



CITY OF RAPID CITY

Public Works Department

300 Sixth Street
Rapid City, SD 57701-2724
Telephone: (605) 394-4165 FAX: (605) 394-6636

MEMORANDUM

Date: November 12, 2004

To: Public Works Committee

From: Theodore J. Vore, Acting Director of Public Works

Re: Construction in the Public Right-of-Way at the Rapid City Congregation of Jehovahs, 1111 Oriole Drive, Rapid City, SD

Attachments: Photo's numbered 1 through 15 taken on November 9, 2004. Application for a Permit to Work in the Right of Way dated June 25, 2004.

Per the request of the Public works Committee on November 9, 2004, the following is a listing of violations to the Standard Specifications for Public Works Construction, 2004 Edition at the 1111 Oriole Drive address.

- | Photo # | Violation |
|---------|--|
| 1. | The driveway was not constructed to City Standard 60-1, Reinforced Portland Cement Concrete Fillet & Pan. No pan was constructed to contain the runoff. Drainage will be along the concrete and asphalt joint. (See Right-of-Way Permit) |
| 2. | West driveway constructed without pan and fillets also. |
| 3. | Sidewalk is uneven - curb has waves in it. |
| 4. | Curb is only 24" wide - City Standard is 32" wide. (See the Curb & Gutter Detail 60-2 attached to the Permit to work in the Public Right-of-Way.) |
| 5. | Waves in the curb - no sealant between the curb and the sidewalk. |
| 6. | Curb drains to asphalt edge - does not contain the runoff. (See Curb & Gutter Detail 60-2 in the Right-of Way Permit) |



EQUAL OPPORTUNITY EMPLOYER

7. Curb is a non-standard width - poor workmanship. This section of curb had a call for inspection of the curb forms. Growth Management inspected and accepted the forms - the width was not noticed at this time. The final inspection was not approved due to workmanship and the non-standard width of the Curb & Gutter.
8. The saw cut joints are not deep enough (approximately 1 to 1 $\frac{1}{2}$ ' deep) See the following photos.
9. Random crack due to joints not being cut deep enough or cut after the concrete setup too long.
10. Another uncontrolled crack.
11. Saw joint incomplete - causing uncontrolled cracks.
12. Poor transition new to old.
13. Handicap Ramp curb taper for curbside sidewalk needs to be 6 feet long to meet ADA and the City of Rapid City's criteria. These are about 1 foot long.
14. Step in sidewalk - should meet the elevation at the back of the curb.
15. Sidewalk got rained on - poor finish.

In summary, only one section of curb was called in to Growth Management to schedule the concrete form inspection. This is required and is stated on the Permit to Work in the Public Right-of-Way. That section of curb is not of acceptable construction. The permit taken out on June 25, 2004 was requested for driveways and Curb & Gutter. Sidewalk was never permitted.

WEST



1



WEST

3



NEEDS
SEALED







11.9.09 PUL

E051



8



9



10

10





Worth

12



13



14



APPLICATION FOR PERMIT TO WORK IN RIGHT OF WAY

City of Rapid City, Public Works Department

DRIVEWAY APPROACH

1111 ORIOLE DR.

Date 6.25.04

- Residential Commercial New Replacement
 Driveway will serve a single property Driveway will be shared w/adjacent property

Is the property currently accessed by one or more approaches? No Yes (current number) _____

- Access requested onto a local or residential street (Street Name) ORIOLE DR.
 Access requested onto a collector or arterial street (Street Name) _____

If access is requested onto a collector or arterial street, this application must be accompanied by 1) a site plan & vicinity map drawn to scale, meeting standards for a commercial building permit, and 2) an application for an Access Permit to be issued by the Engineering Division.

Distance from:

Nearest property side lot line: 12' ± Nearest adjacent approach: _____ ?

Nearest intersection (corner lot only): 2 Nearest approach opposite side of street: _____ ?

Sight obstructions (describe) 2

Setback distance (property line to garage): NA No. of garage stalls (side-by-side): NA

Elevation at curb: NA. Garage finished floor elevation: _____

Approach width: 20' MAX / 10' MINIMUM Driveway length (curb to garage): _____

SIDEWALK

Date _____

- Residential Commercial New Replacement

Boulevard Width (curb to property line) & surfacing type: _____

Is sidewalk on adjoining properties at curbside or at property line? _____

- Sidewalk at curbside (5 ft. min. width) Sidewalk at property line (4 ft. min. width)

Proposed Width: _____ Total Length: _____ Height above curb: _____

OTHER

Date 6.25.04

Description: CURB & GUTTER ON SOUTH SIDE OF ORIOLE DRIVE. REMOVE & REPLACE.

CONDITIONS OF PERMIT: _____

CALL BUILDING INSPECTION (394-4157) 24 HOURS PRIOR TO NEED OF INSPECTIONS

NO STRUCTURES ALLOWED IN THE PUBLIC RIGHT OF WAY THIS PERMIT SHALL REMAIN AT THE JOB SITE

SEE ATTACHED DETAIL SHEETS

IMPORTANT

EXPIRATION

The permit issued for the work in this application shall expire by limitation and become null and void if the work is not commenced within 30 days from the date of issue, or if the work is suspended or abandoned for a period of 15 days after it has commenced. The permit shall become null and void if the work is not completed within 90 days from the date of issue.

* This application must be accompanied by a site plan and vicinity map.

PERMIT TO WORK IN THE RIGHT-OF-WAY CITY OF RAPID CITY

300 SIXTH STREET • RAPID CITY, SD 57701
(605) 394-4157

ID NO: 57051

PIN NO: 20 26 476 014

APPLICATION DATE: 06/25/2004

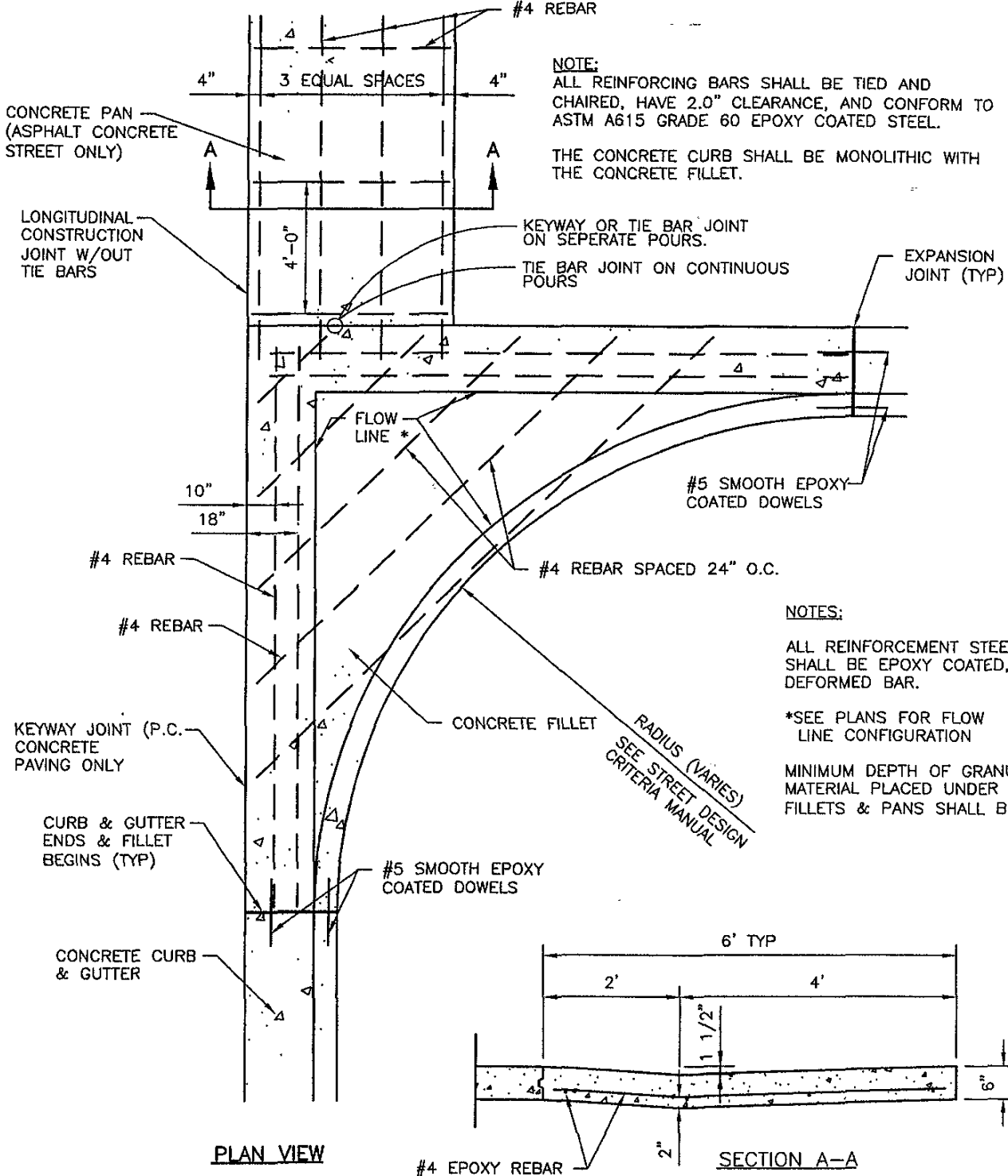
DATE ISSUED: 06/25/2004

APPROACH SIDEWALK OTHER
 PERMIT NUMBER: 2004CTBP1037
 RECEIPT NUMBER: _____

1111 ORIOLE DR,
 RECEIVED BY: *RLC*

PROPERTY INFORMATION	CONTRACTOR INFORMATION
LOT ADDRESS: 1111 ORIOLE DR OWNER NAME: RAPID CITY CONGREGATION OF JEHOVAHS & ADDRESS: 580 SEGER DR RAPID CITY, SD 57701 TEL: _____ LEGAL DESC: MORNINGSIDE BLK 7 LOT 1 REVISED ZONED: _____ ACRES: 2.260 SETBACKS: FRONT=00 SIDE=00 REAR=00 HEIGHT=00 EASEMENTS: FRONT=00 SIDE=00 REAR=00 ACCESS FROM: 331 COMM DRIVEWAY APPROACH PERMIT TYPE: COMM DRIVEWAY # OF BLDGS: _____ # OF UNITS: _____ # SQ FT: _____ PLAN #: _____ SIDEWALKS?: _____ APPEAL #: _____ DRAINAGE BASIN CODE: 10 APPEAL #: _____ TYPE OF CONSTRUCTION: _____ OCCUPANCY GROUP/DIV: _____ COMMENTS: COMM DRIVEWAY PVT SEWAGE?: _____ WATER SRC: UNKNOWN FLOOD PLAIN?: _____ FLOOD CODE: _____ MAP #: _____ FLOOD INS?: _____ EFF YEAR: _____	SEE APPLICANT SEE APPLICANT ADDRESS RAPID CITY, SD 57702 (605) _____
FEE INFORMATION	
ESTIMATED COST/ICBO VALUE: \$8,000 25.00 3217 ENG RTW	
APPLICANT INFORMATION	
NAME: JEHOVAH'S WITNESS ADDRESS: 1111 ORIOLE DR CITY/STATE: RAPID CITY, SD 57701 TEL: (605) 484-9739 RELATIONSHIP TO PROPERTY: <input type="checkbox"/> OWNER <input type="checkbox"/> CONTRACTOR <input type="checkbox"/> OWNERS REPRESENTATIVE <div style="text-align: center;"> READ REVERSE BEFORE SIGNING </div>	
<i>X Ernest E. Lundman</i> SIGNATURE OF APPLICANT	\$25.00 <<<< TOTAL <i>X Ernest E. Lundman</i> Responsible Party for Payment of All Fees <i>Randy J. Johnson</i> ISSUED BY
DATE: 6/25/04	DATE: 6/25/04

1111 ORIOLE DR.



NOTE:
 ALL REINFORCING BARS SHALL BE TIED AND CHAIRED, HAVE 2.0" CLEARANCE, AND CONFORM TO ASTM A615 GRADE 60 EPOXY COATED STEEL.
 THE CONCRETE CURB SHALL BE MONOLITHIC WITH THE CONCRETE FILLET.

NOTES:
 ALL REINFORCEMENT STEEL SHALL BE EPOXY COATED, DEFORMED BAR.
 *SEE PLANS FOR FLOW LINE CONFIGURATION
 MINIMUM DEPTH OF GRANULAR MATERIAL PLACED UNDER FILLETS & PANS SHALL BE 4".

PLAN VIEW

SECTION A-A

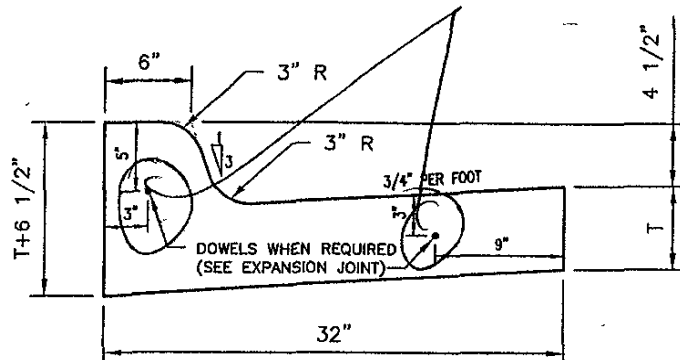
(ASPHALT CONCRETE STREET ONLY - FORM DRAINAGE CHANNEL IN PORTLAND CEMENT CONCRETE STREET PAVING)

G:\Cad Standards\LD\DDT\3\Drawings\Symbol Manager\City of Rapid City\Standard Details\2004 Edition\60-1.dwg, 5/12/2004 10:53:32 AM, Michael

CITY OF RAPID CITY PUBLIC WORKS DEPARTMENT

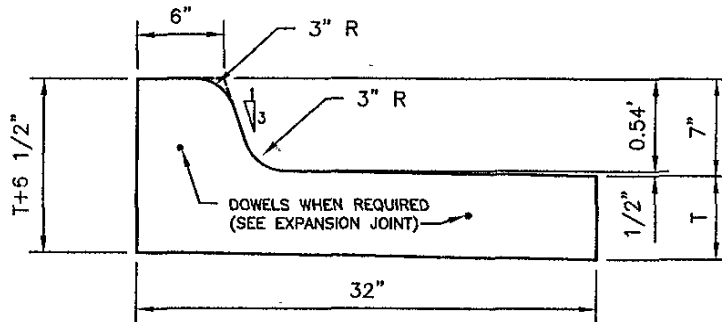
REINFORCED PORTLAND CEMENT
 CONCRETE FILLET & PAN

DATE: 11-20-03
 SEC. SHT.
 60-1

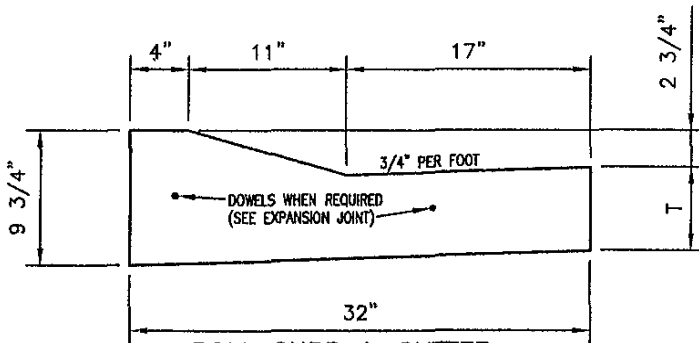


STANDARD CURB & GUTTER (TYPE B)

WHERE T IS EQUAL TO PAVEMENT THICKNESS OR 6", WHICHEVER IS GREATER

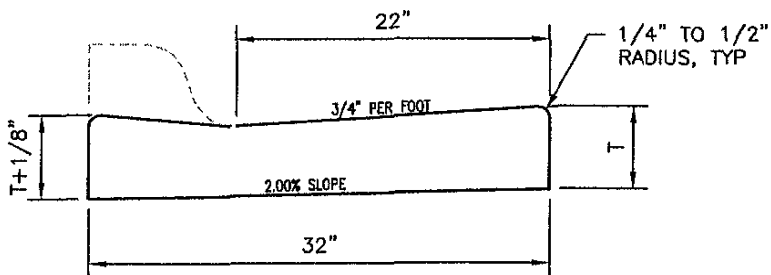


TILTED CURB & GUTTER (TYPE BL)



ROLL CURB & GUTTER

(WHEN APPROVED)



"P" GUTTER

NOTES:

ALL CURB & GUTTER SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 P.S.I. & AIR ENTRAINED $6\% \pm 1.5\%$ (4.5% TO 7.5%). ALL DESIGN GRADES ARE TOP OF CURB ELEVATIONS UNLESS OTHERWISE INDICATED ON PLANS. EXPANSION JOINT FILLER IS TO BE PLACED IN THE CURB & GUTTER AT EACH JUNCTION OF A RADIUS. IT SHALL BE PLACED AS PER DETAIL. 40-3, TRANSVERSE EXPANSION JOINT OR CONTRACTION JOINTS SHALL BE PLACED IN THE CURB & GUTTER AT 15' MAXIMUM INTERVALS OR MATCH JOINTS OF CONCRETE PAVEMENT. DOWELS WHEN REQUIRED SHALL BE #5 SMOOTH EPOXY COATED.

MINIMUM DEPTH OF GRANULAR MATERIAL PLACED UNDER CURB & GUTTER SHALL BE 4".

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CITY OF RAPID CITY

PUBLIC WORKS DEPARTMENT

DATE: 11-20-03

CURB & GUTTER

SEC. SHT.

60-2

M. Backfilling and Application of Live load

All concrete, except approach slabs, footings, columns, curb and gutter, and sidewalk shall have attained design strength before backfilling or before applying highway live loads. Approach slabs may be open to traffic when a compressive strength of 4000 psi is attained. Footings, columns, curb and gutter, and sidewalks shall not be backfilled until permission has been given by the Engineer.

N. Joints

Joints shall be constructed at the locations and of the dimensions shown on the plans or as directed by the Engineer. In joining fresh concrete to that which has already set at a construction joint, the concrete in place shall have all loose material removed.

O. Curing Concrete

Concrete shall be promptly protected by covering with canvas, straw, burlap, sand, or other satisfactory material and kept moist by flushing or sprinkling with water. Forms remaining in place shall be considered as adequate cover for curing for the number of days such forms remain in place, providing all exposed concrete surfaces are so covered. Curing shall continue for a period of not less than seven days after placing the concrete. Other precautions to insure development of strength shall be taken as the Engineer may direct.

In lieu of the above method of curing, white pigmented membrane curing compound may be used. The compound shall be uniformly applied after the final finishing operations are completed and immediately after the free water has left the surface.

The curing compound may be applied in either one or two applications in accordance with the direction of the manufacturer. If applied in two coatings, the second shall not be applied later than 30 minutes after the first.

Equipment, workers, or materials will not be allowed on the concrete surface for a minimum of seven days after the application of the curing compound, unless the surface is adequately protected with a layer of fine sand or other approved material. Such covering shall not be applied for at least eight hours after application of the curing compound. If, during the seven day curing period, the membrane film is broken or damaged, the areas affected shall be given a duplicate treatment of the curing material, applied at the same rate as the first treatment.

Surfaces, which are to receive a commercial texture finish, shall be cured by a method other than membrane cure. Surfaces, which are to receive a rubbed finish or a brush finish, shall be cured by a method other than membrane cure until the rubbing or brushing has been completed after which the membrane curing may be used as directed above. Membrane curing compound will not be allowed on any surface to which concrete is to be bonded.

K. Protection of Concrete

The following provisions apply to all concrete in addition to the requirements for curing as set forth in Section 55.3 Concrete Masonry.

Any concrete placed between November 1 and April 15 shall be covered by insulated blankets or equivalent heat retention methods, unless such requirements are waived by the Engineer.

Concrete for sidewalks, curb and gutter, drop inlets, manholes, ditch checks, pipe headwalls, approach slabs, pavement, etc. shall be maintained above 32°F until it has attained a compressive strength of 1500 psi. The compressive strength will be checked with a Swiss Impact Hammer in accordance with SD 409.

Enclosures for protection of concrete shall be capable of maintaining the temperature specified in the following and shall be of a height that permits free circulation of artificial heat. The use of salamanders or other types of open-flame heating unit is prohibited.

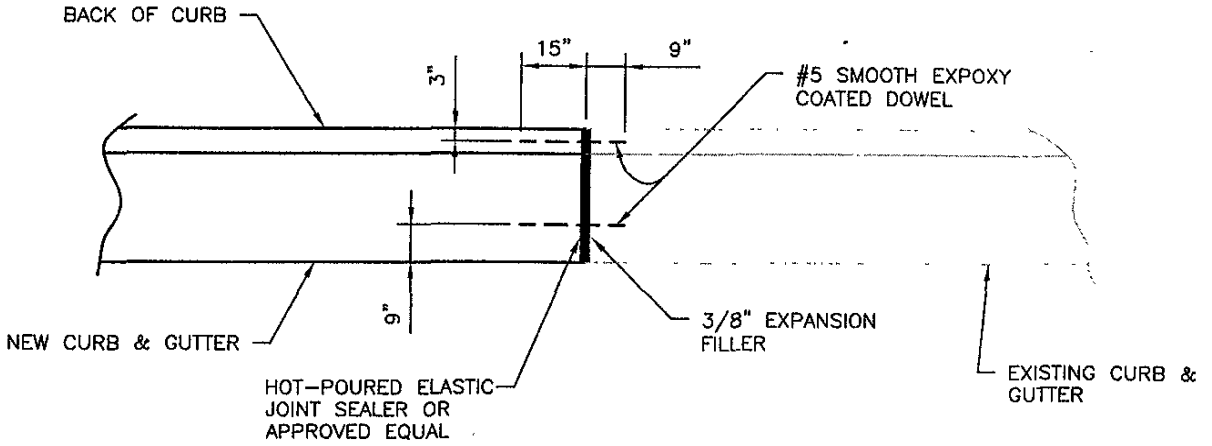
Form insulation shall be bats of fiberglass, rock wool, balsam wool, or similar commercial insulation material. Insulation shall remain in place for the full protection period. The forms may be loosened slightly to control the temperature of the concrete.

The Contractor shall drill holes in the forms and provide thermometer wells one-half inch to one inch in depth where required by the Engineer to determine the temperature of the concrete.

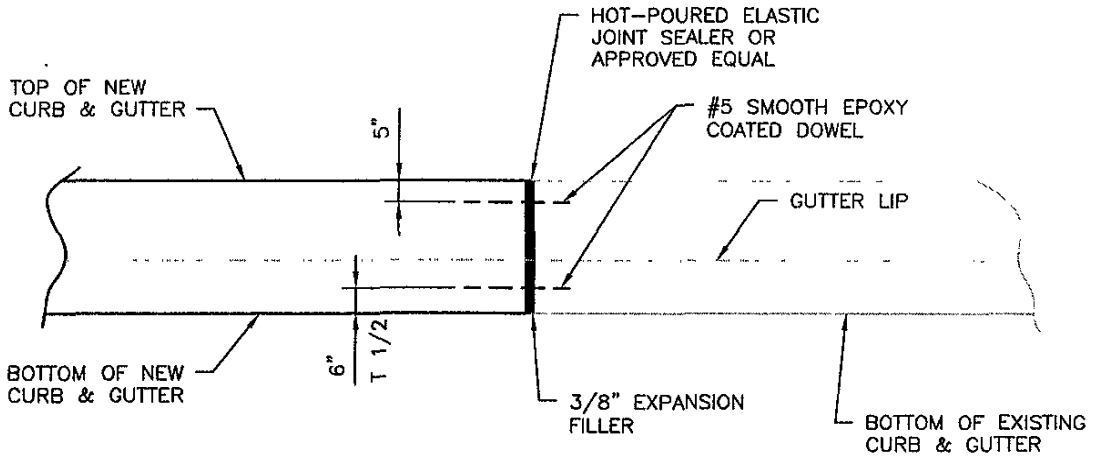
Concrete for bridges, box culverts, retaining walls, anchor blocks, median barriers, light and signal footings, and other structures when indicated on the plans shall be maintained at a temperature of 50°F or above for the first 72 hours after the concrete has been placed. The concrete shall be maintained at a temperature of 40°F or above for the next 48-hour period. In the event lower temperatures are recorded during this protection period, one extra day of protection time at temperatures above 40°F shall be added to the original five days of protection for each day that the minimum concrete temperature falls below the specified temperature.

If an additional bag of cement per cubic yard is used, or if high early strength cement is permitted, the concrete shall be maintained at a temperature of 60°F or above for 72 hours. In the event temperatures less than 60°F are recorded during this protection period, the protection time required shall be increased according to the preceding paragraph, with its provision for low temperatures also being applicable.

Until one of the protection periods have been satisfied, cold weather protection shall continue, false work shall remain in place, live loads shall not be applied, and the concrete temperature shall be maintained above 35°F.



PLAN



PROFILE

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CITY OF RAPID CITY PUBLIC WORKS DEPARTMENT

DATE: 11-20-03

CURB & GUTTER EXPANSION JOINT

SEC. SHT.
60-7