CITY OF ALBUQUERQUE

Richard J. Berry, Mayor

April 4, 2017

Scott McGee, P.E.
Walla Engineering
6501 Americas Pwky NE, Suite 301
Albuquerque, NM, 87110

RE: General Mills Paving
Grading and Drainage Plan
Stamp Date: 3/9/17
Hydrology File: C16D002

Dear Mr. McGee:

Based upon the information provided in your submittal received 3/13/2017, the Grading Plan is approved for Paving Permit.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

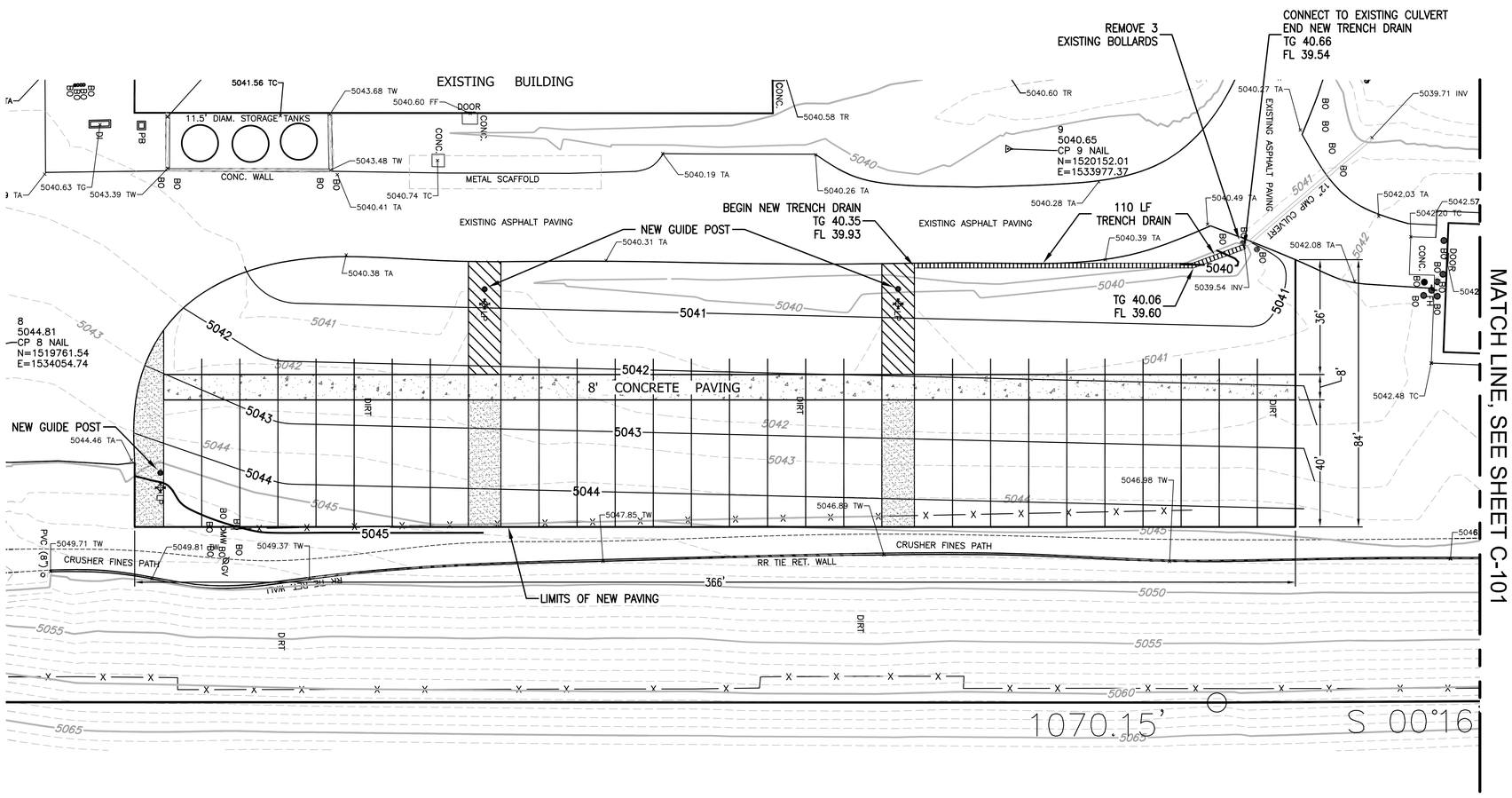
Sincerely,

Renee C. Brissette

Reneé C. Brissette, P.E.
Senior Engineer, Hydrology
Planning Department

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

Orig: Drainage File

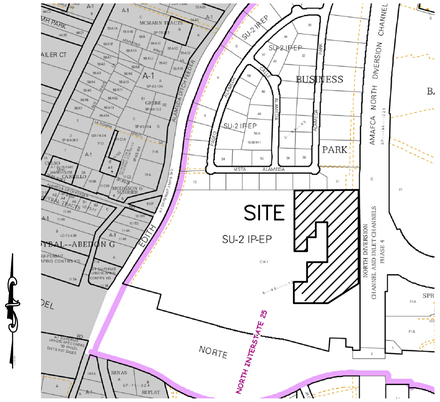


GRADING AND DRAINAGE PLAN

1" = 20'

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.



VICINITY MAP

ZONE ATLAS PAGE C-16
NOT TO SCALE

LEGAL: A portion of Tract C-1-A-1 of the LANDS OF SPRINGER BUILDING MATERIALS CORPORATION

AREA: 30,020 sf (0.69 acre) Overall site area is 56 acres.

BENCHMARK: Control point "N D C – 7- 182" located on the west bank of the North Diversion Channel approximately 500' north of the north edge of new paving.
ELEVATION = 5066.90 (NAVD88))

TEMPORARY BENCHMARK: Top of existing CP 9 nail as shown on plan. ELEVATION = 5040.65

SURVEYOR: Wayjohn Surveying, Inc. dated November 2016

PRECIPITATION ZONE: 2

FLOOD HAZARD: From FEMA Panel 350002D136G (dated 9/26/2008), this site is identified as being within Zone 'X' which is located outside the 0.2% annual chance floodplain.

EXISTING CONDITIONS: The existing site is a developed industrial area with commercial buildings along with associated paved parking. It is located on the north side of Paseo del Norte and abuts the AMAFCA North Diversion Channel. The portion of the site slopes down from the east to the west at 2-6%. Existing site drainage is generally directed to the northwest where runoff is retained onsite in an existing storm water retention pond.

PROPOSED IMPROVEMENTS: The proposed improvements include 29,100 SF of asphalt and concrete paving for semi-truck and trailer parking.

DRAINAGE APPROACH: The drainage plan will follow historic drainage patterns. The proposed paving will have very minor impact on this site which is 56 acres overall. The additional paved area is within Basin D (per the approved General Mills Plant Master Drainage Study prepared by Chavez – Grieves Consulting Engineers).

From the G M Plant Master Drainage Study:
Existing land treatment: Basin D—56% A, 26% C, and 18% D A=5.56 acres
Basin D: Q = 13.98 cfs (peak flow) and V = 21,697 CF
Volume provided = 28,458 CF and required 10-day Volume = 26,572 CF

Proposed land treatment: Basin D—56% A, 14% C, and 30% D

Basin D: Q= [(0.56)(1.56)+(0.14)(3.14)+(0.30)(4.70)] (5.56) =15.12 cfs
Required 10-day Volume = (.0909S)(242,192) + (1.69)(43560)(.1333) = 31,840 CF

The approved Drainage plan gives Basin D peak flow of Q=13.98 CFS. The proposed paving improvements increase basin runoff slightly (1.1 CFS increase), but the 10-day volume increase of 3,382 CF needs to be retained onsite. The pond volume expansion proposed provides an additional 7,000 CF so retention volume provided in Basin D is 35,458 CF which is adequate.

Legend

5045	EXISTING CONTOUR – MAJOR
5043	EXISTING CONTOUR – MINOR
5040	NEW CONTOUR – MAJOR
5041	NEW CONTOUR – MINOR
	STRIPED PAVING
	DIRT AREA

SCOTT M. McGEE NEW MEXICO 10519 REGISTERED PROFESSIONAL ENGINEER
3/9/17

REV	DATE	DESCRIPTION
0	01/14/15	PRELIMINARY DESIGN

Scott M McGee PE
9700 Tanoan Dr NE
Albuquerque, NM 87111
505.263.2905
scottmmcgee@gmail.com

GRADING AND DRAINAGE PLAN

GENERAL MILLS | C-100

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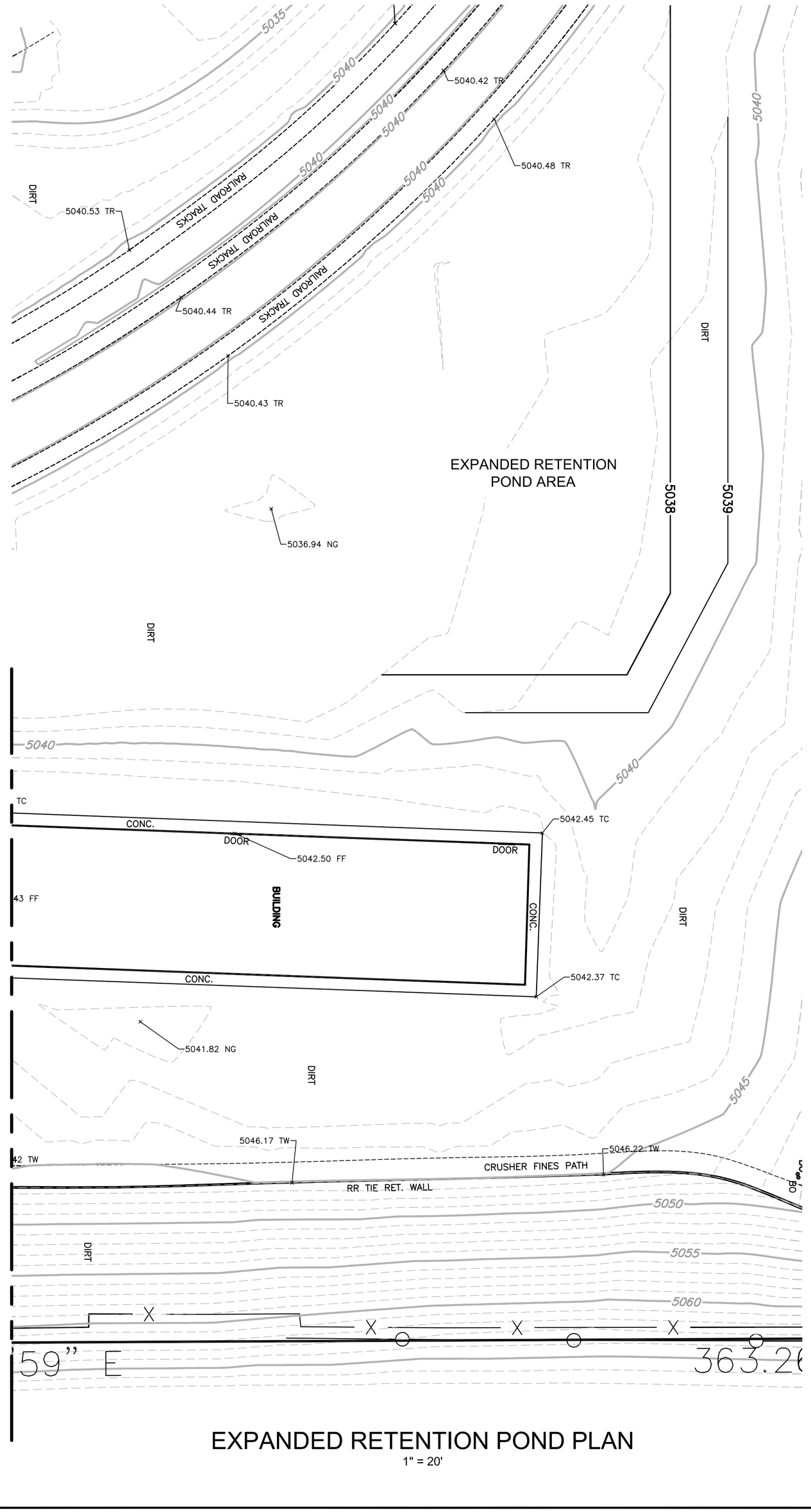
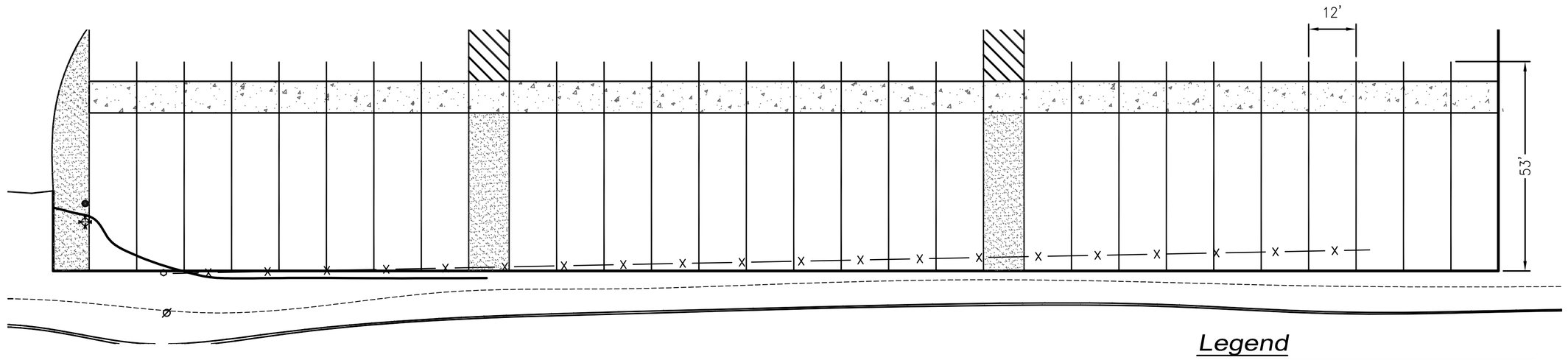


MATCH LINE, SEE SHEET C-101

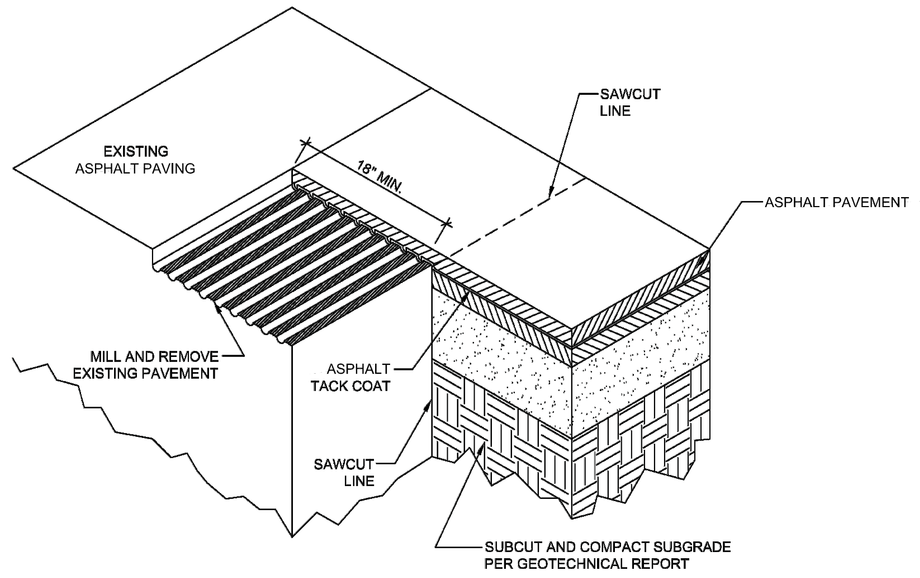
EXPANDED RETENTION POND PLAN
1" = 20'



PAVEMENT MARKING DETAIL
1" = 20'

Legend

- STRIPED PAVING
- DIRT AREA



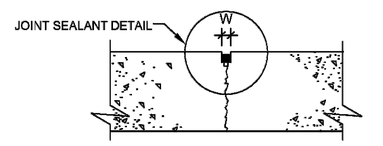
MILLED ASPHALT EDGE
NOT TO SCALE

GUIDE POST DETAIL
NOT TO SCALE

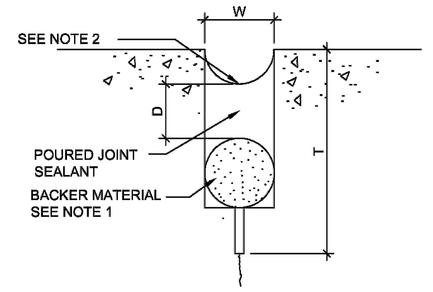
REINFORCED CONCRETE PAVEMENT
NOT TO SCALE

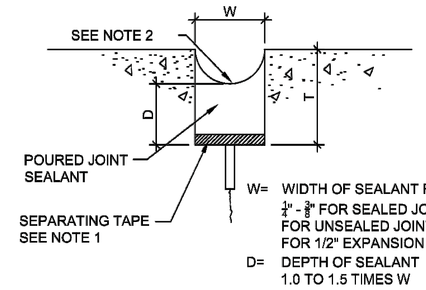
TRENCH DRAIN
NOT TO SCALE

ASPHALT PAVEMENT DETAIL
NOT TO SCALE



1 CONTRACTION JOINT
NO SCALE





NOTES:
1. SEPARATING TAPE OR BACKER MATERIAL REQUIRED TO PREVENT JOINT SEALANT FROM FLOWING INTO SAWCUT, TO SEPARATE NONCOMPATIBLE MATERIALS AND TO PREVENT SEALANT FROM BONDING TO BOTTOM OF RESERVOIR.
2. TOP OF SEALANT WILL BE 1/8" TO 1/4" BELOW TOP OF PAVEMENT.

W= WIDTH OF SEALANT RESERVOIR
1/4" - 3/8" FOR SEALED JOINTS AND 3/4" FOR UNSEALED JOINTS EXCEPT FOR 1/2" EXPANSION JOINTS

D= DEPTH OF SEALANT
1.0 TO 1.5 TIMES W

T= DEPTH OF INITIAL SAWCUT, 1/4 OF THE SLAB THICKNESS FOR PAVEMENT LESS THAN 12"

JOINT SEALANT DETAILS
NOT TO SCALE

REV	DATE	DESCRIPTION
0	01/14/15	PRELIMINARY DESIGN

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DETAILS

GENERAL MILLS | C-101

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