## CITY OF CARMEL UTILITIES CONTROLL OF CARMEL, INDIANA OF DIVISION A & BROWN UNSERVED AREAS CARMEL WEST AND HOME PLACE





Uz 19 Sourn East Street Indianapolis, Indiana 46227 Phone: (317) 788-4551 - Fax: (317) 788-4553

PROJECT NO. 206518-04-002



**AUGUST 2019** 



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	10300 STATE	048)	in the state of th	DI





DRAWING INDEX SHEET NO. WATER MAIN - LINE M - CREEKWOOD LN

SHEET	DESCRIPTION
NO.	ETS - DIVISION B
23	WATER MAIN - LINE A - PENN DR
24	WATER MAIN - LINE B - VALI DR
25 - 26	WATER MAIN - LINE B1 - 108TH ST
26	WATER MAIN - LINE C - PAM RD
27	WATER MAIN - LINE B2 - CENTRAL AVE
28	WATER MAIN - LINE D - VALL CT
28	WATER MAIN - LINE D - VALI CT
29	WATER MAIN - LINE E - STEPHEN CT
30	WATER MAIN - LINE G - VISTA DR
30	WATER MAIN - LINE H - RUCKLE ST
31	WATER MAIN - LINE I - RUCKLE ST
31	WATER MAIN - LINE J - 108TH ST
32	WATER MAIN - LINE K - ARTHUR DR
33	WATER MAIN - LINE M - BARBEE LN AND BARMORE AVE
34	WATER MAIN - LINE N - BROADWAY AVE
35	WATER MAIN - LINE N1 - VISTA DR
35	WATER MAIN - LINE O - BELLEFONTAINE ST
36	WATER MAIN - LINE P - JESSUP BLVD
36	WATER MAIN - LINE Q - 104TH ST AND JESSUP BLVD
37	WATER MAIN - LINE R - MCPHERSON ST
37	WATER MAIN - LINE S - 104TH ST
38	WATER MAIN - LINE T - WILLOWMERE DR
39 - 40	WATER MAIN - LINE U - BEECHWOOD DR
41	WATER MAIN - LINE V - HIGHLAND DR
41 - 42	WATER MAIN - LINE W - 106TH ST
43	WATER MAIN - LINE X - ECHO CREST DR
44	WATER MAIN - LINE Y - WINDING BROOK DR
45	WATER MAIN - LINE Z - MARBRO LN
45	WATER MAIN - LINE AA - 110TH ST
46	WATER MAIN - LINE BB - 109TH ST
47	WATER MAIN - LINE CC - MIDDLE DR
47	WATER MAIN - LINE DD - NORRISTON DR
48	WATER MAIN - LINE EE - WESTFIELD BLVD
MAINTENA	NCE OF TRAFFIC
49	MAINTENANCE OF TRAFFIC
MISCELLAN	NEOUS DETAILS
50-54	MISCELLANEOUS DETAILS
EROSION O	CONTROL DETAILS
55-56	EROSION CONTROL DETAILS

JRW REVISION DESCRIPTIONS DED ADG AUGUST 2019 206518-04-002



**WATER SYSTEM IMPROVEMENTS** 

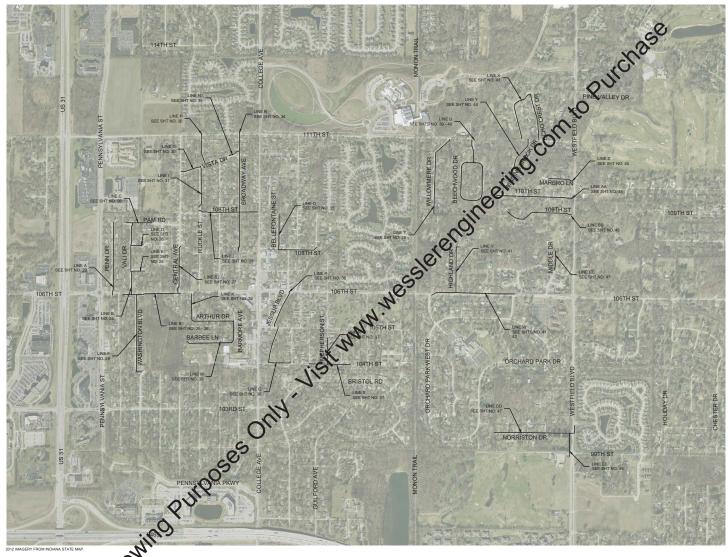
CITY OF CARMEL UTILITIES
DIVISION A & B - UNSERVED AREAS CARMEL WEST AND HOME PLACE

**LOCATION PLAN AND DRAWING INDEX** 

SHEET NO. 02 TOTAL SHEETS

56





LOCATION AND SCOPE OF WORK PLAN - DIVISION B

$-\sim$							
SCALE FR ICATION	DRAWN BY	JRW	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	
<b>Y</b>	CHECKED BY	DED	L				
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	APPROVED BY	ADG	$\vdash$				13
ORIGINAL DRAWING	ISSL	JE DATE	⊢				10
	AUGU	IST 2019					
	PROJEC	CT NUMBER					<u> </u>
	20651	3-04-002					A.



W	ATER SYSTEM	<b>IMPROVEM</b>	ENTS	
	CITY OF CAR	MEL UTILITIES		
DIVIDIONI A O D	LINICEDVED ADEAC	O A DAMEL MATE	T AND HOME	<b>DI</b> 4

DIVISION A & B - UNSERVED AREAS CARMEL WEST AND HOME PLACE

**LOCATION PLAN** 

SHEET NO. **03** 

TOTAL SHEETS



HORIZONTAL AND VERTICAL CONTROL CHORMATION

A FIELD SULVEY VALVERFORMED FROM JULY TO OCTOBER 201

COORDINATE (INDIANA STATE PLANE, EAST ZONE, NAD 83) AND

UNITS FR U.S SURVEY FEET.

CONTROL POINTS WERE SET USING G

	CONTROL POINTS						
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION			
35	1710830.54	178734.30	875.0	MAGNAIL			
36	1710614.34	178429.04	877.5	MAGNAIL			
37	1710331.31	178269.56	872.8	MAGNAIL			
38	1710116.40	178247.03	873.1	MAGNAIL			
39	1711261.07	178247.90	881.0	MAGNAIL			
40	1711689.95	178222.38	878.1	MAGNAIL			
41	1711652.16	178534.26	878.6	MAGNAIL			
42	1711857.21	178248.72	872.2	MAGNAIL			
43	1712185.86	178248.99	875.5	MAGNAIL			
44	1712172.00	179490.30	876.1	MAGNAIL			
45	1711833.86	179463.21	866.8	MAGNAIL			
46	1712868.86	183840.97	852.7	MAGNAIL			
47	1713028.28	184272.30	852.3	MAGNAIL			
48	1712999.35	184671.28	852.4	MAGNAIL			
49	1712676.26	184905.56	853.5	MAGNAIL			
50	1712274.93	184041.67	853.4	MAGNAIL			
51	1704797.07	170279.15	884.2	MAGNAIL			
52	1704902.55	170728.68	884.0	MAGNAIL			
53	1705095.43	171348.09	874.7	5/8" REBAR			
54	1711935.49	172217.84	901.3	5/8" REBAR			
55	1712349.19	172247.97	904.9	MAGNAIL			

CONTROL POINTS							
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION			
56	1711975.07	172034.92	902.3	MAGNAIL			
57	1712024.07	171677.41	902.6	MAGNAIL			
58	1711934.70	171376.36	903.3	MAGNAIL			
59	1711708.87	171234.02	901.9	MAGNAIL			
60	1711134.43	171216.47	899.4	MAGNAIL			
61	1711533.41	171936.85	900.0	MAGNAIL			
62	1715467.66	187029.46	855.7	MAGNAIL			
63	1715198.00	187026.14	857.0	MAGNAIL			
64	1719403.69	189143.39	855.0	MAGNAIL			
65	1719120.99	189084.05	854.7	MAGNAIL			
67	1718952.96	188919.93	857.1	MAGNAIL			
102	1712907.09	183126.63	857.2	MAGNAIL			
119	1727159.48	171481.91	909.0	MAGNAIL			
120	1727157.16	171864.12	909.9	MAGNAIL			
121	1727158.98	172202.62	911.1	MAGNAIL			
122	1727142.48	172518.55	911.2	MAGNAIL			
123	1730845.80	180901.61	911.2	5/8" REBAR			
124	1730838.26	180241.92	912.5	MAGNAIL			
125	1730589.12	180908.62	913.5	MAGNAIL			
126	1730321.41	180944.12	912.0	MAGNAIL			
127	1730198.16	180884.90	913.4	MAGNAIL			



WATER SYSTEM IMPROVEMENTS

CITY OF CARMEL UTILITIES
DIVISION A & B - UNSERVED AREAS CARMEL WEST AND HOME PLACE

**SURVEY CONTROL PLAN** 

SHEET NO.

04

TOTAL SHEETS

56



REVISION DESCRIPTIONS

WESSLER

JRW

DED

ADG

AUGUST 2019

206518-04-002

CHECKED BY

## HORIZONTAL AND VERTICAL CONTROL INFORMATION

_	(1-			
J.C	)	CONTROL		
PNNT	NORTHING	EASTING	ELEVATION	DESCRIPTION
<u>)</u> ∗i	1711191.20	196685.49	833.8	MAGNAIL
2	1711540.00	196669.51	837.3	MAGNAIL
3	1711881.95	196681.53	836.1	MAGNAIL
4	1712174.47	196688.01	836.5	MAGNAIL
5	1712429.23	196922.27	836.0	MAGNAIL
6	1712095.35	197360.94	831.1	MAGNAIL
7	1712437.50	197289.61	828.7	5/8" REBAR
8	1711960.73	197133.02	834.4	MAGNAIL
9	1711676.04	197153.45	833.6	MAGNAIL
10	1711463.90	197145.77	834.1	MAGNAIL
11	1711442.47	197475.66	830.7	MAGNAIL
12	1711684.54	197519.49	830.4	MAGNAIL
13	1711960.95	197539.77	832.3	MAGNAIL
14	1710588.91	197071.74	831.9	5/8" REBAR
15	1710206.46	197054.60	827.3	MAGNAIL
16	1709951.69	197068.36	827.8	MAGNAIL
17	1709771.19	197056.20	831.9	MAGNAIL
18	1709782.08	196715.27	832.3	MAGNAIL
19	1709762.06	197517.83	829.9	MAGNAIL
20	1709702.00	198044.10	813.8	5/8" REBAR
21	1711901.88	197987.50	812.3	MAGNAIL
22	1711901.88	198073 99	811.6	MAGNAIL
23	1712429.65	198324.86	810.4	5/8" REBAR
				MAGNAIL
24	1712611.72	198124.99	814.0	
25	1712967.33	198043.16	820.5	MAGNAIL
26	1713197.65	198283.19	831.9	5/8" REBAR
27	1712903.16	198400.48	824.1	MAGNAIL
28	1710563.86	198749.78	806.7	5/8" REBAR
29	1710234.12	198751.52	802.4	5/8" REBAR
30	1710119.27	198726.31	800.6	MAGNAIL
31	1707420.77	197831.43	805.2	MAGNAIL
32	1707428.80	198289.22	814.9	MAGNAIL
33	1707411.51	199073.04	803.9	5/8" REBAR
34	1707128.19	199072.08	800.6	5/8" REBAR
68	1710942.24	191218.89	843.8	MAGNAIL
69	1710588.10	191192.85	842.8	MAGNAIL
71	1709801.90	191173.17	846.9	5/8" REBAR
72	1709840.94	191575.86	845.4	5/8* REBAR
73	1710228.34	191503.71	843.7	MAGNAIL
74	1710191.45	191678.37	844.7	MAGNAIL
75	1710610.88	191505.32	842.3	MAGNAIL
76	1710613.08	191723.73	843.9	MAGNAIL
77	1710977.57	191500.07	841.1	MAGNAIL
78	1709587.11	191612.80	845.2	MAGNAIL
79	1708955.12	191593.25	844.8	MAGNAIL
80	1708506.78	191593.25	845.5	MAGNAIL
81	1712468 70	193355 32	850.7	MAGNAIL
82	1712282.51	193374.10	851.1	MAGNAIL
83	1712146.49	193247.48	852.2	MAGNAIL
84	1711893.43	193374.60	852.9	MAGNAIL
85	1711499.09	193378.04	850.9	MAGNAIL
86	1711160.71	193377.74	850.4	MAGNAIL
87	1710657.33	193361.81	851.0	MAGNAIL
88	1711169.32	192712.38	847.1	MAGNAIL

		(	CONTROL	POINTS	
N	POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
	89	1711589.93	192690.33	848.6	MAGNAIL
	90	1711967.38	192695.06	850.2	MAGNAIL
	91	1711866.85	192455.75	851.4	MAGNAIL
	92	1712126.20	192734.90	851.4	MAGNAIL
	93	1712459.17	192713.16	851.3	MAGNAIL
	94	1710567.65	194012.85	845.0	5/8" REBAR
	95	1710876.89	194032.60	848.1	MAGNAIL
Π	96	1709852.28	192324.85	847.6	5/8" REBAR
	97	1709784.11	192553.67	847.1	MAGNAIL
	98	1708459.94	191725.95	844.4	MAGNAIL
	99	1708224.15	191671.20	844.4	MAGNAIL
Т	100	1709389.13	192601.99	846.4	5/8" REBAR
Π	101	1709336.46	192799.46	845.9	MAGNAIL
	103	1709360.87	193300.40	844.5	MAGNAIL
	104	1709006.08	193298.28	848.3	5/8" REBAR
	105	1708993.01	193076.37	852.6	MAGNAIL
	106	1708974.71	192844.33	847.7	MAGNAIL
	108	1709788.52	194210.32	843.6	5/8" REBAR
	109	1709534.44	194044.48	841.2	5/8* REBAR
	110	1709256.53	193927.92	843.6	5/8" REBAR
	111	1709183.98	194020.20	841.4	MAGNAIL
Ī	112	1708831.86	193900.01	842.6	MAGNAIL
Ī	113	1708614.07	193997.54	841.4	MAGNAIL
Ī	114	1708609.74	194248.38	840.9	MAGNAIL
	115	1708617.03	194577.57	840.2	MAGNAIL
	116	1708614.17	194880.38	835.8	MAGNAIL
	117	1708587.94	195188.93	833.9	MAGNAIL
Ī	118	1708876.02	194859.02	836.3	MAGNAIL
Ī	128	1710446.74	192348.80	849.3	MAGNAIL
	129	1710782.22	192350.32	848.4	MAGNAIL
	130	1710080.16	192349.71	848.7	MAGNAIL
	131	1711765.53	198953.22	809.9	MAGNAIL
Ī	132	1711762.89	198714.86	809.7	MAGNAIL
Ī	133	1711456.25	198887.82	805.3	MAGNAIL
	134	1711467.00	198598.63	801.4	MAGNAIL
	135	1711483.24	198413.52	800.1	MAGNAIL
	136	1711489.72	198236.95	803.7	MAGNAIL
	137	1711484.09	198071.59	808.2	MAGNAIL
	138	1711490.61	197874.65	812.2	MAGNAIL
	139	1711181.78	198830.02	796.0	MAGNAIL
	140	1711172.37	198663.54	795.6	MAGNAIL
Ī	141	1711179.19	198467.22	797.0	MAGNAIL
	142	1711159.21	198333.35	799.7	MAGNAIL
	143	1711059.16	198177.21	812.6	MAGNAIL
	144	1711131.36	198009.40	814.1	MAGNAIL
T	145	1710580.82	194299.03	847.9	MAGNAIL
	146	1710589.81	194683.88	852.7	MAGNAIL
	147	1710579.43	194386.32	847.3	MAGNAIL
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**WATER SYSTEM IMPROVEMENTS** 

CITY OF CARMEL UTILITIES
DIVISION A & B - UNSERVED AREAS CARMEL WEST AND HOME PLACE

SURVEY CONTROL PLAN

SHEET NO. 05 TOTAL SHEETS

56

YMBOL	DESCRIPTION	SYMBOL	ING FEATURES  DESCRIPTION	N	SYMBOL	DESCRIPTION
ě	BENCH MARK	(B)	CISTERN			EASEMENT - CONSTRUCTION/PERMANENT
₩	TEMPORARY BENCH MARK	ď	ELECTRIC METER			LOT BOUNDARY
Ψ •	SOIL BORING LOCATION	<u> </u>	AIR CONDITIONING UNIT		е	PROPERTY BOUNDARY
<u>•</u>	SECTION CORNER		UTILITY RISER (DEFINED BY UTILI	rvi		RIGHT-OF-WAY - TEMPORARY/PERMANEN*
	DRILL HOLE IN CONCRETE/HARRISON MONUMENT		UTILITY PEDESTAL (DEFINED BY U			SECTION BOUNDARY
	CONTROL POINT (SET/FOUND)	P	UTILITY MARKER (DEFINED BY UT			WETLANDS
9		· · · · · · · · · · · · · · · · · · ·	-	uiii)		
0	MAGNETIC NAIL (SET/FOUND)		JOINT POWER/TELEPHONE POLE		340	CONTOUR - INTERMEDIATE ELEVATION
0	BOAT SPIKE (SET/FOUND)	D	LIGHT POLE		850	CONTOUR - INDEX ELEVATION
0	PK NAIL (SET/FOUND)	JET .	LIGHT ON POWER POLE		OHE — OHE	OVERHEAD ELECTRIC
8	RAILROAD SPIKE (SET/FOUND)	±	LIGHT ON JOINT POLE		онс онс	OVERHEAD CABLE TV
200	R/W MARKER - CONCRETE/GRANITE/STONE	@	POWER POLE		онт — онт —	OVERHEAD TELEPHONE
0	IRON PIPE/IRON PIN/REBAR (WITH DIAMETER)	<b>₽</b>	TELEPHONE POLE		ugc — ugc —	UNDERGROUND CABLE TV
⊕	BRASS PLUG	✡	LAMP POST		UGE — UGE —	UNDERGROUND ELECTRIC
0	CABLE TV MANHOLE	$\rightarrow$	GUY ANCHOR		UGF — UGF —	UNDERGROUND FIBER OPTIC
⊚	ELECTRIC MANHOLE	-0:	GUY POLE OR STUB			GAS MAIN
©	GAS MANHOLE	8	CONTROLLER CABINET		DGDG	DIGESTER GAS
0	OTHER MANHOLE	<b>®</b>	FLAG POLE		P — P — P —	PETROLEUM MAIN
0	TELEPHONE MANHOLE	0	POST		ugt — ugt —	UNDERGROUND TELEPHONE
TEL	TELEPHONE VAULT	4	GROUND LIGHT		www	WATER MAIN
0	TRAFFIC MANHOLE		MAILBOX			WATER SERVICE
<u>ө</u>	TRAFFIC HANDHOLE	ММ	DOUBLE-MULTIPLE MAILBOX		FM FM	FORCEMAIN
<u></u>	WATER MANHOLE		MAST ARM POLE			GRAVITY SEWER PIPE
<u> </u>	AIR RELEASE VALVE		TRAFFIC SIGNAL STRAIN POLE			PLANT CHLORINE PIPE
	SANITARY SEWER MANHOLE		SIGNAL LOOP DETECTOR BOX			TOP OF BANK/TOE OF SLOPE
0	DRAINAGE/STORM SEWER MANHOLE	0	SIGNAL LOOP DETECTOR LOOP			CENTERLINE OF DITCH/SWALE/STREAM
		<del>-</del>				
8	SANITARY SEWER CLEANOUT	-	SIGN - SINGLE POST			FENCE - FIELD
	SEPTIC TANK		SIGN - DOUBLE POST		-3-0-3-0-3-0-3-0-3-	FENCE - METAL
0	VALVE VAULT	*	SIGN - RAILROAD SIGNAL			FENCE - WOOD
•	BEEHIVE INLET	*	SIGN - RAILROAD CROSSING		• • • • • • •	GUARDRAIL
	CURB INLET	0	BUSH			STREAM
Ш	DROP INLET	ρl	STUMP		$\sim$	TREE/BRUSH LINE
000	CATCH BASIN	*	TREE - CONIFEROUS			
ទី	DOWNSPOUT	@	TREE - DECIDUOUS			
Ö	GAS METER	0	ROCK OUTCROP			
Ñ	GAS VALVE	ô	SATELLITE			
ő	GAS SERVICE VALVE				- 0	121
Ñ	PETROLEUM VALVE				<b>2.4</b>	1/2
ోం	PETROLEUM SHUTOFF VALVE					~THANK
	GAS STATION MONITORING WELL		1		YM	
Ø	GAS STATION FILL CAP					
9	NATURAL GAS WELL/STORAGE WELL				antibo	knownars below.
Ů	SPRINKLER HEAD				_	S Gall before you di
SPH M	SPRINKLER CONTROL VALVE				1	)
ő	WATER METER				<i>Y</i> <sub>2</sub> .	
THE C	WATER VALVE				~ <i>0</i> , .	
₩ #\$0			1		V	
*6"	WATER SERVICE VALVE				^`	
0	WATER WELL		-		$\langle \cdot \rangle$	
<u></u>	WET WELL			4	-	
Ä	FIRE HYDRANT			n.		
Ø	PROCESS VALVE		٠.(	Z		
Д	YARD HYDRANT		$\perp$	-		
THIS TABLE	IS A LISTING OF TYPICAL EXISTING SYMBOLS A L PROPOSED ITEMS WILL BE CALLED OUT ON TH LISTED IN THIS TABLE, PLEASE CONTACT THE EN	ND MAY NOT INCLU IEIR PLAN SHEETS.	IDE ALL EXISTING SYMBOL FO	UND WITHIN MEANING OF		

ADG

AUGUST 2019

206518-04-002

REVISION DESCRIPTIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	IPS	IRON PIPE SIZE
ALUM	ALUMINUM	ISPC	INDIANA STATE PLANE COORDINATE
APP	APPARENT	LB	POUND(S)
APPROX	APPROXIMATE(LY)	I.F.	LINEAR FEET
ASPH	ASPHALT	LN	LANE
ASSOC	ASSOCIATES	LS	LIFT STATION
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	MA EX	MATCH EXISTING
AVE	AVENUE	MJ	MECHANICAL JOINT
AVG	AVERAGE	MATL	MATERIAL _
BLDG	BUILDING	MAX	MAXIMUM
BLVD	BOULEVARD	MH	MANHOLE
BM	BENCHMARK	MIN	MINIMUM
co	CLEANOUT	MISC	MISCELLANEOUS
CI	CAST IRON	N	NORTHING, NORTH
CL	CENTER LINE	NGS	NATIONAL GOVETIC SURVEY
CMA	COLD MIX ASPHALT	NO.	NUMBER
CMP	CORRUGATED METAL PIPE	oc	ON Q TO EN
CMU	CONCRETE MASONRY UNIT	OD	ger OF DIAMETER
CONC	CONCRETE	PC	OIN OF CURVE (BEGIN CURVE)
CONT	CONTINUOUS	POLY	ROLYETHYLENE
CNR	CORNER	PI C	POINT OF INTERSECTION
CP	CONTROL POINT	POT	IPOINT ON TANGENT
CPP	CORRUGATED PLASTIC PIPE	PT 3	POINT OF TANGENT (END CURVE)
CR STN	CRUSHED STONE	PSI C	POUNDS PER SQUARE INCH
CYD	CUBIC YARD		POINT
D	DEPTH	(Z)	POLYVINYL CHLORIDE
DI	DUCTILE IRON • •	<b>1</b>	RADIUS
DIMJ	DUCTILE IRON MECHANICAL JOINT	ROW	RIGHT-OF-WAY
DRI	DOUBLE	RCP	REINFORCED CONCRETE PIPE
DIA	DOUBLE  DIAMETER  DUCTILE IRON PIPE  DUCTILE IRON PIPE SIZE  DRIVE  CASTANCEARY	RD	ROAD
DIP	DUCTILE IRON PIPE	s	SOUTH
DIPS	DUCTILE IRON PIPE SIZE	SR	STATE ROUTE
DR	DRIVE	SST	STAINLESS STEEL
E	FASTING FAST	SVA	SERVICE VALVE ASSEMBLY
FF	FACH FACE	SR	SOIL BORING
FW	FACH WAY	SCHED	SCHEDULE
EA	FACH S	SDR	STANDARD DIMENSION RATIO
EJ	EAST JOR ON WORKS	SECT	SECTION
EL	ELEV	SF	SQUARE FEET
EX	EXIST	SHT	SHEET
EXP •	XPANSION	SPECS	SPECIFICATION(S)
FFE	FINISH FLOOR ELEVATION	SQ	SQUARE
FM N	FORCE MAIN	SRF	STATE REVOLVING FUND
FND .	FOUND	ST	STREET STREET
FT A N	FEET	STA	STATION
FIG. 1	FOOTING	SYD	SQUARE YARD
	GALVANIZED	TBM	TEMPORARY BENCHMARK
1	GLOBAL POSITIONING SYSTEM	TC	TOP OF CASTING
2,,	HOT MIX ASPHALT	TYP	TYPICAL
HDPF	HIGH DENSITY POLYETHYLENE	USGS	US GEOLOGICAL SURVEY
HORIZ	HORIZONTAL	VERT	VERTICAL VERTICAL
ID .	INSIDE DIAMETER	VLV	VALVE
IE .	INVERT ELEVATION	W	WIDTH, WEST
III. INC	INCORPORATED	WSE	WATER SURFACE ELEVATION
INDOT	INDIANA DEPARTMENT OF TRANSPORTATION	YR	YEAR

	NEW FE	ATURES LEGEND	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
Ö	WATER METER		WATER SERVICE
×	WATER VALVE	www	WATER MAIN
+2	WATER FITTING	-/-/-/-/-/-/-/-	SILT FENCE
A	TEE		PAVEMENT REPAIR
×	FIRE HYDRANT		ASPHALT DRIVE REPAIR
0	LINE STOP		CONCRETE CURB AND GUTTER REPAIR
*6"	CURB STOP		CONCRETE PAVEMENT REPAIR
н	CAP		CRUSHED STONE DRIVE REPAIR
ır	SLEEVE		CONCRETE SIDEWALK REPAIR
	INLET PROTECTION	4400404404404404	
* 4	ELTER TUBE		

WESSLER

ENGINEERING

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JOHAL EN

CENTRAL NOTES

1. NOTIFY THE ENGINEER IF ANY CONFLICTING INFORMATION BECOMES APPARENT IN THE CONTRACT
DOCUMENTS AS SOON AS POSSIBLE AND PRIOR TO THE COMMENCEMENT OF ANY YORK IN THE VICINITY OF
OR RELATIFE TO THE APPARENT CONNECTS OF THE COMMENCEMENT OF ANY YORK IN THE VICINITY OF
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UNLESS SHOWN OTHERWISE.

28. VERIPLY EXISTING SEWER INVERTIS AND LOCATIONS PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY TO ISCREPANCIES OR COMPLICTS.

27. RESET ALL MALBOYES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.

28. IF REQUIRED, PACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY

29. GRANULAR BACKFILL IS REQUIRED WHEN INSTALLING WATER MAIN WITHIN 5 FEET OF THE EDGE OF

## UTILITY CONTACTS

ELECTRIC/GAS VECTREN SHAWN WILLIAMS 1-317-790-8475

CITIZENS GAS RICH MILLER 1-317-927-4684

DUKE ENERGY MICAELA MLIKOTA 1-317-776-5341

TELEPHONE/FIBER OPTIC AT&T JEFF RICE - PROJECT ENGINEER

COMCAST SCOTT EVANS 1-317-752-6569 LEVEL 3 1-720-888-1089

SPECTRUM DEAN CARLISLE 1-317-607-7521 SEWER

CLAY TOWNSHIP REGIONAL WASTE DISTRICT RYAN HARTMAN - DISTRICT ENGINEER 1-317-844-9200

UTILITY DIRECTOR, CITY OF CARMEL

CARMEL WATER STEVE COOK 1-317-733-2858 JOHN DUFFY - UTILITY DIRECTOR, 1-317-571-2451

1-317-927-4434

PETROLEUM BUCKEYE PARTNERS WWW.BUCKEYE.COM 1-800-331-4115 MARATHON PIPE LINE LLC 1-800-537-6644 CLINT (LOCAL CONTRACT) 1-618-540-8905

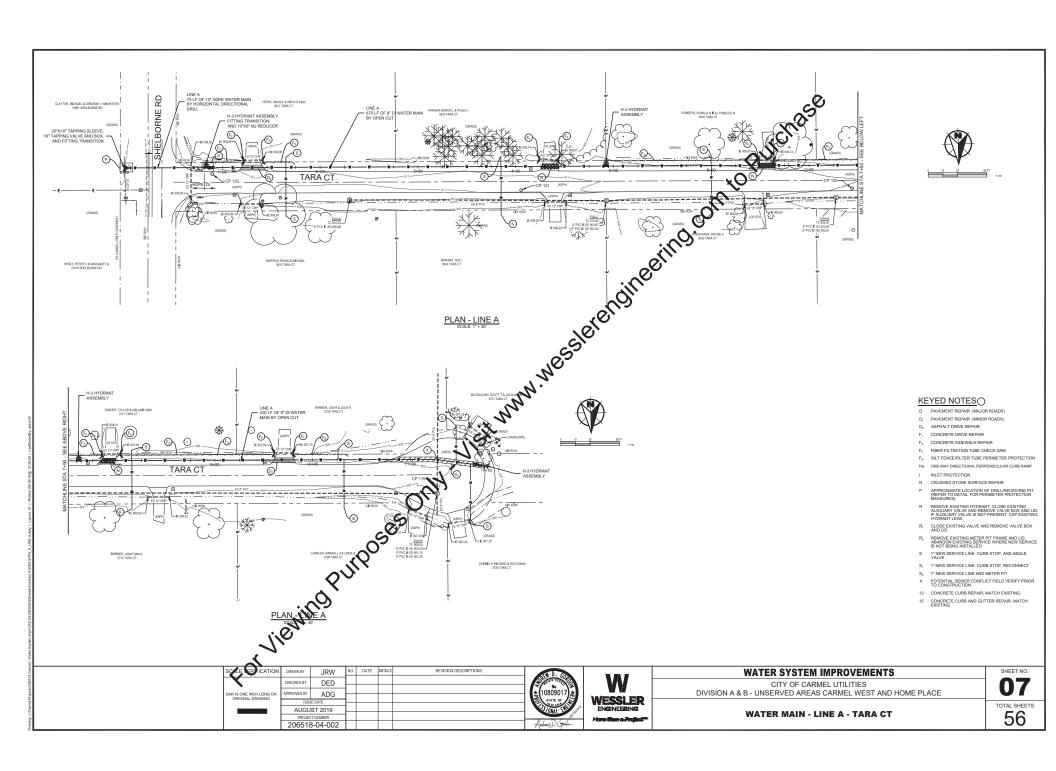
**WATER SYSTEM IMPROVEMENTS** 

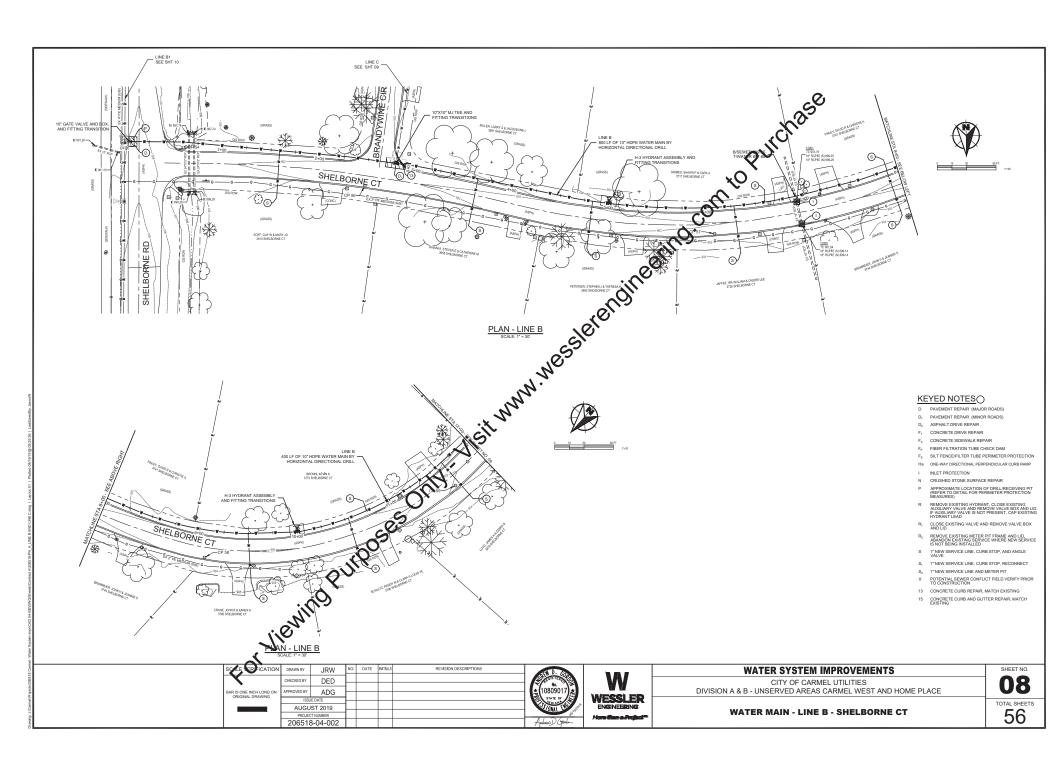
CITY OF CARMEL LITHLITIES DIVISION A & B - UNSERVED AREAS CARMEL WEST AND HOME PLACE

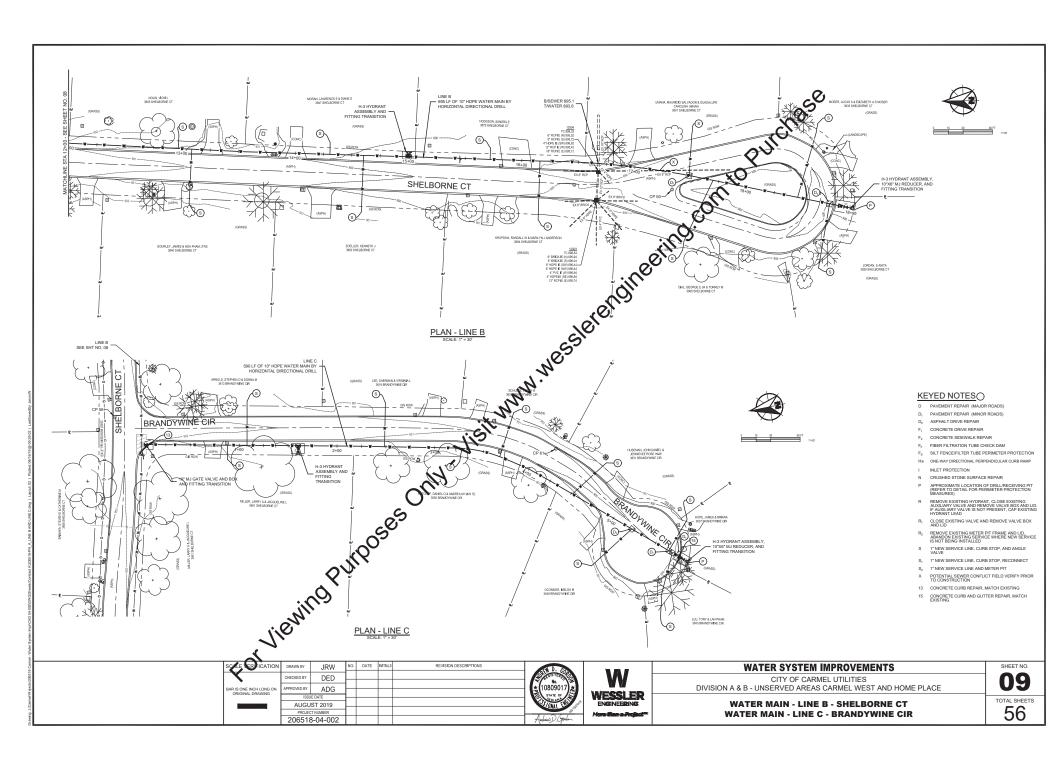
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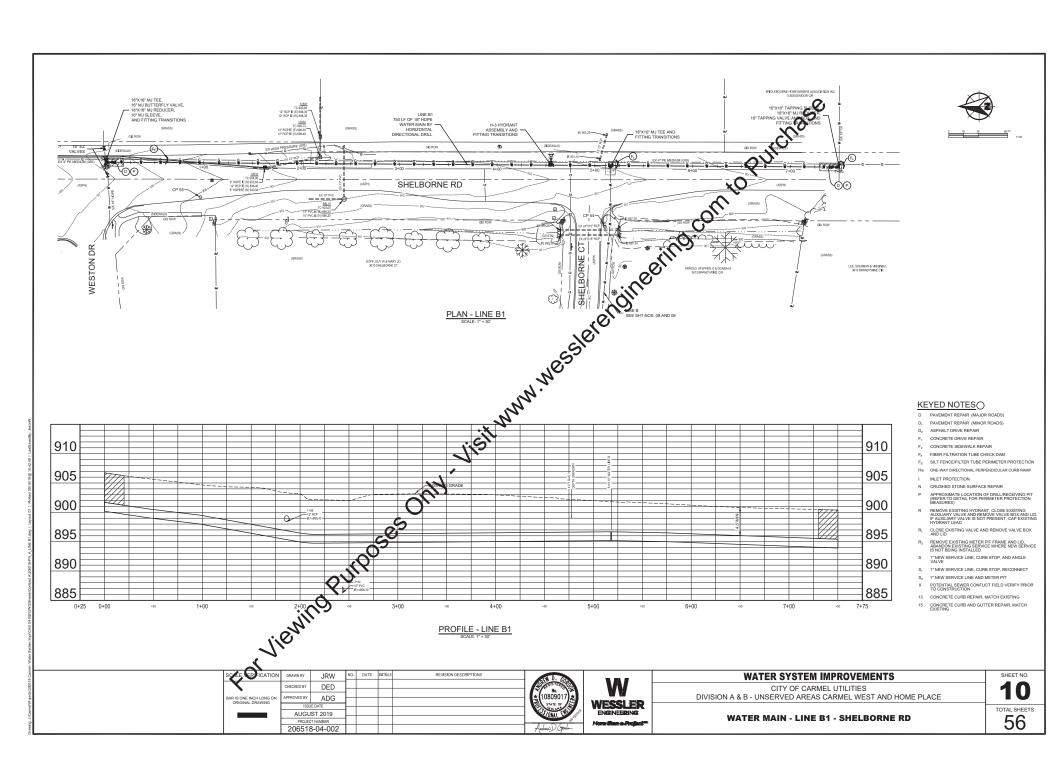
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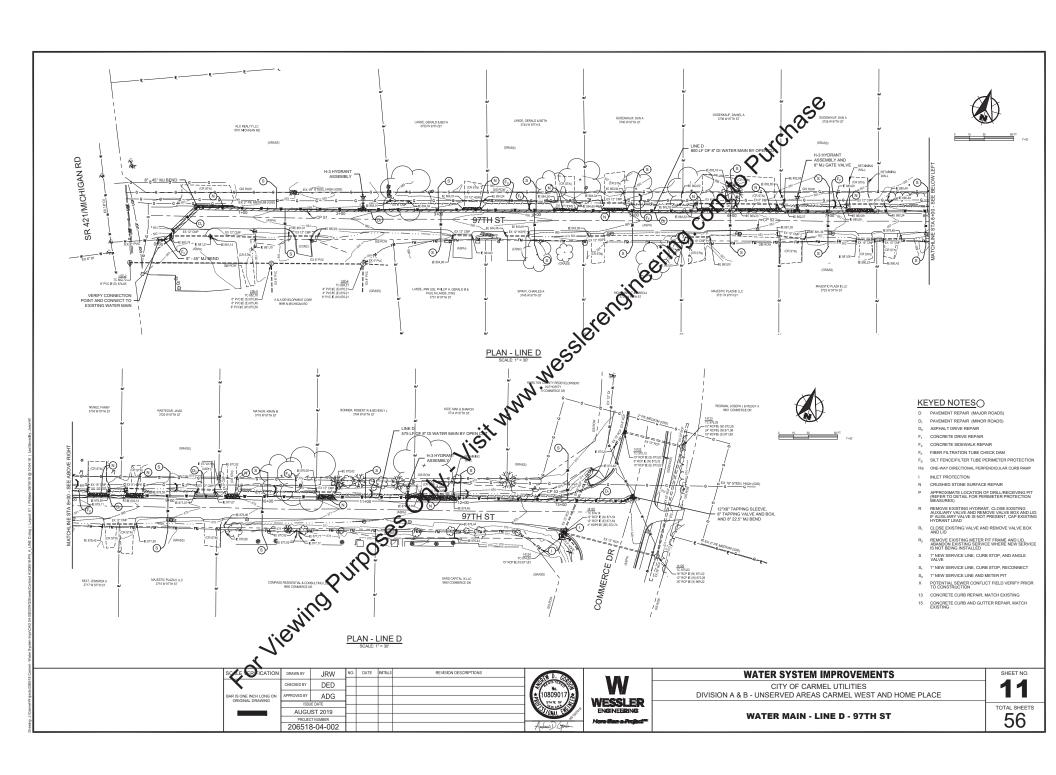
TOTAL SHEETS 56

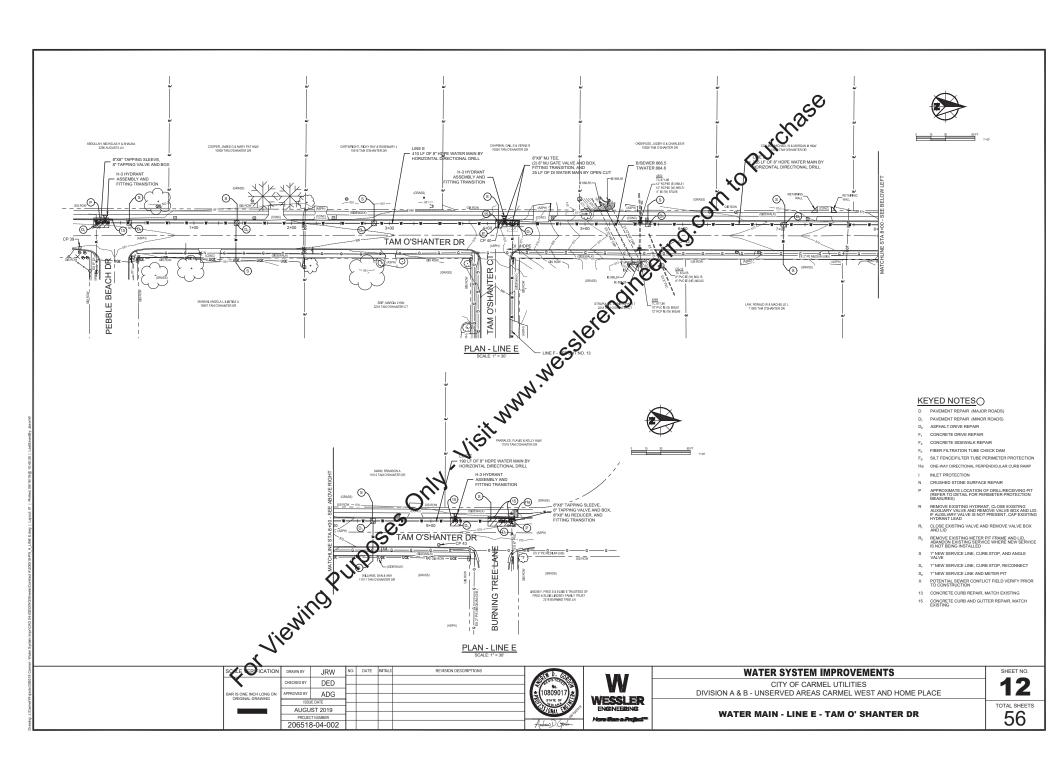


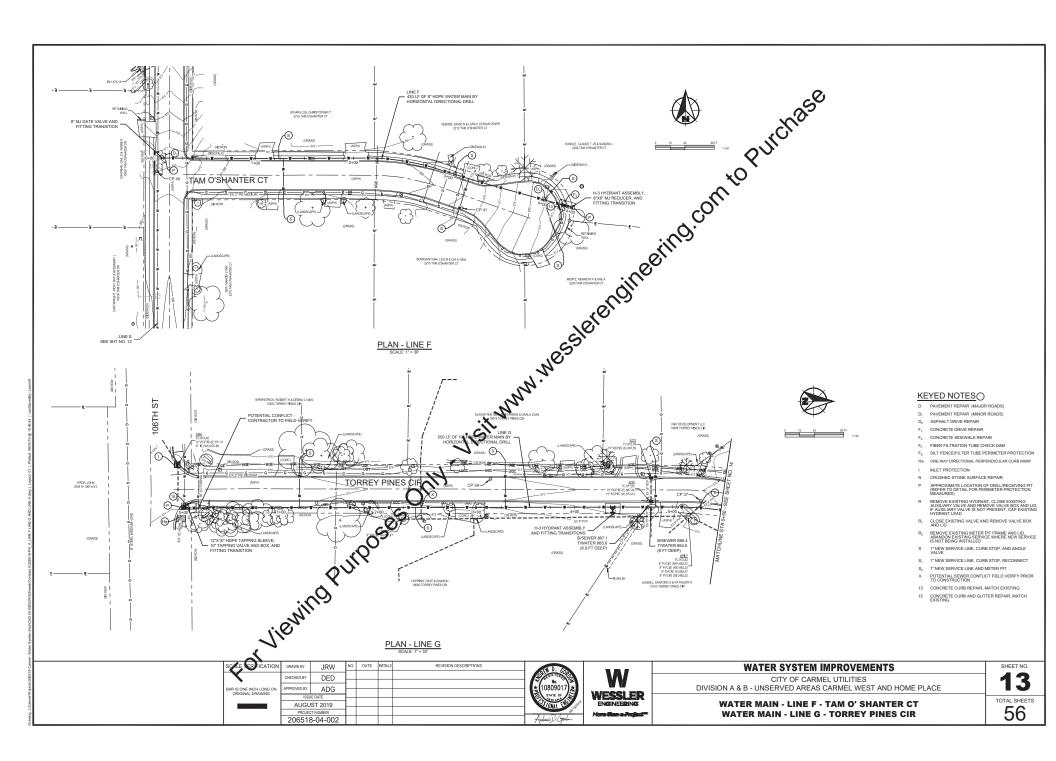


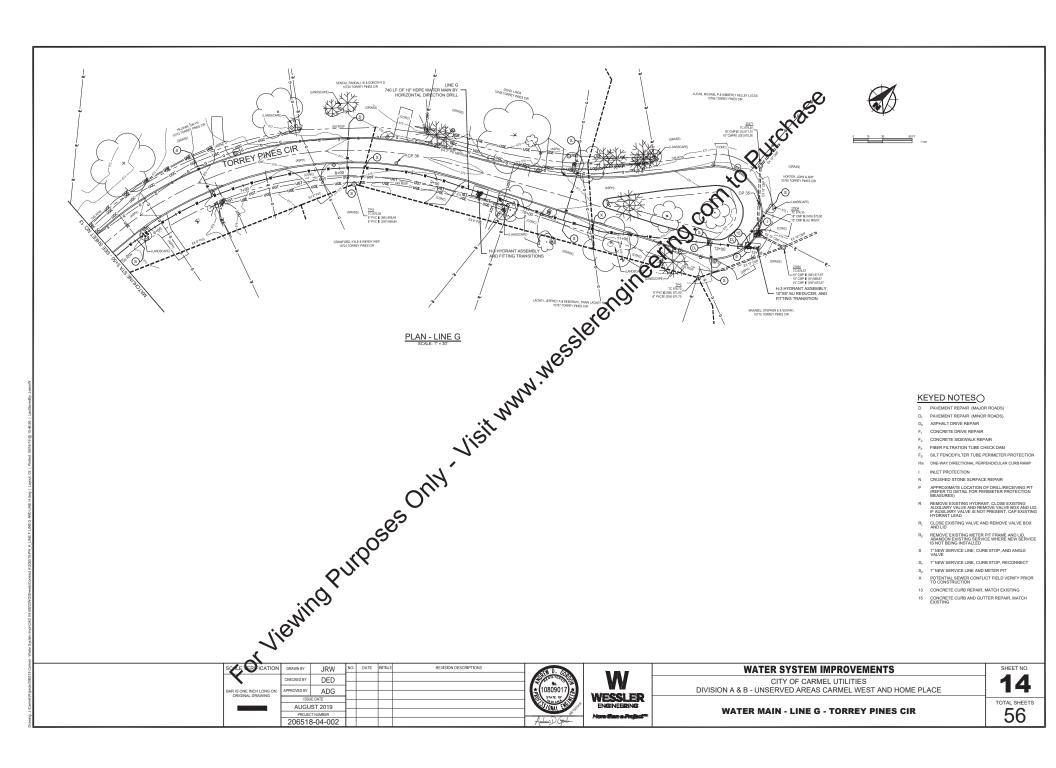


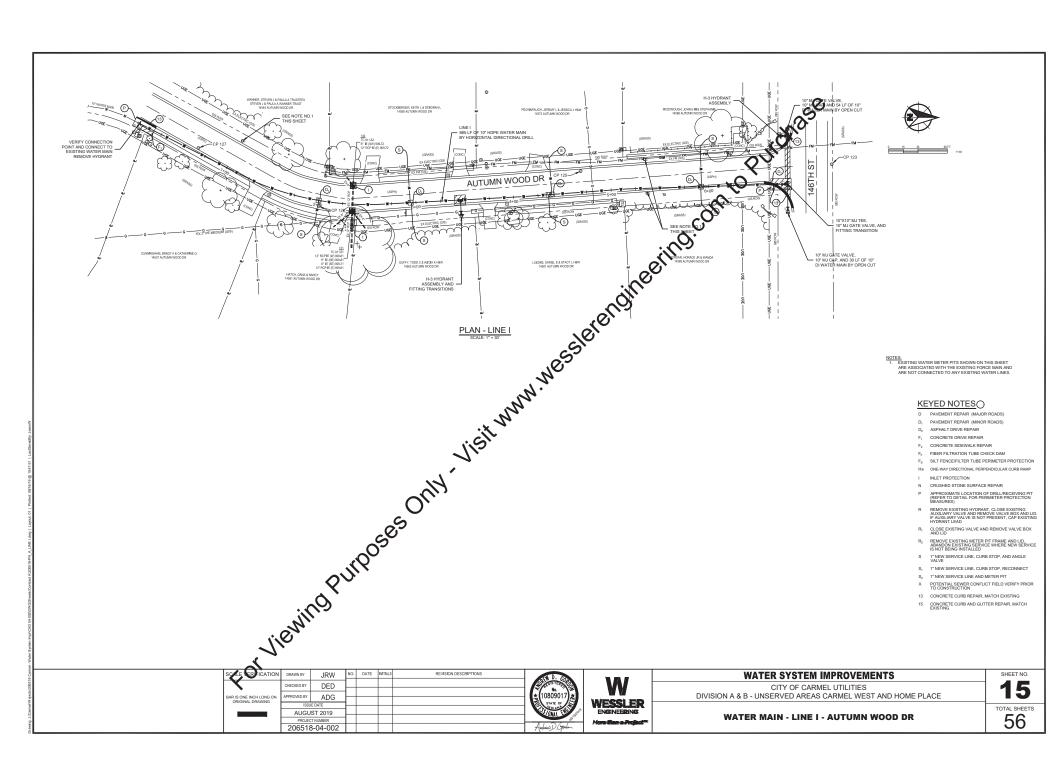


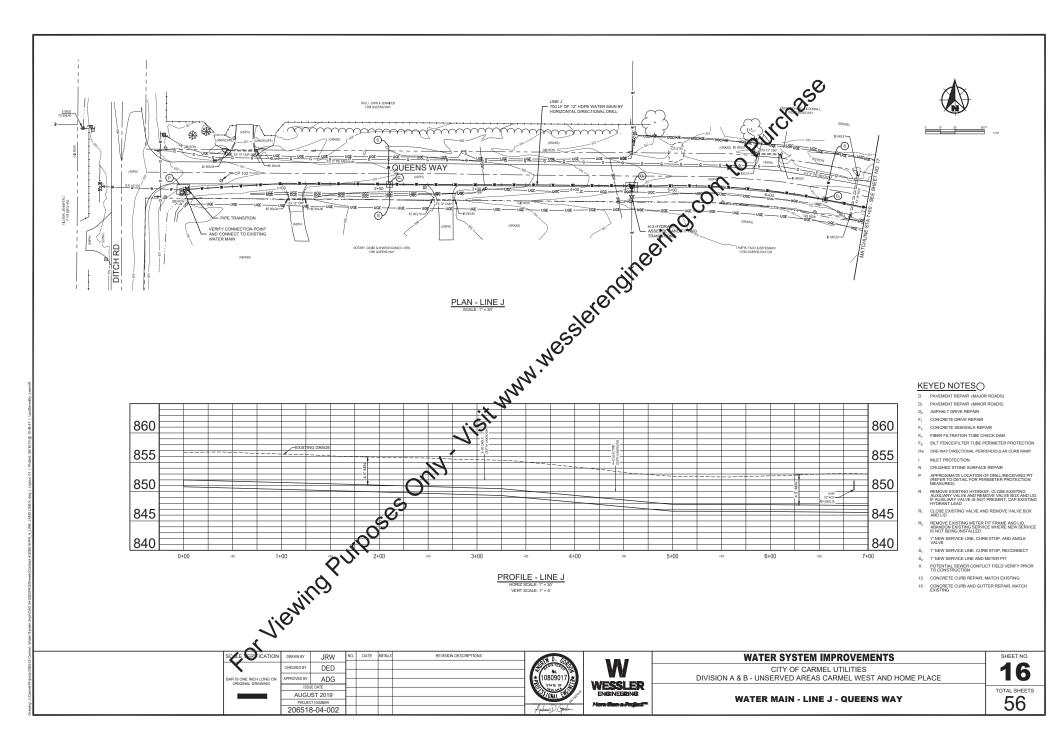


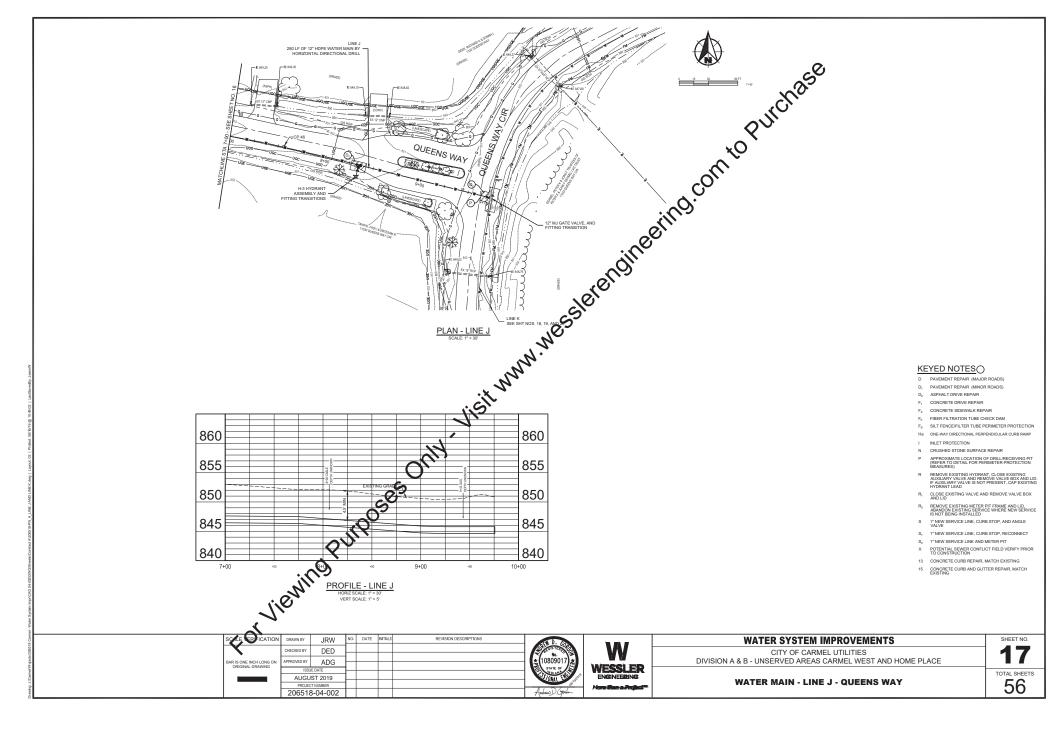


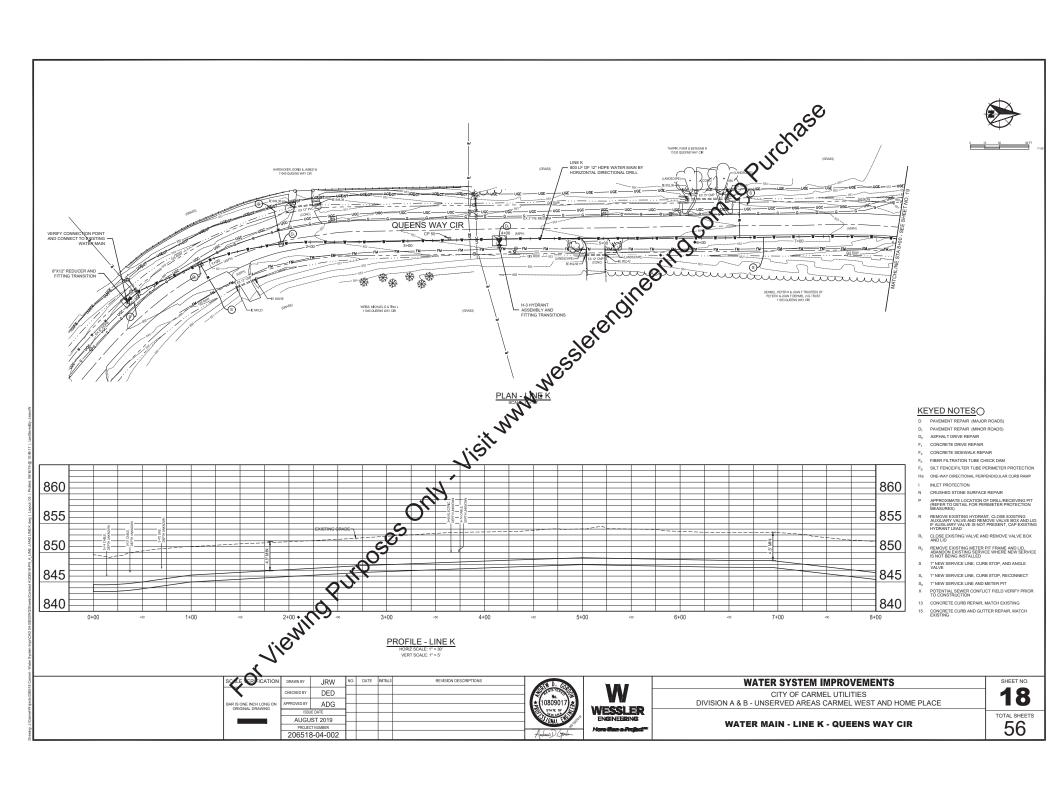


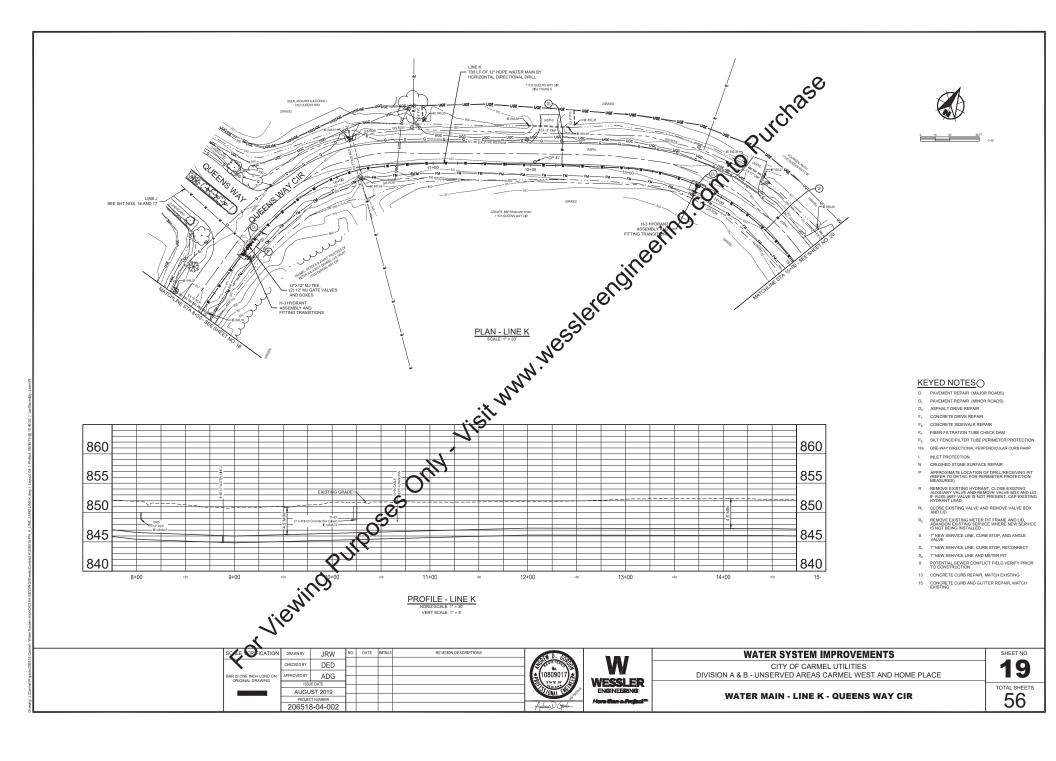


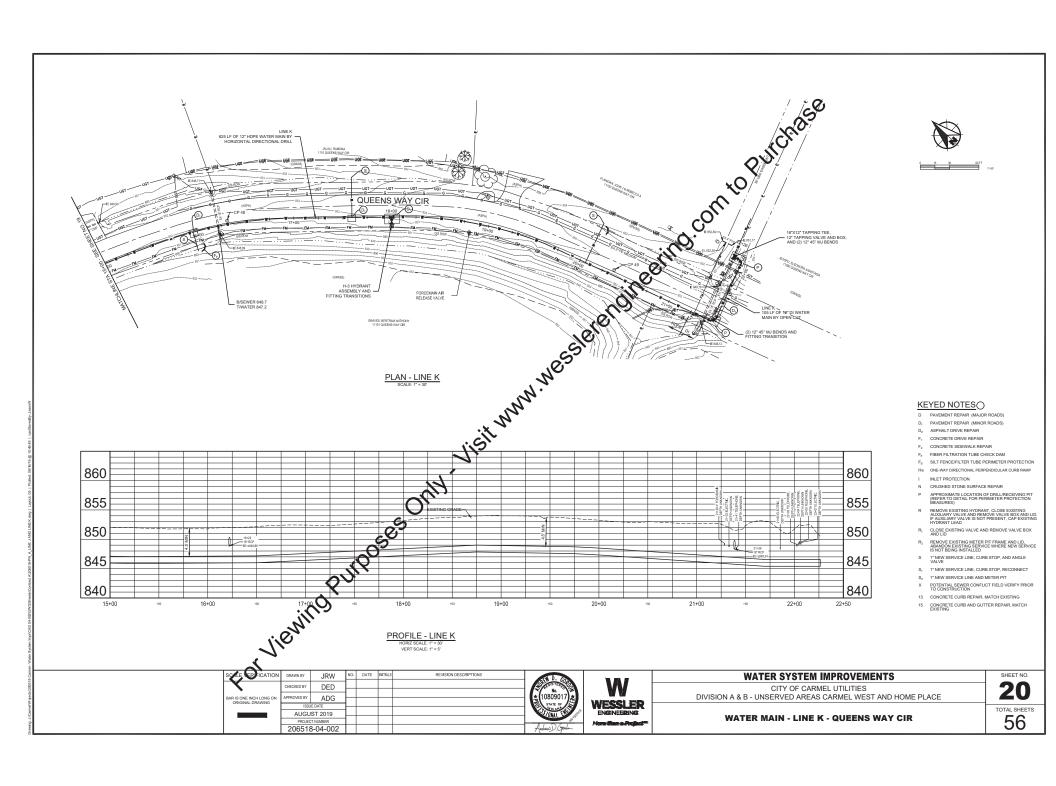


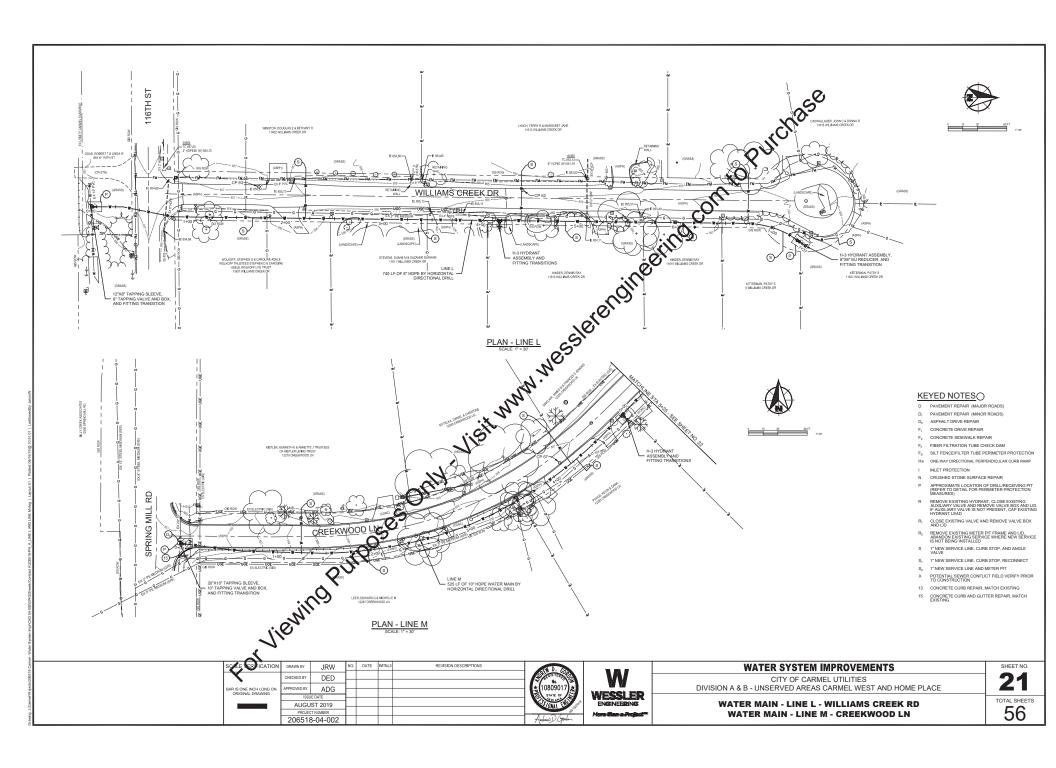


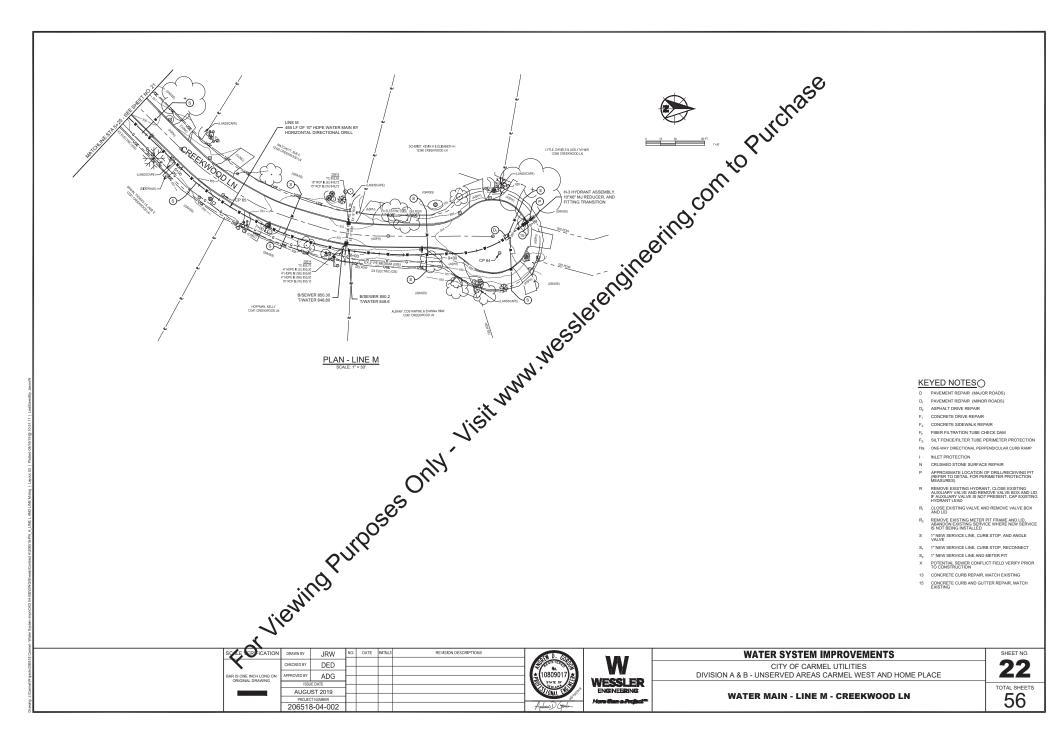


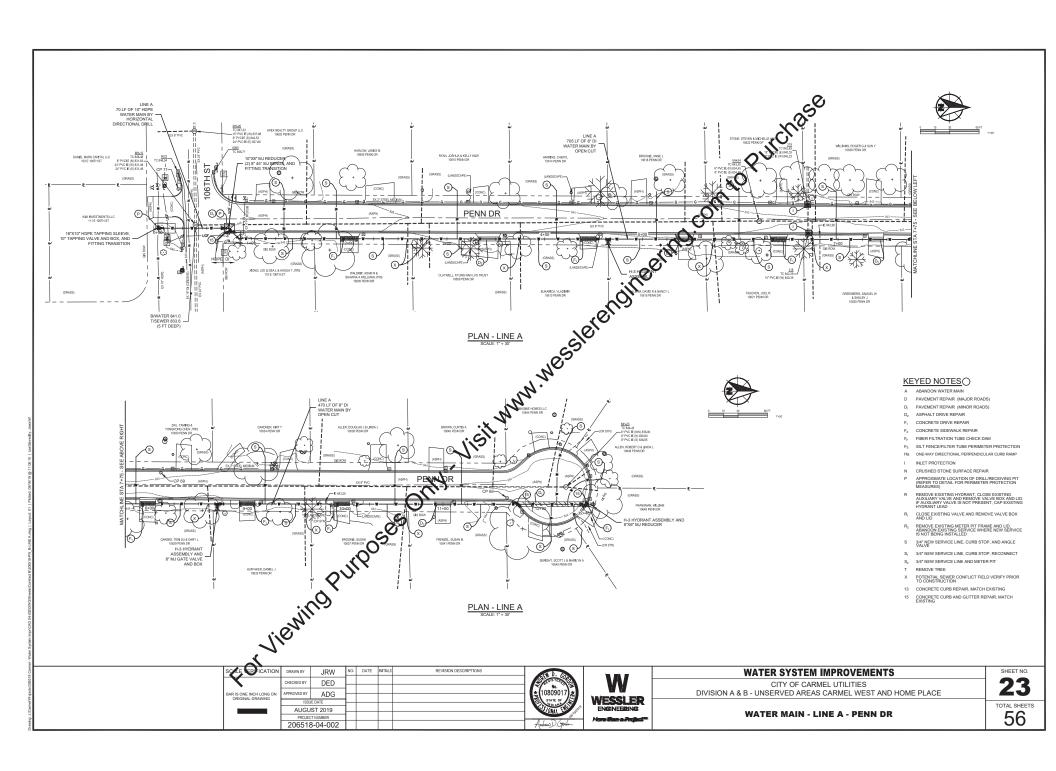


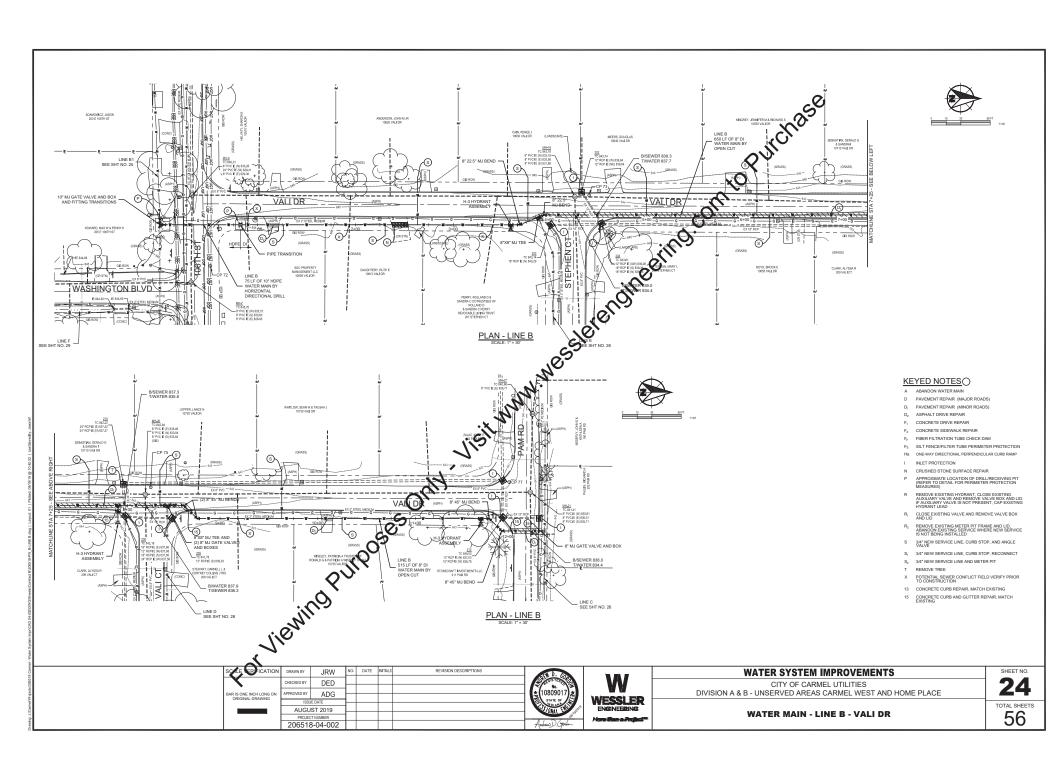


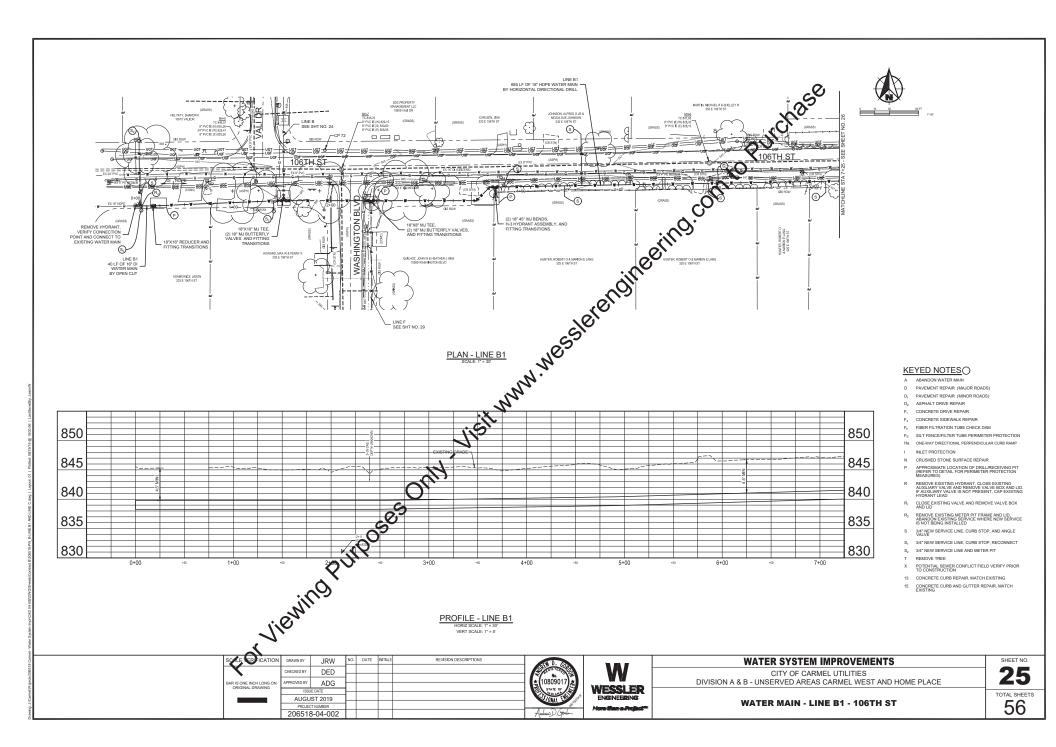


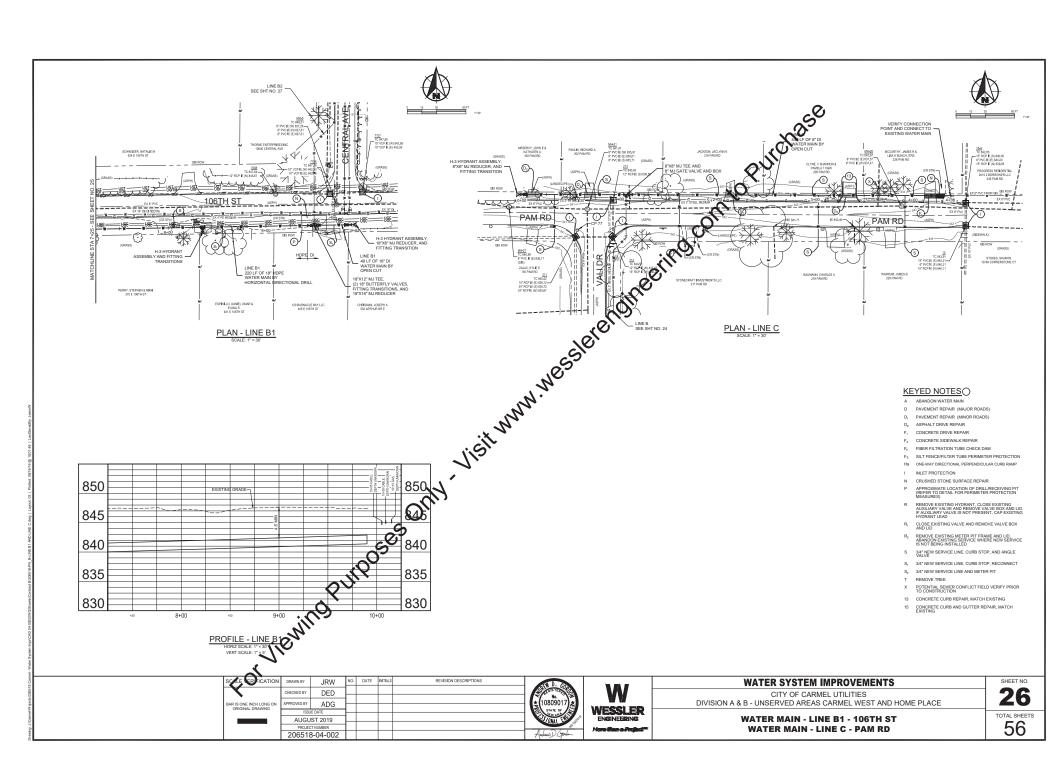


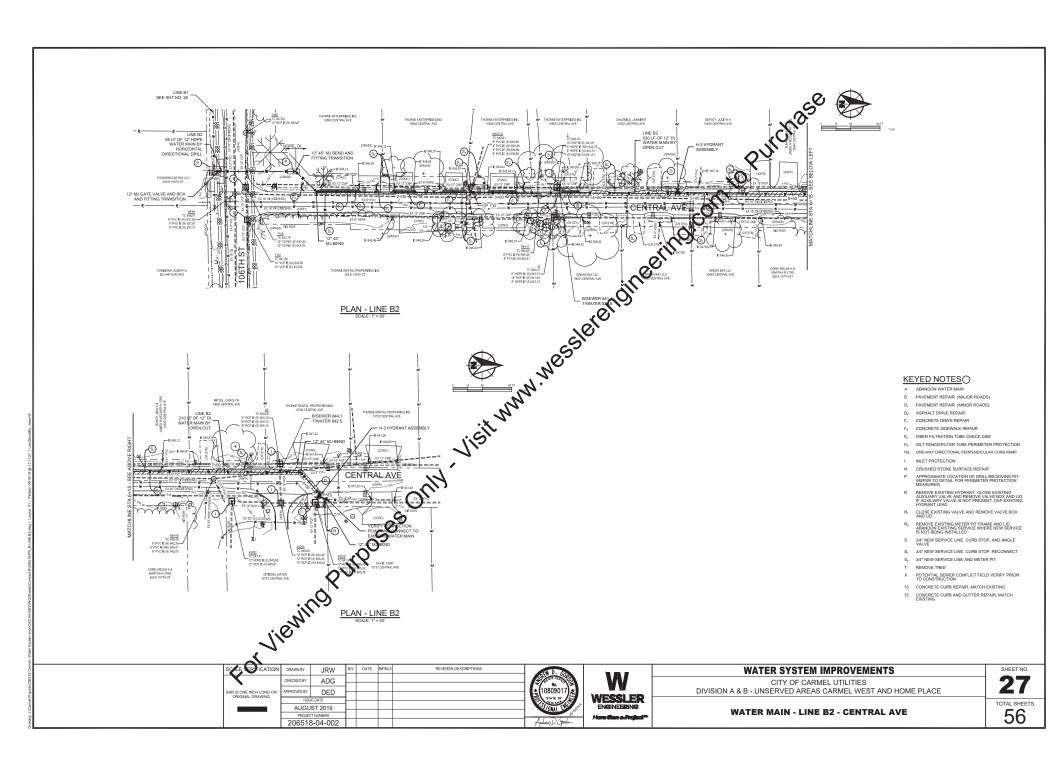


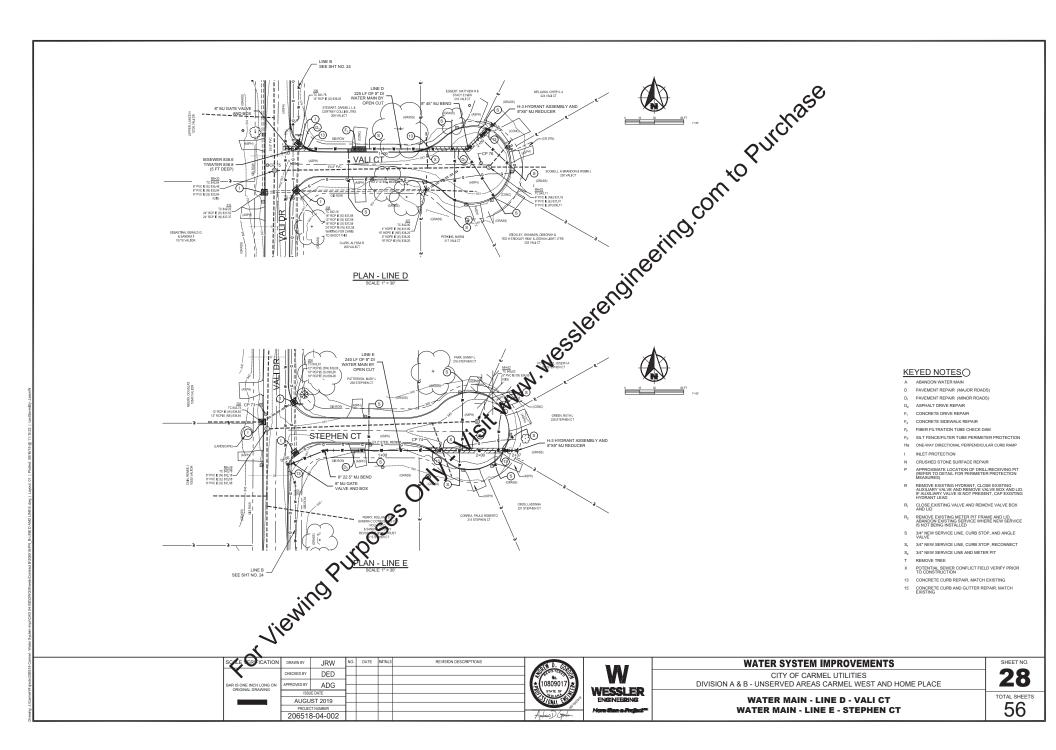


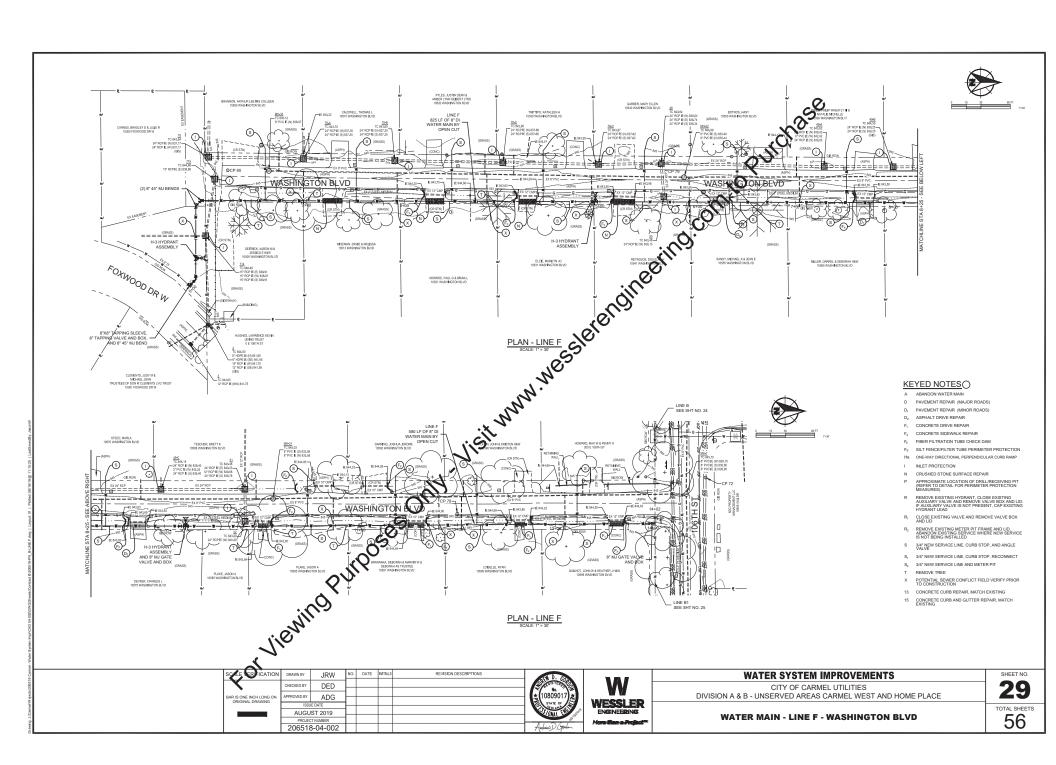


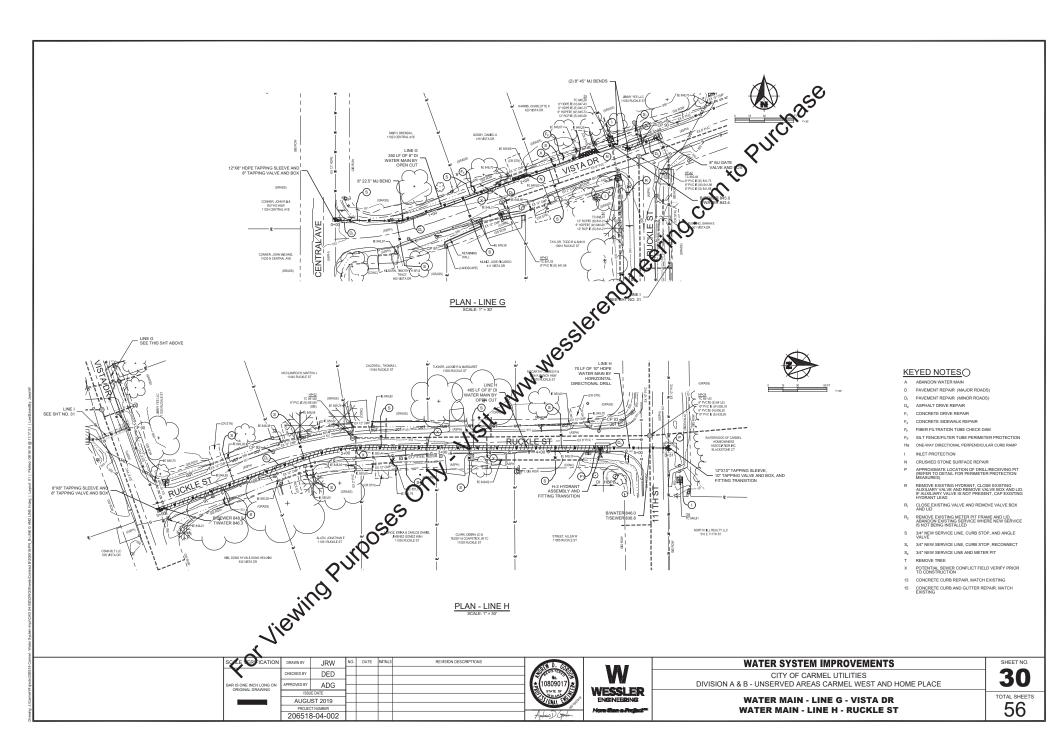


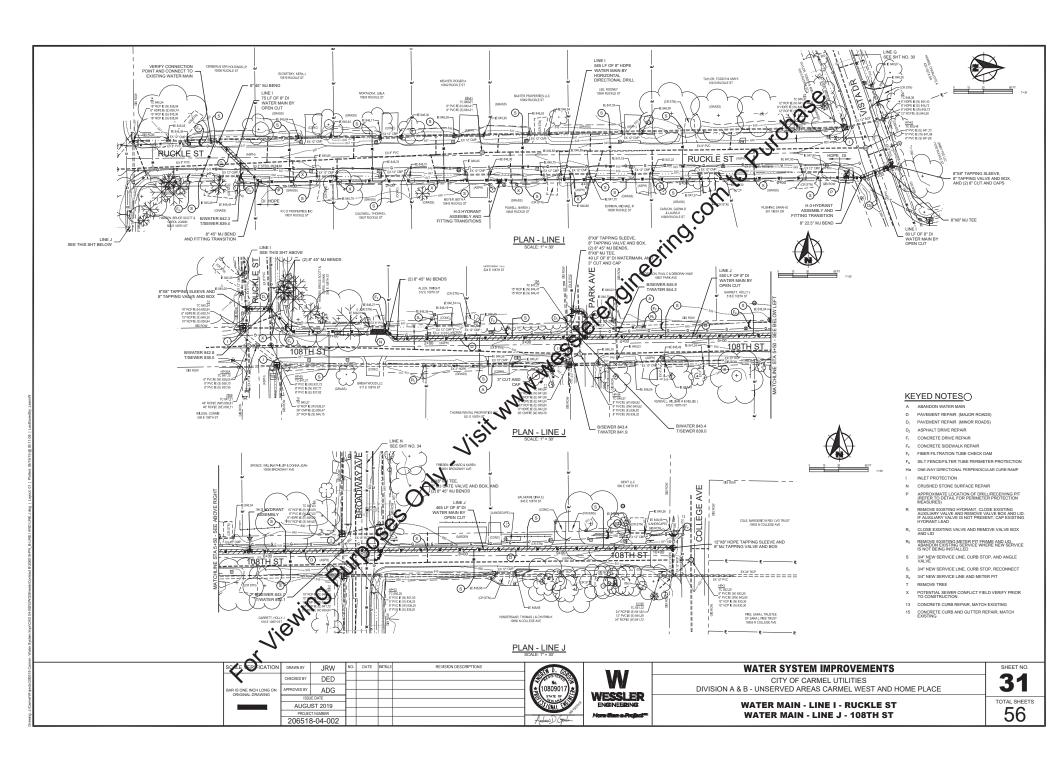


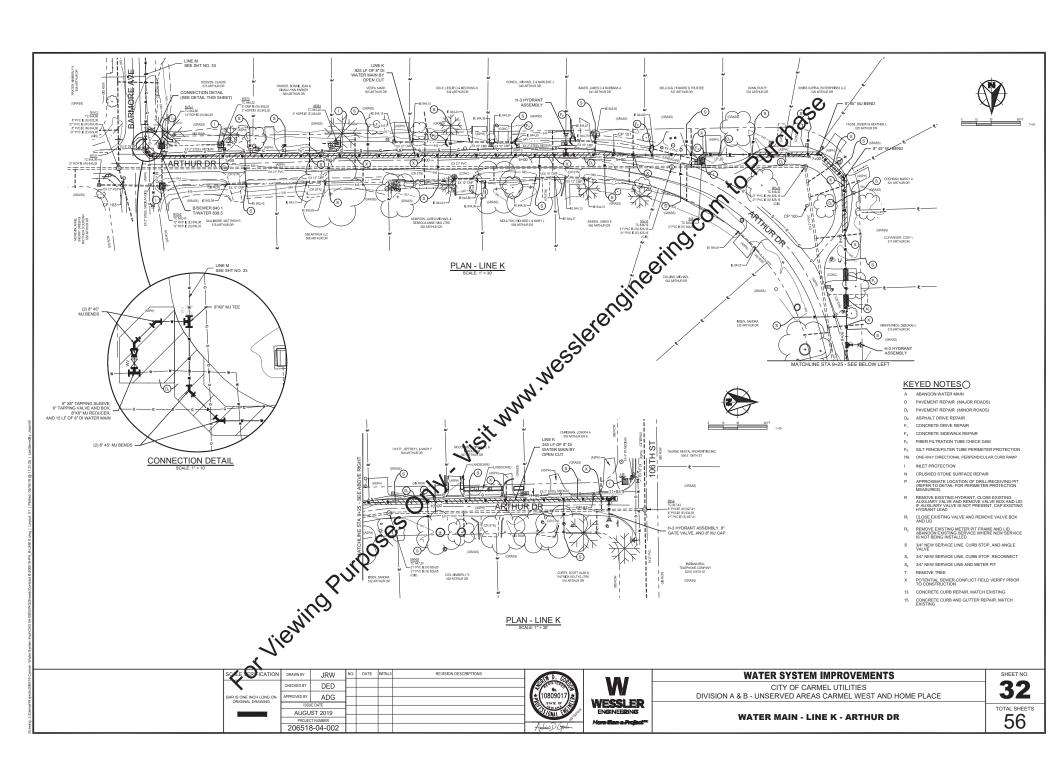


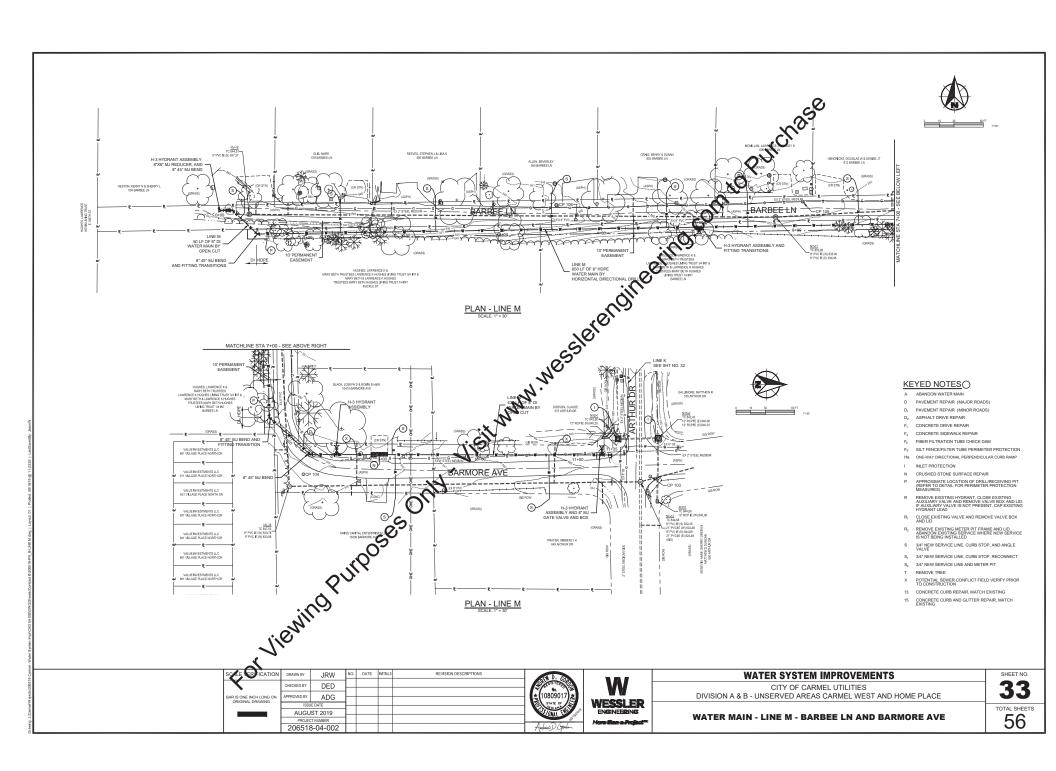


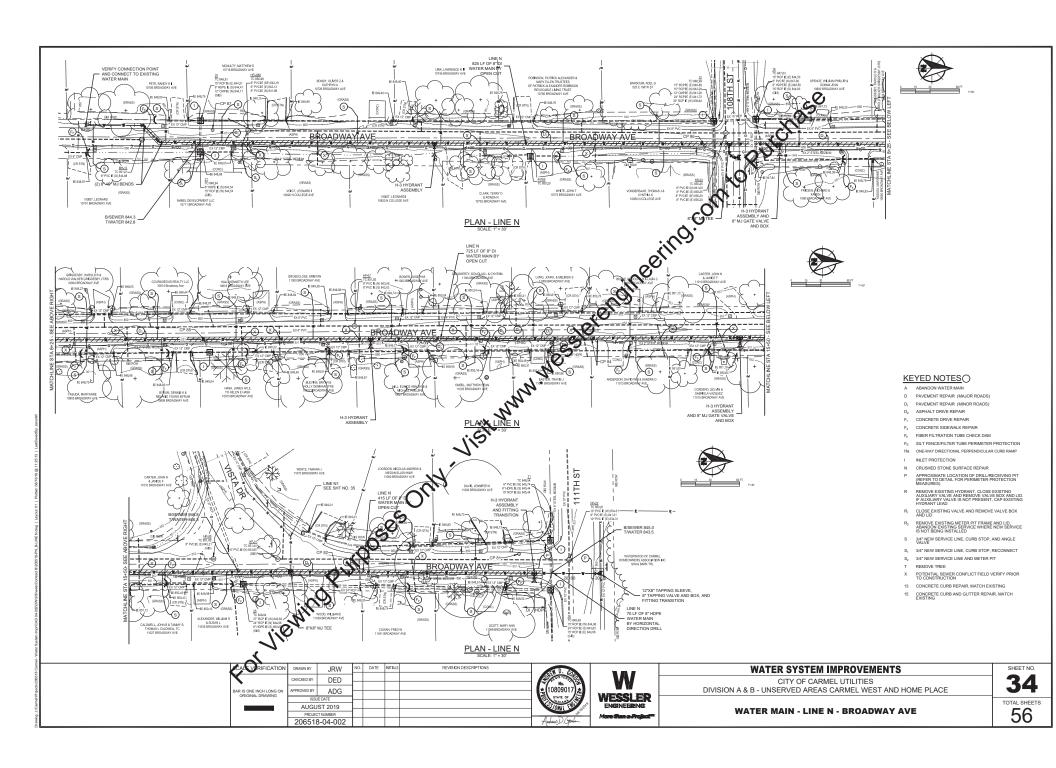


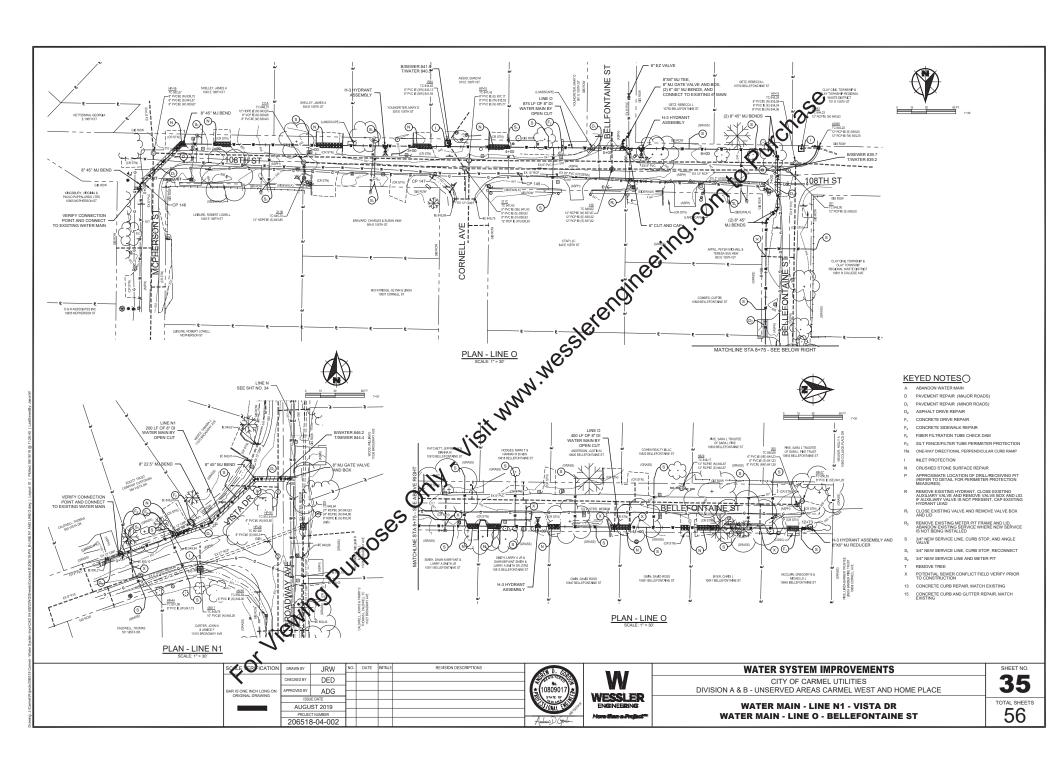


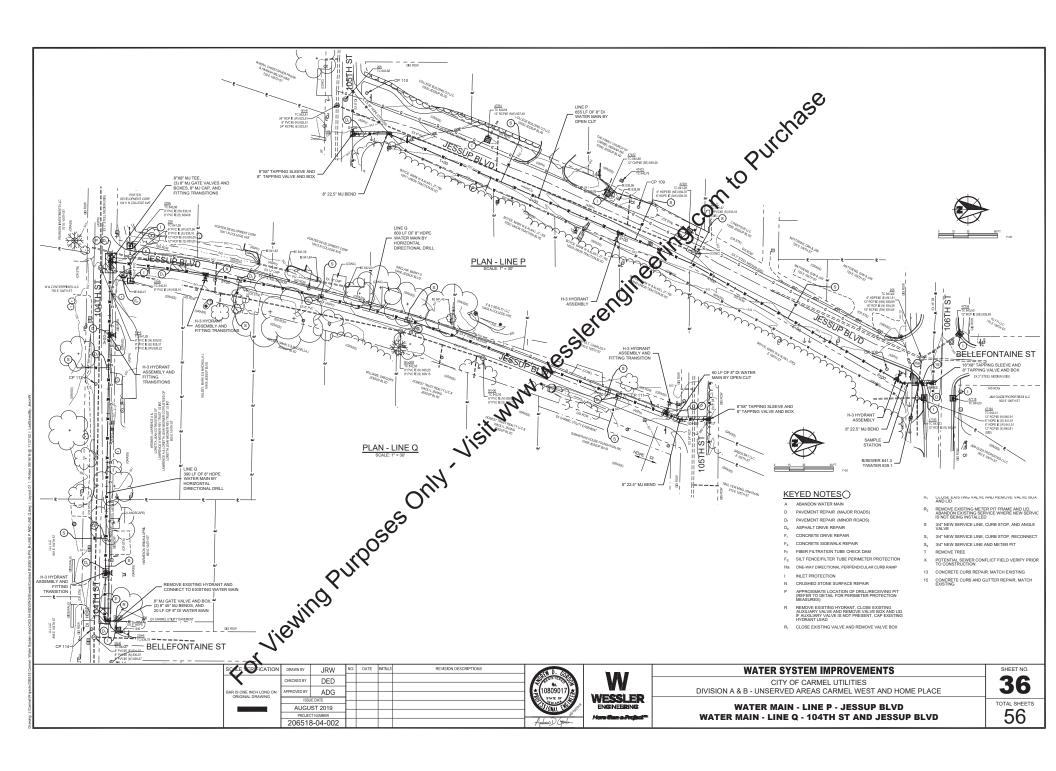


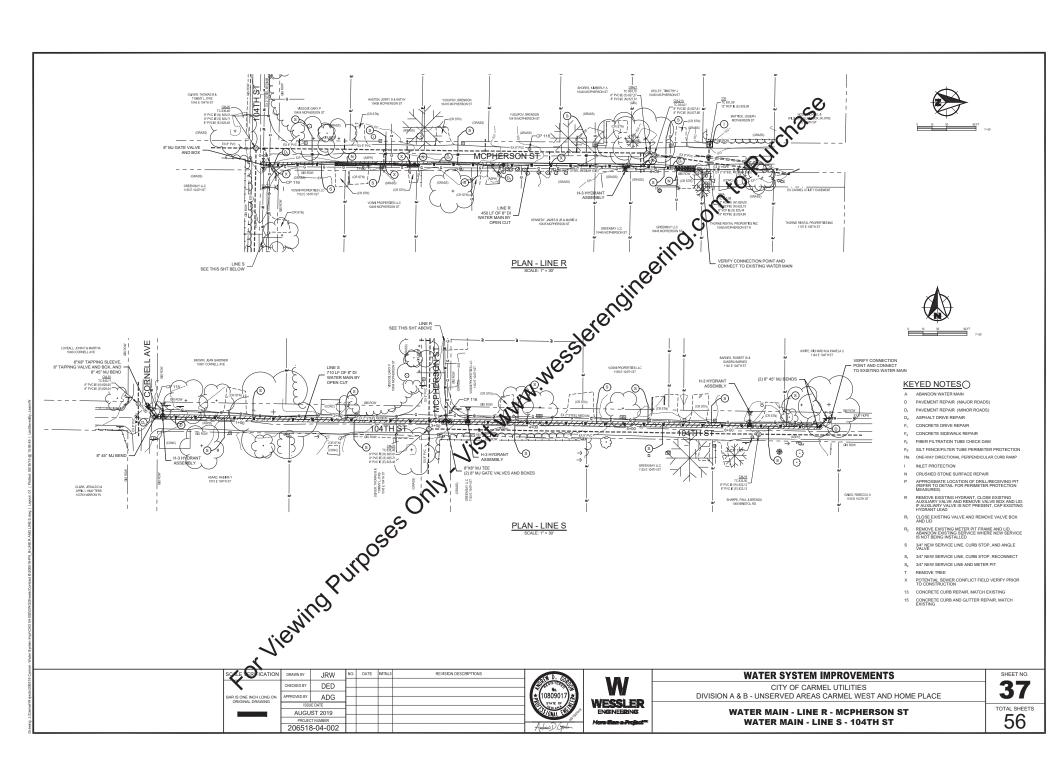


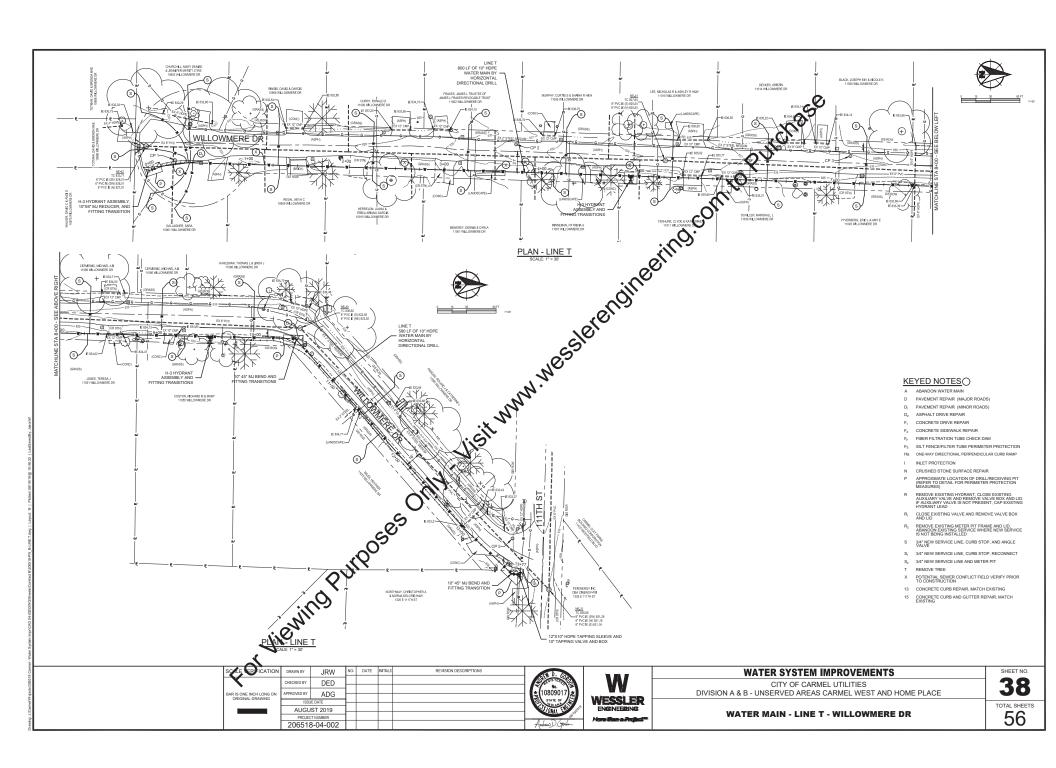


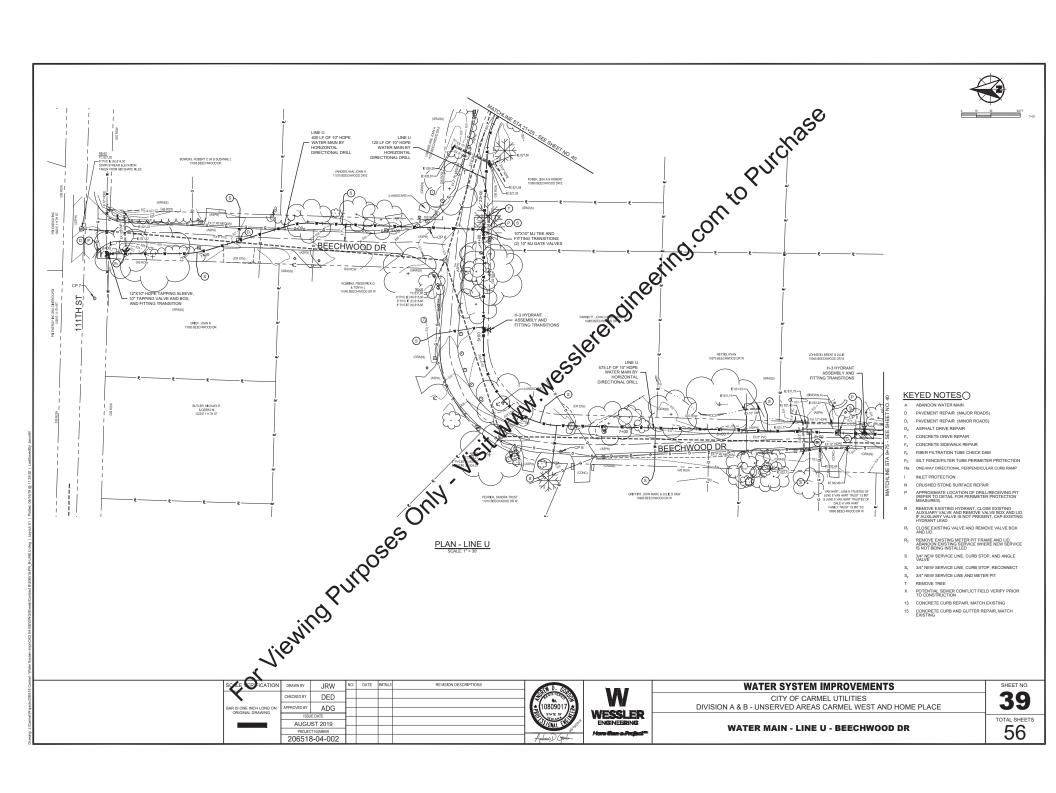


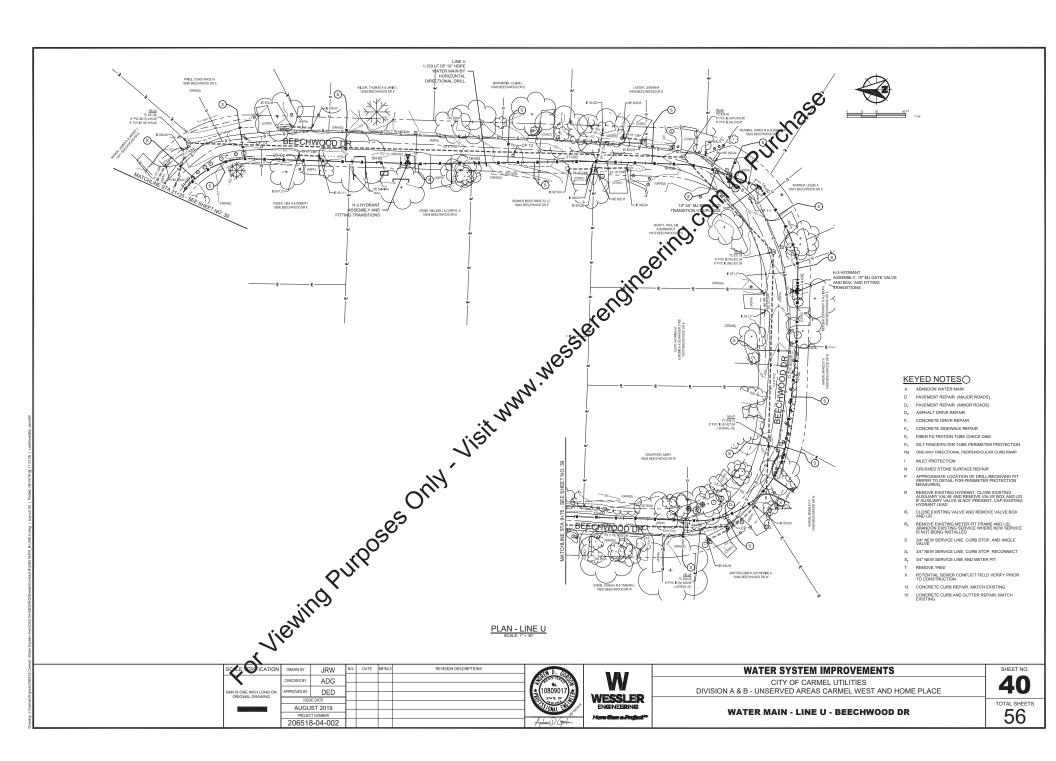


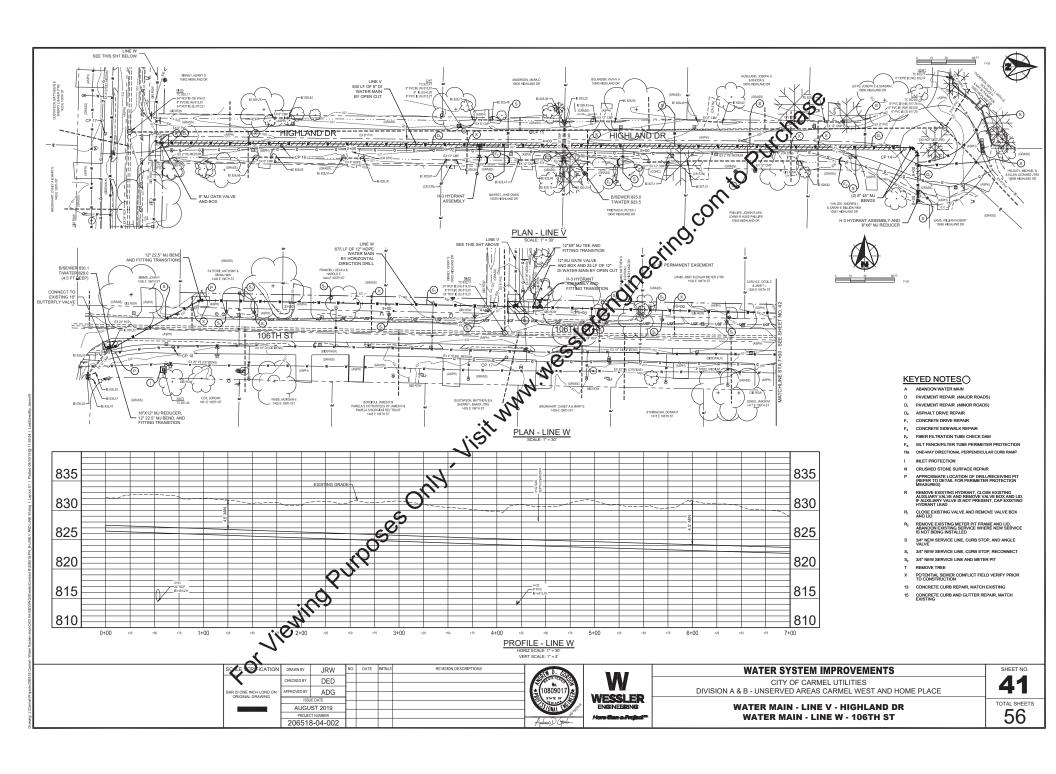


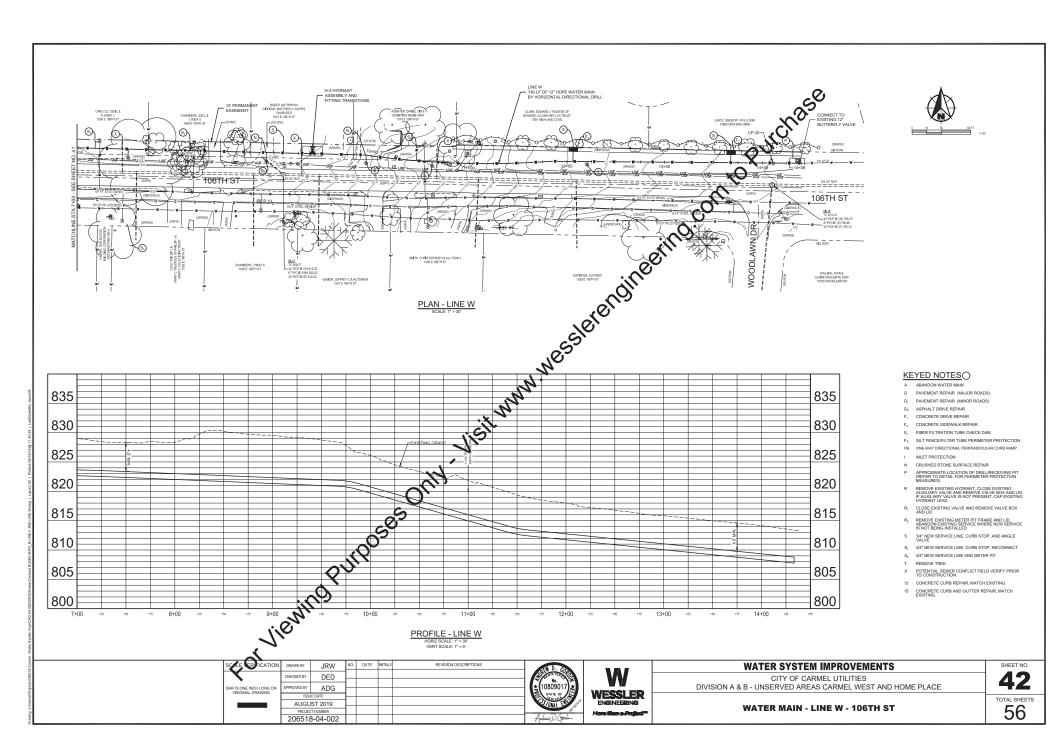


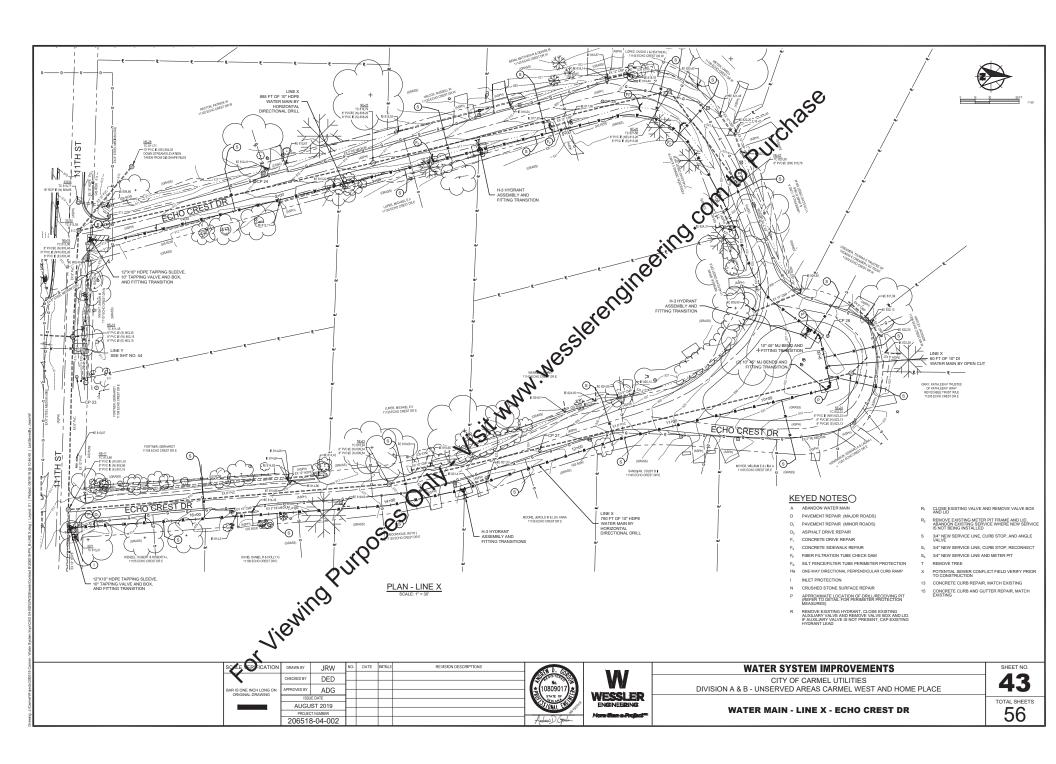


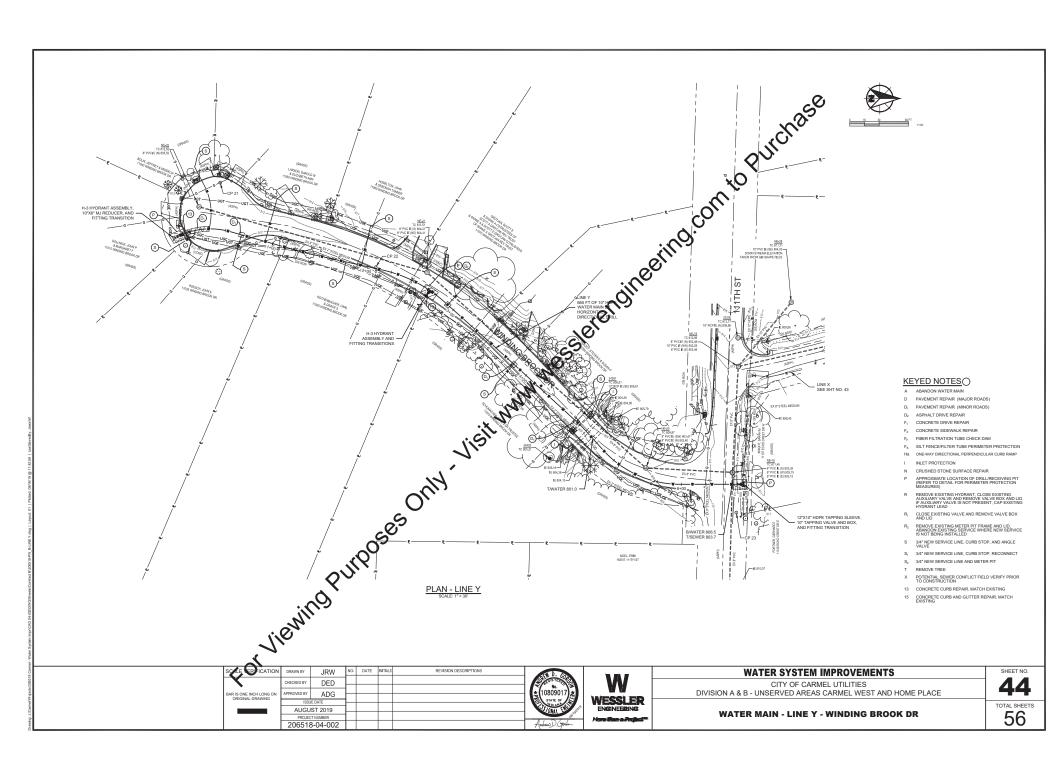


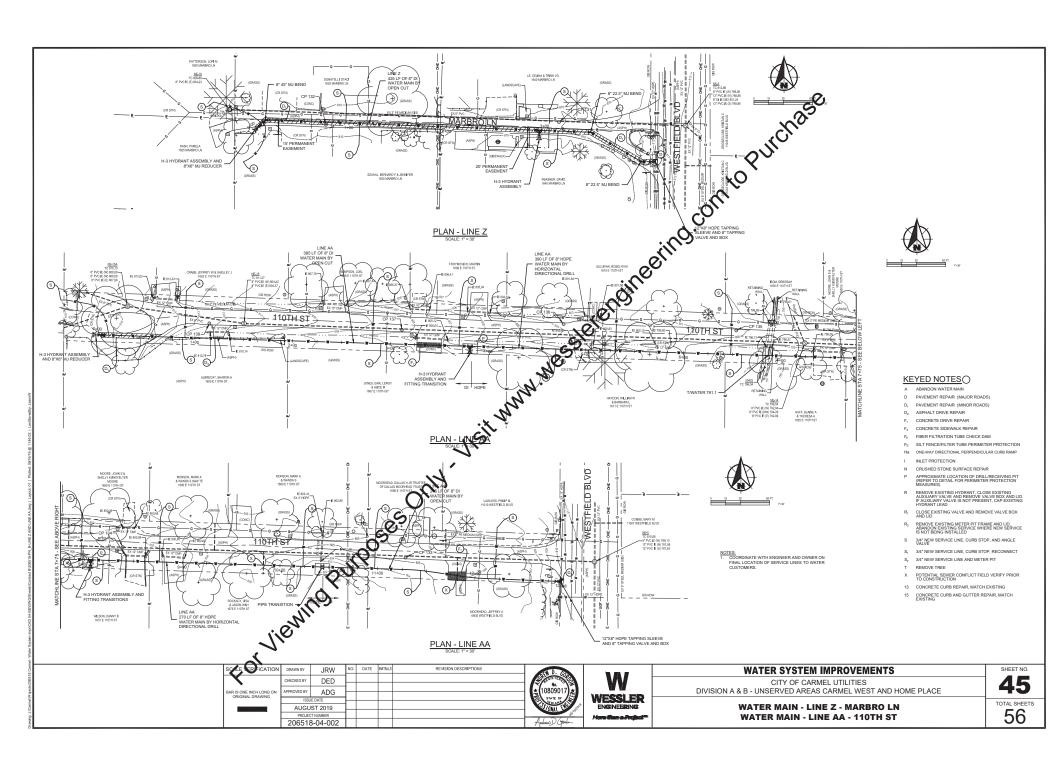


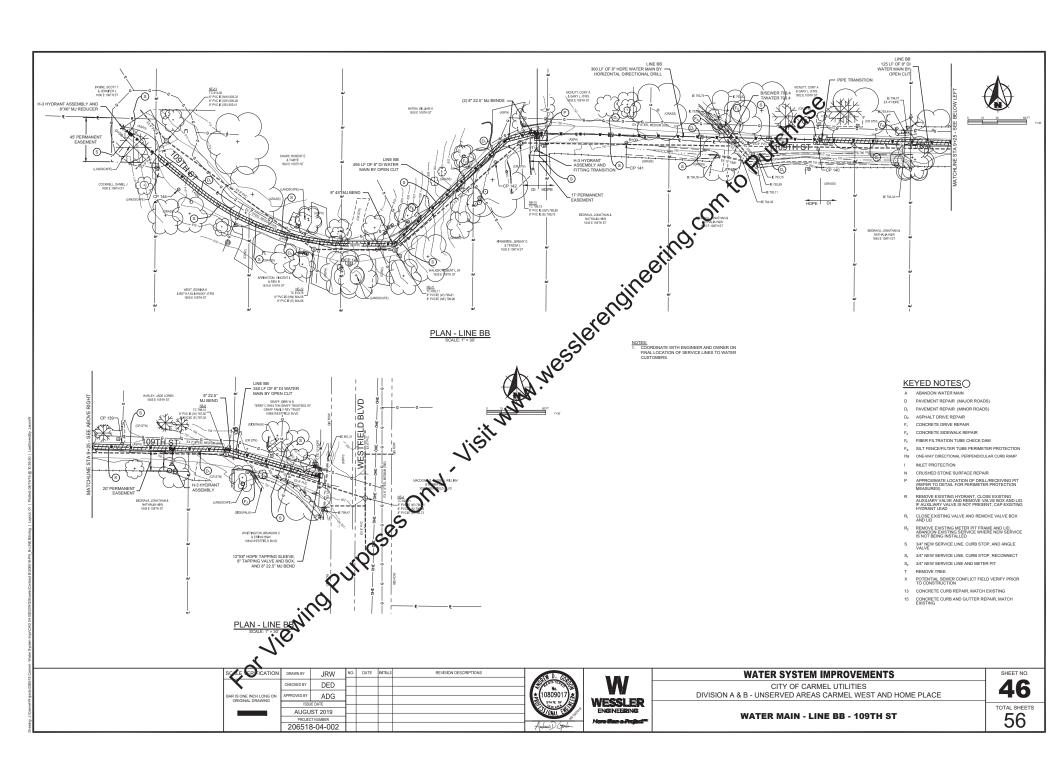


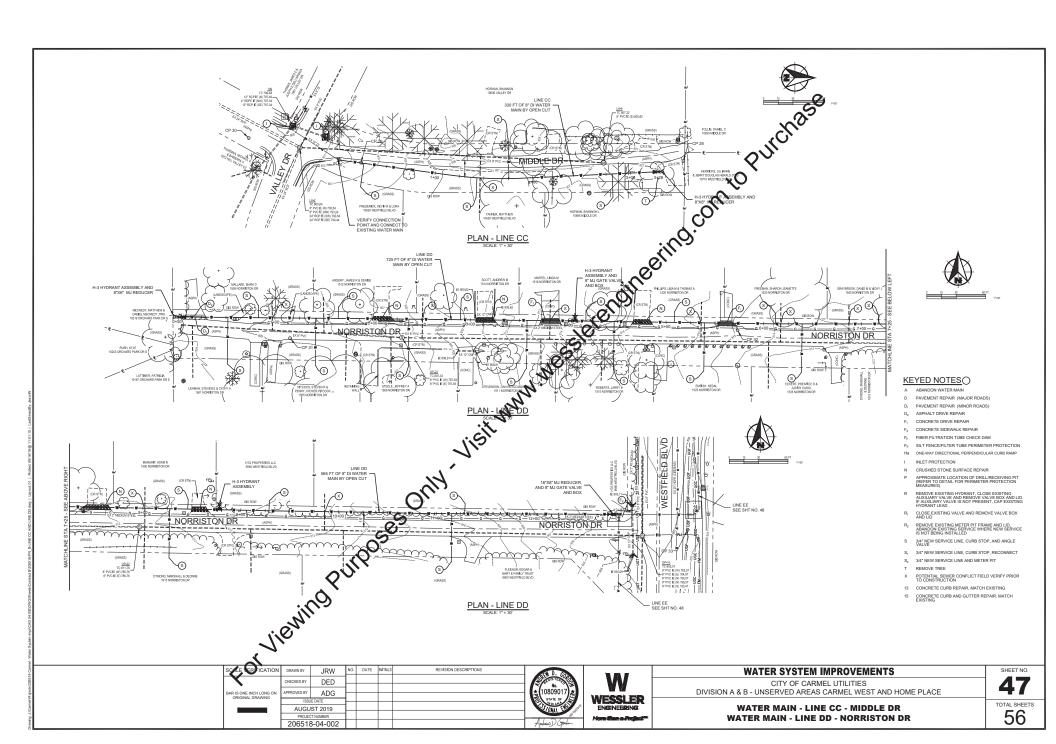


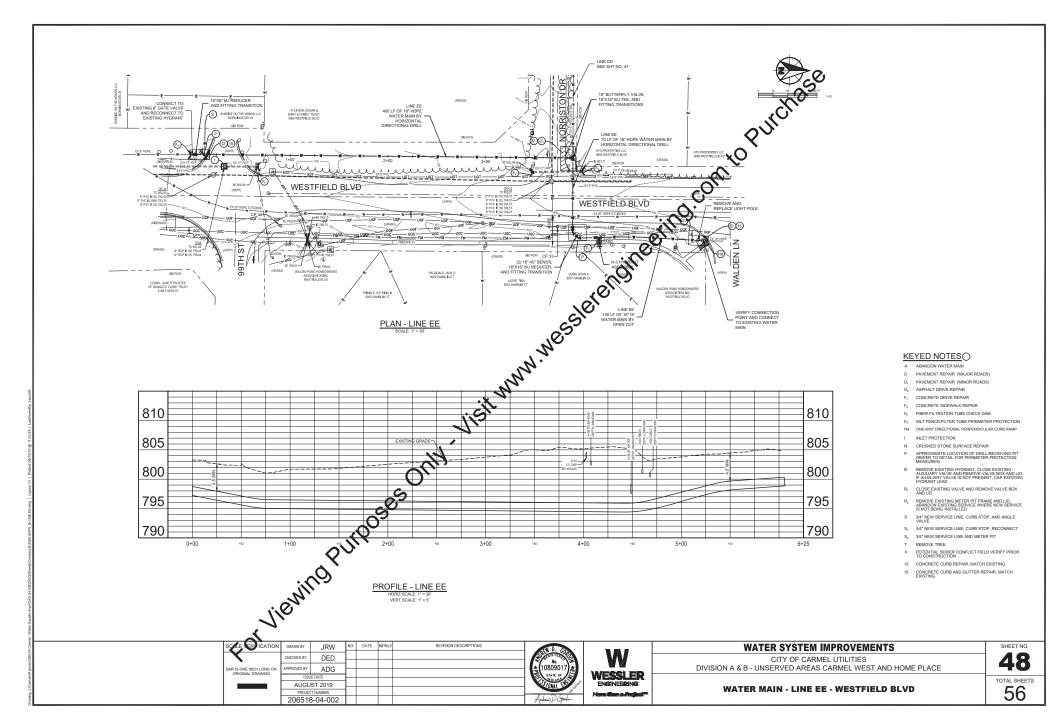














## TEMPORARY FLAGGER OPERATION

WORK AREA(S)

↑ "ROAD WORK AHEAD" (W20-1) OR "UTILITY WORK AHEAD" (W21-7)

ONE LANE ROAD AHEAD\* (W20-4)

S FLAGGER SIGN (W20-7)

◆ "END ROAD WORK" (G20-2)

## BARRICADE TYPE IIIB TRAFFIC CONTROL DRUM

→ TRAFFIC FLOW DIRECTION

100 100 100 500 520 600 100 1,000 1,600 2,640 680

100 1,000 1,600 2,640

NOTES

OBTANCES SHOWN ARE APPROXIMATE ADJUST SIGN FOR CURVES, HILLS, INTERSECTIONS, DRIVEWAYS, ETC TO IMPROVE SIGN VISIBILITY, OWNED, DAY DRIVES SHOULD SE A MISTINGE SHOULD SE A MISTINGE SHOULD SE A MISTINGE SHOULD SE A MISTINGE MISTINGEN SHOULD SHOULD SHOULD SE A MISTINGEN THE SHOULD SHO

ADVANCE WARNING SIGN AND FLAGGER OPERATION SPACING

TRAFFIC CONTROL NOTES:

1. PROVICE SIGNE AND PLACEMENT OF SIGNE IN COMPLANCE WITH THE MOTOR AND THE COMPLEX THE COMPLEX THE CONTROL OF SIGNED AND THE COMPLEX THE PLACE OF SIGNED AND THE COMPLEX THE PLACE OF SIGNED AND THE COMPLEX THE PLACE SIGNED AND THE COMPLEX SIGNED AND SOURCE FOR SIGNED AND THE COMPLEX SIGNED

SCALE SERVICATION DRAWY

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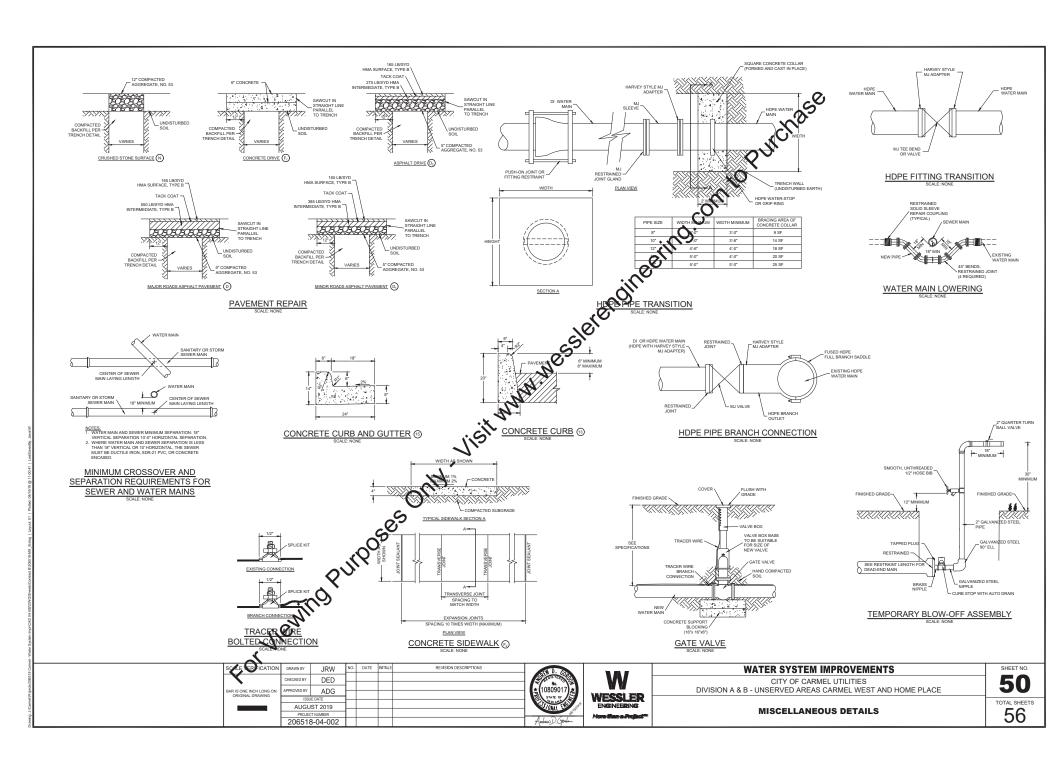


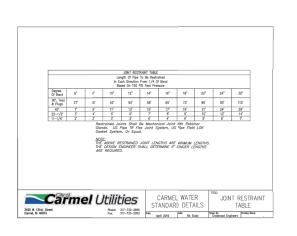
**WATER SYSTEM IMPROVEMENTS** 

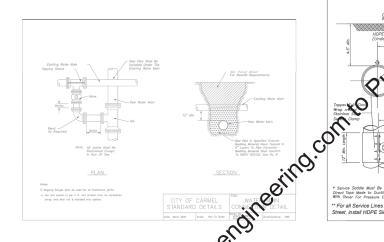
CITY OF CARMEL UTILITIES DIVISION A & B - UNSERVED AREAS CARMEL WEST AND HOME PLACE

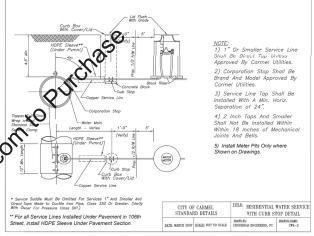
**MAINTENANCE OF TRAFFIC** 

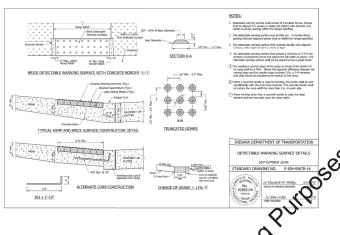
SHEET NO. 49 TOTAL SHEETS

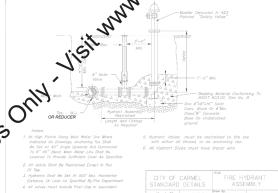




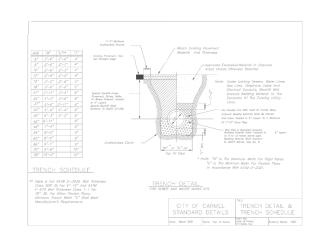








No. 1080901





WATER SYSTEM IMPROVEMENTS

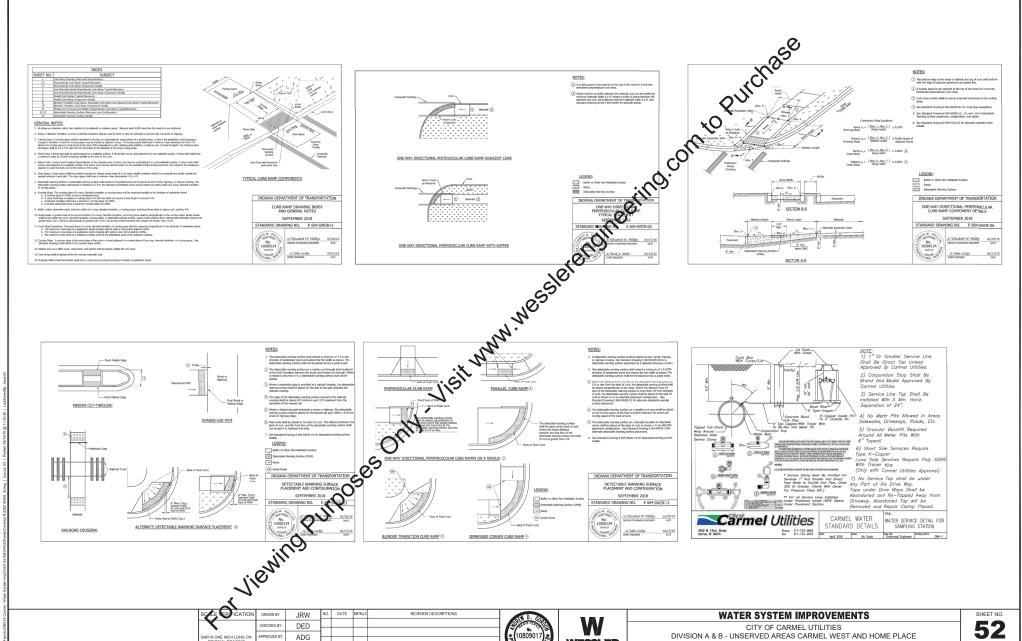
CITY OF CARMEL UTILITIES
DIVISION A & B - UNSERVED AREAS CARMEL WEST AND HOME PLACE

SHEET NO.

51

TOTAL SHEETS

MISCELLANEOUS DETAILS



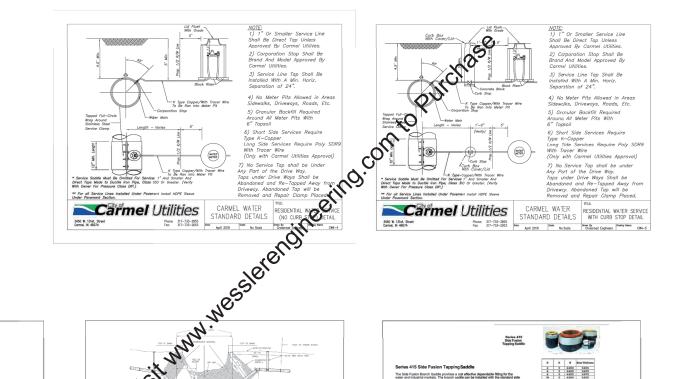
AUGUST 2019

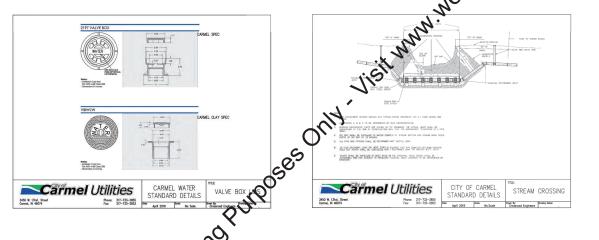
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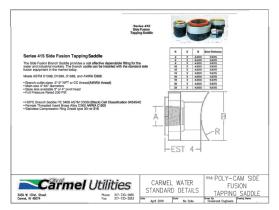
WESSLER

TOTAL SHEETS 56

**MISCELLANEOUS DETAILS** 







SCALE ERFICATION DRAWN BY JRW NO. DATE NITULS REVISION DESCRIPTIONS

DRAES ONE INCH LONG ON APPROVED BY ADG ISSUE DATE

AUGUST 2019

PROJECT MURBER 2006518-04-002



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WATER SYSTEM IMPROVEMENTS
CITY OF CARMEL UTILITIES

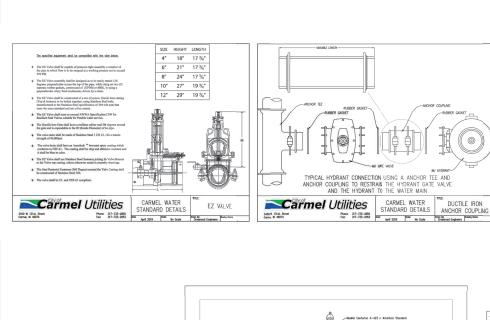
DIVISION A & B - UNSERVED AREAS CARMEL WEST AND HOME PLACE

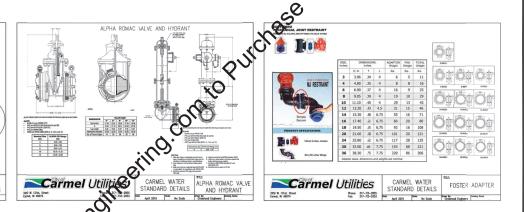
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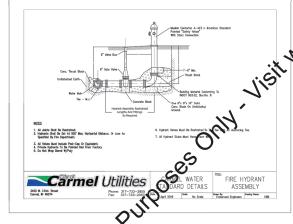
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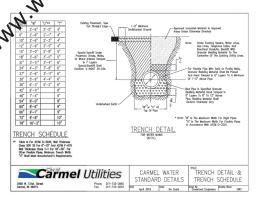
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TOTAL SHEETS











BAN IS ONE INCH LONG ON ORIGINAL DRAWNEY JRW NO. DATE NITMUS REVISION DESCRIPTIONS

ORIGINAL DRAWNEY DED Y DED APPROVED BY ADG ISSUE DATE

AUGUST 2019 PROJECT HUMBER 206518-04-002



WATER SYSTEM IMPROVEMENTS

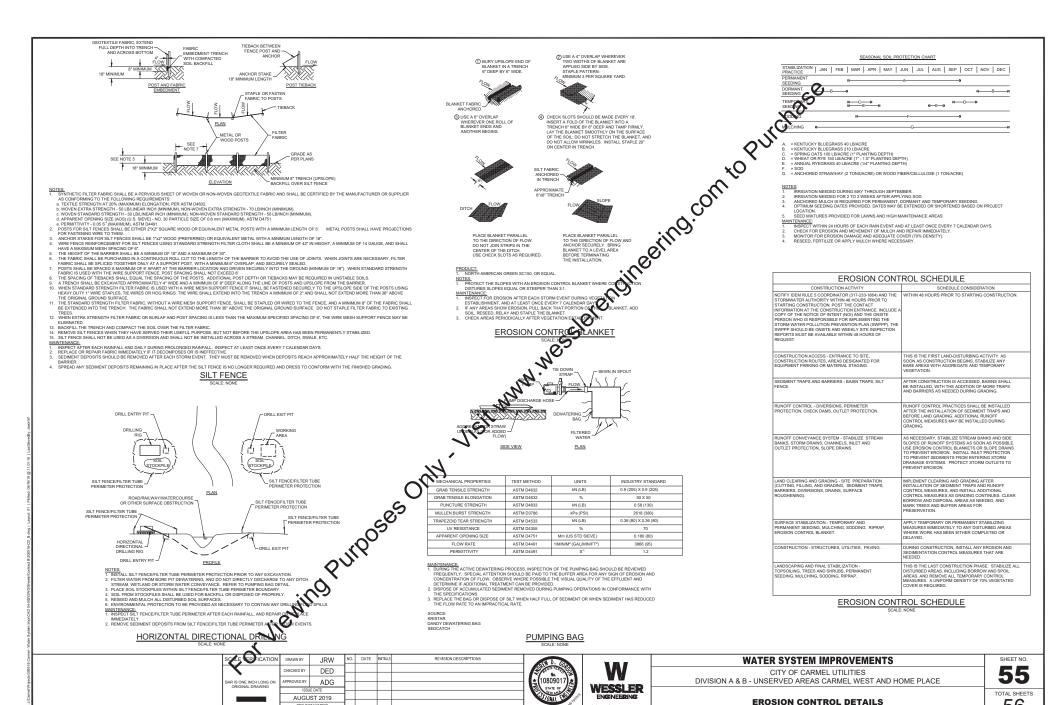
CITY OF CARMEL UTILITIES

DIVISION A & B - UNSERVED AREAS CARMEL WEST AND HOME PLACE

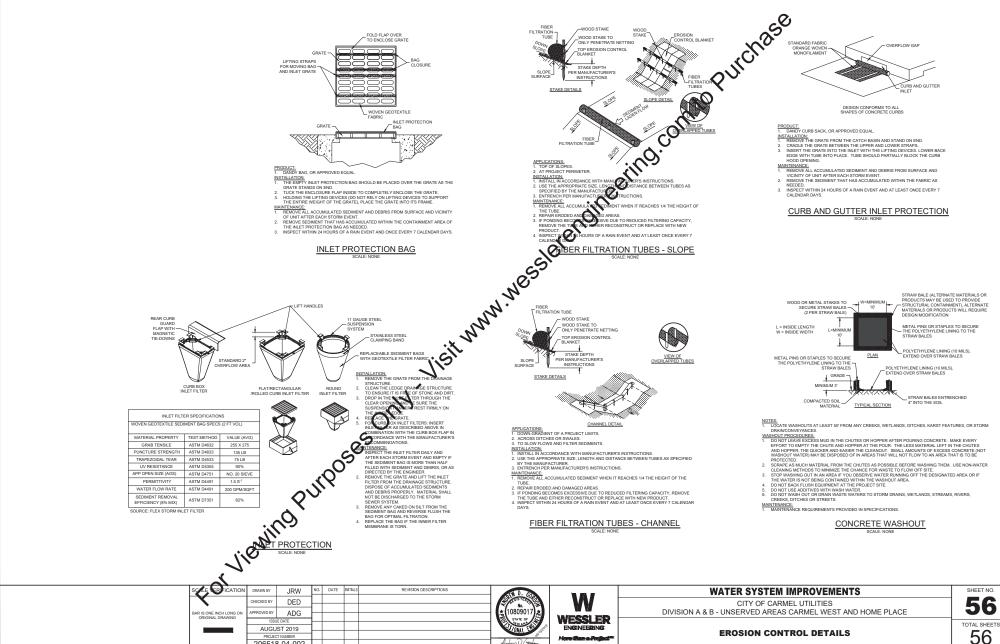
MISCELLANEOUS DETAILS

**54**TOTAL SHEETS **56** 

SHEET NO.



206518-04-002



206518-04-002