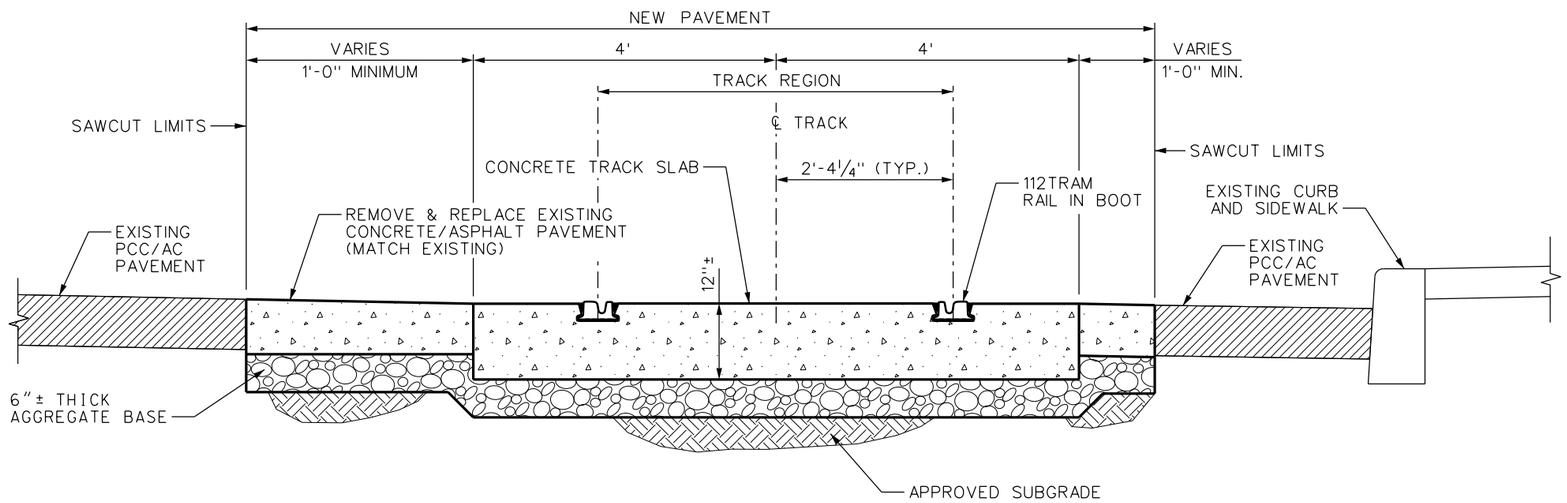
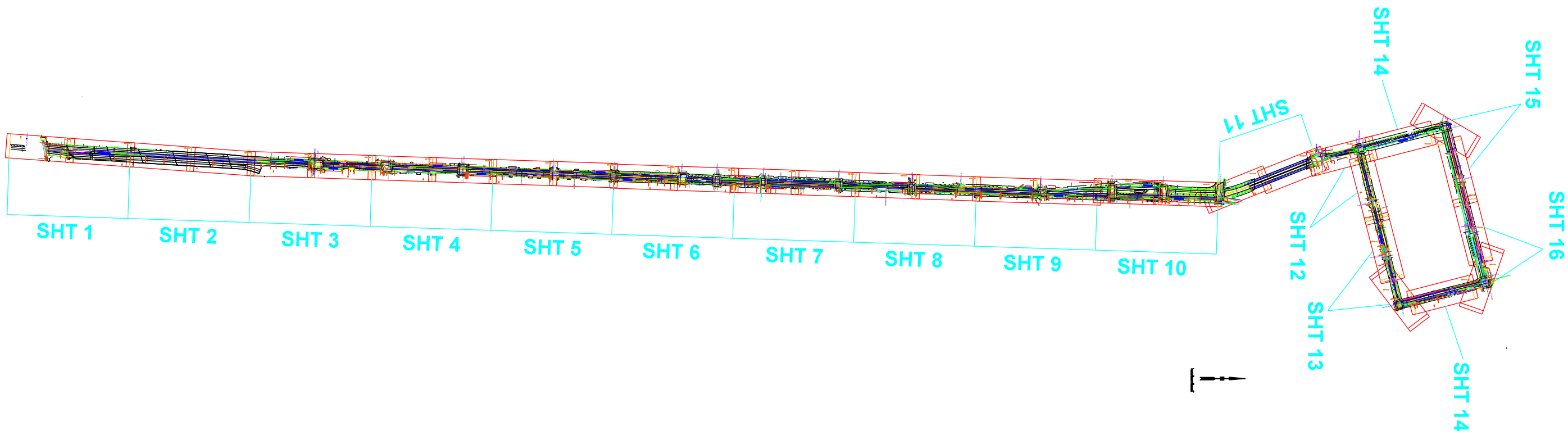


SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY –	DATE APPROVED –		ADVANCED CONCEPTUAL ENGINEERING SUBMITTAL		KANSAS CITY DOWNTOWN STREETCAR	SHEET NO.
				DRAWN BY –	DIV. ENGINEER –	KC Downtown Streetcar	NOT FOR CONSTRUCTION	HDR Consult Inc engineers / HDR Engineering, Inc.	TYPICAL SECTION	
				CHECKED BY –						
	SHEET FILE: TypSect_Hq_091912.DGN		PLOT DATE: 10/11/2012 2:31:12 PM	APPROVED BY –						

PLOT DATE: 10/11/2012 2:31:12 PM BY: Design


SHT 1
SHT 2
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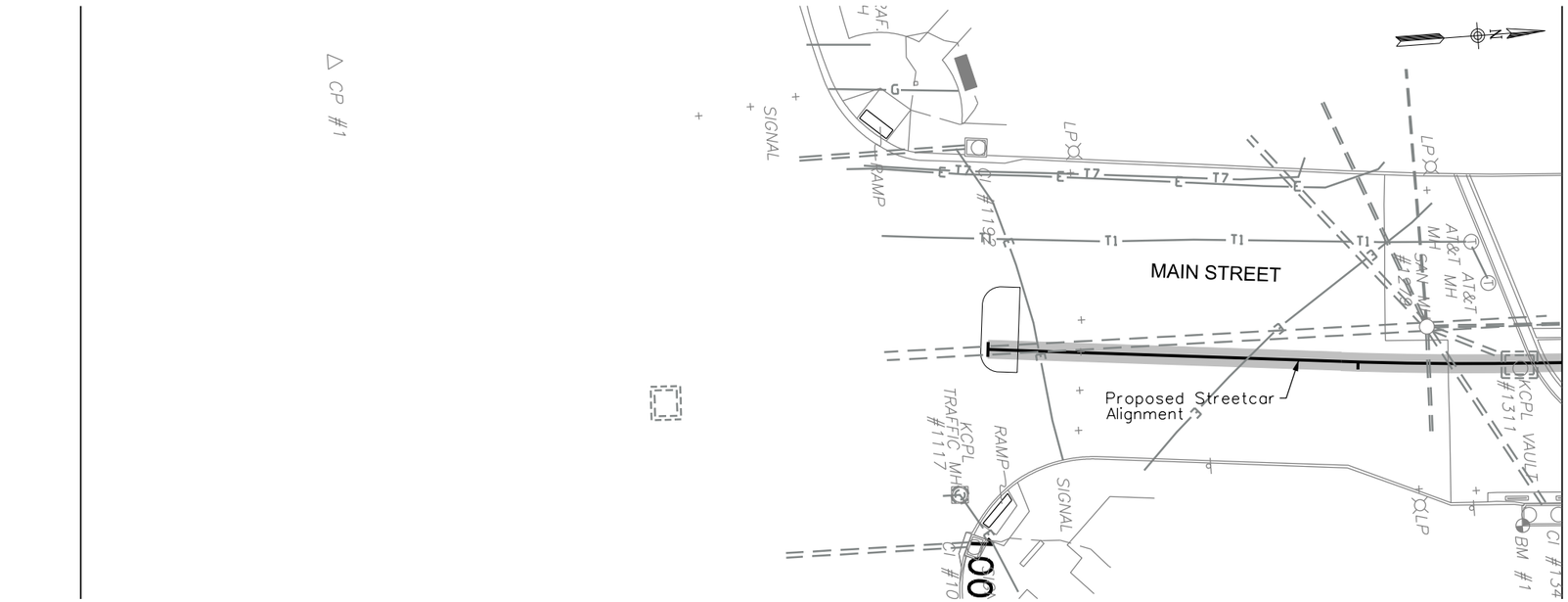
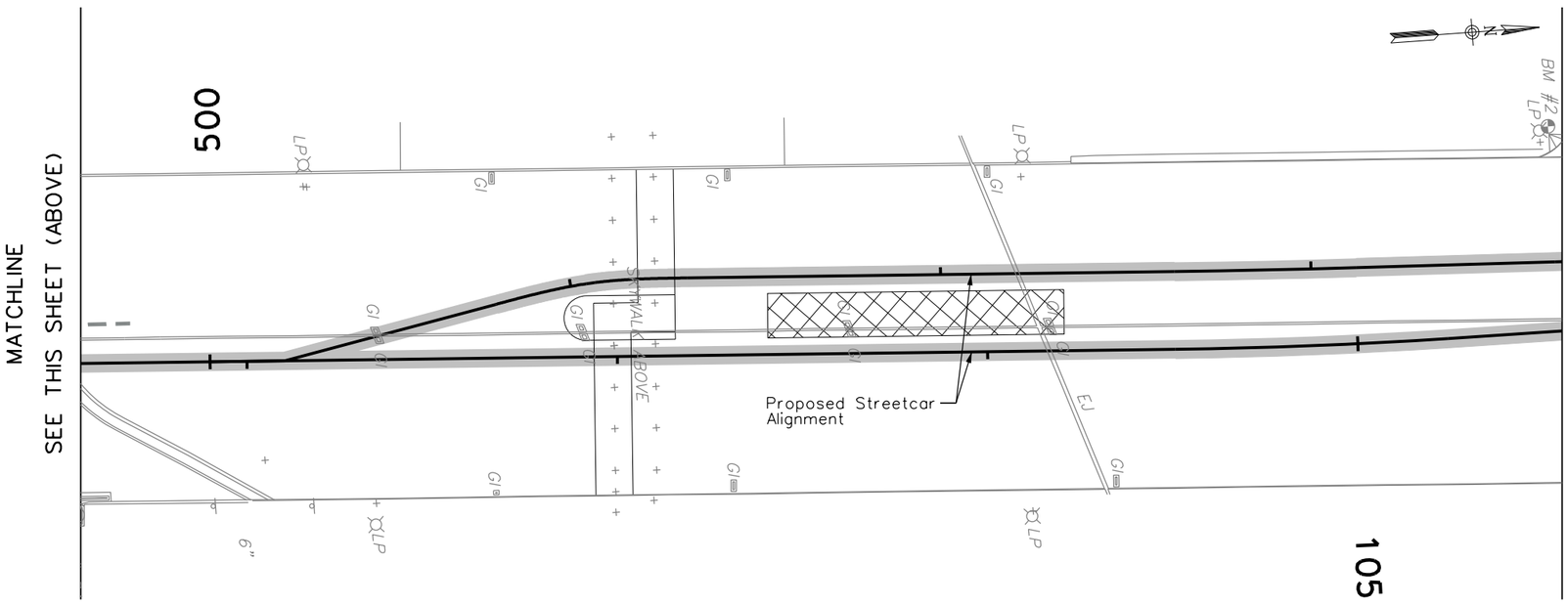
SHT 16





GRAPHIC SCALE

0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

2) ALIGNMENT SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE

SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY –	DATE APPROVED –
CU1				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 01_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:00:46 PM

KC Downtown Streetcar

ADVANCED CONCEPTUAL ENGINEERING SUBMITTAL

NOT FOR CONSTRUCTION

HDR Engineering, Inc.

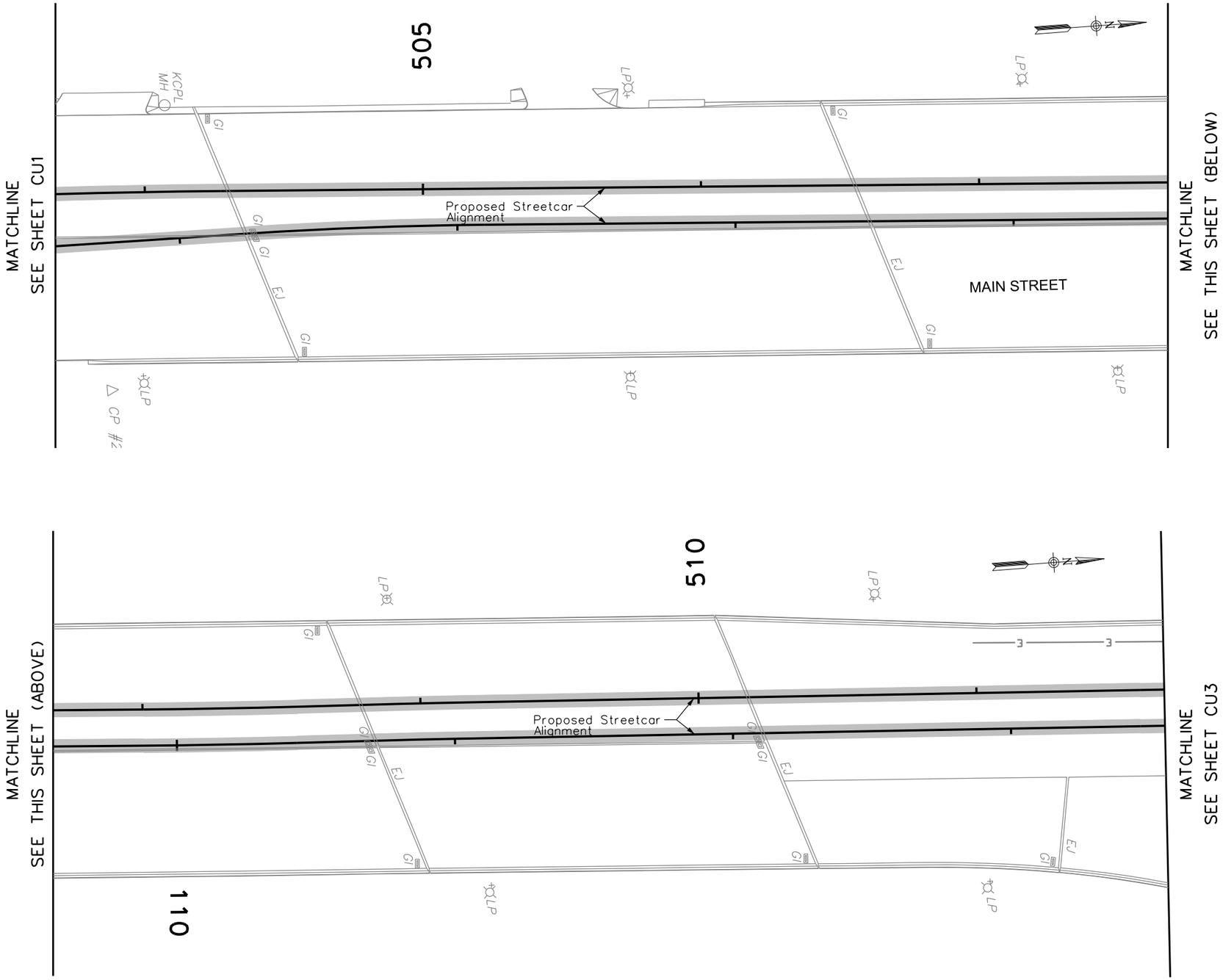
KANSAS CITY DOWNTOWN STREETCAR

Conceptual

Utility Improvement Drawings

SHEET NO. CU1

PLOT DATE: 11/5/2012 1:00:46 PM BY: HDR - Streetcar



GRAPHIC SCALE
0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

2) ALIGNMENT SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE

SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY –	DATE APPROVED –
CU2				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 02_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:02:57 PM

KC Downtown Streetcar

ADVANCED CONCEPTUAL ENGINEERING SUBMITTAL

NOT FOR CONSTRUCTION

HDR Engineering, Inc.

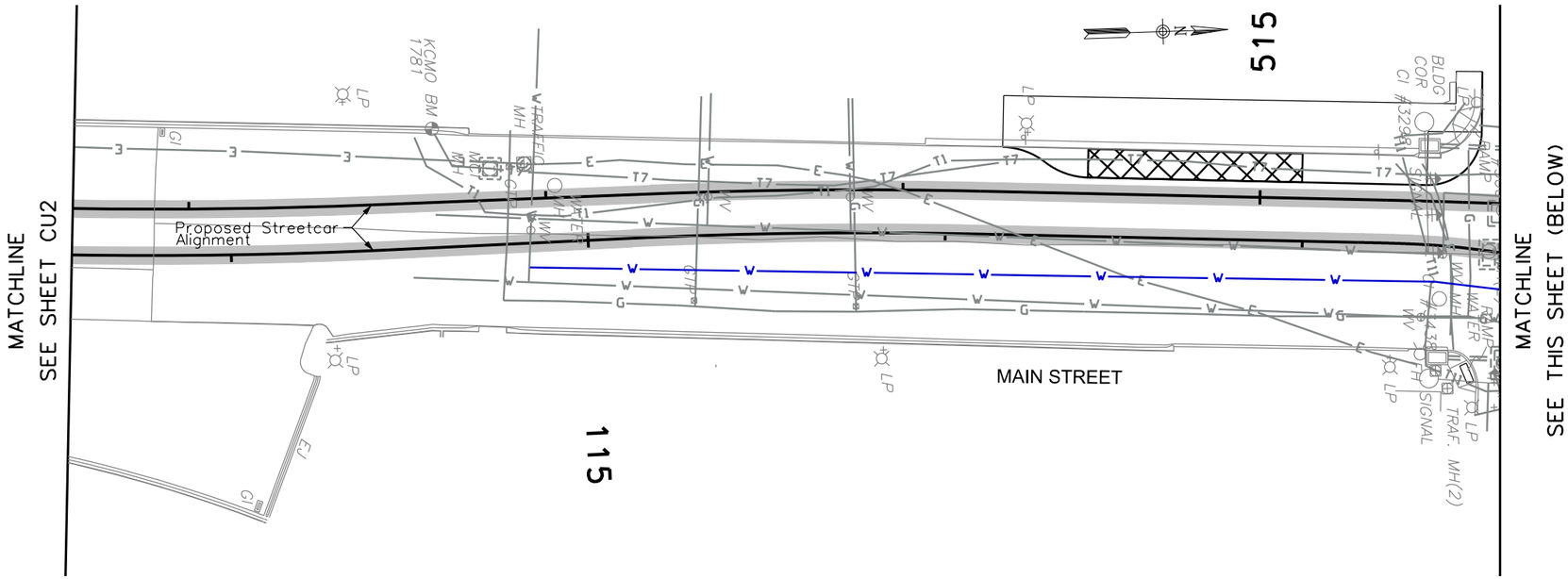
KANSAS CITY DOWNTOWN STREETCAR

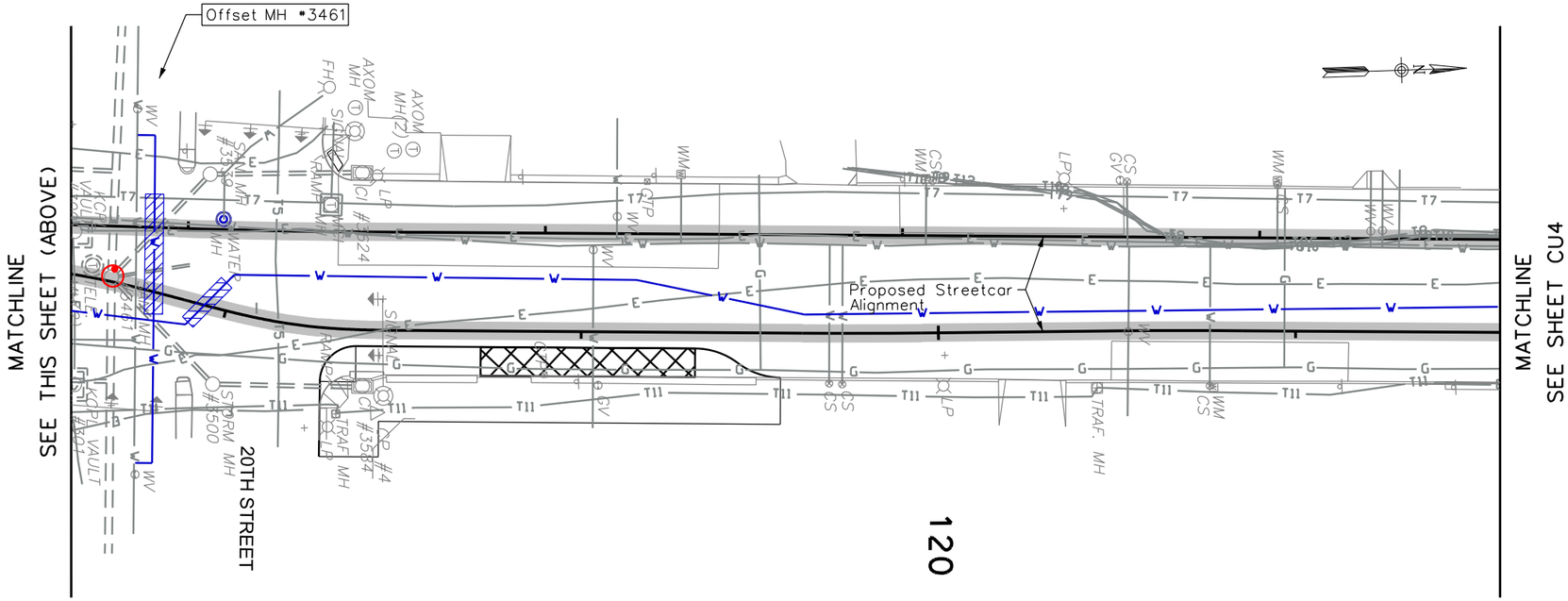
Conceptual

Utility Improvement Drawings

SHEET NO. CU2

PLOT DATE: 11/5/2012 1:02:57 PM BY: HDR - Streetcar





GRAPHIC SCALE

0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

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SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY	DATE APPROVED
CU3				–	–
				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 03_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:06:32 PM

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Consult Inc engineers

HDR Engineering, Inc.

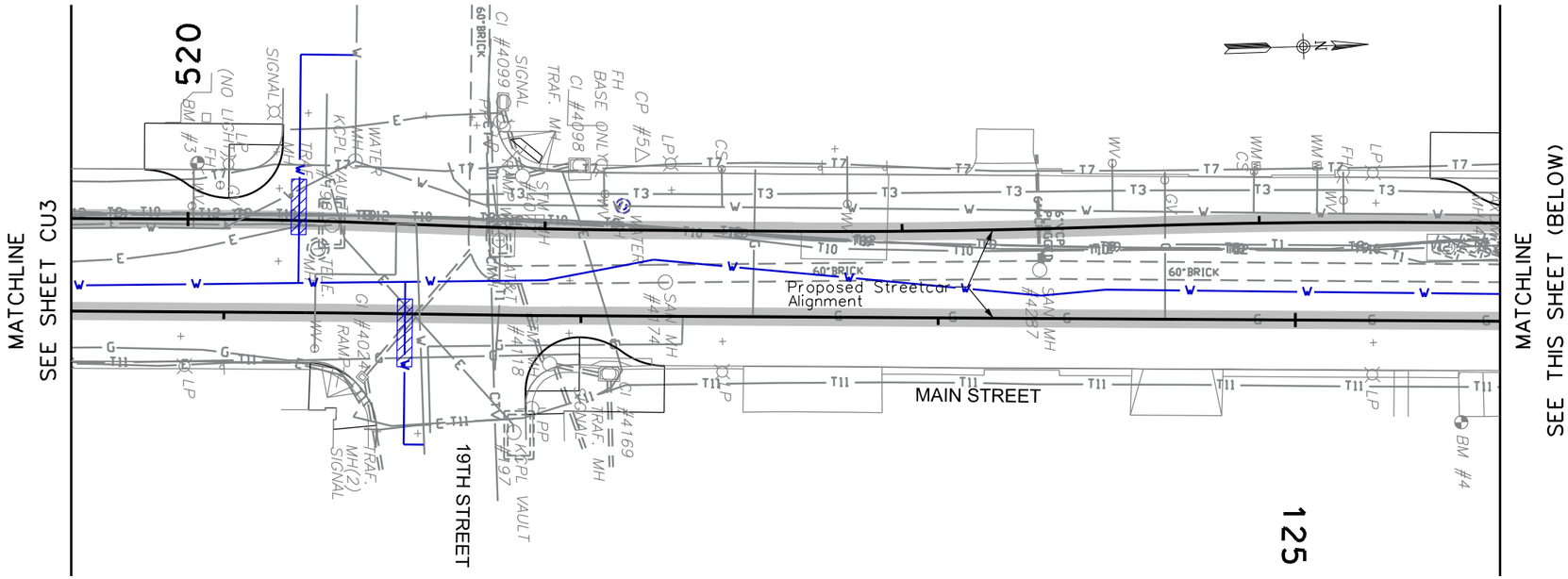
KANSAS CITY DOWNTOWN STREETCAR

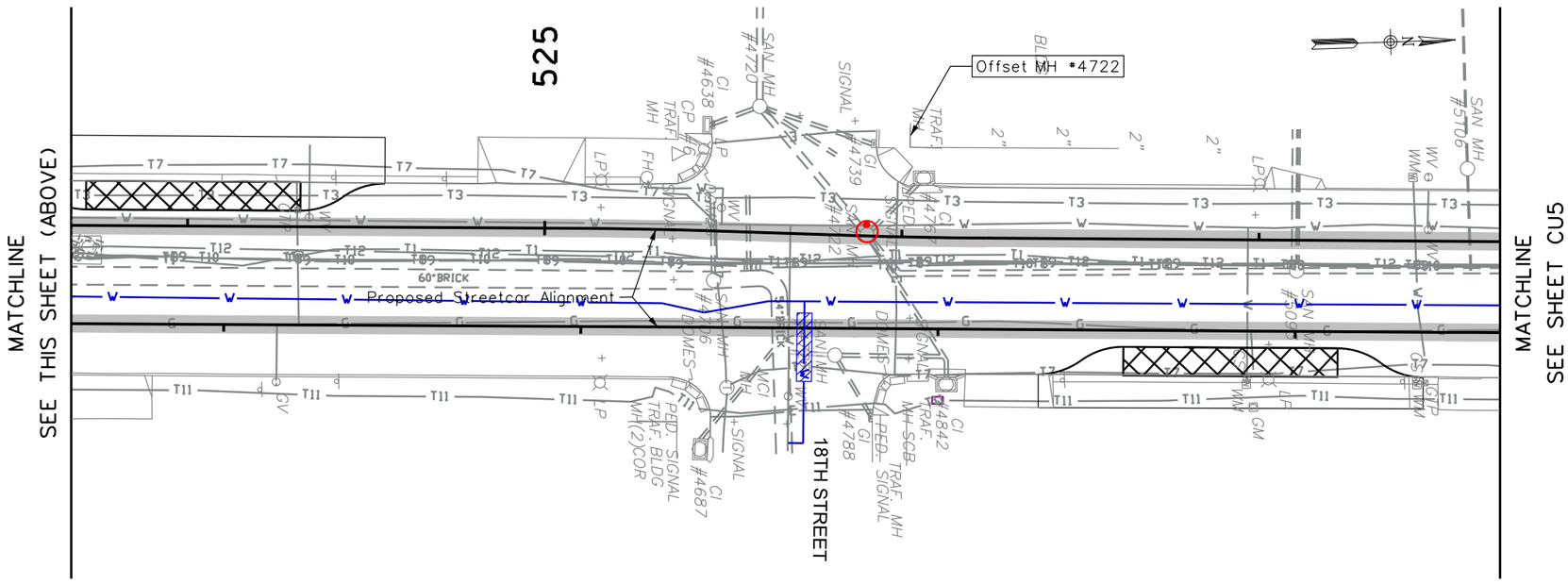
Conceptual

Utility Improvement Drawings

SHEET NO. CU3

PLOT DATE: 11/5/2012 1:06:32 PM BY: HDR - Streetcar





GRAPHIC SCALE
0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

2) ALIGNMENT SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE

SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY	DATE APPROVED
CU4				–	–
				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 04_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:08:25 PM

KC Downtown Streetcar

ADVANCED CONCEPTUAL ENGINEERING SUBMITTAL

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HGC Consult Inc engineers

HDR Engineering, Inc.

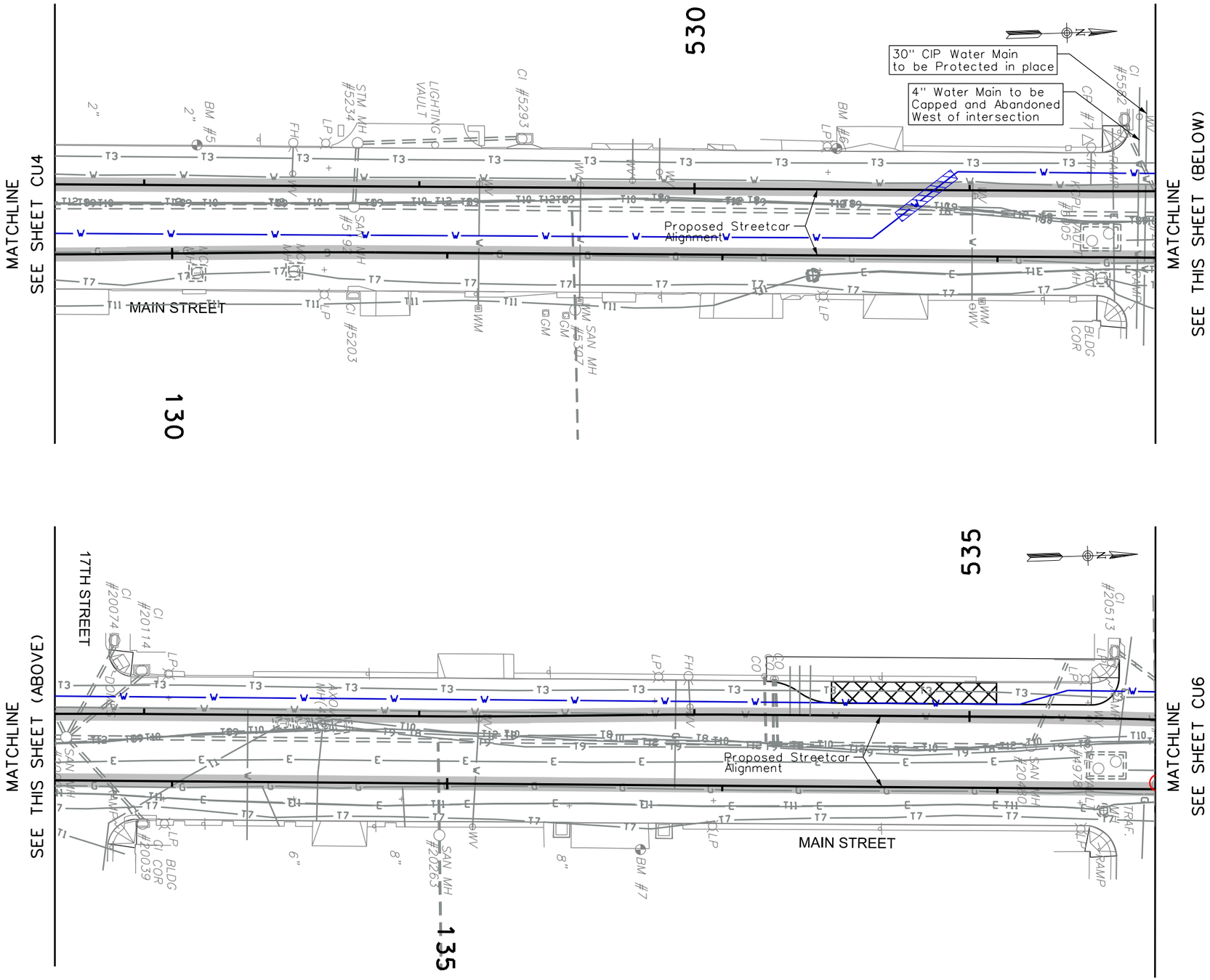
KANSAS CITY DOWNTOWN STREETCAR

Conceptual

Utility Improvement Drawings

SHEET NO. CU4

PLOT DATE: 11/5/2012 1:08:25 PM BY: HDR - Streetcar



GRAPHIC SCALE

0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

2) ALIGNMENT SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE

SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY –	DATE APPROVED –
CU5				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 05_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:10:12 PM

ADVANCED CONCEPTUAL ENGINEERING SUBMITTAL

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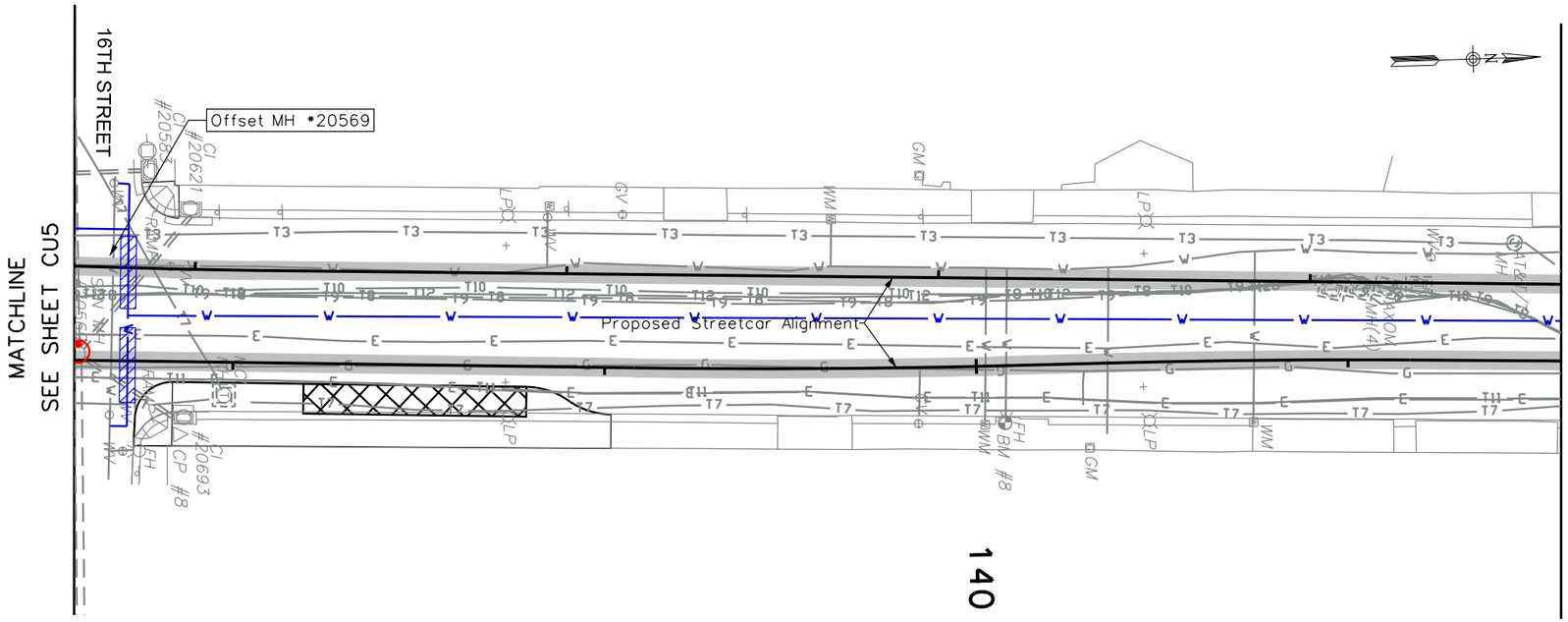
KANSAS CITY DOWNTOWN STREETCAR

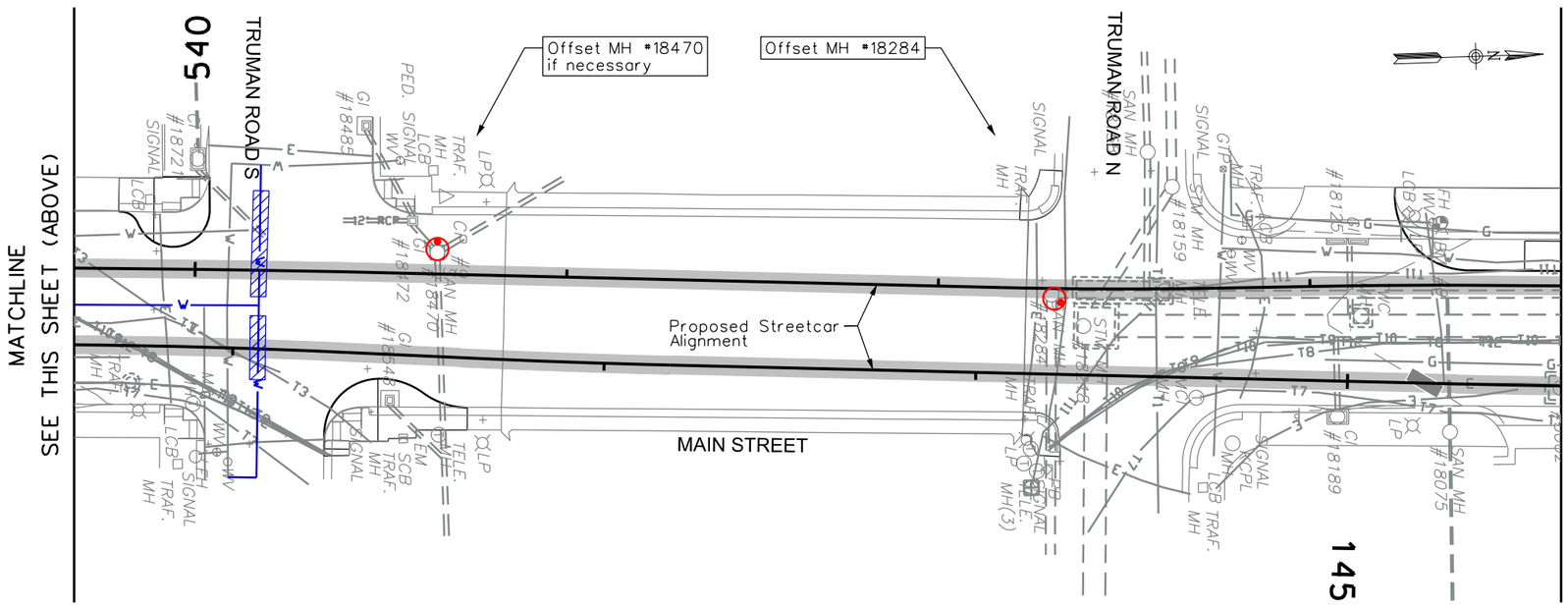
Conceptual

Utility Improvement Drawings

SHEET NO. CU5

PLOT DATE: 11/5/2012 1:10:12 PM BY: HDR - Streetcar





GRAPHIC SCALE

0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

2) ALIGNMENT SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE

SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY	DATE APPROVED
CU6				–	–
				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 06_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:20:58 PM

KC Downtown Streetcar

ADVANCED CONCEPTUAL ENGINEERING SUBMITTAL

NOT FOR CONSTRUCTION

HGC Consult Inc engineers

HDR Engineering, Inc.

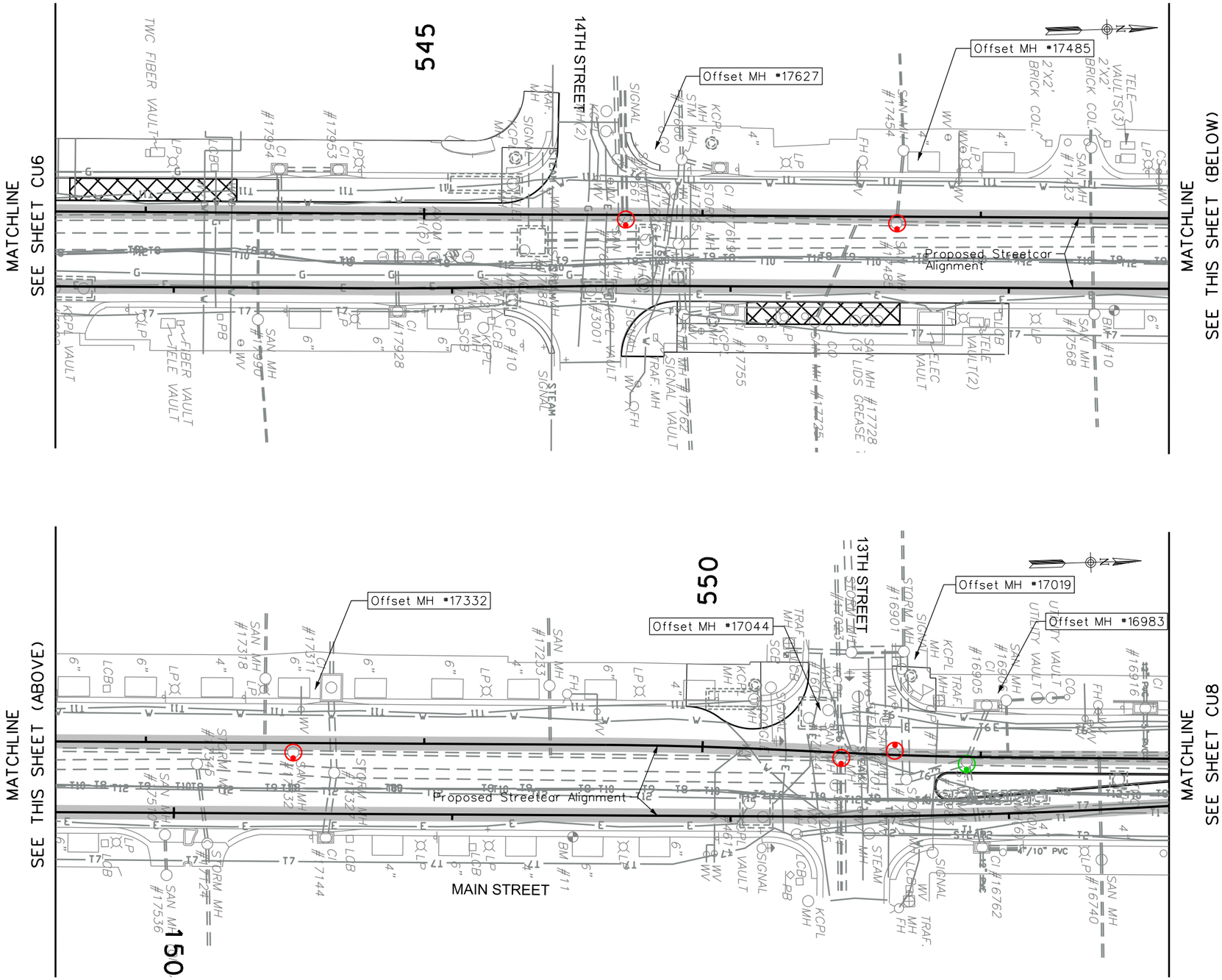
KANSAS CITY DOWNTOWN STREETCAR

Conceptual

Utility Improvement Drawings

SHEET NO. CU6

PLOT DATE: 11/5/2012 1:20:58 PM BY: HDR - Streetcar



GRAPHIC SCALE

0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

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SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY	DATE APPROVED
CU7				–	–
				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 07_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:22:20 PM

KC Downtown Streetcar

ADVANCED CONCEPTUAL ENGINEERING SUBMITTAL

NOT FOR CONSTRUCTION

HDR Consult Inc engineers

HDR Engineering, Inc.

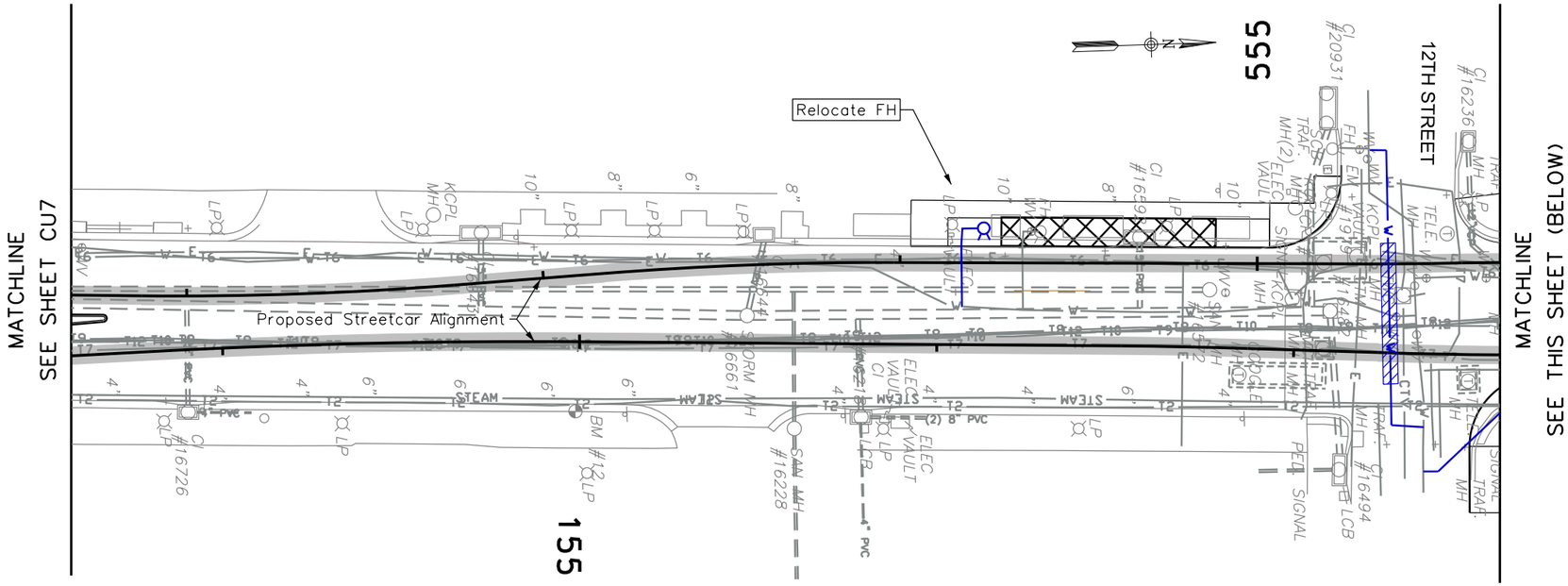
KANSAS CITY DOWNTOWN STREETCAR

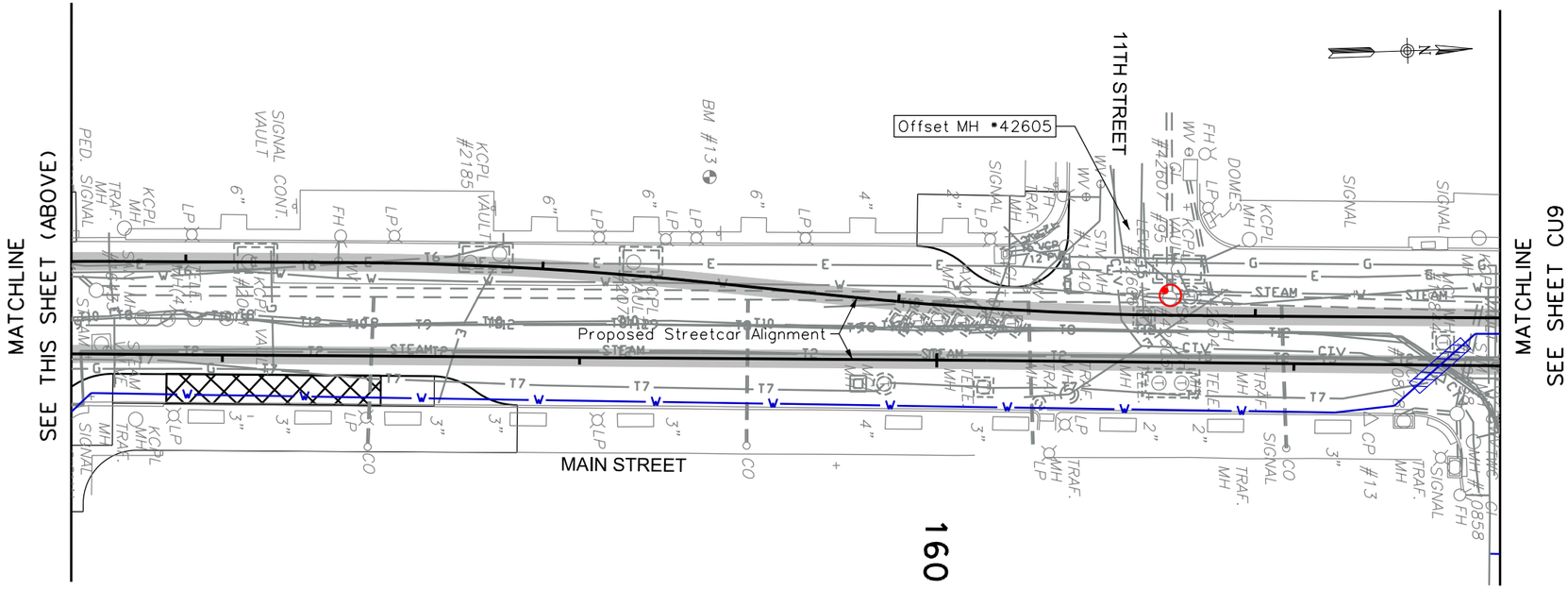
Conceptual

Utility Improvement Drawings

SHEET NO. CU7

PLOT DATE: 11/5/2012 1:22:20 PM BY: HDR - Streetcar





GRAPHIC SCALE
0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

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SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY –	DATE APPROVED –
CU8				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 08_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:23:55 PM

ADVANCED CONCEPTUAL ENGINEERING SUBMITTAL

NOT FOR CONSTRUCTION

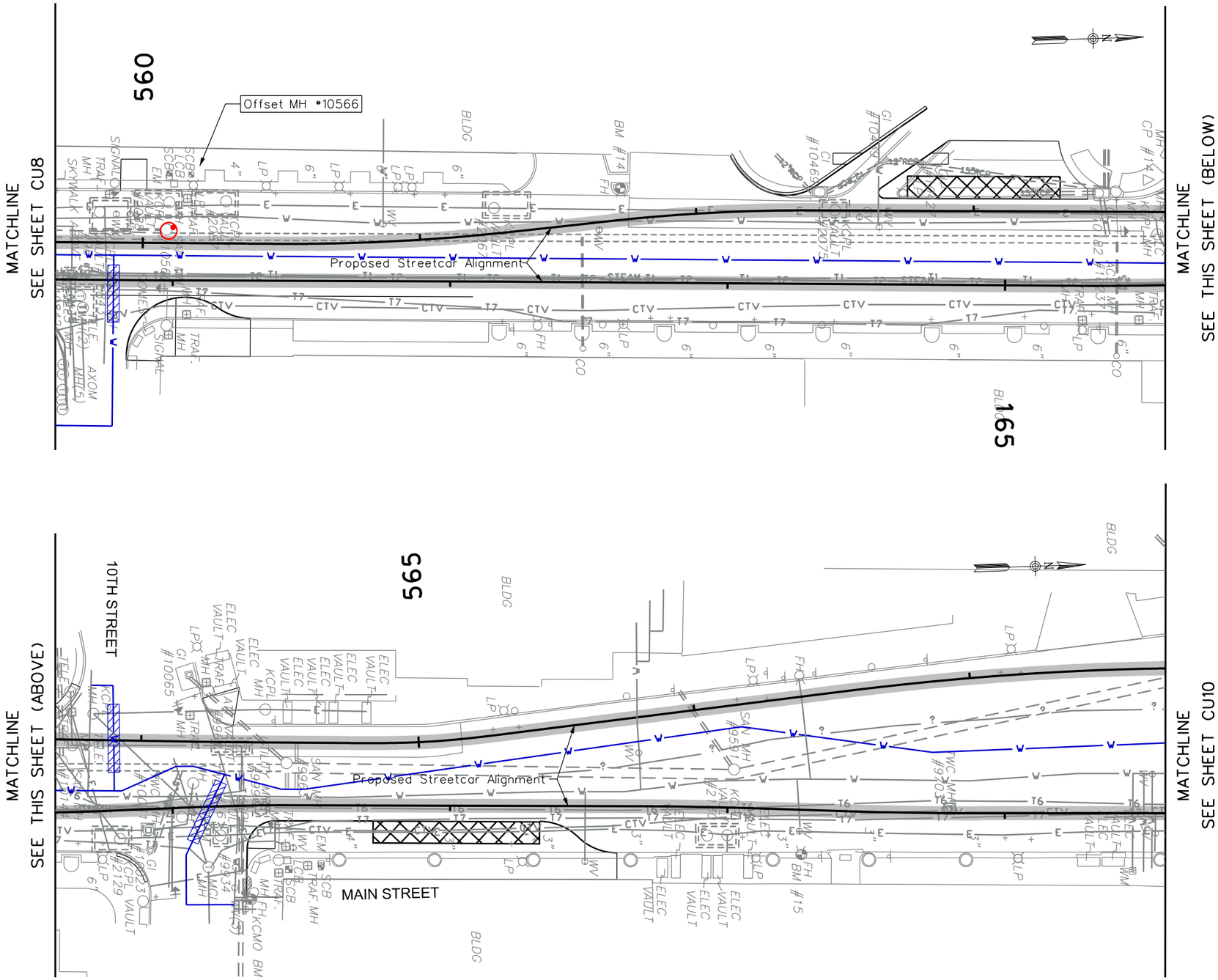
KANSAS CITY DOWNTOWN STREETCAR

Conceptual

Utility Improvement Drawings

SHEET NO. CU8

PLOT DATE: 11/5/2012 1:23:55 PM BY: HDR - Streetcar



GRAPHIC SCALE

0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

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SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY –	DATE APPROVED –
CU9				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 09_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:25:22 PM

KC Downtown Streetcar

ADVANCED CONCEPTUAL ENGINEERING SUBMITTAL

NOT FOR CONSTRUCTION

Consult Inc engineers

HDR Engineering, Inc.

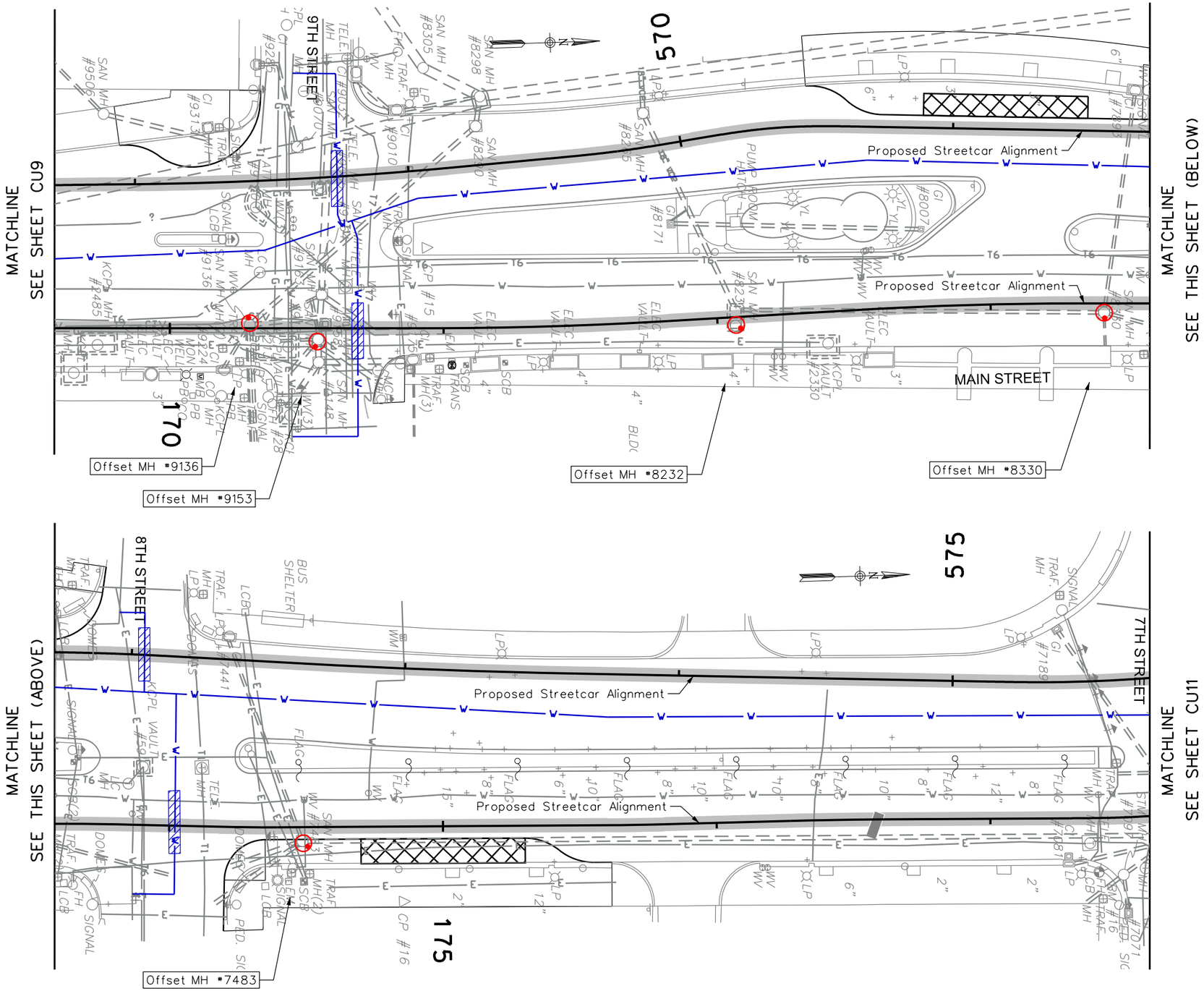
KANSAS CITY DOWNTOWN STREETCAR

Conceptual

Utility Improvement Drawings

SHEET NO. CU9

PLOT DATE: 11/5/2012 1:25:22 PM BY: HDR - Streetcar



GRAPHIC SCALE

0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

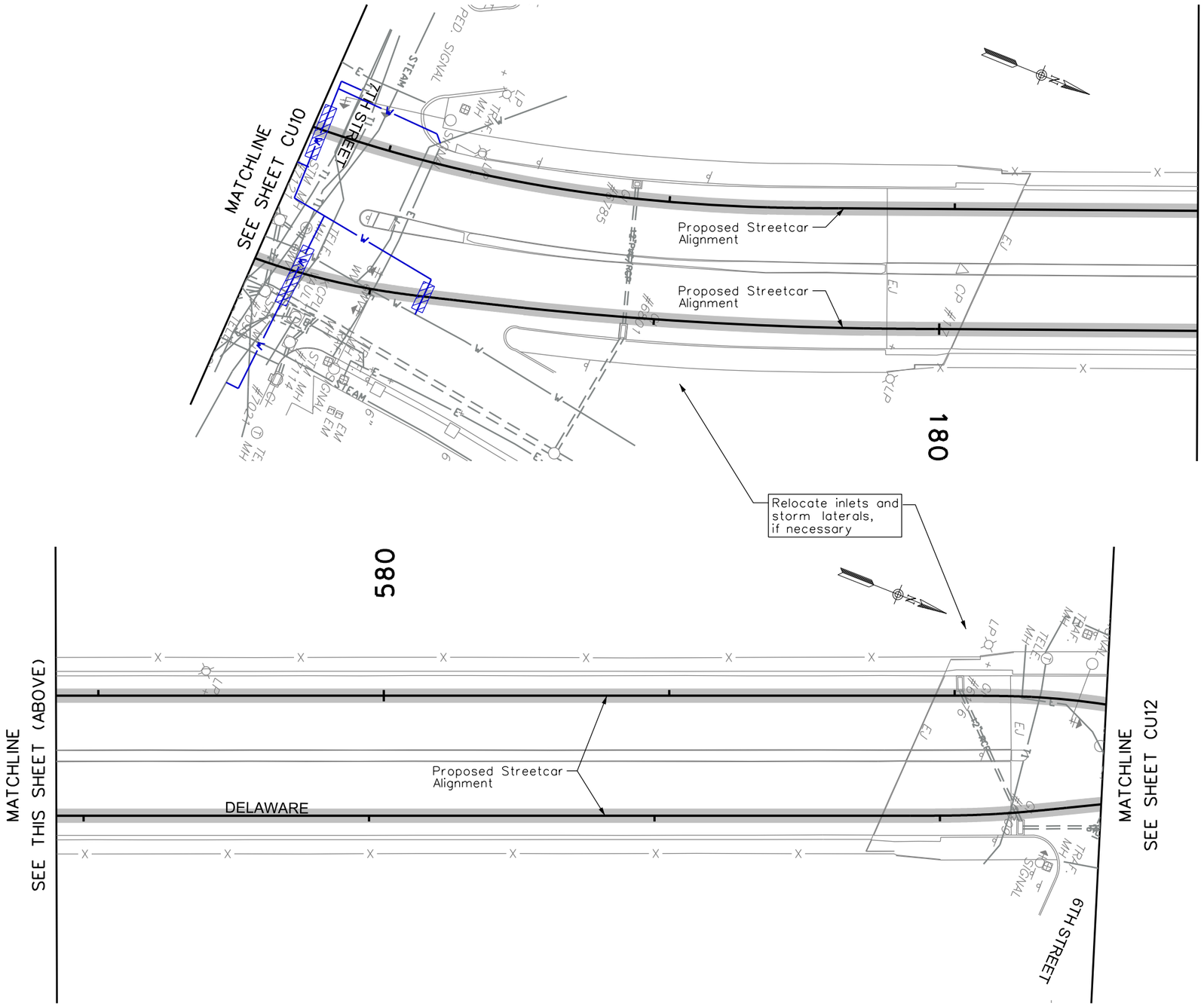
GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

2) ALIGNMENT SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE

SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY –	DATE APPROVED –		ADVANCED CONCEPTUAL ENGINEERING SUBMITTAL		KANSAS CITY DOWNTOWN STREETCAR	SHEET NO.
CU10				DRAWN BY –	DIV. ENGINEER –	KC Downtown Streetcar	NOT FOR CONSTRUCTION	HDR Consult Inc engineers / HDR Engineering, Inc.	Conceptual Utility Improvement Drawings	CU10
	SHEET FILE: 10_Conceptual Utility Improvements.dgn			CHECKED BY –						
				APPROVED BY –						

PLOT DATE: 11/5/2012 1:27:25 PM BY: HDR - Streetcar



GRAPHIC SCALE

0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

2) ALIGNMENT SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE

SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY –	DATE APPROVED –
CU11				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 11_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:28:08 PM

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HDR Engineering, Inc.

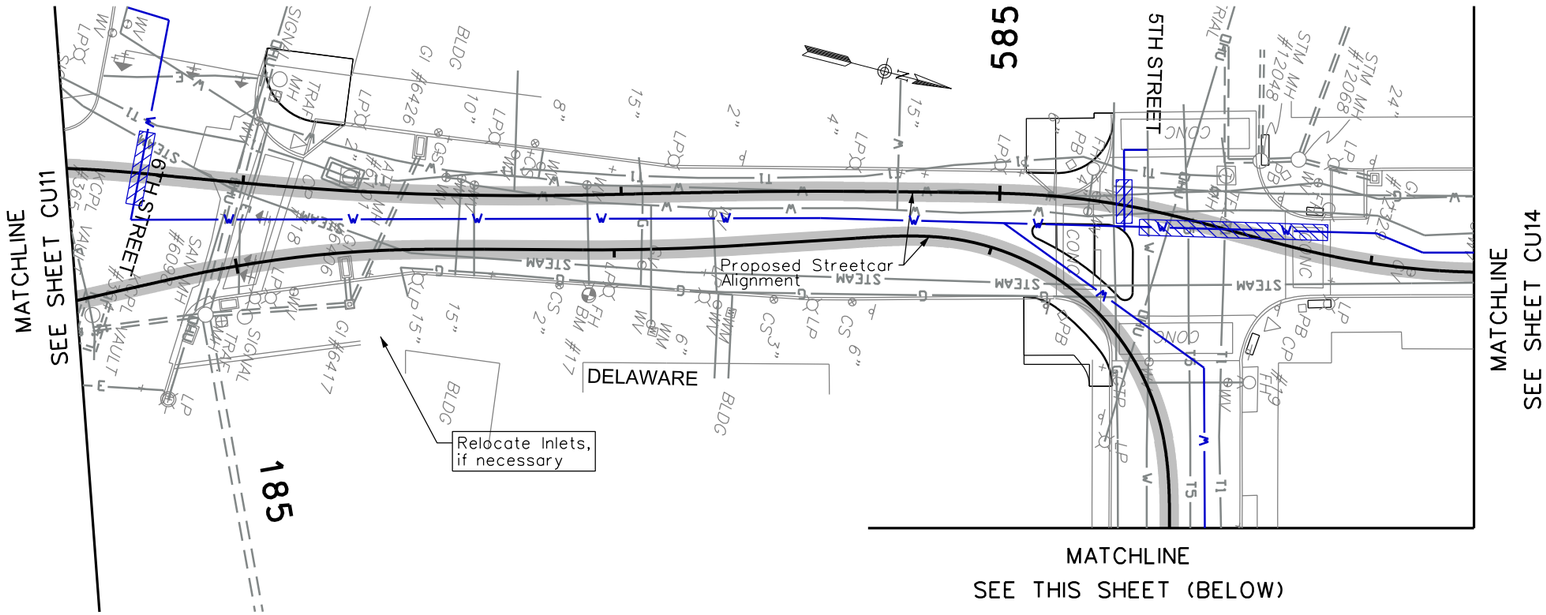
KANSAS CITY DOWNTOWN STREETCAR

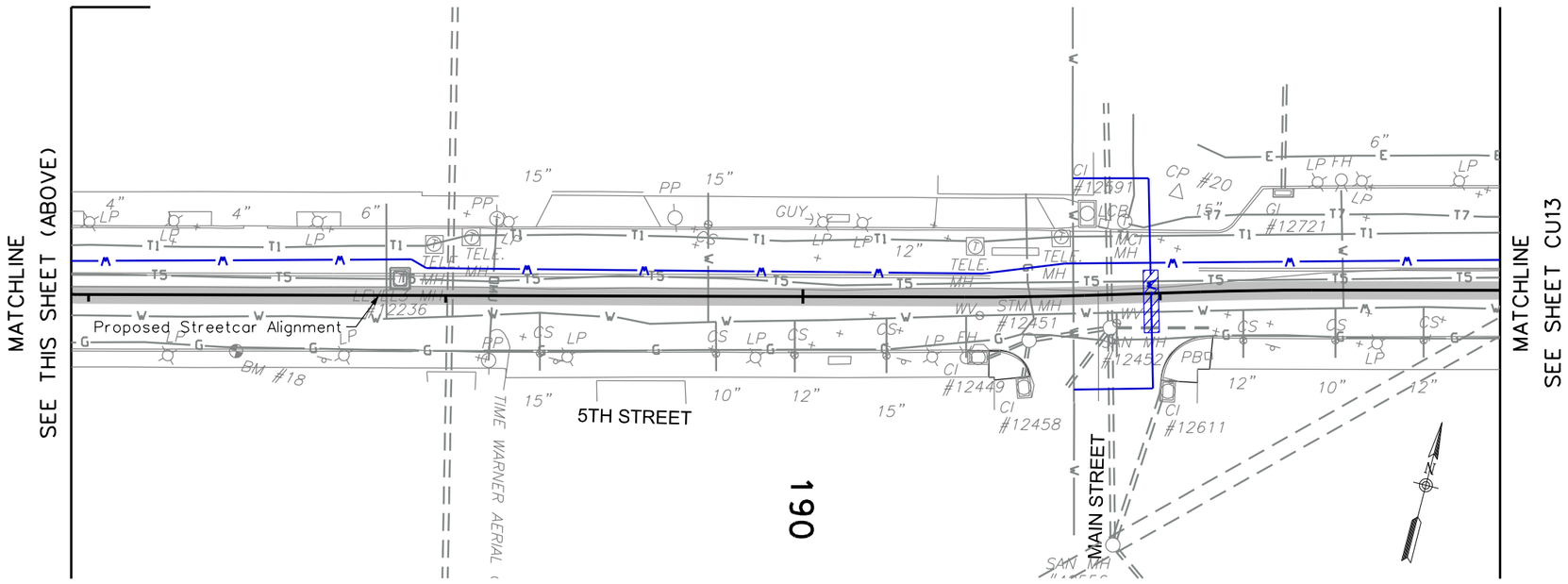
Conceptual

Utility Improvement Drawings

SHEET NO. CU11

PLOT DATE: 11/5/2012 1:28:08 PM BY: HDR - Streetcar





GRAPHIC SCALE
0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

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SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY –	DATE APPROVED –
CU12				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 12_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:29:06 PM

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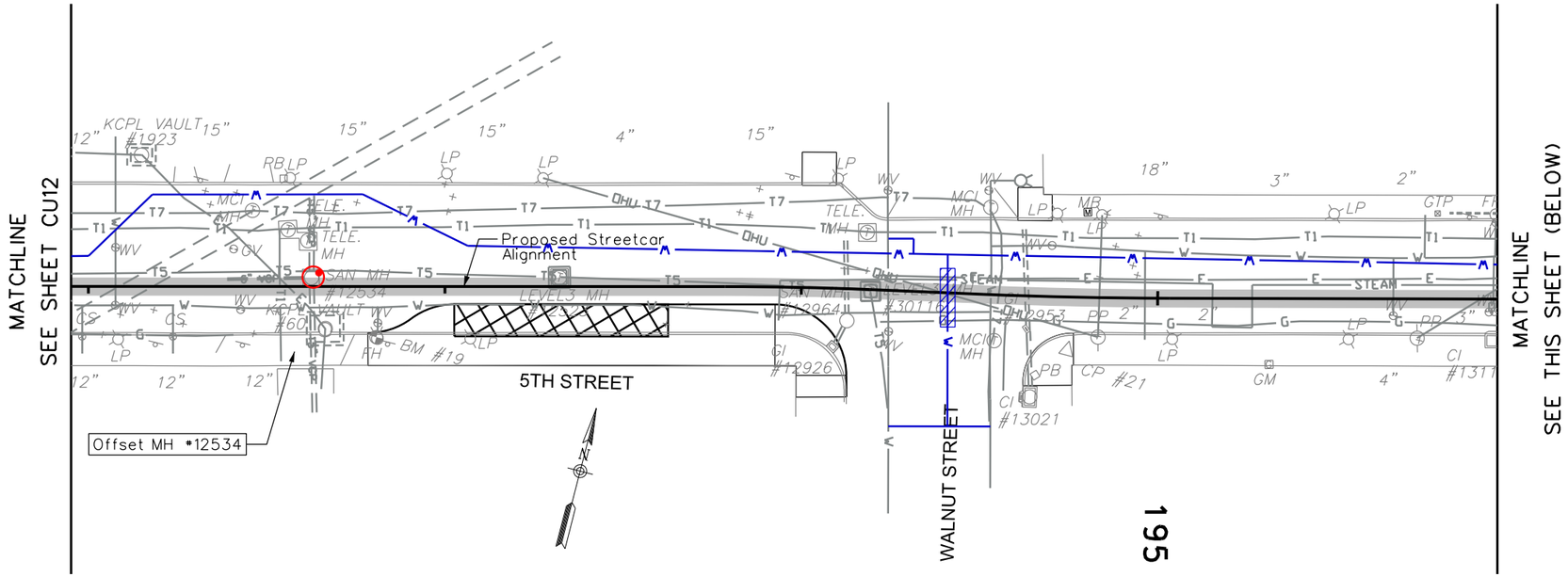
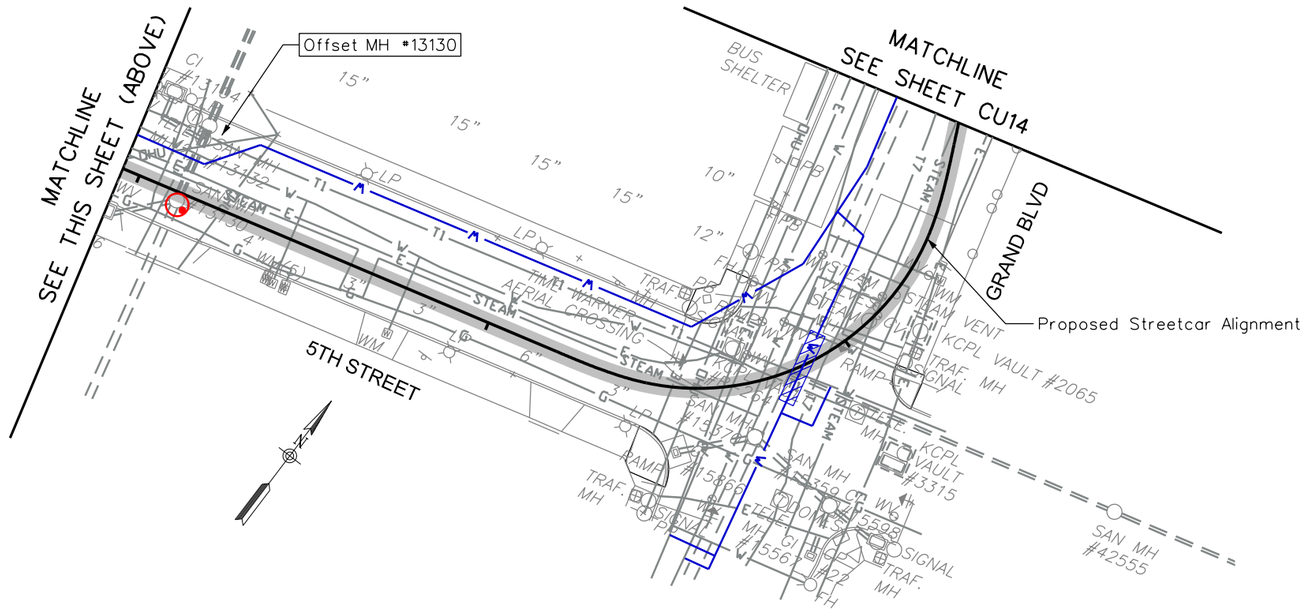
Utility Improvement Drawings

SHEET NO. CU12

PLOT DATE: 11/5/2012 1:29:06 PM BY: HDR - Streetcar





GRAPHIC SCALE
0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

2) ALIGNMENT SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE

SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY –	DATE APPROVED –
CU13				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 13_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:29:48 PM

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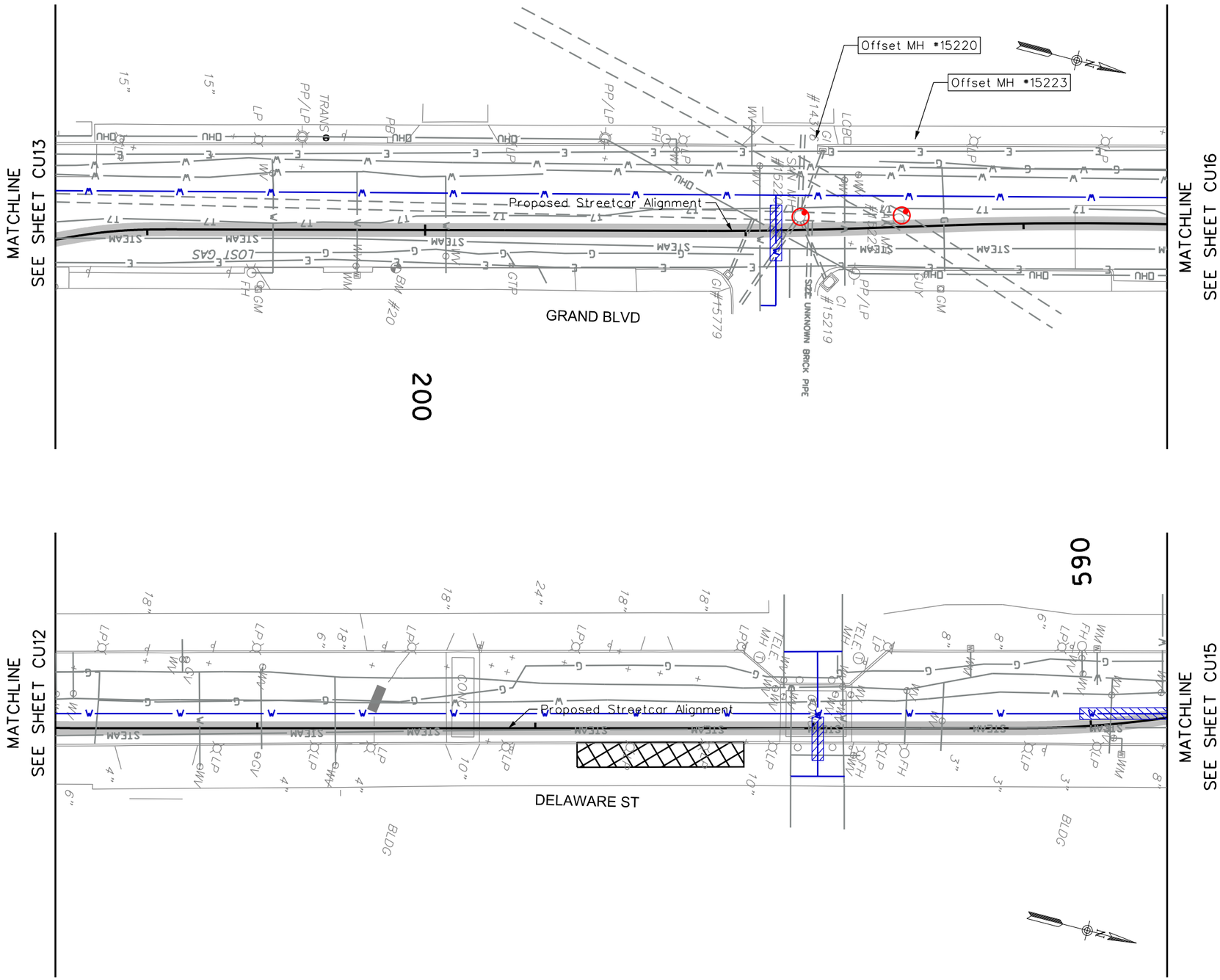
Conceptual

Utility Improvement Drawings

SHEET NO. CU13



LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

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SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY –	DATE APPROVED –
CU14				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 14_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:30:27 PM

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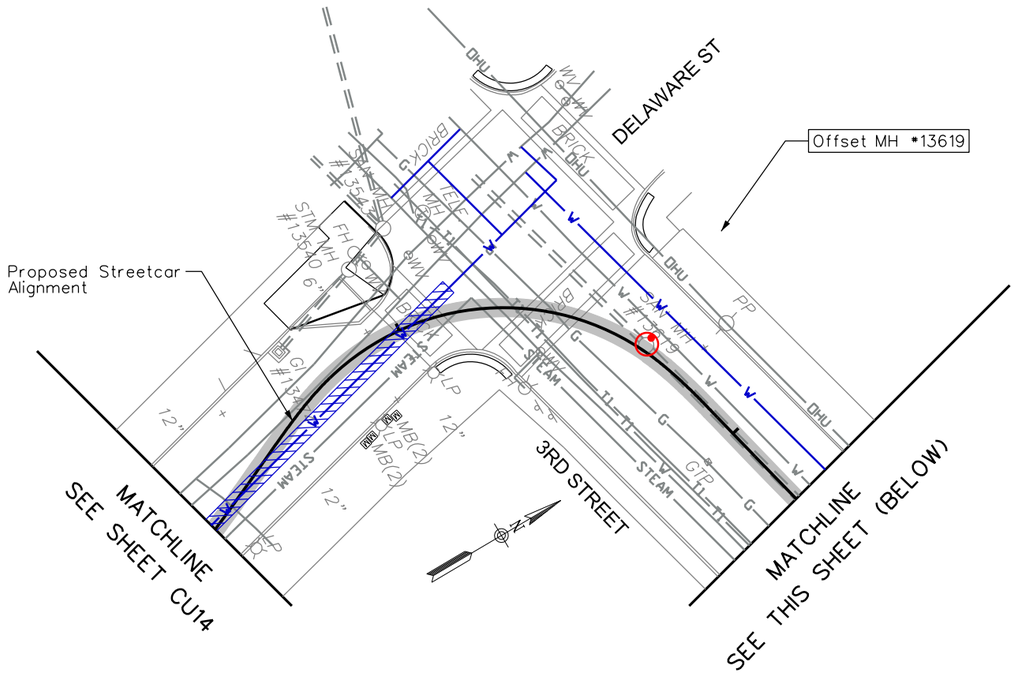
SHEET NO. CU14

PLOT DATE: 11/5/2012 1:30:27 PM BY: HDR - Streetcar

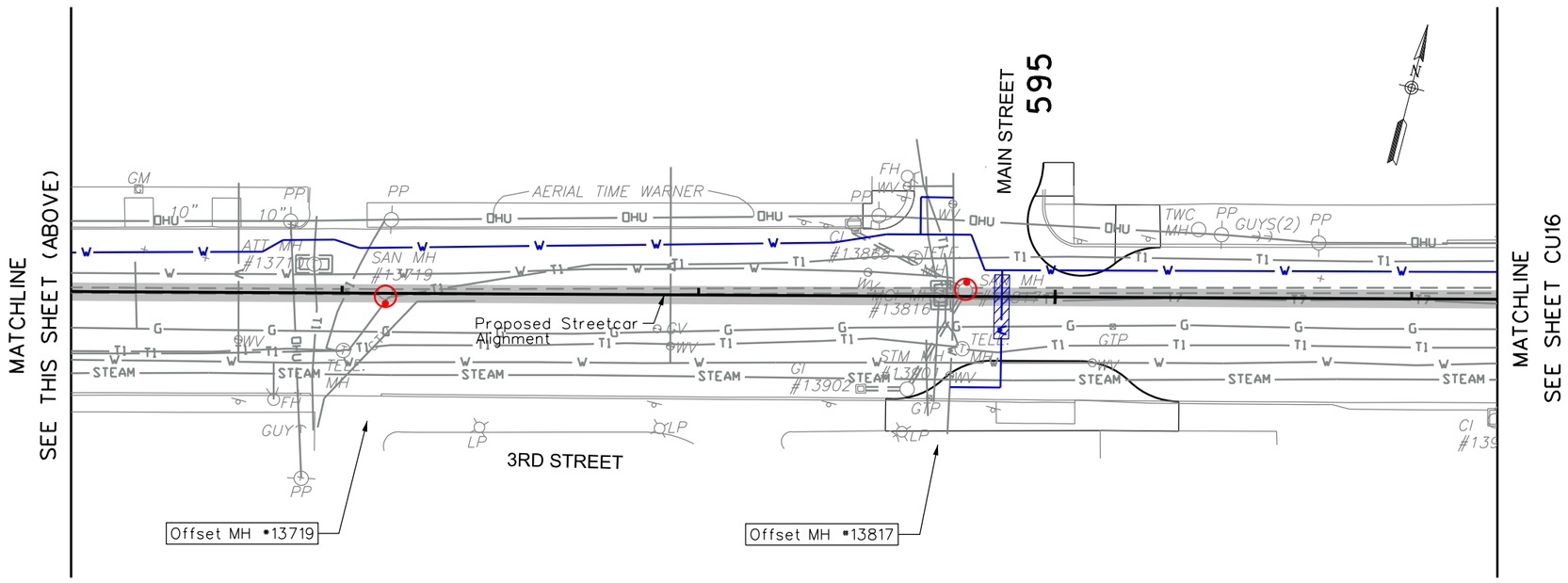


GRAPHIC SCALE

0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE



GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

2) ALIGNMENT SHOWN IS CONCEPTUAL AND SUBJECT TO CHANGE

SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY –	DATE APPROVED –
CU15				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 15_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:31:20 PM

KC Downtown Streetcar

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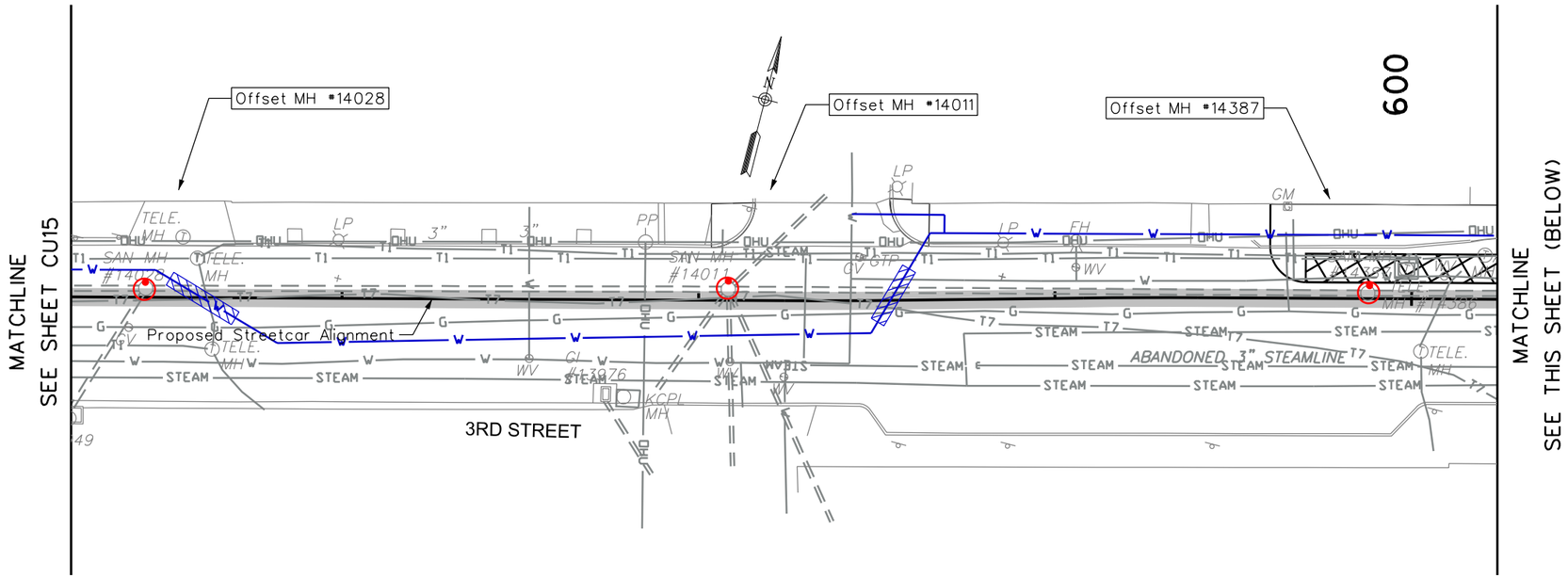
KANSAS CITY DOWNTOWN STREETCAR

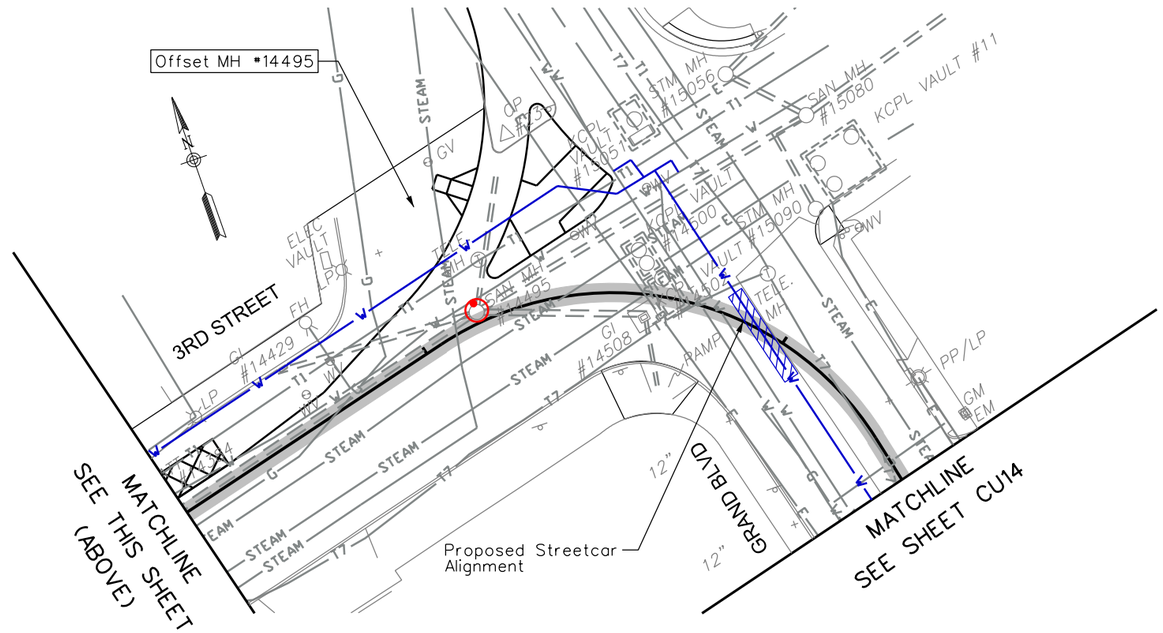
Conceptual

Utility Improvement Drawings

SHEET NO. CU15

PLOT DATE: 11/5/2012 1:31:20 PM BY: HDR - Streetcar





GRAPHIC SCALE

0 20 40

LEGEND

G	MISSOURI GAS ENERGY (GAS)
E	KCP&L (UNDERGROUND ELECTRIC)
OHU	KCP&L (OVERHEAD ELECTRIC)
E	SIGNALS (UNDERGROUND ELECTRIC)
STEAM	VEOLIA ENERGY (STEAM)
CTV	TIME WARNER CABLE (CABLE TV)
T1	TIME WARNER CABLE (TELECOM)
T2	ACSI/TW TELECOM (TELECOM)
T3	AT&T (TELECOM)
T4	KC SCOUT (TELECOM)
T5	LEVEL 3 (TELECOM)
T6	LIGHTCORE (TELECOM)
T7	MCI/VERIZON (TELECOM)
T8	QWEST (TELECOM)
T9	SPRINT (TELECOM)
T10	ZAYO (TELECOM)
T11	GOOGLE (TELECOM)
T12	SUREWEST (TELECOM)
T13	NKC (TELECOM)
	TRACK REGION
W	KCMO WATER LINE
W	KCMO WATER LINE (MAP)
	KCMO STORM/SANITARY SEWER
W	CONCEPTUAL KCMO WATER LINE LOCATION
	OFFSET STORM/SANITARY SEWER MANHOLE

GENERAL NOTES:

1) UTILITY COMPOSITE DRAWINGS A WORK IN PROGRESS AND FOR INFORMATION ONLY

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SHEET NO.	ISSUE	DATE	DESCRIPTION	DESIGNED BY –	DATE APPROVED –
CU16				DRAWN BY –	DIV. ENGINEER –
				CHECKED BY –	
				APPROVED BY –	

SHEET FILE: 16_Conceptual Utility Improvements.dgn PLOT DATE: 11/5/2012 1:32:13 PM

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SHEET NO. CU16

PLOT DATE: 11/5/2012 1:32:13 PM BY: HDR - Streetcar