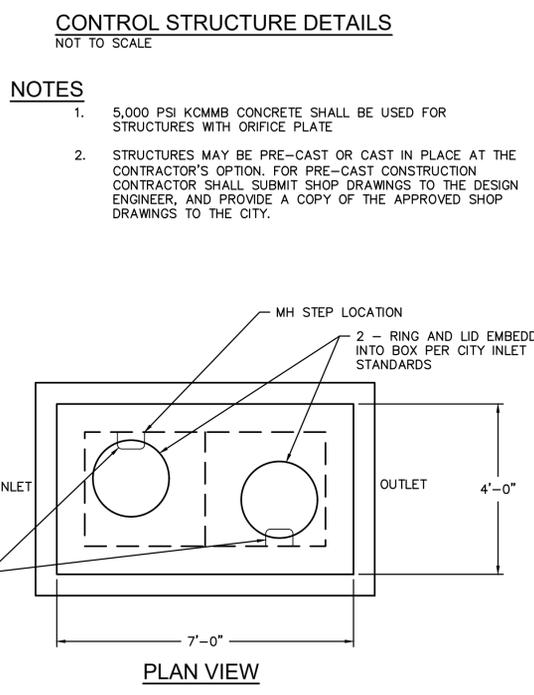
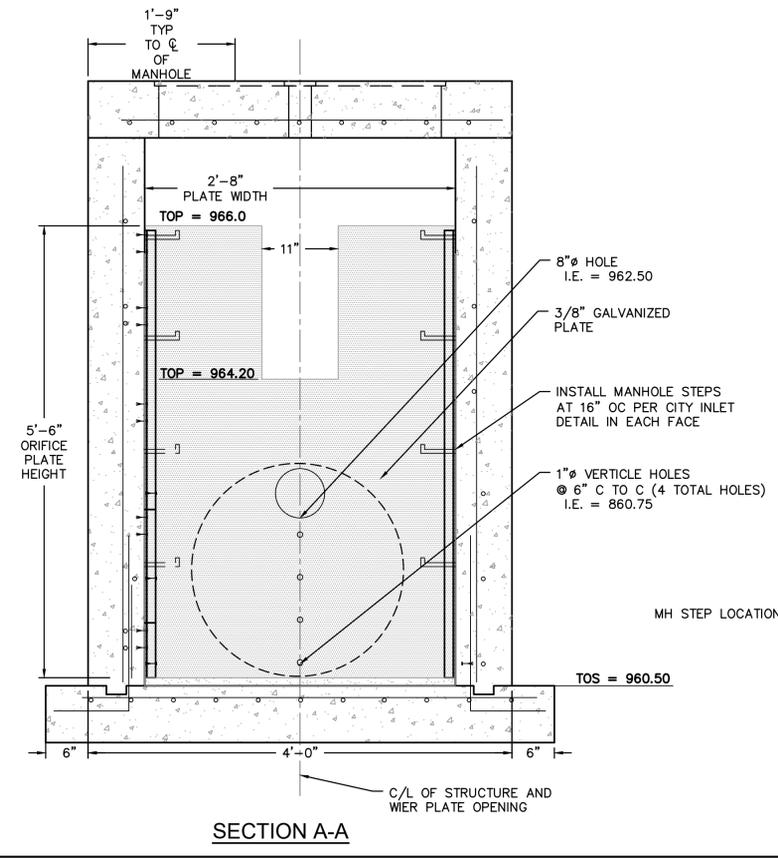
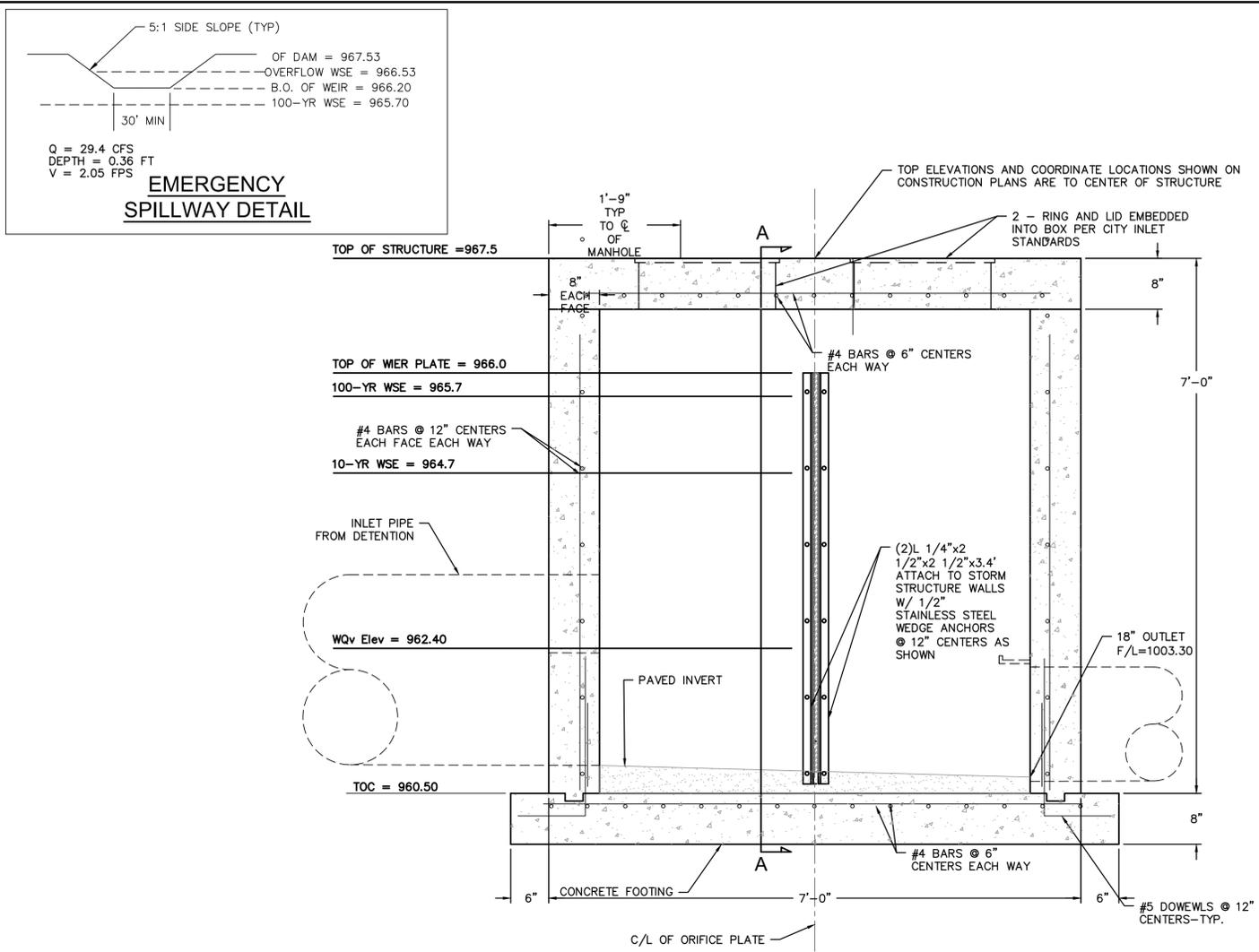
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Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

Project No.	Date	Drawn
B18-0330	02.05.20	RLK

Drawing No.
C9.5
EROSION CONTROL
DETAILS

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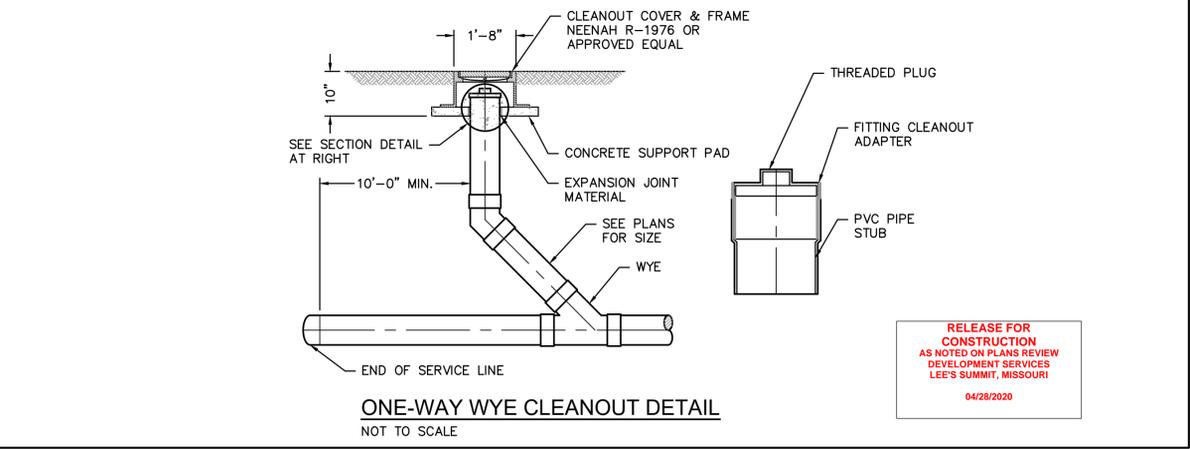
Section 2721
Engineered Surface Drainage Products

GENERAL
 PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
 The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

INSTALLATION
 The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.



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 JACKSON COUNTY

PACKAGE **10**

Engineer of Record

 Terry M Parsons, Engineer MO PE-2018010505

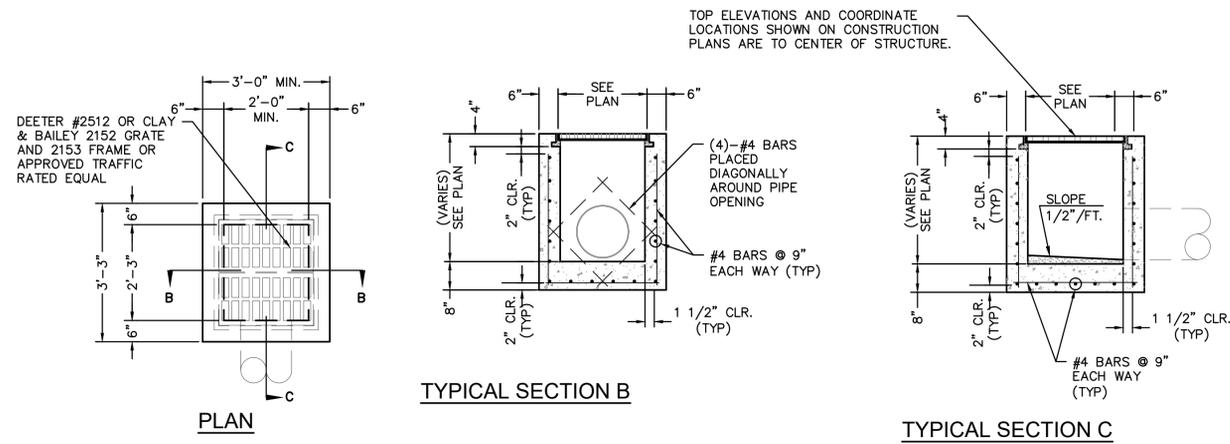
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Revision No.	Description	Date
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2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

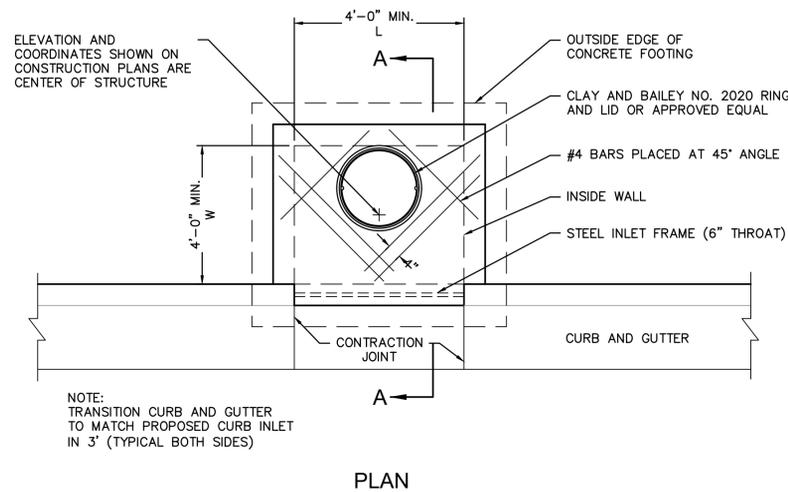
Project No. B18-0330 Date 02.05.20 Drawn RLK
 Drawing No. **C10.0**
STANDARD DETAILS

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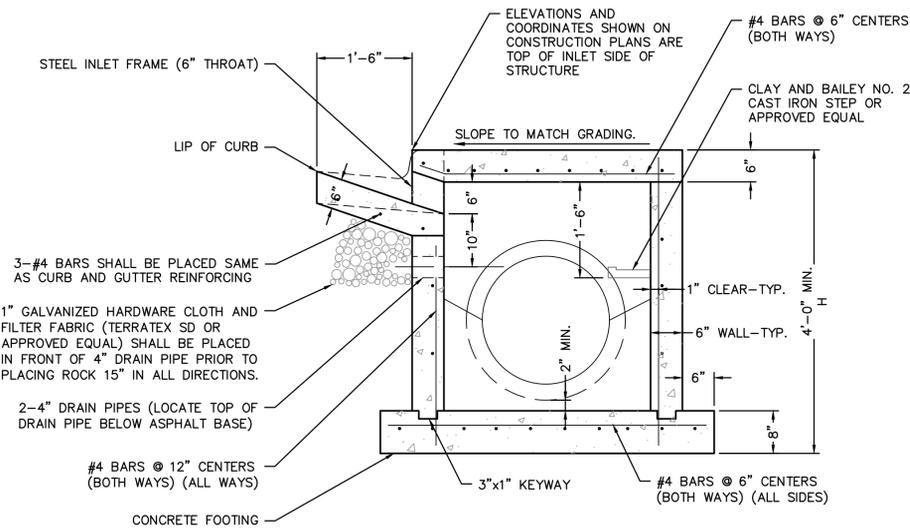
DOUBLE GRATE INLET DETAILS
NOT TO SCALE



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

NON-SETBACK CURB INLET NOTES

- USE CITY APPROVED CONCRETE THROUGHOUT.
- THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.
- FLOOR OF INLET SHALL BE SHAPED TO PROVIDE SMOOTH FLOW.
- EXPANSION JOINTS SHALL BE EITHER HOT OR COLD POURED JOINT SEALING COMPOUND, OR PREMOULDED EXPANSION JOINT FILLER.
- STEEL INLET FRAME SPACERS SHALL BE PLACED AT EQUAL SPACINGS NOT TO EXCEED 4'-0".
- CAST IRON STEPS TO BE CLAY & BAILEY 2102 OR APPROVED EQUAL. STEEL CORE, PLASTIC COATED STEPS MAY BE USED (M.A. IND., INC. NO. PS1-PF, PS2-PF, OR APPROVED EQUAL). CAST IRON STEPS SHALL BE SPACED AT 1'-4" O.C. VERTICALLY.
- BEVEL ALL EXPOSED EDGES WITH TRIANGULAR MOLDING.
- ON-GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
- ALL STORM SEWER STRUCTURES SHALL BE PRECAST. PRECAST SHOP DRAWINGS SHALL BE APPROVED BY THE DESIGN ENGINEER.
- REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
- ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF ±1/8" SHALL BE PERMITTED.
- ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
- 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.
- ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
- DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
- THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL, AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
- ALL CURB INLET TOPS ARE TO BE CONSTRUCTED AFTER FINAL CURB STRING LINE HAS BEEN APPROVED BY THE ENGINEER AND PRIOR TO CURB CONSTRUCTION, OR AS DIRECTED BY THE CITY ENGINEER.
- RCP CONNECTIONS TO PRECAST STRUCTURE SHALL MEET ALL CITY STANDARDS.
- BACKFILL AROUND STRUCTURES SHALL BE COMPACTED AND SHALL BE OF THE MATERIAL SPECIFIED PER CITY STANDARDS.
- NON-SETBACK CURB INLET TO BE USED ONLY WITH THE APPROVAL OF THE CITY ENGINEER.



NON-SETBACK CURB INLET
NOT TO SCALE

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
04/28/2020

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Kansas City, MO 64108 816.300.0300

SPECIAL NOTICES

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Mid-Continent Public Library
CONSTRUCTION DOCUMENTS FOR
COLBERN ROAD BRANCH
1000 N.E. COLBERN ROAD
LEE'S SUMMIT, MO 64086
JACKSON COUNTY

PACKAGE
10



Terry M Parsons, Engineer MO PE-2018010505

olsson

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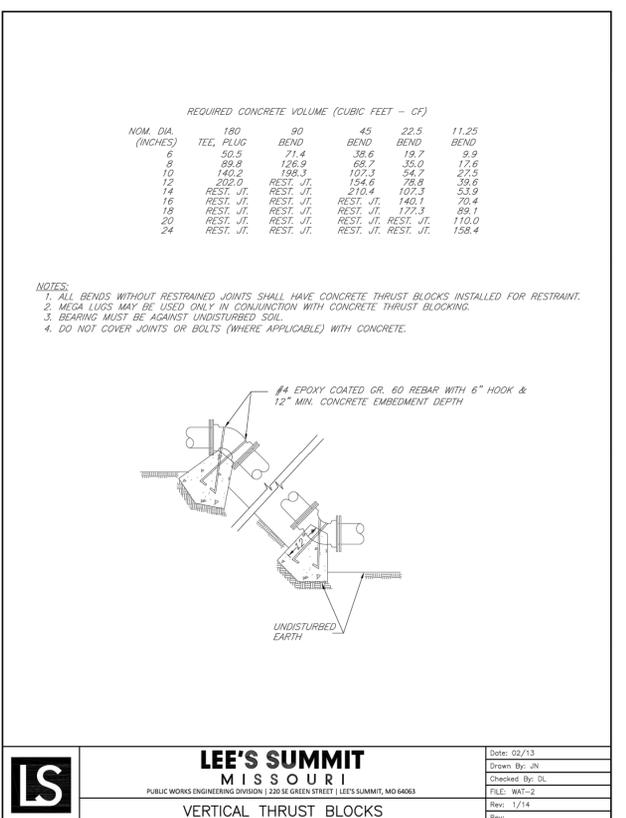
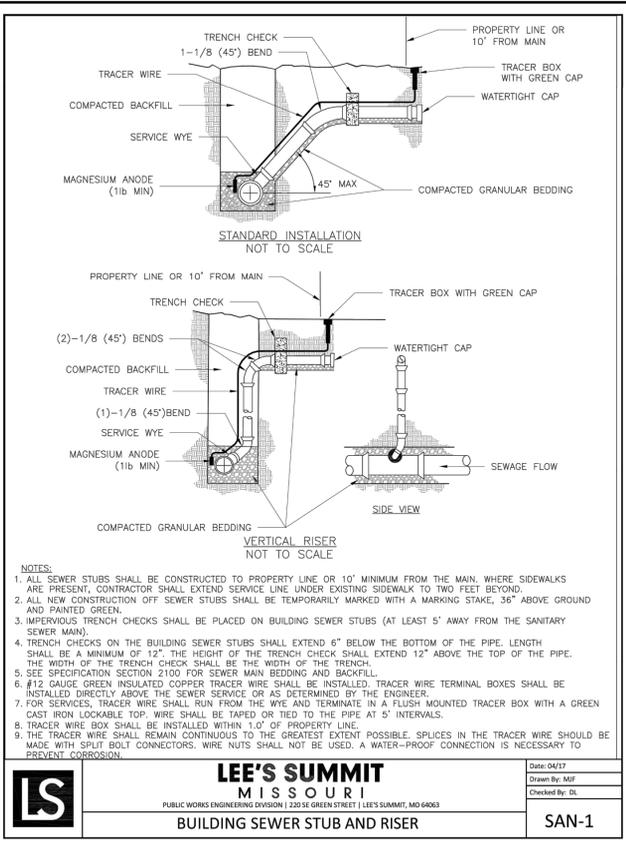
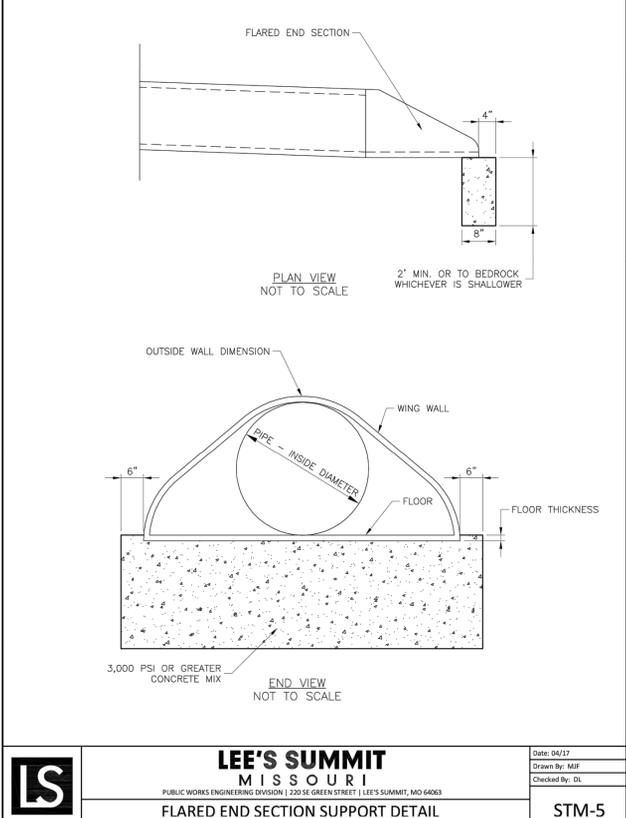
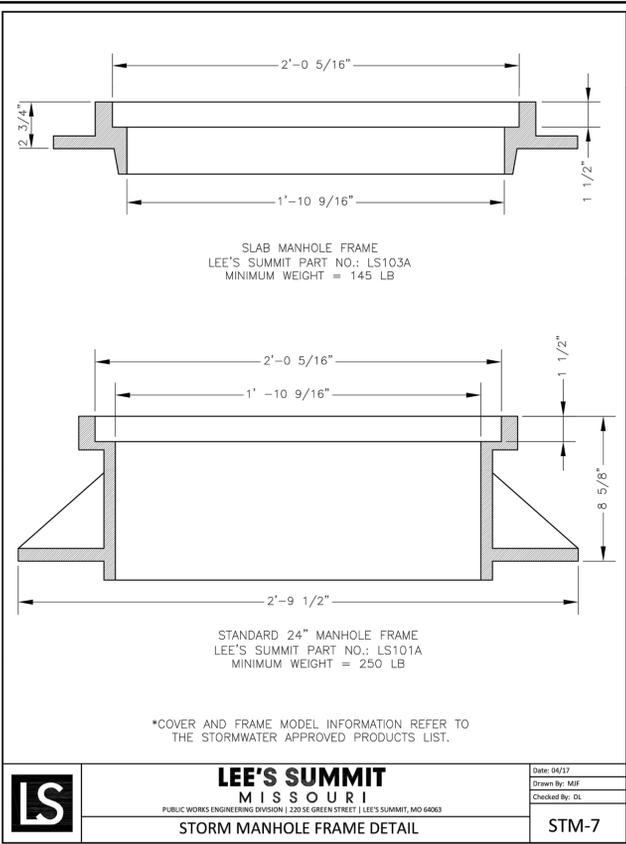
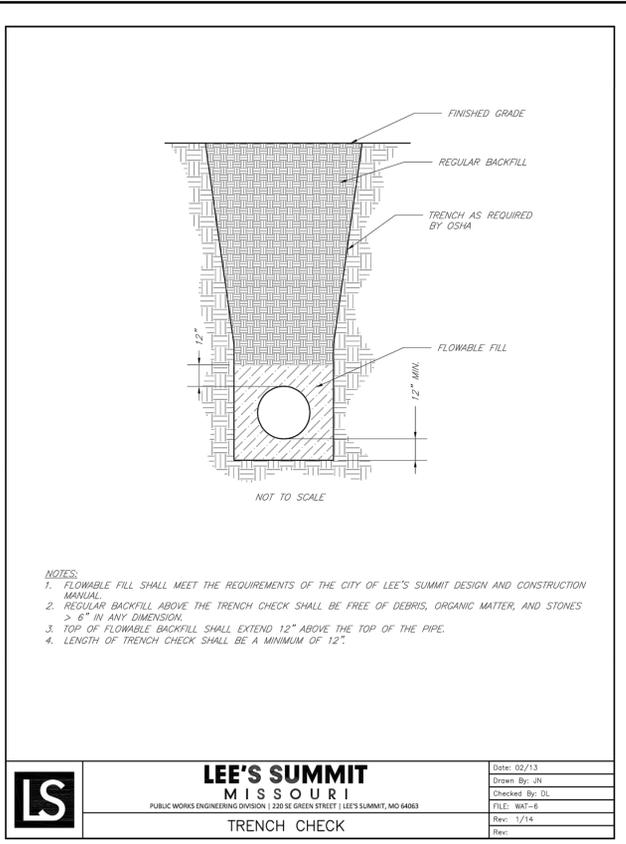
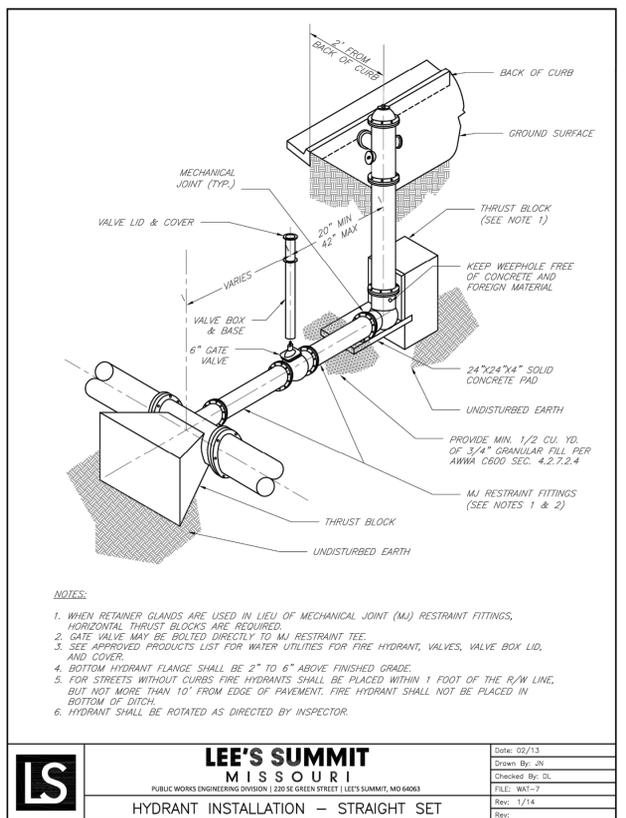
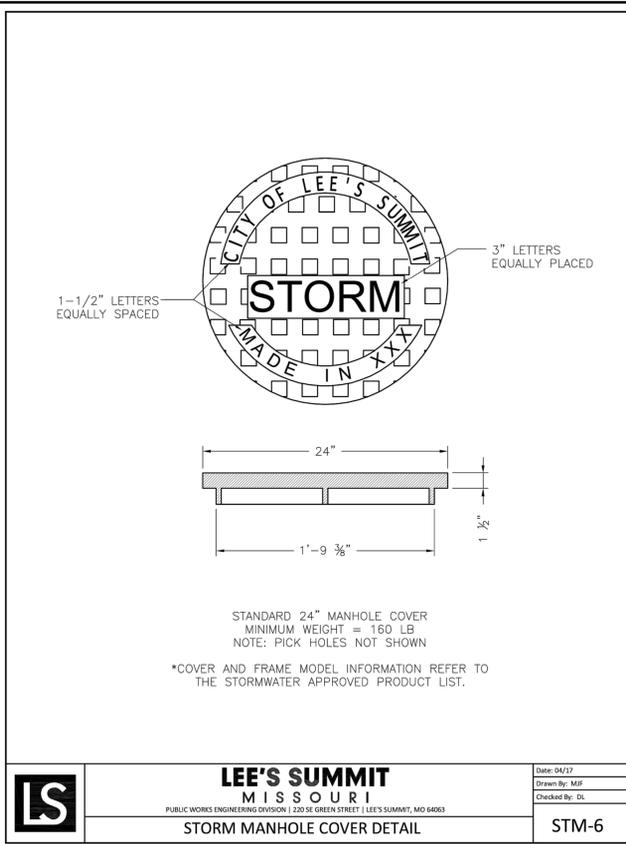
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Missouri State Certificate of Authority #001592

Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

Project No. B18-0330 Date 02.05.20 Drawn RLK

Drawing No. **C10.1**
STANDARD DETAILS

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 04/28/2020

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3750 S. Fremont Ave. Springfield, MO 65804 417.877.9600

Sapp Design Associates Architects, P.C. Missouri State Certificate of Authority #000607

helix.

1629 Walnut Kansas City, MO 64108 816.300.0300

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Mid-Continent Public Library

CONSTRUCTION DOCUMENTS FOR

COLBERN ROAD BRANCH

1000 N.E. COLBERN ROAD
LEE'S SUMMIT, MO 64086
JACKSON COUNTY

PACKAGE 10

Engineer of Record

TERRY M. PARSONS
NUMBER PE-2018010505
4/17/2020

Terry M Parsons, Engineer MO PE-2018010505

olsson

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Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

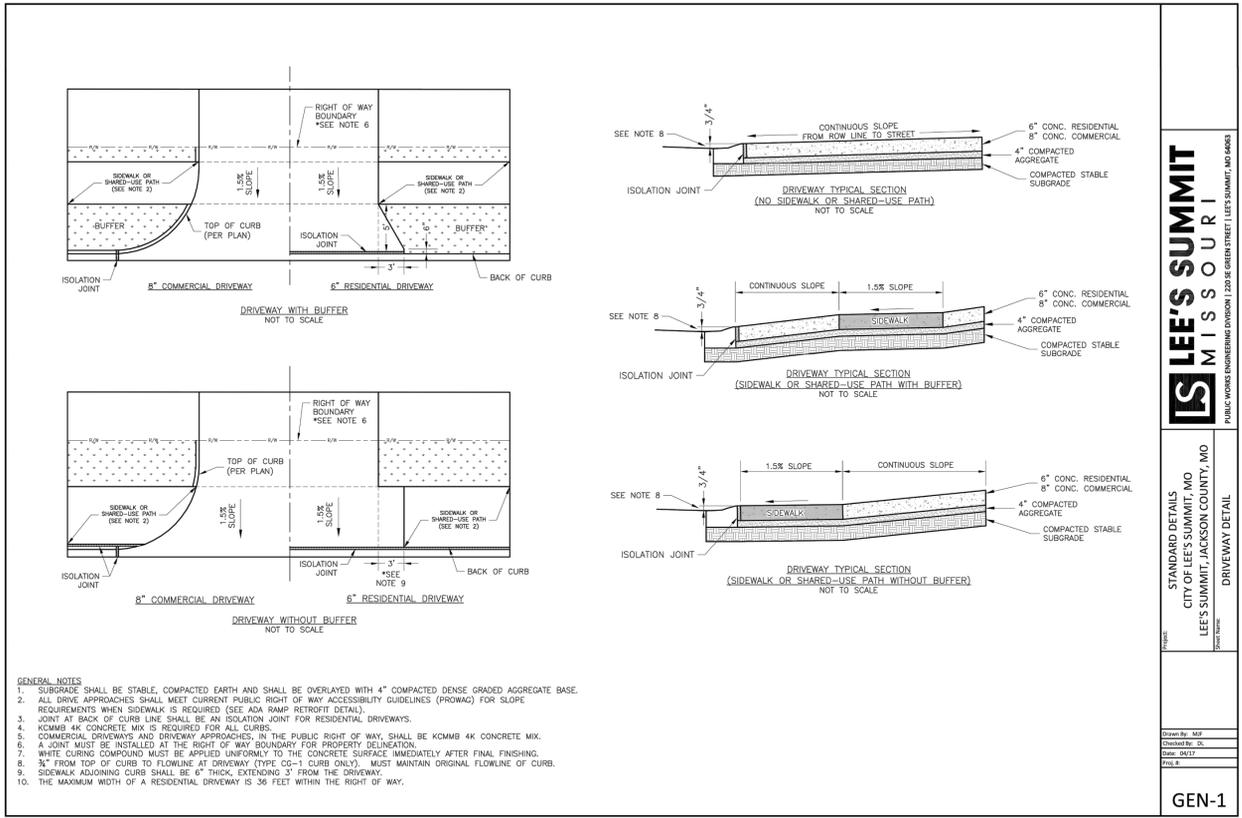
Project No. B18-0330 Date 02.05.20 Drawn RLK

Drawing No. **C10.2**

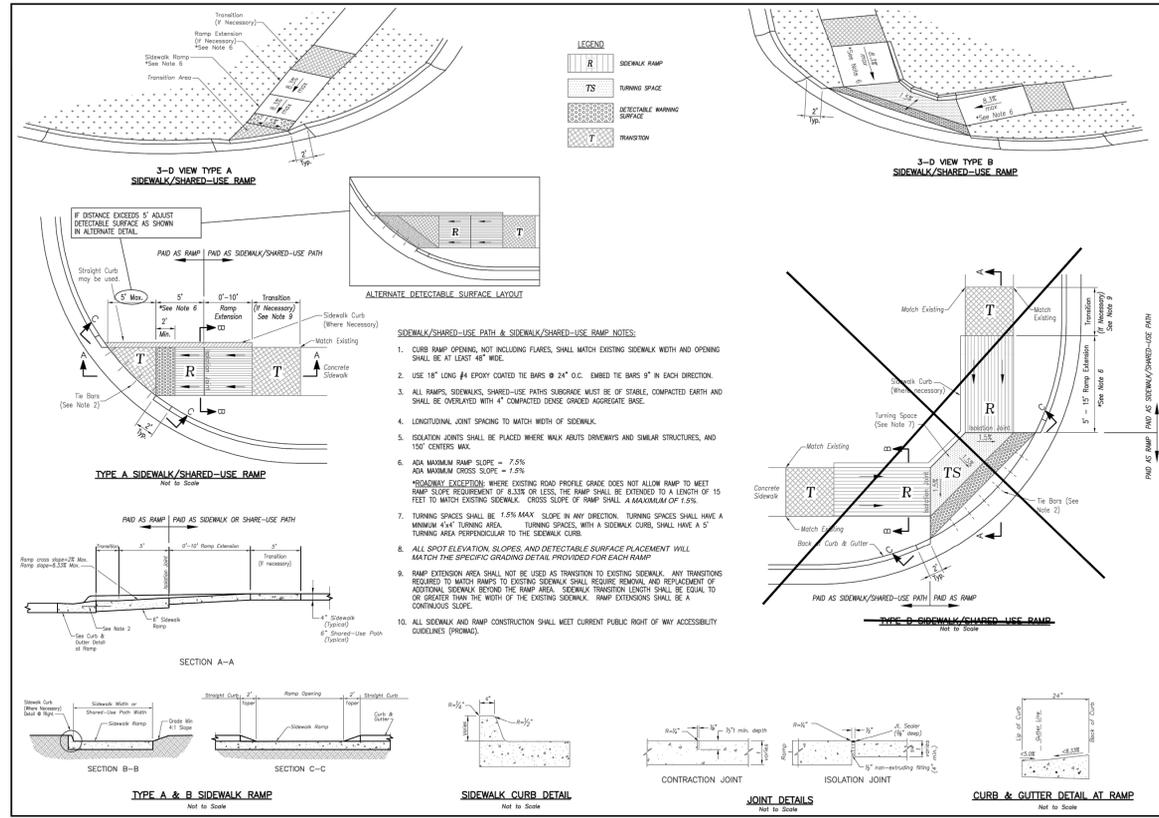
STANDARD DETAILS

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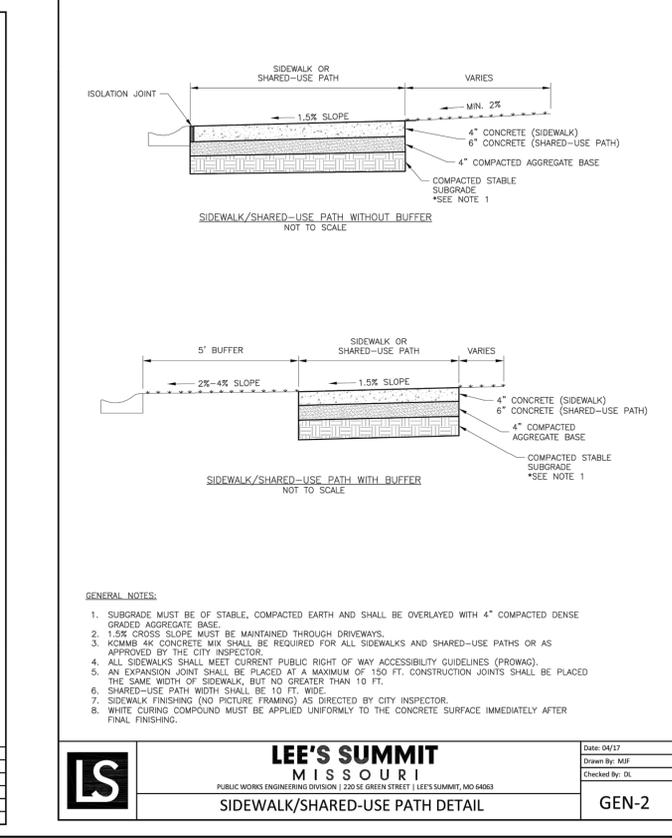
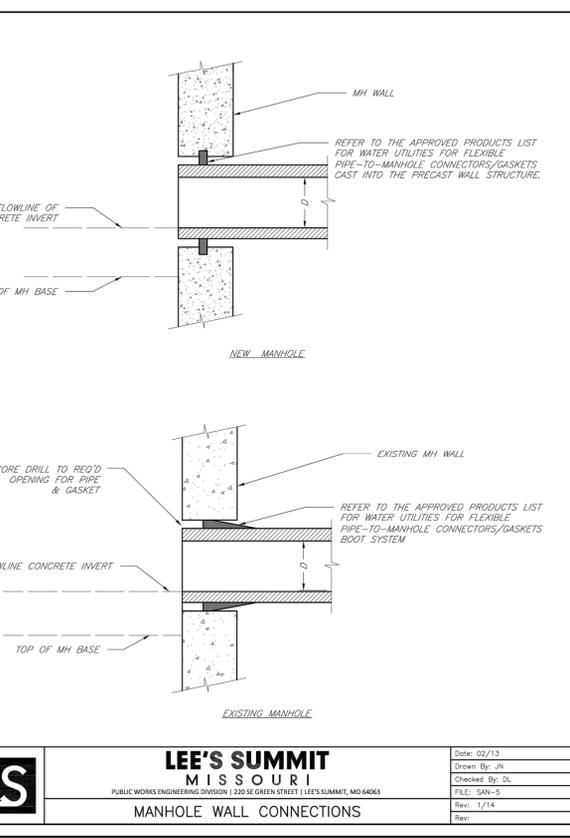
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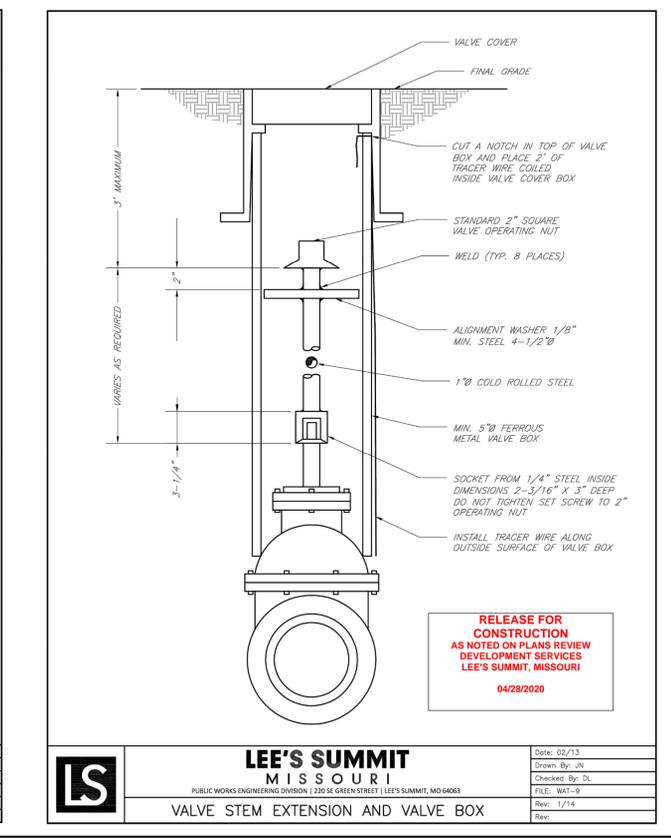
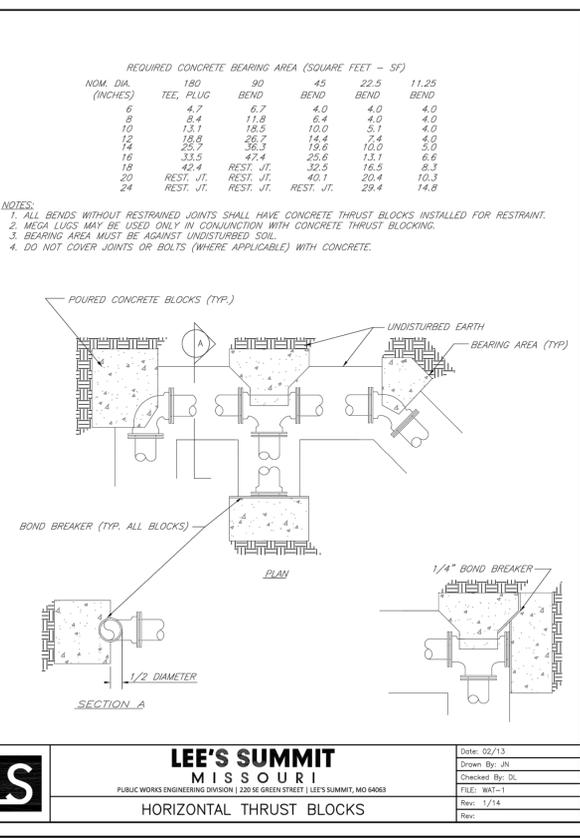
LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64068
 STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO
 ADA RAMP DETAIL
 GEN-1



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 STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO
 ADA RAMP DETAIL
 GEN-3A



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 STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO
 SIDEWALK/SHARED-USE PATH DETAIL
 GEN-2



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 STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO
 VALVE STEM EXTENSION AND VALVE BOX
 GEN-3B

SAPP DESIGN ARCHITECTS
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 Springfield, MO 65804 417.877.9600
 Sapp Design Associates Architects, P.C.
 Missouri State Certificate of Authority #0030607

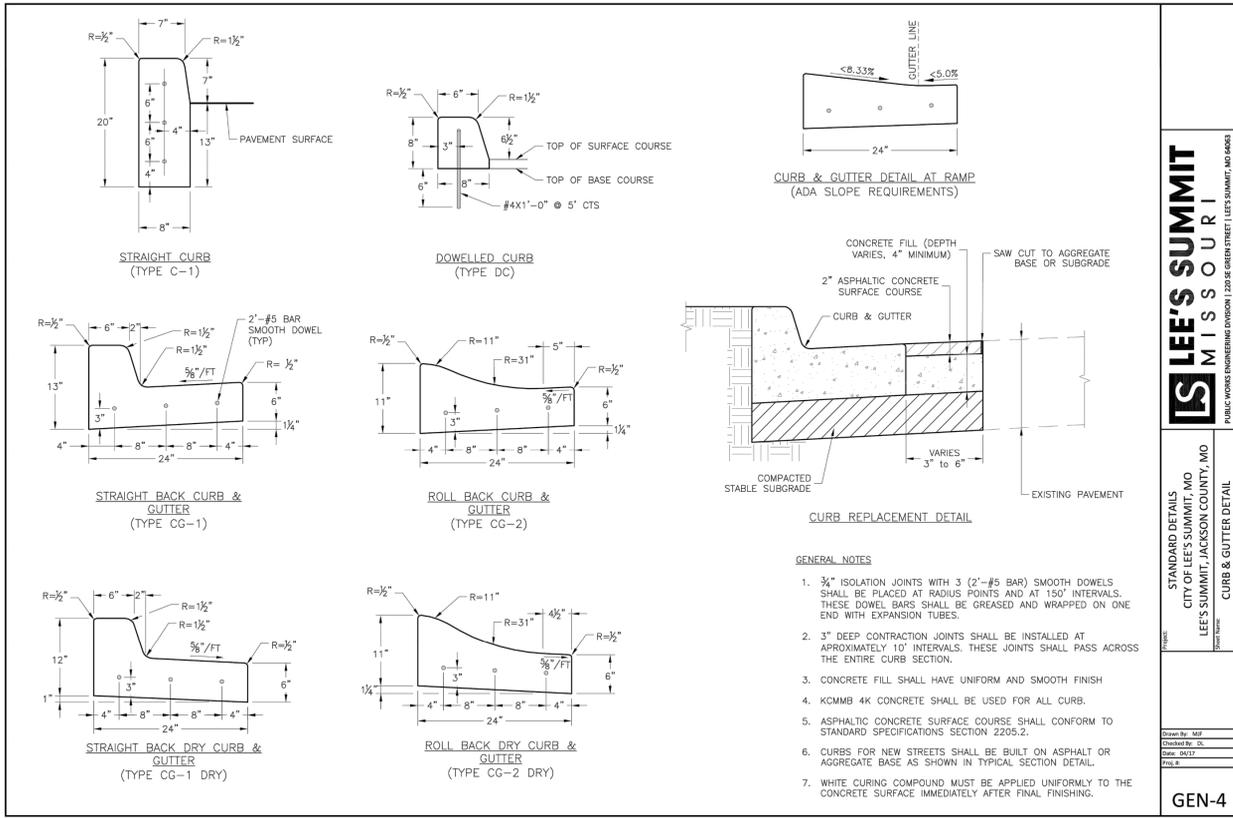
helix.
 1629 Walnut
 Kansas City, MO 64108 816.300.0300

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Mid-Continent Public Library
 CONSTRUCTION DOCUMENTS FOR
COLBURN ROAD BRANCH
 1000 N.E. COLBURN ROAD
 LEE'S SUMMIT, MO 64086
 JACKSON COUNTY

Engineer of Record
TERRY M. PARSONS
 MISSOURI PROFESSIONAL ENGINEER
 NUMBER PE-2018010505
 4/17/2020

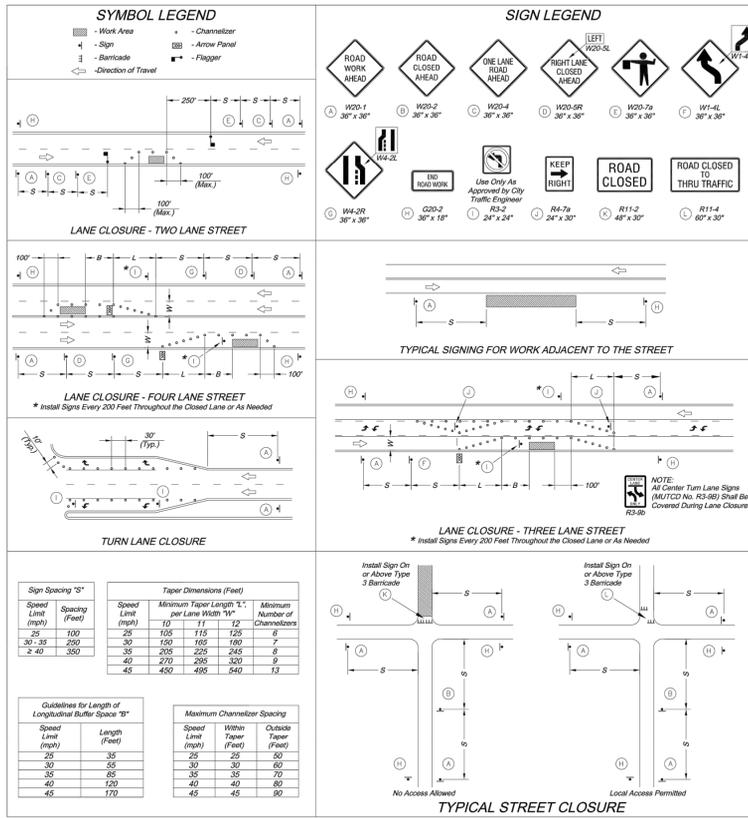
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 FAX 913.381.1174
 www.olson.com
 Missouri State Certificate of Authority #01592
 Revision No. Description Date
 1 CITY COMMENTS 03.19.20
 2 CITY COMMENTS 04.08.20
 3 CITY COMMENTS 04.17.20
 Project No. B18-0330 Date 02.05.20 Drawn RLK
C10.3
 STANDARD DETAILS
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 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64668

STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO
 CURB & GUTTER DETAIL

GEN-4



GENERAL NOTES:

- All signs, barricades, channelizers, markings and other traffic control devices shall conform to the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
- All traffic control devices shall be standard in shape, color, and message, in good condition, and retro-reflective. All signs shall be securely mounted with height and lateral location as described in the MUTCD.
- Warning lights shall be used on barricades in place of right and left warning signs which alert drivers about a change in alignment, traffic control, lane closure, or road closure.
- Flagger shall be used where indicated on the plans, where construction vehicles interact with normal traffic, or where construction activities impose a restriction on traffic, as directed by the City Traffic Engineer. Where flaggers are used, advance signing shall be erected as shown in the details or as specified in the MUTCD. Flaggers shall meet the requirements in the MUTCD in regard to channelizer, training, attire, and behavior.
- Trin-lines are the City's preferred channelizing device. Cones may not be used at nighttime.
- Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
- The Contractor shall use barricades, street plates, or fencing as needed to effectively shield pedestrian and vehicular traffic from approved objects, excavations, and construction activities.
- Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.
- No street shall be closed without the approval of the City Traffic Engineer. The Contractor shall notify the City Traffic Engineer at least 7 days in advance of any street closure. If the closure occurs around the clock it to be provided, advance signing shall be as shown on a plan approved by the City Traffic Engineer.
- Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
- Construction vehicles parked along streets shall be located within the work area traffic control or where otherwise normally permitted. Construction materials, including traffic control and vehicles shall not restrict sight distance for vehicles waiting at street or driver.
- Construction materials shall be kept off of sidewalks, consolidated in one location within City right-of-way, and removed daily unless otherwise approved by the Inspector. Dirt, mud, and other construction debris on streets and sidewalks shall be removed immediately.
- The Contractor shall perform any work that will restrict vehicular traffic in any way between the hours of 7:00 a.m. and 9:00 a.m. or 4:00 p.m. and 6:00 p.m. Monday through Friday unless otherwise indicated in the specifications.
- All travel lanes should be at least 11 feet wide unless otherwise authorized by the City Traffic Engineer. A "Narrow Lane" sign shall be installed in advance of a lane width reduction to less than 11 feet.
- All edge drop-offs of more than 2 inches and less than 4 inches shall be protected by a wedge or barrier and all edge drop-offs greater than 4 inches shall have edge protection (see Traffic Control Specifications for edge treatment requirements).
- The "Maximum Synthetic Sign (MUTCD No. W21-1a) may be used instead of the "Road Work Ahead" sign for work with a duration of 12 hours or less. The "End Road Work" sign is not required to be installed after the "Work Area" sign.
- No traffic signal shall be altered or modified in any way without a plan approved by the City Traffic Engineer.
- The traffic control requirements shown on these plans are minimum requirements only and do not attempt to address in depth the variety of situations that may occur once construction has started. In no way do the requirements shown on these plans relieve the Contractor of his responsibility for selecting the proper traffic control devices and implementation procedures that will assure the safety of drivers, pedestrians, and workers at all times.
- Should the contractor fail to enforce the traffic control plan or fail to clean, replace or otherwise maintain the traffic control devices when directed to do so by the City Traffic Engineer or representative, the City may take one or more of the following actions:
 A) Employ another agency to correct deficiencies in traffic control devices and deduct the cost from the Contractor's pay estimate.
 B) Stop the work until deficiencies are corrected.
 C) Suspend all pay estimates until deficiencies are corrected, or
 D) Place the Contractor in default.

CONES (Dyeline Use Only)
 Dimensions: 4" (Typ.) height, 18" (Typ.) diameter, 4" (Typ.) base.

CHANNELIZERS
 Dimensions: 18" (Typ.) height, 18" (Typ.) diameter, 4" (Typ.) base.

ARROW PANEL
 Dimensions: 8" (Typ.) height, 18" (Typ.) diameter, 4" (Typ.) base.

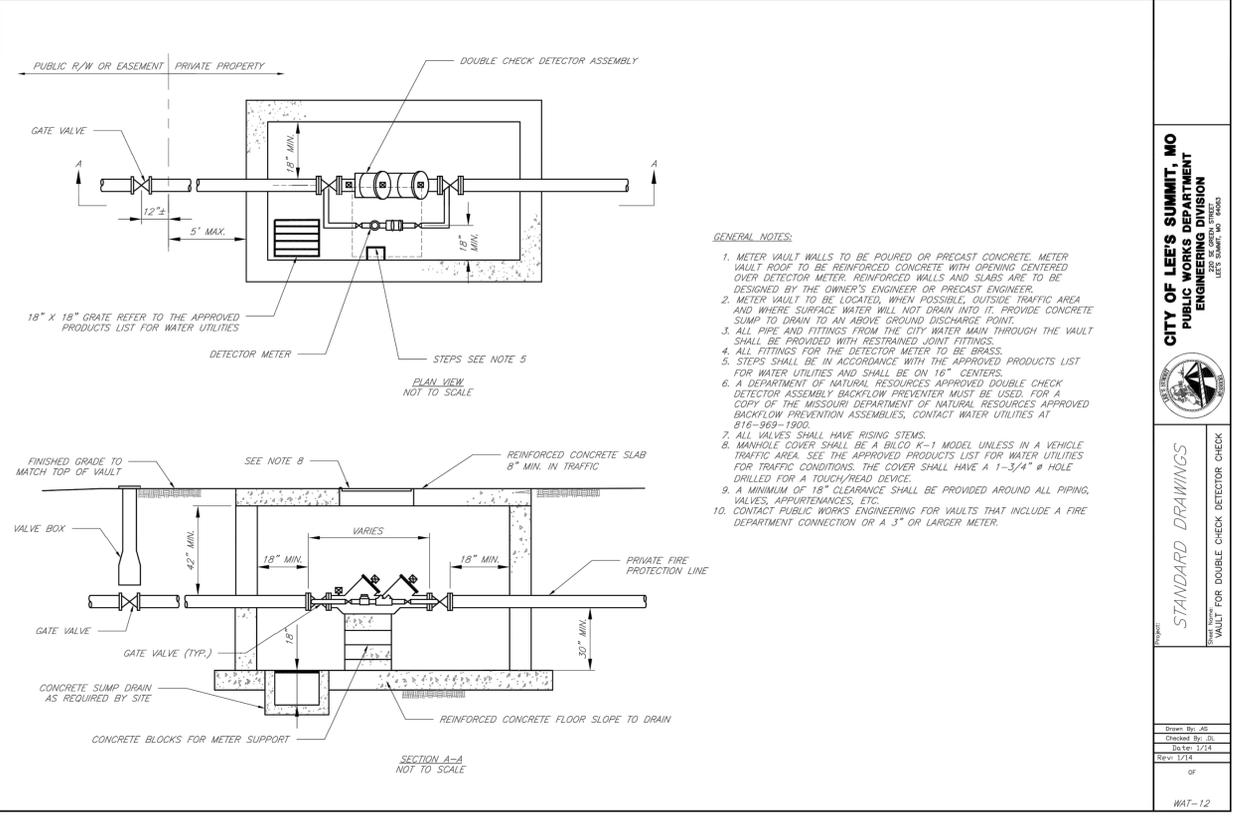
BARRICADES
 Dimensions: 48" (Typ.) height, 18" (Typ.) diameter, 4" (Typ.) base.

LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64668

STANDARD DRAWING TC-1

TRAFFIC CONTROL DETAILS

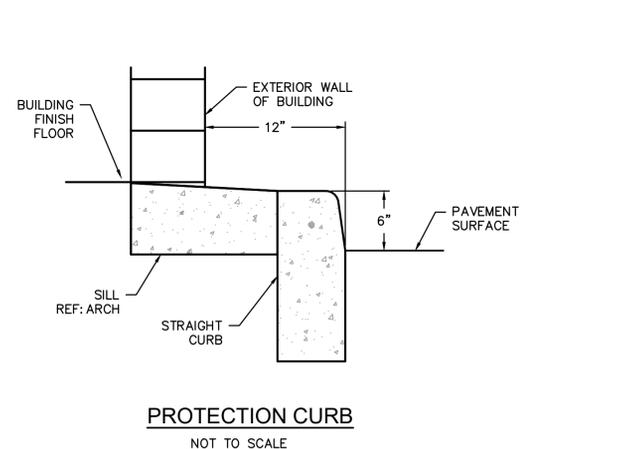
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 Checked By: JMB
 Date: 12-10-2008
 Project No.: X
 Scale: 1" = 10'-0"



CITY OF LEE'S SUMMIT, MO
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 LEE'S SUMMIT, JACKSON COUNTY, MO

STANDARD DRAWINGS
 VAULT FOR DOUBLE CHECK DETECTOR CHECK

Drawn By: AG
 Checked By: JL
 Date: 7/24
 Rev: 1/14
 or
 WAT-12



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 Kansas City, MO 64108 816.300.0300

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PACKAGE **10**

Engineer of Record
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 NUMBER PE-2018010505
 4/17/2020

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Missouri State Certificate of Authority #001592

Revision No.	Description	Date
1	CITY COMMENTS	03.19.20
2	CITY COMMENTS	04.08.20
3	CITY COMMENTS	04.17.20

Project No. B18-0330 Date 02.05.20 Drawn RLK

Drawing No. **C10.4**
 STANDARD DETAILS

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 04/28/2020

