

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
757	(21) I-1	SCOTT	7	1
		ILLINOIS	CONTRACT NO. 72M51	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED IMPROVEMENTS

FAP 757 (IL 106)
SECTION (21) I-1
PROJECT : STATE
REPLACE FIELD TILE
SCOTT CO.

D-96-004-21



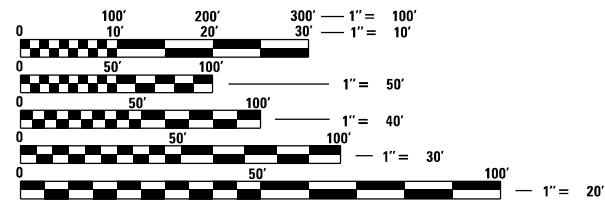
IL 106 (2019)
ADT = 650
SU = 30
MU = 40

C-96-017-21

R 13 W



T 14 N



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
OR 811

PROJECT ENGINEER : MIKE IRWIN - (217)524-7765
PROJECT MANAGER : TIM SHARP - (217)524-9160

PROJECT LOCATION
STA. 712+05

CONTRACT NO. 72M51

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 8, 2020

[Signature]
REGION FOUR ENGINEER

January 29, 2021
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

January 29, 2021
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS




INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	INDEX OF SHEETS, STANDARDS, GENERAL NOTES & SIGNATURE
3.	SUMMARY OF QUANTITIES
4.	PROJECT LOCATION MAP
5.	PLANS
6.	FIELD TILE REPLACEMENT DETAILS
7.	CONCRETE COLLAR AND CULVERT EXTENSION DETAILS

STANDARDS

STANDARD NO.	DESCRIPTION
442201-03	CLASS C AND D PATCHES
602301-04	INLET - TYPE A
604001-05	FRAME AND LIDS TYPE 1
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY FROM EDGE OF PAVEMENT.
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM EDGE OF PAVEMENT.
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY.
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEED \geq 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATION
701901-08	TRAFFIC CONTROL DEVICES.

MIXTURE REQUIREMENTS	
LOCATION:	IL 106
MIXTURE USE(S):	HMA PATCHING
PG:	64-22
DESIGN AIR VOIDS:	4.0% @ N50
MIXTURE COMPOSITION:	IL-19.0
FRICTION AGGREGATE:	N/A
QUALITY MANAGEMENT:	QC/QA
MIXTURE WEIGHT	112 lb/sy/in

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6	
EXAMINED	December 18 20 20
	ENGINEER OF OPERATIONS
EXAMINED	December 18 20 20
	ENGINEER OF PROJECT IMPLEMENTATION
EXAMINED	December 18 20 20
	ENGINEER OF PROGRAM DEVELOPMENT

FILE NAME =	USER NAME = SHARPTD	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STANDARDS GENERAL NOTES, SIGNATURES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\CONTRMAINT_CAD\72M51 - FAP 757 (11 108) - Scott Co. - Field Tile Replacement\PLANS\72M51-DRAWN2-gennotes.dwg	DRAWN - _____	REVISOR - _____	REVISOR - _____			757	(21) I-1	SCOTT	7	2	
Default	PLOT SCALE = 40.0000' / in.	CHECKED - _____	REVISOR - _____			CONTRACT NO. 72M51					
	PLOT DATE = 12/10/2020	DATE - _____	REVISOR - _____			ILLINOIS FED. AID PROJECT					

0-02175-6022
 100% STATE
 SCOTT
 ROADWAY
 0044
 RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20800150	TRENCH BACKFILL	CU YD	60	60
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	50	50
44200204	PAVEMENT PATCHING, TYPE III, 17 INCH	SQ YD	48	48
50800105	REINFORCEMENT BARS	POUND	31	31
54002020	EXPANSION BOLTS 3/4 INCH	EACH	4	4
54248510	CONCRETE COLLAR	CU YD	0.3	0.3
61101026	STORM SEWERS PROTECTED, CLASS A, 24"	FOOT	65	65
60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	1	1
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1

FILE NAME =	USER NAME = SHARPTD	DESIGNED - _____	REVISED - _____
S:\CONTRMNT_CAD\72M51 - FAP 757 (11 108)	Scott Co, - Field Tile Replacement\PLANS\72M51-000.dgn	DRAWN - _____	REVISED - _____
Default	PLOT SCALE = 40.0000' / in.	CHECKED - _____	REVISED - _____
	PLOT DATE = 12/10/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
757	(21) I-1	SCOTT	7	3
CONTRACT NO. 72M51			ILLINOIS FED. AID PROJECT	

PROJECT LOCATION
 STA. 712+05



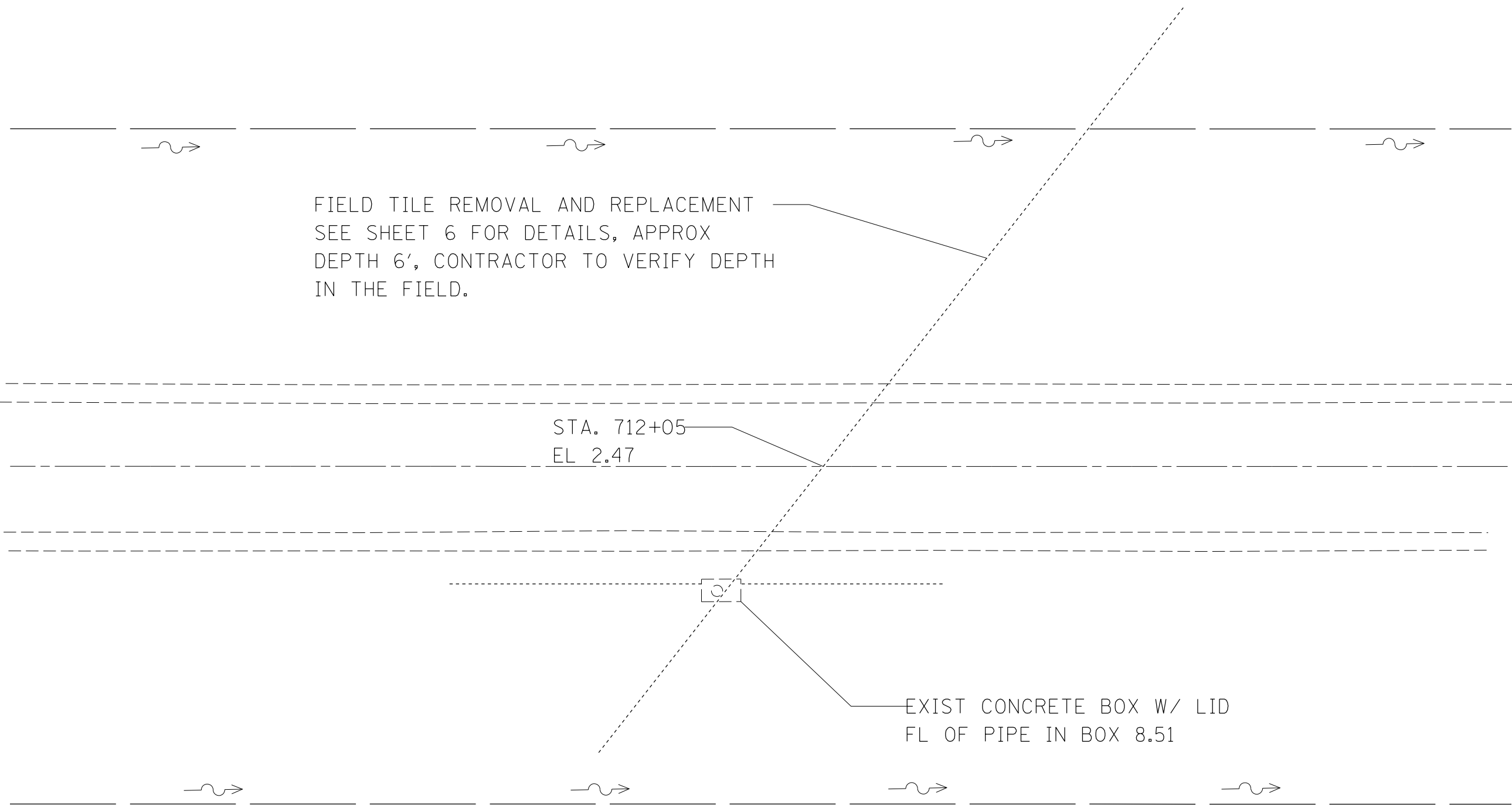
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	PLOT DATE = 12/10/2020	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LOCATION MAP

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
757	(21) I-1	SCOTT	7	4
CONTRACT NO. 72M51			ILLINOIS FED. AID PROJECT	



FIELD TILE REMOVAL AND REPLACEMENT
 SEE SHEET 6 FOR DETAILS, APPROX
 DEPTH 6', CONTRACTOR TO VERIFY DEPTH
 IN THE FIELD.

STA. 712+05
 EL 2.47

EXIST CONCRETE BOX W/ LID
 FL OF PIPE IN BOX 8.51

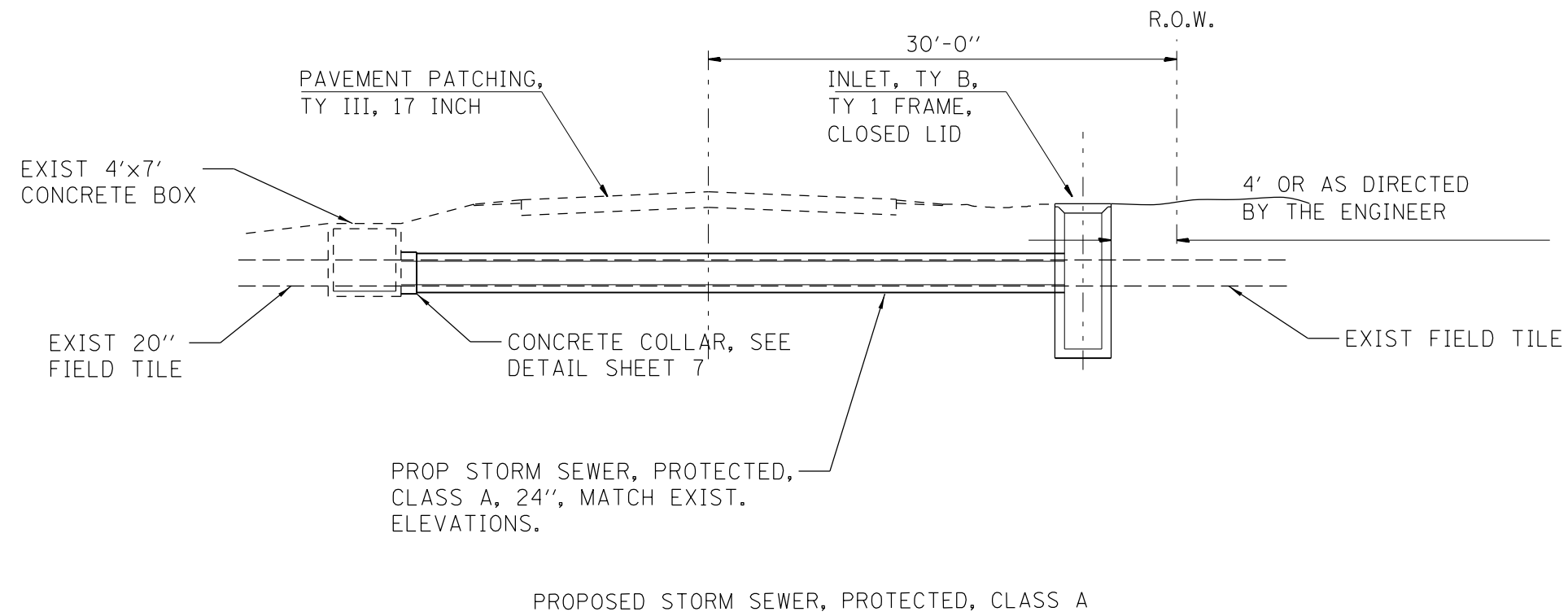
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DRAWN - _____	CHECKED - _____	DATE - _____	REVISED - _____
PLOT SCALE = 20.0000' / in.	PLOT DATE = 12/10/2020		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP
 EXISTING PLAN**

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
757	(21) I-1	SCOTT	7	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M51	



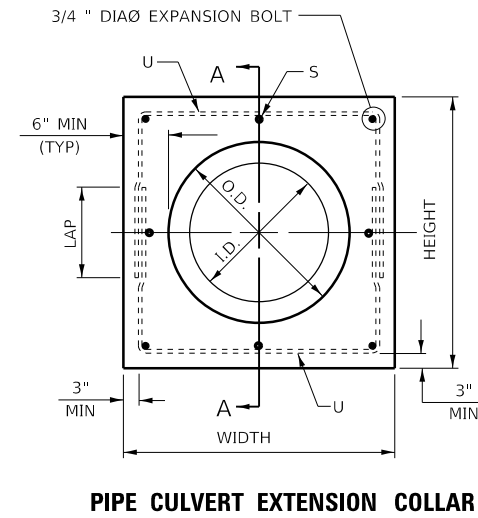
GENERAL NOTES

1. FIELD TILE SHALL BE REPLACED IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS. THE COST PER CONTRACT UNIT PRICE OF ITEMS INCLUDED IN THIS CONTRACT SHALL BE PAID FOR AS STATED IN SECTION 611 OF THE STANDARD SPECIFICATIONS. IF THE CONTRACT UNIT PRICE IS NOT INCLUDED IN THIS CONTRACT, PAYMENT FOR THIS WORK WILL BE IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

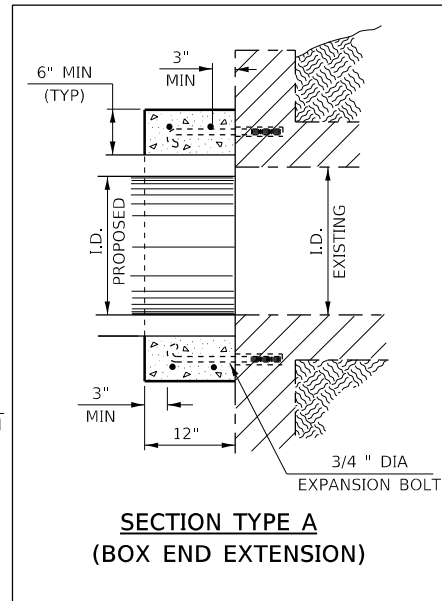
LOCATION	STATION	ROAD		AREA SQ YD	PAVT PATCH, TY III, 17 INCH SQ YD
		LENGTH (FT)	WIDTH (FT)		
IL 106	712+05 LT	18.00	12.00	24.00	24.00
	712+05 RT	18.00	12.00	24.00	24.00
TOTAL:				48.00	48.00

MODEL: OLD, DETAIL
 FILE NAME: SUBCONTRACT_CADD72M51 - FAP 757 (II 206) - Scott Co. - Field Tile Replacement(PLANS)72M51-INT-6-detailed.dgn

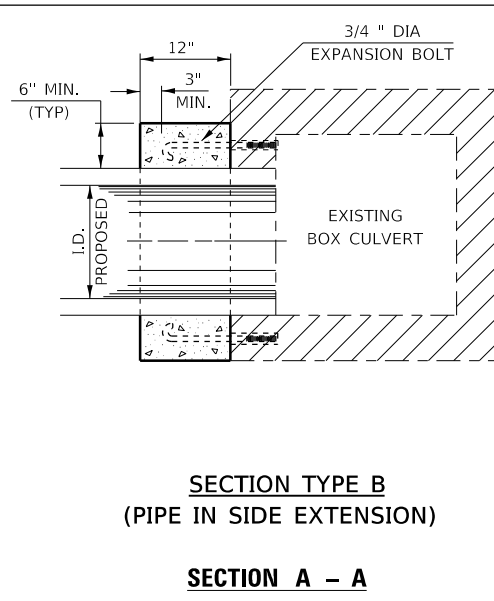
USER NAME = SHARPTD	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIELD TILE REPLACEMENT DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 15.0000' / in.	DRAWN -	REVISED -				757	(21) I-1	SCOTT	7	6	
PLOT DATE = 12/10/2020	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 72M51	
	DATE -	REVISED -								ILLINOIS FED. AID PROJECT	



PIPE CULVERT EXTENSION COLLAR

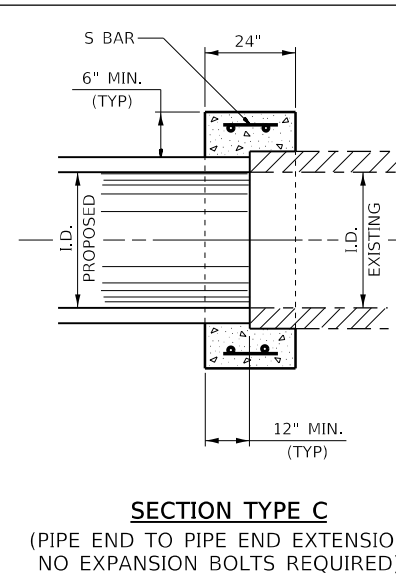


**SECTION TYPE A
(BOX END EXTENSION)**

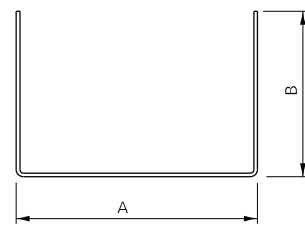
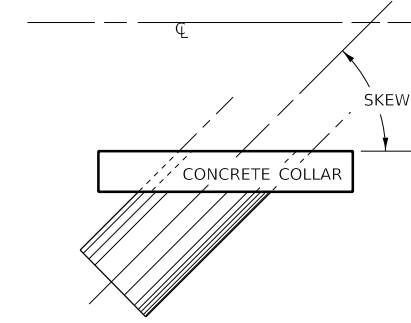


**SECTION TYPE B
(PIPE IN SIDE EXTENSION)**

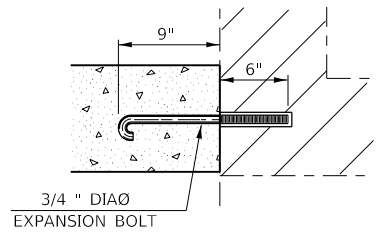
SECTION A - A



**SECTION TYPE C
(PIPE END TO PIPE END EXTENSION
NO EXPANSION BOLTS REQUIRED)**



#4 U - BAR

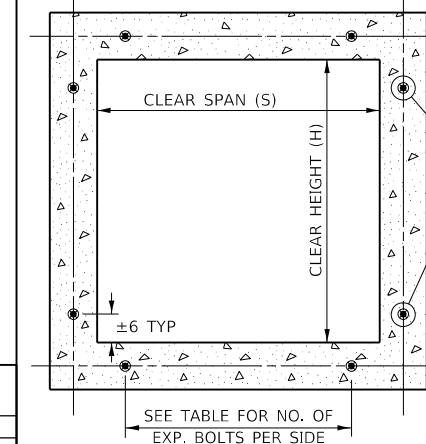


EXPANSION BOLT DETAIL

NOTES:

1. EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" DIAØ HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE. MINIMUM CERTIFIED PROOF LOAD - 4,080 LBS.
2. USE MINIMUM OF 1 (ONE) EXPANSION BOLT AT EACH CORNER.

BOX CULVERT POURED IN PLACE EXTENSION



SECTION THRU BARREL

EXPANSION BOLTS REQUIRED FOR CULVERT EXTENSIONS

H OR S	NO. EXPANSION BOLTS REQ'D. PER SIDE			
	EXTENSION ≤ 15FT		EXTENSION > 15FT	
	NO.	SPACING	NO.	SPACING
24"	*	*	*	*
30"	2	18"	2	18"
36"	2	24"	2	24"
48"	3	18"	3	18"
60"	4	16"	3	24"
72"	5	15"	4	20"
84"	5	18"	4	24"
96"	6	17"	5	21"
108"	6	19"	5	24"
120"	7	18"	6	21"
132"	8	17"	6	24"
144"	8	19"	7	22"

NOTE: NUMBER OF EXPANSION BOLTS IN TABLE BASED ON NON-SKEWED CULVERTS.

* USE MINIMUM 1 (ONE) EXPANSION BOLT IN EACH CORNER.

STATION	SECTION TYPE	SKEW	EXISTING CULVERT		PROPOSED CULVERT		COLLAR		REINFORCEMENT BARS							EXPANSION BOLTS 3/4" EACH	CLASS S1 CONCRETE COLLAR YD3		
			SIZE	I. D.	O. D.	HEIGHT	WIDTH	S BAR			U BAR								
712+05	A	45	20	24	30	42	42	4	#5	20"	4	#5	36"	27"	18"	90"	31.3	4	0.3

MODEL: D:\p\h\c\c\CONTRACT\72M51 - FAP 757 (II 206) - Scott Co. - Field Title Replacement\PLANS\72M51-INT-2-collar.dwg

600-COLLAR.DGN

USER NAME = SHARPTD	DESIGNED - RLD	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - CAD	REVISED -
PLOT DATE = 12/10/2020	CHECKED - RLD	REVISED -
	DATE - 10/06/99	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE COLLAR AND
CULVERT EXTENSION DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
757	(21) I-1	SCOTT	7	7
CONTRACT NO. 72M51				
ILLINOIS FED. AID PROJECT				