

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

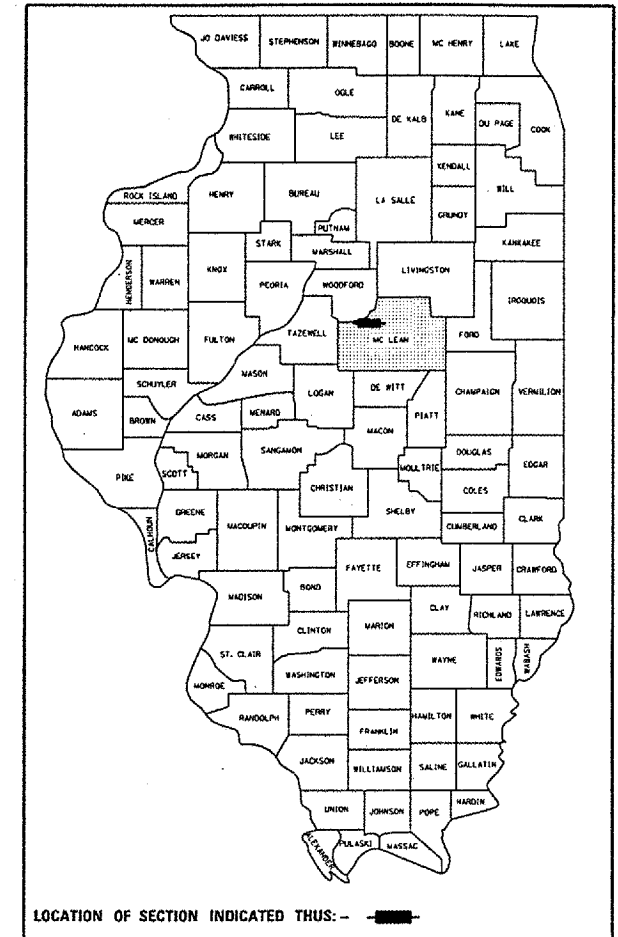
PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 74
SECTION 57-18WS-2

MCLEAN COUNTY

C-95-084-06

D-95-084-06



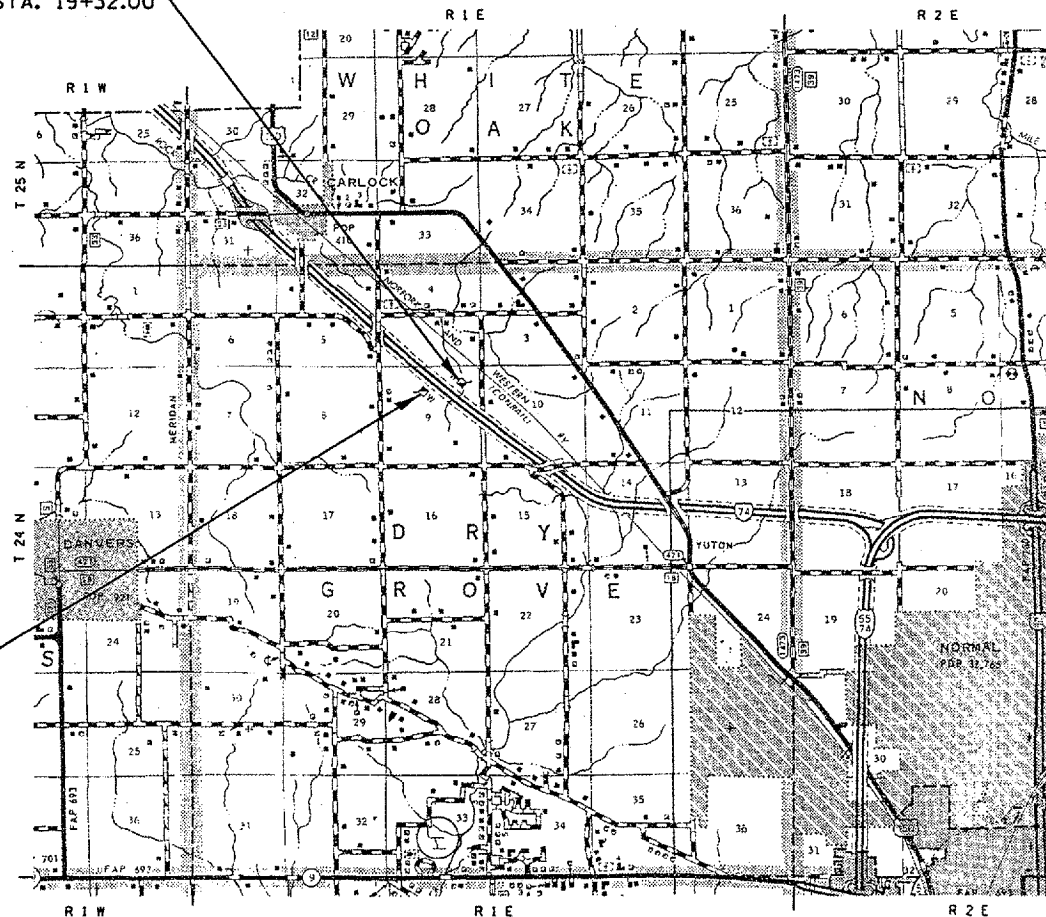
LOCATION OF SECTION INDICATED THUS: —■—

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

WESTBOUND WEIGH STATION
STA. 15+45.00 TO STA. 19+32.00

WEIGH STATION REPAIRS AT CARLOCK

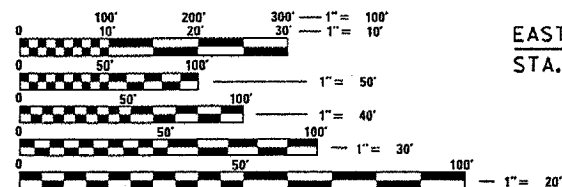
EASTBOUND WEIGH STATION
STA. 13+05.00 TO STA. 19+45.00



CURRENT TRAFFIC DATA I-74 WEIGH STATION NEAR CARLOCK

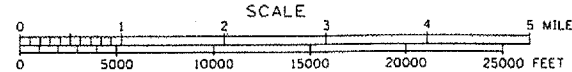
CURRENT ADT	=	22,600
20 YR ADT	=	29,000
PU & PC %	=	86.6
SU %	=	2.1
MU %	=	3.9

DESIGN DESIGNATION INTERSTATE



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



TOTAL LENGTH OF SECTION & PROJECT = 1027.000 FEET = 0.195 MILES
NET LENGTH OF SECTION & PROJECT = 1027.000 FEET = 0.195 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *Dec 7 2006*

[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER

February 2, 2007
Eric E. Harms
ENGINEER OF DESIGN AND ENVIRONMENT

February 2, 2007
Milton R. Sess
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CONTRACT NO. 70569

PROJECT ENGINEER: TIM BRANDENBURG
SQUAD LEADER: JEFF SHERER
DESIGNER: JEFF SHERER

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	2

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	INDEX OF SHEETS / HIGHWAY STANDARDS
3	GENERAL NOTES
4	SUMMARY OF QUANTITIES
5	EXISTING & PROPOSED TYPICAL CROSS SECTION - WEIGH STATION RAMPS
6	EXISTING & PROPOSED TYPICAL CROSS SECTION - WEIGH BRIDGE APPROACH
7	SCHEDULES OF QUANTITIES
8	ALIGNMENT LAYOUT
9	SURVEY CROSS-TIES & BENCHMARKS
10-11	REMOVAL DETAILS
12-13	PLAN VIEW
14-20	SCALE PLANS
21	DETAIL OF APPROACH SLAB REMOVAL
22	BRIDGE APPROACH PAVEMENT SPECIAL
23-24	DETAIL OF VIDEO CAMERA DETECTION SYSTEM
25	LIGHT POLE FOUNDATION
26	WEIGH STATION RAMP CLOSURE DETAIL

HIGHWAY STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-06	PAVEMENT JOINTS
420101-03	7.2 m (24') JOINTED PCC PAVEMENT
421001-01	BAR REINFORCEMENT FOR CRC PAVEMENT
420701-01	PAVEMENT FABRIC
442101-06	CLASS B PATCHES
701101-01	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-01	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
702001-06	TRAFFIC CONTROL DEVICES

PLOT DATE : 12/7/2006
 PLOT SCALE : 20,7667 / IN.
 USER NAME : phillips

ILLINOIS DEPARTMENT OF TRANSPORTATION	
INDEX OF SHEETS/HIGHWAY STANDARDS	
F.A.I. ROUTE 74	
SECTION 57-18WS-2	
MCLEAN COUNTY	
SCALE: N/A	DRAWN BY: CADD
DATE: 07-31-06	CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	3

GENERAL NOTES

G. N. -100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G. N. -105.07

EXISTING STATE-OWNED AND MAINTAINED UTILITY LINES ARE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL NOTIFY THE DISTRICT OPERATIONS ENGINEER TWO WEEKS PRIOR TO COMMENCING ANY EXCAVATION IN THE VICINITY OF THESE LINES. THE STATE WILL THEN LOCATE AND MARK THE HORIZONTAL LOCATIONS OF THE LINES AND PROVIDE ANY AVAILABLE INFORMATION AS TO THEIR DEPTH. SHOULD ANY OF THE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATION, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF THE ENGINEER AND AT NO COST TO THE STATE.

ALSO THERE MAY BE UTILITIES PRESENT WHICH WERE INSTALLED BY THE STATE BUT ARE MAINTAINED BY OTHERS (CITY, TOWN, ETC.) THE APPROXIMATE LOCATIONS OF THESE LINES ARE ALSO SHOWN ON THE PLANS ALONG WITH THE NAME OF THE MAINTAINING AGENCY. THE CONTRACTOR SHALL COORDINATE THE LOCATING OF THESE LINES WITH THE LOCAL AGENCY PRIOR TO COMMENCING ANY EXCAVATION OR BORING IN THEIR VICINITY. SHOULD THESE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF, AND AT NO COST TO, THE LOCAL AGENCY AND THE STATE.

G. N. -440B

THE EXISTING TIE BARS BETWEEN THE EXISTING PAVEMENT AND EXISTING MEDIANS, GUTTERS AND/OR COMBINATION CURB AND GUTTERS THAT ARE FOUND SUITABLE FOR REUSE SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY EXISTING TIE BARS THAT ARE FOUND UNSUITABLE TO BE INCORPORATED INTO THE PROPOSED CONSTRUCTION DUE TO EXCESSIVE RUSTING OR DISTRESS SHALL BE REMOVED FLUSH WITH THE FACE OF THE EXISTING CONCRETE AND DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS REMOVAL PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G. N. -442B -- PATCHING SCHEDULES

THE PATCHING SCHEDULES INCLUDED IN THE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF COMPLETION OF THE PLANS FOR LETTING. VARIATIONS IN LOCATION AND SIZES OF BOTH FULL-DEPTH AND PARTIAL-DEPTH PATCHES MAY OCCUR.

G. N. -1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

PLOT DATE: 12/7/2006
 PLOT SCALE: 1/8"=1'-0"
 USER NAME: philip

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

F.A.I. ROUTE 74
 SECTION 57-18WS-2
 MCLEAN COUNTY

SCALE: N/A
 DATE: 08-XX-06

DRAWN BY: CADD
 CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	4

SUMMARY OF QUANTITIES

WB WEIGH SCALES
STA. 15+45.00 TO
STA. 19+32.00
100% STATE
Y222

EB WEIGH SCALES
STA. 13+05.00 TO
STA. 19+45.00
100% STATE
Y222

CONSTRUCTION TYPE CODE:

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
35100100	AGGREGATE BASE COURSE, TYPE A	TON	143.0	54.0	89.0
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	868.0	325.0	543.0
42001300	PROTECTIVE COAT	SQ YD	222.0	111.0	111.0
42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	160.0	80.0	80.0
44000100	PAVEMENT REMOVAL	SQ YD	814.0	298.0	516.0
44000700	APPROACH SLAB REMOVAL	SQ YD	216.0	108.0	108.0
44201007	CLASS B PATCHES, TYPE II, 13 INCH	SQ YD	27.0	0.0	27.0
44213200	SAW CUTS	FOOT	88.0	0.0	88.0
50102400	CONCRETE REMOVAL	CU YD	15.4	7.7	7.7
50104800	REMOVAL OF EXISTING CONCRETE DECK	L SUM	1.0	0.5	0.5
50300225	CONCRETE STRUCTURES	CU YD	15.4	7.7	7.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	30.0	15.0	15.0
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	7,700.0	3,850.0	3,850.0
50600300	CLEANING AND PAINTING STEEL BRIDGE	L SUM	1.0	0.5	0.5
50606400	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	L SUM	1.0	0.5	0.5
50800105	REINFORCEMENT BARS	POUND	2,060.0	1,030.0	1,030.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	10,730.0	5,365.0	5,365.0
67100100	MOBILIZATION	L SUM	1.0	0.5	0.5
* 81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	3,265.0	0.0	3,265.0
* 81021550	CONDUIT, AUGERED 2" DIA., PVC	FOOT	100.0	0.0	100.0
* 81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	1.0	0.0	1.0
* 81400100	HANDHOLE	EACH	1.0	0.0	1.0
* 81702100	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12	FOOT	1,662.0	0.0	1,662.0
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1,653.0	0.0	1,653.0
* 83001100	LIGHT POLE, ALUMINUM, 35 FT. M.H., 4 FT. DAVIT ARM	EACH	1.0	0.0	1.0
* 83600355	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8" X 6'	EACH	1.0	0.0	1.0
* 83800650	BREAKAWAY DEVICE, COUPLING, WITH STAINLESS STEEL SCREEN	EACH	4.0	0.0	4.0
* 87100110	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 6F	FOOT	1,662.0	0.0	1,662.0
* 87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3 C	FOOT	1,703.0	0.0	1,703.0
* X0324265	JACK REMOVE AND REPLACE LOAD CELLS	L SUM	1.0	0.5	0.5
* XX003165	VIDEO CAMERA DETECTOR SYSTEM	EACH	1.0	0.0	1.0
Z0017202	DOWEL BARS 1 1/2"	EACH	40.0	0.0	40.0
* SPECIALTY ITEMS					

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.I. ROUTE 74
SECTION 57-18WS-2
MCLEAN COUNTY

SCALE: N/A
DATE: 08-XX-06

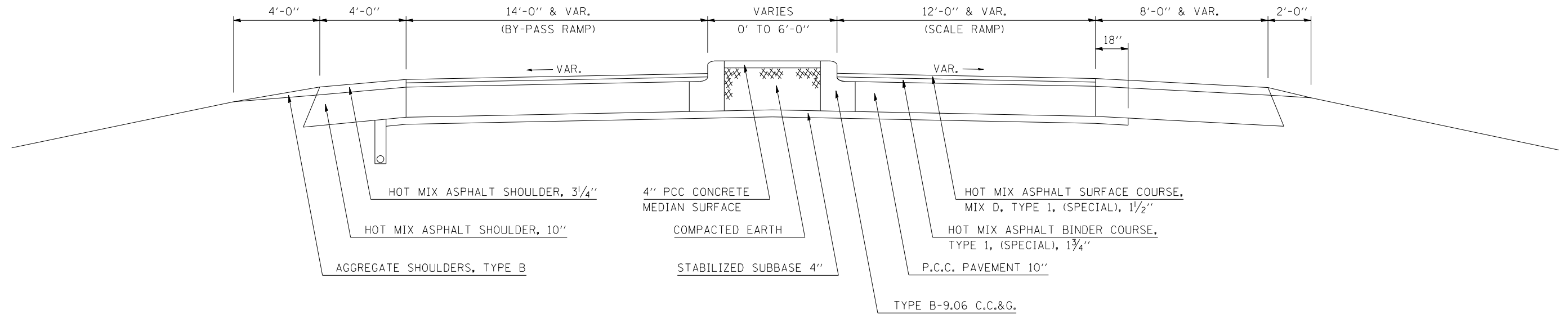
DRAWN BY: CADD
CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	5

EXISTING TYPICAL CROSS SECTION

WEIGH STATION - RAMPS

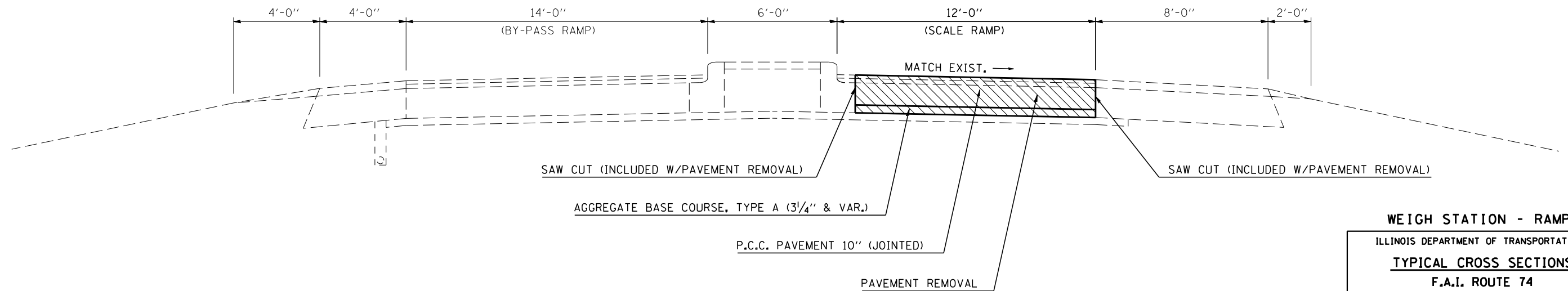
STATION 15+45.00 TO STATION 17+21.50 (WB WEIGH STATION)
 STATION 18+84.75 TO STATION 19+32.00 (WB WEIGH STATION)
 STATION 13+05.00 TO STATION 17+22.45 (EB WEIGH STATION)
 STATION 19+05.52 TO STATION 19+45.00 (EB WEIGH STATION)



1 PROPOSED TYPICAL CROSS SECTION

WEIGH STATION - RAMPS

① STATION 15+45.00 TO STATION 17+31.50 (WB WEIGH STATION) ②
 ② STATION 18+74.75 TO STATION 19+32.00 (WB WEIGH STATION)
 STATION 13+75.00 TO STATION 17+32.45 (EB WEIGH STATION) ②
 ② STATION 18+95.52 TO STATION 19+45.00 (EB WEIGH STATION)



WEIGH STATION - RAMPS

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL CROSS SECTIONS
 F.A.I. ROUTE 74
 SECTION 57-18WS-2
 MCLEAN COUNTY

SCALE: N/A
 DATE: 08-23-06

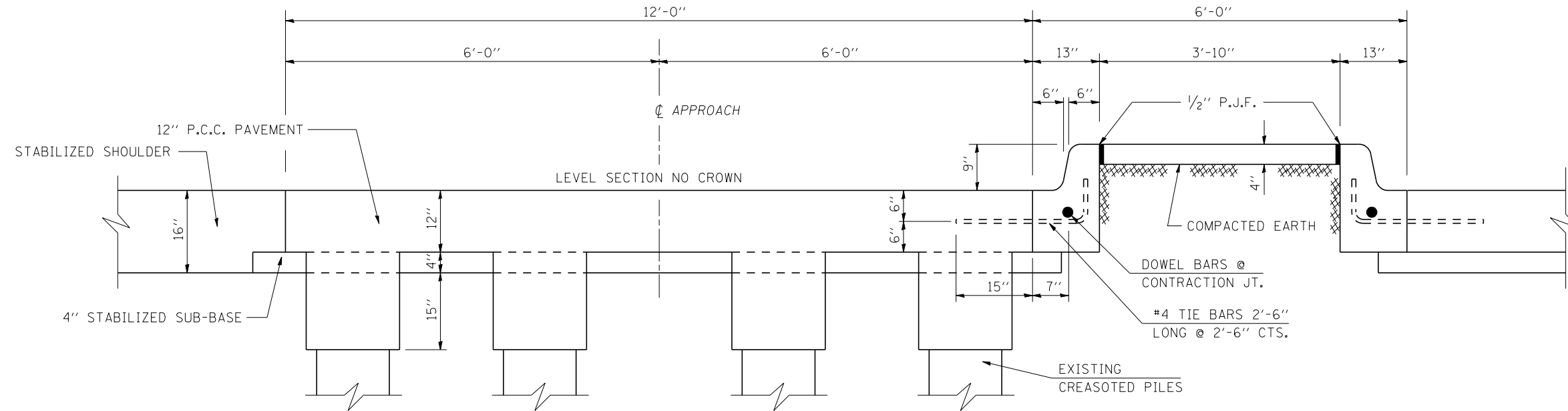
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	6

EXISTING TYPICAL CROSS SECTION

THROUGH WEIGH BRIDGE APPROACH

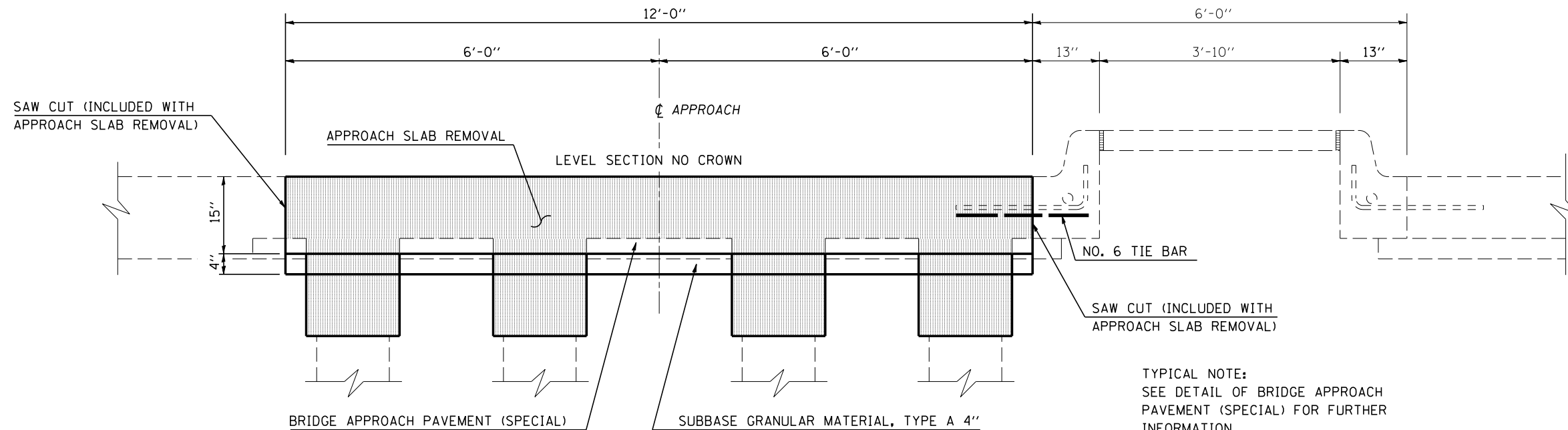
STATION 17+21.50 TO STATION 17+61.50 (WB WEIGH STATION)
 STATION 18+44.75 TO STATION 18+84.75 (WB WEIGH STATION)
 STATION 17+22.45 TO STATION 17+62.45 (EB WEIGH STATION)
 STATION 18+65.52 TO STATION 19+05.52 (EB WEIGH STATION)



2 PROPOSED TYPICAL CROSS SECTION

THROUGH WEIGH BRIDGE APPROACH

① STATION 17+31.50 TO STATION 17+61.50 (WB WEIGH STATION) ①
 STATION 18+44.75 TO STATION 18+74.75 (WB WEIGH STATION) ①
 ① STATION 17+32.45 TO STATION 17+62.45 (EB WEIGH STATION) ①
 STATION 18+65.52 TO STATION 18+95.52 (EB WEIGH STATION) ①



TYPICAL NOTE:
 SEE DETAIL OF BRIDGE APPROACH
 PAVEMENT (SPECIAL) FOR FURTHER
 INFORMATION.

WEIGH BRIDGE APPROACH

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

F.A.I. ROUTE 74
 SECTION 57-18WS-2
 MCLEAN COUNTY

SCALE: N/A
 DATE: 08-23-06

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	7

SCHEDULES OF QUANTITIES

35100100 AGGREGATE BASE COURSE, TYPE A

STATION	TO	STATION	TON
WB 15+45.00		17+34.50	41.0
WB 18+71.75		19+32.00	13.0
EB 13+75.00		17+35.45	78.0
EB 18+92.52		19+45.00	11.0
TOTAL = 143.0			

42000501 PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)

STATION	TO	STATION	SQ YD
WB 15+45.00		17+31.50	249.0
WB 18+74.75		19+32.00	76.0
EB 13+75.00		17+32.45	477.0
EB 18+95.52		19+45.00	66.0
TOTAL = 868.0			

42001400 BRIDGE APPROACH PAVEMENT (SPECIAL)

STATION	TO	STATION	SQ YD
WB 17+61.50		17+31.50	40.0
WB 18+44.75		18+74.75	40.0
EB 18+65.52		18+95.52	40.0
EB 17+62.45		17+32.45	40.0
TOTAL = 160.0			

44000100 PAVEMENT REMOVAL

STATION	TO	STATION	SQ YD
WB 15+45.00		17+21.50	235.0
WB 18+84.75		19+32.00	63.0
EB 13+75.00		17+22.45	463.0
EB 19+05.52		19+45.00	53.0
TOTAL = 814.0			

44000700 APPROACH SLAB REMOVAL

STATION	TO	STATION	SQ YD
WB 17+21.50		17+61.50	54.0
WB 18+44.75		18+84.75	54.0
EB 17+22.45		17+62.45	54.0
EB 18+65.22		19+05.32	54.0
TOTAL = 216.0			

44201007 CLASS B PATCH, TYPE II, 13"

STATION	TO	STATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)	SAW CUTS 44213200 (FT)	DOWELL BARS Z0017202 (EACH)
EB 13+05.00	EB 13+15.00		10.0	12.0	13.3	44.0	20.0
EB 13+45.00	EB 13+55.00		10.0	12.0	13.3	44.0	20.0
TOTAL =					26.7	88.0	40.0
USE =					27.0	88.0	40.0

PLAN NOTES

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

THE CONSTRUCTION SHALL BE DONE IN STAGES. THROUGHOUT THE CONSTRUCTION PROCESS, ONLY ONE WEIGH STATION MAY BE COMPLETELY CLOSED.

AT NO TIME SHALL THE CONTRACTOR BE ALLOWED TO WORK ON BOTH LOCATIONS AT THE SAME TIME. ALL WORK MUST BE COMPLETE AND THE SCALES OPERATIONAL PRIOR TO THE CONTRACTOR BEGINNING WORK AT THE SECOND LOCATION.

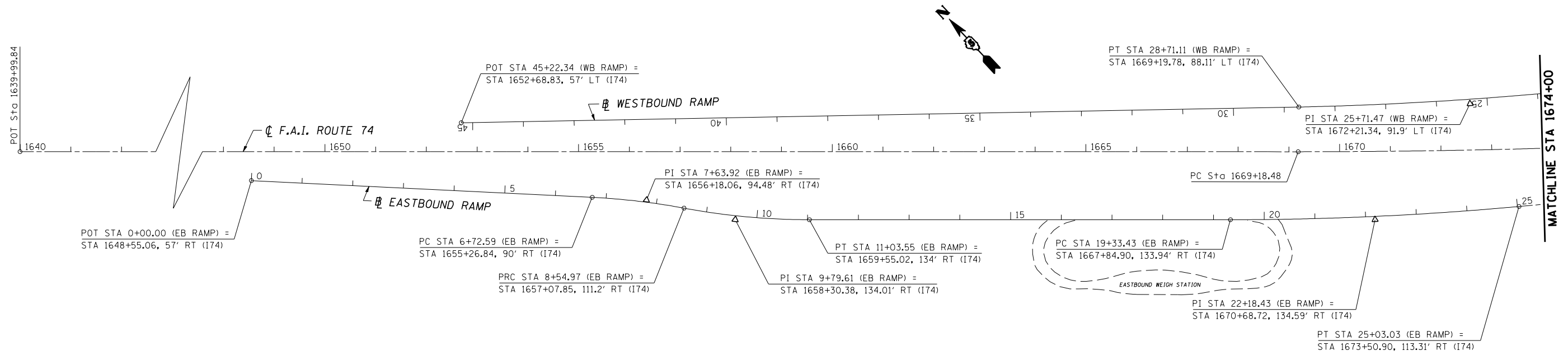
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 USER NAME = philippe_j

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULES OF QUANTITIES
 F.A.I. ROUTE 74
 SECTION 57-18WS-2
 MCLEAN COUNTY

SCALE: N/A
DATE: 08-23-06

DRAWN BY: CADD
CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	8
STA. 1639+99.84		TO STA. 1710+00.22		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



MAINLINE

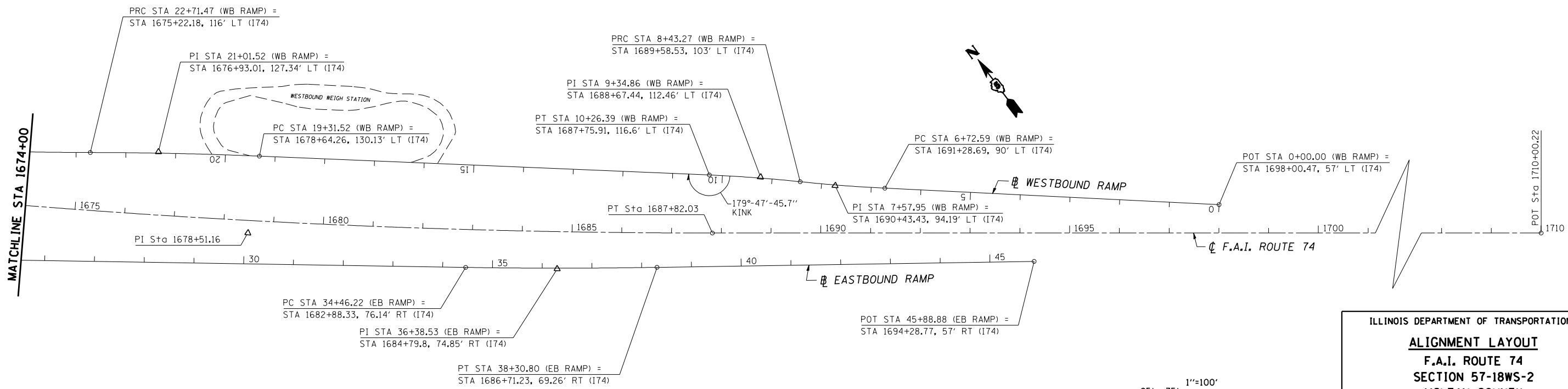
EXIST. CURVE DATA
 PI STA. = 1678+51.16
 $\Delta = 6^\circ 11' 07''$ (LT)
 $D = 0^\circ 19' 55''$
 $R = 17,262.25'$
 $T = 932.68'$
 $L = 1,863.55'$
 $E = 25.18'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 P.C. STA. = 1669+18.48
 P.T. STA. = 1687+82.03

EASTBOUND RAMP

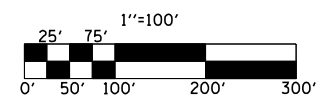
EXIST. CURVE DATA PI STA. = 7+63.92 $\Delta = 7^\circ 44' 00''$ (RT) $D = 4^\circ 14' 25''$ $R = 1,351.26'$ $T = 91.33'$ $L = 182.38'$ $E = 3.08'$ $e = \text{-----}$ $T.R. = \text{-----}$ $S.E. RUN = \text{-----}$ P.C. STA. = 6+72.59 P.T. STA. = 8+54.97	EXIST. CURVE DATA PI STA. = 9+79.61 $\Delta = 10^\circ 33' 00''$ (LT) $D = 4^\circ 14' 39''$ $R = 1,349.98'$ $T = 124.64'$ $L = 248.58'$ $E = 5.74'$ $e = \text{-----}$ $T.R. = \text{-----}$ $S.E. RUN = \text{-----}$ P.C. STA. = 8+54.97 P.T. STA. = 11+03.55	EXIST. CURVE DATA PI STA. = 22+18.43 $\Delta = 5^\circ 15' 00''$ (LT) $D = 0^\circ 55' 18''$ $R = 6,216.33'$ $T = 285.00'$ $L = 569.60'$ $E = 6.53'$ $e = \text{-----}$ $T.R. = \text{-----}$ $S.E. RUN = \text{-----}$ P.C. STA. = 19+33.43 P.T. STA. = 25+03.03	EXIST. CURVE DATA PI STA. = 36+38.53 $\Delta = 1^\circ 55' 00''$ (LT) $D = 0^\circ 29' 54''$ $R = 11,496.55'$ $T = 192.31'$ $L = 384.58'$ $E = 1.61'$ $e = \text{-----}$ $T.R. = \text{-----}$ $S.E. RUN = \text{-----}$ P.C. STA. = 34+46.22 P.T. STA. = 38+30.80
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WESTBOUND RAMP

EXIST. CURVE DATA PI STA. = 25+71.47 $\Delta = 4^\circ 53' 00''$ (RT) $D = 0^\circ 48' 52''$ $R = 7,035.49'$ $T = 300.00'$ $L = 599.64'$ $E = 6.39'$ $e = \text{-----}$ $T.R. = \text{-----}$ $S.E. RUN = \text{-----}$ P.C. STA. = 22+71.47 P.T. STA. = 28+71.11	EXIST. CURVE DATA PI STA. = 21+01.52 $\Delta = 2^\circ 19' 00''$ (LT) $D = 0^\circ 40' 53''$ $R = 8,407.73'$ $T = 170.00'$ $L = 339.95'$ $E = 1.72'$ $e = \text{-----}$ $T.R. = \text{-----}$ $S.E. RUN = \text{-----}$ P.C. STA. = 19+31.52 P.T. STA. = 22+71.47	EXIST. CURVE DATA PI STA. = 9+34.86 $\Delta = 3^\circ 20' 00''$ (LT) $D = 1^\circ 49' 13''$ $R = 3,147.40'$ $T = 91.58'$ $L = 183.11'$ $E = 1.33'$ $e = \text{-----}$ $T.R. = \text{-----}$ $S.E. RUN = \text{-----}$ P.C. STA. = 8+43.28 P.T. STA. = 10+26.39	EXIST. CURVE DATA PI STA. = 7+57.95 $\Delta = 3^\circ 06' 48''$ (RT) $D = 1^\circ 49' 27''$ $R = 3,141.16'$ $T = 85.36'$ $L = 170.68'$ $E = 1.16'$ $e = \text{-----}$ $T.R. = \text{-----}$ $S.E. RUN = \text{-----}$ P.C. STA. = 6+72.59 P.T. STA. = 8+43.27
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 USER NAME = philip_j

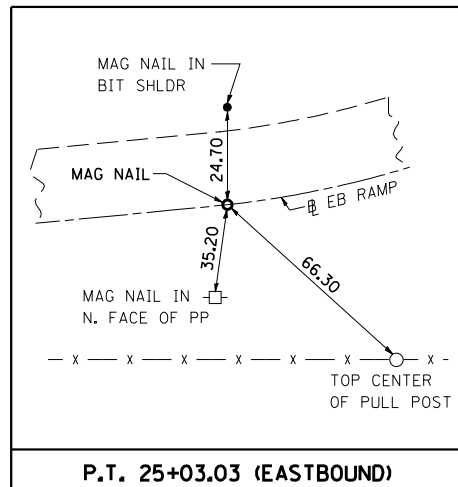
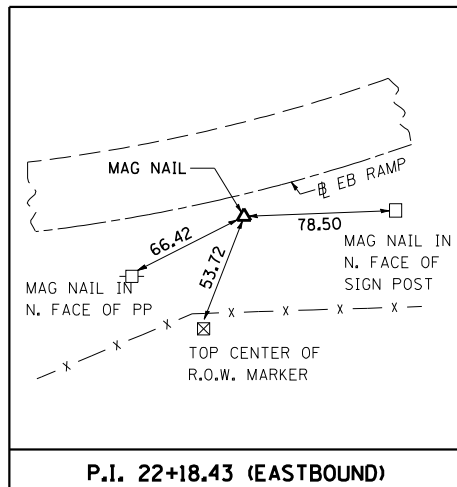
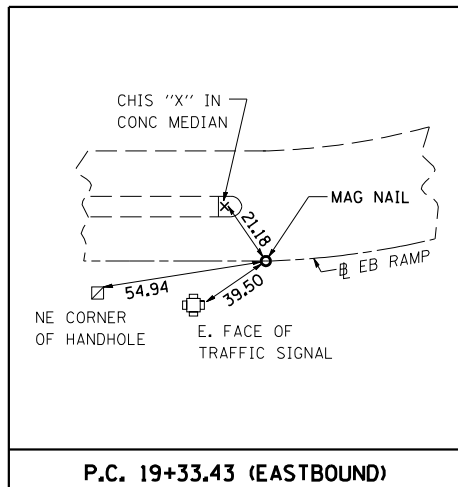
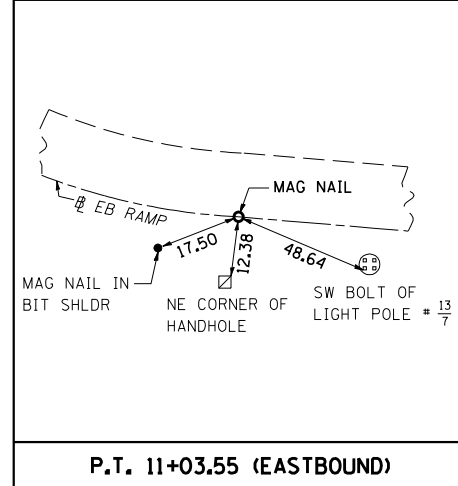
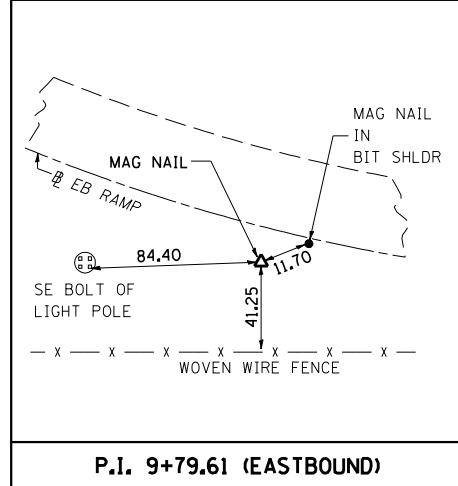
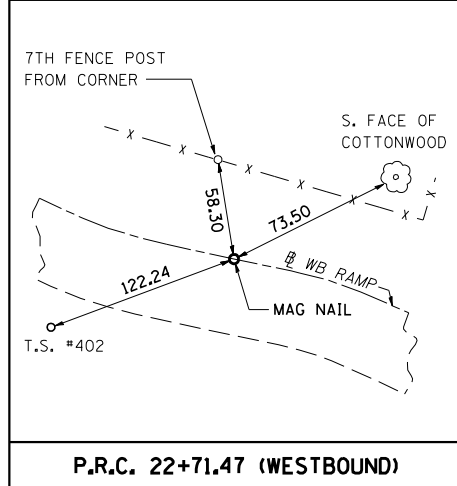
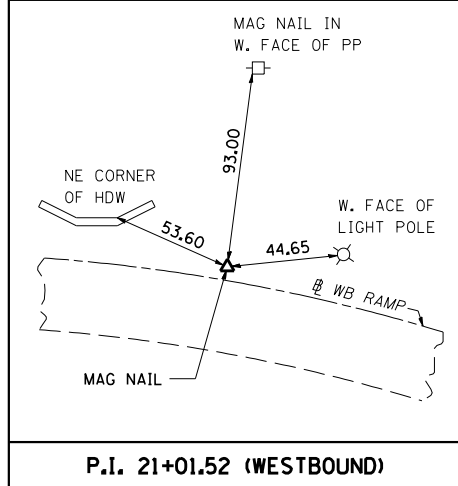
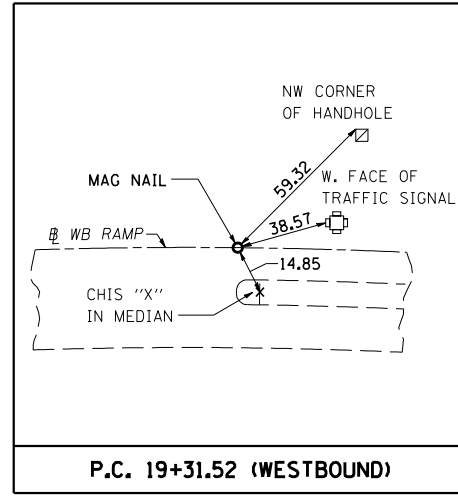
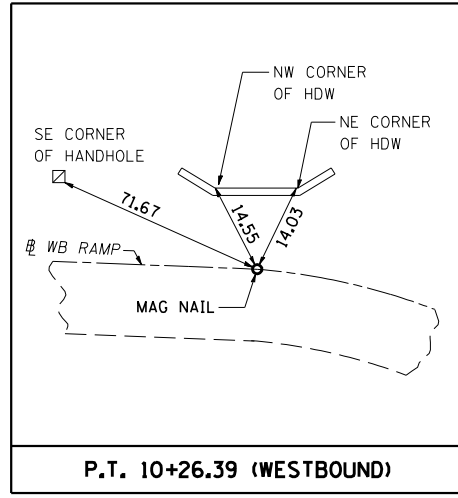
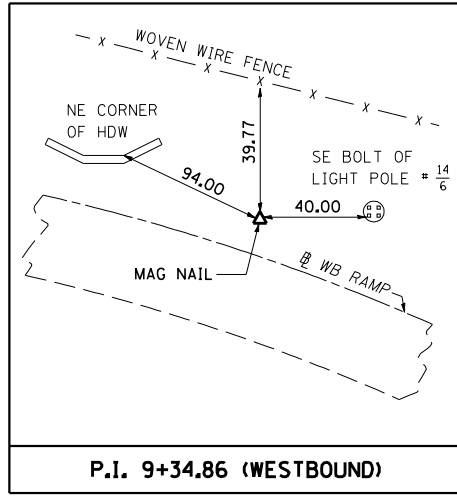
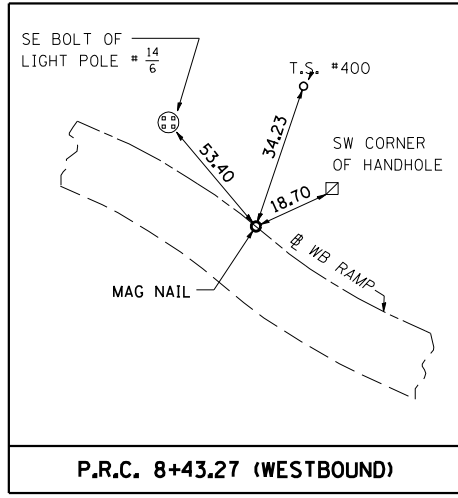


ILLINOIS DEPARTMENT OF TRANSPORTATION
ALIGNMENT LAYOUT
 F.A.I. ROUTE 74
 SECTION 57-18WS-2
 MCLEAN COUNTY

SCALE: 1"=100'
 DATE: 07/17/06

DRAWN BY: CADD
 CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	9



BENCHMARKS	
BM 4757-6	CHISELED SQUARE LOCATED ON THE TOP OF THE NW CORNER OF AR BOX CULVERT S.N. 057-8544 STATION 1647+07, 87.14' RT, ELEV 795.781
BM 4757-5	ON THE NW CORNER OF THE CONCRETE FOUNDATION OF HANDHOLE ON S. SIDE OF RAMP TO EB WEIGH STATION STATION 1662+45.5, 146.5' RT, ELEV 802.597
BM 4757-4	ON THE NW CORNER OF THE CONCRETE FOUNDATION OF LIGHT POLE. SE QUAD OF RAMP & PARKING AREA STATION 1668+99.75, 143.1' RT, ELEV 804.91
BM 4757-3	ON SW CORNER OF LIGHT POLE FOUNDATION #14/16 NORTH SIDE OF PARKING AREA OF WB WEIGH STATION ELEV 807.242
BM 4757-2	BETWEEN THE RAMP TO WB WEIGH STATION & I-74. ON THE TOP OF THE NW CORNER OF WEIGH IN MOTION CONTROL BOX FOUNDATION ELEV 808.364
BM 4757-1	CHISELED "X" ON TOP OF THE SW BOLT OF OVERHEAD (WEIGH STATION) SIGN STRUCTURE STATION 1694+94.82, 93.7' LT, ELEV 805.863

ILLINOIS DEPARTMENT OF TRANSPORTATION
SURVEY CROSS-TIES & BENCHMARKS
 F.A.I. ROUTE 74
 SECTION 57-18WS-2
 MCLEAN COUNTY

SCALE: N/A
 DATE: 07-17-06

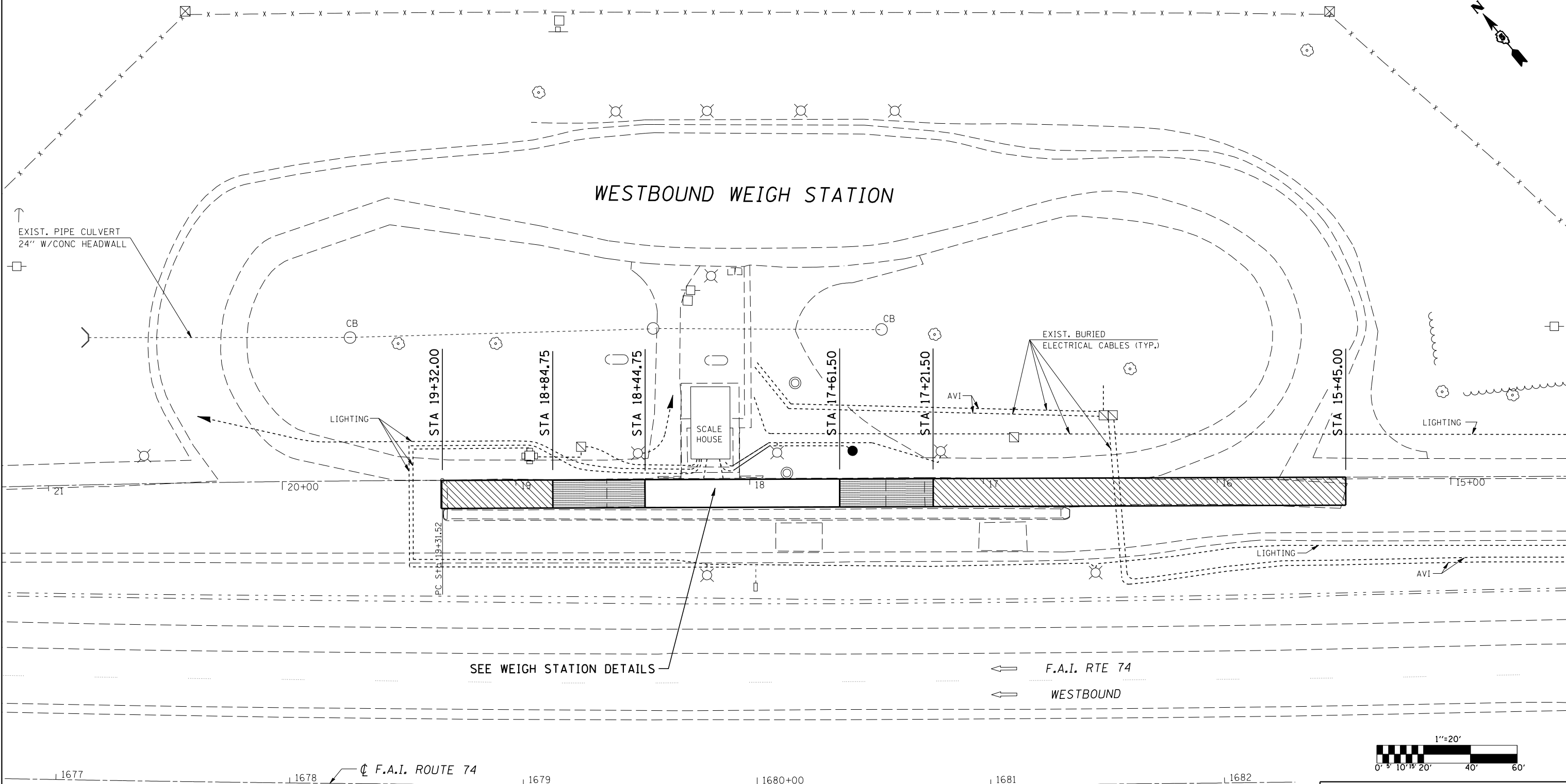
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 CHECKED BY:

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 USER NAME = philipj

SEC 9 T24N R1E 3RD PM

CONTRACT NO. 70569

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	10
STA. ±21+20 WB WS TO STA. ±14+50 WB WS				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

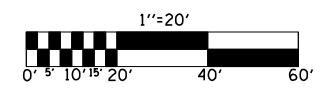


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NOTE:
 SEE ALIGNMENT SHEET FOR LAYOUT.

LEGEND	
	PAVEMENT REMOVAL
	APPROACH SLAB REMOVAL

NOTE:
 SEE SHEET 21 OF 26 FOR DETAIL.



ILLINOIS DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS

F.A.I. ROUTE 74

SECTION 57-18WS-2

MCLEAN COUNTY

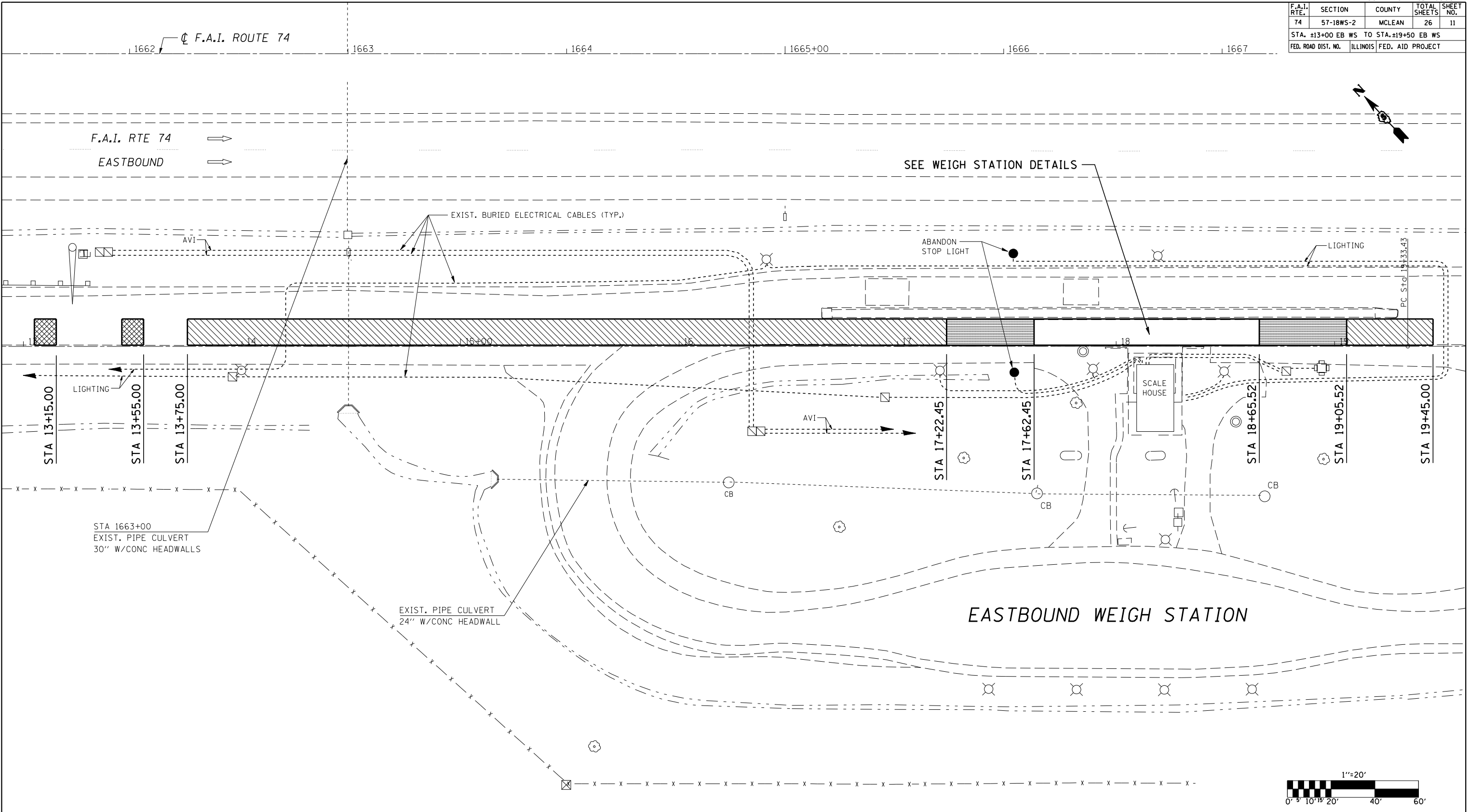
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DATE: 08/21/06

DRAWN BY: CADD

CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	11
STA. ±13+00 EB WS TO STA. ±19+50 EB WS				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



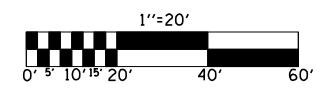
SEE WEIGH STATION DETAILS

EASTBOUND WEIGH STATION

NOTE:
SEE ALIGNMENT SHEET FOR LAYOUT.

LEGEND	
	CLASS B PATCH
	PAVEMENT REMOVAL
	APPROACH SLAB REMOVAL

NOTE:
SEE SHEET 21 OF 26 FOR DETAIL.



ILLINOIS DEPARTMENT OF TRANSPORTATION
REMOVAL DETAILS
 F.A.I. ROUTE 74
 SECTION 57-18WS-2
 MCLEAN COUNTY

SCALE: 1" = 20'
 DATE: 08/21/06

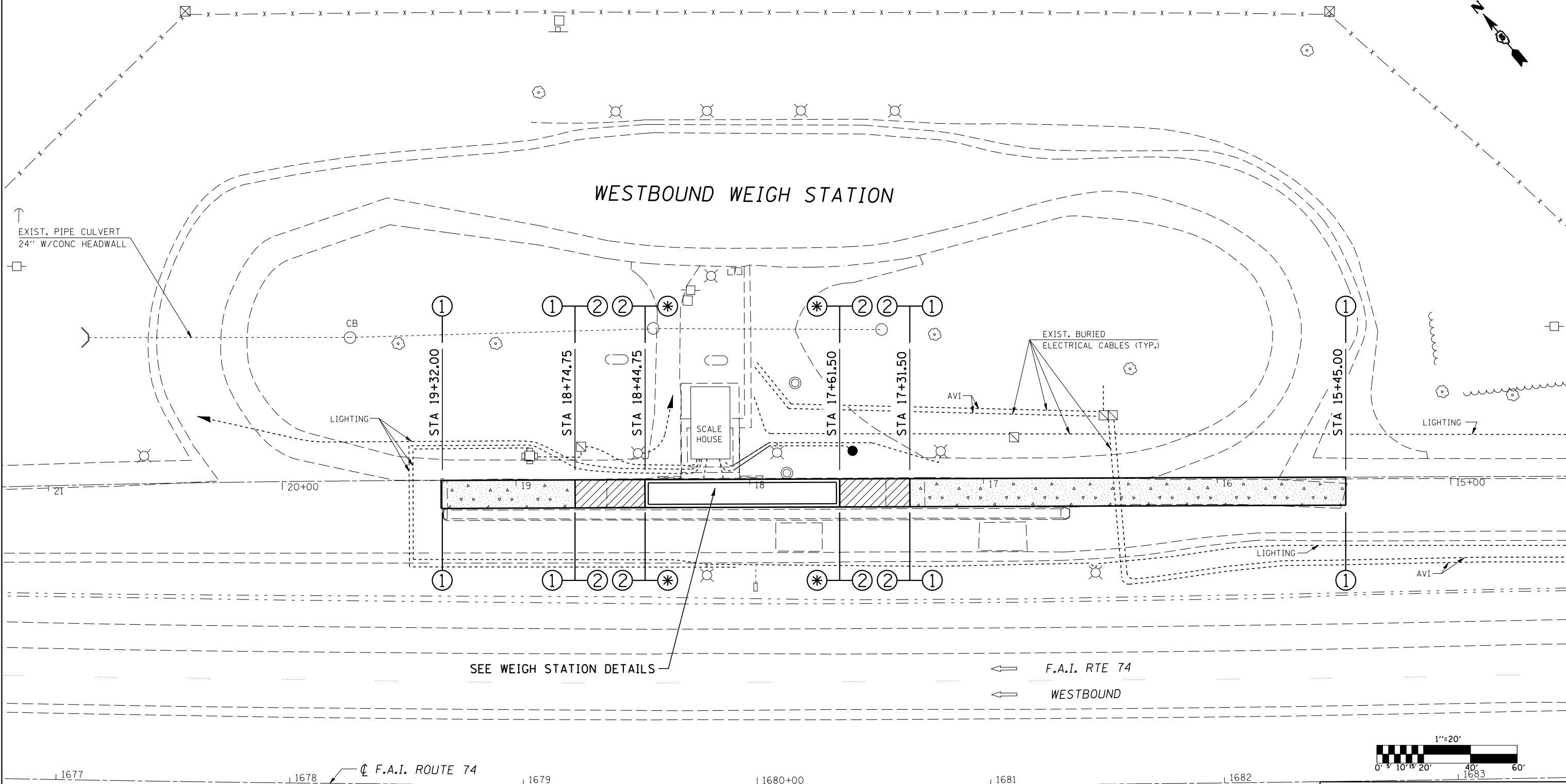
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 USER NAME = phillipsj

SEC 9 T24N R1E 3RD PM

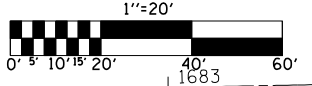
CONTRACT NO. 70569

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	12
STA. ±21+20 WB WS TO STA. ±14+50 WB WS				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SEE WEIGH STATION DETAILS

← F.A.I. RTE 74
← WESTBOUND



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAN VIEW
 F.A.I. ROUTE 74
 SECTION 57-18WS-2
 MCLEAN COUNTY
 SCALE: 1" = 20'
 DATE: 08/21/06
 DRAWN BY: CADD
 CHECKED BY:

LEGEND	
	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
	BRIDGE APPROACH PAVEMENT (SPECIAL)

⊛ SEE SCALE PLANS

NOTE:
SEE ALIGNMENT SHEET FOR LAYOUT.

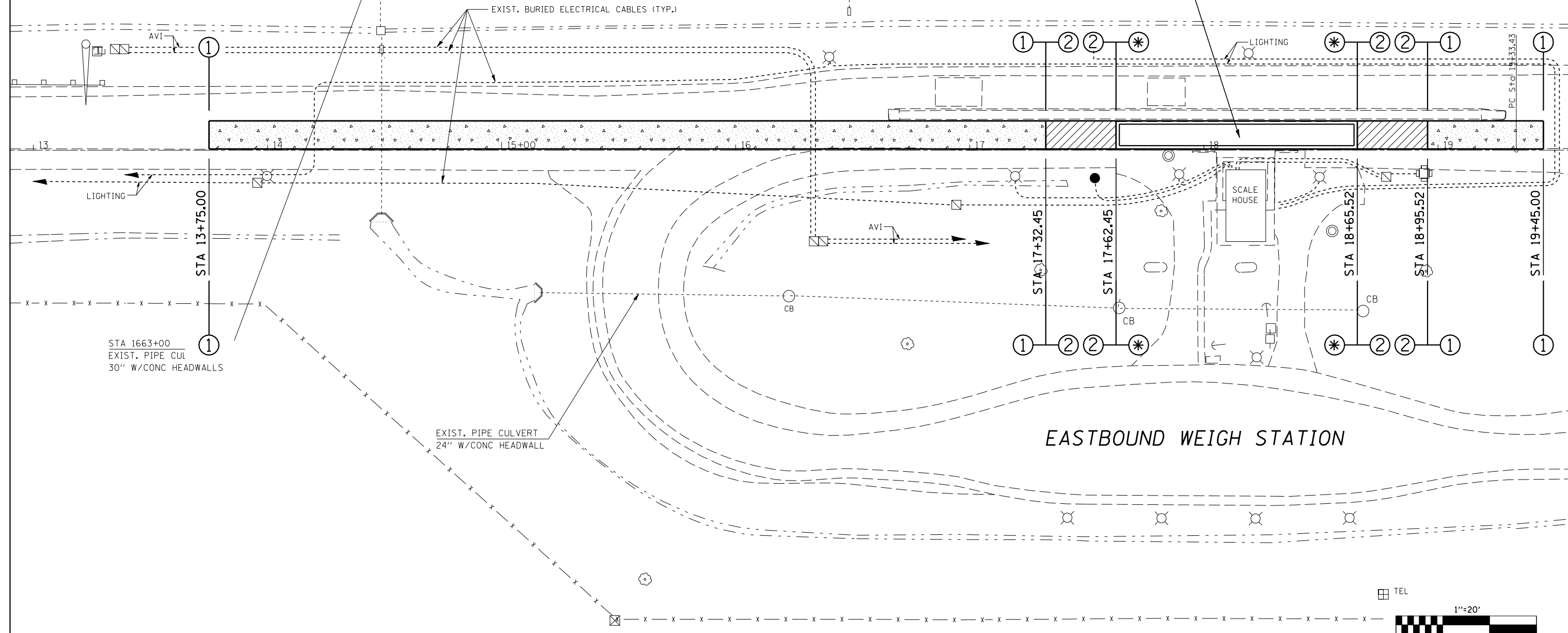
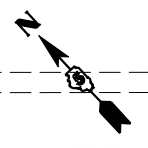
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 USER NAME = phillipsj

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	13
STA. ±13+00 EB WS TO STA. ±19+50 EB WS				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

1662 | F.A.I. ROUTE 74 | 1663 | 1664 | 1665+00 | 1666 | 1667

F.A.I. RTE 74
EASTBOUND

SEE WEIGH STATION DETAILS



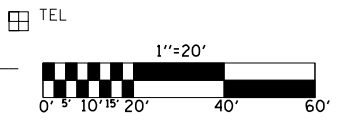
STA 1663+00
EXIST. PIPE CUL
30" W/CONC HEADWALLS

EXIST. PIPE CULVERT
24" W/CONC HEADWALL

EASTBOUND WEIGH STATION

⊛ SEE SCALE PLANS

LEGEND	
	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
	BRIDGE APPROACH PAVEMENT (SPECIAL)



NOTE:
SEE ALIGNMENT SHEET FOR LAYOUT.

SEC 9 T24N R1E 3RD PM

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAN VIEW
 F.A.I. ROUTE 74
 SECTION 57-18WS-2
 MCLEAN COUNTY

SCALE: 1" = 20'
 DATE: 08/21/06

DRAWN BY: CADD
 CHECKED BY:

PLOT DATE = 12/7/2006
 FILE NAME = c:\projects\70569\70569sheets.dgn
 PLOT SCALE = 42.3525 / IN.
 USER NAME = phillipsj

Existing Structure: Weigh Stations at CarLock were originally built in 1966 as F.A.I. Route 74, Section 57-18WS-1 McLean County. The existing concrete deck and upper 1'-0" of concrete pit perimeter are to be removed and replaced. Traffic will be detoured.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL	SHEET NO. 1
F.A.I. 74	57-18 WS-2	McLean	26	14	7 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #70569

INDEX OF SHEETS

1. General Data
- 2-3. General Plan & Elevation
4. Concrete Removal Details
5. Concrete Deck Details
- 6-7. Concrete Pit Details

SCOPE OF WORK

1. Remove and replace concrete decks of the 4 platform scales.
2. Clean and paint structural steel.
3. Remove and replace the top 1'-0" of the concrete pit on the perimeter of the 4 platform scales.
4. Remove, reinstall and recalibrate existing load cells. See Special Provision.

LOADING HS20-44

No Future wearing surface allowed

DESIGN SPECIFICATIONS

1996 AASHTO w/ 1997 thru 2002 Interims

DESIGN STRESSES

NEW CONSTRUCTION

- $f'_c = 3,500$ psi (Deck and Pit)
 $f_y = 60,000$ psi (Reinforcement)
 $f_s = 36,000$ psi (Structural Steel AASHTO M270 Grade 36)

FIELD UNITS

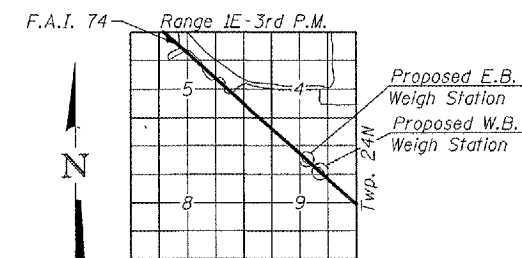
- $f_c = 1,000$ psi (Pit)
 $f_s = 20,000$ psi (Reinforcement)
 $f_s = 20,000$ psi (Structural Steel)

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.
 Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
 Reinforcement bars designated (E) shall be epoxy coated.
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
 The cost of any structure excavation shall be included with Concrete Removal. Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning-SSPC-SPI10. All existing steel shall be painted according to the requirements of Paint System 1-OZ/E/U. The color of the final finish coat shall be Gray, Munsell No 5B 7/1.
 The SSPC-QP1 and SSPC-QP2 Painting Contractor Certifications will not be required for these Weigh Stations.
 No field welding is permitted except as specified in the contract documents.
 Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
 As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by an individual acceptable to the Engineer. Any cracks that can not be removed by grinding 1/4 in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
 The Contractor shall line the concrete surface of the platforms according to Article 420.09(e)(1) of the Standard Specifications. Cost included in Concrete Superstructure.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Superstructure	Cu. Yd.	30.0		30.0
Removal of Existing Concrete Deck	L. Sum	1		1
Reinforcement Bars, Epoxy Coated	Pound	10730		10730
Concrete Removal	Cu. Yd.		15.4	15.4
Protective Coat	Sq. Yd.	222		222
Furnishing and Erecting Structural Steel	Pound	7700		7700
Concrete Structures	Cu. Yd.		15.4	15.4
Reinforcement Bars	Pound		2060	2060
Cleaning and Painting Steel Bridge	L. Sum			1
Containment and Disposal of Lead Paint Cleaning Residues	L. Sum			1
Jack, Remove and Replace Load Cells	L. Sum			1



LOCATION SKETCH

GENERAL DATA
CARLOCK WEIGH STATIONS
F.A.I. ROUTE 74 SECT. 57-18WS-2
McLEAN COUNTY
STA. 1680+00.00 (WB) &
STA. 1666+50.00 (EB)

DESIGNED *Stephan M. Papp*
 CHECKED *Fesseln Teklelem*
 DRAWN *R. Sommer*
 CHECKED *SMR/FT*

EXAMINED *Thomas J. Smayda*
 PASSED *Ralph E. Adams*
 January 18, 2007
 ENGINEER OF BRIDGE DESIGN
 ENGINEER OF BRIDGES AND STRUCTURES

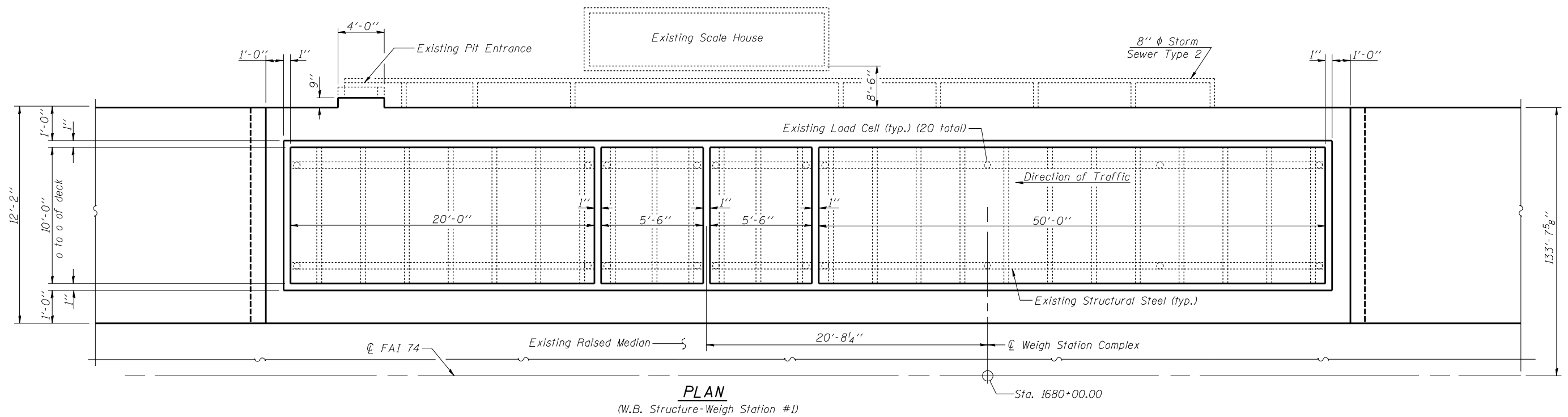
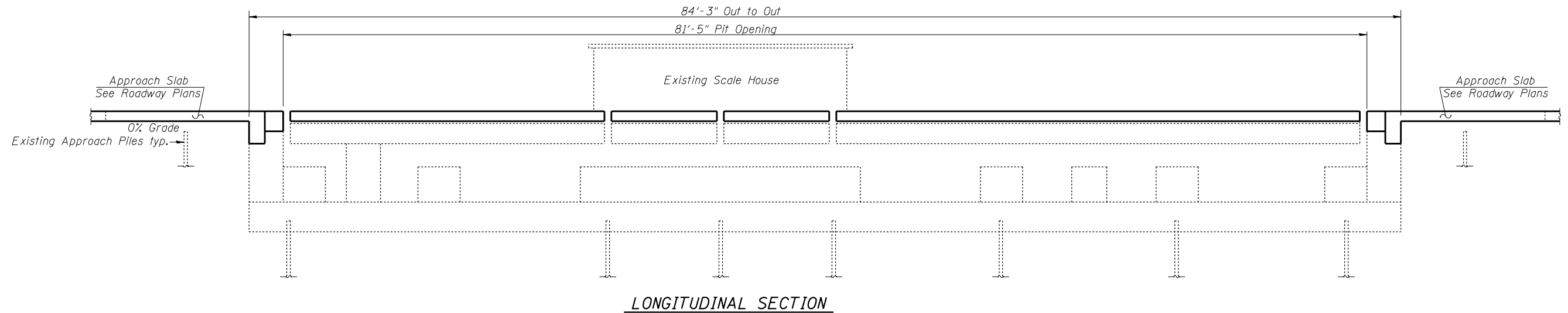


EXPIRES 11-30-2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2 7 SHEETS
F.A.I. 74	57-18 WS-2	McLean	26	15	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #70569



DESIGNED Stephen M. Ryan
CHECKED Fesseha Teklehaimanot
DRAWN R. Sommer
CHECKED SMR/FT

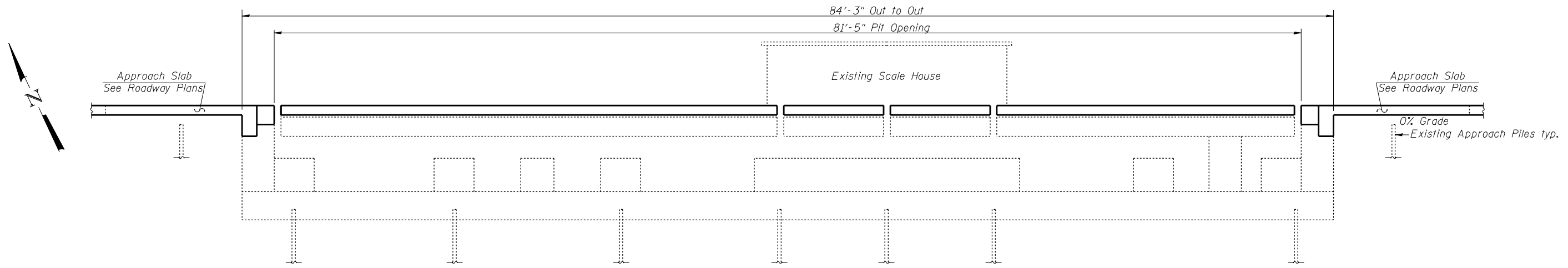
January 18, 2007
EXAMINED Thomas J. Domagalaki
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN & ELEVATION
W.B. CARLOCK WEIGH STATION
F.A.I. ROUTE 74 SECT. 57-18WS-2
MCLEAN COUNTY
STA. 1680+00.00 (WB)

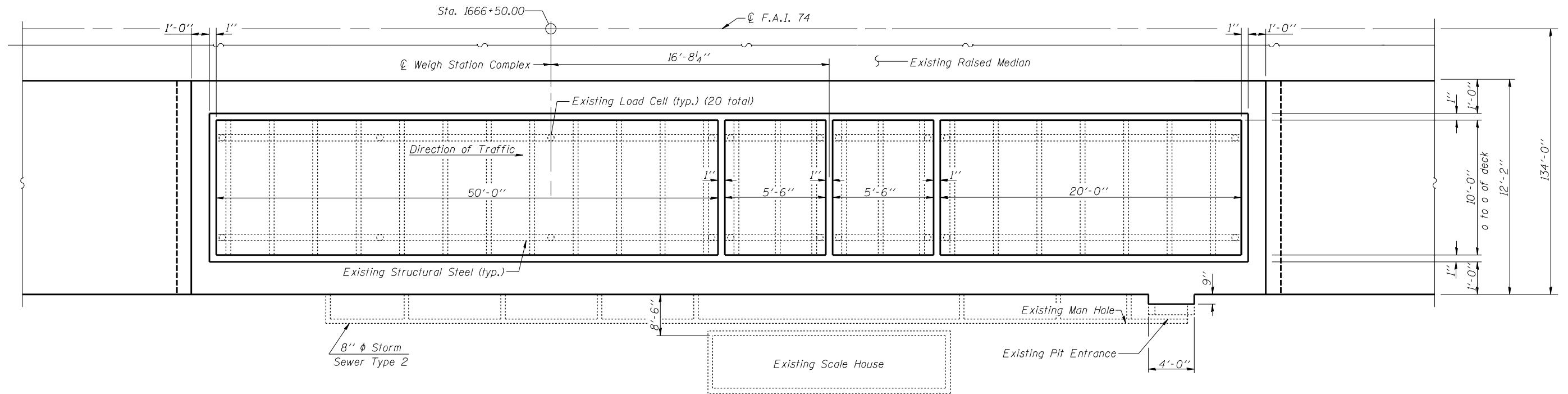
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
F.A.I. 74	57-18 WS-2	McLean	26	16	7 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #70569



LONGITUDINAL SECTION



PLAN
(E.B. Structure-Weigh Station #2)

DESIGNED	Stephen M. Ryan
CHECKED	Fesseha Teklehaimanot
DRAWN	R. Sommer
CHECKED	SMR/FT


EXAMINED	January 18, 2007	Thomas J. Domagalaki
PASSED		Ralph E. Anderson


GENERAL PLAN & ELEVATION
E.B. CARLOCK WEIGH STATION
F.A.I. ROUTE 74 SECT. 57-18WS-2
McLEAN COUNTY
STA. 1666+50.00 (EB)

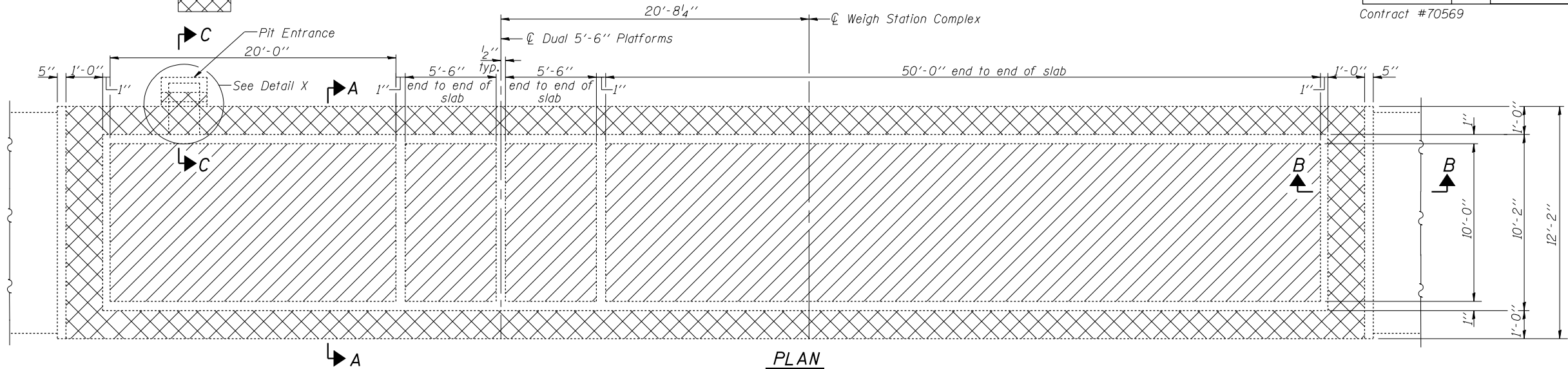
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4
F.A.I. 74	57-18 WS-2	McLean	26	17	7 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

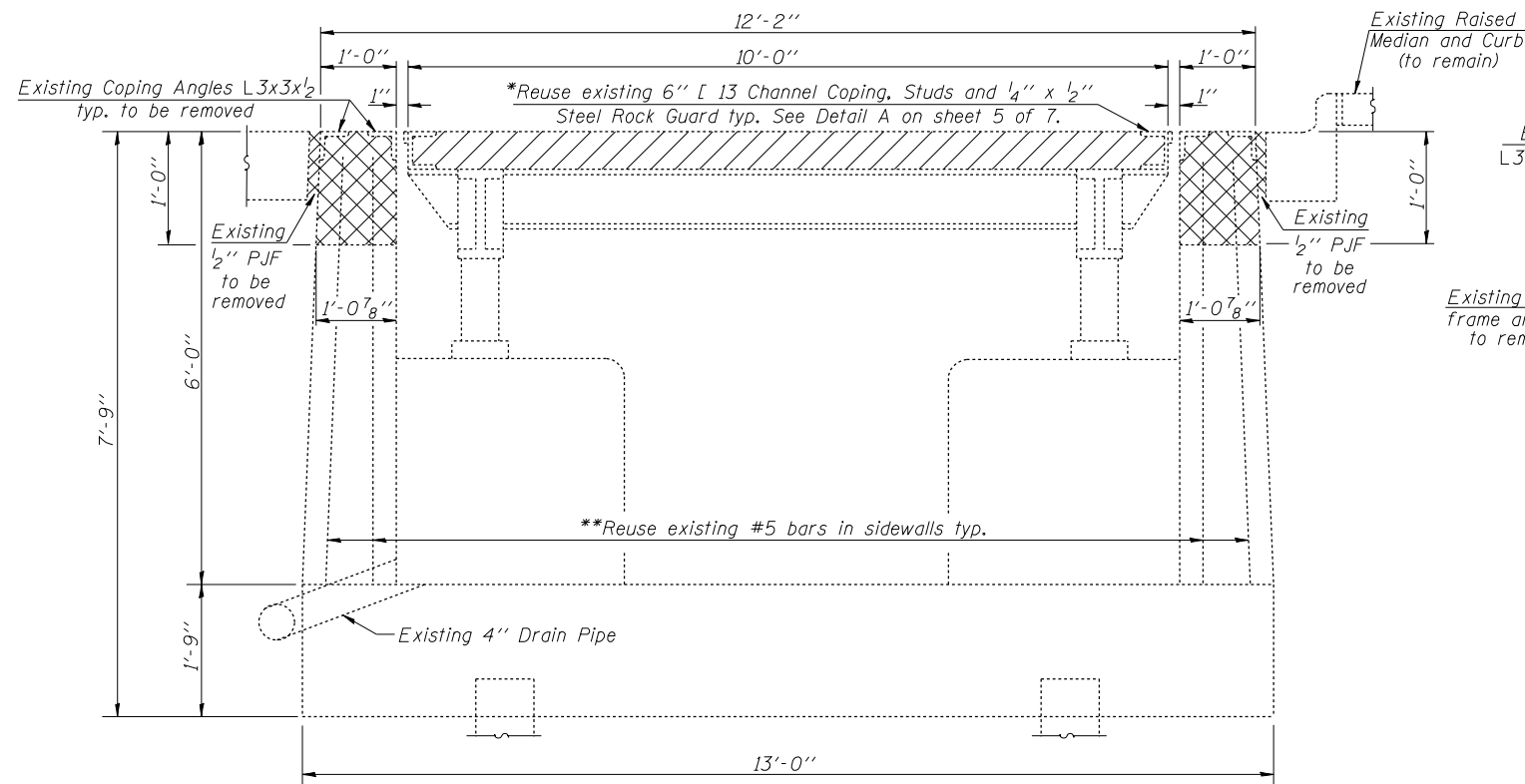
Contract #70569

 Indicates concrete to be removed as Removal of Existing Concrete Deck.

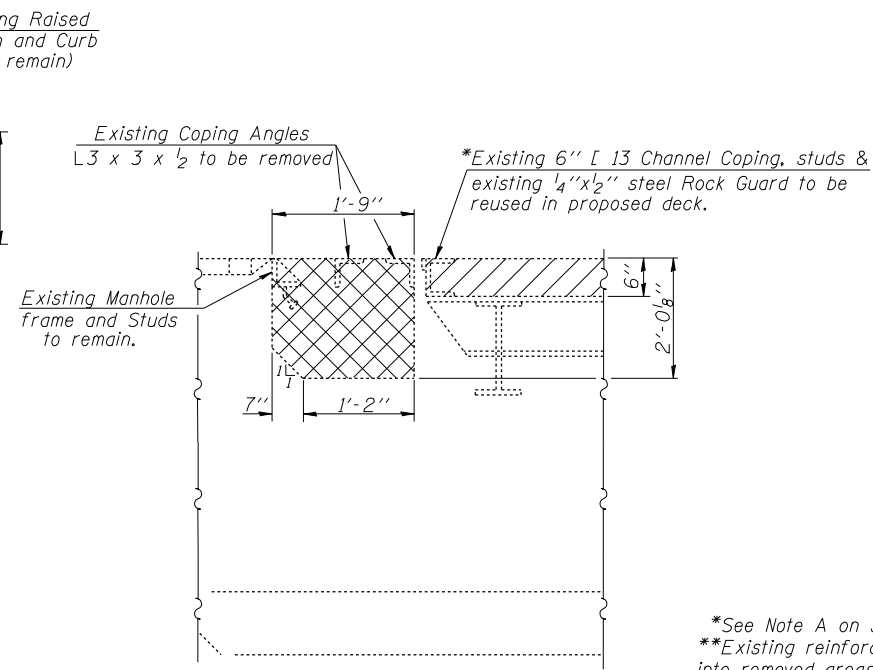
 Indicates concrete to be removed as Concrete Removal.



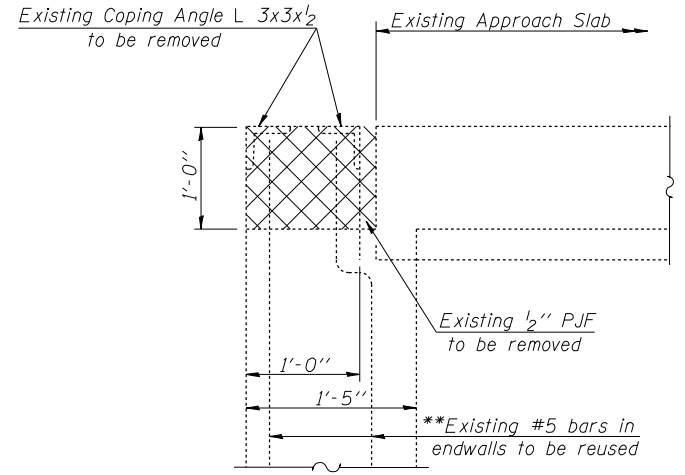
PLAN
(Coping and PJF not shown)
(W.B. shown & E.B. similar)



SECTION A-A



SECTION C-C



SECTION B-B

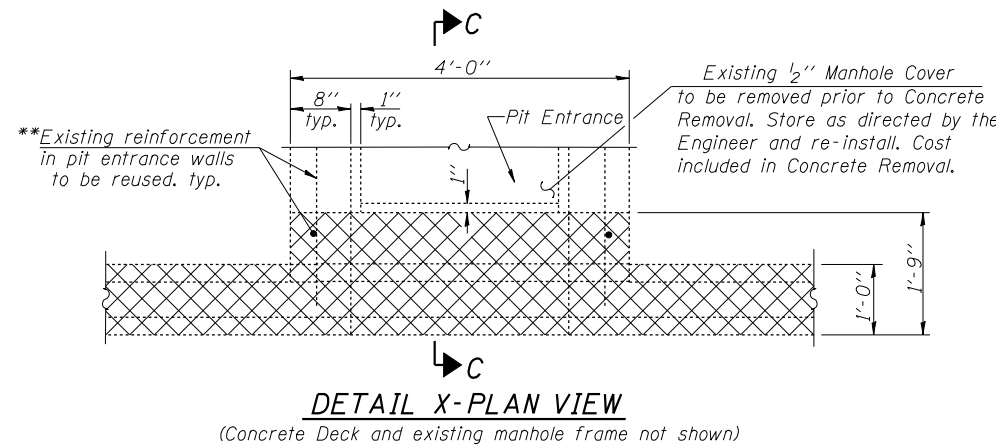
*See Note A on sht. 5 of 7.
**Existing reinforcement extending into removed areas shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.

Note: Cost of removal of coping angles (L3x3x1/2) and PJF included in Concrete Removal.

**BILL OF MATERIAL
FOR BOTH W.B. & E.B.**

Item	Unit	Total
Concrete Removal	Cu. Yd.	15.4
Removal of Existing Concrete Deck	L. Sum	1

**CONCRETE REMOVAL DETAILS
CARLOCK WEIGH STATIONS
F.A.I. ROUTE 74 SECT. 57-18WS-2
McLEAN COUNTY
STA. 1680+00.00 (WB) &
STA. 1666+50.00 (EB)**



DETAIL X-PLAN VIEW
(Concrete Deck and existing manhole frame not shown)

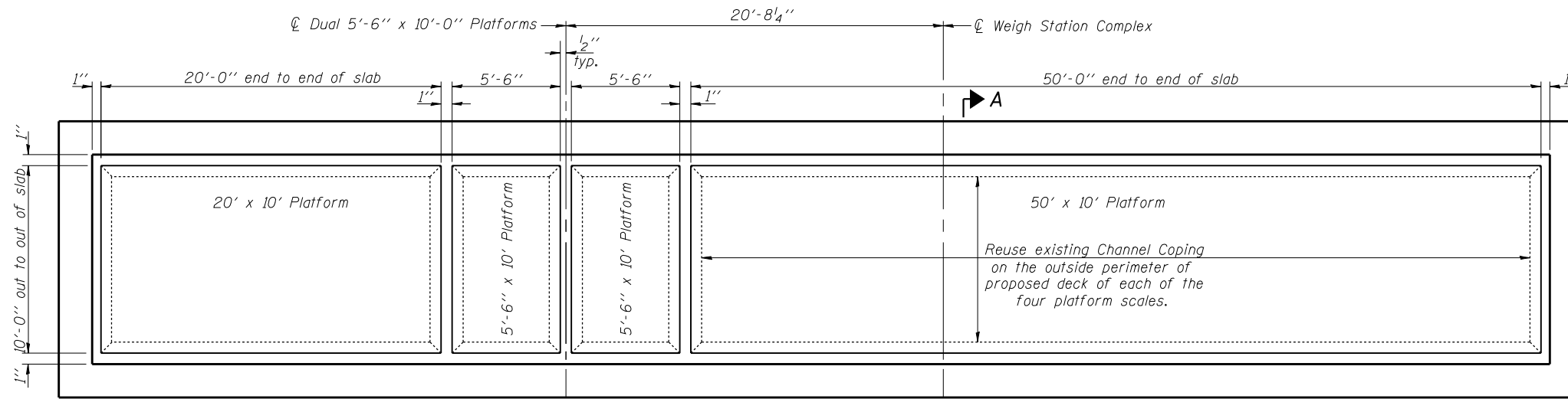
DESIGNED Stephen M. Ryan
CHECKED Fesseha Teklehaimanot
DRAWN R. Sommer
CHECKED SMR/FT

January 18, 2007
EXAMINED Thomas J. Domagalaki
PASSED Ralph E. Anderson

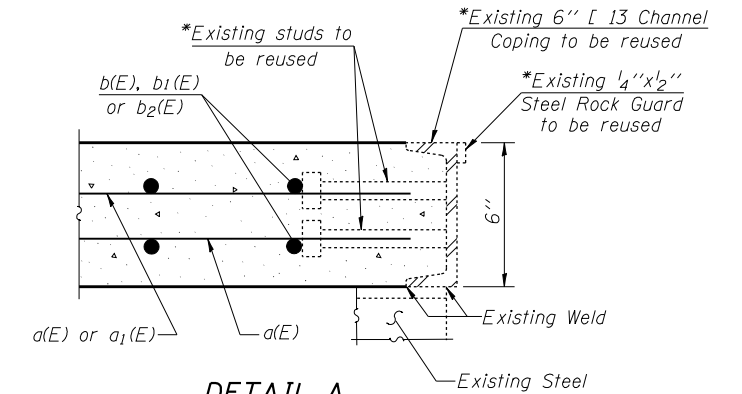
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 7 SHEETS
F.A.I. 74	57-18 WS-2	McLean	26	18	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

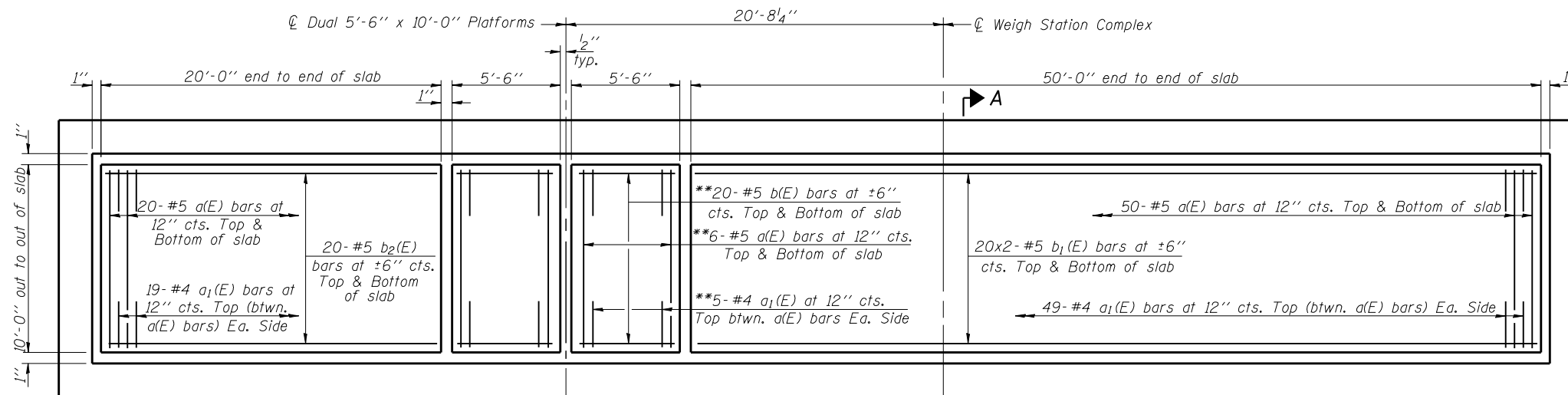
Contract #70569



**PLAN
CONCRETE DECK**
(Pit entrance not shown)
(W.B. shown & E.B. similar)
SHOWING CHANNEL COPING

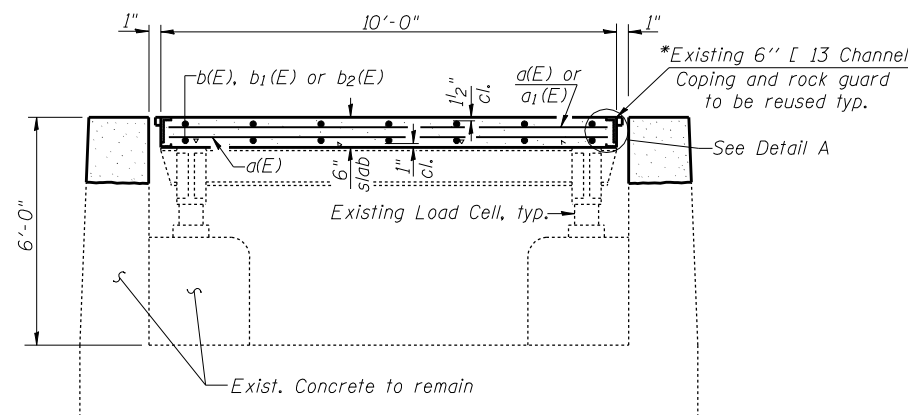


DETAIL A
*See Note A



**PLAN
CONCRETE DECK**
(Pit entrance not shown)
(W.B. shown & E.B. similar)
SHOWING REINFORCEMENT

**Each 5'-6" x 10'-0" Platform



SECTION A-A
*See Note A

MIN. BAR LAP
#5 Bar = 1'-8"

**BILL OF MATERIAL
FOR BOTH W.B. & E.B.**

Bar	No.	Size	Length	Shape
a(E)	328	#5	9'-9"	—
a1(E)	312	#4	2'-9"	—
b(E)	160	#5	5'-3"	—
b1(E)	160	#5	25'-9"	—
b2(E)	80	#5	19'-9"	—
Reinforcement Bars, Epoxy Coated			Pound	10730
Conc. Superstructure			Cu. Yd.	30.0

Bars indicated thus 20x2-#5 etc. indicates 20 lines of bars with 2 lengths per line.

***Note A:**

The Contractor has the option to remove the existing channel coping (with existing studs and rock guards) which is welded to the existing steel and replace it with new channel coping (with new studs and rock guards). If the Contractor chooses to do this, the Bureau of Bridges and Structures shall be contacted for weld information, the Contractor shall take care not to damage the existing steel which is to be reused, and there shall be no extra cost to the department.

**CONCRETE DECK DETAILS
CARLOCK WEIGH STATIONS
F.A.I. ROUTE 74 SECT. 57-18WS-2
MCLEAN COUNTY
STA. 1680+00.00 (WB) &
STA. 1666+50.00 (EB)**

DESIGNED	Stephen M. Ryan
CHECKED	Fesseha Teklehaimanot
DRAWN	R. Sommer
CHECKED	SMR/FT

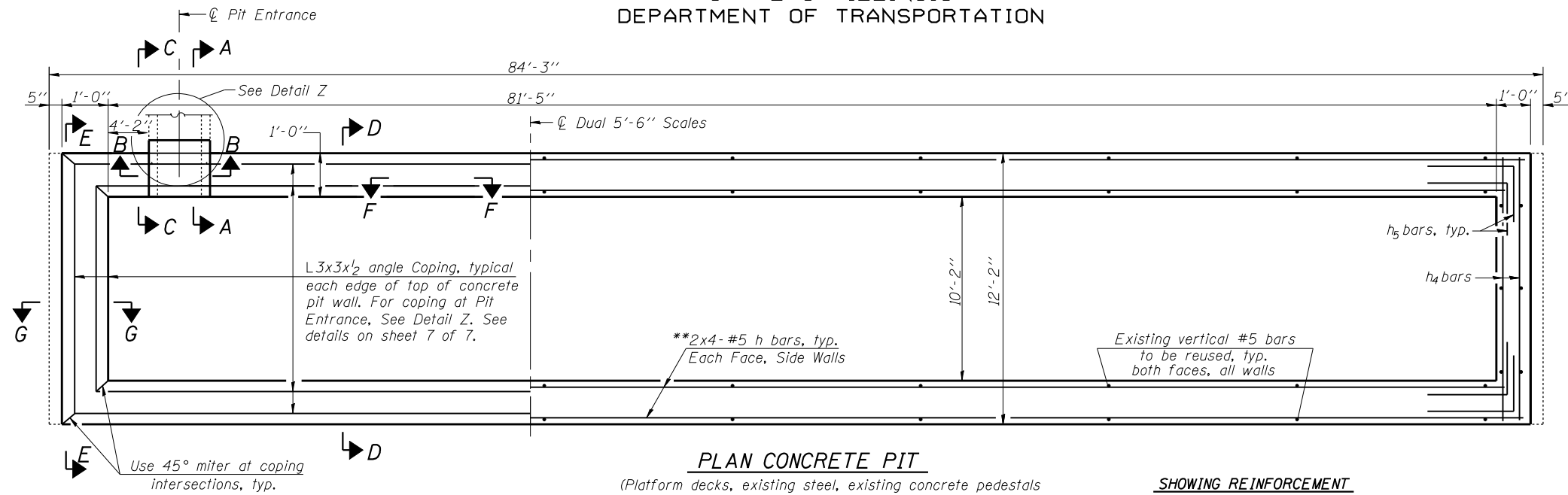
EXAMINED	Thomas J. Domagalicki ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

January 18, 2007

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6
F.A.I. 74	57-18 WS-2	McLean	26	19	7 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

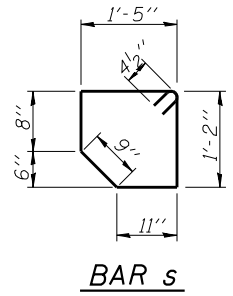
Contract #70569



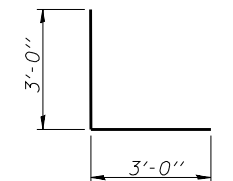
SHOWING ANGLE COPING

PLAN CONCRETE PIT
(Platform decks, existing steel, existing concrete pedestals and approach slab not shown) (W.B. shown & E.B. similar)

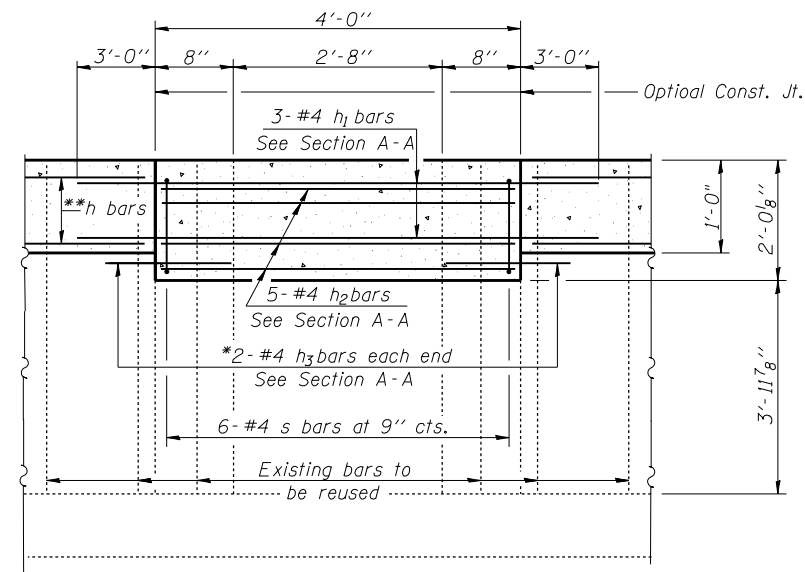
SHOWING REINFORCEMENT



BAR s



BAR h5



SECTION B-B
(Coping angles not shown)

MIN. BAR LAP
#5 Bar = 3'-0"

BILL OF MATERIAL
FOR BOTH W.B. & E.B.

Bar	No.	Size	Length	Shape
h	64	#5	23'-0"	—
h1	6	#4	10'-0"	—
h2	10	#4	3'-9"	—
h3	8	#4	2'-5"	—
h4	16	#5	11'-10"	—
h5	32	#5	6'-0"	L
s	12	#4	5'-8"	□
Reinforcement Bars		Pound	2060	
Conc. Structures		Cu. Yd.	15.4	

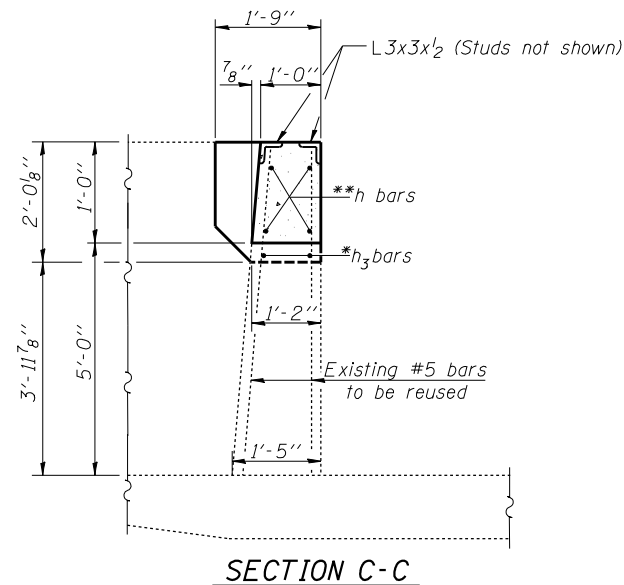
Bars indicated thus 2x4-#5 etc. indicates 2 lines of bars with 4 lengths per line.

Notes: See sheet 7 of 7 for Sections A-A, D-D, E-E, F-F and G-G.

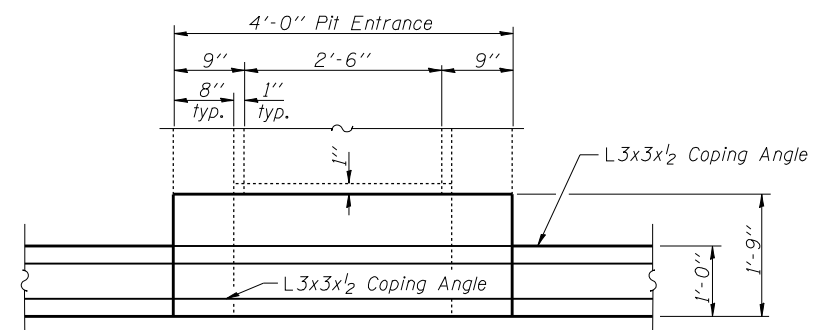
Existing reinforcement extending into removed areas shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.

*Epoxy grout h3 bars in 9" min. drilled holes according to Section 584 of the Standard Specifications.

**Cut h bar reinforcement in the wall at pit entrance. See Section B-B.



SECTION C-C



DETAIL Z-PLAN VIEW
AT PIT ENTRANCE

(Reinforcement and entire existing manhole frame not shown)

DESIGNED	Stephen M. Ryan
CHECKED	Fesseha Teklehaimanot
DRAWN	R. Sommer
CHECKED	SMR/FT

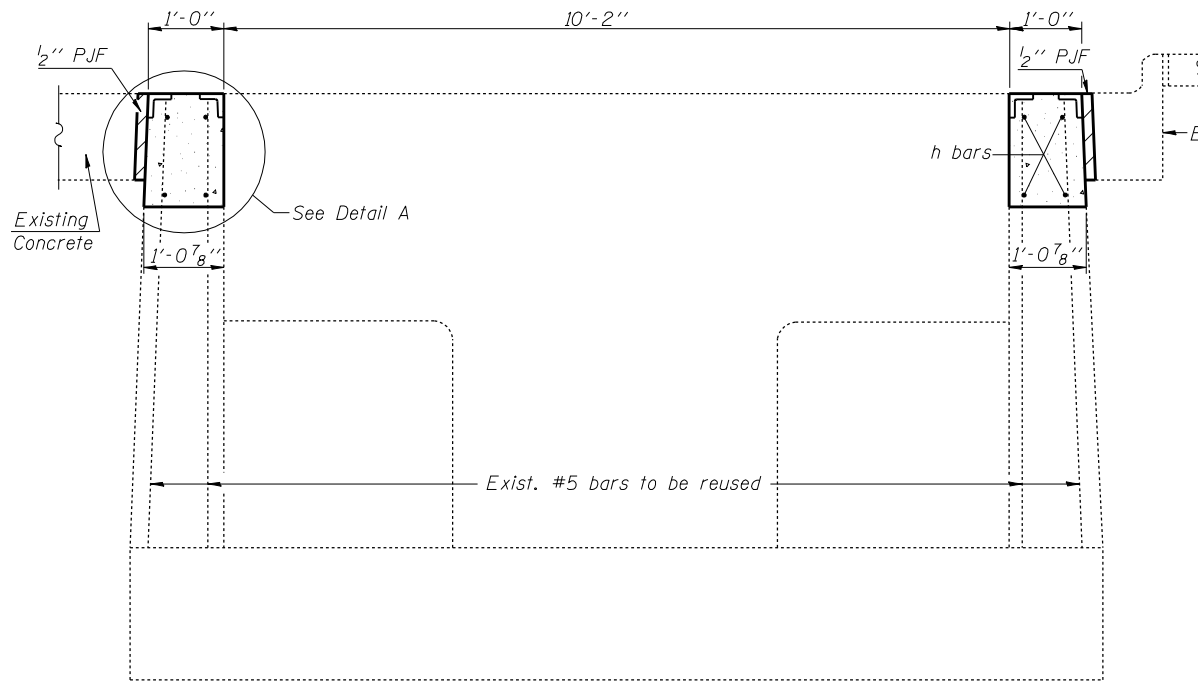
EXAMINED	January 18, 2007	Thomas J. Domagalaki
PASSED		Ralph E. Anderson

CONCRETE PIT DETAILS
CARLOCK WEIGH STATIONS
F.A.I. ROUTE 74 SECT. 57-18WS-2
MCLEAN COUNTY
STA. 1680+00.00 (WB) &
STA. 1666+50.00 (EB)

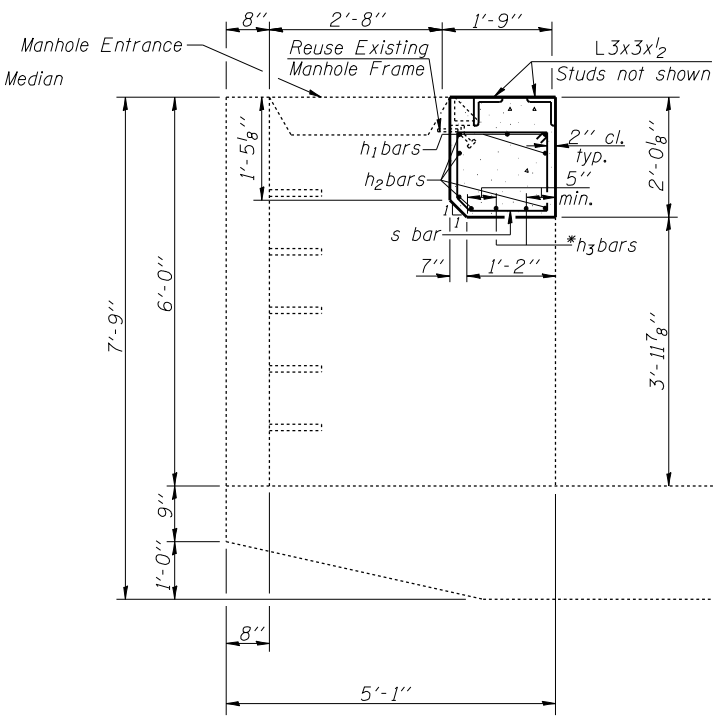
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7
F.A.I. 74	57-18 WS-2	McLean	26	20	7 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #70569

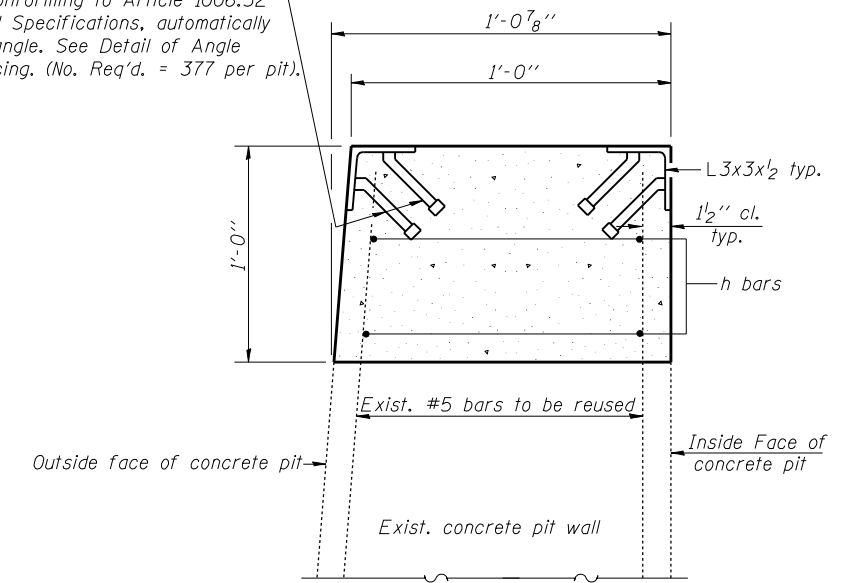


SECTION D-D
(Thru Sidewalls)



SECTION A-A

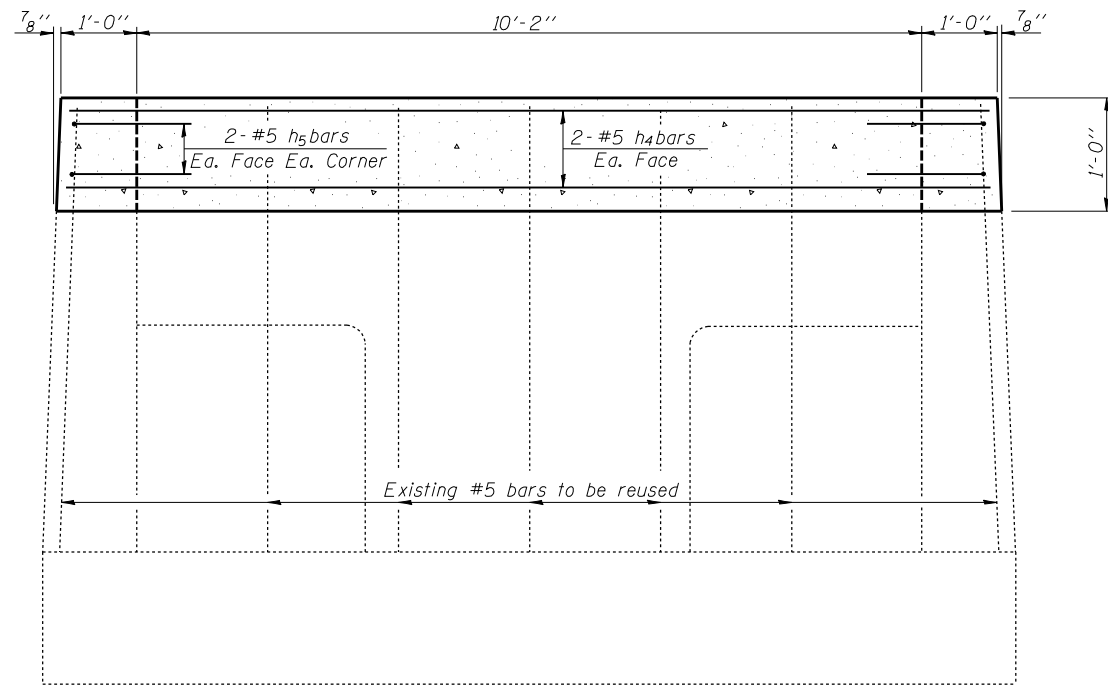
3/4" ϕ x 6" Granular or solid flux filled headed studs conforming to Article 1006.32 of the Standard Specifications, automatically end welded to angle. See Detail of Angle Coping for spacing. (No. Req'd. = 377 per pit).



DETAIL A

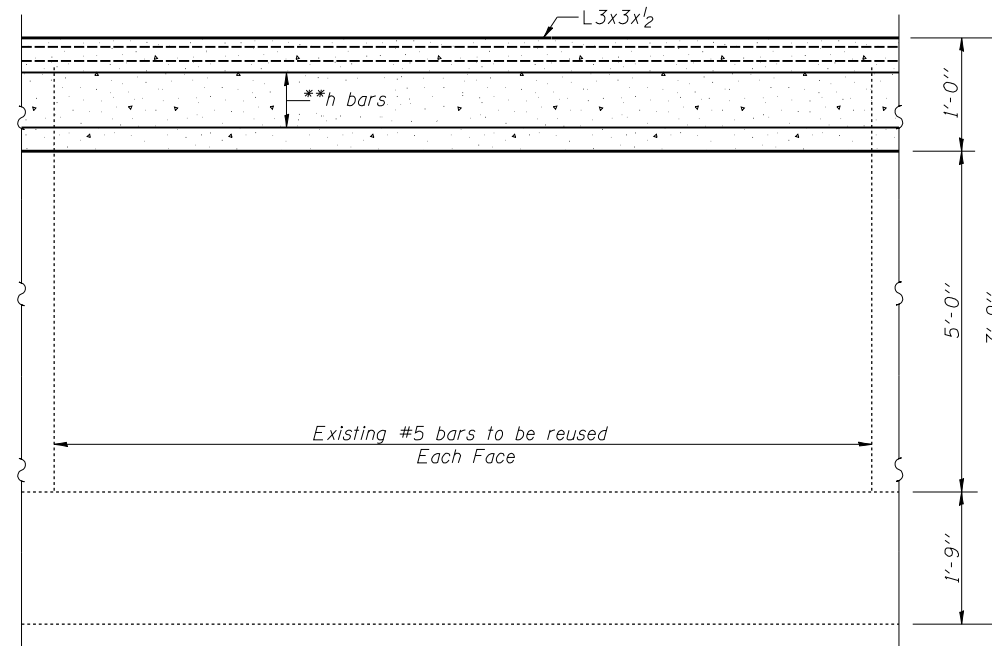
(Side walls shown, End walls similar.)

After welding, angles and studs shall be galvanized according to AASHTO M111. No field painting required. Angle coping and studs paid for as Furnishing and Erecting Structural Steel. (376'-4" length of Angle Coping required per pit).



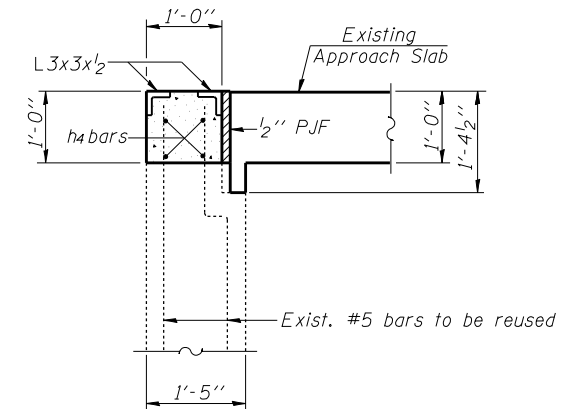
SECTION E-E

(Thru Endwalls)
(Existing concrete outside pit not shown)
(Coping angle L3x3x1/2 and approach slab not shown)



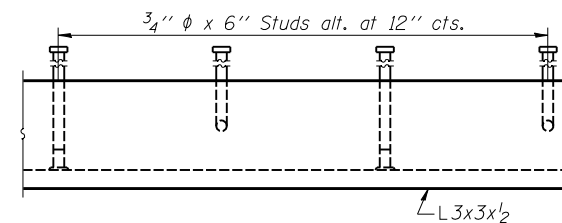
SECTION F-F

(Thru Sidewalls)



SECTION G-G

Showing Approach Slab, Concrete Pit and Coping angles. Concrete Deck, Scale Components, Structural Steel and studs not shown.



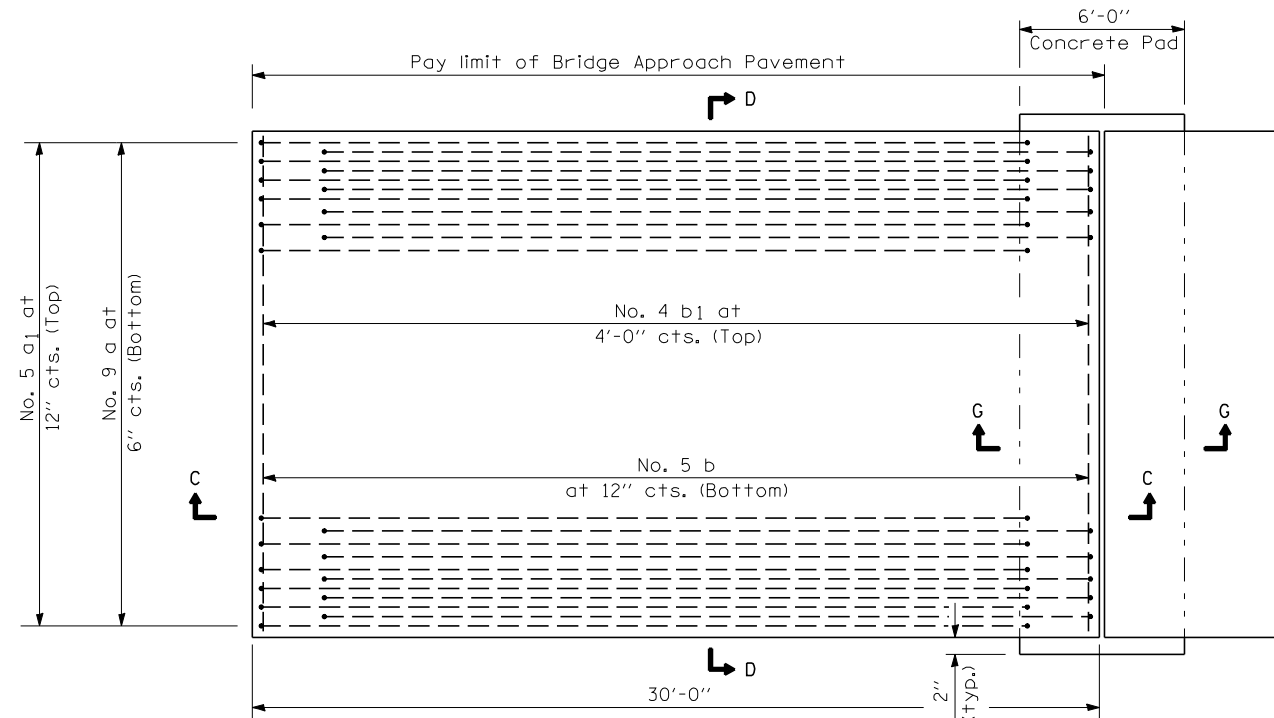
DETAIL OF ANGLE COPING

*Epoxy grout h3 bars in 9" min. drilled holes according to Section 584 of the Standard Specifications.
**Cut h bar reinforcement in the wall at pit entrance.

DESIGNED	Stephen M. Ryan
CHECKED	Fesseha Teklehaimanot
DRAWN	R. Sommer
CHECKED	SMR/FT

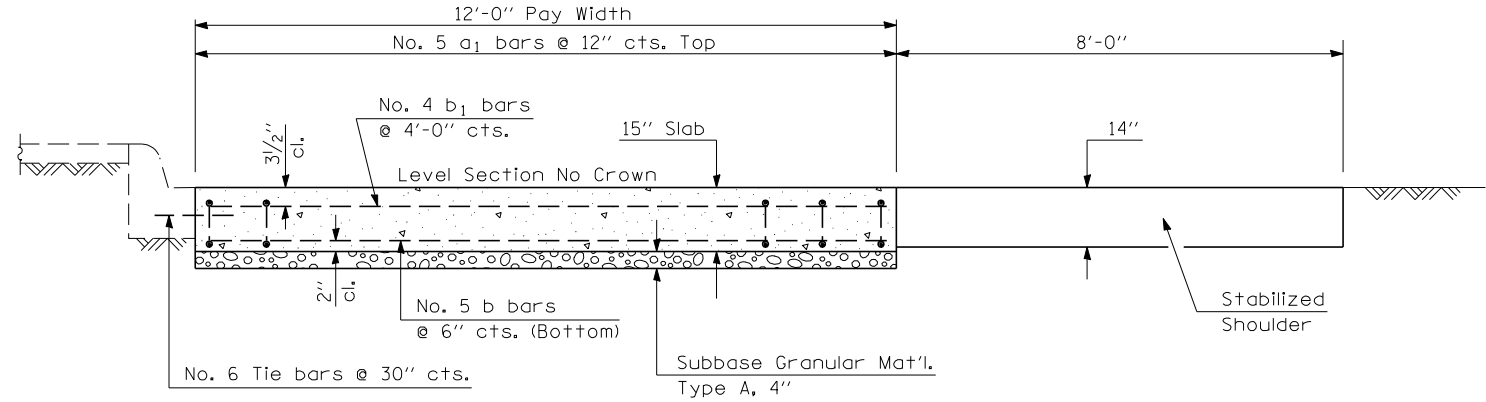
EXAMINED	January 18, 2007	Thomas J. Domagala
PASSED		Ralph E. Anderson

CONCRETE PIT DETAILS
CARLOCK WEIGH STATIONS
F.A.I. ROUTE 74 SECT. 57-18WS-2
MCLEAN COUNTY
STA. 1680+00.00 (WB) &
STA. 1666+50.00 (EB)



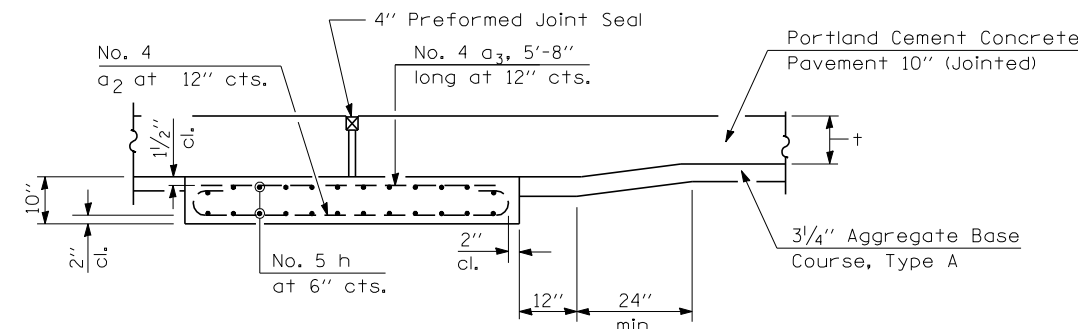
PLAN - WITHOUT SKEW

* Saw \perp or lane edge if poured two or more lane widths at a time.



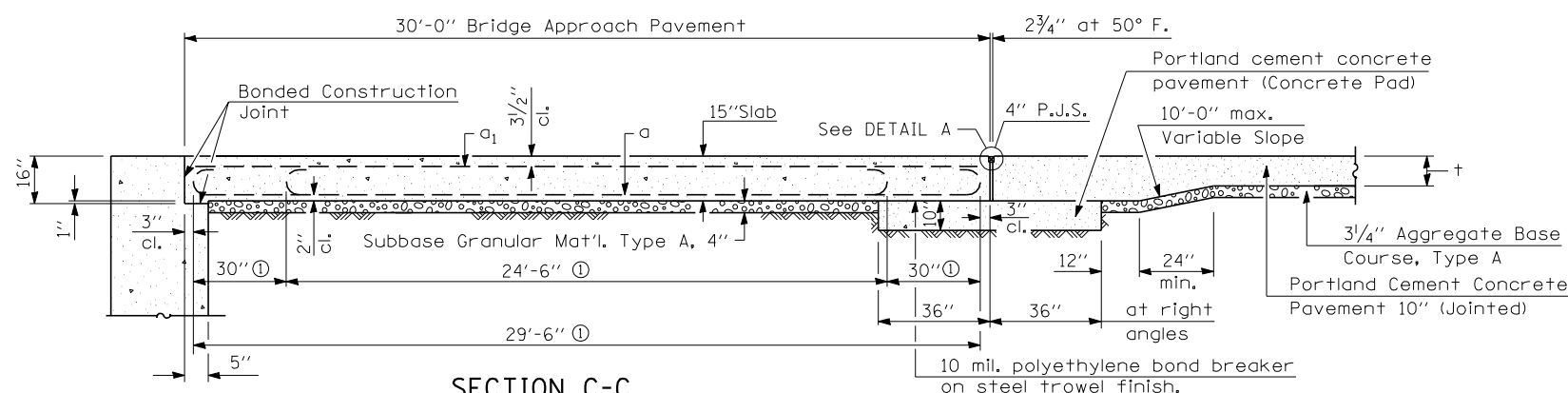
SECTION D-D

(See Plan for Dimensions not shown)
All reinforcement bars shall be epoxy coated.



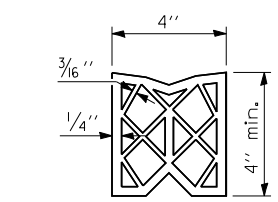
SECTION G-G - RIGID PAVEMENT

(Showing reinforcement)

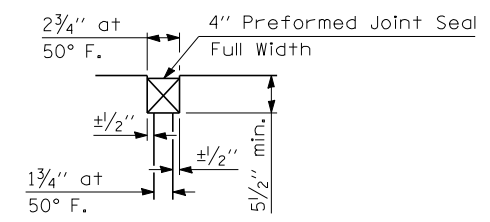


SECTION C-C

① Stagger No. 9 a bars as shown on plan - full width



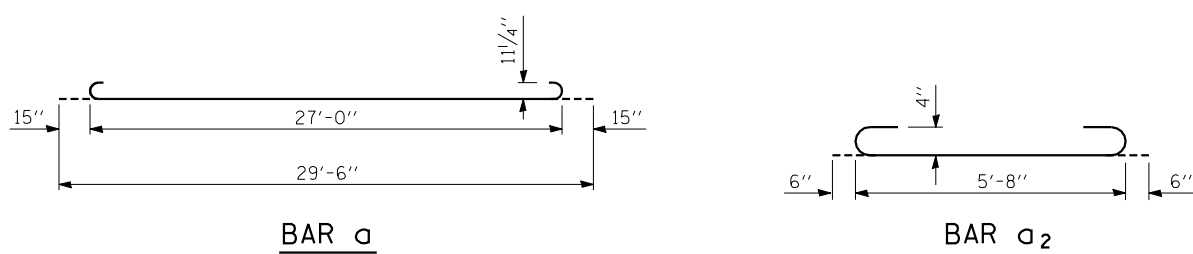
PREFORMED JOINT SEAL



DETAIL A

DESIGN STRESSES

$f_y = 60,000$ p.s.i.
 $f'_c = 3,500$ p.s.i.
 $n = 8.5$



BAR a

BAR a2

GENERAL NOTES

THICKNESS-"t"=Thickness of Pavement.
See Standard 421001 for reinforcement details not shown.
See Standard 420001 for joint details not shown.

**ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE APPROACH PAVEMENT
SPECIAL**

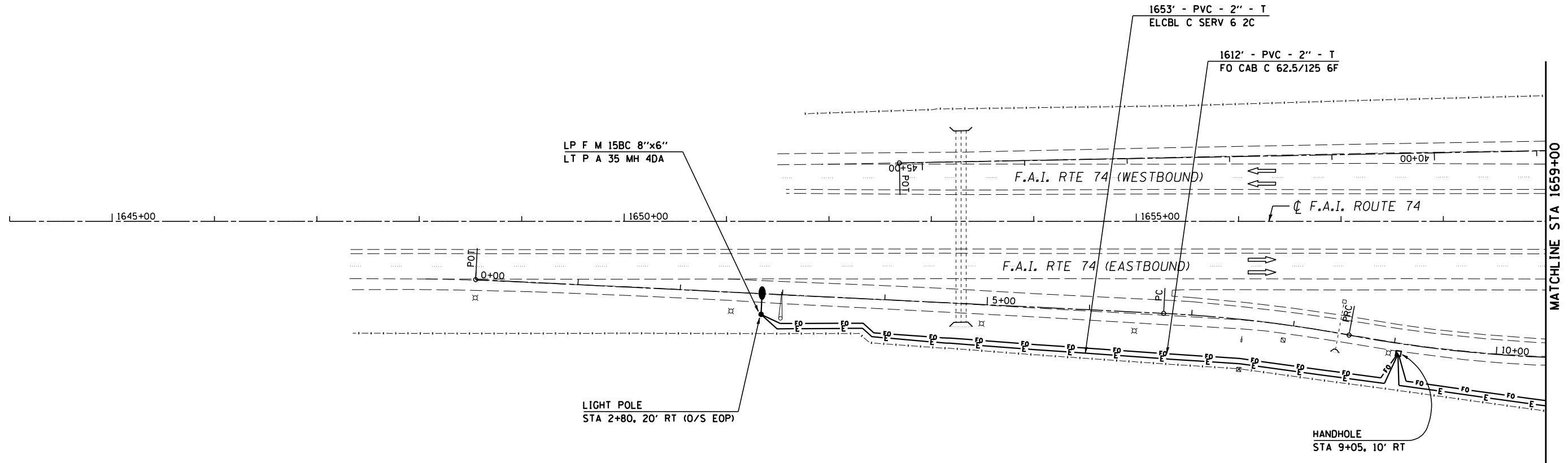
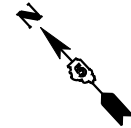
**F.A.I. ROUTE 74
SECTION 57-18WS-2
MCLEAN COUNTY**

SCALE: N/A
DATE: 08-16-06
DRAWN BY: CADD
CHECKED BY:

PLOT DATE = 12/7/2006
FILE NAME = c:\p\projects\5718ws-2\5718ws-2.dwg
PLOT SCALE = 211/847 / IN.
USER NAME = philippe_j

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	23
STA. 1644+00		TO STA. 1659+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL OF VIDEO CAMERA DETECTION SYSTEM

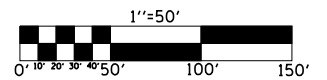


PLAN NOTES

THE MATERIAL AND LABOR TO CONNECT THE CAMERA TO THE POLE BOX SHALL BE PER MANUFACTURER'S RECOMMENDATION AND SHALL BE INCLUDED AS PART OF THE PAY ITEM FOR VIDEO CAMERA DETECTION SYSTEM.

BREAKAWAY COUPLINGS SHALL BE GALVANIZED STEEL ACCORDING TO ARTICLE 1070.04.

LEGEND	
	LIGHT POLE, ALUMINUM, 35 FT. M.H., 4 FT. DAVIT ARM, FOR CAMERA MOUNT
	HANDHOLE
	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 6F
	ELECTRICAL CABLE IN CONDUIT, SERVICE, NO. 6 2C



ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAIL OF VIDEO CAMERA DETECTION SYSTEM
 F.A.I. ROUTE 74
 SECTION 57-18WS-2
 MCLEAN COUNTY

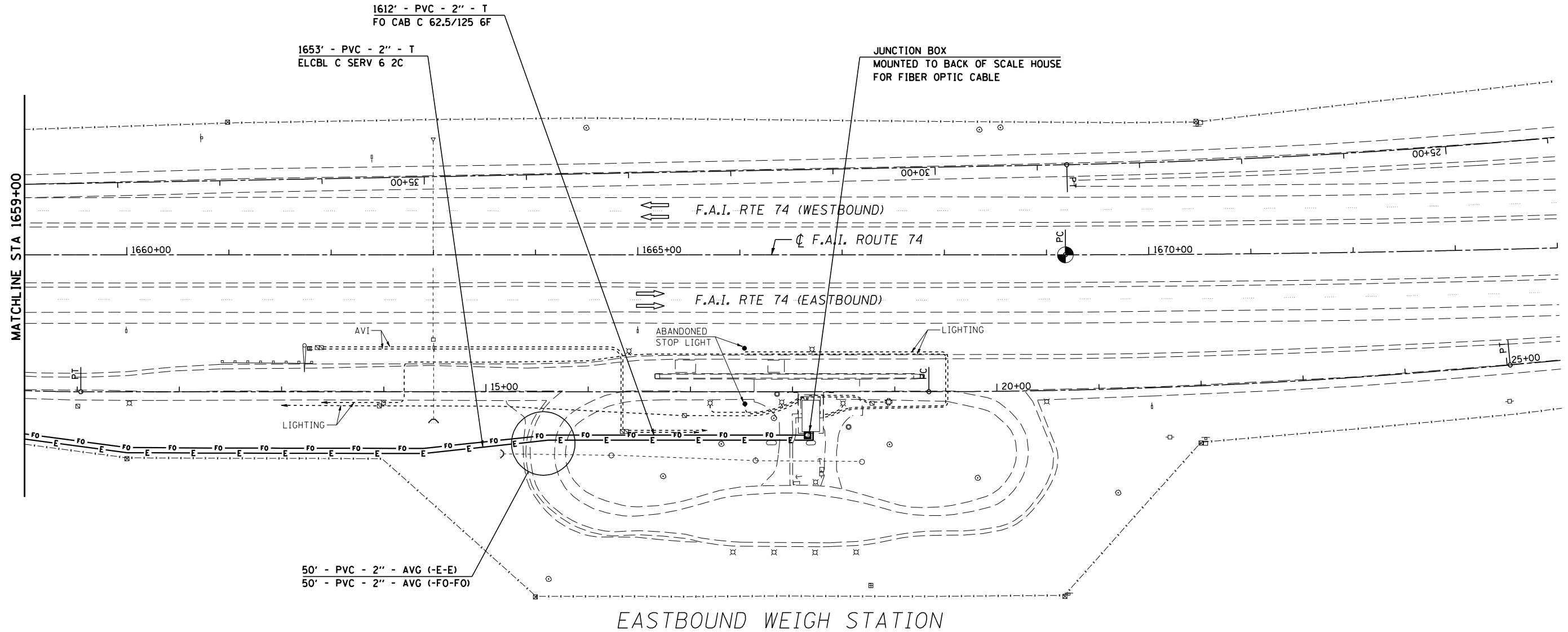
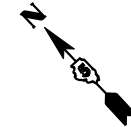
SCALE: 1" = 50'
 DATE: 11/13/06

DRAWN BY: CADD
 CHECKED BY:

PLOT DATE = 12/8/2006
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 PLOT SCALE = 1/8"=50' / IN.
 USER NAME = philipj

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	24
STA. 1659+00		TO STA. 1674+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

DETAIL OF VIDEO CAMERA DETECTION SYSTEM



EASTBOUND WEIGH STATION

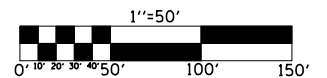
LEGEND	
-----	EXISTING BURIED ELECTRICAL CABLES
■	JUNCTION BOX
—FO—	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 6F
—E—	ELECTRICAL CABLE IN CONDUIT, SERVICE, NO. 6 2C

PLAN NOTES

BOTH POWER AND FIBER OPTIC SHALL BE RUN THROUGH THE SOUTH SIDE OF THE SCALE HOUSE.

ALL WORK ASSOCIATED WITH HOOKING UP THE VIDEO CAMERA DETECTION SYSTEM WITHIN THE CONFINES OF THE SCALEHOUSE SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR VIDEO CAMERA DETECTION SYSTEM AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

CONTACT DAVE BURKYBILE AT 217-466-7383 FOR ADDITIONAL ASSISTANCE.



ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAIL OF VIDEO CAMERA DETECTION SYSTEM
 F.A.I. ROUTE 74
 SECTION 57-18WS-2
 MCLEAN COUNTY

SCALE: 1" = 50'
 DATE: 11/13/06

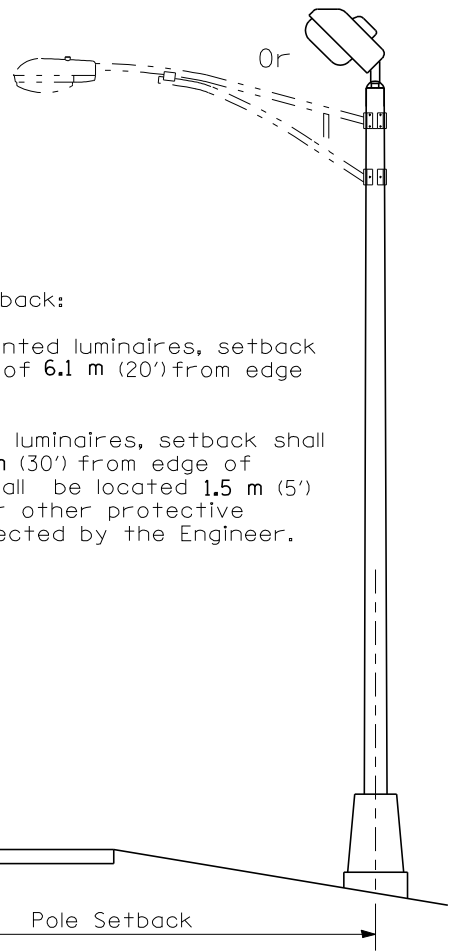
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 CHECKED BY:

PLOT DATE = 12/8/2006
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 PLOT SCALE = 1/85.8824 / IN.
 USER NAME = philipj

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	25

LIGHT POLE MOUNTING HEIGHT	STEEL FOUNDATION				CONCRETE FOUNDATION		
	BOLT CIRCLE DIAMETER	SHAFT DIAMETER	SHAFT DEPTH	TOP PLATE (min)	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH ①
<9.1 m (30')	292 (11.5)	220 (8 ⁵ / ₈)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.52 m (5'-0")	1.45 m (4'-9")
9.4 m - 10.7 m (31'-35')	292 (11.5)	220 (8 ⁵ / ₈)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.67 m (5'-6")	1.60 m (5'-3")
10.9 m - 12.2 m (36'-40')	381 (15) ③	220 (8 ⁵ / ₈)	1.83 m (6') ②	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.83 m (6'-0")	1.75 m (5'-9")
12.5 m - 13.7 m (41'-45')	381 (15) ③	220 (8 ⁵ / ₈)	1.83 m (6') ②	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.98 m (6'-6")	1.90 m (6'-3")
14.0 m - 15.2 m (46'-50')	381 (15) ③	220 (8 ⁵ / ₈)	2.44 m (8')	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	2.13m (7'-0")	2.00 m (6'-9")

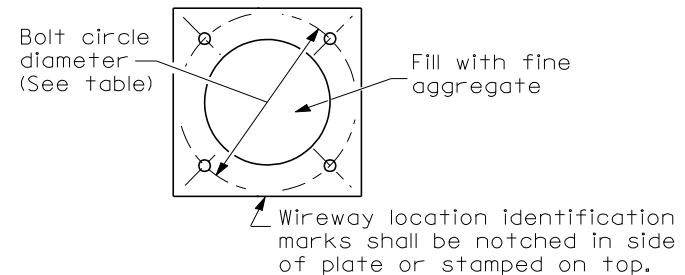
- ① Length does not include 100(4)hook
- ② 220 mm x 2.44 m (8⁵/₈"x 8'-0") for Twin luminaires
- ③ Bolt circle diam. shall be 430 (17) when a TB3-17 transformer base is used



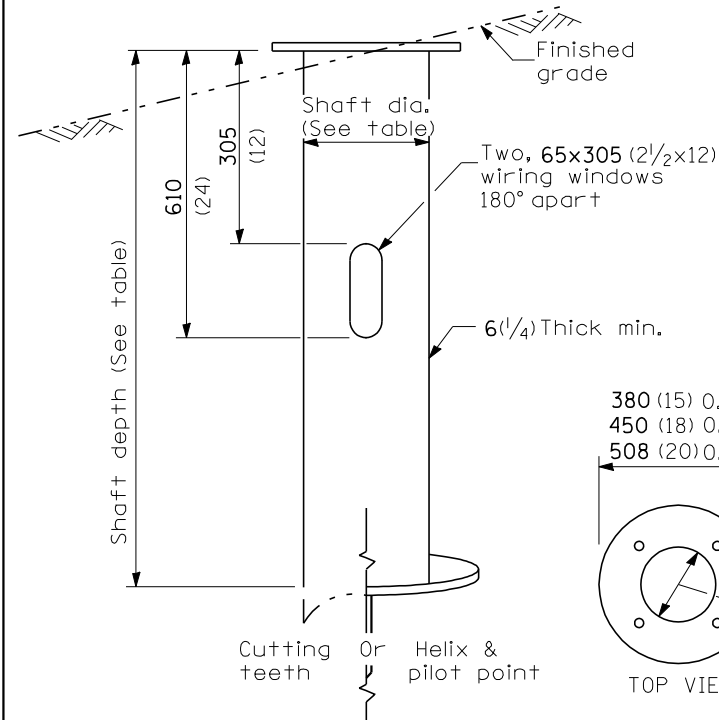
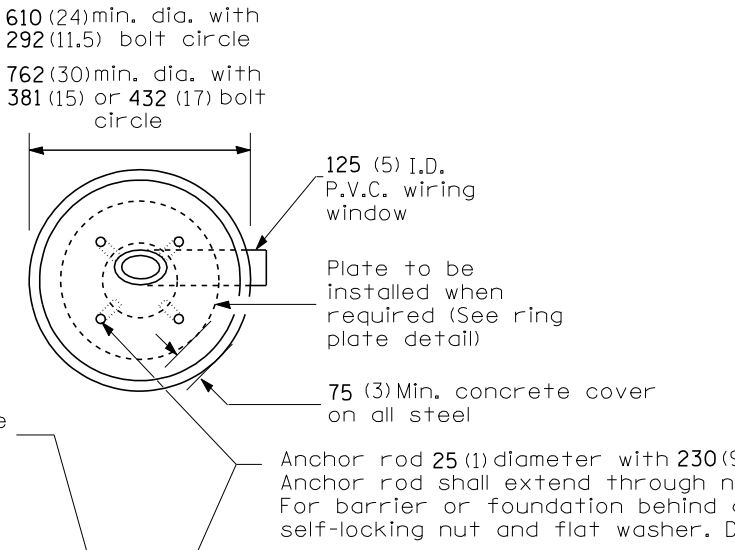
Pole Foundation Setback:

For horizontal mounted luminaires, setback shall be a minimum of 6.1 m (20') from edge of pavement.

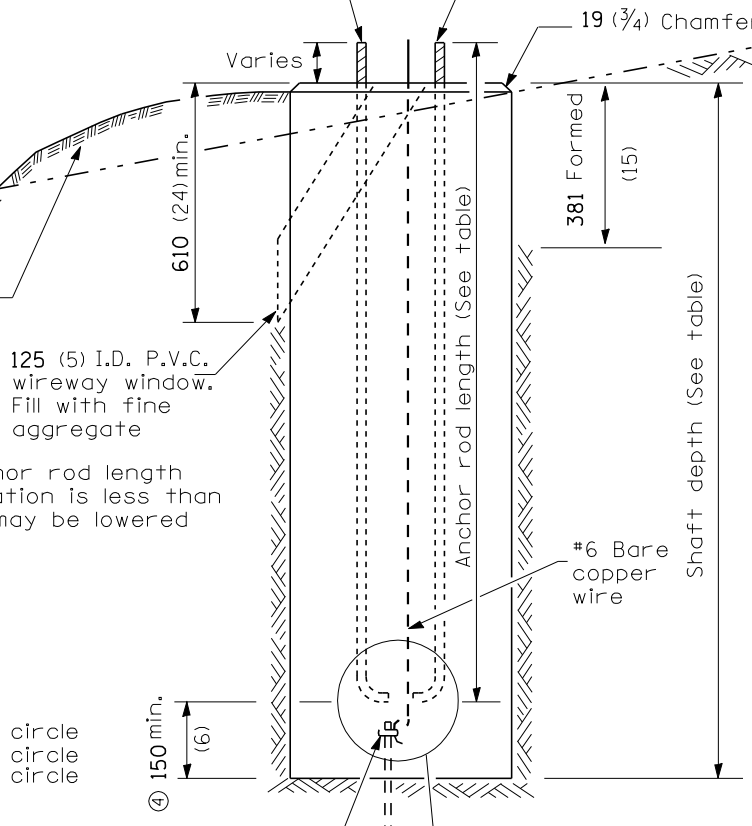
For vertical mount luminaires, setback shall be a minimum of 9 m (30') from edge of pavement. Poles shall be located 1.5 m (5') behind guardrail or other protective barriers, or as directed by the Engineer.



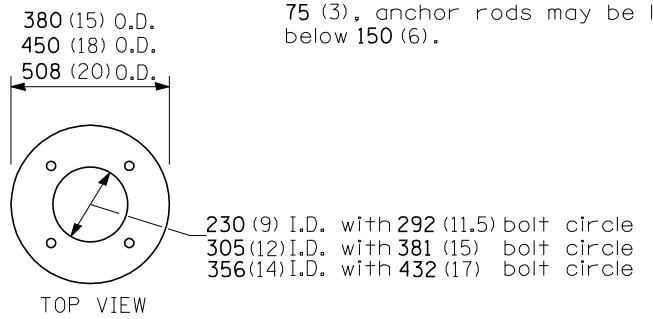
Length above foundation shall be adjusted to accommodate breakaway devices furnished by the contractor for a specific installation.



Use dirt removed from foundation to meet 1.52m (5 ft.) chord fill around foundation top. Grade dirt level with bottom of concrete chamfer.



- ④ If the required anchor rod length above top of foundation is less than 75 (3), anchor rods may be lowered below 150 (6).



RING PLATE DETAIL

(When rock is encountered and foundation is shallower)

Notes:

- 1) Wireway may be on front, back or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.
- 2) Top of schedule 40 125 (5) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.
- 3) All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.
- 4) Anchor rod shall be increased to 31 (1 1/4) diameter for 15.24 (50') mounting height or above.
- 5) TB3-17 transformer base is not to be used on metal foundation

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

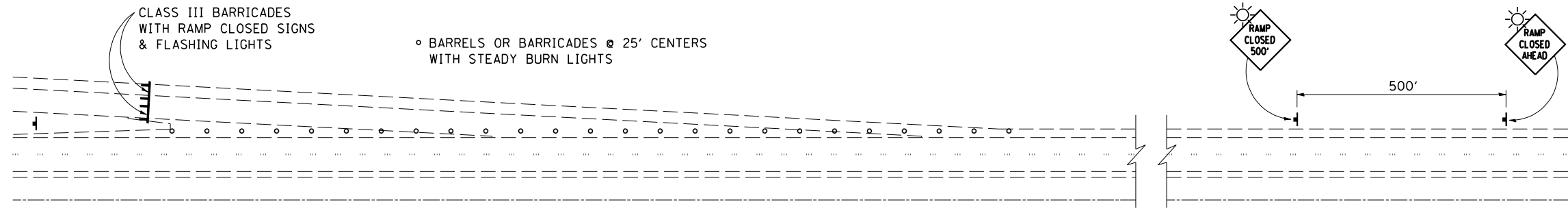
DATE	REVISIONS
10/7/02	Bridge Office depth calc.

LIGHT POLE FOUNDATION

LGT007-836

PLOT DATE = 12/7/2006
 FILE NAME = c:\projects\58408-408 (v8)\70569\detail.dwg
 PLOT SCALE = 211.7647 / IN.
 USER NAME = philippe_j

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	57-18WS-2	MCLEAN	26	26



GENERAL NOTES:

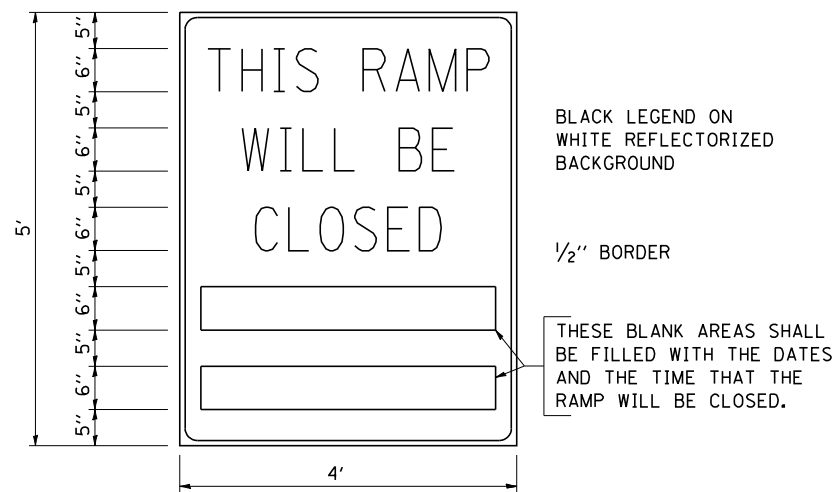
THESE ITEMS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

THE FOLLOWING SIGNS WILL NOT BE NEEDED AS PART OF THIS SET-UP OF TRAFFIC CONTROL AND PROTECTION (SPECIAL):

- 1 - WORK ZONE SPEED LIMIT SIGNS
- 2 - CONSTRUCTION SPEED LIMIT SIGNS
- 3 - END WORK ZONE SPEED LIMIT SIGNS

CONTACT THE DISTRICT TRAFFIC OPERATIONS ENGINEER AT 217-465-4181, ONE WEEK PRIOR TO CLOSING THE RAMP.

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR ROAD CLOSURE FOR WEIGH STATION ENTRANCE RAMP

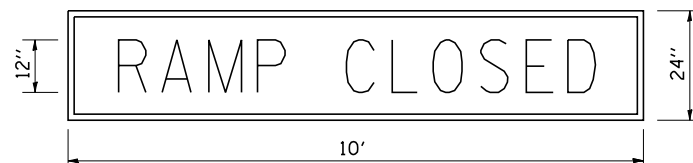


GENERAL NOTES:

1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 INCHES HIGH.
2. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
4. FOR DAYTIME RAMP CLOSURES, LASTING 6 HOURS OR LESS, THE CONTRACTOR MAY ELIMINATE THE ADVANCE WARNING SIGNS ON THE EXIT GUIDE SIGNS.
5. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
6. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO COMPENSATION SHALL BE ALLOWED.
7. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY FOUR (24) HOURS.
8. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR (24) HOURS IN LENGTH.
9. THE CONSTRUCTION SHALL BE DONE IN STAGES. THROUGHOUT THE CONSTRUCTION PROCESS, ONLY ONE WEIGH STATION MAY BE COMPLETELY CLOSED. AT NO TIME SHALL THE CONTRACTOR BE ALLOWED TO WORK ON BOTH LOCATIONS AT THE SAME TIME. ALL WORK MUST BE COMPLETE AND THE SCALES OPERATIONAL PRIOR TO THE CONTRACTOR BEGINNING WORK AT THE SECOND LOCATION.

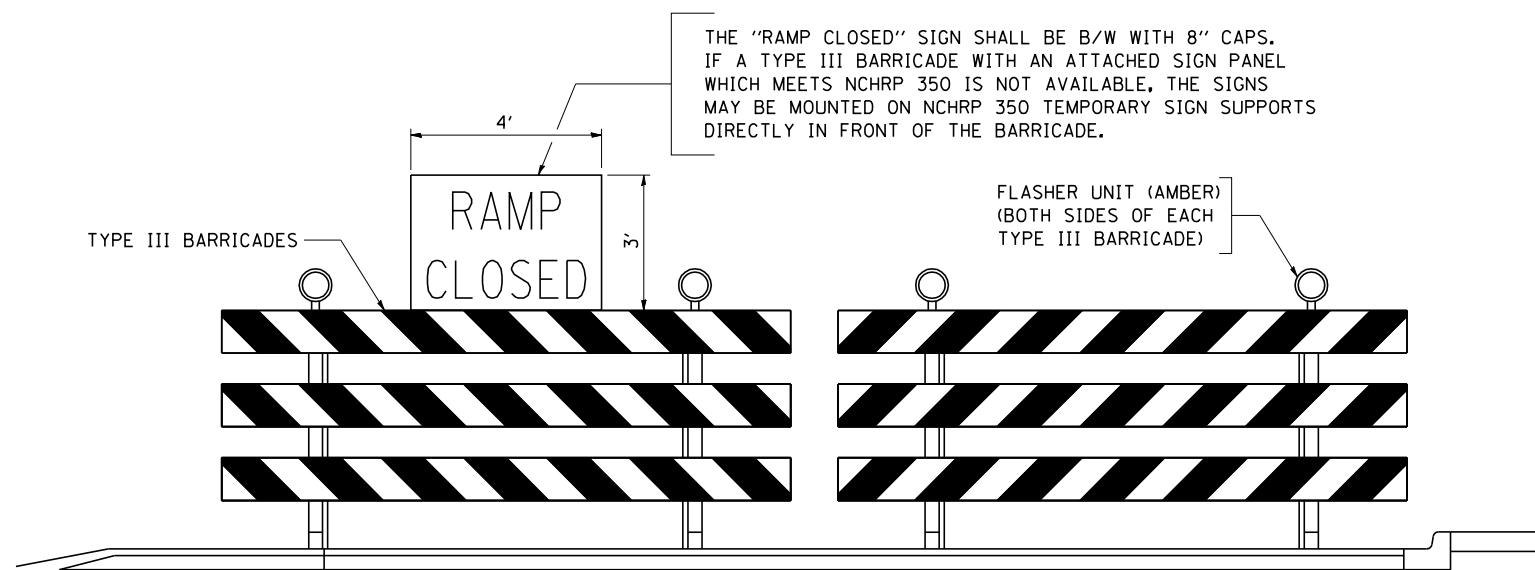
THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, A MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

RAMP CLOSURE ADVANCE INFORMATION SIGN



THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

RAMP CLOSURE ADVANCE WARNING SIGN



DETAIL FOR REQUIRED BARRICADES & SIGNS

ILLINOIS DEPARTMENT OF TRANSPORTATION
**WEIGH STATION
RAMP CLOSURE DETAIL**

F.A.I. ROUTE 74
SECTION 57-18WS-2
MCLEAN COUNTY

SCALE: NOT TO SCALE
DATE: 11-28-06
DRAWN BY: CADD
CHECKED BY: