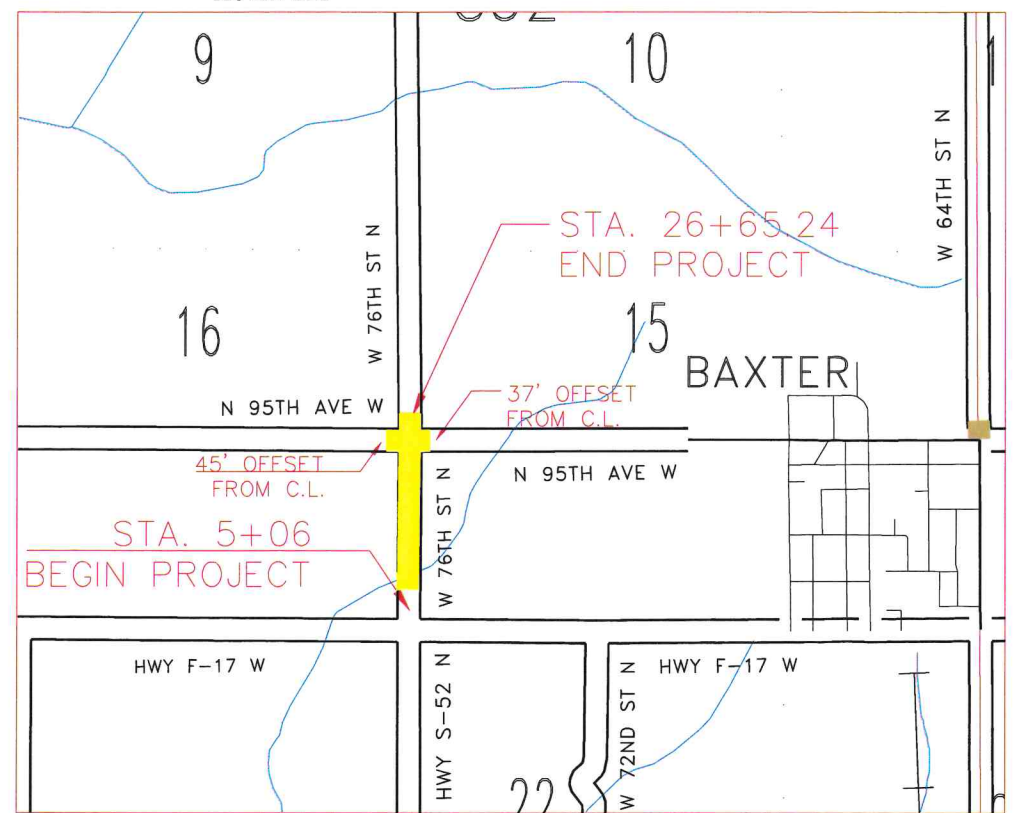


PROJECT NUMBER: FM-C050(162)--55-50
JASPER COUNTY: BASE STABILIZATION & SEAL COAT

LETTING DATE: JULY 21, 2026

LEGEND

- DIVIDED HIGHWAY
- PAVED ROAD
- BITUMINOUS ROAD
- GRAVEL ROAD
- EARTH ROAD
- INTERSTATE HIGHWAY
- UNITED STATES HIGHWAY
- STATE HIGHWAY
- COUNTY HIGHWAY
- RAILROAD
- AIRPORT
- HYDROLOGY
- BRIDGE
- STATE BOUNDARY
- COUNTY BOUNDARY
- CORPORATE LIMIT LINE
- TOWNSHIP LINE
- SECTION LINE



PROJECT LOCATION VICINITY MAP



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

BY: *[Signature]* DATE: 04/23/2026

MICHAEL J. FRIETSCH, PE 26831
MY LICENSE RENEWAL DATE IS DEC. 31, 2026
SHEETS COVERED BY THIS SEAL: A.01-E.01

IOWA
DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
PLANS OF PROPOSED IMPROVEMENT ON THE
FARM TO MARKET SYSTEM
JASPER COUNTY
FM-C050(162)--55-50
BASE STABILIZATION,
& SEAL COAT

ON W 76TH ST N (S 52), FROM
HWY F-17 W N 0.5 MILES TO END
MAX AADT: 190

Refer to the Proposal Form for list of applicable specifications

"Traffic control devices, procedures, layouts, signing, and pavement markings installed within the limits of this project shall conform to the Manual on Uniform Traffic Control Devices for Streets and Highways" as adopted by the Department per 761 of the Iowa Administrative Code (IAC) chapter 130."

THIS PROJECT IS NOT COVERED BY AN IOWA DEPARTMENT OF NATURAL RESOURCES NPDES PERMIT.

[Signature] 4/28/26
[Signature] 4/28/26
[Signature] 4/28/26

Approved _____ Date _____
Board of Supervisors

TOTAL SHEETS
5

INDEX OF SHEETS	
NO.	DESCRIPTION
A.01	TITLE SHEET
B.01	GENERAL NOTES AND QUANTITIES
C.01	TYPICAL CROSS SECTIONS
D.01	PLAN SHEET
E.01	TRAFFIC CONTROL & TABULATION

TRAFFIC CONTROL PLAN

ROADWAY WILL NOT BE OPEN TO TRAFFIC. THE CONTRACTOR SHALL INSTALL BARRICADES AND SAFETY FENCING AROUND THE CONSTRUCTION OPERATIONS AS NECESSARY TO PROTECT THE PUBLIC. ADJACENT LANDOWNERS WILL BE ALLOWED ACCESS.

MILEAGE SUMMARY			
DIV.	LOCATION	LIN. FT.	MILES
	BOP 5+06 EOP 26+65.24	2,159.24	0.41

STANDARD ROAD PLANS					
THE FOLLOWING STANDARD PLANS SHALL BE CONSIDERED APPLICABLE TO CONSTRUCTION WORK ON THIS PROJECT					
STANDARD		STANDARD		STANDARD	
EW-105	04-21-15				
TC-252	10-21-25				

UTILITY CONTACTS				
COMPANY	UTILITY	CONTACT	PHONE	E-MAIL
IOWA REGIONAL UTILITY ASS.	WATER	Kimberlin Annis	641-792-7011	locates@irua.net
BLACKHILLS ENERGY GRIMES	GAS	CHUCK WOODS	515-343-2037	chuck.woods@blackhillscorp.com
ALLIANT ENERGY	ELEC.	FIELD ENGINEER	800-855-4268	locateipl@alliant-energy.com
CITY OF BAXTER	BAX	PEG KIMBERLEY	641-227-3120	city@baxter-iowa.com
WINDSTREAM ENTERPRISE	COMM.	LOCATE DESK	800-941-3430	wci.elec.locate@windstream.com
CONSUMERS ENERGY	ELEC.	KEVIN PETERSON	641-498-7701	onecall@consumersenergy.com
PARTNER COMMUNICATIONS	COMM.	TRACY DECKER	641-498-7701	tdecker@pcpartner.net
MEDIACOM	COMM.	DAVE MEYERS	515-991-7388	dmyers2@mediacomcc.com



JASPER COUNTY: BASE STABILIZATION & SEAL COAT

ESTIMATED QUANTITIES				
REF. NO.	ITEM CODE	DESCRIPTION	UNIT	QUANTITY
1.	2212-0475095	CLEANING AND PREPARATION OF BASE	MILE	1.25
2.	2213-7100400	RELOCATION OF MAIL BOXES	EACH	5
3.	2214-7450050	BLADING AND SHAPING SHOULDER MATERIAL	STA	21.60
4.	2307-0600000	BINDER BITUMEN, DOUBLE OTTA SEAL	GAL	4,414.5
5.	2307-0600000	BINDER BITUMEN, MC-70 PRIME COAT	GAL	1,177.2
6.	2312-8260051	GRANULAR SURFACING ON ROAD, CLASS A CRUSHED STONE	TON	147.15
7.	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	TON	32
8.	2526-8285010	CONSTRUCTION SURVEY, MONUMENT PRESERVATION	LS	1
9.	2526-8285020	CONSTRUCTION SURVEY, CONTROL POINT SURVEY	LS	1
10.	2528-2518000	SAFETY CLOSURE	EACH	3
11.	2528-8445110	TRAFFIC CONTROL	LS	1
12.	2533-4980005	MOBILIZATION	LS	1
13.	2599-9999018	(SQUARE YARD ITEM) CONSTRUCTION OF CEMENT TREATED SUBGRADE	SY	6,376.5
14.	2599-9999020	('TONS ITEM') AGGREGATE INTERLAYER, HMA MILLINGS 1" THICKNESS	TON	226.65
15.	2599-9999020	('TONS ITEM') CEMENT	TON	185.93
16.	2601-2634100	MULCHING	ACRE	0.1
17.	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	0.1

REF. NO.

1.

ITEM TO BE USED AFTER CONSTRUCTION OF CEMENT TREATED SUBGRADE & EACH OTTA SEAL. SEE SPECIAL PROVISION - OTTA SEAL
2.

CONTRACTOR SHALL REMOVE & RESET, ACCORDING TO U.S. POSTAL REQUIREMENTS ANY MAILBOXES AS NECESSARY. TEMPORARY PLACEMENT OF MAILBOXES DURING STAGED CONSTRUCTION SHALL BE COORDINATED WITH THE POST OFFICE. ITEM SHALL BE MEASURED PER EACH MAILBOX REMOVED & REPLACED. PAID FOR EACH' AT THE CONTRACT UNIT PRICE. MULTIPLE MAILBOXES ON THE SAME POST COUNT AS ONE MAILBOX. MAILBOXES WITH MULTIPLE POSTS COUNT AS ONE MAILBOX.
3.

ITEM TO BE USED TO ACHIEVE PROPER DEPTH & SHAPE OF SHOULDER.
4.

ITEM IS FOR OTTA SEAL. TO BE APPLIED TWO SUCCESSIVE COURSES. REFER TO TYPICAL SECTION. AGGREGATE DENSITY IS ASSUMED AT 150 PCF. REFER TO SPECIAL PROVISIONS FOR OTTA SEAL CONSTRUCTION REQUIREMENTS.

TARGET APPLICATION RATE OF AGGREGATE IS 50LB/SY FOR EACH COURSE. TARGET BINDER APPLICATION RATE IS 0.50 GAL/SY OF MC-3000 OR HFMS-2S FOR FIRST COURSE & 0.25 GAL/SY OF HFMS-2S ONLY FOR SECOND COURSE.

TEST STRIPS ARE REQUIRED FOR EACH COURSE & ARE INCIDENTAL TO THESE BID ITEMS.
5.

ITEM IS FOR BINDER BITUMEN PRIME COAT TO BE APPLIED TO AGGREGATE INTERLAYER. REFER TO TYPICAL SECTION. TARGET RATE OF APPLICATION IS 0.20 GAL/SY. REFER TO IOWA DOT 2307 FOR APPLICATION REQUIREMENTS. SAND COVER IS NOT REQUIRED.
6.

3/4 INCH CLASS A CRUSHED STONE. TO BE USED WITH OTTA SEAL.
7.

3/4 INCH CLASS A CRUSHED STONE. TO BE USED TO ACHIEVE PROPER DEPTH OF DRIVEWAYS AFTER OTTA SEAL.
8.

SURVEYOR SHALL ALSO PRESERVE AND/OR REESTABLISH EXISTING SECTION CORNERS, MONUMENTS, & PROPERTY CORNERS THAT HAVE BEEN DISTURBED DURING PROJECT.
9.

SHALL INCLUDE ESTABLISHING CENTERLINE PROFILE & GRADE FROM EXISTING ROAD.
10.

ITEM IS FOR 3 SAFETY CLOSURES. SEE TABULATION SHEET.
11.

THE CONTRACTOR SHALL COMMUNICATE TRAFFIC CONTROL & ACCESS CHANGES/CLOSURES WITH ALL PROPERTY OWNERS ALONG THE PROJECT CORRIDOR AT LEAST 2 WEEKS AND 48 HOURS PRIOR TO CHANGES. DOOR HANGERS & MAILINGS ARE REQUIRED FOR NOTIFICATIONS. JASPER COUNTY WILL PROVIDE DETOUR ROUTE IF NEEDED.
13.

(SQUARE YARD ITEM) INCORPORATE CEMENT INTO NATURAL SUB GRADE FOR PAVEMENT CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPMENT OF THE CEMENT/SUB GRADE MIXTURE DESIGN (% OF CEMENT & QUANTITY OF WATER REQUIRED PER CF/SY/SF, ETC). THE CONTRACTOR SHALL EMPLOY AN INDEPENDENT GEOTECHNICAL LAB TO ASSIST IN DEVELOPMENT OF THE MIX DESIGN & PERFORM ALL CONSTRUCTION (DENSITY & MOISTURE CONTENT) TESTING REQUIRED. INCORPORATE THE CEMENT UNIFORMLY DURING SUBGRADE PREPERATION TO A DEPTH OF 12" & AT THE RATE DETERMINED BY THE INDEPENDENT GEOTECHNICAL LAB. MEASUREMENT WILL BE IN SQUARE YARDS FOR THE QUANTITY OF TREATED SUBGRADE. PAYMENT WILL BE AT THE UNIT PRICE PER SQUARE YARD FOR TREATED SUBGRADE. UNIT PRICE PER SQUARE YARD INCLUDES BUT NOT LIMITED TO; CONTRACTOR HIRED INDEPENDENT GEOTECHNICAL LAB AS PREVIOUSLY DESCRIBED, ALL EQUIPMENT & LABOR NECESSARY TO PLACE & INCORPORATE THE CEMENT, INCLUDING ALL WATER REQUIRED TO CORRECTLY MIX WITH SUBGRADE PRIOR TO OTTA SEAL PLACEMENT AS DIRECTED BY THE GEOTECHNICAL LAB. REFER TO SPECIAL PROVISION CEMENT SUBRADE STABILIZATION.
14.

(TONS ITEM) ITEM IS FOR USE IN CONSTRUCTION OF THE ROADWAY IMPROVEMENT. REFER TO C-SHEETS TYPICAL DRAWING. AGGREGATE INTERLAYER SHALL BE 1" COMPACTED THICKNESS. WIDTH SHALL INCLUDE FULL WIDTH OF CEMENT STABILIZED SUBGRADE. MATERIAL SHALL BE RECLAIMED MILLINGS FROM HMA PAVEMENT, FREE FROM DIRT, DEBRIS & OTHER CONTAMINANTS. MATERIALS SHALL BE 100% PASSING 3/4" SIEVE. MATERIALS SHALL BE MOISTURE CONDITIONED & COMPACTED IN ACCORDANCE WITH IOWA DOT 2111. ITEM INCLUDES FURNISHING, HAULING, SPREADING, GRADING & COMPACTING HMA MILLINGS IN ACCORDANCE WITH THE PLANS & CONTRACT DOCUMENTS. METHOD OF MEASUREMENT SHALL BE IN THE WEIGHT OF TONS REQUIRED TO ACHIEVE 1" THICKNESS. PAYMENT WILL BE BASED ON THE SCALE TICKETS OF THE HMA MILLINGS DELIVERED & INCORPORATED INTO THE PROJECT. REFER TO SPECIAL PROVISION CEMENT SUBGRADE STABILIZATION.
15.

(TONS ITEM) PROVIDE PORTLAND CEMENT REQUIRED FOR CONSTRUCTION OF CEMENT-TREATED SUBGRADE. PORTLAND CEMENT SHALL BE OF THE TYPE SPECIFIED BY THE INDEPENDENT GEOTECHNICAL LAB AS DESCRIBED IN BID ITEM #14. ASSUMED WEIGHT FOR INCORPORATION IS 6% BY WEIGHT OF SUBGRADE (TO QUANTIFY FOR BIDDING PURPOSES) MEASUREMENT WILL BE IN TONS FOR THE QUANTITY OF CEMENT REQUIRED TO BE INCORPORATED INTO THE SUBGRADE. PAYMENT WILL BE BASED ON THE SCALE TICKETS OF THE CEMENT DELIVERED & INCORPORATED INTO THE PROJECT. REFER TO SPECIAL PROVISION CEMENT SUBGRADE STABILIZATION.
- 16-17

THE CONTRACTOR IS TO FERTILIZE, SEED AND MULCH ANY AREAS DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION INCLUDING BORROW SITES AND REESTABLISHED SHOULDER. THIS SHALL BE INCLUDED IN THE PRICE "SEEDING AND FERTILIZING (RURAL).

GENERAL NOTES

-THE CONTRACTOR SHALL CONTAIN ALL WORK TO THE EXISTING COUNTY RIGHT OF WAY UNLESS WRITTEN PERMISSION IS OBTAINED FROM PERSPECTIVE PROPERTY OWNER AND PRESENTED TO THE CONTRACTING AUTHORITY.

-ALL RUBBLE AND DEBRIS GENERATED BY REMOVAL CONSTRUCTION OPERATIONS SHALL BE CLEANED UP AND DISPOSED OF BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.

-ANY EXISTING FIELD TILE THAT IS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO FUNCTION AS WELL OR BETTER THAN ORIGINAL BY THE CONTRACTOR AT THEIR EXPENSE.

-911 SIGNS SHALL NOT BE DISTURBED UNLESS THEY INTERFERE WITH CONSTRUCTION. DISTURBED 911 SIGNS SHALL BE REPLACED BY OTHERS.

-A PLAN FOR STAGE CONSTRUCTION OF LOCAL ACCESSES WHICH ARE REQUIRED TO REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION

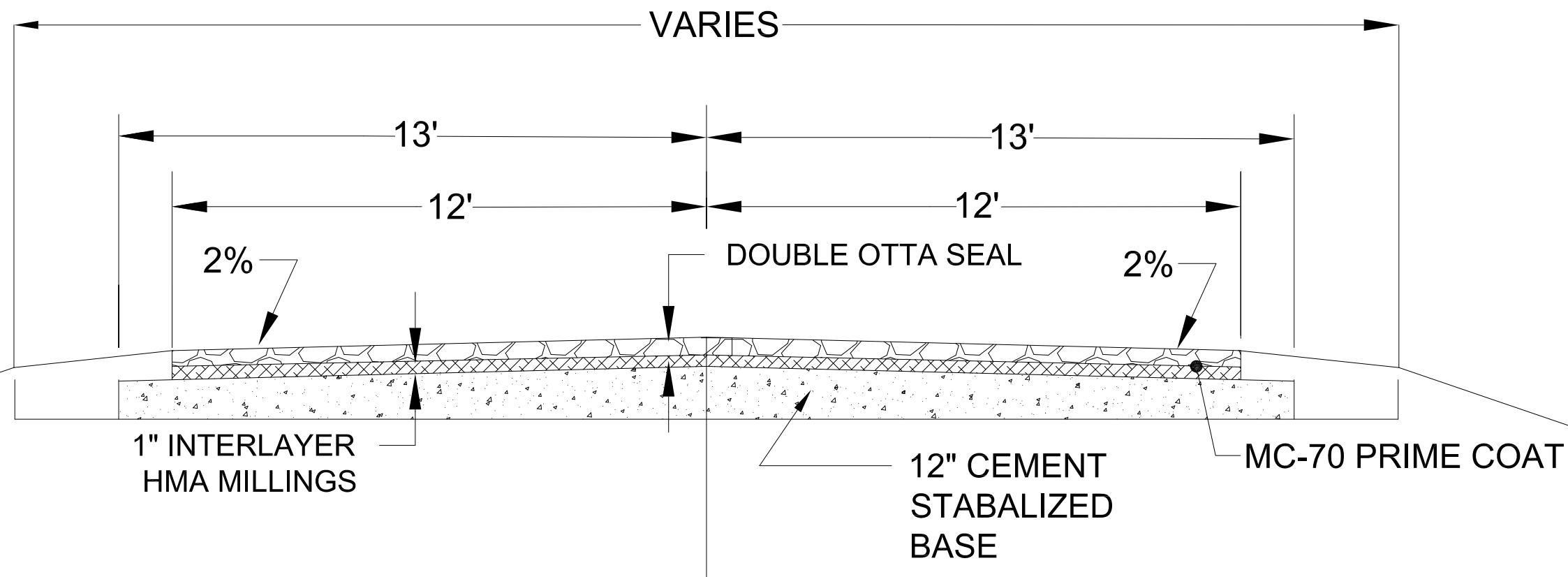
-CONTRACTOR SHALL NOTIFY COUNTY 2 WEEKS PRIOR TO STARTING CONSTRUCTION.

-NO CLEANOUTS WILL BE ALLOWED ON OR ALONG ANY CITY, COUNTY, OR STATE ROADS.

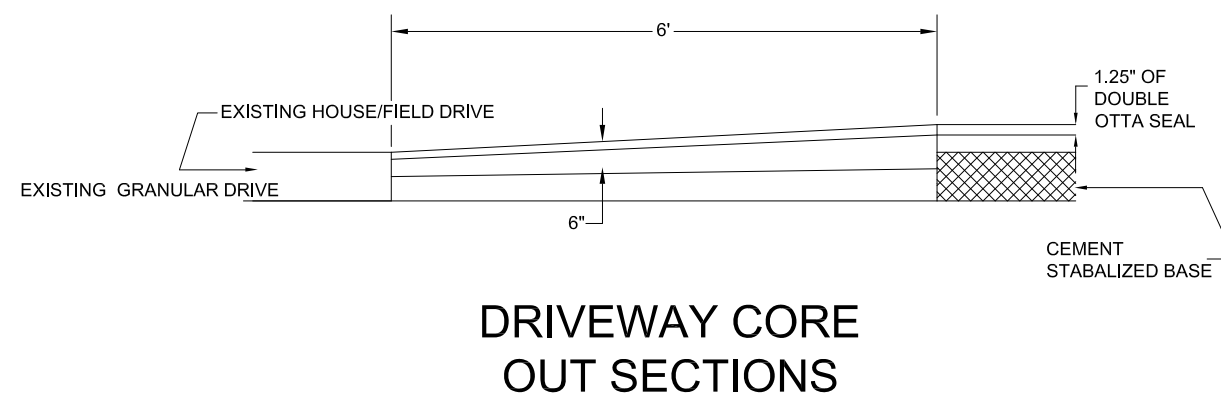
-ALL TONS MATERIAL ARE REQUIRED TO COME WITH A SCALE TICKET THAT INCLUDES JOB NUMBER, JOB DESCRIPTION, DATE, TIME, TRUCK NUMBER AND TONS. WRONG OR MISSING INFO ON ANY SUCH TICKET WILL MAKE THE LOAD NULL & VOID.

-STA. 5+06 IS LOCATED 506' NORTH OF HWY F-17 W ON W 76TH ST N

-STA. 26+65.24 IS LOCATED 35' NORTH OF N 95TH AVE W ON W 76TH ST N

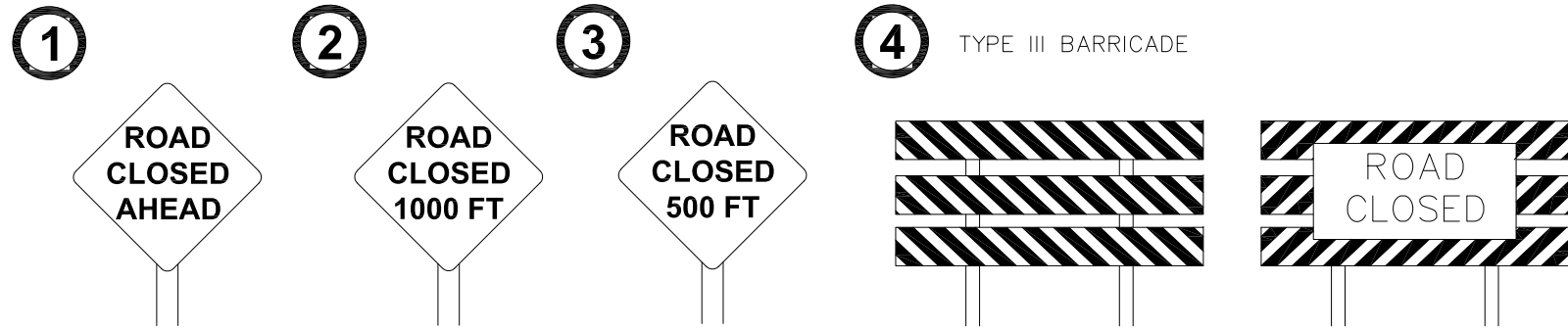


TYPICAL CROSS SECTION FROM STA. 5+06 TO STA. 26+65.24



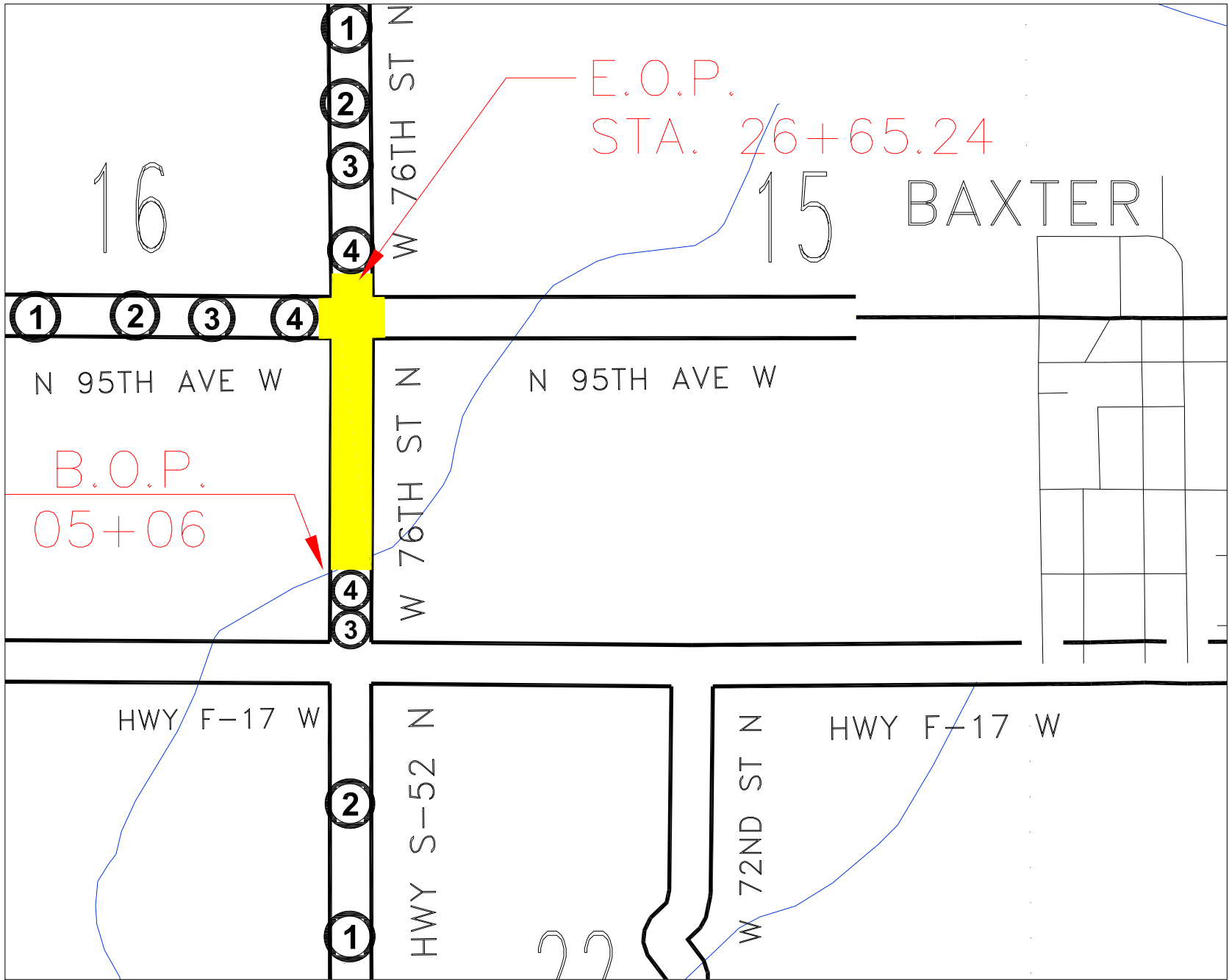
DRIVEWAY CORE OUT SECTIONS





TABULATION	
1	3 EACH
2	3 EACH
3	3 EACH
4	3 EACH

SAFETY CLOSURES			
Refer to Section 2528 of the Standard Specifications			
Station	Road Closure Qty.	Hazard Closure Qty.	Remarks
+5.00	1		ROAD CLOSED
26+32.24	1		OFFSET WEST 60'
26+65.24	1		ROAD CLOSED



TABULATION OF MAILBOX RELOCATION			
STATION	911 ADDRESS	QUANTITY	REMARKS
15+50.67	HOUSE NO. 9341	1	
17+25.03	HOUSE NO. 9364	1	
17+95.54	HOUSE NO. 9381	1	
22+62.21	HOUSE NO. 9427	1	
24+82.17	HOUSE NO. 9449	1	