

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID PROJECT

CENTENNIAL TRAIL, (COOK COUNTY)

PORTAGE HISTORICAL SITE TO 47TH STREET / DES PLAINES RIVER

BICYCLE TRAIL

SECTION 08-F3000-20-BT

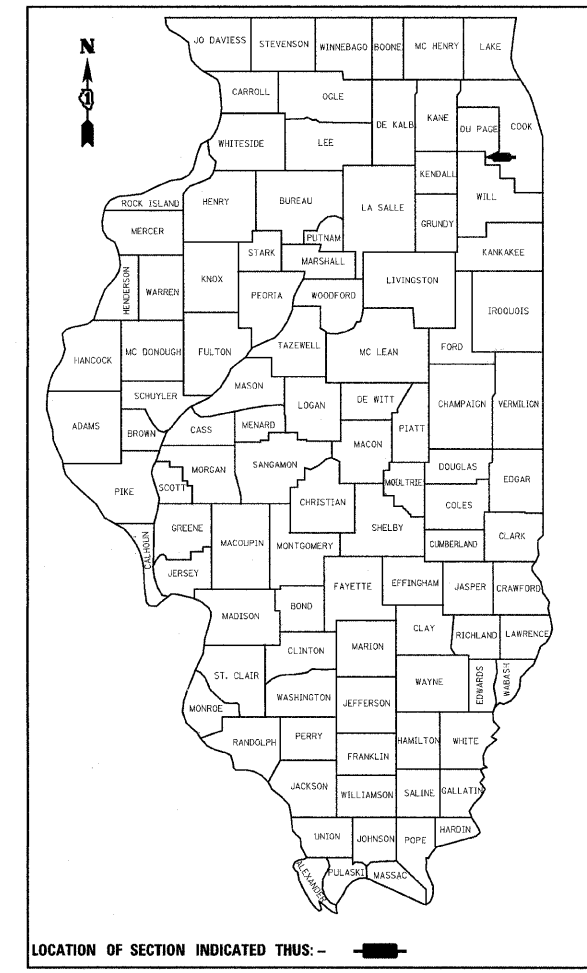
PROJECT: TE-00D1(792)

JOB: C-91-442-08

FOREST PRESERVE DISTRICT OF COOK COUNTY

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT	COOK	29	1

CONTRACT NO. 63052

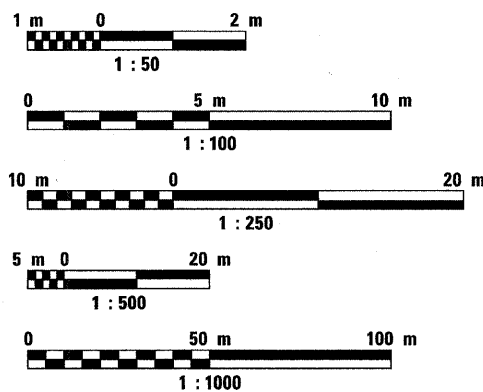


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DESIGN DESIGNATION
BIKE PATH
DESIGN SPEED LIMIT
20 MPH

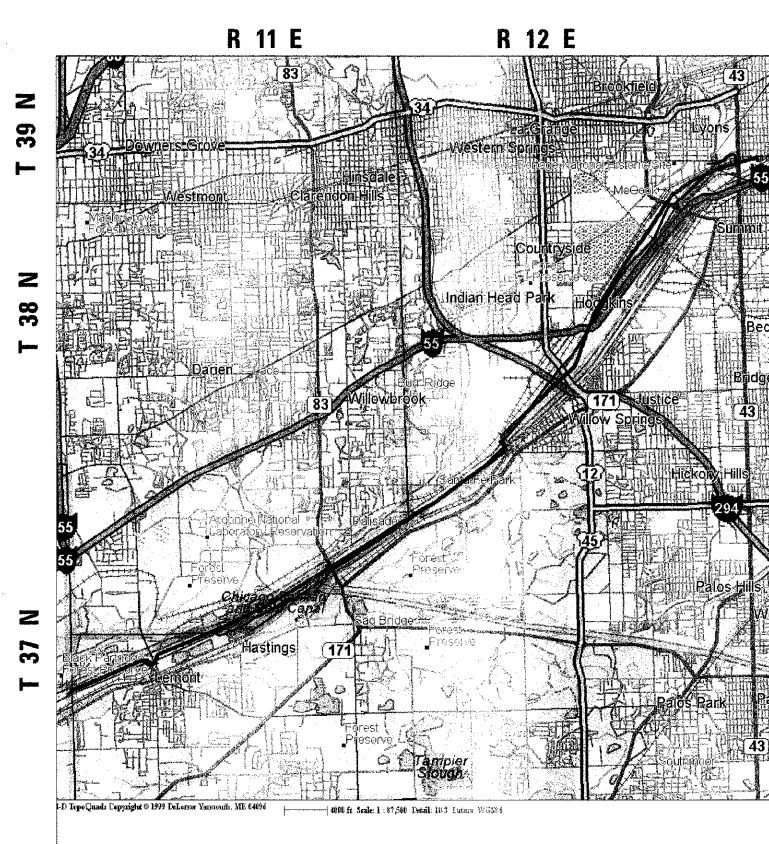
METRIC RATIOS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 63052



LOCATION MAP
SCALE 1:20,000

GROSS LENGTH = 1510.34 METERS
NET LENGTH = 1476.43 METERS

END CONSTRUCTION
STA. 26 + 615.344

BEGIN CONSTRUCTION
STA. 25 + 105

COOK COUNTY:
STA. 25+105 TO STA. 26+621.77

FIELD ENGINEER: M. SOLOMON (847) 705-4407

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 5/11/2008

FOREST PRESERVE DISTRICT OF COOK COUNTY

PASSED May 28 2007
CHRISTOPHER HUB
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED REVIEW MAY 28, 2007
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PLANS PREPARED BY:

URS 100 S. WACKER DR. SUITE 500
CHICAGO, IL, 60606
TEL. (312)-939-1000
FAX (312)-939-4198



DATE: 4/30/08
Expires: 11/30/09

PLAN NOTES

GENERAL NOTES BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED UTILITY FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).

ALL STATION-OFFSET CALL OUTS AND CURVE DATA ON THE PLANS REFER TO THE PROPOSED CENTERLINE UNLESS OTHERWISE SHOWN.

IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS

STANDARDS ANY REFERENCE TO "STANDARDS" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF IDOT AS LISTED ON THIS SHEET.

COORDINATION THE CONTRACTOR SHALL NOTIFY THE THEMETROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO AND THE FOREST PRESERVE DISTRICT OF COOK COUNTY AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK, AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER.

PUBLIC OR PRIVATE UTILITIES THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE, AND THE DISTRICT DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATIONS OF SUCH UTILITIES AND EXERCISE CARE DURING CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM, IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.20 OF THE "STANDARD SPECIFICATIONS". THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY OWNERS SO THAT THEIR FACILITIES MAY BE ADJUSTED OR RELOCATED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED IN THE PLANS. ALL RELOCATION WORK ON EXISTING PRIVATE UTILITIES WILL BE CONSTRUCTED BY THE OWNER OF THAT UTILITY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY, AND SHALL RESTORE SUCH PROPERTY AT HIS/HER OWN EXPENSE.

SURVEY MONUMENTS THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE MONUMENTS ARE REMOVED.

EXISTING DRAINAGE STRUCTURES DURING CONSTRUCTION OPERATIONS, WHENEVER ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED BY THE CONTRACTOR AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS, AND DISCHARGE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

UNSUITABLE MATERIAL BEFORE REMOVAL OF ANY UNSUITABLE MATERIAL, THE CONTRACTOR SHALL TREAT THE SUBGRADE AS PER ARTICLE 301.03 OF THE "STANDARD SPECIFICATIONS" TO THE SATISFACTION OF THE ENGINEER. UNSUITABLE MATERIAL SHALL NOT BE USED AS EMBANKMENT OR FILL UNDER THE PROPOSED PATH AS SHOWN ON THE TYPICAL CROSS SECTIONS.

STOCKPILES STOCKPILES OF TOPSOIL AND OTHER MATERIALS SHALL NOT BE LOCATED WITHIN A SPECIAL MANAGEMENT AREA. APPROVAL OF THE LOCATION MUST BE OBTAINED FROM THE ENGINEER PRIOR TO PLACEMENT. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, THE EROSION CONTROL MEASURES SHALL BE PROVIDED BY THE CONTRACTOR.

TREE TRIMMING ALL BRANCHES THAT ARE LESS THAN 12 FEET ABOVE THE SURFACE OF THE TRAIL AND WITHIN 4 FEET OF THE EDGE OF THE TRAIL, SHALL BE REMOVED BY A CERTIFIED ARBORIST PROVIDED BY THE CONTRACTOR. THIS WORK WILL BE PAID FOR AS PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE.

ACCESS TO ABUTTING PROPERTY THE CONTRACTOR SHALL MAINTAIN ACCESS TO ABUTTING PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT, EXCEPT FOR PERIODS OF SHORT DURATION AS APPROVED BY THE ENGINEER.

SAW CUTTING THE LIMITS OF REMOVAL OF ALL CONCRETE OR BITUMINOUS PAVEMENTS, CURBING OR SIDEWALK ADJACENT TO EXISTING LIKE PAVEMENTS, CURBING OR SIDEWALKS SHALL BE SAWCUT IN ACCORDANCE WITH SECTION 440 OF THE "STANDARD SPECIFICATIONS" AND AT THE DIRECTION OF THE ENGINEER. THE SAW CUTTING OF BITUMINOUS PAVEMENT, DRIVEWAYS, CURBING OR SIDEWALK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND WILL NOT BE PAID FOR AS SEPARATE ITEMS.

SIDEWALKS SIDEWALK RAMPS FOR THE HANDICAPPED SHALL BE PROVIDED AT ALL ROADWAY AND CURBED DRIVEWAY INTERSECTIONS AS SHOWN IN THE STANDARDS. ADJACENT PAVEMENT OR SIDEWALK DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.

RESTORATION GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH 150 mm TOPSOIL AND SEED OR SOD AS SPECIFIED. PAYMENT SHALL BE ACCORDING TO THE ITEMS USED. USE BLANKET IN SEEDED AREAS LOCATED WITHIN FLOW LINES, ALONG THE SHORELINE OF THE CREEK, AND ON SLOPES 1:3 OR GREATER.

CONSTRUCTION LIMITS CONTRACTOR SHALL CONFINE HIS OPERATIONS AND EQUIPMENT TO THE IMMEDIATE VICINITY OF THE TRAIL AND APPURTENANT CONSTRUCTION SO AS TO AVOID IMPACT TO THE WETLANDS AND/OR RIPARIAN AREAS.

SEDIMENTATION AND EROSION CONTROL NOTES

- A. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- B. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE.
- C. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE. PERMANENT STABILIZATION SHALL BE DONE WITHIN 14 DAYS AFTER COMPLETION OF FINAL GRADING OF THE SOIL.
- D. ALL STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED, OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- E. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
- F. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTION AND REPAIR DURING CONSTRUCTION.
- G. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
- H. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL PRIOR TO THE START OF ANY EARTHWORK.
- I. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, EROSION CONTROL MEASURES SHALL BE PROVIDED.
- J. EROSION CONTROL MEASURES SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF THE IEPA
- K. EROSION CONTROL BARRIERS, SHOWN ON PLANS, SHALL CONSIST OF DOUBLE ROWS OF EROSION CONTROL BARRIERS.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT	COOK	29	2
STA. TO STA.			
IDOT PROJECT NO.			
CENTENNIAL TRAIL			

CONTRACT NO. 63052

HIGHWAY STANDARDS

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATERNS
- 280001-04 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-05 CURB RAMPS FOR SIDEWALK
- 606001-03 CONCRETE CURB TYPE B & COMBINATION CONCRETE CURB AND GUTTER
- 630001-07 STEEL PLATE BEAM GUARDRAIL
- 630301-04 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 664001-01 CHAIN LINK FENCE
- 701606-05 URBAN LANE CLOSURE MULTILANE 2W WITH MOUNTABLE MEDIAN
- 701701-05 URBAN LANE CLOSURE MULTILANE INTERSECTION
- 701901 TRAFFIC CONTROL DEVICES
- 720001 SIGN PANEL MOUNTING DETAILS
- 720006-01 SIGN PANEL ERECTION DETAILS
- 720011 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 729001 APPLICATION OF TYPE A AND B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-01 TYPICAL PAVEMENT MARKINGS

DISTRICT ONE DETAILS

- BD-24 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
- BD-34 DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL.
- BD-51 BENCHING DETAIL FOR EMBANKMENT WIDENING
- BM-20 PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE
- BM-21 REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL
- TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS

CONSTRUCTION ACCESS LOCATIONS

THE CONSTRUCTION ACCESS LOCATIONS SHALL AVOID WETLAND, WETLAND BUFFER AND RIPARIAN AREAS.

REVISIONS		
NO.	NAME	DATE

URS 100 S. WACKER DR., SUITE 500 TEL: (312)-939-1000
CHICAGO, IL 60606 FAX: (312)-939-4198

FOREST PRESERVE DISTRICT OF COOK COUNTY, ILLINOIS
CENTENNIAL TRAIL
GENERAL CONSTRUCTION NOTES
AND HIGHWAY STANDARDS

DATE: 5/1/08 DRAWN BY: VAP
DESIGNED BY: SW CHECKED BY: DDL

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT	COOK	29	3
STA. TO STA.			
IDOT PROJECT NO.			
CENTENNIAL TRAIL			

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CODE NO	PAY ITEM	UNIT	TOTAL QUANTITY Y047
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	109
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	418
M2010500	TREE REMOVAL, HECTARES	HA	0.4
20101200	TREE ROOT PRUNING	EACH	10
M2020010	EARTH EXCAVATION	CU M	100
M2021200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU M	1,763
M2040800	FURNISHED EXCAVATION	CU M	179
M2070420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU M	355
M2101000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ M	5315
* M2113150	TOPSOIL FURNISH AND PLACE, 150 MM	SQ M	4,631
* M2500210	SEEDING, CLASS 2A	HA	0.2
* M2500312	SEEDING, CLASS 4A	HA	0.3
* M2500400	NITROGEN FERTILIZER NUTRIENT	KG	46
* M2500500	PHOSPHORUS FERTILIZER NUTRIENT	KG	46
* M2500600	POTASSIUM FERTILIZER NUTRIENT	KG	46
* M2510630	EROSION CONTROL BLANKET	SQ M	4,631
* M2520200	SUPPLEMENTAL WATERING	UNIT	10
28000300	TEMPORARY DITCH CHECKS	EACH	2
M2800400	PERIMETER EROSION BARRIER	METER	1476
M3511150	AGGREGATE BASE COURSE, TYPE B 150 MM	SQ M	4873
M4060100	BITUMINOUS MATERIALS (PRIME COAT)	LITER	6645
M4063310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	M TON	530
M4205200	PROTECTIVE COAT	SQ M	12
M4240150	PORTLAND CEMENT CONCRETE SIDEWALK 150MM	SQ M	12.0
M4248000	DETECTABLE WARNINGS	SQ M	3.6
M4402000	PAVEMENT REMOVAL	SQ M	156
M4402045	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	METER	3
M4820550	HOT-MIX ASPHALT SHOULDERS, 150MM	SQ M	745
60253000	CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1
M6320030	GUARDRAIL REMOVAL	METER	7.6
* M6330610	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARDRAIL	METER	320.0
M6640100	CHAIN LINK FENCE, 1.2 METER	METER	300
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6
67100100	MOBILIZATION	L SUM	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
M7200100	SIGN PANEL - TYPE 1	SQ M	1.9
M7290100	METAL POST - TYPE A	METER	12.0
* M7800115	THERMOPLASTIC PAVEMENT MARKING - LINE 150MM	METER	25
* M7800125	THERMOPLASTIC PAVEMENT MARKING - LINE 300MM	METER	42
* M7800205	PAINT PAVEMENT MARKING - LINE 100MM	METER	1477
84400405	RELOCATE EXISTING WOOD POLES	EACH	1
* A2000116	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	10
* A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	10
K1004595	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	LSUM	1
XX004652	PIPE GATE	EACH	1
X0321322	DROP GATE	EACH	2
MX032529	SEGMENTAL CONCRETE BLOCK WALL	SQ M	102
XX006670	TRAIL HEAD SIGN, COMPLETE	EACH	1

* INDICATES SPECIALTY ITEMS

CODE NO	PAY ITEM	UNIT	TOTAL QUANTITY Y047
MX030567	RUSTIC RAIL FENCE	METER	63
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
MZ022800	FENCE REMOVAL	METER	300

EARTHWORK SCHEDULE

LOCATION	SUITABLE EXCAVATION (EARTH EXCAVATION)	EARTH EX. ADJUSTED FOR SHRINKAGE (25%)	SUITABLE EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (FURNISHED EXCAVATION)	UNSUITABLE EXCAVATION (REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL)	UNSUITABLE EMBANKMENT	TOPSOIL FURNISH & PLACE 150MM	UNSUITABLE BALANCE WASTE (+) OR SHORTAGE (-)
	CU M	CU M	CU M	CU M	CU M	CU M	CU M	CU M
CENTENNIAL TRAIL	0	0	179	-179	1763	0	977	+786

REVISIONS		
NO.	NAME	DATE

URS 100 S. WACKER DR., SUITE 500... TEL. (312)-939-1000
CHICAGO, IL 60606 FAX (312)-939-4198

FOREST PRESERVE DISTRICT OF COOK COUNTY, ILLINOIS

CENTENNIAL TRAIL

SUMMARY OF QUANTITIES

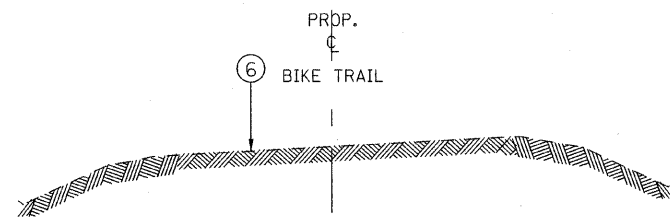
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DRAWN BY: VAP

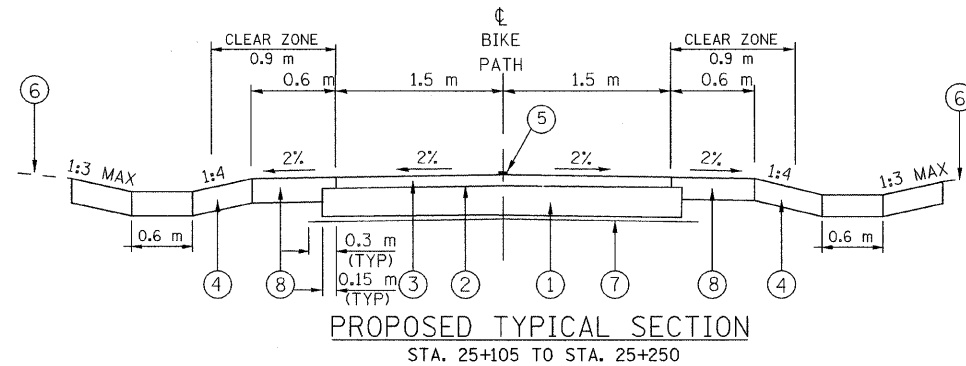
DESIGNED BY: SW

CHECKED BY: DDL

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT	COOK	29	4
STA. TO STA.			
PROJECT NO. TE-D001 (610)			
CENTENNIAL TRAIL			
CONTRACT NO. 63052			



EXISTING TYPICAL SECTION
STA. 25+105 TO STA. 25+540



PROPOSED TYPICAL SECTION
STA. 25+105 TO STA. 25+250

LEGEND:

- ① AGGREGATE BASE COURSE, TYPE B, 150 mm
- ② BITUMINOUS MATERIALS, PRIME COAT
- ③ HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 50 mm
- ④ TOP SOIL FURNISH AND PLACE, 150 mm AND SEEDING CLASS 4A
- ⑤ PAINT PAVEMENT MARKING, 100 mm YELLOW
- ⑥ EXISTING GROUND
- ⑦ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑧ TOP SOIL FURNISH AND PLACE, 150 mm AND SEEDING, CLASS 2A
- ⑨ HOT MIX ASPHALT SHOULDER, 150 mm
- ⑩ RELOCATED GUARDRAIL

NOTE 1:

WHERE UNSUITABLE MATERIAL UNDERLIES THE BIKE TRAIL, SHOULDERS AND/OR EMBANKMENT, AS DETERMINED BY THE ENGINEER, THE SUBGRADE TREATMENT WILL CONSIST OF EXCAVATION OF UNSUITABLE MATERIAL TO A DEPTH 300 mm BELOW AGGREGATE BASE COURSE AND PLACEMENT OF 300 mm OF POROUS GRANULAR EMBANKMENT SUBGRADE AND A GEOTECHNICAL FABRIC FOR GROUND STABILIZATION.

NOTE 2:

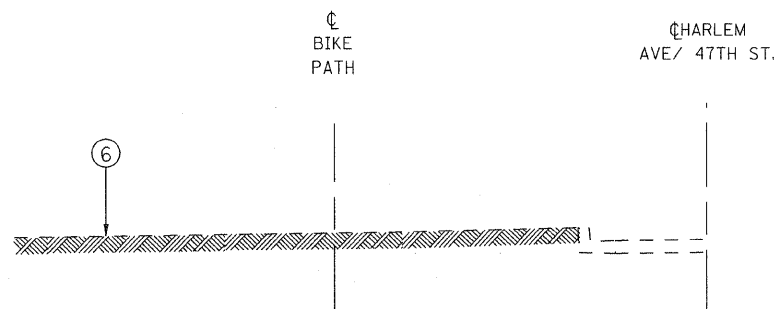
WHERE CROSS DRAINAGE ACROSS THE PATH IS SHOWN ON THE CROSS SECTIONS, THE CONTRACTOR SHALL PROVIDE A CONSTANT CROSS SLOPE IN THE DIRECTION OF THE GROUND SLOPE.

NOTE 3:

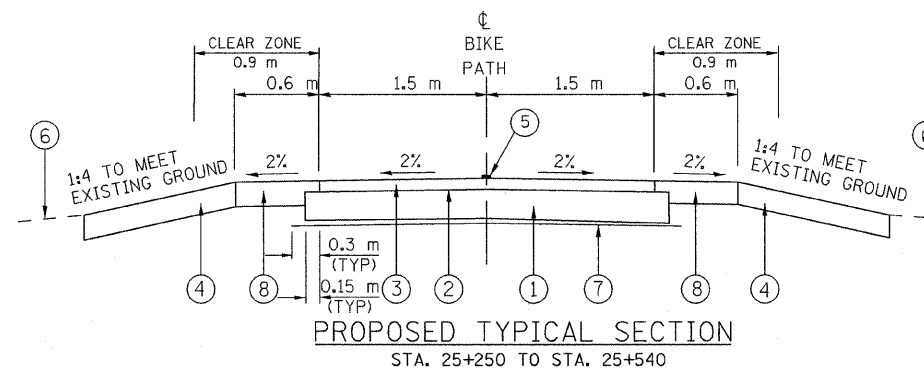
ADDITIONAL FILL MATERIAL TO BE PLACED ABOVE FABRIC IN CUT SECTIONS SHALL NOT BE MEASURED FOR PAYMENT. MATERIAL SHALL BE SUITABLE EMBANKMENT MATERIAL.

NOTE 4:

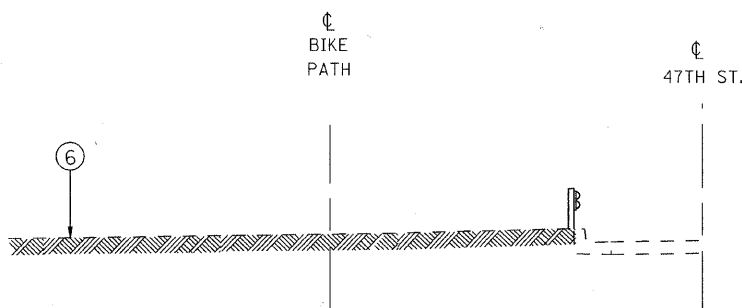
AT ALL INTERSECTIONS OF BIKE PATH AND STREETS/DRIVEWAYS DEPRESS THE CURB (IF APPLICABLE) AND KEEP EXISTING PAVEMENT ELEVATIONS.



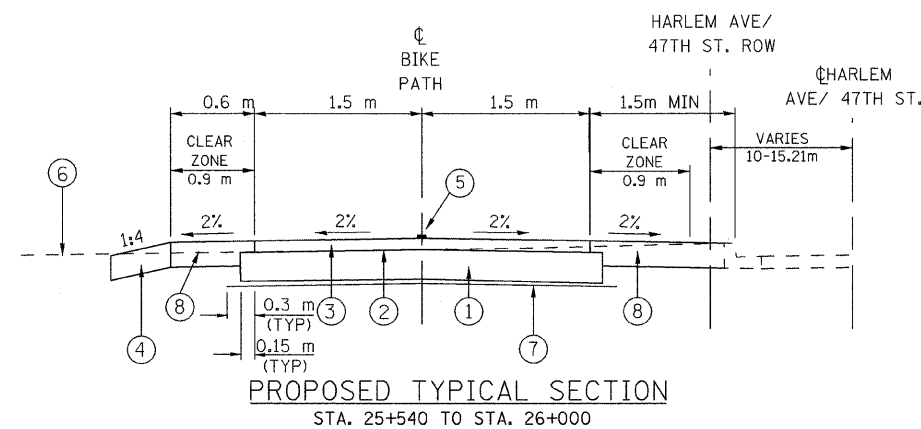
EXISTING TYPICAL SECTION
STA. 25+540 TO STA. 26+150



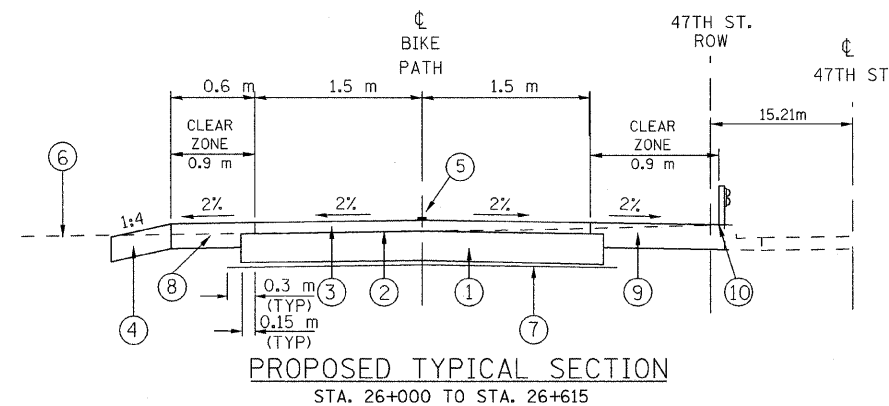
PROPOSED TYPICAL SECTION
STA. 25+250 TO STA. 25+540



EXISTING TYPICAL SECTION
STA. 26+150 TO STA. 26+615



PROPOSED TYPICAL SECTION
STA. 25+540 TO STA. 26+000



PROPOSED TYPICAL SECTION
STA. 26+000 TO STA. 26+615

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

ITEM	AC TYPE	AIR VOIDS
TRAIL SURFACE, HOT-MIX ASPHALT SURFACE COURSE, MIX. C, N50 (IL 9.5MM) 50MM	PG 64-22	4% @ 50 GYR
SHOULDER, HOT-MIX ASPHALT SHOULDER 150MM	PG64-22 *	2% @ 30 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURES QUANTITIES IS 112 LBS/SQ YD/IN AND/OR THE METRIC EQUIVELANT 2.39 KG/SM/MM.

• WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

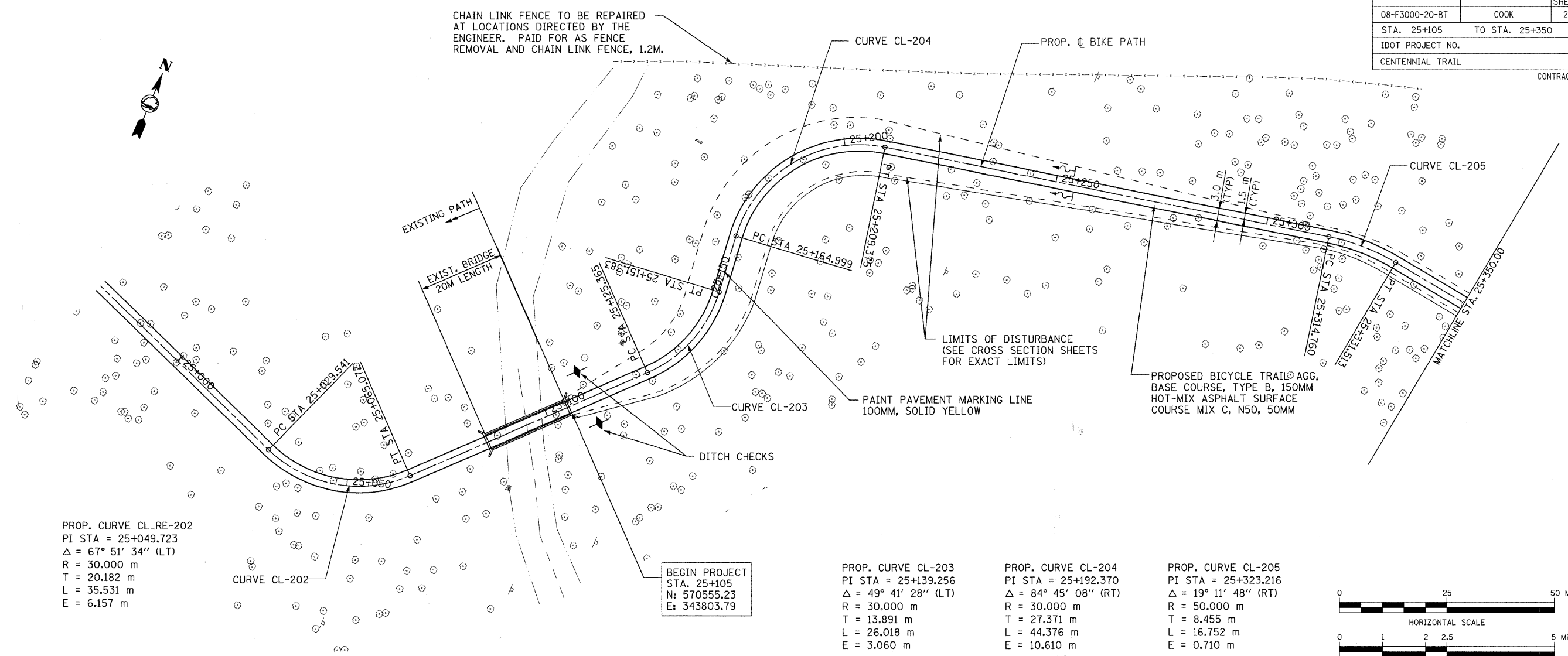
REVISIONS		
NO.	NAME	DATE

URS 100 S. WACKER DR., SUITE 500 TEL (312)-939-1000
CHICAGO, IL 60606 FAX (312)-939-4198

FOREST PRESERVE DISTRICT OF COOK COUNTY
CENTENNIAL TRAIL
EXISTING AND PROPOSED
TYPICAL SECTIONS

DATE: 4/4/08 DRAWN BY: VAP
DESIGNED BY: CHECKED BY: DDL

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT	COOK	29	5
STA. 25+105 TO STA. 25+350		IDOT PROJECT NO.	
CENTENNIAL TRAIL		CONTRACT NO. 63052	



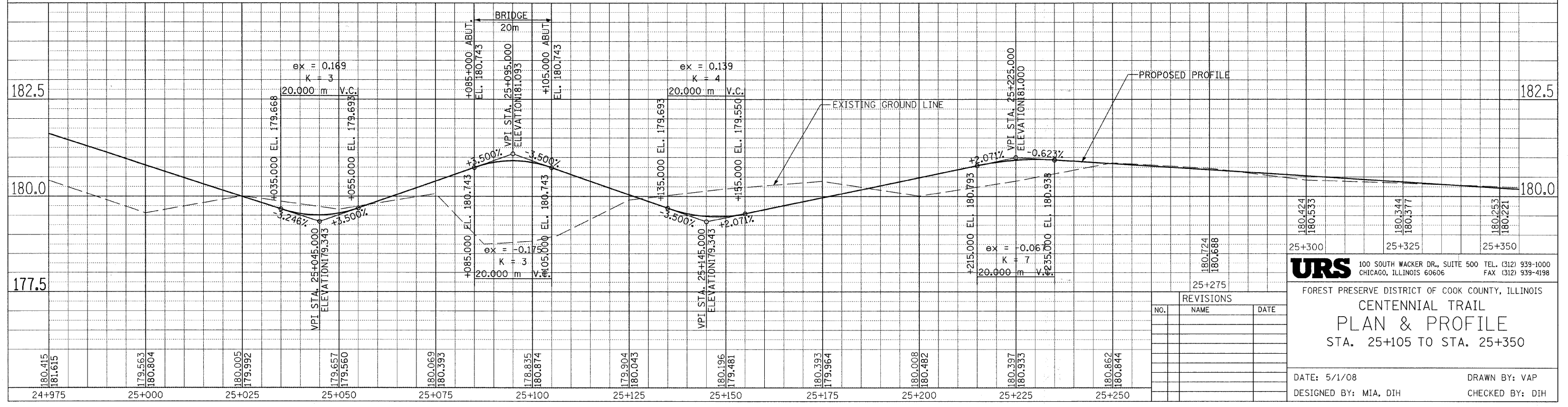
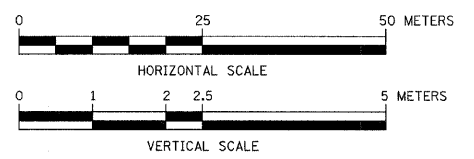
PROP. CURVE CL_RE-202
 PI STA = 25+049.723
 $\Delta = 67^\circ 51' 34''$ (LT)
 R = 30.000 m
 T = 20.182 m
 L = 35.531 m
 E = 6.157 m

BEGIN PROJECT
 STA. 25+105
 N: 570555.23
 E: 343803.79

PROP. CURVE CL-203
 PI STA = 25+139.256
 $\Delta = 49^\circ 41' 28''$ (LT)
 R = 30.000 m
 T = 13.891 m
 L = 26.018 m
 E = 3.060 m

PROP. CURVE CL-204
 PI STA = 25+192.370
 $\Delta = 84^\circ 45' 08''$ (RT)
 R = 30.000 m
 T = 27.371 m
 L = 44.376 m
 E = 10.610 m

PROP. CURVE CL-205
 PI STA = 25+323.216
 $\Delta = 19^\circ 11' 48''$ (RT)
 R = 50.000 m
 T = 8.455 m
 L = 16.752 m
 E = 0.710 m



REVISIONS		
NO.	NAME	DATE

URS 100 SOUTH WACKER DR., SUITE 500 TEL. (312) 939-1000
 CHICAGO, ILLINOIS 60606 FAX (312) 939-4198

FOREST PRESERVE DISTRICT OF COOK COUNTY, ILLINOIS

**CENTENNIAL TRAIL
 PLAN & PROFILE**
 STA. 25+105 TO STA. 25+350

DATE: 5/1/08 DRAWN BY: VAP
 DESIGNED BY: MIA, DIH CHECKED BY: DIH

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT	COOK	29	6
STA. 25+350 TO STA. 25+600			
IDOT PROJECT NO.			
CENTENNIAL TRAIL			
CONTRACT NO. 63052			



PROP. CURVE CL-206
 PI STA = 25+421.562
 $\Delta = 7^\circ 37' 19''$ (LT)
 R = 30,000 m
 T = 1.998 m
 L = 3.991 m
 E = 0.066 m

PROP. CURVE CL-207
 PI STA = 25+484.097
 $\Delta = 76^\circ 6' 10''$ (LT)
 R = 31,500 m
 T = 24,665 m
 L = 41,852 m
 E = 8,508 m

PROP. CURVE CL-208
 PI STA = 25+508.954
 $\Delta = 21^\circ 53' 56''$ (RT)
 R = 30,000 m
 T = 5.696 m
 L = 11,259 m
 E = 1,352 m

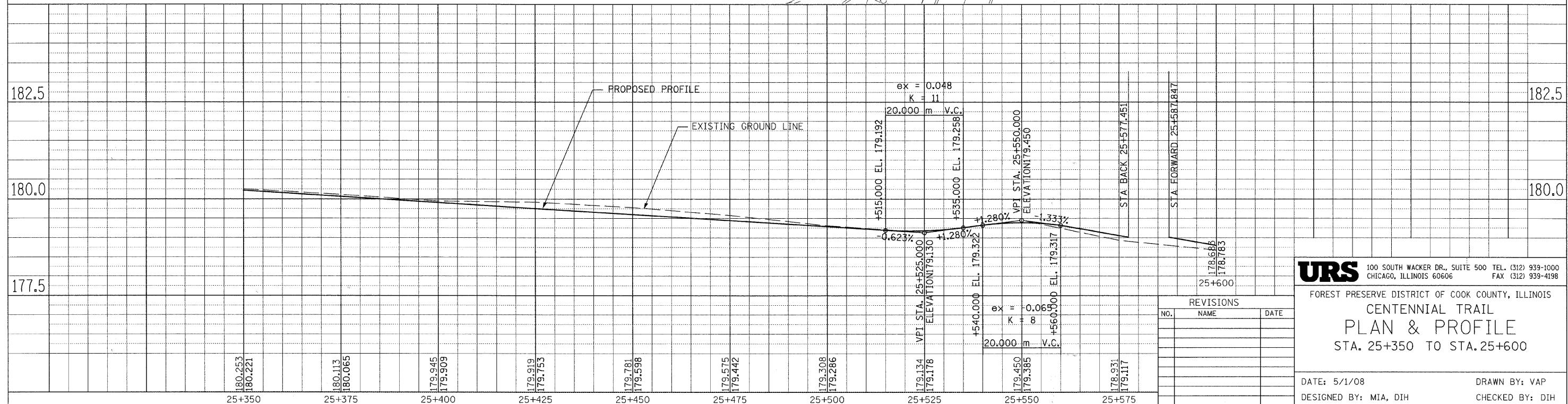
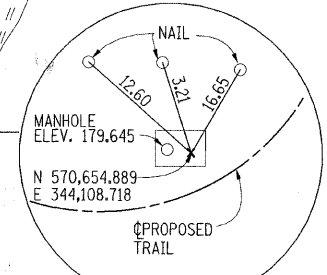
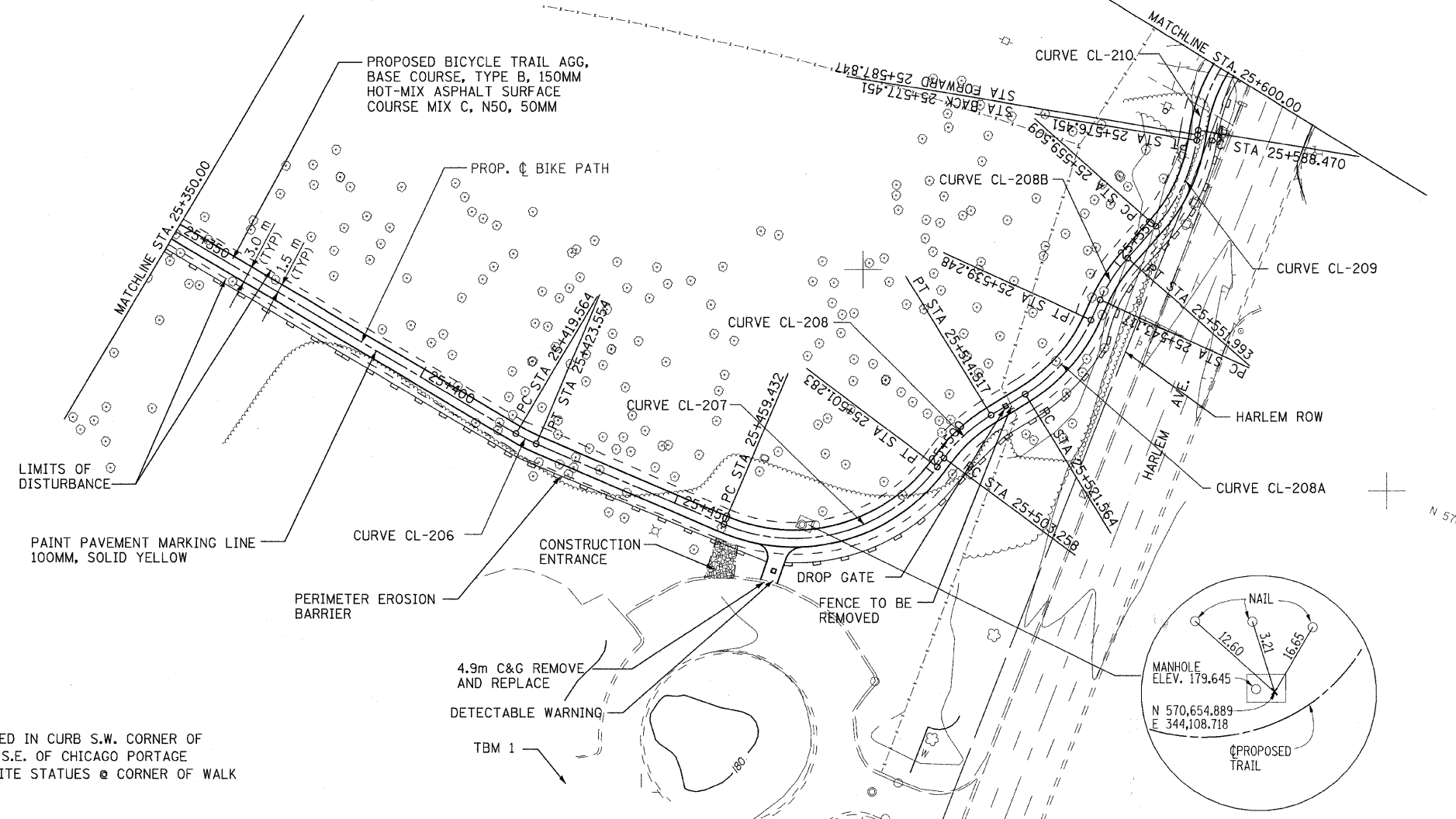
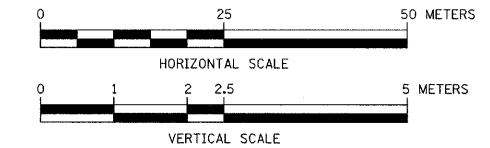
PROP. CURVE CL-208A
 PI STA = 25+530.671
 $\Delta = 33^\circ 46' 29''$ (LT)
 R = 30,000 m
 T = 9.107 m
 L = 17,684 m
 E = 1,352 m

PROP. CURVE CL-208B
 PI STA = 25+547.588
 $\Delta = 16^\circ 54' 14''$ (RT)
 R = 30,000 m
 T = 4.471 m
 L = 8,876 m
 E = 0,331 m

PROP. CURVE CL-209
 PI STA = 25+559.509
 $\Delta = 32^\circ 21' 31''$ (LT)
 R = 30,000 m
 T = 8,704 m
 L = 16,943 m
 E = 1,237 m

PROP. CURVE CL-210
 PI STA = 25+595.607
 $\Delta = 26^\circ 45' 47''$ (RT)
 R = 30,000 m
 T = 7,137 m
 L = 14,013 m
 E = 0,837 m

TBM 1 "□" CHISELED IN CURB S.W. CORNER OF PARKING LOT S.E. OF CHICAGO PORTAGE HISTORICAL SITE STATUES @ CORNER OF WALK ELEV= 179,981



URS 100 SOUTH WACKER DR., SUITE 500 TEL. (312) 939-1000
 CHICAGO, ILLINOIS 60606 FAX (312) 939-4198

FOREST PRESERVE DISTRICT OF COOK COUNTY, ILLINOIS

**CENTENNIAL TRAIL
 PLAN & PROFILE
 STA. 25+350 TO STA. 25+600**

DATE: 5/1/08 DRAWN BY: VAP
 DESIGNED BY: MIA, DIH CHECKED BY: DIH

REVISIONS		
NO.	NAME	DATE

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT	COOK	29	7
STA. 25+600 TO STA. 25+900			
IDOT PROJECT NO.			
CENTENNIAL TRAIL			
CONTRACT NO. 63052			

PROP. CURVE CL-211
 PI STA = 25+607.858
 $\Delta = 15^\circ 17' 12''$ (LT)
 R = 30.000 m
 T = 4.026 m
 L = 8.004 m
 E = 0.269 m

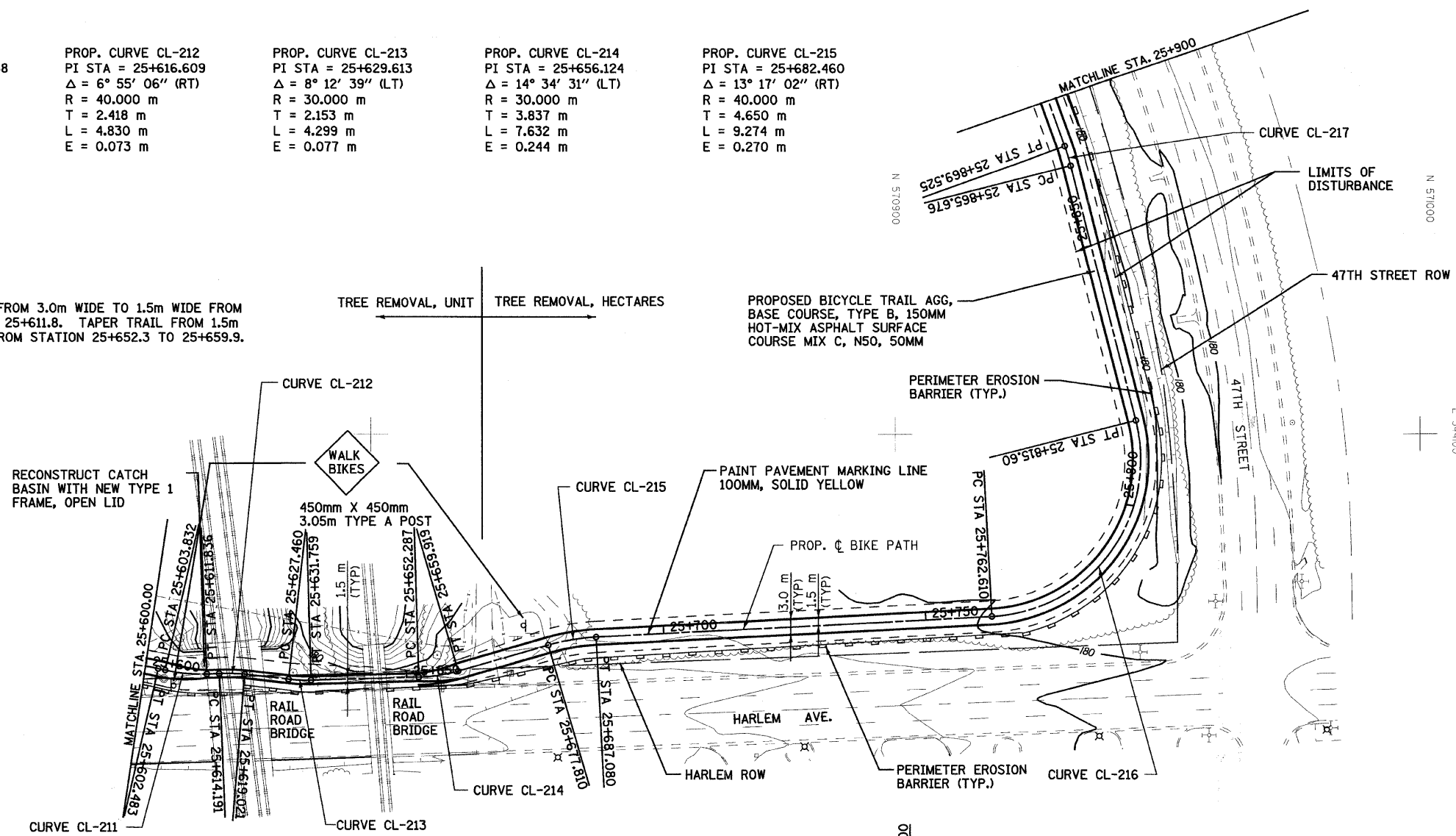
PROP. CURVE CL-212
 PI STA = 25+616.609
 $\Delta = 6^\circ 55' 06''$ (RT)
 R = 40.000 m
 T = 2.418 m
 L = 4.830 m
 E = 0.073 m

PROP. CURVE CL-213
 PI STA = 25+629.613
 $\Delta = 8^\circ 12' 39''$ (LT)
 R = 30.000 m
 T = 2.153 m
 L = 4.299 m
 E = 0.077 m

PROP. CURVE CL-214
 PI STA = 25+656.124
 $\Delta = 14^\circ 34' 31''$ (LT)
 R = 30.000 m
 T = 3.837 m
 L = 7.632 m
 E = 0.244 m

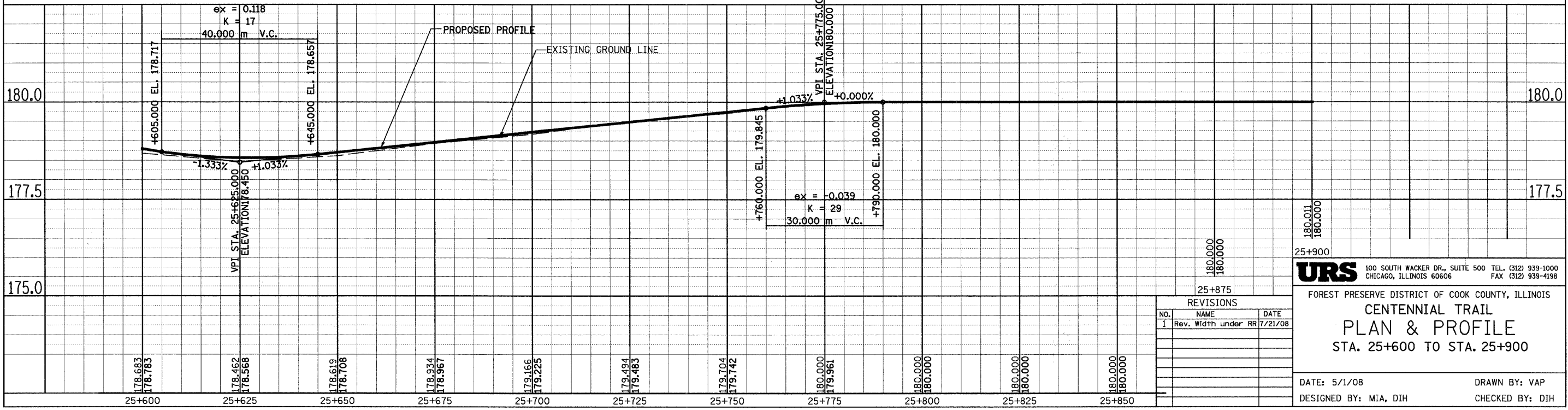
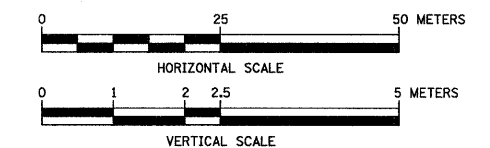
PROP. CURVE CL-215
 PI STA = 25+682.460
 $\Delta = 13^\circ 17' 02''$ (RT)
 R = 40.000 m
 T = 4.650 m
 L = 9.274 m
 E = 0.270 m

NOTE: TAPER TRAIL FROM 3.0m WIDE TO 1.5m WIDE FROM STATION 25+603.8 TO 25+611.8. TAPER TRAIL FROM 1.5m WIDE TO 3.0m WIDE FROM STATION 25+652.3 TO 25+659.9.



PROP. CURVE CL-216
 PI STA = 25+799.170
 $\Delta = 101^\circ 12' 14''$ (LT)
 R = 30.000 m
 T = 36.560 m
 L = 52.990 m
 E = 17.315 m

PROP. CURVE CL-RE-217
 PI STA = 25+867.602
 $\Delta = 5^\circ 30' 46''$ (LT)
 R = 40.0 m
 T = 1.926 m
 L = 3.849 m
 E = 0.046 m



REVISIONS		
NO.	NAME	DATE
1	Rev. Width under RR	7/21/08

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 CHICAGO, ILLINOIS 60606 FAX (312) 939-4198

FOREST PRESERVE DISTRICT OF COOK COUNTY, ILLINOIS
CENTENNIAL TRAIL
PLAN & PROFILE
 STA. 25+600 TO STA. 25+900

DATE: 5/1/08 DRAWN BY: VAP
 DESIGNED BY: MIA, DIH CHECKED BY: DIH

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT	COOK	29	8
STA. 25+900 TO STA. 26+250			
IDOT PROJECT NO.			
CENTENNIAL TRAIL			

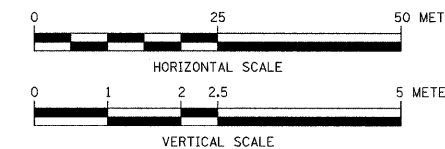
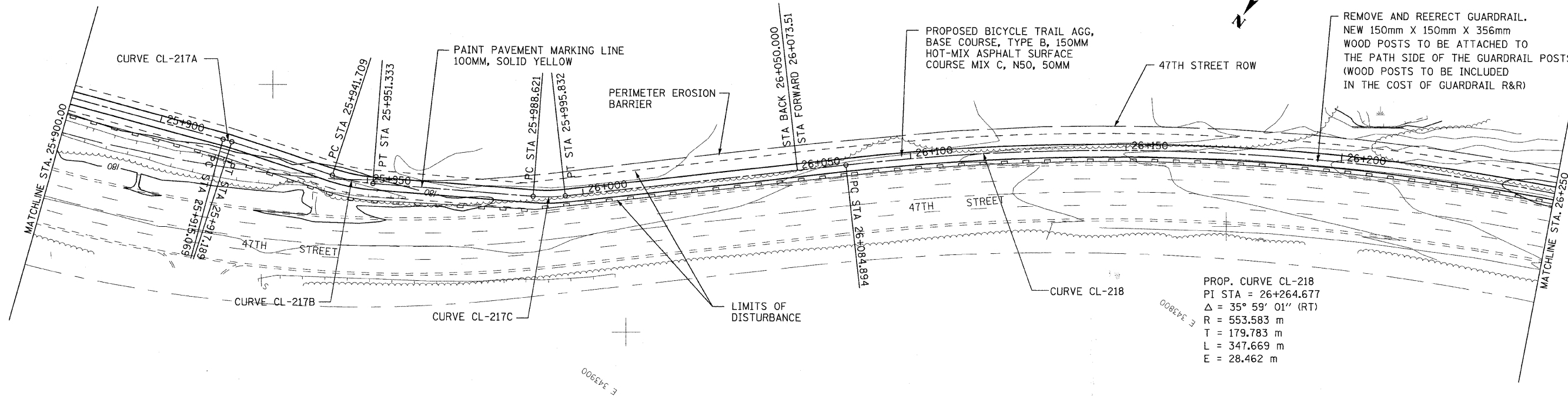
CONTRACT NO. 63052

PROP. CURVE CL-217A
 PI STA = 25+916.130
 $\Delta = 3^\circ 2' 20''$ (RT)
 R = 40.0 m
 T = 1.061 m
 L = 2.121 m
 E = 0.014 m

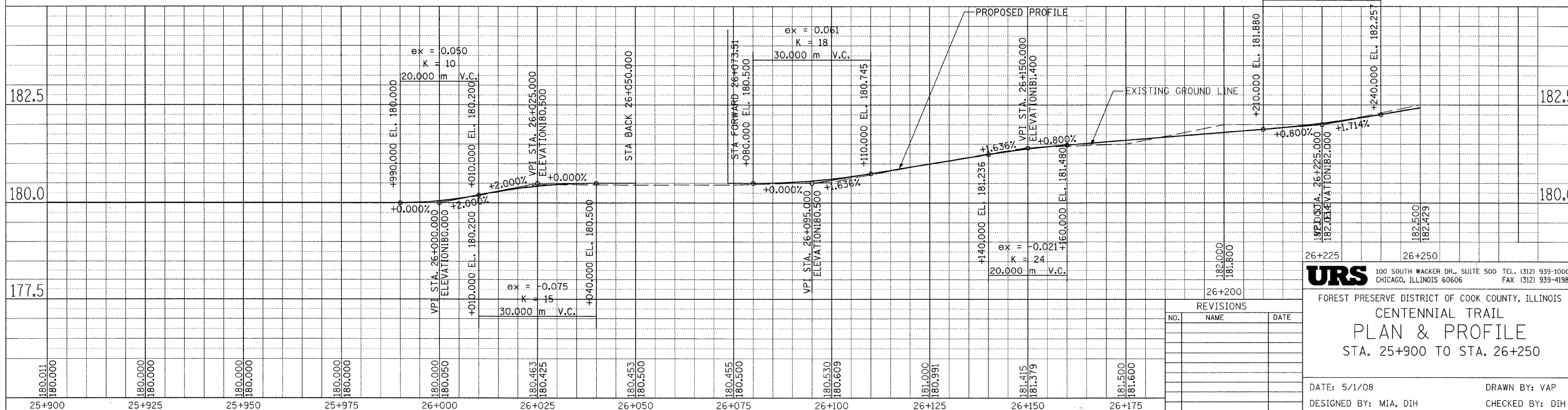
PROP. CURVE CL-217B
 PI STA = 25+946.545
 $\Delta = 13^\circ 47' 13''$ (LT)
 R = 40.0 m
 T = 4.836 m
 L = 9.625 m
 E = 0.291 m

PROP. CURVE CL-217C
 PI STA = 25+992.377
 $\Delta = 10^\circ 43' 55''$ (LT)
 R = 40.0 m
 T = 3.756 m
 L = 7.492 m
 E = 0.176 m

PROP. CURVE CL-218
 PI STA = 26+264.677
 $\Delta = 35^\circ 59' 01''$ (RT)
 R = 553.583 m
 T = 179.783 m
 L = 347.669 m
 E = 28.462 m



ex = 0.034
 K = 33
 30,000 m V.C.



REVISIONS		
NO.	NAME	DATE

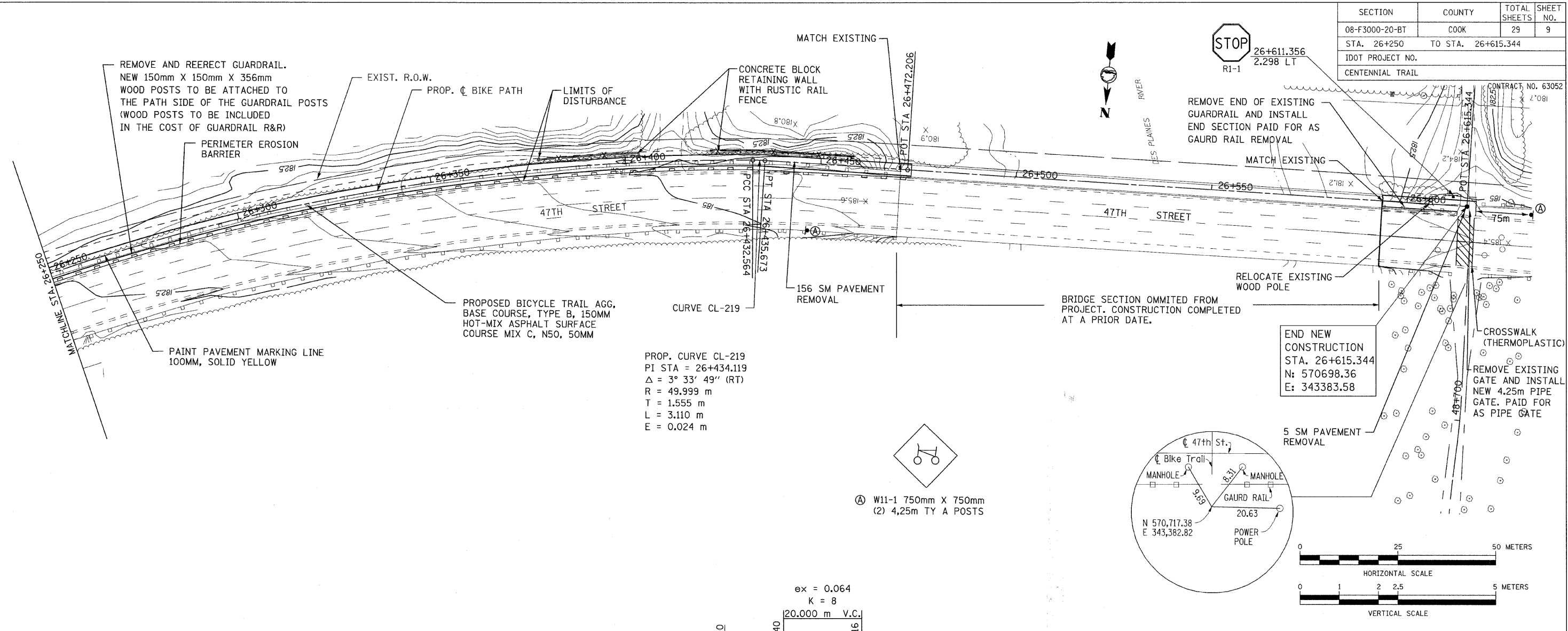
URS 100 SOUTH WACKER DR., SUITE 500 TEL. (312) 939-1000
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FOREST PRESERVE DISTRICT OF COOK COUNTY, ILLINOIS

**CENTENNIAL TRAIL
 PLAN & PROFILE
 STA. 25+900 TO STA. 26+250**

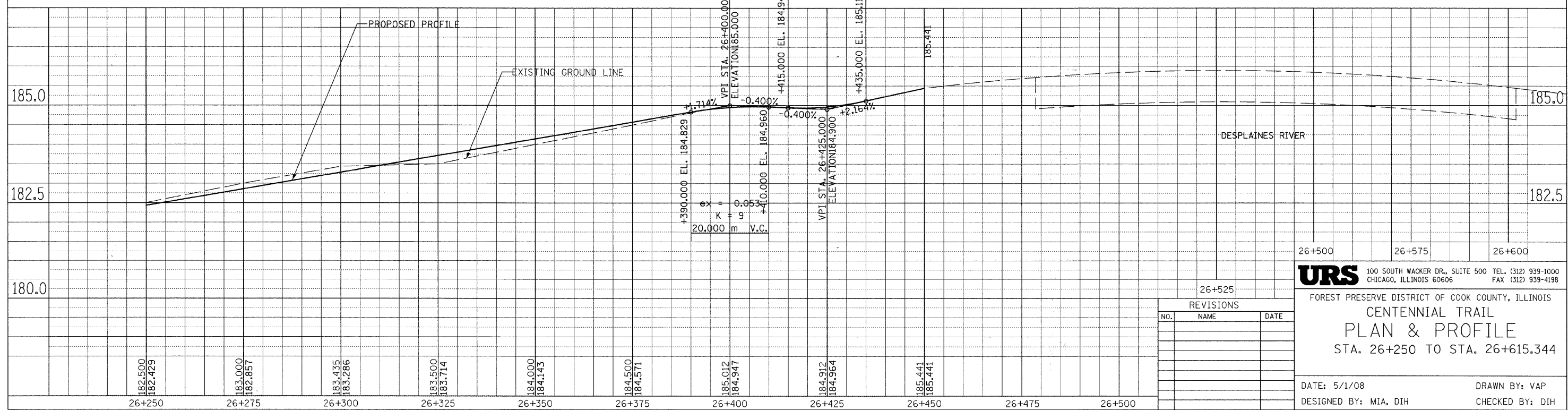
DATE: 5/1/08 DRAWN BY: VAP
 DESIGNED BY: MIA, DIH CHECKED BY: DIH

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT	COOK	29	9
STA. 26+250 TO STA. 26+615.344			
IDOT PROJECT NO.			
CENTENNIAL TRAIL			



PROP. CURVE CL-219
 PI STA = 26+434.119
 $\Delta = 3^\circ 33' 49''$ (RT)
 R = 49.999 m
 T = 1.555 m
 L = 3.110 m
 E = 0.024 m

Ⓐ W11-1 750mm X 750mm
 (2) 4,25m TY A POSTS



26+525 REVISIONS		
NO.	NAME	DATE

URS 100 SOUTH WACKER DR., SUITE 500 TEL. (312) 939-1000
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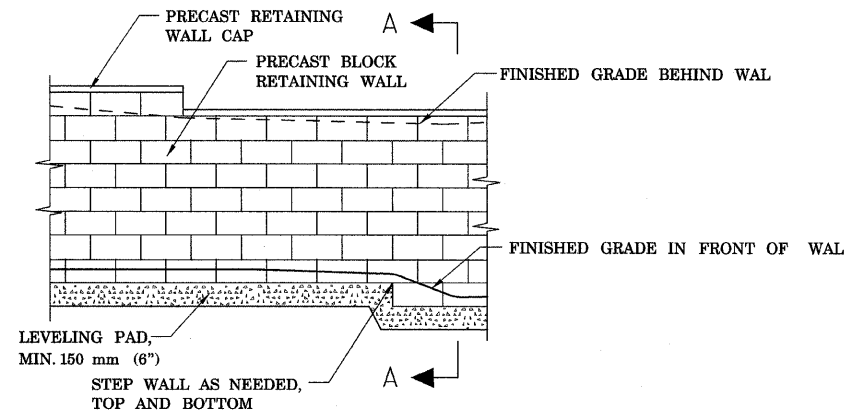
FOREST PRESERVE DISTRICT OF COOK COUNTY, ILLINOIS

CENTENNIAL TRAIL PLAN & PROFILE

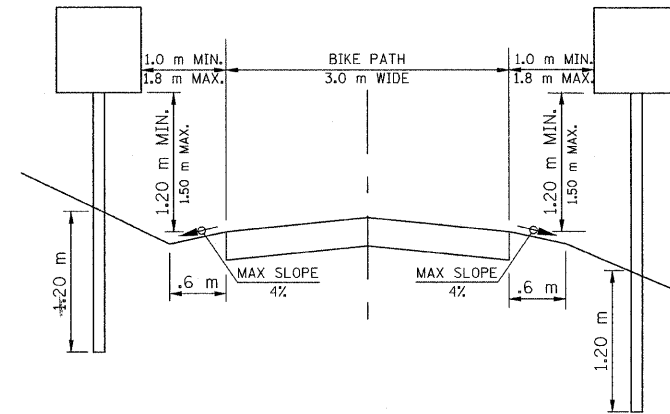
STA. 26+250 TO STA. 26+615.344

DATE: 5/1/08 DRAWN BY: VAP
 DESIGNED BY: MIA, DIH CHECKED BY: DIH

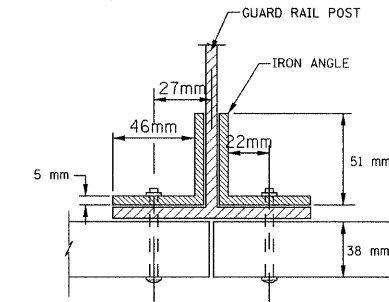
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT	COOK	29	10
STA. TO STA.			
PROJECT NO. TE-D001 (610)			
CENTENNIAL TRAIL			
CONTRACT NO. 63052			



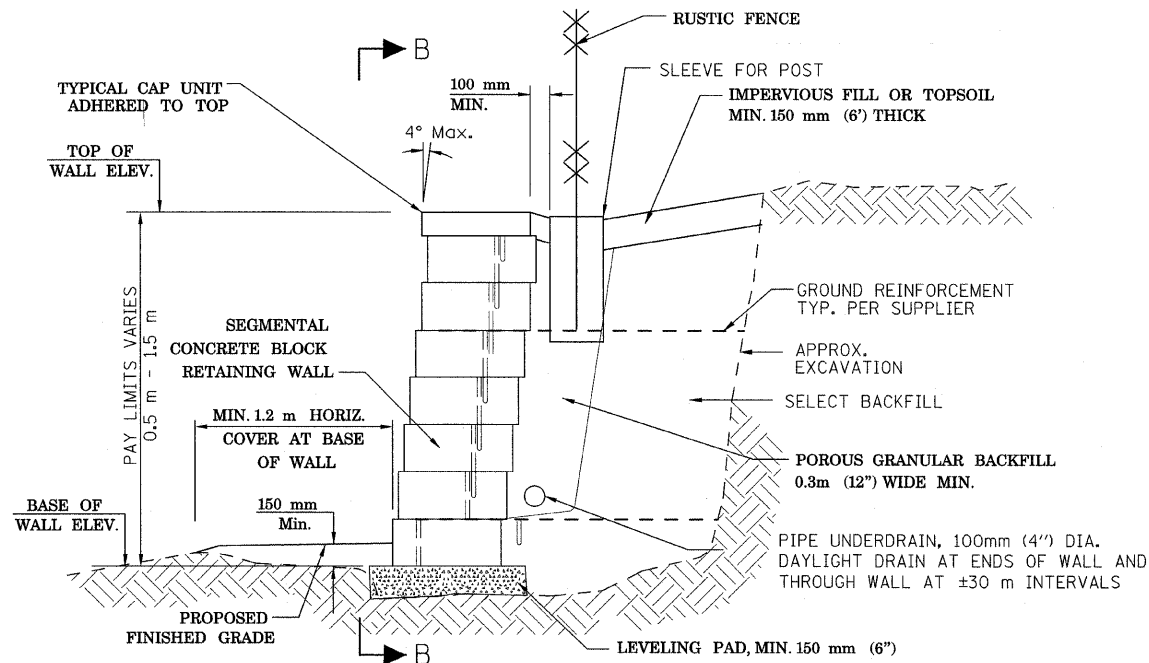
SECTION B-B
ELEVATION



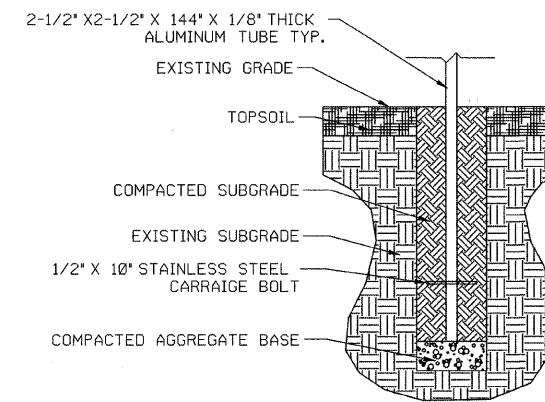
SIGN PLACEMENT DETAIL
N.T.S.



POST BOLT & NUT
PER STD. 630001-04



SECTION A-A
SEGMENTAL CONCRETE BLOCK
RETAINING WALL DETAIL
N.T.S.



SIGN BASE DETAIL
N.T.S.

NOTES

1. THE CONTRACTOR SHALL SUBMIT DESIGN, CONSTRUCTION PLANS WITH MATERIAL INFORMATION & SHOP DRAWINGS FOR CONNECTION DETAILS SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS TO THE ENGINEER FOR APPROVAL BEFORE ORDERING MATERIALS.
2. RETAINING WALL EQUIVALENT FLUID PRESSURE = 50(PCF)
3. REINFORCING BARS SHALL BE GRADE 60
4. GROUT MORTAR, f'm = 2500 psi (MIN.)
5. THE DESIGN OF THE RETAINING WALL SHALL BE IN COMPLIANCE WITH THE GUIDELINES FOR THE DESIGN OF MECHANICALLY STABILIZED EARTH WALLS AS DEVELOPED BY AASHTO-AGC-ARTA JOINT COMMITTEE TASK FORCE 27 GROUND MODIFICATION SYSTEMS.
6. EXCAVATION, LEVELING PAD, BACKFILL, PIPE UNDERDRAIN, GROUND REINFORCEMENT, GROUND RESTORATION, AND SEEDING OF RESTORED GROUND ARE INCLUDED IN COST OF CONCRETE BLOCK RETAINING WALL.
7. INSTALL CHAIN LINK FENCE POST SLEEVE DURING RETAINING WALL CONSTRUCTION TO PREVENT DAMAGE TO GROUND REINFORCEMENT.

SEGMENTAL CONCRETE BLOCK
RETAINING WALLS SITING DATA

	STATION	TOP OF WALL ELEV. METERS	BASE OF WALL ELEV. METERS	WALL HEIGHT METERS
WALL NEAR DES PLAINES RIVER	26+377	184.55	184.0	0.55
	26+404	184.90	184.0	0.90
	26+417	184.90	184.0	0.90
	26+421	184.90	183.0	1.90
	26+458	185.55	184.0	1.55

REVISIONS		
NO.	NAME	DATE

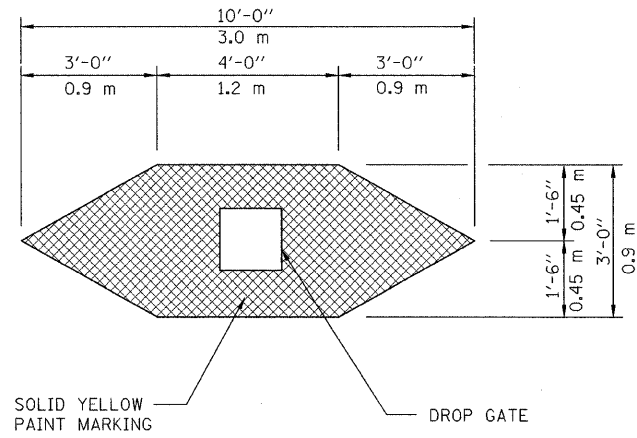
URS 100 S. WACKER DR., SUITE 500 TEL (312)-939-1000
CHICAGO, IL 60606 FAX (312)-939-4198

FOREST PRESERVE DISTRICT OF COOK COUNTY
CENTENNIAL TRAIL

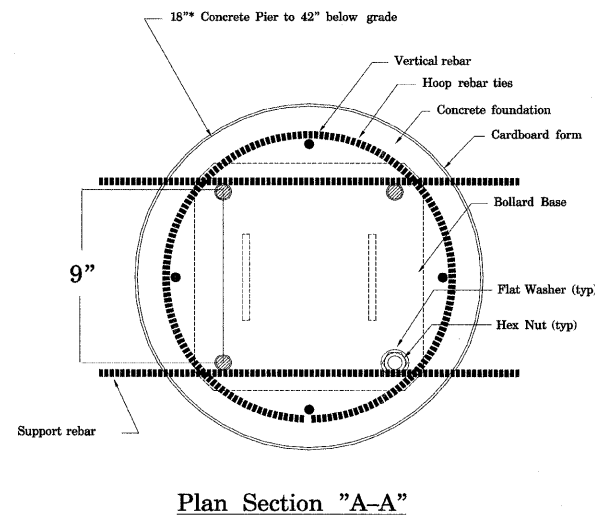
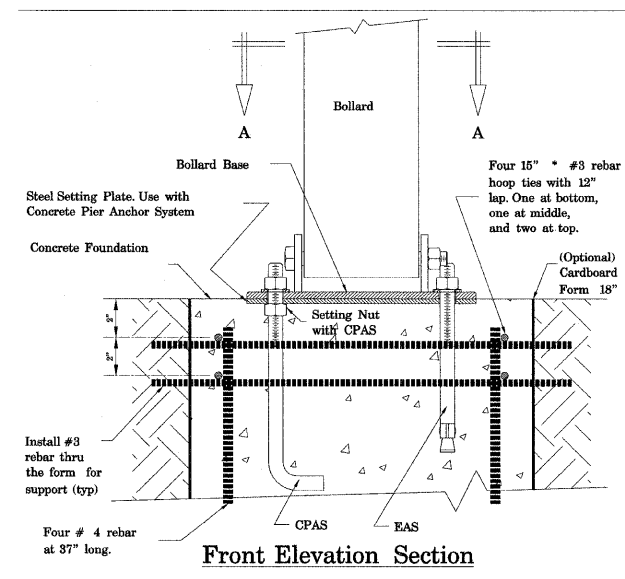
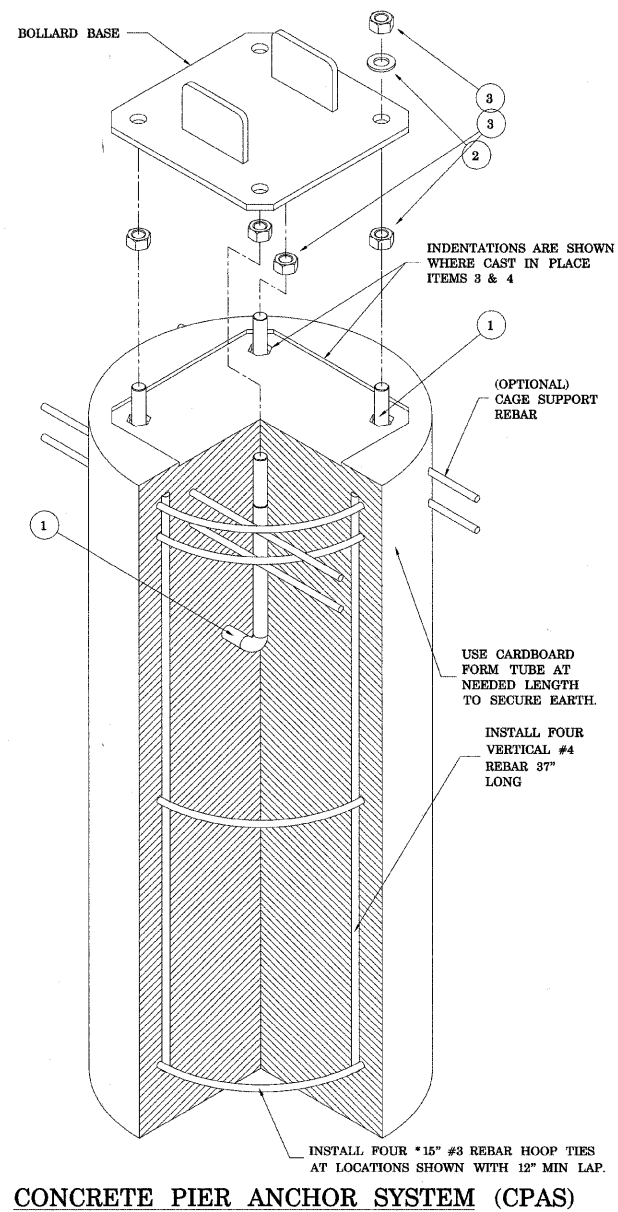
MISCELLANEOUS DETAILS

DATE: 4/4/08 DRAWN BY: VAP
DESIGNED BY: ATB CHECKED BY: DDL

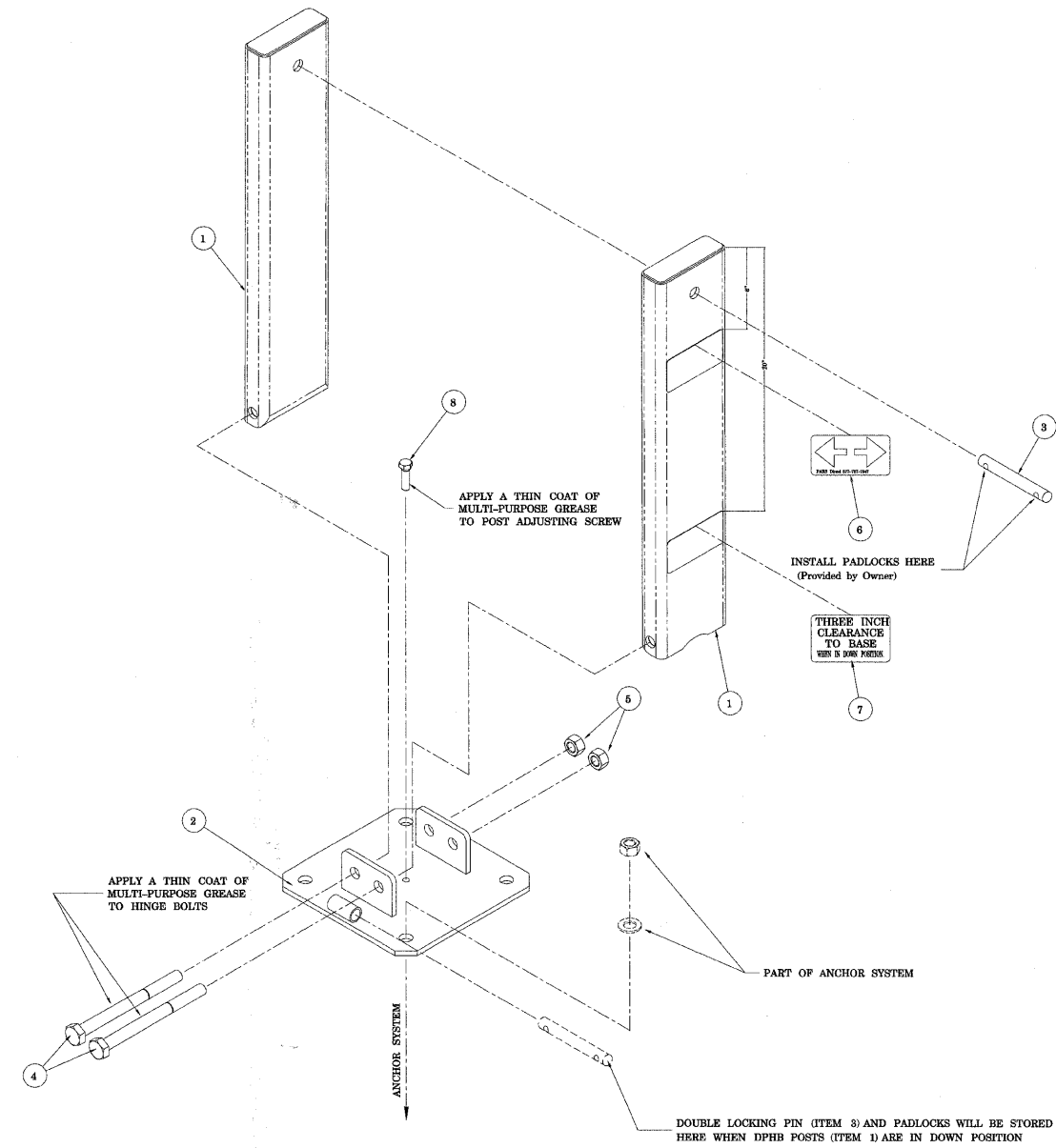
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT	COOK	29	11
STA. TO STA.			
PROJECT NO. TE-D001 (610)			
CENTENNIAL TRAIL			
CONTRACT NO. 63052			



DROP GATE MARKING DETAIL
N.T.S.



DROP GATE, INSTALLATION DETAIL
N.T.S.



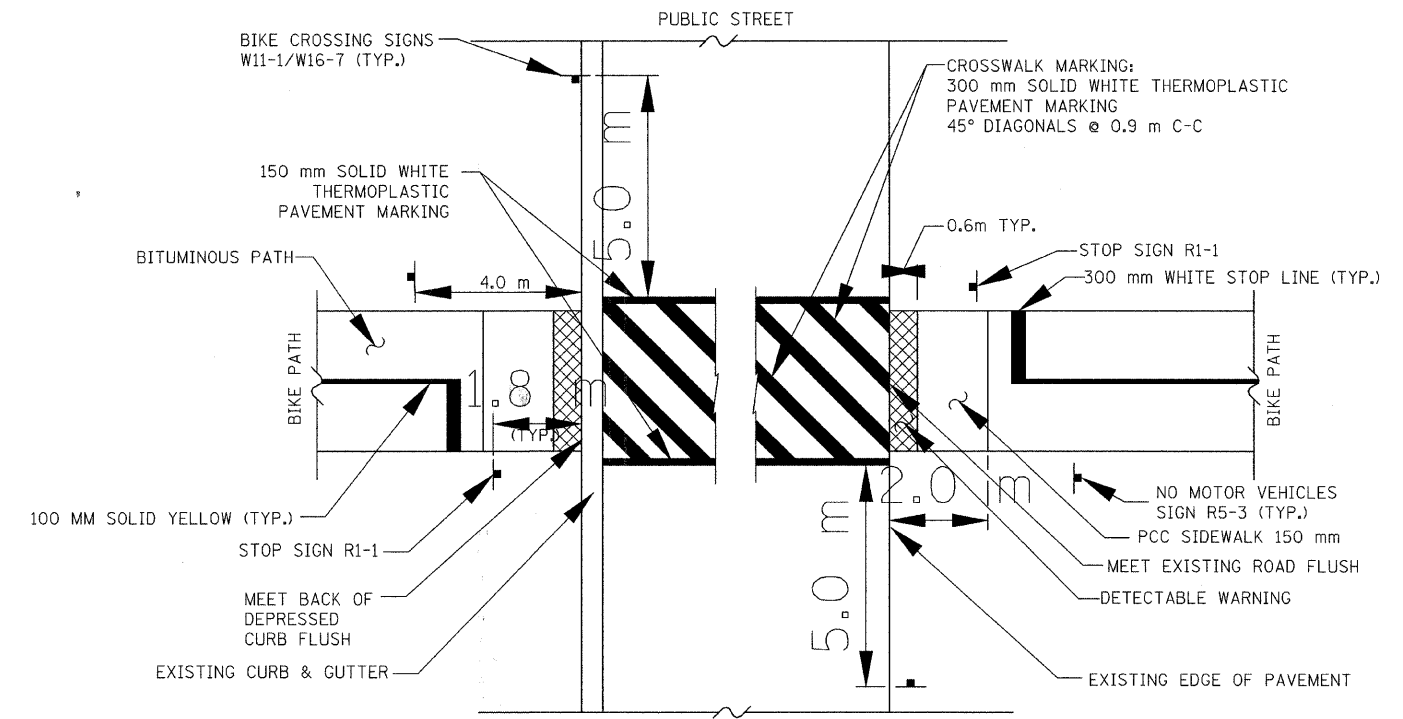
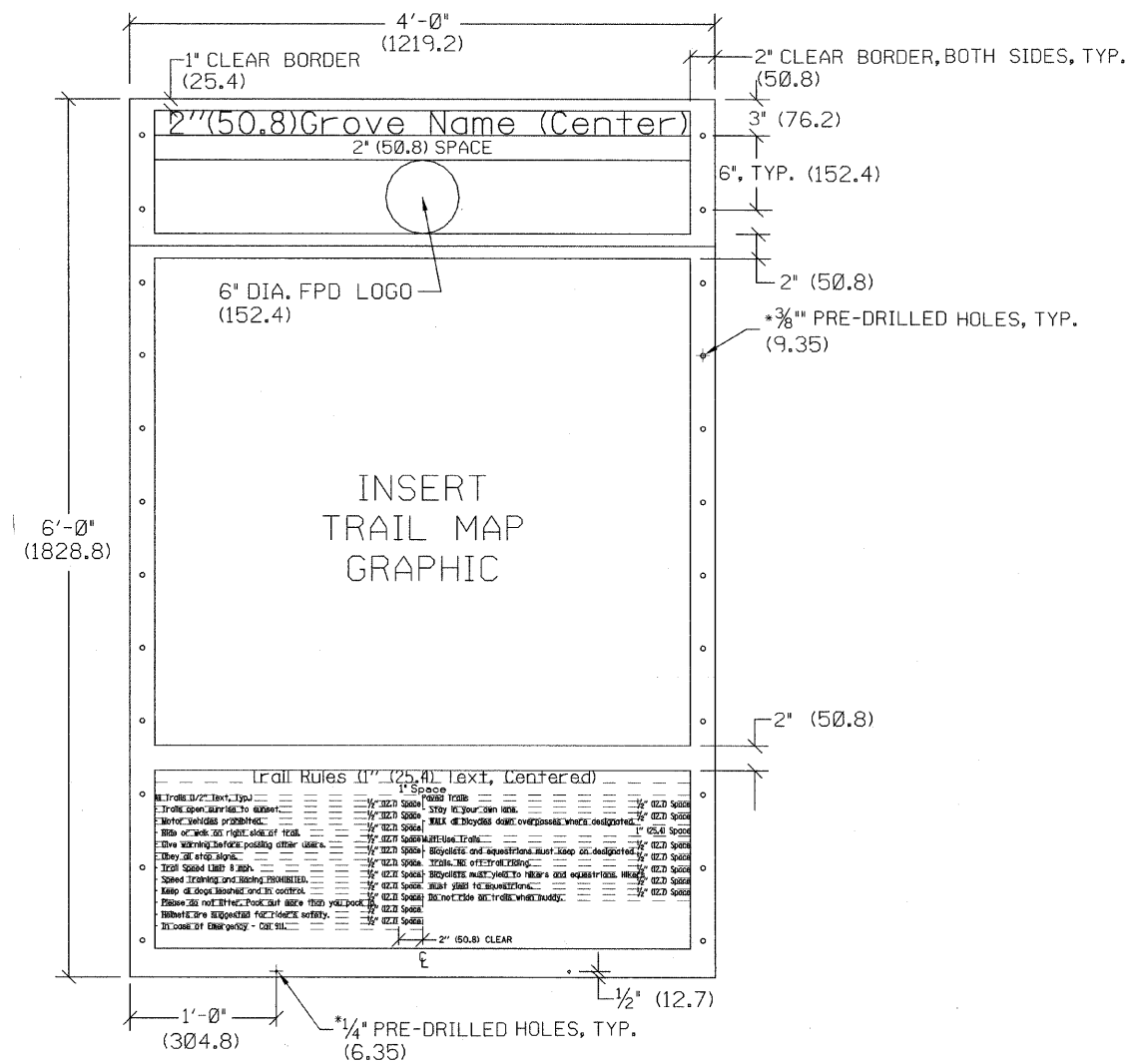
REVISIONS		
NO.	NAME	DATE

URS 100 S. WACKER DR., SUITE 500 TEL (312)-939-1000
CHICAGO, IL 60606 FAX (312)-939-4198

FOREST PRESERVE DISTRICT OF COOK COUNTY
CENTENNIAL TRAIL
SIGN DETAILS

DATE: 4/4/08 DRAWN BY: VAP
DESIGNED BY: ATB CHECKED BY: DDL

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT	COOK	29	12
STA. TO STA.			
PROJECT NO. TE-D001 (610)			
CENTENNIAL TRAIL			
CONTRACT NO. 63052			



STREET INTERSECTION SIGN AND PAVEMENT MARKING DETAIL
N.T.S.

NOTES:

- PANEL SHALL BE .125" ALUMINUM, ENGINEER GRADE, WITH DOUBLESIDED GRAPHIC WITH ANTI-GRAFFITI COATING, BOTH SIDES OF PANEL.
- HEADER SECTION - BACKGROUND COLOR: MAROON TEXT AND LOGO COLOR: CREAM
- MAP SECTION - BACKGROUND COLOR: CREAM
- RULES SECTION - BACKGROUND COLOR: CREAM TEXT COLOR: MAROON. LEFT JUSTIFY TEXT EXCEPT TITLE.
- FONT: BOOKMAN OLD STYLE, BOLD.
- MAP GRAPHIC, GROVE NAMES AND RULES TEXT TO BE PROVIDED BY FOREST PRESERVE DISTRICT IN DIGITAL FORMAT.
- COLOR SAMPLES ON FINISHED MATERIALS TO BE PROVIDED FOR APPROVAL.
- SHOP DRAWINGS SHALL BE SUBMITTED ROF APPROVAL.

TRAIL HEAD SIGN PANEL
N.T.S.

REVISIONS		
NO.	NAME	DATE

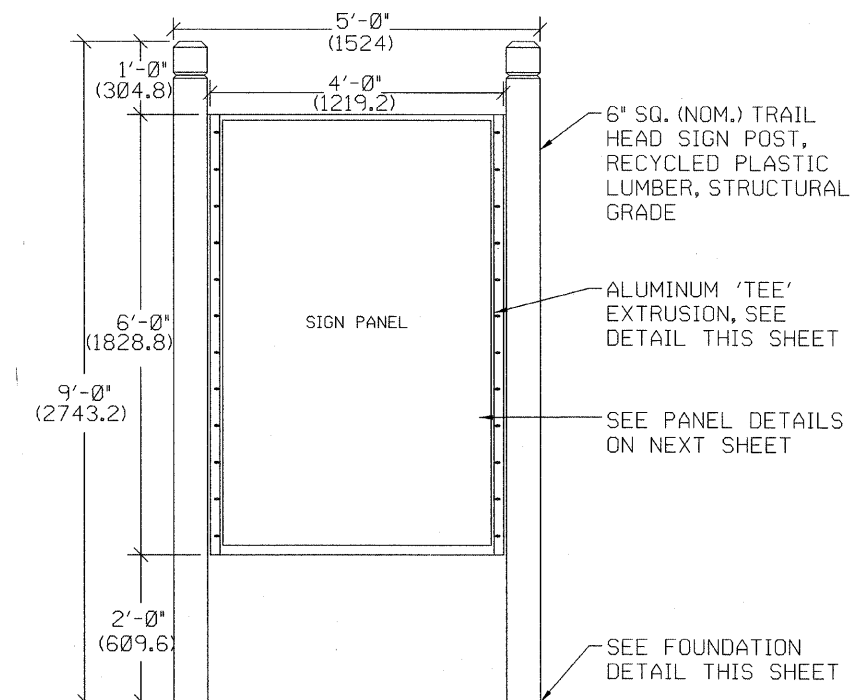
URS 100 S. WACKER DR., SUITE 500 TEL (312)-939-1000
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FOREST PRESERVE DISTRICT OF COOK COUNTY
CENTENNIAL TRAIL

SIGN PANEL DETAIL

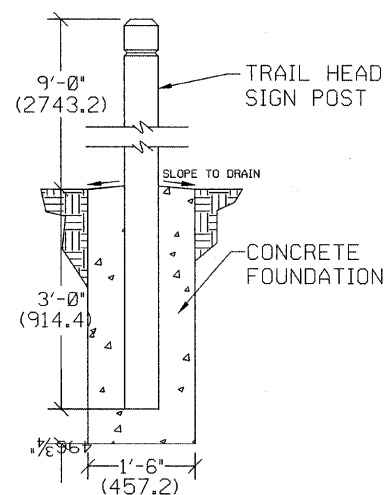
DATE: 11/9/07 DRAWN BY:
DESIGNED BY: DGM CHECKED BY: DIH

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT	COOK	29	13
STA. TO STA.			
PROJECT NO. TE-D001 (610)			
CENTENNIAL TRAIL			
CONTRACT NO. 63052			



NOTES:
1. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.

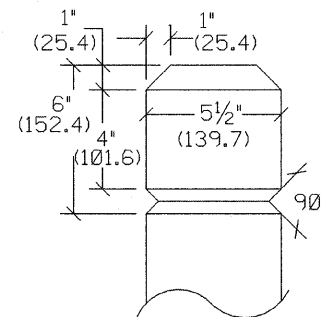
TRAIL HEAD SIGN
N.T.S.



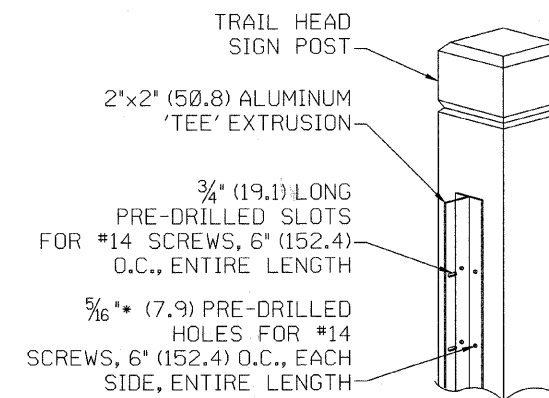
TRAIL HEAD POST FOUNDATION
N.T.S.

NOTES:

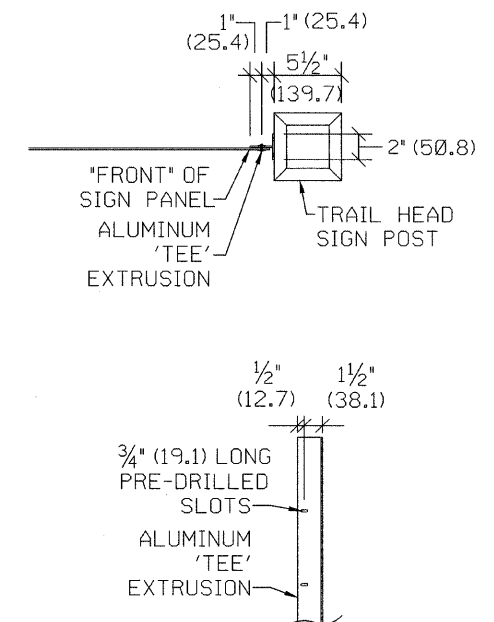
1. FASTEN TEE TO POST WITH #14 x 1.5" (38.1) SIX-LOBE SECURITY SCREWS, BUTTON HEAD, TYPE SMS, STAINLESS STEEL AND WASHER.
2. FASTEN SIGN PANEL TO TEE WITH #14 x 1" (25.4) SIX-LOBE SECURITY SCREWS, BUTTON HEAD, TYPE M/S, STAINLESS STEEL, ONE #14 WASHER AND ONE #14 TAMPER-PROOF NUT AS MANUFACTURED BY GUARD-NUT INC., SERIES 75, PLATED STEEL.



POST TOP DETAIL



ALUMINUM EXTRUSION



TRAIL HEAD POST DETAILS
N.T.S.

REVISIONS		
NO.	NAME	DATE

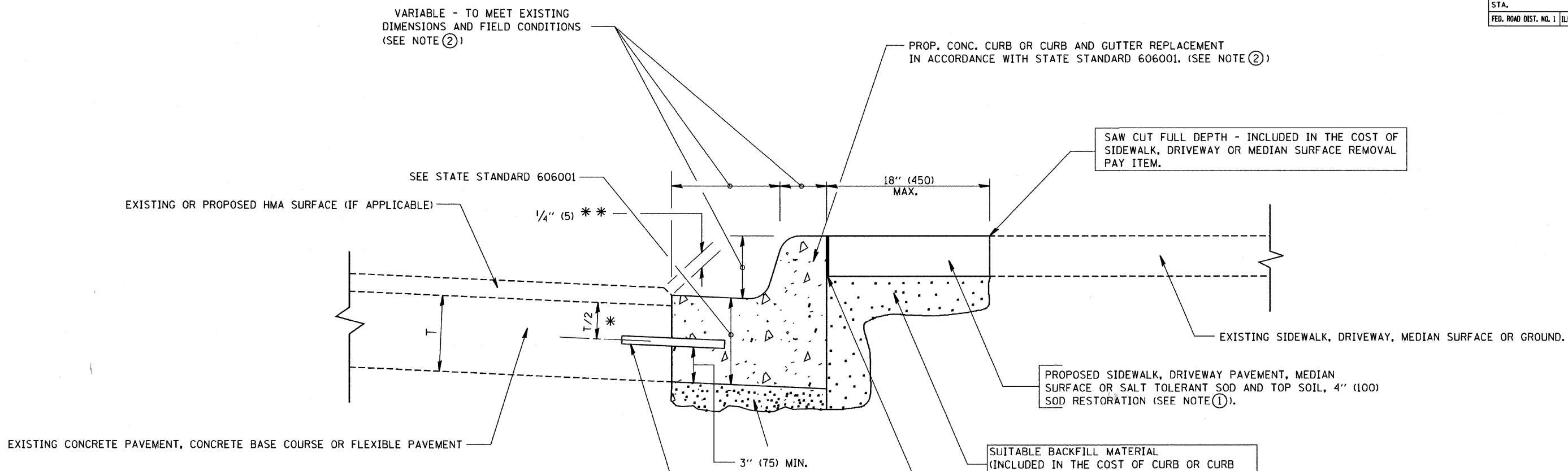
URS 100 S. WACKER DR., SUITE 500 TEL (312)-939-1000
CHICAGO, IL 60606 FAX (312)-939-4198

FOREST PRESERVE DISTRICT OF COOK COUNTY
CENTENNIAL TRAIL

TRAIL HEAD SIGN DETAILS

DATE: 11/9/07 DRAWN BY:
DESIGNED BY: DGM CHECKED BY: DIH

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-B		COOK	29	14
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63052				



- * 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.
- 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.
- 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.

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".

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

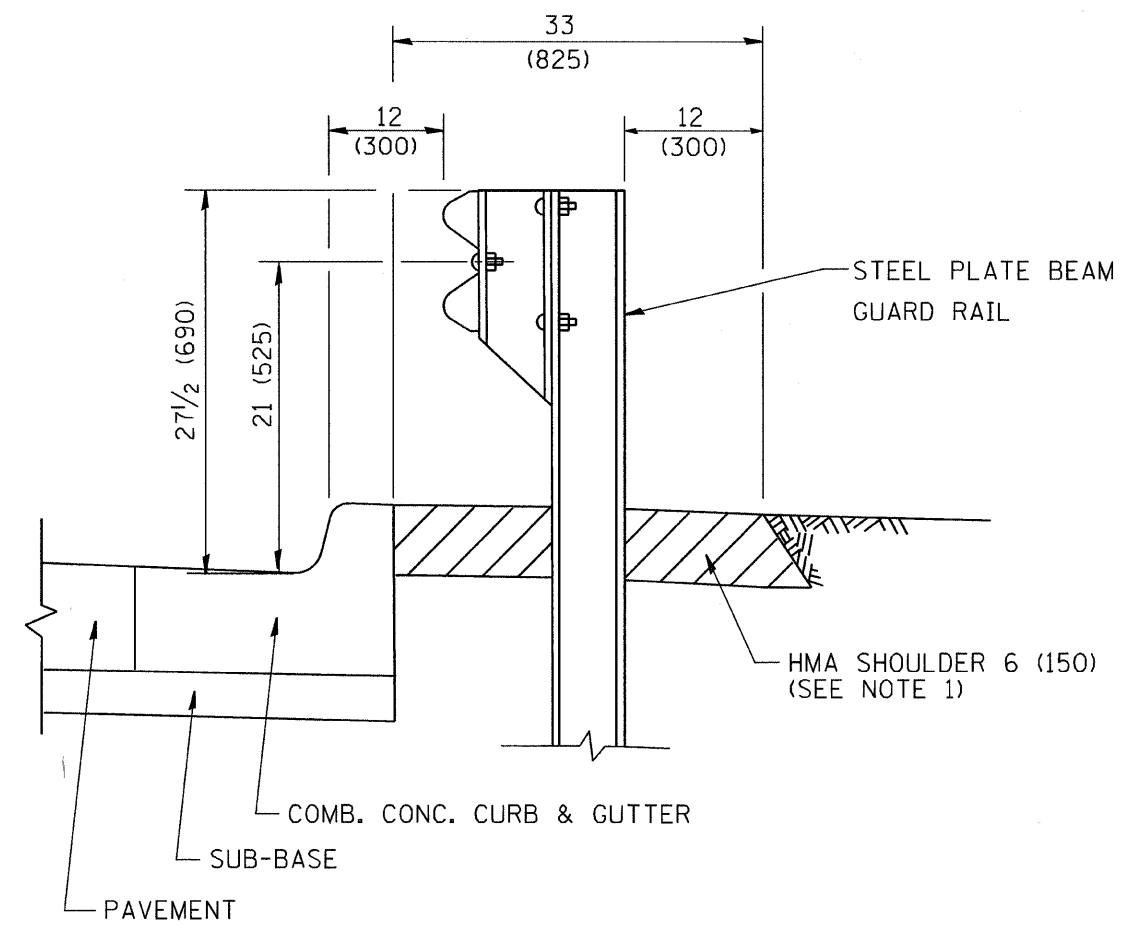
REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/96
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CURB OR CURB AND GUTTER
 REMOVAL AND REPLACEMENT

SCALE: VERT. NONE
 HORIZ. _____
 DRAWN BY _____
 CHECKED BY _____
 BD600-06 (BD-24)

PLOT DATE = 3/5/2007
 FILE NAME = K:\data\bd600.dgn
 PLOT NAME = BD600 / IN
 USER NAME = bborro

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT		COOK	29	15
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63052				

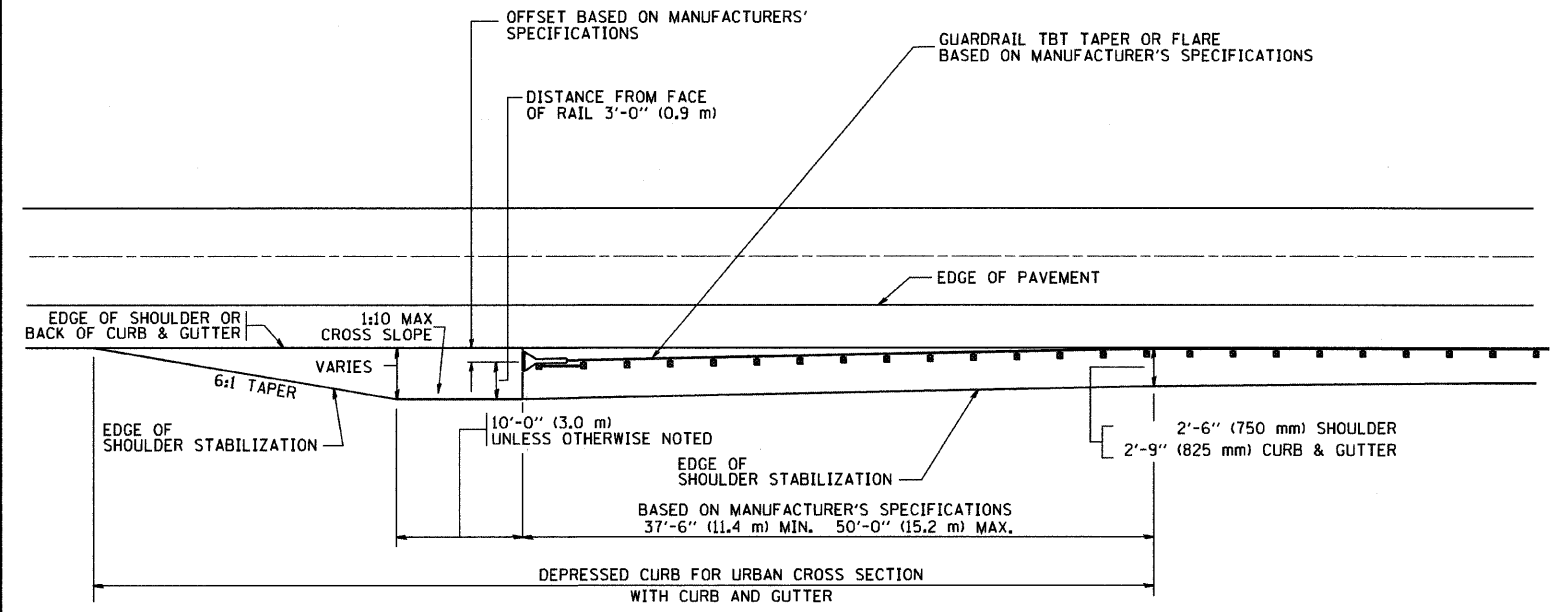


- NOTES: 1. THE HMA SHOULDER SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL
2. GUARD RAIL MAY BE PLACED AT THE BACK OF CURB WHEN DIRECTED BY THE ENGINEER.

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.

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

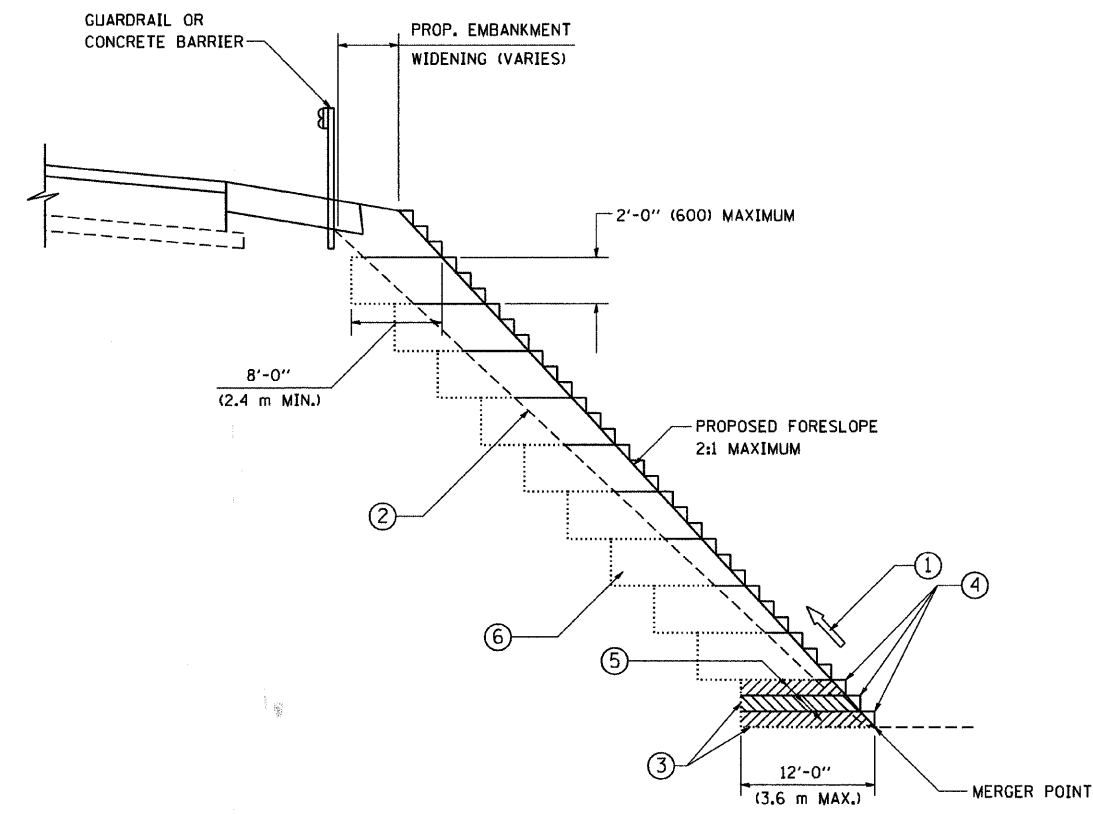
DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL.

SCALE: VERT. NONE
HORIZ. NONE

DRAWN BY jls
CHECKED BY

PLOT DATE = 3/4/2007
FILE NAME = K:\databases\bd34.dgn
PLOT NAME = 080808 / IN.
USER NAME = bbarndt

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-B7		COOK	29	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63052				



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

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

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

REVISIONS	
NAME	DATE
	06/16/04

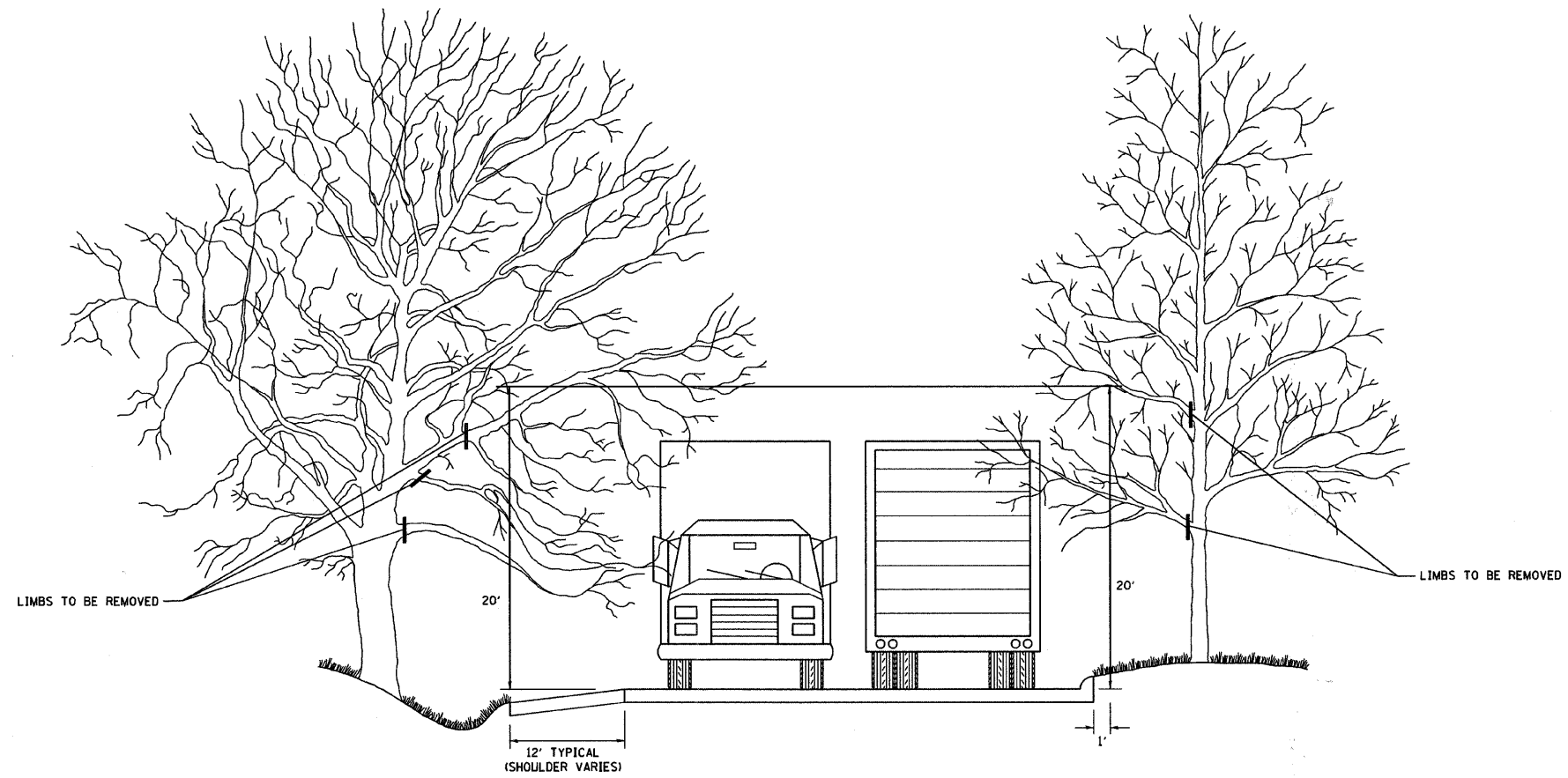
ILLINOIS DEPARTMENT OF TRANSPORTATION

**BENCHING DETAIL
FOR EMBANKMENT
WIDENING**

SCALE: VERT. NONE
HORIZ.

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT		COOK	29	17
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		



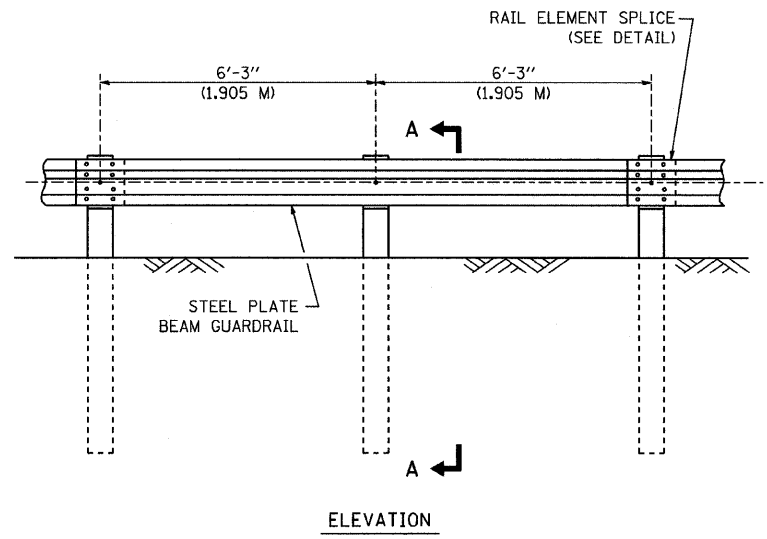
REVISIONS	
NAME	DATE
R. BORO	10/31/06

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PRUNING FOR SAFETY AND
 EQUIPMENT CLEARANCE**

SCALE: NONE

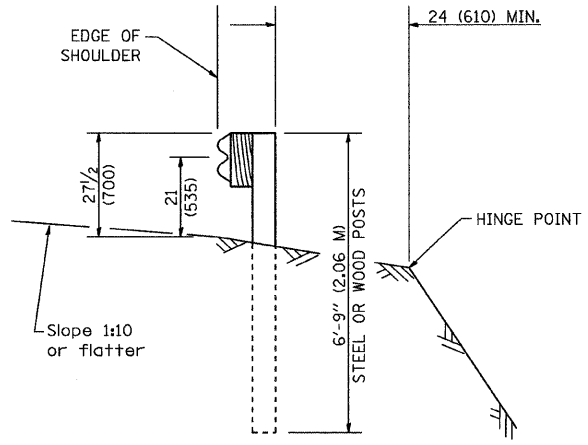
DRAWN BY CADD
 CHECKED BY
 BM-20

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-BT	COOK		29	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63052				

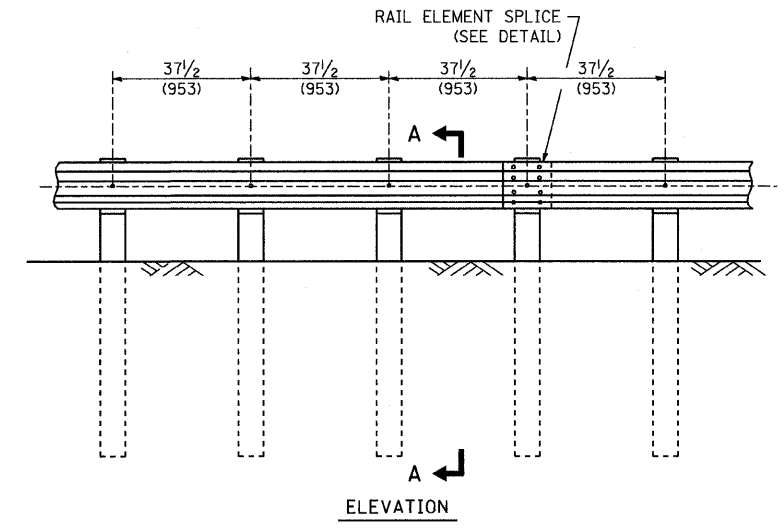


TYPE A

6'-3" (1.905 M) TYPICAL POST SPACING

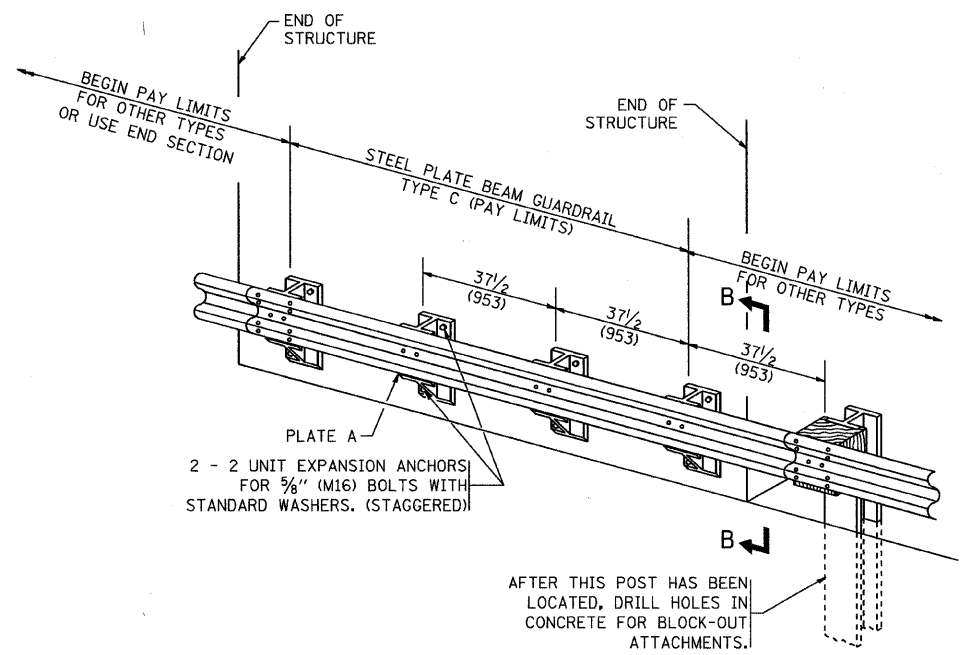


SECTION A-A



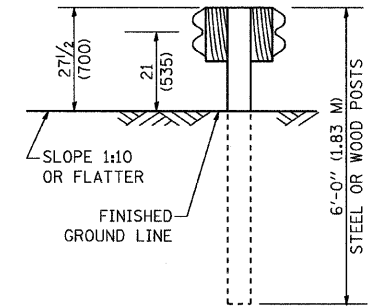
TYPE A

37 1/2 (953) CLOSED POST SPACING

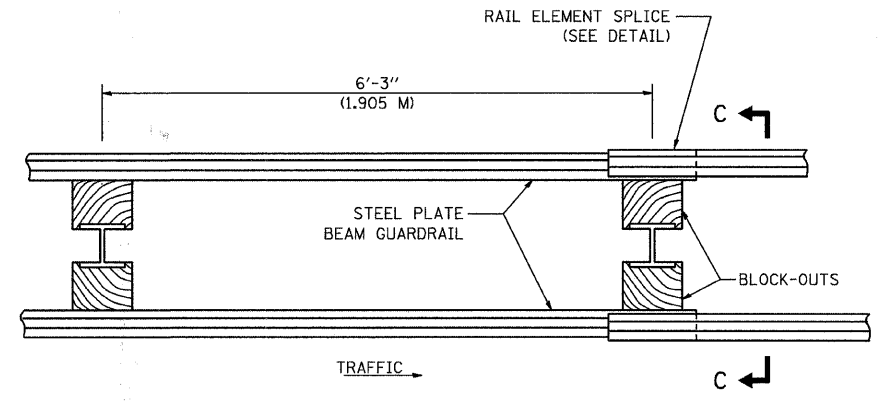


TYPE C

37 1/2 (953) BLOCK-OUT SPACING

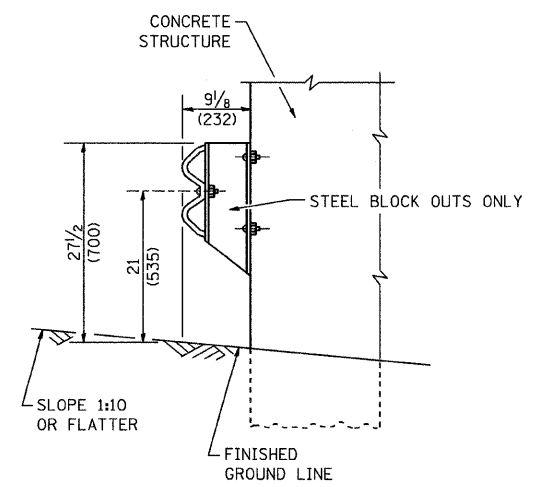


SECTION C-C



TYPE D

DOUBLE STEEL PLATE BEAM GUARDRAIL
6'-3" (1.905 M) TYPICAL POST SPACING



SECTION B-B

GENERAL NOTES

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

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

THE EXISTING STEEL POSTS MAY BE DRILLED TO MATCH THE BOLT PATTERN SHOWN HEREIN FOR THE WOOD BLOCK-OUT, OR A NEW STEEL POST SHALL BE PROVIDED.

THIS DETAIL IS APPLICABLE TO THE GUARDRAIL SYSTEM USED PRIOR TO JANUARY 1, 2007. FOR DETAILS ON THE MIDWEST GUARDRAIL SYSTEM, SEE STANDARD 630001.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

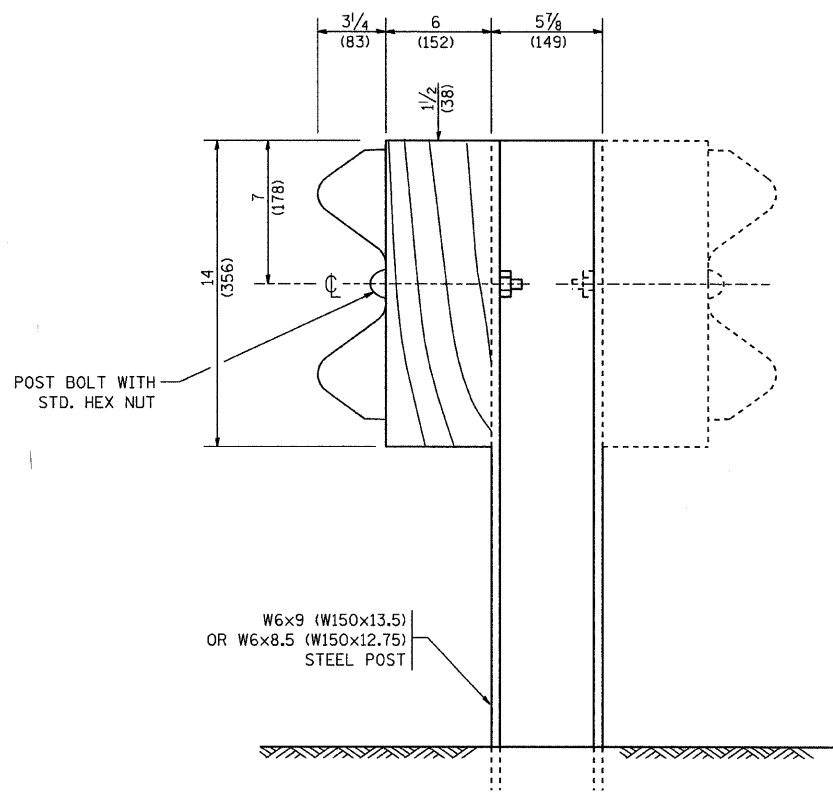
**REMOVE AND REERECT
STEEL PLATE BEAM GUARDRAIL
(SHEET 1 OF 4)**

SCALE: NONE
DATE: 2/27/2007

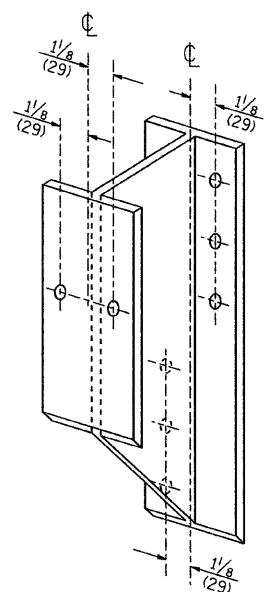
DRAWN BY
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USER NAME = jlg

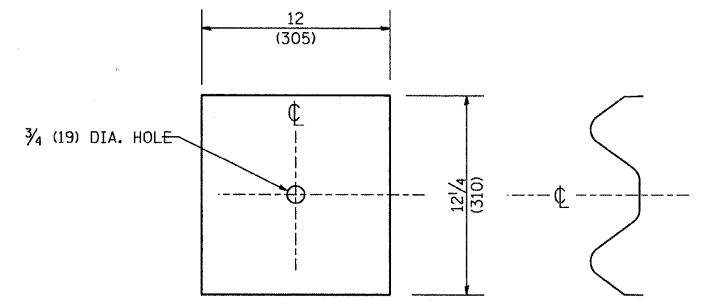
CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-P3000-20-B7		COOK	29	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63052				



STEEL POST CONSTRUCTION

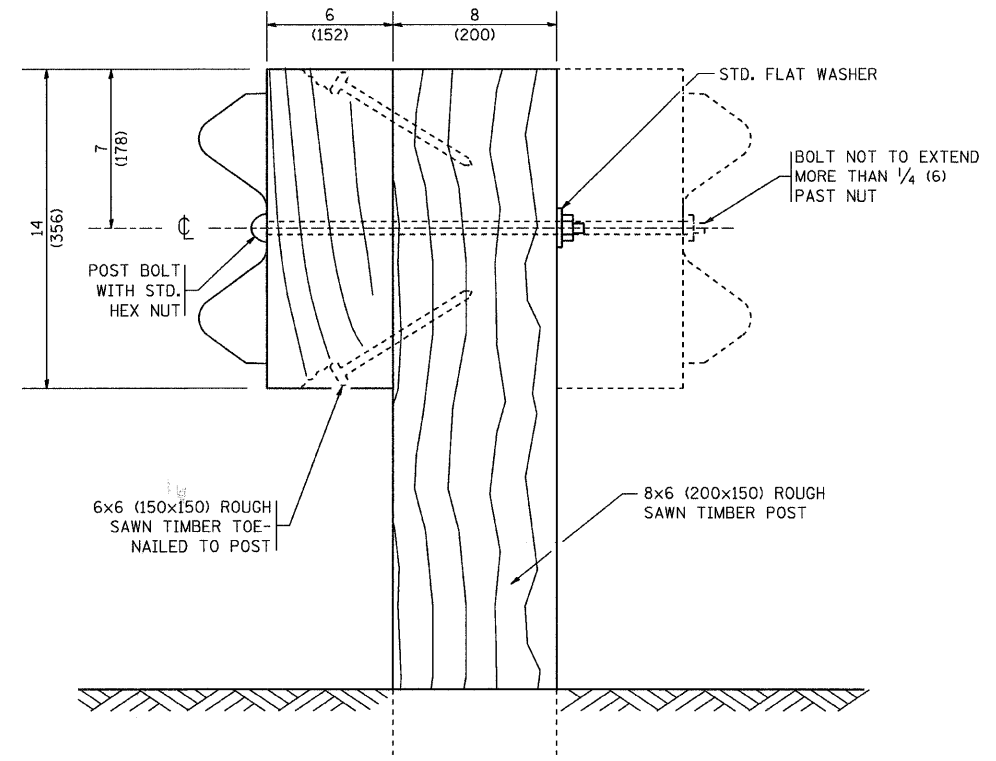


STEEL BLOCK-OUT DETAIL

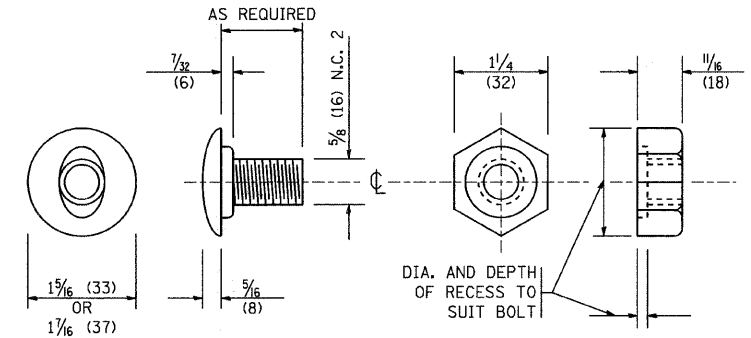


NOTE:
 PLATE A SHALL BE PLACED BETWEEN RAIL ELEMENT AND BLOCK-OUT AT NON-SPLICE MOUNTING POINTS ONLY WHEN STEEL BLOCK-OUTS ARE USED.

PLATE A



WOOD POST CONSTRUCTION



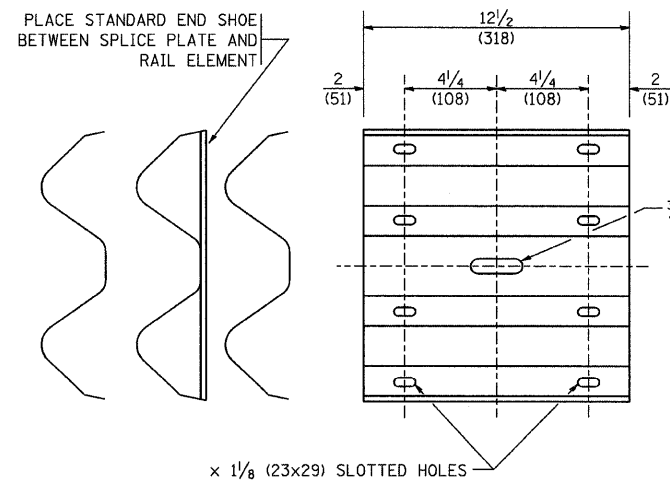
POST OR SPLICE BOLT & NUT

REVISIONS	
NAME	DATE

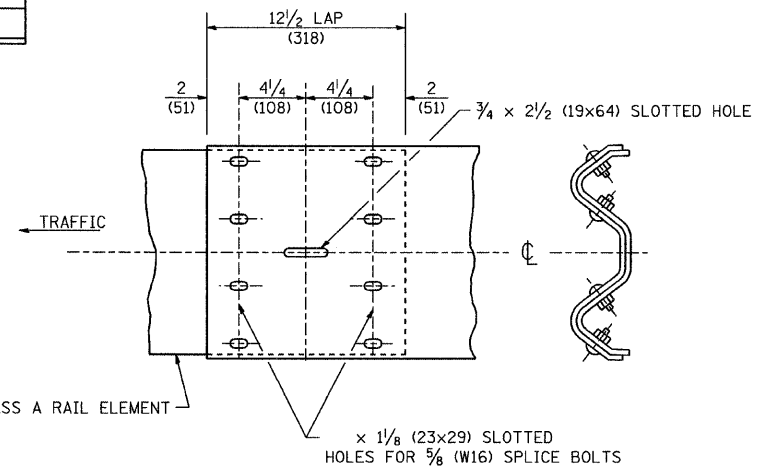
ILLINOIS DEPARTMENT OF TRANSPORTATION
 REMOVE AND REERECT
 STEEL PLATE BEAM GUARDRAIL
 (SHEET 2 OF 4)
 SCALE: NONE
 DATE: 2/27/2007
 DRAWN BY
 CHECKED BY

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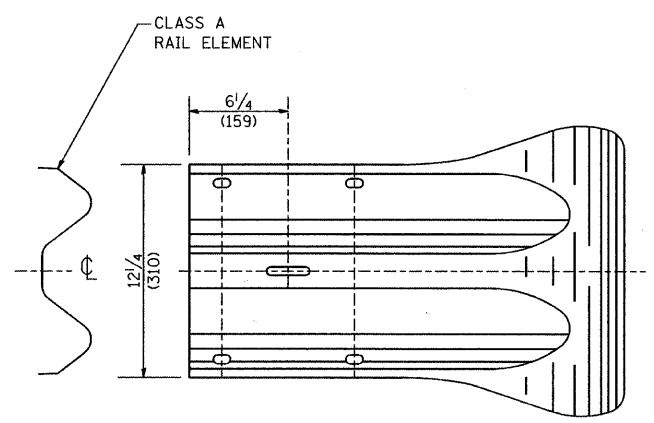
CONTRACT NO.			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
08-F3000-20-B7	COOK		29
SHEET NO.		20	
STA.		TO STA.	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	
CONTRACT NO. 63052			



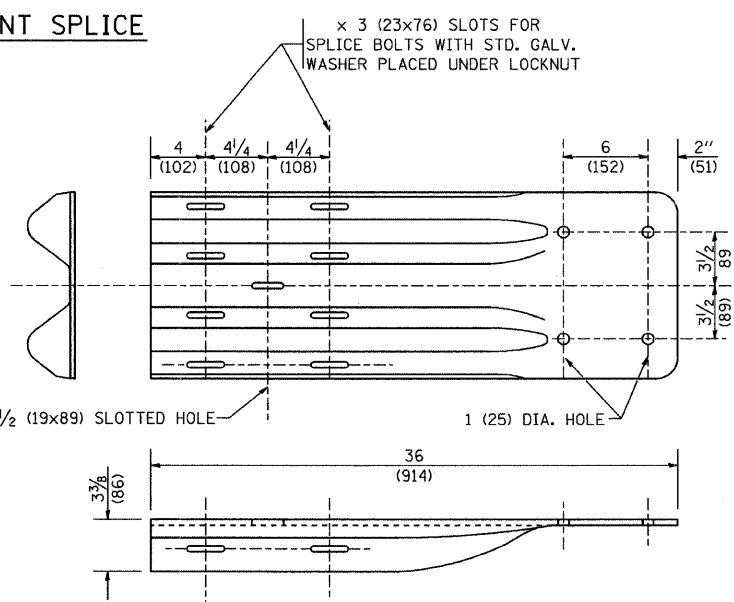
SPLICE PLATE



RAIL ELEMENT SPLICE



END SECTION



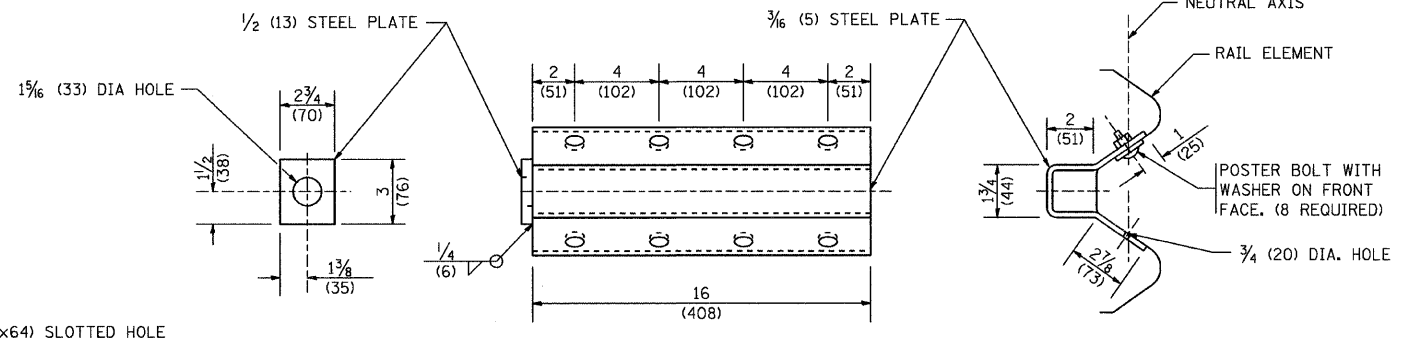
NOTE:

WHEN END SHOE IS ATTACHED TO A BRIDGE PARAPET WHICH HAS AN EXPANSION JOINT, THE BOLTS SHALL BE PROVIDED WITH A LOCKNUT OR DOUBLE NUT AND SHALL BE TIGHTENED ONLY TO A POINT THAT WILL ALLOW GUARDRAIL MOVEMENT.

THE STANDARD END SHOE SHALL BE ATTACHED TO THE CONCRETE WITH PRE-DRILLED OR SELF-DRILLING ANCHOR BOLTS. THE ANCHOR CONE SHALL BE SET FLUSH WITH THE SURFACE OF THE CONCRETE.

EXTERNALLY THREADED STUDS PROTRUDING FROM THE SURFACE OF THE CONCRETE WILL NOT BE PERMITTED.

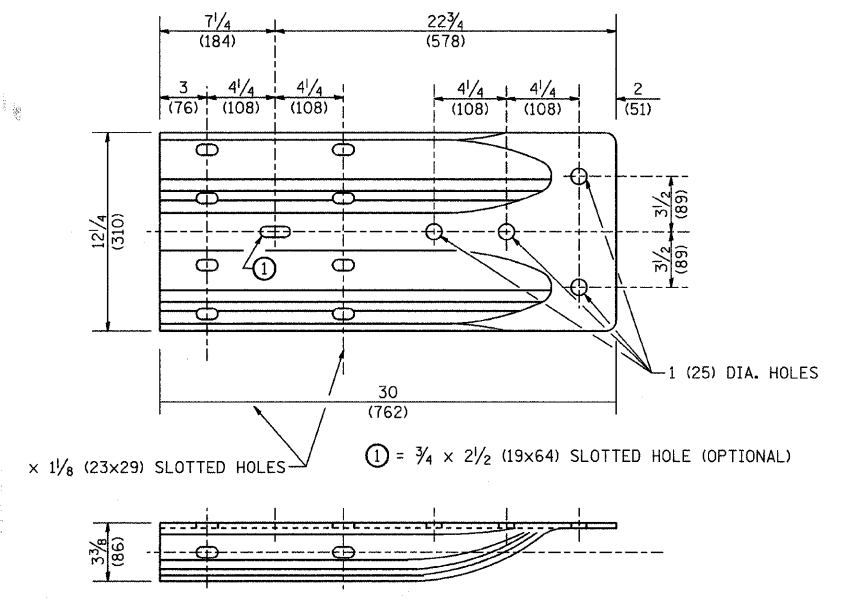
END SHOE



NOTE:

ANCHOR PLATE T SHALL BE USED TO ATTACH CABLE ASSEMBLY TO GUARDRAIL WHEN REQUIRED ON TRAFFIC BARRIER TERMINALS.

ANCHORE PLATE T DETAILS



ALTERNATE END SHOE

REVISIONS	
NAME	DATE

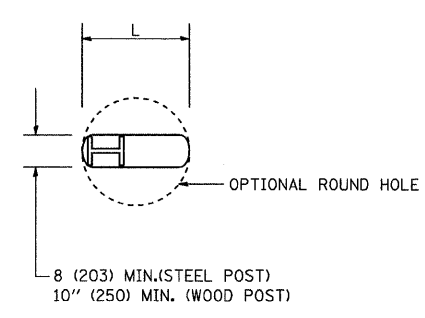
ILLINOIS DEPARTMENT OF TRANSPORTATION

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL (SHEET 3 OF 4)

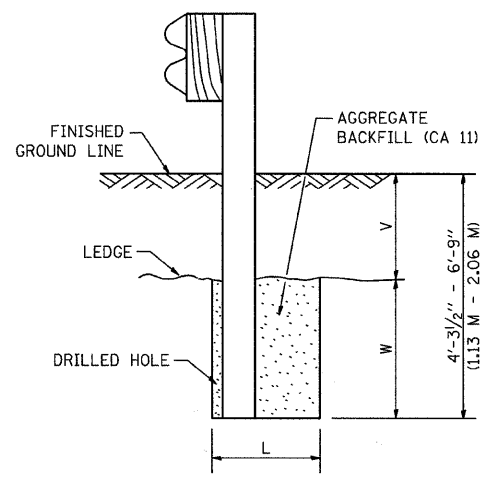
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DATE: 2/27/2007

DRAWN BY
CHECKED BY

PLOT DATE = 2/27/2007
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USER NAME = hmo2



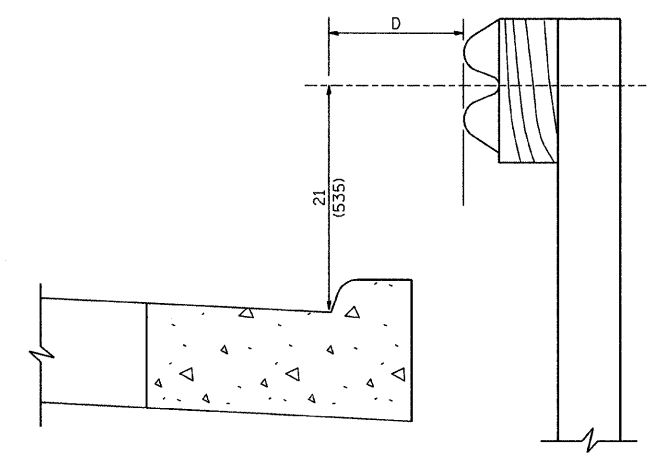
PLAN



NOTE:
LEDGE LINE IS TOP OF ROCK
LEDGE OR HARD SLAG FILL.

ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

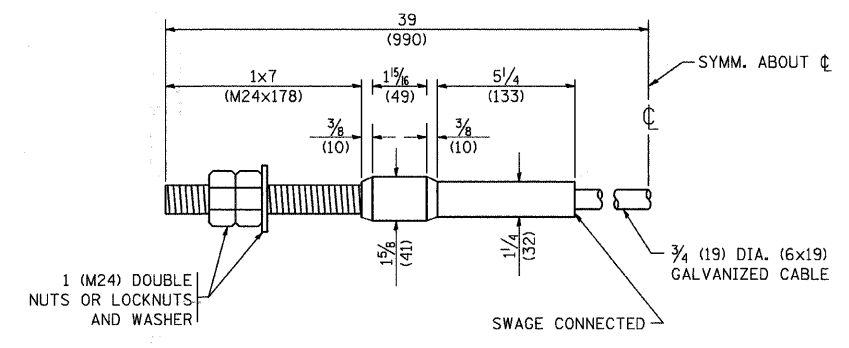
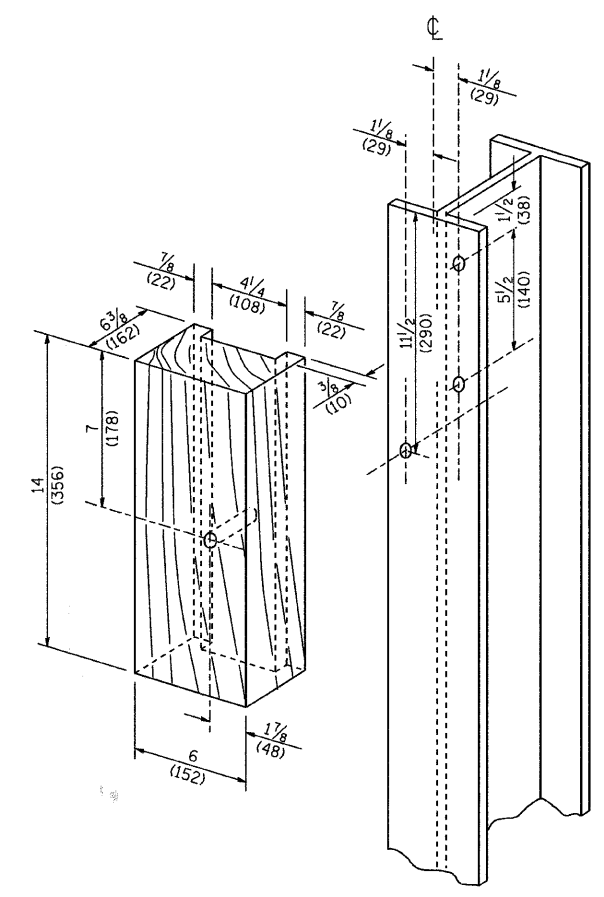


NOTE:
IF IT IS NECESSARY FOR D TO BE MORE THAN 12 (300) AND LESS THAN 10'-0" (3.0 M) TYPE M-2 (M-5) CURB AND GUTTER (STD. 606001) SHALL BE USED IN FRONT OF AND IN ADVANCE OF THE GUARDRAIL.

GUARDRAIL PLACED BEHIND CURB

(D = 0 DESIRABLE TO 12 (300) MAXIMUM)

V	W	L	
		STEEL POST	WOOD POST
0 - 18 (0 - 460)	24 (610)	21 (530)	23 (580)
>18 - 41.5 (> 460 - 825)	12 (305)	8 (203)	10 (250)
>41.5 - 53.5 (> 825 - 1.13 M)	12 - 0 (350 - 0)	8 (203)	10 (250)



CABLE ASSEMBLY

(40,000 LBS (18,100 KG) MIN. BREAKING STRENGTH)
TIGHTEN TO TAUT TENSION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

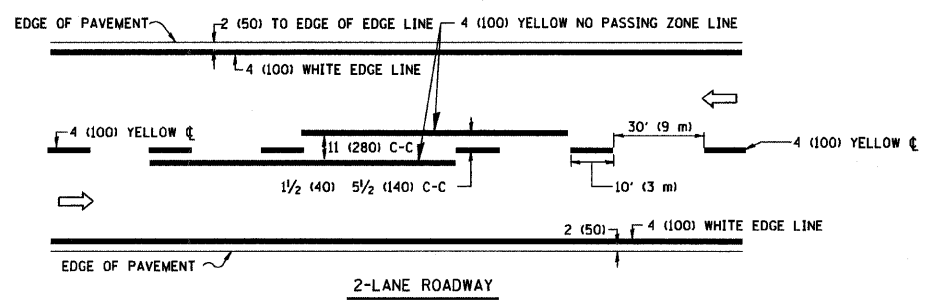
REMOVE AND REERECT
STEEL PLATE BEAM GUARDRAIL
(SHEET 4 OF 4)

SCALE: NONE
DATE: 2/27/2007

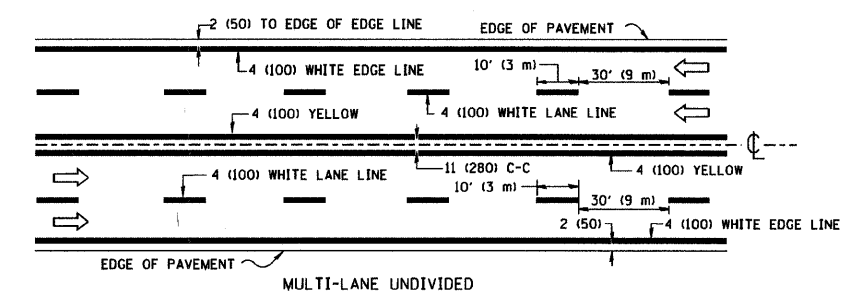
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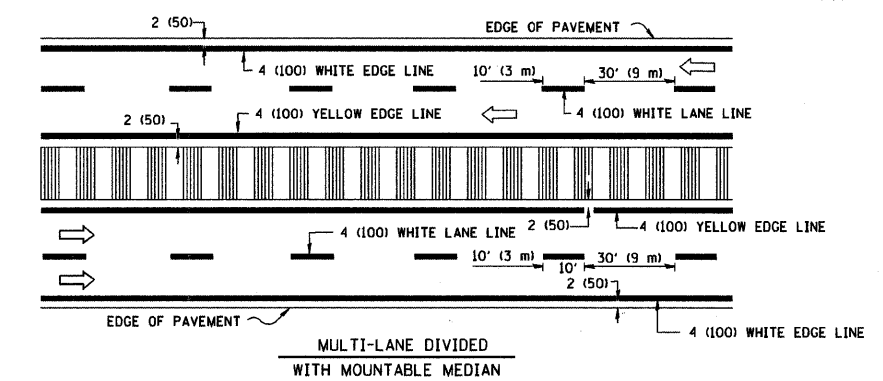
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F3000-20-B7	COOK		29	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63052				



2-LANE ROADWAY



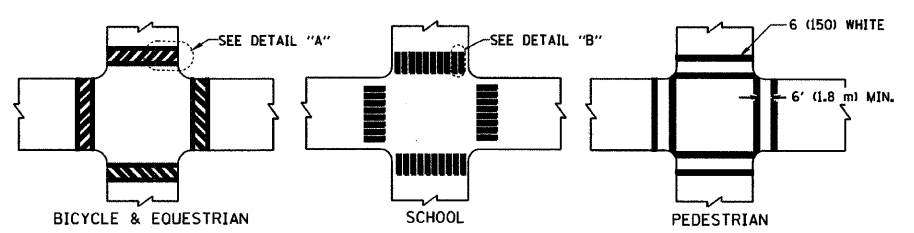
MULTI-LANE UNDIVIDED



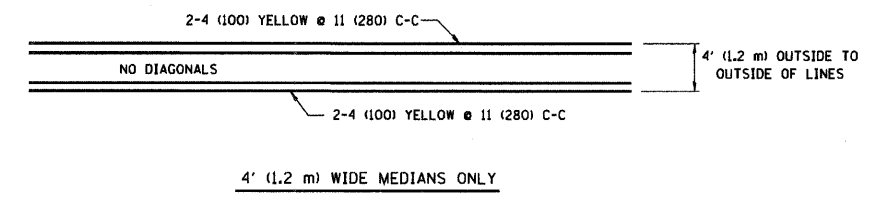
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

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

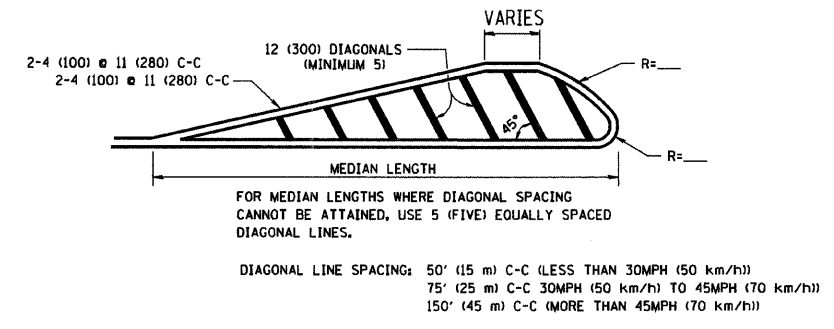
TYPICAL LANE AND EDGE LINE MARKING



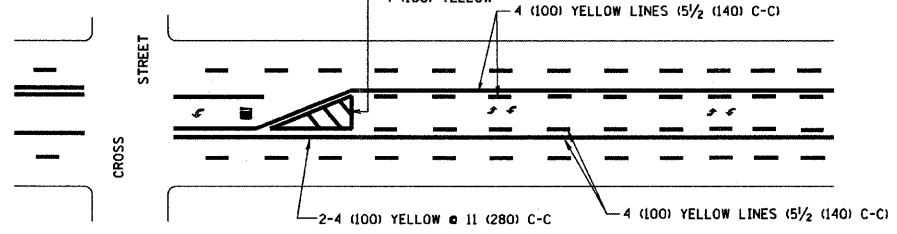
TYPICAL CROSSWALK MARKING



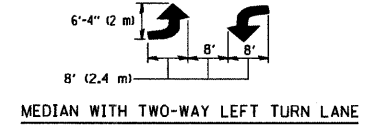
4' (1.2 m) WIDE MEDIANS ONLY



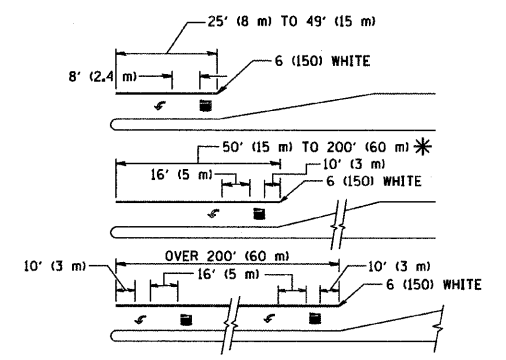
MEDIANS OVER 4' (1.2 m) WIDE



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

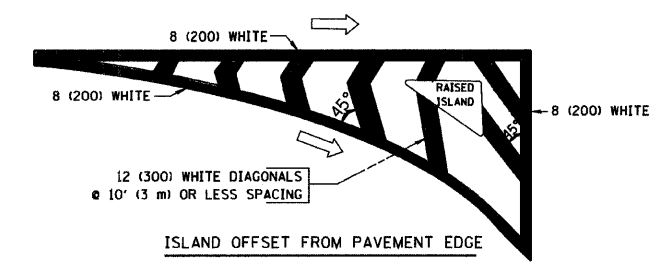


TYPICAL PAINTED MEDIAN MARKING

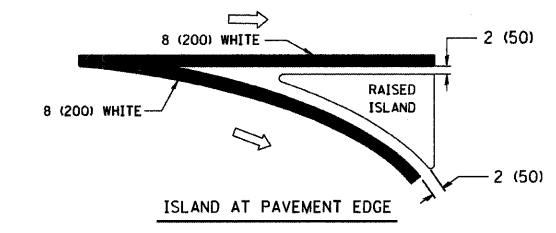


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

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

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

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

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

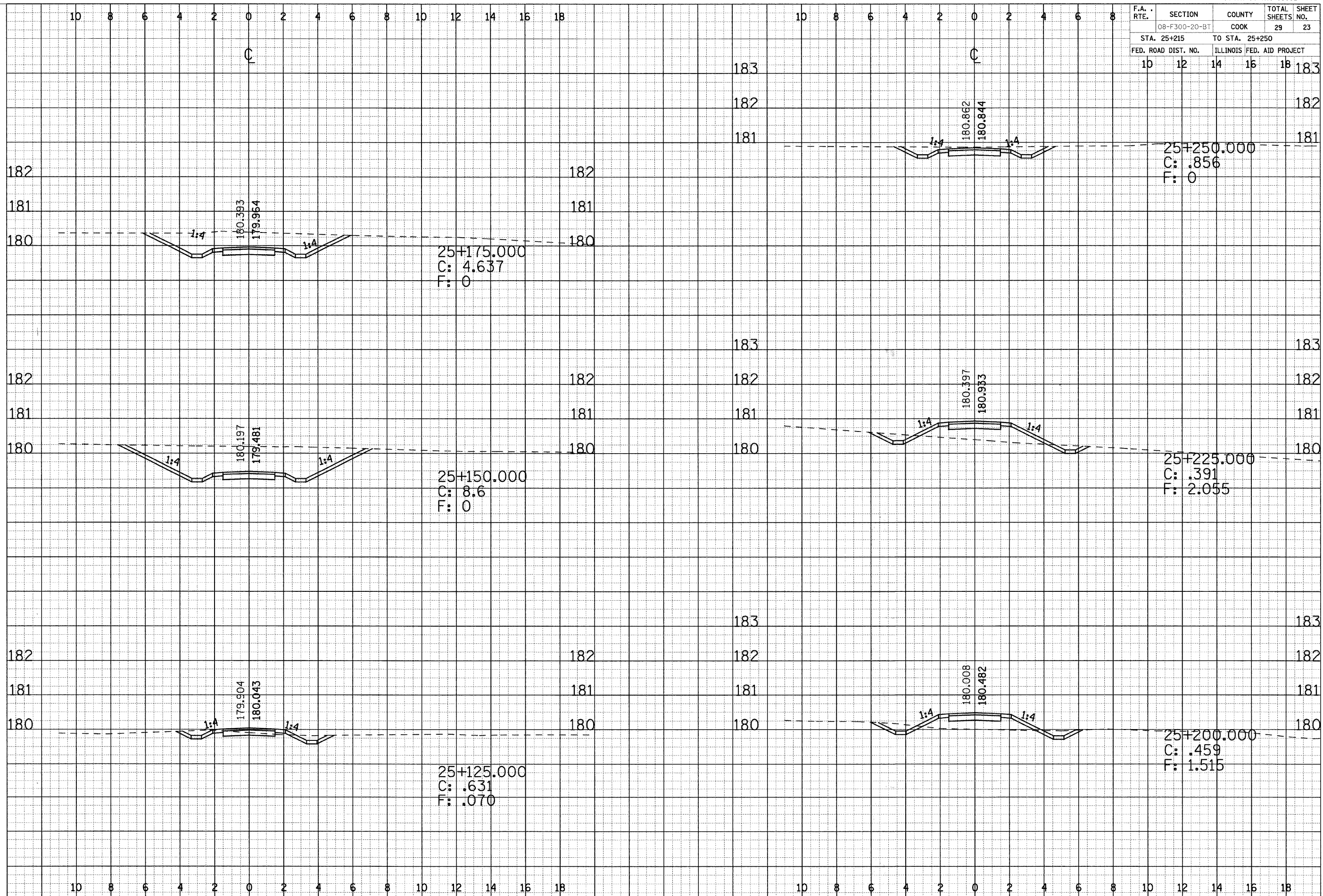
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT ONE
 TYPICAL PAVEMENT
 MARKINGS

SCALE: NONE
 DRAWN BY CADD
 CHECKED BY
 TC-13

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F300-20-BT		COOK	29	23
STA. 25+215		TO STA. 25+250		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
10	12	14	16	18

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

ORIGINAL SURVEY DATE
 SURVEYED BY
 SURVEY TEMPLATE NO.
 AREAS CHECKED
 AREAS CHECKED



25+175.000
 C: 4.637
 F: 0

25+150.000
 C: 8.6
 F: 0

25+125.000
 C: .631
 F: .070

25+250.000
 C: .856
 F: 0

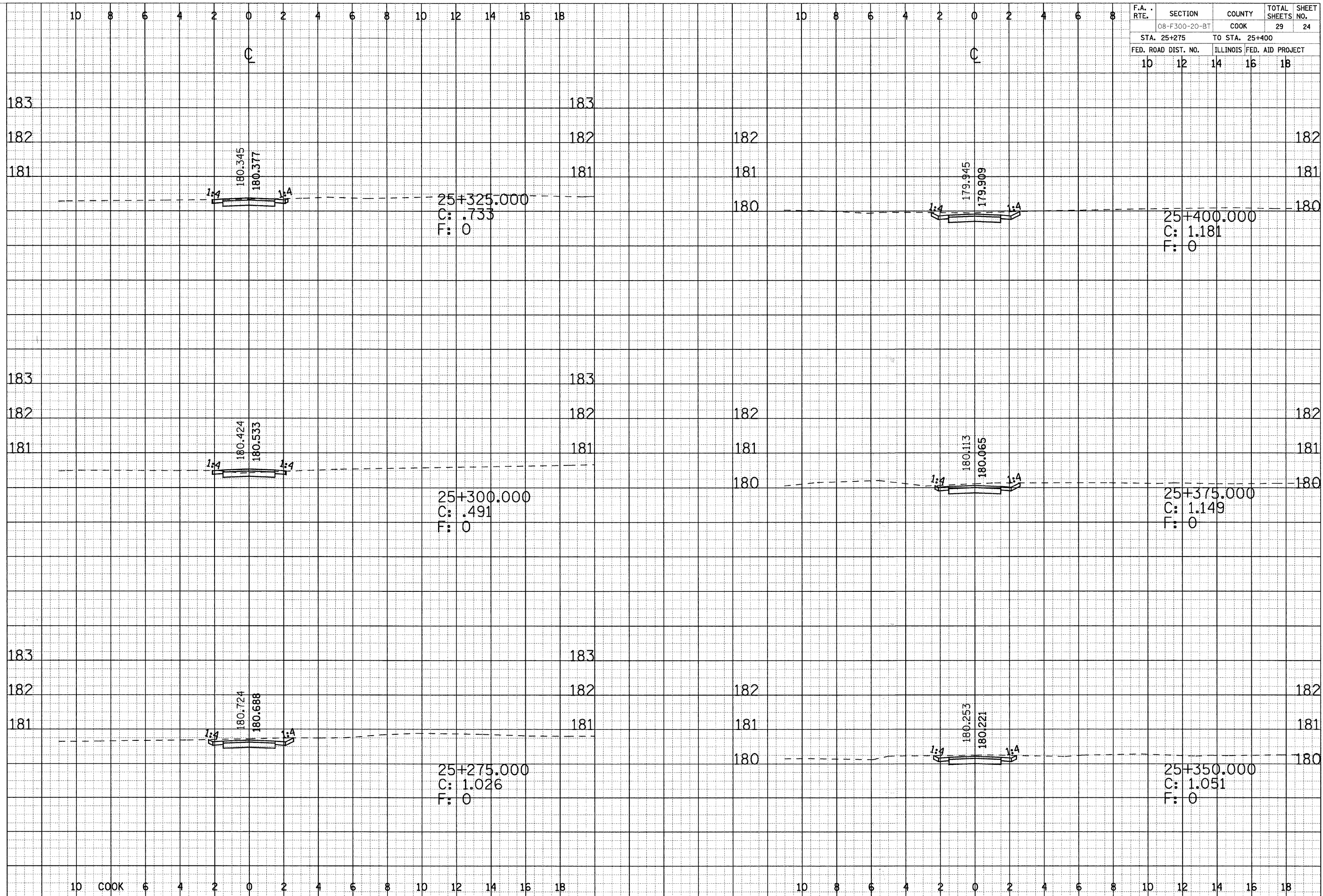
25+225.000
 C: .391
 F: 2.055

25+200.000
 C: .459
 F: 1.515

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F300-20-BT		COOK	29	24
STA. 25+275		TO STA. 25+400		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
10	12	14	16	18

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

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



25+325.000
 C: .733
 F: 0

25+400.000
 C: 1.181
 F: 0

25+300.000
 C: .491
 F: 0

25+375.000
 C: 1.149
 F: 0

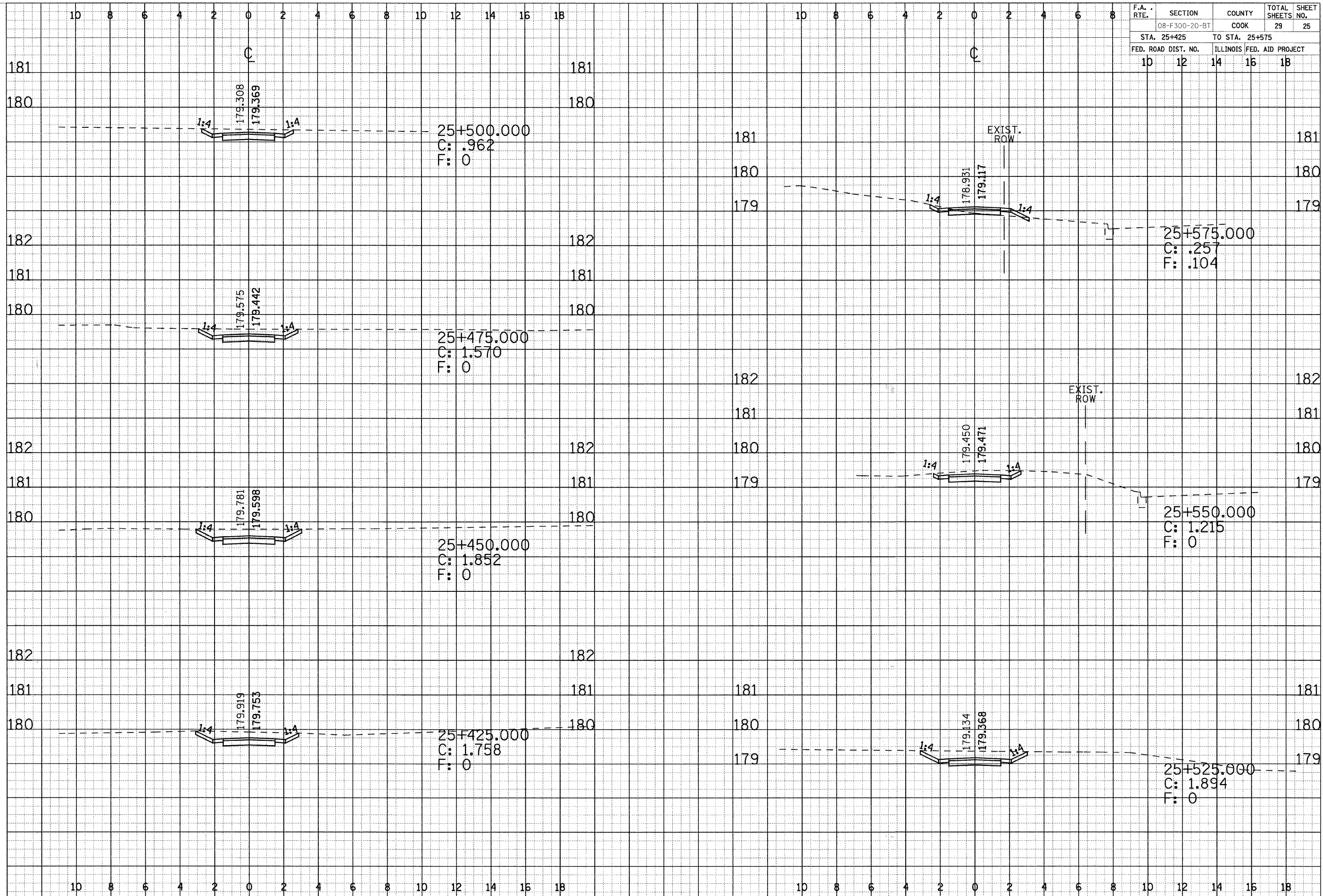
25+275.000
 C: 1.026
 F: 0

25+350.000
 C: 1.051
 F: 0

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F300-20-BT		COOK	29	25
STA. 25+425		TO STA. 25+575		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
10	12	14	16	18

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

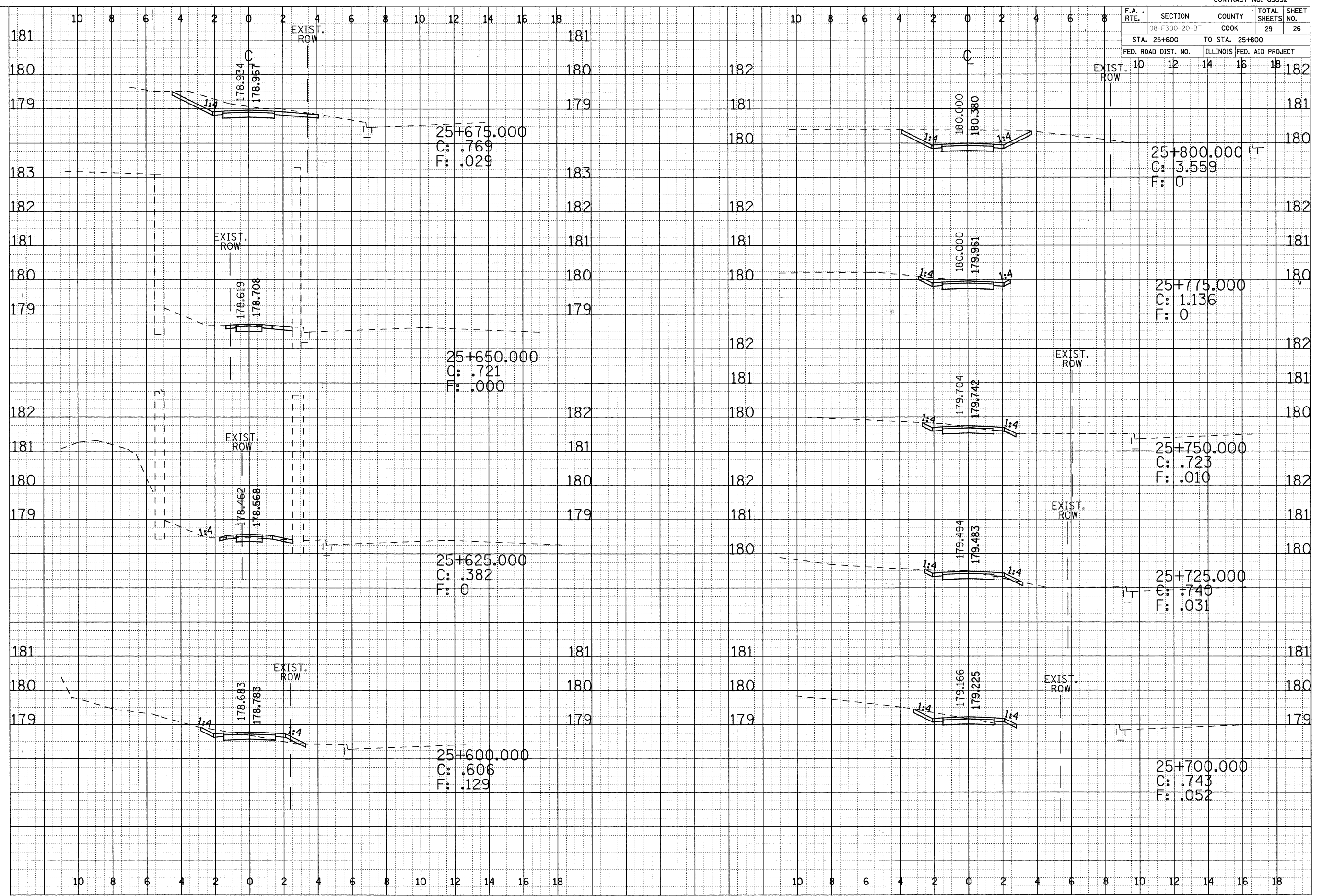
DATE _____
 BY _____
 SURVEYED _____
 SURVEY _____
 NOTE BOOK _____
 TEMPLATE _____
 AREAS _____
 CHECKED _____
 NO. _____



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F300-20-BT		COOK	29	26
STA. 25+600		TO STA. 25+800		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____

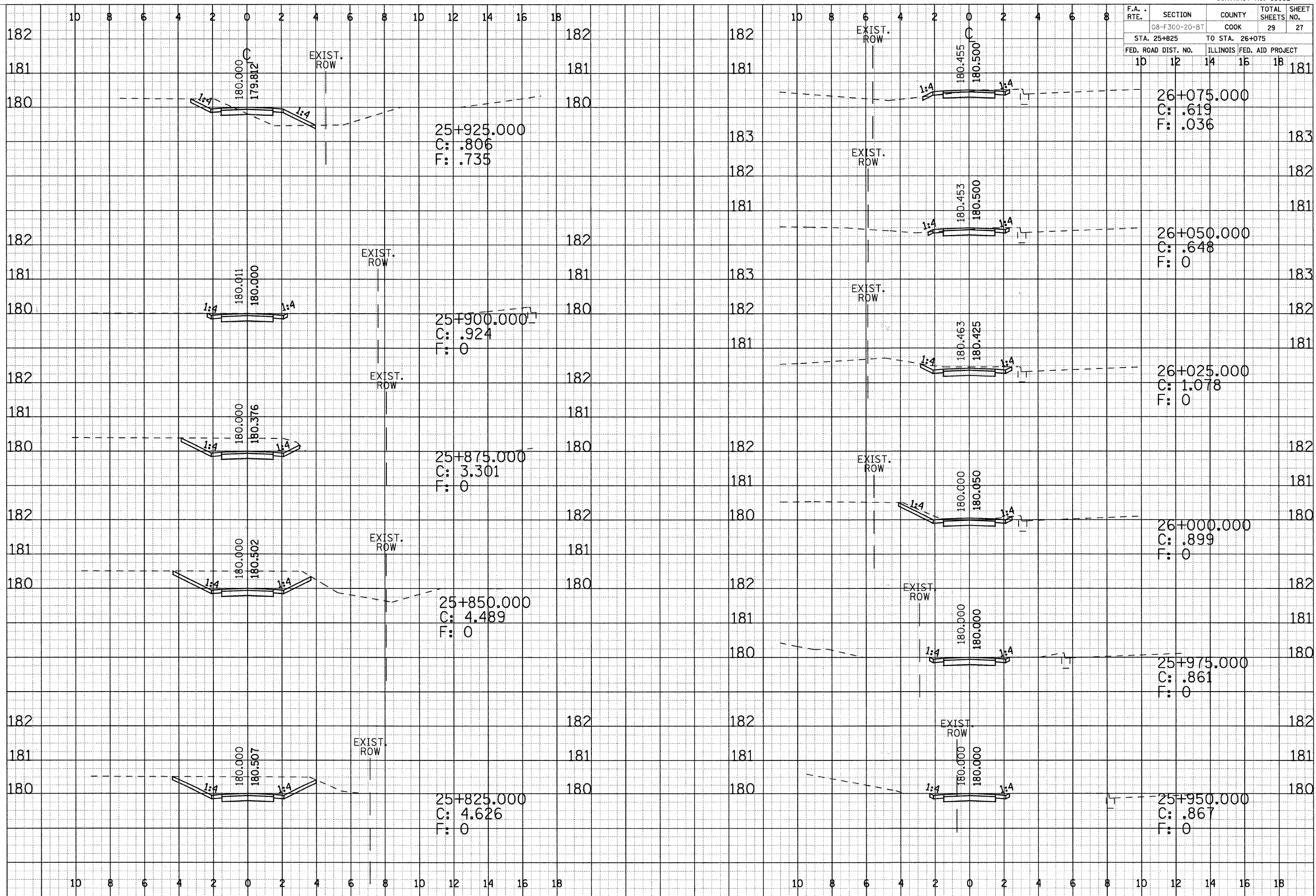
DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____



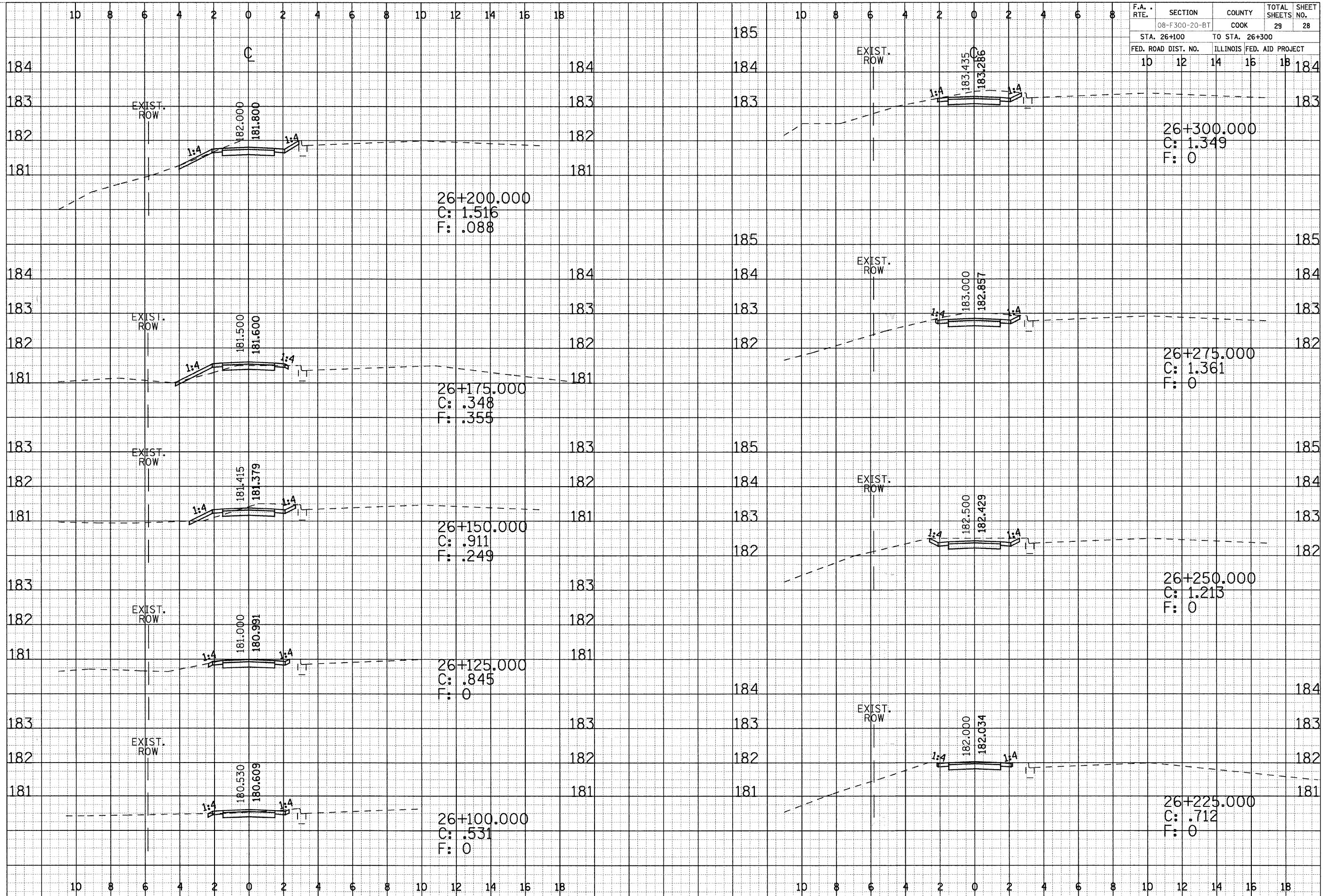
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F300-20-BT	COOK	29	27	
STA. 25+825		TO STA. 26+075		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
10	12	14	15	18

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

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



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F300-20-BT		COOK	29	28
STA. 26+100		TO STA. 26+300		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
10	12	14	16	18



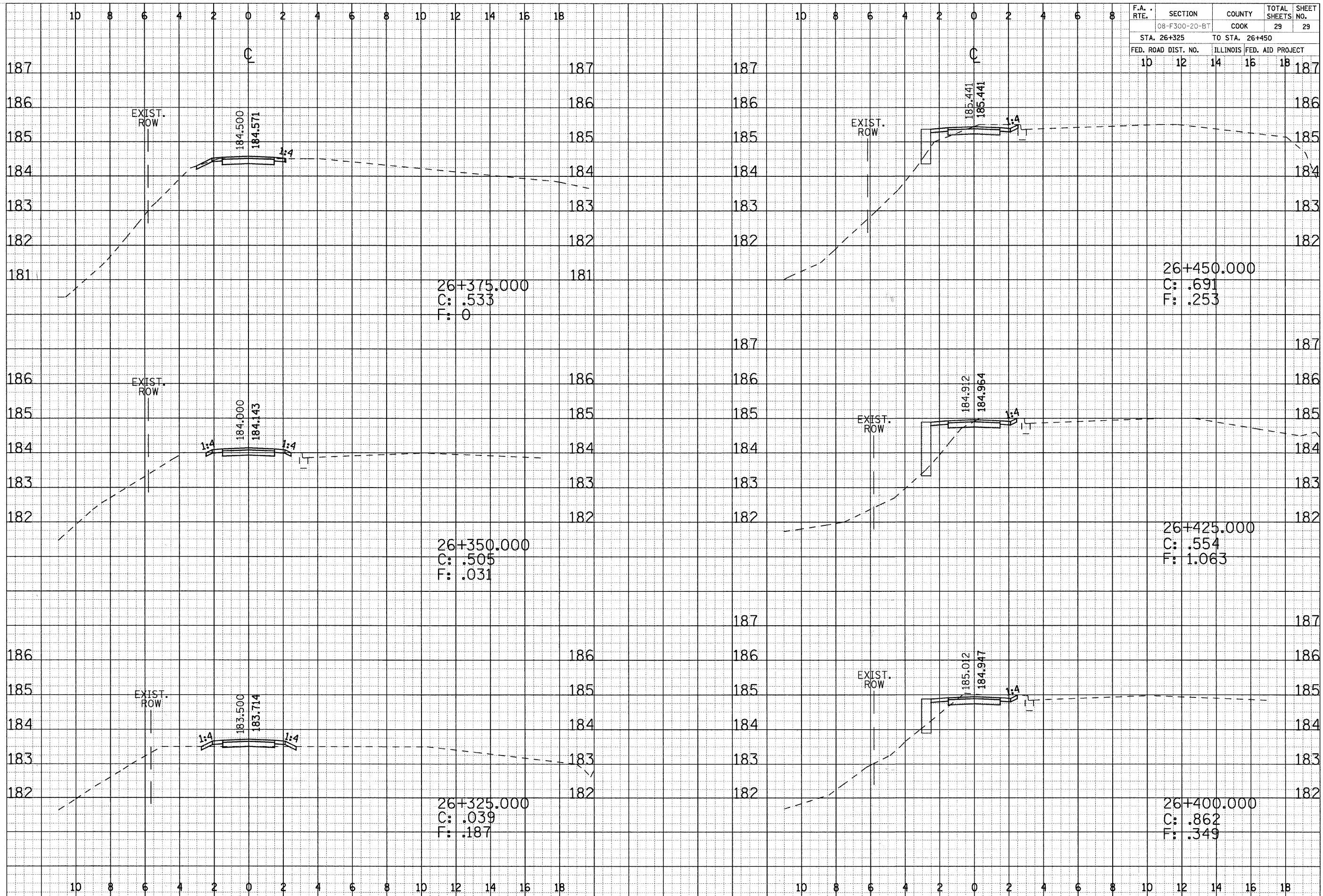
BY _____ DATE _____
 ORIGINAL SURVEY _____
 SURVEY _____
 NOTE BOOK _____
 TEMPLATE _____
 AREA _____
 AREAS CHECKED _____

BY _____ DATE _____
 ORIGINAL SURVEY _____
 SURVEY _____
 NOTE BOOK _____
 TEMPLATE _____
 AREA _____
 AREAS CHECKED _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-F300-20-BT		COOK	29	29
STA. 26+325		TO STA. 26+450		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
10	12	14	16	18

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

ORIGINAL SURVEY
 SURVEYED BY _____
 NOTE BOOK NO. _____
 TEMPLATE _____
 AREAS CHECKED _____



26+375.000
 C: .533
 F: 0

26+350.000
 C: .505
 F: .031

26+325.000
 C: .039
 F: .187

26+450.000
 C: .691
 F: .253

26+425.000
 C: .554
 F: 1.063

26+400.000
 C: .862
 F: .349