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INDEX OF SHEETS

SHEET NO.

DESCRIPTION

COVER SHEET AND INDEX OF SHEETS

GENERAL NOTES & SUMMARY OF QUANTITIES TYPICAL EARTH BERM SECTION, EARTHWORK SCHEDULE AND

PRECAST BLOCK REVETMENT MAT DETAIL

TREE PLANTING DETAIL GENERAL PLAN SHEET

SEEDING, MOWING, SPRAYING DETAIL & SCHEDULES
PLANTING AND TREE DETAIL & SCHEDULES

CLEARING AND GRUBBING DETAIL

EROSION CONTROL DETAIL & SCHEDULES

CROSS SECTION SHEETS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED

000001-04

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

280001-02 TEMPORARY EROSION CONTROL SYSTEM

STATE OF ILLINOIS

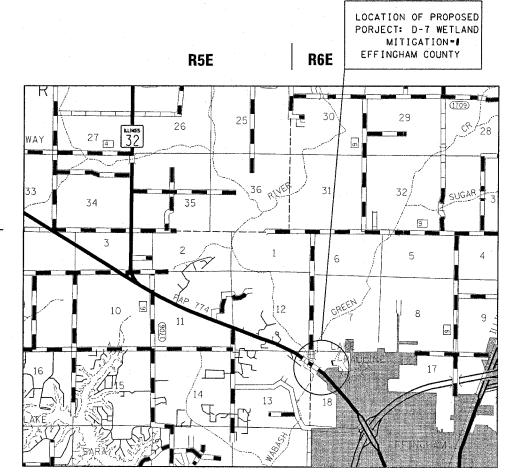
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 774 (IL 33) SECTION D-7 WETLAND MITIGATION - 1 **EFFINGHAM COUNTY**

C-97-053-06



LOCATION OF SECTION INDICATED THUS: - -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

May 12, 20 De Nike Hine (16) ENGINEER OF DESIGN AND ENVIRONMENT

COUNTY TOTAL SHEET SHEETS NO.

EFFINGHAM ./5

* D-7 WETLAND MITIGATION - 1

SECTION

D-97-026-06

May 12, 20 06 Milton R. Sees, P.E. R. DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

T9N

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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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

2003 ADT = 10.600

CONTRACT NO. 74154

TOWNSHIP : DOUGLAS

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2002; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" INDICATED ON THE CHECK SHEET, AND "THE SPECIAL PROVISIONS" INCLUDED IN THE PROPOSAL.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF WETLAND MITIGATION WHICH INCLUDED THE CONSTRUCTION OF AN EARTH BERM, AN AGGREGATE DITCH CHECK, PERENNIAL PLANTS AND TREE PLANTING, SEEDING AND OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

THE PROPOSED PROJECT IS LOCATED NORTH OF THE WABASH RIVER OVERFLOW ADJACENT TO IL ROUTE 33, 0.25 MILE NORTH OF FORD AVENUE IN EFFINGHAM, IN EFFINGHAM COUNTY.

THE CONTRACTOR SHALL CONTACT J.U.L.I.E. PRIOR TO ANY EXCAVATION TO HAVE ANY PUBLIC AND PRIVATE UTILITIES LOCATED.

ALL DISTURBANCES TO THIS SITE WILL BE KEPT TO A MINIMUM.

TEMPORARY EROSION CONTROL SEEDING AT A LOW APPLICATION RATE OF 40 LBS PER ACRE SHALL BE COMPLETED ONLY ON DISTURBED ARES WITHIN THE SITE TO GIVE MINIMAL GROUND COVER.

THERE ARE TWO EXISTING WETLAND SITES ON THE PROJECT. THE EXISTING WETLAND VEGETATIONS SHALL NOT BE DISTURBED OUTSIDE THE CONSTRUCTION LIMITS OF THE PROJECT. THE CONTRACTOR SHALL BE REQUIRED TO PROTECT THESE AREAS. NO EQUIPMENT WILL BE ALLOWED IN THESE AREAS. IF THE CONTRACTOR FAILS TO KEEP HIS/HER WORKERS FROM ABIDING BY THIS REQUIREMENT, THE RESIDENT ENGINEER WILL DETERMINE AND DEDUCT DAMAGES OF \$2000 PER OCCURRENCE FROM THE FINAL PLAN QUANTITY. TWO WEEK NOTICE WILL BE REQUIRED TO SCHEDULE STAKING OF THE WETLAND AREAS SHOWN ON THE PLANS. THESE AREAS WILL BE STAKED WITH THE ASSISTANCE OF THE ENVIRONMENTAL TECHNICIAN, EUGENE BECCUE (217)342-8249. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE NUMBER OF LATHES PRIOR TO THE SCHEDULED STAKING OF THE WETLANDS. THE TEMPORARY FENCE SHALL BE ERECTED AT THE STAKED LOCATIONS. THIS WORK WILL BE PAID FOR AS TEMPORARY FENCE, PER FOOT AT THE CONTRACT UNIT PRICE. A BUFFER ZONE NEXT TO THE WETLANDS IS SHOWN ON THE PLANS. CONSTRUCTION IN THIS AREA SHALL BE KEPT TO A MINIMUM.

THERE ARE TREES WHICH ARE MARKED ON THE PLANS TO BE SAVED AND PROTECTED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THESE TREE AND THEIR ROOT SYSTEMS FROM DAMAGE. THE CONTRACTOR SHALL ERECT TEMPORARY FENCE AROUND THESE TREES. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR TEMPORARY FENCE.

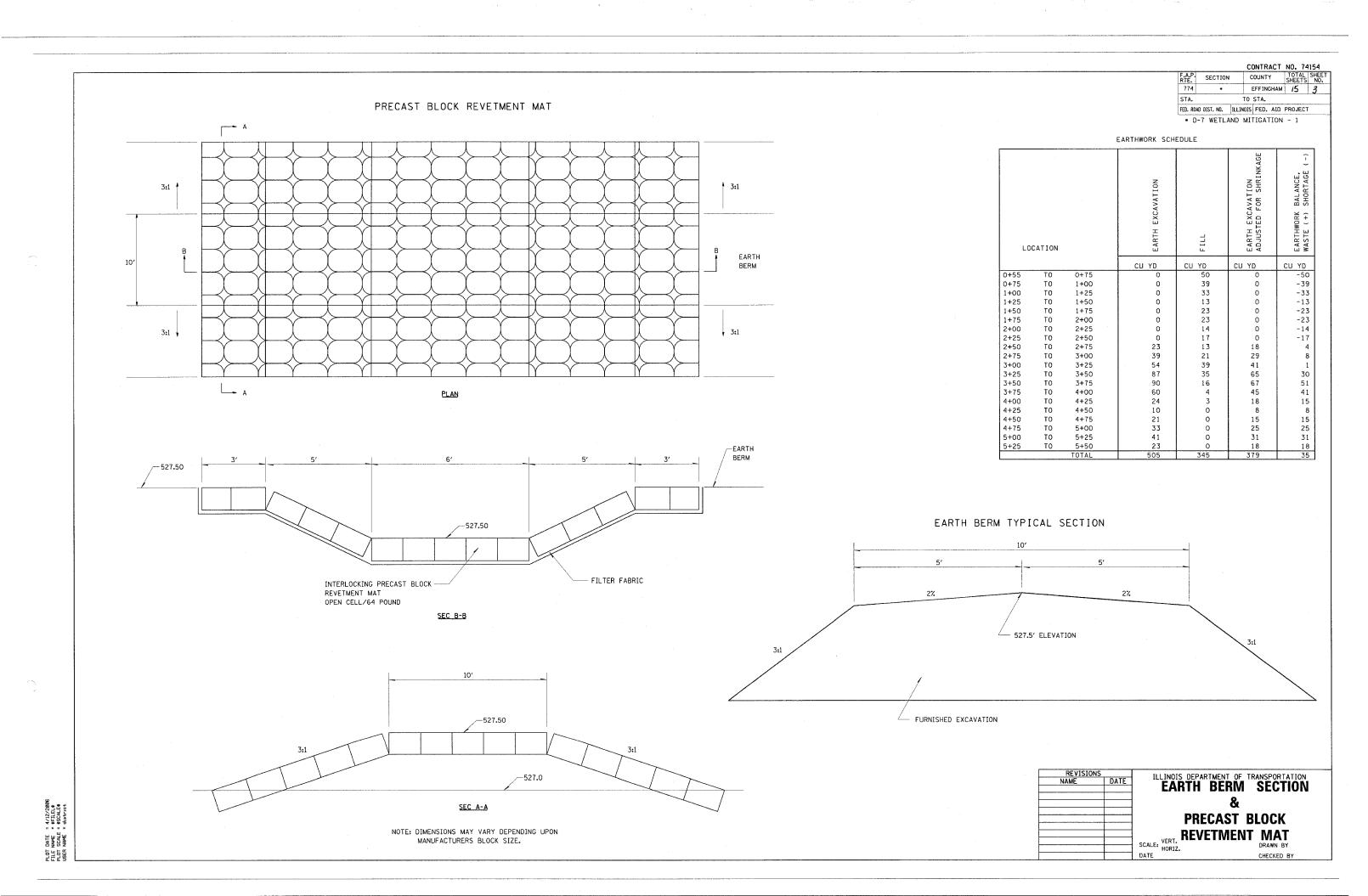
ALL PLANTING MATERIALS SHALL BE SUPPLIED FROM A NURSERY SPECIALIZING IN MATERIAL FOR HABITAT RESTORATION. THE 3 GALLON CONTAINER GROWN TREES SHALL BE A MINIMUM OF 4 FEET IN HEIGHT. THE TREES WILL BE PLANTED ON A GRID SYSTEM OF 25' CENTERS TO AID IN THE MOWING AND MONITORING OF THE PLANT MATERIAL. THE RESIDENT ENGINEER IN COORDINATION WITH THE DISTRICT ENVIRONMENTAL FECHNICIAN, EUGENE BECCUE WILL STAKE LOCATION OF THE TREE PLANTINGS. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE NUMBER OF LATHES TWO WEEKS PRIOR TO THE SCHEDULED TREE PLANTING.

| CONTRACT NO. 74154 |
F.A.P.	SECTION	COUNTY	TOTAL	SHEETS NO. 774
T74	•	EFFINGHAM	15	2
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID	PROJECT	
• D-7	WETLAND	MITIGATION - 1		

	SUMMARY OF QUANTITIES			CONS Y 077	TRUCTION TYPE	CODE
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN 100% STATE		
20101000	TEMPORARY FENCE	FOOT	1212	1212		
20200100	EARTH EXCAVATION	CU YD	505	505		
25002024	SEEDING, CLASS 4B (MODIFIED)	ACRE	4.6	4.6	2	
25100115	MULCH, METHOD 2	ACRE	4.6	4.6	:	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	460	460		
28000300	TEMPORARY DITCH CHECKS	EACH	6	6		
28000400	PERIMETER EROSION BARRIER	FOOT	150	150		
28500200	PRECAST BLOCK REVETMENT MAT	SQ YD	33	33		
67100100	MOBILIZATION	L SUM	1	1		
A2C021G3	TREE, CARYA LACINOSA (SHELLBARK HICKORY), CONTAINER GROWN, 3-GALLON	EACH	17	17		
A2C022G3	TREE, CARYA ILINOENSIS (PECAN), CONTAINER GROWN, 3-GALLON	EACH	17	17		
A2C040G3	TREE, PLATANUS OCCIDENTALIS (SYCAMORE), CONTAINER GROWN, 3-GALLON	EACH	17	17		
A2C050G3	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), CONTAINER GROWN, 3-GALLON	EACH	. 17	17		
A2C060G3	TREE, QUERCUS PALUSTRIS (PIN OAK), CONTAINER GROWN, 3-GALLON	EACH	. 17	17		
K0026700	TREE CARE	EACH	85	85		
K0026720	TREE INTERMEDIATE AND SHRUB WATERING	UNIT	85	85		
кооз8000	PERENNIAL PLANTS, WETLAND EMERGENT TYPE	UNIT	1.7	1.7		
K1005884	TREE TRUNK PREDATOR PROTECTION	EACH	85	85		
X0322856	WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL	GALLON	3. 24	3. 24		
X2010510	CLEARING AND GRUBBING	L SUM	1	· 1		
X2503000	MAINTENANCE MOWING	ACRE	6.8	6.8		1
				N.		
						1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -

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þ			SUMMARY	0F	QUANTITIES
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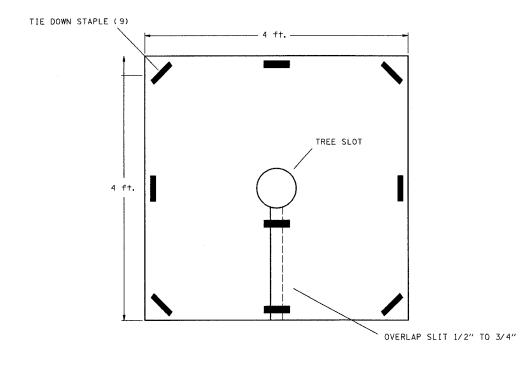


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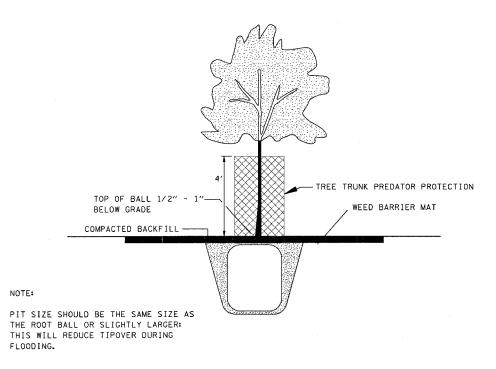
FED. ROAD DIST. NO. | ILLINOIS | FED. AID | PROJECT

* D-7 WETLAND MITIGATION - 1

TYPICAL WEED BARRIER MAT PLAN



TYPICAL CONTAINER TREE PLANTING PLAN



REVISIONS
NAME DATE

TREE PLANTING DETAIL

SCALE: VERT. DRAWN BY DATE

DATE

DATE

DATE

LLINOIS DEPARTMENT OF TRANSPORTATION

TREE PLANTING DETAIL

CHECKED BY

1019+98.29 774.24' (LT) 00.00+8 b±2 109 ----- TEMPORARY FENCE WETLAND AREA TO BE PROTECTED BUFFER ZONE PRECAST BLOCK REVETMENT MAT 1014+27.74 \(\frac{332.44 (LT)}{3} 1014+57.3 1022+42.19 \(\)\(\)308.89 (LT) 1014+75.39 329.77 1015+01.00 216.21 WETLAND AREA TO BE PROTECTED 1021+44.67 74.31' (LT) STA. 0+00.00= STA. 1017+35.23

CONTRACT NO. 74154

F.A.P. SECTION COUNTY TOTAL SHEET SHEET SHEET NO. 774

• EFFINGHAM 15 5

STA. TO STA.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID | PROJECT

* D-7 WETLAND MITIGATION - 1

TEMPPORARY FENCE

STATION	OFFSET
1+68. 5	205. 4
1+86. 8	240. 0
2+98. 1	373. 7
3+09. 5	382. 9
3+10.0	406.0
3+14.6	413.3
3+69.3	426.6
4+76. 2	406. 4
5+00. 5	396. 6
4+80.8	375.5
4+60.9	375.6
4+48.8	345.3
4+66.1	326. 6
4+51.3	304. 5
4+25.9	282.6
4+18. 3	287. 4
3+82. 9	261. 2
3+78.1	253.0
3+61.1	241.0
3+56.5	232. 9
3+50.7	228. 7
3+50.6	198.6
3+59.0	190.8
3+80.7	191.1
4+00.7	186. 5
4+31.2	188. 8
4+34.7	156.3
4+58.0	139.3
4+52.9	140.9
4+72.5	143.3
4+88.7	142.7
5+03.0	137.5
5+36.3	124.0
5+53.6	118.6
5+65. 4	94.6
6+13. 4	68.2

EARTH	BERM OF	FSETS
STATION	OFFS	SET
	LEFT	RIGHT
0+55.0	141.9	171.8
0+75.0	143.4	174.7
1+00.0	135.9	178.2
1+25.0	0	179.1
1+50.0	0	180.7
1+75.0	0	181.8
2+00.0	0	181.3
2+25.0	0	178.5
2+50.0	0	174.4
2+75.0	0	179.4
3+00.0	0	158.9
3+25.0	0	144
3+50.0	0	127.1
3+75.0	0	110.3
4+00.0	0	96.1

PRECAST BLOCK REVETMENT MAT
STATION 2+85 33 SQ YD

REVISIONS
NAME DATE

GENERAL PLAN

SCALE: VERT. DRAWN BY
DATE

DATE

DATE

DATE

DATE

REVISIONS

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRANSPORTATION

DRAWN BY
CHECKED BY

*LOT DATE = 4/12/2006
FILE NAME * #FILEL*
PLOT SCALE * #SCALE*

POI S±0 8+00,00 ----- TEMPORARY FENCE WETLAND AREA TO BE PROTECTED BUFFER ZONE SEEDING, CLASS 4B (MODIFIED) WETLAND AREA TO BE PROTECTED STA. 0+00.00= STA. 1017+35.23 00.00+0 bt2 T09

F.A.P. SECTION COUNTY TOTAL SHEETS NO.

STA. TO STA.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

• D-7 WETLAND MITIGATION - 1

SEEDING SCHEDULE

SEEDING, CLASS 4B (MODIFIED)	4.60	ACRE
MULCH, METHOD 2.	4.60	ACRE
TEMPORARY EROSION CONTROL SEEDING	460	LBS
	1	

* USE PROCEDURE 2

MAINTENANCE MOWING
6.8 ACRE

WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL 3.2 GALLON

REVISIONS
NAME DATE

SEEDING, MOWING,
SPRAYING DETAIL
AND SCHEDULES

SCALE, VERT.
DATE

DATE

DATE

SCALE, VERT.
DATE

DATE

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PLOT DATE = 4/12/2006 FILE NAME = \$FILEL\$ PLOT SCALE = \$SCALE\$

00.00+8 b±2 109 TREE PLACEMENT PERENNIAL PLANTS, WETLAND EMERGENT TYPE ----- TEMPORARY FENCE WETLAND AREA TO BE PROTECTED BUFFER ZONE WETLAND AREA TO BE PROTECTE STA. 0+00.00= STA. 1017+35.23 00.00+0 bt2 109

CONTRACT NO. 74154

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	F.A.P. RTE.	SECTION	V	COUNTY		TOTAL SHEETS	SHEET NO.
	774	•		EFFING	НАМ	15	7
STA.			-	TO STA.			
	FEO. RO	AD DIST. NO.	ILLIN	OIS FED.	AID	PROJECT	
	* D	-7 WETL	AND I	MITIGAT	ION	- 1	

TREE PLANTING SCHEDULE

TREE,	CARYA LACINOSA (SHELLBARK HICKORY) , CONTAINER GROWN, 3-GALLON	17	EACH
TREE,	CARYA ILINOENSIS (PECAN), CONTAINER GROWN, 3-GALLON	17	EACH
TREE,	PLATANUS OCCIDENTALIS (SYCAMORE), CONTAINER GROWN, 3-GALLON	17	EACH
TREE,	QUERCUS BICOLOR (SWAMP WHITE OAK), CONTAINER GROWN, 3-GALLON	17	EACH
TREE,	QUERCUS PALUSTRIS (PIN OAK), CONTAINER GROWN, 3-GALLON	17	EACH
	TOTAL	85	EACH
PLANT	AT 25 FOOT CENTERS		1

PERENNIAL PLANTS, WETLAND EMERGENT TYPE

	MARSH AREA						UNII
PLANT	ΑТ	5	FOOT	CENTERS			

TREE PLANTING

STATION	OFFSETS
0+90	114.7
0+91	101.1
1+06	122.8
1+10	63.4
1+37	120.6
1+53	56.5
1+58	113.2
1+73	91.0
2+18	61.7
2+28	22.0
2+37	42.3
	,

USE BUFFER ZONE EDGE FOR ALL OTHER TREE PLANTING LIMITS

PERENNAI	_ PLANTS
WETLAND EM	ERGENT TYPE
STATION	OFFSET
2+38	144.5
2+44	216.7
2+50	179.5
2+76	184.5
3+03	163.0
3+13	154.4
3+26	210.4
3+29	144.5
3+39	188.4
3+40	157 8

REVISIONS		TH INOTS	DEPARTMENT OF TRANSPORTATION
NAME	DATE	10013	DEFAILTMENT OF TRANSFORTATION
			PLANTING,
			TREE DETAILS,
			& SCHEDULES
		SCALE: VERT.	DRAWN BY
		DATE HORIZ.	באבטעבט פע

00.00+8 b<u>12 T09</u> ----- TEMPORARY FENCE WETLAND AREA TO BE PROTECTED CLEARING BUFFER ZONE AND GRUBBING TREES TO BE SAVED AND PROTECTED WETLAND AREA TO BE PROTECTER

1020-00

STA. 0+00.00= STA. 1017+35.23

00.00+0 bis 109

CONTRACT NO. 74154

	F.A.P. RTE.	SECTION	ı	COUNT	Υ	SHE	TAL ETS	SHEET NO.
	774	•		EFFIN	GHAM	1	5	8
-	STA.		Т	O STA.				
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* D-7 WETLAND MITIGATION - 1

TREE SCHEDULE

SAVE AND PROTECT				
BASEL STATION	TREE SIZE			
1+42.8	182.8	11"		
1+43.7	186.0	30″		
1+59.1	180.9	19"		
1+78.9	187.6	11"		
1+86.8	187.5	25″		
1+87.5	185.1	10"		
1+85.7	197. 9	20″		
1+86.4	200.6	19"		
1+88.0	197.7	28"		

REVISIONS NAME [ILLINOIS DEPARTI	MENT OF TRANSPORTATION
	CLEARING	& GRUBBING
	SCALE: VERT.	DRAWN BY
	DATE	CHECKED BY

PLOT DATE = 4/12/2006 FILE NAME = \$FILEL\$ PLOT SCALE = \$SCALE\$ USER NAME = district

P01 Std 8+00.00 ----- TEMPORARY FENCE WETLAND AREA TO BE PROTECTED BUFFER ZONE PERIMETER EROSION BARRIER TEMPORARY DITCH CHECK WETLAND AREA TO BE PROTECTED STA. 0+00.00= STA. 1017+35.23 1020+0 <u> 601 sta 0+00.00</u>

CONTRACT NO. 74154

F.A.P RTE.	SECTION	4 (COUNT	Y	TOTAL	SHEET NO.
774	•		EFFIN	SHAM	15	9
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FED. RO	DAD DIST. NO.	ILLINOIS	FED.	AID	PROJECT	1

* D-7 WETLAND MITIGATION - 1

EROSION CONTROL GENERAL NOTES

EROSION CONTROL MEASURES AT THE START OF CONSTRUCTION:

- 1. THE AREAS OF EXCAVATION AND EMBANKMENT PLACEMENT SHALL BE MANAGED FOR THE PURPOSES OF CONTROLLING EROSION WITHIN THE IMPROVEMENT AREA, REDUCING WATER FLOW BY TEMPORARY DIVERSION, MINIMIZING SILTATION AT THE RIGHT-OF-WAY LINE, AND ESTABLISHING VEGETATIVE COVER WHICH WILL BECOME PERMANENT VEGETATION AND ACT AS AN EROSION CONTROL BARRIER. WORK AT THE START OF CONSTRUCTION SHALL CONSIST OF THE FOLLOWING:
 - (a) AREAS OF EXISTING VEGETATION (WOODS AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED FOR PRESERVING AND SHALL BE PROTECTED FROM MOWING, BRUSH CUTTING, TREE REMOVAL, AND OTHER ACTIVITIES THAT WOULD BE DETRIMENTAL TO THEIR MAINTENANCE AND DEVELOPMENT.
 - (b) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
 - (c) BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE START OF CONSTRUCTION WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN CALENDAR DAYS.

EROSION CONTROL MEASURES DURING CONSTRUCTION:

- 1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED FROM DAMAGING EFFECTS OF CONSTRUCTION. THE CONTRACTOR SHALL NOT USE THIS AREA FOR PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
- (d) WITHIN THE CONSTRUCTION ZONE, CRITICAL AREAS WHICH HAVE A HIGH FLOW OF WATER, AS DETERMINED BY THE ENGINEER, SHALL REMAIN UNDISTURBED UNTIL CONTINUOUS OPERATIONS CAN ENSURE TIMELY COMPLETION OF WORK IN THESE AREAS TO MINIMIZE SOIL EROSION.
- (b) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN CALENDAR DAYS.

EROSION CONTROL MEASURES AFTER FINAL GRADING:

- 1. EXCAVATION AND EMBANKMENT AREAS SHALL BE PERMANENTLY SEEDED WHEN FINAL GRADE. EROSION CONTROL BLANKET SHALL BE PLACED ON ALL DISTURBED AREAS.
- (a) TEMPORARY EROSION CONTROL SYSTEMS SHALL REMAIN IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY WITH ALL PROPOSED TURF AREAS SEEDED AND A PROPER STAND ESTABLISHED.

EROSION CONTROL SCHEDULES PERIMETER EROSION BARRIER

150.00 FOOT TEMPORARY DITCH CHECK 1+00 1+50 2+00 2+50 3+00 3+50 EACH

REVISIO	NS	ILLINOIS DEDARTMEN	T OF TRANSPORTATION	
NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION		
		EROSION CO	NTROL DETAIL	
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