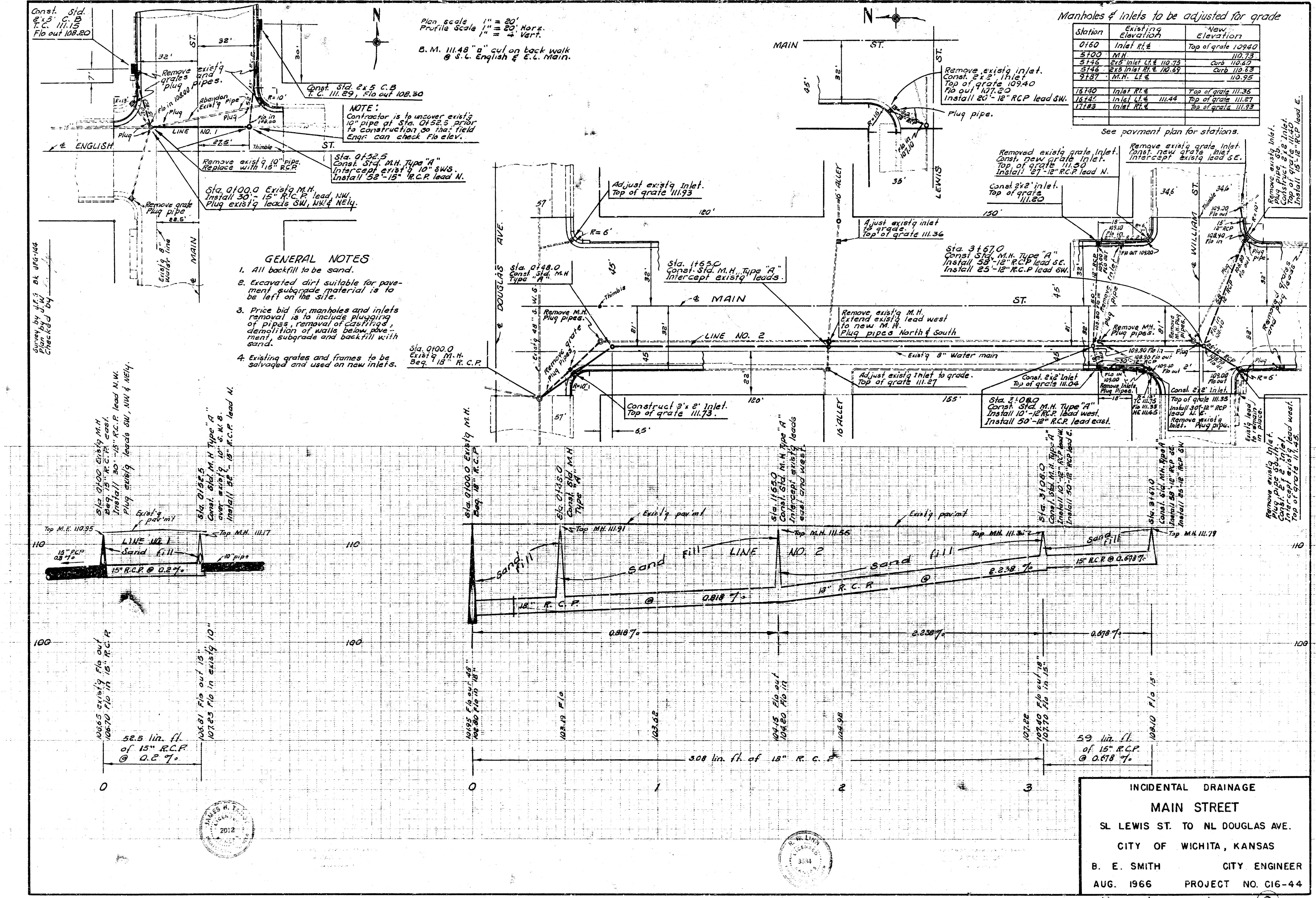

Const. Std. 2'x5' C.B T.C. 111.15 Flo out 108.20
Remove exist'q grates and plug pipes.
Flo in 108.00
Plug
Abandon Exist'q pipe
Plug
Flo in 108.00
Const. Std. 2x5 C.B T.C. 111.29, Flo out 108.30
R=13'
R=10'
32'
32'
30'
7'
ST.
LINE NO. 1
27.5'
Thimble
℄ ENGLISH
ST.
Remove exist'q 10" pipe. Replace with 15" R.C.P.
Sta. 0+52.5 Const. Std. M.H. Type "A" Intercept exist'q 10" SWS. Install 52'-15" R.C.P. lead N.
Sta. 0+00.0 Exist'q M.H. Install 30'-15" R.C.P. lead NW. Plug exist'q leads SW, NW & NEly.
Remove grate Plug pipe
22.5'
Exist'q 8" Water line
℄ MAIN
N
Survey by J.F.G. Bk JFG-144
Plan by J.W.
Checked by
N
MAIN
ST.
LEWIS
ST.
32'
45'
R=15'
12" RCP
35'
Remove exist'q inlet. Const. 2'x2' Inlet Top of grate 109.40 Flo out 107.20 Install 20'-12" RCP lead SW.
Plug pipe.
Flo in 107.10
16' ALLEY
Sta. 0+00.0 Exist'q M.H. Beg. 18" R.C.P.
℄ DOUGLAS AVE.
Exist'q 48" S. W. S.
Sta. 0+48.0 Const. Std. M.H Type "A"
Remove M.H. Plug pipes.
Remove grate Plug pipes
Thimble
Adjust exist'q Inlet. Top of grate 111.93
R=6'
R=10'
57'
57'
120'
45'
32'
21'
32'
45
22'
120'
6.5'
℄ MAIN
LINE NO. 2
Construct 2'x2' Inlet. Top of grate 111.73.
Sta. 1+65.0 Const. Std. M.H. Type "A" Intercept exist'q leads.
Remove exist'q M.H. Extend exist'q lead west to new M.H. Plug pipes North & South
Exist'q 8" Water main
Adjust exist'q inlet to grade. Top of grate 111.36
Adjust exist'q Inlet to grade. Top of grate 111.27
150'
155'
ST.
Const. 2'x2' inlet. Top of grate 111.20
Removed exist'q grate Inlet. Const. new grate Inlet. Top of grate 111.50 Install 27'-12" R.C.P. lead N.
Remove exist'q grate Inlet. Const. new grate Inlet Intercept exist'q lead SE.
Sta. 3+67.0 Const. Std. M.H. Type "A" Install 58'-12" R.C.P lead SE. Install 25'-12" R.C.P lead SW.
Sta. 3+08.0 Const. Std. M.H. Type "A" Install 10'-12" R.C.P. lead west. Install 50'-12" R.C.P. lead east.
Const. 2'x2' Inlet Top of grate 111.04
Remove M.H. Plug pipes.
Remove M.H. Plug pipes.
Remove Inlets. Plug Pipes.
Flo in 109.00
108.80 Flo in
108.90 Flo out
30'-12" RCP
109.10 Flo out
R=13' TC 111.75 Flo 111.35 HE 111.45
Const. 2'x2' Inlet. Top of grate 111.35 Install 30'-12" RCP lead N. E. Remove exist'q Inlet. Plug pipe.
Exist'q lead to remain in place.
109.10 Flo in
27'-12" R.C.P.
Flo out 109.20
12" RCP
109.00 Flo out
50'
108.80 Flo in
Remove inlet Plug pipe
℄ WILLIAM ST.
34.6'
34.6'
Thimble
109.30 Flo out
15' 12" RCP
108.90 Flo in
R=10'
Plug pipe
108.80 Flo out
Plug
58' 12" RCP
Flo in 108.40
25'-12" RCP
108.70 Flo in
109.00 Flo out
R=6'
Plug
Removed grates and plug leads
Remove exist'q Inlet. Plug pipe SS. Construct 2'x2' Inlet. Top of grate 111.40 Install 15'-12" RCP lead E.
Remove exist'q Inlet. Plug pipe South. Const. 2'x2' Inlet. Intercept exist'q lead west. Top of grate 111.45.
18'
18'
32'
45'
21'
32'
32'
2'
Sta. 0+00 Exist'q M.H Beg. 15" R.C.P. east. Install 30'-15" R.C.P. lead N.W. Plug exist'q leads SW, NW & NEly.
Sta. 0+52.5 Const. Std. M.H. Type "A" over exist'q 10" S.W.S. Install 52'-15" R.C.P. lead N.
Top M.H. 110.95
Exist'q pav'm't
Top M.H. 111.17
LINE NO. 1
Sand fill
15" RCP 0.8 %
15" R.C.P. @ 0.2 %
10" pipe
110
100
106.65 exist'q Flo out 106.70 Flo in 15" R.C.P.
106.81 Flo out 15" 107.23 Flo in exist'q 10"
52.5 lin. ft. of 15" R.C.P. @ 0.2 %
0
Sta. 0+00.0 Exist'q M.H. Beg. 18" R.C.P.
Sta. 0+48.0 Const. Std. M.H Type "A"
Sta. 1+65.0 Const. Std. M.H Type "A" Intercept exist'q leads east and west.
Sta. 3+08.0 Const. Std. M.H. Type "A" Install 10'-12" RCP lead W. Install 50-12" RCP lead E.
Sta. 3+67.0 Const. Std. M.H. Type "A" Install 58'-12" RCP SE. Install 25'-12" RCP SW
Exist'q pav'm't
Exist'q pav'm't
Top M.H. 111.91
Top M.H. 111.56
Top M.H. 111.34
Top M.H. 111.79
sand fill
sand fill
LINE NO. 2
sand fill
sand fill
18" R.C.P. @ 0.818 %
18" R.C.P. @ 2.238 %
15" R.C.P. @ 0.678 %
110
0.818 %
2.238 %
0.678 %
100
110
100
101.95 Flo out 48" 102.80 Flo in 18"
103.19 Flo
103.62
104.15 Flo out 104.20 Flo in
104.98
107.22
107.40 Flo out 18" 107.70 Flo in 15"
108.10 Flo 15"
308 lin. ft. of 18" R. C. P.
59 lin. ft. of 15" R.C.P. @ 0.678 %
0
1
2
3

Plan scale 1" = 20'
Profile Scale 1" = 20' Horz.
1" = 4' Vert.

B. M. 111.48 "□" cut on back walk @ S.L. English & E.L. Main.

NOTE: Contractor is to uncover exist'g 10" pipe at Sta. 0+52.5 prior to construction so that field Engr. can check Flo elev.

GENERAL NOTES

1. All backfill to be sand.
2. Excavated dirt suitable for pavement subgrade material is to be left on the site.
3. Price bid for manholes and inlets removal is to include plugging of pipes, removal of castings, demolition of walls below pavement, subgrade and backfill with sand.
4. Existing grates and frames to be salvaged and used on new inlets.

Manholes & Inlets to be adjusted for grade

Station	Existing Elevation	New Elevation
0+60	Inlet Rt.℄	Top of grate 109.40
5+00	M.H.	110.73
5+46	2x5' Inlet Lt.℄ 110.75	Curb 110.60
5+46	2x5 Inlet Rt.℄ 110.69	Curb 110.63
9+87	M.H. Lt.℄	110.95
15+40	Inlet Rt.℄	Top of grate 111.36
16+46	Inlet Lt.℄ 111.44	Top of grate 111.27
17+83	Inlet Rt.℄	Top of grate 111.93

See pavment plan for stations.

INCIDENTAL DRAINAGE
MAIN STREET
SL LEWIS ST. TO NL DOUGLAS AVE.
CITY OF WICHITA, KANSAS
B. E. SMITH CITY ENGINEER
AUG. 1966 PROJECT NO. C16-44

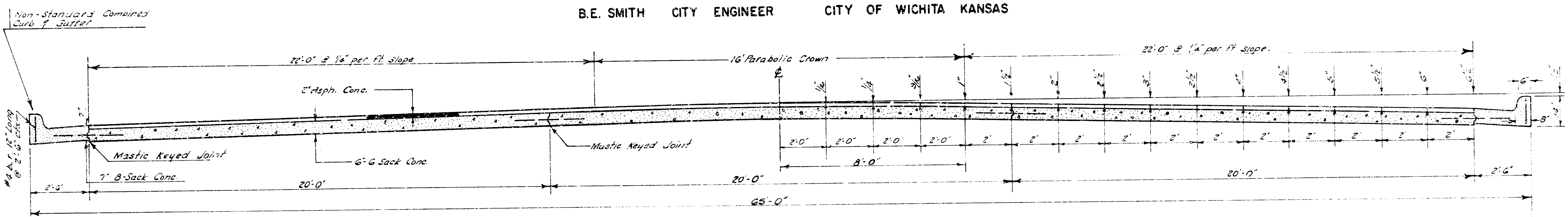
11 1 4 ③

MAIN STREET

FROM S.L. LEWIS TO N.L. DOUGLAS AVE

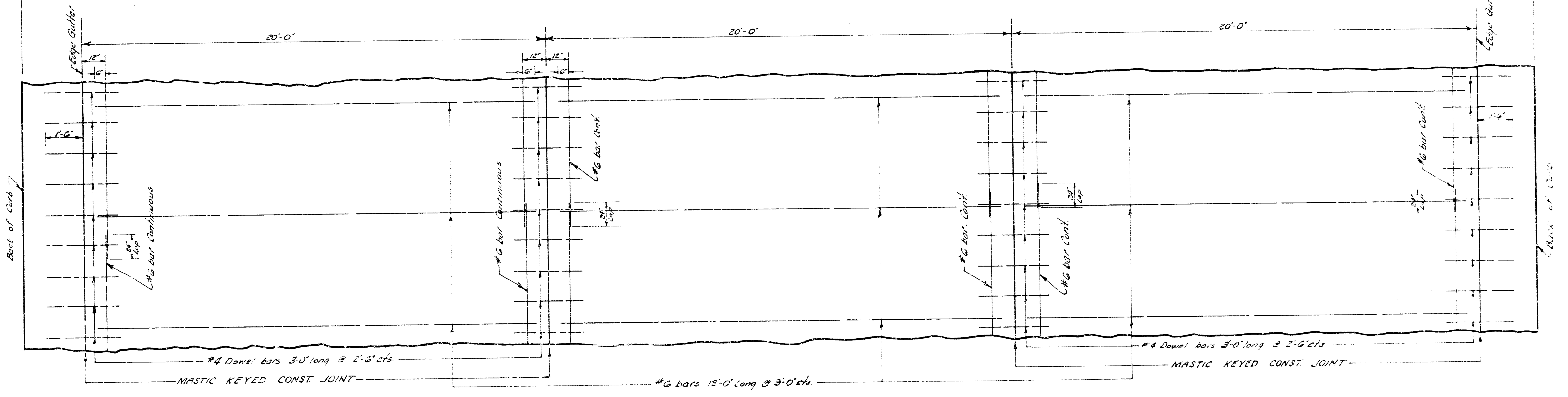
B.E. SMITH CITY ENGINEER CITY OF WICHITA KANSAS

PROJECT NO. C16-44



Non-Standard Combined Curb & Gutter
#4 bar 12" Long @ 2'-6" cts
22'-0" @ 1/4" per ft slope
16' Parabolic Crown
22'-0" @ 1/4" per ft slope.
2" Asph. Conc.
Mastic Keyed Joint
6"-6 Sack Conc.
7" 8-Sack Conc.
Mastic Keyed Joint
℄
1/16"
1/4"
9/16"
1"
1 1/2"
2"
2 1/2"
3"
3 1/2"
4"
4 1/2"
5"
5 1/2"
6"
6 1/2"
6"
8"
2'-0"
2'-0"
2'-0"
2'-0"
2'
8'-0"
2'-6"
20'-0"
20'-0"
20'-0"
2'-6"
65'-0"

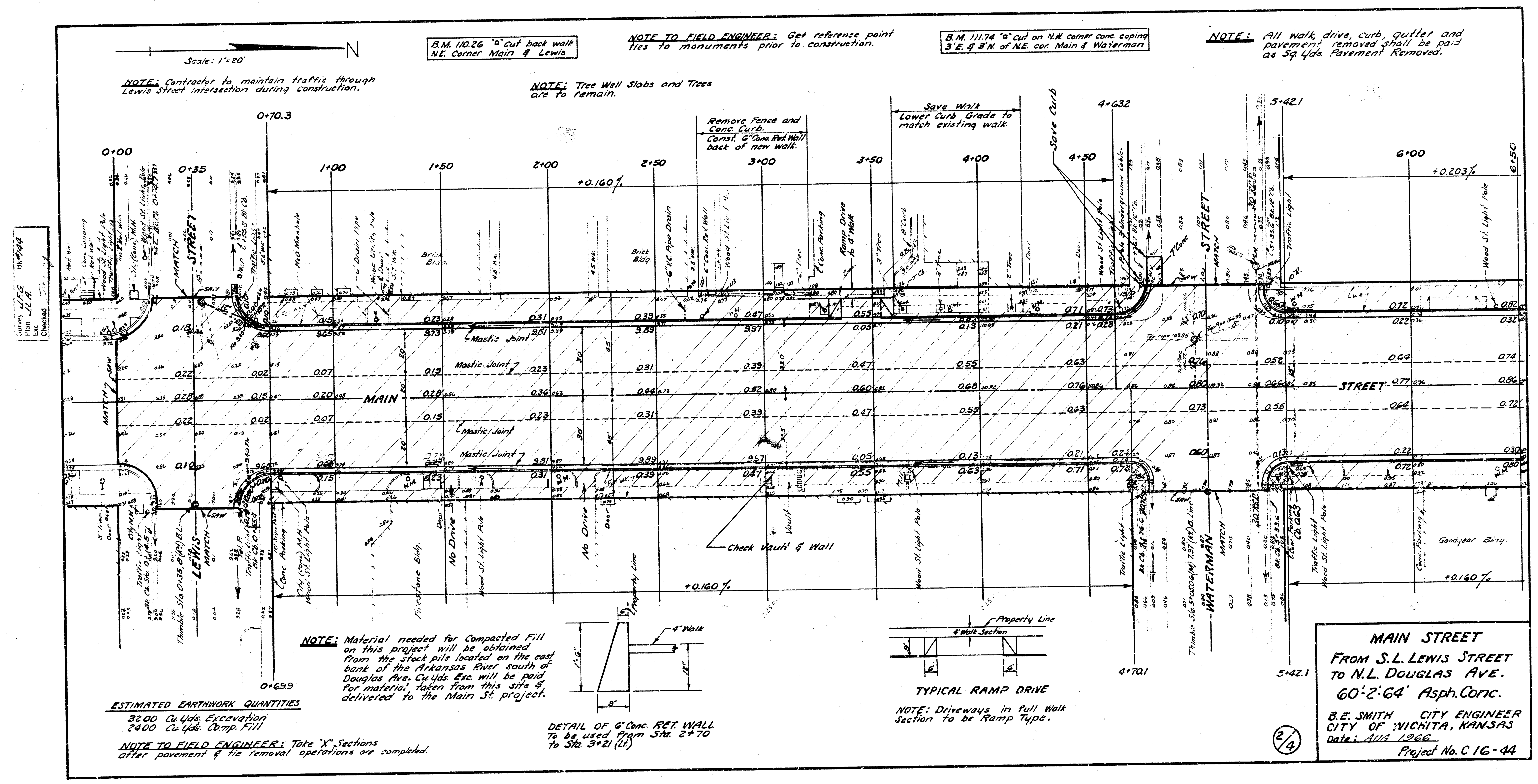
TYPICAL SECTION



Edge Gutter
20'-0"
20'-0"
20'-0"
Edge Gutter
12"
6"
12"
12"
6"
6"
1'-6"
1'-6"
Back of Curb
Back of Curb
#6 bar Continuous
24" Lap
#6 bar Continuous
#6 bar Cont.
34" Lap
#6 bar Cont.
#6 bar Cont.
34" Lap
#6 bar Cont.
24" Lap
#4 Dowel bars 3'-0" long @ 2'-6" cts.
MASTIC KEYED CONST. JOINT
#6 bars 15'-0" long @ 3'-0" cts.
#4 Dowel bars 3'-0" long @ 2'-6" cts.
MASTIC KEYED CONST. JOINT

STEEL PATTERN

NOT TO SCALE



Scale: 1"=20'
N
0+00
0+35
0+70.3
1+00
1+50
2+00
2+50
3+00
3+50
4+00
4+50
4+632
5+42.1
6+00
6+50
0+69.9
4+70.1
5+42.1
+0.160 %
+0.203 %
+0.160 %
+0.160 %
MAIN
STREET
LEWIS STREET
WATERMAN STREET
MATCH
Mastic Joint
Remove Fence and Conc. Curb.
Const. 6" Conc. Ret. Wall back of new walk.
Save Walk
Lower Curb Grade to match existing walk.
Save Curb
Check Vault & Wall
Brick Bldg.
Firestone Bldg.
Goodyear Bldg.
No Drive
Wood St. Light Pole
Traffic Light
Conc. Parking
Ramp Drive to 4' Walk
6" V.C. Pipe Drain
Property Line
4" Walk
1'-6"
12"
6"
9"
6"
4' Walk Section
9'
6'
6'

B.M. 110.26 "□" cut back walk
N.E. Corner Main & Lewis

NOTE TO FIELD ENGINEER: Get reference point ties to monuments prior to construction.

B.M. 111.74 "□" cut on N.W. corner conc. coping
3'E. & 3'N. of N.E. cor. Main & Waterman

NOTE: All walk, drive, curb, gutter and pavement removed shall be paid as Sq. Yds. Pavement Removed.

NOTE: Contractor to maintain traffic through Lewis Street intersection during construction.

NOTE: Tree Well Slabs and Trees are to remain.

NOTE: Material needed for Compacted Fill on this project will be obtained from the stock pile located on the east bank of the Arkansas River south of Douglas Ave. Cu. Yds. Exc. will be paid for material taken from this site & delivered to the Main St. project.

DETAIL OF 6" Conc. RET. WALL
To be used from Sta. 2+70
to Sta. 3+21 (Lt.)

TYPICAL RAMP DRIVE

NOTE: Driveways in full Walk Section to be Ramp Type.

ESTIMATED EARTHWORK QUANTITIES

3200 Cu. Yds. Excavation
2400 Cu. Yds. Comp. Fill

NOTE TO FIELD ENGINEER: Take "X" Sections after pavement & tie removal operations are completed.

MAIN STREET

FROM S.L. LEWIS STREET
TO N.L. DOUGLAS AVE.
60'-2'-64' Asph. Conc.

B.E. SMITH CITY ENGINEER
CITY OF WICHITA, KANSAS
Date: AUG 1966

Project No. C 16-44

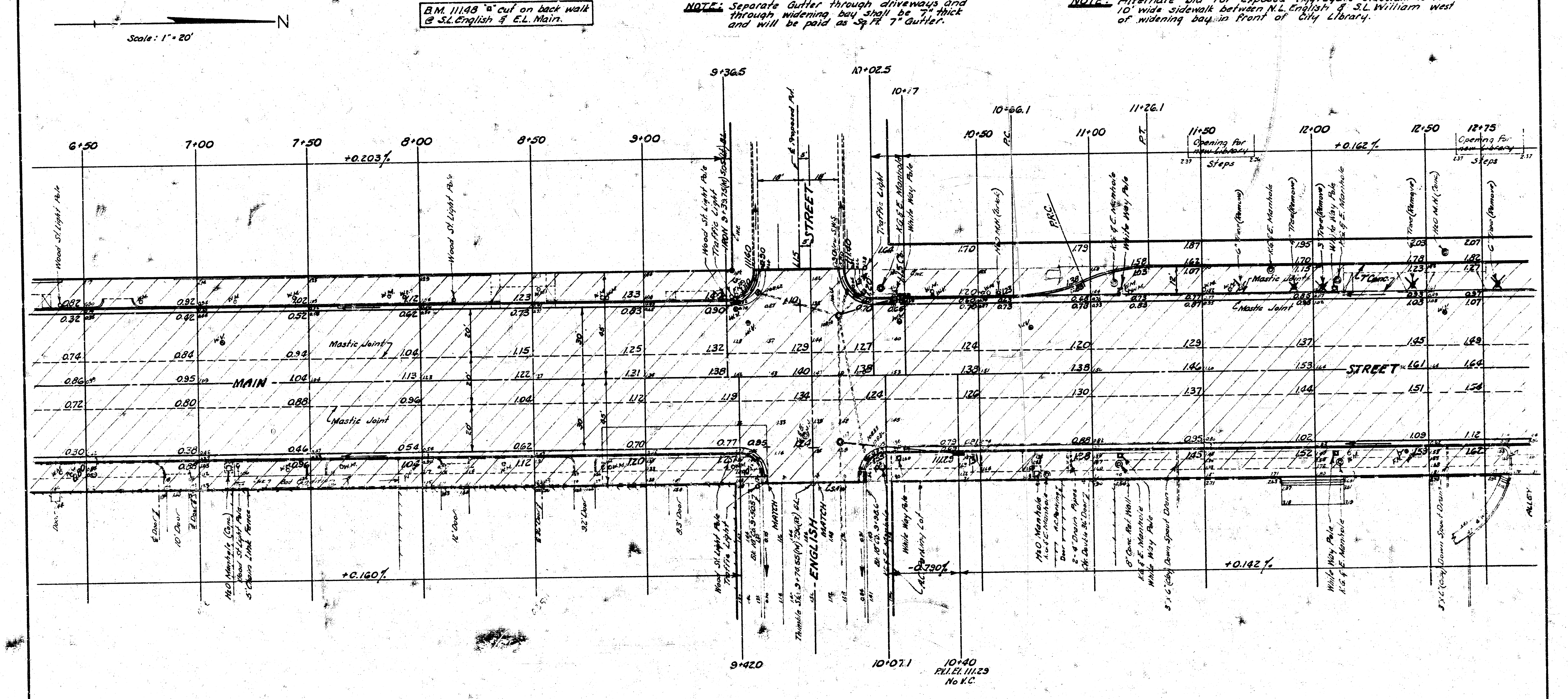
2/4

Scale: 1" = 20'

B.M. 11148 "□" cut on back walk
@ S.L. English & E.L. Main.

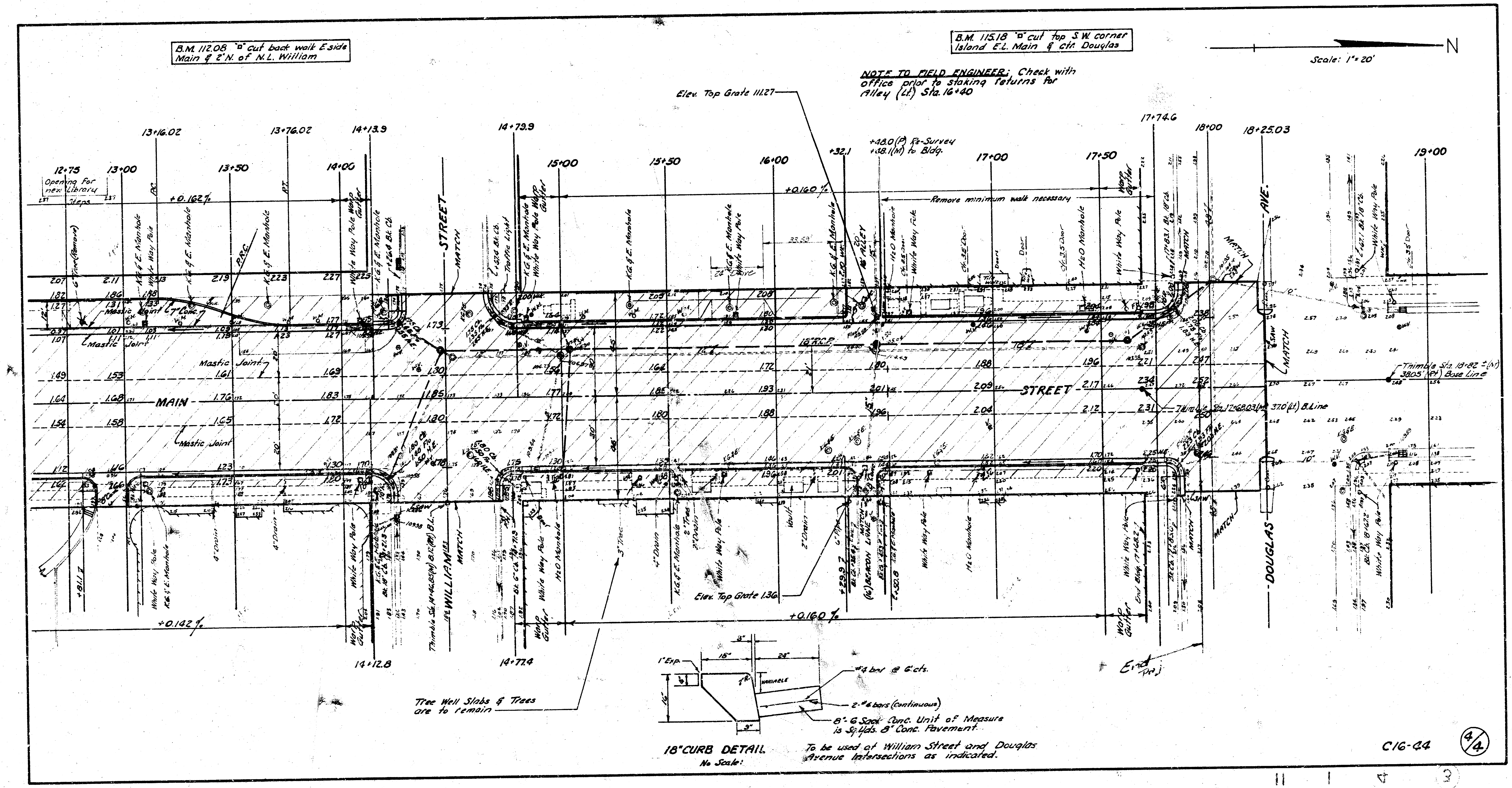
NOTE: Separate Gutter through driveways and through widening bay shall be 7" thick and will be paid as Sq.Ft. 7" Gutter.

NOTE: Alternate bid for Exposed Aggregate Sidewalk is for 10' wide sidewalk between N.L. English & S.L. William west of widening bay in front of City Library.


N
6+50
7+00
7+50
8+00
8+50
9+00
9+36.5
10+02.5
10+17
10+50
10+66.1
11+00
11+26.1
11+50
12+00
12+50
12+75
+0.203%
+0.162%
+0.160%
+0.142%
MAIN
STREET
ENGLISH
STREET
Mastic Joint
Wood St. Light Pole
Traffic Light
White Way Pole
Opening for new Library Steps
MATCH
ALLEY
9+42.0
10+07.1
10+40
P.I. El. 111.23
No V.C.

C16-44

3/4


B.M. 112.08 "□" cut back walk E.side Main & 2' N. of N.L. William
B.M. 115.18 "□" cut top S.W. corner Island E.L. Main & ctr. Douglas
NOTE TO FIELD ENGINEER: Check with office prior to staking returns for Alley (Lt.) Sta. 16+40
Scale: 1" = 20'
N
Elev. Top Grate 111.27
+48.0(P) Re-Survey
+48.1(M) to Bldg.
12+75
13+00
13+16.02
13+50
13+76.02
14+00
14+13.9
14+79.9
15+00
15+50
16+00
+32.1
17+00
17+50
17+74.6
18+00
18+25.03
19+00
Opening for new Library Steps
+0.162%
+0.160%
+0.142%
P.C.
P.T.
P.R.C.
K.G.&E. Manhole
White Way Pole
Warp Gutter
+26.4 Bk. Cb.
+57.4 Bk. Cb.
Traffic Light
Drive
33.53'
20' ALLEY
H2O Manhole
Remove minimum walk necessary
Door
Doors
Tile Walk
17+83.1 Bk. 18" Cb.
MATCH
+67.1 Bk. 18" Cb.
Mastic Joint
7" Conc.
6" Tree (Remove)
MAIN
STREET
18" R.C.P.
SAW
AVE.
DOUGLAS
WILLIAM
Thimble Sta. 18+82 ±(M) 3805' (Rt.) Base Line
B. Line
4" Drain
3" Tree
2" Drain
Vault
Elev. Top Grate 1.36
+29.9
+30.8
BEACON LINE
14+12.8
14+77.4
End Proj
Tree Well Slabs & Trees are to remain
1" Exp.
15"
3"
24"
16"
6"
9"
VARIABLE
#4 bar @ 6" cts.
2-#6 bars (continuous)
8"-6 Sack Conc. Unit of Measure is Sq.Yds. 8" Conc. Pavement.
18" CURB DETAIL
No Scale:
To be used at William Street and Douglas Avenue Intersections as indicated.
C16-G4
4/4

11 1 4 3