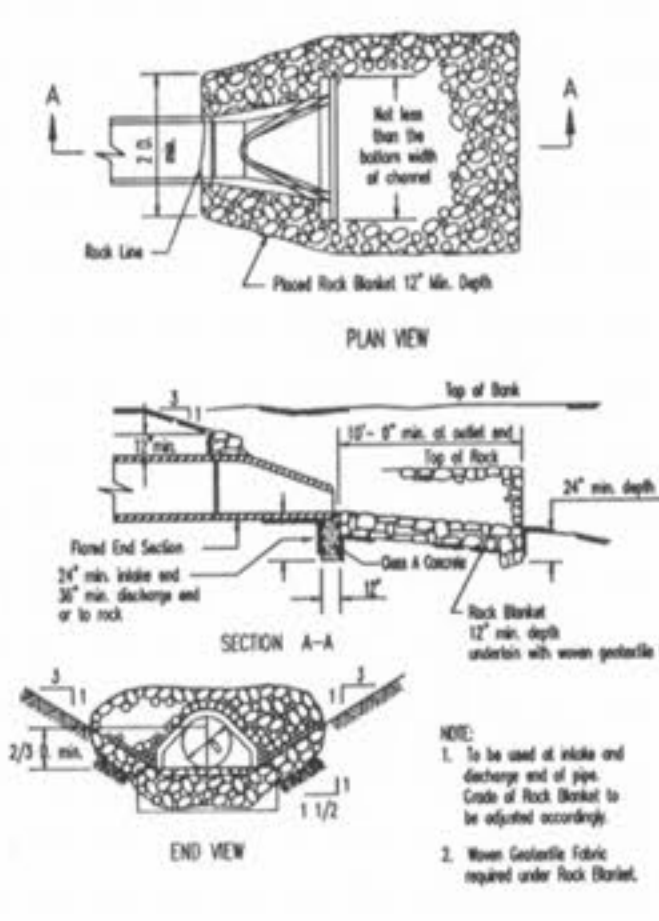


REQUIREMENTS

ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	100	LINEAL FEET
2	ASPHALT GUTTER	100	LINEAL FEET
3	BACKER RODS	100	LINEAL FEET
4	JOINT FILLER	100	LINEAL FEET
5	EXPANSION JOINT MATERIAL	100	LINEAL FEET
6	TEMPORARY BARRICADE UNIT	100	LINEAL FEET
7	TEMPORARY GUARD RAIL	100	LINEAL FEET
8	TEMPORARY EARTH BERM	100	LINEAL FEET
9	TEMPORARY CHAIR	100	LINEAL FEET
10	TEMPORARY SIGN	100	LINEAL FEET
11	TEMPORARY LIGHT	100	LINEAL FEET
12	TEMPORARY FLAG	100	LINEAL FEET
13	TEMPORARY TAPE	100	LINEAL FEET
14	TEMPORARY CHAIN	100	LINEAL FEET
15	TEMPORARY WIRE	100	LINEAL FEET
16	TEMPORARY BARRIER	100	LINEAL FEET
17	TEMPORARY GUARD	100	LINEAL FEET
18	TEMPORARY EARTH	100	LINEAL FEET
19	TEMPORARY CHAIR	100	LINEAL FEET
20	TEMPORARY SIGN	100	LINEAL FEET
21	TEMPORARY LIGHT	100	LINEAL FEET
22	TEMPORARY FLAG	100	LINEAL FEET
23	TEMPORARY TAPE	100	LINEAL FEET
24	TEMPORARY CHAIN	100	LINEAL FEET
25	TEMPORARY WIRE	100	LINEAL FEET
26	TEMPORARY BARRIER	100	LINEAL FEET
27	TEMPORARY GUARD	100	LINEAL FEET
28	TEMPORARY EARTH	100	LINEAL FEET
29	TEMPORARY CHAIR	100	LINEAL FEET
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99	TEMPORARY CHAIR	100	LINEAL FEET
100	TEMPORARY SIGN	100	LINEAL FEET

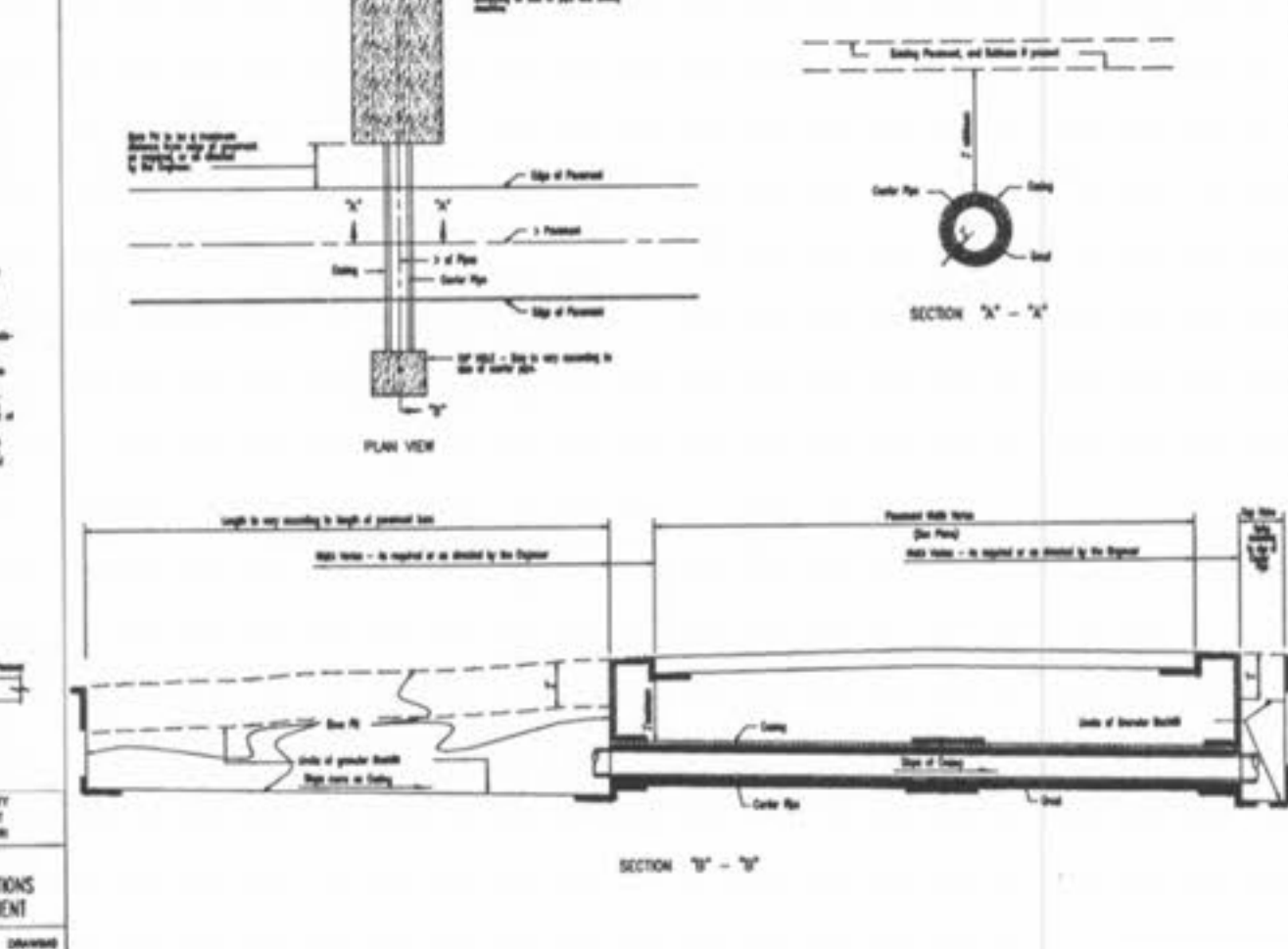
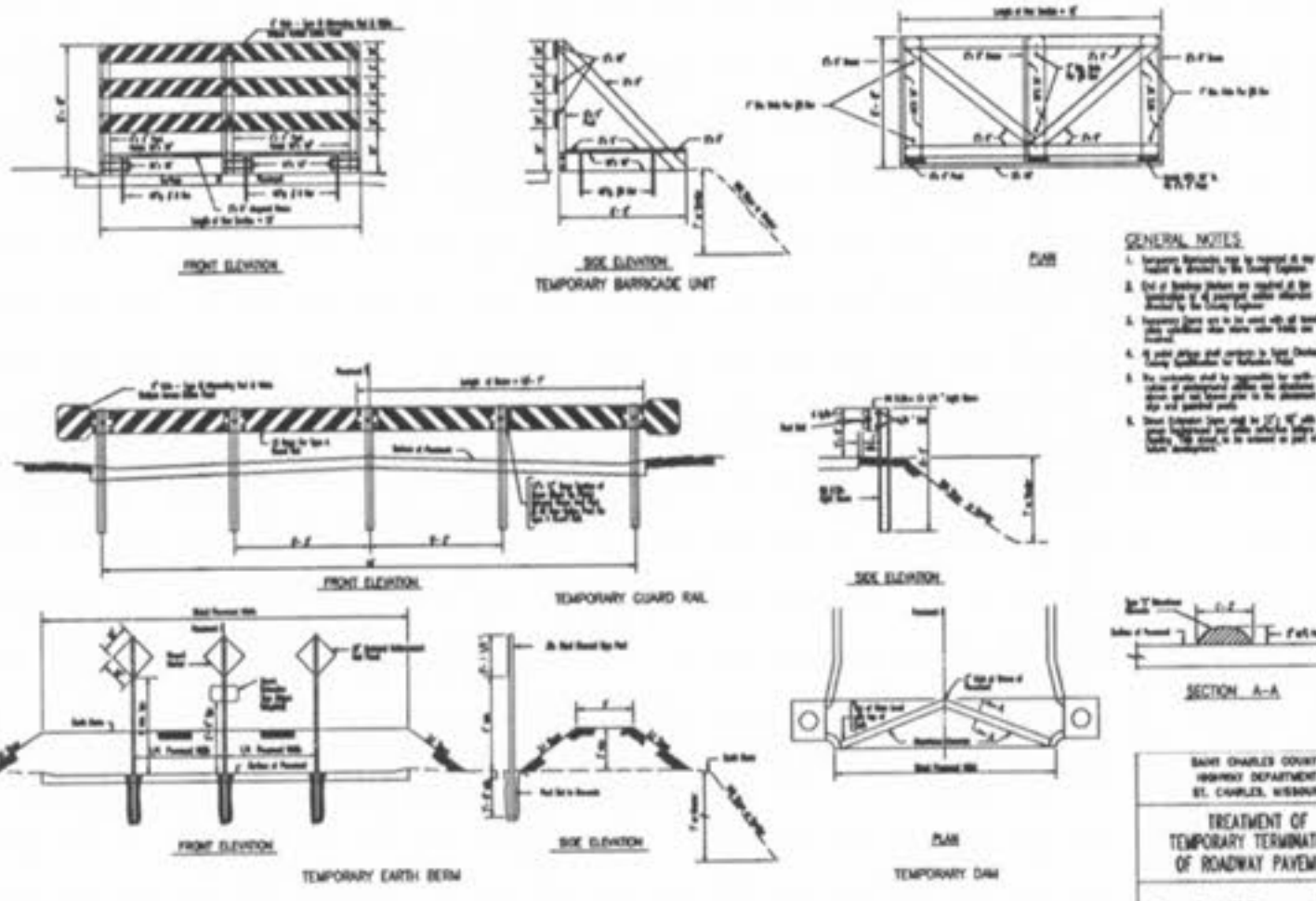
GENERAL NOTES

1. In all cases, unless otherwise specified, the work shall conform to the latest editions of the Missouri State Specifications for Highway Construction.
2. The contractor shall be responsible for obtaining all necessary permits from the appropriate authorities.
3. The contractor shall be responsible for maintaining traffic control during construction.
4. The contractor shall be responsible for protecting existing utilities.
5. The contractor shall be responsible for maintaining the safety of all workers and the public.
6. The contractor shall be responsible for maintaining the quality of the work.
7. The contractor shall be responsible for maintaining the schedule of the project.
8. The contractor shall be responsible for maintaining the budget of the project.
9. The contractor shall be responsible for maintaining the communication with the owner.
10. The contractor shall be responsible for maintaining the records of the project.



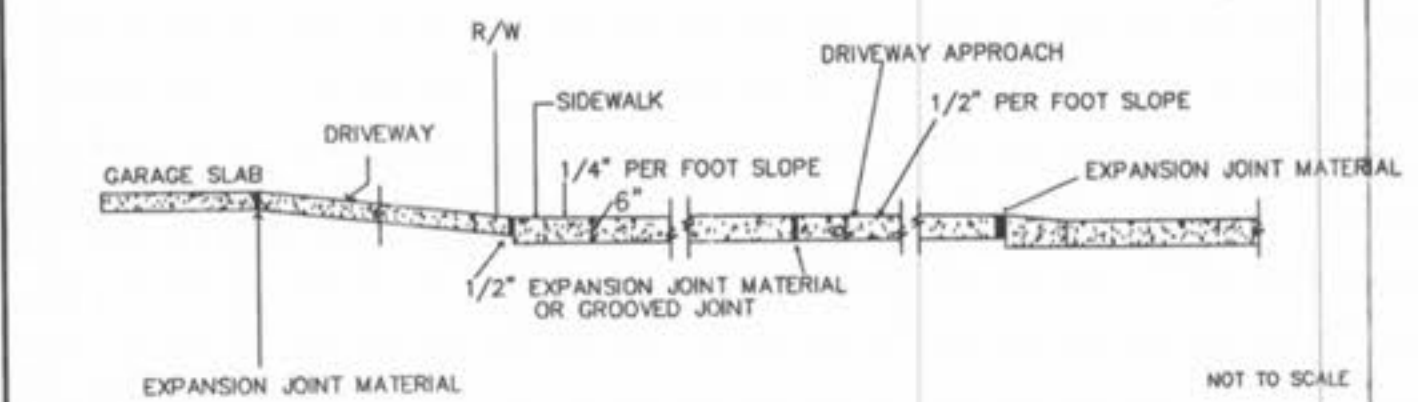
GENERAL NOTES

1. To be used at side and end of curb.
2. When concrete fabric required under back stone.



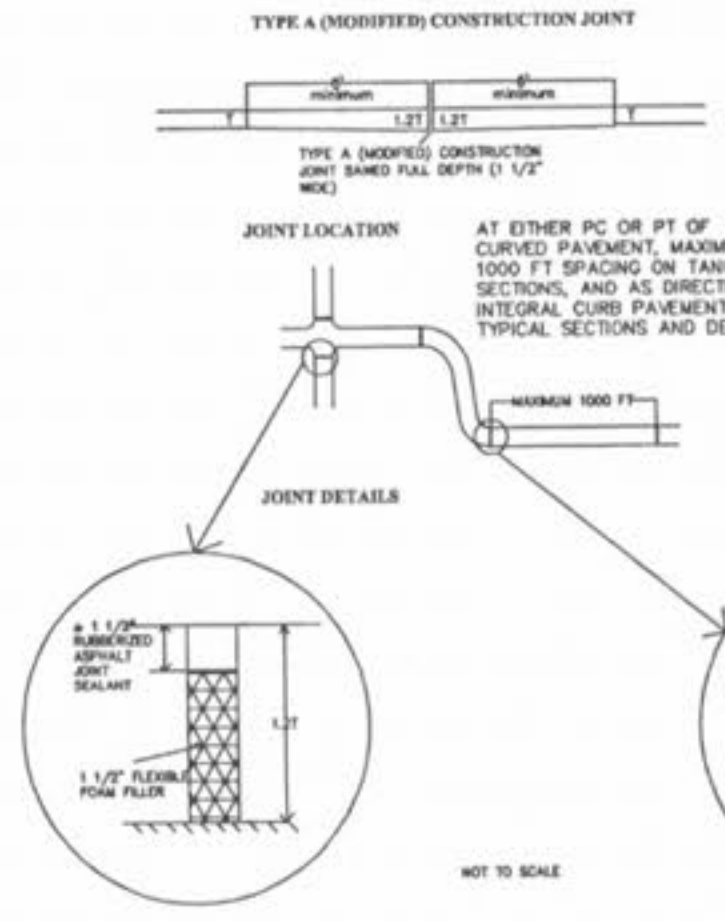
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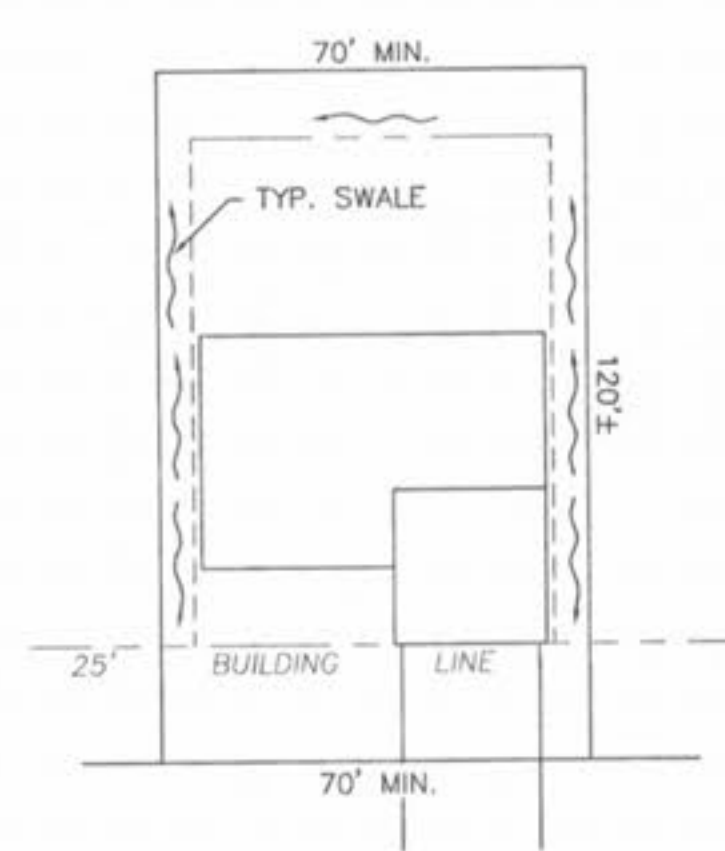
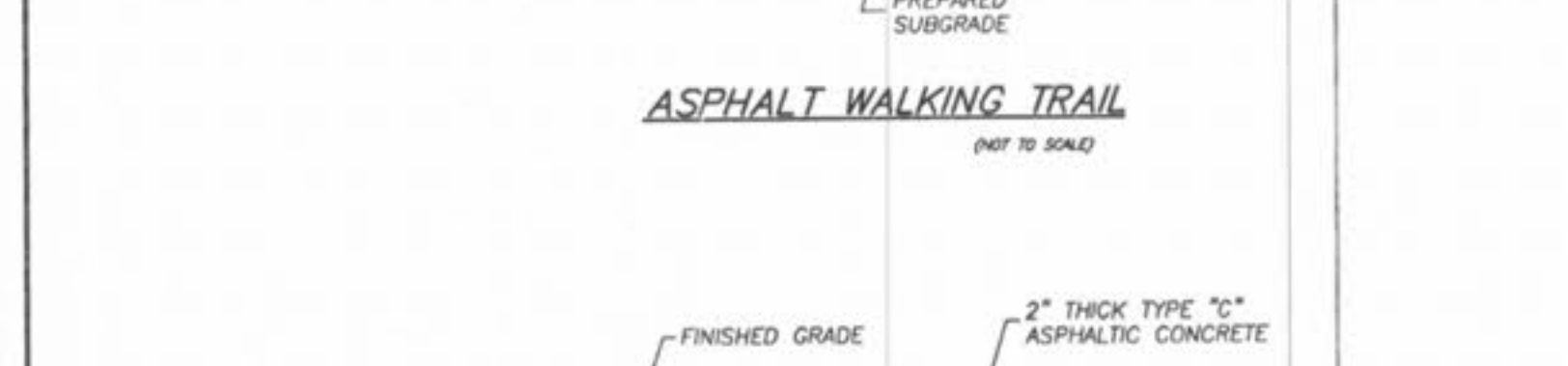
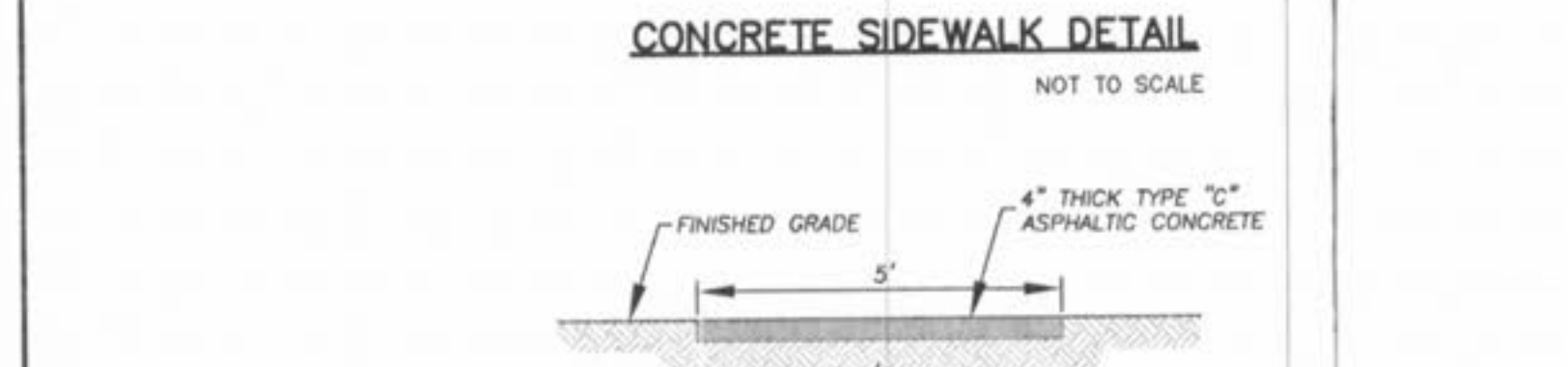
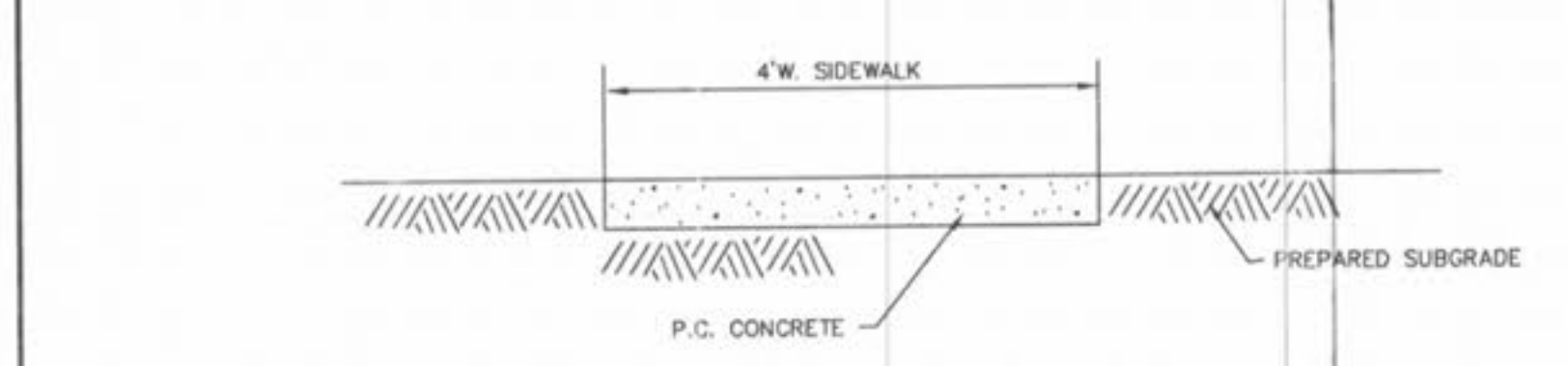
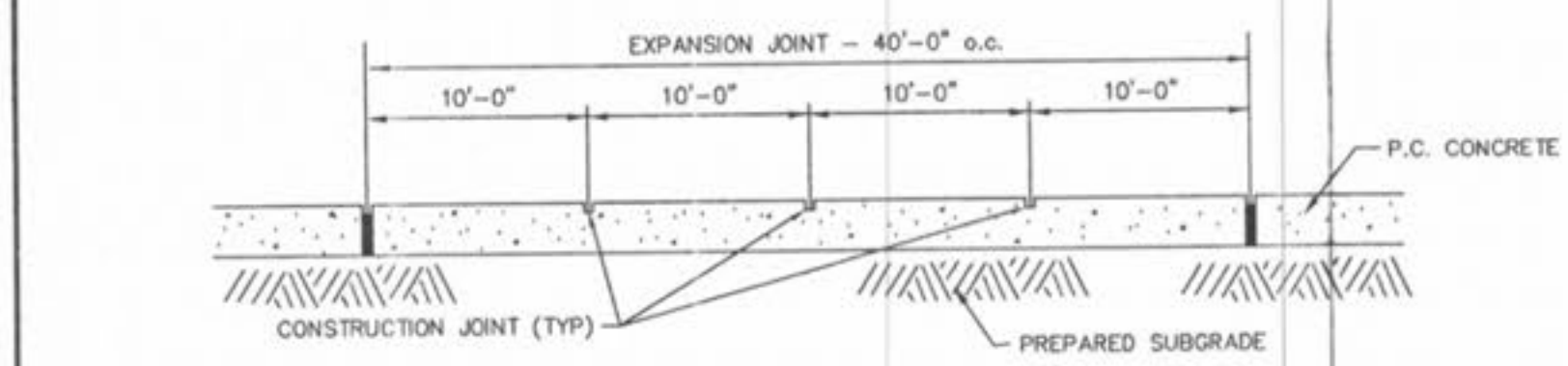
NOTES:

1. A 1" JOINT IS REQUIRED AT THE CURB AND GARAGE FOR ALL DRIVEWAYS LOCATED ON THE OUTER EDGE OF CURVED PAVEMENT, UNLESS GROOVED JOINTS ARE USED AT SIDEWALK. THEN A 2" JOINT IS REQUIRED AT CURB.
2. A 1/2" JOINT IS REQUIRED AT THE CURB AND GARAGE FOR ALL DRIVEWAYS LOCATED ON TANGENT SECTIONS OF PAVEMENT OR ON THE INNER EDGE OF CURVED PAVEMENT.
3. EXPANSION JOINT MATERIAL MUST EXTEND THROUGH THE FULL DEPTH OF THE PAVEMENT.
4. SIDEWALK THICKNESS SHALL BE A MINIMUM OF 7" THROUGH COMMERCIAL DRIVEWAYS.



NOTES:

1. THE NUMBER OF BACKER RODS REQUIRED WILL VARY WITH THE PAVEMENT THICKNESS. BACKER RODS AND FLEXIBLE FOAM FILLER MUST EXTEND THROUGH THE FULL DEPTH OF THE PAVEMENT.
2. JOINT FILLER SHALL BE A FLEXIBLE, NON-ABSORBENT, NON-GASSING, NON-STAINING, NON-SHRINKING MATERIAL, EXTRUDED FROM A CLOSED-CELL POLYMER, ASTM D-5249.
3. JOINT FILLER COMPOSED OF CELLULAR FIBERS, ASTM D-1751, MAY BE USED AT DRIVEWAY, SIDEWALK, AND SEWER INLET AND MANHOLE LOCATIONS.
4. SEE "INTEGRAL CURB DETAIL 'B' AT DRIVEWAYS" FOR EXPANSION JOINT REQUIREMENTS AT DRIVEWAY CONNECTIONS TO THE STREET AND THE GARAGE.



TYPICAL LOT LAYOUT WITH SWALES

6' MIN. SIDELANDS NTS

NOTE: DURING THE FINAL GRADING OPERATIONS, LOTS SHALL BE GRADED TO DRAIN ACCORDING TO THE TYPICAL LOT LAYOUT DETAIL.

TYPICAL YARD SWALE

Maximum Discharge (Q) = 4.00 cfs
 Maximum Velocity (V) = 4.00 ft/sec
 N = 0.030 (grass)
 Maximum side slopes = 3 (horizontal) : 1 (vertical)

Longitudinal Slope (S)	Discharge (cfs)	Velocity (ft/sec)	Depth (ft)
0.5	4.00	1.89	0.84
1.0	4.00	2.46	0.74
2.0	4.00	3.12	0.65
3.0	4.00	3.71	0.60
4.0	3.51	4.00	0.54
5.0	2.51	4.00	0.46
6.0	1.91	4.00	0.40
7.0	1.52	4.00	0.36
8.0	1.24	4.00	0.32
9.0	1.04	4.00	0.29
10.0	0.89	4.00	0.24

6.0' MINIMUM WIDTH

3.0' 3.0'

MIN. DEPTH 1.0'

3:1 SOOLED SIDE SLOPES

ISSUE REMARKS/DATE

ISSUE	REMARKS/DATE
1	09/15/03 - Flashed

PREPARED BY:

WHISPERING L.L.C.
 5091 NEW BAUMGARTNER ROAD
 ST. LOUIS, MISSOURI
 (314) 487-6717

11/27/2003

PREPARED BY:

THE STERLING CO.
 ENGINEERS & SURVEYORS
 5055 NEW BAUMGARTNER ROAD
 ST. LOUIS, MISSOURI 63129
 (314) 487-0440 FAX 487-8944
 E-Mail: Sterling@sterling-est.net

DRAWN: _____

DESIGNED: _____

CHECKED: _____

PROJECT:

WHISPERING WOODS

CONSTRUCTION DETAILS

SHEET TITLE:

NO. 03 02 021

M.S.D. SHEET

P# CD2

BASE MAP