PRCOM20212128

FINAL DEVELOPMENT PLANS
FOR

MID-CONTINENT LIBRARY LEE'S SUMMIT BRANCH

150 SOUTH WEST OLDHAM PKWY
NE 1/4 OF SECTION 1, TOWNSHIP 47 NORTH, RANGE 32 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

UTILITY COMPANIES AND GOVERNING AGENCIES:

CITY OF LEE'S SUMMIT, PUBLIC WORKS:
ENGINEERING
220 SE GREEN
LEE'S SUMMIT, MO 64063
816.969.1800

CITY OF LEE'S SUMMIT, CITY HALL:
220 SE GREEN
LEE'S SUMMIT, MO 64063
816.969.1000

CITY OF LEE'S SUMMIT, FIRE CHIEF:
207 SE DOUGLAS
LEE'S SUMMIT, MO 64063
816.969.7407

CITY OF LEE'S SUMMIT, POLICE CHIEF:
10 NE TUDOR
LEE'S SUMMIT, MO 64086
816.969.1700

WATER UTILITIES:
1200 SE HAMBLEN ROAD
LEE'S SUMMIT, MO 64081
816.969.1900

BUILDING INSPECTIONS
220 SE GREEN
LEE'S SUMMIT, MO 64063
816.969.1200

POWER COMPANY:
EVERGY
8700 EAST FRONT STREET
KANSAS CITY., MO 64120
816.471.5275

GAS COMPANY:
SPIRE GAS
3025 S.E CLOVER ST
LEES SUMMIT, MO 64082
816.756.5252

TELEPHONE:
AT&T
DARRIN SHEPARD
816.275.3825
ds616h@att.com

CABLE/FIBER:
SPECTUM
877.772.2253

GOOGLE FIBER
877.454.6959

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

THE ENTIRETY OF THE SITE LIES WITHIN ZONE X – AREA OF MINIMAL FLOOD HAZARD PER FEMA PANEL 290174 (CITY OF LEE'S SUMMIT, MO)

OWNER & DEVELOPER

MID CONTINENT PUBLIC LIBRARY
DISTRICT NO 3
15616 E US HWY 24
INDEPENDENCE MO 64050–2057

ENGINEER

TERRY PARSONS
OLSSON
7301 W. 133RD STREET SUITE 200
OVERLAND PARK, KS 66213
PHONE: 913.381.1170
EMAIL: tparsons@olsson.com

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

THE ENTIRE PROPERTY IS DESIGNATED "ZONE X – AREA OF MINIMAL FLOOD HAZARD" AS DEFINED BY FEMA PANEL 29095C0438G – EFFECTIVE DATE JANUARY 20, 2017

MISSOURI ONE CALL SYSTEM, INC. 1-800-344-7483 STOP. CALL BEFORE YOU DIG!!

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.

BENCHMARKS

OA Bench Mark #1:
ELEVATION=973.75' (NAVD'88)
SET PUNCH MARK IN CHISELED "□" CUT ON THE TOP EAST SIDE OF A CONCRETE BASE FOR A LIGHT POLE, FIRST LIGHT POLE EAST OF THE ENTRANCE TO GENESIS GYM. 205'± WNW OF THE NW CORNER OF THE MID-CONTINENT PUBLIC LIBRARY, 340' ENE OF THE SOUTH CORNER OF GOODYEAR TIRE STORE.

OA Bench Mark #2:
ELEVATION=952.38' (NAVD'88)
SET CHISELED "X" CUT ON TOP OF CURB ON THE NORTH SIDE OF A CONCRETE CURB ISLAND, WEST OF EQUITY BANK BUILDING. 213'± EAST OF THE EAST FACE OF THE MID-CONTINENT PUBLIC LIBRARY, 22' EAST OF THE ℄ OF MCCLENDON DRIVE.

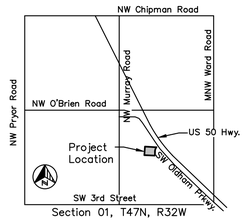
LEGAL DESCRIPTION:

LIBRARY PROPERTY
MID-CONTINENT ADD TRACT A
JACKSON COUNTY, MISSOURI,
CONTAINING 70,306 SQUARE FEET OR
1.6140 ACRES, MORE OR LESS.

SHOPPING CENTER PROPERTY
SUMMIT SHOPPING CENTER LOT 1
JACKSON COUNTY, MISSOURI,
CONTAINING 722,033 SQUARE FEET OR
16.5756 ACRES, MORE OR LESS.

ADDED SHEET 2

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/21/2021
Mike Weisenbeck



Section 01, T47N, R32W
VICINITY MAP
Scale: 1" = 2000'

SAPP DESIGN ARCHITECTS
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
Helix Architecture + Design
Missouri State Certificate of Authority #000720

SPECIAL NOTICES

Mid-Continent Public Library
CONSTRUCTION DOCUMENTS
LEE'S SUMMIT LIBRARY
150 NW Oldham Parkway
LEE'S SUMMIT, MO 64081
JACKSON COUNTY

PACKAGE 15

Engineer of Record
STATE OF MISSOURI * TERRY M. PARSONS NUMBER PE-2010010505 * PROFESSIONAL ENGINEER
11/3/2021
Terry M Parsons, Engineer MO PE-2018010505

olsson
7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
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Olsson
Missouri State Certificate of Authority #001592

Revision No.	Description	Date
02	ASI01	06.26.21

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.
C1.0
COVER SHEET

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\C_COV01_0180330.dwg USER: bkimmich
DATE: Oct 14, 2021 7:25am XREFS: C_TBLK_0180330

GENERAL NOTES:

1. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", 1(800)344-7483 OR 811 AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!!
2. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
3. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
4. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES AND FOR BRINGING THE PROJECT TO THE LINES AND GRADES SHOWN HEREIN. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO 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.
5. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS *OF THE AMERICAN PUBLIC WORKS ASSOCIATION – KANSAS CITY METROPOLITAN CHAPTER (APWA-KC) AND* THE CITY OF LEE'S SUMMIT, MO, EXCEPT WHERE SHOWN OTHERWISE. NOTIFY ENGINEER OF DISCREPANCIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
7. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF MISSOURI STATE LAW WHICH REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM UTILITY COMPANIES.
8. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
9. THE CONTRACTOR SHALL LIMIT THE REMOVAL OF TREES TO THE LIMITS OF DEMOLITION SHOWN ON THE DEMOLITION PLAN.
10. CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
11. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
12. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
13. 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.
14. 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.
15. IF PRECAST CONCRETE STORM SEWER STRUCTURES ARE TO BE USED ON THIS PROJECT, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND HAVE THEM APPROVED BY THE ENGINEER PRIOR TO FABRICATION OF THE STRUCTURES. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION.
19. EXISTING TOPSOIL SHALL BE STRIPPED TO A POINT WHERE ALL VEGETATION IS REMOVED. REFER TO THE GEOTECHNICAL REPORT PROVIDED BY CFS ENGINEERS, PROJECT NO. 20-1074 AND DATED JUNE 8, 202 AND ALL ADDENDUMS FOR ADDITIONAL REQUIREMENTS.
20. THE CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO THE SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED.
21. 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.
22. 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.
23. THE CONTOUR LINES SHOWN ARE FOR MASS GRADING PURPOSES.
24. EXISTING CONTOURS REPRESENT MASS FINISH GRADE ELEVATIONS.
25. 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.
26. THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE IN THE BORROW AREA.
27. 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.
28. 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.
29. BY ACCEPTING AND UTILIZING ANY ELECTRONIC FILE OF ANY DRAWING, REPORT OR DATA TRANSMITTED BY OLSSON (OLSSON), THE RECIPIENT AGREES FOR ITSELF, ITS SUCCESSORS, ASSIGNS, INSURERS AND ALL THOSE CLAIMING UNDER OR THROUGH IT, THAT BY USING ANY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE, ALL USERS AGREE TO BE BOUND BY THE FOLLOWING TERMS. ALL OF THE INFORMATION CONTAINED IN THIS ELECTRONIC FILE IS THE WORK PRODUCT AND INSTRUMENT OF SERVICE OF OLSSON, WHO SHALL BE DEEMED THE AUTHOR, AND SHALL RETAIN ALL COMMON LAW, STATUTORY LAW AND OTHER RIGHTS, INCLUDING COPYRIGHTS, UNLESS THE SAME HAVE PREVIOUSLY BEEN TRANSFERRED IN WRITING TO THE RECIPIENT. THE INFORMATION CONTAINED IN THE ELECTRONIC FILE IS PROVIDED FOR THE CONVENIENCE OF THE RECIPIENT AND IS PROVIDED IN "AS IS" CONDITION. THE RECIPIENT IS AWARE THAT DIFFERENCES MAY EXIST BETWEEN THE ELECTRONIC FILES AND THE PRINTED HARD-COPY ORIGINAL SIGNED AND SEALED DRAWINGS OR REPORTS. IN THE EVENT OF A CONFLICT BETWEEN THE SIGNED AND SEALED ORIGINAL DOCUMENTS PREPARED BY OLSSON AND THE ELECTRONIC FILES TRANSFERRED HEREWITH, THE SIGNED AND SEALED ORIGINAL DOCUMENTS SHALL GOVERN. OLSSON SPECIFICALLY DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ELECTRONIC FILES. IT SHALL BE THE RECIPIENT'S RESPONSIBILITY TO CONFIRM THE ACCURACY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE AND THAT IF ACCURATELY REFLECTS THE INFORMATION NEEDED BY THE RECIPIENT. THE RECIPIENT SHALL NOT RETRANSMIT THE ELECTRONIC FILE, OR ANY PORTION THEREOF, WITHOUT INCLUDING THIS DISCLAIMER AS PART OF ANY SUCH TRANSMISSION. IN ADDITION, THE RECIPIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS OLSSON, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS AGAINST ANY AND ALL DAMAGES, LIABILITIES, CLAIMS OR COSTS, INCLUDING REASONABLE ATTORNEY'S AND EXPERT WITNESS FEES AND DEFENSE COSTS, ARISING FROM ANY CHANGES MADE BY ANYONE OTHER THAN OLSSON OR FROM ANY REUSE OF THE ELECTRONIC FILES WITHOUT THE PRIOR WRITTEN CONSENT OF OLSSON.
30. 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.
31. 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.
32. HANDICAP PARKING STALLS SHALL BE SIGNED WITH CITY/ADA APPROVED SIGNAGE AND CONSTRUCTED IN STRICT ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS *OF THE APWA-KC,* 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.
33. ALL WATER LINES SHALL BE INSTALLED PER THE LATEST STANDARDS AND SPECIFICATIONS *OF THE APWA-KC AND* THE CITY OF LEE'S SUMMIT, MO. ALL WATER LINES SHALL BE A MINIMUM OF 48 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN.
34. 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.
35. ALL EXTERIOR CONCRETE SHALL BE KCMMB-4K AND 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.
36. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND.
37. CONCRETE PAVEMENT JOINTS SHALL BE CONSTRUCTED AS FOLLOWS (REFER TO HARDSCAPE PLANS FOR SPECIFIC TREATMENT OF THESE AREAS):
    A. CONTROL JOINTS SPACED AT INTERVALS NOT GREATER THAN 12 FEET AND TOOLED TO 1/3 THE SLAB THICKNESS.
    B. CONSTRUCTION JOINTS AT THE END OF EACH POUR AND WHEN PAVING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE.
    C. ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABUTS THE BUILDING, DRAINAGE STRUCTURES AND OTHER FIXED STRUCTURES, CONSTRUCTED WITH A 1/2" NONEXTRUDING FILLER, CLOSED-CELL FOLSSONM RUBBER OR A BITUMEN-TREATED FIBER-BOLSSONRD, AND WITH A THICKENED EDGE, INCREASED BY 20 PERCENT, TAPERED TO THE REGULAR THICKNESS IN 5 FEET.
    D. ALL EXPANSION JOINTS SHALL BE FILLED AND SEALED WITH A PLASTIC JOINT SEALANT MATERIAL.
35. 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.
36. ANY CONTRACTOR BIDDING ANY PORTION OF THIS WORK SHALL HAVE IN HIS OR HER POSSESSION A COMPLETE SET OF CONSTRUCTION DOCUMENTS AND BE FAMILIAR WITH ALL SCOPES OF WORK AND TRADES TO UNDERSTAND THEIR INTERACTIONS.
37. EXISTING TOPSOIL SHALL BE STRIPPED TO A POINT WHERE ALL VEGETATION IS REMOVED. REFER TO THE GEOTECHNICAL REPORT PROVIDED BY OLSSON DATED 01/09/2019 AND ALL ADDENDUMS.
38. SITE PREPARATION, GRADING AND EXCAVATION PROCEDURES SHALL CONFORM TO THE RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL REPORT PREPARED BY OLSSON DATED 01/09/2019 AND ALL ADDENDUMS.
39. ALL SIGNS MUST COMPLY WITH THE SIGN REQUIREMENTS AS OUTLINED IN THE SIGN SECTION OF THE UDO OR AS APPROVED ON THESE PLANS. SIGNS WILL BE REVIEWED AND PERMITTED UNDER SEPARATE APPLICATION.

GENERAL UTILITY NOTES

39. 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.
40. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SLEEVING UNDER PAVING AREAS WHERE NECESSARY.
41. INSTALL ALL PIPE LENGTHS, BENDS AND FITTINGS NECESSARY FOR UTILITY CONNECTIONS.
42. 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.
43. 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.
44. CONTRACTOR RESPONSIBLE FOR PAYING ALL TAP AND CONNECTION FEES AND SHALL CONTRACT AND PAY FOR ANY REQUIRED SUB CONTRACTORS BY UTILITY COMPANIES.
45. REFERENCE MEP PLANS FOR BUILDING CONNECTIONS.
46. CONTRACTOR TO REPAIR ALL AREA DAMAGED BY CONSTRUCTION TO EXISTING CONDITIONS OR BETTER.
47. BACK FLOW PREVENTION TO BE PROVIDED INSIDE BUILDING. SEE MEP AND ARCHITECTURAL PLANS FOR DETAILS.
48. LOCATION FOR POWER SHOWN IS APPROXIMATE AND SUBJECT TO CHANGE. CONTRACTOR TO VERIFY FINAL LOCATION AND DESIGN WITH UTILITY COMPANY PRIOR TO CONSTRUCTION.
49. 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.
50. WATER METER CANNOT BE INSTALLED IN THE BUILDING.
51. CONTRACTOR SHALL COORDINATE CABLE/FIBER OPTIC CONDUIT AND SERVICE INSTALLATION WITH UTILITY COMPANY.
52. ALL TAPS AND CONNECTIONS FOR FIRE AND DOMESTIC WATER SERVICES ARE TO BE IN ACCORDANCE WITH THE CITY OF LEE' SUMMIT, MO, STANDARDS AND SPECIFICATIONS.
53. CONTRACTOR TO COORDINATE POWER ROUTING TO MONUMENT SIGNS NOT SHOWN ON PLANS.
54. 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.
55. 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.

PAVEMENT MARKING NOTES:

1. PAVEMENT MARKING PAINT: LATEX, WATER-BASE EMULSION, READY-MIXED, COMPLYING WITH FS TT-P-1952 WITH DRYING TIME OF LESS THAN 45 MINUTES.
2. DO NOT APPLY PAVEMENT MARKING PAINT UNTIL LAYOUT, COLORS AND PLACEMENT HAVE BEEN VERIFIED WITH THE ARCHITECT.
3. ALLOW PAVING TO AGE FOR 24 HOURS BEFORE MARKING.
4. SWEEP AND CLEAN SURFACE PRIOR TO INSTALLING PAVEMENT MARKINGS.
5. APPLY PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE MARKINGS WITH UNIFORM STRAIGHT EDGES. PROVIDE A MINIMUM WET FILM THICKNESS OF 15 MILS.
6. THIS WORK SHALL CONSIST OF FURNISHING AND APPLYING PAINT ON PAVEMENT SURFACES, IN TRAFFIC LANES, PARKING BAYS, AREAS RESTRICTED TO HANDICAPPED PERSONS, CROSSWALKS, AND OTHER DETAIL PAVEMENT MARKINGS, IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS.
7. DETAILS NOT SHOWN SHALL BE IN CONFORMITY WITH THE STATE STANDARDS FOR TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND SIMILAR REQUIREMENTS ESTABLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
8. ALL PARKING LOT STRIPING SHALL BE SINGLE LINE 4" WIDE AS PER THE SITE PLANS.
9. PAINT FOR MARKING PAVEMENT SHALL CONFORM TO FEDERAL HIGHWAY MARKING STANDARDS. USE SHERWIN WILLIAMS PROMAR TRAFFIC MARKING PAINT, COLORS TO MATCH THE EXISTING ADJACENT INSTALLATIONS. USE FLAT BLACK, WHITE OR YELLOW, WHERE APPROPRIATE. UNLESS OTHERWISE DIRECTED, USE THE FOLLOWING:
    A. BLACKTOP OR BITUMINOUS ASPHALT PAVING: USE WHITE COLOR.
    B. PORTLAND CEMENT CONCRETE PAVING: USE YELLOW COLOR.
    C. HANDICAPPED ACCESSIBLE PARKING AND ENTRYWAYS: USE WHITE COLOR WITH WHITE STRIPES.
    D. PROVIDE PAINTED CURBS AT FIRE LANE DESIGNATIONS PER FIRE MARSHAL REQUIREMENTS.
10. APPLY ALL MARKINGS USING APPROVED MECHANICAL EQUIPMENT (WITH PROVISIONS FOR CONSTANT AGITATION OF PAINT), CAPABLE OF APPLYING THE MARKING WIDTHS AS SHOWN. USE PNEUMATIC SPRAY GUNS FOR HAND APPLICATION OF PAINT. ALL PAINTING EQUIPMENT AND OPERATIONS SHALL BE UNDER THE CONTROL OF EXPERIENCED TECHNICIANS THOROUGHLY FAMILIAR WITH EQUIPMENT AND MATERIALS AND MARKING LAYOUTS.
11. DETAIL PAVEMENT MARKINGS SHALL BE THAT MARKING, EXCLUSIVE OF ACTUAL TRAFFIC LANE MARKING, AT EXIT AND ENTRANCE ISLANDS AND TURNOUTS, ON CURBS, AT CROSSWALKS, AT PARKING BAYS AND AT SUCH OTHER LOCATIONS AS SHOWN. HANDICAPPED PARKING SPACES SHALL BE MARKED BY THE INTERNATIONAL HANDICAPPED SYMBOL AT INDICATED PARKING SPACES. USE A SUITABLE TEMPLATE THAT WILL PROVIDE A PAVEMENT MARKING WITH TRUE, SHARP EDGES AND ENDS.

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

THE ENTIRE PROPERTY IS DESIGNATED "ZONE X – AREA OF MINIMAL FLOOD HAZARD" AS DEFINED BY FEMA PANEL 29095C0438G – EFFECTIVE DATE JANUARY 20, 2017

MISSOURI ONE CALL SYSTEM, INC. 1-800-344-7483 STOP-CALL BEFORE YOU DIG!!

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/21/2021

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.

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SPECIAL NOTICES

In the event the client consents to, allows, authorizes or approves 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 & wherever 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
LEE'S SUMMIT LIBRARY
150 NW Oldham Parkway
LEE'S SUMMIT, MO 64081
JACKSON COUNTY

PACKAGE 15

Engineer of Record
STATE OF MISSOURI TERRY M. PARSONS NUMBER PE-2018010505 PROFESSIONAL ENGINEER 10/13/2021
Terry M Parsons, Engineer MO PE-2018010505

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Revision No.	Description	Date

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.
C1.1
GENERAL NOTES

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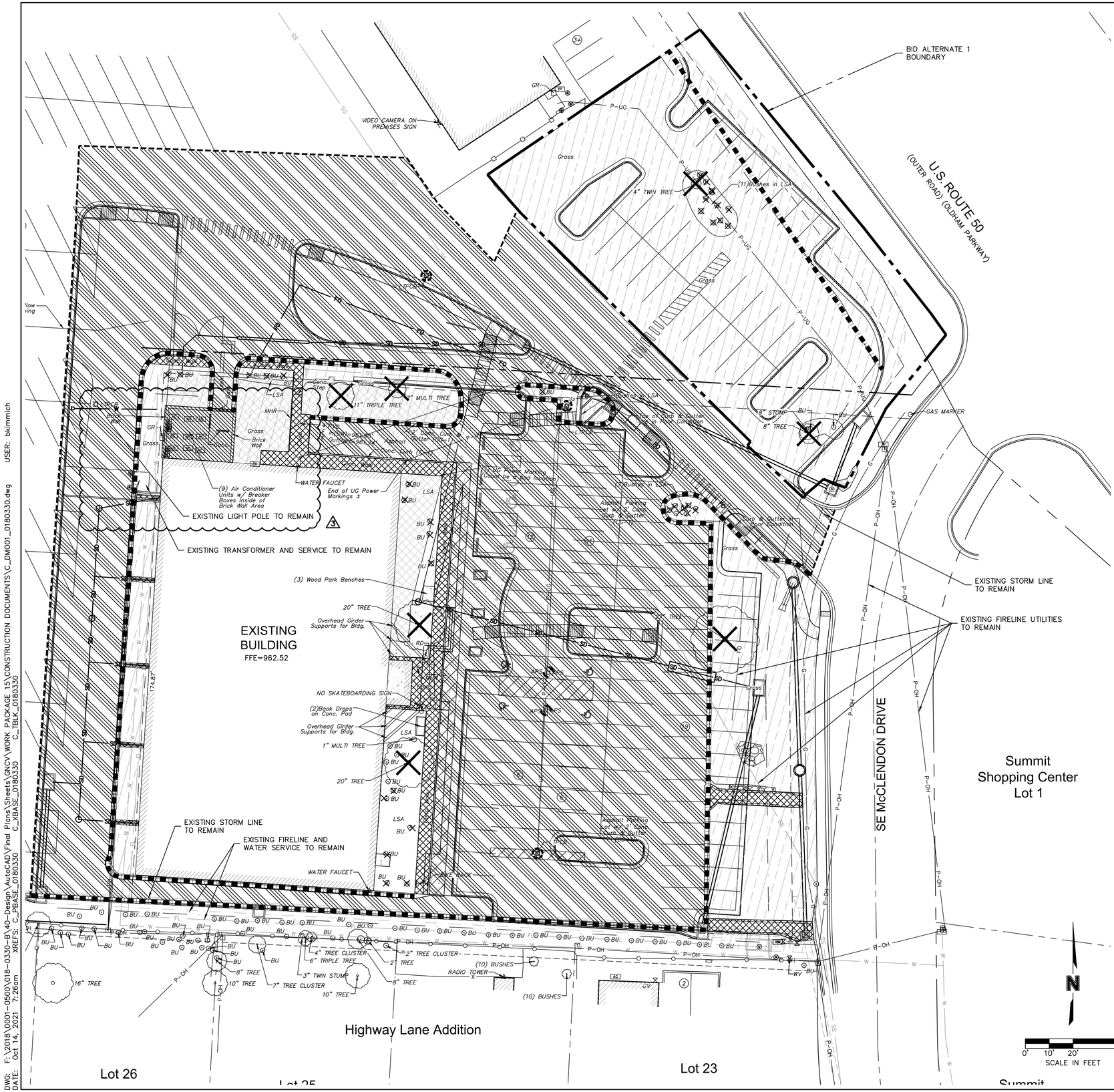

EXISTING CONDITIONS LEGEND

- 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
- SD — STORM SEWER LINE
- [#] — # OF EXISTING SPACES

KEY NOTE LEGEND

1	REMOVE EXISTING CURB AND GUTTER
2	REMOVE EXISTING CONCRETE
3	REMOVE EXISTING ASPHALT
4	REMOVE EXISTING LANDSCAPING
5	REMOVE EXISTING SIDEWALK
6	SAWCUT EXISTING PAVEMENT
7	REMOVE EXISTING TREES
8	REMOVE EXISTING SHRUBS
9	PROTECT EXISTING STORM SEWER PIPE & STRUCTURE
10	REMOVE AND SALVAGE EXISTING LIGHT POLES. CAP EXISTING CONNECTIONS.
11	REMOVE AND SALVAGE EXISTING SIGNS
12	REMOVAL AND EQUIPMENT PAD AND SALVAGE EQUIPMENT.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
10/21/2021

DEMOLITION NOTES

1. CONTRACTOR TO PRESERVE ALL SURVEY CONTROL.
2. CONTRACTOR TO COMPLETE DEMOLITION PER THE INTENT OF THESE PLANS AND THAT NECESSARY FOR NEW GRADING PER 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 LOCATE ALL PUBLIC AND PRIVATE UTILITIES AND RELOCATE AS NECESSARY. CONTRACTOR SHALL CONTACT MISSOURI ONE CALL 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. CONTRACTOR SHALL REPAIR ALL UTILITIES DAMAGED AT CONTRACTOR'S EXPENSE.
5. ALL ITEMS REMOVED AND NOTE SALVAGED SHALL BE LEGALLY DISPOSED OFF SITE BY THE CONTRACTOR.
6. DO NOT DISRUPT UTILITY SERVICE TO ADJACENT BUSINESSES OR RESIDENCES WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER OR OWNER.
7. DO NOT DISRUPT TRAFFIC ON ADJACENT PUBLIC STREETS WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY.
8. 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.
9. 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.
10. 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.
11. CONTRACTOR SHALL PROTECT THE PUBLIC AT ALL TIME WITH FENCING, BARRICADES, ENCLOSURES, ETC. TO THE BEST PRACTICES AND AS APPROVED BY THE ENGINEER AND THE OWNER.
12. DAMAGE TO EXISTING CURB, ASPHALT, CONCRETE PAVING OR STORM STRUCTURES AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPLACED AND/OR REPAIRED AT CONTRACTOR'S EXPENSE. ALL REPLACEMENT SHALL BE JOINT TO JOINT. NO PARTIAL REPLACEMENT WILL BE ALLOWED.
13. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THESE PLANS.
14. SEE UTILITY PLANS FOR ADDITIONAL INFORMATION.
15. CONTRACTOR TO SALVAGE SITE MISCELLANEOUS SITE ITEMS SUCH AS EQUIPMENT, , SIGNS, BENCHES AND TRASH RECEPTACLES FOR USE BY MCPL IN FUTURE CONDITIONS. ITEMS NOT ACCEPTED BY MCPL FOR SALVAGE SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

BID ALTERNATE

1 PROPOSED DEMOLITION WITHIN THIS BOUNDARY SHALL BE INCLUDED IN BID ALTERNATE 1.

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B18-0330	10.12.2020	HMO

Drawing No.
C1.2
DEMOLITION PLAN

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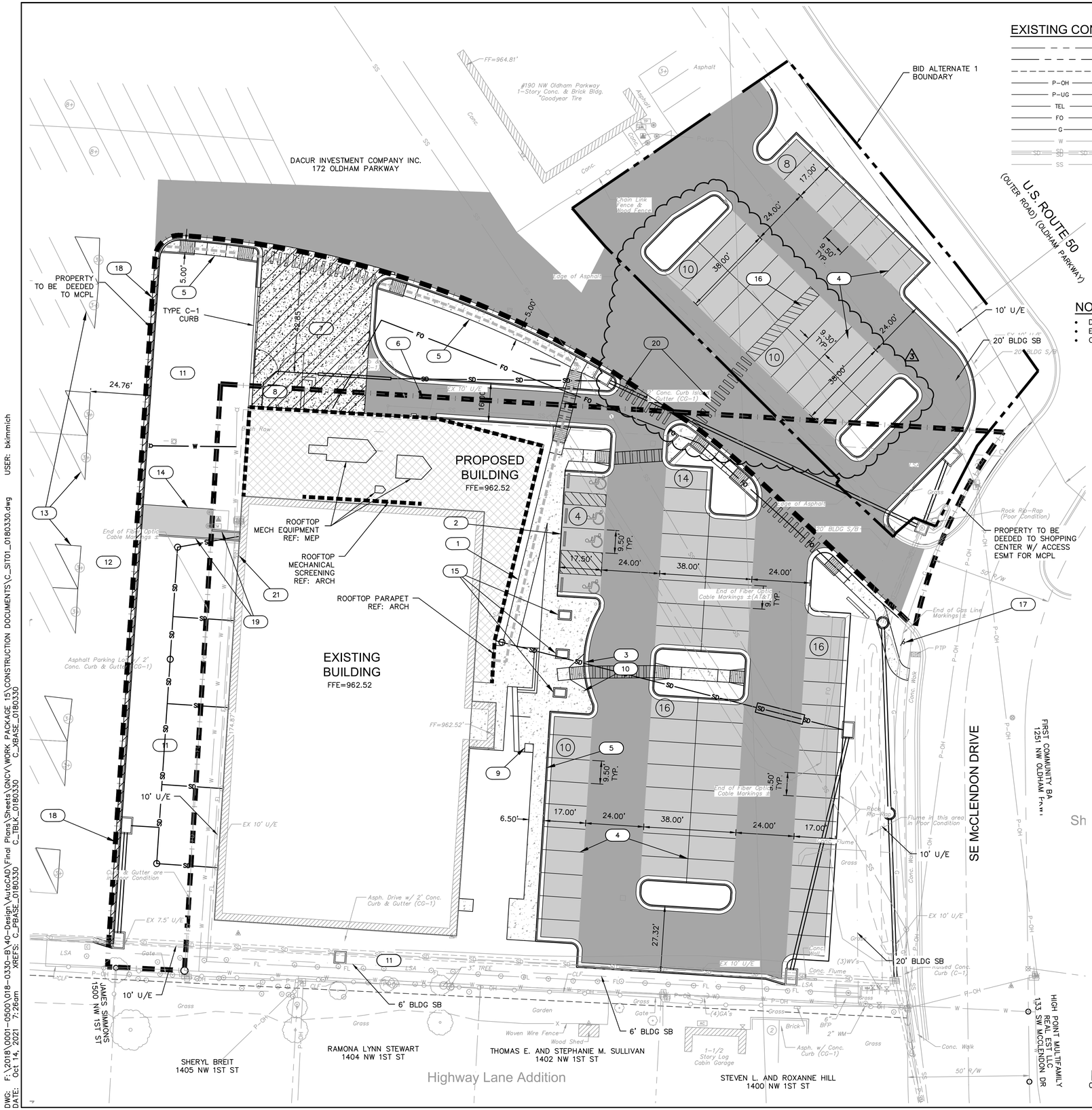

EXISTING CONDITIONS LEGEND

- 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
- SD — 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
- PROPOSED AGGREGATE PATH
- TYPE CG-1 CONCRETE CURB & GUTTER
- PROPOSED CONCRETE PAVEMENT (SIDEWALK)
- PROPOSED PCC (PORTLAND CEMENTPAVEMENT)
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- PROPOSED LIGHT DUTY ASPHALT PAVEMENT
- ADA PATH – SIDEWALKS NOT DELINEATED AS ADA PATHS MAY NOT BE ADA COMPLIANT.
- ACCESSIBLE RAMP
- (X) PROPOSED PARKING COUNT

NOTE

- DIMENSIONS ARE TO BACK OF CURB
- EDGE PARKING STALLS ARE 9.5'X17'
- CENTRAL PARKING STALLS ARE 9.5'X19'

SITE DATA						
	PRE CONSTRUCTION			POST CONSTRUCTION		
	TOTAL	LIB	SC	TOTAL	LIB	SC
SITE AREA (AC) - ZONING CP-2						
SITE AREA :	18.2	1.6	16.6	18.2	1.7	16.5
DISTURBED AREA:	2.6	1.6	0.9	2.6	1.7	0.9
IMPERVIOUS:	1.8	1.2	0.5	1.7	1.2	0.5
PERVIOUS:	0.8	0.4	0.4	0.9	0.5	0.4
% IMPERVIOUS:	69%	76%	58%	66%	72%	56%
% PERVIOUS	31%	24%	42%	34%	28%	44%
BUILDING AREA (SF)						
BUILDING AREA	16500	16500	0	22600	22600	0
FAR (0.55 MAX):	23%			31%		
PARKING						
PARKING SPACES	83	53	30*	96	68**	28
ADA	3	3	0	4	4***	0
NOTES: (LIB - LIBRARY PROPERTY, SC - SHOPPING CENTER PROPERTY)						
* 30 SPACES REMOVED WEST OF EXISTING LIBRARY, 28 SPACES WILL BE						
** 3 PER 1000 SF = 66						
** 3 ADA SPACES ARE REQUIRED PER CITY TABLE						

KEYNOTES:

1 CONSTRUCT ADA ACCESSIBLE RAMP
2 ADA PARKING STALL LAYOUT
3 PROPOSED DROP OFF ZONE
4 INSTALL PAVEMENT STRIPING – TYPICAL.
5 INSTALL CONCRETE SIDEWALK
6 PROPOSED DRIVE THRU WINDOW AND LANE
7 SERVICE AREA
8 TRASH ENCLOSURE
9 PROPOSED BOOK DROP-OFF
10 PROPOSED BOLLARD (TYPICAL)
11 ADDITIONAL GREEN SPACE
12 RELOCATED DRIVE LANE
13 REVISED STRIPING IN EXISTING LOT
14 10' ACCESS ASPHALT LANE FOR TRANSFORMER
15 PROPOSED PLANTERS
16 PROPOSED STRIPED ISLAND
17 PROPOSED SIGN
18 FIRE LANE (RED CURB) – SEE FIRE SIGNAGE AND MARKING NOTE
19 STRAIGHT BACK CURB FOR FLUME FOR SPRINKLER DRAIN
20 CONSTRUCT SPEED TABLE AT PEDESTRIAN CROSSING PER DETAIL ON C8.1
21 ADD SIGNAGE TO EXISTING FDC – SEE FIRE SIGNAGE AND MARKING NOTE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
10/21/2021

BID ALTERNATE

1 PROPOSED IMPROVEMENTS WITHIN THIS BOUNDARY SHALL BE INCLUDED IN BID ALTERNATE 1.

FIRE SIGNAGE AND MARKING NOTE:
Where required by the fire code official, approved signs or other approved notices or markings that include the words NO PARKING—FIRE LANE shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof. The means by which fire lanes are designated shall be maintained in a clean and legible condition at all times and be replaced or repaired when necessary to provide adequate visibility.

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Drawing No. **C2.0**

SITE DIMENSION PLAN

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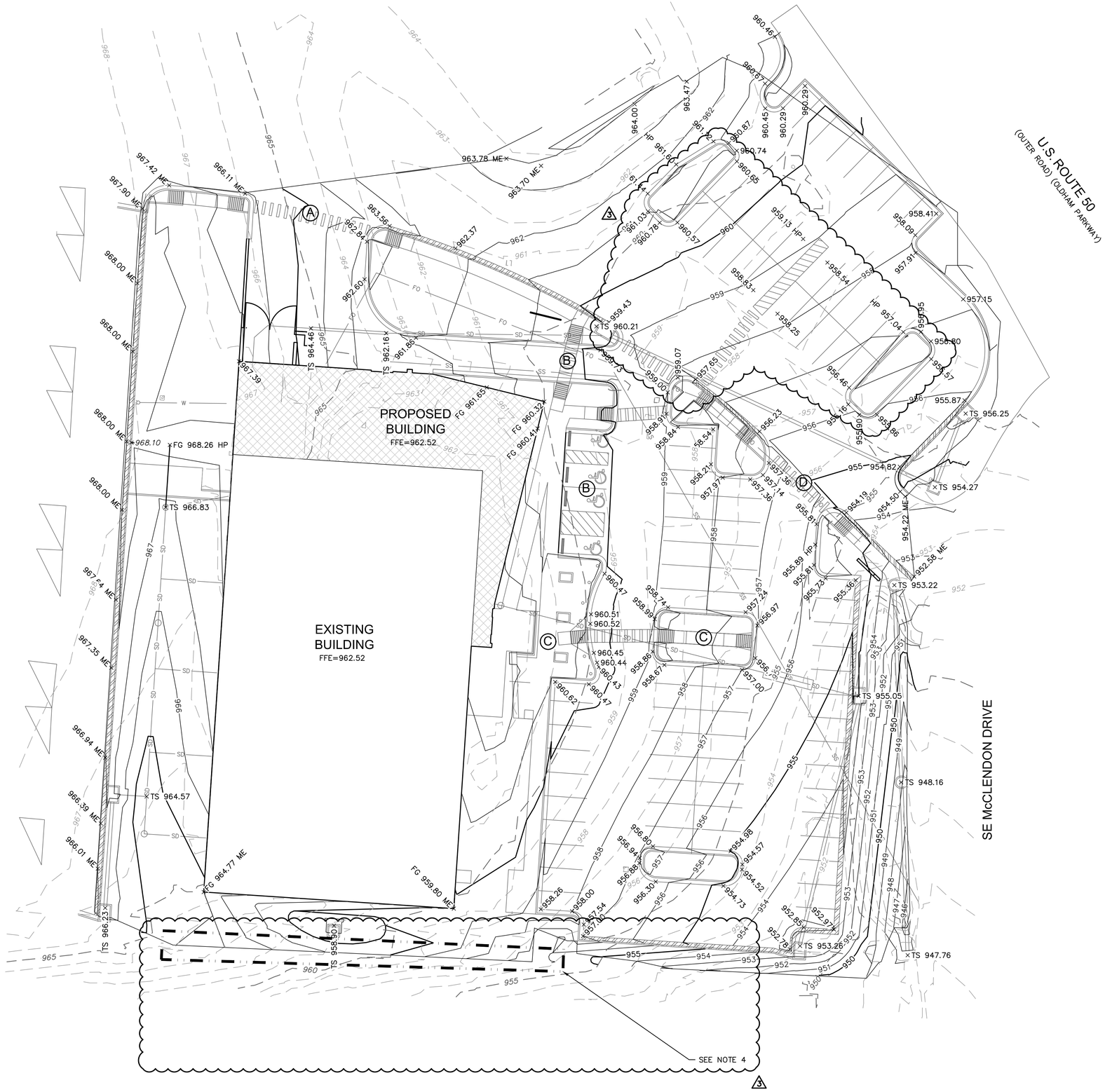

LEGEND

- PROPERTY LINE
- 995 EXISTING MAJOR CONTOUR
- 995 EXISTING MINOR CONTOUR
- 998 PROPOSED MAJOR CONTOUR
- 998 PROPOSED MINOR CONTOUR
- RAMP
- CONCRETE CURB & GUTTER TYPE "CG-1"
- CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
- CONCRETE CURB TYPE "C-1" MODIFIED
- (A) GRADING DETAIL

NOTES:

1. CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
2. ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
3. ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.
4. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISITNG LANDSCAPING AT FENCE AND NEIGHBORING PROPERTY.

(3)

SPOT ELEVATION LEGEND

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.

TC=	TOP OF CURB
FG=	FINISHED GRADE WITHIN GREENSPACE
TS=	TOP OF STRUCTURE
TP=TC=	CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HP=	HIGH POINT
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MATCH EX.=	MATCH EXISTING
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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N

0' 10' 20' 40'
SCALE IN FEET

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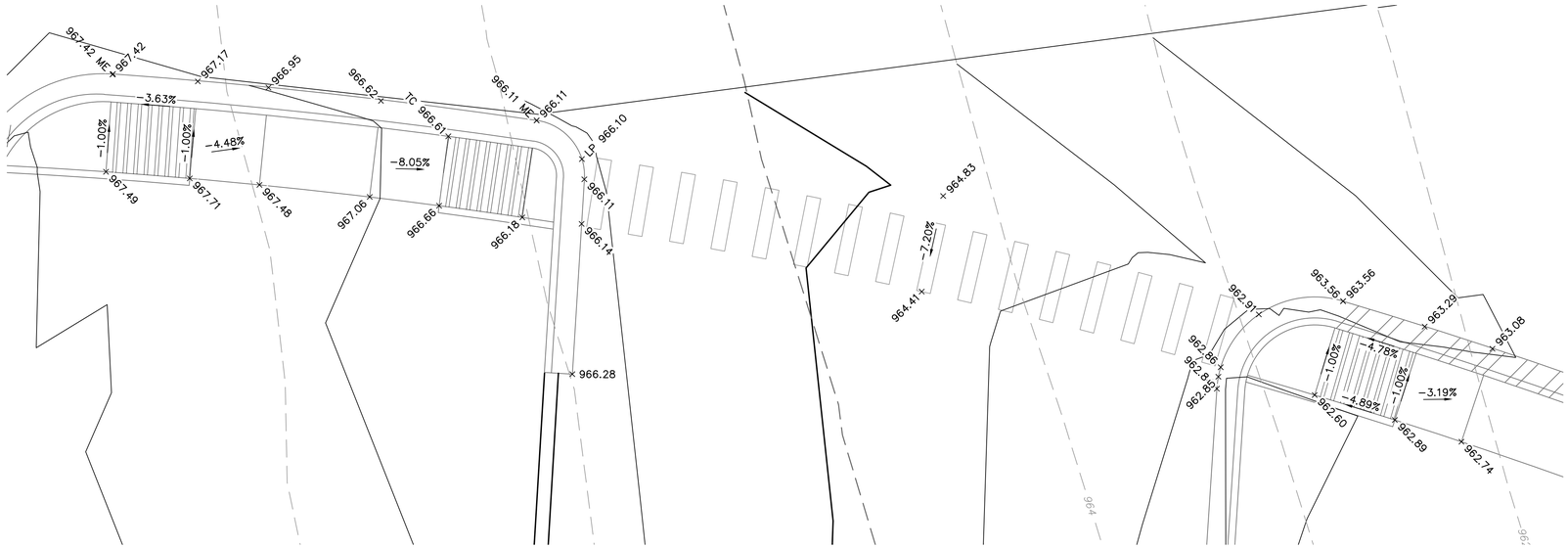
Drawing No.
C3.0
GRADING PLAN



GRADING DETAIL A

SCALE: 1"=5'

LEGEND

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N

0' 2.5' 5' 10'
SCALE IN FEET

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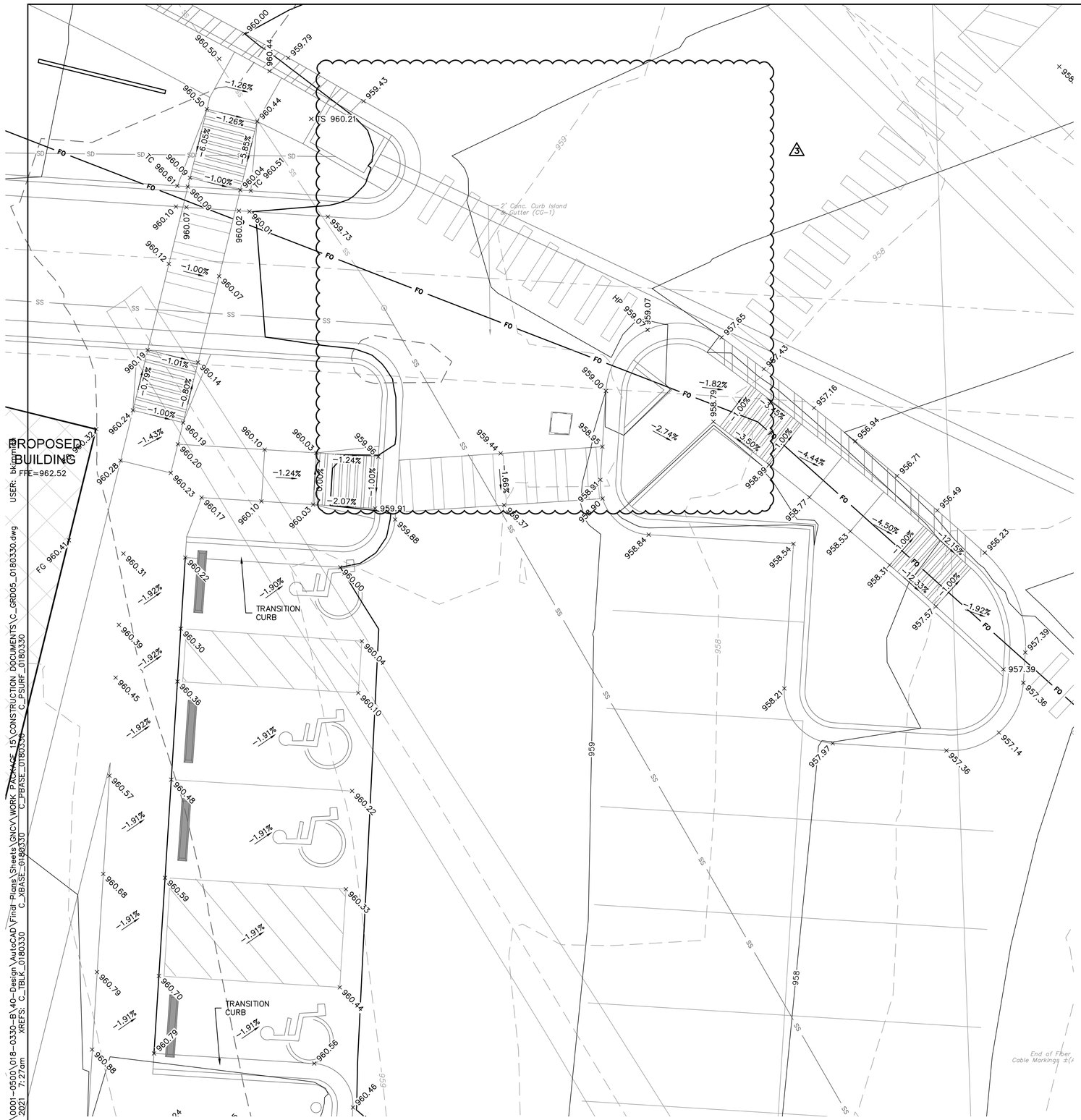

GRADING DETAIL B

SCALE: 1"=5'

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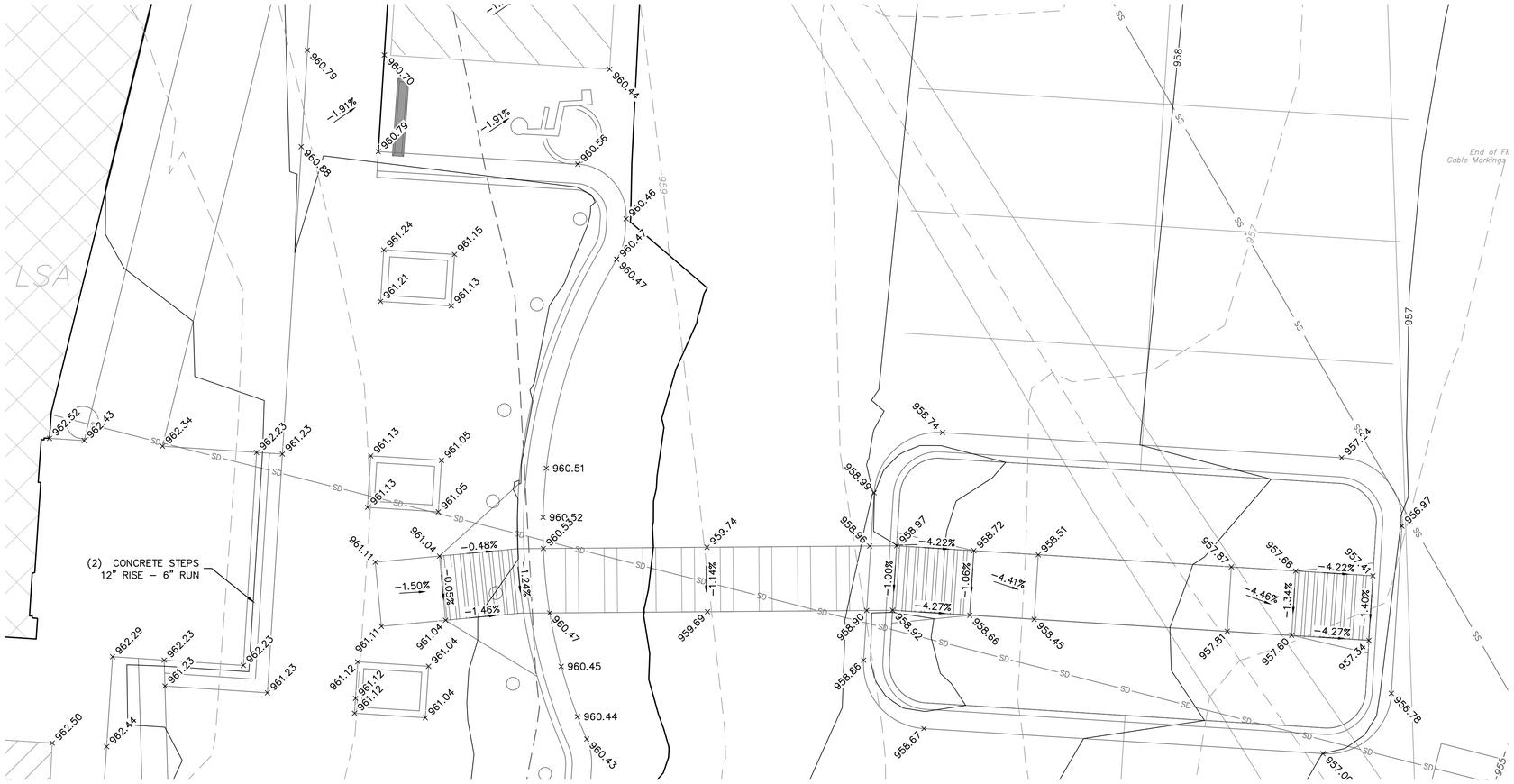

LEGEND

- PROPERTY LINE
- 995 EXISTING MAJOR CONTOUR
- 995 EXISTING MINOR CONTOUR
- 998 PROPOSED MAJOR CONTOUR
- 998 PROPOSED MINOR CONTOUR
- RAMP
- CONCRETE CURB & GUTTER TYPE "CG-1"
- CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
- CONCRETE CURB TYPE "C-1" MODIFIED

NOTES:

1. CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
2. ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
3. ALL ADA ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2.00% IN ANY DIRECTION.

SPOT ELEVATION LEGEND

ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT ELEVATION UNLESS NOTED OTHERWISE. RE: PLAN VIEW, LEGEND AND DETAILS FOR CURB TYPE AND TO CALCULATE TOP OF CURB ELEVATION.

TC=	TOP OF CURB
FG=	FINISHED GRADE WITHIN GREENSPACE
TS=	TOP OF STRUCTURE
TP=TC=	CURB DEPRESSED TO BE FLUSH WITH ADJACENT PAVEMENT
HP=	HIGH POINT
LP=	LOW POINT
MATCH EX.=	MATCH EXISTING
FFE=	FINISH FLOOR ELEVATION AT TOP OF SLAB

GRADING DETAIL C

SCALE: 1"=5'

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

10/21/2021

N

0' 2.5' 5' 10'
SCALE IN FEET

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\C_GRD05_0180330.dwg USER: bkimmich
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SPECIAL NOTICES

Mid-Continent Public Library
CONSTRUCTION DOCUMENTS

LEE'S SUMMIT LIBRARY

150 NW Oldham Parkway
LEE'S SUMMIT, MO 64081
JACKSON COUNTY

PACKAGE 15

Engineer of Record

STATE OF MISSOURI
TERRY M PARSONS
NUMBER PE-2018010505
10/13/2021
PROFESSIONAL ENGINEER

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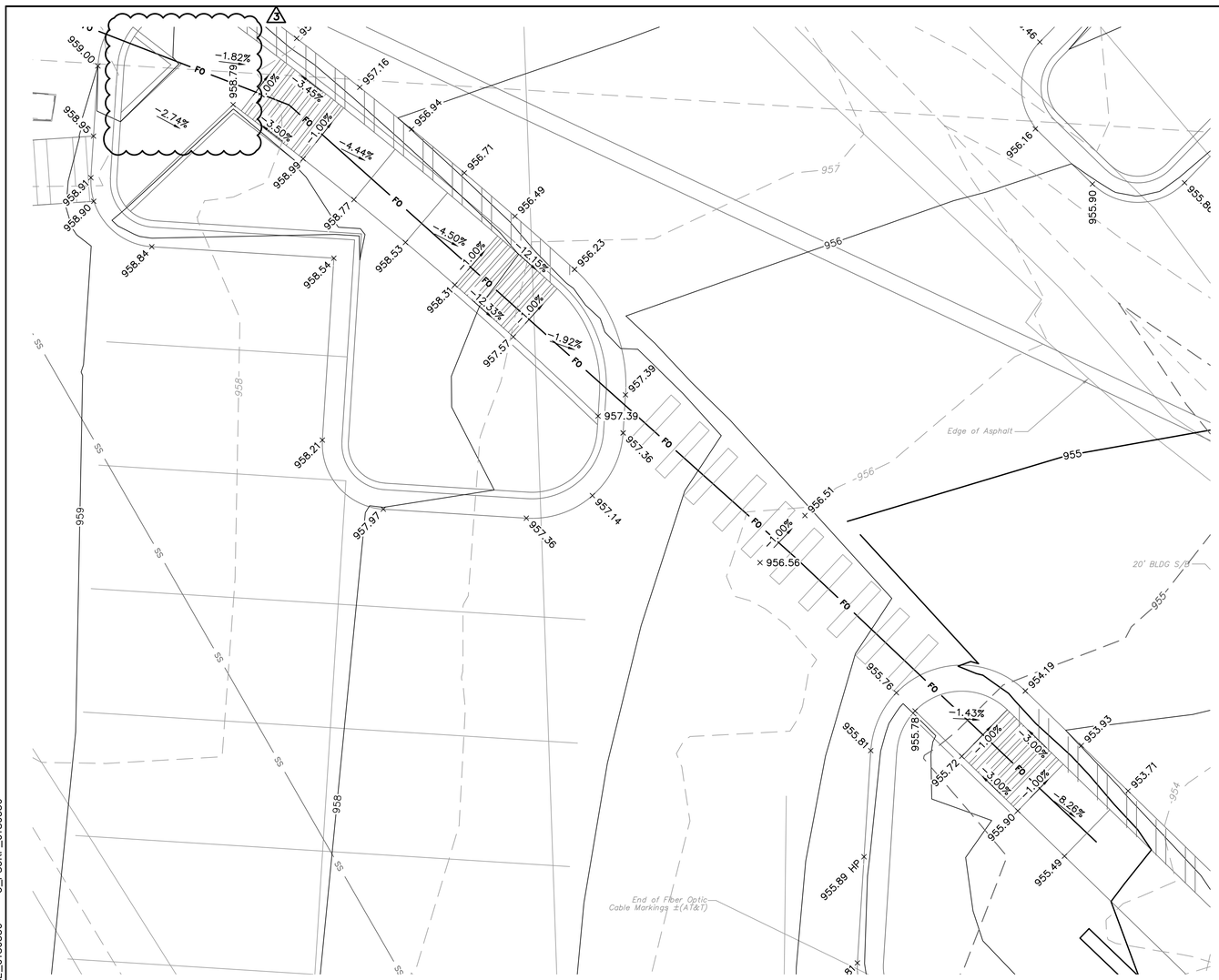
Revision No.	Description	Date
02	ASI01	06.26.21

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

C3.3
GRADING DETAILS



GRADING DETAIL D

SCALE: 1"=5'

LEGEND

- PROPERTY LINE
- 995 EXISTING MAJOR CONTOUR
- 995 EXISTING MINOR CONTOUR
- 998 PROPOSED MAJOR CONTOUR
- 998 PROPOSED MINOR CONTOUR
- RAMP
- CONCRETE CURB & GUTTER TYPE "CG-1"
- CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
- CONCRETE CURB TYPE "C-1" MODIFIED

NOTES:

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MATCH EX.=	MATCH EXISTING
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

10/21/2021

N

0' 2.5' 5' 10'
SCALE IN FEET

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SPECIAL NOTICES

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CONSTRUCTION DOCUMENTS

LEE'S SUMMIT LIBRARY

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LEE'S SUMMIT, MO 64081
JACKSON COUNTY

PACKAGE 15

Engineer of Record

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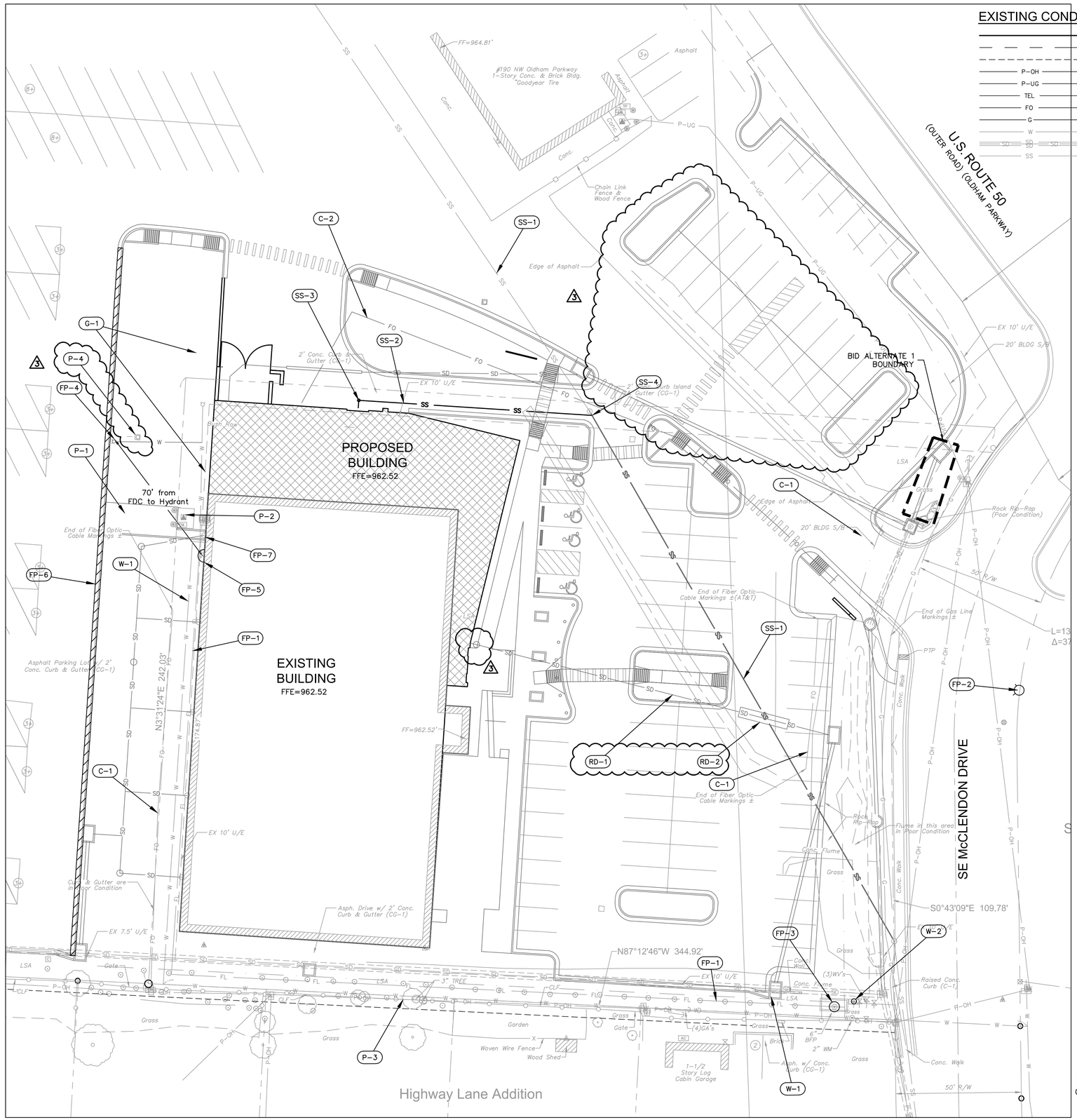
Revision No.	Description	Date
02	ASI01	06.26.21
03	ASI02	08.30.21

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

C3.4
GRADING DETAILS



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
- SD — 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

UTILITY KEYNOTES: (XX)

WATER

W-1 EXISTING 2" SERVICE LINE TO REMAIN

W-2 EXISTING 2" WATER METER TO REMAIN

FIRE PROTECTION

FP-1 EXISTING 6" FIRE SERVICE TO REMAIN

FP-2 EXISTING HYDRANT TO REMAIN

FP-3 BACKFLOW PREVENTOR AND VAULT TO REMAIN

FP-4 RELOCATE EXISTING HYDRANT

FP-5 EXISTING FDC TO REMAIN

FP-6 PAINT PROPOSED CURB RED AT BACK OF BUILDING FOR FIRE LANE PER CITY STANDARDS

FP-7 EXTEND EXISTING SPRINKLER DRAIN TO OUTFLOW ONTO PROPOSED ASPHALT FLUME

SANITARY SEWER

SS-1 EXISTING 8" PUBLIC SANITARY MAIN

SS-2 INSTALL 4" PVC SERVICE LINE

SS-3 INSTALL STANDARD CLEANOUT

SS-4 CONNECT TO EXISTING WYE ON THE EXISTING 8" MAIN (APPROX. FL=962.68)

ROOF DRAIN AND LANDSCAPE DRAINS

RD-1 CONNECT TO PROPOSED CANOPY ROOF DRAIN AND INSTALL 147 LF 4" PVC PIPE WITH STD CLEANOUT AT BLDG AND CONNECT TO PROP. INLET (IE = 951.82)

RD-2 INSTALL 20 LF OF CONCRETE ENCASEMENT ON STORM LINE PER CITY STANDARDS

RE: STORM SEWER PLAN & PROFILE – SHEETS C5.0 THRU C5.4 FOR REMAINDER OF ROOF DRAINS

POWER

P-1 PRIMARY SERVICE

P-2 PROPOSED TRANSFORMER TO REMAIN

P-3 OVERHEAD POWER TO REMAIN

P-4 EXISTING LIGHT POLE TO REMAIN

GAS

G-1 EXISTING GAS METER TO BE REMOVED AND RESET DURING ADDTION CONSTRUCTION. RELOCATE GAS LINE (COORDINATE FINAL LOCATION WITH PROVIDER).

COMMUNICATION

C-1 EXISTING FIBER LINE TO REMAIN

C-2 INSTALL 3 – 4" PVC CONDUITS PER PROVIDER STANDARDS. COORDINATE FINAL LOCATION WITH PROVIDER

BID ALTERNATE

1 PROPOSED STORM IMPROVEMENTS WITHIN THIS BOUNDARY SHALL BE INCLUDED IN BID ALTERNATE 1.

CONTRACTOR NOTE (W-2):

CONTRACTOR TO VERIFY DEPTH OF EXISTING 2" WATERLINE AT METER. 4 FT OF MINIMUM COVER IS DESIRED. IF THE DEPTH OF THE SERVICE LINE IS LESS THAN DESIRED THE CONTRACTOR SHALL NOTIFY THE ENGINEER. GRADE ADJUSTMENTS MAY BE REQUIRED TO THE METER PIT AND BFP VAULT. SEGMENTAL RETAINING WALL MAY ALSO BE REQUIRED TO PREVENT DISTURBANCE OF NEIGHBORING PROPERTY. THE CONTRACTOR SHALL CARRY AN ALLOWANCE FOR AN INCREASE OF 1' IN HEIGHT TO THE PIT AND VAULT AND 30 SF OF WALL FACE.

N

0' 10' 20' 40'
SCALE IN FEET

RELEASE FOR CONSTRUCTION
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LEE'S SUMMIT, MISSOURI
10/21/2021

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SPECIAL NOTICES

Mid-Continent Public Library
CONSTRUCTION DOCUMENTS

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LEE'S SUMMIT, MO 64081
JACKSON COUNTY

PACKAGE 15

Engineer of Record

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TERRY M. PARSONS
NUMBER PE-2018010505
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Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.
C4.0
UTILITY PLAN

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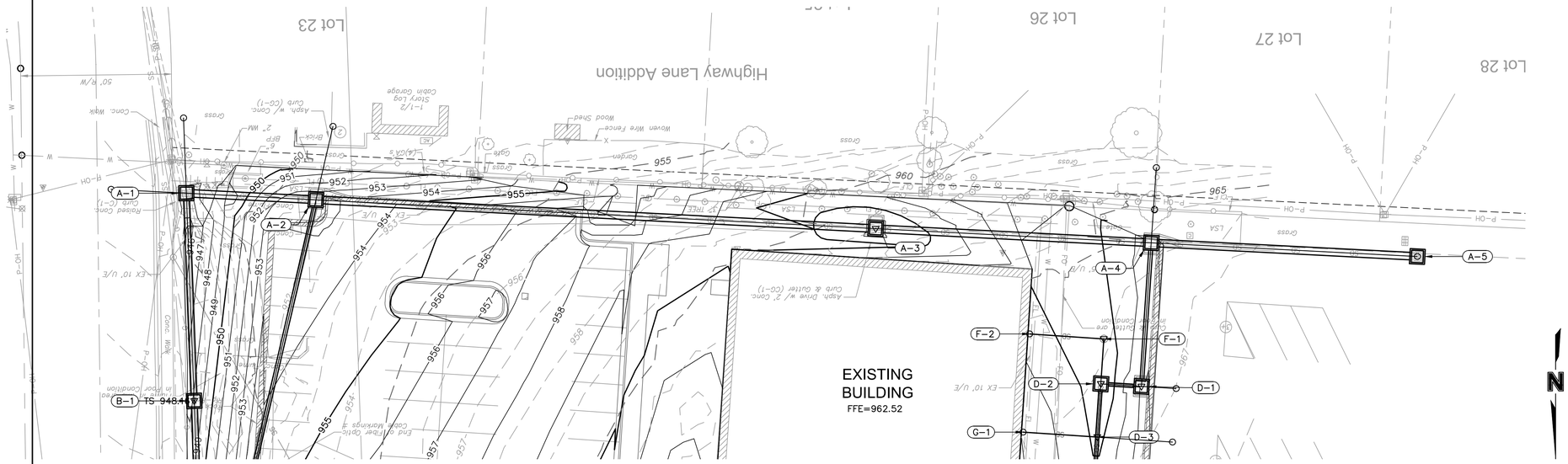
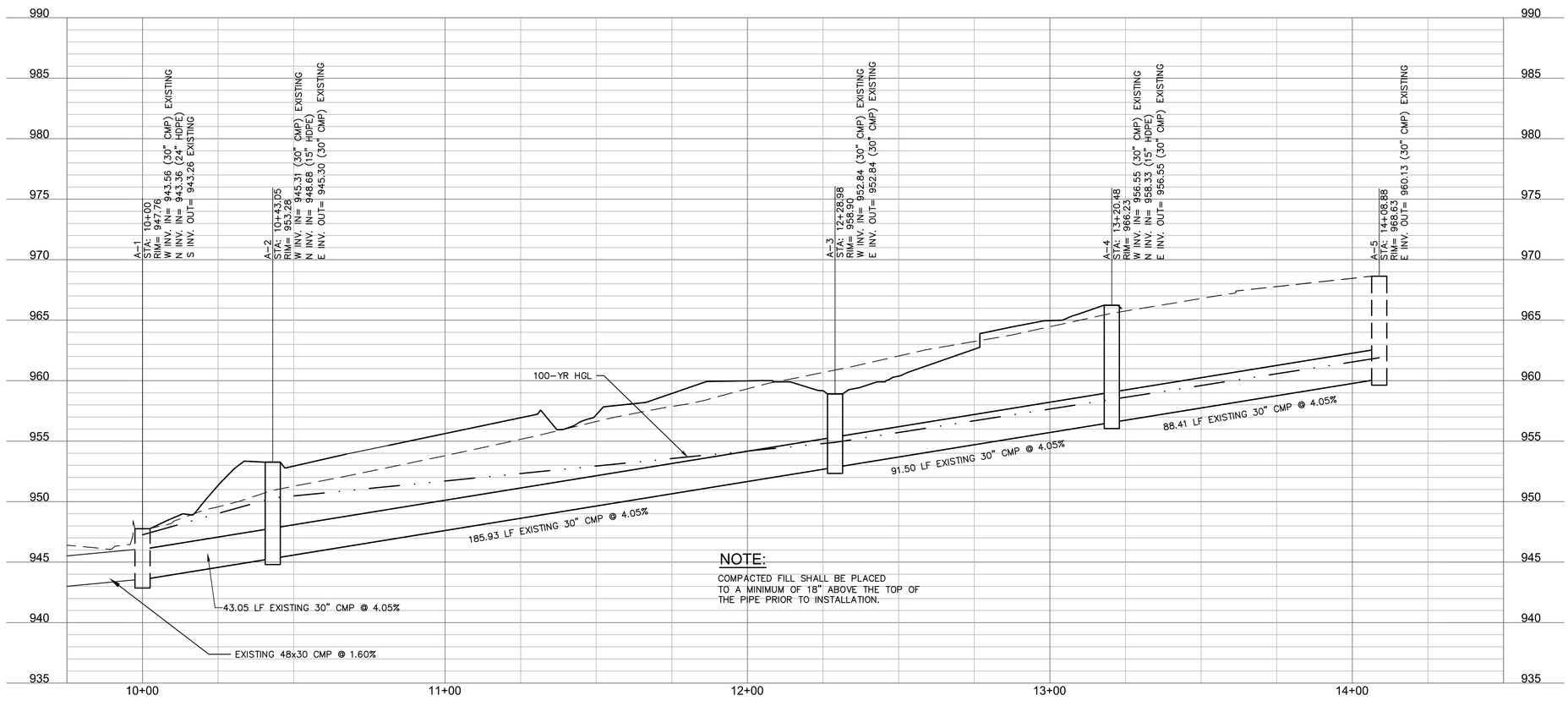


STRUCTURES	
ID	DESCRIPTION
A–1	EXISTING 5'X3' AREA INLET RECONSTRUCT TO AREA INLET WITH THROAT OPENING (N.) 10+00, 0.00' STORM LINE A RIM= 947.76 INV IN = 943.56 (30" CMP) EXISTING INV IN = 943.36 (24" HDPE) EXISTING N: 1000826.723; E: 2817077.444
A–2	INSTALL STD. 5'X4' NON–SETBACK CURB INLET 10+43.05, –0.02' LT STORM LINE A RIM= 953.28 INV IN = 945.31 (30" CMP) INV IN = 948.68 (15" HDPE) INV OUT = 945.30 (30" CMP) N: 1000828.919; E: 2817034.454
A–3	INSTALL STD. 4'X4' JUNCTION BOX ON EXISTING 30" HDPE 12+28.98, 0.00' STORM LINE A RIM= 958.90 INV IN = 952.84 (30" CMP) INV OUT = 952.84 (30" CMP) N: 1000838.496; E: 2816848.767
A–4	INSTALL STD. 6'X4' NON–SETBACK CURB INLET ON EXISTING 30" HDPE 13+20.48, 0.00' STORM LINE A RIM= 966.23 INV IN = 956.55 (30" CMP) INV IN = 958.33 (15" HDPE) INV OUT = 956.55 (30" CMP) N: 1000843.200; E: 2816757.391
A–5	EXISTING 5'X3' AREA INLET 14+08.88, 0.00' STORM LINE A RIM= 968.63 INV OUT = 960.13 (30" CMP) N: 1000847.745; E: 2816669.102

STORM LINE A (9+75 - 14+50)



NOTE:

COMPACTED FILL SHALL BE PLACED TO A MINIMUM OF 18" ABOVE THE TOP OF THE PIPE PRIOR TO INSTALLATION.

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

10/21/2021

0' 10' 20' 40'
SCALE IN FEET

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SPECIAL NOTICES

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CONSTRUCTION DOCUMENTS
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JACKSON COUNTY

PACKAGE 15

Engineer of Record

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TERRY M PARSONS
NUMBER PE-2018010505
10/21/2021
PROFESSIONAL ENGINEER

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Revision No.	Description	Date
02	ASI01	06.26.21
03	ASI02	08.30.21

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.
C5.0
STORM SEWER PLAN & PROFILE

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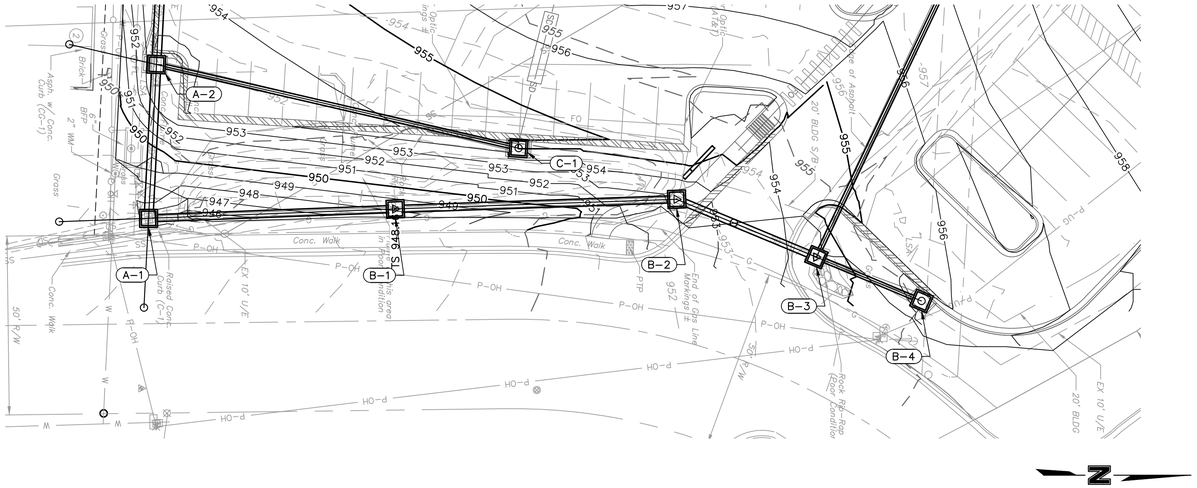

STRUCTURES	
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B–1	INSTALL STD. 4'X4' GRATE INLET 10+69.01, 0.00' STORM LINE B RIM= 948.16 INV IN = 944.70 (24" HDPE) INV OUT = 944.05 (24" HDPE) N: 1000895.688; E: 2817074.834
B–2	INSTALL STD. 4'X4' JUNCTION BOX 11+47.69, 0.00' STORM LINE B RIM= 953.22 INV IN = 948.61 (24" CMP) INV OUT = 948.31 (24" HDPE) N: 1000974.321; E: 2817072.115
B–3	INSTALL STD. 4'X4' GRATE INLET 11+89.96, 0.00' STORM LINE B RIM= 954.27 INV IN = 950.47 (15" HDPE) INV IN = 950.27 (15" HDPE) INV OUT = 949.97 (24" CMP) N: 1001013.366; E: 2817088.293
B–4	INSTALL STD. 6'X4' NON–SETBACK CURB INLET 12+21.79, 0.00' STORM LINE B RIM= 956.25 INV OUT = 951.15 (15" HDPE) N: 1001042.746; E: 2817100.544

STRUCTURES	
ID	DESCRIPTION
A–2	INSTALL STD. 5'X4' NON–SETBACK CURB INLET 10+43.05, –0.02' LT STORM LINE A RIM= 953.28 INV IN = 945.31 (30" CMP) INV IN = 948.68 (15" HDPE) INV OUT = 945.30 (30" CMP) N: 1000828.919; E: 2817034.454
C–1	INSTALL STD. 6'X4' NON–SETBACK CURB INLET 11+03.86, 0.00' STORM LINE C RIM= 955.05 INV OUT = 950.50 (15" HDPE) N: 1000930.117; E: 2817057.827

RELEASE FOR CONSTRUCTION
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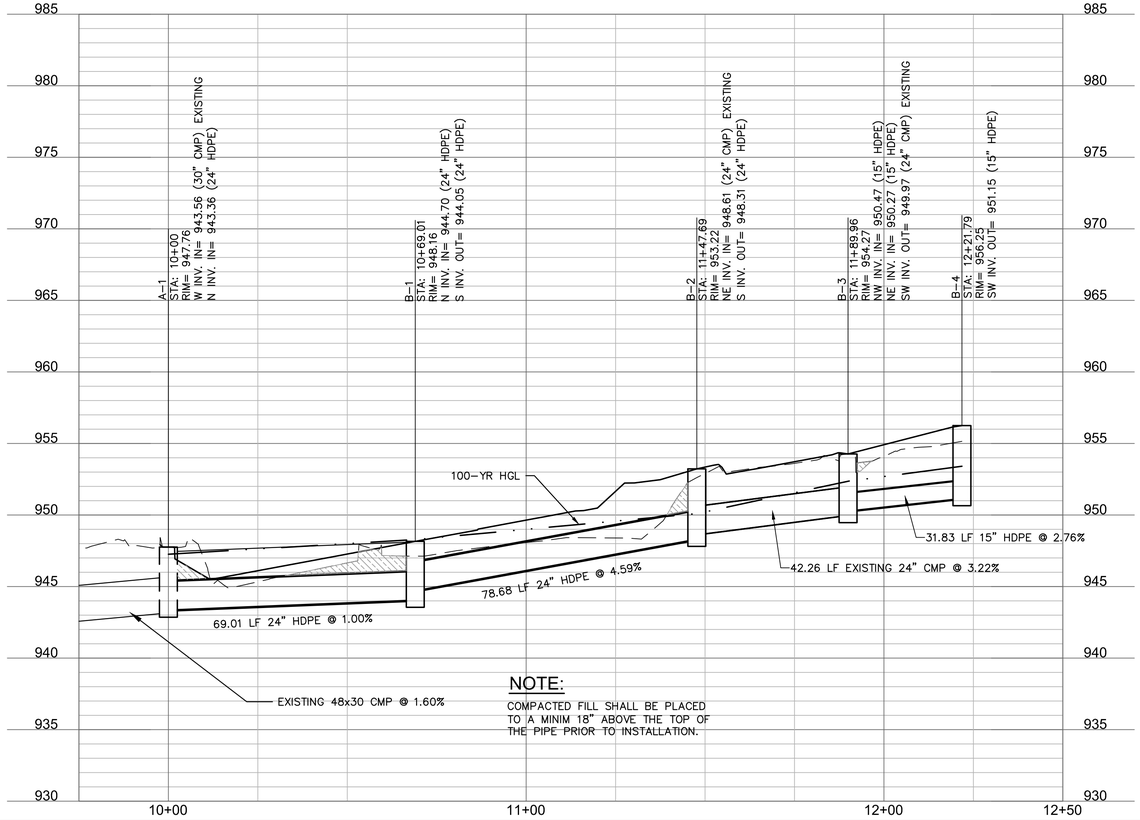
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

10/21/2021

10'
5'
2.5'
0'

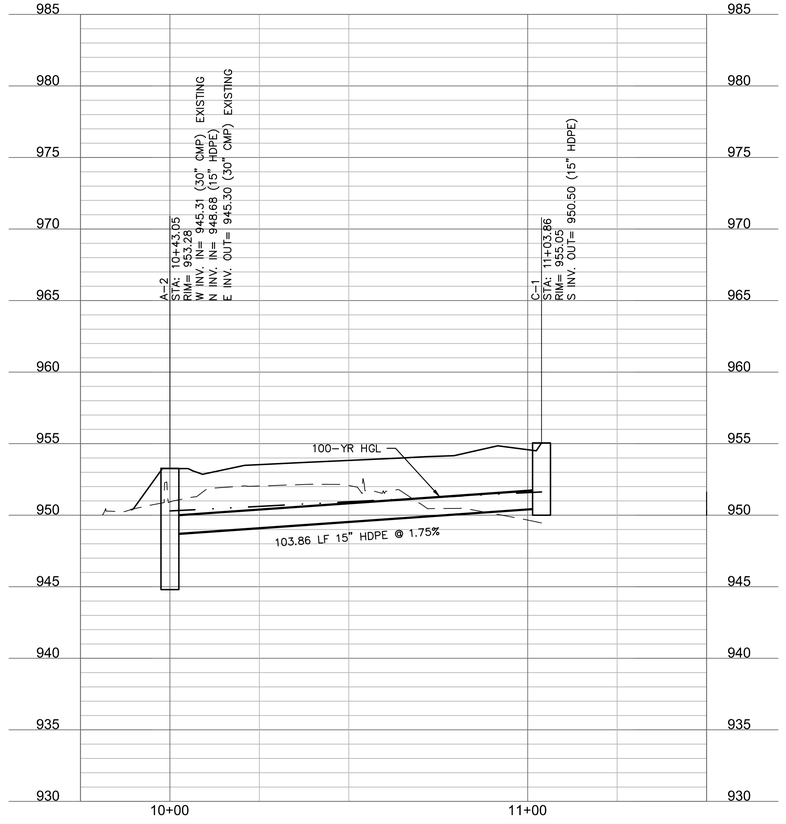
0' 10' 20' 40'
SCALE IN FEET

STORM LINE B (9+75 - 12+50)



NOTE:
COMPACTED FILL SHALL BE PLACED TO A MINIM 18" ABOVE THE TOP OF THE PIPE PRIOR TO INSTALLATION.

STORM LINE C (9+75 - 11+50)



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Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

C5.1
STORM SEWER PLAN & PROFILE

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\C-STM01_0180330.dwg
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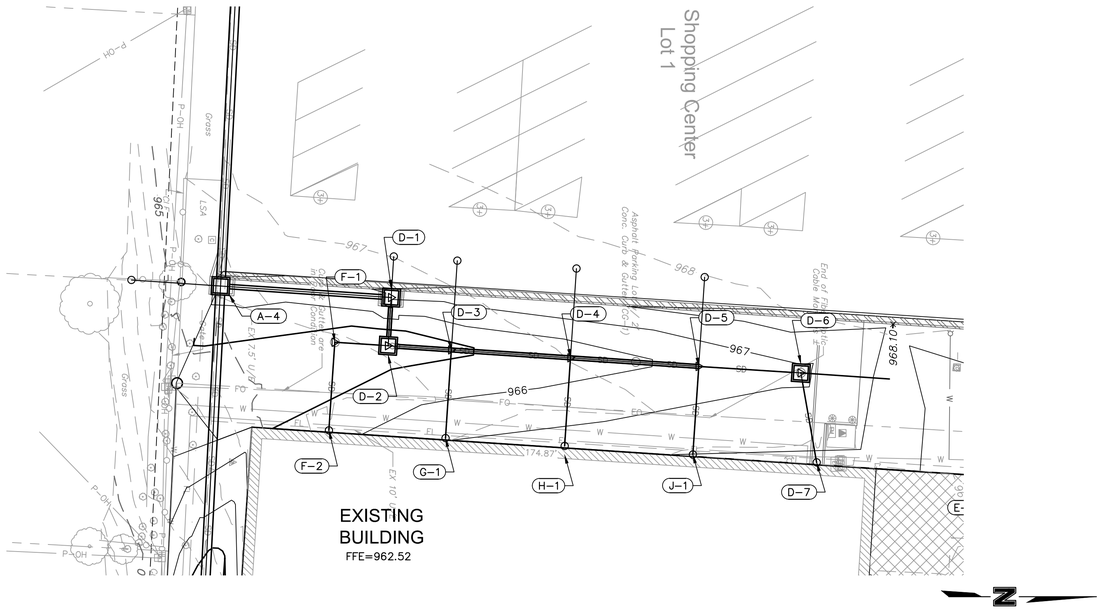
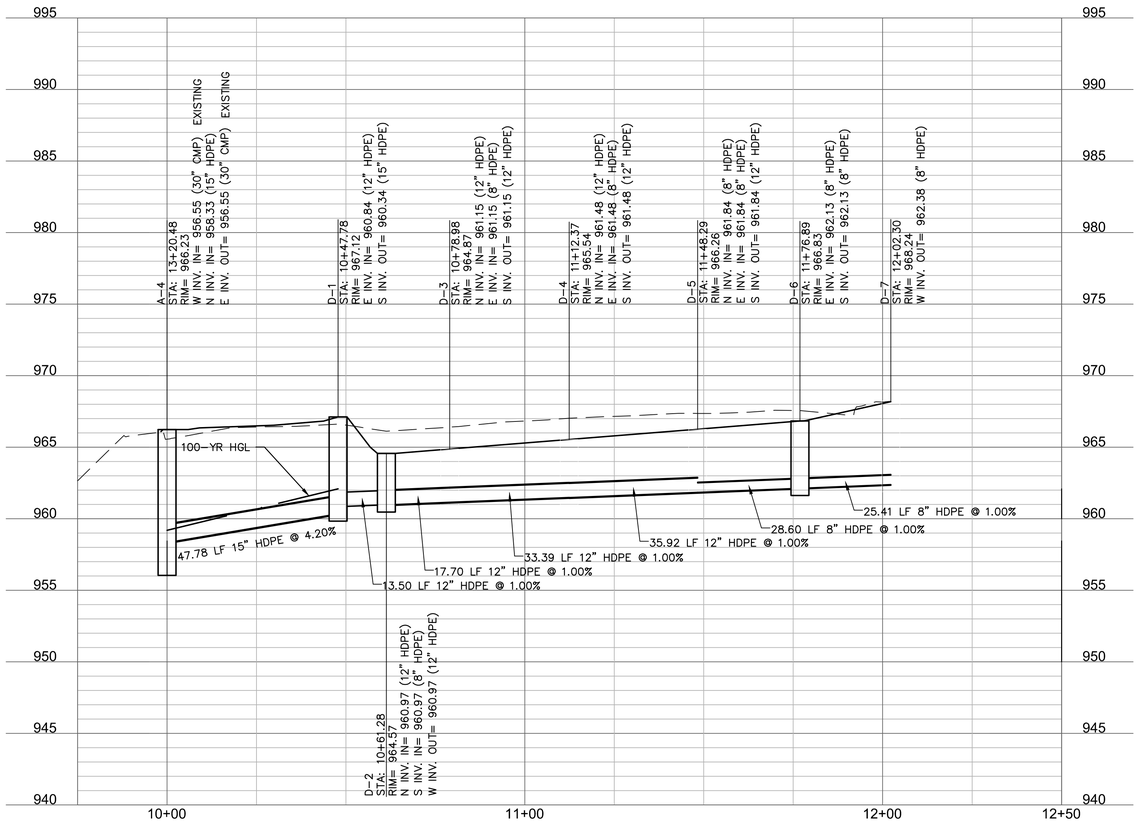


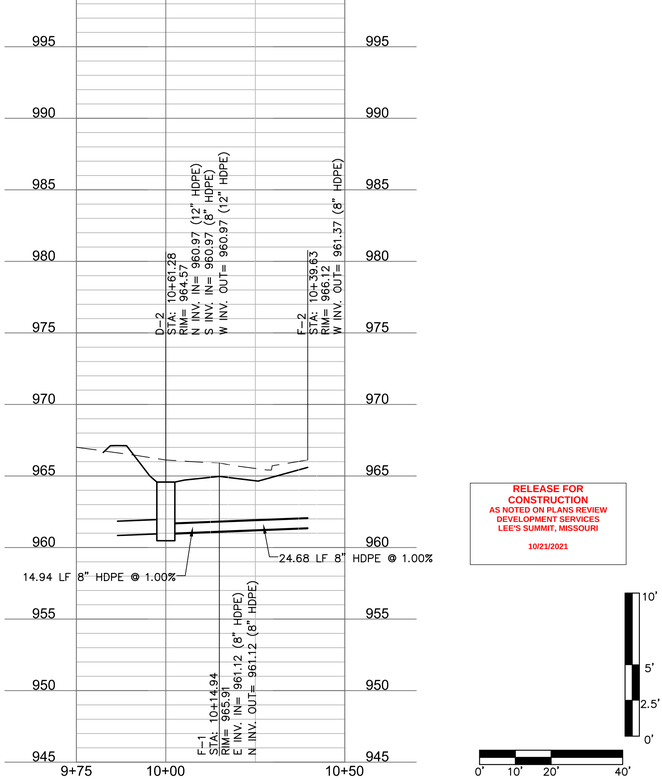
STRUCTURES	
ID	DESCRIPTION
A-4	INSTALL STD. 6'X4' NON-SETBACK CURB INLET ON EXISTING 30" HDPE 13+20.48, 0.00' STORM LINE A RIM= 966.23 INV IN = 956.55 (30" CMP) INV IN = 958.33 (15" HDPE) INV OUT = 956.55 (30" CMP) N: 1000843.200; E: 2816757.391
D-1	INSTALL STD. 6'X4' NON-SETBACK CURB I 10+47.78, 0.00' STORM LINE D RIM= 967.12 INV IN = 960.84 (12" HDPE) INV OUT = 960.34 (15" HDPE) N: 1000890.876; E: 2816760.610
D-2	INSTALL 15" DIA. NYLOPLAST BASIN WITH SOLID LID 10+61.28, 0.00' STORM LINE D RIM= 964.57 INV IN = 960.97 (12" HDPE) INV IN = 960.97 (8" HDPE) INV OUT = 960.97 (12" HDPE) N: 1000890.024; E: 2816774.083
D-3	INSTALL 12" X 12" X 8" HDPE TEE 10+78.98, 0.00' STORM LINE D RIM= 964.87 INV IN = 961.15 (12" HDPE) INV IN = 961.15 (8" HDPE) INV OUT = 961.15 (12" HDPE) N: 1000907.681; E: 2816775.260
D-4	INSTALL 12" X 12" X 8" HDPE TEE 11+12.37, 0.00' STORM LINE D RIM= 965.54 INV IN = 961.48 (12" HDPE) INV IN = 961.48 (8" HDPE) INV OUT = 961.48 (12" HDPE) N: 1000941.001; E: 2816777.453
D-5	INSTALL 12"X8"X8" HDPE TEE 11+48.29, 0.00' STORM LINE D RIM= 966.26 INV IN = 961.84 (8" HDPE) INV IN = 961.84 (8" HDPE) INV OUT = 961.84 (12" HDPE) N: 1000976.838; E: 2816779.868
D-6	INSTALL 15" DIA. NYLOPLAST BASIN WITH DOMED LID 11+76.89, 0.00' STORM LINE D RIM= 966.83 INV IN = 962.13 (8" HDPE) INV OUT = 962.13 (8" HDPE) N: 1001005.378; E: 2816781.680
D-7	CONNECT TO BUILDING RE: MEP 12+02.30, 0.00' STORM LINE D RIM= 968.24 INV OUT = 962.38 (8" HDPE) N: 1001009.792; E: 2816806.706

STRUCTURES	
ID	DESCRIPTION
D-2	INSTALL 15" DIA. NYLOPLAST BASIN WITH SOLID LID 10+61.28, 0.00' STORM LINE D RIM= 964.57 INV IN = 960.97 (12" HDPE) INV IN = 960.97 (8" HDPE) INV OUT = 960.97 (12" HDPE) N: 1000890.024; E: 2816774.083
F-1	INSTALL 8" HDPE 90 DEGREE BEND 10+14.94, 0.00' STORM LINE F RIM= 965.91 INV IN = 961.12 (8" HDPE) INV OUT = 961.12 (8" HDPE) N: 1000875.112; E: 2816773.101
F-2	CONNECT TO ROOF DRAIN. RE: MEP 10+39.63, 0.00' STORM LINE F RIM= 966.12 INV OUT = 961.37 (8" HDPE) N: 1000873.472; E: 2816797.728

STORM LINE D (9+75 - 12+50)



STORM LINE F (9+75 - 10+50)



RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

10/21/2021

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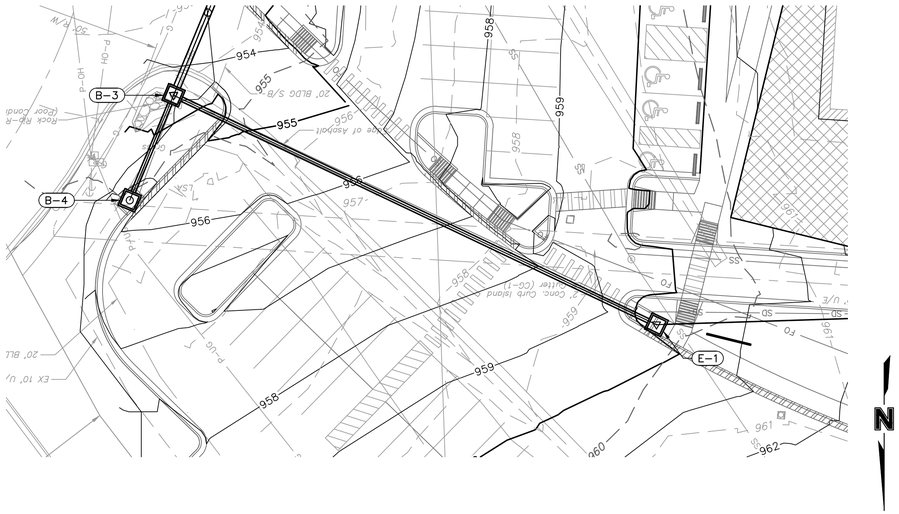
Revision No.	Description	Date
02	ASI01	06.26.21

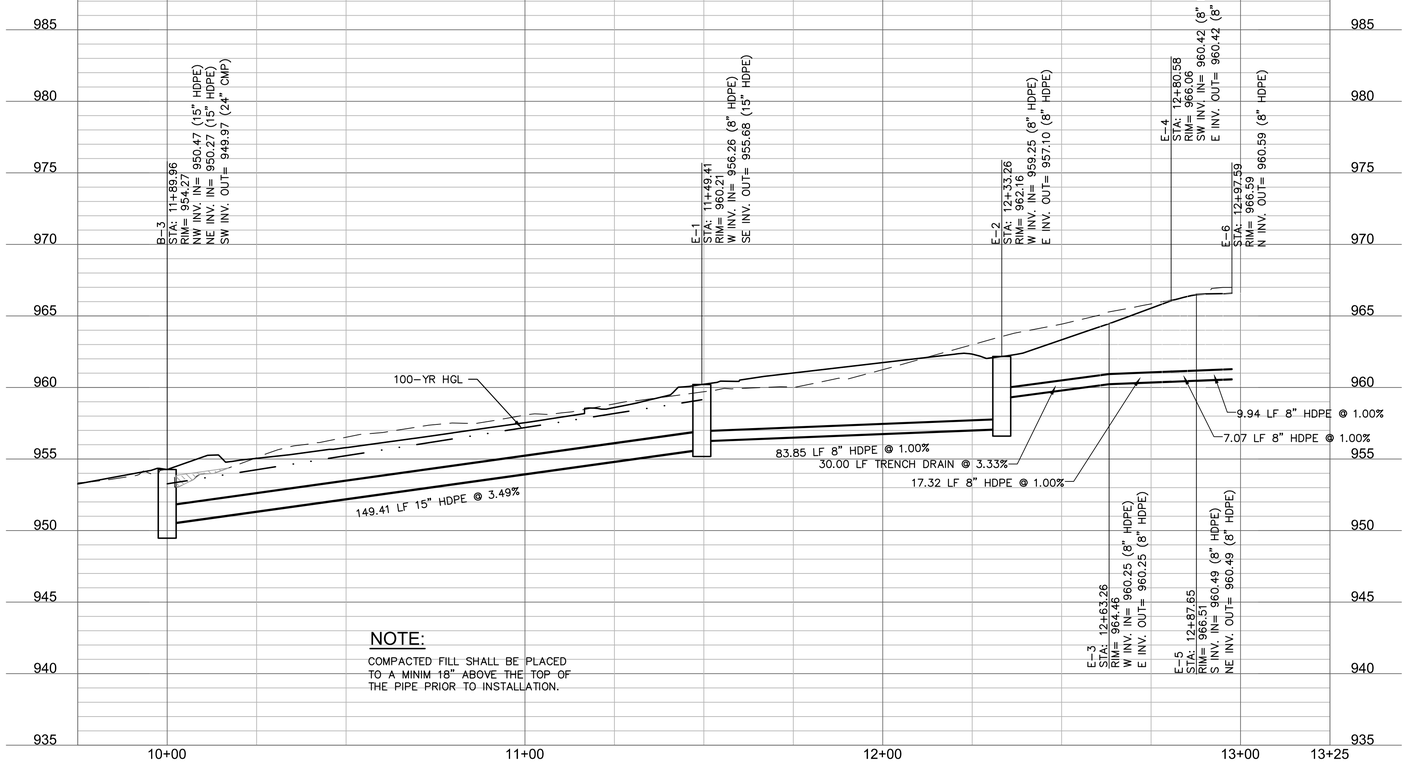
Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

C5.2
STORM SEWER PLAN & PROFILE



STORM LINE E (9+75 - 13+25)



NOTE:
COMPACTED FILL SHALL BE PLACED TO A MINIM 18" ABOVE THE TOP OF THE PIPE PRIOR TO INSTALLATION.

STRUCTURES	
ID	DESCRIPTION
B-3	INSTALL STD. 4'X4' GRATE INLET 11+89.96, 0.00' STORM LINE B RIM= 954.27 INV IN = 950.47 (15" HDPE) INV IN = 950.27 (15" HDPE) INV OUT = 949.97 (24" CMP) N: 1001013.366; E: 2817088.293
E-1	INSTALL STD. 6'X4' NON-SETBACK CURB INLET 11+49.41, 0.00' STORM LINE E RIM= 960.21 INV IN = 956.26 (8" HDPE) INV OUT = 955.68 (15" HDPE) N: 1001077.512; E: 2816953.349
E-2	INSTALL ACO FG200 FLOWDRAIN TRENCH DRAIN WITH F660 CLASS E IRON SLOTTED GRATE 12+33.26, 0.00' STORM LINE E RIM= 962.16 INV IN = 959.25 (8" HDPE) INV OUT = 957.10 (8" HDPE) N: 1001074.822; E: 2816869.545
E-3	END TRENCH DRAIN 12+63.26, 0.00' STORM LINE E RIM= 964.46 INV IN = 960.25 (8" HDPE) INV OUT = 960.25 (8" HDPE) N: 1001076.726; E: 2816839.605
E-4	INSTALL 45 DEGREE BEND 12+80.58, 0.00' STORM LINE E RIM= 966.06 INV IN = 960.42 (8" HDPE) INV OUT = 960.42 (8" HDPE) N: 1001077.825; E: 2816822.323
E-5	INSTALL 45 DEGREE BEND 12+87.65, 0.00' STORM LINE E RIM= 966.51 INV IN = 960.49 (8" HDPE) INV OUT = 960.49 (8" HDPE) N: 1001073.153; E: 2816817.015
E-6	CONNECT TO ROOF DRAIN RE: MEP 12+97.59, 0.00' STORM LINE E RIM= 966.59 INV OUT = 960.59 (8" HDPE) N: 1001063.232; E: 2816816.384

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/21/2021

0' 10' 20' 40'
SCALE IN FEET
10'
5'
2.5'
0'

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Revision No.	Description	Date
02	ASI01	06.26.21

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.
C5.3
STORM SEWER PLAN & PROFILE

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\C-STM01_0180330.dwg USER: bkimmich
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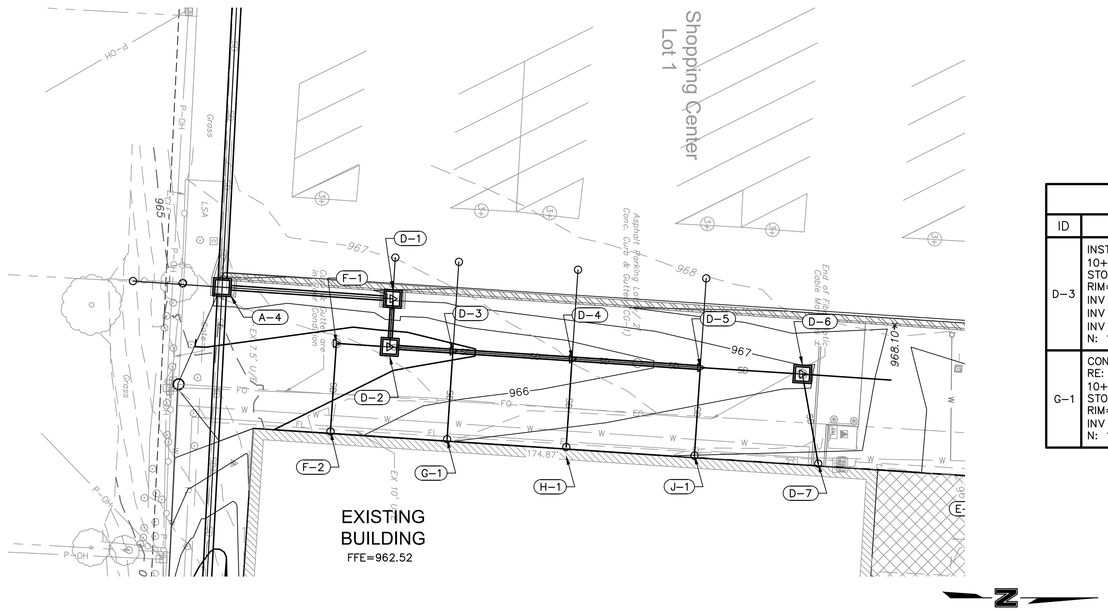
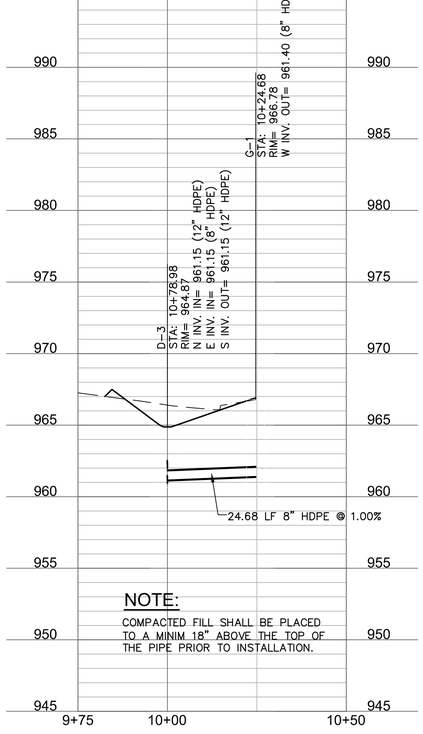


STRUCTURES	
ID	DESCRIPTION
D-3	INSTALL 12" X 12" X 8" HDPE TEE 10+78.98, 0.00' STORM LINE D RIM= 964.87 INV IN = 961.15 (12" HDPE) INV IN = 961.15 (8" HDPE) INV OUT = 961.15 (12" HDPE) N: 1000907.681; E: 2816775.260
G-1	CONNECT TO ROOF DRAIN. RE: MEP 10+24.68, 0.00' STORM LINE G RIM= 966.78 INV OUT = 961.40 (8" HDPE) N: 1000906.041; E: 2816799.887

STRUCTURES	
ID	DESCRIPTION
D-4	INSTALL 12" X 12" X 8" HDPE TEE 11+12.37, 0.00' STORM LINE D RIM= 965.54 INV IN = 961.48 (12" HDPE) INV IN = 961.48 (8" HDPE) INV OUT = 961.48 (12" HDPE) N: 1000941.001; E: 2816777.453
H-1	CONNECT TO ROOF DRAIN. RE: MEP 10+24.68, 0.00' STORM LINE H RIM= 967.28 INV OUT = 961.73 (8" HDPE) N: 1000939.361; E: 2816802.080

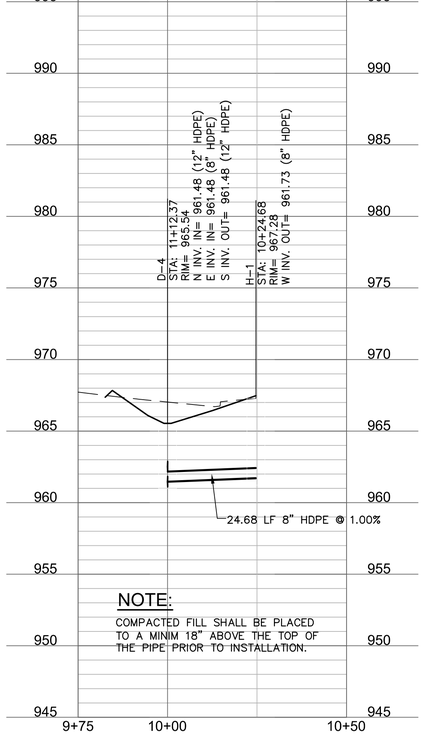
STRUCTURES	
ID	DESCRIPTION
D-5	INSTALL 12"X8"X8" HDPE TEE 11+48.29, 0.00' STORM LINE D RIM= 966.26 INV IN = 961.84 (8" HDPE) INV IN = 961.84 (8" HDPE) INV OUT = 961.84 (12" HDPE) N: 1000976.838; E: 2816779.868
J-1	CONNECT TO ROOF DRAIN. RE: MEP 10+24.68, 0.00' STORM LINE J RIM= 967.86 INV OUT = 962.09 (8" HDPE) N: 1000975.198; E: 2816804.495

STORM LINE G (9+75 - 10+50)



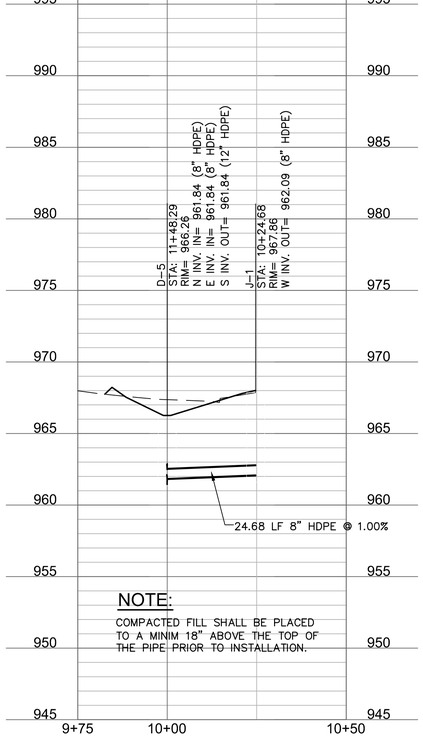
NOTE:
COMPACTED FILL SHALL BE PLACED TO A MINIM 18" ABOVE THE TOP OF THE PIPE PRIOR TO INSTALLATION.

STORM LINE H (9+75 - 10+50)



NOTE:
COMPACTED FILL SHALL BE PLACED TO A MINIM 18" ABOVE THE TOP OF THE PIPE PRIOR TO INSTALLATION.

STORM LINE J (9+75 - 10+50)



NOTE:
COMPACTED FILL SHALL BE PLACED TO A MINIM 18" ABOVE THE TOP OF THE PIPE PRIOR TO INSTALLATION.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/21/2021

0' 10' 20' 40'
SCALE IN FEET
10'
5'
2.5'
0'

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\C-STM01_0180330.dwg USER: bkimmich
DATE: Oct 14, 2021 7:30am XREFS: C_TBLK_0180330 C_PBASE_0180330 C_XBASE_0180330 C_PSURF_0180330 C_PSTM_0180330

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TERRY M PARSONS
NUMBER PE-2018010505
PROFESSIONAL ENGINEER
10/13/2021

Terry M Parsons, Engineer MO PE-2018010505

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Revision No.	Description	Date
02	ASI01	06.26.21

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.
C5.4
STORM SEWER PLAN & PROFILE

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
- SD — STORM SEWER LINE
- SS — SANITARY SEWER LINE

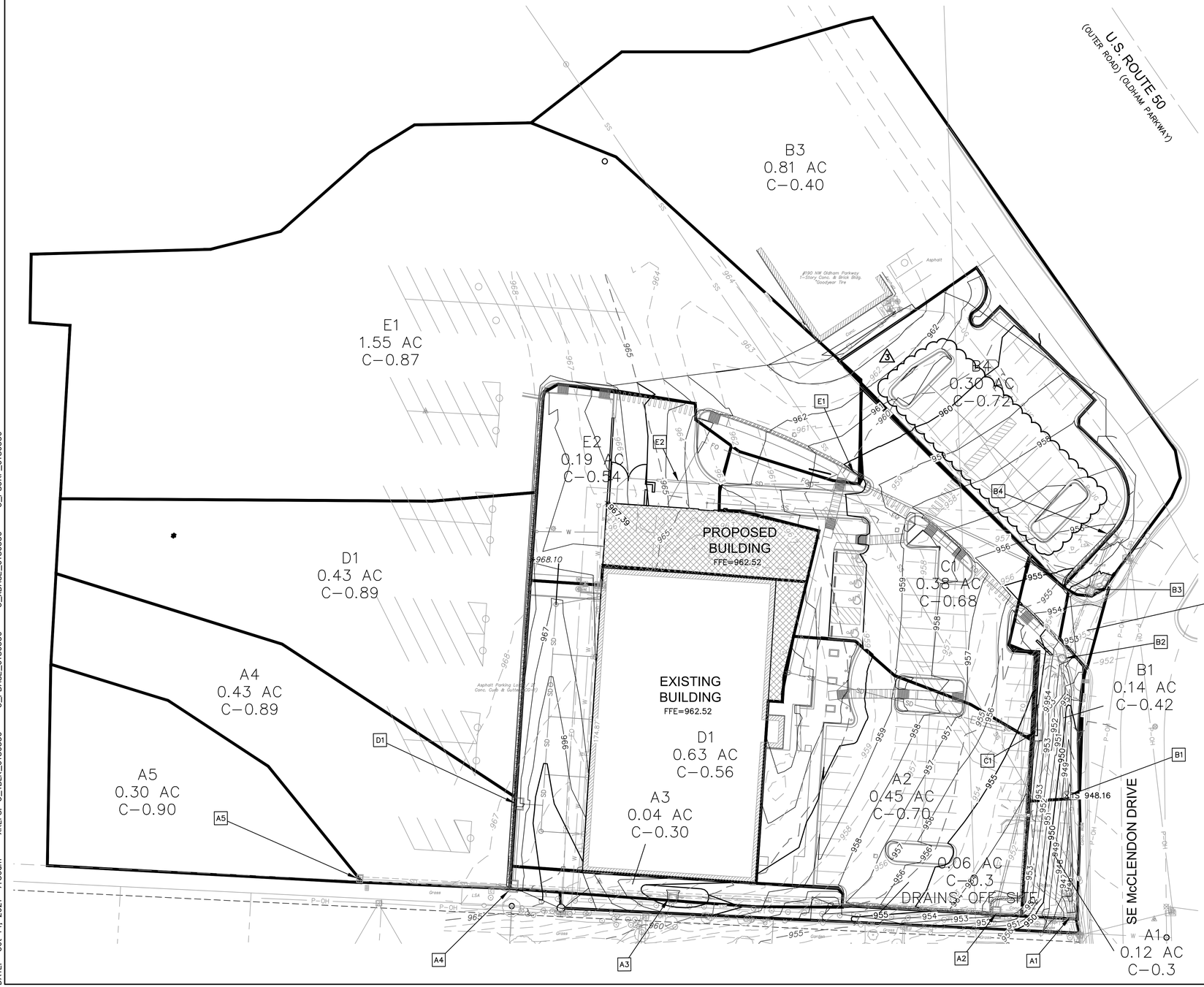
PROPOSED CONDITIONS LEGEND

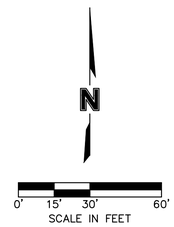
- E — PROPOSED UNDERGROUND ELECTRIC
- FO — PROPOSED FIBER OPTIC
- W — PROPOSED WATER LINE
- FP — PROPOSED FIRE PROTECTION LINE
- SD — PROPOSED STORM SEWER LINE
- T — PROPOSED TURF DRAIN LINE
- SS — PROPOSED SANITARY SEWER SERVICE
- PROPOSED AGGREGATE PATH

NOTE:

GENERAL STRUCTURE DESCRIPTIONS AND CALCULATIONS ARE PROVIDED ON SHEET C5.1. PIPE & STRUCTURES SIZES AND DIMENSIONS ARE PROVIDED ON THE TABLE.

DRAINAGE AREAS OUTSIDE OF THE SURVEY AREA WERE DEFINED BY GOOGLE EARTH SURFACE





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10/21/2021

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\C_DRN01_0180330.dwg USER: bkimmich
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Revision No.	Description	Date
02	ASI01	06.26.21
03	ASI02	08.30.21

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

C6.0

DRAINAGE PLAN

STORM SEWER PIPE AND STRUCTURE TABLE

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

DESIGN CONDITIONS: 10 YEAR STORM EVENT

STRUCTURES				RUNOFF CALCULATIONS							PIPE DESIGN											
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	Comments
A5		0.30		0.90	0.90	5.0	-	7.35	1.98	EXISTING STRUCTURE									968.63				EXISTING STRUCTURE TO REMIAN
	A4		0.73	0.75	0.75	5.0	-	7.35	4.02	EXISTING 30" CMP	88.00	4.05	30	44.83	4.91	9.13	8.71	0.68		960.13	956.55	958.30	
A4		0.43		0.89	0.89	5.0	-	7.35	2.81	6X4 CURB INLET OF EX. PIPE									967.36				CONSTRU CT BOX OVER EXISTING PIPE
	A3		1.16	0.78	0.78	5.0	-	7.35	6.65	EXISTING 30" CMP	92.00	4.05	30	44.83	4.91	9.13	10.10	0.70		956.55	952.84	954.64	
A3		0.04		0.30	0.30	5.0	-	7.35	0.09	4X4 AREA INLET OF EX. PIPE									960.88				CONSTRU CT BOX OVER EXISTING PIPE
	A2		1.58	0.75	0.75	5.0	-	7.35	8.71	EXISTING 30" CMP	182.00	4.05	30	44.83	4.91	9.13	10.93	0.72		952.84	945.23	947.88	
A2		0.45		0.70	0.70	5.0	-	7.35	2.32	6X4 CURB INLET OF EX. PIPE									952.68				CONSTRU CT BOX OVER EXISTING PIPE
	A1		4.72	0.70	0.70	5.0	-	7.35	24.28	EXISTING 30" CMP	47.00	4.05	30	44.83	4.91	9.13	14.63	1.06		945.23	943.58	946.52	
A1		0.12		0.30	0.30	5.0	-	7.35	0.26	5x5 AREA INLET OVER EX. PIPE									947.76				RECONSTRUCT AREA INLET
	A0		4.84	0.67	0.67	5.0	-	7.35	23.83	EXISTING 36" EQ CMP PIPE	118.00	1.60	36	49.99	7.07	7.07	10.27	0.82		943.58	941.69	945.55	
B4		0.30		0.72	0.72	5.0	-	7.35	1.59	6x4 CURB INLET									955.15				
	B3		0.30	0.72	0.72	5.0	-	7.35	1.59	15 in. HDPE	32.00	2.76	15	10.76	1.23	8.77	6.27	0.72		951.15	950.27	951.36	
B3		0.81		0.40	0.40	5.0	-	7.35	2.38	RECONS EX. AREA INLET									954.27				RECONSTRUCT AREA INLET
	B3		1.11	0.42	0.42	5.0	-	7.35	3.43	24 in. HDPE	42.00	3.22	24	40.70	3.14	12.96	7.86	0.69		949.97	948.61	950.29	
B2		0.00		0.30	0.30	5.0	-	7.35	0.00	JUNCTION BOX									952.61				CONSTRU CT BOX OVER EXISTING PIPE
	B1		2.55	0.67	0.67	5.0	-	7.35	12.56	24 in. HDPE	79.00	3.32	24	41.33	3.14	13.16	11.52	0.99		948.31	945.70	947.51	
B1		0.14		0.42	0.42	5.0	-	7.35	0.43	5x5 AREA INLET									948.50				
	A1		2.69	0.67	0.67	5.0	-	7.35	13.25	24 in. HDPE	69.00	1.90	24	31.27	3.14	9.95	9.52	1.02		945.20	943.88	946.57	
C1		0.38		0.68	0.68	5.0	-	7.35	1.90	6x4 CURB INLET									954.82				
	A2		0.38	0.68	0.68	5.0	-	7.35	1.90	15 in. HDPE	103.00	1.76	15	8.59	1.23	7.00	5.62	0.75		950.50	948.68	948.01	
D1		0.43		0.89	0.89	5.0	-	7.35	2.81	6x4 CURB INLET									967.36				
	A4		0.43	0.71	0.71	5.0	-	7.35	2.24	15 in. HDPE	48.00	1.76	15	8.59	1.23	7.00	5.90	0.78		962.50	962.02	958.30	
E2		0.19		0.52	0.52	5.0	-	7.35	0.73	TRENCH DRAIN									961.75				
	E1		0.19	0.33	0.33	5.0	-	7.35	0.46	15 in. HDPE	82.00	4.10	12	7.23	0.79	9.21	5.20	0.68		959.95	956.68	956.67	
E1		1.25		0.87	0.87	5.0	-	7.35	7.99	6x4 CURB INLET									960.23				
	B3		1.44	0.83	0.83	5.0	-	7.35	8.78	18 in. HDPE	148.00	3.49	18	19.68	1.77	11.13	10.81	1.33		955.68	950.47	951.36	

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

DESIGN CONDITIONS: 100 YEAR STORM EVENT

STRUCTURES				RUNOFF CALCULATIONS							PIPE DESIGN											
FROM	TO	DIRECT AREA (ACRES)	TOTAL AREA (ACRES)	C	KC (K=1.25)	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	Comments
A5		0.30		0.90	1.00	5.0	-	10.32	3.10	EXISTING STRUCTURE									968.63				EXISTING STRUCTURE TO REMIAN
	A4		0.73	0.75	0.94	5.0	-	10.32	7.06	EXISTING 30" CMP	81.00	4.05	30	44.83	4.91	9.13	10.28	0.70		960.13	956.55	958.45	
A4		0.43		0.89	1.11	5.0	-	10.32	4.94	6X4 CURB INLET OF EX. PIPE									967.36				CONSTRU CT BOX OVER EXISTING PIPE
	A3		1.16	0.78	0.98	5.0	-	10.32	11.67	EXISTING 30" CMP	92.00	4.05	30	44.83	4.91	9.13	11.90	0.76		956.55	952.84	954.90	
A3		0.04		0.30	0.38	5.0	-	10.32	0.15	4X4 AREA INLET OF EX. PIPE									960.88				CONSTRU CT BOX OVER EXISTING PIPE
	A2		1.58	0.75	0.94	5.0	-	10.32	15.29	EXISTING 30" CMP	202.00	4.05	30	44.83	4.91	9.13	12.85	0.82		952.84	945.23	949.91	
A2		0.45		0.70	0.88	5.0	-	10.32	4.06	6X4 CURB INLET OF EX. PIPE									952.68				CONSTRU CT BOX OVER EXISTING PIPE
	A1		4.72	0.70	0.88	5.0	-	10.32	42.62	EXISTING 30" CMP	27.00	4.05	30	44.83	4.91	9.13	16.95	1.87		945.23	943.58	946.70	
A1		0.12		0.30	0.38	5.0	-	10.32	0.46	5x5 AREA INLET OVER EX. PIPE									947.76				RECONSTRUCT AREA INLET
	A0		4.84	0.67	0.84	5.0	-	10.32	41.83	EXISTING 36" EQ CMP PIPE	118.00	1.60	36	49.99	7.07	7.07	11.91	1.14		943.58	941.69	946.54	
B4		0.30		0.72	0.90	5.0	-	10.32	2.79	6x4 CURB INLET									955.15				
	B3		0.30	0.72	0.90	5.0	-	10.32	2.79	15 in. HDPE	110.00	2.76	15	10.76	1.23	8.77	7.35	0.83		951.15	950.27	952.98	
B3		0.81		0.40	0.50	5.0	-	10.32	4.18	RECONS EX. AREA INLET									954.27				RECONSTRUCT AREA INLET
	B3		1.11	0.42	0.53	5.0	-	10.32	6.01	24 in. HDPE	55.00	3.22	24	40.70	3.14	12.96	9.27	0.74		949.97	948.61	951.61	
B2		0.00		0.30	0.38	5.0	-	10.32	0.00	JUNCTION BOX									952.61				CONSTRU CT BOX OVER EXISTING PIPE
	B1		2.55	0.67	0.84	5.0	-	10.32	22.04	24 in. HDPE	67.00	3.32	24	41.33	3.14	13.16	13.34	1.65		948.31	945.70	947.26	
B1		0.14		0.42	0.53	5.0	-	10.32	0.76	CURB INLET									948.50				
	A1		2.69	0.67	0.84	5.0	-	10.32	23.25	24 in. HDPE	69.00	1.90	24	31.27	3.14	9.95	10.88	1.76		945.20	943.88	947.76	
C1		0.38		0.68	0.85	5.0	-	10.32	3.33	6x4 CURB INLET									954.82				
	A2		0.38	0.68	0.85	5.0	-	10.32	3.33	15 in. HDPE	98.00	1.76	15	8.59	1.23	7.00	6.56	0.91		950.50	948.68	950.03	
D1		0.43		0.89	1.00	5.0	-	10.32	4.44	6x4 CURB INLET									967.36				
	A4		0.43	0.71	0.89	5.0	-	10.32	3.94	15 in. HDPE	47.00	1.76	15	8.59	1.23	7.00	6.84	1.00		960.84	958.33	958.45	
E2		0.19		0.52	0.65	5.0	-	10.32	1.27	TRENCH DRAIN									961.75				
	E1		0.19	0.33	0.41	5.0	-	10.32	0.81	12 in. HDPE	79.00	4.10	12	7.23	0.79	9.21	6.09	0.71		959.95	956.68	958.58	
E1		1.25		0.87	1.00	5.0	-	10.32	12.90	6x4 CURB INLET									960.23				
	B3		1.44	0.83	1.00	5.0	-	10.32	14.86	18 in. HDPE	148.00	3.49	18	19.68	1.77	11.13	12.21	2.55		955.68	950.27	953.27	

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/21/2021

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Engineer of Record

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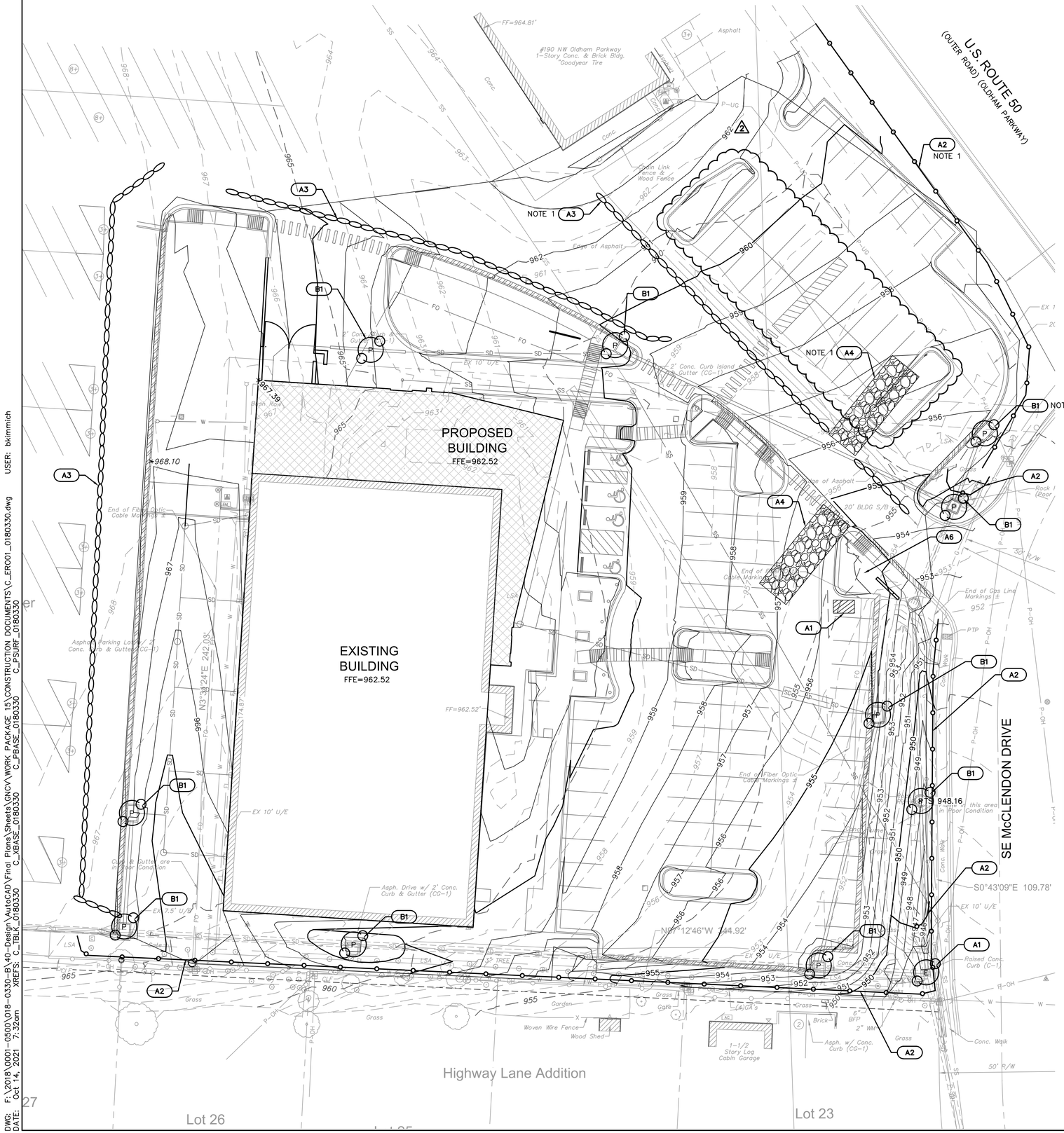
Revision No.	Description	Date
02	ASI01	06.26.21

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.
C6.1
DRAINAGE CALCULATIONS



LEGEND

- PROPERTY LINE
- LOT LINE
- 999 — PROPOSED CONTOUR
- 999 — EXISTING CONTOUR
- LIMITS OF DISTURBANCE (41.8+/– ACRES)
- SILT FENCE
- TEMPORARY CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- STAGING/STOCKPILE AREA
- FILTER BAGS
- E — EXISTING INLET PROTECTION
- P — PROPOSED INLET PROTECTION
- X1 — EROSION CONTROL REFERENCE NUMBER

NOTE 1:
THE NOTED BMP IS ONLY REQUIRED IF BID ALTERNATE 1 IS ACCEPTED

NOTE 2:
EROSION AND SEDIMENT CONTROL SHALL BE IMPLEMENTED PER THE CURRENTLY APPROVED DESIGN CRITERIA (LS SECTION 5100) AND STANDARD SPECIFICATIONS (LS SECTION 2150) FOR THE CITY OF LEE'S SUMMIT, MISSOURI.

EROSION CONTROL STAGING CHART

PROJECT STAGE	EROSION CONTROL BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A – PRE DISTURBANCE	A1	CONCRETE WASHOUT	C	INSTALL AS INDICATED ON PLANS
	A2	STAGE A SLOPE PROTECTION (SILT FENCE)	C	INSTALL AS INDICATED ON PLANS
	A3	STAGE A SLOPE PROTECTION (GRAVEL FILTER BAGS)	C	INSTALL AS INDICATED ON PLANS
	A4	STABILIZED CONSTRUCTION ENTRANCE	C	INSTALL AS INDICATED ON PLANS
	A5	EXISTING INLET PROTECTION	C	INSTALL AS INDICATED ON PLANS
	A6	SWPPP SIGN	C	
B – MASS GRADING, BUILDING CONSTRUCTION, UTILITIES AND PAVING	B1	INLET PROECTION	C	INSTALL AS INDICATED ON PLANS
C – FINAL STABILIZATION	C1	REPLACE TOP SOIL, SEED MULCH	N/A	ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA.

N

0' 10' 20' 40'
SCALE IN FEET

RELEASE FOR CONSTRUCTION
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Date: 06/21/2021

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Engineer of Record

STATE OF MISSOURI
TERRY M. PARSONS
NUMBER PE-2010010505
11/13/2021
PROFESSIONAL ENGINEER

Terry M Parsons, Engineer MO PE-2018010505

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Revision No.	Description	Date
02	ASI01	06.26.21
03	ASI02	08.30.21

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

C7.1
EROSION CONTROL PLAN

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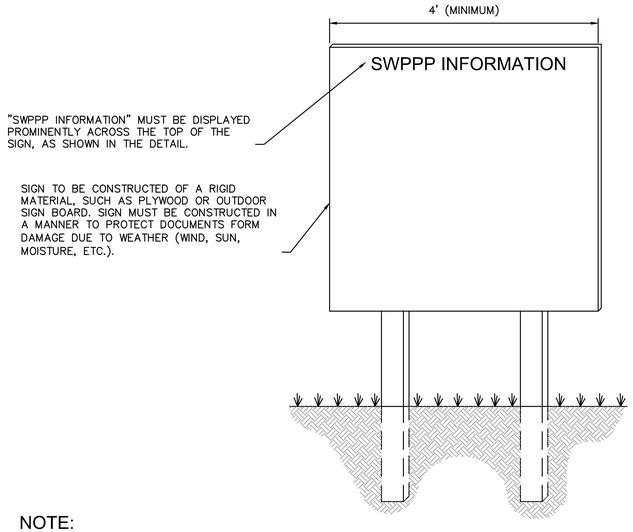

NOTE:

1. THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE ENTRANCE OF SITE, SUCH THAT IT IS ACCESSIBLE AND VIEWABLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEW AS TO CAUSE A SAFETY HAZARD.
2. ALL POSTED DOCUMENTS REQUIRED BY THE DEPARTMENT OF NATURAL RESOURCES MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT.
3. CONTRACTOR SHALL POST OTHER STORMWATER AND/OR EROSION CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE GOVERNING AGENCY.
4. SIGN SHALL BE LOCATED OUTSIDE PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
5. CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THE SWPPP INFORMATION SIGN.

SWPPP INFORMATION SIGN
NOT TO SCALE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/21/2021

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Revision No.	Description	Date
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Project No.	Date	Drawn
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Drawing No.
C7.2
EROSION CONTROL DETAILS

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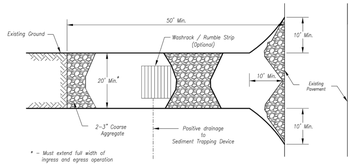
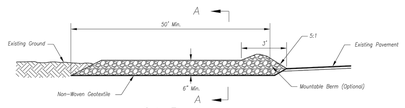
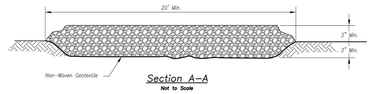


Plan View
Not to Scale



Side Elevation
Not to Scale



Section A-A
Not to Scale

Notes for Construction Entrance:

1. Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed areas.
2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
3. If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 3H:1V side slopes across the foundation approximately 10 feet from the edge of the public road to divert runoff from it.
4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
6. Divert all surface runoff and drainage from the entrance to a sediment control device.
7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

Maintenance for Construction Entrance:

1. Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

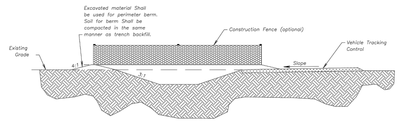
CONSTRUCTION ENTRANCE

Notes for Concrete Washout:

1. Concrete washout areas shall be installed prior to any concrete placement on site.
2. Concrete washout area shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
3. Vehicle tracking control is required at the access point to all concrete washout areas.
4. Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.
5. A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravely soils.

Maintenance for Concrete Washout:

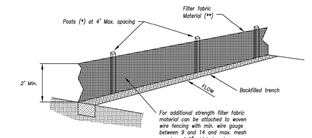
1. Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
2. Concrete washout areas shall be enlarged as necessary to maintain capacity for wasted concrete.
3. Concrete washout water, wasted pieces of concrete and all other debris in the subsurface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

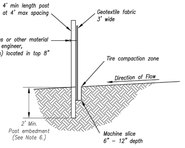


CONCRETE WASHOUT

Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control, Concrete Washout modified from 2009 City of Great Bend Standard Drawings.

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





(*) POSTS
- MIN. LENGTH 4'
- HARDWOOD 1 ¾" x 1 ¾"
- NO.2 SOUTHERN PINE 2 ⅜" x 2 ⅜"
- STEEL 1.33 LB/FT

(**) - Geotextile Fabric shall meet the requirements of AASHTO M288

Notes:

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

Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches ½ the height of silt fence.
2. Repair as necessary to maintain function and structure.

SILT FENCE DETAILS
Not to Scale

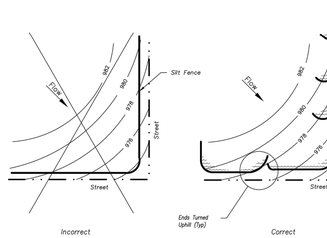
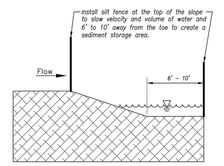
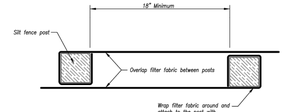


Figure A

SILT FENCE LAYOUT
Not to Scale



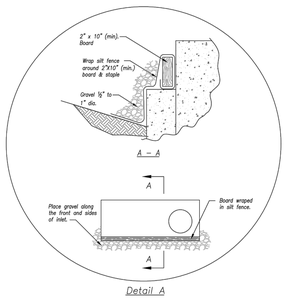


JOINING FENCE SECTIONS
Not to Scale

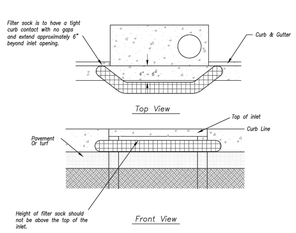
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

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

On Grade Curb Inlet Protection



Detail A



Sump Inlet Sediment Filter

Notes:

1. Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2" x 10" (min.) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
2. When inlet is completed and curb poured, filter socks or approved equal should be used (Late Stage Curb Inlet). Straw wattles are not approved for curb inlet use.
3. Contractor to field verify ponding water shall not create a traffic hazard.

Maintenance:

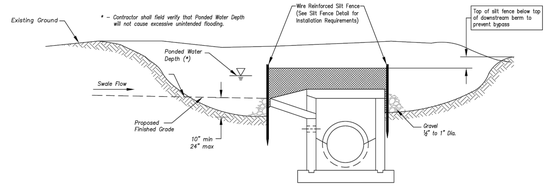
1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
3. Repair or replace as necessary to maintain function and integrity of installation.

EARLY STAGE CURB INLET
(Open Box and Prior to Pouring Curb and Inlet Throat)

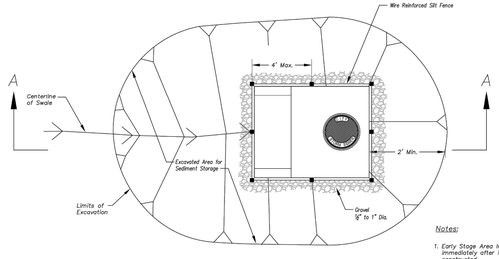
LATE STAGE CURB INLET
(After Pouring Curb and Inlet Throat)

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION	KANSAS CITY METRO CHAPTER
CURB INLET PROTECTION	STANDARD DRAWING NUMBER ESC-06 ADOPTED: 10/24/2016



Section A-A
Not to Scale

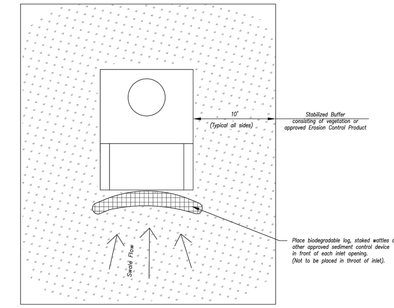


Plan
Not to Scale

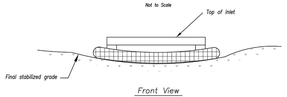
Notes:

1. Early Stage Area Inlet Sediment Barrier to be installed immediately after inlet or junction box is constructed.
2. Silt fence shall remain in place until excavated area is removed and Late Stage Area Inlet is being installed.
3. Backfill excavated area ONLY after final grading of the site. Stabilization of the site is to immediately follow.
4. Wire reinforced silt fence may be used in place of silt fence attached to wood frame.

EARLY STAGE AREA INLET
(All open boxes and inlets not at final grade)



Plan
Not to Scale



Front View

LATE STAGE AREA INLET
(Area inlets at final grade and existing inlets)

Maintenance:

1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
3. Repair or replace as necessary to maintain function and integrity of installation.

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

AMERICAN PUBLIC WORKS ASSOCIATION	KANSAS CITY METRO CHAPTER
AREA INLET AND JUNCTION BOX PROTECTION	STANDARD DRAWING NUMBER ESC-07 ADOPTED: 10/24/2016

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SPECIAL NOTICES

In the event the client consents to, allows, authorizes or approves 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 & wherever 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.

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4/13/2021
Terry M Parsons, Engineer MO PE-2018010505

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Drawing No.
C7.3
EROSION CONTROL DETAILS

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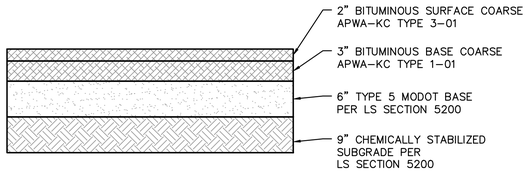
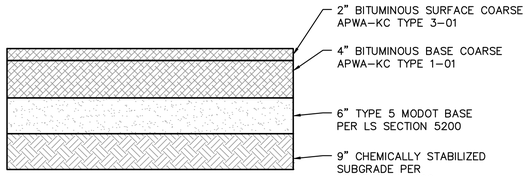
USER: bkimmich



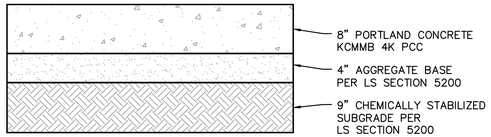
ASPHALT PAVEMENT (LIGHT TRAFFIC) WITH AGGREGATE BASE SECTION

NOT TO SCALE



ASPHALT PAVEMENT (HEAVY TRAFFIC) WITH AGGREGATE BASE SECTION

NOT TO SCALE

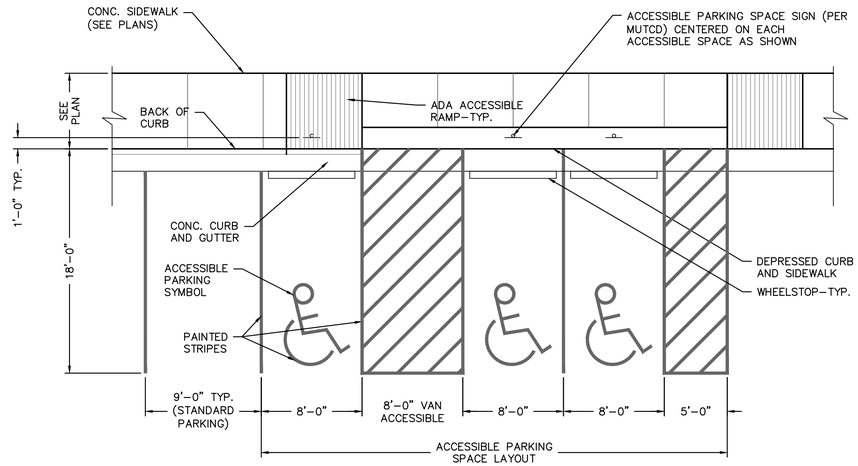


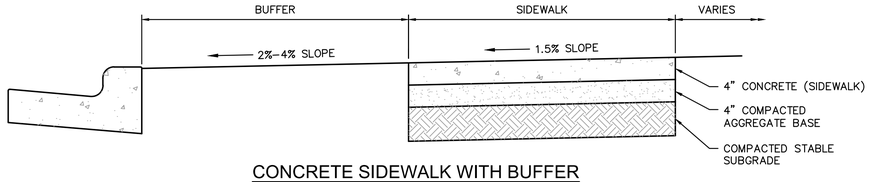
PORTLAND CEMENT CONCRETE (PCC) DRIVE PAVEMENT SECTION

NOT TO SCALE

NOTE

ACCESSIBLE PARKING SYMBOL AND SIGNAGE SHALL COMPLY WITH THE APPLICABLE RECOMMENDATIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).





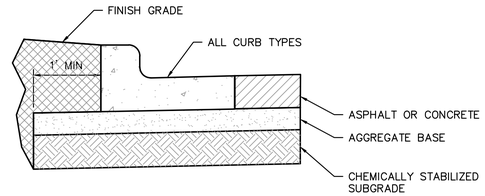
CONCRETE SIDEWALK WITH BUFFER

NOT TO SCALE

GENERAL NOTES:

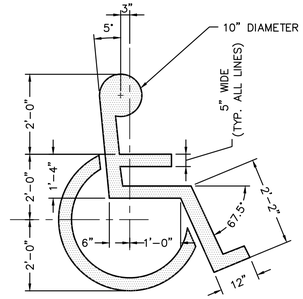
1. SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
3. KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS OR AS APPROVED BY THE CITY INSPECTOR.
4. ALL SIDEWALKS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG)
5. AN EXPANSION JOINT SHALL BE PLACED AT A MAXIMUM OF 150 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK, BUT NO GREATER THAN 10 FT.
6. SIDEWALK FINISHING (NO PICTURE FRAMING) AS DIRECTED BY CITY INSPECTOR.
7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

TYPICAL ADA PARKING SPACE LAYOUT DETAIL



TYPICAL SUBGRADE PLACEMENT UNDER CURB

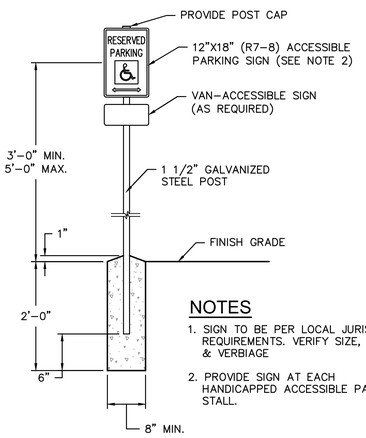
NOT TO SCALE



PROVIDE PAINTED SYMBOL AT EACH DESIGNATED ACCESSIBLE PARKING STALL. CENTER SYMBOL IN EACH STALL.

ACCESSIBLE PARKING SYMBOL

NOT TO SCALE

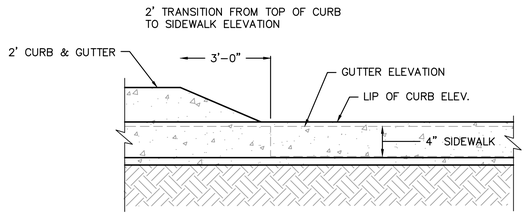


NOTES

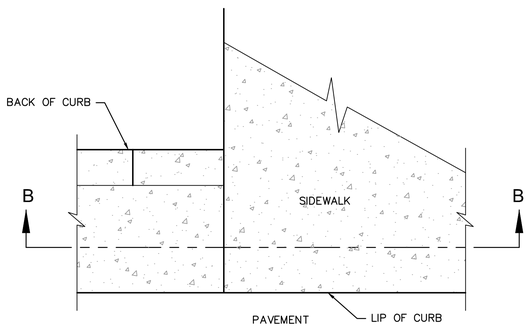
1. SIGN TO BE PER LOCAL JURISDICTION REQUIREMENTS. VERIFY SIZE, SHAPE & VERBIAGE
2. PROVIDE SIGN AT EACH HANDICAPPED ACCESSIBLE PARKING STALL.

ACCESSIBLE PARKING SPACE SIGNAGE

NOT TO SCALE



SECTION B-B



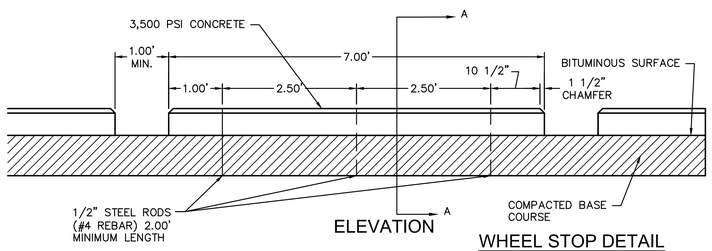
PLAN

CURB TRANSITION DETAIL

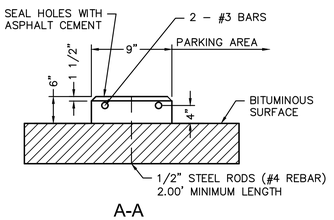
NOT TO SCALE

NOTE:

ANCHOR RODS TO BE SLEEVED OF GREASED THRU CONCRETE CURBS TO PERMIT RELOCATION OF CURBS.



ELEVATION



A-A

WHEEL STOP DETAIL

NOT TO SCALE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/21/2021

SAPP DESIGN ARCHITECTS
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
Helix Architecture + Design
Missouri State Certificate of Authority #000720

SPECIAL NOTICES

Mid-Continent Public Library
CONSTRUCTION DOCUMENTS
LEE'S SUMMIT LIBRARY
150 NW Oldham Parkway
LEE'S SUMMIT, MO 64081
JACKSON COUNTY

PACKAGE 15

Engineer of Record

STATE OF MISSOURI
TERRY M PARSONS
NUMBER PE-2018010505
10/13/2021
PROFESSIONAL ENGINEER

Terry M Parsons, Engineer MO PE-2018010505

olsson
7301 West 133rd Street, Suite 200
Overland Park, KS 66213
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www.olsson.com
Olsson
Missouri State Certificate of Authority #001592

Revision No.	Description	Date

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

C8.0

STANDARD DETAILS

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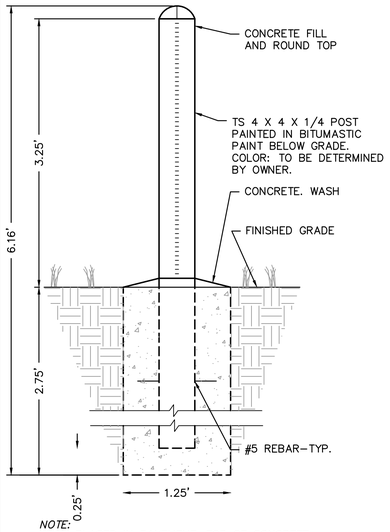
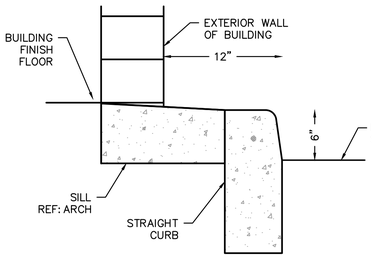
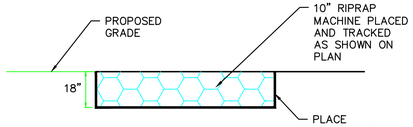


NOTE:
WHEN PLACED IN PAVEMENT, TOP OF CONCRETE FOUNDATION SHALL BE PLACED BELOW NEW PAVEMENT WITH 1/2 ISOLATION JOINT & SEAL.

BOLLARD DETAIL
NOT TO SCALE



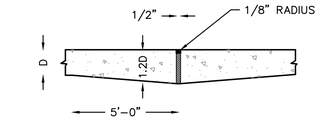
PROTECTION CURB
NOT TO SCALE



10" RIPRAP

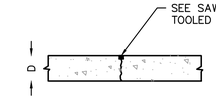
WEIGHT OF INDIVIDUAL PIECES	MINIMUM PERCENT LARGER THAN
500 lbs.	0%
250 lbs.	50%
125 lbs.	70%
10 lbs.	90%

STONE RIPRAP DETAIL
NOT TO SCALE

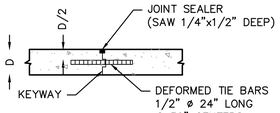


EXPANSION JOINT AT CONNECTION TO EXISTING PAVEMENT

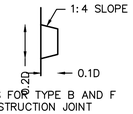
NOTE:
1. EXPANSION JOINTS TO BE USED IN ALL AREAS THAT CONCRETE PAVEMENT ABUTS BUILDING



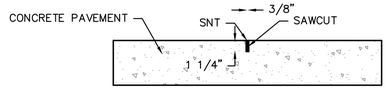
SAWED LONGITUDINAL OR TRANSVERSE



EMERGENCY TIED TRANSVERSE CONSTRUCTION JOINT
(USED AT MIDDLE THIRD NORMAL JOINT SPACING)

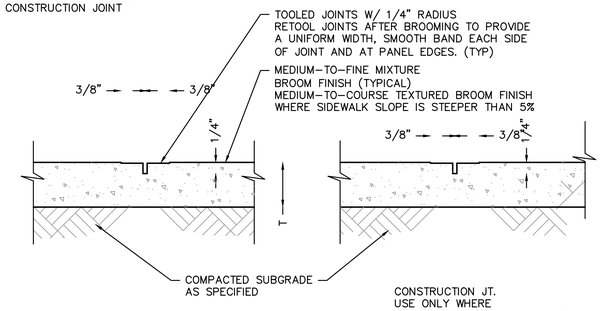


KEYWAYS FOR TYPE B AND F CONSTRUCTION JOINT



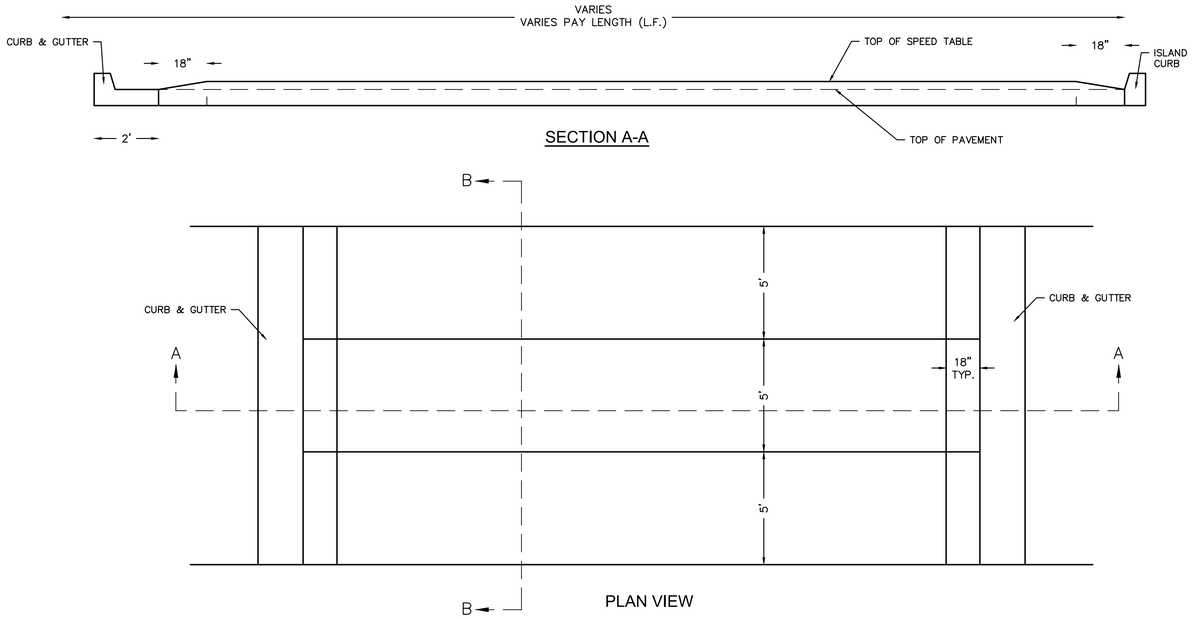
CONCRETE PAVEMENT CONTRACTION (SAWCUT) JOINT SECTION

SAWCUT JOINT



TOOLED JOINT

CONCRETE PAVING JOINT DETAILS
NOT TO SCALE



SECTION A-A

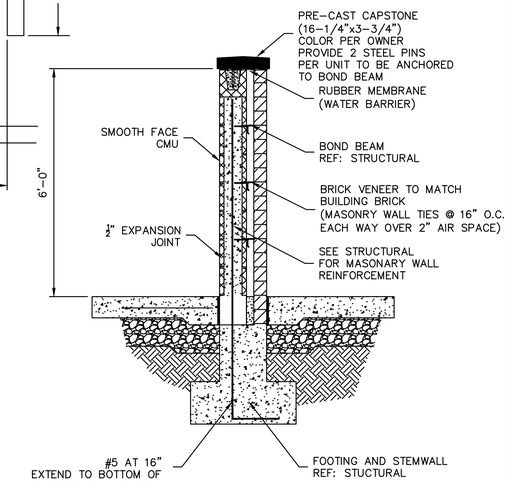
PLAN VIEW

SECTION B-B

SPEED TABLE DETAIL
NOT TO SCALE

NOTES:
1. CONCRETE SHALL BE 7" PORTLAND CONCRETE KCMMB 4K PCC WITH 4" AGGREGATE BASE PER LS SECTION 5200.
2. TOP ROW OF REBAR SHALL BE ON "P" STAKES.
3. BOTTOM ROW OF REBAR SHALL BE ON CHAIRS.
4. QUANTITY SHALL BE MEASURED PER LINEAR FOOT FROM LIP OF CURB TO LIP OF CURB.
5. CONSTRUCTION JOINTS SHALL BE PLACED AT ALL BREAKS IN SLOPE.

PLAN



TYPICAL WALL SECTION

TRASH ENCLOSURE DETAIL
NOT TO SCALE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/21/2021

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\C_DTL01_0180330.dwg USER: bkimmich
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SAPP DESIGN ARCHITECTS
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

Helix Architecture + Design
Missouri State Certificate of Authority #000720

SPECIAL NOTICES

Mid-Continent Public Library
CONSTRUCTION DOCUMENTS

LEE'S SUMMIT LIBRARY

150 NW Oldham Parkway
LEE'S SUMMIT, MO 64081
JACKSON COUNTY

PACKAGE 15

Engineer of Record

Terry M Parsons, Engineer MO PE-2018010505

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7301 West 133rd Street, Suite 200
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Olsson
Missouri State Certificate of Authority #001592

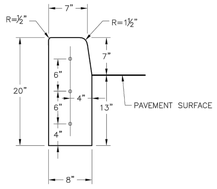
Revision No.	Description	Date

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

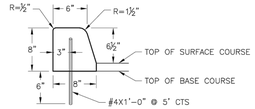
Drawing No.

C8.1

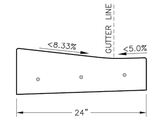
STANDARD DETAILS



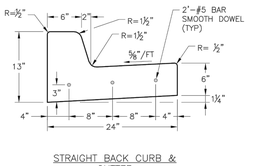
STRAIGHT CURB
(TYPE C-1)



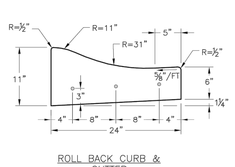
DOWELLED CURB
(TYPE DC)



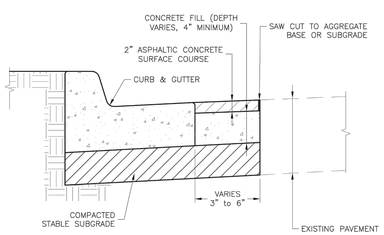
CURB & GUTTER DETAIL AT RAMP
(ADA SLOPE REQUIREMENTS)



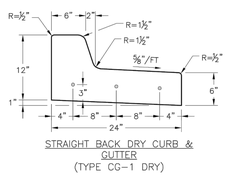
STRAIGHT BACK CURB & GUTTER
(TYPE CG-1)



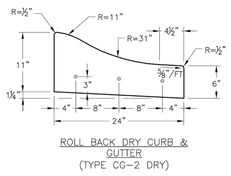
ROLL BACK CURB & GUTTER
(TYPE CG-2)



CURB REPLACEMENT DETAIL



STRAIGHT BACK DRY CURB & GUTTER
(TYPE CG-1 DRY)



ROLL BACK DRY CURB & GUTTER
(TYPE CG-2 DRY)

GENERAL NOTES

1. ¾" ISOLATION JOINTS WITH 3 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
4. KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
5. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

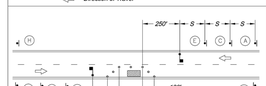
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
CURB & GUTTER DETAIL

Sheet Number: GEN-4

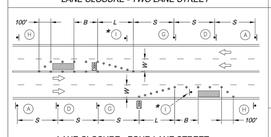
Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

SYMBOL LEGEND

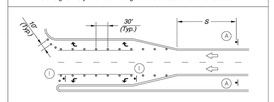
- Work Area
- Sign
- Barricade
- Direction of Travel
- Channelizer
- Arrow Panel
- Flagger



LANE CLOSURE - TWO LANE STREET



LANE CLOSURE - FOUR LANE STREET
* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



TURN LANE CLOSURE

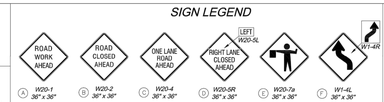
Sign Spacing "S"	
Speed Limit (mph)	Spacing (Feet)
25	100
30 - 35	250
≥ 40	350

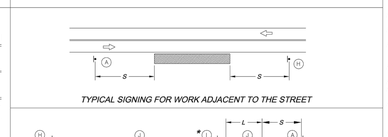
Taper Dimensions (Feet)				
Speed Limit (mph)	Minimum Taper Length "L", per Lane Width "W"			Minimum Number of Channelizers
	10	11	12	
25	105	115	125	6
30	150	165	180	7
35	205	225	245	8
40	270	295	320	9
45	450	495	540	13

Guidelines for Length of Longitudinal Buffer Space "B"	
Speed Limit (mph)	Length (Feet)
25	35
30	55
35	85
40	120
45	170

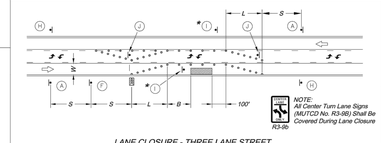
Maximum Channelizer Spacing			
Speed Limit (mph)	Within Taper (Feet)	Outside Taper (Feet)	
25	25	50	
30	30	60	
35	35	70	
40	40	80	
45	45	90	

SIGN LEGEND

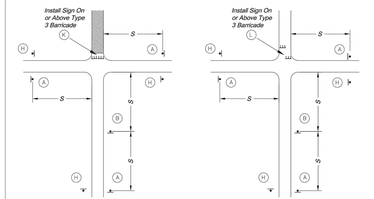




TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET



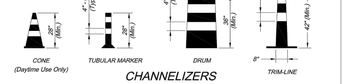
LANE CLOSURE - THREE LANE STREET
* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



TYPICAL STREET CLOSURE

GENERAL NOTES:

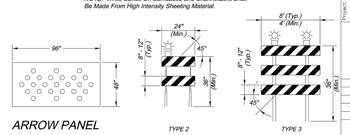
1. *All signs, barricades, channelizers, markings and other traffic control devices shall conform to the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).*
2. *All traffic control devices shall be standard in size, shape, color, and message, in good condition, and retro-reflectorized.*
3. *All signs shall be securely mounted with height and lateral location as described in the MUTCD.*
4. *Warning lights shall be used on barricades in place at night and on warning signs which alert drivers about a change in alignment, traffic control, lane closure, or road closure.*
4. *Flaggers 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 character, training, attire, and behavior.*
5. *Trim-lines are the City's preferred channelizing device. Cones may not be used at nighttime.*
6. *Traffic control devices not in use or not applicable shall be either covered or removed from the work area.*
7. *The Contractor shall use barricades, street plates, or fencing as needed to effectively shield pedestrian and vehicular traffic from exposed objects, excavations, and construction activities.*
8. *Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.*
9. *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 a detour route around the closure is to be provided, all detour signing shall be as shown on a plan approved by the City Traffic Engineer.*
10. *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 exiting at streets or drives.*
11. *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.*
12. *The Contractor shall not 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 stated in the specifications.*
13. *All travel lanes should be at least 11 feet wide unless otherwise authorized by the City Traffic Engineer. A "Narrow Lanes" sign shall be installed in advance of a lane width reduction to less than 11 feet.*
14. *All edge drop-offs of more than 2 inches and less than 4 inches should 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).*
15. *The "Workers" symbolic 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 "Workers" sign.*
16. *No traffic signal shall be altered or modified in any way without a plan approved by the City Traffic Engineer.*
17. *The Contractor shall be responsible for maintaining all traffic control devices on an around-the-clock basis, whether or not work is actively being pursued and any deficiencies noted shall be corrected immediately.*
18. *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.*
19. *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.*



CONE (Daytime Use Only) | TUBULAR MARKER | DRUM | TRIM-LINE

CHANNELIZERS

NOTE: White Bands On Barricades and Channelizers Shall Be Made From High Intensity Sheeting Material.



ARROW PANEL | TYPE 2 | TYPE 3 | BARRICADES

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809

TRAFFIC CONTROL DETAILS

Sheet Number: STANDARD DRAWING TC-1

Drawn By: JJW
Checked By: MF
Date: 12-10-2008
Project No.: X

"X"

X

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\C_DTL01_0180330.dwg
DATE: Jun 02, 2021 3:09pm XREFS: C_TBLK_0180330 USER: bkimmich

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/21/2021

SAPP DESIGN ARCHITECTS

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

Helix Architecture + Design
Missouri State Certificate of Authority #000720

SPECIAL NOTICES

In the event the client consents to, allows, authorizes or approves 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 & wherever 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.

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CONSTRUCTION DOCUMENTS
LEE'S SUMMIT LIBRARY
150 NW Oldham Parkway
LEE'S SUMMIT, MO 64081
JACKSON COUNTY

PACKAGE 15

Engineer of Record

STATE OF MISSOURI
TERRY M. PARSONS
NUMBER PE-2018010505
PROFESSIONAL ENGINEER
11/02/2021

Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
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Olsson
Missouri State Certificate of Authority #001592

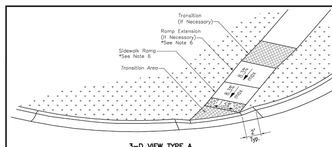
Revision No.	Description	Date

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

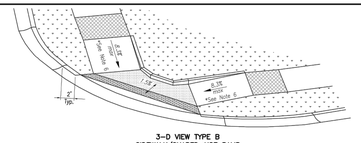
Drawing No.

C8.2

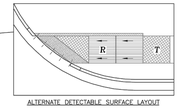
STANDARD DETAILS



3-D VIEW TYPE A
SIDEWALK/SHARED-USE RAMP



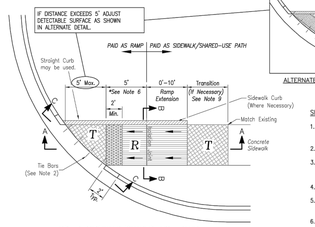
3-D VIEW TYPE B
SIDEWALK/SHARED-USE RAMP



ALTERNATE DETECTABLE SURFACE LAYOUT

LEGEND

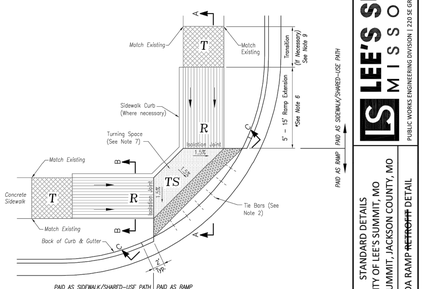
R	SIDEWALK RAMP
TS	TURNING SPACE
	DETECTABLE WARNING SURFACE
T	TRANSITION



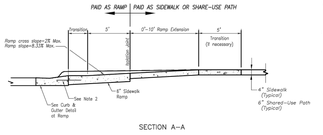
TYPE A SIDEWALK/SHARED-USE RAMP
Not to Scale

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

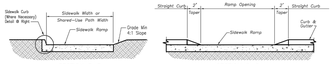
1. CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
2. USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED TIE BARS 9" IN EACH DIRECTION.
3. ALL RAMPS, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
4. LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
5. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 150' CENTERS MAX.
6. ADA MAXIMUM RAMP SLOPE = 7.5%
   ADA MAXIMUM CROSS SLOPE = 1.5%
   *ROADWAY EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL A MAXIMUM OF 1.5%.
7. TURNING SPACES SHALL BE 1.5% MAX SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'x4' TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
8. *ALL SPOT ELEVATION, SLOPES, AND DETECTABLE SURFACE PLACEMENT WILL MATCH THE SPECIFIC GRADING DETAIL PROVIDED FOR EACH RAMP*
9. RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMPS TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF ADDITIONAL SIDEWALK BEYOND THE RAMP AREA. SIDEWALK TRANSITION LENGTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
10. ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).



TYPE B SIDEWALK/SHARED-USE RAMP
Not to Scale



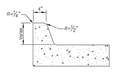
SECTION A-A



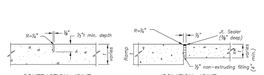
SECTION B-B

SECTION C-C

TYPE A & B SIDEWALK RAMP
Not to Scale



SIDEWALK CURB DETAIL
Not to Scale



CONTRACTION JOINT ISOLATION JOINT

JOINT DETAILS
Not to Scale

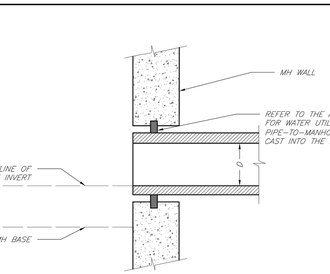
CURB & GUTTER DETAIL AT RAMP
Not to Scale

Drawn By: MJF	
Checked By: DL	
Date: 04/17	
Proj. #:	

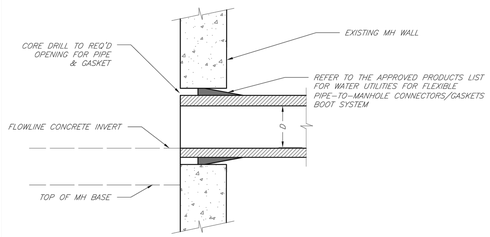
GEN-3A

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

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



NEW MANHOLE

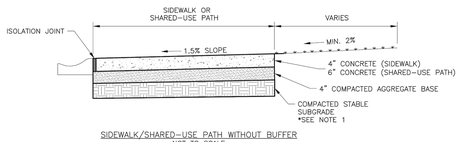


EXISTING MANHOLE

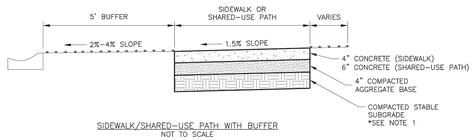
Date: 02/13	
Drawn By: JN	
Checked By: DL	
FILE: SAN-5	
Rev: 1/14	
Rev:	

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

MANHOLE WALL CONNECTIONS



SIDEWALK/SHARED-USE PATH WITHOUT BUFFER
NOT TO SCALE



SIDEWALK/SHARED-USE PATH WITH BUFFER
NOT TO SCALE

GENERAL NOTES:

1. SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
3. KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS AND SHARED-USE PATHS OR AS APPROVED BY THE CITY INSPECTOR.
4. ALL SIDEWALKS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
5. AN EXPANSION JOINT SHALL BE PLACED AT A MAXIMUM OF 150 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK, BUT NO GREATER THAN 10 FT.
6. SHARED-USE PATH WIDTH SHALL BE 10 FT. WIDE.
7. SIDEWALK FINISHING (NO PICTURE FRAMING) AS DIRECTED BY CITY INSPECTOR.
8. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

Date: 04/17	
Drawn By: MJF	
Checked By: DL	

GEN-2

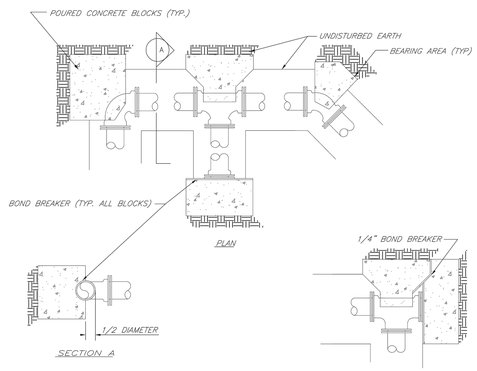
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

SIDEWALK/SHARED-USE PATH DETAIL

REQUIRED CONCRETE BEARING AREA (SQUARE FEET – SF)

NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	4.7	6.7	4.0	4.0	4.0
8	8.4	11.8	6.4	4.0	4.0
10	13.1	18.5	10.0	5.1	4.0
12	18.8	26.7	14.4	7.4	4.0
14	25.7	36.3	19.6	10.0	5.0
16	33.5	47.4	25.6	13.1	6.6
18	42.4	REST. JT.	32.5	16.5	8.3
20	REST. JT.	REST. JT.	40.1	20.4	10.3
24	REST. JT.	REST. JT.	REST. JT.	29.4	14.8

NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



Date: 02/13	
Drawn By: JN	
Checked By: DL	
FILE: WAT-1	
Rev: 1/14	
Rev:	

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

HORIZONTAL THRUST BLOCKS

SAPP DESIGN ARCHITECTS

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

Helix Architecture + Design
Missouri State Certificate of Authority #000720

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Mid-Continent Public Library
CONSTRUCTION DOCUMENTS

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JACKSON COUNTY

PACKAGE 15

Engineer of Record

STATE OF MISSOURI
TERRY M. PARSONS
NUMBER PE-2018010505
PROFESSIONAL ENGINEER
10/21/2021

Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
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Missouri State Certificate of Authority #001592

Revision No.	Description	Date

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

C8.3

STANDARD DETAILS

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

10/21/2021

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNCV\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\C_DTL01_0180330.dwg USER: bkimmich
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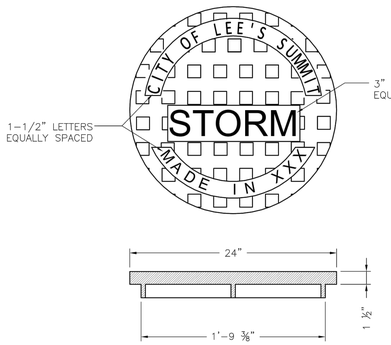


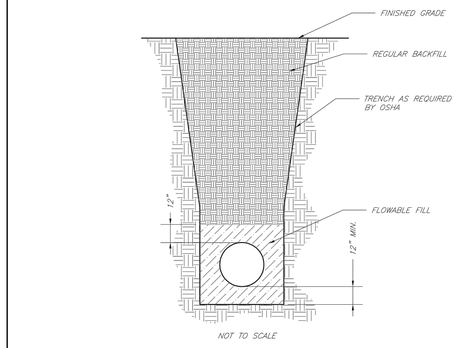
STANDARD 24" MANHOLE COVER
MINIMUM WEIGHT = 160 LB
NOTE: PICK HOLES NOT SHOWN

*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCT LIST.

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STORM MANHOLE COVER DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL
STM-6



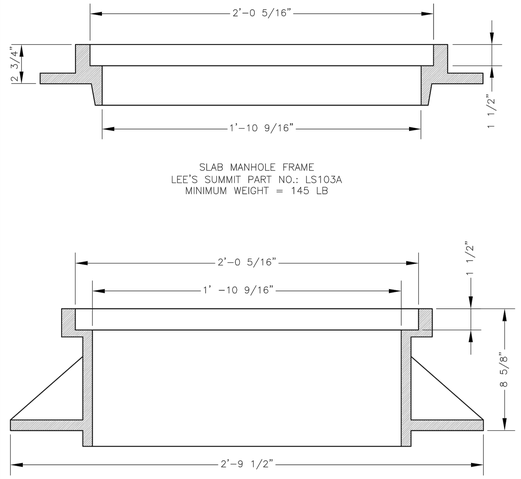
NOT TO SCALE

NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
4. LENGTH OF TRENCH CHECK SHALL BE A MINIMUM OF 12".

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

TRENCH CHECK

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-6
Rev: 1/14
Rev:



SLAB MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS103A
MINIMUM WEIGHT = 145 LB

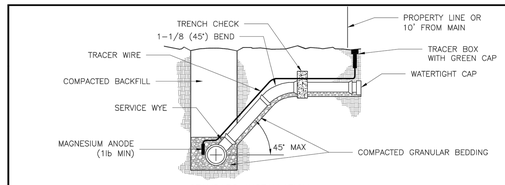
STANDARD 24" MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS101A
MINIMUM WEIGHT = 250 LB

*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCTS LIST.

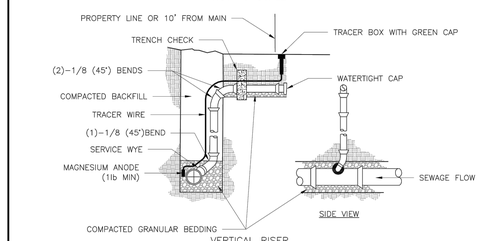
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STORM MANHOLE FRAME DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL
STM-7



STANDARD INSTALLATION
NOT TO SCALE



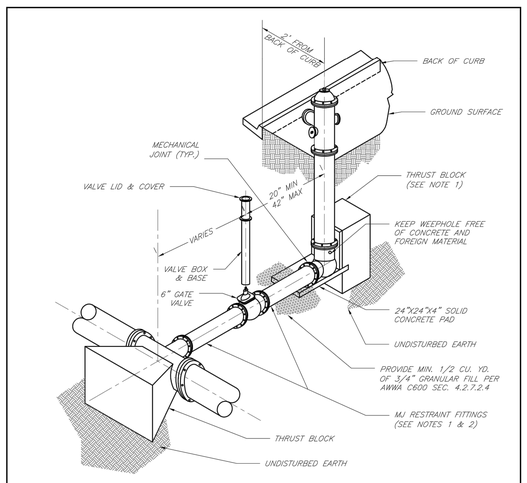
VERTICAL RISER
NOT TO SCALE

NOTES:
1. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN. WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
2. ALL NEW CONSTRUCTION OFF SEWER STUBS SHALL BE TEMPORARILY MARKED WITH A MARKING STAKE, 36" ABOVE GROUND AND PAINTED GREEN.
3. IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
4. TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH SHALL BE A MINIMUM OF 12". THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
5. SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
6. #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
7. FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
8. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.
9. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

BUILDING SEWER STUB AND RISER

Date: 04/17
Drawn By: MJF
Checked By: DL
SAN-1



NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10' FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

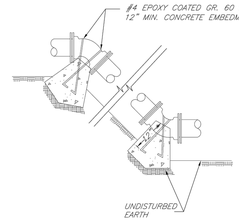
HYDRANT INSTALLATION – STRAIGHT SET

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-7
Rev: 1/14
Rev:

REQUIRED CONCRETE VOLUME (CUBIC FEET – CF)

NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	50.5	71.4	38.6	19.7	9.9
8	89.8	126.9	68.7	35.0	17.6
10	140.2	198.3	107.3	54.7	27.5
12	202.0	REST. JT.	154.6	78.8	39.6
14	REST. JT.	REST. JT.	210.4	107.3	53.9
16	REST. JT.	REST. JT.	REST. JT.	140.1	70.4
18	REST. JT.	REST. JT.	REST. JT.	177.3	89.1
20	REST. JT.	REST. JT.	REST. JT.	REST. JT.	110.0
24	REST. JT.	REST. JT.	REST. JT.	REST. JT.	158.4

NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
3. BEARING MUST BE AGAINST UNDISTURBED SOIL.
4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

VERTICAL THRUST BLOCKS

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-2
Rev: 1/14
Rev:

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/21/2021

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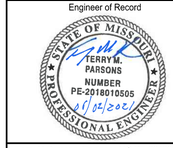
1629 Walnut
Kansas City, MO 64108 816.300.0300
Helix Architecture + Design
Missouri State Certificate of Authority #000720

SPECIAL NOTICES

Mid-Continent Public Library
CONSTRUCTION DOCUMENTS
LEE'S SUMMIT LIBRARY
150 NW Oldham Parkway
LEE'S SUMMIT, MO 64081
JACKSON COUNTY

PACKAGE 15

Engineer of Record



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Missouri State Certificate of Authority #001592

Revision No.	Description	Date

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.
C8.4
STANDARD DETAILS

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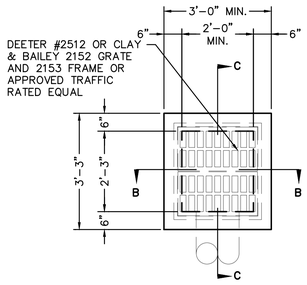
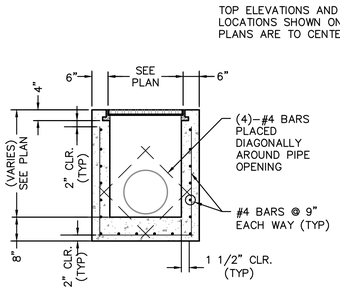
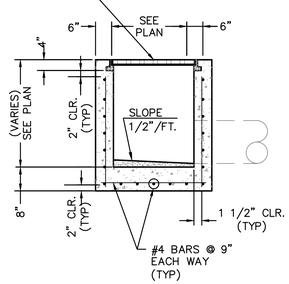


PLAN

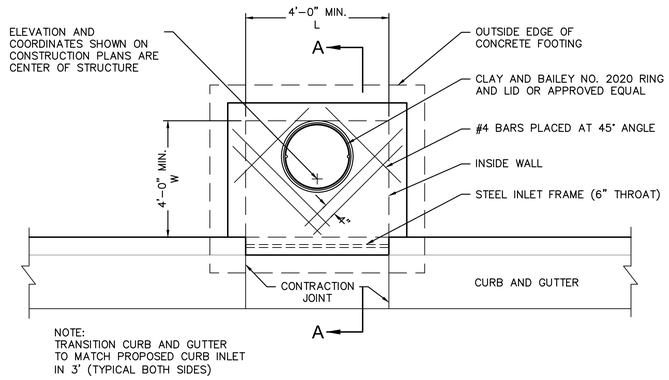


TYPICAL SECTION B



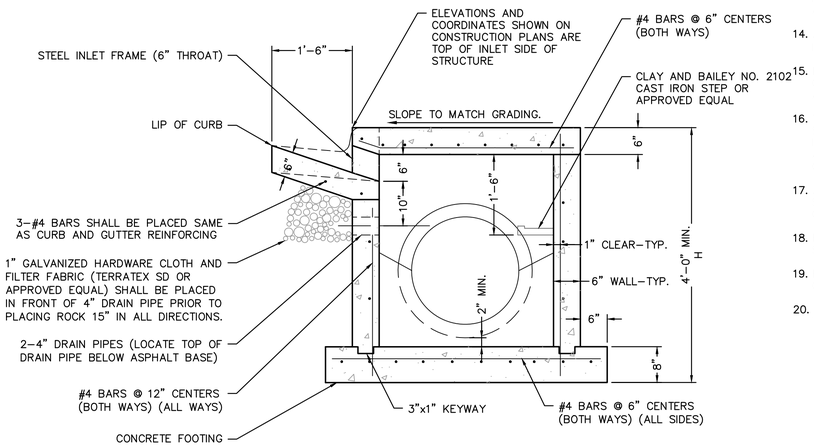
TYPICAL SECTION C

DOUBLE GRATE INLET DETAILS
NOT TO SCALE



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

PLAN



SECTION A-A

NON-SETBACK CURB INLET
NOT TO SCALE

NON-SETBACK CURB INLET NOTES

1. USE CITY APPROVED CONCRETE THROUGHOUT.
2. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION.THE SECOND DIMENSION IS THE "W" DIMENSION.
3. FLOOR OF INLET SHALL BE SHAPED TO PROVIDE SMOOTH FLOW.
4. EXPANSION JOINTS SHALL BE EITHER HOT OR COLD POURED JOINT SEALING COMPOUND, OR PREMOLDED EXPANSION JOINT FILLER.
5. STEEL INLET FRAME SPACERS SHALL BE PLACED AT EQUAL SPACINGS NOT TO EXCEED 4'-0".
6. 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.
7. BEVEL ALL EXPOSED EDGES WITH TRIANGULAR MOLDING.
8. ON-GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
9. ALL STORM SEWER STRUCTURES SHALL BE PRECAST. PRECAST SHOP DRAWINGS SHALL BE APPROVED BY THE DESIGN ENGINEER.
10. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
11. 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.
12. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
13. 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.
14. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
15. 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.
16. 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.
17. 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.
18. RCP CONNECTIONS TO PRECAST STRUCTURE SHALL MEET ALL CITY STANDARDS.
19. BACKFILL AROUND STRUCTURES SHALL BE COMPACTED AND SHALL BE OF THE MATERIAL SPECIFIED PER CITY STANDARDS.
20. NON-SETBACK CURB INLET TO BE USED ONLY WITH THE APPROVAL OF THE CITY ENGINEER.

NOTES

GENERAL

1. ALL STORM SEWER STRUCTURES SHALL BE PRECAST. PRECAST SHOP DRAWINGS SHALL BE APPROVED BY THE DESIGN ENGINEER.
2. PRE-CAST SHOP DRAWINGS ARE TO BE APPROVED BY THE CITY ENGINEER FOR PUBLICLY FINANCED OR ADMINISTERED PROJECTS. PRE-CAST SHOP DRAWINGS FOR PRIVATELY FINANCED PROJECTS ARE TO BE SUBMITTED TO THE ENGINEERING SERVICES DIVISION OF THE PLANNING AND DEVELOPMENT SERVICES DEPARTMENT.
3. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY ENGINEER PRIOR TO CONSTRUCTION.
4. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION. THE CONCRETE THICKNESS AND REINFORCEMENT SHOWN IS FOR BOXES WITH ("L"+"H") AND ("W"+"H") LESS THEN OR EQUAL TO 20. FOR BOXES WITH EITHER OF THESE CALCULATIONS GREATER THAN 20, A SPECIAL DESIGN IS REQUIRED.

CONCRETE

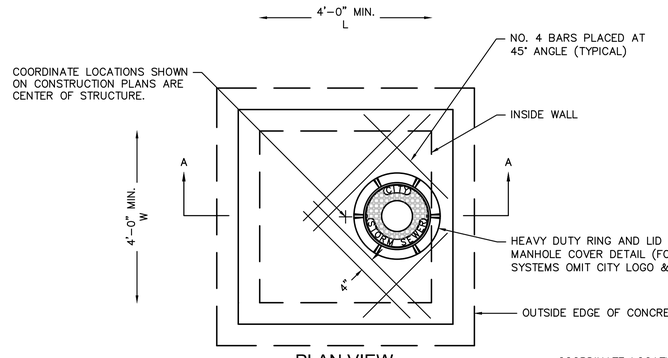
5. CONCRETE USED IN THIS WORK SHALL BE KCMMB4K, AS APPROVED BY THE KANSAS CITY METROPOLITAN MATERIALS BOARD, AND SHALL MEET THE REQUIREMENTS OF THE CITY MUNICIPAL CODE.
6. CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR STATE ROAD AND BRIDGE CONSTRUCTION, KANSAS DEPARTMENT OF TRANSPORTATION, LATEST EDITION, EXCEPT AS MODIFIED IN THE CITY MUNICIPAL CODE.
7. INLET FLOORS SHALL BE SHAPED WITH NON-REINFORCED CONCRETE INVERTS TO PROVIDE SMOOTH FLOW.
8. BEVEL ALL EXPOSED EDGES WITH 3/4" TRIANGULAR MOLDING.

REINFORCING STEEL

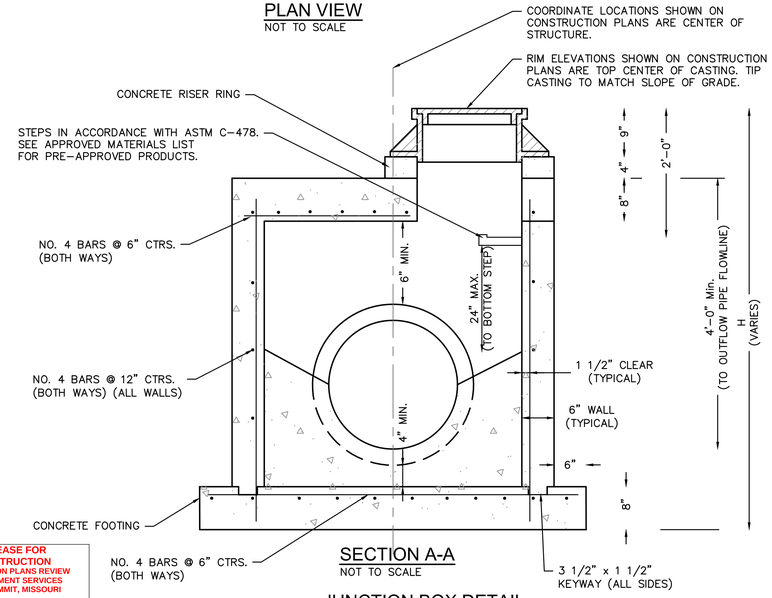
9. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 60 AS PER ASTM A615, AND SHALL BE BENT COLD.
10. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF +/- 1/8" SHALL BE PERMITTED.
11. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
12. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
13. 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.

CONSTRUCTION

14. 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.
15. PIPE CONNECTIONS TO PRE-CAST STRUCTURES SHALL HAVE A MINIMUM OF 6" OF CONCRETE AROUND THE ENTIRE PIPE WITHIN 2' OF THE STRUCTURE.
16. MATERIAL SELECTION AND COMPACTION REQUIREMENTS FOR BACKFILL AROUND STRUCTURES SHALL BE AS SPECIFIED IN THE MANUAL OF INFRASTRUCTURE STANDARDS, AS PROMULGATED BY THE CITY ENGINEER.



PLAN VIEW
NOT TO SCALE



SECTION A-A
NOT TO SCALE

JUNCTION BOX DETAIL
NOT TO SCALE

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

10/21/2021

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SPECIAL NOTICES

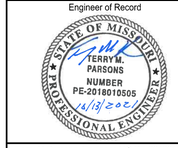
Mid-Continent Public Library
CONSTRUCTION DOCUMENTS

LEE'S SUMMIT LIBRARY

150 NW Oldham Parkway
LEE'S SUMMIT, MO 64081
JACKSON COUNTY

PACKAGE 15

Engineer of Record



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Revision No.	Description	Date

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.
C8.5
STANDARD DETAILS

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