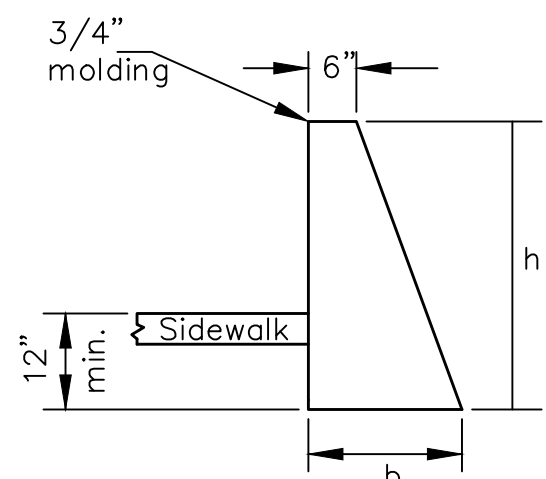


SIDEWALK WITH 9" MONOLITHIC EDGE CURB

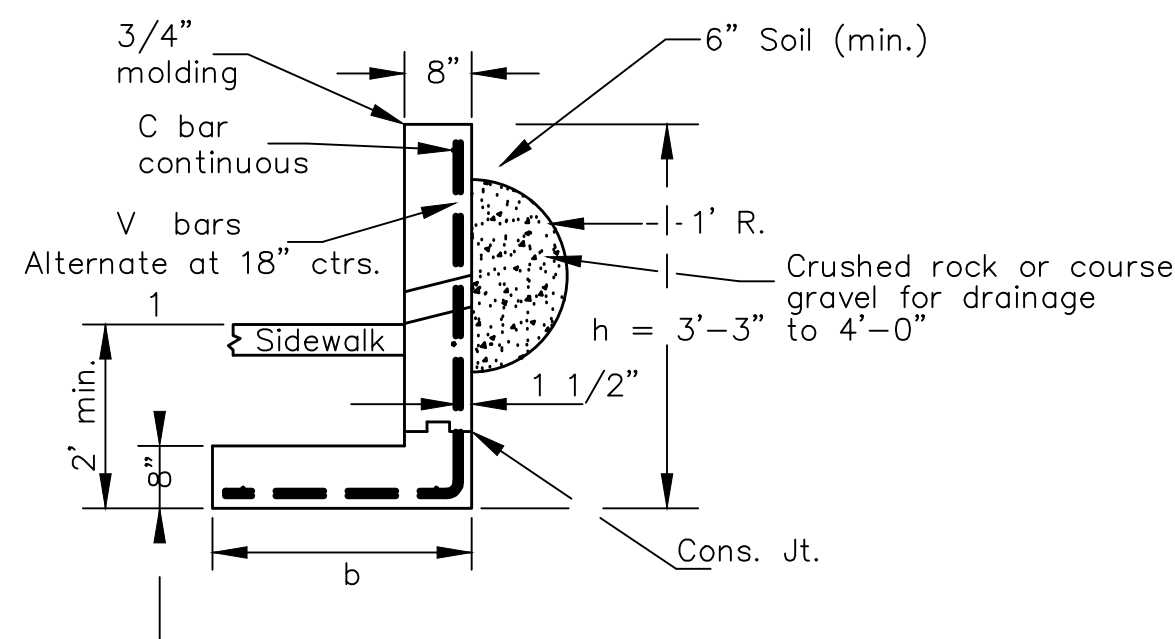
NOTES:

- Expansion (isolation) joints shall be constructed a maximum of 300' apart and at all PIs, PCs, and ends of returns.
- Contraction joints shall be constructed a minimum of 12' apart.
- All materials, equipment, and labor necessary for the construction of the sidewalk with 9" Monolithic Edge Curb shall be subsidiary to the 4" Concrete Sidewalk bid item.



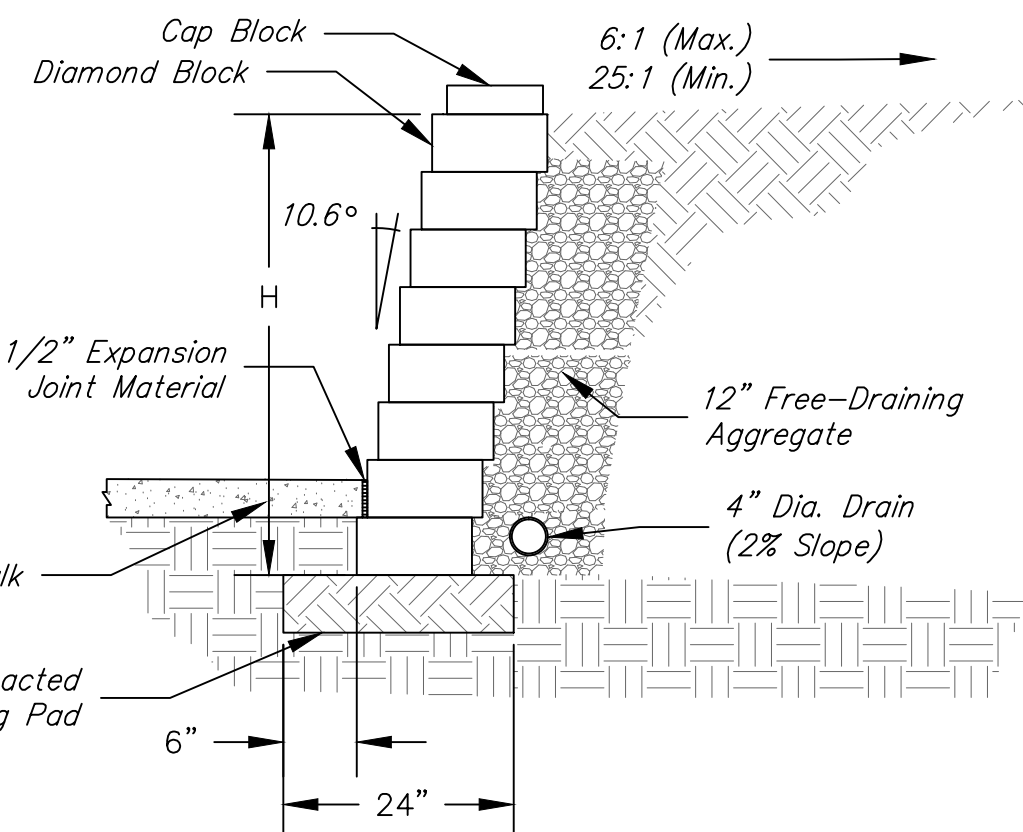
DIMENSIONS		CY Conc.
h	b	Foot
1'-3"	11"	0.033
1'-6"	11"	0.039
1'-9"	11"	0.046
2'-0"	13"	0.059
2'-3"	15"	0.073
2'-6"	17"	0.089
2'-9"	18 1/2"	0.104
3'-0"	20"	0.120
3'-3"	22"	0.140

GRAVITY TYPE
(Concrete)



L-TYPE WALL
(Reinf. Concrete)

SIDEWALK WITH CURB - 135TH CL		
Item No.	Station	Offset
1	111+99	74.8 LT
	111+99	67.5 LT
	111+99	57.1 LT
	112+10	57.1 LT
2	132+78	45.8 LT
	132+88	49.5 LT
	132+98	49.7 LT
	133+00	50.0 LT
	133+00	60.0 LT
	133+00	70.0 LT
	133+00	80.0 LT
	133+00	90.0 LT
3	133+00	94.5 LT
	135+10	43.1 RT
	135+18	44.9 RT
	135+28	45.2 RT
	135+38	45.1 RT
	135+48	45.1 RT
	135+58	45.0 RT
	135+68	45.0 RT
	135+70	45.4 RT
	135+80	49.4 RT



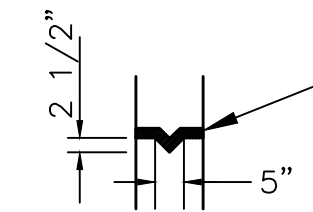
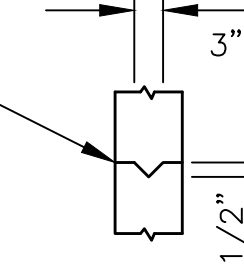
MODULAR BLOCK WALL DETAIL

Notes:

- Modular Block Retaining Walls Shall Be Constructed Using Pavestone Anchor Diamond Straight Face Blocks (Adobe Blend Color) or Approved Equal.
- Contractor to Submit Shop Drawings for Approval Prior to Installation.
- The contractor shall connect the 4" drain tile to the nearest curb inlet underdrain. Materials, excavation, and labor are subsidiary to the bid item Retaining Wall (Block). See stormwater sheets 34-47 for drain tile layout.

Dimensions		Per Lin. Ft. Wall	
h	b	Rein. Stl.	CY Conc.
2'-3"	1'-6"	2.97	0.076
2'-6"	1'-6"	3.09	0.083
2'-9"	1'-6"	4.21	0.089
3'-0"	1'-6"	4.33	0.095
3'-3"	1'-6"	4.45	0.101
3'-6"	2'-0"	4.78	0.12
3'-9"	2'-0"	4.90	0.126
4'-0"	2'-0"	5.00	0.136
4'-6"	2'-6"	9.00	0.157
4'-9"	2'-6"	9.17	0.163
5'-0"	2'-6"	9.35	0.169

Construct Tar Paper & Keyed Construction Joints @ 20' Intervals. Discontinue Reinf. Steel in L-Type Walls.



Expansion Joints @ 100' Maximum Spacing. 1" Premolded Expansion Joint Material. Discontinue Reinf. Steel.

NOTE: ALL excavation for retaining walls shall be included in the bid price per lin. ft. of retaining wall. The weep holes, 4" drain tile, & crushed rock for drainage are subsidiary and shall be included in the bid price per lin. ft. of retaining wall.

REINFORCING STEEL SCHEDULE							
h	bar	size	Cutting Length	Spacing	d	f	Remarks
2'-3"	V ₁	1/2"	3'-0"	18"	1'-11"	1'-2"	L-Shape
	C	1/2"	3 horiz. bars continuous				Straight
2'-6"	V ₁	1/2"	3'-3"	18"	2'-2"	1'-2"	L-Shape
	C	1/2"	3 horiz. bars continuous				Straight
2'-9"	V ₁	1/2"	3'-6"	18"	2'-5"	1'-2"	L-Shape
	C	1/2"	4 horiz. bars continuous				Straight
3'-0"	V ₁	1/2"	3'-9"	18"	2'-8"	1'-2"	L-Shape
	C	1/2"	4 horiz. bars continuous				Straight
3'-3"	V ₁	1/2"	4'-0"	18"	2'-11"	1'-2"	L-Shape
	C	1/2"	4 horiz. bars continuous				Straight
3'-6"	V ₁	1/2"	4'-9"	18"	3'-2"	1'-8"	L-Shape
	C	1/2"	4 horiz. bars continuous				Straight
3'-9"	V ₁	1/2"	5'-0"	18"	3'-5"	1'-8"	L-Shape
	C	1/2"	4 horiz. bars continuous				Straight
4'-0"	V ₁	1/2"	5'-3"	18"	3'-5"	1'-8"	L-Shape
	C	1/2"	4 horiz. bars continuous				Straight
4'-6"	V ₁	1/2"	6'-3"	36"	4'-2"	2'-2"	L-Shape
	V ₂	1/2"	5'-0"	36"	2'-11"	2'-2"	L-Shape
	V ₃	1/2"	3'-6"	24"			Straight
	C	1/2"	8 bars continuous				Straight
4'-9"	V ₁	1/2"	6'-6"	36"	4'-5"	2'-2"	L-Shape
	V ₂	1/2"	5'-0"	36"	2'-11"	2'-2"	L-Shape
	V ₃	1/2"	3'-9"	24"			Straight
	C	1/2"	8 bars continuous				Straight
5'-0"	V ₁	1/2"	6'-9"	36"	4'-8"	2'-2"	L-Shape
	V ₂	1/2"	5'-3"	36"	3'-2"	2'-2"	L-Shape
	V ₃	1/2"	4'-0"	24"			Straight
C	1/2"	8 bars continuous				Straight	

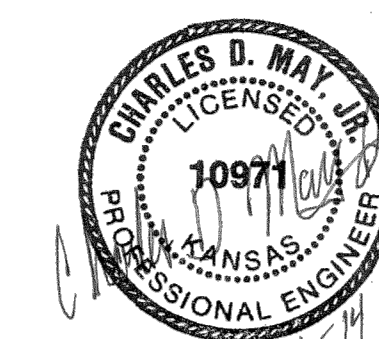
Note: *Alternate V₁ and V₂ at 18" centers

SCHEDULE OF MEASUREMENT FOR RETAINING WALLS

GRAVITY - TYPE			L - TYPE			T - TYPE		
From	To	Average Height	From	To	Average Height	From	To	Average Height
1'-6"	2'-0"	1'-9"	2'-0"	2'-6"	2'-3"	5'-0"	5'-6"	5'-3"
2'-0"	2'-6"	2'-3"	2'-6"	3'-0"	2'-9"	5'-6"	6'-0"	5'-9"
2'-6"	3'-0"	2'-9"	3'-0"	3'-6"	3'-3"	6'-0"	6'-6"	6'-3"
			3'-6"	4'-0"	3'-9"	6'-6"	7'-0"	6'-9"
			4'-0"	4'-6"	4'-3"	7'-0"	7'-6"	7'-3"
			4'-6"	5'-0"	4'-9"	7'-6"	8'-0"	7'-9"

NOTE: The field engineer shall final measure retaining walls prior to backfill operation.

BLOCK RETAINING WALLS - 135TH CL					
Item No.	Station	Offset	Wall Type	Dimensions H (ft)	Top of Wall El.
1	112+67	55.0 LT	BLOCK	2.50	1347.0
	112+77	52.2 LT	BLOCK	2.50	1347.0
	112+87	48.4 LT	BLOCK	2.50	1347.0
	112+97	45.8 LT	BLOCK	2.50	1347.0
	113+07	44.3 LT	BLOCK	2.50	1347.5
	113+17	43.8 LT	BLOCK	2.50	1347.6
	113+27	43.8 LT	BLOCK	2.50	1347.7
	113+37	43.8 LT	BLOCK	2.50	1347.7
	113+47	43.8 LT	BLOCK	2.50	1347.8
	113+57	43.7 LT	BLOCK	2.00	1347.3
	113+67	43.7 LT	BLOCK	1.50	1346.9
	113+77	44.4 LT	BLOCK	1.50	1346.9
	113+87	46.5 LT	BLOCK	1.50	1346.7
	133+81	119.2 LT	BLOCK	1.50	1350.7
133+83	110.0 LT	BLOCK	2.00	1350.7	
133+83	85.0 LT	BLOCK	2.00	1351.0	
133+83	60.0 LT	BLOCK	2.00	1351.2	
133+83	49.5 LT	BLOCK	4.00	1349.9	
133+93	49.5 LT	BLOCK	3.50	1350.4	
134+03	49.5 LT	BLOCK	3.50	1349.7	
134+16	49.5 LT	BLOCK	3.00	1349.9	
134+23	46.0 LT	BLOCK	3.00	1349.9	
134+33	46.0 LT	BLOCK	3.00	1349.6	
134+43	46.0 LT	BLOCK	3.00	1349.0	
134+53	46.0 LT	BLOCK	2.50	1349.3	
134+63	46.0 LT	BLOCK	2.50	1348.6	
134+73	46.0 LT	BLOCK	2.50	1348.7	
134+83	45.6 LT	BLOCK	2.50	1348.8	
134+93	44.8 LT	BLOCK	2.50	1348.8	
135+03	44.0 LT	BLOCK	2.00	1349.1	
135+13	43.3 LT	BLOCK	2.00	1349.2	
135+25	42.4 LT	BLOCK	2.00	1349.3	
135+35	41.7 LT	BLOCK	1.50	1348.8	
140+81	44.8 LT	BLOCK	2.00	1352.9	
140+90	46.2 LT	BLOCK	2.75	1353.3	
141+02	46.2 LT	BLOCK	3.00	1353.6	
141+02	57.6 LT	BLOCK	3.00	1354.2	
141+02	69.0 LT	BLOCK	2.50	1354.5	
141+02	80.3 LT	BLOCK	1.75	1354.4	
141+56	92.6 LT	BLOCK	2.75	1354.6	
141+56	71.0 LT	BLOCK	4.00	1354.4	
141+56	47.4 LT	BLOCK	5.00	1354.0	
141+75	47.4 LT	BLOCK	3.75	1354.0	
142+00	47.4 LT	BLOCK	2.75	1353.1	
142+25	47.4 LT	BLOCK	2.75	1353.3	
142+50	47.4 LT	BLOCK	2.25	1353.2	



CITY OF WICHITA

RETAINING WALL DETAILS



8615 W. Frazier Lane, Suite 2
Wichita, KS 67212
Phone: 316-722-4472

DESIGNED	JWB	DRAWN	JWB	SCALE	SHEET NO.
CHECKED	JWB	DATE	06/14	N/A	26