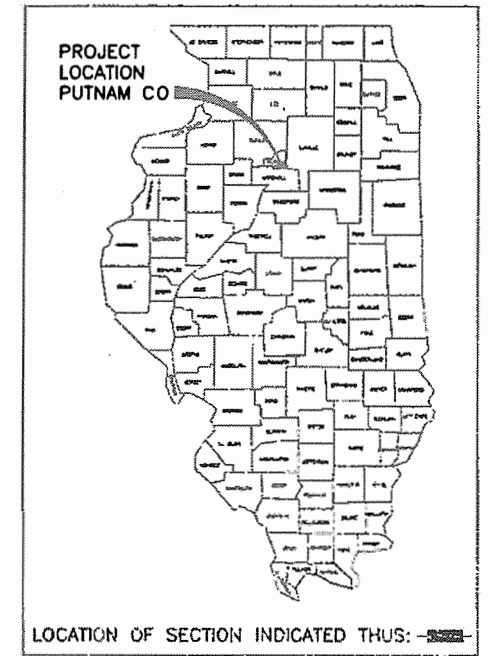


07-30-2021 LETTING ITEM 058

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

McNABB BLACKTOP ROAD
CH 11 / FAS 254
RESURFACE AND WIDENING
SECTION: 20-00031-00-RS
PROJECT: 2KRR(514)
C-94-031-21
PUTNAM COUNTY, ILLINOIS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
254	20-00031-00-RS	PUTNAM	14	1
FED. ROAD DIST. NO. _____		ILLINOIS	CONTRACT NO. 89807	



INDEX OF SHEETS

- 1 TITLE SHEET
- 2 GENERAL NOTES & SUMMARY OF QUANTITIES
- 3 SCHEDULE OF QUANTITIES
- 4 TYPICAL SECTIONS
- 5-6 PROJECT ROAD WAY PLAN
- 7 EXISTING PIPE CULVERT STA. 31+30
- 8 EXISTING CULVERT STA. 39+52
- 9 PROPOSED IMPROVEMENTS EXISTING CULVERT STA. 39+52
- 10 MISCELLANEOUS DETAIL
- 11-12 GUARDRAIL EROSION CONTROL TREATMENTS (630101-D4)
- 13-14 TYPICAL PAVEMENT MARKINGS (780001-D4)

HIGHWAY STANDARDS
280001
542501-02
630001-12

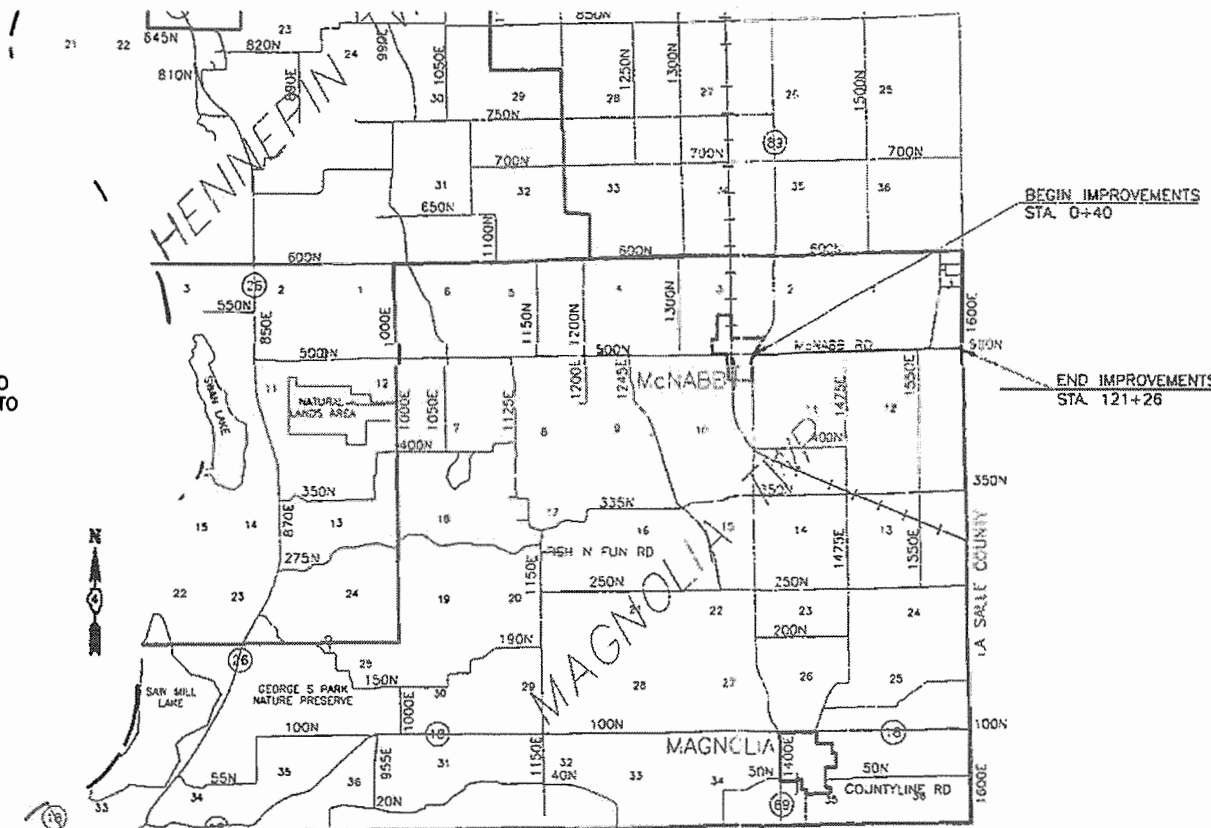
630111-01
630301-09
701001-02
701006-05
701011-05
701301-04
701306-04
701311-03
701326-04
701901-08

CURRENT ADT = 400
DESIGN TRAFFIC = 550
DESIGN SPEED = 50 MPH

SCALES:



FULL SIZE PLANS (22x34) HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZE PLANS WILL NOT CONFORM TO STANDARD SCALES.



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED May 5, 2021
Pat L. Sloan
PUTNAM COUNTY ENGINEER

PASSED 05-25 2021
[Signature]
DISTRICT FOUR ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON May 27 2021
LIMITED REVIEW
[Signature]
REGION THREE ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CALL JULIE 1-800-892-0123 WITH THE FOLLOWING:
COUNTY: PUTNAM
CITY-TOWNSHIP: MAGNOLIA
SEC & 1/4 SEC. NO. 1,2,11,12
48 HOURS BEFORE YOU DIG.
EXCLUDING SAT., SUN., & HOLIDAYS

OPERATES 24 HOURS 365 DAYS

DESIGNED BY: MARSHALL-PUTNAM COUNTY HIGHWAY DEPARTMENT
PH: 309-246-6401
CATALOG NUMBER: 036145-00D
CONTRACT NUMBER: 89807

COUNTY HIGHWAY 11 / FAS 254
MCNABB BLACKTOP ROAD
SECTION NO. 20-00031-00-RS
TOTAL LENGTH 12,086 FT. = 2.29 MILES.

Pat L. Sloan 5-5-2021
PATRICK SLOAN, PE DATE
LICENSED PROFESSIONAL ENGINEER
ILLINOIS NO. 43444 EXPIRES 11-30-21



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES:

THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016 AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2021 SHALL GOVERN THE CONSTRUCTION OF THE PROPOSED WORK EXCEPT AS MODIFIED BY THE DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES ON SITE PRIOR TO ANY CONSTRUCTION AND WILL BE HELD RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THEIR FACILITIES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 1-800-892-0123 FOR UTILITY LOCATIONS.

THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINE AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.

ALL EXISTING SURROUNDING AREAS AND PROPERTIES SHALL BE PROTECTED FROM DAMAGE AND LEFT UNDAMAGED BY THE OPERATION OF THE CONTRACTOR. ANY OF THE SURROUNDING PROPERTY DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO AN EQUAL OR BETTER CONDITION THAN WHAT EXISTED PRIOR TO CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.

ADJUSTMENTS OF PROPOSED GRADES TO MATCH EXISTING ENTRANCES OR OTHER FIELD CONDITIONS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.

THE SUMMARY OF QUANTITIES HAS BEEN PROVIDED FOR THE CONTRACTOR'S REFERENCE. CONTRACTOR IS ALERTED TO THE FACT THAT THESE NUMBERS ARE ESTIMATES AND IT IS RECOMMENDED THAT THE CONTRACTOR VERIFY QUANTITIES PRIOR TO ORDERING MATERIALS.

THE OWNER RESERVES THE RIGHT TO REDUCE ANY QUANTITY OR DELETE PAY ITEMS FROM THIS CONTRACT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

EXCESS MATERIAL, IF NOT USED FOR OTHER ON-SITE PURPOSES, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.08 OF THE I.D.O.T. STANDARD SPECIFICATIONS, UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH PROPERTY OWNER AND A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

EXISTING ROAD SIGNS THAT INTERFERE WITH THE CONSTRUCTION WILL BE RELOCATED AS DIRECTED BY THE ENGINEER OR OWNER, AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL REPLACE THE SIGNS AS DIRECTED, SIGN REMOVAL, STORAGE AND RELOCATION'S SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND WILL NOT BE PAID FOR SEPARATELY.

THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION, FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.

CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED.

ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE REQUIRED ENVIRONMENTAL RESOURCE REQUEST IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (BORROW SITE REVIEW)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM-D4 P10101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCE AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

PAVING SURFACE COURSE

CONTINUOUS PAVING OPERATIONS IN THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

ORDERING LENGTH CONFIRMATION -- DRAINAGE ITEMS

THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXCACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS.

COMMITMENTS

THERE ARE NO COMMITMENTS.

SUMMARY OF QUANTITIES

ITEM PAY CODE	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	1751
28100225	STONE RIPRAP, CLASS B3	TON	34
28200200	FILTER FABRIC	SQ YD	104
28400100	GABIONS	CU YD	4
35101400	AGGREGATE BASE COURSE, TYPE B	TON	3551
40600275	BITUMINOUS MATERIAL (PRIME COAT)	POUND	11684
40600295	POLYMERIZED BIT MTL (TACK COAT)	POUND	43197
40600982	HMA SURFACE REMOVAL-BUTT JOINT	SQ YD	229
40602978	HMA BINDER COURSE IL-9.5 N50	TON	3317
40604050	HOT-MIX ASPH SURF CSE, IL-9.5, MIX "C", N50	TON	2553
40800050	INCIDENTAL HMA SURFACING	TON	60
48102100	AGG WEDGE SHOULDERS, TYPE B	TON	342
50105220	PIPE CULVERT REMOVAL	FOOT	26
54262712	METAL FLARED END SECTIONS, 12"	EACH	2
54262724	METAL FLARED END SECTIONS, 24"	EACH	1
542C0217	PIPE CULVERTS, CLASS C, TYPE 1, 12"	FOOT	32
△ 63000001	SPBGR TYA 6FT POST	FOOT	200
△ 63000050	WEAK POST GUARDRAIL ATTACHED TO CULVERT CASE I	FOOT	38
△ 63100169	TR BAR TERMINAL T1 SPECIAL FLARED	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	180
67100100	MOBILIZATION	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1208
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	403
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1208
△ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
△ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	30945
△ 78200005	GUARDRAIL REFLECTORS	EACH	4
X1200108	INLET BOX, SPECIAL	EACH	1
X5012502	CONCRETE REMOVAL (SPECIAL)	CU YD	1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	24
Z0013798	CONSTRUCTION LAYOUT	L SUM	1

△ SPECIALTY ITEMS

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

SURFACE TYPE	RESIDUAL RATE
MILLED (HMA OR PCC)	0.08 LB/SF
EXISTING PAVEMENT	0.08 LB/SF
FOG COAT (BETWEEN LIFTS)	0.08 LB/SF

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S):	SURFACE, INCIDENTAL	LEVELING BINDER
AC/PG:	64-22	64-22
DESIGN AIR VOIDS:	4% @ N50	4% @ N50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5	IL-9.5
FRICTION AGGREGATE:	MIX "C"	N/A
QUALITY MANAGEMENT:	QCQA	QCQA

**MARSHALL-PUTNAM
COUNTY HIGHWAY DEPARTMENT**

DESIGNED -- PGS	DATE
CHECKED -- PGS	
DRAWN -- JLP	REVISED
CHECKED -- PGS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND SUMMARY OF QUANTITIES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
254	20-00031-00-RS	PUTNAM	14	2
FED. ROAD DIST. NO. _		ILLINOIS CONTRACT NO. 89807		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

20200100 EARTH EXCAVATION

LOCATION	DEPTH INCHES	LENGTH FOOT	UNIT CU YD
0+80 TO 51+70 11' RT	12	5090	377
31+00 TO 31+80 LT			20
52+34 TO 92+20 RT	12	3986	295
92+86 TO 119+41 RT	12	2655	197
0+80 TO 99+66 11' LT	12	9886	732
100+50 TO 118+00 11' LT	12	1750	130
TOTALS		23367	1751

28100225 STONE RIPRAP, CLASS B3

LOCATION	UNIT TON
31+18 TO 31+42 LT	11
31+25 TO 31+35 RT	3
39+36 TO 31+46 RT	5
39+36 TO 31+46 LT	5
39+56 TO 39+68 RT	5
39+56 TO 39+68 LT	5
TOTAL	34

28200200 FILTER FABRIC

LOCATION	UNIT SQ YD
31+18 TO 31+42 LT	43
31+25 TO 31+35 RT	9
39+36 TO 39+48 RT	13
39+36 TO 39+48 LT	13
39+56 TO 39+68 RT	13
39+56 TO 39+68 LT	13
TOTAL	104

28400100 GABIONS

LOCATION	UNIT CU YD
31+18 TO 31+42 35' LT	4
TOTAL	4

35101400 AGGREGATE BASE COURSE, TYPE B

LOCATION	UNIT TON
0+80 TO 51+70 11' RT	764
52+34 TO 92+20 RT	598
92+86 TO 119+41 RT	398
0+80 TO 99+66 11' LT	1483
100+50 TO 118+00 11' LT	263
DRIVEWAYS	46
TOTAL	3551

40600275 BITUMINOUS MATERIAL (PRIME COAT)

LOCATION	UNIT SQ YD	UNIT POUNDS
0+80 to 119+41 RT AND LT	5193	11684

40600295 POLYMERIZED BIT MTL (TACK COAT)

LOCATION	LENGTH FOOT	EXISTING WIDTH FT	AREA SQ FT	UNIT POUNDS	FOG WIDTH FT	AREA SQ FT	UNIT POUNDS
0+40 to 52+06 RT	5166	10	51660	4133	11.5	59409	4753
52+06 to 92+51 RT	4045	10	40450	3236	11.5	46518	3721
92+51 to 121+26 RT	2875	10	28750	2300	11.5	33063	2645
0+40 to 52+06 LT	5166	10	51660	4133	11.5	59409	4753
52+06 to 92+51 LT	4045	10	40450	3236	11.5	46518	3721
92+51 to 121+26 LT	2875	10	28750	2300	11.5	33063	2645
ENTRANCES AND MAILBOXES			5274	422		5274	422
SIDERoads			4860	389		4860	389
TOTAL			20149	16329		23049	18943
TOTAL							43197

40602978 HMA BINDER COURSE IL-9.5 N50

LOCATION	LENGTH FOOT	WIDTH FOOT	AREA SQ YD	UNIT TON
0+40 to 52+06 RT	5166	11.2	6429	704
52+06 to 92+51 RT	4045	11.2	5034	551
92+51 to 121+26 RT	2875	11.2	3578	392
0+40 to 52+06 LT	5166	11.2	6429	704
52+06 to 92+51 LT	4045	11.2	5034	551
92+51 to 121+26 LT	2875	11.2	3578	392
ENTRANCES AND MAILBOXES				23
TOTAL				3317

40600982 HMA SURFACE REMOVAL

LOCATION	UNIT SQ YD	DESCRIPTION
0+40 TO 0+63	80	BUTT JOINT PARALLEL TO RT. 89 BEGIN PROJECT
51+94 TO 52+18	21	BUTT JOINT 40' RT - 1475 E
92+40 TO 92+62	20	BUTT JOINT 40' RT - 1550 E
99+97 TO 100+21	31	BUTT JOINT 40' LT - STATE ST.
118+25 TO 118+49	21	BUTT JOINT 40' LT - MERIDIAN RD.
121+06 TO 121+26	56	BUTT JOINT - END PROJECT
TOTAL	229	

40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

LOCATION	LENGTH FOOT	WIDTH FOOT	AREA SQ YD	UNIT TON
0+40 to 52+06 RT	5166	11.1	6371	535
52+06 to 92+51 RT	4045	11.1	4989	419
92+51 to 121+26 RT	2875	11.1	3546	298
0+40 to 52+06 LT	5166	11.1	6371	535
52+06 to 92+51 LT	4045	11.1	4989	419
92+51 to 121+26 LT	2875	11.1	3546	298
ENTRANCES/MAILBOXES				49
TOTAL				2553

40800050 INCIDENTAL HMA

LOCATION	AREA SQ YD	UNIT TON
52+06 RT 1475 E	125	14
92+51 RT 1550 E	145	16
100+09 LT STATE ST	125	14
118+48 LT MERIDIAN	145	16
TOTAL	60	

48102100 AGGREGATE WEDGE SHOULDERS, TYPE B

LOCATION	LENGTH FOOT	UNIT TON
0+40 to 52+06 RT	5166	73
52+06 to 92+51 RT	4045	87
92+51 to 121+26 RT	2875	41
0+40 to 52+06 LT	5166	73
52+06 to 92+51 LT	4045	57
92+51 to 121+26 LT	2875	41
TOTAL	342	

50105220 PIPE CULVERTS REMOVAL

LOCATION	LENGTH FOOT
18+18 23' RT	26

542C0217 PIPE CULVERTS, CLASS C, TYPE 1, 12"

LOCATION	UNIT FOOT
18+02 TO 18+34 23' RT	32

54262712 METAL FLARED END SECTIONS, 12"

LOCATION	UNIT EACH
18+02 23' RT	1
18+34 33' RT	1
TOTAL	2

54262724 METAL FLARED END SECTIONS, 24"

LOCATION	UNIT EACH
31+30 21' RT	1

63000001 SPBGR TYA 6FT POST

LOCATION	UNIT FOOT
38+93 TO 39+43 RT	50
38+93 TO 39+43 LT	50
39+61 TO 41+11 RT	50
39+61 TO 41+11 LT	50
TOTAL	200

63100169 TRF TERMINAL T1 SPECIAL FLARED

LOCATION	UNIT EACH
38+55 TO 38+93 RT	1
38+55 TO 38+93 LT	1
40+11 TO 40+49 RT	1
40+11 TO 40+49 LT	1
TOTAL	4

63200310 GUARDRAIL REMOVAL

LOCATION	UNIT FOOT
39+02 TO 39+92 RT	90
39+17 TO 40+07 LT	90
TOTAL	180

63000050 WEAK POST GUARDRAIL ATTACHED TO CULVERT CASE I

LOCATION	UNIT FOOT
39+43 TO 39+62 15' RT	19
39+43 TO 39+62 15' LT	19
TOTAL	38

70300100 SHORT TERM PAVEMENT MARKING

LOCATION	UNIT
YELLOW 4' PER 40'	
0+40 TO 121+26	1208

70300150 SHORT TERM PAVEMENT MARKING REMOVAL

LOCATION	SQ FT
0+40 TO 121+26	403

72501000 TERMINAL MARKER DIRECT APPLIED

LOCATION	EACH
39+05 R/L	2
39+99 R/L	2
TOTAL	4

78001110 PAINT PAVEMENT MARKING - LINE 4"

LOCATION	YELLOW			NO PASS
	SKIP	SOLID	WHITE	
0+40 TO 44+48	1112		8896	
44+48 TO 50+50	151	602	1204	EB
50+50 TO 53+14		66	468	
53+14 TO 58+16	126	502	1004	WB
58+16 TO 94+35	905	7138		
94+35 TO 103+31	224	896	1732	EB
103+31 TO 105+64		58	466	
105+64 TO 109+69	101	405	810	WB
109+69 TO 111+06	274	274		EB & WB
111+06 TO 118+38	183	732	1464	EB
118+38 TO 121+26	576	576		EB & WB
TOTALS	2926	3987	24032	
TOTAL YELLOW & WHITE	30945			

78200005 GUARDRAIL REFLECTORS

LOCATION	UNIT EACH
39+05 TO 39+99 R/L	4

X1200108 INLET BOX, SPECIAL

LOCATION	UNIT EACH
31+30 21' LT	1

X5012502 CONCRETE REMOVAL (SPECIAL)

LOCATION	CU YD
31+30 21' LT	1

X7010216 TRAFFIC CONTROL AND PROTECTION, (SPECIAL) L SUM 1

Z0001002 GUARDRAIL AGGREGATE EROSION CONTROL

LOCATION	UNIT TON
39+05 TO 39+48 LT	6
39+05 TO 39+48 RT	6
39+56 TO 39+99 LT	6
39+56 TO 39+99 RT	6
TOTAL	24

Z0013798 CONSTRUCTION LAYOUT L SUM 1

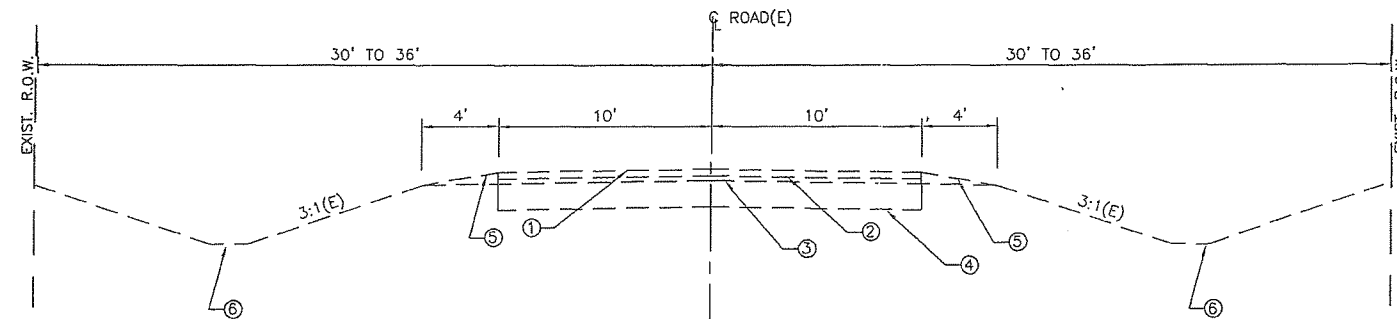
**MARSHALL-PUTNAM
COUNTY HIGHWAY DEPARTMENT**

DESIGNED -- PGS	DATE
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DRAWN -- JLP	REVISED
CHECKED -- PGS	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

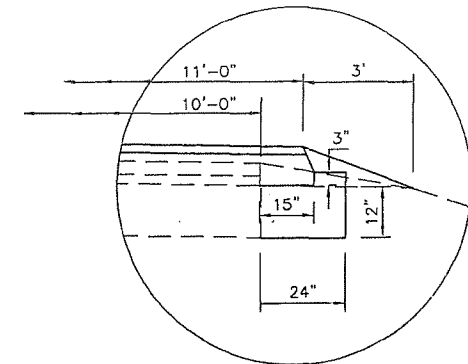
SCHEDULE OF QUANTITIES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
254	20-00031-00-RS	PUTNAM	14	3
FED. ROAD DIST. NO. -		ILLINOIS	CONTRACT NO. 89807	



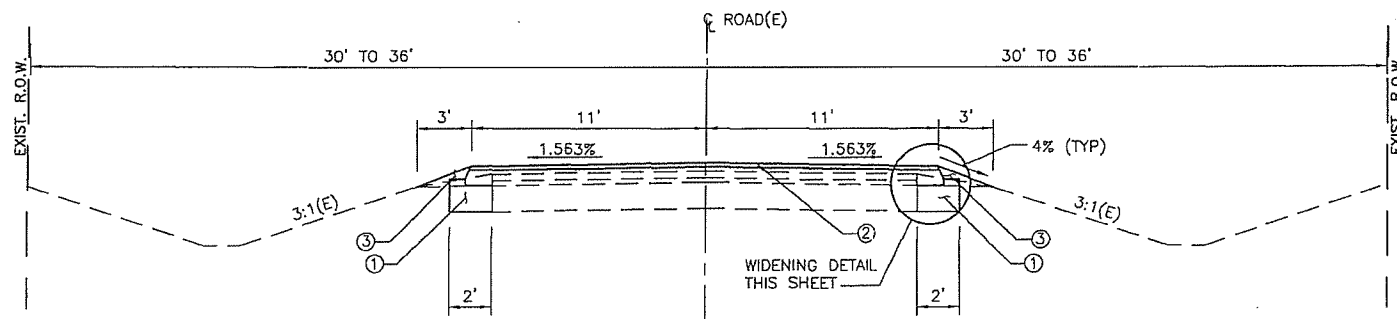
- ① EXISTING 1 1/2" BITUMINOUS CONCRETE SURFACE COURSE
- ② EXISTING 3" BITUMINOUS CONCRETE BINDER COURSE
- ③ EXISTING BITUMINOUS PLANT MIX SURFACE
- ④ EXISTING AGGREGATE BASE
- ⑤ EXISTING 4'-0" AGGREGATE SHOULDER
- ⑥ EXISTING DITCH

TYPICAL EXISTING SECTION



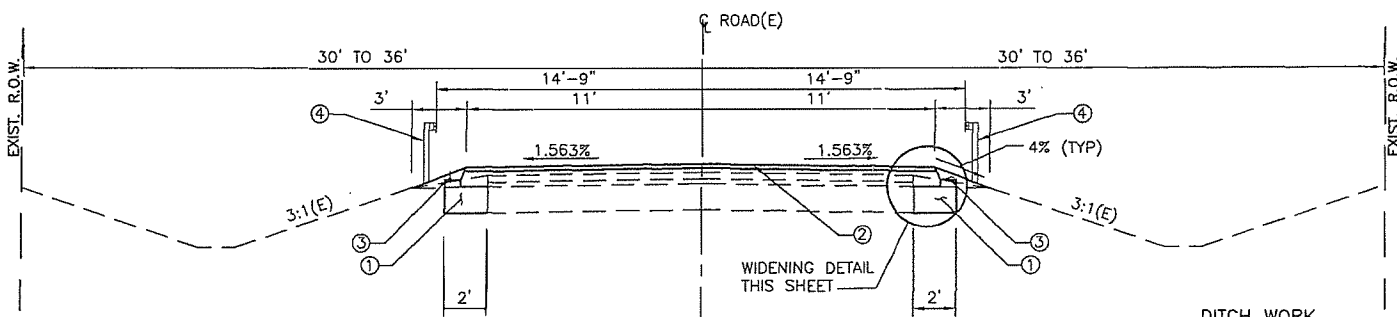
WIDENING DETAIL

1. EXCAVATE 12"x24" TRENCH ADJACENT TO PAVEMENT
2. PLACE 12" MINIMUM THICKNESS AGGREGATE BASE COURSE IN TRENCH AND COMPACT TO THE TOP OF THE EXISTING PAVEMENT.
3. REMOVE 3"x15" NEWLY COMPACTED AGGREGATE BASE COURSE THAT IS ADJACENT TO EXISTING PAVEMENT. PLACE WASTE AGGREGATE IN THE SHOULDER AREA.
4. PLACE HMA BINDER IN 3"x15" NOTCH DURING BINDER LIFT. THICKNESS AT EDGE WILL BE A MINIMUM OF 4 1/2" INCHES.



- ① PROPOSED 12"x2'-0" AGGREGATE WIDENING
- ② PROPOSED 1 1/2" HMA SURFACE COURSE, IL-9.5, MIX "C" N50
- ③ PROPOSED 3"x3'-0" AGGREGATE WEDGE SHOULDERS

**TYPICAL PROPOSED SECTION
STA. 0+40 TO STA. 121+26**



- ① PROPOSED 12"x2'-0" AGGREGATE WIDENING
- ② PROPOSED 1 1/2" HMA ASPHALT SURFACE COURSE, IL-9.5, MIX "C" N50
- ③ PROPOSED 3"x3'-0" AGGREGATE WEDGE SHOULDERS, TYPE B
- ④ PROPOSED GUARDRAIL

**TYPICAL PROPOSED SECTION
STA. 31+02 TO STA. 40+02
CULVERT NOT SHOWN**

**MARSHALL-PUTNAM
COUNTY HIGHWAY DEPARTMENT**

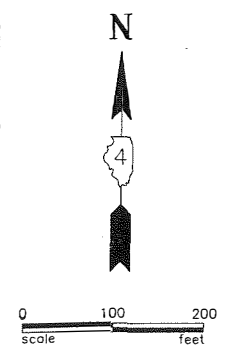
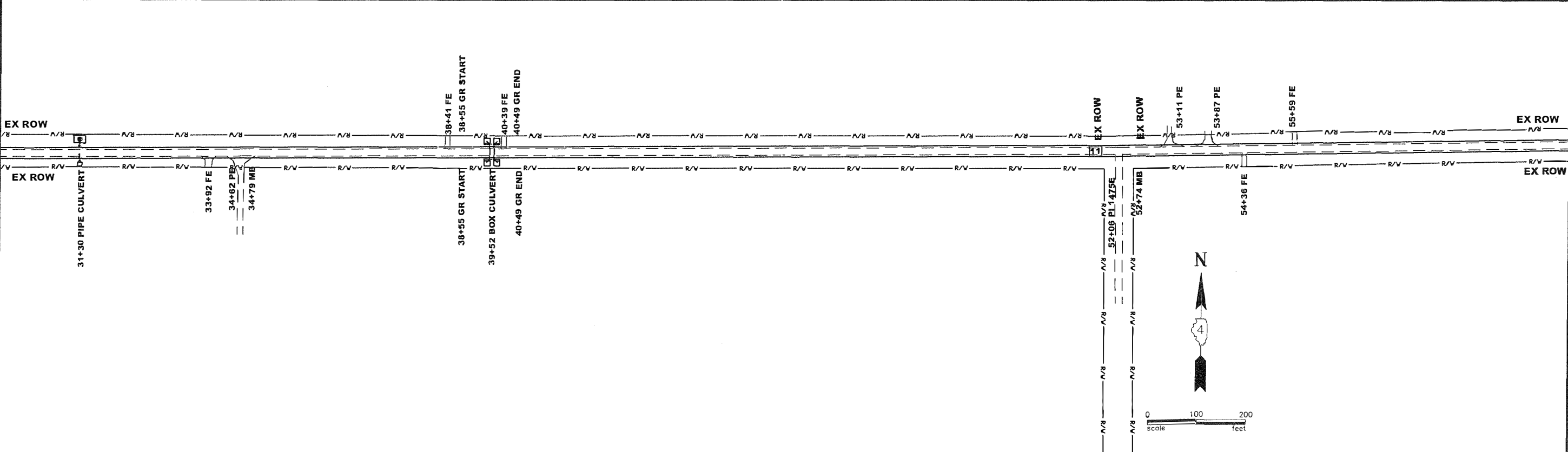
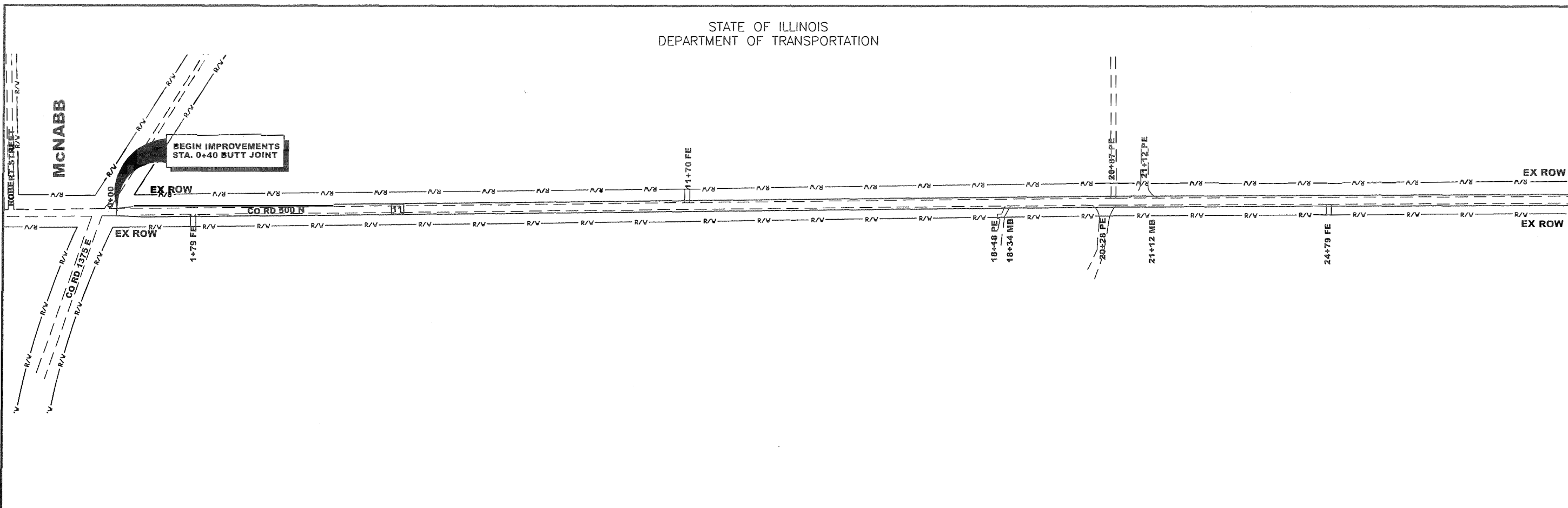
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
254	20-00031-00-RS	PUTI NAM	14	4
FED. ROAD DIST. NO. _		ILLINOIS	CONTRACT NO. 89807	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



**MARSHALL-PUTNAM
COUNTY HIGHWAY DEPARTMENT**

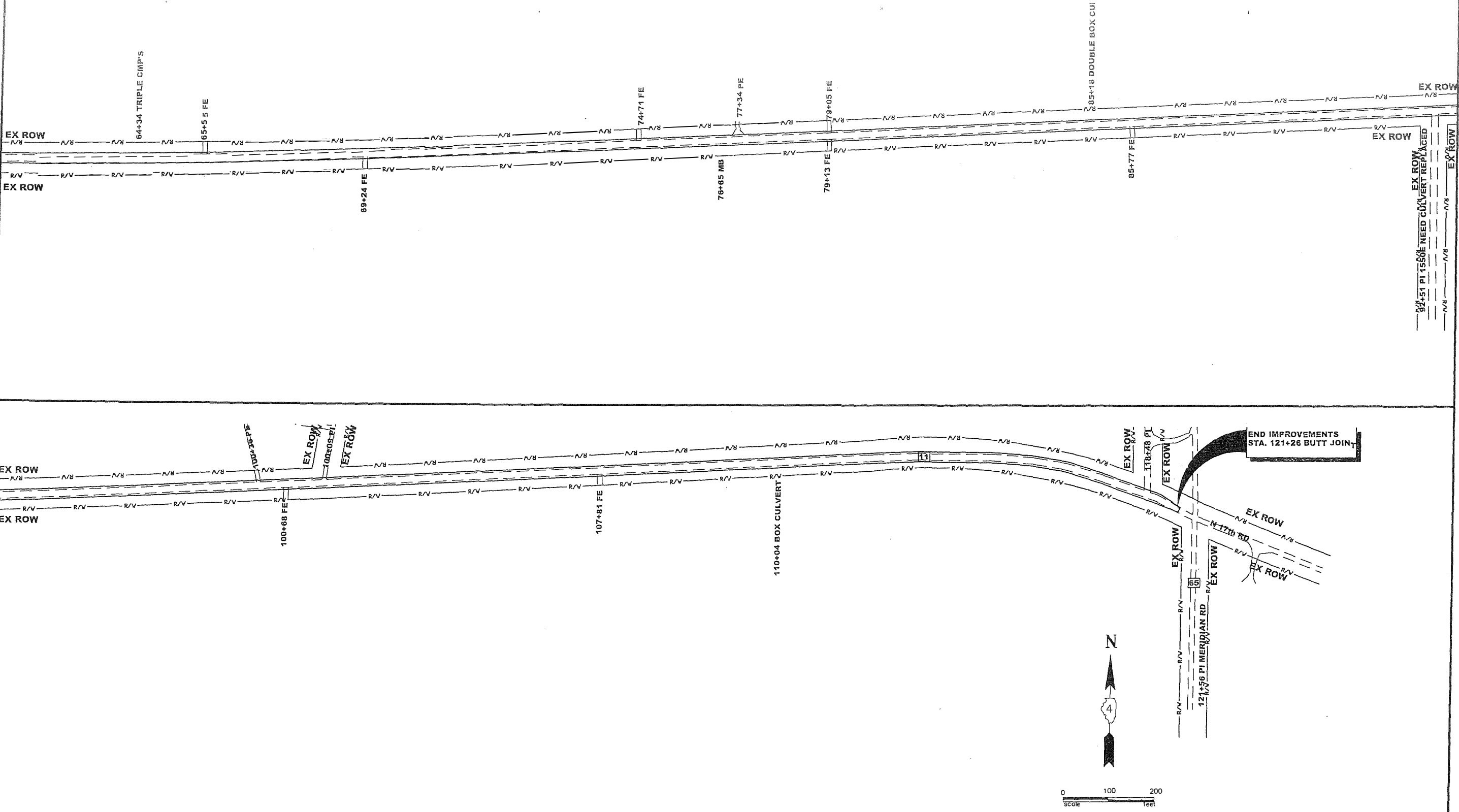
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DRAWN — JLP	REVISED
CHECKED — PGS	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

McNABB BLACKTOP

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
254	20-00031-00-RS	PUTNAM	14	5
FED. ROAD DIST. NO. ...		ILLINOIS CONTRACT NO. 89807		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



MARSHALL-PUTNAM
COUNTY HIGHWAY DEPARTMENT

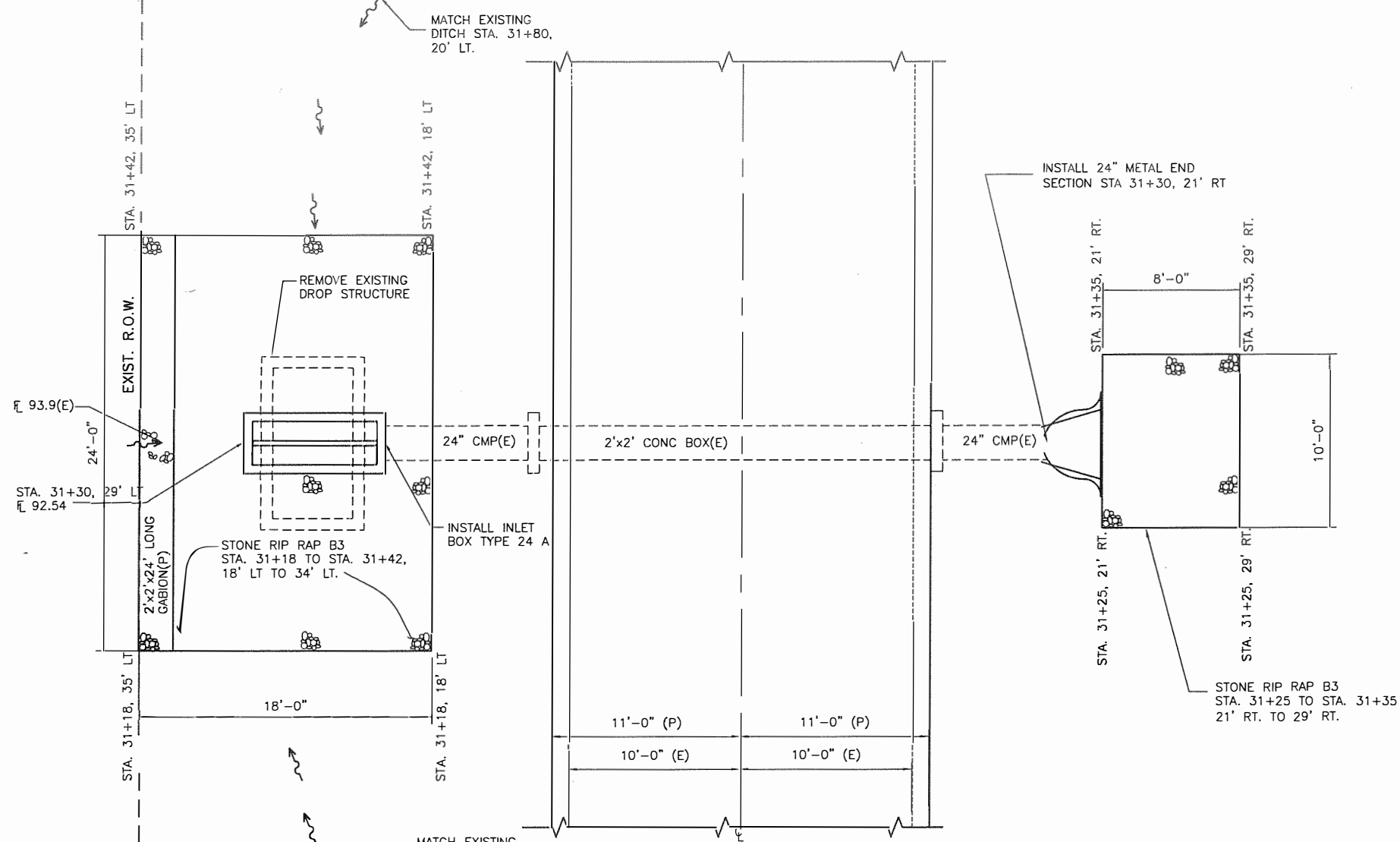
DESIGNED	PGS	DATE
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DRAWN	JLP	REVISED
CHECKED	PGS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

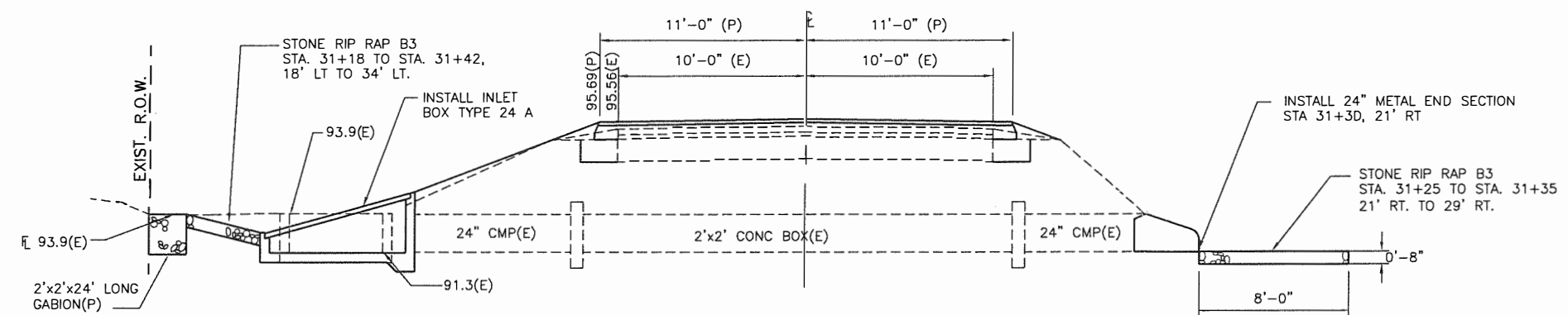
McNABB BLACKTOP

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
254	20-00031-00-RS	PU TNAM	14	6

FED. ROAD DIST. NO. ILLINOIS CONTRACT NO. 89807



PLAN VIEW CULVERT
STATION 31+30



SECTION VIEW CULVERT
STATION 31+30

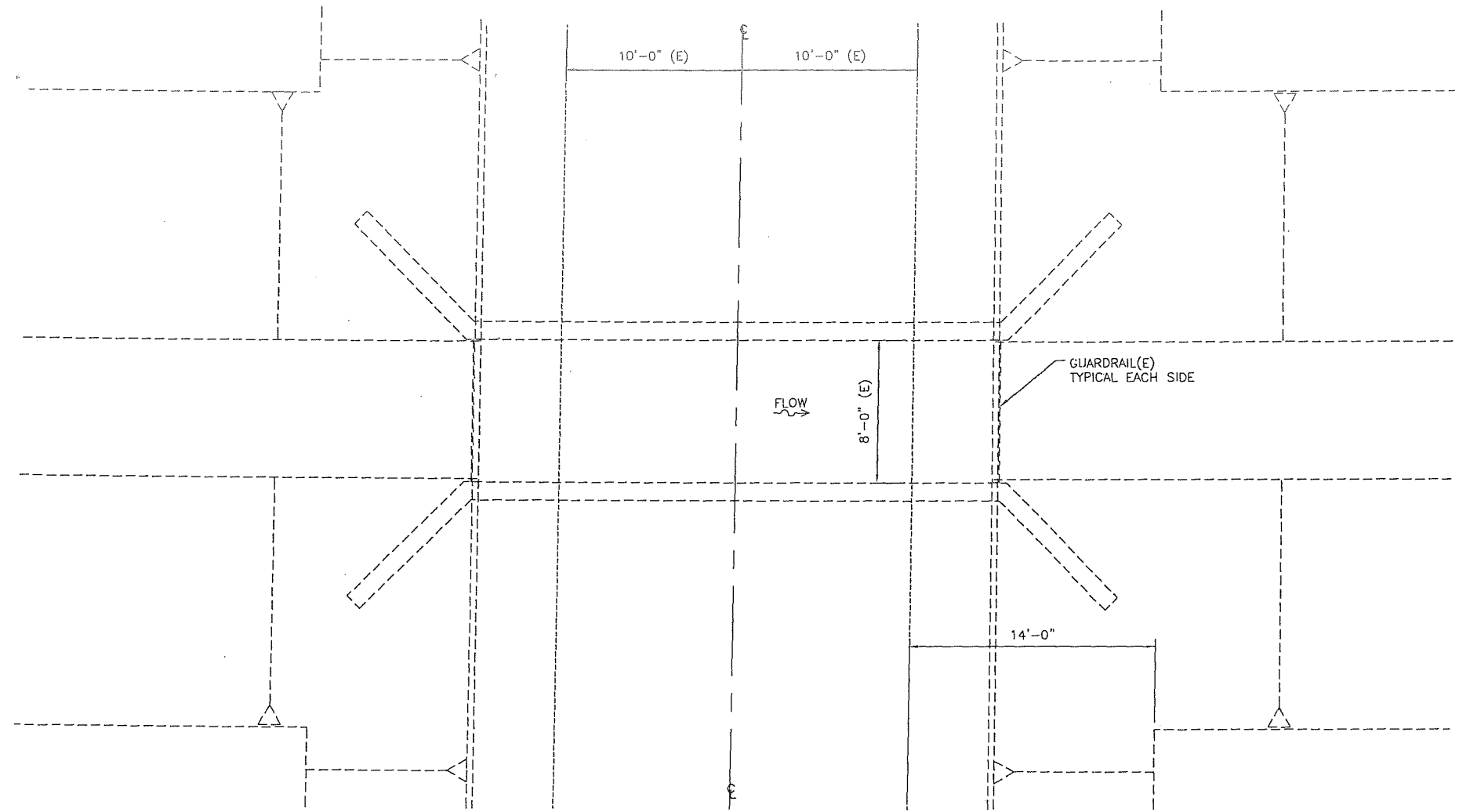
MARSHALL-PUTNAM
COUNTY HIGHWAY DEPARTMENT

DESIGNED - PGS	REVISED
CHECKED - PGS	REVISED
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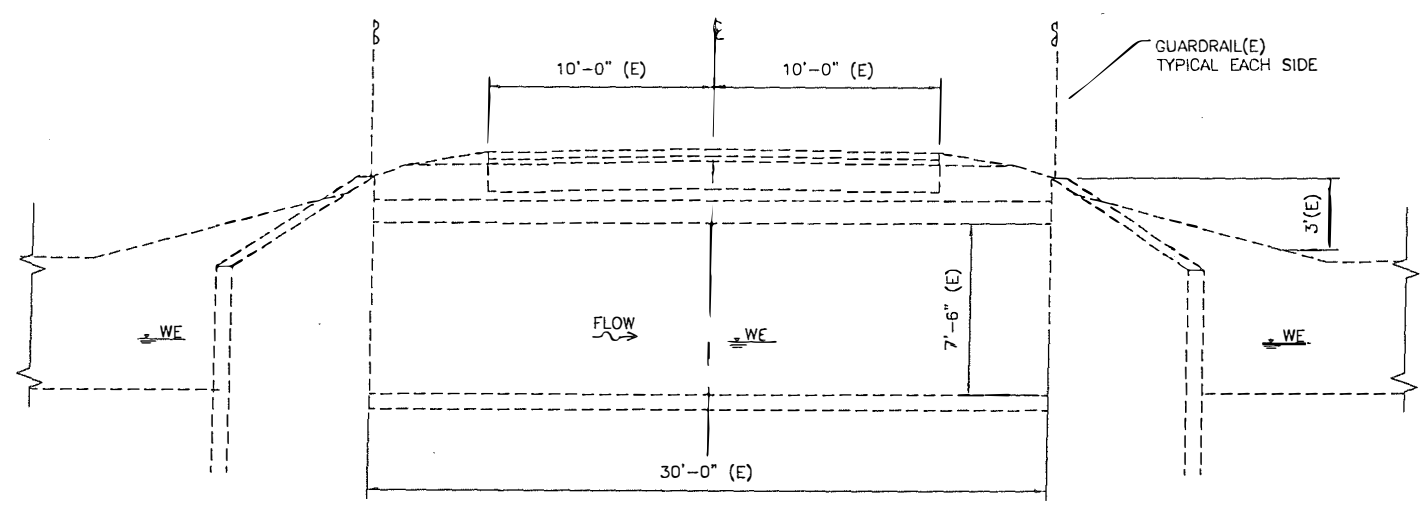
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PIPE CULVERT
STATION 31+30
McNABB BLACKTOP

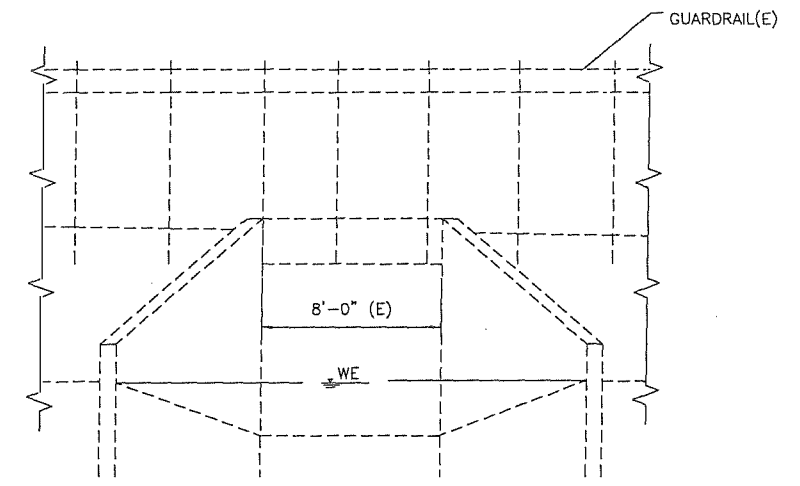
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254	20-00031-00-RS	PUTNAM	14	7
FED. ROAD DIST. NO. -	ILLINOIS	CONTRACT NO. B9807		



PLAN VIEW EXISTING BOX CULVERT
STATION 39+52



PROFILE VIEW EXISTING BOX CULVERT
STATION 39+52



END VIEW EXISTING BOX CULVERT
STATION 39+52

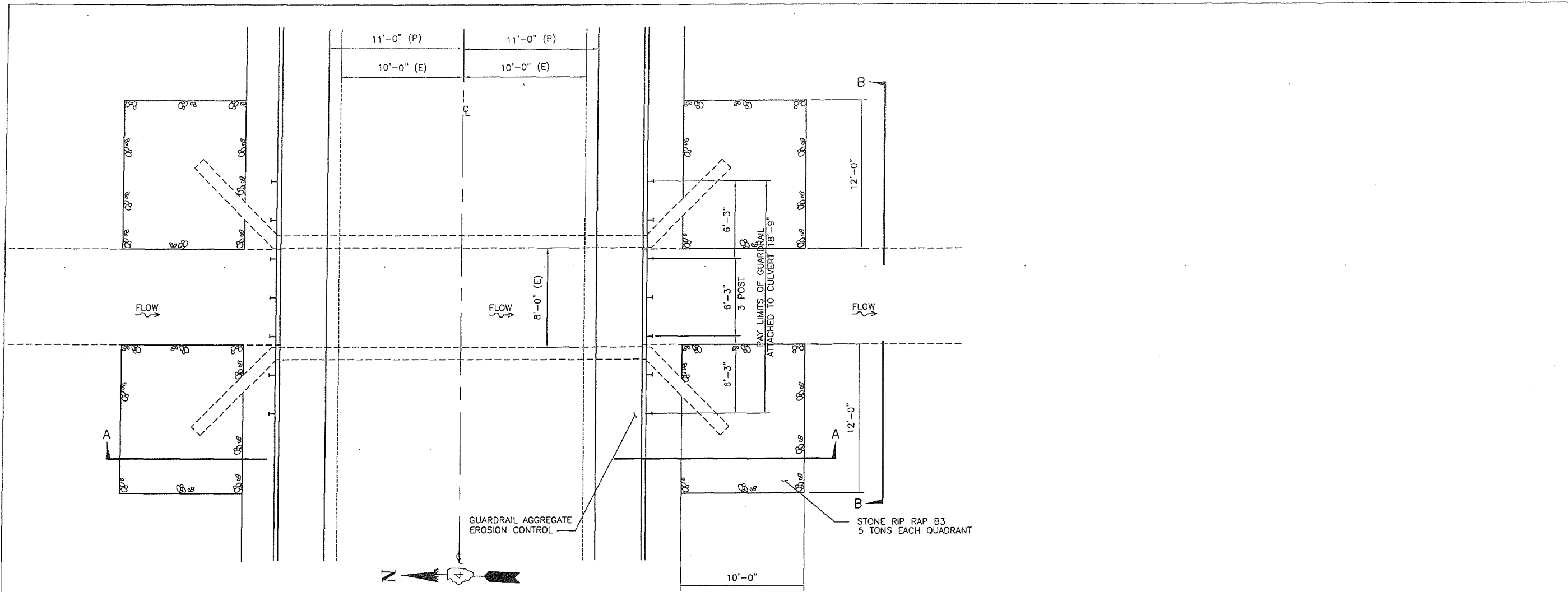
**MARSHALL-PUTNAM
COUNTY HIGHWAY DEPARTMENT**

DESIGNED — PGS	DATE
CHECKED — PGS	REVISED
DRAWN — JLP	REVISED
CHECKED — PGS	REVISED

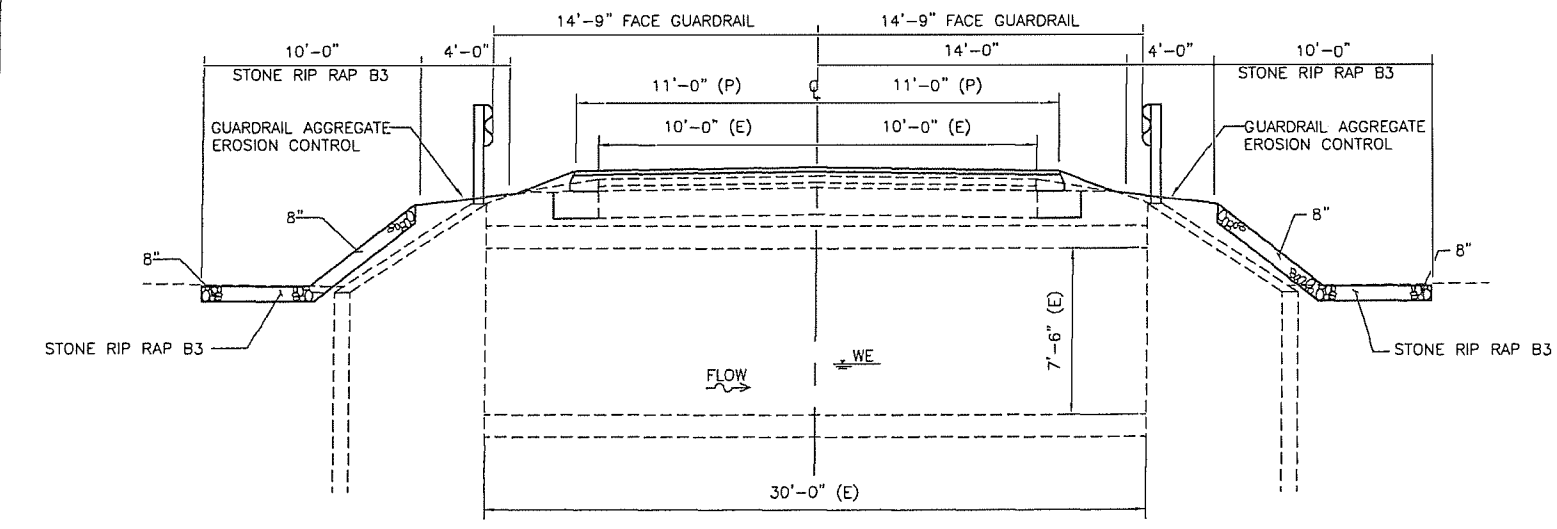
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING BOX CULVERT
STATION 39+52
McNABB BLACKTOP**

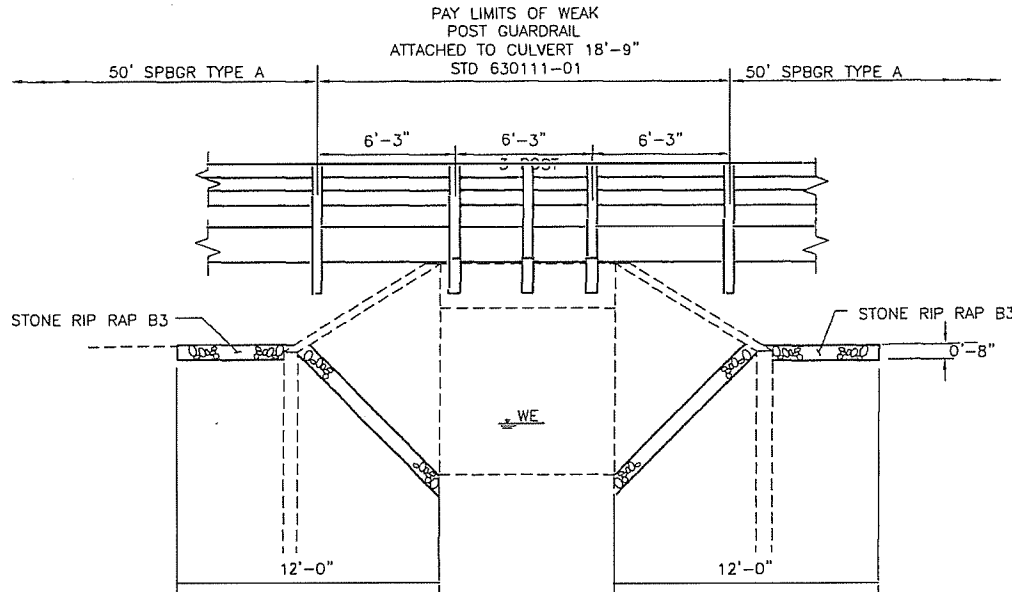
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254	20-00031-00-RS	PUTNAM	14	8
FED. ROAD DIST. NO. —		ILLINOIS	CONTRACT NO. 89807	



PLAN VIEW BOX CULVERT
STATION 39+52



SECTION A-A
STATION 39+52



SECTION B-B
STATION 39+52

MARSHALL-PUTNAM
COUNTY HIGHWAY DEPARTMENT

DESIGNED - PGS	DATE
CHECKED - PGS	
DRAWN - JLP	REVISED
CHECKED - PGS	REVISED

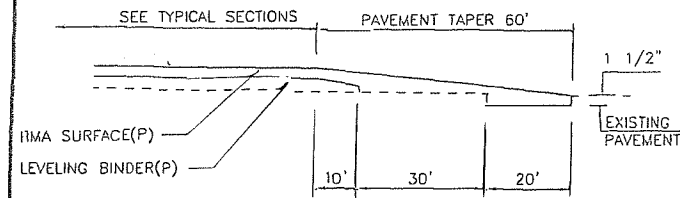
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED IMPROVEMENTS EXISTING
BOX CULVERT STATION 39+52
McNABB BLACKTOP

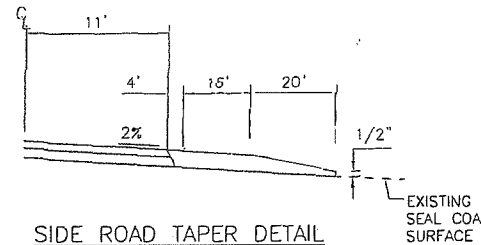
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254	20-00031-00-RS	PUTNAM	14	9
FED. ROAD DIST. NO. -	ILLINOIS	CONTRACT NO. 09807		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE & MAILBOX TURNOUT
McNabb Blacktop Road

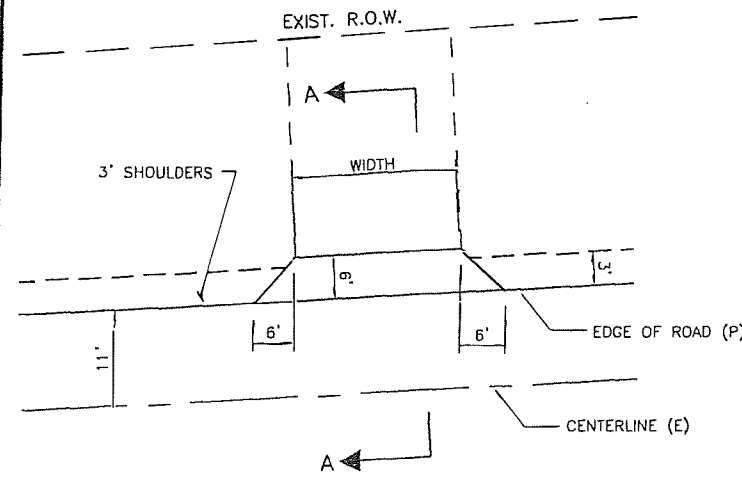


BUTT JOINT AND TAPER DETAIL

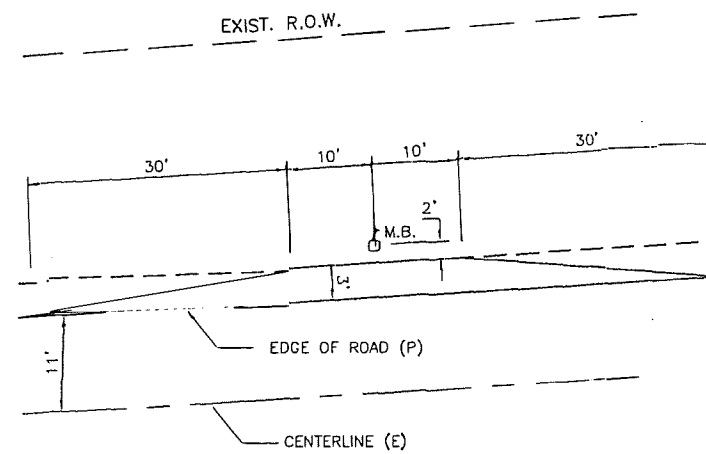


SIDE ROAD TAPER DETAIL

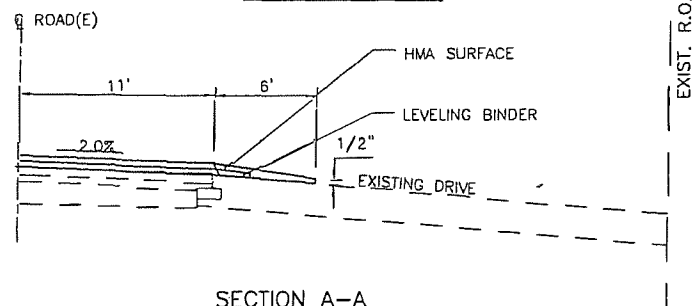
LOCATION	STATION
1475E	52+06 RIGHT
1550E	92+51 RIGHT
STATE ST.	100+09 LEFT
MERIDIAN RD	118+48 LEFT
MERIDIAN RD	121+56 RIGHT



ENTRANCE DETAIL



MAILBOX TURNOUT DETAIL



SECTION A-A
ENTRANCE DETAIL

NOTE:

- EXISTING HMA ENTRANCE ASPHALT TAPERS SHALL BE OVERLAIN WITH TOTAL ASPHALT THICKNESS THAT VARIES FROM 3" TO 1 1/2"±.
- NEW ENTRANCES AND TURNOUTS OR ENTRANCES AND TURNOUTS NOT MEETING THE REQUIRED DIMENSIONS SHALL BE CORED OUT TO RECEIVE A MINIMUM OF 6" AGGREGATE BASE COURSE, TYPE B AND 3" HOT-MIX ASPHALT (HMA).
- HMA QUANTITIES AND TURNOUTS ARE INCLUDED WITH MAIN LINE QUANTITIES, 40% BINDER AND 60% SURFACE COURSE.

LOCATION	R/L	DESC	SURFACE	WIDTH	LEVEL BINDER TON	HMA SURF TON	AGG BASE CSE TON
1+79	R	FE	AGG	40	0.9	2.6	3
11+70	L	FE	AGG	40	0.9	2.6	3.0
18+18	R	PE	AGG	16	0.5	1.2	1.2
18+34	R	MB			1.4	1.4	
20+28	R	PE	AGG	22	0.6	1.6	1.7
21+12	L	PE	AGG	30	0.7	2.0	2.3
21+12	R	MB			1.4	1.4	
24+79	R	FE	AGG	60	1.3	3.7	4.5
33+92	R	FE	AGG	16	0.5	1.2	1.2
34+62	R	PE	AGG	16	0.5	1.2	1.2
34+79	R	MB			1.4	1.4	
38+41	L	FE	AGG	20	0.6	1.5	1.5
40+39	L	FE	AGG	30	0.7	2.0	2.3
52+74	R	MB			1.4	1.4	
53+11	L	PE	BIT	20	0.6	1.5	1.5
53+87	L	PE	AGG	12	0.4	1.0	0.9
54+36	R	FE	AGG	20	0.6	1.5	1.5
55+59	L	FE	AGG	40	0.9	2.6	3.0
65+55	L	FE	AGG	60	1.3	3.7	4.5
69+24	R	FE	AGG	20	0.6	1.5	1.5
74+71	L	FE	AGG	20	0.6	1.5	1.5
76+65	R	MB			1.4	1.4	
77+34	L	PE	AGG	30	0.7	2.0	2.3
79+05	L	FE	AGG	12	0.4	1.0	0.9
79+13	R	FE	AGG	32	0.8	2.1	2.4
85+77	R	FE	AGG	20	0.6	1.5	1.5
98+80	L	PE	AGG	20	0.6	1.5	1.5
106+20	R	FE	AGG	20	0.6	1.5	1.5
TOTAL					22.8	49.2	46.2

CE COMMERCIAL ENTRANCE
FE FIELD ENTRANCE
PE PRIVATE ENTRANCE
MB MAILBOX TURNOUT
PI POINT OF INTERSECT
R RIGHT
L LEFT

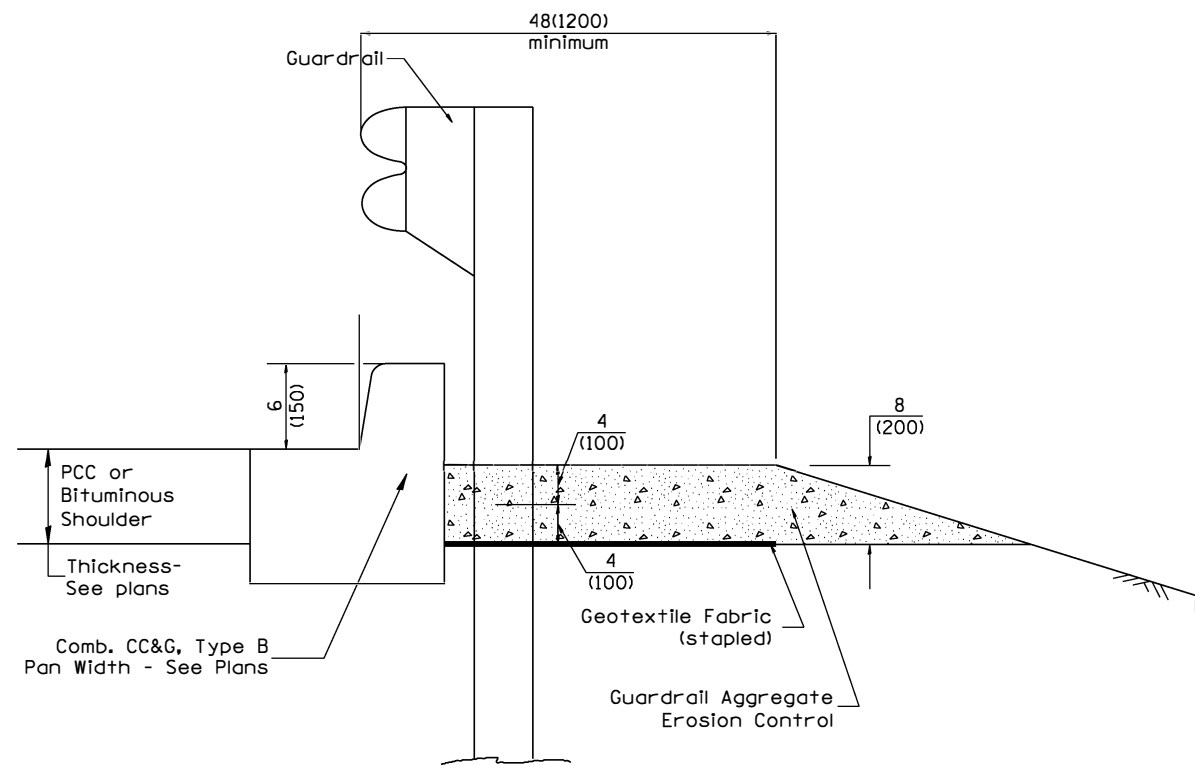
MARSHALL-PUTNAM
COUNTY HIGHWAY DEPARTMENT

DESIGNED -- PGS	DATE
CHECKED -- PGS	REVISED
DRAWN -- JLP	REVISED
CHECKED -- PGS	REVISED

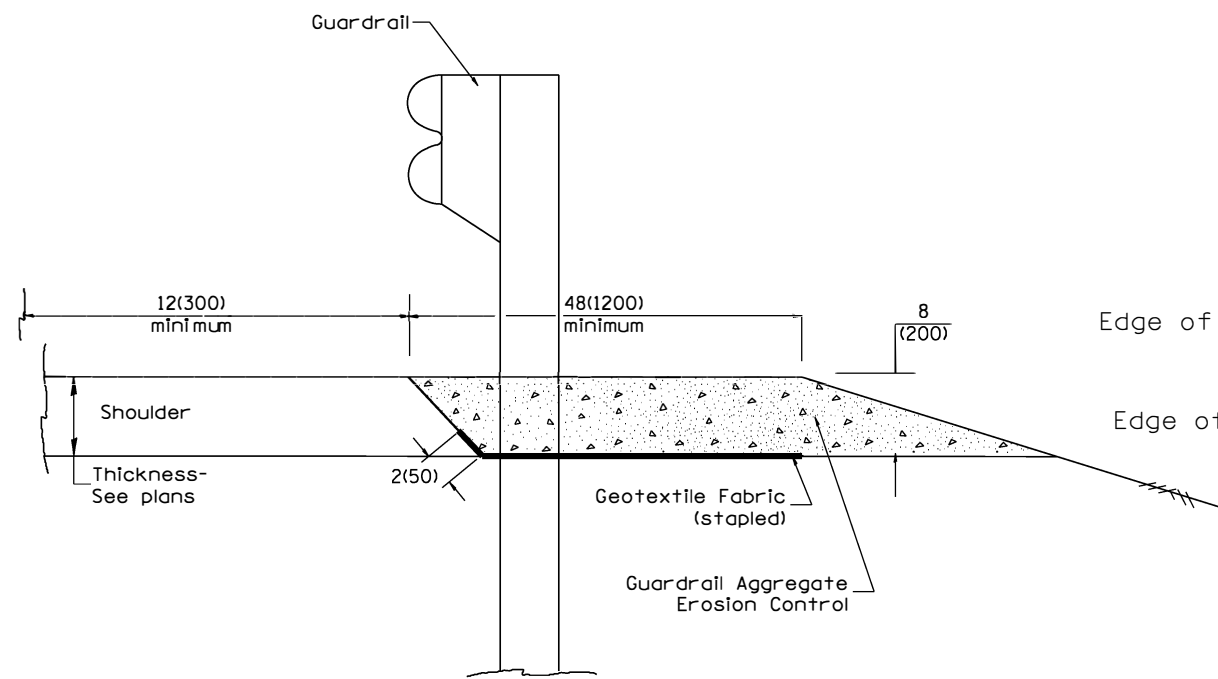
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
254	20-00031-00-RS	PUTNAM	14	10
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 89807		



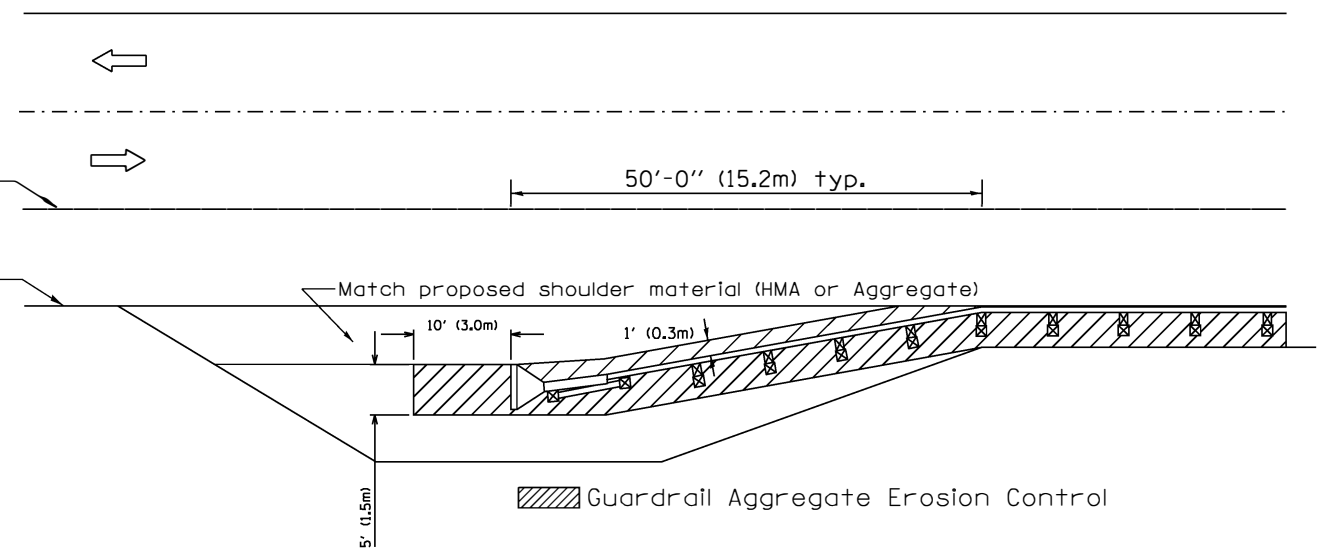
TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



All dimensions are in inches (millimeters) unless otherwise noted.

03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.	5-30-18	CHANGE B CURB TO CC&G	R.D.
08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.	07-16-19	SPELLING CORRECTIONS	R.D.
07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.			
01-26-17	REVISED	R.D.			

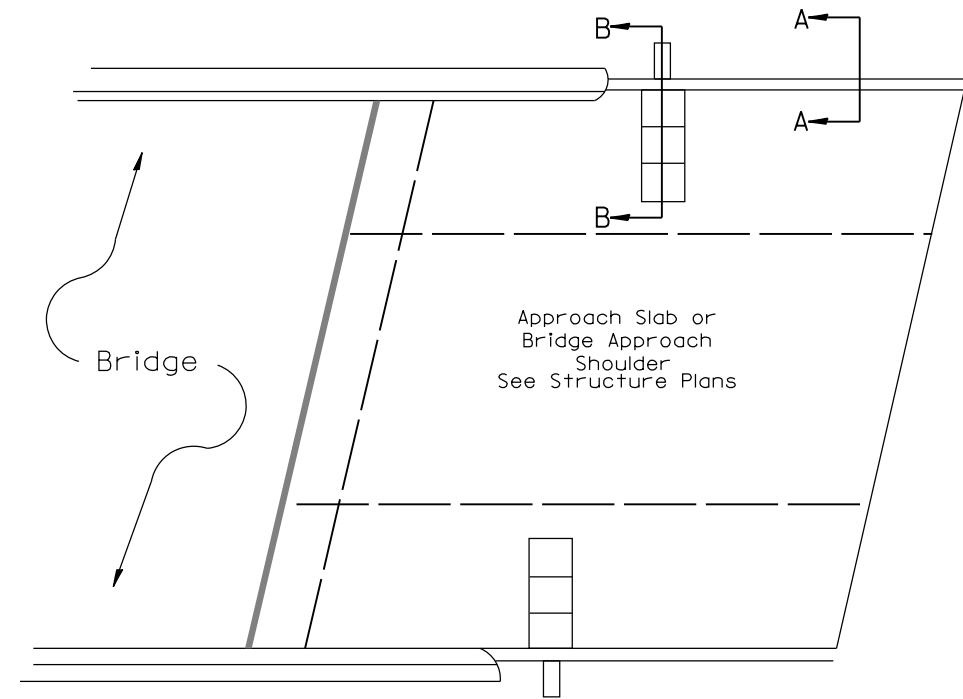
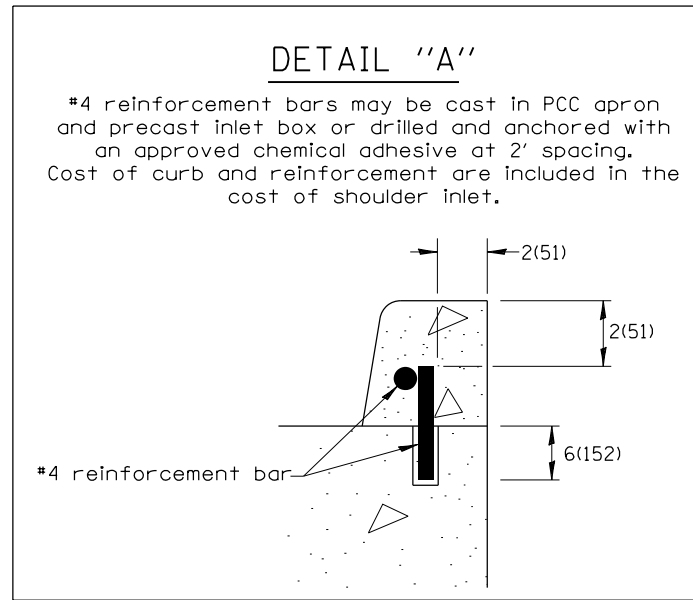
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GUARDRAIL EROSION CONTROL TREATMENTS

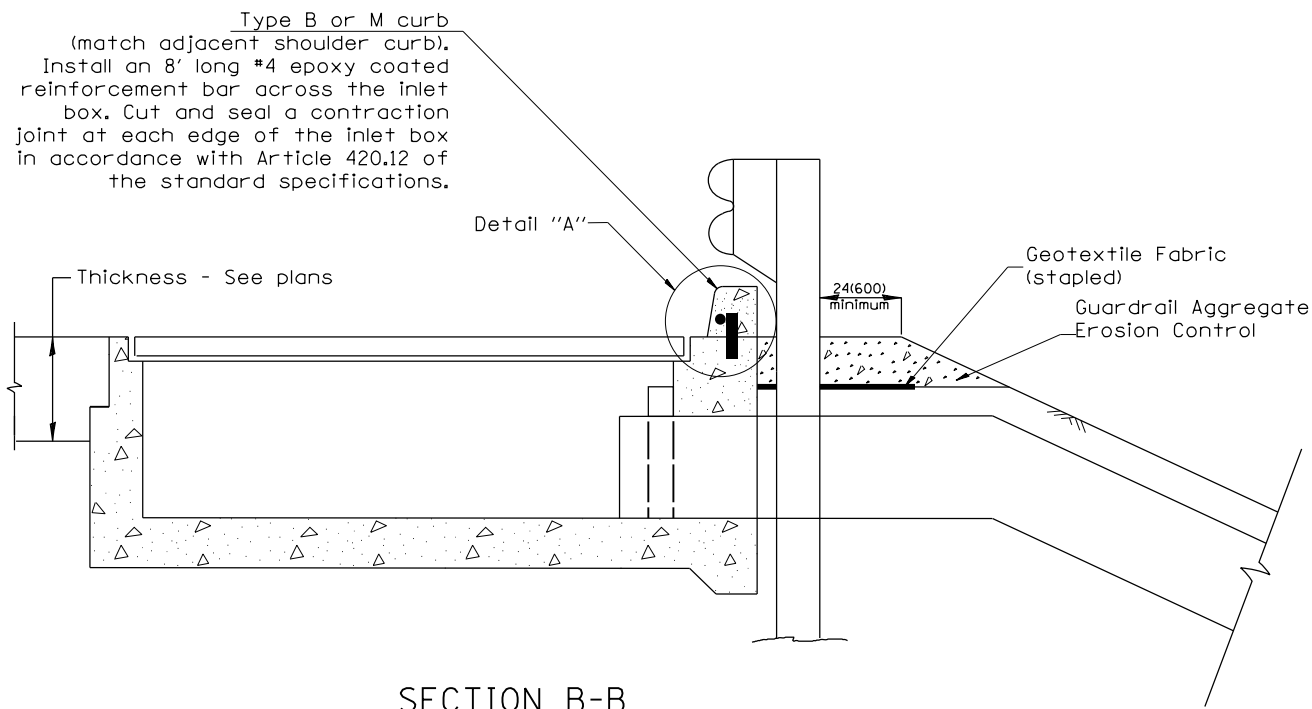
NOT TO SCALE

SHT. 1 OF 2
CADD STD. 630101-D4

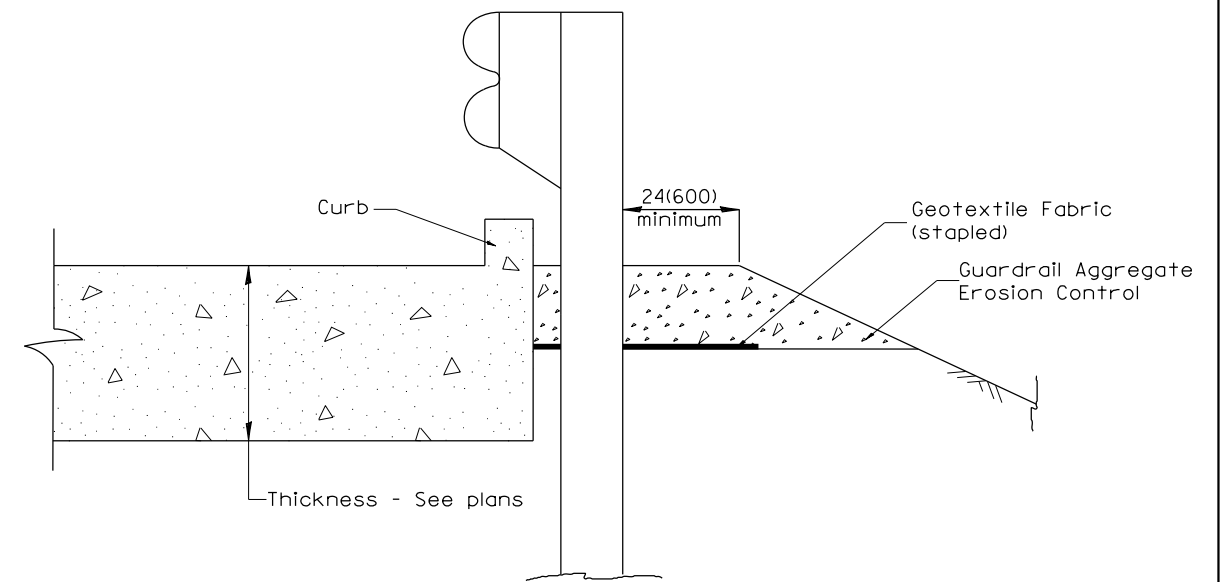
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	11
			CONTRACT NO. 89807	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN VIEW
APPROACH SLAB OR SHOULDER PLACEMENT



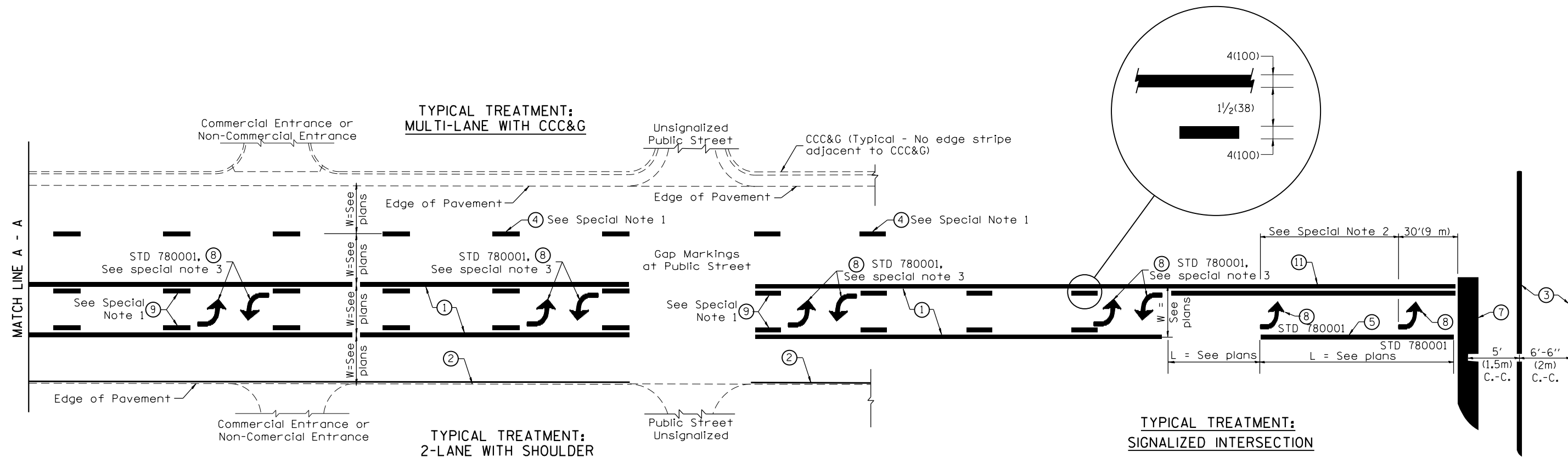
SECTION B-B
TYPICAL SECTION AT INLETS
TYPE E, F & G (HIGHWAY STANDARD 610001)



SECTION A-A
TYPICAL SECTION WITH BRIDGE APPROACH CURB

All dimensions are in inches (millimeters) unless otherwise noted.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				GUARDRAIL EROSION CONTROL TREATMENTS				TOTAL SHEETS 14	SHEET NO. 12
NOT TO SCALE				SHT. 2 OF 2 CADD STD. 630101-D4				CONTRACT NO. 89807	
				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A) (See Table A)
- ⑪ 4(100) Double Solid (Yellow) (See Table A)

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - B. The maximum spacing between arrows is 80' (24 m).
 - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required.
 - B. The maximum spacing between arrow pairs is 200' (61 m).
 - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
 - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:
Through Arrow= 14.8 sq. ft.
Large Left or Right Arrow= 21.9 sq. ft.
2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
Wrong Way Arrow= 29.5 sq. ft.
Railroad Crossing Symbol= 69.8 sq. ft.
(For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.	07-16-19	SPELLING CORRECTIONS	R.D.
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.			

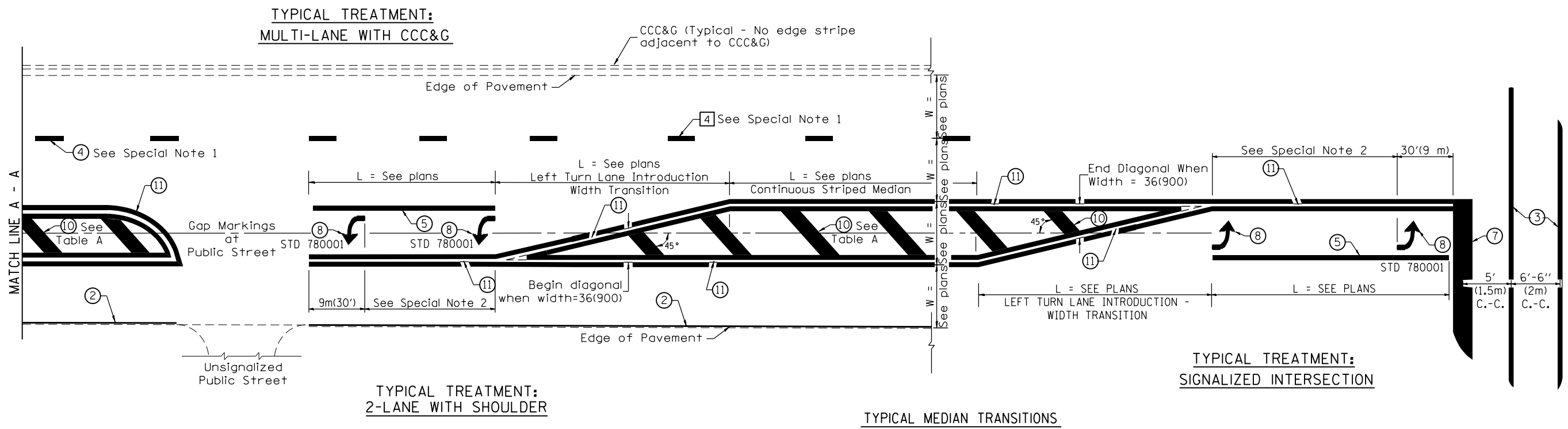
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

TYPICAL PAVEMENT MARKINGS

SHT. 1 OF 2
CADD STD. 780001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			14	13
FED. ROAD DIST. NO.			CONTRACT NO. 89807	
ILLINOIS FED. AID PROJECT				

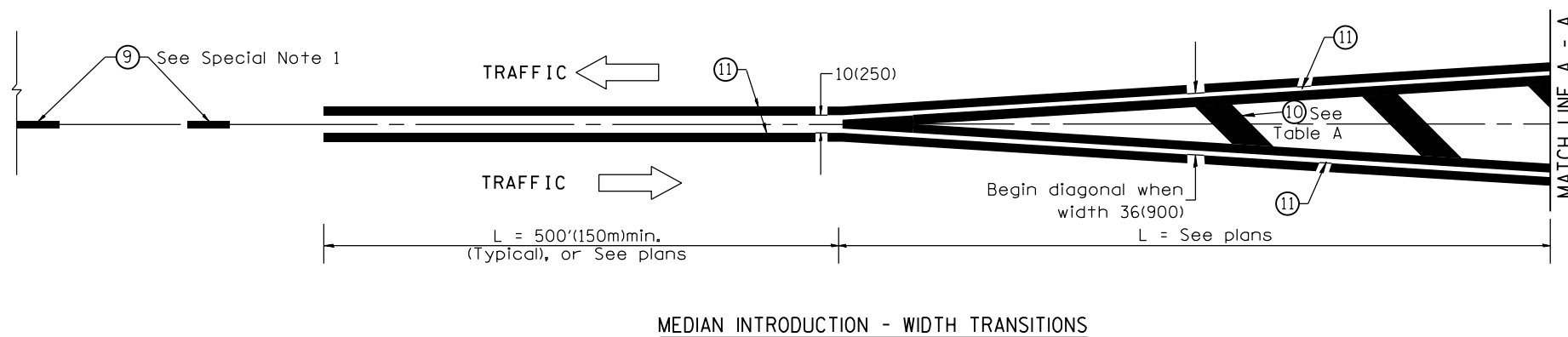


FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A

RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)	
	CONTINUOUS	
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



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