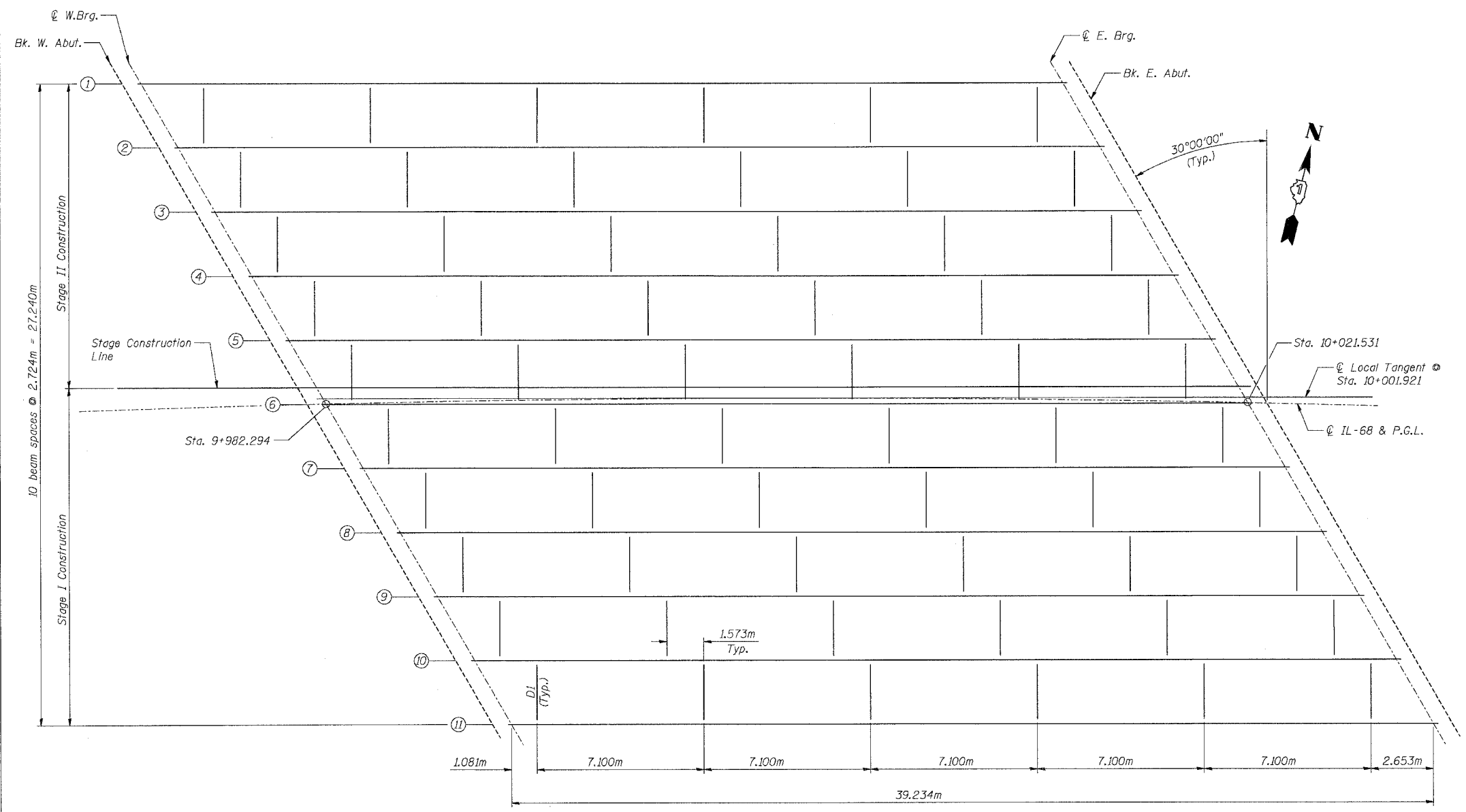


F.A.P. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343 70HB-R-1	COOK	283	201
STA. TO STA.		ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO.		CONTRACT NO. 62897	



FRAMING PLAN

MOMENT AND REACTION TABLES

INTERIOR GIRDER MOMENT TABLE		
		0.5 Span
I_s	(10^8 mm^4)	11171
$I_c (n)$	(10^8 mm^4)	30779
$I_c (3n)$	(10^8 mm^4)	20799
S_s	(10^3 mm^3)	28749
$S_c (n)$	(10^3 mm^3)	37944
$S_c (3n)$	(10^3 mm^3)	34861
Z	(10^3 mm^3)	-
DL	(kN/m)	16.60
Mdl	(kN*m)	3194
s DL	(kN/m)	7.48
MsDL	(kN*m)	1439
MLL	(kN*m)	2245
M (Imp)	(kN*m)	442
$5/3[MLL + M(\text{Imp})]$	(kN*m)	4478
Ma	(kN*m)	11844
Mu	(kN*m)	13603
$f_s \text{ DL non-comp}$	(MPa)	111
$f_s \text{ DL (comp)}$	(MPa)	41
$f_s 5/3[MLL + M(\text{Imp})]$	(MPa)	118
$f_s \text{ (Overload)}$	(MPa)	270
$f_s \text{ (total)}$	(MPa)	
VR	(kN)	291

INTERIOR GIRDER REACTION TABLE		
		Abut.
RDL	(kN)	472
RLL	(kN)	243
Imp.	(kN)	48
R (Total)	(kN)	763

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).
 $I_c(n)$ and $S_c(n)$ are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.
 $I_c(3n)$ and $S_c(3n)$ are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)
 VR is the maximum Live Load + Impact shear range in span.
 Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.
 M_a (Applied Moment) = $1.3[M_{DL} + M_{sDL} + 5/3(M_{LL} + M(\text{Imp}))]$.
 The Plastic Moment capacity (M_u) is computed according to AASHTO 10.48.1 and 10.50.1.1.
 f_s (Overload) is the sum of the stresses due to $M_{DL} + M_{sDL} + 5/3(M_{LL} + M(\text{Imp}))$.
 f_s (Total) (Non-compact section) is the sum of the stresses due to $1.3[M_{DL} + M_{sDL} + 5/3(M_{LL} + M(\text{Imp}))]$.

NOTE:
 For Girder elevation, diaphragm details, and top of girder elevations see Sht. S-17 of S-27.

REVISIONS	
NAME	DATE

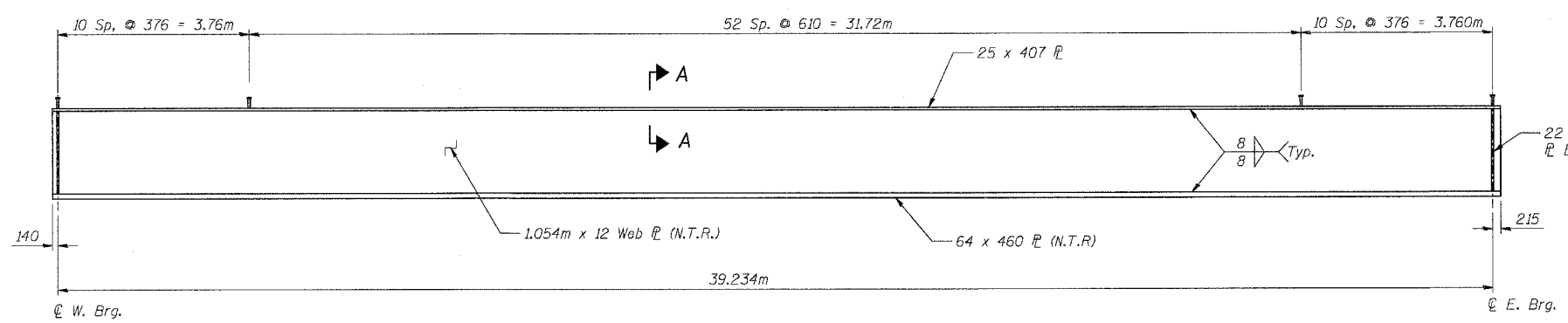
STV Incorporated
 Engineers/Architects/Planners/Construction Managers
 200 W. Madison Street, Suite 1650
 Chicago, IL 60606-5913
 312.553.0855, FAX 312.553.0661

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 OVER US ROUTE 14
 F.A.P. ROUTE 343 SECTION 70HB-R-1
 COOK COUNTY STATION 10+001.778
 STRUCTURE NO. 016-2861

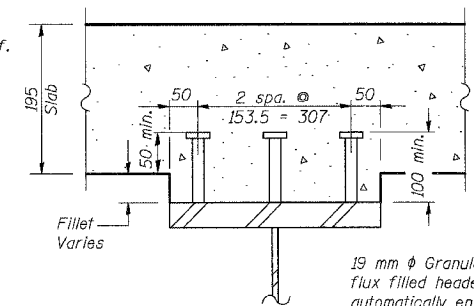
FRAMING PLAN & MOMENT TABLE

DESIGNED: BTO DRAWN: BTO
 CHECKED: JAN CHECKED: JAN
 DATE: 10/06

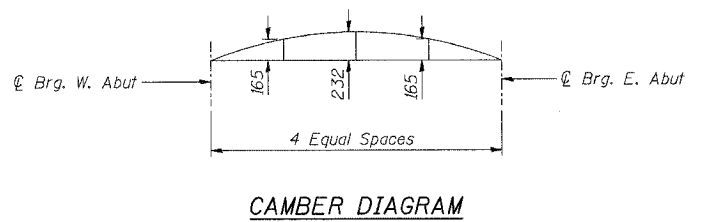
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	202
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62897				



GIRDER ELEVATION



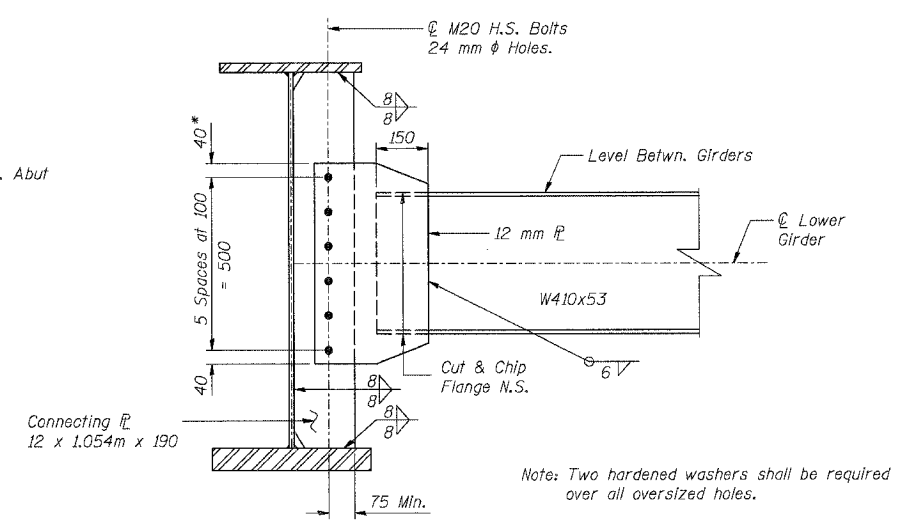
SECTION A-A



CAMBER DIAGRAM

GIRDER	WEST ABUT. BRG.	EAST ABUT. BRG.
1	269.590	269.074
2	269.511	268.982
3	269.430	268.888
4	269.349	268.794
5	269.267	268.700
6	269.186	268.605
7	269.103	268.509
8	269.020	268.412
9	268.937	268.315
10	268.853	268.216
11	268.768	268.118

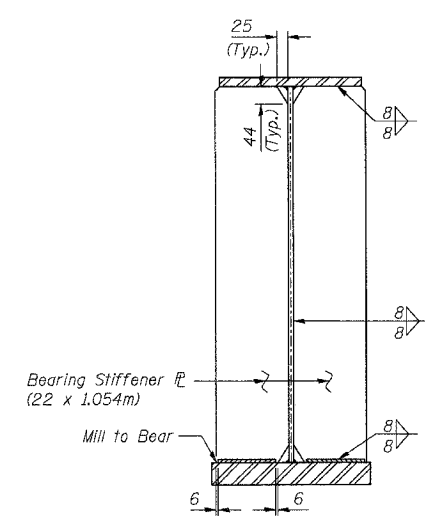
TOP OF WEB ELEVATIONS
(For Fabrication Use Only)



DIAPHRAGM D1

* Provide 24 mm x 40 mm vertical slotted holes in 12 mm PL for diaphragms in stage construction bay, Stage II side. Increase 40 mm dimension to 60 mm in plate in stage construction bay, Stage II side. 8 mm structural plate washers shall be placed over slotted holes. Diaphragm in stage construction bay shall not be installed until after Stage II pour is completed. Slotted hole bolts shall be finger-tightened prior to the deck closure pour and fully-tightened after completion of the deck pour.

FOR INFORMATION ONLY.
INCLUDED IN BEAM FABRICATION
CONTRACT EXCEPT STUD
SHEAR CONNECTORS.

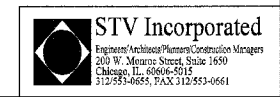


BEARING STIFFENER

BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	2409

- NOTES:**
1. N.T.R. denotes members to which notch toughness requirements are applicable.
 2. All steel shown for the Girders and Bearing Stiffeners shall be AASHTO M270M Grade 345.
 3. All steel shown for the Diaphragm, Connecting Plates and Angles shall be AASHTO M270M Grade 250.



REVISIONS	NAME	DATE

SHT. S-17 OF S-27

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER US ROUTE 14
F.A.P. ROUTE 343 SECTION 70HB-R-1
COOK COUNTY STATION 10+001.778
STRUCTURE NO. 016-2861

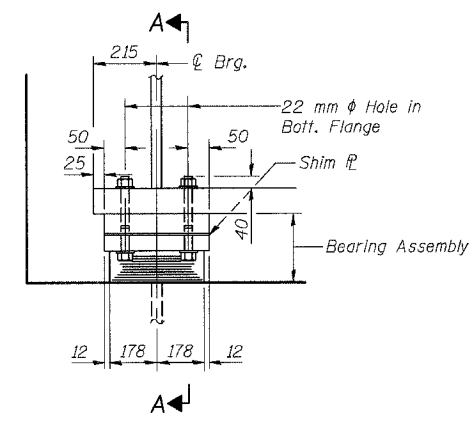
GIRDER ELEVATION & STEEL DETAILS

DESIGNED: JAN DRAWN: BTO
DATE: 10/06 CHECKED: BTO CHECKED: JAN

10/13/06 2:30 PM

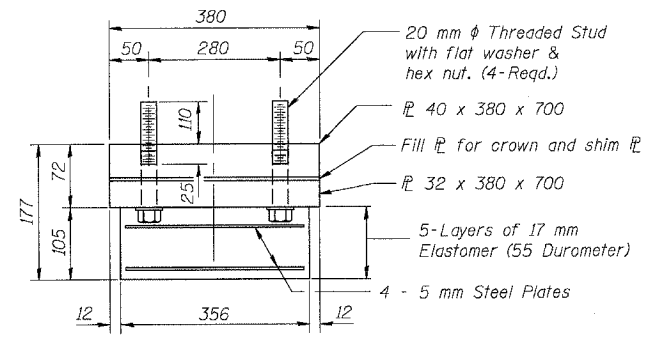
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	203
STA.		TO STA.		
ILLINOIS		FED. AID PROJECT		

CONTRACT NO. 62897



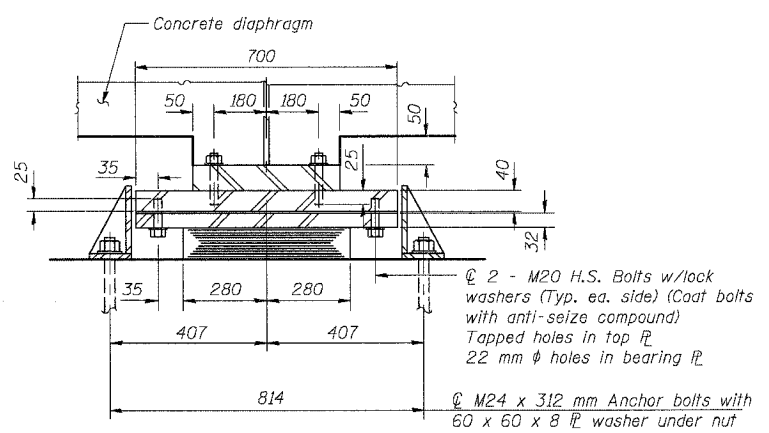
ELEVATION AT ABUT.

TYPE I ELASTOMERIC EXP. BRG.
(East Abutment)

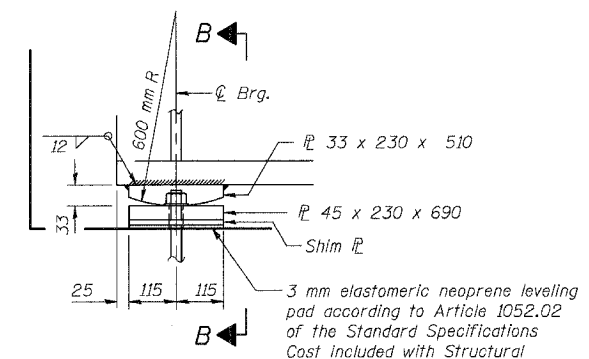


BEARING ASSEMBLY

Note: Shim plates shall not be placed under Bearing Assembly.



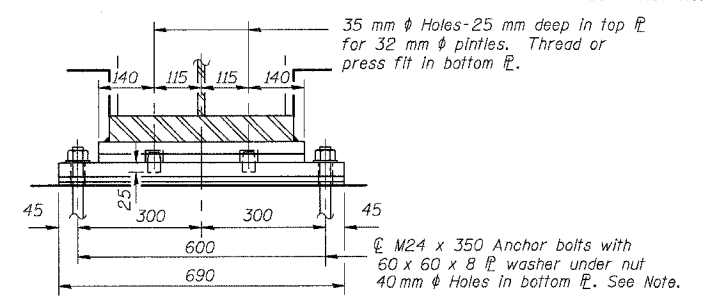
SECTION A-A



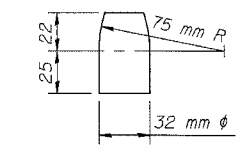
ELEVATION

FIXED BEARING
(West Abutment)

FOR INFORMATION ONLY.
BEARINGS FABRICATED UNDER
BEAM FABRICATION CONTRACT



SECTION B-B



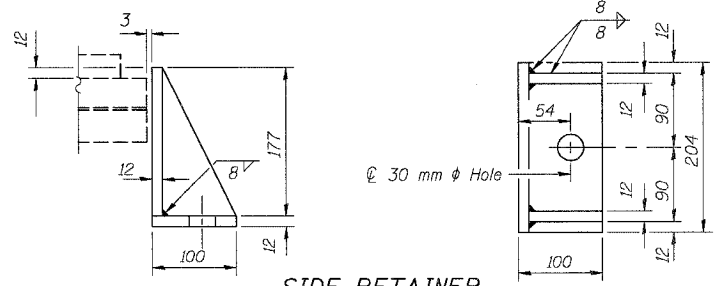
PINTLE

BILL OF MATERIAL

Item	Unit	Total
Erecting Elastomeric Bearing Assembly, Type I	Each	11

NOTES:

- Structural steel for bearing plates shall be AASHTO M270M, Grade 250.
- Anchor bolts at fixed bearings may be built into the masonry. See sheet S-19 of S-27 for Anchor Bolt installation.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

STV Incorporated
Engineers/Architects/Planners/Construction Managers
200 W. Madison Street, Suite 1650
Chicago, IL 60606-5015
312-593-0655, FAX 312-551-0661

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER US ROUTE 14
F.A.P. ROUTE 343 SECTION 70HB-R-1
COOK COUNTY STATION 10+001.778
STRUCTURE NO. D16-2861

BEARING DETAILS
DESIGNED: BTO DRAWN: BTO
CHECKED: JAN CHECKED: JAN
DATE: 10/06

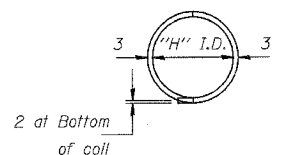
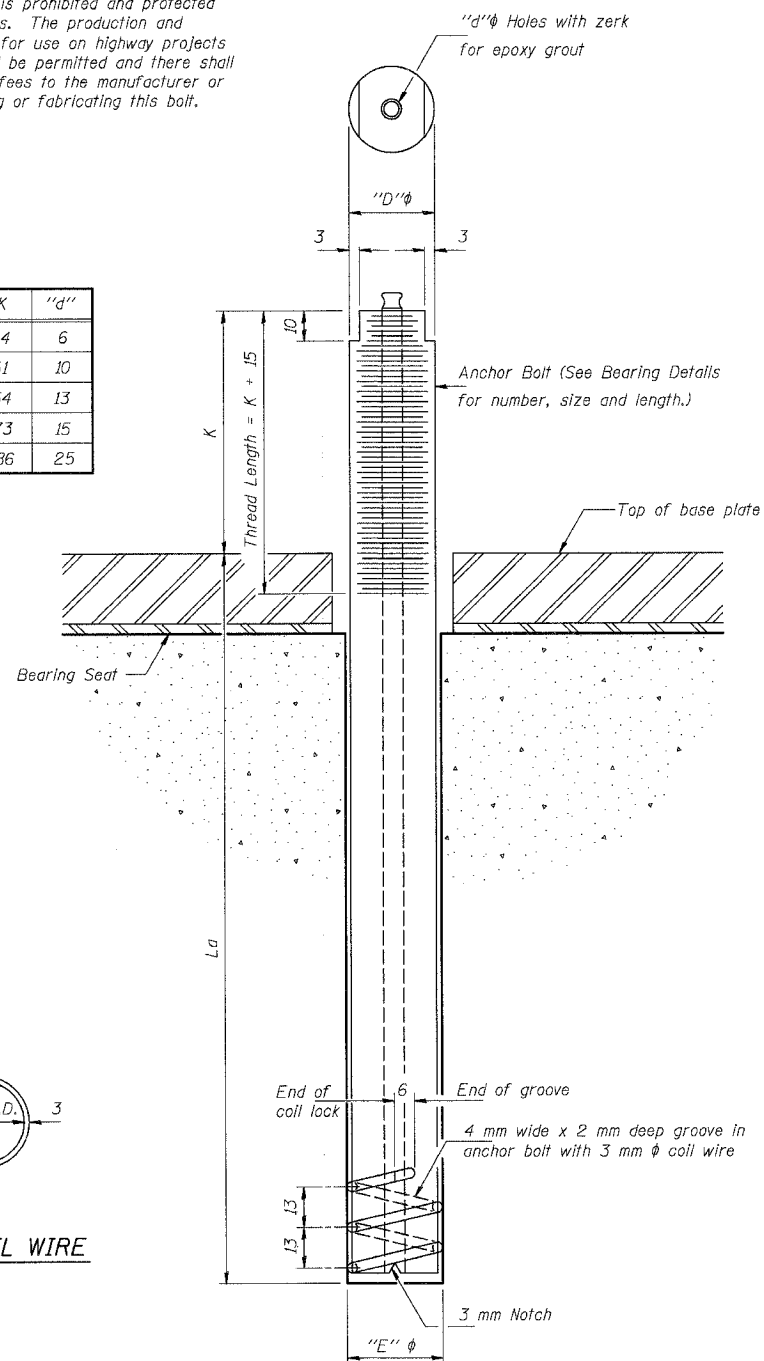
SHT. S-18 OF S-27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	204
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62897

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
24	27	20	44	6
30	33	26	51	10
36	39	32	54	13
48	51	44	73	15
64	67	60	86	25



PLAN-COIL WIRE

ILLINOIS COIL-LOCK ANCHOR BOLT

MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.
The coil wire shall be made of any suitable soft steel wire.
The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.
The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade I and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.
The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:
1. A threaded rod stud with nut and washer of the type specified.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Diameter	*Length	Total	Type
E. Abut.	M24	312	22	ASTM A307
W. Abut.	M24	350	22	ASTM A307

*Length = La

ASTM F 1554 (Fy = 724 MPa), ASTM A 449 and AASHTO M 314 (Fy = 724 MPa) anchor bolts may be substituted for the anchor bolts shown above.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.
Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.
The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for "Erecting Structural Steel".
All dimensions are in millimeters (mm) except as noted.

SHT. S-19 OF S-27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER US ROUTE 14
F.A.P. ROUTE 343 SECTION 70HB-R-1
COOK COUNTY STATION 10+001.778
STRUCTURE NO. 016-2861

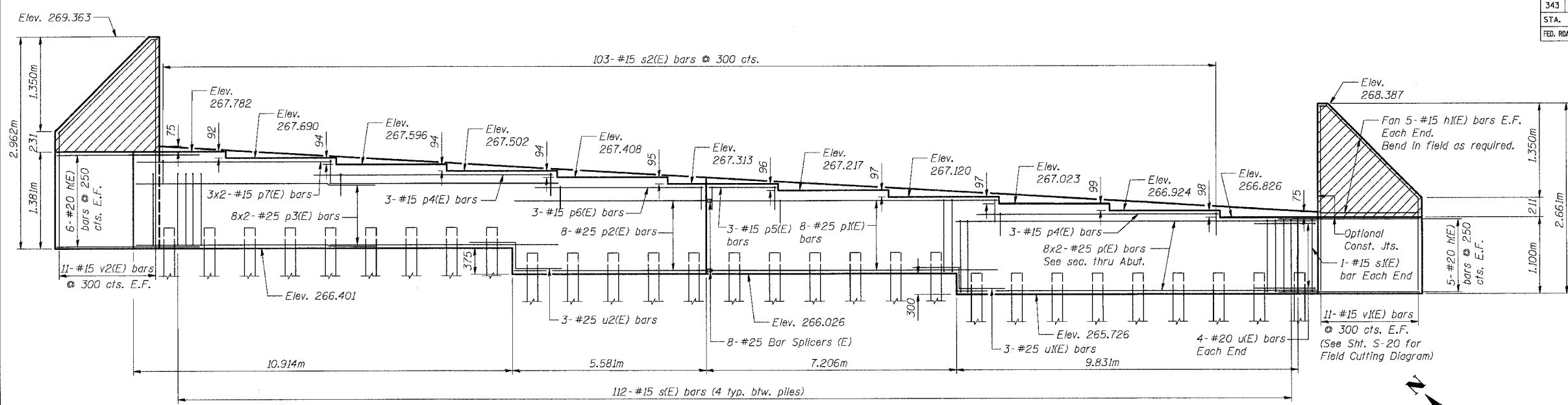
ANCHOR BOLT DETAILS

DESIGNED: BTO DRAWN: BTO
DATE: 10/06 CHECKED: JAN CHECKED: JAN

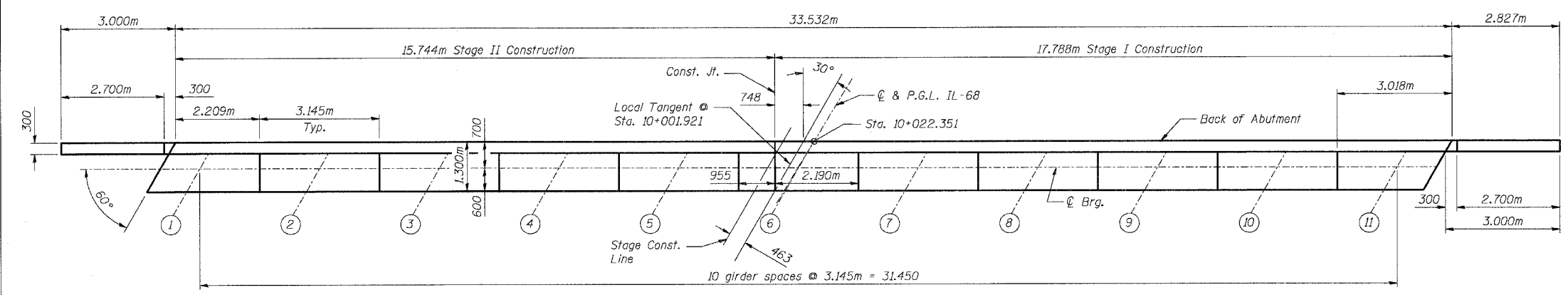


ABB-1 (M) 4-30-99

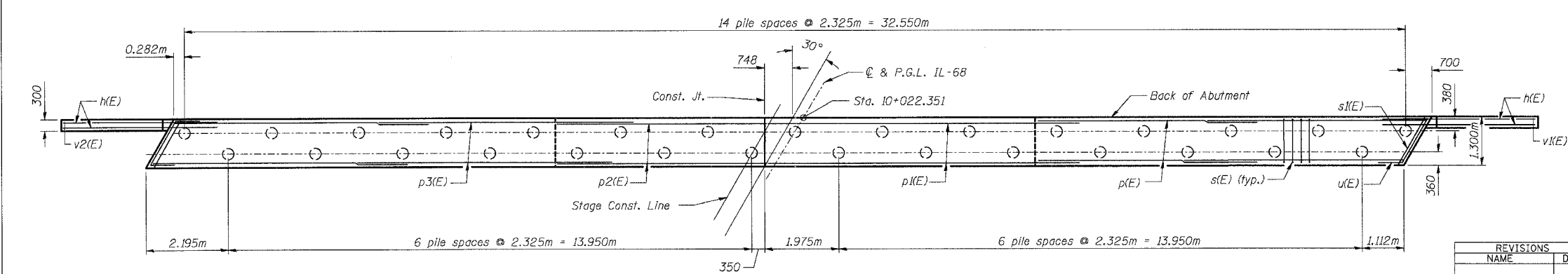
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	205
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62897				



ELEVATION
(Looking East)



TOP VIEW



PILE PLAN

MIN. BAR LAP

- #15 = 640
- #20 = 790
- #25 = 1.32m

PILE DATA

Pile Size and Type: 305mm ϕ Metal Shell, w/6.3mm wall
 Nominal Required Bearing: 1500 KN
 Allowable Resistance Available: 500 KN
 Est. Pile Length: 22.35m
 Number of Production: 28
 Number of Test Piles: 1
 Piles Shall be driven through 457mm ϕ pre-cored holes extending to Elev. 259.76. The Metal Shell Piles shall be according to ASTM A252, Grade 3.

NOTES:

1. Pour steps monolithically with abutment.
2. Space reinforcement in cap to miss anchor bolts.
3. Bars designated (E) shall be epoxy coated.
4. E.F. Indicates Each Face
5. For Bill of Material, sections and details, see Sht. S-21 of S-27.
6. Hatched area to be poured with deck after girders are in place. Quantity of concrete for hatched area included with "Concrete Superstructure" on sht. S-13 of S-27.

SHT. S-20 OF S-27

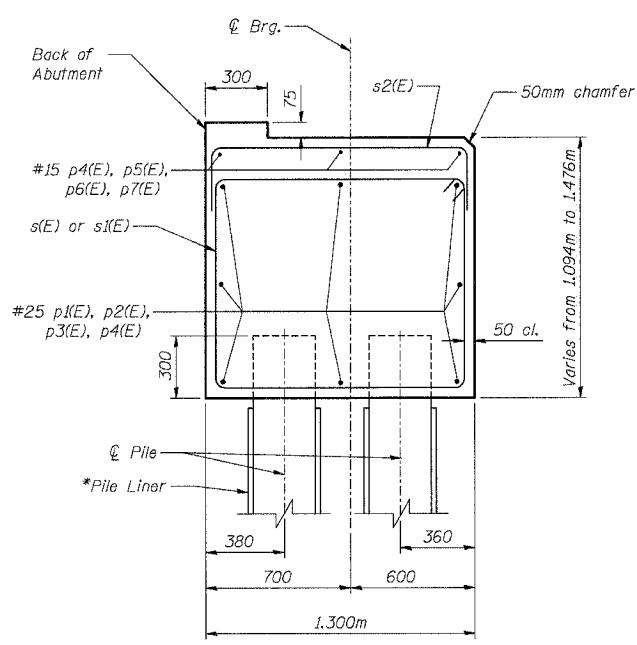
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 OVER US ROUTE 14
 F.A.P. ROUTE 343 SECTION 70HB-R-1
 COOK COUNTY STATION 10+001.778
 STRUCTURE NO. 016-2861
EAST ABUTMENT PLAN & ELEVATION
 DESIGNED: BTO
 CHECKED: JAN
 DATE: 10/06
 DRAWN: BTO
 CHECKED: JAN

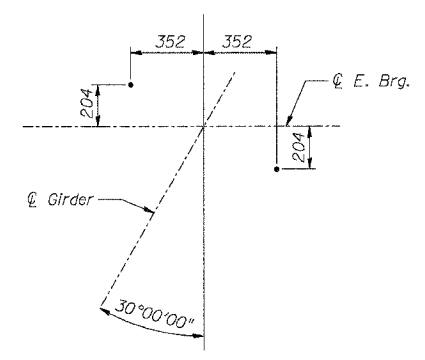


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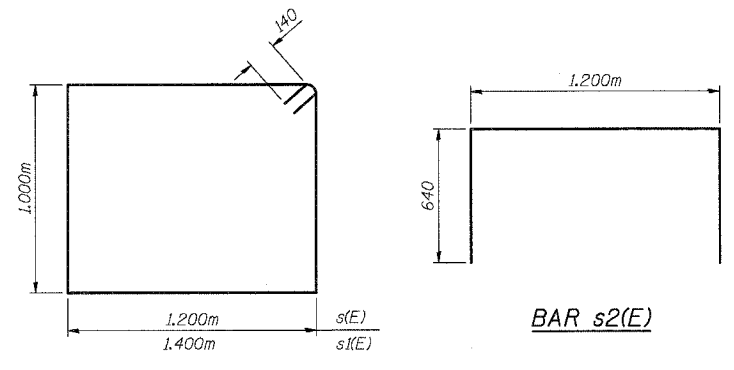
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	206
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62897				



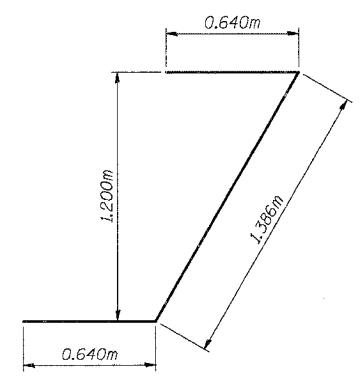
SECTION THRU ABUTMENT



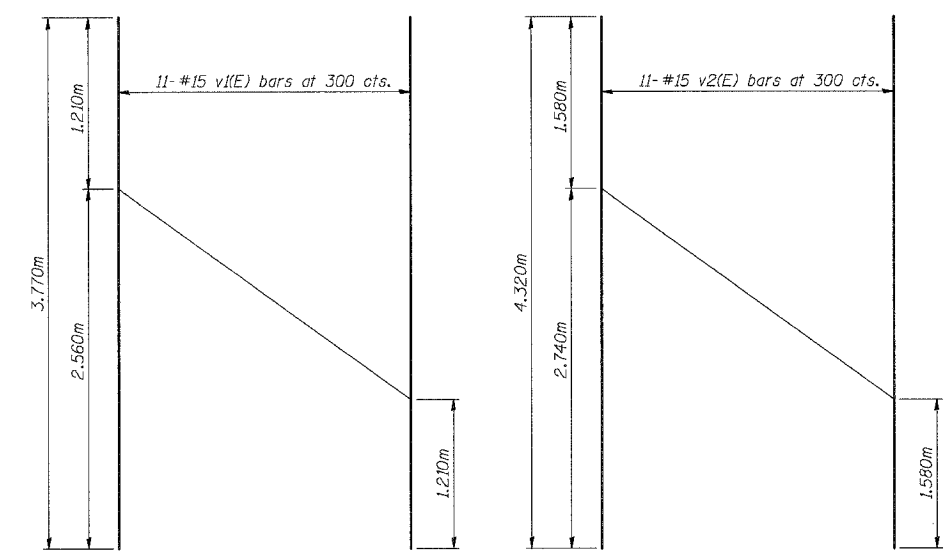
ANCHOR BOLT LAYOUT EAST ABUTMENT



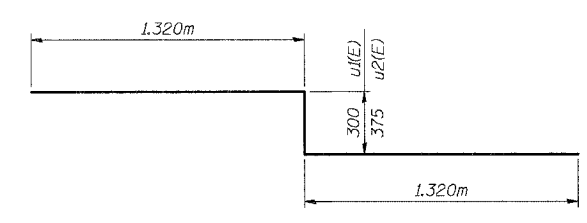
BARS s(E) and s1(E) and BAR s2(E)



BAR u(E)



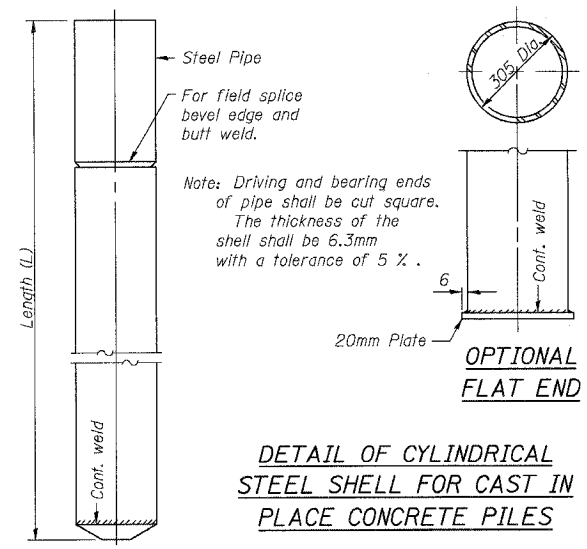
FIELD CUTTING DIAGRAM



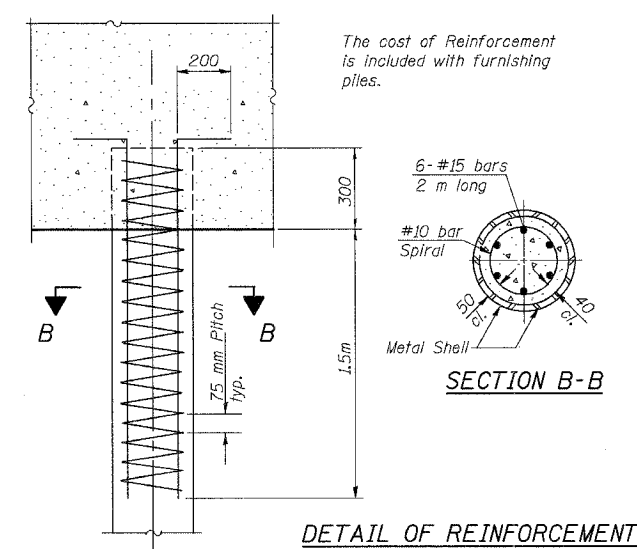
BAR u1(E) and u2(E)

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
n(E)	22	15	3.800	—
h1(E)	20	15	3.970	—
p(E)	16	25	5.950	—
p1(E)	8	25	8.380	—
p2(E)	8	25	5.530	—
p3(E)	16	25	6.730	—
p4(E)	6	15	6.880	—
p5(E)	3	15	2.090	—
p6(E)	3	15	4.690	—
p7(E)	6	15	3.320	—
s(E)	112	15	4.680	□
s1(E)	2	15	5.080	□
s2(E)	103	15	2.480	□
u(E)	8	20	2.660	J
u1(E)	3	25	2.940	J
u2(E)	3	25	3.015	J
v1(E)	11	15	3.770	—
v2(E)	11	15	4.320	—
Concrete Structures			Cu. M	57.5
Reinforcement Bars, Epoxy Coated			Kg	3120
Test Pile Metal Shells			Each	1
Driving Piles			m	626
Furnishing Metal Shell Piles 305mm			m	626



DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES



DETAIL OF REINFORCEMENT FOR METAL SHELLS

NOTES:

- * - Pile Liner shall be included in the cost of "Furnishing Metal Pile Shells 305mm".
- Reinforcement bars designated (E) shall be epoxy coated.
- For details of Bar Splicers, see Sht. S-25 of S-27.
- The test pile shall be driven to 110 percent of the Nominal Required Bearing indicated on the pile data information.

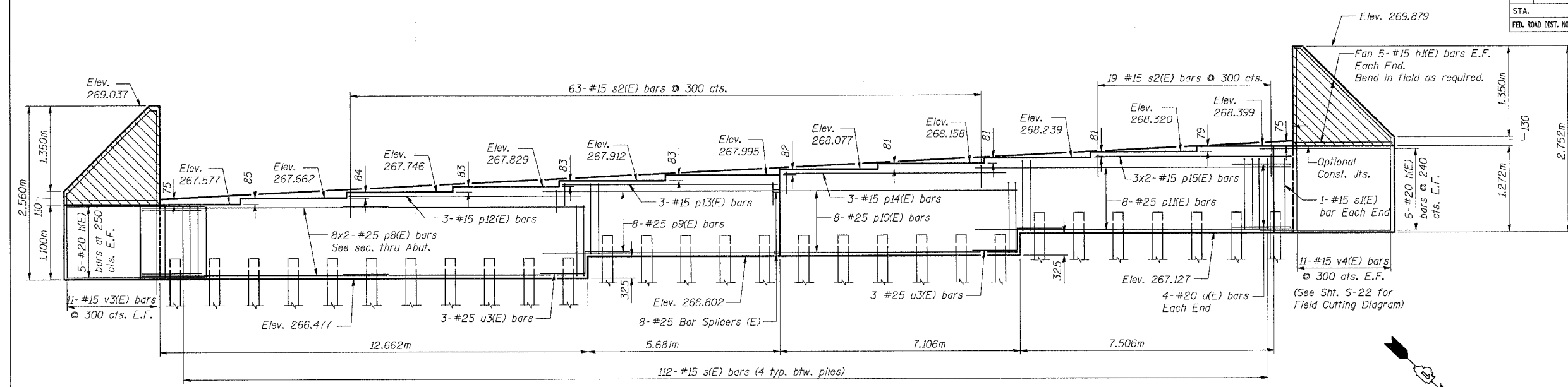
SHT. S-21 OF S-27

REVISIONS	NAME	DATE

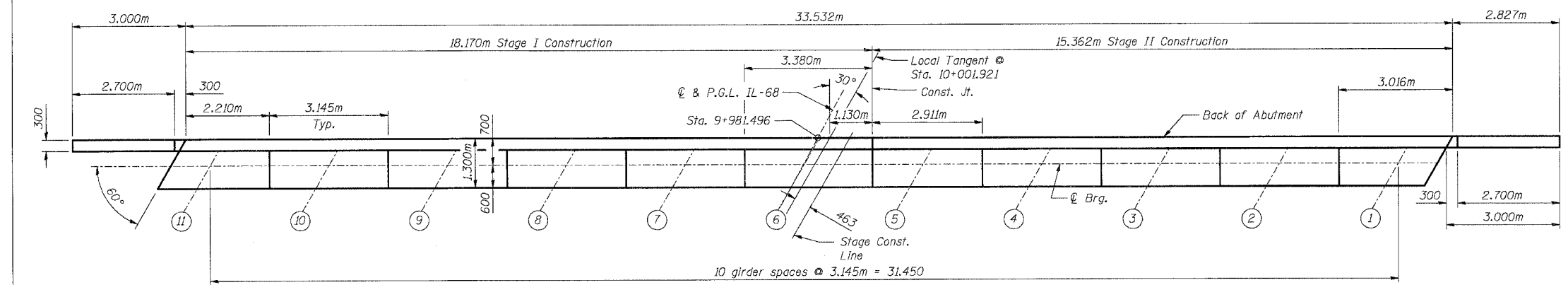
STV Incorporated
 Engineer/Architect/Planner/Construction Manager
 200 W. Madison Street, Suite 1650
 Chicago, IL 60605-2015
 312.955-0655, FAX 312.553-0661

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 OVER US ROUTE 14
 F.A.P. ROUTE 343 SECTION 70HB-R-1
 COOK COUNTY STATION 10+001.778
 STRUCTURE NO. 016-2861
 EAST ABUTMENT DETAILS & PILE DETAILS
 DESIGNED: BTO DRAWN: BTO
 DATE: 10/06 CHECKED: JAN CHECKED: JAN

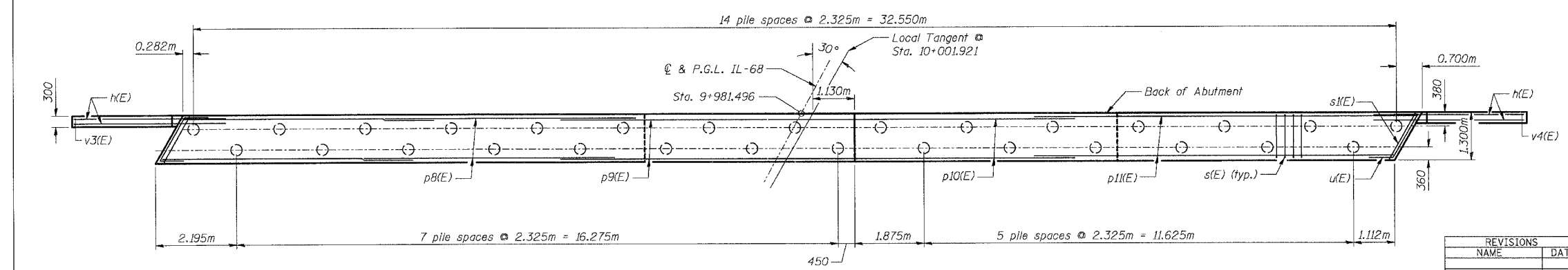
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	207
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62897				



ELEVATION
(Looking West)



TOP VIEW



PILE PLAN

MIN. BAR LAP
 #15 = 640
 #20 = 790
 #25 = 1.32m

PILE DATA
 Pile Size and Type: 305mm ϕ Metal Shell, w/6.3mm wall
 Nominal required Bearing: 1500 KN
 Allowable Resistance Available: 500 KN
 Est. Pile Length: 23.22m
 Number of Production: 28
 Number of Test Piles: 1
 Piles Shall be driven through 457mm ϕ pre-cored holes extending to Elev. 259.76. The Metal Shell Piles shall be according to M A252, Grade 3.

- NOTES:**
1. Pour steps monolithically with abutment.
 2. Space reinforcement in cap to miss anchor bolts.
 3. Bars designated (E) shall be epoxy coated.
 4. E.F. indicates Each Face
 5. For Bill of Material, sections and details, see Sht. S-23 of S-27.
 6. Hatched area to be poured with deck after girders are in place. Quantity of concrete for hatched area included with "Concrete Superstructure" on sht. S-13 of S-27.

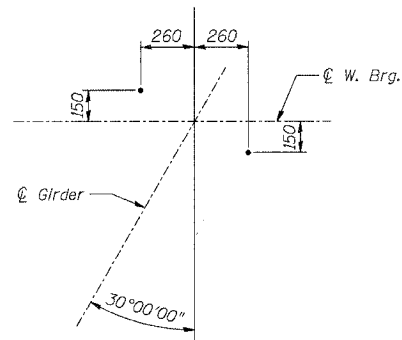
SHT. S-22 OF S-27

REVISIONS	NAME	DATE

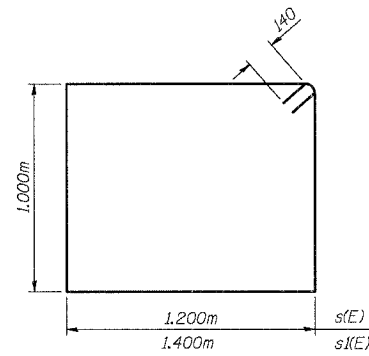


ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 OVER US ROUTE 14
 F.A.P. ROUTE 343 SECTION 70HB-R-1
 COOK COUNTY STATION 10+001.778
 STRUCTURE NO. 016-2861
WEST ABUTMENT PLAN & ELEVATION
 DESIGNED: BTO DRAWN: BTO
 DATE: 10/06 CHECKED: JAN CHECKED: JAN

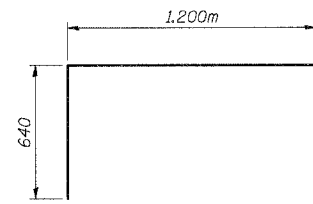
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	208
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62897				



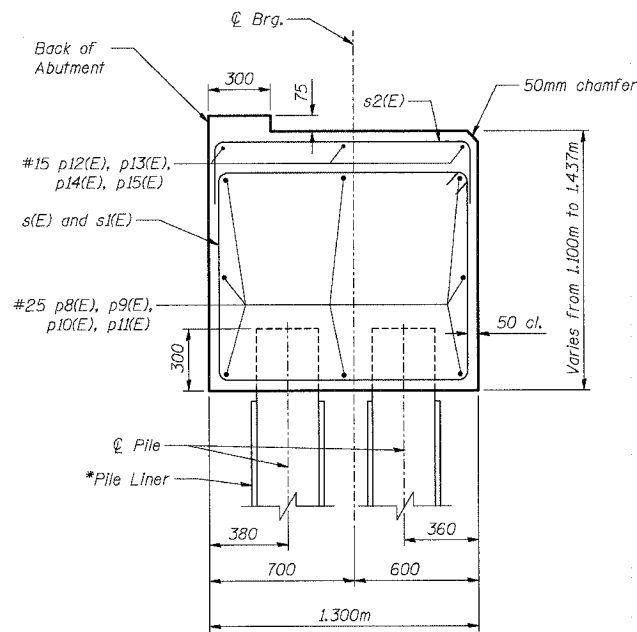
ANCHOR BOLT LAYOUT WEST ABUTMENT



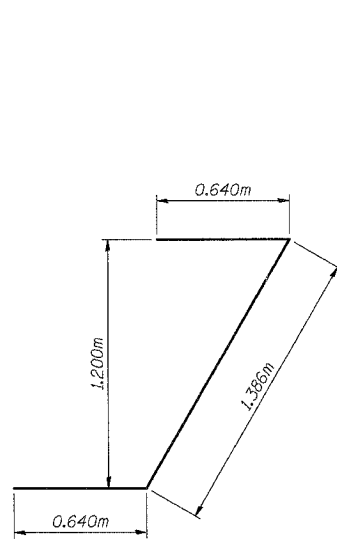
BARS s(E) and s1(E)



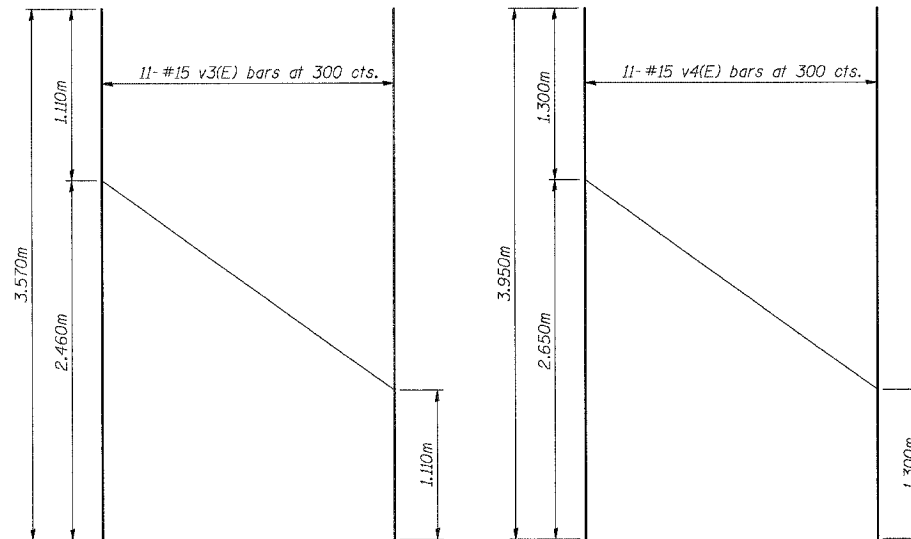
BAR s2(E)



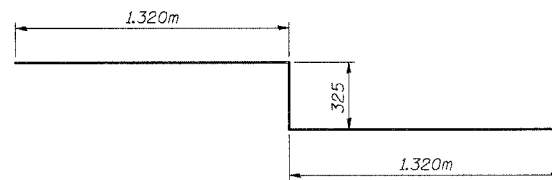
SECTION THRU ABUTMENT



BAR u(E)



FIELD CUTTING DIAGRAM



BAR u3(E)

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h(E)	22	15	3.800	
h1(E)	20	15	3.970	
p8(E)	16	25	7.230	
p9(E)	8	25	7.000	
p10(E)	8	25	7.050	
p11(E)	8	25	9.580	
p12(E)	3	15	6.930	
p13(E)	3	15	6.370	
p14(E)	3	15	6.640	
p15(E)	6	15	3.350	
s(E)	112	15	4.680	
s1(E)	2	15	5.080	
s2(E)	82	15	2.480	
u(E)	8	20	2.660	
u3(E)	6	25	2.965	
v3(E)	11	15	3.570	
v4(E)	11	15	3.950	
Concrete Structures			Cu. M	53.7
Reinforcement Bars, Epoxy Coated			Kg	2,990
Test Pile Metal Shells			Each	1
Driving Piles			m	650
Furnishing Metal Shell Piles 305mm			m	650

NOTES:

- * - Pile Liner shall be included in the cost of "Furnishing Metal Pile Shells 305mm".
- Reinforcement bars designated (E) shall be epoxy coated.
- For details of Bar Splicers, see Sht. S-25 of S-27.
- The test pile shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

SHT. S-23 OF S-27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 OVER US ROUTE 14
 F.A.P. ROUTE 343 SECTION 70HB-R-1
 COOK COUNTY STATION 10+001.778
 STRUCTURE NO. 016-2861

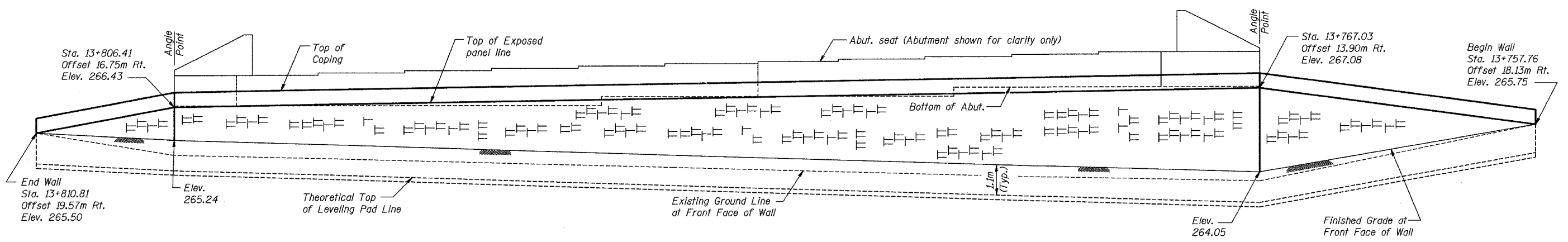
WEST ABUTMENT DETAILS

DESIGNED: BTO DRAWN: BTO
 DATE: 10/06 CHECKED: JAN CHECKED: JAN

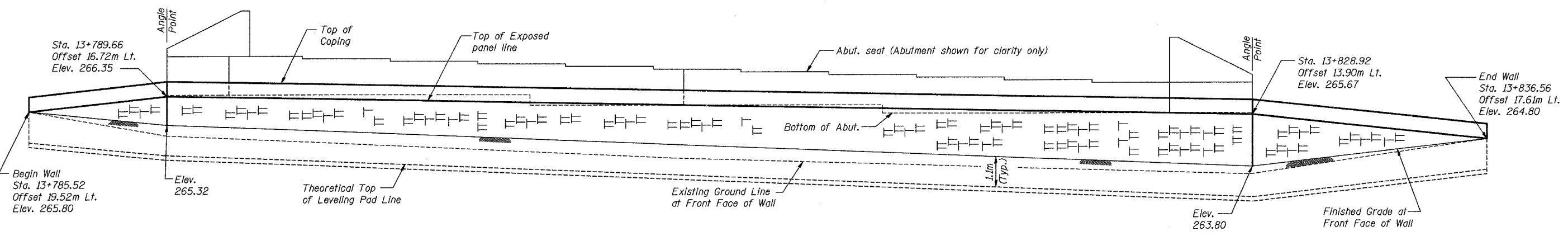


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	209
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62897



WEST ABUTMENT WALL
(Unfolded Elevation View)



EAST ABUTMENT WALL
(Unfolded Elevation View)

NOTES:

Stationing and Offsets from @ US 14.

For Plan of Mechanically Stabilized Earth Retaining Wall see sheet S-01 of S-27.

For Section Through MSE Retaining Wall see sheet S-02 of S-27.

Bearing Capacity of soil below MSE wall is 215 kPa with a corresponding factor of Safety of 2.5.

SHT. S-24 OF S-27

BILL OF MATERIAL

Item	Unit	Total
Mechanically Stabilized Earth Retaining Wall	SQ M	344

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER US ROUTE 14
F.A.P. ROUTE 343 SECTION 70HB-R-1
COOK COUNTY STATION 10+001.778
STRUCTURE NO. 016-2861

MECHANICALLY STABILIZED EARTH RETAINING WALLS

DESIGNED: BTO
DRAWN: BTO
DATE: 10/06
CHECKED: JAN
CHECKED: JAN



F.A.P. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	210
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62897				

NOTES

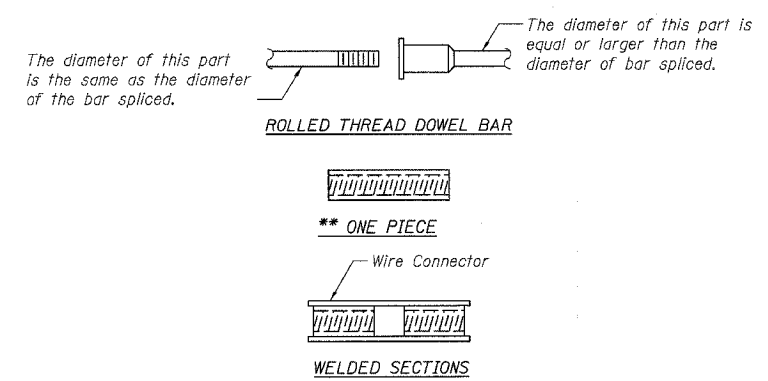
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 400 MPa yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the 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 = $1.25 \times 10^{-3} \times f_y \times A_t$
(Tension in kN)
- ② Minimum *Pull-out Strength = $1.25 \times 10^{-3} \times f_{s,allow} \times A_t$
(Tension in kN)

Where f_y = Yield strength of lapped reinforcement bars in MPa.
 $f_{s,allow}$ = Allowable tensile stress in lapped reinforcement bars in MPa (Service Load)
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

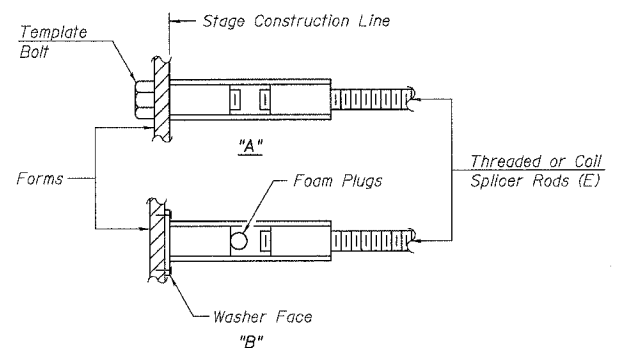
BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kN - tension	Min. Pull-Out Strength kN - tension
#10	510 mm	70	5.9
#15	610 mm	100	40
#20	790 mm	150	60
#25	1.04 m	250	100
#30	1.37 m	350	140

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



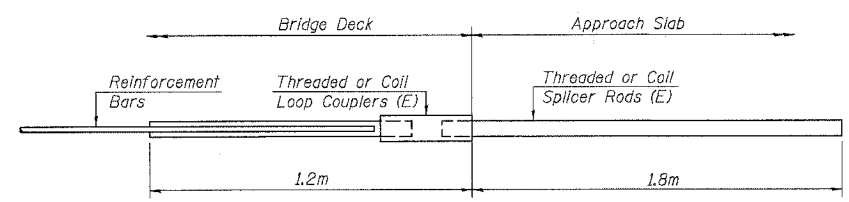
BAR SPLICER ASSEMBLY ALTERNATIVES

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



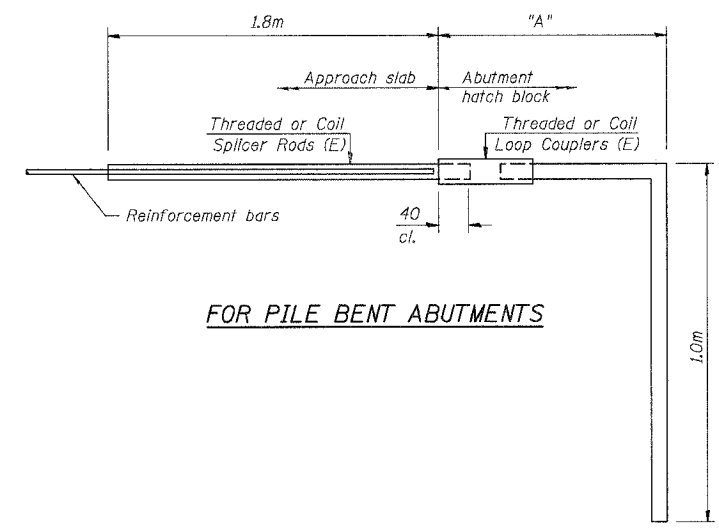
INSTALLATION AND SETTING METHODS

"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.



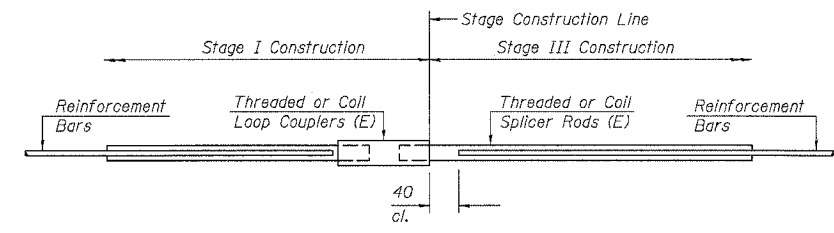
FOR SEMI-INTEGRAL ABUTMENTS

Bar Size	No. Assemblies Required	Location
#15	93	E. Abut.
#15	93	W. Abut.



FOR PILE BENT ABUTMENTS

Bar Splicer for #15 bar	
Min. Capacity	= 100 kN - tension
Min. Pull-out Strength	= 40kN - tension
No. Required	= N/A



STANDARD

Bar Size	No. Assemblies Required	Location
#25	8	E. Abut.
#25	8	W. Abut.
#15	522	Deck

BAR SPLICER ASSEMBLY DETAILS

SHT. 5-25 OF S-27

REVISIONS	
NAME	DATE

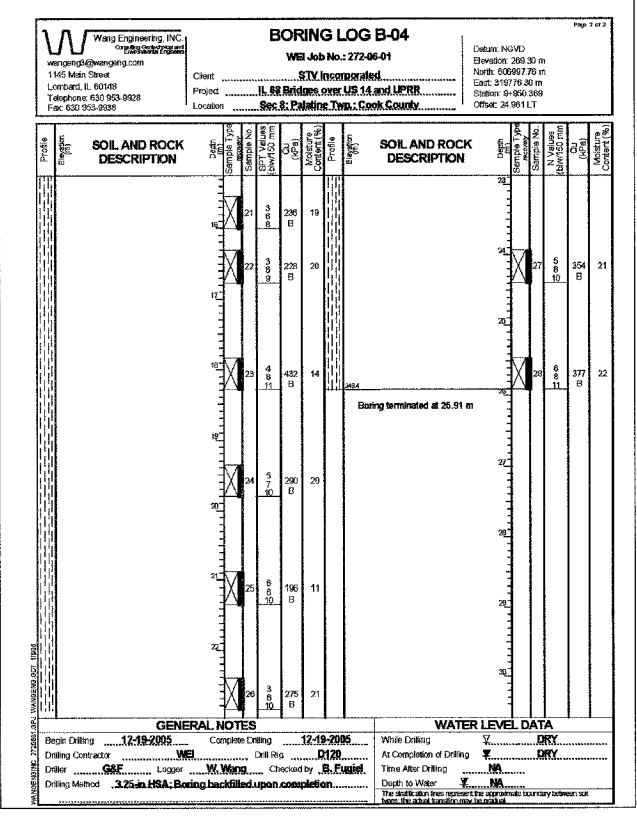
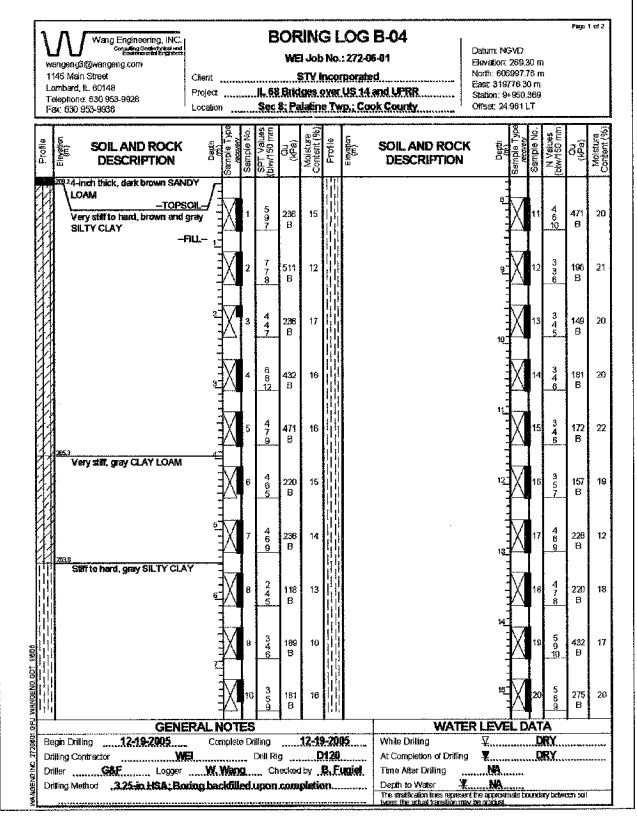
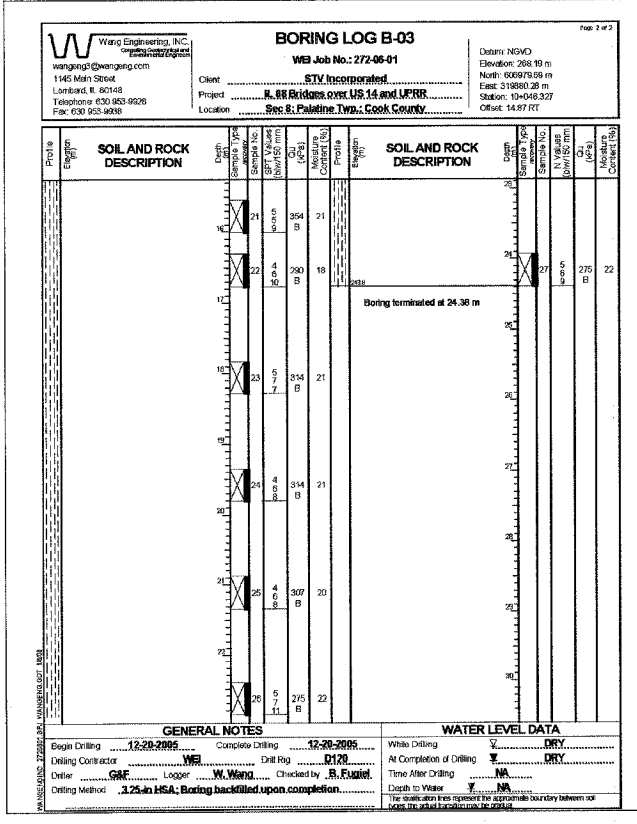
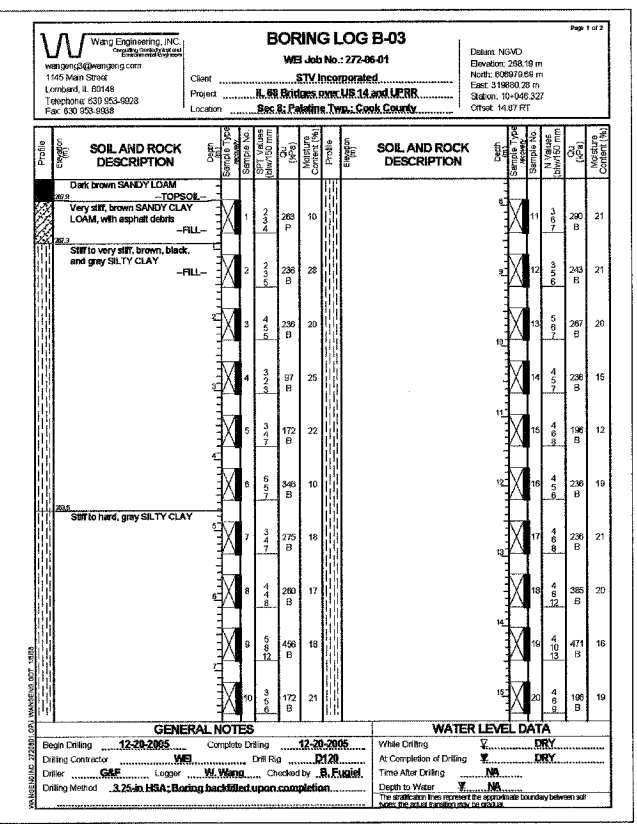
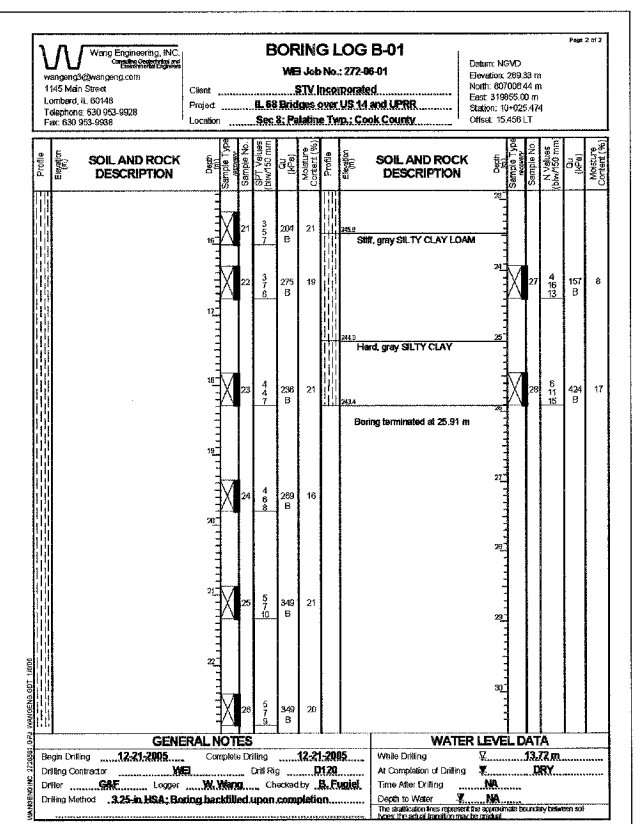
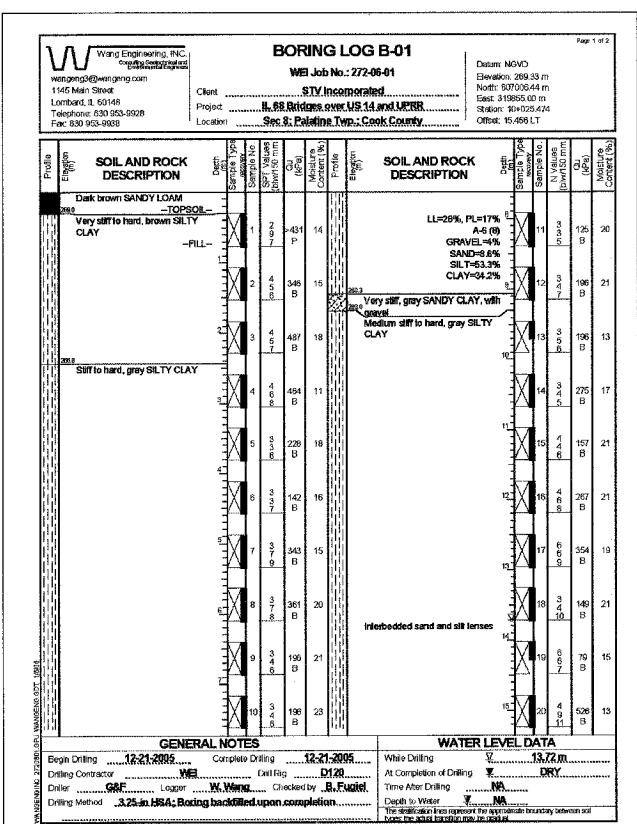
ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 OVER US ROUTE 14
 F.A.P. ROUTE 343 SECTION 70HB-R-1
 COOK COUNTY STATION 10+001.778
 STRUCTURE NO. 016-2861

STV Incorporated
 Engineers/Architects/Planners/Construction Managers
 200 W. Monroe Street, Suite 1650
 Chicago, IL 60606-0115
 312.753-0855, FAX 312.553-0661

BAR SPLICER ASSEMBLY
 DESIGNED: BTO DRAWN: BTO
 DATE: 10/06 CHECKED: JAN CHECKED: JAN

BSD-1 (M) (updated to 9-01-03)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	211
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62897				



NOTE:
 For 1974 Soil Borings, see existing bridge plans for SN 016-2410.

REVISIONS	
NAME	DATE

SHT. S-26 OF S-27

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 OVER US ROUTE 14
 F.A.P. ROUTE 343 SECTION 10+001.778
 COOK COUNTY STATION 10+001.778
 STRUCTURE NO. 016-2861

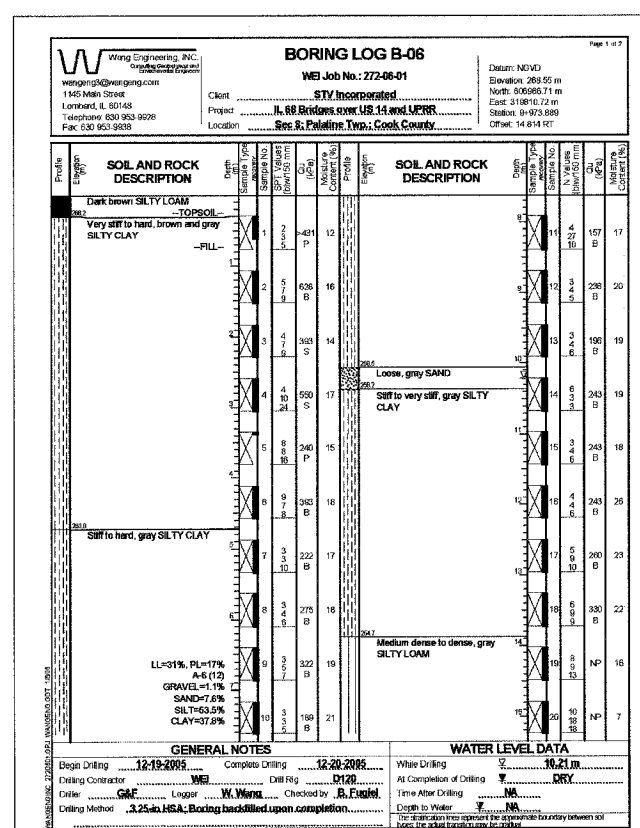
BORING LOGS

DESIGNED: BTO DRAWN: BTO
 DATE: 10/06 CHECKED: JAN CHECKED: JAN

157-A16-2861-A5-A5(01) 01/13/2006 2:07:51 PM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	212
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

CONTRACT NO. 62897



BENCHMARK

Chiseled '□' SW side of concrete light pole base, Easterly side of Rte. 14.
Sta. 13+605.9, 17.6m Lt. Elev. 264.205

Existing Structure: None

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	213
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 62897

DESIGN SPECIFICATION

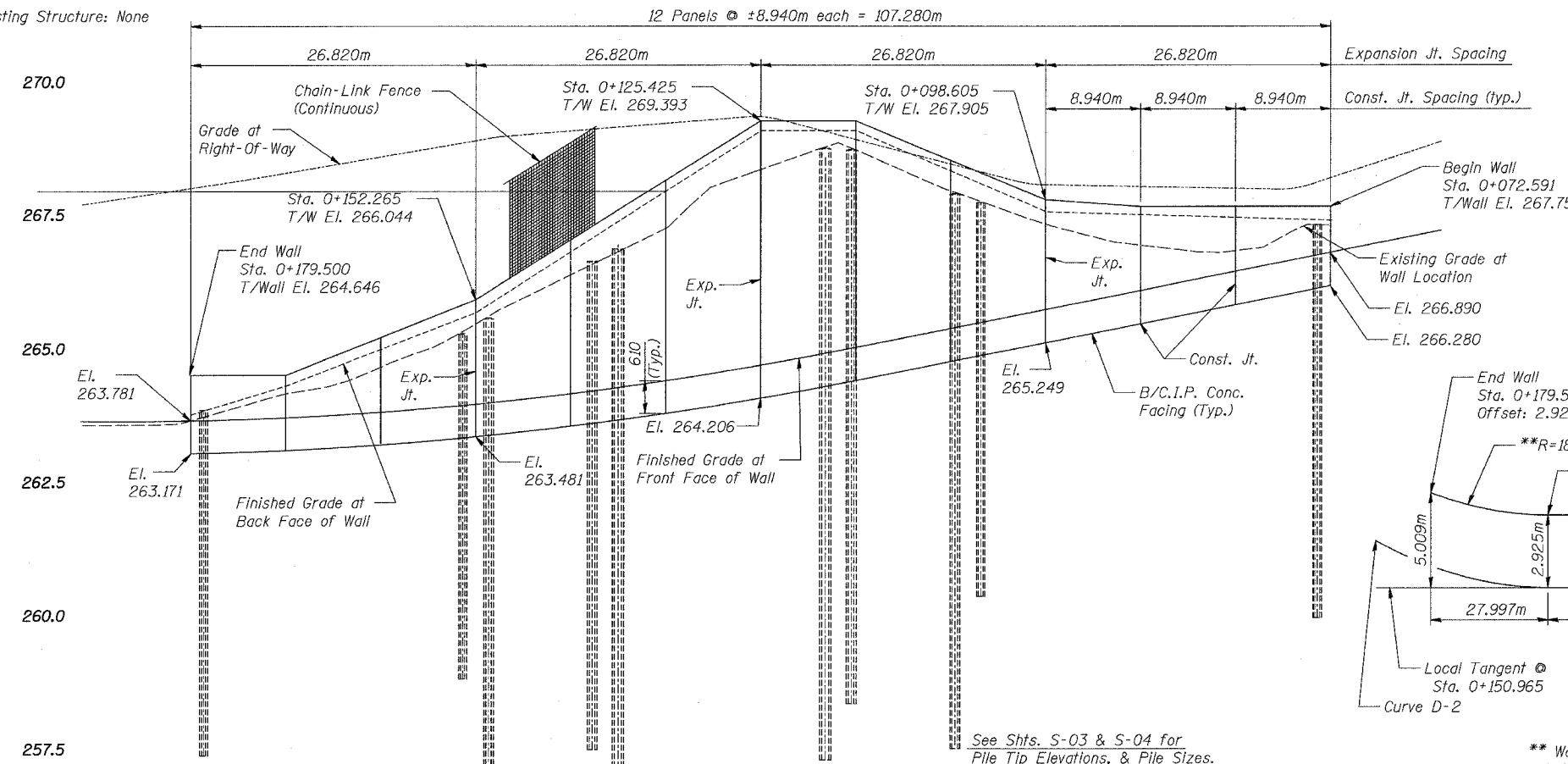
2002 AASHTO Std. Spec, 17th edition

DESIGN STRESSES

NEW CONSTRUCTION

FIELD UNITS

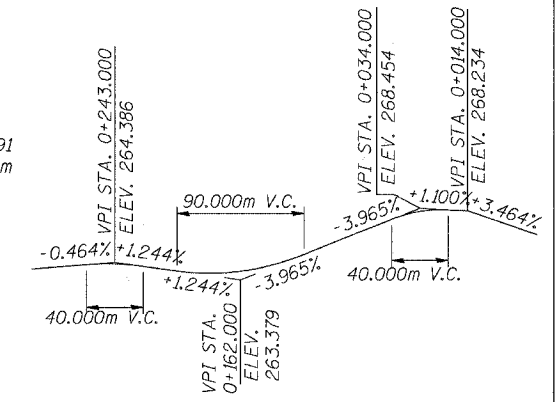
f'c = 24 MPa (concrete)
Fy = 250 MPa (M270M, Gr. 250 Struct. Steel)
fy = 400 MPa (reinforcement)



ELEVATION

OFFSET SKETCH

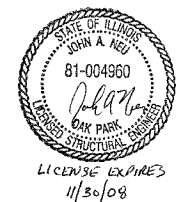
** Wall to be built along straight chords between construction joints



PROFILE GRADE RAMP D

CURVE DATA

CURVE D-1	CURVE D-2
PI Sta. = 0+066.406	PI Sta. = 0+171.646
Δ = 37°06'58" Lt.	Δ = 12°17'44" Lt.
R = 60.000	R = 192.000
T = 20.143	T = 20.681
L = 38.868	L = 41.203
E = 3.291	E = 1.111
P.C. Sta. = 0+046.263	P.C. Sta. = 0+150.965
P.T. Sta. = 0+085.131	P.T. Sta. = 0+192.168
S.E. = 4.0%	S.E. = 4.0%
Trans. in 0+014 to 0+063	Trans. in 0+140 to 0+157
Trans. out 0+069 to 0+118	Trans. out 0+174 to 0+229

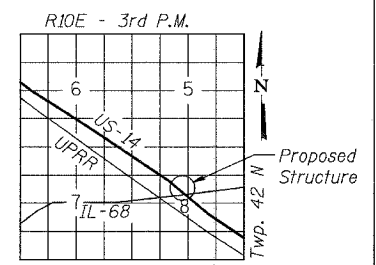


APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Robert E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

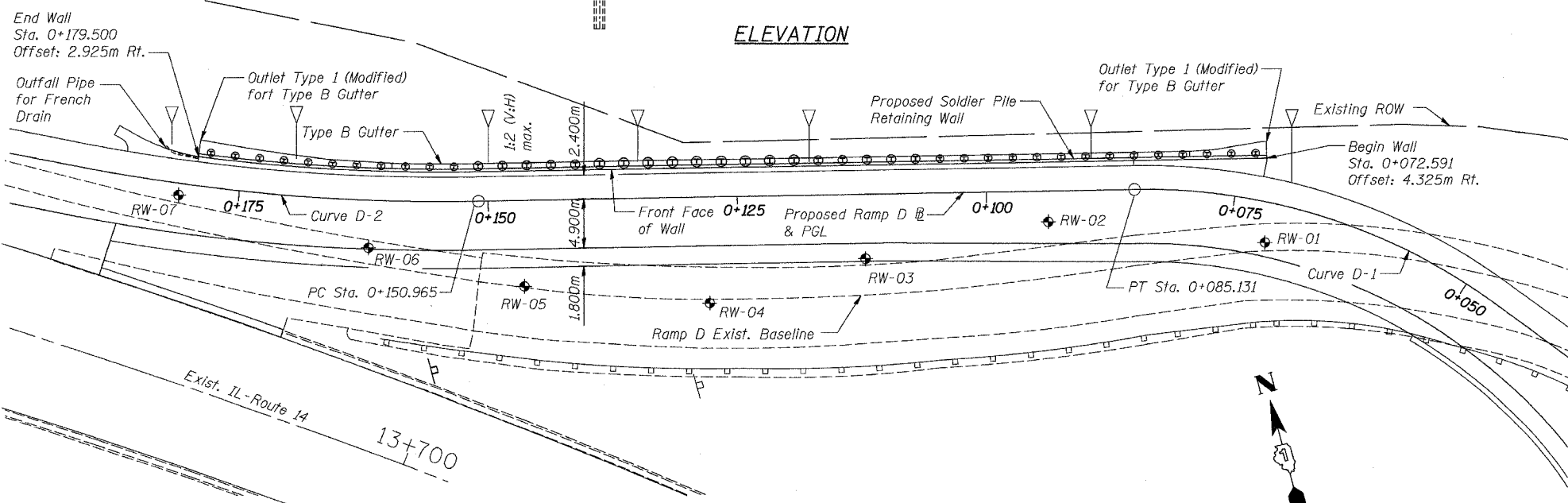
NOTES:

- All dimensions in millimeters (mm) except as noted.
- Offsets are measured from the @ to the front face of wall



LOCATION SKETCH

SHT. S-01 OF S-08



PLAN

REVISIONS	NAME	DATE

STV Incorporated
Engineers/Architects/Planners/Construction Managers
208 W. Monroe Street, Suite 1650
Chicago, IL 60606-5015
312-553-0655, FAX 312-553-0661

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 F.A.P. ROUTE 343
SECTION 70HB-R-1 COOK COUNTY
DRILLED SOLDIER PILE WALL
STATION 0+072.591 TO 0+179.500
STRUCTURE NO. 016-W979

GENERAL PLAN

DESIGNED: BTO
CHECKED: JAN

DRAWN: BTO
CHECKED: JAN

DATE: 10/06

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	214
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62897				

TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	SUBSTRUCTURE	SUPERSTRUCTURE	TOTAL QUANTITIES
Structure Excavation	CU M	50.1		50.1
Concrete Structures	CU M	97.1		97.1
Protective Coat	SQ M	400.0		400.0
Stud Shear Connectors	EACH	352		352
Untreated Timber Lagging	SO M	219.2		219.2
Furnishing Soldier Piles (W Section)	METER	383		383
Reinforcement Bars, Epoxy Coated	KG	6,340		6,340
Drilling and Setting Soldier Piles (In Soil)	CU M	249.6		249.6
Geocomposite Wall Drain	SQ M	154		154
Pipe Underdrains for Structures, 100MM	METER	109		109
Chain Link Fence-1.8m Attached to Structure	METER	107		107

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of AASHTO M31M or, M322M Grade 400.
2. The contractor is responsible for the design and performance of the lagging using no less than a 75mm nominal rough sawn thickness and timber with a minimum allowable bending stress, Fb of 6.89 MPa.
3. All dimensions are in millimeters (mm) except as noted.
4. All exposed corners shall have a 25mm chamfer unless noted.
5. All construction joints shall be bonded.

INDEX OF SHEETS

- S-01 General Plan
- S-02 General Notes, B.O.M., & Index of Sheets
- S-03 Soldier Pile Wall Plan & Elevation
- S-04 Soldier Pile Wall Plan & Elevation
- S-05 Soldier Pile Wall Details
- S-06 Chain Link Fence Details
- S-07 Boring Logs
- S-08 Boring Logs

SHT. S-02 OF S-08

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 F.A.P. ROUTE 343
 SECTION 70HB-R-1 COOK COUNTY
 DRILLED SOLDIER PILE WALL
 STATION 0+072.591 TO 0+179.500
 STRUCTURE NO. 016-W979
 GENERAL NOTES, B.O.M., & INDEX OF SHEETS
 DESIGNED: BTO DRAWN: BTO
 DATE: 10/06 CHECKED: JAN CHECKED: JAN

STV Incorporated
 Engineers/Architects/Planners/Construction Managers
 206 W. Monroe Street, Suite 1950
 Chicago, IL 60606-3013
 TEL: 312-553-4655 FAX: 312-553-0661

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	215
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62897				

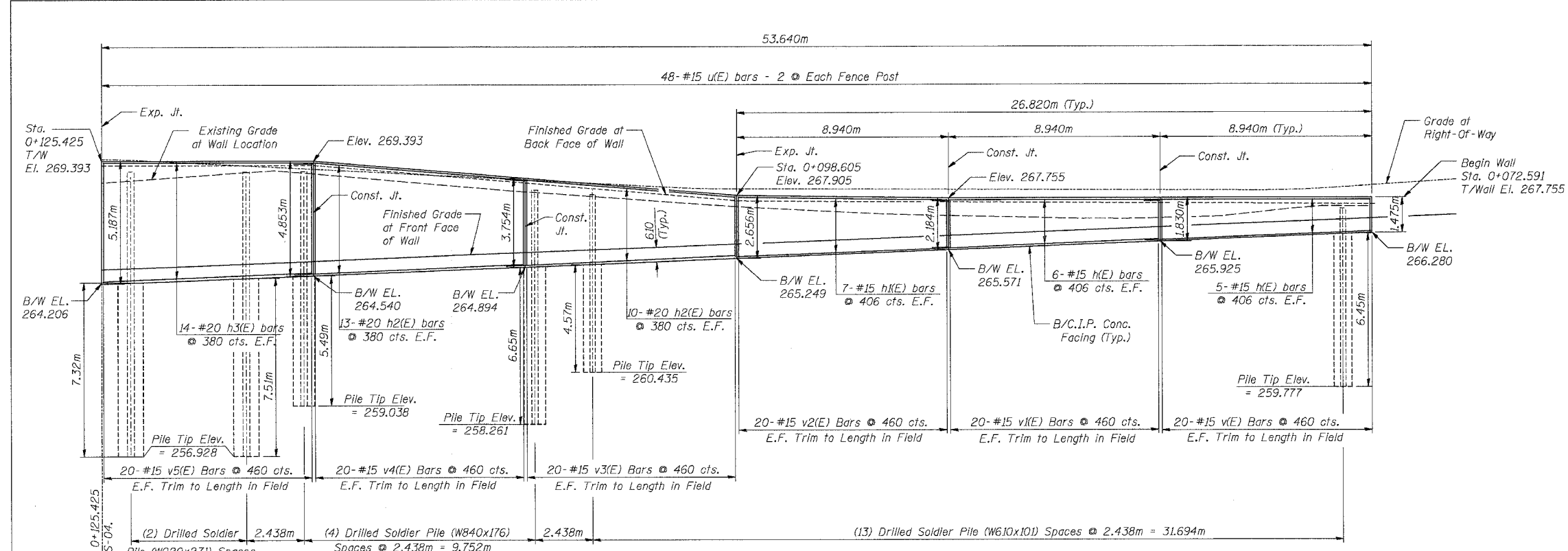
PILE TABLE

Pile	Station*	Offset*	Top of Pile	Pile Tip
W610x101	0+073.768	4.381	267.305	259.777
W610x101	0+076.014	3.967	267.305	259.777
W610x101	0+078.287	3.644	267.305	259.777
W610x101	0+080.579	3.412	267.305	259.777
W610x101	0+082.885	3.274	267.305	259.777
W610x101	0+085.201	3.230	267.305	259.777
W610x101	0+087.639	3.230	267.305	259.777
W610x101	0+090.077	3.230	267.312	259.784
W610x101	0+092.515	3.230	267.353	259.825
W610x101	0+094.953	3.230	267.394	259.866
W610x101	0+097.391	3.230	267.435	259.907
W610x101	0+099.829	3.230	267.556	260.029
W610x101	0+102.267	3.230	267.759	260.232
W610x101	0+104.705	3.230	267.962	260.435
W840x176	0+107.143	3.230	268.165	258.261
W840x176	0+109.581	3.230	268.368	258.464
W840x176	0+112.019	3.230	268.571	258.667
W840x176	0+114.457	3.230	268.774	258.869
W840x176	0+116.895	3.230	268.943	259.038
W920x271	0+119.333	3.230	268.943	256.928
W920x271	0+121.771	3.230	268.943	256.928
W920x271	0+124.209	3.230	268.943	256.928
W920x271	0+126.647	3.230	268.803	256.788
W920x271	0+129.085	3.230	268.524	256.509
W920x271	0+131.523	3.230	268.245	256.230
W920x271	0+133.961	3.230	267.966	255.950
W920x271	0+136.399	3.230	267.667	255.651
W920x271	0+138.837	3.230	267.348	255.333
W760x147	0+141.275	3.230	267.029	257.620
W760x147	0+143.713	3.230	266.710	257.301
W760x147	0+146.151	3.230	266.391	256.982
W760x147	0+148.589	3.230	266.072	256.664
W760x147	0+151.027	3.230	265.753	256.345
W610x82	0+153.508	3.230	265.505	258.889
W610x82	0+155.988	3.230	265.331	258.715
W610x82	0+158.469	3.230	265.156	258.540
W610x82	0+160.951	3.230	264.982	258.366
W610x82	0+163.435	3.230	264.807	258.191
W610x82	0+165.921	3.230	264.632	258.016
W610x82	0+168.410	3.230	264.457	257.841
W610x82	0+170.901	3.230	264.282	257.666
W610x82	0+173.396	3.230	264.106	257.580
W610x82	0+175.895	3.230	264.096	257.480
W610x82	0+178.398	3.230	263.946	257.330

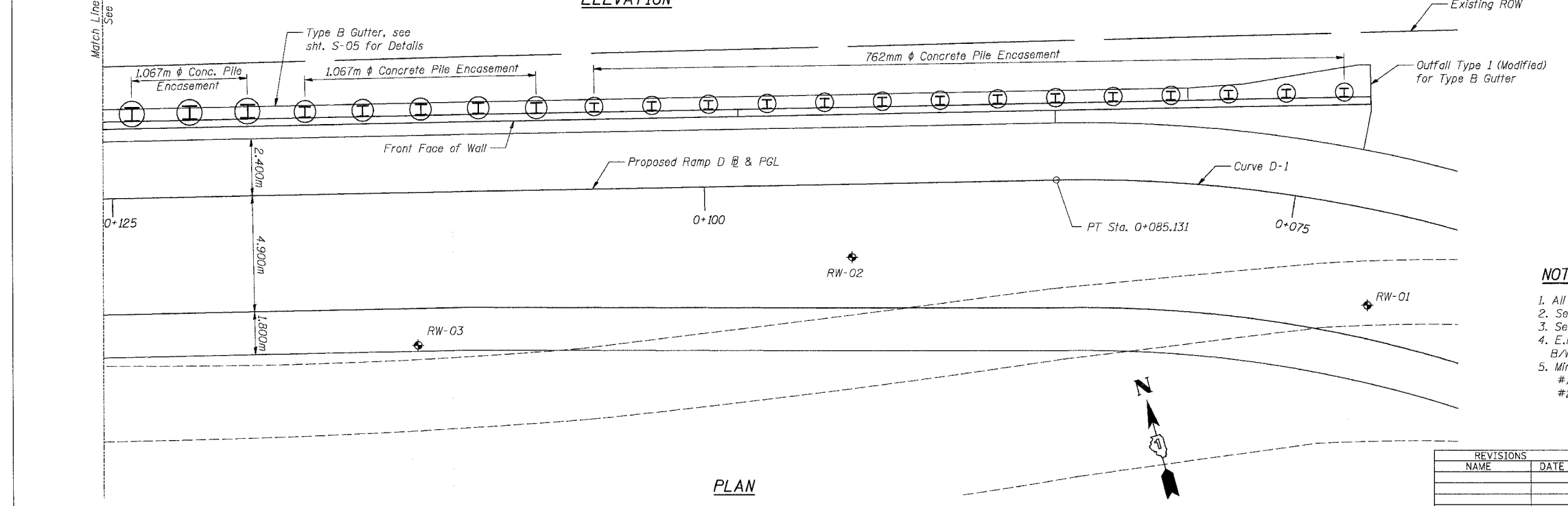
* Taken at Back Face of CIP Concrete Facing

NOTES:

- All dimensions in millimeters (mm) except as noted.
- See Sht. S-05 for typical wall sections and details.
- See Sht. S-06 for Fence details.
- E.F. = Each Face
B/W = Bottom of Wall
- Min. Bar Lap
#15 = 640
#20 = 790



ELEVATION



PLAN

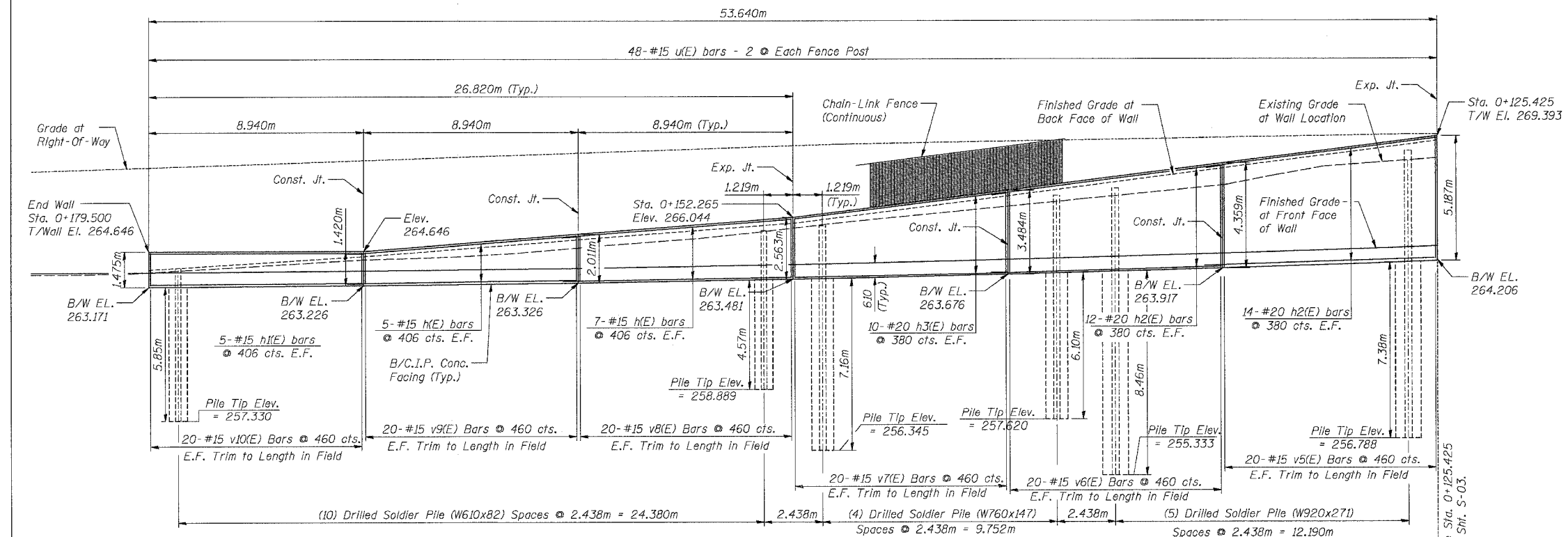
REVISIONS	
NAME	DATE



ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 F.A.P. ROUTE 343
 SECTION 70HB-R-1 COOK COUNTY
 DRILLED SOLDIER PILE WALL
 STATION 0+072.591 TO 0+179.500
 STRUCTURE NO. 016-W979
 SOLDIER PILE WALL PLAN & ELEVATION
 STA. 0+072.591 TO STA. 0+125.425
 DESIGNED: BTO DRAWN: BTO
 DATE: 10/06 CHECKED: JAN CHECKED: JAN

SHT. S-03 OF S-08

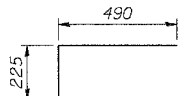
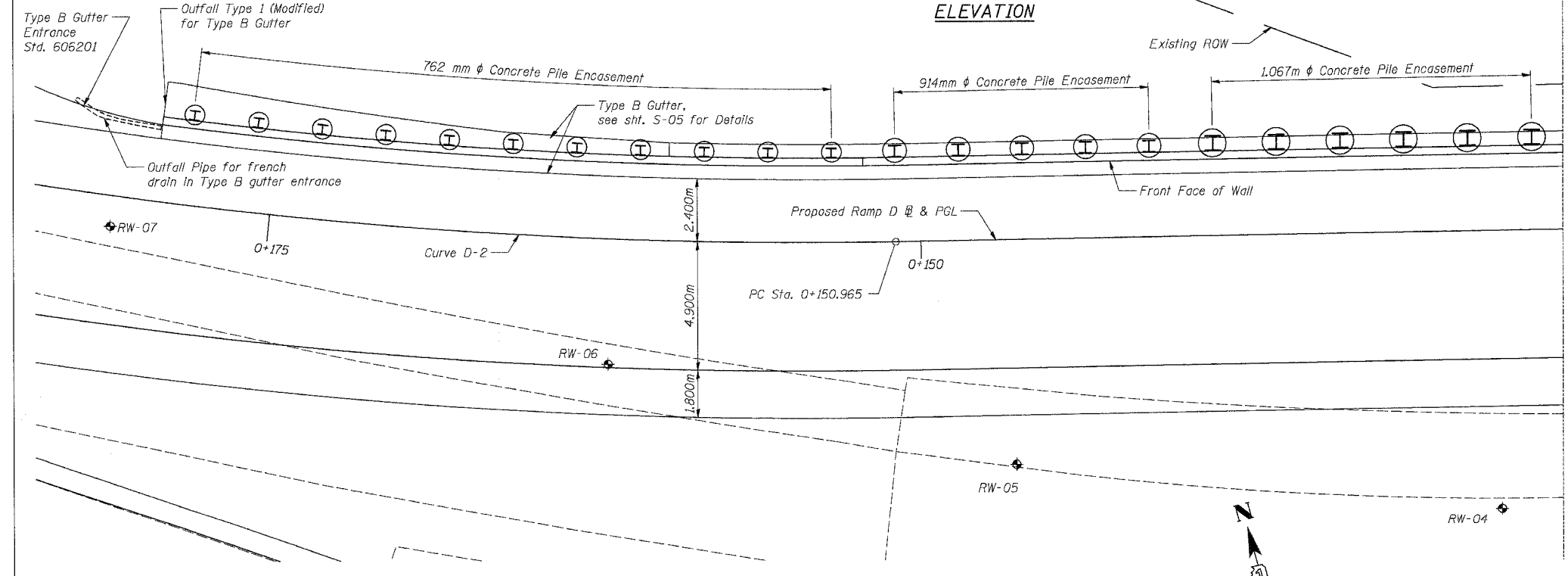
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	216
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62897				



BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h(E)	46	15	9.600	—
h1(E)	24	15	8.840	—
h2(E)	98	20	9.800	—
h3(E)	48	20	8.840	—
v(E)	40	15	1.740	—
v1(E)	40	15	2.090	—
v2(E)	40	15	2.580	—
v3(E)	40	15	3.670	—
v4(E)	40	15	4.770	—
v5(E)	80	15	5.110	—
v6(E)	40	15	4.280	—
v7(E)	40	15	3.400	—
v8(E)	40	15	2.480	—
v9(E)	40	15	1.930	—
v10(E)	40	15	1.390	—
u(E)	96	15	1.210	□
Reinforcement Bars, Epoxy Coated			Kg	6,340
Concrete Structures			CU M	97.1

ELEVATION



BAR u(E)

NOTES:

- All dimensions in millimeters (mm) except as noted.
- Reinforcement bars designated (E) shall be epoxy coated.
- See Sht. S-05 for typical wall sections and details.
- See Sht. S-06 for Fence details.
- E.F. = Each Face
B/W = Bottom of Wall
- Min. Bar Lap
#15 = 640
#20 = 790

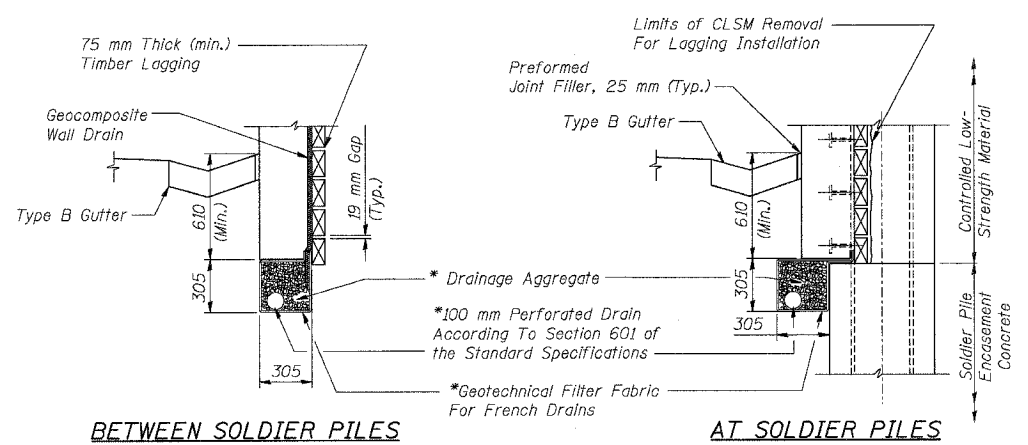
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 F.A.P. ROUTE 343
 SECTION 70HB-R-1 COOK COUNTY
 DRILLED SOLDIER PILE WALL
 STATION 0+072.591 TO 0+179.500
 STRUCTURE NO. 016-W979
 SOLDIER PILE WALL PLAN & ELEVATION
 STA. 0+125.425 TO STA. 0+179.500
 DESIGNED: BTO DRAWN: BTO
 DATE: 10/06 CHECKED: JAN CHECKED: JAN



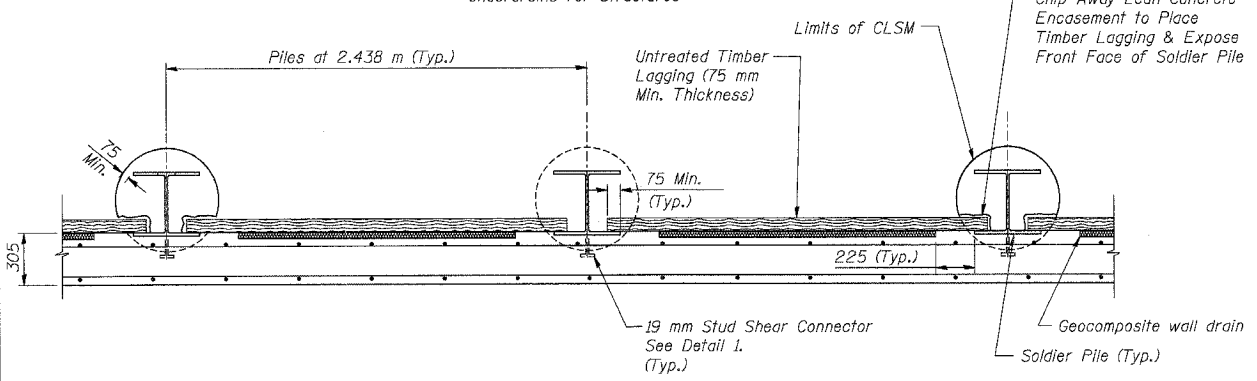
SHT. S-04 OF S-08

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62897				

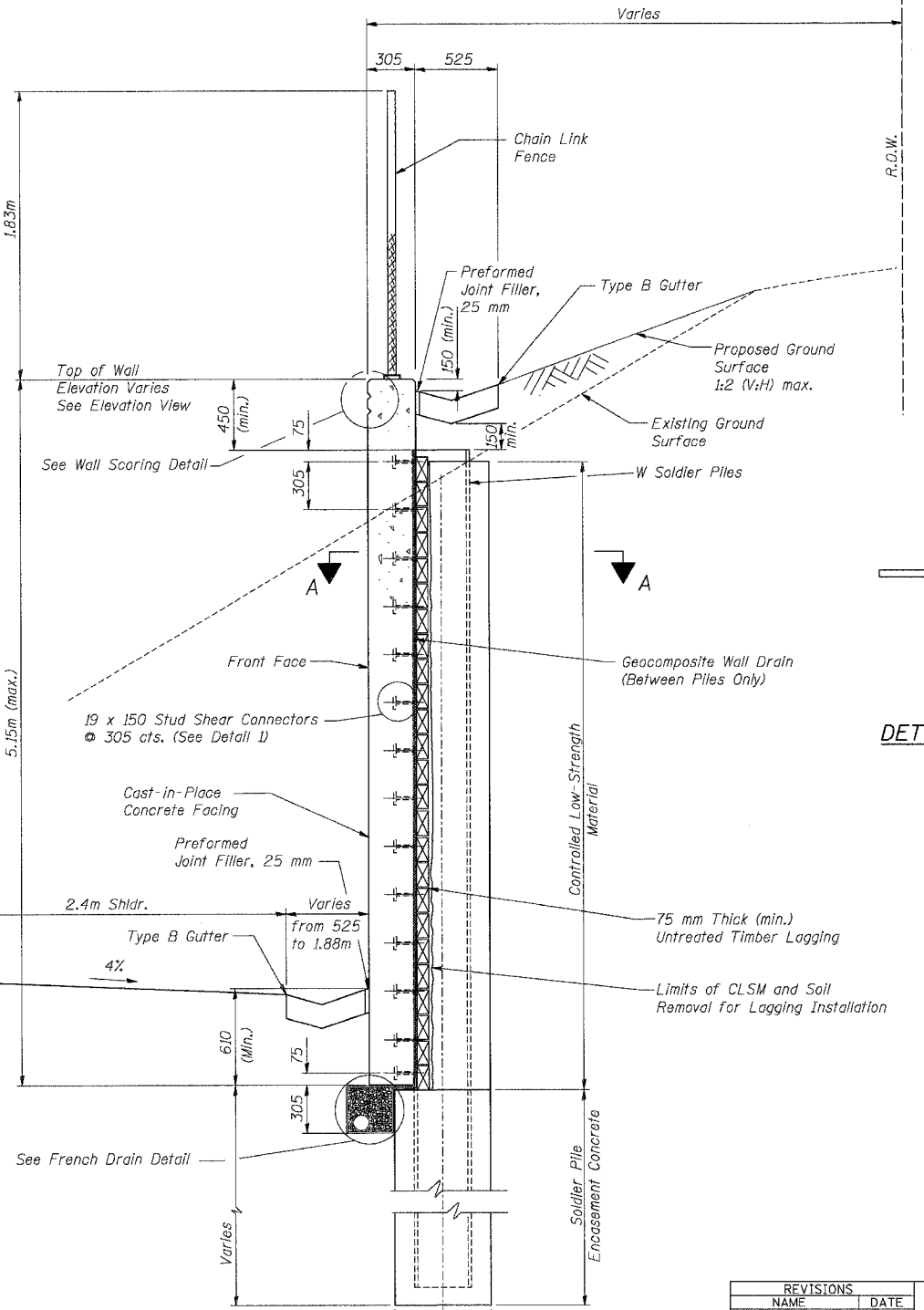
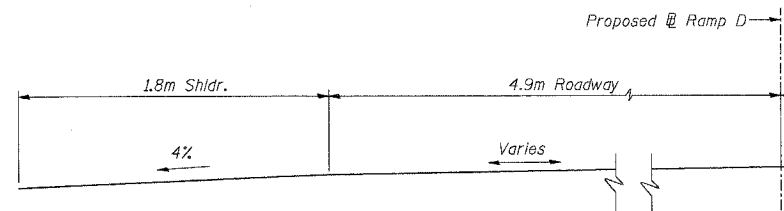


FRENCH DRAIN DETAIL

* Included in the cost of "Pipe Underdrains For Structures"

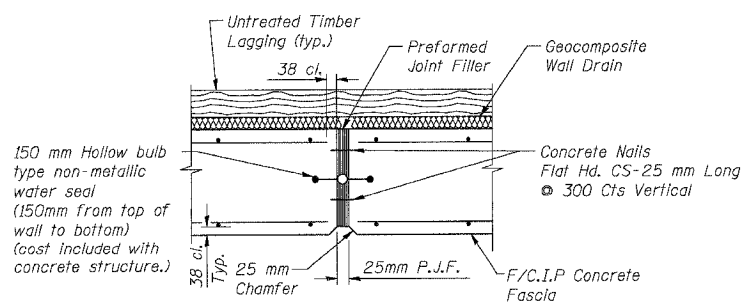


SECTION A-A

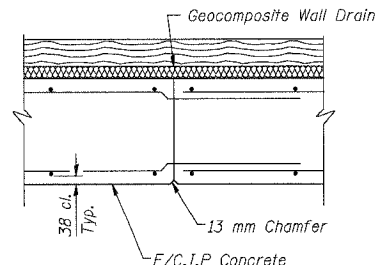


Contractor shall use Caution not to Overexcavate in the Placement of Timber Lagging

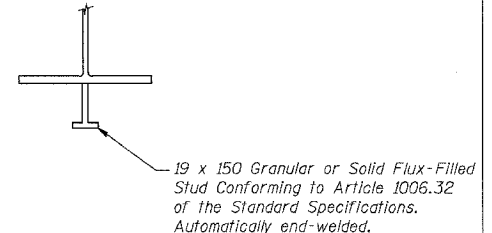
TYPICAL WALL SECTION AT SOLDIER PILE



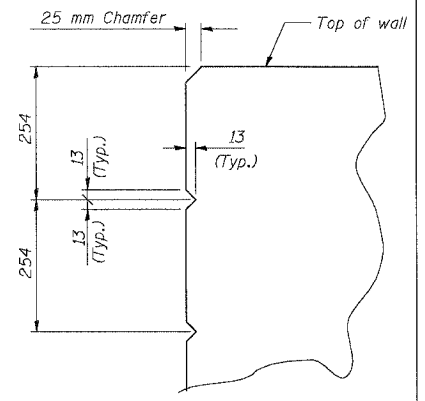
EXPANSION JOINT DETAIL



CONSTRUCTION JOINT DETAIL



DETAIL I



WALL SCORING DETAIL

SHT. S-05 OF S-08

REVISIONS	
NAME	DATE



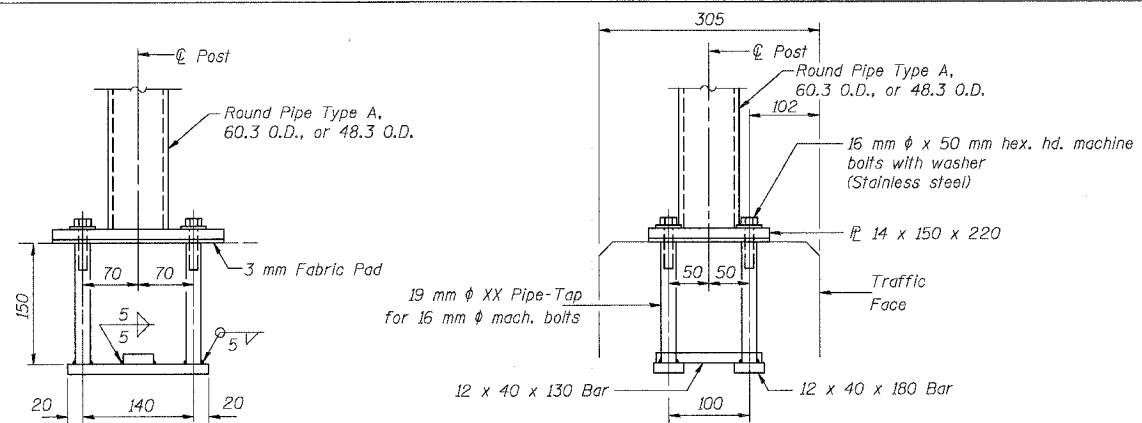
ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 F.A.P. ROUTE 343
 SECTION 70HB-R-1 COOK COUNTY
 DRILLED SOLDIER PILE WALL
 STATION 0+072.591 TO 0+179.500
 STRUCTURE NO. 016-W979
 SOLDIER PILE WALL DETAILS
 DESIGNED: BTO DRAWN: BTO
 DATE: 10/06 CHECKED: JAN CHECKED: JAN

10/13/2006 2:38:01 PM

F.A.P. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343 70HB-R-1	COOK	283	218
STA. TO STA.	ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.	CONTRACT NO. 62897		

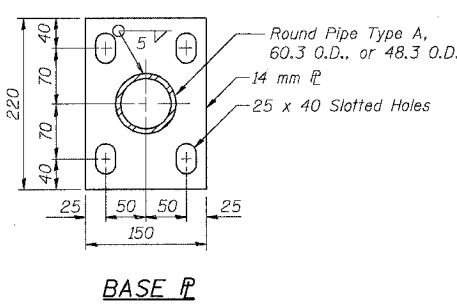
NOTES

- Posts, chain link fence, and attaching hardware shall be according to Section 1006 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per meter for Chain Link Fence, 1.8m Attached to Structure.
- The 9 gauge (3.759 mm) fabric ties shall be according to Article 1006.27(d) of the Standard Specifications.
- Installation of the chain link fabric shall be according to Section 664 of the Standard Specifications.
- Stretcher bars shall be used at all end posts.
- All other steel shapes and plates shall conform to the requirements of AASHTO M 270M Grade 250.
- The chain link fabric shall be placed along the south side of the posts.
- If the option of drilling and epoxy grouting the anchor rods is chosen, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with premeasured amounts of the adhesive chemical.
- Space reinforcement to miss anchor rods.
- All dimensions are in millimeters (mm) except as noted.
- All posts, railings, splices, anchor devices, and bent plates shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. All bolts, nuts, washers and anchor rods shall be galvanized according to AASHTO M 232 except stainless steel bolts as noted.
- Vent holes for galvanizing shall be placed in the posts and rails at locations that will not allow the accumulation of moisture in the members.
- The chain link fabric shall conform to the requirements of Article 1006.27(a)(1)a, b or c of the Standard Specifications.

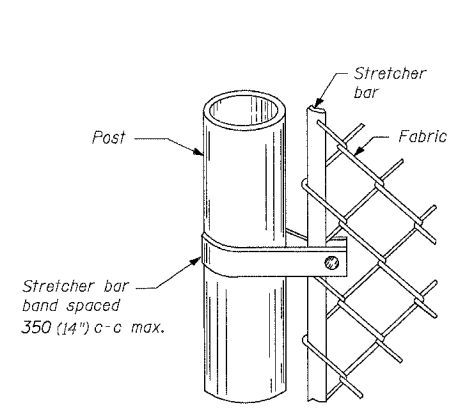


ANCHOR BOLT DETAILS

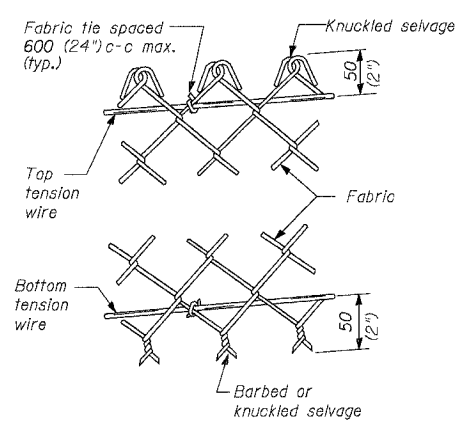
(In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting M16 anchor rods. Embedment shall be according to the manufacturer's specifications.)



BASE PL



METHOD OF FASTENING STRETCHER BAR TO POST

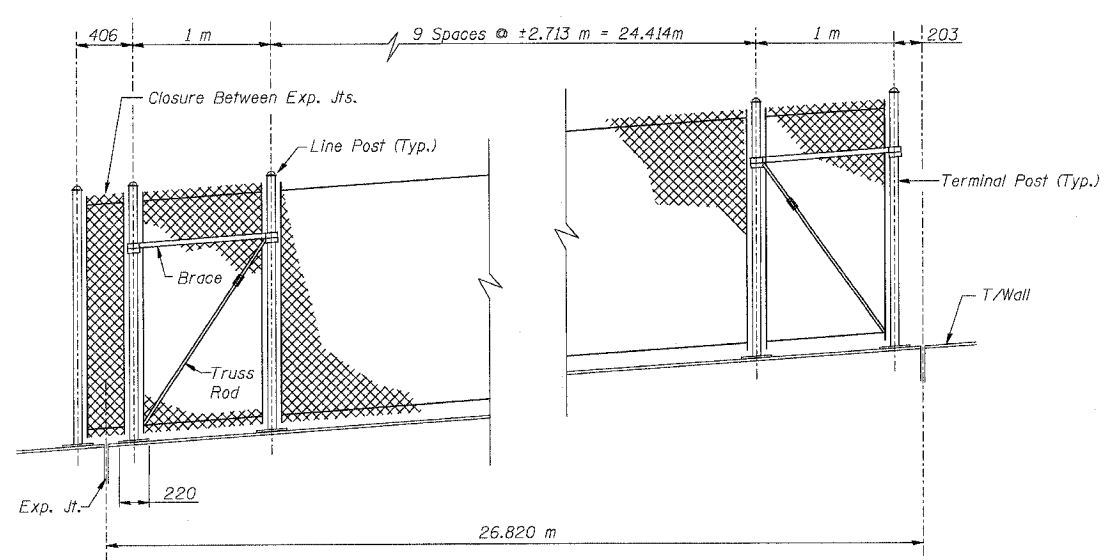


METHOD OF TYING FABRIC TO TENSION WIRES

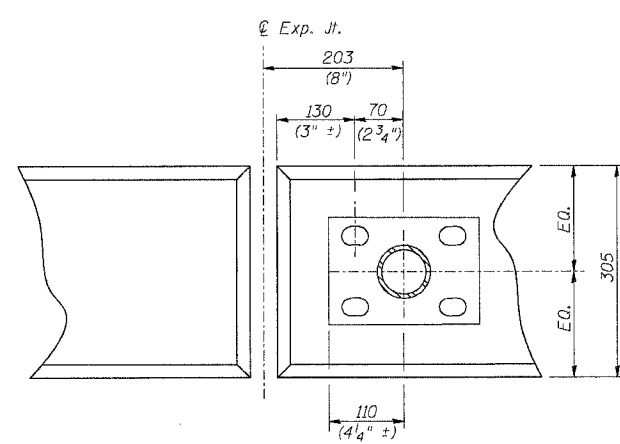
LINE POST	
Section	kg/m (lbs./ft.)
Pipe Type A 48.3 O.D. (1.90")	4.05 (2.72)

TERMINAL POST	
Section	kg/m (lbs./ft.)
Pipe Type A 60.3 O.D. (2.375")	5.43 (3.65)

HORIZONTAL BRACES	
Section	kg/m (lbs./ft.)
Pipe Type A 42.2 O.D. (1.66")	3.38 (2.27)
Pipe Type B 42.2 O.D. (1.66")	



TYPICAL CHAIN LINK FENCE BETWEEN EXPANSION JOINTS



ANCHOR PLATE PLAN @ EXPANSION JOINT

BILL OF MATERIAL

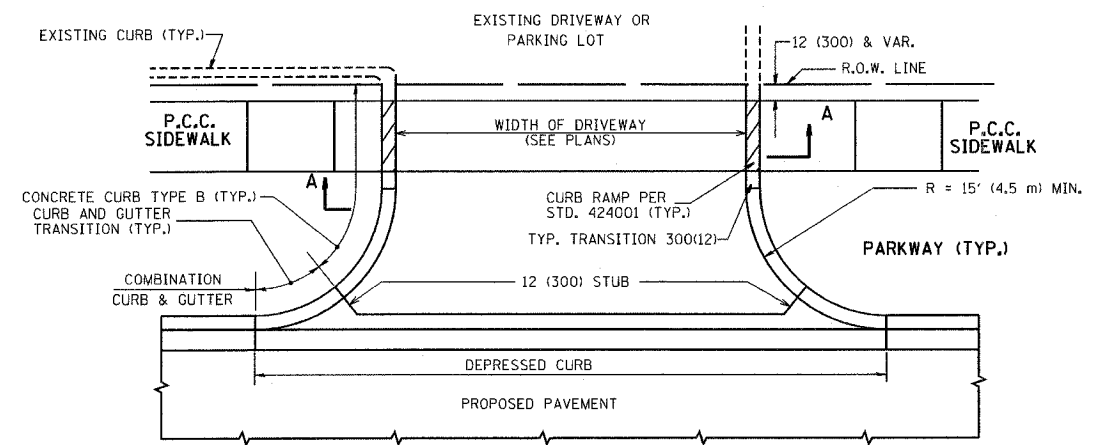
Item	Unit	Quantity
Chain Link Fence, 1.8 Meter Attached to Structure	m	107

REVISIONS	
NAME	DATE

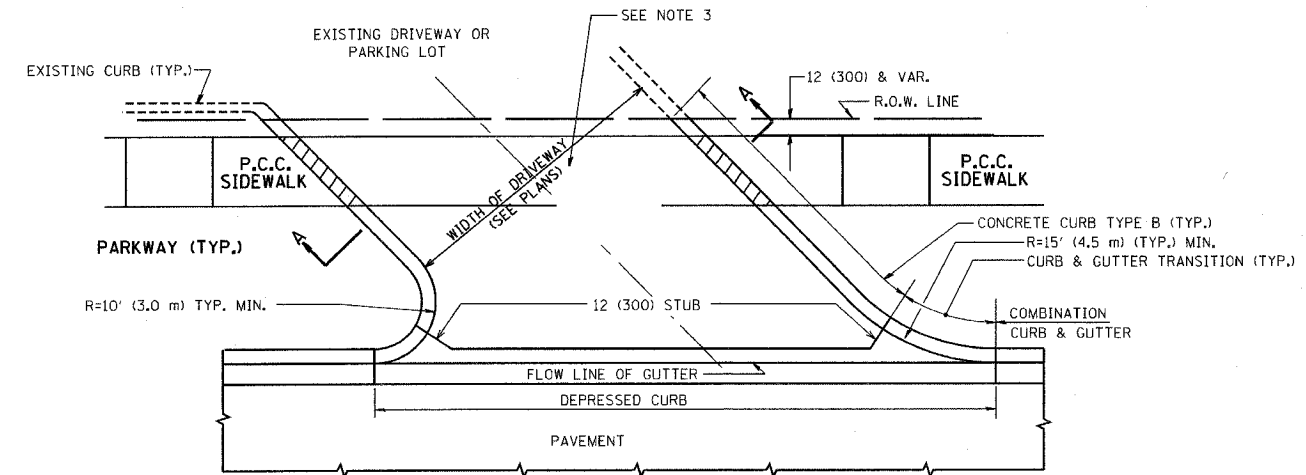
SHT. S-06 OF S-08
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 68 F.A.P. ROUTE 343
 SECTION 70HB-R-1 COOK COUNTY
 DRILLED SOLDIER PILE WALL
 STATION 0+072.591 TO 0+179.500
 STRUCTURE NO. 016-W979
 CHAIN LINK FENCE DETAILS
 DESIGNED: BTO DRAWN: BTO
 DATE: 10/06 CHECKED: JAN CHECKED: JAN

STV Incorporated
 Engineer/Architect/Planner/Construction Manager
 200 W. Madison Street, Suite 1650
 Chicago, IL 60606-3011
 312.551-6655, FAX 312.551-6661

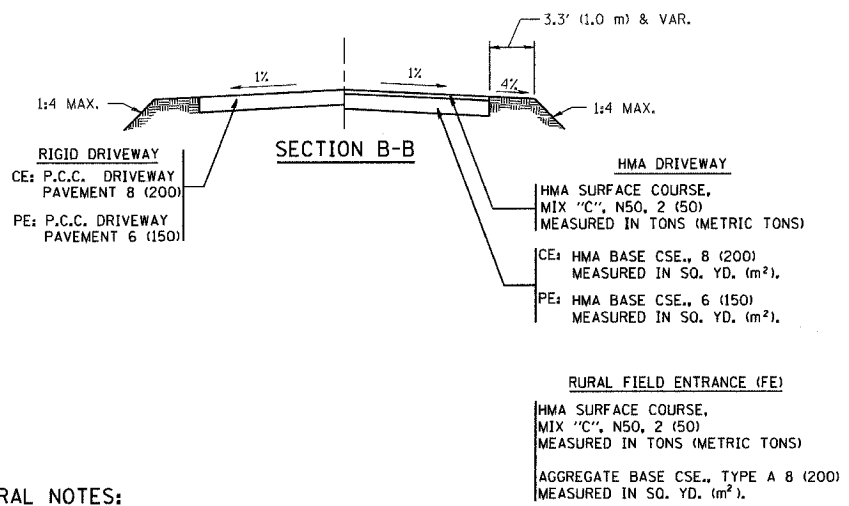
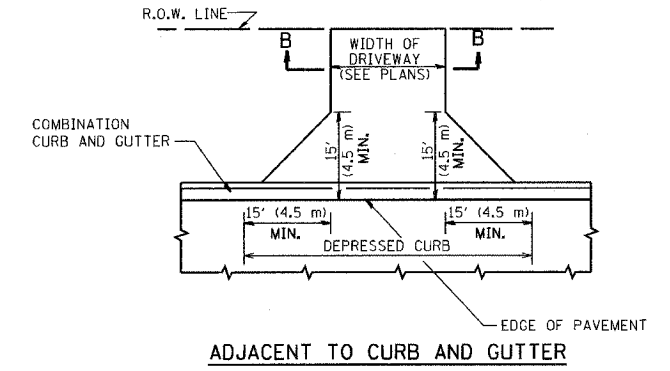
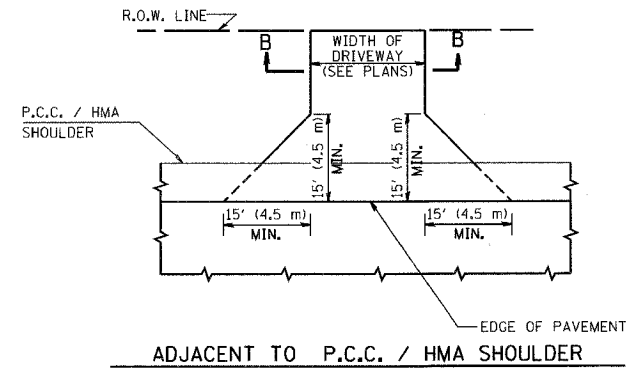
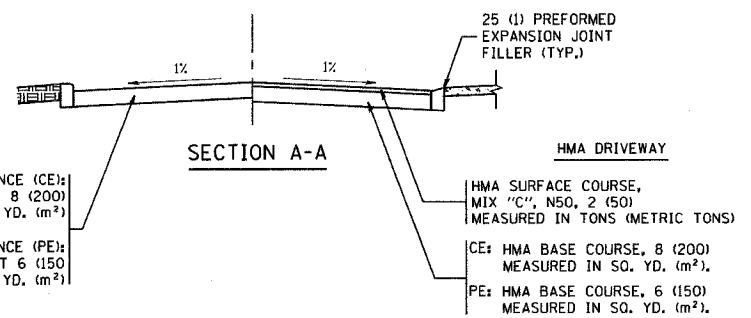
CONTRACT NO. 62719				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3034N-1	COOK	283	221
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE 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.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

REVISIONS	NAME	DATE
	P. LOFLEUR	04-15-03
	R. SHAH	11-04-95
	J. POLLASTRINI	08-12-96
	J. POLLASTRINI	12-14-96
	A. ABBAS	03-21-97
	T. HOLTZ	04-08-97
	M. GOMEZ	04-06-01
	R. BORO	01-01-07

ILLINOIS DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS

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

SCALE: VERT. HORIZ. PLOT DATE: 10/31/2006

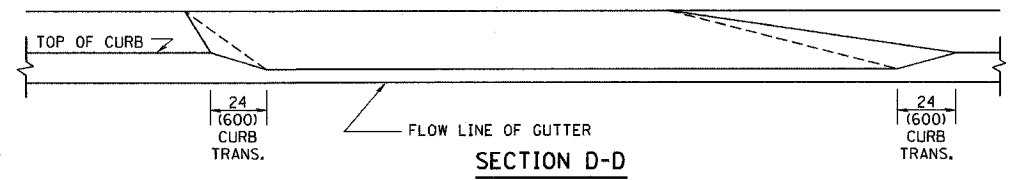
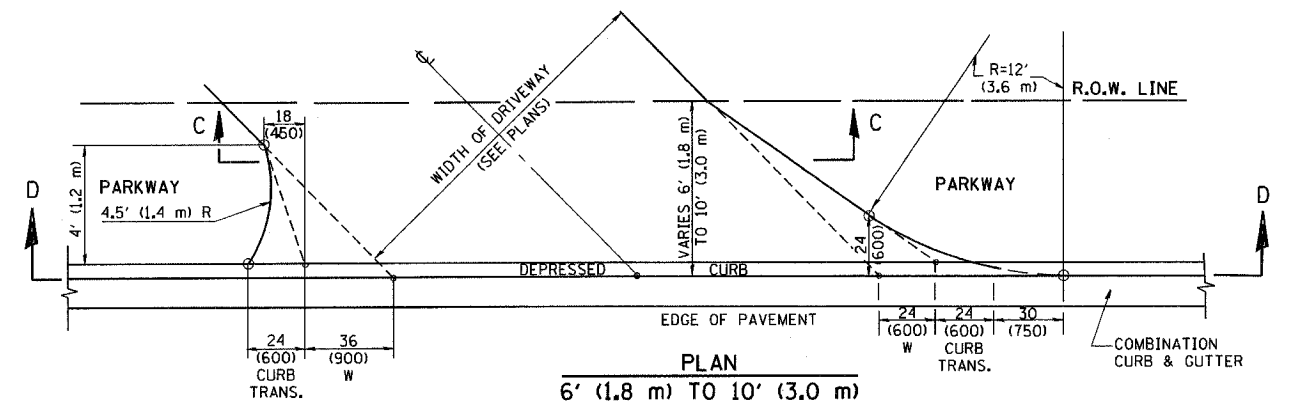
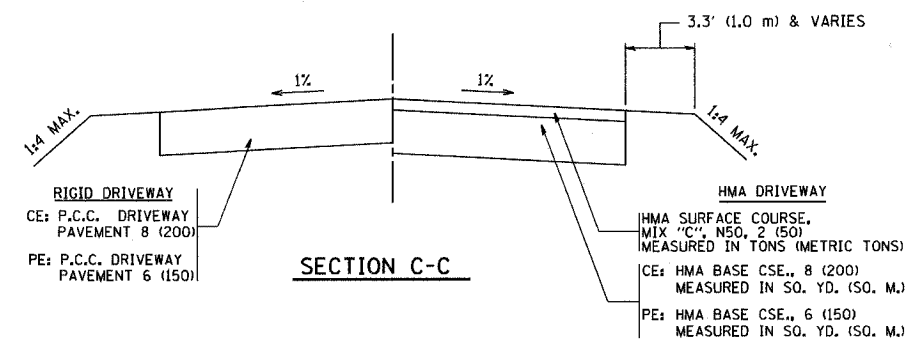
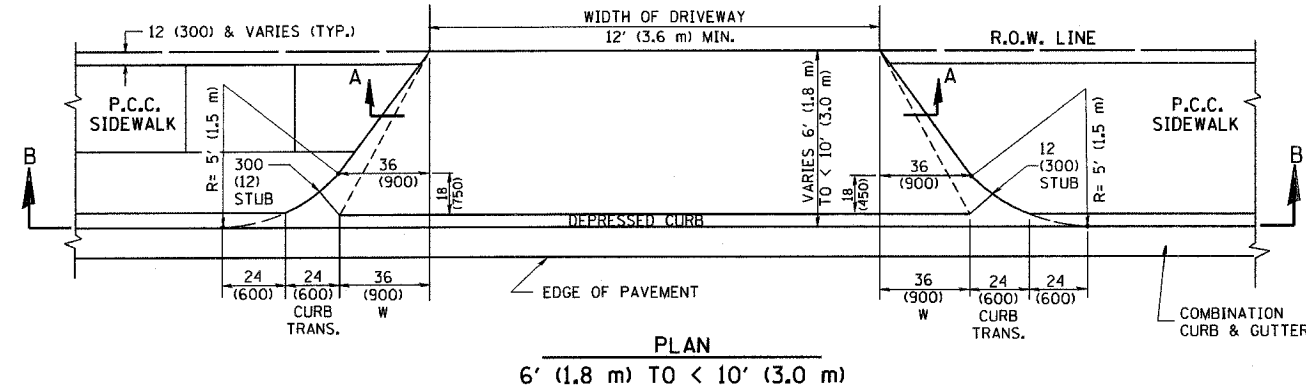
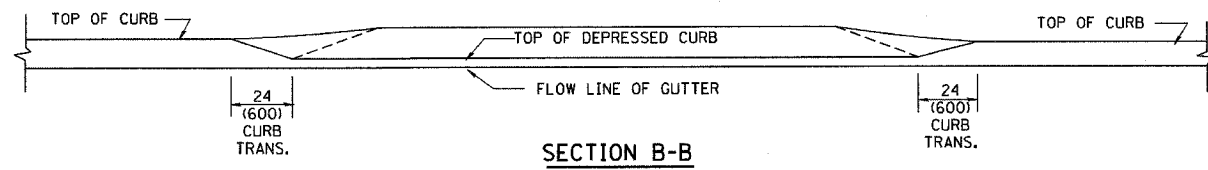
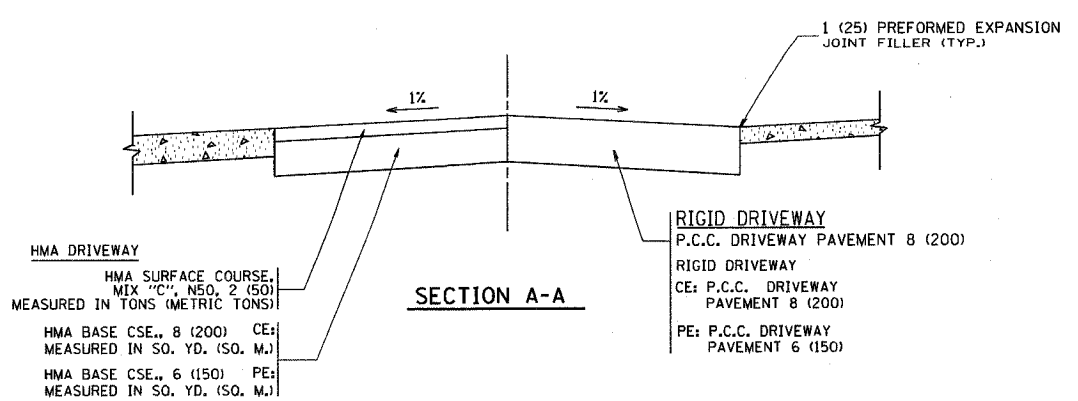
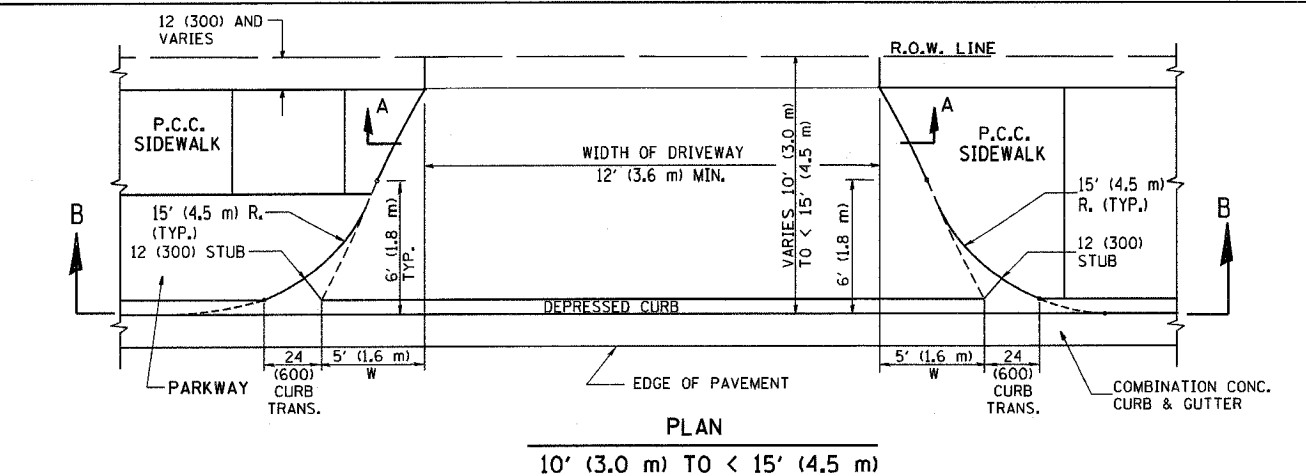
DRAWN BY CHECKED BY

BDD156-07 (BD-01) REVISION DATE: 01/01/07

PLOT DATE = 10/31/2006
 PLOT SCALE = 5/8" = 1'-0"
 USER NAME = jaygo

1 - ADDED SHEET 1-3-07

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	222
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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).

1 - ADDED SHEET 1-3-07

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)

REVISIONS	
NAME	DATE
R. SHAH	11/06/95
J. POLLASTRINI	08/12/96
J. POLLASTRINI	12/14/96
A. ABBAS	03/21/97
T. HOLTZ	04/08/97
M. GOMEZ	04/06/01
P. L'OFLEUR	04/15/03
R. BORO	01/01/07

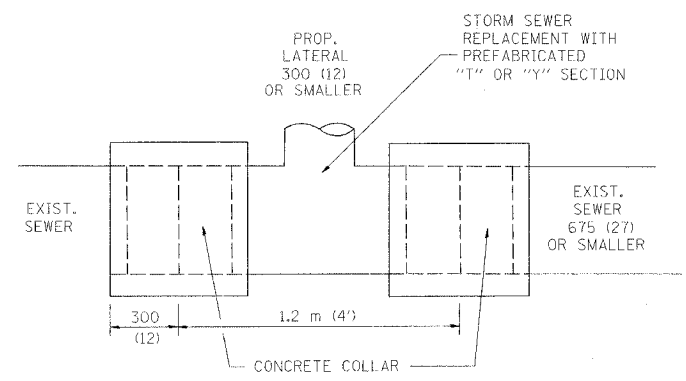
SCALE: VERT. HORIZ.
DATE PLOTTED: 11/1/2006

DRAWN BY
CHECKED BY

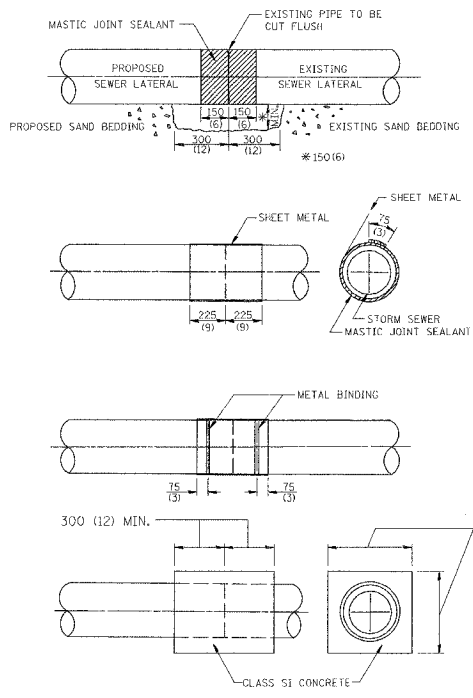
BD400-02 (BD-02)
REVISION DATE: 01/01/07

PLOT DATE = 11/1/2006
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SCALE = 5/8"=1'-0"
USER NAME = j.gagnier

F.A. R/L	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
			283	223
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



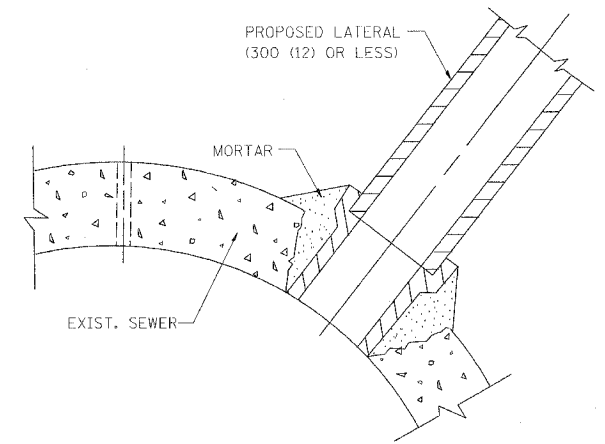
DETAIL "A"
LATERAL CONNECTION TO EXISTING SEWER OF 675 (27) OR SMALLER



DETAIL "B"
CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 150 (6) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 300 x 150 (12 x 6) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 450 (18) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 75 (3) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 225 (9) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 75 (3) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"
PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 750 (30) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 675 (27) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 750 (30) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

1 - ADDED SHEET 1-3-07

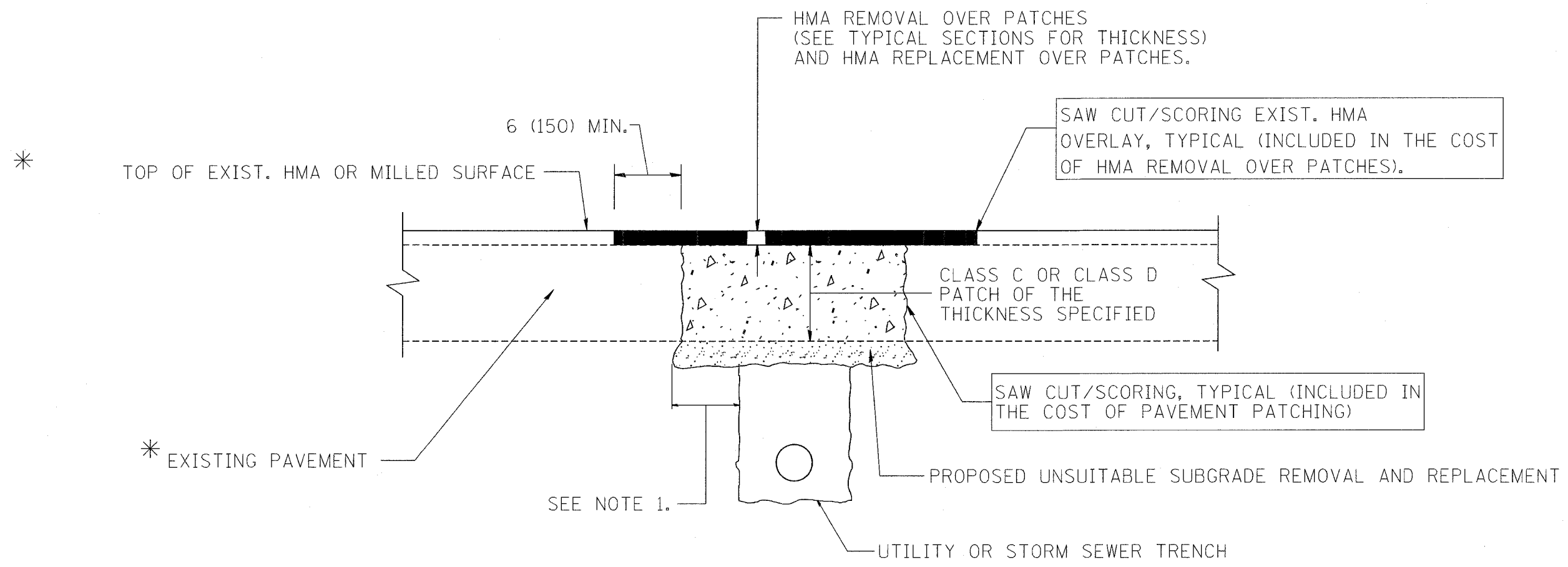
REVISIONS	
NAME	DATE
M. DE YONG	07/25/90
M. DE YONG	02/05/92
M. DE YONG	05/08/92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	06/12/96

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

SCALE: NONE
DATE 10/18/2002

DRAWN BY CADD
CHECKED BY

BD500-01 (BD-7)
REVISION DATE: 06/12/96



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

1 - ADDED SHEET 1-3-07 ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

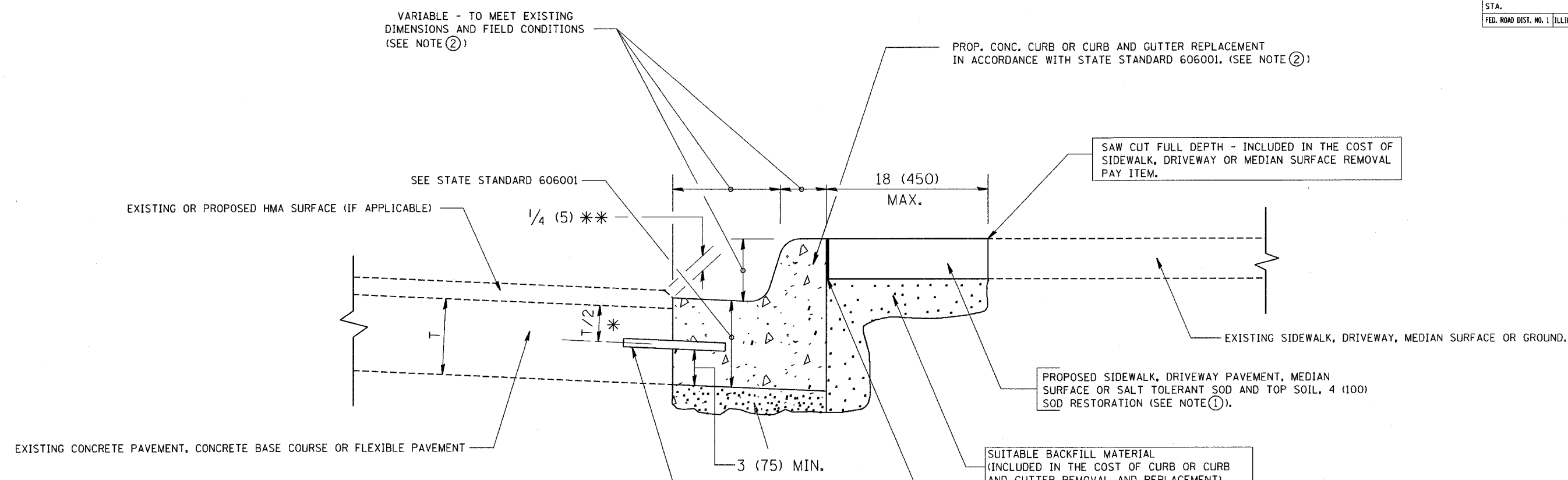
REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
 SCALE: VERT. NONE
 HORIZ. 1" = 10'
 DRAWN BY
 CHECKED BY
 PLOT DATE: 10/31/2006

BD400-04 (BD-22)
 REVISION DATE: 01/01/07

PLOT DATE = 10/31/2006
 FILE NAME = K:\kshah\bd400-04.dgn
 USER = R. SHAH
 USER HOME = R:\rshah

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224A
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



- * 3 (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
 - * * IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.
- NOTE:
- ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
 - ② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
 - ③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
 - ④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
 - ⑤ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
 - ⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
 - ⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

SALT TOLERANT SOD AND TOP SOIL, 4 (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4 (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4 (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24 (600) LONG AT 24 (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE 3).

BASIS OF PAYMENT:
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

1 - ADDED SHEET 1-3-07

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

REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/98
R. SHAH	03/02/98
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

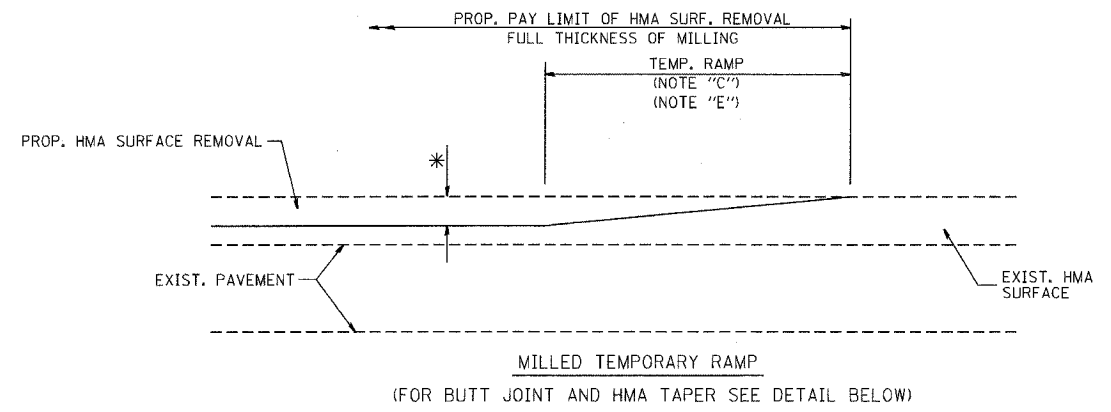
CURB OR
GUTTER
REMOVAL AND REPLACEMENT

SCALE: VERT. NONE
HORIZ. 1" = 10'
DRAWN BY
CHECKED BY

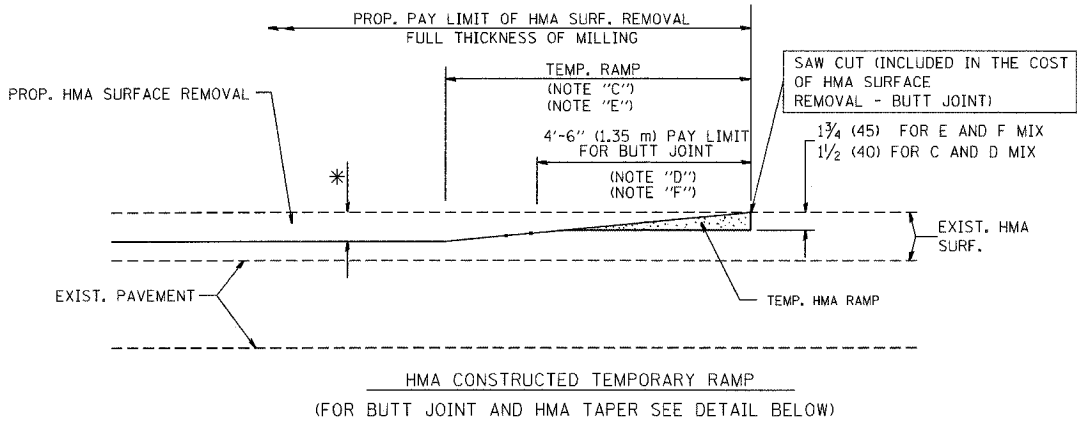
BDG00-06 (BD-24)
REVISION DATE: 01/01/07

PLOT DATE = 10/31/2006
 PLOT SCALE = 80.000 / In.
 USER NAME = legns

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224B
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

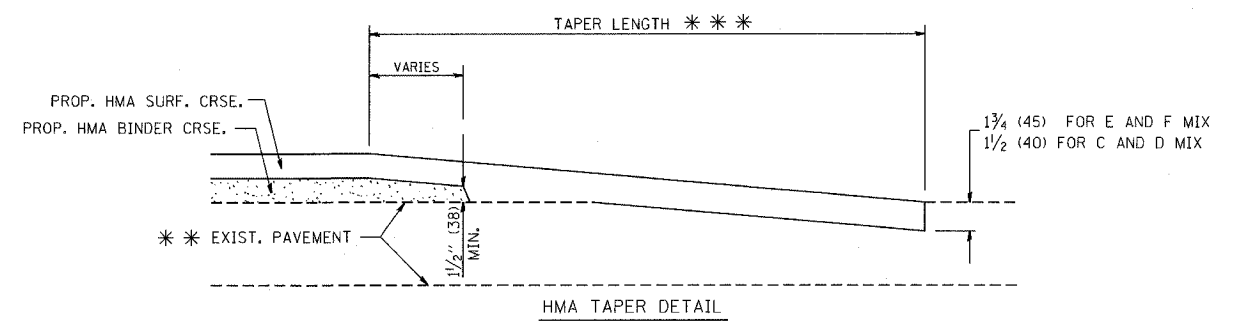
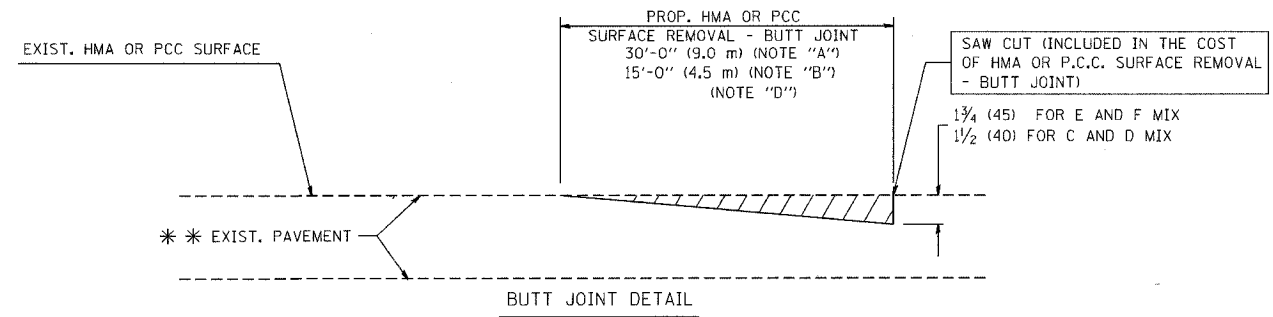
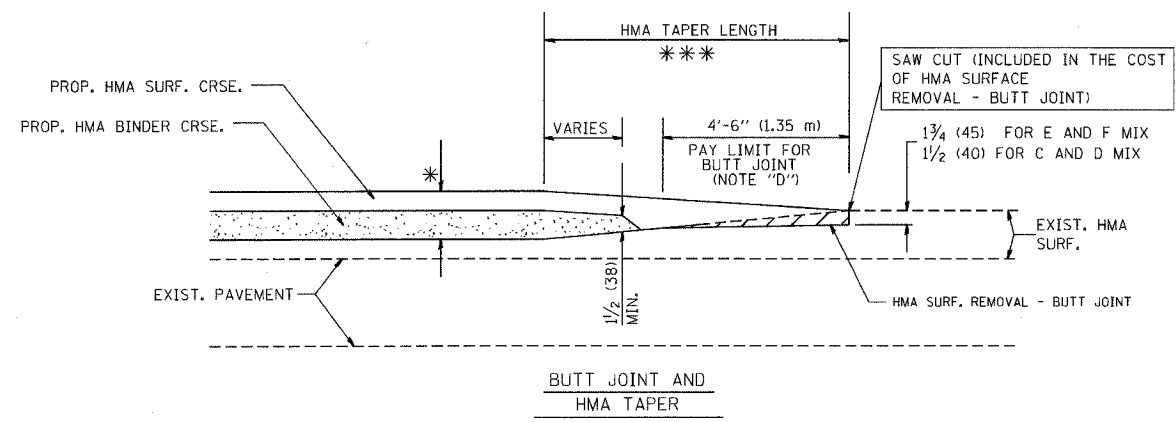


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



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")

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

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".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. NONE
HORIZ. 1" = 20'

PLOT DATE: 10/31/2006

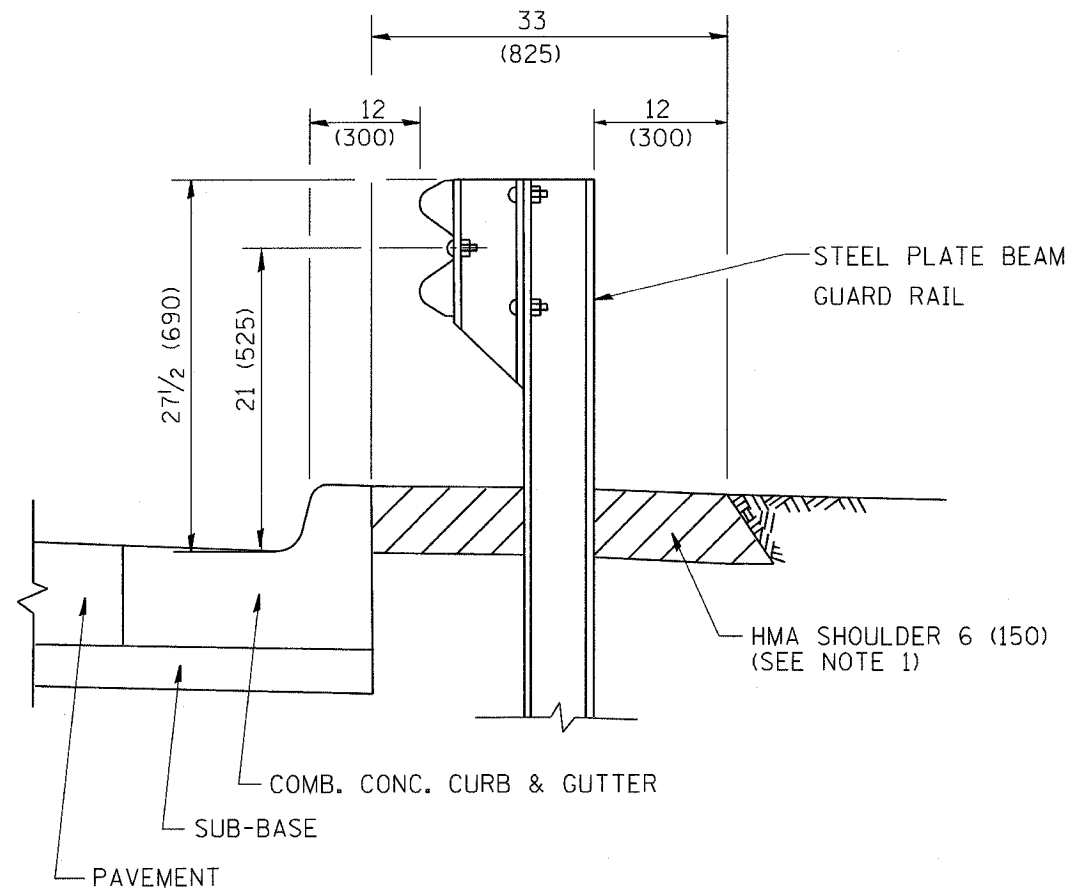
DRAWN BY
CHECKED BY

BD400-05 (V1-BD32)
REVISION DATE: 01/01/07

PLOT DATE = 10/31/2006
PLOT SCALE = 1/4" = 1'-0"
USER NAME = Regan

1 - ADDED SHEET 1-3-07

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224C
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

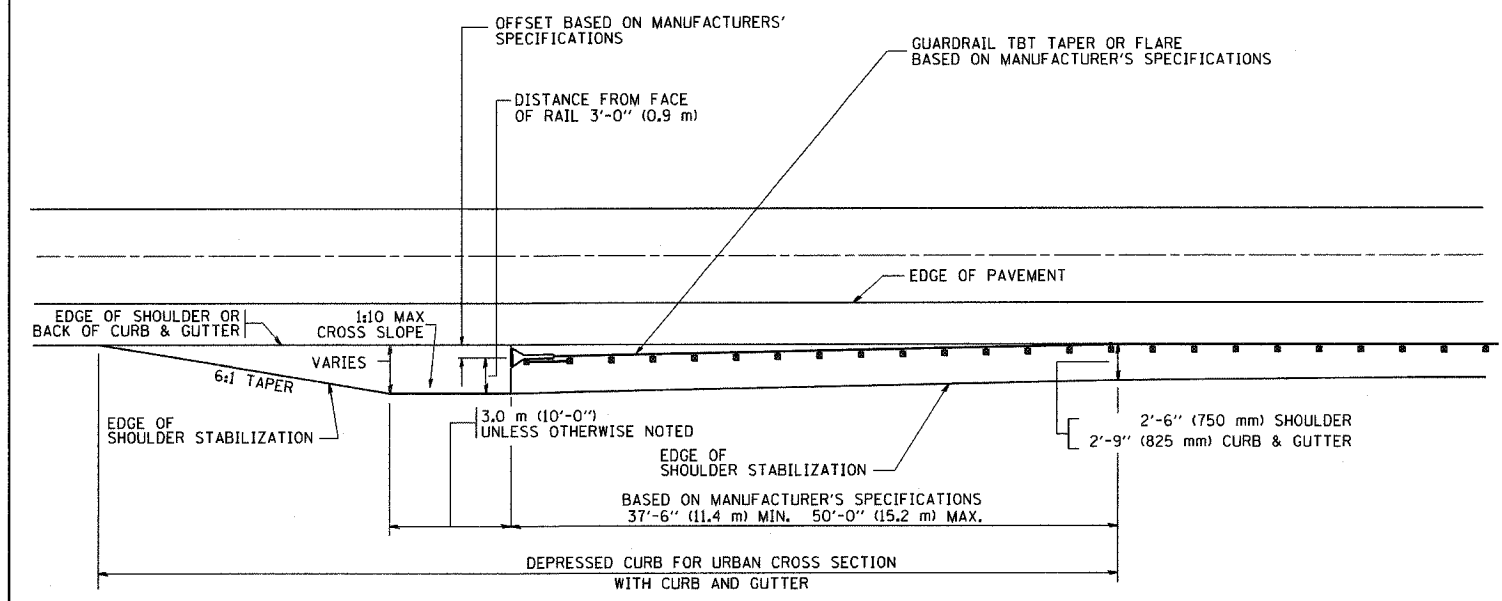


- NOTES: 1. THE HMA SHOULDER SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL
2. GUARD RAIL MAY BE PLACED AT THE BACK OF CURB WHEN DIRECTED BY THE ENGINEER.

BASIS OF PAYMENT: HMA SHOULDER 6 (150) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDER 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER
 [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



STABILIZATION AT TBT TY. 1 SPL.

TBT = TRAFFIC BARRIER TERMINAL
 ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

ADDED SHEET 1-3-07

REVISIONS	
NAME	DATE
M. DE YONG	09-22-90
M. DE YONG	07-14-92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	02/23/95
A. ABBAS	03/21/97
E. GOMEZ	08/28/00
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

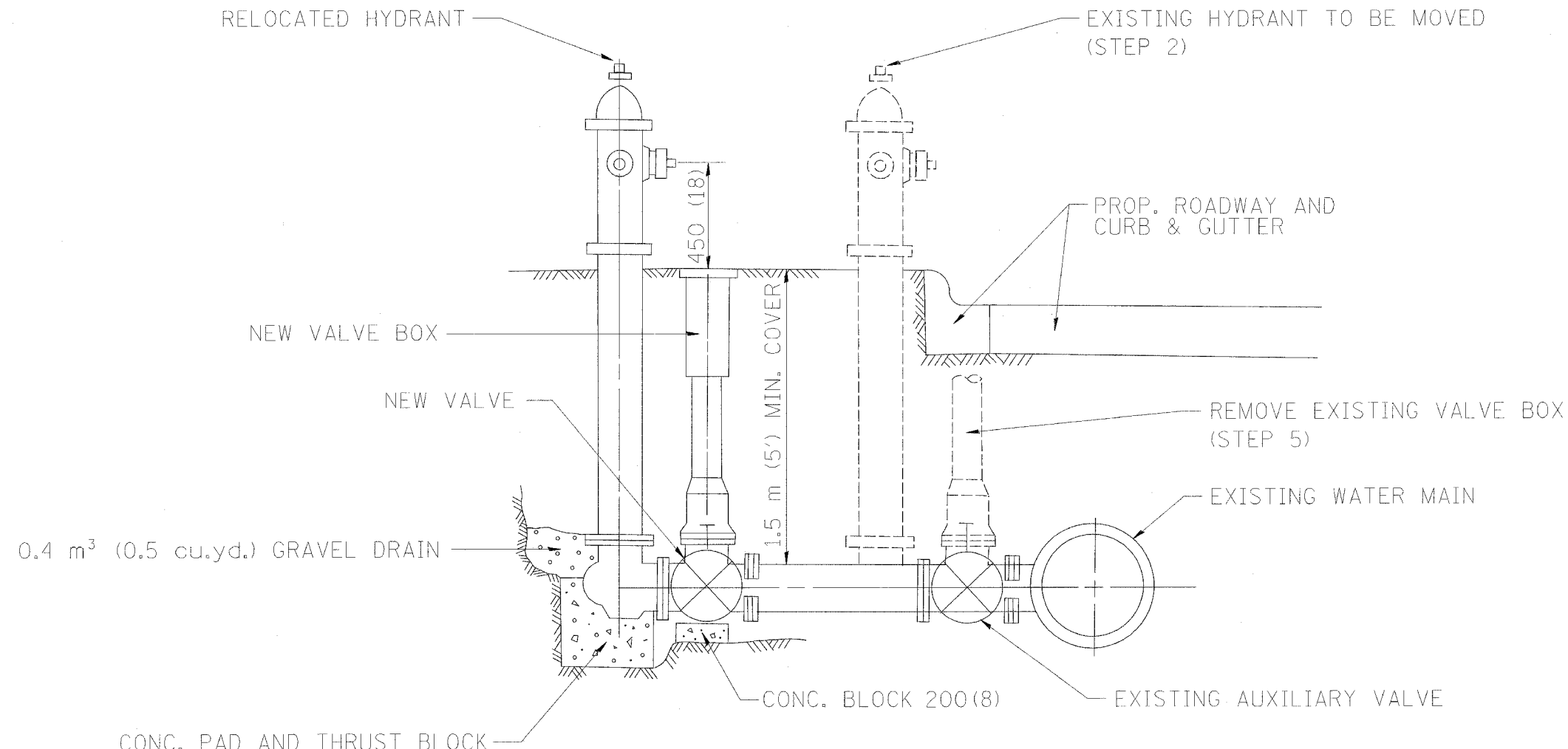
DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL.

SCALE: VERT. NONE
 HORIZ. 1" = 10'-0"
 PLOT DATE: 10/31/2006

DRAWN BY: Jjs
 CHECKED BY:

PLOT DATE = 10/31/2006
 PLOT SCALE = 1" = 10'-0"
 USER NAME = jjs

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224D
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SEQUENCE OF CONSTRUCTION:

1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

FIRE HYDRANT TO BE MOVED

REVISIONS	
NAME	DATE
R. SHAH	09/09/94
R. SHAH	10/25/94

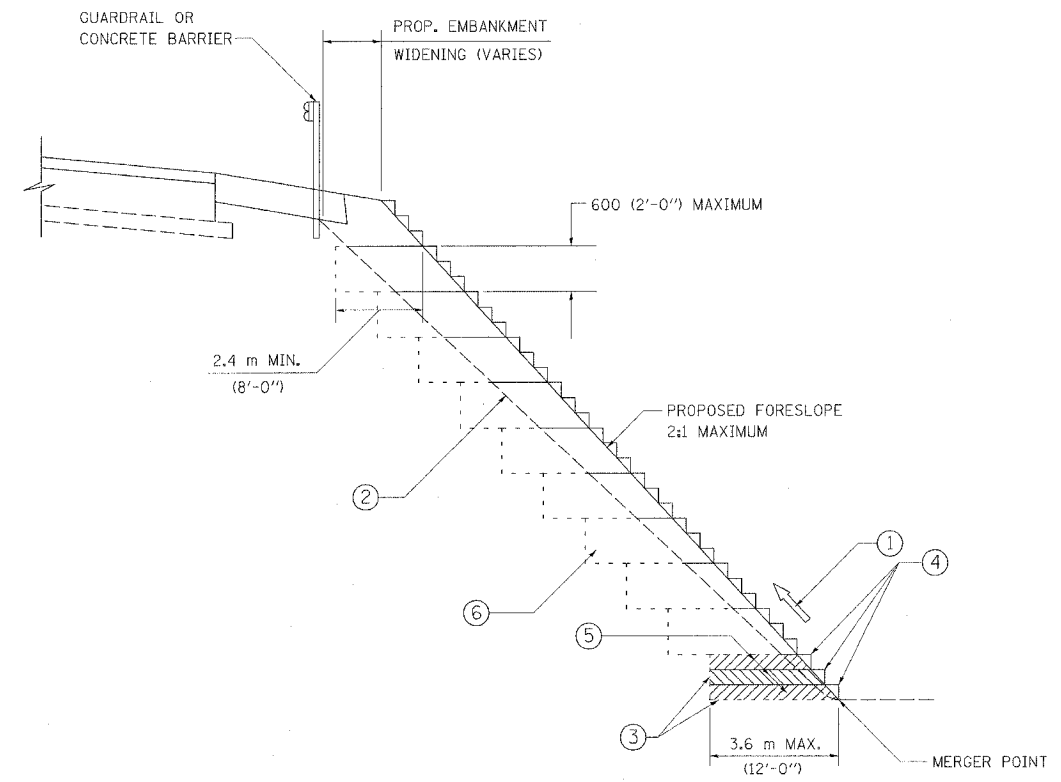
SCALE: NONE
DATE 10/18/2002

DRAWN BY
CHECKED BY
BD500-03 (BD-36)

DATE-TIME
DGN-SPEC
VH-BD36

REVISION DATE: 10/25/94

F. A. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224E
STA.		TO STA.		
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 205.04 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 200 (8-INCH) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.06 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 (SPECIAL)". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

1 - ADDED SHEET 1-3-07

REVISIONS	
NAME	DATE

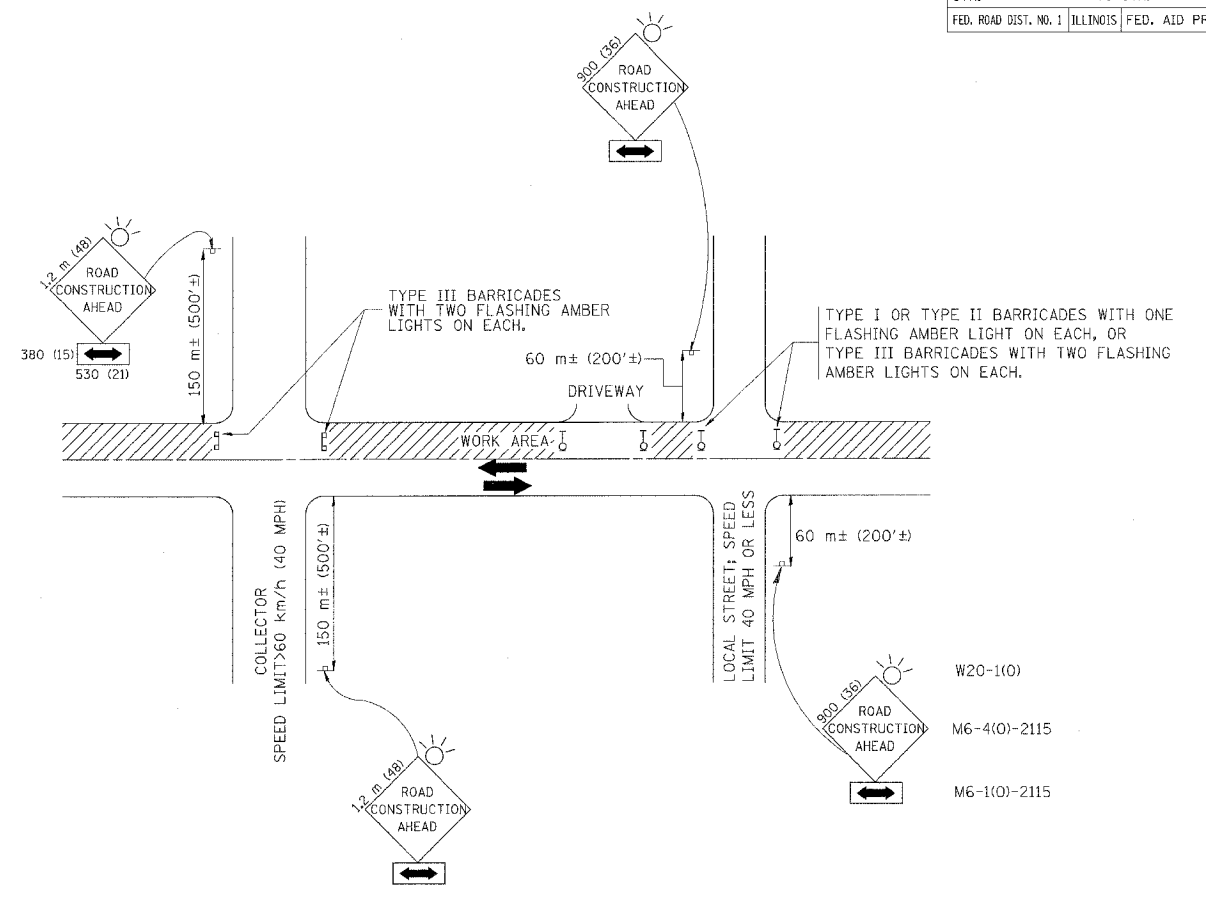
ILLINOIS DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL
FOR EMBANKMENT
WIDENING

SCALE: NONE
DATE 10/18/2002

DRAWN BY: CADD
CHECKED BY: S.E.B.
BD-51

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224F
STA.		TO STA.		
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 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') 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 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') 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.
 - 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.

1 - ADDED SHEET 1-3-07

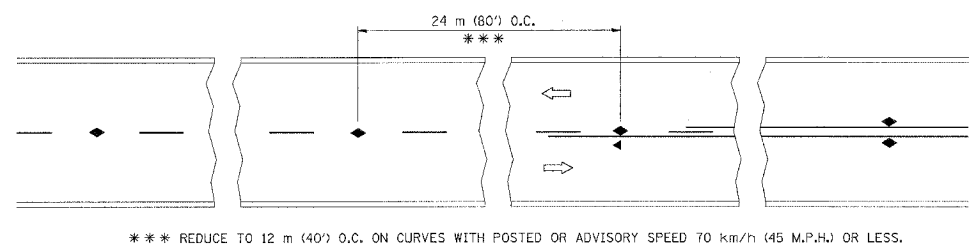
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC CONTROL AND PROTECTION
 FOR
 SIDE ROADS, INTERSECTIONS, AND
 DRIVEWAYS

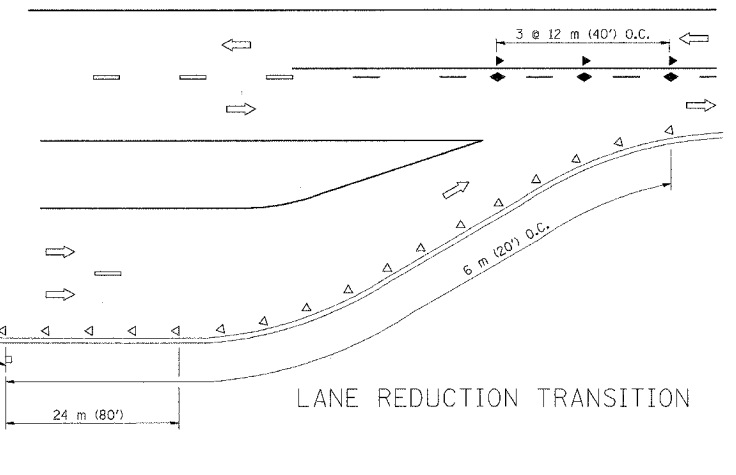
SCALE: VERT. _____
 HORIZ. _____
 DATE 10/18/2002

DRAWN BY _____
 CHECKED BY _____
 TC-10

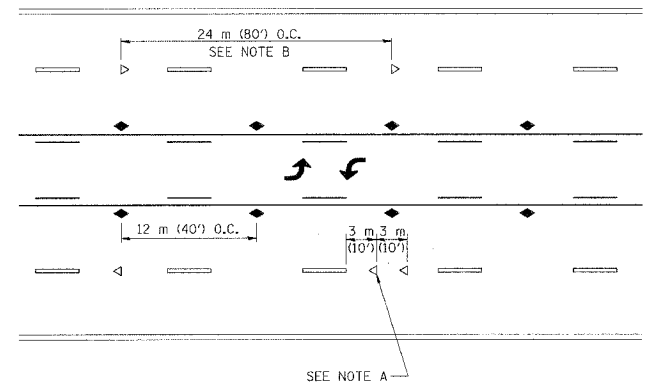
F.A. REF.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224G
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



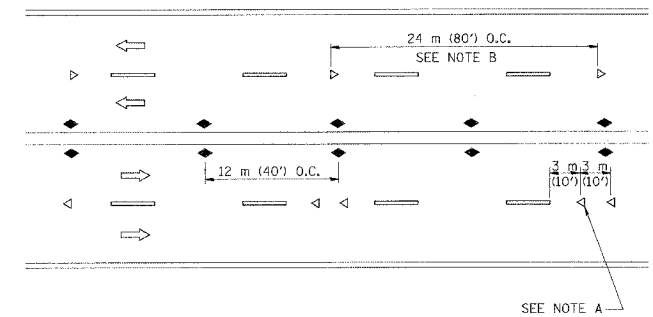
TWO-LANE/TWO-WAY



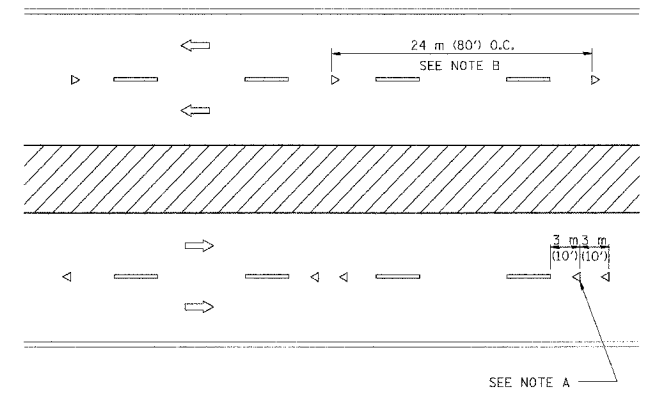
LANE REDUCTION TRANSITION



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 50 TO 75 (2 TO 3) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 150 m (500') IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

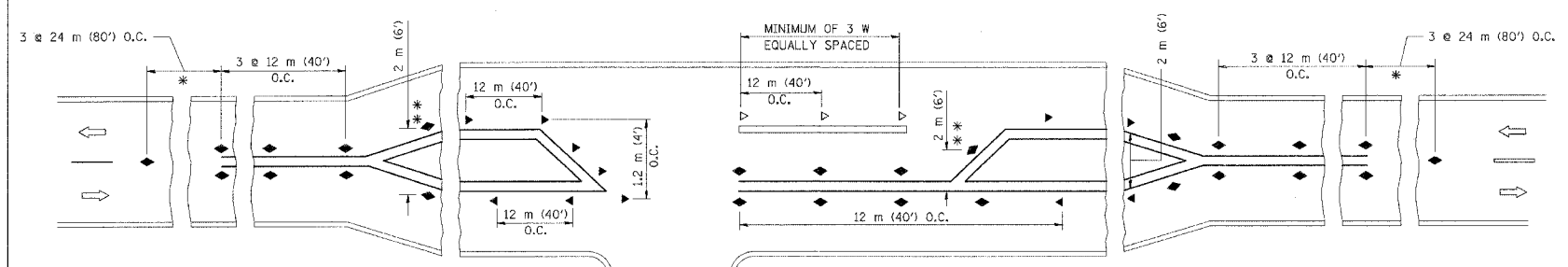
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- B. REDUCE TO 12 m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 20 km/h (10 M.P.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

- * SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
- ** WHERE THE MEDIAN WIDTH IS 2 m (6') OR LESS USE TWO-WAY MARKERS.

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

1 - ADDED SHEET 1-3-07

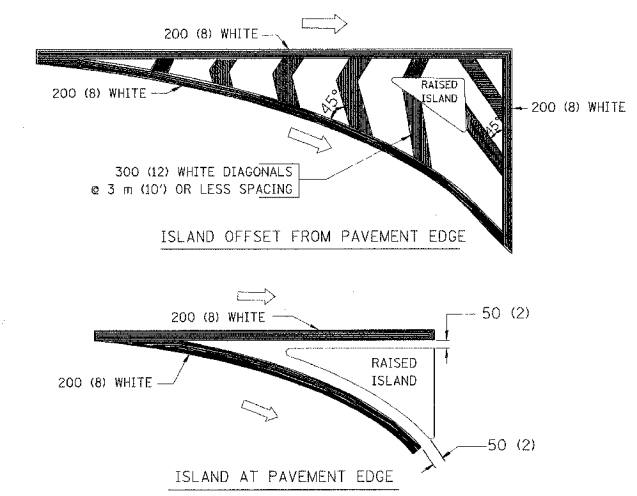
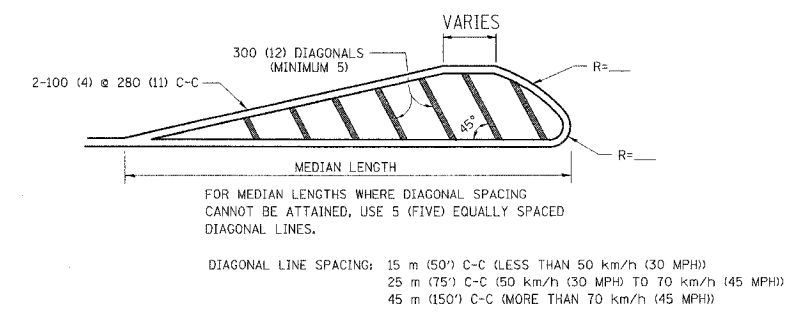
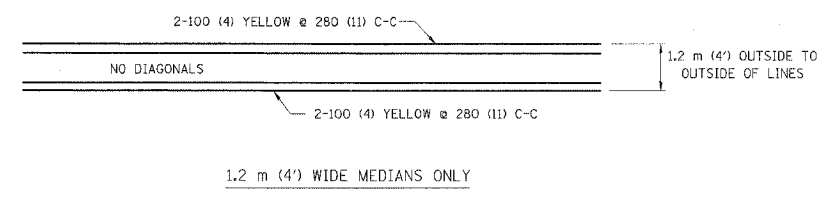
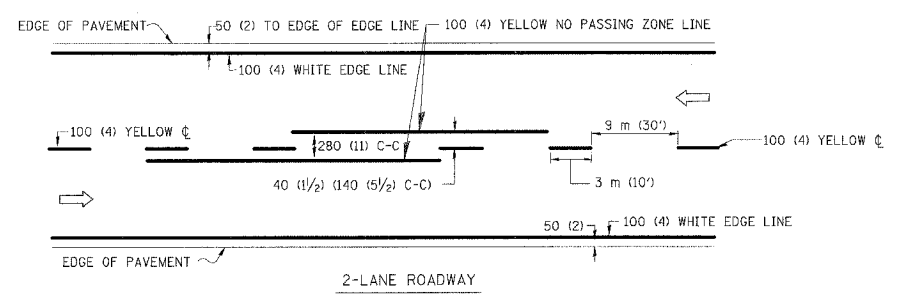
REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS
(SNOW-PLOW RESISTANT)

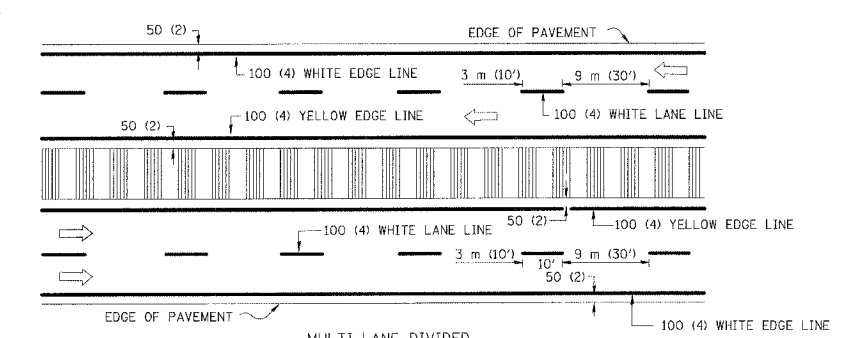
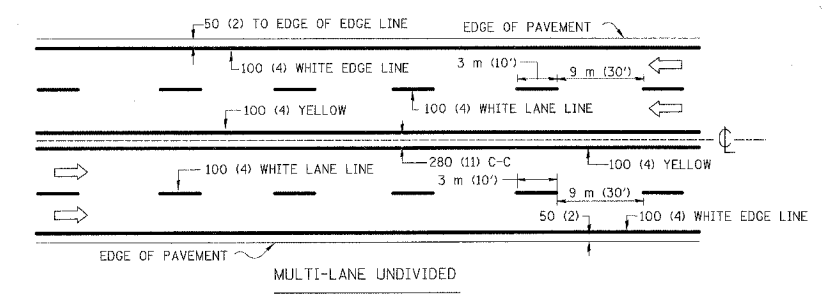
SCALE: NONE
DATE: 10/18/2002
DRAWN BY CADD
CHECKED BY TC-11

REVISION DATE: 01/06/00

DATE-TIME
DGN-SPEC
V-TCH

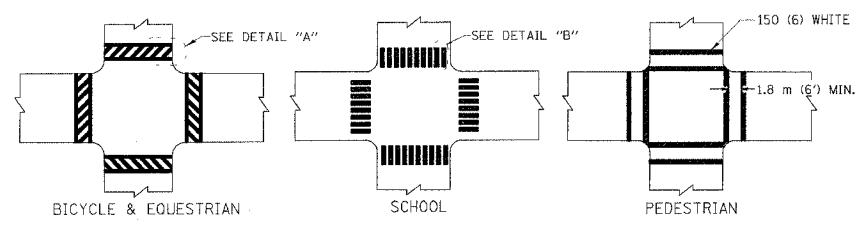


TYPICAL ISLAND MARKING

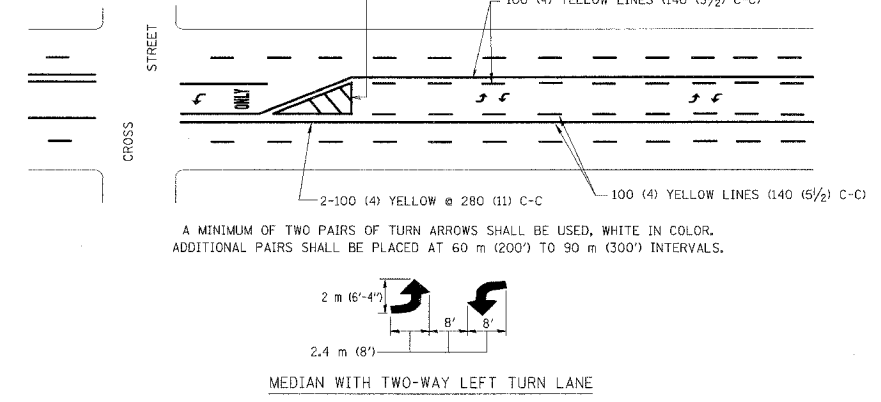


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

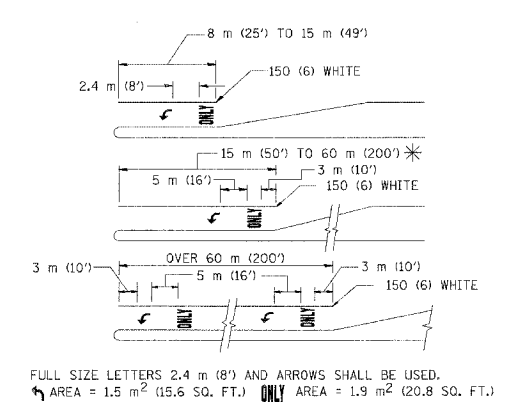
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) 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 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.33m ² (3.6 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

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

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

1 - ADDED SHEET 1-3-07

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE

TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DATE 10/18/2002

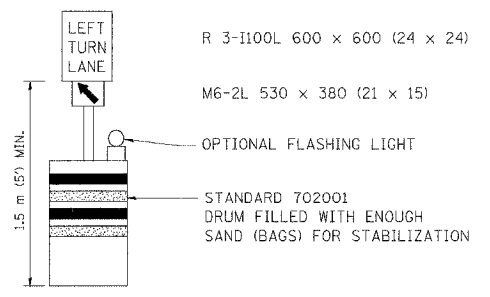
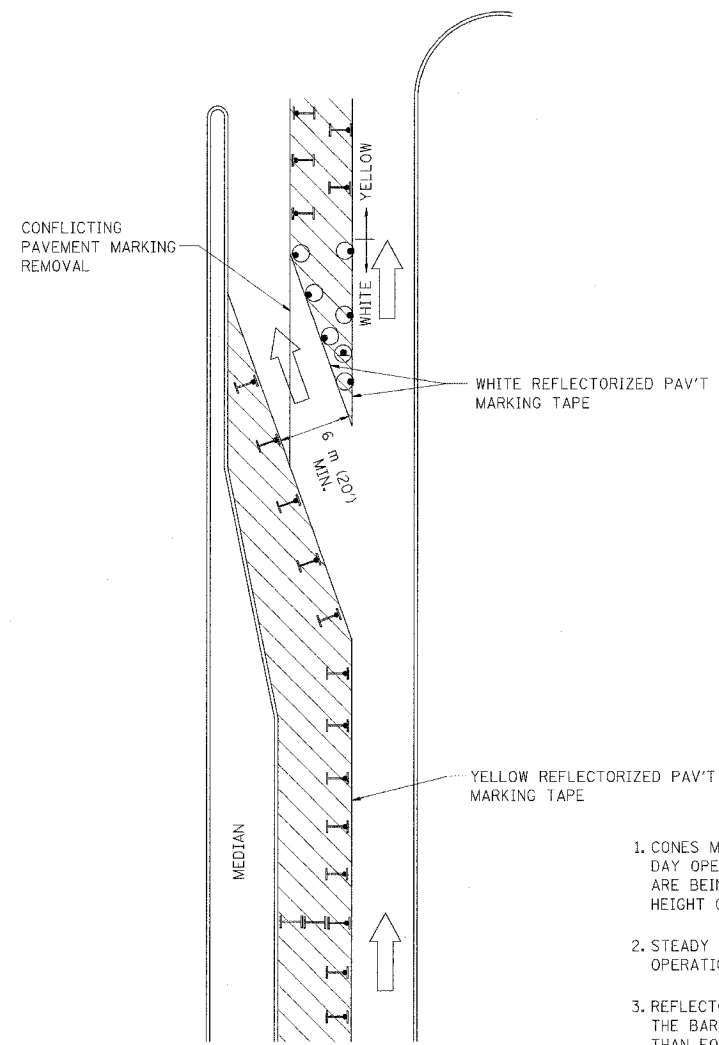
DRAWN BY CADD

CHECKED BY

TC-13

REVISION DATE 01/06/00


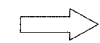




F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224I
STA.		TO STA.		
FED. ROAD DIST. NO.	DISTRICT	FED. AID PROJECT		



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 710 (28) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 1.5 m (5').
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 600 x 600 (24 x 24) AND M6-2R 530 x 380 (21 x 15) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

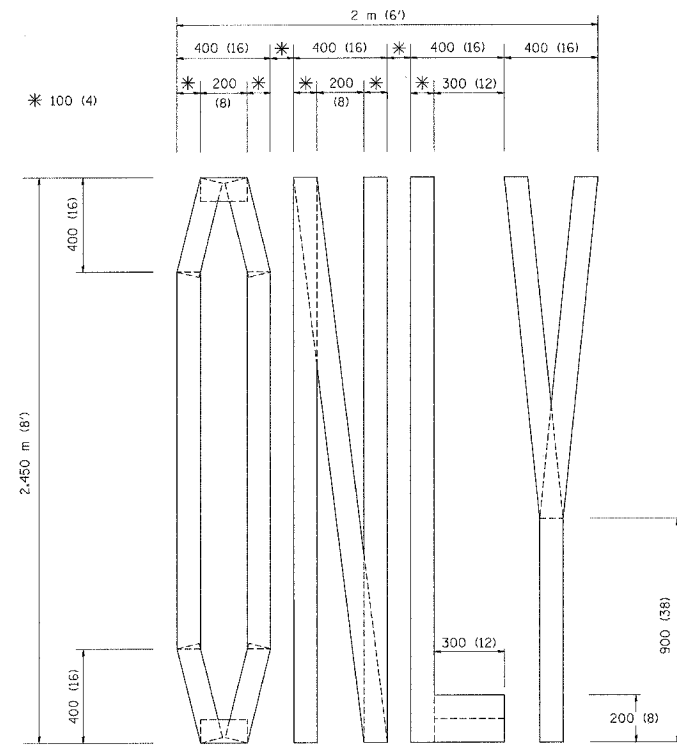
1 - ADDED SHEET 1-3-07

REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

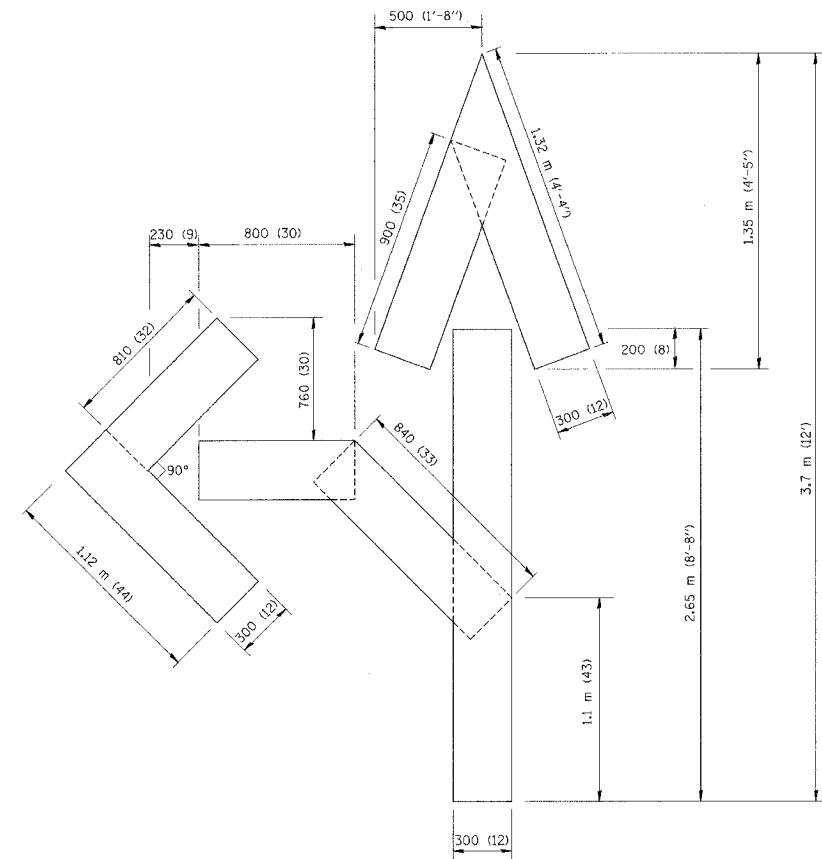
ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL AND PROTECTION
 AT TURN BAYS
 (TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE
 DATE: 10/18/2002
 DRAWN BY
 CHECKED BY LHA
 TC-14

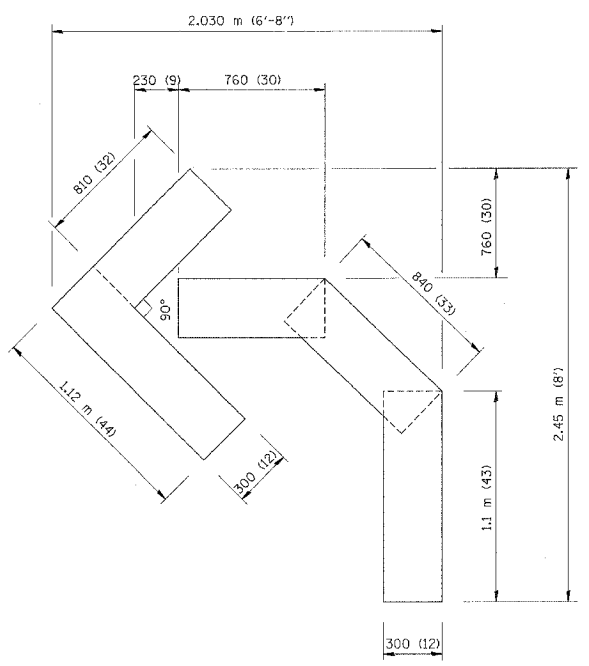
F.A. REL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224J
STA.		TO STA.		
FED. ROAD DIST. NO.	ELLIPSES	FED. AID PROJECT		



QUANTITY
 100 (4) LINE = 19.7 m (64.1 ft.)
 1.97 sq. m (21.1 sq. ft.)



QUANTITY
 100 (4) LINE = 25.3 m (82.5 ft.)
 2.53 sq. m (27.5 sq. ft.)



QUANTITY
 100 (4) LINE = 13.9 m (45.5 ft.)
 1.39 sq. m (15.2 sq. ft.)

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

1 - ADDED SHEET 1-3-07

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKING
 LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING**

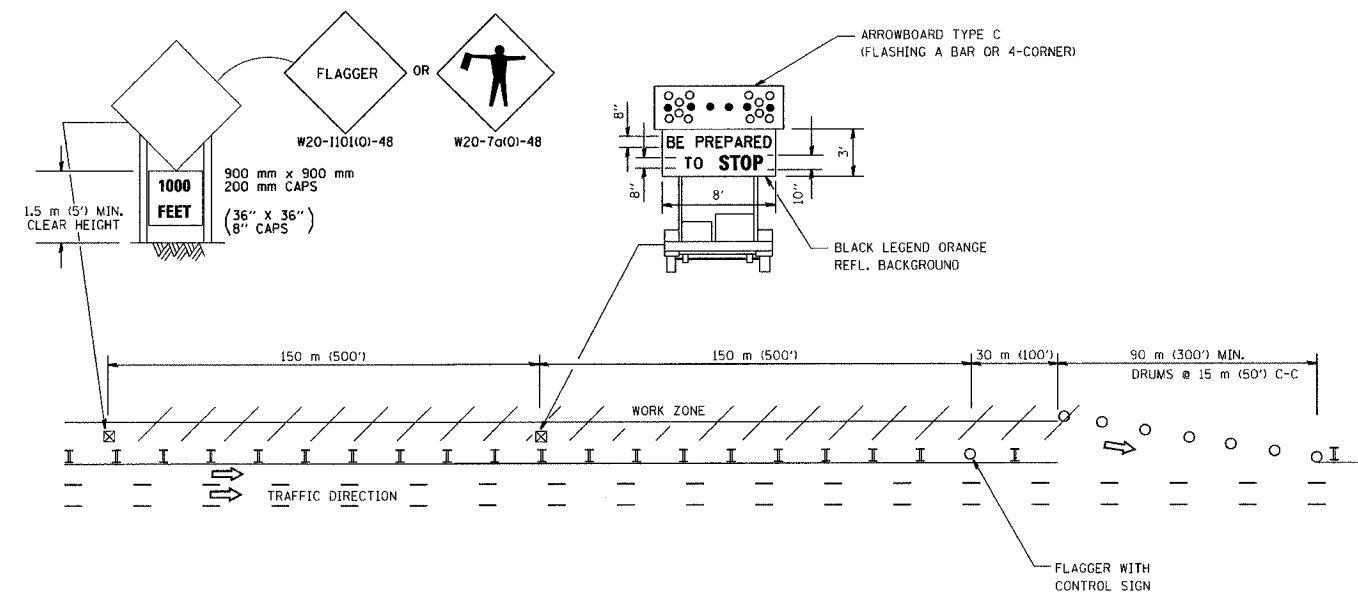
SCALE: NONE
 DATE 10/18/2002

DRAWN BY CADD
 CHECKED BY TC-16
 REVISION DATE: 08/28/00

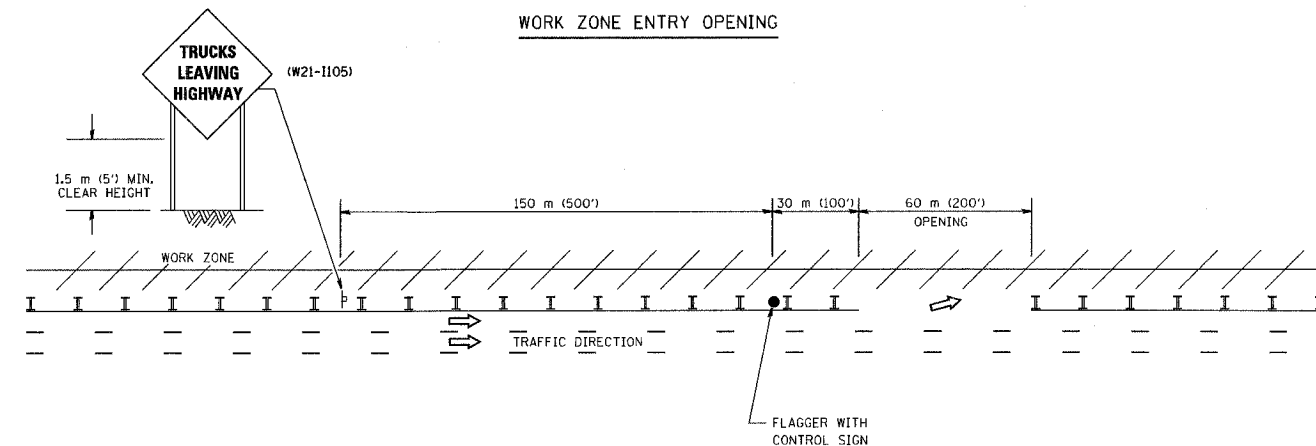
CONTRACT NO.			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
			283
SHEET NO.	224K		
STA.		TO STA.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03
JAF	2/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS

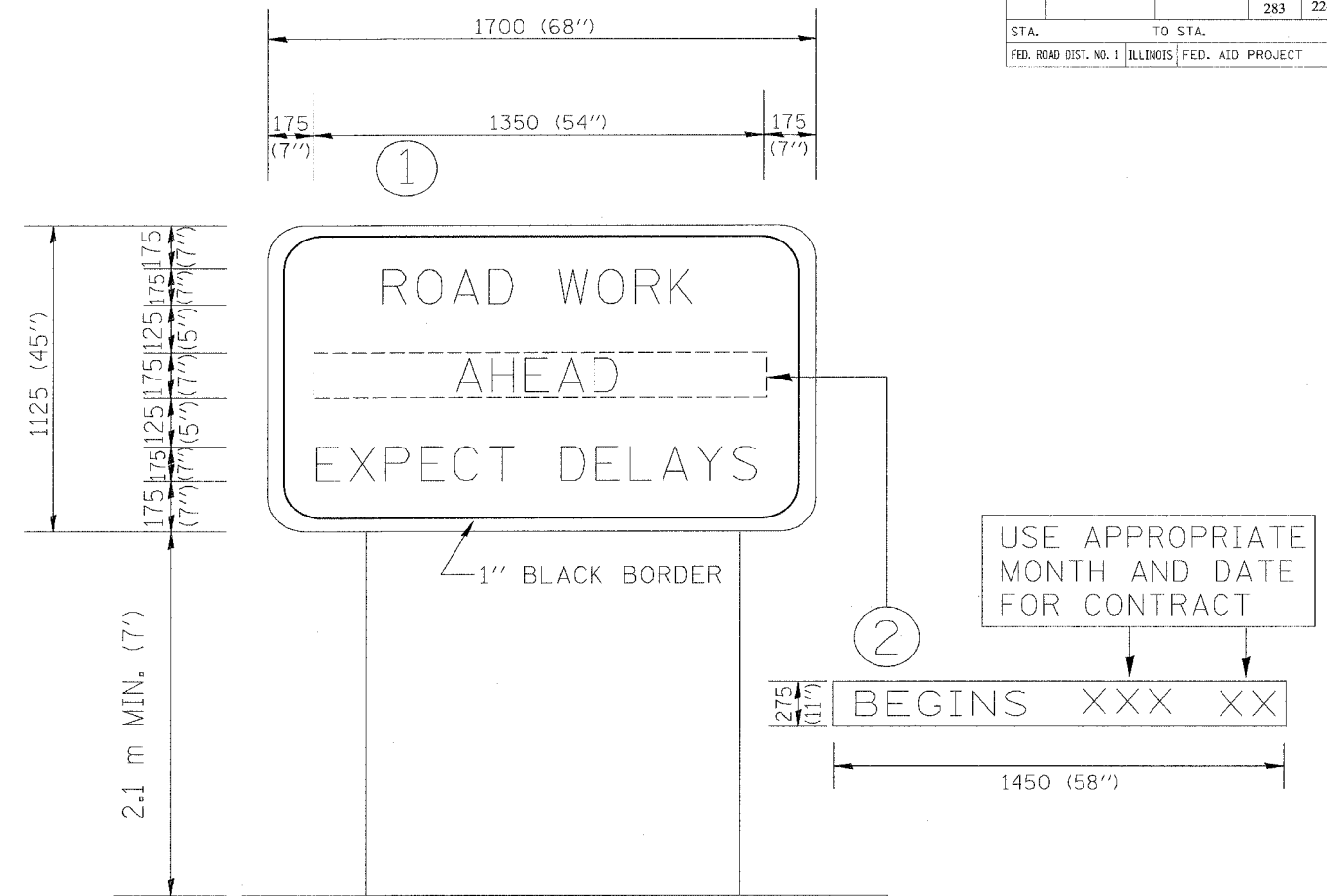
SCALE: NONE
DATE: 3/1/2006

DRAWN BY CADD
CHECKED BY
TC-18

1 - ADDED SHEET 1-3-07

REVISION DATE: 02/28/06

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224L
STA.		TO STA.		
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 2.3 SQ. M. (25.70 SQ. FT.)

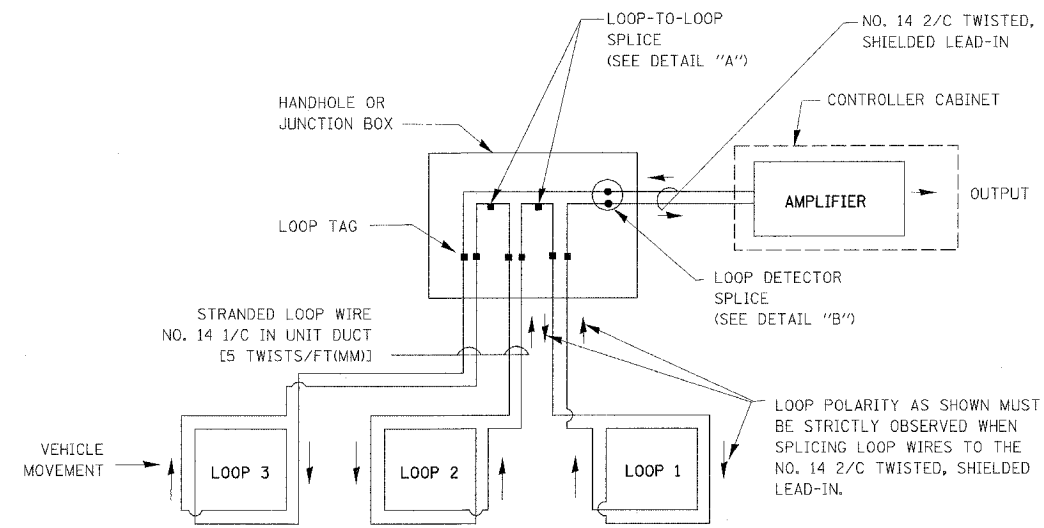
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
R. MIRS	9-15-97	TEMPORARY INFORMATION SIGNING
R. MIRS	2-11-97	
T. RAMMACHER	2-2-99	
		SCALE:
		DATE 10/18/2002
		DRAWN BY: BUR. OF DESIGN
		CHECKED BY:

1 - ADDED SHEET 1-3-07

LOOP DETECTOR NOTES

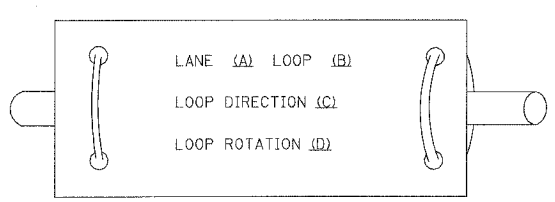
- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PERFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PERFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



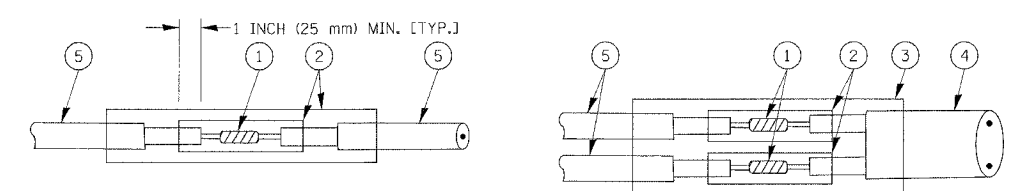
DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

LOOP LEAD-IN CABLE TAG



- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETAIL "A"
LOOP-TO-LOOP SPLICE

DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

1 - ADDED SHEET 1-3-07

REVISIONS	
NAME	DATE
CADD	5/30/00
ADD NOTE NO. 8	11/12/01
BUREAU OF TRAFFIC	1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

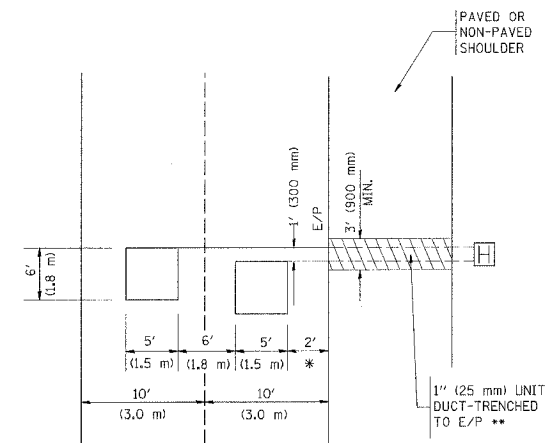
SCALE: VERT. NONE
HORIZ.
DATE 10/18/2002

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 1 OF 4

F. & E. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224N
STA.	TO STA.			
FED. ROAD DIST. NO. 1	BID NO.	FED. AID PROJECT		

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



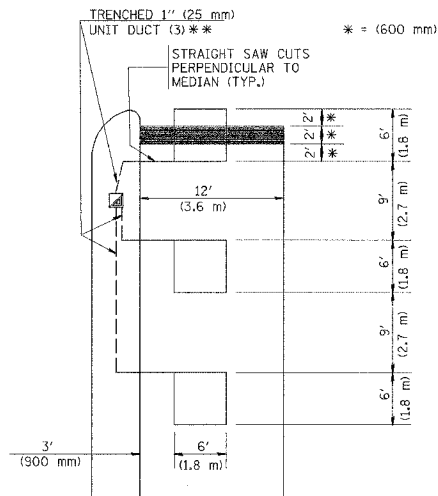
* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



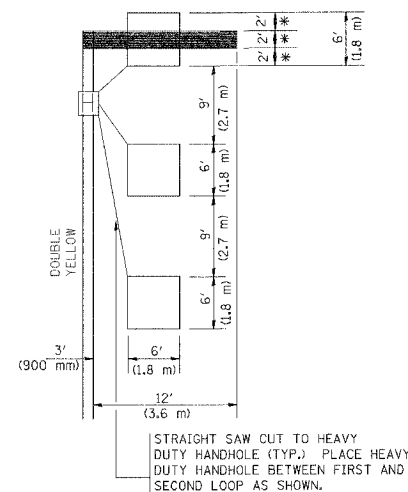
** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH**

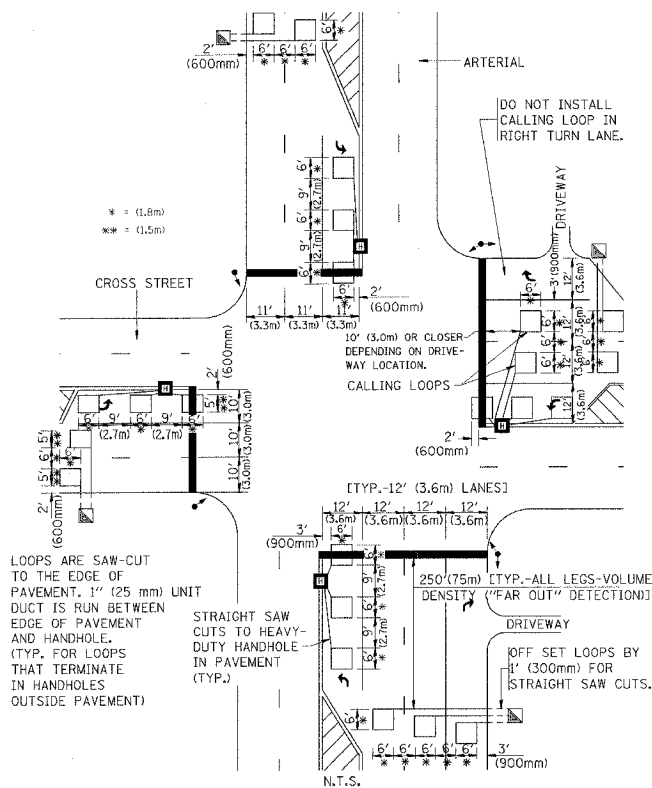
(PROTECTED / PERMITTED LEFT TURN PHASING)

* = (600 mm)



NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**

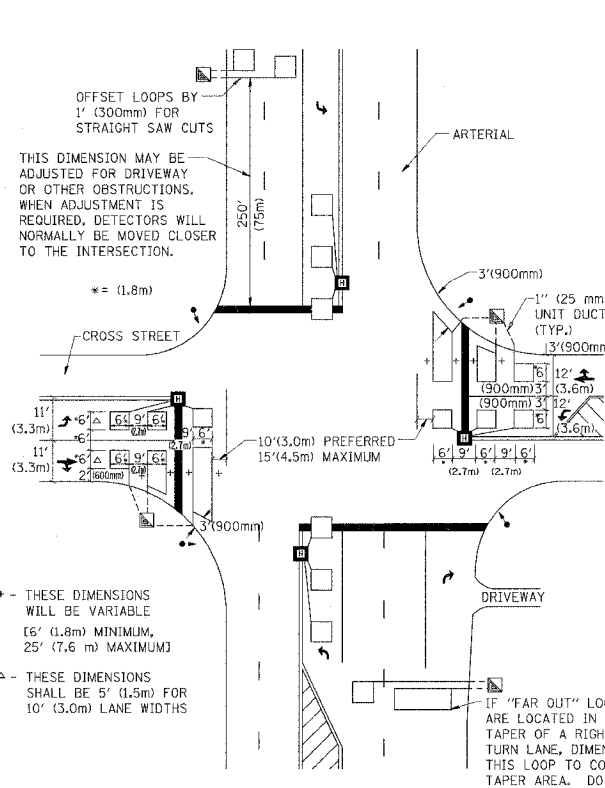


LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

STRAIGHT SAW CUTS TO HEAVY-DUTY HANDHOLE IN PAVEMENT (TYP.)

DETAIL 1
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



+ - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]

Δ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.

DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DIMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

Δ - ADDED SHEET 1-3-07

REVISIONS	
NAME	DATE

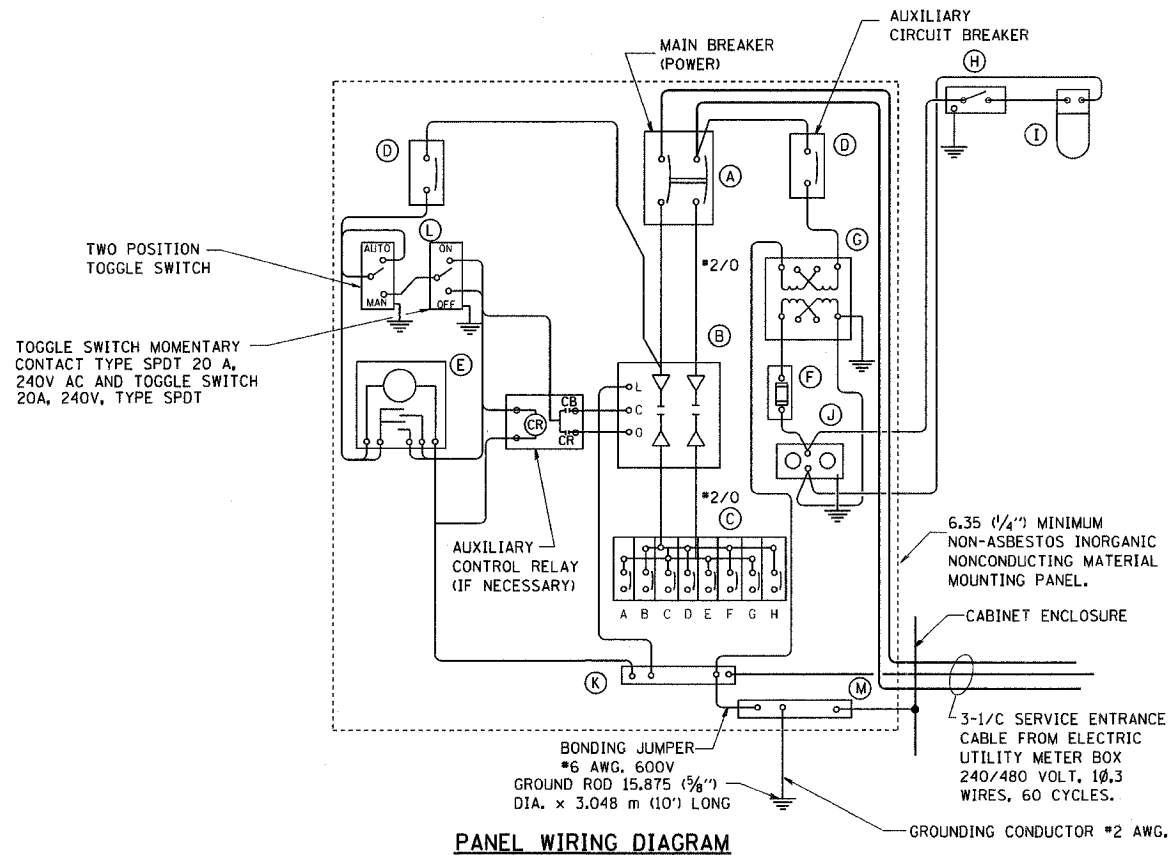
ILLINOIS DEPARTMENT OF TRANSPORTATION
**DISTRICT 1
DETECTOR LOOP
INSTALLATION DETAILS
FOR ROADWAY RESURFACING**

SCALE: NONE
DATE: 10/18/2002

DRAWN BY CADD
DESIGNED BY
CHECKED BY R.K.F.
TS07

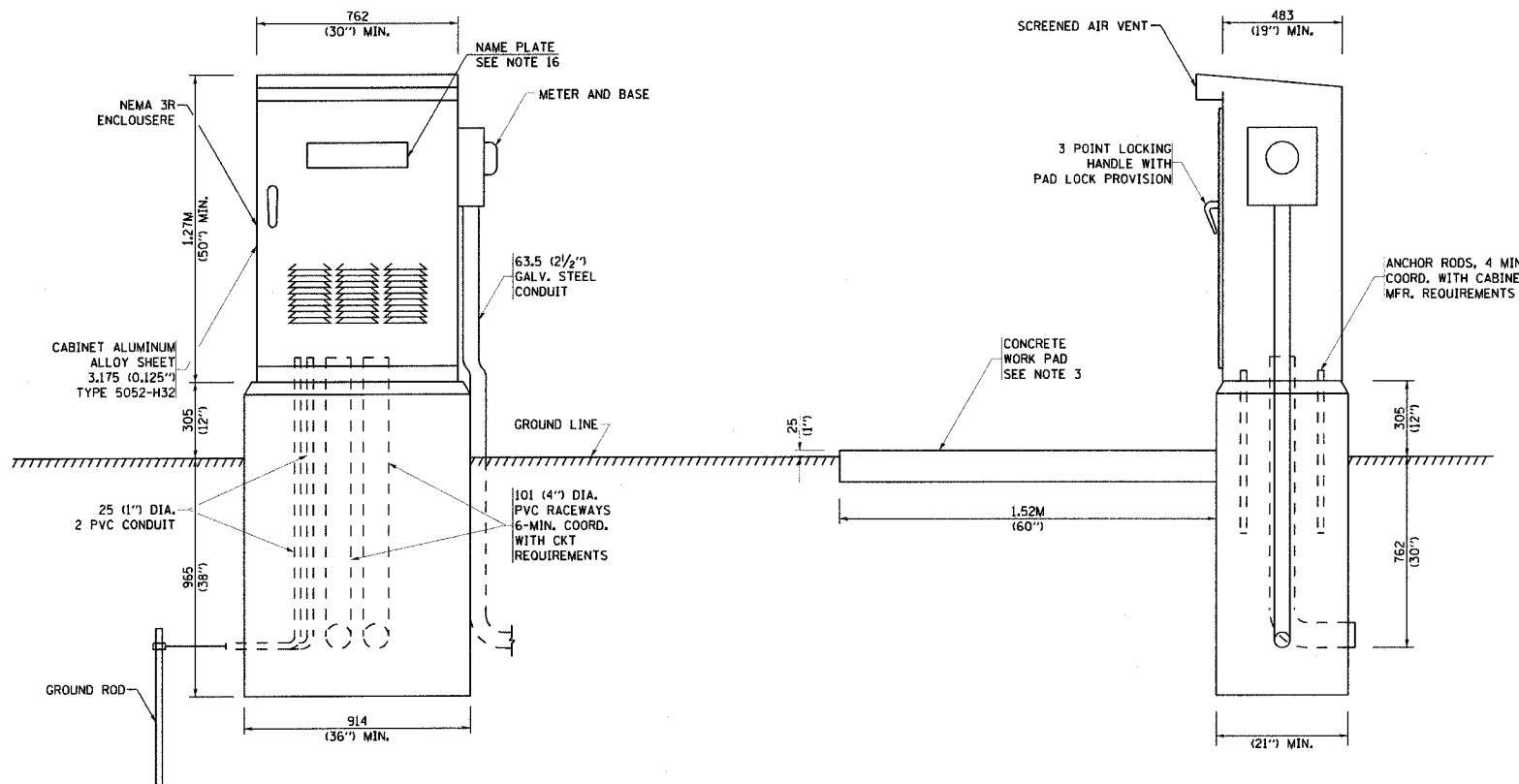
REVISION DATE:

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		283	2240
STA.		TO STA.	
FED. ROAD DIST. NO.	BLINDS	FED. AID PROJECT	



PANEL EQUIPMENT

BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100AMP. FRAME, 100AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
C	8	CIRCUIT BREAKERS, 1 POLE, 100AMP. FRAME, 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100AMP. FRAME, 15AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER [TIME SWITCH].
F	1	20 A., 120 V. FUSE.
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 HZ.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER GROUND BUS 6.35 (1/4") X 25.4 (1") X 304.8 mm (12") LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 101.6 (4") X 101.6 mm (4") BOX.
M	1	COPPER GROUND BUS 6.35 (1/4") X 25.4 (1") X 304.8 mm (12") LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 50.8 mm (2") TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 914.4 mm (36") x 18.288 m (60") x 101 mm (4") MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 6.35 mm (1/4") DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL"
- 304.8 (12") X 406.4 mm (16") STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED

BE-215

ILLINOIS DEPARTMENT OF TRANSPORTATION

**LIGHTING CONTROLLER
SINGLE DOOR**

REVISIONS	
NAME	DATE

SCALE: NONE
DATE: 08/20/04

DRAWN BY Jls
CHECKED BY

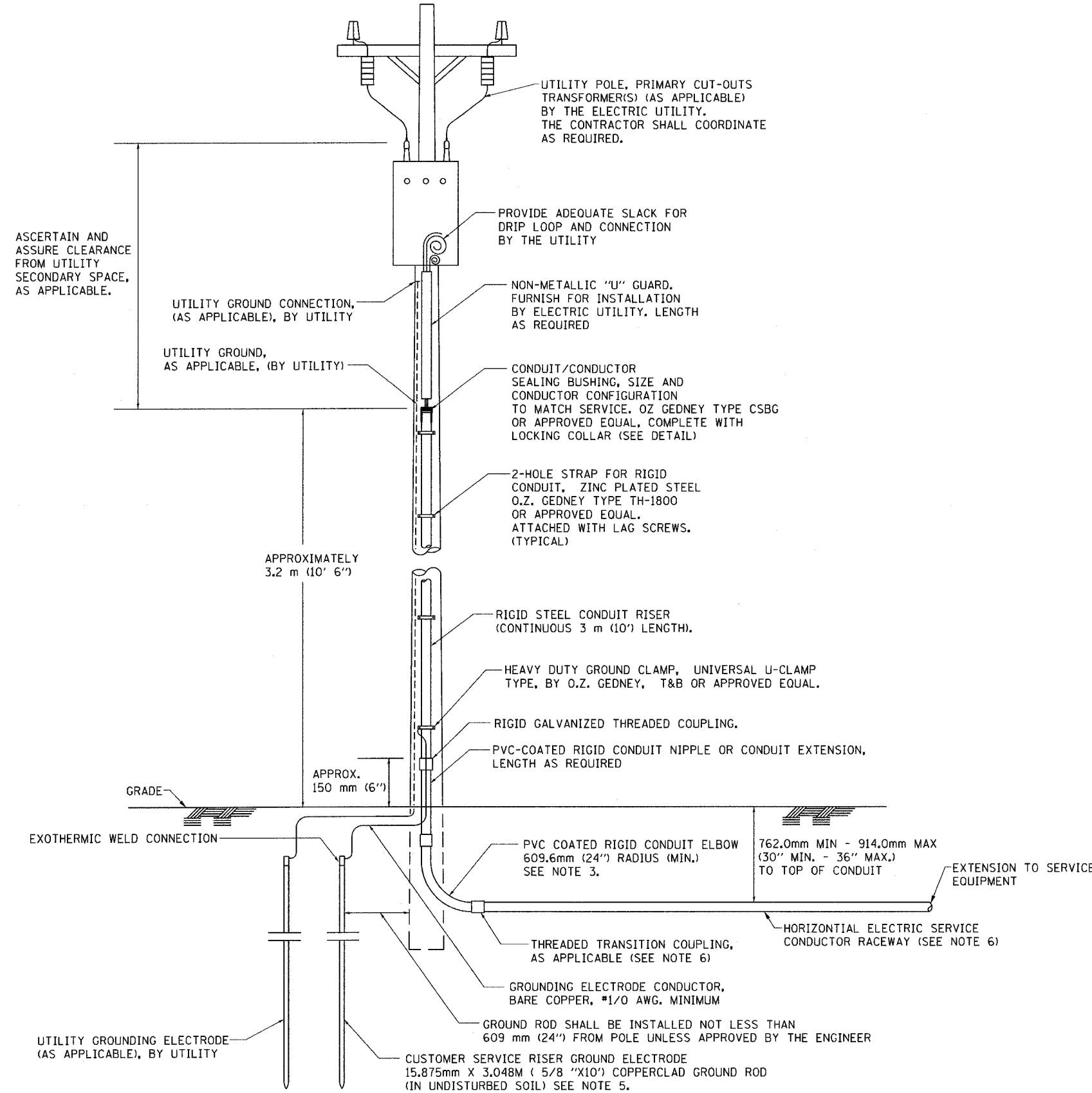
BE-215

REVISION DATE: 08/20/04

ADDED SHEET 1-3-07

DATE-TIME
DGN-SPEC
USER

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224P
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

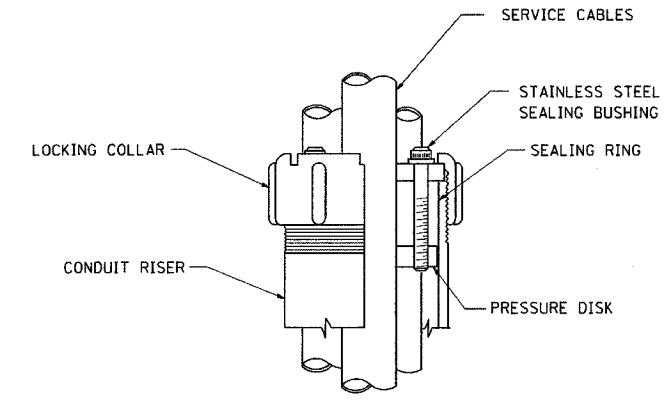


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALLIC TO NON METALLIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

ADDED SHEET 1-3-07

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ELECTRIC SERVICE INSTALLATION
AERIAL, REMOTE DISCONNECT
BE - 220**

SCALE: NONE
DATE: 3/10/2006

DRAWN BY
CHECKED BY MEA

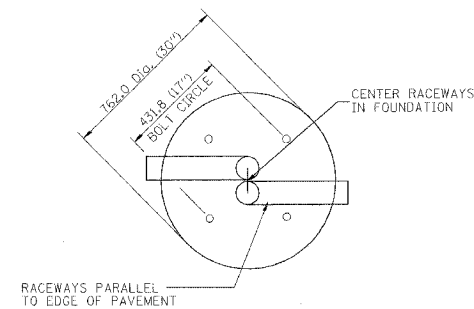
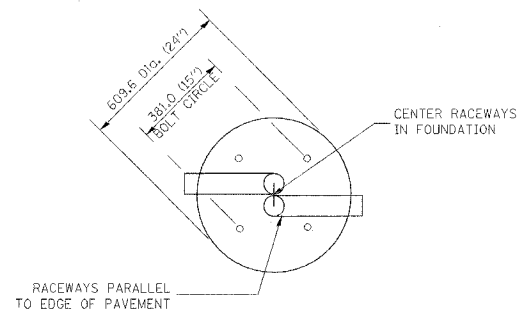
BE-220

PLT DATE = 3/10/2006
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USER NAME = me

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224Q
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ADDRESS		FED. AID PROJECT

LIGHT POLE FOUNDATION DEPTH TABLE
12.192M (40 FT.) TO 14.478M (47.5 FT.) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	3.96M (13'-0")	4.57M (15'-0")
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	2.09M (9'-6")	3.23M (10'-9")
STIFF CLAY Qu = 1.50 TON/SQ. FT.	2.13M (7'-0")	2.44M (8'-0")
LOOSE SAND φ = 34°	2.74M (9'-0")	3.05M (10'-0")
MEDIUM SAND φ = 37.5°	2.52M (8'-3")	2.74M (9'-0")
DENSE SAND φ = 40°	2.36M (7'-9")	2.74M (9'-0")

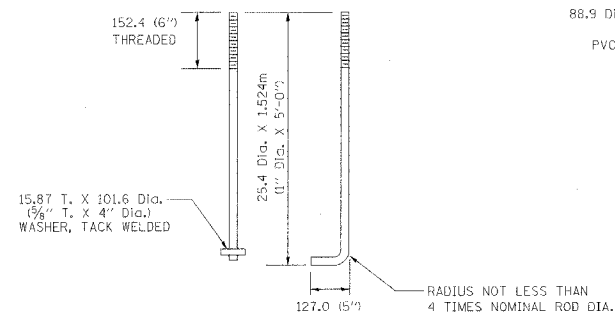


TOP VIEW

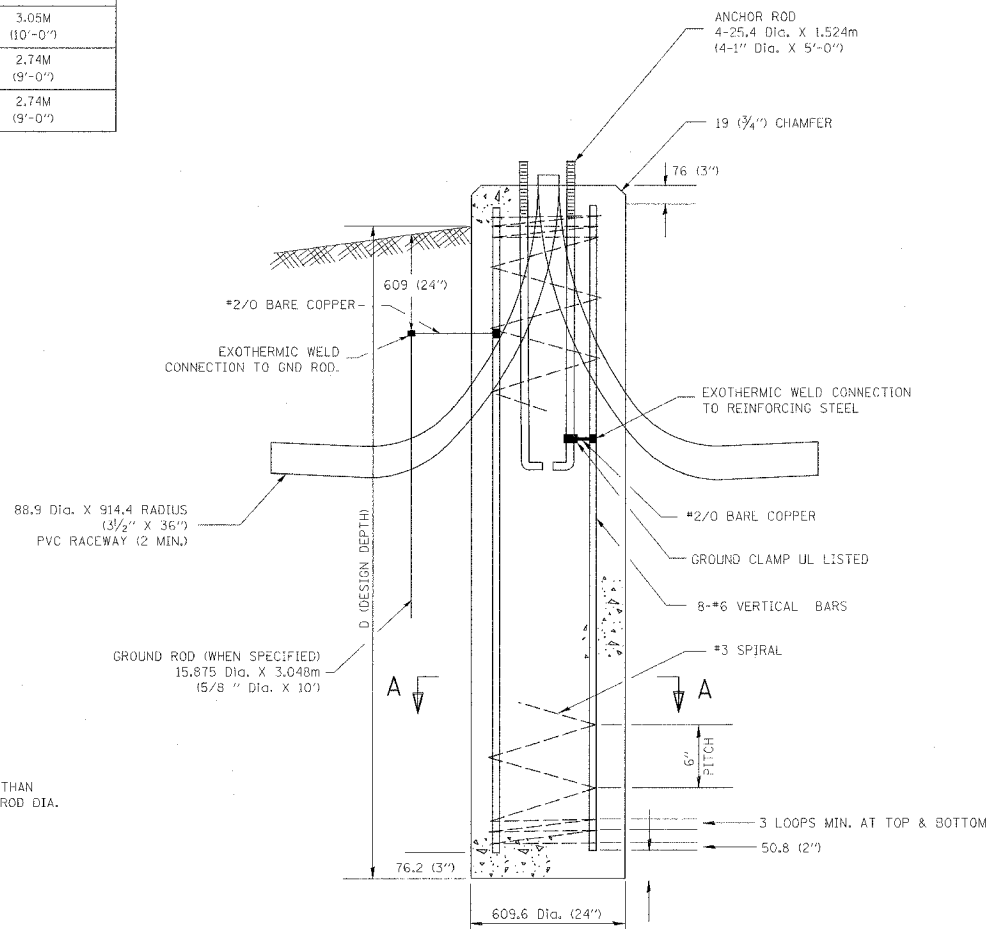
TOP VIEW

NOTES

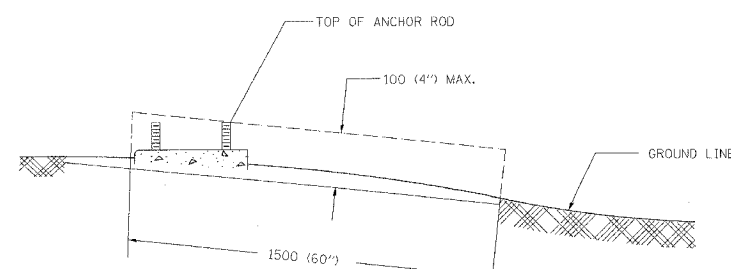
- ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 1.5M (60 IN.) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 20MM (3/4-IN.).
- THE CONCRETE SHALL BE CLASS SL. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 150 MM (6 INCHES) WITH A MINIMUM OF 75 MM (3 INCHES) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 69.5MM (2 3/4") ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 152.4MM (6") PITCH OR MAY SUBSTITUTE #3 TIES AT 304.8MM (12") O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 25.4MM (1") ABOVE THE TOP OF THE FOUNDATION.



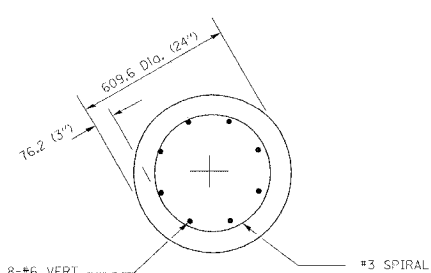
ANCHOR ROD DETAIL



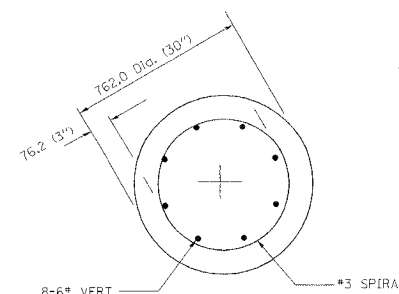
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

1 - ADDED SHEET 1-3-07

REVISIONS	
NAME	DATE

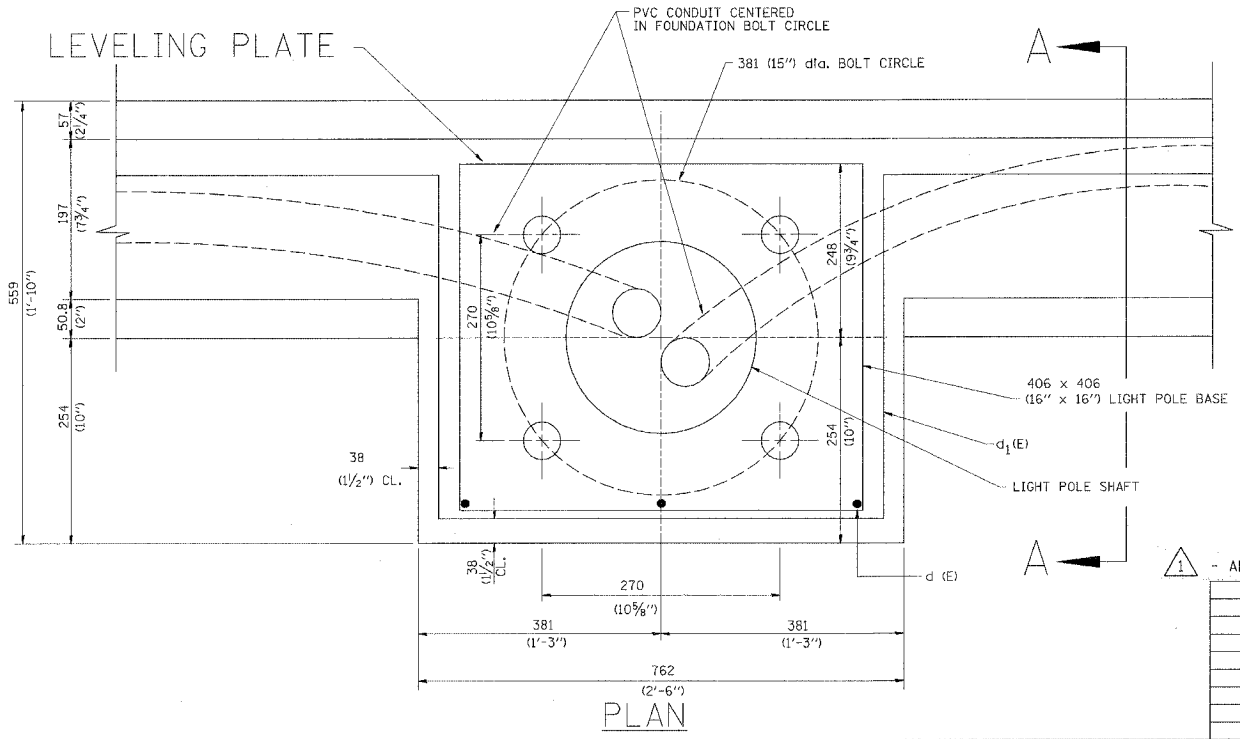
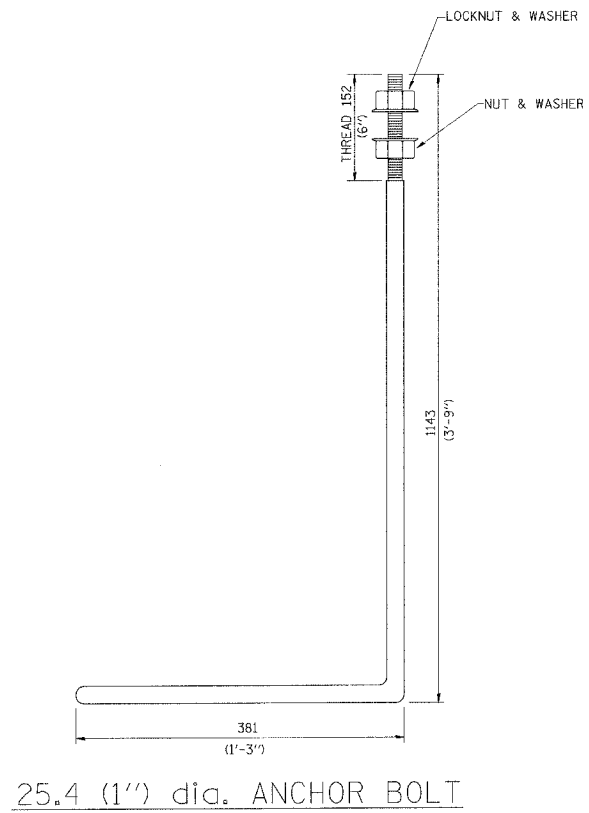
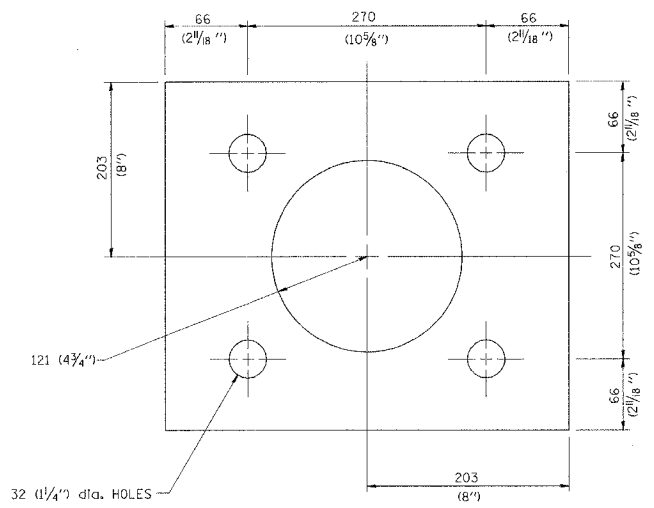
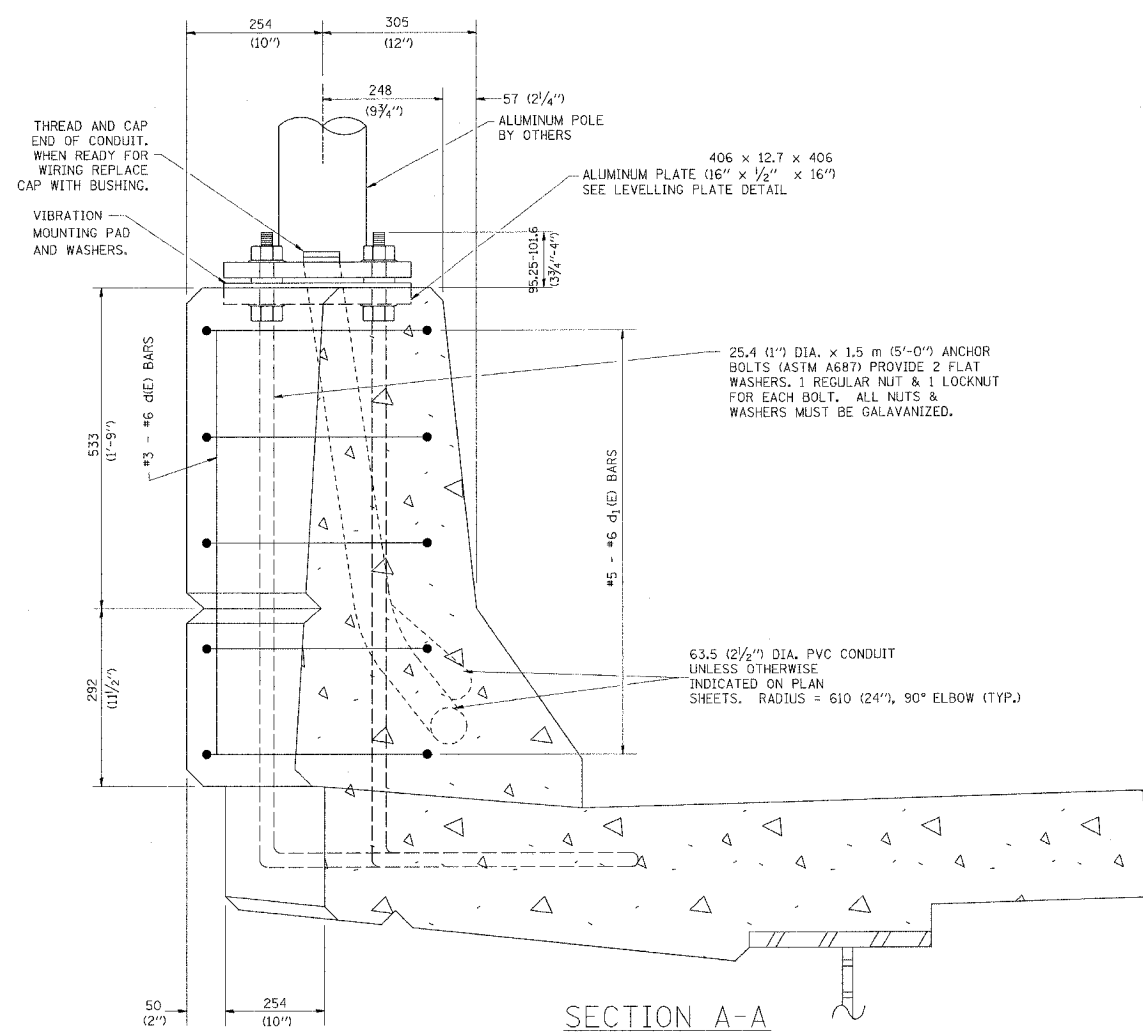
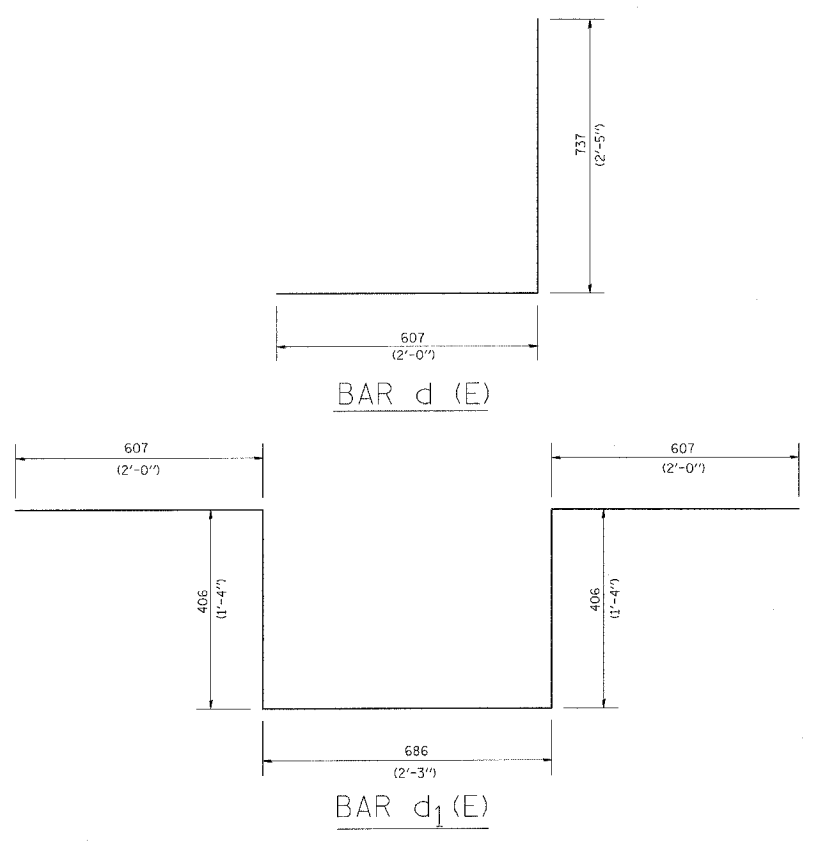
E-301
ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHT POLE FOUNDATION
12.192M (40') TO 14.478M (47 1/2') M.H.
381 (15") BOLT CIRCLE

SCALE: NONE
DATE 10/18/2002

DRAWN BY JKM
CHECKED BY BE301

REVISION DATE: 04/22/02

F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224R
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
 2. LEVEL LIGHT POLE PLATES, USING THE FLANGE NUTS, PRIOR TO POURING THE PARAPET WALL. THE TOP OF THE PLATE SHALL BE AT THE SAME ELEVATION AS THE FINISHED CONCRETE PARAPET.
 3. THE COST OF ANCHOR BOLTS, CONDUIT, LEVELLING PLATE AND FOUNDATION IS INCLUDED IN THE COST OF THE BRIDGE STRUCTURE.

ADDED SHEET 1-3-07

REVISIONS	
NAME	DATE

BE-330

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT POLE MOUNTED ON CONCRETE PARAPET WALL

381 mm (15") BOLT CIRCLE

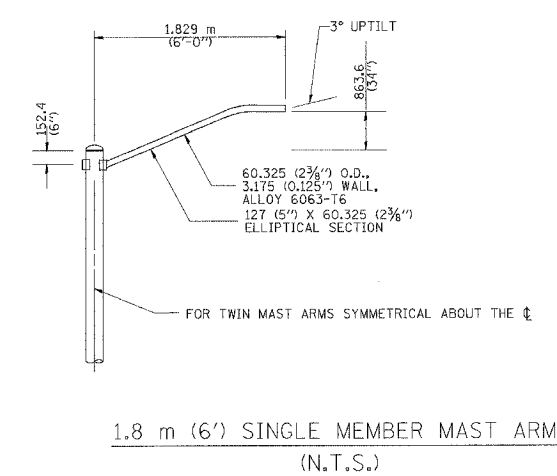
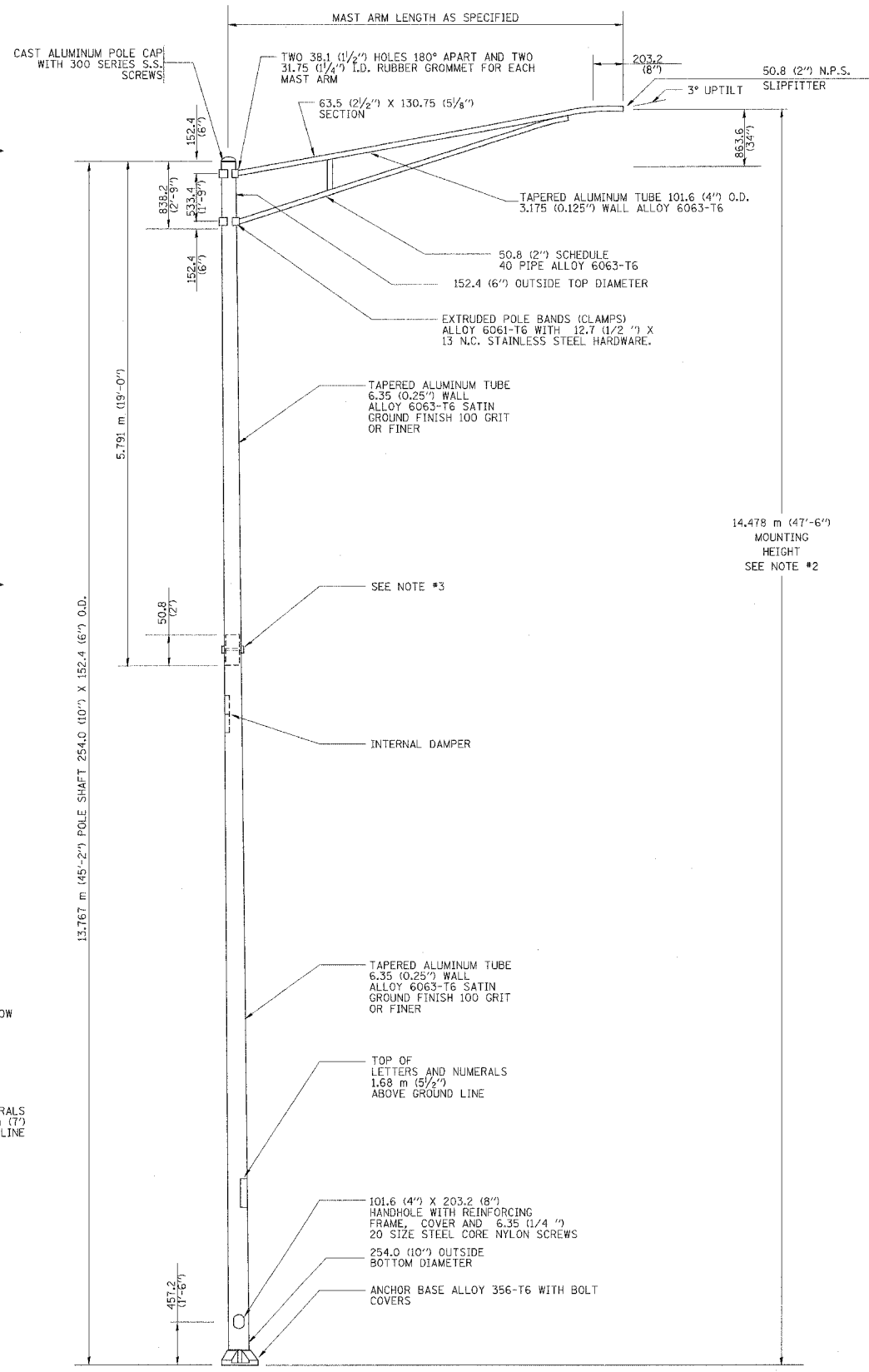
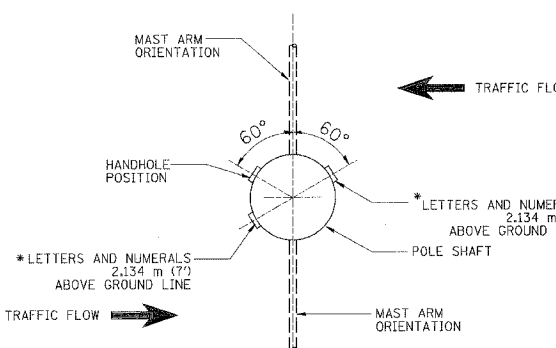
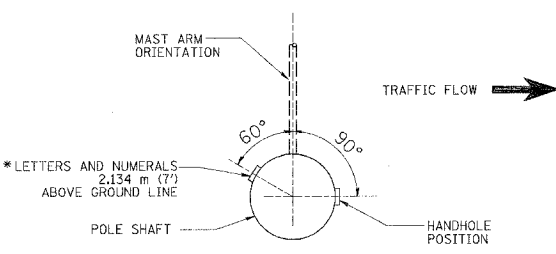
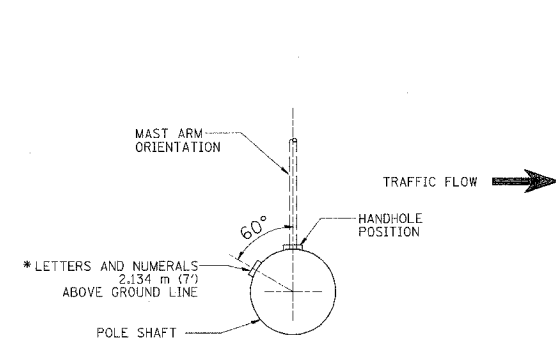
SCALE: NONE
DATE 10/18/2002

DRAWN BY
CHECKED BY
BE-330

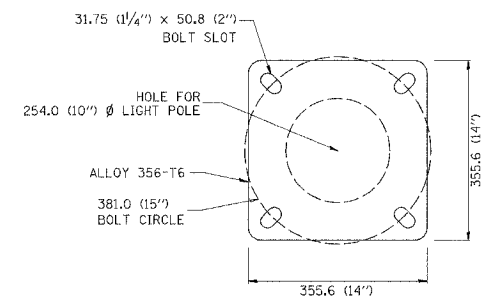
REVISION DATE: 04/22/02

DATE-TIME
DGN-SPEC
VI-BE-330

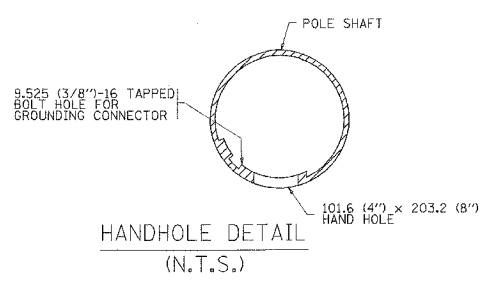
F. A. SHE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224S
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
 - MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TEMON TO THE BOTTOM OF THE ANCHOR BASE.
 - TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 - THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 - THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP40L OR APPROVED EQUAL.
 - LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 - LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 - LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL
381.0 (15 INCH) BOLT CIRCLE



1 - ADDED SHEET 1-3-07

REVISIONS	
NAME	DATE
R. TOMSONS	9-6-00
R. TOMSONS	8-12-03

BE-400

ILLINOIS DEPARTMENT OF TRANSPORTATION

ALUMINUM LIGHT POLE

14.478 m (47'-6")

MOUNTING HEIGHT

SCALE: NONE

DATE 09/03/2003

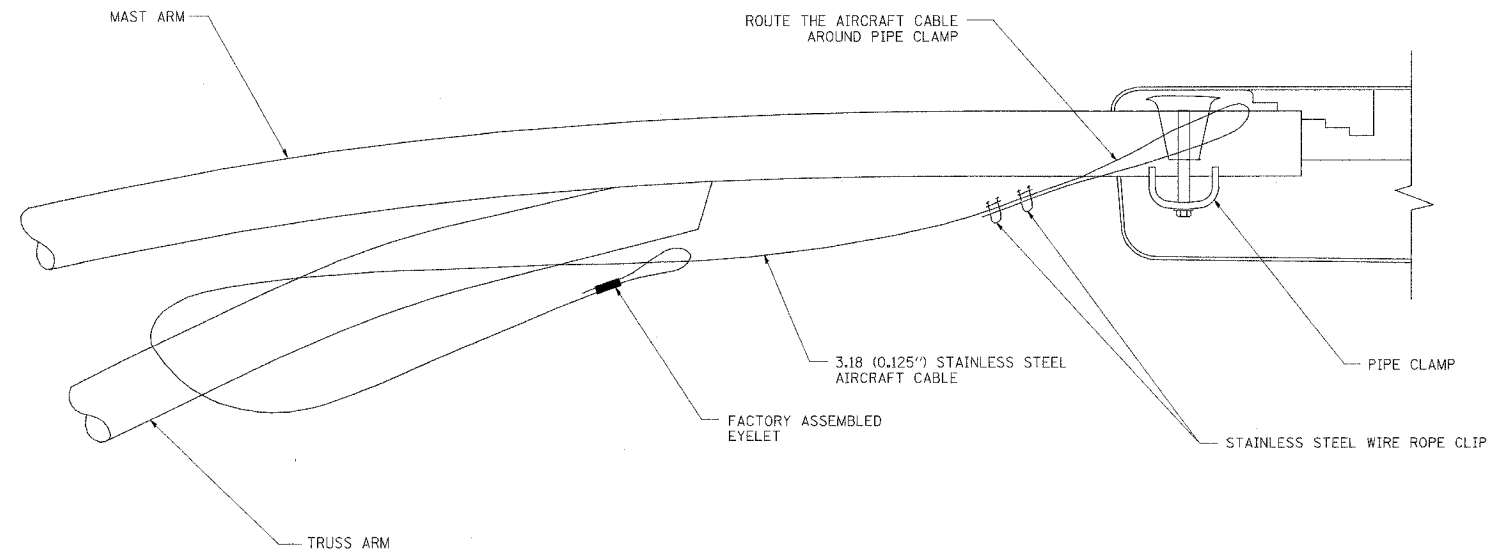
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CHECKED BY

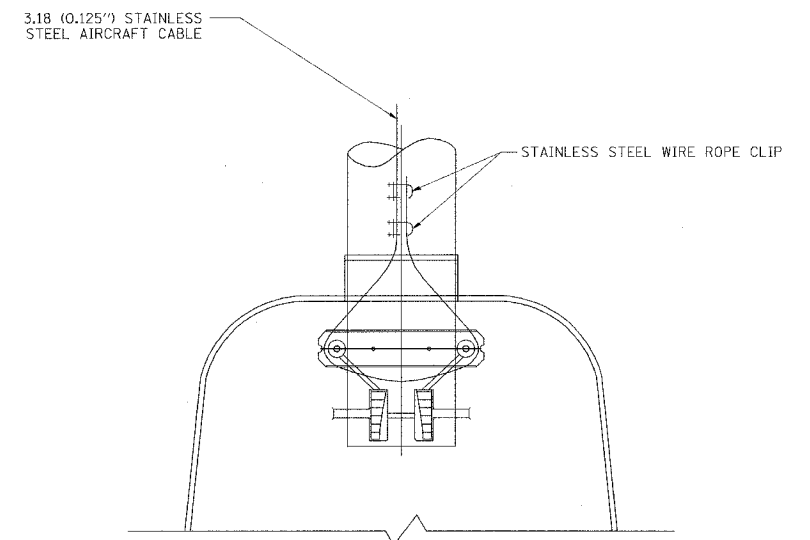
BE-400

REVISION DATE: 09/02/03

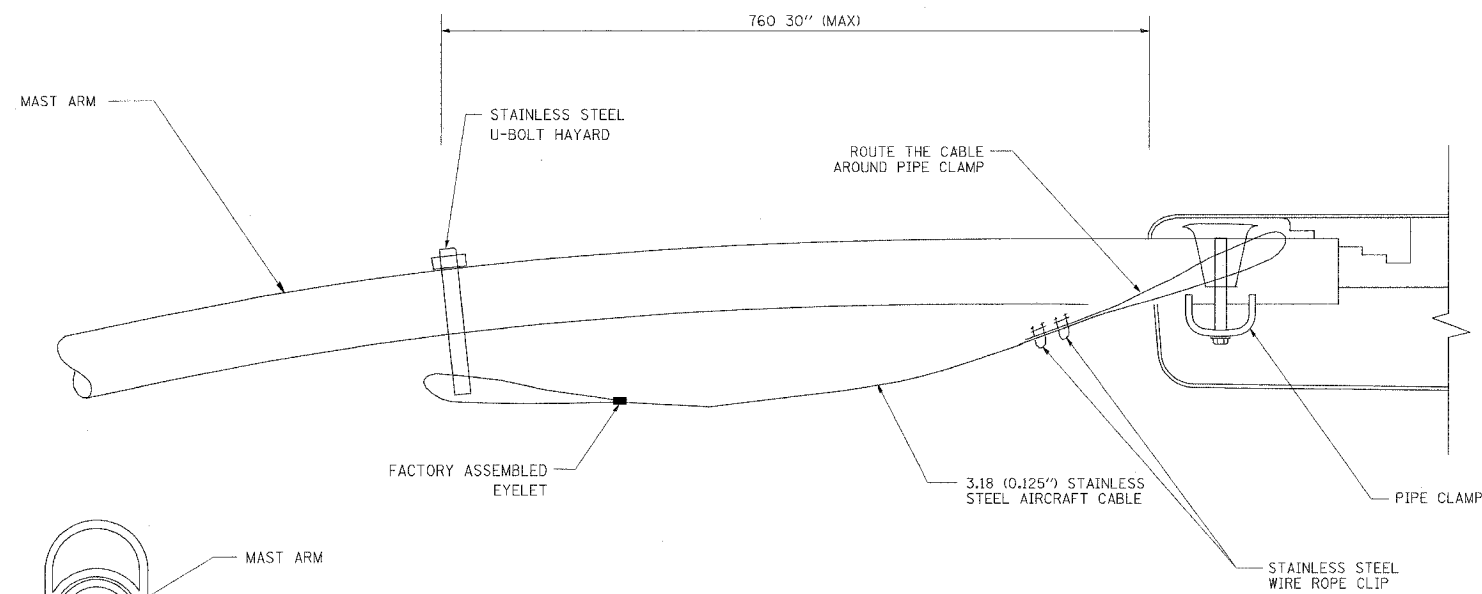
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
			283	224T
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



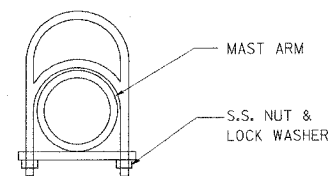
SIDE VIEW (TRUSS ARM)
N.T.S.



BOTTOM VIEW
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



STAINLESS STEEL U-BOLT HAYARD

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 3.18 (0.125 inch) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN

1 - ADDED SHEET 1-3-07

REVISIONS	
NAME	DATE

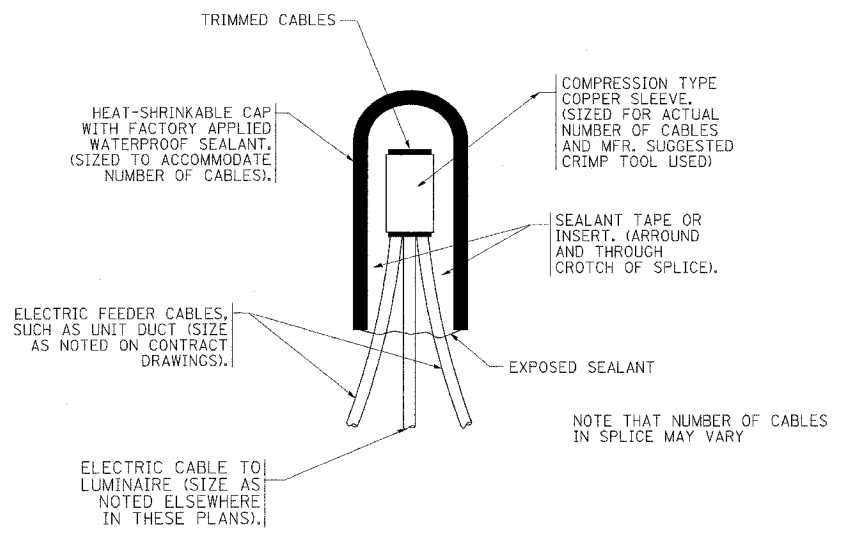
ILLINOIS DEPARTMENT OF TRANSPORTATION

**LUMINAIRE SAFETY
CABLE ASSEMBLY**

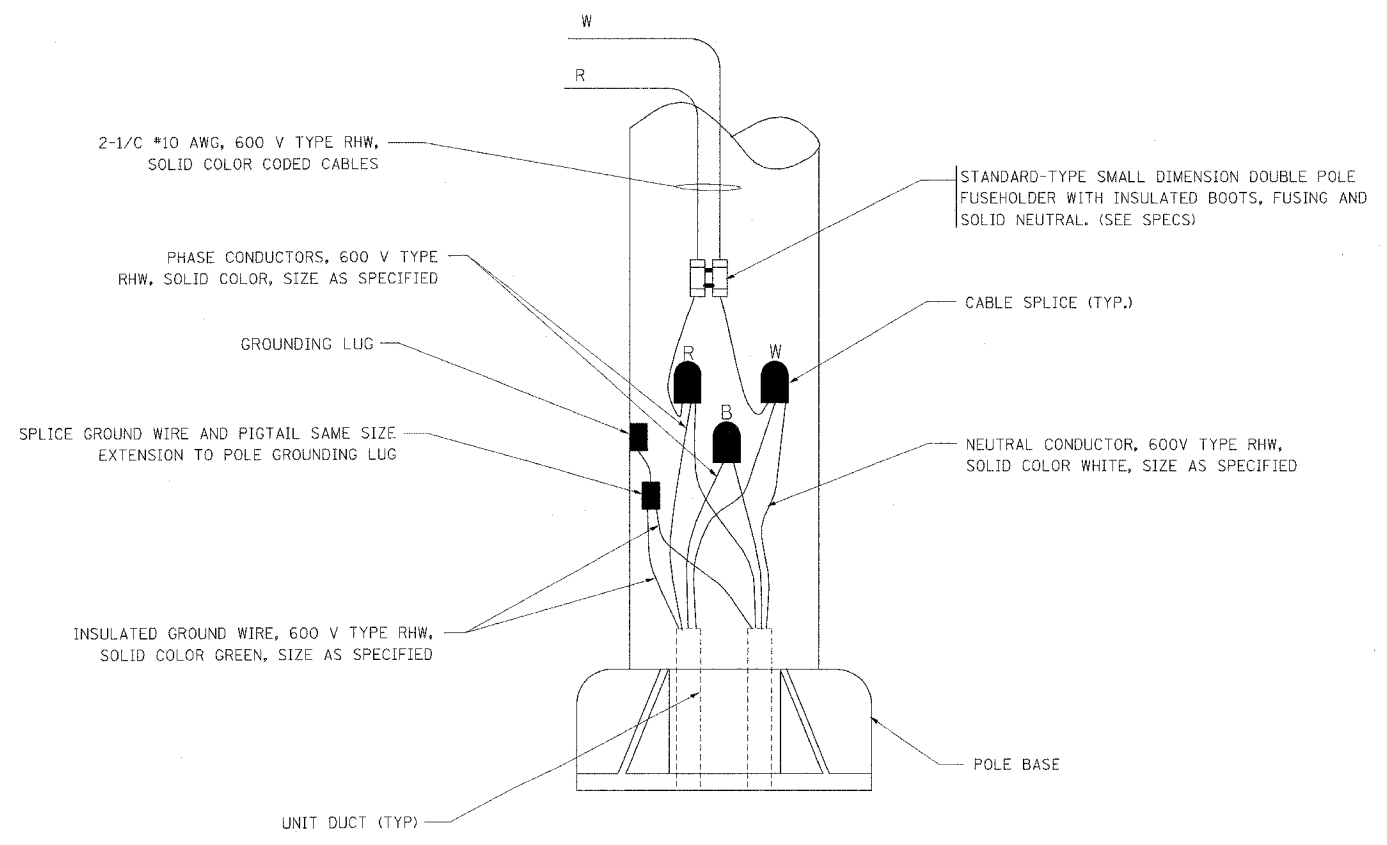
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DATE 05/19/2003

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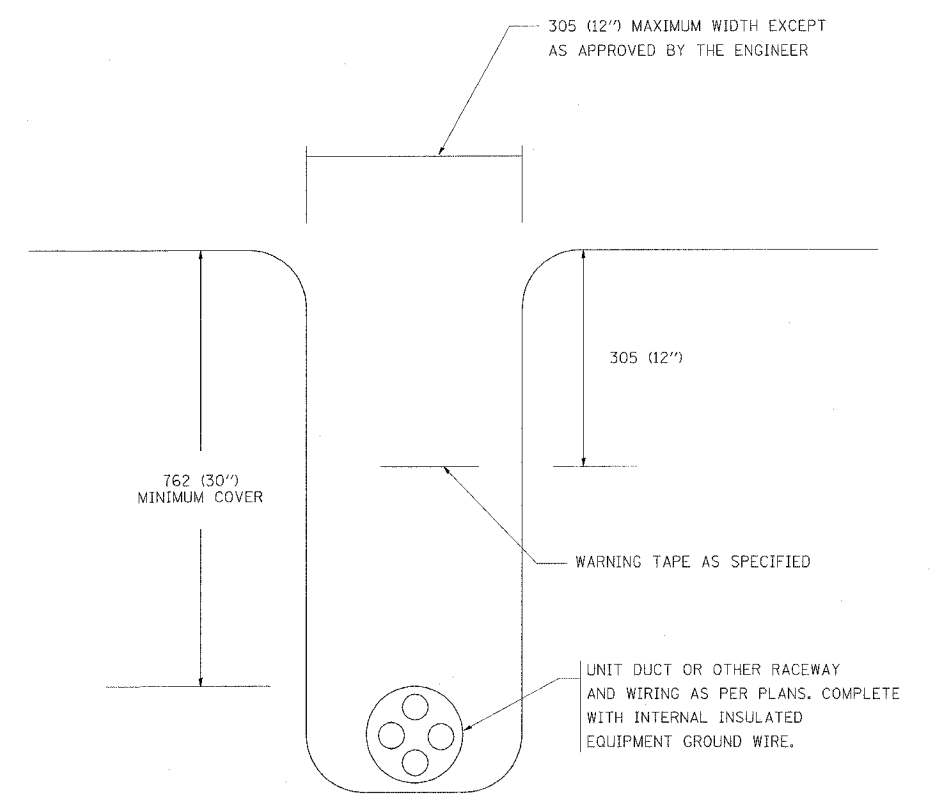
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			283	224U
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL SPLICE DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.

1 - ADDED SHEET 1-3-07

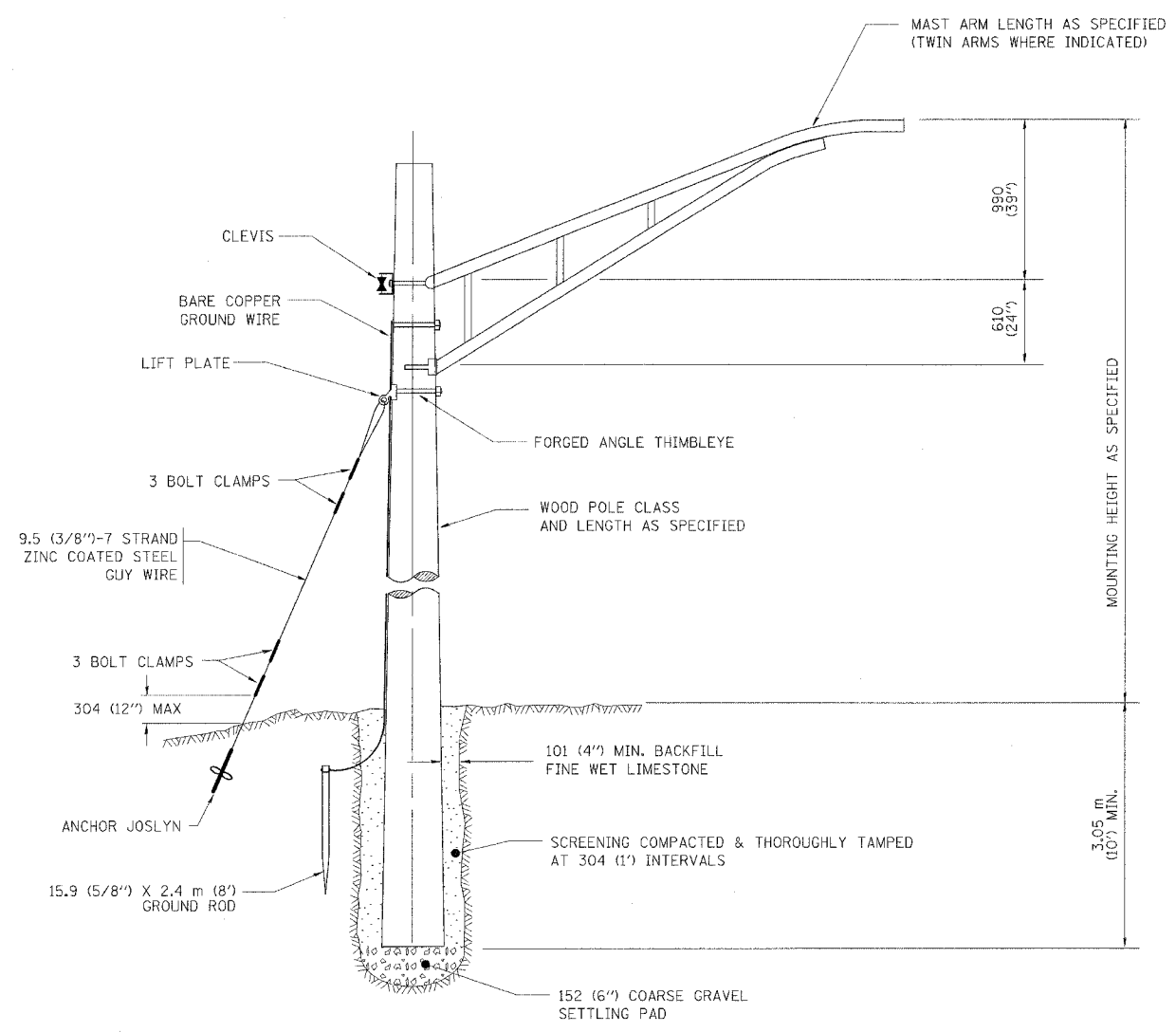
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

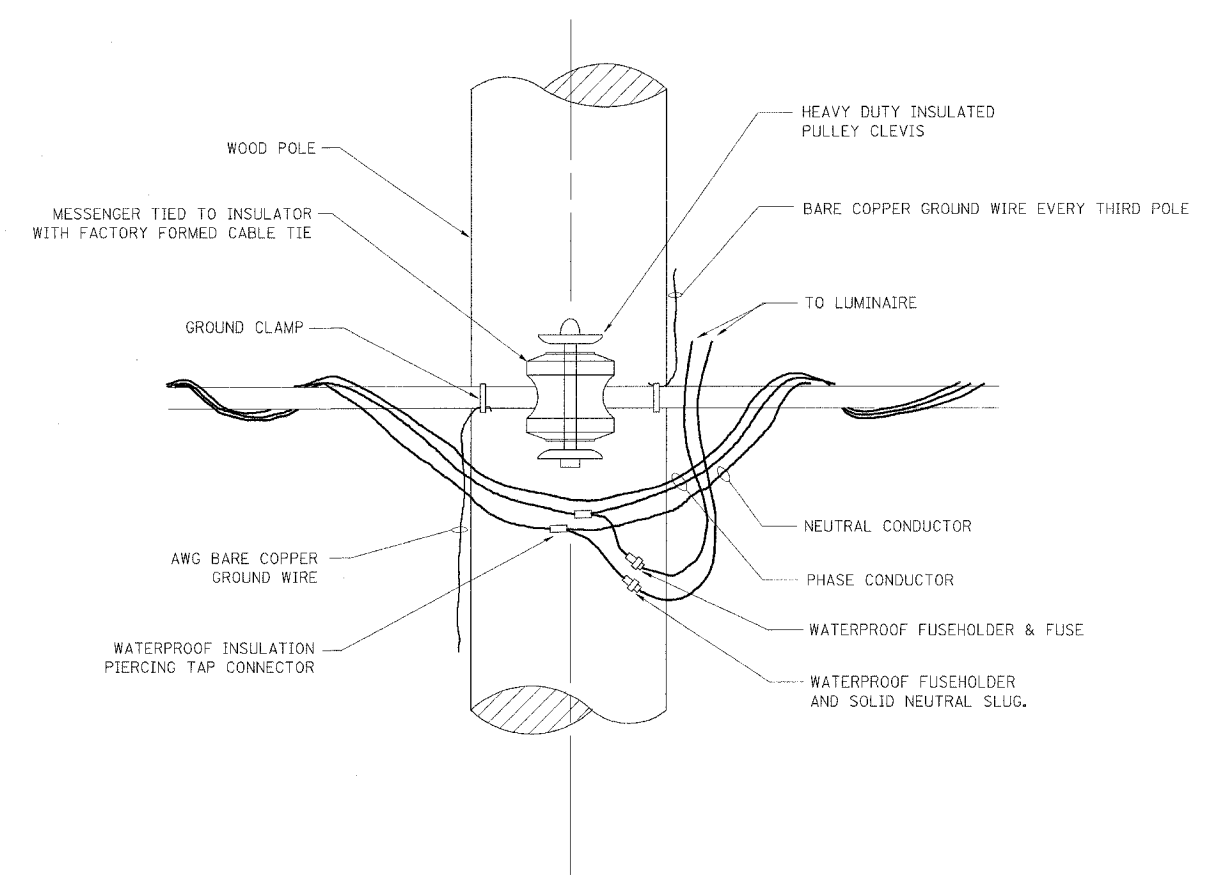
**MISC. ELECTRICAL DETAILS
SHEET A**

SCALE: NONE
DATE: 05/19/2003

DRAWN BY
CHECKED BY



TEMPORARY LIGHT POLE DETAIL



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTES:

1. ALL DIMENSIONS IN MILLIMETERS (INCHES) UNLESS OTHERWISE INDICATED

1 - ADDED SHEET 1-3-07

REVISIONS	
NAME	DATE

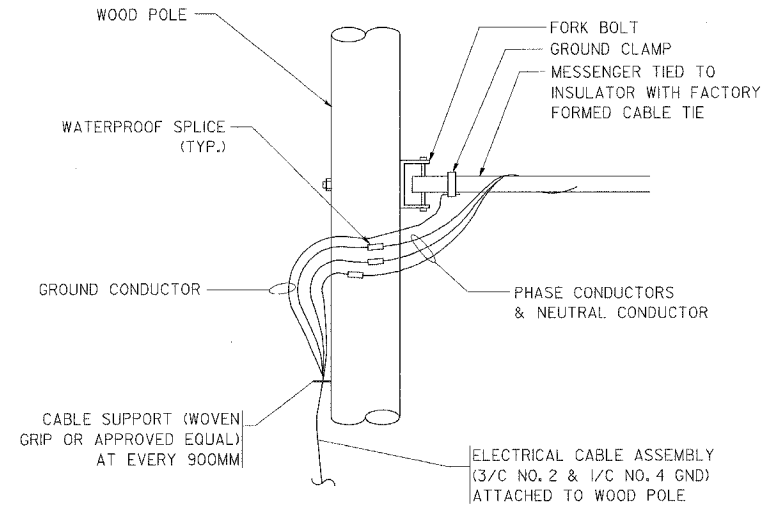
ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHT POLE
DETAILS

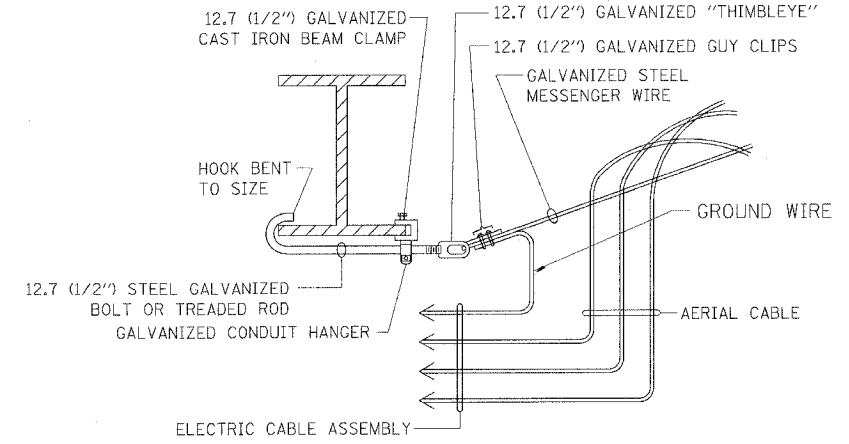
SCALE: NONE
DATE 05/20/2003

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			283	224W
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

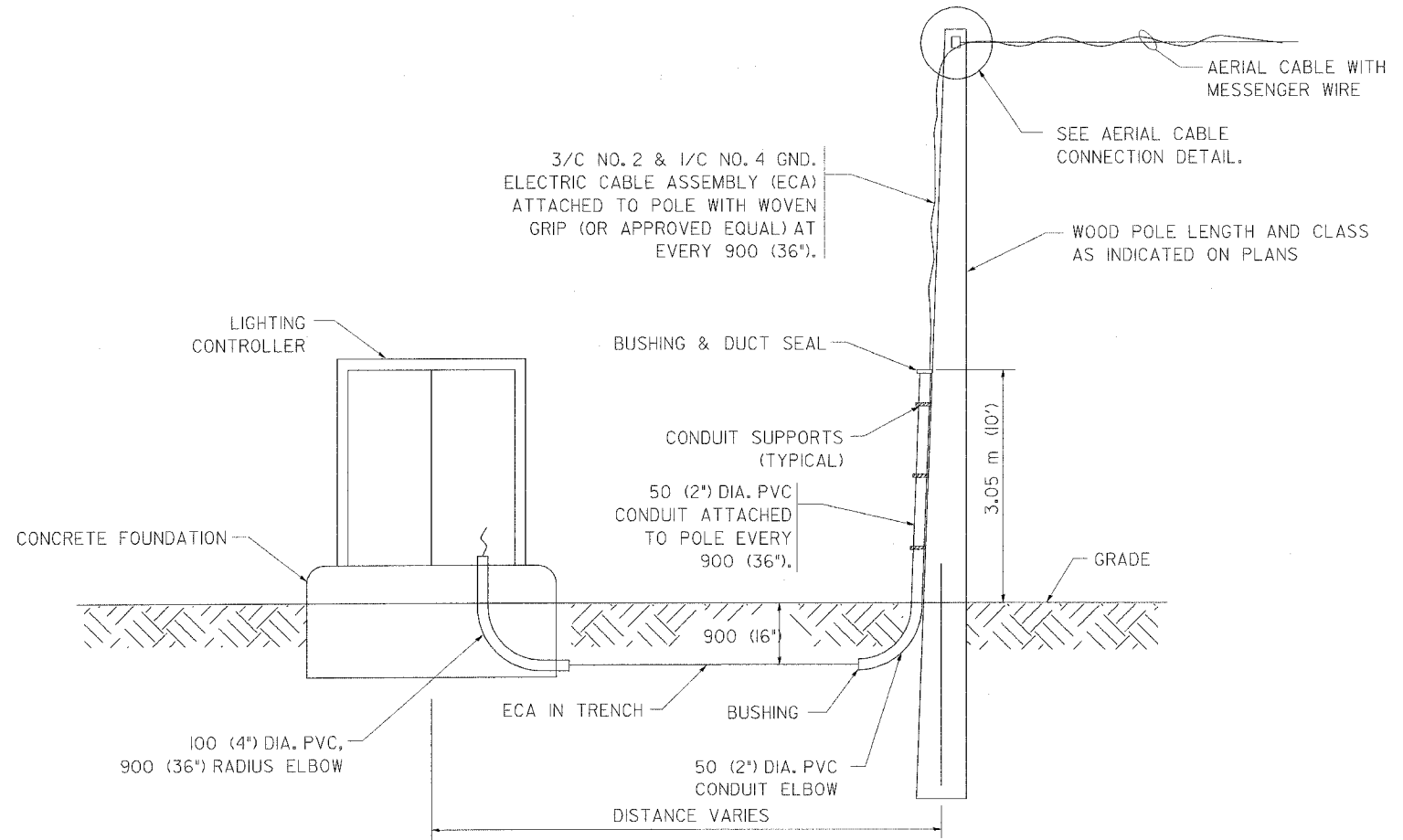


AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

- NOTES:**
1. ALL DIMENSIONS IN MILLIMETERS (INCHES) UNLESS OTHERWISE INDICATED.
 2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
 3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
 4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

1 - ADDED SHEET 1-3-07

REVISIONS	
NAME	DATE

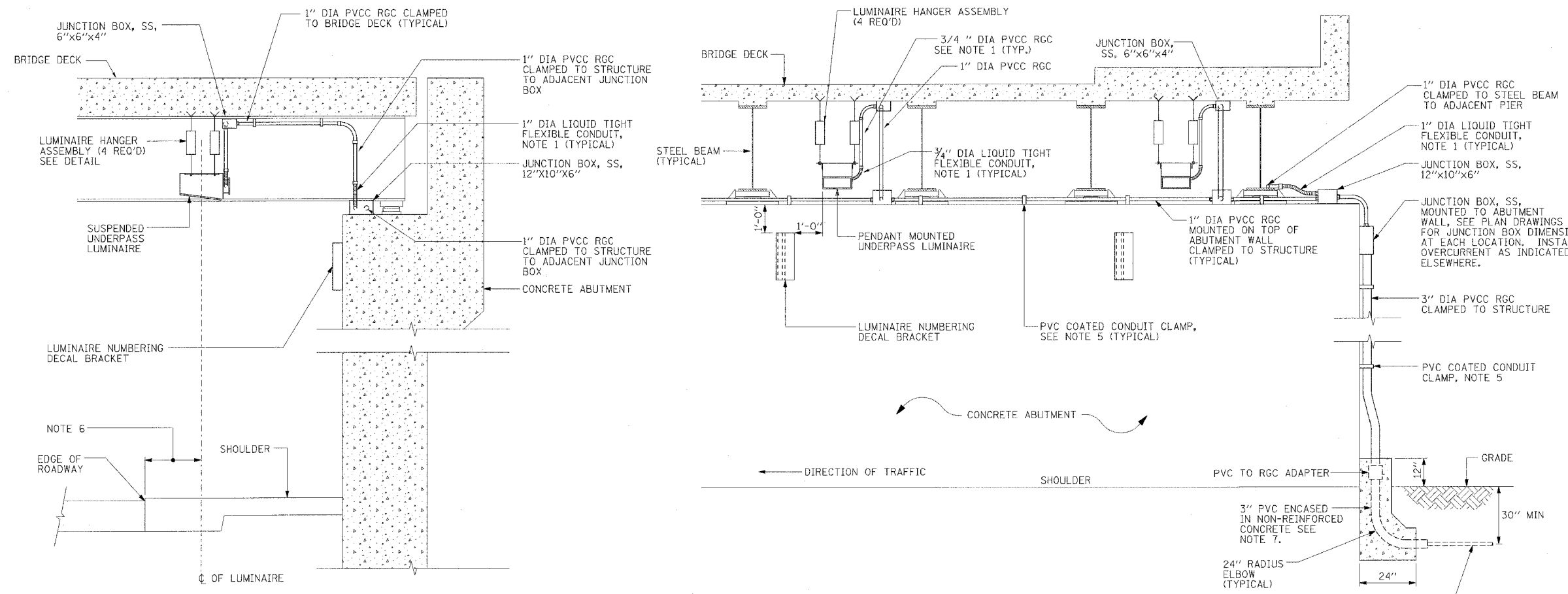
ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY AERIAL CABLE INSTALLATION

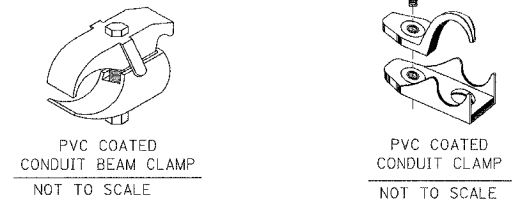
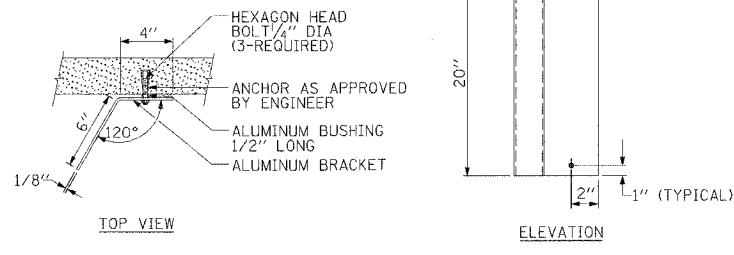
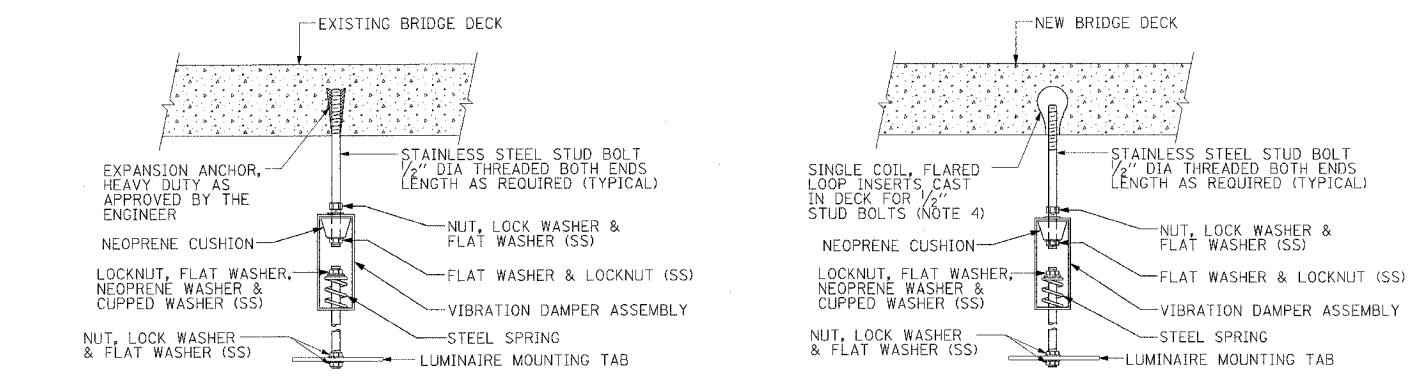
SCALE: NONE
DATE 05/21/2003

DRAWN BY
CHECKED BY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	283	224X
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



- NOTES:**
- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT 3/4" DIA. CONDUIT AND 3/4" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
 - SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
 - THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
 - THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
 - SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM.
 - ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS.
 - THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
 - ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.

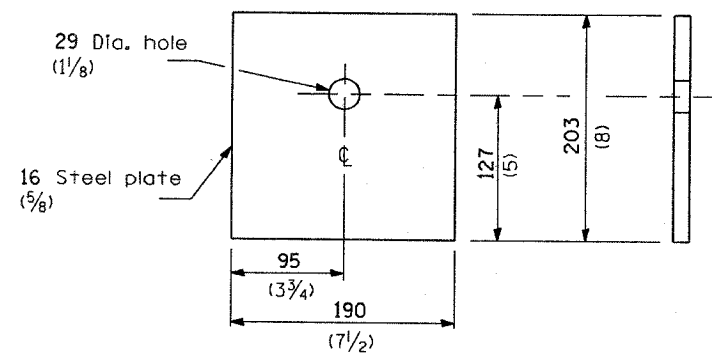


1 - ADDED SHEET 1-3-07

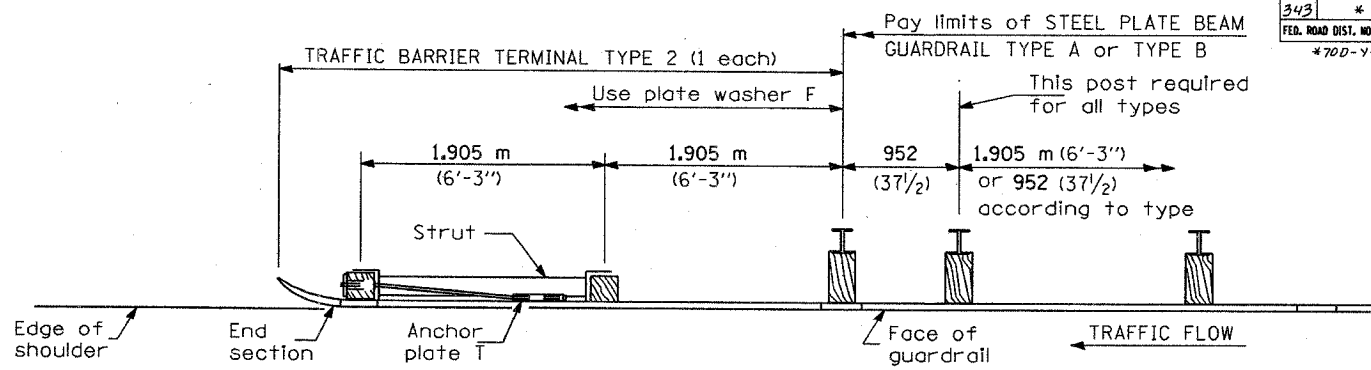
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS
 SCALE: NONE
 DATE: JANUARY, 2005
 DRAWN BY:
 CHECKED BY:

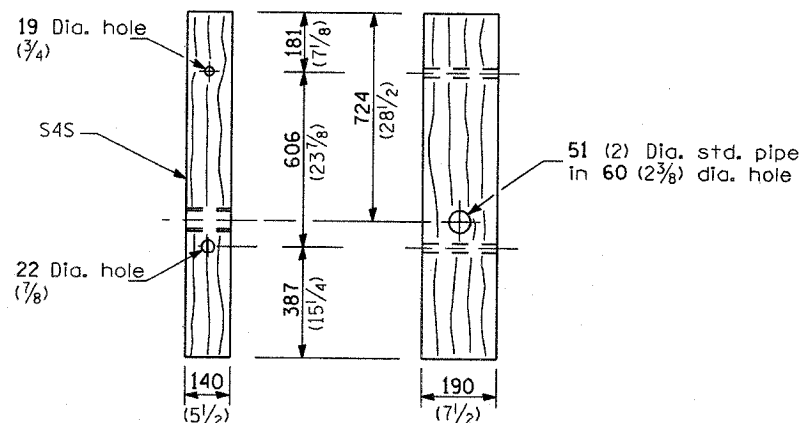
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	224Y
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
*700-Y-B-R & 70HB-R-1				



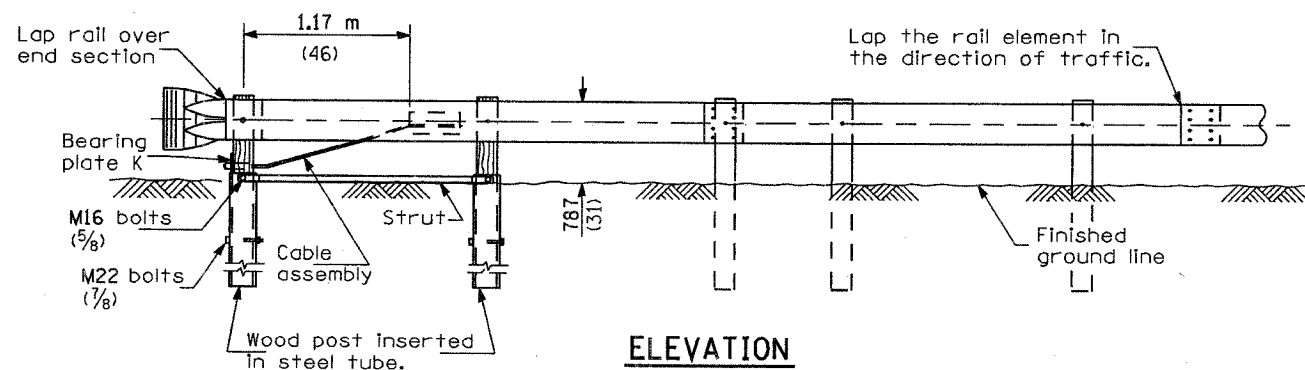
BEARING PLATE K



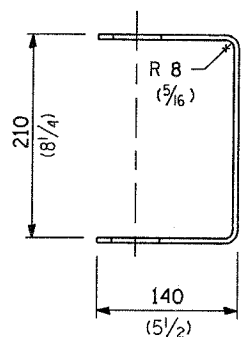
PLAN



WOOD POST

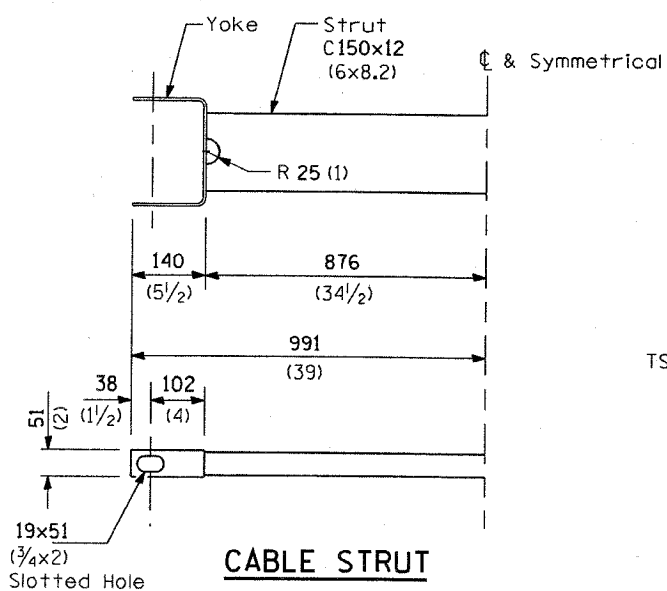


ELEVATION

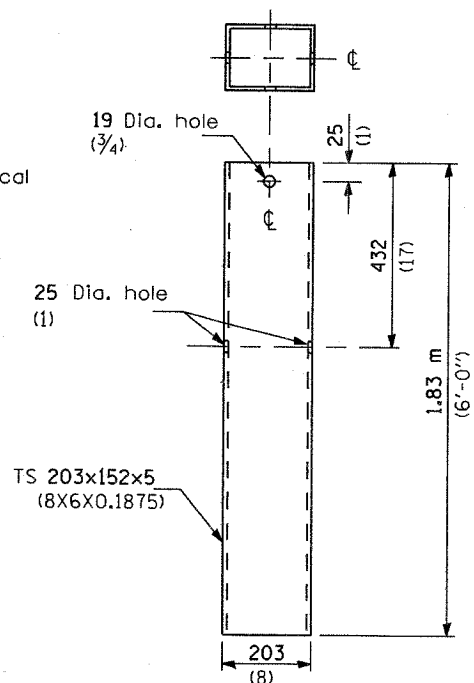


YOKE

5 (3/8) thick steel



CABLE STRUT



STEEL TUBE

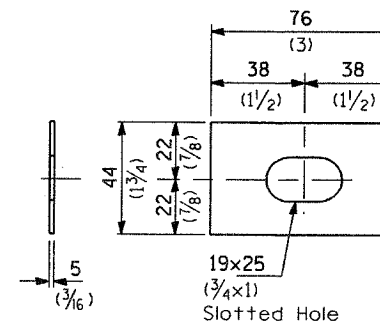


PLATE WASHER F

GENERAL NOTES

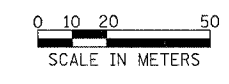
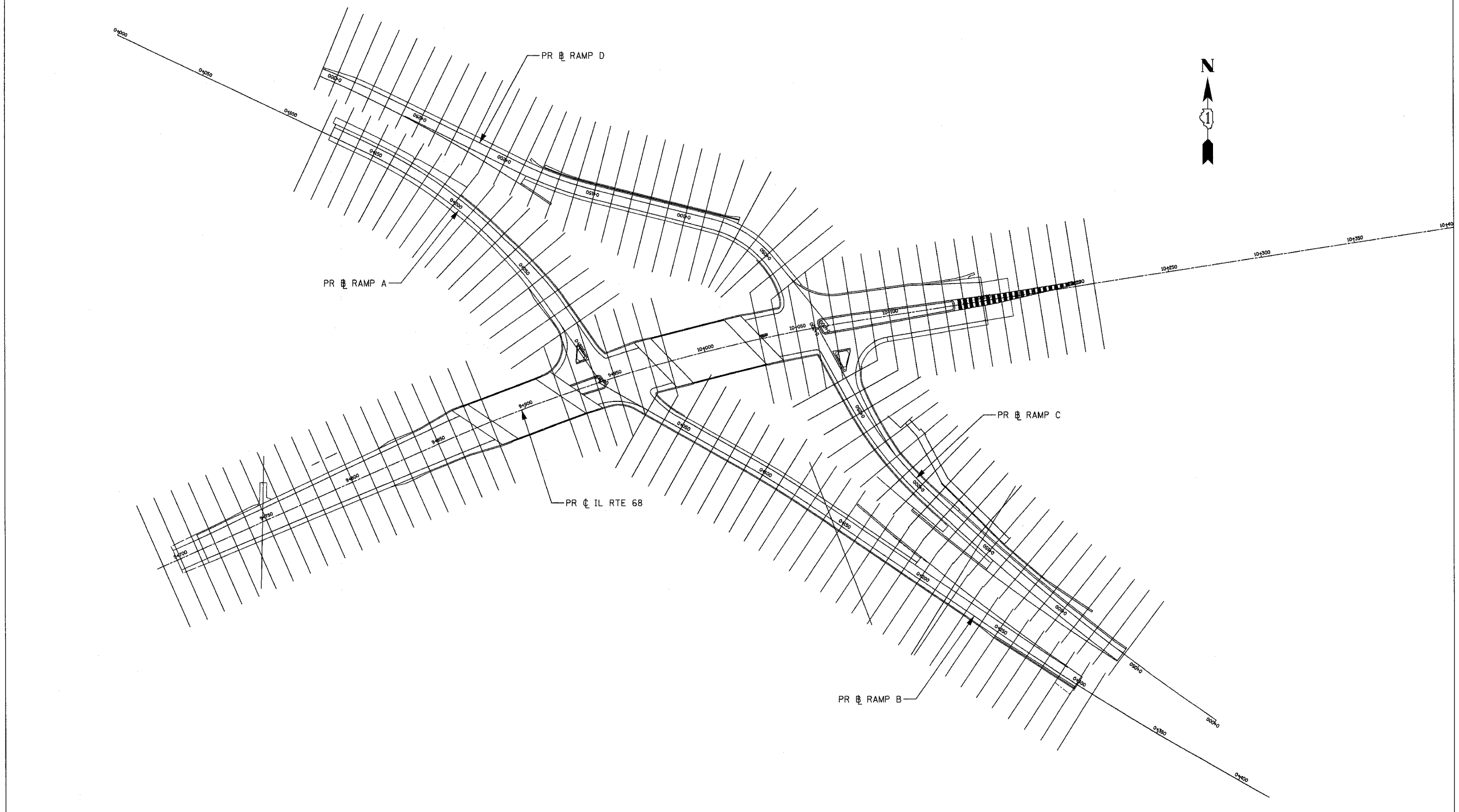
See Standard 630001 for details of guardrail not shown.

The bearing plate K shall be held in position by (2) two eight penny nails driven into the post and bent over the top of the plate.

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

TRAFFIC BARRIER TERMINAL, TYPE 2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	225
STA. 9+713.000		TO STA. 10+151.000		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
* 70D-Y-B-R & 70HB-R-1		62897		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 68

CROSS SECTIONS KEY PLAN

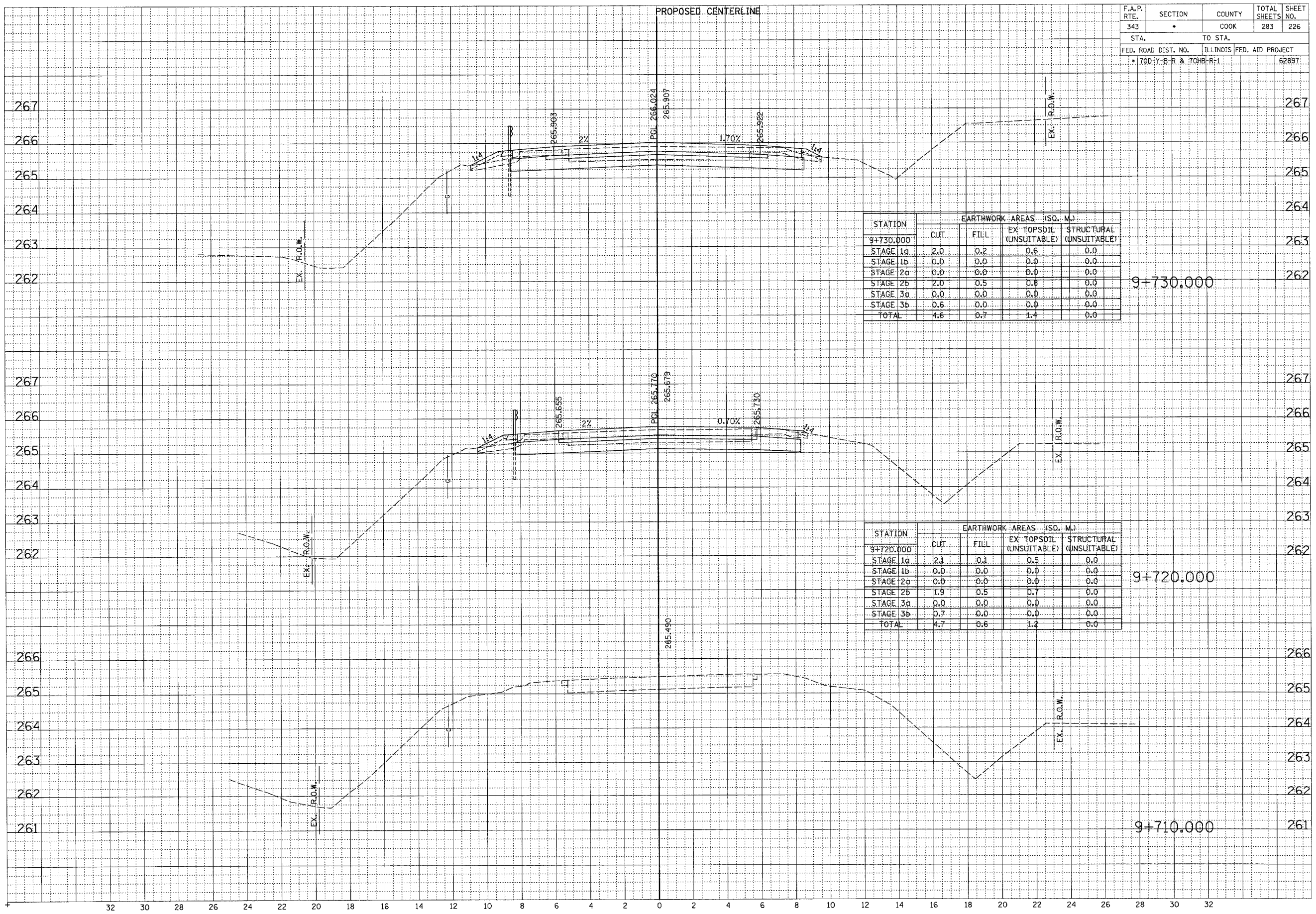
SCALE 1:1000
DATE OCTOBER, 2006

DRAWN BY GRH
CHECKED BY PK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	•	COOK	283	226
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• 700-Y-B-R & 704B-R-1				62897

FINAL SURVEY	REVIEWED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMP. PLATE	
	AREAS CHECKED	

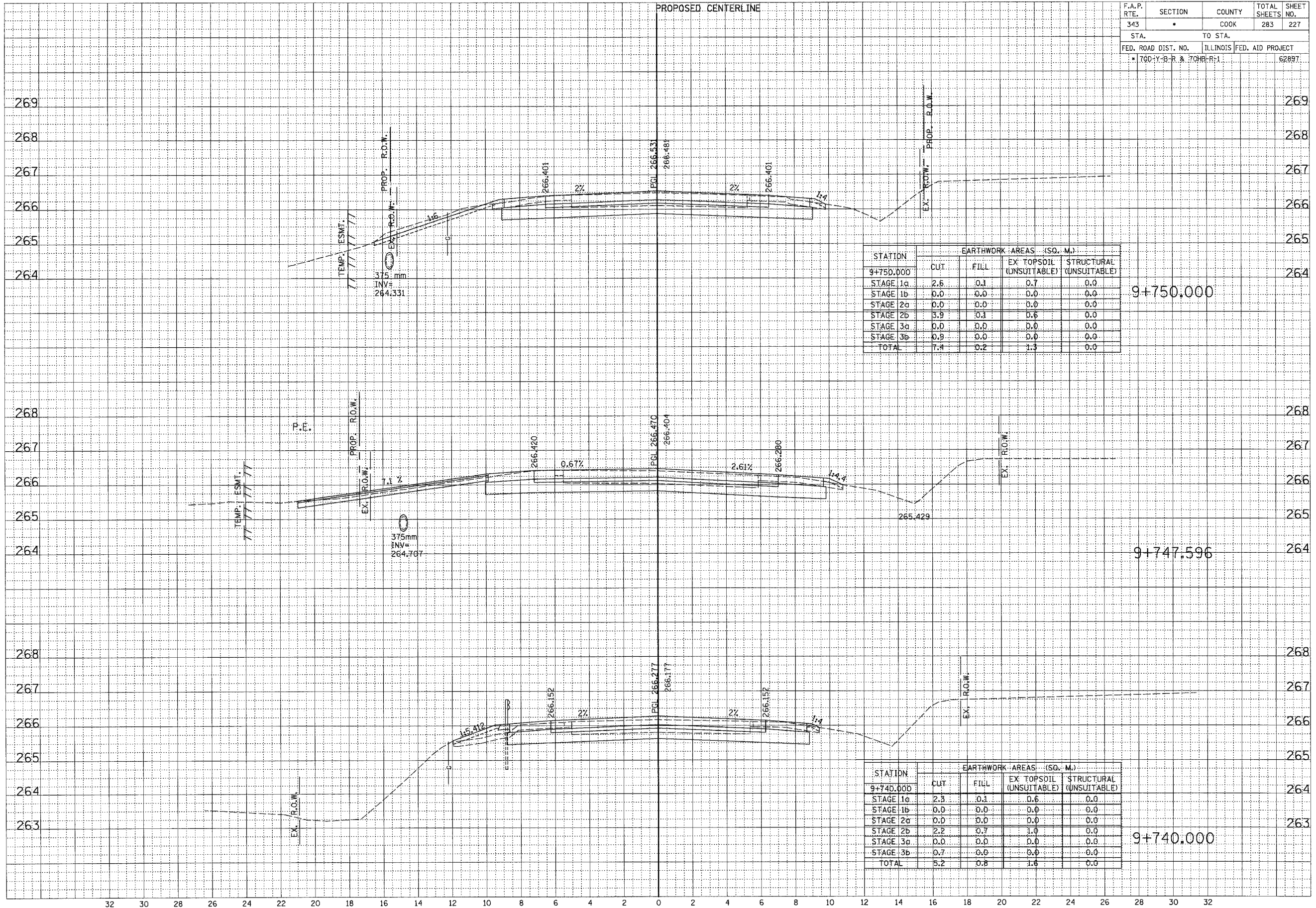
ORIGINAL SURVEY	REVIEWED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMP. PLATE	
	AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	227
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 70D-Y-B-R & 70HR-R-1		62897		

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

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



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+750.000				
STAGE 1a	2.6	0.1	0.7	0.0
STAGE 1b	0.0	0.0	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	3.9	0.1	0.6	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	0.9	0.0	0.0	0.0
TOTAL	7.4	0.2	1.3	0.0

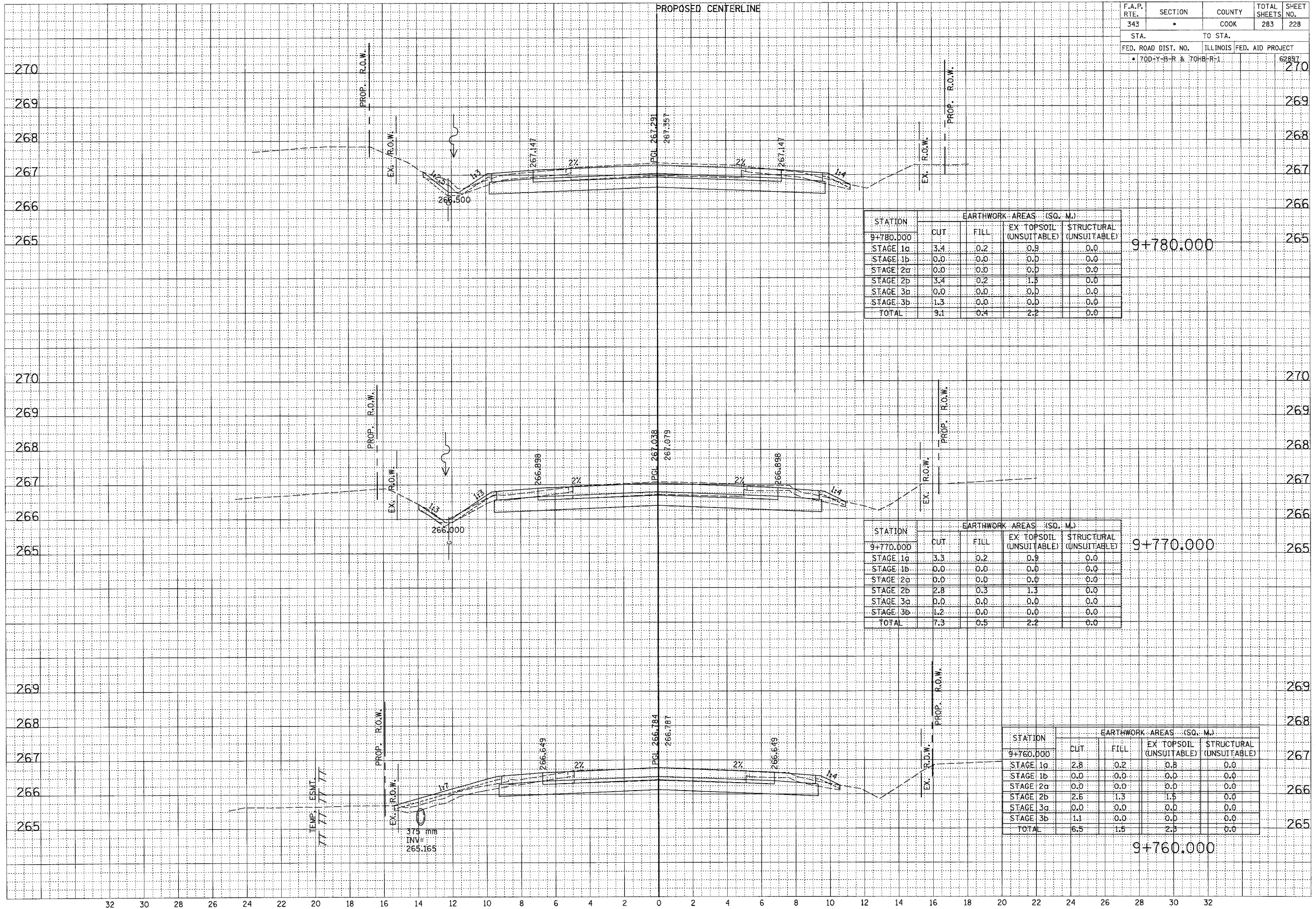
STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+740.000				
STAGE 1a	2.3	0.1	0.6	0.0
STAGE 1b	0.0	0.0	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	2.2	0.7	1.0	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	0.7	0.0	0.0	0.0
TOTAL	5.2	0.8	1.6	0.0

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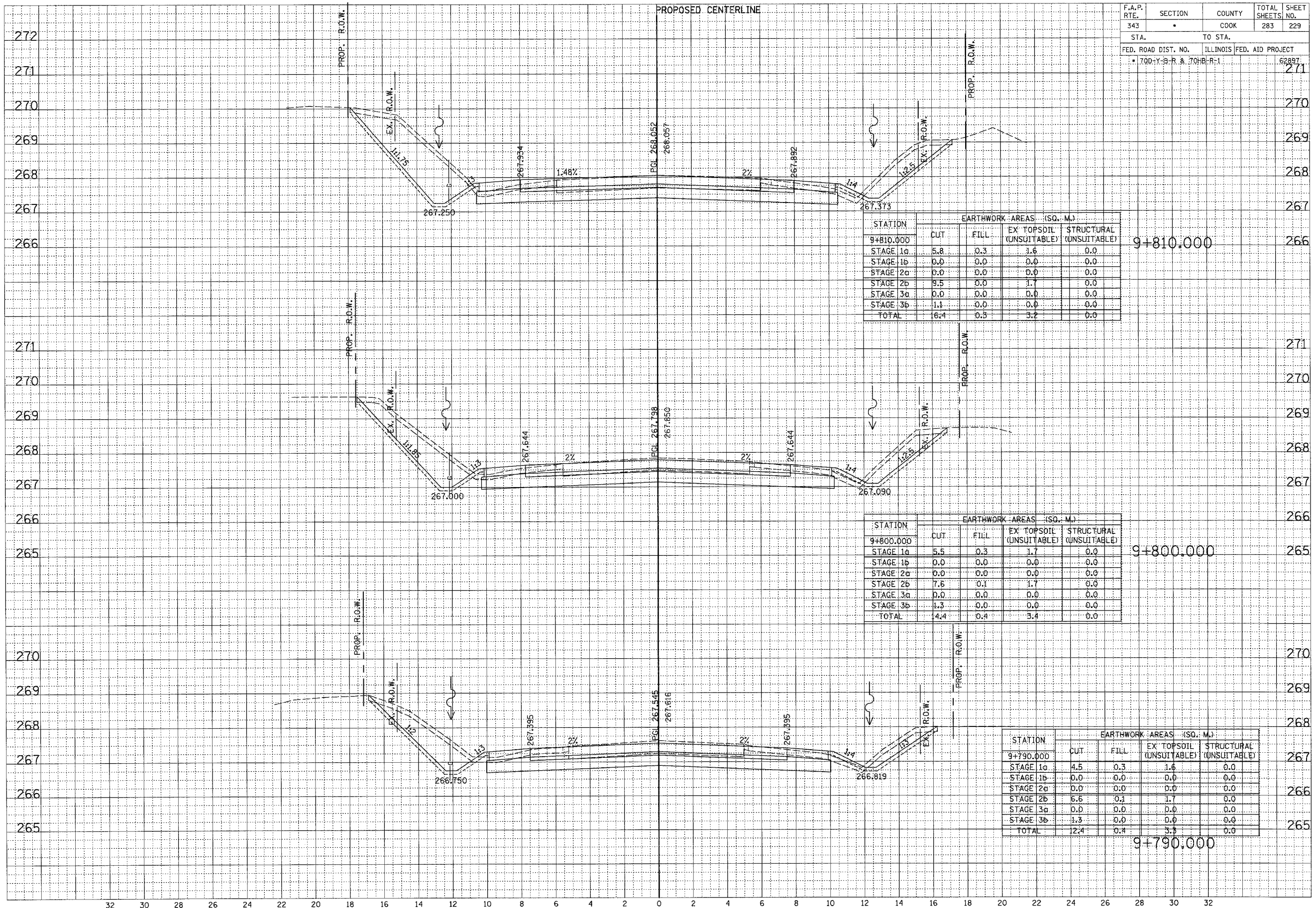
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	228
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 70D-Y-B-R & 70HB-R-1		6285T		

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	REPLATE	
	AREAS CHECKED	

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343		COOK	283	229
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• 700-Y-9-R & 704B-R-1			62897	



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+810.000				
STAGE 1a	5.8	0.3	1.6	0.0
STAGE 1b	0.0	0.0	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	9.5	0.0	1.7	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	1.1	0.0	0.0	0.0
TOTAL	16.4	0.3	3.2	0.0

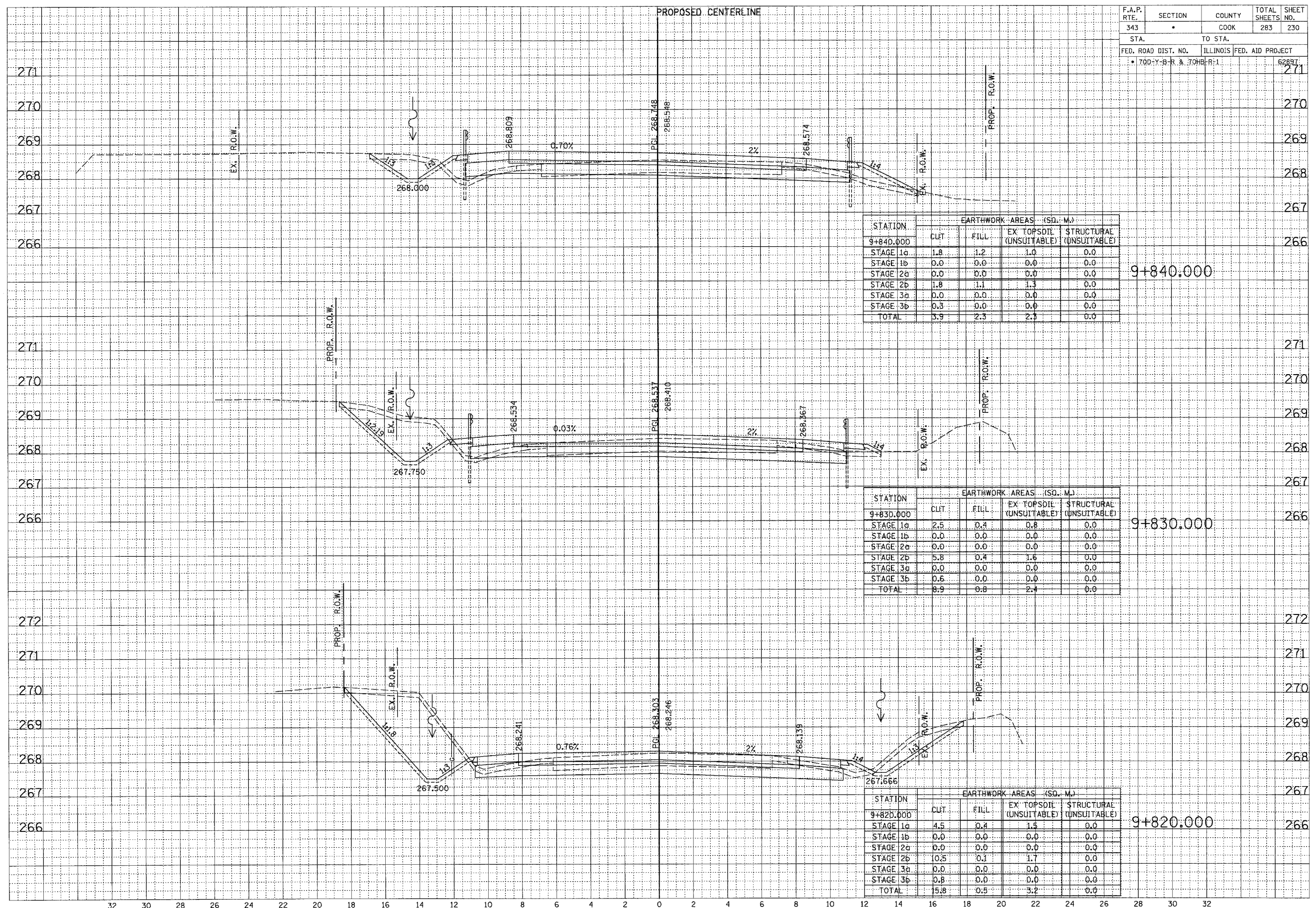
STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+800.000				
STAGE 1a	5.5	0.3	1.7	0.0
STAGE 1b	0.0	0.0	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	7.6	0.1	1.7	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	1.3	0.0	0.0	0.0
TOTAL	14.4	0.4	3.4	0.0

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+790.000				
STAGE 1a	4.5	0.3	1.6	0.0
STAGE 1b	0.0	0.0	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	6.6	0.1	1.7	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	1.3	0.0	0.0	0.0
TOTAL	12.4	0.4	3.3	0.0

FINAL SURVEY	REVIEWED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	REVIEWED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	230
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 700-Y-B-R & 704B-R-1		6289T		271



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+840.000				
STAGE 1a	1.8	1.2	1.0	0.0
STAGE 1b	0.0	0.0	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	1.8	1.1	1.3	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	0.3	0.0	0.0	0.0
TOTAL	3.9	2.3	2.3	0.0

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+830.000				
STAGE 1a	2.5	0.4	0.8	0.0
STAGE 1b	0.0	0.0	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	5.8	0.4	1.6	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	0.6	0.0	0.0	0.0
TOTAL	8.9	0.8	2.4	0.0

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+820.000				
STAGE 1a	4.5	0.4	1.5	0.0
STAGE 1b	0.0	0.0	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	10.5	0.1	1.7	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	0.8	0.0	0.0	0.0
TOTAL	15.8	0.5	3.2	0.0

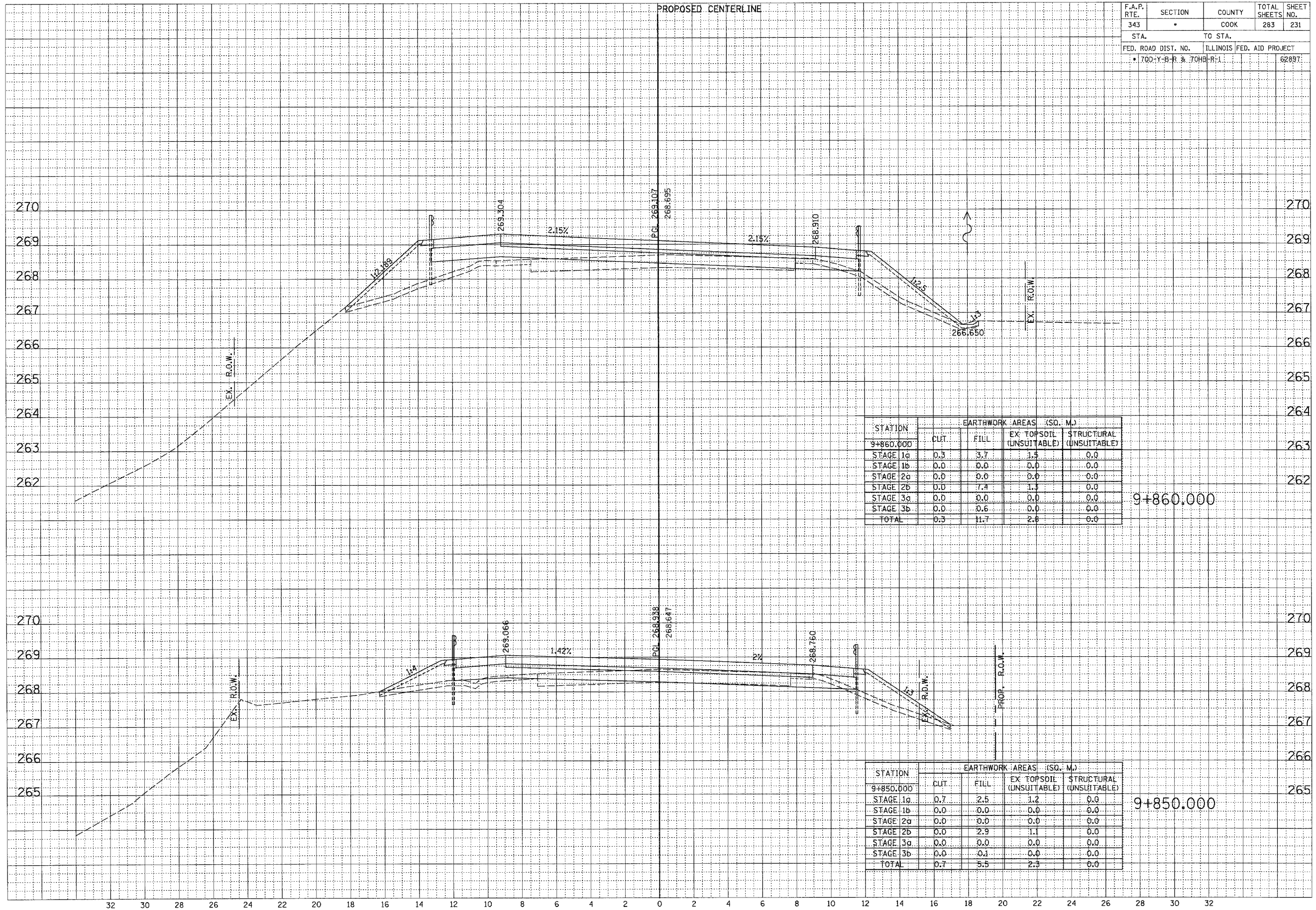
DATE: _____
 BY: _____
 FINISHED SURVEY: _____
 SURVEY: _____
 NOTE BOOK: _____
 AREA: _____
 CHECKED: _____

DATE: _____
 BY: _____
 ORIGINAL SURVEY: _____
 SURVEY: _____
 NOTE BOOK: _____
 AREA: _____
 CHECKED: _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	231
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• 70D-Y-B-R & 70HB-R-L			62897	

DATE	BY
REVIEWED	DATE
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	BY
REVIEWED	DATE
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



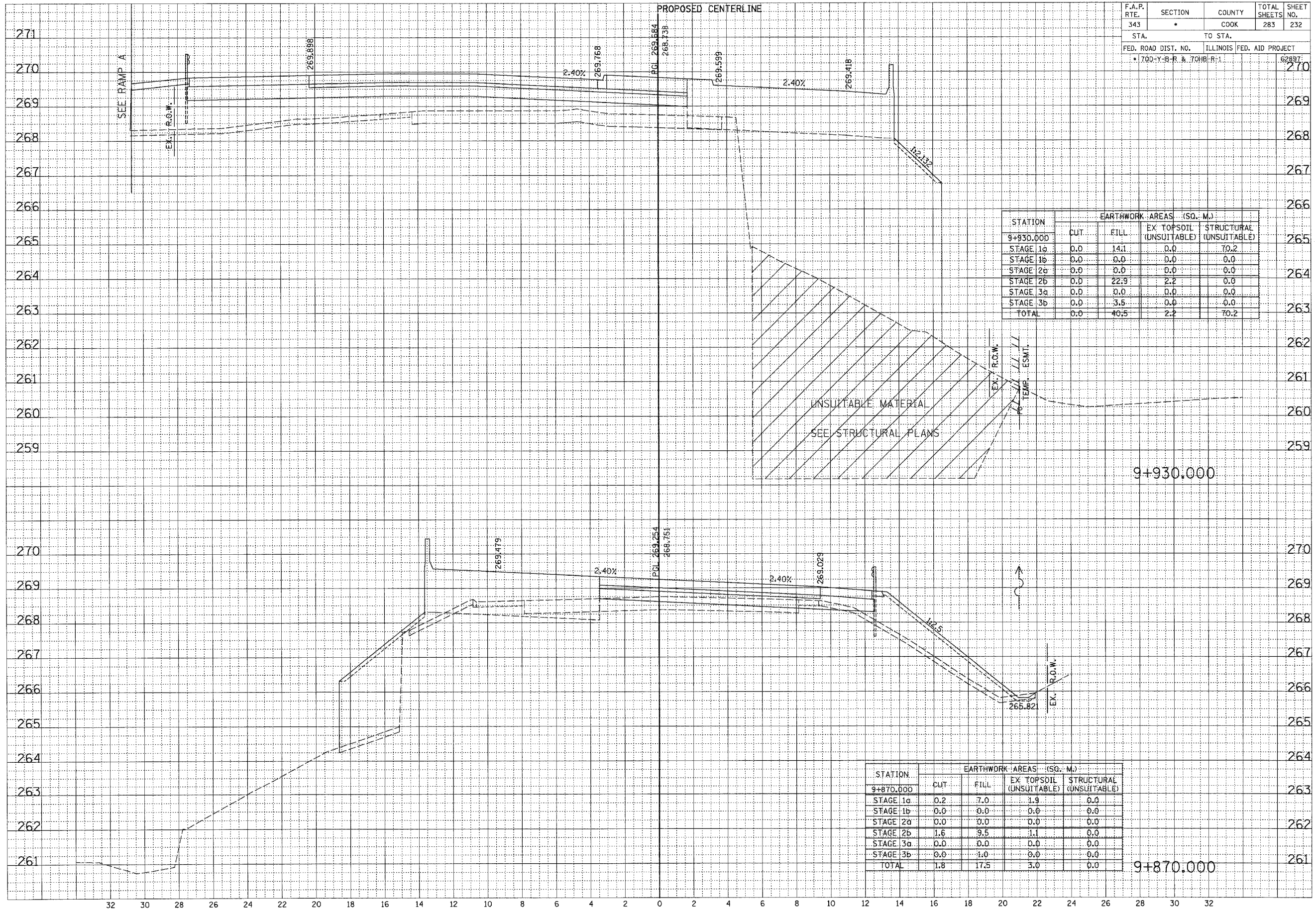
STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+860.000				
STAGE 1a	0.3	3.7	1.5	0.0
STAGE 1b	0.0	0.0	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	0.0	7.4	1.3	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	0.0	0.6	0.0	0.0
TOTAL	0.3	11.7	2.8	0.0

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+850.000				
STAGE 1a	0.7	2.5	1.2	0.0
STAGE 1b	0.0	0.0	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	0.0	2.9	1.1	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	0.0	0.1	0.0	0.0
TOTAL	0.7	5.5	2.3	0.0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	232
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* 700-Y-B-R & 700B-R-1			6289T	

FINAL SURVEY	REVISIONS	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	REVISIONS	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS CHECKED	



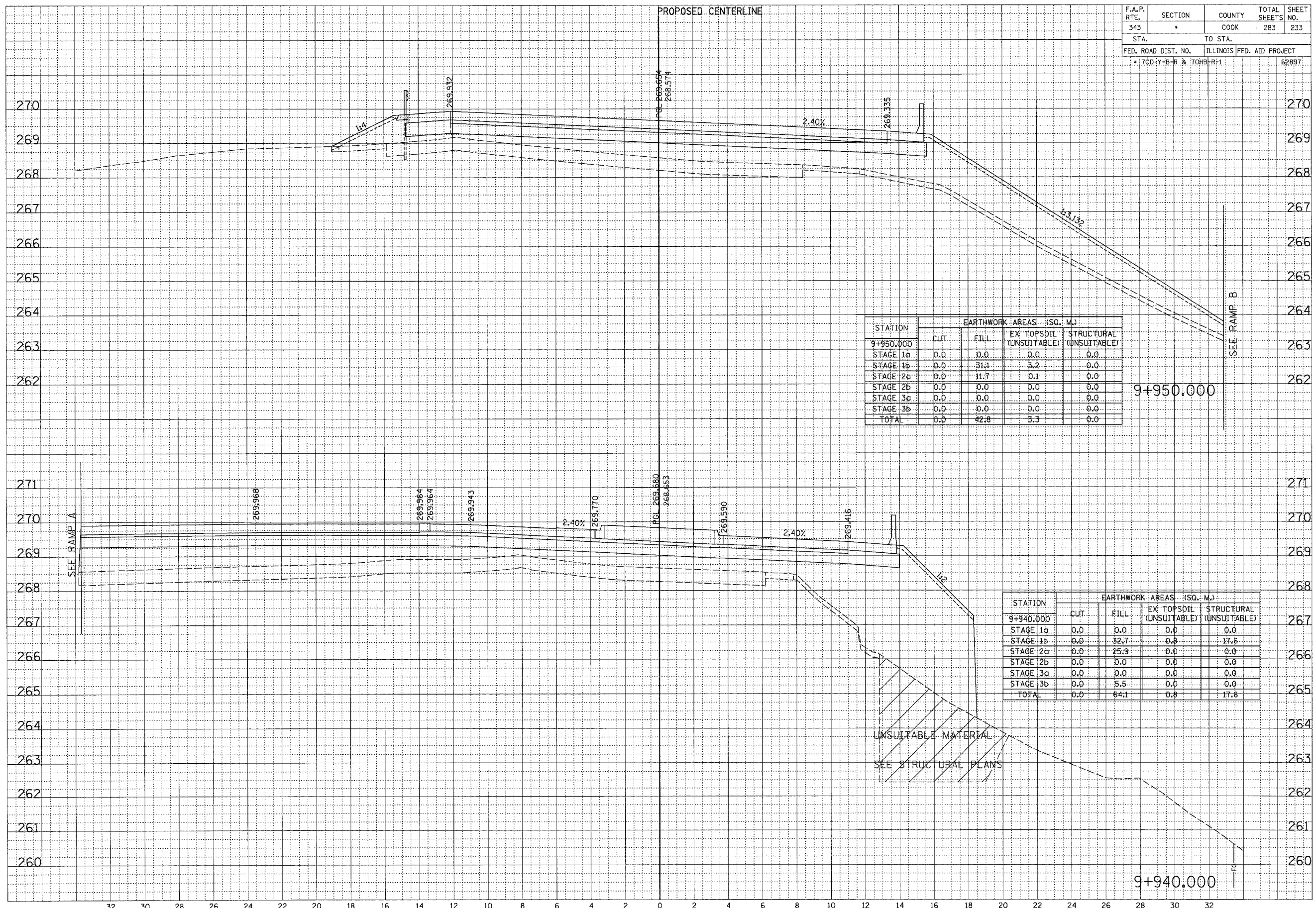
STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+930.000				
STAGE 1a	0.0	14.1	0.0	70.2
STAGE 1b	0.0	0.0	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	0.0	22.9	2.2	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	0.0	3.5	0.0	0.0
TOTAL	0.0	40.5	2.2	70.2

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+870.000				
STAGE 1a	0.2	7.0	1.9	0.0
STAGE 1b	0.0	0.0	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	1.6	9.5	1.1	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	0.0	1.0	0.0	0.0
TOTAL	1.8	17.5	3.0	0.0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	233
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
* 70D-Y-B-R & 70HB-R-1			62897	

DATE	BY
REVIEWED	DATE
PLANNED	
NOTE BOOK	
NO.	

DATE	BY
REVIEWED	DATE
PLANNED	
NOTE BOOK	
NO.	



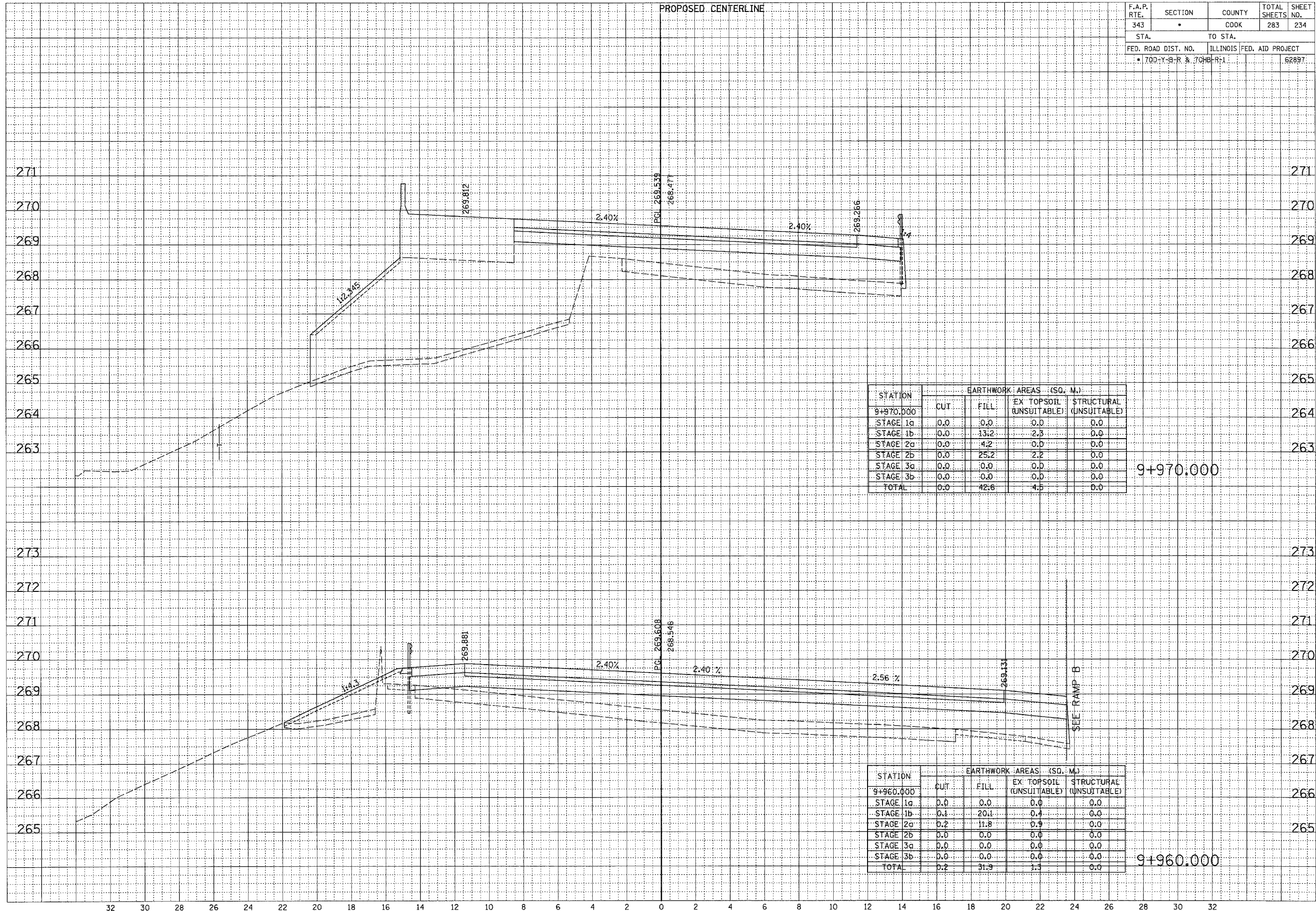
STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+950.000	0.0	0.0	0.0	0.0
STAGE 1a	0.0	31.1	3.2	0.0
STAGE 1b	0.0	11.7	0.1	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	0.0	0.0	0.0	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	0.0	0.0	0.0	0.0
TOTAL	0.0	42.8	3.3	0.0

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+940.000	0.0	0.0	0.0	0.0
STAGE 1a	0.0	32.7	0.8	17.6
STAGE 1b	0.0	25.9	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	0.0	0.0	0.0	0.0
STAGE 3a	0.0	5.5	0.0	0.0
STAGE 3b	0.0	0.0	0.0	0.0
TOTAL	0.0	64.1	0.8	17.6

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	•	COOK	283	234
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• 700-Y-B-R & 700-B-R-1		62897		

FINAL SURVEY NOTE BOOK NO.	SURVEYED	DATE
	PLOTTED	
	TEMPERATURE	
	AREAS CHECKED	

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



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+970.000	0.0	0.0	0.0	0.0
STAGE 1a	0.0	0.0	0.0	0.0
STAGE 1b	0.0	13.2	2.3	0.0
STAGE 2a	0.0	4.2	0.0	0.0
STAGE 2b	0.0	25.2	2.2	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	0.0	0.0	0.0	0.0
TOTAL	0.0	42.6	4.5	0.0

9+970.000

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
9+960.000	0.0	0.0	0.0	0.0
STAGE 1a	0.0	0.0	0.0	0.0
STAGE 1b	0.1	20.1	0.4	0.0
STAGE 2a	0.2	11.8	0.9	0.0
STAGE 2b	0.0	0.0	0.0	0.0
STAGE 3a	0.0	0.0	0.0	0.0
STAGE 3b	0.0	0.0	0.0	0.0
TOTAL	0.2	31.9	1.3	0.0

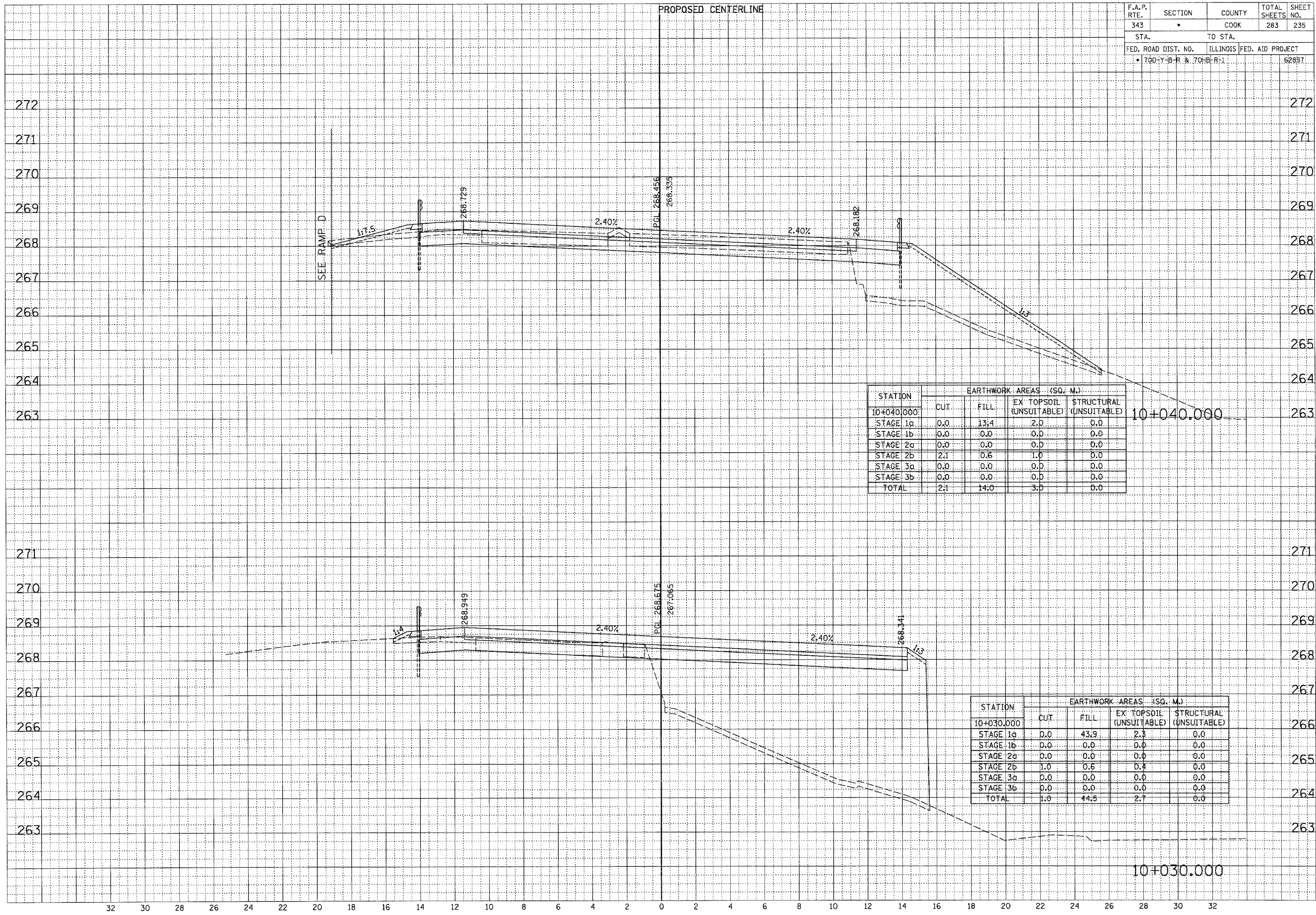
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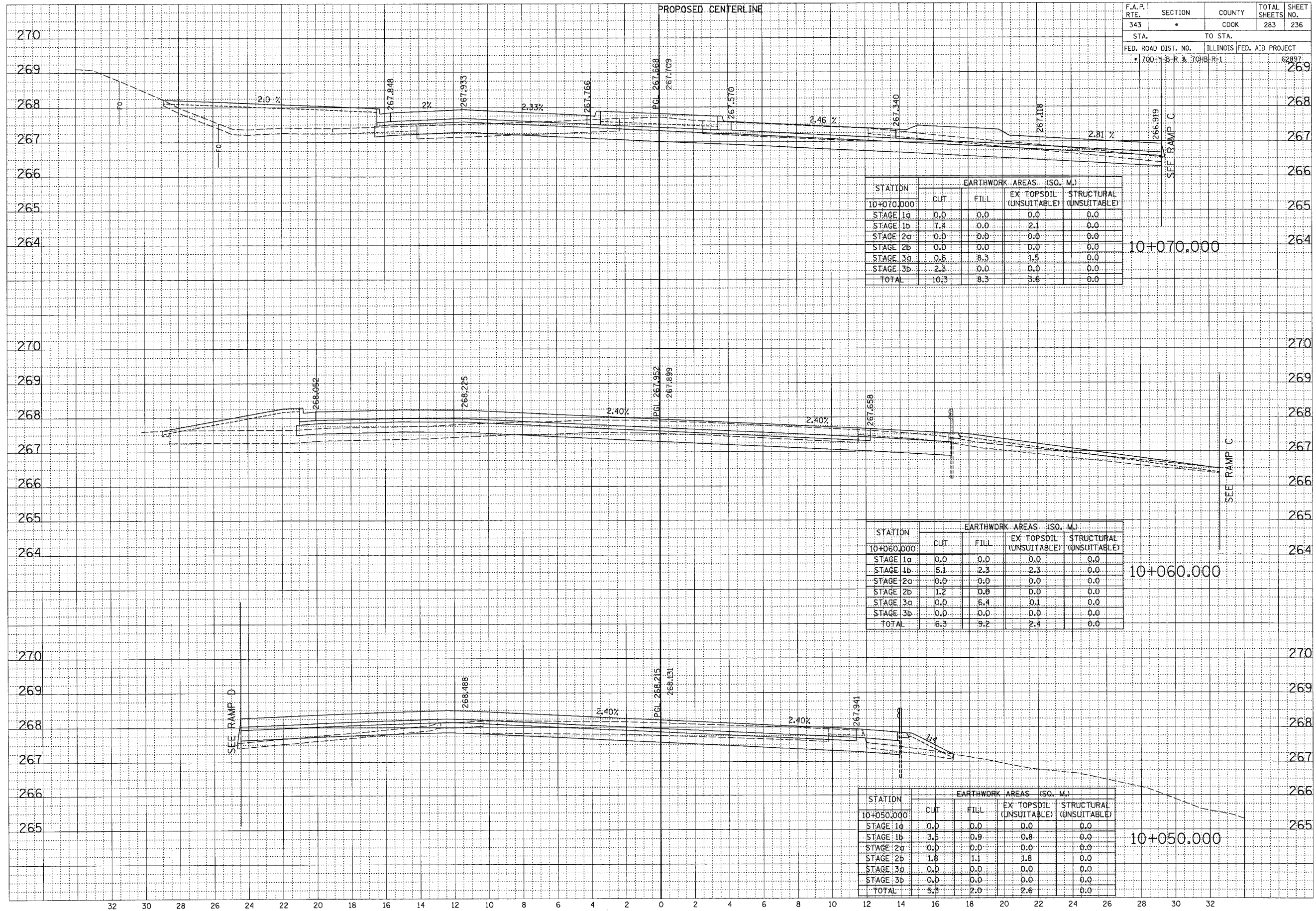
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	•	COOK	283	235
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• 700-Y-B-R & 704B-R-1			62897	

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

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	•	COOK	283	236
STA.	TO STA.			
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
• 700-Y-B-R & 700-B-R-1			62897	



FINAL SURVEY
NOTED BOOK
NO.

REVISIONS
DATE
BY

APPROVED
DATE
BY

DESIGNED
DATE
BY

CHECKED
DATE
BY

PLANNED
DATE
BY

CONSTRUCTION
DATE
BY

ORIGINAL SURVEY
NOTED BOOK
NO.

REVISIONS
DATE
BY

APPROVED
DATE
BY

DESIGNED
DATE
BY

CHECKED
DATE
BY

PLANNED
DATE
BY

CONSTRUCTION
DATE
BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	•	COOK	283	237
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• 700-Y-B-R & 700-B-R-1		62897		

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

ORIGINAL SURVEY	DATE
REVISIONS	BY
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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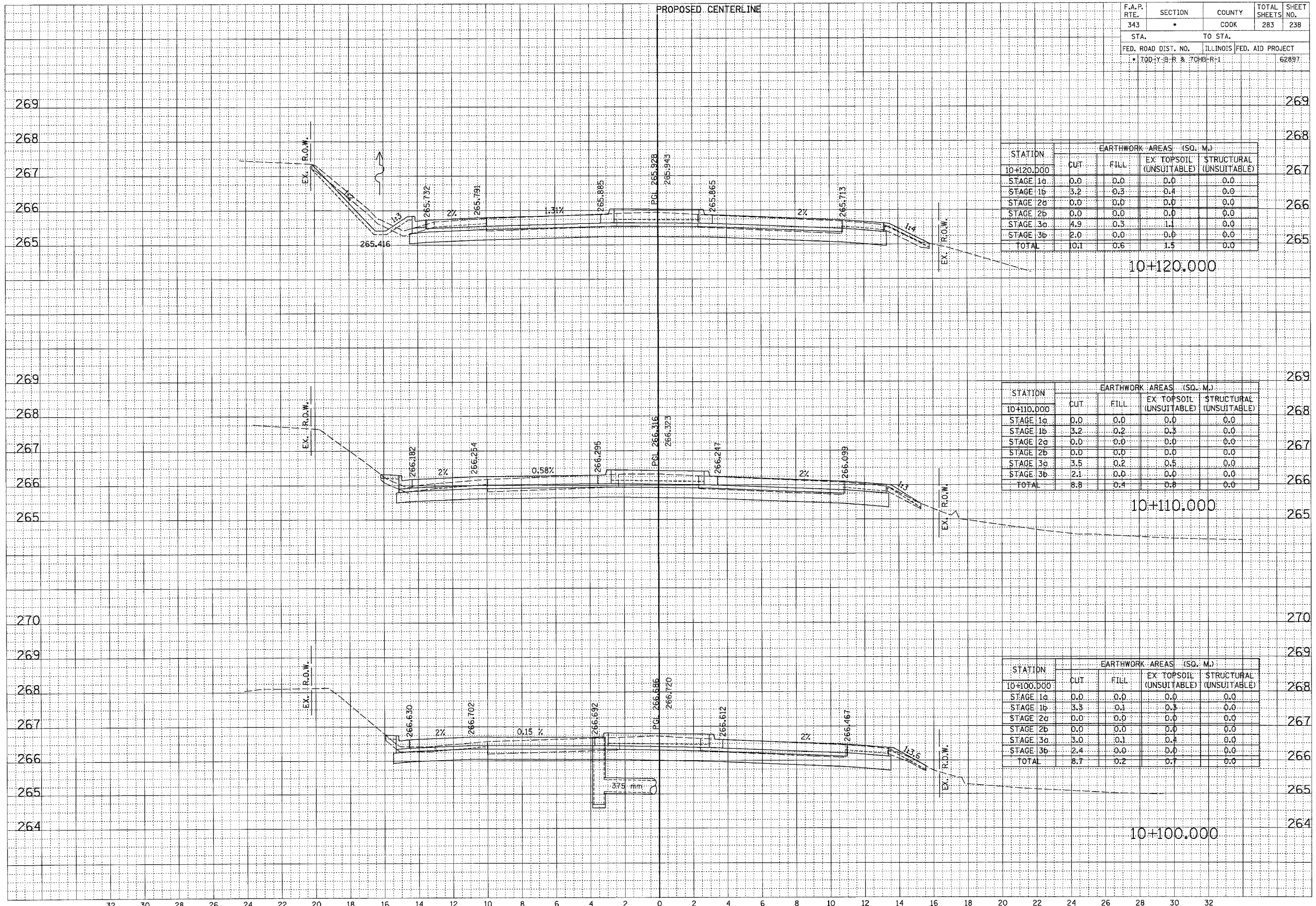
STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
10+090.000	0.0	0.0	0.0	0.0
STAGE 1a	6.4	0.0	1.4	0.0
STAGE 1b	0.0	0.0	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	2.3	0.1	0.4	0.0
STAGE 3a	2.5	0.0	0.0	0.0
STAGE 3b	1.2	0.1	1.8	0.0
TOTAL	11.2	0.1	1.8	0.0

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
10+080.000	0.0	0.0	0.0	0.0
STAGE 1a	5.0	1.3	1.8	0.0
STAGE 1b	0.0	0.0	0.0	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	1.4	1.2	0.7	0.0
STAGE 3a	2.6	0.0	0.0	0.0
STAGE 3b	9.0	2.5	2.5	0.0
TOTAL	9.0	2.5	2.5	0.0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343		COOK	283	238
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
100-Y-R & 70HD-R-1			62897	

FINAL	DATE
SURVEY	BY
NOTE BOOK	
NO.	

ORIGINAL	DATE
SURVEY	BY
NOTE BOOK	
NO.	



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
10+120.000				
STAGE 1a	0.0	0.0	0.0	0.0
STAGE 1b	3.2	0.3	0.4	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	0.0	0.0	0.0	0.0
STAGE 3a	4.9	0.3	1.1	0.0
STAGE 3b	2.0	0.0	0.0	0.0
TOTAL	10.1	0.6	1.5	0.0

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
10+110.000				
STAGE 1a	0.0	0.0	0.0	0.0
STAGE 1b	3.2	0.2	0.3	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	0.0	0.0	0.0	0.0
STAGE 3a	3.5	0.2	0.5	0.0
STAGE 3b	2.1	0.0	0.0	0.0
TOTAL	8.8	0.4	0.8	0.0

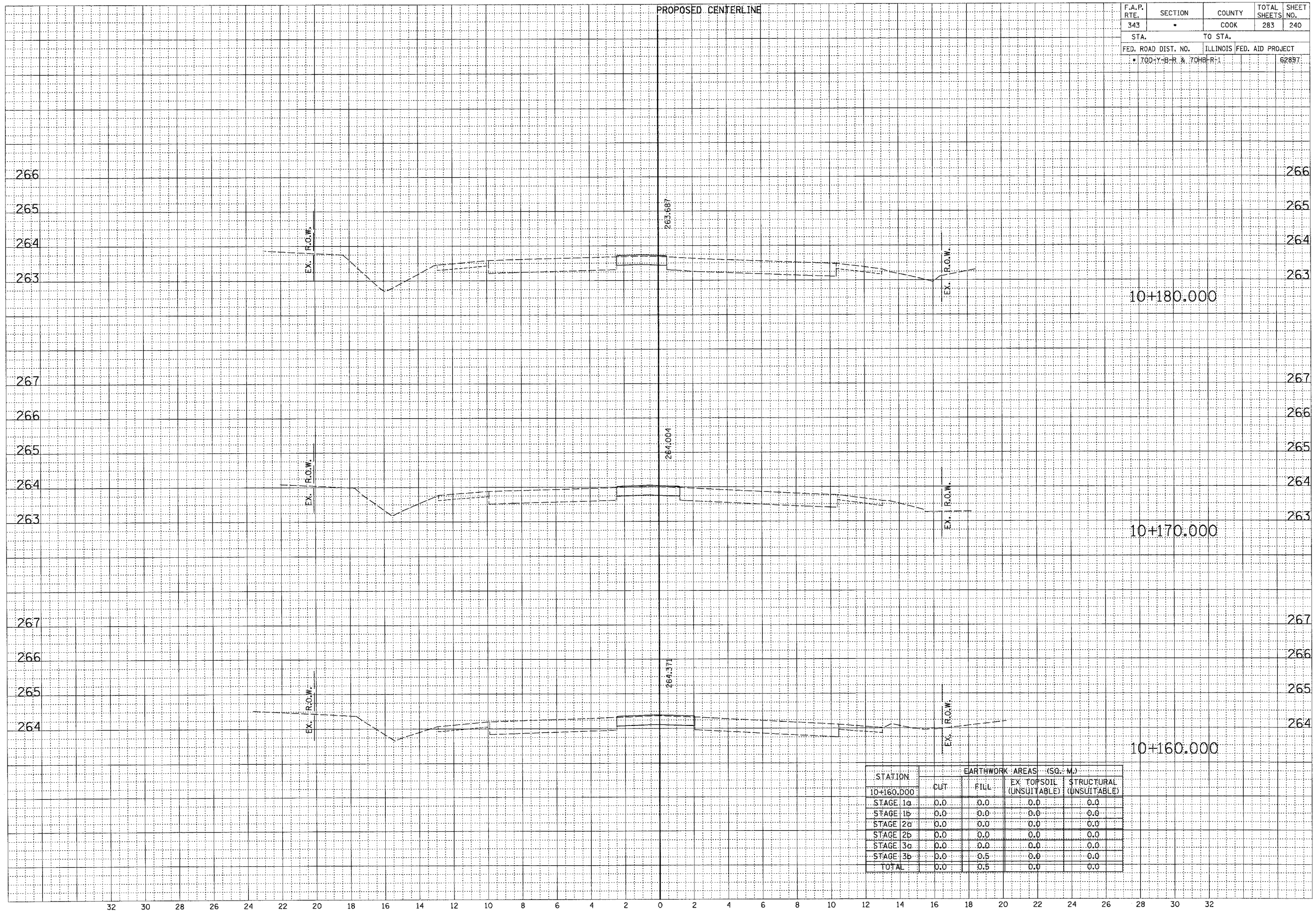
STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)	STRUCTURAL (UNSUITABLE)
10+100.000				
STAGE 1a	0.0	0.0	0.0	0.0
STAGE 1b	3.5	0.1	0.3	0.0
STAGE 2a	0.0	0.0	0.0	0.0
STAGE 2b	0.0	0.0	0.0	0.0
STAGE 3a	3.0	0.1	0.4	0.0
STAGE 3b	2.4	0.0	0.0	0.0
TOTAL	8.7	0.2	0.7	0.0

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	-	COOK	283	240
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• 700+Y-B-R & 704B-R-1				62897

FINAL SURVEY	DATE
REVISIONS	BY
NOTED	
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TEMPLATE	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
REVISIONS	BY
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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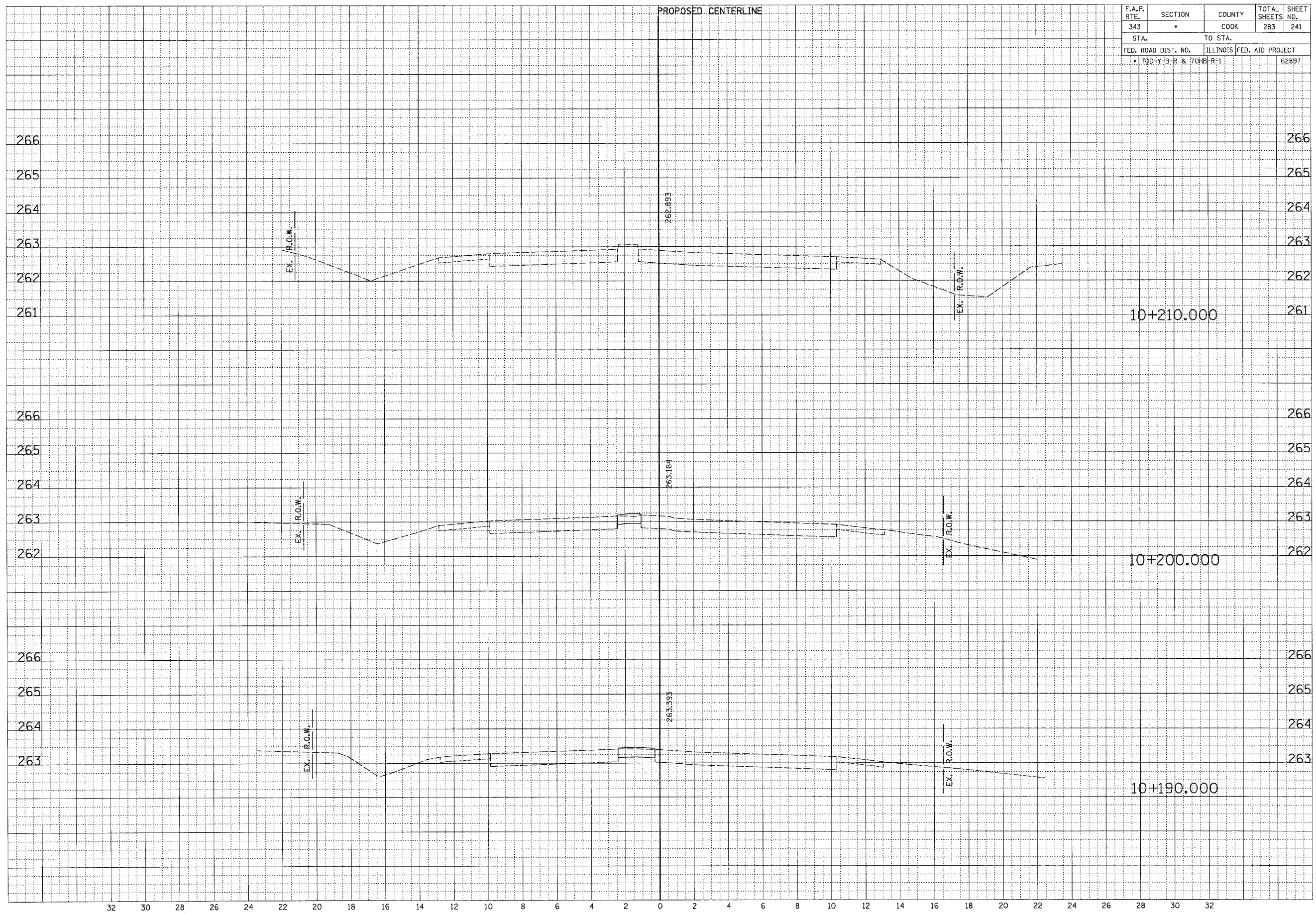


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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	•	COOK	283	241
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• 700-Y-B-R & 700-B-R-1			62897	

FINAL	REVISIONS	DATE
SURVEY	BY	
NOTE BOOK	NO.	
TEMPLATE		
AREAS CHECKED		

ORIGINAL	DATE
SURVEY	BY
NOTE BOOK	NO.
TEMPLATE	
AREAS CHECKED	

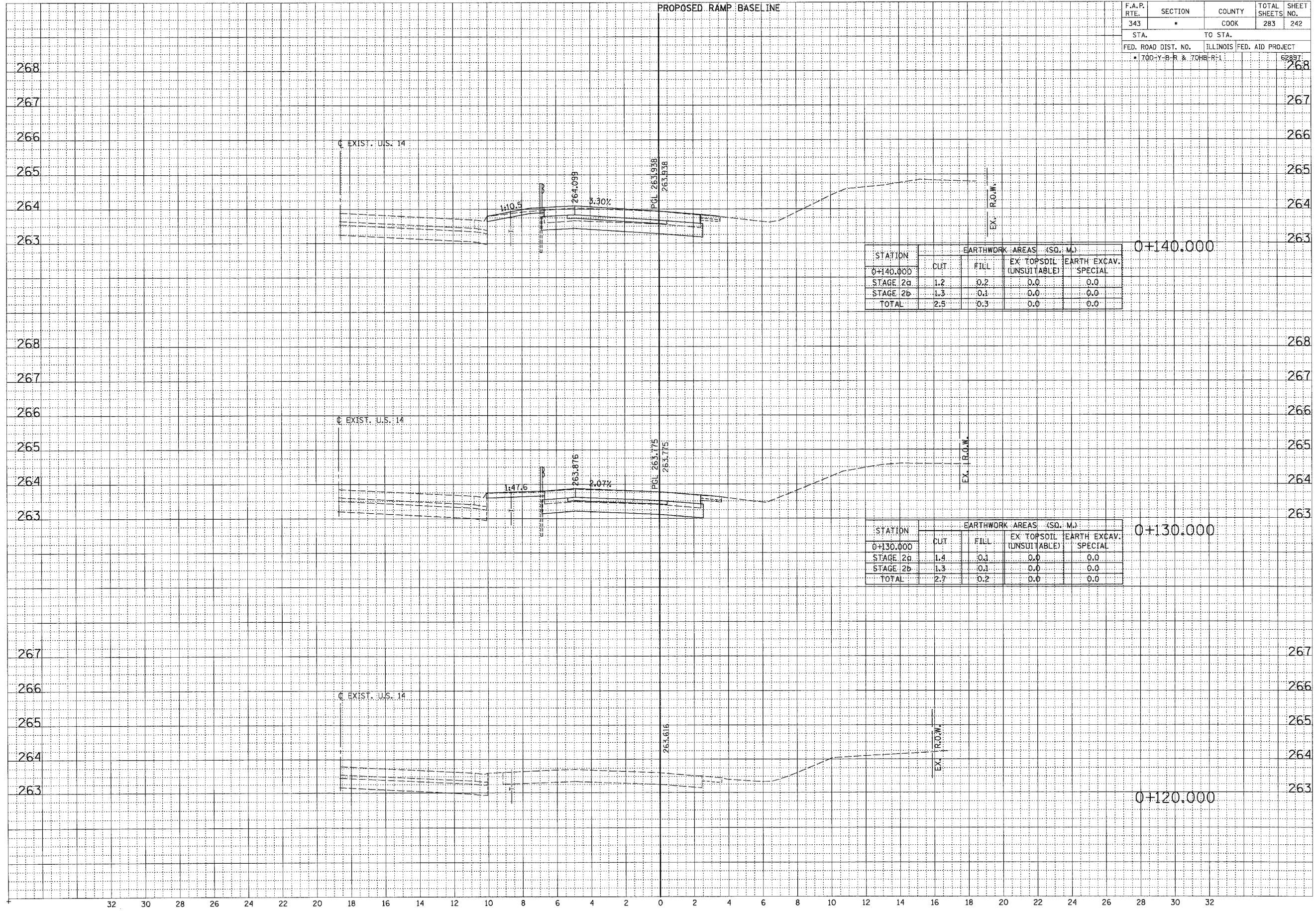


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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	242
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
* 700-Y-B-R & 700H-R-1				

FINAL SURVEY	DATE
BY	
REVISIONS	
PLotted	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

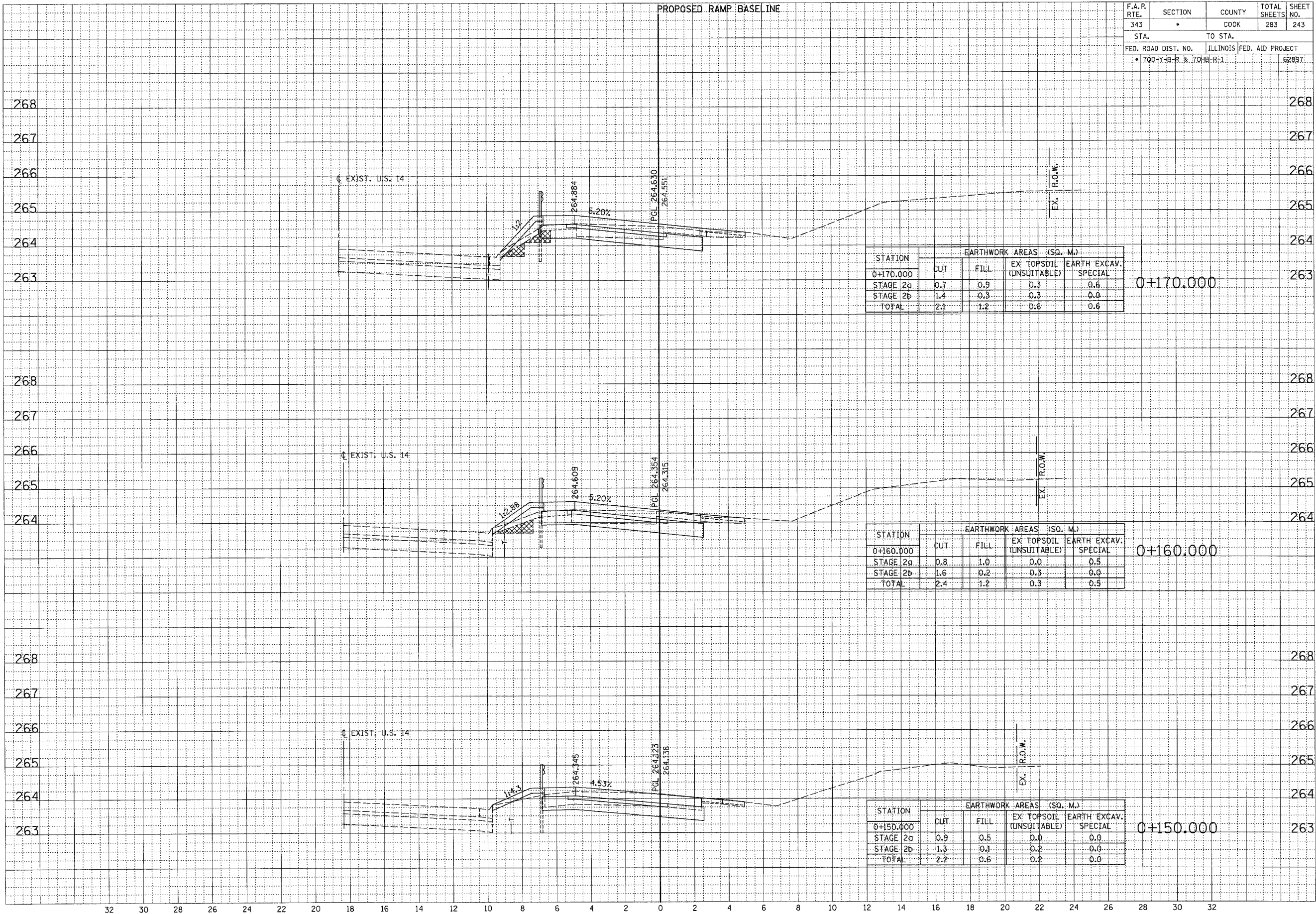
ORIGINAL SURVEY	DATE
BY	
REVISIONS	
PLotted	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	•	COOK	283	243
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
• 70D-Y-B-R & 70HB-R-1			62897	

FINAL SURVEY	SURVEYED	DATE
PLOTTED	BY	
NOTE BOOK		
AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	DATE
PLOTTED	BY	
NOTE BOOK		
AREAS CHECKED		



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+170.000				
STAGE 2a	0.7	0.9	0.3	0.6
STAGE 2b	1.4	0.3	0.3	0.0
TOTAL	2.1	1.2	0.6	0.6

0+170.000

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+160.000				
STAGE 2a	0.8	1.0	0.0	0.5
STAGE 2b	1.6	0.2	0.3	0.0
TOTAL	2.4	1.2	0.3	0.5

0+160.000

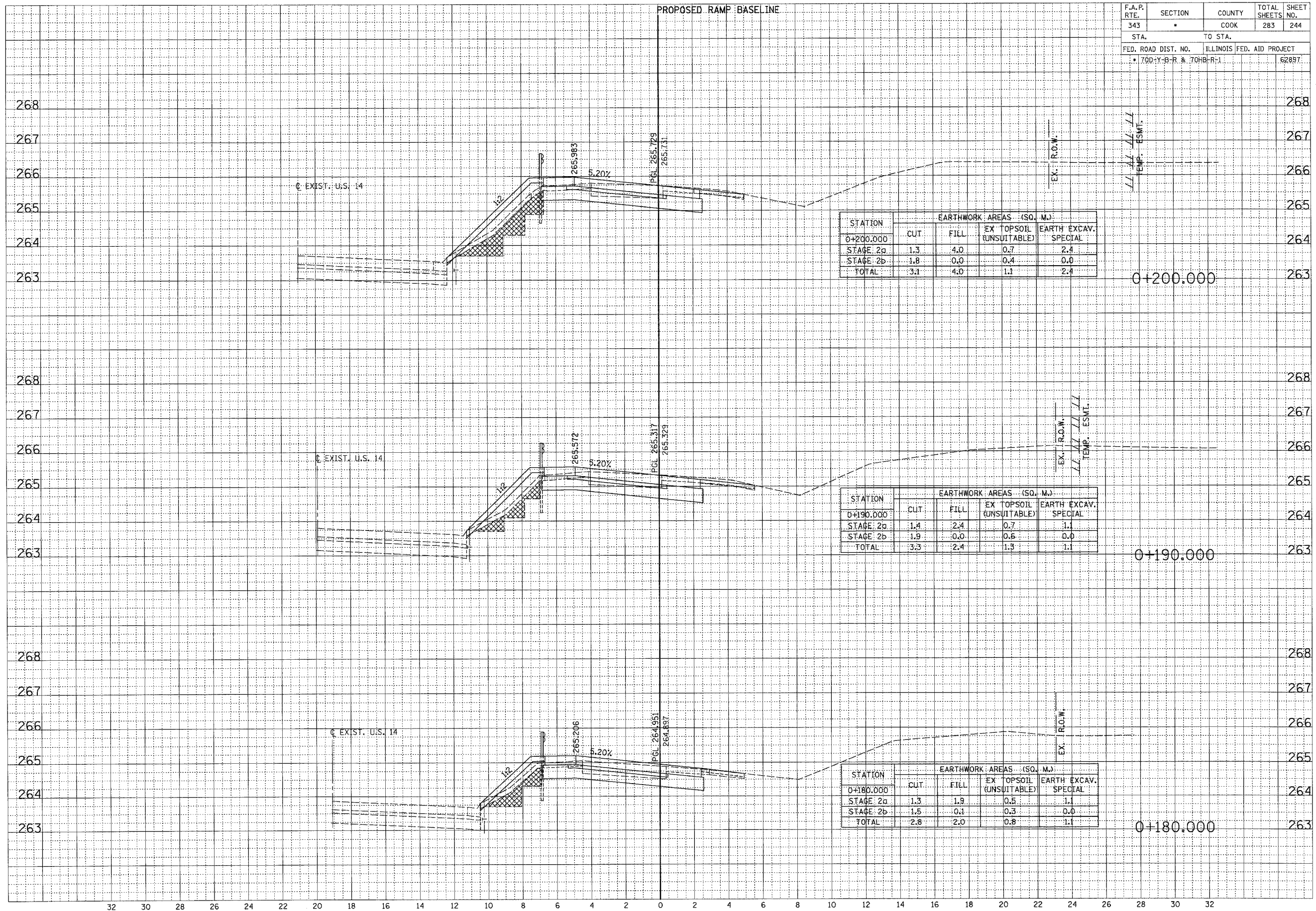
STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+150.000				
STAGE 2a	0.9	0.5	0.0	0.0
STAGE 2b	1.3	0.1	0.2	0.0
TOTAL	2.2	0.6	0.2	0.0

0+150.000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	244
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 700-Y-B-R & 704B-R-1		62897		

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

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

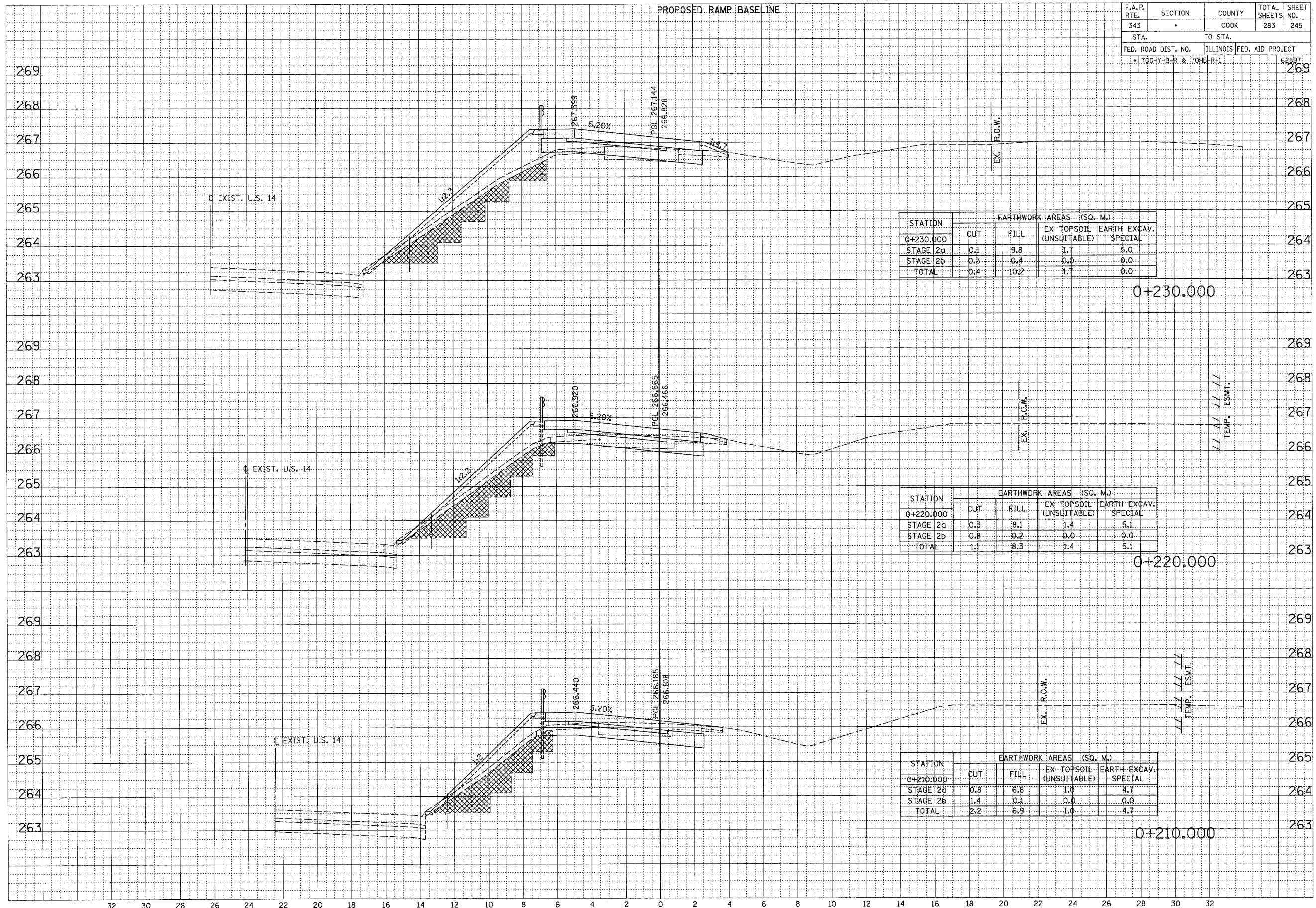


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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	245
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* 700-Y-D-R & 700-B-R-1			62897	

FINAL SURVEY	DATE
NO. _____	_____
BY _____	
REVISIONS	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

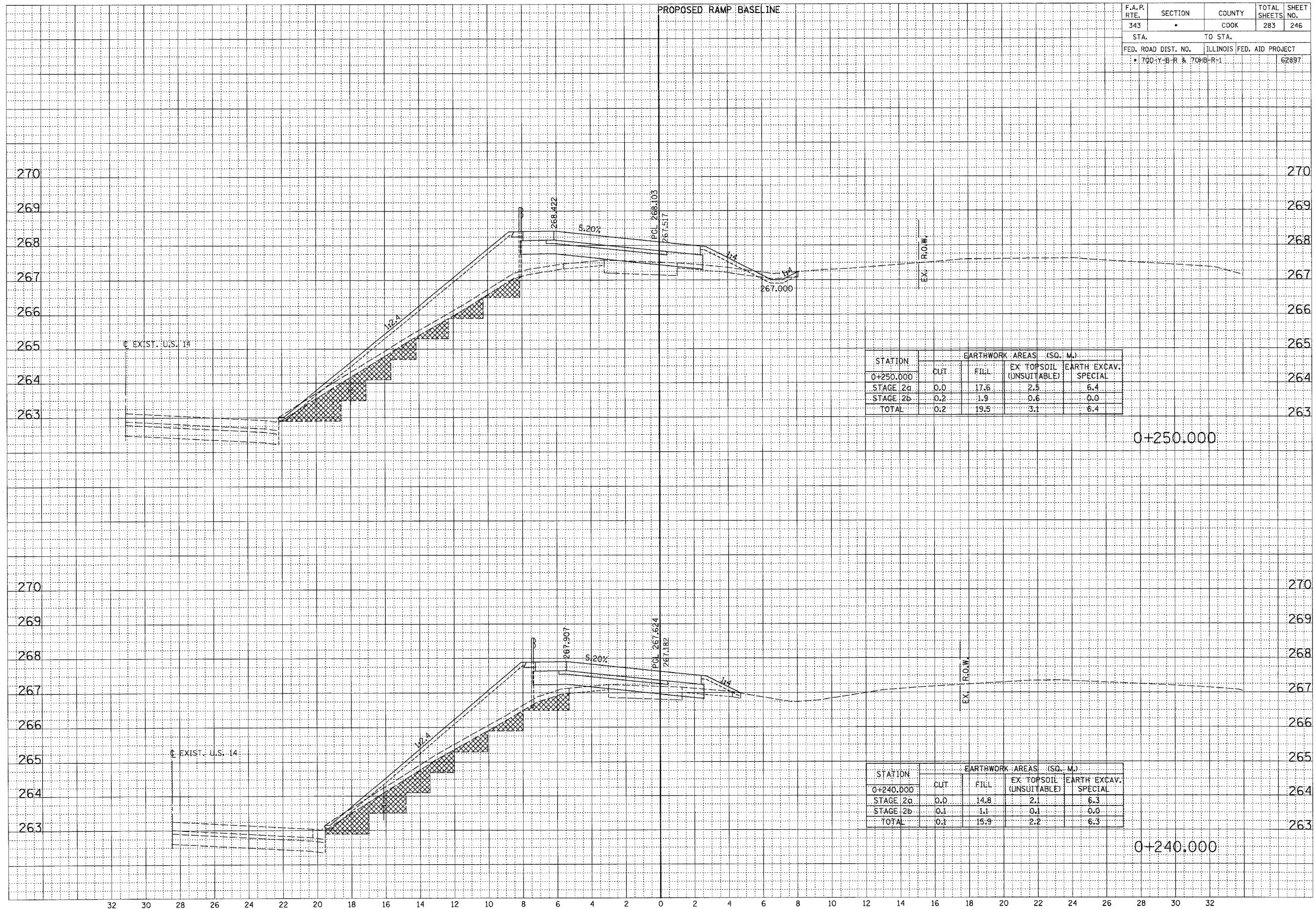
ORIGINAL SURVEY	DATE
NO. _____	_____
BY _____	
REVISIONS	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	246
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
* 70D-Y-B-R & 70H-B-R-1			62897	

FINAL SURVEY	DATE
NO. _____	BY _____
NOTE BOOK	
NO. _____	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
NO. _____	BY _____
NOTE BOOK	
NO. _____	
AREAS CHECKED	



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+250.000	0.0	17.6	2.5	6.4
STAGE 2a	0.0	1.9	0.6	0.0
STAGE 2b	0.2	19.5	3.1	6.4
TOTAL	0.2	19.5	3.1	6.4

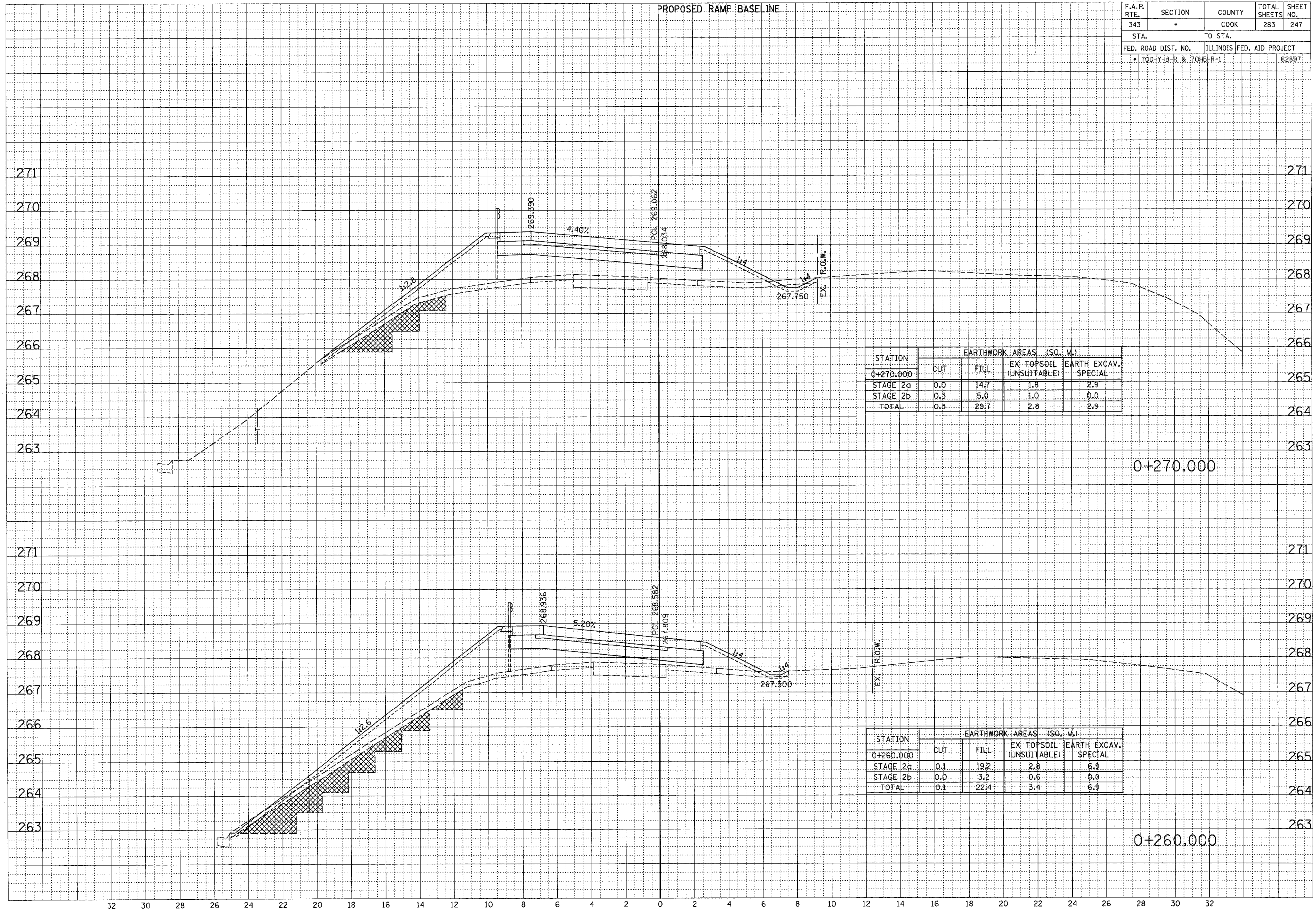
STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+240.000	0.0	14.8	2.1	6.3
STAGE 2a	0.0	1.1	0.1	0.0
STAGE 2b	0.1	15.9	2.2	6.3
TOTAL	0.1	15.9	2.2	6.3

RAMP A

F.A.P. RTE. 343	SECTION •	COUNTY COOK	TOTAL SHEETS 283	SHEET NO. 247
STA. •		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• 70D-Y-B-R & 70H-B-R-1				62897

FINAL SURVEY	DATE
REVISED SURVEY	BY
NOTED BOOK	
AREAS CHECKED	
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ORIGINAL SURVEY	DATE
REVISED SURVEY	BY
NOTED BOOK	
AREAS CHECKED	
NO.	

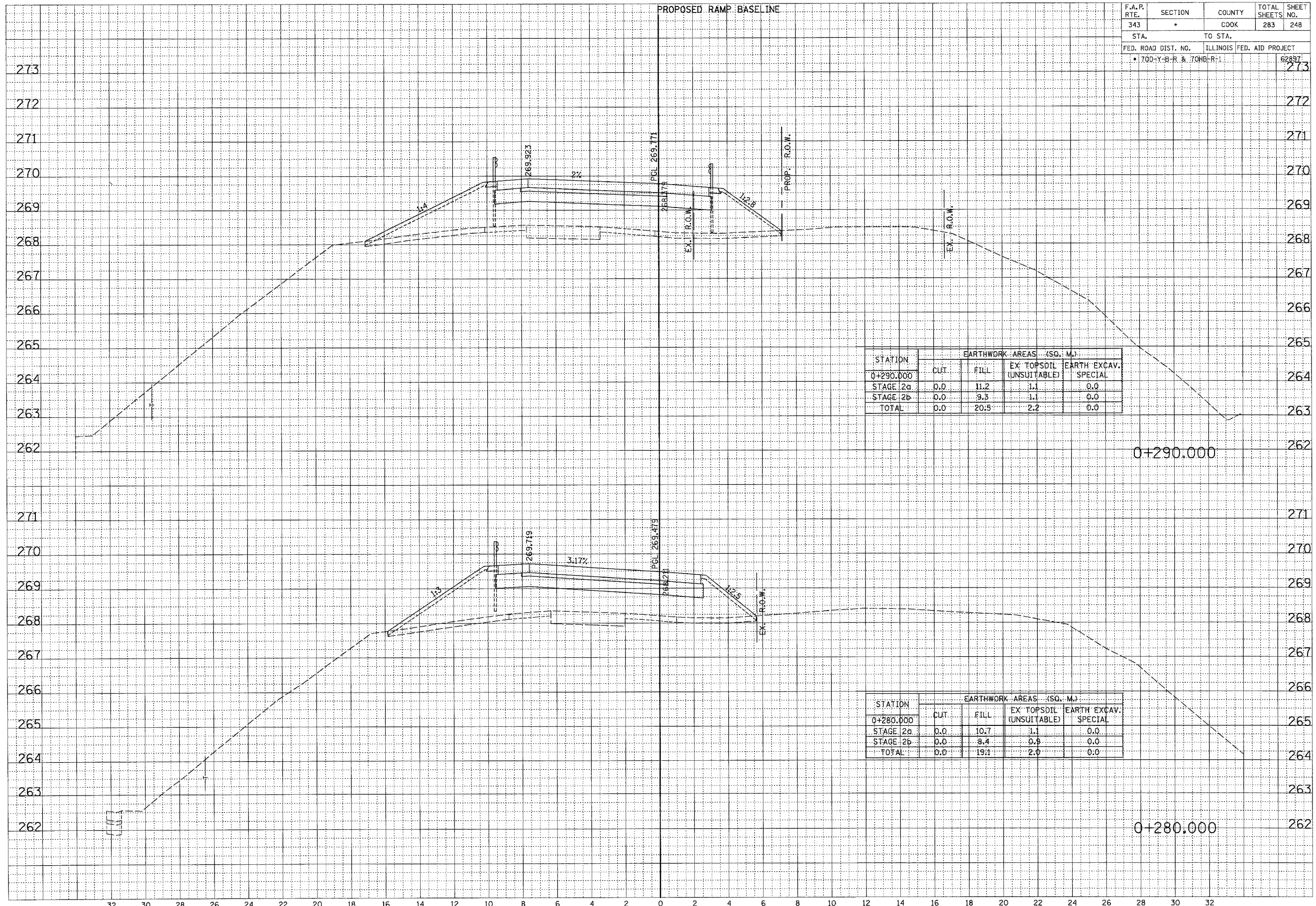


RAMP A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	248
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* 70D-Y-B-R. & 70HB-R-1		62887		

FINAL SURVEY	DATE
REVISIONS	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
REVISIONS	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+290.000	0.0	11.2	1.1	0.0
STAGE 2a	0.0	9.3	1.1	0.0
STAGE 2b	0.0	2.0	0.0	0.0
TOTAL	0.0	20.5	2.2	0.0

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+280.000	0.0	10.7	1.1	0.0
STAGE 2a	0.0	8.4	0.9	0.0
STAGE 2b	0.0	2.0	0.0	0.0
TOTAL	0.0	19.1	2.0	0.0

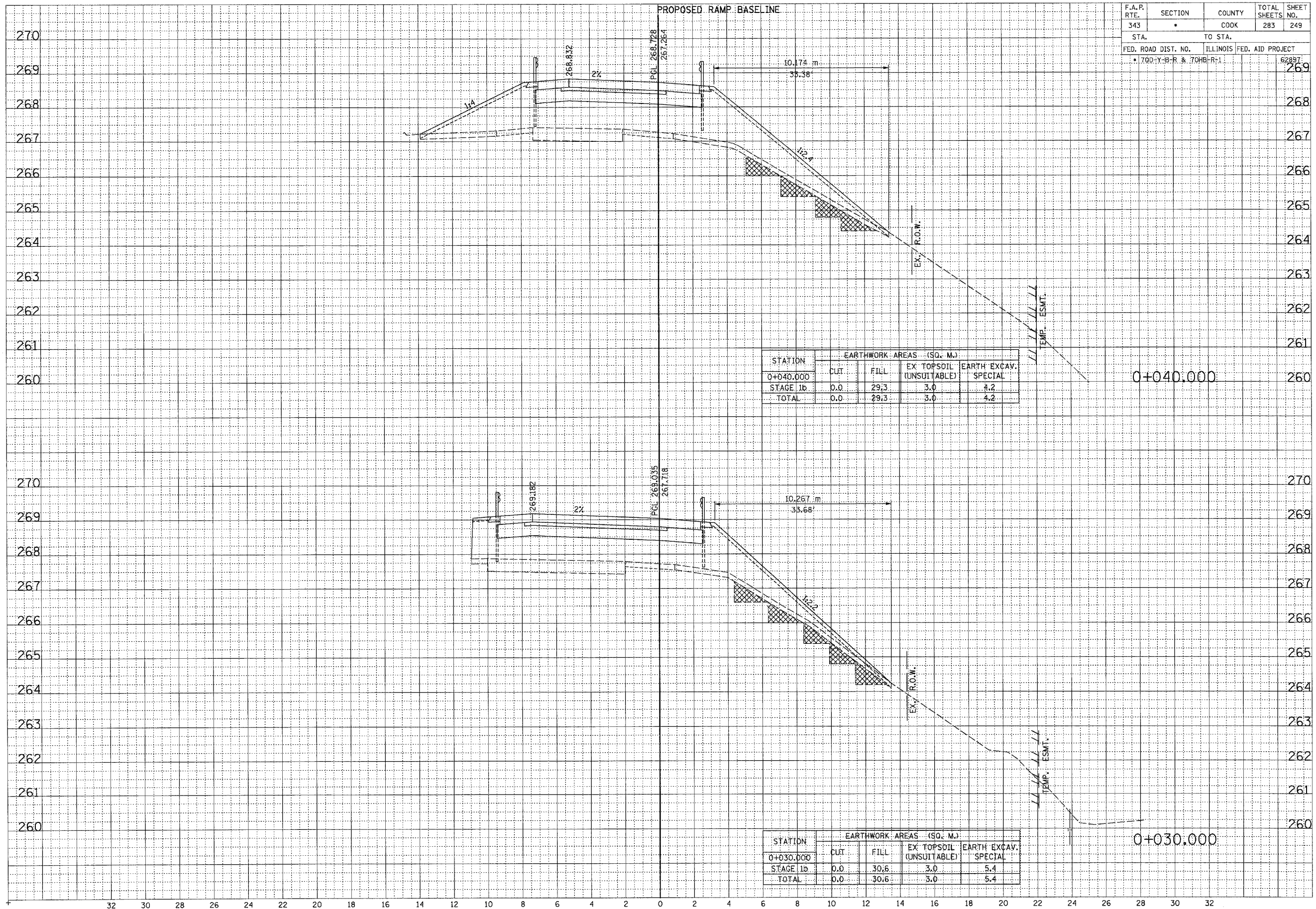
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	249
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
* 700-Y-B-R & 70HB-R-1			62897	

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPERATURE	
	AREAS CHECKED	

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

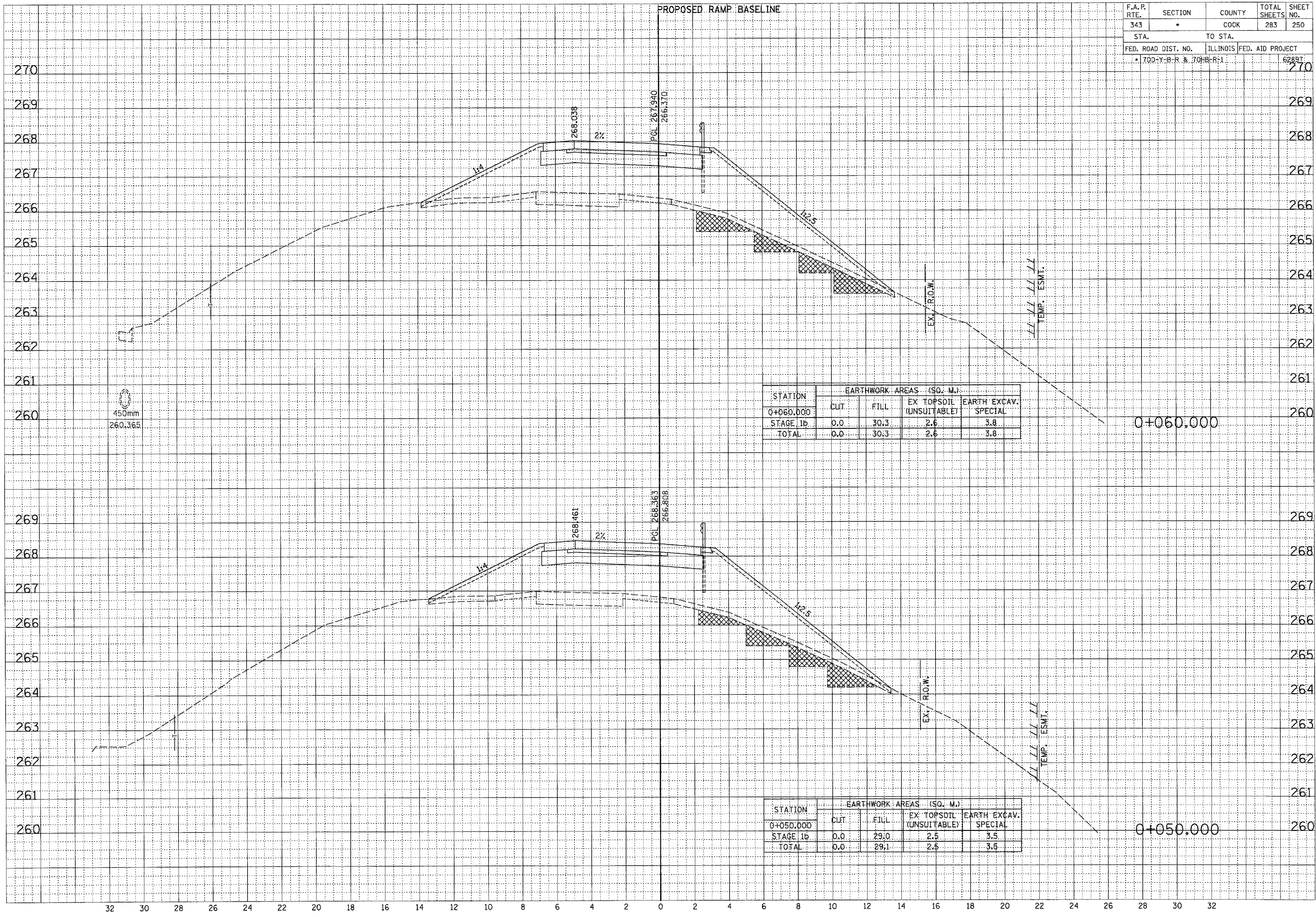


STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+040.000	0.0	29.3	3.0	4.2
STAGE 1b	0.0	29.3	3.0	4.2
TOTAL	0.0	29.3	3.0	4.2

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+030.000	0.0	30.6	3.0	5.4
STAGE 1b	0.0	30.6	3.0	5.4
TOTAL	0.0	30.6	3.0	5.4

RAMP B

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	•	COOK	283	250
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		62887
• 700-Y-B-R & 700-B-R-1				



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+060.000	0.0	30.3	2.6	3.8
STAGE 1b	0.0	30.3	2.6	3.8
TOTAL	0.0	30.3	2.6	3.8

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+050.000	0.0	29.0	2.5	3.5
STAGE 1b	0.0	29.0	2.5	3.5
TOTAL	0.0	29.0	2.5	3.5

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	AREAS	
	CHECKED	

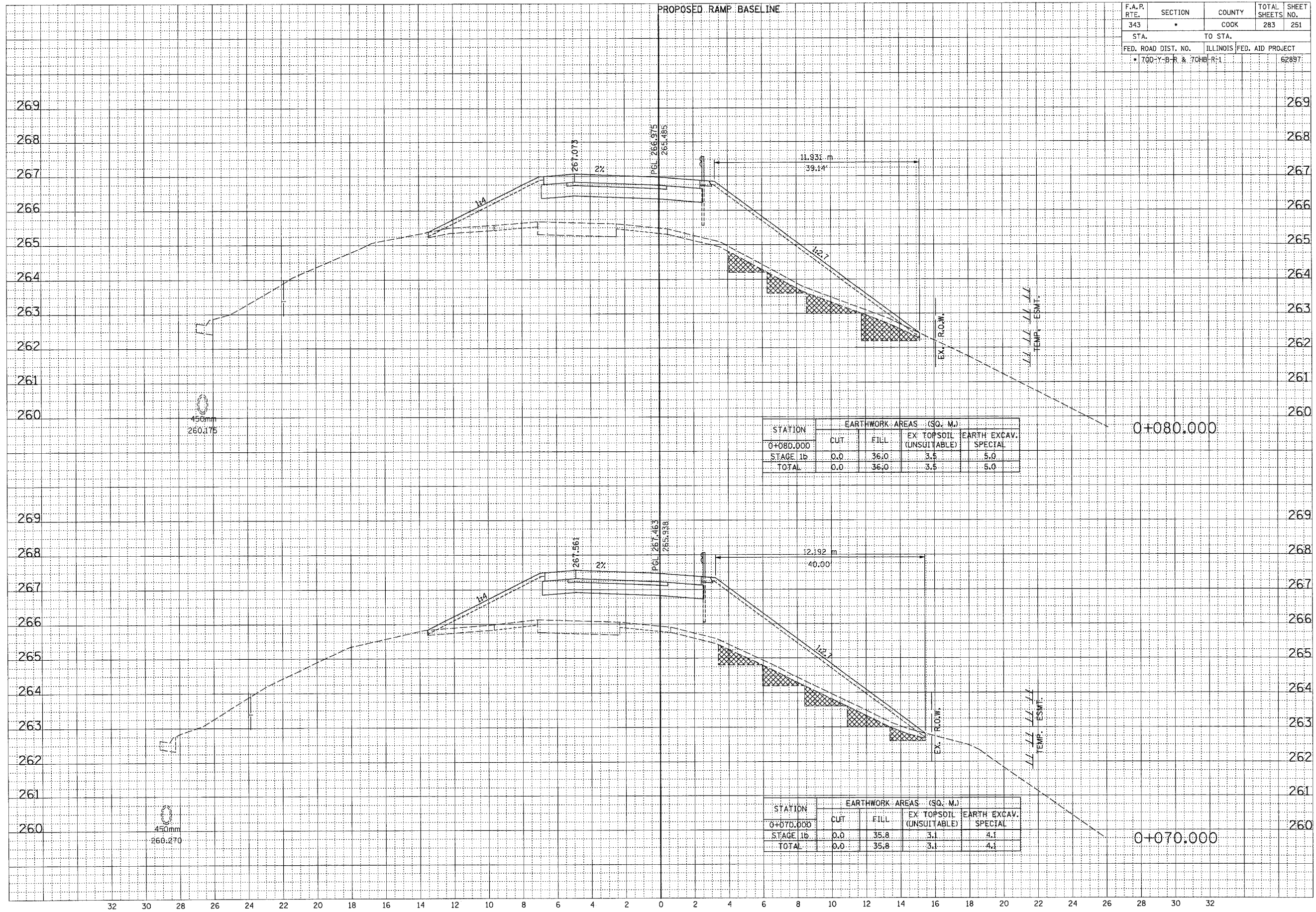
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	AREAS	
	CHECKED	

RAMP B

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	251
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* 700-Y-B-R & 700B-R-1			62897	

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

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

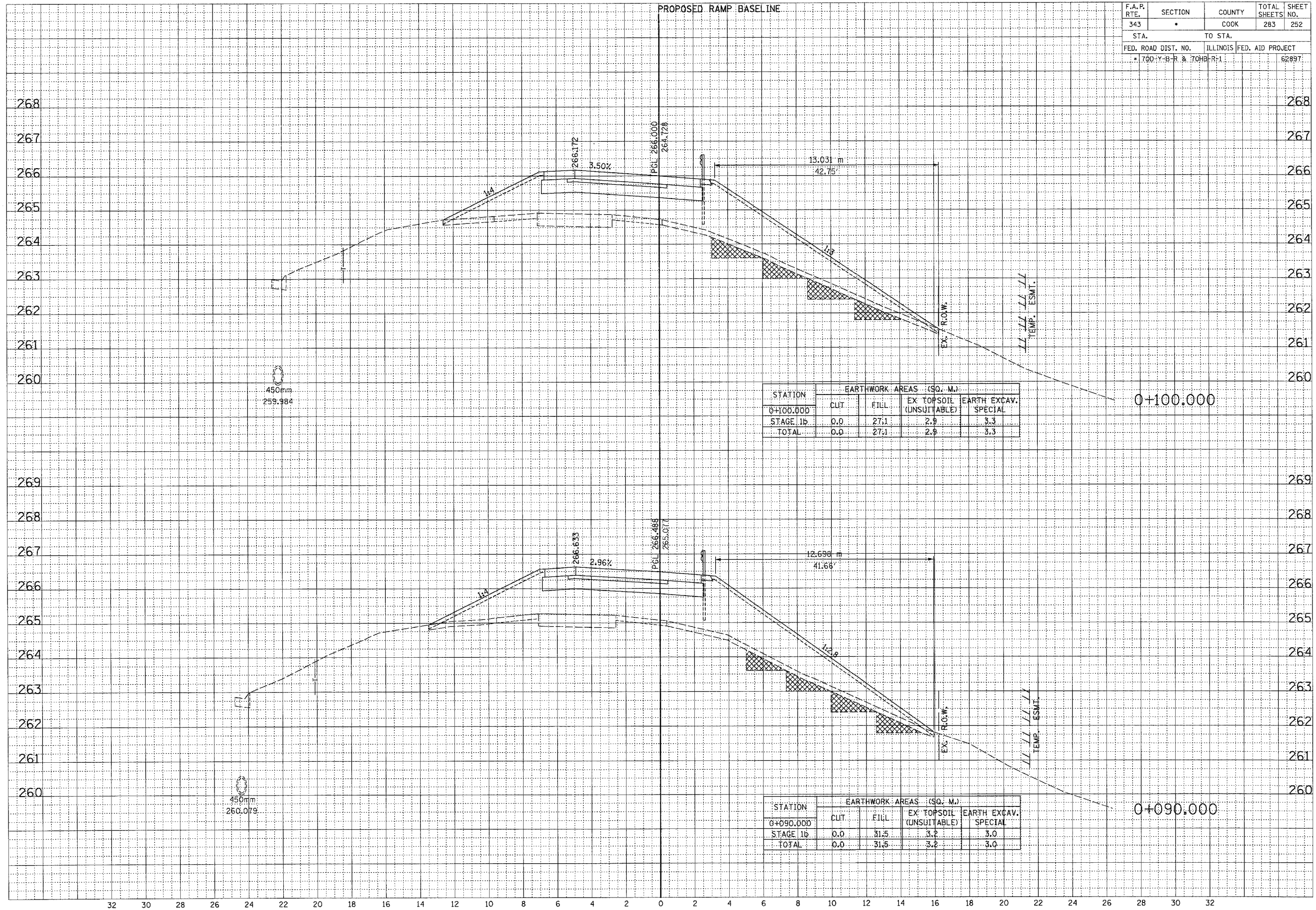


STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+080.000	0.0	36.0	3.5	5.0
STAGE 1b	0.0	36.0	3.5	5.0
TOTAL	0.0	36.0	3.5	5.0

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+070.000	0.0	35.8	3.1	4.1
STAGE 1b	0.0	35.8	3.1	4.1
TOTAL	0.0	35.8	3.1	4.1

RAMP B

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	252
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 700-Y-B-R & 704B-R-1		62897		



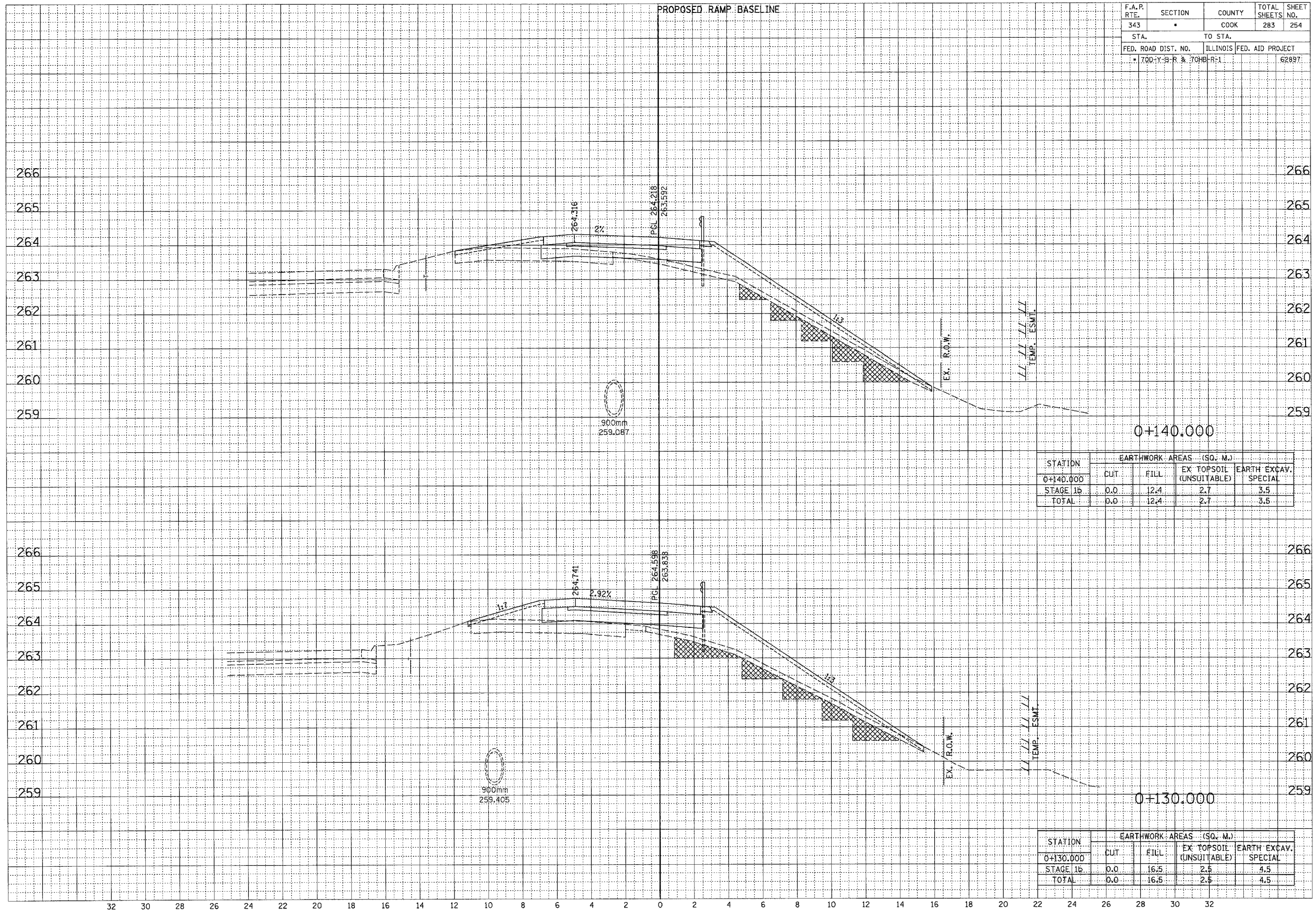
FINAL SURVEY	DATE
NOTE BOOK	BY
AREAS CHECKED	

ORIGINAL SURVEY	DATE
NOTE BOOK	BY
AREAS CHECKED	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	254
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* 700-Y-B-R & 704B-R-1			62897	

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



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+140.000				
STAGE 1b	0.0	12.4	2.7	3.5
TOTAL	0.0	12.4	2.7	3.5

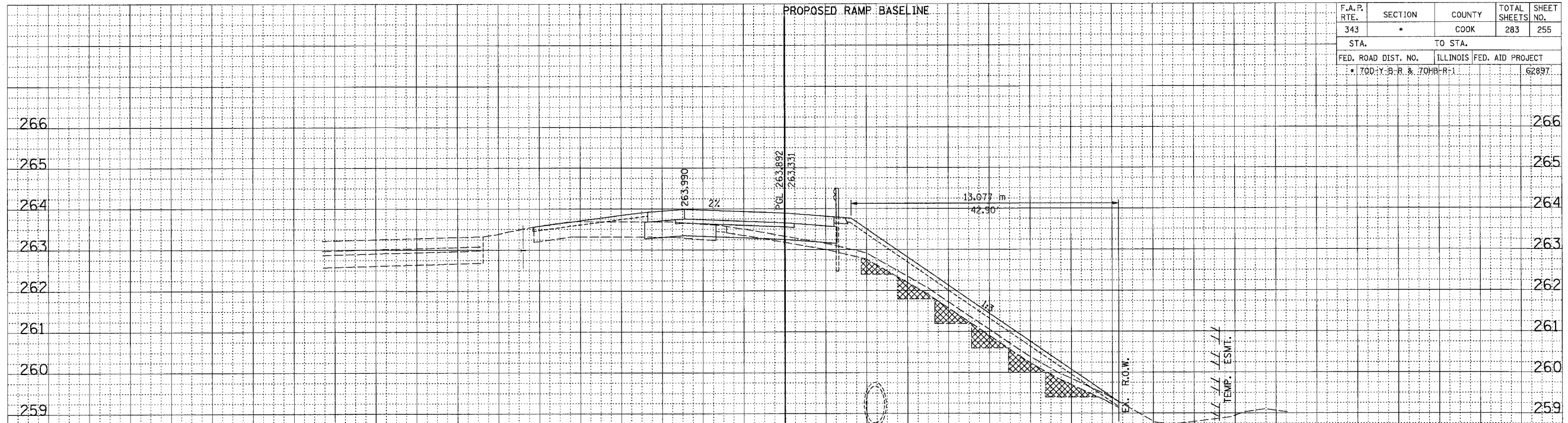
STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+130.000				
STAGE 1b	0.0	16.5	2.5	4.5
TOTAL	0.0	16.5	2.5	4.5

RAMP B

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	255
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* 70D-Y-B-R & 70HB-R-1			62897	

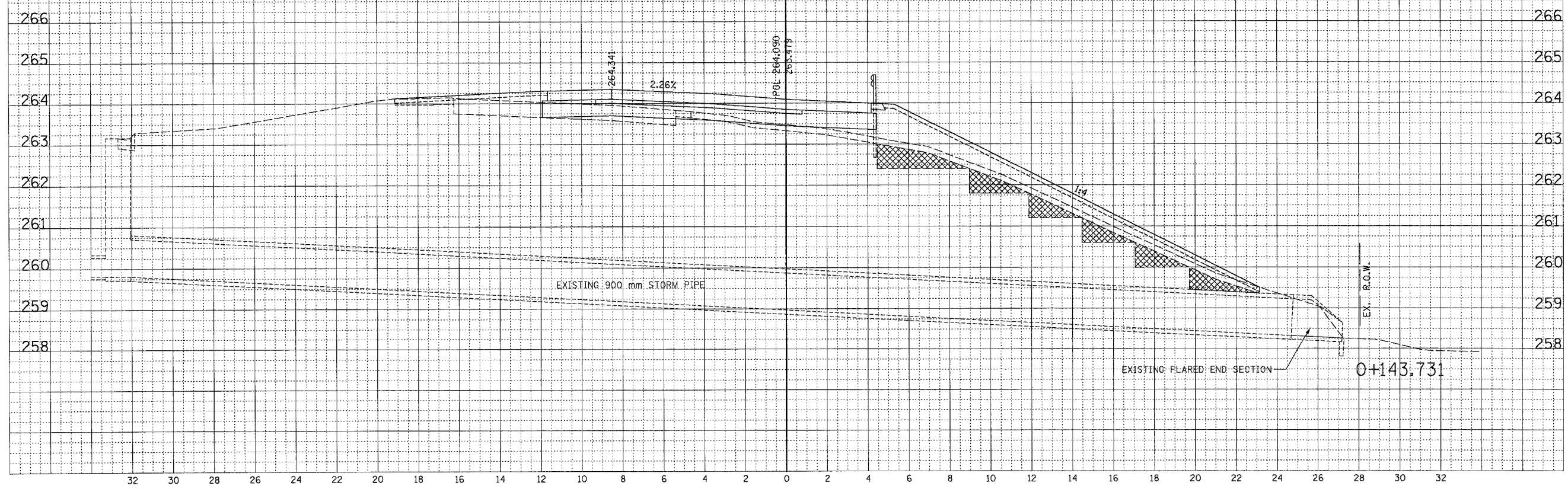
FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



0+150.000

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+150.000				
STAGE 1b	0.2	13.5	3.2	4.3
TOTAL	0.2	13.5	3.2	4.3

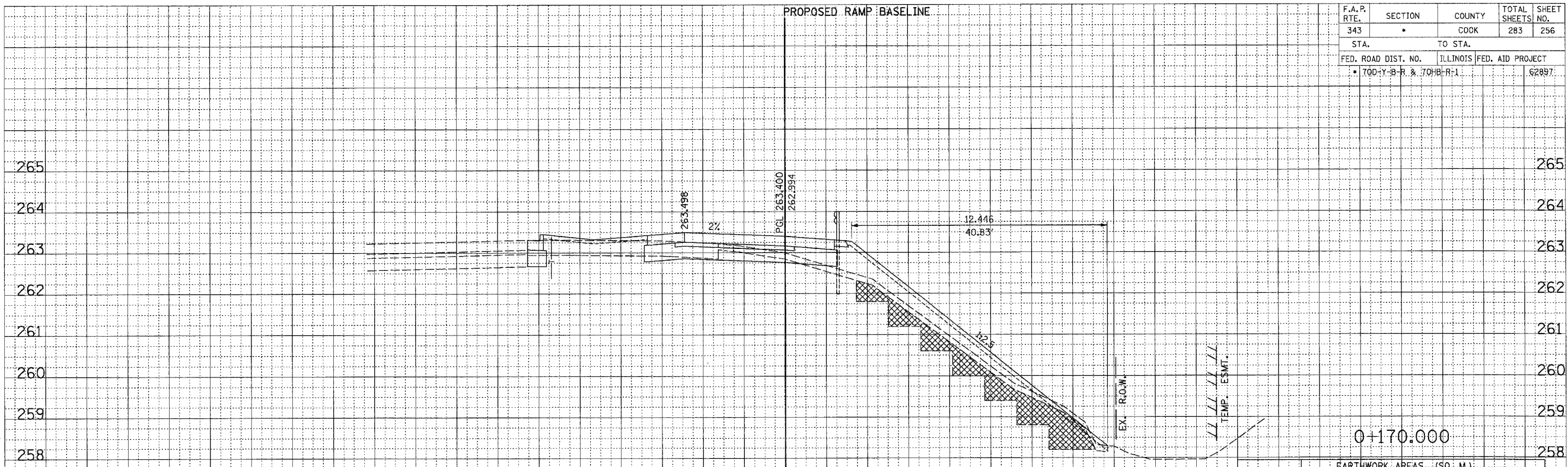
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SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
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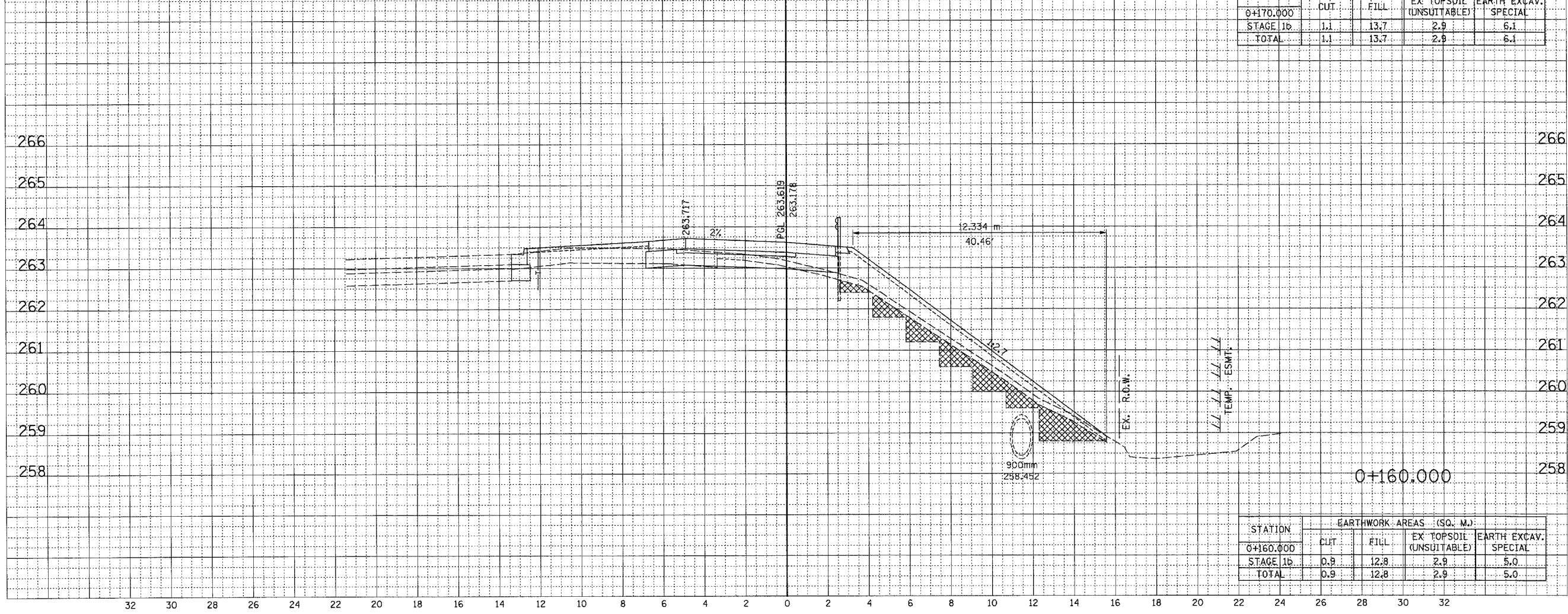
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	•	COOK	283	256
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• 700-Y-B-R & 700-B-R-1				62897

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
CHECKED		



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNUSABLE)	EARTH EXCAV. SPECIAL
0+170.000				
STAGE 1b	1.1	13.7	2.9	6.1
TOTAL	1.1	13.7	2.9	6.1

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
CHECKED		



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNUSABLE)	EARTH EXCAV. SPECIAL
0+160.000				
STAGE 1b	0.9	12.8	2.9	5.0
TOTAL	0.9	12.8	2.9	5.0

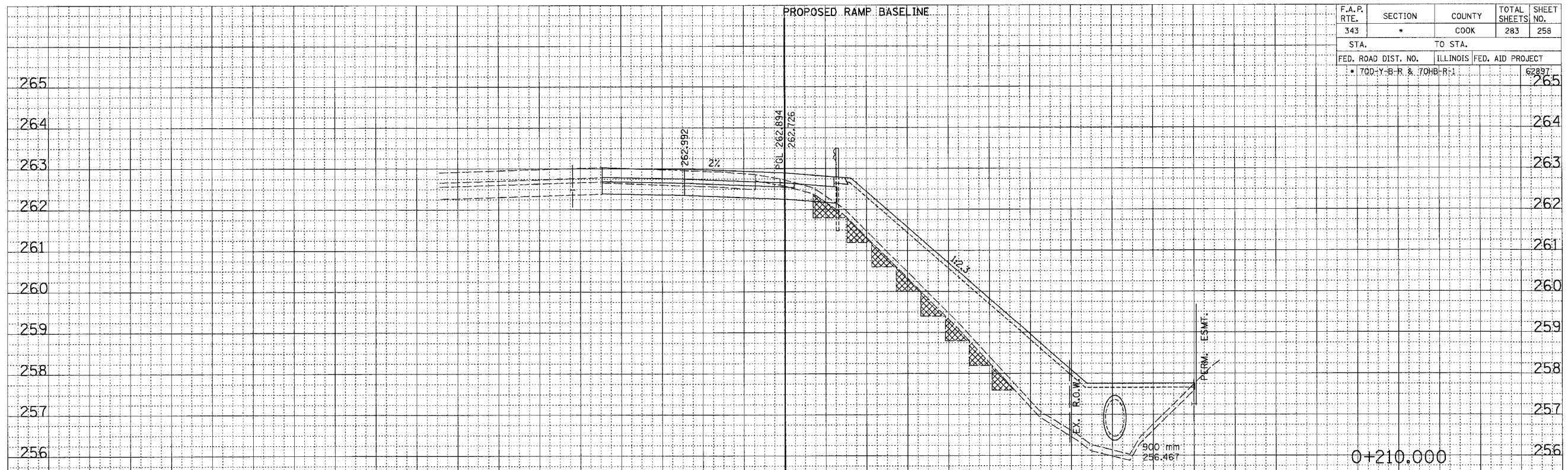
32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32

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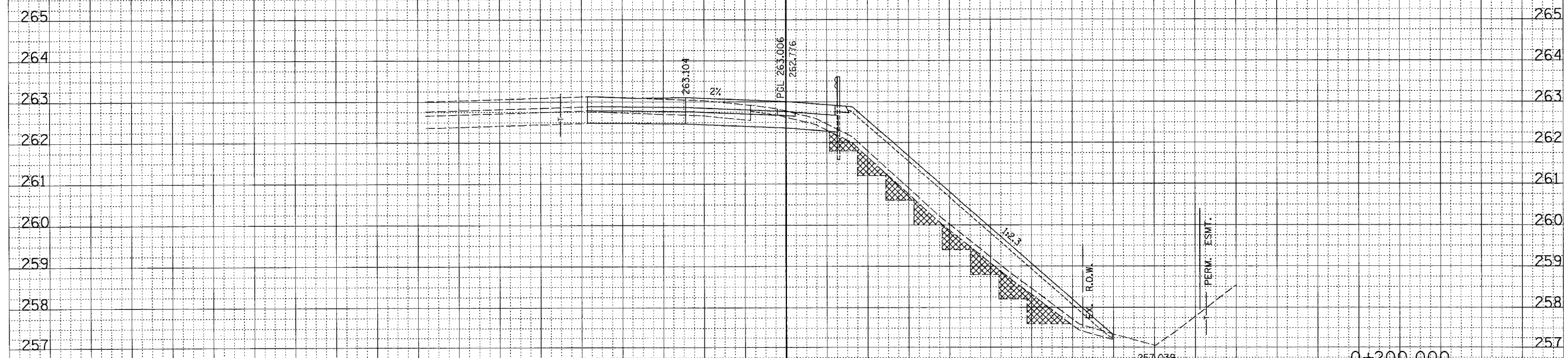
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	258
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 70D-Y-B-R & 70H-B-R-1		62897		

DATE	BY
FINAL SURVEY NOTE BOOK NO.	REVISED SURVEY NOTE BOOK NO.
	AREAS CHECKED

DATE	BY
ORIGINAL SURVEY NOTE BOOK NO.	REVISED SURVEY NOTE BOOK NO.
	AREAS CHECKED



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+210.000				
STAGE 1b	2.7	24.9	3.0	3.0
TOTAL	2.7	24.9	3.0	3.0

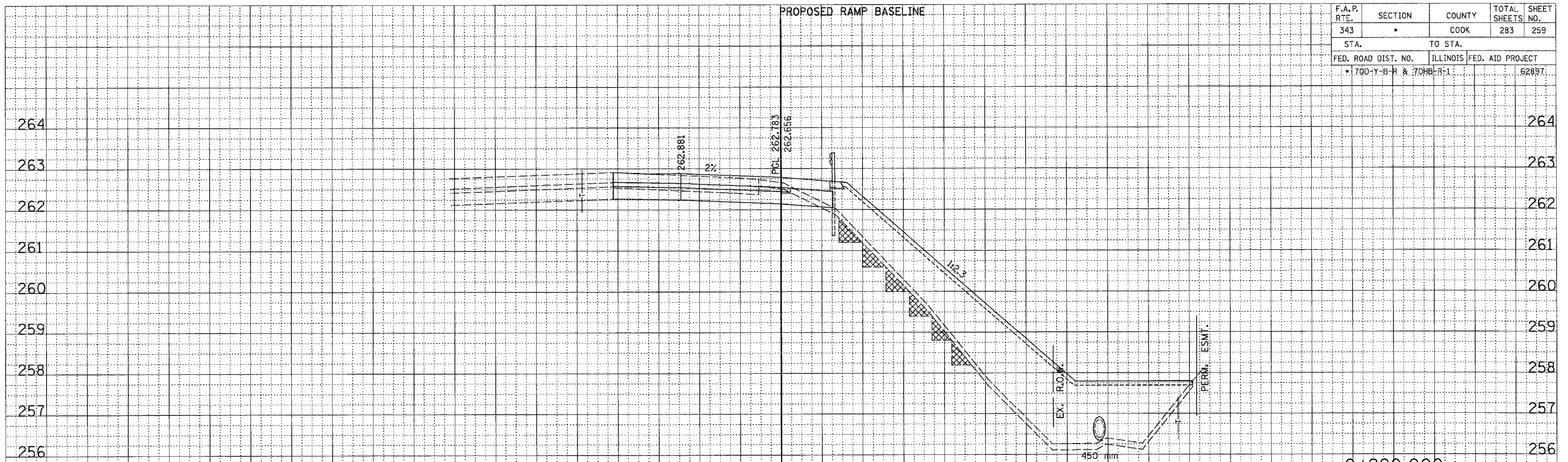


STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+200.000				
STAGE 1b	2.7	13.2	2.5	4.3
TOTAL	2.7	13.2	2.5	4.3

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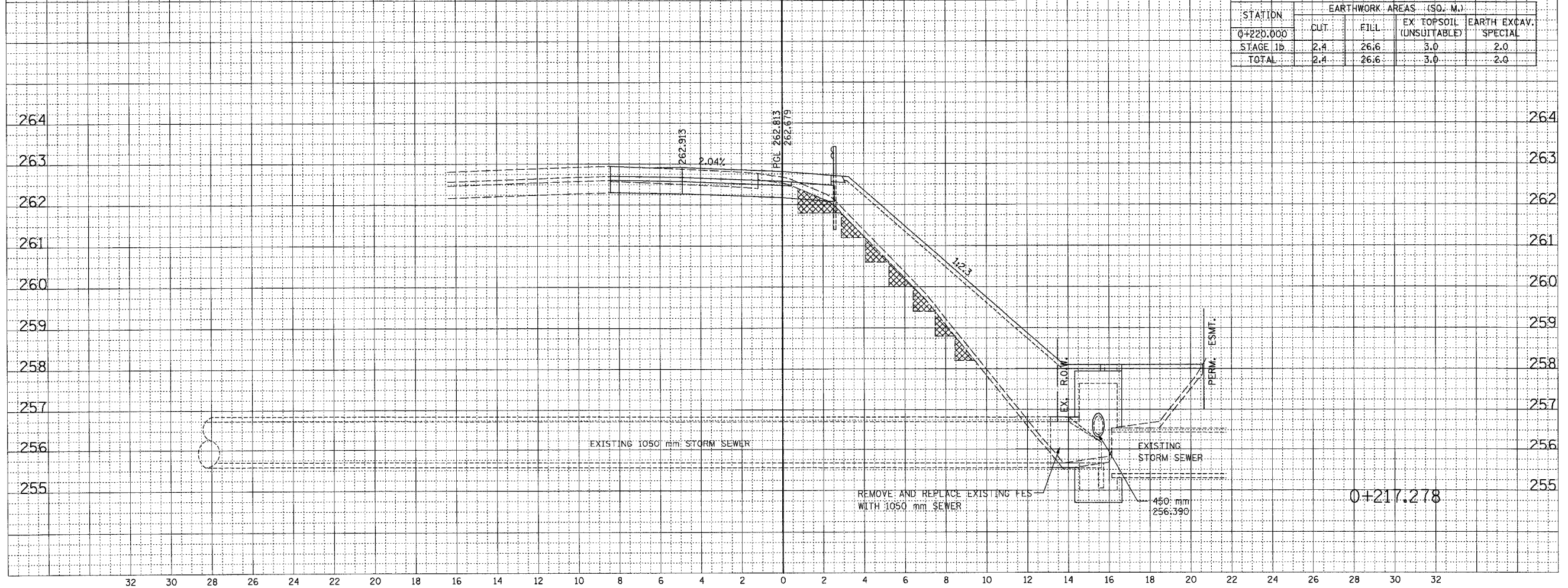
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343		COOK	283	259
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
700-Y-B-R & 700-B-R-1			62097	

DATE	BY
FINAL SURVEY NOTE BOOK NO.	SUBMITTED SURVEY TEMPLATE AREAS CHECKED



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+220.000				
STAGE 1B	2.4	26.6	3.0	2.0
TOTAL	2.4	26.6	3.0	2.0

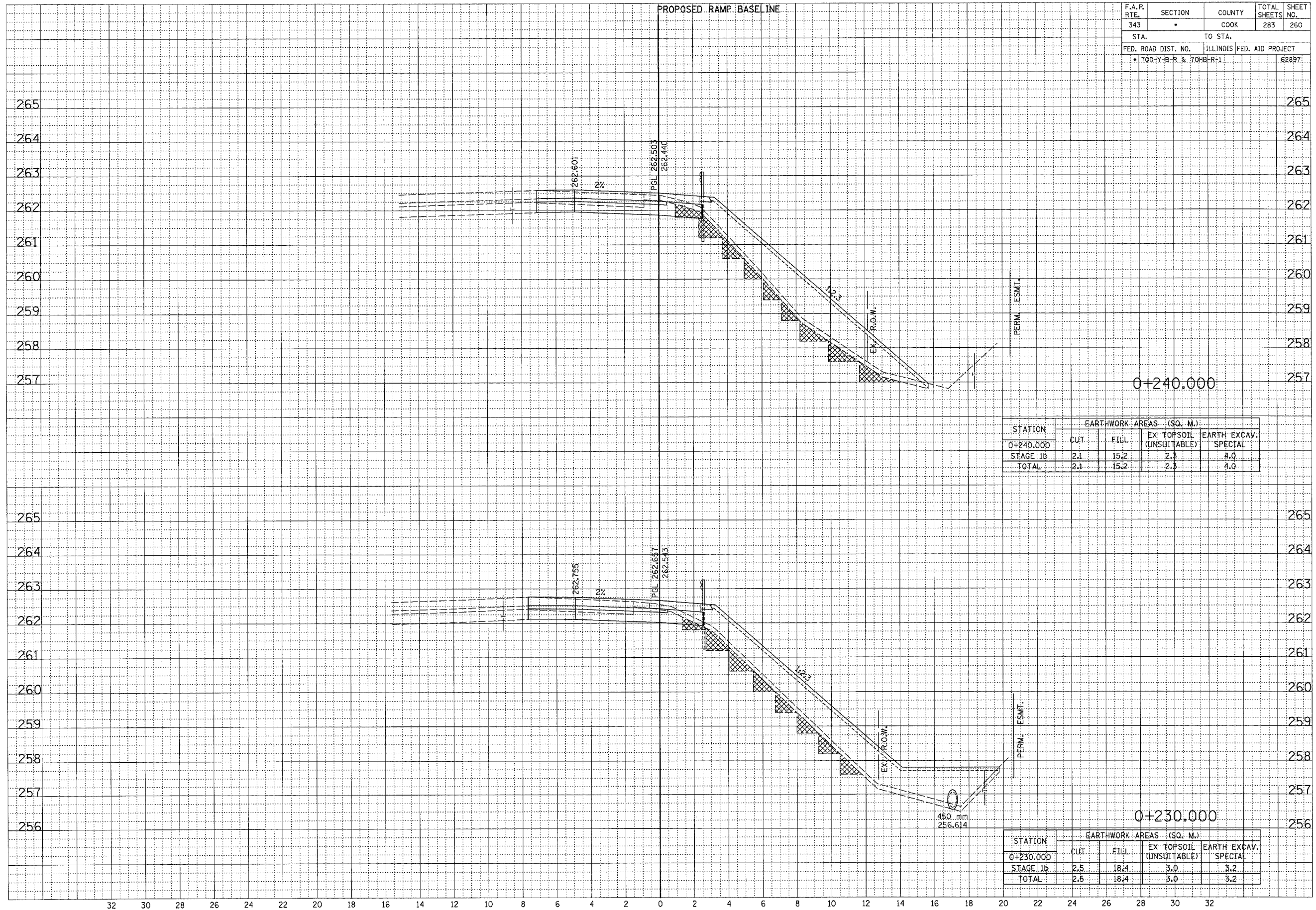
DATE	BY
ORIGINAL SURVEY NOTE BOOK NO.	SUBMITTED SURVEY TEMPLATE AREAS CHECKED



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343		COOK	283	260
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• TO: Y-B-R & 70HB-R-1			62897	

FINAL SURVEY	DATE
NOTE BOOK NO.	BY
AREAS CHECKED	

ORIGINAL SURVEY	DATE
NOTE BOOK NO.	BY
AREAS CHECKED	



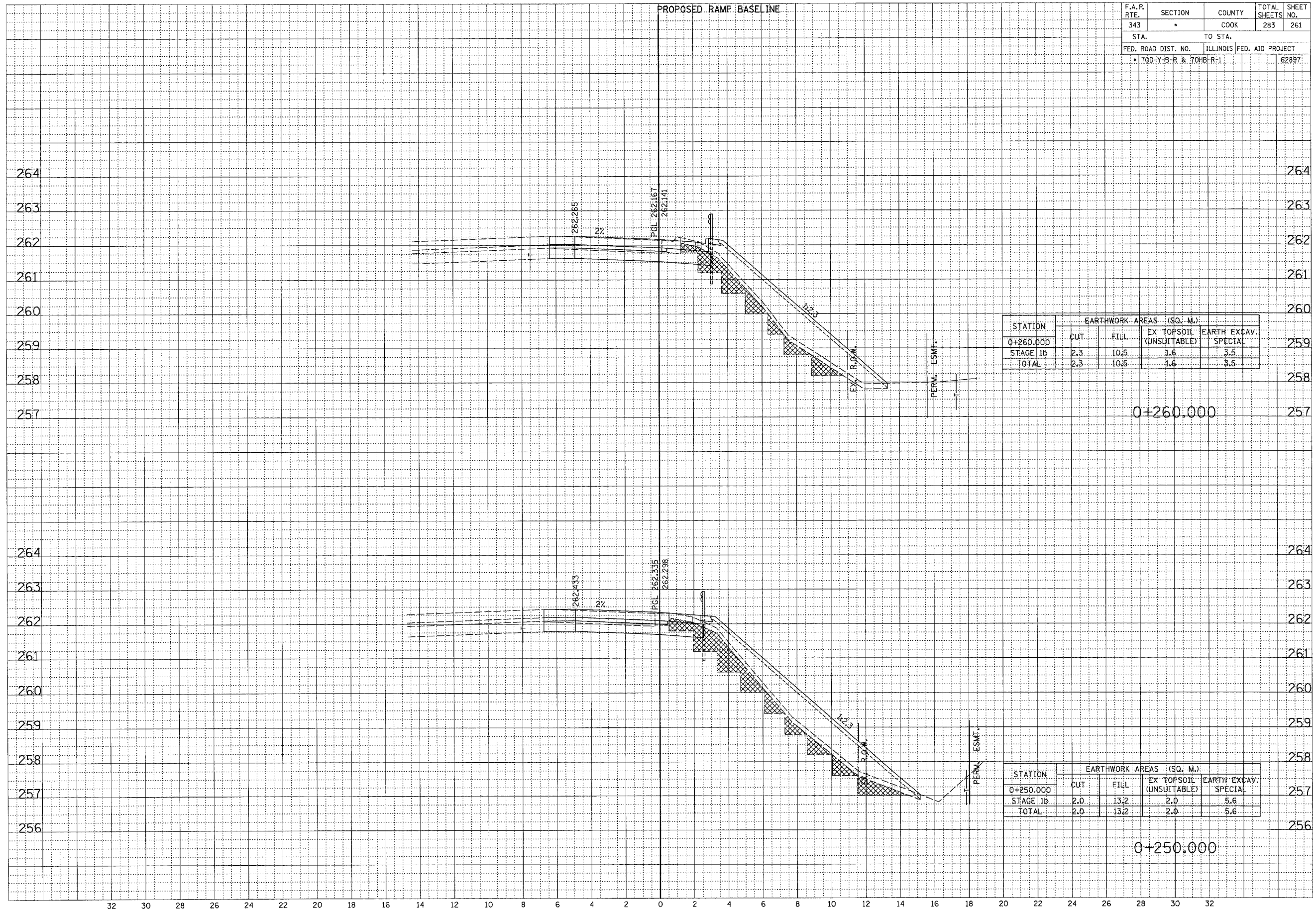
STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+240.000				
STAGE 1b	2.1	15.2	2.3	4.0
TOTAL	2.1	15.2	2.3	4.0

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+230.000				
STAGE 1b	2.5	18.4	3.0	3.2
TOTAL	2.5	18.4	3.0	3.2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	261
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 70D-Y-B-R & 70H-B-R-1				62897

FINAL SURVEY	DATE
REVISIONS	BY
NOTE BOOK	
AREAS CHECKED	

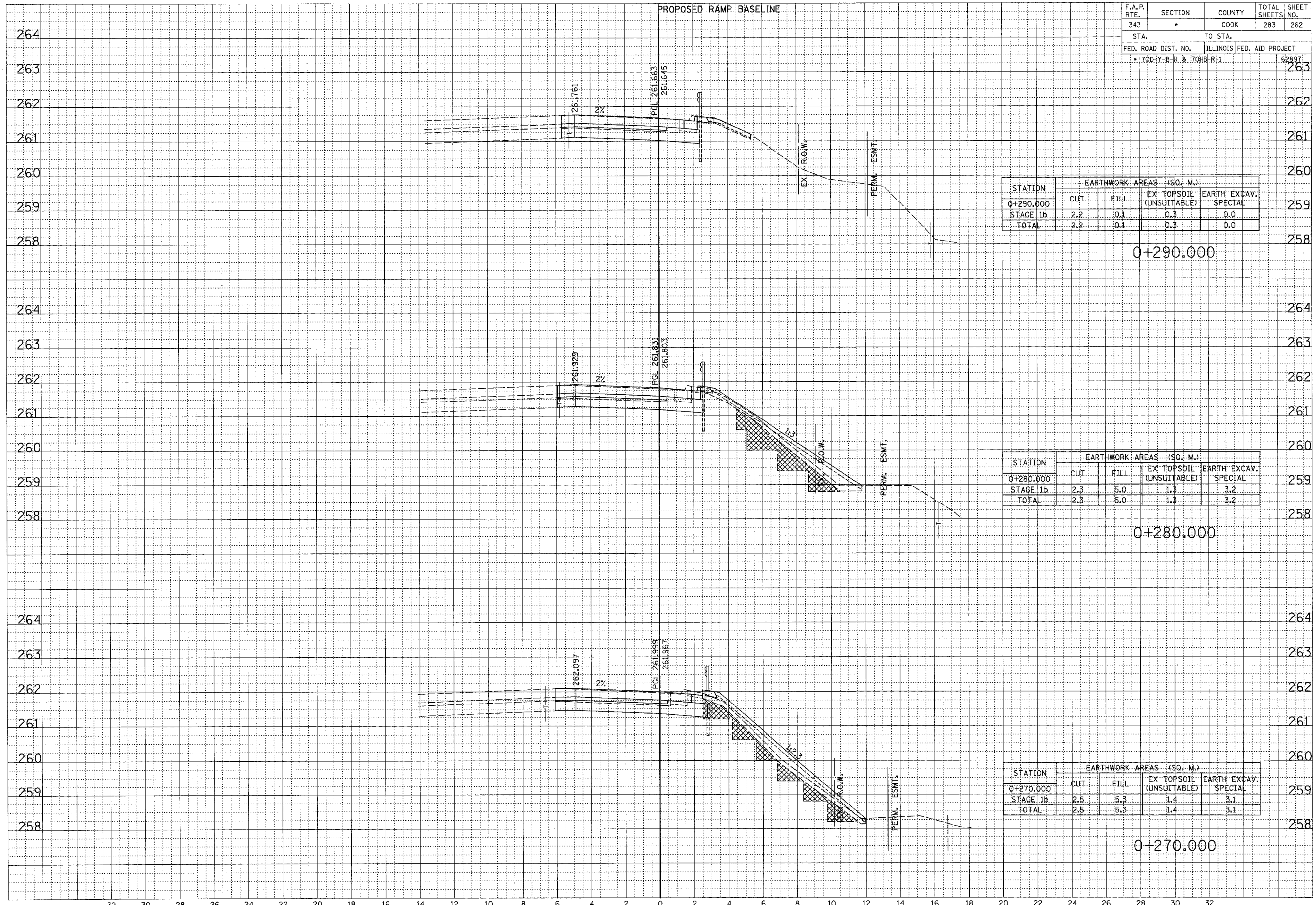
ORIGINAL SURVEY	DATE
REVISIONS	BY
NOTE BOOK	
AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	262
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 70D-Y-B-R & 70H-B-R-1		62897		

FINAL SURVEY	REVIEWED	DATE
NOTE BOOK	PLUTER	
NO.	AREAS CHECKED	

ORIGINAL SURVEY	REVIEWED	DATE
NOTE BOOK	PLUTER	
NO.	AREAS CHECKED	



STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+290.000				
STAGE 1b	2.2	0.1	0.5	0.0
TOTAL	2.2	0.1	0.5	0.0

STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+280.000				
STAGE 1b	2.3	5.0	1.3	3.2
TOTAL	2.3	5.0	1.3	3.2

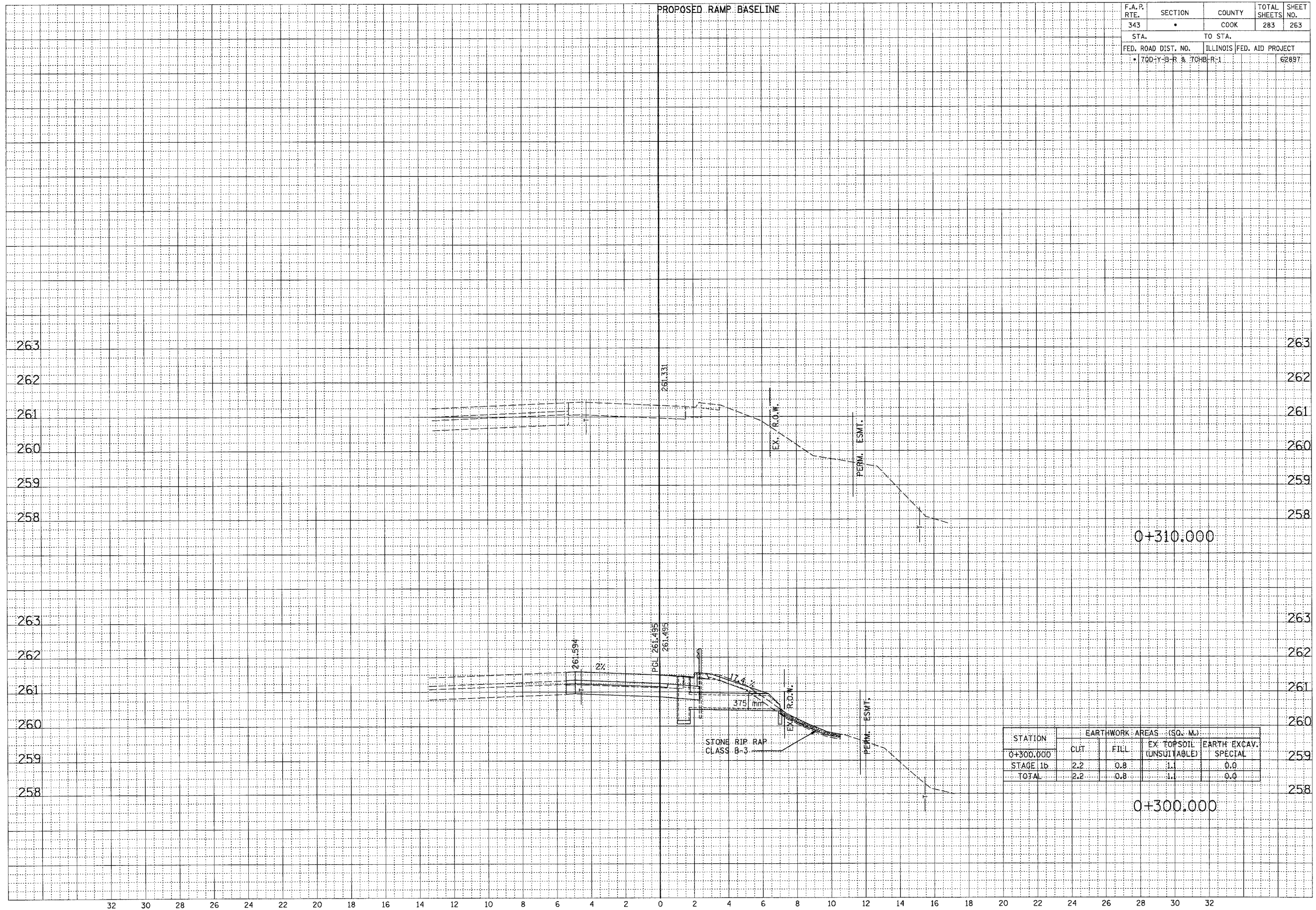
STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+270.000				
STAGE 1b	2.5	5.3	1.4	3.1
TOTAL	2.5	5.3	1.4	3.1

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343		COOK	283	263
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• 700-Y-B-R & 704-B-R-1				62897

FINAL SURVEY	DATE
NOTE BOOK NO.	BY
AREAS CHECKED	

ORIGINAL SURVEY	DATE
NOTE BOOK NO.	BY
AREAS CHECKED	

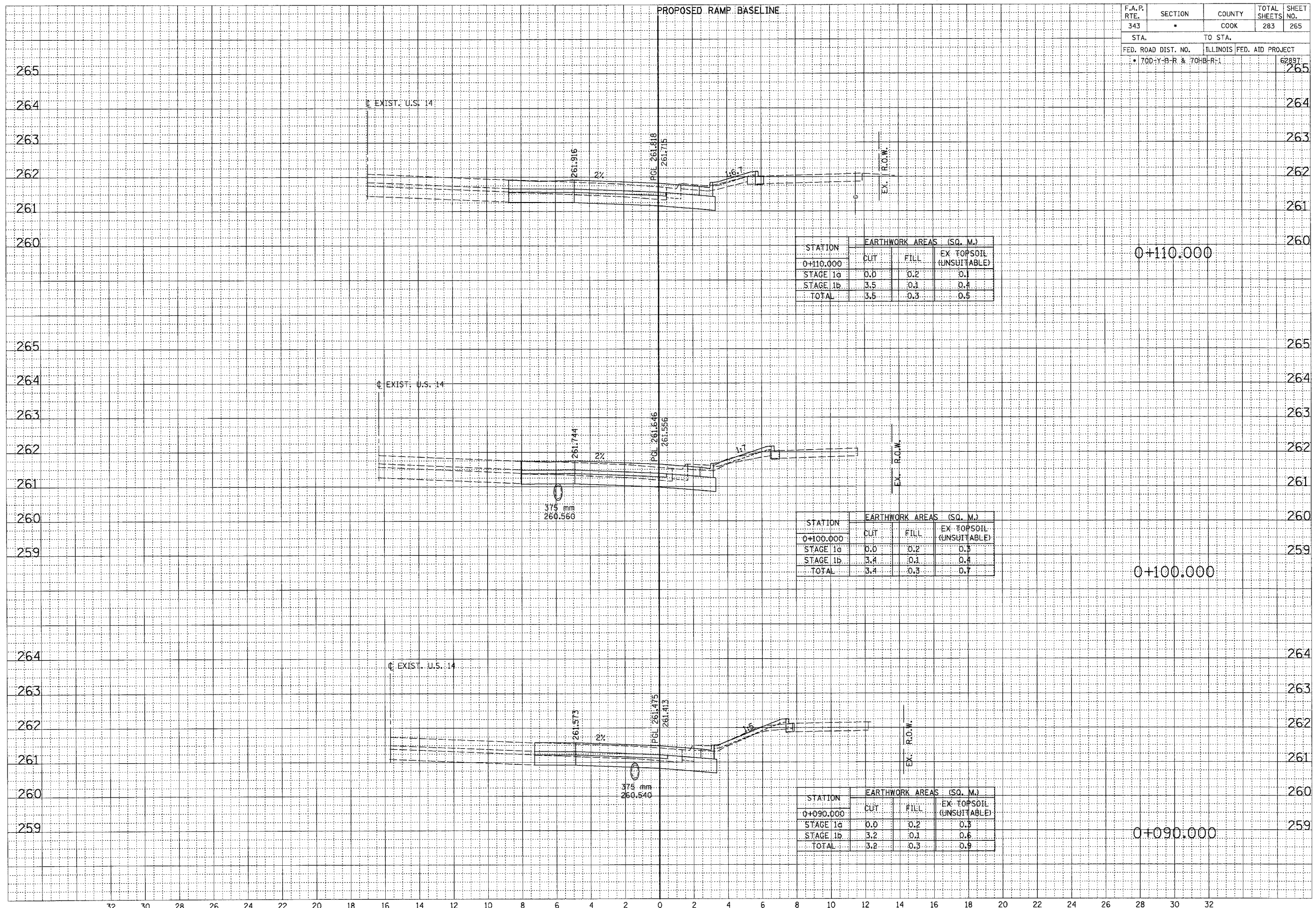


STATION	EARTHWORK AREAS (SQ. M.)			
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)	EARTH EXCAV. SPECIAL
0+300.000				
STAGE 1b	2.2	0.8	1.1	0.0
TOTAL	2.2	0.8	1.1	0.0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343		COOK	283	265
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		62887
• 70D-Y-B-R & 70H-B-R-1				265

FINAL SURVEY	DATE
REVISIONS	BY
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
REVISIONS	BY
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



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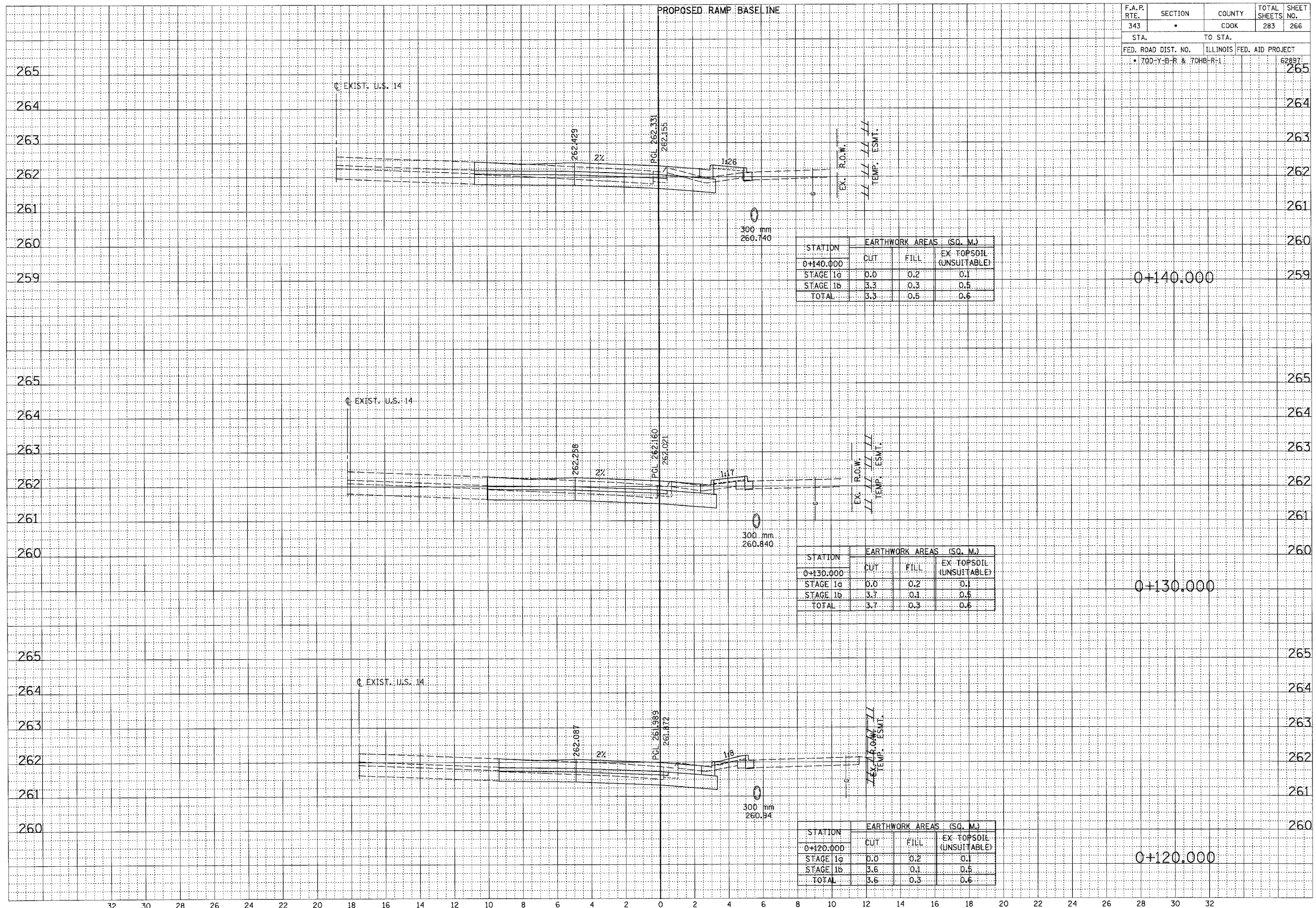
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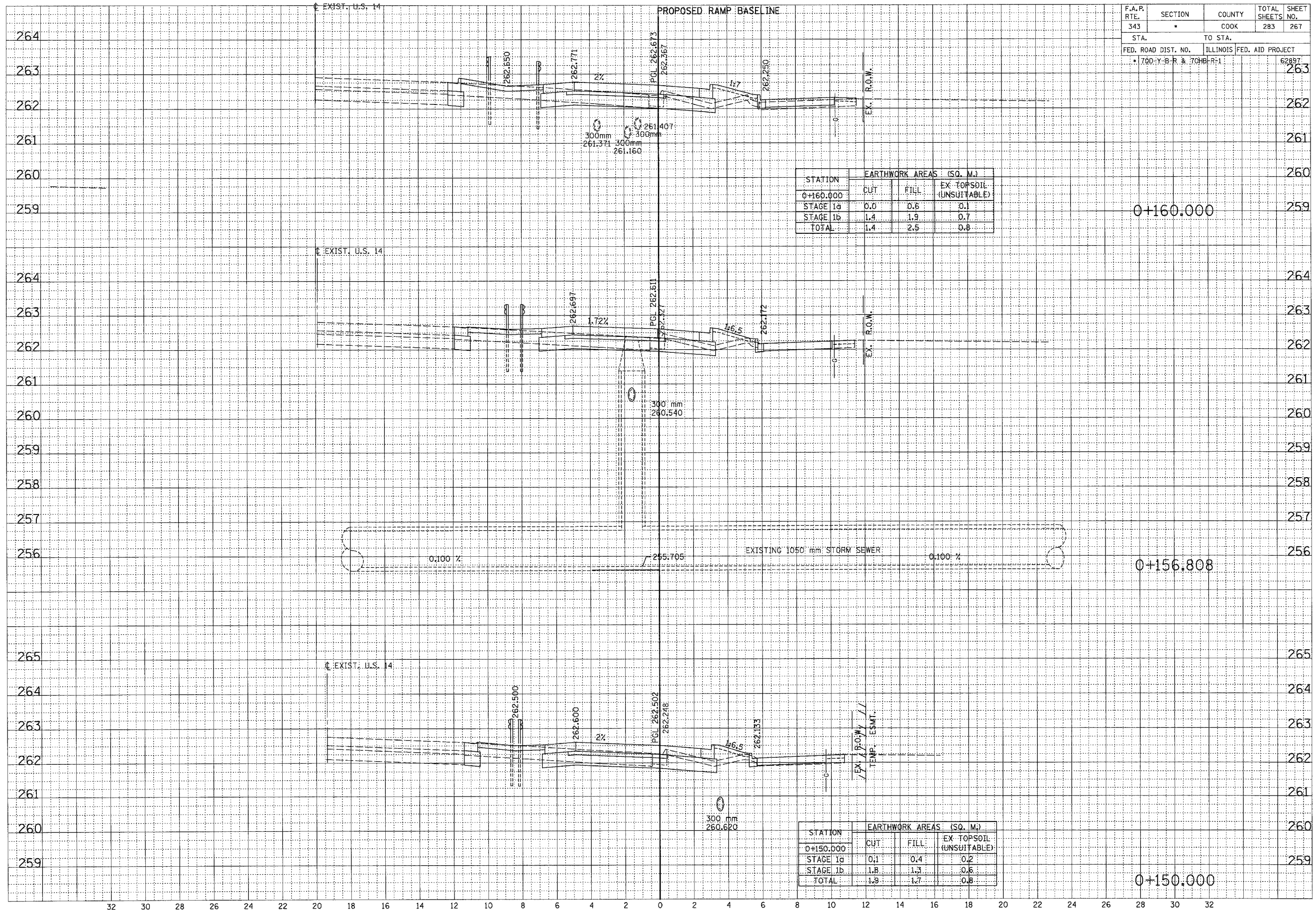
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	266
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* 700-Y-B-R & 70HB-R-1			62887	

FINAL SURVEY	DATE
SUBMITTED	BY
REPLATED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
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ORIGINAL SURVEY	DATE
SUBMITTED	BY
REPLATED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



F.A.P. RTE. 343	SECTION *	COUNTY COOK	TOTAL SHEETS 283	SHEET NO. 267
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		62897
* 700-Y-B-R & 704B-R-1				



STATION	EARTHWORK AREAS (SQ. M.)		
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)
0+160.000			
STAGE 1a	0.0	0.6	0.1
STAGE 1b	1.4	1.9	0.7
TOTAL	1.4	2.5	0.8

STATION	EARTHWORK AREAS (SQ. M.)		
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)
0+150.000			
STAGE 1a	0.1	0.4	0.2
STAGE 1b	1.8	1.3	0.6
TOTAL	1.9	1.7	0.8

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DATE	BY

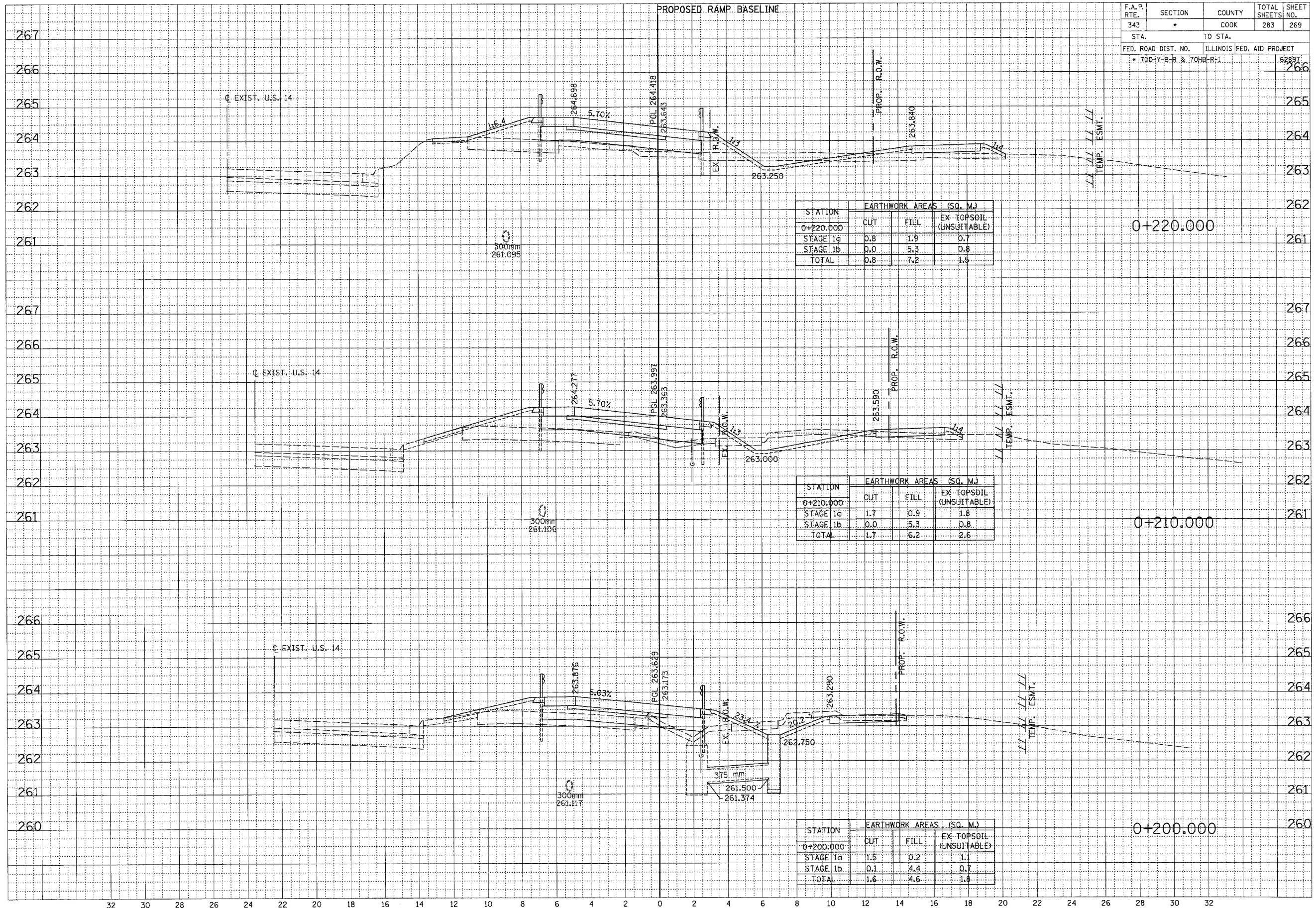
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DATE	BY
DATE	BY

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	•	COOK	283	269
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• 70D-Y-B-R & 70H-B-R-1		62897		

FINAL SURVEY NOTE BOOK NO.	REVISIONS	DATE
	PLOTTED	
	TEMPERATURE	
	AREAS CHECKED	

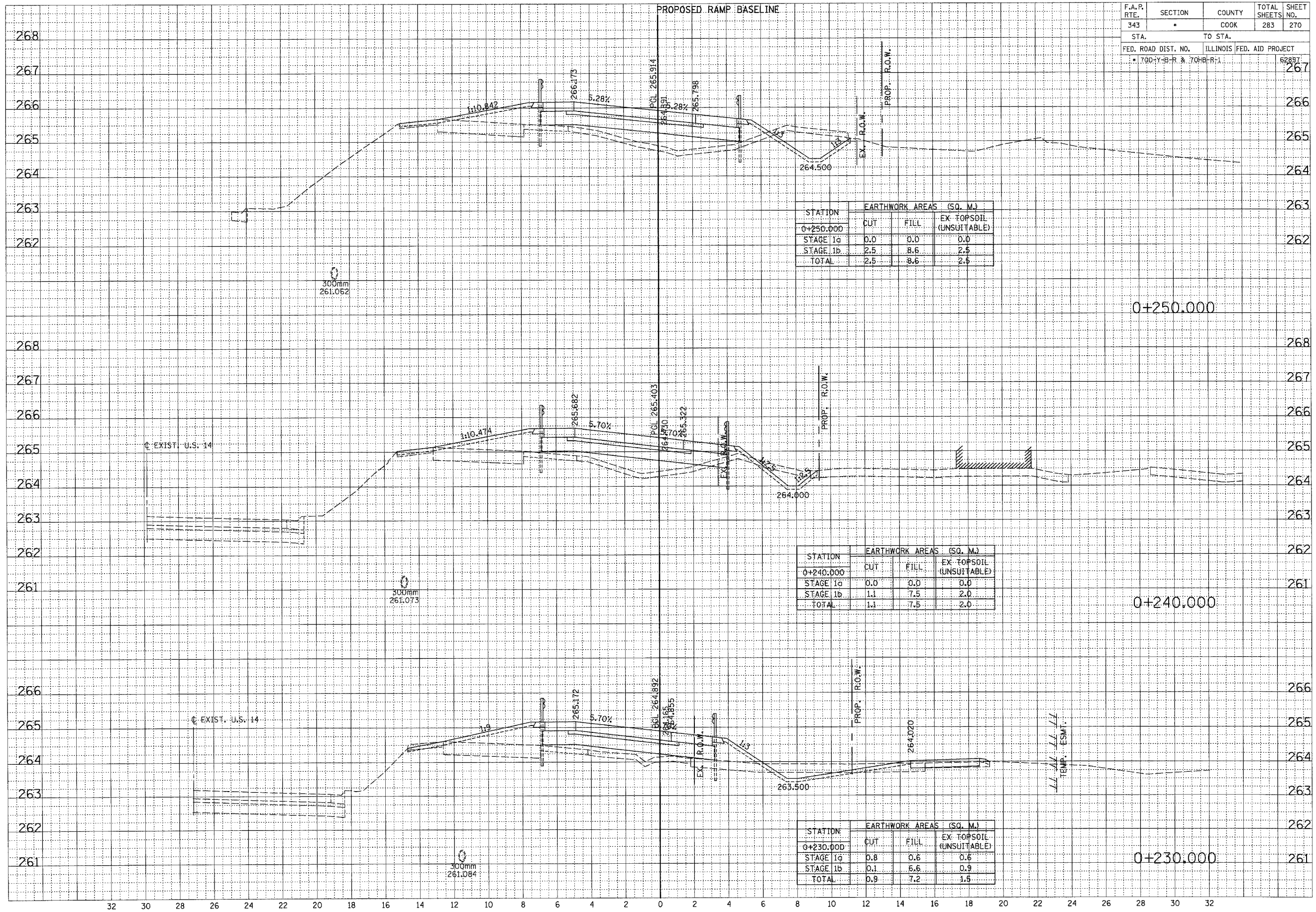
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	PLOTTED	
	TEMPERATURE	
	AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	270
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 70D-Y-B-R & 70H-B-R-1		62897		

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

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



STATION	EARTHWORK AREAS (SQ. M.)		
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)
0+250.000	0.0	0.0	0.0
STAGE 1a	2.5	8.6	2.5
STAGE 1b	2.5	8.6	2.5
TOTAL	2.5	8.6	2.5

STATION	EARTHWORK AREAS (SQ. M.)		
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)
0+240.000	0.0	0.0	0.0
STAGE 1a	1.1	7.5	2.0
STAGE 1b	1.1	7.5	2.0
TOTAL	1.1	7.5	2.0

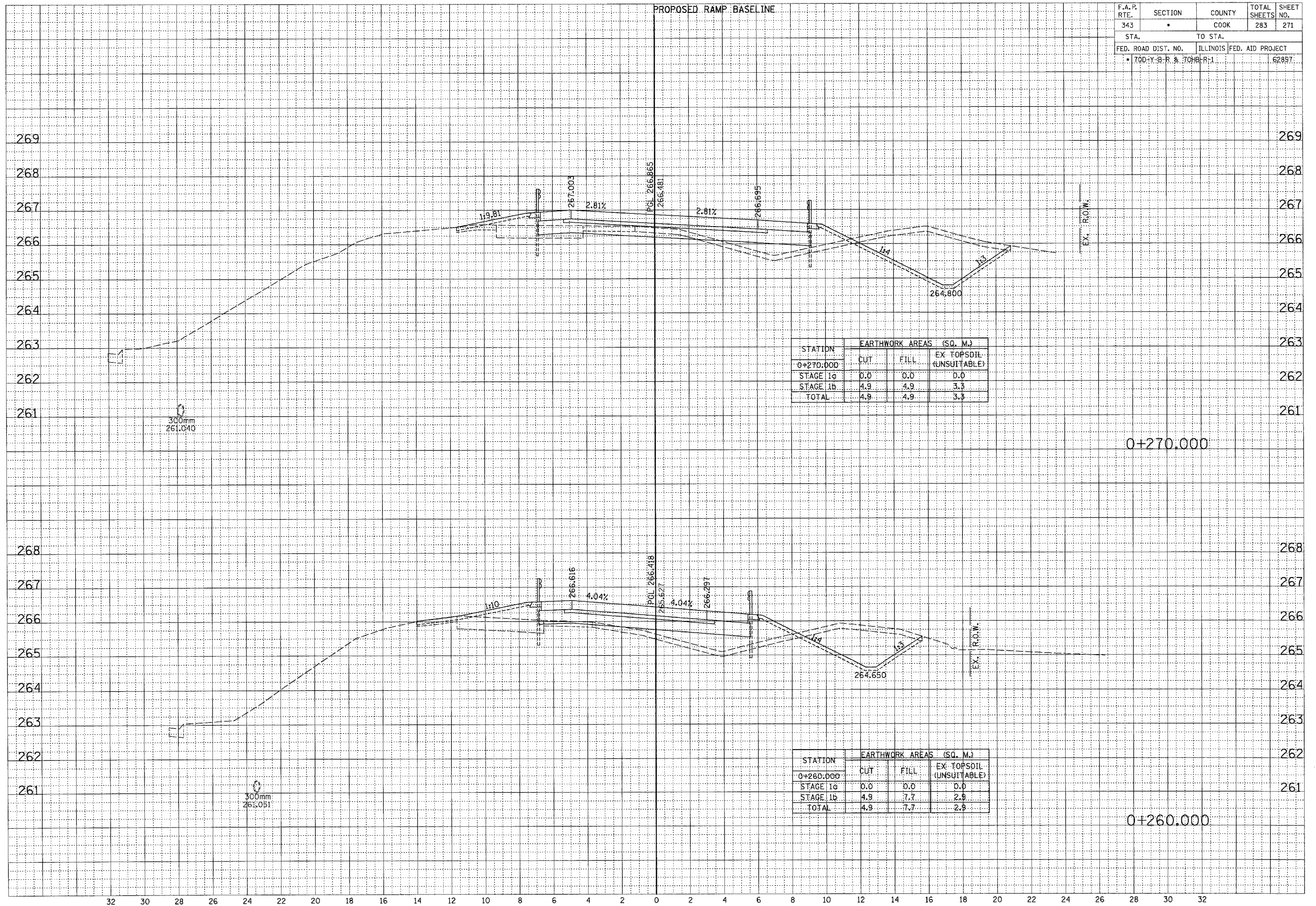
STATION	EARTHWORK AREAS (SQ. M.)		
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)
0+230.000	0.8	0.6	0.6
STAGE 1a	0.1	5.6	0.9
STAGE 1b	0.1	5.6	0.9
TOTAL	0.9	7.2	1.5

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	271
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 700-Y-B-R & 700-B-R-1				62897

FINAL SURVEY	DATE
BY	
REVISIONS	
NO.	
ORIGINAL SURVEY	DATE
BY	
REVISIONS	
NO.	

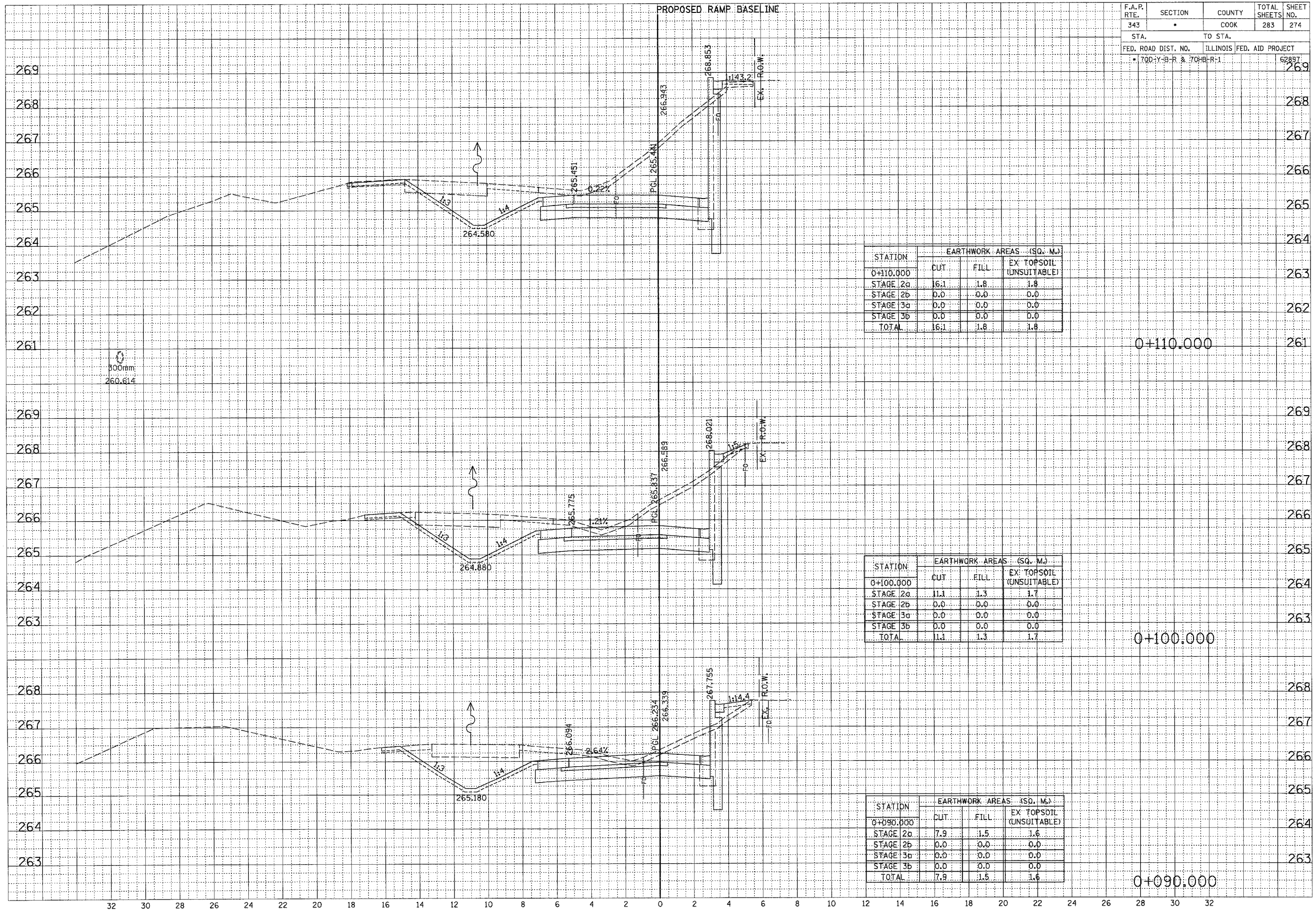
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BY	
REVISIONS	
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ORIGINAL SURVEY	DATE
BY	
REVISIONS	
NO.	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343		COOK	283	274
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		62887
• 70D-Y-B-R & 70D-B-R-1				

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

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

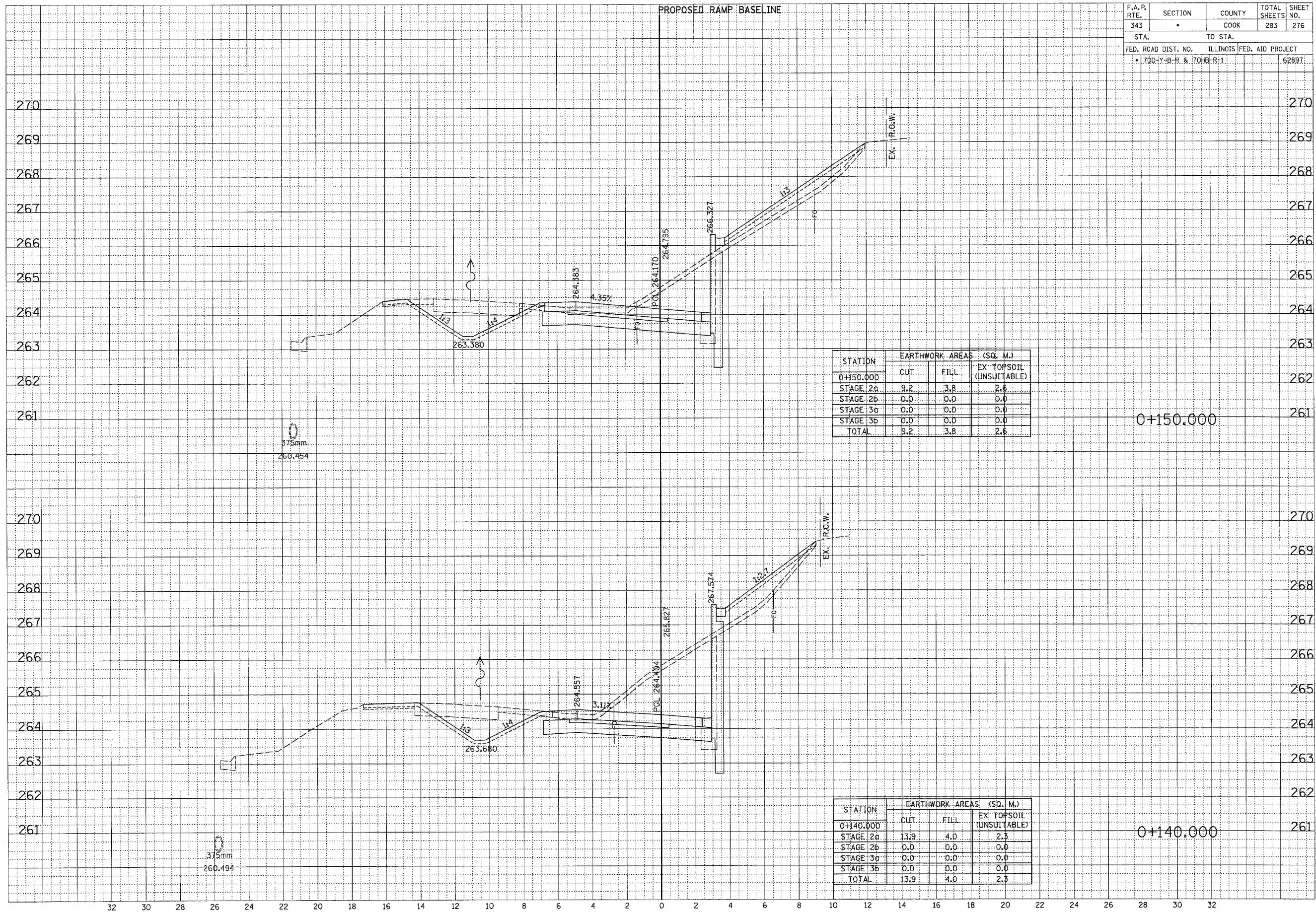


STATION	EARTHWORK AREAS (SQ. M.)		
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)
0+110.000			
STAGE 2a	16.1	1.8	1.8
STAGE 2b	0.0	0.0	0.0
STAGE 3a	0.0	0.0	0.0
STAGE 3b	0.0	0.0	0.0
TOTAL	16.1	1.8	1.8

STATION	EARTHWORK AREAS (SQ. M.)		
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)
0+100.000			
STAGE 2a	11.1	1.3	1.7
STAGE 2b	0.0	0.0	0.0
STAGE 3a	0.0	0.0	0.0
STAGE 3b	0.0	0.0	0.0
TOTAL	11.1	1.3	1.7

STATION	EARTHWORK AREAS (SQ. M.)		
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)
0+090.000			
STAGE 2a	7.9	1.5	1.6
STAGE 2b	0.0	0.0	0.0
STAGE 3a	0.0	0.0	0.0
STAGE 3b	0.0	0.0	0.0
TOTAL	7.9	1.5	1.6

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	276
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
* 700-Y-B-R & 700-B-R-1				62897



STATION	EARTHWORK AREAS (SQ. M.)		
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)
0+150.000			
STAGE 2a	9.2	3.8	2.6
STAGE 2b	0.0	0.0	0.0
STAGE 3a	0.0	0.0	0.0
STAGE 3b	0.0	0.0	0.0
TOTAL	9.2	3.8	2.6

STATION	EARTHWORK AREAS (SQ. M.)		
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)
0+140.000			
STAGE 2a	13.9	4.0	2.3
STAGE 2b	0.0	0.0	0.0
STAGE 3a	0.0	0.0	0.0
STAGE 3b	0.0	0.0	0.0
TOTAL	13.9	4.0	2.3

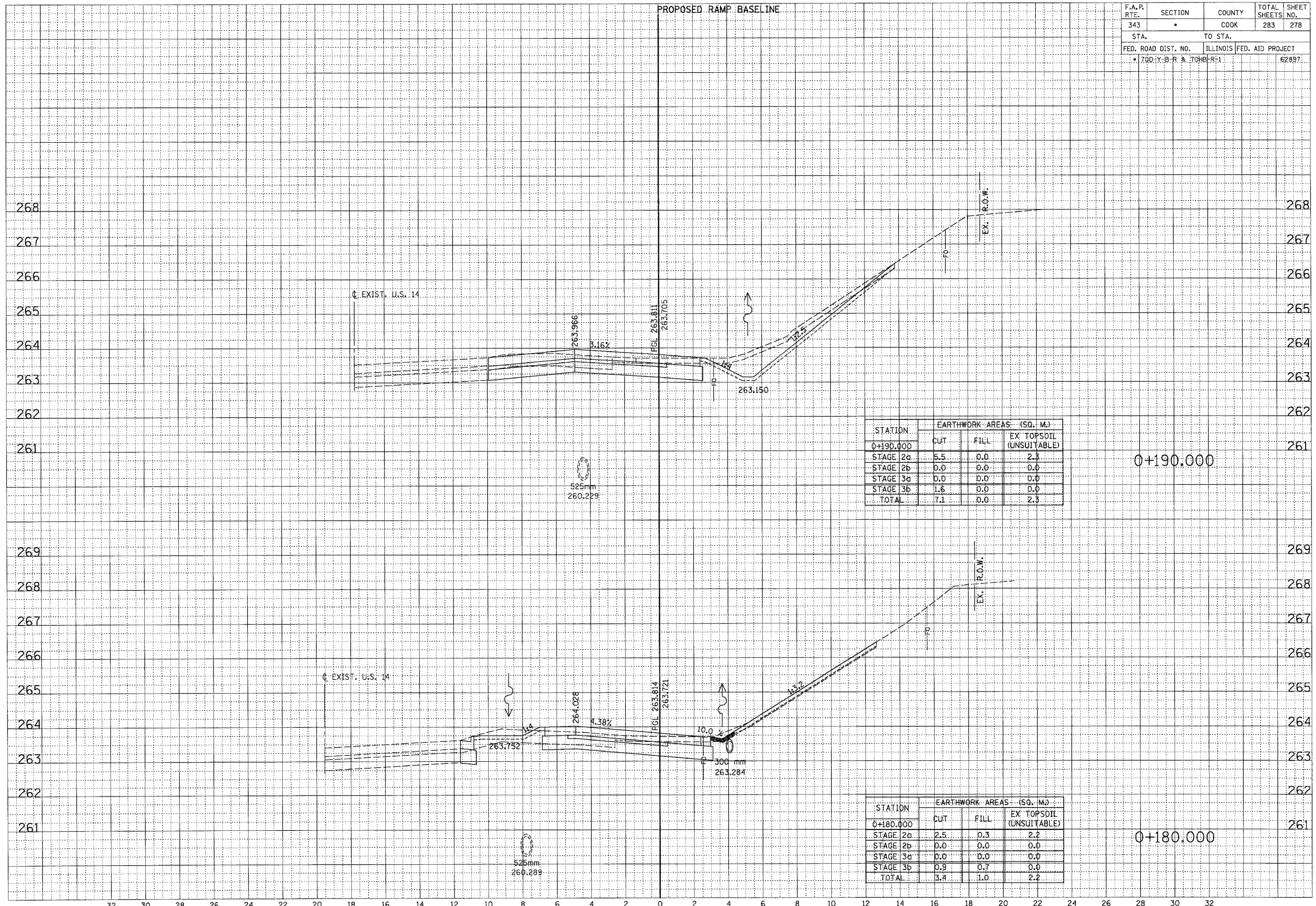
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NOTE BOOK NO.	PLOTTED		
AREAS CHECKED	APPROPRIATE		
	AREAS CHECKED		

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343		COOK	283	278
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• 700-Y-B-R & 704-B-R-1			62497	

DATE	BY
FINISHED	BY
SURVEY	
NOTE BOOK	
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DATE	BY
ORIGINAL	BY
SURVEY	
NOTE BOOK	
NO.	



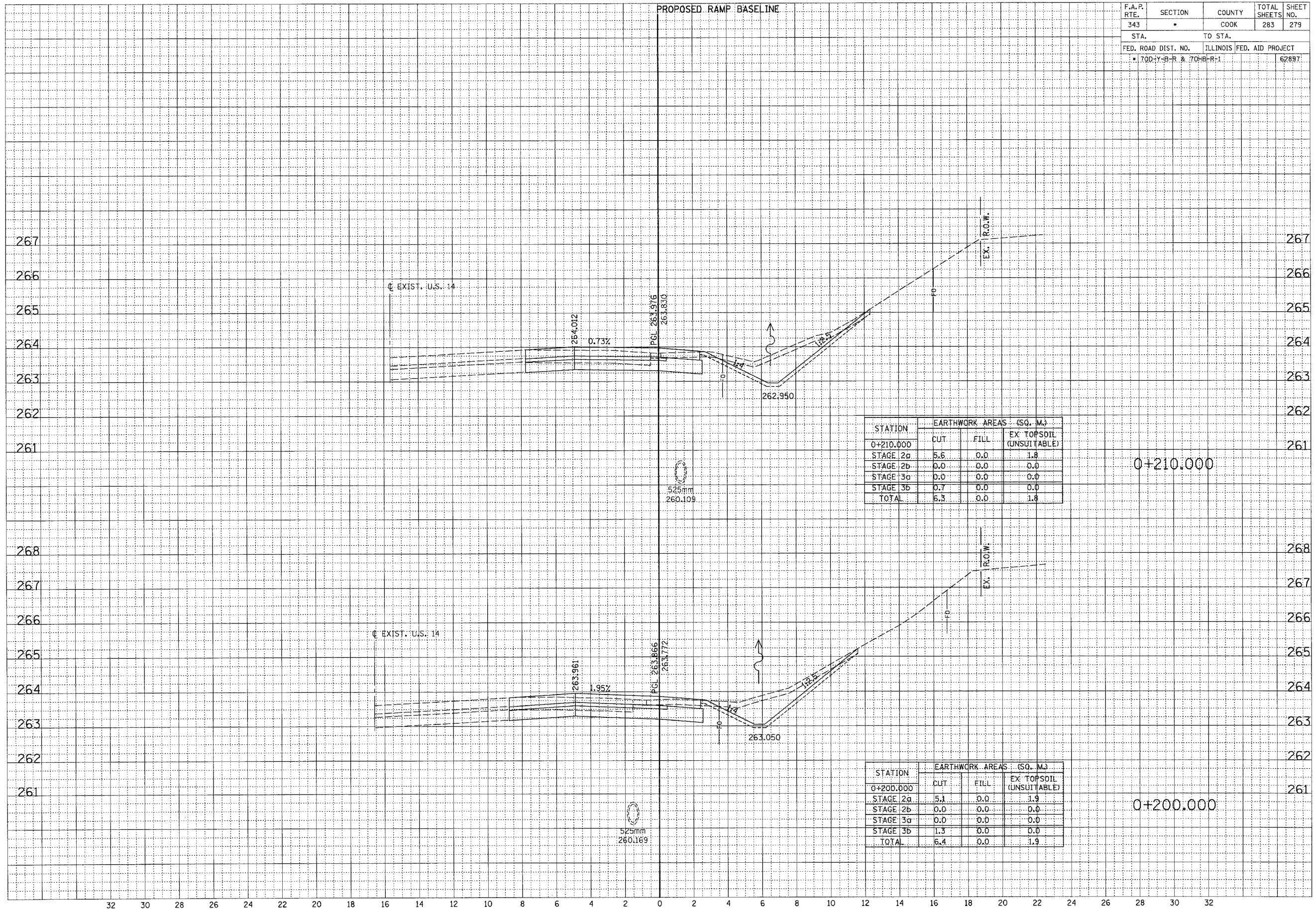
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343		COOK	283	279
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 70D-Y-B-R & 70H-B-R-1				62897

DATE	BY
FINISHED SURVEY	REVISIONS
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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

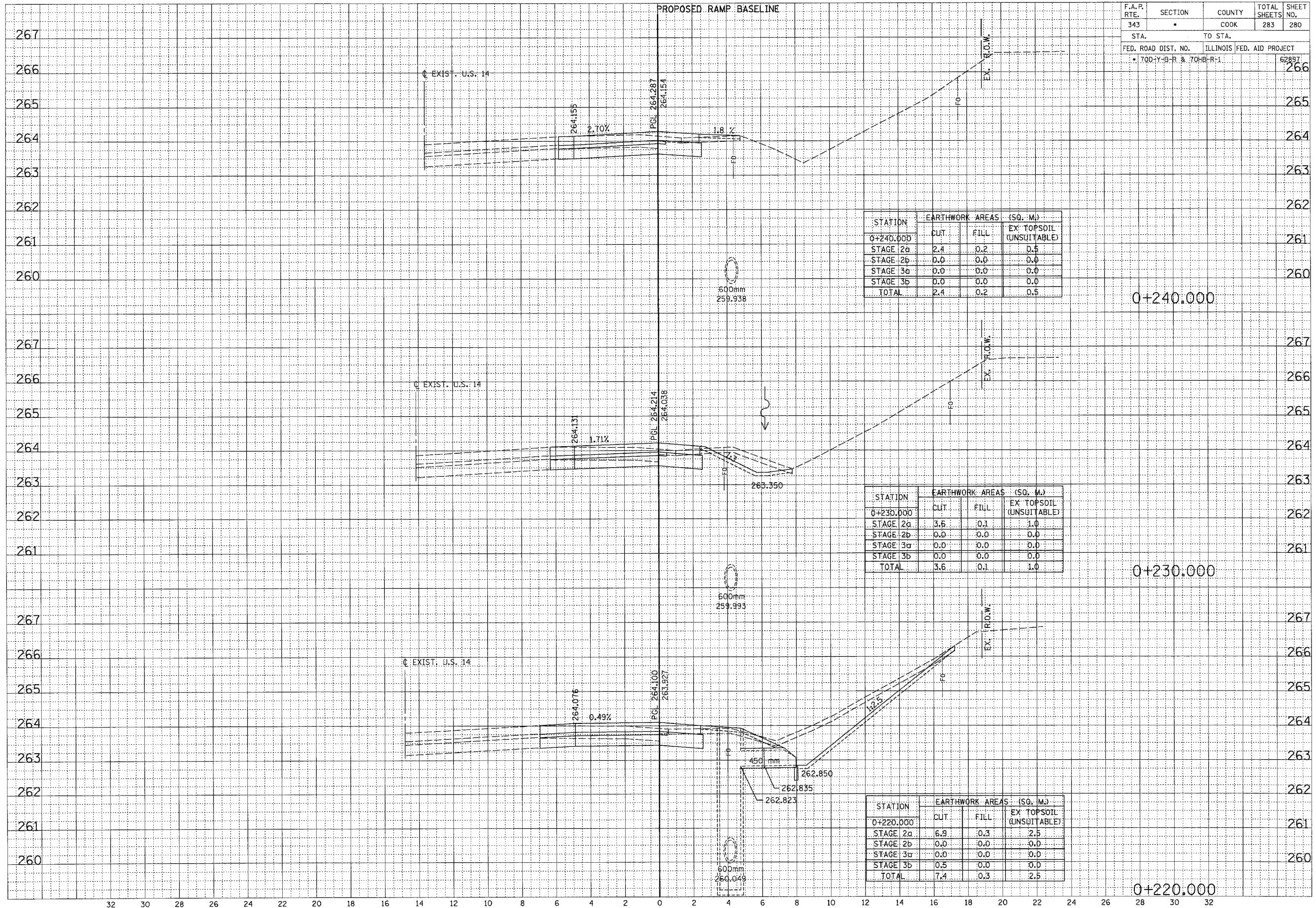


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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	•	COOK	283	280
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• 70D-Y-B-R & 70B-R-1		62857		

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

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



STATION	EARTHWORK AREAS (SQ. M.)		
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)
0+240.000			
STAGE 2a	2.4	0.2	0.5
STAGE 2b	0.0	0.0	0.0
STAGE 3a	0.0	0.0	0.0
STAGE 3b	0.0	0.0	0.0
TOTAL	2.4	0.2	0.5

STATION	EARTHWORK AREAS (SQ. M.)		
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)
0+230.000			
STAGE 2a	3.6	0.1	1.0
STAGE 2b	0.0	0.0	0.0
STAGE 3a	0.0	0.0	0.0
STAGE 3b	0.0	0.0	0.0
TOTAL	3.6	0.1	1.0

STATION	EARTHWORK AREAS (SQ. M.)		
	CUT	FILL	EX. TOPSOIL (UNSUITABLE)
0+220.000			
STAGE 2a	6.9	0.3	2.5
STAGE 2b	0.0	0.0	0.0
STAGE 3a	0.0	0.0	0.0
STAGE 3b	0.5	0.0	0.0
TOTAL	7.4	0.3	2.5

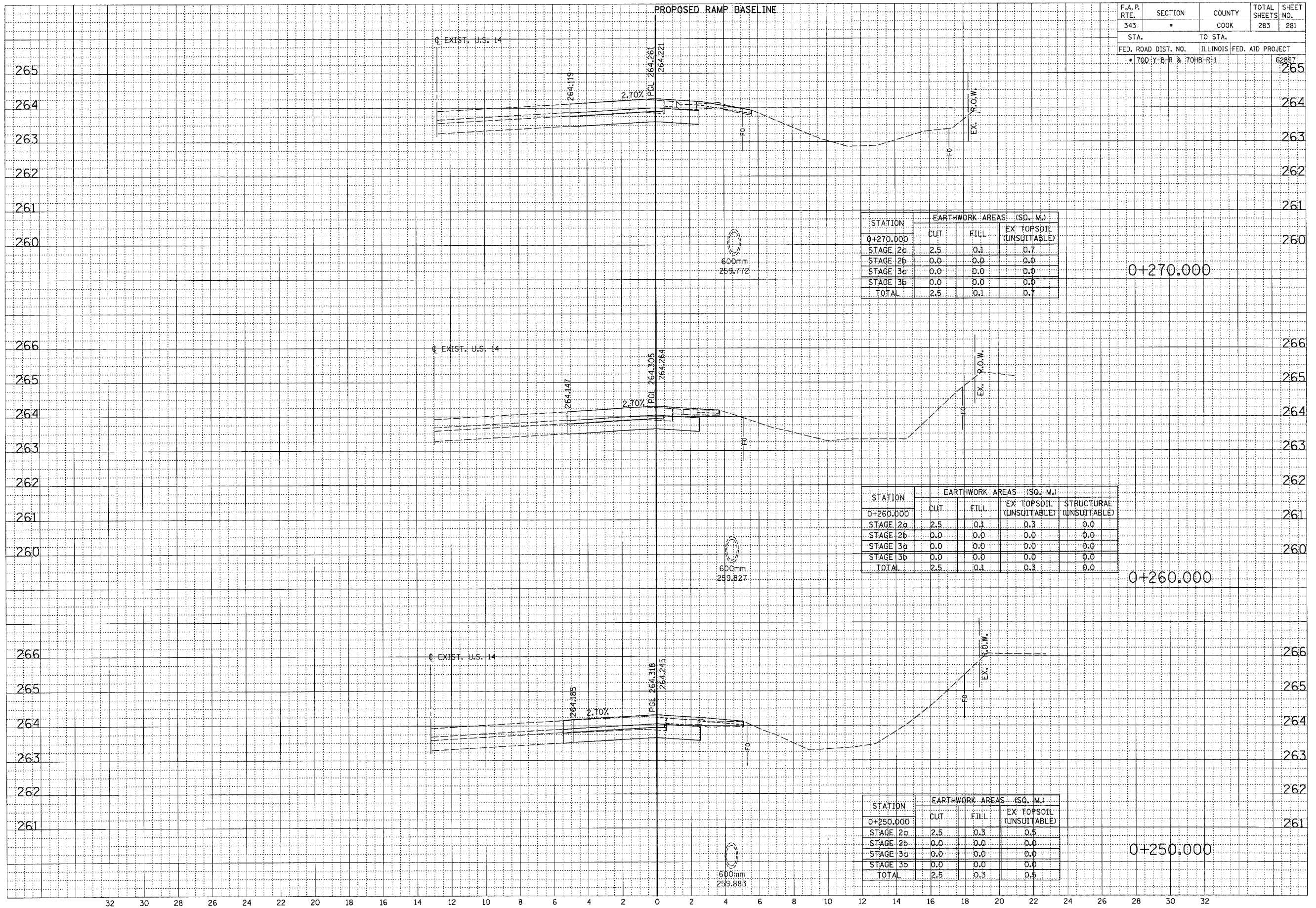
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	281
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• 700-Y-B-R & 70HB-R-1				62897

FINAL SURVEY	DATE
NO. 1	
NO. 2	
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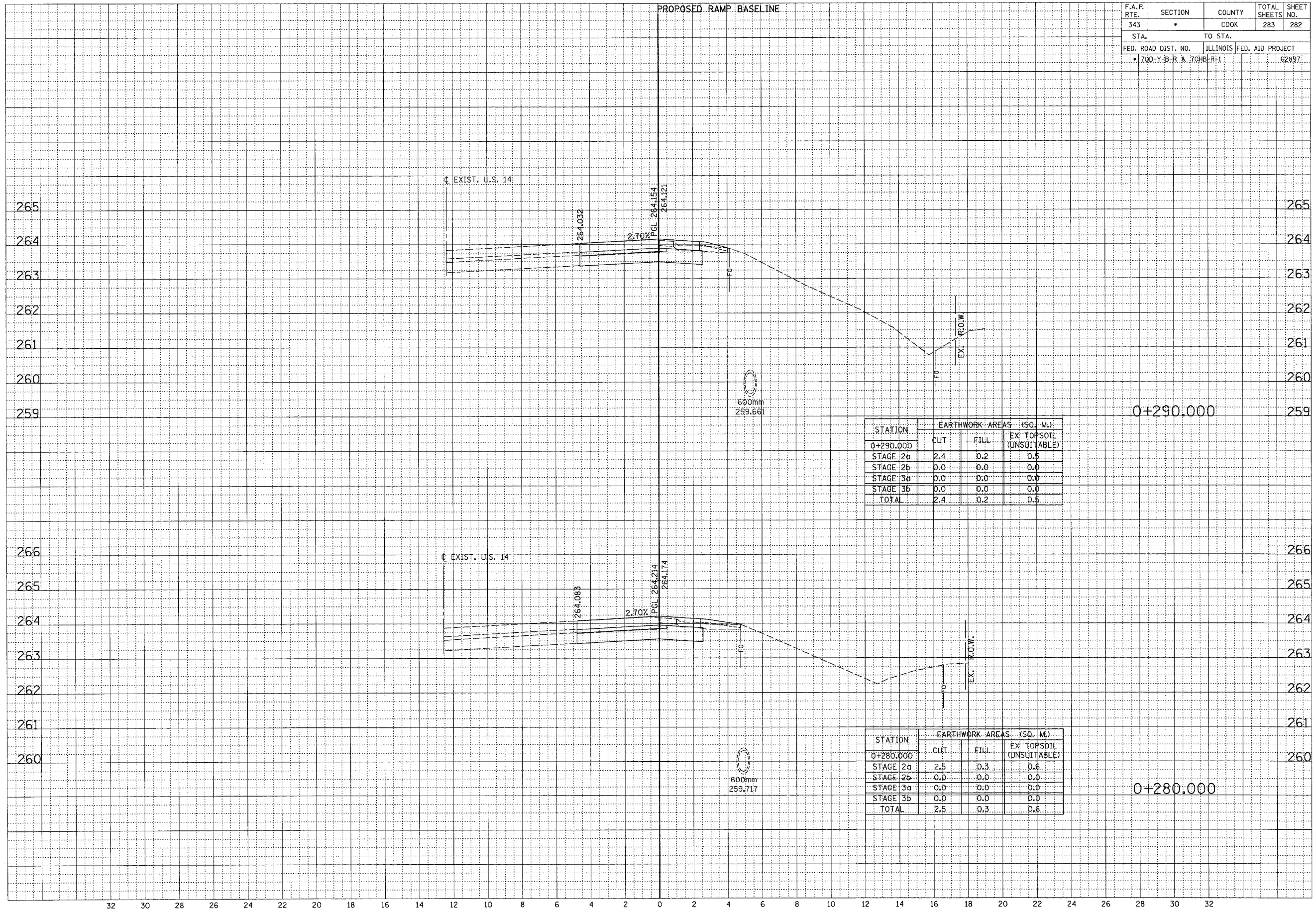
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	282
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* 700-Y-B-R & 700-B-R-1			62897	

FINAL SURVEY	REVISIONS	DATE
NOTE BOOK	PLUTED	
NO.	AREAS CHECKED	

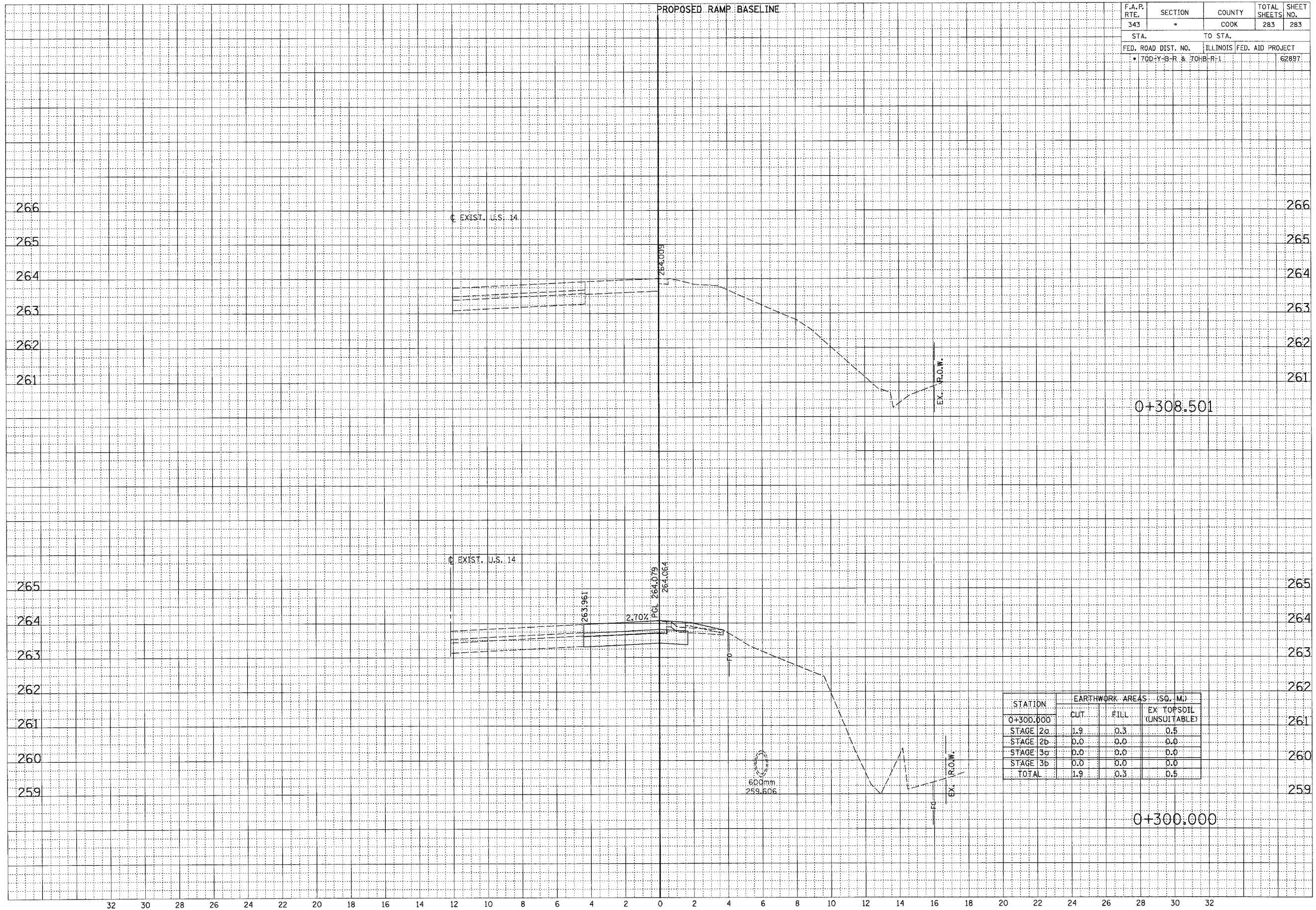
ORIGINAL SURVEY	REVISIONS	DATE
NOTE BOOK	PLUTED	
NO.	AREAS CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	*	COOK	283	283
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* 70D-Y-B-R & 70H-B-R-1		62897		

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

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



STATION	EARTHWORK AREAS (SQ. M.)		
	CUT	FILL	EX TOPSOIL (UNSUITABLE)
0+300.000			
STAGE 2a	1.9	0.3	0.5
STAGE 2b	0.0	0.0	0.0
STAGE 3a	0.0	0.0	0.0
STAGE 3b	0.0	0.0	0.0
TOTAL	1.9	0.3	0.5