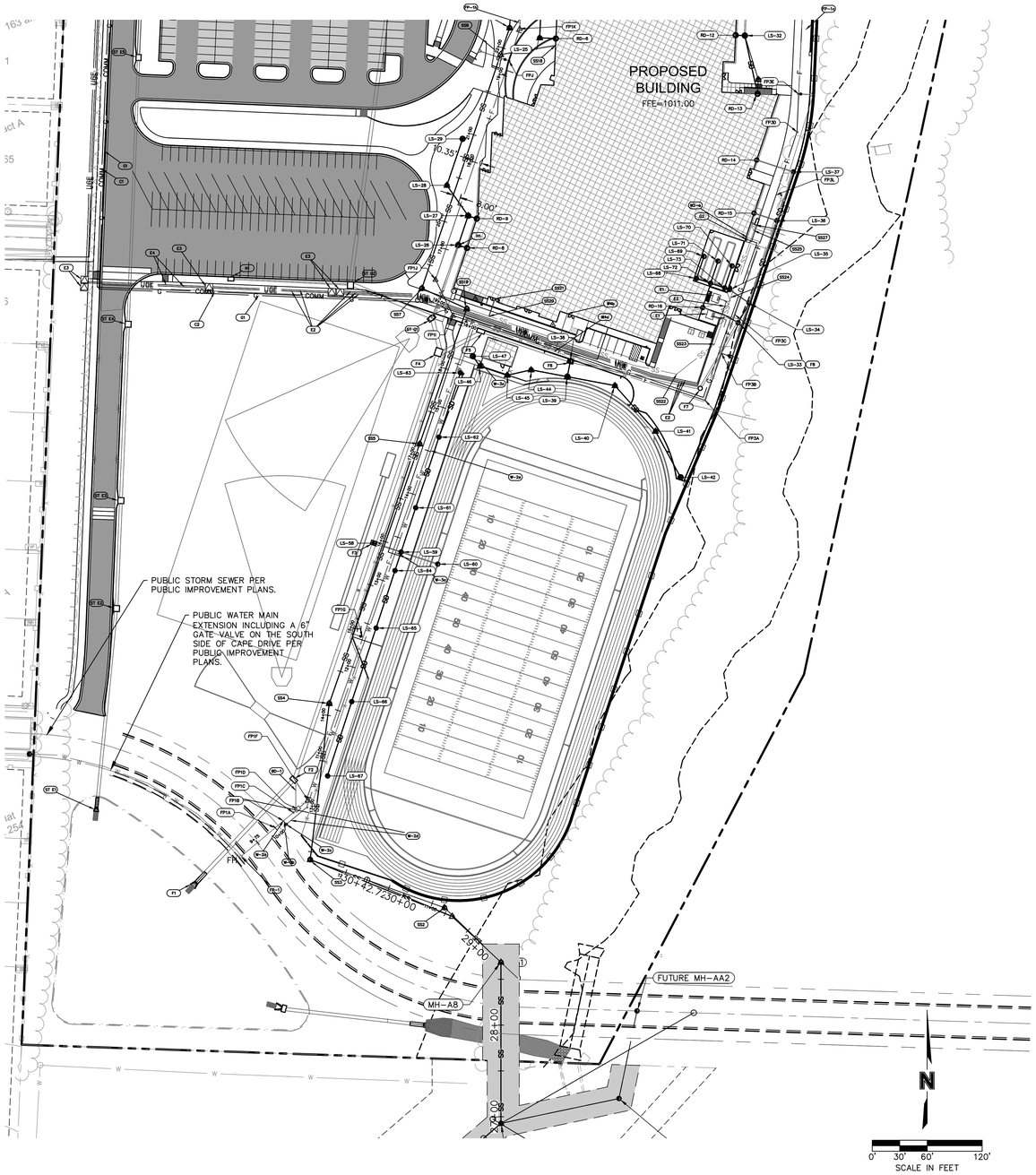

KEY NOTES:

DOMESTIC WATER

W2. WATERLINE TO MIDDLE SCHOOL
a. INSTALL 6x6x4 CUT IN TEE ON 6" PUBLIC CITY MAIN.
b. INSTALL 10 LF OF 4" AWWA C900 FROM TEE TO METER.
c. INSTALL 3" METER AND PIT PER DETAIL ON C1050.
d. INSTALL A MINIMUM 10 LF 4" AWWA C900 FROM METER TOWARDS BUILDING
e. CONTINUE BUILDING SERVICE CONNECTION WITH 1054± LF OF 4" AWWA C900 PIPE RE: MEP FOR CONNECTION AT BLDG AND BACKFLOW PREVENTION.

W3. HOSE BIB CONNECTION
a. ¾" TAP WITH HOSE BIB

W4. 2" SERVICE LINE TO SCHOOL
a. INSTALL 4x4x2 TEE ON 4" SERVICE LINE
b. INSTALL A MINIMUM 22 LF 2" AWWA C900 FROM METER TOWARDS BUILDING. CONNECT TO BLDG.

FIRE PROTECTION:
ALL FIRE PROTECTION LINE SHALL BE 6" AWWA C900 U.N.O.
ALL PUBLIC FITTINGS AND FIRE PROTECTION LINE FITTINGS MUST BE ZINC COATED
DUCTILE IRON PIPE
REFERENCE SHEETS C1028A AND C1028B FOR PROFILES AND KEYNOTE DESCRIPTIONS

FP1. INSTALL TEMPORARY IN-LINE FIRE HYDRANT ASSEMBLY ON SOUTH SIDE OF PROPOSED CAPE DRIVE

SANITARY SEWER:
REF: SHEET C1028C FOR PROFILES AND KEYNOTE DESCRIPTIONS

ELECTRICAL:
INSTALL ELECTRICAL SERVICE PER EVERGY DRAWING FILE NO. 977368-1. CONTRACTOR TO INSTALL TRANSFORMER AND SECTIONALIZER PADS AND CONDUIT PER UTILITY COMPANY STANDARDS AND SPECIFICATIONS. VERIFY CONDUIT SIZE AND ROUTING WITH EVERGY PRIOR TO INSTALLATION. ELECTRICAL DESIGN IS BY EVERGY. SEE MEP PLANS FOR LIGHTING AND LIGHTING CONDUIT.

E1. TRANSFORMER LOCATION.

E2. INSTALL 4" PVC CONDUIT (5300 LF TOTAL FOR SHEETS C1026 AND C1027)

E3. SECTIONALIZER LOCATION.

COMMUNICATIONS:
C2 INSTALL 2110± LF OF 3-4" PVC CONDUIT W/PULL STRING. COORDINATE CONNECTION AND LOCATION WITH COMMUNICATIONS COMPANY.

GAS SERVICE
G1 INSTALL 2340± LF OF GAS SERVICE LINE (SIZE AND MATERIAL TO BE DETERMINED). COORDINATE LOCATION WITH GAS SERVICE COMPANY.
G2 PROPOSED METER LOCATION

ROOF DRAIN SYSTEM:
RD108 INSTALL 6" INSERTA-TEE AND 56 LF 6" HDPE (S.) @ 1.00% MIN.
RD109 CONNECT TO BUILDING. RE: MAP

EXISTING CONDITIONS LEGEND

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

PROPOSED CONDITIONS LEGEND

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

LANDSCAPE AND ROOF DRAINS:

(LEN REFERS TO THE LENGTH OF THE DOWNSTREAM PIPE FROM THE STRUCTURE IN LINEAL FEET, ALL PIPE SHALL HDPE)

				N			NE			E			SE			S			SW			W			NW			
KEYNOTE	DS STRUC	TYPE	TS	IE	SIZE	LEN	IE	SIZE	LEN	IE	SIZE	LEN	IE	SIZE	LEN	IE	SIZE	LEN	IE	SIZE	LEN	IE	SIZE	LEN	IE	SIZE	LEN	SLOPE
LS-1	G8	CONNECTION TO G9	1016.20																			1009.58	15					
LS-2	G9 (LS-1)	24" NYLOPLAST BASIN W GRATED LID	1016.30							1009.84	15	24.4										1009.84	15					1.07%
LS-3	LS-2	24" NYLOPLAST BASIN W GRATED LID	1016.70	1010.58	12					1010.58	15	73.5										1010.58	12					1.01%
LS-4	LS-3	24" NYLOPLAST BASIN W GRATED LID	1016.49													1011.18	12	60				1011.18	12					1.00%
LS-5	LS-4	24" NYLOPLAST BASIN W GRATED LID	1016.69							1011.66	12	45.9				1011.66	6					1011.66	12					1.05%
LS-6	LS-5	24" NYLOPLAST BASIN W GRATED LID	1016.53							1012.05	12	38.6				1012.05	6					1012.05	12					1.01%
LS-7	LS-6	24" NYLOPLAST BASIN W GRATED LID	1016.51							1012.35	12	35.8													1012.35	12		0.84%
LS-8	LS-7	24" NYLOPLAST BASIN W GRATED LID	1015.85	1012.67	10								1012.67	12	40.6													0.79%
LS-9	LS-8	24" NYLOPLAST BASIN W SOLID LID	1016.00							1013.11	10					1012.80	10	16.9							1012.80	8		0.77%
LS-10	LS-9	24" NYLOPLAST BASIN W GRATED LID	1014.60										1012.95	8	15.3													0.98%
LS-11	LS-3	24" NYLOPLAST BASIN W GRATED LID	1016.70	1011.92	6					1011.92	12	48.2										1011.92	12					0.80%
LS-12	LS-11	24" NYLOPLAST BASIN W GRATED LID	1016.72	1011.93	6					1011.93	12	38.6										1011.93	10					0.88%
LS-13	LS-12	24" NYLOPLAST BASIN W GRATED LID	1014.81		6					1012.02	10	73.2							1012.02	8								0.92%
LS-14	LS-13	24" NYLOPLAST BASIN W GRATED LID	1013.96				1012.52	8	78.3																			0.64%
LS-17	E6	CONNECTION TO E7	1020.05				1009.32	8																				
LS-18	E7 (LS-17)	24" NYLOPLAST BASIN W GRATED LID	1014.50										1010.46	8					1010.46	8	64				1010.45	8		1.78%
LS-19	LS-18	24" NYLOPLAST BASIN W GRATED LID	1013.36										1011.35	8	89.2													1.01%
LS-20	LS-18	24" NYLOPLAST BASIN W GRATED LID	1014.50																						1011.37	8	87.64	1.00%
LS-21	G3	CONNECTION TO GG1	1008.43							1003.73	12																	
LS-22	GG1 (LS-21)	24" NYLOPLAST BASIN W GRATED LID	1010.40	1003.84	8											1003.81	10					1003.81	12	81.3				0.14%
LS-23	LS-22	24" NYLOPLAST BASIN W GRATED LID	1010.47							1008.21	8					1008.21	8	57.2										7.64%
LS-24	LS-22	24" NYLOPLAST BASIN W GRATED LID	1010.47	1004.32	10	48.1										1004.32	6					1004.32	8					
LS-25	LS-24	24" NYLOPLAST BASIN W GRATED LID	1010.83	1005.27	6	95.1																1005.27	6					1.00%
LS-26	G1	CONNECT TO H1	1008.46				1002.60	12																				
LS-27	H1 (LS-26)	24" NYLOPLAST BASIN W GRATED LID	1010.55				1002.94	8					1008.00	10					1002.94	12	33.8							1.01%
LS-28	LS-27	24" NYLOPLAST BASIN W GRATED LID	1007.00				1003.34	8					1003.84	8	40.4													0.99%
LS-29	LS-28	24" NYLOPLAST BASIN W GRATED LID	1007.00																1003.88	8	53.5							1.01%
LS-30	K2	CONNECTION TO K3	1007.79																			1005.95	8					
LS-31	K3	CONNECTION TO K4	1009.74																			1005.95	8					
LS-32	K4	CONNECTION TO K5	1009.78													1008.48	6					1008.42	8					
LS-33	F7	CONNETION TO F8	1006.41				1003.65	12																	1003.65	6		
LS-34	F8 (LS-33)	24" NYLOPLAST BASIN W GRATED LID	1006.08																1003.74	12	24.6				1003.76	12		0.37%
LS-35	LS-34	24" NYLOPLAST BASIN W GRATED LID	1006.63				1003.96	12					1003.96	12	22.1										1003.96	8		0.90%
LS-36	LS-35	24" NYLOPLAST BASIN W GRATED LID	1009.74				1004.23	8											1004.23	12	94.9				1004.24	8		0.50%
LS-37	LS-36	24" NYLOPLAST BASIN W GRATED LID	1009.96				1005.60	6											1005.60	10	56.1				1005.60	10		2.44%
LS-38	F5	CONNECTION TO F6	1006.32													1002.26	12											
LS-39	LS-38	24" NYLOPLAST BASIN W GRATED LID	1004.95	1002.35	12	17.3				1002.35	8											1002.35	8					0.52%
LS-40	LS-39	24" NYLOPLAST BASIN W SOLID LID	1004.70										1002.61	8								1002.61	8	52.8				0.49%
LS-41	LS-40	24" NYLOPLAST BASIN W GRATED LID	1004.76									H	1002.94	6											1002.94	8	66.4	0.50%
LS-42	LS-41	24" NYLOPLAST BASIN W GRATED LID	1003.68																						1003.22	6	57.2	0.48%
LS-44	LS-39	24" NYLOPLAST BASIN W GRATED LID	1003.48							1002.55	8	40.3							1002.55	8								0.50%
LS-45	LS-44	24" NYLOPLAST BASIN W GRATED LID	1004.92				1002.68	8	27.1																1002.68	8		0.50%
LS-46	LS-45	24" NYLOPLAST BASIN W GRATED LID	1004.92										1002.84	8	41.3										1002.84	8		0.48%
LS-47	LS-46	24" NYLOPLAST BASIN W GRATED LID	1004.61										1002.91	8	14.5													0.39%
LS-48	A4	CONNECTION TO A5	1015.00							1010.94	10																	0.48%
LS-49	A5 (LS-48)	24" NYLOPLAST BASIN W SOLID LID	1015.96							1012.80	10	92.5				1013.11	10								1013.00	6		
LS-49A	LS-49	CONNECT TO RET WALL FOUND DRAIN	1022.88										1020.80	6	38.2													2.98%
LS-50	A2	CONNECTION TO A3	1016.37																1010.45	12								20.42%
LS-51	A3 (LS-50)	24" NYLOPLAST BASIN W SOLID LID	1014.00				1011.30	12	85.7							1011.90	10					1011.90	10					0.99%
LS-54	G7	CONNECTION TO G8	1016.03							1010.50	6											1010.50	6					
LS-55	G8 (LS-54)	24" NYLOPLAST BASIN W SOLID LID	1016.55	1013.20	6					1013.00	8	49.2										1013.20	6					5.08%
LS-55A	G8 (LS-54)	24" NYLOPLAST BASIN W SOLID LID	1016.93	1013.60	6											1014.02	6					1013.00	8	48.5				5.15%
LS-56	LINE A	INSERT-A-TEE W/ 8" FIELD DRAIN	1016.75																									
LS-57	LINE A	INSERT-A-TEE W/ 8" FIELD DRAIN	1014.25																									
LS-58	F2	CONNECTION TO F3	1003.68										998.88	12														
LS-59	F3 (LS-58)	24" NYLOPLAST BASIN W GRATED LID	1004.67				999.43	8					999.43	10					999.43	8					999.43	12	27.4	
LS-60	LS-59	8in DIA 90 TEE	1005.00				1000.27	10	41.9																			2.00%
LS-61	LS-59	24" NYLOPLAST BASIN W GRATED LID	1003.00				999.95	8											999.95	8	51.1							1.02%
LS-62	LS-61	24" NYLOPLAST BASIN W GRATED LID	1003.00				1000.76	6											1000.76	8	81.1							1.00%
LS-63	LS-62	24" NYLOPLAST BASIN W GRATED LID	1003.00																1001.50	6	74							1.00%
LS-64	LS-59	24" NYLOPLAST BASIN W GRATED LID	1003.00				999.61	8	21.1										999.61	8								0.85%
LS-65	LS-64	24" NYLOPLAST BASIN W GRATED LID	1003.00				1000.14	8	66										1000.14	8								0.80%
LS-66	LS-65	24" NYLOPLAST BASIN W GRATED LID	1003.00				1000.82	8	84.6										1000.82	6								0.80%
LS-67	LS-66	24" NYLOPLAST BASIN W GRATED LID	1003.00				1001.50	6	85.2																			0.80%
LS-68	LS-72	18" NYLOPLAST BASIN W GRATED LID	1006.90				1005.03	8					1005.03	8	16.2													0.49%
LS-69	LS-68	18" NYLOPLAST BASIN W GRATED LID	1006.80																1005.13	8	25.4							0.39%
LS-70	LS-73	18" NYLOPLAST BASIN W GRATED LID	1006.80																1005.13	8	25.4							0.98%
LS-71	LS-72	18" NYLOPLAST BASIN W GRATED LID	1006.80																1005.18	8	25.4							0.71%
LS-72	LS-73	8x8x8 TEE	NA				1004.95	8					1004.95	8	16.2										1004.95	8		0.43%
LS-73	LS-35	8x8x8 TEE	NA				1004.88	8					1004.88	8	9.5										1004.88	8		6.84%
LS-74	LS-48	INSERT-A-TEE W/ 8" FIELD DRAIN	1014.60																									
LS-75	LINE A	INSERT-A-TEE W/ 8" FIELD DRAIN	1015.00																									
RD-1	LS-5	ROOF DRAIN CONNECTION		1013.40	6	5																						34.80%
RD-2	LS-6	ROOF DRAIN CONNECTION		1013.40	6	5																						27.00%
RD-3	LS-11	ROOF DRAIN CONNECTION														1013.40	6	3										51.67%
RD-4	LS-12	ROOF DRAIN CONNECTION														1013.40	6	3										51.67%
RD-5	LS-23	ROOF DRAIN CONNECTION																				1008.39	8	17.7				1.02%
RD-6	LS-25	ROOF DRAIN CONNECTION																				1008.67	6	17.7				19.21%
RD-7	LS-24	ROOF DRAIN CONNECTION																				1008.39	8	17.7				22.99%
RD-8	LS-26	ROOF DRAIN CONNECTION																							1008.25	8	10	56.50%
RD-9	LS-27	ROOF DRAIN CONNECTION																							1008.26	10	10	2.60%
RD-10	K3 (LS-30)	ROOF DRAIN CONNECTION								1006.00	8	10																0.50%
RD-11	K4 (LS-31)	ROOF DRAIN CONNECTION								1006.00	8	10																0.50%
RD-12	K5 (LS-32)	ROOF DRAIN CONNECTION								1008.67	8	10																0.50%
RD-13	K5 (LS-32)	ROOF DRAIN CONNECTION		1008.67	6	65																						0.29%
RD-14	LS-37	ROOF DRAIN CONNECTION											1006.03	6	40.4													0.99%
RD-15	LS-36	ROOF DRAIN CONNECTION											1005.38	8	25.17													4.57%
RD-16	LS-35	ROOF DRAIN CONNECTION								1004.38	10	44.3																0.95%

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/04/2021
Where no signature exists, this document is not a contract document.

KEY NOTES (CONT):

BACKFLOW DRAIN:
BD-1 INSTALL 24 LF OF 2" SDR26 PVC PIPE FROM BFP PIT TO STORM STRUCTURE @ 1% MINIMUM SLOPE

FOUNDATION DRAIN:
FD-1 CONNECT FOUNDATION DRAIN TO STRUCTURE F-5 WITH 4" HDPE PIPE. REF: STRUCTURAL

SANITARY SEWER SERVICE:

SS-19 CONNECT TO SS7 (INV EL=996.50)
SS-20 INSTALL 25.7 LF OF 6" PVC (SDR-26) SANITARY SERVICE (E) TO 6x6x4 WYE (INV EL=996.76)
SS-21 INSTALL 20.6 LF OF 4" PVC (SDR-26) SANITARY SERVICE FROM SS-20 TO BUILDING (INV EL=1005.00) REF:MEP
SS-22 INSTALL 210.5 LF OF 6" PVC (SDR-26) SANITARY SERVICE (E) WITH STAND CLEANOUT (INV EL=998.86, TOS=1006.48)
SS-23 INSTALL 62.1 LF OF 6" PVC (SDR-26) SANITARY SERVICE (NE) WITH STAND CLEANOUT (INV EL=999.44, TOS=1006.62)
SS-24 INSTALL 54.6 LF OF 6" PVC (SDR-26) SANITARY SERVICE (NE) WITH STAND CLEANOUT (INV EL=999.95, TOS=1006.48)
SS-25 INSTALL 74.5 LF OF 6" PVC (SDR-26) SANITARY SERVICE
SS-26 NOT USED
SS-27 CONNECT TO GREASE TRAP DRAIN (INV EL=1000.66) REF: MEP

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LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DISTRICT

1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PACKAGE 2-
STRUCTURAL & SITE
UTILITIES
ISSUED FOR PERMIT
06/28/20

2 PR002R 01.14.21
3 UTIL REV 09.17.21

13-20102-00

UTILITY PLAN

C1027

DWG: F:\2020\0001-0500\020-0103\40-Design\AutoCAD\Final Plans\Sheets\GNCV\CONSTRUCTION DOCUMENTS\C_UTL02_0200103.dwg USER: tparsons
DATE: Sep 22, 2021 3:07pm XREFS: C_XBASE_0200103 C_PBASE_0200103 C_PTBLK_0200103 C_PBASE_0200103 TMP C_PBASE02_0200103 C_PSURF_0200103 C_LSS01_0200103 V_XALT_00103 T_PSAS_0200103