

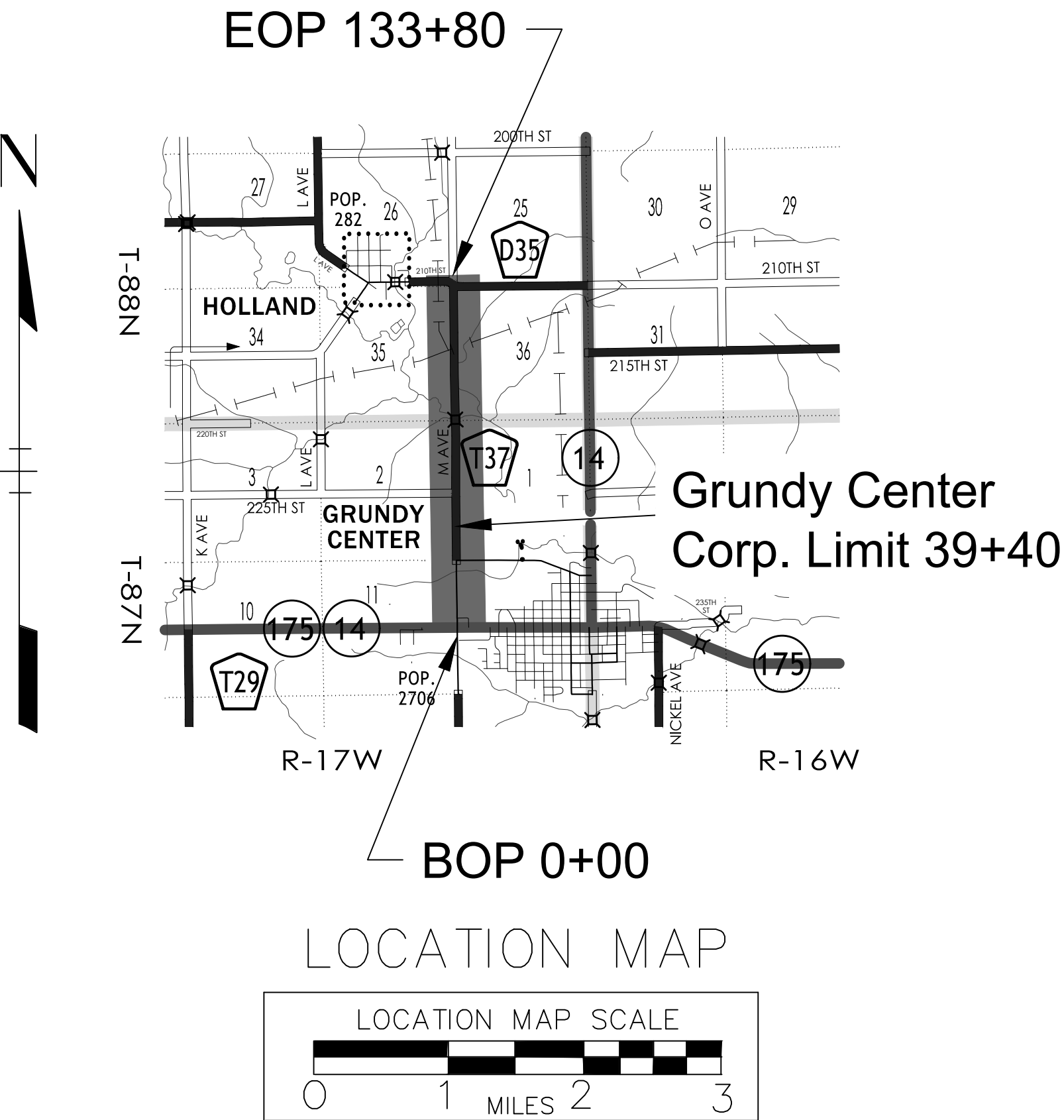
TRAFFIC CONTROL PLAN:

TRAFFIC CONTROL PLAN THE ROADWAY WILL BE CLOSED FROM STA 0+12 TO STA 26+30 (IA175 TO A AVE) TO THRU TRAFFIC. ROAD CLOSURE WILL BE THE RESPONSIBILITY OF THE ROAD CONTRACTOR IN ACCORDANCE WITH TC-252. LOCAL TRAFFIC WILL BE MAINTAINED AS PROVIDED FOR IN ARTICLE 1107.08 OF THE CURRENT STANDARD SPECIFICATIONS. DETOUR TO BE ERECTED AND MAINTAINED BY THE CONTRACTING AUTHORITY.

THE REMAINDER OF THE ROAD WILL BE OPEN TO TRAFFIC THROUGHOUT CONSTRUCTION OF THE PROJECT. TRAFFIC WILL BE MAINTAINED AS PROVIDED FOR IN ARTICLE 1107.08 OF THE CURRENT STANDARD SPECIFICATIONS AND STANDARD ROAD PLANS TC-1, TC-202, TC-211, TC-212, TC-213, TC-214, TC-233, TC-419. THE RIGHT MOST WEST BOUND LANE OF IA175/IA14 AT THE B.O.P. WILL BE CLOSED USING TC-419. WEST OF THE INTERSECTION WITH M AVE/T37 THE SHOULDER WILL BE CLOSED USING TC-202 AND THE CONTRACTOR WILL COMPLY WITH THE EDGE DROP-OFF REQUIREMENTS LISTED THEREIN.



SCALE:
HALF-SIZE
PLAN
SHEETS



IOWA DEPARTMENT OF TRANSPORTATION

Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

FARM TO MARKET SYSTEM
GRUNDY COUNTY

On M AVE, from IA175 N 2.5 miles to D35
HMA Pavement Widening/HMA Resurfacing
STP-S-C038(143)--5E-38

REFER TO THE PROPOSAL FORM FOR AN
APPLICABLE LIST OF SPECIFICATIONS.

Scales: As Noted

UTILITY CONTACTS				
COMPANY	UTILITY	CONTACT	PHONE #	EMAIL
ALLIANT ENERGY	ELECTRIC	FIELD ENGINEER	800-255-4268	locate_JPL@alliantenergy.com
WINDSTREAM ENTERPRISE	TELEPHONE	LOCATE DESK	800-941-3430	wci.clec.locate@windstream.com
IOWA REGIONAL UTILITY ASSOC.	WATER	KIMBERLIN ANNIS	641-792-7011	locates@irua.net
MEDIACOM	COMMUNICATIONS	SCOTT LAGOW	845-544-9655	clagow@mediacomcc.com
AUREON NETWORK SERVICES	COMMUNICATIONS	JEFF KLOCKO	515-830-0445	jeff.klocko@aureon.com
BLACK HILLS ENERGY	GAS	CHUCK WOODS	515-343-2037	chuck.woods@blackhillscorp.com
HEART OF IOWA VENTURES	COMMUNICATIONS	NATHAN BUTLER	641-486-2211	nbutler@heartofiowa.coop
GRUNDY CENTER MUNICIPAL UTILIT	ELEC & COMM	JEFF CARSON	319-825-5207	gcmuni@gcmuni.net
GRUNDY CENTER, CITY OF	MUNICIPAL	DAN BANGASSER	319-825-6118	publicworks@grundycenter.com
NORTHERN NATURAL GAS	GAS	JOHN KAHRS	402-530-6612	john.kahrs@nngco.com
TYSON COMMUNICATIONS	COMMUNICATIONS	TYSON ALBRIGHT	319-825-5500	big_T_18@hotmail.com
WINDSTREAM COMMUNICATIONS	COMMUNICATIONS	LOCATE DESK	800-289-1901	locate.desk@windstream.com
CORN BELT POWER COOP	ELECTRIC	DAN SHIFLETT	515-332-7746	dan.shiflett@cbpower.coop

Lat/Long.: 42°21'41.9"N 92°47'16.0"W Total Sheets:16
Project Number: STP-S-C038(143)--5E-38

INDEX OF SHEETS

No.	Description
A.01	Title Sheet, Location Map, Utilities, Standard Road Plans
B.01-02	Typical Sections
C.01-04	Bid Items, General Notes, Bid Reference Notes, Tabulations
D.01-07	Plan sheets
X.01-02	Cross Section sheets

MILEAGE SUMMARY

Road ID	Location	Lin.Ft.	Miles
Div.I County	STA 26+30 TO STA 39+40 (11' RT of paving only. Remainder RT Div.II)	1,310.00	0.248
	STA 39+40 TO STA 133+80	9,440.00	1.788
	Bridge STA 80+97 TO STA 82+24	-127.00	-0.024
	Div.I Subtotal:	10,263.00	2.012
Div.II City	STA 0+12 TO STA 26+30 (Except center 22' of paving only)	2,618.00	0.496
	Div.II Subtotal:	2,618.00	0.496
GRAND TOTAL		13,241.00	2.508

ROAD STANDARD PLANS

The following Standard Plans shall be considered applicable to construction work on this project.					
Identification	Date	Identification	Date	Identification	Date
TC-1	10-15-19	EC-101	04-19-16	EW-101	10-17-17
TC-202	04-18-23	EC-103	04-21-15	EW-105	04-21-15
TC-211	10-15-19	EC-201	04-21-21	EW-501	10-17-23
TC-212	04-18-23	EC-204	10-19-21	EW-503	10-20-15
TC-213	04-18-23	PR-201	04-21-26	PV-101	01-01-26
TC-214	04-18-23	PR-202	10-21-14	PV-102	10-21-25
TC-233	10-17-17	DR-303	10-17-17	PV-103	10-21-25
TC-252	04-18-23	DR-305	04-19-22	PV-202	04-21-20
TC-419	04-18-23			PV-203	04-21-20



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.

Jeffery Skalberg
Jeffery Skalberg, P.E. 6-15-26 (date)

My license renewal date is December 31, 2027

Pages or sheets covered by this seal:

A.01, B.01-02, C.01-04, D.01-07, X.01-02

Debbie Duda

Mark Schilder

Mark Schilder

Jeffrey A. Pabst

Don Vaden

Approved 6-15-26
Board of Supervisors

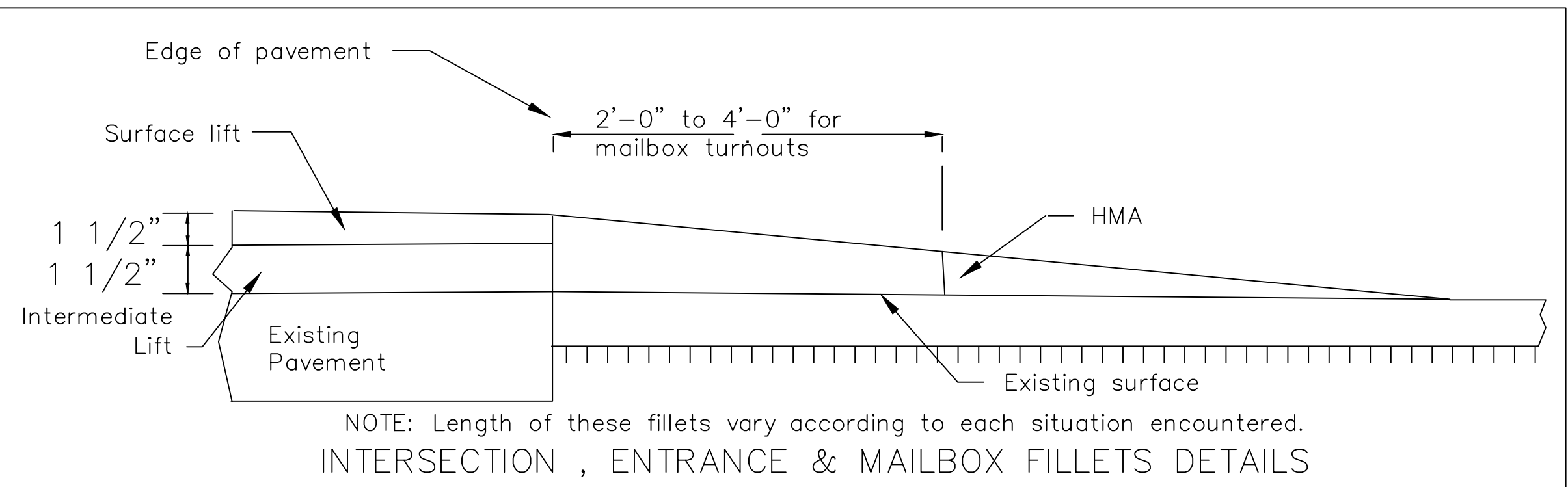
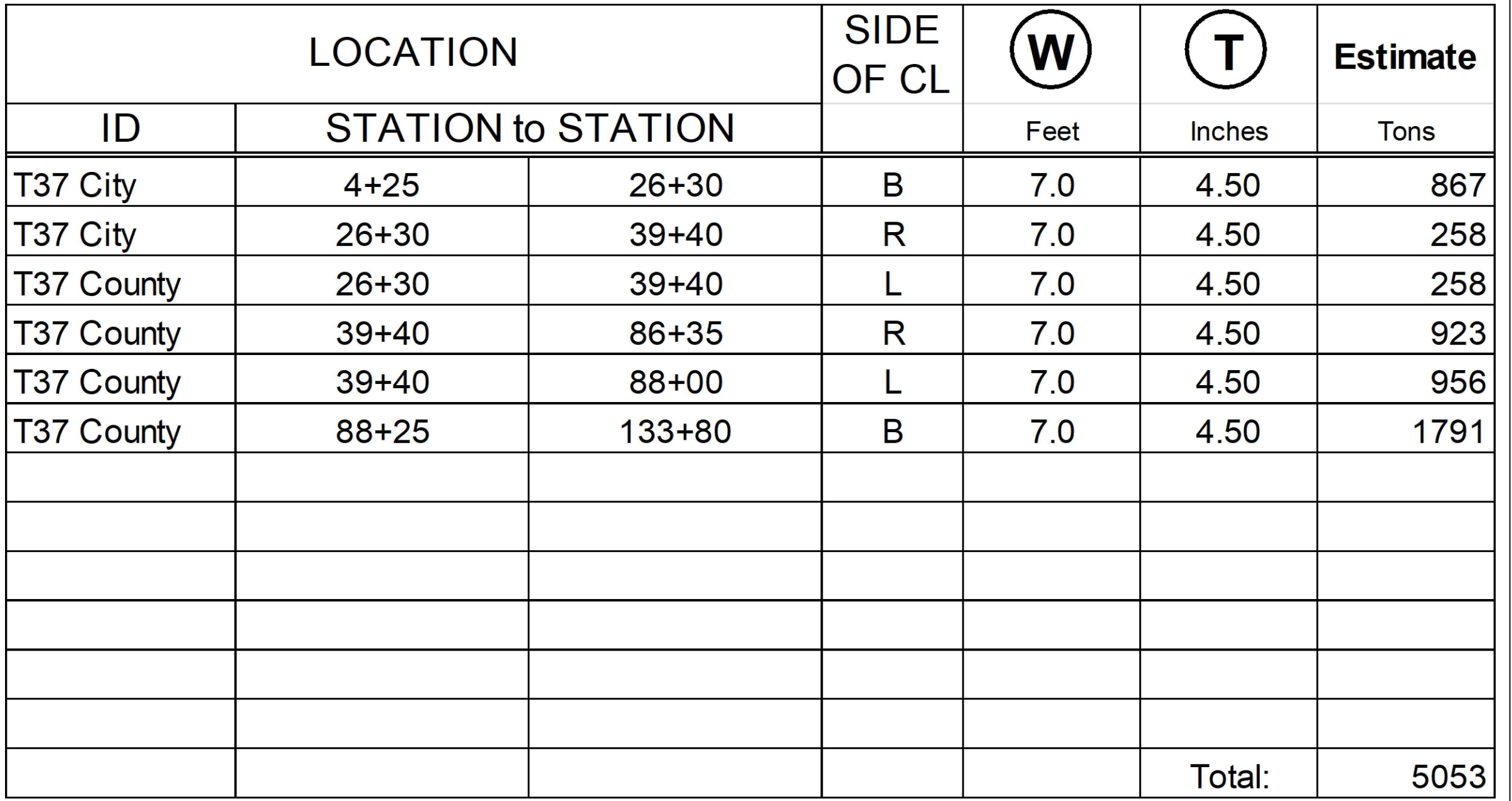
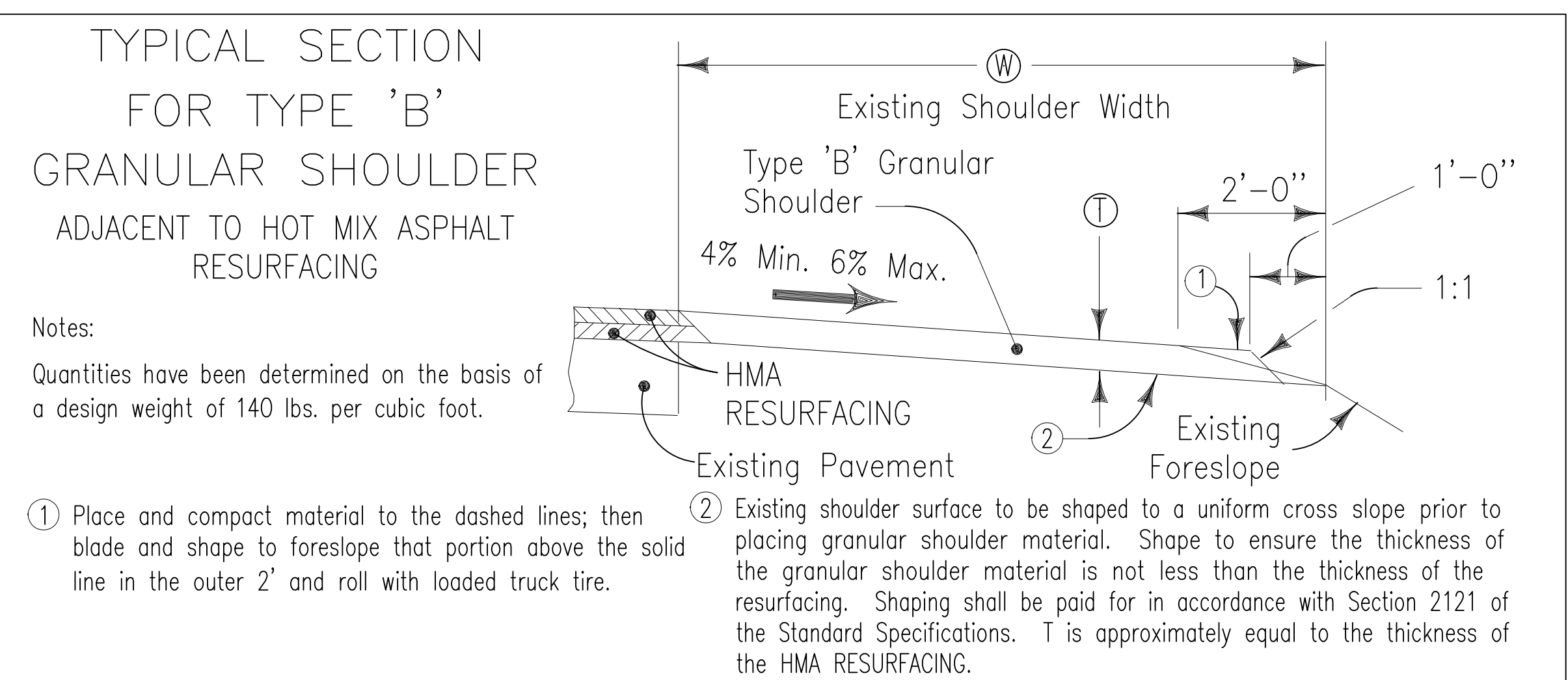
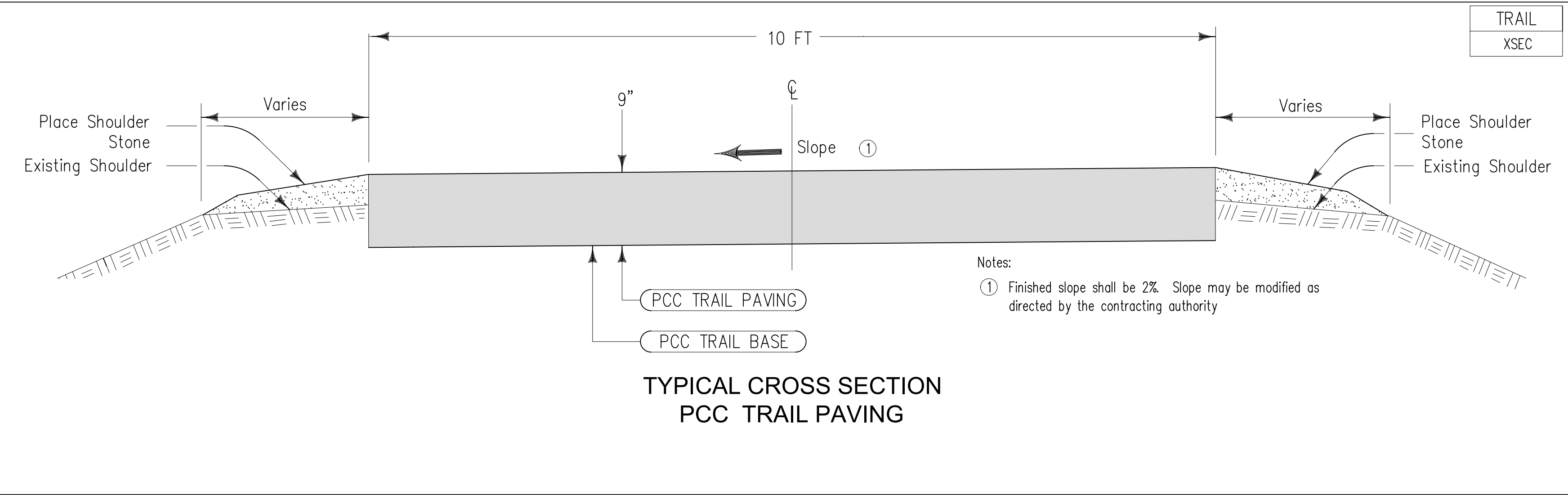
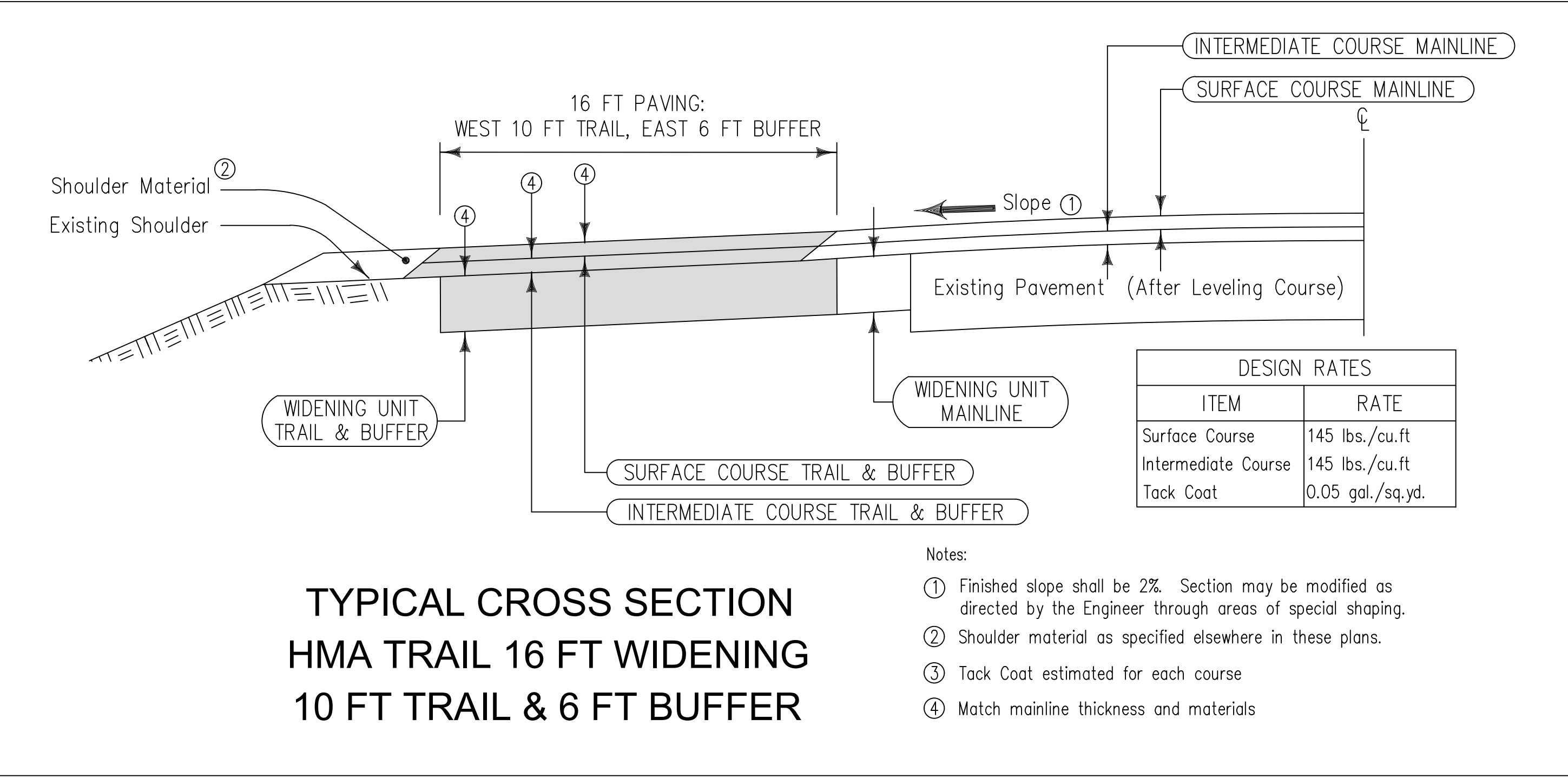


TABLE OF DESIGN* QUANTITIES Per Station										
LOCATION			Ⓒ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	Ⓖ	PCC PAVING	GRANULAR SUBBASE
ROAD IDENTIFICATION	STATION to STATION		Inches	Feet	Feet	Feet	Feet	Inches	SY	SY
T37 Paving: Div.2	0+12	4+25	9.00	22.0	13.5	2.5	1.0	6.0	394.444	472.222

*Design quantities do not include SY for intersections



BID ITEMS							
Ref No.	Item No.	ITEM	UNIT	DIV. I	DIV. II	TOTAL QUANTITY	AS BUILT QUANTITY
1	2102-2713070	EXCAVATION, CLASS 13, ROADWAY AND BORROW	CY	1062.000	845.000	1907.000	
2	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY	1062.000	810.000	1872.000	
3	2111-8174100	GRANULAR SUBBASE	SY	0.000	2180.700	2180.700	
4	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	4383.000	0.000	4383.000	
5	2123-7450020	SHOULDER FINISHING, EARTH	STA	0.000	8.260	8.260	
6	2212-0475095	CLEANING AND PREPARATION OF BASE	MILE	2.454	0.000	2.454	
7	2212-5070310	PATCHES, FULL-DEPTH REPAIR	SY	60.120	0.000	60.120	
8	2212-5070330	PATCHES BY COUNT (REPAIR)	EACH	2.000	0.000	2.000	
9	2213-8201060	BASE WIDENING, 6 IN. HOT MIX ASPHALT MIXTURE	SY	5970.000	0.000	5970.000	
10	2214-5145150	PAVEMENT SCARIFICATION, NOMINAL THICKNESS	SY	1154.400	0.000	1154.400	
11	2301-1034090	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3I DURABILITY, 9 IN.	SY	0.000	1851.000	1851.000	
12	2303-0001000	HOT MIX ASPHALT MIXTURE, WEDGE, LEVELING OR STRENGTHENING COURSE	TON	1500.000	0.000	1500.000	
13	2303-1032500	HOT MIX ASPHALT STANDARD TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX	TON	4395.000	0.000	4395.000	
14	2303-1033504	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-4	TON	4395.000	0.000	4395.000	
15	2303-1258284	ASPHALT BINDER, PG 58-28H, HIGH TRAFFIC	TON	620.000	0.000	620.000	
16	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES	LS	1.000	0.000	1.000	
17	2303-7000610	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE LABORATORY VOIDS (FORMULA - BY PAY FACTOR)	EACH	10290.000	0.000	10290.000	
18	2303-7000620	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE FIELD VOIDS (FORMULA - BY PAY FACTOR)	EACH	10290.000	0.000	10290.000	
19	2317-7000120	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	9970.000	0.000	9970.000	
20	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.	EACH	0.000	1.000	1.000	
21	2435-0250248	INTAKE, SW-502, 48 IN.	EACH	0.000	1.000	1.000	
22	2435-0600110	INTAKE ADJUSTMENT, MINOR	EACH	0.000	1.000	1.000	
23	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.	LF	0.000	22.000	22.000	
24	2503-0124224	STORM SEWER GRAVITY MAIN, TRENCHLESS, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.	LF	0.000	78.000	78.000	
25	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	0.000	6.000	6.000	
26	2506-4984000	FLOWABLE MORTAR	CY	0.000	17.000	17.000	
27	2507-8029000	EROSION STONE	TON	0.000	10.000	10.000	
28	2510-6745850	REMOVAL OF PAVEMENT	SY	0.000	43.100	43.100	
29	2511-0300000	REMOVAL OF RECREATIONAL TRAIL	SY	82.100	0.000	82.100	
30	2511-7526108	SIDEWALK, REINFORCED P.C. CONCRETE, 8 IN.	SY	55.600	0.000	55.600	
31	2511-7528101	DETECTABLE WARNINGS	SF	40.000	0.000	40.000	
32	2512-1725256	CURB AND GUTTER, P.C. CONCRETE, 2.5 FT.	LF	0.000	848.600	848.600	
33	2515-2475007	DRIVEWAY, P.C. CONCRETE, 7 IN.	SY	0.000	75.000	75.000	
34	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	0.000	184.200	184.200	
35	2527-9263217	PAINTED PAVEMENT MARKINGS, DURABLE	STA	394.950	0.000	394.950	
36	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	394.950	0.000	394.950	
37	2528-2518000	SAFETY CLOSURE	EACH	4.000	0.000	4.000	
38	2528-8445110	TRAFFIC CONTROL	LS	1.000	0.000	1.000	
39	2528-8445113	FLAGGERS	EACH	30.000	0.000	30.000	
40	2528-8445115	PILOT CARS	EACH	10.000	0.000	10.000	
41	2533-4980005	MOBILIZATION	LS	1.000	0.000	1.000	
42	2601-2634100	MULCHING	ACRE	0.000	0.250	0.250	
43	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	0.000	0.250	0.250	
44	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT	SQ	0.000	129.000	129.000	
45	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	0.000	130.000	130.000	

GENERAL NOTES:
Adjoining rock road intersections are to be paved. Minor grading will be required. The first lift to be 4" thick and the second lift is to be 2" thick.
Construction Survey to be performed by the contracting authority.
Contractor shall maintain slope away from connection with Iowa DOT roadway IA14/IA175. No work shall be performed within Iowa DOT right-of-way without traffic control. No work shall be closer than 12 feet west of IA14/IA175 centerline other than minor shouldering and clean-up.

Division I County Funded FA Participating		
No	ITEM NUMBER	DESCRIPTION
1	2102-2713070	EXCAVATION, CLASS 13, ROADWAY AND BORROW 4+25 to 133+80, both sides 2' wide. 8' more (10' total) for widening shoulder for bike trail crossing Sta.86+25 to Sta.88+25 RT and Sta.88+00 to Sta.88+25 LT. Place material excavated for widening on existing shoulders from 4+25 to 133+80. Compact after placement. No payment will be allowed for overhaul. Roadway grading Sta.0+12 to Sta.5+00.
2	2102-2713090	EXCAVATION, CLASS 13, WASTE Waste material from 4+25 to 133+80 on the remainder of the existing shoulder and compact.
3	2111-8174100	GRANULAR SUBBASE 6" thick: 0+12 to 4+25
4	2121-7425020	GRANULAR SHOULDERS, TYPE B See sheet B.01
5	2123-7450020	SHOULDER FINISHING, EARTH Sta. 4+25 to 133+80
6	2212-0475095	CLEANING AND PREPARATION OF BASE 4+25 to 133+80
7	2212-5070310	PATCHES, FULL-DEPTH REPAIR 32+35 to 32+85 LT
8	2212-5070330	PATCHES BY COUNT (REPAIR)
9	2213-8201060	BASE WIDENING, 6 IN. HOT MIX ASPHALT MIXTURE 4+25 to 133+80 LT/RT 2' wide except A Ave and paved drives. Mix Aggregates shall be Type A.
10	2214-5145150	PAVEMENT SCARIFICATION, NOMINAL THICKNESS All materials not incorporated into the project shall become the property of the contractor. All hard surface drives and intersecting roadways shall have milled butt joints as specified by the Contracting Authority. See sheet C.03
11	2301-1034090	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3I DURABILITY, 9 IN.
12	2303-0001000	HOT MIX ASPHALT MIXTURE, WEDGE, LEVELING OR STRENGTHENING COURSE Sta.4+25 to 133+80 LT/RT. Certified plant inspection required. See sheet B.01
13	2303-1032500	HOT MIX ASPHALT STANDARD TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX This item is increased by 5% for irregularities, fillets, and intersections. Design weight 145 lbs per cubic foot. Mix Aggregates shall be Type A. This item shall be constructed in one lift of 2.0". Fillets at intersections are to be a minimum of 8' wide, entrance fillets are to be 4' wide, and mailbox turnouts are to be 2' to 4' wide. Rate for applying tack coat shall be 0.05 gal/sq.yd. Tack shall not be applied without approval of the contracting authority. Class I compaction required for this project. Certified plant inspection required. See sheet B.01
14	2303-1033504	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-4 This item is increased by 5% for irregularities, fillets, and intersections. Design weight 145 lbs per cubic foot. Mix Aggregates shall be Type A. This item shall be constructed in one lift of 2.0". Fillets at intersections are to be a minimum of 8' wide, entrance fillets are to be 4' wide, and mailbox turnouts are to be 2' to 4' wide. Rate for applying tack coat shall be 0.05 gal/sq.yd. Tack shall not be applied without approval of the contracting authority. Class I compaction required for this project. Certified plant inspection required. See sheet B.01
15	2303-1258284	ASPHALT BINDER, PG 58-28H, HIGH TRAFFIC Asphalt binder quantities figured at 6.00%.
16	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES Samples shall be delivered to Iowa DOT District 1 Materials Lab
17	2303-7000610	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE LABORATORY VOIDS (FORMULA - BY PAY FACTOR)
18	2303-7000620	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE FIELD VOIDS (FORMULA - BY PAY FACTOR)
19	2317-7000120	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)

Division II CSTEP Funded		
No	ITEM NUMBER	DESCRIPTION
20	2416-0100024	APRONS, CONCRETE, 24 IN. DIA. Storm sewer outlet
21	2435-0250248	INTAKE, SW-502, 48 IN. 0+38.49 37.96 LT
22	2435-0600110	INTAKE ADJUSTMENT, MINOR 0+22.79 41.38 RT
23	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.
24	2503-0124224	STORM SEWER GRAVITY MAIN, TRENCHLESS, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.
25	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.
26	2506-4984000	FLOWABLE MORTAR Includes 17 CY for filling an existing culvert. Silt inside the existing culvert must be removed before filling.
27	2507-8029000	EROSION STONE Storm sewer outlet
28	2510-6745850	REMOVAL OF PAVEMENT Sta.0+12 to Sta. 4+25 assumed to be 12" thick. Actual thickness unknown.
29	2511-0300000	REMOVAL OF RECREATIONAL TRAIL 86+43 RT 43.7 SY, 84+25 LT 38.4 SY
30	2511-7526108	SIDEWALK, REINFORCED P.C. CONCRETE, 8 IN.
31	2511-7528101	DETECTABLE WARNINGS 86+43 LT and RT at trail crossing. See sheet D.03
32	2512-1725256	CURB AND GUTTER, P.C. CONCRETE, 2.5 FT. See sheet B.01. Class C, Class 3I Durability
33	2515-2475007	DRIVEWAY, P.C. CONCRETE, 7 IN. Sta.0+70 LT 19.2 SY, 0+90 RT 8.7 SY, and 2+65 RT 47.1 SY
34	2515-6745600	REMOVAL OF PAVED DRIVEWAY 0+70 LT 68.2 SY, 0+90 RT 58.9 SY, 2+65 RT 57.1 SY
35	2527-9263217	PAINTED PAVEMENT MARKINGS, DURABLE See sheet C.03 some markings on trail and crossing
36	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS See sheet C.03 some markings on trail and crossing
37	2528-2518000	SAFETY CLOSURE B.O.P. 0+12, 3+70 W Ave, 5+00, 26+30 A Ave, 225th St, 133+80
38	2528-8445110	TRAFFIC CONTROL Refer to Traffic Control Plan on Sheet A.01
39	2528-8445113	FLAGGERS
40	2528-8445115	PILOT CARS
41	2533-4980005	MOBILIZATION
42	2601-2634100	MULCHING All areas disturbed by grading Sta. 0+12 to Sta. 4+25
43	2601-2636044	SEEDING AND FERTILIZING (URBAN) All areas disturbed by grading Sta. 0+12 to Sta. 4+25
44	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT See sheet C.04
45	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA. See sheet C.04

ROLLED EROSION CONTROL												
Refer to EC-101, EC-103, and EC-104.												
This Data Entry Sheet fills Tab 100-22 effective 04-21-15												
Location				L	W	Turf Reinforcement Mat (TRM) (EC-104)				Slope Protection (EC-103)	Special Ditch Control (EC-101)	Remarks
Road Identification	Begin Station	End Station	Side			Type 1	Type 2	Type 3	Type 4			
						FT	FT	Squares	Squares	Squares	Squares	
T37/IA175	0+12	0+50	L	100	20.0					20.0		Width average
T37/IA175	0+12	0+50	R	25	20.0					5.0		Width average
T37/M Ave	0+50	4+50	L	400	9.0					36.0		
T37/M Ave	0+50	4+50	R	400	17.0					68.0		
Total:										129.0		

PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES								
Possible Standards: EC-204								
This Data Entry Sheet fills Tab 100-19 effective 10-19-21								
Location			Perimeter and Slope			Ditch Check		Remarks
Begin Station	End Station	Side	Length of Installation			Length of Installation		
			9 inch Dia	12 inch Dia	20 inch Dia	12 inch Dia	20 inch Dia	
			LF	LF	LF	LF	LF	
	0+20	L				20		In IA175 north ditch
0+20	0+55	R		50				Back of curb at radius
	1+10	R				20		
	2+50	L				20		
	2+85	R				20		
Subtotal:				50	Subtotal:	80	Total:	130



