

# LEE'S SUMMIT HIGH SCHOOL

## SITE PLAN

400 SE BLUE PARKWAY, LEE'S SUMMIT, MO 64063

SECTION 8 - TOWNSHIP 47 N - RANGE 31 W

### CONSTRUCTION NOTES:

1. COORDINATE STAKES AND ALL CONSTRUCTION ACTIVITIES WITH THE ARCHITECT.
2. CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED THE KANSAS CITY METROPOLITAN CHAPTER OF APWA STANDARD SPECIFICATIONS AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT.
3. ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.
4. PUBLIC CONVENIENCE AND SAFETY: THE CONTRACTOR SHALL CONDUCT THE WORK IN A MANNER THAT WILL INSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC, AND SHALL PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC AND RESIDENTS ALONG AND ADJACENT TO PUBLIC RIGHT-OF-WAYS IN THE CONSTRUCTION AREA.
5. ALL DIMENSIONS SHOWN ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
6. ALL TRAFFIC CONTROL DEVICES, INSTALLATION AND OPERATIONS SHALL CONFORM WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

### WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO. WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A TEMPORARY BASIS AT THE SITE.

### CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. **THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.**

### SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

### PAVEMENT MARKING SPECIFICATIONS:

PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF KANSAS CITY, MISSOURI, CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION SPECIFICATIONS SECTION 2306 AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT.

### LAND USE TABLE:

TOTAL SITE AREA: 1,983,297 SF - 45.53 AC  
TOTAL FLOOR AREA: 372,682 SF  
FLOOR AREA RATIO: 11.4%

PROJECT AREA/AREA OF DISTURBANCE  
TOTAL: 761,400 SF (17.48 AC.)

### PARKING

REQUIRED BY ZONING ORDINANCE:

6 STALLS PER CLASSROOM (103 CLASSROOMS = 618 PARKING STALLS)

### EXISTING:

PROJECT AREA: 758 (11 ACCESSIBLE) STALLS

### PROPOSED:

TOTAL: 1166 REGULAR (18 ACCESSIBLE) STALLS

PROJECT AREA: 744 (15 ACCESSIBLE) STALLS  
TOTAL: 1154 REGULAR (22 ACCESSIBLE) STALLS

20' ALONG STREETS AND RESIDENTIAL PROPERTIES, 6' OTHER LOCATIONS.  
SETBACKS PROVIDED MEET OR EXCEED CURRENT SETBACKS ON LSHS CAMPUS.  
SEE C200 SHEETS FOR DIMENSIONS.

IMPERVIOUS COVERAGE WITHIN PROJECT AREA (INCLUDES ATHLETICS)  
EXISTING: 565,150 S.F. - 12.97 AC.  
PROPOSED: 581,150 S.F. - 13.34 AC.  
INCREASE: 16,000 S.F. - 0.37 AC.

ZONING: RP-2, CP-1(EAST 290')

SETBACKS: FRONT: 50' MAJOR STREETS OTHERWISE 20'

SIDE: 5'

REAR: 20'

BUILDING HEIGHT: 40'

### DESCRIPTION: (PER TITLE COMMITMENT)

TRACT 1: (MISSOURI WARRANTY DEED, BK. 1-80, Pg. 1804)

ALL THAT PART OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, EXCEPT THAT PART CONVEYED TO THE STATE OF MISSOURI BY WARRANTY DEED RECORDED IN BOOK 656 AT PAGE 111 (DEED 1B), AND

ALSO EXCEPT THAT PART THEREOF CONVEYED TO THE STATE OF MISSOURI BY WARRANTY DEED RECORDED IN BOOK 661 AT PAGE 166 (DEED 1C),

ALSO EXCEPT THAT PART THEREOF CONVEYED TO ARTHUR B. MCLENNAN AND PAULINE P. MCLENNAN, HUSBAND AND WIFE BY WARRANTY DEED RECORDED IN BOOK 883 AT PAGE 51 (DEED 1D), AND

ALSO EXCEPT A TRACT OF LAND IN SAID SOUTHWEST QUARTER OF THE NORTHEAST QUARTER, SECTION 8, TOWNSHIP 47, RANGE 31, DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT 651.69 FEET NORTH OF THE SOUTHEAST CORNER OF THE SAID QUARTER SECTION, THENCE WEST 491.69 FEET; THENCE NORTH 63 FEET; THENCE EAST 491.69 FEET TO THE QUARTER SECTION LINE; THENCE SOUTH 63 FEET TO POINT OF BEGINNING.

TRACT 2: (MISSOURI WARRANTY DEED, BOOK 1243, AT PAGE 716)(DEED 2)

ALL OF THE WEST 327 FEET OF THE NORTH 2 ACRES OF THE SOUTH 5 ACRES OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT 198 FEET NORTH OF THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN JACKSON COUNTY, MISSOURI, AND RUNNING THENCE EAST 327 FEET; THENCE NORTH 132 FEET; THENCE SOUTH 132 FEET TO POINT OF BEGINNING.

TRACT 3: (MISSOURI WARRANTY DEED, BOOK 1277, AT PAGE 335)(DEED 3)

THE SOUTH 5 ACRES OF THE WEST HALF OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.

TRACT 4: (REPORT OF COMMISSIONERS, BOOK 1484, AT PAGE 306)(DEED 4)

ALL OF THE WEST 327 FEET OF THE SOUTH 3 ACRES OF THAT PART OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT 651.69 FEET NORTH OF THE SOUTHEAST CORNER OF THE SAID QUARTER SECTION, THENCE WEST 491.69 FEET; THENCE NORTH 63 FEET; THENCE EAST 491.69 FEET TO THE QUARTER SECTION LINE; THENCE SOUTH 63 FEET TO POINT OF BEGINNING.

TRACT 5: (MISSOURI WARRANTY DEED, BOOK 1491, AT PAGE 140)(DEED 5)

ALL THAT PART OF THE EAST HALF OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF THE INTERSECTION OF 7TH STREET AND BROWNING AVENUE, THENCE SOUTH ALONG THE EAST LINE OF BROWNING AVENUE A DISTANCE OF 678.52 FEET TO THE NORTH LINE OF 8TH STREET; THENCE EAST ALONG THE NORTH LINE OF 8TH STREET A DISTANCE OF 133 FEET TO THE EAST LINE OF SAID QUARTER SECTION; THENCE NORTH ALONG THE EAST LINE OF SAID QUARTER SECTION A DISTANCE OF 678.52 FEET TO THE NORTH LINE OF 7TH STREET EXTENDED; THENCE WEST ALONG THE NORTH LINE OF 7TH STREET EXTENDED A DISTANCE OF 133.77 FEET TO THE POINT OF BEGINNING.

TRACT 6: (MISSOURI WARRANTY DEED, BOOK 1536, AT PAGE 205)(DEED 6)

ALL THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47, RANGE 31, DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT 556.69 FEET NORTH OF THE SOUTHEAST CORNER OF 1/4 OF 1/4 SECTION; THENCE WEST 491.69 FEET; THENCE NORTH 158 FEET; THENCE EAST 491.69 FEET; THENCE SOUTH 158 FEET TO POINT OF BEGINNING, ALL IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.

EXCEPT THAT PART CONTAINED IN THE REPORT OF COMMISSIONERS RECORDED AS DOCUMENT NO 131081 IN BOOK 189 AT PAGE 465, DESCRIBED AS FOLLOWS:

ALL THAT PART OF THE SW 1/4 OF THE NE 1/4 OF SECTION 8, 747N, R31W, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI DESCRIBED AS FOLLOWS: BEGINNING AT A POINT 714.89 FEET NORTH AND 57 FEET WEST OF THE SOUTHEAST CORNER OF THE SW 1/4 OF THE NE 1/4 OF SAID SECTION 8, SAID POINT BEING TO THE WESTERLY OF THE CENTERLINE OF STATE HIGHWAY DESIGNATED ROUTE 00 (71 BY-PASS), AS MEASURED AT RIGHT ANGLES THERETO; THENCE SOUTH 3 DEGREES 14 MINUTES 23 SECONDS WEST PARALLELING SAID HIGHWAY CENTERLINE, 158 FEET; THENCE WEST PARALLELING THE SOUTH LINE OF SAID 1/4 OF 1/4 SECTION, A DISTANCE OF 432 FEET; THENCE NORTH PARALLELING THE EAST LINE OF SAID 1/4 OF 1/4 SECTION, A DISTANCE OF 75 FEET; THENCE NORTHEASTERLY ALONG A STRAIGHT LINE TO THE POINT OF BEGINNING.

TRACT 7: (MISSOURI WARRANTY DEED, BOOK 1869, AT PAGE 312)(DEED 7)

BEGINNING AT A POINT 1320.0 FEET NORTH OF THE EAST-WEST CENTER LINE OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, AND ON THE EAST LINE OF THE EAST 1/2 OF THE NORTH 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION; THENCE WEST 186.3; THENCE NORTH 100 FEET; THENCE EAST 186.3 FEET TO A POINT ON THE EAST LINE; THENCE SOUTH ON SAID EAST LINE 100 FEET TO THE POINT OF BEGINNING, EXCEPTING THEREFROM THAT PART SITUATED IN US HIGHWAY 71 BY-PASS.

TRACT 8: (MISSOURI WARRANTY DEED, BOOK 1869, AT PAGE 313)(DEED 8)

ALL OF THE SOUTH 3 ACRES OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, EXCEPT THE WEST 327 FEET THEREOF AND ALSO EXCEPT THE SOUTH 100 FEET OF THE EAST 186.3 FEET THEREOF.

TRACT 9: (MISSOURI WARRANTY DEED, BOOK 1-79, AT PAGE 635)(DEED 9)

THE EAST 88.5 FEET OF THAT PART OF LOT 1, MUCKEY ADDITION, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, LYING SOUTH OF THE SOUTH LINE OF 6TH STREET, AS SAID STREET IS DESCRIBED IN DEED RECORDED IN BOOK 1039 AT PAGE 122, EXCEPT THE NORTH 155 FEET OF SAID EAST 88.5 FEET.

TRACT 10: (MISSOURI WARRANTY DEED, BOOK 551, AT PAGE 135)(DEED 10)

ALL OF THE NORTH 3 ACRES OF THE SOUTH 5 ACRES OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47, RANGE 31, EXCEPT ALL THE WEST 327 FEET THEREOF MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT 198 FEET NORTH OF THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47, RANGE 31 AND RUNNING THENCE EAST 327 FEET; THENCE NORTH 132 FEET; THENCE WEST 327 FEET; THENCE SOUTH 132 FEET TO POINT OF BEGINNING, ALL IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.

TRACT 11: (MISSOURI WARRANTY DEED, BOOK 623, AT PAGE 833)(DEED 11)

THE SOUTH 220 FEET OF THE WEST 88.5 FEET OF LOT 1, MUCKEY ADDITION, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.

### PREPARED FOR:

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### PREPARED BY:

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### HORIZONTAL AND VERTICAL DATUM:

UNLESS OTHERWISE NOTED THE COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE (1983) WEST ZONE (NAD 1983) (NAD 1983)  
CA: 0.9999878  
SCALED AROUND 0.0

JA-28 (P.D. 095026)

NORTHING: 303546.030 (GRID/METERS) 986313.829 (GROUND/FEET)  
EASTING: 806950.475 (GRID/METERS) 2824923.692 (GROUND/FEET)  
ELEVATION: 321.8 (METERS) 1055.77 (FEET)

### SITE BENCHMARKS:

BM-60  
FOUND CUT SQUARE AT THE WEST NORTHWEST CONCRETE HEADWALL ON THE WEST SIDE OF THE EAST ENTRY DRIVE TO LEE'S SUMMIT HIGH SCHOOL  
ELEVATION= 1042.70

BM-61  
SET CUT SQUARE WITH PUNCH IN THE SOUTHWEST EDGE ON A CONCRETE LIGHT BASE ON THE NORTH SIDE OF THE DRIVE LANE AT THE HIGH SCHOOL ADMINISTRATION CENTER ENTRY.  
ELEVATION= 1042.74

BM-62  
SET CUT SQUARE AT THE NORTHEAST CORNER OF THE FIRST STEP UP OF A CONCRETE WALK ON THE NORTH SIDE OF THE EAST MAIN WING.  
ELEVATION= 1040.51

BM-63  
SET CUT SQUARE AT THE TOP NORTHEAST CORNER OF A CONCRETE PATIO WITH COVERED TABLES ON THE EAST SIDE OF BUILDING "B".  
ELEVATION= 1015.74

BM-64  
SET CUT SQUARE AT THE TOP NORTHEAST CORNER OF STEPS TO THE NORTH ENTRY TO BUILDING "B" ON THE WEST SIDE.  
ELEVATION= 1015.34

### FLOOD STATEMENT:

THE SURVEYED PARCEL LIES WITHIN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DETERMINED BY FEMA FLOOD INSURANCE RATE MAP NUMBER 29095C0438G, MAP REVISED JANUARY 20, 2017, AND BY MAP NUMBER 29095C0436G, REVISED JANUARY 20, 2017 LEE'S SUMMIT, JACKSON COUNTY, MISSOURI. LOCATION DETERMINED BY A SCALED GRAPHICAL PLOT OF THE FLOOD INSURANCE RATE MAP.

### MARKING MATERIALS: APWA 2306.7G

PARKING STALLS STRIPING AND SYMBOLS

ALL SURFACES - TRAFFIC MARKING PAINT. COLOR AS INDICATED.

AC	AIR CONDITIONER	DI	DUCTILE IRON PIPE	EE	UNDERGROUND ELECTRIC
AO	WALL MOUNTED ELECTRICAL OUTLET	HDPE	HIGH DENSITY POLYETHYLENE	EOU	OVERHEAD UTILITY LINE (# OF LINES)
UG	UNDERGROUND GAS	WM	WALL MOUNTED LIGHT	FB	PULL BOX
GM	GAS METER	LP	LIGHT POLE	GP	UTILITY POLE
CT	CONTROL POINT	GV	GAS VALVE	ULP	UTILITY POLE W/ LIGHT
BP	BENCHMARK	GR	GAS RISER	UTP	UTILITY POLE W/ TRANSFORMER
GP	GATE POST	GLS	GAS LINE SIGN	GA	GUY ANCHOR
CF	CHAIN LINK FENCE	ES	ENCROACHMENT IDENTIFIER	WR	WATER LINE PER RECORD
WF	WOOD FENCE	EX	EXISTING SPOT ELEVATION	ER	UNDERGROUND ELECTRIC PER RECORD
B	BOLLARD	EG5	EXISTING GRADE 5' CONTOUR	CT	CONIFEROUS TREE
ST	STREET/TRAFFIC SIGN	EG9	EXISTING GRADE 9' CONTOUR	TL	TREE LINE
PA	PAINTED DIRECTIONAL ARROW	DE	DOOR ELEVATION	FP	FLAG POLE
TD	TURN LANE DIRECTION	AT	AT THRESHOLD	EM	ELECTRIC METER
SD	SIDING	FF	FINISH FLOOR ELEVATION	UE	UNDERGROUND ELECTRIC PEDESTAL
PC	PARKING STALL COUNT	BHE	BUILDING HEIGHT/ELEVATION	SB	SPEAKER BOX
AS	HANDICAP SIGN	B/B	BACK TO BACK OF CURB MEASUREMENT	BR	BREAKER BOX
HRMP	HANDICAP RAMP	E/E	EDGE TO EDGE OF ASPHALT	GR	UNDERGROUND GAS PER RECORD
WS	WHEEL STOP	W	WATER LINE	SR	SANITARY SEWER LINE PER RECORD
FOO	UNDERGROUND FIBER OPTIC CABLE	WMV	WATER METER	SE	STORM SEWER LINE PER RECORD
FOUR	UNDERGROUND FIBER OPTIC (FROM RECORDS)	WV	WATER DATE VALVE	AM	ASPHALT MILL AND/OR OVERLAY
BB	TELEPHONE PEDESTAL	HY	FIRE HYDRANT	AO	ASPHALT PAVEMENT (040)
SS	SANITARY SEWER MANHOLE	SC	SPRINKLER CONTROL BOX	HA	HEAVY DUTY ASPHALT PAVEMENT (041)
SM	STORM SEWER MANHOLE	W	WATER MANHOLE	CP	CONCRETE PAVEMENT (042)
AI	AIR INLET	SP	SPRINKLER VALVE	CG	CONCRETE CURB AND GUTTER
CI	CURB INLET	SCC	SIAMSE FIRE CONNECTOR	CCG	CONCRETE CURB AND GUTTER WITH REVERSE FLOW
CS	SANITARY SEWER CLEAN OUT	CS	CANOPY SUPPORT	L	LANDING
DS	DOWN SPOUT	MB	MAIL BOX	R	RAMP
FD	FLOOR DRAIN	CC	CONCRETE JOINT/CUT LINE	T	TRANSITION
FS	FLARED END SECTION	B	BUSH	SC	SECTION CORNER
SS	SANITARY SEWER LINE	Y/E	TRASH ENCLOSURE	O	MONUMENT FOUND (ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED)
SW	STORM SEWER LINE	L/S	LANDSCAPING AREA	1/2"x24"	REBAR W/214" CAP SET (UNLESS NOTED OTHERWISE)
CMP	CORRUGATED METAL PIPE	CONC	CONCRETE	M	MAGNAIL W/ WASHER SET (UNLESS NOTED OTHERWISE)
RCP	REINFORCED CONCRETE PIPE	LW	LOWEST WIRE HEIGHT	CH	CHEELED PLUS SET (UNLESS NOTED OTHERWISE)
VCP	VITRIFIED CLAY PIPE			MV	MEASURED VALUE

### LEGEND:

DI	DUCTILE IRON PIPE	EE	UNDERGROUND ELECTRIC
HDPE	HIGH DENSITY POLYETHYLENE	EOU	OVERHEAD UTILITY LINE (# OF LINES)
WM	WALL MOUNTED LIGHT	FB	PULL BOX
LP	LIGHT POLE	GP	UTILITY POLE
GV	GAS VALVE	ULP	UTILITY POLE W/ LIGHT
GR	GAS RISER	UTP	UTILITY POLE W/ TRANSFORMER
GLS	GAS LINE SIGN	GA	GUY ANCHOR
ES	ENCROACHMENT IDENTIFIER	WR	WATER LINE PER RECORD
EX	EXISTING SPOT ELEVATION	ER	UNDERGROUND ELECTRIC PER RECORD
EG5	EXISTING GRADE 5' CONTOUR	CT	CONIFEROUS TREE
EG9	EXISTING GRADE 9' CONTOUR	TL	TREE LINE
DE	DOOR ELEVATION	FP	FLAG POLE
AT	AT THRESHOLD	EM	ELECTRIC METER
FF	FINISH FLOOR ELEVATION	UE	UNDERGROUND ELECTRIC PEDESTAL
BHE	BUILDING HEIGHT/ELEVATION	SB	SPEAKER BOX
B/B	BACK TO BACK OF CURB MEASUREMENT	BR	BREAKER BOX
E/E	EDGE TO EDGE OF ASPHALT	GR	UNDERGROUND GAS PER RECORD
W	WATER LINE	SR	SANITARY SEWER LINE PER RECORD
WMV	WATER METER	SE	STORM SEWER LINE PER RECORD
WV	WATER DATE VALVE	AM	ASPHALT MILL AND/OR OVERLAY
HY	FIRE HYDRANT	AO	ASPHALT PAVEMENT (040)
SC	SPRINKLER CONTROL BOX	HA	HEAVY DUTY ASPHALT PAVEMENT (041)
W	WATER MANHOLE	CP	CONCRETE PAVEMENT (042)
SP	SPRINKLER VALVE	CG	CONCRETE CURB AND GUTTER
SCC	SIAMSE FIRE CONNECTOR	CCG	CONCRETE CURB AND GUTTER WITH REVERSE FLOW
CS	CANOPY SUPPORT	L	LANDING
MB	MAIL BOX	R	RAMP
CC	CONCRETE JOINT/CUT LINE	T	TRANSITION
B	BUSH	SC	SECTION CORNER
Y/E	TRASH ENCLOSURE	O	MONUMENT FOUND (ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED)
L/S	LANDSCAPING AREA	1/2"x24"	REBAR W/214" CAP SET (UNLESS NOTED OTHERWISE)
CONC	CONCRETE	M	MAGNAIL W/ WASHER SET (UNLESS NOTED OTHERWISE)
LW	LOWEST WIRE HEIGHT	CH	CHEELED PLUS SET (UNLESS NOTED OTHERWISE)
		MV	MEASURED VALUE
		(C)	CALCULATED
		(D)	DEED VALUE
		(P)	PLAT VALUE
		(CP)	CALCULATED PLAT VALUE
		(CM)	CALCULATED MEASURED VALUE
		(R)	RECORD VALUE
		SS/E	SANITARY SEWER EASEMENT
		D/E	STORM DRAINAGE EASEMENT

### NOTE:

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
2. THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS.
3. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.
4. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.
5. ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.

PROJ. NO. C20-0496 DSK: DWJ  
CIN: 0496SP.DWG DWN: NJN  
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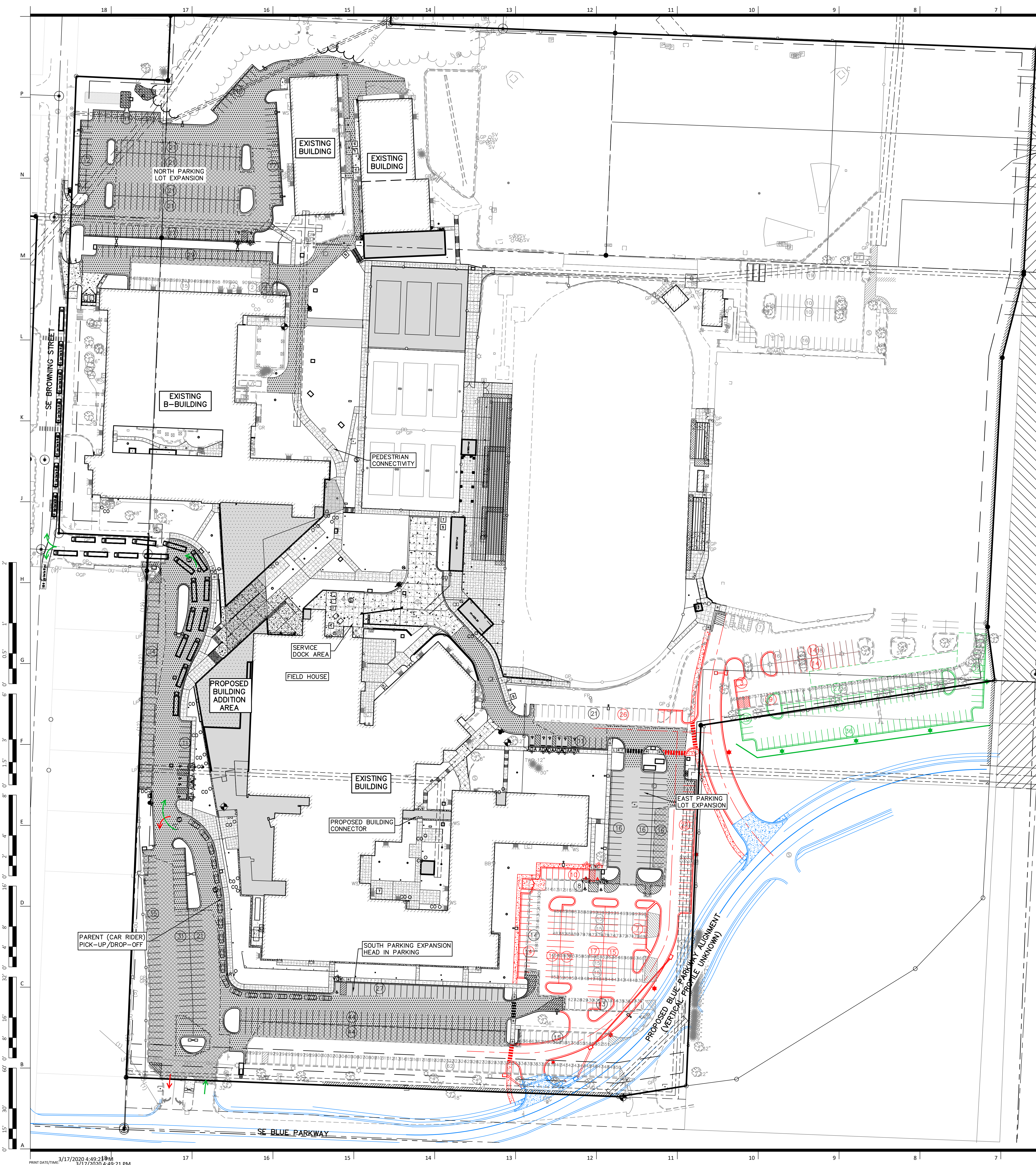
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High School

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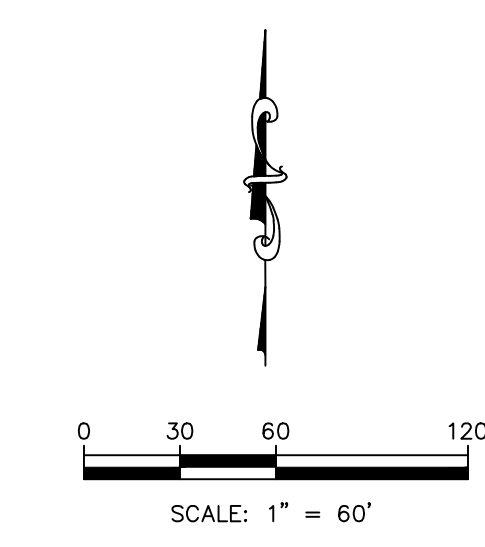
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Kaw Valley Engineering  
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# LEE'S SUMMIT HIGH SCHOOL PROPOSED MASTER PARKING PLAN



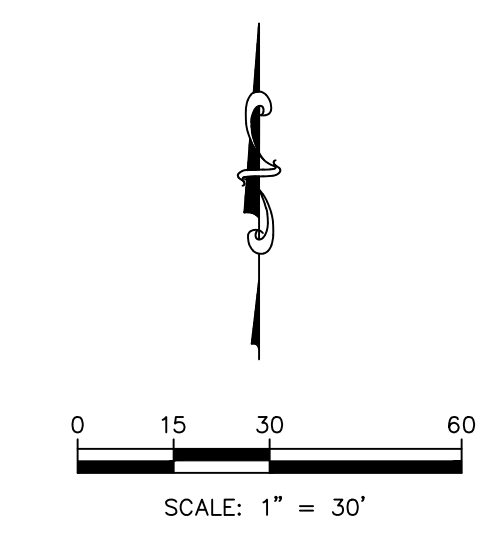
**PARKING:**  
EXISTING: 1,166 STALLS (18 ADA)  
PROPOSED AFTER BOND PROJECT: 1,154 STALLS (22 ADA)

**SE BLUE PARKWAY RELOCATION CITY OF LEE'S SUMMIT TIF PROJECT.  
(NOT PART OF THIS PROJECT.)**  
SOUTHEAST LOT ONLY AND STADIUM DRIVE: 1,091 STALLS (22 ADA) (SEE AREA IN RED)  
ADD ATHLETICS LOT: 1,165 STALLS (22 ADA)

**TRAFFIC LEGEND:**  
← BUS DROP-OFF  
← PARENT DROP-OFF / PICK-UP

**LEGEND:**  
FULL DEPTH ASPHALT PAVING  
HEAVY DUTY CONCRETE PAVING  
SIDEWALK  
CURB AND GUTTER

SE BLUE PARKWAY RELOCATION IS  
NOT PART OF THIS PROJECT.  
FUTURE IMPROVEMENTS BY OTHERS.



PROJ. NO. C20\_0496 DSN: DDW  
CFN: 0496MASTER PARKING

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KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER  
ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF  
AUTHORITY # 000842. EXPIRES 12/31/21

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## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

architect:  
**Gould Evans**  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
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structural engineer:  
**Bob D. Campbell & Company, Inc.**  
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civil engineer:  
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913.485.0318

mechanical/electrical engineer:  
**Henderson Engineers**  
1801 Main St  
Kansas City, MO 64108  
816.663.8700

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Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

REVISIONS		
Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

PROJ. NO. C20\_0496 DSN: DDW  
CFN: 0496MASTER PARKING

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KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER  
ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF  
AUTHORITY # 000842. EXPIRES 12/31/21

C105

Issued for Construction



# Lee's Summit High School

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3	3	PER CITY COMMENTS	12-29-2020
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CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

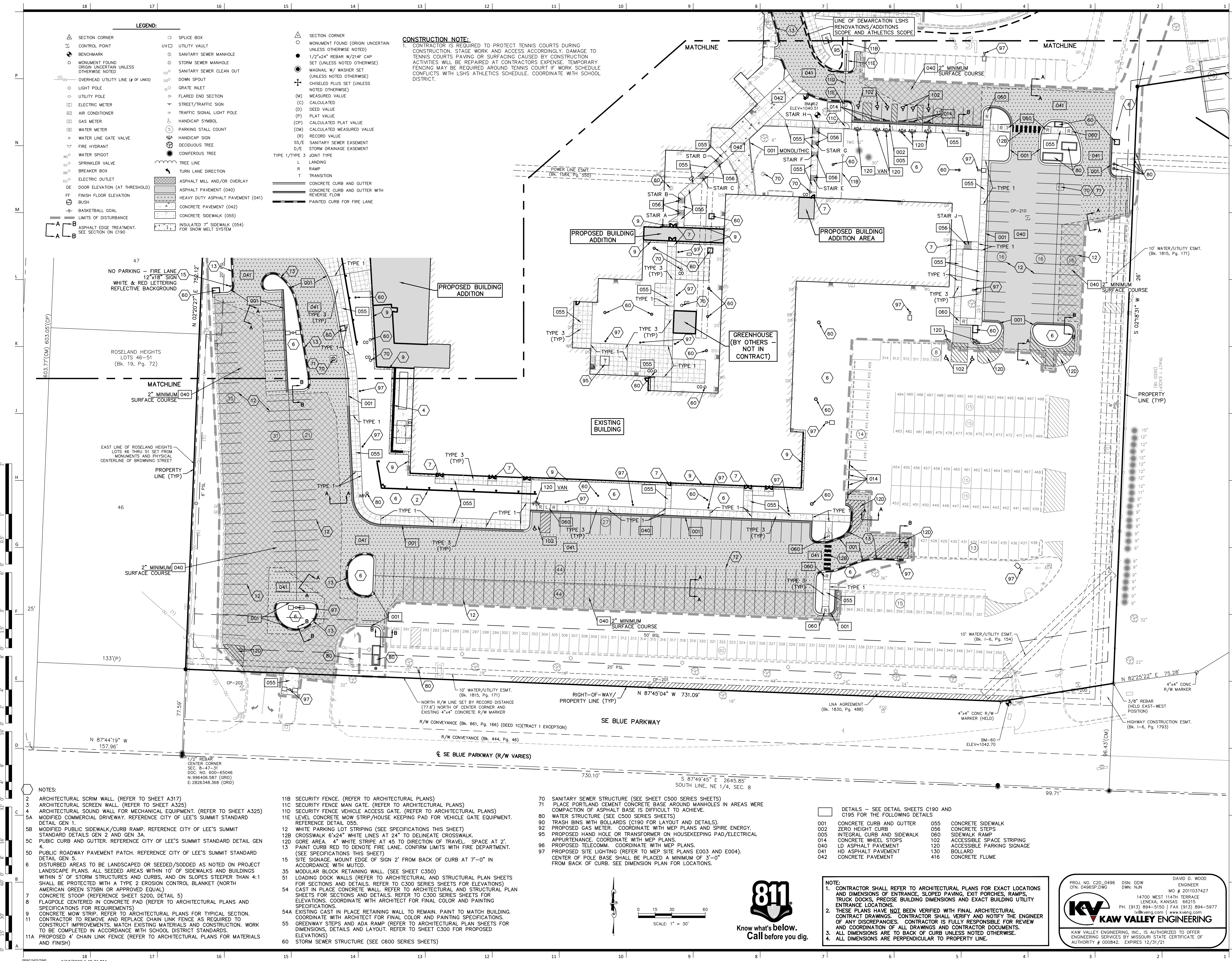
PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

SITE PLAN - SOUTH

# C110

Issued for Construction





# Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

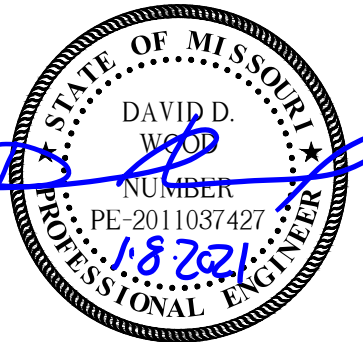
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Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
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1	ADDENDUM #1 PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	11-19-2020
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3	PER CITY COMMENTS	12-29-2020
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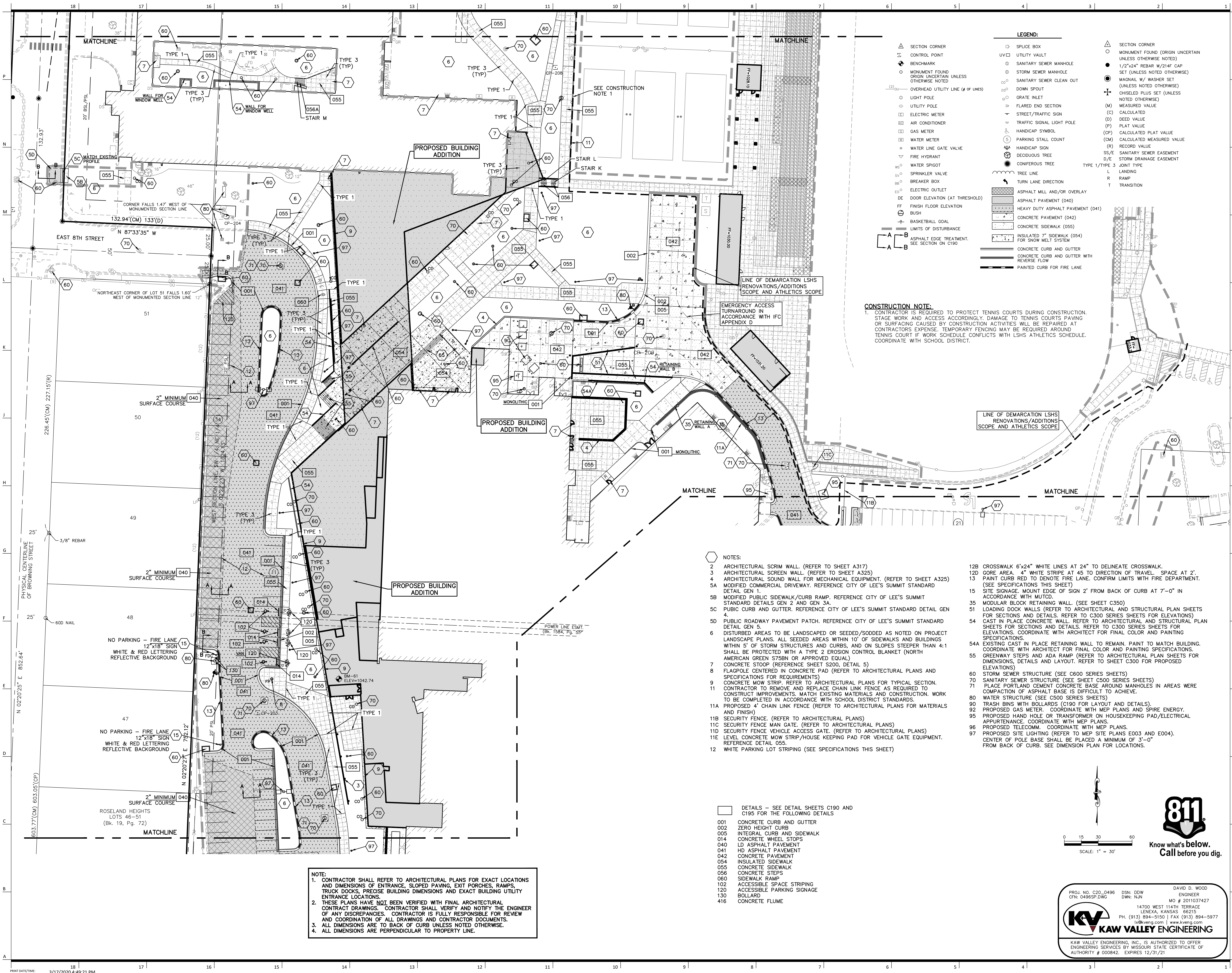
PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

SITE PLAN - MIDDLE

# C120

Issued for Construction

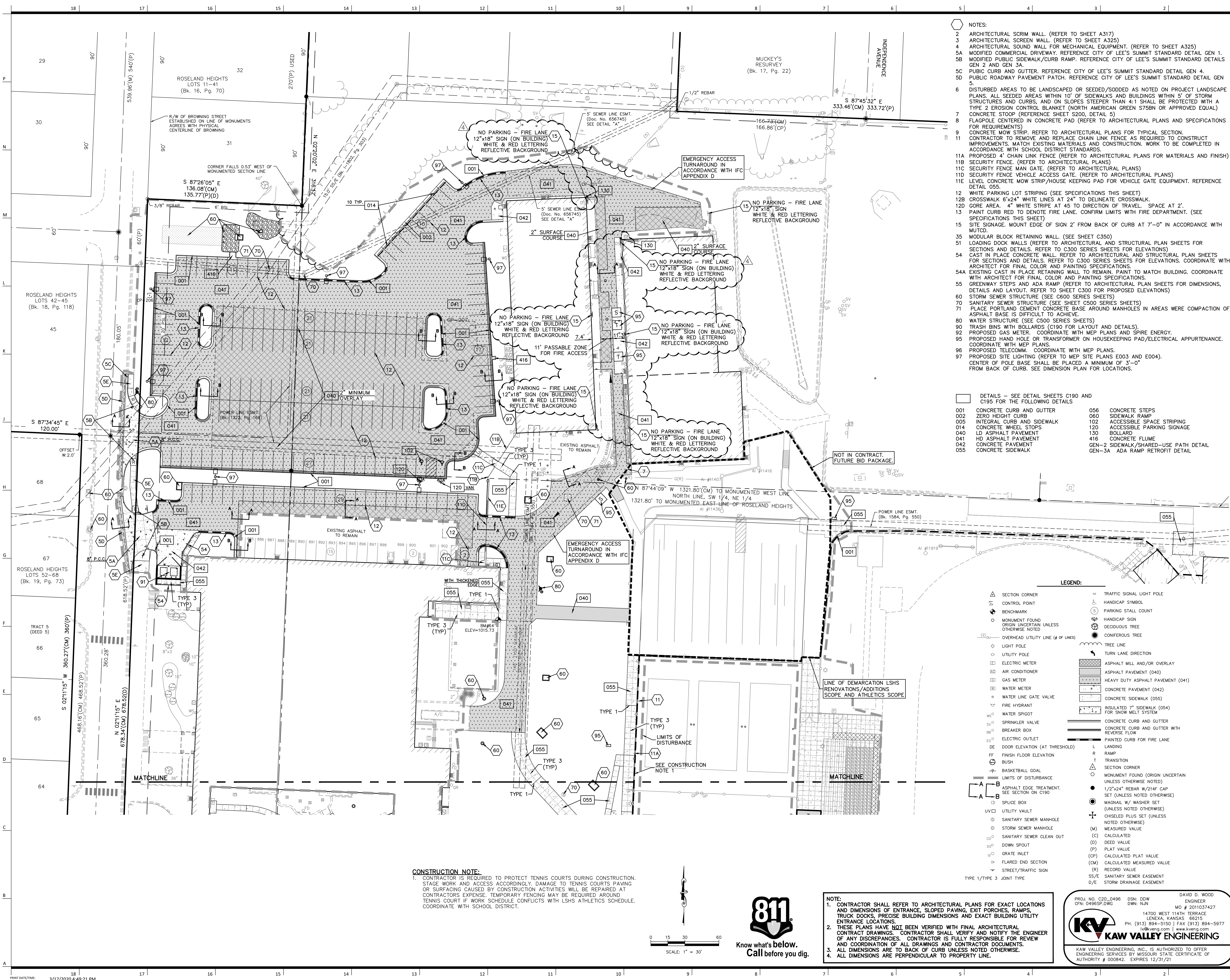


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- NOTES:
- ARCHITECTURAL SCRM WALL. (REFER TO SHEET A317)
  - ARCHITECTURAL SCREEN WALL. (REFER TO SHEET A325)
  - ARCHITECTURAL SOUND WALL FOR MECHANICAL EQUIPMENT. (REFER TO SHEET A325)
  - MODIFIED COMMERCIAL DRIVEWAY. REFERENCE CITY OF LEE'S SUMMIT STANDARD DETAIL GEN 1.
  - MODIFIED PUBLIC SIDEWALK/CURB RAMP. REFERENCE CITY OF LEE'S SUMMIT STANDARD DETAILS GEN 2 AND GEN 3A.
  - PUBLIC CURB AND GUTTER. REFERENCE CITY OF LEE'S SUMMIT STANDARD DETAIL GEN 4.
  - PUBLIC ROADWAY PAVEMENT PATCH. REFERENCE CITY OF LEE'S SUMMIT STANDARD DETAIL GEN 5.
  - DISTURBED AREAS TO BE LANDSCAPED OR SEEDED/SODDED AS NOTED ON PROJECT LANDSCAPE PLAN. ALL SEEDING AREAS WITHIN 10' OF STORM STRUCTURES AND BUILDINGS WITHIN 5' OF STORM STRUCTURES AND CURBS, AND ON SLOPES STEEPER THAN 4:1 SHALL BE PROTECTED WITH A TYPE 2 EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S758N OR APPROVED EQUAL).
  - CONCRETE STOOP (REFERENCE SHEET S200, DETAIL 5)
  - FLAGPOLE CENTERED IN CONCRETE PAD (REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR REQUIREMENTS)
  - CONCRETE MOW STRIP. REFER TO ARCHITECTURAL PLANS FOR TYPICAL SECTION.
  - CONTRACTOR TO REMOVE AND REPLACE CHAIN LINK FENCE AS REQUIRED TO CONSTRUCT IMPROVEMENTS. MATCH EXISTING MATERIALS AND CONSTRUCTION. WORK TO BE COMPLETED IN ACCORDANCE WITH SCHOOL DISTRICT STANDARDS.
  - PROPOSED 4" CHAIN LINK FENCE (REFER TO ARCHITECTURAL PLANS FOR MATERIALS AND FINISH)
  - SECURITY FENCE. (REFER TO ARCHITECTURAL PLANS)
  - SECURITY FENCE MAN GATE. (REFER TO ARCHITECTURAL PLANS)
  - SECURITY FENCE VEHICLE ACCESS GATE. (REFER TO ARCHITECTURAL PLANS)
  - LEVEL CONCRETE MOW STRIP/HOUSE KEEPING PAD FOR VEHICLE GATE EQUIPMENT. REFERENCE DETAIL 055.
  - WHITE PARKING LOT STRIPING (SEE SPECIFICATIONS THIS SHEET)
  - CROSSWALK 6"x24" WHITE LINES AT 24" TO DELINEATE CROSSWALK.
  - GORE AREA. 4" WHITE STRIPE AT 45° TO DIRECTION OF TRAVEL. SPACE AT 2'.
  - PAINT CURB RED TO DEMOTE FIRE LANE. CONFIRM LIMITS WITH FIRE DEPARTMENT. (SEE SPECIFICATIONS THIS SHEET)
  - SITE SIGNAGE. MOUNT EDGE OF SIGN 2' FROM BACK OF CURB AT 7'-0" IN ACCORDANCE WITH MUTCD.
  - MODULAR BLOCK RETAINING WALL. (SEE SHEET C350)
  - LOADING DOCK WALLS (REFER TO ARCHITECTURAL AND STRUCTURAL PLAN SHEETS FOR SECTIONS AND DETAILS. REFER TO C300 SERIES SHEETS FOR ELEVATIONS)
  - CAST IN PLACE CONCRETE WALL. REFER TO ARCHITECTURAL AND STRUCTURAL PLAN SHEETS FOR SECTIONS AND DETAILS. REFER TO C300 SERIES SHEETS FOR ELEVATIONS. COORDINATE WITH ARCHITECT FOR FINAL COLOR AND PAINTING SPECIFICATIONS.
  - EXISTING CAST IN PLACE RETAINING WALL TO REMAIN. PAINT TO MATCH BUILDING. COORDINATE WITH ARCHITECT FOR FINAL COLOR AND PAINTING SPECIFICATIONS.
  - GREENWAY STEPS AND ADA RAMP (REFER TO ARCHITECTURAL PLAN SHEETS FOR DIMENSIONS, DETAILS AND LAYOUT. REFER TO SHEET C300 FOR PROPOSED ELEVATIONS)
  - STORM SEWER STRUCTURE (SEE C600 SERIES SHEETS)
  - SANITARY SEWER STRUCTURE (SEE SHEET C500 SERIES SHEETS)
  - PLACE PORTLAND CEMENT CONCRETE BASE AROUND MANHOLES IN AREAS WHERE COMPACTION OF ASPHALT BASE IS REQUIRED TO ACHIEVE.
  - WATER STRUCTURE (SEE C500 SERIES SHEETS)
  - TRASH BINS WITH BOLLARDS (C190 FOR LAYOUT AND DETAILS).
  - PROPOSED GAS METER. COORDINATE WITH MEP PLANS AND SPIRE ENERGY.
  - PROPOSED HAND HOLE OR TRANSFORMER ON HOUSEKEEPING PAD/ELECTRICAL APPURTENANCE. COORDINATE WITH MEP PLANS.
  - PROPOSED TELECOMM. COORDINATE WITH MEP PLANS.
  - PROPOSED SITE LIGHTING (REFER TO MEP SITE PLANS E003 AND E004).
  - CENTER OF POLE BASE SHALL BE PLACED A MINIMUM OF 3'-0" FROM BACK OF CURB. SEE DIMENSION PLAN FOR LOCATIONS.

- DETAILS - SEE DETAIL SHEETS C190 AND C195 FOR THE FOLLOWING DETAILS:
- |                                |                                       |
|--------------------------------|---------------------------------------|
| 001 CONCRETE CURB AND GUTTER   | 056 CONCRETE STEPS                    |
| 002 ZERO HEIGHT CURB           | 060 SIDEWALK RAMP                     |
| 005 INTEGRAL CURB AND SIDEWALK | 102 ACCESSIBLE SPACE STRIPING         |
| 014 CONCRETE WHEEL STOPS       | 120 ACCESSIBLE PARKING SIGNAGE        |
| 040 LD ASPHALT PAVEMENT        | 130 BOLLARD                           |
| 041 HD ASPHALT PAVEMENT        | 416 CONCRETE FLUME                    |
| 042 CONCRETE PAVEMENT          | GEN-2 SIDEWALK/SHARED-USE PATH DETAIL |
| 055 CONCRETE SIDEWALK          | GEN-SA ADA RAMP RETROFIT DETAIL       |

- LEGEND:
- |  |  |
|--|--|
| SECTION CORNER   | TRAFFIC SIGNAL LIGHT POLE                                |
| CONTROL POINT  | HANDICAP SYMBOL  |
| BENCHMARK  | PARKING STALL COUNT                                      |
| MONUMENT FOUND ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED | HANDICAP SIGN  |
| OVERHEAD UTILITY LINE (# OF LINES)                     | DECIDUOUS TREE   |
| LIGHT POLE   | CONFEROUS TREE   |
| UTILITY POLE   | TREE LINE  |
| ELECTRIC METER   | TURN LANE DIRECTION                                      |
| AIR CONDITIONER  | ASPHALT MILL AND/OR OVERLAY                              |
| GAS METER  | ASPHALT PAVEMENT (040)                                   |
| WATER METER  | HEAVY DUTY ASPHALT PAVEMENT (041)                        |
| WATER LINE GATE VALVE                                  | CONCRETE PAVEMENT (042)                                  |
| FIRE HYDRANT   | CONCRETE SIDEWALK (055)                                  |
| WATER SPOUT  | INSULATED 3" SIDEWALK (054)                              |
| SPRINKLER VALVE  | FOR SNOW MELT SYSTEM                                     |
| BREAKER BOX  | CONCRETE CURB AND GUTTER                                 |
| ELECTRIC OUTLET  | CONCRETE CURB AND GUTTER WITH REVERSE FLOW               |
| DOOR ELEVATION (AT THRESHOLD)                          | PAINTED CURB FOR FIRE LANE                               |
| FINISH FLOOR ELEVATION                                 | L LANDING  |
| BUSH   | R RAMP   |
| BASKETBALL GOAL  | T TRANSITION   |
| LIMITS OF DISTURBANCE                                  | SECTION CORNER   |
| ASPHALT EDGE TREATMENT. SEE SECTION ON C190            | MONUMENT FOUND (ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED) |
| SPICE BOX  | 1/2"x24" REBAR W/214F CAP SET (UNLESS NOTED OTHERWISE)   |
| UTILITY VAULT  | MAGNAIL W/ WASHER SET (UNLESS NOTED OTHERWISE)           |
| SANITARY SEWER MANHOLE                                 | CHISELED PLUS SET (UNLESS NOTED OTHERWISE)               |
| SANITARY SEWER CLEAN OUT                               | (M) MEASURED VALUE                                       |
| DOWN SPOUT   | (C) CALCULATED   |
| GRATE INLET  | (D) DEED VALUE   |
| FLARED END SECTION                                     | (P) PLAT VALUE   |
| STREET/TRAFFIC SIGN                                    | (CP) CALCULATED PLAT VALUE                               |
| TYPE 1/TYPE 3 JOINT TYPE                               | (CM) CALCULATED MEASURED VALUE                           |
|  | (R) RECORD VALUE   |
|  | SS/E SANITARY SEWER EASEMENT                             |
|  | D/E STORM DRAINAGE EASEMENT                              |

**CONSTRUCTION NOTE:**

- CONTRACTOR IS REQUIRED TO PROTECT TENNIS COURTS DURING CONSTRUCTION. STAGE WORK AND ACCESS ACCORDINGLY. DAMAGE TO TENNIS COURTS PAVING OR SURFACING CAUSED BY CONSTRUCTION ACTIVITIES WILL BE REPAIRED AT CONTRACTORS EXPENSE. TEMPORARY FENCING MAY BE REQUIRED AROUND TENNIS COURT IF WORK SCHEDULE CONFLICTS WITH LSHS ATHLETICS SCHEDULE. COORDINATE WITH SCHOOL DISTRICT.

**NOTE:**

- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.
- ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.

PROJ. NO. C20-0496 DSN: DDW DAVID D. WOOD  
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**DAVID D. WOOD**  
Professional Engineer  
PE-2011037427  
12/29/2020

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**REVISIONS**

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**RELEASE FOR CONSTRUCTION**  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

**SITE PLAN - NORTH**

# C130

Issued for Construction



ASPHALT MILL AND OVERLAY NOTES:

PAVING SHALL BE IN ACCORDANCE WITH APWA TECHNICAL SPECIFICATIONS SECTION 2207 AS AMENDED BELOW.

MILLING FOR THE DRIVES AND PARKING LOTS SHALL BE COLD MILLED AS FOLLOWS:

- EQUIPMENT: MILLING THE SURFACE OF PAVEMENTS SHALL BE COMPLETED BY USE OF A MILLING MACHINE CONFORMING TO THE FOLLOWING.
  - MACHINE: THE COLD MILLING MACHINE SHALL BE SELF-PROPELLED AND SHALL HAVE IN COMBINATION THE MEANS OF MILLING AND CUTTING, WITHOUT SOFTENING THE OLD SURFACE AND BLADING THE CUTTING INTO A SINGLE WINDOW, OR DEPOSITING THEM DIRECTLY INTO A TRUCK.
  - AIR POLLUTION: THE MACHINE SHALL BE EQUIPPED WITH A DUST SUPPRESSION SYSTEM INCLUDING WATER STORAGE TANKS AND HIGH PRESSURE SPRAY BARS.
  - OPERATING WIDTH: IT IS DESIRABLE THAT THE CUTTING WIDTH BE GREATER THAN 6 FEET (2 m). IN THE EVENT THE CUTTING WIDTH IS LESS THAN 6 FEET (2 m) CONTRACTOR IS RESPONSIBLE FOR ENSURING GRADE CONTROL, AS NOTED ON PLANS.
  - CUTTING DRUM: THE CUTTING DRUM SHALL BE TOTALLY ENCLOSED TO PREVENT DISCHARGE OF ANY LOOSENED MATERIAL ADJACENT TO WORK AREAS.
- CONSTRUCTION DETAILS
  - METHODS OF OPERATIONS FOR MILLING:
    - OPERATOR: THE MILLING MACHINE SHALL BE OPERATED BY AN EXPERIENCED AND CAPABLE OPERATOR.
    - UTILITIES: STREET SURFACES ADJACENT TO MANHOLE, WATER VALVES AND OTHER UTILITY EXTENSIONS, SHALL BE COMPLETELY REMOVED TO THE FULL DEPTH THE CUT SPECIFIED FOR THE STREET UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
    - MATERIAL DISPOSAL: THE MATERIAL WITHDRAWN BY THE MACHINE SHALL BE REMOVED FROM THE SURFACE OF THE PAVEMENT AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
    - SURFACE CONDITIONS: THE DRUM LACING PATTERNS SHALL PRODUCE A SMOOTH SURFACE AFTER MILLING WITH GROOVE DEPTHS NOT TO EXCEED 1/4 INCH (0.64 cm) AND GROOVE SPACING NOT TO EXCEED 1 INCH (2.54 cm) UNLESS OTHERWISE APPROVED BY THE ENGINEER.
  - TYPES OF CUTS TO BE MADE BY MILLING:
    - LEVELING: SUFFICIENT PASSES SHALL BE MADE SUCH THAT ALL IRREGULARITIES OR HIGH SPOTS ARE ELIMINATED, AND THAT 100% OF THE SURFACE IS MILLED.
    - AVERAGE DEPTH: SUFFICIENT PASSES, OR CUTS, SHALL BE MADE IN ORDER TO REMOVE A SPECIFIED DEPTH OVER THE ENTIRE STREET SECTION, THESE DEPTHS WILL BE DESIGNATED ON THE PLANS.
    - CURB CUT: SUFFICIENT PASSES, OR CUTS, SHALL BE MADE IN ORDER TO REMOVE A SPECIFIED DEPTH AT THE CURB FOR A SPECIFIED WIDTH. THE DEPTH AT THE WIDTH FURTHEST FROM THE CURB IS 0. THESE DIMENSIONS WILL BE DESIGNATED ON THE PLANS.
    - CLEANUP: ALL LOOSE ASPHALT AND DEBRIS SHALL BE REMOVED FROM THE STREET SURFACE AND CURB AND GUTTER. ANY MATERIAL AND DEBRIS THAT ADHERES TO THE CURB AND GUTTER SHALL BE REMOVED.

CRACKS: AFTER SURFACE MILLING DETERIORATED (FATIGUE, CRACKED OR RAVELED) BLOCK CRACKS AND TRANSVERSE CRACKS THAT HAVE A WIDTH GREATER THAN 1.5-INCHES SHALL BE MILLED OR MECHANICALLY ROUTED OUT TO A MINIMUM DEPTH OF 2-INCHES AND PATCHED WITH A HOT MIX ASPHALT PRIOR TO OVERLAY. UNDETERIORATED PAVEMENT CRACKS WITH WIDTHS BETWEEN 1.5-INCHES AND 0.25-INCHES WIDE SHALL BE BLOWN OUT WITH PRESSURIZED AIR OR CLEANED AND DRIED PRIOR TO FILLING WITH AN APPROVED CRACK SEALING MATERIAL SUCH AS CRAFCO ROADSAVER 514, 515, PARKING LOT SEALANT TYPE 1 OR APPROVED EQUAL.

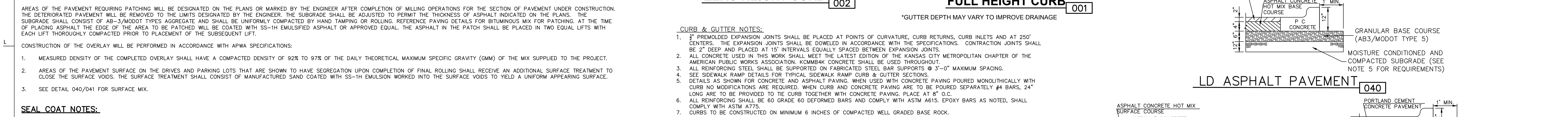
AREAS OF THE PAVEMENT REQUIRING PATCHING WILL BE DESIGNATED ON THE PLANS OR MARKED BY THE ENGINEER AFTER COMPLETION OF MILLING OPERATIONS FOR THE SECTION OF PAVEMENT UNDER CONSTRUCTION. THE DETERIORATED PAVEMENT WILL BE REMOVED TO THE LIMITS DESIGNATED BY THE ENGINEER. THE SUBGRADE SHALL BE ADJUSTED TO PERMIT THE THICKNESS OF ASPHALT INDICATED ON THE PLANS. THE SUBGRADE SHALL CONSIST OF AB-3/MODOT TYPES AGGREGATE AND SHALL BE UNIFORMLY COMPACTED BY HAND TAMPING OR ROLLING. REFERENCE PAVING DETAILS FOR BITUMINOUS MIX FOR PATCHING. AT THE TIME OF PLACING ASPHALT THE EDGE OF THE AREA TO BE PATCHED WILL BE COATED WITH SS-1H EMULSION ASPHALT OR APPROVED EQUAL. THE ASPHALT IN THE PATCH SHALL BE PLACED IN TWO EQUAL LIFTS WITH EACH LIFT THOROUGHLY COMPACTED PRIOR TO PLACEMENT OF THE SUBSEQUENT LIFT.

CONSTRUCTION OF THE OVERLAY WILL BE PERFORMED IN ACCORDANCE WITH APWA SPECIFICATIONS:

- MEASURED DENSITY OF THE COMPLETED OVERLAY SHALL HAVE A COMPACTED DENSITY OF 92% TO 97% OF THE DAILY THEORETICAL MAXIMUM SPECIFIC GRAVITY (GMM) OF THE MIX SUPPLIED TO THE PROJECT.
- AREAS OF THE PAVEMENT SURFACE ON THE DRIVES AND PARKING LOTS THAT ARE SHOWN TO HAVE SEGREGATION UPON COMPLETION OF FINAL ROLLING SHALL RECEIVE AN ADDITIONAL SURFACE TREATMENT TO CLOSE THE SURFACE VOIDS: THE SURFACE TREATMENT SHALL CONSIST OF MANUFACTURED SAND COATED WITH SS-1H EMULSION WORKED INTO THE SURFACE VOIDS TO YIELD A UNIFORM APPEARING SURFACE.
- SEE DETAIL 040/041 FOR SURFACE MIX.

SEAL COAT NOTES:

PAVEMENT SEAL COAT SHALL BE IN ACCORDANCE WITH APWA TECHNICAL SPECIFICATIONS SECTION 2206.6. THE PROPOSED MIX IS TYPE 1



CURB & GUTTER NOTES:

- PREMOLDED EXPANSION JOINTS SHALL BE PLACED AT POINTS OF CURVATURE, CURB RETURNS, CURB INLETS AND AT 250' CENTERS. THE EXPANSION JOINTS SHALL BE DOWELED IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTION JOINTS SHALL BE 2" DEEP AND PLACED AT 15' INTERVALS EQUALLY SPACED BETWEEN EXPANSION JOINTS.
- ALL CONCRETE USED IN THIS WORK SHALL MEET THE LATEST EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION. KOMMBAK CONCRETE SHALL BE USED THROUGHOUT.
- ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPAING.
- SEE SIDEWALK RAMP DETAILS FOR TYPICAL SIDEWALK RAMP CURB & GUTTER SECTIONS.
- DETAILS AS SHOWN FOR CONCRETE AND ASPHALT PAVING. WHEN USED WITH CONCRETE PAVING POURED MONOLITHICALLY WITH CURB NO MODIFICATIONS ARE REQUIRED. WHEN CURB AND CONCRETE PAVING ARE TO BE POURED SEPARATELY #4 BARS, 2' LONG ARE TO BE PROVIDED TO THE CURB TOGETHER WITH CONCRETE PAVING. PLACE AT 8" O.C.
- ALL REINFORCING SHALL BE 60 GRADE 60 DEFORMED BARS AND COMPLY WITH ASTM A615. EPOXY BARS AS NOTED, SHALL COMPLY WITH ASTM A775.
- CURBS TO BE CONSTRUCTED ON MINIMUM 6 INCHES OF COMPACTED WELL GRADED BASE ROCK.

LD ASPHALT PAVEMENT



HD ASPHALT PAVEMENT

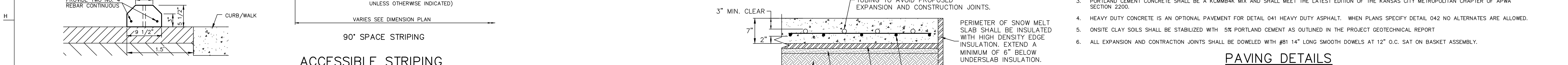
- FLEXIBLE PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST (FEBRUARY 2017) EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200 AS AMENDED BY PROJECT SPECIFICATIONS.

ASPHALT SURFACE COURSE - APWA TYPE 3-01  
ASPHALT BASE COURSE - APWA TYPE 2-01
- TYPE 3-01 SURFACE COURSE SHALL BE VIRGIN ASPHALT. RECYCLED MIXES MEETING APWA SPECIFICATIONS MAY BE CONSIDERED FOR BASE COURSE.
- PORTLAND CEMENT CONCRETE SHALL BE A KOMMBAK MIX AND SHALL MEET THE LATEST EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200.
- HEAVY DUTY CONCRETE IS AN OPTIONAL PAVEMENT FOR DETAIL 041 HEAVY DUTY ASPHALT. WHEN PLANS SPECIFY DETAIL 042 NO ALTERNATES ARE ALLOWED.
- ONSITE CLAY SOILS SHALL BE STABILIZED WITH 5% PORTLAND CEMENT AS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT
- ALL EXPANSION AND CONTRACTION JOINTS SHALL BE DOWELED WITH #81 14" LONG SMOOTH DOWELS AT 12" O.C. SAT ON BASKET ASSEMBLY.

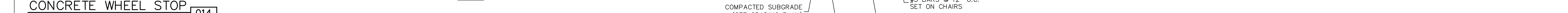
CONCRETE PAVEMENT

SEE NOTE 6 FOR REINFORCING OF CONCRETE PAVEMENT

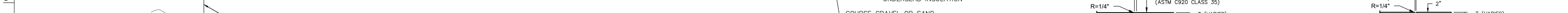
CONCRETE DRAINAGE FLUME



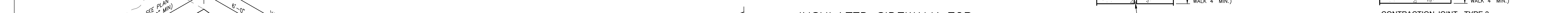
INSULATED SIDEWALK FOR SNOW MELT SYSTEM



CONCRETE WHEEL STOP



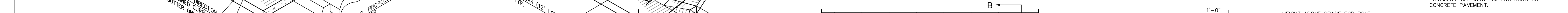
ACCESSIBLE STRIPING



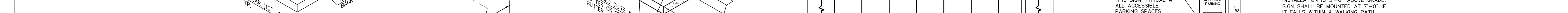
CONCRETE AND SIDEWALK NOTES:

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AND COMPLY WITH KOMMB SPECIFICATIONS. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH APWA SECTION 2200.
- REINFORCING STEEL SHALL BE GRADE 60 AND COMPLY WITH ASTM A615. EPOXY COATED BARS AS NOTED SHALL COMPLY WITH ASTM A775. ALL CUT ENDS OR DAMAGED AREAS SHALL BE FIELD REPAIRED WITH EPOXY COATING.
- SIDEWALKS TO BE BROOM FINISHED.
- SUBGRADE TO BE COMPACTED TO 90% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. MOISTURE CONTENT TO BE WITHIN A RANGE OF 2% BELOW TO 2% ABOVE OPTIMUM MOISTURE AS DEFINED BY ASTM D698.
- SIDEWALK JOINTS MAY BE SAWN UNLESS SHOWN OTHERWISE ON ARCHITECT/LANDSCAPE ARCHITECT PLANS.

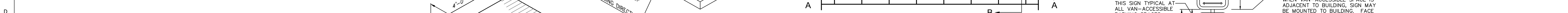
CONCRETE SIDEWALK



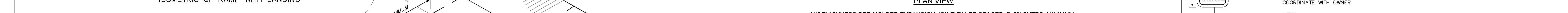
ACCESSIBLE PARKING SIGN



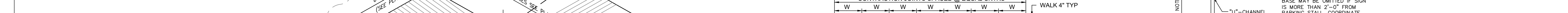
CONCRETE SIDEWALK



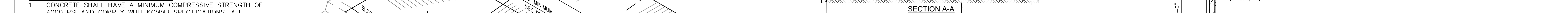
CONCRETE SIDEWALK



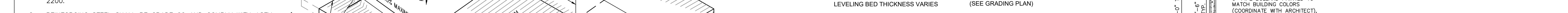
CONCRETE SIDEWALK



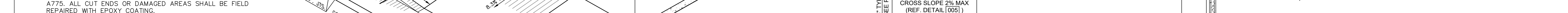
CONCRETE SIDEWALK



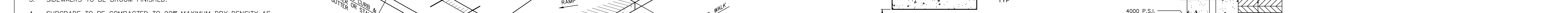
CONCRETE SIDEWALK



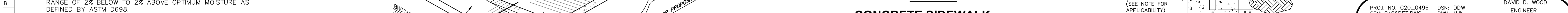
CONCRETE SIDEWALK



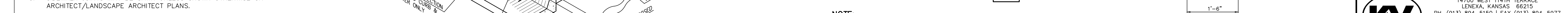
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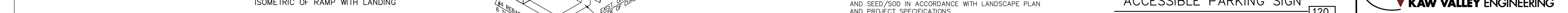
CONCRETE SIDEWALK



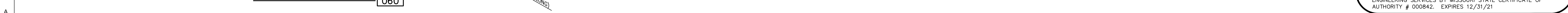
CONCRETE SIDEWALK



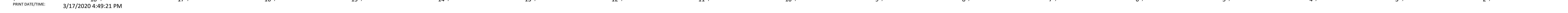
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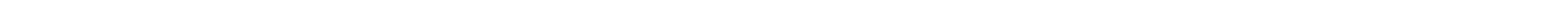
CONCRETE SIDEWALK



CONCRETE SIDEWALK



CONCRETE SIDEWALK



Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

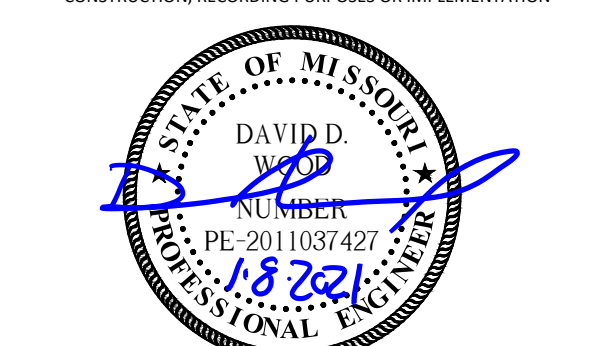
architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.goulddevans.com

structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
Kaw Valley Engineering  
14700 West 114th Terrace  
Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.6700

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Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

REVISIONS

Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

SITE DETAILS

C190

Issued for Construction

PROJ. NO. C20\_0496 DSK: DDW DAVID D. WOOD  
CFN: 04960ET.DWG DWN: NUN ENGINEER  
MO # 2011037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66115  
PH. (913) 694-5150 / FAX (913) 694-5977  
info@kve.com www.kve.com

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/21



## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

architect:  
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Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

Number	DESCRIPTION	DATE
1	ADDENDUM #1 PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	11-19-2020
2	PER CITY COMMENTS WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

SITE DETAILS

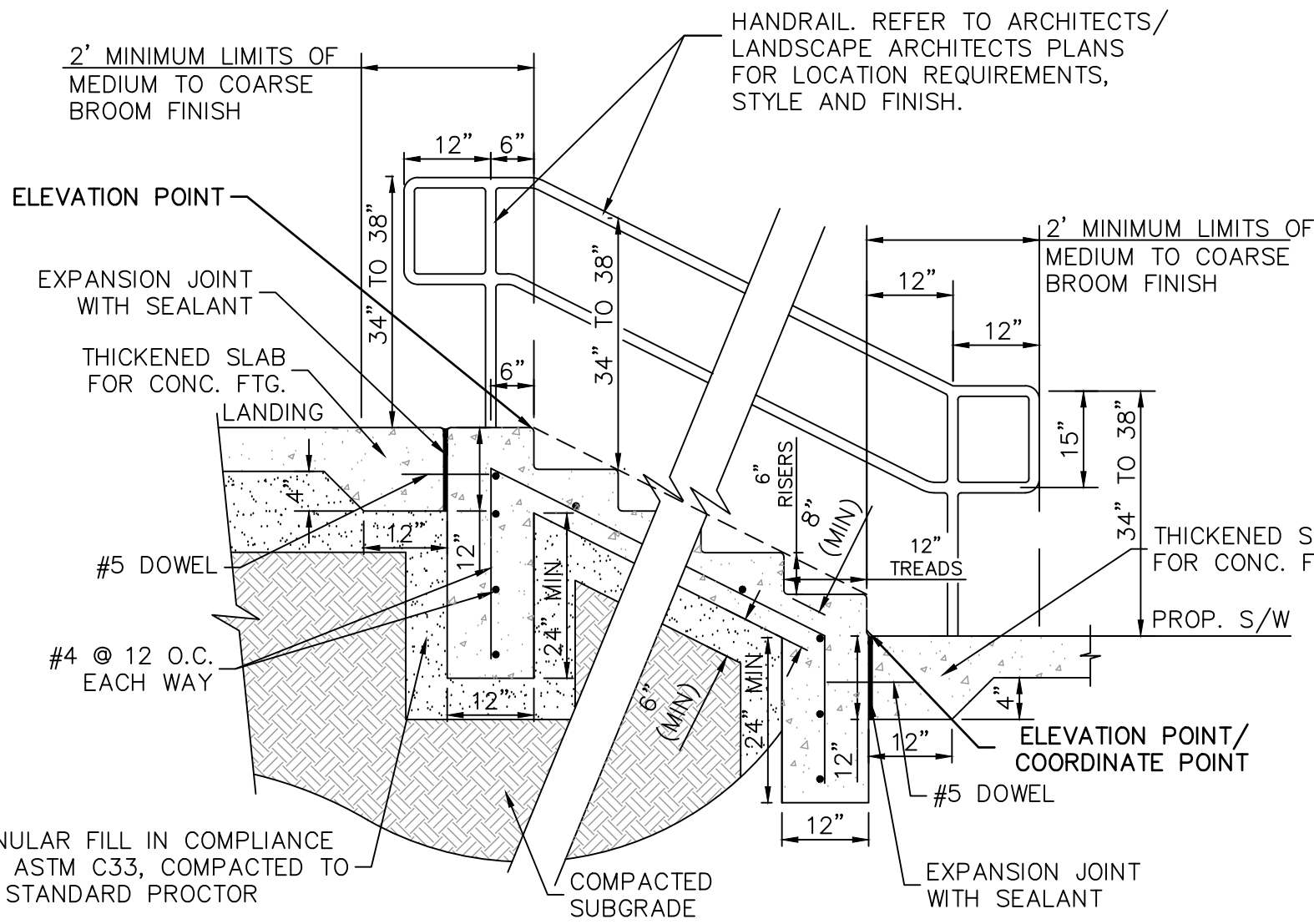
C195

Issued for Construction

	TREAD	RISER
STAIR A	5 @ 12"=5'	5 @ 6"=2.5'
STAIR B	5 @ 12"=5'	5 @ 6"=2.5'
STAIR C	5 @ 12"=5'	5 @ 6"=2.5'
STAIR D	5 @ 12"=5'	5 @ 6"=2.5'
STAIR E	5 @ 12"=5'	5 @ 6.25"=2.6'
STAIR F	4 @ 12"=4'	4 @ 6.25"=2.1'
STAIR G	4 @ 12"=4'	4 @ 6.25"=2.1'
STAIR H	5 @ 12"=5'	5 @ 6.25"=2.6'
STAIR J	7 @ 12"=7'	7 @ 6"=3.5'

	TREAD	RISER
STAIR K	4 @ 12"=4'	4 @ 6"=2.0'
STAIR L	5 @ 12"=5'	5 @ 6"=2.5'

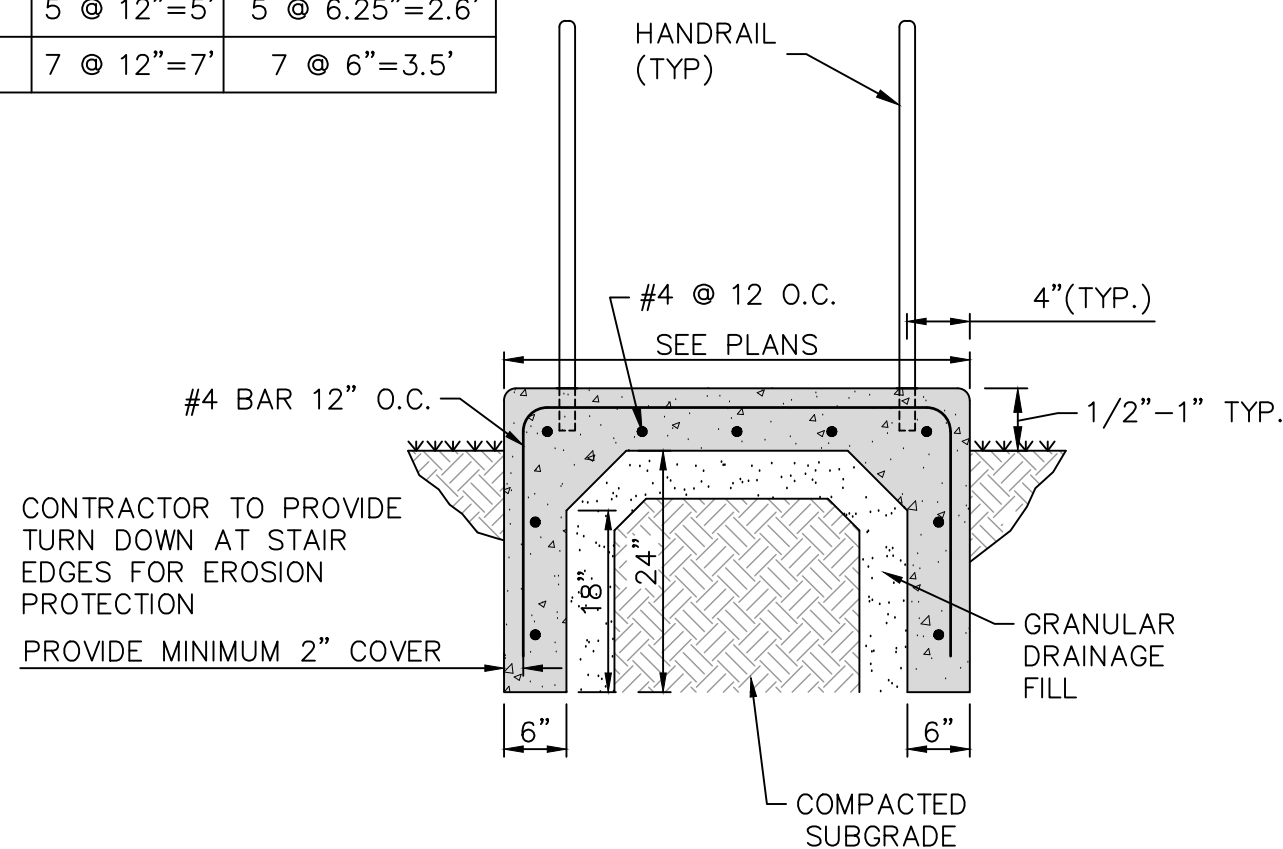
	TREAD	RISER
STAIR M	9 @ 12"=9'	9 @ 6"=4.5'



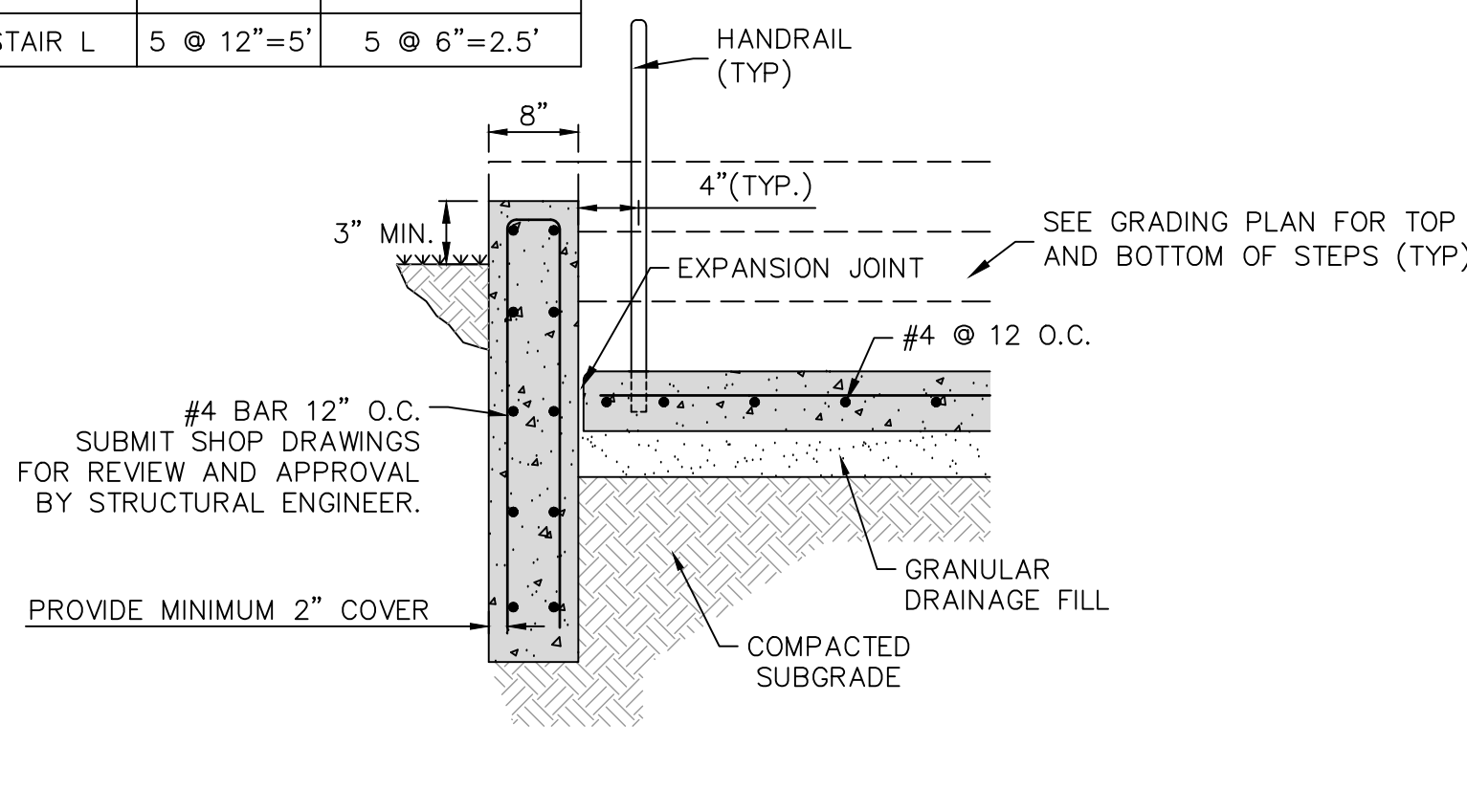
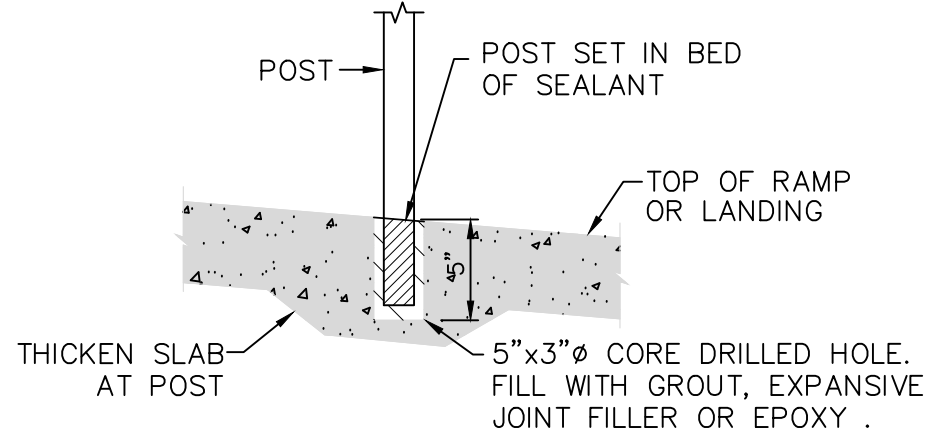
### CONCRETE AND SIDEWALK NOTES:

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI. LOW SLUMP MIX AND COMPLY WITH KCMBB SPECIFICATIONS. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH APWA SECTION 2200.
- REINFORCING STEEL SHALL BE GRADE 60 EPOXY COATED AND COMPLY WITH ASTM A775. ALL CUT ENDS OR DAMAGED AREAS SHALL BE FIELD REPAIRED WITH EPOXY COATING.
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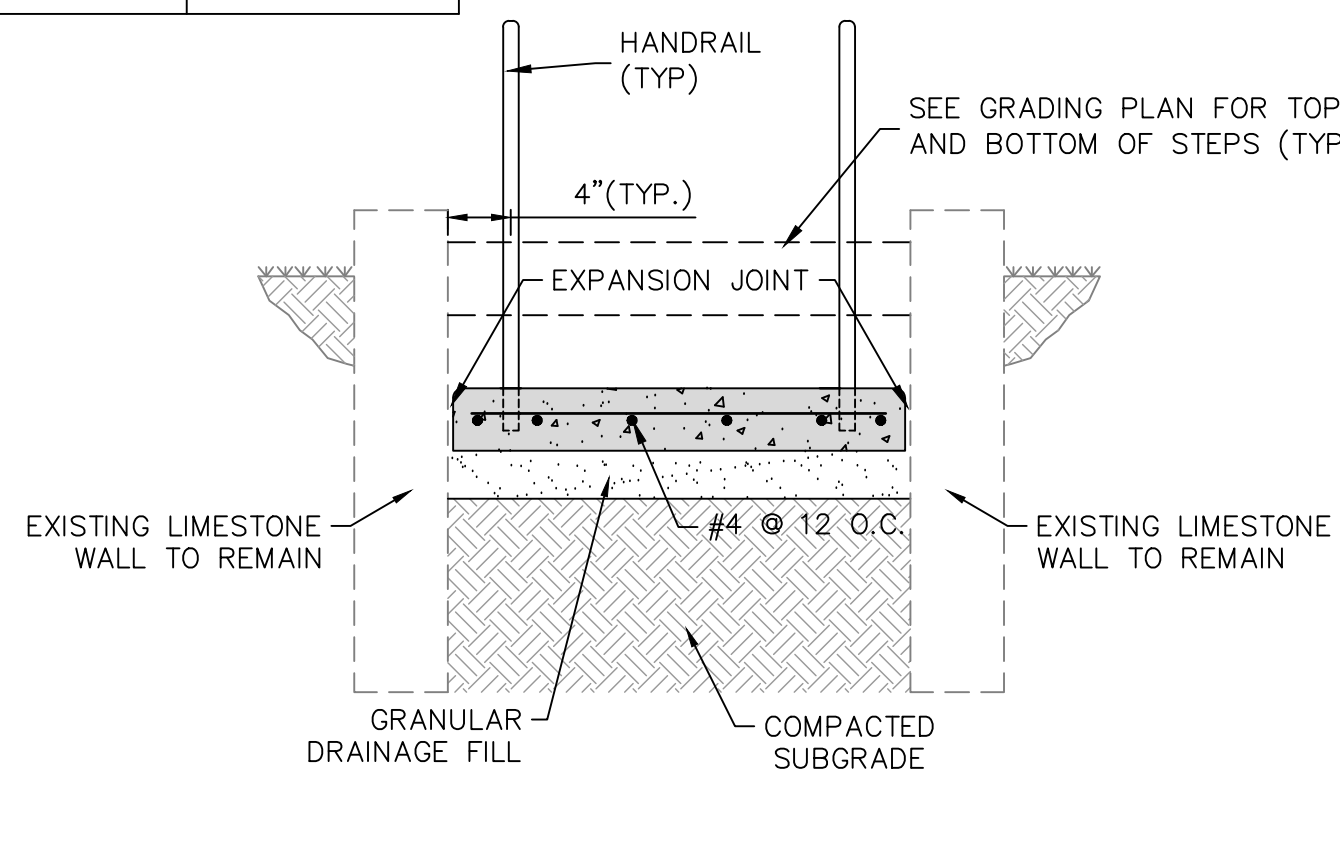
### CONCRETE STEP DETAIL 056



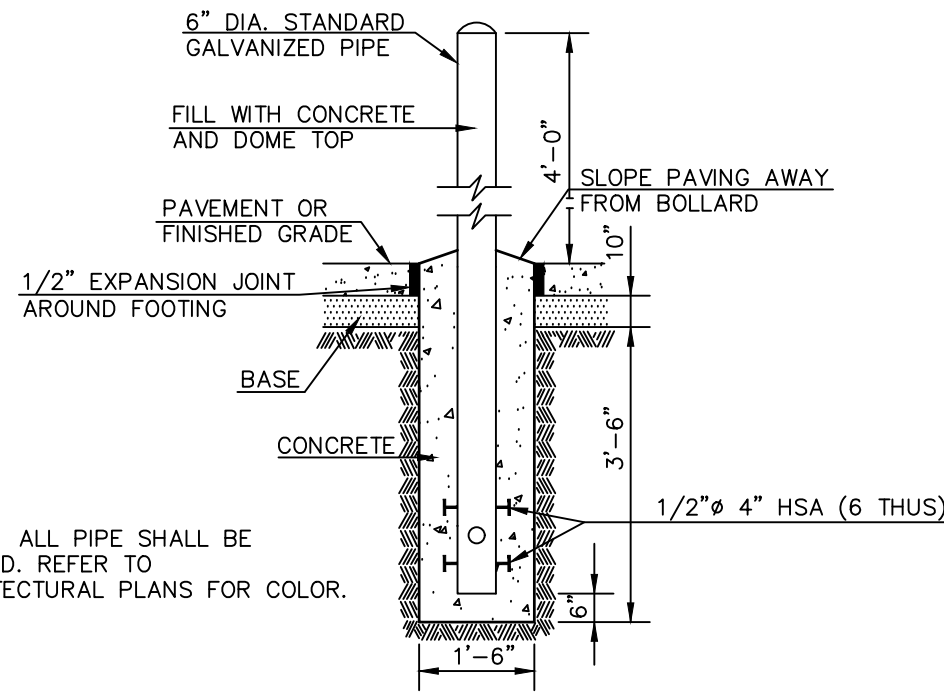
### TURN DOWN EDGE



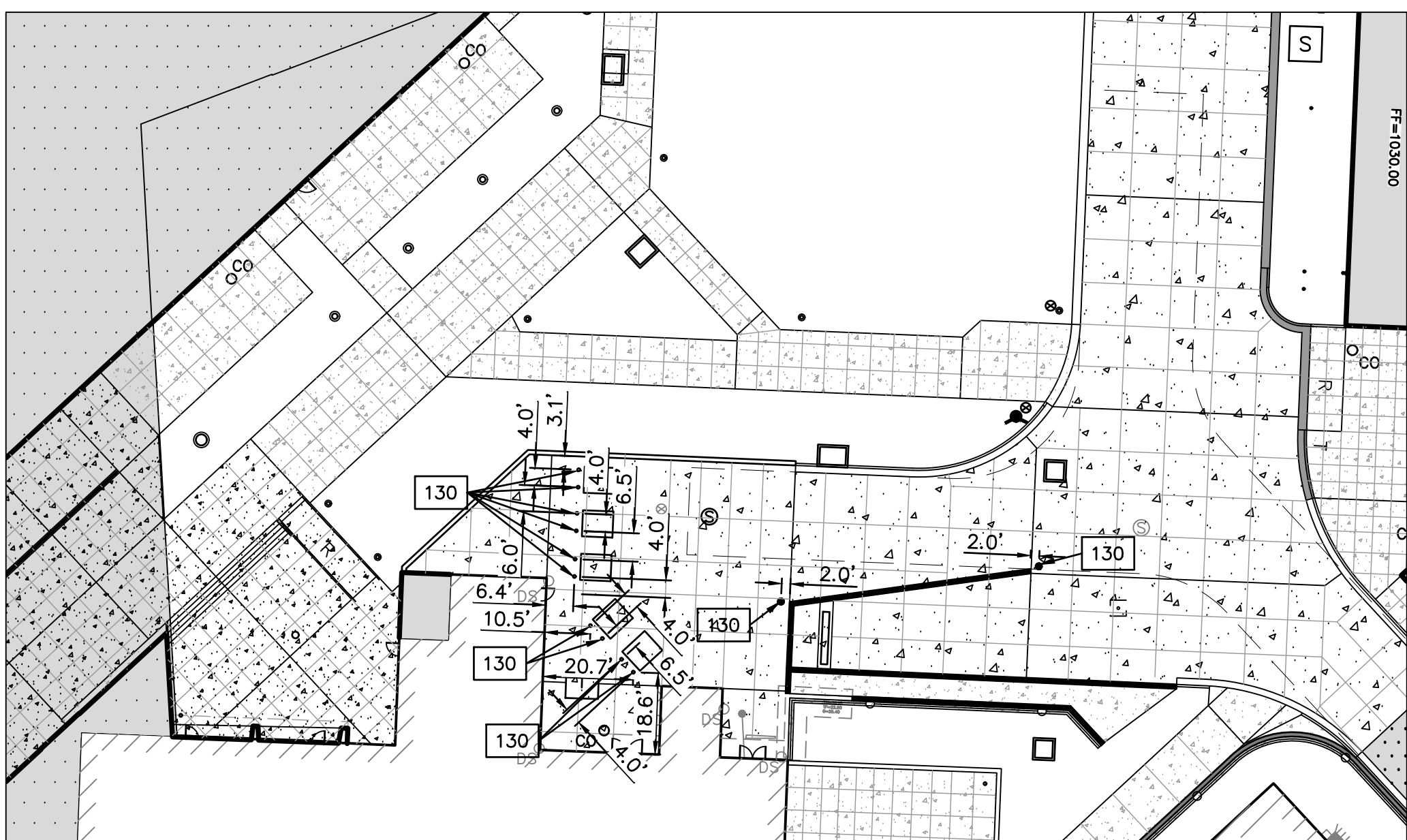
### CHEEK WALL EDGE



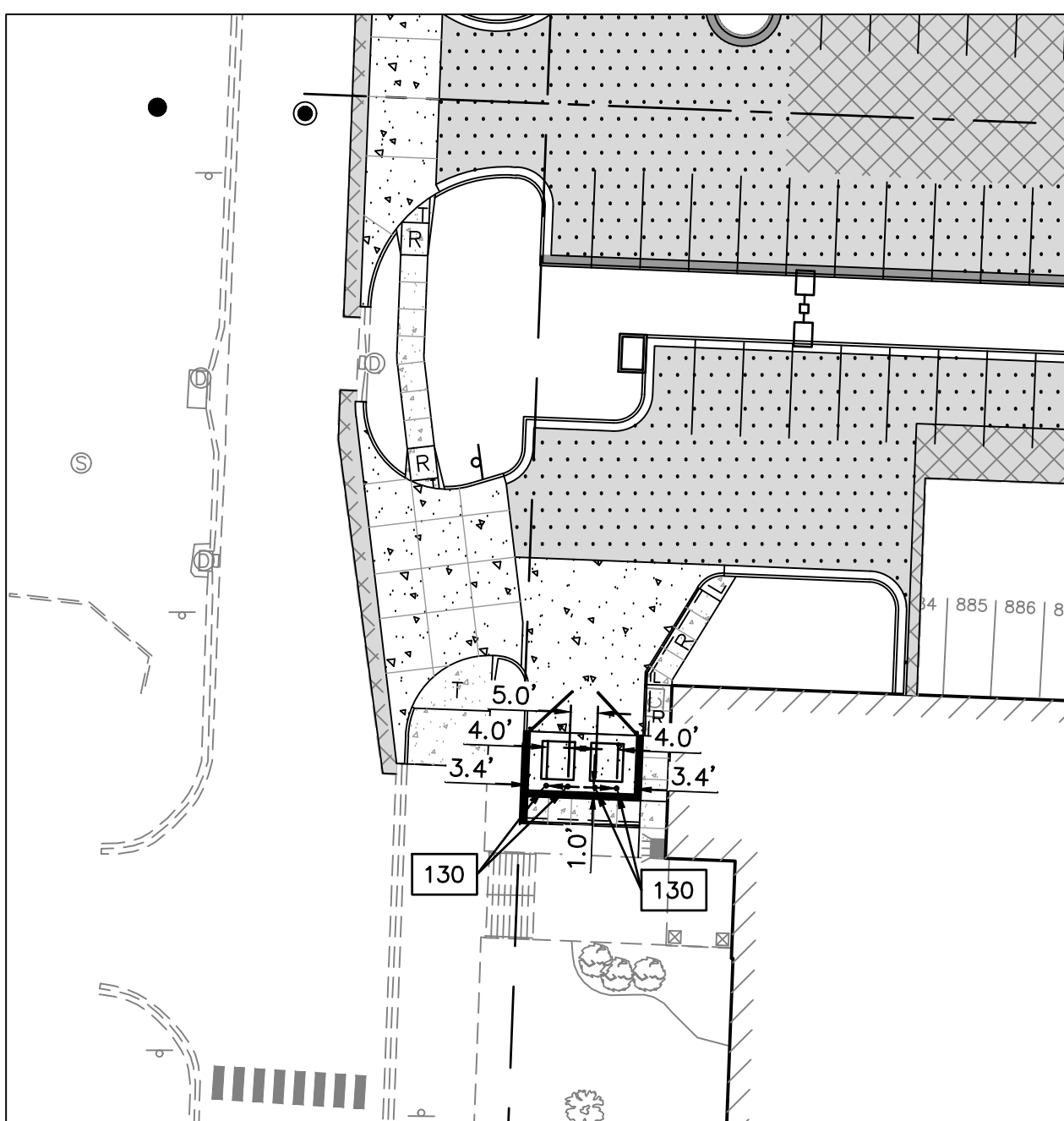
### EXISTING LIMESTONE WALL EDGE



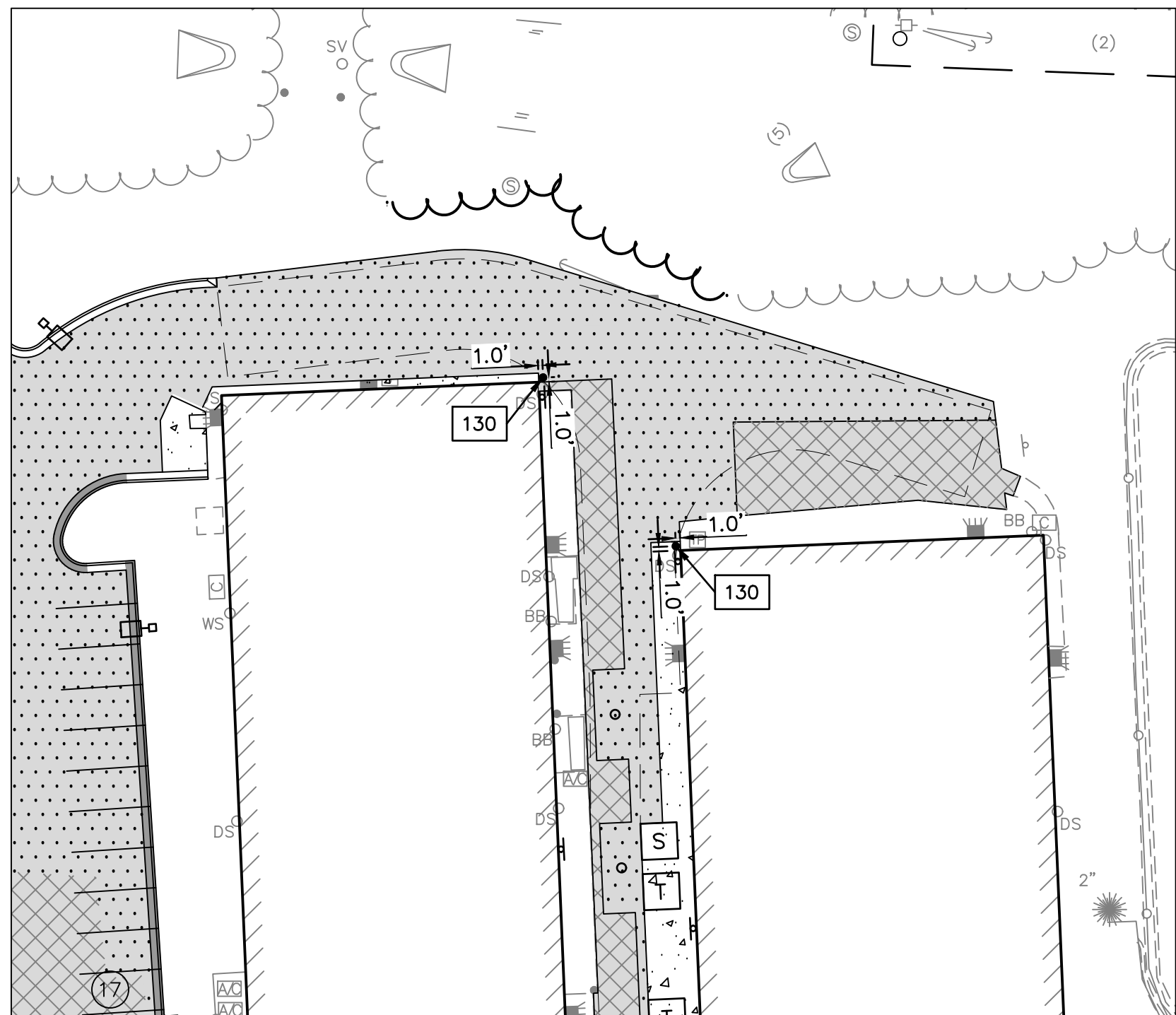
### BOLLARDS 130



### DOCK AREA BOLLARD LAYOUT



### NORTH TRASH ENCLOSURE BOLLARD LAYOUT



### NORTH BUILDING BOLLARD LAYOUT

PROJ. NO. C20\_0496 DSN: DDW DAVID D. WOOD  
CFN: 0496DET.DWG DWN: NJN ENGINEER  
MO # 2011037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66215  
PH. (913) 894-5150 | FAX (913) 894-5977  
lv@gveng.com | www.lveng.com

**KAW VALLEY ENGINEERING**

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER  
ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF  
AUTHORITY # 000842. EXPIRES 12/31/21



## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.gould-evans.com

structural engineer:  
Bob D. Campbell & Company, Inc.  
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Kansas City, MO 64111  
816.531.4144

civil engineer:  
Kaw Valley Engineering  
14700 West 134th Terrace  
Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.0700

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Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

Number	DESCRIPTION	DATE
1	ADDENDUM #1 PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	11-19-2020
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3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR  
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AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

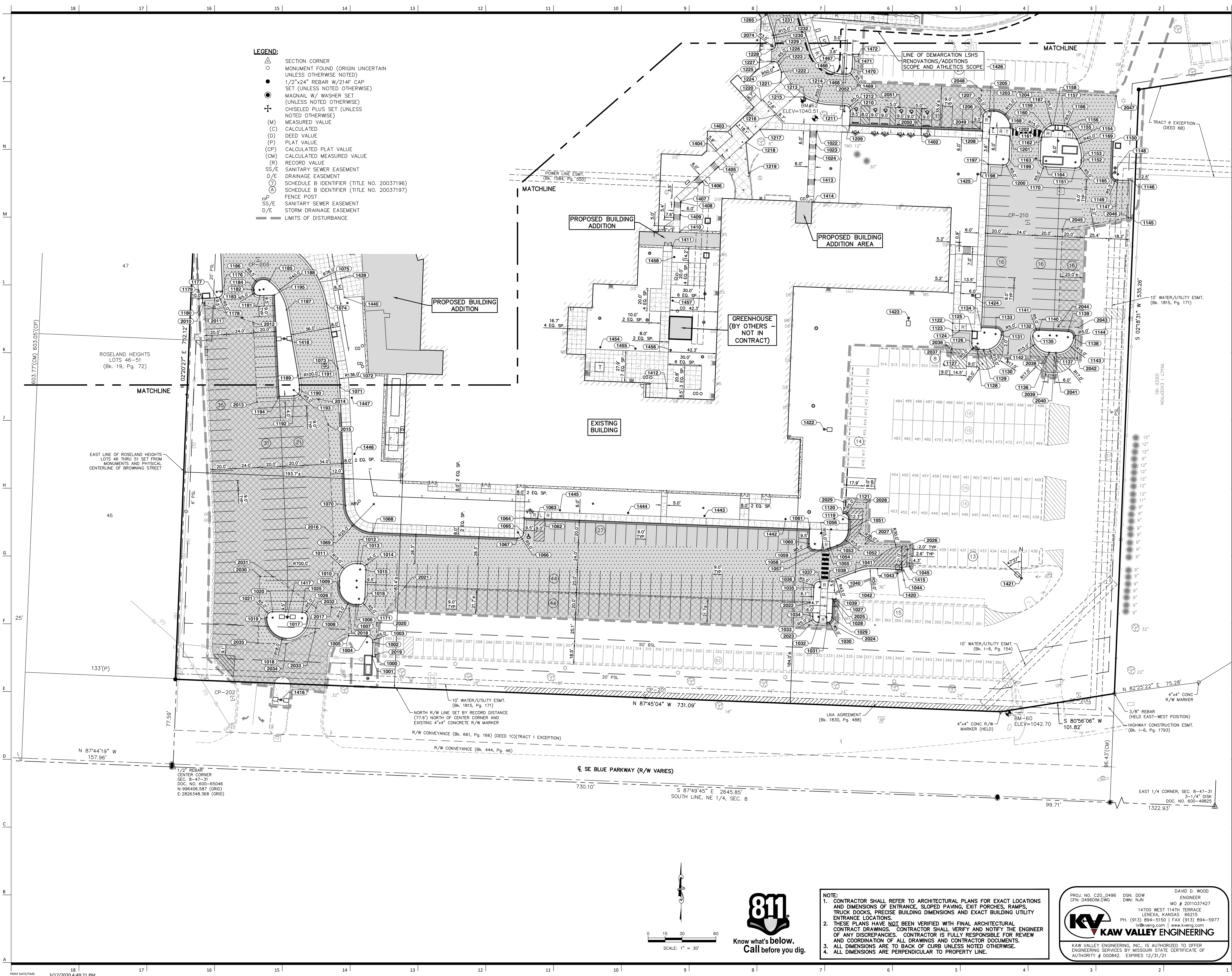
DIMENSION PLAN - SOUTH

# C210

Issued for Construction

### LEGEND:

- △ SECTION CORNER
- MONUMENT FOUND (ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED)
- 1/2"x24" REBAR W/214F CAP SET (UNLESS NOTED OTHERWISE)
- MAGNAIL W/ WASHER SET (UNLESS NOTED OTHERWISE)
- ✚ CHISELED PLUS SET (UNLESS NOTED OTHERWISE)
- (M) MEASURED VALUE
- (C) CALCULATED
- (D) DEED VALUE
- (P) PLAT VALUE
- (CP) CALCULATED PLAT VALUE
- (CM) CALCULATED MEASURED VALUE
- (R) RECORD VALUE
- SS/E SANITARY SEWER EASEMENT
- D/E DRAINAGE EASEMENT
- SCHEDULE B IDENTIFIER (TITLE NO. 20037196)
- SCHEDULE B IDENTIFIER (TITLE NO. 20037197)
- FP FENCE POST
- SS/E SANITARY SEWER EASEMENT
- D/E STORM DRAINAGE EASEMENT
- LIMITS OF DISTURBANCE



NOTE:  
1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.  
2. THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.  
3. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.  
4. ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.

PROJ. NO. C20\_0496 DSN: DDW DAVID D. WOOD  
CFN: 0496DIM.DWG DWN: NUN ENGINEER  
MO # 2011037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66115  
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info@kve.com www.kve.com

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KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER  
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AUTHORITY # 000842. EXPIRES 12/31/21



## Lee's Summit High School

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Lee's Summit, MO 64063

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301 NE Tudor Road  
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architect:  
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Kansas City, MO 64111  
816.931.6655 voice  
www.goulddevans.com

structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
Kaw Valley Engineering  
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Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.6700

- LEGEND:**
- △ SECTION CORNER
  - MONUMENT FOUND (ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED)
  - 1/2"x24" REBAR W/214F CAP SET (UNLESS NOTED OTHERWISE)
  - MAGNAIL W/ WASHER SET (UNLESS NOTED OTHERWISE)
  - ✚ CHISELED PLUS SET (UNLESS NOTED OTHERWISE)
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  - (CP) CALCULATED PLAT VALUE
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  - (R) RECORD VALUE
  - SS/E SANITARY SEWER EASEMENT
  - D/E DRAINAGE EASEMENT
  - ② SCHEDULE B IDENTIFIER (TITLE NO. 20037196)
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Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

REVISIONS		
Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
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RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

DIMENSION PLAN - MIDDLE

# C220

Issued for Construction

PROJ. NO. C20\_0496 DSN: DDW  
CFN: 0496DIM.DWG DWN: NJN  
DAVID D. WOOD  
ENGINEER  
MO # 2011037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66215  
PH. (913) 894-5150 | FAX (913) 894-5977  
ld@kve.com www.kve.com

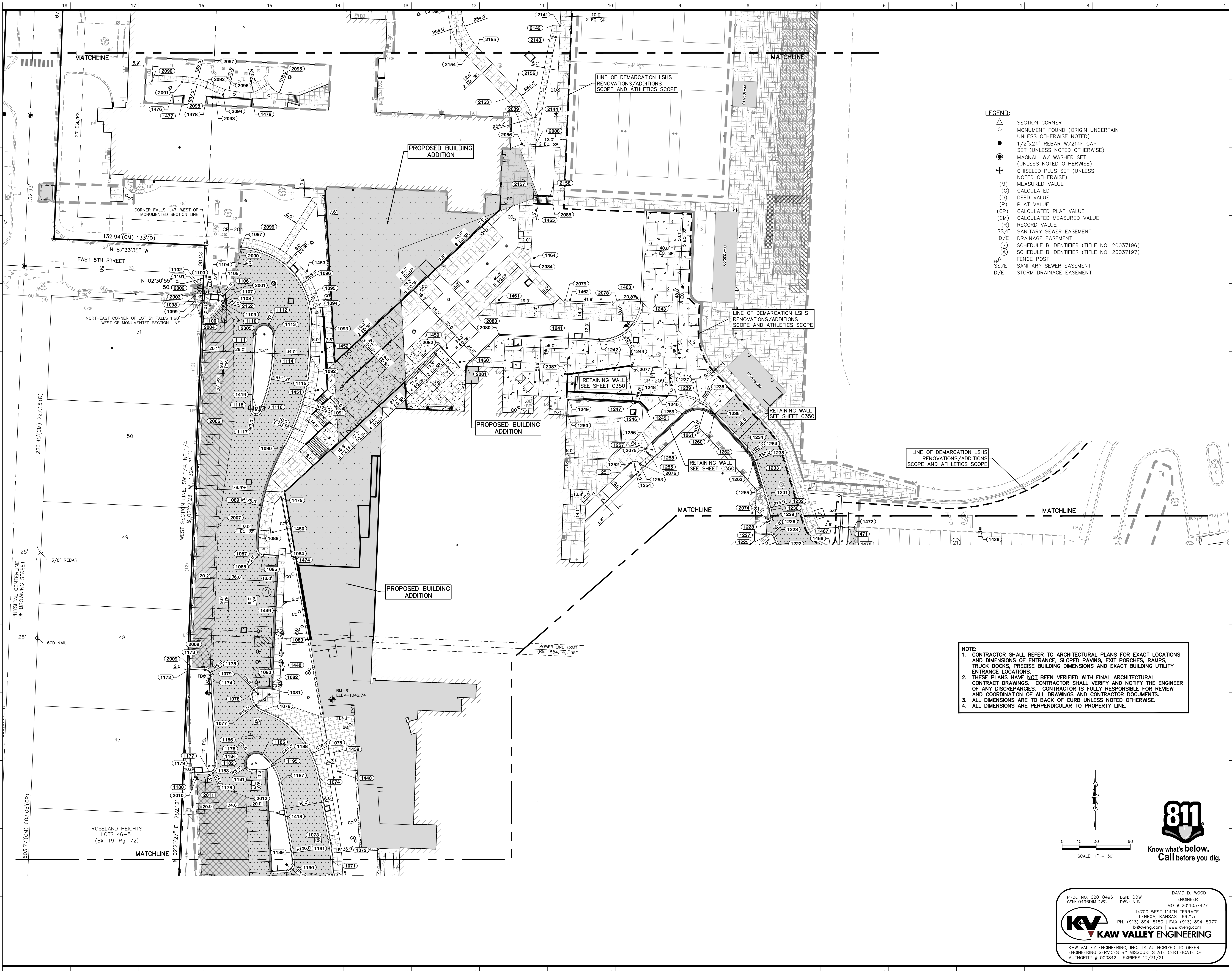
**KV KAW VALLEY ENGINEERING**

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0 15 30 60  
SCALE: 1" = 30'



Know what's below.  
Call before you dig.





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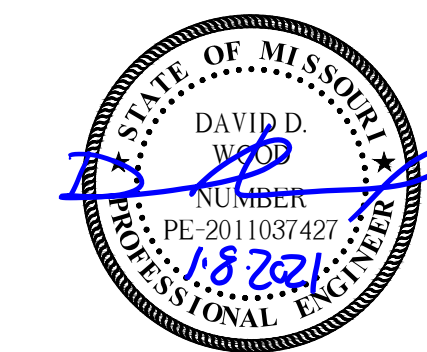
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Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.6700

### LEGEND:

- SECTION CORNER
- MONUMENT FOUND (ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED)
- 1/2"x24" REBAR W/214F CAP SET (UNLESS NOTED OTHERWISE)
- MAGNAIL W/ WASHER SET (UNLESS NOTED OTHERWISE)
- CHISELED PLUS SET (UNLESS NOTED OTHERWISE)
- (M) MEASURED VALUE
- (C) CALCULATED
- (D) DEED VALUE
- (P) PLAT VALUE
- (CP) CALCULATED PLAT VALUE
- (CM) CALCULATED MEASURED VALUE
- (R) RECORD VALUE
- SS/E SANITARY SEWER EASEMENT
- D/E DRAINAGE EASEMENT
- ⑦ SCHEDULE B IDENTIFIER (TITLE NO. 20037196)
- ⑧ SCHEDULE B IDENTIFIER (TITLE NO. 20037197)
- FP FENCE POST
- SS/E SANITARY SEWER EASEMENT
- D/E STORM DRAINAGE EASEMENT

UNLESS A PROFESSIONAL SEAL WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION



Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

REVISIONS		
Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

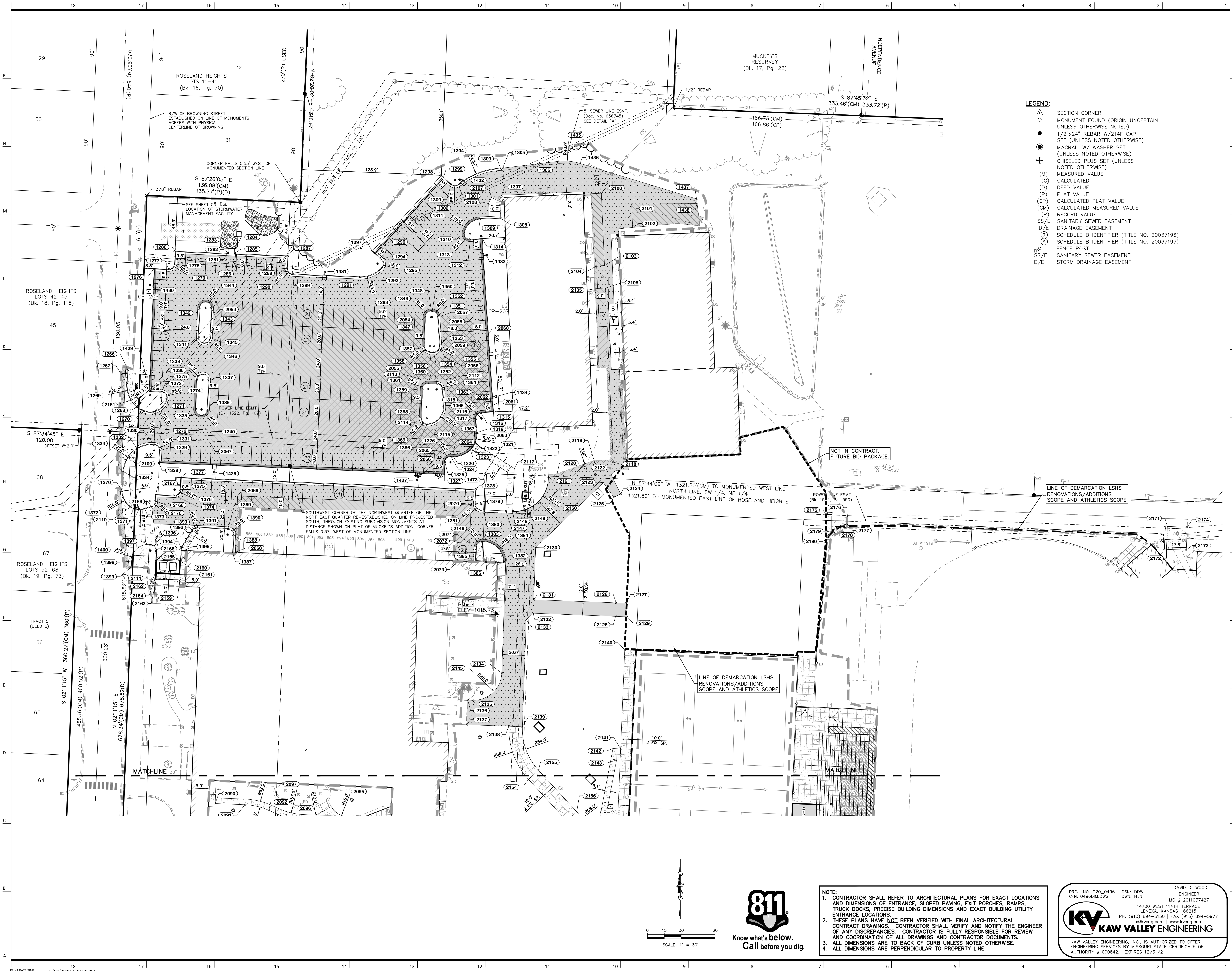
PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

DIMENSION PLAN - NORTH

# C230

Issued for Construction



NOTE:  
1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.  
2. THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.  
3. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.  
4. ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.

PROJ. NO. C20\_0496 DSN: DDW DAVID D. WOOD  
CFN: 0496DIM.DWG DWN: NJN ENGINEER  
MO # 2011037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66215  
PH. (913) 894-5150 | FAX (913) 894-5977  
ld@kveeng.com | www.kveeng.com  
KAW VALLEY ENGINEERING  
KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842, EXPIRES 12/31/21



SCALE: 1" = 30'



P	COORDINATE TABLE		
	◇ NORTHING	EASTING	DESCRIPTION
N	1001	996605.81	2826816.42 BC
	1002	996605.93	2826813.43 BC
	1003	996618.69	2826813.91 BC
	1004	996618.88	2826808.91 R5.0
	1005	996623.87	2826809.10 BC
	1006	996624.50	2826792.64 BC
	1007	996652.25	2826801.61 BC
	1008	996652.35	2826799.20 BC
	1009	996667.16	2826799.78 R15.0
	1010	996673.17	2826784.72 BC
M	1011	996673.34	2826799.71 R15.0
	1012	996688.33	2826800.30 BC
	1013	996688.23	2826803.02 BC
	1014	996683.23	2826802.82 R5.0
	1015	996683.04	2826807.82 BC
	1016	996657.06	2826806.80 BC
	1017	996640.03	2826756.42 BC
	1018	996604.47	2826738.42 R18.0
	1019	996640.91	2826720.43 BC
	1020	996645.62	2826725.48 BC
L	1021	996640.62	2826725.42 R5.0
	1022	997071.19	2827206.82 STAIR
	1023	997059.20	2827206.32 STAIR
	1024	997049.21	2827205.90 STAIR
	1025	996645.15	2826751.56 BC
	1026	996640.16	2826751.42 R5.0
	1027	996657.08	2827223.92 BC
	1028	996657.22	2827220.92 BC
	1029	996640.91	2827220.29 BC
	1030	996641.10	2827215.29 R5.0
K	1031	996636.21	2827216.31 BC
	1032	996636.37	2827208.30 BC
	1033	996641.37	2827208.50 R5.0
	1034	996641.56	2827203.50 BC
	1035	996667.55	2827204.51 BC
	1036	996667.35	2827209.51 R5.0
	1037	996672.34	2827209.85 BC
	1038	996672.96	2827217.88 BC
	1039	996715.34	2827210.63 R43.0
	1040	996675.07	2827225.71 BC
J	1041	996680.80	2827241.00 BC
	1042	996633.97	2827258.53 R50.0
	1043	996683.93	2827260.68 BC
	1044	996683.00	2827282.22 BC
	1045	996685.62	2827289.20 EA
	1051	996718.10	2827234.71 BC
	1052	996718.75	2827219.73 R15.0
	1053	996704.70	2827224.99 BC
	1054	996702.45	2827218.99 BC
	1055	996701.58	2827216.66 BC
I	1056	996715.63	2827211.40 R15.0
	1057	996700.64	2827210.81 BC
	1058	996700.86	2827205.05 BC
	1059	996705.86	2827205.25 R5.0
	1060	996706.05	2827200.25 BC
	1061	996719.04	2827200.76 BC
	1062	996728.22	2826965.94 BC
	1063	996728.45	2826959.94 BC
	1064	996728.92	2826947.95 BC
	1065	996715.93	2826947.45 BC
H	1066	996716.12	2826942.45 R5.0
	1067	996711.13	2826942.25 BC
	1068	996716.14	2826813.98 BC
	1069	996741.12	2826814.96 R25.0
	1070	996739.94	2826789.99 BC
	1071	996844.55	2826785.03 BC
	1072	996838.12	2826649.18 R136.0
	1073	996861.26	2826783.20 BC
	1074	996919.16	2826773.21 BC
	1075	996906.23	2826698.31 R76.0
G	1076	996977.80	2826723.89 BC
	1077	996991.92	2826728.93 R15.0
	1078	996992.54	2826713.95 BC
	1079	996992.33	2826718.94 R5.0
	1080	996997.33	2826719.15 BC
	1081	996996.79	2826732.14 BC
	1082	997002.79	2826732.38 BC
	1083	997045.25	2826734.13 BC
	1084	997114.69	2826737.00 BC
	1085	997115.23	2826724.01 BC
F	1086	997120.22	2826724.21 R5.0
	1087	997120.43	2826719.22 BC
	1088	997130.80	2826719.64 BC
	1089	997123.59	2826894.50 R175.0
	1090	997210.28	2826742.48 BC
	1091	997296.97	2826590.46 R175.0
	1092	997289.77	2826765.31 BC
	1093	997318.22	2826766.48 BC
	1094	997331.36	2826765.69 BC
	1095	997337.28	2826764.44 BC
E	1096	997320.90	2826701.54 R65.0
	1097	997385.85	2826703.96 BC
	1098	997342.88	2826663.36 BC
	1099	997342.73	2826668.57 BC
	1100	997352.73	2826668.85 R10.0
	1101	997343.25	2826672.04 BC
	1102	997343.79	2826673.65 BC
	1103	997334.31	2826676.84 R10.0
	1104	997344.30	2826677.34 BC

COORDINATE TABLE		
◇ NORTHING	EASTING	DESCRIPTION
1105	997343.95	2826684.33 BC
1106	997338.96	2826684.08 R5.0
1107	997338.75	2826689.08 BC
1108	997338.16	2826689.05 BC
1109	997336.66	2826688.28 BC
1110	997335.57	2826686.85 BC
1111	997309.37	2826717.00 BC
1112	997309.06	2826724.53 R7.5
1113	997308.75	2826732.06 BC
1114	997291.17	2826731.34 BC
1115	997296.97	2826590.46 R141.0
1116	997241.29	2826720.00 BC
1117	997242.48	2826717.24 R3.0
1118	997242.60	2826714.24 BC
1119	996727.49	2827235.12 BC
1120	996732.70	2827230.33 BC
1121	996727.70	2827230.12 R5.0
1122	996901.19	2827327.34 BC
1123	996894.70	2827327.09 BC
1124	996894.44	2827333.09 BC
1125	996894.44	2827344.81 BC
1126	996883.45	2827344.34 BC
1127	996883.23	2827349.34 R5.0
1128	996878.24	2827349.12 BC
1129	996878.00	2827354.68 BC
1130	996892.98	2827355.33 R15.0
1131	996890.95	2827370.19 BC
1132	996891.63	2827365.23 R5.0
1133	996896.62	2827365.45 BC
1134	996897.18	2827352.50 BC
1135	996889.75	2827398.29 BC
1136	996875.51	2827412.63 BC
1137	996875.25	2827418.62 BC
1138	996888.21	2827434.13 BC
1139	996893.88	2827429.39 BC
1140	996894.99	2827403.50 BC
1141	996890.00	2827403.28 R5.0
1142	996890.50	2827413.27 R15.0
1143	996890.24	2827419.27 R15.0
1144	996888.88	2827429.17 R5.0
1145	996994.52	2827484.80 BC
1146	997027.57	2827486.22 BC
1147	997028.12	2827473.23 BC
1148	997033.33	2827468.45 BC
1149	997033.12	2827473.44 R5.0
1150	997062.08	2827469.68 BC
1151	997038.74	2827435.65 BC
1152	997043.53	2827440.86 BC
1153	997045.49	2827440.95 BC
1154	997064.11	2827437.24 BC
1155	997072.34	2827432.09 BC
1156	997075.33	2827428.63 BC
1157	997076.09	2827426.19 BC
1158	997076.52	2827416.31 BC
1159	997075.97	2827413.81 BC
1160	997073.28	2827410.10 BC
1161	997065.45	2827405.93 BC
1162	997063.27	2827405.68 BC
1163	997045.07	2827404.89 BC
1164	997039.86	2827409.68 BC
1165	997043.74	2827435.87 R5.0
1166	997071.10	2827426.00 R5.0
1167	997071.52	2827416.10 R5.0
1168	997062.62	2827420.66 R15.0
1169	997047.21	2827400.98 R40.0
1170	997044.86	2827409.89 BC
1171	996657.25	2826801.81 R5.0
1172	997014.02	2826658.78 BC
1173	997013.46	2826672.36 BC
1174	997008.70	2826677.15 BC
1175	997008.46	2826672.15 R5.0
1176	996929.23	2826680.91 BC
1177	996924.01	2826676.17 BC
1178	996928.99	2826675.92 R5.0
1179	996923.34	2826663.13 BC
1180	996919.35	2826663.33 BC
1181	996925.76	2826714.11 BC
1182	996930.52	2826708.88 BC
1183	996930.75	2826713.87 R5
1184	996930.92	2826708.86 BC
1185	996938.10	2826722.49 BC
1186	996931.32	2826717.35 R8.5
1187	996913.03	2826737.73 BC
1188	996906.23	2826698.31 R40.0
1189	996855.13	2826747.73 BC
1190	996842.85	2826749.07 BC
1191	996838.12	2826649.18 R100.0
1192	996837.09	2826744.34 BC
1193	996842.08	2826744.10 R5.0
1194	996836.47	2826731.35 BC
1195	996926.37	2826727.10 BC
1197	997042.05	2827358.72 BC
1198	997041.49	2827371.71 BC
1199	997046.27	2827376.92 BC
1200	997046.49	2827371.92 R5.0
1201	997066.66	2827377.80 BC
1202	997074.66	2827378.07 BC
1203	997088.84	2827363.73 BC
1204	997073.86	2827363.09 R15.0
1205	997089.02	2827359.54 BC

COORDINATE TABLE		
◇	NORTHING	EASTING DESCRIPTION
1206	997084.24	2827354.33 BC
1207	997084.03	2827359.33 R5.0
1208	997071.08	2827353.76 BC
1209	997075.99	2827325.87 BC
1210	997088.68	2827236.41 BC
1211	997093.90	2827231.61 BC
1212	997088.90	2827231.42 R5.0
1213	997011.25	2827195.72 BC
1214	997144.35	2827221.06 R50.0
1215	997011.54	2827187.21 SW
1216	997085.52	2827169.96 SW
1217	997072.57	2827156.74 BC
1218	997061.21	2827144.51 BC
1219	997034.32	2827146.93 BC
1220	997098.41	2827157.90 SW
1221	997114.50	2827175.02 SW
1222	997123.36	2827175.68 BC
1223	997129.37	2827173.36 BC
1224	997144.35	2827221.06 R50.0
1225	997132.86	2827168.88 bc
1226	997127.87	2827168.59 R5.0
1227	997132.99	2827166.74 BC
1228	997143.87	2827167.03 BC
1229	997147.30	2827170.08 BC
1230	997154.02	2827169.09 BC
1231	997156.17	2827168.61 BC
1232	997151.83	2827154.25 R15.0
1233	997195.41	2827156.73 BC
1234	997207.10	2827150.03 BC
1235	997186.72	2827128.02 R30.0
1236	997238.52	2827120.93 BC
1237	997248.31	2827108.42 BC
1238	997204.54	2827084.25 R50.0
1239	997254.45	2827087.38 BC
1240	997255.19	2827070.72 BC
1241	997306.01	2826992.52 BC
1242	997304.89	2827019.41 BC
1243	997338.41	2827055.83 BC
1244	997339.86	2827020.86 R35.0
1245	997240.63	2827061.82 EC
1246	997245.68	2827057.15 EC
1247	997248.55	2827050.94 EC
1248	997239.65	2827050.55 R9.0
1249	997251.13	2826992.13 EC
1250	997237.94	2826991.71 EC
1251	997186.88	2827037.99 BC
1252	997195.68	2827047.49 BC
1253	997194.68	2827055.23 BC
1254	997192.01	2827050.88 R5.0
1255	997202.84	2827063.97 BC
1256	997210.80	2827062.72 BC
1257	997207.50	2827065.78 R4.5
1258	997212.29	2827066.54 EC
1259	997237.25	2827093.49 EC
1260	997236.22	2827120.34 EC
1261	997223.31	2827106.40 R19.0
1262	997205.74	2827148.56 EC
1263	997194.83	2827154.82 EC
1264	997186.72	2827128.02 R28.0
1265	997173.58	2827161.25 EC
1266	997916.50	2826545.37 BC
1267	997904.15	2826547.85 BC
1268	997883.70	2826557.05 BC
1269	997903.10	2826557.28 R25.0
1270	997890.95	2826561.23 BC
1271	997890.71	2826562.77 BC
1272	997894.24	2826568.19 R15.0
1273	997896.88	2826578.10 BC
1274	997891.89	2826577.91 R5.0
1275	997897.31	2826567.31 BC
1276	998006.22	2826577.64 BC
1277	998005.71	2826584.63 BC
1278	998010.51	2826589.83 BC
1279	998010.70	2826584.83 R50.0
1280	998015.50	2826590.26 BC
1281	998019.65	2826636.73 BC
1282	998020.13	2826637.25 BC
1283	998024.12	2826637.40 BC
1284	998023.89	2826643.40 BC
1285	998019.89	2826643.24 BC
1286	998019.37	2826643.72 BC
1287	998017.52	2826660.18 BC
1288	998006.63	2826689.75 BC
1289	998001.34	2826694.54 BC
1290	998006.33	2826699.47 R5.0
1291	997998.97	2826753.89 BC
1292	998007.11	2826777.33 BC
1293	998023.95	2826754.88 R25.0
1294	998014.17	2826777.03 BC
1295	998010.49	2826769.66 R5.0
1296	998010.90	2826766.75 BC
1297	998021.58	2826764.90 BC
1298	998088.82	2826826.22 BC
1299	998087.14	2826828.07 BC
1300	998080.96	2826834.85 BC
1301	998080.80	2826841.40 BC
1302	998084.65	2826838.22 R5.0
1303	998095.15	2826878.55 BC
1304	998032.22	2826881.52 R63.0
1305	998094.24	2826880.55 EA



## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6555 voice  
www.gould-evans.com

structural engineer:  
Bob O. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
Kaw Valley Engineering  
14700 West 134th Terrace  
Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.8700

- NOTE:
1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
  2. THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.
  3. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.
  4. ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.
  5. GRADE AT ALL STOOPS SHALL BE 1/2" BELOW FINISH FLOOR ELEVATION AND SLOPE AWAY FROM THE BUILDING AT 1/4"/FT. (2.0% UNLESS NOTED OTHERWISE). REFER TO SHEET S200, DETAIL 5.
  6. CONTRACTOR SHALL SUBMIT AS-BUILTS OF FINISH FLOOR ELEVATIONS AT ALL EXTERIOR DOOR LOCATIONS PRIOR TO LAYOUT AND FORMING OF ALL CURBING WEST OF BUILDING AS WELL AS FLATWORK ON WEST SIDE OF BUILDING AND WITHIN GREENWAY.

### WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO. WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

### CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

### SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

### HORIZONTAL AND VERTICAL DATUM:

UNLESS OTHERWISE NOTED, THE COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE (1983) WEST ZONE (NAD 1983) (NAD 1988)  
CAF: 0.9998978  
SCALED AROUND 0.0

JA-25 (PID: 092025)  
NORTHING: 303646.030 (GRID/METERS) 996313.829 (GROUND/FEET)  
EASTING: 860950.475 (GRID/METERS) 2824923.692 (GROUND/FEET)  
ELEVATION: 321.8 (METERS) 1055.77 (FEET)

### SITE BENCHMARKS:

BM-60  
FOUND CUT SQUARE AT THE WEST NORTHWEST CONCRETE HEADWALL ON THE WEST SIDE OF THE EAST ENTRY DRIVE TO LEE'S SUMMIT HIGH SCHOOL  
ELEVATION= 1042.70

BM-61  
SET CUT SQUARE WITH PUNCH IN THE SOUTHWEST EDGE ON A CONCRETE LIGHT BASE ON THE NORTH SIDE OF THE DRIVE LANE AT THE HIGH SCHOOL ADMINISTRATION CENTER ENTRY.  
ELEVATION= 1042.74

BM-62  
SET CUT SQUARE AT THE NORTHEAST CORNER OF THE FIRST STEP UP OF A CONCRETE WALK ON THE NORTH SIDE OF THE EAST MAIN WING.  
ELEVATION= 1040.51

BM-63  
SET CUT SQUARE AT THE TOP NORTHEAST CORNER OF A CONCRETE PATIO WITH COVERED TABLES ON THE EAST SIDE OF BUILDING "B".  
ELEVATION= 1015.74

BM-64  
SET CUT SQUARE AT THE TOP NORTHEAST CORNER OF STEPS TO THE NORTH ENTRY TO BUILDING "B" ON THE WEST SIDE.  
ELEVATION= 1015.34

### PROJECT CONTROL:

CE #200  
1/2" REBAR W/ ORANGE KVE CAP  
NORTHING: 996572.06 (GROUND)  
EASTING: 2827438.76 (GROUND)  
ELEV = 1049.49

CE #201  
1/2" REBAR W/ ORANGE KVE CAP  
NORTHING: 996570.39 (GROUND)  
EASTING: 2827055.45 (GROUND)  
ELEV = 1048.24

CE #202  
1/2" REBAR W/ ORANGE KVE CAP  
NORTHING: 996569.25 (GROUND)  
EASTING: 2826689.97 (GROUND)  
ELEV = 1042.52

CE #203  
MAG NAIL  
NORTHING: 996567.62 (GROUND)  
EASTING: 2826712.48 (GROUND)  
ELEV = 1039.43

CE #204  
1/2" REBAR W/ ORANGE KVE CAP  
NORTHING: 997397.36 (GROUND)  
EASTING: 2826684.55 (GROUND)  
ELEV = 1023.04

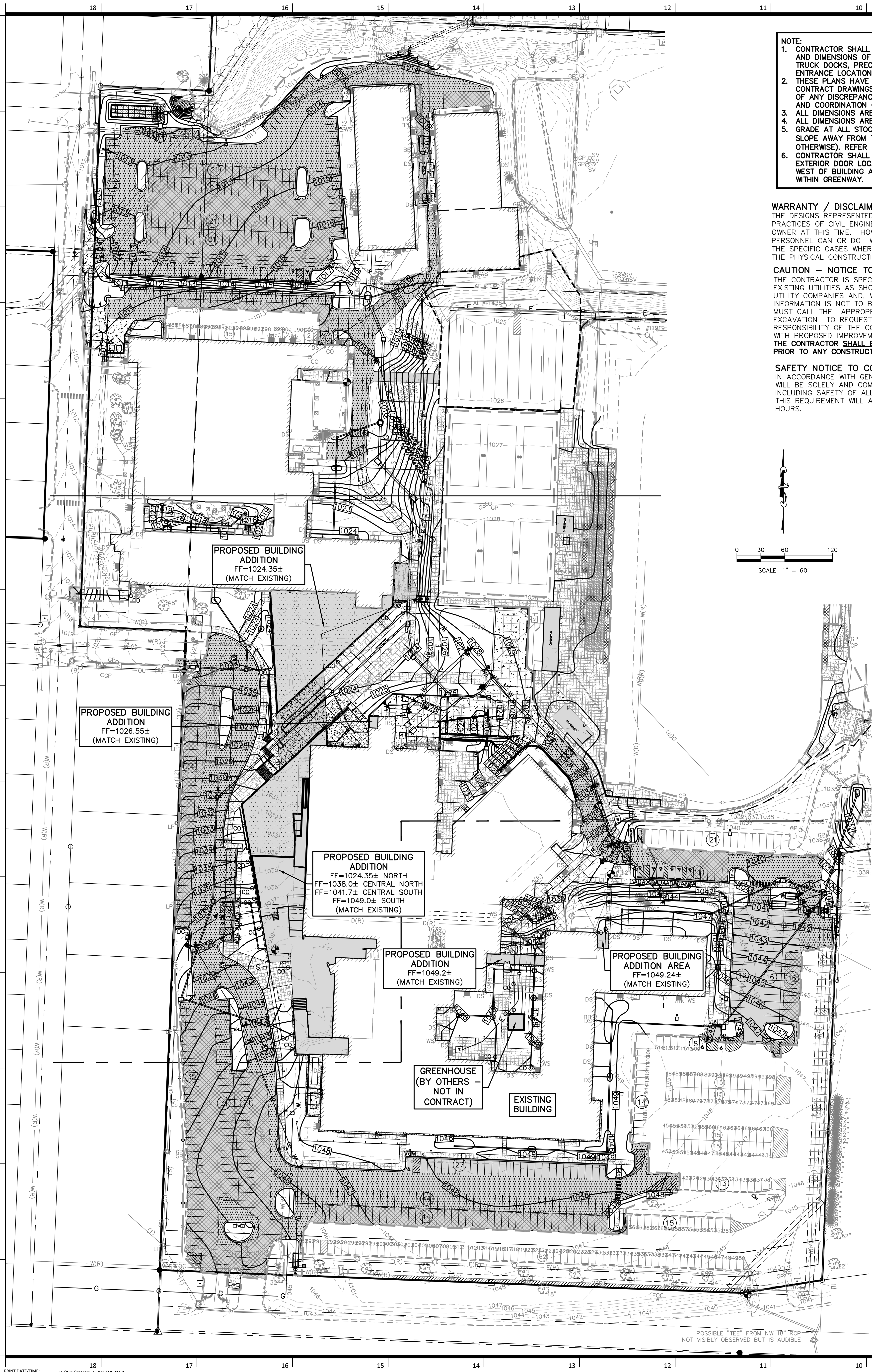
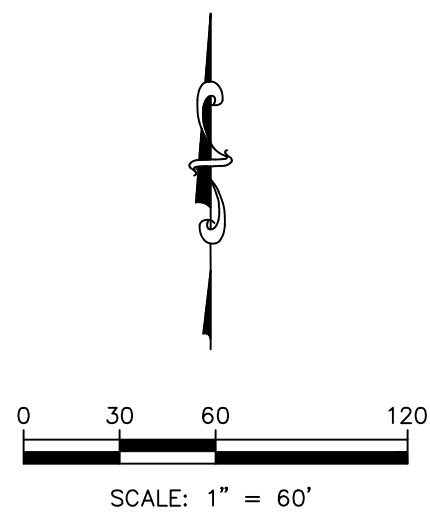
CE #205  
1/2" REBAR W/ ORANGE KVE CAP  
NORTHING: 997397.36 (GROUND)  
EASTING: 2826456.31 (GROUND)  
ELEV = 1018.15

CE #206  
1/2" REBAR W/ ORANGE KVE CAP  
NORTHING: 997985.93 (GROUND)  
EASTING: 2826567.03 (GROUND)  
ELEV = 1012.56

CE #207  
1/2" REBAR W/ ORANGE KVE CAP  
NORTHING: 997970.64 (GROUND)  
EASTING: 2826660.58 (GROUND)  
ELEV = 1014.79

### GRADING NOTES:

1. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. BURNING OF TIMBER WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES. CONSTRUCTION MANAGER SHALL DESIGNATE LOCATION OF STOCKPILE AREAS DURING CONSTRUCTION. ANY UNAUTHORIZED STOCKPILE SHALL BE REMOVE/RELOCATED AT THE CONTRACTORS EXPENSE.
2. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 12-INCH DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 WITH A MOISTURE CONTENT OF +/-3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT OF LESS THAN 40 AND 0 TO +4% FOR SOILS WITH A LIQUID LIMIT GREATER THAN 40. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.
3. OFF-SITE SOIL MATERIAL FOR USE UNDER BUILDING AND PAVED AREAS SHALL HAVE A PLASTICITY INDEX OF 25 OR LESS, A LIQUID LIMIT OF 45 OR LESS AND CONTAIN NO ROCK LARGER THAN THREE INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE OWNER'S TESTING AGENCY PRIOR TO BRINGING ON SITE.
4. EARTHWORK UNDER THE BUILDING, PAVING AND LIGHTLY LOADED STRUCTURAL FEATURES SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND PROJECT GEOTECHNICAL REPORT. THE BUILDING PAD SHALL BE EXCAVATED AS REQUIRED TO ALLOW THE PLACEMENT OF LOW VOLUME CHANGE MATERIAL. REFER TO GEOTECHNICAL REPORT FOR PREPARING BUILDING PAD AND LOW VOLUME CHANGE THICKNESS REQUIREMENTS. OTHER FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698. LVC SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT OF 0 TO +4% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT GREATER THAN 40 AND +/-3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT LESS THAN 40. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 24 INCHES OF EMBANKMENT.
5. ON-SITE HIGH PLASTICITY CLAYS MAY BE TREATED WITH 5% TYPE 1/2 PORTLAND CEMENT BY WEIGHT. REFER TO PROJECT GEOTECHNICAL REPORT FOR REQUIREMENTS.
6. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS.
7. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED, THE OWNER'S ENGINEER SHALL RECOMMEND TO THE OWNER THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOFROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.
8. ALL EXCAVATIONS SHALL BE CONSIDERED AS UNCLASSIFIED. REFER TO PROJECT GEOTECHNICAL REPORT.
9. ALL DISTURBED SLOPES ARE TO BE 3:1 OR FLATTER.
10. DETENTION BASIN AND ALL SLOPES DISTURBED EXCEEDING 4:1 SHALL BE HYDROSEEDDED, SODDED OR PROTECTED BY EROSION CONTROL BLANKETS THAT WILL PREVENT EROSION AND PLACED SUCH THAT THE SURFACE IS FLUSH WITH SURROUNDING GROUND AND SHAPED TO CHANNEL WATER IN DIRECTIONS INDICATED. SEE GENERAL NOTES ON THIS SHEETS.
11. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND A MINIMUM OF FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON-SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SODDED OR SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. REFER TO THE NOTES ON THIS SHEET FOR TEMPORARY SEEDING SPECIFICATIONS. REFER TO PROJECT SITE PLAN FOR FINAL STABILIZATION TREATMENTS.
11. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.
12. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
13. IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.
14. IF ANY OF THESE NOTES CONFLICT WITH THE PROJECT GEOTECHNICAL REPORT (CFS PROJECT 20-1075) AND ALL ADDENDUMS PREPARED BY CFS ENGINEERS DATED JUNE 12, 2020, RECOMMENDATIONS IN GEOTECHNICAL REPORT SHALL GOVERN.



PRINT DATE/TIME: 3/17/2020 4:49:21 PM



Know what's below.  
Call before you dig.

PROJ. NO. C20\_0496 DSN: DDW DAVID D. WOOD  
CFN: 0496GP.DWG DWN: NJN ENGINEER  
MO # 2011037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66215  
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KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER  
ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF  
AUTHORITY # 000842, EXPIRES 12/31/21

OVERALL GRADING PLAN

C300

Issued for Construction

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Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

### REVISIONS

Number	DESCRIPTION	DATE
1	ADDENDUM #1 PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	11-19-2020
2	PER CITY COMMENTS WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

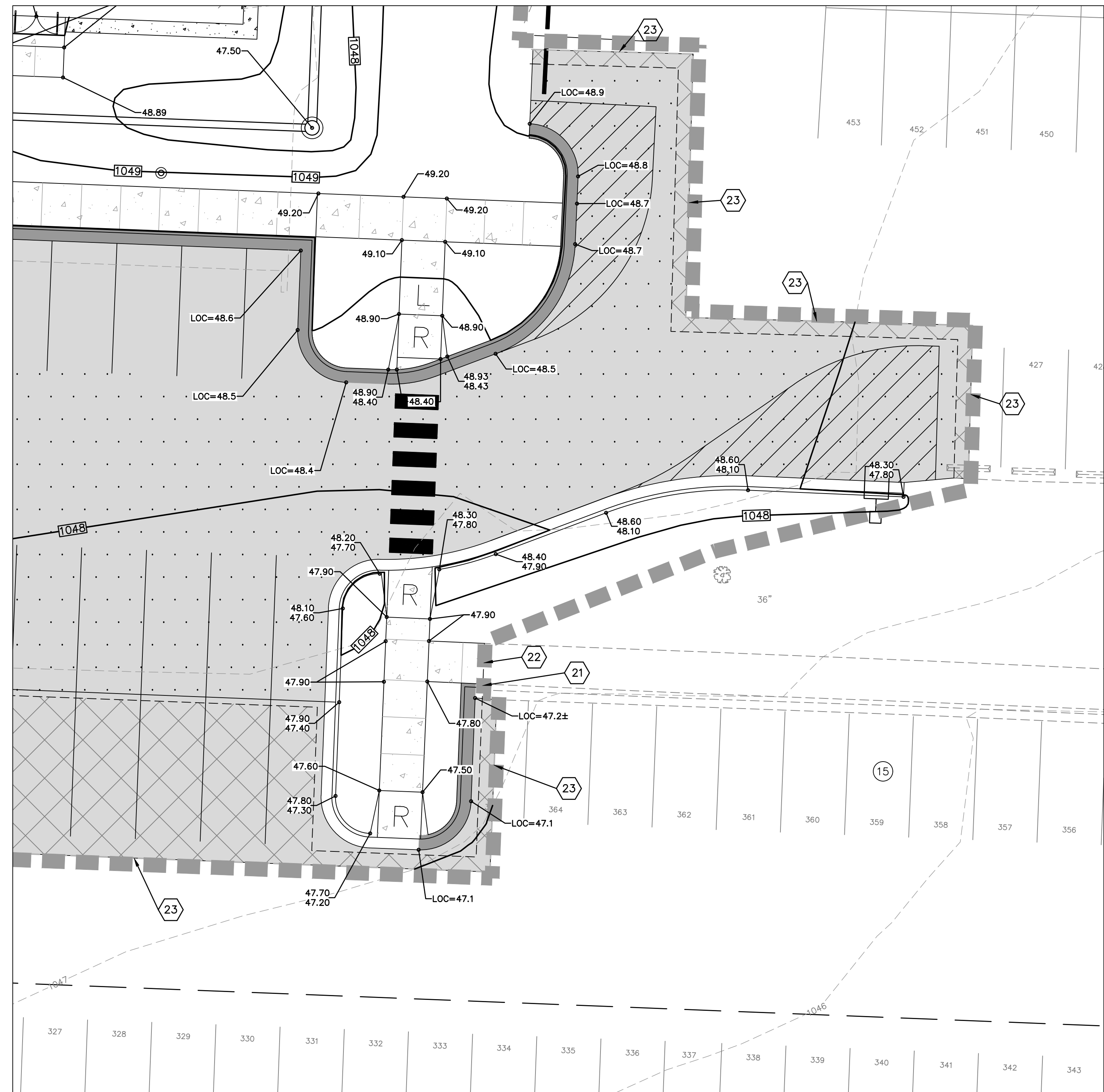
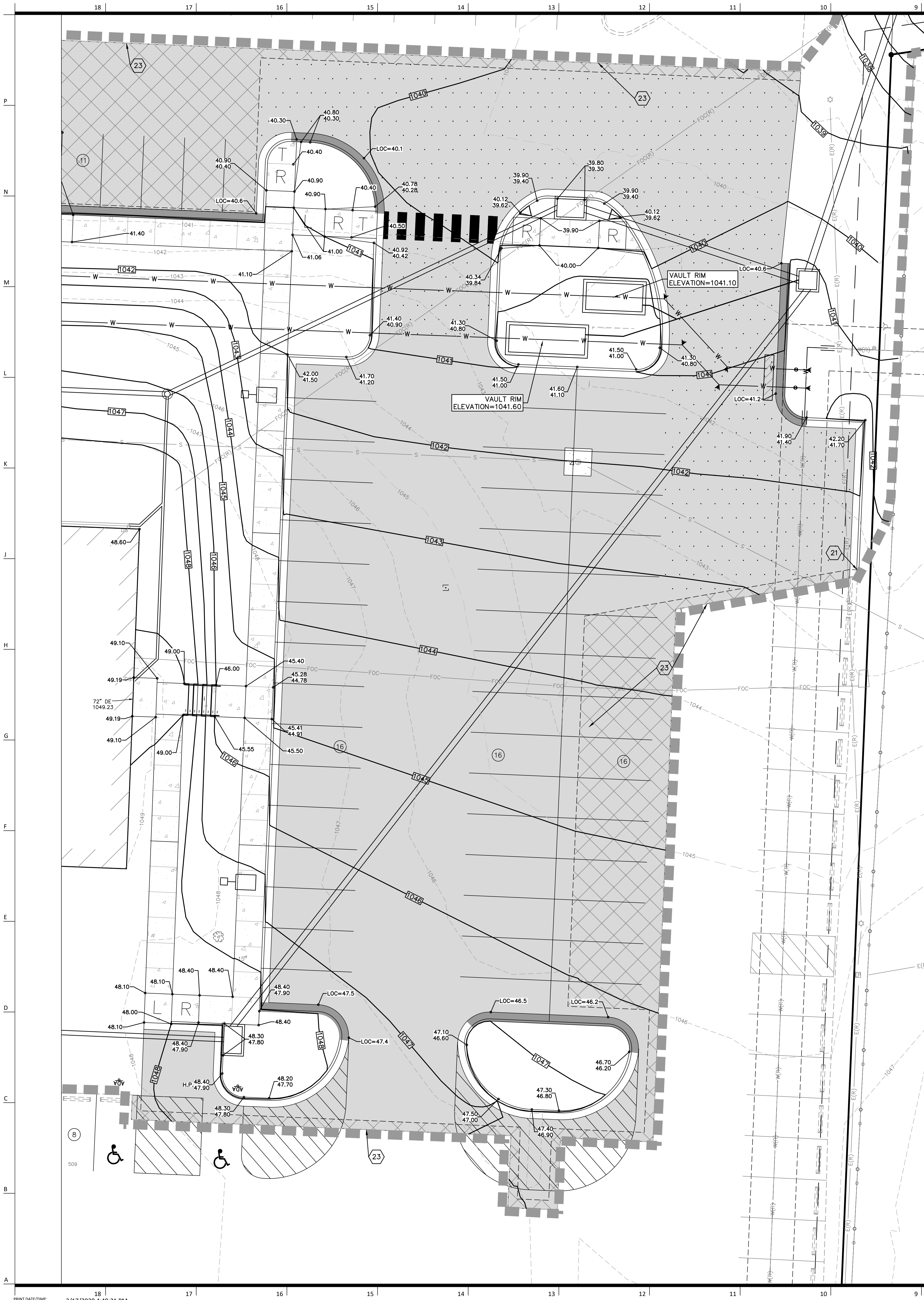
PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2









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- ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.
- GRADE AT ALL STOOPS SHALL BE 1/2" BELOW FINISH FLOOR ELEVATION AND SLOPE AWAY FROM THE BUILDING AT 1/4"/FT. (2.0% UNLESS NOTED OTHERWISE). REFER TO SHEET S200, DETAIL 5.
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**NOTES:**

- MATCH EXISTING CURB ELEVATION.
- MATCH EXISTING SIDEWALK ELEVATION.
- MATCH EXISTING PAVEMENT ELEVATION.
- TRANSITION FROM ZERO HEIGHT CURB TO FULL HEIGHT CURB

**LEGEND (PROPOSED)**

- SPOT ELEVATION (ADD 900), TOP OF PAVEMENT
- 23.6 TOP OF CURB (ADD 900)
- 23.1 FLOWLINE OF CURB (ADD 900)
- FLOW DIRECTION
- 950 FINISHED 1' CONTOUR INTERVALS, TOP OF PAVEMENT
- SWALE
- LP LOW POINT
- HP HIGH POINT
- LOC LIP OF CURB
- TW TOP OF WALL
- BW BOTTOM OF WALL
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- P PAVEMENT ELEVATION



PROJ. NO. C20-0496 DSN: DDW DAVID D. WOOD  
CFN: 0496G.DWG DWN: NUN ENGINEER  
MO # 201037427  
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## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

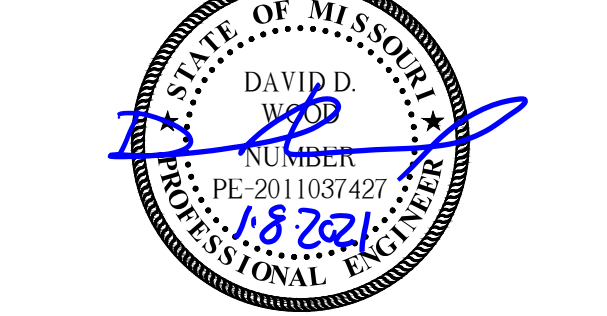
architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.gould-evans.com

structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
Kaw Valley Engineering  
14700 West 114th Terrace  
Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.8700

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Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

REVISIONS		
Number	DESCRIPTION	DATE
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RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

DETAILED GRADING PLAN

C315

Issued for Construction



## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 W. Tudor Road  
Lee's Summit, MO 64086

architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.gould-evans.com

structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
Kaw Valley Engineering  
14700 West 114th Terrace  
Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.0700

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- NOTES:**
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  - 23 MATCH EXISTING PAVEMENT ELEVATION.
  - 24 TRANSITION FROM ZERO HEIGHT CURB TO FULL HEIGHT CURB

### LEGEND (PROPOSED)

- 22.9 SPOT ELEVATION (ADD 900), TOP OF PAVEMENT
- 23.6 TOP OF CURB (ADD 900)
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PROPOSED BUILDING ADDITION AREA  
FF=1049.24±  
(MATCH EXISTING)

PROPOSED BUILDING ADDITION  
FF=1049.2±  
(MATCH EXISTING)

GREENHOUSE  
(BY OTHERS  
NOT IN CONTRACT)

FF=1049.20

FF=1049.17±

0 5 10 20  
SCALE: 1" = 10'



PROJ. NO. C20\_0496 DSN: DDW ENGINEER  
CFN: 0496GP.DWG DWN: NUN MO # 2011037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66215  
PH. (913) 894-5150 / FAX (913) 894-5977  
www.kveng.com www.kveng.com

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David Wood Date: 12/29/2020  
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LEE'S SUMMIT, MISSOURI  
01/14/2021

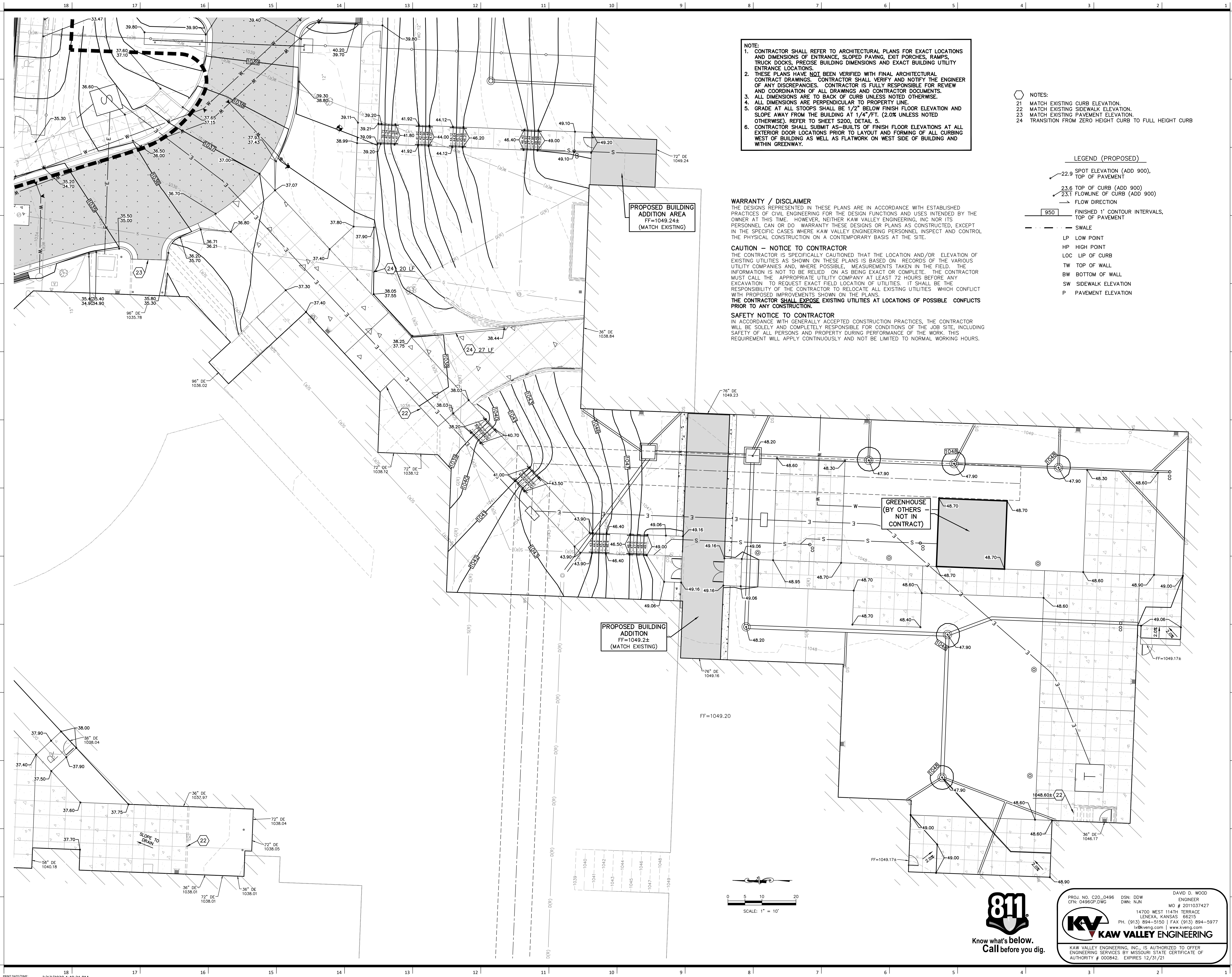
PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

DETAILED GRADING PLAN

C320

Issued for Construction





# Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

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CFN: 0496GP.DWG DWN: NJN

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ENGINEER  
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info@kve.com www.kve.com

**KV KAW VALLEY ENGINEERING**

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842, EXPIRES 12/31/21

UNLESS A PROFESSIONAL SEAL WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION



Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
License No. PE-201037427

Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

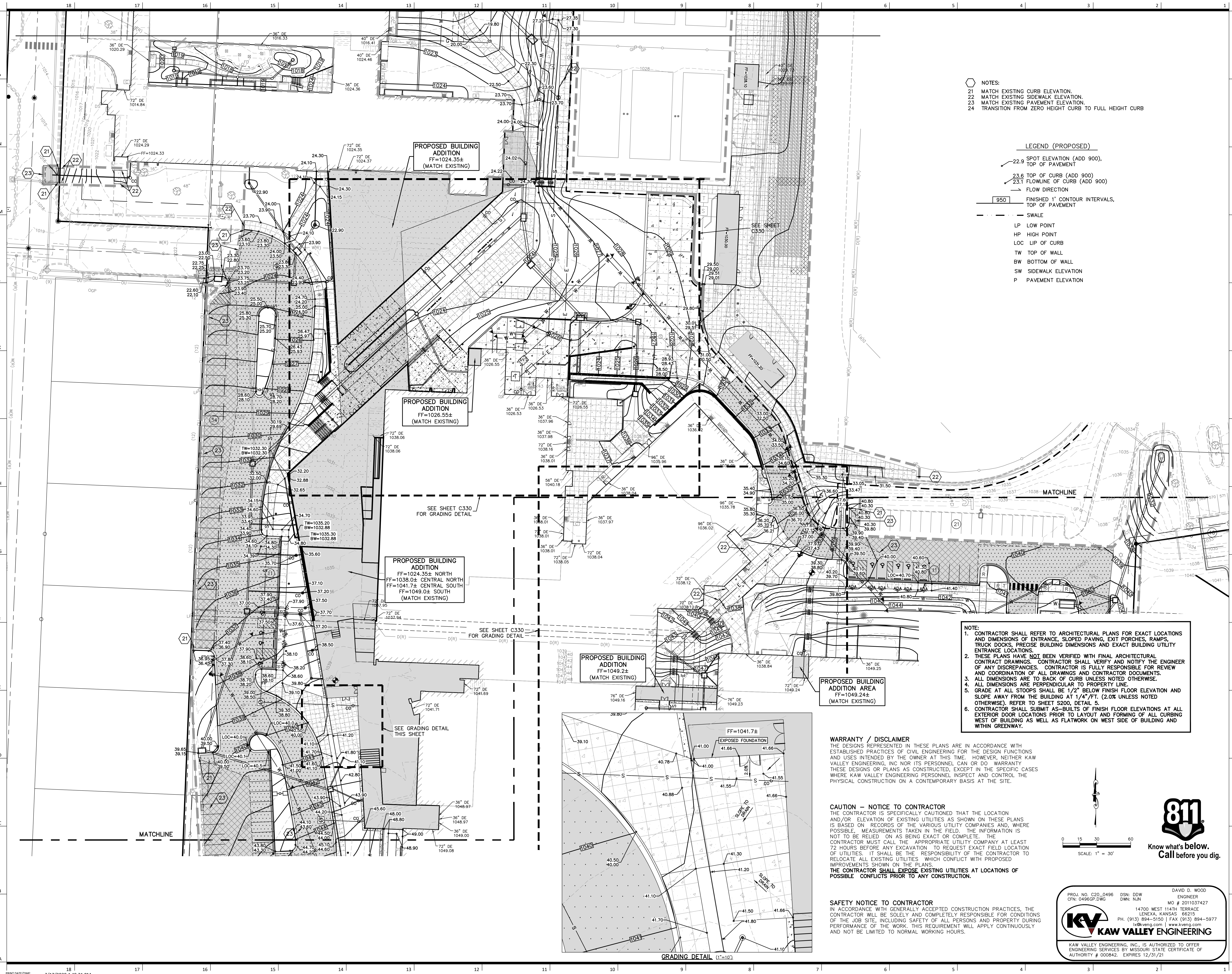
PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

GRADING PLAN - MIDDLE

C325

Issued for Construction





# Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.gould-evans.com

structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
Kaw Valley Engineering  
14700 West 114th Terrace  
Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.8700

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Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

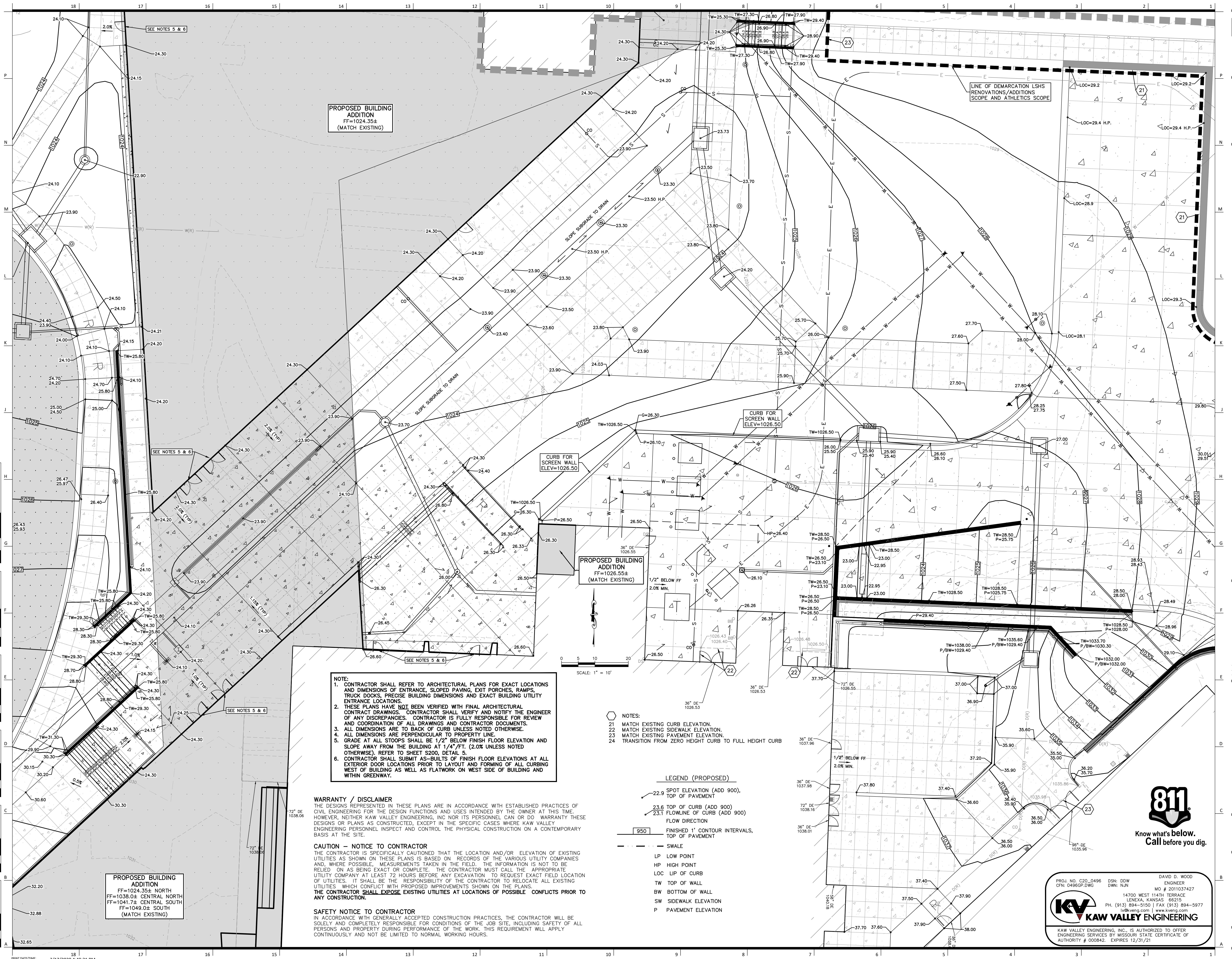
PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

DOCK GRADING DETAIL

C330

Issued for Construction



**WARRANTY / DISCLAIMER**  
THE DESIGN REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

**CAUTION - NOTICE TO CONTRACTOR**  
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

**SAFETY NOTICE TO CONTRACTOR**  
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

PROJ. NO. C20-0496 DSN: DDW  
CFN: 0496GP.DWG DWN: NUN  
MO # 2011037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66115  
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DAVID D. WOOD  
ENGINEER  
KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER  
ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF  
AUTHORITY # 000842, EXPIRES 12/31/21





# Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

architect:  
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4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
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Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.8700

- NOTE:**
1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
  2. THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.
  3. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.
  4. ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.
  5. GRADE AT ALL STOPS SHALL BE 1/2" BELOW FINISH FLOOR ELEVATION AND SLOPE AWAY FROM THE BUILDING AT 1/4"/FT. (2.0% UNLESS NOTED OTHERWISE). REFER TO SHEET S200, DETAIL 5.
  6. CONTRACTOR SHALL SUBMIT AS-BUILTS OF FINISH FLOOR ELEVATIONS AT ALL EXTERIOR DOOR LOCATIONS PRIOR TO LAYOUT AND FORMING OF ALL CURBING WEST OF BUILDING AS WELL AS FLATWORK ON WEST SIDE OF BUILDING AND WITHIN GREENWAY.

- NOTES:**
- 21 MATCH EXISTING CURB ELEVATION.
  - 22 MATCH EXISTING SIDEWALK ELEVATION.
  - 23 MATCH EXISTING PAVEMENT ELEVATION.
  - 24 TRANSITION FROM ZERO HEIGHT CURB TO FULL HEIGHT CURB

- LEGEND (PROPOSED)**
- 22.9 SPOT ELEVATION (ADD 900), TOP OF PAVEMENT
  - 23.6 TOP OF CURB (ADD 900)
  - 23.1 FLOWLINE OF CURB (ADD 900)
  - FLOW DIRECTION
  - 950 FINISHED 1' CONTOUR INTERVALS, TOP OF PAVEMENT
  - SWALE
  - LP LOW POINT
  - HP HIGH POINT
  - LOC LIP OF CURB
  - TW TOP OF WALL
  - BW BOTTOM OF WALL
  - SW SIDEWALK ELEVATION
  - P PAVEMENT ELEVATION

## WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

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**THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.**

## SAFETY NOTICE TO CONTRACTOR

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Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

## REVISIONS

Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

**RELEASE FOR CONSTRUCTION**  
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

GRADING PLAN - NORTH

C340

Issued for Construction

PROJ. NO. C20\_0496 DSN: DDW DAVID D. WOOD  
CFN: 0496GP.DWG DWN: NUN ENGINEER  
MO # 2011037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66215  
PH. (913) 894-5150 | FAX (913) 894-5977  
lv@kve.com www.kve.com

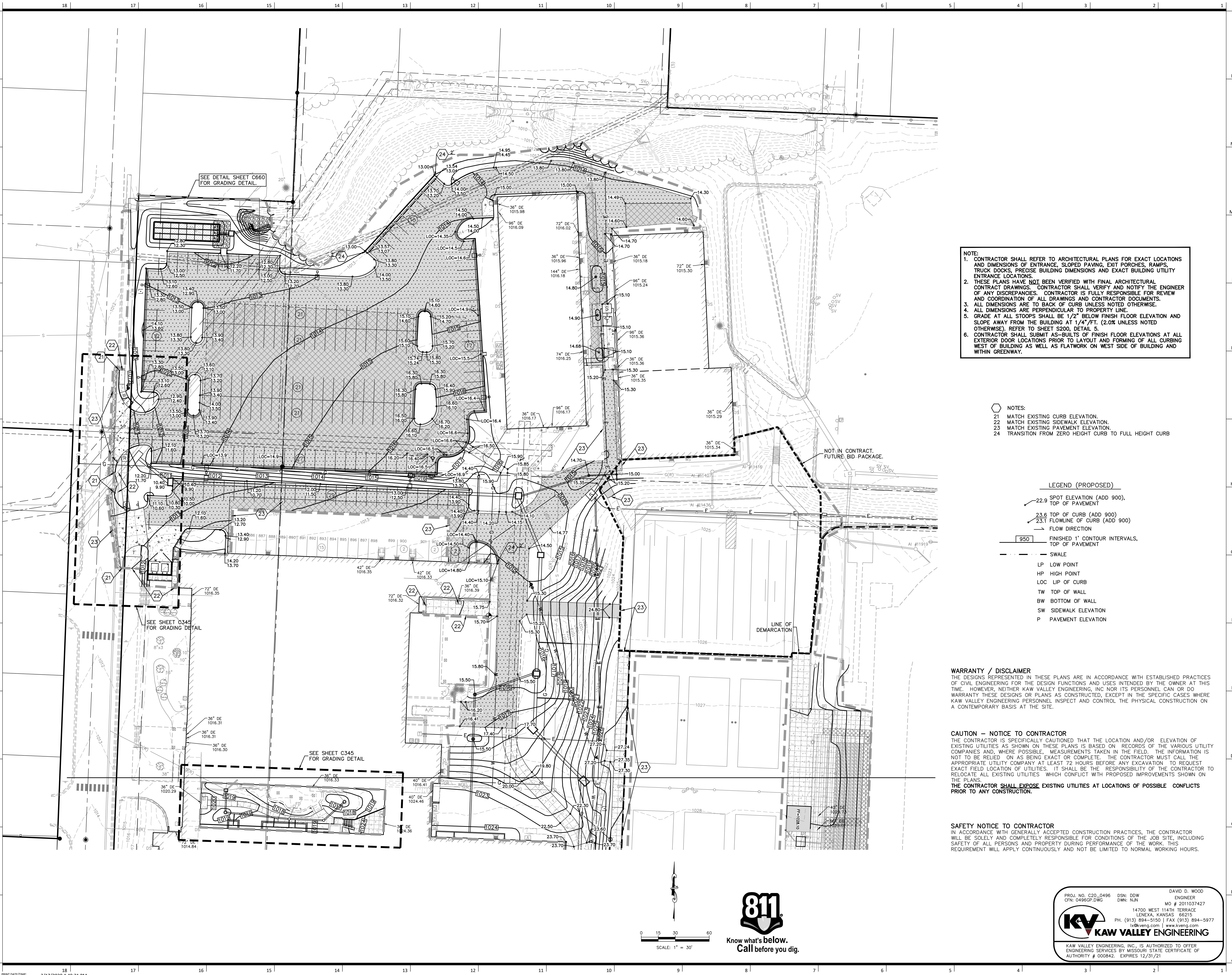
**KV KAW VALLEY ENGINEERING**

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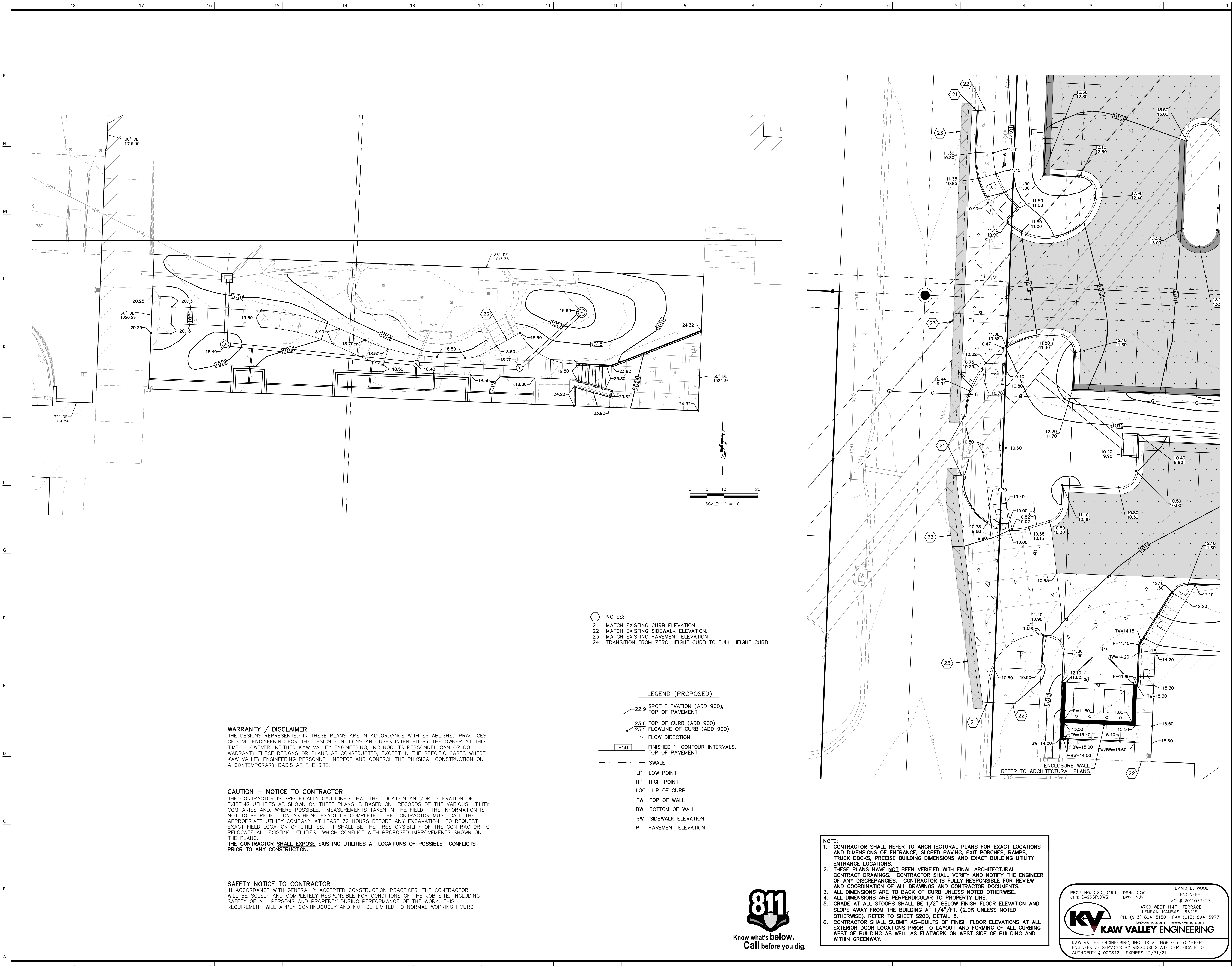


Know what's below.  
Call before you dig.

0 15 30 60  
SCALE: 1" = 30'







## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

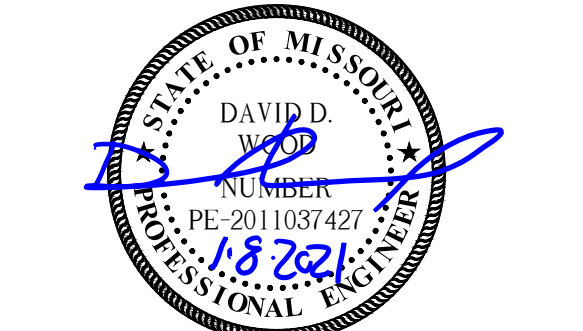
architect:  
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4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
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structural engineer:  
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David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

Number	DESCRIPTION	DATE
1	ADDENDUM #1 PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	11-19-2020
2	PER CITY COMMENTS WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

DETAILED GRADING PLAN

C345

Issued for Construction



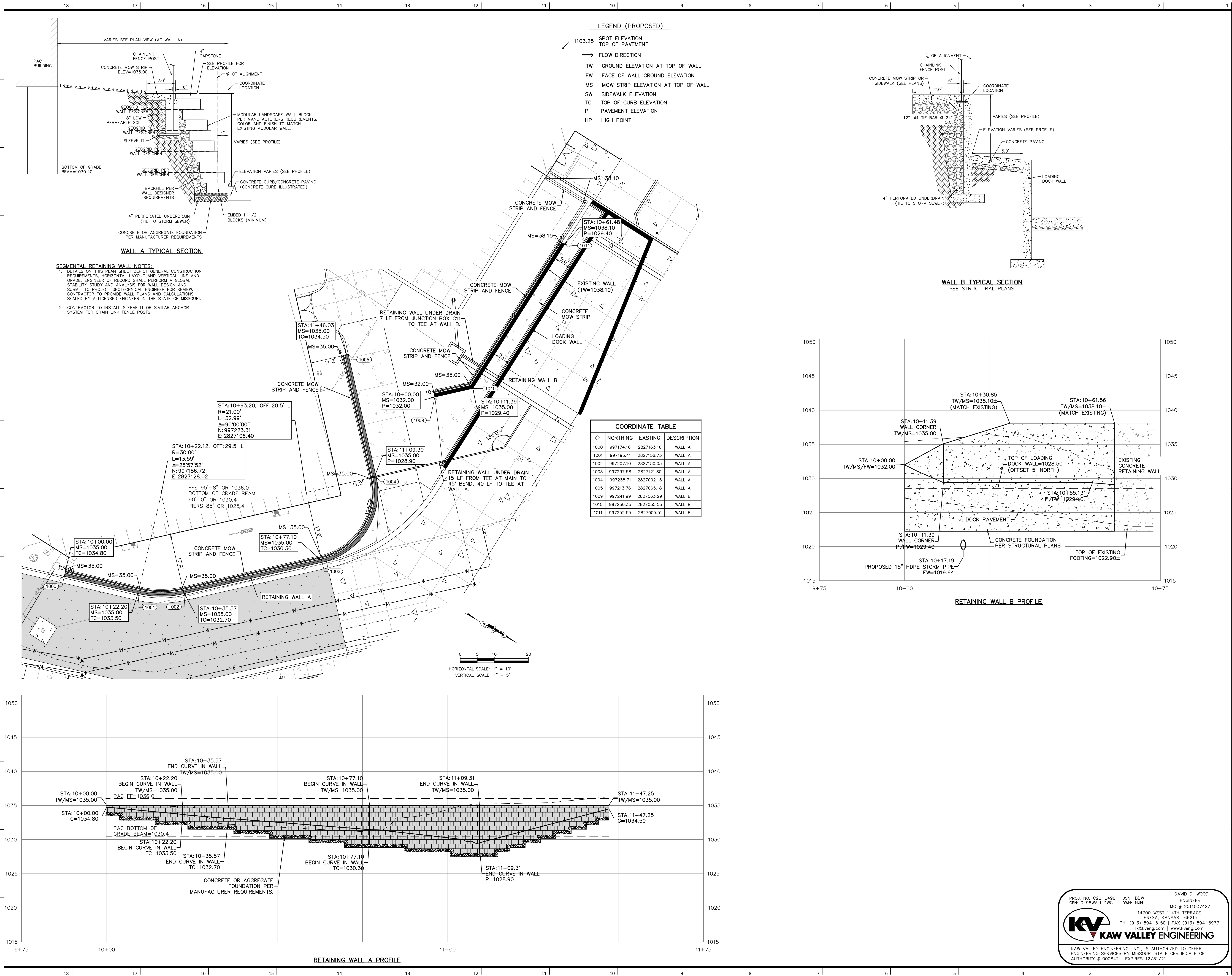
Know what's below.  
Call before you dig.

PROJ. NO. C20\_0496 DSN: DDW DAVID D. WOOD  
CFN: 0496GP.DWG DWN: NJN ENGINEER  
MO # 2011037427  
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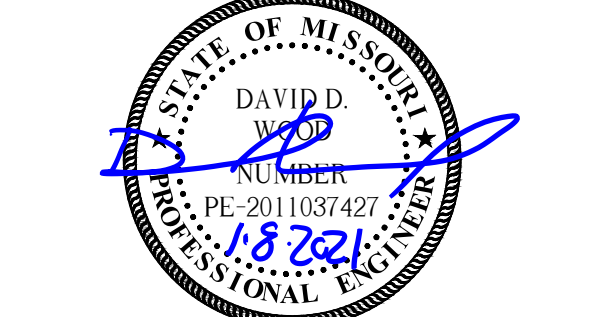
architect:  
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structural engineer:  
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REVISIONS		
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RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

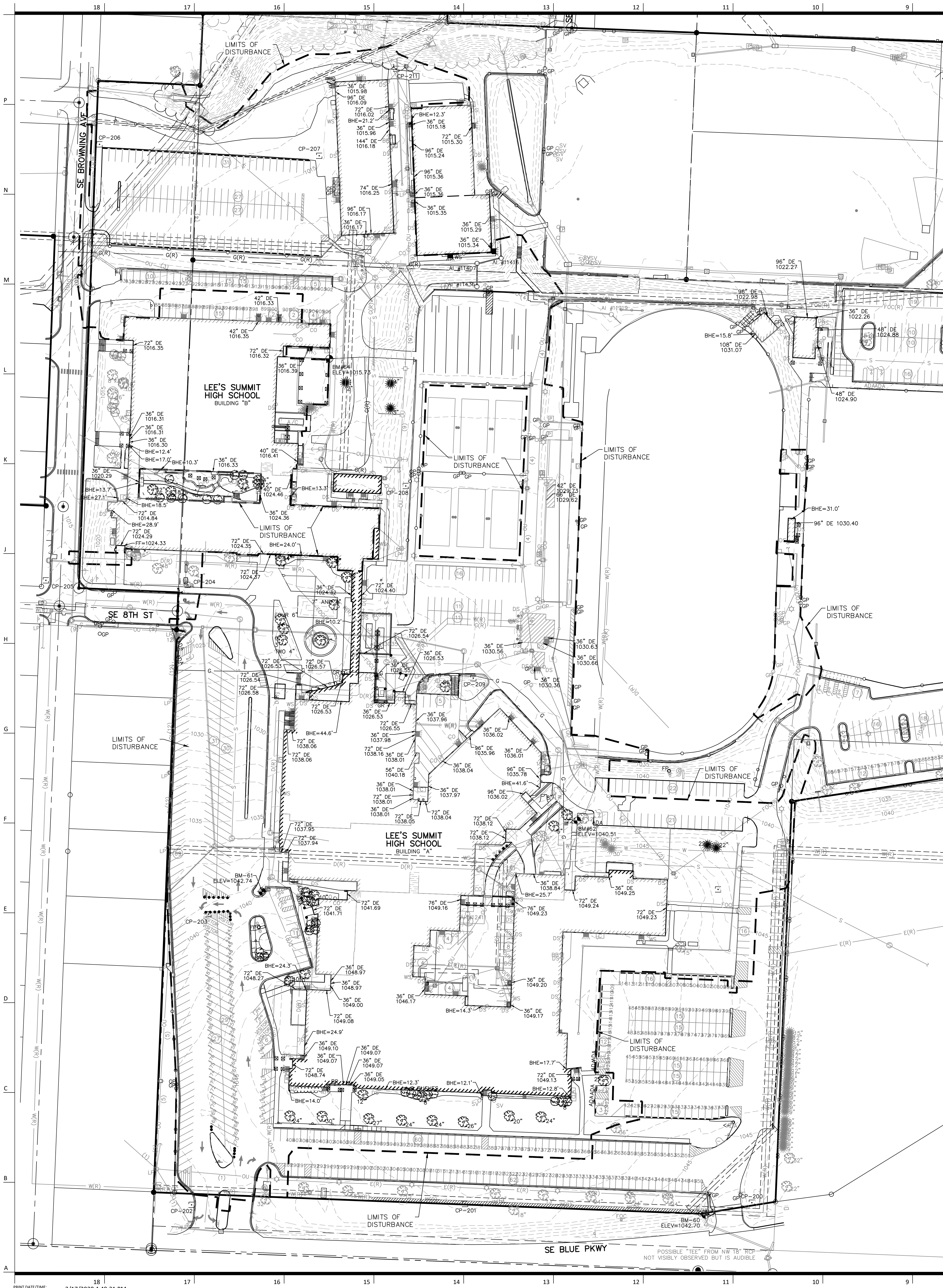
Package 2

PROJ. NO. C20\_0496 DSN: DDW DAVID D. WOOD  
CFN: 0496WALL.DWG DWN: NJN ENGINEER  
MO # 2011037427  
14700 WEST 114TH TERRACE  
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Issued for Construction

C350





DESCRIPTIONS: (PER TITLE COMMITMENT)

**TRACT 1:** (MISSOURI WARRANTY DEED, BOOK 923, AT PAGE 743)(DEED 1A)  
ALL OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, EXCEPT THAT PART CONVEYED TO THE STATE OF MISSOURI BY WARRANTY DEED RECORDED IN BOOK 656 AT PAGE 111 (DEED 1B), AND ALSO EXCEPT THAT PART THEREOF CONVEYED TO THE STATE OF MISSOURI BY WARRANTY DEED RECORDED IN BOOK 661 AT PAGE 166 (DEED 1C),  
ALSO EXCEPT THAT PART THEREOF CONVEYED TO ARTHUR B. MCLENNAN AND PAULINE P. MCLENNAN, HUSBAND AND WIFE BY WARRANTY DEED RECORDED IN BOOK 883 AT PAGE 51 (DEED 1D), AND  
ALSO EXCEPT A TRACT OF LAND IN SAID SOUTHWEST QUARTER OF THE NORTHEAST QUARTER, SECTION 8, TOWNSHIP 47, RANGE 31 DESCRIBED AS FOLLOWS:  
BEGINNING AT A POINT 651.69 FEET NORTH OF THE SOUTHEAST CORNER OF THE SAID QUARTER QUARTER SECTION, THENCE WEST 491.69 FEET; THENCE NORTH 63 FEET; THENCE EAST 491.69 FEET TO THE QUARTER SECTION LINE; THENCE SOUTH 63 FEET TO POINT OF BEGINNING.  
**TRACT 2:** (MISSOURI WARRANTY DEED, BOOK 1243, AT PAGE 716)(DEED 2)  
ALL OF THE WEST 327 FEET OF THE NORTH 2 ACRES OF THE SOUTH 5 ACRES OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, MORE PARTICULARLY DESCRIBED AS FOLLOWS:  
BEGINNING AT A POINT 198 FEET NORTH OF THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN JACKSON COUNTY, MISSOURI, AND RUNNING THENCE EAST 327 FEET; THENCE NORTH 132 FEET TO POINT OF BEGINNING.  
**TRACT 3:** (MISSOURI WARRANTY DEED, BOOK 1277, AT PAGE 325)(DEED 3)  
THE SOUTH 5 ACRES OF THE WEST HALF OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.  
**TRACT 4:** (REPORT OF COMMISSIONERS, BOOK 1484, AT PAGE 306)(DEED 4)  
ALL OF THE WEST 327 FEET OF THE SOUTH 3 ACRES OF THAT PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8 TOWNSHIP 47, RANGE 31 IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI DESCRIBED AS FOLLOWS:  
BEGINNING AT THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER AND RUNNING THENCE EAST 327 FEET; THENCE NORTH 198 FEET; THENCE WEST 327 FEET; THENCE SOUTH 198 FEET TO THE POINT OF BEGINNING.  
**TRACT 5:** (MISSOURI WARRANTY DEED, BOOK 1491, AT PAGE 140)(DEED 5)  
ALL THAT PART OF THE EAST HALF OF THE NORTHWEST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI DESCRIBED AS FOLLOWS:  
BEGINNING AT THE NORTHEAST CORNER OF THE INTERSECTION OF 7TH STREET AND BROWNING AVENUE; THENCE SOUTH ALONG THE EAST LINE OF BROWNING AVENUE A DISTANCE OF 678.52 FEET TO THE NORTH 7 ACRES OF THE SOUTH 5 ACRES OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, MORE PARTICULARLY DESCRIBED AS FOLLOWS:  
BEGINNING AT A POINT 556.69 FEET NORTH OF THE SOUTHEAST CORNER OF 1/4 OF 1/4 SECTION; THENCE WEST 491.68 FEET; THENCE NORTH 158 FEET; THENCE EAST 491.69 FEET; THENCE SOUTH 158 FEET TO THE POINT OF BEGINNING. ALL IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.  
EXCEPT THAT PART CONTAINED IN THE REPORT OF COMMISSIONERS RECORDED AS DOCUMENT NO 130181 IN BOOK 189 AT PAGE 465, DESCRIBED AS FOLLOWS:  
ALL THAT PART OF THE SW 1/4 OF THE NE 1/4 OF SECTION 8, T47N, R31W, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI DESCRIBED AS FOLLOWS: BEGINNING AT A POINT 714.69 FEET NORTH AND 57 FEET WEST OF THE SOUTHEAST CORNER OF THE SW 1/4 OF THE NE 1/4 OF SAID SECTION 8, SAID POINT BEING 70 FEET WESTERLY OF THE CENTERLINE OF STATE HIGHWAY DESIGNATED ROUTE 00 (71 BY-PASS), AS MEASURED AT RIGHT ANGLES THERE; THENCE SOUTH 3 DEGREES 14 MINUTES 23 SECONDS WEST PARALLELING SAID HIGHWAY CENTERLINE, 158 FEET; THENCE WEST PARALLELING THE SOUTH LINE OF SAID 1/4 1/4 SECTION, A DISTANCE OF 432 FEET; THENCE NORTH PARALLELING THE EAST LINE OF SAID 1/4 1/4 SECTION, A DISTANCE OF 75 FEET; THENCE NORTHEASTERLY ALONG A STRAIGHT LINE TO THE POINT OF BEGINNING.  
**TRACT 7:** (MISSOURI WARRANTY DEED, BOOK 1869, AT PAGE 312)(DEED 7)  
BEGINNING AT A POINT 1320.0 FEET NORTH OF THE EAST-WEST CENTER LINE OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, AND ON THE EAST LINE OF THE EAST 1/2 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION; THENCE WEST 186.3, THENCE NORTH 100 FEET; THENCE EAST 186.3 FEET TO A POINT ON THE EAST LINE, THENCE SOUTH ON SAID EAST LINE 100.0 FEET TO THE POINT OF BEGINNING, EXCEPTING THEREFROM THAT PART SITUATED IN US HIGHWAY 71 BY-PASS.  
**TRACT 8:** (MISSOURI WARRANTY DEED, BOOK 1869, AT PAGE 313)(DEED 8)  
ALL OF THE SOUTH 3 ACRES OF THE EAST 1/2 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT JACKSON COUNTY, MISSOURI, EXCEPT THE WEST 327 FEET THEREOF AND ALSO EXCEPT THE SOUTH 100 FEET OF THE EAST 186.3 FEET THEREOF.  
**TRACT 9:** (MISSOURI WARRANTY DEED, BOOK 1-79, AT PAGE 635)(DEED 9)  
THE EAST 88.5 FEET OF THAT PART OF LOT 1, MUCKEY ADDITION, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, LYING SOUTH OF THE SOUTH LINE OF 6TH STREET, AS SAID STREET IS DESCRIBED IN DEED RECORDED IN BOOK 1039 AT PAGE 122, EXCEPT THE NORTH 155 FEET OF SAID EAST 88.5 FEET.  
**TRACT 10:** (MISSOURI WARRANTY DEED, BOOK 551, AT PAGE 135)(DEED 10)  
ALL OF THE NORTH 2 ACRES OF THE SOUTH 5 ACRES OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47, RANGE 31, EXCEPT ALL THE WEST 327 FEET THEREOF MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT 198 FEET NORTH OF THE SOUTHWEST CORNER OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47, RANGE 31 AND RUNNING THENCE EAST 327 FEET; THENCE NORTH 132 FEET; THENCE WEST 327 FEET; THENCE SOUTH 132 FEET TO POINT OF BEGINNING, ALL IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.  
**TRACT 11:** (MISSOURI WARRANTY DEED, BOOK 623, AT PAGE 833)(DEED 11)  
THE SOUTH 220 FEET OF THE WEST 88.5 FEET OF LOT 1, MUCKEY ADDITION, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.

DESCRIPTION: (PER TITLE COMMITMENT)

**TRACT 1:** (MISSOURI WARRANTY DEED, Bk. 1-80, Pg. 1904)  
ALL THAT PART OF LOT 3, MUCKEY ADDITION, A SUBDIVISION OF LAND IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI  
ACCORDING TO THE RECORDED PLAT THEREOF, LYING SOUTH OF THE SOUTH LINE OF 6TH STREET IN LEE'S SUMMIT, AS SAID STREET IS DESCRIBED IN THE DEED RECORDED IN BOOK 1039 AT PAGE 122.

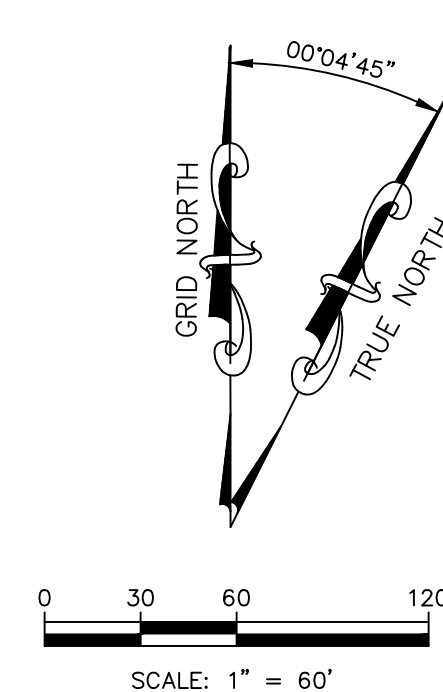
HORIZONTAL AND VERTICAL DATUM:

UNLESS OTHERWISE NOTED THE COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE (1983) WEST ZONE (NAD 1983) (NAD 1983)  
CAP: 0.9999978  
1 METER = 3.28083333 U.S. SURVEY FEET  
GROUND COORDINATES X COMBINED ADJUSTMENT FACTOR (CAF) = GRID COORDINATES  
SCALED AROUND 0.0

JA-25 (PID: 0950205)  
NORTHING: 303,646.030 (GRID/METERS) 996,313.929 (GROUND/FEET)  
EASTING: 860,950.475 (GRID/METERS) 2,824,923.692 (GROUND/FEET)  
ELEVATION: 321.8 (METERS) 1055.77 (FEET)

SITE BENCHMARKS:

**BM-60**  
FOUND CUT SQUARE AT THE WEST NORTHEAST CORNER HEADWALL ON THE WEST SIDE OF THE EAST ENTRY DRIVE TO LEE'S SUMMIT HIGH SCHOOL  
ELEVATION = 1042.70  
**BM-61**  
SET OUT SQUARE WITH PUNCH IN THE SOUTHWEST CORNER ON A CONCRETE LIGHT BASE ON THE NORTH SIDE OF THE DRIVE LINE AT THE HIGH SCHOOL ADMINISTRATION CENTER ENTRY.  
ELEVATION = 1042.74  
**BM-62**  
SET OUT SQUARE AT THE NORTHEAST CORNER OF THE FIRST STEP UP OF A CONCRETE WALK ON THE NORTH SIDE OF THE EAST MAIN WING.  
ELEVATION = 1040.51  
**BM-63**  
SET OUT SQUARE AT THE TOP NORTHEAST CORNER OF A CONCRETE PATIO WITH COVERED TABLES ON THE EAST SIDE OF BUILDING "B".  
ELEVATION = 1015.74  
**BM-64**  
SET OUT SQUARE AT THE TOP NORTHEAST CORNER OF STEPS TO THE NORTH ENTRY TO BUILDING "B" ON THE WEST SIDE.  
ELEVATION = 1015.34

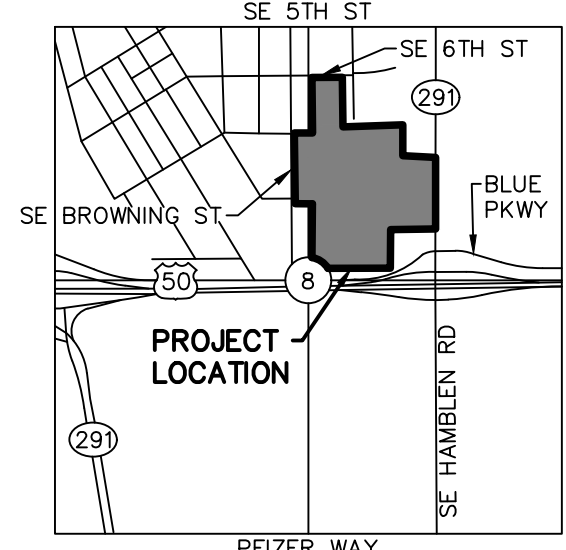


FLOOD STATEMENT:

THE SURVEYED PARCEL LIES WITHIN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS DETERMINED BY FEMA FLOOD INSURANCE RATE MAP NUMBER 29095C04386, MAP REVISED JANUARY 20, 2017, AND BY MAP NUMBER 29095C04366, REVISED JANUARY 20, 2017 LEE'S SUMMIT, JACKSON COUNTY, MISSOURI. LOCATION DETERMINED BY A SCALED GRAPHICAL PLOT OF THE FLOOD INSURANCE RATE MAP.

UNDERGROUND UTILITY STATEMENT:

THE UNDERGROUND UTILITIES SHOWN HEREON ARE DEPICTED FROM FIELD SURVEY INFORMATION OF ONE-CALL LOCATED UTILITIES AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS MADE AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR DOES NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL UNDERGROUND UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION DEPICTED ALTHOUGH HE DOES CERTIFY THAT THEY ARE DEPICTED AS POSSIBLE FROM INFORMATION MADE AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES SHOWN HEREON BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY.  
MISSOURI ONE CALL TICKET NUMBER: #200431409, 200431440, 200431475, 200440745.



VICINITY MAP  
SEC 8 - TWP 47N - RNG 31W  
NOT TO SCALE

LEGEND:

- CONTROL POINT
- BENCHMARK
- STREET/TRAFFIC SIGN
- PAINTED DIRECTIONAL ARROW
- TURN LANE DIRECTION
- HANDICAP SYMBOL
- PARKING STALL COUNT
- WHEEL STOP
- UNDERGROUND FIBER OPTIC CABLE
- UNDERGROUND FIBER OPTIC (FROM RECORDS)
- TELEPHONE PEDESTAL
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- AREA INLET
- CURB INLET
- SANITARY SEWER CLEAN OUT
- FLOOR SPOUT
- DOWN DRAIN
- FLARED END SECTION
- SANITARY SEWER LINE
- STORM SEWER LINE
- CORRUGATED METAL PIPE
- REINFORCED CONCRETE PIPE
- VITRIFIED CLAY PIPE
- DUCTILE IRON PIPE
- HDPPE
- HIGH DENSITY POLYETHYLENE
- WALL MOUNTED LIGHT
- WALL MOUNTED CAMERA
- UNDERGROUND ELECTRIC
- OVERHEAD UTILITY LINE (# OF LINES)
- FULL BOX
- LIGHT POLE
- UTILITY POLE
- UTILITY POLE W/ LIGHT
- UTILITY POLE W/ TRANSFORMER
- GUY ANCHOR
- WATER LINE PER RECORD
- UNDERGROUND ELECTRIC PER RECORD
- WALL MOUNTED ELECTRICAL OUTLET
- BACK TO BACK OF CURB MEASUREMENT
- UNDERGROUND ELECTRIC PEDESTAL
- UNDERGROUND GAS PER RECORD
- SANITARY SEWER LINE PER RECORD
- STORM SEWER LINE PER RECORD
- AIR CONDITIONER
- UNDERGROUND GAS
- GAS METER
- GAS VALVE
- GAS RISER
- GAS LINE SIGN
- EXISTING SPOT ELEVATION
- EXISTING GRADE 5' CONTOUR
- EXISTING GRADE 1' CONTOUR
- DOOR ELEVATION
- AT THRESHOLD
- FINISH FLOOR ELEVATION
- BUILDING HEIGHT/ELEVATION
- EDGE TO EDGE OF ASPHALT
- WATER SPIGOT
- WATER LINE
- WATER METER
- WATER LINE GATE VALVE
- FIRE HYDRANT
- SPRINKLER CONTROL BOX
- WATER MANHOLE
- SPRINKLER VALVE
- SIAMSE FIRE CONNECTOR
- CANOPY SUPPORT
- MAIL BOX
- CONCRETE JOINT/OUT LINE
- BUSH
- DECIDUOUS TREE
- CONIFEROUS TREE
- TREE LINE
- FLAG POLE
- TRASH ENCLOSURE
- LANDSCAPING AREA
- CONC
- CONCRETE
- LOWEST WIRE HEIGHT
- ELECTRIC METER
- SPEAKER BOX
- BREAKER BOX
- HANDICAP SIGN
- HRMP
- GATE POST
- CHAIN LINK FENCE
- WOOD FENCE
- BOLLARD

# Lee's Summit High School

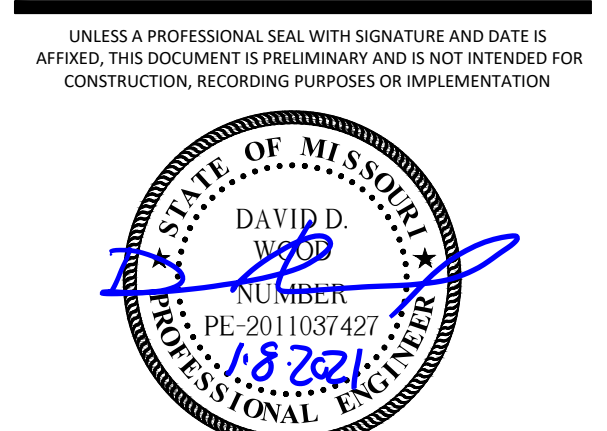
400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.gould-evans.com  
structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
Kaw Valley Engineering  
14700 West 114th Terrace  
Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.0700



Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

Number	DESCRIPTION	DATE
1	ADDENDUM #1 PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	11-19-2020
2	PER CITY COMMENTS WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

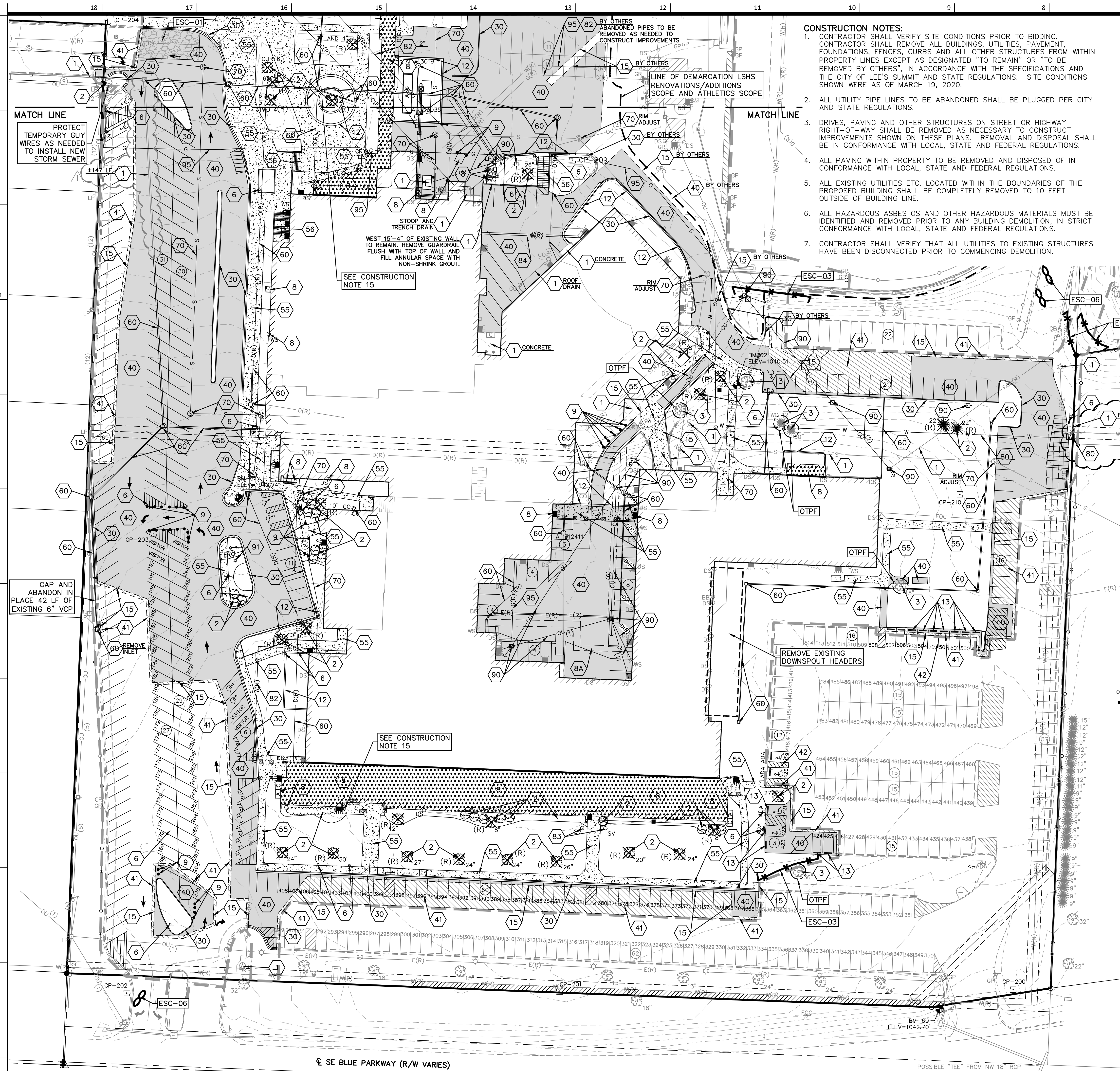
EXISTING CONDITIONS

C400

Issued for Construction

PROJ. NO. C20\_0496 DSN: DWJ DAVID D. WOOD ENGINEER  
CFN: 0496EXCON.DWG DWN: NJN MO # 2011037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66115  
PH. (913) 894-5150 / FAX (913) 894-5977  
www.kve.com www.kve.com  
**KAW VALLEY ENGINEERING**  
KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER  
ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF  
AUTHORITY # 000842, EXPIRES 12/31/21





**WARRANTY / DISCLAIMER**  
THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO, WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTINUOUS BASIS AT THE SITE.

**CAUTION - NOTICE TO CONTRACTOR**  
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

**THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.**

**SAFETY NOTICE TO CONTRACTOR**  
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

FOR THE FOLLOWING DETAILS REFER TO THE KC METROPOLITAN CHAPTER ADOPTED DIVISION III APWA STANDARD DRAWINGS FOR EROSION AND SEDIMENT CONTROL (2017 VERSION) ON SHEETS C480 AND C485.

ESC-01 CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT  
ESC-02 EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MAT  
ESC-03 SEDIMENTATION FENCE  
ESC-04 WATTLE/BIODEGRADABLE LOGS AND MULCH/COMPOST FILTER BERMS  
ESC-06 CURB INLET PROTECTION  
ESC-07 AREA INLET PROTECTION  
ESC-10 ROCK DITCH CHECKS  
ESC-14 OUTLET PROTECTION (REFERENCE DETAIL 406 ON SHEET C695)

CONSTRUCTION ENTRANCE AND STAGING (ESC-01)  
WATTLE/BIODEGRADABLE LOG (ESC-04)  
ROCK DITCH CHECK (ESC-10) OR OUTLET PROTECTION (ESC-14)  
CONCRETE WASH AREA (ESC-01)

**EROSION & PROPOSED IMPROVEMENTS LEGEND:**

EXISTING GROUND CONTOUR (1' INTERVALS)  
PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)  
GRAVEL FILTER BAGS AND INLET PROTECTION (ESC-06 & ESC-07)  
OTPF FENCE (OTPF)  
SEDIMENTATION FENCE (ESC-03)  
LIMITS OF DISTURBANCE  
INDICATES TREE/SHRUB TO BE REMOVED  
CONSTRUCTION ENTRANCE AND STAGING (ESC-01)  
WATTLE/BIODEGRADABLE LOG (ESC-04)  
ROCK DITCH CHECK (ESC-10) OR OUTLET PROTECTION (ESC-14)  
CONCRETE WASH AREA (ESC-01)

**CONSTRUCTION NOTES:**

- CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE ALL BUILDINGS, UTILITIES, PAVEMENT, FOUNDATIONS, FENCES, CURBS AND ALL OTHER STRUCTURES FROM WITHIN PROPERTY LINES EXCEPT AS DESIGNATED "TO REMAIN" OR "TO BE REMOVED BY OTHERS", IN ACCORDANCE WITH THE SPECIFICATIONS AND THE CITY OF LEE'S SUMMIT AND STATE REGULATIONS. SITE CONDITIONS SHOWN WERE AS OF MARCH 19, 2020.
- ALL UTILITY PIPE LINES TO BE ABANDONED SHALL BE PLUGGED PER CITY AND STATE REGULATIONS.
- DRIVES, PAVING AND OTHER STRUCTURES ON STREET OR HIGHWAY RIGHT-OF-WAY SHALL BE REMOVED AS NECESSARY TO CONSTRUCT IMPROVEMENTS SHOWN ON THESE PLANS. REMOVAL AND DISPOSAL SHALL BE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- ALL PAVING WITHIN PROPERTY TO BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- ALL EXISTING UTILITIES ETC. LOCATED WITHIN THE BOUNDARIES OF THE PROPOSED BUILDING SHALL BE COMPLETELY REMOVED TO 10 FEET OUTSIDE OF BUILDING LINE.
- ALL HAZARDOUS ASBESTOS AND OTHER HAZARDOUS MATERIALS MUST BE IDENTIFIED AND REMOVED PRIOR TO ANY BUILDING DEMOLITION, IN STRICT CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- CONTRACTOR SHALL VERIFY THAT ALL UTILITIES TO EXISTING STRUCTURES HAVE BEEN DISCONNECTED PRIOR TO COMMENCING DEMOLITION.

8. EXISTING POWER LINES AND APPURTENANCES TO BE RELOCATED. COORDINATE WITH LOCAL UTILITIES.

9. ALL SLOPES THAT ARE 4:1 OR STEEPER MUST BE FULLY OR PERMANENTLY STABILIZED WITHIN TWO WEEKS OF FINAL GRADING.

10. CONTRACTOR HAS THE OPTION TO CONSTRUCT MULCH BERMS FROM TREE REMOVAL IN LIEU OF SILT FENCE ALONG TREE LINES. SEE DETAIL ESC-04.

11. STAGE INSTALL OF CONSTRUCTION STAGING AND ACCESS AREA AS CONSTRUCTION PROGRESSES ON SITE. WEST PARKING LOT TO REMAIN TO THE MAXIMUM EXTENTS PRACTICAL TO MAINTAIN SITE CIRCULATION AND BUS ACCESS. COORDINATE WITH CM'S SITE LOGISTIC PLAN.

12. PROVIDE CONSTRUCTION FENCING AS NOTED ON CM'S SITE LOGISTIC PLAN.

13. WORK ON WEST SIDE OF THE BUILDING ADDITION TO BE SCHEDULED TO MAINTAIN ACCESS TO RECEIVING DOOR AND TRASH PICK UP. COORDINATE WITH CM'S CONSTRUCTION SCHEDULE.

14. ALL DEMOLITION OF EXISTING SITE FEATURES NORTH AND EAST OF DEMARCATION LINE IS BY ATHLETICS CONTRACTOR. REFER TO N-C SERIES SHEETS FOR COORDINATES.

15. BENCH ON SOUTH SIDE OF SCHOOL AND MEMORIAL IN LANDSCAPE ISLAND TO BE CAREFULLY REMOVED AND SALVAGED TO LSSD FOR RELOCATION.

**GENERAL NOTES:**

- REFER TO SHEET C490 AND LANDSCAPE PLAN FOR TEMPORARY AND PERMANENT SEEDING/STABILIZATION REQUIREMENTS.
- REFER TO APWA STANDARD ESC DRAWINGS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.

#### DEMOLITION

- TO REMAIN.
- REMOVE TREES/BUSHES/LANDSCAPING/SITE FURNITURE. (COORDINATE WITH PROJECT LANDSCAPE PLAN)
- TREES TO REMAIN. PROVIDE TREE PROTECTION FENCE AT DRIPLINE. A MINIMUM RADIUS OF 10' FROM TREE SHALL BE PROVIDED ANYWHERE WHERE PORTIONS OF DRIPLINE ARE NOT FENCED OFF, A LAYER OF MULCH (6" MINIMUM) SHALL BE PROVIDED TO PROTECT ROOT SYSTEM FROM DAMAGE.
- SIGN TO BE REMOVED
- SIGN TO BE RELOCATED
- REMOVE BUILDING AND BUILDING EQUIPMENT. (COORDINATE WITH ARCHITECTURAL AND MEP PLAN)
- REMOVE EXISTING SERVICE TUNNEL AFTER UTILITIES HAVE BEEN ABANDONED. SEAL PENETRATIONS AT BUILDING IN ACCORDANCE WITH ARCHITECTURAL AND STRUCTURAL PLANS
- CONCRETE BOLLARD/TALL DELINEATORS TO BE REMOVED. (COORDINATE WITH ARCHITECTURAL PLAN)
- FENCE AND FENCE POST TO BE REMOVED AS NECESSARY TO CONSTRUCT IMPROVEMENTS.
- STRUCTURAL AND/OR RETAINING WALL TO BE REMOVED. (COORDINATE WITH STRUCTURAL PLANS IF TIED TO BUILDING)
- CONCRETE BOLLARD STOP TO BE REMOVED.
- SAW CUT LINE (FOR CONCRETE SAW CUT AT NEAREST CONTROL JOINT. FOR ASPHALT SAW CUT MINIMUM OF 6" FROM NEW CURB LINE). SEE SHEET C100 AND C200 FOR LIMITS.
- CONTRACTOR TO REMOVE CONCRETE CURBS TO CONSTRUCT IMPROVEMENTS. SEE SHEET C100 AND C200 FOR LIMITS.
- CONTRACTOR TO REMOVE ASPHALT PAVING AS REQUIRED TO CONSTRUCT IMPROVEMENTS.
- CONTRACTOR TO MILL ASPHALT SURFACE, MINIMUM 2' OUTSIDE ASPHALT REMOVAL. REFER TO C100 AND C200 SHEETS FOR LIMITS. REFER TO SECTIONS A-A AND B-B ON SHEET C190.
- CONTRACTOR TO BLACK OUT PARKING LOT STRIPING ON ASPHALT TO REMAIN.
- CONTRACTOR TO REMOVE GRAVEL SURFACE
- CONTRACTOR TO REMOVE CONCRETE PAVING AND WALKS.
- CONTRACTOR TO REMOVE CONCRETE STAIRS.
- CONTRACTOR TO MODIFY, REMOVE AND/OR REROUTE STORM SEWER PRIOR TO CONSTRUCTING ADDITIONS. REFER TO C600 SHEETS FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO MODIFY, REMOVE AND/OR REROUTE EXISTING SANITARY SEWER PRIOR TO CONSTRUCTING ADDITION. REFER TO C500 AND P SERIES SHEETS FOR ADDITIONAL INFORMATION.
- EXISTING PRIVATE FIRE LINE FROM EAST PROPERTY LINE TO PERFORMING ARTS CENTER IS TO BE REPLACED. REFER TO C500 SHEETS. PIPING THAT INTERFERES WITH PROPOSED CONSTRUCTION SHALL BE REMOVED. OTHER PIPE MAY BE ABANDONED IN PLACE IN ACCORDANCE WITH LS SPECIFICATIONS SECTION 3902 B.12 COORDINATE DISCONNECT AT PUBLIC MAIN WITH CITY OF LEE'S SUMMIT UTILITIES. EXISTING BACKFLOW PREVENTER AND VAULT TO BE REMOVED.
- CONTRACTOR TO RELOCATE AND RE-ANCHOR EXISTING SANITARY SEWER SERVICE LINE ROUTED EXTERIOR TO THE BUILDING AS NECESSARY TO CONSTRUCT THE BUILDING ADDITIONS AND SITE IMPROVEMENTS AS APPLICABLE REFER TO C500 SHEETS AND MEP PLANS FOR ADDITIONAL INFORMATION.
- REMOVE SPRINKLER HEAD
- EXISTING CHILLED WATER LINES ARE TO BE REROUTED AND LOWERED TO PROVIDE A MINIMUM OF 42" OF COVER. REFER TO C500 SHEETS AND MEP PLANS FOR ADDITIONAL INFORMATION.
- REMOVE OVERHEAD ELECTRIC AND POLES. REFER TO SITE ELECTRICAL PLAN AS APPLICABLE. COORDINATE TIMING WITH GM/S SITE LOGISTICS PLAN
- REMOVE SITE LIGHTING REFER TO SITE ELECTRICAL PLAN. COORDINATE WITH EVERGY AS APPLICABLE.
- EXISTING GAS SERVICE AND APPURTENANCES TO BE REMOVED, REPLACED OR RELOCATED PRIOR TO CONSTRUCTING ADDITION. (COORDINATE WITH C500, SPIRE ENERGY AND MEP PLANS)

#### LEGEND:

UNDERGROUND ELECTRIC PER RECORD  
AIR CONDITIONER  
WALL MOUNTED ELECTRICAL OUTLET  
UNDERGROUND GAS  
GAS METER  
GAS VALVE  
GAS RISER  
GAS LINE SIGN  
EXISTING GRADE 5' CONTOUR  
EXISTING GRADE 1' CONTOUR  
WATER LINE  
WATER METER  
WATER LINE GATE VALVE  
FIRE HYDRANT  
SPRINKLER CONTROL BOX  
WATER MANHOLE  
SPRINKLER VALVE  
SIAMSE FIRE CONNECTOR  
CANOPY SUPPORT  
MAIL BOX  
CONCRETE JOINT/CUT LINE  
BUSH  
DECIDUOUS TREE  
CONIFEROUS TREE  
TREE LINE  
FLAG POLE  
TRASH ENCLOSURE  
LANDSCAPING AREA  
CONC CONCRETE

VITRIFIED CLAY PIPE  
DUCTILE IRON PIPE  
HIGH DENSITY POLYETHYLENE  
WALL MOUNTED CAMERA  
UNDERGROUND UTILITY  
OVERHEAD ELECTRIC LINE (# OF LINES)  
PULL BOX  
LIGHT POLE  
UTILITY POLE  
UTILITY POLE W/ LIGHT  
UTILITY POLE W/ TRANSFORMER  
GUY ANCHOR  
WATER LINE PER RECORD  
LOWEST WIRE HEIGHT  
ELECTRIC METER  
UNDERGROUND ELECTRIC PEDESTAL  
SPEAKER BOX  
BREAKER BOX  
UNDERGROUND GAS PER RECORD  
SANITARY SEWER LINE PER RECORD  
STORM SEWER LINE PER RECORD

GRAVEL TO BE REMOVED  
ASPHALT PAVING TO BE REMOVED  
CONCRETE PAVING/SIDEWALKS TO BE REMOVED  
AREA TO BE MILLED  
BUILDING TO BE REMOVED



Know what's below.  
Call before you dig.

PROJ. NO. C20-0496 DSK: DOW DAVID D. WOOD  
CFN: 0496ECF1.DWG DWN: NJN ENGINEER  
MO # 201037427  
14700 WEST 114TH TERRACE  
LENEKA, KANSAS 66215  
PH. (913) 894-5150 / FAX (913) 894-5977  
www.kveng.com www.kveng.com

**KAW VALLEY ENGINEERING**

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/21

gould evans

kansas city • lawrence • new orleans  
phoenix • san francisco

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## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 The Tudor Road  
Lee's Summit, MO 64086

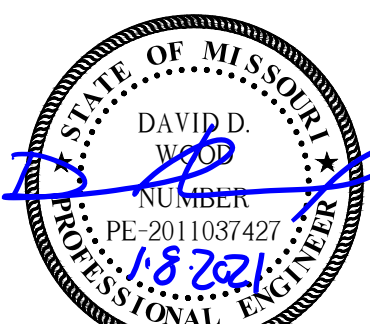
architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.gould-evans.com

structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
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civil engineer:  
Kaw Valley Engineering  
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Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.6700

UNLESS A PROFESSIONAL SEAL, WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION



Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

#### REVISIONS

Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

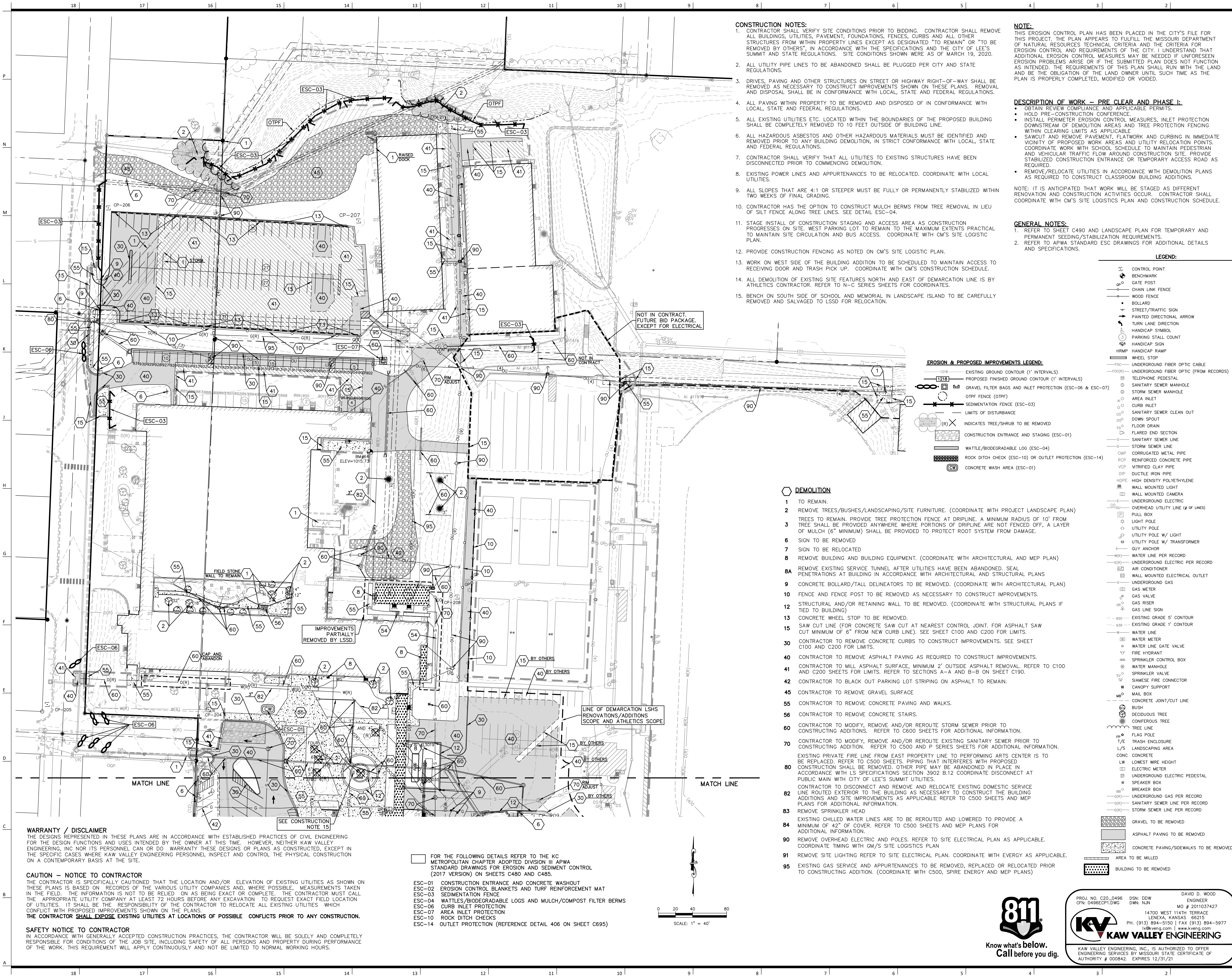
Package 2

DEMOLITION AND  
EROSION CONTROL PLAN  
- PHASE I SOUTH

C410

Issued for Construction





CONSTRUCTION NOTES:

- CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE ALL BUILDINGS, UTILITIES, PAVEMENT, FOUNDATIONS, FENCES, CURBS AND ALL OTHER STRUCTURES FROM WITHIN PROPERTY LINES EXCEPT AS DESIGNATED "TO REMAIN" OR "TO BE REMOVED BY OTHERS", IN ACCORDANCE WITH THE SPECIFICATIONS AND THE CITY OF LEE'S SUMMIT AND STATE REGULATIONS. SITE CONDITIONS SHOWN WERE AS OF MARCH 19, 2020.
- ALL UTILITY PIPE LINES TO BE ABANDONED SHALL BE PLUGGED PER CITY AND STATE REGULATIONS.
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- ALL PAVING WITHIN PROPERTY TO BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- ALL EXISTING UTILITIES ETC. LOCATED WITHIN THE BOUNDARIES OF THE PROPOSED BUILDING SHALL BE COMPLETELY REMOVED TO 10 FEET OUTSIDE OF BUILDING LINE.
- ALL HAZARDOUS ASBESTOS AND OTHER HAZARDOUS MATERIALS MUST BE IDENTIFIED AND REMOVED PRIOR TO ANY BUILDING DEMOLITION, IN STRICT CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- CONTRACTOR SHALL VERIFY THAT ALL UTILITIES TO EXISTING STRUCTURES HAVE BEEN DISCONNECTED PRIOR TO COMMENCING DEMOLITION.
- EXISTING POWER LINES AND APPURTENANCES TO BE RELOCATED. COORDINATE WITH LOCAL UTILITIES.
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- STAGE INSTALL OF CONSTRUCTION STAGING AND ACCESS AREA AS CONSTRUCTION PROGRESSES ON SITE. WEST PARKING LOT TO REMAIN TO THE MAXIMUM EXTENTS PRACTICAL TO MAINTAIN SITE CIRCULATION AND BUS ACCESS. COORDINATE WITH CM'S SITE LOGISTIC PLAN.
- PROVIDE CONSTRUCTION FENCING AS NOTED ON CM'S SITE LOGISTIC PLAN.
- WORK ON WEST SIDE OF THE BUILDING ADDITION TO BE SCHEDULED TO MAINTAIN ACCESS TO RECEIVING DOOR AND TRASH PICK UP. COORDINATE WITH CM'S CONSTRUCTION SCHEDULE.
- ALL DEMOLITION OF EXISTING SITE FEATURES NORTH AND EAST OF DEMARCATION LINE IS BY ATHLETICS CONTRACTOR. REFER TO N-C SERIES SHEETS FOR COORDINATES.
- BENCH ON SOUTH SIDE OF SCHOOL AND MEMORIAL IN LANDSCAPE ISLAND TO BE CAREFULLY REMOVED AND SALVAGED TO LSSD FOR RELOCATION.

NOTE:

THIS EROSION CONTROL PLAN HAS BEEN PLACED IN THE CITY'S FILE FOR THIS PROJECT. THE PLAN APPEARS TO FULFILL THE MISSOURI DEPARTMENT OF NATURAL RESOURCES TECHNICAL CRITERIA AND THE CRITERIA FOR EROSION CONTROL AND REQUIREMENTS OF THE CITY. I UNDERSTAND THAT ADDITIONAL EROSION CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN EROSION PROBLEMS ARISE OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

DESCRIPTION OF WORK -- PRE CLEAR AND PHASE I:

- OBTAIN REVIEW COMPLIANCE AND APPLICABLE PERMITS.
- HOLD PRE-CONSTRUCTION CONFERENCE.
- INSTALL PERIMETER EROSION CONTROL MEASURES, INLET PROTECTION DOWNSTREAM OF DEMOLITION AREAS AND TREE PROTECTION FENCING WITHIN CLEARING LIMITS AS APPLICABLE.
- SAWCUT AND REMOVE PAVEMENT, FLATWORK AND CURBING IN IMMEDIATE VICINITY OF PROPOSED WORK AREAS AND UTILITY RELOCATION POINTS. COORDINATE WORK WITH SCHOOL SCHEDULE TO MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC FLOW AROUND CONSTRUCTION SITE. PROVIDE STABILIZED CONSTRUCTION ENTRANCE OR TEMPORARY ACCESS ROAD AS REQUIRED.
- REMOVE/RELOCATE UTILITIES IN ACCORDANCE WITH DEMOLITION PLANS AS REQUIRED TO CONSTRUCT CLASSROOM BUILDING ADDITIONS.

NOTE: IT IS ANTICIPATED THAT WORK WILL BE STAGED AS DIFFERENT DEMOLITION AND CONSTRUCTION ACTIVITIES OCCUR. CONTRACTOR SHALL COORDINATE WITH CM'S SITE LOGISTICS PLAN AND CONSTRUCTION SCHEDULE.

GENERAL NOTES:

- REFER TO SHEET C490 AND LANDSCAPE PLAN FOR TEMPORARY AND PERMANENT SEEDING/STABILIZATION REQUIREMENTS.
- REFER TO APWA STANDARD ESC DRAWINGS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.

LEGEND:

- CONTROL POINT
- BENCHMARK
- GATE POST
- CHAIN LINK FENCE
- WOOD FENCE
- BARB
- STREET/TRAFFIC SIGN
- PAINTED DIRECTIONAL ARROW
- TURN LANE DIRECTION
- HANDICAP SYMBOL
- PARKING STALL COUNT
- HANDICAP SIGN
- HRMP
- HANDICAP RAMP
- WHEEL STOP
- UNDERGROUND FIBER OPTIC CABLE
- UNDERGROUND FIBER OPTIC (FROM RECORDS)
- TELEPHONE PEDESTAL
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- AREA INLET
- CURB INLET
- SANITARY SEWER CLEAN OUT
- DOWN SPOUT
- FLOOR DRAIN
- FLARED END SECTION
- SANITARY SEWER LINE
- STORM SEWER LINE
- CORRUGATED METAL PIPE
- REINFORCED CONCRETE PIPE
- VITRIFIED CLAY PIPE
- DUCTILE IRON PIPE
- HIGH DENSITY POLYETHYLENE
- WALL MOUNTED LIGHT
- WALL MOUNTED CAMERA
- UNDERGROUND ELECTRIC
- OVERHEAD UTILITY LINE (# OF LINES)
- PULL BOX
- LIGHT POLE
- UTILITY POLE
- UTILITY POLE W/ LIGHT
- UTILITY POLE W/ TRANSFORMER
- GUY ANCHOR
- WATER LINE PER RECORD
- UNDERGROUND ELECTRIC PER RECORD
- AIR CONDITIONER
- WALL MOUNTED ELECTRICAL OUTLET
- UNDERGROUND GAS
- GAS METER
- GAS VALVE
- GAS RISER
- GAS LINE SIGN
- EXISTING GRADE 5' CONTOUR
- EXISTING GRADE 1' CONTOUR
- WATER LINE
- WATER METER
- WATER LINE GATE VALVE
- FIRE HYDRANT
- SPRINKLER CONTROL BOX
- WATER MANHOLE
- SPRINKLER VALVE
- SIAMSE FIRE CONNECTOR
- CANOPY SUPPORT
- MAIL BOX
- CONCRETE JOINT/CUT LINE
- BUSH
- DECIDUOUS TREE
- CONIFEROUS TREE
- TREE LINE
- FLAG POLE
- TRASH ENCLOSURE
- LANDSCAPING AREA
- CONC
- LOWEST WIRE HEIGHT
- ELECTRIC METER
- UNDERGROUND ELECTRIC PEDESTAL
- SPEAKER BOX
- BREAKER BOX
- UNDERGROUND GAS PER RECORD
- SANITARY SEWER LINE PER RECORD
- STORM SEWER LINE PER RECORD
- GRAVEL TO BE REMOVED
- ASPHALT PAVING TO BE REMOVED
- CONCRETE PAVING/SIDEWALKS TO BE REMOVED
- AREA TO BE MILLED
- BUILDING TO BE REMOVED

EROSION & PROPOSED IMPROVEMENTS LEGEND:

- EXISTING GROUND CONTOUR (1' INTERVALS)
- PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
- GRAVEL FILTER BAGS AND INLET PROTECTION (ESC-06 & ESC-07)
- OTPF FENCE (OTPF)
- SEDIMENTATION FENCE (ESC-03)
- LIMITS OF DISTURBANCE
- INDICATES TREE/SHRUB TO BE REMOVED
- CONSTRUCTION ENTRANCE AND STAGING (ESC-01)
- WATTLE/BIODEGRADABLE LOG (ESC-04)
- ROCK DITCH CHECK (ESC-10) OR OUTLET PROTECTION (ESC-14)
- CONCRETE WASH AREA (ESC-01)

DEMOLITION

- TO REMAIN.
- REMOVE TREES/BUSHES/LANDSCAPING/SITE FURNITURE. (COORDINATE WITH PROJECT LANDSCAPE PLAN)
- TREES TO REMAIN. PROVIDE TREE PROTECTION FENCE AT DRIPLINE. A MINIMUM RADIUS OF 10' FROM TREE SHALL BE PROVIDED ANYWHERE WHERE PORTIONS OF DRIPLINE ARE NOT FENCED OFF. A LAYER OF MULCH (6" MINIMUM) SHALL BE PROVIDED TO PROTECT ROOT SYSTEM FROM DAMAGE.
- SIGN TO BE REMOVED
- SIGN TO BE RELOCATED
- REMOVE BUILDING AND BUILDING EQUIPMENT. (COORDINATE WITH ARCHITECTURAL AND MEP PLAN)
- REMOVE EXISTING SERVICE TUNNEL AFTER UTILITIES HAVE BEEN ABANDONED. SEAL PENETRATIONS AT BUILDING IN ACCORDANCE WITH ARCHITECTURAL AND STRUCTURAL PLANS
- CONCRETE BOLLARD/TALL DELINEATORS TO BE REMOVED. (COORDINATE WITH ARCHITECTURAL PLAN)
- FENCE AND FENCE POST TO BE REMOVED AS NECESSARY TO CONSTRUCT IMPROVEMENTS.
- STRUCTURAL AND/OR RETAINING WALL TO BE REMOVED. (COORDINATE WITH STRUCTURAL PLANS IF TIED TO BUILDING)
- CONCRETE WHEEL STOP TO BE REMOVED.
- SAW CUT LINE (FOR CONCRETE SAW CUT AT NEAREST CONTROL JOINT. FOR ASPHALT SAW CUT MINIMUM OF 6" FROM NEW CURB LINE). SEE SHEET C100 AND C200 FOR LIMITS.
- CONTRACTOR TO REMOVE CONCRETE CURBS TO CONSTRUCT IMPROVEMENTS. SEE SHEET C100 AND C200 FOR LIMITS.
- CONTRACTOR TO REMOVE ASPHALT PAVING AS REQUIRED TO CONSTRUCT IMPROVEMENTS.
- CONTRACTOR TO MILL ASPHALT SURFACE. MINIMUM 2" OUTSIDE ASPHALT REMOVAL. REFER TO C100 AND C200 SHEETS FOR LIMITS. REFER TO SECTIONS A-A AND B-B ON SHEET C190.
- CONTRACTOR TO BLACK OUT PARKING LOT STRIPING ON ASPHALT TO REMAIN.
- CONTRACTOR TO REMOVE GRAVEL SURFACE
- CONTRACTOR TO REMOVE CONCRETE PAVING AND WALKS.
- CONTRACTOR TO REMOVE CONCRETE STAIRS.
- CONTRACTOR TO MODIFY, REMOVE AND/OR REROUTE STORM SEWER PRIOR TO CONSTRUCTING ADDITIONS. REFER TO C600 SHEETS FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO MODIFY, REMOVE AND/OR REROUTE EXISTING SANITARY SEWER PRIOR TO CONSTRUCTING ADDITION. REFER TO C500 AND P SERIES SHEETS FOR ADDITIONAL INFORMATION.
- EXISTING PRIVATE FIRE LINE FROM EAST PROPERTY LINE TO PERFORMING ARTS CENTER IS TO BE REPLACED. REFER TO C500 SHEETS. PIPING THAT INTERFERES WITH PROPOSED CONSTRUCTION SHALL BE REMOVED. OTHER PIPE MAY BE ABANDONED IN PLACE IN ACCORDANCE WITH LS SPECIFICATIONS SECTION 3902 B.12 COORDINATE DISCONNECT AT PUBLIC MAIN WITH CITY OF LEE'S SUMMIT UTILITIES.
- CONTRACTOR TO DISCONNECT AND REMOVE AND RELOCATE EXISTING DOMESTIC SERVICE LINE ROUTED EXTERIOR TO THE BUILDING AS NECESSARY TO CONSTRUCT THE BUILDING ADDITIONS AND SITE IMPROVEMENTS AS APPLICABLE REFER TO C500 SHEETS AND MEP PLANS FOR ADDITIONAL INFORMATION.
- REMOVE SPRINKLER HEAD
- EXISTING CHILLED WATER LINES ARE TO BE REROUTED AND LOWERED TO PROVIDE A MINIMUM OF 42" OF COVER. REFER TO C500 SHEETS AND MEP PLANS FOR ADDITIONAL INFORMATION.
- REMOVE OVERHEAD ELECTRIC AND POLES. REFER TO SITE ELECTRICAL PLAN AS APPLICABLE. COORDINATE TIMING WITH GM/S SITE LOGISTICS PLAN
- REMOVE SITE LIGHTING REFER TO SITE ELECTRICAL PLAN. COORDINATE WITH EVERGY AS APPLICABLE.
- EXISTING GAS SERVICE AND APPURTENANCES TO BE REMOVED, REPLACED OR RELOCATED PRIOR TO CONSTRUCTING ADDITION. (COORDINATE WITH C500, SPIRE ENERGY AND MEP PLANS)

WARRANTY / DISCLAIMER

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CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

FOR THE FOLLOWING DETAILS REFER TO THE KC METROPOLITAN CHAPTER ADOPTED DIVISION III APWA STANDARD DRAWINGS FOR EROSION AND SEDIMENT CONTROL (2017 VERSION) ON SHEETS C480 AND C485.

- ESC-01 CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT
- ESC-02 EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MAT
- ESC-03 SEDIMENTATION FENCE
- ESC-04 WATTLES/BIODEGRADABLE LOGS AND MULCH/COMPOST FILTER BERMS
- ESC-05 CURB INLET PROTECTION
- ESC-06 AREA INLET PROTECTION
- ESC-07 ROCK DITCH CHECKS
- ESC-14 OUTLET PROTECTION (REFERENCE DETAIL 406 ON SHEET C695)

Lee's Summit  
High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 W. Tudor Road  
Lee's Summit, MO 64086

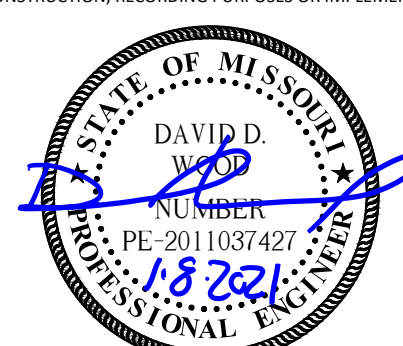
architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.gould-evans.com

structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
Kaw Valley Engineering  
14700 West 114th Terrace  
Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.6700

UNLESS A PROFESSIONAL SEAL WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION.



Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

REVISIONS

Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

DEMOLITION AND  
EROSION CONTROL PLAN  
- PHASE I NORTH

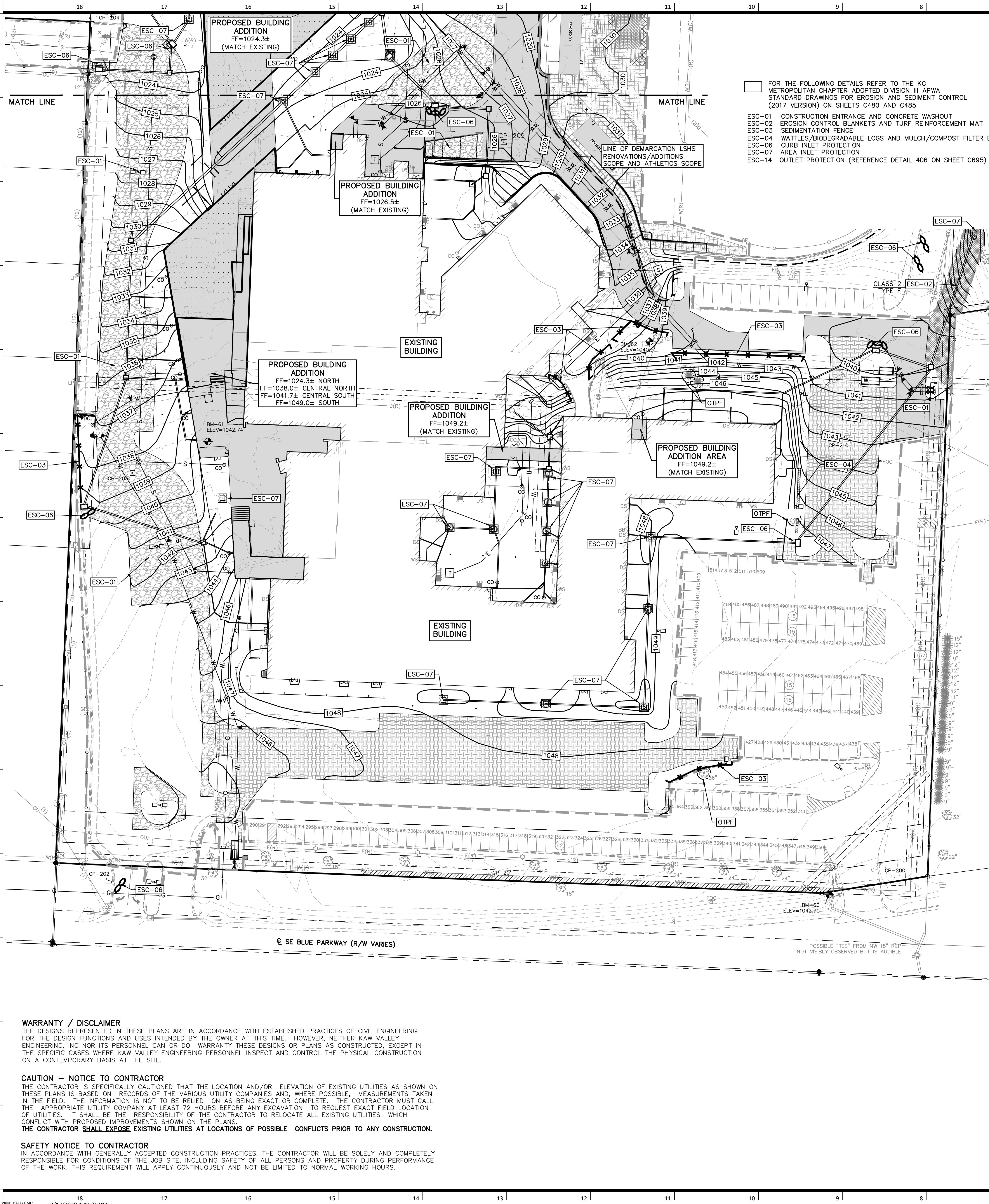
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PROJ. NO. C20-0496 DSK: DWN DAVID D. WOOD  
CFN: 0496CPC1.DWG DWN: NJN ENGINEER  
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KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER  
ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF  
AUTHORITY # 000842. EXPIRES 12/31/21





**NOTE:**  
THIS EROSION CONTROL PLAN HAS BEEN PLACED IN THE CITY'S FILE FOR THIS PROJECT. THE PLAN APPEARS TO FULFILL THE MISSOURI DEPARTMENT OF NATURAL RESOURCES TECHNICAL CRITERIA AND THE CRITERIA FOR EROSION CONTROL AND REQUIREMENTS OF THE CITY. I UNDERSTAND THAT ADDITIONAL EROSION CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN EROSION PROBLEMS ARISE OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

**GENERAL NOTES:**  
1. REFER TO SHEET C490 AND LANDSCAPE PLAN FOR TEMPORARY AND PERMANENT SEEDING/STABILIZATION REQUIREMENTS.  
2. REFER TO APWA STANDARD ESC DRAWINGS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.

**CONSTRUCTION NOTES:**  
1. ALL SLOPES THAT ARE 4:1 OR STEEPER MUST BE FULLY OR PERMANENTLY STABILIZED WITHIN TWO WEEKS OF FINAL GRADING.  
2. CONTRACTOR HAS THE OPTION TO CONSTRUCT MULCH BERMS FROM TREE REMOVAL IN LIEU OF SILT FENCE ALONG TREE LINES. SEE DETAIL ESC-04.  
3. STAGE INSTALL OF CONSTRUCTION STAGING AND ACCESS AREA AS CONSTRUCTION PROGRESSES ON SITE. PLAN DEPICTS EXISTING PARKING LOTS TO REMAIN TO THE MAXIMUM EXTENTS PRACTICAL TO MAINTAIN SITE CIRCULATION AND PAVED CONTRACTOR PARKING. COORDINATE WITH CM'S SITE LOGISTIC PLAN FOR LAYDOWN AND TEMPORARY PAVING REQUIREMENTS.  
4. PROVIDE CONSTRUCTION FENCING AS NOTED ON CM'S SITE LOGISTIC PLAN.

**DESCRIPTION OF WORK - PHASE II:**  
• ROUGH GRADE SITE TO ACCOMMODATE NEW CONSTRUCTION.  
• INSTALL ADDITIONAL STABILIZED STAGING AREAS AND CONSTRUCTION/EMERGENCY ACCESS ROADS AS NOTED ON CM'S SITE LOGISTICS PLAN.  
• EXCAVATE AND CONSTRUCT BUILDING PAD IN ACCORDANCE WITH PLANS.  
• CONSTRUCT BUILDING FOUNDATIONS, SLAB AND UNDER SLAB UTILITY LINES.  
• INSTALL PRIVATE UTILITIES: STORM, WATER, SANITARY. STAGE WORK IN A MANNER TO MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC FLOW AROUND CONSTRUCTION SITE.  
• INSTALL EROSION CONTROL MEASURES AROUND STORM SEWERS AND DIVERT RUNOFF TO STORM STRUCTURES.  
• INSTALL INTERMEDIATE SILT FENCES ON SLOPES AS EMBANKMENT OCCURS ACROSS SITE. TEMPORARILY SEED AREAS DOWNSTREAM.  
• CONSTRUCT BUILDING IN ACCORDANCE WITH THE CONSTRUCTION MANAGER'S SCHEDULE.  
• SAWCUT AND REMOVE PAVEMENT, FLATWORK AND CURBING AT PERIMETER TIE-INS. COORDINATE WORK WITH SCHOOL SCHEDULE IN ORDER TO MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC FLOW AROUND CONSTRUCTION SITE.

**NOTE:** IT IS ANTICIPATED THAT WORK WILL BE STAGED AS DIFFERENT RENOVATION AND CONSTRUCTION ACTIVITIES OCCUR. CONTRACTOR SHALL COORDINATE WITH CM'S SITE LOGISTICS PLAN AND CONSTRUCTION SCHEDULE.

LEGEND:					
	CONTROL POINT		UNDERGROUND ELECTRIC PER RECORD		VITRIFIED CLAY PIPE
	BENCHMARK		AIR CONDITIONER		DUCTILE IRON PIPE
	GATE POST		WALL MOUNTED ELECTRICAL OUTLET		HIGH DENSITY POLYETHYLENE
	CHAIN LINK FENCE		UNDERGROUND GAS		WALL MOUNTED LIGHT
	WOOD FENCE		GAS METER		WALL MOUNTED CAMERA
	BOLLARD		GAS VALVE		UNDERGROUND ELECTRIC
	STREET/TRAFFIC SIGN		GAS RISER		OVERHEAD UTILITY LINE (# of UNITS)
	PAINTED DIRECTIONAL ARROW		GAS LINE SIGN		PULL BOX
	TURN LANE DIRECTION		EXISTING GRADE 5' CONTOUR		LIGHT POLE
	HANDICAP SYMBOL		EXISTING GRADE 1' CONTOUR		UTILITY POLE
	PARKING STALL COUNT		WATER LINE		UTILITY POLE W/ LIGHT
	HANDICAP SIGN		WATER METER		GUY ANCHOR
	HANDICAP RAMP		WATER LINE GATE VALVE		WATER LINE PER RECORD
	WHEEL STOP		FIRE HYDRANT		LOWEST MERE HEIGHT
	UNDERGROUND FIBER OPTIC CABLE		SPRINKLER CONTROL BOX		ELECTRIC METER
	UNDERGROUND FIBER OPTIC (FROM RECORDS)		WATER MANHOLE		UNDERGROUND ELECTRIC PEDESTAL
	TELEPHONE PEDESTAL		SPRINKLER VALVE		SPEAKER BOX
	SANITARY SEWER MANHOLE		SIAMESE FIRE CONNECTOR		BREAKER BOX
	STORM SEWER MANHOLE		CANOPY SUPPORT		UNDERGROUND GAS PER RECORD
	AREA INLET		MAIL BOX		SANITARY SEWER LINE PER RECORD
	CURB INLET		CONCRETE JOINT/CUT LINE		STORM SEWER LINE PER RECORD
	SANITARY SEWER CLEAN OUT		BUSH		
	DOWN SPOUT		DECIDUOUS TREE		
	FLOOR DRAIN		CONIFEROUS TREE		
	FLARED END SECTION		TREE LINE		
	SANITARY SEWER LINE		FLAG POLE		
	STORM SEWER LINE		TRASH ENCLOSURE		
	CORRUGATED METAL PIPE		LANDSCAPING AREA		
	REINFORCED CONCRETE PIPE		CONC		

**EROSION & PROPOSED IMPROVEMENTS LEGEND:**

	EXISTING GROUND CONTOUR (1' INTERVALS)
	PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
	OTPF FENCE
	GRAVEL FILTER BAGS AND INLET PROTECTION (ESC-06 & ESC-07)
	CONSTRUCTION ENTRANCE (ESC-01) AND STAGING
	SEDIMENTATION FENCE (ESC-03)
	WATTLE/BIODEGRADABLE LOG (ESC-04)
	TURF REINFORCEMENT MAT (ESC-02)
	ROCK DITCH CHECK (ESC-10) OR OUTLET PROTECTION (ESC-14)
	CONCRETE WASHOUT (ESC-01)
	SUBGRADE
	LIMITS OF DISTURBANCE
	TEMPORARY ASPHALT/ASPHALT BASE COURSE
	PAVING OR CONCRETE PAVING. COORDINATE WITH CONSTRUCTION MANAGER.

**WARRANTY / DISCLAIMER**

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**CAUTION - NOTICE TO CONTRACTOR**

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**SAFETY NOTICE TO CONTRACTOR**

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Lee's Summit  
High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.goulddevans.com

structural engineer:  
Bob O. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
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14700 West 114th Terrace  
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1801 Main St  
Kansas City, MO 64108  
816.663.6700

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Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

**REVISIONS**

Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

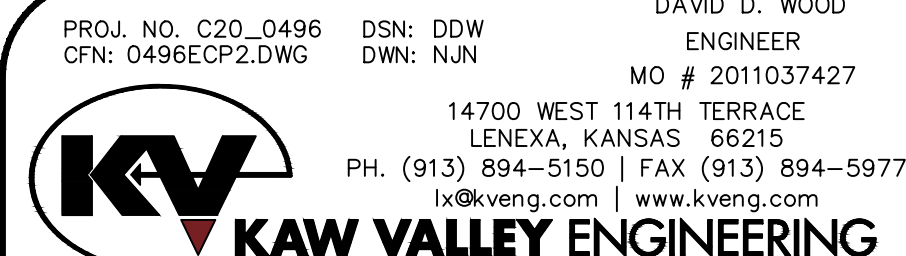
PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

EROSION CONTROL PLAN  
- PHASE II SOUTH

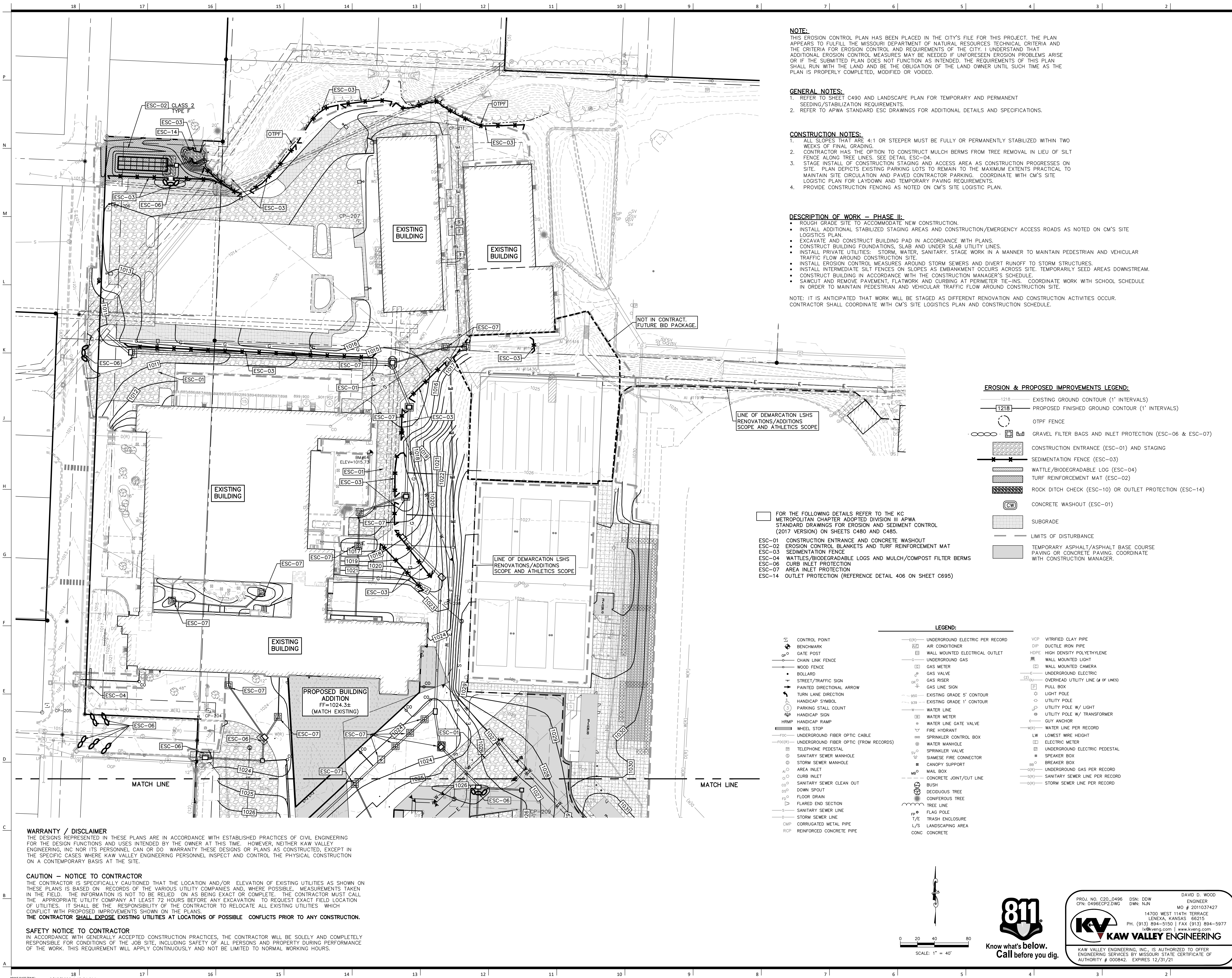
C420

Issued for Construction



KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/21





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**THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.**

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IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

**NOTE:**  
THIS EROSION CONTROL PLAN HAS BEEN PLACED IN THE CITY'S FILE FOR THIS PROJECT. THE PLAN APPEARS TO FULFILL THE MISSOURI DEPARTMENT OF NATURAL RESOURCES TECHNICAL CRITERIA AND THE CRITERIA FOR EROSION CONTROL AND REQUIREMENTS OF THE CITY. I UNDERSTAND THAT ADDITIONAL EROSION CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN EROSION PROBLEMS ARISE OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

**GENERAL NOTES:**  
1. REFER TO SHEET C490 AND LANDSCAPE PLAN FOR TEMPORARY AND PERMANENT SEEDING/STABILIZATION REQUIREMENTS.  
2. REFER TO APWA STANDARD ESC DRAWINGS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.

**CONSTRUCTION NOTES:**  
1. ALL SLOPES THAT ARE 4:1 OR STEEPER MUST BE FULLY OR PERMANENTLY STABILIZED WITHIN TWO WEEKS OF FINAL GRADING.  
2. CONTRACTOR HAS THE OPTION TO CONSTRUCT MULCH BERMS FROM TREE REMOVAL IN LIEU OF SILT FENCE ALONG TREE LINES. SEE DETAIL ESC-04.  
3. STAGE INSTALL OF CONSTRUCTION STAGING AND ACCESS AREA AS CONSTRUCTION PROGRESSES ON SITE. PLAN DEPICTS EXISTING PARKING LOTS TO REMAIN TO THE MAXIMUM EXTENTS PRACTICAL TO MAINTAIN SITE CIRCULATION AND PAVED CONTRACTOR PARKING. COORDINATE WITH CM'S SITE LOGISTIC PLAN FOR LAYDOWN AND TEMPORARY PAVING REQUIREMENTS.  
4. PROVIDE CONSTRUCTION FENCING AS NOTED ON CM'S SITE LOGISTIC PLAN.

**DESCRIPTION OF WORK - PHASE II:**  
• ROUGH GRADE SITE TO ACCOMMODATE NEW CONSTRUCTION.  
• INSTALL ADDITIONAL STABILIZED STAGING AREAS AND CONSTRUCTION/EMERGENCY ACCESS ROADS AS NOTED ON CM'S SITE LOGISTICS PLAN.  
• EXCAVATE AND CONSTRUCT BUILDING PAD IN ACCORDANCE WITH PLANS.  
• CONSTRUCT BUILDING FOUNDATIONS, SLAB AND UNDER SLAB UTILITY LINES.  
• INSTALL PRIVATE UTILITIES: STORM, WATER, SANITARY. STAGE WORK IN A MANNER TO MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC FLOW AROUND CONSTRUCTION SITE.  
• INSTALL EROSION CONTROL MEASURES AROUND STORM SEWERS AND DIVERT RUNOFF TO STORM STRUCTURES.  
• INSTALL INTERMEDIATE SILT FENCES ON SLOPES AS EMBANKMENT OCCURS ACROSS SITE. TEMPORARILY SEED AREAS DOWNSTREAM.  
• CONSTRUCT BUILDING IN ACCORDANCE WITH THE CONSTRUCTION MANAGER'S SCHEDULE.  
• SAWCUT AND REMOVE PAVEMENT, FLATWORK AND CURBING AT PERIMETER TIE-INS. COORDINATE WORK WITH SCHOOL SCHEDULE IN ORDER TO MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC FLOW AROUND CONSTRUCTION SITE.

**NOTE:** IT IS ANTICIPATED THAT WORK WILL BE STAGED AS DIFFERENT RENOVATION AND CONSTRUCTION ACTIVITIES OCCUR. CONTRACTOR SHALL COORDINATE WITH CM'S SITE LOGISTICS PLAN AND CONSTRUCTION SCHEDULE.

- EROSION & PROPOSED IMPROVEMENTS LEGEND:**
- 1218 EXISTING GROUND CONTOUR (1' INTERVALS)
  - 1218 PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
  - OTPF FENCE
  - GRAVEL FILTER BAGS AND INLET PROTECTION (ESC-06 & ESC-07)
  - CONSTRUCTION ENTRANCE (ESC-01) AND STAGING
  - SEDIMENTATION FENCE (ESC-03)
  - WATTLE/BIODEGRADABLE LOG (ESC-04)
  - TURF REINFORCEMENT MAT (ESC-02)
  - ROCK DITCH CHECK (ESC-10) OR OUTLET PROTECTION (ESC-14)
  - CONCRETE WASHOUT (ESC-01)
  - SUBGRADE
  - LIMITS OF DISTURBANCE
  - TEMPORARY ASPHALT/ASPHALT BASE COURSE PAVING OR CONCRETE PAVING. COORDINATE WITH CONSTRUCTION MANAGER.

FOR THE FOLLOWING DETAILS REFER TO THE KC METROPOLITAN CHAPTER ADOPTED DIVISION III APWA STANDARD DRAWINGS FOR EROSION AND SEDIMENT CONTROL (2017 VERSION) ON SHEETS C480 AND C485.

ESC-01 CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT  
ESC-02 EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MAT  
ESC-03 SEDIMENTATION FENCE  
ESC-04 WATTLES/BIODEGRADABLE LOGS AND MULCH/COMPOST FILTER BERMS  
ESC-06 CURB INLET PROTECTION  
ESC-07 AREA INLET PROTECTION  
ESC-14 OUTLET PROTECTION (REFERENCE DETAIL 406 ON SHEET C695)

- LEGEND:**
- CONTROL POINT
  - BENCHMARK
  - GATE POST
  - CHAIN LINK FENCE
  - WOOD FENCE
  - BOLLARD
  - STREET/TRAFFIC SIGN
  - PAINTED DIRECTIONAL ARROW
  - TURN LANE DIRECTION
  - HANDICAP SYMBOL
  - PARKING STALL COUNT
  - HANDICAP SIGN
  - HANDICAP RAMP
  - WHEEL STOP
  - UNDERGROUND FIBER OPTIC CABLE
  - UNDERGROUND FIBER OPTIC (FROM RECORDS)
  - TELEPHONE PEDESTAL
  - SANITARY SEWER MANHOLE
  - STORM SEWER MANHOLE
  - AREA INLET
  - CURB INLET
  - SANITARY SEWER CLEAN OUT
  - DOWN SPOUT
  - FLOOR DRAIN
  - FLARED END SECTION
  - SANITARY SEWER LINE
  - STORM SEWER LINE
  - CMP CORRUGATED METAL PIPE
  - RCP REINFORCED CONCRETE PIPE
  - UNDERGROUND ELECTRIC PER RECORD
  - AIR CONDITIONER
  - WALL MOUNTED ELECTRICAL OUTLET
  - UNDERGROUND GAS
  - GAS METER
  - GAS VALVE
  - GAS RISER
  - GAS LINE SIGN
  - EXISTING GRADE 5' CONTOUR
  - EXISTING GRADE 1' CONTOUR
  - WATER LINE
  - WATER METER
  - WATER LINE GATE VALVE
  - FIRE HYDRANT
  - SPRINKLER CONTROL BOX
  - WATER MANHOLE
  - SPRINKLER VALVE
  - SIAMSE FIRE CONNECTOR
  - CANOPY SUPPORT
  - MAIL BOX
  - CONCRETE JOINT/CUT LINE
  - BUSH
  - DECIDUOUS TREE
  - CONIFEROUS TREE
  - TREE LINE
  - FLAG POLE
  - TRASH ENCLOSURE
  - LANDSCAPING AREA
  - CONC CONCRETE
  - VCP VITRIFIED CLAY PIPE
  - DIP DUCTILE IRON PIPE
  - HDPPE HIGH DENSITY POLYETHYLENE
  - WALL MOUNTED LIGHT
  - WALL MOUNTED CAMERA
  - UNDERGROUND ELECTRIC
  - OVERHEAD UTILITY LINE (# OF LINES)
  - PULL BOX
  - LIGHT POLE
  - UTILITY POLE
  - UTILITY POLE W/ LIGHT
  - UTILITY POLE W/ TRANSFORMER
  - GUY ANCHOR
  - WATER LINE PER RECORD
  - LOWEST WIRE HEIGHT
  - ELECTRIC METER
  - UNDERGROUND ELECTRIC PEDESTAL
  - SPEAKER BOX
  - BREAKER BOX
  - UNDERGROUND GAS PER RECORD
  - SANITARY SEWER LINE PER RECORD
  - STORM SEWER LINE PER RECORD

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phoenix • san francisco

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**Lee's Summit High School**

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Lee's Summit, MO 64063

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Lee's Summit R-7 School District  
301 W. Tudor Road  
Lee's Summit, MO 64086

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**DAVID WOOD**  
Professional Engineer  
PE-2011037427  
12/29/2020

Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood  
Engineer License No. PE-2011037427

REVISIONS		
Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

**RELEASE FOR CONSTRUCTION**  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

**EROSION CONTROL PLAN - PHASE II NORTH**

**C425**

Issued for Construction

PROJ. NO. C20\_0496 DSN: DDW  
CFN: 0496CP2.DWG DWN: NJN  
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LENEXA, KANSAS 66115  
PH. (913) 894-5150 | FAX (913) 894-5977  
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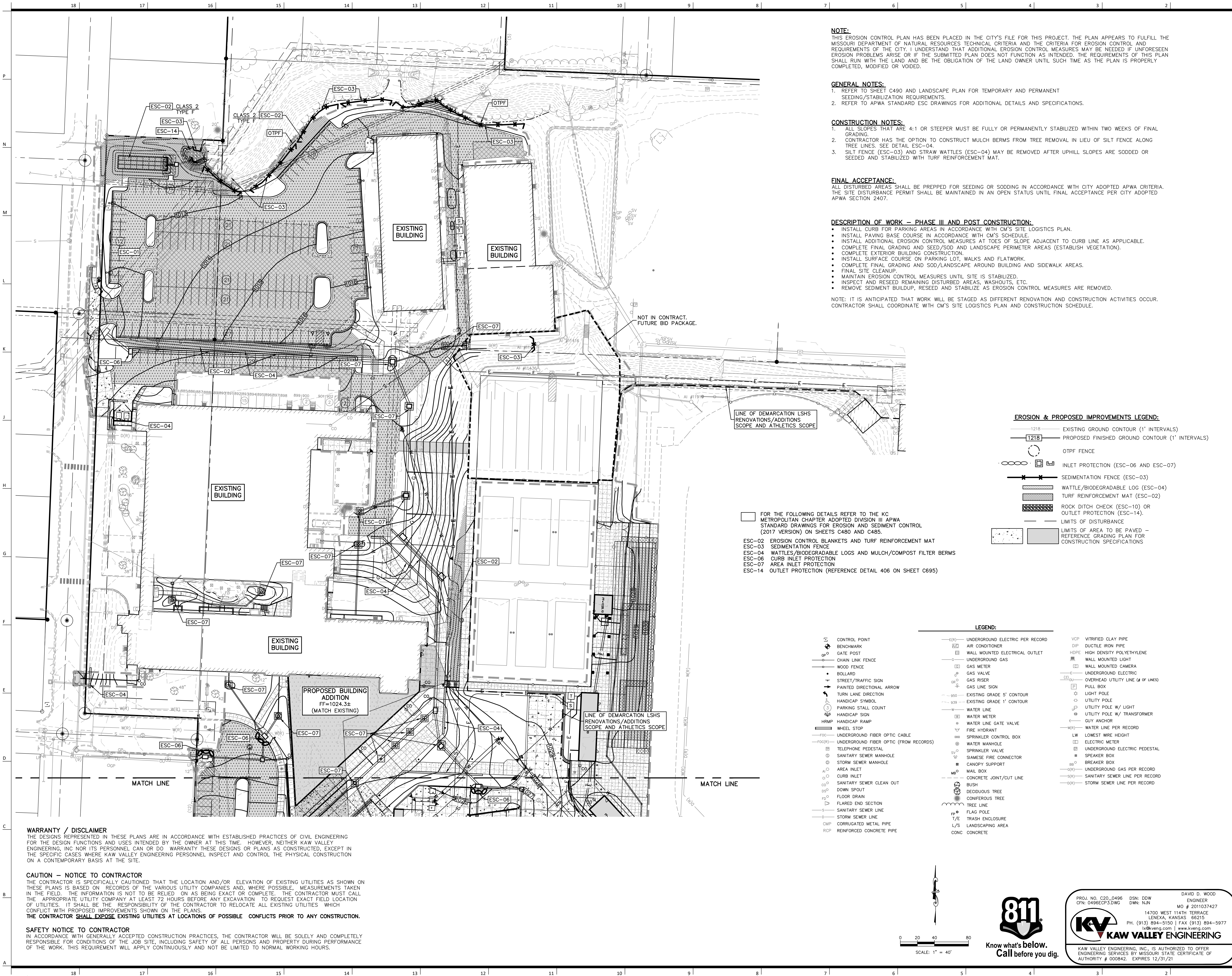
**KV KAW VALLEY ENGINEERING**

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/21



Issued for Construction





**NOTE:**  
THIS EROSION CONTROL PLAN HAS BEEN PLACED IN THE CITY'S FILE FOR THIS PROJECT. THE PLAN APPEARS TO FULFILL THE MISSOURI DEPARTMENT OF NATURAL RESOURCES TECHNICAL CRITERIA AND THE CRITERIA FOR EROSION CONTROL AND REQUIREMENTS OF THE CITY. I UNDERSTAND THAT ADDITIONAL EROSION CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN EROSION PROBLEMS ARISE OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

**GENERAL NOTES:**  
1. REFER TO SHEET C490 AND LANDSCAPE PLAN FOR TEMPORARY AND PERMANENT SEEDING/STABILIZATION REQUIREMENTS.  
2. REFER TO APWA STANDARD ESC DRAWINGS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.

**CONSTRUCTION NOTES:**  
1. ALL SLOPES THAT ARE 4:1 OR STEEPER MUST BE FULLY OR PERMANENTLY STABILIZED WITHIN TWO WEEKS OF FINAL GRADING.  
2. CONTRACTOR HAS THE OPTION TO CONSTRUCT MULCH BERMS FROM TREE REMOVAL IN LIEU OF SILT FENCE ALONG TREE LINES. SEE DETAIL ESC-04.  
3. SILT FENCE (ESC-03) AND STRAW WATTLES (ESC-04) MAY BE REMOVED AFTER UPHILL SLOPES ARE SODDED OR SEEDED AND STABILIZED WITH TURF REINFORCEMENT MAT.

**FINAL ACCEPTANCE:**  
ALL DISTURBED AREAS SHALL BE PREPPED FOR SEEDING OR SODDING IN ACCORDANCE WITH CITY ADOPTED APWA CRITERIA. THE SITE DISTURBANCE PERMIT SHALL BE MAINTAINED IN AN OPEN STATUS UNTIL FINAL ACCEPTANCE PER CITY ADOPTED APWA SECTION 2407.

**DESCRIPTION OF WORK - PHASE III AND POST CONSTRUCTION:**  
• INSTALL CURB FOR PARKING AREAS IN ACCORDANCE WITH CM'S SITE LOGISTICS PLAN.  
• INSTALL PAVING BASE COURSE IN ACCORDANCE WITH CM'S SCHEDULE.  
• INSTALL ADDITIONAL EROSION CONTROL MEASURES AT TOES OF SLOPE ADJACENT TO CURB LINE AS APPLICABLE.  
• COMPLETE FINAL GRADING AND SEED/SOD AND LANDSCAPE PERIMETER AREAS (ESTABLISH VEGETATION).  
• COMPLETE EXTERIOR BUILDING CONSTRUCTION.  
• INSTALL SURFACE COURSE ON PARKING LOT, WALKS AND FLATWORK.  
• COMPLETE FINAL GRADING AND SOD/LANDSCAPE AROUND BUILDING AND SIDEWALK AREAS.  
• FINAL SITE CLEANUP.  
• MAINTAIN EROSION CONTROL MEASURES UNTIL SITE IS STABILIZED.  
• INSPECT AND RESEED REMAINING DISTURBED AREAS, WASHOUTS, ETC.  
• REMOVE SEDIMENT BUILDUP, RESEED AND STABILIZE AS EROSION CONTROL MEASURES ARE REMOVED.

**NOTE:** IT IS ANTICIPATED THAT WORK WILL BE STAGED AS DIFFERENT RENOVATION AND CONSTRUCTION ACTIVITIES OCCUR. CONTRACTOR SHALL COORDINATE WITH CM'S SITE LOGISTICS PLAN AND CONSTRUCTION SCHEDULE.

**EROSION & PROPOSED IMPROVEMENTS LEGEND:**

- EXISTING GROUND CONTOUR (1' INTERVALS)
- PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
- OTPF FENCE
- INLET PROTECTION (ESC-06 AND ESC-07)
- SEDIMENTATION FENCE (ESC-03)
- WATTLE/BIODEGRADABLE LOG (ESC-04)
- TURF REINFORCEMENT MAT (ESC-02)
- ROCK DITCH CHECK (ESC-10) OR OUTLET PROTECTION (ESC-14)
- LIMITS OF DISTURBANCE
- LIMITS OF AREA TO BE PAVED - REFERENCE GRADING PLAN FOR CONSTRUCTION SPECIFICATIONS

FOR THE FOLLOWING DETAILS REFER TO THE KC METROPOLITAN CHAPTER ADOPTED DIVISION III APWA STANDARD DRAWINGS FOR EROSION AND SEDIMENT CONTROL (2017 VERSION) ON SHEETS C480 AND C485.  
ESC-02 EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MAT  
ESC-03 SEDIMENTATION FENCE  
ESC-04 WATTLES/BIODEGRADABLE LOGS AND MULCH/COMPOST FILTER BERMS  
ESC-06 CURB INLET PROTECTION  
ESC-07 AREA INLET PROTECTION  
ESC-14 OUTLET PROTECTION (REFERENCE DETAIL 406 ON SHEET C695)

**LEGEND:**

- CONTROL POINT
- BENCHMARK
- GATE POST
- CHAIN LINK FENCE
- WOOD FENCE
- BOLLARD
- STREET/TRAFFIC SIGN
- PAINTED DIRECTIONAL ARROW
- TURN LINE DIRECTION
- HANDICAP SYMBOL
- PARKING STALL COUNT
- HANDICAP SIGN
- HANDICAP RAMP
- WHEEL STOP
- UNDERGROUND FIBER OPTIC CABLE
- UNDERGROUND FIBER OPTIC (FROM RECORDS)
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- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- AREA INLET
- CURB INLET
- SANITARY SEWER CLEAN OUT
- DOWN SPOUT
- FLOOR DRAIN
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- SANITARY SEWER LINE
- STORM SEWER LINE
- CORRUGATED METAL PIPE
- REINFORCED CONCRETE PIPE
- UNDERGROUND ELECTRIC PER RECORD
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- GAS METER
- GAS VALVE
- GAS RISER
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- CONCRETE JOINT/OUT LINE
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- DECIDUOUS TREE
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- T/E TRASH ENCLOSURE
- L/S LANDSCAPING AREA
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- SPEAKER BOX
- BREAKER BOX
- UNDERGROUND GAS PER RECORD
- SANITARY SEWER LINE PER RECORD
- STORM SEWER LINE PER RECORD

Lee's Summit  
High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

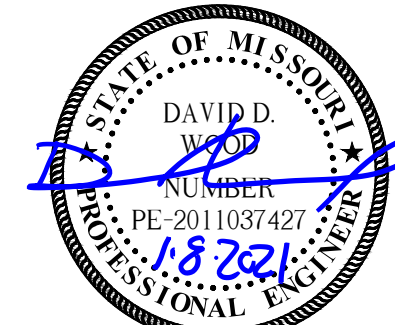
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CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION



Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

**REVISIONS**

Number	DESCRIPTION	DATE
1	ADDENDUM #1 PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	11-19-2020
2	PER CITY COMMENTS WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

EROSION CONTROL PLAN  
- PHASE III NORTH

C435

Issued for Construction

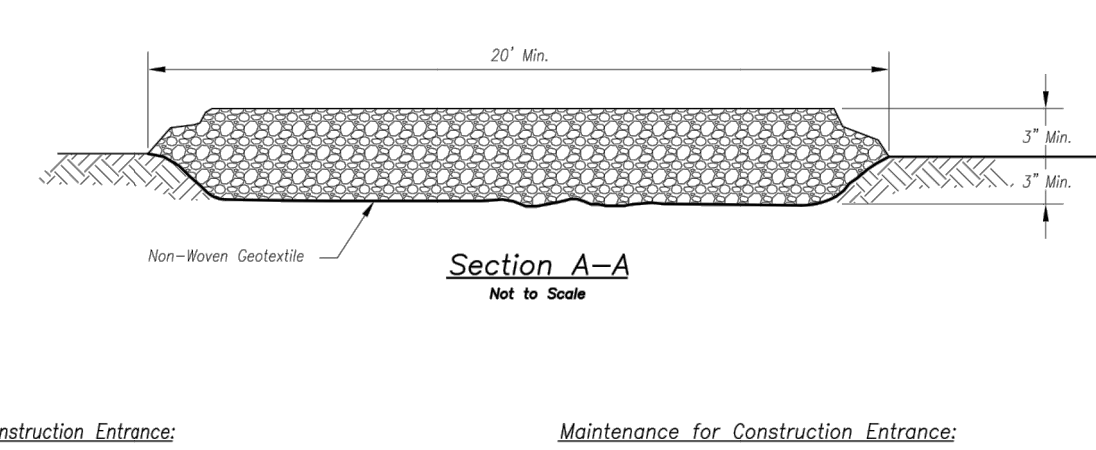
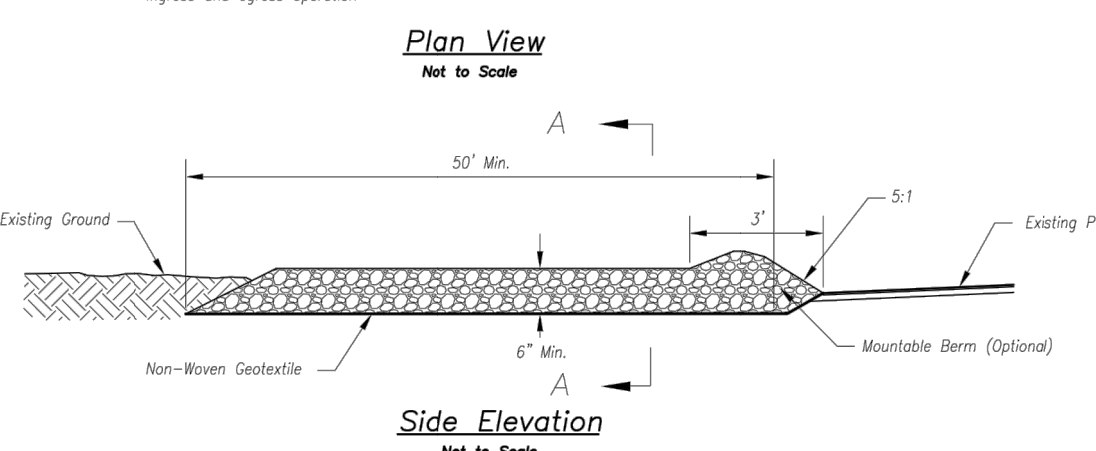
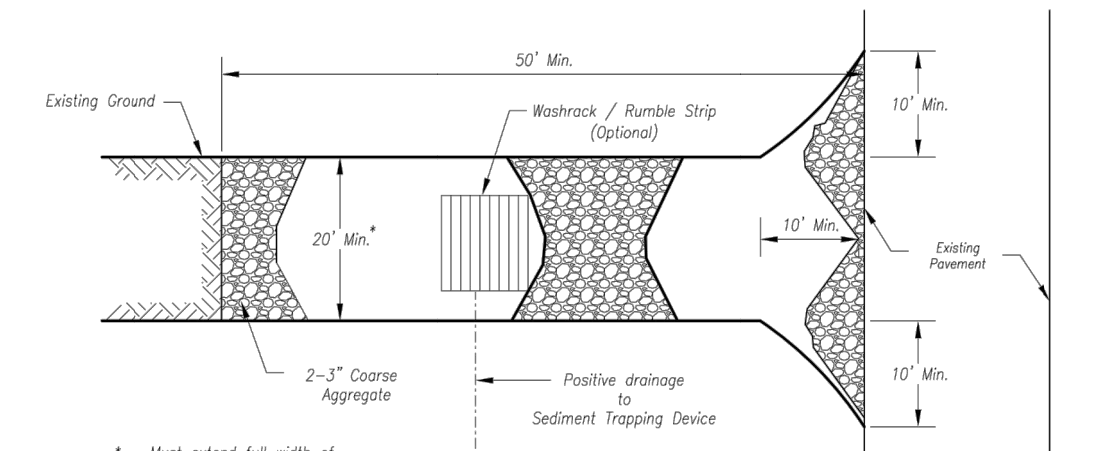


PROJ. NO. C20\_0496 DSN: DDW DAVID D. WOOD  
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**KV KAW VALLEY ENGINEERING**

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER  
ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF  
AUTHORITY # 000842, EXPIRES 12/31/21





#### Notes for Construction Entrance

1. Avoid leaving on steep slopes, at curves or public roads, or downwind of disturbed area.
2. Remove all vegetation and other undesirable 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" high ridge with 20:1V 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 slight for drainage.
6. Direct all surface runoff and drainage from the entrance to a sediment control device.
7. If conditions warrant, place geotextile fabric on the greater foundation to improve stability.

#### Maintenance for Construction Entrance

1. Replace 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 subgrade pit area relative to the amount of concrete to be placed on site. The slope leading up to the subgrade pit shall be 2:1. The washout area shall be a minimum of 10' x 10'.
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 trucks and pump trucks.
5. A one-piece impervious clear may be required along the bottom and sides of the subgrade pit in sandy or gravelly soils.

#### Maintenance for Concrete Washout

1. Concrete washout materials shall be removed once the materials have been washed to approximately 75% full.
2. Concrete washout areas shall be enlarged as necessary to maintain capacity for washed concrete.
3. Concrete washout water, washed phases of concrete and all other debris in the subgrade pit shall be transported from the job site in a water-tight container and disposed of properly.
4. Concrete washout areas shall remain in place until all concrete for the project is placed.
5. When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and heavily erodible areas excavated with the material. 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

ASPHALT PAVING.  
REFER TO C300 SHEETS FOR FINAL  
GRADE ELEVATIONS.  
REFER TO GEOTECH REPORT/PLANS  
FOR PAVING THICKNESS.

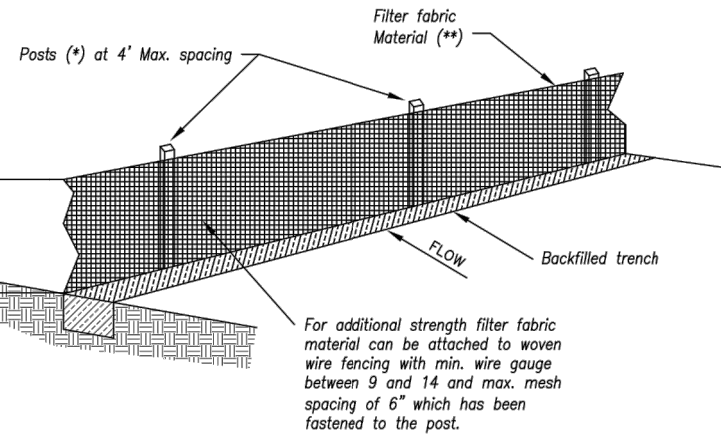
6" MINIMUM, 2" TO 3" COARSE AGGREGATE.  
CONSULT OFS ENGINEERS (GEOTECH ENGINEER)  
ABOUT CAPPING STAGING AND LAY DOWN  
AREA WITH WELL GRADED CRUSHED STONE  
MEETING THE SPECIFICATIONS FOR MODOT TYPE  
5 OR KDOT AB-3 PRIOR TO PAVING IN LIEU  
OF REMOVING.

MOISTURE CONDITIONED AND  
COMPACTED SUBGRADE.  
ON-SITE CLAY SOILS SHALL BE  
STABILIZED WITH PORTLAND CEMENT  
AS RECOMMENDED IN THE PROJECT  
GEOTECHNICAL REPORT

#### CONTRACTOR STAGING AND LAYDOWN ESC-01

#### NOTES

1. CONTRACTOR TO COORDINATE ACTUAL LIMITS WITH CM'S SITE LOGISTICS PLAN. AT MINIMUM A 20'x50' SECTION SHALL BE PROVIDED AT ALL CONSTRUCTION ACCESS POINTS FROM EXISTING PAVING.
2. CONTRACTOR SHALL VERIFY GRADE OF STAGING AND LAYDOWN PAD PRIOR TO PAVING. CONTRACTOR IS RESPONSIBLE TO PLACE ADDITIONAL CRUSHED STONE AS REQUIRED TO ACHIEVE SUBGRADE ELEVATIONS.



(\*) PDS25  
- MIN. LENGTH 4'  
- WOODCORE 1" x 4" x 1"  
- HDG. SOUTHERN PINE 2" x 6" x 2"  
- STEEL 1.33 LB/FT

(\*\*) - Geotextile fabric shall meet the requirements of ASTM D6888

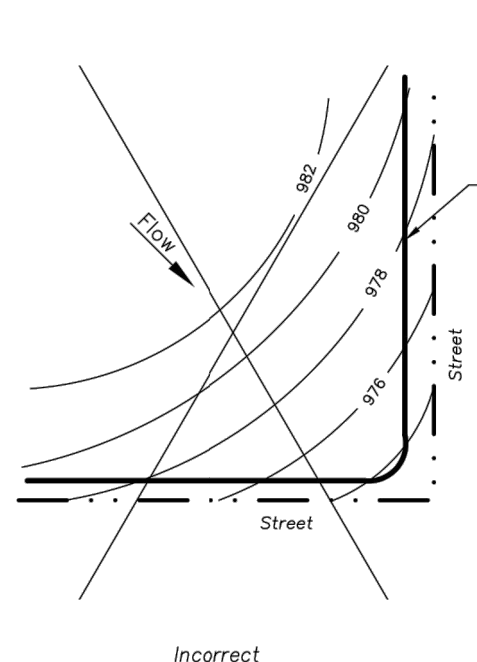
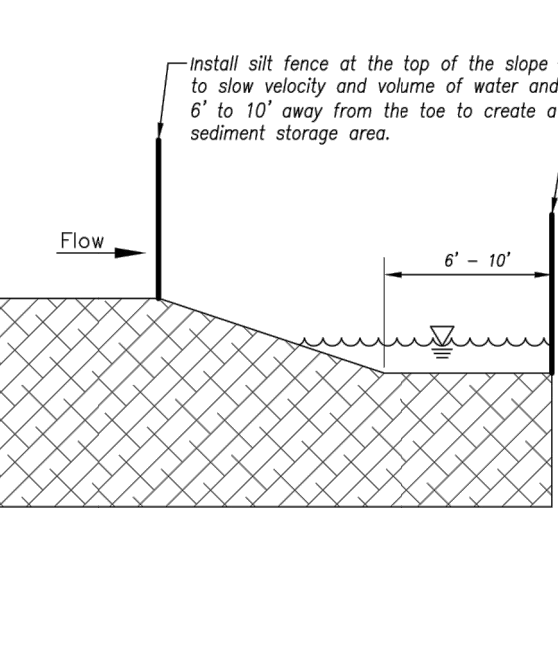
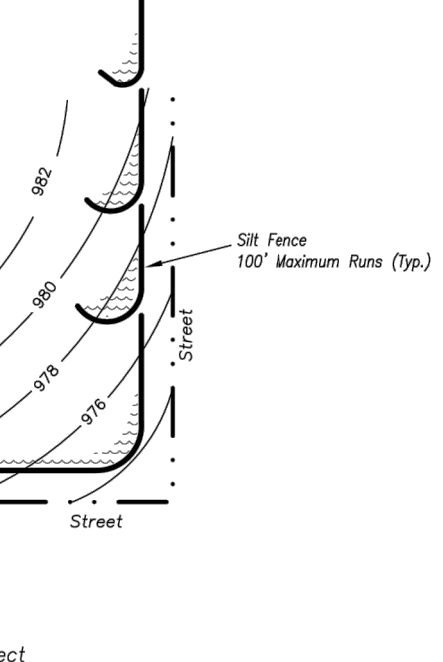


Figure A



#### Maintenance

1. Remove and dispose of sediment deposits when the deposit approaches  $\frac{1}{2}$  the height of silt fence.
2. Repair as necessary to maintain function and structure.

#### AMERICAN PUBLIC WORKS ASSOCIATION

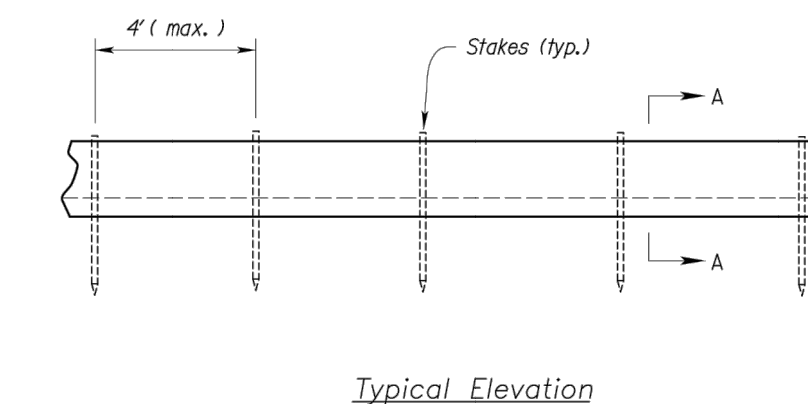
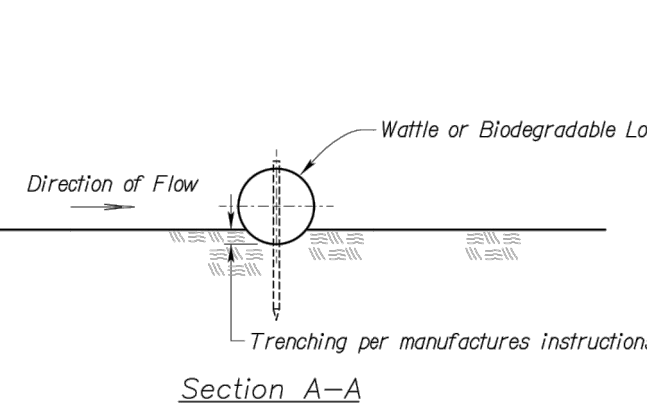


KANSAS CITY  
METRO CHAPTER

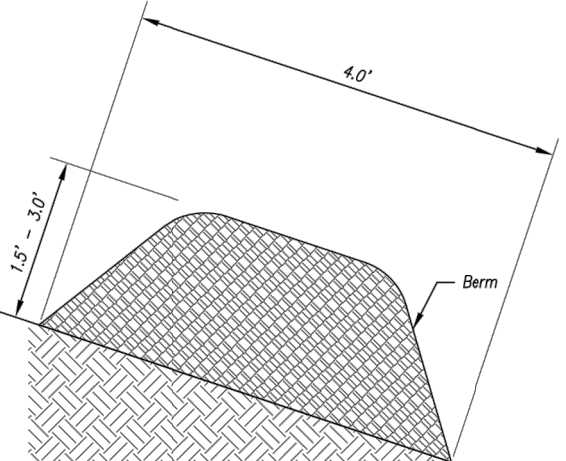
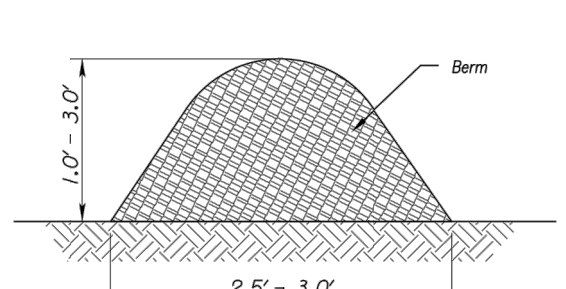
SILT FENCE

STANDARD DRAWING  
NUMBER ESC-03  
ADOPTED  
10/24/2016

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



#### WATTLES AND BIODEGRADABLE LOG



#### MULCH OR COMPOST FILTER BERMS

#### Notes for Wattles and Biodegradable Log Slope Stabilization

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

#### Notes for Mulch and Compost Filter Berm

1. The sediment control berm shall be placed uncompacted in a window of location shown on the plan or as directed by the engineer.
2. Parallel to the base of the slope, or around the perimeter of other affected areas, construct a 1 to 3 foot high by 2.5 to 3 foot wide berm (see Figure 1). For maximum water infiltration ability, use straw, alfalfa, compost or 1.5 to 2 foot high biodegradable berm that is a minimum of 4 feet wide at the base (see Figure 2), in some conditions, as determined by the engineer, a second berm shall be constructed at the top of the slope. Engineer will specify berm requirements.
3. If berm is to be left on permanent or part of the natural landscape, the compost berm may be seeded during application for permanent vegetation.
4. Do not use compost or wood mulch berms in any runoff channels or concentrated flow areas.
5. Mulch berm shall consist of free and shrub debris resulting from clearing and grubbing and shall be ground by the mechanical means such as a chipper, hammermill, flail, grinder or other approved method. Mulch being applied with a maximum width of 2' and a maximum length of 10'.

#### Maintenance for Mulch and Compost Filter Berm

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

#### AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY  
METRO CHAPTER

WATTLES/BIODEGRADABLE LOG  
AND  
MULCH/COMPOST FILTER BERM

STANDARD DRAWING  
NUMBER ESC-04  
ADOPTED  
10/24/2016

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

PROJ. NO. C20-0496 DSN: DWJ DAVID D. WOOD  
CIN: 0496DET.DWG DWN: NJN ENGINEER  
# 2011037427

14700 WEST 114TH TERRACE  
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KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER  
ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF  
AUTHORITY # 000842, EXPIRES 12/31/21

gould evans

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phoenix • san francisco

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## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

architect:  
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structural engineer:  
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civil engineer:  
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mechanical/electrical engineer:  
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Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

#### REVISIONS

Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

#### EROSION CONTROL DETAILS

C480

Issued for Construction



## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

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## EROSION CONTROL NOTES:

- PROPERTY LINE IS LIMIT OF DISTURBANCE EXCEPT AS SHOWN.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITH VEGETATION WITHIN 14 DAYS OF COMPLETION OF WORK. AS WORK PROGRESSES AROUND SITE, SURROUNDING AREAS SHALL BE TEMPORARILY SEEDED.
- EROSION CONTROLS SHALL BE INSTALLED AND MAINTAINED BY CONTRACTOR.
- TEMPORARY SEDIMENT FENCE OR WATTLES TO REMAIN UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
- MUD AND DEBRIS SHALL BE CLEANED UP AT THE CONCLUSION OF EACH WORKING DAY, OR AFTER EACH RAINFALL IF SILT IS PRESENT.
- INSPECTION, MAINTENANCE AND REPAIR OF EROSION CONTROL DEVICES SHALL BE ONGOING THROUGHOUT THE LIFE OF CONSTRUCTION TO KEEP THE DEVICES IN OPERABLE CONDITION AT ALL TIMES. ADDITIONAL MEASURES SHALL BE INSTALLED AS REQUIRED BY ACTUAL FIELD CONDITIONS AND/OR OWNER'S INSPECTION AGENCY.



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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI  
01/14/2021

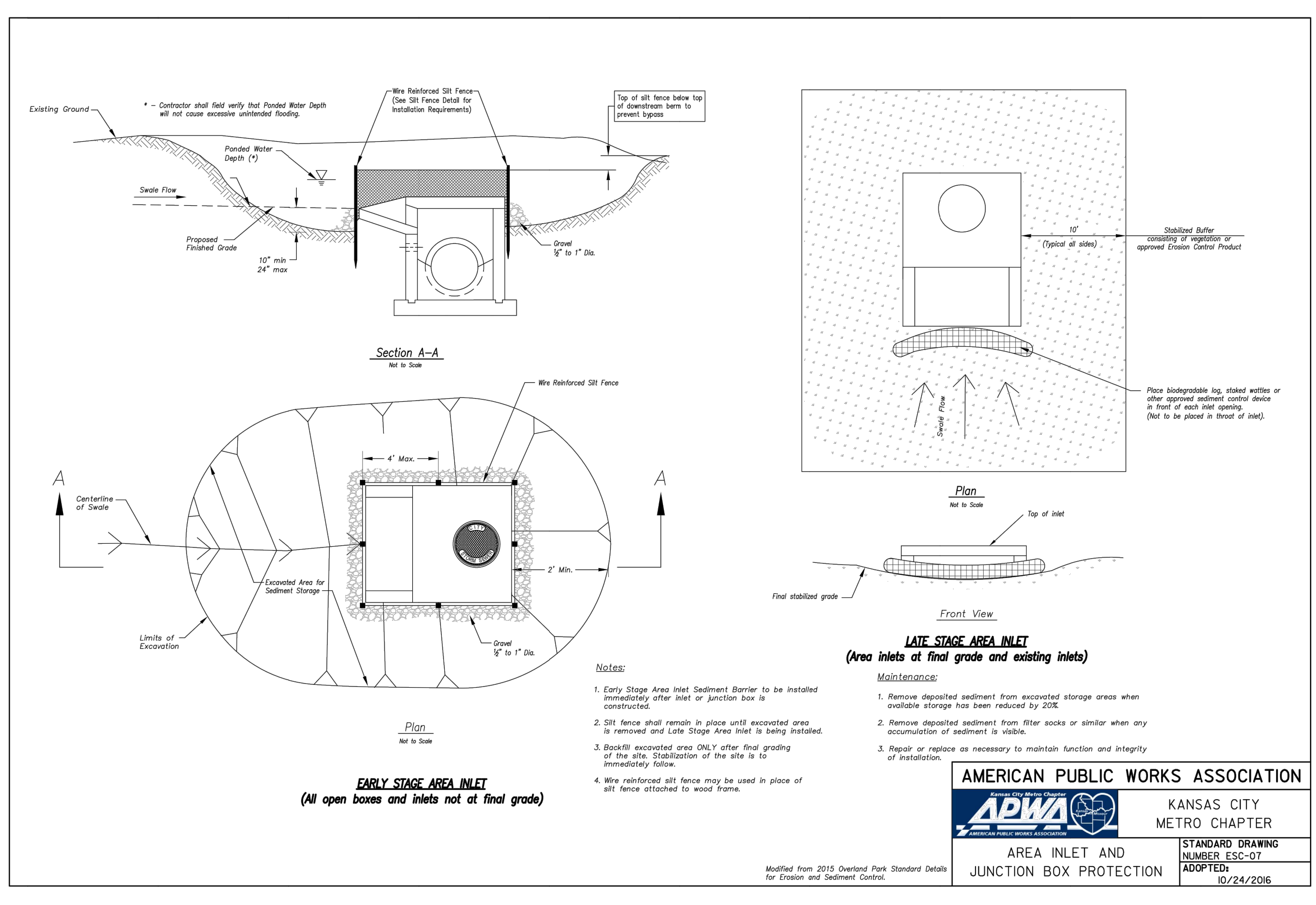
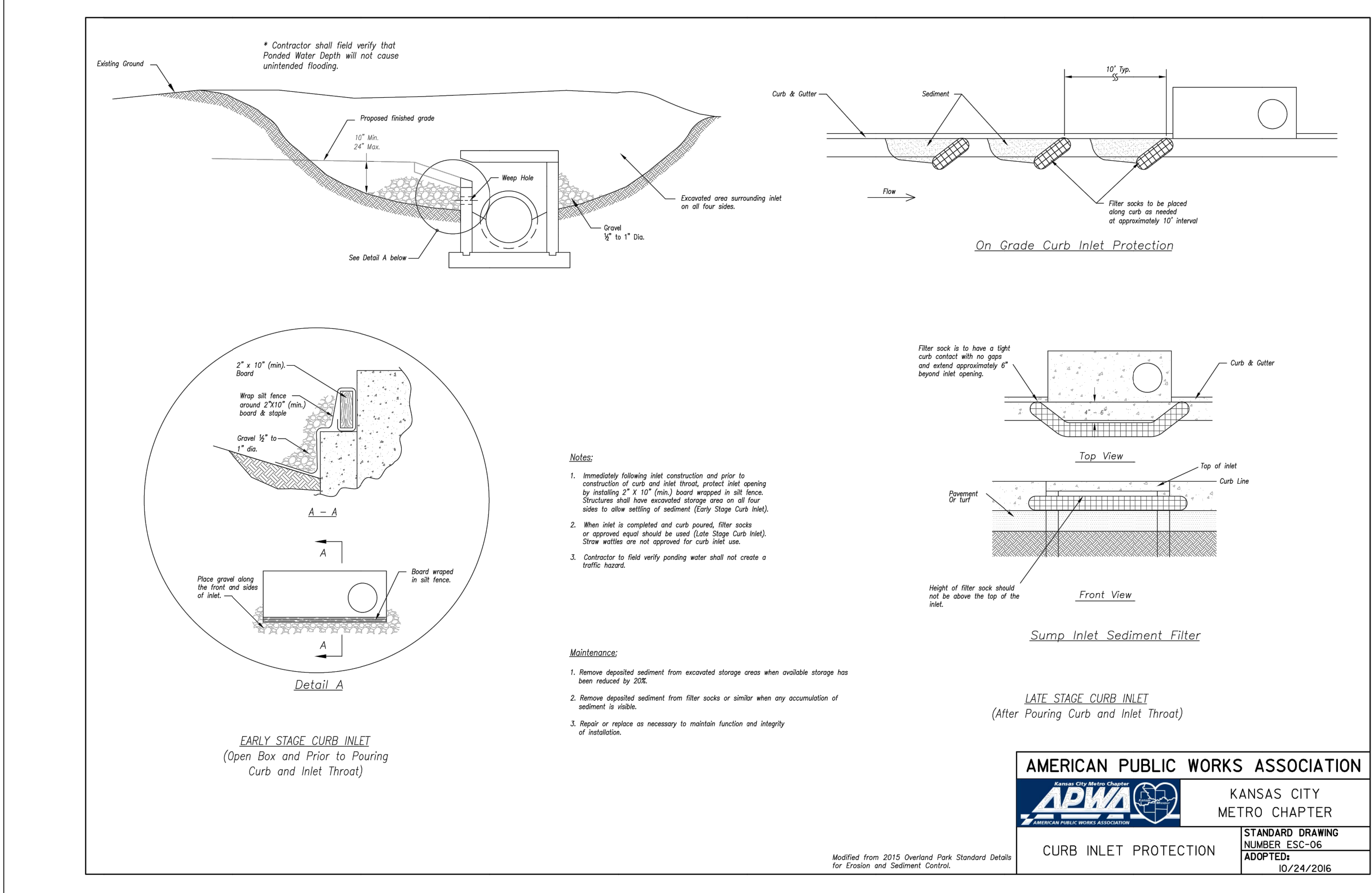
PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

## EROSION CONTROL DETAILS

C490

Issued for Construction



**PERMANENT SEEDING:**  
DISTURBED AREAS ARE TO BE SEEDED (AS NOTED ON LANDSCAPE PLANS) UNLESS NOTED OTHERWISE ON THE LANDSCAPE PLANS AND SPECIFICATIONS, UNLESS DEFINED IN PROJECT MANUAL APPLICATION OF SEED SHALL BE IN ACCORDANCE WITH THE KANSAS CITY METROPOLITAN CHAPTER OF APWA TECHNICAL SPECIFICATIONS SECTION 2401

**PREPARATION OF THE SEED BED**  
UNLESS NOTED OTHERWISE ON THE LANDSCAPE PLANS AND SPECIFICATIONS ALL DISTURBED AREAS SHALL BE PREPPED FOR SEEDING AND SODDING IN ACCORDANCE WITH KANSAS CITY METROPOLITAN CHAPTER OF APWA SPECIFICATIONS SECTION 2406. THE AREA TO BE SEEDED SHALL BE THOROUGHLY TILLED TO A DEPTH OF AT LEAST THREE (3) INCHES BY DISCING, HARROWING OR OTHER APPROVED METHODS UNTIL THE SOIL IS WELL PULVERIZED. AFTER COMPLETION OF THE TILLING OPERATION, THE SURFACE SHALL BE CLEARED OF ALL STONES, STUMPS, OR OTHER OBJECTS LARGER THAN 1-1/2 INCHES IN DIAMETER, AND OF ROOTS, WIRE, GRADE STAKES, AND OTHER OBJECTS THAT MIGHT HINDER MAINTENANCE OPERATIONS.

**PLACEMENT OF SEED**  
SEEDING MAY BE ACCOMPLISHED BY HYDRAULIC TYPE SEEDERS OR BROADCAST-TYPE SEEDERS. ALL SEED SOWN BY BROADCAST-TYPE SEEDERS SHALL BE "RAKED IN" OR OTHERWISE COVERED WITH SOIL TO A DEPTH OF AT LEAST ONE-QUARTER (1/4) INCH AND ROLLED TO OBTAIN A FIRM SEED BED. WATER SHALL BE APPLIED WHEN NECESSARY. SEEDED AREAS SHALL BE COMPACTED AND MULCHED.

SEEDED AREAS IN DETENTION BASIN LIMITS, SWALES, HILLSIDES WITH SLOPES IN EXCESS OF 4:1 AND OTHER AREAS ILLUSTRATED SHALL BE PROTECTED WITH A CLASS 1, TYPE A EROSION CONTROL BLANKET UNLESS NOTED OTHERWISE. BLANKET SHALL BE SECURED TO SURFACE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. SEE DETAIL ESC-02 AS ILLUSTRATED IN THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SPECIFICATION SECTION 2150, EROSION AND SEDIMENT CONTROL ADOPTED, DIVISION III APWA STANDARD DRAWINGS FOR EROSION AND SEDIMENT CONTROL.

CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE, PROTECTION AND REPAIR OF TEMPORARY AND PERMANENT SEED AREAS. COORDINATE PLACEMENT OF INTERMEDIATE EROSION CONTROL MEASURES AS REQUIRED TO REDUCE CONCENTRATED FLOWS FROM RUNOFF.

**FINAL ACCEPTANCE**  
THE MDNR SITE DISTURBANCE PERMIT SHALL BE MAINTAINED IN AN "OPEN" STATUS UNTIL FINAL ACCEPTANCE IS PROVIDED BY THE OWNER IN ACCORDANCE WITH APWA SPECIFICATION SECTION 2400.6.

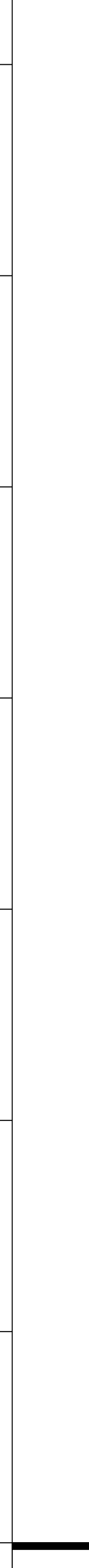
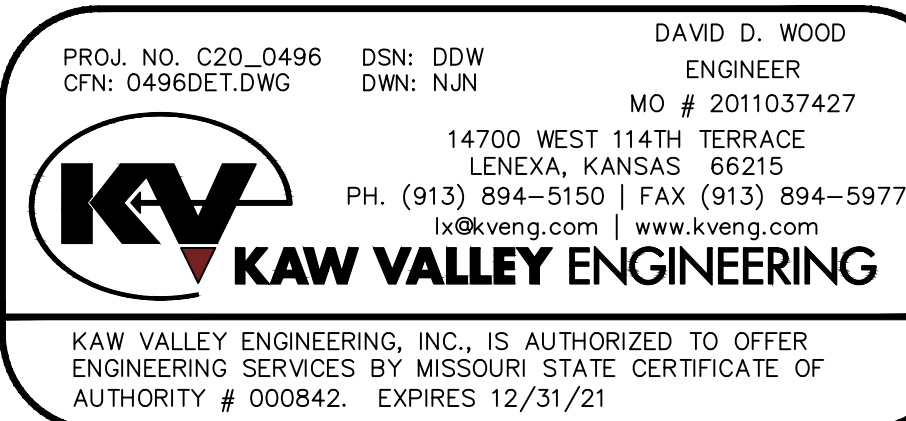
**SEDIMENTATION AND EROSION CONTROL MEASURES:**  
TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL INCLUDE AS A MINIMUM, BUT NOT BE LIMITED TO:

- TEMPORARY SEDIMENT FENCE- SILT FENCE WILL BE INSTALLED AS SHOWN ON THE DRAWING. THIS WILL SLOW RUNOFF VELOCITIES AND MINIMIZE EROSION OF THE SLOPES SHOWN ON THE PLANS.
- TEMPORARY SEEDING AND MULCHING- SEEDING AND MULCHING WILL TAKE PLACE ON ALL DISTURBED AREAS NOT TO BE SURFACED DURING CONSTRUCTION. HYDROSEEDING WILL BE REQUIRED WHERE SEEDING CANNOT EASILY BE ESTABLISHED. CONTRACTOR IS EXPECTED TO REDRESS AND RESEED AREAS AS NEEDED THROUGHOUT CONSTRUCTION. PHASE WORK ACCORDINGLY.
- TEMPORARY INLET PROTECTION.

PERMANENT SEDIMENTATION AND EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO:

- STABILIZATION OF PIPE INLETS AND OUTLETS WHERE INDICATED.
- DETENTION BASINS WHERE INDICATED.
- SEEDING OR SODDING OF ALL DISTURBED AREAS.
- EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MAT SHALL BE INSTALLED ON ALL SEEDED SLOPES IN EXCESS OF 4:1 AND IN AREAS NOTED ON PLANS. DOWNSTREAM EROSION CONTROL MEASURES MAY BE REMOVED AFTER UPHILL SLOPES ARE SODDED OR SEEDED AND STABILIZED WITH TURF REINFORCEMENT MAT. SEE DETAIL ESC-02.

**TEMPORARY SEEDING**  
APPLICATION OF SEED SHALL BE IN ACCORDANCE WITH KC METRO AMERICAN PUBLIC WORKS SPECIFICATIONS ADOPTED APWA TECHNICAL SPECIFICATIONS SECTION 2153.5 A THRU C.





## Lee's Summit High School

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### LEGEND:

- CONTROL POINT
- BENCHMARK
- GATE POST
- CHAIN LINK FENCE
- WOOD FENCE
- BOLLARD
- STREET/TRAFFIC SIGN
- PAINTED DIRECTIONAL ARROW
- TURN LANE DIRECTION
- HANDICAP SYMBOL
- PARKING STALL COUNT
- HANDICAP SIGN
- HRMP
- WHEEL STOP
- UNDERGROUND FIBER OPTIC CABLE
- UNDERGROUND FIBER OPTIC (FROM RECORDS)
- TELEPHONE PEDESTAL
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- AREA INLET
- CURB INLET
- SANITARY SEWER CLEAN OUT
- DOWN SPOUT
- FLOOR DRAIN
- FLARED END SECTION
- SANITARY SEWER LINE
- STORM SEWER LINE
- CMP
- CORRUGATED METAL PIPE
- REINFORCED CONCRETE PIPE
- VCP
- WTRIFIED CLAY PIPE
- DIP
- DUCTILE IRON PIPE
- HDPE
- HIGH DENSITY POLYETHYLENE
- WALL MOUNTED LIGHT
- WALL MOUNTED CAMERA
- UNDERGROUND ELECTRIC
- OVERHEAD UTILITY LINE (# OF LINES)
- PULL BOX
- LIGHT POLE
- UTILITY POLE
- UTILITY POLE W/ LIGHT
- UTILITY POLE W/ TRANSFORMER
- GUY ANCHOR
- WATER LINE PER RECORD
- UNDERGROUND ELECTRIC PER RECORD
- AIR CONDITIONER
- WALL MOUNTED ELECTRICAL OUTLET
- UNDERGROUND GAS
- GAS METER
- GAS VALVE
- GAS RISER
- GAS LINE SIGN
- ENCROACHMENT IDENTIFIER
- EXISTING SPOT ELEVATION
- EXISTING GRADE 5' CONTOUR
- EXISTING GRADE 1' CONTOUR
- DOOR ELEVATION
- AT THRESHOLD
- FF
- FINISH FLOOR ELEVATION
- BHE
- BUILDING HEIGHT/ELEVATION
- B/B
- BACK TO BACK OF CURB MEASUREMENT
- E/E
- EDGE TO EDGE OF ASPHALT
- WATER LINE
- WATER METER
- WATER LINE GATE VALVE
- FIRE HYDRANT
- SPRINKLER CONTROL BOX
- WATER MANHOLE
- SPRINKLER VALVE
- SIAMSE FIRE CONNECTOR
- CANOPY SUPPORT
- MAIL BOX
- CONCRETE JOINT/CUT LINE
- BUSH
- DECIDUOUS TREE
- CONIFEROUS TREE
- TREE LINE
- FLAG POLE
- TRASH ENCLOSURE
- LVS
- LANDSCAPING AREA
- CONC
- CONCRETE
- LW
- LOWEST WIRE HEIGHT
- ELECTRIC METER
- UNDERGROUND ELECTRIC PEDESTAL
- SPEAKER BOX
- BREAKER BOX
- UNDERGROUND GAS PER RECORD
- SANITARY SEWER LINE PER RECORD
- STORM SEWER LINE PER RECORD
- TURN LANE DIRECTION
- ASPHALT MILL AND/OR OVERLAY
- ASPHALT PAVEMENT (040)
- HEAVY DUTY ASPHALT PAVEMENT (041)
- CONCRETE PAVEMENT (042)
- CONCRETE CURB AND GUTTER
- CONCRETE CURB AND GUTTER WITH REVERSE FLOW

### UTILITY NOTES:

- EXCAVATION, TRENCHING AND BACKFILL SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 2100 GRADING AND SITE PREPARATION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SPECIFICATIONS AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT.
- ALL BACKFILL SHALL BE TAMPED. BACKFILL WITHIN THE RIGHT-OF-WAY AND UNDER PARKING AREAS AND SLABS SHALL BE 95% COMPACTION OF OPTIMUM MOISTURE.
- CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO THE CITY OF LEE'S SUMMIT UTILITIES DEPARTMENT UNLESS DULY AUTHORIZED TO DO SO. ANY ADVERSE CONSEQUENCE OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR. **KAW VALLEY ENGINEERING AND OWNER ARE TO BE HELD HARMLESS.** CONTRACTOR SHALL NOTIFY THE UTILITIES DEPARTMENT 48 HOURS MINIMUM.
- CONTRACTOR TO INSTALL TRACING TAPE ALONG ALL NON-METALLIC SERVICE LINES PER SPECIFICATIONS.
- CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF NEW UTILITIES.
- A MINIMUM HORIZONTAL DISTANCE SHALL BE MAINTAINED BETWEEN PARALLEL WATER AND SANITARY SEWER LINES. REFERENCE LEE'S SUMMIT SPECIFICATIONS, SECTIONS 3500 AND 3900
- CONTRACTOR TO SCHEDULE ALL INSPECTIONS FOR SEWER MAIN CONNECTIONS THROUGH THE PUBLIC WORKS DEPARTMENT.

### NOTES:

- PROPOSED GAS SERVICE LINE (COORDINATE WITH MEP PLANS, SPIRE AND CONSTRUCTION MANAGER)
- GAS METER (REFER TO MEP PLANS)
- REMOVE OR ADJUST ROUTING AND DEPTH TO EXISTING GAS LINE AS REQUIRED TO INSTALL IMPROVEMENTS.
- COORDINATE WITH SPIRE.
- HIGH PRESSURE GAS REGULATOR TO BE REPLACED. COORDINATE WITH MEP PLANS.
- EXISTING GAS LINE PER RECORD DRAWINGS. CONFIRM IF ACTIVE. REMOVE OR ABANDON AS APPLICABLE TO INSTALL IMPROVEMENTS.
- ELECTRIC CONDUIT WITH PULL STRING, INSTALLED BY CONTRACTOR. MAXIMUM BURIAL DEPTH IS 36" BELOW FUTURE GRADE. (COORDINATE TERMINATION POINT WITH ELECTRICAL SITE PLAN. REFER TO MEP PLANS FOR NUMBER OF CONDUITS AND MATERIAL SPECIFICATIONS.)
- TELECOM CONDUIT WITH PULL STRING, INSTALLED BY CONTRACTOR (COORDINATE TERMINATION POINT WITH ELECTRICAL SITE PLAN. REFER TO MEP PLANS FOR NUMBER OF CONDUITS AND MATERIAL SPECIFICATIONS.)
- EXISTING TRANSFORMER
- PROPOSED TRANSFORMER OR SWITCH GEAR ON HOUSEKEEPING PAD (COORDINATE WITH SITE ELECTRICAL PLANS AND SPECIFICATIONS FOR PAD REQUIREMENTS)
- PROPOSED HANDHOLE (COORDINATE WITH SITE ELECTRICAL PLANS)
- CONTRACTOR TO COORDINATE WITH EVERY DESIGN TEAM TO LOCATE ANY NECESSARY GUY WIRES OUTSIDE OF LIMITS OF DESIGNATED FIRE LANE
- STORM SEWER (SEE C600 SERIES SHEETS)
- POINT OF CONNECTION - ROOF DRAIN (SEE C600 SERIES SHEETS)
- SANITARY SEWER MANHOLE
- SANITARY SEWER MAIN (SEE SHEET C550, C560 AND C570)
- SANITARY SEWER SERVICE LINE, SLOPE AT 1% MINIMUM (UNLESS NOTED OTHERWISE). SEE PROFILE ON SHEET C550, C560 OR C570.
- SEWER LINE TO BE SCOPED FOR CONDITION AND DEPTH. DAMAGED SECTION TO BE REPAIRED. COORDINATE WITH LEE'S SUMMIT SCHOOL DISTRICT.
- SANITARY SERVICE LINE UNDER BUILDING TO BE REMOVED AND REPLACE WITH MATERIALS SUITABLE SUITABLE FOR UNDERSLAB PLUMBING. COORDINATE WITH MEP PLANS AND SPECIFICATIONS.
- SANITARY SEWER CLEANOUTS (SEE DETAIL ON SHEET C590)
- 8" PVC AWWA C900 FIRE PROTECTION LINE (SEE SHEETS C510 AND C520 FOR PLAN AND PROFILE)
- PROPOSED FIRE HYDRANT ASSEMBLY (SEE SHEETS C510 AND C520)
- DOUBLE CHECK BACKFLOW PREVENTER IN VAULT FOR FIRE PROTECTION LINE
- 6" PVC AWWA C900 DOMESTIC WATER SERVICE LINE WITH PARALLEL AND OFFSET NORTH/NORTHEAST FROM FIRE PROTECTION LINE. REFER TO SHEET C520 FOR OFFSET SPACING, ROUTING AND FITTING LOCATIONS. SEE CONSTRUCTION NOTES ON SHEET C520.
- POINT OF CONNECTION - DOMESTIC WATER SERVICE (PROVIDE 8"x4" TEE AND GATE VALVE ON DOMESTIC LINE)
- POINT OF CONNECTION TO BUILDING - DOMESTIC WATER SERVICE (SEE MEP PLANS)
- 4" WATER METER IN VAULT
- 8" CLASS 50 DIP FIRE SERVICE (SEE FIRE PROTECTION PLANS FOR CONTINUATION AT BUILDING)
- POINT OF CONNECTION TO BUILDING - FIRE SERVICE (SEE MEP PLANS)
- REMOVE FIRE DEPARTMENT CONNECTION (FDC) (SEE MEP PLANS FOR SPECIFICATIONS)
- CONTRACTOR TO INSTALL 55 LF OF 6" CLASS 50 DIP FIRE SERVICE TO 22.5' BEND AND 4x4 LF TO REMOVE FDC. PROVIDE NECESSARY BENDS AND FITTINGS. RESTRAIN THROUGHOUT.
- RELOCATE EXISTING 3" DOMESTIC WATERLINE WITH 3" CLASS 52 DIP AS REQUIRED TO CONSTRUCT IMPROVEMENTS.
- RELOCATED EXISTING IMPROVEMENTS. FIELD VERIFY SIZE AND MATERIAL. NEW MATERIALS SHALL MEET REQUIREMENTS OUTLINED IN THE CONSTRUCTION NOTES ON SHEET C520 AND PROJECT SPECIFICATIONS.
- SITE AND PARKING LOT LIGHTING. REFER TO SHEETS E003 AND E004

### NOTE:

- REFER TO SHEETS E001 THRU E004 FOR ADDITIONAL SITE ELECTRICAL AND TELECOM REQUIREMENTS FOR SITE ELECTRICAL, LIGHTING AND SIGNAGE.
- ALL WATER SERVICE INSTALLATIONS INCLUDING BACKFLOW DEVICES ARE SUBJECT TO FIELD VERIFICATION AND APPROVAL BY THE WATER DEPARTMENT INSPECTOR.

### NOTE:

- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.

### WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGNING FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A TEMPORARY BASIS AT THE SITE.

### CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

### SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

0 30 60 120  
SCALE: 1" = 60'



PROJ. NO. C20-0496  
CFN: 0496UP.DWG  
DSN: DWN  
DWN: NUN  
DAVID D. WOOD  
ENGINEER  
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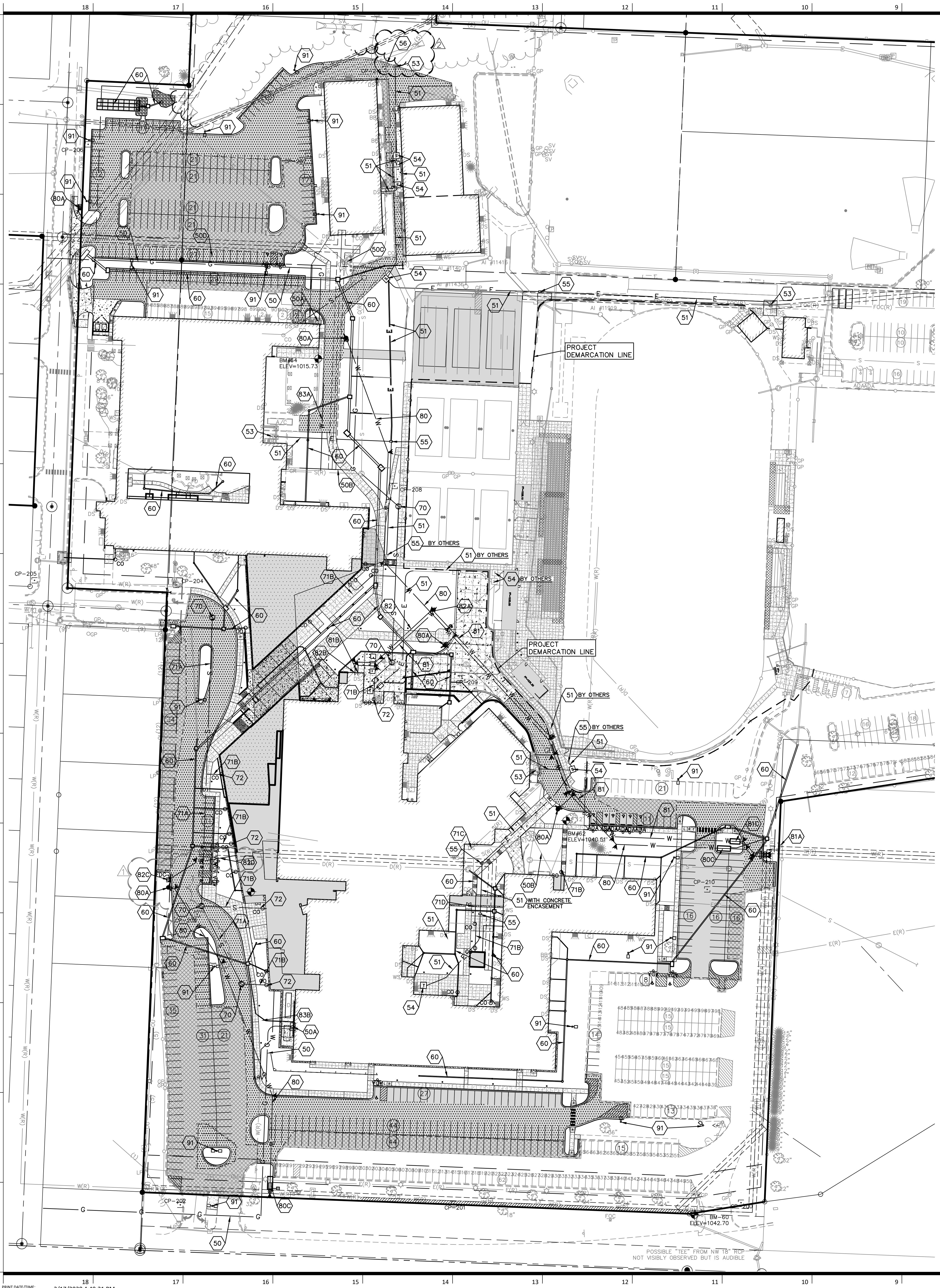
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DATE: December 29, 2020

Package 2

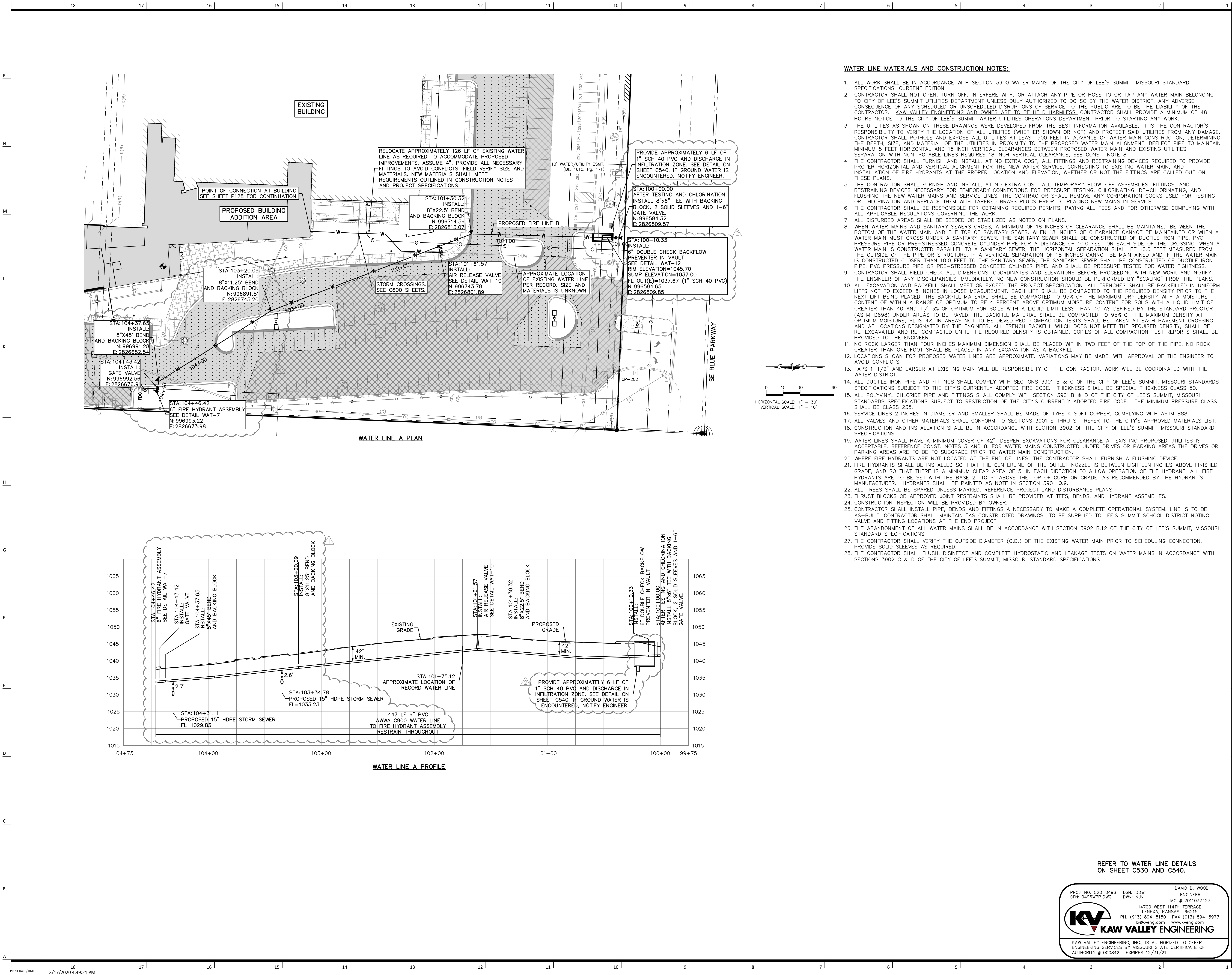
UTILITY PLAN

C500

Issued for Construction







**WATER LINE MATERIALS AND CONSTRUCTION NOTES:**

1. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 3900 WATER MAINS OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS, CURRENT EDITION.
2. CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO CITY OF LEE'S SUMMIT UTILITIES DEPARTMENT UNLESS DULY AUTHORIZED TO DO SO BY THE WATER DISTRICT. ANY ADVERSE CONSEQUENCE OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR. KAW VALLEY ENGINEERING AND OWNER ARE TO BE HELD HARMLESS. CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE TO THE CITY OF LEE'S SUMMIT WATER UTILITIES OPERATIONS DEPARTMENT PRIOR TO STARTING ANY WORK.
3. THE UTILITIES AS SHOWN ON THESE DRAWINGS WERE DEVELOPED FROM THE BEST INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE. CONTRACTOR SHALL POthOLE AND EXPOSE ALL UTILITIES AT LEAST 500 FEET IN ADVANCE OF WATER MAIN CONSTRUCTION, DETERMINING THE DEPTH, SIZE, AND MATERIAL OF THE UTILITIES IN PROXIMITY TO THE PROPOSED WATER MAIN ALIGNMENT. DEFLECT PIPE TO MAINTAIN MINIMUM 5 FEET HORIZONTAL AND 18 INCH VERTICAL CLEARANCES BETWEEN PROPOSED WATER MAIN AND EXISTING UTILITIES. SEPARATION WITH NON-POTABLE LINES REQUIRES 18 INCH VERTICAL CLEARANCE. SEE CONST. NOTE 8.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL, AT NO EXTRA COST, ALL FITTINGS AND RESTRAINING DEVICES REQUIRED TO PROVIDE PROPER HORIZONTAL AND VERTICAL ALIGNMENT FOR THE NEW WATER SERVICE, CONNECTING TO EXISTING WATER MAIN, AND INSTALLATION OF FIRE HYDRANTS AT THE PROPER LOCATION AND ELEVATION, WHETHER OR NOT THE FITTINGS ARE CALLED OUT ON THESE PLANS.
5. THE CONTRACTOR SHALL FURNISH AND INSTALL, AT NO EXTRA COST, ALL TEMPORARY BLOW-OFF ASSEMBLIES, FITTINGS, AND RESTRAINING DEVICES NECESSARY FOR TEMPORARY CONNECTIONS FOR PRESSURE TESTING, CHLORINATING, DE-CHLORINATING, AND FLUSHING THE NEW WATER MAINS AND SERVICE LINES. THE CONTRACTOR SHALL REMOVE ANY CORPORATION COCKS USED FOR TESTING OR CHLORINATION AND REPLACE THEM WITH TAPERED BRASS PLUGS PRIOR TO PLACING NEW MAINS IN SERVICE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED PERMITS, PAYING ALL FEES AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
7. ALL DISTURBED AREAS SHALL BE SEEDED OR STABILIZED AS NOTED ON PLANS.
8. WHEN WATER MAINS AND SANITARY SEWERS CROSS, A MINIMUM OF 18 INCHES OF CLEARANCE SHALL BE MAINTAINED BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF SANITARY SEWER. WHEN 18 INCHES OF CLEARANCE CANNOT BE MAINTAINED OR WHEN A WATER MAIN MUST CROSS UNDER A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE, PVC PRESSURE PIPE OR PRE-STRESSED CONCRETE CYLINDER PIPE FOR A DISTANCE OF 10.0 FEET ON EACH SIDE OF THE CROSSING. WHEN A WATER MAIN IS CONSTRUCTED PARALLEL TO A SANITARY SEWER, THE HORIZONTAL SEPARATION SHALL BE 10.0 FEET MEASURED FROM THE OUTSIDE OF THE PIPE OR STRUCTURE. IF A VERTICAL SEPARATION OF 18 INCHES CANNOT BE MAINTAINED AND IF THE WATER MAIN IS CONSTRUCTED CLOSER THAN 10.0 FEET TO THE SANITARY SEWER, THE SANITARY SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE, PVC PRESSURE PIPE OR PRE-STRESSED CONCRETE CYLINDER PIPE. AND SHALL BE PRESSURE TESTED FOR WATER TIGHTNESS.
9. CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS, COORDINATES AND ELEVATIONS BEFORE PROCEEDING WITH NEW WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES IMMEDIATELY. NO NEW CONSTRUCTION SHOULD BE PERFORMED BY "SCALING" FROM THE PLANS.
10. ALL EXCAVATION AND BACKFILL SHALL MEET OR EXCEED THE PROJECT SPECIFICATION. ALL TRENCHES SHALL BE BACKFILLED IN UNIFORM LIFTS NOT TO EXCEED 8 INCHES IN LOOSE MEASUREMENT. EACH LIFT SHALL BE COMPACTED TO THE REQUIRED DENSITY PRIOR TO THE NEXT LIFT BEING PLACED. THE BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT OF WITHIN A RANGE OF OPTIMUM TO BE 4 PERCENT ABOVE OPTIMUM MOISTURE CONTENT FOR SOILS WITH A LIQUID LIMIT OF GREATER THAN 40 AND +/- 3% OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT LESS THAN 40 AS DEFINED BY THE STANDARD PROCTOR (ASTM-D698) UNDER AREAS TO BE PAVED. THE BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE, PLUS 4%, IN AREAS NOT TO BE DEVELOPED. COMPACTION TESTS SHALL BE TAKEN AT EACH PAVEMENT CROSSING AND AT LOCATIONS DESIGNATED BY THE ENGINEER. ALL TRENCH BACKFILL WHICH DOES NOT MEET THE REQUIRED DENSITY, SHALL BE RE-EXCAVATED AND RE-COMPACTED UNTIL THE REQUIRED DENSITY IS OBTAINED. COPIES OF ALL COMPACTION TEST REPORTS SHALL BE PROVIDED TO THE ENGINEER.
11. NO ROCK LARGER THAN FOUR INCHES MAXIMUM DIMENSION SHALL BE PLACED WITHIN TWO FEET OF THE TOP OF THE PIPE. NO ROCK GREATER THAN ONE FOOT SHALL BE PLACED IN ANY EXCAVATION AS A BACKFILL.
12. LOCATIONS SHOWN FOR PROPOSED WATER LINES ARE APPROXIMATE. VARIATIONS MAY BE MADE, WITH APPROVAL OF THE ENGINEER TO AVOID CONFLICTS.
13. TAPS 1-1/2" AND LARGER AT EXISTING MAIN WILL BE RESPONSIBILITY OF THE CONTRACTOR. WORK WILL BE COORDINATED WITH THE WATER DISTRICT.
14. ALL DUCTILE IRON PIPE AND FITTINGS SHALL COMPLY WITH SECTIONS 3901 B & C OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARDS SPECIFICATIONS SUBJECT TO THE CITY'S CURRENTLY ADOPTED FIRE CODE. THICKNESS SHALL BE SPECIAL THICKNESS CLASS 50.
15. ALL POLYVINYL CHLORIDE PIPE AND FITTINGS SHALL COMPLY WITH SECTION 3901.B & D OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARDS SPECIFICATIONS SUBJECT TO RESTRICTION OF THE CITY'S CURRENTLY ADOPTED FIRE CODE. THE MINIMUM PRESSURE CLASS SHALL BE CLASS 235.
16. SERVICE LINES 2 INCHES IN DIAMETER AND SMALLER SHALL BE MADE OF TYPE K SOFT COPPER, COMPLYING WITH ASTM B88.
17. ALL VALVES AND OTHER MATERIALS SHALL CONFORM TO SECTIONS 3901 E THRU S. REFER TO THE CITY'S APPROVED MATERIALS LIST.
18. CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 3902 OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS.
19. WATER LINES SHALL HAVE A MINIMUM COVER OF 42" DEEPER EXCAVATIONS FOR CLEARANCE AT EXISTING PROPOSED UTILITIES IS ACCEPTABLE. REFERENCE CONST. NOTES 3 AND 8. FOR WATER MAINS CONSTRUCTED UNDER DRIVES OR PARKING AREAS THE DRIVES OR PARKING AREAS ARE TO BE TO SUBGRADE PRIOR TO WATER MAIN CONSTRUCTION.
20. WHERE FIRE HYDRANTS ARE NOT LOCATED AT THE END OF LINES, THE CONTRACTOR SHALL FURNISH A FLUSHING DEVICE.
21. FIRE HYDRANTS SHALL BE INSTALLED SO THAT THE CENTERLINE OF THE OUTLET NOZZLE IS BETWEEN EIGHTEEN INCHES ABOVE FINISHED GRADE, AND SO THAT THERE IS A MINIMUM CLEAR AREA OF 5' IN EACH DIRECTION TO ALLOW OPERATION OF THE HYDRANT. ALL FIRE HYDRANTS ARE TO BE SET WITH THE BASE 2' TO 6" ABOVE THE TOP OF CURB OR GRADE, AS RECOMMENDED BY THE HYDRANT'S MANUFACTURER. HYDRANTS SHALL BE PAINTED AS NOTE IN SECTION 3901 Q.9.
22. ALL TREES SHALL BE SPARED UNLESS MARKED. REFERENCE PROJECT LAND DISTURBANCE PLANS.
23. THRUST BLOCKS OR APPROVED JOINT RESTRAINTS SHALL BE PROVIDED AT TEES, BENDS, AND HYDRANT ASSEMBLIES.
24. CONSTRUCTION INSPECTION WILL BE PROVIDED BY OWNER.
25. CONTRACTOR SHALL INSTALL PIPE, BENDS AND FITTINGS A NECESSARY TO MAKE A COMPLETE OPERATIONAL SYSTEM. LINE IS TO BE AS-BUILT. CONTRACTOR SHALL MAINTAIN "AS CONSTRUCTED DRAWINGS" TO BE SUPPLIED TO LEE'S SUMMIT SCHOOL DISTRICT NOTING VALVE AND FITTING LOCATIONS AT THE END PROJECT.
26. THE ABANDONMENT OF ALL WATER MAINS SHALL BE IN ACCORDANCE WITH SECTION 3902 B.12 OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS.
27. THE CONTRACTOR SHALL VERIFY THE OUTSIDE DIAMETER (O.D.) OF THE EXISTING WATER MAIN PRIOR TO SCHEDULING CONNECTION.
28. THE CONTRACTOR SHALL FLUSH, DISINFECT AND COMPLETE HYDROSTATIC AND LEAKAGE TESTS ON WATER MAINS IN ACCORDANCE WITH SECTIONS 3902 C & D OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS.

**Lee's Summit  
High School**

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

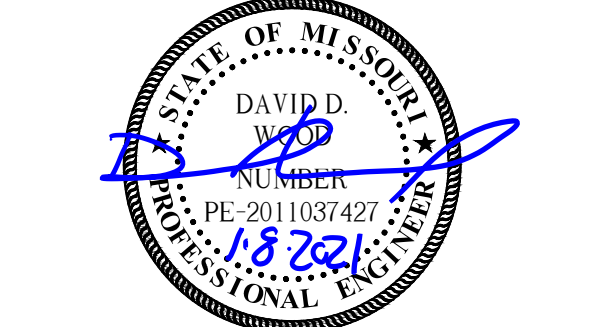
architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.gould-evans.com

structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
Kaw Valley Engineering  
14700 West 114th Terrace  
Lenexa, KS 66215  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.0700

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Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

REVISIONS		
Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

**PRIVATE DOMESTIC WATER  
AND FIRE PROTECTION  
PLAN AND PROFILE**

**C510**

Issued for Construction

REFER TO WATER LINE DETAILS  
ON SHEET C530 AND C540.

PROJ. NO. C20-0496  
CFN: 0496WPP.DWG

DSN: DDW  
DWN: NJN

DAVID D. WOOD  
ENGINEER  
MO # 2011037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66215  
PH. (913) 694-5150 / FAX (913) 694-5977  
ld@kveeng.com www.kveeng.com

**KAW VALLEY ENGINEERING**  
KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER  
ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF  
AUTHORITY # 000842. EXPIRES 12/31/21



400 SE Blue Pkwy  
Lee's Summit, MO 64063

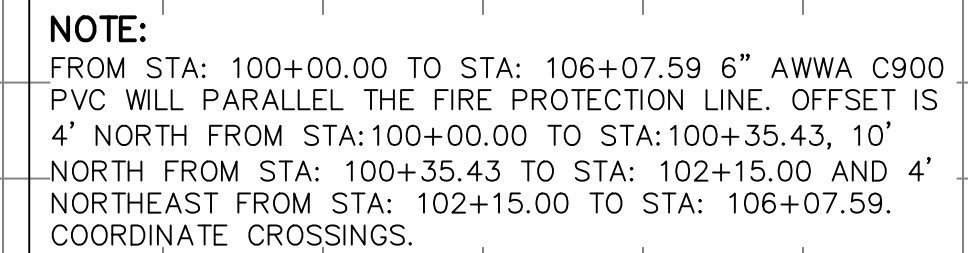
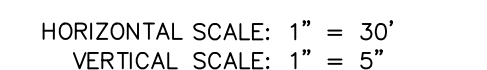
owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

architect:  
**Gould Evans**  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
[www.goulddevans.com](http://www.goulddevans.com)

structural engineer:  
**Bob D. Campbell & Company, Inc.**  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
**Kaw Valley Engineering**  
14700 West 114th Terrace  
Lenexa, KS 66215  
913.485.0318

mechanical/electrical engineer:  
**Henderson Engineers**  
1801 Main St  
Kansas City, MO 64108  
816.663.8700



Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

REVISIONS		
Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-28
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-28
3	PER CITY COMMENTS	12-29-28
4	PER CITY COMMENTS AND PACKAGE 2, ADDENDUM #1	1-8-2029

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

**01/14/2021**

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

## PRIVATE DOMESTIC WATER AND FIRE PROTECTION PLAN AND PROFILE

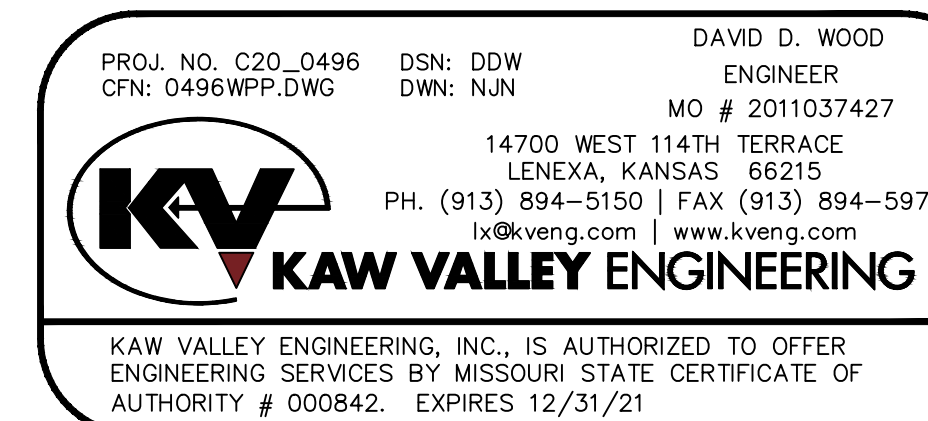
# C520

Issued for Construction



RESTRAIN JOINTS THROUGHOUT

REFER TO WATER LINE NOTES ON  
SHEET C510 AND WATER LINE  
DETAILS ON SHEET C530 AND C540.





## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

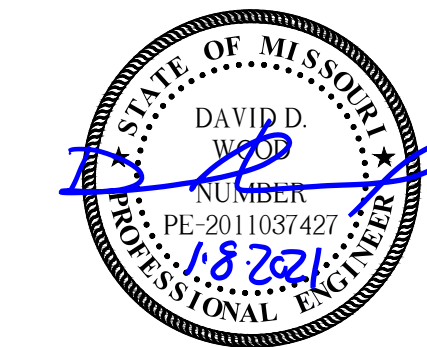
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civil engineer:  
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Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
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Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
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Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

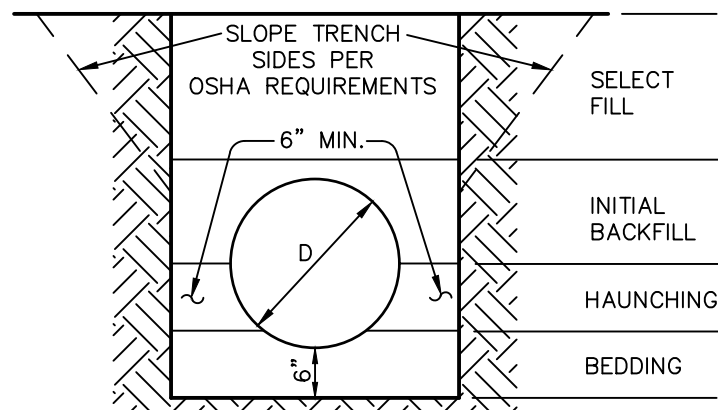
PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

WATER DETAILS

C530

Issued for Construction



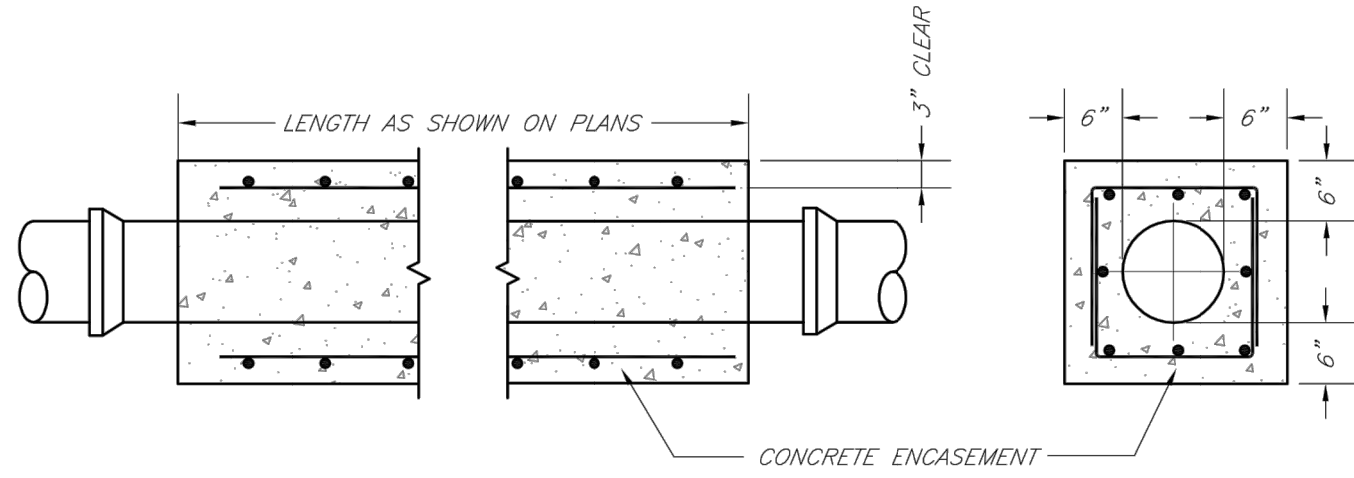
FLEXIBLE PIPE: INCLUDES CORRUGATED METAL PIPE,  
CORRUGATED POLYETHYLENE PIPE AND/OR POLYVINYL  
CHLORIDE PIPE.

RIGID PIPE: INCLUDES REINFORCED  
CONCRETE, DUCTILE IRON, & CAST IRON

- BEDDING SHALL BE COMPACTED CRUSHED STONE AND SHALL BE  
SHAPE TO THE BOTTOM OF THE PIPE.
- HAUNCHING AND INITIAL BACKFILL MATERIAL SHALL BE CLASS I  
OR II (REF. ASTM D2321) GRANULAR MATERIAL AND SHALL BE  
COMPACTED TO 95% STANDARD PROCTOR.

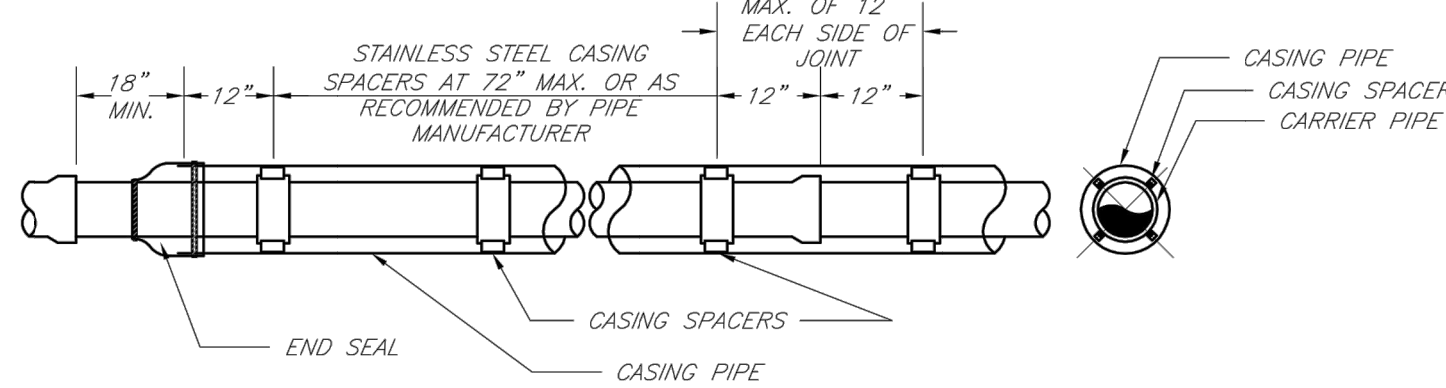
### TRENCH AND BEDDING DETAILS

REFER TO KANSAS CITY METROPOLITAN CHAPTER  
OF APWA SPECIFICATIONS SECTION 2102.4



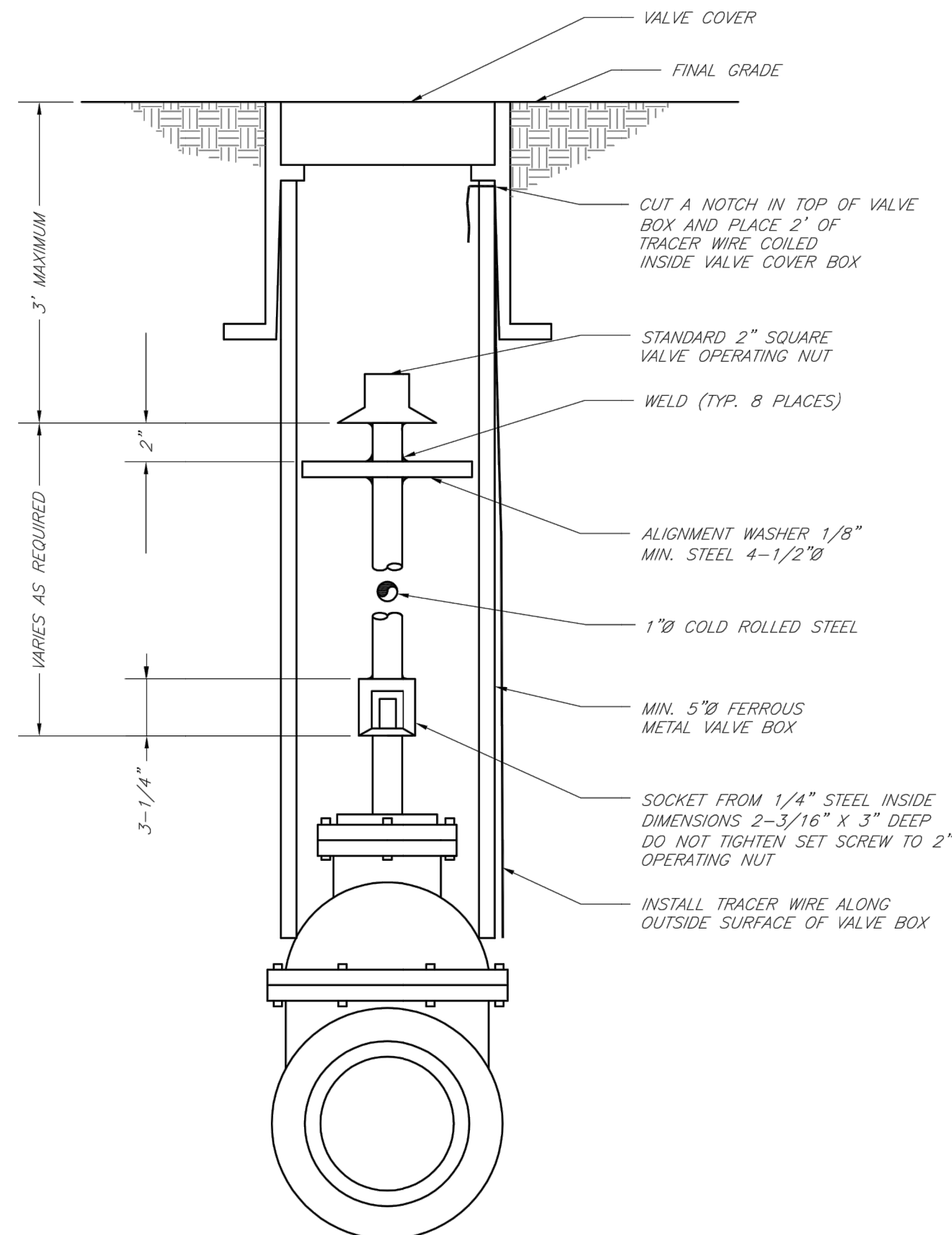
#### NOTES:

- INTERMEDIATE BELLS SHALL BE ENCASED.
- REINFORCING STEEL SHALL BE #4 @ 12" O.C. EACH WAY WITH A MINIMUM REBAR LAP OF 12".
- THIS DETAIL IS FOR PIPES 12" AND SMALLER.



#### NOTES:

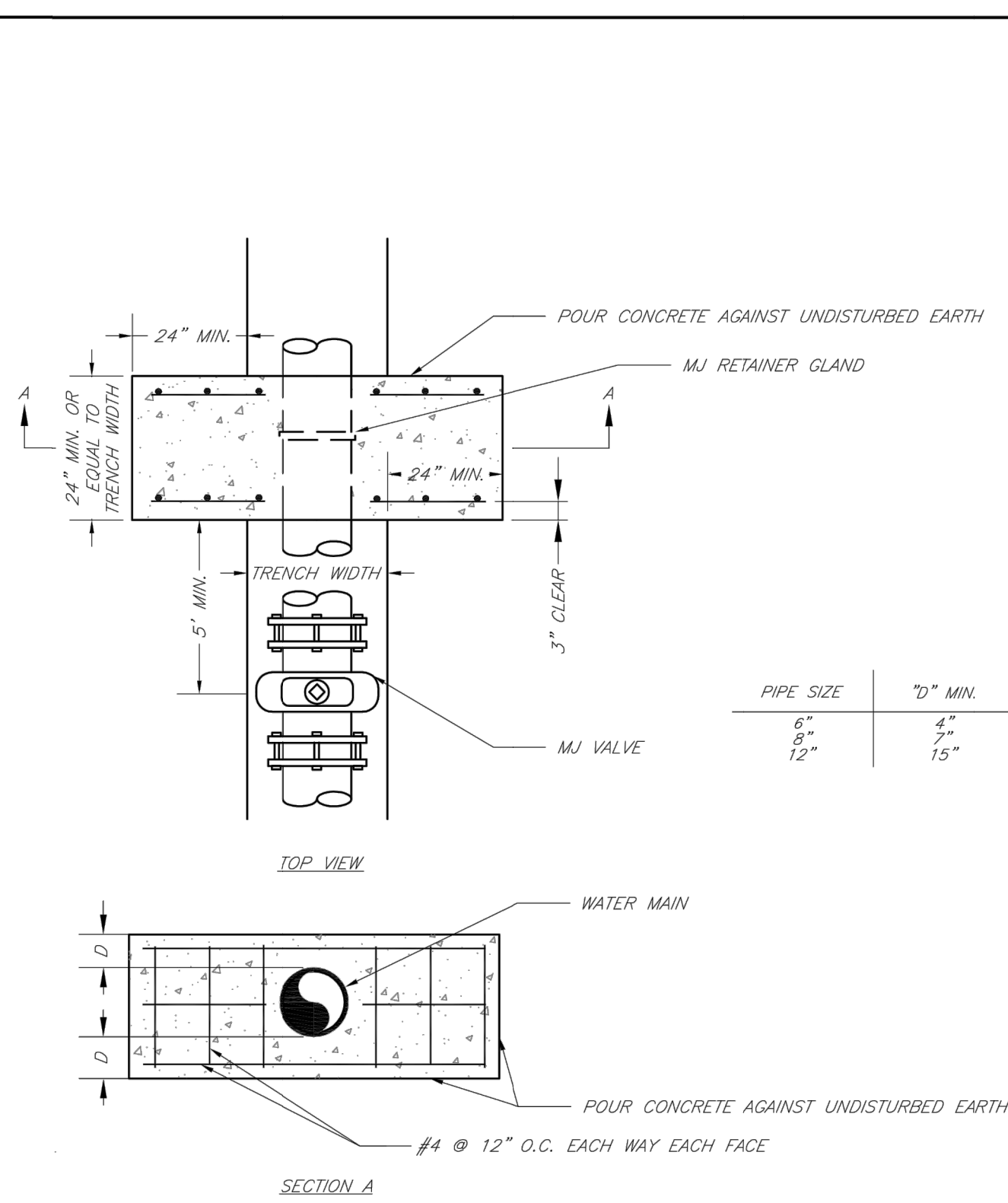
- REFER TO SPECIFICATION SECTION 3900 FOR ADDITIONAL INFORMATION.
- LENGTH, DIAMETER, AND WALL THICKNESS TO BE SHOWN ON CONSTRUCTION PLANS.



### LEE'S SUMMIT MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063  
VALVE STEM EXTENSION AND VALVE BOX

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



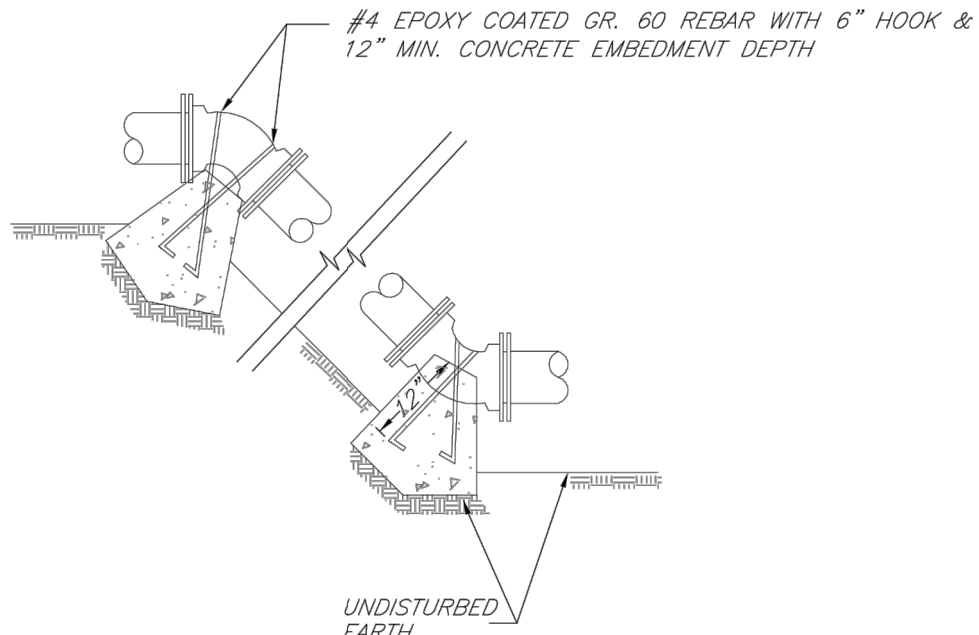
#### NOTE:

THIS DETAIL NOT TO BE USED FOR PIPE GREATER THAN 12"

REQUIRED CONCRETE VOLUME (CUBIC FEET - CF)									
NOM. DIA. (INCHES)	TEE, PLUG	BEND	BEND	BEND	BEND	BEND	BEND	BEND	BEND
6	50.5	71.4	38.6	19.7	9.9				
8	89.8	129.9	68.7	35.0	17.6				
10	140.2	198.3	107.3	54.7	27.5				
12	202.0	282.0	154.6	78.8	39.6				
14	REST. JT.	REST. JT.	210.4	107.3	53.9				
16	REST. JT.	REST. JT.	210.4	107.3	53.9				
18	REST. JT.	REST. JT.	REST. JT.	177.3	89.1				
20	REST. JT.	REST. JT.	REST. JT.	REST. JT.	110.0				
24	REST. JT.	REST. JT.	REST. JT.	REST. JT.	158.4				

#### NOTES:

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



### LEE'S SUMMIT MISSOURI

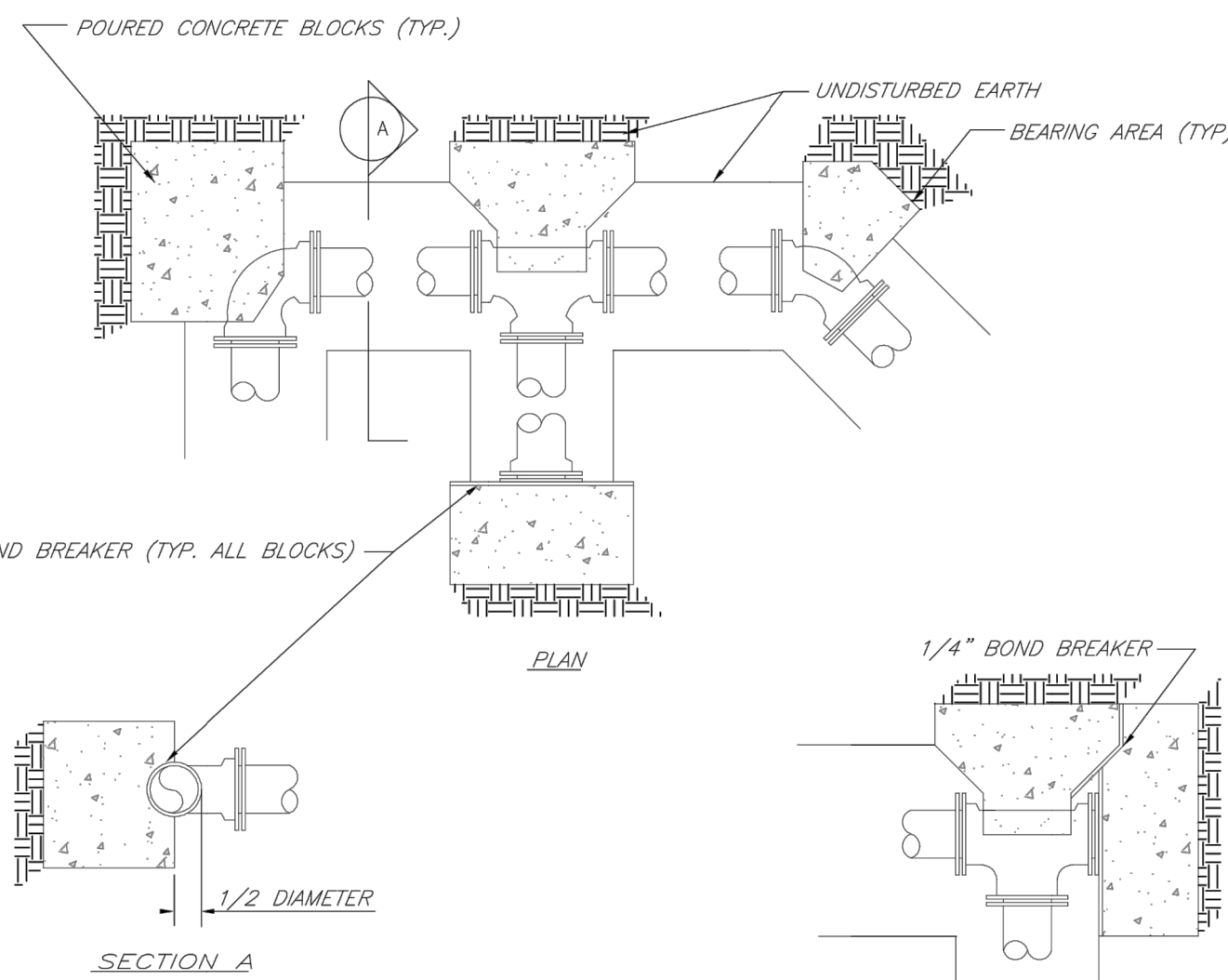
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063  
VERTICAL THRUST BLOCKS

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

REQUIRED CONCRETE BEARING AREA (SQUARE FEET - SF)									
NOM. DIA. (INCHES)	TEE, PLUG	BEND	BEND	BEND	BEND	BEND	BEND	BEND	BEND
6	4.7	6.7	4.0	4.0	4.0				
8	8.4	11.8	6.4	4.0	4.0				
10	13.1	18.5	10.0	5.1	4.0				
12	18.9	26.7	14.4	7.4	4.0				
14	25.7	36.3	19.6	10.0	6.0				
16	33.5	47.4	25.6	13.1	6.6				
18	42.4	REST. JT.	32.5	16.5	8.1				
20	REST. JT.	REST. JT.	40.1	20.4	10.3				
24	REST. JT.	REST. JT.	REST. JT.	29.4	14.8				

#### NOTES:

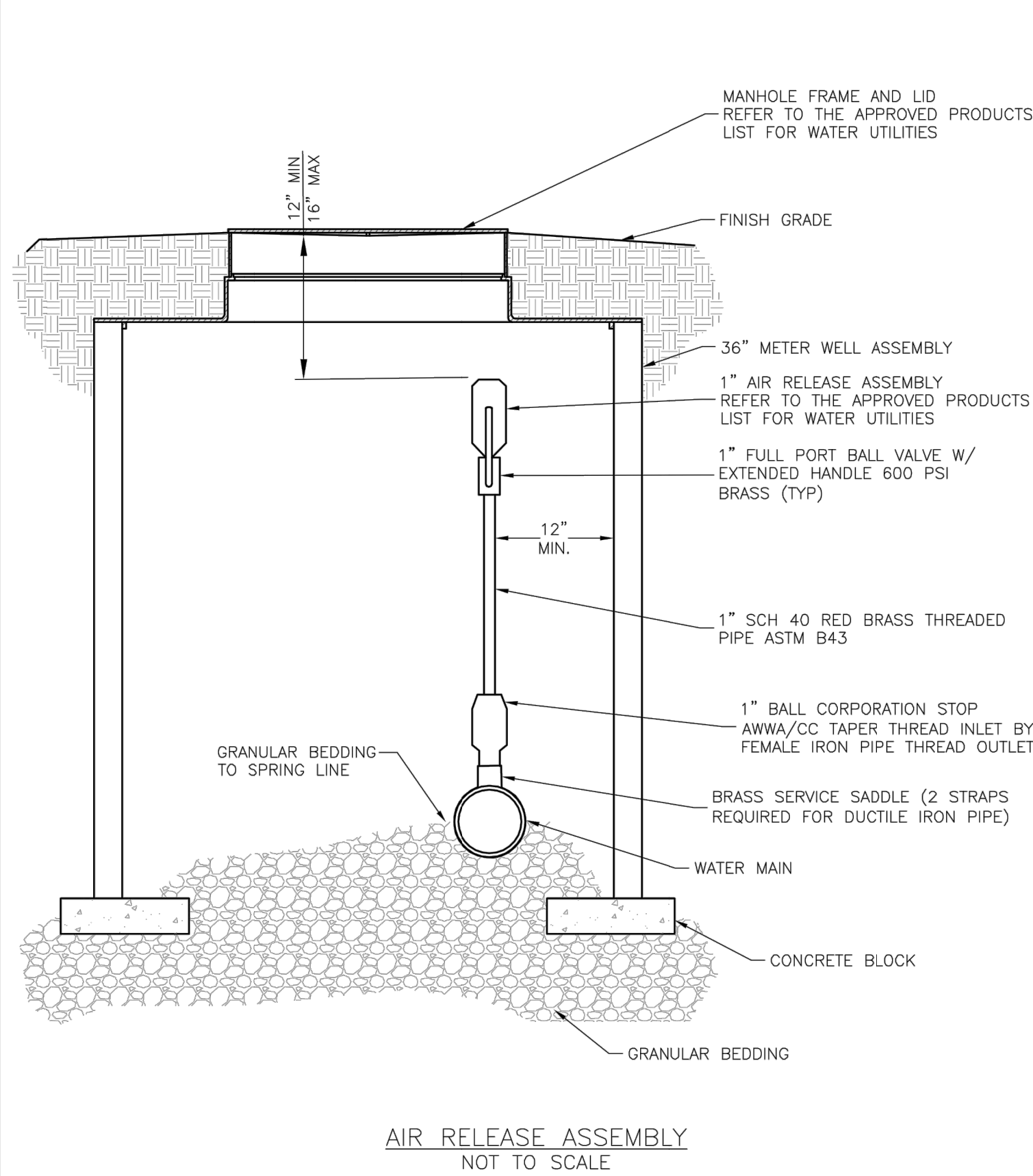
- ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
- MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
- BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
- DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



### LEE'S SUMMIT MISSOURI

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

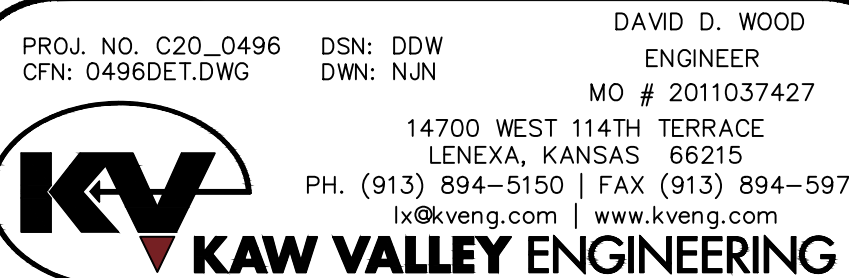
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Drawn By: JN  
Checked By: DL  
FILE: WAT-1  
Rev: 1/14  
Rev:



### LEE'S SUMMIT MISSOURI

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

Date: 02/13  
Drawn By: JN  
Checked By: DL  
FILE: WAT-10  
Rev: 1/14  
Rev:



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ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF  
AUTHORITY # 000842. EXPIRES 12/31/21



## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

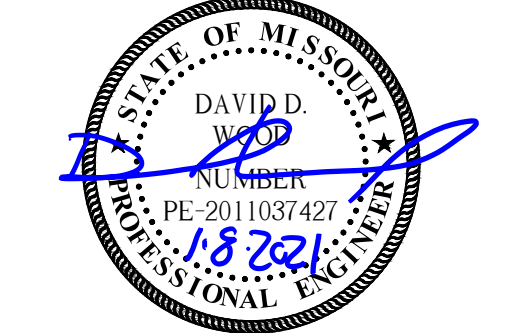
architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.gould-evans.com

structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
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mechanical/electrical engineer:  
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David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

REVISIONS		
Number	DESCRIPTION	DATE
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2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

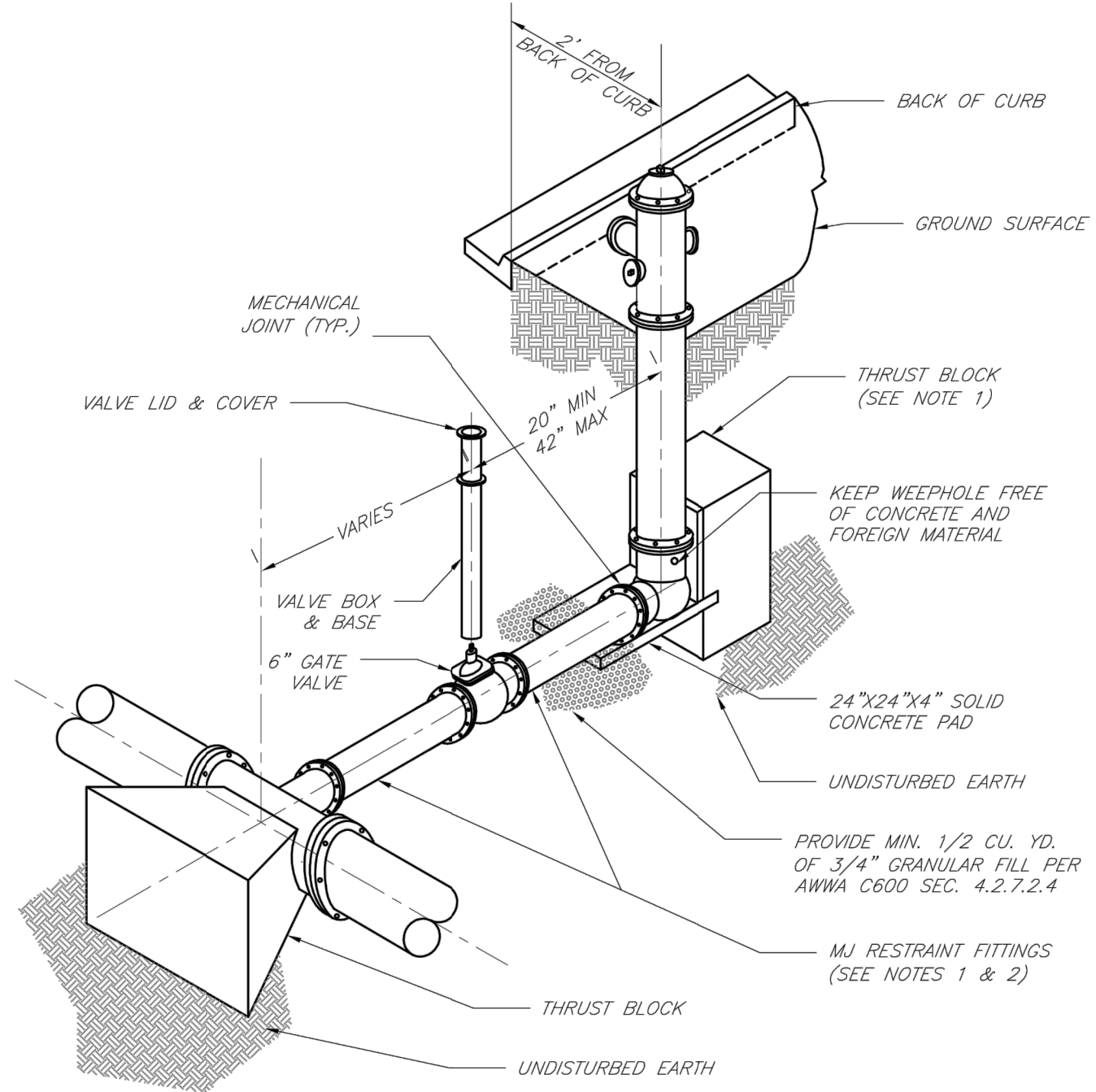
PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

WATER DETAILS

C540

Issued for Construction



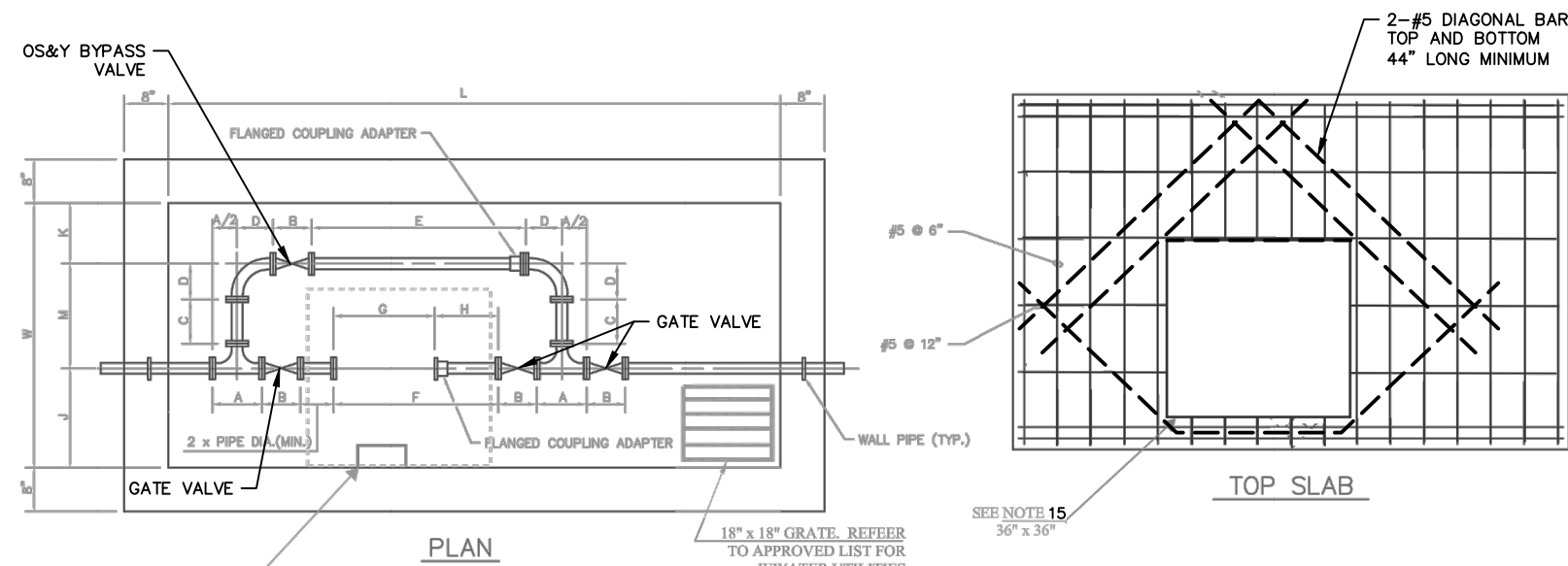
- NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
  2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
  3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
  4.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

Date: 02/15  
Drawn By: JN  
Checked By: DL  
FILE: MAT-7  
Rev: 1/14  
Rev:

HYDRANT INSTALLATION - STRAIGHT SET



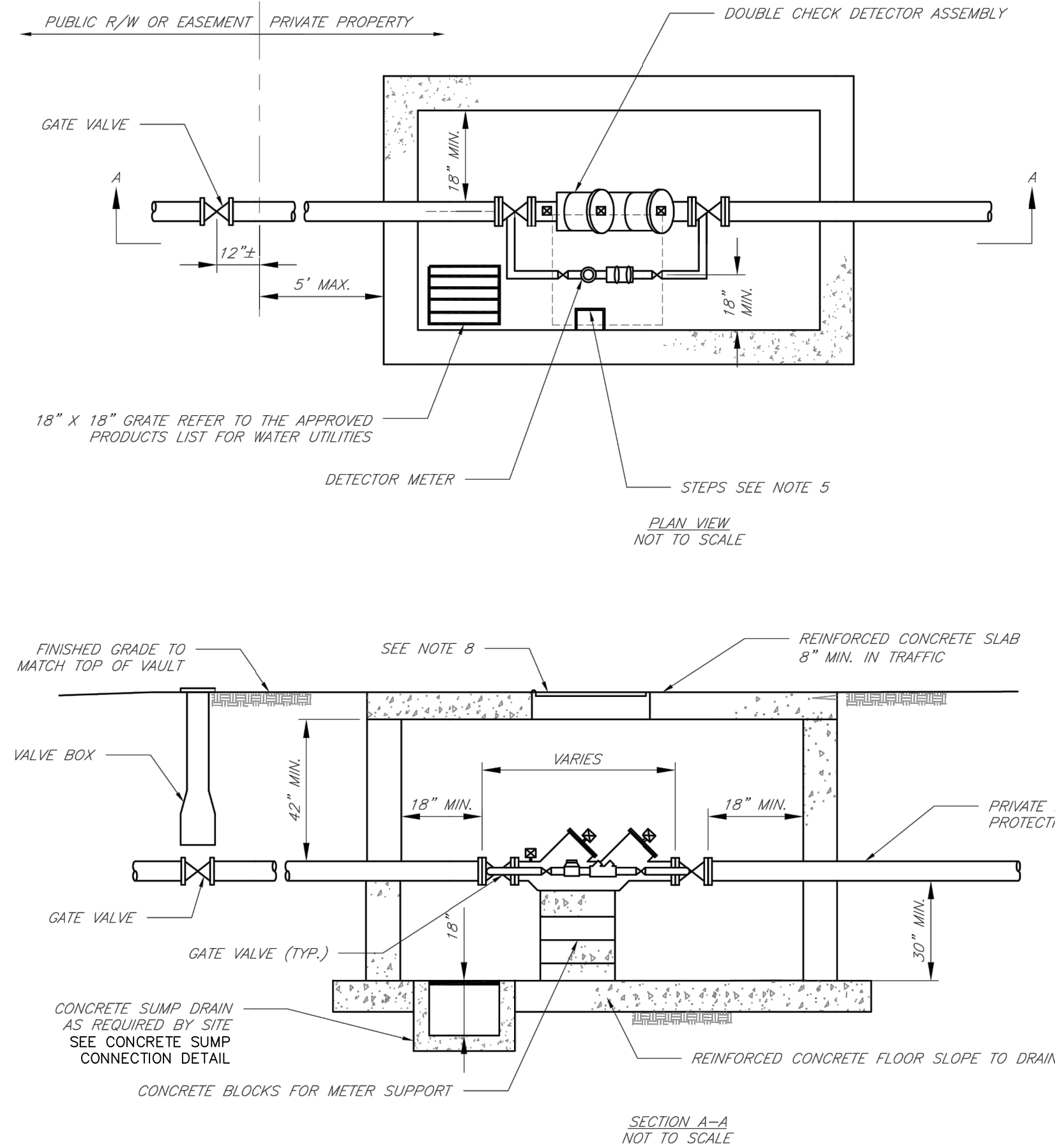
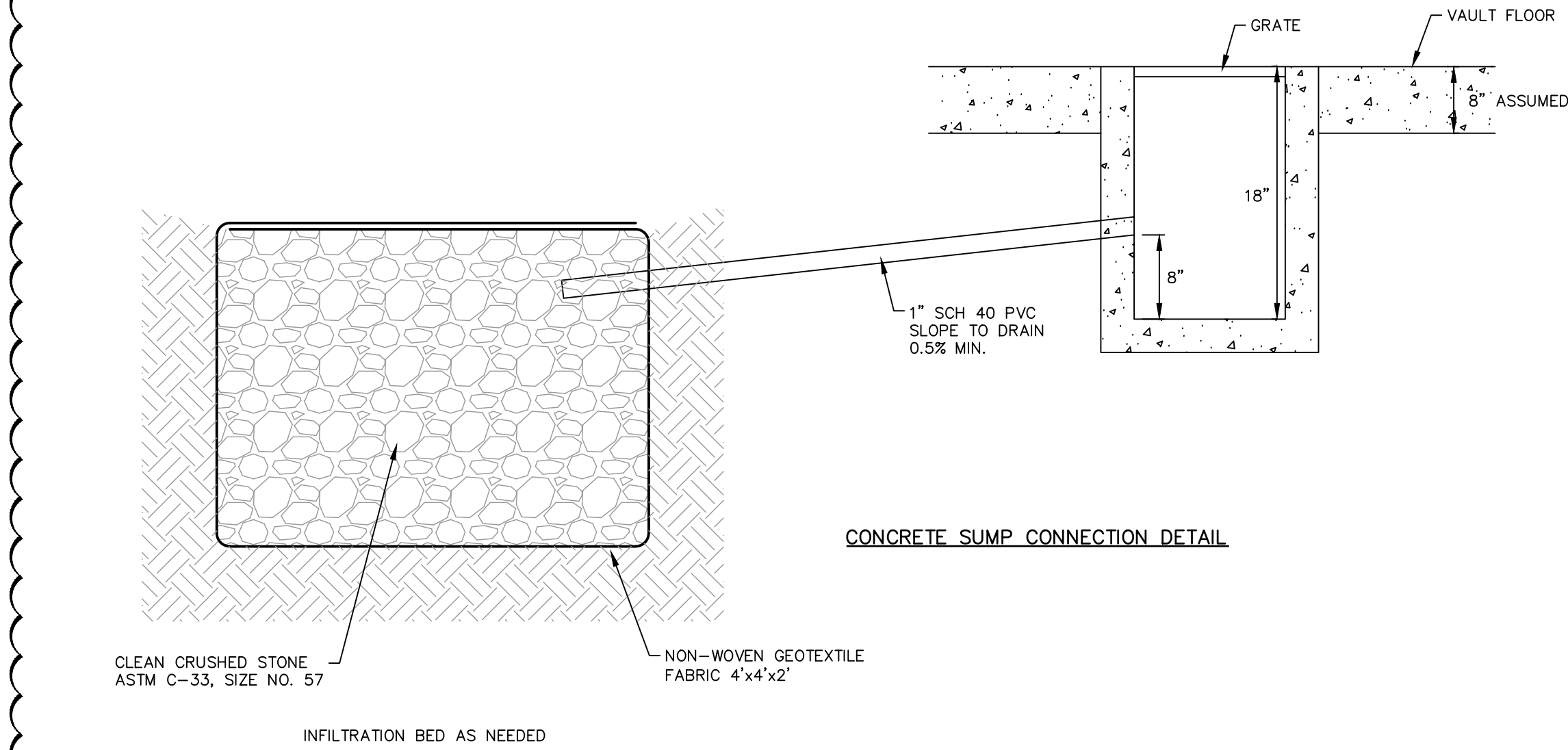
* VARIES BY MANUFACTURER												
METER SIZE	L	W	A	B	C	D	E	F	G	H	J	M
2"	122	48	9	7	8	4.5	39	30	*	*	18	11
3"	150	72	11	8	12	4.5	52	42	*	*	24	23
4"	171	72	13	9	12	4.5	52	42	*	*	24	21
6"	202	72	16	10.5	9	8	61	51	*	*	24	20

NOMINAL DIMENSIONS FOR SINGLE METER PITS  
ALL DIMENSIONS ARE IN INCHES

NOTES:

1. POUR FOOTING ON FIRM UNDISTURBED EARTH.
2. ALL PIPING IN METER PIT SHALL BE D.I.P. OR C.I.P.
3. VALVES SHALL BE GATE TYPE. BYPASS VALVE SHALL BE O.S. & Y.
4. WALLS TO BE DOUBLE FORMED.
5. ALL RE-BARS TO HAVE 3/4" COVER.
6. CONCRETE SHALL BE NO.8 MAX #WAGS-3/4-2-0.410.
7. TOP LAYER OF SLAB REINFORCEMENT MAY BE ELIMINATED IN CURBED NON-TRAFFIC AREAS.
8. 3" OR GREATER SIZE METER SHALL HAVE AN UPSTREAM STRAINER.
9. METER VAULT WALLS TO BE POURED OR PRECAST CONCRETE. METER VAULT ROOF TO BE REINFORCED CONCRETE WITH OPENING CENTERED OVER METER. REINFORCED WALLS AND SLABS ARE TO BE DESIGNED BY THE OWNER'S ENGINEER OR PRECAST ENGINEER.
10. METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA AND WHERE SURFACE WATER WILL NOT DRAIN INTO IT. PROVIDE CONCRETE SUMP TO DRAIN TO AN ABOVE GROUND DISCHARGE POINT.
11. ALL PIPE AND FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.
12. STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16" CENTERS.
13. PROVIDE CITY APPROVED METER. CONTACT WATER UTILITIES AT 816-969-1900.
14. ALL VALVES SHALL HAVE RISING STEMS.
15. MANHOLE COVER SHALL BE A BULO K-1 MODEL UNLESS IN A VEHICLE TRAFFIC AREA. SEE THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR TRAFFIC CONDITIONS. THE COVER SHALL HAVE A 1-3/4" HOLE DRILLED FOR A TOUCH/READ DEVICE.
16. A MINIMUM OF 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.

METERING PIT & SETTING W/BYPASS  
FOR SINGLE 2" THRU 6" METERS



GENERAL NOTES:

1. METER VAULT WALLS TO BE POURED OR PRECAST CONCRETE. METER VAULT ROOF TO BE REINFORCED CONCRETE WITH OPENING CENTERED OVER DETECTOR METER. REINFORCED WALLS AND SLABS ARE TO BE DESIGNED BY THE OWNER'S ENGINEER OR PRECAST ENGINEER.
2. METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA AND WHERE SURFACE WATER WILL NOT DRAIN INTO IT. PROVIDE CONCRETE SUMP TO DRAIN TO AN ABOVE GROUND DISCHARGE POINT.
3. ALL PIPE AND FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.
4. ALL FITTINGS FOR THE DETECTOR METER TO BE BRASS.
5. STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16" CENTERS.
6. A DEPARTMENT OF NATURAL RESOURCES APPROVED DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER MUST BE USED FOR A COPY OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES APPROVED BACKFLOW PREVENTION ASSEMBLIES, CONTACT WATER UTILITIES AT 816-969-1900.
7. ALL VALVES SHALL HAVE RISING STEMS.
8. MANHOLE COVER SHALL BE A BULO K-1 MODEL UNLESS IN A VEHICLE TRAFFIC AREA. SEE THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR TRAFFIC CONDITIONS. THE COVER SHALL HAVE A 1-3/4" HOLE DRILLED FOR A TOUCH/READ DEVICE.
9. A MINIMUM OF 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.
10. CONTACT PUBLIC WORKS ENGINEERING FOR VAULTS THAT INCLUDE A FIRE DEPARTMENT CONNECTION OR A 3" OR LARGER METER.

CITY OF LEE'S SUMMIT, MO  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
LEE'S SUMMIT, MO 64063

STANDARD DRAWINGS  
VAULT FOR DOUBLE CHECK DETECTOR CHECK

Date: 01/15  
Checked By: JN  
Rev: 1/14  
Rev:  
or  
MAT-12

PROJ. NO. C20\_0496  
CFN: 0496DET.DWG  
DSN: DDW  
DWN: NJN  
MO # 2011037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66215  
PH. (913) 694-5150 | FAX (913) 694-5977  
kve@kve.com www.kve.com

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER  
ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF  
AUTHORITY # 000842. EXPIRES 12/31/21



- SANITARY SEWER MATERIALS AND CONSTRUCTION NOTES:**
1. ALL WORK RELATED TO SANITARY SEWER SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 3500 SANITARY SEWERS OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS.
  2. ALL PIPE USED FOR SANITARY SEWER SHALL BE PVC (SDR 26) OR DIP (CL 50) AS NOTED ON PLANS. MATERIAL SHALL CONFORM TO SECTION 3501 C & D OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS.
  3. MANHOLES SHALL CONFORM TO SECTION 3501 P OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS.
  4. ALL EXISTING UTILITIES INDICATED ON THE DRAWINGS ARE ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER. HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF SAME SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
  5. ALL INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 3502 OF THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS. REFER TO SECTION 3502.C FOR TESTING AND ACCEPTANCE REQUIREMENTS.
  6. EXCAVATION, TRENCHING AND BACKFILL SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 2100 GRADING AND SITE PREPARATION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SPECIFICATIONS AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT. ALL EXCAVATIONS SHALL BE CONSIDERED UNCLASSIFIED. REFER TO PROJECT GEOTECHNICAL REPORT.
  7. ALL BACKFILL SHALL BE TAMPED. BACKFILL WITHIN THE RIGHT-OF-WAY AND UNDER PARKING AREAS AND SLABS SHALL BE 95% COMPACTION OF OPTIMUM MOISTURE.
  8. ALL STUB LINES SHALL BE LAID ON 1.00% GRADE FOR 6" PIPE AND 2.00% GRADE FOR 4" PIPE, UNLESS NOTED OTHERWISE.
  9. RELOCATION OF ANY WATER LINE, SEWER LINE OR SERVICE LINE THEREOF REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT HIS EXPENSE. REFER TO PLANS FOR ADDITIONAL INFORMATION.
  10. REFER TO SHEET C580 FOR SANITARY SEWER DETAILS.

**SAFETY NOTICE TO CONTRACTOR**

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

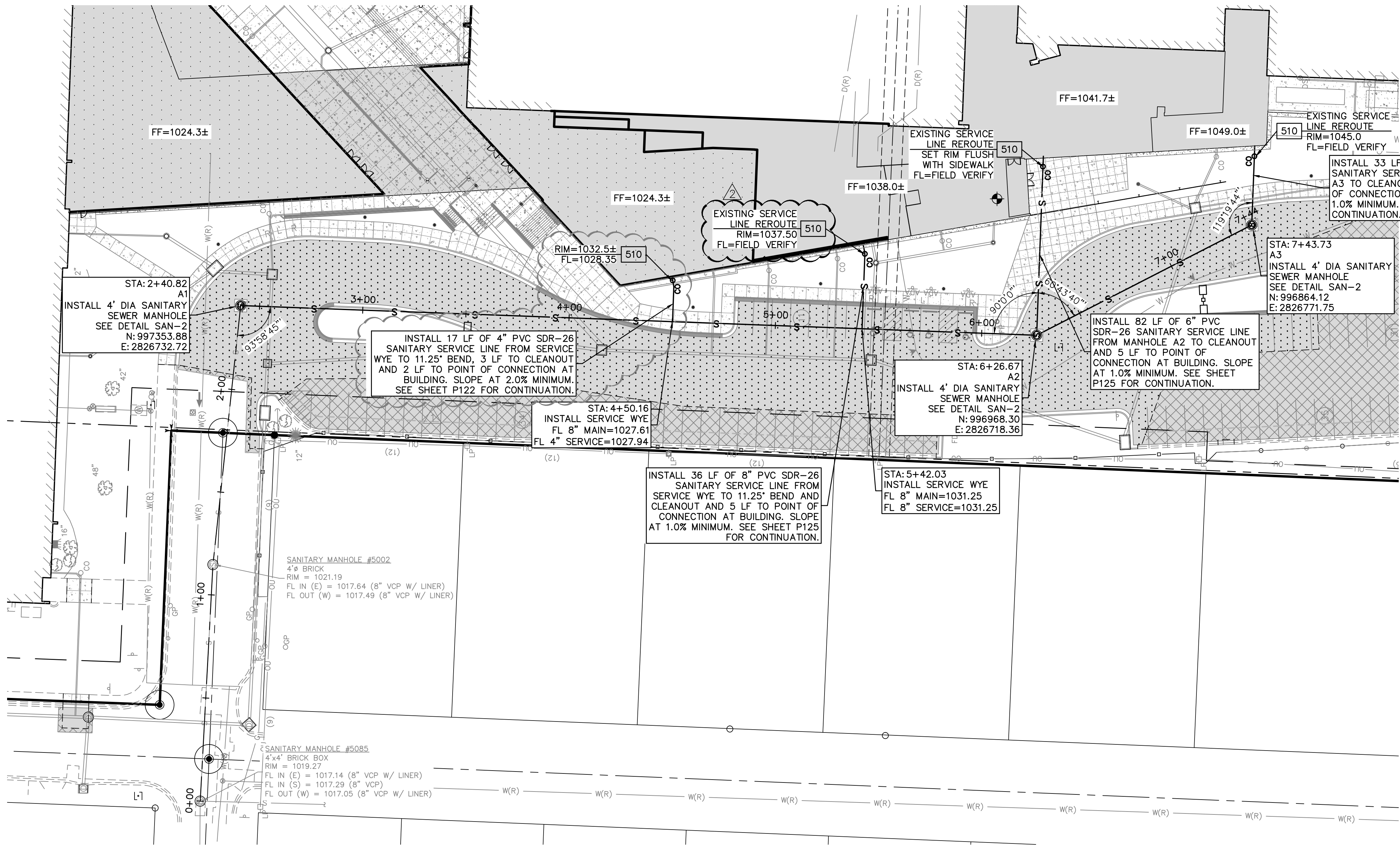
**WARRANTY / DISCLAIMER**

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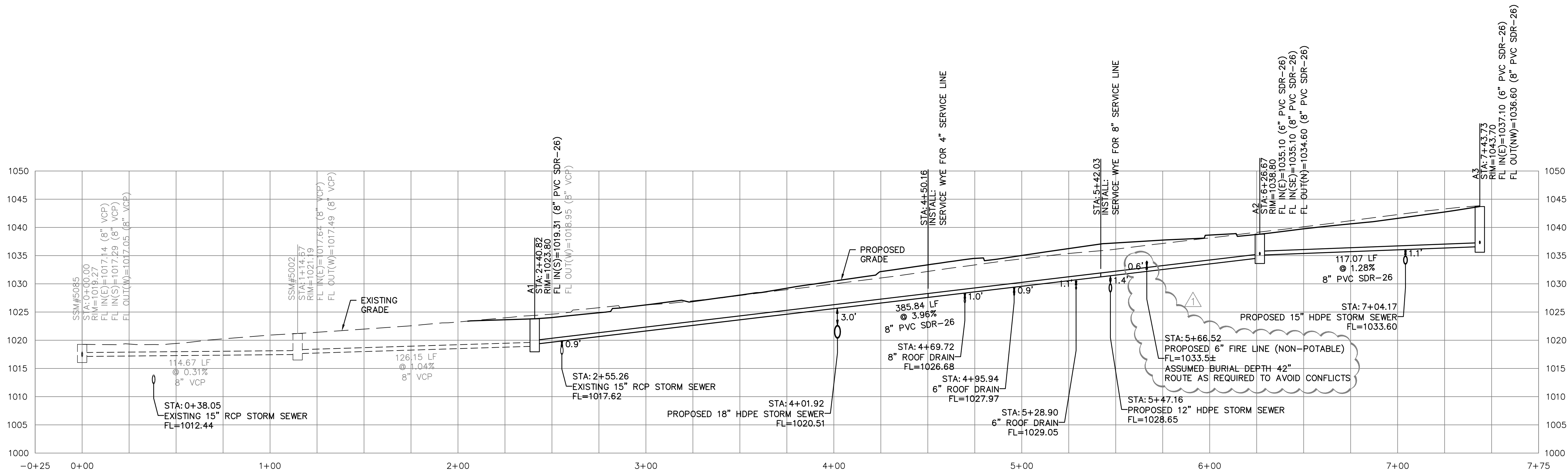
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**THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.**



PRIVATE SANITARY SEWER LINE A PLAN



PRIVATE SANITARY SEWER LINE A PROFILE



PROJ. NO. C20-0496  
CFN: 0496SPP.DWG  
DSN: DDW  
DWN: NJN  
DAVID D. WOOD  
ENGINEER  
MO # 201037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66215  
PH. (913) 894-5150 | FAX (913) 894-5977  
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KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/21

## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

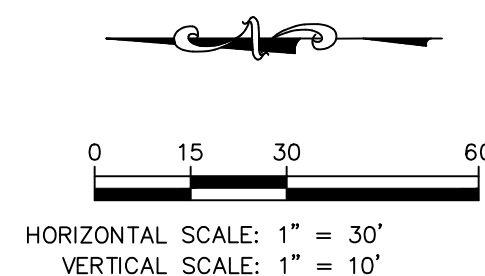
owner:  
Lee's Summit R-7 School District  
301 W. Tudor Road  
Lee's Summit, MO 64086

architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.gould-evans.com

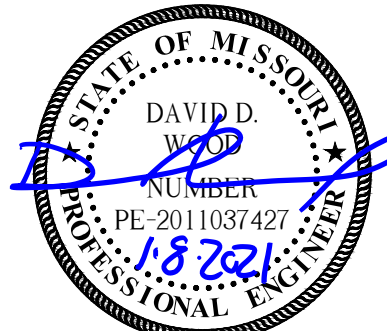
structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
Kaw Valley Engineering  
14700 West 114th Terrace  
Lenexa, KS 66215  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.8700



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Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

## PRIVATE SANITARY SEWER PLAN AND PROFILE

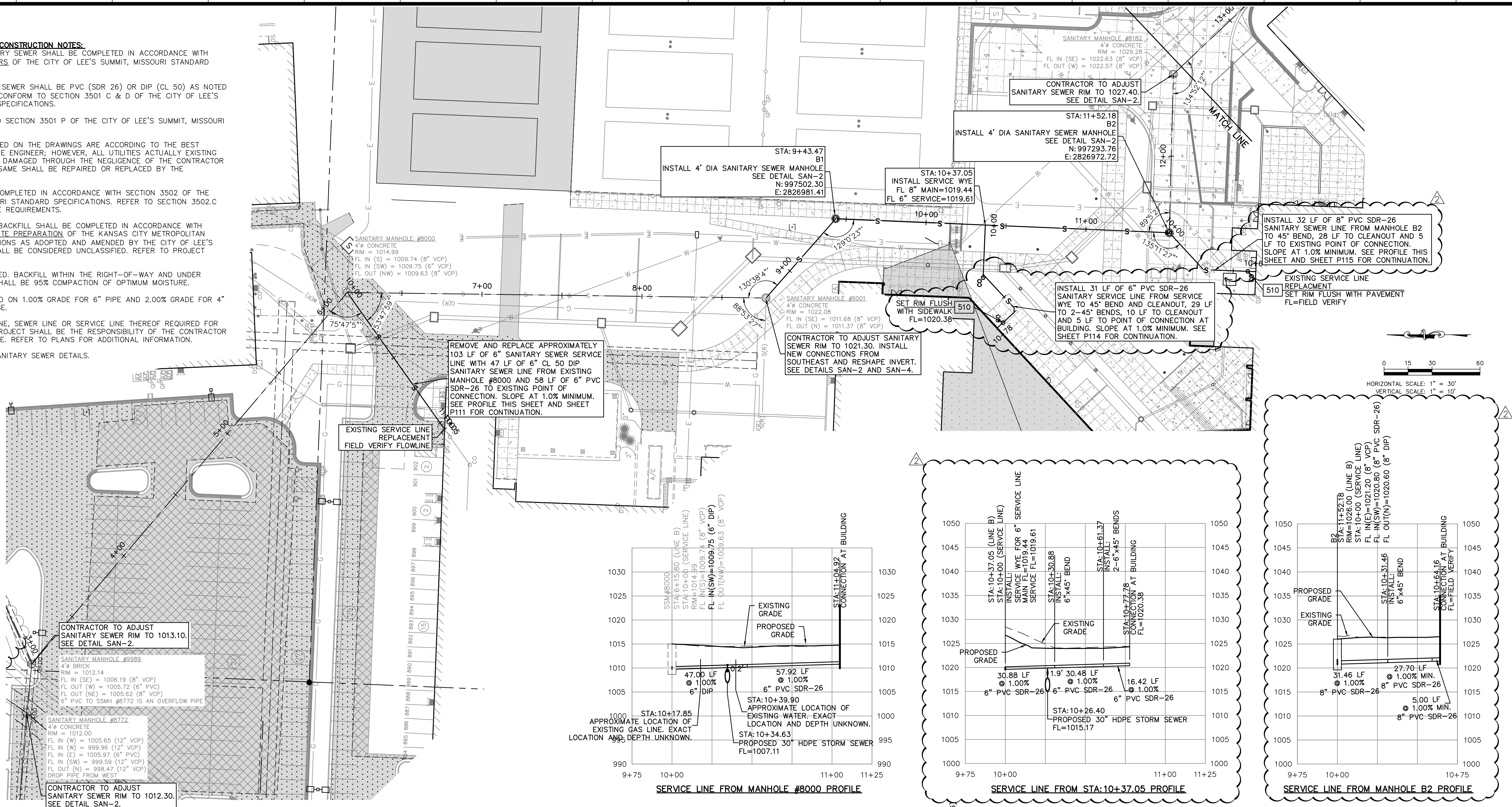
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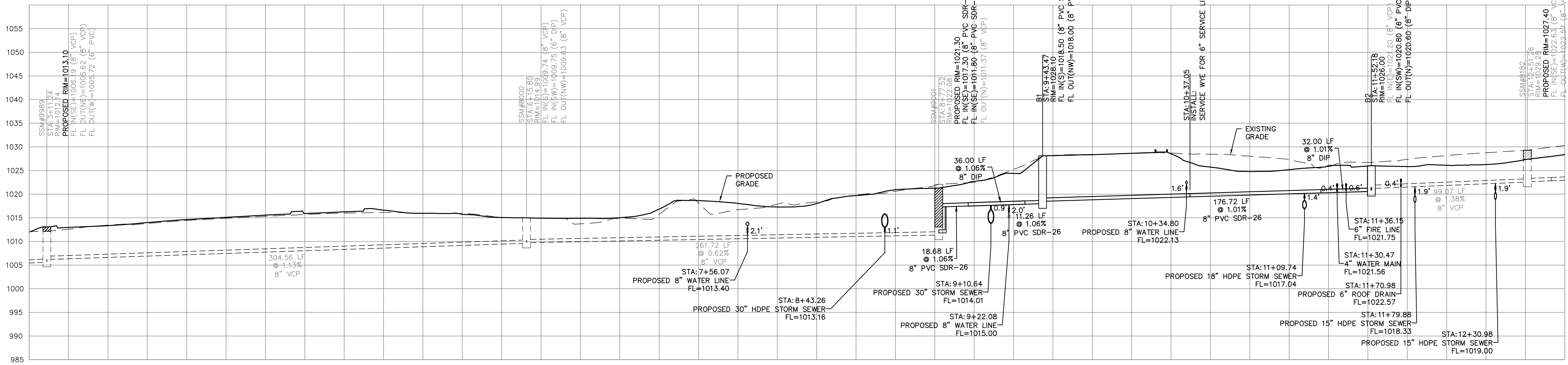


**SANITARY SEWER MATERIALS AND CONSTRUCTION NOTES:**

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- ALL BACKFILL SHALL BE TAMPED. BACKFILL WITHIN THE RIGHT-OF-WAY AND UNDER PARKING AREAS AND SLABS SHALL BE 95% COMPACTION OF OPTIMUM MOISTURE.
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- REFER TO SHEET C560 FOR SANITARY SEWER DETAILS.



PRIVATE SANITARY SEWER LINE B PLAN



PRIVATE SANITARY SEWER LINE B PROFILE

**WARRANTY / DISCLAIMER**

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PROJ. NO. C20-0496 DSN: DDW  
CFN: 0496SP.DWG DWN: NJN  
ENGINEER  
DAVID D. WOOD  
MO # 201037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66215  
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KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER  
ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF  
AUTHORITY # 000842. EXPIRES 12/31/21



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**Lee's Summit  
High School**

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Lee's Summit, MO 64063

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Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
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structural engineer:  
Bob D. Campbell & Company, Inc.  
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Kansas City, MO 64111  
816.531.4344

civil engineer:  
Kaw Valley Engineering  
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Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
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1801 Main St  
Kansas City, MO 64108  
816.663.5700

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Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

**REVISIONS**

Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
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RELEASE FOR  
CONSTRUCTION  
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DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

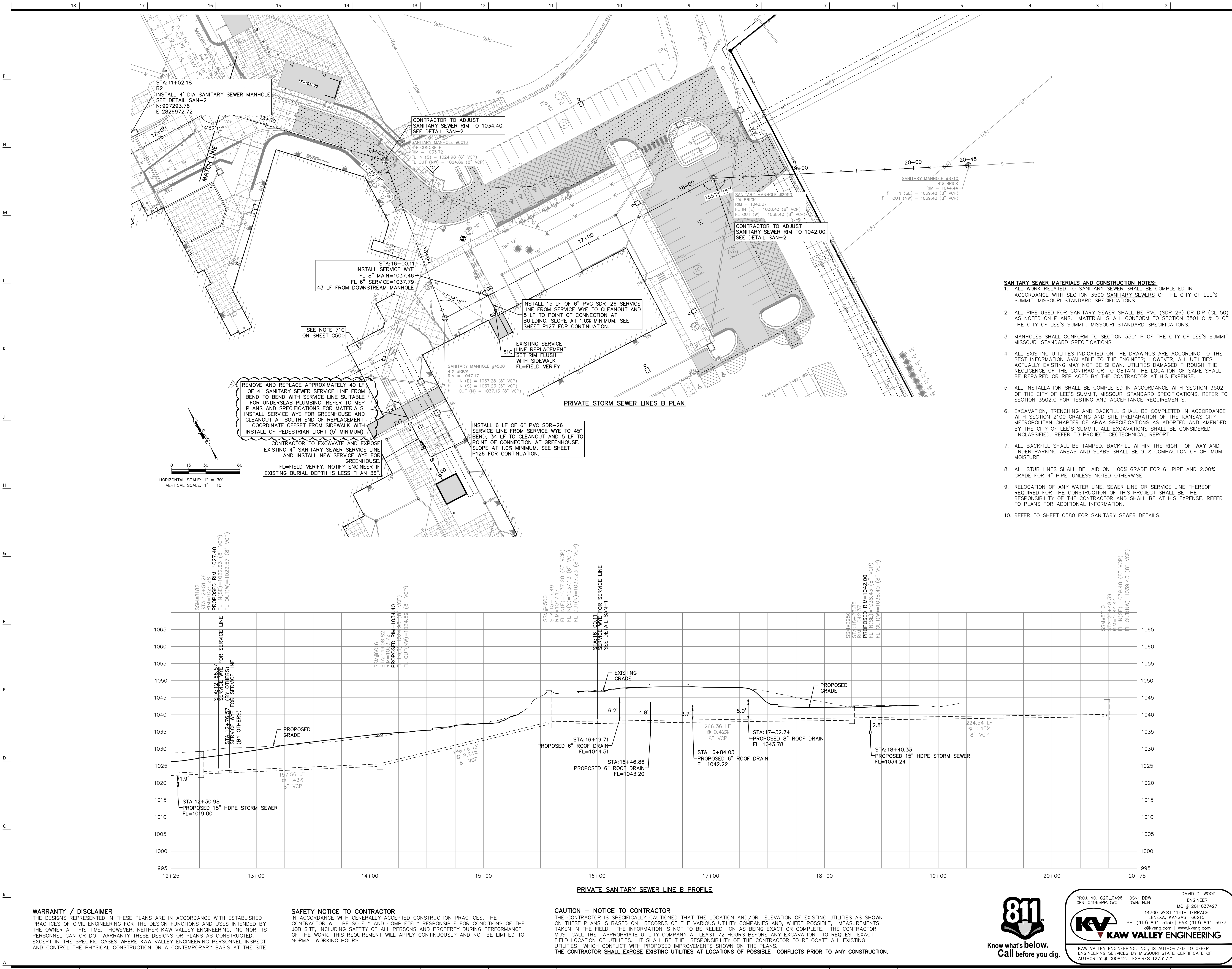
Package 2

**PRIVATE SANITARY SEWER  
PLAN AND PROFILE**

**C560**

Issued for Construction





**WARRANTY / DISCLAIMER**  
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CFN: 0496SPF.DWG DWN: NJN  
DAVID D. WOOD  
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14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66215  
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## Lee's Summit High School

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owner:  
Lee's Summit R-7 School District  
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architect:  
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structural engineer:  
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civil engineer:  
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Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.0700

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7. ALL BACKFILL SHALL BE TAMPED. BACKFILL WITHIN THE RIGHT-OF-WAY AND UNDER PARKING AREAS AND SLABS SHALL BE 95% COMPACTION OF OPTIMUM MOISTURE.
8. ALL STUB LINES SHALL BE LAID ON 1.00% GRADE FOR 6" PIPE AND 2.00% GRADE FOR 4" PIPE, UNLESS NOTED OTHERWISE.
9. RELOCATION OF ANY WATER LINE, SEWER LINE OR SERVICE LINE THEREOF REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT HIS EXPENSE. REFER TO PLANS FOR ADDITIONAL INFORMATION.
10. REFER TO SHEET C580 FOR SANITARY SEWER DETAILS.

UNLESS A PROFESSIONAL SEAL WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION



Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

### REVISIONS

Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

**RELEASE FOR CONSTRUCTION**  
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

## PRIVATE SANITARY SEWER PLAN AND PROFILE

# C570

Issued for Construction



## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

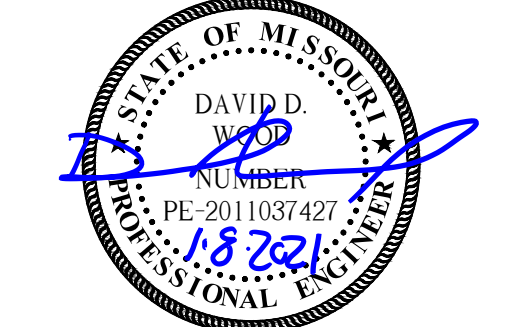
owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.gould-evans.com  
structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
Kaw Valley Engineering  
14700 West 114th Terrace  
Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.6700

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Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

Number	DESCRIPTION	DATE
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2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
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RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

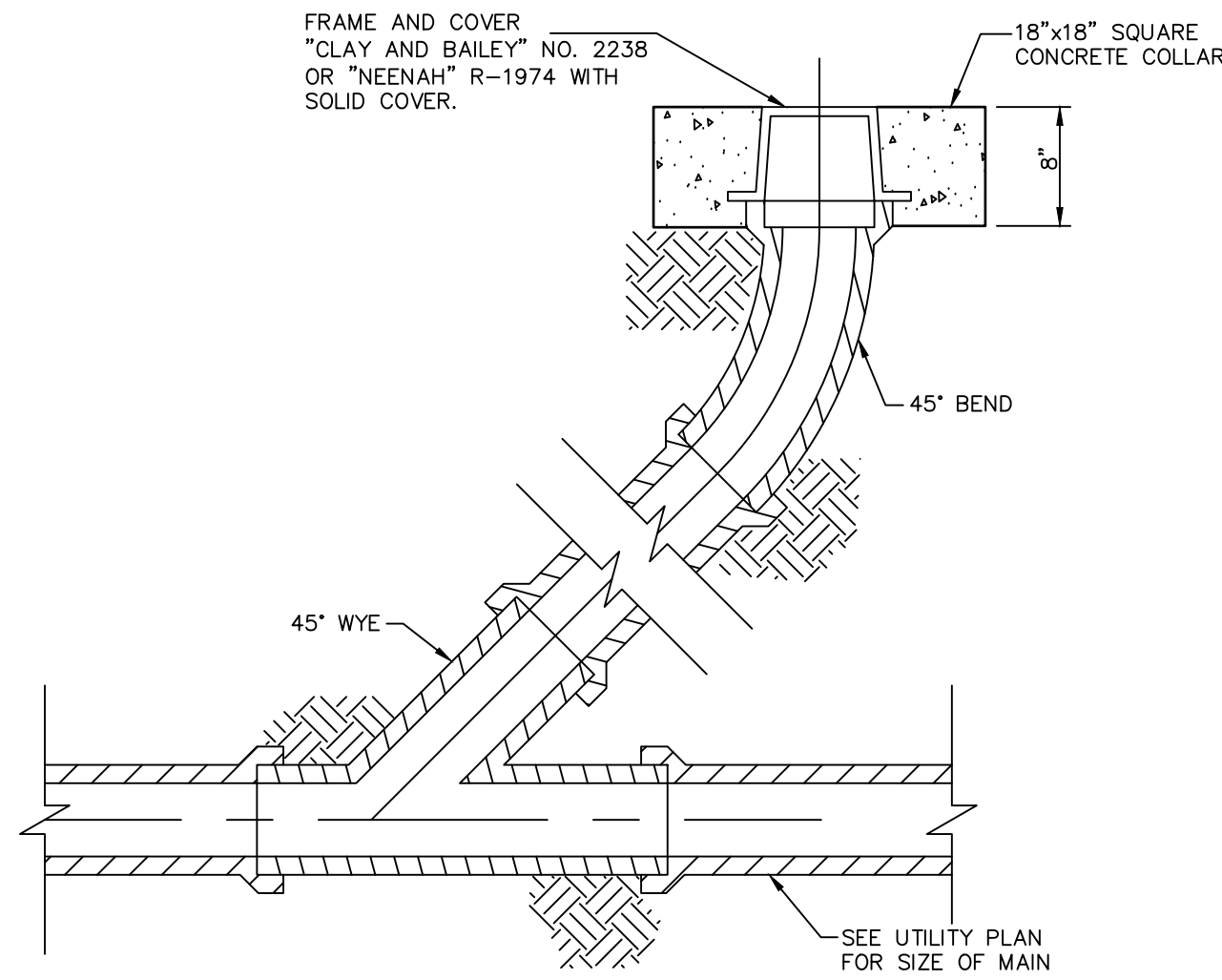
PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

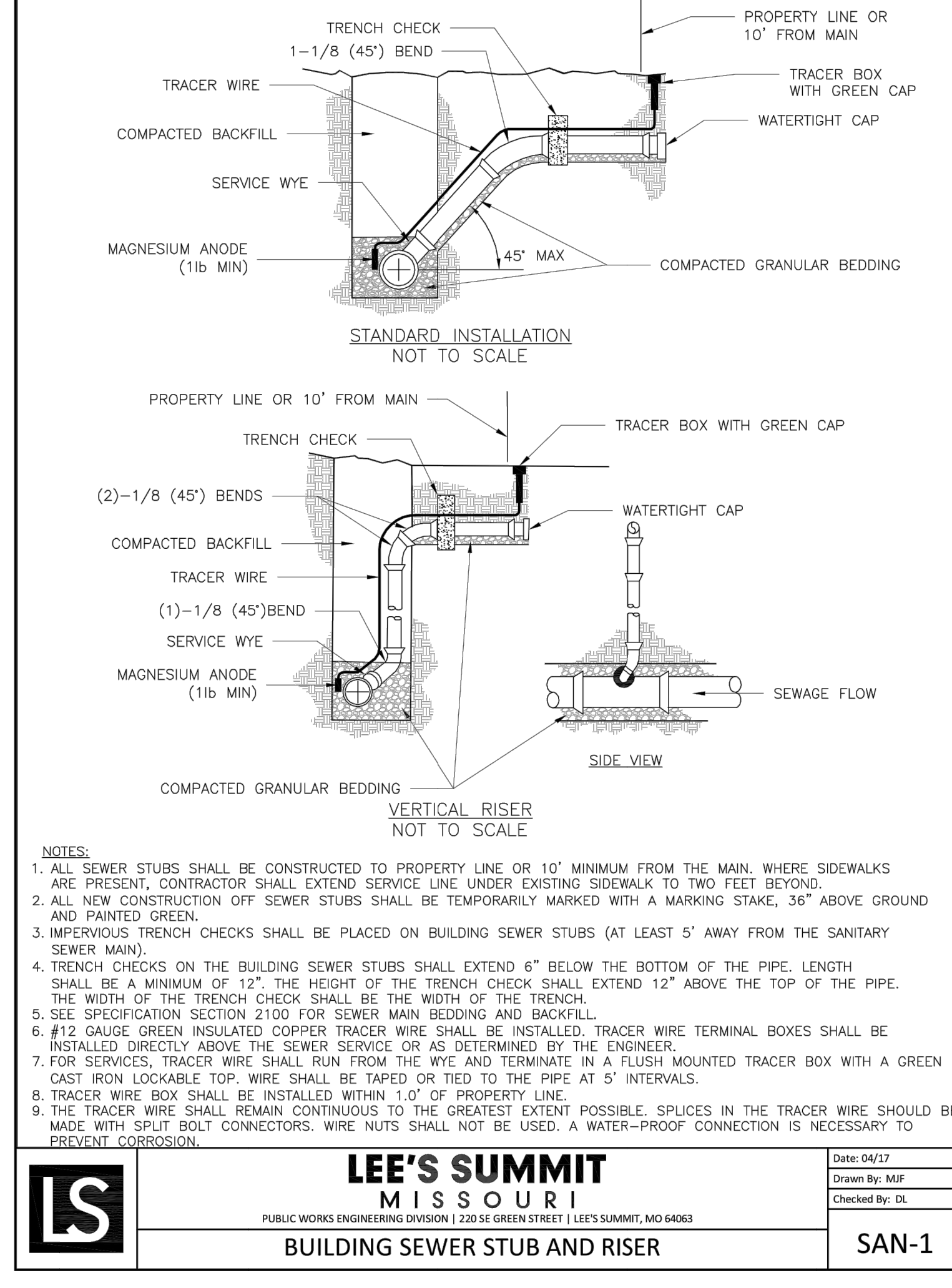
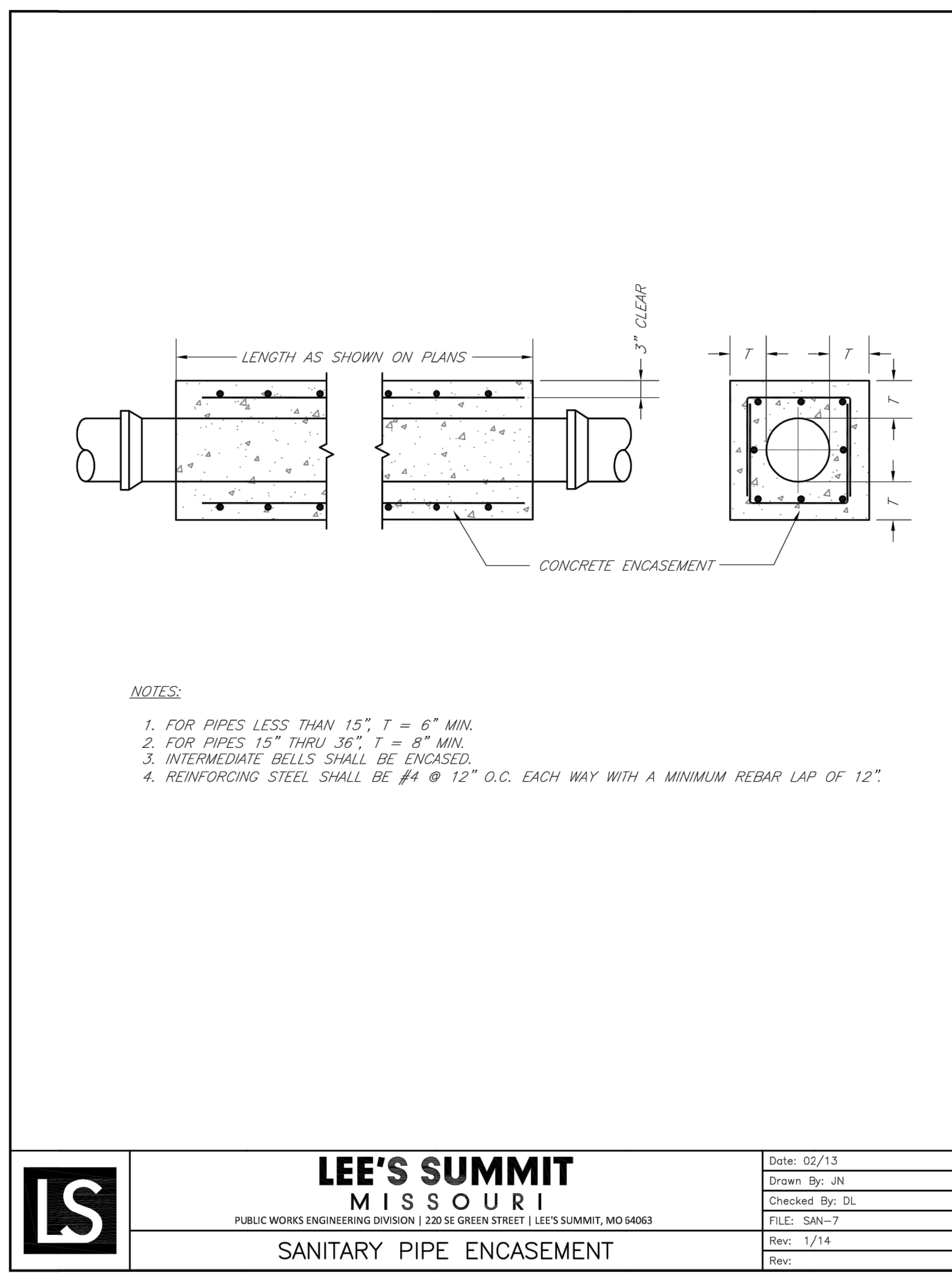
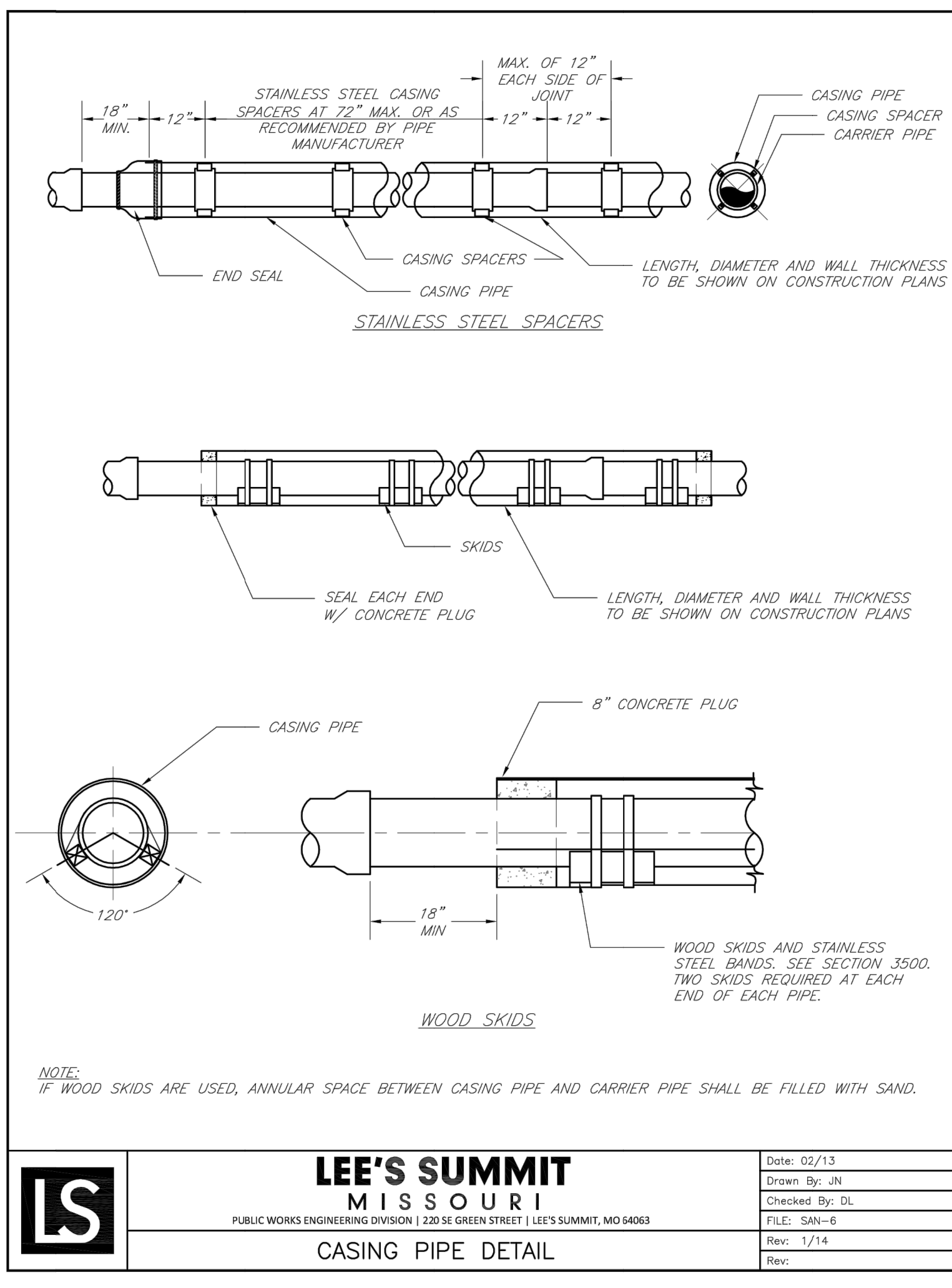
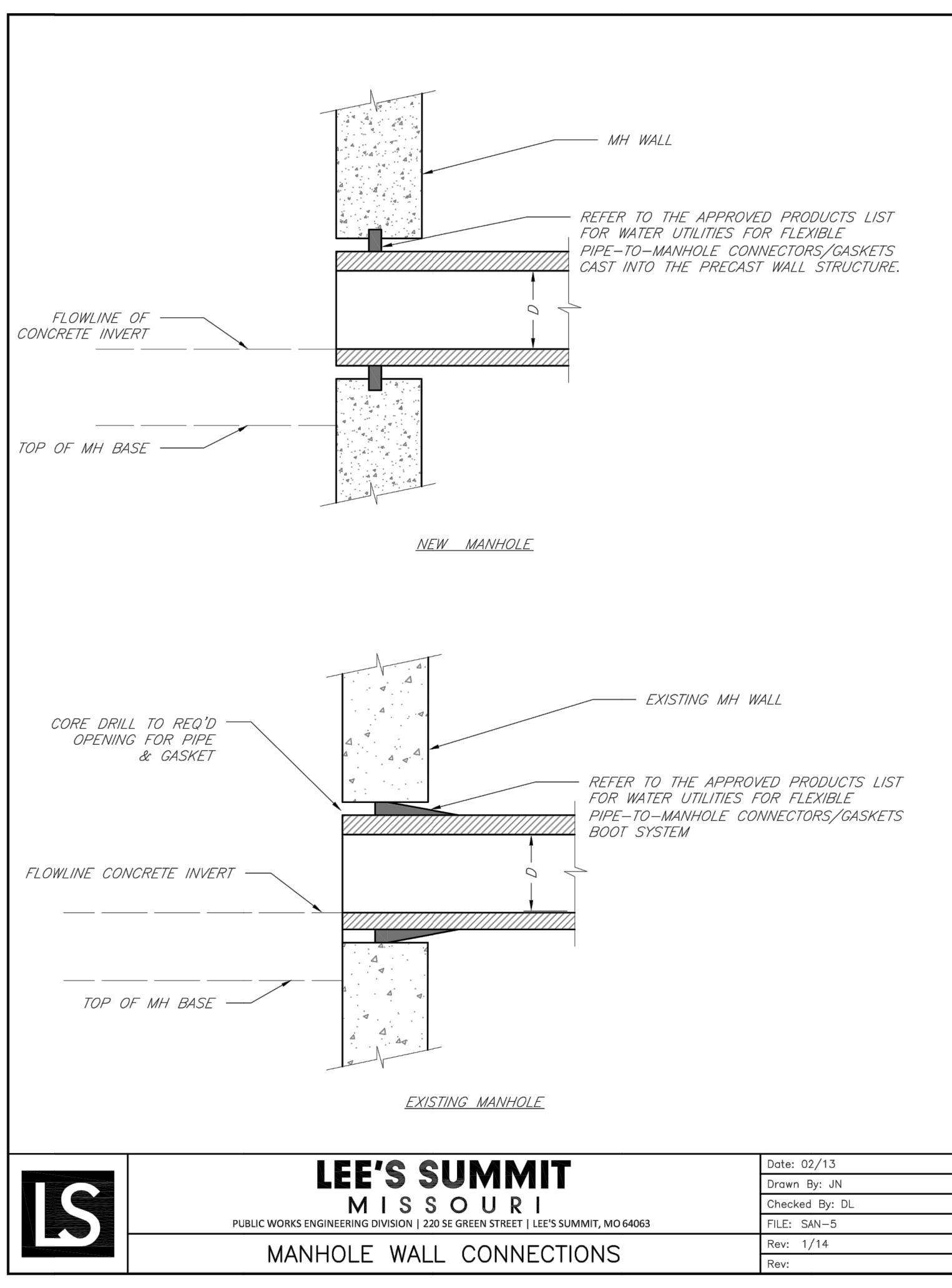
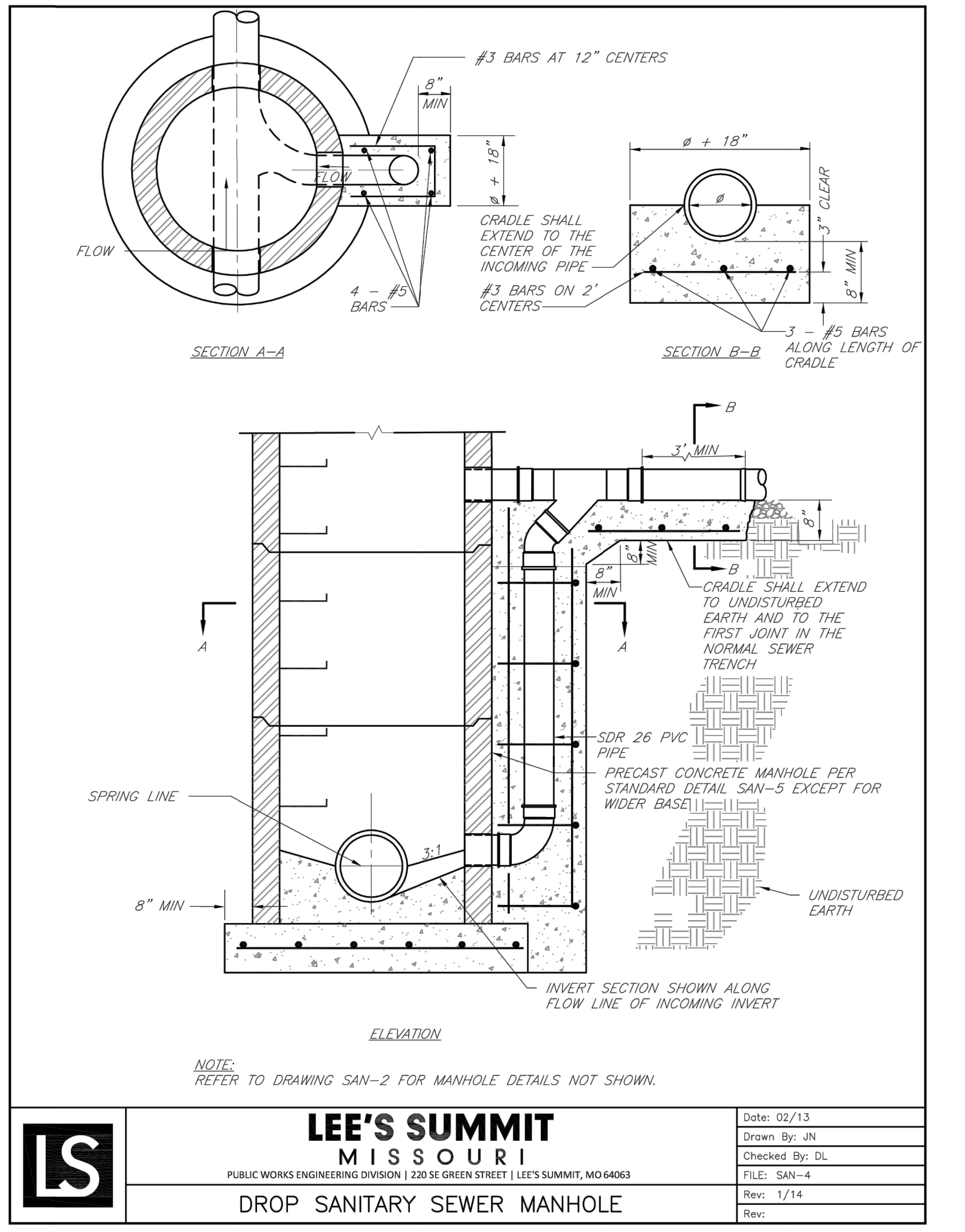
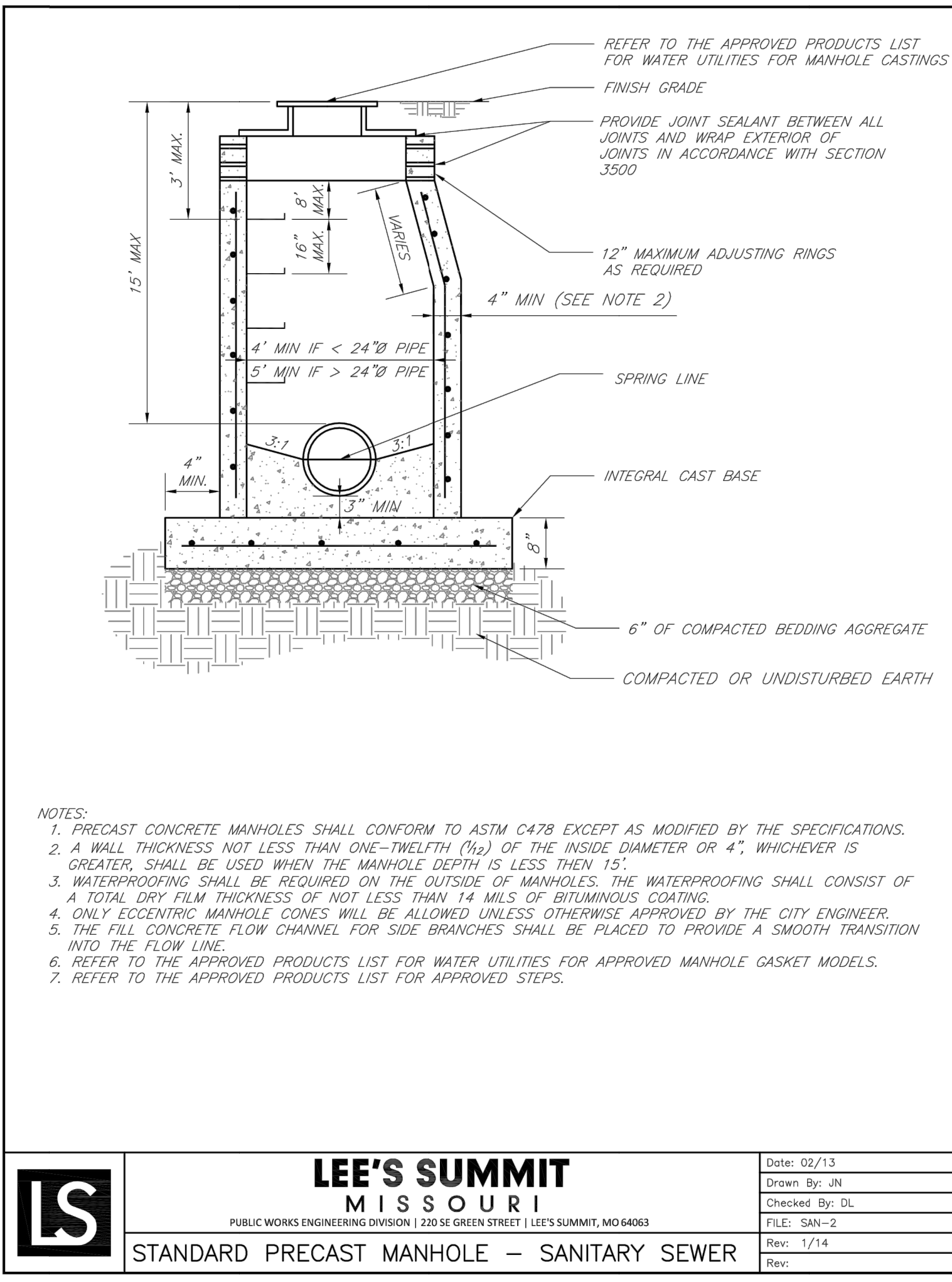
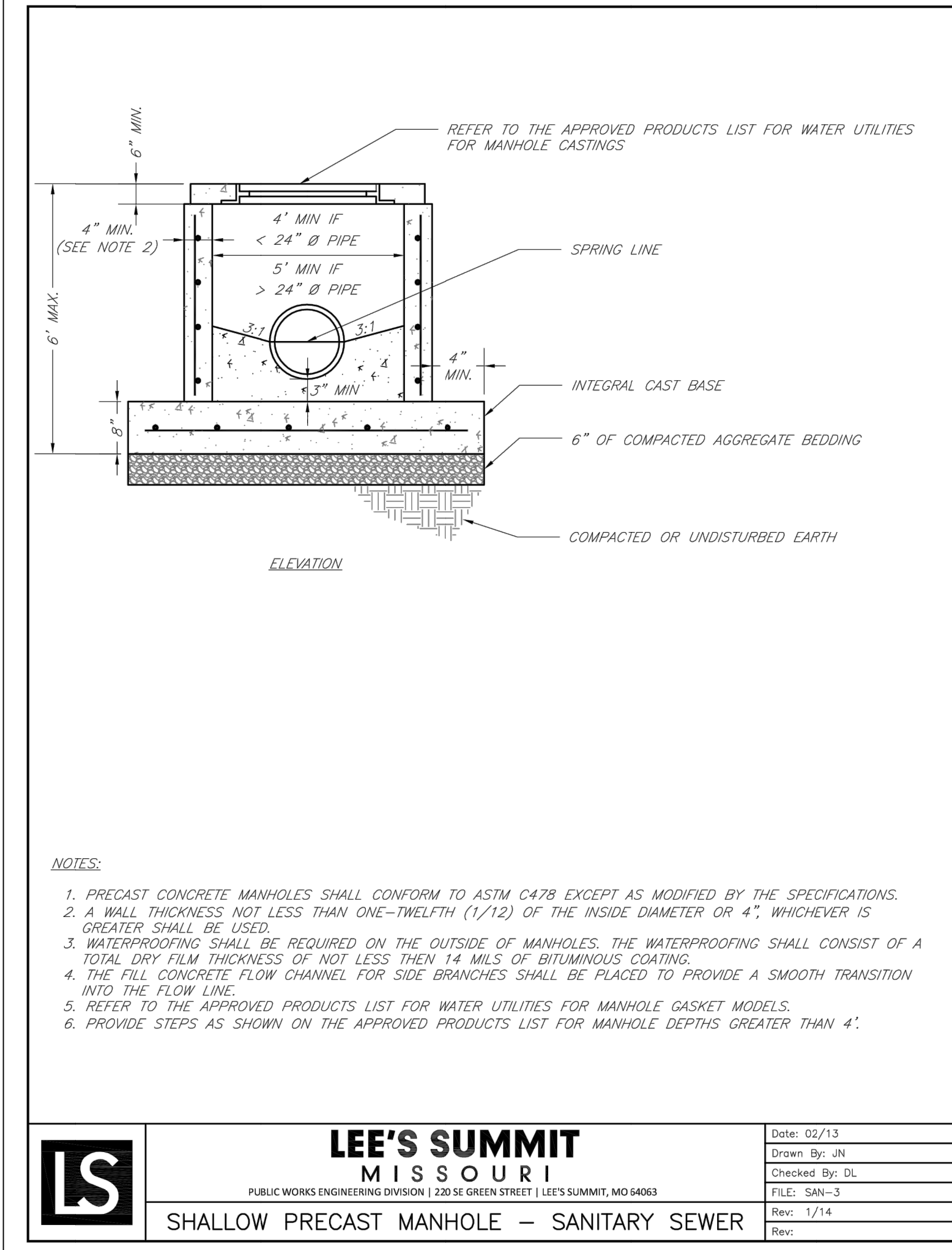
SANITARY SEWER DETAILS

C580

Issued for Construction

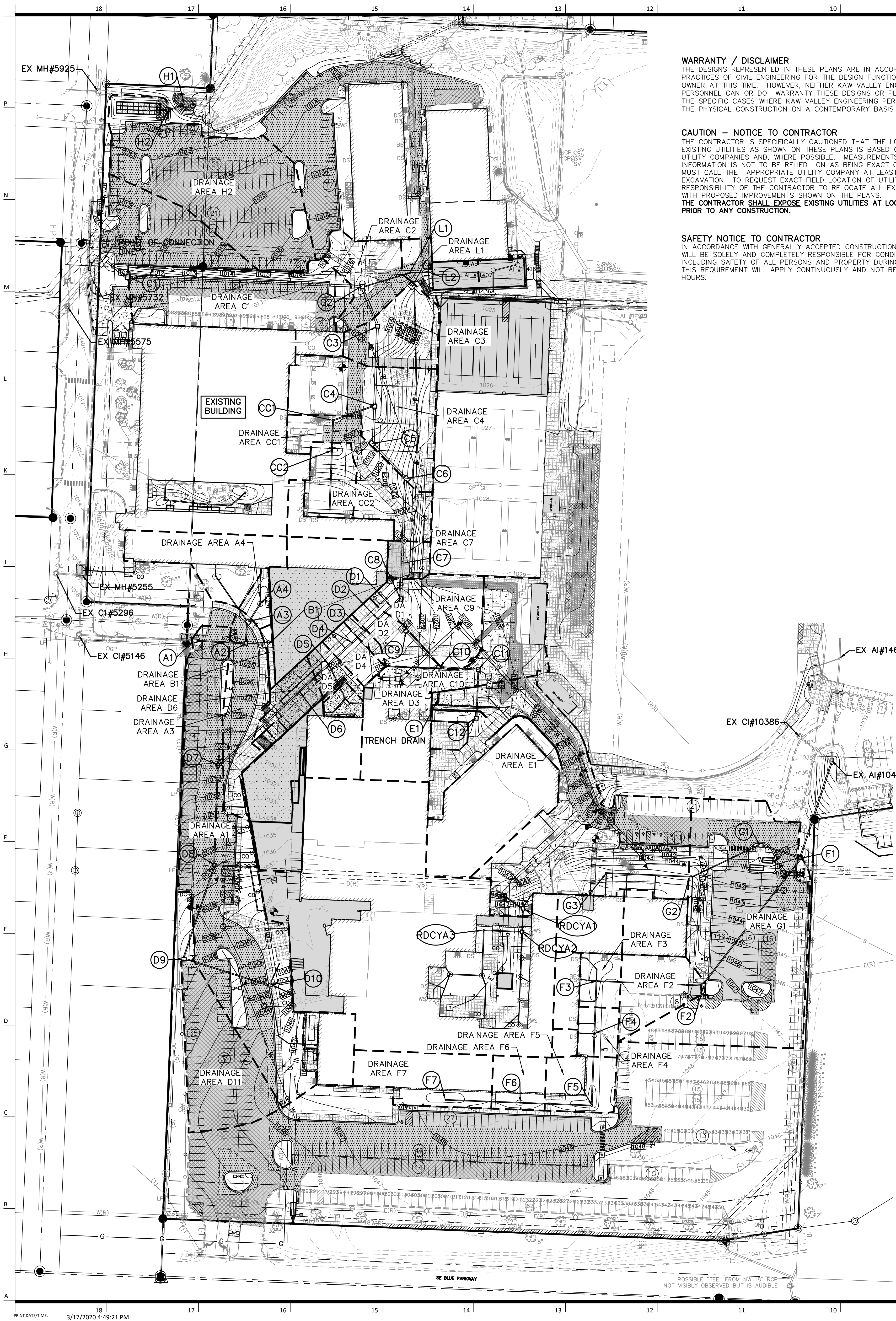


CLEAN-OUT 510



PROJ. NO. C20-0496  
CFN: 0496DET.DWG  
DSN: DDW  
DWN: NJN  
DAVID D. WOOD  
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MO # 2011037427  
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KAW VALLEY ENGINEERING  
KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER  
ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF  
AUTHORITY # 000842. EXPIRES 12/31/21





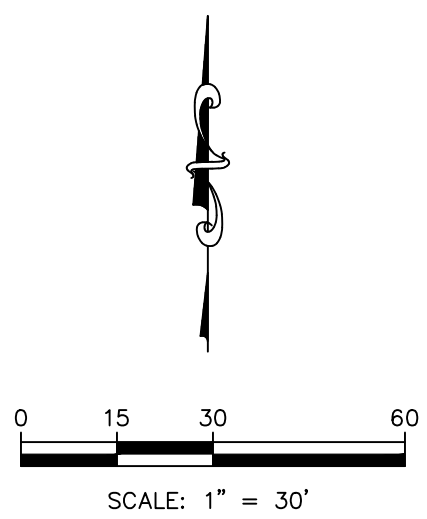
**WARRANTY / DISCLAIMER**  
THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC. NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

**CAUTION - NOTICE TO CONTRACTOR**  
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**THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.**

**SAFETY NOTICE TO CONTRACTOR**  
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

T<sub>c</sub> Calculations 11-13-2020  
e's Summit High School Addition and Renovation  
KVE Project # C2000496

Structure	Pipe	Design Storm (years)	Time of Concentration										Notes
			Tributary Area, A (ac)	Impervious Area	Runoff Coefficient, C	Total Distance	D1	Slope	Inlet Time (min)	D2	Travel Time (min)	Time of Concentration (min)	
A4	A4 - A3	10-year	0.04	0.01	0.45	30	30	2.5	4.7	0	0.0	4.7	5 Min Minimum
A3	A3 - A2	10-year	0.27	0.22	0.79	195	100	5.0	3.3	95	0.2	3.4	5 Min Minimum
A2	A2 - A1 #6375	10-year											
A1 #6375	A1 - C1 #5146	10-year	1.12	0.89	0.78	625	100	5.0	3.4	525	0.9	4.3	5 Min Minimum
A1	A1 - C1 #5146	10-year											
B1	B1 - A1	10-year											
C12	C12 - C11	10-year											
C11	C11 - C10	10-year											
C10	C10 - C9	10-year	0.60	0.57	0.87	180	100	2.0	3.3	80	0.1	3.4	5 Min Minimum
C9	C9 - C8	10-year	0.00	0.00	#DIV/0!	90	90	8.0	#DIV/0!	0	0.0	#DIV/0!	
C8	C8 - C7	10-year											
C7	C7 - C6	10-year	0.06	0.06	0.90	50	50	1.0	2.5	0	0.0	2.5	5 Min Minimum
C6	C6 - C5	10-year											
C5	C5 - C4	10-year											
C4	C4 - C3	10-year	0.46	0.16	0.51	120	100	15.0	4.3	20	0.0	4.3	5 Min Minimum
C3	C3 - C2	10-year	0.22	0.08	0.52	80	80	15.0	3.8	0	0.0	3.8	5 Min Minimum
C2	C2 - C1	10-year	0.20	0.11	0.63	80	80	6.0	2.0	0	0.0	2.0	5 Min Minimum
C1	C1 - INSERTA TEE 60" RCP	10-year	0.55	0.45	0.79	270	100	1.5	4.9	170	0.3	5.1	
CC2	CC2 - CC1	10-year											
CC1	CC1 - C4	10-year											
D10	D10 - D9	10-year											
D9	D9 - D8	10-year	0.37	0.37	0.90	220	100	6.0	3.0	120	0.2	3.2	5 Min Minimum
D8	D8 - D7	10-year											
D7	D7 - D6	10-year											
D6	D6 - D5	10-year	0.10	0.10	0.90	50	50	6.0	1.4	0	0.0	1.4	5 Min Minimum
D5	D5 - D4	10-year	0.06	0.05	0.80	50	50	6.0	2.1	0	0.0	2.1	5 Min Minimum
D4	D4 - D3	10-year	0.06	0.03	0.60	50	50	6.0	3.5	0	0.0	3.5	5 Min Minimum
D3	D3 - D2	10-year	0.05	0.02	0.54	50	50	6.0	3.9	0	0.0	3.9	5 Min Minimum
D2	D2 - D1	10-year	0.10	0.05	0.60	50	50	6.0	3.5	0	0.0	3.5	5 Min Minimum
D1	D1 - C9	10-year	0.29	0.07	0.44	50	50	6.0	4.6	0	0.0	4.6	5 Min Minimum
E1 (Dock Trench Drain)	E1 (Dock Trench Drain) - C11	10-year	1.15	0.69	0.66	460	100	5.0	4.6	360	0.6	5.2	
F7	F7 - F6	10-year	0.26	0.20	0.76	60	60	2.0	3.7	0	0.0	3.7	5 Min Minimum
F6	F6 - F5	10-year	0.11	0.08	0.74	30	30	2.0	2.8	0	0.0	2.8	5 Min Minimum
F5	F5 - F4	10-year	0.15	0.06	0.54	60	60	2.0	6.2	0	0.0	6.2	
F4	F4 - F3	10-year	0.08	0.00	0.30	30	30	2.0	6.3	0	0.0	6.3	
F3	F3 - F2	10-year	0.09	0.00	0.30	30	30	2.0	6.3	0	0.0	6.3	
F2	F2 - F1	10-year	0.19	0.09	0.58	100	100	2.0	7.4	0	0.0	7.4	
F1	F1 - A1 #10447	10-year											
G3	G3 - G2	10-year											
G2	G2 - G1	10-year											
G1	G1 - F1	10-year	1.14	1.00	0.83	340	100	4.0	3.1	240	0.4	3.5	5 Min Minimum



PROJ. NO. C20\_0496  
CFN: 0496DAM.DWG

DSN: DDW  
DWN: NUN

DAVID D. WOOD  
ENGINEER  
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**KV**  
KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/21



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phoenix • san francisco

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## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

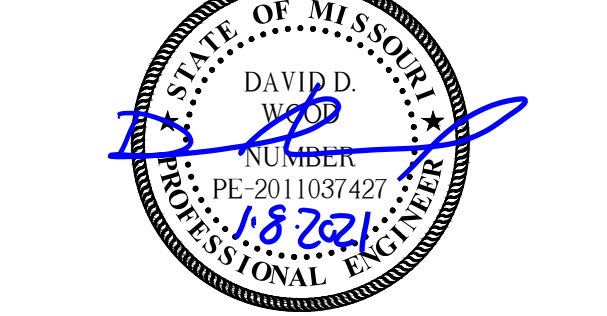
architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.gould-evans.com

structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
Kaw Valley Engineering  
14700 West 114th Terrace  
Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.5700

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Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
License No. PE-2011037427

REVISIONS		
Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR CONSTRUCTION  
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DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

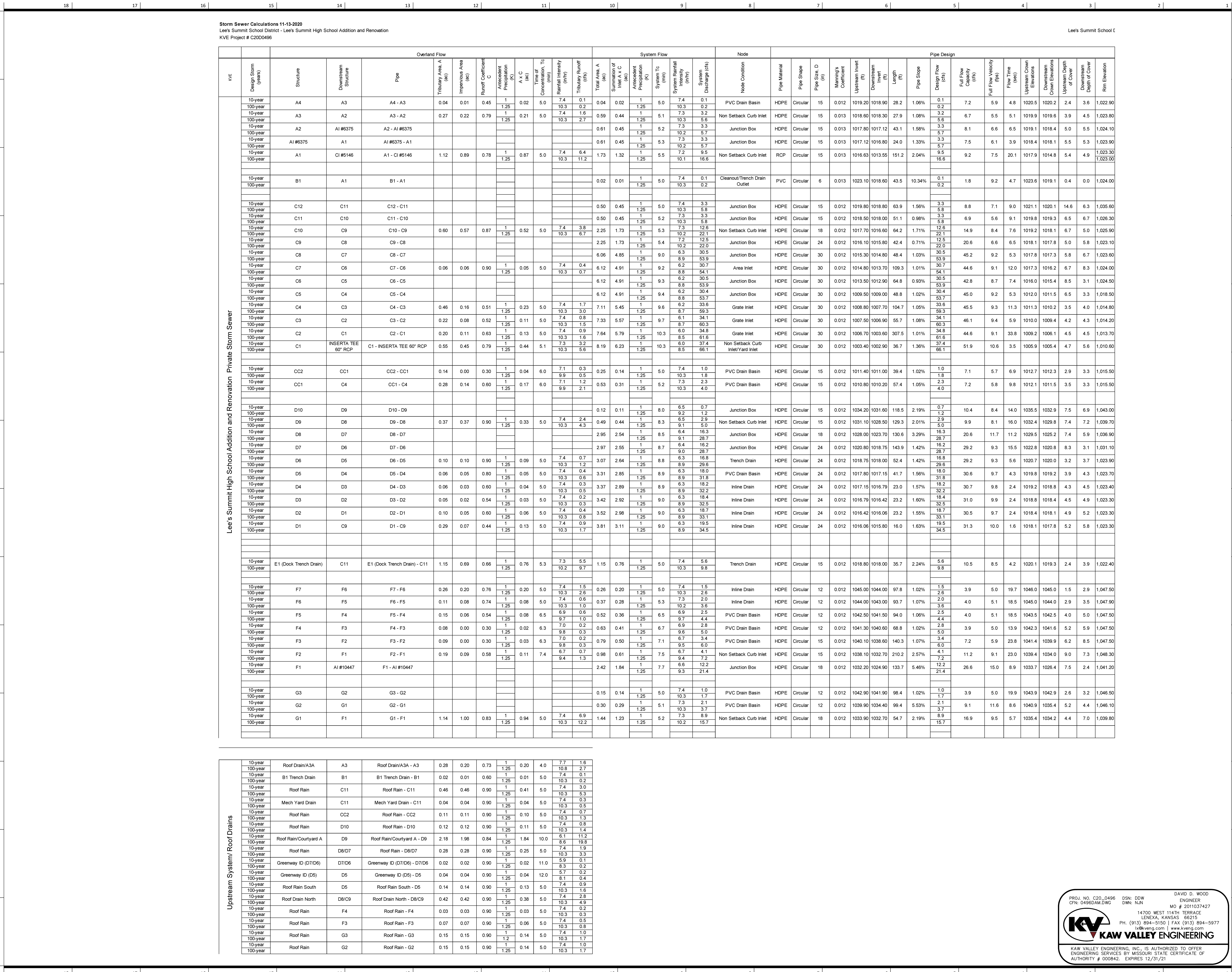
Package 2

DRAINAGE AREA MAP

# C600

Issued for Construction







## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

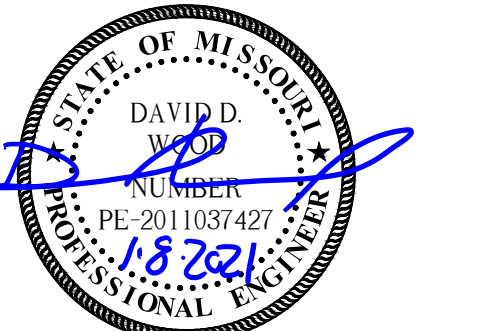
architect:  
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4200 Pennsylvania Avenue  
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RELEASE FOR  
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DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

### PRIVATE STORM SEWER PLAN AND PROFILE

# C610

Issued for Construction

### STORM SEWER CONSTRUCTION NOTES:

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 2600 STORM SEWER OF THE KANSAS CITY METRO CHAPTER OF APWA SPECIFICATIONS AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS. REFERENCE APWA SPECIFICATION SECTION 2102.4 FOR EXCAVATION, TRENCHING AND BACKFILLING FOR PIPE AND STORM STRUCTURES.
- A MINIMUM OF 18" COVER SHALL BE PROVIDED PRIOR TO AND MAINTAINED AFTER INSTALLATION OF STORM SEWER.
- ALL COORDINATES FOR CURB INLETS ARE TO THE MIDDLE OF THE INSIDE FRONT FACE. ALL COORDINATES FOR PVC STRUCTURES AND CONCRETE YARD INLETS ARE TO THE CENTER OF THE STRUCTURE.
- ALL JUNCTION BOXES/AREA INLETS HAVE ONE COORDINATE PROVIDED AT THE CENTER OF STRUCTURE. SEE PLAN FOR CLARIFICATION. ORIENT STRUCTURES PARALLEL TO ADJACENT CURB, BUILDING OR WALL FACE, UNLESS NOTED OTHERWISE.
- RIM ELEVATION IS PROVIDED AT COORDINATE, UNLESS NOTED OTHERWISE. CONTRACTOR TO ADJUST ELEVATION OF RIM AS REQUIRED TO MATCH SLOPE OF ADJACENT CURB LINE. REFER TO GRADING PLAN (C300 SERIES SHEETS).
- ALL EXISTING UTILITIES INDICATED ON THE DRAWING ARE ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER; HOWEVER, ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF SAME SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
- ALL BACKFILL SHALL BE COMPACTED TO 95 PERCENT STANDARD DENSITY AT OPTIMUM MOISTURE.
- ALL EXCAVATION BENEATH THE STREETS AND PARKING LOTS FOR DRAINAGE PIPE LESS THAN 4'-0" IN DIAMETER SHALL BE BACKFILLED WITH AGGREGATE TO FOUR FEET (4') PAST BACK OF CURB IN ACCORDANCE WITH APWA SPECIFICATIONS SECTION 2102.4.1.
- RELOCATION OF ANY WATER LINE, SEWER LINE OR SERVICE LINE THEREOF REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE AT THEIR EXPENSE.
- IF PRECAST STORM 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.
- ALL HDPE PIPE JOINTS SHALL BE WATER TIGHT.

### SAFETY NOTICE TO CONTRACTOR

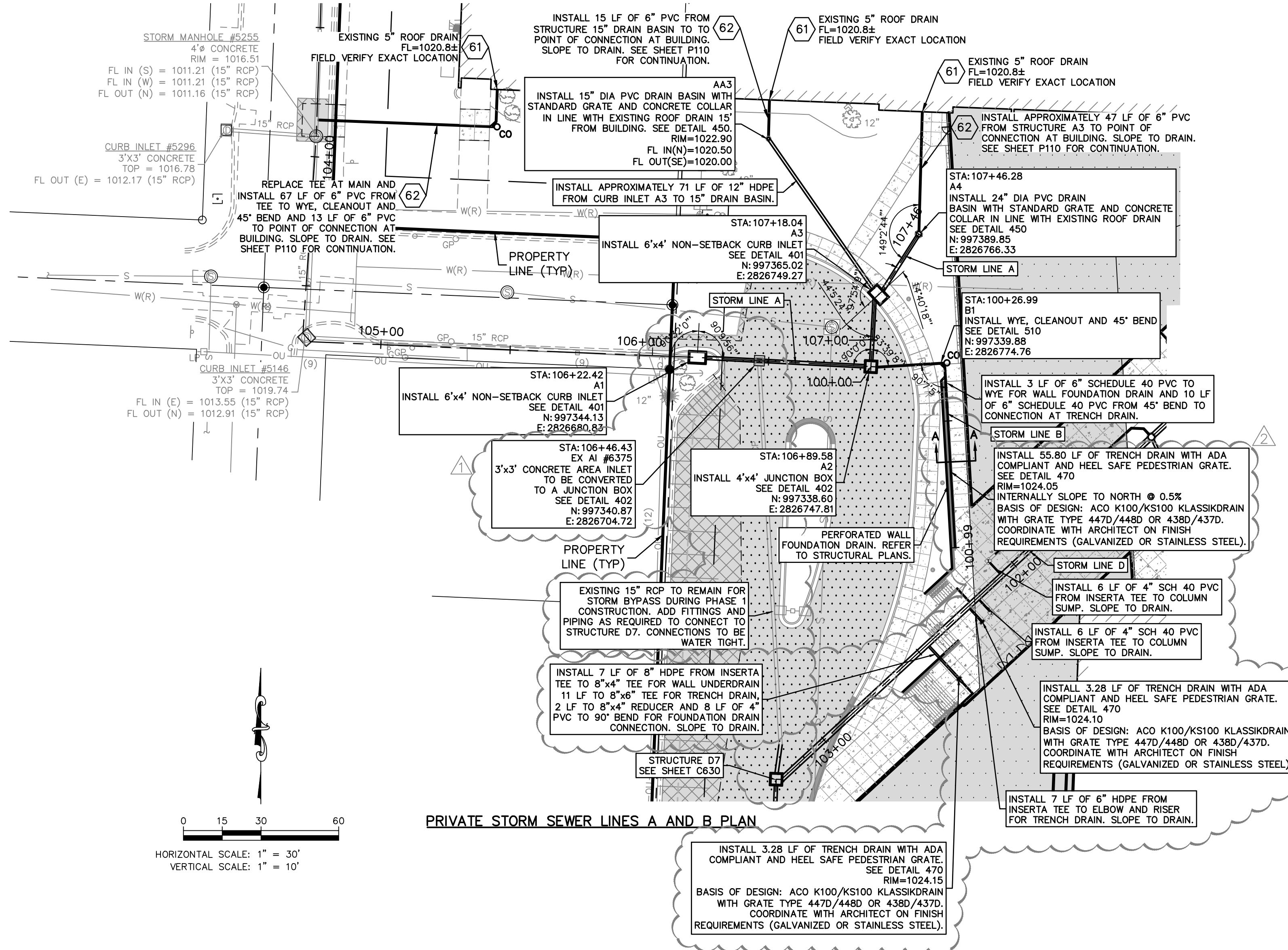
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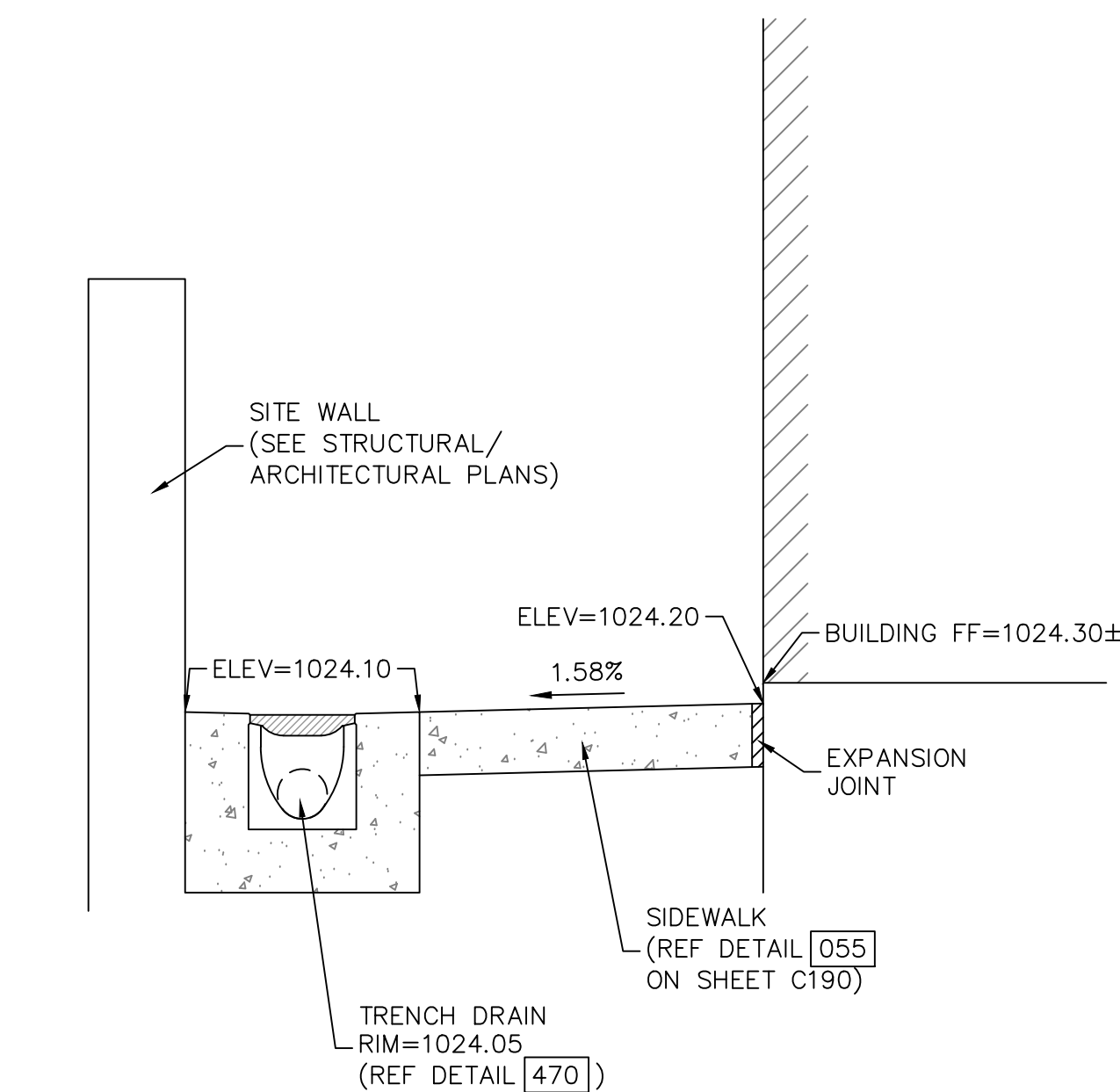
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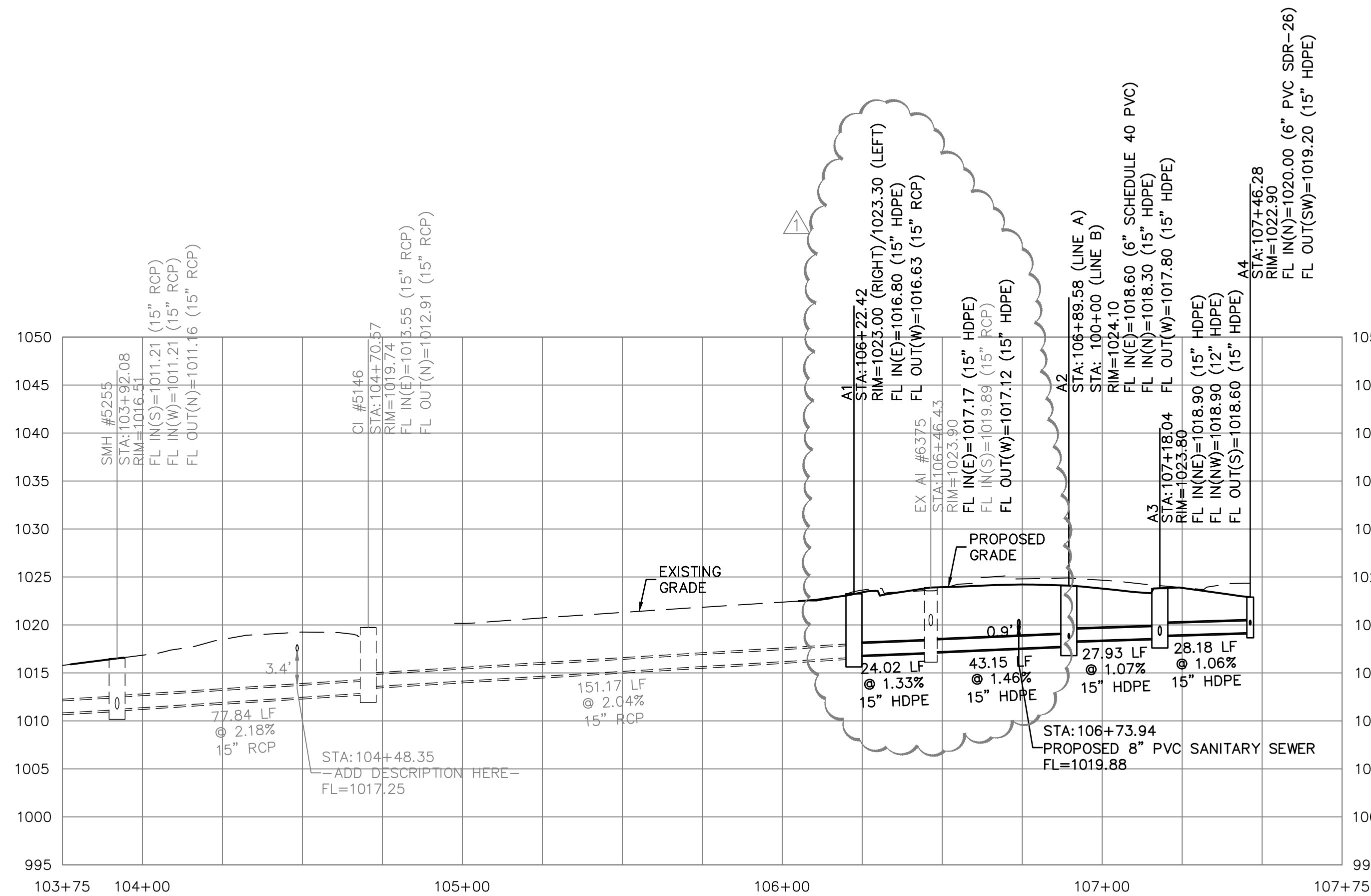


- DETAILS SEE SHEET C690 AND C695
- 401 NON-SETBACK CURB INLET
  - 402 JUNCTION BOX
  - 403 YARD INLET
  - 406 CONCRETE FLARED END SECTION WITH TOE WALL AND RIP RAP
  - 433 DOWNSPOUT COLLECTOR
  - 450 PVC DRAIN BASIN - CONTRACTOR TO ORDER INLETS ONE FOOT TALLER THAN PLAN ELEVATION SO INLET CAN BE FIELD ADJUSTED
  - 460 INLINE DRAIN
  - 470 TRENCH DRAIN
  - 510 CLEANOUT

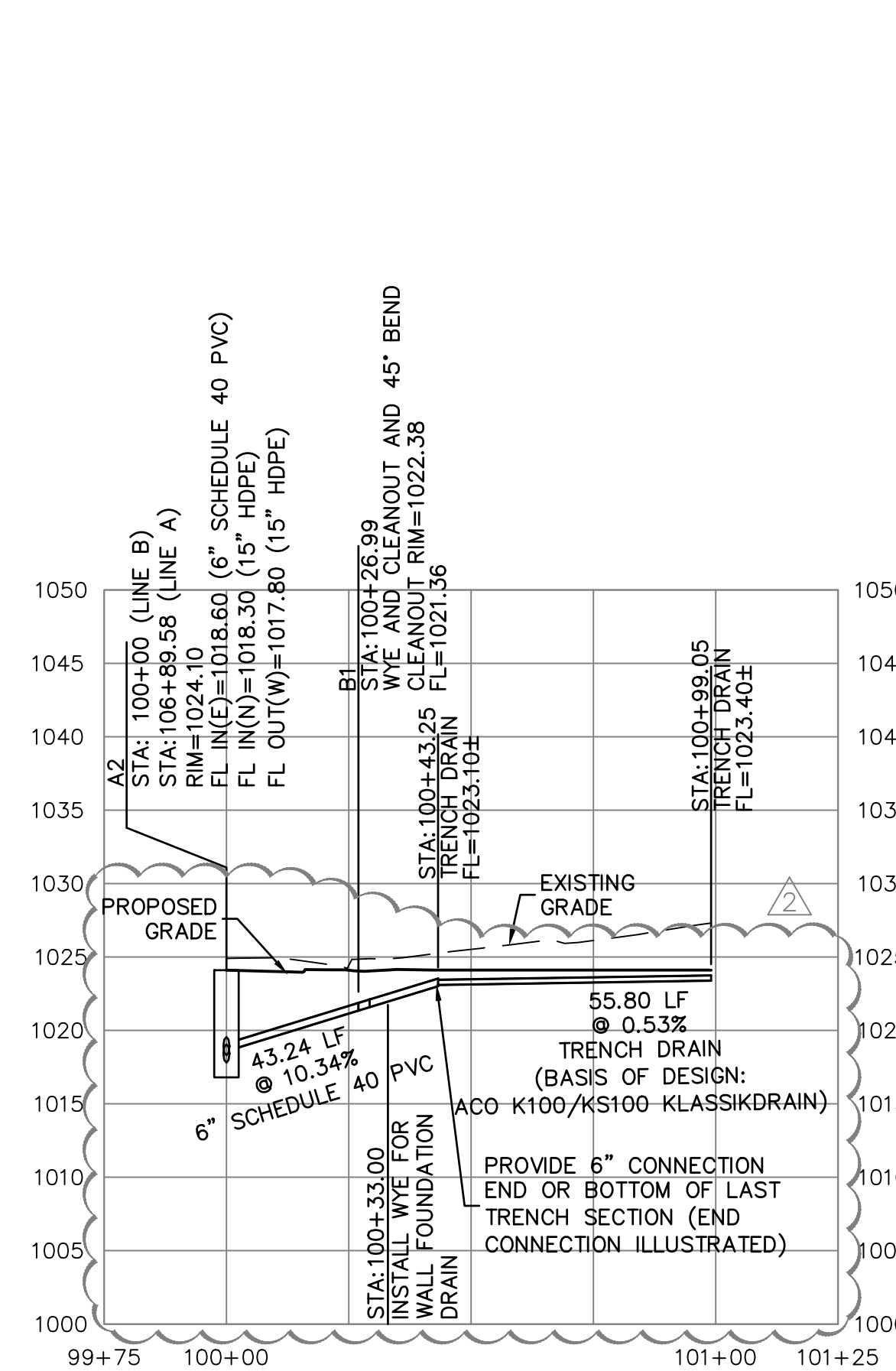
- NOTES
- 61 STORM SEWER POINT OF CONNECTION AT BUILDING REFER TO MEP PLANS
  - 62 PVC SDR-26 ROOF DRAIN, IF DRAIN IS LESS THAN 2' USE SCHEDULE 40 PVC FOR THE ENTIRE RUN. SLOPE TO DRAIN (1% MINIMUM FOR 6" AND LARGER ROOF DRAINS, 2% MINIMUM FOR 4" ROOF DRAINS)
  - 63 PVC STORM LINE AND TEE FOR FOUNDATION DRAIN. COORDINATE WITH ARCHITECTURAL PLANS FOR SIZE.



SECTION A-A



PRIVATE STORM SEWER LINE A PROFILE



PRIVATE STORM SEWER LINE B PROFILE

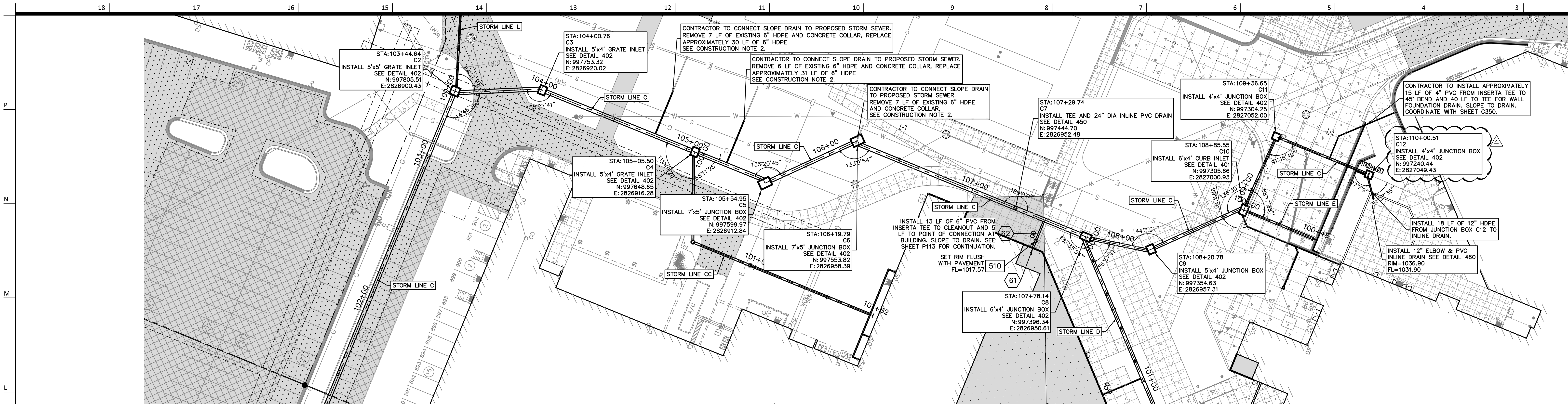


PROJ. NO. C20-0496 DSN: DDW DAVID D. WOOD  
CFN: 04960PP.DWG DWN: NUN ENGINEER  
MO # 2011037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66215  
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AUTHORITY # 000842. EXPIRES 12/31/21





PRIVATE STORM SEWER LINES C PLAN

DETAILS SEE SHEET C690 AND C695

- 401 NON-SETBACK CURB INLET
- 402 JUNCTION BOX/GRATE INLET
- 403 YARD INLET
- 406 CONCRETE FLARED END SECTION WITH TOE WALL AND RIP RAP
- 433 DOWNSPOUT COLLECTOR
- 450 PVC DRAIN BASIN - CONTRACTOR TO ORDER INLETS. ONE FOOT TALLER THAN PLAN ELEVATION SO INLET CAN BE FIELD ADJUSTED
- 460 INLINE DRAIN
- 470 TRENCH DRAIN
- 510 CLEANOUT

#### NOTES

- 61 STORM SEWER POINT OF CONNECTION AT BUILDING REFER TO MEP PLANS
- 62 PVC SDR-26 ROOF DRAIN. IF DRAIN IS LESS THAN 2' USE SCHEDULE 40 PVC FOR THE ENTIRE RUN. SLOPE TO DRAIN (1% MINIMUM FOR 6" AND LARGER ROOF DRAINS, 2% MINIMUM FOR 4" ROOF DRAINS)
- 63 PVC STORM LINE AND TEE FOR FOUNDATION DRAIN. COORDINATE WITH ARCHITECTURAL PLANS FOR SIZE.

#### SAFETY NOTICE TO CONTRACTOR

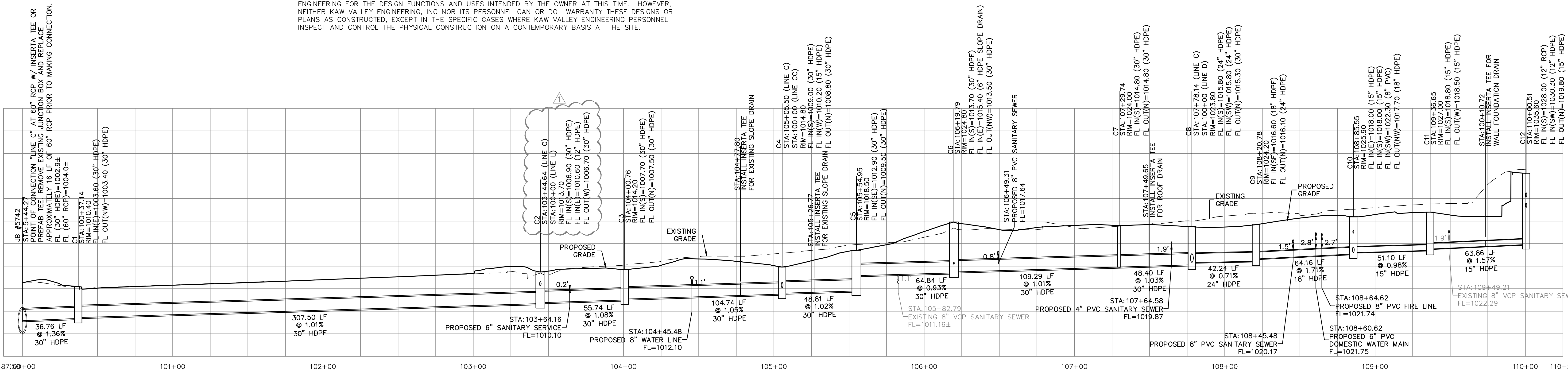
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PRIVATE STORM SEWER LINE C PROFILE

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## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

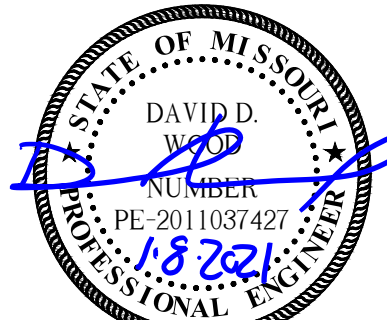
architect:  
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4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.gould-evans.com

structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
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civil engineer:  
Kaw Valley Engineering  
14700 West 114th Terrace  
Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.5700

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Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

#### REVISIONS

Number	DESCRIPTION	DATE
1	ADDENDUM #1	11-19-2020
2	PER CITY COMMENTS AND COORDINATION WITH PACKAGE 2	12-15-2020
3	PER CITY COMMENTS	12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI  
01/14/2021

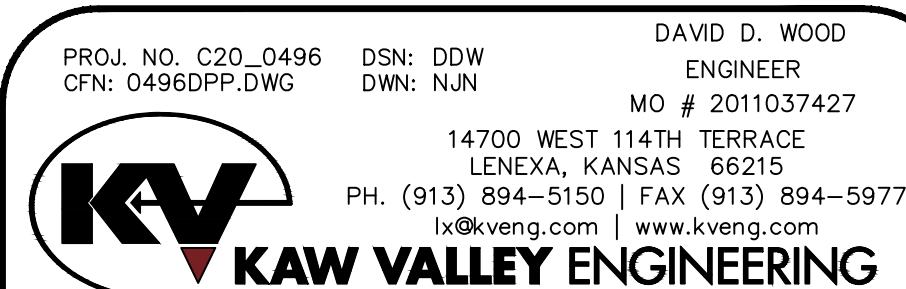
PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

#### PRIVATE STORM SEWER PLAN AND PROFILE

C620

Issued for Construction



KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/21



Lee's Summit  
High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

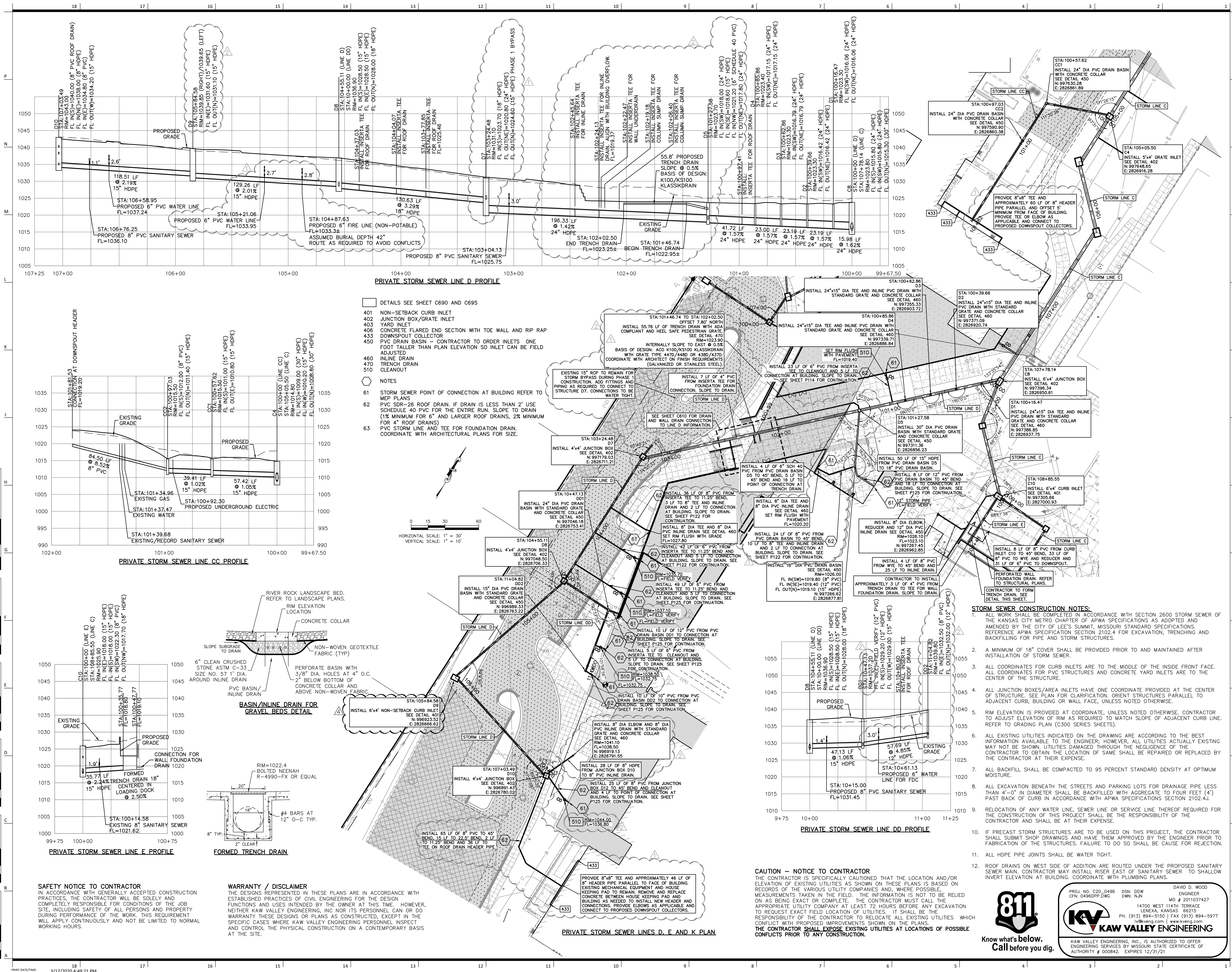
owner:  
**Lee's Summit R-7 School District**  
301 NE Tudor Road  
Lee's Summit, MO 64086

architect:  
**Gould Evans**  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
[www.gouldevans.com](http://www.gouldevans.com)

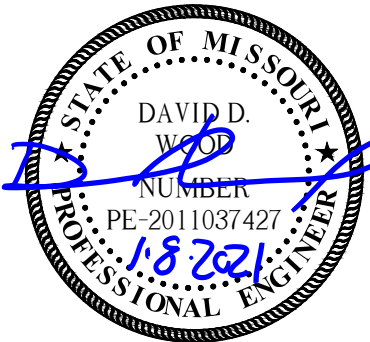
**Bob D. Campbell & Company, Inc.**  
4338 Belleview  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
**Kaw Valley Engineering**  
14700 West 114th Terrace  
Lenexa, KS 66215  
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## REVISIONS

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RELEASE FOR  
CONSTRUCTION  
NOTED ON PLANS RE  
VELOPMENT SERVI  
E'S SUMMIT, MISSO  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

## Package 2

# PRIVATE STORM SEWER PLAN AND PROFILE

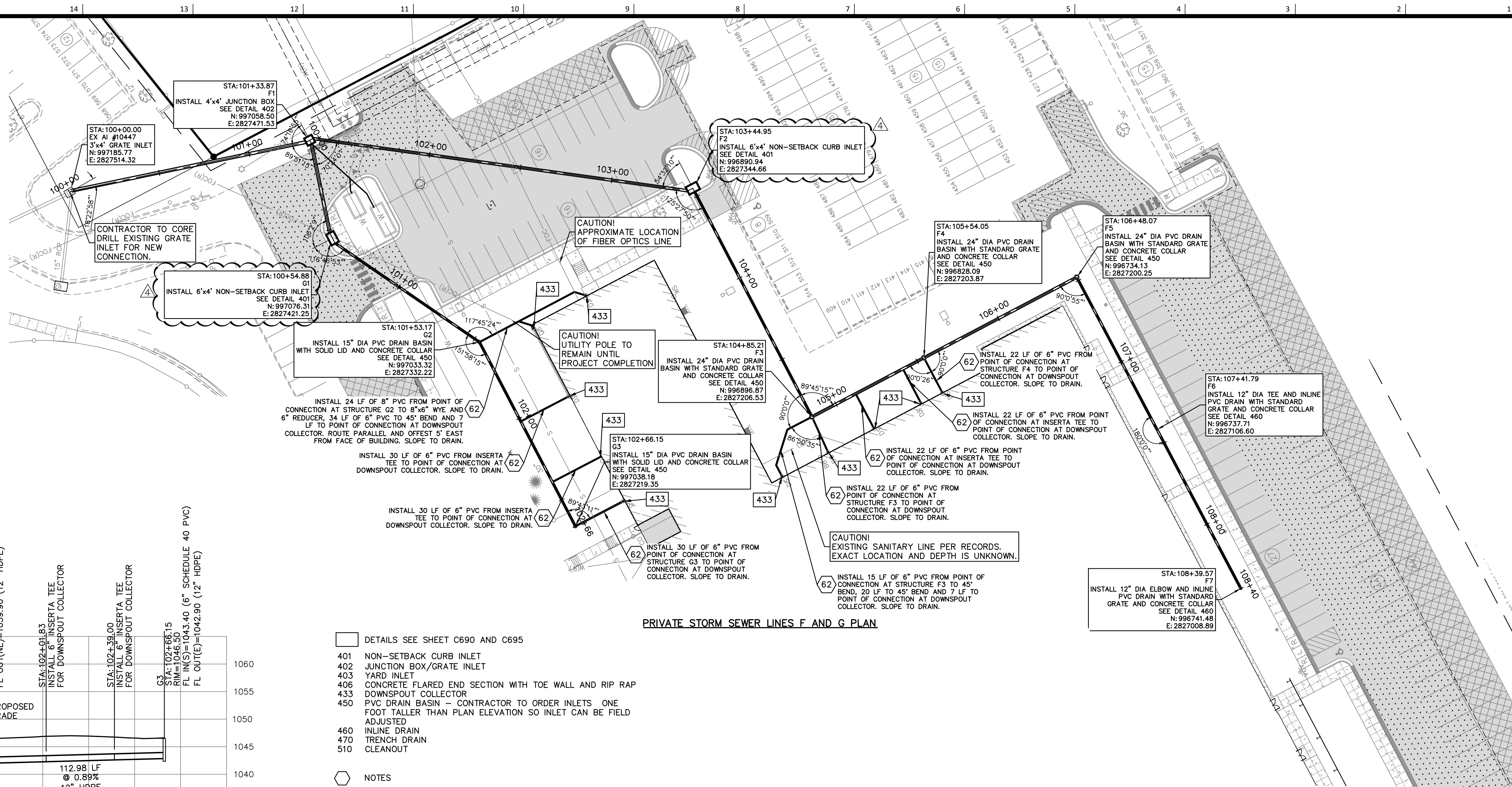
# C630

Issued for Construction



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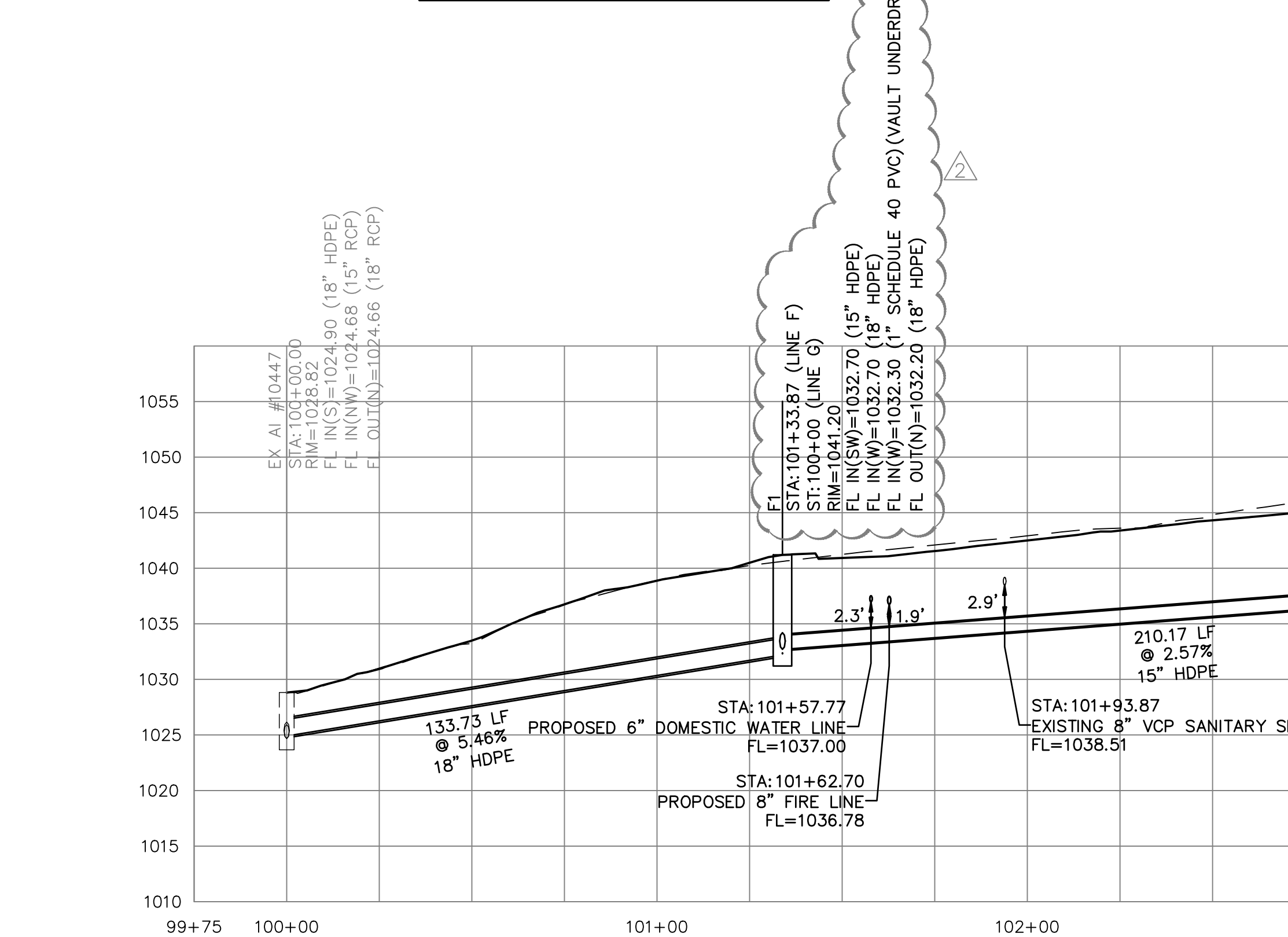


PRIVATE STORM SEWER LINES F AND G PLAN

- DETAILS SEE SHEET C690 AND C695
- 401 NON-SETBACK CURB INLET
  - 402 JUNCTION BOX/GRATE INLET
  - 403 YARD INLET
  - 406 CONCRETE FLARED END SECTION WITH TOE WALL AND RIP RAP
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PRIVATE STORM SEWER LINE G PROFILE



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PROJ. NO. C20\_0496  
CFN: 04960PP.DWG  
DSN: DDW  
DWN: NJN  
DAVID D. WOOD  
ENGINEER  
MO # 201037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66215  
PH. (913) 694-5150 | FAX (913) 694-5977  
info@kveeng.com | www.kveeng.com

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## Lee's Summit High School

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Lee's Summit, MO 64063

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architect:  
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Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

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4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1	1-8-2021

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

## PRIVATE STORM SEWER PLAN AND PROFILE

# C640

Issued for Construction



# Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

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Lee's Summit R-7 School District  
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**RELEASE FOR  
CONSTRUCTION**  
AS NOTED AND REVIEWED  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

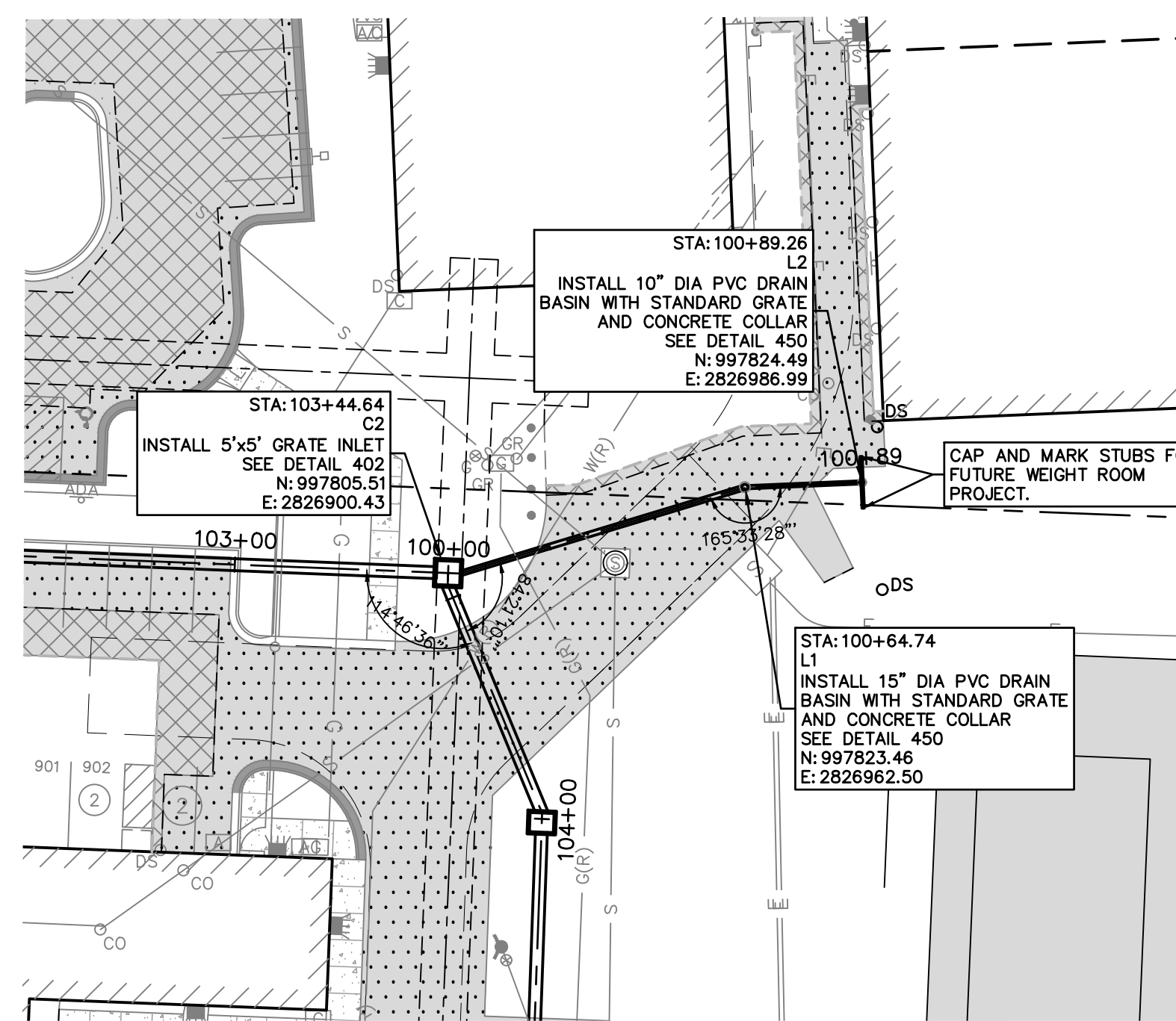
PROJECT NO: 0119-0100  
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Package 2

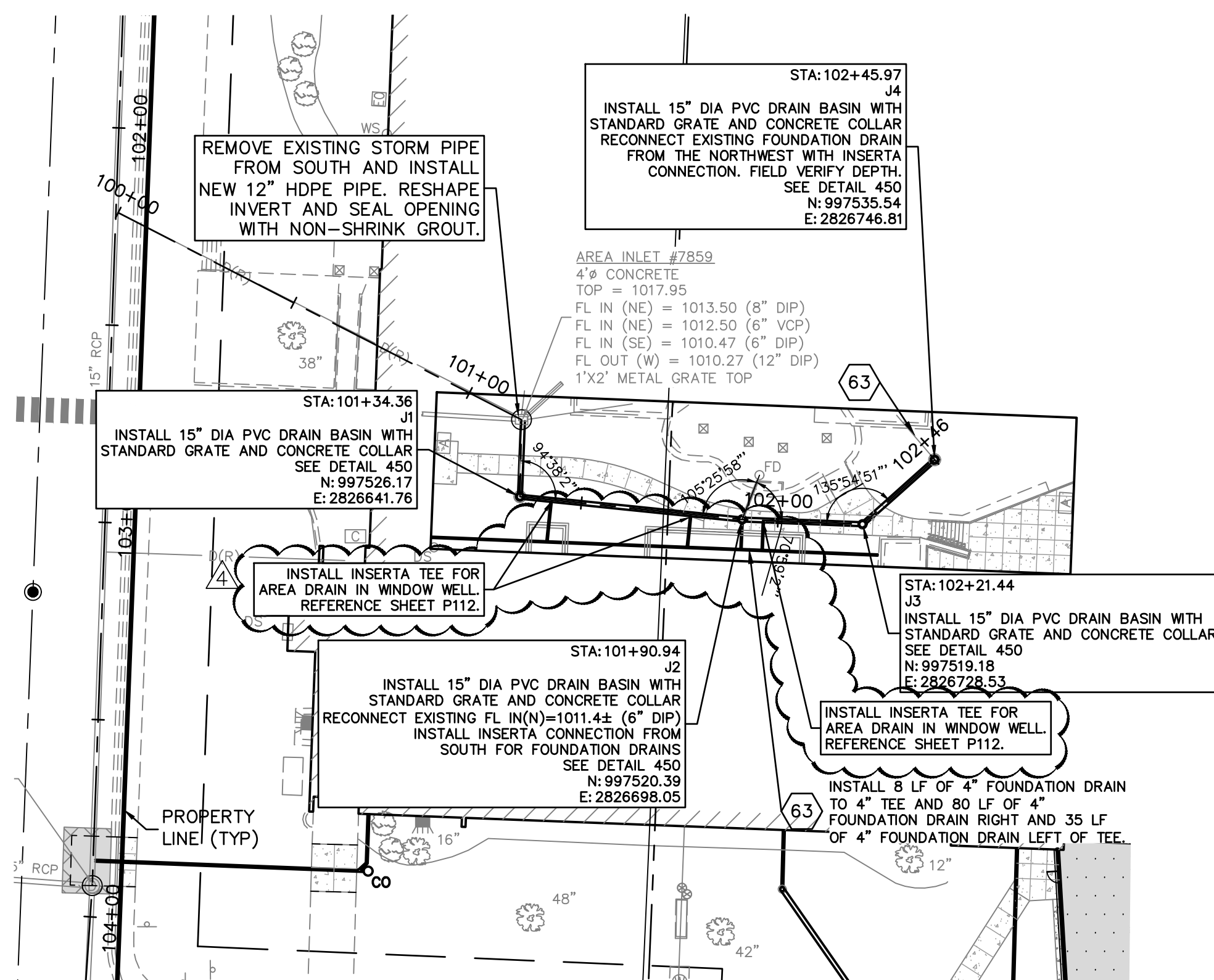
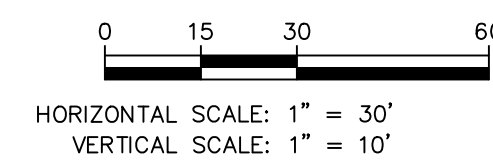
## PRIVATE STORM SEWER PLAN AND PROFILE

C650

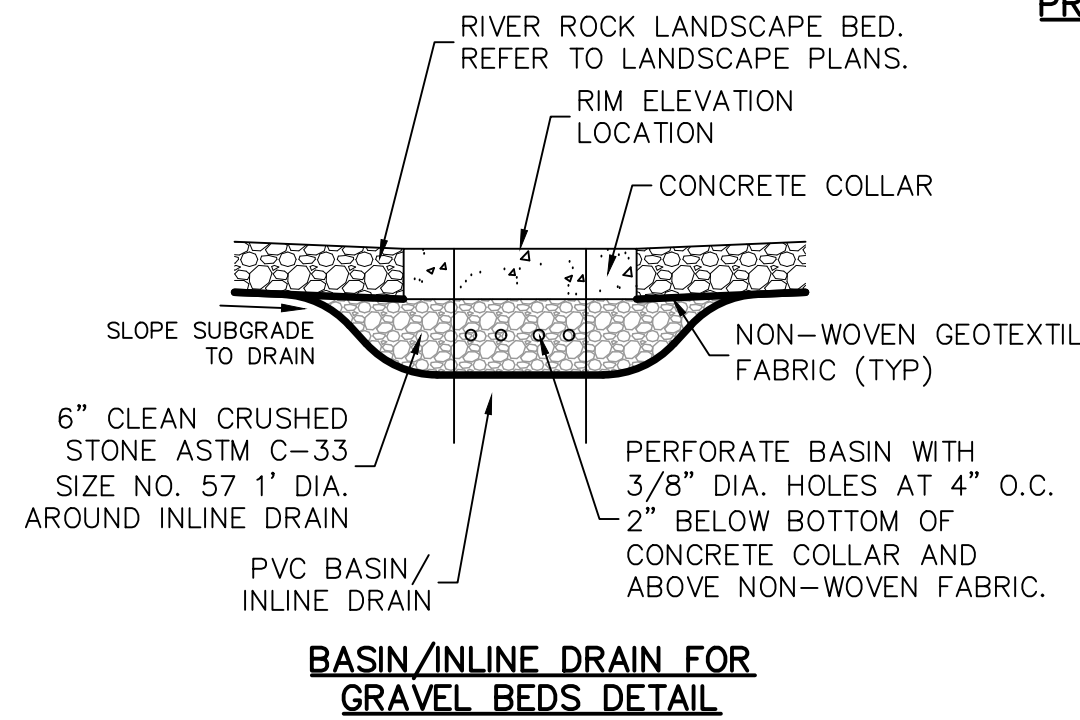
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PRIVATE STORM SEWER LINE I PLAN

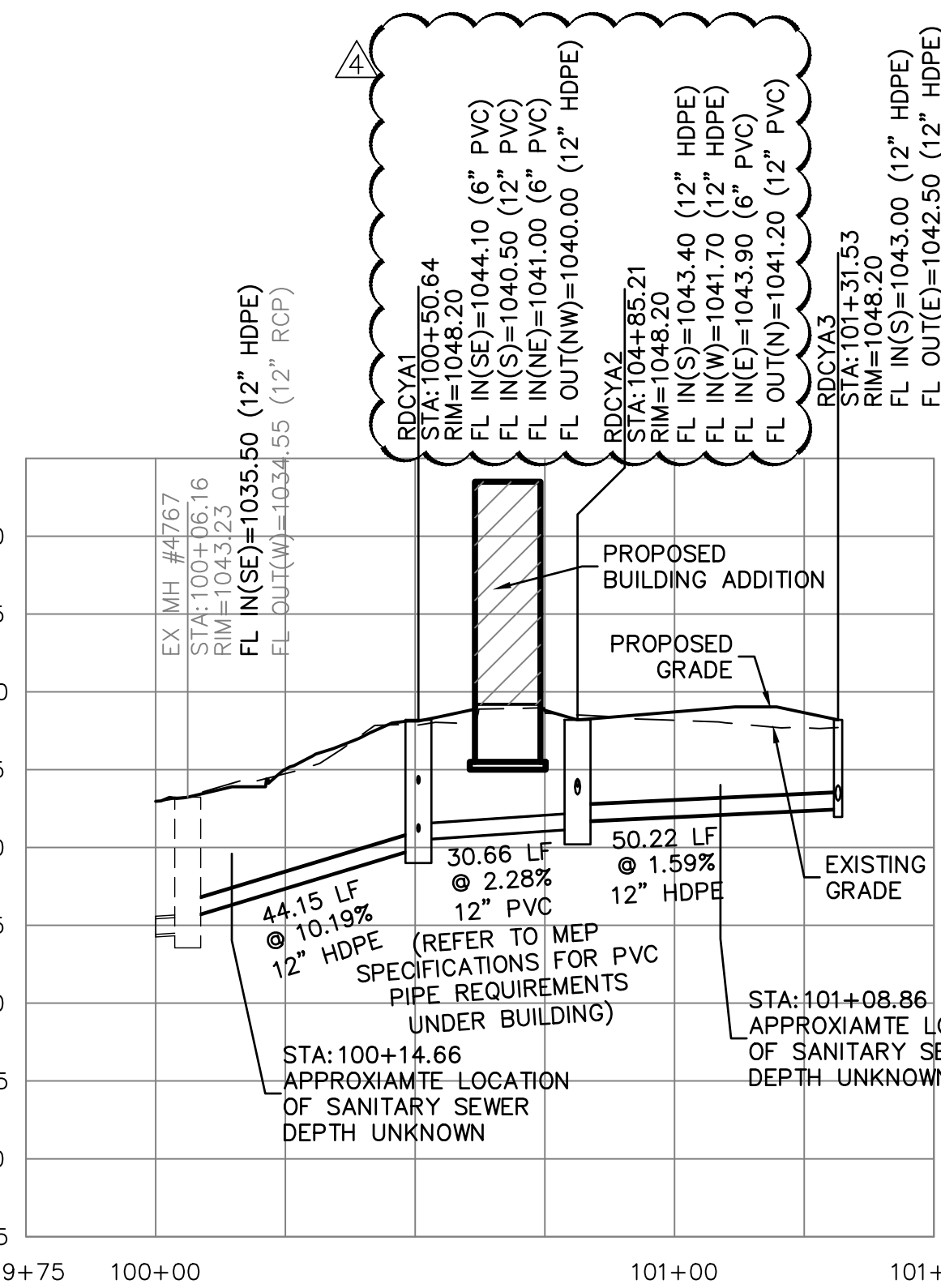


PRIVATE STORM SEWER LINE J PLAN

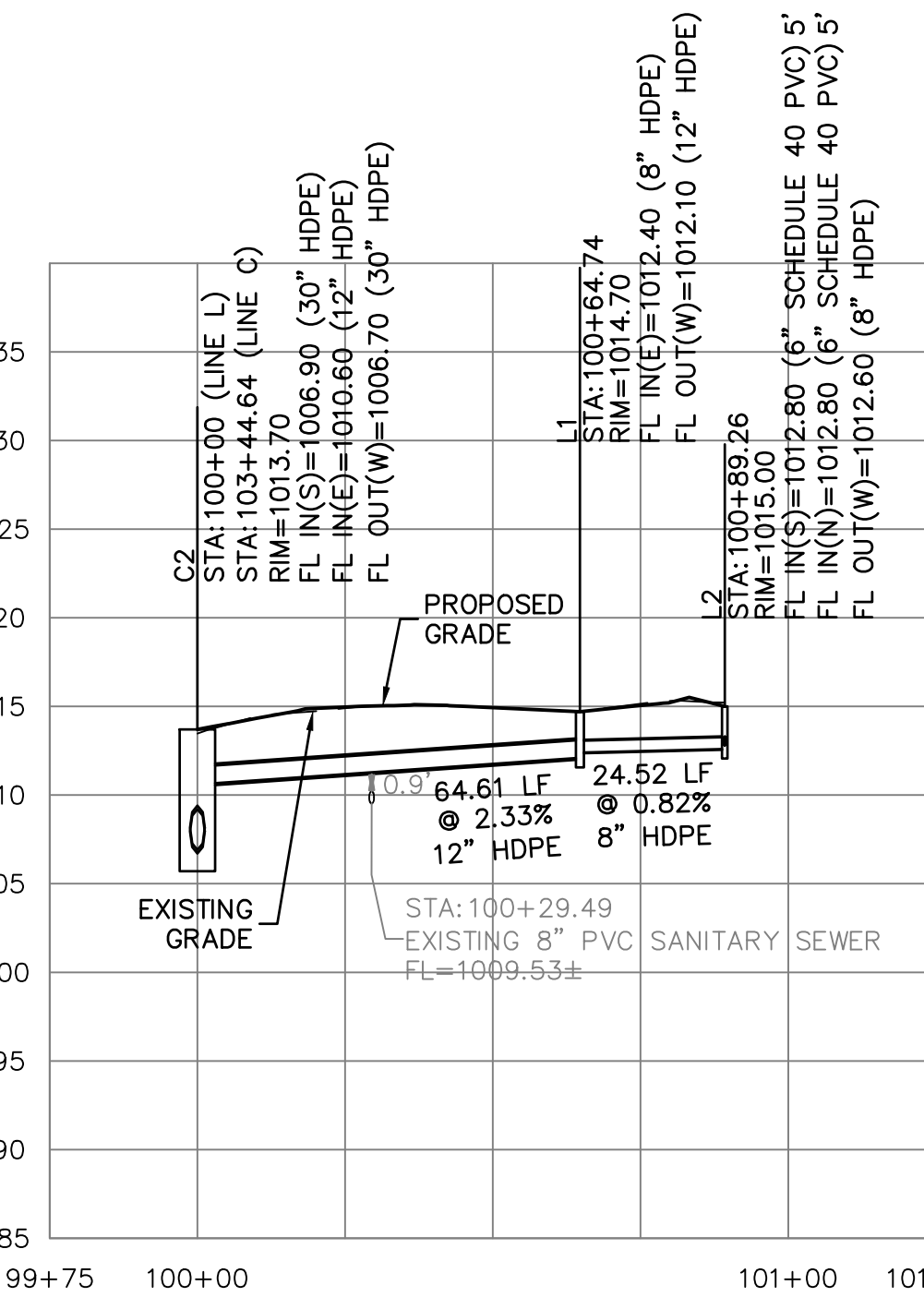


BASIN/INLINE DRAIN FOR  
GRAVEL BEDS DETAIL

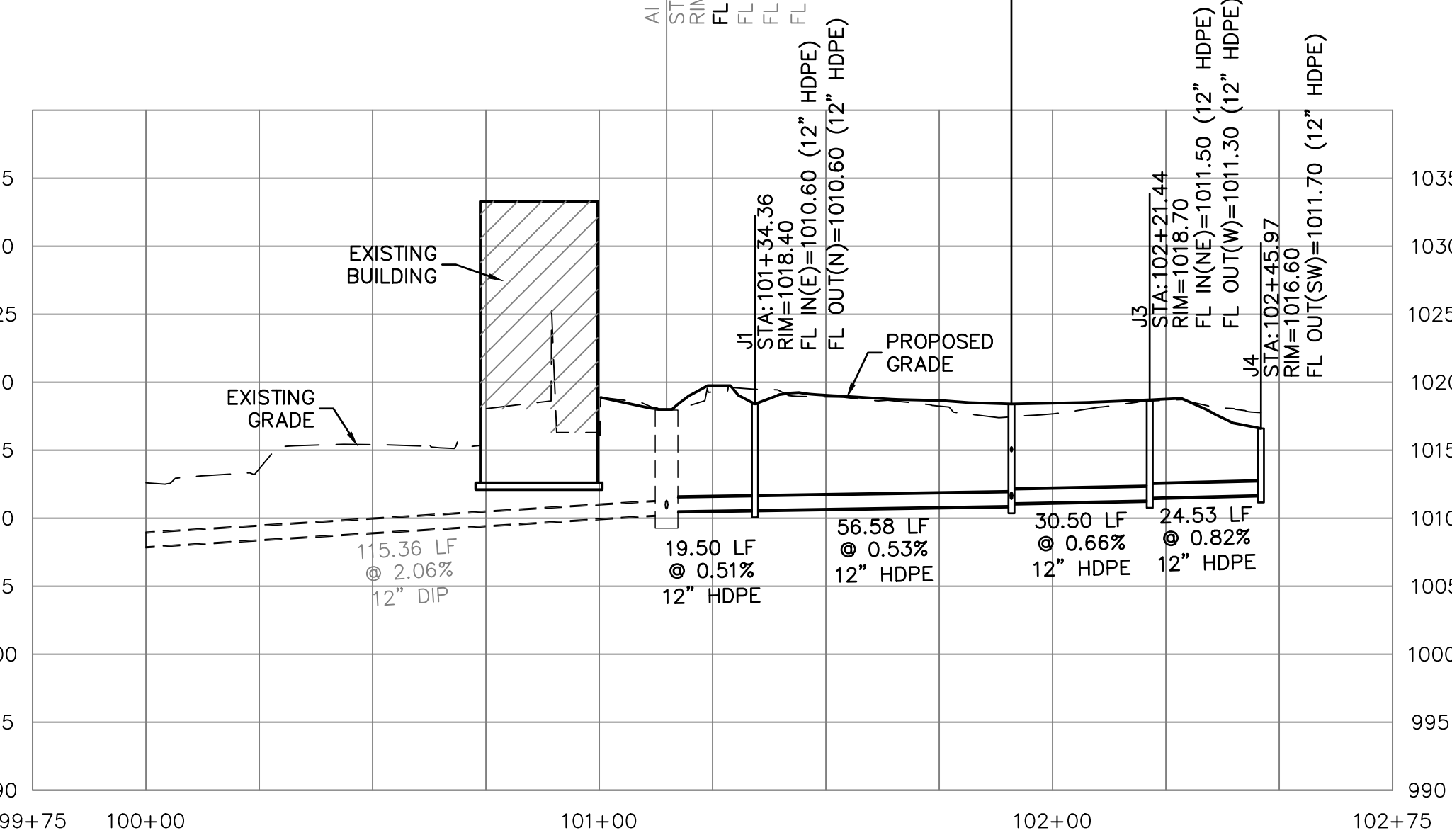
PRIVATE STORM SEWER ROOF DRAIN/COURTYARD A PLAN



PRIVATE STORM SEWER ROOF DRAIN/COURTYARD A PROFILE



PRIVATE STORM SEWER LINE I PROFILE



PRIVATE STORM SEWER LINE J PROFILE

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NOTES

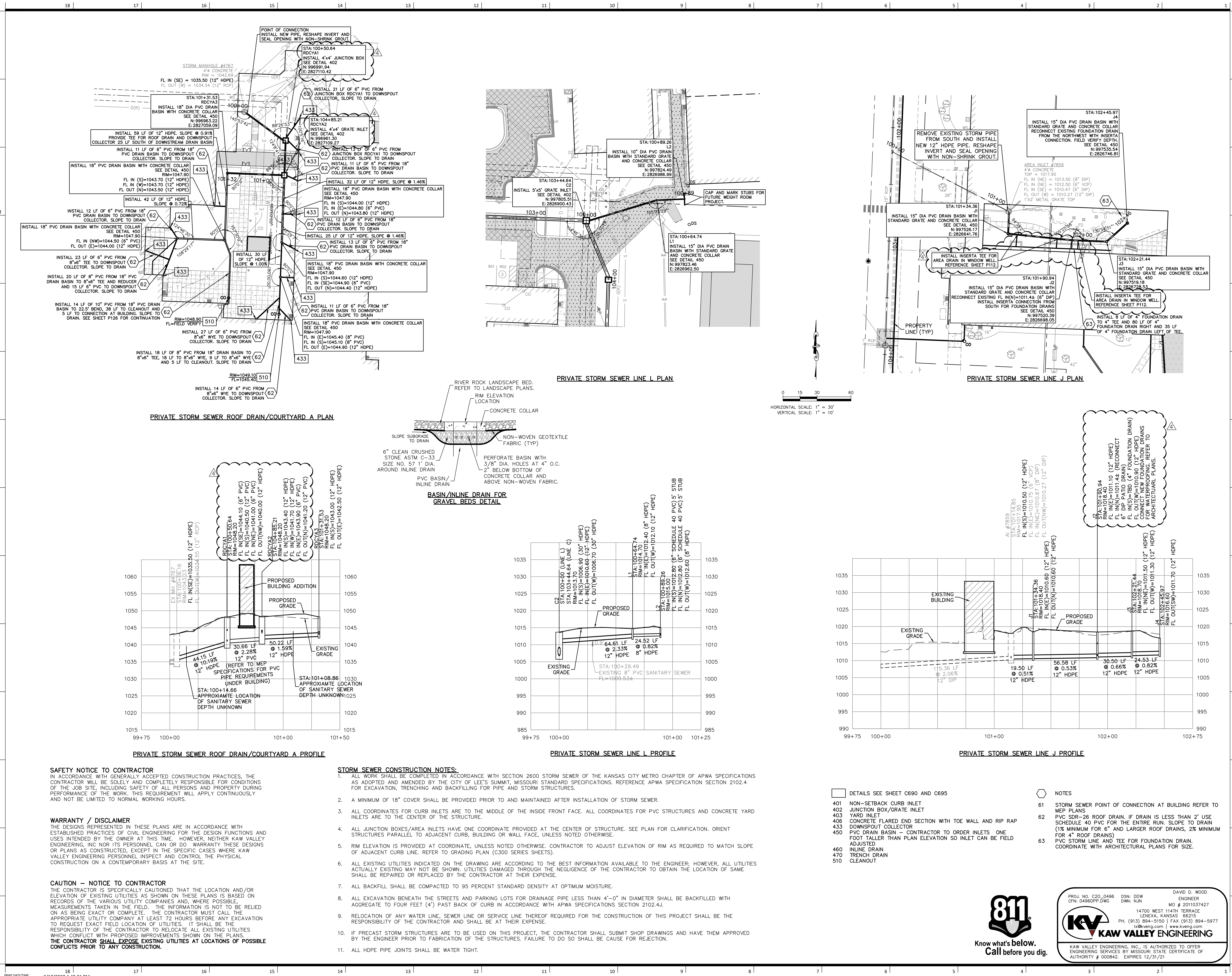
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- 63 PVC STORM LINE AND TEE FOR FOUNDATION DRAIN. COORDINATE WITH ARCHITECTURAL PLANS FOR SIZE.



PROJ. NO. C20-0496 DSN: DDW DAVID D. WOOD  
CFN: 04960PP.DWG DWN: NJN ENGINEER  
MO # 201037427  
14700 WEST 114TH TERRACE  
LENEXA, KANSAS 66215  
PH. (913) 894-5150 / FAX (913) 894-5977  
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**KV KAW VALLEY ENGINEERING**

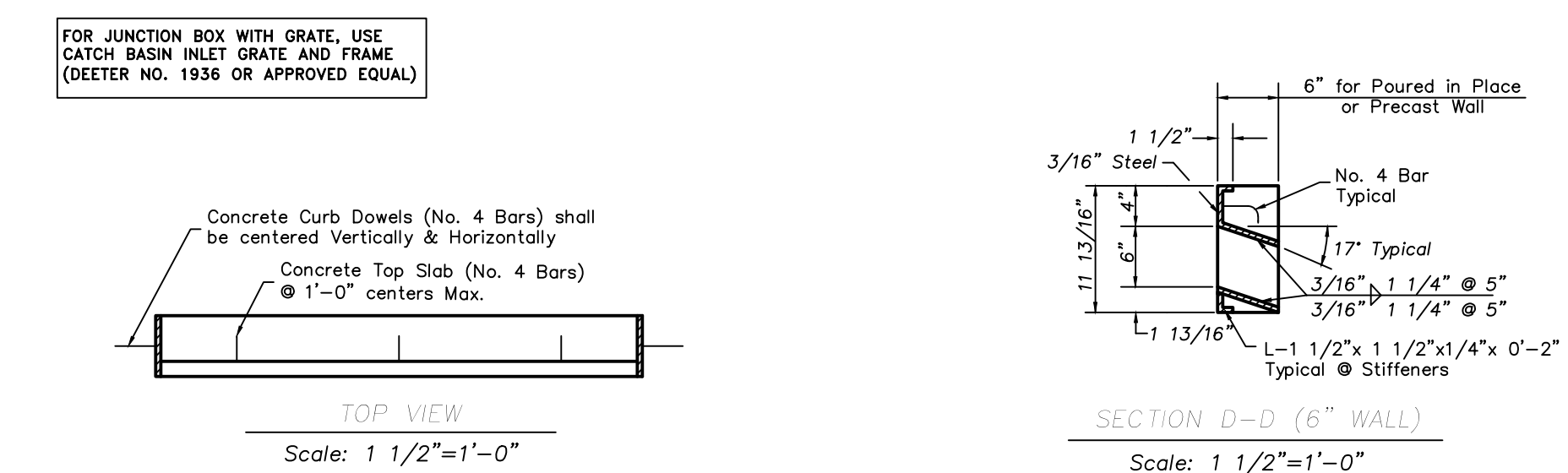
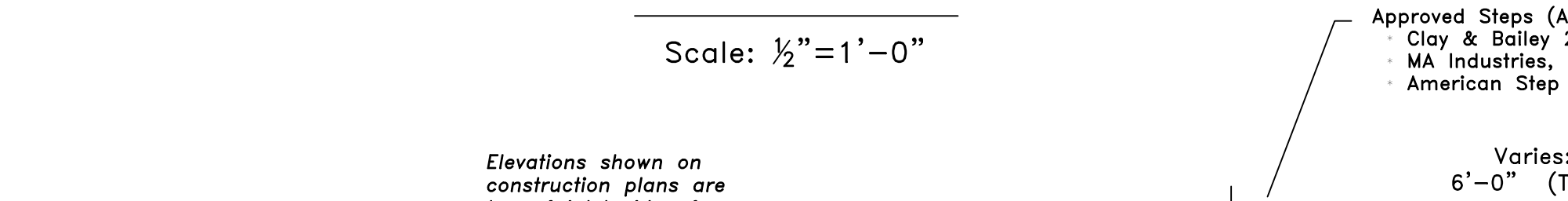
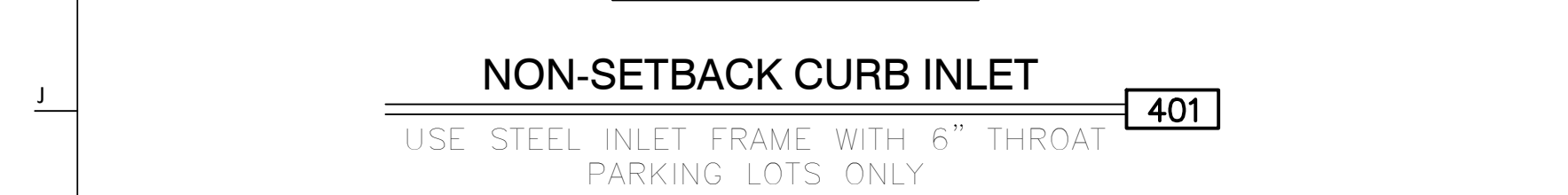
KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/21



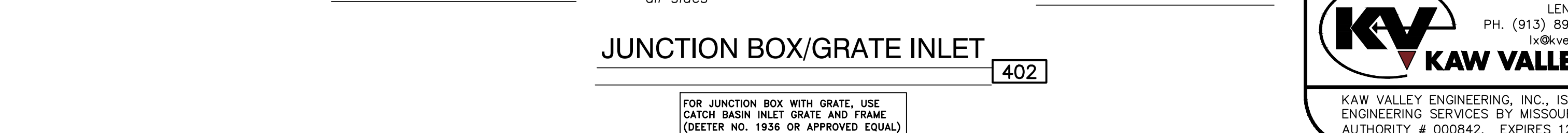
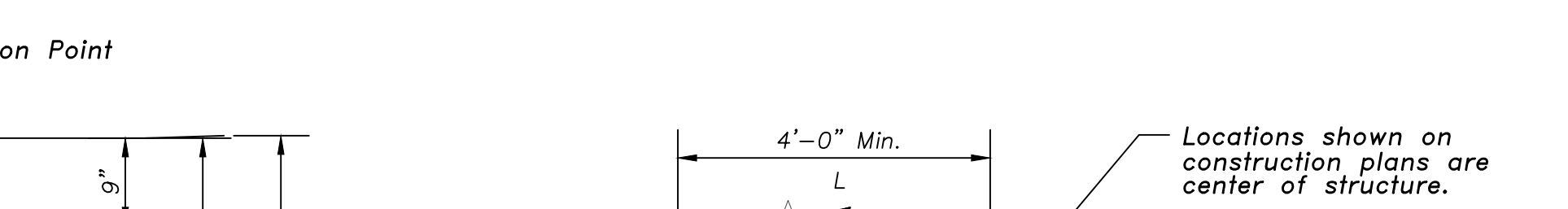








USE 6" WITH NON-SETBACK CURB INLET/AREA INLET  
USE 10" WITH SETBACK CURB INLET



FOR JUNCTION BOX WITH GRATE, USE  
CATCH BASIN INLET GRATE AND FRAME  
(DEETER NO. 1936 OR APPROVED EQUAL)



## Lee's Summit High School

400 SE Blue Pkwy  
Lee's Summit, MO 64063

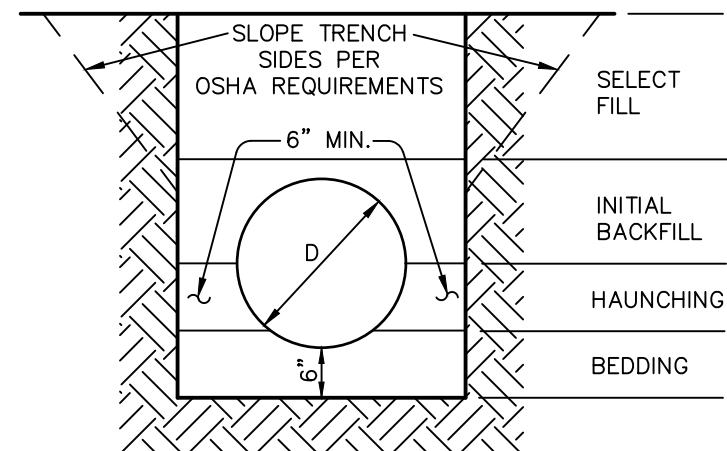
owner:  
Lee's Summit R-7 School District  
301 NE Tudor Road  
Lee's Summit, MO 64086

architect:  
Gould Evans  
4200 Pennsylvania Avenue  
Kansas City, MO 64111  
816.931.6655 voice  
www.gould-evans.com

structural engineer:  
Bob D. Campbell & Company, Inc.  
4338 Bellevue  
Kansas City, MO 64111  
816.531.4144

civil engineer:  
Kaw Valley Engineering  
14700 West 114th Terrace  
Lenexa, KS 66115  
913.485.0318

mechanical/electrical engineer:  
Henderson Engineers  
1801 Main St  
Kansas City, MO 64108  
816.663.5700

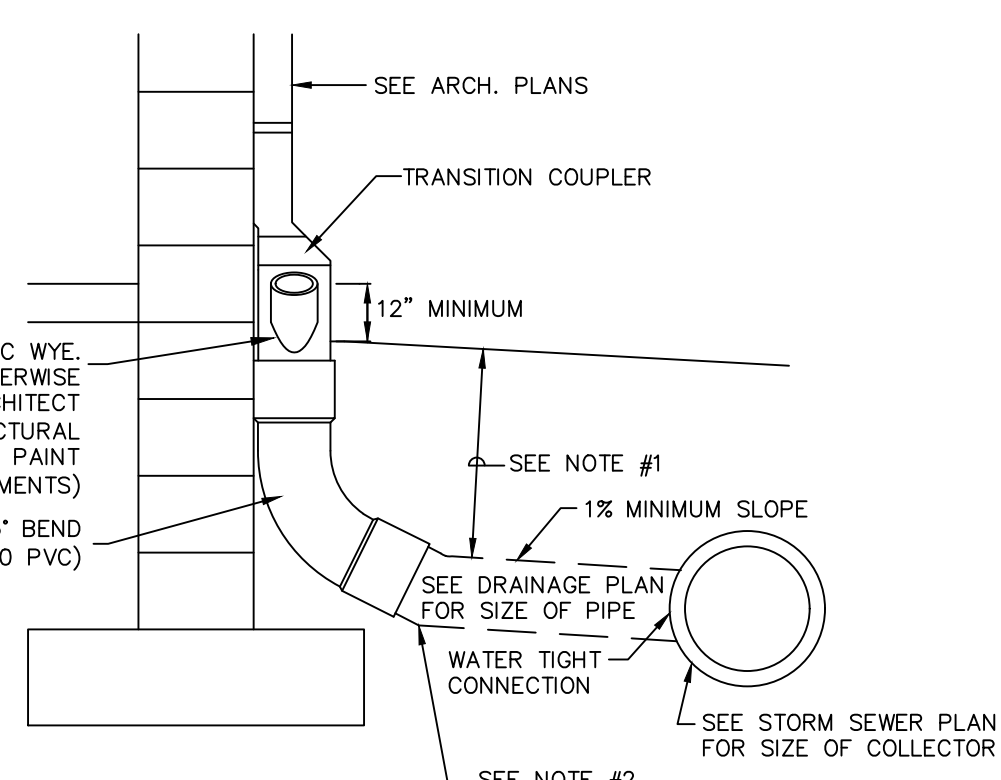
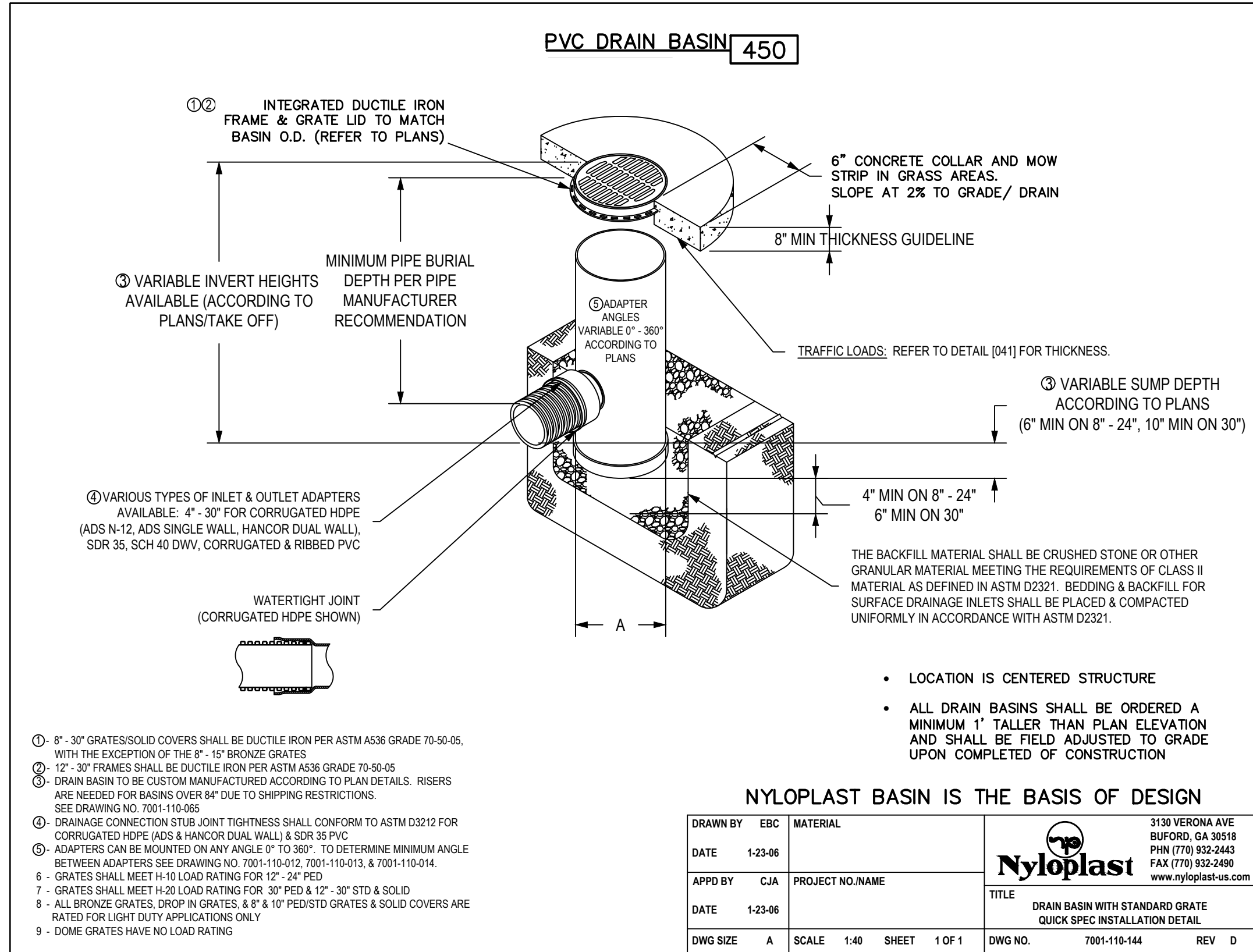


FLEXIBLE PIPE: INCLUDES CORRUGATED METAL PIPE, CORRUGATED POLYETHYLENE PIPE AND/OR POLYVINYL CHLORIDE PIPE.

- BEDDING SHALL BE COMPACTED CRUSHED STONE AND SHALL BE SHAPED TO THE BOTTOM OF THE PIPE.
- HAUNCHING AND INITIAL BACKFILL MATERIAL SHALL BE CLASS I OR II (REF. ASTM D2321) GRANULAR MATERIAL AND SHALL BE COMPACTED TO 95% STANDARD PROCTOR.

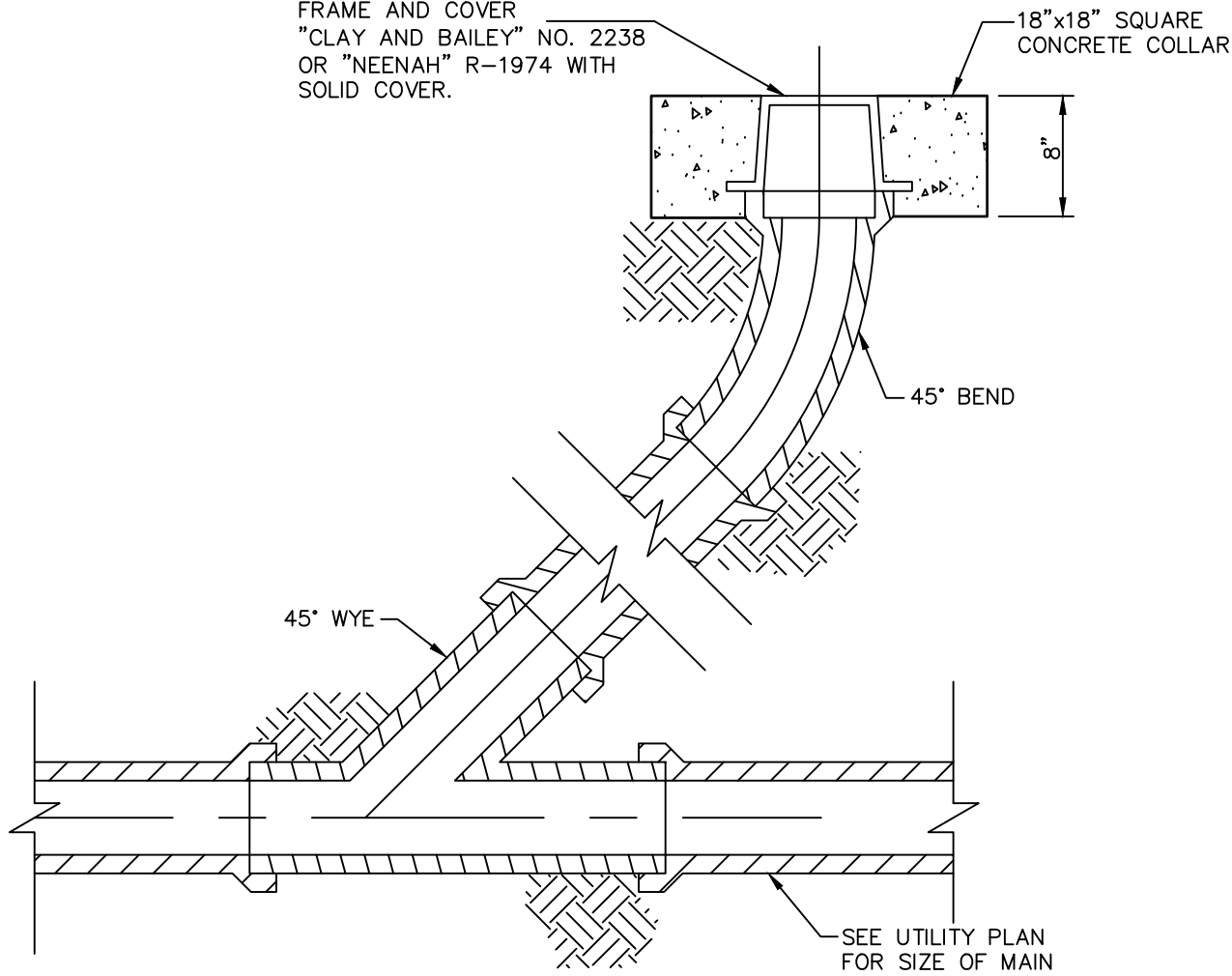
### TRENCH AND BEDDING DETAILS

REFER TO KANSAS CITY METROPOLITAN CHAPTER OF APWA SPECIFICATIONS SECTION 2102.4

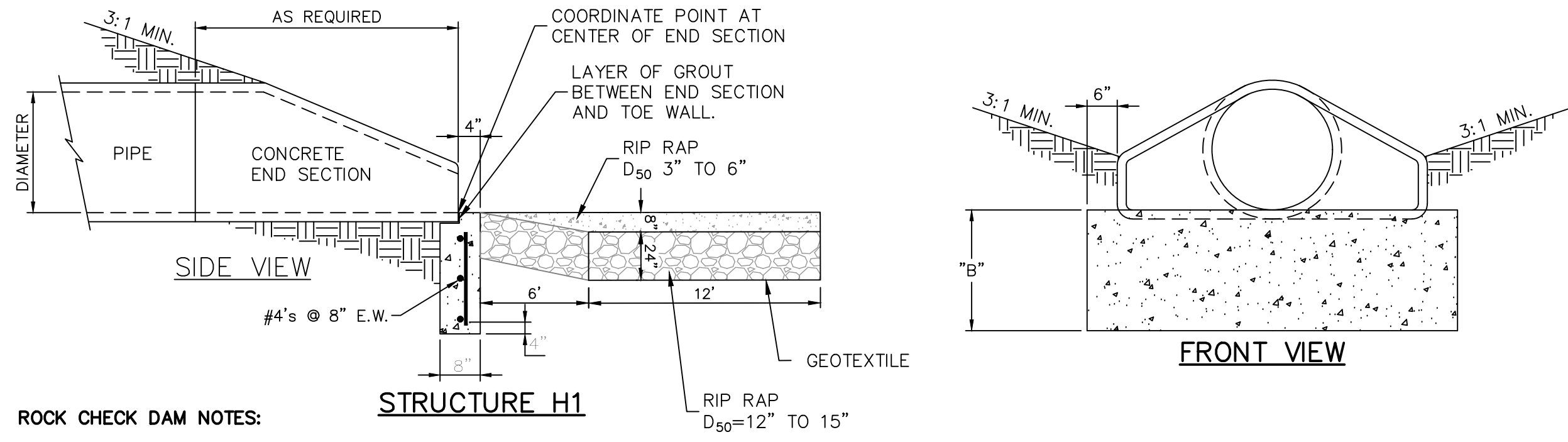


- NOTES:**
- FOR ALL DEPTHS OF COVER LESS THAN TWO (2) FEET, PIPE MUST BE SCHEDULE 40 PVC. FOR DEPTHS OF COVER GREATER THAN TWO (2) FEET, FLEXIBLE PIPE MAY BE USED. REFER TO SPECIFICATIONS FOR ALLOWABLE PIPE TYPES.
  - A WATERTIGHT CONNECTION SHALL BE MAINTAINED WITH ANY TRANSITION FROM SCHEDULE 40 PVC PIPE TO ANY OTHER PIPE TYPE.

### DOWNSPOUT COLLECTOR 433



### CLEAN-OUT 510



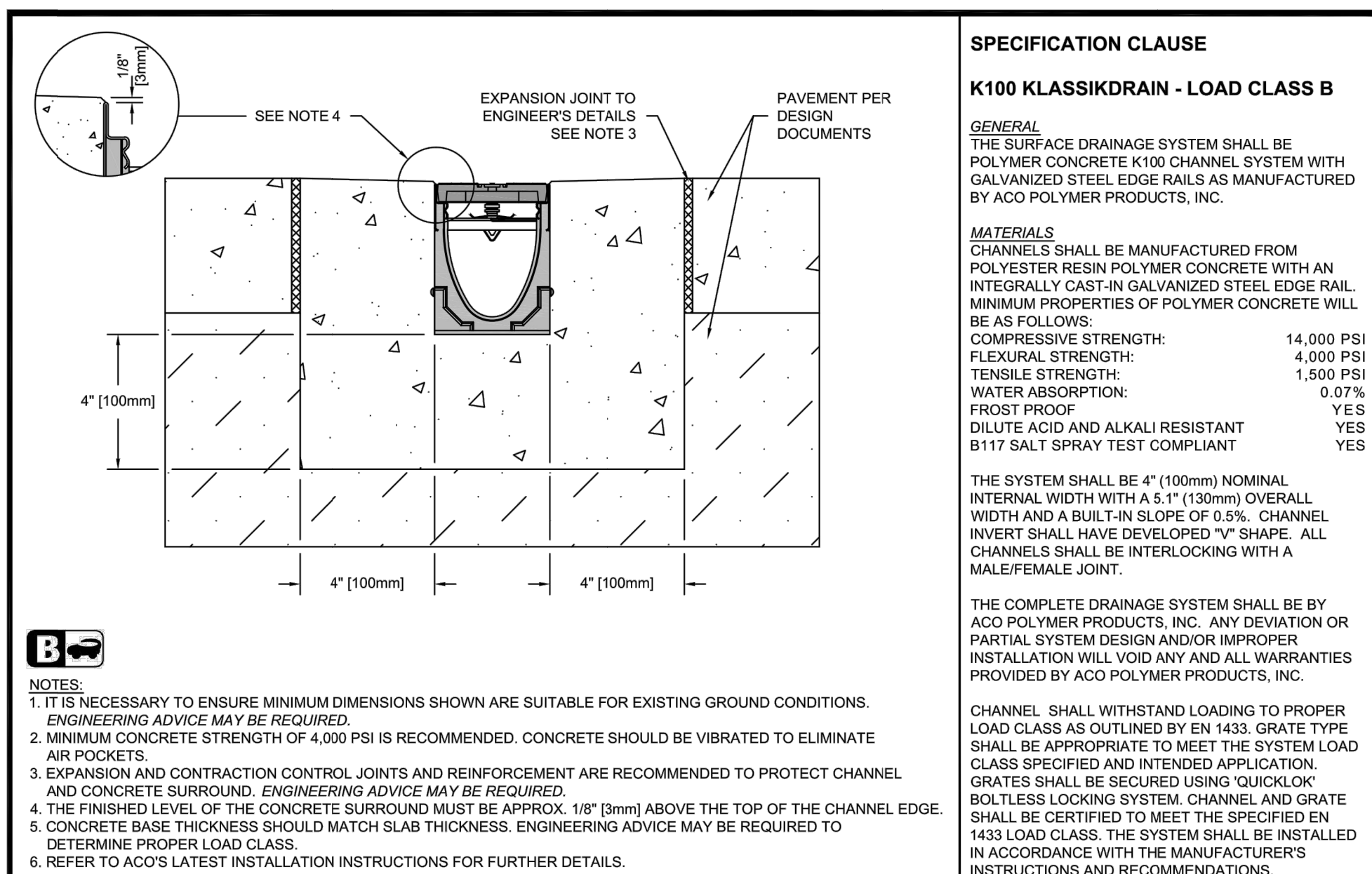
### ROCK CHECK DAM NOTES:

- A) CONSTRUCTION SPECIFICATIONS & INSTALLATION:
- THE MAXIMUM HEIGHT OF THE DAM SHALL BE 1 FEET. THE CENTER OF THE CHECK DAM IS AT THE SAME ELEVATION OF THE OUTER EDGES.
  - FOR ADDED STABILITY, THE BASE OF THE CHECK DAM SHALL BE KEVED INTO THE SOIL APPROXIMATELY 6 INCHES.
  - STONE SHOULD BE PLACED ACCORDING TO THE CONFIGURATION ABOVE. HAND OR MECHANICAL PLACEMENT WILL BE NECESSARY TO ACHIEVE COMPLETE COVERAGE OF THE DITCH OR SWALE AND TO INSURE THAT THE CENTER OF THE DAM IS LOWER THEN THE EDGES.
  - GEOTEXTILE MAY BE USED UNDER THE STONE TO PROVIDE A STABLE FOUNDATION AND TO FACILITATE REMOVAL OF THE STONE.
- B) INSPECTION AND MAINTENANCE:
- CHECK DAMS SHOULD BE CHECKED FOR SEDIMENT ACCUMULATION AFTER EACH STORM EVENT OF 1/2" OR GREATER. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES 1/2 OF THE ORIGINAL HEIGHT OF THE DAM.
  - REGULAR INSPECTIONS SHOULD BE MADE TO ENSURE THAT THE CENTER OF THE DAM IS LOWER THEN THE EDGES. EROSION CAUSED BY HIGH FLOWS AROUND EDGES OF THE DAM SHOULD BE CORRECTED.

### NOTES:

- THE DEPTH OF THE TOE WALL SHALL BE PER TABLE. IF BEDROCK IS ENCOUNTERED A MINIMUM OF 12" INTO BEDROCK IS REQUIRED.
- ALL CONCRETE SHALL MEET APWA 2600 SPECIFICATIONS.

### CONCRETE FLARED END SECTION W/ TOE WALL AND RIP RAP STILLING BASIN 406



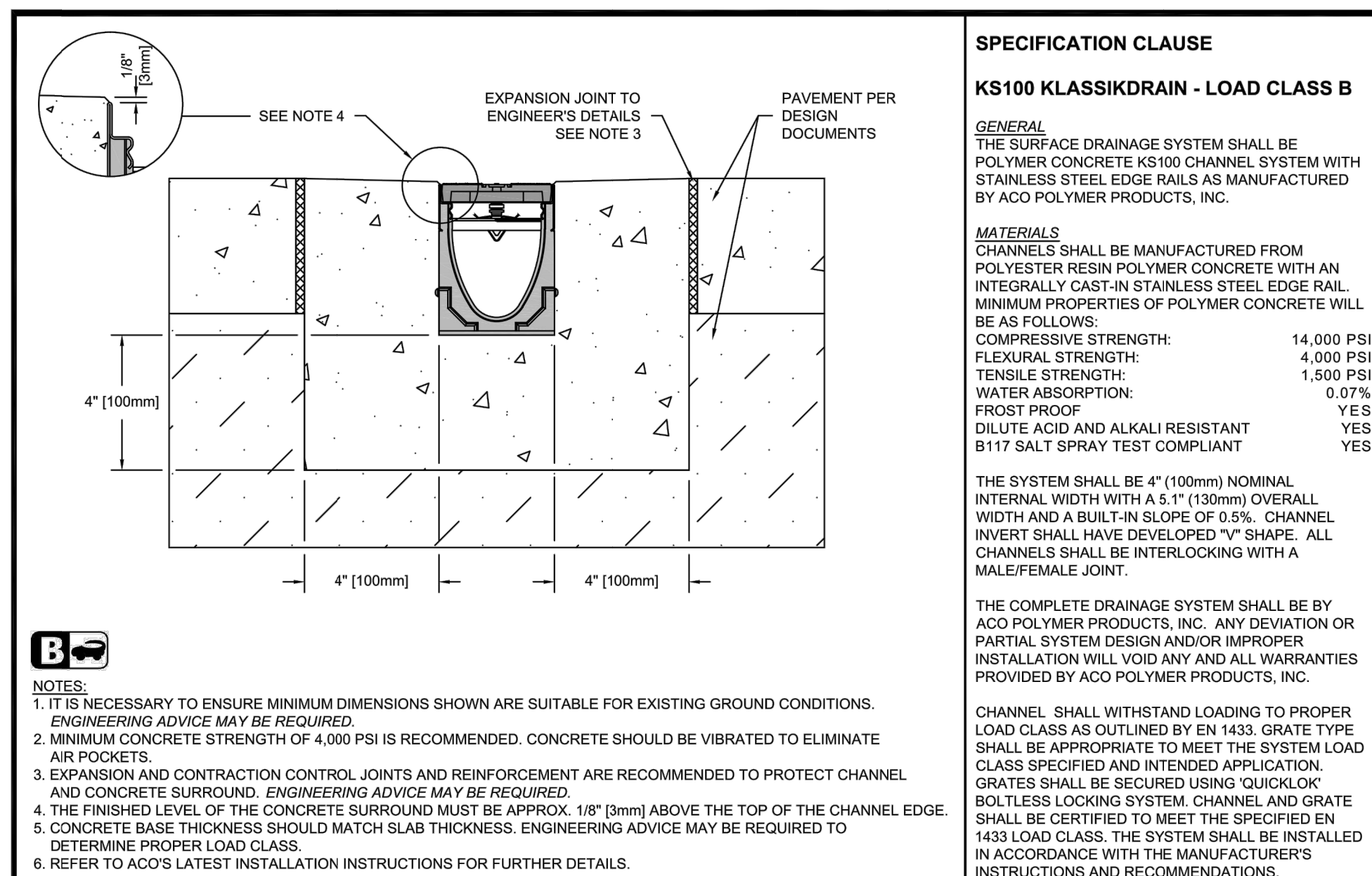
**K100 - KLASSIKDRAIN - LOAD CLASS: B**  
Exposed Concrete Pavement  
**INSTALLATION DRAWING - ACO DRAIN**

**ACO Polymer Products, Inc.**  
820 W. Beechcraft St.  
Crestview, OH 44026  
Tel: 888-490-9552 Fax: 440-639-7230  
www.acousa.com

8470 Pinecroft Dr.  
Mentor, OH 44060  
Tel: 440-639-7230 Fax: 440-639-7230

4211 Pleasant Rd.  
Fort Mill, SC 29708  
Tel: 803-543-8295 Fax: 803-543-8295

Arizona Tel: 888-490-9552 e-mail: sales@acousa.com Ohio Tel: 800-543-4764  
South Carolina Tel: 800-543-4764



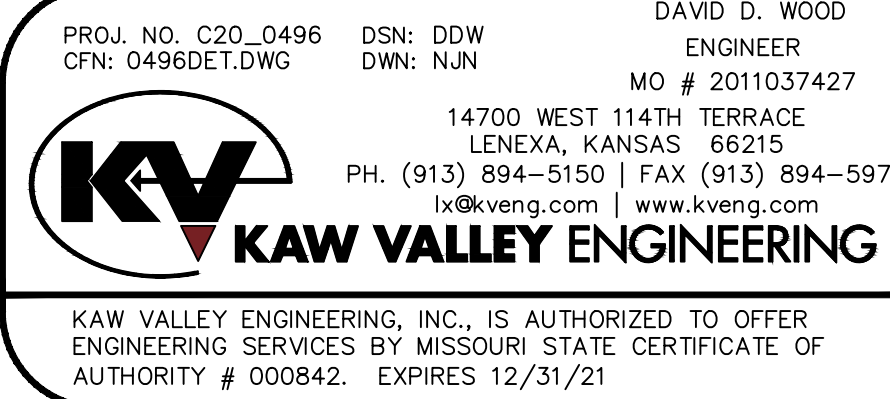
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Arizona Tel: 888-490-9552 e-mail: sales@acousa.com Ohio Tel: 800-543-4764  
South Carolina Tel: 800-543-4764



UNLESS A PROFESSIONAL SEAL WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION.



Kaw Valley Engineering, Inc.  
Missouri Certificate of Authority: 000842  
David Wood Date: 12/29/2020  
Engineer License No. PE-2011037427

REVISIONS	Number	DESCRIPTION	DATE
1	ADDENDUM #1	PER CITY COMMENTS	11-19-2020
2	AND COORDINATION WITH PACKAGE 2		12-15-2020
3	PER CITY COMMENTS		12-29-2020
4	PER CITY COMMENTS AND PACKAGE 2 - ADDENDUM #1		1-8-2021

RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
01/14/2021

PROJECT NO: 0119-0100  
DATE: December 29, 2020

Package 2

### STORM SEWER DETAILS

C695

Issued for Construction