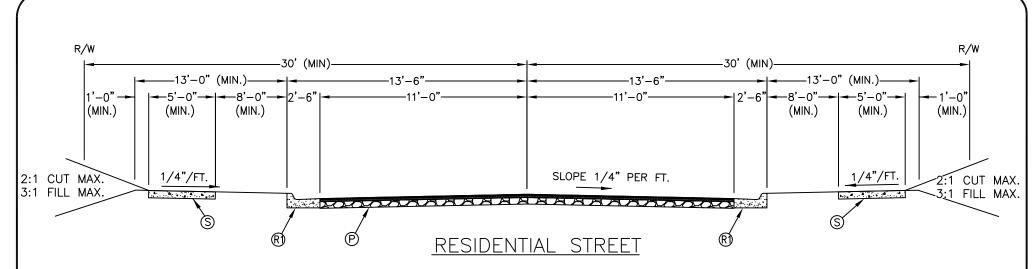
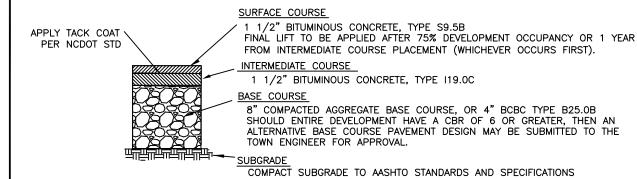
TOWN OF GRANITE QUARRY

TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL



NOTES:

- AN ALTERNATIVE PAVEMENT DESIGN MAY BE REQUIRED BASED ON SPECIFIC TRAFFIC PARAMETERS.
- ALL DIMENSIONS NOTED AS MINIMUMS ARE SUBJECT TO STANDARDS REQUIRED BY TOWN OF GRANITE QUARRY DEVELOPMENT ORDINANCE.



KFY

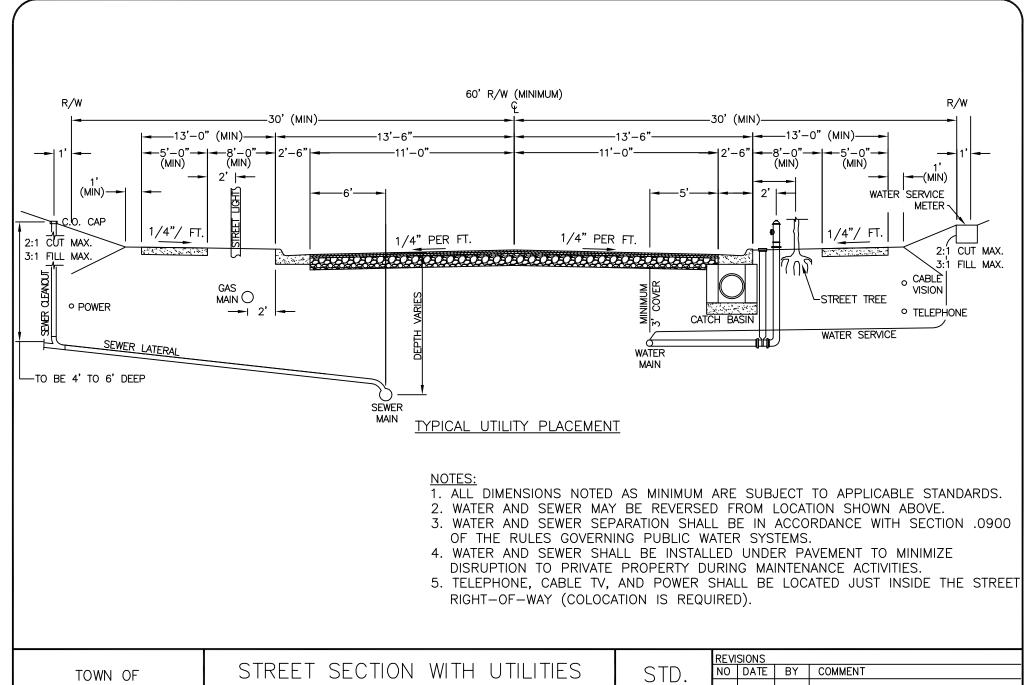
- (R) 2'-6" CURB AND GUTTER
- (S) 4" CONCRETE SIDEWALK
- (P) TYPICAL PAVEMENT SECTION

NOT TO SCALE

TOWN OF GRANITE QUARRY, NC STREET SECTION 60' (MIN.) RIGHT-OF-WAY

TYPICAL MINIMUM PAVEMENT SECTION (MINIMUM)

STD. 1.01 REVISIONS
NO DATE BY COMMENT
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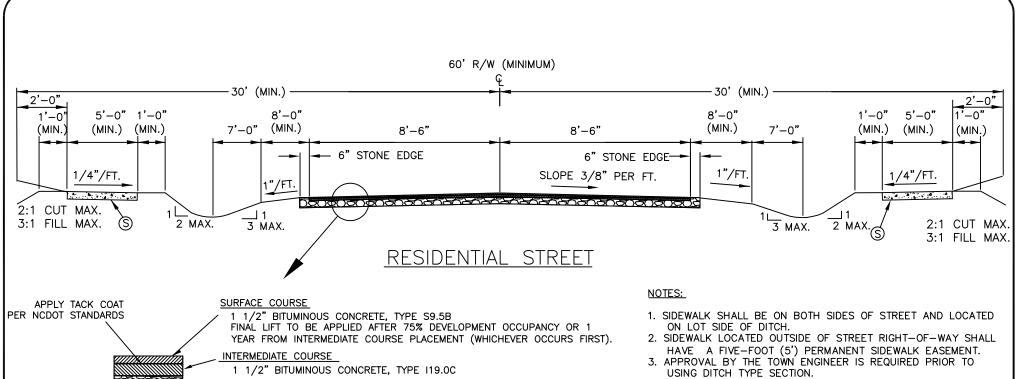
TOWN OF SIRELI SE GRANITE QUARRY, NC 60' (MIN

STREET SECTION WITH UTILITIES 60' (MIN.) RIGHT-OF-WAY

STD.

NO DATE BY COMMENT

1.02



BASE COURSE

8" COMPACTED AGGREGATE BASE COURSE, OR 4" BCBC TYPE B25.0B SHOULD ENTIRE DEVELOPMENT HAVE A CBR OF 6 OR GREATER, THEN AN ALTERNATIVE BASE COURSE PAVEMENT DESIGN MAY BE SUBMITTED TO THE TOWN ENGINEER FOR APPROVAL.

SUBGRADE

COMPACT SUBGRADE TO AASHTO STANDARDS AND SPECIFICATIONS

TYPICAL MINIMUM PAVEMENT SECTION

(SEE NOTE 4.)

KFY

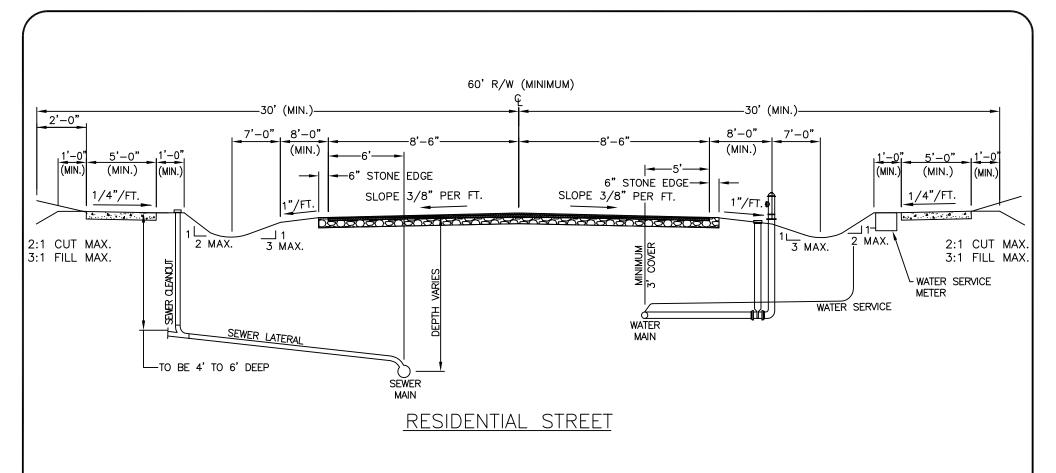
4" CONCRETE SIDEWALK

- 4. AN ALTERNATIVE PAVEMENT DESIGN MAY BE REQUIRED BY TOWN/NCDOT BASED ON SPECIFIC TRAFFIC PARAMETERS.
- 5. ONE-WAY STREETS MAY REDUCE RIGHT-OF-WAY TO 45' (MIN.) AND PAVEMENT WIDTH TO 12'-0", WITH ALL OTHER DIMENSIONS IN EFFECT, UPON APPROVAL BY TOWN PLANNING, ZONING & SUBDIVISION ADMINISTRATOR.

NOT TO SCALE

TOWN OF

RESIDENTIAL STREET GRANITE QUARRY, NC DITCH TYPE STREET TYPICAL SECTION STD. 1.03 REVISIONS NO DATE BY COMMENT



NOTES:

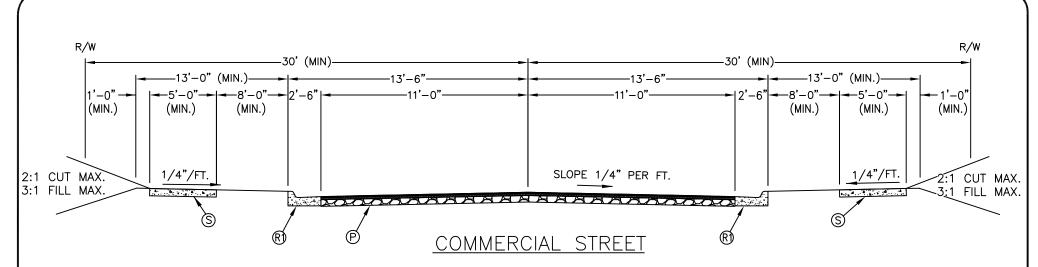
- 1. ALL DIMENSIONS NOTED AS MINIMUM ARE SUBJECT TO APPLICABLE STANDARDS.
- 2. WATER AND SEWER MAY BE REVERSED FROM LOCATION SHOWN ABOVE.
- 3. WATER AND SEWER SEPARATION SHALL BE IN ACCORDANCE WITH SECTION .0900 OF THE RULES GOVERNING PUBLIC WATER SYSTEMS.
- 4. WATER AND SEWER SHALL BE INSTALLED UNDER PAVEMENT TO MINIMIZE DISRUPTION TO PRIVATE PROPERTY DURING MAINTENANCE ACTIVITIES.
- 5. TELEPHONE, CABLE TV, AND POWER SHALL BE LOCATED JUST INSIDE THE STREET RIGHT-OF-WAY (COLOCATION IS REQUIRED).

TOWN OF GRANITE QUARRY, NC

RESIDENTIAL STREET WITH UTILITIES DITCH TYPE STREET TYPICAL SECTION

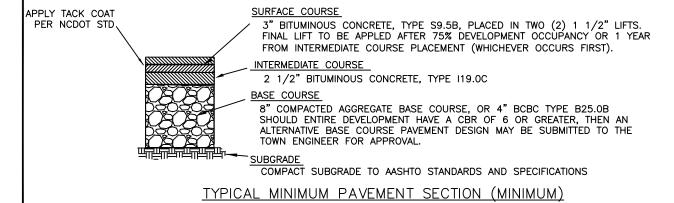
STD. 1.04

REVISIONS				
NO	DATE	BY	COMMENT	



NOTES:

- AN ALTERNATIVE PAVEMENT DESIGN MAY BE REQUIRED BASED ON SPECIFIC TRAFFIC PARAMETERS.
- ALL DIMENSIONS NOTED AS MINIMUMS ARE SUBJECT TO STANDARDS REQUIRED BY TOWN OF GRANITE QUARRY DEVELOPMENT ORDINANCE.



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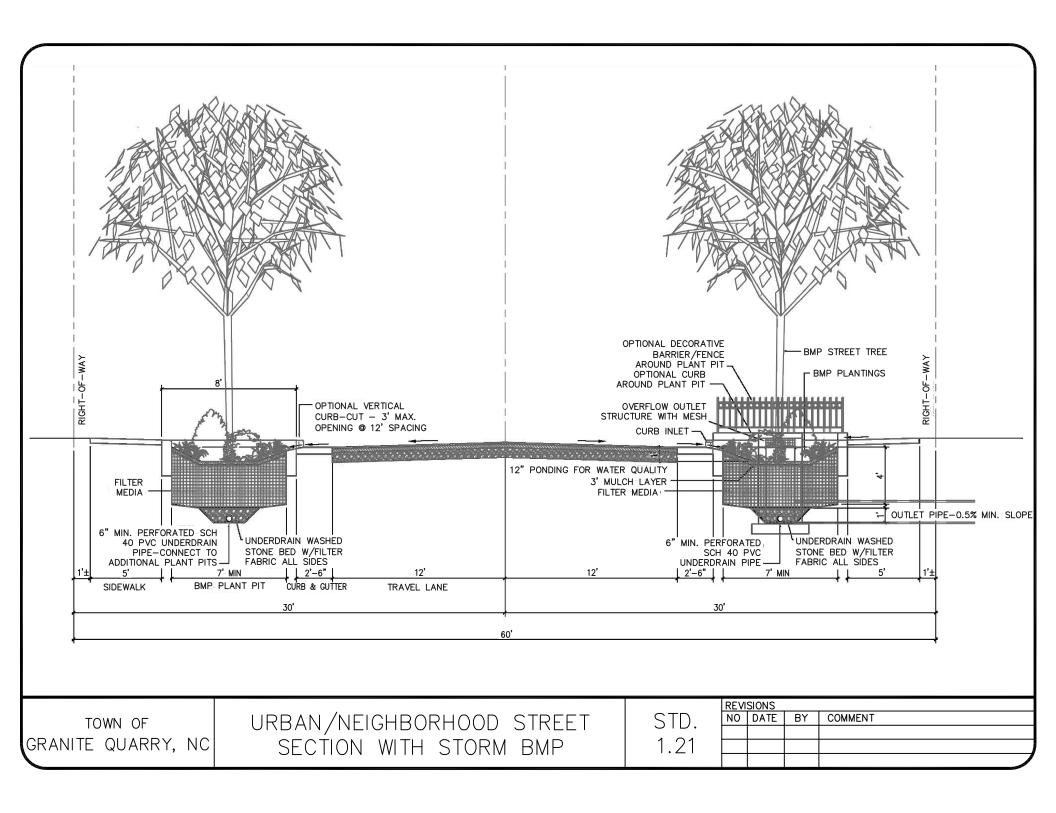
- (R) 2'-6" CURB AND GUTTER
- (S) 4" CONCRETE SIDEWALK
- (P) TYPICAL PAVEMENT SECTION

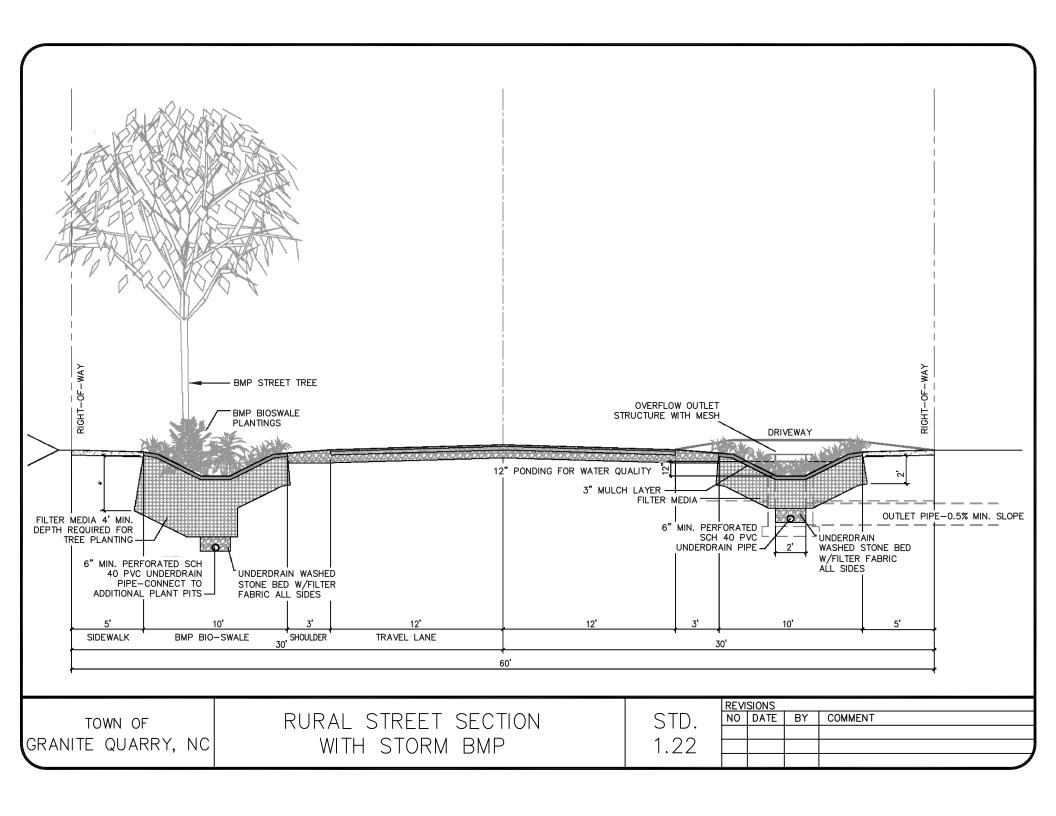
NOT TO SCALE

TOWN OF GRANITE QUARRY, NC COMMERCIAL STREET SECTION 60' (MIN.) RIGHT-OF-WAY

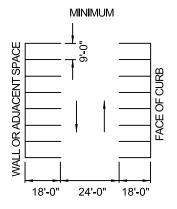
STD. 1.05

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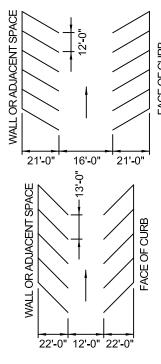




PARKING ANGLE 90° (TWO WAY OPERATION ONLY)



PARKING ANGLE 60° (ONE WAY OPERATION ONLY)



NOTES:

- 1. FOR ACCESSIBLE PARKING STANDARDS/SIGNAGE SEE ADDITIONAL STANDARDS.
- 2. PAVEMENT MARKINGS SHALL BE 4" WHITE PAINT.
- 3. ALTERNATIVE PARKING ANGLES, AISLE WIDTHS, AND OPERATION (TWO-WAY ANGLED PARKING OR REVERSE-ANGLE PARKING) WILL BE CONSIDERED ON A CASE-BY-CASE BASIS.

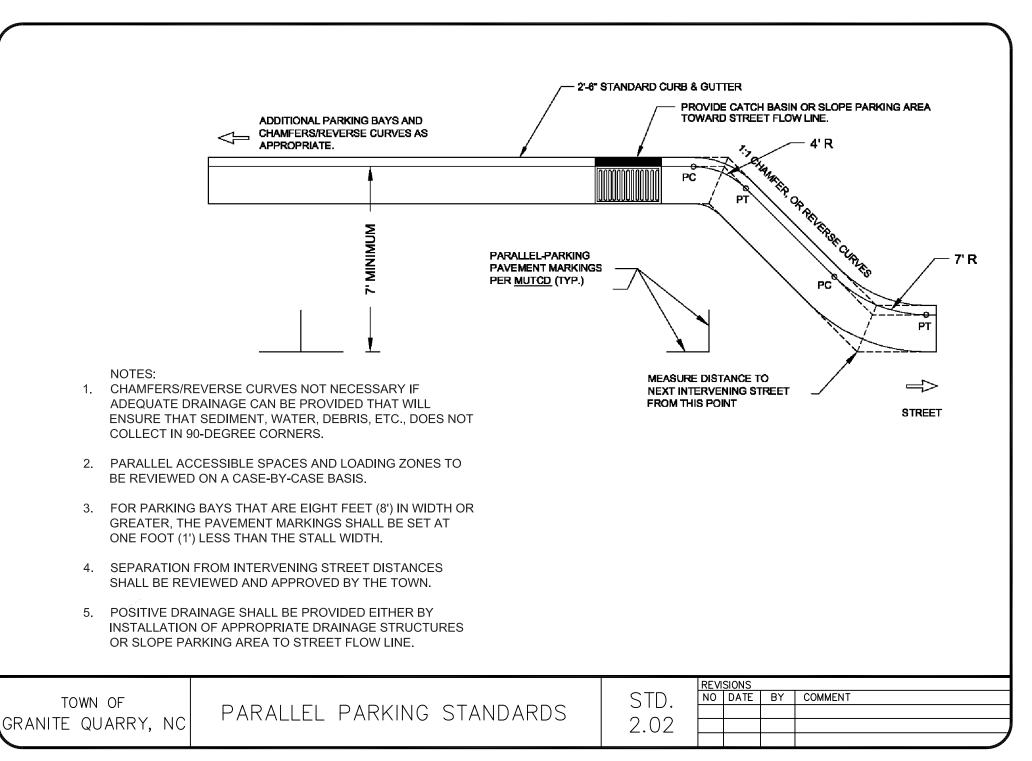
PARKING ANGLE 45° (ONE WAY OPERATION ONLY)

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TOWN OF		
GRANITE QUARRY,	NC	

PARKING STANDARDS

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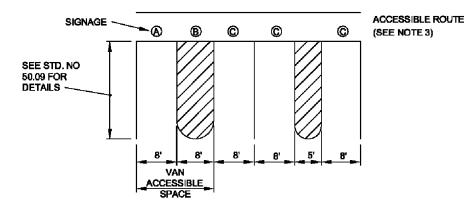
ACCESSIBLE PARKING REQUIREMENTS

TOTAL PARKING SPACES PROVIDED	MINIMUM NUMBER OF ACCESSIBLE SPACES SPACES REQUIRED	MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED TO BE VAN ACCESSIBLE
1 TO 25	1	1
26 TO 50	2	1
51 TO 75	3	1
76 TÓ 100	4	1
101 TO 150	5	1
151 TO 200	6	1
201 TO 300	7	1
301 TO 400	8	1
401 TO 500	9	2
501 TO 1000	2% OF TOTAL	1 IN EVERY 8 ACCESSIBLE SPACES
1001 AND OVER	20 PLUS 1 FOR EACH 100 OVER 1000	1 IN EVERY 8 ACCESSIBLE SPACES

SECTION 4.1.2 (5) OF THE AMERICANS WITH DISABILITIES ACT (ADA). SEE 4.1,2,(5) (d) FOR MEDICAL CARE FACILITIES

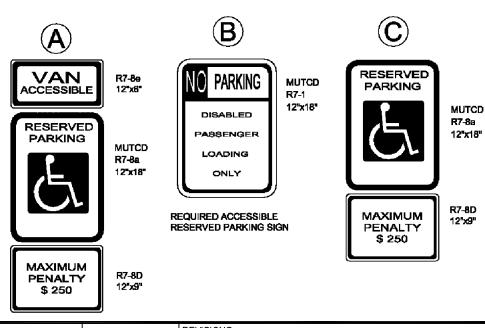
NOTES:

- ALL 12"x18" ACCESSIBLE SIGNS (R7-8a & R7-1) SHALL BE MOUNTED AT 7 FEET FROM GRADE TO BOTTOM EDGE OF SIGN FACE (MUTCD). MOUNTING HEIGHT CAN BE REDUCED TO 5 FEET IF PLACED IN AN AREA BETWEEN SIDEWALK AND BUILDING FACE IN WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
- REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD)
 U.S. DEPARTMENT OF TRANSPORTATION AND NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION SUPPLEMENT.
- 3. IF ACCESSIBLE ROUTE IS A RAISED SIDEWALK AREA, THEN RAMPS ARE REQUIRED AT LOADING ZONE AREA.



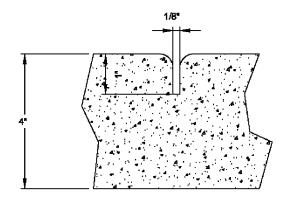
ONE OUT OF EVERY EIGHT (8)ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, IS REQUIRED TO BE VAN ACCESSIBLE.

PARKING SPACE PAVEMENT MARKINGS

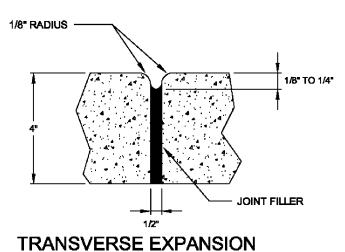


TOWN OF GRANITE QUARRY, NC ACCESSIBLE PARKING AND SIGNAGE STD. 2.11

REVI:	REVISIONS						
ИО	DATE	BY	COMMENT				



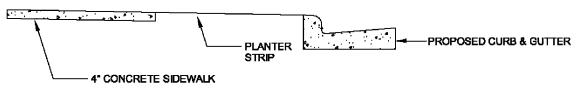
GROOVE JOINT IN SIDEWALK



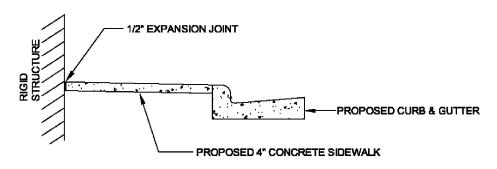
JOINT IN SIDEWALK

GENERAL NOTES:

- A GROOVE JOINT 1" DEEP WITH 1/8" RADII SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 45' INTERVALS NOT TO EXCEED 50' AND MATCHING EXPANSION/CONSTRUCTION JOINT IN ADJACENT CURB. A SEALED 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
- 2. SIDEWALK AT DRIVEWAY ENTRANCES TO BE 6" THICK.
- 3. WIDTH OF SIDEWALK ON ALL STREETS SHALL BE A MINIMUM OF 5'.
- CONCRETE COMPRESSIVE STRENGTH SHALL BE 3600 PSI. IN 28 DAYS.
- ZONING CONDITIONS MAY REQUIRE ADDITIONAL WIDTH SIDEWALKS WHICH SHALL SUPERSEDE THESE STANDARD DIMENSIONS SHOWN.



CONCRETE SIDEWALK WITH PLANTER STRIP



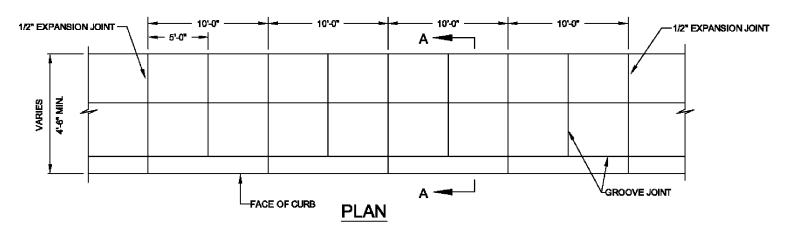
DETAILS SHOWING EXPANSION JOINTS

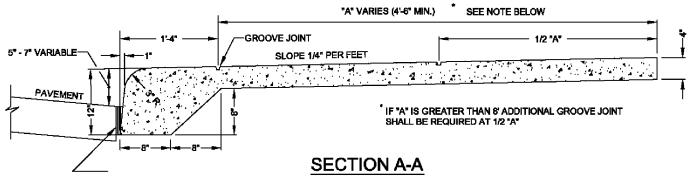
FOR CONCRETE SIDEWALK

TOWN OF GRANITE QUARRY, NC

CONCRETE SIDEWALK

STD. 3.01 REVISIONS
NO DATE BY COMMENT





TWO 1/2" THICK PIECES BITUMINOUS FIBER REQUIRED IF SUBBASE IS CONCRETE. MUST BE SEALED WITH APPROVED JOINT SEALER.

GENERAL NOTES:

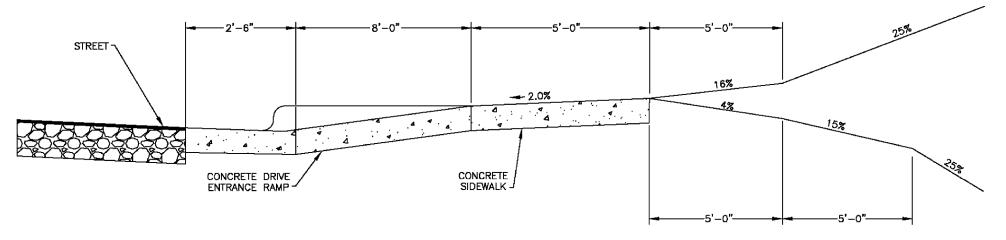
- A GROOVE JOINT 1" DEEP WITH 1/3" RADII SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5" INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 40" INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
- 2. ALL CONCRETE TO BE 3600 P.S.I. COMPRESSIVE STRENGTH.
- SEE STANDARD FOR DETAIL OF EXPANSION JOINT AND GROOVE JOINT.
- 4. SEE STANDARD FOR DETAIL OF DRIVEWAY.
- MONOLITHIC CURB AND SIDEWALK TO BE CONSTRUCTED ONLY WHEN APPROVED BY THE APPROPRIATE PUBLIC WORKS ENGINEER.

TOWN OF GRANITE QUARRY, NC

MONOLITHIC CURB AND SIDEWALK

STD. 3.02 REVISIONS

NO DATE BY COMMENT

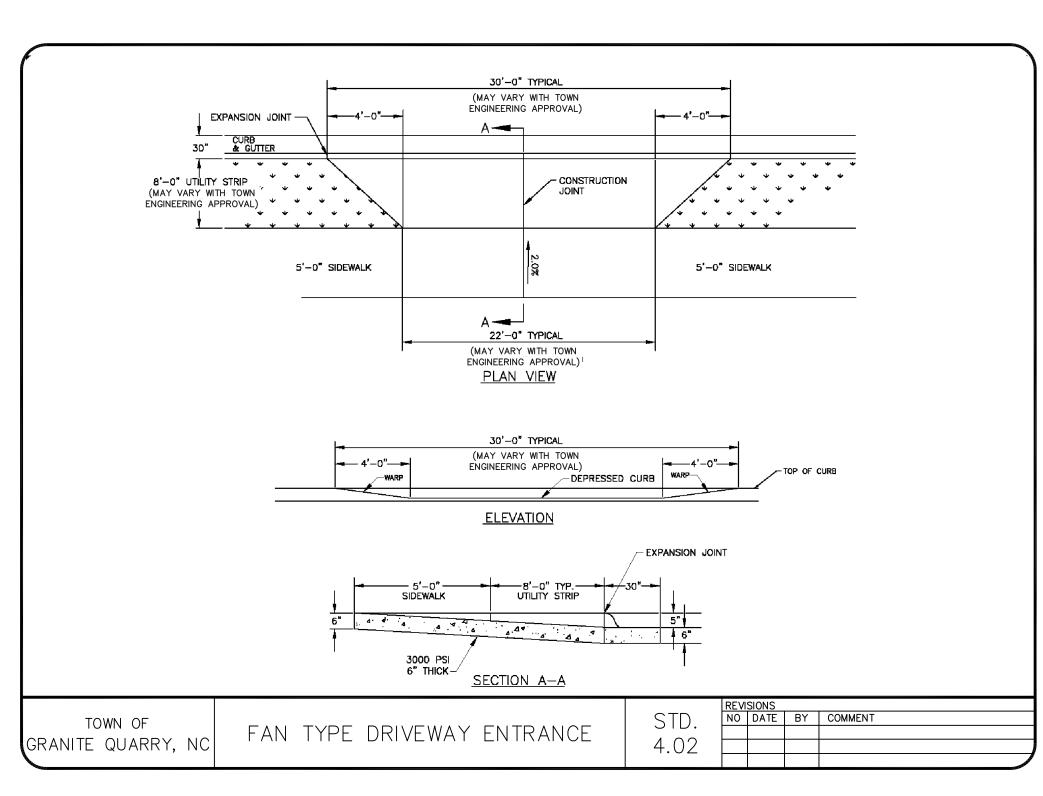


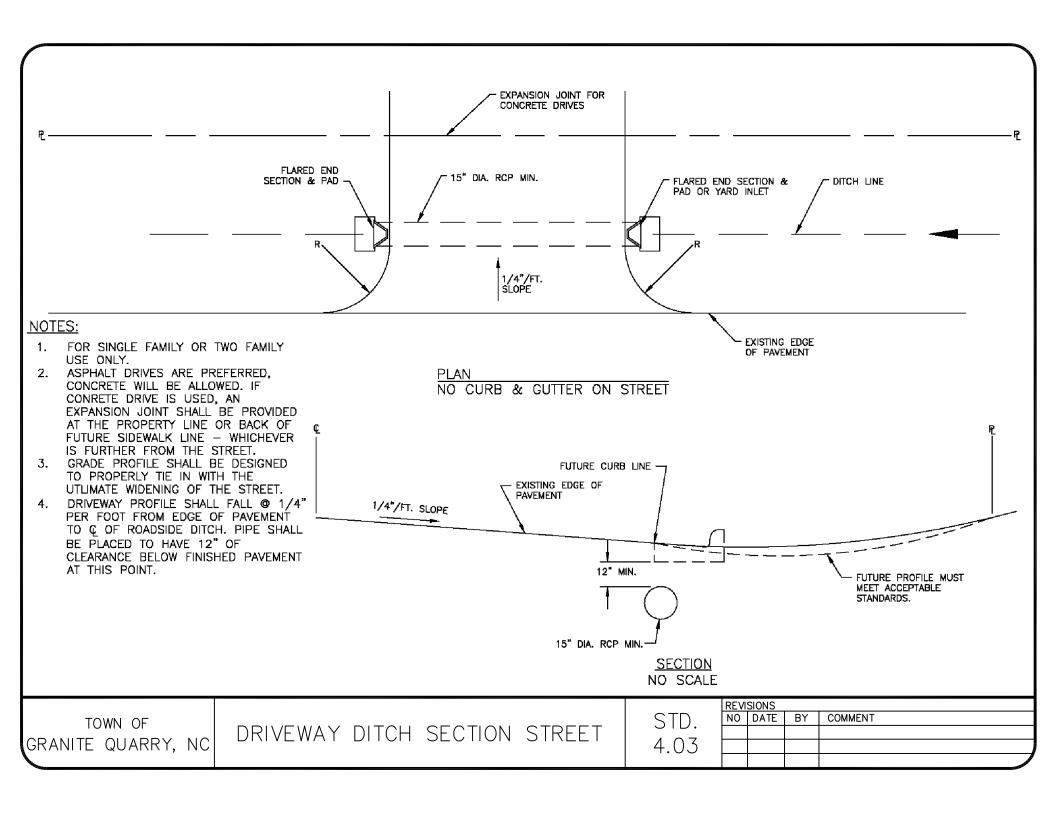
NOTE:

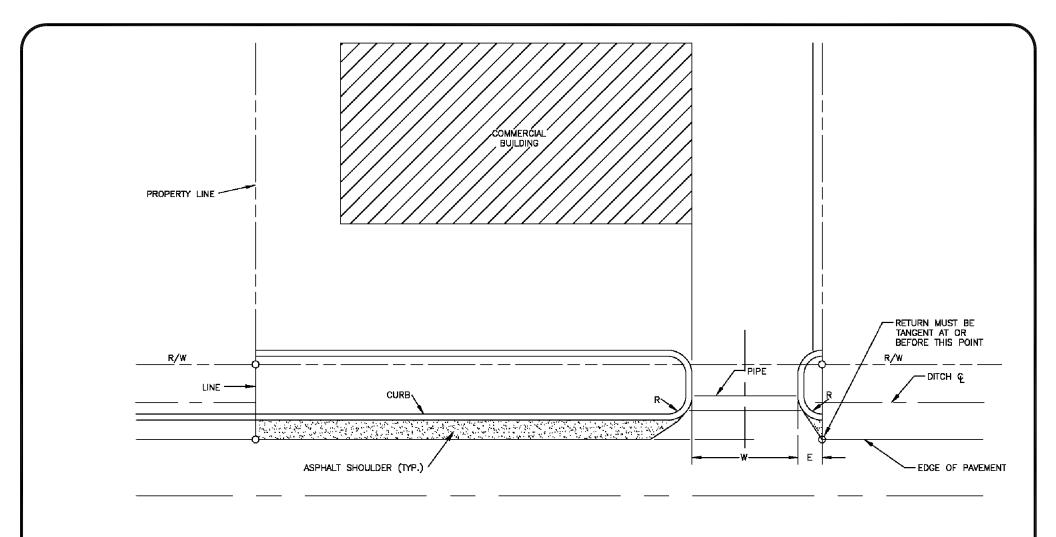
GRADES ARE SHOWN FOR SINGLE FAMILY & TWO FAMILY LOTS ONLY. COMMERCIAL TYPE USES MUST FLATTEN GRADES ACCORDINGLY FOR HIGHER VOLUMES OF TRAFFIC, ACCORDING TO THE TOWN ENGINEER'S DIRECTION.

NOT TO SCALE

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	DRIVEWAY GRADES	1 01				
GRANITE QUARRY, NC	DINIVETITION (DEC	4.01				







1. R - 10' MIN., 30' MAX.

E - 10' MIN.

W - ONE WAY: 12' MIN., 20' MAX. - TWO WAY: 20' MIN., 36' MAX.

2. ALL RADII ARE TO BACK OF CURB.

NOT TO SCALE

TOWN OF GRANITE QUARRY, NC COMMERCIAL SINGLE DRIVEWAY
DITCH SECTION

STD. 4.04

REVI	SIONS		
NO	DATE	BY	COMMENT

