GENERAL NOTES

Contractor will be required to provide a minimum advance notice of twenty-four (24) hours to utility companies prior to starting any excavation as follows:

Kansas One-Call	687-2470

The Contractor must notify the following in case of an emergency.

Cablevision	262-4270 or 263-2061
K.G.&E. Gas	383-8650
K.G.&E. Electric	383-8600
People's Natural Gas Company	942-8350 or 263-8161
Southwestern Bell Telephone Company	1-571-2611
City of Wichita Water Department	268-4908
City of Wichita Sewer Maintenance	268-4071

The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

Rubbie from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved.

All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps permitting regulations. Any material buried or stockpiled beyond approved of Engineers construction limits would require additional archeological investigations unless buried in a previously approved borrow location.

The Contractor shall notify pipeline companies at least 24 hours in advance of any work being performed across and/or adjacent to pipelines.

Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

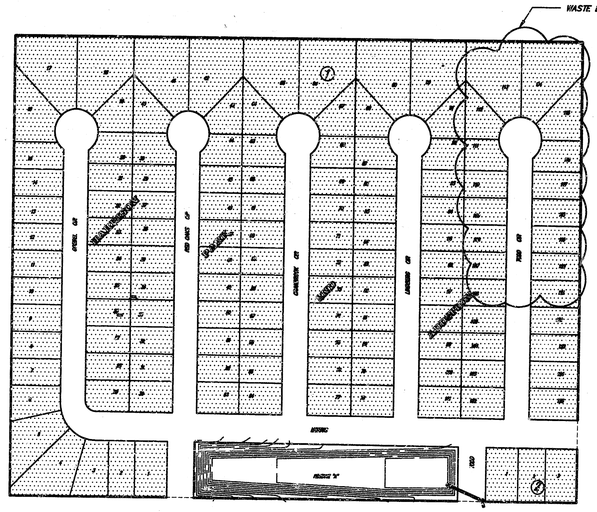
Limits of earthwork shall match existing ground elevations at the right-of-way line unless otherwise noted on the plans with a new finished grade elevation. When a new finished grade elevation is shown, the earthwork shall extend one foot beyond the right-of-way line and then sloped up or down using permissible slopes to match the existing ground surface.

BM #1 - CHISELED "□" AT WEST CURB TODD ST. AT CENTERLINE TODD CT. EXTENDED APP. 220' SOUTH OF SOUTH LINE HARRISON PARK ADDITION.
ELEV. = 1345.80
CITY DATUM = 158.40

BM #2 - CHISELED "□" AT WEST SIDE OF NORTH RETURN AT NORTHWEST CORNER OF LINCOLN AND TODD
ELEV. = 1349.30
CITY DATUM = 161.90

SUMMARY OF EARTHWORK
EXCAVATION = 9761.6 C.Y.
LOOSE FILL = 96.9 C.Y.
COMPACTED FILL = 0.0 C.Y.

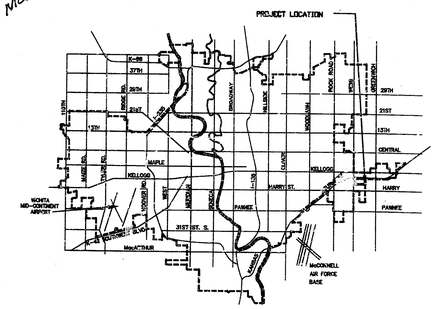
SWS #478
HARRISON PARK 2ND ADDITION
PROJECT NO. 468-82635
INDEX CODE 750877
CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, P.E. - CITY ENGINEER



INDEX

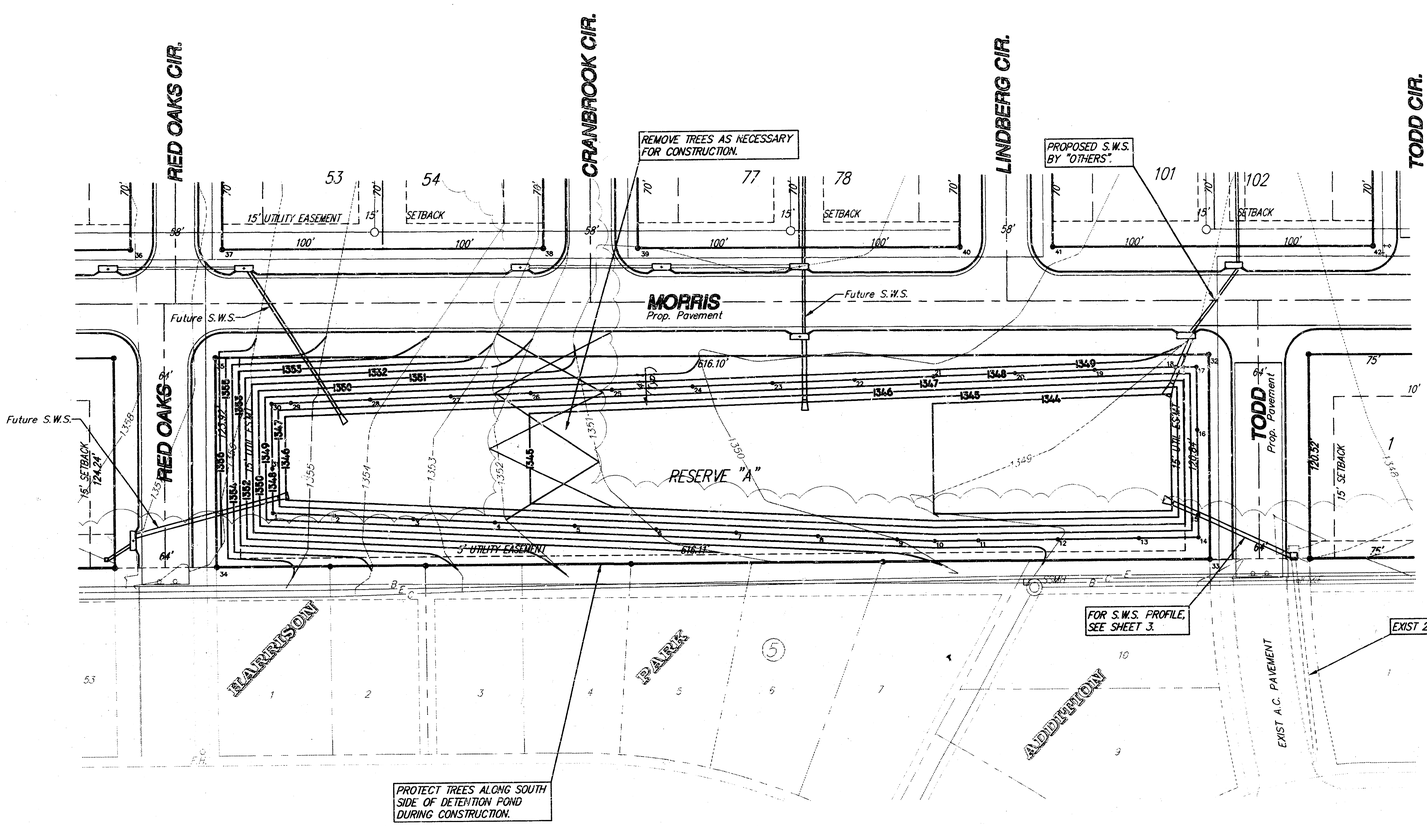
1. TITLE SHEET
2. DETENTION POND PLAN
3. LINE 1 PLAN/PROFILE
4. REINFORCED MANHOLE DETAILS
5-8. CROSS SECTIONS

BOOKED
2-11-98
D-380
MCG





SRB 924 NORTH MAIN WICHITA, KANSAS 67203 316-264-8008 FAX 264-4621
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING



Bench Mark

BM #1 – CHISELED "□" AT WEST CURB TODD ST. AT CENTERLINE TODD CT. EXTENDED APP. 220' SOUTH OF SOUTH LINE HARRISON PARK ADDITION.
ELEV. = 1345.80
CITY DATUM = 158.40

BM #2 – CHISELED "□" AT WEST SIDE OF NORTH RETURN AT NORTHWEST CORNER OF LINCOLN AND TODD
ELEV. = 1348.30
CITY DATUM = 161.90

Pond Coordinate Table

Point No.	Northing	Easting
1	20032.6586	19138.7019
2	20030.7873	19176.6763
3	20028.3265	19226.6157
4	20025.8657	19276.5551
5	20023.4049	19326.4945
6	20020.9441	19376.4339
7	20018.4832	19426.3733
8	20016.0224	19476.3127
9	20013.5616	19526.2521
10	20012.4004	19549.8179
11	20012.5323	19576.2232
12	20012.7823	19626.2226
13	20013.0322	19676.2220
14	20013.2150	19712.8004
15	20026.6361	19712.8004
16	20076.6361	19712.8004
17	20113.9546	19712.8004
18	20113.9546	19700.1189
19	20112.6825	19650.1380
20	20111.1823	19600.1605
21	20109.6821	19550.1830
22	20108.1819	19500.2056
23	20106.6817	19450.2281
24	20105.1814	19400.2506
25	20103.6812	19350.2731
26	20102.1810	19300.2956
27	20100.6808	19250.3181
28	20099.1806	19200.3406
29	20097.6803	19150.3631
30	20097.3303	19138.7019
31	20058.9968	19138.7019
32	20121.1834	19720.4123
33	20000.3214	19719.8631
34	20001.0139	19103.5630
35	20124.9328	19104.3216
36	20189.2609	19051.1527
37	20188.9019	19109.1541
38	20188.4321	19309.1530
39	20187.3202	19367.1432
40	20186.1041	19567.1423
41	20185.7436	19825.1434
42	20184.5214	19825.1324

POND INFORMATION:
FLOW OUT 27" R.C.P. = 1343.43
BOTTOM SLOPE = 0.40%
SIDE SLOPES = 4:1
100 YEAR W.S. = 1350.00

CONSTRUCTION NOTES

NOTE: EXCESS EXCAVATION TO BE WASTED ON SITE. SEE COVER SHEET FOR EXCAVATION WASTE LOCATIONS.

ALL DISTURBED AREAS SHALL BE SEEDED, FERTILIZED AND MULCHED PER CITY SPECIFICATIONS.

HARRISON PARK 2ND ADDITION
SWS #478
WICHITA, KANSAS

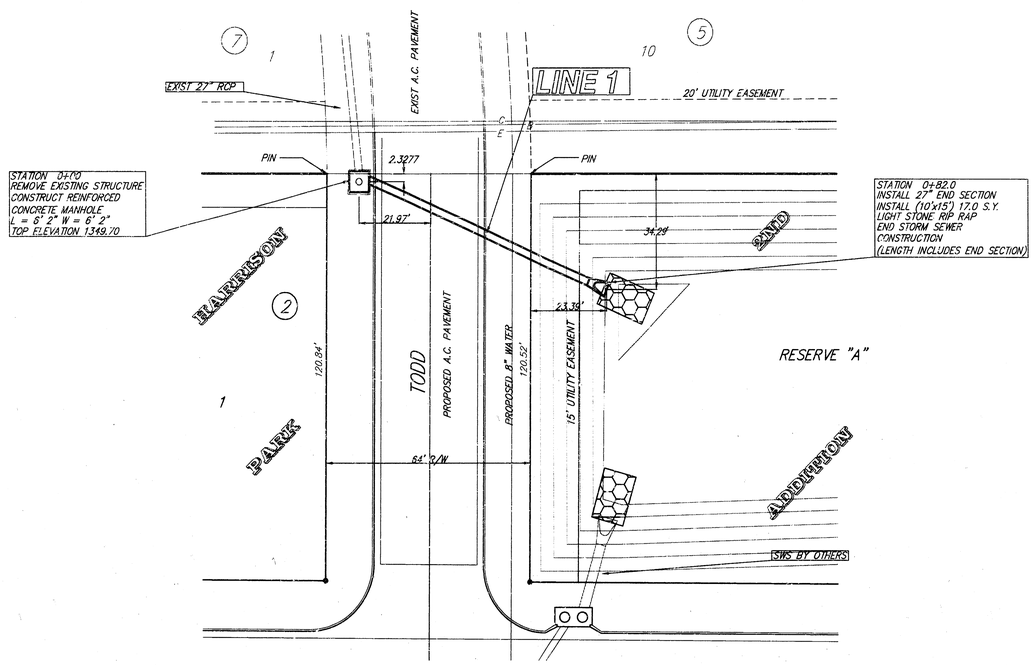
SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
316-264-8008
FAX 264-4621
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

PROJECT NUMBER: 468-82635

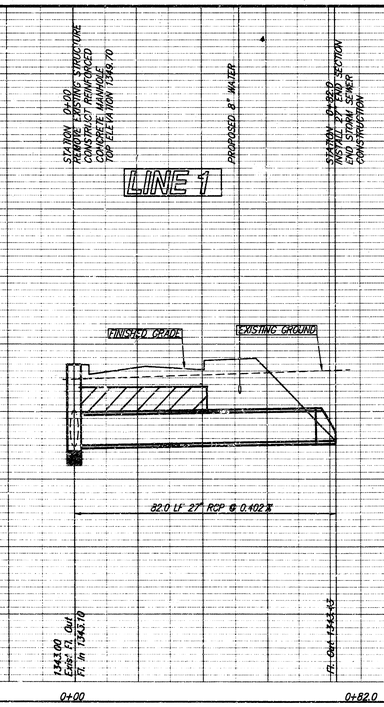
DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
C.M.B.	A.M.L./J.L.			Sept. 11, 1998	

DWG. TITLE: Pond Plan

BOOK 258 423P
SHEET 2 OF 8



SCALE: 1" = 20' PLAN
1"= 5' PROFILE (VERTICAL)



SWS #478 - LINE 1
HARRISON PARK 2ND ADDITION
WICHITA, KS

SRB 924 NORTH MAIN WICHITA, KANSAS 67203 316-264-8008 FAX 264-4621
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

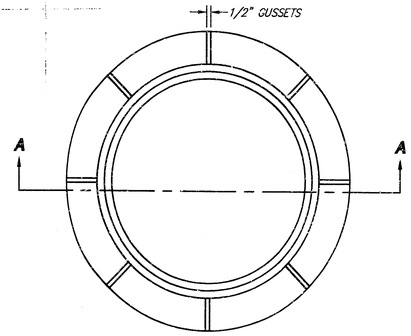
PROJECT NUMBER 468-826.35

DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
CMB	AML			Sept. 11, 1998	

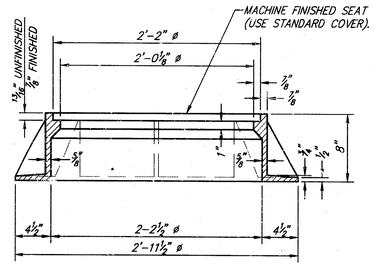
DRAWING FILE 42JE/SWS2

SRB JOB 550

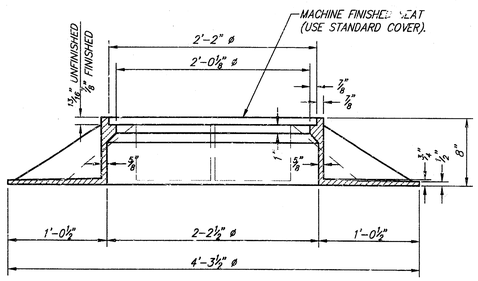
SHEET 3 of 8



PLAN
*STANDARD MANHOLE FRAME SHOWN

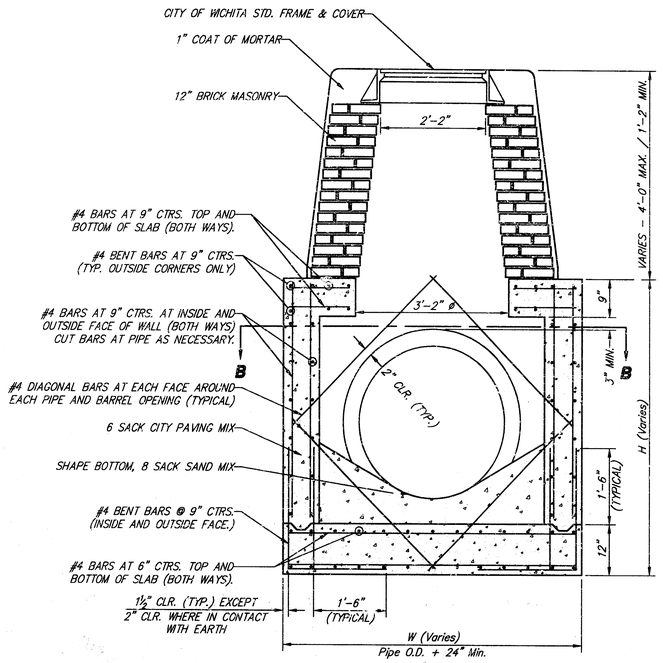


SECTION A-A
STANDARD MANHOLE FRAME
WEIGHT = 240 LBS.

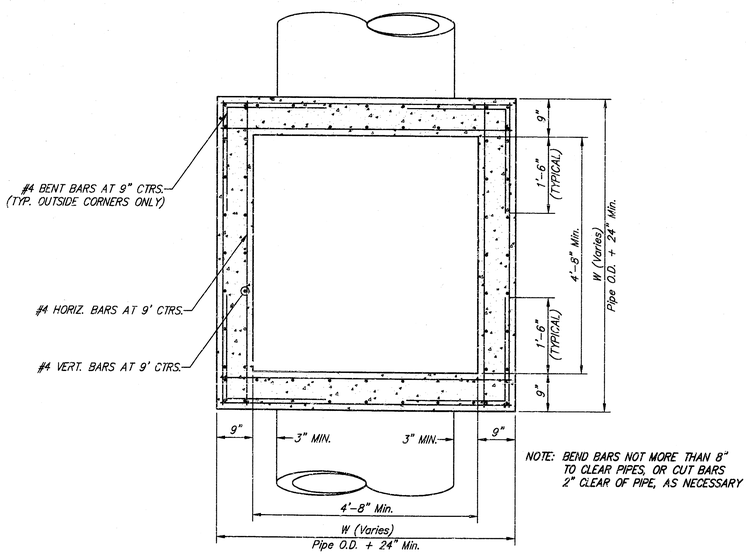


SECTION A-A
WIDE FLANGE MANHOLE FRAME
WEIGHT = 705 LBS.

CITY OF WICHITA STANDARD MANHOLE FRAME DETAILS

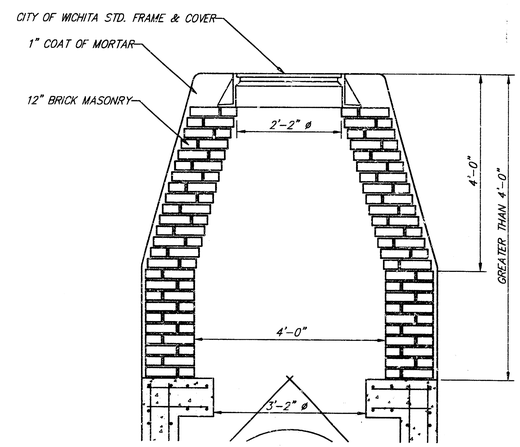


REINFORCED CONCRETE MANHOLE
STACK HEIGHT 2'-4" TO 4'-0"

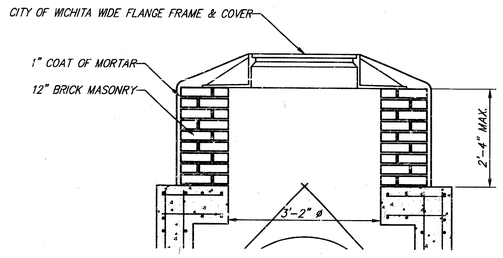


NOTE: BEND BARS NOT MORE THAN 8" TO CLEAR PIPES, OR CUT BARS 2" CLEAR OF PIPE, AS NECESSARY

SECTION B-B



STACK HEIGHT GREATER THAN 4'-0"



STACK HEIGHT LESS THAN 2'-4"

GENERAL NOTES:

1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE WALLS AND BASES SHALL CONFORM TO THE REQUIREMENTS FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS, USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
2. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF-CLEANING, USING 8 SACK SAND MIX CONCRETE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS, SLOPED TOWARD THE FLOW CHANNELS.
3. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
4. THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF MANHOLE WALL.

REINFORCED CONCRETE MANHOLE
WICHITA, KANSAS

SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
316-264-8008
FAX 264-4621
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

PROJECT NUMBER
468-82635

DESIGN	DRAWN	UTILITY	REVIEW	DATE	REVISED
CWB	AML	Utility		Sept. 11, 1998	

DWG FILE: 5030

SHEET 4 OF 8

1345

24.00'

EXC= 636.4
LF = .0
CF = .0
MF = .0

0+74

C= 723.0 F= 0.0

1345

10.00'

EXC= 264.5
LF = .0
CF = .0
MF = .0

0+50

C= 709.0 F=0.0

1350

12.00'

EXC= 282.5
LF = .0
CF = .0
MF = .0

0+40

C= 719.5 F= 0.0

1350

28.00'

EXC= 336.7
LF = .0
CF = .0
MF = .0

0+28

C= 551.8 F= 0.0

1355

0+00

C= 97.5 F= 0.0

℄

PROJECT TOTAL		
EXCAVATION	=	9761.6 C.Y.
LOOSE FILL	=	96.9 C.Y.
COMPACTED FILL	=	0.0 C.Y.

SHEET TOTAL		
EXCAVATION	=	1520.1 C.Y.
LOOSE FILL	=	0.0 C.Y.
COMPACTED FILL	=	0.0 C.Y.

STA 0+00
TO 0+74

℄

1345

3+00

C= 353.2 F= 3.1

50.00'

EXC= 664.6
LF = 2.9
CF = .0
MF = .0

1345

2+50

C= 363.9 F= 0.0

50.00'

EXC= 769.2
LF = .0
CF = .0
MF = .0

1345

2+00

C= 466.8 F= 0.0

50.00'

EXC= 955.9
LF = .0
CF = .0
MF = .0

1345

1+50

C= 565.6 F= 0.0

50.00'

EXC= 1130.1
LF = .0
CF = .0
MF = .0

1345

1+00

C= 654.9 F= 0.0

26.00'

EXC= 663.4
LF = .0
CF = .0
MF = .0

SHEET TOTAL

EXCAVATION	=	4182.6 C.Y.
LOOSE FILL	=	0.0 C.Y.
COMPACTED FILL	=	0.0 C.Y.

STA 1+00
TO 3+00

℄

1345

5+00

C= 351.4 F= 3.9

50.00'

EXC= 660.3
LF = 6.2
CF = .0
MF = .0

1345

4+50

C= 361.7 F= 2.8

50.00'

EXC= 686.1
LF = 4.9
CF = .0
MF = .0

1345

4+00

C= 379.3 F= 2.5

50.00'

EXC= 721.4
LF = 4.5
CF = .0
MF = .0

1345

3+50

C= 399.8 F= 2.4

24.00'

EXC= 355.8
LF = 1.1
CF = .0
MF = .0

1345

3+26

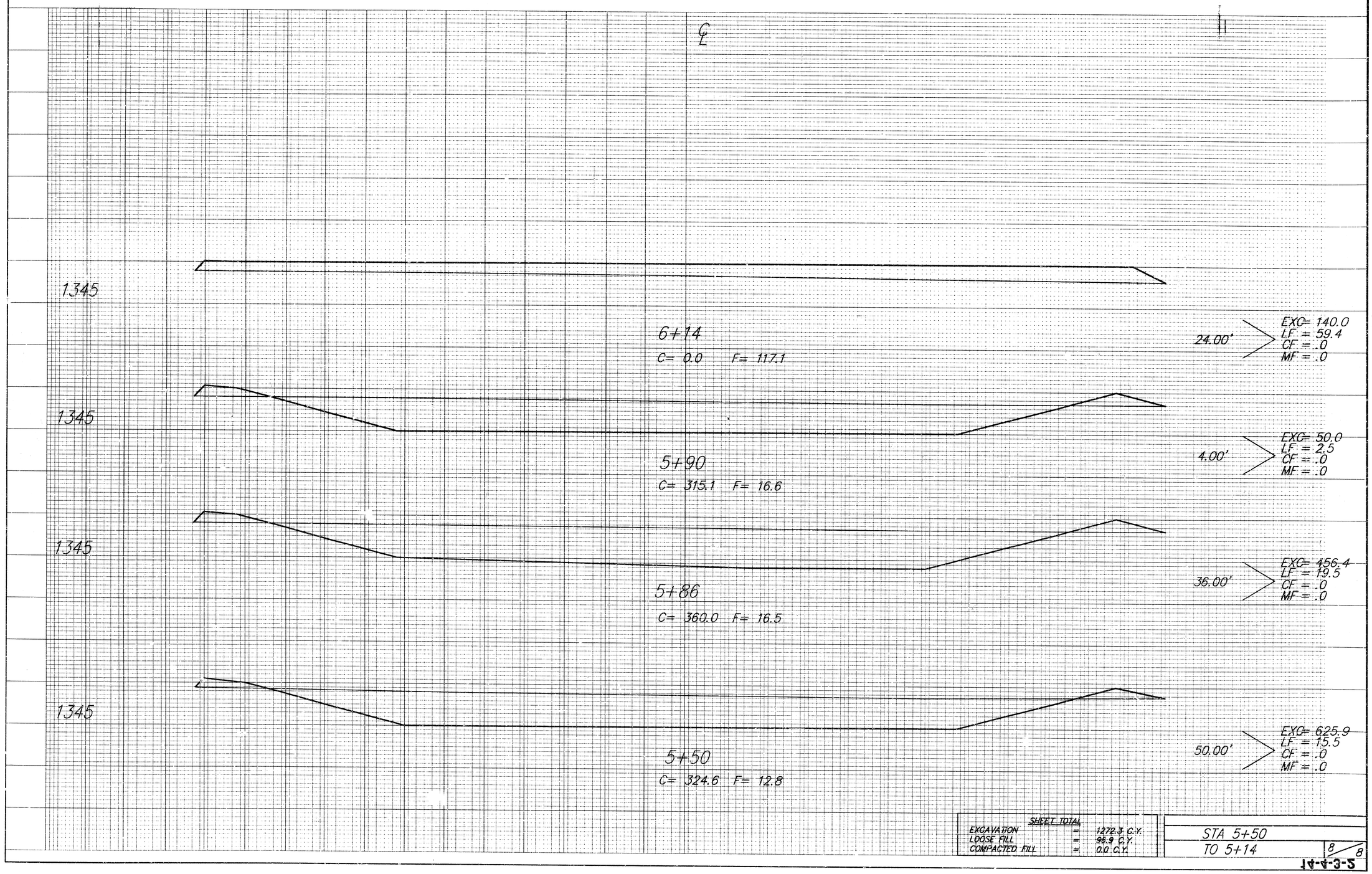
C= 400.7 F= 0.0

26.00'

EXC= 363.0
LF = 1.5
CF = .0
MF = .0

SHEET TOTAL		
EXCAVATION	=	2786.6 C.Y.
LOOSE FILL	=	18.2 C.Y.
COMPACTED FILL	=	0.0 C.Y.

STA 3+26
TO 5+00



SHEET TOTAL		
EXCAVATION	=	1272.3 C.Y.
LOOSE FILL	=	96.9 C.Y.
COMPACTED FILL	=	0.0 C.Y.

STA 5+50
TO 5+14

8/8

14-4-3-5