

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 HAMBLIN ROAD
LEE'S SUMMIT, MO 64081
816.969.1900

BUILDING INSPECTIONS

220 SE GREEN
LEE'S SUMMIT, MO 64063
816.969.1200

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

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

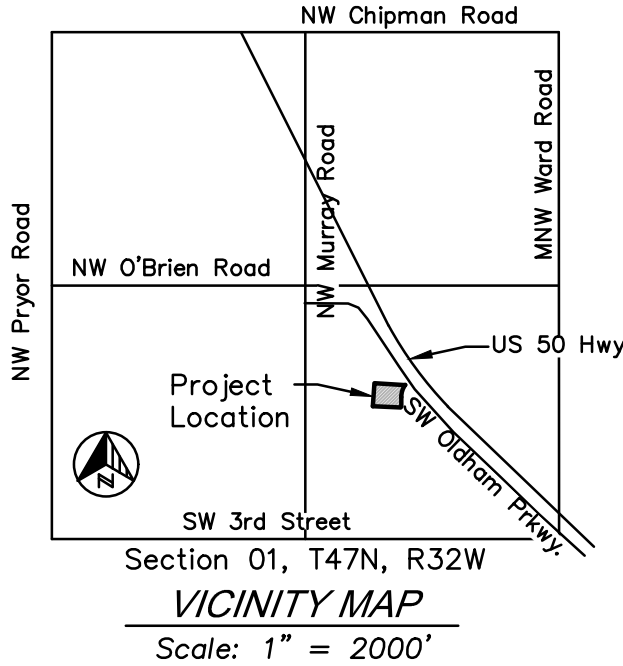


Sheet List Table	
Sheet Number	Sheet Title
C1.0	COVER SHEET
C1.1	GENERAL NOTES
C1.2	DEMOLITION PLAN
C2.0	SITE DIMENSION PLAN
C3.0	GRADING PLAN
C3.1	GRADING DETAILS
C3.2	GRADING DETAILS
C3.3	GRADING DETAILS
C3.4	GRADING DETAILS
C4.0	UTILITY PLAN
C5.0	STORM SEWER PLAN & PROFILE
C5.1	STORM SEWER PLAN & PROFILE
C5.2	STORM SEWER PLAN & PROFILE
C5.3	STORM SEWER PLAN & PROFILE
C5.4	STORM SEWER PLAN & PROFILE
C6.0	DRAINAGE PLAN
C6.1	DRAINAGE CALCULATIONS
C7.1	EROSION CONTROL PLAN
C7.2	EROSION CONTROL DETAILS
C7.3	EROSION CONTROL DETAILS
C8.0	STANDARD DETAILS
C8.1	STANDARD DETAILS
C8.2	STANDARD DETAILS
C8.3	STANDARD DETAILS
C8.4	STANDARD DETAILS
C8.5	STANDARD DETAILS

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)

ADDED
SHEET



BENCHMARKS

OA Bench Mark #1:
ELEVATION=973.75' (NAVD'88)
SET PUNCH MARK IN CHISELED "C" 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 E 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.

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



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.

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 allow, authorize 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 whenever & wherever used, and the
owner of the seal shall authenticate this seal 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



Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

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

© Copyright 2019 - Sapp Design Associates, Architects, P.C.

USER: bkimmich

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNC\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\C_COV01_0180330.dwg
DATE: Oct 14, 2021 7:25am XREFS: C:\TBLK_0180330

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Streets\GNCV\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\VC_COV01_0180330.dwg
DATE: Oct 14, 2021 7:25am USER: bkimlich XREFS: C:\BLK_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



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.

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

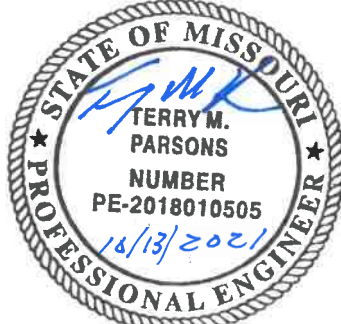
In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility 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 this signature whenever & 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



Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

Olsson
Missouri State Certificate of Authority #001592

Revision No. Description Date

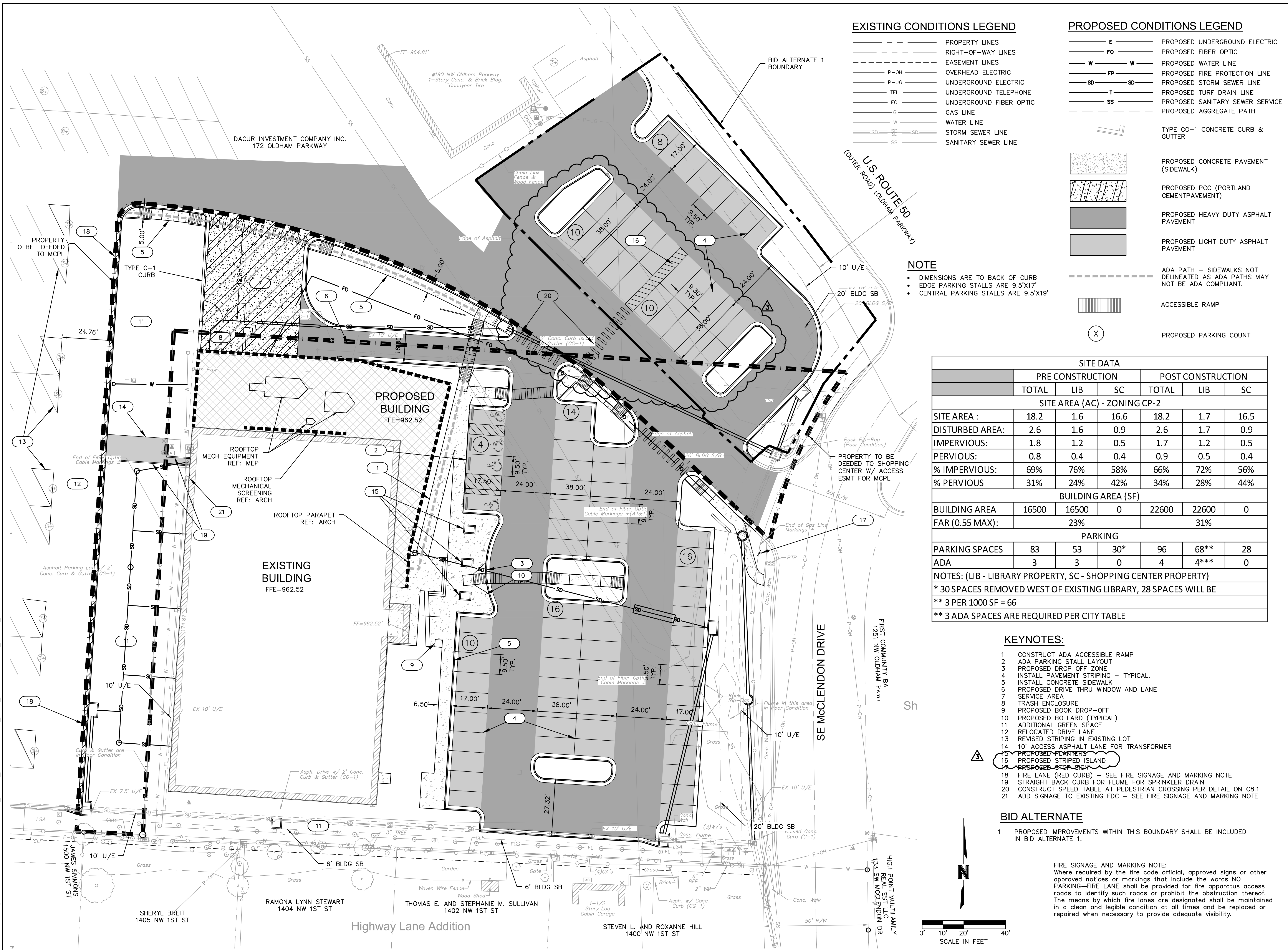
Project No. B18-0330 Date 10.12.2020 Drawn HMO

Drawing No.

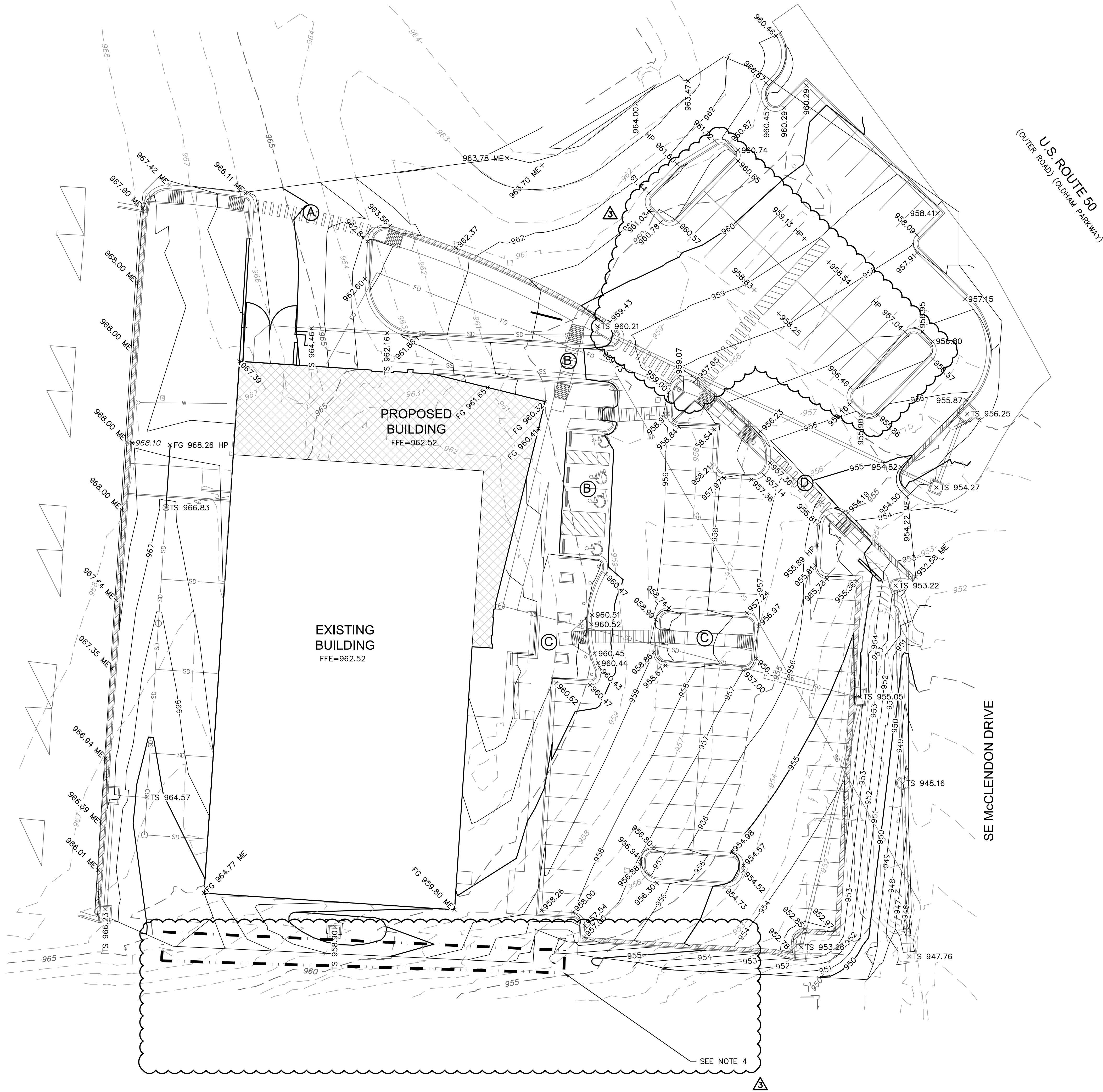
C1.1

GENERAL NOTES

© Copyright 2019 - Sapp Design Associates, Architects, P.C.



DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNC\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\VC_GRD01_0180330.dwg
DATE: Oct 14, 2021 7:26am XREFS: C:\TBLK_0180330 C_XBASE_0180330 C_PBASE_0180330 C_PSURF_0180330 USER: bkirmich



- LEGEND**
- PROPERTY LINE
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - RAMP
 - CONCRETE CURB & GUTTER TYPE "CG-1"
 - CONCRETE CURB & GUTTER TYPE "CG-1 DRY"
 - CONCRETE CURB TYPE "C-1" MODIFIED
 - GRADING DETAIL

NOTES:

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

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

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 & whenever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

LEE'S SUMMIT LIBRARY

Mid-Continent Public Library
CONSTRUCTION DOCUMENTS

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

PACKAGE
15

Engineer of Record



Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

Olsson
Missouri State Certificate of Authority #001592

Revision No.	Description	Date
02	ASI01	06.26.21
03	ASI02	08.30.21

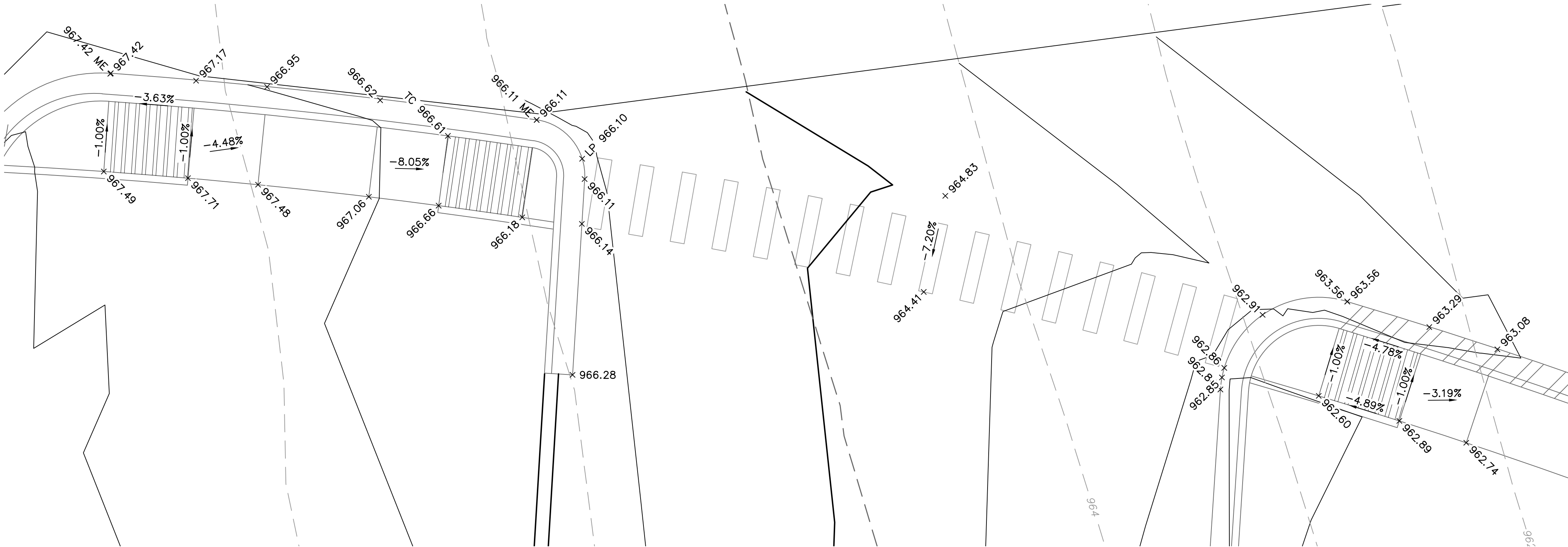
Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

C3.0
GRADING PLAN

© Copyright 2019 - Sapp Design Associates, Architects, P.C.

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNC\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\VC_GRD05_0180330.dwg
DATE: Oct 14, 2021 7:27am XREFS: C:\TBLK_0180330 C_XBASE_0180330 C_PBASE_0180330 C_PSURF_0180330 USER: bkimmich



GRADING DETAIL A

SCALE: 1"=5'

LEGEND

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

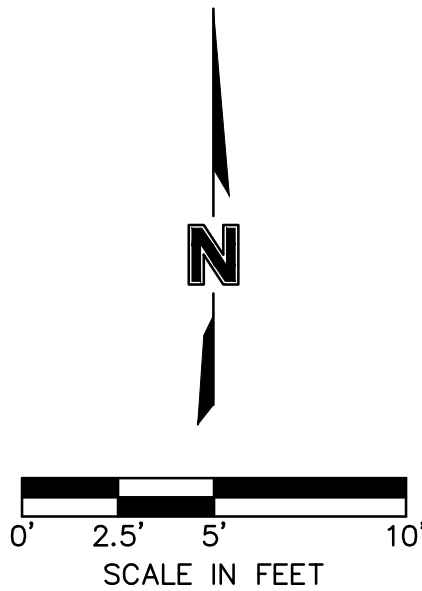
NOTES:

- CONTRACTOR TO REMOVE AND REPLACE ALL SIDEWALK NECESSARY FOR CONNECTION TO EXISTING.
- ALL ADA ACCESSIBLE SIDEWALK CROSS SLOPES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% AND MAXIMUM LONGITUDINAL SLOPE OF 5.00%.
- 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



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 whenever & 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



Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

Olsson
Missouri State Certificate of Authority #001592

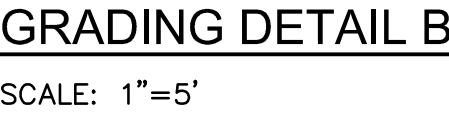
Revision No.	Description	Date
02	ASI01	06.26.21

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

C3.1
GRADING DETAILS

© Copyright 2019 - Sapp Design Associates, Architects, P.C.

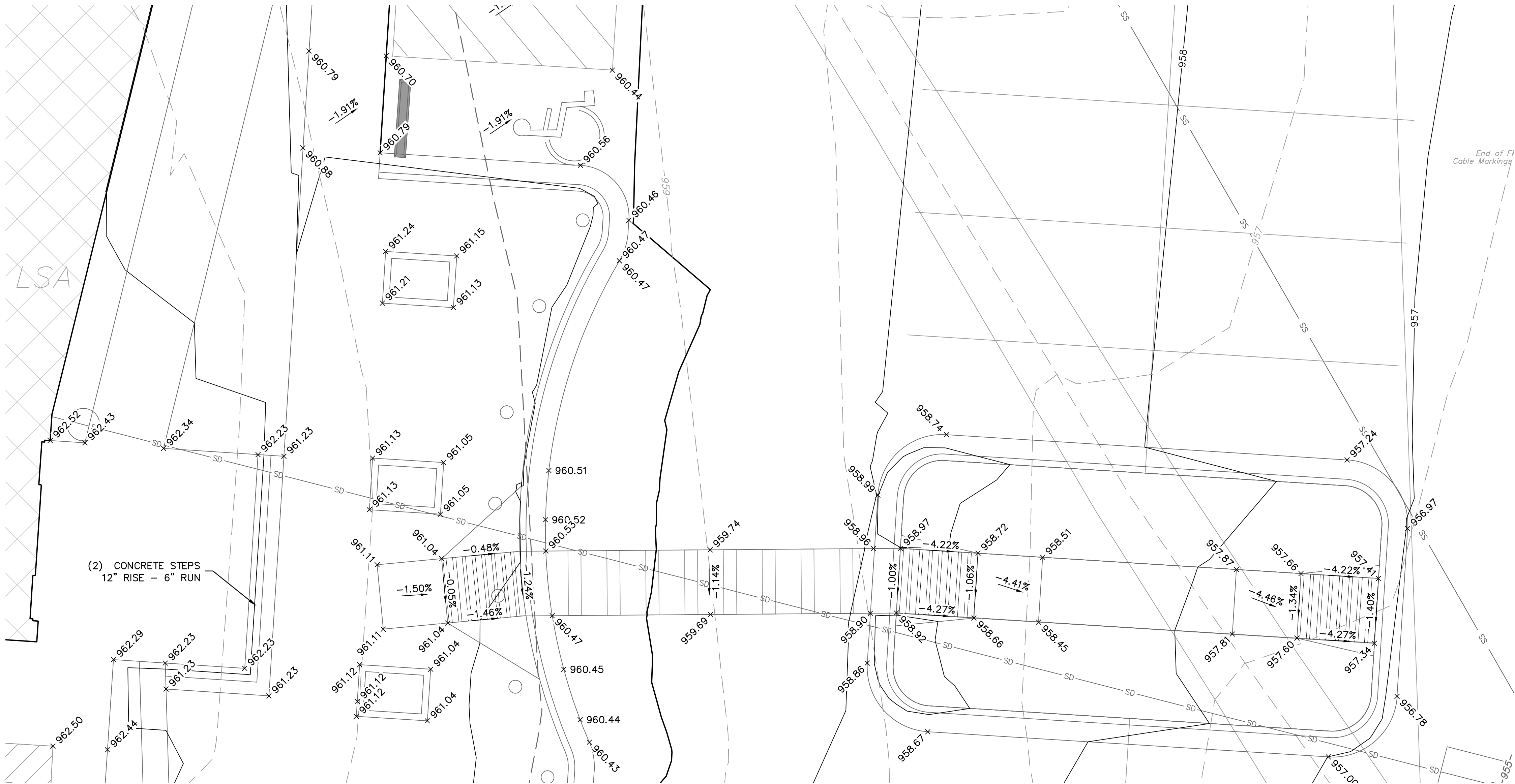


A north arrow pointing upwards with the letter 'N' in the center. Below it is a scale bar labeled 'SCALE IN FEET' with markings at 0', 2.5', 5', and 10'.

CONCRETE CURB
TYPE "C-1" MODIFIED

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

© Copyright 2019 - Sapp Design Associates, Architects, P.C.



GRADING DETAIL C
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

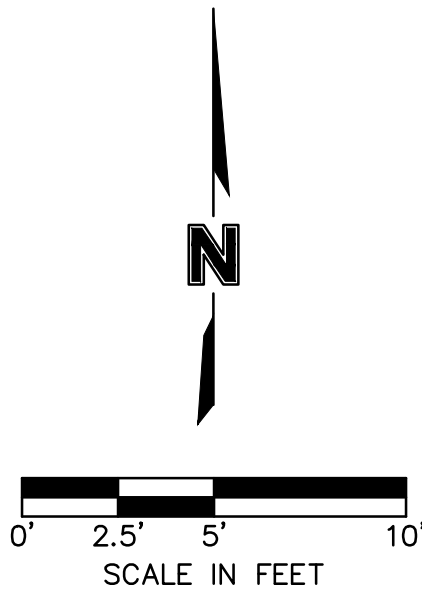
NOTES:

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



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

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & 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



Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

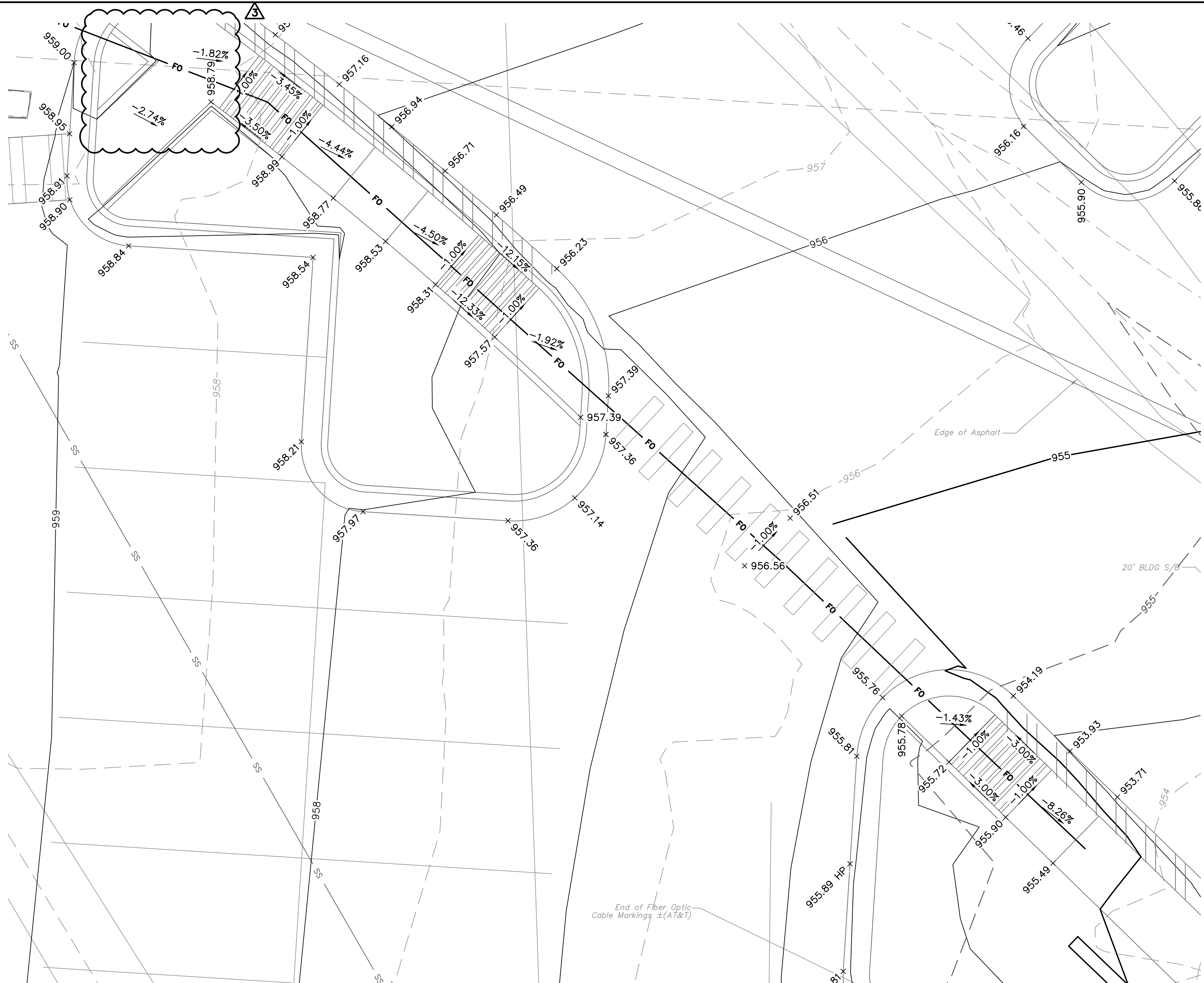
Olsson
Missouri State Certificate of Authority #001592

Revision No.	Description	Date
02	ASI01	06.26.21

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

C3.3
GRADING DETAILS



GRADING DETAIL D

SCALE: 1"=5'

LEGEND

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

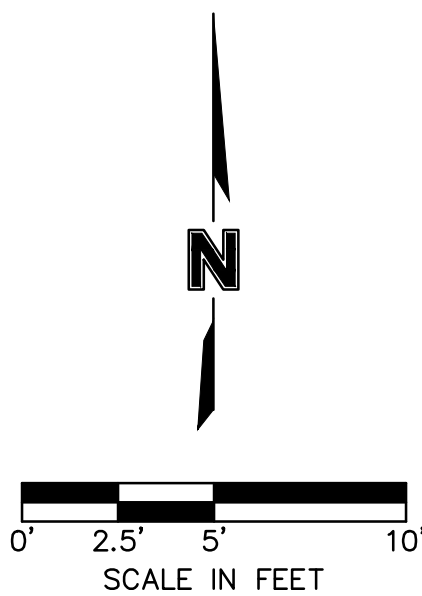
NOTES:

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



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 whenever & 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



Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

Olsson
Missouri State Certificate of Authority #001592

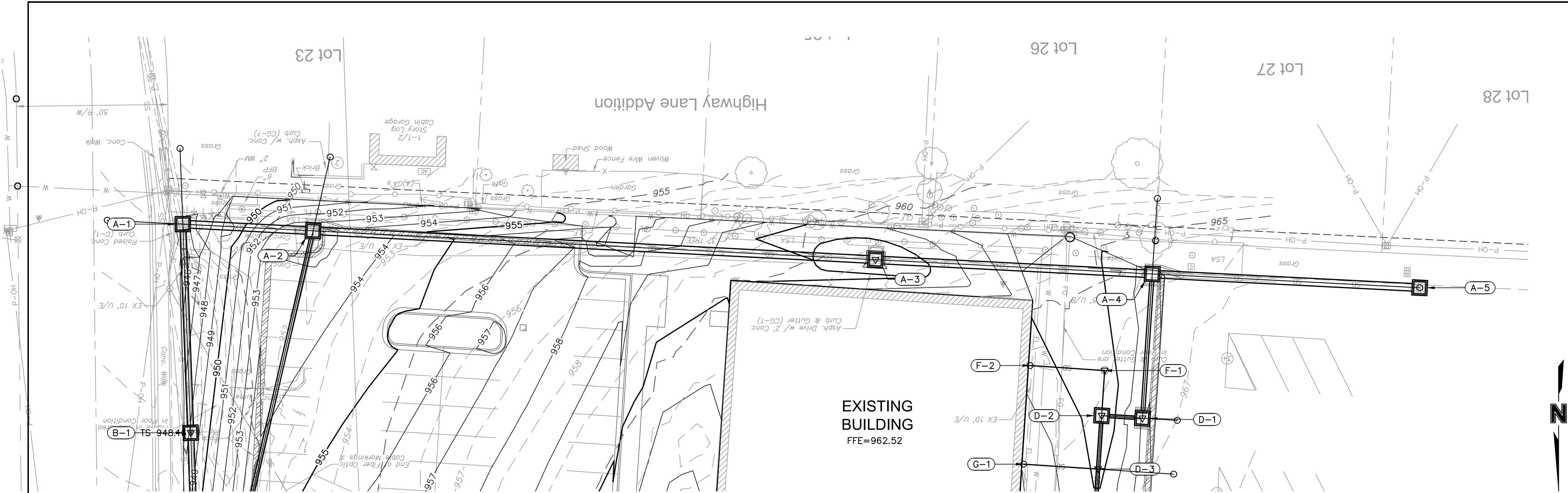
Revision No.	Description	Date
02	ASI01	06.26.21
03	ASI02	08.30.21

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

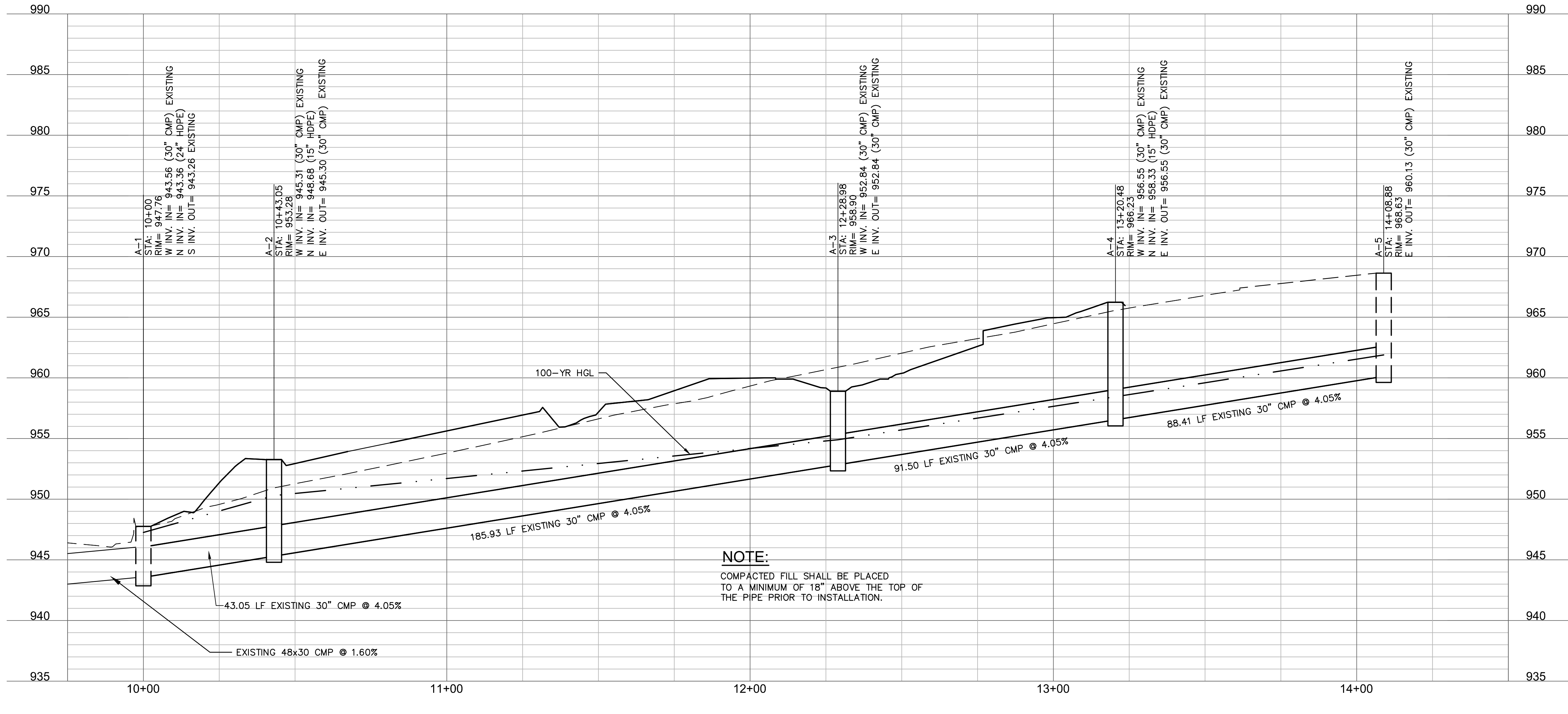
C3.4

GRADING DETAILS

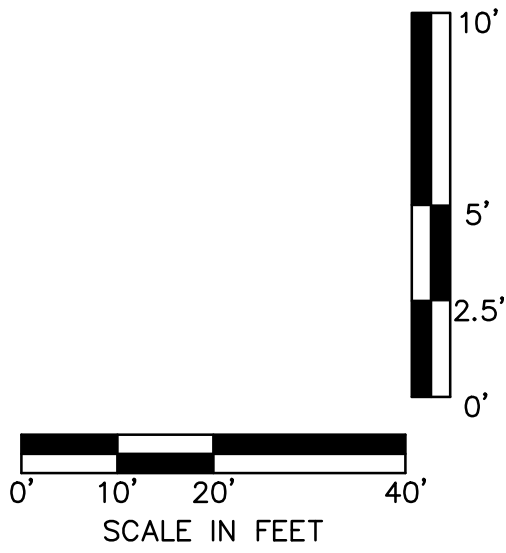


STRUCTURES	
ID	DESCRIPTION
A-1	EXISTING 5'X3' AREA INLET RECONSTRUCT TO AREA INLET WITH THROAT OPENING (N.) 10+00, 0.00' STORM LINE A RIM= 947.76 INV IN = 943.56 (30" CMP) EXISTING INV IN = 943.36 (24" HDPE) EXISTING N: 1000826.723; E: 2817077.444
A-2	INSTALL STD. 5'X4' NON-SETBACK CURB INLET 10+43.05, -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.



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 allow, authorize 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 whenever & wherever used, and the owner of the seal shall authorize its use 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

Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olson.com

Olsson
Missouri State Certificate of Authority #001592

Revision No.	Description	Date
02	ASI01	06.26.21
03	ASI02	08.30.21

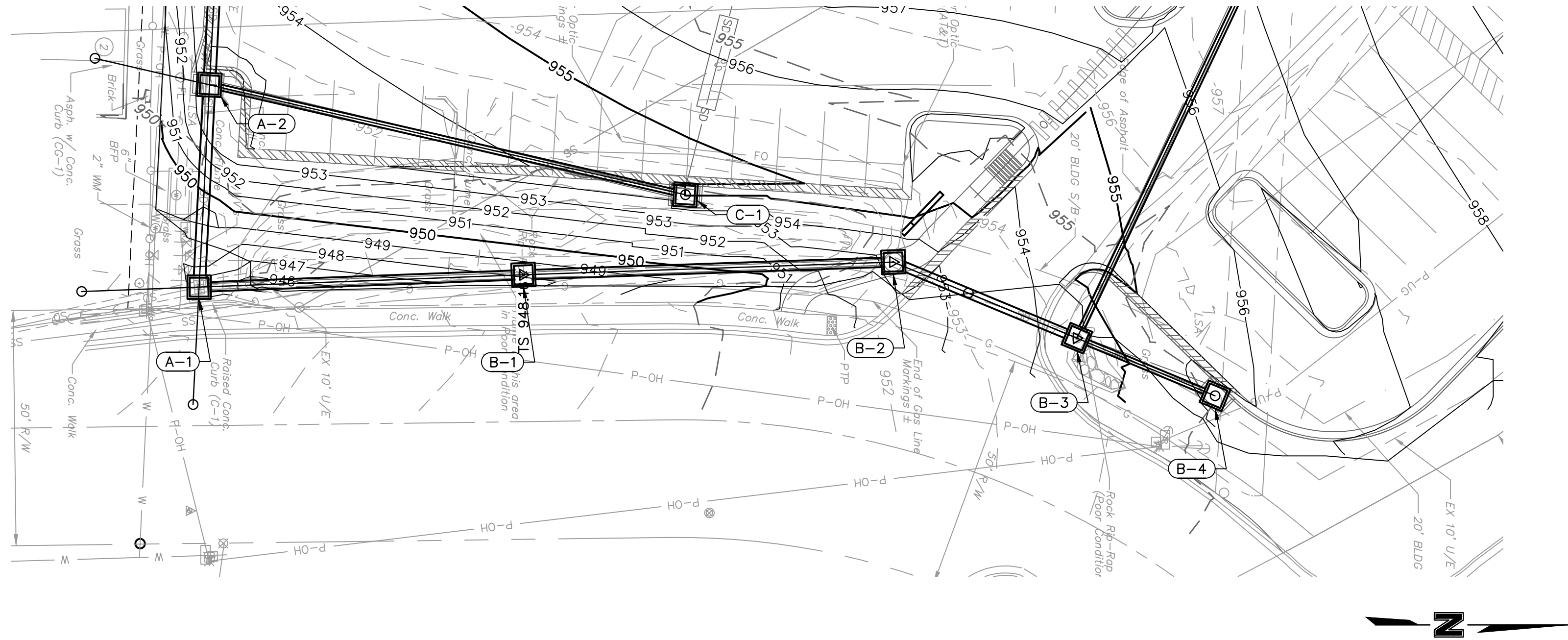
Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

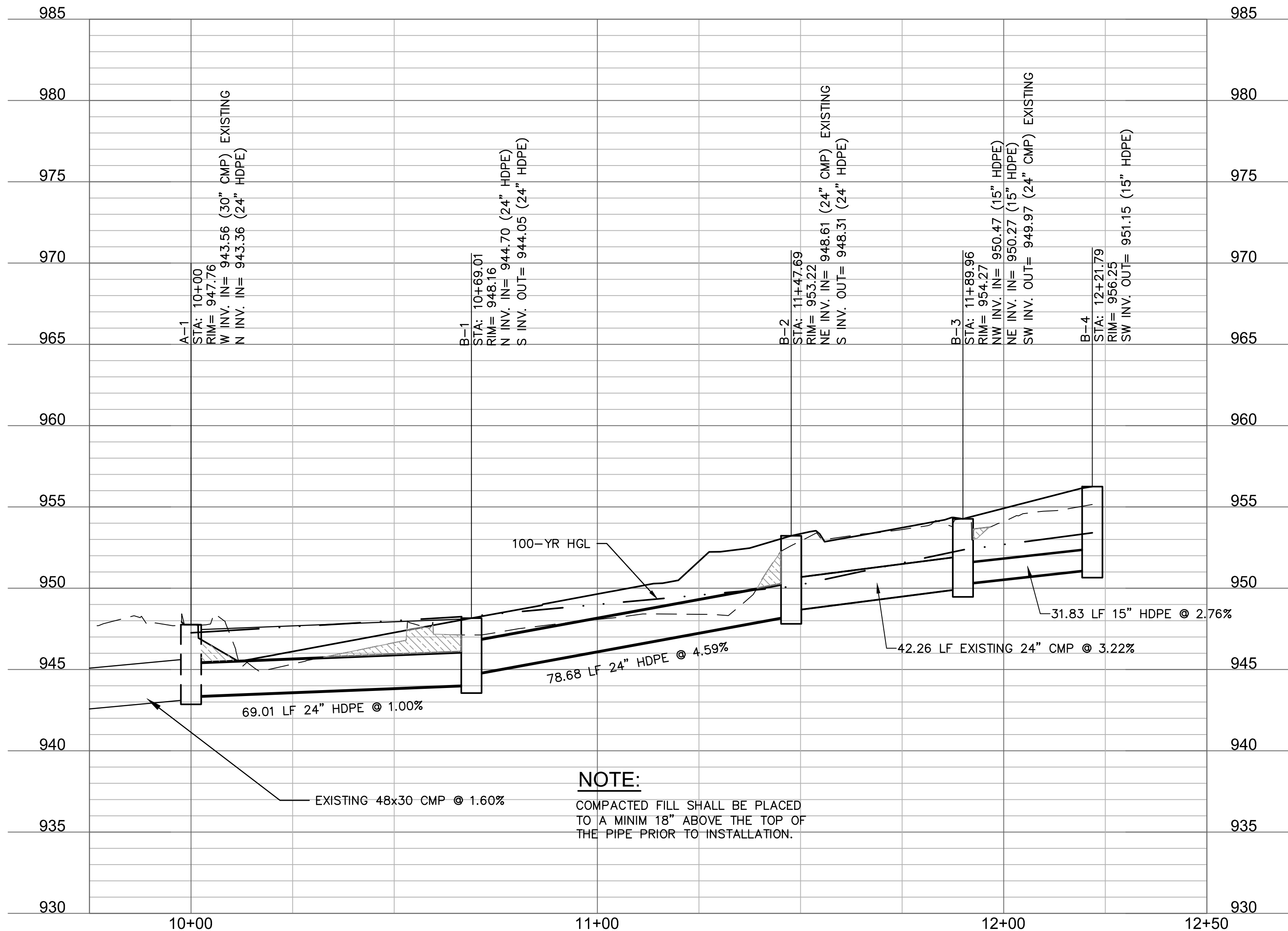
C5.0

STORM SEWER PLAN & PROFILE

© Copyright 2021 by Olsson Engineering, Inc. All rights reserved. No part of this document may be reproduced without written permission from Olsson Engineering, Inc.



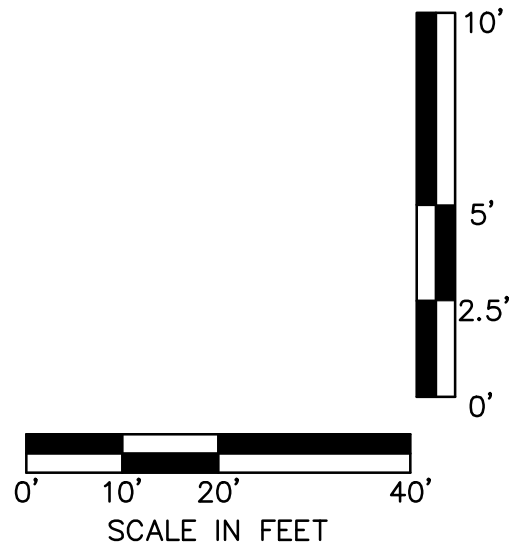
STORM LINE B (9+75 - 12+50)



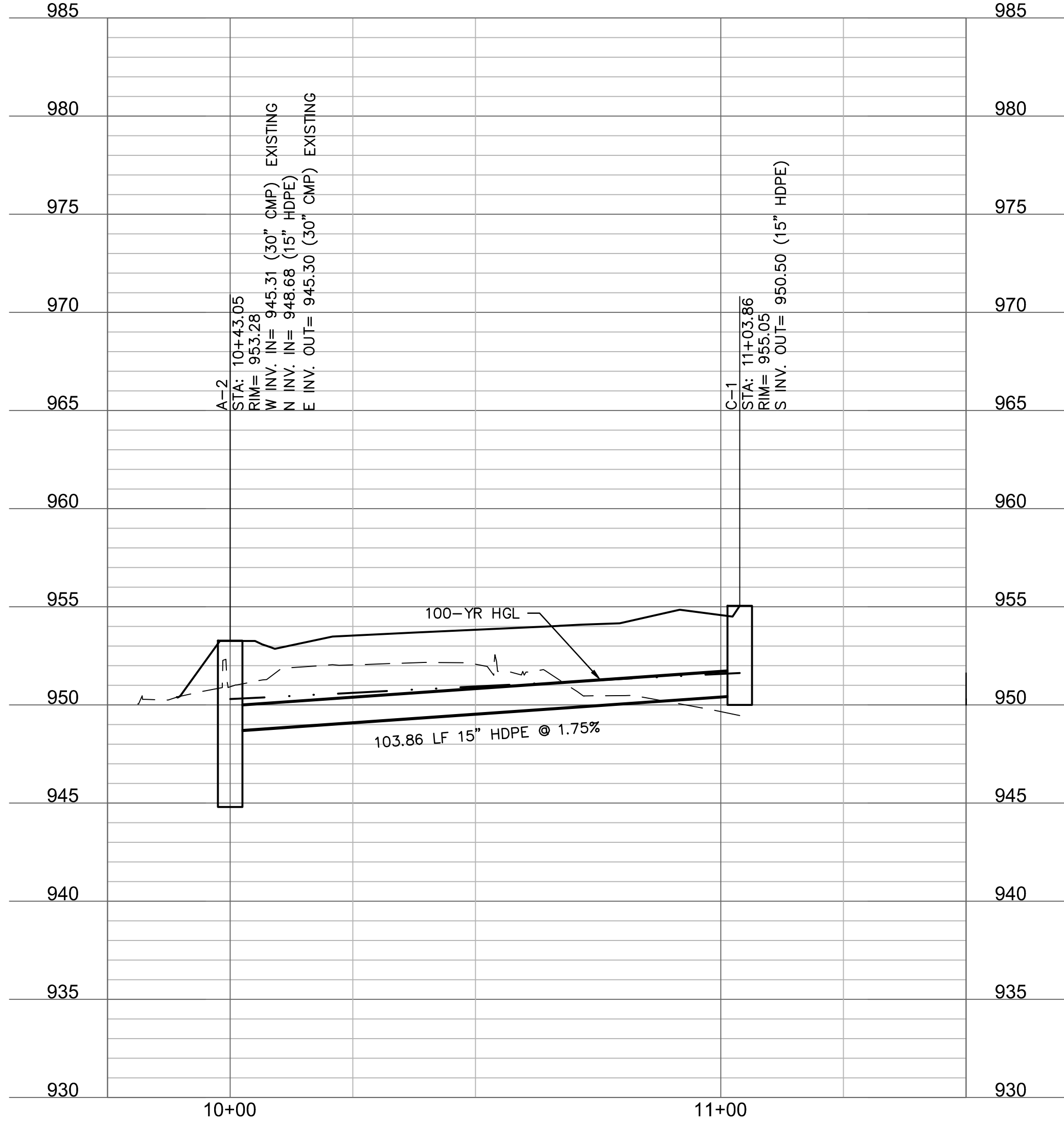
NOTE:
COMPACTED FILL SHALL BE PLACED
TO A MIN 18" ABOVE THE TOP OF
THE PIPE PRIOR TO INSTALLATION.

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) INV IN = 943.36 (24" HDPE) N: 1000826.723; E: 2817077.444
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



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



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 allow, authorize 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 whenever & wherever used, and the owner of the seal shall authorize this seal 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

Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

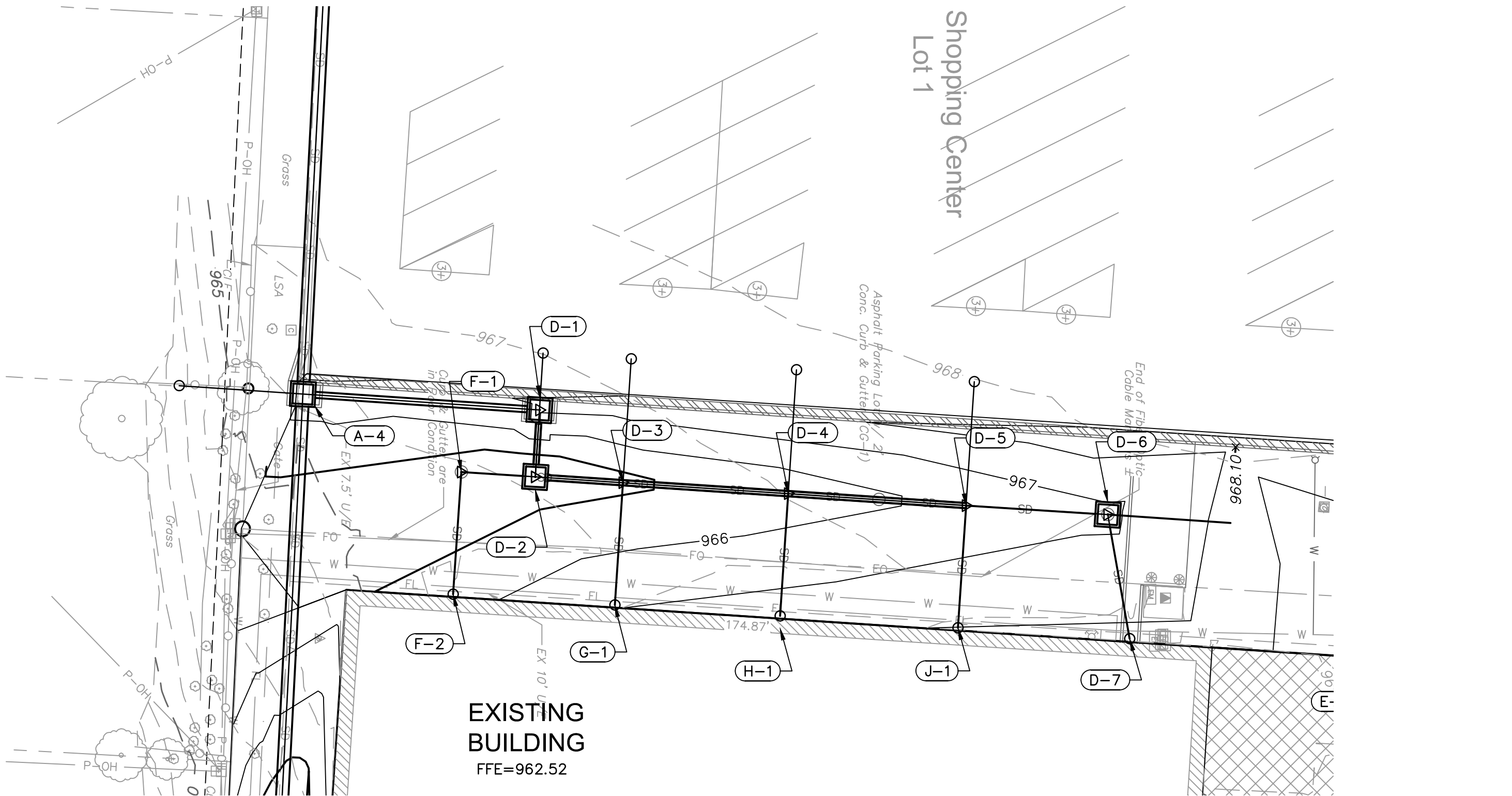
Olsson
Missouri State Certificate of Authority #001592

Revision No.	Description	Date
02	ASI01	06.26.21
03	ASI02	08.30.21

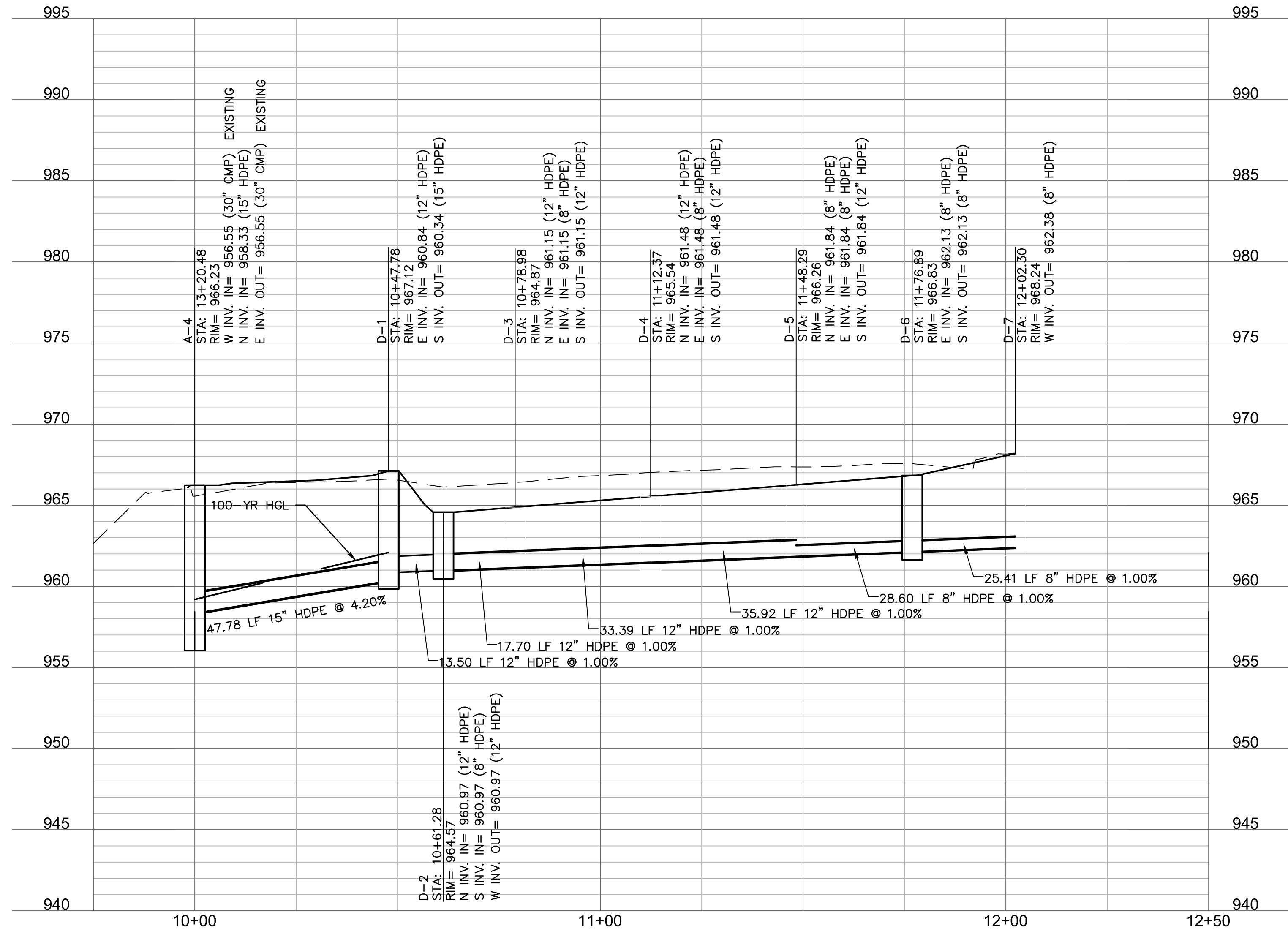
Project No. B18-0330	Date 10.12.2020	Drawn HMO
-------------------------	--------------------	--------------

Drawing No.
C5.1
STORM SEWER PLAN &
PROFILE

© Copyright 2021 by Olsson Engineering, Inc. All rights reserved.

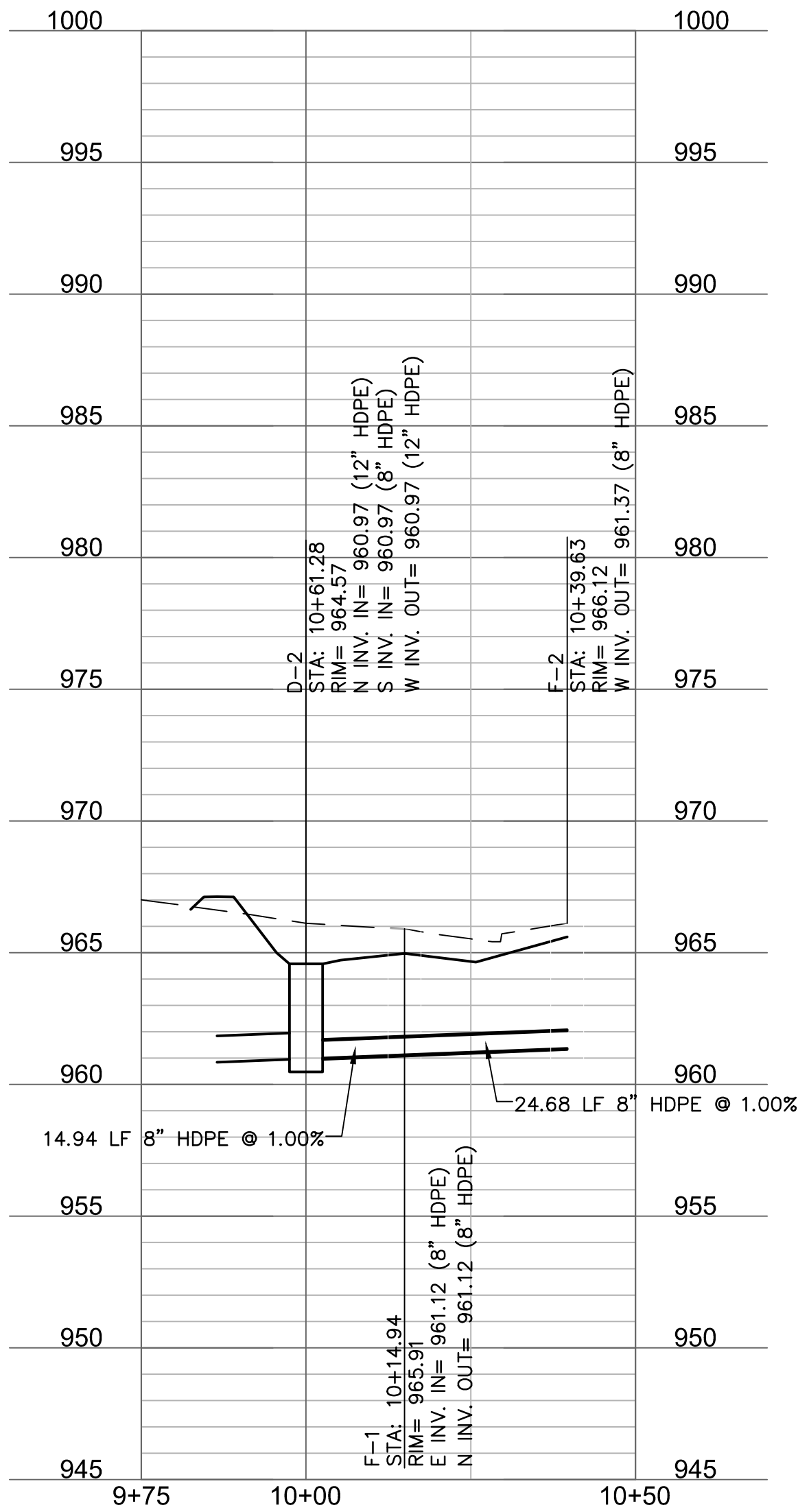


STORM LINE D (9+75 - 12+50)



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

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



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

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 whenever & 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

11/13/2020

PROFESSIONAL ENGINEER

Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

Olsson
Missouri State Certificate of Authority #001592

Revision No.	Description	Date
02	ASIO1	06.26.21

Project No. B18-0330	Date 10.12.2020	Drawn HMO
-------------------------	--------------------	--------------

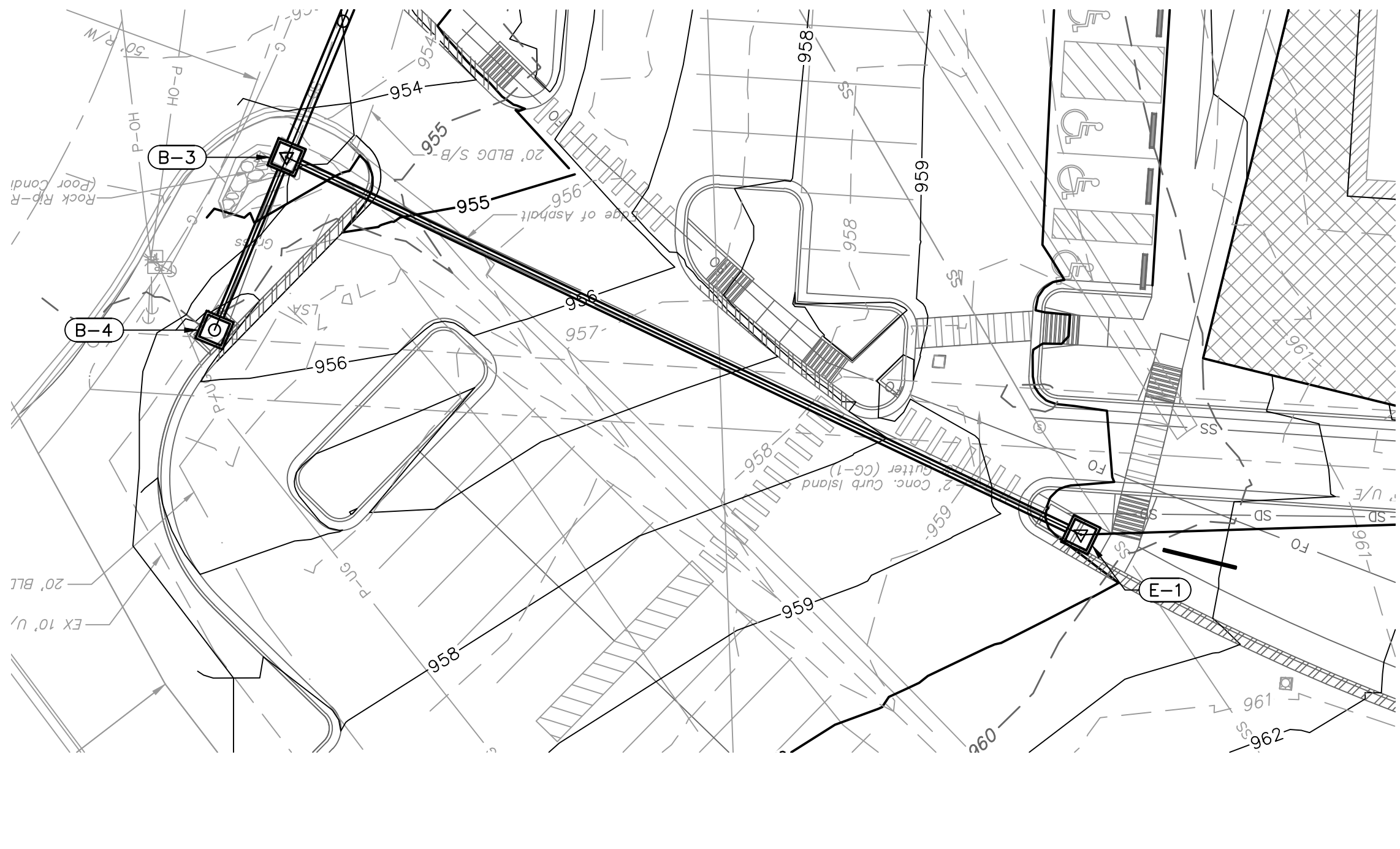
Drawing No.

C5.2

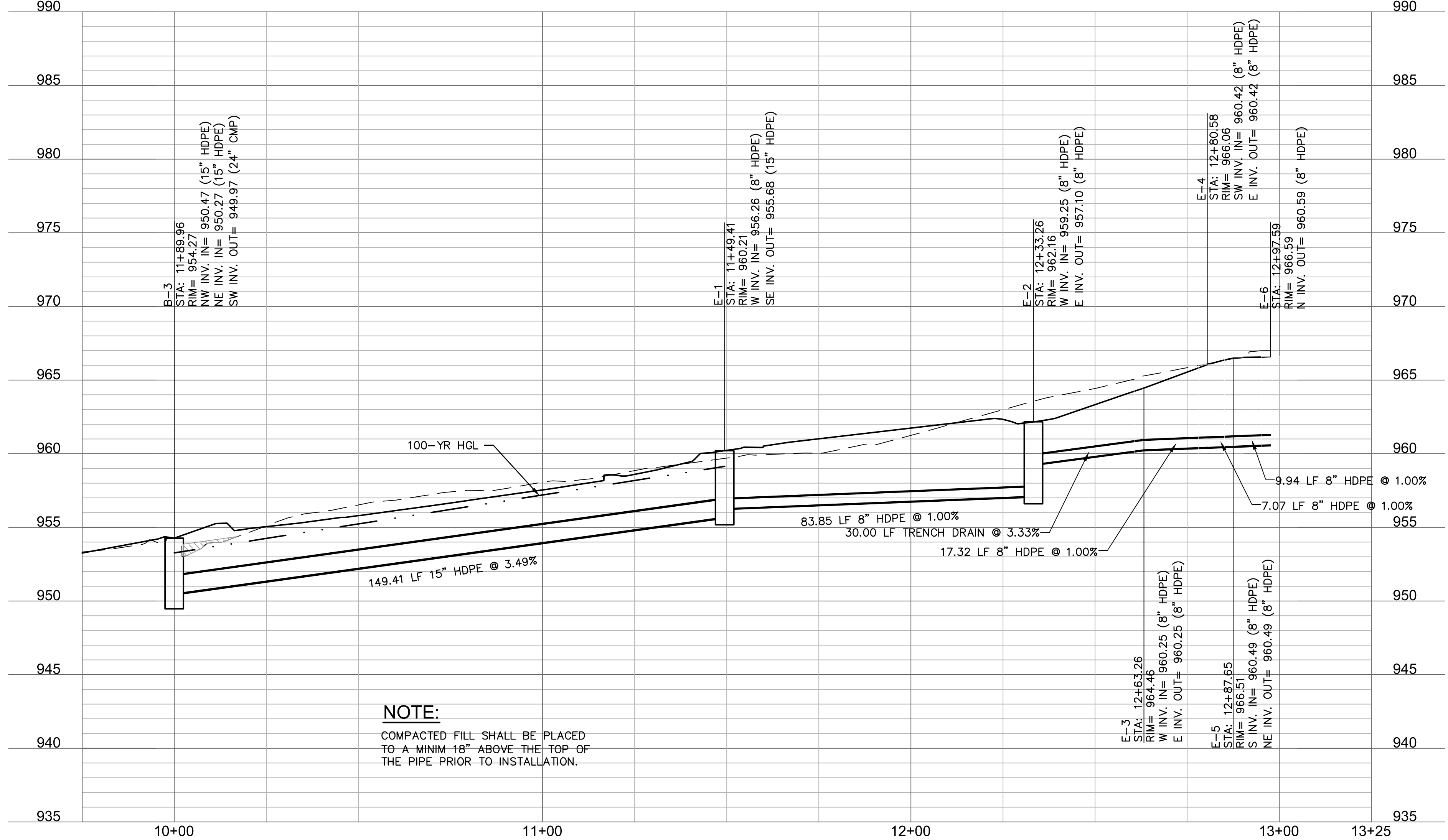
STORM SEWER PLAN & PROFILE

© Copyright 2021 by Olsson Engineering, Inc. All rights reserved.

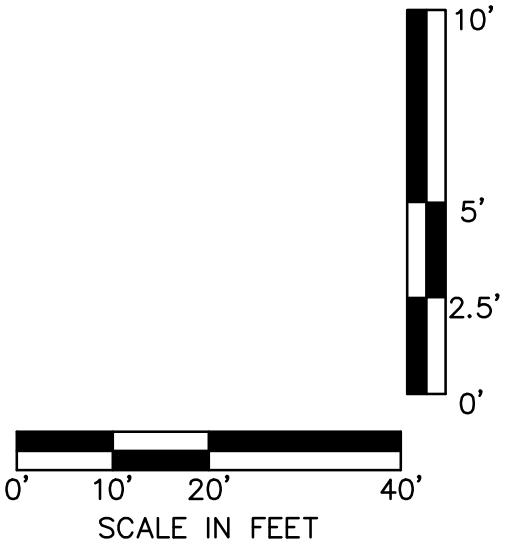
DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNC\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\VC_STM01_0180330.dwg
DATE: Oct 14, 2021 7:29am XREFS: C:\TBLK_0180330 C:\PBASE_0180330 C:\PSURF_0180330 C:\PSTM_0180330 USER: bkimmich



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

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 allow, authorize 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 whenever & 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

Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olson.com

Olsson
Missouri State Certificate of Authority #001592

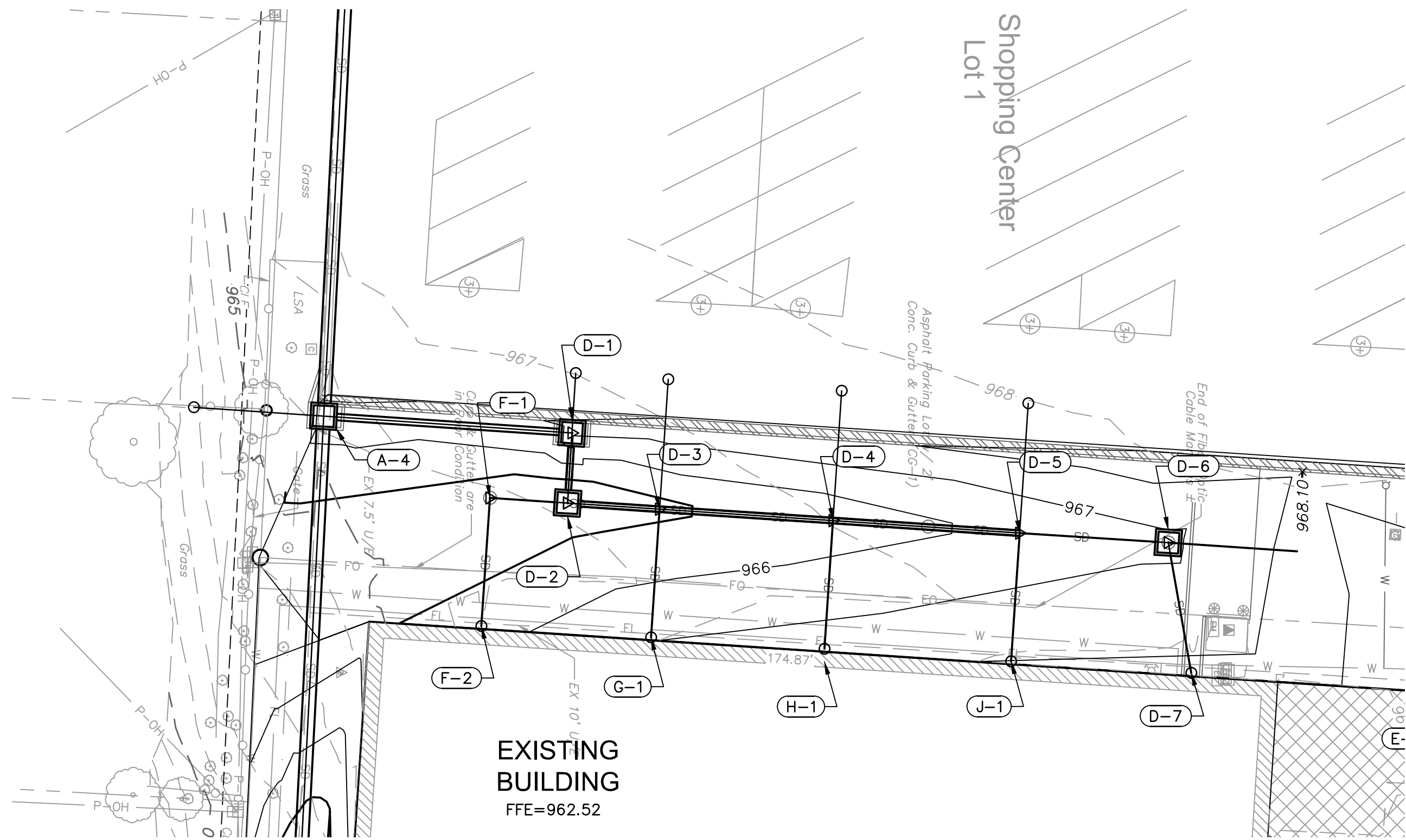
Revision No.	Description	Date
02	ASI01	06.26.21

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.
C5.3
STORM SEWER PLAN &
PROFILE

© Copyright 2021 by Olsson Engineering, Inc. All rights reserved.

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNC\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\G-STMO1_0180330.dwg
DATE: Oct 14, 2021 7:30am XREFS: C:\BLK_0180330 C:\BASE_0180330 C:\PSURF_0180330 C:\PSTM_0180330 USER: bkimmich

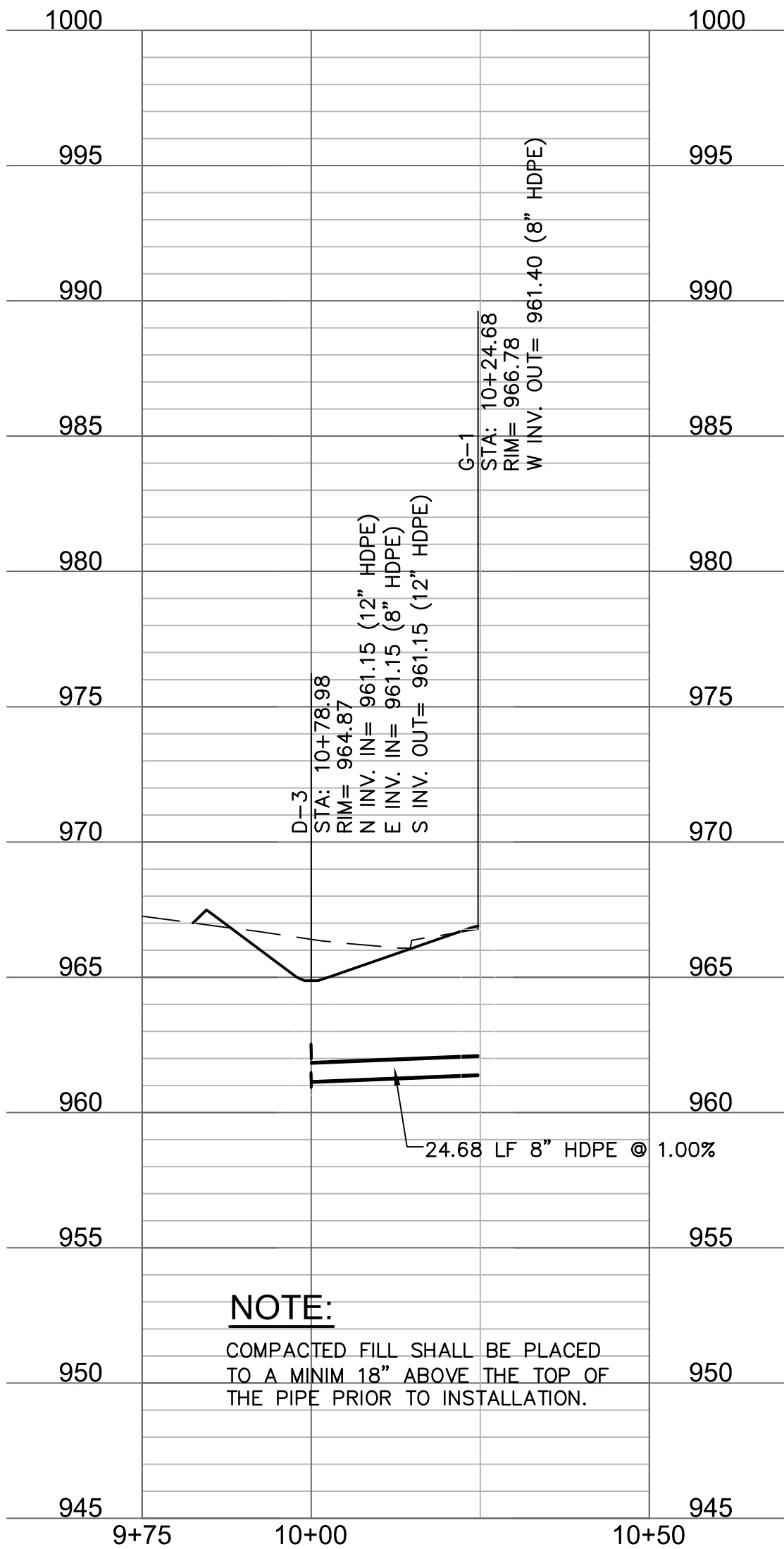


STRUCTURES	
ID	DESCRIPTION
D-3	INSTALL 12" X 12" X 8" HDPE TEE 10+78.98, 0.00' STORM LINE D RIM= 964.87 INV IN = 961.15 (12" HDPE) INV IN = 961.15 (8" HDPE) INV OUT = 961.15 (12" HDPE) N: 1000907.681; E: 2816775.260
G-1	CONNECT TO ROOF DRAIN. RE: MEP 10+24.68, 0.00' STORM LINE G RIM= 966.78 INV OUT =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

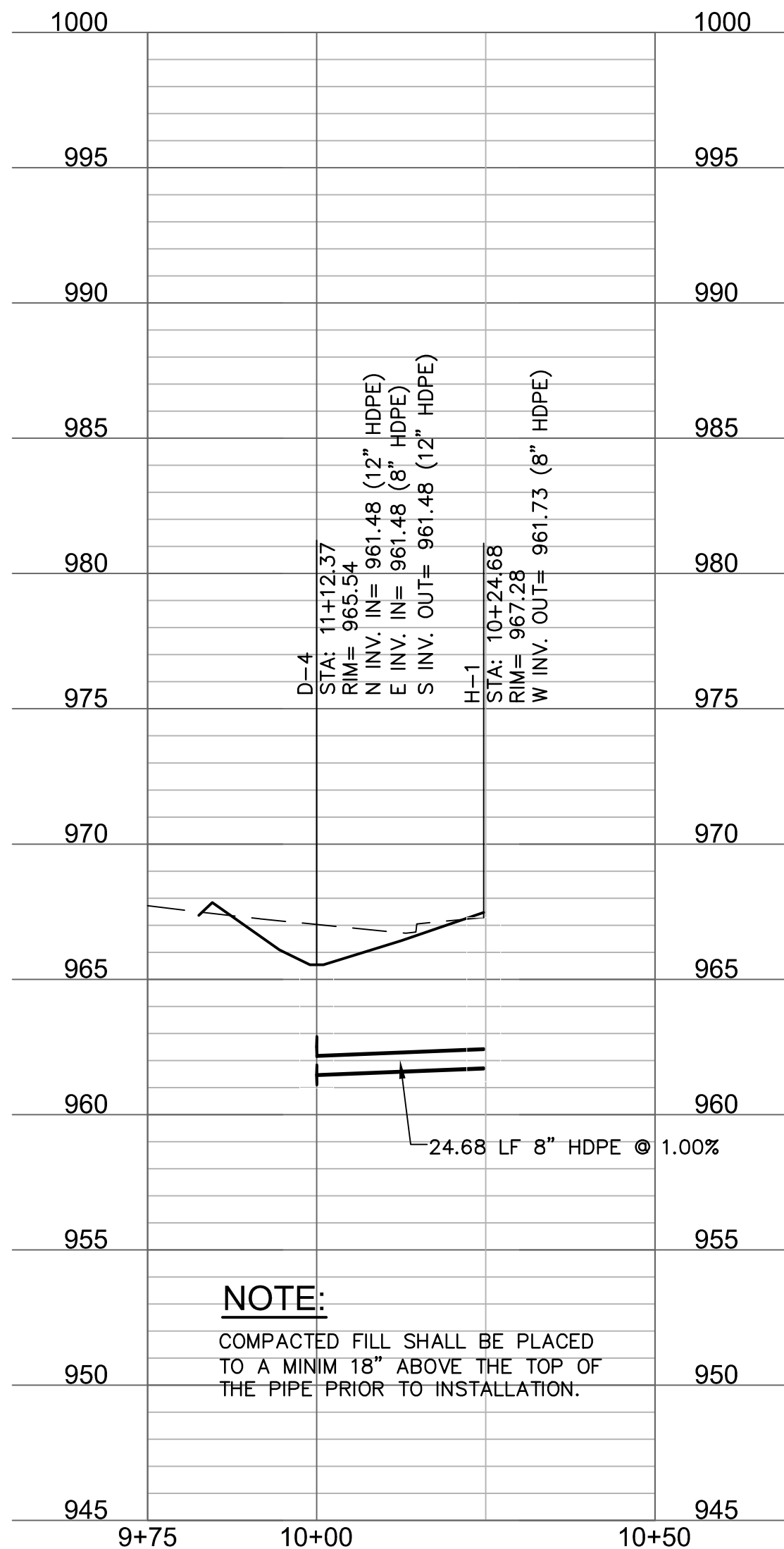
STRUCTURES	
ID	DESCRIPTION
D-4	INSTALL 12" X 12" X 8" HDPE TEE 11+12.37, 0.00' STORM LINE D RIM= 965.54 INV IN = 961.48 (12" HDPE) INV IN = 961.48 (8" HDPE) INV OUT = 961.48 (12" HDPE) N: 1000941.001; E: 2816777.453
H-1	CONNECT TO ROOF DRAIN. RE: MEP 10+24.68, 0.00' STORM LINE H RIM= 967.28 INV OUT =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

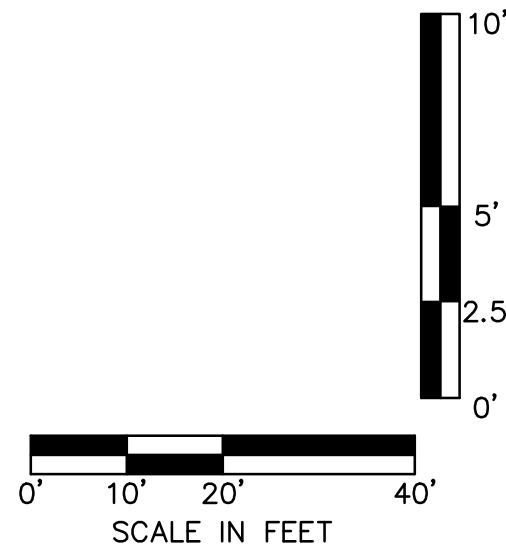
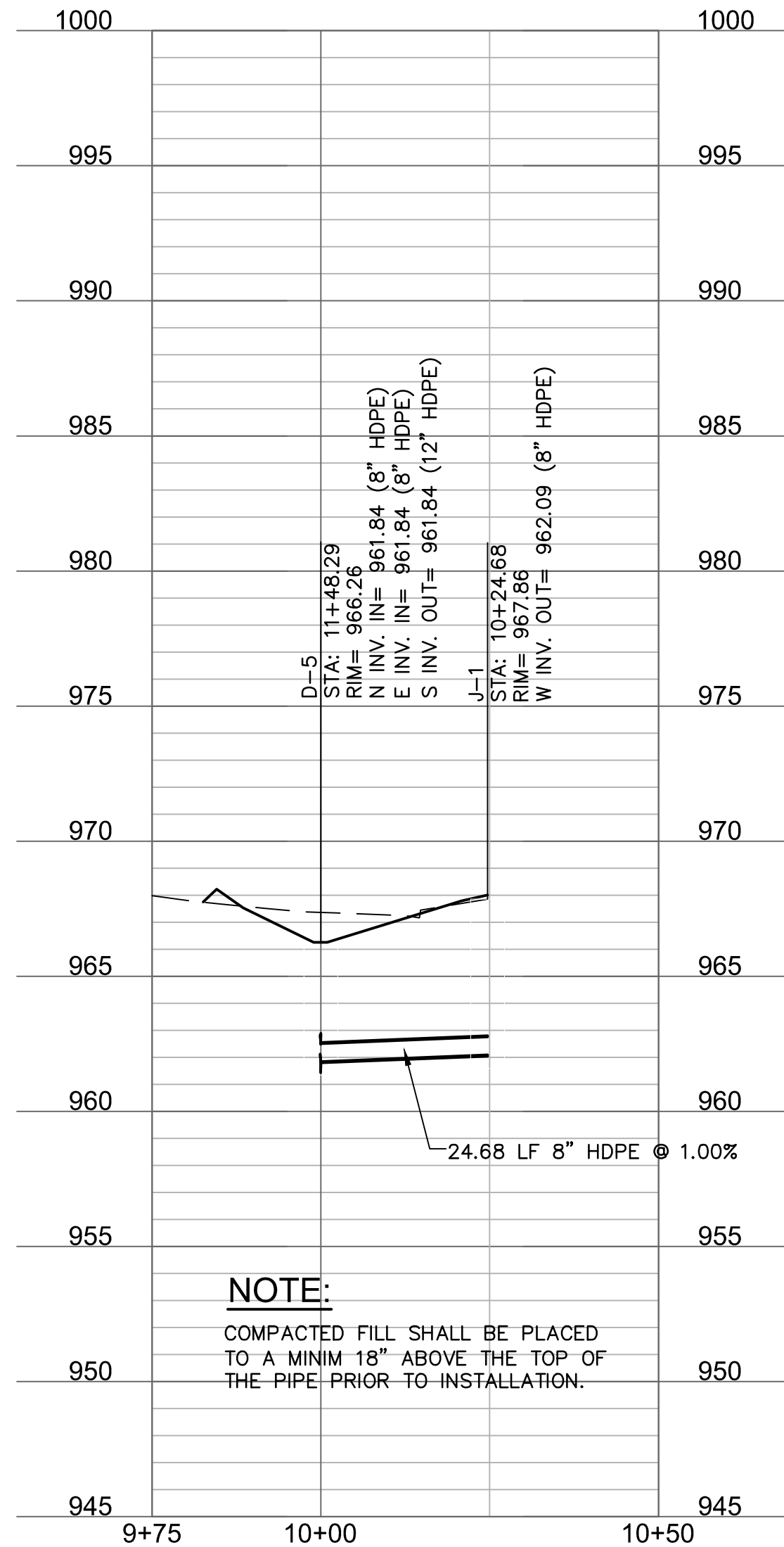
STORM LINE G (9+75 - 10+50)



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



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



**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

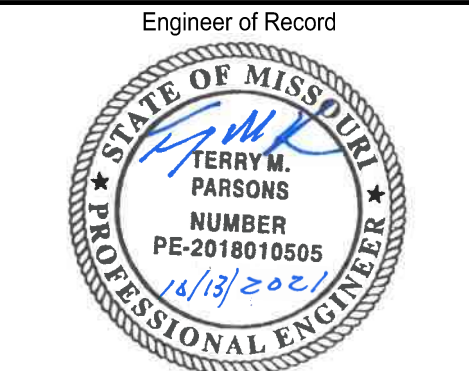
SPECIAL NOTICES

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

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature wherever & whenever used, and the owner of the seal shall authorize its use 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



Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

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

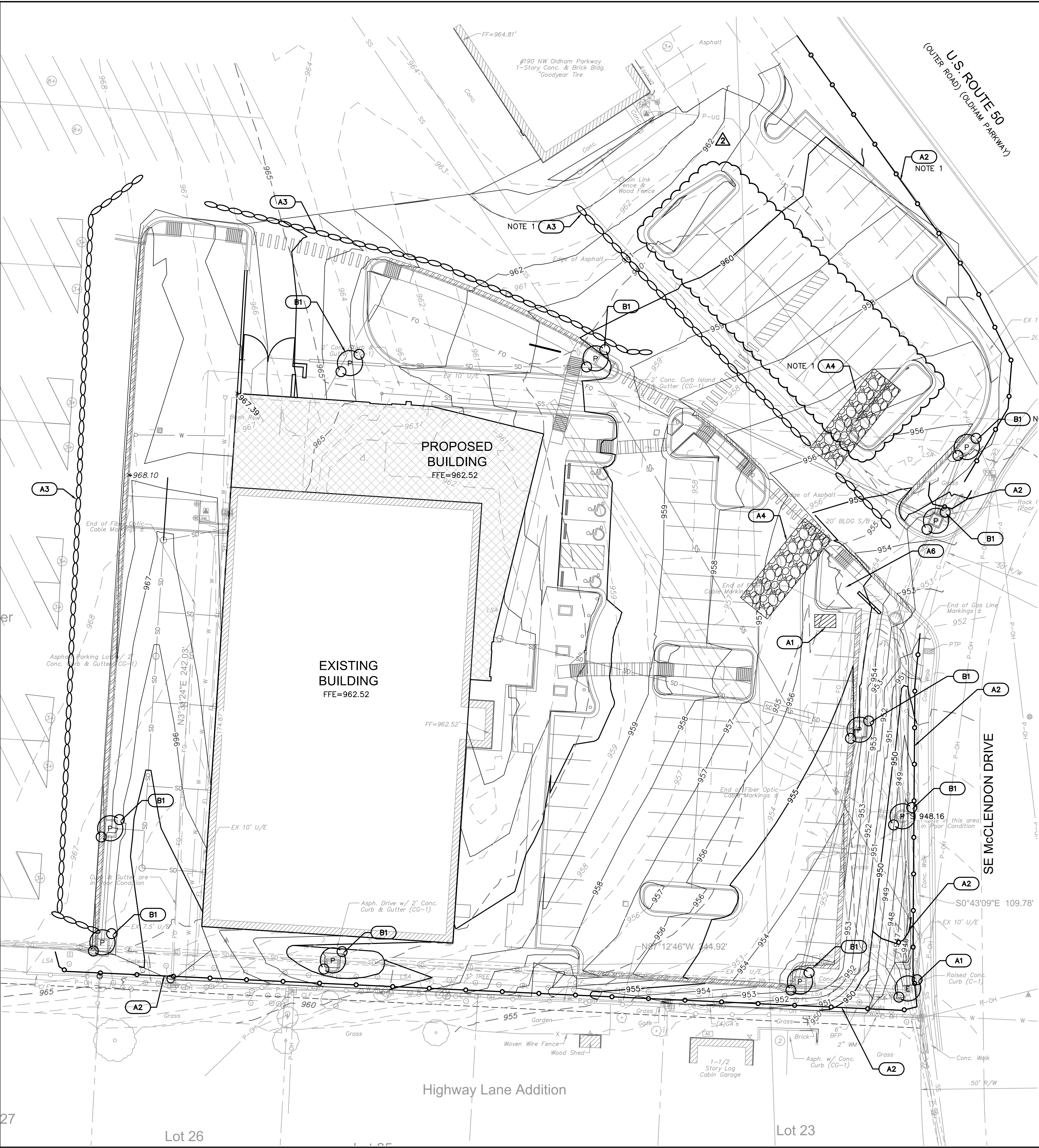
Drawing No.

C5.4
**STORM SEWER PLAN &
PROFILE**

© Copyright 2021 by Olsson Engineering, Inc. All rights reserved.

FORM 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	

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNC\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\G-ERO01_0180330.dwg
DATE: Oct 14, 2021 7:32am XREFS: C:\BTLK_0180330 C:\PBASE_0180330 C:\PSURF_0180330 USER: bkimmich



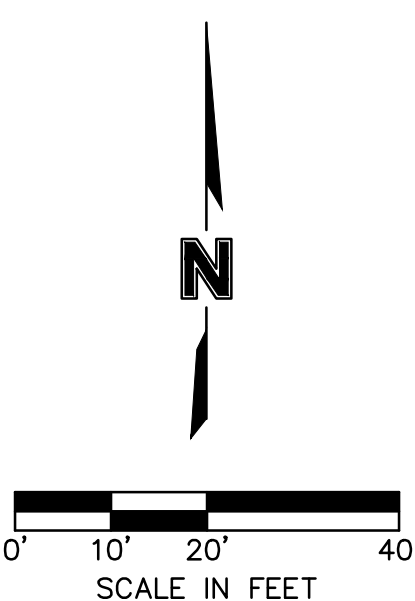
LEGEND

- PROPERTY LINE
- LOT LINE
- PROPOSED CONTOUR
- EXISTING CONTOUR
- LIMITS OF DISTURBANCE (41.8+/- ACRES)
- SILT FENCE
- TEMPORARY CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- STAGING/STOCKPILE AREA
- FILTER BAGS
- EXISTING INLET PROTECTION
- PROPOSED INLET PROTECTION
- 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.



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 & whenever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

Mid-Continent Public Library
CONSTRUCTION DOCUMENTS

LEE'S SUMMIT LIBRARY

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

PACKAGE **15**

Engineer of Record

TERRY M. PARSONS
NUMBER
PE-2018010505
11/13/2021

Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olson.com

Olsson
Missouri State Certificate of Authority #001592

Revision No.	Description	Date
02	ASI01	06.26.21
03	ASI02	08.30.21

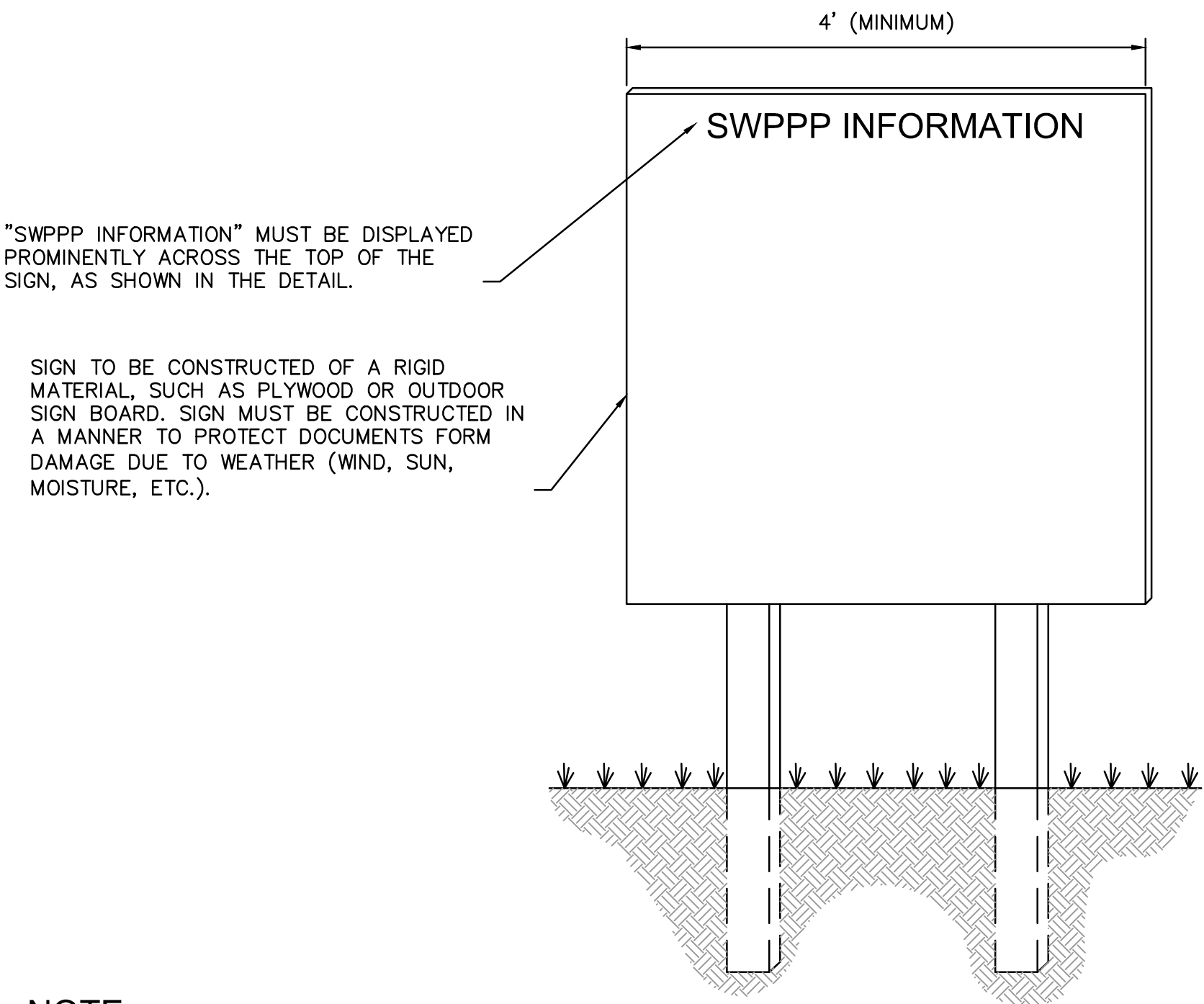
Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

C7.1
EROSION CONTROL PLAN

© Copyright 2019 - Sapp Design Associates, Architects, P.C.

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNC\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\VC_ER001_0180330.dwg
DATE: Oct 14, 2021 7:32am XREFS: C:\TBLK_0180330 C_XBASE_0180330 C_PSURF_0180330 USER: bkimmich



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

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 whenever & 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



Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

Olsson
Missouri State Certificate of Authority #001592

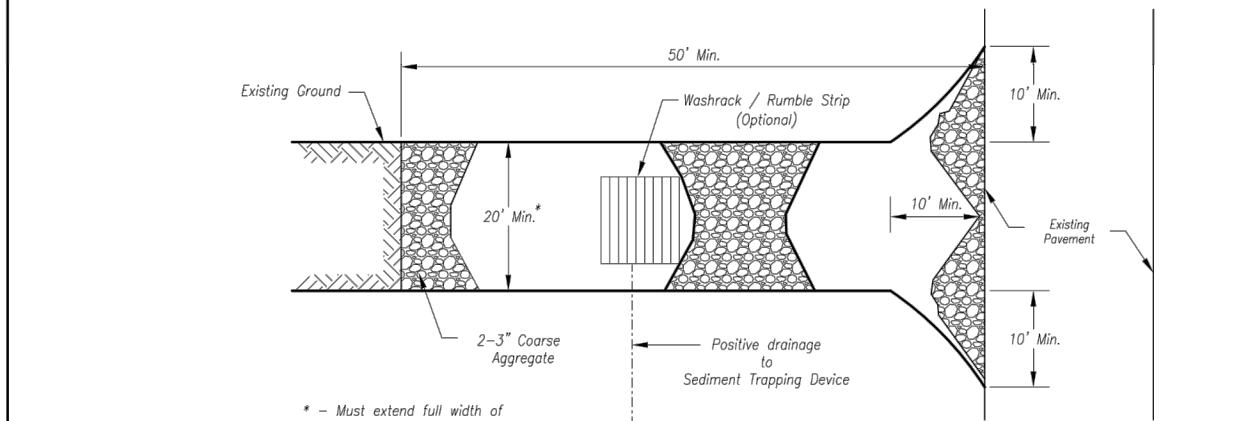
Revision No.	Description	Date
02	ASI01	06.26.21

Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

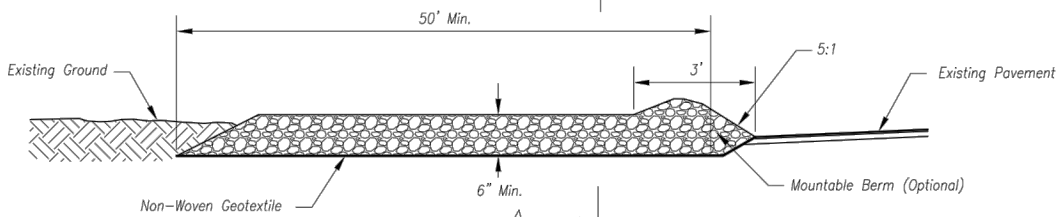
Drawing No.

C7.2
EROSION CONTROL
DETAILS

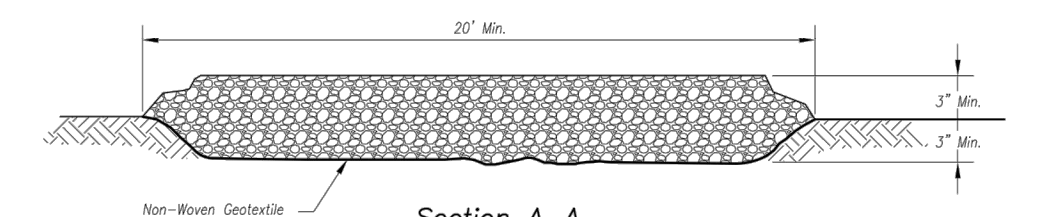
© Copyright 2020 by Olsson Engineering, Inc. All rights reserved.



Plan View
Not to Scale



Side Elevation
Not to Scale



Section A-A
Not to Scale

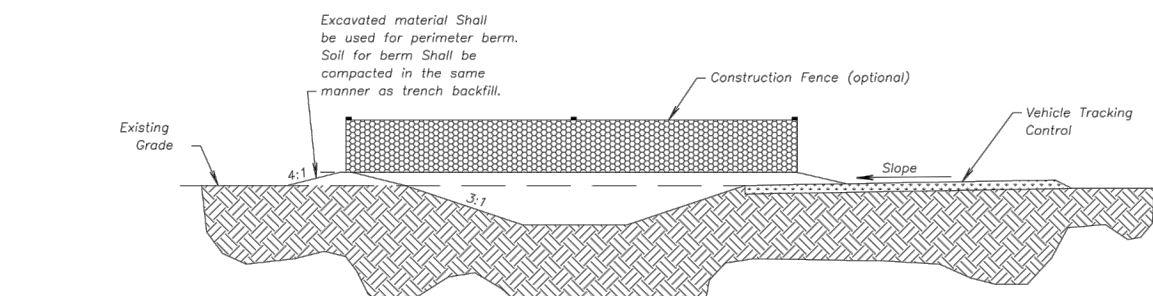
Notes for Construction Entrance:

1. Avoid locating on steep slopes, at curves on public roads, or down-drift of disturbed area.
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 3:1 side slopes across the foundation approximately 15 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



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.

Notes for Concrete Washout:

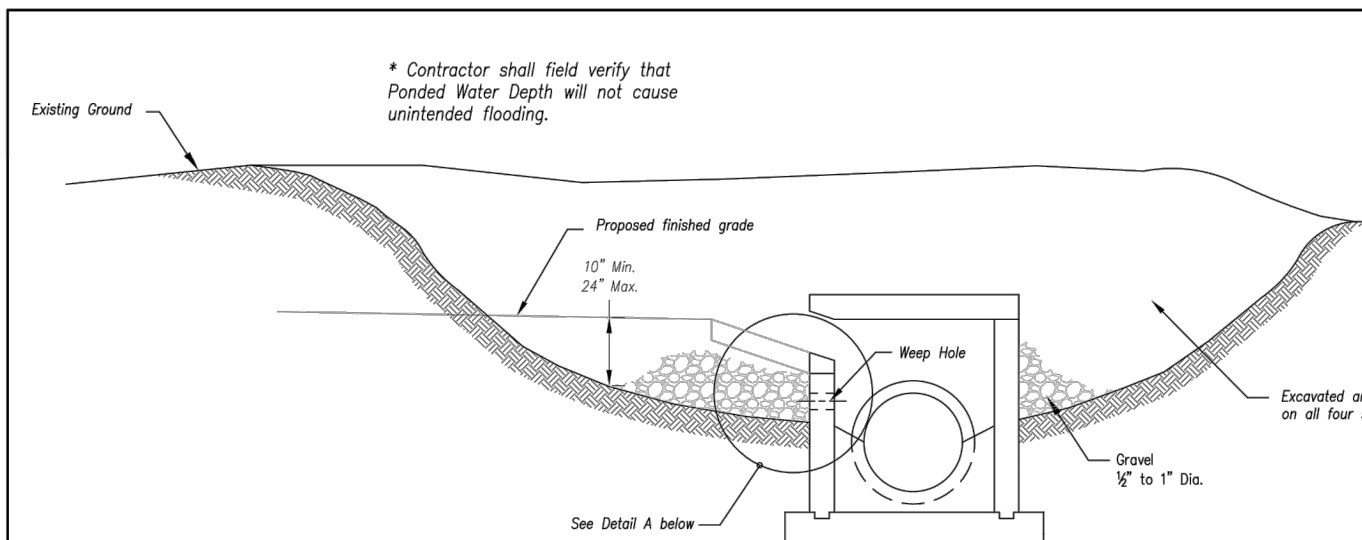
1. Concrete washout areas shall be installed prior to any concrete placement on site.
2. Concrete washout areas shall include a flat subsurface all sloped relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 2:1. The vehicle loading pad shall 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 gravelly soils.

Maintenance for Concrete Washout:

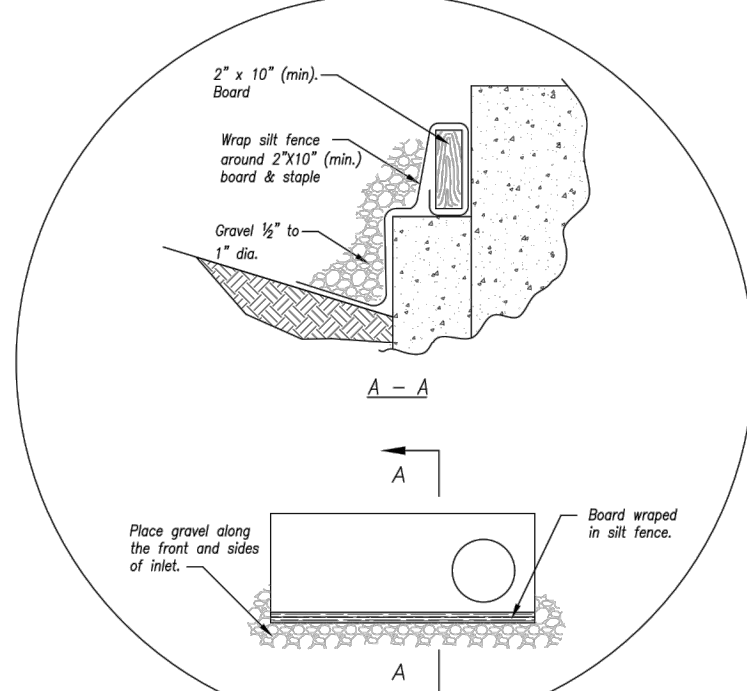
1. Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
2. Concrete washout areas shall be enlarged as necessary to maintain capacity for washed concrete.
3. Concrete washout water, washed pieces of concrete and all other debris in the subsurface 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 material and rip-rap, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.

CONCRETE WASHOUT

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



See Detail A below



Detail A

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

Notes:

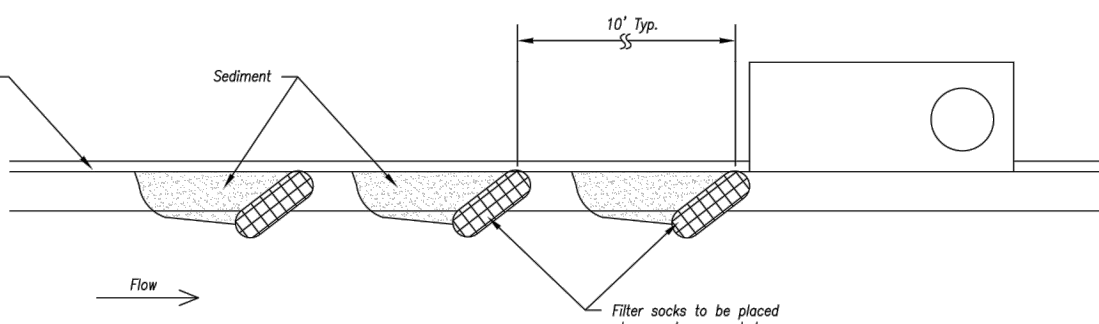
1. Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2' x 10' (min) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
2. When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

Maintenance:

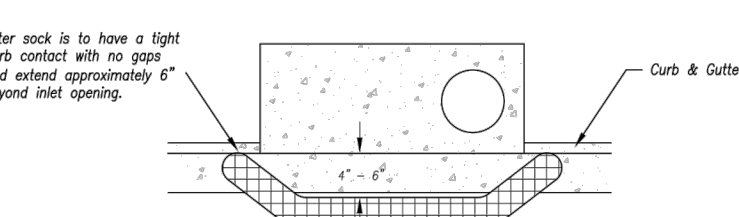
1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
3. Repair or replace as necessary to maintain function and integrity of installation.

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

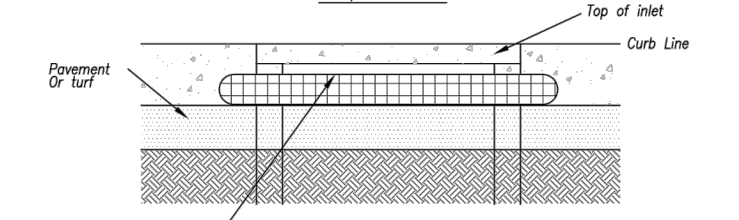
On Grade Curb Inlet Protection



On Grade Curb Inlet Protection



Top View

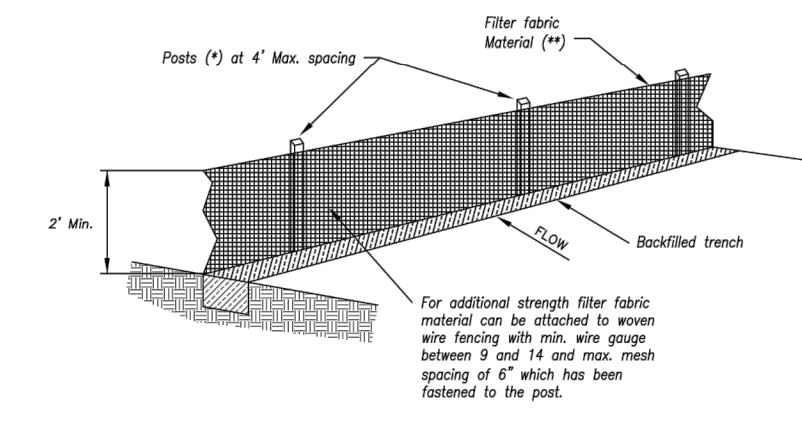


Front View

Sump Inlet Sediment Filter

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

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



- (*) POSTS
 - MIN. LENGTH 4'
 - HAWKWOOD 1 3/4" x 1 3/4"
 - NO.2 SOUTHERN PINE 2 1/2" x 2 1/2"
 - STEEL 1.33 LB/FT
- (**) - Geotextile Fabric shall meet the requirements of AASHTO M288

SILT FENCE DETAILS

Not to Scale

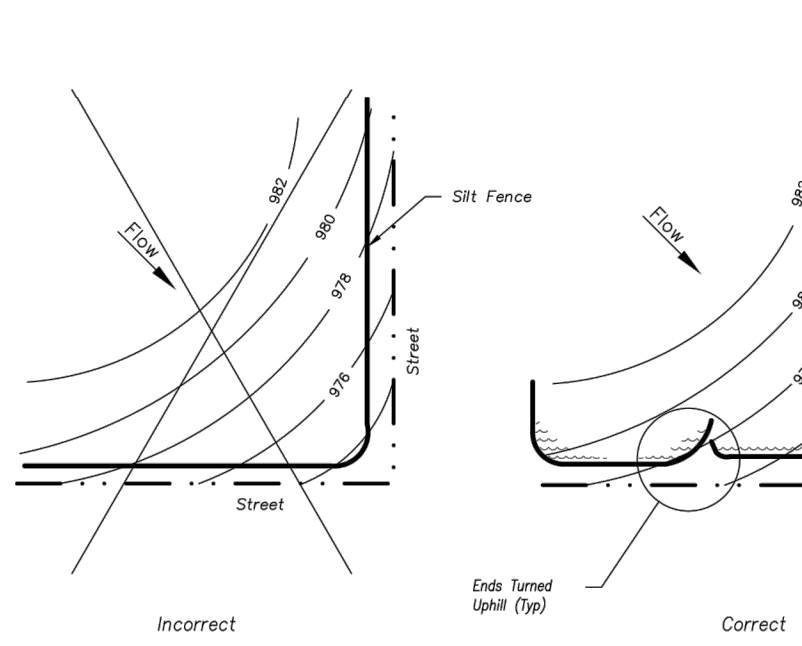
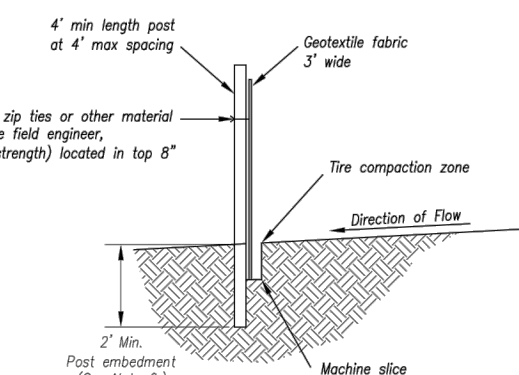


Figure A

SILT FENCE LAYOUT

Not to Scale

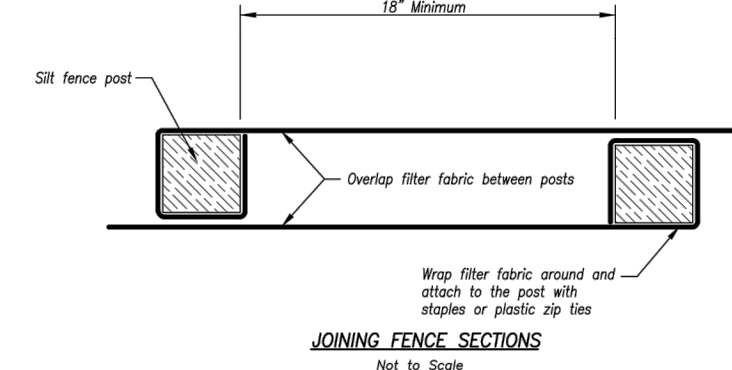


Notes:

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'. Turns 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 sloping machine cannot be reasonably used.

Maintenance:

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

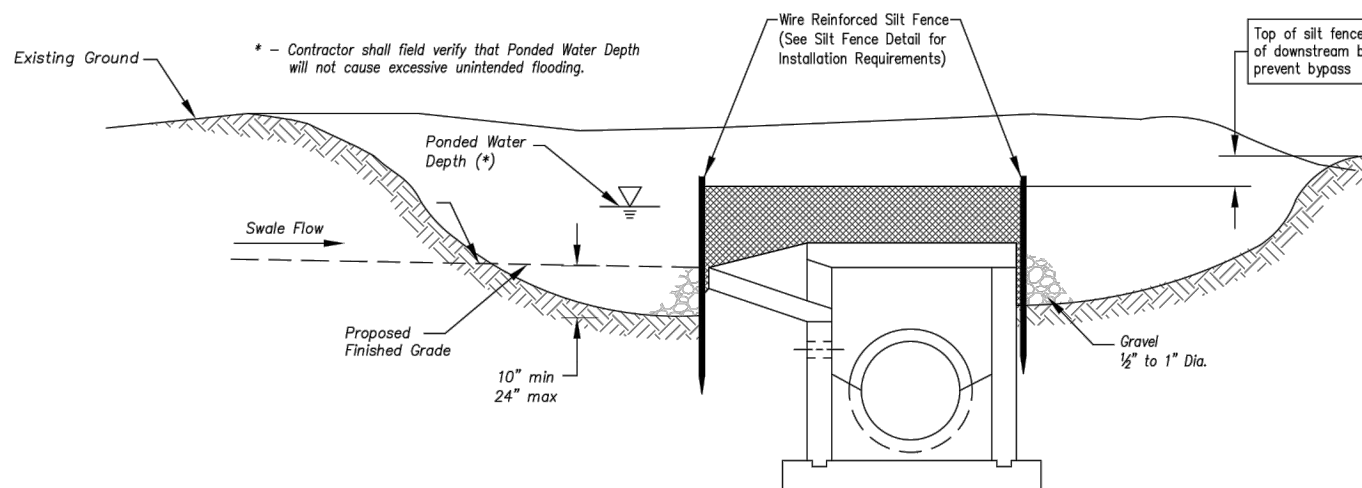


JOINING FENCE SECTIONS

Not to Scale

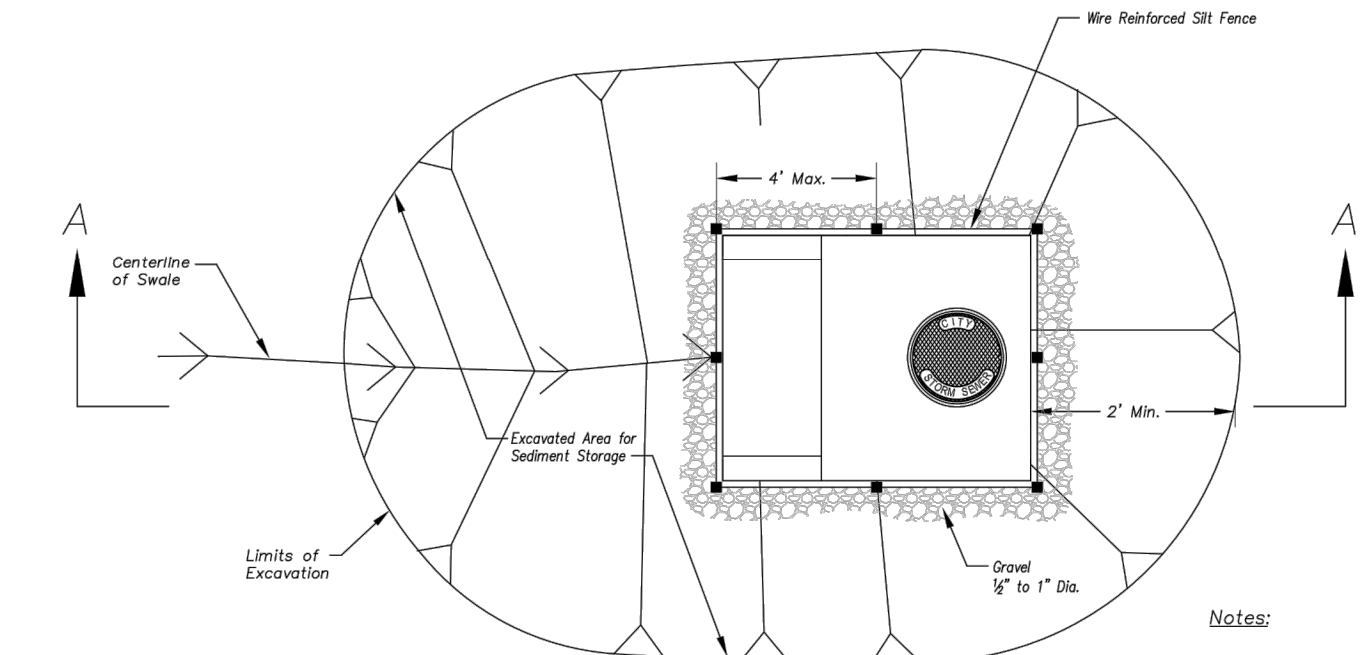
AMERICAN PUBLIC WORKS ASSOCIATION	
	KANSAS CITY METRO CHAPTER
SILT FENCE	STANDARD DRAWING NUMBER ESC-03 ADOPTED: 10/24/2016

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



Section A-A

Not to Scale



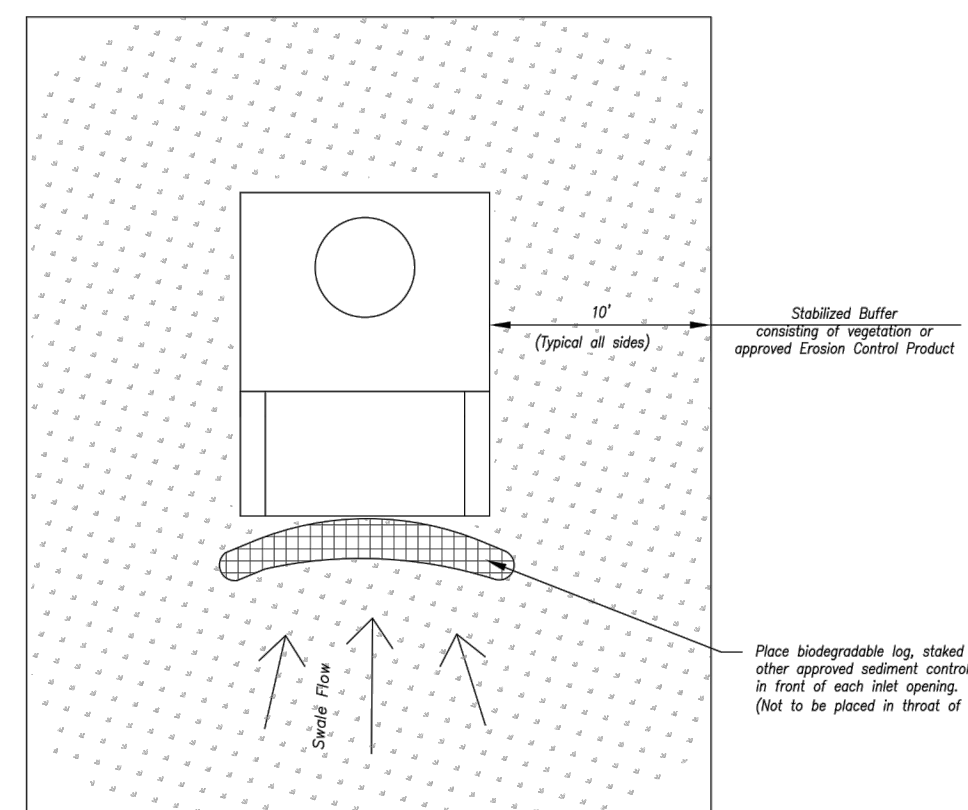
Plan

Not to Scale

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

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.



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.

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

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

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 & whenever used, and the owner of the seal shall authorize this seal 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



Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olson.com

Olsson
Missouri State Certificate of Authority #001592

Revision No.	Description	Date
02	ASI01	06.26.21

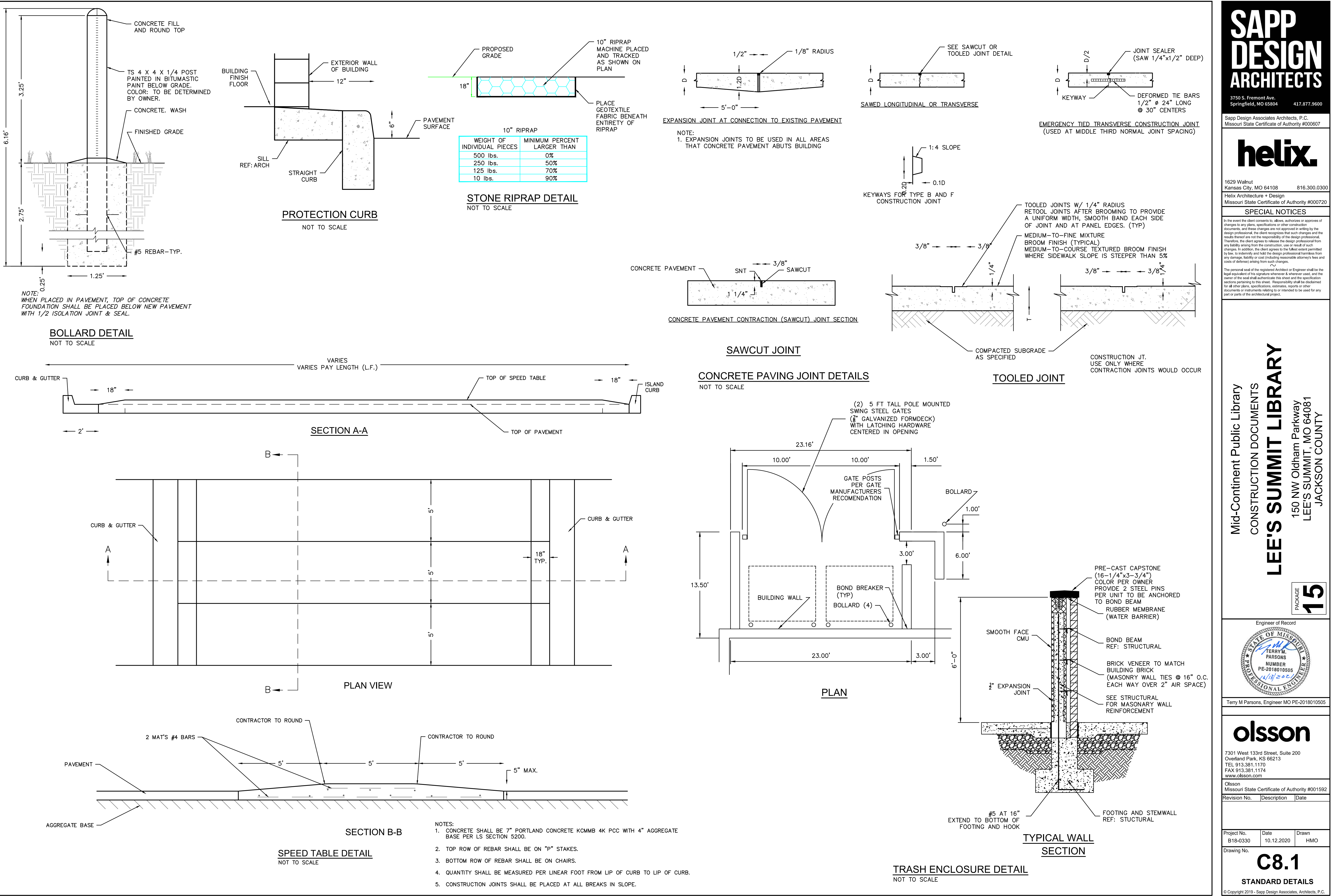
Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

C7.3 EROSION CONTROL DETAILS

© Copyright 2016 by Olsson Engineering, Inc. All rights reserved.

DWG: F:\2018\0001-0500\018-0330-B\40-Design\AutoCAD\Final Plans\Sheets\GNC\WORK PACKAGE 15\CONSTRUCTION DOCUMENTS\C-DTL01_0180330.dwg
DATE: Oct 14, 2021 7:33am XREFS: C:\BLK_0180330
USER: bkimmich



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

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authorize this seal 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
11/13/2016
PROFESSIONAL ENGINEER

Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

Olsson
Missouri State Certificate of Authority #001592

Revision No.	Description	Date

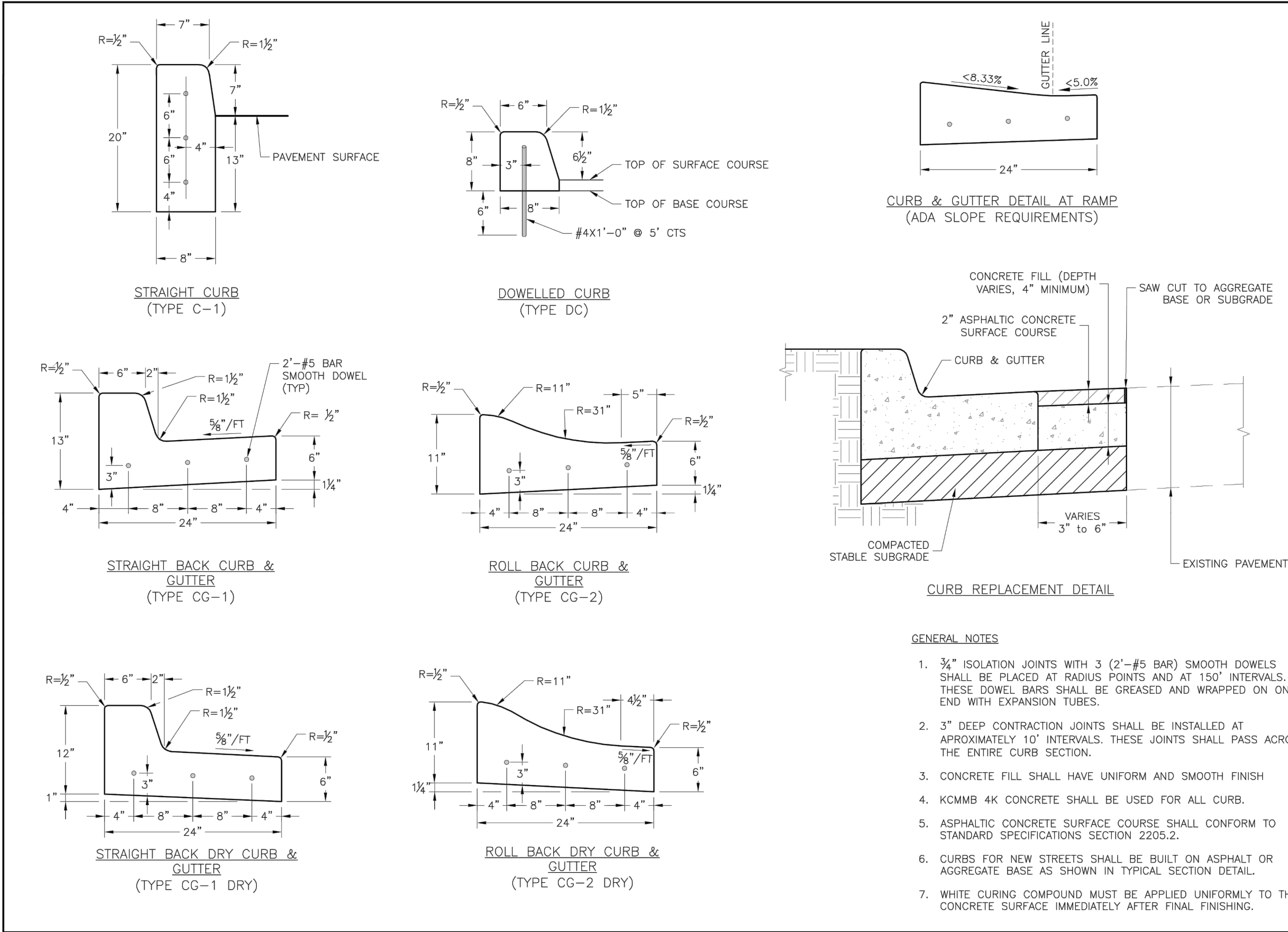
Project No.	Date	Drawn
B18-0330	10.12.2020	HMO

Drawing No.

C8.1

STANDARD DETAILS

© Copyright 2019 - Sapp Design Associates, Architects, P.C.



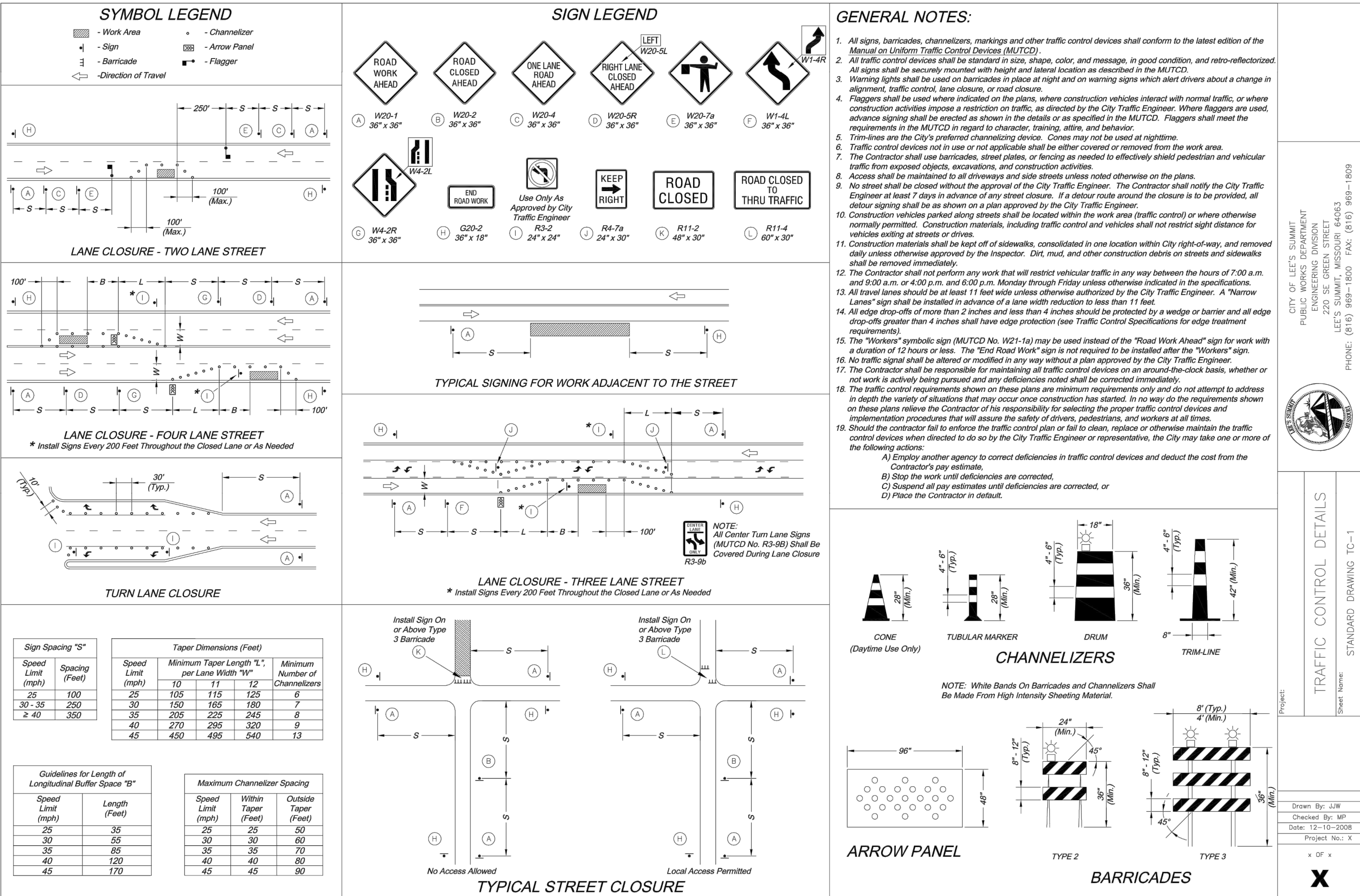
GENERAL NOTES

1. $\frac{3}{4}$ " 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 APPROXIMATELY 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 CURBS.
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

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

GEN-4



**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 whenever & wherever used, and the design professional shall authorize this seal 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

Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

Olsson
Missouri State Certificate of Authority #001592
Revision No. Description Date

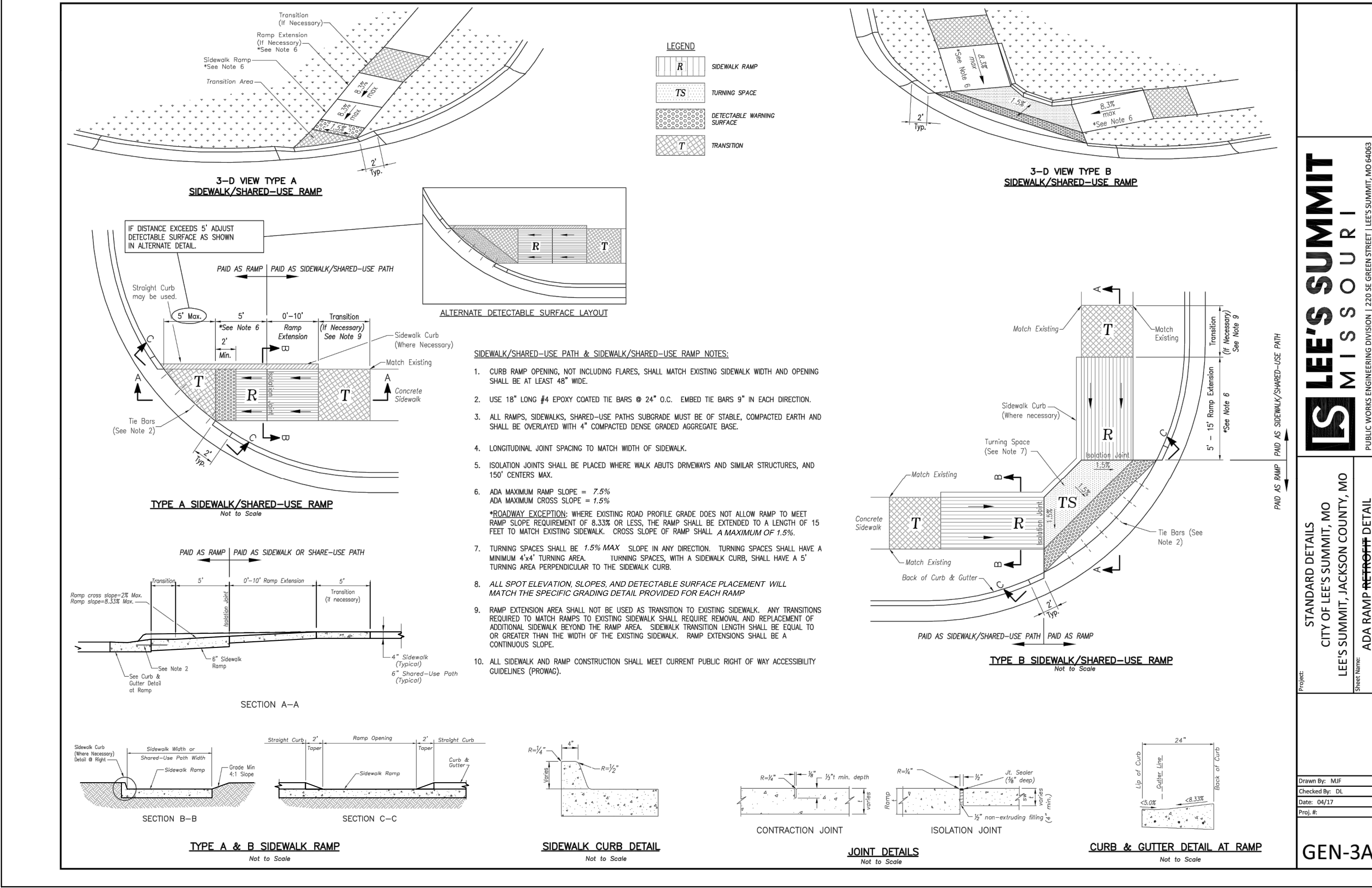
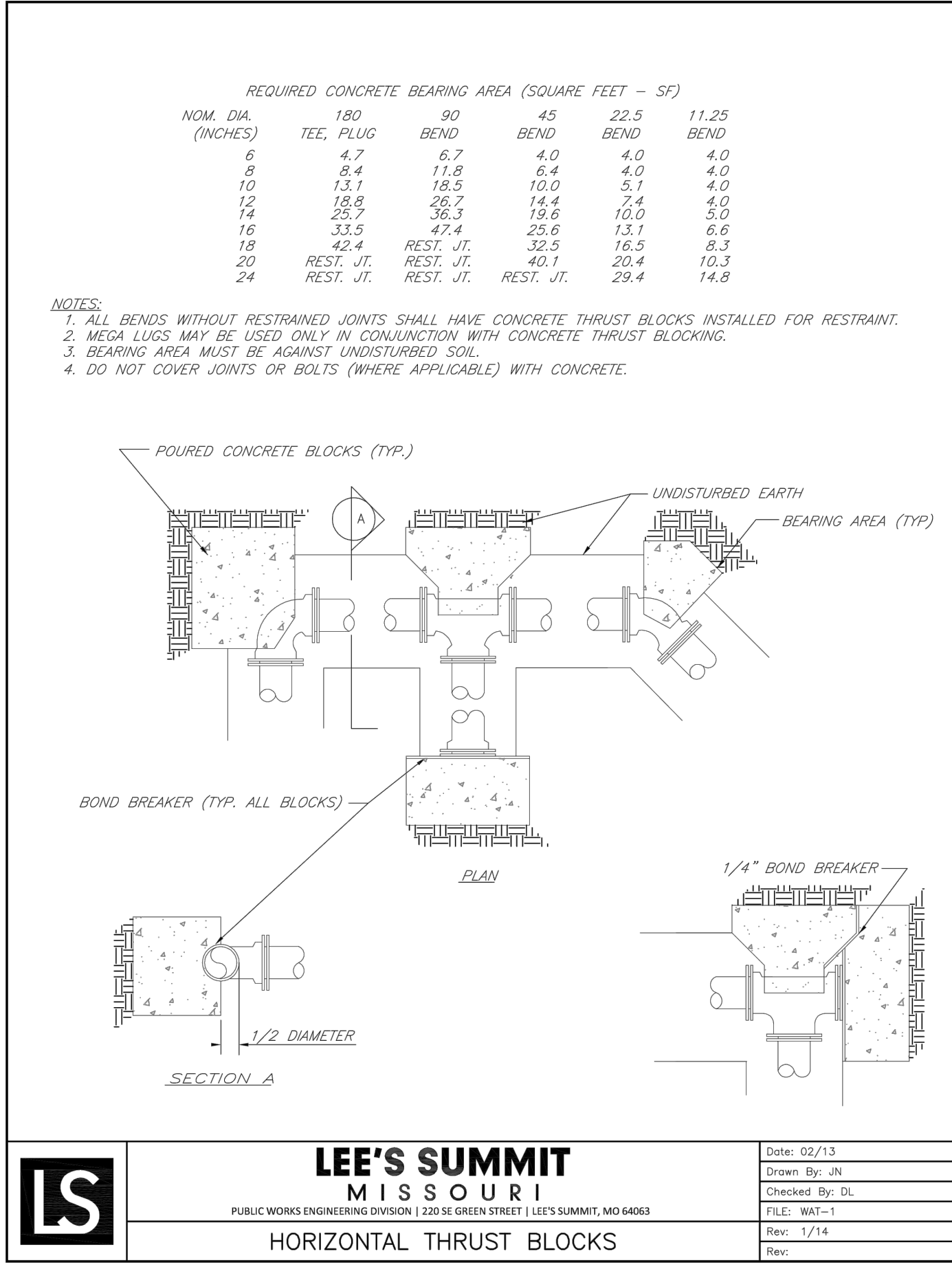
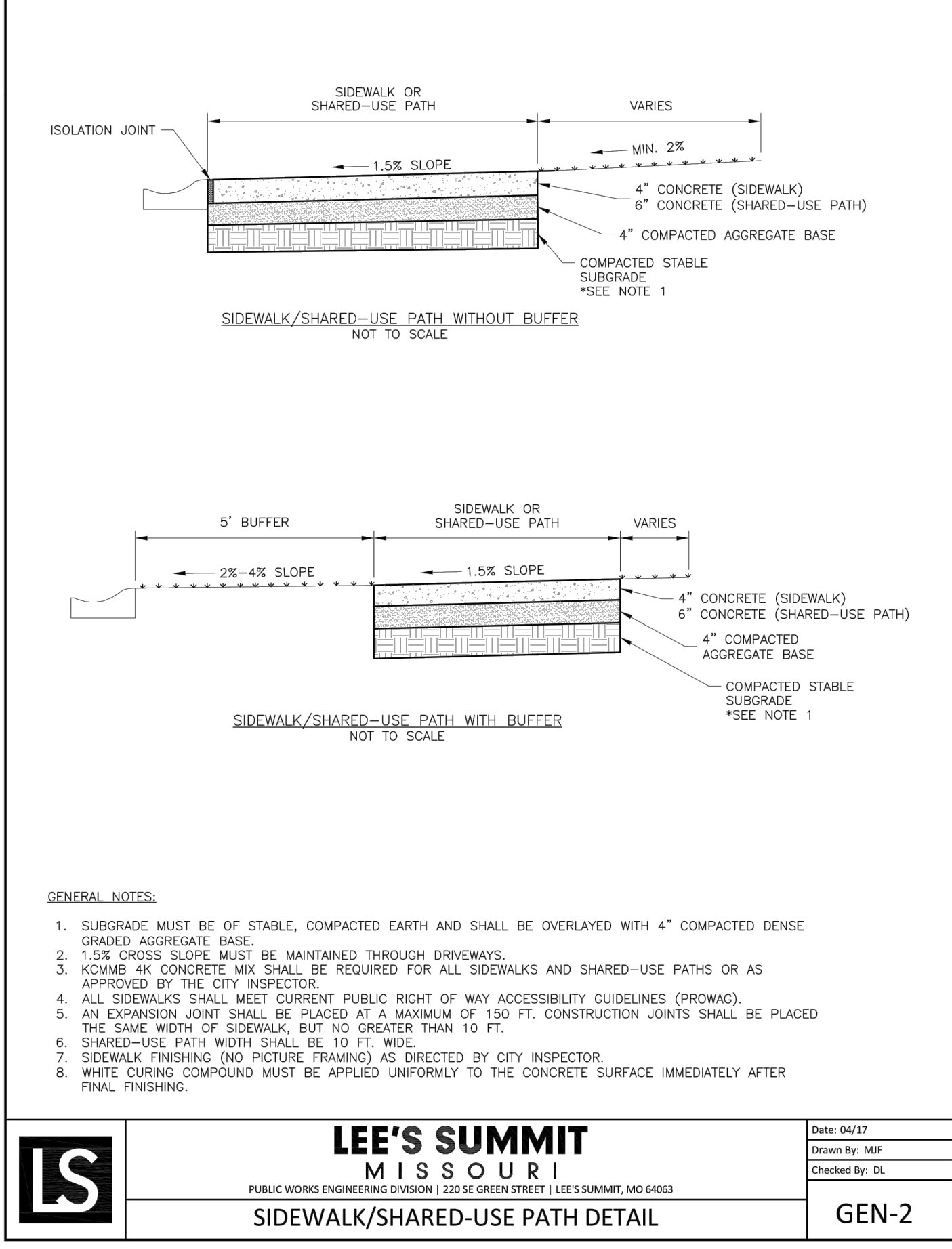
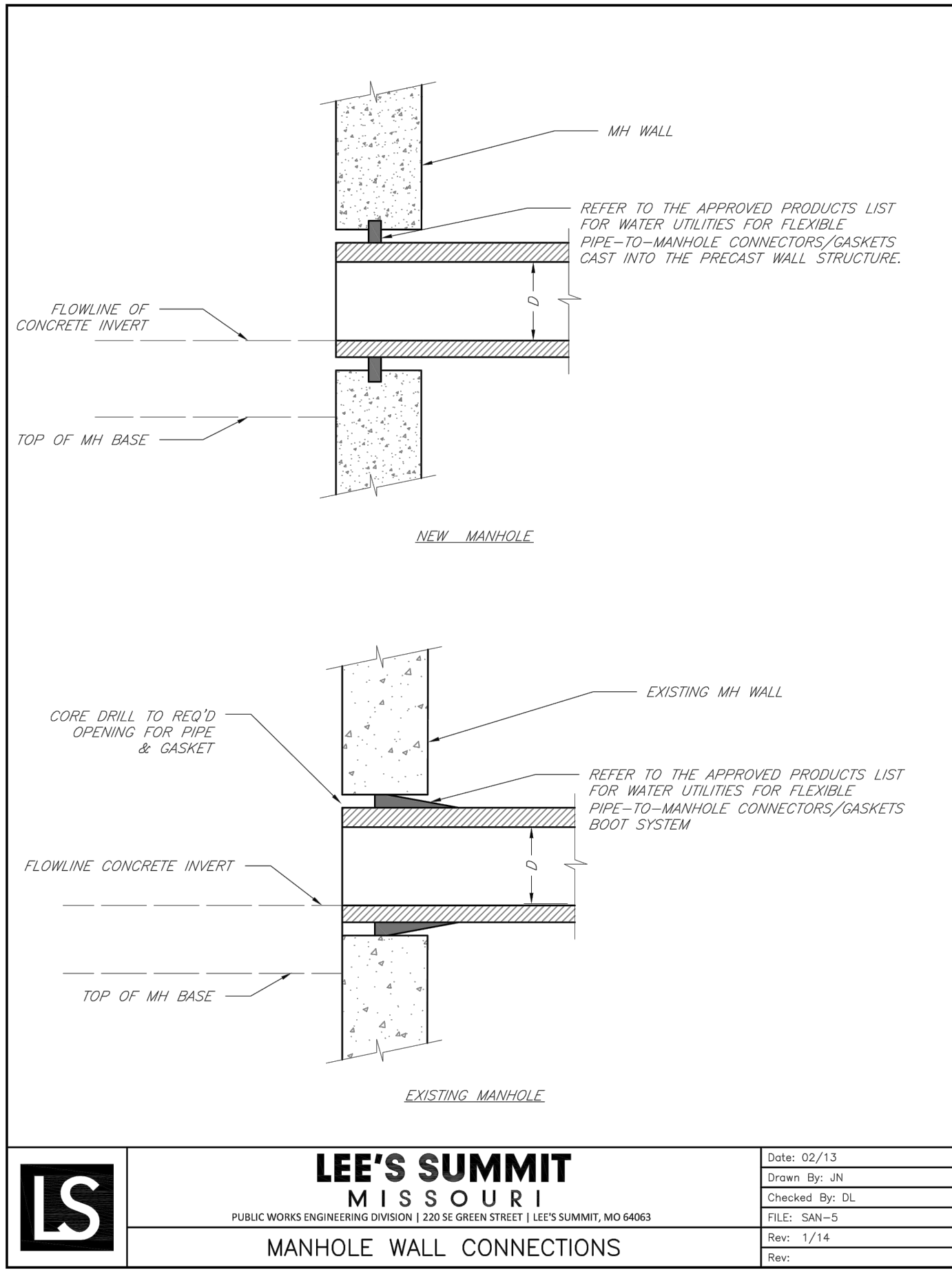
Project No. B18-0330 Date 10.12.2020 Drawn HMO

Drawing No.

C8.2

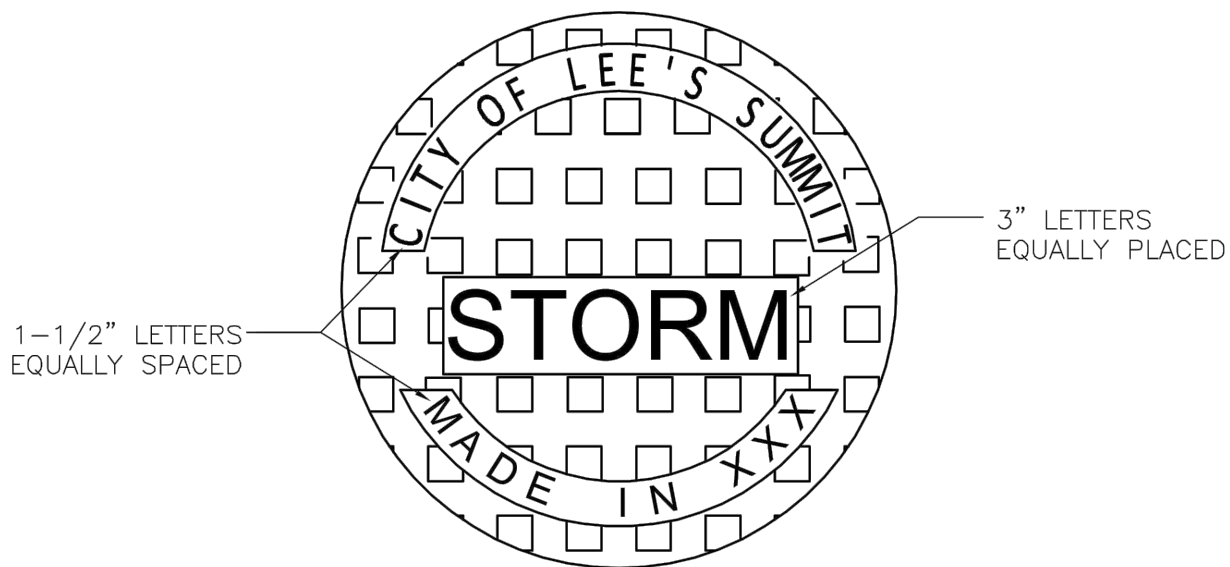
STANDARD DETAILS

© Copyright 2019 - Sapp Design Associates, Architects, P.C.



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

The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authorize its use 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.



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

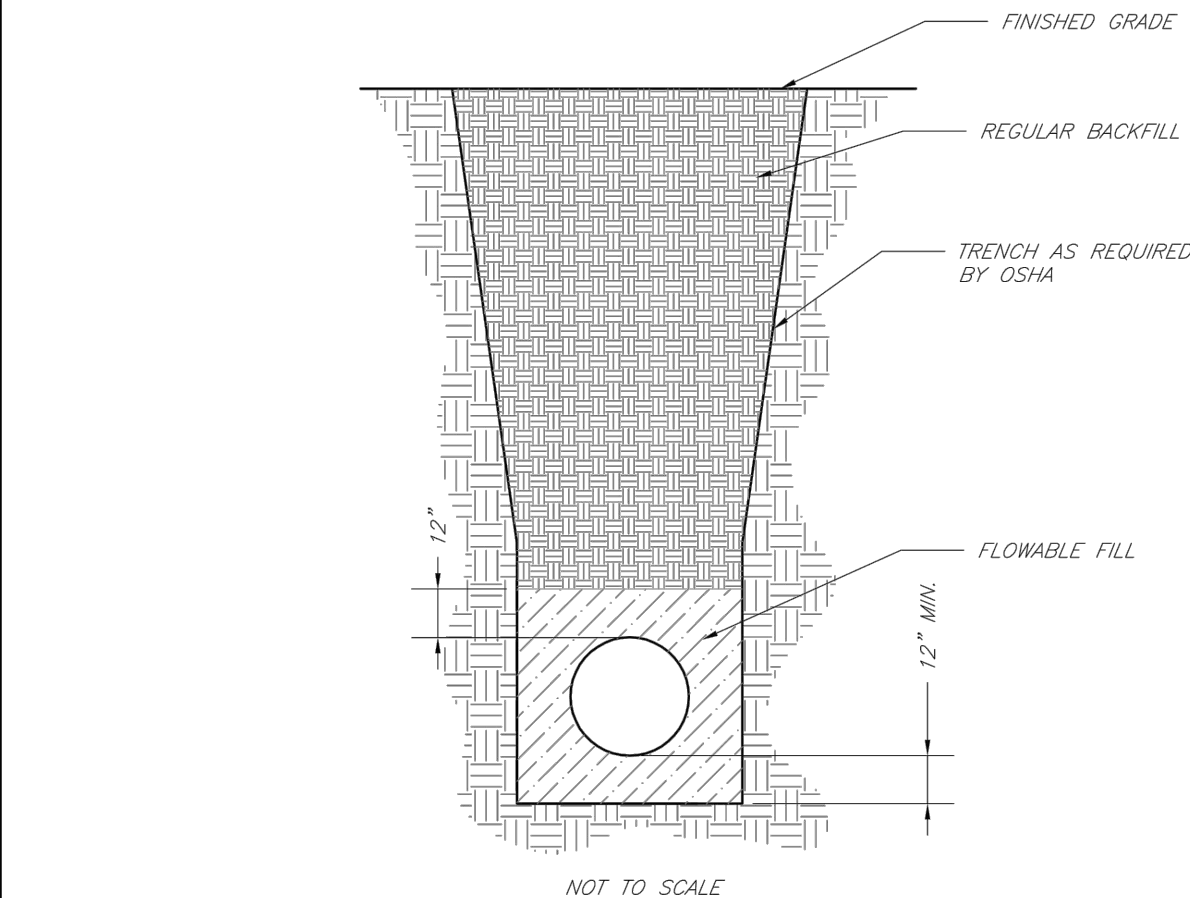
*COVER AND FRAME MODEL INFORMATION REFER TO
THE STORMWATER APPROVED PRODUCT LIST.



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

STORM MANHOLE COVER DETAIL

STM-6



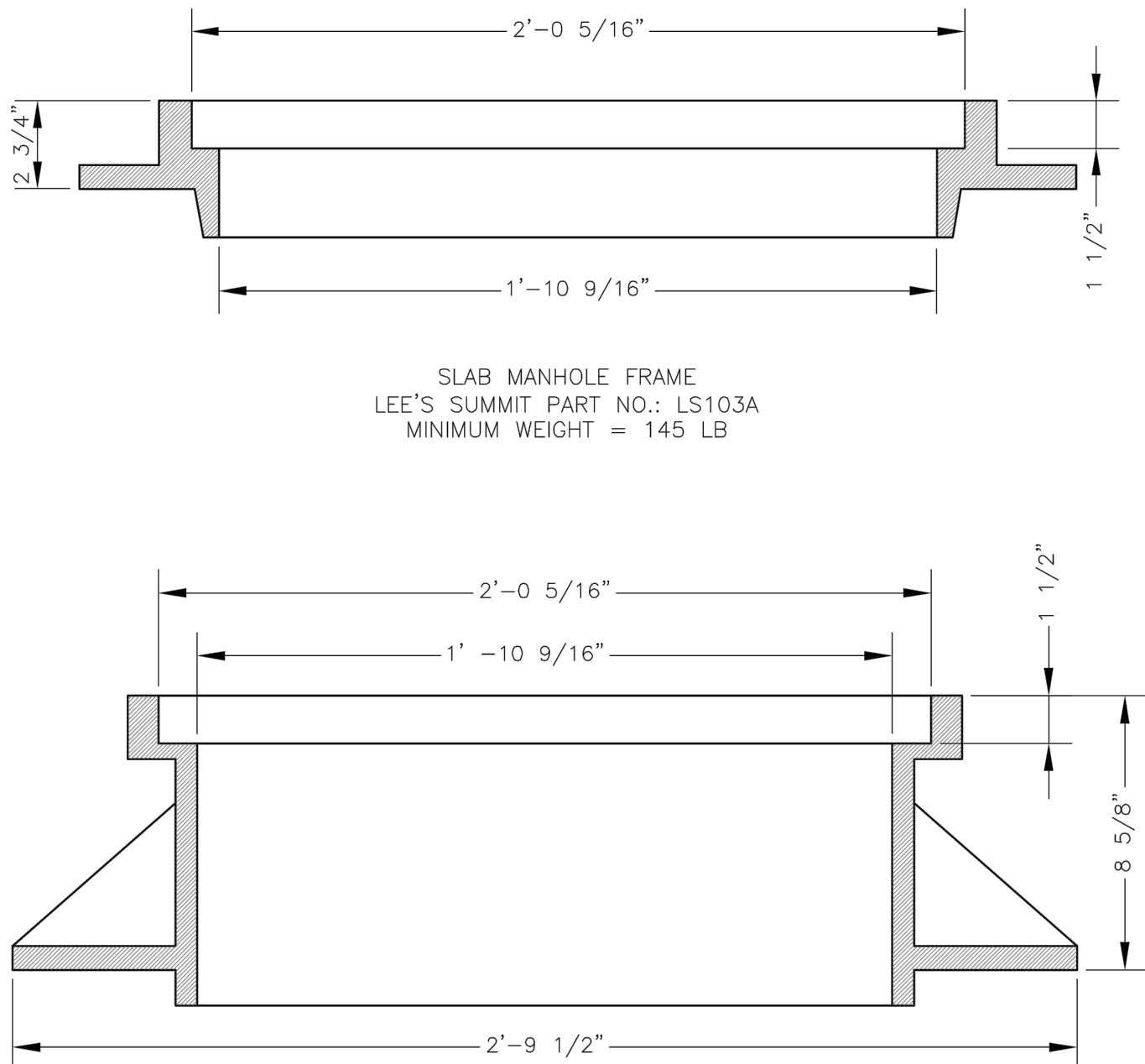
- NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
 2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
 3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
 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: 04/17
Drawn By: MIF
Checked By: DL
FILE: WAT-6
Rev: 1/14



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

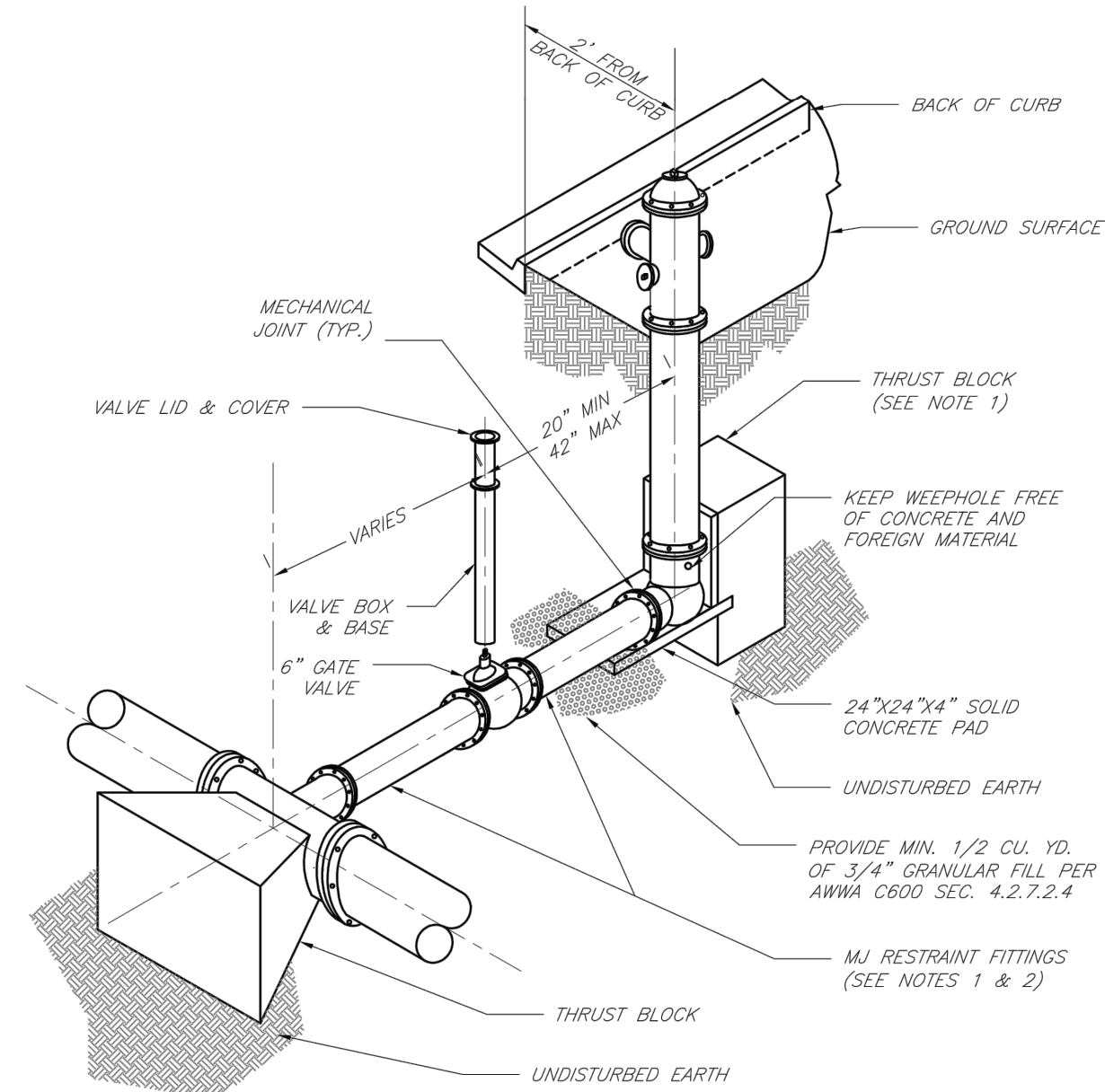
*COVER AND FRAME MODEL INFORMATION REFER TO
THE STORMWATER APPROVED PRODUCTS LIST.



**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: MIF
Checked By: DL
STM-7



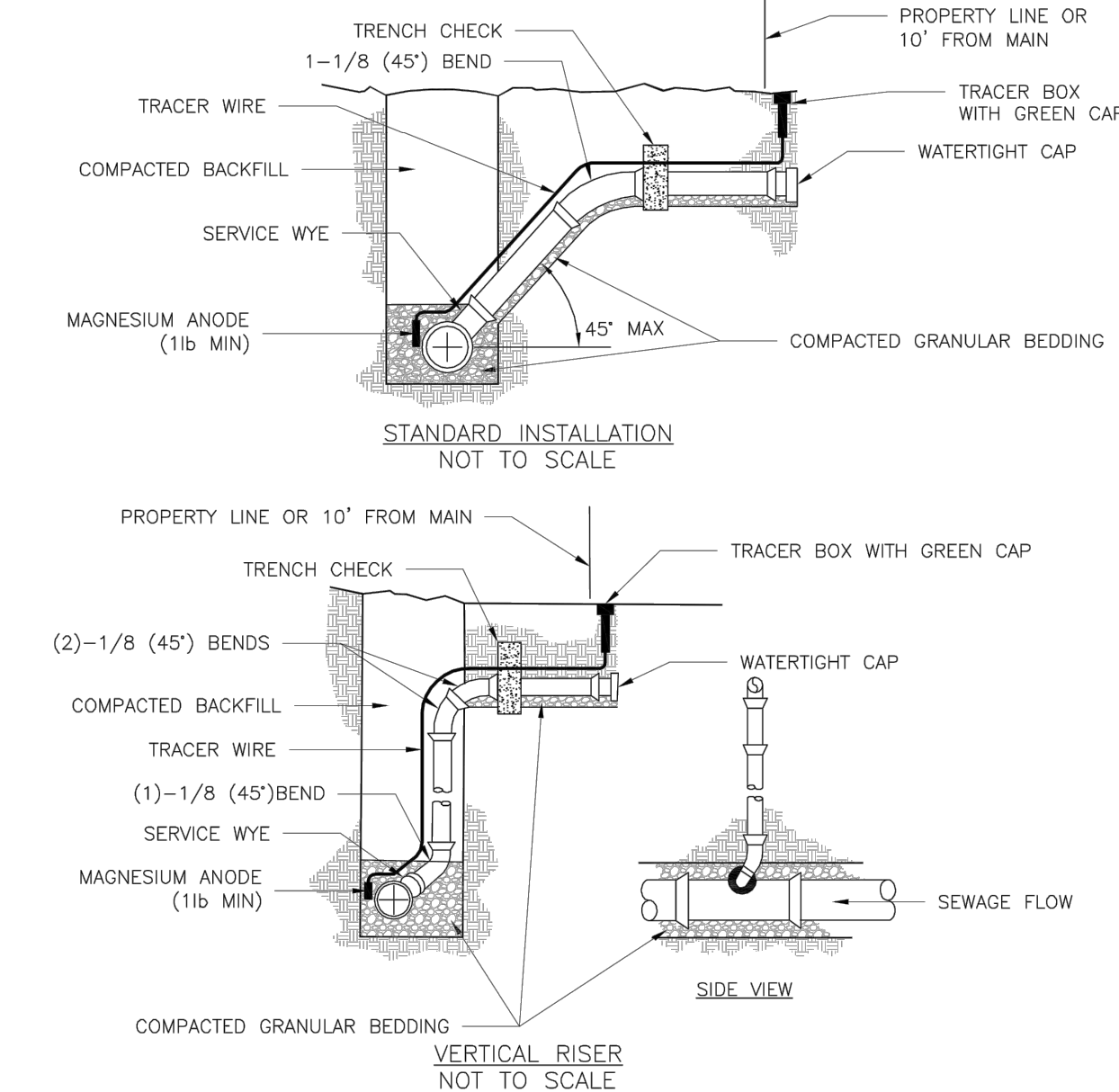
- NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
 2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
 4. BOTTOM 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



- 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 LOOK-ALIKE 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.



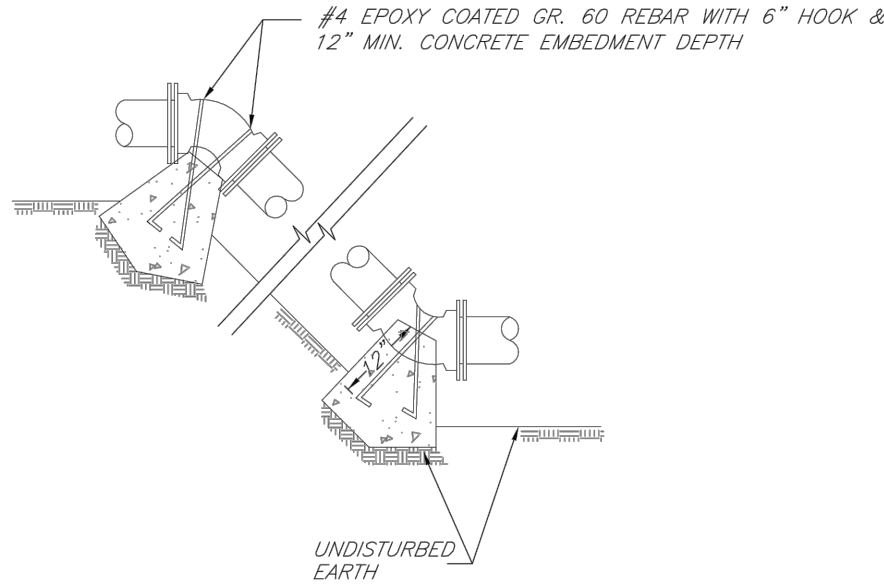
**LEE'S SUMMIT
MISSOURI**
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

BUILDING SEWER STUB AND RISER

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

REQUIRED CONCRETE VOLUME (CUBIC FEET - CF)				
NOM. DIA. (INCHES)	TEE, PLUG	90° BEND	45° BEND	22.5° BEND
6	50.5	71.4	38.6	19.7
8	69.9	126.9	68.7	35.0
10	140.2	198.3	107.3	54.7
12	232.0	320.7	154.6	78.8
14	REST. JT.	REST. JT.	210.4	107.3
16	REST. JT.	REST. JT.	REST. JT.	140.1
18	REST. JT.	REST. JT.	REST. JT.	172.3
20	REST. JT.	REST. JT.	REST. JT.	REST. JT.
24	REST. JT.	REST. JT.	REST. JT.	REST. JT.

- 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

**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 whenever & wherever used, and the design professional shall not authorize the use of his seal 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



Terry M Parsons, Engineer MO PE-2018010505

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213
TEL 913.381.1170
FAX 913.381.1174
www.olsson.com

Olsson
Missouri State Certificate of Authority #001592

Revision No. Description Date

Project No. B18-0330 Date 10.12.2020 Drawn HMO

Drawing No.

C8.4

STANDARD DETAILS

© Copyright 2019 - Sapp Design Associates, Architects, P.C.



NOT TO SCALE



NOT TO SCALE

- ## GENERAL

- ## CONCRETE

- ## REINFORCING STEEL

- ## CONSTRUCTION

-
- Diagram illustrating the Plan View of a manhole structure, showing dimensions and components:
- Dimensions:**
 - Overall width: 4'-0" MIN.
 - Overall length: 4'-0" MIN.
 - Radius of the manhole opening: 2'-0" MIN.
 - Components and Labels:**
 - COORDINATE LOCATIONS SHOWN ON CONSTRUCTION PLANS ARE CENTER OF STRUCTURE.** (Pointing to the center of the structure)
 - NO. 4 BARS PLACED AT 45° ANGLE (TYPICAL)** (Pointing to the reinforcement bars)
 - INSIDE WALL** (Pointing to the inner wall of the structure)
 - HEAVY DUTY RING AND LID - SEE MANHOLE COVER DETAIL (FOR PRIVATE SYSTEMS OMIT CITY LOGO & LETTERING)** (Pointing to the manhole cover)
 - OUTSIDE EDGE OF CONCRETE FOOTING** (Pointing to the outer edge of the structure)
 - COORDINATE LOCATIONS SHOWN ON CONSTRUCTION PLANS ARE CENTER OF STRUCTURE.** (Pointing to the center of the structure)
 - PLAN VIEW**
 - NOT TO SCALE**

