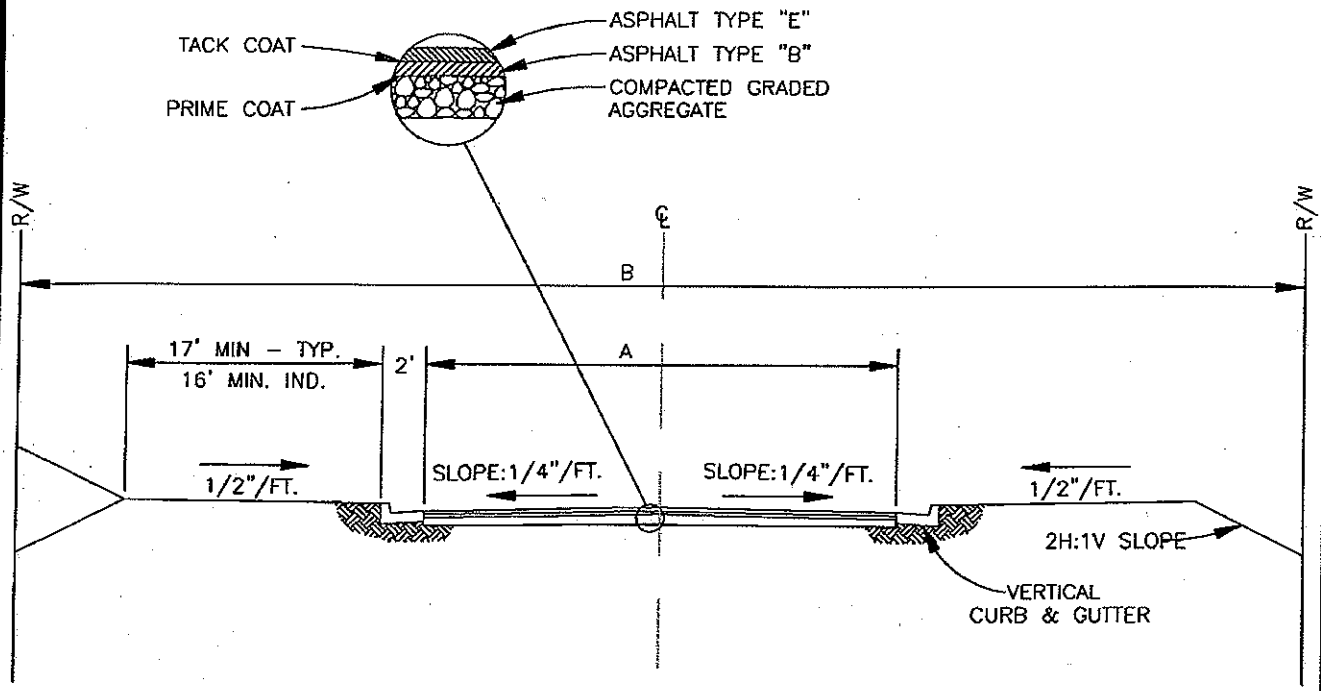


NOTE:
17' OF CLEARED R/W SHALL BE DEDICATED BEHIND ACCEL/DECEL LANES ALSO EXCEPT INDUSTRIAL SHALL BE 16'

NOTE:
R/W SHALL BE CLEAR OF ALL LIMBS, GRADED SMOOTH AND ESTABLISHED IN GRASS.

STREET CLASSIFICATION	MIN. PAVING WIDTH "A"	MIN. R/W WIDTH "B"	GAB	TYPE B	TYPE E–F
ARTERIAL	AS REQ'D	100'	10"	4"	2"
INDUSTRIAL	24'	60'	8"	3"	1–1/2"
MAJOR COLLECTOR	22'	80'	8"	3"	1–1/2"
MINOR COLLECTOR	22'	60'	6"	2"	1–1/2"
LOCAL	22'	60'	6"	2"	1–1/2"
ALLEY	12'	20'	6"	–	2"

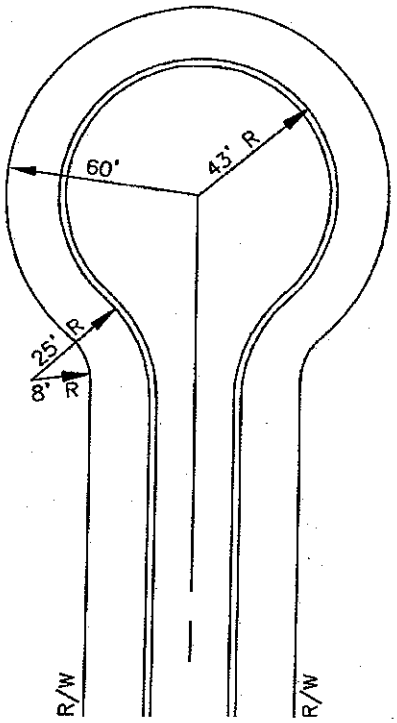
TYPICAL STREET CROSS SECTION

CITY OF CARTERSVILLE
PUBLIC WORKS

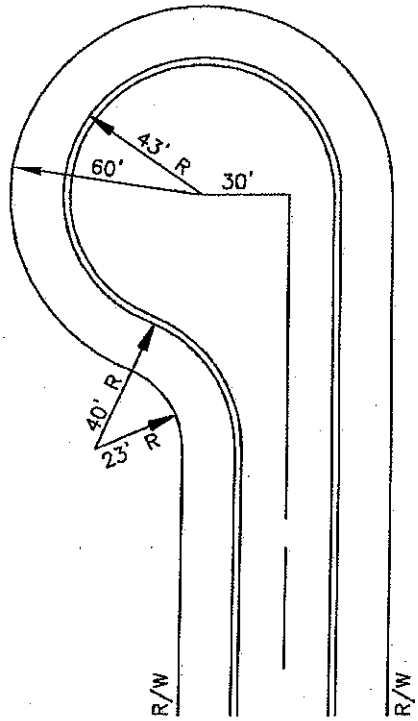
TYPICAL STREET CROSS SECTION
CONSTRUCTION STANDARD

DATE:	APR. '96
REV.	JULY '99
REV.	JULY '04
APPROVED:	

STANDARD NO. 3.8.01

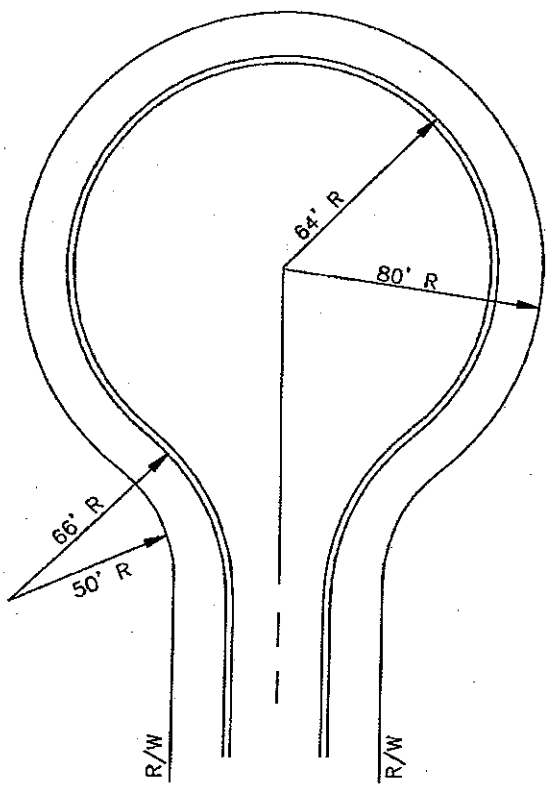


TYPICAL

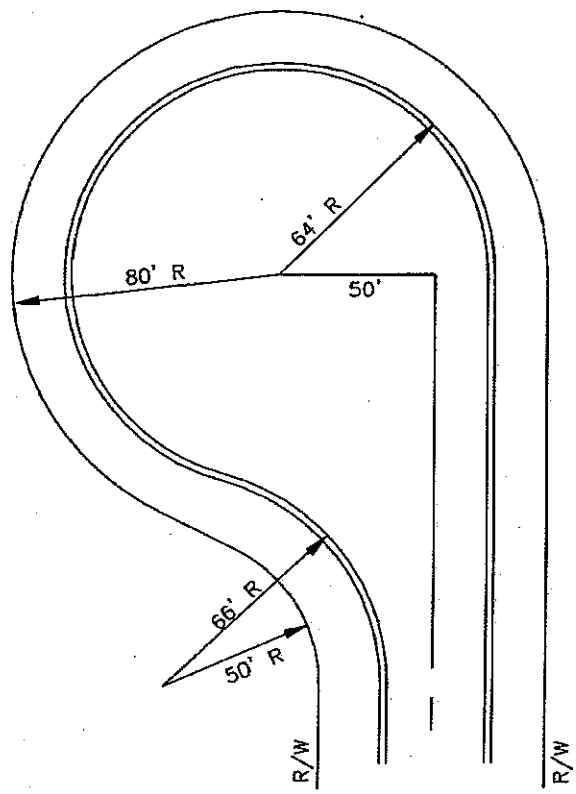


OFFSET LEFT OR RIGHT

CITY OF CARTERSVILLE DEPARTMENT OF PUBLIC WORKS	CUL-DE-SAC (RESIDENTIAL) CONSTRUCTION STANDARD	DATE:	MAR. '96	STANDARD NO. 3.8.02
		APPROVED:		

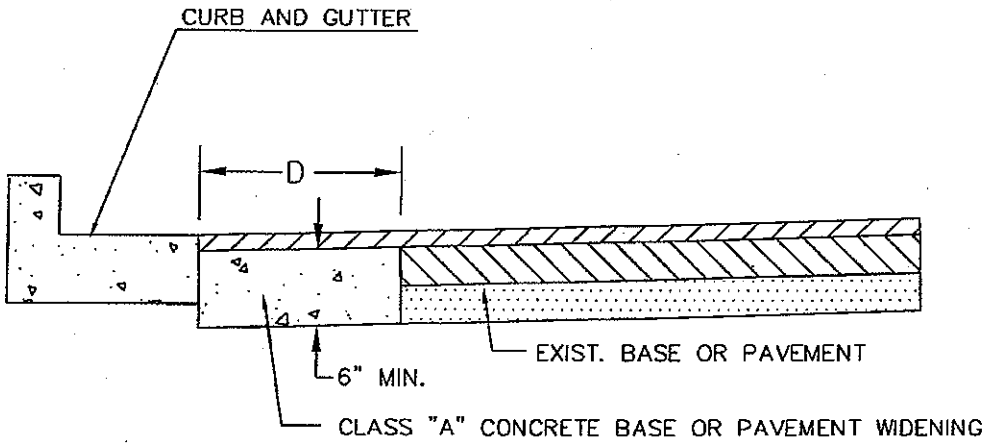


TYPICAL



OFFSET LEFT OR RIGHT

CITY OF CARTERSVILLE DEPARTMENT OF PUBLIC WORKS	CUL-DE-SAC (INDUSTRIAL/ COMMERCIAL) CONSTRUCTION STANDARD	DATE: APR. '96 APPROVED:	STANDARD NO. 3.8.03



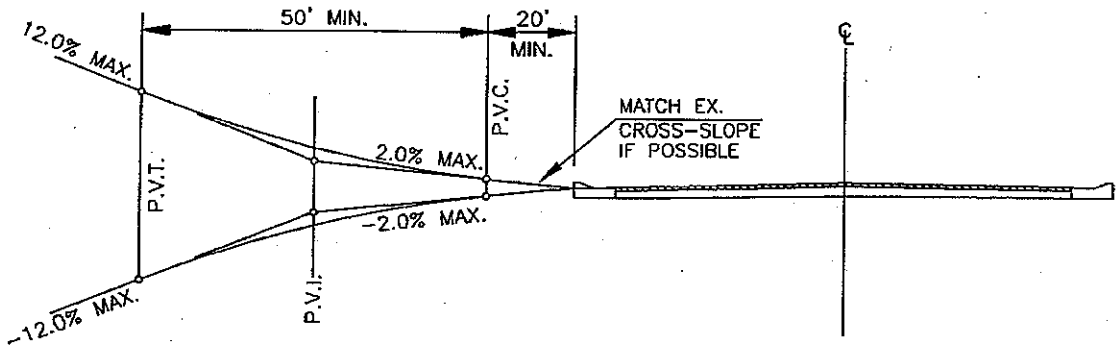
NOTE: IN EXCAVATED AREAS WHERE D = 2'-0" OR LESS IN WIDTH BETWEEN THE EXISTING PAVING AND NEW CURB AND GUTTER, CLASS "A" CONCRETE WILL BE PLACED IN LIEU OF THE BASE AND PAVING SPECIFIED BY THE TYPICAL SECTION.

IN EXCAVATED AREAS FROM WHERE D IS FROM 2'-0" TO 5'-0" IN WIDTH THE DEVELOPER MAY PLACE CLASS "A" CONCRETE IN LIEU OF THE BASE AND PAVING

IN EXCAVATED AREAS WHERE D IS GREATER THAN 5'-0" IN WIDTH THE DEVELOPER SHALL PLACE BASE AND PAVING AS SPECIFIED ON THE TYPICAL SECTION.

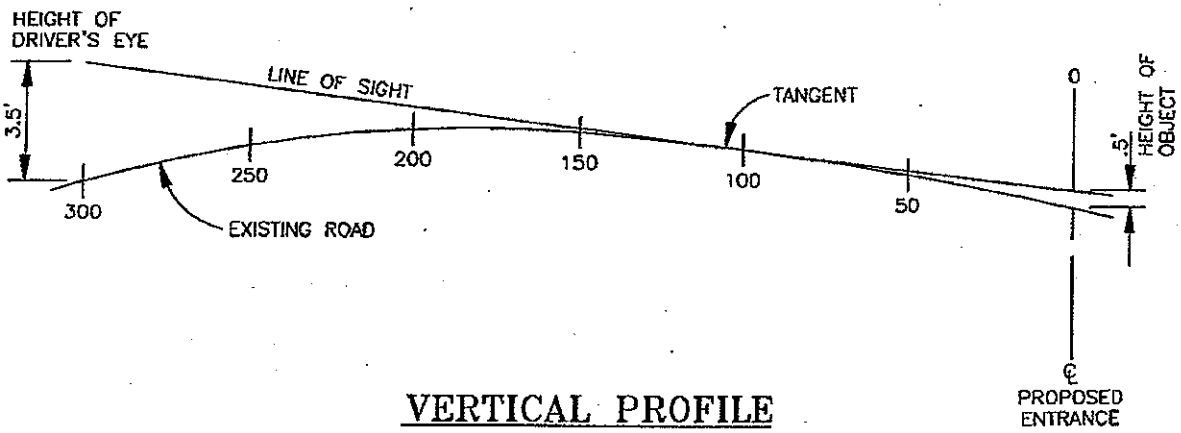
CLASS "A" CONCRETE IS AS DEFINED BY THE GEORGIA DOT.

CITY OF CARTERSVILLE PUBLIC WORKS	PAVEMENT WIDENING CONSTRUCTION STANDARD	DATE:	MAR. '96	STANDARD NO.
		APPROVED:		3.8.04



LANDING REQUIREMENTS

CITY OF CARTERSVILLE DEPARTMENT OF PUBLIC WORKS	LANDING REQUIREMENT (FOR STREET INTERSECTIONS) CONSTRUCTION STANDARD	DATE:	MAR. '96	STANDARD NO. 3.8.05
		APPROVED:		



VERTICAL PROFILE

VERTICAL ALIGNMENT:

THE SIGHT DISTANCE AT DEVELOPMENT ENTRANCES NEAR CREST VERTICAL CURVES IS DETERMINED BY THE LINE OF SIGHT AVAILABLE FROM THE DRIVER'S EYE 3.5 FEET ABOVE THE PAVEMENT TO AN OBJECT 6 INCHES HIGH AT THE CENTERLINE OF THE ENTRANCE. THE SIGHT DISTANCE IS MEASURED ALONG THE ROADWAY.

SPEED LIMIT (M.P.H.)	MINIMUM STOPPING SIGHT DISTANCE (FT.)
25	200
30	200
35	250
40	300
45	400
50	475
55	550

< 40 M.P.H.

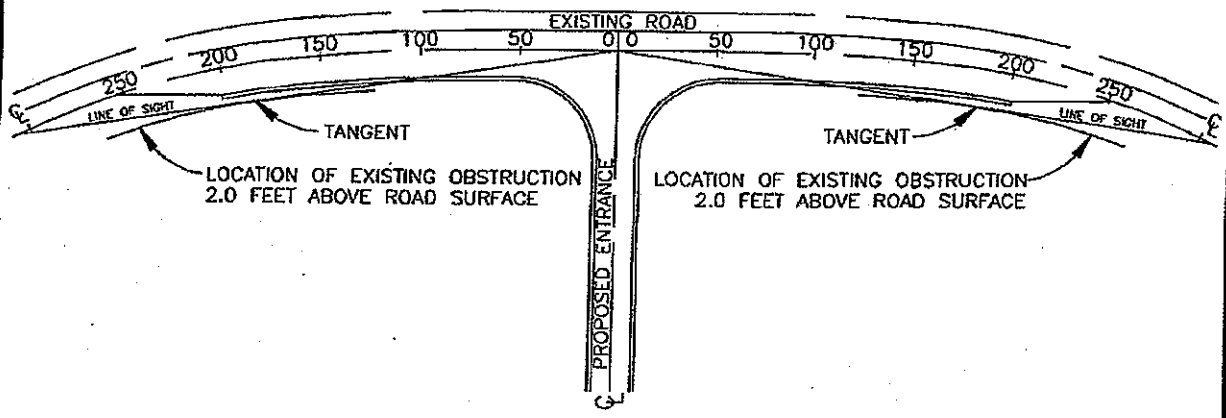
$$LVC = \frac{AS^2}{1329}$$

LVC = LENGTH OF VERTICAL CURVE
S = SIGHT DISTANCE
A = ALGEBRAIC DIFFERENCE OF INTERSECTING GRADES

> 40 M.P.H.

$$LVC = \frac{2S - 1329}{A}$$

CITY OF CARTERSVILLE DEPARTMENT OF PUBLIC WORKS	SIGHT DISTANCE CONSTRUCTION STANDARD	DATE: MAR. '96 APPROVED:	STANDARD NO. 3.8.06



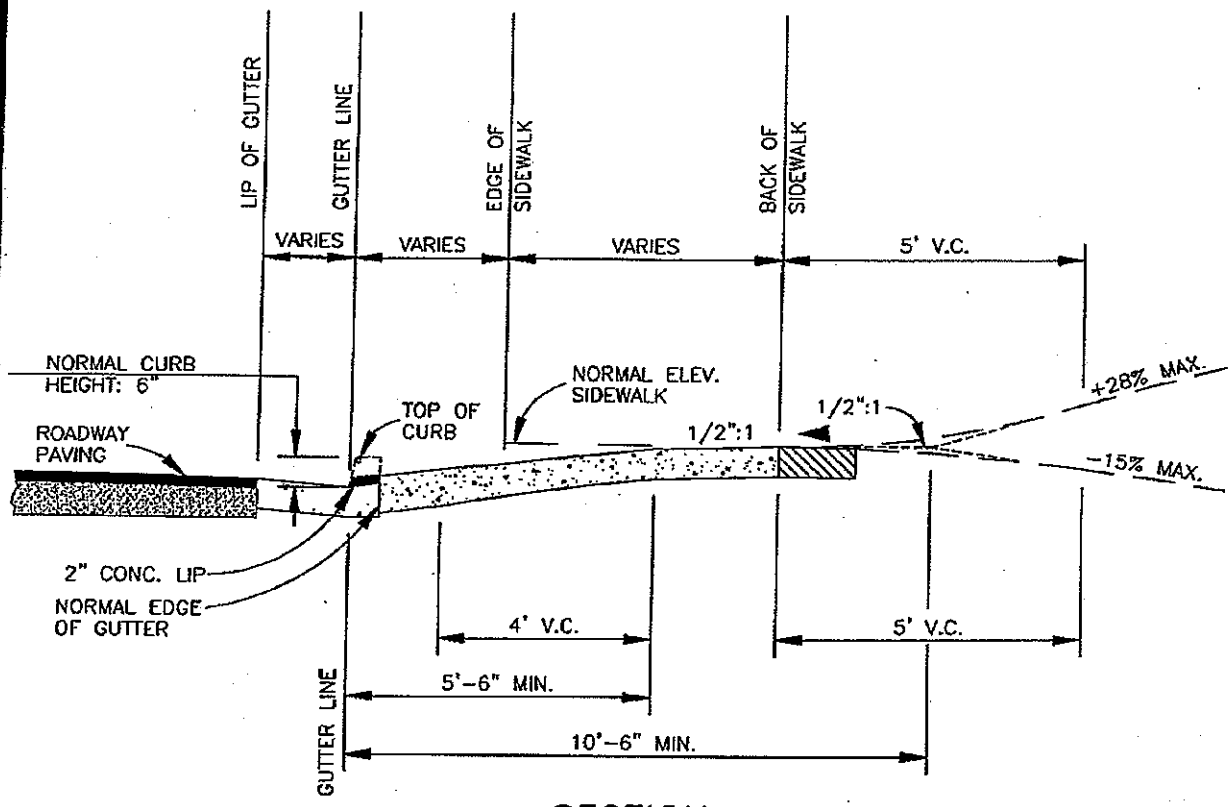
HORIZONTAL PLAN

HORIZONTAL SIGHT DISTANCE:

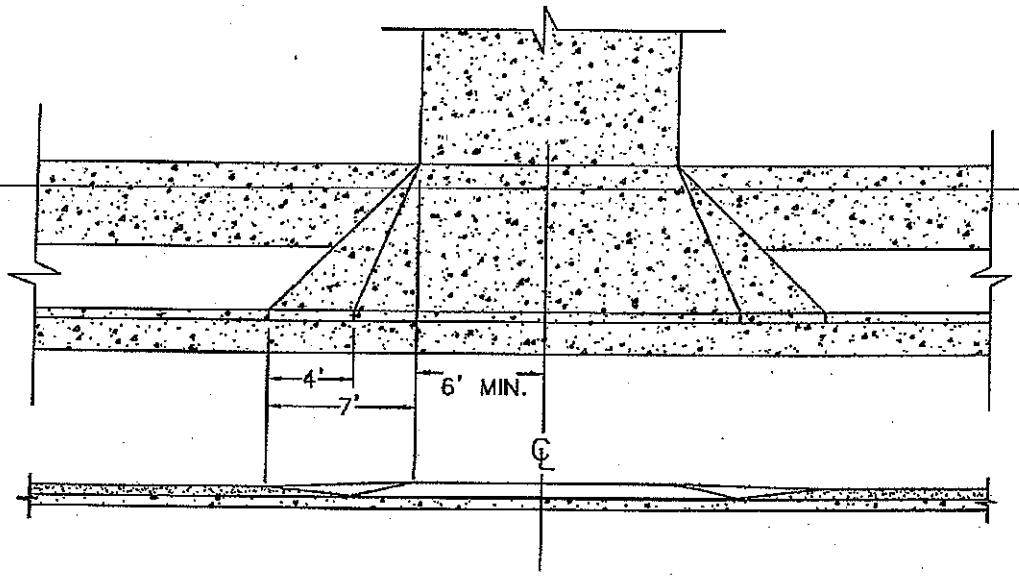
THE SIGHT DISTANCE AT DEVELOPMENT ENTRANCES IS DETERMINED BY THE LINE OF SIGHT AVAILABLE 2.0 FEET ABOVE THE ROAD SURFACE. THE SIGHT DISTANCE IS MEASURED ALONG THE EXISTING EDGE OF PAVEMENT BEGINNING AT THE CENTERLINE OF THE PROPOSED ENTRANCE AND ENDING WHERE THE PROJECTED LINE OF SIGHT INTERSECTS THE PAVEMENT. THE LINE OF SIGHT IS THE PROJECTED LINE OF VISIBILITY BEGINNING AT THE ENTRANCE CENTERLINE AND TANGENT TO AN OBSTRUCTION 2.0 FEET ABOVE THE ROAD SURFACE. EXAMPLES OF OBSTRUCTIONS ARE VEGETATION, GROUND COVER, SIGNS, EXISTING TOPOGRAPHY, ETC.

SPEED LIMIT (M.P.H.)	MINIMUM STOPPING SIGHT DISTANCE (FT.)
25	160
30	200
35	250
40	325
45	400
50	475
55	550

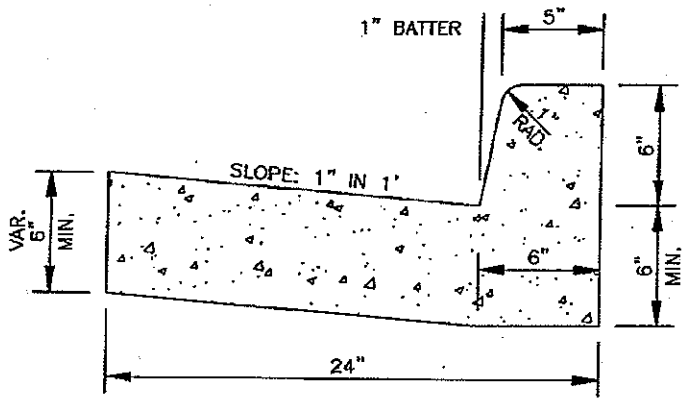
CITY OF CARTERSVILLE DEPARTMENT OF PUBLIC WORKS	DEVELOPMENT ENTRANCE–SIGHT DISTANCE CONSTRUCTION STANDARD	DATE:	MAR. '96	STANDARD NO. 3.8.07
		APPROVED:		



SECTION



CITY OF CARTERSVILLE PUBLIC WORKS	RESIDENTIAL & DBD DRIVEWAY CONSTRUCTION STANDARD	DATE:	MAR. '96	STANDARD NO. 3.8.08
		REV.	JULY '99	
		APPROVED:		

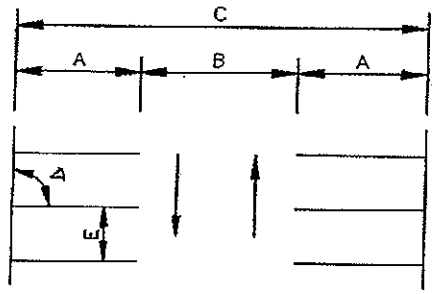


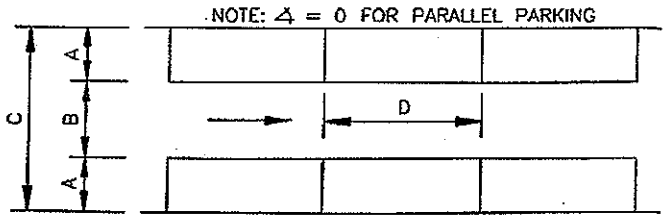
VERTICAL CURB

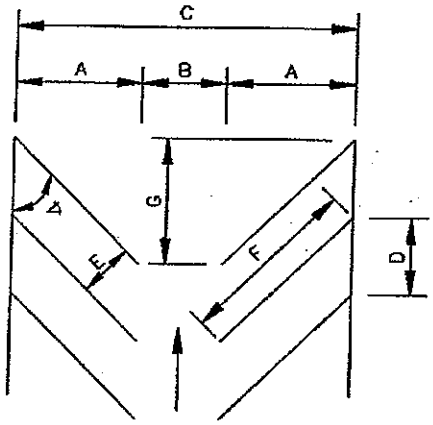
NOTE:

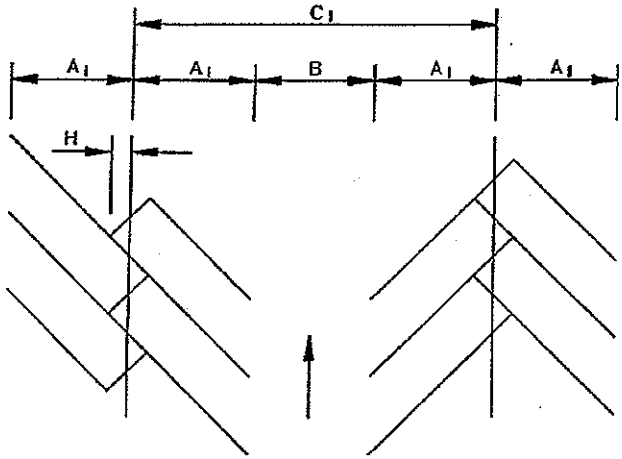
1. VERTICAL CURB SHALL COMPLY WITH GEORGIA STANDARD 9032B, 6" x 24", TYPE 2.
2. 1/2" PREFORMED EXPANSION JOINTS WILL BE REQUIRED AT TANGENT POINTS OF RADIUS RETURNS, AT DRIVEWAYS, AND STREET INTERSECTIONS AND AT 40' INTERVALS ALONG THE CURB.

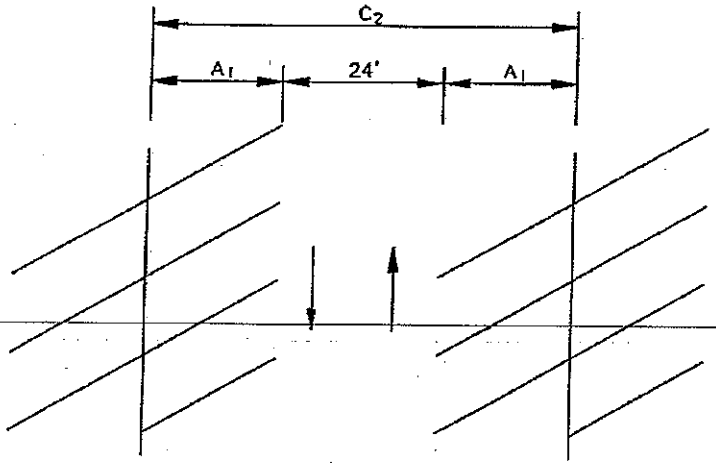
CITY OF CARTERSVILLE DEPARTMENT OF PUBLIC WORKS	CURB DETAIL CONSTRUCTION STANDARD	DATE:	MAR. '96	STANDARD NO. 3.8.09
		APPROVED:		









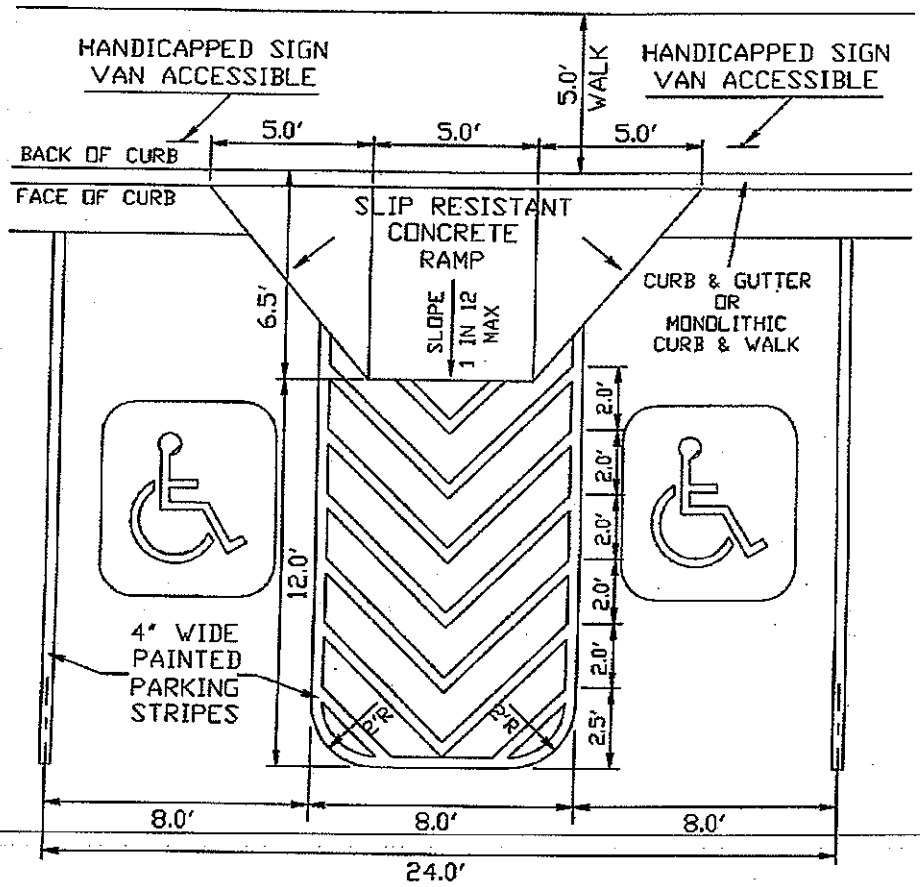


HANDICAP SPACES:

1. MINIMUM 13' WIDE.
2. WITHIN 200' OF ENTRANCE.
3. WALKS UNINTERRUPTED, NO STEPS, AT LEAST TWO SPACES.
4. UP TO 400 SPACES SHALL HAVE 2% HANDICAP BUT NO LESS THAT 2.
5. MORE THAN 400 SPACES SHALL HAVE EIGHT SPACES PLUS 1% FOR HANDICAP.

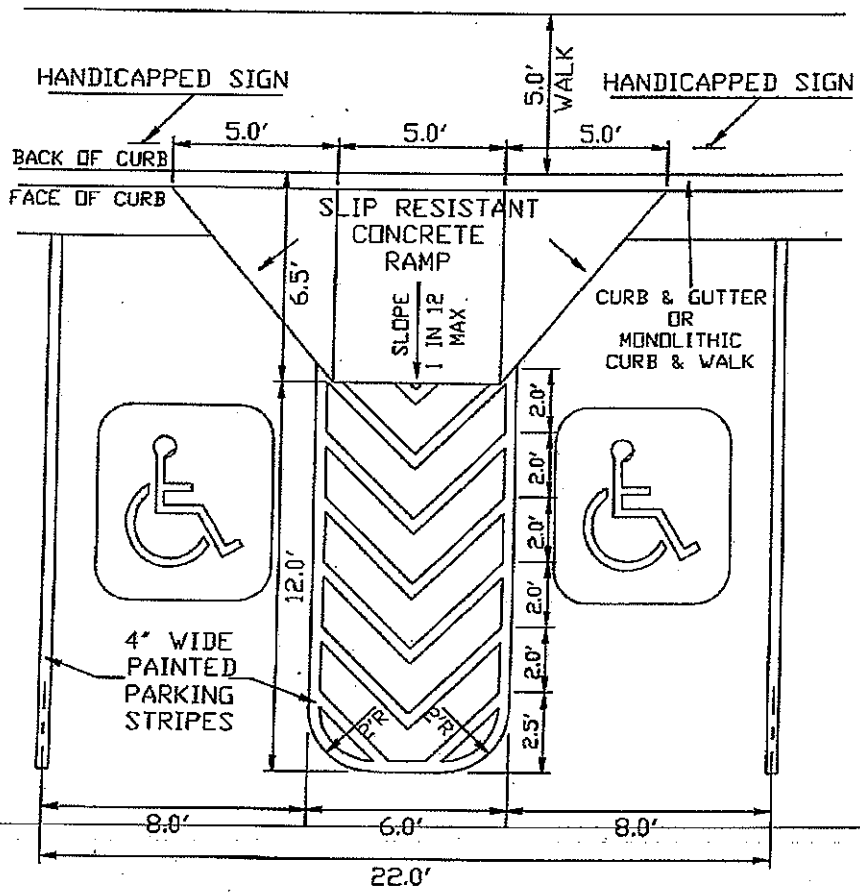
∡	A	B	A+B	C	D	E	F	G	H	A_1	C_1	C_2
ANGLE OF PARKING	DEPTH OF STALL	AISLE WIDTH	---	WIDTH OF BAY	CURB LENGTH	WIDTH OF STALL	LENGTH OF STRIPE	WASTE SPACE	DEPTH OF OVERHANG	DEPTH OF STALL	WIDTH OF AREA	WIDTH OF AREA
0°	9.0	12.0	21.0	30.0	22.0	---	---	---	---	---	---	42.0
45°	19.1	13.0	32.1	51.2	12.7	9.0	27.0	19.1	3.2	15.9	44.8	55.8
60°	20.1	18.0	38.1	58.2	10.4	9.0	23.2	11.6	2.3	17.8	53.6	59.6
90°	18.0	24.0	42.0	60.0	9.0	9.0	---	---	---	---	---	60.0

CITY OF CARTERSVILLE DEPARTMENT OF PUBLIC WORKS	OFFSTREET PARKING CONSTRUCTION STANDARD	DATE: MAR. '96 APPROVED:	STANDARD NO. 3.8.10a



HANDICAPPED RAMP AND
VAN ACCESSIBLE HANDICAPPED PARKING

CITY OF CARTERSVILLE DEPARTMENT OF PUBLIC WORKS	OFFSTREET PARKING CONSTRUCTION STANDARD	DATE:	MAR. '96	STANDARD NO. 3.8.10b
		APPROVED:		

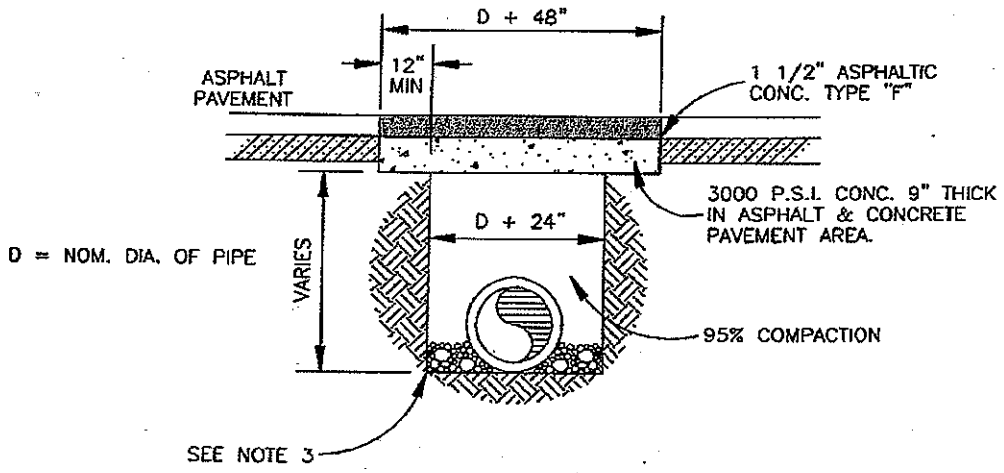


HANDICAPPED RAMP AND
NON-VAN HANDICAPPED PARKING

CITY OF CARTERSVILLE DEPARTMENT OF PUBLIC WORKS	OFFSTREET PARKING CONSTRUCTION STANDARD	DATE:	MAR. '96	STANDARD NO. 3.8.10c
		APPROVED:		

NOTE:

IF CONCRETE PAVEMENT, REPLACE WITH ORIGINAL THICKNESS (MINIMUM 8"), FLUSH WITH EXISTING PAVEMENT.



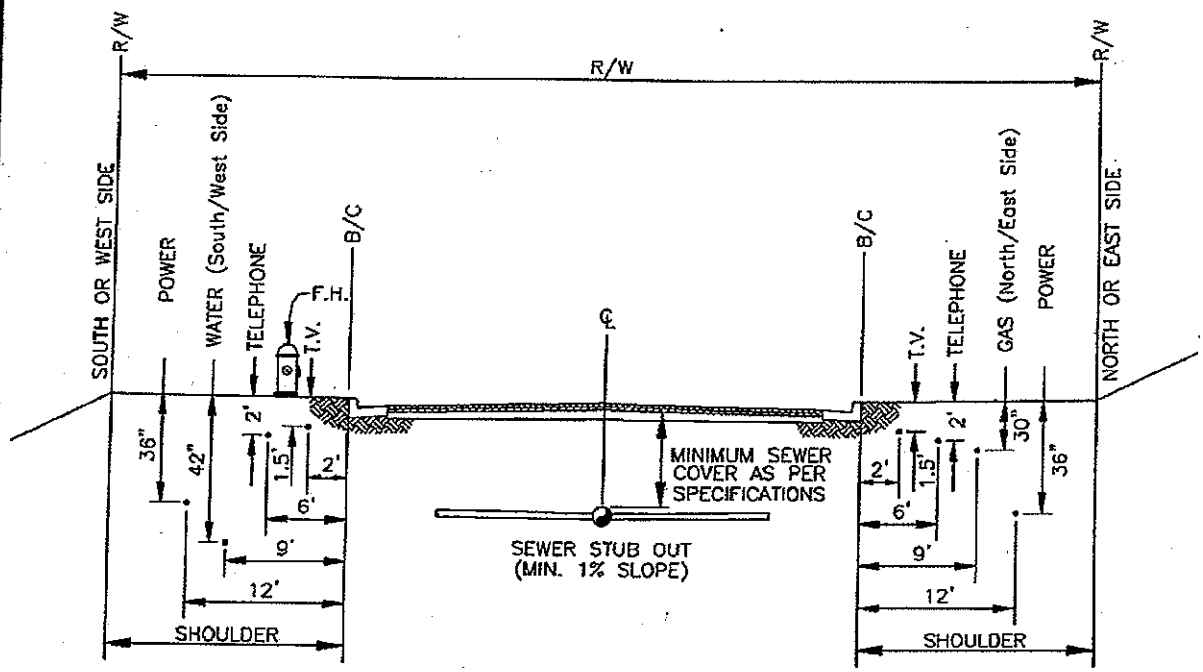
NOTE: PERMIT REQUIRED FOR ALL STREET CUTS

TYPICAL PAVEMENT REPAIR

NOTES:

1. PERMISSION MUST BE OBTAINED TO OPEN CUT EXISTING ROADS.
2. ROADWAYS WILL GENERALLY BE BORED OR TUNNELED FROM DITCH LINE TO DITCH LINE.
3. BED AS PER APPLICABLE UTILITY SPECIFICATION.

CITY OF CARTERSVILLE DEPARTMENT OF PUBLIC WORKS	TYPICAL STREET CUT REPAIR CONSTRUCTION STANDARD	DATE: APR. '96 APPROVED:	STANDARD NO. 3.8.11

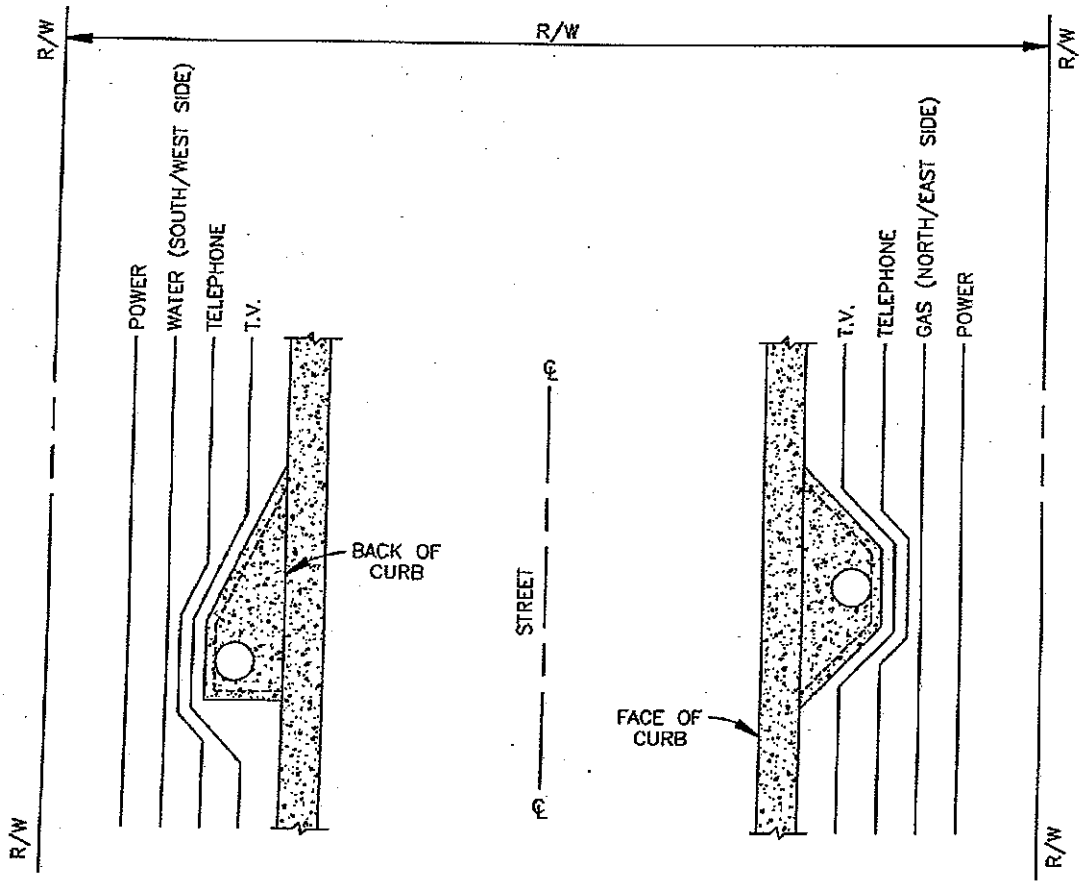


CROSS SECTION

NOTES:

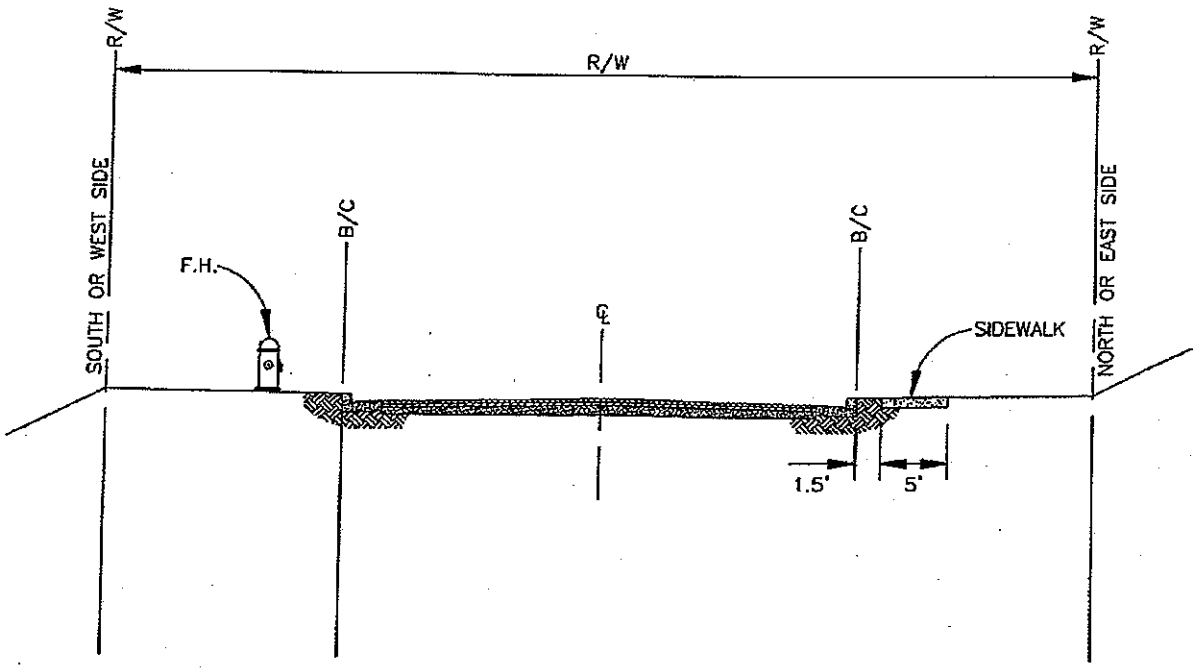
1. THE REQUIRED DISTANCES FROM THE CURBS WILL APPLY TO UNDERGROUND UTILITIES.
2. THE REQUIRED LOCATION OF UTILITIES SHALL BE MEASURED FROM THE BACK OF THE CURB. CURB & GUTTER MUST BE INSTALLED AFTER SEWER BUT BEFORE ANY OTHER UTILITIES ARE INSTALLED.
3. PEDESTALS FOR TELEPHONE AND CABLE INSTALLATIONS TO BE LOCATED 7' FT. FROM BACK OF CURB. IF JOINT TRENCHING WITH POWER, PEDESTALS ARE TO BE LOCATED IN DESIGNATED SPACE FOR POWER.
4. FIRE HYDRANTS ON ROAD THRUWAYS ARE TO BE LOCATED A MINIMUM OF 5 FT. FROM BACK OF CURB. FIRE HYDRANTS ON CUL-DE-SACS ARE TO BE LOCATED A MAXIMUM OF 8 FT. FROM BACK OF CURB.
5. ELECTRICAL TRANSFORMERS ARE TO BE LOCATED IN LINE WITH DESIGNATED SPACE FOR POWER. STREET LIGHTS ARE TO BE LOCATED 7.5' FROM BACK OF CURB.
6. REAR OF WATER METER TO BE AT PROPERTY LINE.
7. SEWER SERVICE STUB TO EXTEND 5 FT. ONTO PROPERTY.

CITY OF CARTERSVILLE DEPARTMENT OF PUBLIC WORKS	NOMINAL UTILITY LOCATIONS CONSTRUCTION STANDARD	DATE:	6/23/98	STANDARD NO. 3.8.12
		APPROVED:		



PLAN

CITY OF CARTERSVILLE DEPARTMENT OF PUBLIC WORKS	UTILITY LOCATIONS CONSTRUCTION STANDARD	DATE: APR. '96 APPROVED:		STANDARD NO. 3.8.13

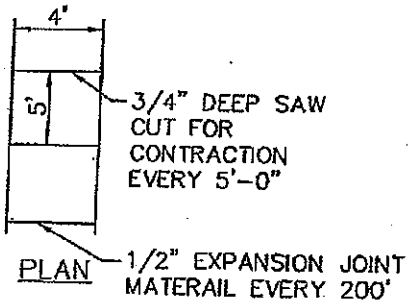


CROSS SECTION

NOTES:

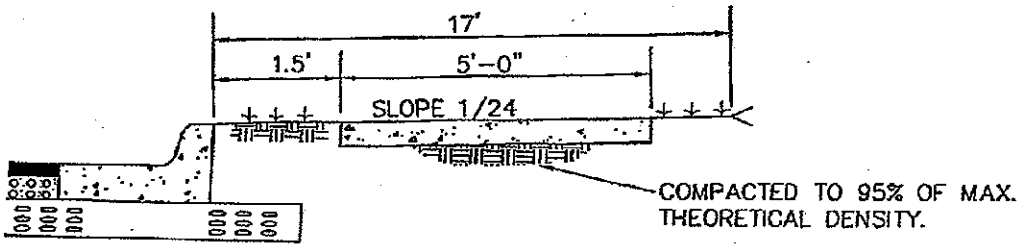
1. SIDEWALKS NORMALY TO BE LOCATED ON THE NORTH OR EAST SIDE OF STREET.
2. IN CASES WHERE STREET CONFIGURATION REQUIRES SIDEWALK TO BE LOCATED ON THE SOUTH OR WEST SIDE OF STREET, FIRE HYDRANTS MUST BE LOCATED ON OPPOSITE SIDE OF STREET.

CITY OF CARTERSVILLE DEPARTMENT OF PUBLIC WORKS	SIDEWALK LOCATION CONSTRUCTION STANDARD	DATE:	APR. '96 APR. '07	STANDARD NO. 3.8.14
		APPROVED:		



PLAN

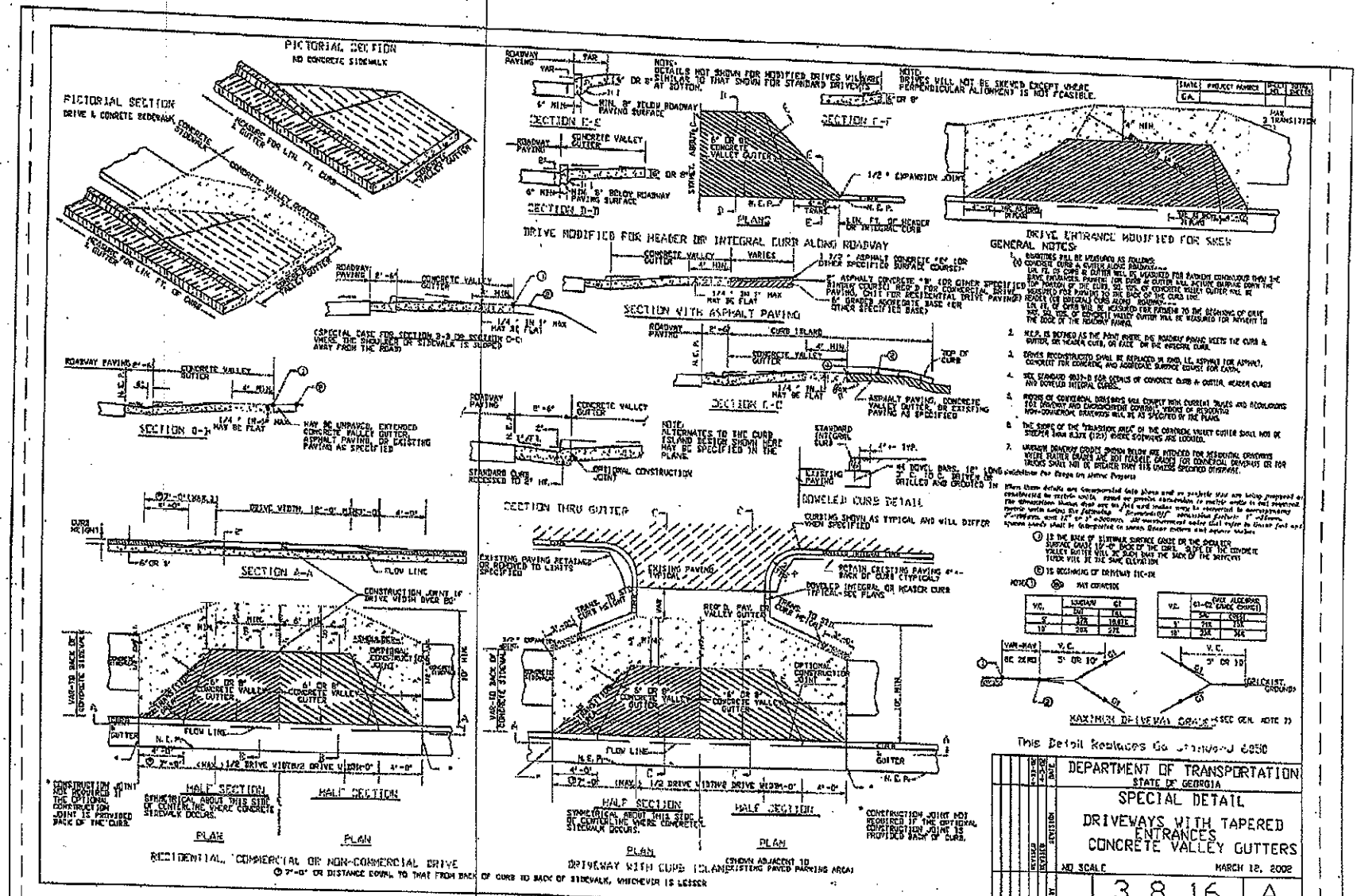
NOTE: 1/2" PREMOULDED EXPANSION JOINT AT DRIVEWAYS, CURBS ETC.
5'-0" SIDEWALK CUT IN 5'-0" SQUARES 1 1/2" GROOVES.

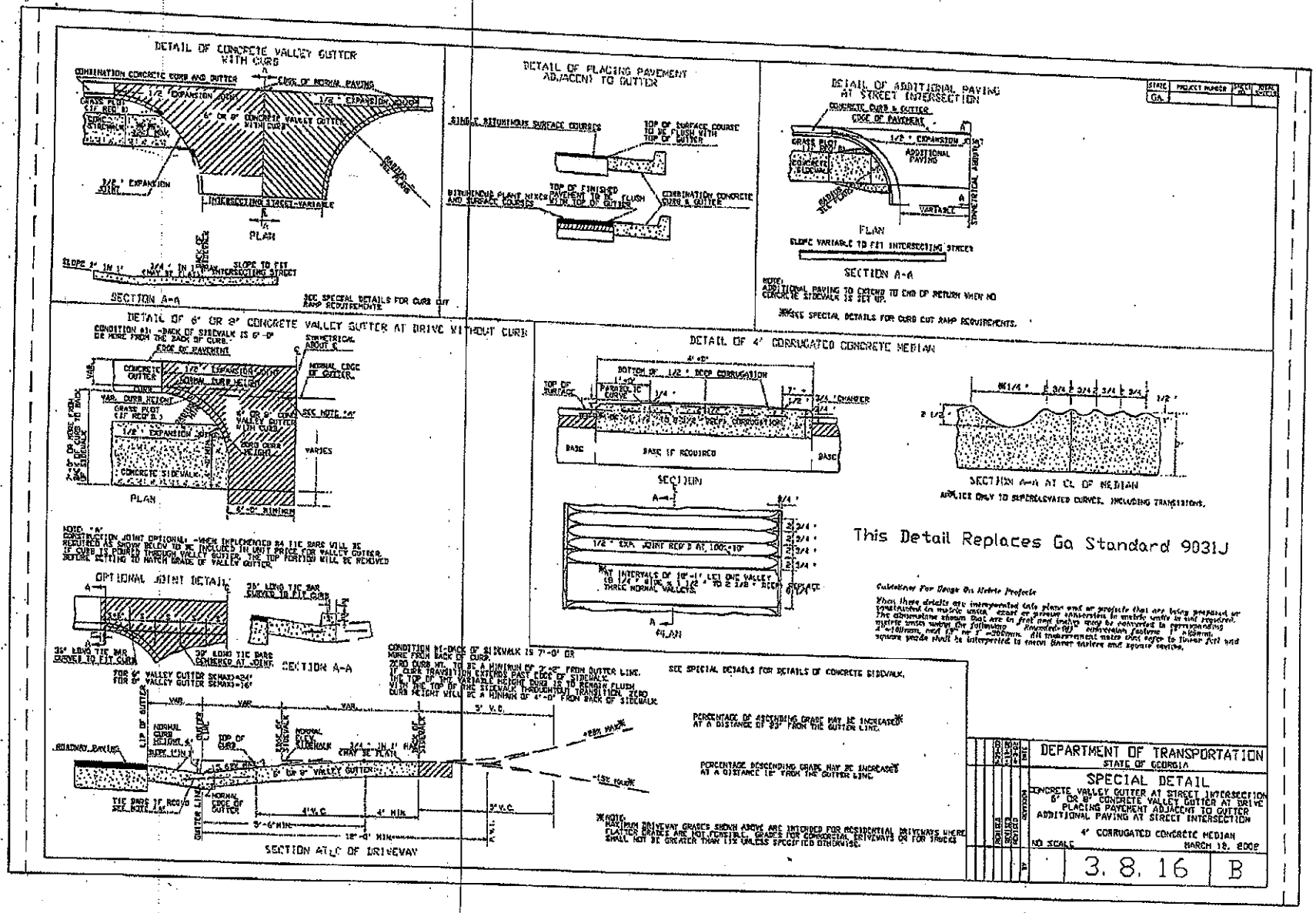


TYPICAL SECTION OF 5'-0" SIDEWALK

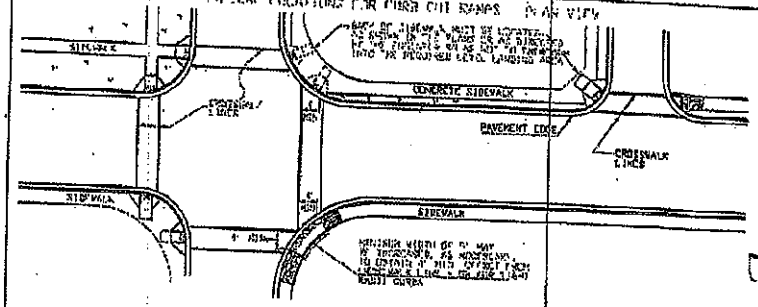
NOTE: SIDEWALK TO BE CONSTRUCTED OF CLASS "A" CONCRETE AS DEFINED BY THE GEORGIA DOT.

CITY OF CARTERSVILLE PUBLIC WORKS	SIDEWALK CONSTRUCTION STANDARD	DATE:	MAR. '96 APR. '07	STANDARD NO.
		APPROVED:		3.8.15


PICTORIAL SECTION
NO CONCRETE SIDEWALK
PICTORIAL SECTION
DRIVE & CONCRETE SIDEWALK
CONCRETE SIDEWALK
CONCRETE VALLEY GUTTER
HOUSING FOR LIN. FT. OF CURB
SECTION E-E
SECTION F-F
SECTION D-D
PLANS
DRIVE MODIFIED FOR HEADER OR INTEGRAL CURB ALONG ROADWAY
DRIVE ENTRANCE MODIFIED FOR SHEA
GENERAL NOTES:
SECTION WITH ASPHALT PAVING
SECTION G-G
SECTION C-C
SECTION A-A
SECTION THRU GUTTER
DOWELED CURB DETAIL
HALF SECTION
PLAN
RESIDENTIAL, COMMERCIAL OR NON-COMMERCIAL DRIVE
DRIVEWAY WITH CURB ISLANDS
MAXIMUM DRIVEWAY GRADE
This Detail Replaces Ga. Standard 6050
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
SPECIAL DETAIL
DRIVEWAYS WITH TAPERED ENTRANCES
CONCRETE VALLEY GUTTERS
NO SCALE
MARCH 12, 2002
3.8.16
A

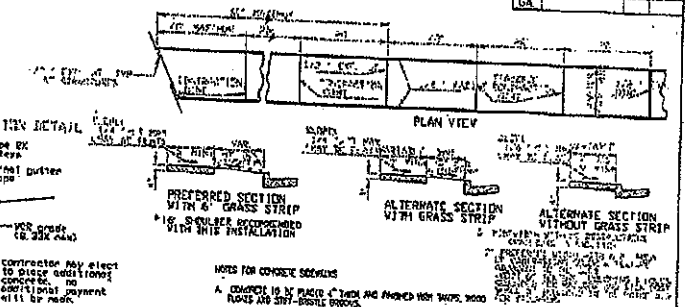

DETAIL OF CONCRETE VALLEY GUTTER WITH CURB
COMBINATION CONCRETE CURB AND GUTTER
EDGE OF NORMAL PAVING
1/2" EXPANSION JOINT
6" OR 8" CONCRETE VALLEY GUTTER WITH CURB
3/8" EXPANSION JOINT
INTERSECTING STREET-VARIABLE
PLAN
SECTION A-A
SLOPE TO FIT INTERSECTING STREET
SEE SPECIAL DETAILS FOR CURB CUT RAMP REQUIREMENTS
DETAIL OF PLACING PAVEMENT ADJACENT TO GUTTER
SINGLE BITUMINOUS SURFACE COURSE
TOP OF SURFACE COURSE TO BE FLUSH WITH TOP OF GUTTER
BITUMINOUS PLANT MIXED AND SURFACE COURSE
TOP OF FINISHED PAVEMENT TO BE FLUSH WITH TOP OF GUTTER
COMBINATION CONCRETE CURB & GUTTER
DETAIL OF ADDITIONAL PAVING AT STREET INTERSECTION
CONCRETE CURB & GUTTER
EDGE OF PAVEMENT
1/2" EXPANSION JOINT
ADDITIONAL PAVING
VARIANCE
PLAN
SLOPE VARIABLE TO FIT INTERSECTING STREET
SECTION A-A
NOTE:
ADDITIONAL PAVING TO EXTEND TO END OF RETURN WHEN NO CONCRETE SIDEWALK IS SET UP.
SEE SPECIAL DETAILS FOR CURB CUT RAMP REQUIREMENTS.
DETAIL OF 6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE WITHOUT CURB
CONDITION #1: BACK OF SIDEWALK IS 6'-0" OR MORE FROM THE BACK OF CURB.
EDGE OF PAVEMENT
SYMMETRICAL ABOUT ℄
CONCRETE GUTTER
1/2" EXPANSION JOINT
NORMAL CURB HEIGHT
NORMAL EDGE OF GUTTER
VAR. CURB HEIGHT
GRADE POST (IF REQ'D.)
6" OR 8" CONC. VALLEY GUTTER WITH CURB
ZERO CURB HEIGHT
SEE NOTE "A"
VARIES
CONCRETE SIDEWALK
PLAN
5'-0" RUNNER
NOTE "A"
CONSTRUCTION JOINT OPTIONAL - WHEN IMPLEMENTED #4 TIE BARS WILL BE REQUIRED AS SHOWN BELOW TO BE INCLUDED IN UNIT PRICE FOR VALLEY GUTTER. IF CURB IS POURED THROUGH VALLEY GUTTER, THE TOP PORTION WILL BE REMOVED BEFORE SETTING TO MATCH GRADE OF VALLEY GUTTER.
OPTIONAL JOINT DETAIL
36" LONG TIE BAR CURVED TO FIT CURB
36" LONG TIE BAR CURVED TO FIT CURB
30" LONG TIE BARS EMBEDDED AT JOINT
FOR 6" VALLEY GUTTER SEMAX=24"
FOR 8" VALLEY GUTTER SEMAX=16"
SECTION A-A
CONDITION #2: BACK OF SIDEWALK IS 7'-0" OR MORE FROM BACK OF CURB.
ZERO CURB HT. TO BE A MINIMUM OF 2'-6" FROM GUTTER LINE.
IF CURB TRANSITION EXTENDS PAST EDGE OF SIDEWALK THE TOP OF THE VARIABLE HEIGHT CURB IS TO REMAIN FLUSH WITH THE TOP OF THE SIDEWALK THROUGHOUT TRANSITION. ZERO CURB HEIGHT WILL BE A MINIMUM OF 4'-0" FROM BACK OF SIDEWALK
VAR.
5' V.C.
LIP OF GUTTER
NORMAL CURB HEIGHT, 6" BUFF (TYP.)
TOP OF CURB
BACK OF SIDEWALK
NORMAL EDGE SIDEWALK
3/4" IN 1' MAX. CRAZE PLAN
ROADWAY PAVING
6" OR 8" VALLEY GUTTER
TIE BARS IF REQ'D SEE NOTE "A"
GUTTER LINE
NORMAL EDGE OF GUTTER
4'-V.C.
4' MIN.
5'-V.C.
9'-6" MIN.
18'-0" MIN.
P.V.C.
SECTION AT ℄ OF DRIVEWAY
DETAIL OF 4" CORRUGATED CONCRETE MEDIAN
4'-0"
BOTTOM OF 1/2" DEEP CORRUGATION
1'-0"
TOP OF SURFACE
PAVED TO CURVE
3/4"
1/2"
3/4" CHAMFER
BASE
BASE IF REQUIRED
SECTION
1/2" EXP. JOINT REQ'D AT 100'±10'
PLAN
SECTION A-A AT ℄ OF MEDIAN
APPLIES ONLY TO SUPERELEVATED CURVES, INCLUDING TRANSITIONS.
This Detail Replaces Ga Standard 9031J
Guidelines For Usage On Metric Projects
SEE SPECIAL DETAILS FOR DETAILS OF CONCRETE SIDEWALK.
PERCENTAGE OF ASCENDING GRADE MAY BE INCREASED* AT A DISTANCE OF 25' FROM THE GUTTER LINE.
PERCENTAGE DESCENDING GRADE MAY BE INCREASED* AT A DISTANCE 18' FROM THE GUTTER LINE.
*NOTE:
MAXIMUM DRIVEWAY GRADES SHOWN ABOVE ARE INTENDED FOR RESIDENTIAL DRIVEWAYS WHERE FLATTER GRADES ARE NOT POSSIBLE. GRADES FOR COMMERCIAL DRIVEWAYS OR FOR TRUCKS SHALL NOT BE GREATER THAN 11% UNLESS SPECIFIED OTHERWISE.
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
SPECIAL DETAIL
CONCRETE VALLEY GUTTER AT STREET INTERSECTION
6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE
PLACING PAVEMENT ADJACENT TO GUTTER
ADDITIONAL PAVING AT STREET INTERSECTION
4" CORRUGATED CONCRETE MEDIAN
NO SCALE
MARCH 18, 2002
3.8.16
B

TYPICAL LOCATIONS FOR CURB CUT RAMPS PLAN VIEW

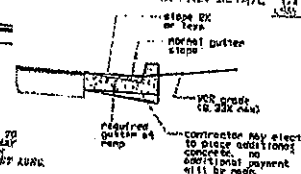


CONCRETE SIDEWALK DETAILS

STATE	PROJECT NUMBER	SHEET NO.	NO. SHEETS
GA.			



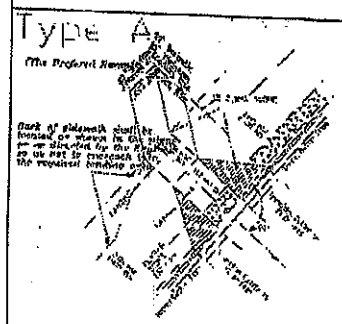
GUTTER TRANSITION DETAIL



NOTE: CURB RAMP THROUGH IS NOT REQUIRED TO EXCEED 1% FOR THE RAMP SLOPE MAY EXCEED 1% IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP IS THEY ARE.

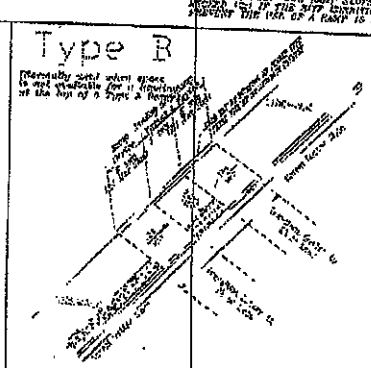
Type A

(The Preferred Ramp)



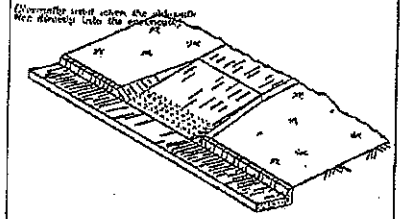
Type B

(Normally used when space is not available for a landing at the top of a Type A ramp.)

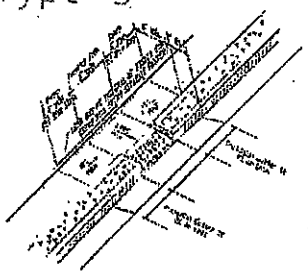


Type D

(Normally used when the sidewalk has already been poured.)

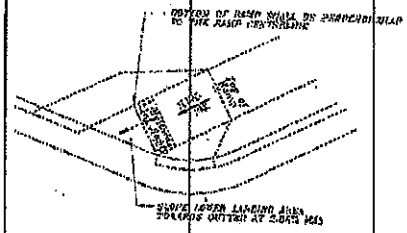


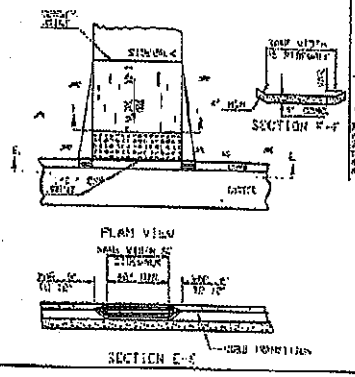
Type C



Skewed Ramp Details

(Applies to Type A & Type D Ramps Only)





NOTES FOR CONCRETE SIDEWALKS

A. CONCRETE TO BE PLACED 4" THICK AND FINISHED WITH TROWEL WOOD FLOATS AND STIFF-BRISTLE BROOMS.

B. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 30 FT. INTERVALS. ALL EDGES TO BE ROUNDED TO 1/2" RADIUS.

C. 1/2" EXPANSION JOINTS SHALL BE PLACED WHERE SIDEWALKS TIE INTO A STRUCTURE OR TERMINATE AT CURB RAMPS OR DRIVEWAYS AND AT 60' INTERVALS.

NOTES FOR CURB CUT RAMPS

1. CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE:
   a) AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED
   b) WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT DRIVEWAYS OR AT INTERSECTIONS.
   c) AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC. WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED
2. RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATION FOR RAMP WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH.
3. DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
4. WHERE RAMPS ARE LOCATED ON CURVE, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND THICKS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
5. WHERE UTILITY STRUCTURES CONFLICT WITH SIDEWALK CONCRETE VARIES AT POSITION OF THE DESIGNER OR IN OTHER SPECIAL CASES, THE RAMP DESIGN MAY BE A MINIMUM OF 48 INCHES, PROVIDED THAT THE WIDTH PORTION IS SHORTER THAN 30.
6. LIP FL OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT OF RAMP, 50 TON OF CONCRETE SIDEWALK AND CONCRETE MEDIAN PAVING WILL INCLUDE RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR CURB RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR SAWING AND REMOVING EXISTING SIDEWALK OR CURB WHERE NECESSARY FOR RAMP CONSTRUCTION
7. WHEN A CURB RAMP IS PLACED ON EXISTING PAVEMENT, THE PAVEMENT SHALL BE REMOVED TO PROVIDE A MINIMUM THICKNESS OF 2 INCHES OF CONCRETE AT ALL LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL OF THE PAVEMENT.

This Detail Replaces GA Standard 0120W

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared in conformance to metric units, usual or proper conversion to metric units is not required. Metric units using the following conversion factors to corresponding English units: 1" = 25.4mm. All measurements under one meter in linear feet and square inches shall be interpreted as round under meters and square meters.

LOC.	DESCRIPTION	DATE	BY	REVISION
	REVISED			
	REVISED			
	REVISED			
	REVISED			
	REVISED			
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	REVISED			
	REVISED			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS

NO SCALE

MARCH 12, 2002

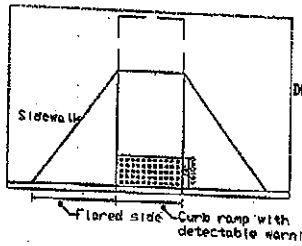
3. 8. 16 | C

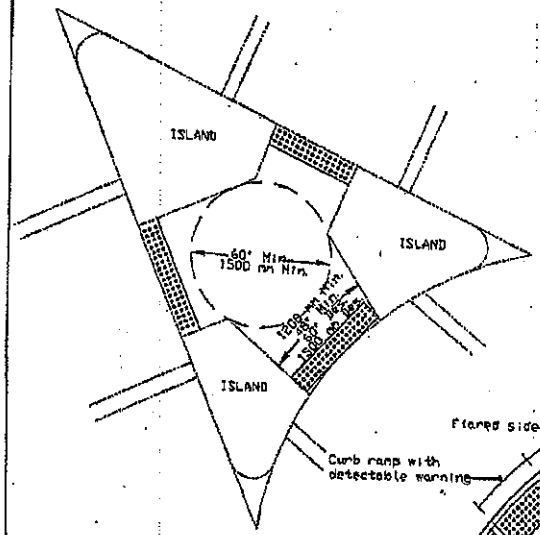
SIZE: DETECTABLE WARNINGS SHALL BE 24 INCHES (610 mm) IN THE DIRECTION OF PEDESTRAIN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

LOCATION: THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES (150 mm to 180mm) FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUCH AS A REFLECTIVE POOL EDGE OR THE DYNAMIC ENVELOPE OF RAIL OPERATIONS.

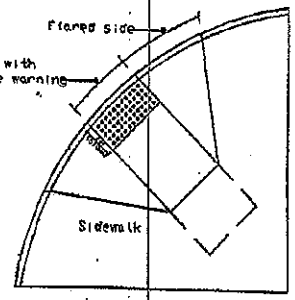
DOME SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23mm-36mm) AT THE BOTTOM, A DIAMETER OF 0.45 INCH TO 0.91 INCH (11mm-23mm) AT THE TOP, THE TOP DIA. SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMENTER, A HEIGHT OF 0.2 INCH (5.1mm) AND A CENTER-TO-CENTER SPACING OF 2.40 INCHES (61mm) DESIRABLE 1.60 INCHES (41mm) MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

VISUAL CONTRAST: DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.



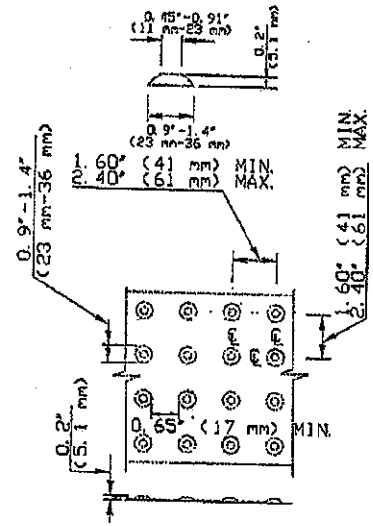


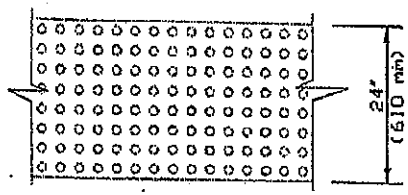
DETAIL FOR DETECTABLE WARNING AT CUT-THRU ISLAND



NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE WARNINGS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK (OR CURB CUT RAMP IF THE ITEM IS INCLUDED IN THE PROPOSAL).

FOR CUT-THRU ISLANDS AND EXISTING RAMPS, WHERE NO SIDEWALK OR CURB CUT RAMPS ARE IN THE PROPOSAL. THE COST OF THE DETECTABLE WARINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.





MATERIALS:

NEW CONSTRUCTION

THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON DPL 87.

RETROFIT OF EXISTING RAMPS

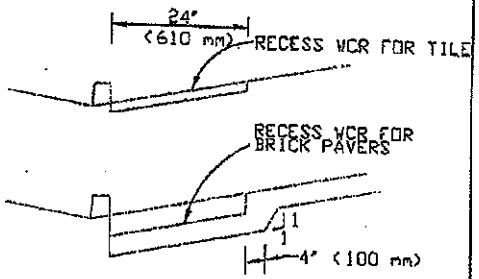
SURFACED APPLIED MATERIALS WILL ONLY BE APPROVED TO BE USED ON EXISTING WHEELCHAIR RAMPS.

INSTALLATION:

BRICK PAVERS SHALL BE SET IN A WET MORTAR BED. THE BED SHALL BE PLACED ON CONCRETE. THE CONCRETE SHALL BE A MINIMUM OF 4" THICK.

CERAMIC TILE SHALL BE EPOXIED IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

ALL OTHER MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURES DETAILS OR INSTRUCTION.



FOR TILE OR BRICK PAVERS NO VERTICAL LIP OVER 1/8" (3 mm) IS ALLOWED.

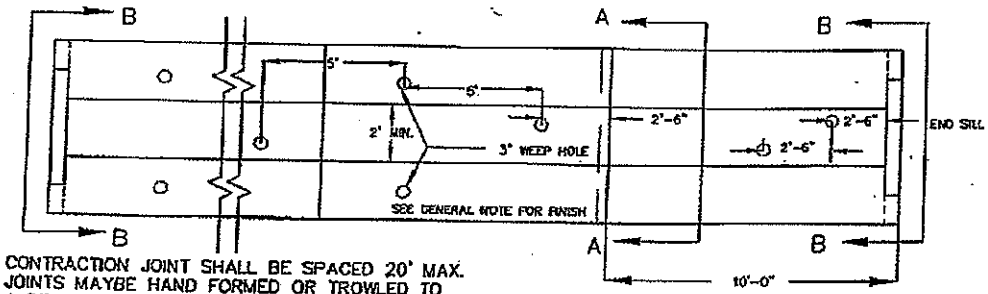
STATE	PROJECT NUMBER	PROJECT NO.	PARCEL NUMBER
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS

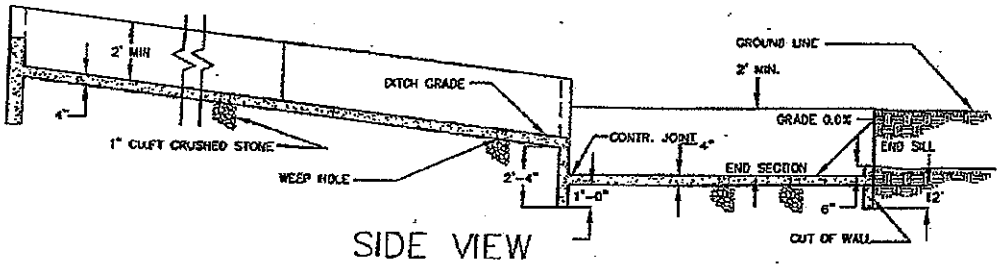
NO SCALE

3.8.16 D



CONTRACTION JOINT SHALL BE SPACED 20' MAX.
JOINTS MAYBE HAND FORMED OR TROWLED TO
A DEPTH EQUAL TO 1/4 OF DITCH PAVING THICKNESS

PLAN VIEW



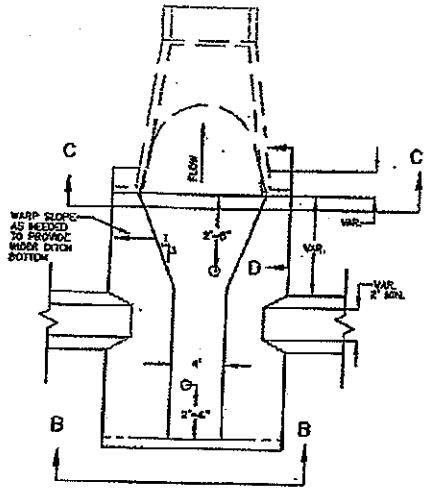
SIDE VIEW

NOTE: DROP END SECTION MUST BE CONSTRUCTED BEFORE ADJACENT UPSTREAM SECTION IS POURED. SEE CONSTR. JOINT IN SECTION A–A. DROP END SECTION MAY BE OMITTED AND END SECTION OF DITCH BURIED 3' BELOW NATURAL CHANNEL WHEN APPROVED BY THE ENGINEER.

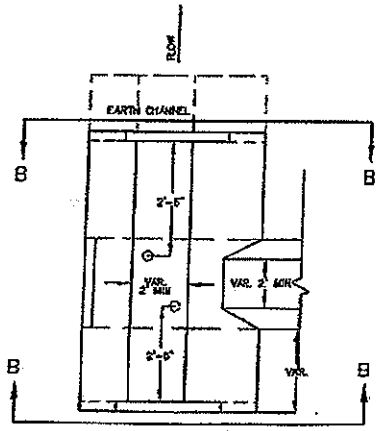
GENERAL NOTES:
1. SIDE SLOPES ON PAVED BERM AND SURFACE DITCHES SHALL BE 2:1 UNLESS MODIFIED ON CONSTRUCTION OF MEET FIELD CONDITIONS. WHEN PAVING IS PLACED IN NORMAL ROADWAY DITCH, THE SIDE SLOPES AND BOTTOM WILL CONFORM TO THOSE SHOWN ON THE ROADWAY TYPICAL SECTION.
2. WEEP HOLES SHALL BE OMITTED IN ALL SURFACE DITCHES OF THE TOP OF CUT SLOPES. WEEP HOLES SHALL BE REQUIRED IN BERM DITCHES AND ROADWAY DITCHES WHEN PAVED.
3. SURFACE FINISHED SHALL BE FLOATED SUFFICIENTLY TO COVER AGGREGATE WITH MORTAR.
4. EXPANSION JOINTS ARE REQUIRED WHERE PAVED DITCH CONNECTS TO OTHER CONCRETE STRUCTURES.

7

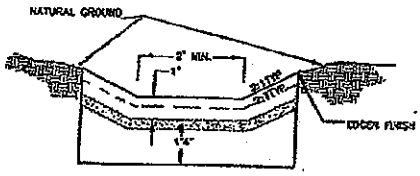
CITY OF CARTERSVILLE PUBLIC WORKS	PAVED DITCH CONSTRUCTION STANDARD	DATE:	MAR. '96	STANDARD NO.
		APPROVED:		3.8.17a



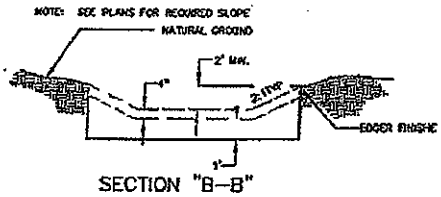
CONNECTING PAVED DITCH TO FLARED END SECTION OR HEADWALL (TYPICAL DETAIL)



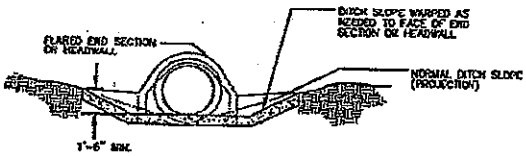
CONNECTING PAVED DITCH TO EARTH CHANNELL (TYPICAL DETAIL)



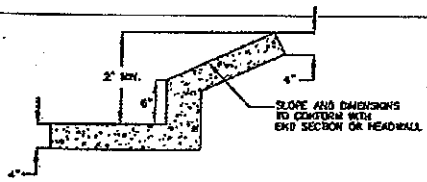
SECTION "A–A"



SECTION "B–B"

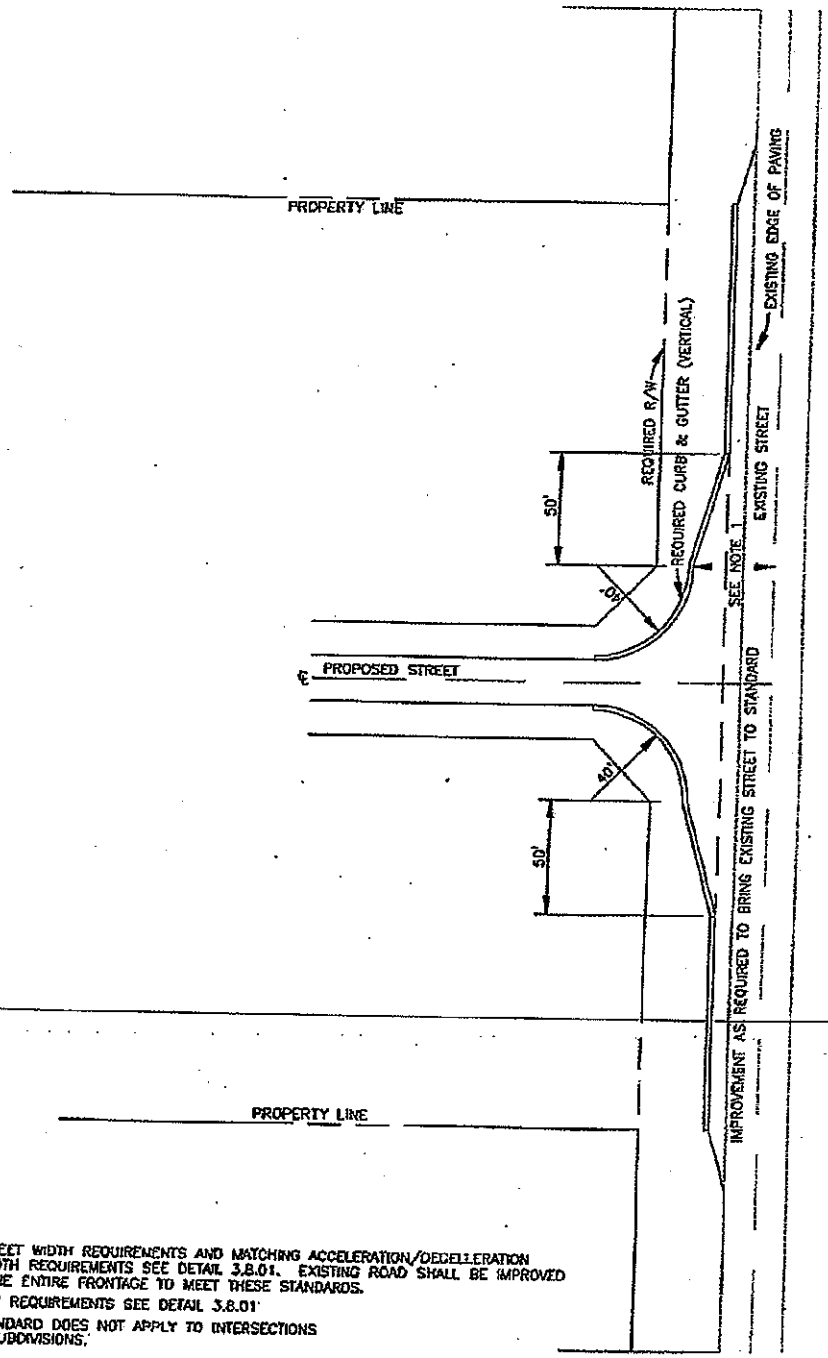


SECTION "C–C"



SECTION "D–D"

CITY OF CARTERSVILLE PUBLIC WORKS	PAVED DITCH CONSTRUCTION STANDARD	DATE:	MAR. '96	STANDARD NO. 3.8.17b
		APPROVED:		



NOTES:

1. FOR STREET WIDTH REQUIREMENTS AND MATCHING ACCELERATION/DECELLERATION LANE WIDTH REQUIREMENTS SEE DETAIL 3.8.01. EXISTING ROAD SHALL BE IMPROVED ALONG THE ENTIRE FRONTAGE TO MEET THESE STANDARDS.
2. FOR R/W REQUIREMENTS SEE DETAIL 3.8.01
3. THIS STANDARD DOES NOT APPLY TO INTERSECTIONS WITHIN SUBDIVISIONS.

CITY OF CARTERSVILLE
PUBLIC WORKS

ENTRANCE

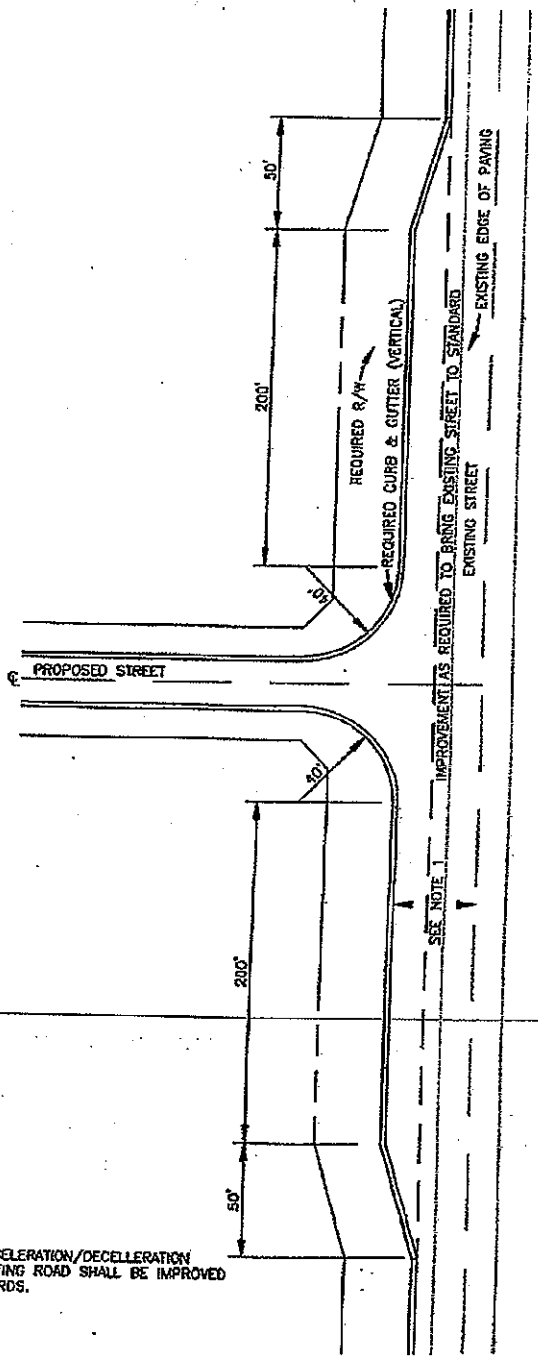
(RESIDENTIAL SUBDIVISION)

(LESS THAN 20 LOTS)

CONSTRUCTION STANDARD

DATE:	MAR. '96
REV.	JULY '99
APPROVED:	

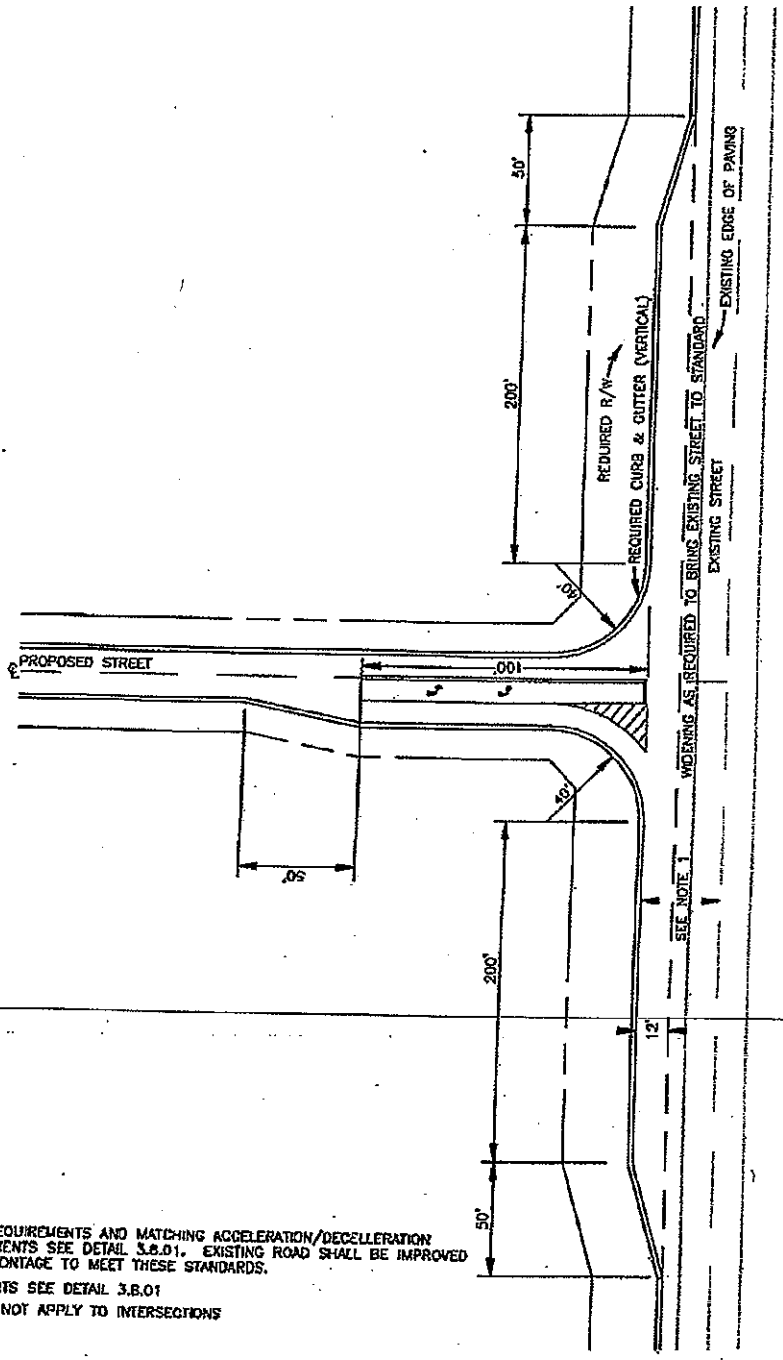
STANDARD NO. 3.8.18



NOTES:

1. FOR STREET WIDTH REQUIREMENTS AND MATCHING ACCELERATION/DECELLERATION LANE WIDTH REQUIREMENTS SEE DETAIL 3.8.01. EXISTING ROAD SHALL BE IMPROVED ALONG THE ENTIRE FRONTAGE TO MEET THESE STANDARDS.
2. FOR R/W REQUIREMENTS SEE DETAIL 3.8.01
3. THIS STANDARD DOES NOT APPLY TO INTERSECTIONS WITHIN SUBDIVISIONS.

CITY OF CARTERSVILLE PUBLIC WORKS	ENTRANCE (RESIDENTIAL SUBDIVISION) (20 – 200 LOTS) CONSTRUCTION STANDARD	DATE: MAR. '96 REV. JULY '99 APPROVED:	STANDARD NO. 3.8.19



NOTES:

1. FOR STREET WIDTH REQUIREMENTS AND MATCHING ACCELERATION/DECELLERATION LANE WIDTH REQUIREMENTS SEE DETAIL 3.8.01. EXISTING ROAD SHALL BE IMPROVED ALONG THE ENTIRE FRONTAGE TO MEET THESE STANDARDS.
2. FOR R/W REQUIREMENTS SEE DETAIL 3.8.01
3. THIS STANDARD DOES NOT APPLY TO INTERSECTIONS WITHIN SUBDIVISIONS.

CITY OF CARTERSVILLE
PUBLIC WORKS

ENTRANCE

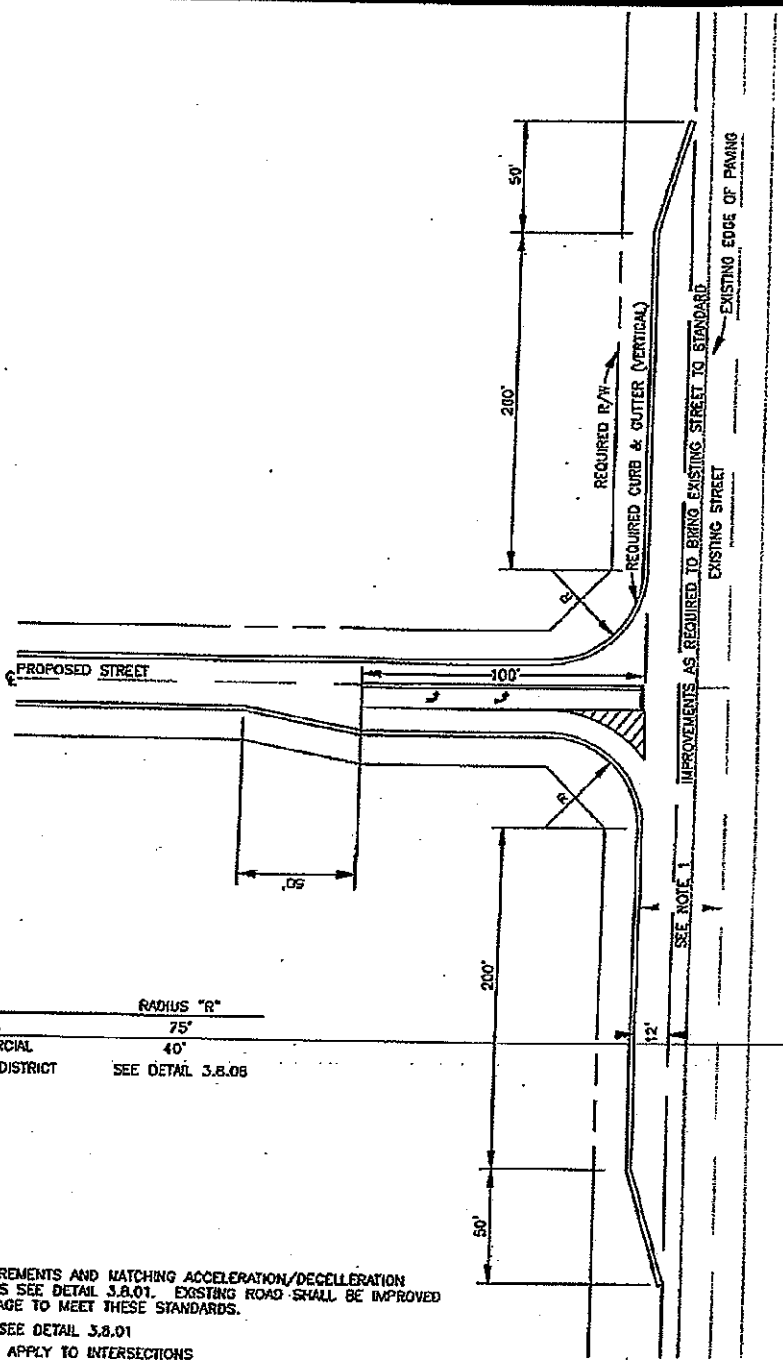
(RESIDENTIAL SUBDIVISION)

(OVER 200 LOTS)

CONSTRUCTION STANDARD

DATE:	MAR. '96
REV.	JULY '99
APPROVED:	

STANDARD NO. 3.8.20



SITE ZONING	RADIUS "R"
HEAVY INDUSTRIAL	75'
RETAIL – COMMERCIAL	40'
DOWNTOWN BUS. DISTRICT	SEE DETAIL 3.8.06

NOTES:

1. FOR STREET WIDTH REQUIREMENTS AND MATCHING ACCELERATION/DECELLERATION LANE WIDTH REQUIREMENTS SEE DETAIL 3.8.01. EXISTING ROAD SHALL BE IMPROVED ALONG THE ENTIRE FRONTAGE TO MEET THESE STANDARDS.
2. FOR R/W REQUIREMENTS SEE DETAIL 3.8.01
3. THIS STANDARD DOES NOT APPLY TO INTERSECTIONS WITHIN SUBDIVISIONS.

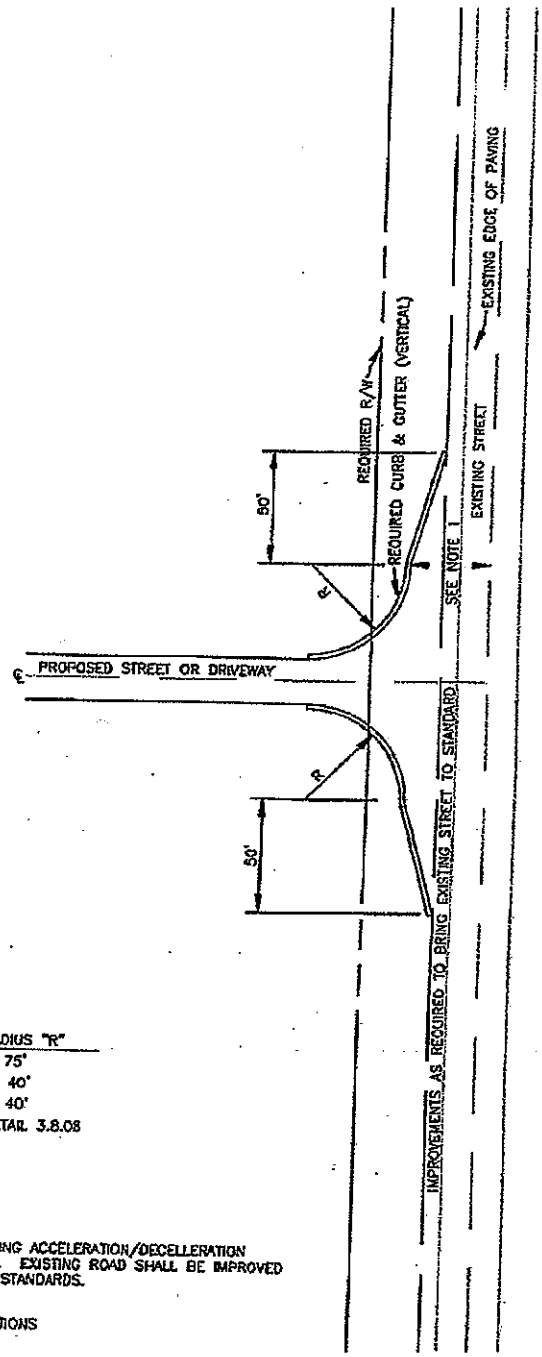
CITY OF CARTERSVILLE
PUBLIC WORKS

ENTRANCE
(COM./IND. SUBDIVISION)

CONSTRUCTION STANDARD

DATE:	MAR. '96
REV.	JULY '99
APPROVED:	

STANDARD NO. 3.8.21



ZONING OR USE	RADIUS "R"
HEAVY INDUSTRIAL	75'
RETAIL – COMMERCIAL	40'
MULTIFAMILY	40'
DOWNTOWN BUS. DISTRICT	SEE DETAIL 3.8.08

NOTES:

1. FOR STREET WIDTH REQUIREMENTS AND MATCHING ACCELERATION/DECELLERATION LANE WIDTH REQUIREMENTS SEE DETAIL 3.8.01. EXISTING ROAD SHALL BE IMPROVED ALONG THE ENTIRE FRONTAGE TO MEET THESE STANDARDS.
2. FOR R/W REQUIREMENTS SEE DETAIL 3.8.01
3. THIS STANDARD DOES NOT APPLY TO INTERSECTIONS WITHIN SUBDIVISIONS.

CITY OF CARTERSVILLE
PUBLIC WORKS

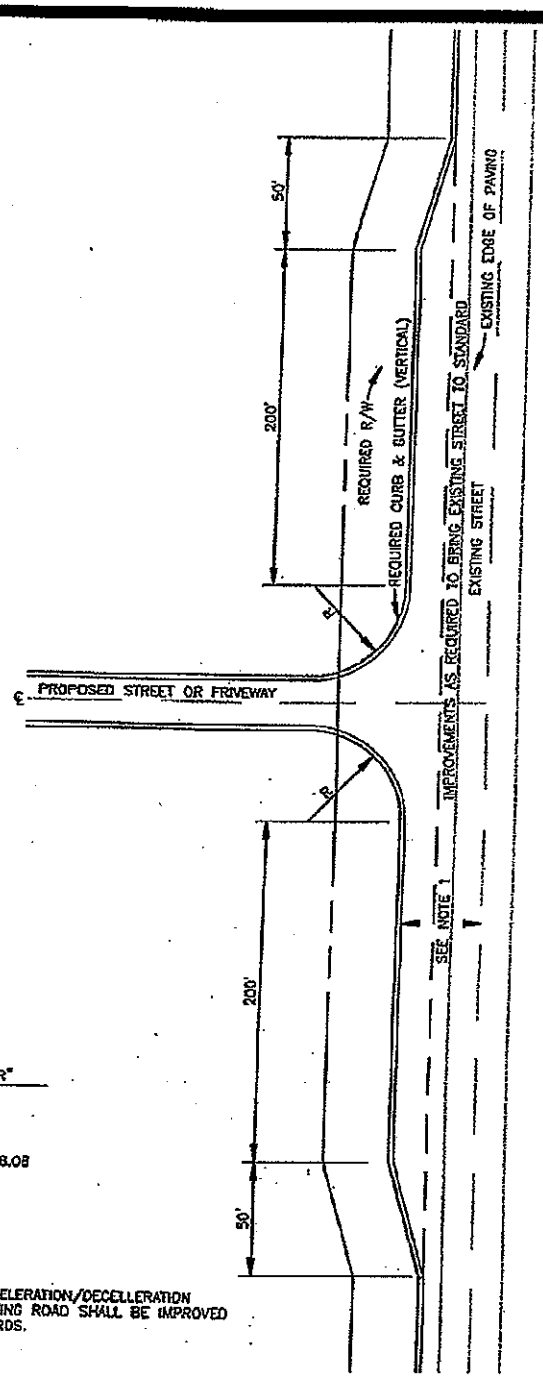
ENTRANCE

(COM./IND./MF DEVELOPMENT)
(MINOR COLLECTOR)

CONSTRUCTION STANDARD

DATE:	MAR. '96
REV.	JULY '99
APPROVED:	

STANDARD NO. 3.8.22



ZONING OR USE	RADIUS "R"
HEAVY INDUSTRIAL	75'
RETAIL – COMMERCIAL	40'
MULTIFAMILY	40'
DOWNTOWN BUS. DISTRICT	SEE DETAIL 3.8.08

NOTES:

1. FOR STREET WIDTH REQUIREMENTS AND MATCHING ACCELERATION/DECELLERATION LANE WIDTH REQUIREMENTS SEE DETAIL 3.8.01. EXISTING ROAD SHALL BE IMPROVED ALONG THE ENTIRE FRONTAGE TO MEET THESE STANDARDS.
2. FOR R/W REQUIREMENTS SEE DETAIL 3.8.01
3. THIS STANDARD DOES NOT APPLY TO INTERSECTIONS WITHIN SUBDIVISIONS.

CITY OF CARTERSVILLE
PUBLIC WORKS

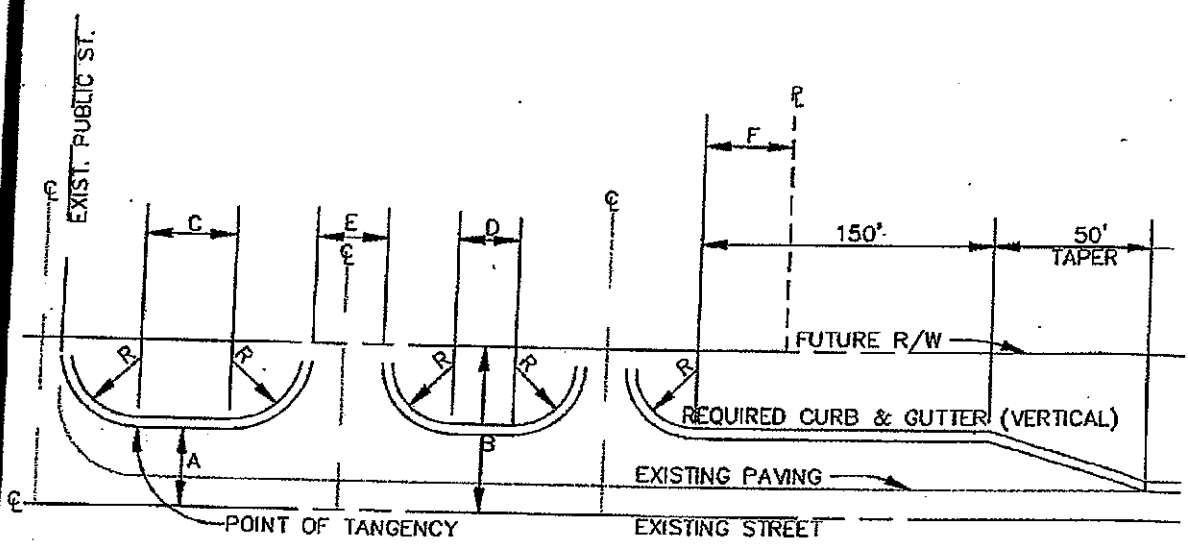
ENTRANCE

(COM./IND./MF DEVELOPMENT)
(MAJOR COLLECTOR OR ARTERIAL)

CONSTRUCTION STANDARD

DATE:	MAR. '96
REV.	JULY '99
APPROVED:	

STANDARD NO.
3.8.23



EXISTING STREET CLASSIFICATION	RADII "R"	"A"	"B"	"C"	"D"	1-LANE "E"	2-LANE "E"	"F"
ARTERIAL	25'	24'+	50'+	50'	40'	14'-18'	24'-30'	20'+
MAJOR COLLECTOR	20'	24'	40'+	50'	40'	↓	↓	20'
MINOR COLLECTOR	15'	24'	30'+	50'	40'	↓	↓	20'
LOCAL	10'	20'	30'	40'	20'	↓	↓	15'

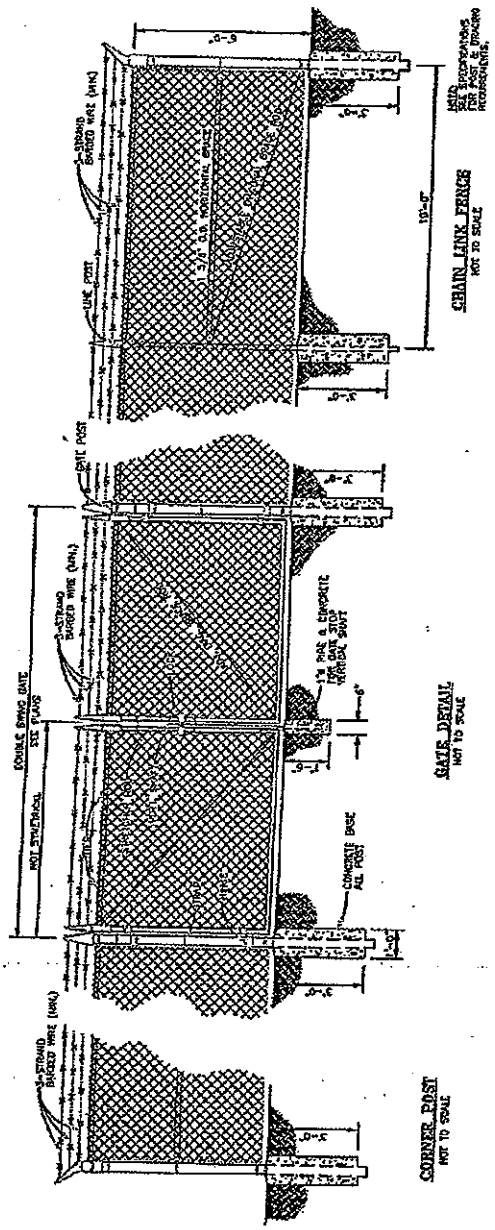
NOTE:

1. CURB AND GUTTER REQUIRED ON 50' TAPERS IF EXISTING STREET HAS CURB AND GUTTER

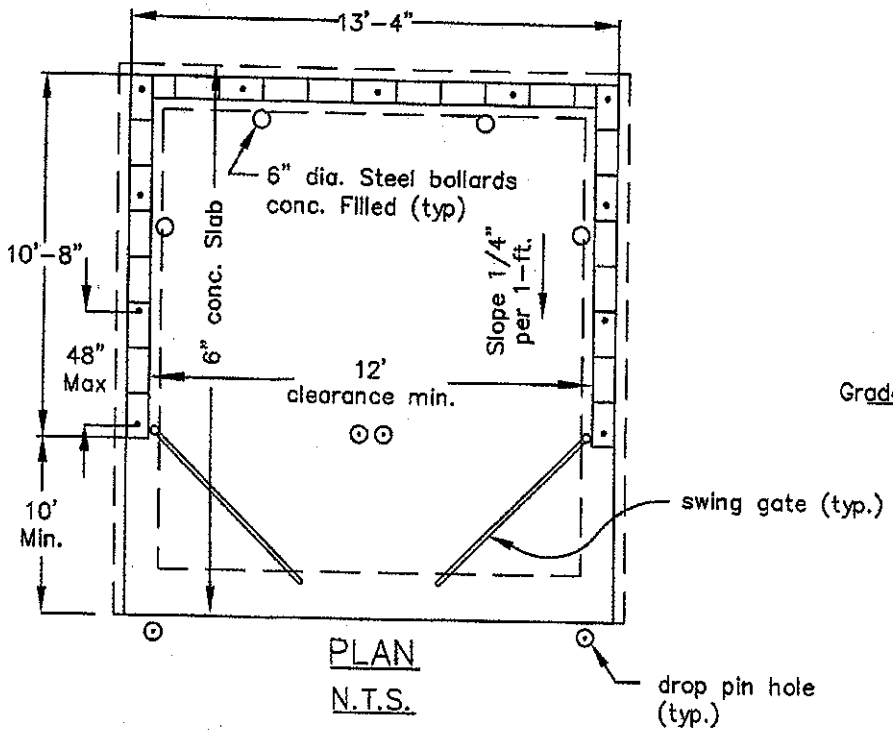
COMMERCIAL/INDUSTRIAL DRIVEWAY DETAIL

CITY OF CARTERSVILLE PUBLIC WORKS	COMMERCIAL/ INDUSTRIAL DRIVEWAY DETAIL CONSTRUCTION STANDARD	DATE: JULY '04		STANDARD NO. 3.8.24
		REV.		
		APPROVED: BCE		

LOC

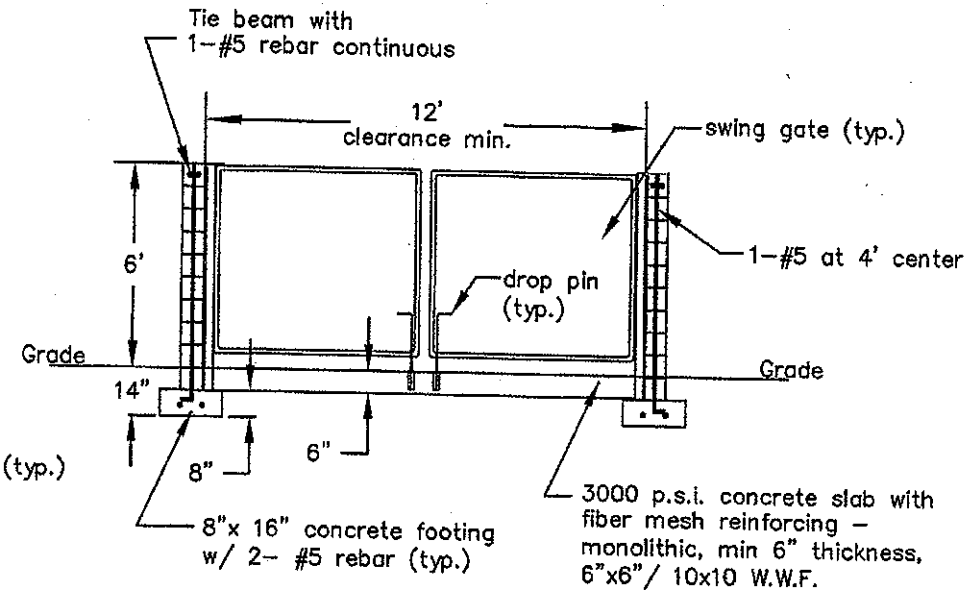


CITY OF CARTERSVILLE DEPARTMENT OF PUBLIC WORKS	SITE DETAILS	CHAIN LINK FENCE, CORNER POST & GATE 3.8.25



PLAN

N.T.S.

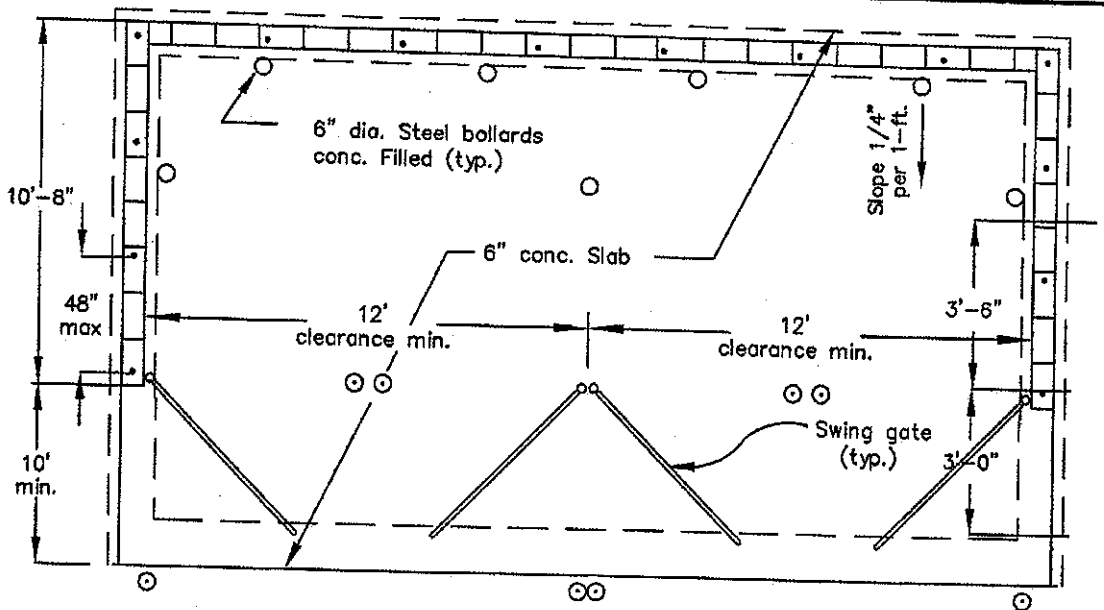


ELEVATION

N.T.S.

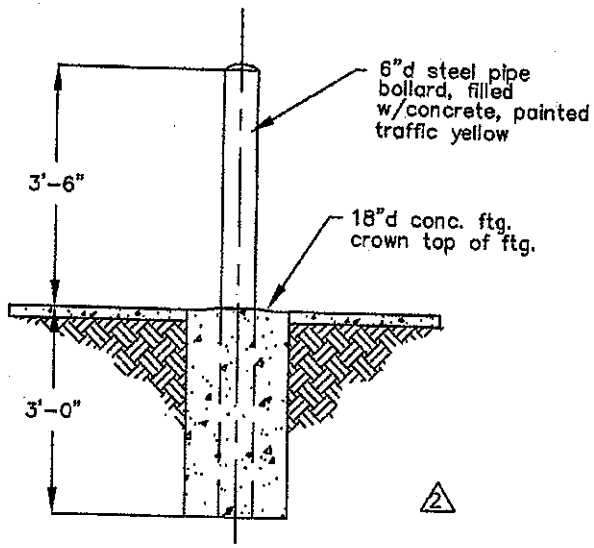
CITY OF CARTERSVILLE
PUBLIC WORKS

DATE	DESCRIPTION	APP.
DATE 12/12	DUMPSTER ENCLOSURE	
DRAWN BY BCE	SINGLE	3.8.26o



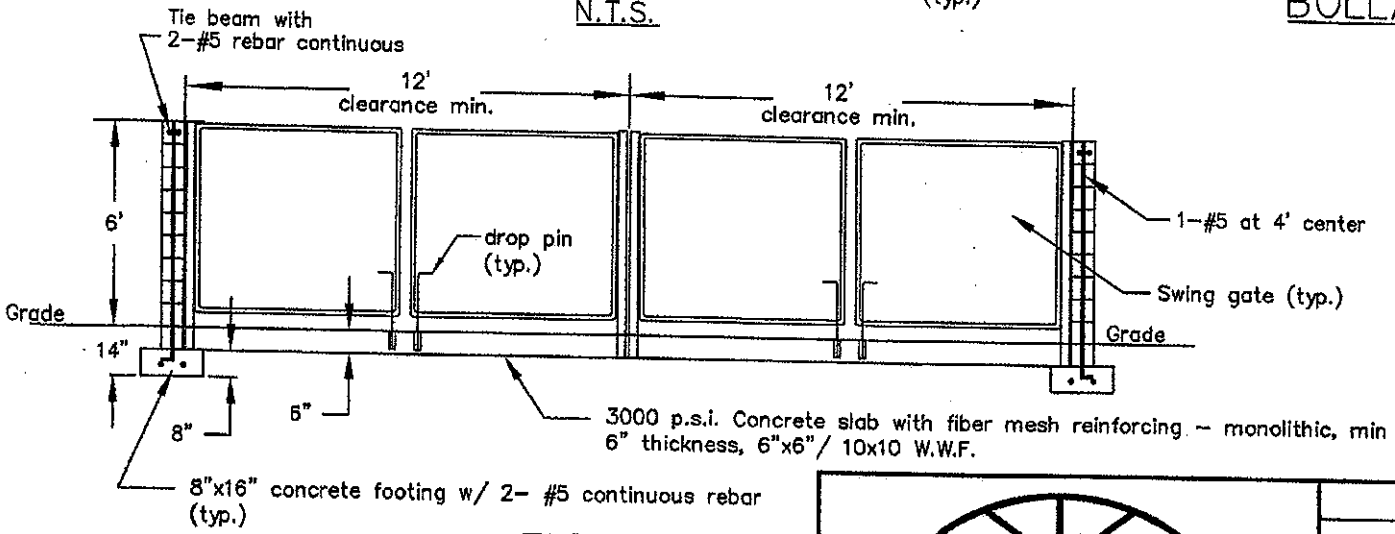
PLAN

N.T.S.



BOLLARD DETAIL

N.T.S.



ELEVATION

N.T.S.

CITY OF CARTERSVILLE
PUBLIC WORKS

DATE	DESCRIPTION	APP.
DATE 12/12	DUMPSTER ENCLOSURE	
DRAWN BY BCE	DOUBLE	3.8.26b

NOTES:

1.) WALLS

a.) New construction: maximum 6'–0' high and constructed of concrete block (8"x8"x16"). Materials used shall be consistent with those used in the construction of and architectural style of the principal building.

b.) Existing: maximum 6'–0' high replacement materials can be made of the same materials as long as they are made of approved opaque material.

2.) FOOTINGS
8"x16" concrete w/2– #5 continuous rebar imbedded.

3.) CONCRETE SLAB
Monolithic, min. 6" thickness w/imbedded 6"x6"/ 10x10 welded wire fabric (W.W.F.), 3000 P.S.I. with fiber mesh reinforcing.

4.) CONCRETE FILLED CELLS
With 1–#5 vertical rebar tied to footer steel at each corner and every 4' O.C.

5.) GATES
Constructed of min. 1–1/2" diameter galvanized tubular steel w/privacy–type slats inserted in galvanized steel mesh fabric, hinge–mounted on min. 3" diameter galvanized steel post. (Gates and post constructed and installed per applicable building code by licensed fence contractor).

6.) DROP PIN
1/2" dia. 18" long metal rod gate latch. Provide 3/4" dia. hole 6" into concrete for rods. In asphalt provide a 3/4" P.V.C. sleeve, 6" long, or equal.

7.) SOIL
Soil bearing capacity to be at least 2,500 P.S.F.

8.) BOLLARD
3'–6" high, 6" diameter steel pipe bollard filled with concrete, painted traffic yellow, imbedded 3'–0" deep in 18" concrete foundation. (See Detail)

CONCRETE MASONRY WALL CONSTRUCTION

Materials, construction and quantity control of masonry shall be in accordance with Uniform Building Code (UBC), Chapter 24. General conditions and construction requirements shall be applied as specified in UBC, Section 2404 (f), during grouted masonry work.

1. All reinforcing steel shall be deformed bars conforming to ASTM A–615, Grade 60. Vertical reinforcement shall be placed in the center of the masonry cell, and shall be held in position at the top and bottom.

2. If a slab dowel does not line–up with a vertical core, it shall not be sloped more than one horizontal in six verticals (1:6).

3. Horizontal wall reinforcement shall be standard truss type DUR–O–WALL (or equivalent) at 16' o.c..

4. Hollow Load–bearing Concrete Masonry Units shall be normal weight conforming to ASTM C–90, with a minimum compressive strength of 1,900 PSI.

5. Mortar shall be type M or S, in accordance with ASTM C–270. Place all masonry in running bond with 3/8" mortar joints. Provide complete coverage face shell mortar bedding, horizontal and vertical.

6. Coarse grout shall conform to ASTM C–476, with a maximum aggregate size of 3/8", 8" to 10" slump, and a minimum compressive strength of 2,500 PSI at 28 days.

7. Minimum 3" X 3" clean–out holes (saw–cut) are required at the bottom course of all cells to verify grout placement. Clean–outs shall be sealed after masonry inspection–provided in accordance with ACI 531–4.6, and before grouting.

8. Prior to grouting, the grout space shall be clean, with no mortar projections greater the ½", mortar droppings or other foreign material. All cells shall be in vertical alignment, and shall solidly be filled with coarse grout as specified.

9. During placing, grout shall be consolidated with flexible cable vibrator. First grout pour shall be stopped a minimum of 1 – 1/2" below the top of the middle bond beam masonry.

CITY OF CARTERSVILLE
PUBLIC WORKS

DATE	DESCRIPTION	APP.
DATE 12/12	DUMPSTER ENCLOSURE	
DRAWN BY BCE	NOTES	3.8.25c