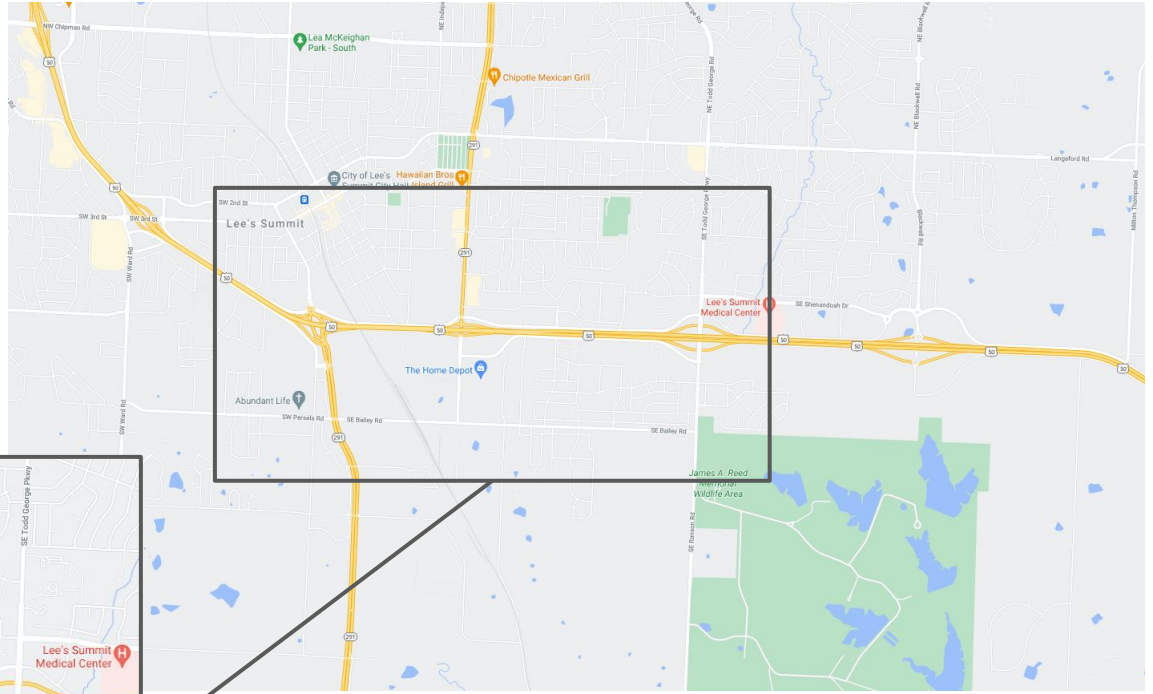
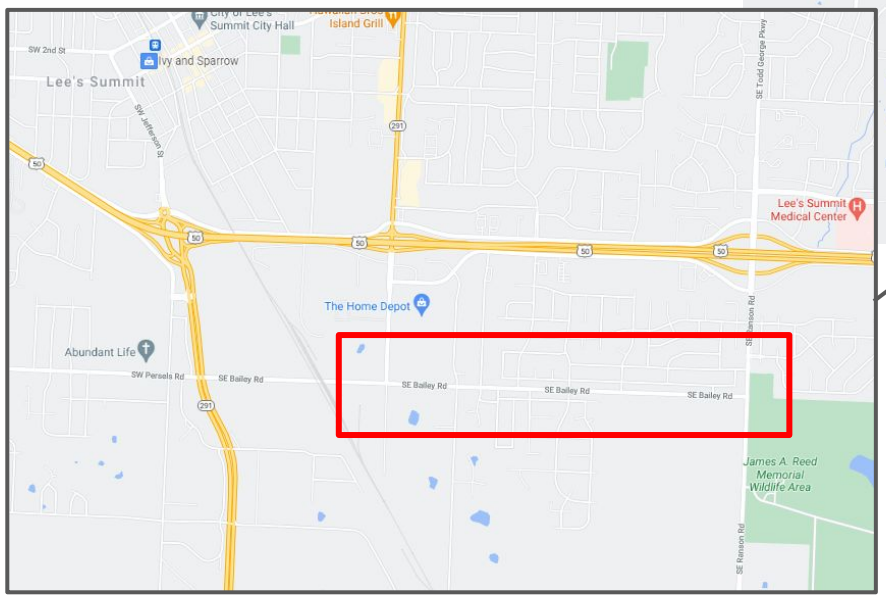
Lee's Summit New Middle School Roadway Improvements - SE Bailey Rd & SE Ranson Rd - Streamline Design

LOCATION


Lea McKeighan Park - South
Chipotle Mexican Grill
Hawaiian Bros
Lee's Summit
Lee's Summit Medical Center
The Home Depot
Abundant Life
James A. Reed Memorial Wildlife Area


Summit City Hall
Island Grill
Ivy and Sparrow
Lee's Summit
Lee's Summit Medical Center
The Home Depot
Abundant Life
SE Bailey Rd
James A. Reed Memorial Wildlife Area

Lee's Summit New Middle School Roadway Improvements - SE Bailey Rd & SE Ranson Rd

City Plans: here

DOT Plans: here

Relocation of distribution and access fiber to avoid new turn lanes since Google Fiber was located shallow throughout the area. There is new right of way to be obtained for the project, and in many areas Google Fiber will be utilizing the new the right of way. Since the right of way varies throughout the project, it is recommended that the new right of way get staked to ensure Google Fiber is clear of the turn lanes and sidewalks. There is a mixture of using existing and replacing fiber to assist with limited conduits and pull footage.

The contractor is responsible to ensure that municipality requirements are met, such as flowable fill and restoration.

Relocation of Conduit and Vaults:

Bore

(A-B): 13 Ft. DF Suburban conditions.
(B-C): 355 Ft. DF Suburban conditions.
(C-D): 305 Ft. DF Suburban conditions.
(D-E): 400 Ft. DF Suburban conditions.
(E-L): 105 Ft. DF Suburban conditions.

NOTES:

A: There is a down guy at this location that needs to be adjusted closer to the pole. Based on field conditions, it is recommended to install a sidewalk guy so the anchor and guy does not extend as far from the pole. Sidewalk will be installed 8.5 feet north of the pole.

Place Conduit

(A-B): Place new 3-2" conduit from A to B at a depth of 4' below grade.

(B-C): Place new 3-2" conduit from B to C at a depth of 4' below grade, place the conduit 23' south of the back of curb.

(C-D): Place new 3-2" conduit from C to D at a depth of 4' below grade, place the conduit 4' north of the proposed right of way.

(D-E): Place new 2" conduit from D to E at a depth of 4' below grade, place the conduit along the existing offset.

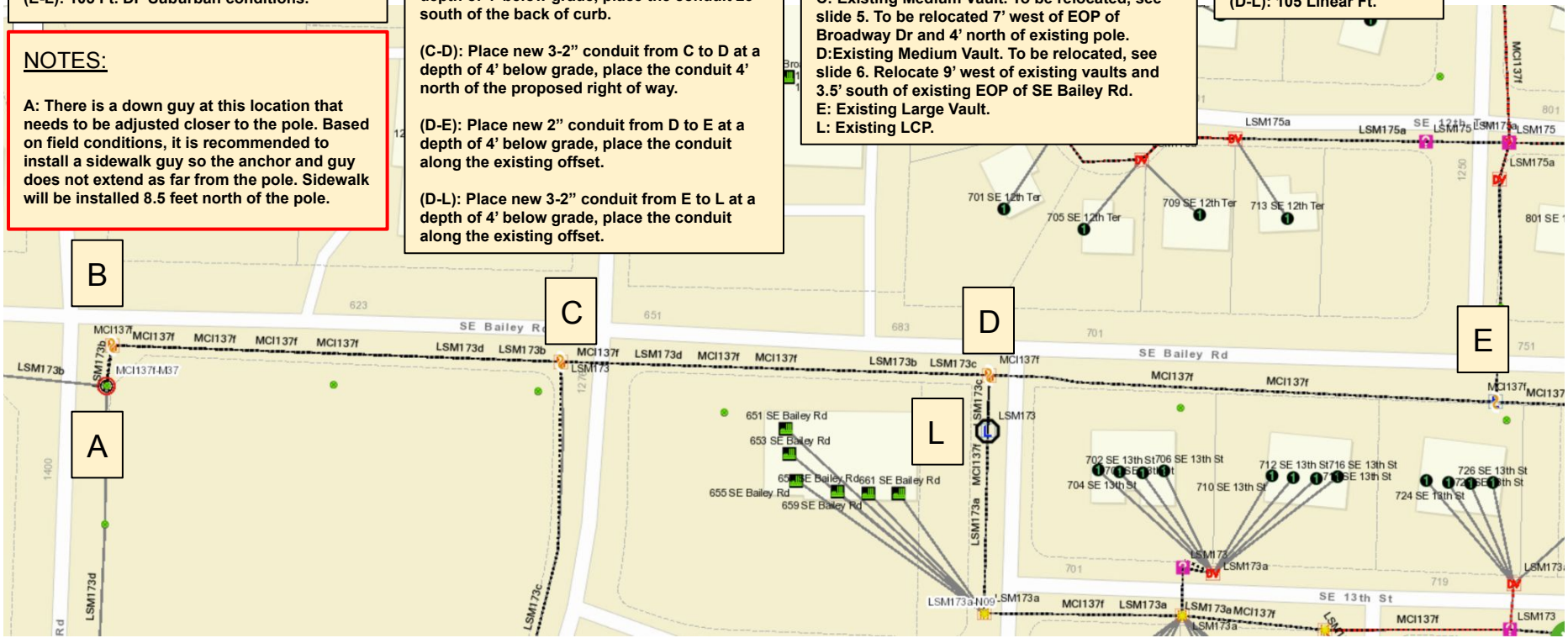
(D-L): Place new 3-2" conduit from E to L at a depth of 4' below grade, place the conduit along the existing offset.

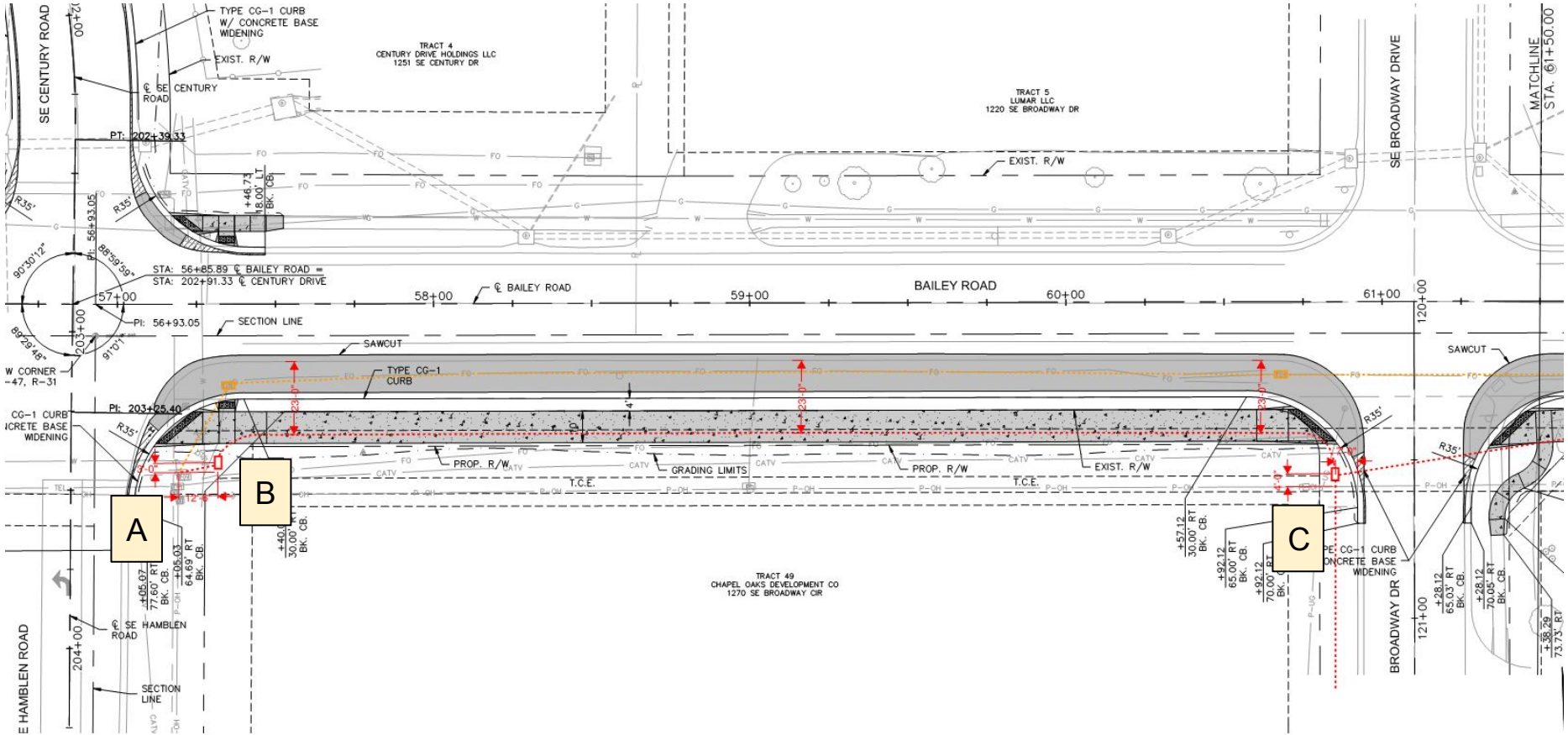
Vaults/Structures

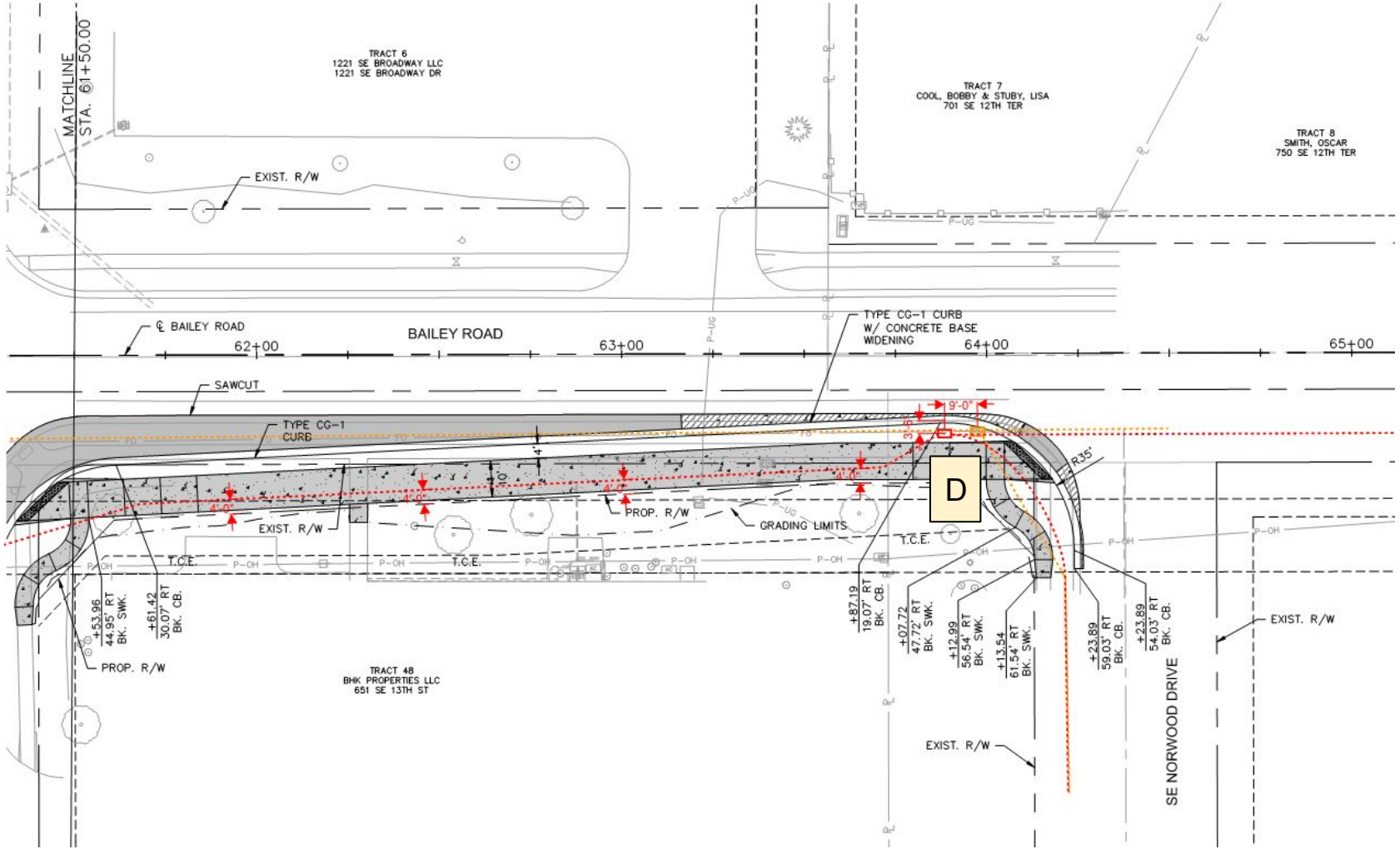
A: Existing Riser.
B: Existing Small Vault. To be relocated, see slide 5. Relocate 12.5' east of existing riser pole and 3' north of existing riser pole.
C: Existing Medium Vault. To be relocated, see slide 5. To be relocated 7' west of EOP of Broadway Dr and 4' north of existing pole.
D:Existing Medium Vault. To be relocated, see slide 6. Relocate 9' west of existing vaults and 3.5' south of existing EOP of SE Bailey Rd.
E: Existing Large Vault.
L: Existing LCP.

Span Distances

(A-B): 13 Linear Ft.
(B-C): 355 Linear Ft.
(C-D): 305 Linear Ft.
(D-E): 400 Linear Ft.
(D-L): 105 Linear Ft.




SE CENTURY ROAD
TYPE CG-1 CURB W/ CONCRETE BASE WIDENING
EXIST. R/W
℄ SE CENTURY ROAD
TRACT 4
CENTURY DRIVE HOLDINGS LLC
1251 SE CENTURY DR
TRACT 5
LUNAR LLC
1220 SE BROADWAY DR
SE BROADWAY DRIVE
MATCHLINE
STA. 61+50.00
PT: 202+39.33
EXIST. R/W
STA: 56+85.89 ℄ BAILEY ROAD =
STA: 202+91.33 ℄ CENTURY DRIVE
℄ BAILEY ROAD
BAILEY ROAD
57+00
58+00
59+00
60+00
61+00
PI: 56+93.05
SECTION LINE
SAWCUT
TYPE CG-1 CURB
PI: 203+25.40
PROP. R/W
GRADING LIMITS
T.C.E.
EXIST. R/W
A
B
C
TRACT 49
CHAPEL OAKS DEVELOPMENT CO
1270 SE BROADWAY CIR
℄ SE HAMBLEN ROAD
SECTION LINE
BROADWAY DR
120+00
121+00
204+00
203+00


MATCHLINE
STA. 61+50.00
TRACT 6
1221 SE BROADWAY LLC
1221 SE BROADWAY DR
TRACT 7
COOL, BOBBY & STUBY, LISA
701 SE 12TH TER
TRACT 8
SMITH, OSCAR
750 SE 12TH TER
EXIST. R/W
℄ BAILEY ROAD
BAILEY ROAD
62+00
63+00
64+00
65+00
TYPE CG-1 CURB
W/ CONCRETE BASE
WIDENING
SAWCUT
TYPE CG-1
CURB
9'-0"
3%
4%
R35'
D
EXIST. R/W
PROP. R/W
GRADING LIMITS
T.C.E.
T.C.E.
T.C.E.
P-OH
P-UG
+53.96
44.95' RT
BK. SWK.
±61.42
30.07' RT
BK. CB.
PROP. R/W
TRACT 48
BHK PROPERTIES LLC
651 SE 13TH ST
+87.19
19.07' RT
BK. CB.
±07.72
47.72' RT
BK. SWK.
±12.99
56.54' RT
BK. SWK.
±13.54
61.54' RT
BK. SWK.
±23.89
59.03' RT
BK. CB.
±23.89
54.03' RT
BK. CB.
EXIST. R/W
EXIST. R/W
SE NORWOOD DRIVE

Relocation of Conduit and Vaults:

Bore

(F-G): 1,280 Ft. DF Suburban conditions.

Vaults/Structures

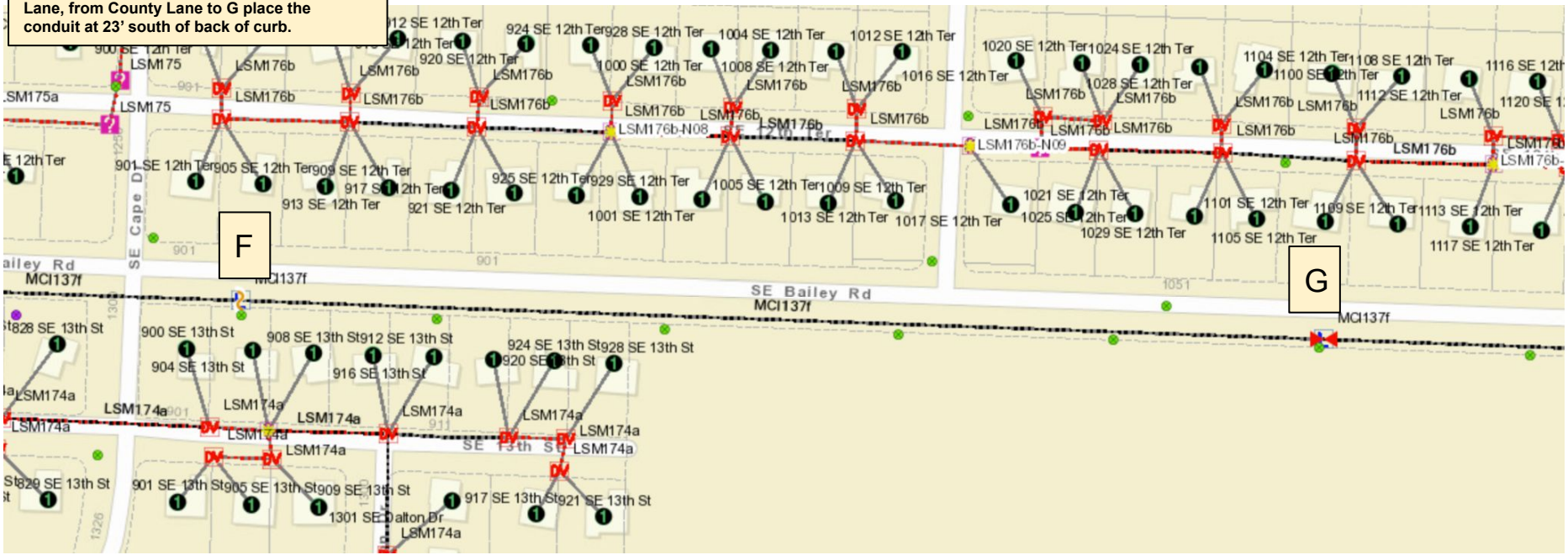
F: Existing Large Vault.
G: Existing Large Vault. To be relocated, see slide 10. Relocate 14' south of existing back of curb.

Span Distances

(F-G): 1,280 Linear Ft.

Place Conduit

(F-G): Place new 2" conduit from F to G at a depth of 4' below grade, place the conduit at 4' from the right of way between F and County Lane, from County Lane to G place the conduit at 23' south of back of curb.



Relocation of Conduit and Vaults:

Bore

(G-H): 1,300 Ft. DF Suburban conditions.
(H-I): 500 Ft. DF Suburban conditions.
(I-J): 505 Ft. DF Suburban conditions.

Place Conduit

(G-H): Place new 2" conduit from G to H at a depth of 4' below grade place the conduit 23' south of the back of curb, transition to be 4' north from the proposed right of way when across from 1201 SE 12th Terrace.

(H-I): Place new 2" conduit from H to I at a depth of 4' below grade, place the conduit 4' north of the existing and then proposed right of way.

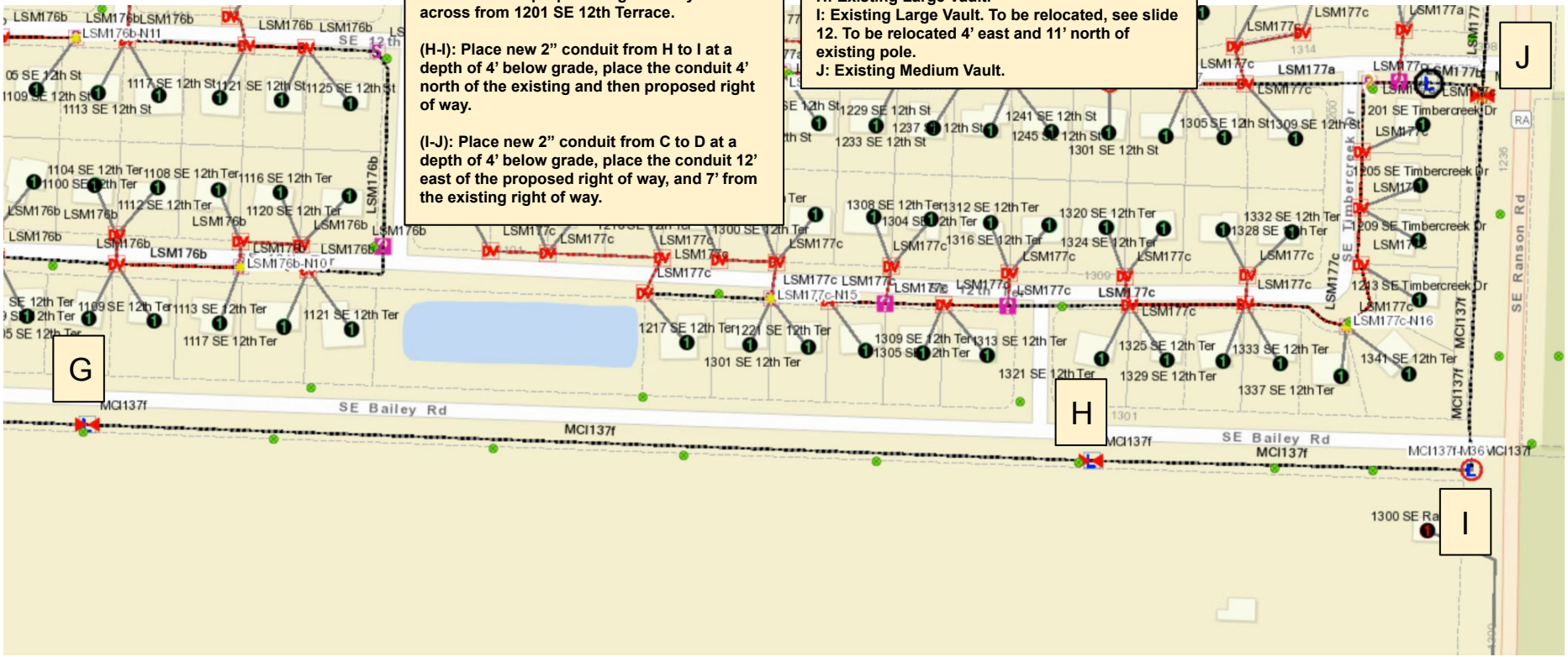
(I-J): Place new 2" conduit from C to D at a depth of 4' below grade, place the conduit 12' east of the proposed right of way, and 7' from the existing right of way.

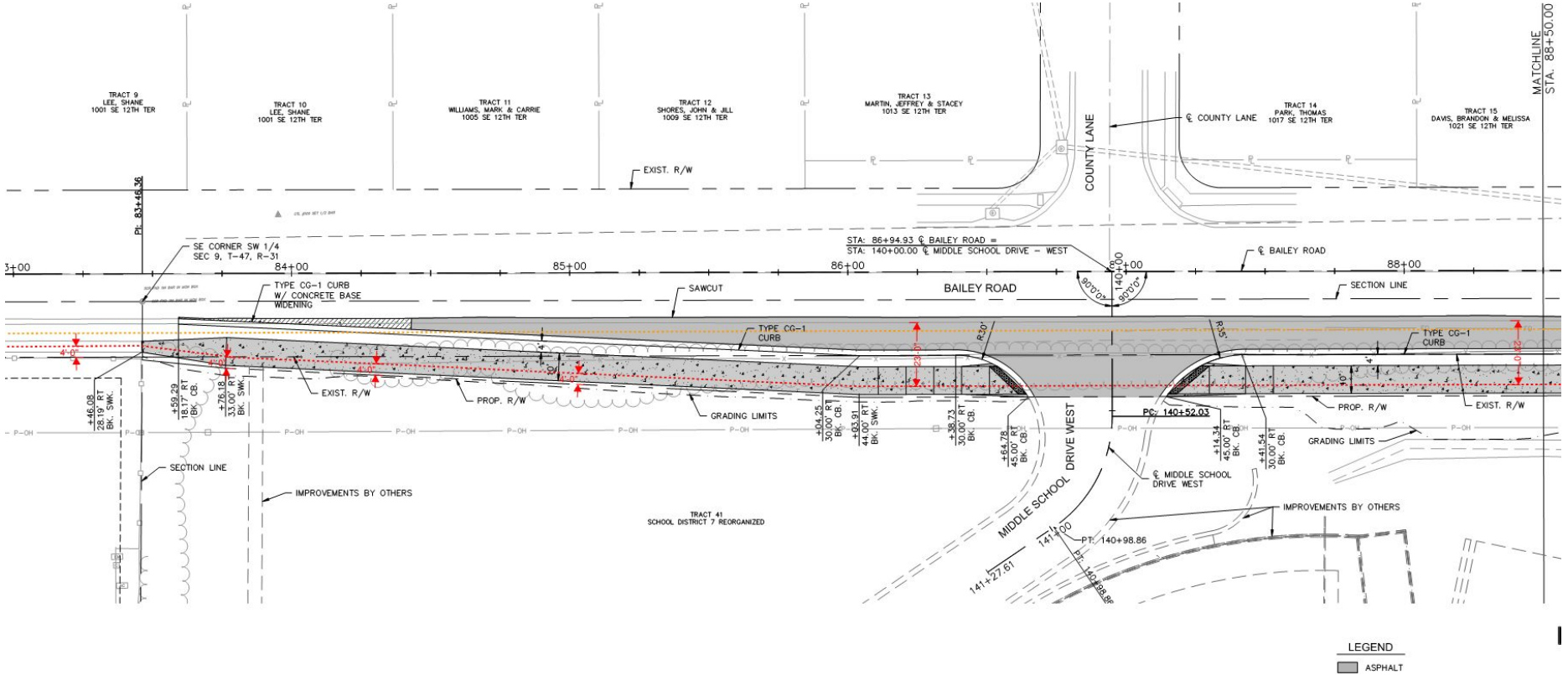
Vaults/Structures

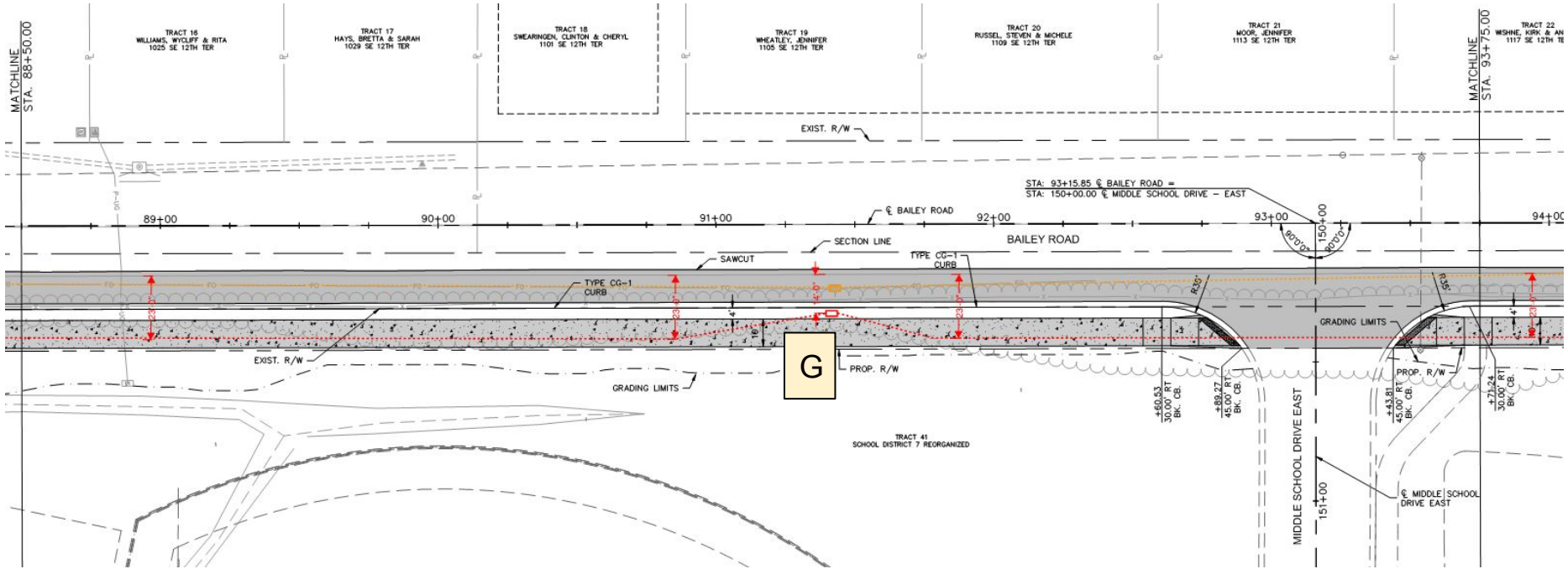
G: Existing Large Vault. To be relocated, see slide 10. Relocate 14' south of existing back of curb.
H: Existing Large Vault.
I: Existing Large Vault. To be relocated, see slide 12. To be relocated 4' east and 11' north of existing pole.
J: Existing Medium Vault.

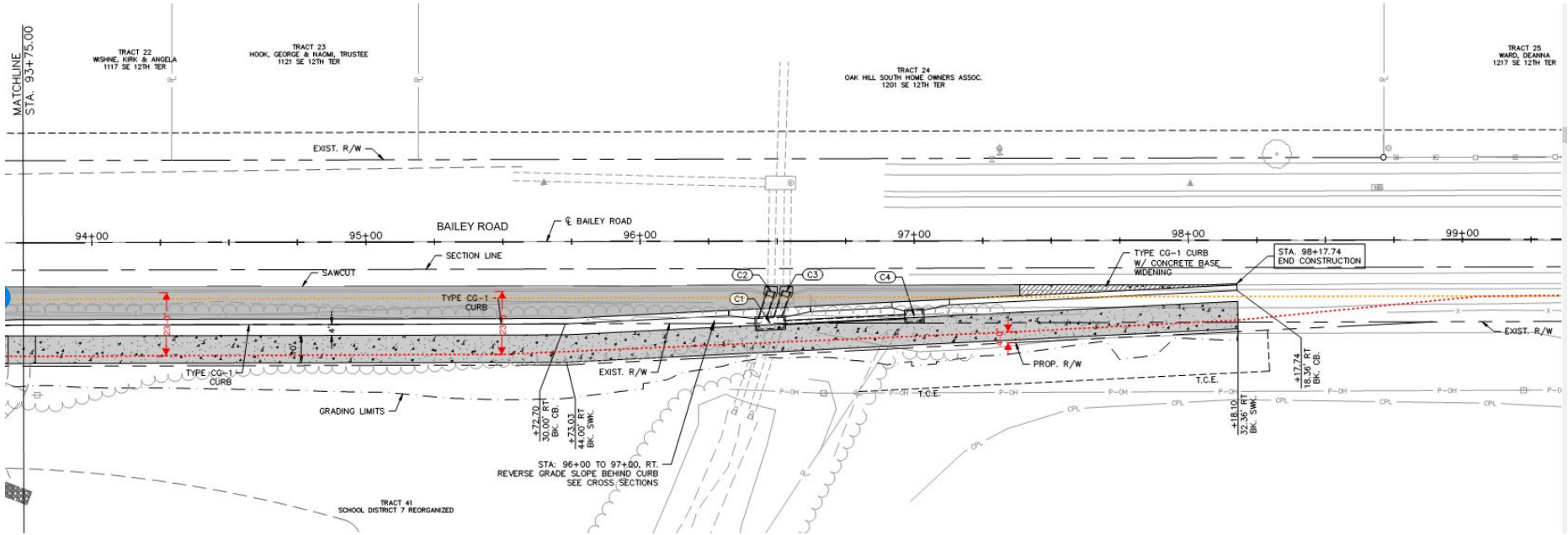
Span Distances

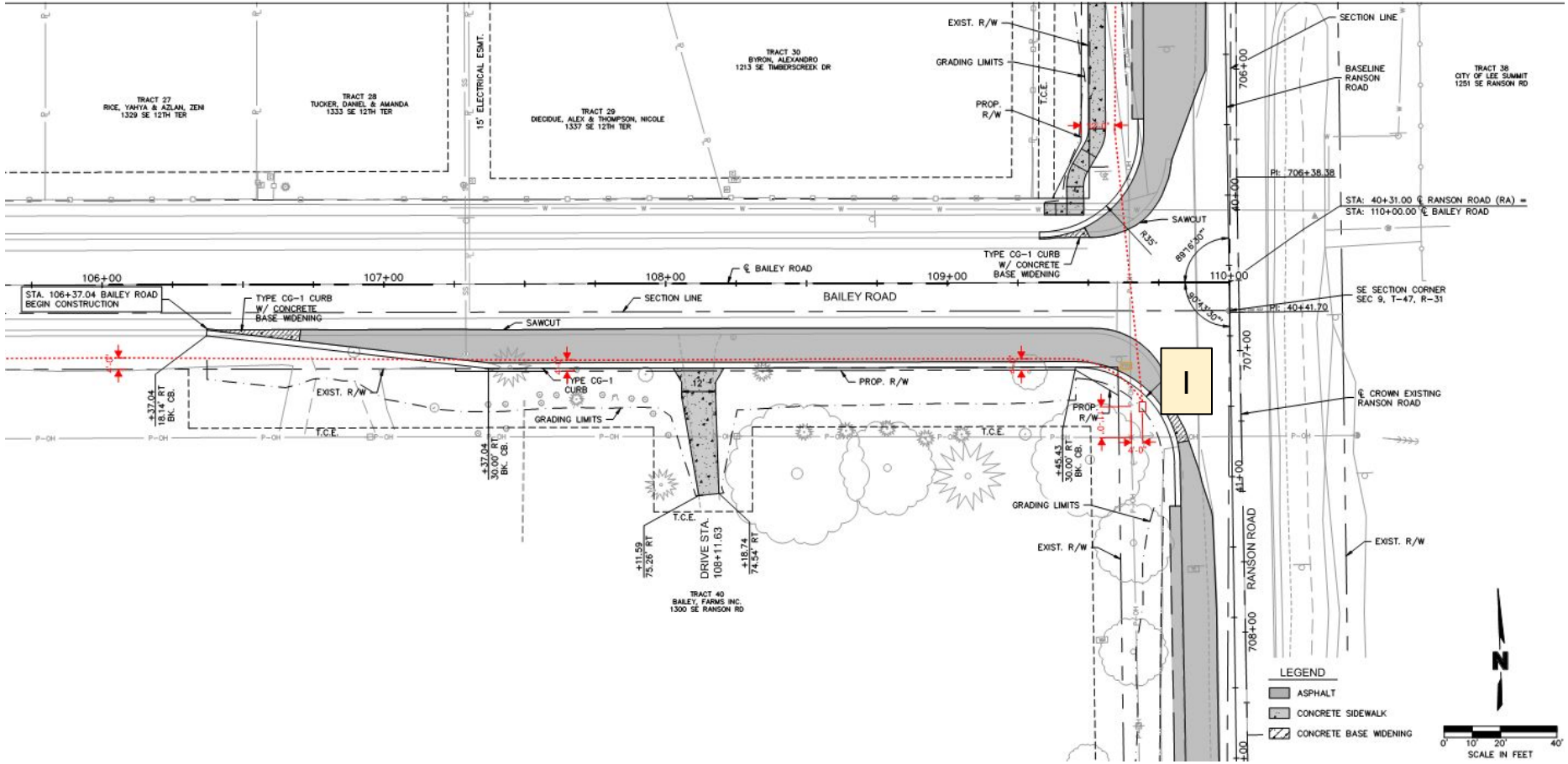
(G-H): 1,300 Linear Ft.
(H-I): 500 Linear Ft.
(I-J): 505 Linear Ft.

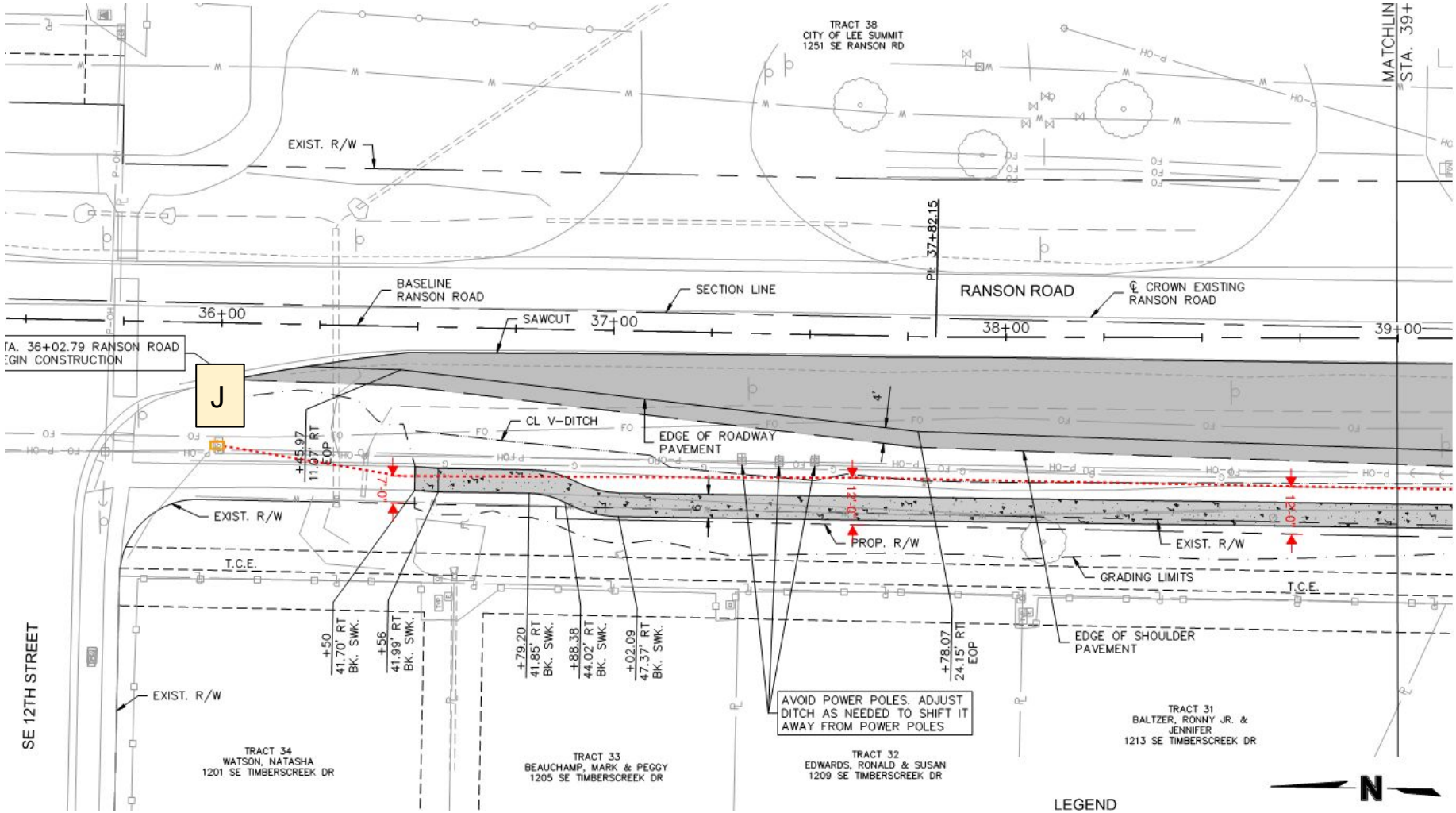



TRACT 9
LEE, SHANE
1001 SE 12TH TER
TRACT 10
LEE, SHANE
1001 SE 12TH TER
TRACT 11
WILLIAMS, MARK & CARRIE
1005 SE 12TH TER
TRACT 12
SHORES, JOHN & JILL
1009 SE 12TH TER
TRACT 13
MARTIN, JEFFREY & STACEY
1013 SE 12TH TER
TRACT 14
PARK, THOMAS
1017 SE 12TH TER
TRACT 15
DAVIS, BRANDON & MELISSA
1021 SE 12TH TER
MATCHLINE
STA: 88+50.00
COUNTY LANE
℄ COUNTY LANE
EXIST. R/W
Pt: 83+46.36
SE CORNER SW 1/4
SEC 9, T-47, R-31
STA: 86+94.93 ℄ BAILEY ROAD =
STA: 140+00.00 ℄ MIDDLE SCHOOL DRIVE - WEST
℄ BAILEY ROAD
84+00
85+00
86+00
140+00
88+00
TYPE CG-1 CURB
W/ CONCRETE BASE
WIDENING
SAWCUT
BAILEY ROAD
SECTION LINE
90°01'05"
90°01'05"
TYPE CG-1
CURB
R30'
R35'
TYPE CG-1
CURB
4'-6"
4'-6"
4.0%
4.0%
4.0%
4.0%
EXIST. R/W
PROP. R/W
GRADING LIMITS
PC: 140+52.03
PROP. R/W
EXIST. R/W
GRADING LIMITS
±46.08
28.19' RT
BK. SWK.
±59.29
18.17' RT
BK. CB.
±76.18
33.00' RT
BK. SWK.
±04.25
30.00' RT
BK. CB.
±63.91
44.00' RT
BK. SWK.
±38.73
30.00' RT
BK. CB.
±64.78
45.00' RT
BK. CB.
±14.34
45.00' RT
BK. CB.
±41.54
30.00' RT
BK. CB.
SECTION LINE
IMPROVEMENTS BY OTHERS
TRACT 41
SCHOOL DISTRICT 7 REORGANIZED
MIDDLE SCHOOL DRIVE WEST
℄ MIDDLE SCHOOL
DRIVE WEST
IMPROVEMENTS BY OTHERS
141+00
PT: 140+98.86
141+27.61
LEGEND
ASPHALT


MATCHLINE
STA. 88+50.00
TRACT 16
WILLIAMS, WYCLIFF & RITA
1025 SE 12TH TER
TRACT 17
HAYS, BRETTA & SARAH
1029 SE 12TH TER
TRACT 18
SWEARINGEN, CLINTON & CHERYL
1101 SE 12TH TER
TRACT 19
WHEATLEY, JENNIFER
1105 SE 12TH TER
TRACT 20
RUSSEL, STEVEN & MICHELE
1109 SE 12TH TER
TRACT 21
MOOR, JENNIFER
1113 SE 12TH TER
TRACT 22
WISHNE, KIRK & AN
1117 SE 12TH TE
MATCHLINE
STA. 93+75.00
EXIST. R/W
STA: 93+15.85 ℄ BAILEY ROAD =
STA: 150+00.00 ℄ MIDDLE SCHOOL DRIVE – EAST
89+00
90+00
91+00
℄ BAILEY ROAD
92+00
93+00
150+00
94+00
BAILEY ROAD
SECTION LINE
SAWCUT
TYPE CG-1
CURB
TYPE CG-1
CURB
R35'
R35'
GRADING LIMITS
EXIST. R/W
GRADING LIMITS
G
PROP. R/W
PROP. R/W
+60.53
30.00' RT
BK. CB.
+89.27
45.00' RT
BK. CB.
+43.81
45.00' RT
BK. CB.
+71.24
30.00' RT
BK. CB.
TRACT 41
SCHOOL DISTRICT 7 REORGANIZED
MIDDLE SCHOOL DRIVE EAST
151+00
℄ MIDDLE SCHOOL
DRIVE EAST


MATCHLINE
STA. 93+75.00
TRACT 22
WISHNE, KIRK & ANGELA
1117 SE 12TH TER
TRACT 23
HOOK, GEORGE & NAOMI, TRUSTEE
1121 SE 12TH TER
TRACT 24
OAK HILL SOUTH HOME OWNERS ASSOC.
1201 SE 12TH TER
TRACT 25
WARD, DEANNA
1217 SE 12TH TER
EXIST. R/W
BAILEY ROAD
℄ BAILEY ROAD
94+00
95+00
96+00
97+00
98+00
99+00
SECTION LINE
SAWCUT
TYPE CG-1 CURB
TYPE CG-1 CURB W/ CONCRETE BASE WIDENING
STA. 98+17.74
END CONSTRUCTION
C1
C2
C3
C4
23"
23"
6"
EXIST. R/W
PROP. R/W
T.C.E.
GRADING LIMITS
+72.70
30.00' RT
BK. CB.
+73.03
44.00' RT
BK. SWK.
+17.74
18.36' RT
BK. CB.
+18.10
32.36' RT
BK. SWK.
STA: 96+00 TO 97+00, RT.
REVERSE GRADE SLOPE BEHIND CURB
SEE CROSS SECTIONS
TRACT 41
SCHOOL DISTRICT 7 REORGANIZED


TRACT 27
RICE, YAHYA & AZLAN, ZENI
1329 SE 12TH TER
TRACT 28
TUCKER, DANIEL & AMANDA
1333 SE 12TH TER
15' ELECTRICAL ESMT.
TRACT 29
DIECIDUE, ALEX & THOMPSON, NICOLE
1337 SE 12TH TER
TRACT 30
BYRON, ALEXANDRO
1213 SE TIMBERSCREEK DR
EXIST. R/W
GRADING LIMITS
PROP. R/W
T.C.E.
SECTION LINE
BASELINE RANSON ROAD
TRACT 38
CITY OF LEE SUMMIT
1251 SE RANSON RD
706+00
PI: 706+38.38
STA: 40+31.00 ℄ RANSON ROAD (RA) =
STA: 110+00.00 ℄ BAILEY ROAD
SAWCUT
R35'
89°16'20"
TYPE CG-1 CURB
W/ CONCRETE
BASE WIDENING
℄ BAILEY ROAD
106+00
107+00
108+00
109+00
110+00
BAILEY ROAD
STA. 106+37.04 BAILEY ROAD
BEGIN CONSTRUCTION
TYPE CG-1 CURB
W/ CONCRETE
BASE WIDENING
SECTION LINE
SAWCUT
80°43'50"
PI: 40+41.70
SE SECTION CORNER
SEC 9, T-47, R-31
707+00
±37.04
18.14' RT
BK. CB.
EXIST. R/W
TYPE CG-1
CURB
PROP. R/W
GRADING LIMITS
T.C.E.
±37.04
30.00' RT
BK. CB.
T.C.E.
±45.43
30.00' RT
BK. CB.
℄ CROWN EXISTING
RANSON ROAD
GRADING LIMITS
EXIST. R/W
±11.59
75.26' RT
DRIVE STA.
108+11.63
±18.74
74.54' RT
TRACT 40
BAILEY, FARMS INC.
1300 SE RANSON RD
RANSON ROAD
708+00
EXIST. R/W
LEGEND
ASPHALT
CONCRETE SIDEWALK
CONCRETE BASE WIDENING
N
0' 10' 20' 40'
SCALE IN FEET


TRACT 38
CITY OF LEE SUMMIT
1251 SE RANSON RD
MATCHLIN
STA. 39+
EXIST. R/W
Pt. 37+82.15
BASELINE
RANSON ROAD
SECTION LINE
RANSON ROAD
℄ CROWN EXISTING
RANSON ROAD
36+00
SAWCUT
37+00
38+00
39+00
TA. 36+02.79 RANSON ROAD
EGIN CONSTRUCTION
J
CL V-DITCH
EDGE OF ROADWAY
PAVEMENT
+45.97
11.67' RT
EOP
7.0'
4"
6"
12.0'
12.0'
EXIST. R/W
PROP. R/W
EXIST. R/W
T.C.E.
GRADING LIMITS
T.C.E.
+50
41.70' RT
BK. SWK.
+56
41.99' RT
BK. SWK.
+79.20
41.85' RT
BK. SWK.
+88.38
44.02' RT
BK. SWK.
+02.09
47.37' RT
BK. SWK.
+78.07
24.15' RT
EOP
EDGE OF SHOULDER
PAVEMENT
SE 12TH STREET
EXIST. R/W
AVOID POWER POLES. ADJUST
DITCH AS NEEDED TO SHIFT IT
AWAY FROM POWER POLES
TRACT 34
WATSON, NATASHA
1201 SE TIMBERSCREEK DR
TRACT 33
BEAUCHAMP, MARK & PEGGY
1205 SE TIMBERSCREEK DR
TRACT 32
EDWARDS, RONALD & SUSAN
1209 SE TIMBERSCREEK DR
TRACT 31
BALTZER, RONNY JR. &
JENNIFER
1213 SE TIMBERSCREEK DR
N
LEGEND

Relocation of Conduit and Vaults:

Bore

(G-H): 390 Ft. AF Suburban conditions.

Place Conduit

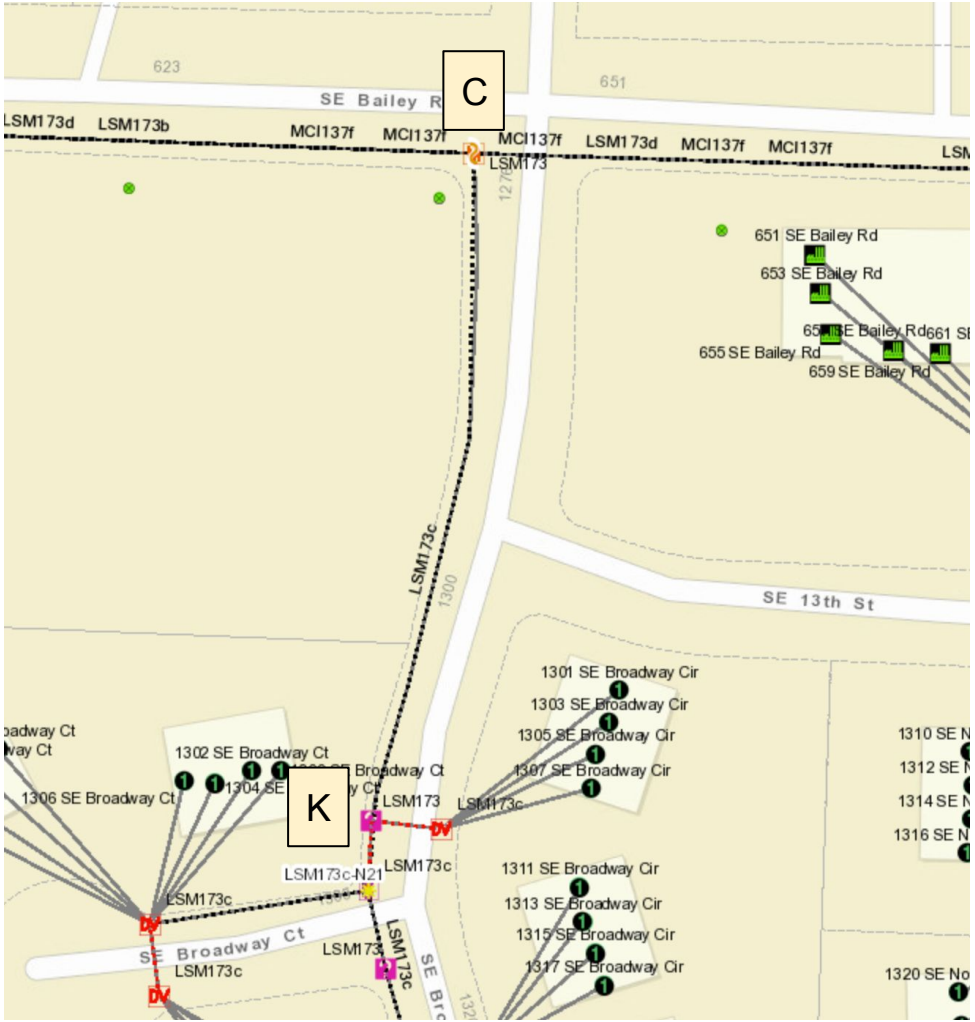
(C-K): Place new 2” conduit from C to K at a depth of 4’ below grade place the conduit along the existing offset.

Vaults/Structures

C: Existing Medium Vault. To be relocated, see slide 5. To be relocated 7’ west of EOP of Broadway Dr and 4’ north of existing pole.
K: Existing Small Vault.

Span Distances

(C-K): 390 Linear Ft.



Relocation of Fiber (MCI137f Distribution):

Vaults/Structures

A: Existing Riser.
B: Existing Small Vault. To be relocated, see slide 5. Relocate 12.5' east of existing riser pole and 3' north of existing riser pole.
C: Existing Medium Vault. To be relocated, see slide 5. To be relocated 7' west of EOP of Broadway Dr and 4' north of existing pole.
D:Existing Medium Vault. To be relocated, see slide 6. Relocate 9' west of existing vaults and 3.5' south of existing EOP of SE Bailey Rd.
E: Existing Large Vault.
L: Existing LCP.

Fiber

DF: ~ 778 linear Ft., 288ct MCI137f

Place new fiber from A to L in the new conduit. Place 50' slack at A, C, and L.

DF: Use Existing, 96ct MCI137f

Release fiber at A and pull back to E, place in the conduit from E to A and reattach at the Splice at A.

DF: Use Existing, 24ct MCI137f

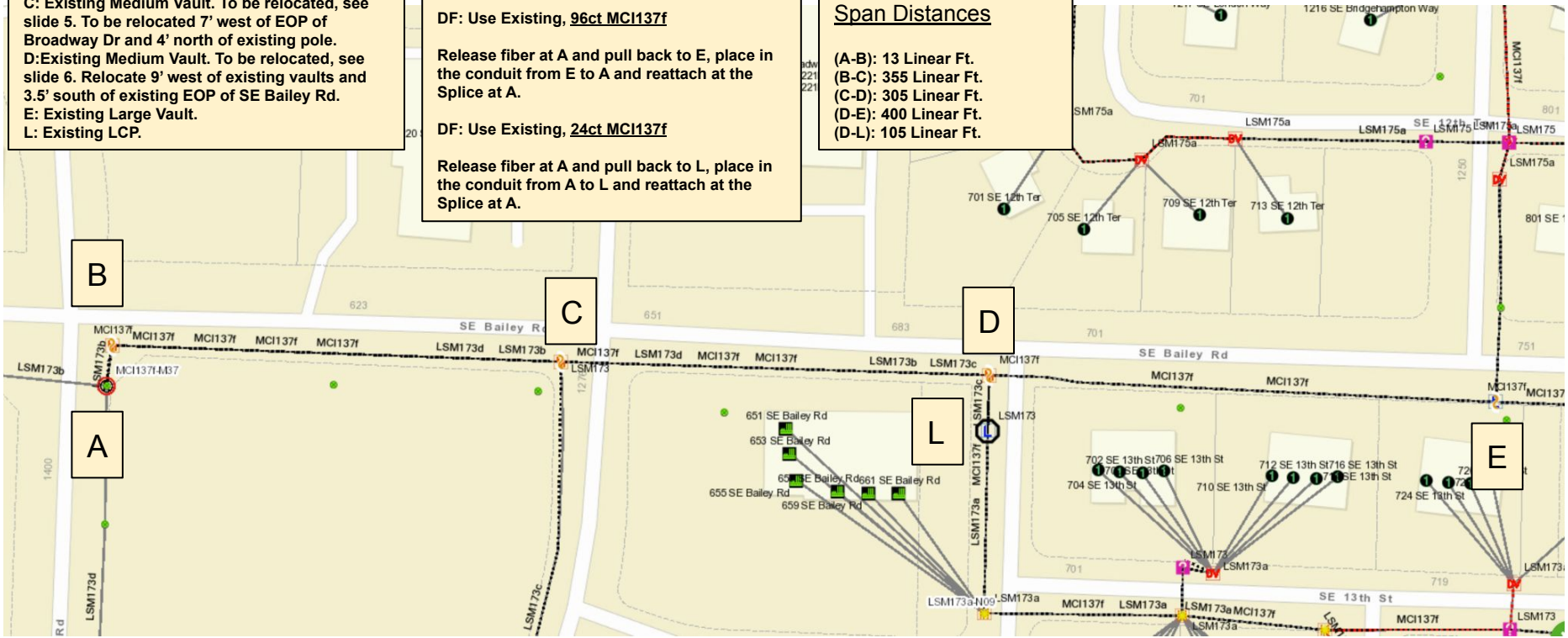
Release fiber at A and pull back to L, place in the conduit from A to L and reattach at the Splice at A.

Splices/LCP

A: Existing MCI137f-M07
L: Existing LCP LSM173

Span Distances

(A-B): 13 Linear Ft.
(B-C): 355 Linear Ft.
(C-D): 305 Linear Ft.
(D-E): 400 Linear Ft.
(D-L): 105 Linear Ft.



Relocation of Fiber (MCI137f Distribution):

Vaults/Structures

A: Existing Riser.
I: Existing Large Vault. To be relocated, see slide 12. To be relocated 4' east and 11' north of existing pole.
J: Existing Medium Vault.
M: Existing LCP LSM177.

Fiber

DF: ~ 6,053 linear Ft., 96ct MCI137f

Place new fiber from A to M in the new conduit. Place 50' slack at A, I, J, M, and as needed along the route to assist with fiber pulling. Splice at A, I, and M.

DF: Use Existing, 2x24ct MCI137f

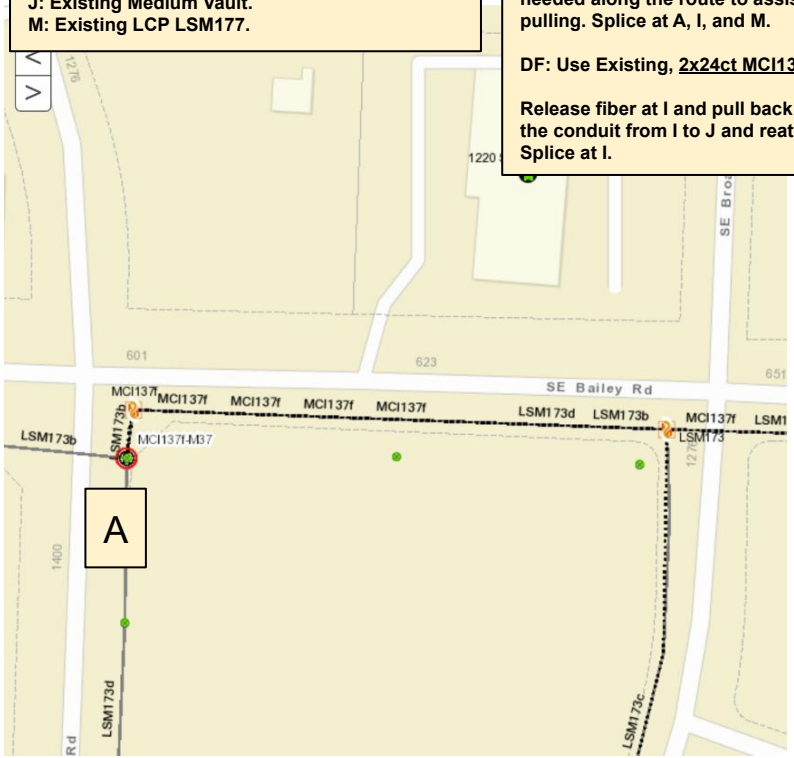
Release fiber at I and pull back to J, place in the conduit from I to J and reattach at the Splice at I.

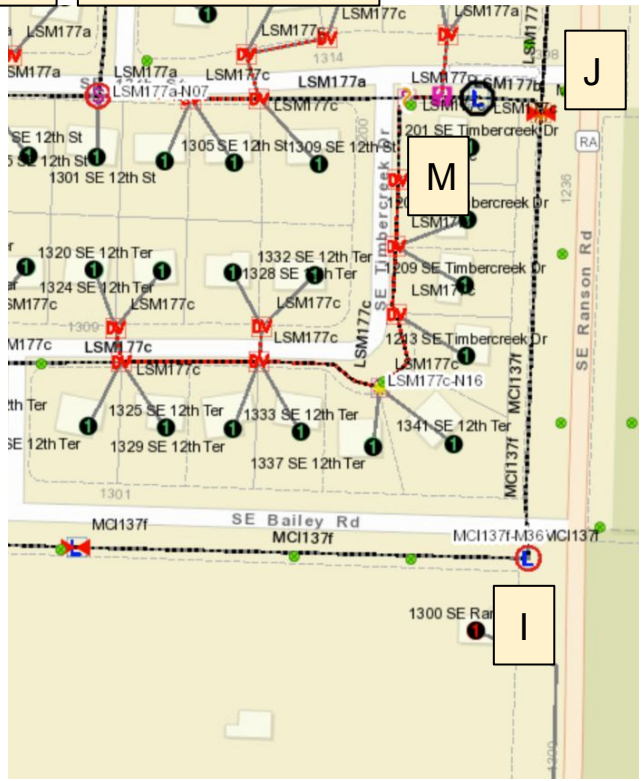
Splices/LCP

A: Existing MCI137f-M07
I: Existing MCI137f-M36
M: Existing LCP LSM177

Span Distances

(A-I): 5,273 Linear Ft.
(I-J): 505 Linear Ft.
(J-M): 75 Linear Ft.





Relocation of Fiber (LSM173 Access):

Vaults/Structures

A: Existing Riser.
B: Existing Small Vault. To be relocated, see slide 5. Relocate 12.5' east of existing riser pole and 3' north of existing riser pole.
C: Existing Medium Vault. To be relocated, see slide 5. To be relocated 7' west of EOP of Broadway Dr and 4' north of existing pole.
D:Existing Medium Vault. To be relocated, see slide 6. Relocate 9' west of existing vaults and 3.5' south of existing EOP of SE Bailey Rd.
L: Existing LCP.
K: Existing Small Vault.

Span Distances

(A-B): 13 Linear Ft.
(B-C): 355 Linear Ft.
(C-D): 305 Linear Ft.
(C-K): 390 Linear Ft.
(D-L): 105 Linear Ft.

Fiber

AF: Use Existing , 96ct LSM173b

Release fiber at L and pull back to A, place in the conduit from A to L and terminate fiber at L.

AF:~ 950 linear Ft., 48ct LSM173c

Place new fiber from K to L in the new conduit. Place 50' slack at K, C, and L.

AF: Use Existing, 12ct LSM173d

Release fiber at L and pull back to A, place in the conduit from A to L and terminate fiber at L.

Splices/LCP

K: Existing NAP LSM173c-N21
L: Existing LCP LSM173