

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH APPROACH
FACE OF WEST CONCRETE BRIDGE RAILING

Location	Station	Offset	Theoretical Grade Elevations
End of S. Approach	122+58.19	-20.03	959.24
A	122+68.25	-20.20	959.27
B	122+78.32	-20.34	959.30
Bk. S. Abut.	122+88.38	-20.45	959.35

SOUTH APPROACH
STAGE CONSTRUCTION LINE

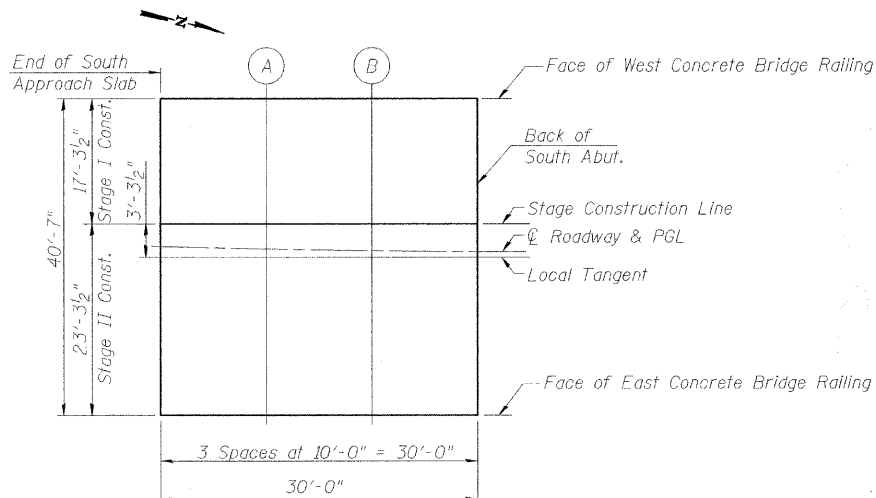
Location	Station	Offset	Theoretical Grade Elevations
End of S. Approach	122+58.52	-2.74	959.60
A	122+68.52	-2.91	959.61
B	122+78.53	-3.05	959.65
Bk. S. Abut.	122+88.54	-3.16	959.70

SOUTH APPROACH
CENTERLINE ROADWAY & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
End of S. Approach	122+58.57	0.00	959.65
A	122+68.57	0.00	959.67
B	122+78.57	0.00	959.71
Bk. S. Abut.	122+88.57	0.00	959.76

SOUTH APPROACH
FACE OF EAST CONCRETE BRIDGE RAILING

Location	Station	Offset	Theoretical Grade Elevations
End of S. Approach	122+58.95	20.55	960.06
A	122+68.88	20.38	960.08
B	122+78.82	20.24	960.11
Bk. S. Abut.	122+88.75	20.13	960.16



PLAN - SOUTH APPROACH

NORTH APPROACH
FACE OF WEST CONCRETE BRIDGE RAILING

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	123+46.76	-20.45	959.94
A	123+56.82	-20.34	960.09
B	123+66.89	-20.20	960.27
End of N. Approach	123+76.95	-20.03	960.45

NORTH APPROACH
STAGE CONSTRUCTION LINE

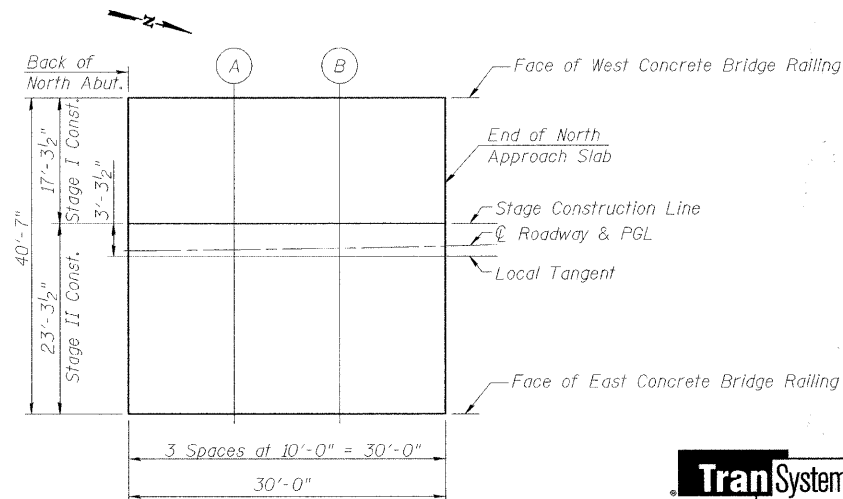
Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	123+46.60	-3.16	960.29
A	123+56.61	-3.05	960.44
B	123+66.62	-2.91	960.60
End of N. Approach	123+76.62	-2.74	960.79

NORTH APPROACH
CENTERLINE ROADWAY & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	123+46.57	0.00	960.35
A	123+56.57	0.00	960.50
B	123+66.57	0.00	960.66
End of N. Approach	123+76.57	0.00	960.84

NORTH APPROACH
FACE OF EAST CONCRETE BRIDGE RAILING

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	123+46.39	20.13	960.75
A	123+56.32	20.24	960.89
B	123+66.26	20.38	961.07
End of N. Approach	123+76.19	20.55	961.24



PLAN - NORTH APPROACH

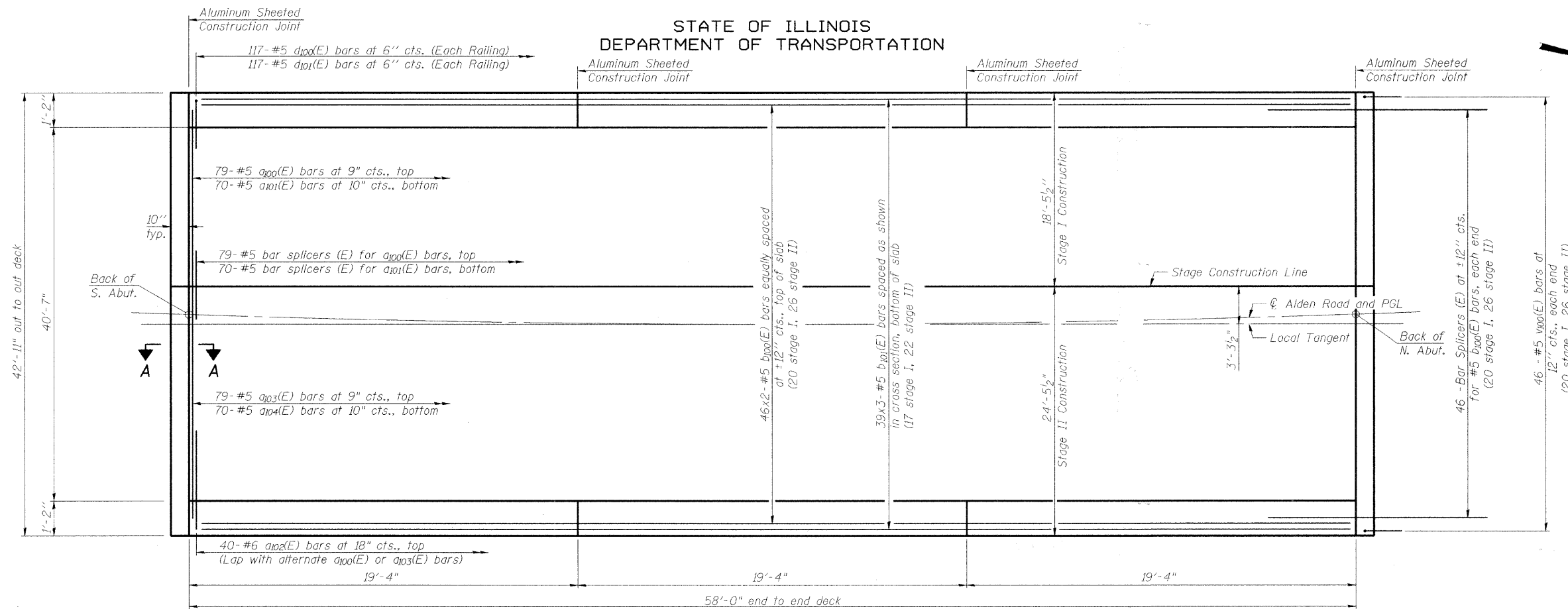
TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 056-3174

DESIGNED	MDS
CHECKED	LAN
DRAWN	MDS
CHECKED	SLC

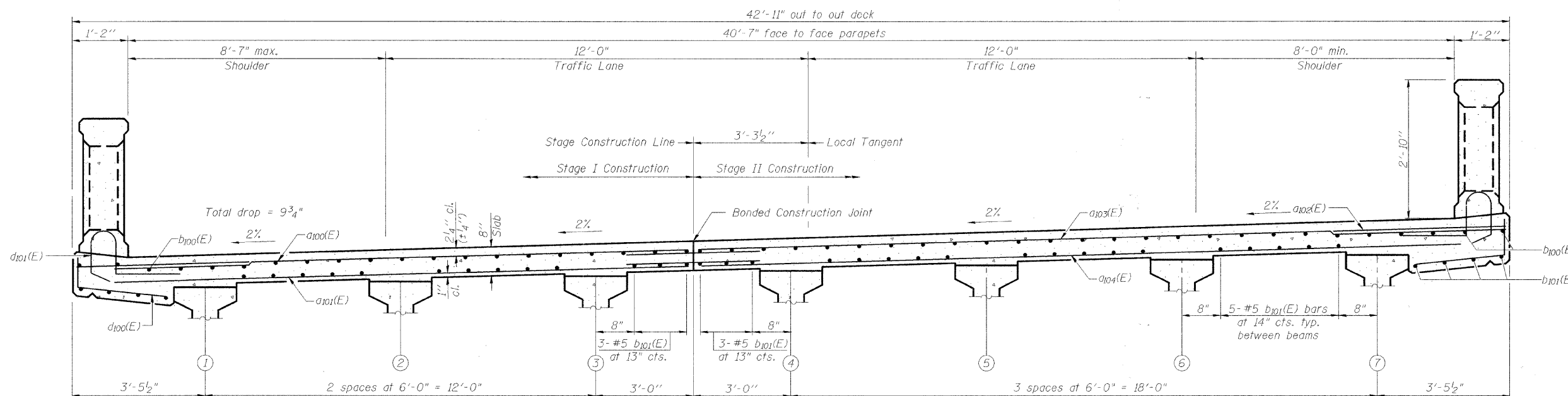


SHEET NO. 9	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0026	02-00269-00-BR	McHENRY	153	101
22 SHEETS	CONTRACT NO. 63212				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN



CROSS SECTION
(Looking North)

DECK PLAN AND CROSS SECTION
STRUCTURE NO. 056-3174

DESIGNED	LAN
CHECKED	MDS
DRAWN	LAN
CHECKED	MDS

Notes:
See Sheet 12 of 22 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet 11 of 22 for parapet reinforcement.
For details of bar splicers, see sheet 20 of 22.
For Section A-A, see sheet 12 of 22.

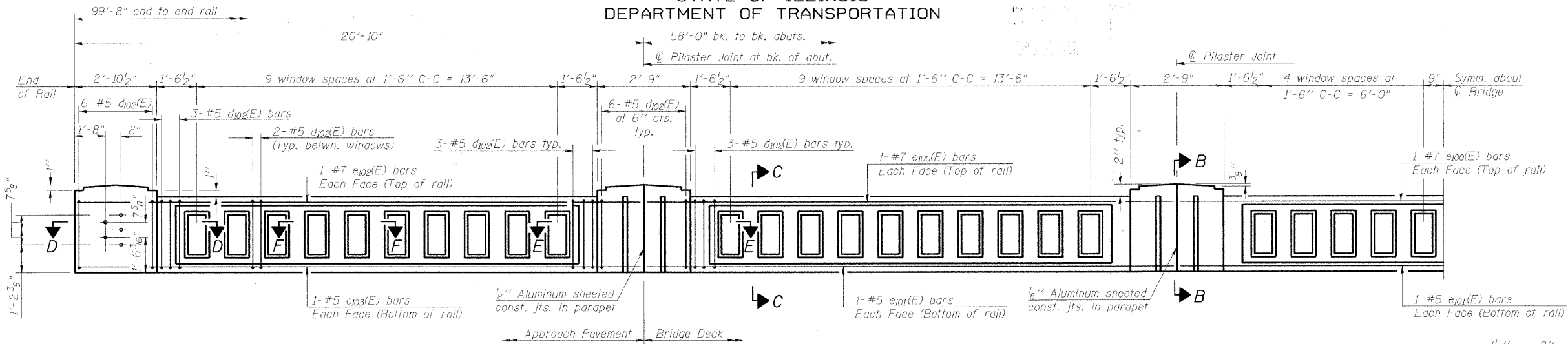
MINIMUM BAR LAP
(Slab)
#5 bar = 2'-2"



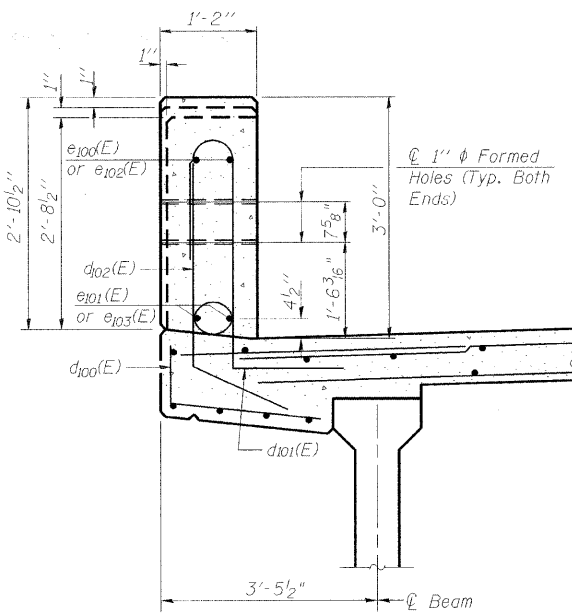
1051 Perimeter Drive, Suite 1025
Schaumburg, IL 60173-5058
Phone: (847) 605-9600
Fax: (847) 605-9610

SHEET NO. 10 22 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63212					

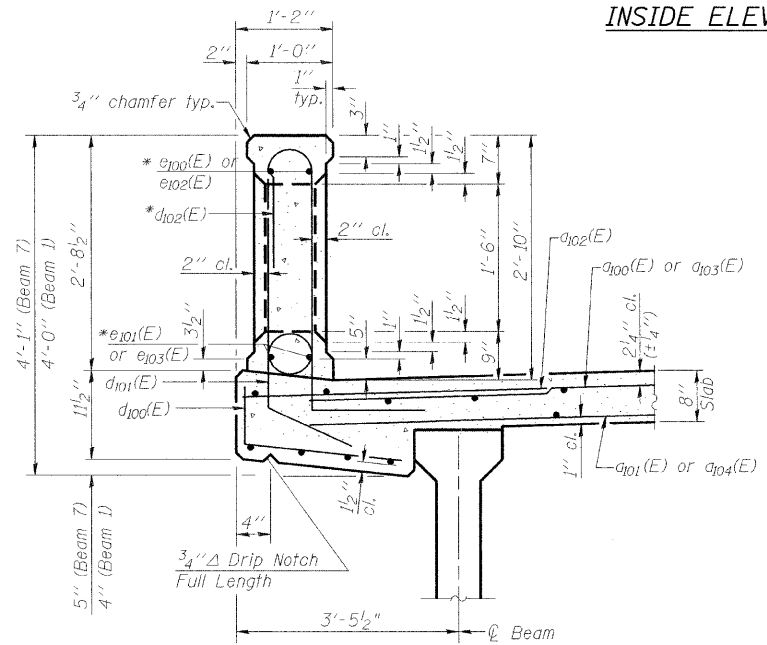
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



INSIDE ELEVATION OF RAIL

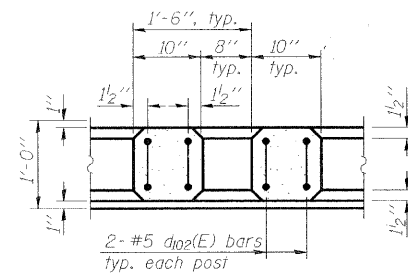


SECTION B-B

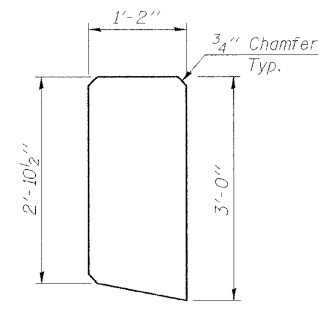


SECTION C-C

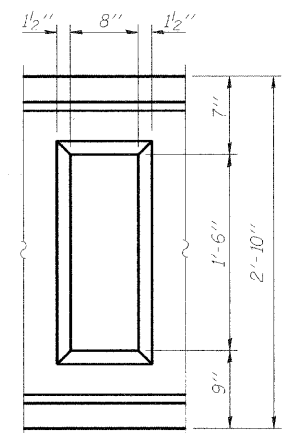
*Bars e100(E) thru e103(E) and d102(E) are included in the cost of Concrete Bridge Railing.



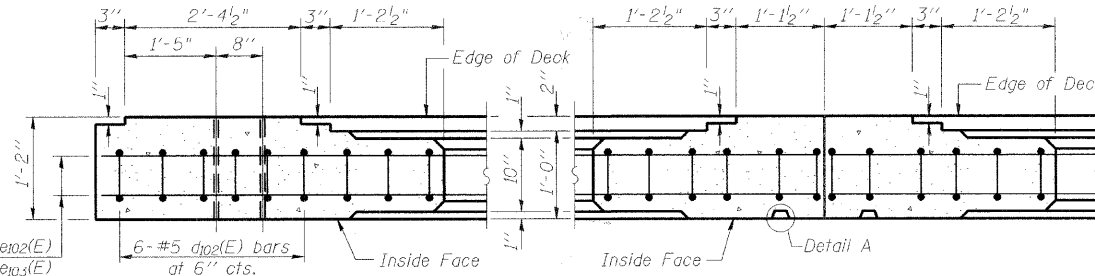
SECTION F-F



PILASTER JOINT
ALUMINUM JOINT DETAIL

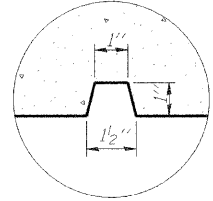


WINDOW DETAIL

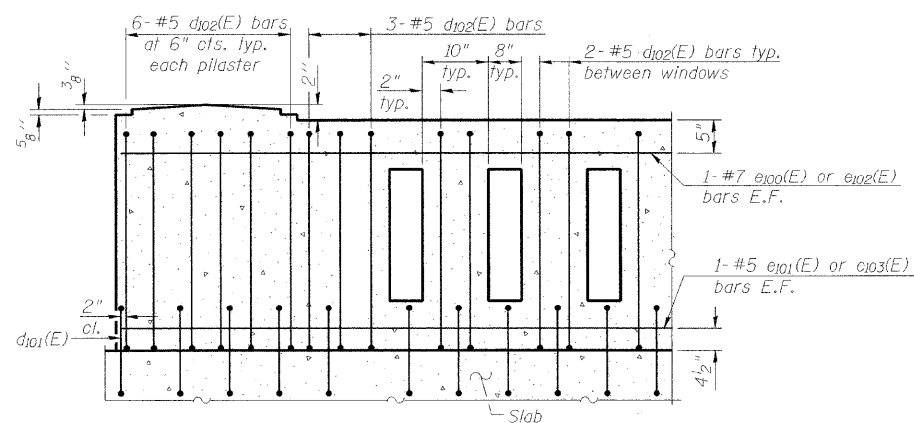


SECTION D-D

SECTION E-E



DETAIL A



TYPICAL REINFORCEMENT PLACEMENT

(Inside Face)

Notes:
All concrete for railing wall shall be Class BS according to Article 1020.04 of the Standard Specifications. Surface of railing shall receive a rubbed finish according to Article 503.15(b) of the Standard Specifications.
All parts of the railing including concrete and reinforcing will be paid for at the contract unit price per foot for Concrete Bridge Railing.
Holes and recesses must be formed or cored. Drilling is not permitted.
Aluminum sheets shall be according to ASTM B209 alloy 3003-H14.
See Sheet 12 of 22 for Bill of Material.

DESIGNED	LAN
CHECKED	MDS
DRAWN	LAN
CHECKED	MDS

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Schaumburg, IL 60173-0058
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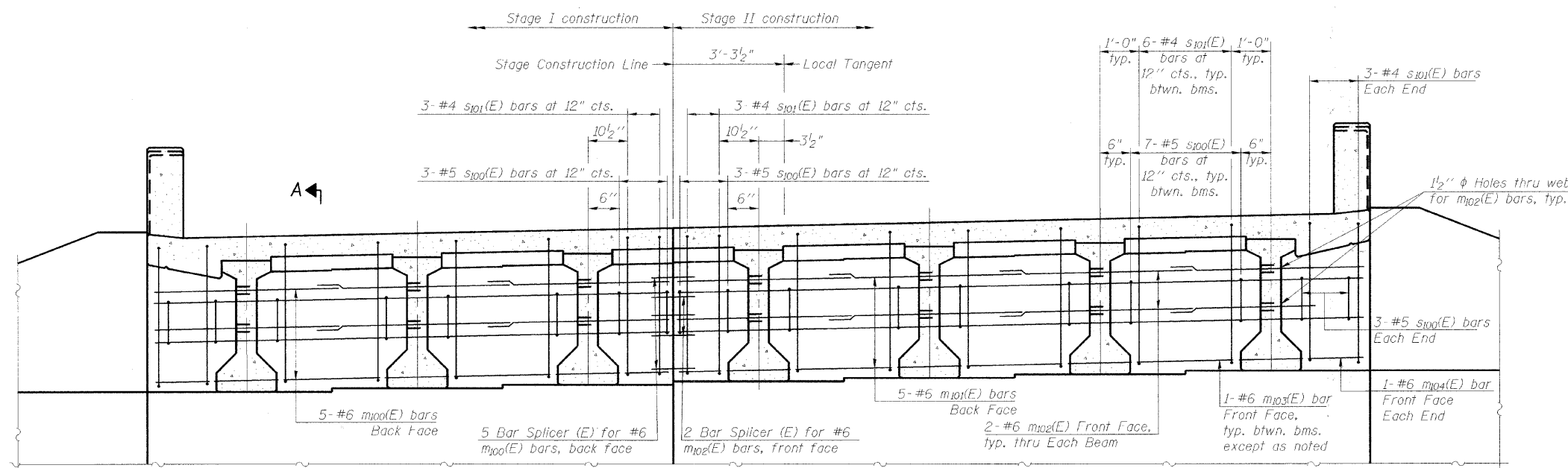
CONCRETE BRIDGE RAILING
STRUCTURE NO. 056-3174

SHEET NO. 11	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0026	02-00269-00-BR	McHENRY	153	103
22 SHEETS	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63212					

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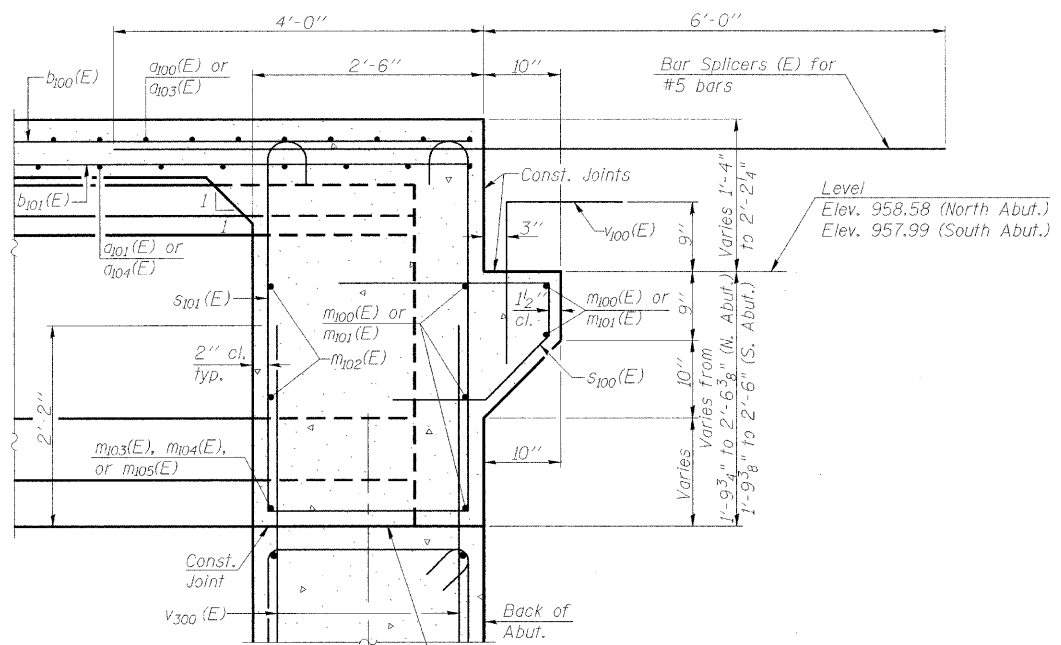
**SUPERSTRUCTURE
BILL OF MATERIAL**



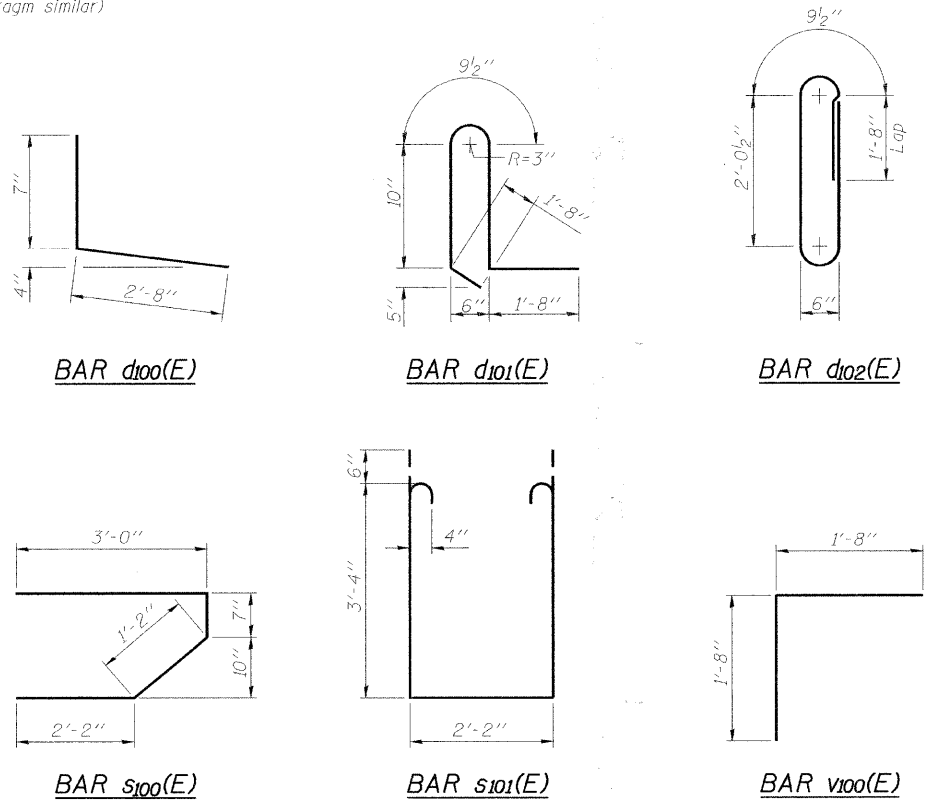
DIAPHRAGM ELEVATION AT ABUTMENT
(North diaphragm shown, looking North. South diaphragm similar)

Bar	No.	Size	Length	Shape
a100 (E)	79	#5	18'-2"	—
a101 (E)	70	#5	17'-8"	—
a102 (E)	80	#6	6'-6"	—
a103 (E)	79	#5	24'-2"	—
a104 (E)	70	#5	23'-8"	—
b100 (E)	92	#5	30'-0"	—
b101 (E)	117	#5	20'-9"	—
d100 (E)	234	#5	3'-3"	⌒
d101 (E)	234	#5	5'-10"	⌒
d102 (E)	312	#5	7'-4"	⌒
e100 (E)	12	#7	19'-0"	—
e101 (E)	12	#5	19'-0"	—
e102 (E)	8	#7	20'-6"	—
e103 (E)	8	#5	20'-6"	—
m100 (E)	10	#6	18'-2"	—
m101 (E)	10	#6	24'-2"	—
m102 (E)	28	#6	8'-9"	—
m103 (E)	10	#6	4'-2"	—
m104 (E)	4	#6	2'-4"	—
s100 (E)	94	#5	6'-11"	⌒
s101 (E)	84	#4	9'-10"	⌒
v100 (E)	92	#5	3'-4"	⌒
Reinforcement Bars, Epoxy Coated			Pound	17,550
Concrete Superstructure			Cu. Yds.	93.8
Concrete Bridge Railing			Foot	116
Bar Splicers			Each	255
Bridge Deck Grooving			Sq. Yd.	249
Protective Coat			Sq. Yd.	316
Rubbed Finish			Sq. Ft.	1423

Concrete in diaphragm is included with Concrete Superstructure.
***Bars e100(E), e101(E), e102(E), e103(E), and d102(E) are included in the cost of Concrete Bridge Railing. These bars are excluded from the quantity Reinforcement Bars, Epoxy Coated.



SECTION A-A
Dimensions at right angles to abutment, except as shown.



MIN. BAR LAP
#6 bar = 2'-9"



**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 056-3174**

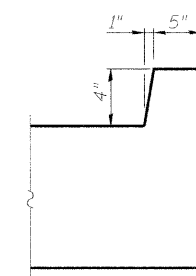
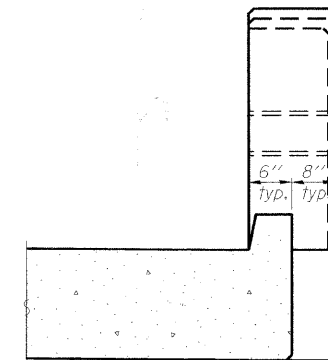
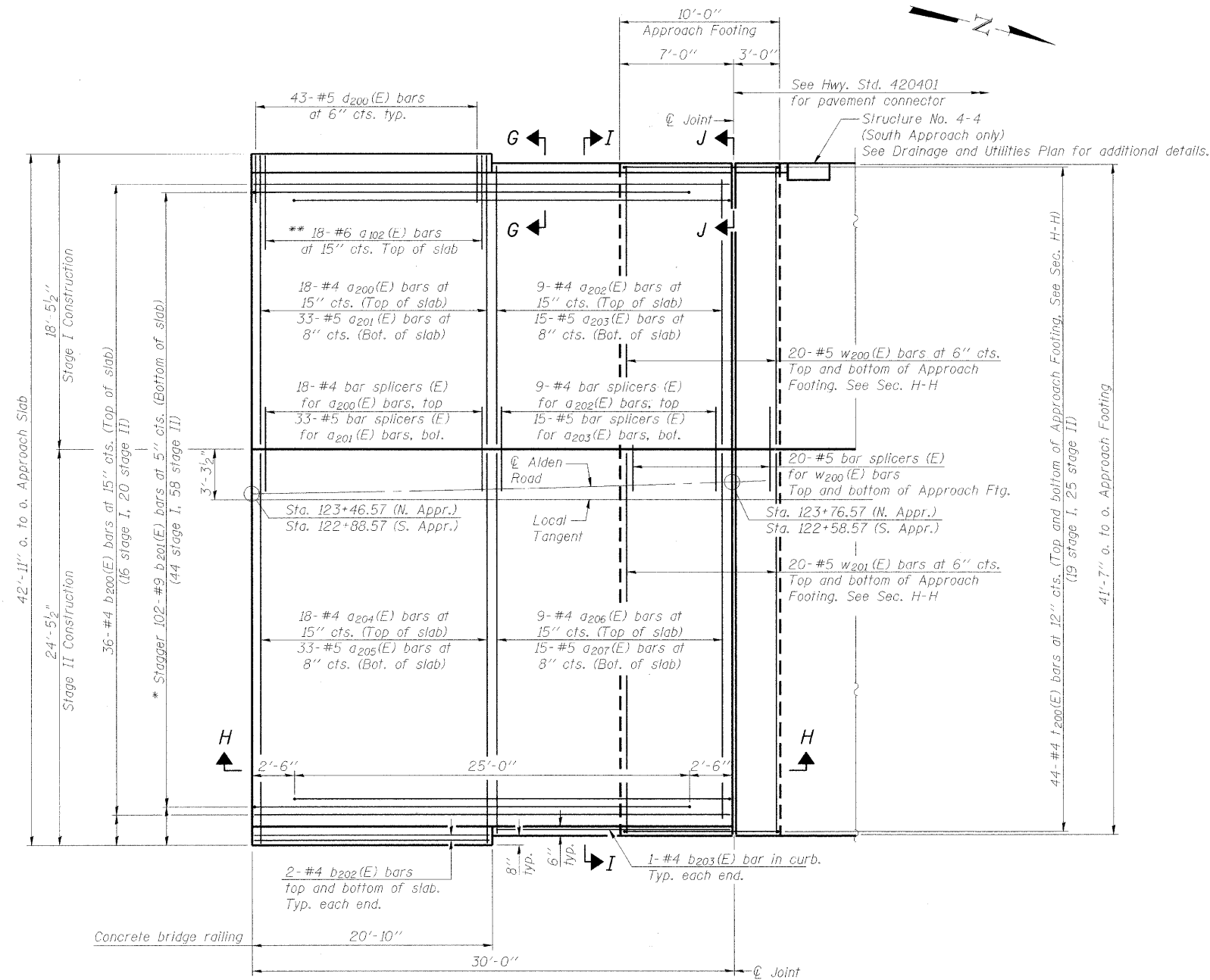
DESIGNED	LAN
CHECKED	MDS
DRAWN	LAN
CHECKED	MDS

SHEET NO. 12	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0026	02-00269-00-BR	McHENRY	153	104
22 SHEETS	CONTRACT NO. 63212				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:
See sheet 14 of 22 for Sections H-H & I-I.
a₂₀₀(E), a₂₀₁(E), a₂₀₂(E), a₂₀₃(E),
a₂₀₄(E), a₂₀₅(E), a₂₀₆(E), a₂₀₇(E), w₂₀₀(E), and w₂₀₁(E)
bar spacings measured perpendicular to ϕ Local Tangent.
See sheet 11 of 22 for Concrete Railing Reinforcement.



PLAN
(North approach shown. South approach similar)

* Tilt #9 b₂₀₁(E) bars as required to maintain clearance.
** Lap with a₂₀₀(E) or a₂₀₄(E) bars, typ. each parapet.

DESIGNED	LAN
CHECKED	MDS
DRAWN	LAN
CHECKED	MDS

(Sheet 1 of 2)
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 056-3174

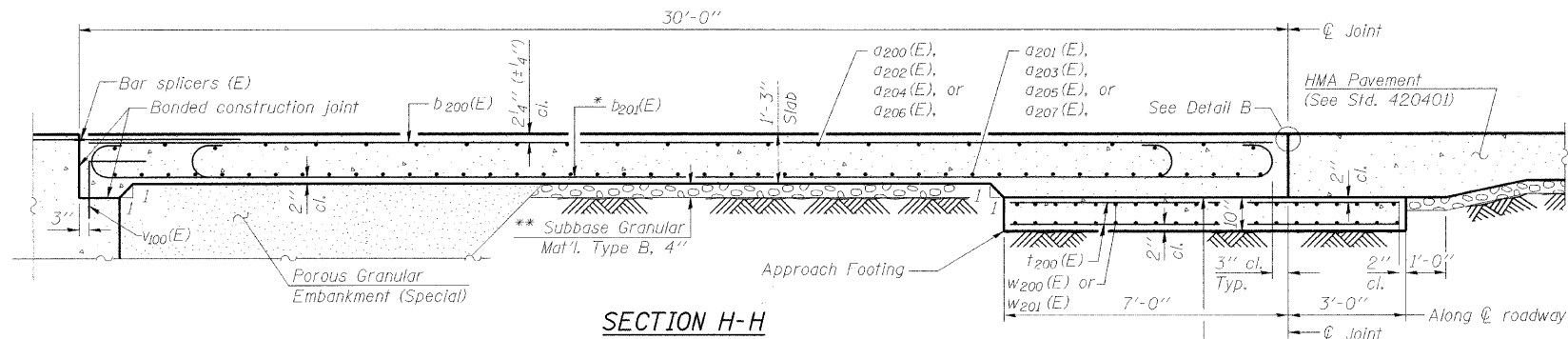
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Phone: (847) 605-9600
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SHEET NO. 13	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0026	02-00269-00-BR	McHENRY	153	105
22 SHEETS	CONTRACT NO. 63212				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

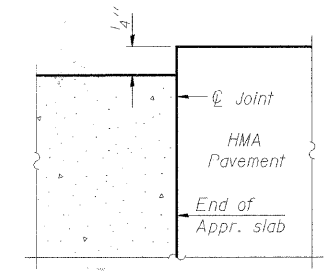
Notes:
Approach slab concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For $v_{100}(E)$ bar details, see sheet 12 of 22.
The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
For bar splicer details, see sheet 20 of 22.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 1 of 22.



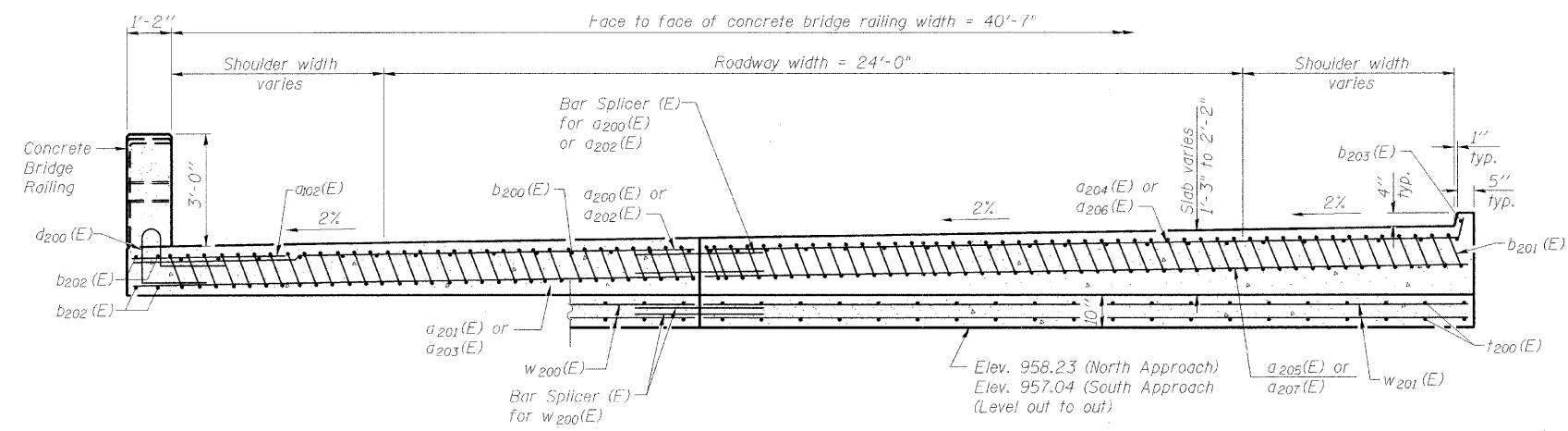
* Tilt #9 $b_{201}(E)$ bars as required to maintain clearance.
** Cost included with Concrete Superstructure.
** 10 mil. Polyethylene bond breaker on steel trowel finish

TWO APPROACHES
BILL OF MATERIAL

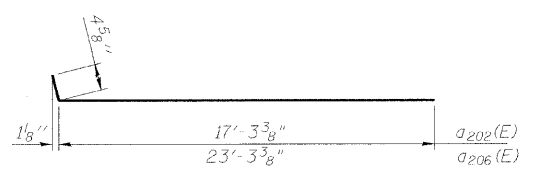
Bar	No.	Size	Length	Shape	
$a_{102}(E)$	36	#6	6'-6"	—	
$a_{200}(E)$	36	#4	18'-1"	—	
$a_{201}(E)$	66	#5	18'-1"	—	
$a_{202}(E)$	18	#4	17'-8"	—	
$a_{203}(E)$	30	#5	17'-5"	—	
$a_{204}(E)$	36	#4	24'-1"	—	
$a_{205}(E)$	66	#5	24'-1"	—	
$a_{206}(E)$	18	#4	23'-8"	—	
$a_{207}(E)$	30	#5	23'-5"	—	
$b_{200}(E)$	72	#4	29'-8"	—	
$b_{201}(E)$	204	#9	29'-9"	—	
$b_{202}(E)$	16	#4	20'-6"	—	
$b_{203}(E)$	4	#4	8'-10"	—	
$d_{200}(E)$	172	#5	6'-6"	L	
$t_{200}(E)$	176	#5	9'-8"	—	
$w_{200}(E)$	80	#5	17'-5"	—	
$w_{201}(E)$	80	#5	23'-5"	—	
Reinforcement Bars, Epoxy Coated				Pound	34,700
Concrete Structures				Cu. Yds.	25.7
Concrete Superstructure				Cu. Yds.	131.1
Concrete Bridge Railing				Foot	84
Bar Splicers				Each	230
Bridge Deck Grooving				Sq. Yd.	258
Protective Coat				Sq. Yd.	313



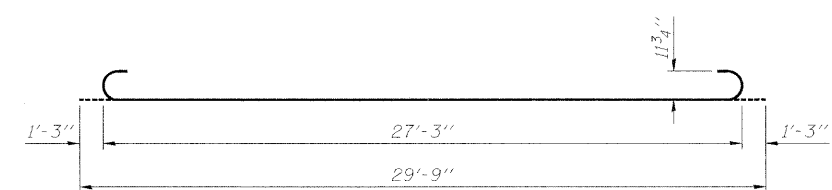
FLEXIBLE PAVEMENT
DETAIL B



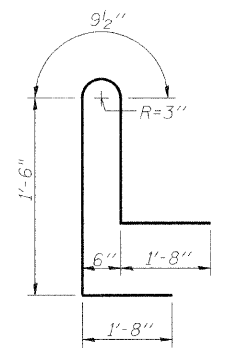
NEAR ABUTMENT SECTION I-I AT APPROACH FOOTING
(North approach shown. South approach similar.)
(See Plan for dimensions not shown)



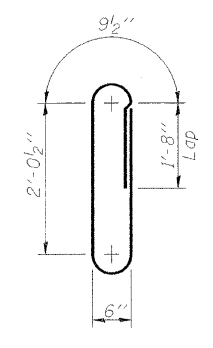
BARS $a_{202}(E)$ and $a_{206}(E)$



BAR $b_{201}(E)$



BAR $d_{200}(E)$



BAR $a_{202}(E)$

DESIGNED	LAN
CHECKED	MDS
DRAWN	LAN
CHECKED	MDS

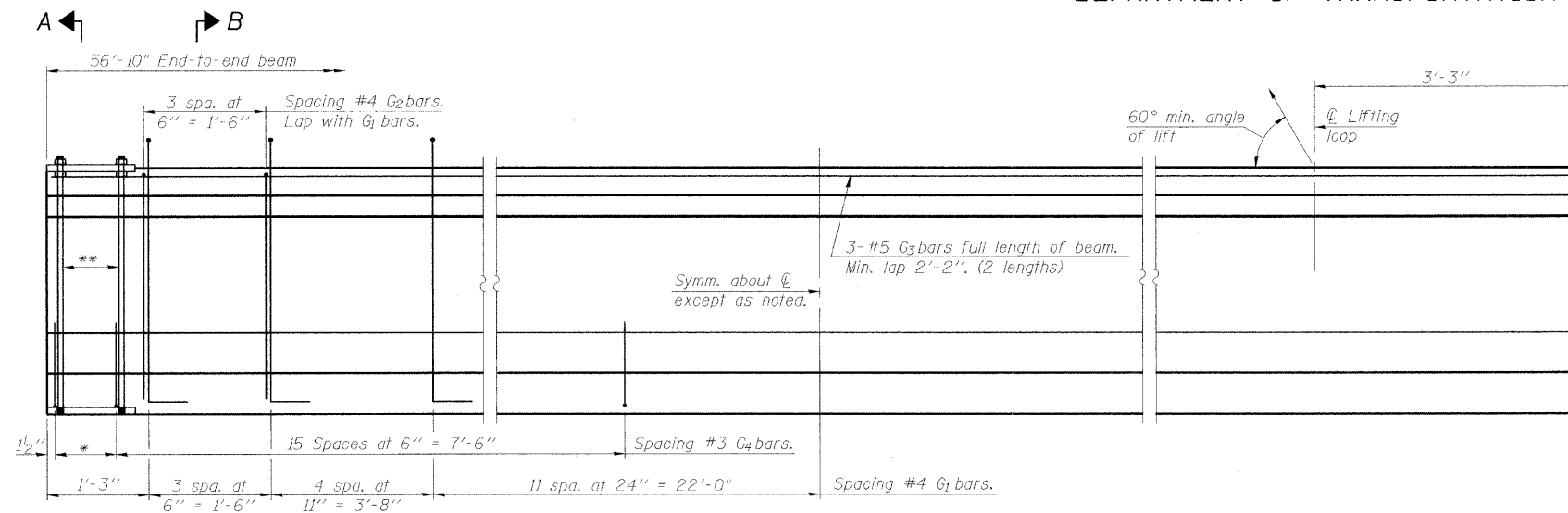
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Schaumburg, IL 60173-5058
Phone: (847) 605-8900
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SHEET NO. 14	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0026	02-00269-00-BR	McHENRY	153	106
22 SHEETS	CONTRACT NO. 63212		ILLINOIS FED. AID PROJECT		

(Sheet 2 of 2)
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 056-3174

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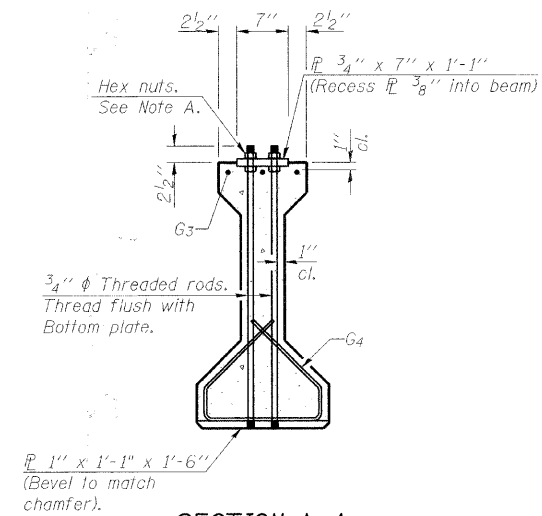
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



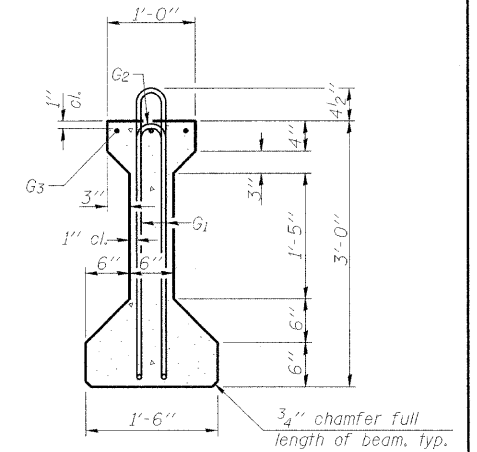
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

* 3 spaces at 3" = 9"
** 4-3/4" ϕ threaded dowel rods at 3" cts., Each Face

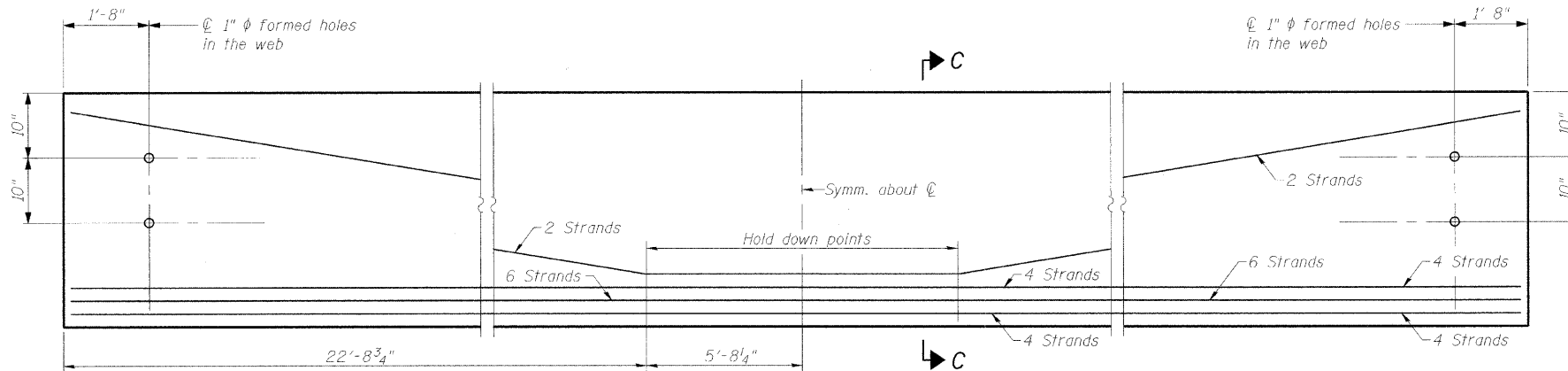
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



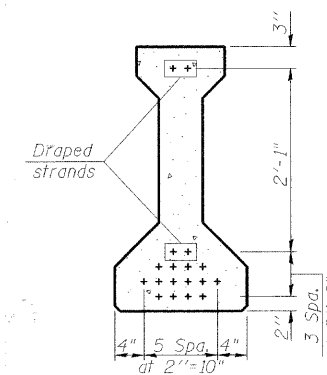
SECTION A-A



SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C

*****BAR LIST
ONE BEAM ONLY**

Bar	No.	Size	Length	Shape
G ₁	37	#4	7'-5"	∩L
G ₂	8	#4	5'-8"	∩
G ₃	6	#5	29'-4"	—
G ₄	38	#3	4'-1"	∩

***For information only

Notes:
See sheet 16 of 22 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5000 psi.

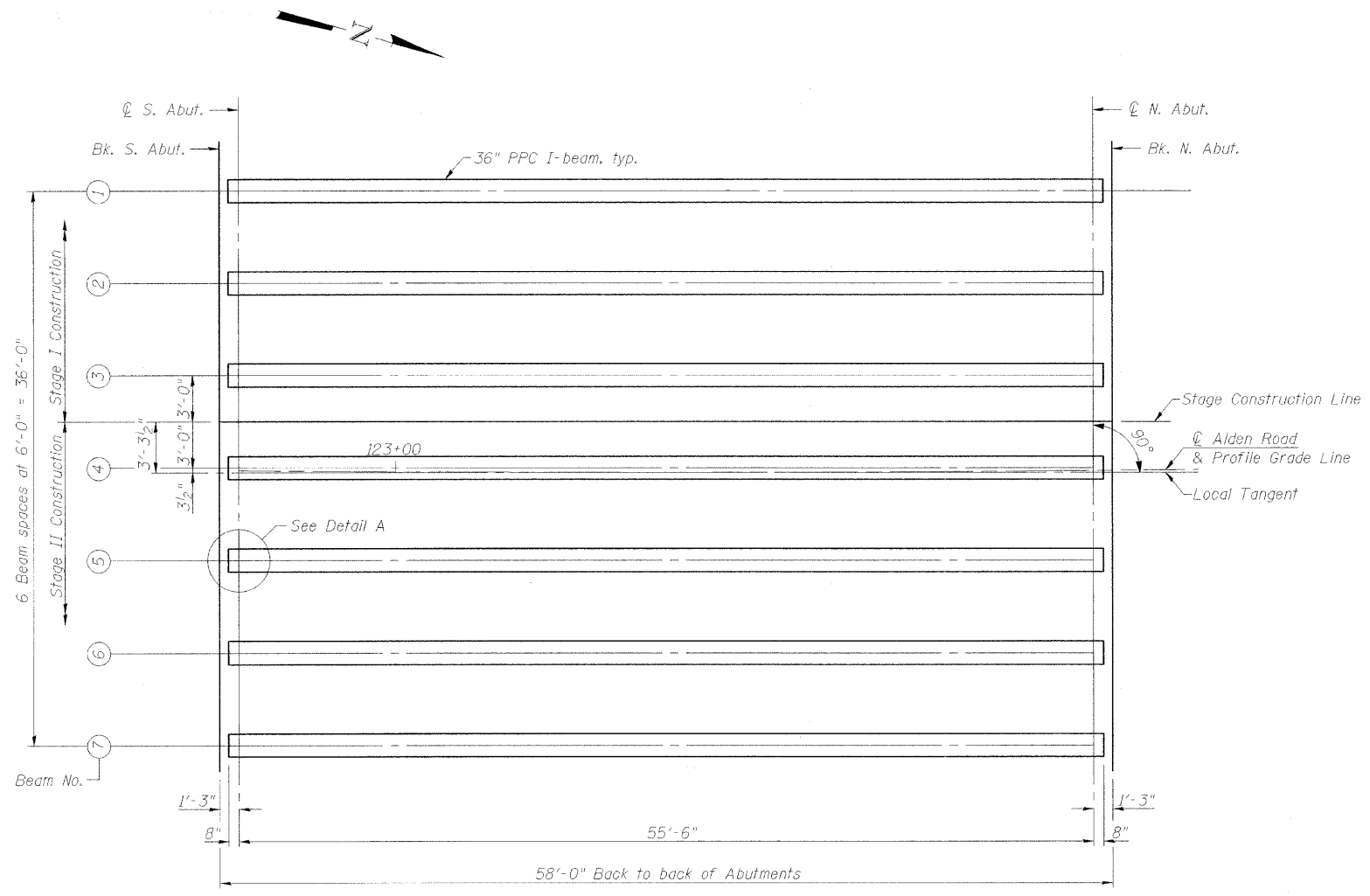
DESIGNED	MDS
CHECKED	LAN
DRAWN	MDS
CHECKED	SLC

TranSystems

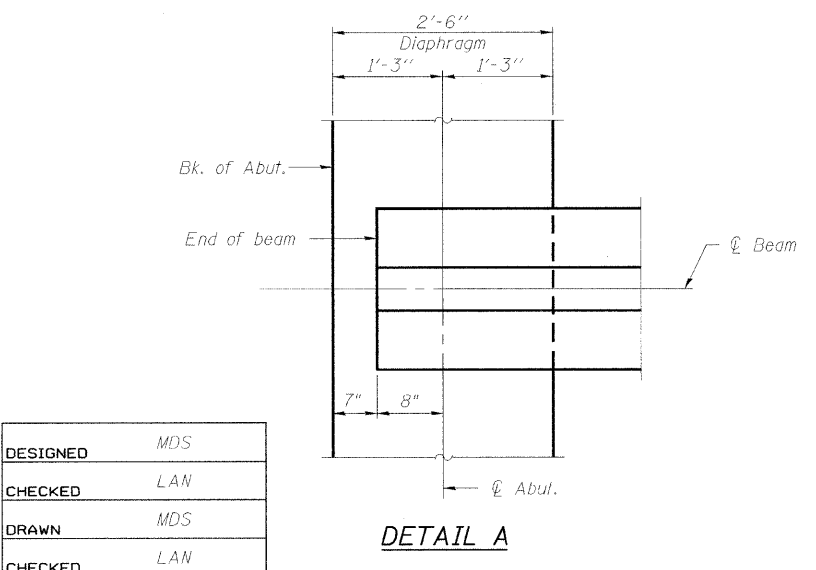
1051 Perimeter Drive, Suite 1025
Schaumburg, IL 60173-5058
Phone: (847) 805-9600
Fax: (847) 805-9610

SHEET NO. 15	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0026	02-00269-00-BR	McHENRY	153	107
22 SHEETS	CONTRACT NO. 63212				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



FRAMING PLAN

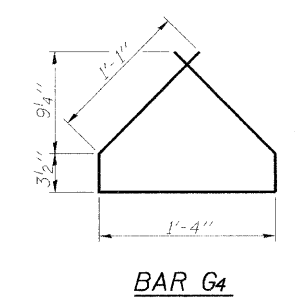


DETAIL A

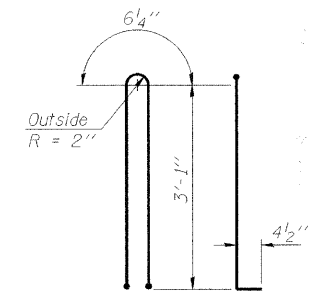
INTERIOR BEAM MOMENT TABLE		
0.5 Sp.		
I	(in ⁴)	48,647.6
I'	(in ⁴)	170,276
S_b	(in ³)	3165.1
S_b'	(in ³)	5884
S_t	(in ³)	2358.1
S_t'	(in ³)	24,118
ϕ	(k/')	0.985
$M\phi$	(k)	379
$s\phi$	(k/')	0.391
$M_s\phi$	(k)	151
M_L	(k)	396
M_{imp}	(k)	111

INTERIOR BEAM REACTION TABLE		
Abut.		
R_R	(k)	27.3
R_L	(k)	10.9
R_L	(k)	32.7
$imp.$	(k)	9.2
R_{Total}	(k)	80.1

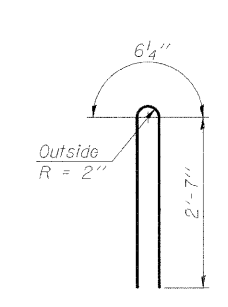
- I : Non-composite moment of inertia of beam section (in⁴).
- I' : Composite moment of inertia of beam section (in⁴).
- S_b : Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_b' : Composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_t : Non-composite section modulus for the top fiber of the prestressed beam (in³).
- S_t' : Composite section modulus for the top fiber of the prestressed beam (in³).
- ϕ : Un-factored non-composite dead load (kips/ft.).
- $M\phi$: Un-factored moment due to non-composite dead load conservatively taken at 0.5 of the span (kip-ft.).
- $s\phi$: Un-factored long-term composite (superimposed) dead load (kips/ft.).
- $M_s\phi$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
- M_L : Un-factored live load moment on the composite section (kip-ft.).
- M_{imp} : Un-factored moment due to impact on the composite section (kip-ft.).



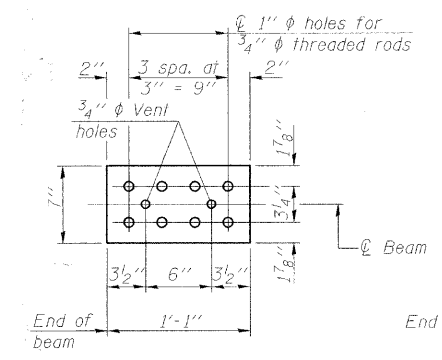
BAR G4



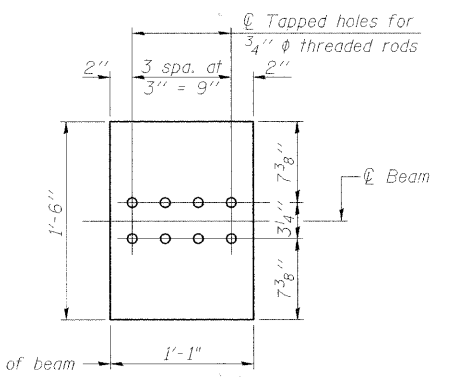
BAR G1



BAR G2



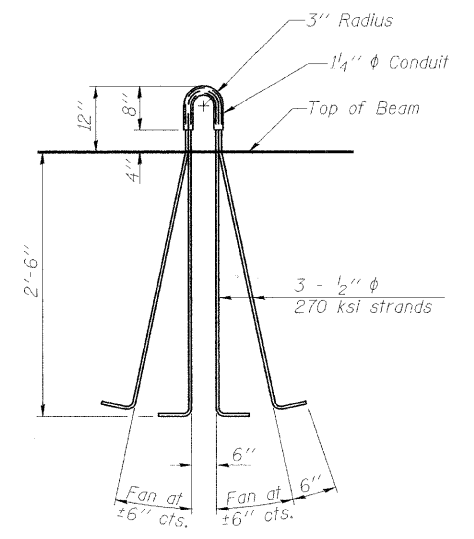
TOP PLATE



BOTTOM PLATE

NOTES

Inserts for 3/4" ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling. The top and bottom plates shall be AASHTO M270 Grade 50. The bottom plates and studs shall be galvanized according to AASHTO M111. Threaded rods shall be ASTM F 1554 Grade 55.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36"	Ft.	398

36" PPC I-BEAM DETAILS
STRUCTURE NO. 056-3174

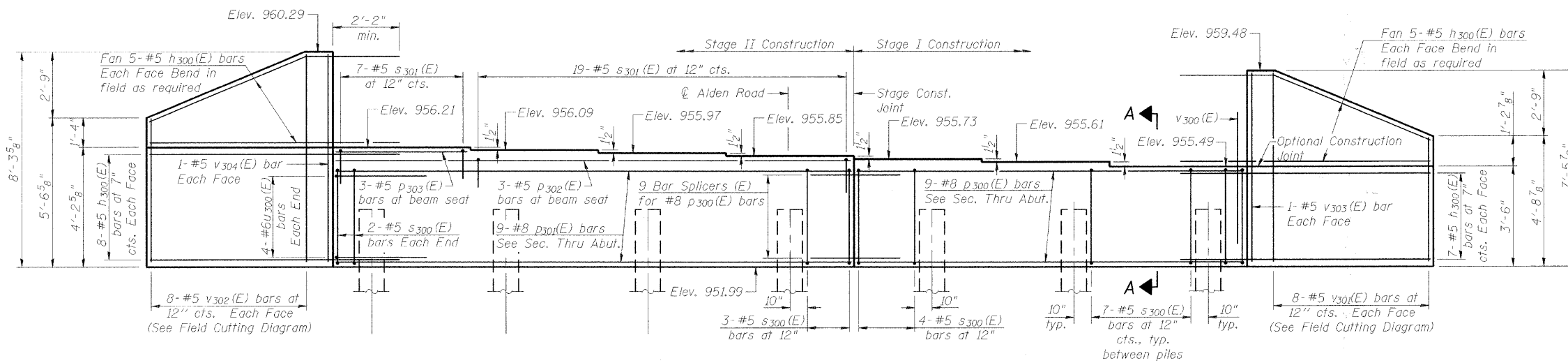
DESIGNED	MDS
CHECKED	LAN
DRAWN	MDS
CHECKED	LAN

TranSystems
1051 Perimeter Drive, Suite 1025
Schaumburg, IL 60173-5058
Phone: (847) 605-9600
Fax: (847) 605-9610

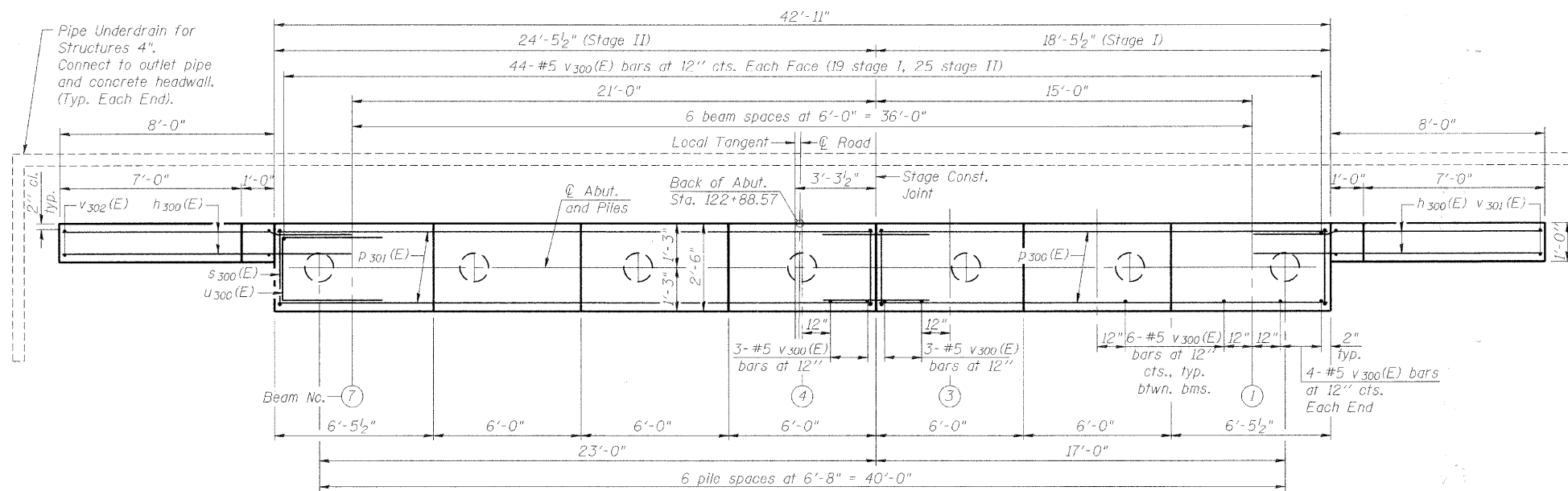
SHEET NO. 16	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22 SHEETS	0026	02-00269-00-BR	McHENRY	153	108
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
			CONTRACT NO. 63212		

lanelson 5/28/2009 E:\608 PM - gp\04\04\0083\structure\sheet\36ppc\012.dwg

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION

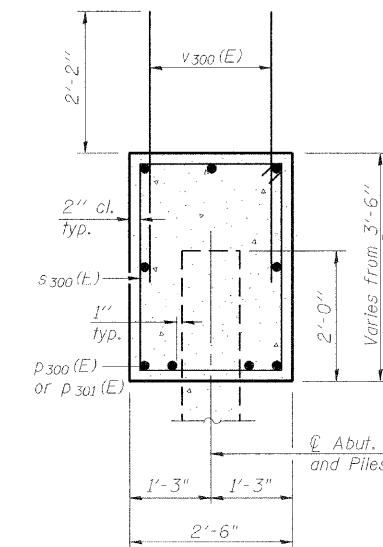


PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h300(E)	50	#5	11'-0"	
p300(E)	9	#8	18'-1"	
p301(E)	9	#8	24'-1"	
p302(E)	3	#5	24'-1"	
p303(E)	3	#5	6'-1"	
s300(E)	46	#5	11'-7"	
s301(E)	26	#5	6'-6"	
u300(E)	8	#6	7'-4"	
v300(E)	88	#5	4'-4"	
v301(E)	8	#5	11'-6"	
v302(E)	8	#5	13'-2"	
v303(E)	2	#5	7'-2"	
v304(E)	2	#5	7'-11"	
Structure Excavation			Cu. Yd.	152
Concrete Structures			Cu. Yd.	19.3
Reinforcement Bars, Epoxy Coated			Pound	3140
Furnishing Metal Shell Piles 14"x0.250"			Foot	420
Driving Piles			Foot	420
Test Pile Metal Shells			Each	1
Pile Shoes			Each	7
Bar Splicers			Each	9
Pipe Underdrains for Structures 4"			Foot	63

Notes:
Four steps monolithically with cap.
For details of Bar Splicers, see sheet 20 of 22.
For details of piles see sheet 19 of 22.



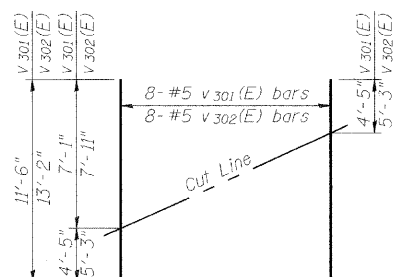
SECTION A-A

SOUTH ABUTMENT
STRUCTURE NO. 056-3174

PILE DATA

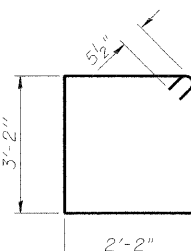
Type: Metal Shell 14" ϕ with 0.25" walls with pile shoes
Nominal Required Bearing: 330 Kips
Allowable Resistance Available: 110 Kips
Est. Length: 70 feet
No. Production Piles: 6
No. Test Piles: 1

DESIGNED	MDS
CHECKED	LAN
DRAWN	MDS
CHECKED	SLC

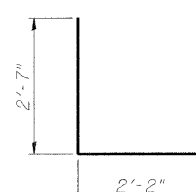


FIELD CUTTING DIAGRAM

Order v301(E) and v302(E) full length.
Cut as shown and use remainder of bars in opposite face.



BAR s300(E)



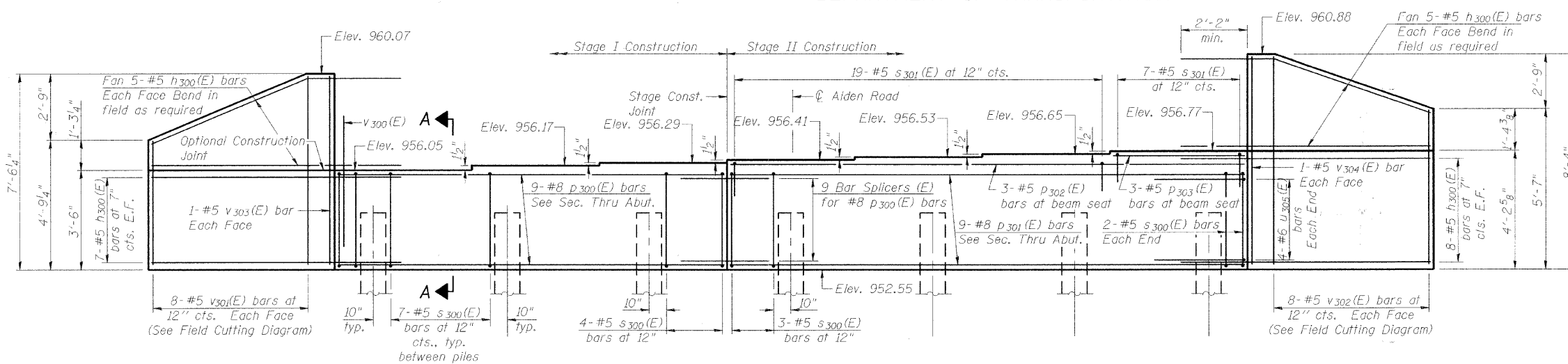
BAR u300(E)



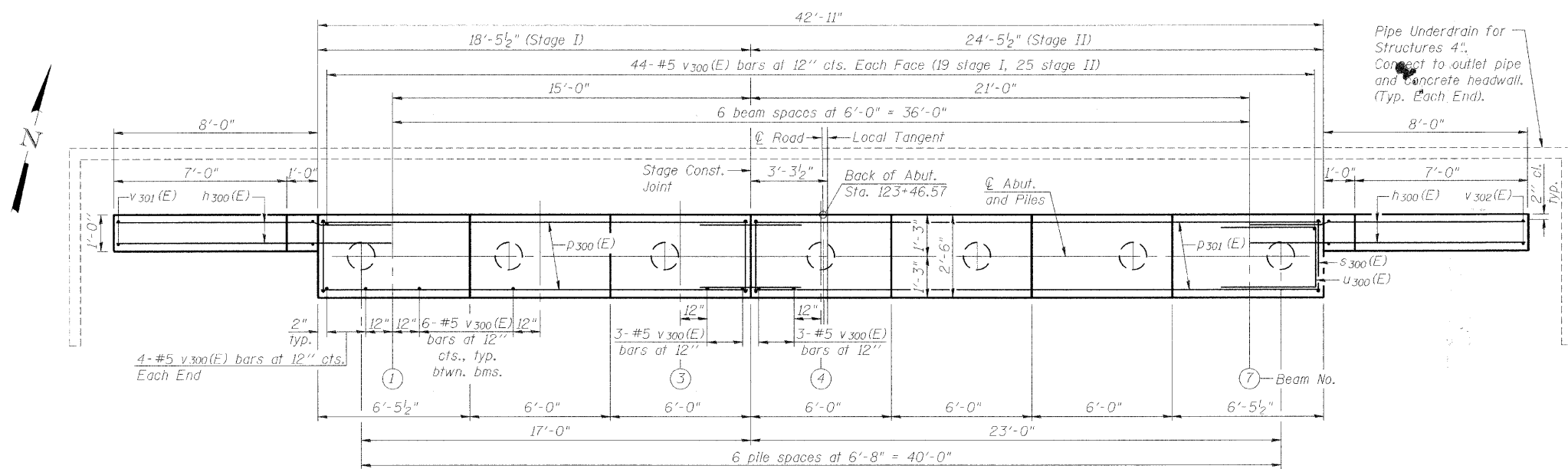
1051 Perimeter Drive, Suite 1025
Schaumburg, IL 60173-5058
Phone: (847) 605-9600
Fax: (847) 605-9610

SHEET NO. 17	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0026	02-00269-00-BR	McHENRY	153	109
22 SHEETS	CONTRACT NO. 63212				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION

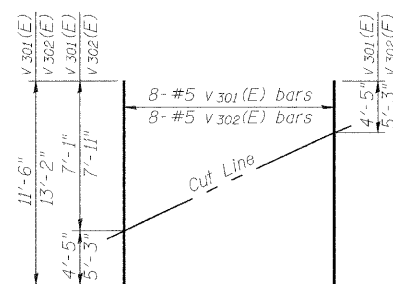


PLAN

PILE DATA

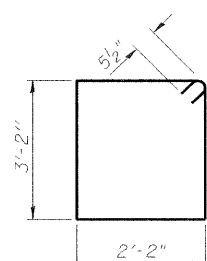
Type: Metal Shell 14" ϕ with 0.25" walls with pile shoes
Nominal Required Bearing: 330 Kips
Allowable Resistance Available: 110 Kips
Est. Length: 70 Feet
No. Production Piles: 6
No. Test Piles: 1

DESIGNED	MDS
CHECKED	LAN
DRAWN	MDS
CHECKED	SLC

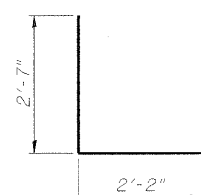


FIELD CUTTING DIAGRAM

Order v301(E) and v302(E) full length.
Cut as shown and use remainder of bars in opposite face.



BAR s300(E)

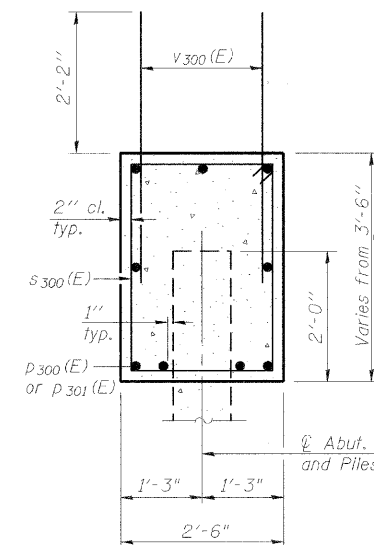


BAR u300(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h300(E)	50	#5	11'-0"	
p300(E)	9	#8	18'-1"	
p301(E)	9	#8	24'-1"	
p302(E)	3	#5	24'-1"	
p303(E)	3	#5	6'-1"	
s300(E)	46	#5	11'-7"	
s301(E)	26	#5	6'-6"	
u300(E)	8	#6	7'-4"	
v300(E)	88	#5	4'-4"	
v301(E)	8	#5	11'-6"	
v302(E)	8	#5	13'-2"	
v303(E)	2	#5	7'-2"	
v304(E)	2	#5	7'-11"	
Structure Excavation	Cu. Yd.	152		
Concrete Structures	Cu. Yd.	19.3		
Reinforcement Bars, Epoxy Coated	Pound	3140		
Furnishing Metal Shell Piles 14"x0.250"	Foot	420		
Driving Piles	Foot	420		
Test Pile Metal Shells	Each	1		
Pile Shoes	Each	7		
Bar Splicers	Each	9		
Pipe Underdrains for Structures 4"	Foot	63		

Notes:
Pour steps monolithically with cap.
For details of Bar Splicers, see sheet 20 of 22.
For details of piles, see sheet 19 of 22.



SECTION A-A

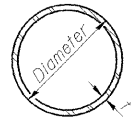
NORTH ABUTMENT
STRUCTURE NO. 056-3174



1051 Perimeter Drive, Suite 1025
Schaumburg, IL 60173-5058
Phone: (847) 605-9600
Fax: (847) 605-9610

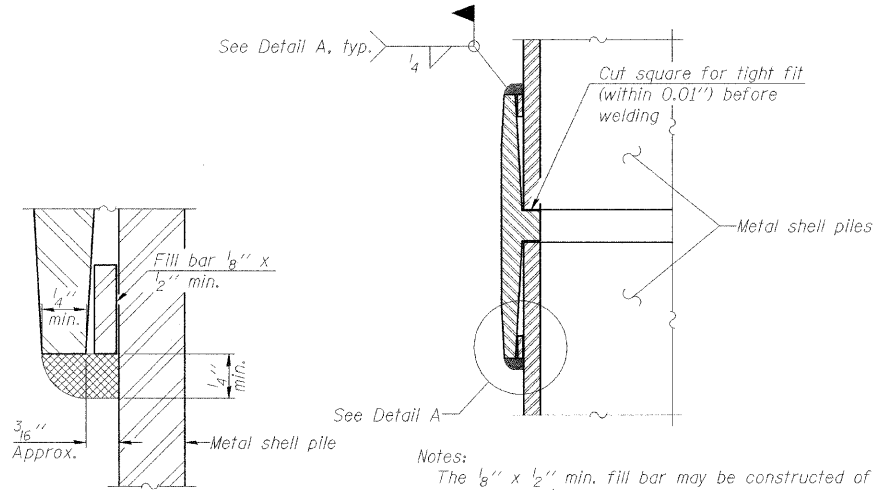
SHEET NO. 18	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0026	02-00269-00-BR	McHENRY	153	110
22 SHEETS	CONTRACT NO. 63212				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



METAL SHELL PILE TABLE

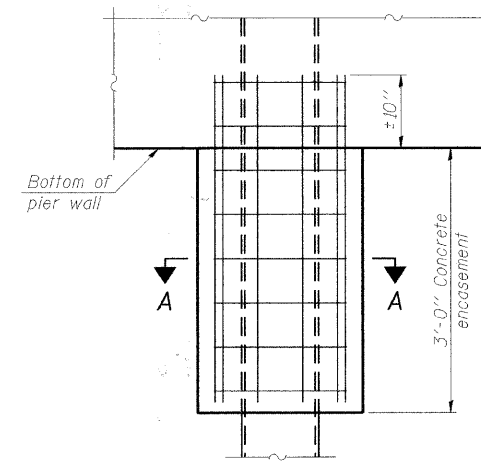
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



DETAIL A

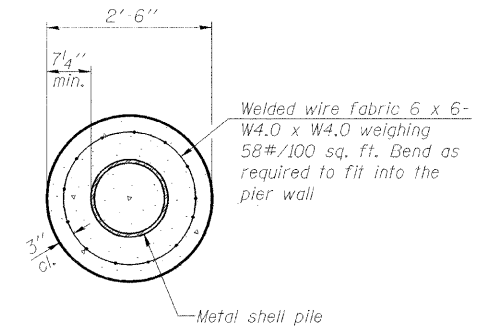
Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



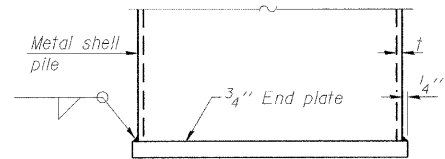
ELEVATION

CONCRETE ENCASEMENT AT PIERS

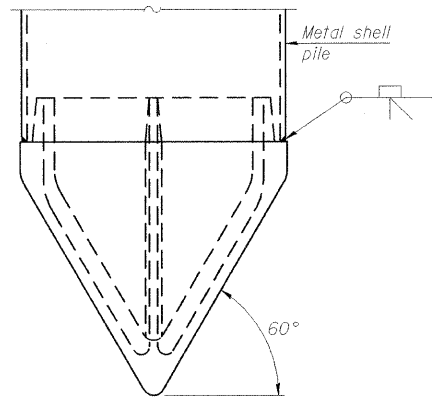


SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.



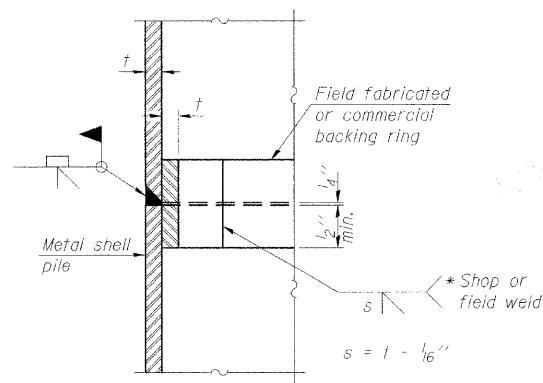
END PLATE ATTACHMENT



METAL SHELL PILE SHOE ATTACHMENT

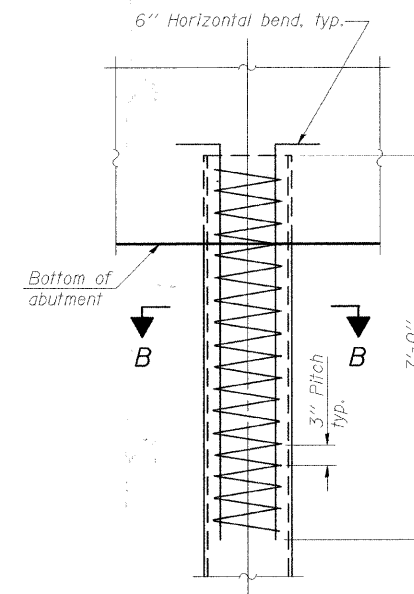
(See Note A)

Note A:
When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.



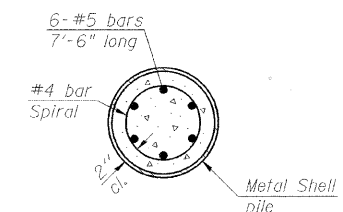
COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION

METAL SHELL REINFORCEMENT AT ABUTMENTS



SECTION B-B

Note:
The metal shell piles shall be according to ASTM A 252 Grade 3.

METAL SHELL PILE DETAILS
STRUCTURE NO. 056-3174

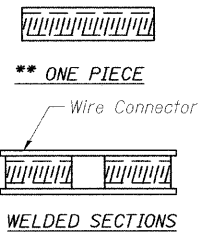
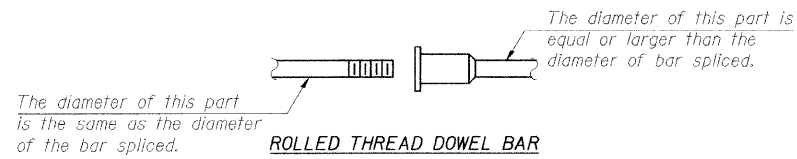
DESIGNED	LAN
CHECKED	SLC
DRAWN	LAN
CHECKED	SLC

F-MS

10-1-08

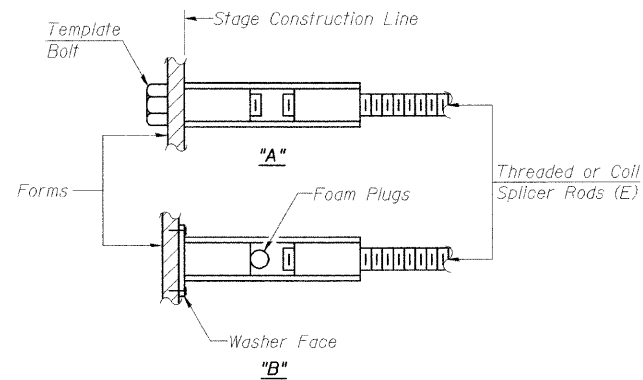
SHEET NO. 19	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0026	02-00269-00-BR	McHENRY	153	111
22 SHEETS	CONTRACT NO. 63212				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

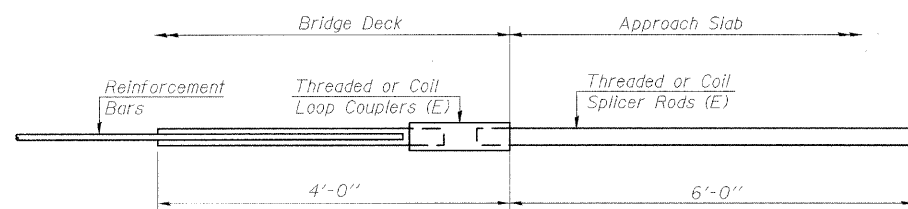
NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity = $1.25 \times f_y \times A_t$
(Tension in kips)
- ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_t$
(Tension in kips)

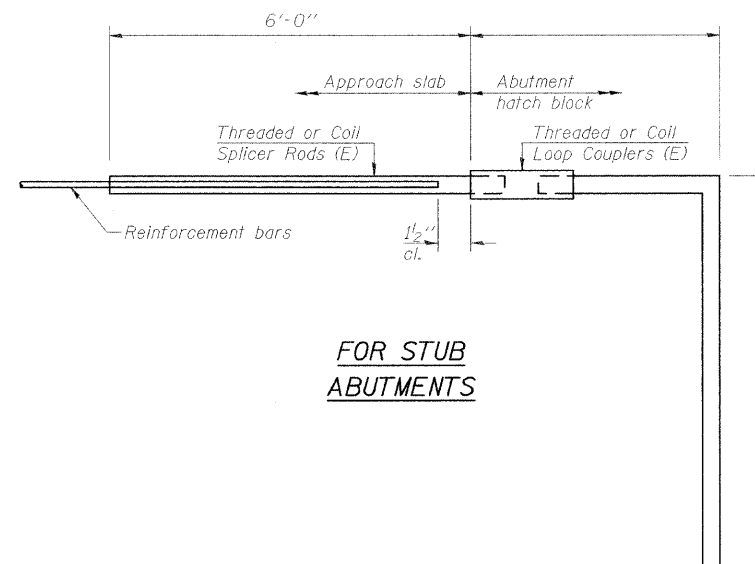
Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



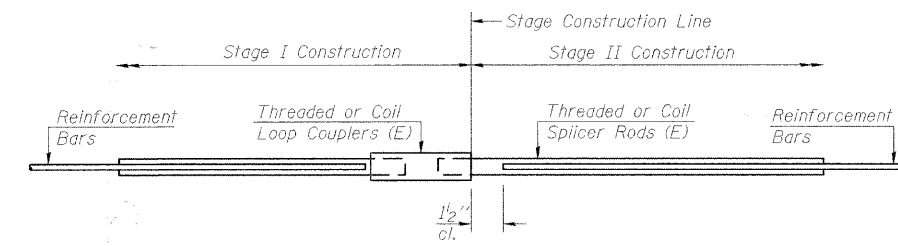
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	12.3 kips - tension
No. Required =	92



FOR STUB ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	12.3 kips - tension
No. Required =	



STANDARD

Bar Size	No. Assemblies Required	Location
#5	149	Deck
#6	14	Diaphragms
#8	18	Abutments
#4	54	Approaches
#5	176	Approaches

**BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 056-3174**

DESIGNED	LAN
CHECKED	SLC
DRAWN	LAN
CHECKED	SLC

BSD-1

10-1-08

SHEET NO. 20	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0026	02-00269-00-BR	McHENRY	153	112
22 SHEETS	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63212					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Sh. _____ of _____ Sh.

FOUNDATION BORING LOG

PROJECT BRS-0026 (103) Alden Road Over Creek Date 8/19/04
 ROUTE FAS 0026 North of IL Route 173 Bored By Groundbreaking Exp.
 SEC. 02-00269-00-BR STA _____ Checked By Tim Dunne
 COUNTY McHenry
 Boring No. BB-1
 Station _____
 Offset 5' LOC
 Surface Water El. -12.5'
 Groundwater El. at Completion cave-in
 After _____ Hours _____

Elevation	Blows	Cu /s.f.	w(%)	Soil Description	Elevation	Blows	Cu /s.f.	w(%)
0				Asphalt 8.5" Soft				
	6			Brown, Black and Gray SILTY CLAY LOAM (Fill)		2		
	8					4		
	8	0.5	22			5		11.9
-5	5			Loose Gray Silty SAND		2		
	4					3		
	5	0.5	19			3		20.8
-10	2			Loose Brown Fine SAND		3		
	3					3		
	2		13			3		20.7
-15	2			Loose to Medium Dense Brown Fine to Medium SAND Free Water Encountered				
	3					1		
	5		11					
-20	5			Loose Gray Fine SAND		3		
	7					3		
	10		12			7		22.0
-25	6			Medium Dense to Dense Gray Fine to Medium SAND Trace Gravel				
	10					9		
	7		13			13		
-30	5			Medium Dense to Dense Gray Fine to Medium SAND Trace Gravel		9		
	5					13		
	6		7			17		8.4
-35	5			Medium Dense Gray Fine SAND				
	7					9		
	8		21			14		
-40	4			Medium Dense Gray Fine SAND				
	6					14		
	6		19			17		7.6

FOUNDATION BORING LOG

Sh. 2 of 2 Sh.

Boring No. BB-1 PSI File No. _____

Elevation	Blows	Cu /s.f.	w(%)	Soil Description	Elevation	Blows	Cu /s.f.	w(%)
-45				Loose Brown Fine SAND		4		
	2					2		
	4		15			4		
-50				Medium Dense to Dense Gray Fine to Coarse SAND with Gravel		5		
	10					10		
	11		12			11		
-55				Loose Gray Fine SAND		7		
	9					9		
	6		13			6		
-60				Medium Dense to Dense Gray Fine to Medium SAND Trace Gravel		8		
	11					11		
	16		14			16		
-65				Medium Dense Gray Fine SAND		27		
	15					15		
	19		8			19		

End of Boring @ 70'

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**SOIL BORING LOGS
STRUCTURE NO. 056-3174**



SHEET NO. 21	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0026	02-00269-00-BR	McHENRY	153	113
22 SHEETS		CONTRACT NO. 63212			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

05/29/03

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Sh. 1 of 2 Sh.

FOUNDATION BORING LOG

PROJECT BRS-0026 (103) Alden Road Over Creek Date 8/19/04
 ROUTE FAS 0026 North of IL Route 173 Bored By Groundbreaking Exp.
 SEC. 02-00269-00-BR STA. _____ Checked By Tim Dunne
 COUNTY McHenry
 Boring No. BB-2
 Station _____
 Offset 5' LOC
 Surface Water El. -12.5'
 Groundwater El. at Completion cave-in
 After _____ Hours _____

Elevation	Blows	Qu (t/sf)	w(%)	Soil Description	Elevation	Blows	Qu (t/sf)	w(%)
0				Ground Surface				
				Asphalt 9.5" Soft				
	6			Brown, Black and Gray SILTY CLAY LOAM (Fill)		2		
	7					3		
	8	.75	24			4		20.8
	5			Loose to Medium Dense Gray Fine to Medium SAND		2		
	5					3		
-5	5	0.5	22			5		12.6
	2			Loose Brown Fine SAND		4		
	3					6		
	3		12			10		13.9
	2			Loose to Medium Dense Brown Fine to Medium SAND Free Water Encountered		5		
	2					13		
-10	4		11			12		11.4
	5			Medium Dense to Dense Gray Fine SAND		7		
	7					13		
	7		23			18		6.7
	5			Medium Dense Gray Fine SAND		11		
	7					14		
-20	6		18			15		7.7
	5			Medium Dense Gray Fine SAND		11		
	7					14		
	8		20			15		7.7

FOUNDATION BORING LOG

Sh. 2 of 2 Sh.

Boring No. BB-2 PSI File No. _____

Elevation	Blows	Qu (t/sf)	w(%)	Soil Description	Elevation	Blows	Qu (t/sf)	w(%)
				Loose Brown Fine SAND		5		
						4		
						6		15
				Medium Dense to Dense Gray Fine to Coarse SAND with Gravel		5		
						9		
						13		12
				Medium Dense to Dense Gray Fine to Medium SAND Trace Gravel		8		
						11		
						14		13
						14		13
				Medium Dense Gray Fine SAND		10		
						13		
						16		12
						16		12
				Medium Dense Gray Fine SAND		18		
						17		
						21		7

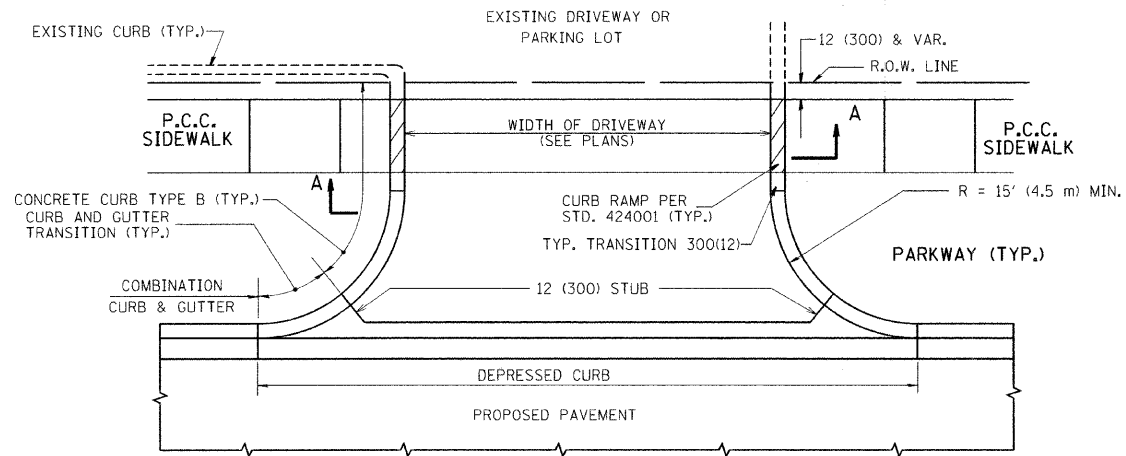
End of Boring @ 70'

SOIL BORING LOGS
STRUCTURE NO. 056-3174

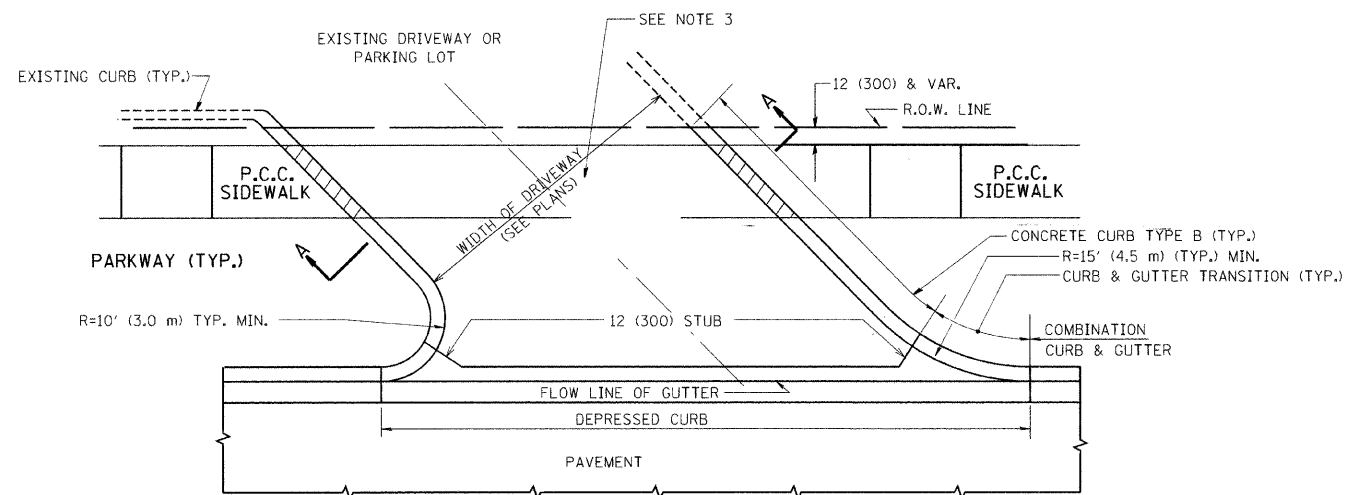


1051 Perimeter Drive, Suite 1025
Schaumburg, IL 60173-5058
Phone: (847) 605-9600
Fax: (847) 605-9610

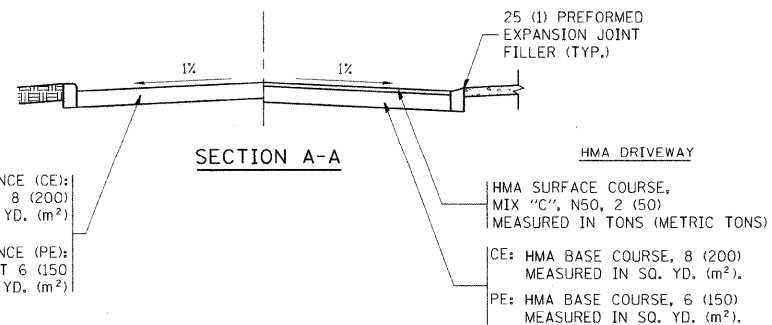
SHEET NO. 22	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0026	02-00269-00-BR	McHENRY	153	114
22 SHEETS	CONTRACT NO. 63212				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			



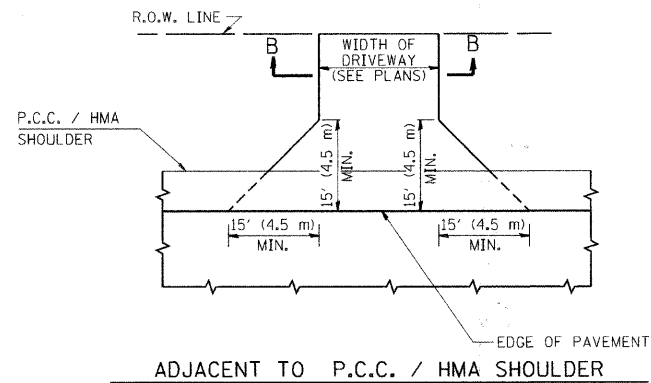
WITH CONCRETE CURB, TYPE B



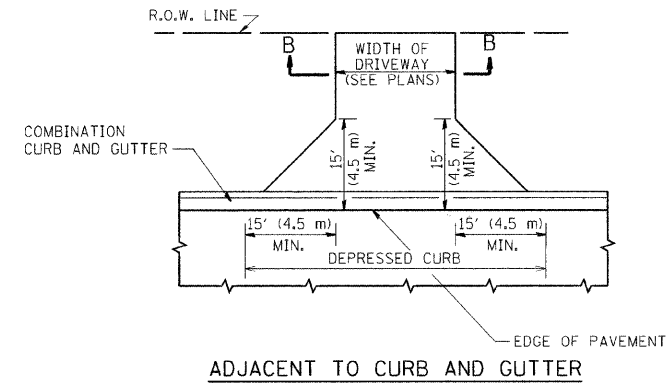
WITH CONCRETE CURB, TYPE B



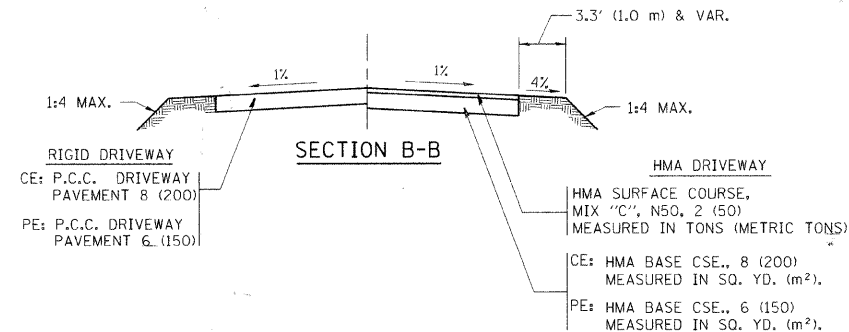
SECTION A-A



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



SECTION B-B

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

RURAL FIELD ENTRANCE (FE)
HMA SURFACE COURSE,
MIX "C", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)
AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

FILE NAME =
c:\projects\diststd22x34\bd01.dgn

USER NAME = bawordl
PLOT SCALE = 49,9999' / IN.
PLOT DATE = 6/12/2008

DESIGNED - R. SHAH
DRAWN -
CHECKED -
DATE - 11-04-95
REVISED - M. GOMEZ 04-06-01
REVISED - P. LOFLUER 04-15-03
REVISED - R. BORO 01-01-07
REVISED - R. BORO 06-11-08

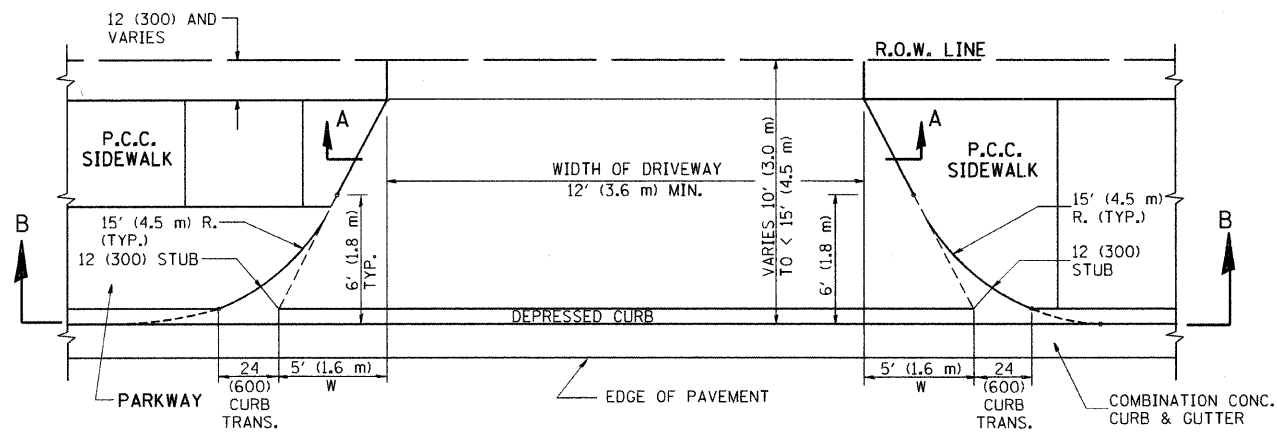
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

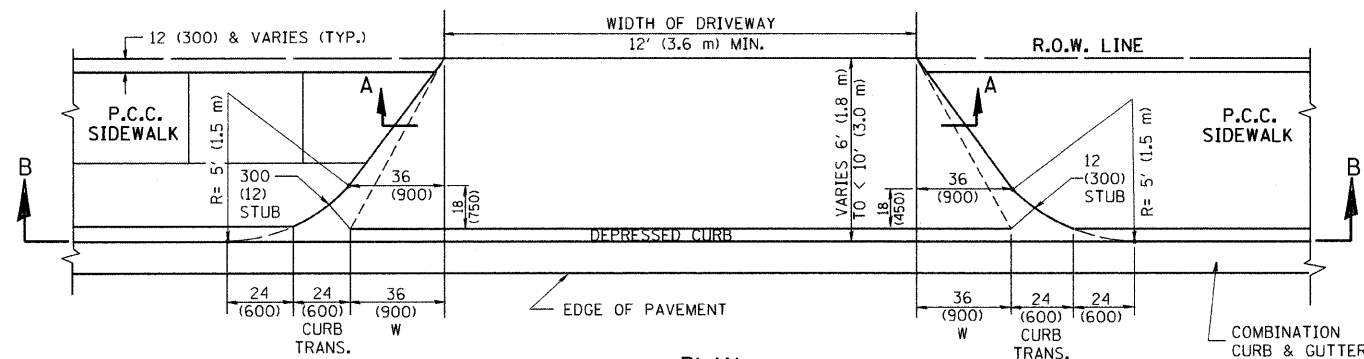
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD0156-07 (BD-01)				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

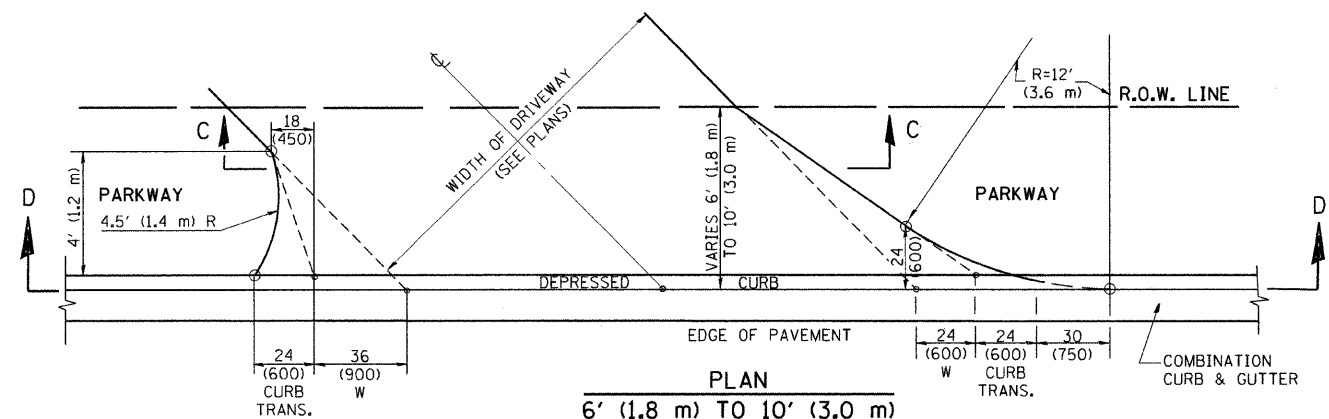
CONTRACT NO. 63212



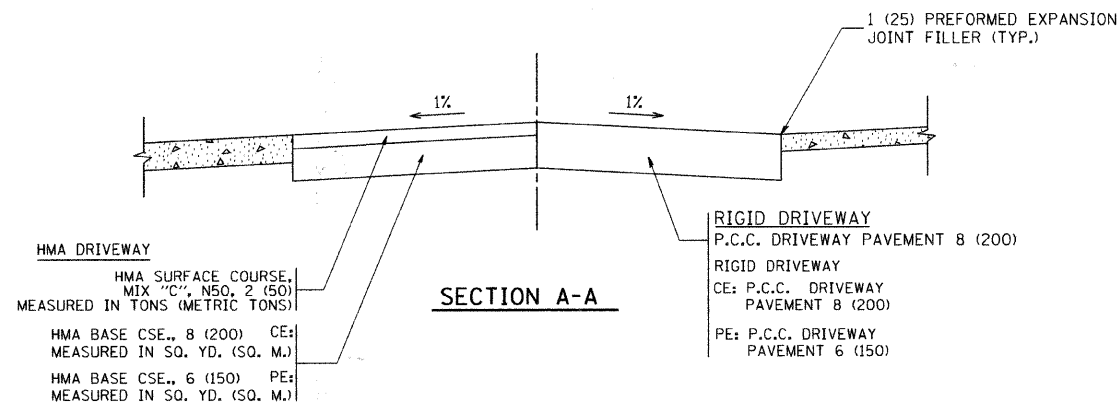
PLAN
10' (3.0 m) TO < 15' (4.5 m)



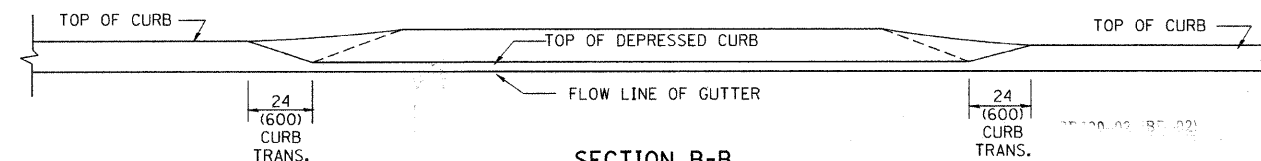
PLAN
6' (1.8 m) TO < 10' (3.0 m)



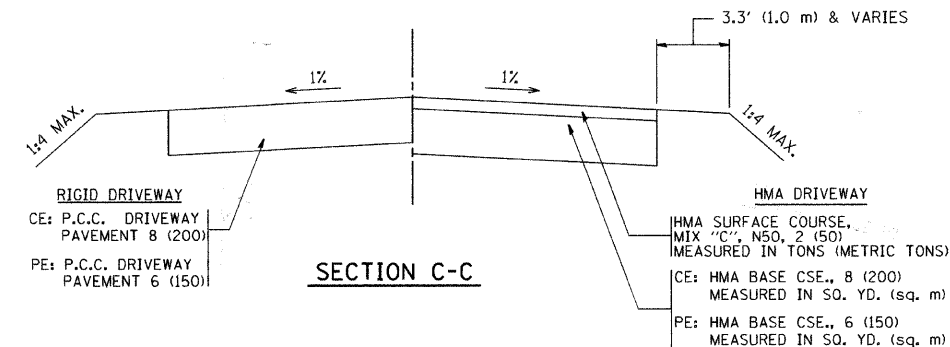
PLAN
6' (1.8 m) TO 10' (3.0 m)



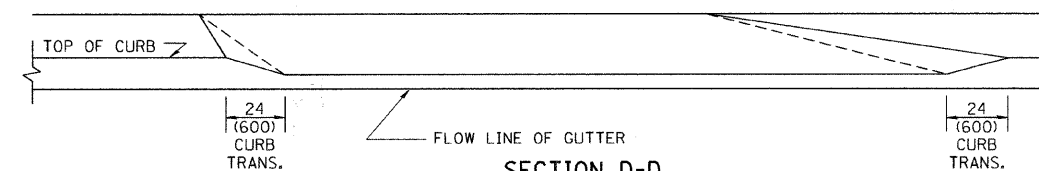
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

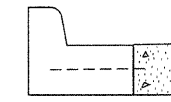
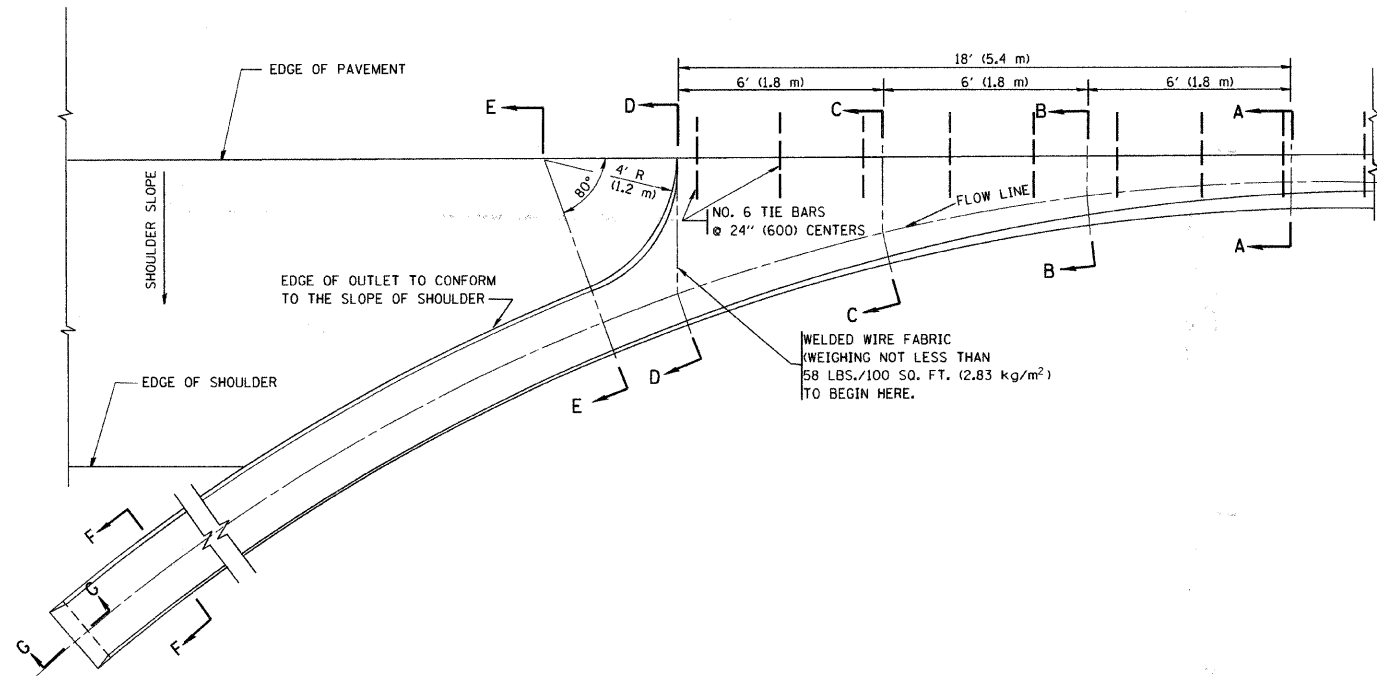
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

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		DRAWN -	REVISED - M. GOMEZ 04-06-01
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - P. LOFLEUR 04-15-03
	PLOT DATE = 1/4/2008	DATE - 11-06-95	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

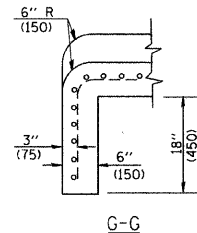
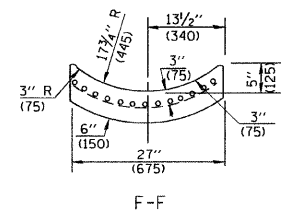
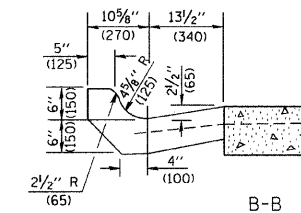
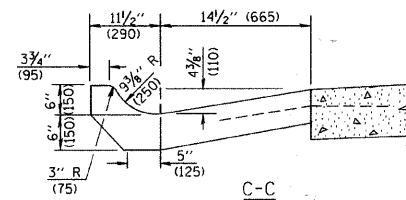
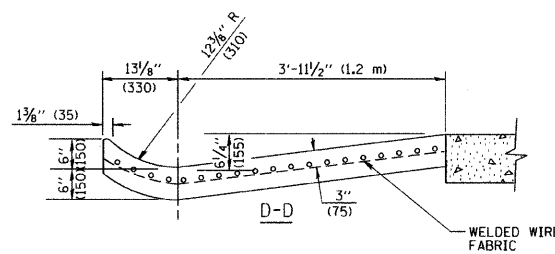
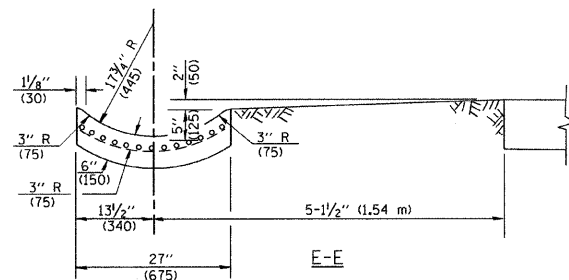
DRIVEWAY DETAILS			
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0026	02-00269-00-BR	MCHENRY	153	116
BD400-02 (BD-02)				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



A-A *

* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



GENERAL NOTES

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO.6) AT 24\"/>

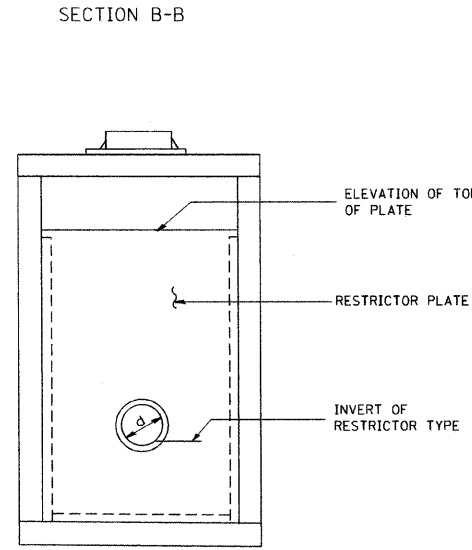
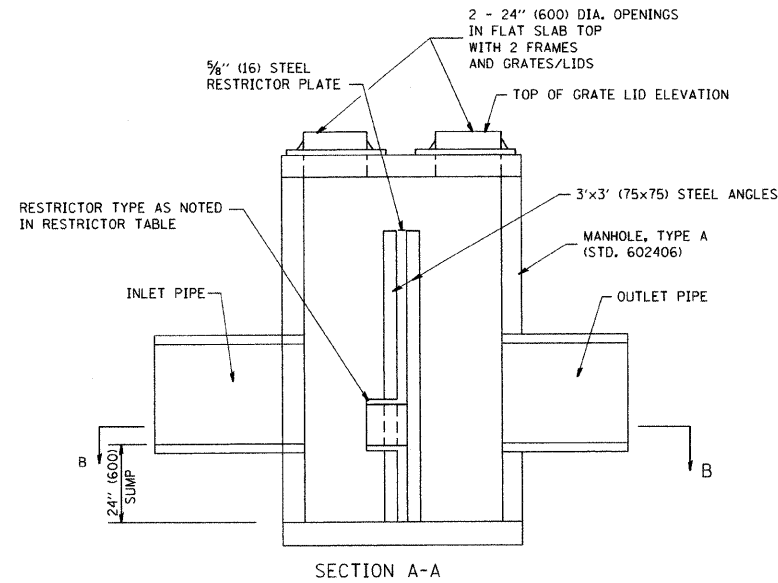
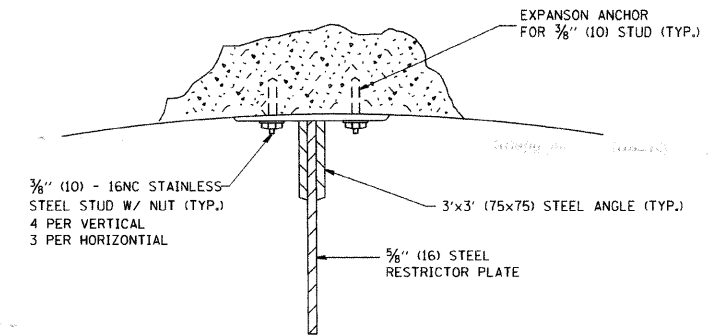
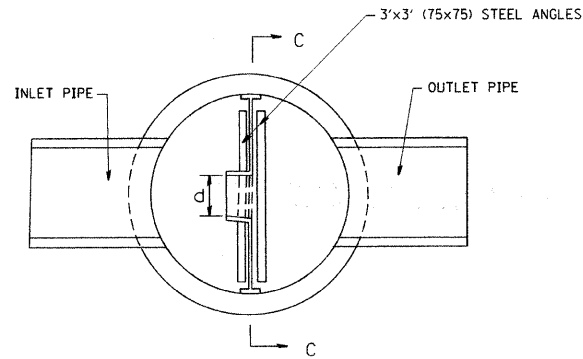
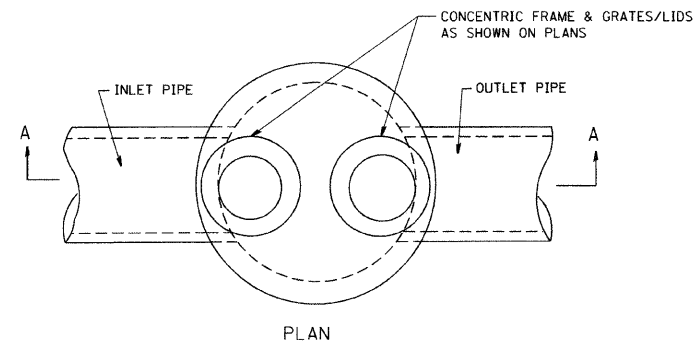
IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6\"/>

QUANTITIES

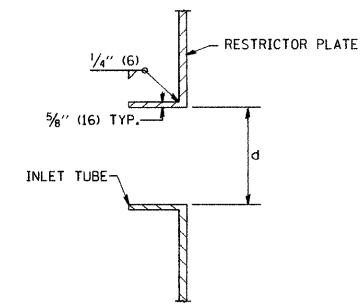
FOR SECTION A-A TO E-E AND CURTAIN WALL= 1.25 CU. YDS. (0.96 m³) CLASS SI CONCRETE (OUTLET) FOR 9\"/>

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

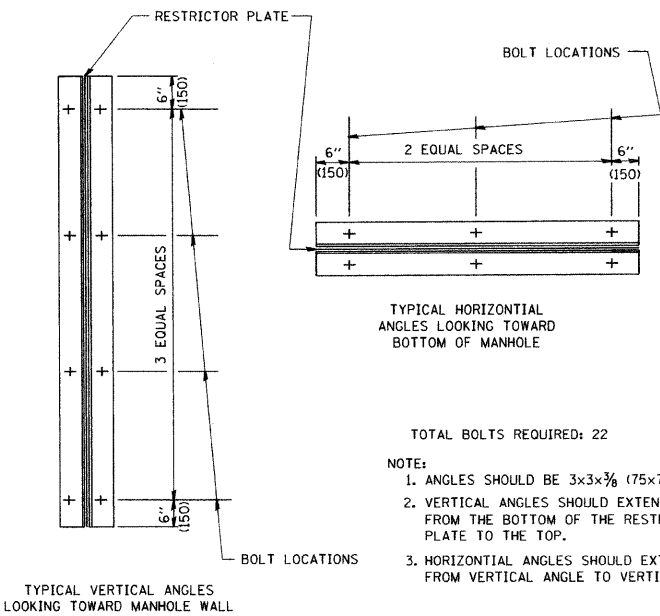
FILE NAME = W:\dstatd\22x34\bd03.dgn	USER NAME = goglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OUTLET FOR CONCRETE CURB AND GUTTER		F.A. RTE. = 0026	SECTION = 02-00269-00-BR	COUNTY = MCHENRY	TOTAL SHEETS = 153	SHEET NO. = 117
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94		REVISED - R. SHAH 10-25-94	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD600-01 (BD-03) CONTRACT NO. 63212 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
PLOT DATE = 1/4/2008	DATE = 08-04-86	REVISOR = E. GOMEZ 12-21-00	REVISED -								



- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
 2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
 3. BASIS OF PAYMENT: 'MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE' EACH



STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
107+18, 18 LT	6 FOOT	TYPE 1	2	11 1/8"	996.69	998.50
121+00, 22 LT	6 FOOT	TYPE 1	2	15 1/8"	957.12	959.10
124+77, 15 RT	6 FOOT	TYPE 1	2	4 1/2"	956.88	961.90

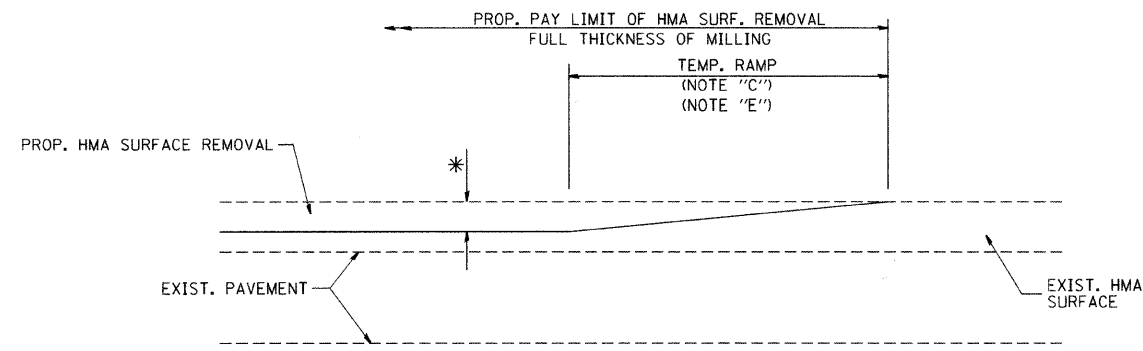


- TOTAL BOLTS REQUIRED: 22
- NOTE:
1. ANGLES SHOULD BE 3x3x3/8 (75x75x75)
 2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
 3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

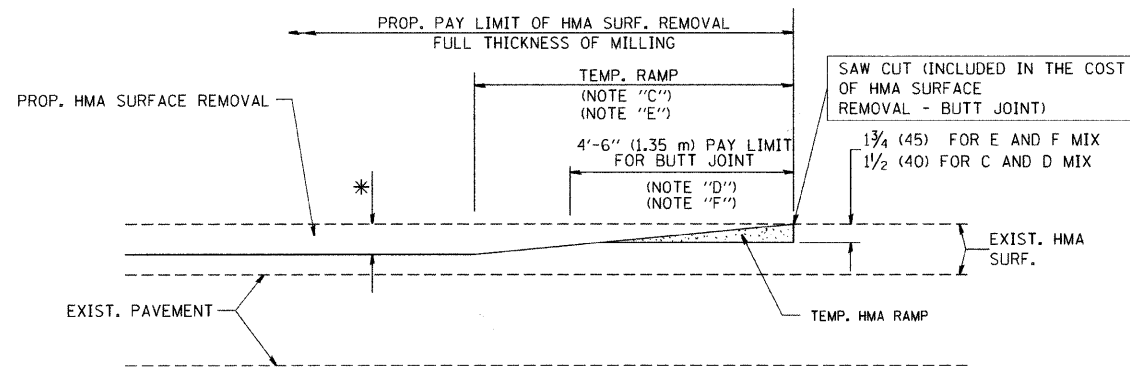
VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

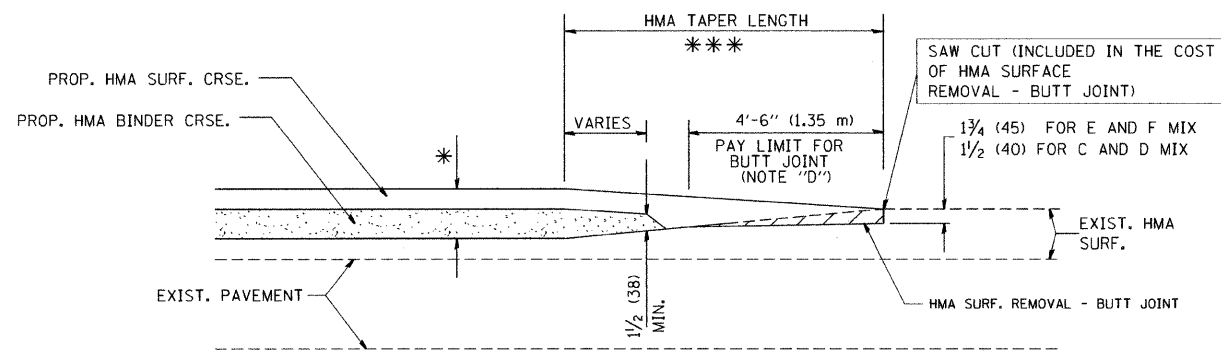
OPTION 1



HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

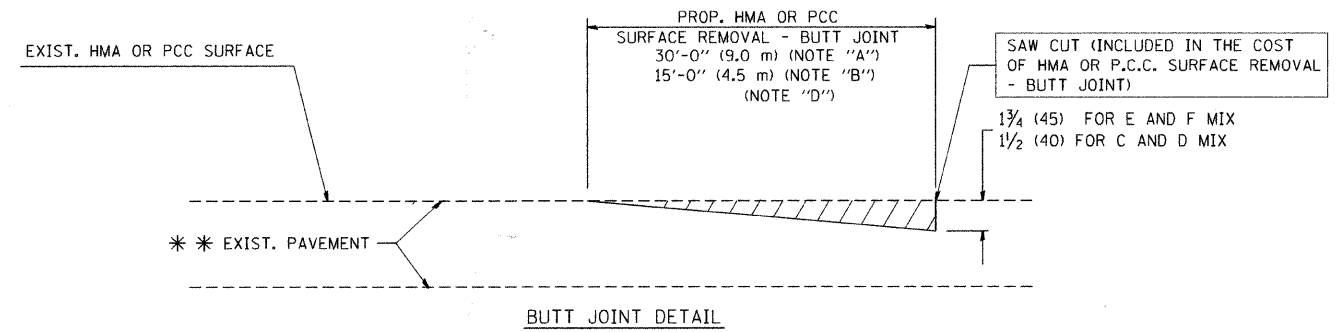
OPTION 2

TYPICAL TEMPORARY RAMP

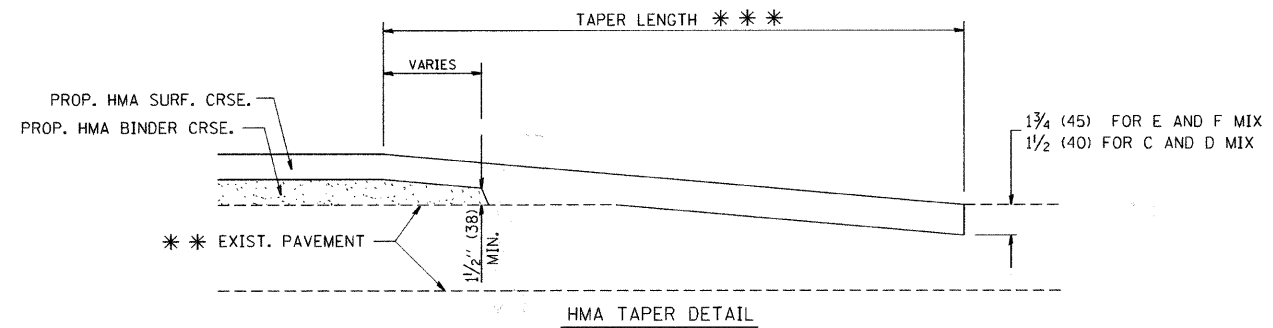


BUTT JOINT AND
HMA TAPER

**TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING**



BUTT JOINT DETAIL



HMA TAPER DETAIL

**TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY**

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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PLOT DATE = 1/4/2008

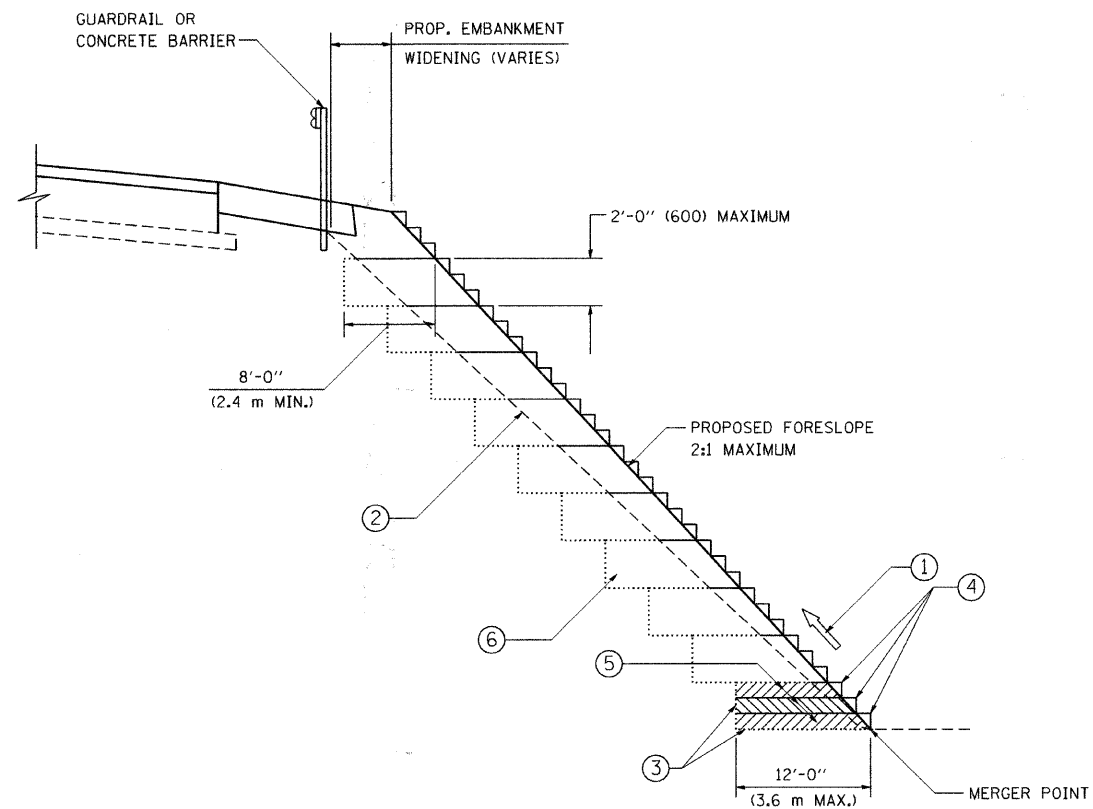
DESIGNED - M. DE YONG
DRAWN -
CHECKED -
DATE - 06-13-90

REVISED - R. SHAH 10-25-94
REVISED - A. ABBAS 03-21-97
REVISED - M. GOMEZ 04-06-01
REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			153	119
BD400-05 BD32		CONTRACT NO. 63212		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



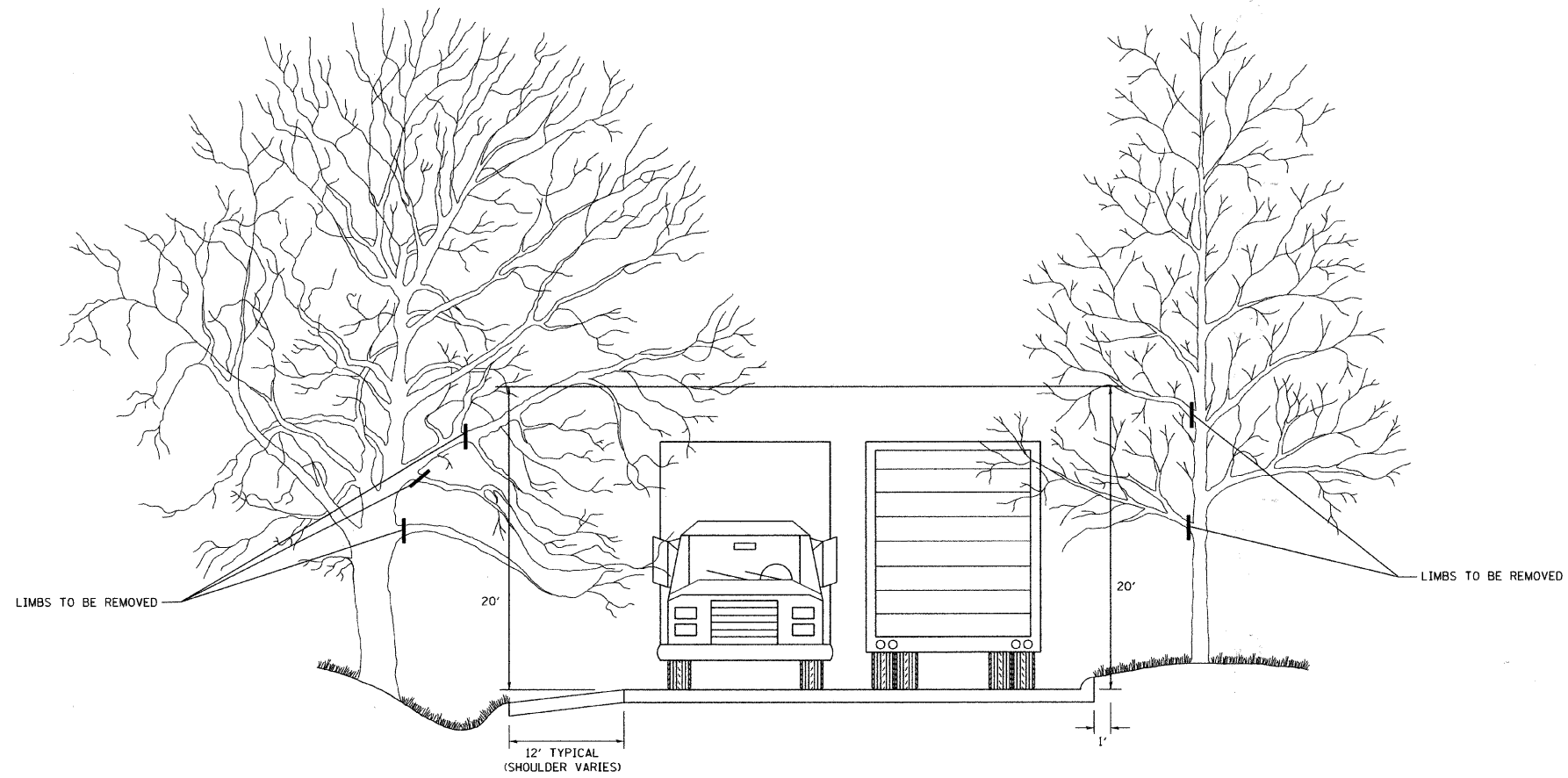
**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

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		DRAWN - CADD	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.				153	120
		CHECKED - S.E.B.	REVISED -									
		DATE - 06-16-04	REVISED -									
PLOT SCALE = 50.0000' / IN.		PLOT DATE = 1/4/2008										
							BD-51		CONTRACT NO. 63212			
							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



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PLOT DATE = 1/4/2008

DESIGNED -
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DATE -

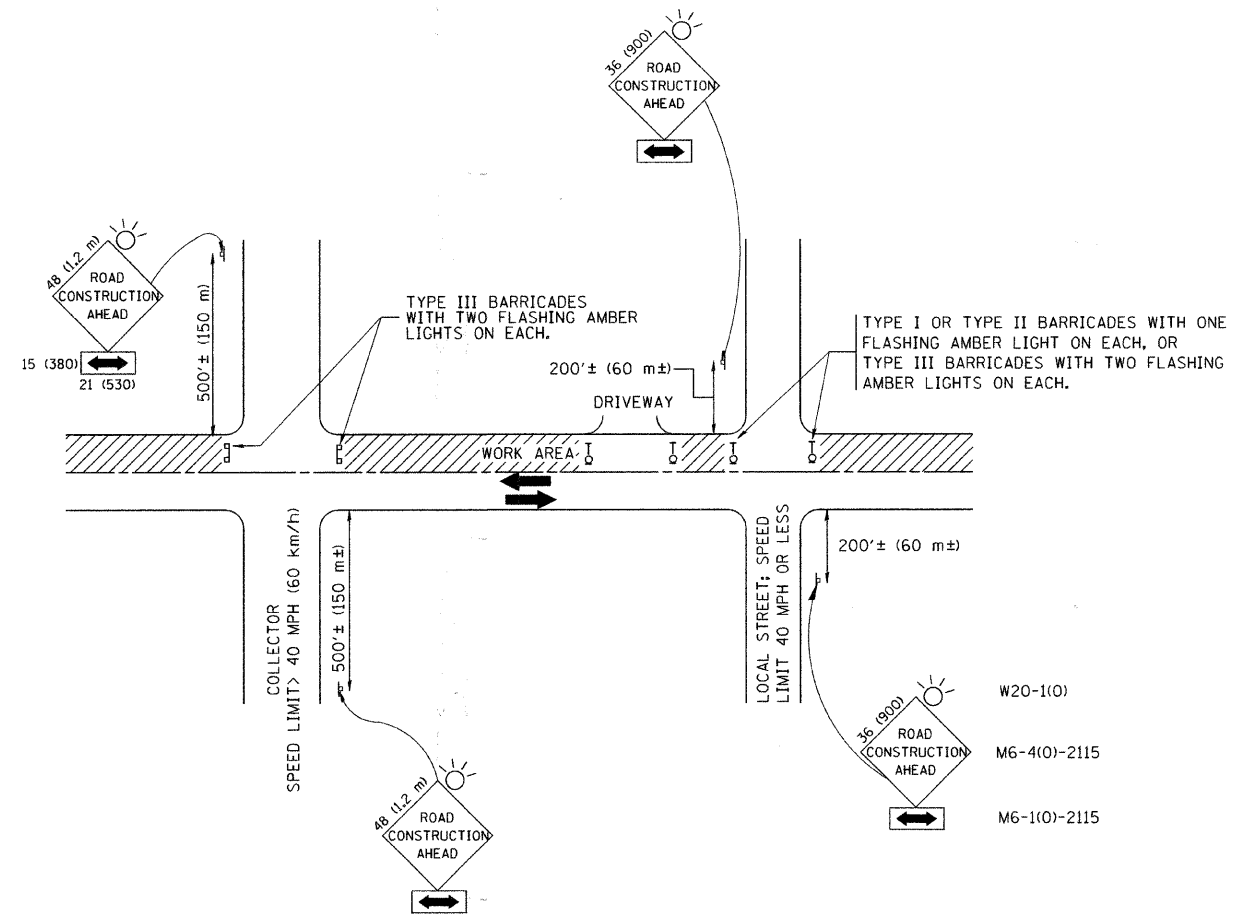
REVISED - R. BORO 10-31-06
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRUNING FOR SAFETY AND
EQUIPMENT CLEARANCE**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0026	02-00269-00-BR	MCHENRY	153	121
BM-20			CONTRACT NO. 63212	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



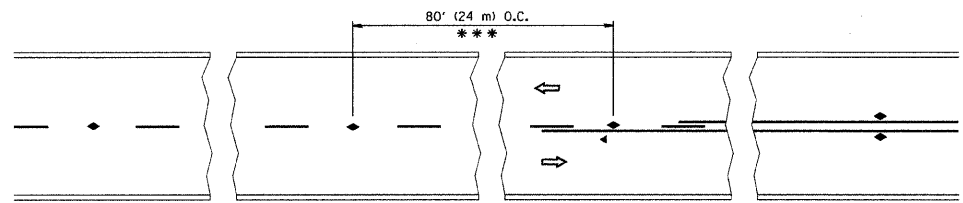
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

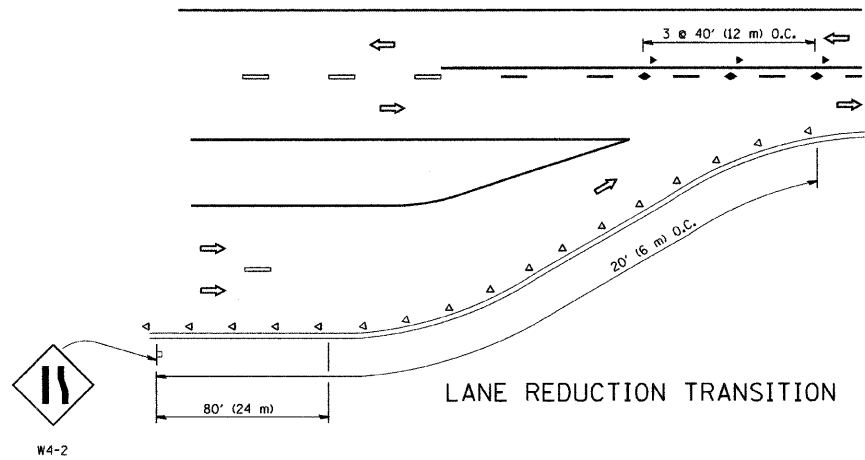
- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS:
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

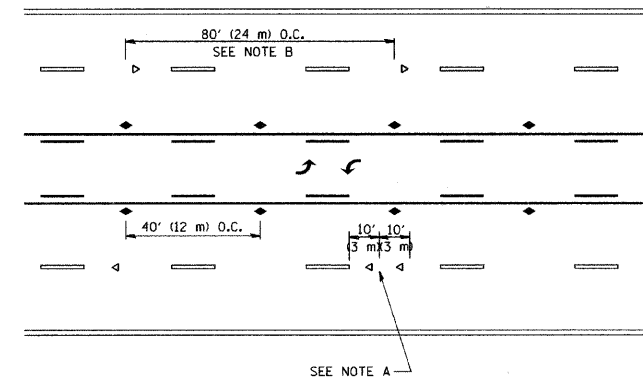
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	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - A. HOUSEH 03-06-96		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TC-10		CONTRACT NO. 63212	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - A. HOUSEH 10-15-96					FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT	
		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00								



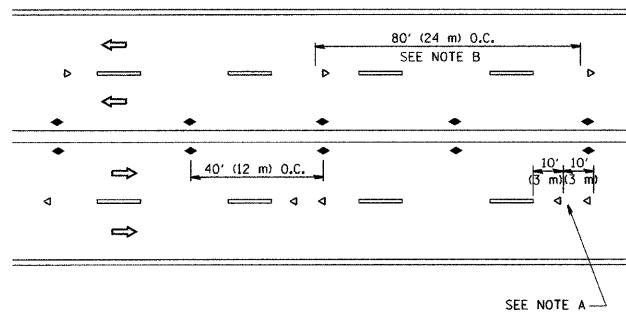
TWO-LANE/TWO-WAY



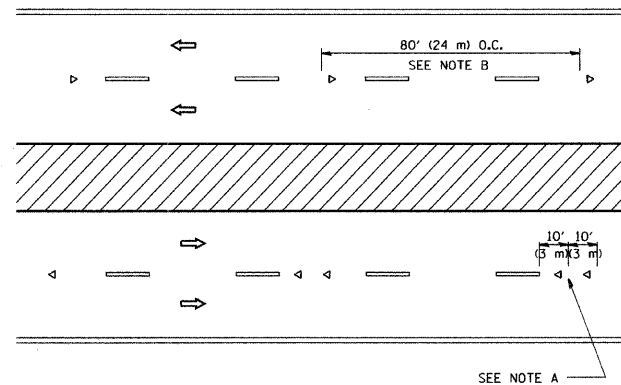
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

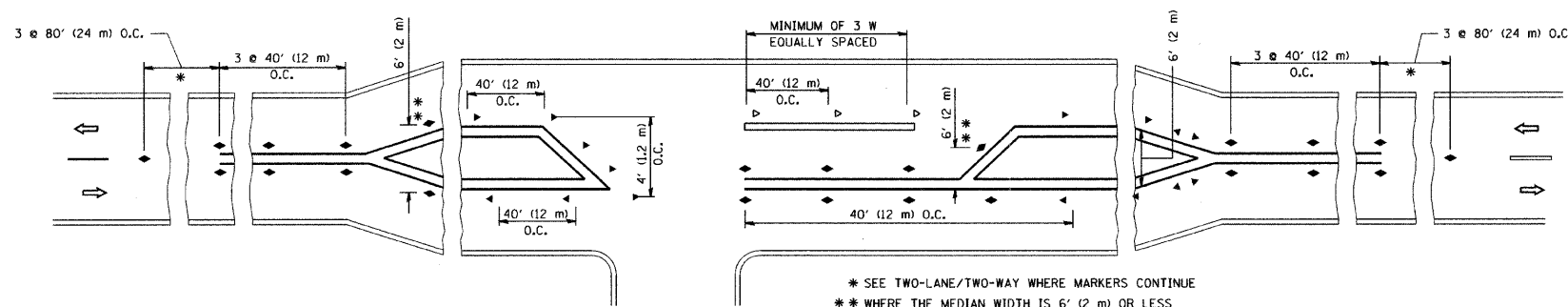
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

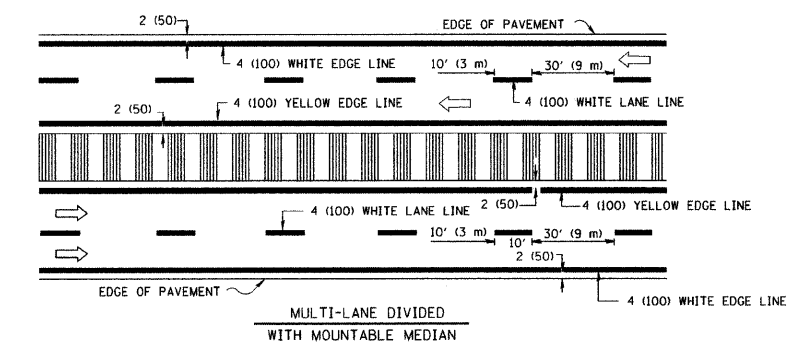
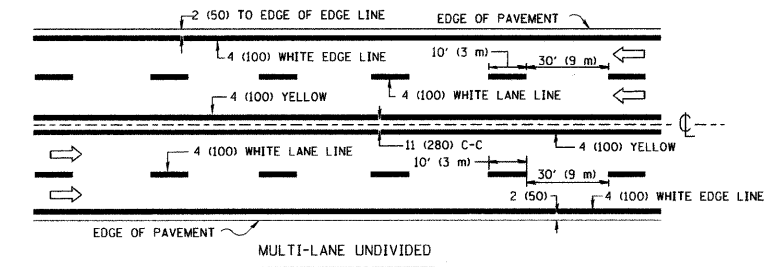
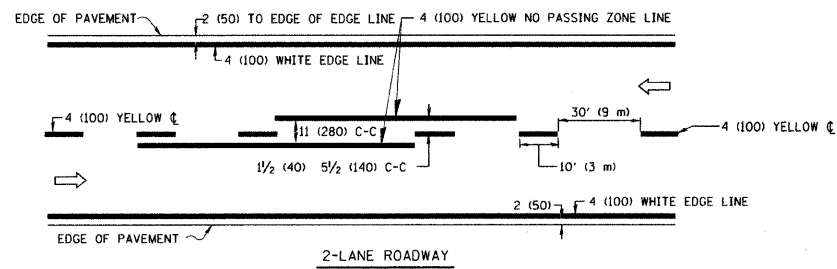


LEFT TURN

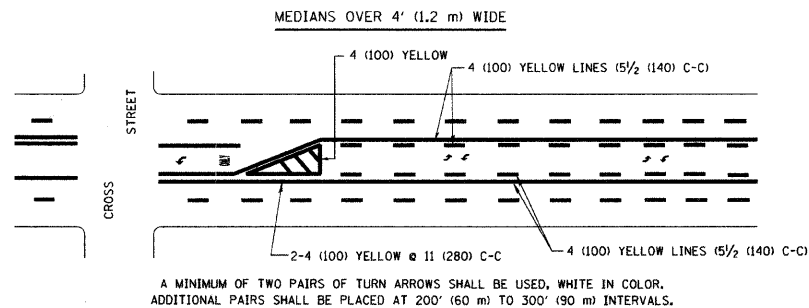
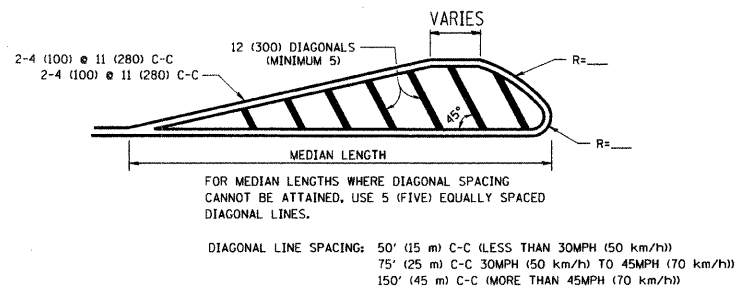
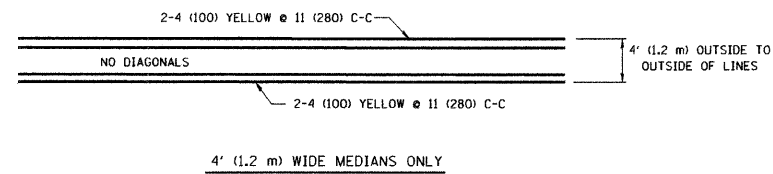
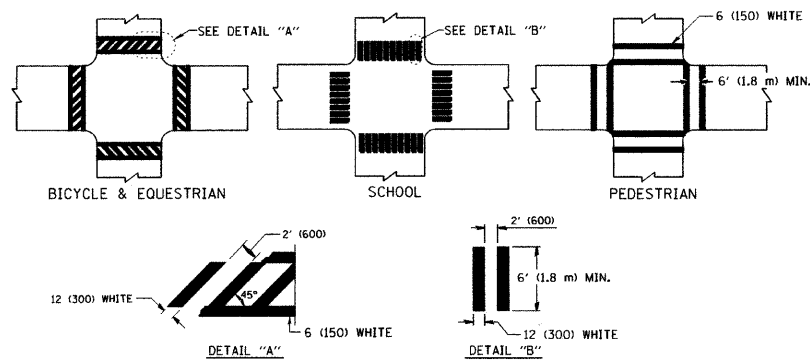
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	0026	02-00269-00-BR	MCHENRY	153	123
	PLOT DATE = 1/4/2008	DATE -	REVISED -									TC-11			
												FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

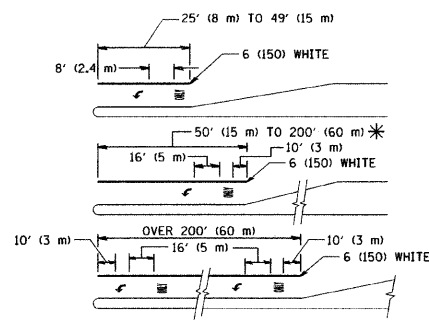
CONTRACT NO. 63212



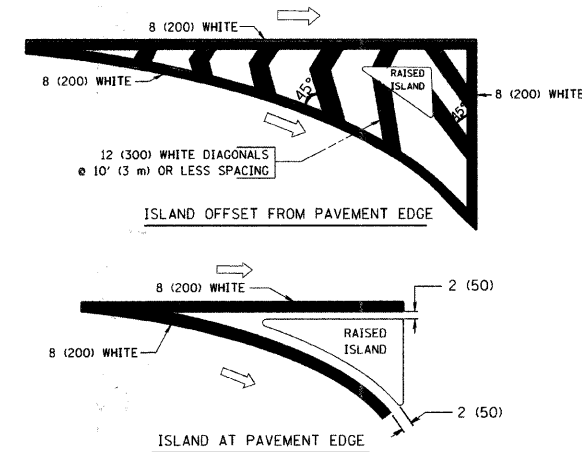
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 78001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

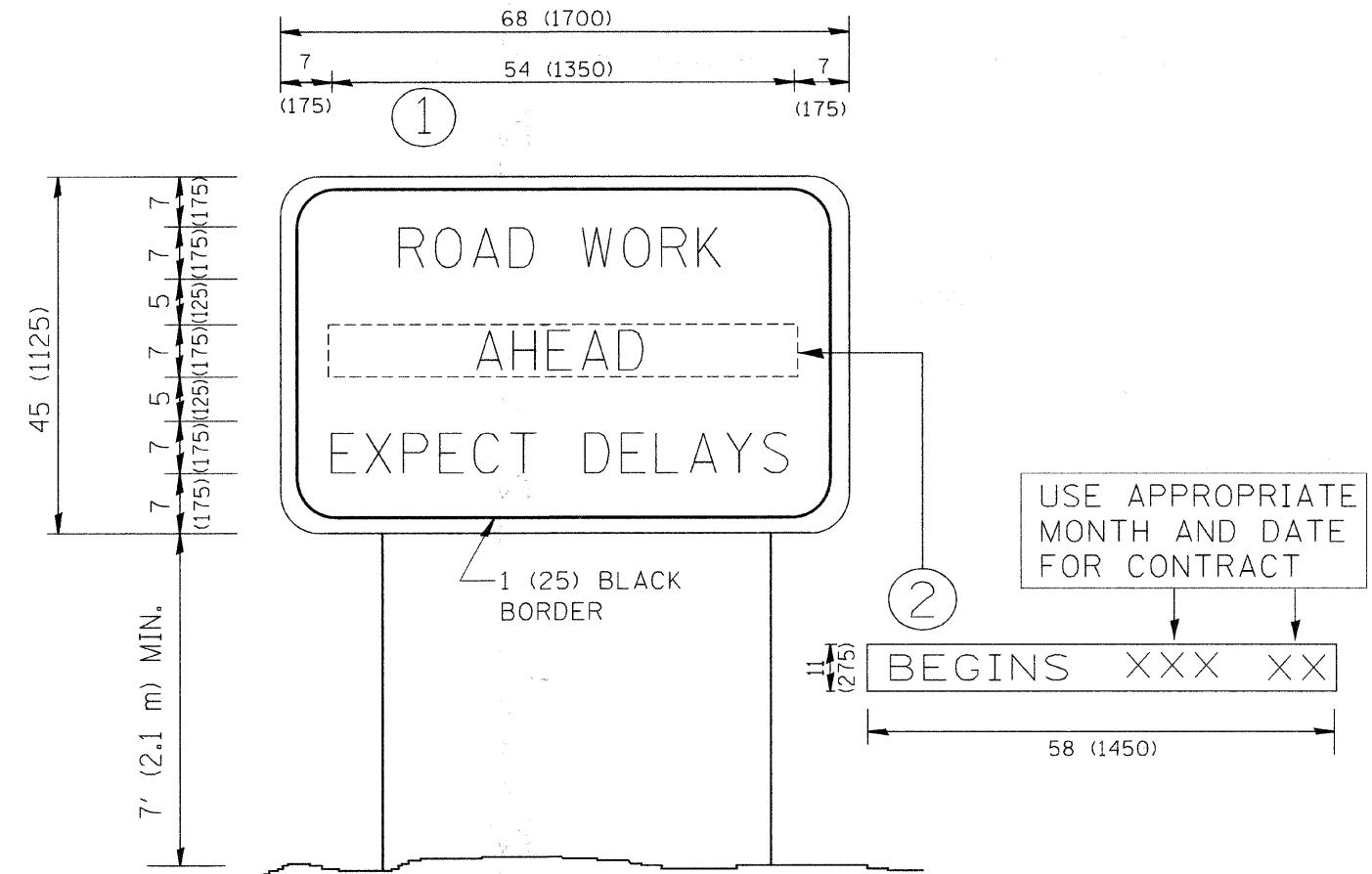
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		DRAWN -	REVISED -A. HOUSEH 10-09-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -A. HOUSEH 10-17-96
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0026	02-00269-00-BR	MCHENRY	153	124
TC-13				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

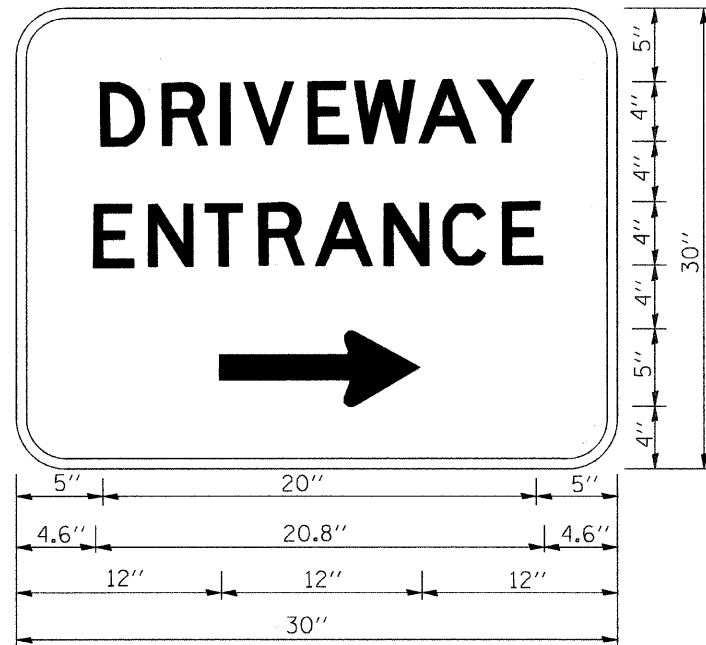


NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = w:\distcd\22x34\to22.dgn	USER NAME = geglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,000 ' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		0026	02-00269-00-BR	MCHENRY	153	125			
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		TC-22			CONTRACT NO. 63212				
		DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT		

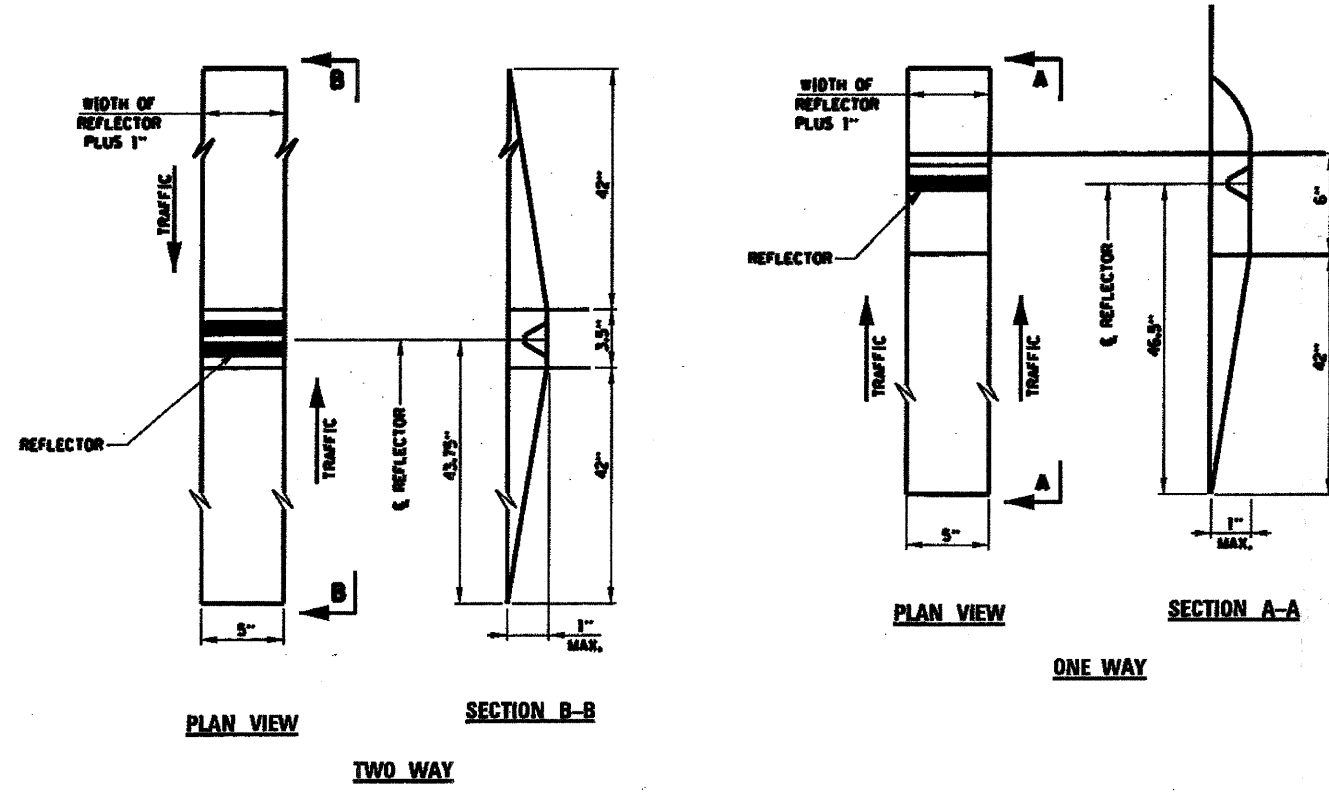


3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
 PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN)
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME = w:\diststd\22x34\te26.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		0026	02-00269-00-BR	MCHENRY	153	126				
		CHECKED -	REVISED -		TC-26				CONTRACT NO. 63212				
		DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	



RECESSED REFLECTIVE MARKERS

INSTALLATION NOTES:

1. SAWCUT IN DIMENSIONS SHOWN.
2. SAWCUT AREAS TO BE DRY AND FREE OF MATERIAL THAT ADVERSELY AFFECTS THE ADHESIVE BAND.
3. INSTALL THE REFLECTOR WITH AN APPROVED TWO-COMPONENT EPOXY ADHESIVE. EPOXY SHOULD NOT OBSCURE OR BLOCK THE LENS.
4. INSTALL TOP OF REFLECTOR 1/2 TO 3/4 INCH BELOW THE PAVEMENT SURFACE.
5. REFLECTOR SHALL BE 3M SERIES 290.

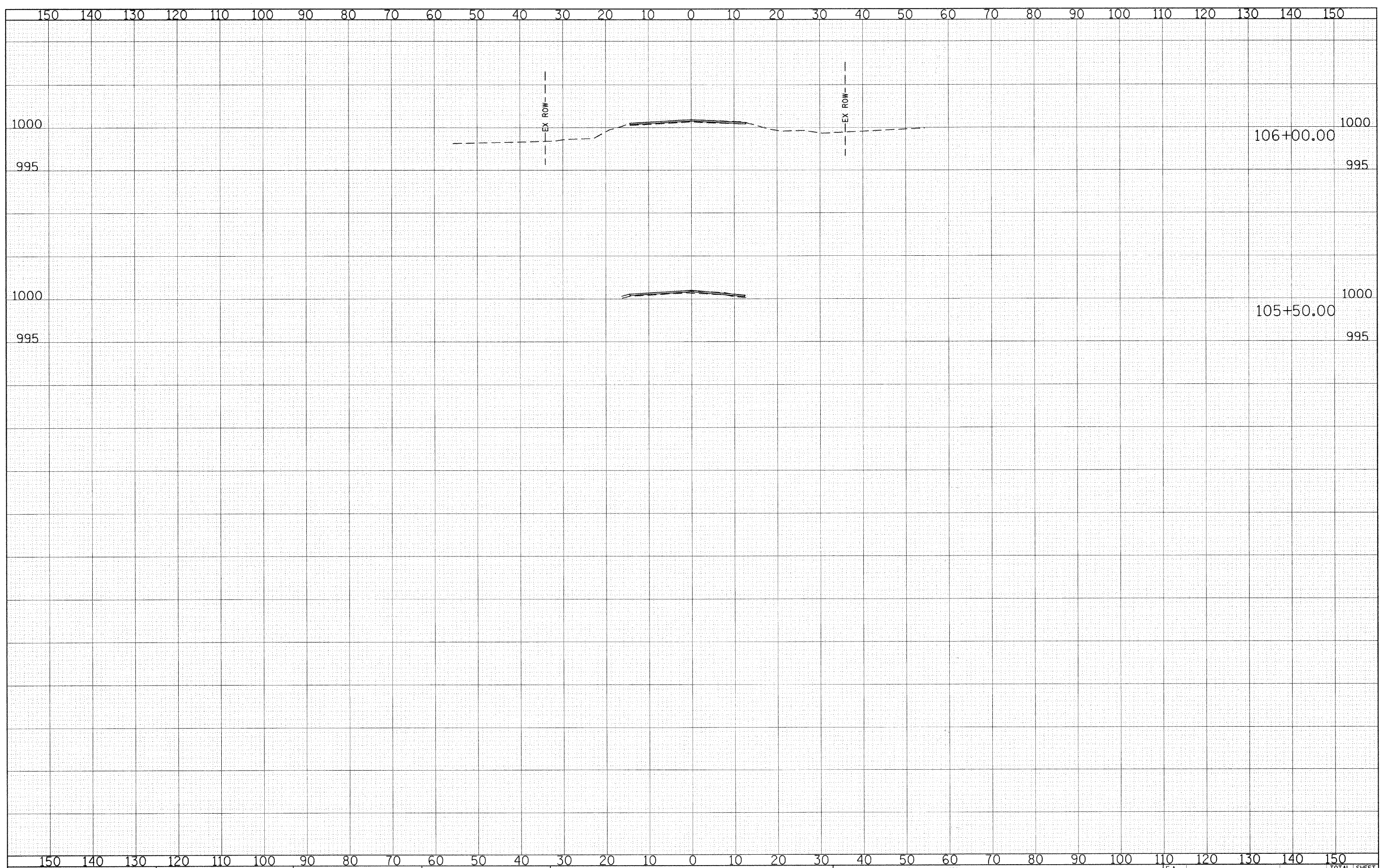
GENERAL NOTES:

1. INSTALLATION SHALL CONFORM TO IDOT HIGHWAY STANDARD 781001-02 (OR LATEST) FOR MARKER PLACEMENT.
2. IDOT STANDARD 781001-02 SHALL BE MODIFIED TO REFLECT IN RECESSED PAVEMENT MARKERS INSTEAD OF RAISED PAVEMENT MARKERS.

FILE NAME #FILE#	USER NAME #USER#	DESIGNED -	REVISED -	McHENRY COUNTY DIVISION OF TRANSPORTATION	RECESSED PAVEMENT MARKER DETAIL		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE #SCALE#	DRAWN -	REVISED -				0026	02-00269-00-BR	MCHENRY	153	127		
	PLOT DATE #DATE#	CHECKED -	REVISED -				CONTRACT NO. 63212						
							SCALE:		SHEET NO. OF SHEETS STA. TO STA.			FED. ROAD DIST. NO. ILLINOIS/FED. AID PROJECT	

FINAL SURVEY	SUPERVISED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

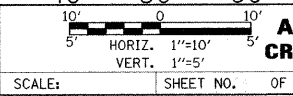
ORIGINAL SURVEY	SUPERVISED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



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	DRAWN - CEC	REVISED -
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PLOT DATE = 5/31/2009	DATE - 05/29/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

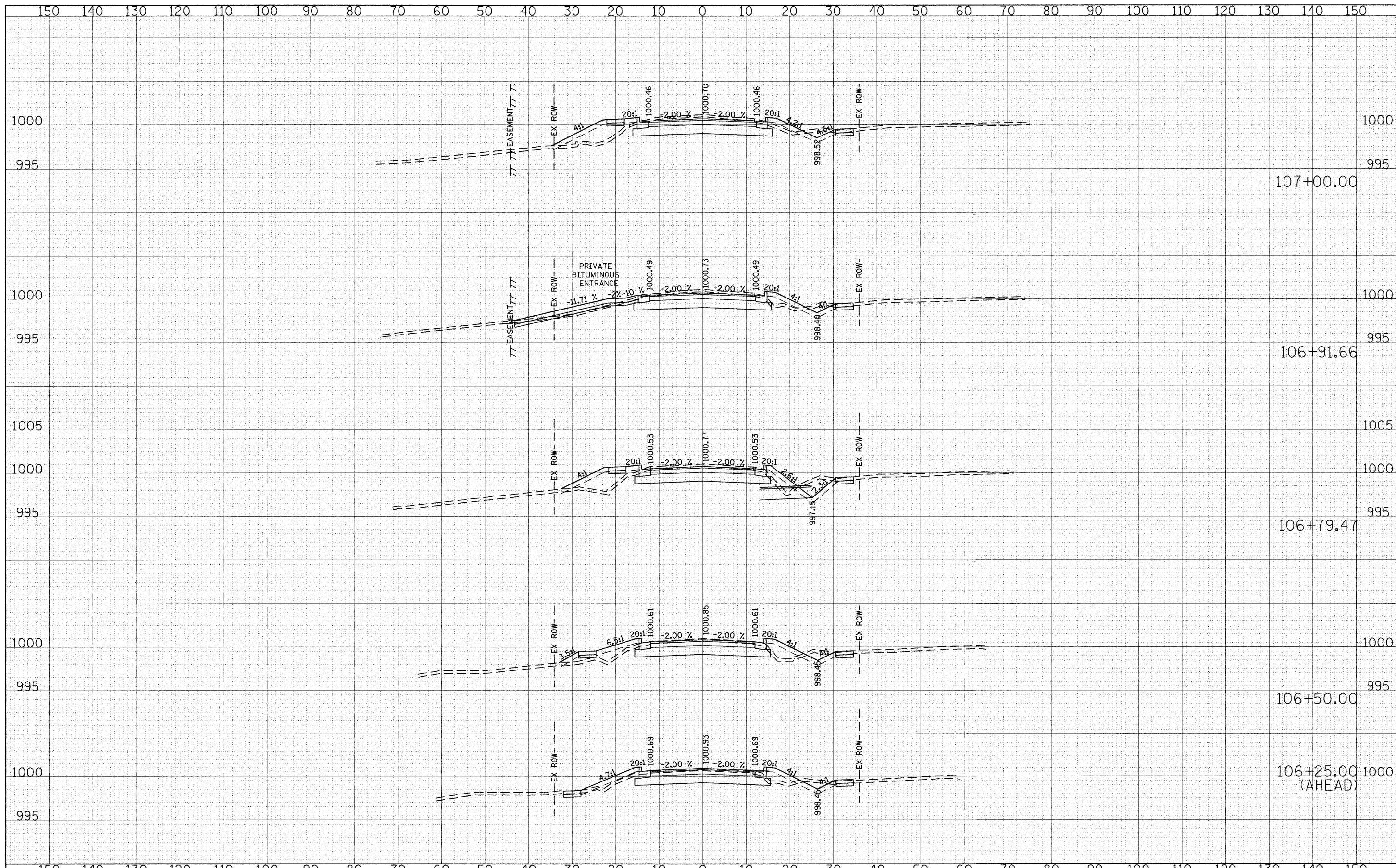


**ALDEN ROAD
CROSS SECTIONS**

F.A. RTE. 0026	SECTION 02-00269-00-BR	COUNTY MCHENRY	TOTAL SHEETS 153	SHEET NO. 130
CONTRACT NO. 63212			ILLINOIS FED. AID PROJECT	

FINAL	SURVEYED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

ORIGINAL	SURVEYED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	



FILE NAME = g:\CH04\0003\Road\Sheets\ks.sht
 USER NAME = CEComm

DESIGNED - CEC
 DRAWN - CEC
 CHECKED - DWB
 DATE - 09/28/2009

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

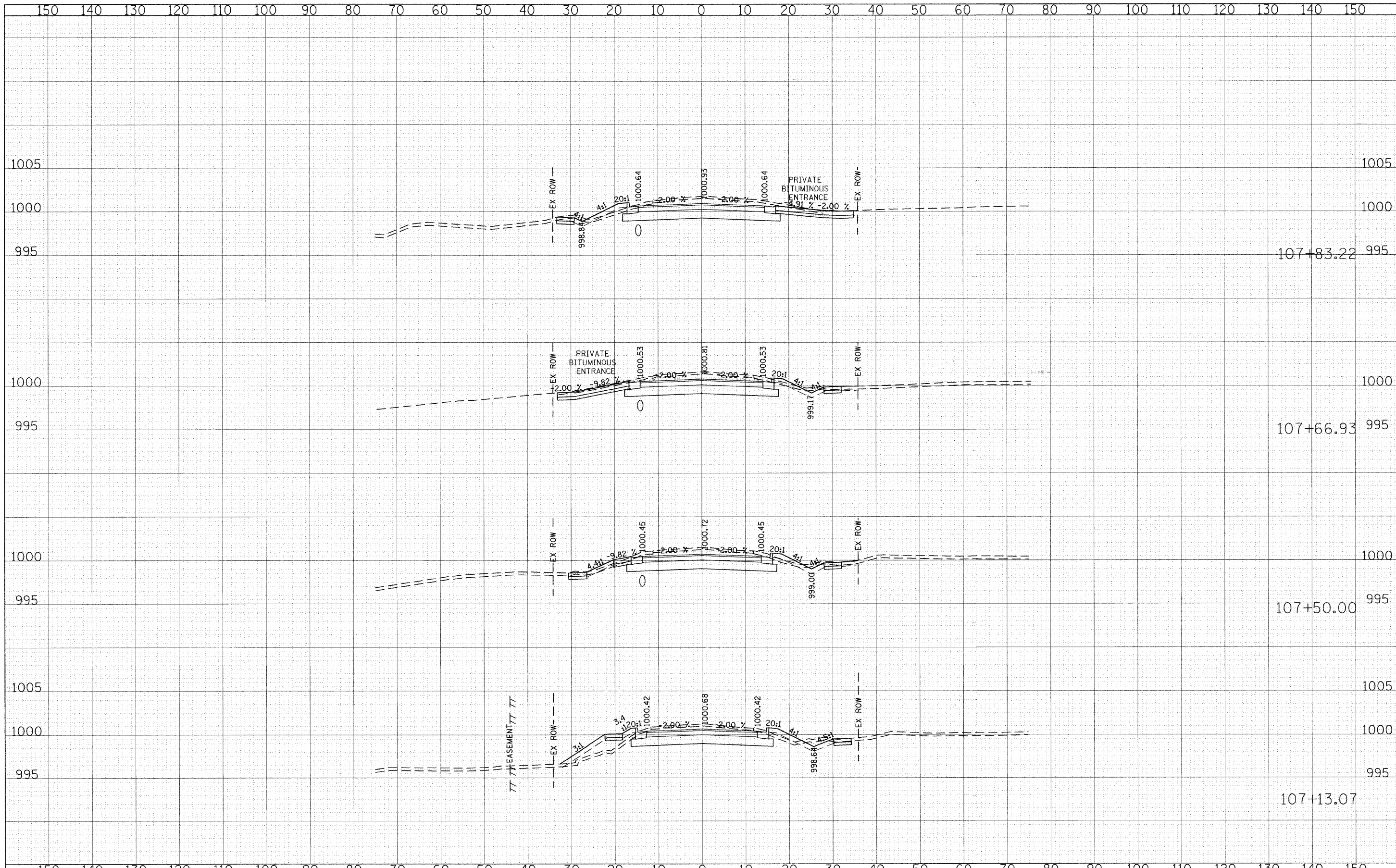
SCALE: 1"=10'
 1"=5'
 ALDEN ROAD
 CROSS SECTIONS

SHEET NO. 1 OF 23 SHEETS
 STA. 106+00.00 TO STA. 107+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0026	02-00269-00-BR	MCHENRY	153	131
CONTRACT NO.			63212	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



FILE NAME = g:\ch24\0003\road\Sheets\rs.sht
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DESIGNED - CEC
 DRAWN - CEC
 CHECKED - DWB
 DATE - 05/29/2009

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

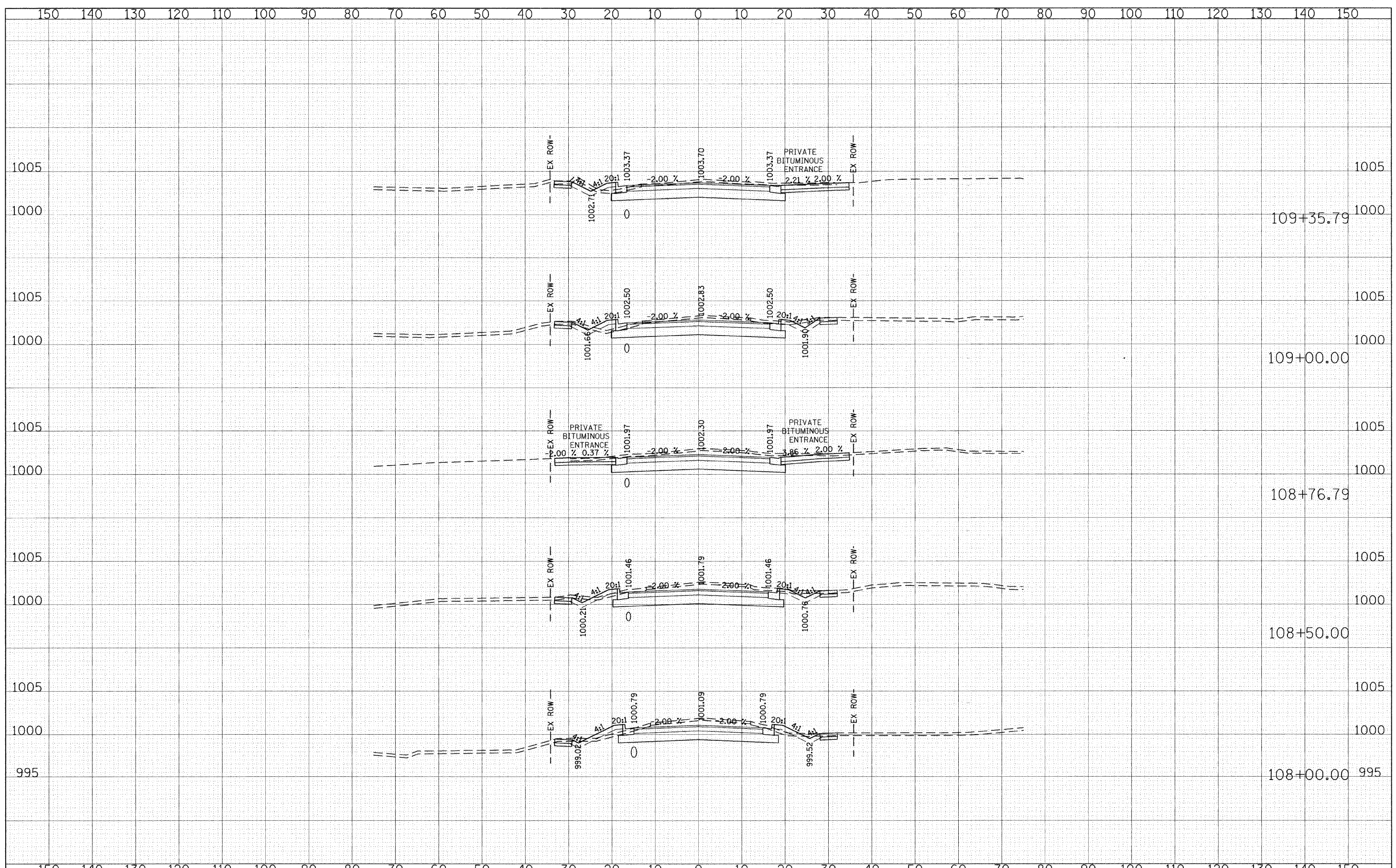
ALDEN ROAD
 CROSS SECTIONS

SCALE: 1"=10'
 1"=5'
 SHEET NO. 2 OF 23 SHEETS
 STA. 107+13.07 TO STA. 107+83.22

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0026	02-00269-00-BR	MCHENRY	153	132
CONTRACT NO.			63212	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



FILE NAME = g:\CH04\2003\Road\Sheets\sa.sht
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = 8/25/2009

USER NAME = CEC	DESIGNED - CEC	REVISED -
	DRAWN - CEC	REVISED -
	CHECKED - DWB	REVISED -
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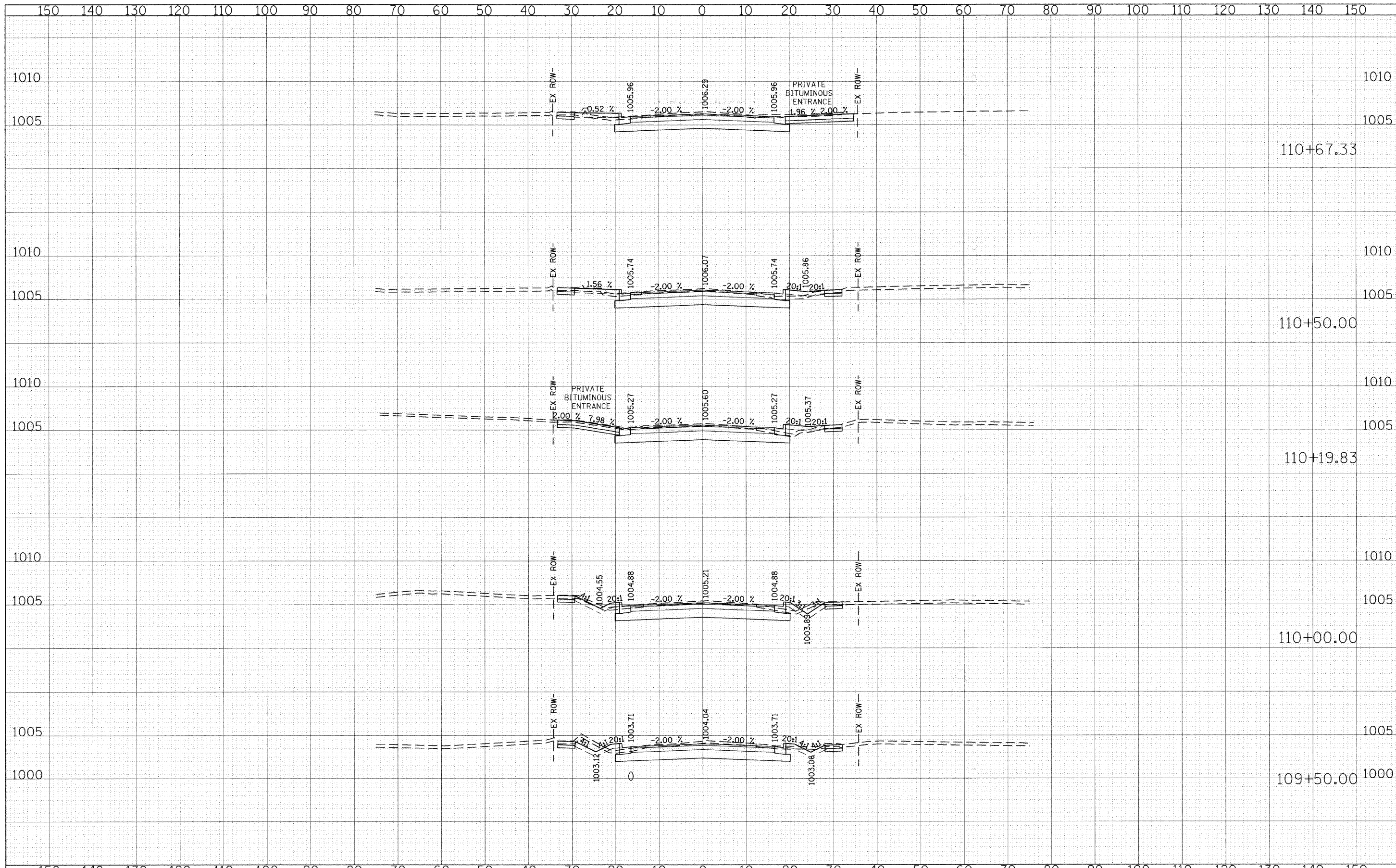
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALDEN ROAD
CROSS SECTIONS
 SCALE: SHEET NO. 3 OF 23 SHEETS STA. 108+00.00 TO STA. 109+35.79

F.A. RTE. 0026	SECTION 02-00269-00-BR	COUNTY MCHENRY	TOTAL SHEETS 153	SHEET NO. 133
CONTRACT NO. 63212			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



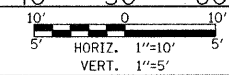
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 DATE - 05/29/2009

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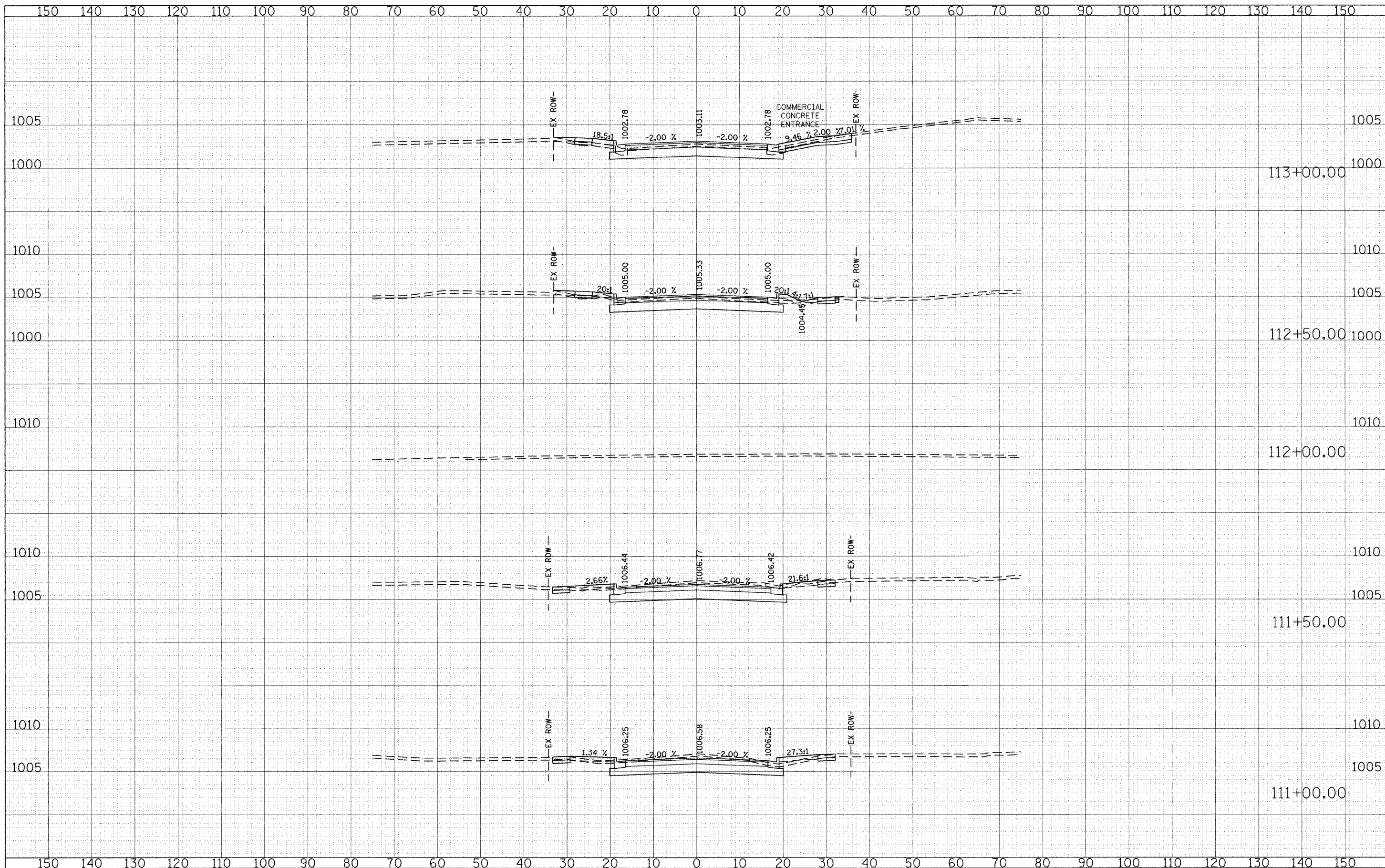
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**ALDEN ROAD
 CROSS SECTIONS**

SCALE: SHEET NO. 4 OF 23 SHEETS STA. 109+50.00 TO STA. 110+67.33

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0026	02-00269-00-BR	MCHENRY	153	134
CONTRACT NO.			63212	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

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 PLOT DATE = 9/28/2009

DESIGNED - CEC
 DRAWN - CEC
 CHECKED - DWB
 DATE - 09/28/2009

REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALDEN ROAD
 CROSS SECTIONS**

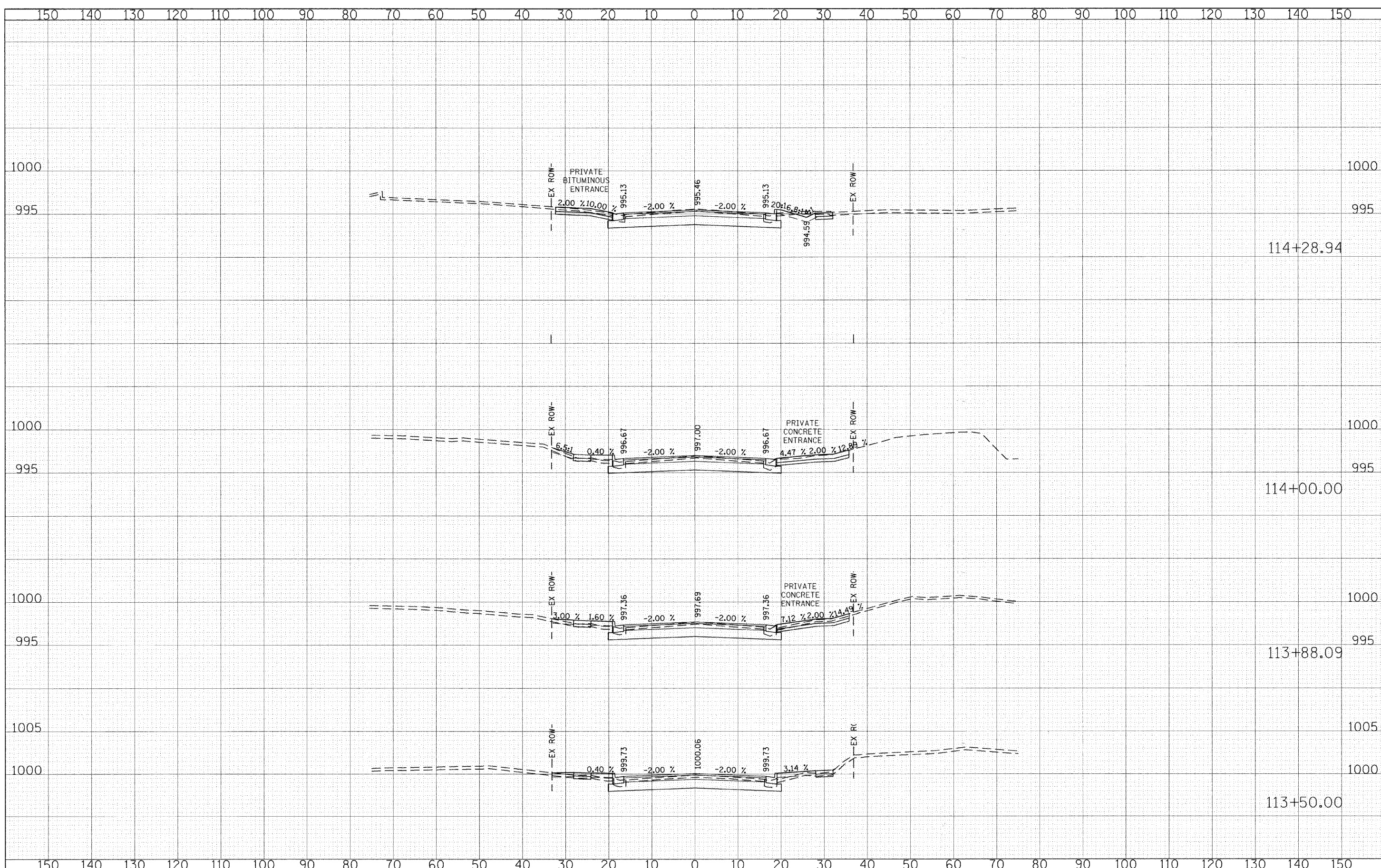
SCALE: 1" = 10' HORIZ. 1" = 5' VERT.

SHEET NO. 5 OF 23 SHEETS STA. 111+00.00 TO STA. 113+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0026	02-00269-00-BR	MCHENRY	153	135
CONTRACT NO.			63212	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



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DESIGNED - CEC
 DRAWN - CEC
 CHECKED - DWB
 DATE - 05/29/2009

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DESIGNED - CEC
 DRAWN - CEC
 CHECKED - DWB
 DATE - 05/29/2009

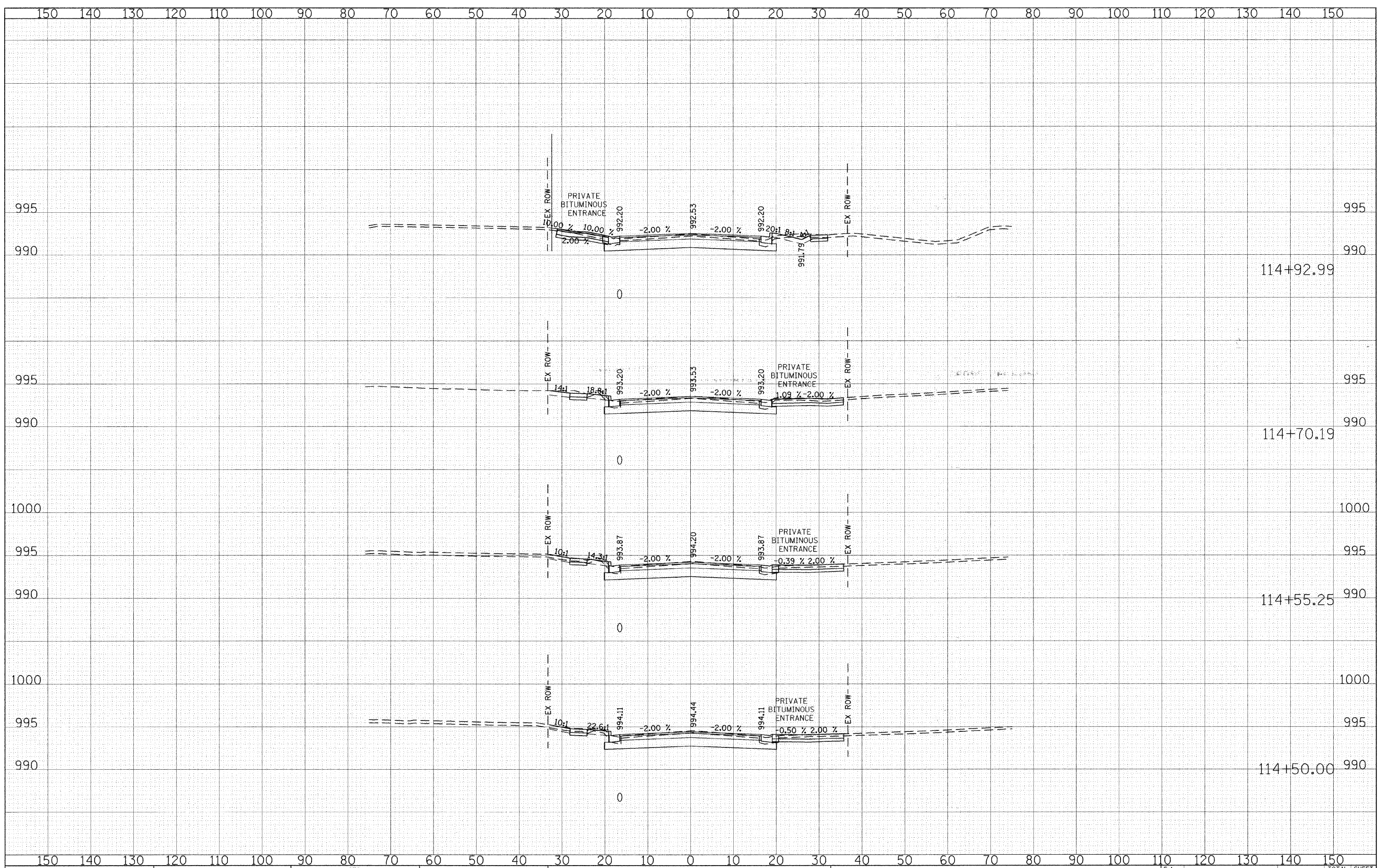
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10'
 1"=5'
 ALDEN ROAD
 CROSS SECTIONS
 SHEET NO. 6 OF 23 SHEETS
 STA. 113+50.00 TO STA. 114+28.94

F.A. RTE. 0026	SECTION 02-00269-00-BR	COUNTY MCHENRY	TOTAL SHEETS 153	SHEET NO. 136
CONTRACT NO. 63212			ILLINOIS FED. AID PROJECT	

BY	DATE

BY	DATE

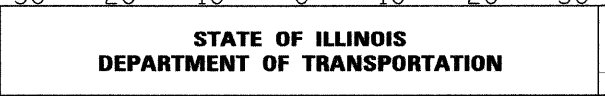


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 DATE - 05/29/2009

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

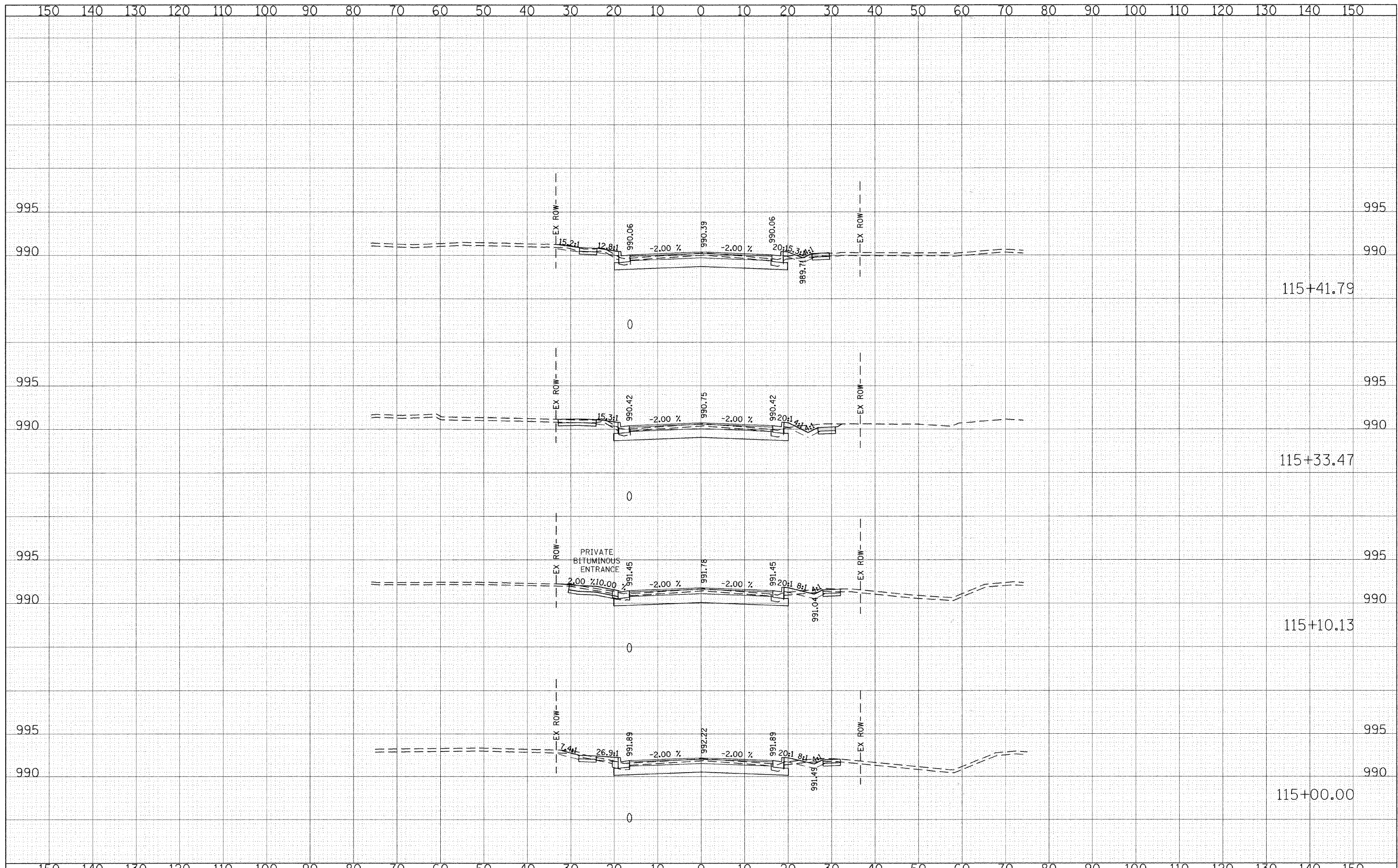


**ALDEN ROAD
 CROSS SECTIONS**
 SCALE: SHEET NO. 7 OF 23 SHEETS STA. 114+50.00 TO STA. 114+92.99

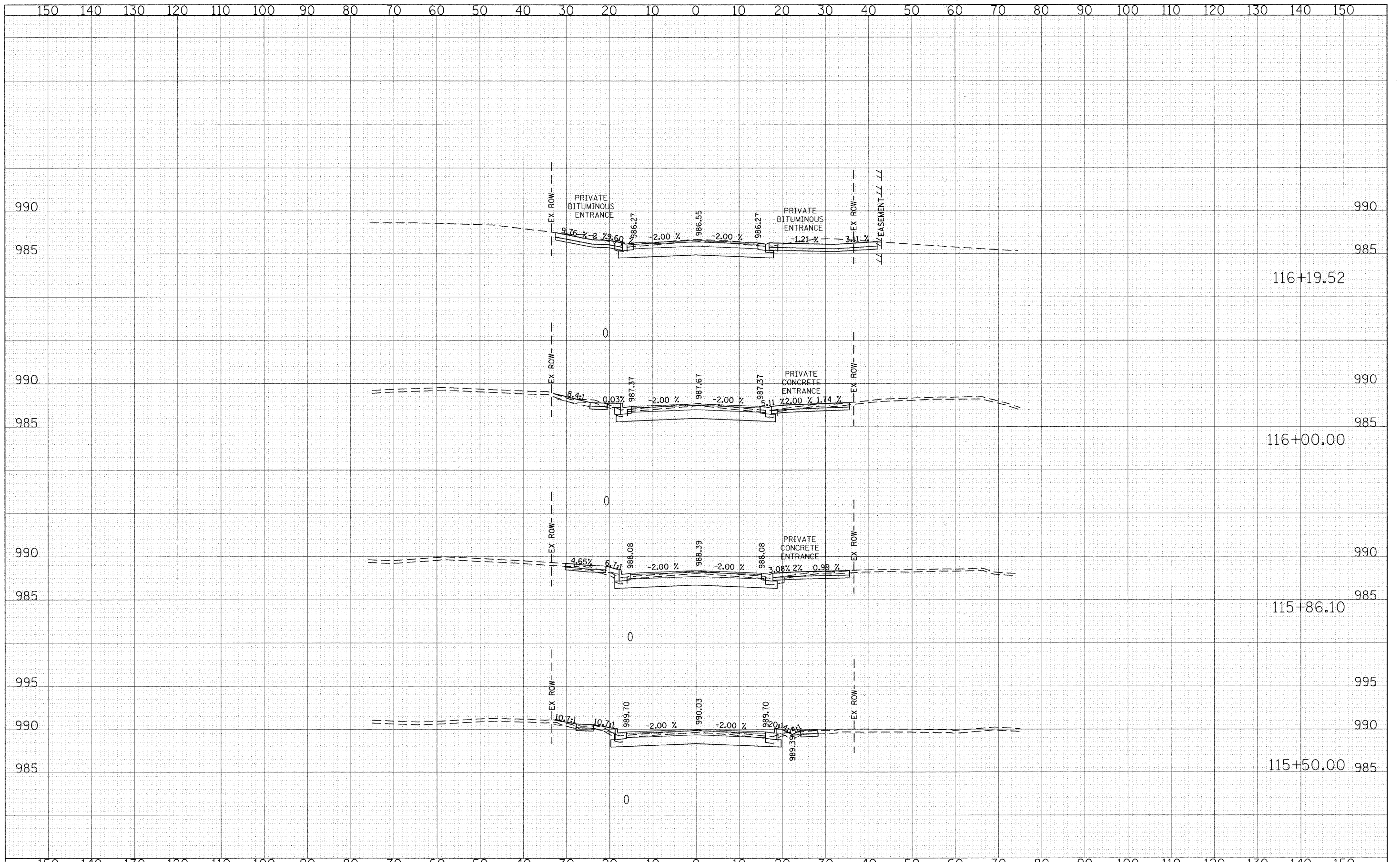
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0026	02-00269-00-BR	MCHENRY	153	137
CONTRACT NO.			63212	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



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PLOT SCALE = 10.0000' / IN.	CHECKED - DWB	REVISED -	CONTRACT NO. 63212						
FLOT DATE = 5/31/2009	DATE - 05/29/2009	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						
SHEET NO. 8 OF 23 SHEETS					STA. 115+00.00 TO STA. 115+41.79				

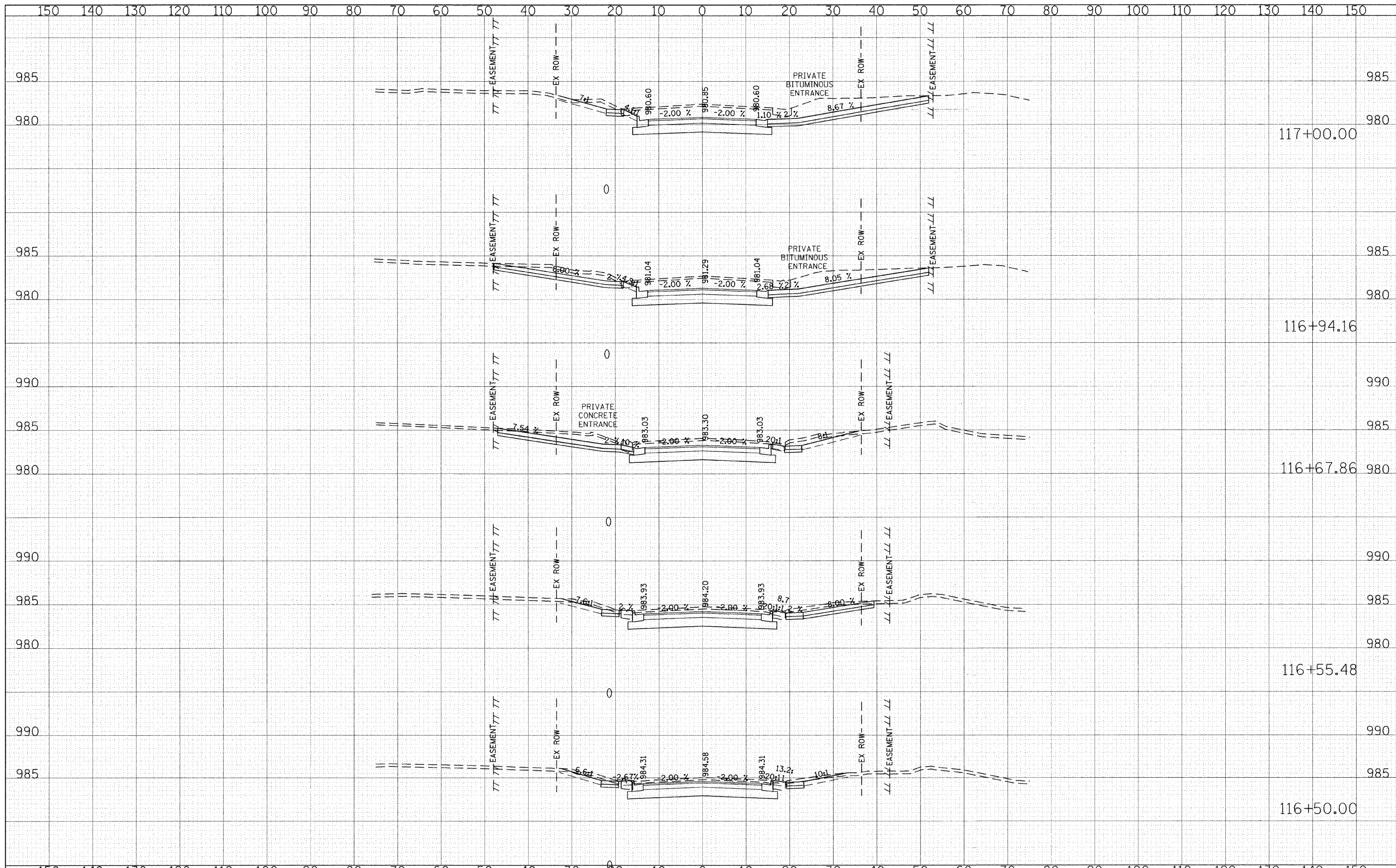


BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE		
	AREAS CHECKED		

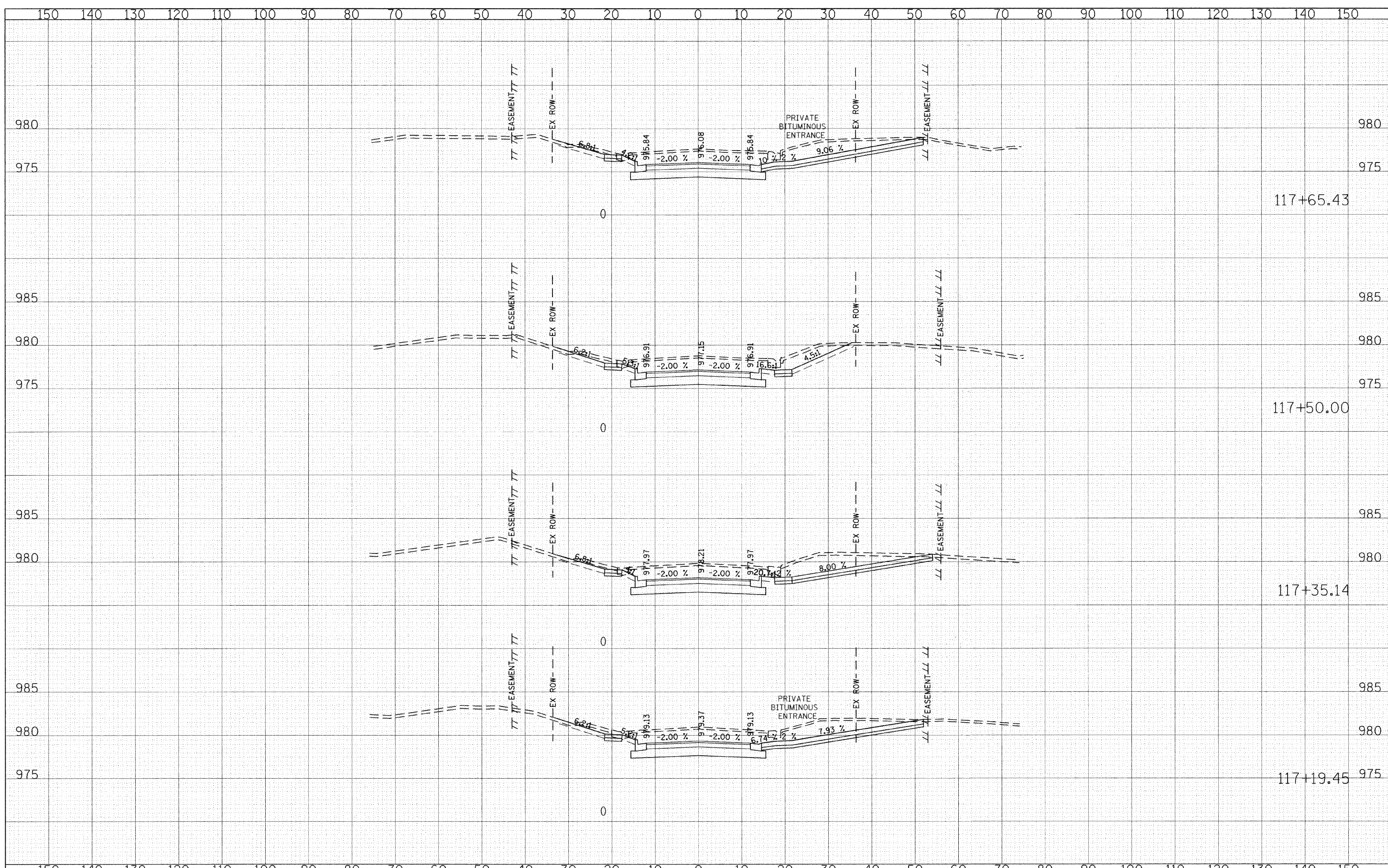
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE		
	AREAS CHECKED		



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PLOT SCALE = 10,0000' / IN.	CHECKED - DWB	DATE - 05/29/2009	REVISED -		CONTRACT NO. 63212		ILLINOIS FED. AID PROJECT		
PLOT DATE = 5/31/2009					SHEET NO. 10 OF 23 SHEETS		STA. 116+50.00 TO STA. 117+00.00		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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DRAWN - CEC	REVISED -
CHECKED - DWB	REVISED -
DATE - 05/29/2009	REVISED -

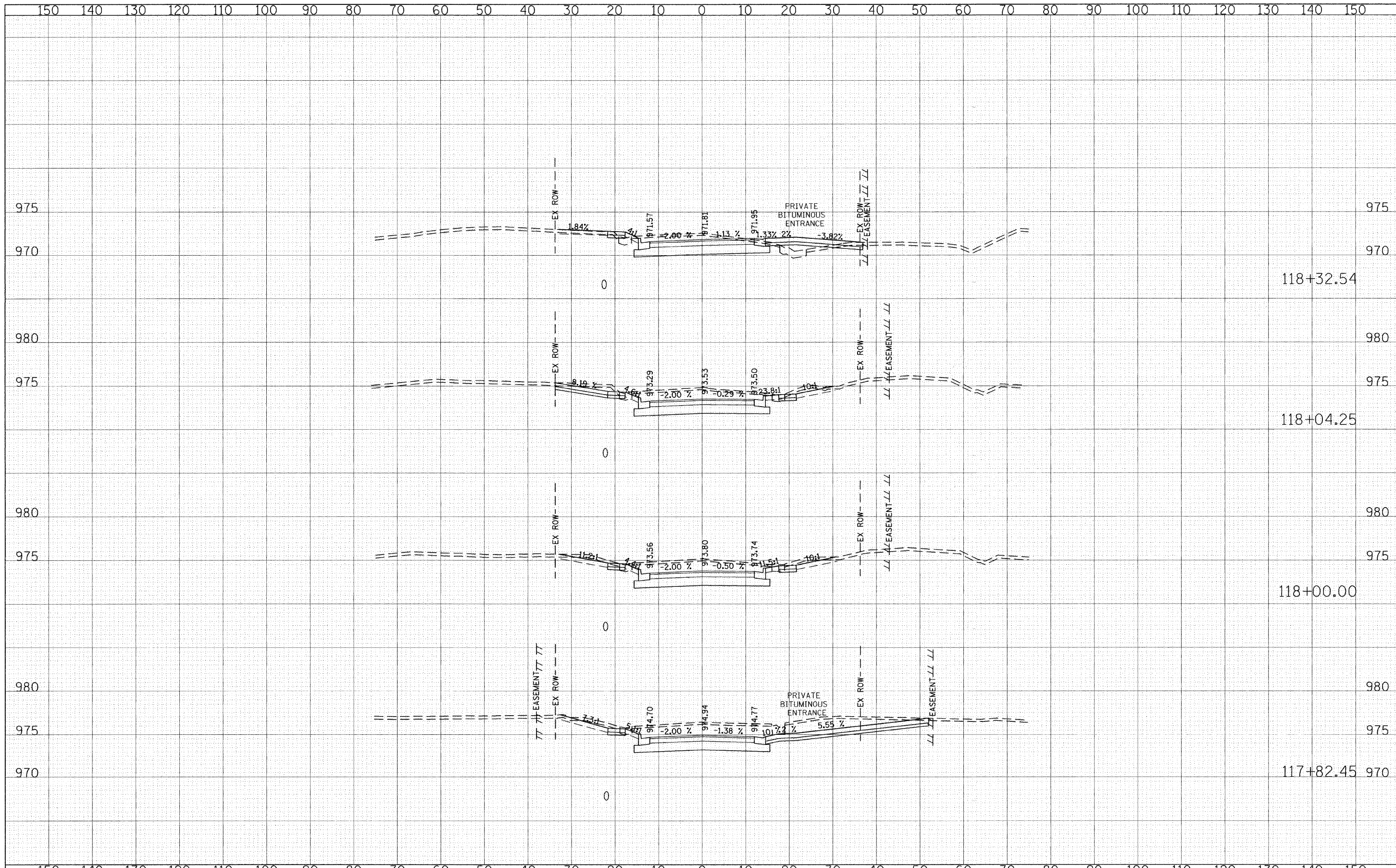
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10'
 1"=5'
ALDEN ROAD
CROSS SECTIONS
 SHEET NO. 11 OF 23 SHEETS STA. 117+19.45 TO STA. 117+65.43

F.A. RTE. 0026	SECTION 02-00269-00-BR	COUNTY MCHENRY	TOTAL SHEETS 153	SHEET NO. 141
CONTRACT NO. 63212			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

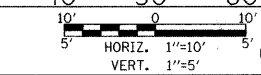


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DESIGNED - CEC
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



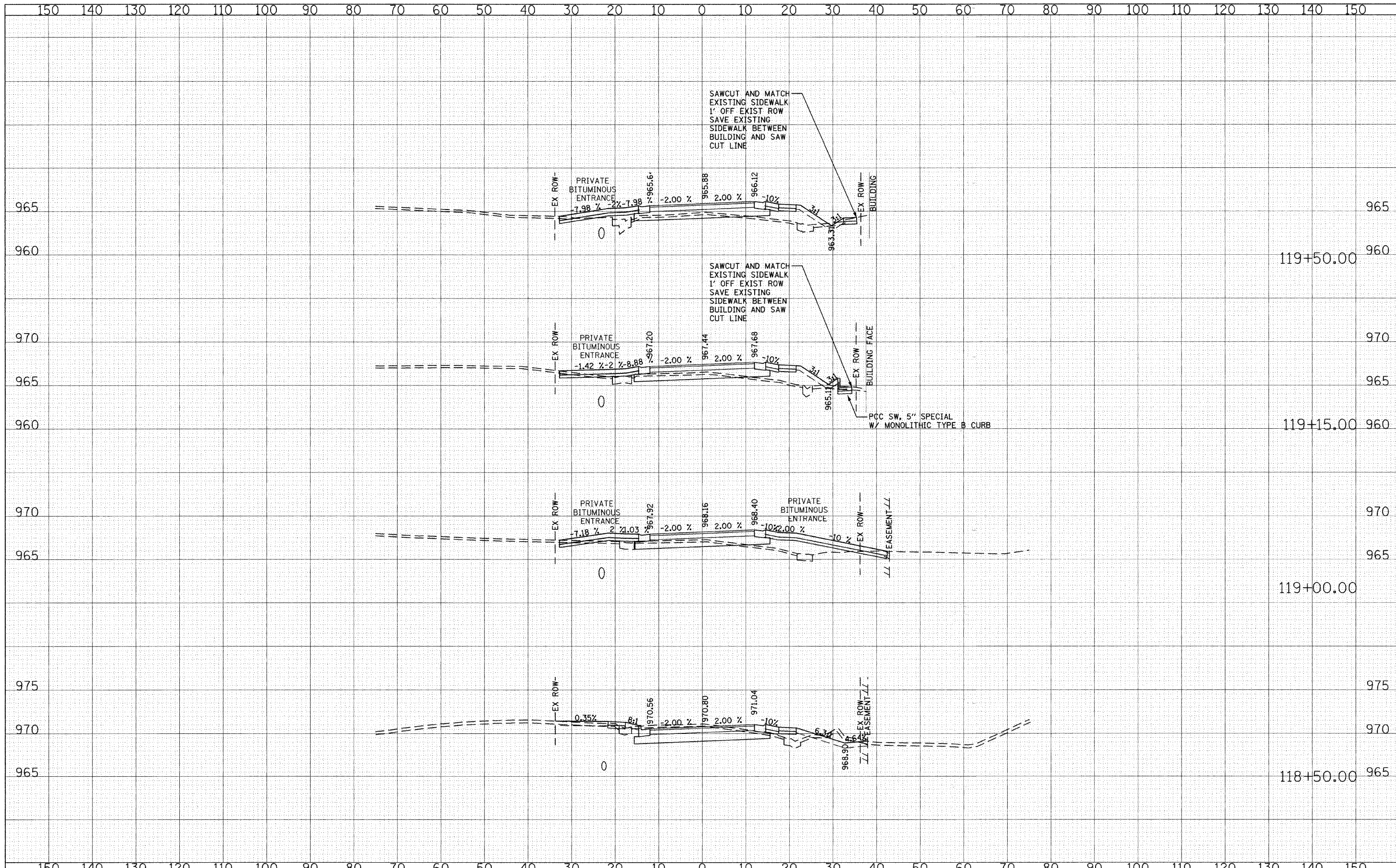
**ALDEN ROAD
 CROSS SECTIONS**

SCALE: SHEET NO. 12 OF 23 SHEETS STA. 117+82.45 TO STA. 118+32.54

F.A. RTE. 0026	SECTION 02-00269-00-BR	COUNTY MCHENRY	TOTAL SHEETS 153	SHEET NO. 142
CONTRACT NO. 63212				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS CHECKED		

ORIGINAL SURVEY NO.	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS CHECKED		



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 PLOT DATE = 9/28/2009

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DRAWN - CEC	REVISED -
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DATE - 09/28/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALDEN ROAD
CROSS SECTIONS**

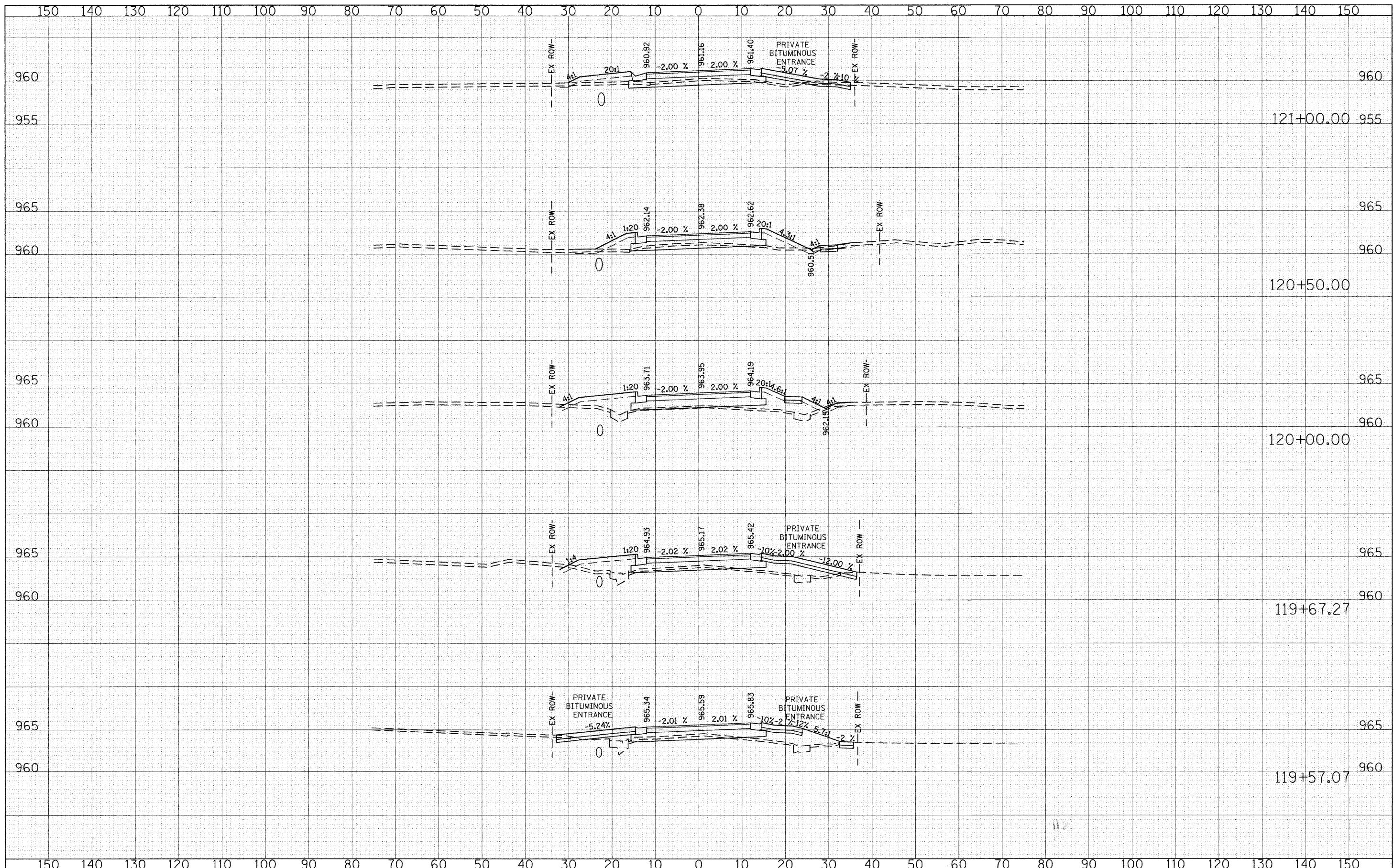
SCALE: 1"=10' HORIZ. 1"=5' VERT.
 SHEET NO. 13 OF 23 SHEETS | STA. 118+50.00 TO STA. 119+50.00

F.A. RTE. 0026	SECTION 02-00269-00-BR	COUNTY MCHENRY	TOTAL SHEETS 153	SHEET NO. 143
CONTRACT NO. 63212			ILLINOIS FED. AID PROJECT	

DATE	BY

DATE	BY

DATE	BY

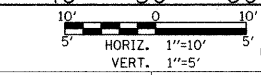


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 DATE - 09/28/2009

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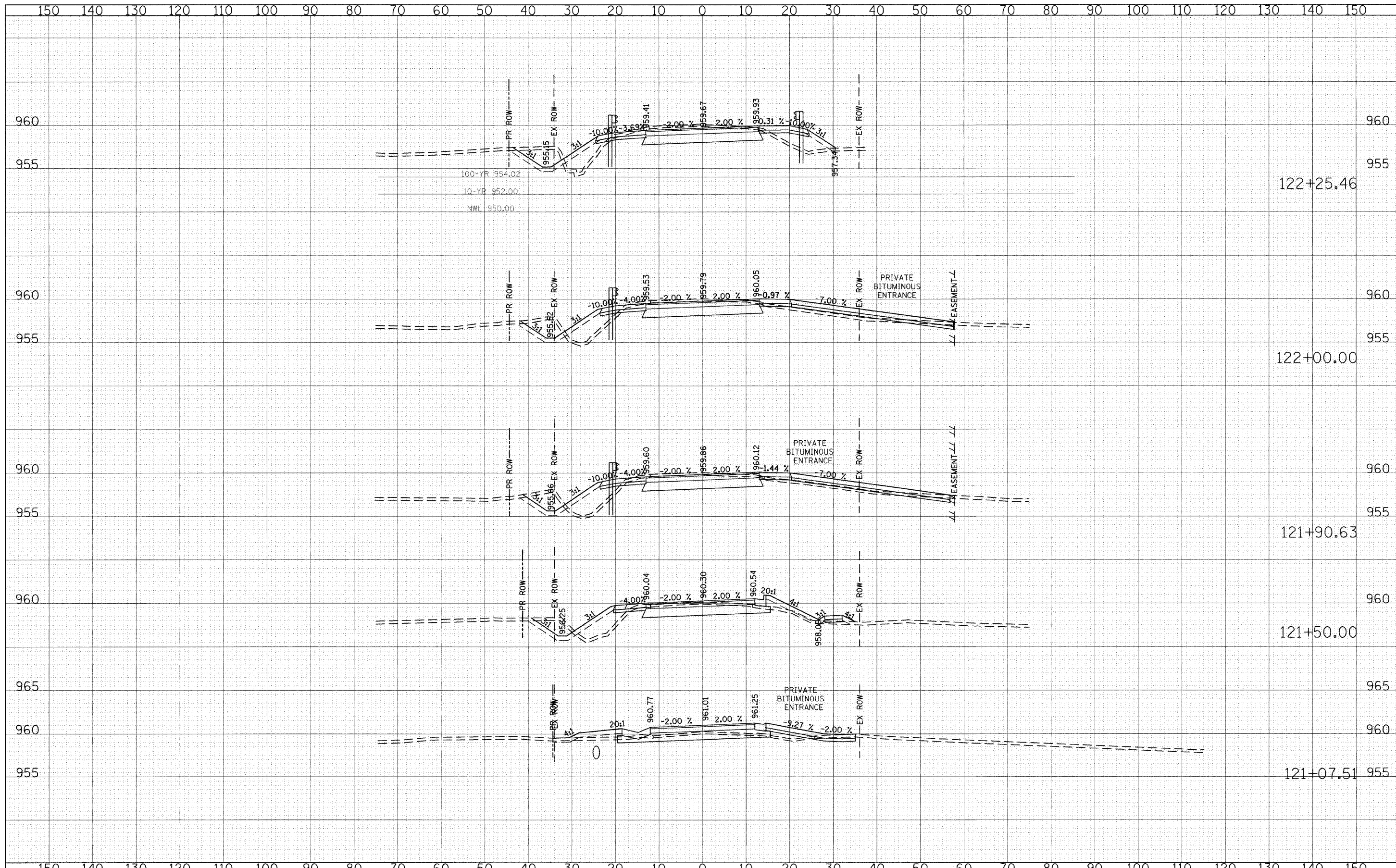
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



ALDEN ROAD
 CROSS SECTIONS

SCALE: SHEET NO. 14 OF 23 SHEETS STA. 119+57.07 TO STA. 121+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0026	02-00269-00-BR	MCHENRY	153	144
CONTRACT NO. 63212				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

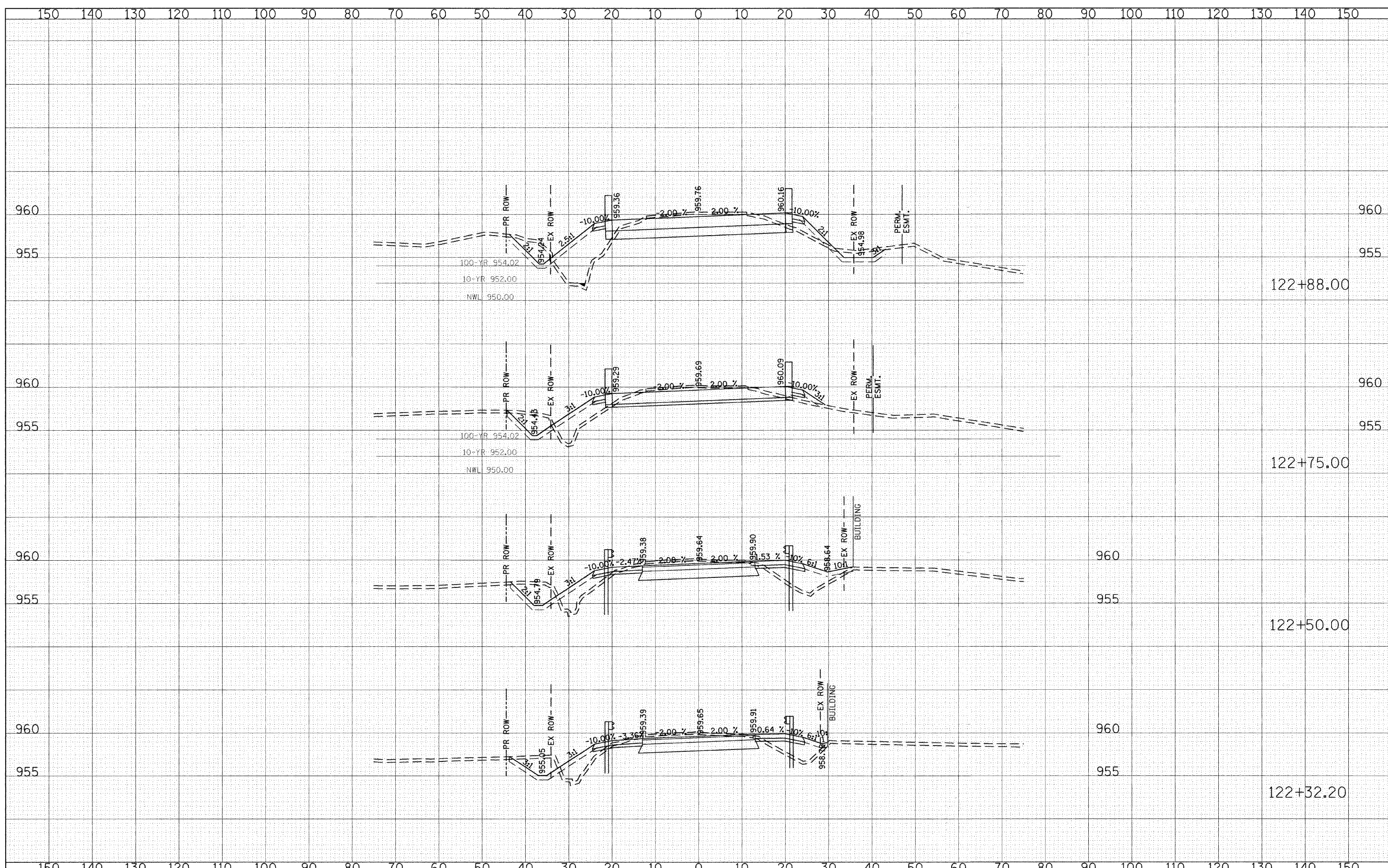


FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



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 DATE - 09/28/2009

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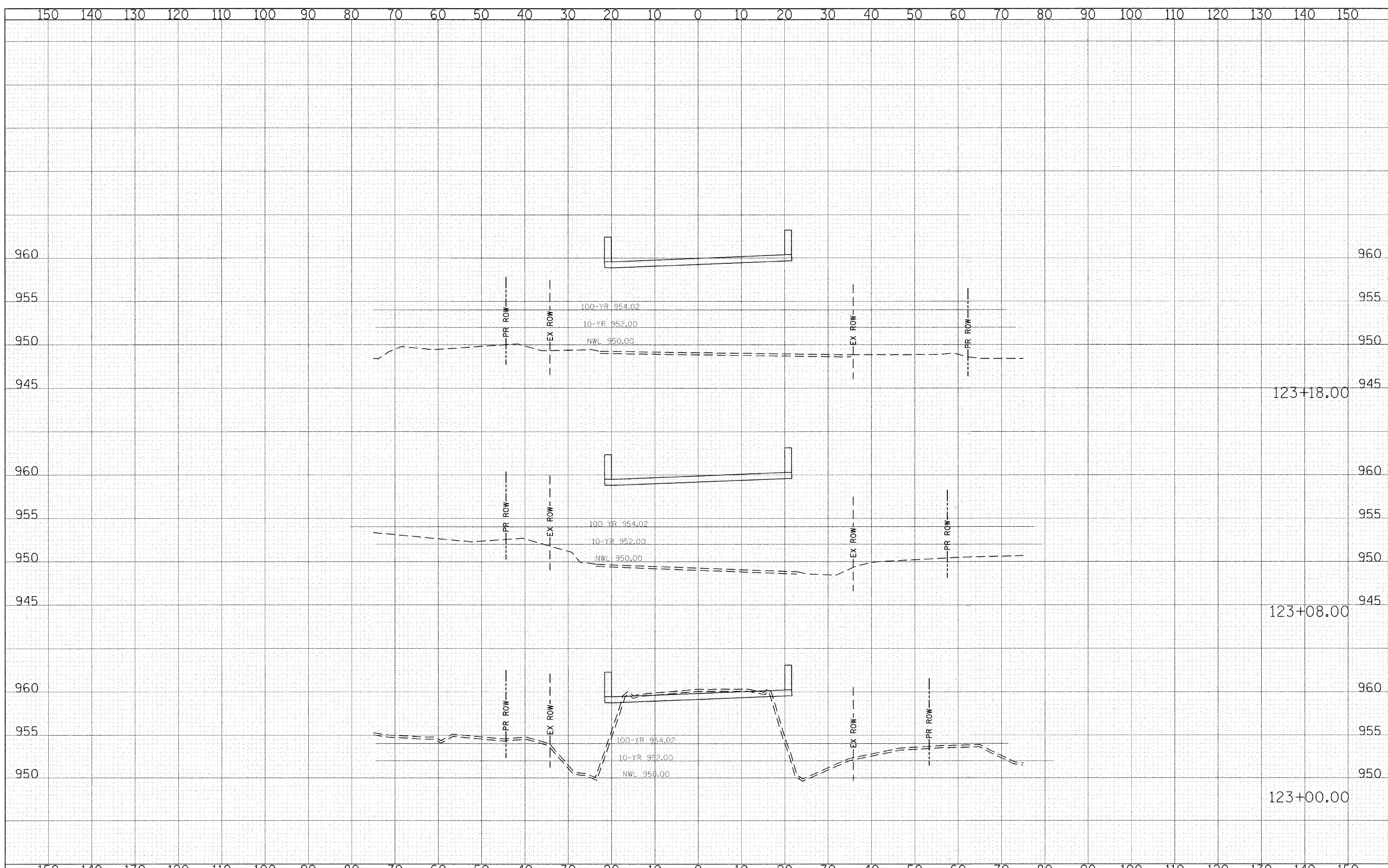
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALDEN ROAD
 CROSS SECTIONS**
 SCALE: 1" = 10' HORIZ., 1" = 5' VERT.
 SHEET NO. 16 OF 23 SHEETS STA. 122+32.20 TO STA. 122+88.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0026	02-00269-00-BR	MCHENRY	153	146
CONTRACT NO.			63212	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



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CHECKED -	DWB	REVISED -	
DATE -	05/29/2009	REVISED -	

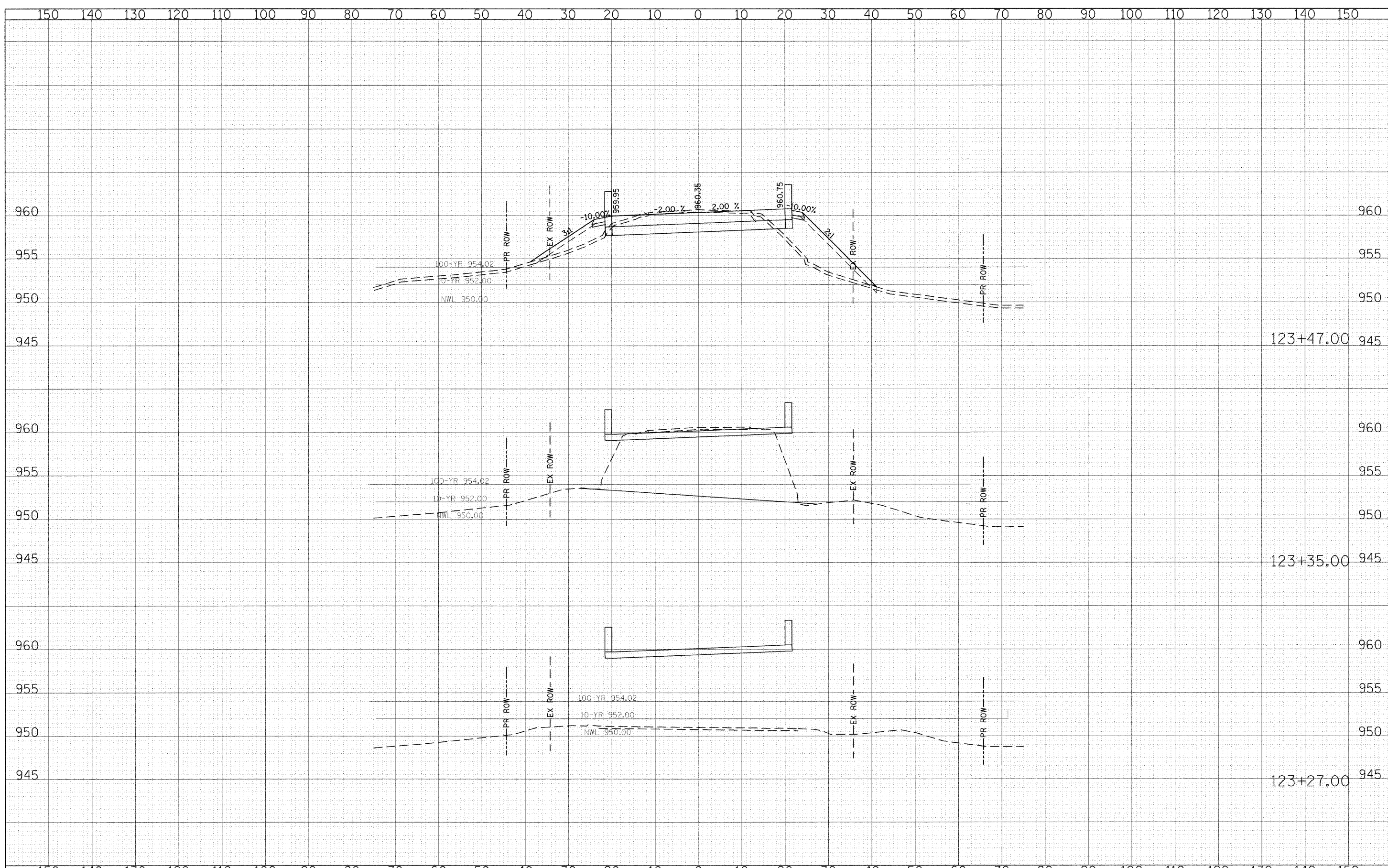
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: HORIZ. 1"=10' VERT. 1"=5'
 SHEET NO. 17 OF 23 SHEETS STA. 123+00.00 TO STA. 123+18.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0026	02-00269-00-BR	MCHENRY	153	147
CONTRACT NO.			63212	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

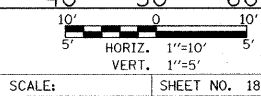
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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	AREAS CHECKED		



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DATE - 05/29/2009	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



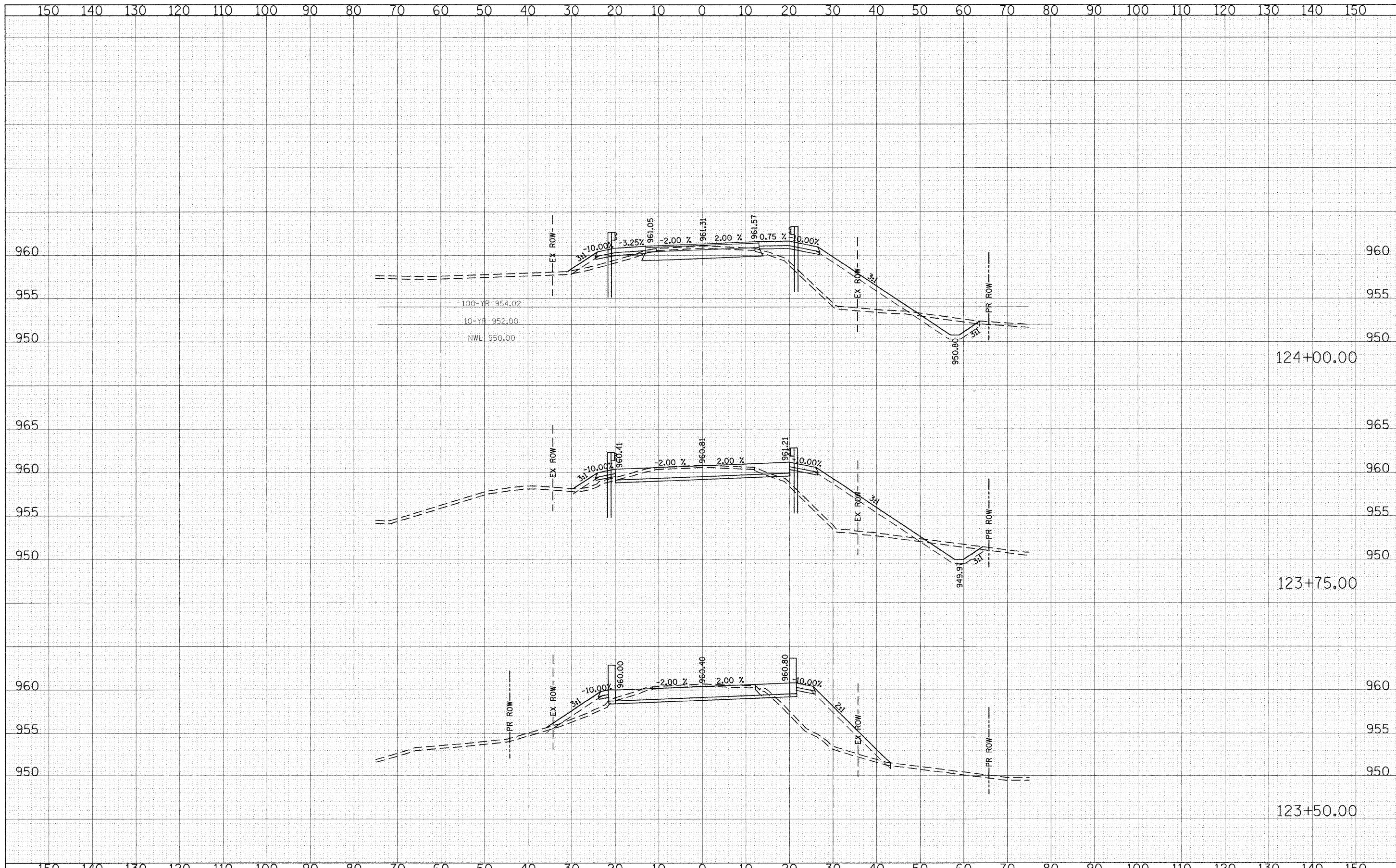
**ALDEN ROAD
 CROSS SECTIONS**

SCALE: SHEET NO. 18 OF 23 SHEETS STA. 123+27.00 TO STA. 123+47.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0026	02-00269-00-BR	MCHENRY	153	148
CONTRACT NO.				63212
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	



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 PLOT DATE = 9/28/2009

DESIGNED - CEC	REVISED -
DRAWN - CEC	REVISED -
CHECKED - DWB	REVISED -
DATE - 09/28/2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALDEN ROAD
 CROSS SECTIONS**

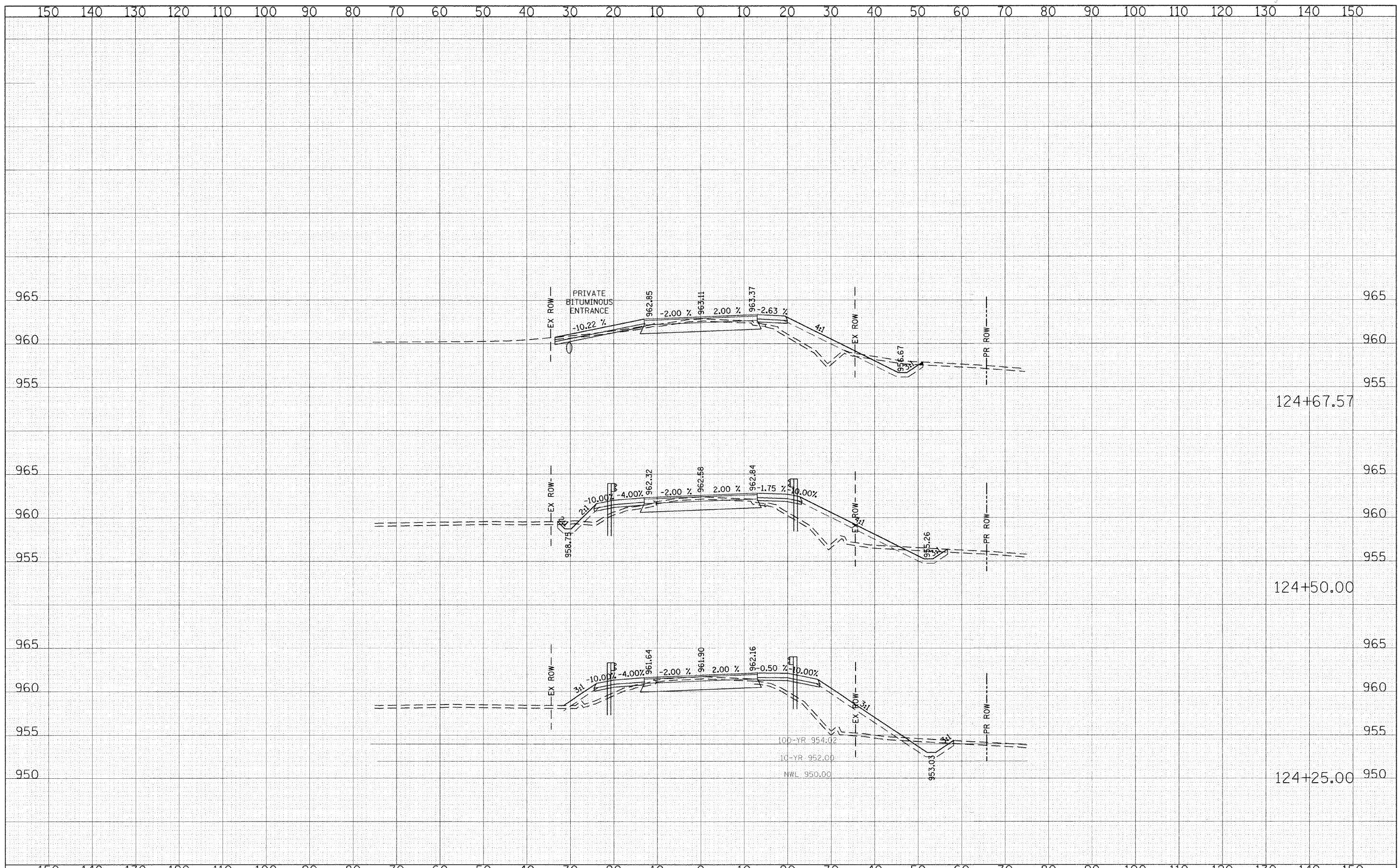
HORIZ. 1"=10'
 VERT. 1"=5'

SCALE: SHEET NO. 19 OF 23 SHEETS | STA. 123+50.00 TO STA. 124+00.00

F.A. RTE. 0026	SECTION 02-00269-00-BR	COUNTY MCHENRY	TOTAL SHEETS 153	SHEET NO. 149
CONTRACT NO. 63212			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE		
	AREAS CHECKED		



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 PLOT DATE = 5/31/2009

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DATE - 05/29/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALDEN ROAD
CROSS SECTIONS**

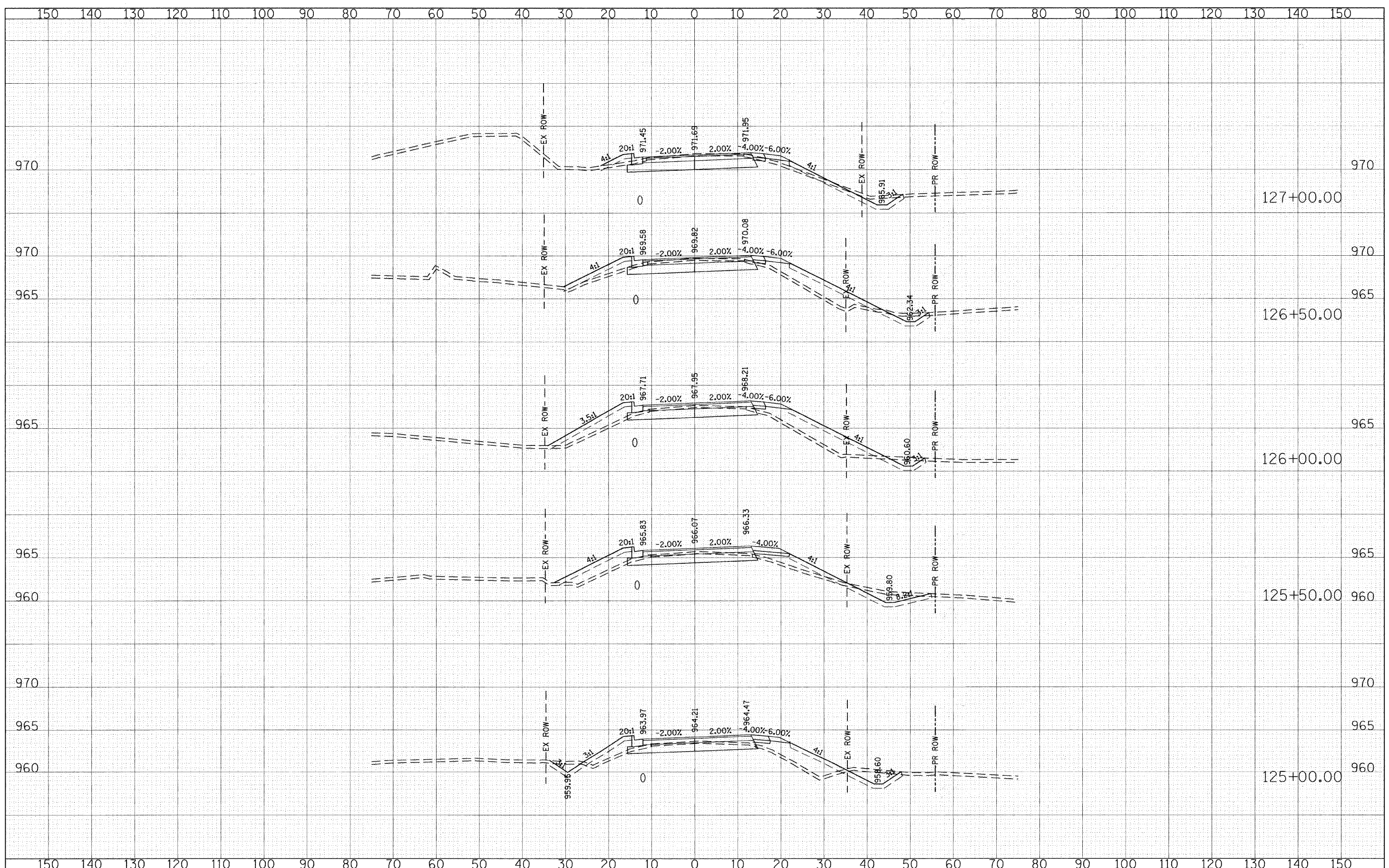
SCALE: HORIZ. 1"=10' VERT. 1"=5'

SHEET NO. 20 OF 23 SHEETS STA. 124+25.00 TO STA. 124+90.56

F.A. RTE. 0026	SECTION 02-00269-00-BR	COUNTY MCHENRY	TOTAL SHEETS 153	SHEET NO. 150
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63212	

FINAL	SURVEYED	DATE
SHEET	PLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

ORIGINAL	SURVEYED	DATE
SHEET	PLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	



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DESIGNED - CEC
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALDEN ROAD
 CROSS SECTIONS**

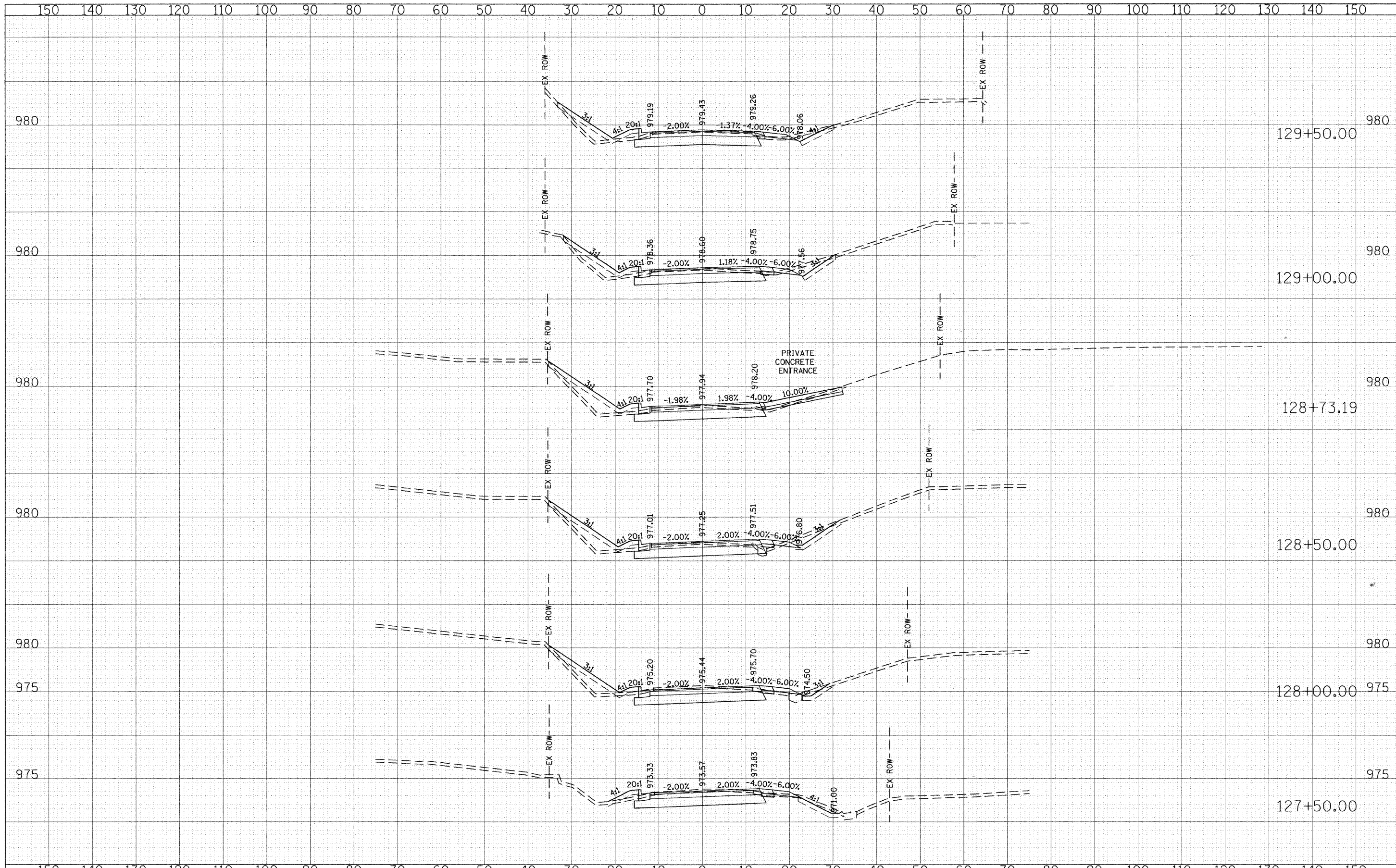
HORIZ. 1"=10'
 VERT. 1"=5'

SCALE: SHEET NO. 21 OF 23 SHEETS | STA. 125+00.00 TO STA. 127+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0026	02-00269-00-BR	MCHENRY	153	151
CONTRACT NO.			63212	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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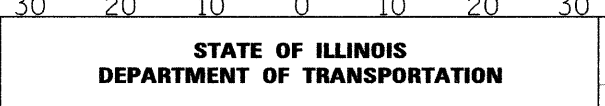


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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

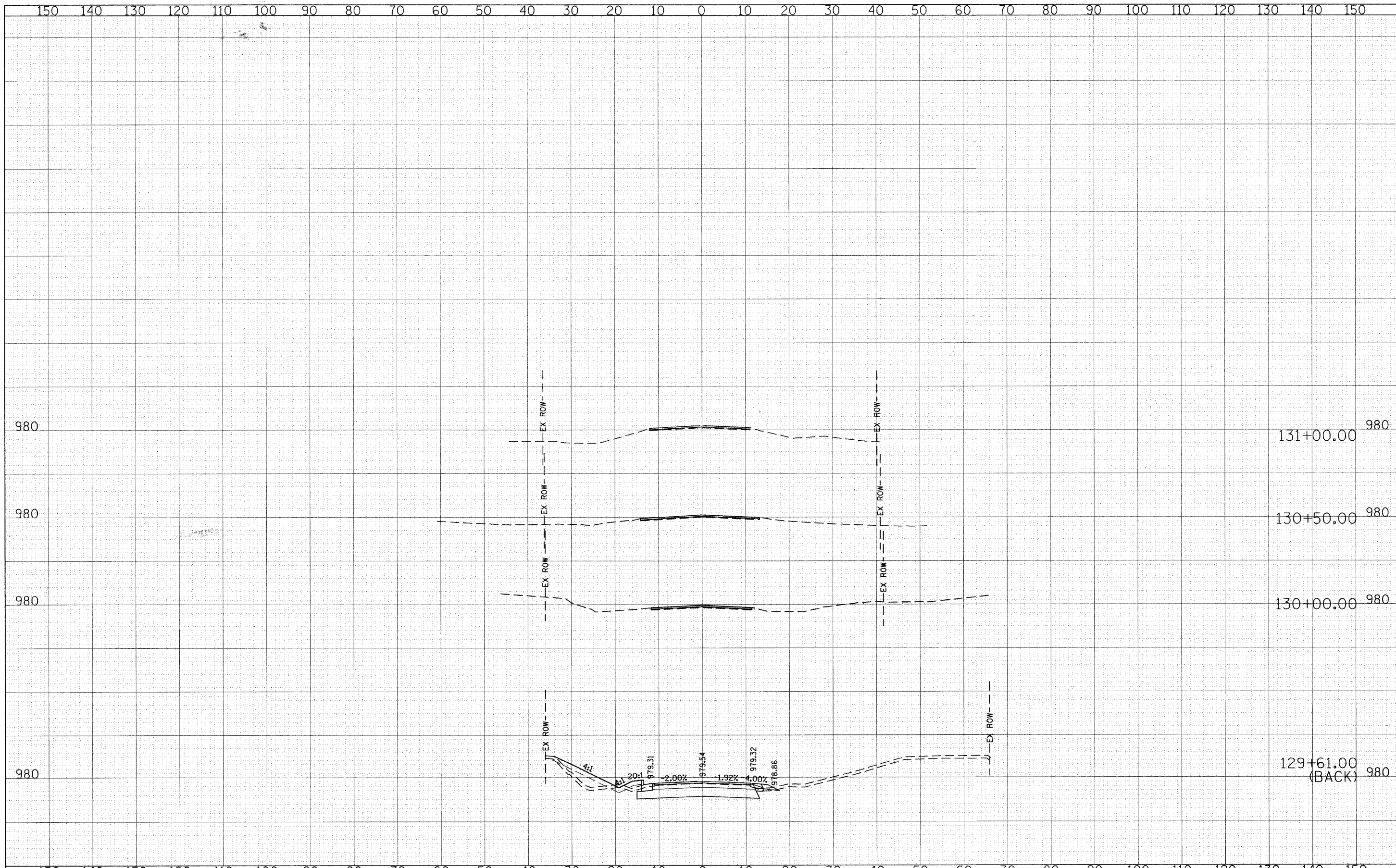


ALDEN ROAD CROSS SECTIONS
 SHEET NO. 22 OF 23 SHEETS | STA. 127+50.00 TO STA. 129+50.00

F.A. RTE. 0026	SECTION 02-00269-00-BR	COUNTY MCHENRY	TOTAL SHEETS 153	SHEET NO. 152
CONTRACT NO. 63212				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE		
	AREAS CHECKED		



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DRAWN - CEC	REVISED -
CHECKED - DWB	REVISED -
DATE - 05/29/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET NO. 23 OF 23 SHEETS STA. 130+00.00 TO STA. 131+00.00

F.A. RTE. 0026	SECTION 02-00269-00-BR	COUNTY MCHENRY	TOTAL SHEETS 153	SHEET NO. 153
CONTRACT NO. 63212			ILLINOIS FED. AID PROJECT	