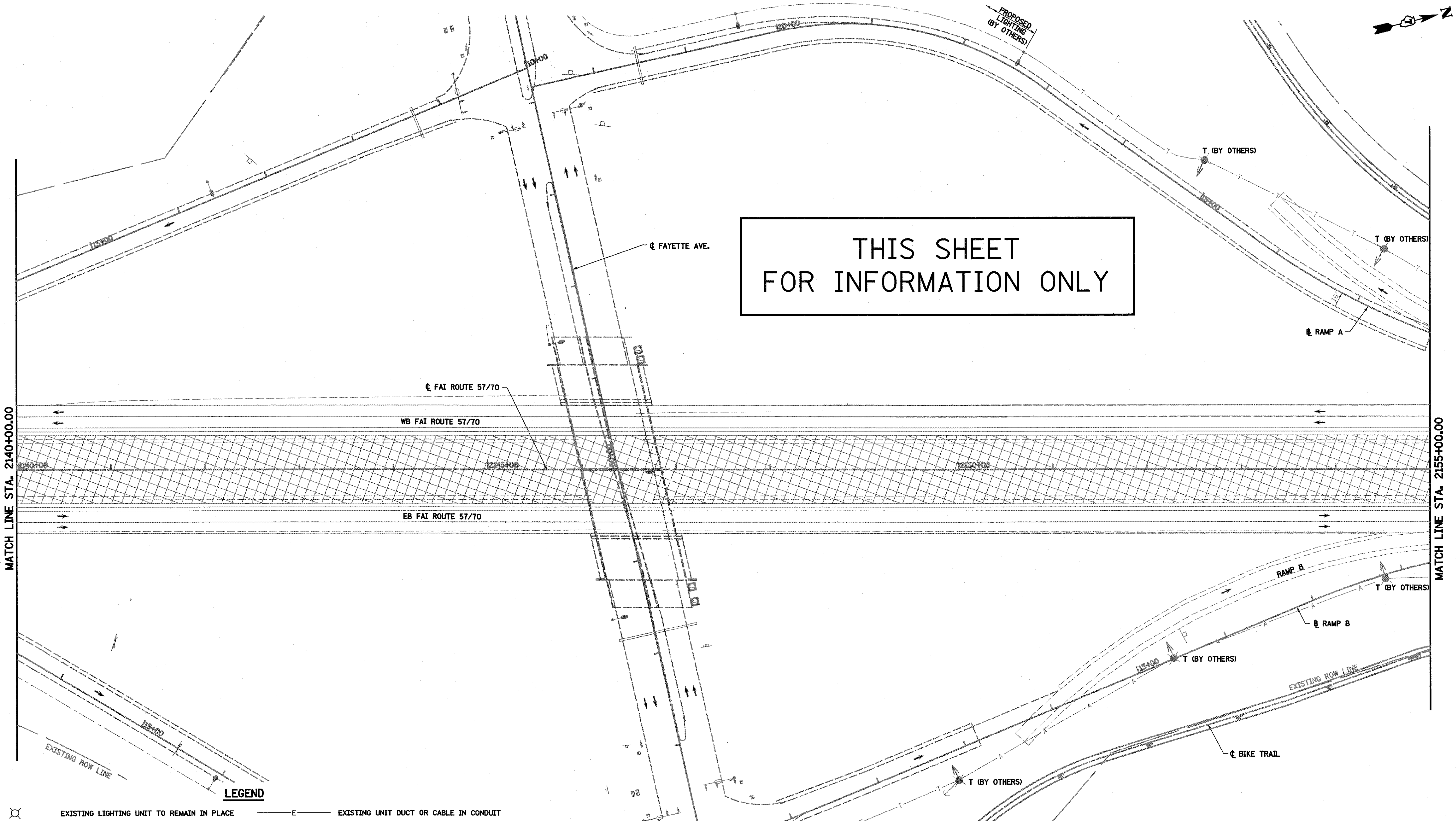


LEGEND

Symbol	Description
	EXISTING LIGHTING UNIT TO REMAIN IN PLACE
R	EXISTING LIGHTING UNIT TO BE REMOVED
ET	EXISTING LIGHTING UNIT USED AS TEMPORARY
	TEMPORARY WOOD POLE, 55 FEET, CLASS 4
	EXISTING LIGHTING CONTROLLER
T	TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT, ARROW INDICATES LUMINAIRE AIMING DIRECTION
	PROPOSED LIGHTING UNIT (BY OTHERS)
——E——	EXISTING UNIT DUCT OR CABLE IN CONDUIT
——A——	AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
——T——	TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE, UNLESS NOTED OTHERWISE
	WORK AREA THIS STAGE
	TEMPORARY PCC PAVEMENT

NOTES:

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. ALL EXISTING CABLE IS TO BE ABANDONED WHEN NO LONGER REQUIRED FOR LIGHTING.
3. TEMPORARY LIGHTING SHOWN IN STAGE 1 IS TO BE CONSTRUCTED IN PRE-STAGE 1 AND ILLUMINATED IN STAGE 1.
4. TEMPORARY WOOD POLES TO BE INSTALLED OUTSIDE THE CLEAR ZONE AT A 30 FT SETBACK MINIMUM FROM EXISTING, TEMPORARY OR PROPOSED ROADWAY EDGE OF PAVEMENT OR 4 FT BEHIND THE GUARDRAIL OR BARRIER UNLESS NOTED OTHERWISE.
5. TEMPORARY WOOD POLES SHALL BE TALLER THAN 55 FEET AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 45 FEET LUMINAIRE MOUNTING HEIGHT.

0 50' 100'

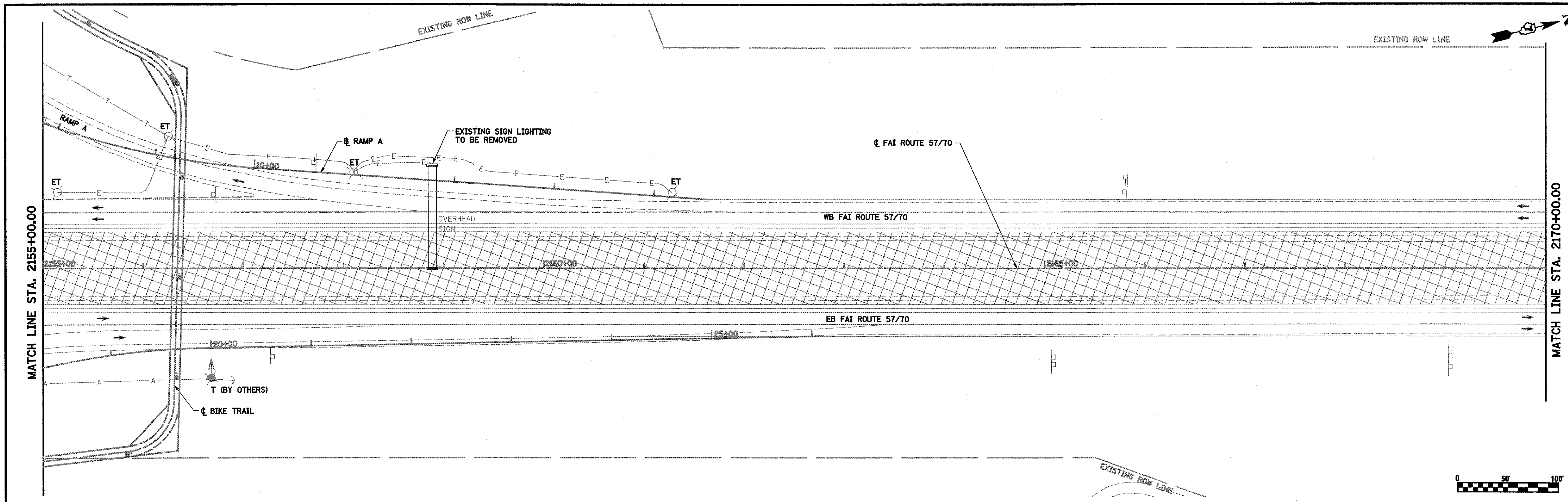
FILE NAME = S:\Projects\483-00072.57-70\dgn\MI_Keller\lighting.rem.stk.stage 1.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

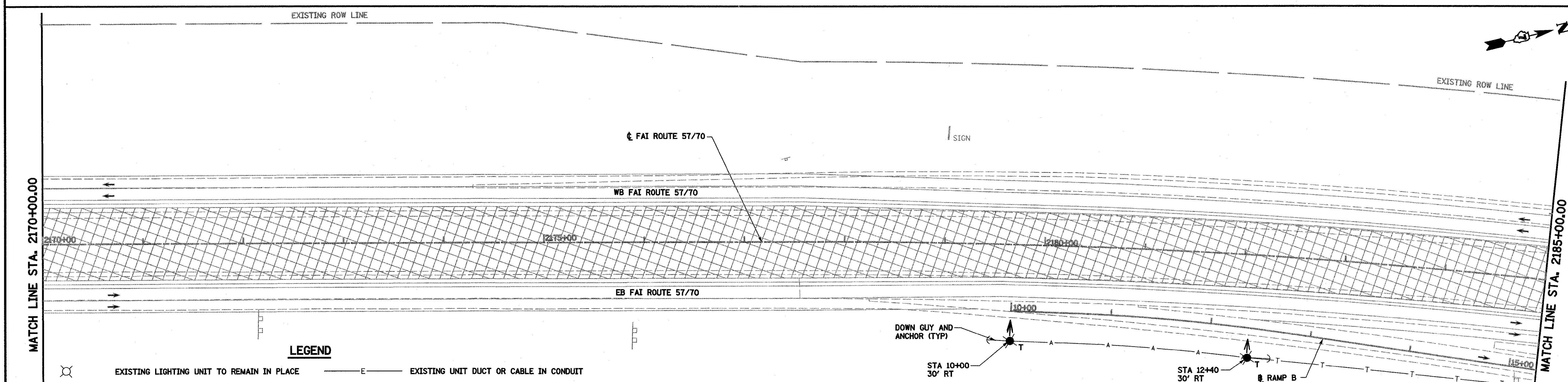
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
FAI ROUTE 57/70, STAGE 1

SCALE: 1"=50' | SHEET NO. 3 OF 34 SHEETS | STA. 2125+00.00 TO STA. 2155+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	301
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





LEGEND

- EXISTING LIGHTING UNIT TO REMAIN IN PLACE
- R — EXISTING LIGHTING UNIT TO BE REMOVED
- ET — EXISTING LIGHTING UNIT USED AS TEMPORARY
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4
- EXISTING LIGHTING CONTROLLER
- T — TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT, ARROW INDICATES LUMINAIRE AIMING DIRECTION
- PROPOSED LIGHTING UNIT (BY OTHERS)
- —E— EXISTING UNIT DUCT OR CABLE IN CONDUIT
- —A— AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
- —T— TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE, UNLESS NOTED OTHERWISE
- WORK AREA THIS STAGE
- TEMPORARY PCC PAVEMENT

NOTES:

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. ALL EXISTING CABLE IS TO BE ABANDONED WHEN NO LONGER REQUIRED FOR LIGHTING.
3. TEMPORARY LIGHTING SHOWN IN STAGE 1 IS TO BE CONSTRUCTED IN PRE-STAGE 1 AND ILLUMINATED IN STAGE 1.
4. TEMPORARY WOOD POLES TO BE INSTALLED OUTSIDE THE CLEAR ZONE AT A 30 FT SETBACK MINIMUM FROM EXISTING, TEMPORARY OR PROPOSED ROADWAY EDGE OF PAVEMENT OR 4 FT BEHIND THE GUARDRAIL OR BARRIER UNLESS NOTED OTHERWISE.
5. TEMPORARY WOOD POLES SHALL BE TALLER THAN 55 FEET AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 45 FEET LUMINAIRE MOUNTING HEIGHT.

FILE NAME = S:\Projects\403-00072_57-70\dgn\HL_Keller\lighting_rem_stk_stage 1.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

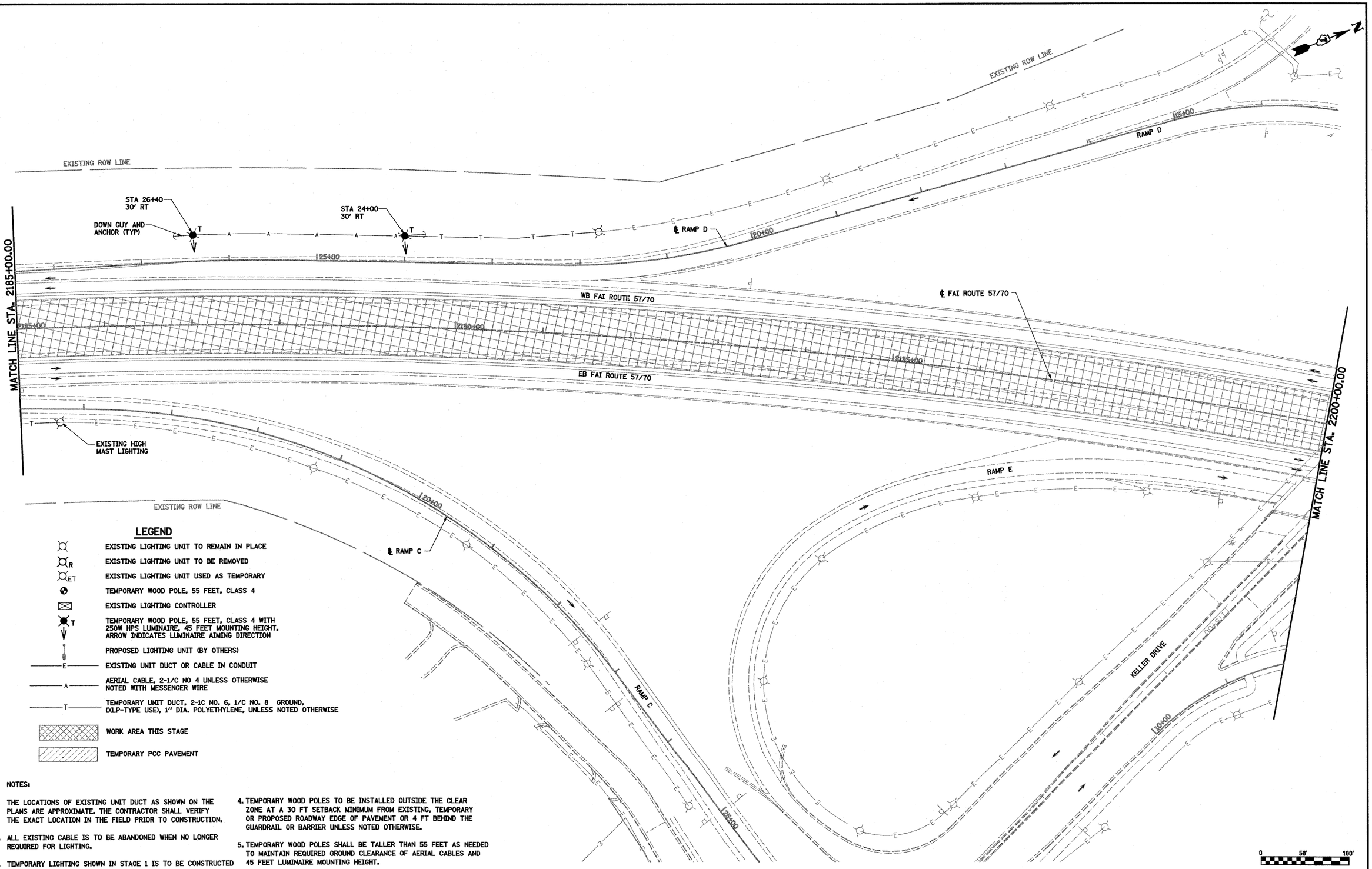
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
FAI ROUTE 57/70, STAGE 1

SCALE: 1"=50' | SHEET NO. 4 OF 34 SHEETS | STA. 2155+00.00 TO STA. 2185+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	302
		CONTRACT NO. 74299		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT



LEGEND

- EXISTING LIGHTING UNIT TO REMAIN IN PLACE
- $_{R}$ EXISTING LIGHTING UNIT TO BE REMOVED
- $_{ET}$ EXISTING LIGHTING UNIT USED AS TEMPORARY
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4
- EXISTING LIGHTING CONTROLLER
- T TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT, ARROW INDICATES LUMINAIRE AIMING DIRECTION
- PROPOSED LIGHTING UNIT (BY OTHERS)
- E EXISTING UNIT DUCT OR CABLE IN CONDUIT
- A AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
- T TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE, UNLESS NOTED OTHERWISE
- WORK AREA THIS STAGE
- TEMPORARY PCC PAVEMENT

NOTES:

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. ALL EXISTING CABLE IS TO BE ABANDONED WHEN NO LONGER REQUIRED FOR LIGHTING.
3. TEMPORARY LIGHTING SHOWN IN STAGE 1 IS TO BE CONSTRUCTED IN PRE-STAGE 1 AND ILLUMINATED IN STAGE 1.
4. TEMPORARY WOOD POLES TO BE INSTALLED OUTSIDE THE CLEAR ZONE AT A 30 FT SETBACK MINIMUM FROM EXISTING, TEMPORARY OR PROPOSED ROADWAY EDGE OF PAVEMENT OR 4 FT BEHIND THE GUARDRAIL OR BARRIER UNLESS NOTED OTHERWISE.
5. TEMPORARY WOOD POLES SHALL BE TALLER THAN 55 FEET AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 45 FEET LUMINAIRE MOUNTING HEIGHT.

S:\Projects\483-R072.57-70\dgn\ML_Keller\lighting_removal_stage 1.dgn

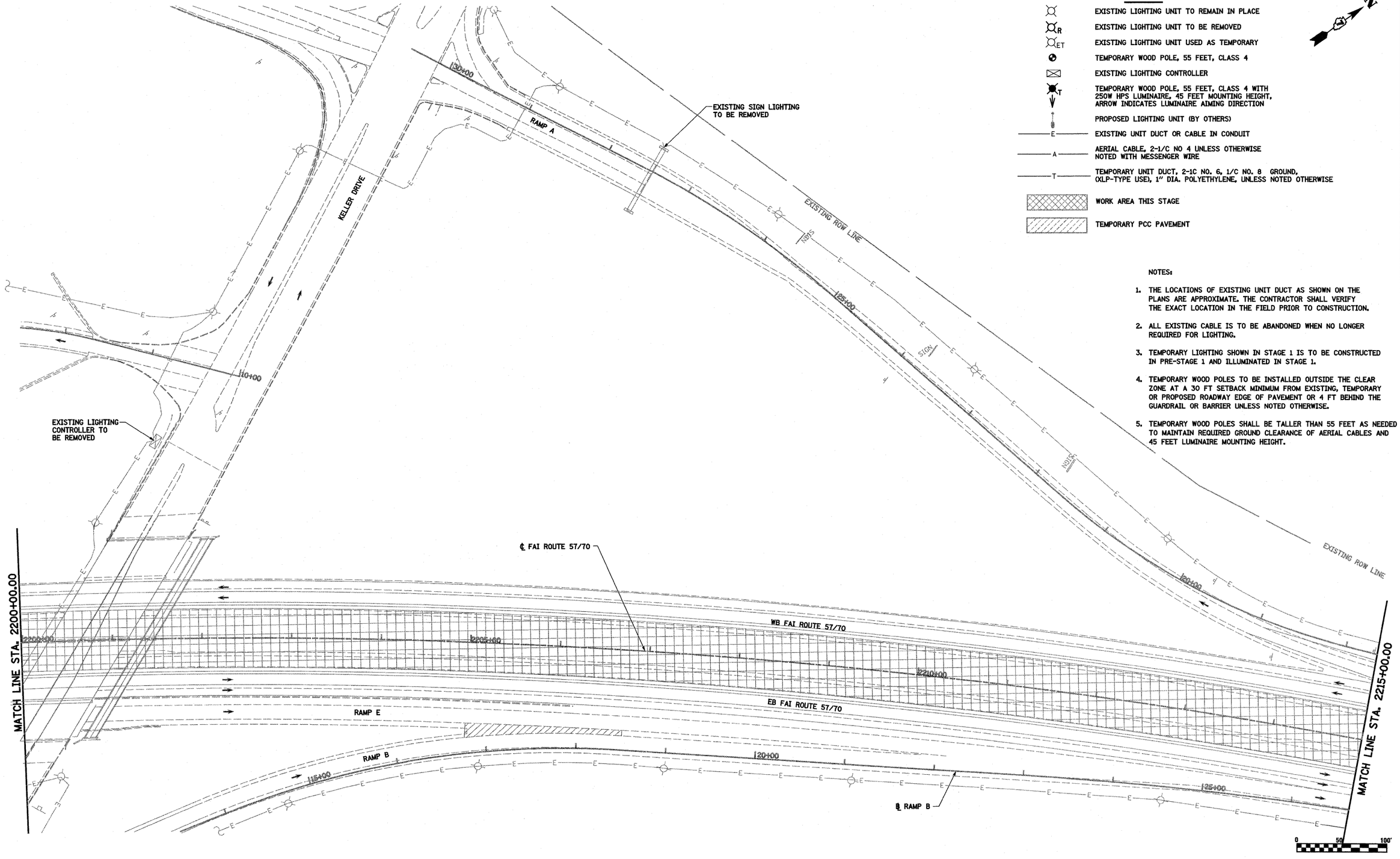
	DESIGNED - VG	REVISED -	
	DRAWN - PDB	REVISED -	
PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -	
PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
FAI ROUTE 57/70, STAGE 1

SCALE: 1"=50' | SHEET NO. 5 OF 34 SHEETS | STA. 2185+00.00 TO STA. 2200+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	303
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. ALL EXISTING CABLE IS TO BE ABANDONED WHEN NO LONGER REQUIRED FOR LIGHTING.
3. TEMPORARY LIGHTING SHOWN IN STAGE 1 IS TO BE CONSTRUCTED IN PRE-STAGE 1 AND ILLUMINATED IN STAGE 1.
4. TEMPORARY WOOD POLES TO BE INSTALLED OUTSIDE THE CLEAR ZONE AT A 30 FT SETBACK MINIMUM FROM EXISTING, TEMPORARY OR PROPOSED ROADWAY EDGE OF PAVEMENT OR 4 FT BEHIND THE GUARDRAIL OR BARRIER UNLESS NOTED OTHERWISE.
5. TEMPORARY WOOD POLES SHALL BE TALLER THAN 55 FEET AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 45 FEET LUMINAIRE MOUNTING HEIGHT.

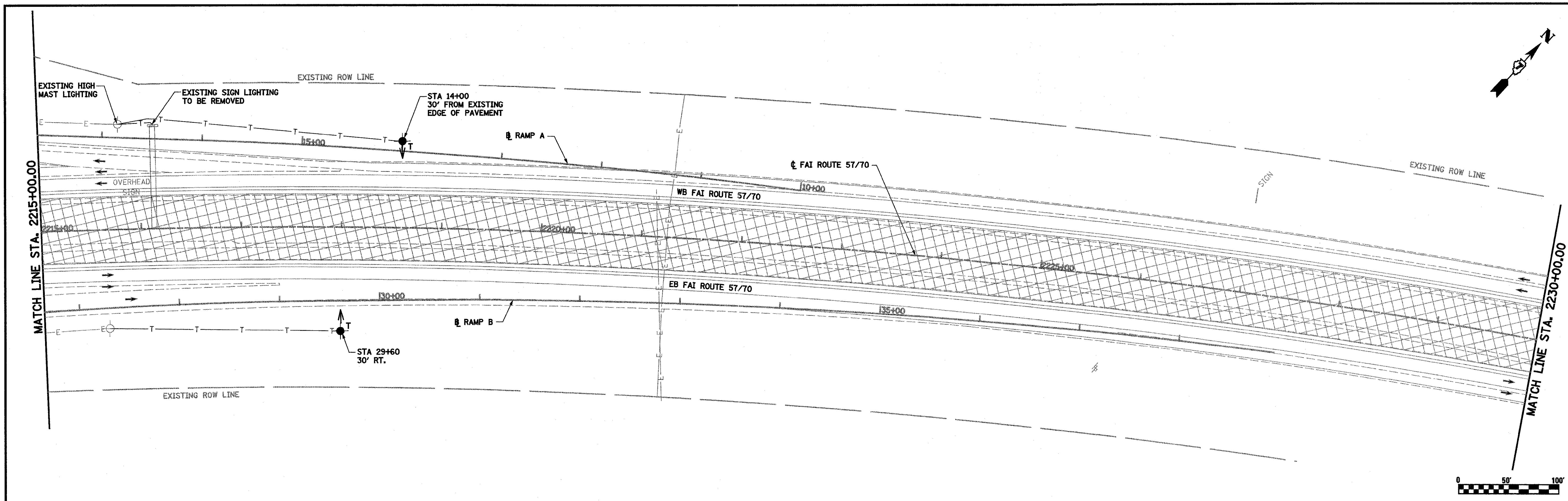
FILE NAME = S:\Projects\083-00072.57-70\dgn\ML_Keller\lighting_removal_stage 1.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

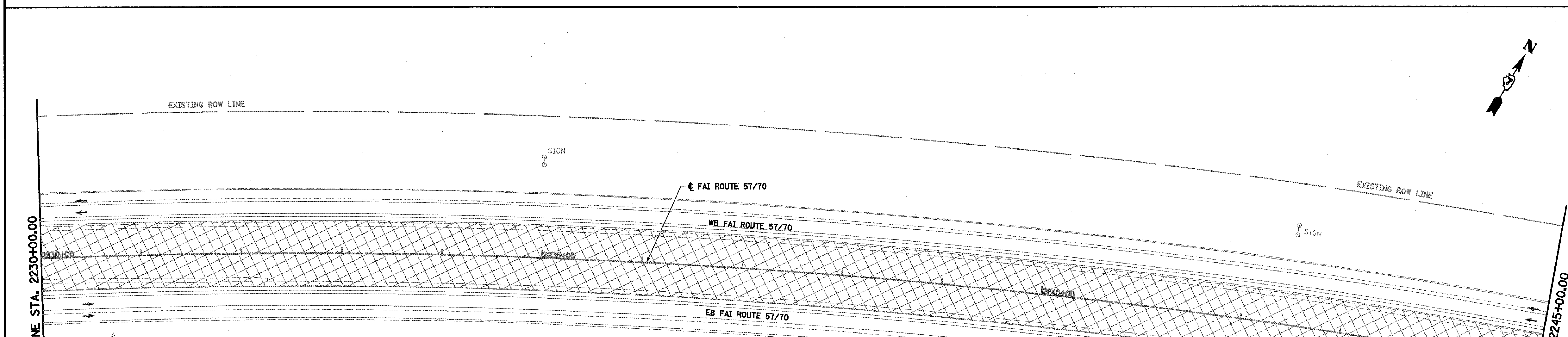
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
FAI ROUTE 57/70, STAGE 1

SCALE: 1"=50' | SHEET NO. 6 OF 34 SHEETS | STA. 2200+00.00 TO STA. 2215+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	304
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





LEGEND

Symbol	Description
	EXISTING LIGHTING UNIT TO REMAIN IN PLACE
R	EXISTING LIGHTING UNIT TO BE REMOVED
ET	EXISTING LIGHTING UNIT USED AS TEMPORARY
	TEMPORARY WOOD POLE, 55 FEET, CLASS 4
	EXISTING LIGHTING CONTROLLER
T	TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT, ARROW INDICATES LUMINAIRE AIMING DIRECTION
	PROPOSED LIGHTING UNIT (BY OTHERS)
——E——	EXISTING UNIT DUCT OR CABLE IN CONDUIT
——A——	AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
——T——	TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE, UNLESS NOTED OTHERWISE
	WORK AREA THIS STAGE
	TEMPORARY PCC PAVEMENT

NOTES:

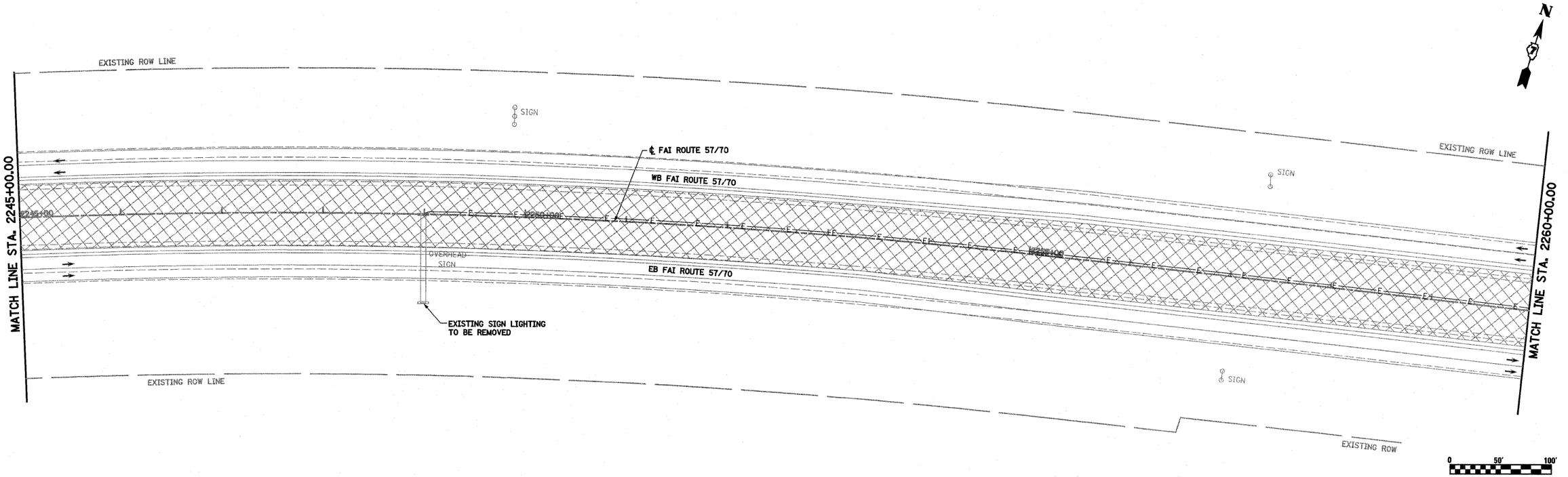
1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. ALL EXISTING CABLE IS TO BE ABANDONED WHEN NO LONGER REQUIRED FOR LIGHTING.
3. TEMPORARY LIGHTING SHOWN IN STAGE 1 IS TO BE CONSTRUCTED IN PRE-STAGE 1 AND ILLUMINATED IN STAGE 1.
4. TEMPORARY WOOD POLES TO BE INSTALLED OUTSIDE THE CLEAR ZONE AT A 30 FT SETBACK MINIMUM FROM EXISTING, TEMPORARY OR PROPOSED ROADWAY EDGE OF PAVEMENT OR 4 FT BEHIND THE GUARDRAIL OR BARRIER UNLESS NOTED OTHERWISE.
5. TEMPORARY WOOD POLES SHALL BE TALLER THAN 55 FEET AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 45 FEET LUMINAIRE MOUNTING HEIGHT.

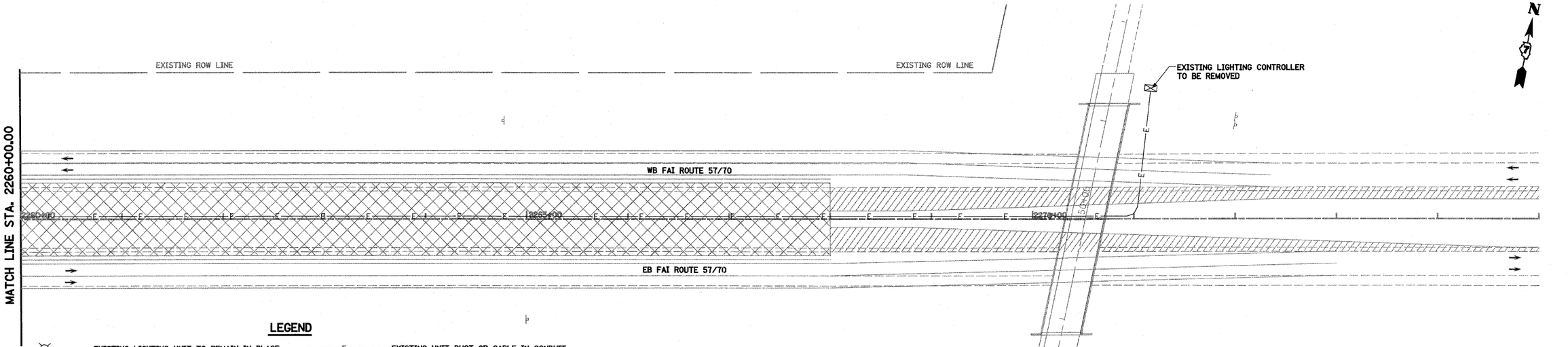
FILE NAME = S:\Projects\483-88872.57-70\dgn\HL_Keller\lighting.rem.alk_stage 1.dgn	USER NAME = paul	DESIGNED - VG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - PDB	REVISED -	
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -	
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -	

EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
FAI ROUTE 57/70, STAGE 1

SCALE: 1"=50' | SHEET NO. 7 OF 34 SHEETS | STA. 2215+00.00 TO STA. 2245+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	305
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





LEGEND

- EXISTING LIGHTING UNIT TO REMAIN IN PLACE
- EXISTING LIGHTING UNIT TO BE REMOVED
- EXISTING LIGHTING UNIT USED AS TEMPORARY
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4
- EXISTING LIGHTING CONTROLLER
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT, ARROW INDICATES LUMINAIRE AIMING DIRECTION
- PROPOSED LIGHTING UNIT (BY OTHERS)
- E — EXISTING UNIT DUCT OR CABLE IN CONDUIT
- A — AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
- T — TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE, UNLESS NOTED OTHERWISE
- WORK AREA THIS STAGE
- TEMPORARY PCC PAVEMENT

NOTES:

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. ALL EXISTING CABLE IS TO BE ABANDONED WHEN NO LONGER REQUIRED FOR LIGHTING.
3. TEMPORARY LIGHTING SHOWN IN STAGE 1 IS TO BE CONSTRUCTED IN PRE-STAGE 1 AND ILLUMINATED IN STAGE 1.
4. TEMPORARY WOOD POLES TO BE INSTALLED OUTSIDE THE CLEAR ZONE AT A 30 FT SETBACK MINIMUM FROM EXISTING, TEMPORARY OR PROPOSED ROADWAY EDGE OF PAVEMENT OR 4 FT BEHIND THE GUARDRAIL OR BARRIER UNLESS NOTED OTHERWISE.
5. TEMPORARY WOOD POLES SHALL BE TALLER THAN 55 FEET AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 45 FEET LUMINAIRE MOUNTING HEIGHT.

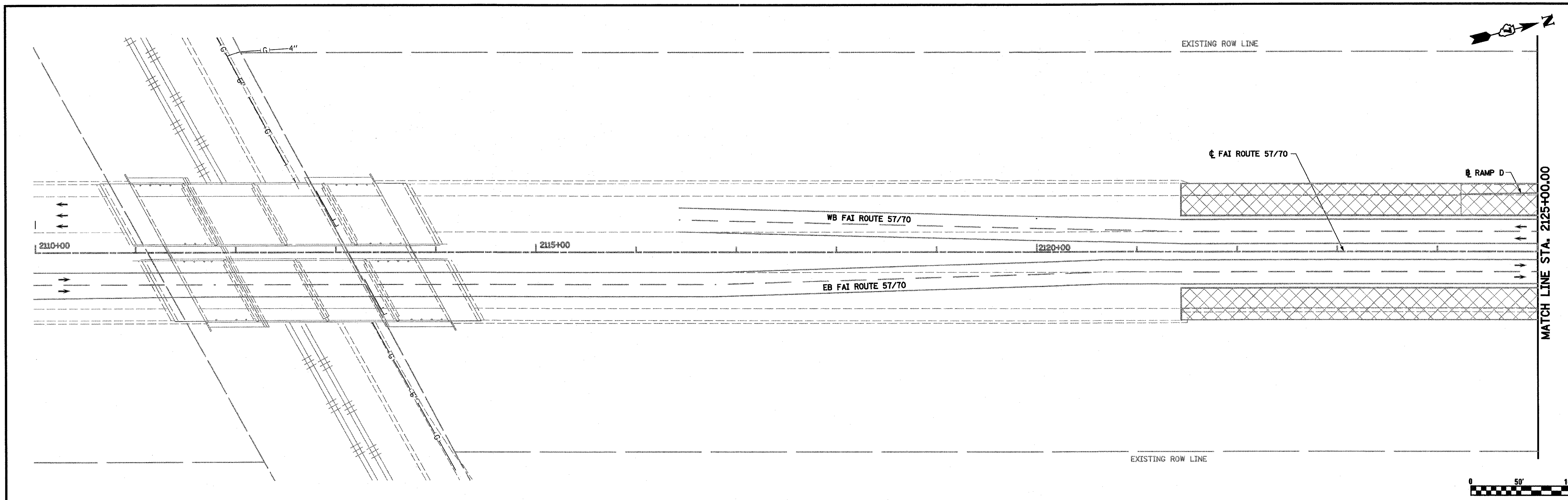
FILE NAME = S:\Projects\685-00072.57-70\dgn\ML_Keller\lighting_removal_stage 1.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

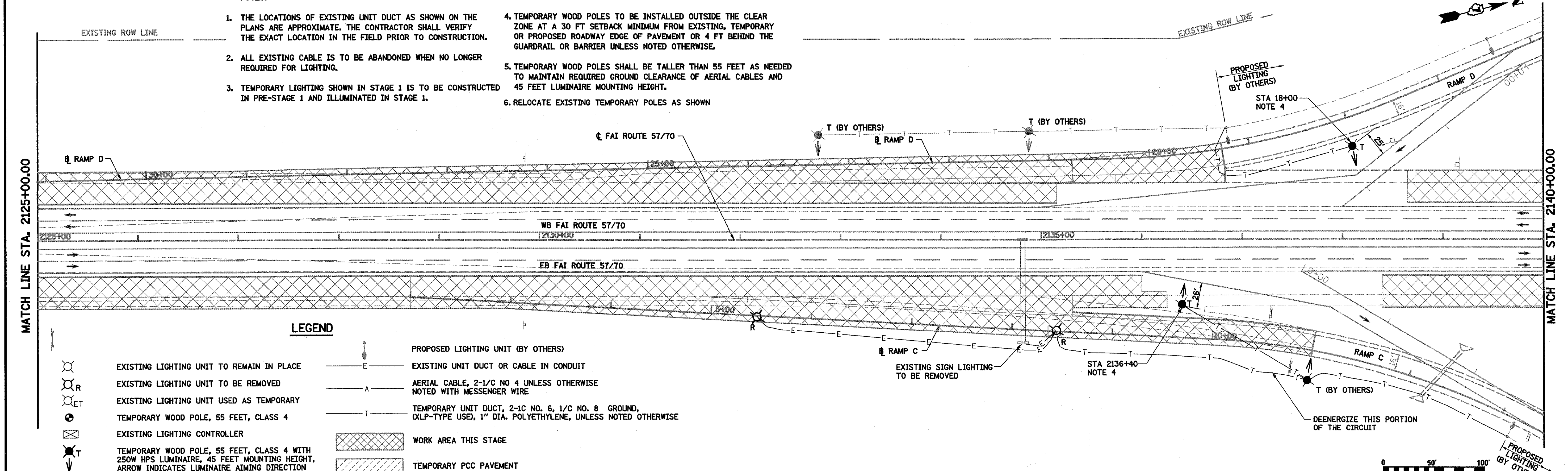
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
FAI ROUTE 57/70, STAGE 1

SCALE: 1"=50' | SHEET NO. 8 OF 34 SHEETS | STA. 2245+00.00 TO STA. 2268+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFEINGHAM	1098	306
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





NOTES:

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. ALL EXISTING CABLE IS TO BE ABANDONED WHEN NO LONGER REQUIRED FOR LIGHTING.
3. TEMPORARY LIGHTING SHOWN IN STAGE 1 IS TO BE CONSTRUCTED IN PRE-STAGE 1 AND ILLUMINATED IN STAGE 1.
4. TEMPORARY WOOD POLES TO BE INSTALLED OUTSIDE THE CLEAR ZONE AT A 30 FT SETBACK MINIMUM FROM EXISTING, TEMPORARY OR PROPOSED ROADWAY EDGE OF PAVEMENT OR 4 FT BEHIND THE GUARDRAIL OR BARRIER UNLESS NOTED OTHERWISE.
5. TEMPORARY WOOD POLES SHALL BE TALLER THAN 55 FEET AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 45 FEET LUMINAIRE MOUNTING HEIGHT.
6. RELOCATE EXISTING TEMPORARY POLES AS SHOWN

LEGEND

- EXISTING LIGHTING UNIT TO REMAIN IN PLACE
- R — EXISTING LIGHTING UNIT TO BE REMOVED
- ET — EXISTING LIGHTING UNIT USED AS TEMPORARY
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4
- EXISTING LIGHTING CONTROLLER
- T — TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT, ARROW INDICATES LUMINAIRE AIMING DIRECTION
- PROPOSED LIGHTING UNIT (BY OTHERS)
- E — EXISTING UNIT DUCT OR CABLE IN CONDUIT
- A — AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
- T — TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE, UNLESS NOTED OTHERWISE
- WORK AREA THIS STAGE
- TEMPORARY PCC PAVEMENT

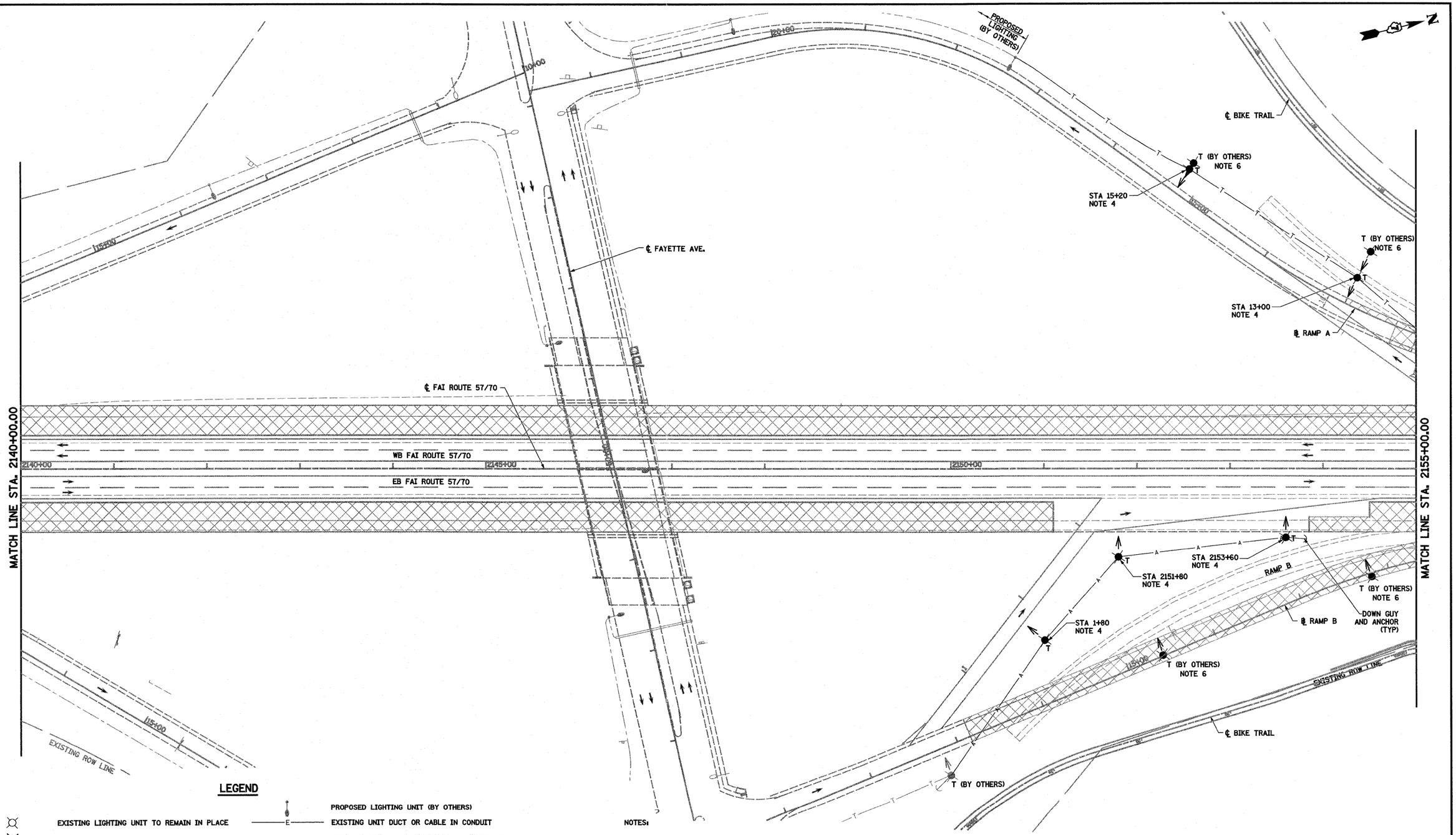
FILE NAME = S:\Projects\463-88072.57-70\dgn\HL_Keller\lighting.rem.stk.stage 2.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
FAI ROUTE 57/70, STAGE 2

SCALE: 1"=50' | SHEET NO. 9 OF 34 SHEETS | STA. 2121+44.00 TO STA. 2125+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	307
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- EXISTING LIGHTING UNIT TO REMAIN IN PLACE
- EXISTING LIGHTING UNIT TO BE REMOVED
- EXISTING LIGHTING UNIT USED AS TEMPORARY
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4
- EXISTING LIGHTING CONTROLLER
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT, ARROW INDICATES LUMINAIRE AIMING DIRECTION
- PROPOSED LIGHTING UNIT (BY OTHERS)
- E — EXISTING UNIT DUCT OR CABLE IN CONDUIT
- A — AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
- T — TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE, UNLESS NOTED OTHERWISE
- WORK AREA THIS STAGE
- TEMPORARY PCC PAVEMENT

NOTES:

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. ALL EXISTING CABLE IS TO BE ABANDONED WHEN NO LONGER REQUIRED FOR LIGHTING.
3. TEMPORARY LIGHTING SHOWN IN STAGE 1 IS TO BE CONSTRUCTED IN PRE-STAGE 1 AND ILLUMINATED IN STAGE 1.
4. TEMPORARY WOOD POLES TO BE INSTALLED OUTSIDE THE CLEAR ZONE AT A 30 FT SETBACK MINIMUM FROM EXISTING, TEMPORARY OR PROPOSED ROADWAY EDGE OF PAVEMENT OR 4 FT BEHIND THE GUARDRAIL OR BARRIER UNLESS NOTED OTHERWISE.
5. TEMPORARY WOOD POLES SHALL BE TALLER THAN 55 FEET AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 45 FEET LUMINAIRE MOUNTING HEIGHT.
6. RELOCATE EXISTING TEMPORARY POLES AS SHOWN

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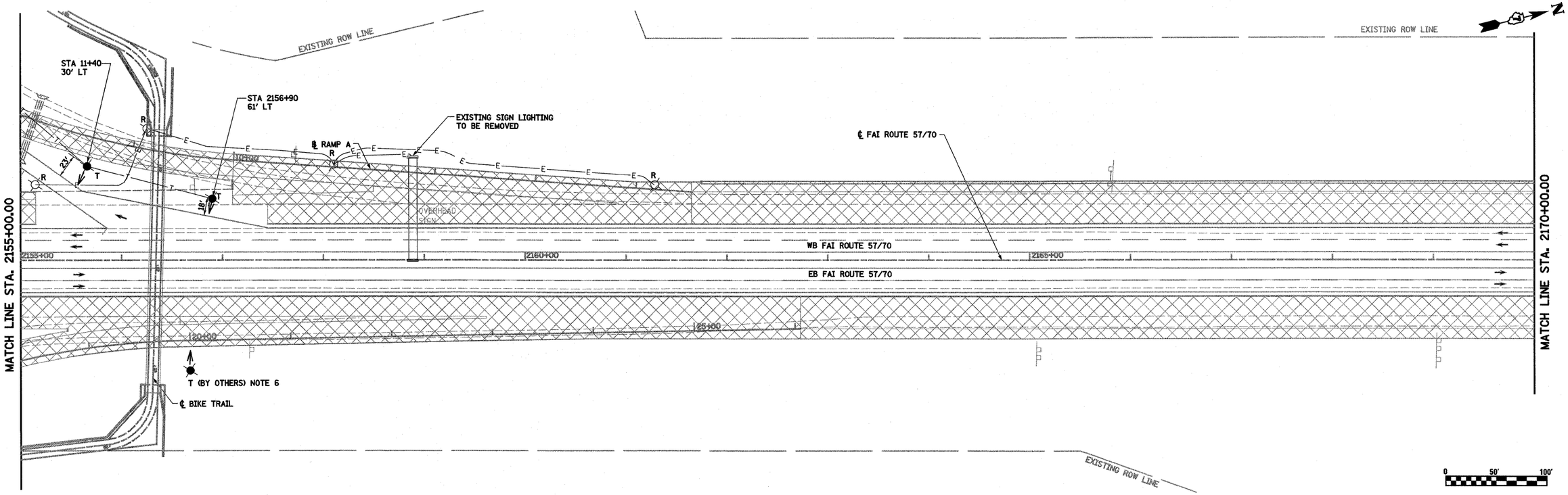
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

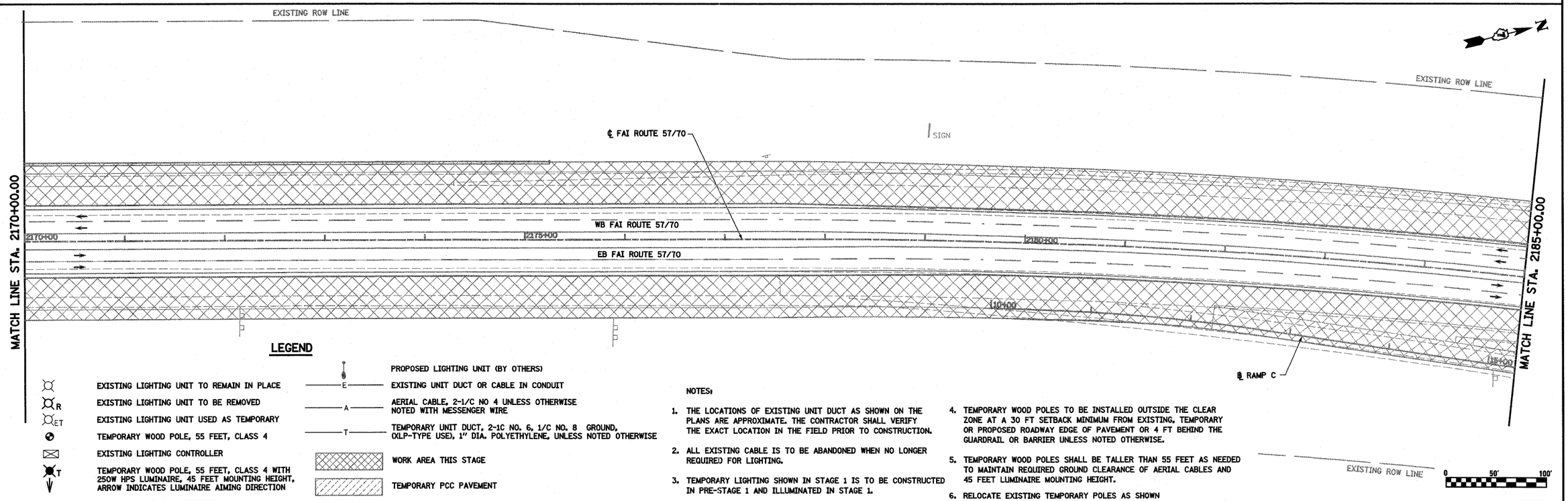
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
FAI ROUTE 57/70, STAGE 2

SCALE: 1"=50' | SHEET NO. 10 OF 34 SHEETS | STA. 2125+00.00 TO STA. 2155+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	308
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





LEGEND

- EXISTING LIGHTING UNIT TO REMAIN IN PLACE
- EXISTING LIGHTING UNIT TO BE REMOVED
- EXISTING LIGHTING UNIT USED AS TEMPORARY
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4
- EXISTING LIGHTING CONTROLLER
- TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT, ARROW INDICATES LUMINAIRE AIMING DIRECTION
- PROPOSED LIGHTING UNIT (BY OTHERS)
- E — EXISTING UNIT DUCT OR CABLE IN CONDUIT
- A — AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
- T — TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE, UNLESS NOTED OTHERWISE
- WORK AREA THIS STAGE
- TEMPORARY PCC PAVEMENT

NOTES:

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. ALL EXISTING CABLE IS TO BE ABANDONED WHEN NO LONGER REQUIRED FOR LIGHTING.
3. TEMPORARY LIGHTING SHOWN IN STAGE 1 IS TO BE CONSTRUCTED IN PRE-STAGE 1 AND ILLUMINATED IN STAGE 1.
4. TEMPORARY WOOD POLES TO BE INSTALLED OUTSIDE THE CLEAR ZONE AT A 30 FT SETBACK MINIMUM FROM EXISTING, TEMPORARY OR PROPOSED ROADWAY EDGE OF PAVEMENT OR 4 FT BEHIND THE GUARDRAIL OR BARRIER UNLESS NOTED OTHERWISE.
5. TEMPORARY WOOD POLES SHALL BE TALLER THAN 55 FEET AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 45 FEET LUMINAIRE MOUNTING HEIGHT.
6. RELOCATE EXISTING TEMPORARY POLES AS SHOWN

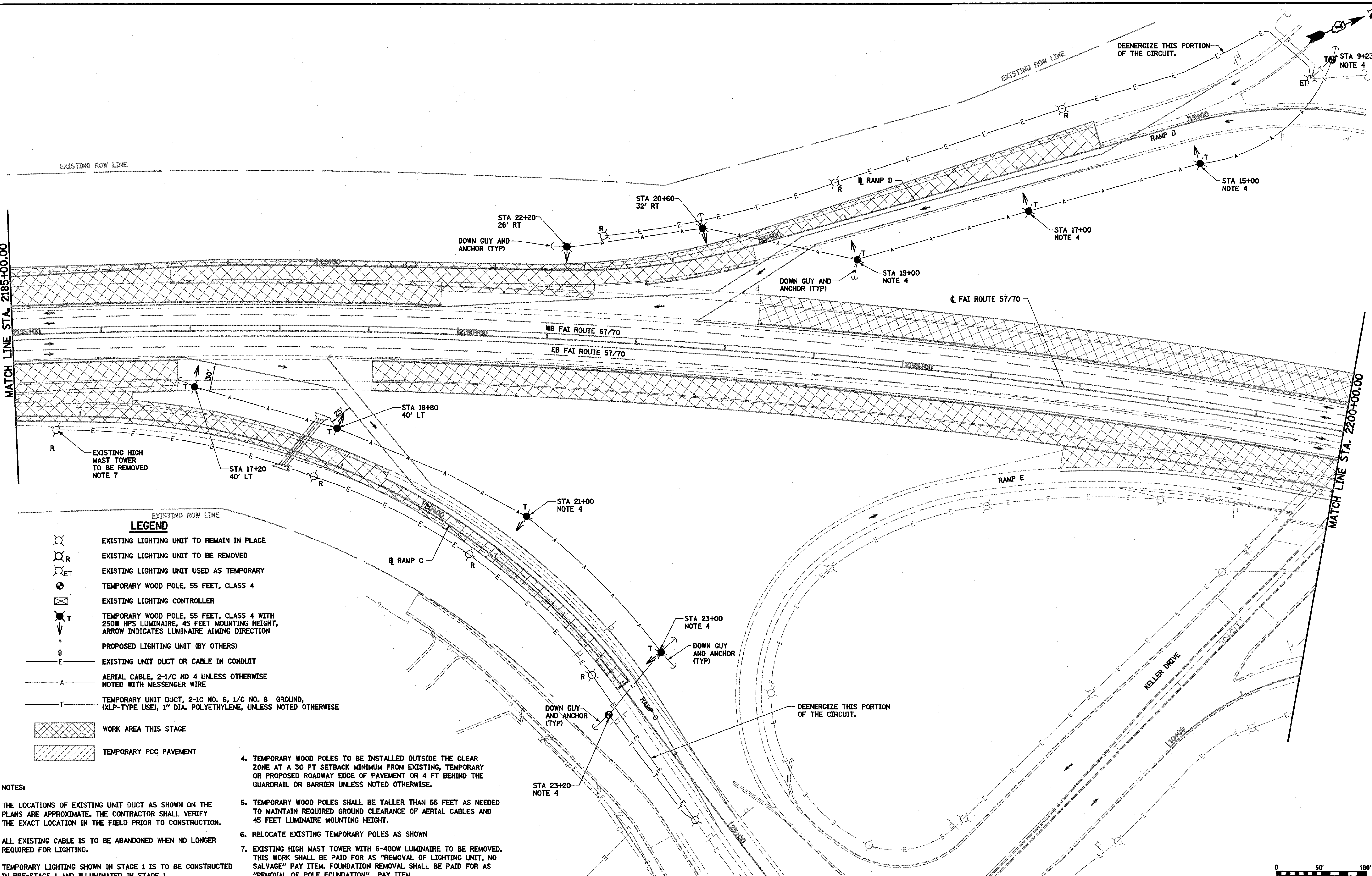
FILE NAME = S:\Projects\483-R007.57-70\dgn\ML_Keller\lighting_removal_stage 2.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
FAI ROUTE 57/70, STAGE 2

SCALE: 1"=50' | SHEET NO. 11 OF 34 SHEETS | STA. 2155+00.00 TO STA. 2185+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	309
		CONTRACT NO. 74299		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		



LEGEND

☒	EXISTING LIGHTING UNIT TO REMAIN IN PLACE
☒R	EXISTING LIGHTING UNIT TO BE REMOVED
☒ET	EXISTING LIGHTING UNIT USED AS TEMPORARY
●	TEMPORARY WOOD POLE, 55 FEET, CLASS 4
⊠	EXISTING LIGHTING CONTROLLER
●T	TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT, ARROW INDICATES LUMINAIRE AIMING DIRECTION
	PROPOSED LIGHTING UNIT (BY OTHERS)
——E——	EXISTING UNIT DUCT OR CABLE IN CONDUIT
——A——	AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
——T——	TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE, UNLESS NOTED OTHERWISE
	WORK AREA THIS STAGE
	TEMPORARY PCC PAVEMENT

NOTES:

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. ALL EXISTING CABLE IS TO BE ABANDONED WHEN NO LONGER REQUIRED FOR LIGHTING.
3. TEMPORARY LIGHTING SHOWN IN STAGE 1 IS TO BE CONSTRUCTED IN PRE-STAGE 1 AND ILLUMINATED IN STAGE 1.
4. TEMPORARY WOOD POLES TO BE INSTALLED OUTSIDE THE CLEAR ZONE AT A 30 FT SETBACK MINIMUM FROM EXISTING, TEMPORARY OR PROPOSED ROADWAY EDGE OF PAVEMENT OR 4 FT BEHIND THE GUARDRAIL OR BARRIER UNLESS NOTED OTHERWISE.
5. TEMPORARY WOOD POLES SHALL BE TALLER THAN 55 FEET AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 45 FEET LUMINAIRE MOUNTING HEIGHT.
6. RELOCATE EXISTING TEMPORARY POLES AS SHOWN
7. EXISTING HIGH MAST TOWER WITH 6-400W LUMINAIRE TO BE REMOVED. THIS WORK SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" PAY ITEM. FOUNDATION REMOVAL SHALL BE PAID FOR AS "REMOVAL OF POLE FOUNDATION" PAY ITEM.

0 50' 100'

	DESIGNED - VG	REVISED -	
	DRAWN - PDB	REVISED -	STATE OF ILLINOIS
PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -	DEPARTMENT OF TRANSPORTATION
PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -	

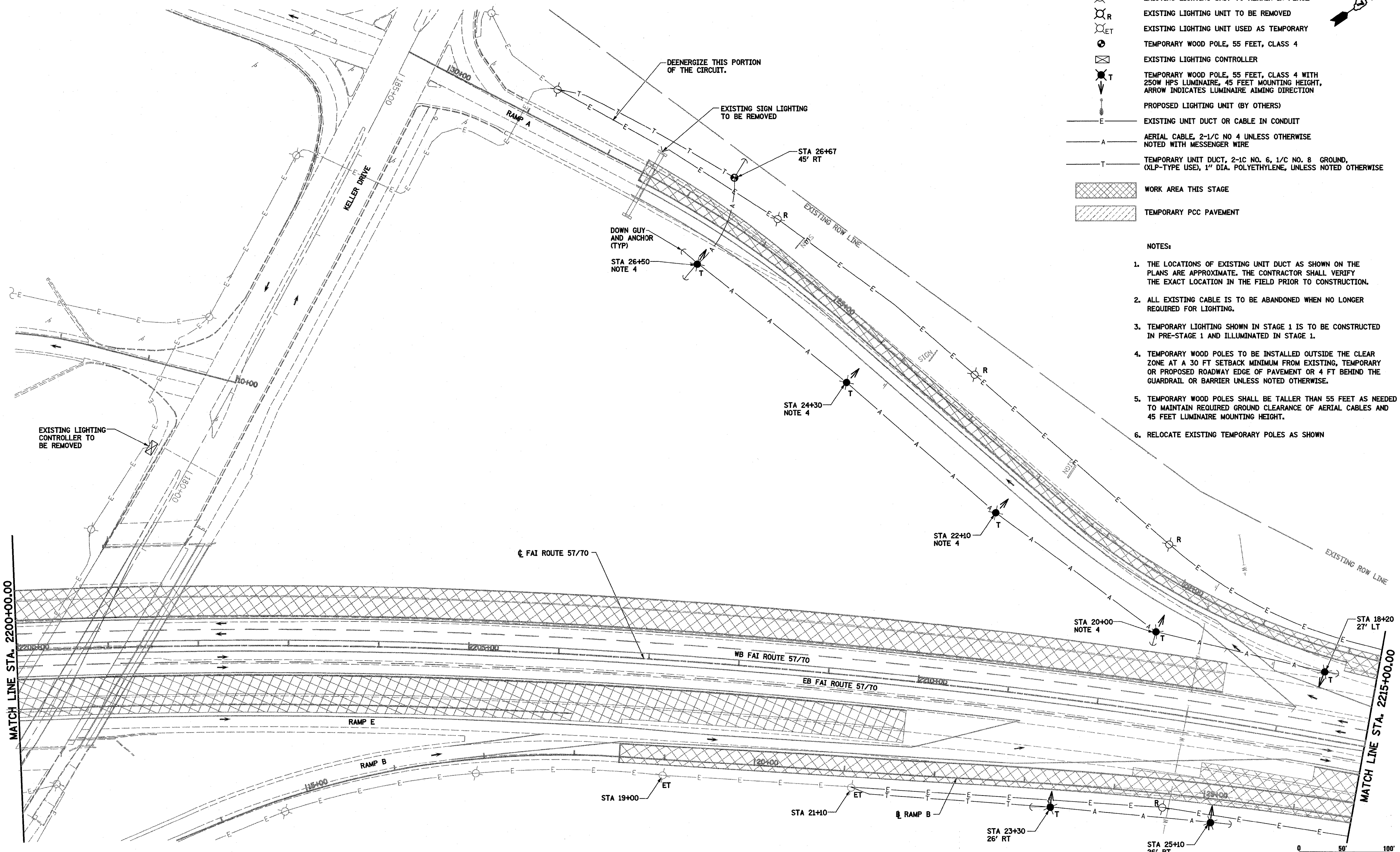
EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
FAI ROUTE 57/70, STAGE 2

SCALE: 1"=50' | SHEET NO. 12 OF 34 SHEETS | STA. 2185+00.00 TO STA. 2200+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	310
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

Symbol	Description
	EXISTING LIGHTING UNIT TO REMAIN IN PLACE
R	EXISTING LIGHTING UNIT TO BE REMOVED
ET	EXISTING LIGHTING UNIT USED AS TEMPORARY
	TEMPORARY WOOD POLE, 55 FEET, CLASS 4
	EXISTING LIGHTING CONTROLLER
T	TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT, ARROW INDICATES LUMINAIRE AIMING DIRECTION
	PROPOSED LIGHTING UNIT (BY OTHERS)
——E——	EXISTING UNIT DUCT OR CABLE IN CONDUIT
——A——	AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
——T——	TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE, UNLESS NOTED OTHERWISE
	WORK AREA THIS STAGE
	TEMPORARY PCC PAVEMENT



NOTES:

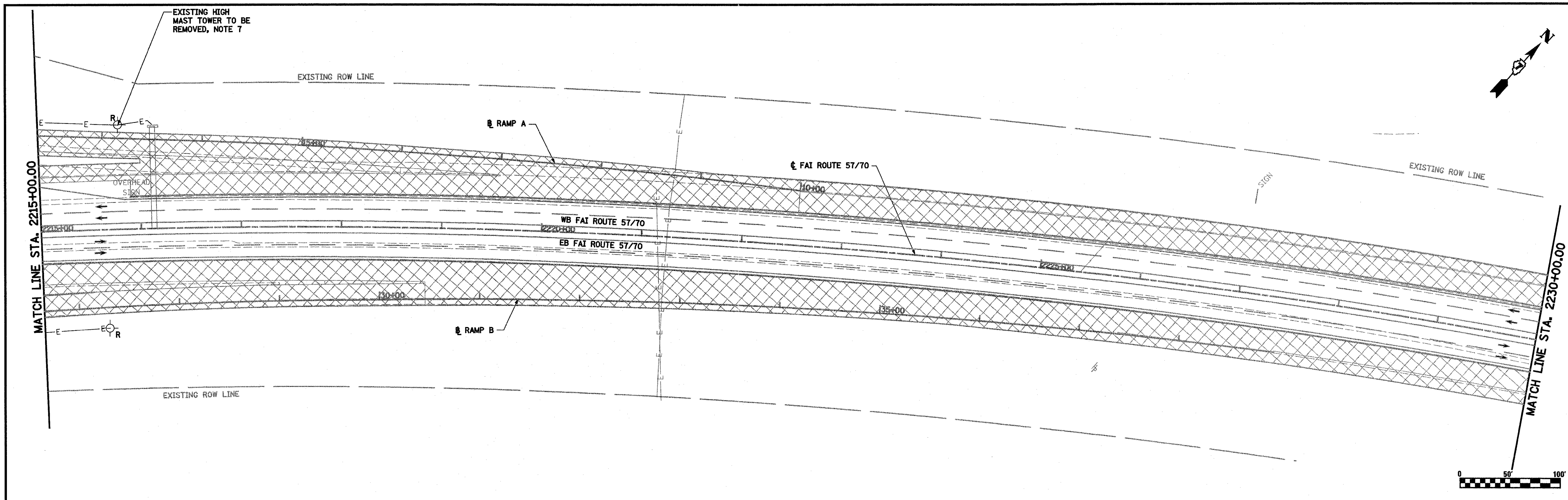
1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. ALL EXISTING CABLE IS TO BE ABANDONED WHEN NO LONGER REQUIRED FOR LIGHTING.
3. TEMPORARY LIGHTING SHOWN IN STAGE 1 IS TO BE CONSTRUCTED IN PRE-STAGE 1 AND ILLUMINATED IN STAGE 1.
4. TEMPORARY WOOD POLES TO BE INSTALLED OUTSIDE THE CLEAR ZONE AT A 30 FT SETBACK MINIMUM FROM EXISTING, TEMPORARY OR PROPOSED ROADWAY EDGE OF PAVEMENT OR 4 FT BEHIND THE GUARDRAIL OR BARRIER UNLESS NOTED OTHERWISE.
5. TEMPORARY WOOD POLES SHALL BE TALLER THAN 55 FEET AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 45 FEET LUMINAIRE MOUNTING HEIGHT.
6. RELOCATE EXISTING TEMPORARY POLES AS SHOWN

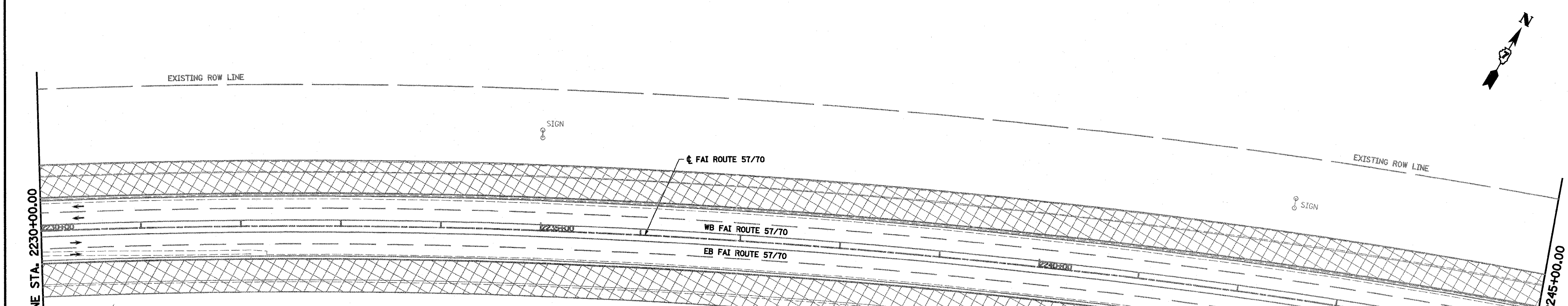
FILE NAME = S:\Projects\403-00072_57-70\dgn\HL_Keller\lighting_rem_alk_stage 2.dgn	USER NAME = paul	DESIGNED - VG	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - PDB	REVISED -	
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -	
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -	

EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
FAI ROUTE 57/70, STAGE 2

SCALE: 1"=50'	SHEET NO. 13 OF 34 SHEETS	STA. 2200+00.00 TO STA. 2215+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	311
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





LEGEND

Symbol	Description
	EXISTING LIGHTING UNIT TO REMAIN IN PLACE
R	EXISTING LIGHTING UNIT TO BE REMOVED
ET	EXISTING LIGHTING UNIT USED AS TEMPORARY
	TEMPORARY WOOD POLE, 55 FEET, CLASS 4
	EXISTING LIGHTING CONTROLLER
T	TEMPORARY WOOD POLE, 55 FEET, CLASS 4 WITH 250W HPS LUMINAIRE, 45 FEET MOUNTING HEIGHT, ARROW INDICATES LUMINAIRE AIMING DIRECTION
	PROPOSED LIGHTING UNIT (BY OTHERS)
E	EXISTING UNIT DUCT OR CABLE IN CONDUIT
A	AERIAL CABLE, 2-1/C NO 4 UNLESS OTHERWISE NOTED WITH MESSENGER WIRE
T	TEMPORARY UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE, UNLESS NOTED OTHERWISE
	WORK AREA THIS STAGE
	TEMPORARY PCC PAVEMENT

NOTES:

1. THE LOCATIONS OF EXISTING UNIT DUCT AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN THE FIELD PRIOR TO CONSTRUCTION.
2. ALL EXISTING CABLE IS TO BE ABANDONED WHEN NO LONGER REQUIRED FOR LIGHTING.
3. TEMPORARY LIGHTING SHOWN IN STAGE 1 IS TO BE CONSTRUCTED IN PRE-STAGE 1 AND ILLUMINATED IN STAGE 1.
4. TEMPORARY WOOD POLES TO BE INSTALLED OUTSIDE THE CLEAR ZONE AT A 30 FT SETBACK MINIMUM FROM EXISTING, TEMPORARY OR PROPOSED ROADWAY EDGE OF PAVEMENT OR 4 FT BEHIND THE GUARDRAIL OR BARRIER UNLESS NOTED OTHERWISE.
5. TEMPORARY WOOD POLES SHALL BE TALLER THAN 55 FEET AS NEEDED TO MAINTAIN REQUIRED GROUND CLEARANCE OF AERIAL CABLES AND 45 FEET LUMINAIRE MOUNTING HEIGHT.
6. RELOCATE EXISTING TEMPORARY POLES AS SHOWN
7. EXISTING HIGH MAST TOWER WITH 6-400W LUMINAIRE TO BE REMOVED. THIS WORK SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" PAY ITEM. FOUNDATION REMOVAL SHALL BE PAID FOR AS "REMOVAL OF POLE FOUNDATION" PAY ITEM.

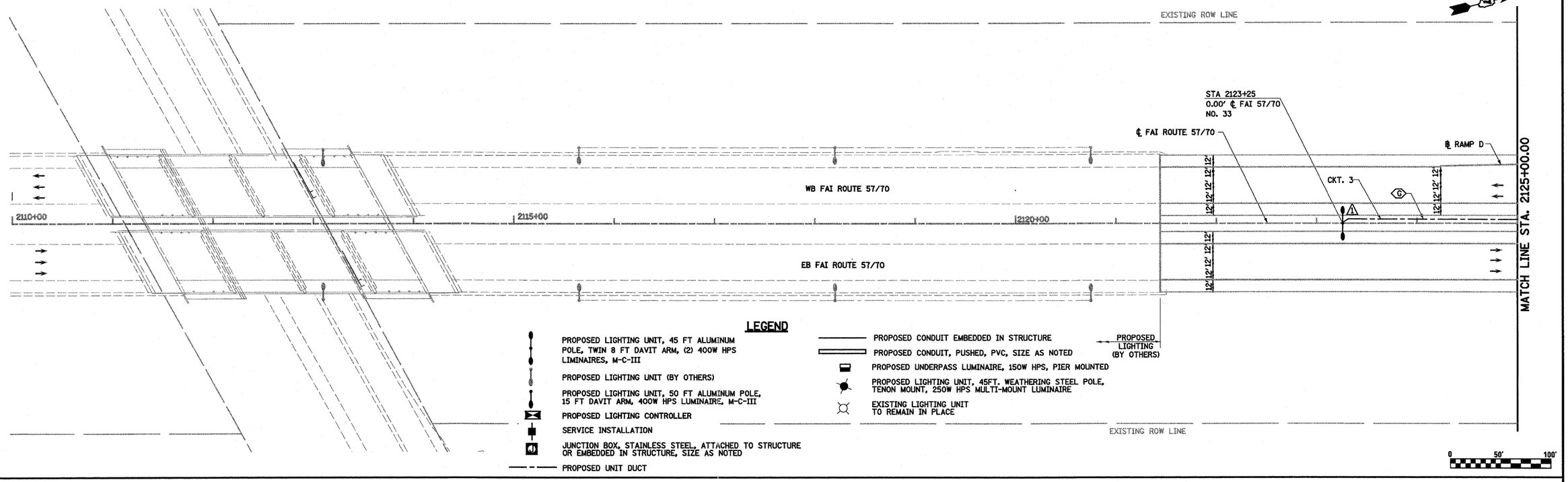
FILE NAME = S:\Projects\483-88072.57-70\dgn\WL_Keller\lighting.rem.alk.stage 2.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL AND TEMPORARY LIGHTING
FAI ROUTE 57/70, STAGE 2

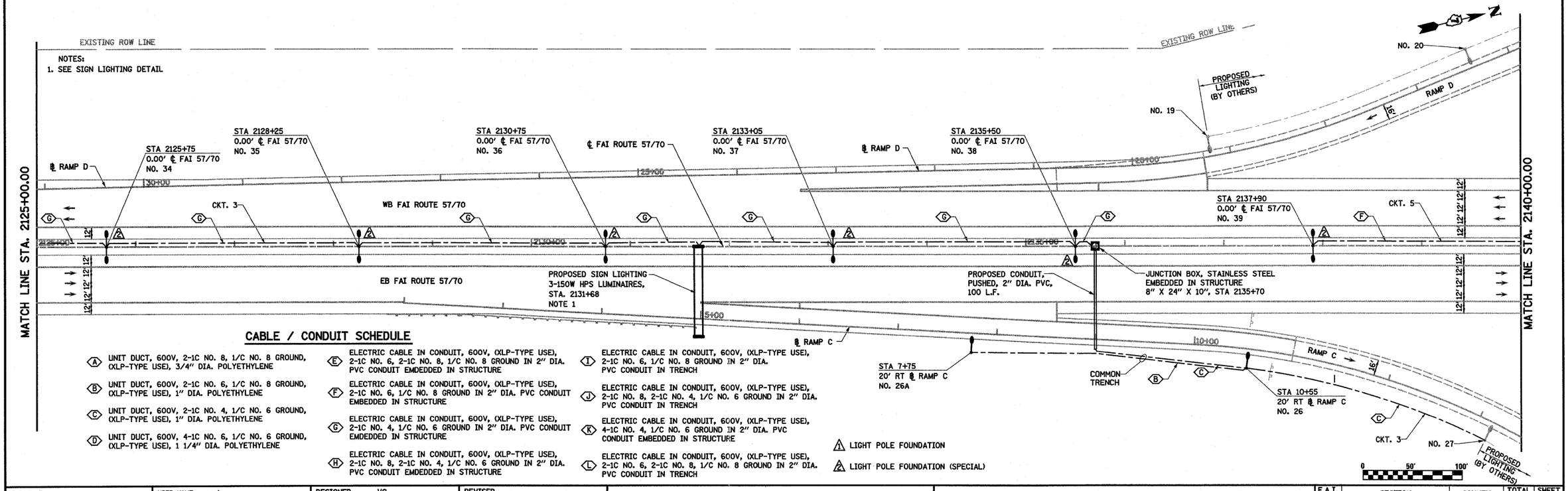
SCALE: 1"=50'	SHEET NO. 14 OF 34 SHEETS	STA. 2215+00.00 TO STA. 2245+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	312
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-III
- PROPOSED LIGHTING UNIT (BY OTHERS)
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT
- PROPOSED CONDUIT EMBEDDED IN STRUCTURE
- PROPOSED CONDUIT, PUSHED, PVC, SIZE AS NOTED
- PROPOSED UNDERPASS LUMINAIRE, 150W HPS, PIER MOUNTED
- PROPOSED LIGHTING UNIT, 45FT. WEATHERING STEEL POLE, TENON MOUNT, 250W HPS MULTI-MOUNT LUMINAIRE
- EXISTING LIGHTING UNIT TO REMAIN IN PLACE
- PROPOSED LIGHTING (BY OTHERS)



CABLE / CONDUIT SCHEDULE

- (A) UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B) UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C) UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D) UNIT DUCT, 600V, 4-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- (E) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMDEDDED IN STRUCTURE
- (F) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (G) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMDEDDED IN STRUCTURE
- (H) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMDEDDED IN STRUCTURE
- (I) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (J) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (K) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 4-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (L) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH

⚠1 LIGHT POLE FOUNDATION

⚠2 LIGHT POLE FOUNDATION (SPECIAL)

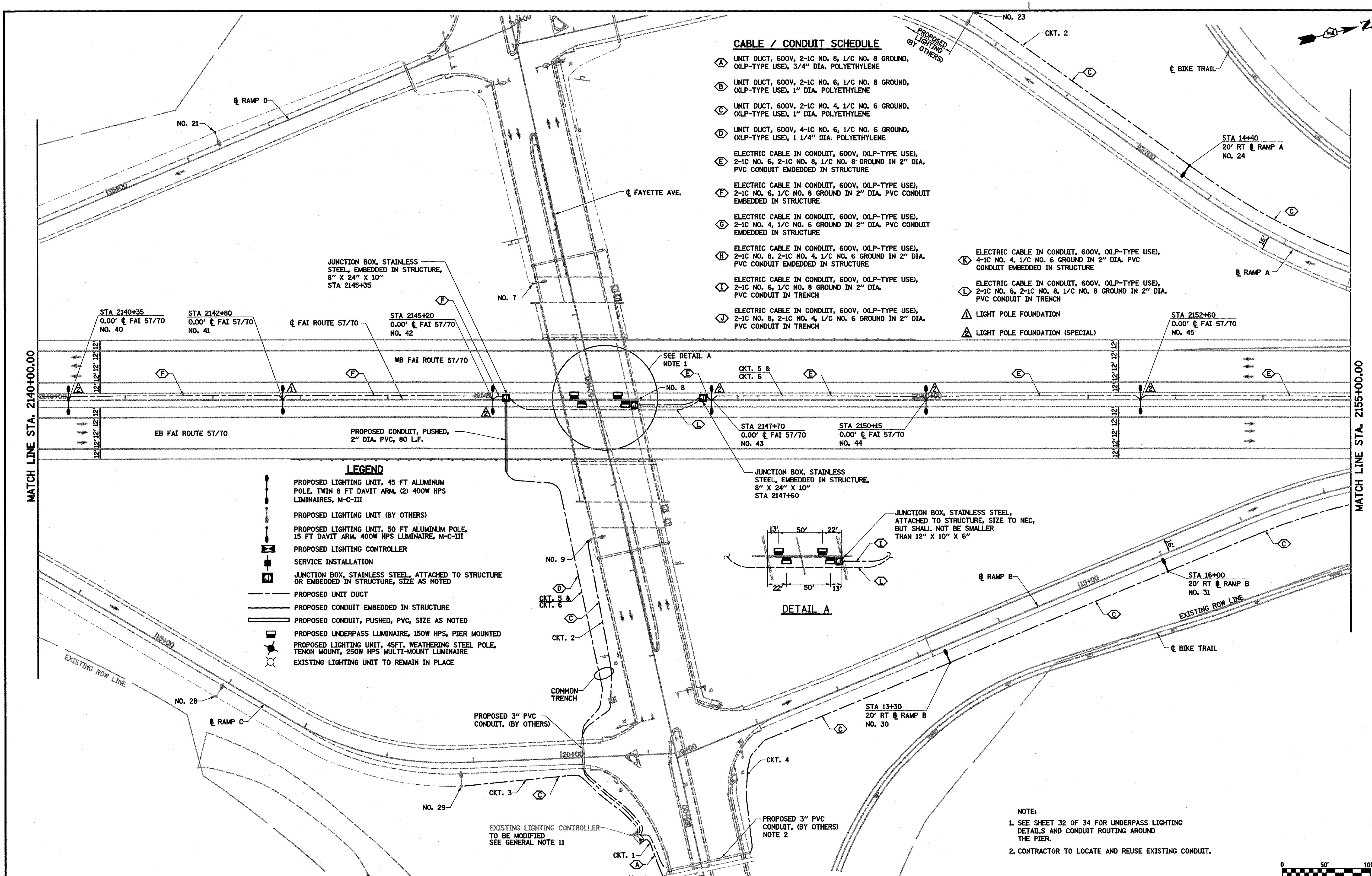
FILE NAME = S:\Projects\683-00072.57-70\dgn\ML_Keller\lighting_prop_mlk.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 5-02-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING
FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 15 OF 34 SHEETS | STA. 2121+44.00 TO STA. 2125+00.00'

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3.4)R	EFFINGHAM	1098	313
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CABLE / CONDUIT SCHEDULE

- (A) UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B) UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C) UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D) UNIT DUCT, 600V, 4-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- (E) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (F) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (G) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (H) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (I) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (J) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (K) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 4-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (L) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- △ LIGHT POLE FOUNDATION
- △ LIGHT POLE FOUNDATION (SPECIAL)

LEGEND

- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-III
- PROPOSED LIGHTING UNIT (BY OTHERS)
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT
- PROPOSED CONDUIT EMBEDDED IN STRUCTURE
- PROPOSED CONDUIT, PUSHED, PVC, SIZE AS NOTED
- PROPOSED UNDERPASS LUMINAIRE, 150W HPS, PIER MOUNTED
- PROPOSED LIGHTING UNIT, 45FT. WEATHERING STEEL POLE, TENON MOUNT, 250W HPS MULTI-MOUNT LUMINAIRE
- EXISTING LIGHTING UNIT TO REMAIN IN PLACE

NOTE:

1. SEE SHEET 32 OF 34 FOR UNDERPASS LIGHTING DETAILS AND CONDUIT ROUTING AROUND THE PIER.
2. CONTRACTOR TO LOCATE AND REUSE EXISTING CONDUIT.

0 50' 100'

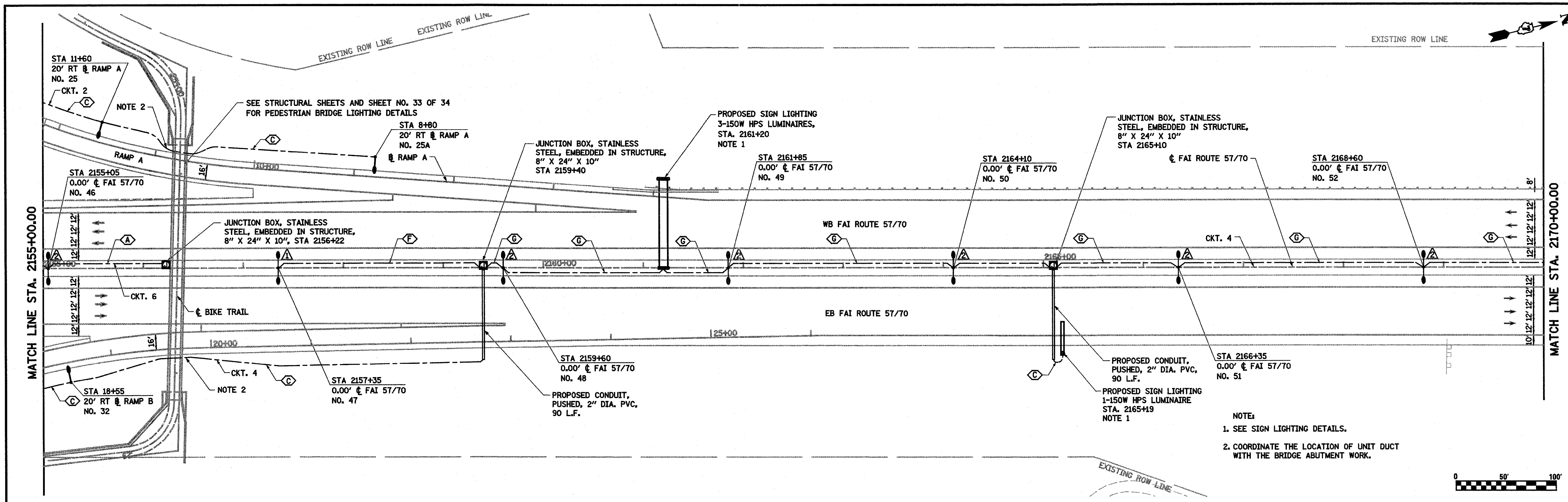
FILE NAME = S:\Projects\483-88872_57-70\dgn\M_Keller\lighting_prop.sdk.dgn	USER NAME = betsy	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 5-02-08	REVISED -

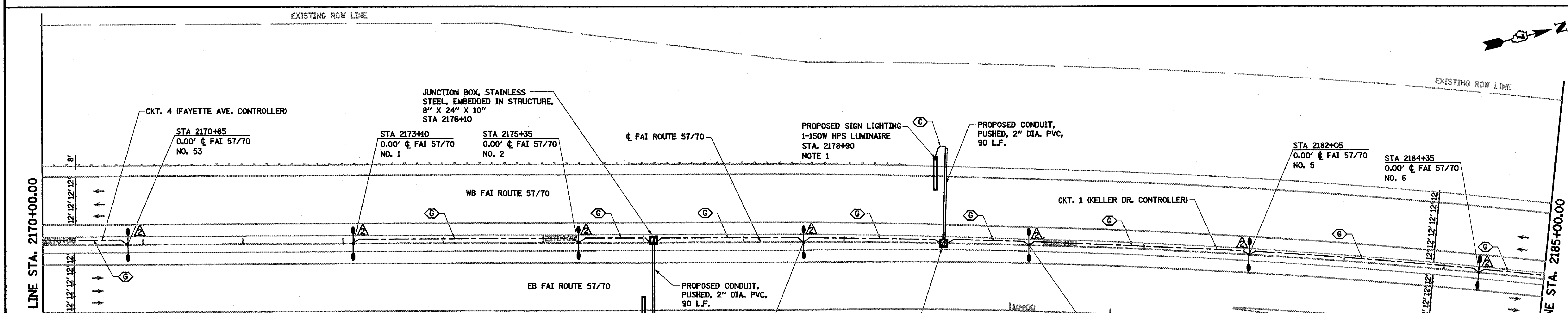
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING
FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 16 OF 34 SHEETS | STA. 2125+00.00' TO STA. 2155+00.00'

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	314
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





LEGEND

- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-III
- PROPOSED LIGHTING UNIT (BY OTHERS)
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT
- PROPOSED CONDUIT EMBEDDED IN STRUCTURE
- PROPOSED CONDUIT, PUSHED, PVC, SIZE AS NOTED
- PROPOSED UNDERPASS LUMINAIRE, 150W HPS, PIER MOUNTED
- PROPOSED LIGHTING UNIT, 45FT. WEATHERING STEEL POLE, TENON MOUNT, 250W HPS MULTI-MOUNT LUMINAIRE
- EXISTING LIGHTING UNIT TO REMAIN IN PLACE

CABLE / CONDUIT SCHEDULE

- (A) UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B) UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C) UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D) UNIT DUCT, 600V, 4-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- (E) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (F) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (G) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (H) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (I) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (J) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (K) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 4-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (L) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH

(1) LIGHT POLE FOUNDATION

(2) LIGHT POLE FOUNDATION (SPECIAL)

FILE NAME = S:\Projects\HKI-88072.57-70\dgn\Hl_Keller\lighting.prop.mlk.dgn	USER NAME = betsy	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 5-02-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING
FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 17 OF 34 SHEETS | STA. 2155+00.00' TO STA. 2185+00.00'

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	315
		CONTRACT NO. 74299		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT

LEGEND

- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LIMINAIRES, M-C-III
- PROPOSED LIGHTING UNIT (BY OTHERS)
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT
- PROPOSED CONDUIT EMBEDDED IN STRUCTURE
- PROPOSED CONDUIT, PUSHED, PVC, SIZE AS NOTED
- PROPOSED UNDERPASS LUMINAIRE, 150W HPS, PIER MOUNTED
- PROPOSED LIGHTING UNIT, 45FT. WEATHERING STEEL POLE, TENON MOUNT, 250W HPS MULTI-MOUNT LUMINAIRE
- EXISTING LIGHTING UNIT TO REMAIN IN PLACE

MATCH LINE STA. 2185+00.00

EXISTING ROW LINE

STA 2186+60
0.00' ℄ FAI 57/70
NO. 7

STA 25+50
30' RT ℄ RAMP D
NO. 34

STA 22+90
30' RT ℄ RAMP D
NO. 35

STA 20+55
37' RT ℄ RAMP D
NO. 36

STA 18+50
45' RT ℄ RAMP D
NO. 37

STA 16+40
53' RT ℄ RAMP D
NO. 38

℄ RAMP D

RAMP D

PROPOSED CONDUIT, PUSHED, 2" DIA. PVC, 45 L.F.

E6A
E6B

STA 2189+20
0.00' ℄ FAI 57/70
NO. 8

STA 2191+80
0.00' ℄ FAI 57/70
NO. 9

STA 2194+40
0.00' ℄ FAI 57/70
NO. 10

STA 2197+00
0.00' ℄ FAI 57/70
NO. 11

STA 2199+60
0.00' ℄ FAI 57/70
NO. 12

CKT. 1
WB FAI ROUTE 57/70
EB FAI ROUTE 57/70
CKT. 2
℄ FAI ROUTE 57/70

STA 16+50
30' RT, ℄ RAMP C
NO. 26

STA 18+50
30' RT, ℄ RAMP C
NO. 27

STA 20+50
30' RT, ℄ RAMP C
NO. 28

STA 22+60
30' RT, ℄ RAMP C
NO. 29

℄ RAMP C

RAMP C

RAMP E

E 17

SEE DETAIL B
NEXT SHEET

KELLER DRIVE

MATCH LINE STA. 2200+00.00

0 50' 100'

CABLE / CONDUIT SCHEDULE

- (A) UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B) UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C) UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D) UNIT DUCT, 600V, 4-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- (E) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMDEDDED IN STRUCTURE
- (F) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (G) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMDEDDED IN STRUCTURE
- (H) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMDEDDED IN STRUCTURE
- (I) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (J) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (K) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 4-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (L) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (1) LIGHT POLE FOUNDATION
- (2) LIGHT POLE FOUNDATION (SPECIAL)

S:\Projects\483-00072.57-70\dgn\ML_Keller\lighting_prop_ml.dgn

PLOT SCALE = 100.0000 ' / IN.
PLOT DATE = 3/18/2011

DESIGNED - VG | REVISED -
DRAWN - PDB | REVISED -
CHECKED - BRM | REVISED -
DATE - 5-02-08 | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING
FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 18 OF 34 SHEETS | STA. 2185+00.00' TO STA. 2200.00'.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	316
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

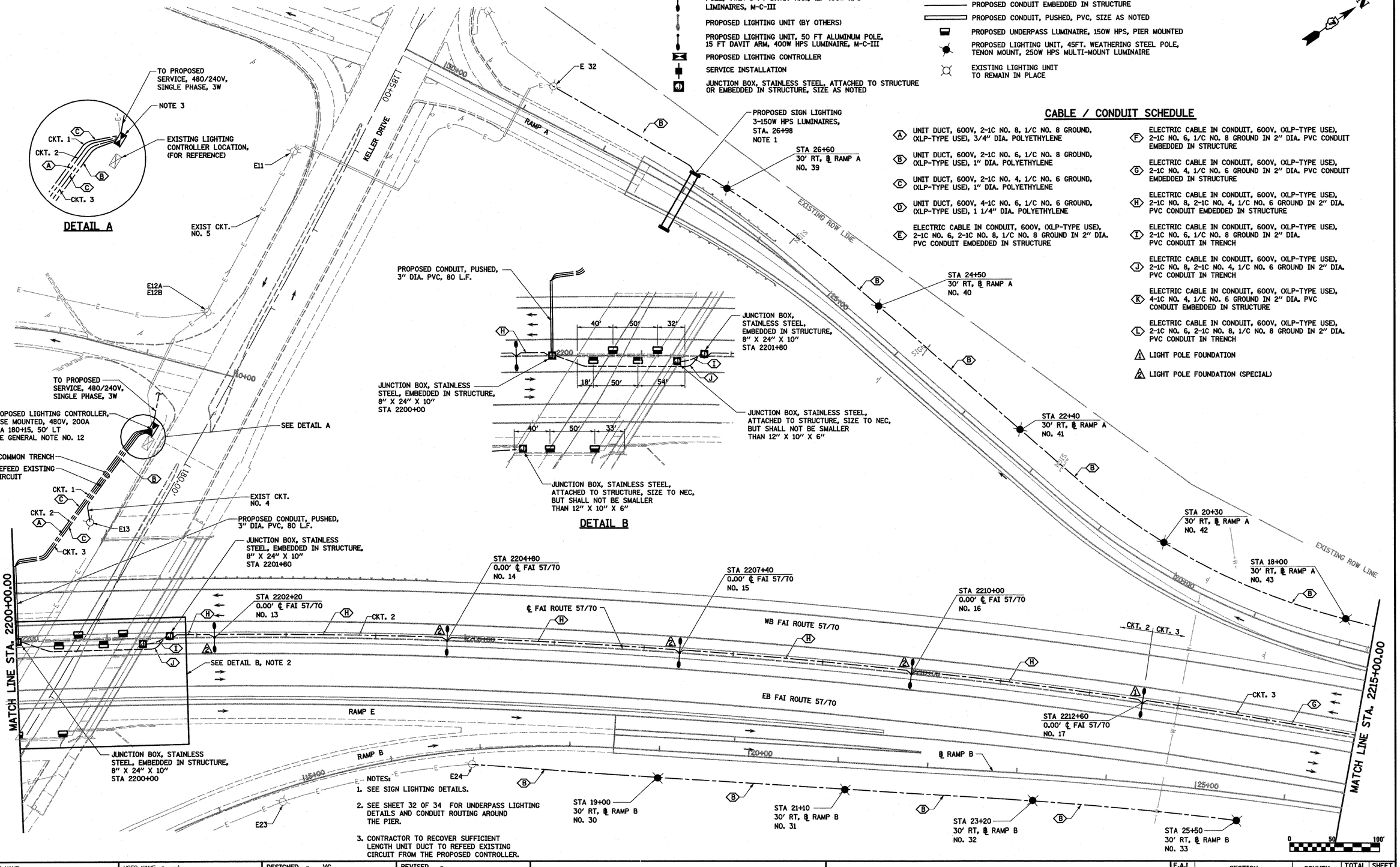
- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LIMINAIRES, M-C-III
- PROPOSED LIGHTING UNIT (BY OTHERS)
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT
- PROPOSED CONDUIT EMBEDDED IN STRUCTURE
- PROPOSED CONDUIT, PUSHED, PVC, SIZE AS NOTED
- PROPOSED UNDERPASS LUMINAIRE, 150W HPS, PIER MOUNTED
- PROPOSED LIGHTING UNIT, 45FT. WEATHERING STEEL POLE, TENON MOUNT, 250W HPS MULTI-MOUNT LUMINAIRE
- EXISTING LIGHTING UNIT TO REMAIN IN PLACE

CABLE / CONDUIT SCHEDULE

- (A) UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B) UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C) UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D) UNIT DUCT, 600V, 4-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- (E) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMDEDDED IN STRUCTURE
- (F) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (G) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMDEDDED IN STRUCTURE
- (H) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (I) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (J) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (K) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 4-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (L) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (1) LIGHT POLE FOUNDATION
- (2) LIGHT POLE FOUNDATION (SPECIAL)

DETAIL A

DETAIL B



NOTES:

1. SEE SIGN LIGHTING DETAILS.
2. SEE SHEET 32 OF 34 FOR UNDERPASS LIGHTING DETAILS AND CONDUIT ROUTING AROUND THE PIER.
3. CONTRACTOR TO RECOVER SUFFICIENT LENGTH UNIT DUCT TO REFEED EXISTING CIRCUIT FROM THE PROPOSED CONTROLLER.

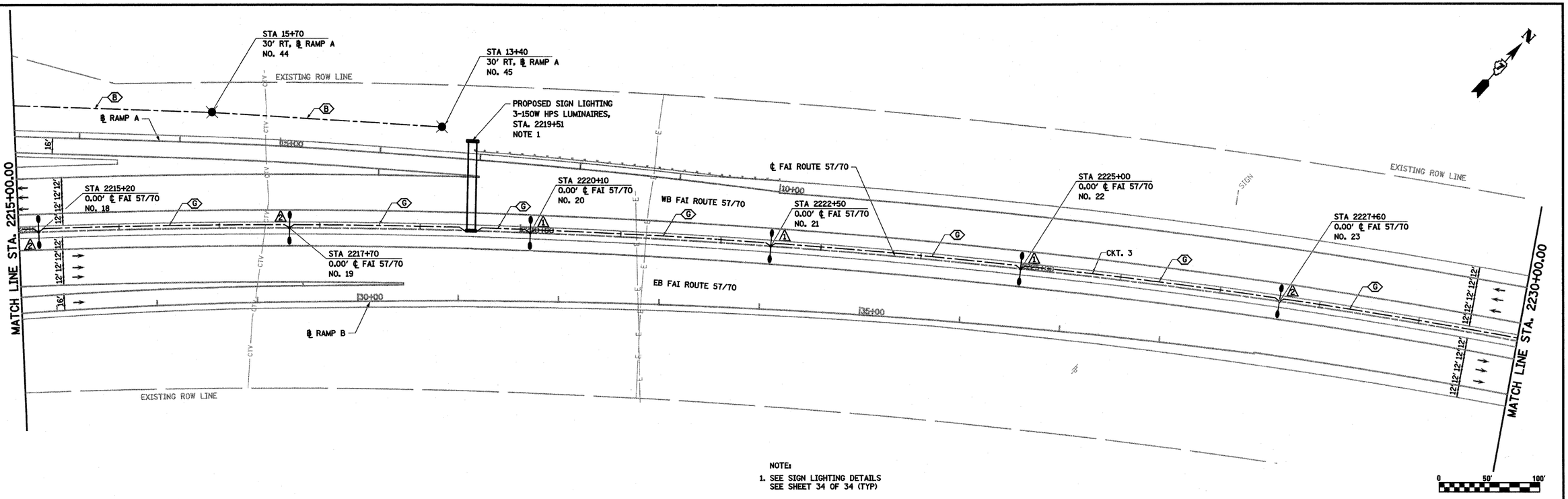
FILE NAME = S:\Projects\483-00072.57-70\dgn\ML_Keller\lighting_prop_ml.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 5-02-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

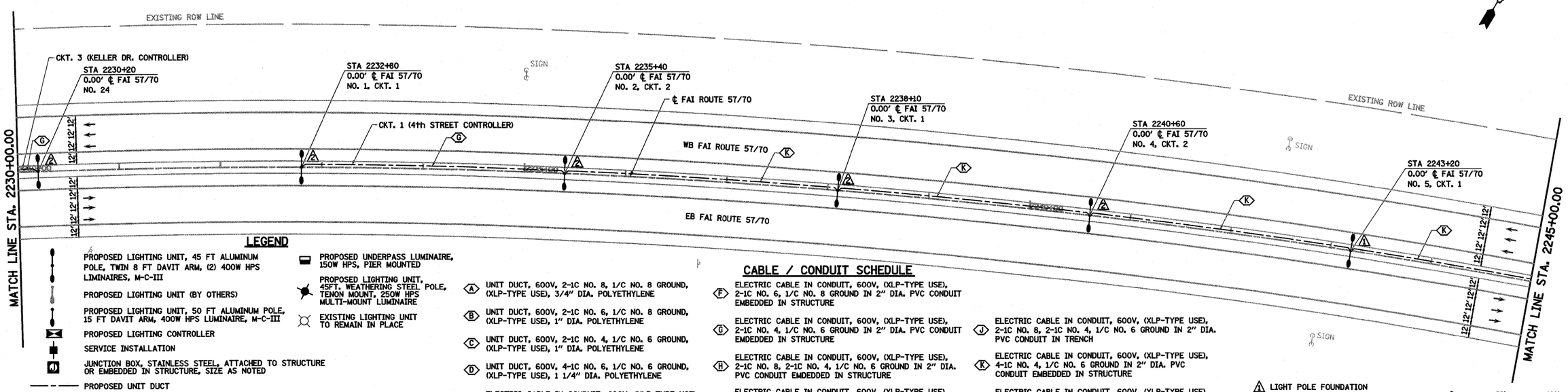
PROPOSED LIGHTING
FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 19 OF 34 SHEETS | STA. 2200.00'.00 TO STA. 2215+00.00'

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	317
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTE:
1. SEE SIGN LIGHTING DETAILS SEE SHEET 34 OF 34 (TYP)



LEGEND

- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LIMINAIRES, M-C-III
- PROPOSED LIGHTING UNIT (BY OTHERS)
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT
- PROPOSED CONDUIT EMBEDDED IN STRUCTURE
- PROPOSED CONDUIT, PUSHED, PVC, SIZE AS NOTED
- PROPOSED UNDERPASS LUMINAIRE, 150W HPS, PIER MOUNTED
- PROPOSED LIGHTING UNIT, 45FT. WEATHERING STEEL POLE, TENON MOUNT, 250W HPS MULTI-MOUNT LUMINAIRE
- EXISTING LIGHTING UNIT TO REMAIN IN PLACE

CABLE / CONDUIT SCHEDULE

- (A) UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B) UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C) UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D) UNIT DUCT, 600V, 4-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- (E) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMDEDDED IN STRUCTURE
- (F) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (G) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMDEDDED IN STRUCTURE
- (H) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMDEDDED IN STRUCTURE
- (I) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (J) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (K) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 4-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (L) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH

- (1) LIGHT POLE FOUNDATION
- (2) LIGHT POLE FOUNDATION (SPECIAL)

FILE NAME = S:\Projects\685-00072.53-70\dgn\ML_Keller\lighting_prop_mlk.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 5-02-08	REVISED -

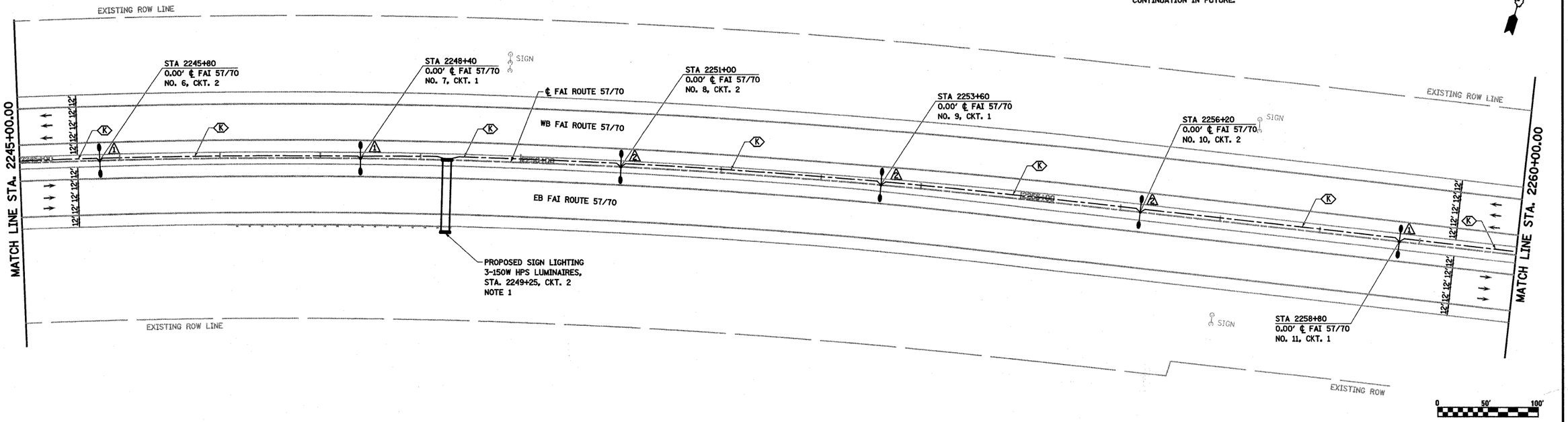
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

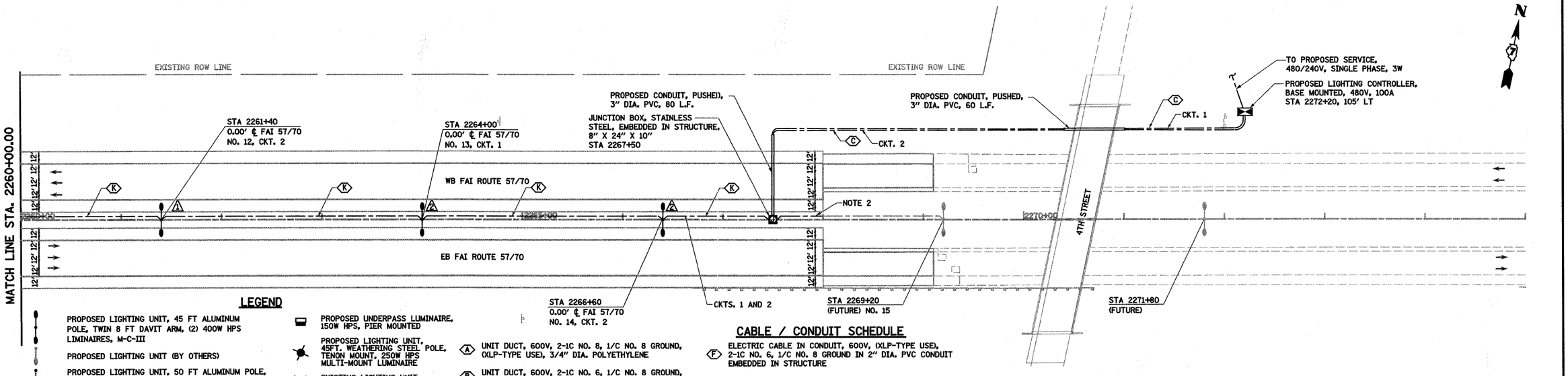
PROPOSED LIGHTING
FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 20 OF 34 SHEETS | STA. 2215+00.00' TO STA. 2245+00.00'

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	318
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES:
1. SEE SIGN LIGHTING DETAILS.
2. RUN CONDUIT TO END OF BARRIER WALL AND INSTALL DEFLECTION SLEEVE FOR CONTINUATION IN FUTURE.





LEGEND

- PROPOSED LIGHTING UNIT, 45 FT ALUMINUM POLE, TWIN 8 FT DAVIT ARM, (2) 400W HPS LUMINAIRES, M-C-III
- PROPOSED LIGHTING UNIT (BY OTHERS)
- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400W HPS LUMINAIRE, M-C-III
- PROPOSED LIGHTING CONTROLLER
- SERVICE INSTALLATION
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OR EMBEDDED IN STRUCTURE, SIZE AS NOTED
- PROPOSED UNIT DUCT
- PROPOSED CONDUIT EMBEDDED IN STRUCTURE
- PROPOSED CONDUIT, PUSHED, PVC, SIZE AS NOTED
- PROPOSED UNDERPASS LUMINAIRE, 150W HPS, PIER MOUNTED
- PROPOSED LIGHTING UNIT, 45FT. WEATHERING STEEL POLE, TENON MOUNT, 250W HPS MULTI-MOUNT LUMINAIRE
- EXISTING LIGHTING UNIT TO REMAIN IN PLACE

CABLE / CONDUIT SCHEDULE

- (A) UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- (B) UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (C) UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- (D) UNIT DUCT, 600V, 4-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
- (E) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMDEDDED IN STRUCTURE
- (F) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (G) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMDEDDED IN STRUCTURE
- (H) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMDEDDED IN STRUCTURE
- (I) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (J) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 8, 2-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH
- (K) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 4-1C NO. 4, 1/C NO. 6 GROUND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE
- (L) ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 2-1C NO. 6, 2-1C NO. 8, 1/C NO. 8 GROUND IN 2" DIA. PVC CONDUIT IN TRENCH

(1) LIGHT POLE FOUNDATION
(2) LIGHT POLE FOUNDATION (SPECIAL)

0 50' 100'

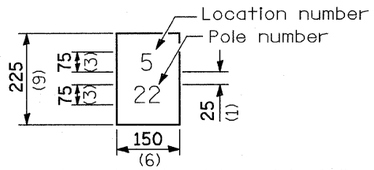
FILE NAME = S:\Projects\483-R007.57-70\dgn\VL_Keller\lighting_prop_sht.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/10/2011	DATE - 5-02-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING
FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 21 OF 34 SHEETS | STA. 2245+00.00' TO STA. 2268+00.00'

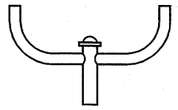
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFEINGHAM	1098	319
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



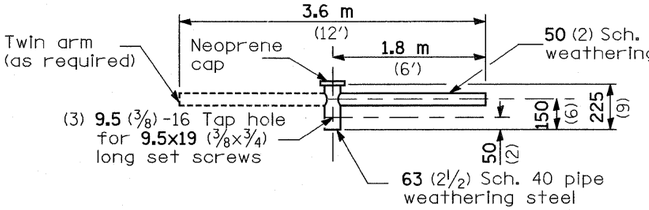
The contractor shall furnish and install a light pole identification of each new light pole, as shown above, incidental to the respective light pole pay item. The numerals shall be 3" series "D", black, screened on silver-white type B pressure sensitive reflective sheeting conforming to the requirements of section T602.01 of the Standard Specifications for Traffic Control Items. The numerals shall conform to the FHWA "Standard Alphabets for Highway Signs".

The light pole identification shall be applied to sign base material as specified in section 1069.06 of the Standard Specifications, approximatey 7" above the adjacent pavement grade visible to approaching traffic in accordance with Highway Standard 720001.

Consult District 7 for pole numbering scheme.

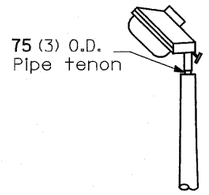


☐ TWIN TENON

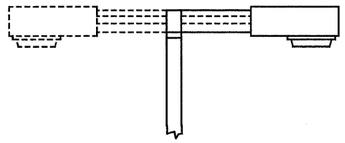


☐ TENON MOUNT BRACKET ARM

NOTE: Single or twin arm assembly shall be tilted 3° above horizontal.

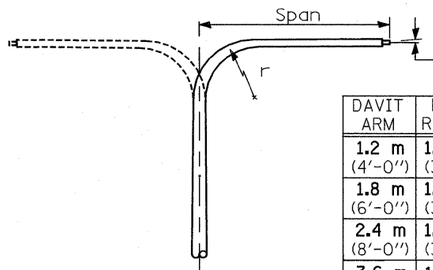


☒ TENON



☐ SHORT BRACKET

☐ SHORT BRACKET - TWIN



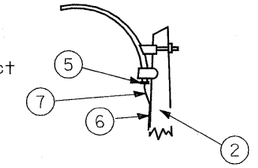
DAVIT ARM	BEND RADIUS
1.2 m (4'-0")	1.14 m (3'-9")
1.8 m (6'-0")	1.14 m (3'-9")
2.4 m (8'-0")	1.14 m (3'-9")
3.6 m (12'-0")	1.14 m (3'-9")

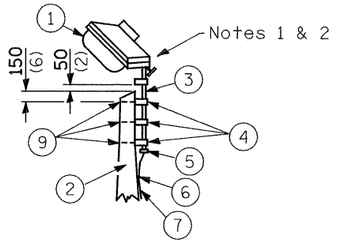
☒ DAVIT ARM

☒ DAVIT ARM-TWIN

NOTES:

1. Luminaire(s) shall have a 2-pole inline weatherproof quick disconnect fuse holder.
2. Luminaire(s) shall be oriented and the mounting angle adjusted as recommended by the Engineer.

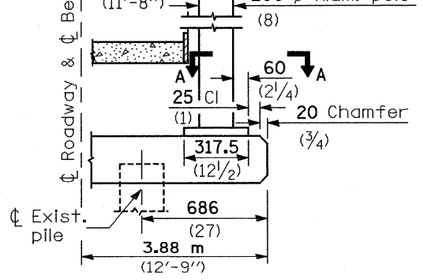




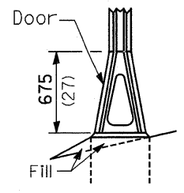
☐ MAST ARM

☒ TENON

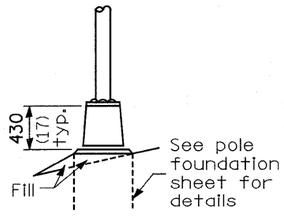
(1) Luminaire
(2) Wood pole, class 3 or better
(3) 63 (2 1/2) Galv. steel conduit
(4) Single offset pole band
(5) Conduit bushing
(6) Cable cLights on 600 (24) centers
(7) 2/c #10 Type use cable
(8) 25 (1) Galv. steel conduit 3.0 m (10') in length
(9) 16 (5/8) Ø hot dipped galvanized bolt with flat washer & locknut (3 req'd)
(10) Conduit cLights on 900 (36) centers
(11) Unit duct, size per plans
(12) Threaded reducer
(13) "C" Conduiet, threaded
(14) 40 (1 1/2) Galv. steel conduit for 1 unit duct or 75 (3) galv. steel conduit for 2 or 3 unit ducts.



BENT # (Looking)

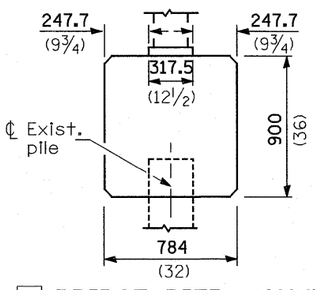


☐ STAINLESS STEEL FLAIR BASE

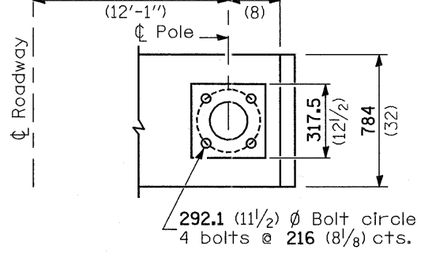


☐ TRANSFORMER BASE

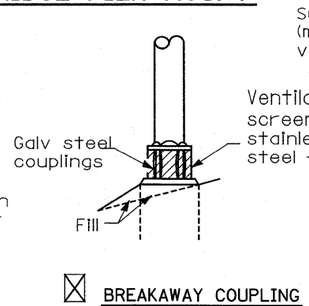
☐ FRANGIBLE



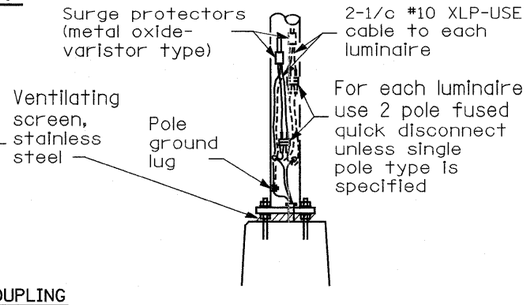
☐ BRIDGE PIER MOUNT



SECTION A-A



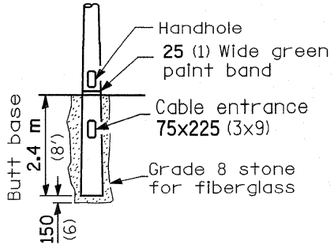
☒ BREAKAWAY COUPLING



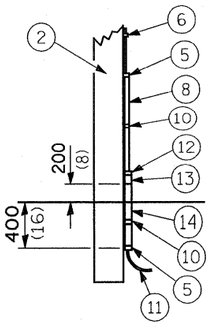
☒ ANCHOR

☒ METAL OR ☐ CONCRETE

Details for underground distribution if required



☐ BUTT BASE



☒ POLE, WOOD

POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')

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

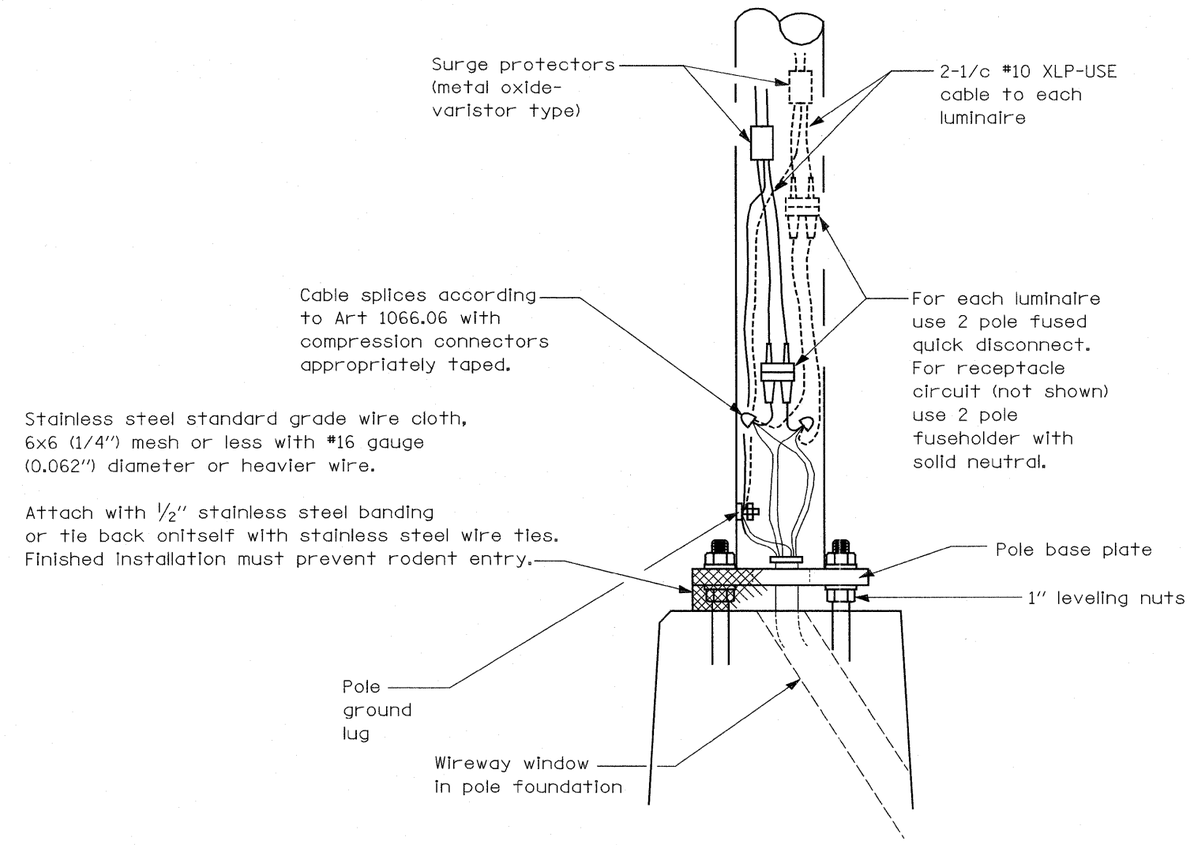
FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\lighting det#6.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POLE STANDARDS, FAI ROUTE 57/70

SCALE: | SHEET NO. 22 OF 34 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	320
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



WIRING DETAIL

NO SCALE

GENERAL NOTES

All taped splices shall use 2 layers of electrical tape over 3 layers of rubber tape as required by the Standard Specifications. Coat the finished taped splice with bonding compound.

All cable splices shall be taped unless another method has been specifically approved by the Engineer.

For example purposes the pole is shown on an anchor base. If the pole is required to be set on a breakaway base, consult the Standard Specifications.

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\lighting detail.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
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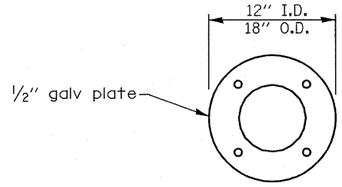
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

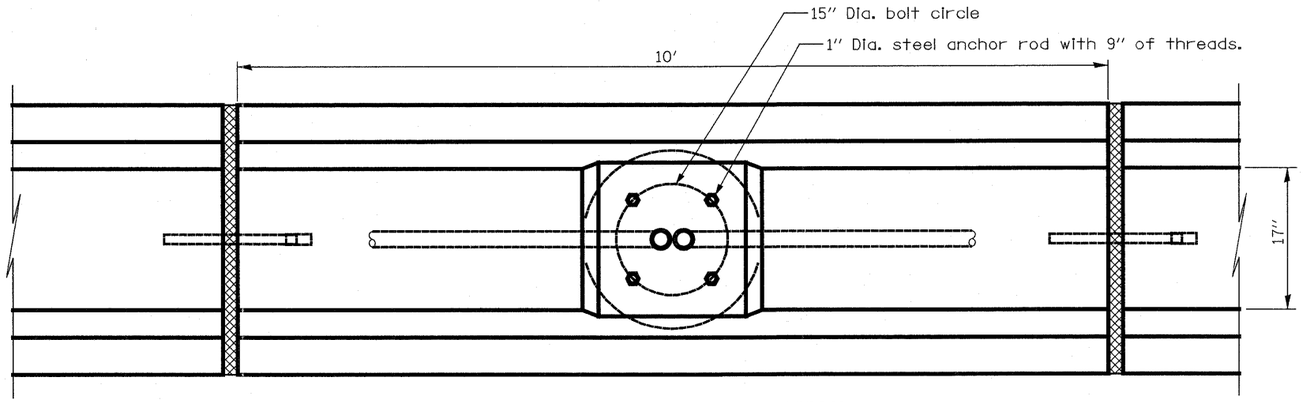
POLE HANDHOLE WIRING, FAI ROUTE 57/70

SCALE: | SHEET NO. 23 OF 34 SHEETS | STA. | TO STA.

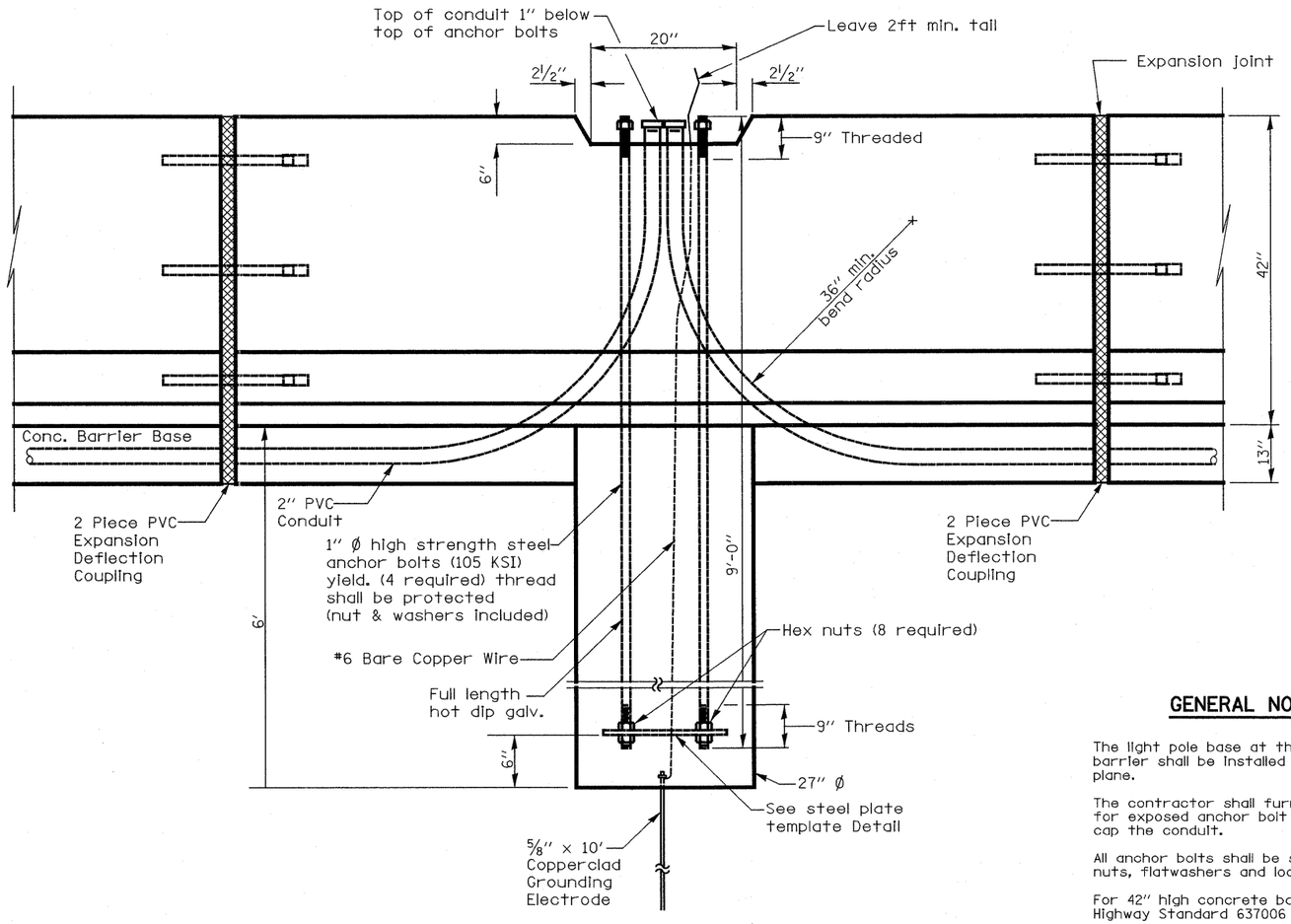
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	321
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



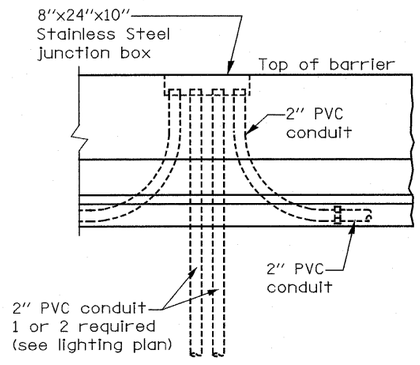
TEMPLATE DETAIL



PLAN AT LIGHTING FOUNDATION



ELEVATION AT LIGHTING FOUNDATION



JUNCTION BOX ELEVATION

GENERAL NOTES

The light pole base at the top of the barrier shall be installed level in a horizontal plane.

The contractor shall furnish protection for exposed anchor bolt threads and cap the conduit.

All anchor bolts shall be supplied with nuts, flatwashers and lockwashers.

For 42" high concrete barrier details see Highway Standard 637006

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\lighting detail.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
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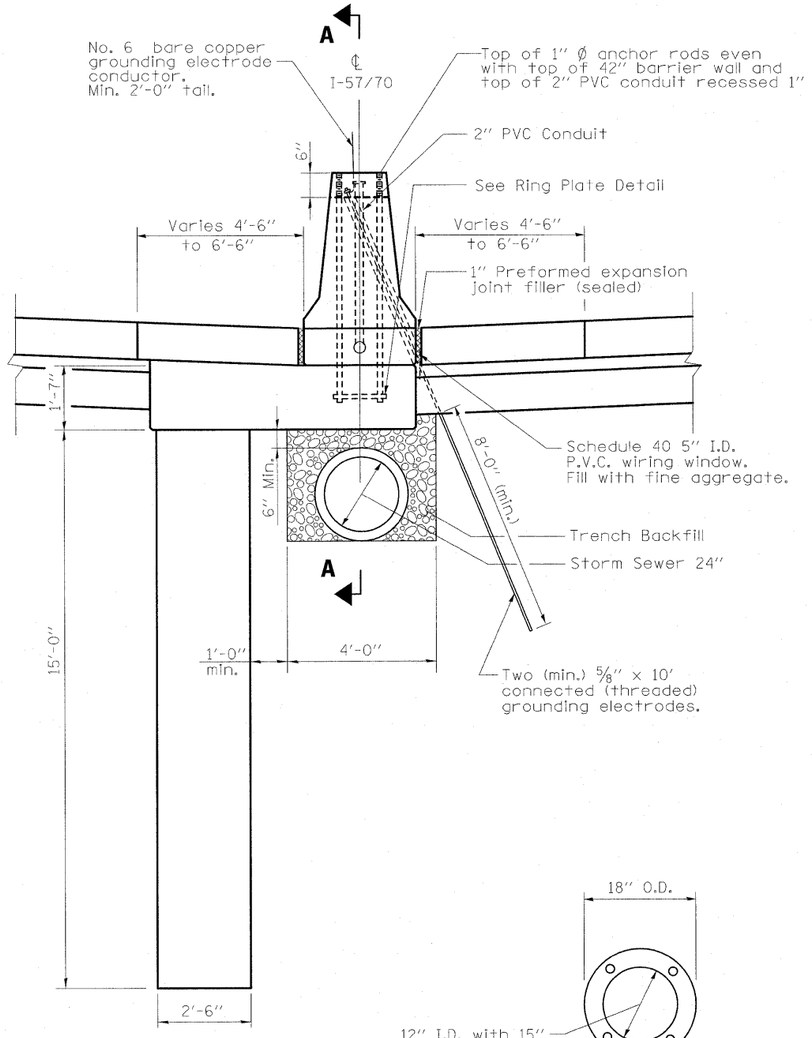
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

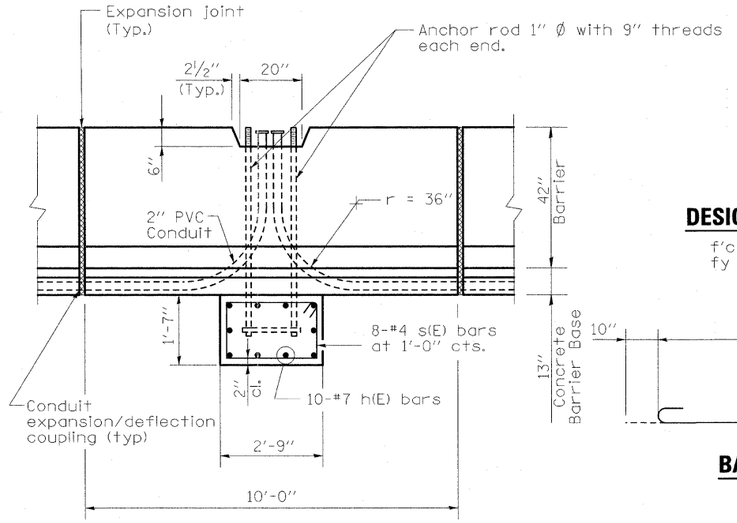
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POLE MOUNTING ON CONCRETE BARRIER

SCALE: | SHEET NO. 24 OF 34 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	322
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

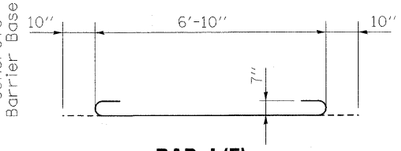




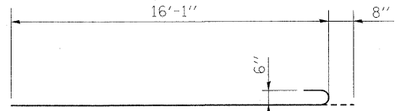
SECTION A–A

DESIGN STRESSES

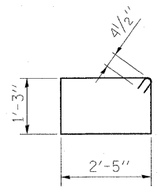
f'c = 3500 psi
fy = 60,000psi



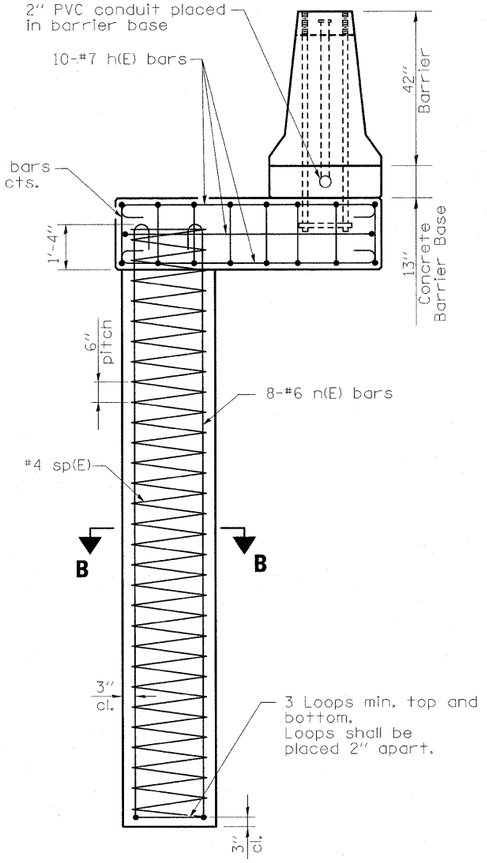
BAR h(E)



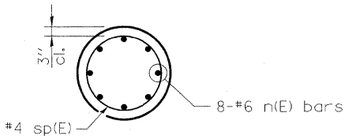
BAR n(E)



BAR s(E)

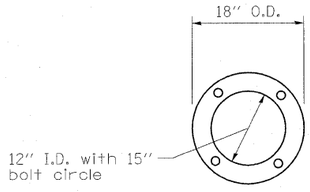


ELEVATION FOUNDATION
(with Reinforcement)

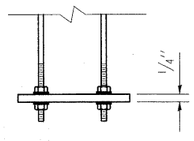


SECTION B–B

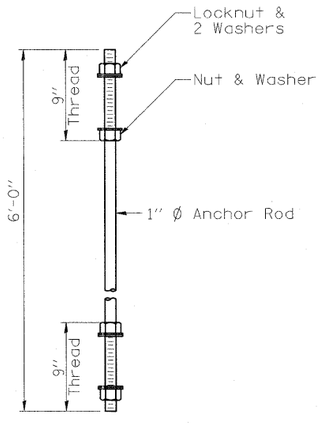
ELEVATION FOUNDATION



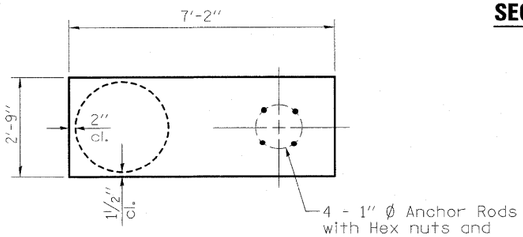
TOP VIEW



RING PLATE DETAIL



ANCHOR ROD DETAIL



PLAN – CAP BEAM

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
h(E)	10	#7	8'-6"	
n(E)	8	#6	16'-9"	
s(E)	8	#4	8'-1"	
sp(E)	1	#4	16'-1"	

EXP. 11-30-2012
Chadwick J Fuesting 3/16/11

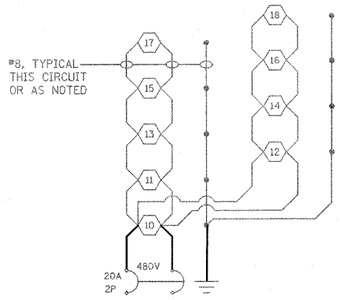
FILE NAME = S:\Projects\403-00072.57-70\dgn\ML_Keller\lighting detail.dgn	USER NAME = adam	DESIGNED - ACS	REVISED -
		DRAWN - WJS	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - BB	REVISED -
	PLOT DATE = 3/16/2011	DATE - 10-18-10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

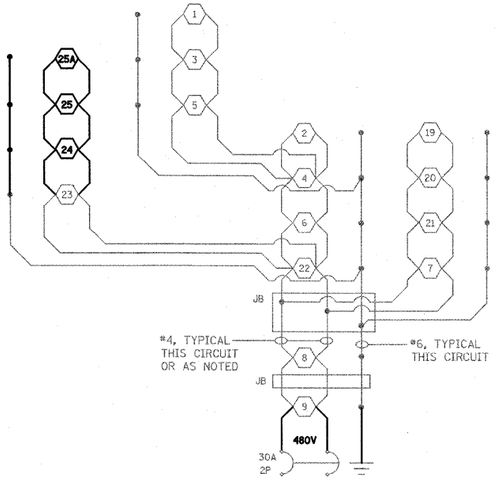
LIGHT POLE FOUNDATION SPECIAL

SCALE: | SHEET NO. 25 OF 34 SHEETS | STA. | TO STA.

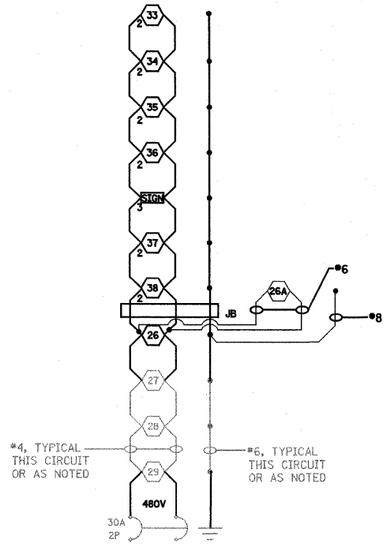
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	323
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



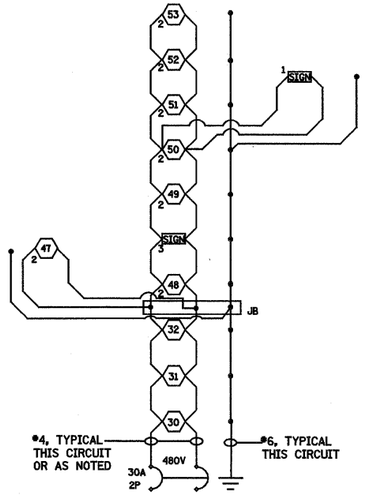
LIGHTING CKT 1 (EXISTING - NO CHANGE)
EXISTING LIGHTING CONTROLLER BASE MOUNTED



LIGHTING CKT 2 (EXISTING MODIFIED)
EXISTING LIGHTING CONTROLLER BASE MOUNTED



LIGHTING CKT 3 (EXISTING MODIFIED)
EXISTING LIGHTING CONTROLLER BASE MOUNTED

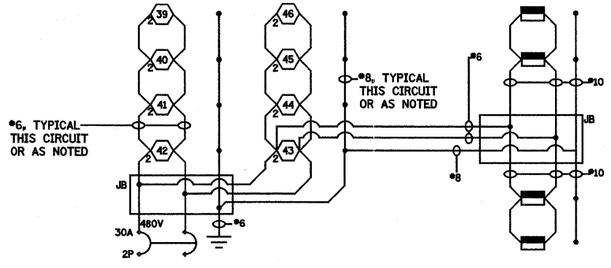


LIGHTING CKT 4 (PROPOSED)
EXISTING LIGHTING CONTROLLER BASE MOUNTED

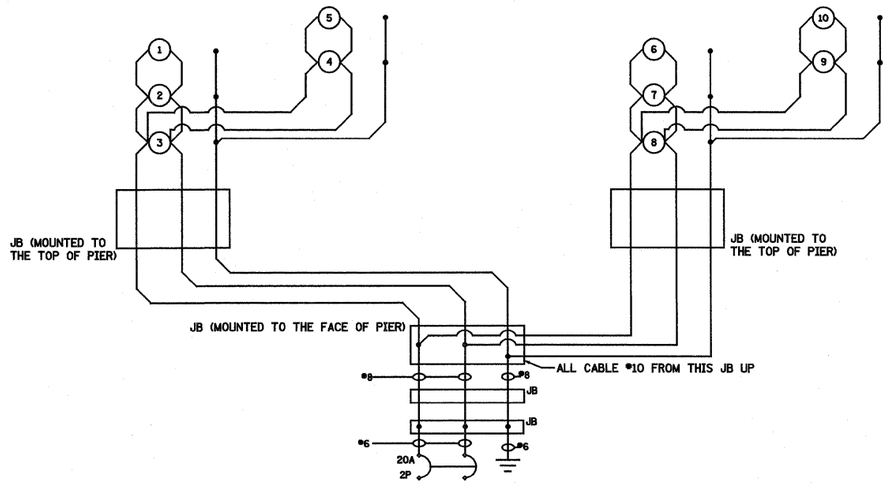
NOTES:

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

- 400W PROPOSED LUMINAIRE
- 2 (2) 400W PROPOSED LUMINAIRES
- SIGN SIGN LIGHTING, NUMBER OF 150W LUMINAIRES AS INDICATED
- JUNCTION BOX
- 150W UNDERPASS LUMINAIRE
- 50W PEDESTRIAN BRIDGE LUMINAIRE

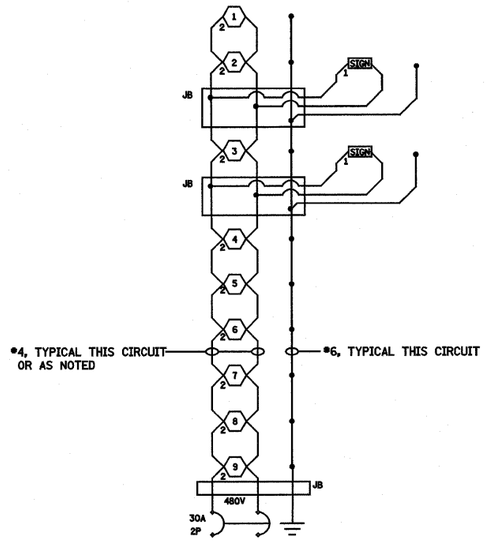


LIGHTING CKT 5 (PROPOSED)
EXISTING LIGHTING CONTROLLER BASE MOUNTED

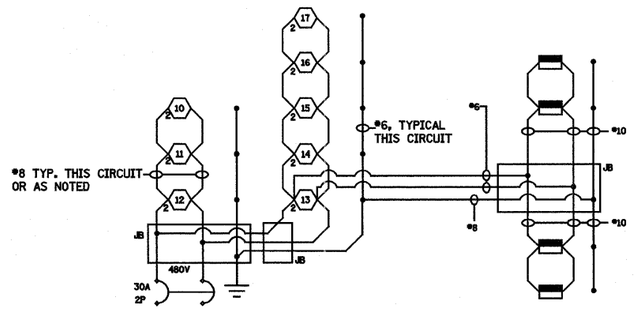


LIGHTING CKT 6 (PROPOSED BRIDGE LIGHTING)
EXISTING LIGHTING CONTROLLER BASE MOUNTED

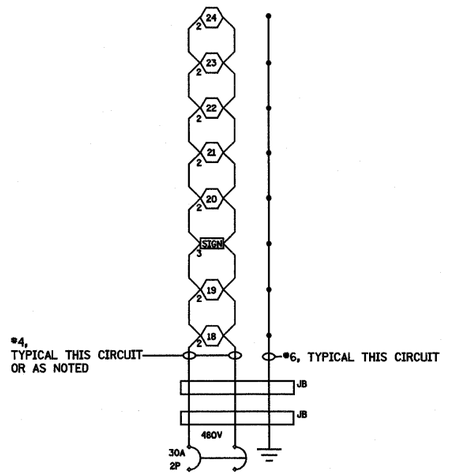
FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\lighting det16.dgn	USER NAME = paul	DESIGNED - VG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIRING DIAGRAM (FAYETTE AVENUE CONTROLLER) FAI ROUTE 57/70	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - PDB	REVISED -			57/70	(25-3,4)R	EFFINGHAM	1098	324
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -						CONTRACT NO. 74299	
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -		SCALE: SHEET NO. 26 OF 34 SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LIGHTING CKT 1 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED



LIGHTING CKT 2 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED

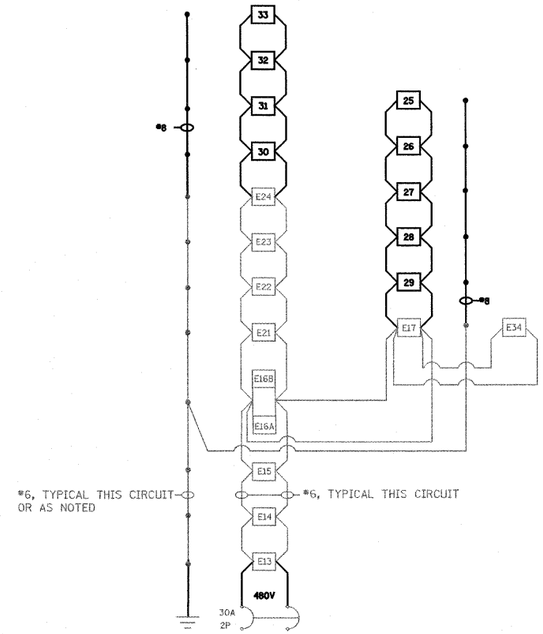


LIGHTING CKT 3 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED

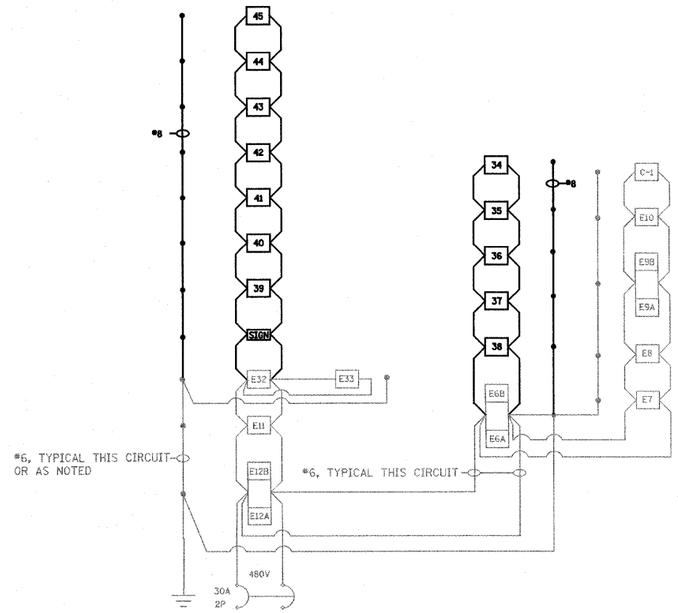
NOTES:

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

- 400W PROPOSED LUMINAIRE
- 2 (2) 400W PROPOSED LUMINAIRES
- SIGN SIGN LIGHTING, NUMBER OF 150W LUMINAIRES AS INDICATED
- JUNCTION BOX
- 150W UNDERPASS LUMINAIRE
- 250W EXISTING OR PROPOSED LUMINAIRE



LIGHTING CKT 4 (EXISTING MODIFIED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED



LIGHTING CKT 5 (EXISTING MODIFIED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED

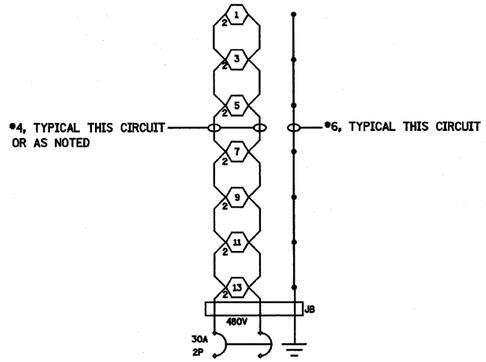
FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\lighting details.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

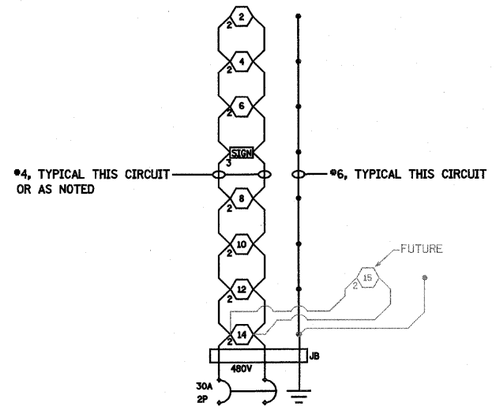
WIRING DIAGRAM (KELLER DRIVE CONTROLLER) FAI ROUTE 57/70

SCALE: | SHEET NO. 27 OF 34 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	325
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LIGHTING CKT 1 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED



LIGHTING CKT 2 (PROPOSED)
PROPOSED LIGHTING CONTROLLER BASE MOUNTED

NOTES:

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

400W PROPOSED LUMINAIRE

2 (2) 400W PROPOSED LUMINAIRES

SIGN SIGN LIGHTING, NUMBER OF 150W LUMINAIRES AS INDICATED

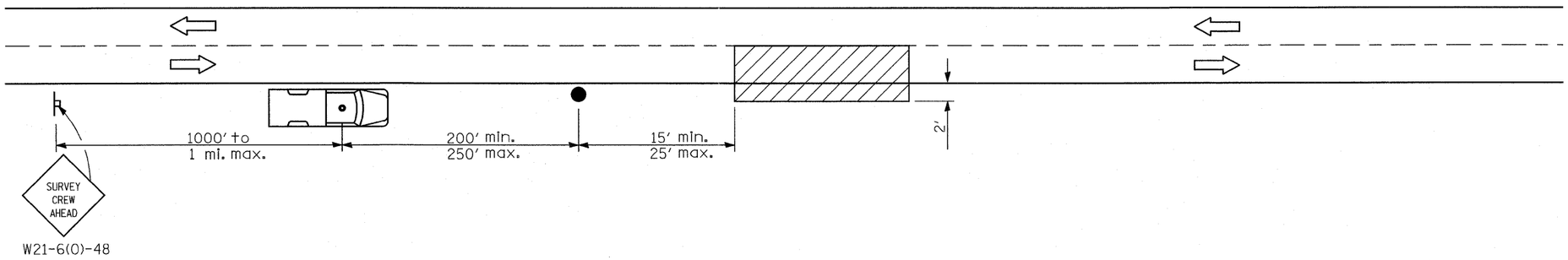
JUNCTION BOX

150W UNDERPASS LUMINAIRE

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\lighting detail.dgn	USER NAME = paul	DESIGNED - VG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIRING DIAGRAM (4TH STREET CONTROLLER) FAI ROUTE 57/70	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - PDB	REVISED -			57/70	(25-3,4)R	EFFINGHAM	1098	326
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -					CONTRACT NO. 74299		
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -		SCALE: SHEET NO. 28 OF 34 SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTE:

FINAL INSPECTION FOR LIGHTING MUST BE PERFORMED WHILE LANE CLOSURE FOR CONSTRUCTION IS IN PLACE. OTHERWISE, LANE CLOSURE SHALL BE ARRANGED FOR FINAL INSPECTION AT THE CONTRACTOR'S EXPENSE.



SYMBOLS

Work area

Sign on portable or permanent support

Truck with flashing amber light and dual emergency flashers

Flagger with traffic control sign

TYPICAL APPLICATIONS

Utility operations

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\lighting detail.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL FOR NIGHTTIME LIGHTING INSPECTION, FAI ROUTE 57/70

SCALE: | SHEET NO. 29 OF 34 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	327
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE - PROPOSED LIGHTING

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	36 FT
	Number Of Lanes	3
	Median Width	40 FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	48 FT
	Mast Arm Length	8 FT
	Pole Set-Back From Edge Of Pavement	20 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	50000
	IES Vertical Distribution	M
	IES Control Of Distribution	FC
	IES Lateral Distribution	3
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	270 FT
	Configuration	Median
	Luminaire Overhang Over Edge Of Pavement Lane	-12 FT

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E_{Ave})	0.90 fc
	Uniformity Ratio, (E_{Ave}/E_{Min})	3.0
LUMINANCE:	Average Luminance: (L_{Ave})	0.60 Cd/m^2
	Uniformity Ratios: (L_{Ave}/L_{Min})	3.5
	(L_{Max}/L_{Min})	6.0
	Maximum Veiling Luminance Ratio: (L_v/L_{Ave})	0.3

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE - TEMPORARY LIGHTING

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	24 FT
	Number Of Lanes	2
	Median Width	FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	45 FT
	Mast Arm Length	FT
	Pole Set-Back From Edge Of Pavement	30 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	28000
	IES Vertical Distribution	M
	IES Control Of Distribution	NC
	IES Lateral Distribution	3
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	240 FT
	Configuration	One Side
	Luminaire Overhang Over Edge Of Pavement Lane	-30 FT

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E_{Ave})	0.60 fc
	Uniformity Ratio, (E_{Ave}/E_{Min})	3.0
LUMINANCE:	Average Luminance: (L_{Ave})	0.40 Cd/m^2
	Uniformity Ratios: (L_{Ave}/L_{Min})	3.5
	(L_{Max}/L_{Min})	6.0
	Maximum Veiling Luminance Ratio: (L_v/L_{Ave})	0.4

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\lighting details.dgn	USER NAME = paul	DESIGNED - VG	REVISED -
		DRAWN - PDB	REVISED -
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	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS PERFORMANCE TABLES

SCALE: | SHEET NO. 30 OF 34 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	328
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE – UNDERPASS

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	36 FT
	Number Of Lanes	3
	Median Width	N/A
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	16 FT
	Mast Arm Length	
	Pole Set-Back From Edge Of Pavement	16 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	16,000
	IES Vertical Distribution	Very Short
	IES Control Of Distribution	Non-Cutoff
	IES Lateral Distribution	4
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	50 FT
	Configuration	Single Side
	Luminaire Overhang Over Edge Of Pavement Lane	-16 FT

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E_{Ave})	0.9 fc
	Uniformity Ratio, (E_{Ave}/E_{Min})	3.0
LUMINANCE:	Average Luminance: (L_{Ave})	0.6 Cd/m^2
	Uniformity Ratios: (L_{Ave}/L_{Min})	3.5
	(L_{Max}/L_{Min})	6.0
	Maximum Veiling Luminance Ratio: (L_v/L_{Ave})	0.3

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE – PROPOSED LIGHTING

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	16 FT
	Number Of Lanes	1
	Median Width	FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	45 FT
	Mast Arm Length	N/A FT
	Pole Set-Back From Edge Of Pavement	30 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	28000
	IES Vertical Distribution	M
	IES Control Of Distribution	NC
	IES Lateral Distribution	3
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	170 FT
	Configuration	Single Side
	Luminaire Overhang Over Edge Of Pavement Lane	-30 FT

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E_{Ave})	0.9 fc
	Uniformity Ratio, (E_{Ave}/E_{Min})	3.0
LUMINANCE:	Average Luminance: (L_{Ave})	0.6 Cd/m^2
	Uniformity Ratios: (L_{Ave}/L_{Min})	3.5
	(L_{Max}/L_{Min})	6.0
	Maximum Veiling Luminance Ratio: (L_v/L_{Ave})	0.3

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE – PROPOSED BRIDGE LIGHTING

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	14 FT
	Number Of Lanes	1
	Median Width	- FT
	IES Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA:	Mounting Height	12 FT
	Mast Arm Length	- FT
	Pole Set-Back From Edge Of Pavement	0.5 FT
LUMINAIRE DATA:	Lamp Type	HPS
	Lamp Lumens	4000
	IES Vertical Distribution	M
	IES Control Of Distribution	C
	IES Lateral Distribution	4
	Total Light Loss Factor	0.684
LAYOUT DATA:	Spacing	52 FT
	Configuration	Opposite
	Luminaire Overhang Over Edge Of Pavement Lane	-0.5 FT

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

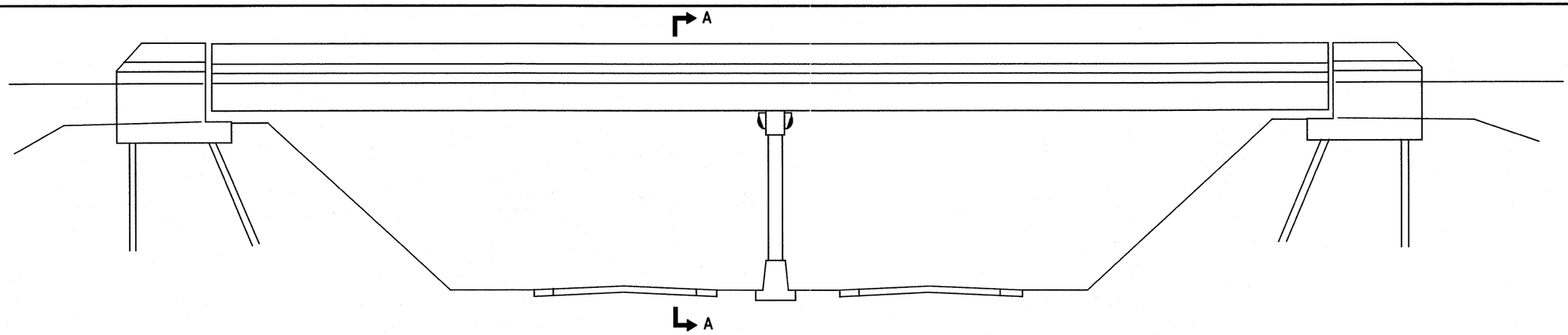
ILLUMINATION:	Average Horizontal Illumination, (E_{Ave})	0.5 fc
	Uniformity Ratio, (E_{Ave}/E_{Min})	10
LUMINANCE:	Average Luminance: (L_{Ave})	- Cd/m^2
	Uniformity Ratios: (L_{Ave}/L_{Min})	-
	(L_{Max}/L_{Min})	-
	Maximum Veiling Luminance Ratio: (L_v/L_{Ave})	-

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller-lighting details.dgn	USER NAME = paul	DESIGNED - VG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - PDB	REVISED -	
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -	
	PLOT DATE = 3/18/2011	DATE - 8-5-10	REVISED -	

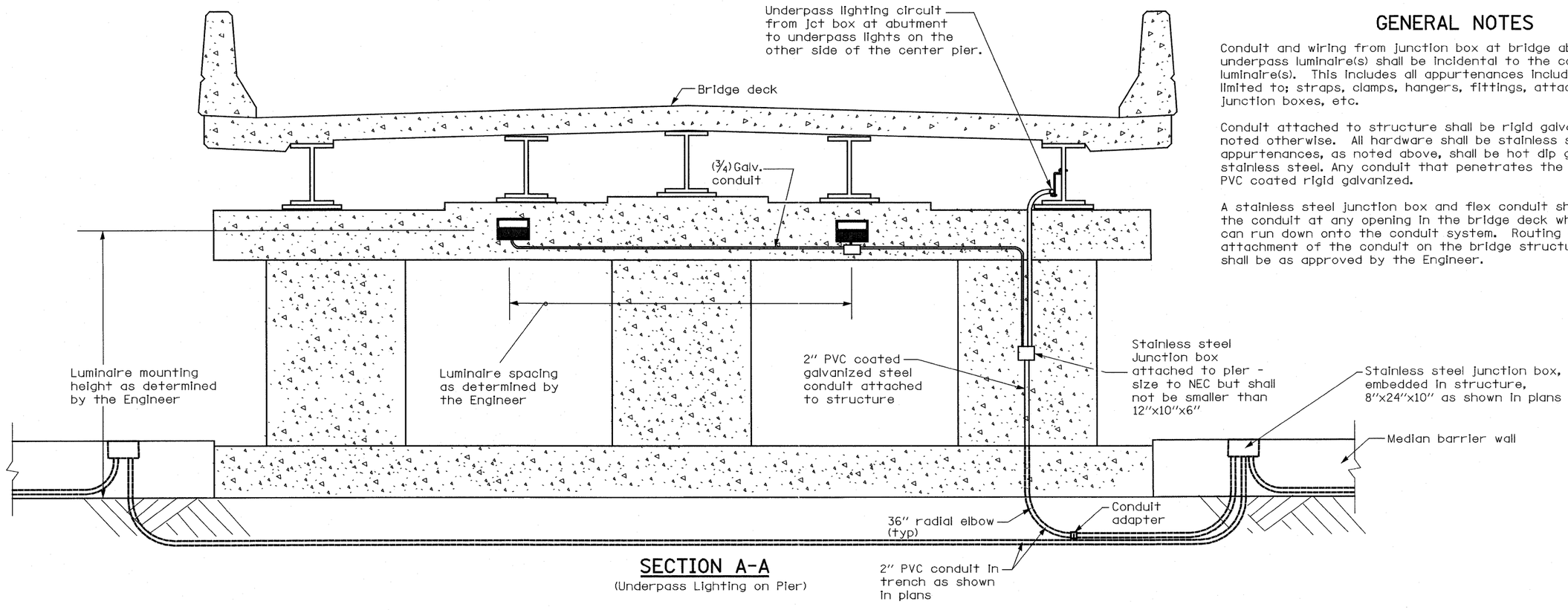
LIGHTING DETAILS PERFORMANCE TABLES

SCALE: | SHEET NO. 31 OF 34 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	329
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



OVERPASS ELEVATION
(Not to Scale)



SECTION A-A
(Underpass Lighting on Pier)

GENERAL NOTES

Conduit and wiring from junction box at bridge abutment to the underpass luminaire(s) shall be incidental to the cost of the underpass luminaire(s). This includes all appurtenances including, but not limited to; straps, clamps, hangers, fittings, attachments, hardware, junction boxes, etc.

Conduit attached to structure shall be rigid galvanized conduit unless noted otherwise. All hardware shall be stainless steel and all conduit appurtenances, as noted above, shall be hot dip galvanized or stainless steel. Any conduit that penetrates the ground shall be PVC coated rigid galvanized.

A stainless steel junction box and flex conduit shall be installed in the conduit at any opening in the bridge deck where road salt can run down onto the conduit system. Routing and method of attachment of the conduit on the bridge structure and across piers shall be as approved by the Engineer.

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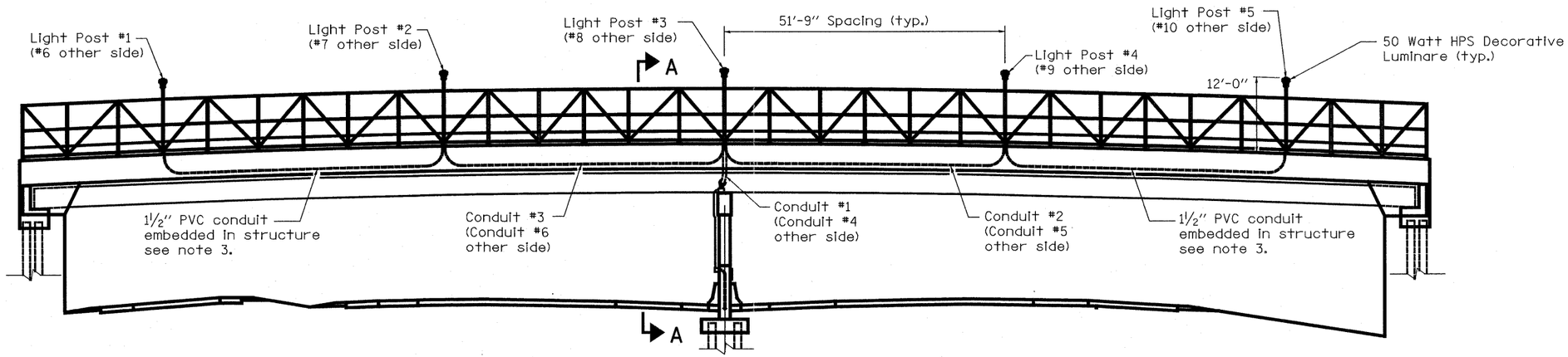
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/18/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

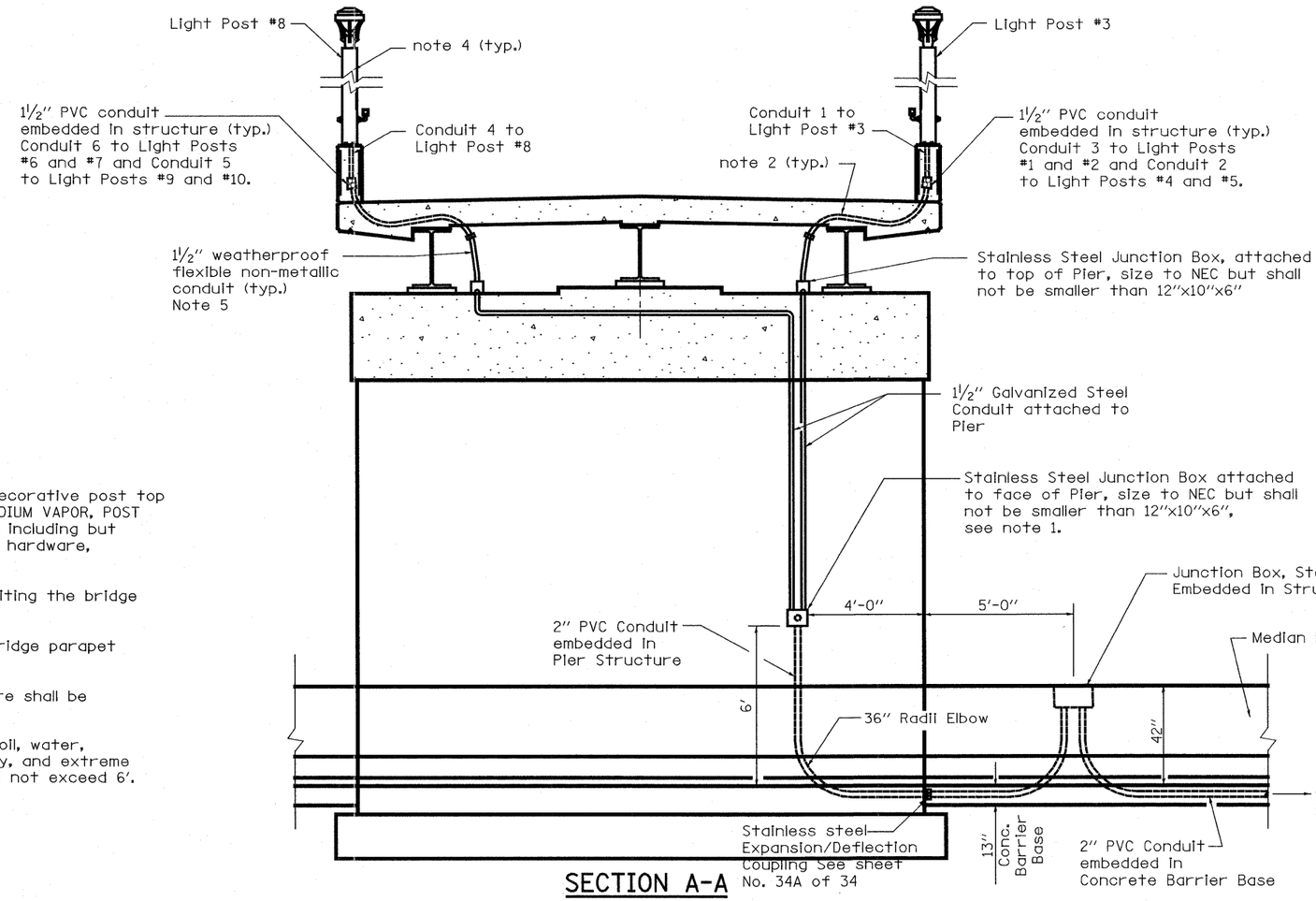
UNDERPASS LIGHTING, WITH CENTER PIER

SCALE: | SHEET NO. 32 OF 34 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	330
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ELEVATION



SECTION A-A

GENERAL NOTES

1. Conduit and wiring from junction box of bridge pier to the decorative post top luminaires shall be incidental to the cost of the LUMINAIRE, SODIUM VAPOR, POST TOP MOUNT DECORATIVE, 50 WATT. This includes all appurtenances including but not limited to: straps, clamps, hangers, fittings, attachments, hardware, junction boxes, etc.
2. See IDOT Bridge Manual Fig. 3.2.10-1 Section A-A for conduit exiting the bridge deck detail.
3. See IDOT Bridge Manual Fig. 3.2.10-2 for conduit embedded in bridge parapet detail.
4. Conductors from the post handhole to the decorative luminaire shall be installed in a protective duct or conduit.
5. Liquid tight flexible non-metalic conduit shall be resistant to oil, water, chemical, and UV and shall be suitable for outdoor, direct bury, and extreme cold use according to NEC Article 356. The conduit length shall not exceed 6'.

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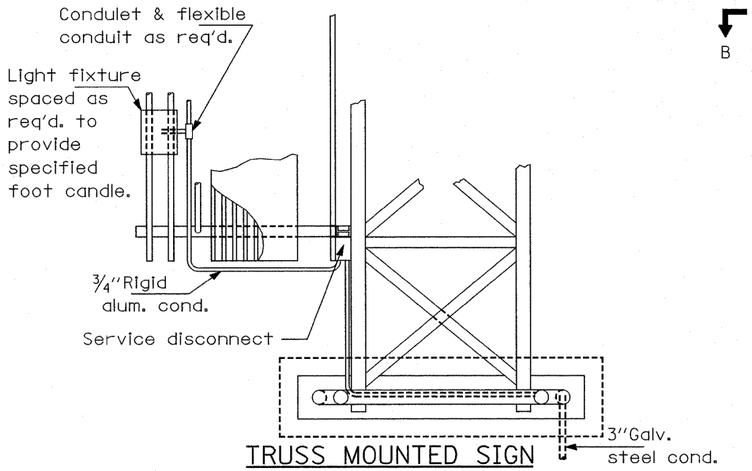
		DRAWN - WJS	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 3-4-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

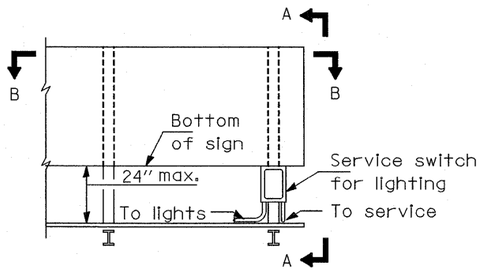
PEDESTRIAN BRIDGE LIGHTING DETAILS

SCALE: NTS | SHEET NO. 33 OF 34 SHEETS | STA. | TO STA.

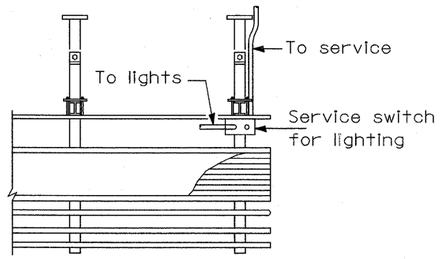
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	331
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



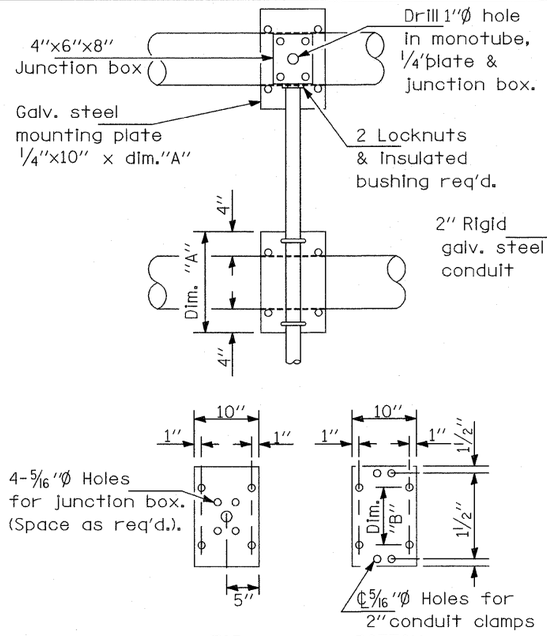
TRUSS MOUNTED SIGN



FRONT ELEVATION



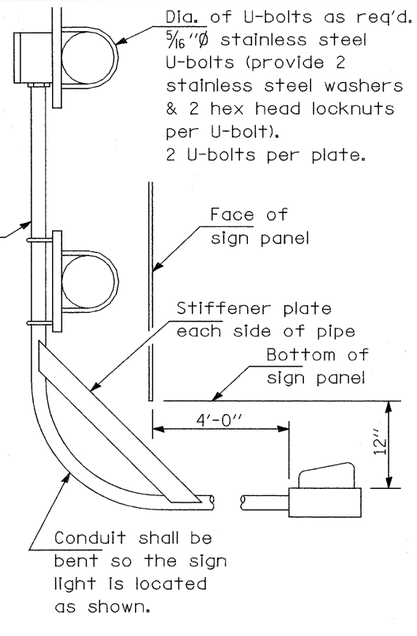
SECTION B-B



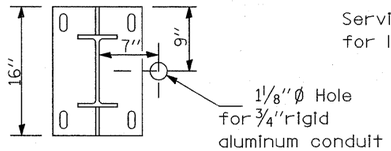
TOP BOTTOM

Dimension "A" = monotube dia. + 8"
Dimension "B" = monotube dia. + 3/8"

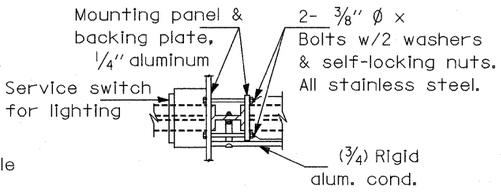
MOUNTING PLATES



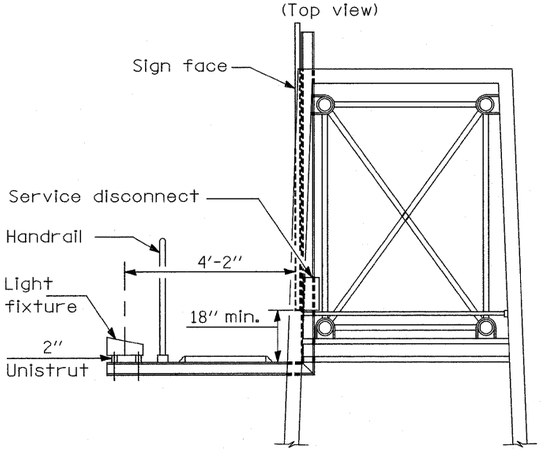
TWIN MONOTUBE



SECTION C-C

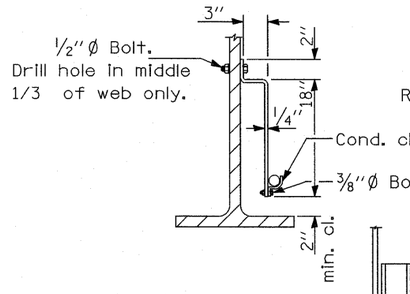


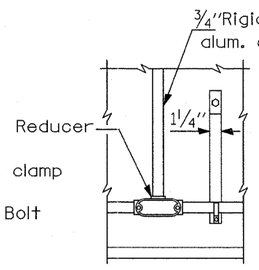
SECTION D-D

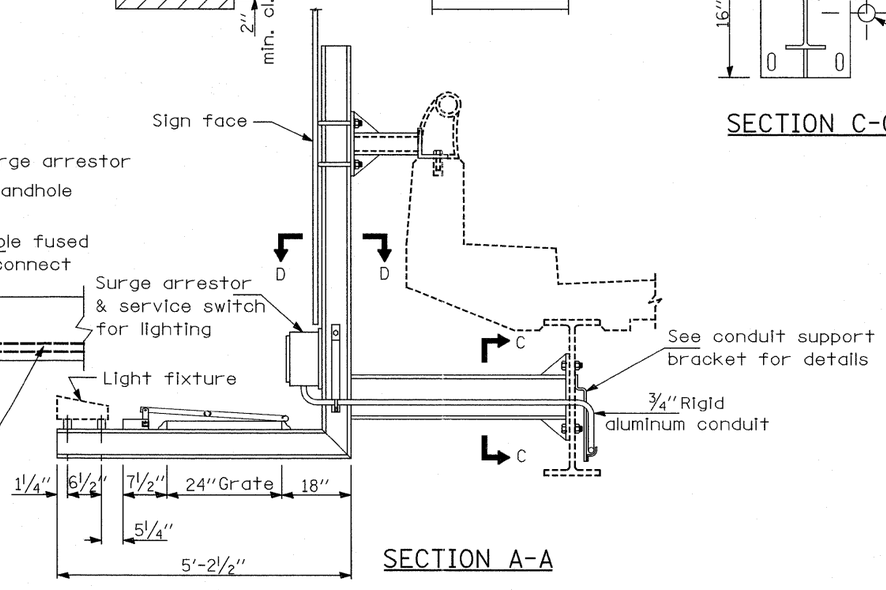


TRUSS MOUNTED SIGN
(Top view)

(Side elevation)







SECTION A-A

GENERAL NOTES

All sign lighting fixtures shall have a minimum of 3 mounting points.

All mounting hardware shall be stainless steel.

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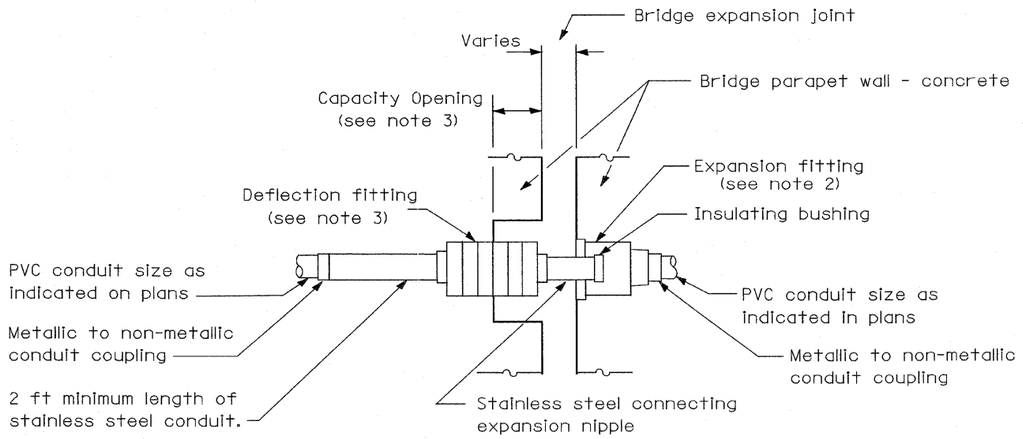
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -			57/70	(25-3,4)R	EFFINGHAM	1098	332
	PLOT DATE = 3/18/2011	DATE -	REVISED -		SCALE: SHEET NO. 34 OF 34 SHEETS STA. TO STA.			CONTRACT NO. 74299		
						FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CONDUIT EXPANSION/
DEFLECTION COUPLING DETAIL

GENERAL NOTES

1. The Contractor shall install a conduit expansion/deflection coupling at the joints in the concrete parapet on the bridge capable of accepting the longitudinal movement. All mettalic parts of the coupling shall be made of stainless steel or as approved by the Engineer. Any non-stainless metal shall be hot dip galvanized and coated to prevent reaction with the concrete. The cost of the coupling shall be part of and incidental to the conduit system.

2. The barrel in the expansion fitting shall be fully embedded in the concrete on one side of the expansion joint. One half the length of the deflection fitting shall be embedded in the concrete on the other side of the coupling.

3. A cavity opening 3" larger in diameter than the deflection fitting shall be provided in the concrete to ensure proper performance of the coupling.

4. Careful attention to joint movement over a range of temperatures shall be coordinated with the selection and installation of the coupling to ensure the range of movement of the coupling is not exceeded at temperature extremes.

5. All manufacturer's installation instructions shall be carefully followed to ensure optimum performance of the expansion/deflection coupling.

6. The Contractor shall install couplings at all bridge expansion joints and shall be responsible to determine the proper number of couplings required.

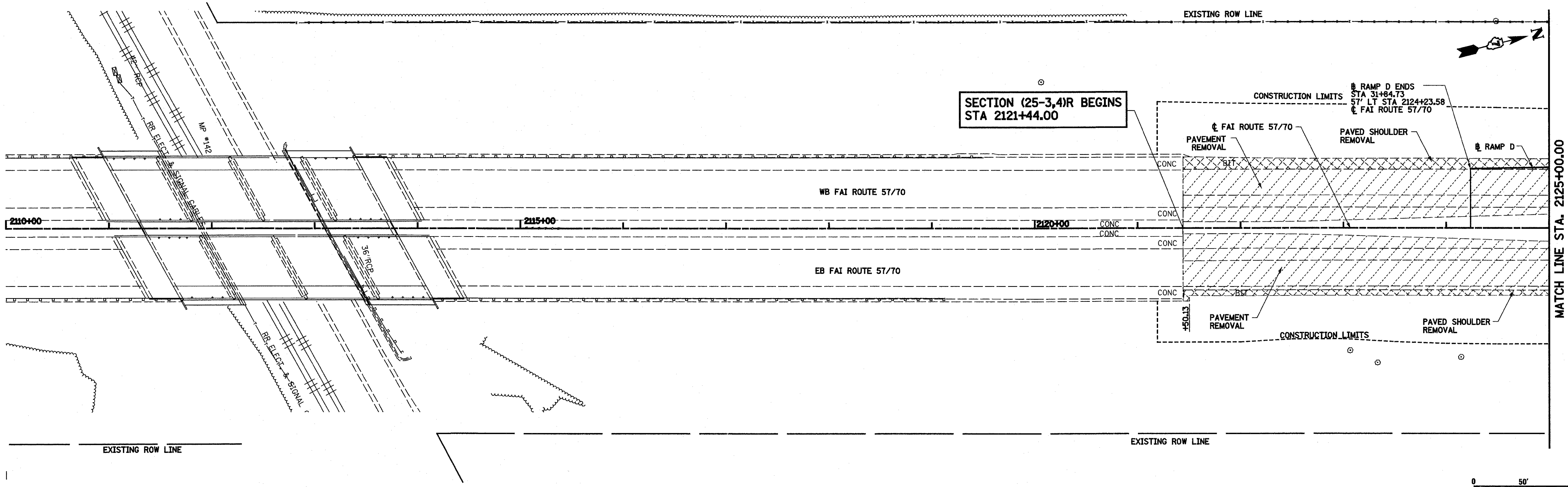
FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\lighting det4.dgn	USER NAME = paul	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/18/2011	DATE -	REVISED -

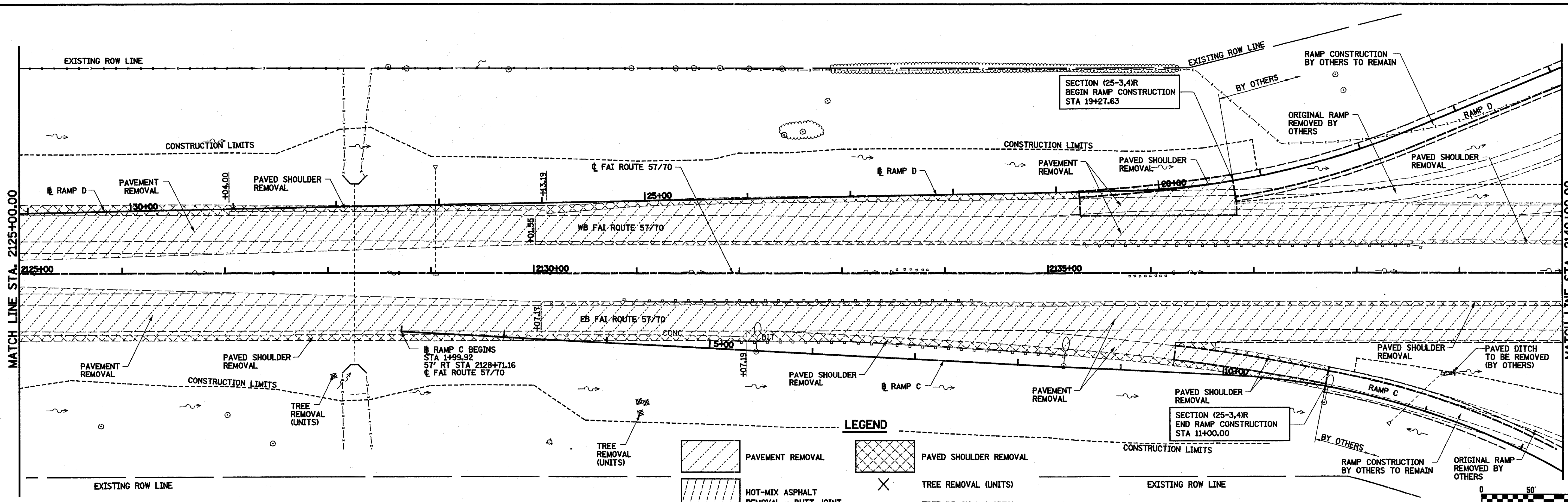
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONDUIT COUPLING EXPANSION / DEFLECTION

SCALE: | SHEET NO. 34A OF 34 SHEETS | STA. | TO STA.

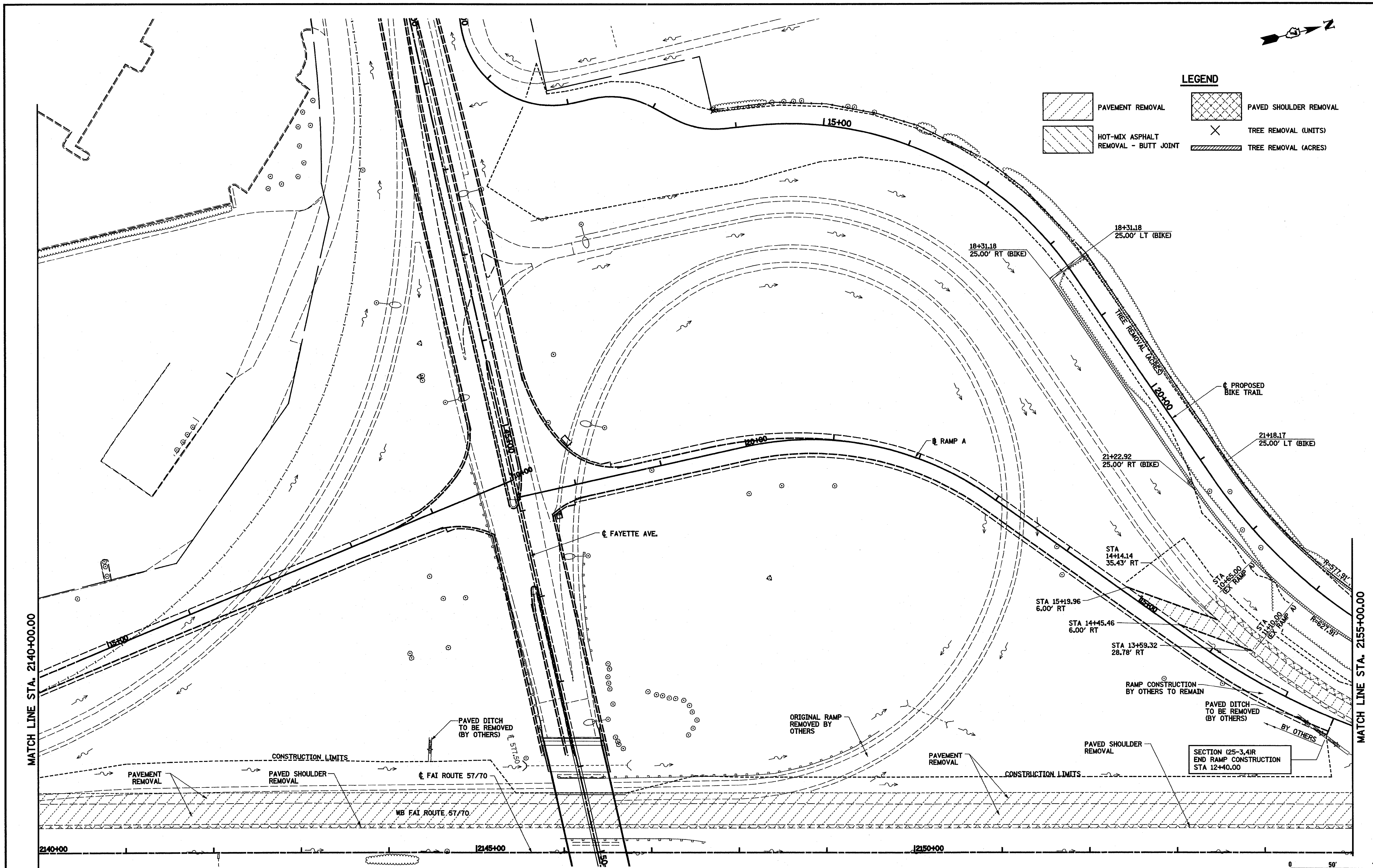
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	332A
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



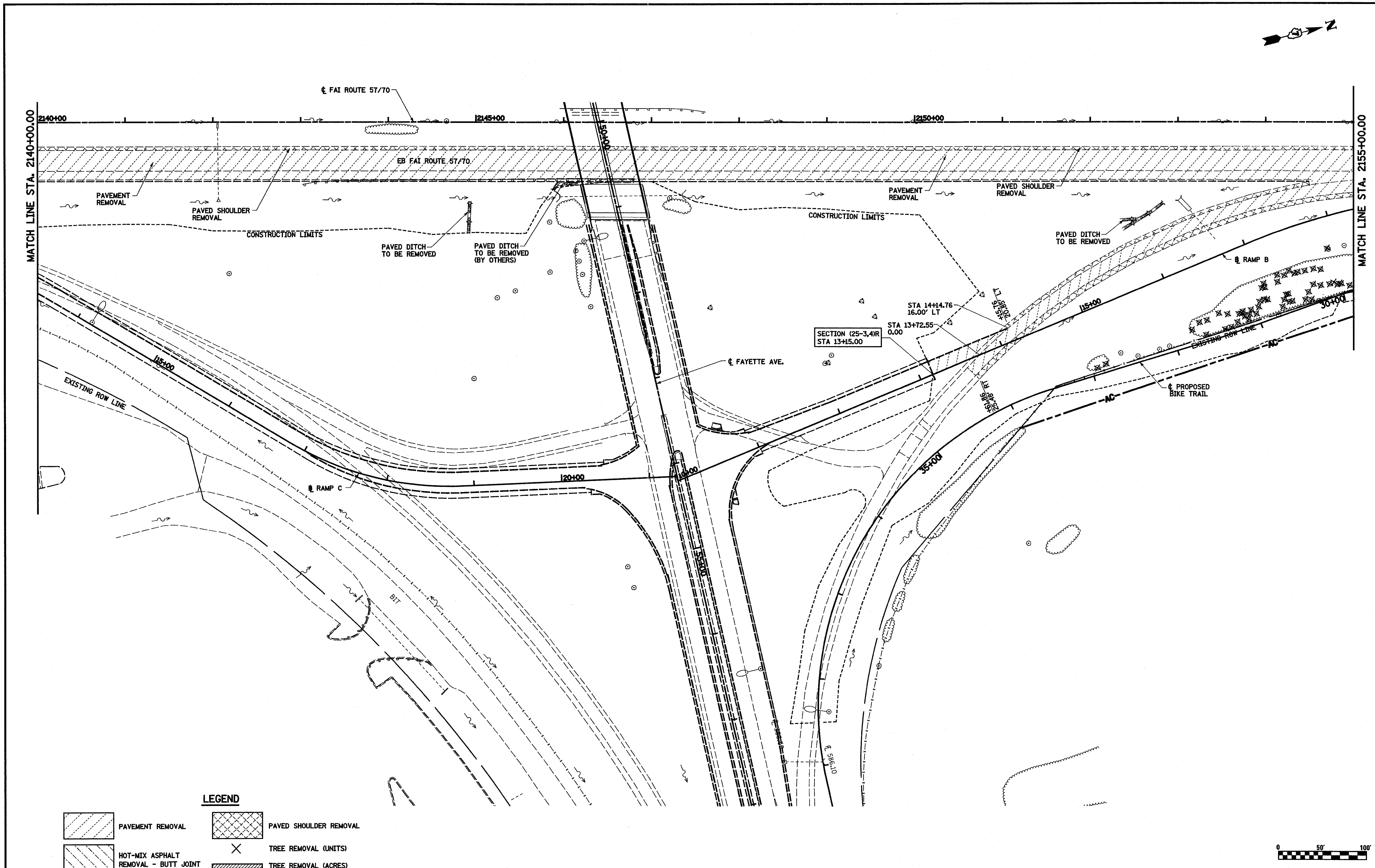


FILE NAME = S:\Projects\...	USER NAME = bseibel	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN, FAI ROUTE 57/70
		DRAWN - PDB	REVISED -		
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -		
	PLOT DATE = 3/18/2011	DATE - 5-02-08	REVISED -		SCALE: 1"=50' · SHEET NO. 1 OF 9 SHEETS · STA. 2121+44.00 TO STA. 2125+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	333
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FILE NAME =	USER NAME = bseibel	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN, FAI ROUTE 57/70	F.A.I. RTE. 57/70; SECTION (25-3,4)R; COUNTY EFFINGHAM; TOTAL SHEETS 1098; SHEET NO. 334
		DRAWN - PDB	REVISED -			CONTRACT NO. 74299
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -		SCALE: 1"=50' SHEET NO. 2 OF 9 SHEETS STA. 2125+00.00 TO STA. 2155+00.00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
	PLOT DATE = 3/18/2011	DATE - 5-02-08	REVISED -			



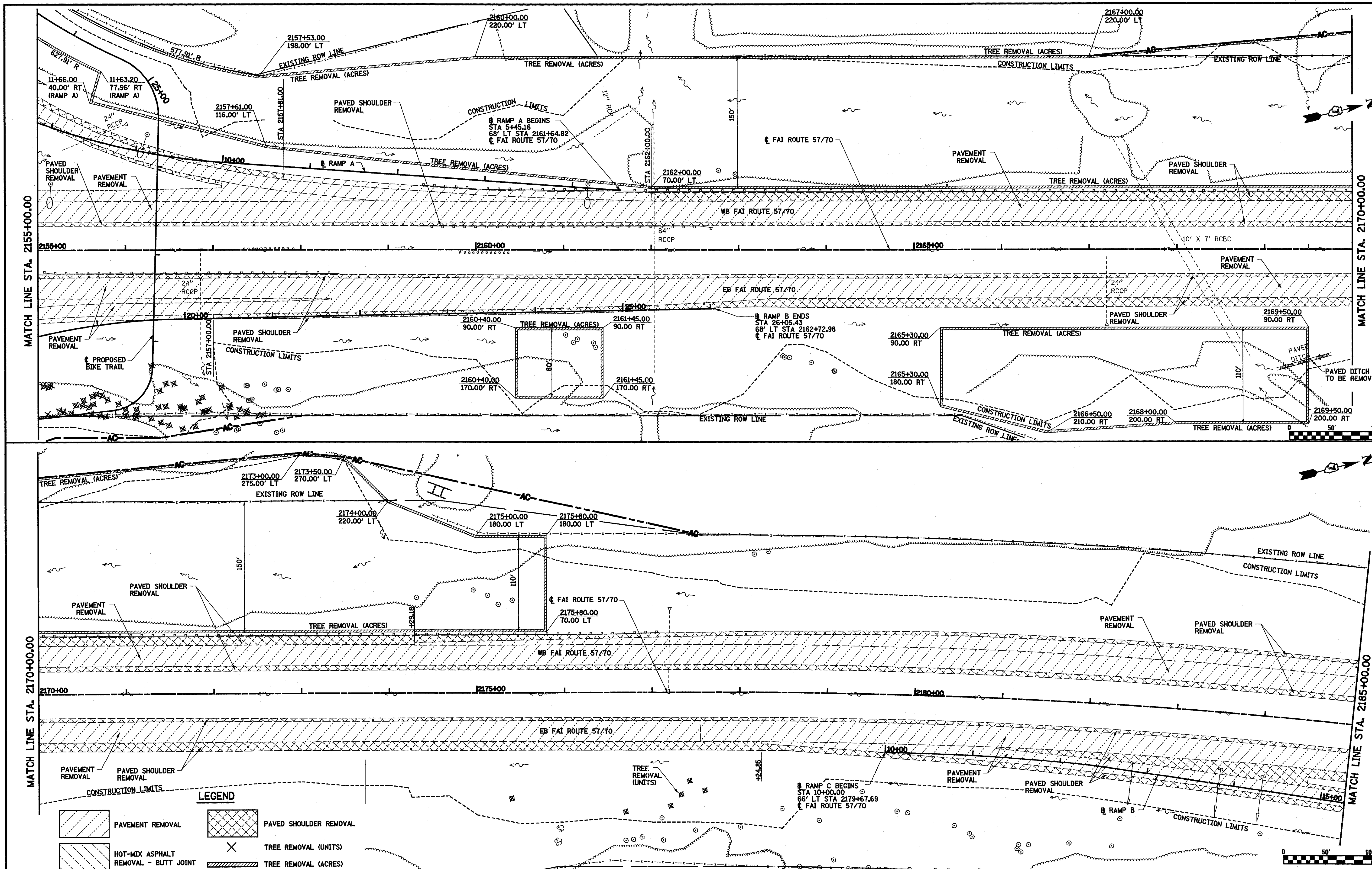
FILE NAME = S:\Projects\483-88872.57-70\dgn\M_Keller\removal keller.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 5-02-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 3 OF 9 SHEETS | STA. 2125+00.00 TO STA. 2155+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	335
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		


MATCH LINE STA. 2155+00.00
MATCH LINE STA. 2170+00.00
2157+53.00
198.00' LT
2160+00.00
220.00' LT
2167+00.00
220.00' LT
577.91' R
627.91' R
EXISTING ROW LINE
TREE REMOVAL (ACRES)
CONSTRUCTION LIMITS
11+66.00
40.00' RT
(RAMP A)
11+63.20
77.96' RT
(RAMP A)
25+00
2157+61.00
116.00' LT
STA 2157+61.00
PAVED SHOULDER REMOVAL
℄ RAMP A BEGINS
STA 5+45.16
68' LT STA 2161+64.82
℄ FAI ROUTE 57/70
12" RCP
24" RCCP
150'
STA 2162+00.00
℄ FAI ROUTE 57/70
PAVEMENT REMOVAL
10+00
℄ RAMP A
2162+00.00
70.00' LT
WB FAI ROUTE 57/70
84" RCCP
2155+00
2160+00
2165+00
10' X 7' RCBC
EB FAI ROUTE 57/70
20+00
25+00
STA 2157+00.00
2160+40.00
90.00' RT
2161+45.00
90.00 RT
℄ RAMP B ENDS
STA 26+05.43
68' LT STA 2162+72.98
℄ FAI ROUTE 57/70
℄ PROPOSED BIKE TRAIL
80'
2160+40.00
170.00' RT
2161+45.00
170.00 RT
2165+30.00
90.00 RT
2165+30.00
180.00 RT
2169+50.00
90.00 RT
PAVED DITCH
PAVED DITCH TO BE REMOVED
110'
2166+50.00
210.00 RT
2168+00.00
200.00 RT
2169+50.00
200.00 RT
24" RCCP
0 50' 100'
2173+00.00
275.00' LT
2173+50.00
270.00' LT
2174+00.00
220.00' LT
2175+00.00
180.00 LT
2175+80.00
180.00 LT
MATCH LINE STA. 2185+00.00
℄ FAI ROUTE 57/70
2175+80.00
70.00 LT
+23.18
2170+00
2175+00
2180+00
TREE REMOVAL (UNITS)
+24.85
℄ RAMP C BEGINS
STA 10+00.00
66' LT STA 2179+67.69
℄ FAI ROUTE 57/70
10+00
15+00
℄ RAMP B
LEGEND
PAVEMENT REMOVAL
PAVED SHOULDER REMOVAL
HOT-MIX ASPHALT REMOVAL - BUTT JOINT
TREE REMOVAL (UNITS)
TREE REMOVAL (ACRES)

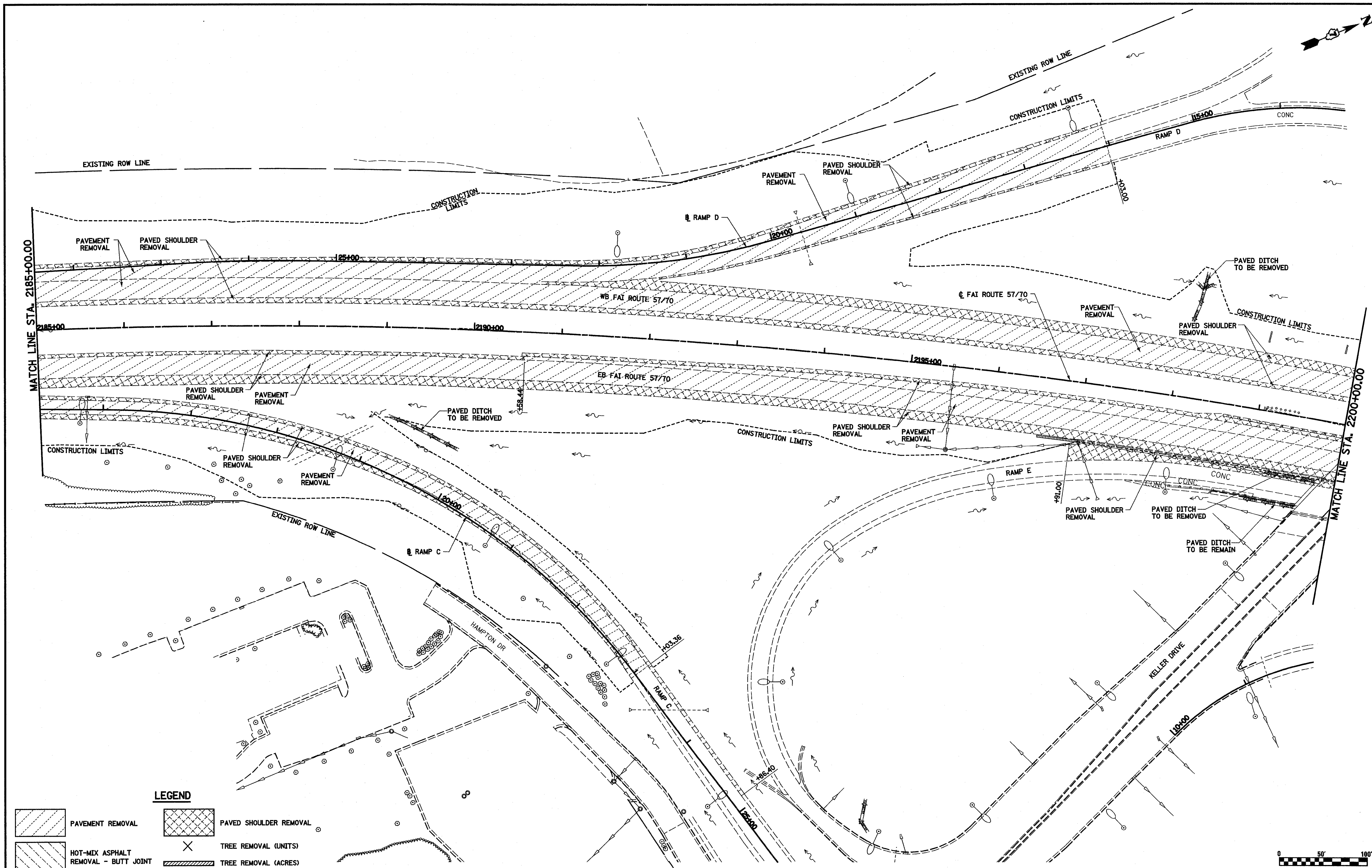
FILE NAME = S:\Projects\403-00072.57-70\dgn\ML_Sallie\removal ballier.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - PDB	REVISED -	
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -	
	PLOT DATE = 3/18/2011	DATE - 5-02-08	REVISED -	

REMOVAL PLAN, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 4 OF 9 SHEETS | STA. 2155+00.00 TO STA. 2185+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	336
		CONTRACT NO. 74299		

FED. ROAD DIST. NO. 2 | ILLINOIS | FED. AID PROJECT



EXISTING ROW LINE
CONSTRUCTION LIMITS
RAMP D
15+00
CONC
+03.00
PAVEMENT REMOVAL
PAVED SHOULDER REMOVAL
℄ RAMP D
20+00
25+00
MATCH LINE STA. 2185+00.00
2185+00
2190+00
2195+00
WB FAI ROUTE 57/70
EB FAI ROUTE 57/70
℄ FAI ROUTE 57/70
PAVED DITCH TO BE REMOVED
+58.44
RAMP E
+91.00
PAVED DITCH TO BE REMAIN
MATCH LINE STA. 2200+00.00
℄ RAMP C
RAMP C
+03.36
+86.40
HAMPTON DR
KELLER DRIVE
10+00
LEGEND
PAVEMENT REMOVAL
PAVED SHOULDER REMOVAL
HOT-MIX ASPHALT REMOVAL - BUTT JOINT
TREE REMOVAL (UNITS)
TREE REMOVAL (ACRES)
0
50'
100'

S:\Projects\403-88872.57-70\dgn\HL_Keller\removal keller.dgn

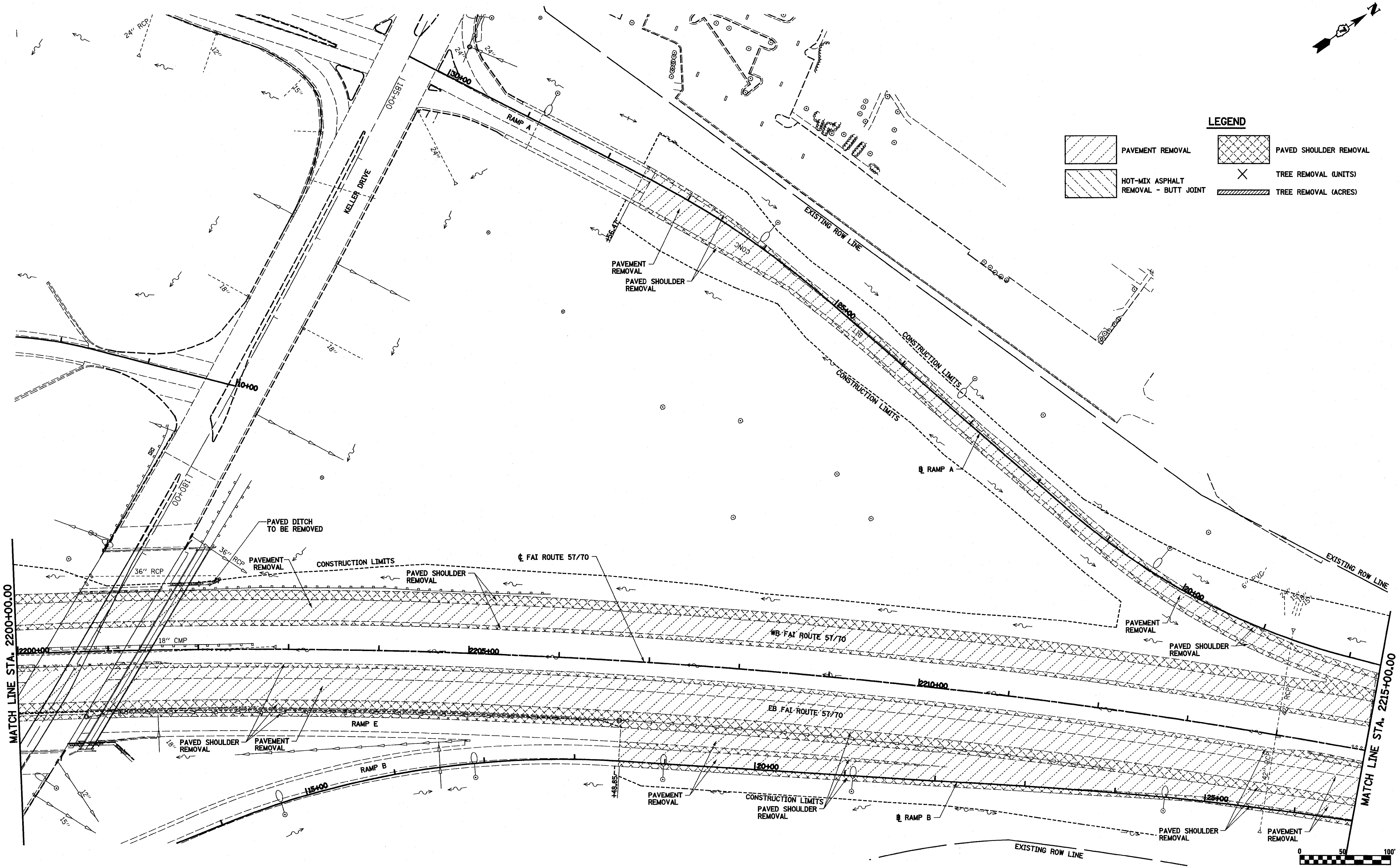
	DESIGNED - JWS	REVISED -	
	DRAWN - PDB	REVISED -	
PLOT SCALE = 100.0000 '/ IN.	CHECKED - BMJ	REVISED -	
PLOT DATE = 3/18/2011	DATE - 5-02-08	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 5 OF 9 SHEETS | STA. 2185+00.00 TO STA. 2200+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	337
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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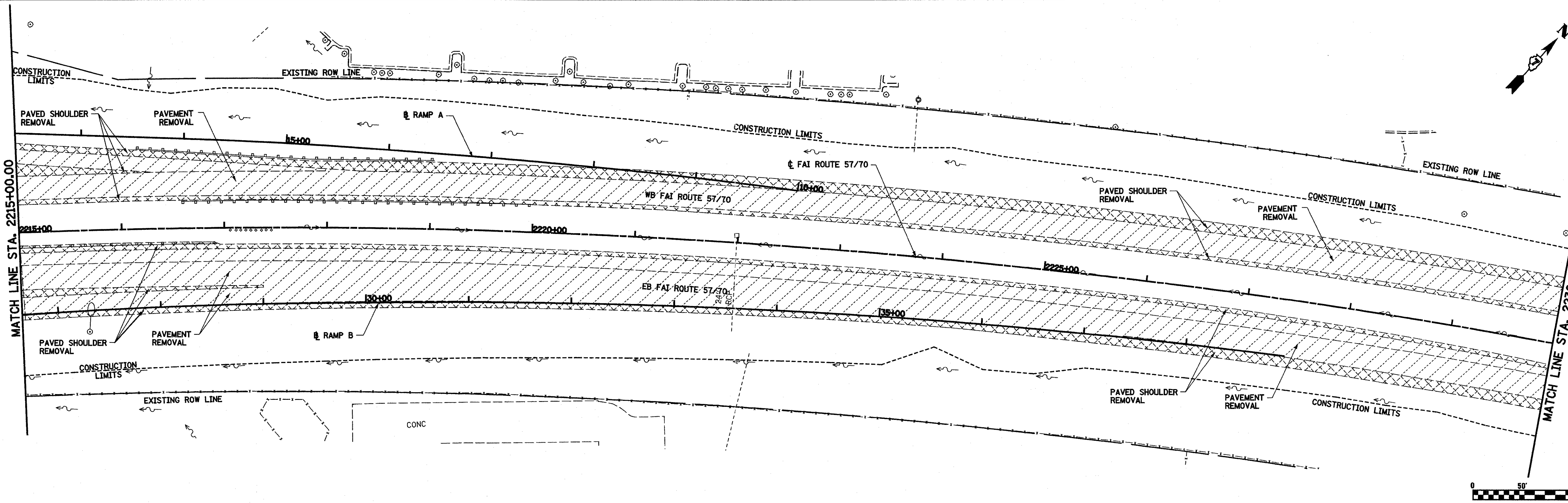
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BMJ	REVISED -
	PLOT DATE = 3/18/2011	DATE -	REVISED -

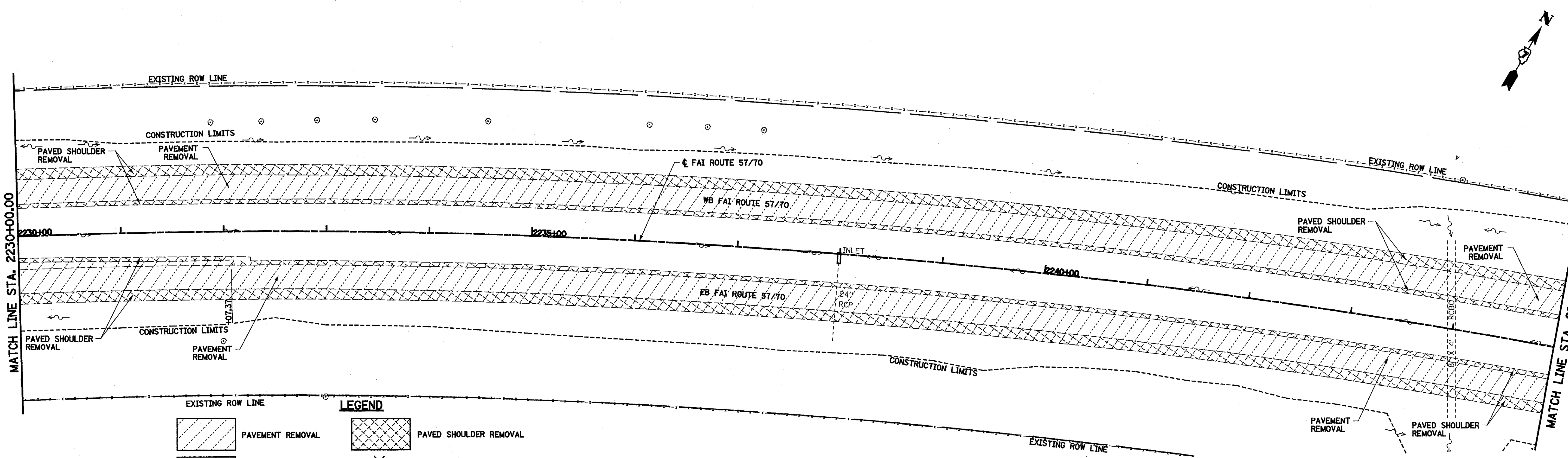
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN, FAI ROUTE 57/70

SCALE: 1"=50'	SHEET NO. 6 OF 9 SHEETS	STA. 2200+00.00 TO STA. 2215+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	338
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





LEGEND

PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL
HOT-MIX ASPHALT REMOVAL - BUTT JOINT	TREE REMOVAL (UNITS)
	TREE REMOVAL (ACRES)

FILE NAME = S:\Projects\403-00072_57-70\dgn\HL_Keller\removal keller.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -
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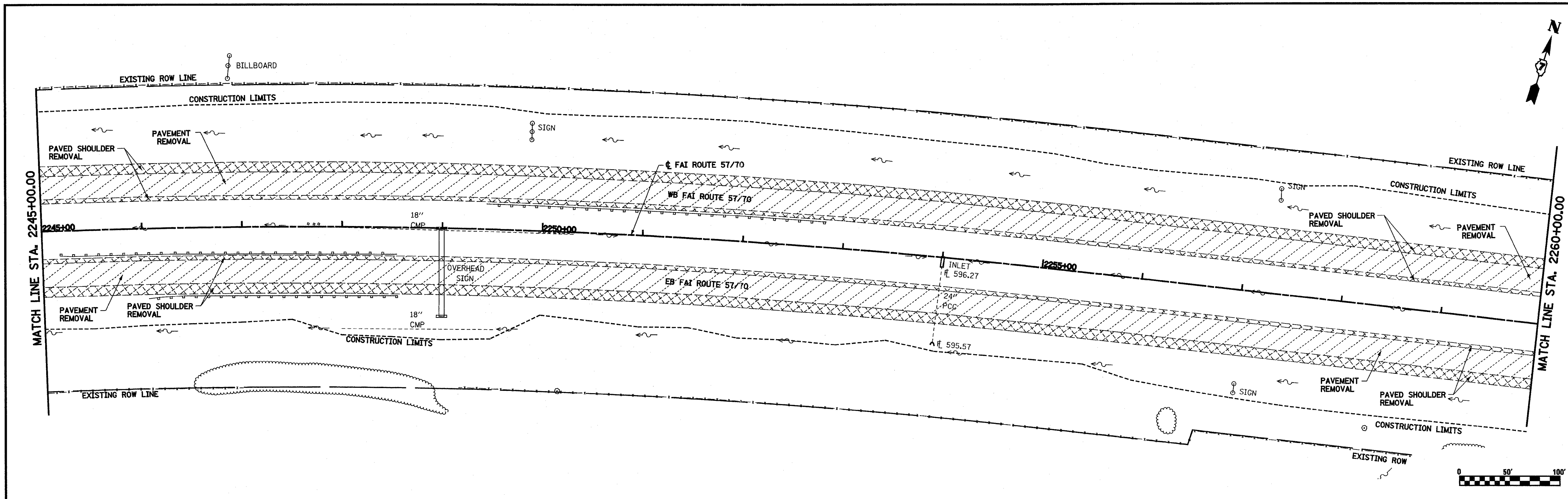
	PLOT DATE = 3/18/2011	DATE - 5-02-08	REVISED -

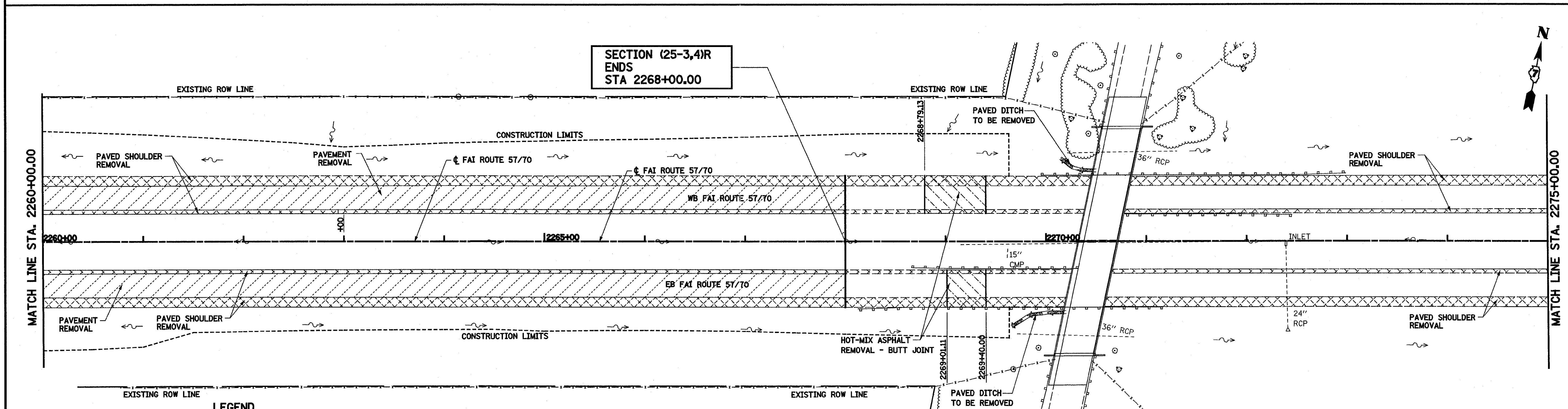
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 7 OF 9 SHEETS | STA. 2215+00.00 TO STA. 2245+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	339
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





LEGEND

- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- HOT-MIX ASPHALT REMOVAL - BUTT JOINT
- TREE REMOVAL (UNITS)
- TREE REMOVAL (ACRES)

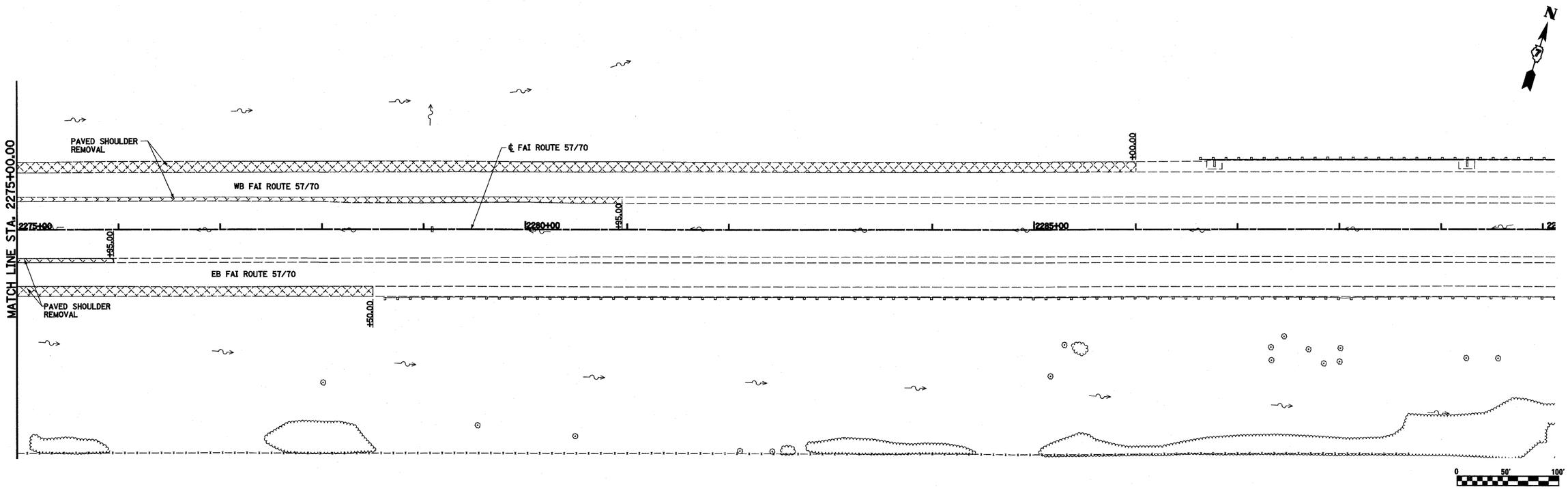
FILE NAME = S:\Projects\I483-88072_57-70\dgn\ML_Keller\removal keller.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 5-02-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN, FAI ROUTE 57/70

SCALE: 1"=50' | SHEET NO. 8 OF 9 SHEETS | STA. 2245+00.00 TO STA. 2268+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFEINGHAM	1098	340
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

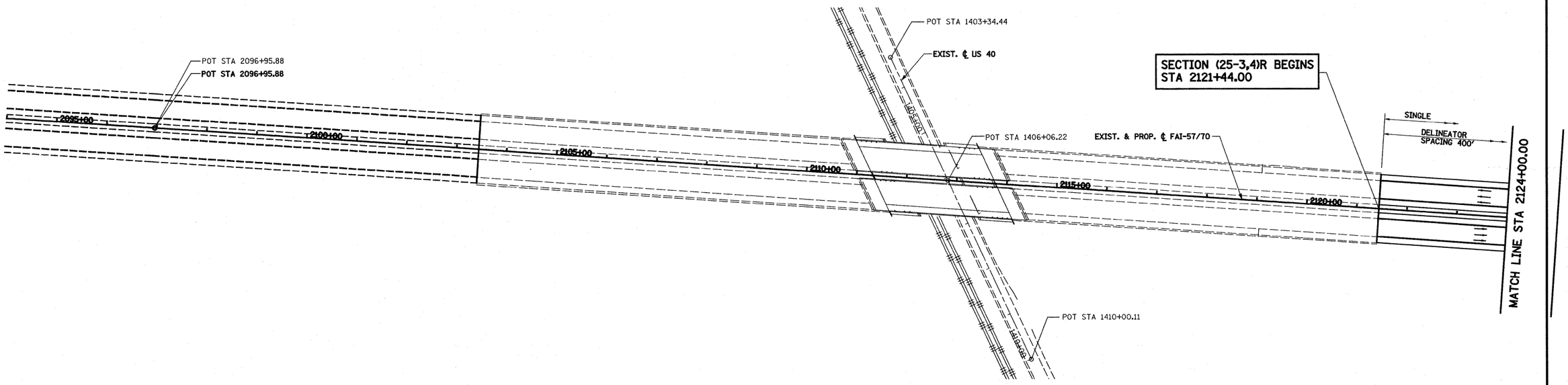


LEGEND

- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- HOT-MIX ASPHALT REMOVAL - BUTT JOINT
- TREE REMOVAL (UNITS)
- TREE REMOVAL (ACRES)

FILE NAME = S:\Projects\683-08072.57-70\dgn\Mt_Kalle\removal kalle.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN, FAI ROUTE 57/70
		DRAWN - PDB	REVISED -		
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - BRM	REVISED -		
	PLOT DATE = 3/18/2011	DATE - 5-02-08	REVISED -		SCALE: 1"=50' | SHEET NO. 9 OF 9 SHEETS | STA. 2245+00.00 TO STA. 2268+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFEINGHAM	1098	341
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

PROPOSED DELINEATOR •

EXISTING DELINEATOR o

NOTE: SINGLE REFLECTOR UNITS SHALL BE USED IN ALL LOCATIONS UNLESS OTHERWISE NOTED.

NOTE: FOR EXISTING ALIGNMENTS AND CONTROLS PRESENTED ON THIS SHEET SEE HORIZONTAL CONTROL SHEET.

0 100' 200'

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\delineator detail.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 200.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 5-07-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DELINEATOR DETAIL, FAI ROUTES 57/70

SCALE: 1"=100' | SHEET NO. 1 OF 7 SHEETS | STA 2094+00.00 TO STA 2124+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	342
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROP. FAYETTE RAMP A
CURVE C53
PI STA = 12+14.41
Δ = 31° 30′ 34″ (RT)
D = 7° 32′ 20″
R = 760.00′
T = 214.41′
L = 417.96′
E = 29.67′
e = 8.00%
T.R. = 48.00′
S.E. RUN = 255.00′
P.C. STA = 10+00.00
P.T. STA = 14+17.96
SE ATTAINED STA 8+60.00
TO STA 10+70.00 (2.00% TO 8.00%)
SE REMOVED STA 13+32.96
TO STA 15+90.50 (8.00% TO 0.0%)

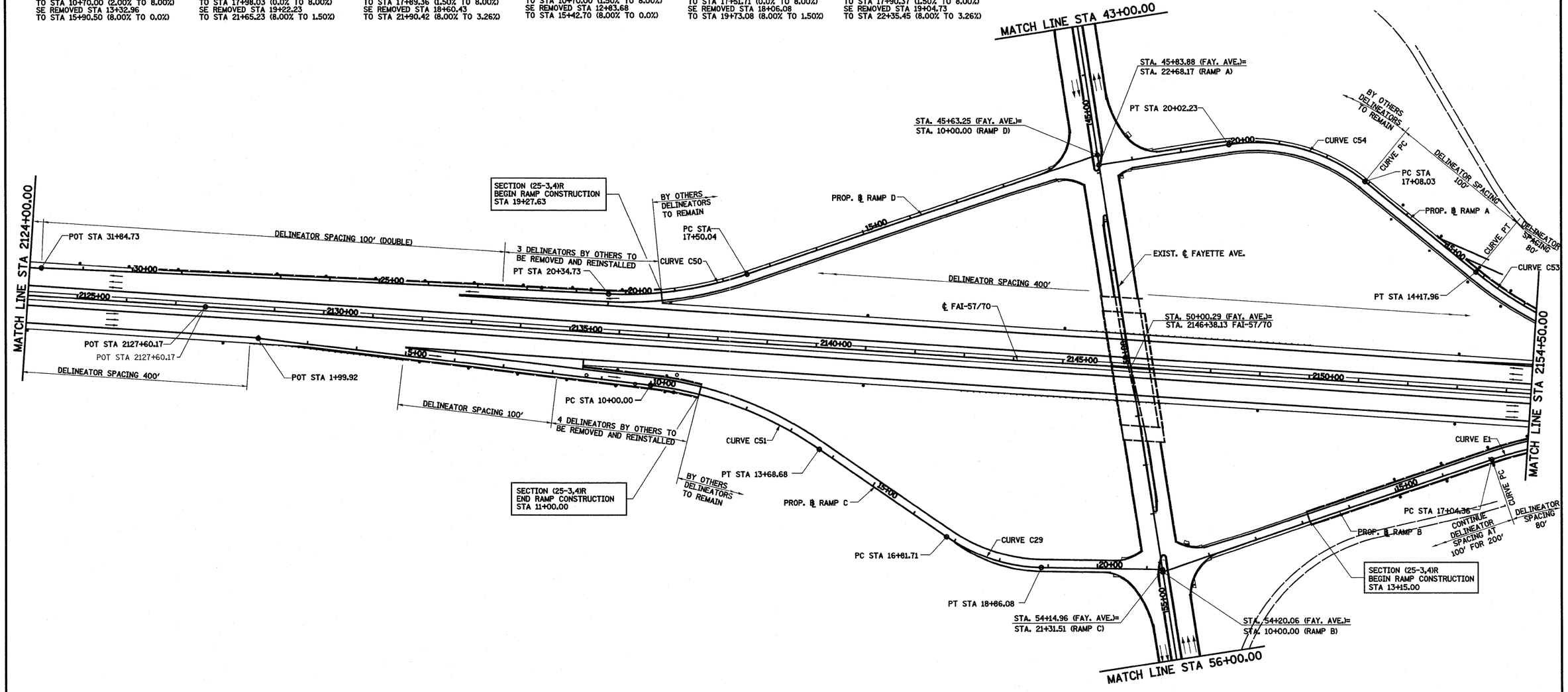
PROP. FAYETTE RAMP A
CURVE C54
PI STA = 18+64.45
Δ = 48° 09′ 41″ (LT)
D = 16° 22′ 13″
R = 350.00′
T = 156.42′
L = 294.20′
E = 33.36′
e = 8.00%
T.R. = 38.00′
S.E. RUN = 205.00′
P.C. STA = 17+08.03
P.T. STA = 20+02.23
SE ATTAINED STA 15+90.50
TO STA 17+98.03 (0.0% TO 8.00%)
SE REMOVED STA 19+22.23
TO STA 21+65.23 (8.00% TO 1.50%)

PROP. FAYETTE RAMP B
CURVE E1
PI STA = 18+49.11
Δ = 21° 34′ 00″ (RT)
D = 7° 32′ 20″
R = 760.00′
T = 144.75′
L = 286.07′
E = 13.66′
e = 8.00%
T.R. = N/A
S.E. RUN = 207.00′
P.C. STA = 17+04.36
P.T. STA = 19+90.43
SE ATTAINED STA 15+82.36
TO STA 17+69.36 (1.50% TO 8.00%)
SE REMOVED STA 18+60.43
TO STA 21+90.42 (8.00% TO 3.26%)

PROP. FAYETTE RAMP C
CURVE C51
PI STA = 11+88.04
Δ = 27° 47′ 40″ (RT)
D = 7° 32′ 20″
R = 760.00′
T = 188.04′
L = 368.68′
E = 22.92′
e = 8.00%
T.R. = 48.00′
S.E. RUN = 255.00′
P.C. STA = 10+00.00
P.T. STA = 13+68.68
SE ATTAINED STA 8+60.00
TO STA 10+70.00 (1.50% TO 8.00%)
SE REMOVED STA 12+83.68
TO STA 15+42.70 (8.00% TO 0.0%)

PROP. FAYETTE RAMP C
CURVE C29
PI STA = 17+86.90
Δ = 33° 27′ 19″ (LT)
D = 16° 22′ 13″
R = 350.00′
T = 105.19′
L = 204.37′
E = 15.47′
e = 8.00%
T.R. = 38.00′
S.E. RUN = 205.00′
P.C. STA = 16+81.71
P.T. STA = 18+86.08
SE ATTAINED STA 15+42.70
TO STA 17+51.71 (0.0% TO 8.00%)
SE REMOVED STA 18+06.08
TO STA 19+73.08 (8.00% TO 1.50%)

PROP. FAYETTE RAMP D
CURVE C50
PI STA = 18+94.07
Δ = 21° 27′ 44″ (RT)
D = 7° 32′ 20″
R = 760.00′
T = 144.03′
L = 284.69′
E = 13.53′
e = 8.00%
T.R. = N/A
S.E. RUN = 207.00′
P.C. STA = 17+50.04
P.T. STA = 20+34.73
SE ATTAINED STA 15+83.37
TO STA 17+90.37 (1.50% TO 8.00%)
SE REMOVED STA 19+04.73
TO STA 22+35.45 (8.00% TO 3.26%)



LEGEND

PROPOSED DELINEATOR •
EXISTING DELINEATOR ○

NOTE: SINGLE REFLECTOR UNITS SHALL BE USED IN ALL LOCATIONS UNLESS OTHERWISE NOTED.

NOTE: FOR EXISTING ALIGNMENTS AND CONTROLS PRESENTED ON THIS SHEET SEE HORIZONTAL CONTROL SHEET.

0 100′ 200′

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\delineator_detdldgn	USER NAME = baeibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 200.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 5-07-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DELINEATOR DETAIL, FAI ROUTES 57/70

SCALE: 1″=100′ | SHEET NO. 2 OF 7 SHEETS | STA 2124+00.00 TO STA 2154+50.00

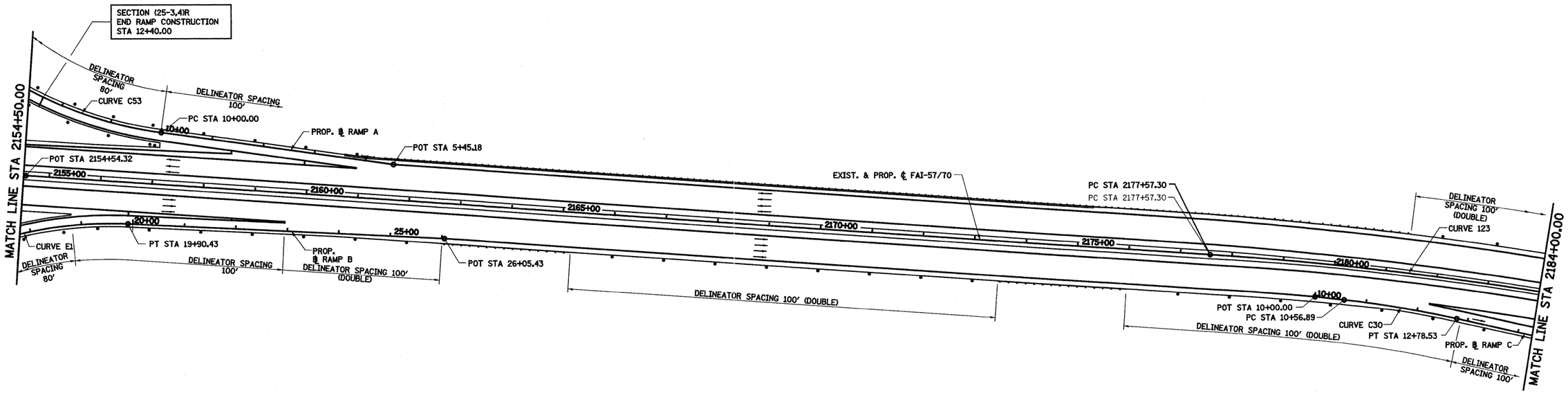
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	343
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. & PROP. FAI-57/70
CURVE C123
PI STA = 2221+23.36
Δ = 64° 49' 07" (RT)
D = 0° 49' 59"
R = 6,877.35'
T = 4,366.06'
L = 7,780.33'
E = 1,268.84'
e = 2.90%
T.R. = 112.50'/90.00'
S.E. RUN = 217.50'/174.00'
P.C. STA = 2177+57.30
P.T. STA = 2255+37.63
SE ATTAINED STA 2174+62.30
TO STA 2178+29.80 (2.00% TO 2.90%)
SE REMOVED STA 2254+79.63
TO STA 2257+73.63 (2.90% TO 2.00%)

PROP. FAYETTE RAMP A
CURVE C53
PI STA = 12+14.41
Δ = 31° 30' 34" (RT)
D = 7° 32' 20"
R = 760.00'
T = 214.41'
L = 417.96'
E = 29.67'
e = 8.00%
T.R. = 48.00'
S.E. RUN = 255.00'
P.C. STA = 10+00.00
P.T. STA = 14+17.96
SE ATTAINED STA 8+60.00
TO STA 10+70.00 (2.00% TO 8.00%)
SE REMOVED STA 13+32.96
TO STA 15+90.50 (8.00% TO 0.0%)

PROP. FAYETTE RAMP B
CURVE E1
PI STA = 18+49.11
Δ = 21° 34' 00" (RT)
D = 7° 32' 20"
R = 760.00'
T = 144.75'
L = 286.07'
E = 13.66'
e = 8.00%
T.R. = N/A
S.E. RUN = 207.00'
P.C. STA = 17+04.36
P.T. STA = 19+90.43
SE ATTAINED STA 15+82.36
TO STA 17+89.36 (1.50% TO 8.00%)
SE REMOVED STA 18+60.43
TO STA 21+90.42 (8.00% TO 3.26%)

PROP. KELLER DRIVE RAMP C
CURVE C30
PI STA = 11+67.82
Δ = 6° 11' 41" (RT)
D = 2° 47' 42"
R = 2,050.00'
T = 110.93'
L = 221.64'
E = 3.00'
P.C. STA = 10+56.89
P.T. STA = 12+78.53



LEGEND

PROPOSED DELINEATOR •
EXISTING DELINEATOR o

NOTE: SINGLE REFLECTOR UNITS SHALL BE USED IN ALL LOCATIONS UNLESS OTHERWISE NOTED.

NOTE: FOR EXISTING ALIGNMENTS AND CONTROLS PRESENTED ON THIS SHEET SEE HORIZONTAL CONTROL SHEET.

0 100' 200'

FILE NAME = S:\Projects\403-00072_57-70\dgn\Mi_Keller\delineator detailsdgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 200.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 5-07-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DELINEATOR DETAIL, FAI ROUTES 57/70

SCALE: 1"=100' | SHEET NO. 3 OF 7 SHEETS | STA 2154+50.00 TO STA 2184+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	344
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROP. KELLER DR. RAMP A CURVE C58
PI STA = 19+83.27
Δ = 26° 53′ 22″ (RT)
D = 7° 32′ 20″
R = 760.00′
T = 181.68′
L = 356.68′
E = 21.42′
e = 8.00%
T.R. = 48.00′
S.E. RUN = 255.00′
P.C. STA = 18+01.59
P.T. STA = 21+58.26
SE ATTAINED STA 16+61.89
TO STA 18+71.59 (1.50% TO 8.00%)
SE REMOVED STA 20+73.26
TO STA 23+76.26 (8.00% TO -1.50%)

PROP. KELLER DR. RAMP A CURVE C57
PI STA = 26+31.51
Δ = 14° 15′ 04″ (LT)
D = 5° 40′ 22″
R = 1,010.00′
T = 126.26′
L = 251.22′
E = 7.86′
e = 4.20%
T.R. = 38.00′
S.E. RUN = 105.00′
P.C. STA = 25+05.25
P.T. STA = 27+56.47
SE ATTAINED STA 24+73.25
TO STA 25+40.25 (-1.50% TO -4.20%)
SE REMOVED STA 26+96.47
TO STA 27+56.47 (-4.20% TO -2.81%)

PROP. KELLER DR. RAMP B CURVE C132
PI STA = 10+96.85
Δ = 35° 47′ 02″ (RT)
D = 19° 05′ 55″
R = 300.00′
T = 96.85′
L = 187.36′
E = 15.25′
P.C. STA = 10+00.00
P.T. STA = 11+87.36

PROP. KELLER DR. RAMP B CURVE C131
PI STA = 16+31.33
Δ = 25° 20′ 54″ (RT)
D = 5° 43′ 46″
R = 1,000.00′
T = 224.89′
L = 442.41′
E = 24.97′
e = 6.00%
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 14+06.44
P.T. STA = 18+48.85
SE REMOVED STA 18+50.00
TO STA 19+30.85 (3.96% TO 1.50%)

PROP. KELLER DR. RAMP B CURVE C130
PI STA = 26+17.30
Δ = 8° 25′ 37″ (RT)
D = 1° 16′ 54″
R = 4,470.56′
T = 329.36′
L = 657.53′
E = 12.12′
e = 4.50%
T.R. = N/A
S.E. RUN = 120.00′
P.C. STA = 22+87.95
P.T. STA = 29+45.47
SE ATTAINED STA 22+27.95
TO STA 23+47.95 (1.50% TO 4.50%)
SE REMOVED STA 26+15.38
TO STA 29+45.47 (4.50% TO 2.90%)

PROP. KELLER DR. RAMP C CURVE C63
PI STA = 19+80.94
Δ = 52° 39′ 51″ (RT)
D = 7° 32′ 20″
R = 760.00′
T = 376.15′
L = 698.57′
E = 87.99′
e = 8.00%
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 16+04.79
P.T. STA = 23+03.36
SE ATTAINED STA 14+64.79
TO STA 16+74.79 (2.90% TO 8.00%)
SE REMOVED STA 21+77.36
TO STA 23+03.36 (8.00% TO 4.06%)

PROP. KELLER DR. RAMP D CURVE C212
PI STA = 13+43.57
Δ = 42° 41′ 54″ (LT)
D = 12° 43′ 57″
R = 450.00′
T = 175.89′
L = 335.35′
E = 33.15′
P.C. STA = 11+67.68
P.T. STA = 15+03.03

PROP. KELLER DR. RAMP D CURVE C211
PI STA = 21+15.72
Δ = 16° 42′ 09″ (RT)
D = 7° 32′ 20″
R = 760.00′
T = 111.57′
L = 221.55′
E = 8.15′
e = 8.00%
T.R. = 48.00′
S.E. RUN = 255.00′
P.C. STA = 20+04.15
P.T. STA = 22+25.70
SE ATTAINED STA 17+01.15
TO STA 20+04.15 (1.50% TO 8.00%)
SE REMOVED STA 20+95.70
TO STA 24+32.55 (8.00% TO 1.87%)

PROP. KELLER DR. RAMP D CURVE C210
PI STA = 26+03.39
Δ = 4° 14′ 44″ (LT)
D = 3° 26′ 28″
R = 1,665.00′
T = 61.72′
L = 123.38′
E = 1.14′
P.C. STA = 25+41.68
P.T. STA = 26+65.05

EXIST. & PROP. FAI-57/70 CURVE C123
PI STA = 2221+23.36
Δ = 64° 49′ 07″ (RT)
D = 0° 49′ 59″
R = 6,877.35′
T = 4,366.06′
L = 7,780.33′
E = 1,268.84′
e = 2.90%
T.R. = 112.50′/90.00′
S.E. RUN = 217.50′/174.00′
P.C. STA = 2177+57.30
P.T. STA = 2255+37.63
SE ATTAINED STA 2174+62.30
TO STA 2178+29.80 (2.00% TO 2.90%)
SE REMOVED STA 2254+79.63
TO STA 2257+73.63 (2.90% TO 2.00%)

EXIST. CURVE SBENT1
PI STA = 600+44.35
Δ = 75° 32′ 53″ (RT)
D = 57° 17′ 45″
R = 100.00′
T = 77.50′
L = 131.86′
E = 26.51′
P.C. STA = 599+66.85
P.C.C. STA = 600+98.71

EXIST. CURVE SBENT2
PI STA = 601+30.47
Δ = 13° 10′ 43″ (RT)
D = 20° 50′ 05″
R = 275.00′
T = 31.77′
L = 63.25′
E = 1.83′
P.C.C. STA = 600+98.71
P.T. STA = 601+61.96

EXIST. CURVE SBENT3
PI STA = 604+12.53
Δ = 102° 07′ 41″ (RT)
D = 28° 38′ 52″
R = 200.00′
T = 247.54′
L = 356.49′
E = 118.24′
P.C. STA = 601+64.98
P.C.C. STA = 605+21.48

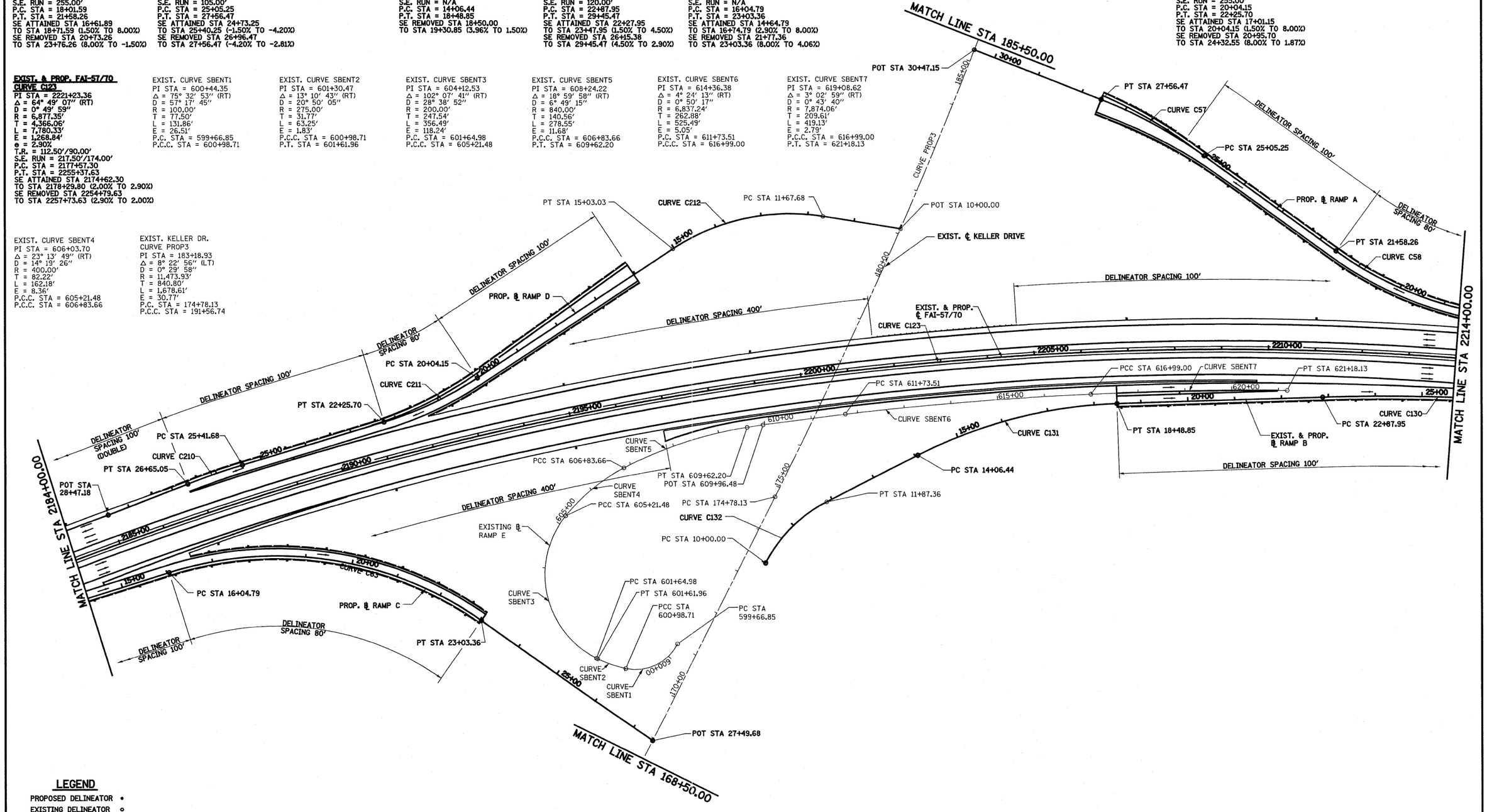
EXIST. CURVE SBENT5
PI STA = 608+24.22
Δ = 18° 59′ 58″ (RT)
D = 6° 49′ 15″
R = 840.00′
T = 140.56′
L = 278.55′
E = 11.68′
P.C.C. STA = 606+83.66
P.T. STA = 609+62.20

EXIST. CURVE SBENT6
PI STA = 614+36.38
Δ = 4° 24′ 13″ (RT)
D = 0° 50′ 17″
R = 6,837.24′
T = 262.88′
L = 525.49′
E = 5.05′
P.C. STA = 611+73.51
P.C.C. STA = 616+99.00

EXIST. CURVE SBENT7
PI STA = 619+08.62
Δ = 3° 02′ 59″ (RT)
D = 0° 43′ 40″
R = 7,874.06′
T = 209.61′
L = 419.13′
E = 2.79′
P.C.C. STA = 616+99.00
P.T. STA = 621+18.13

EXIST. CURVE SBENT4
PI STA = 606+03.70
Δ = 23° 13′ 49″ (RT)
D = 14° 19′ 26″
R = 400.00′
T = 82.22′
L = 162.18′
E = 8.36′
P.C.C. STA = 605+21.48
P.C.C. STA = 606+83.66

EXIST. KELLER DR. CURVE PROP3
PI STA = 183+18.93
Δ = 8° 22′ 56″ (LT)
D = 0° 29′ 58″
R = 11,473.93′
T = 840.80′
L = 1,678.61′
E = 30.77′
P.C. STA = 174+78.13
P.C.C. STA = 191+56.74



LEGEND

PROPOSED DELINEATOR •
EXISTING DELINEATOR o

NOTE: SINGLE REFLECTOR UNITS SHALL BE USED IN ALL LOCATIONS UNLESS OTHERWISE NOTED.

NOTE: FOR EXISTING ALIGNMENTS AND CONTROLS PRESENTED ON THIS SHEET SEE HORIZONTAL CONTROL SHEET.

0 100′ 200′

FILE NAME = S:\Projects\403-00072_ST-70\dgn\ML_Keller\delineator detdl.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 200.0000 ′ / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 5-07-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DELINEATOR DETAIL, FAI ROUTES 57/70

SCALE: 1″=100′ | SHEET NO. 4 OF 7 SHEETS | STA 2184+00.00 TO STA 2214+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	345
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. & PROP. FAI-57/70
CURVE C123
PI STA = 2221+23.36
Δ = 64° 49′ 07″ (RT)
D = 0° 49′ 59″
R = 6,877.35′
T = 4,366.06′
L = 7,780.33′
E = 1,268.84′
e = 2.90%
T.R. = 112.50′/90.00′
S.E. RUN = 217.50′/174.00′
P.C. STA = 2177+57.30
P.T. STA = 2255+37.63
SE ATTAINED STA 2174+62.30
TO STA 2178+29.80 (2.00% TO 2.90%)
SE REMOVED STA 2254+79.63
TO STA 2257+73.63 (2.90% TO 2.00%)

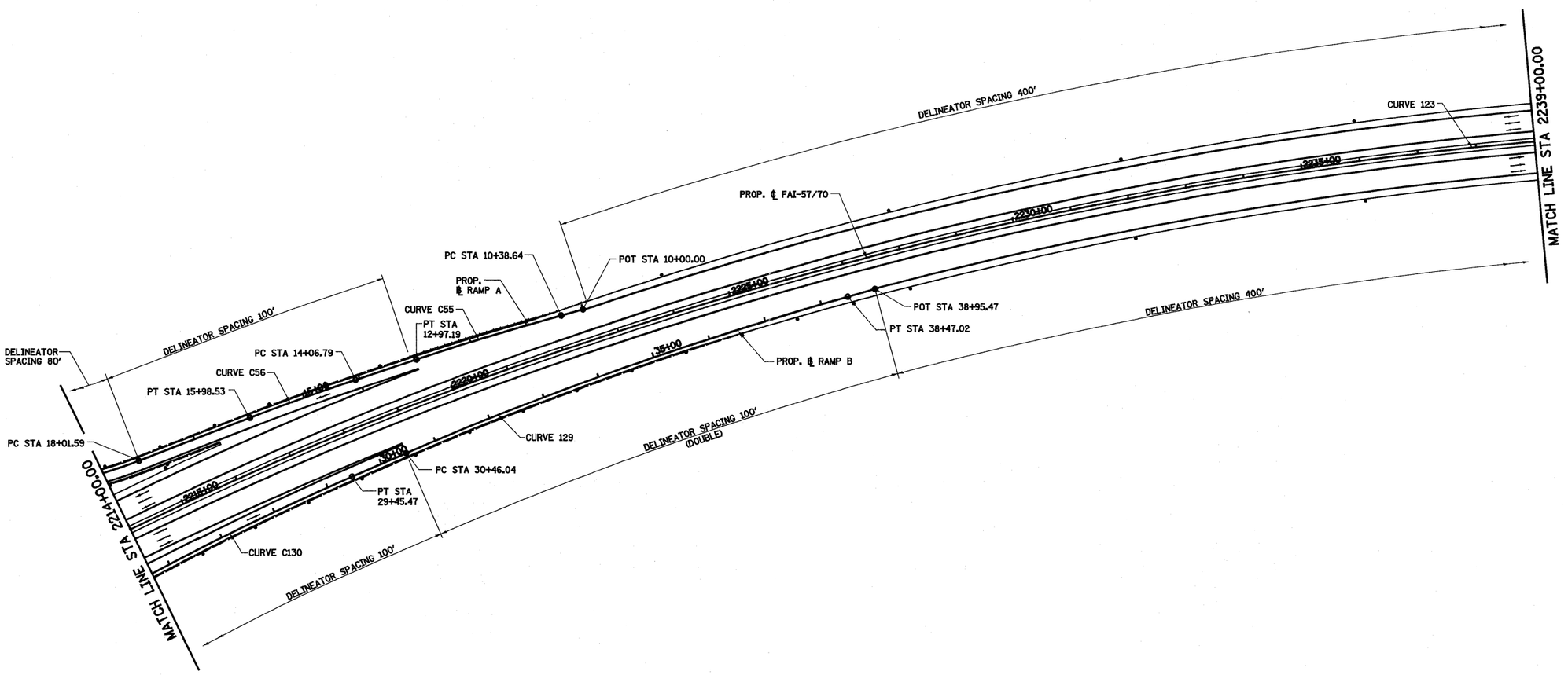
PROP. KELLER DR.
RAMP A CURVE C55
PI STA = 11+67.94
Δ = 2° 57′ 46″ (LT)
D = 1° 08′ 45″
R = 5,000.00′
T = 129.30′
L = 258.55′
E = 1.67′
P.C. STA = 10+38.64
P.T. STA = 12+97.19

PROP. KELLER DR.
RAMP A CURVE C56
PI STA = 15+02.68
Δ = 2° 26′ 29″ (LT)
D = 1° 16′ 24″
R = 4,500.00′
T = 95.88′
L = 191.74′
E = 1.02′
P.C. STA = 14+06.79
P.T. STA = 15+98.53

PROP. KELLER DR.
RAMP A CURVE C58
PI STA = 19+83.27
Δ = 26° 53′ 22″ (RT)
D = 7° 32′ 20″
R = 760.00′
T = 181.68′
L = 356.68′
E = 21.42′
e = 8.00%
T.R. = 48.00′
S.E. RUN = 255.00′
P.C. STA = 18+01.59
P.T. STA = 21+58.26
SE ATTAINED STA 16+61.89
TO STA 18+71.59 (1.50% TO 8.00%)
SE REMOVED STA 20+73.26
TO STA 24+73.25 (8.00% TO -2.81%)

PROP. KELLER DR.
RAMP B CURVE C130
PI STA = 26+17.30
Δ = 8° 25′ 37″ (RT)
D = 1° 16′ 54″
R = 4,470.56′
T = 329.36′
L = 657.53′
E = 12.12′
e = 4.50%
T.R. = N/A
S.E. RUN = 120.00′
P.C. STA = 22+87.95
P.T. STA = 29+45.47
SE ATTAINED STA 22+27.95
TO STA 23+47.95 (1.50% TO 4.50%)
SE REMOVED STA 26+15.38
TO STA 29+45.47 (4.50% TO 2.90%)

PROP. KELLER DR.
RAMP B CURVE C129
PI STA = 34+47.11
Δ = 7° 34′ 12″ (RT)
D = 0° 56′ 42″
R = 6,062.53′
T = 401.07′
L = 800.98′
E = 13.25′
P.C. STA = 30+46.04
P.T. STA = 38+47.02



LEGEND

PROPOSED DELINEATOR •
EXISTING DELINEATOR o

NOTE: SINGLE REFLECTOR UNITS SHALL BE USED IN ALL LOCATIONS UNLESS OTHERWISE NOTED.

NOTE: FOR EXISTING ALIGNMENTS AND CONTROLS PRESENTED ON THIS SHEET SEE HORIZONTAL CONTROL SHEET.

0 100′ 200′

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\delineator detail.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 200.0000 ′ / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 5-07-08	REVISED -

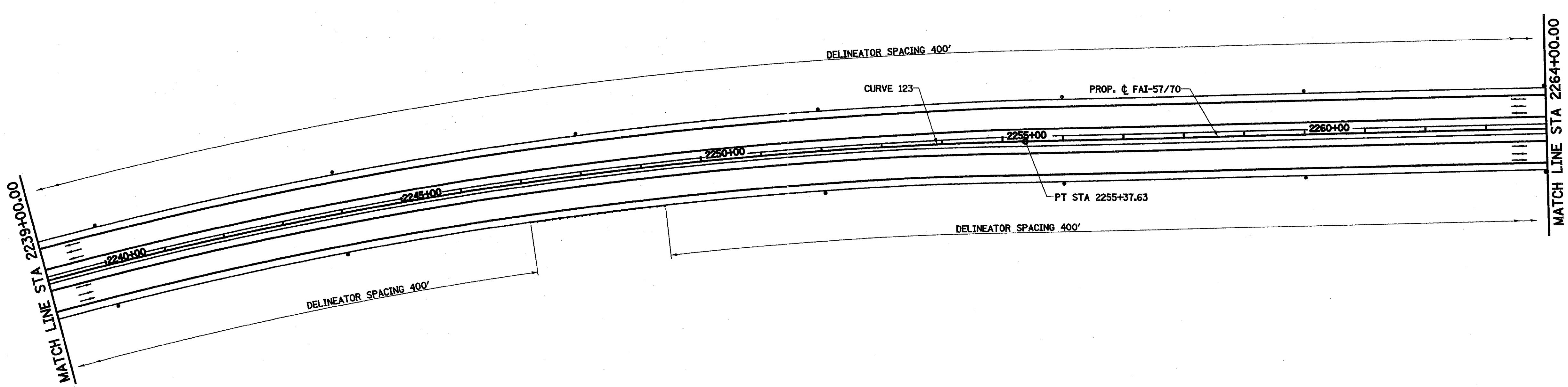
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DELINEATOR DETAIL, FAI ROUTES 57/70

SCALE: 1″=100′ | SHEET NO. 5 OF 7 SHEETS | STA 2214+00.00 TO STA 2239+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	346
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXIST. & PROP. FAI-57/70
CURVE C123
PI STA = 2221+23.36
Δ = 64° 49′ 07″ (RT)
D = 0° 49′ 59″
R = 6,877.35′
T = 4,366.06′
L = 7,780.33′
E = 1,268.84′
e = 2.90%
T.R. = 112.50′/90.00′
S.E. RUN = 217.50′/174.00′
P.C. STA = 2177+57.30
P.T. STA = 2255+37.63
SE ATTAINED STA 2174+62.30
TO STA 2178+29.80 (2.00% TO 2.90%)
SE REMOVED STA 2254+79.63
TO STA 2257+73.63 (2.90% TO 2.00%)



LEGEND

PROPOSED DELINEATOR •
EXISTING DELINEATOR ∘

NOTE: SINGLE REFLECTOR UNITS SHALL BE USED IN ALL LOCATIONS UNLESS OTHERWISE NOTED.

NOTE: FOR EXISTING ALIGNMENTS AND CONTROLS PRESENTED ON THIS SHEET SEE HORIZONTAL CONTROL SHEET.

0 100′ 200′

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		DRAWN - PDB	REVISED -
	PLOT SCALE = 200.0000 ′ / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 5-07-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

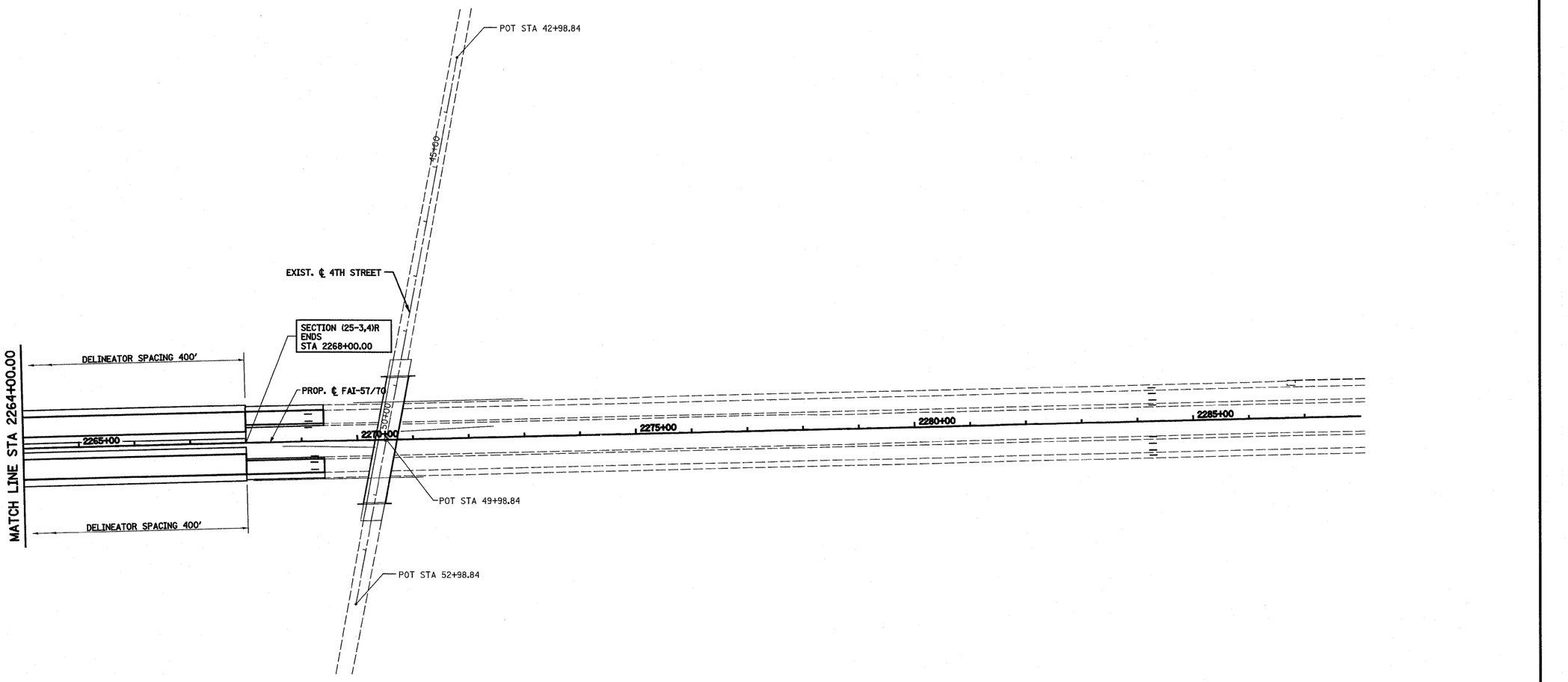
DELINEATOR DETAIL, FAI ROUTES 57/70

SCALE: 1″=100′ | SHEET NO. 6 OF 7 SHEETS | STA 2239+00.00 TO STA 2264+00.00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	347

CONTRACT NO. 74299

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



LEGEND

PROPOSED DELINEATOR •

EXISTING DELINEATOR o

NOTE: SINGLE REFLECTOR UNITS SHALL BE USED IN ALL LOCATIONS UNLESS OTHERWISE NOTED.

NOTE: FOR EXISTING ALIGNMENTS AND CONTROLS PRESENTED ON THIS SHEET SEE HORIZONTAL CONTROL SHEET.

0 100' 200'

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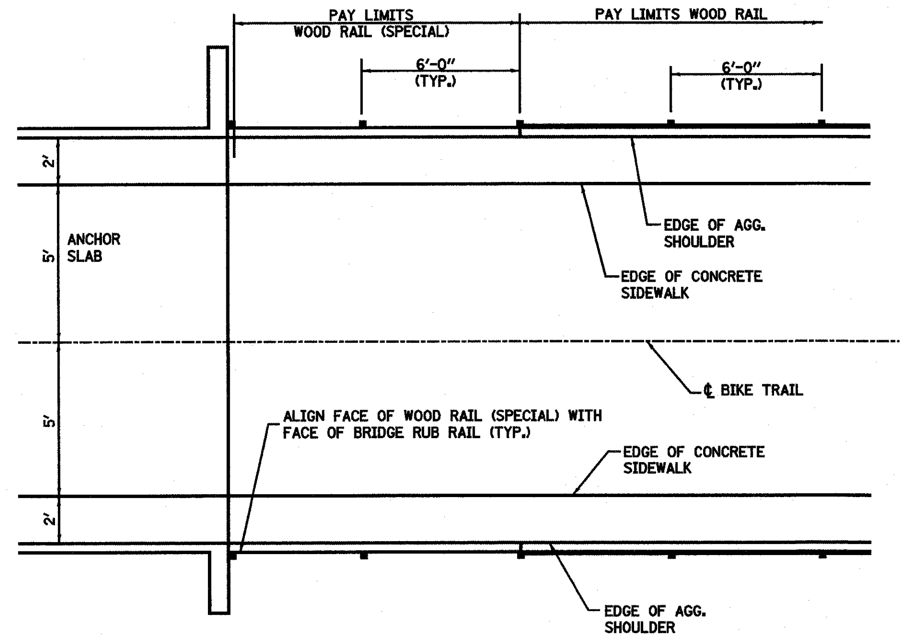
		DRAWN - PDB	REVISED -
	PLOT SCALE = 200.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/18/2011	DATE - 5-07-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

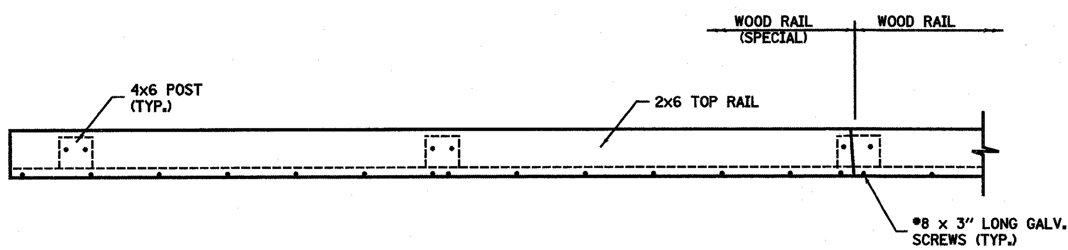
DELINEATOR DETAIL, FAI ROUTES 57/70

SCALE: 1"=100' | SHEET NO. 7 OF 7 SHEETS | STA 2264+00.00 TO STA 2288+50.00

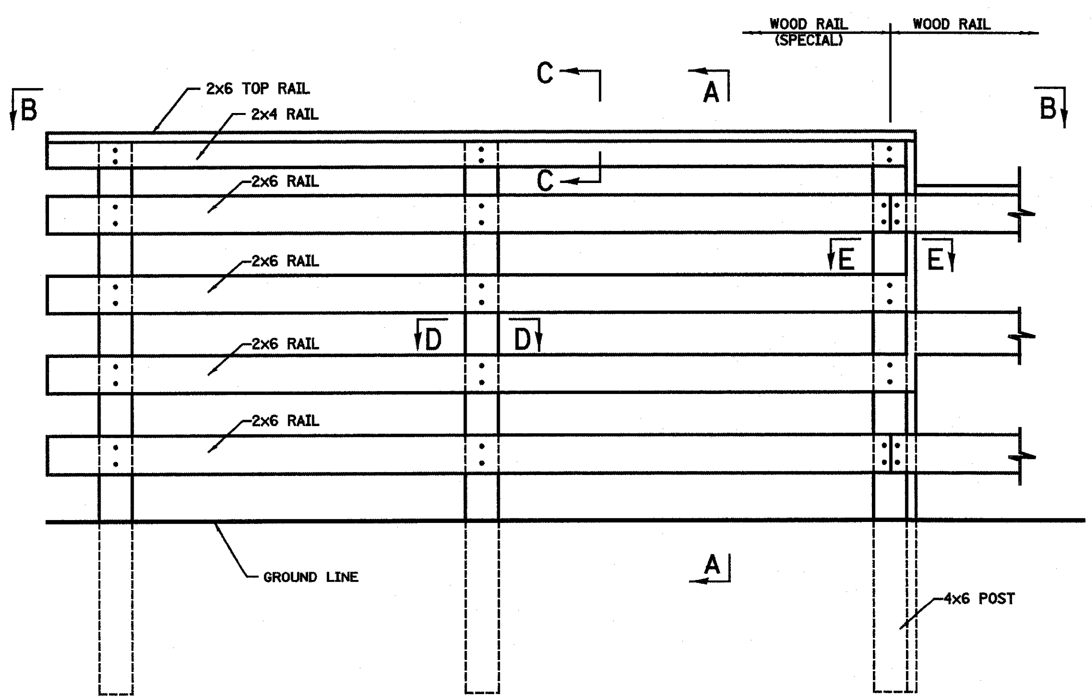
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	348
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



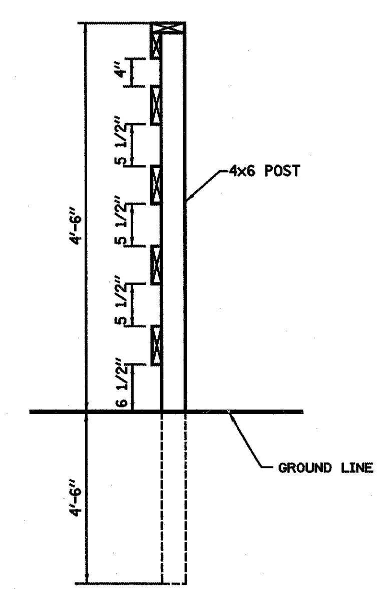
PLAN



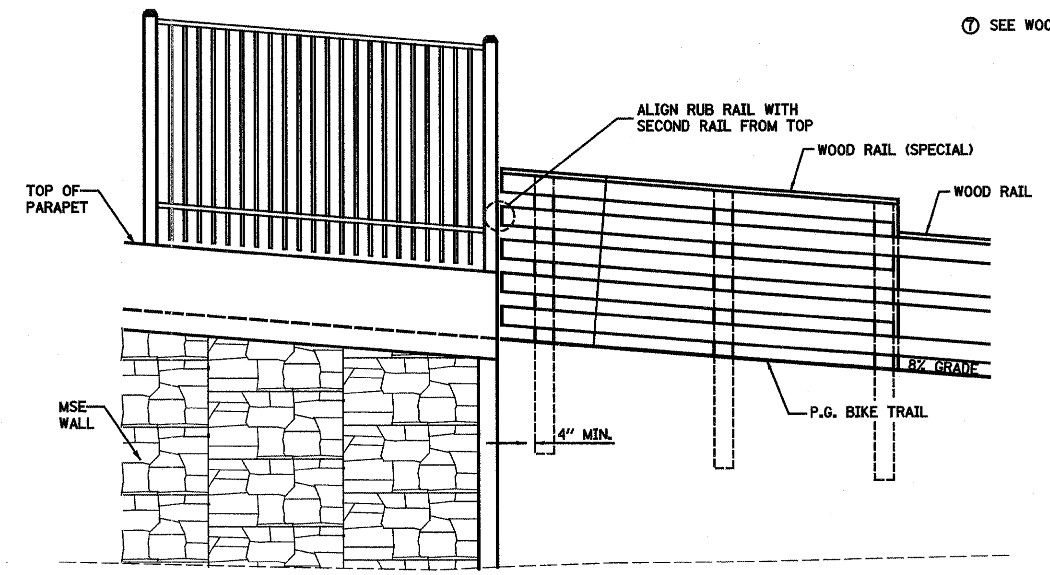
SECTION B-B



INSIDE RAIL ELEVATION



SECTION A-A



WOOD RAIL (SPECIAL) ELEVATION

NOTES

① DECK SCREWS SHALL BE STEEL, HOT DIPPED GALVANIZED AND SHALL HAVE FLAT HEADS WITH A SQUARE DRIVE. PREDRILL HOLES TO RECEIVE DECK SCREWS.

② THE COST FOR ALL HARDWARE COMPLETE WITH MATERIAL AND INSTALLATION SHALL BE INCLUDED IN THE BID UNIT PRICE FOR "WOOD RAIL (SPECIAL)".

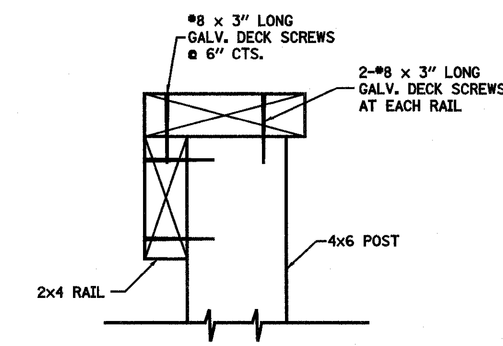
③ ALL LUMBER SIZES SHOWN ARE NOMINAL DIMENSIONS.

④ ALL LUMBER SHALL BE SURFACED FOUR SIDES.

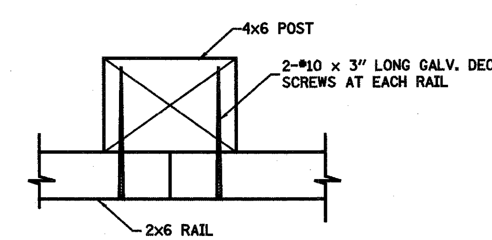
⑤ ALL TREATED TIMBER MEMBERS SHALL MEET THE REQUIREMENTS OF SECTION 1007.05 OF THE STANDARD SPECIFICATIONS (NO. 1) DENSE SR 1550 F FOR SOUTHERN PINE OR NO. 1 DENSE 1400 F FOR DOUGLAS FIR) AND HAVE A PRESERVATIVE TREATMENT IN ACCORDANCE WITH SECTION 1007.12(a)(3) OF THE STANDARD SPECIFICATIONS. RAILS SHALL HAVE A MINIMUM RETENTION OF 0.25 POUNDS PER CUBIC FOOT AND POSTS SHALL HAVE A MINIMUM RETENTION OF 0.40 POUNDS PER CUBIC FOOT. EACH MEMBER SHALL CARRY A GRADE STAMP AND QUALITY ASSURANCE STAMP INDICATING CLASS OF TIMBER AND CHEMICAL RETENTION.

⑥ WOOD POSTS SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 730.04 OF THE STANDARD SPECIFICATIONS.

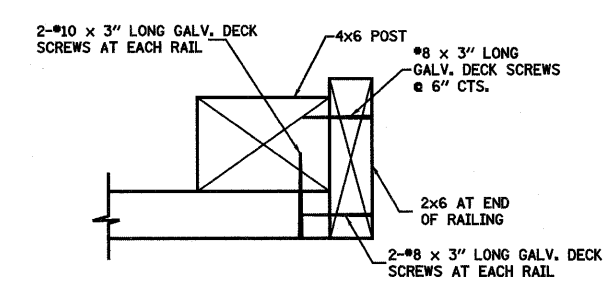
⑦ SEE WOOD RAIL DETAILS FOR RAIL TRANSITION AND CONTINUATION OF RAILING.



SECTION C-C



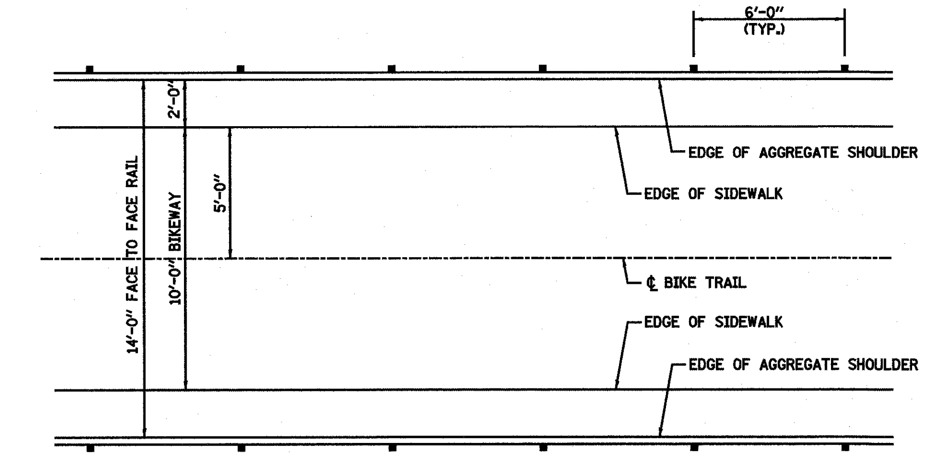
SECTION D-D



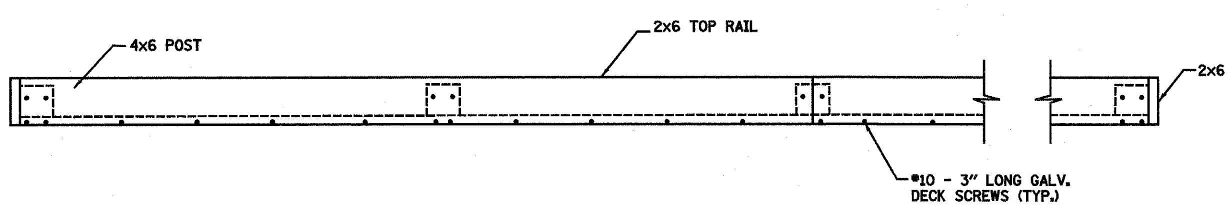
SECTION E-E

FILE NAME = S:\Projects\443-88872_57-70\dgn\WL_Railin\fence details.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WOOD RAIL (SPECIAL) DETAILS, BIKE TRAIL
		DRAWN - MAB	REVISED -		
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - BRM	REVISED -		
	PLOT DATE = 3/18/2011	DATE - 10-13-09	REVISED -		SCALE: 1"=10' | SHEET NO. 1 OF 4 SHEETS | STA. TO STA.

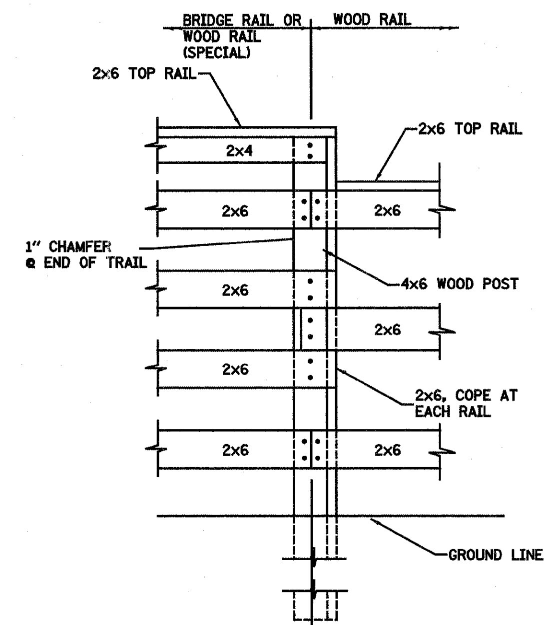
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	349
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN



SECTION B-B



RAIL TRANSITION DETAIL

(4x6 POST, 2x6 VERT. AND ALL HARDWARE FOR TRANSITION SHALL BE INCLUDED IN THE COST FOR "WOOD RAIL"

NOTES

① ALL BOLTS, NUTS, WASHERS AND SCREWS SHALL BE STEEL, HOT DIPPED GALVANIZED IN ACCORDANCE WITH ARTICLE 1006.29(d) OF THE STANDARD SPECIFICATIONS. BOLT HOLES IN LUMBER SHALL BE AS SPECIFIED IN THE STANDARD SPECIFICATIONS.

② DECK SCREWS SHALL BE STEEL, HOT DIPPED GALVANIZED AND SHALL HAVE FLAT HEADS WITH A SQUARE DRIVE. PREDRILL HOLES TO RECEIVE DECK SCREWS.

③ THE COST FOR ALL HARDWARE INCLUDING BOLTS, WASHERS, NUTS AND SCREWS COMPLETE WITH MATERIAL AND INSTALLATION SHALL BE INCLUDED IN THE BID UNIT PRICE FOR "WOOD RAIL".

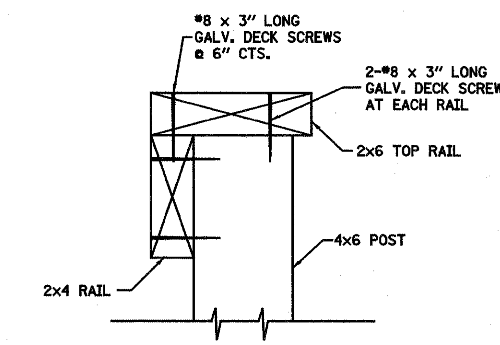
④ ALL LUMBER SIZES SHOWN ARE NOMINAL DIMENSIONS.

⑤ ALL LUMBER SHALL BE SURFACED FOUR SIDES.

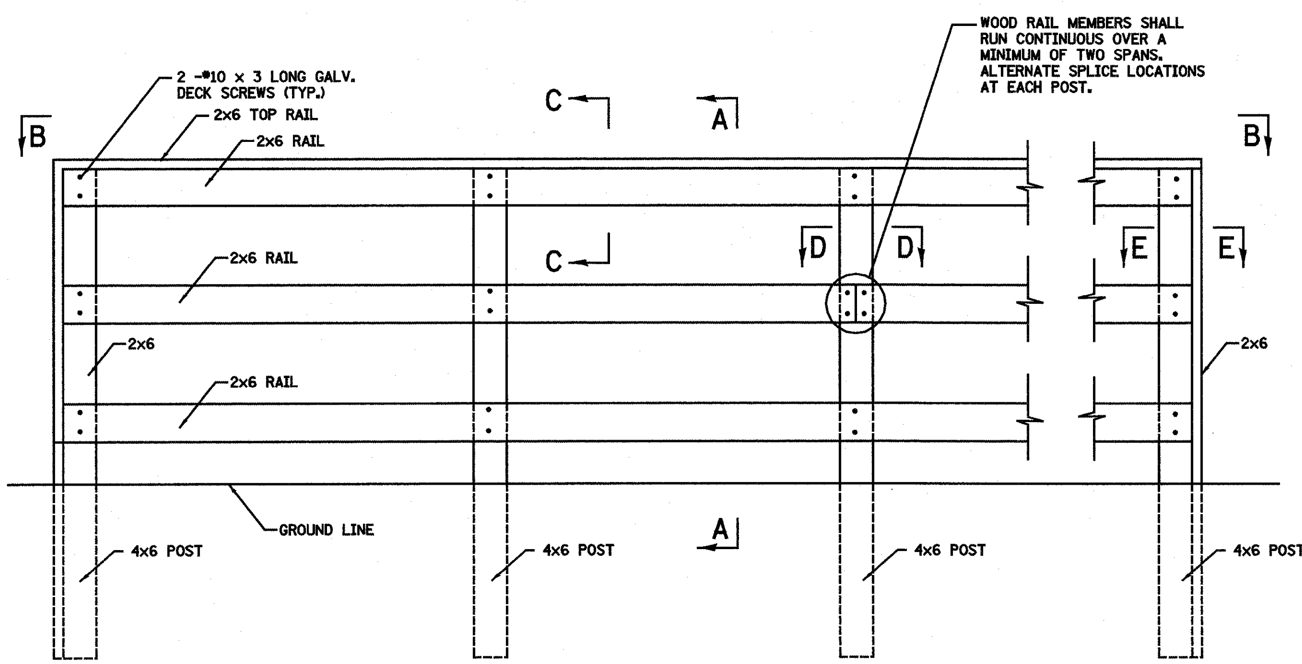
⑥ ALL TREATED TIMBER MEMBERS SHALL MEET THE REQUIREMENTS OF SECTION 1007.05 OF THE STANDARD SPECIFICATIONS (NO. 1 DENSE SR 1550 F FOR SOUTHERN PINE OR NO. 1 DENSE 1400 F FOR DOUGLAS FIR) AND HAVE A PRESERVATIVE TREATMENT IN ACCORDANCE WITH SECTION 1007.12(A)(3) OF THE STANDARD SPECIFICATIONS. RAILS SHALL HAVE A MINIMUM RETENTION OF 0.25 POUNDS PER CUBIC FOOT AND POSTS SHALL HAVE A MINIMUM RETENTION OF 0.40 POUNDS PER CUBIC FOOT. EACH MEMBER SHALL CARRY A GRADE STAMP AND QUALITY ASSURANCE STAMP INDICATING CLASS OF TIMVER AND CHEMICAL RETENTION.

⑦ WOOD POSTS SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 730.04 OF THE STANDARD SPECIFICATIONS.

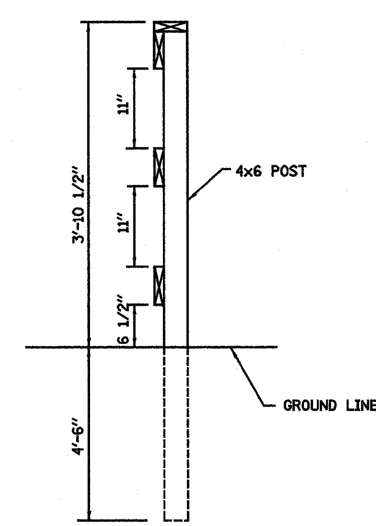
⑧ SEE PLAN AND PROFILE SHEETS FOR LOCATIONS AND BILLING OF WOOD RAIL.



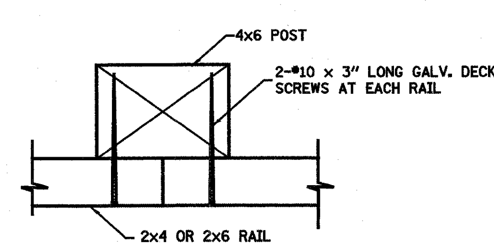
SECTION C-C



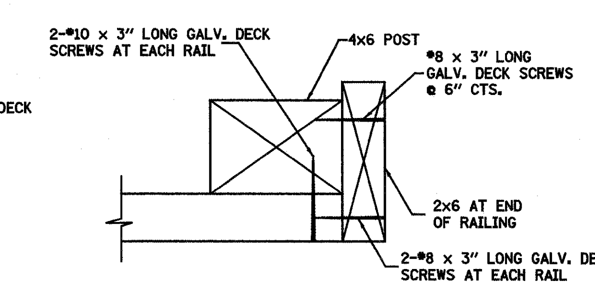
INSIDE RAIL ELEVATION



SECTION A-A

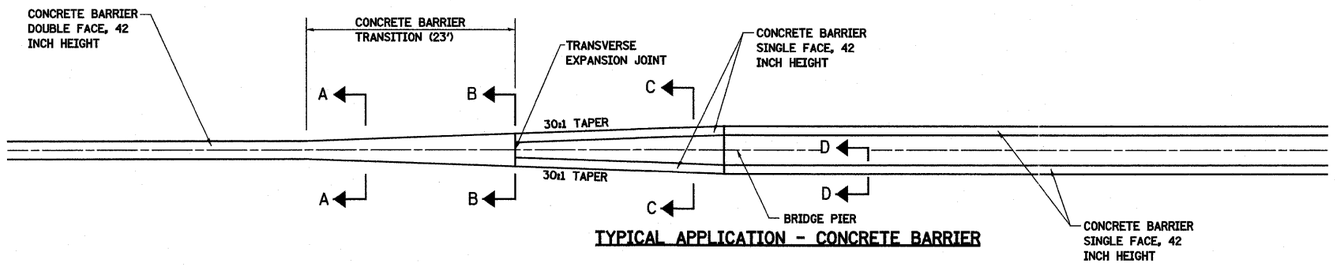


SECTION D-D

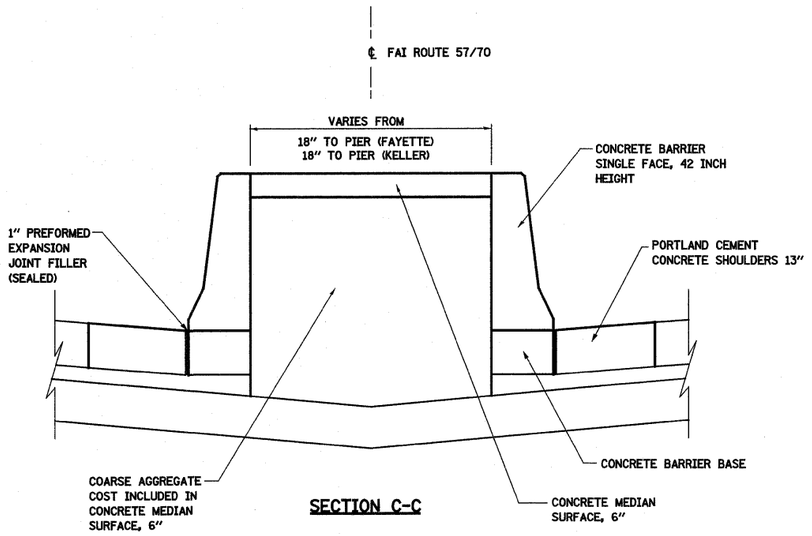


SECTION E-E

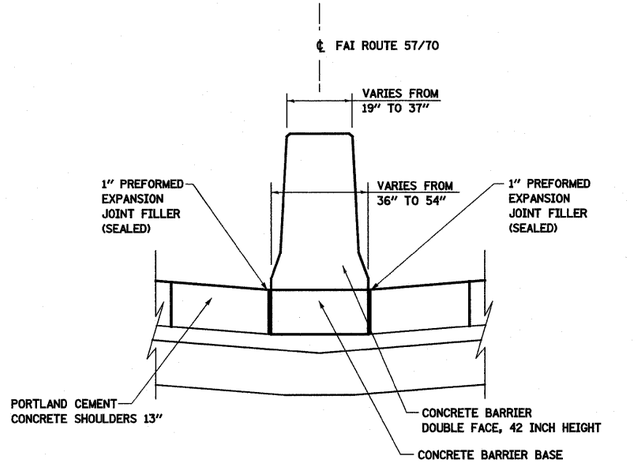
FILE NAME = S:\Projects\403-00072.57-70\dgn\M_Keller\wood rail details.dgn	USER NAME = bseibel	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WOOD RAIL DETAILS, BIKE TRAIL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MAB	REVISED -					57/70	(25-3,4)R	EFFINGHAM	1098	350
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - BRM	REVISED -							CONTRACT NO. 74299		
	PLOT DATE = 3/18/2011	DATE - 10-13-09	REVISED -		SCALE: 1"=10'	SHEET NO. 2 OF 4 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



TYPICAL APPLICATION - CONCRETE BARRIER

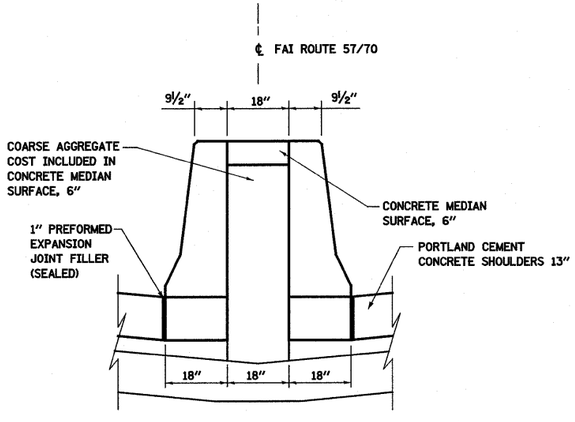


SECTION C-C

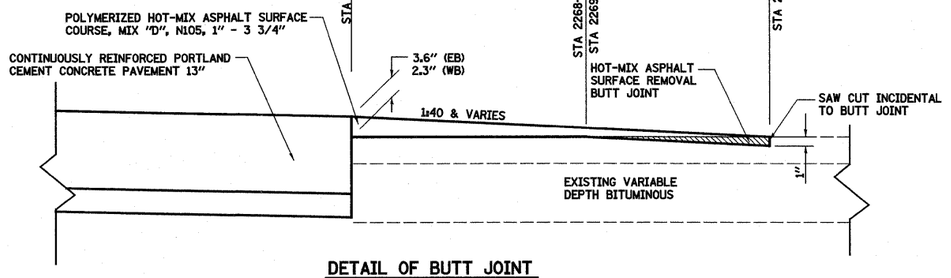


SECTION A-A

SECTION D-D

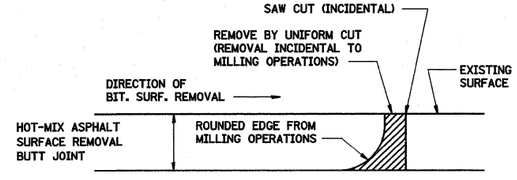


SECTION B-B



DETAIL OF BUTT JOINT

NOT TO SCALE



NOTE: WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

BITUMINOUS DETAIL AT BUTT JOINTS

NOT TO SCALE

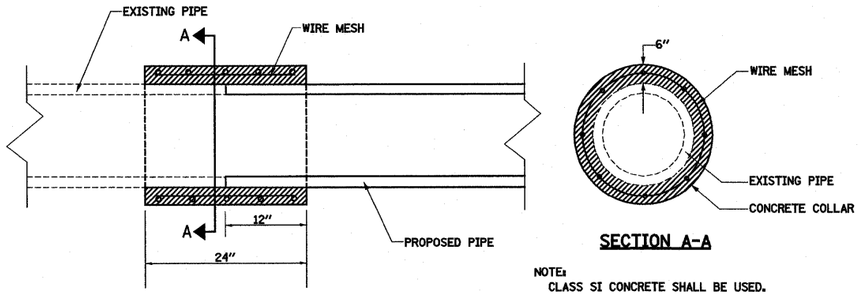
FILE NAME = S:\Projects\403-00072_ST-70\dgn\ML_Keller\Misc Details.dgn	USER NAME = John	DESIGNED - JWS	REVISED -
		DRAWN - PDB	REVISED -
	PLOT SCALE = 5.0000 ' / IN.	CHECKED - BRM	REVISED -
	PLOT DATE = 3/20/2011	DATE - 4-16-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS, FAI ROUTE 57/70

SCALE: 1"=2.5' | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

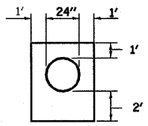
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	351
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



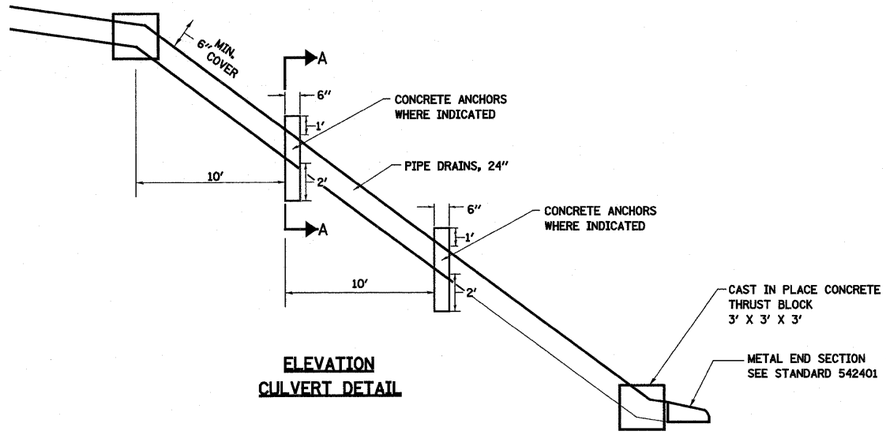
SECTION A-A

NOTE:
CLASS SI CONCRETE SHALL BE USED.

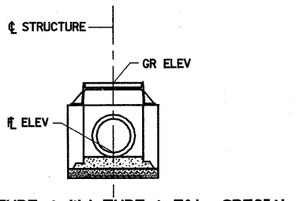
CONCRETE COLLAR DETAIL OPTION
NOT TO SCALE



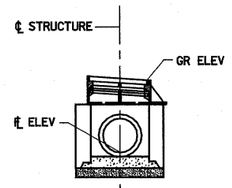
SECTION A-A
CONCRETE ANCHOR



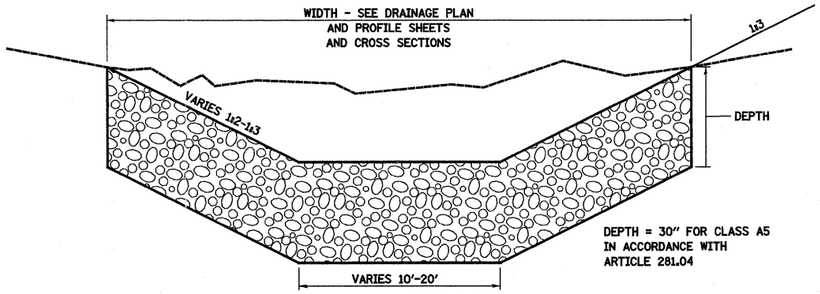
ELEVATION
CULVERT DETAIL



INLET TYPE A W/ TYPE 1 F&L, SPECIAL



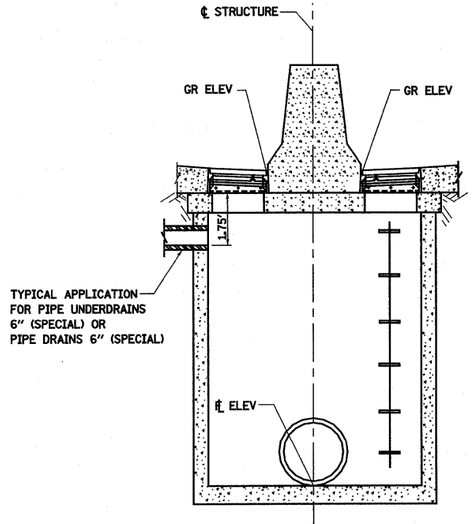
INLET TYPE A W/ TYPE 24 F&G



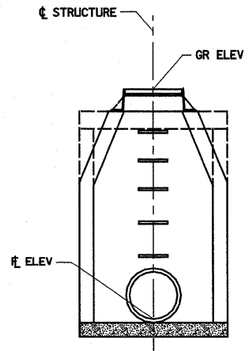
RIPRAP TYPICAL APPLICATION - CLASS A5

NOTE:

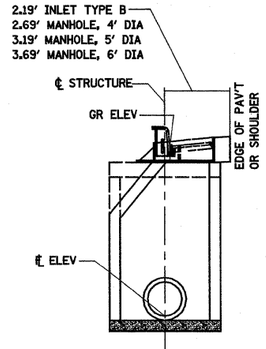
- THRUST BLOCKS WILL BE USED @ BENDS IN PIPE
- •• SLOPES & DISTANCES ARE SKEWED
- ••• CLASS SI CONCRETE SHALL BE UTILIZED FOR CONCRETE HEADWALL



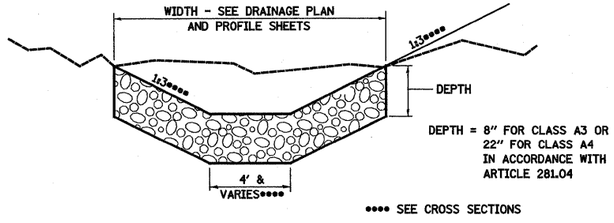
DRAINAGE STRUCTURE TYPE 5
W/ TWO TYPE 22 F&G



MANHOLES W/ TYPE 1 F&L



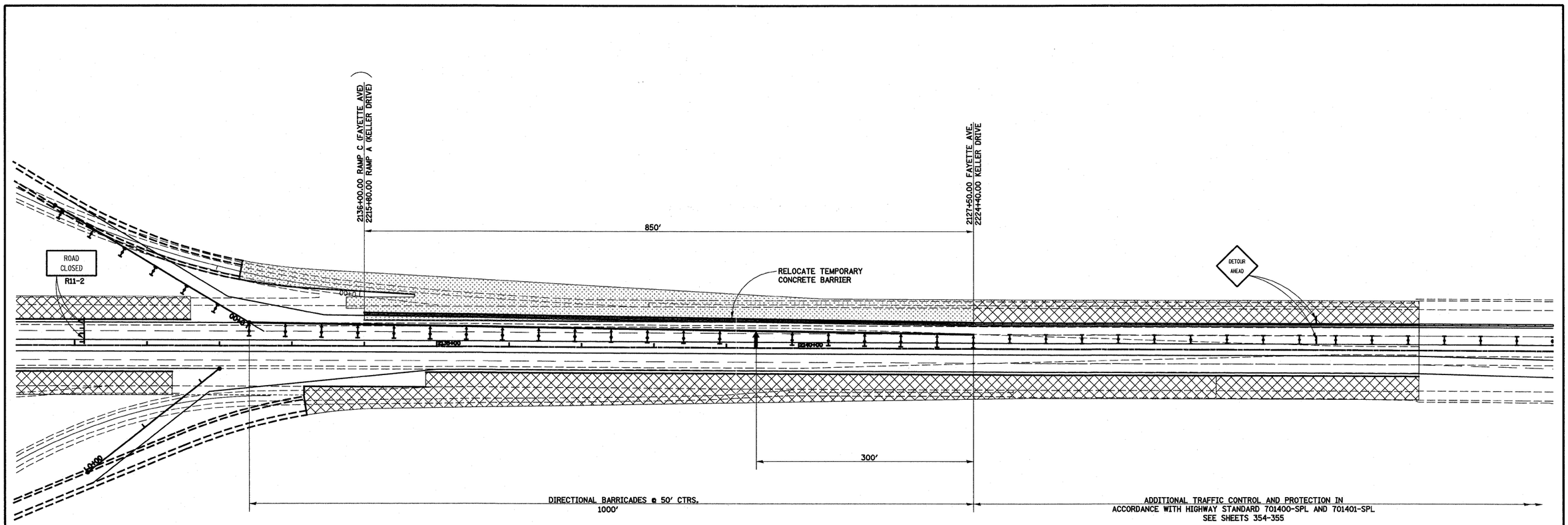
INLET TYPE B AND MANHOLES
W/ TYPE 3 F&G



•••• SEE CROSS SECTIONS

RIPRAP TYPICAL APPLICATION - CLASS A3 & A4

FILE NAME = S:\Projects\403-00072_57-70\dgn\ML_Keller\Misc Details.dgn	USER NAME = betsy	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS DETAILS, FAI ROUTE 57/70				F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - PDB	REVISED -						57/70	(25-3,4)R	EFFINGHAM	1098	352
	PLOT SCALE = 5.0000 ' / IN.	CHECKED - BRM	REVISED -								CONTRACT NO. 74299		
	PLOT DATE = 3/18/2011	DATE - 4-16-09	REVISED -		SCALE: 1"=2.5'	SHEET NO. 4 OF 4 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL APPLICATION
TRAFFIC CONTROL FOR ROAD CLOSURE

LOCATIONS - TRAFFIC CONTROL FOR ROAD CLOSURE
EAST BOUND FAYETTE RAMP C EXIT STA. 2137+00
WEST BOUND KELLER RAMP A EXIT STA. 2215+00

FOR CONNECTOR RAMP AND STAGE CONSTRUCTION DETAILS SEE MAINTENANCE OF TRAFFIC PLANS.

LEGEND

- TYPE III BARRICADE WITH 2 HIGH INTENSITY FLASHING LIGHTS
- DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURNING MONODIRECTIONAL LIGHTS
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHTS
- ARROW BOARD
- STAGE 2 WORK
- A PORTION OF THIS AREA MUST BE CONSTRUCTED PRIOR TO INITIATING THESE TRAFFIC CONTROL ADJUSTMENTS

NOTE:

THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY JOSH PORTER, (217) 342-8382, FOURTEEN (14) DAYS PRIOR TO ACTUAL FULL CLOSURE OF ANY MAINLINE, FAI-57/70, PAVEMENTS. THE NOTIFICATION TIME PERIOD WILL ALLOW FOR ANY RETIMING OF TRAFFIC SIGNALS ALONG THE DETOUR ROUTES.

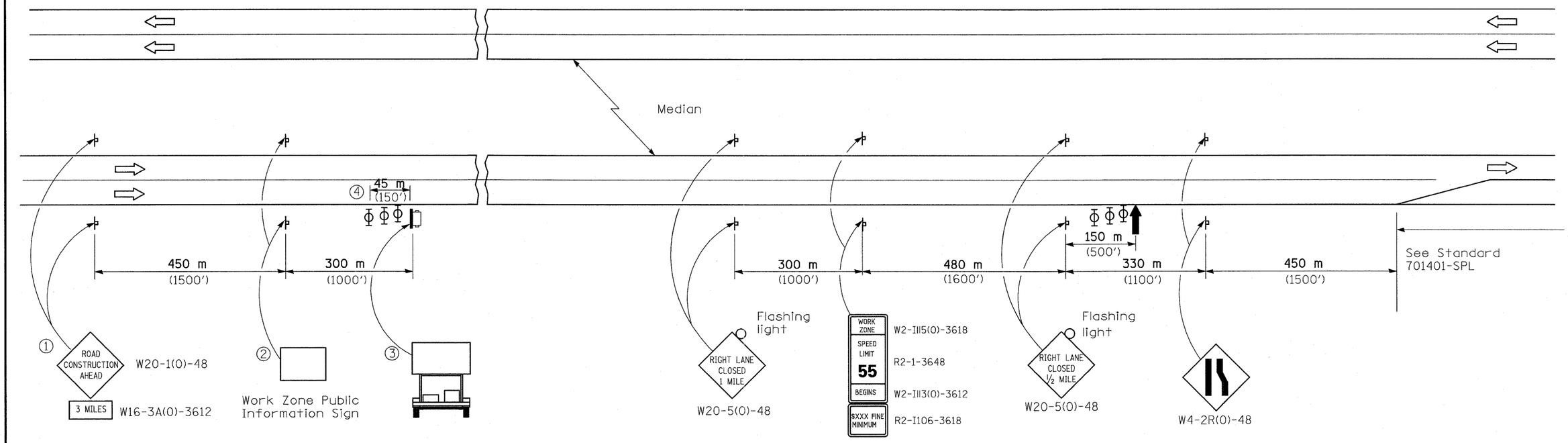
FILE NAME = $FILEL$	USER NAME = betsy	DESIGNED - BRM	REVISED - 4-27-2011
		DRAWN - LEC	REVISED - 10-20-2011
	PLOT SCALE = 200.0000 ' / IN.	CHECKED - JWS	REVISED -
	PLOT DATE = 11/22/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL FOR ROAD CLOSURE DETAIL

SCALE: | SHEET NO. 1 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	353
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			



SYMBOLS

- Arrow board
- Portable changeable message sign
- Sign
- Type II barricade, drum, or vertical barricade with monodirectional flashing light

① The Road Construction Ahead sign shall be located 3 miles in advance of the start of the detour.

② The message and size of the Work Zone Public Information Sign shall be as specified by the Department.

③ The message board shall be used to display status of lanes within the project. The primary messages shall be:
"Road Closed 3 Miles" / "Follow Marked Detour"

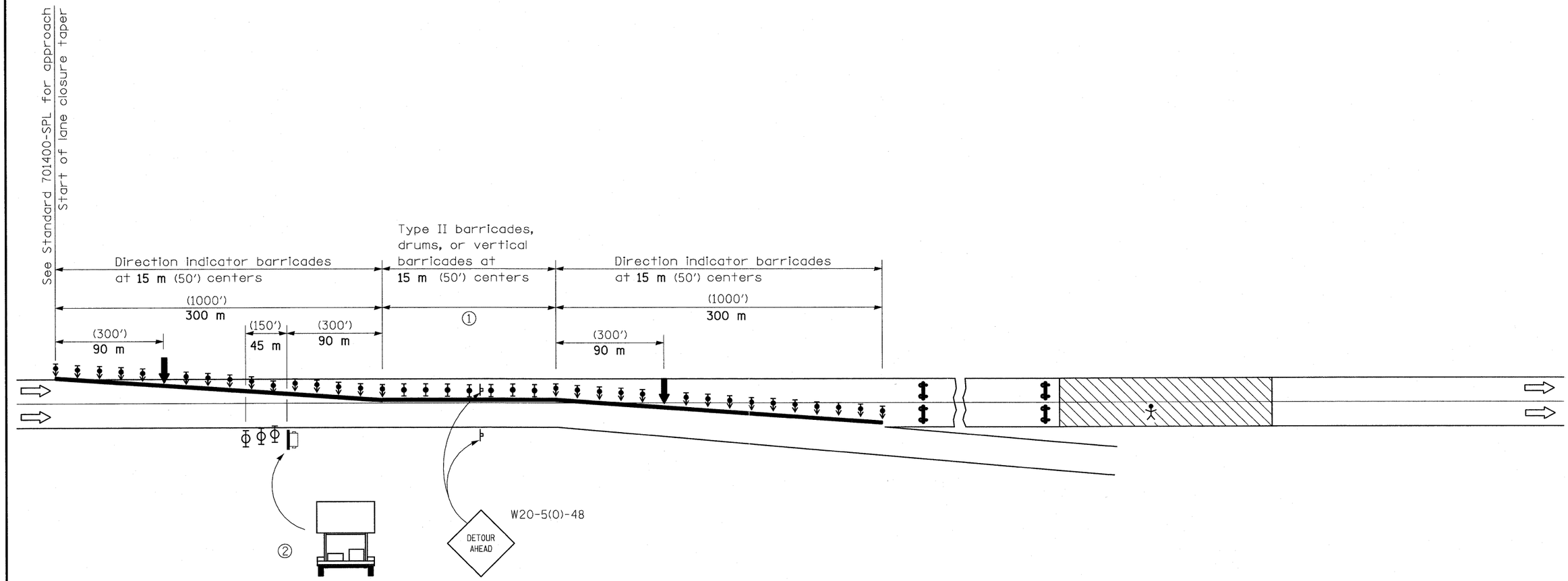
④ Three, Type II barricades, drums, or vertical barricades at 15 m (50') centers.

GENERAL NOTES

This standard shall be used in advance of the closure of a Freeway/Expressway. When the left lane is closed, LEFT LANE CLOSED signs shall be substitued for the RIGHT LANE CLOSED signs.

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

FILE NAME = $FILEL$	USER NAME = betsy	DESIGNED -	REVISED - 4-27-2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	APPROACH TO ROAD CLOSURE, FREEWAY /EXPRESSWAY DETAILS STANDARD 701400-SPL			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					57/70	(25-3,4)R	EFFINGHAM	1098	354
	PLOT SCALE = 100.0000 ' / IN.	CHECKED -	REVISED -							CONTRACT NO. 74299		
	PLOT DATE = 4/28/2011	DATE -	REVISED -		SCALE:	SHEET NO. 2 OF 5 SHEETS	STA. TO STA.			ILLINOIS FED. AID PROJECT		



SYMBOLS

- Arrow board
- Work area
- Worker
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Portable changeable message sign
- Type III barricade with flashing monodirectional lights

① The length of the min. tangent section shall be:

Duration of Closure	Lenth of Tangent Section
< 14 Days	300 m (1000')
≥ 14 Days	600 m (2000')

For off peak closures less than 24 hours, the tangent section may be omitted if approved by the Engineer.

② The message board shall be used to display status of lanes within the project. The primary messages shall be:
"All Trf Must Exit" / "Follow Marked Detour"

GENERAL NOTES

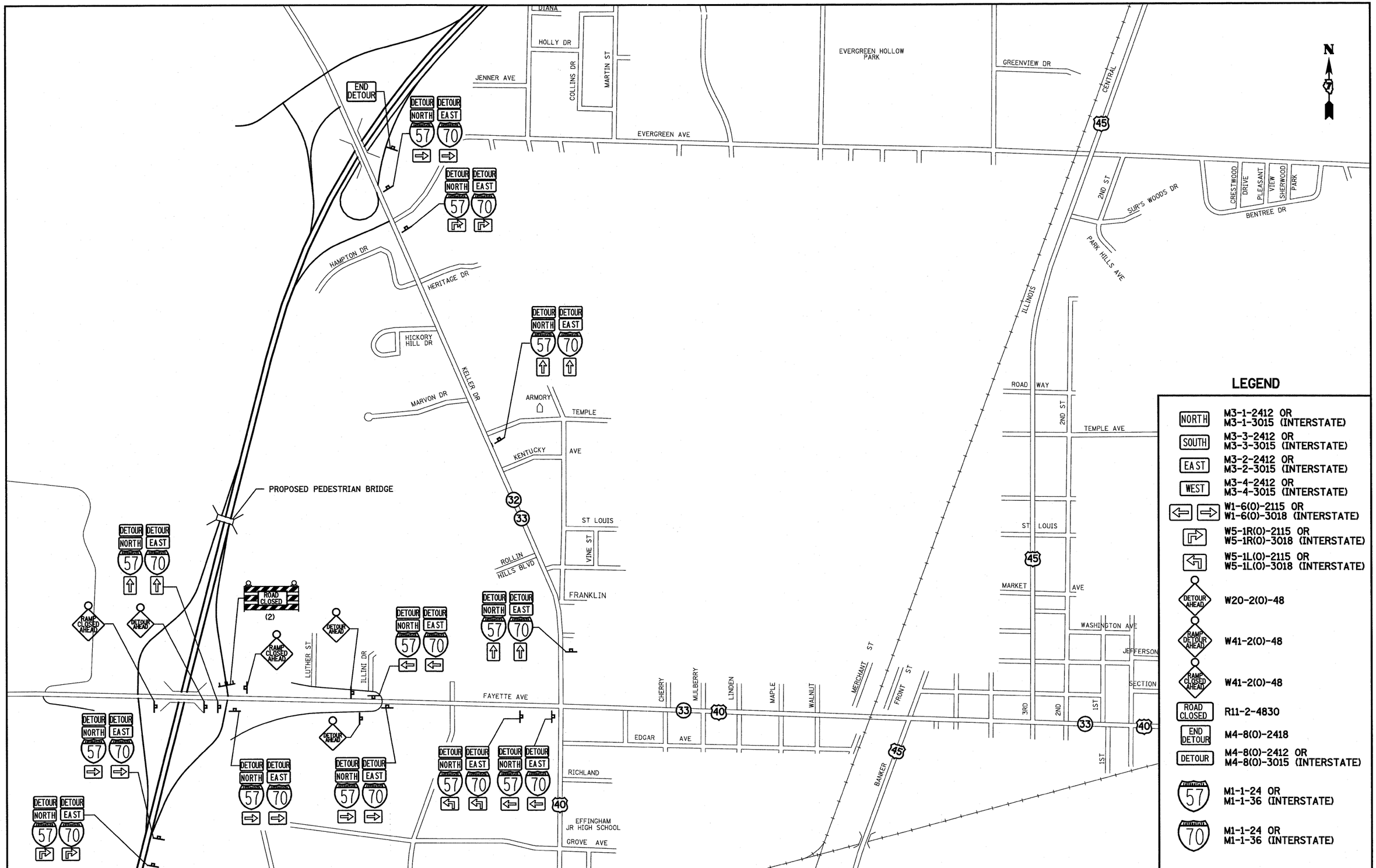
This Standard is to used for the closure of a Freeway/Expressway.

This Standard must always be used in combination with Standard 701400-SPL

This Standard also applies when the exit ramp is on the left side of traffic. Under these conditions, the set up would be a mirror image to what is shown.

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

FILE NAME = ⊕FILEL⊕	USER NAME = betsy	DESIGNED -	REVISED - 4-27-2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	APPROACH TO ROAD CLOSURE, FREEWAY /EXPRESSWAY DETAILS STANDARD 701401-SPL	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			57/70	(25-3,4)R	EFFINGHAM	1098	355
	PLOT SCALE = 100.0000 ' / IN.	CHECKED -	REVISED -					CONTRACT NO. 74299		
	PLOT DATE = 4/28/2011	DATE -	REVISED -		SCALE: SHEET NO. 3 OF 5 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



LEGEND

NORTH	M3-1-2412 OR M3-1-3015 (INTERSTATE)
SOUTH	M3-3-2412 OR M3-3-3015 (INTERSTATE)
EAST	M3-2-2412 OR M3-2-3015 (INTERSTATE)
WEST	M3-4-2412 OR M3-4-3015 (INTERSTATE)
	W1-6(0)-2115 OR W1-6(0)-3018 (INTERSTATE)
	W5-1R(0)-2115 OR W5-1R(0)-3018 (INTERSTATE)
	W5-1L(0)-2115 OR W5-1L(0)-3018 (INTERSTATE)
DETOUR AHEAD	W20-2(0)-48
RAMP DETOUR AHEAD	W41-2(0)-48
RAMP CLOSED AHEAD	W41-2(0)-48
ROAD CLOSED	R11-2-4830
END DETOUR	M4-8(0)-2418
DETOUR	M4-8(0)-2412 OR M4-8(0)-3015 (INTERSTATE)
57	M1-1-24 OR M1-1-36 (INTERSTATE)
70	M1-1-24 OR M1-1-36 (INTERSTATE)

FILE NAME = S:\Projects\483-88072_57-70\dgn\MI_Keller\detour signing details.dgn

USER NAME = linda
PLOT SCALE = 200.0000 ' / IN.
PLOT DATE = 11/22/2011

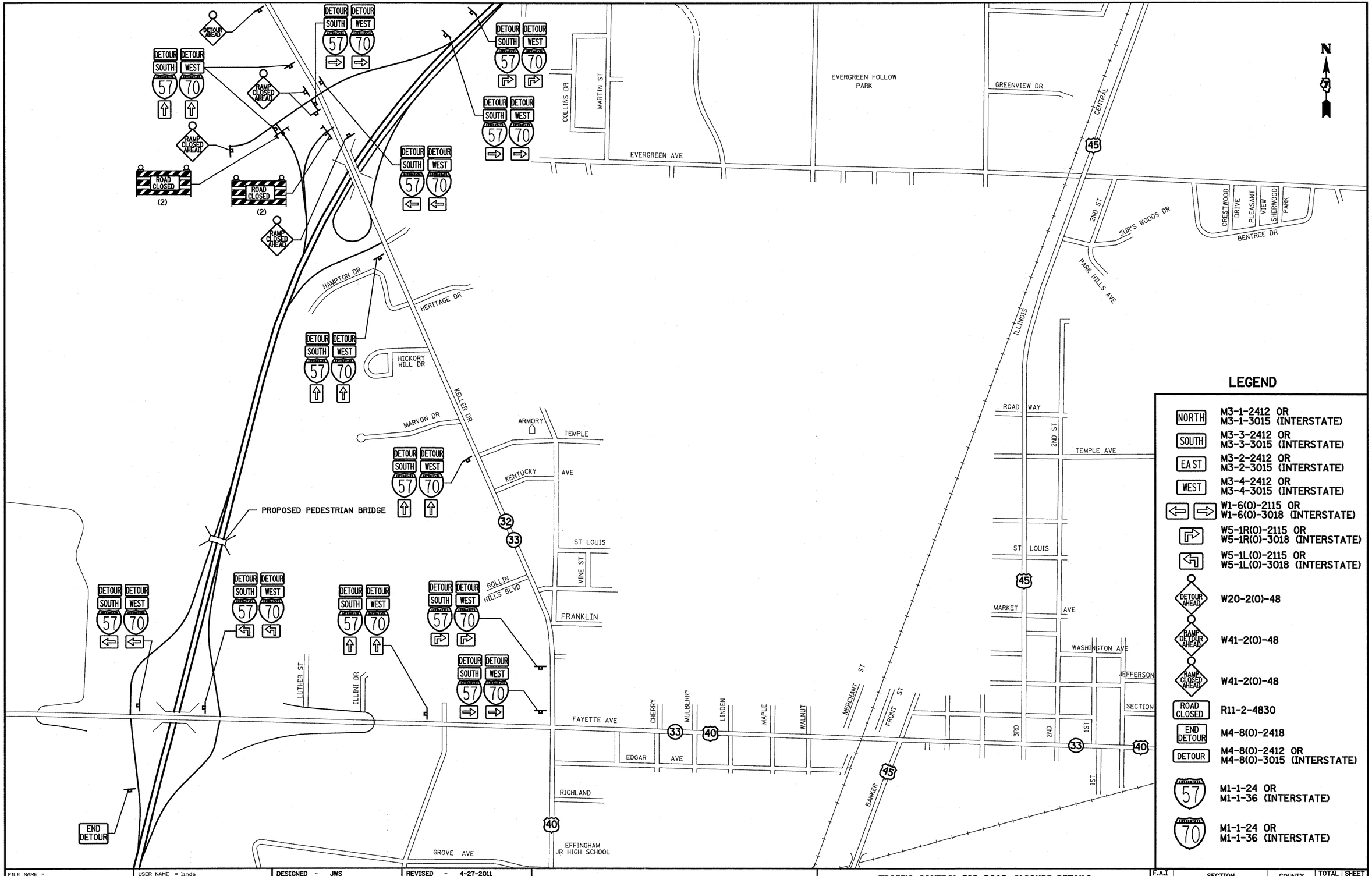
DESIGNED - JWS	REVISED -	4-27-2011
DRAWN - WJS	REVISED -	10-20-2011
CHECKED - BRM	REVISED -	
DATE - 3-14-11	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL FOR ROAD CLOSURE DETAILS
(I-57 NB / I-70 EB MARKED ROUTE DETOUR SIGNING)

SCALE: | SHEET NO. 4 OF 5 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	356
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

NORTH	M3-1-2412 OR M3-1-3015 (INTERSTATE)
SOUTH	M3-3-2412 OR M3-3-3015 (INTERSTATE)
EAST	M3-2-2412 OR M3-2-3015 (INTERSTATE)
WEST	M3-4-2412 OR M3-4-3015 (INTERSTATE)
⇦ ⇨	W1-6(0)-2115 OR W1-6(0)-3018 (INTERSTATE)
	W5-1R(0)-2115 OR W5-1R(0)-3018 (INTERSTATE)
	W5-1L(0)-2115 OR W5-1L(0)-3018 (INTERSTATE)
DETOUR AHEAD	W20-2(0)-48
RAMP DETOUR AHEAD	W41-2(0)-48
RAMP CLOSED AHEAD	W41-2(0)-48
ROAD CLOSED	R11-2-4830
END DETOUR	M4-8(0)-2418
DETOUR	M4-8(0)-2412 OR M4-8(0)-3015 (INTERSTATE)
57	M1-1-24 OR M1-1-36 (INTERSTATE)
70	M1-1-24 OR M1-1-36 (INTERSTATE)

FILE NAME = S:\Projects\1483-00072_57-70\dgn\ML_Keller\detour signing details.dgn	USER NAME = linda	DESIGNED - JWS	REVISED - 4-27-2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL FOR ROAD CLOSURE DETAILS (I-57 SB / I-70 WB MARKED ROUTE DETOUR SIGNING)
		DRAWN - WJS	REVISED - 10-20-2011		
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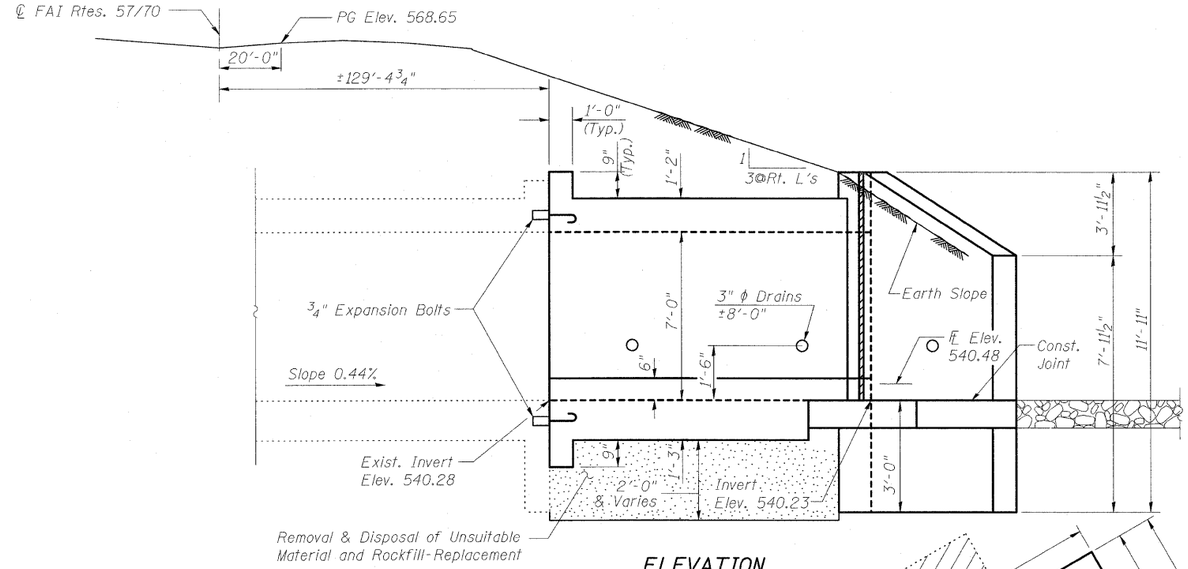
	PLOT DATE = 11/22/2011	DATE - 3-14-11	REVISED -		

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	357
		CONTRACT NO. 74299		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

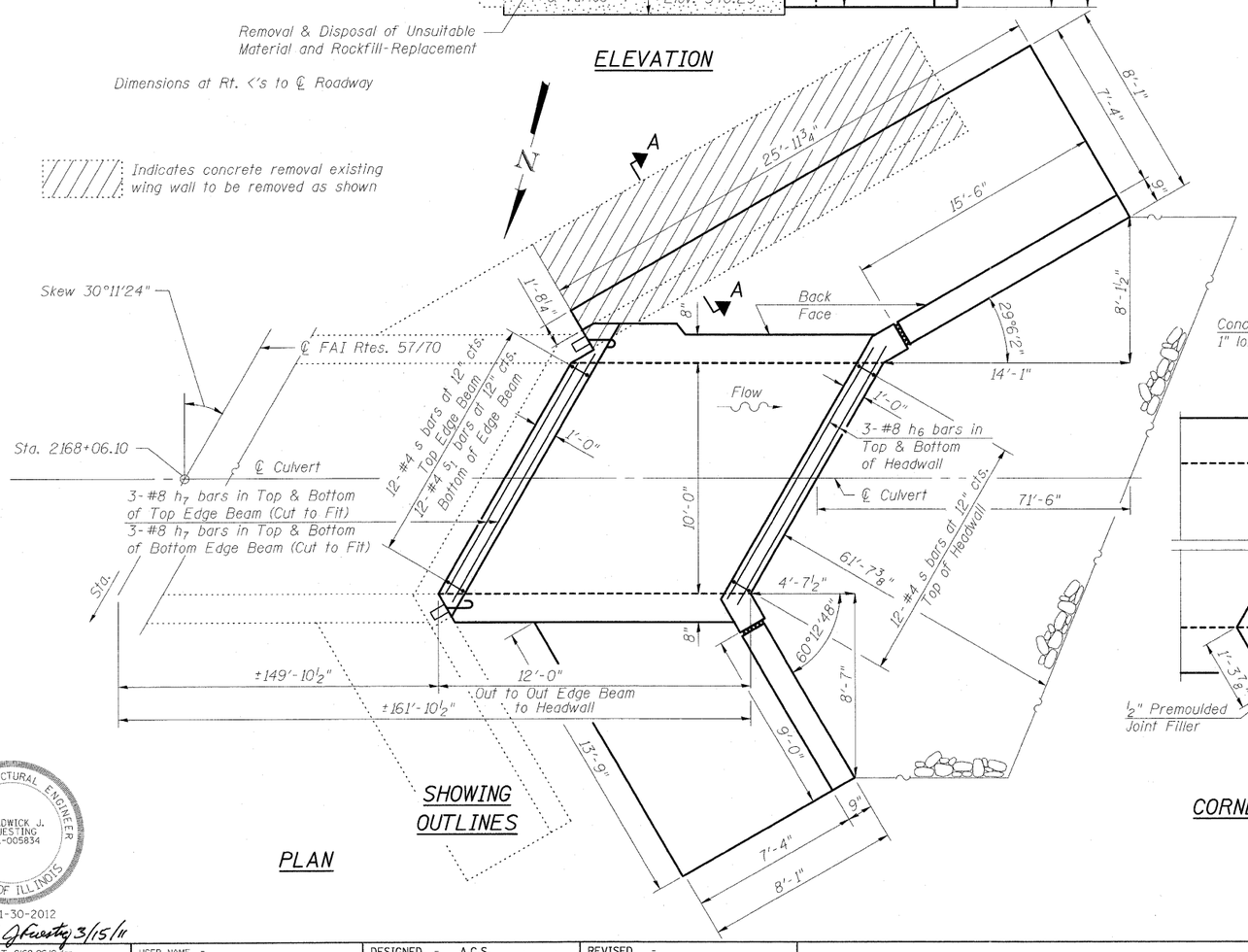
* Sheet 358 is Deleted *



ELEVATION

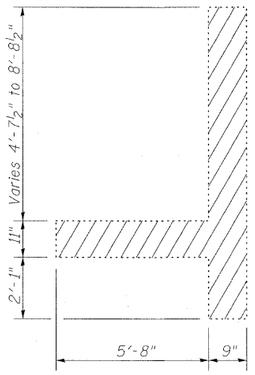
Dimensions at Rt. <'s to ℄ Roadway

Indicates concrete removal existing wing wall to be removed as shown

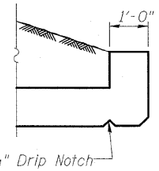


SHOWING OUTLINES

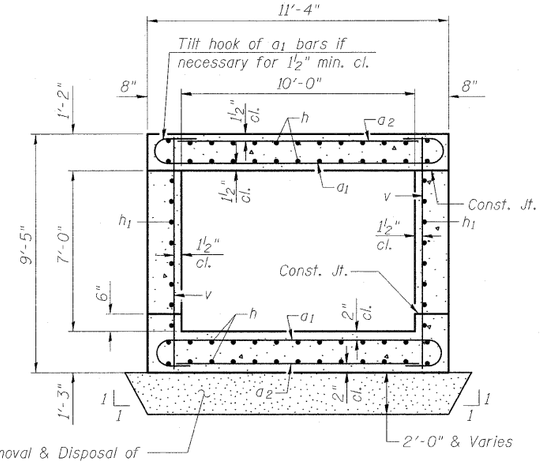
PLAN



SECTION A-A

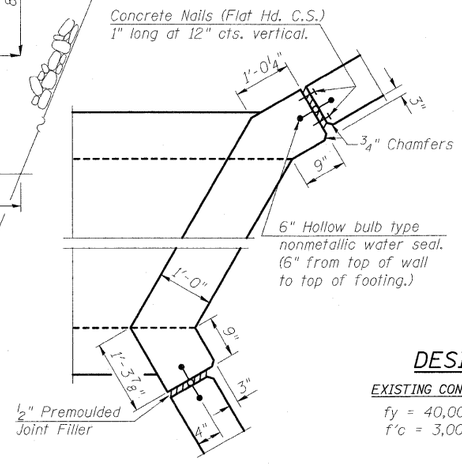


SECTION THRU HEADWALL



SECTION THRU BARREL

Calculated Max. Soil Pressure Under Barrel = 2920 psf



CORNER DETAIL

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Removal of the existing wings during construction shall be completed according to Section 501.05 of the Standard Specifications.

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of work, however, the Contractor will be paid for the quantity furnished at the unit price for the work.

Expansion bolts shall be according to Standard Specification Article 1006.09.

The depth of Removal and Replacement of Unsuitable Materials and Rockfill-Replacement as shown on the plans is estimated.

The verification of allowable soil bearing pressure underlying the proposed box culvert and wingwall footings shall be verified by a dynamic cone penetration (DCP) test or other acceptable measures as provided by the District Geotechnical and Field Engineers.

The results of the test must exceed the calculated bearing pressures shown on the plans prior to placement of the Concrete Box Culvert or Rockfill-Replacement. Tests failing to exceed the calculated bearing pressures as shown on the plans will require subsurface modification that must be coordinated with the District Geotechnical and Field Engineers.

For riprap placement and quantity, see roadway plans.

Existing wing wall shall be removed to existing wing wall joint as shown.

DESIGN STRESSES

EXISTING CONSTRUCTION	NEW CONSTRUCTION
fy = 40,000 psi	fy = 60,000 psi
f'c = 3,000 psi	f'c = 3,500 psi

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS 20-44 & ALT.

LICENSED STRUCTURAL ENGINEER — CHADWICK J. FUESTING 081-005834 — STATE OF ILLINOIS

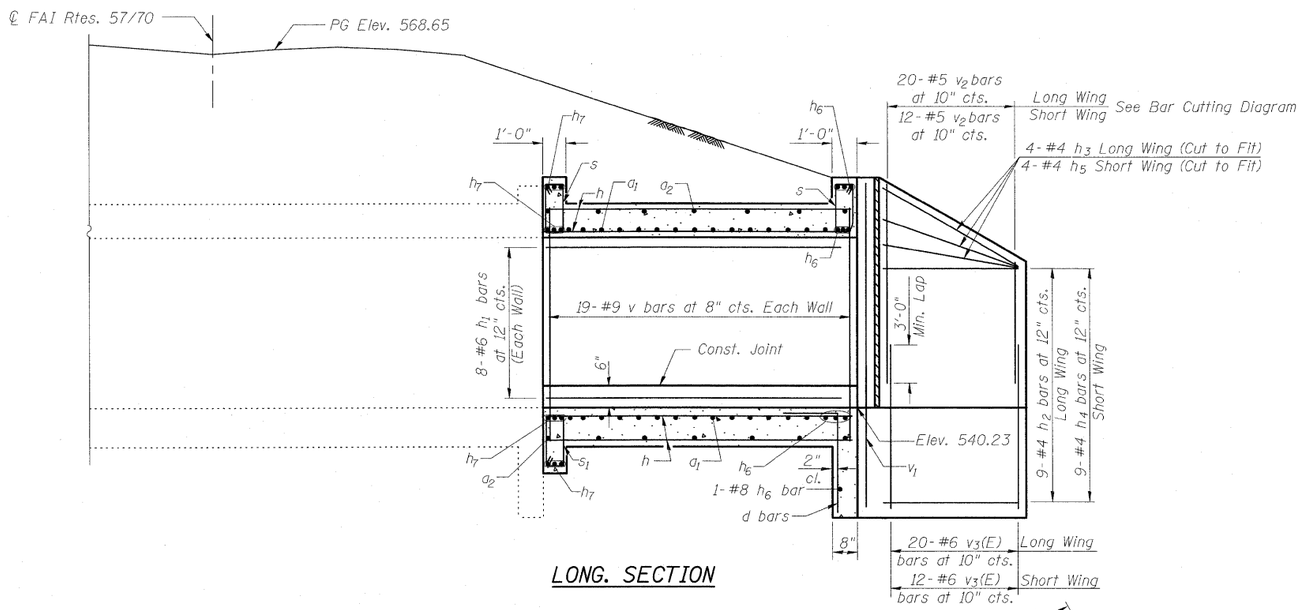
EXP. 11-30-2012

Chadwick J. Fuesting 3/15/11

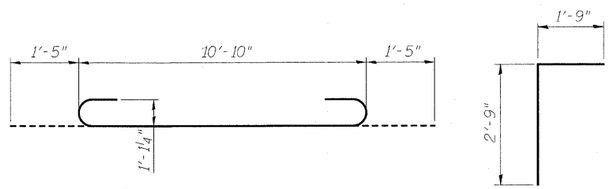
BOX CULVERT DETAILS LT STA 2168+06.10 FAI ROUTES 57/70

FILE NAME = ..\LT 2168+06J0.dgn	USER NAME =	DESIGNED - A.C.S.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
BERNARDIN • LOCHMUELLER & ASSOCIATES, INC. 3 OAK DRIVE MARYVILLE, ILLINOIS 62062 PHONE (618) 288-4665 FAX (618) 288-4666	Illinois Design Firm Number 184.001670	CHECKED - B.B.	REVISED -		
	PLOT SCALE =	DRAWN - A.C.S.	REVISED -		
	PLOT DATE = 1:42:49 PM 3/15/2011	CHECKED - C.J.F.	REVISED -		SHEET NO. 1 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	359
		CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

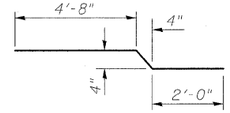


LONG. SECTION

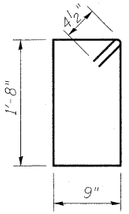


BAR a_1

BAR d



BAR h_8



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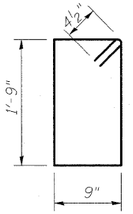
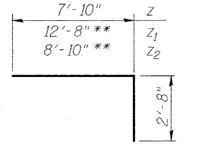
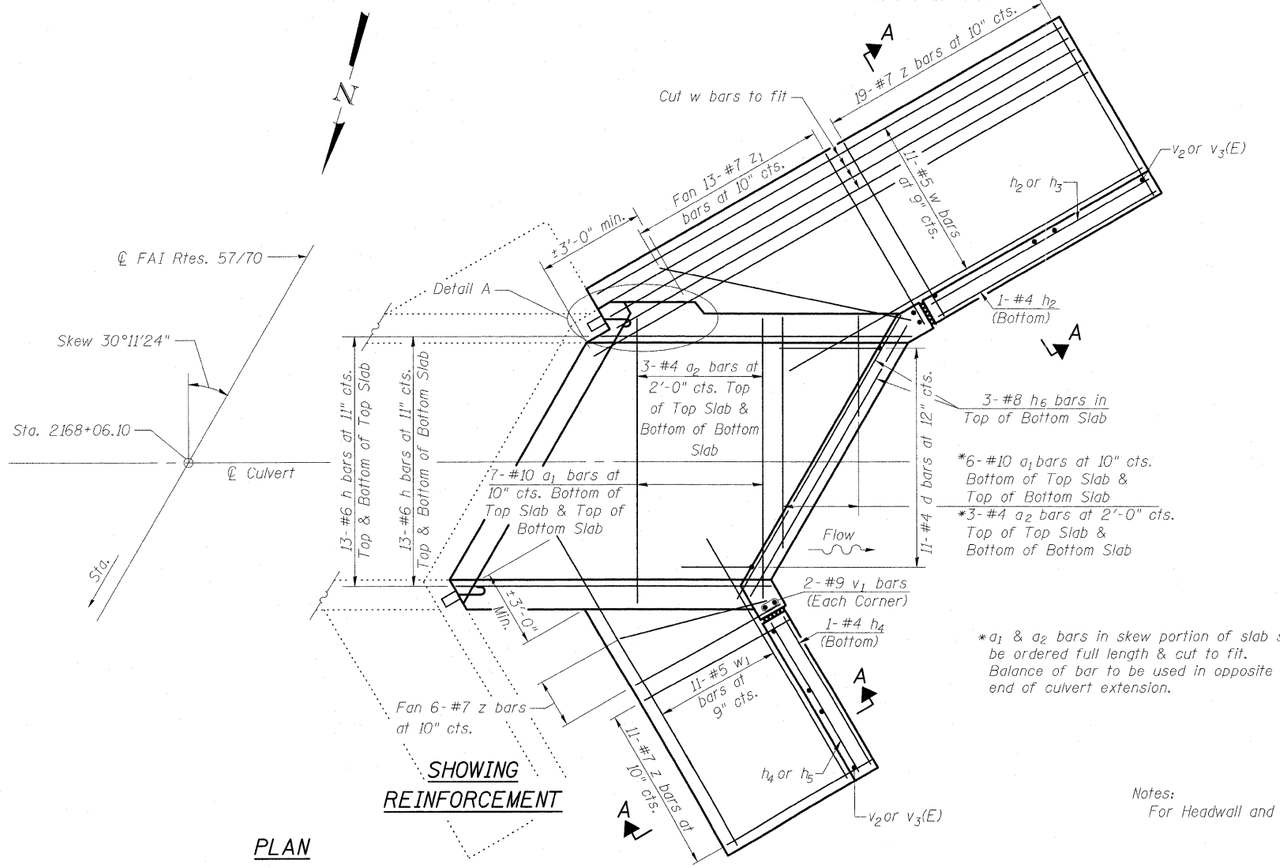


BAR s_1



BAR z, z_1 & z_2

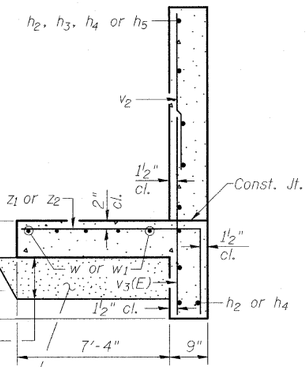
** Field cut z_1 and z_2 bars to fit.



SHOWING REINFORCEMENT

PLAN

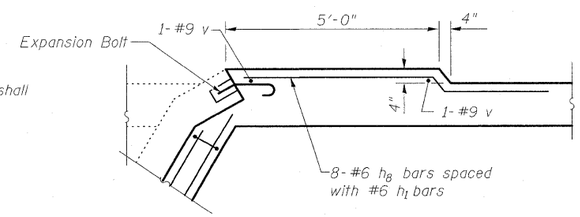
*a_1 & a_2 bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert extension.



Removal & Disposal of Unsuitable Material and Rockfill-Replacement

SECTION A-A

Calculated Max. Soil Pressure Under Footing = 2480 psf



DETAIL A

Notes:
For Headwall and Edge Beam Reinforcement, see Sheet 1 of 3.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1	26	#10	13'-8"	
a_2	12	#4	10'-10"	
d	11	#4	4'-6"	
h	52	#6	11'-8"	
h_1	16	#6	11'-6"	
h_2	10	#4	15'-2"	
h_3	4	#4	15'-9"	
h_4	10	#4	8'-8"	
h_5	4	#4	9'-7"	
h_6	10	#8	12'-5"	
h_7	12	#8	13'-1"	
h_8	8	#6	7'-2"	
s	24	#4	5'-7"	
s_1	12	#4	5'-9"	
v	40	#9	9'-1"	
v_1	4	#9	11'-7"	
v_2	16	#5	12'-7"	
$v_3(E)$	32	#6	6'-4"	
w	11	#5	27'-0"	
w_1	11	#5	16'-7"	
z	30	#7	10'-6"	
z_1	13	#7	15'-4"	
z_2	6	#7	11'-6"	
Concrete Box Culverts		Cu. Yd.	34.3	
Reinforcement Bars, Epoxy Coated		Pound	310	
Reinforcement Bars		Pound	7340	
¾" Expansion Bolts		Each	26	
Concrete Removal		Cu. Yd.	7.3	
Removal & Disposal of Unsuitable Material		Cu. Yd.	33	
Rockfill-Replacement		Ton	69	

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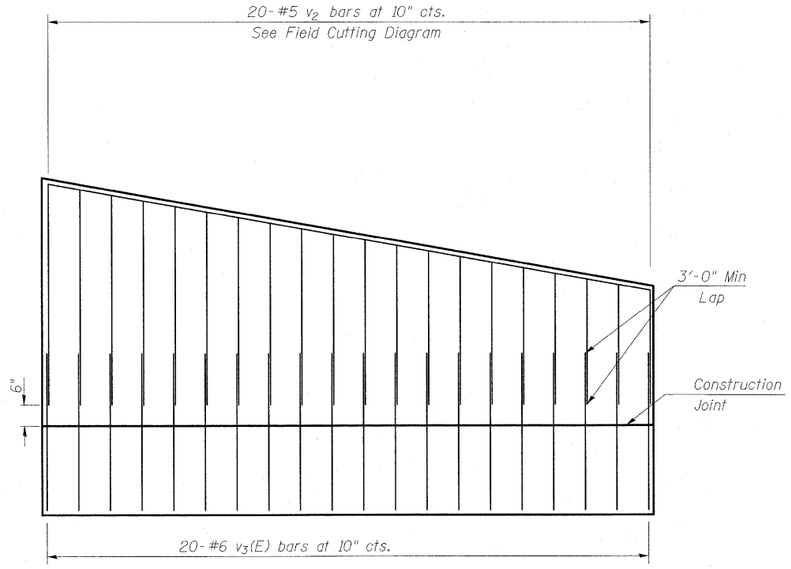
DESIGNED - A.C.S.
CHECKED - B.B.
DRAWN - A.C.S.
CHECKED - C.J.F.
REVISED -

BERNARDIN • LOCHMUELLER & ASSOCIATES, INC.
3 OAK DRIVE
MARYVILLE, ILLINOIS 62062
PHONE (618) 288-4665
FAX (618) 288-4666
Illinois Design Firm Number 184.001670

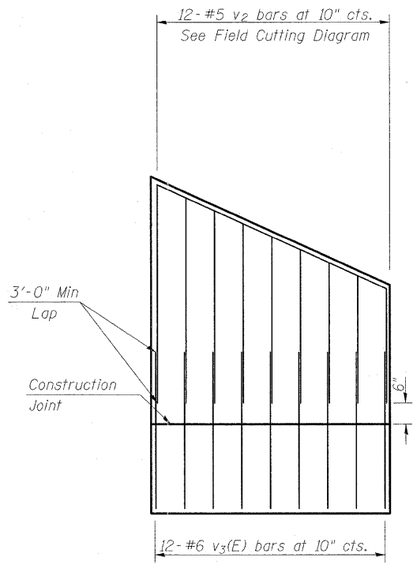
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS, LT STA 2168+06.10
FAI ROUTES 57/70
SHEET NO. 2 OF 11 SHEETS

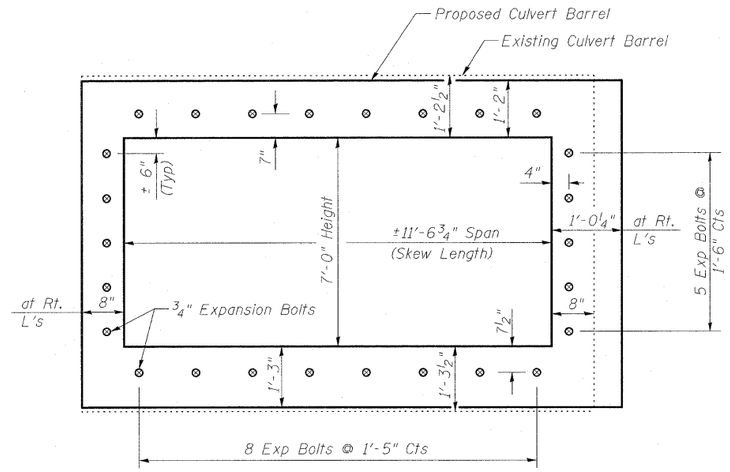
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	360
		CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



LONG WING



SHORT WING



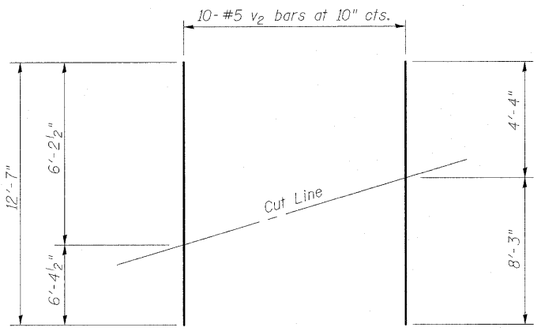
Note - Expansion Bolts shall be ¾" hooked bolts. Hooked bolts shall extend a minimum of 9" into the new concrete

EXPANSION BOLT LAYOUT

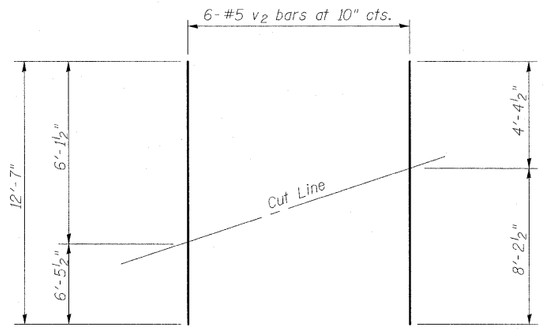
LONG WING
SHOWING REINFORCEMENT

SHORT WING
SHOWING REINFORCEMENT

FIELD CUTTING AND
PLACEMENT DIAGRAMS



FIELD CUTTING DIAGRAM
(v_2 bars in long wall)



FIELD CUTTING DIAGRAM
(v_2 bars in short wall)

Order v_2 bars full length. Cut as shown. Use remainder of bar in opposite end of Wing Wall.

BERNARDIN • LOCHMUELLER & ASSOCIATES, INC.
3 OAK DRIVE
MARYVILLE, ILLINOIS 62062
PHONE (618) 288-4668
FAX (618) 288-4666

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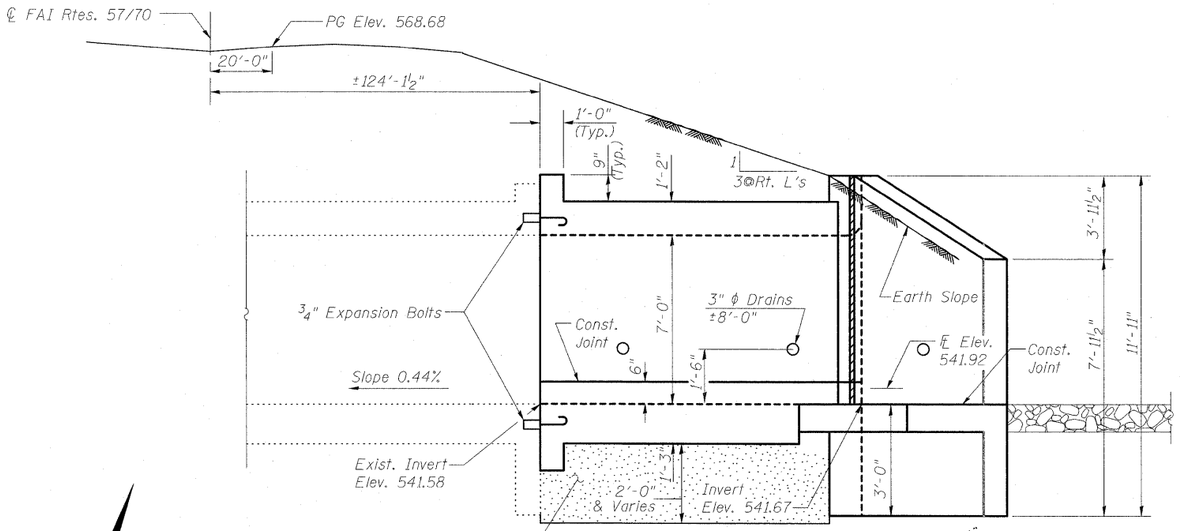
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

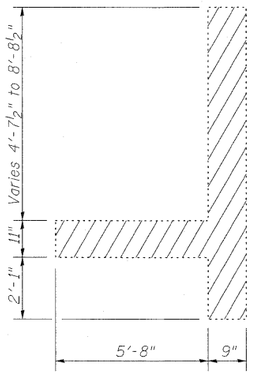
BOX CULVERT DETAILS, LT STA 2168+06.10
FAI ROUTES 57/70
SHEET NO. 3 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	361
		CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

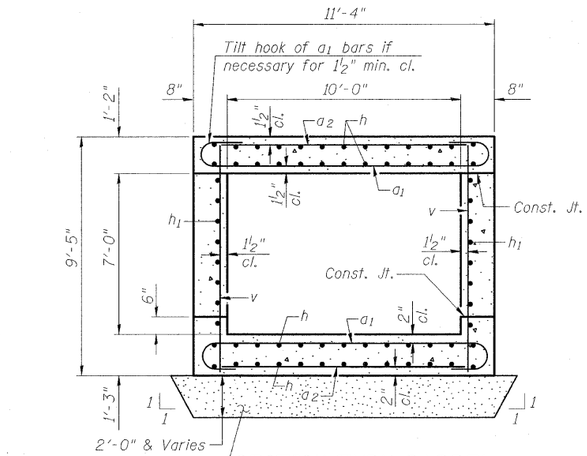


ELEVATION

Dimensions at Rt. <'s to ℄ Roadway

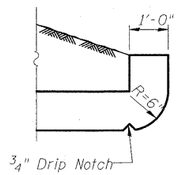


SECTION A-A



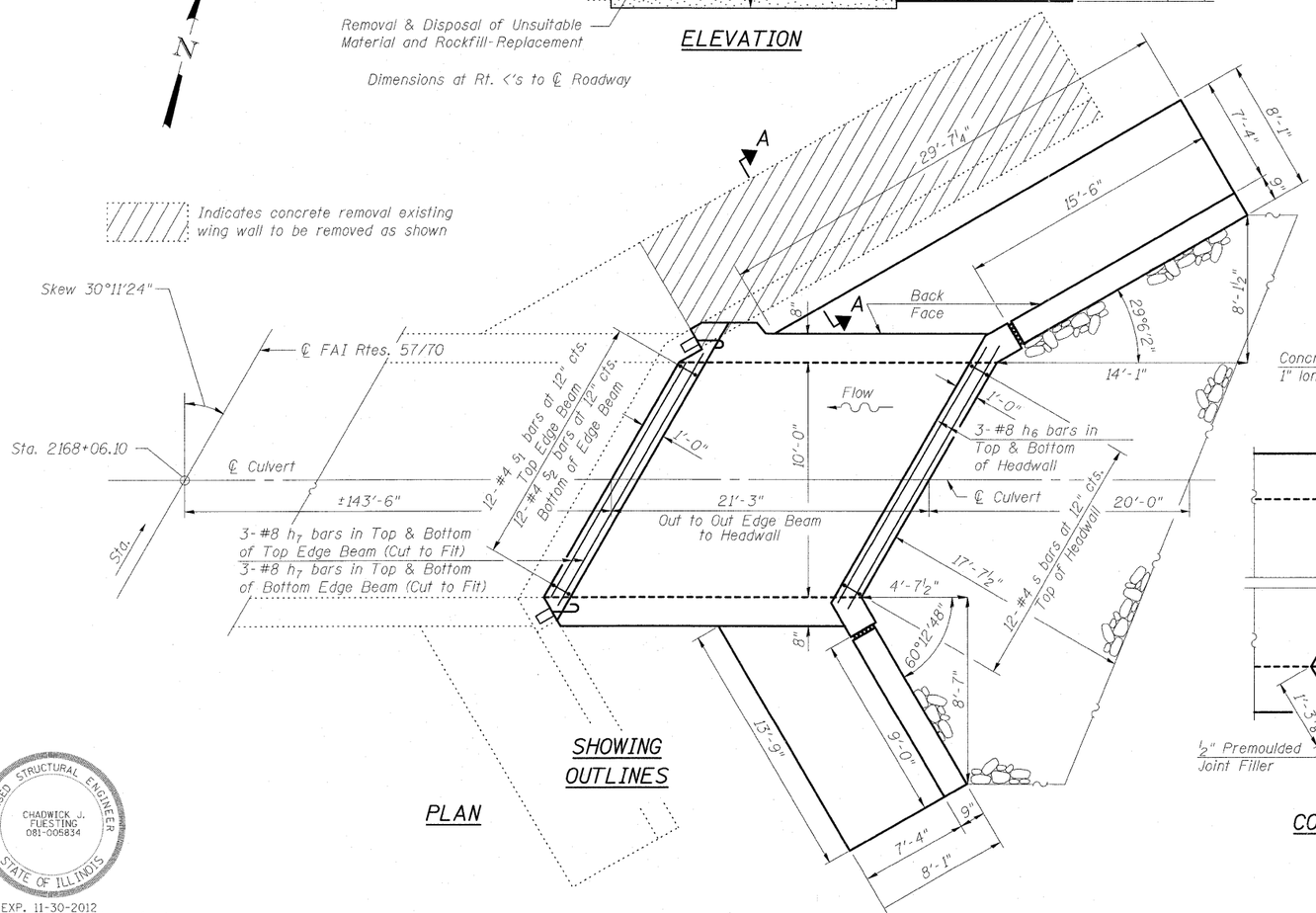
SECTION THRU BARREL

Calculated Max. Soil Pressure Under Barrel = 2920 psf



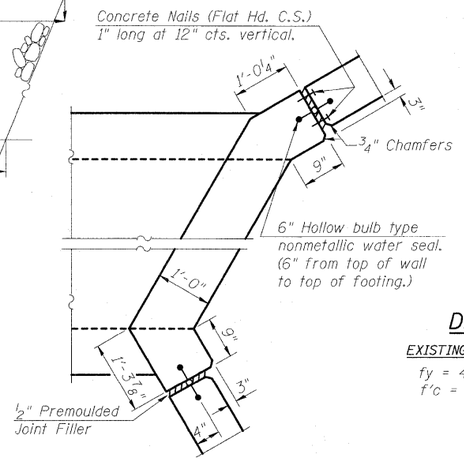
SECTION THRU HEADWALL

Indicates concrete removal existing wing wall to be removed as shown



PLAN

SHOWING OUTLINES



CORNER DETAIL

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Removal of the existing wings during construction shall be completed according to Section 501.05 of the Standard Specifications.

Reinforcement bars designated (E) shall be epoxy coated.

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The results of the test must exceed the calculated bearing pressures shown on the plans prior to placement of the Concrete Box Culvert or Rockfill-Replacement. Tests failing to exceed the calculated bearing pressures as shown on the plans will require subsurface modification that must be coordinated with the District Geotechnical and Field Engineers.

For riprap placement and quantity, see roadway plans.

Existing wing wall shall be removed to existing wing wall joint as shown.

DESIGN STRESSES

EXISTING CONSTRUCTION	NEW CONSTRUCTION
fy = 40,000 psi	fy = 60,000 psi
f'c = 3,000 psi	f'c = 3,500 psi

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS 20-44 & ALT.

LICENSED STRUCTURAL ENGINEER — CHADWICK J. FUESTING 081-005834 — STATE OF ILLINOIS

EXP. 11-30-2012

Chadwick J Fuesting 3/15/2011

BOX CULVERT DETAILS RT STA 2168+06.10 FAI ROUTES 57/70

FILE NAME = \...\RT 2168+06.10.dgn	USER NAME =	DESIGNED - A.C.S.	REVISED -	
BERNARDIN • LOCHMUELLER & ASSOCIATES, INC. 3 OAK DRIVE MARYVILLE, ILLINOIS 62062 PHONE (618) 288-4666 FAX (618) 288-4666	Illinois Design Firm Number 184.001670	CHECKED - B.B.	REVISED -	
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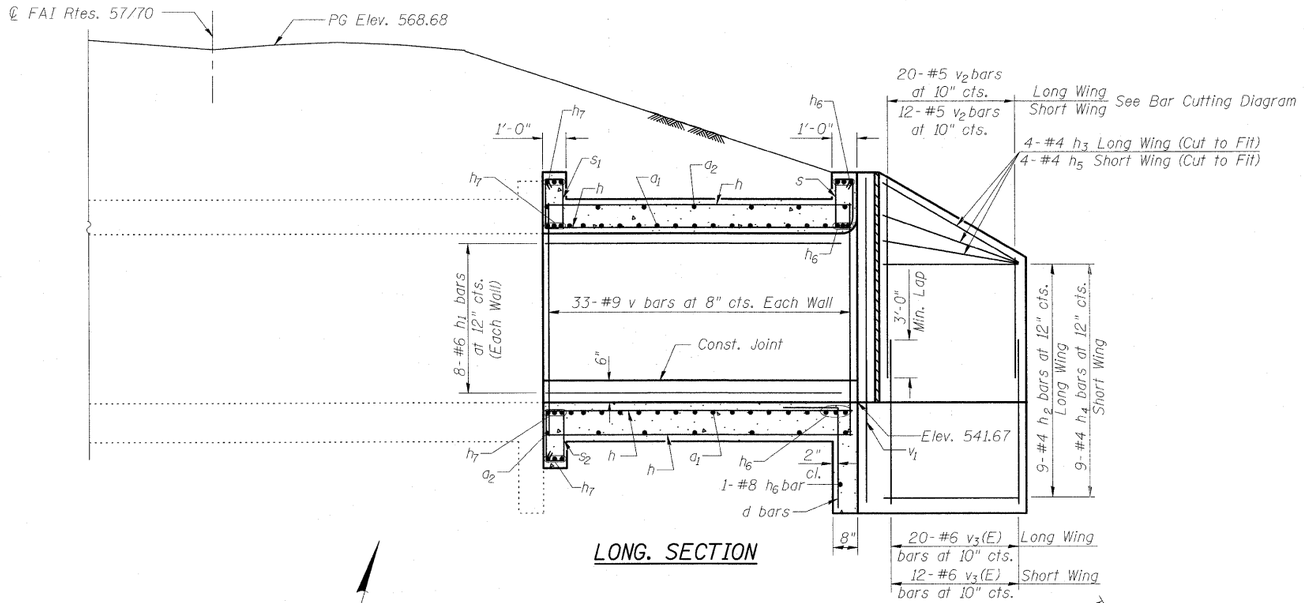
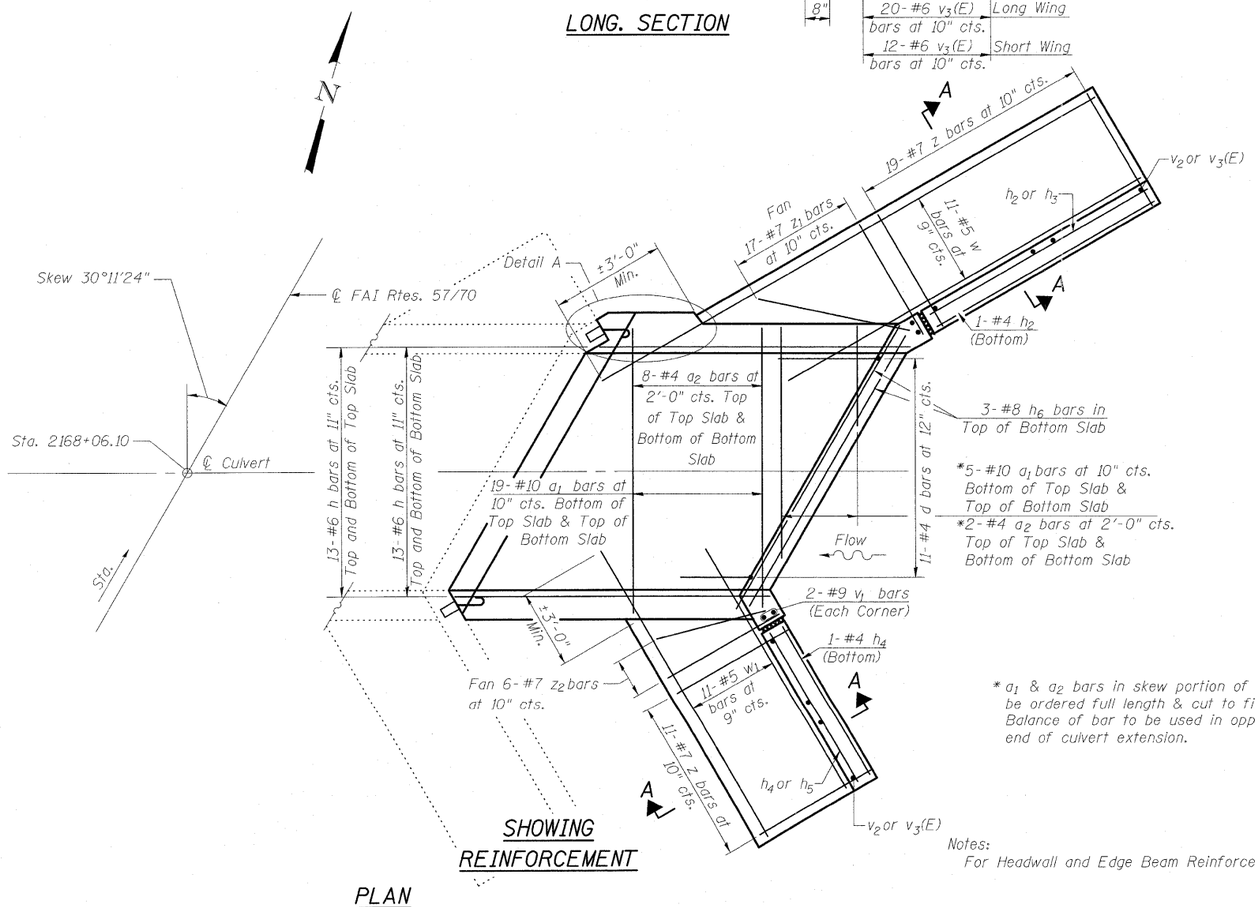
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 4 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	362
		CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



LONG. SECTION

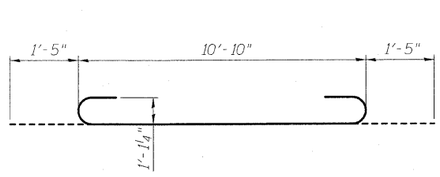


SHOWING REINFORCEMENT

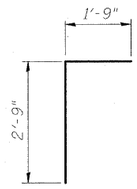
PLAN

* a_1 & a_2 bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert extension.

Notes:
For Headwall and Edge Beam Reinforcement, see Sheet 1 of 3.



BAR a_1



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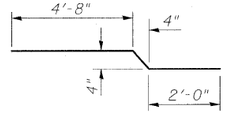
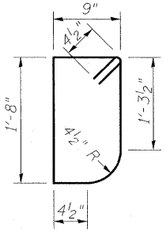


BAR h_8



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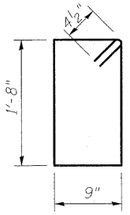
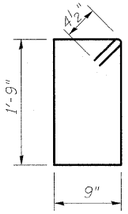
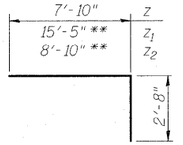


BAR s_1

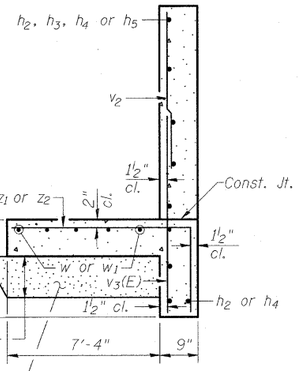


BAR s_2



BAR z, z_1 & z_2

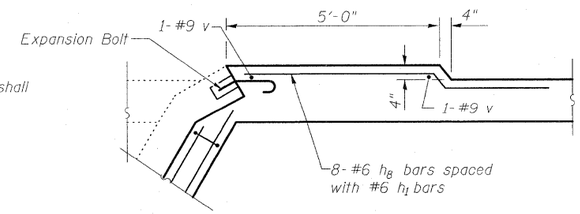
** Field cut z_1 and z_2 bars to fit.



Removal & Disposal of Unsuitable Material and Rockfill-Replacement

SECTION A-A

Calculated Max. Soil Pressure Under Footing = 2480 psf



DETAIL A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1	48	#10	13'-8"	
a_2	20	#4	10'-10"	
d	11	#4	4'-6"	
h	52	#6	20'-11"	
h_1	16	#6	20'-9"	
h_2	10	#4	15'-2"	
h_3	4	#4	15'-9"	
h_4	10	#4	8'-8"	
h_5	4	#4	9'-7"	
h_6	10	#8	12'-0"	
h_7	12	#8	12'-10"	
h_8	8	#6	7'-2"	
s	12	#4	5'-5"	
s_1	12	#4	5'-7"	
s_2	12	#4	5'-9"	
v	68	#9	9'-1"	
v_1	4	#9	11'-7"	
v_2	16	#5	12'-7"	
$v_3(E)$	32	#6	6'-4"	
w	11	#5	32'-6"	
w_1	11	#5	16'-7"	
z	30	#7	10'-6"	
z_1	17	#7	18'-1"	
z_2	6	#7	11'-6"	
Concrete Box Culverts		Cu. Yd.	47.8	
Reinforcement Bars, Epoxy Coated		Pound	310	
Reinforcement Bars		Pound	10760	
¾" Expansion Bolts		Each	20	
Concrete Removal		Cu. Yd.	7.3	
Removal & Disposal of Unsuitable Material		Cu. Yd.	41	
Rockfill-Replacement		Ton	86	

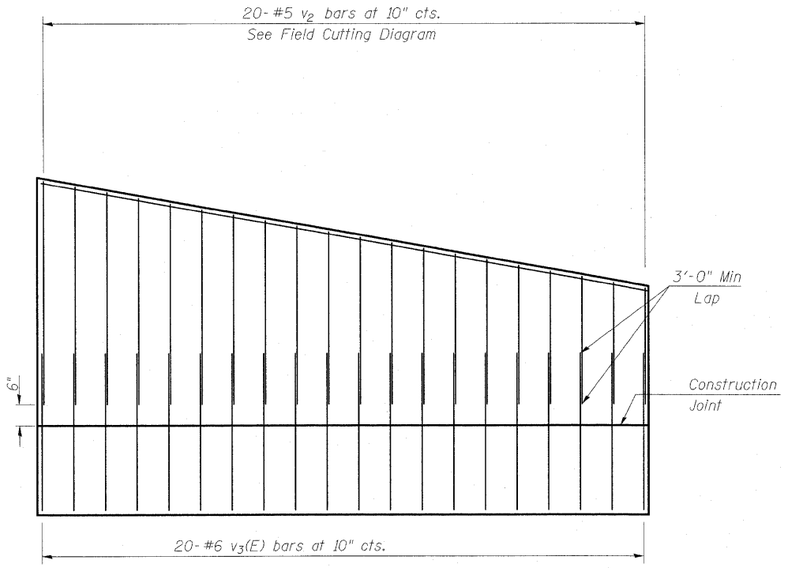
BERNARDIN • LOCHMUELLER & ASSOCIATES, INC.
3 OAK DRIVE
MARYVILLE, ILLINOIS 62062
PHONE (618) 288-4545
FAX (618) 288-4688

FILE NAME = _RT 2168+06.10.dgn	USER NAME =	DESIGNED - A.C.S.	REVISED -
Illinois Design Firm Number 184.001670		CHECKED - B.B.	REVISED -
	PLOT SCALE =	DRAWN - A.C.S.	REVISED -
	PLOT DATE = 1:44:20 PM 3/15/2011	CHECKED - C.J.F.	REVISED -

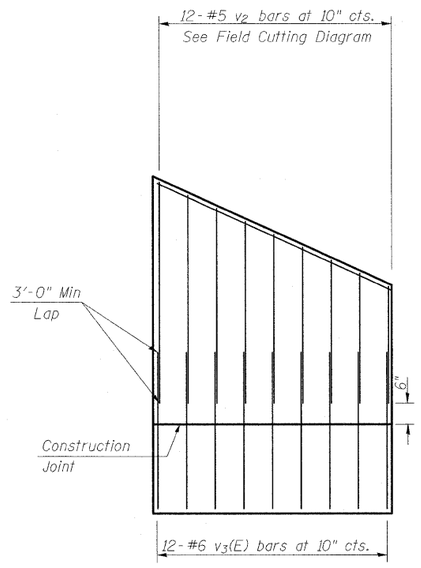
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS, RT STA 2168+06.10
FAI ROUTES 57/70
SHEET NO. 5 OF 11 SHEETS

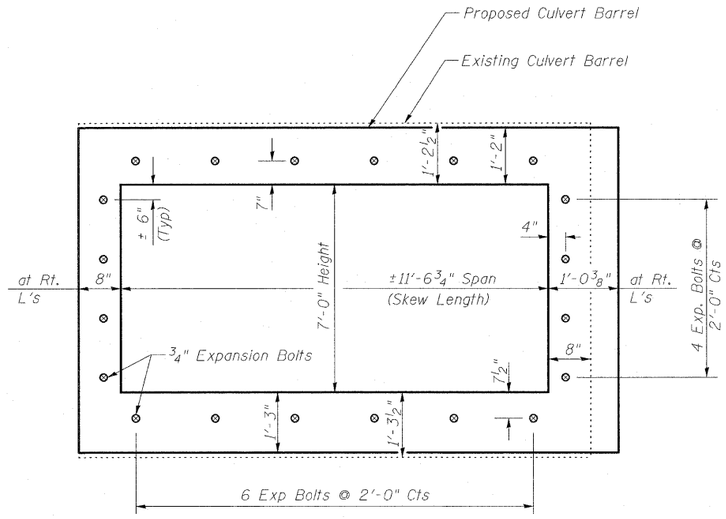
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	363
		CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



LONG WING
SHOWING REINFORCEMENT



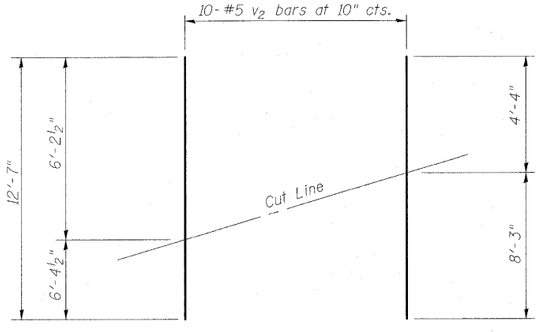
SHORT WING
SHOWING REINFORCEMENT



Note - Expansion Bolts shall be ¾" hooked bolts. Hooked bolts shall extend a minimum of 9" into the new concrete

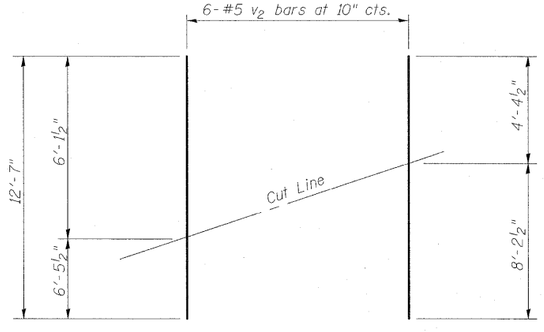
EXPANSION BOLT LAYOUT

FIELD CUTTING AND PLACEMENT DIAGRAMS



FIELD CUTTING DIAGRAM
(v_2 bars in long wall)

Order v_2 bars full length. Cut as shown. Use remainder of bar in opposite end of wing wall.



FIELD CUTTING DIAGRAM
(v_2 bars in short wall)

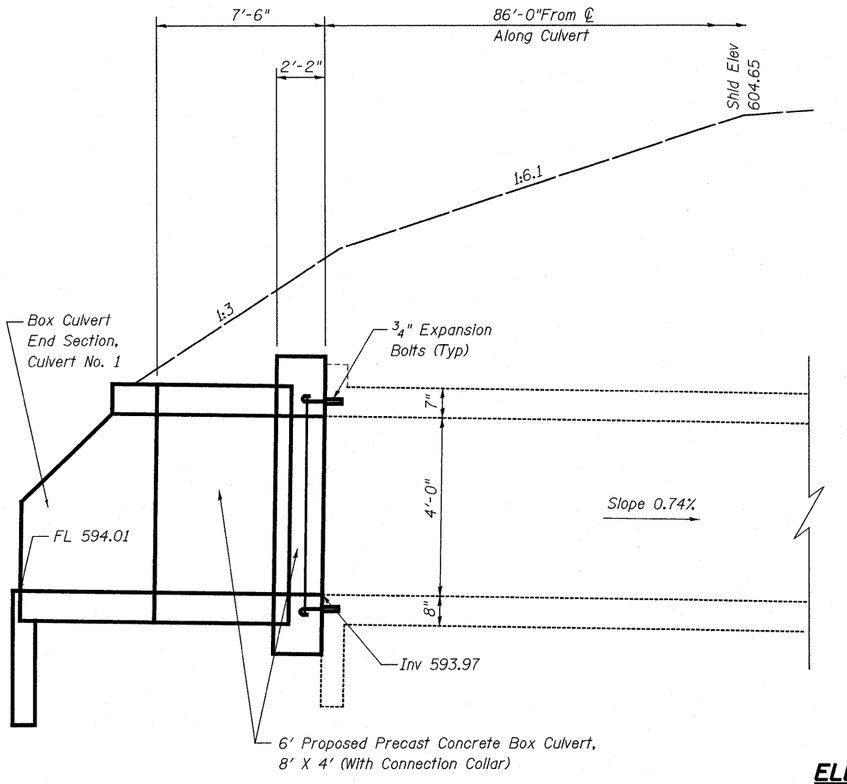
FILE NAME = ..\RT 2168-06J0.dgn	USER NAME =	DESIGNED - A.C.S.	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BOX CULVERT DETAILS, RT STA 2168+06.10**
BERNARDIN · LOCHMUELLER & ASSOCIATES, INC. 3 OAK DRIVE MARYVILLE, ILLINOIS 62062 PHONE (618) 288-4668 FAX (618) 288-4666	Illinois Design Firm Number 184.001670	CHECKED - B.B.	REVISED -		**FAI ROUTES 57/70**
	PLOT SCALE =	DRAWN - A.C.S.	REVISED -		SHEET NO. 6 OF 11 SHEETS
	PLOT DATE = 1:44:29 PM 3/15/2011	CHECKED - C.J.F.	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	364
		CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

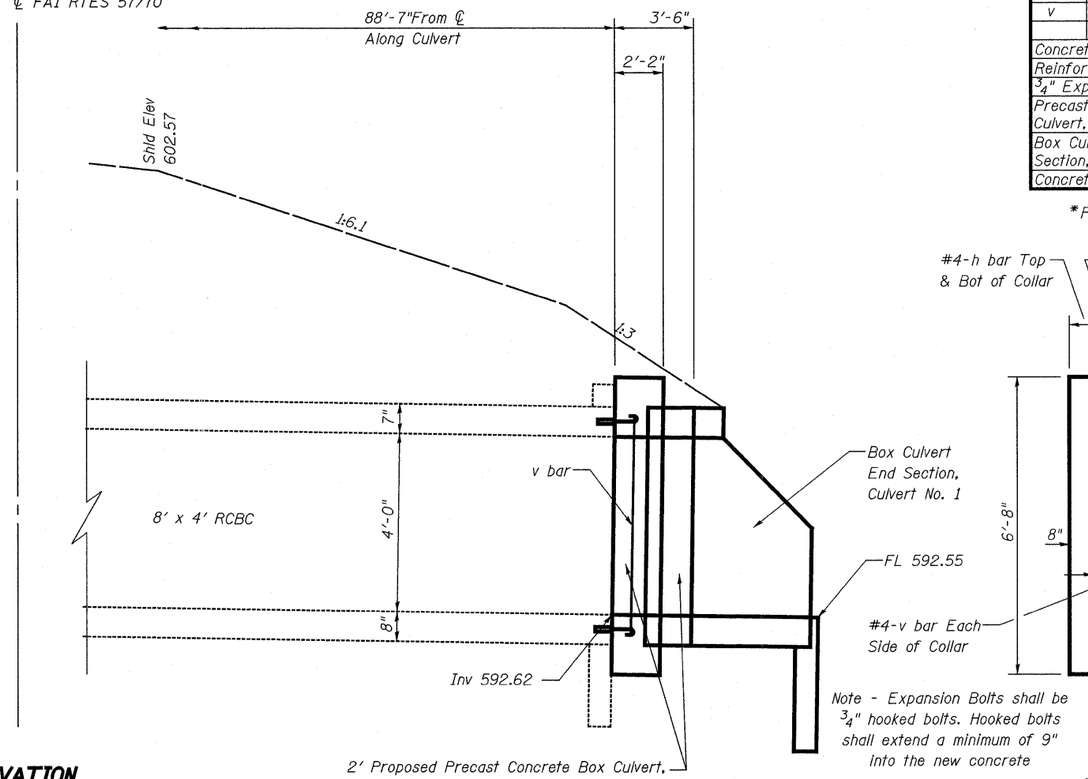
BILL OF MATERIAL

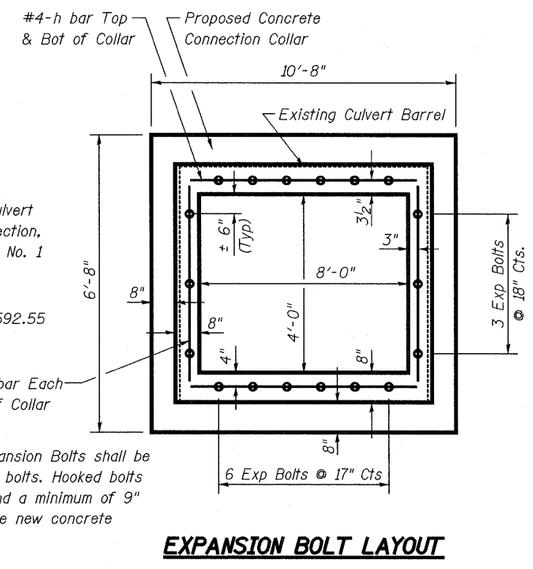
Bar	No.	Size	Length	Shape
h	4	#4	8'-6"	———
v	4	#4	4'-7"	———
Concrete Collar			Cu. Yd.	5.4
Reinforcement Bars *			Pound	36
3/4" Expansion Bolts *			Each	36
Precast Concrete Box Culvert, 8' X 4'			Foot	8
Box Culvert End Section, Culvert No. 1			Each	2
Concrete Removal			Cu. Yd.	4.6

*For Information Only.



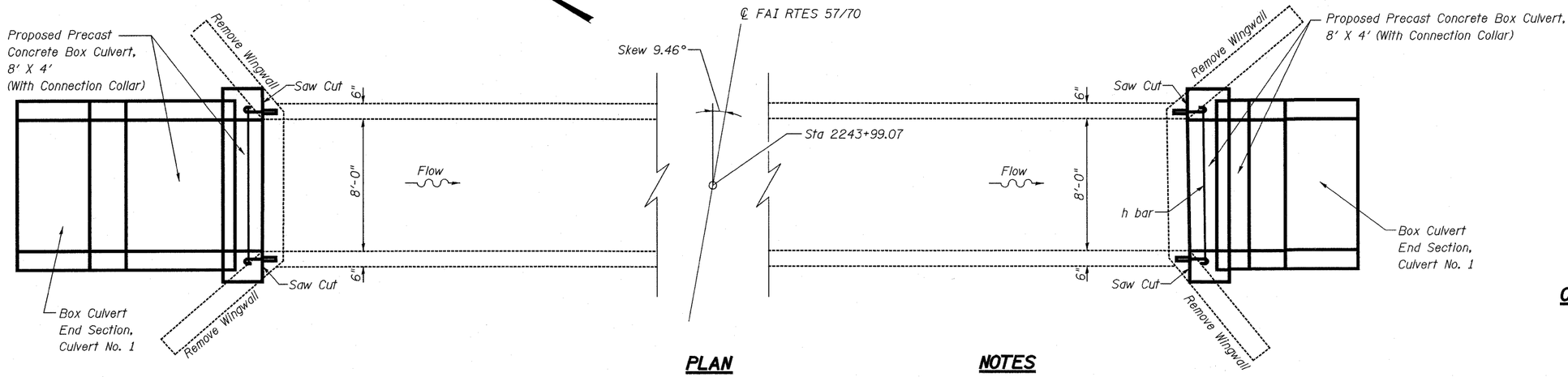
ELEVATION



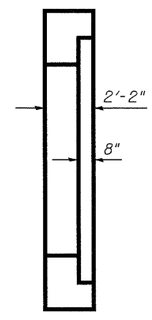


Note - Expansion Bolts shall be 3/4" hooked bolts. Hooked bolts shall extend a minimum of 9" into the new concrete

EXPANSION BOLT LAYOUT



PLAN



CONNECTION COLLAR DETAIL

NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Class SI Concrete shall be used for the Conrete Collars.

FILE NAME = _WL_Keller\Culvert Details.dgn	USER NAME = bselbel	DESIGNED - RCB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOX CULVERT DETAILS STA 2243+99.07 FAI ROUTES 57/70	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JWS	REVISED -			57/70	(25-3,4)R	EFFINGHAM	1098	365
	PLOT SCALE =	DRAWN - RCB	REVISED -						CONTRACT NO. 74299	
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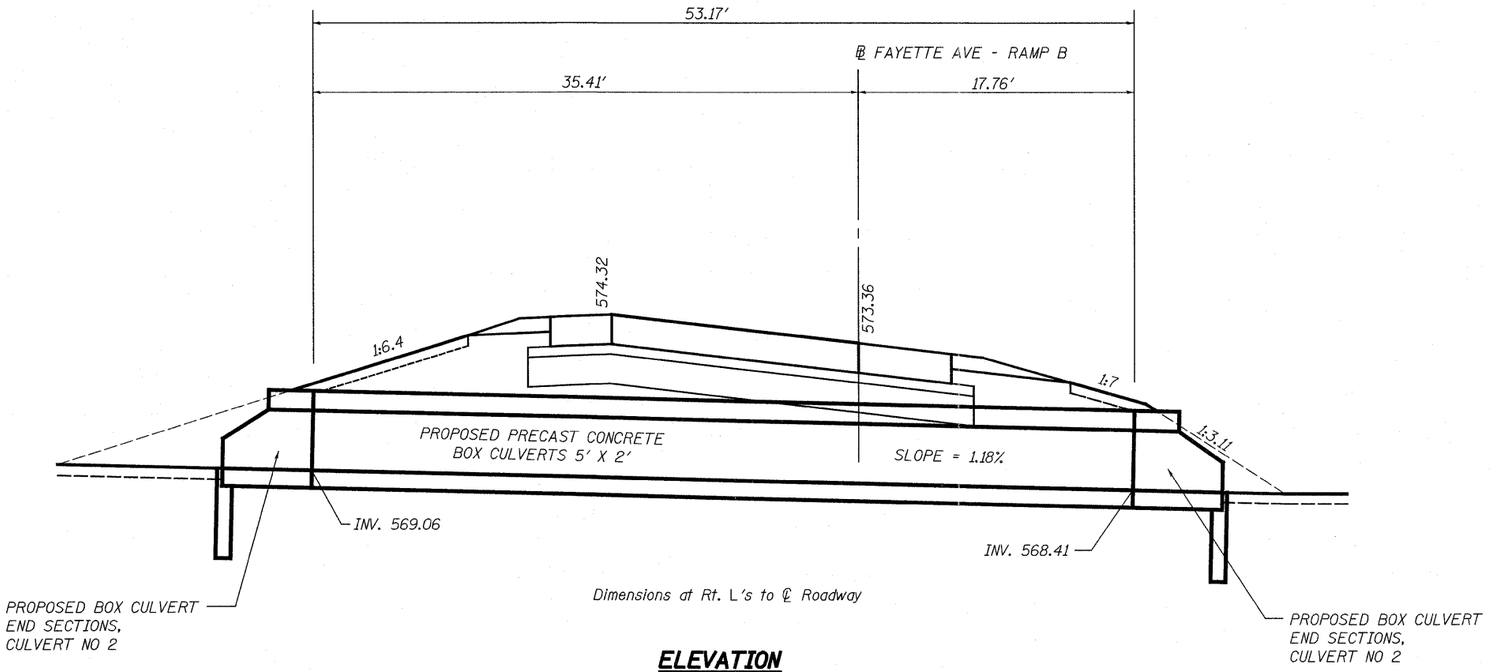
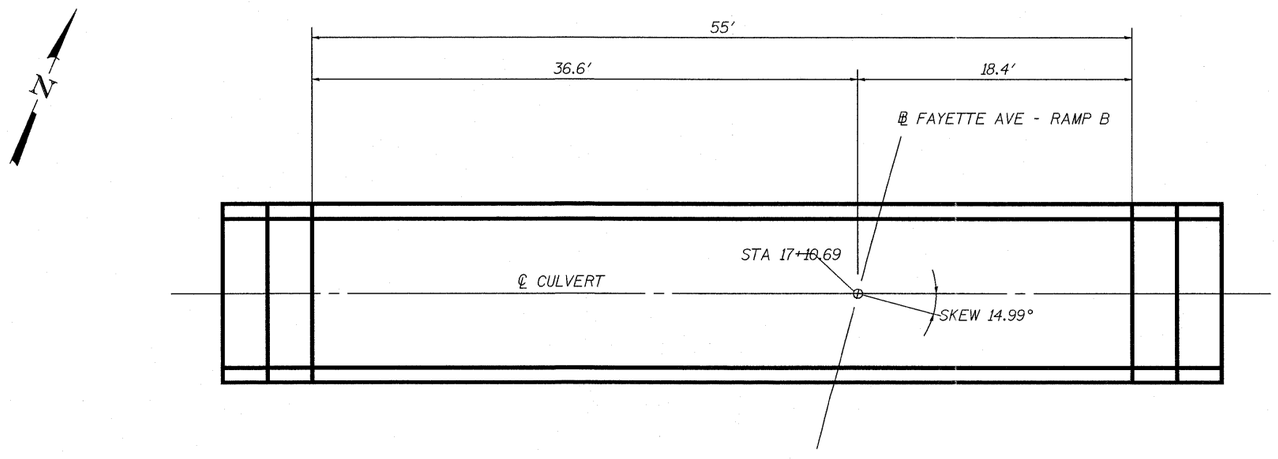


Dimensions at Rt. L's to ℄ Roadway

ELEVATION



PLAN

BILL OF MATERIALS

PRECAST CONCRETE BOX CULVERT, 5' X 2'	FOOT	55
BOX CULVERT END SECTION, CULVERT NO. 2	EACH	2

FILE NAME = ...\WL_Keller\Culvert Details.dgn	USER NAME = bseibel	DESIGNED - RCB	REVISED -
		CHECKED - JWS	REVISED -
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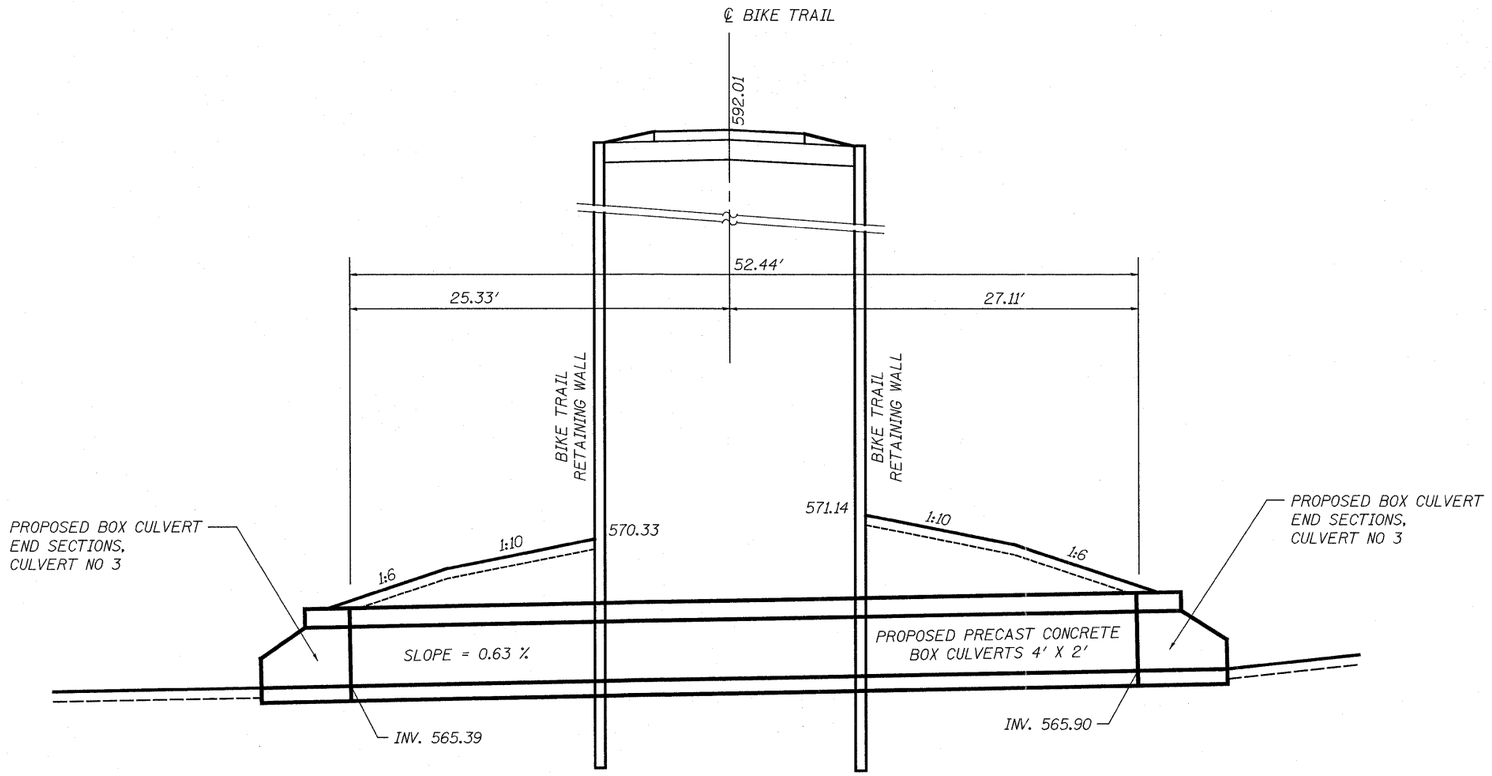
	PLOT DATE = 7/6/34 AM 3/18/2011	CHECKED - BRM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

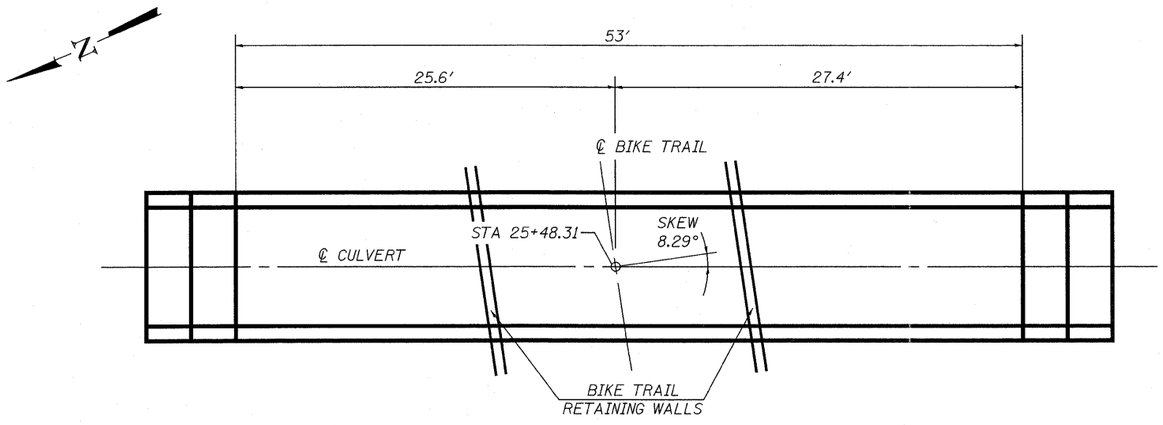
BOX CULVERT DETAILS PRECAST CONCRETE BOX CULVERT
STA 17+10.69 FAYETTE AVENUE – RAMP B
SHEET NO. 8 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	366
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			



Dimensions at Rt. L's to ℄ Roadway

ELEVATION



PLAN

BILL OF MATERIALS

PRECAST CONCRETE BOX CULVERT, 4' X 2'	FOOT	53
BOX CULVERT END SECTION, CULVERT NO. 3	EACH	2

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		CHECKED - JWS	REVISED -
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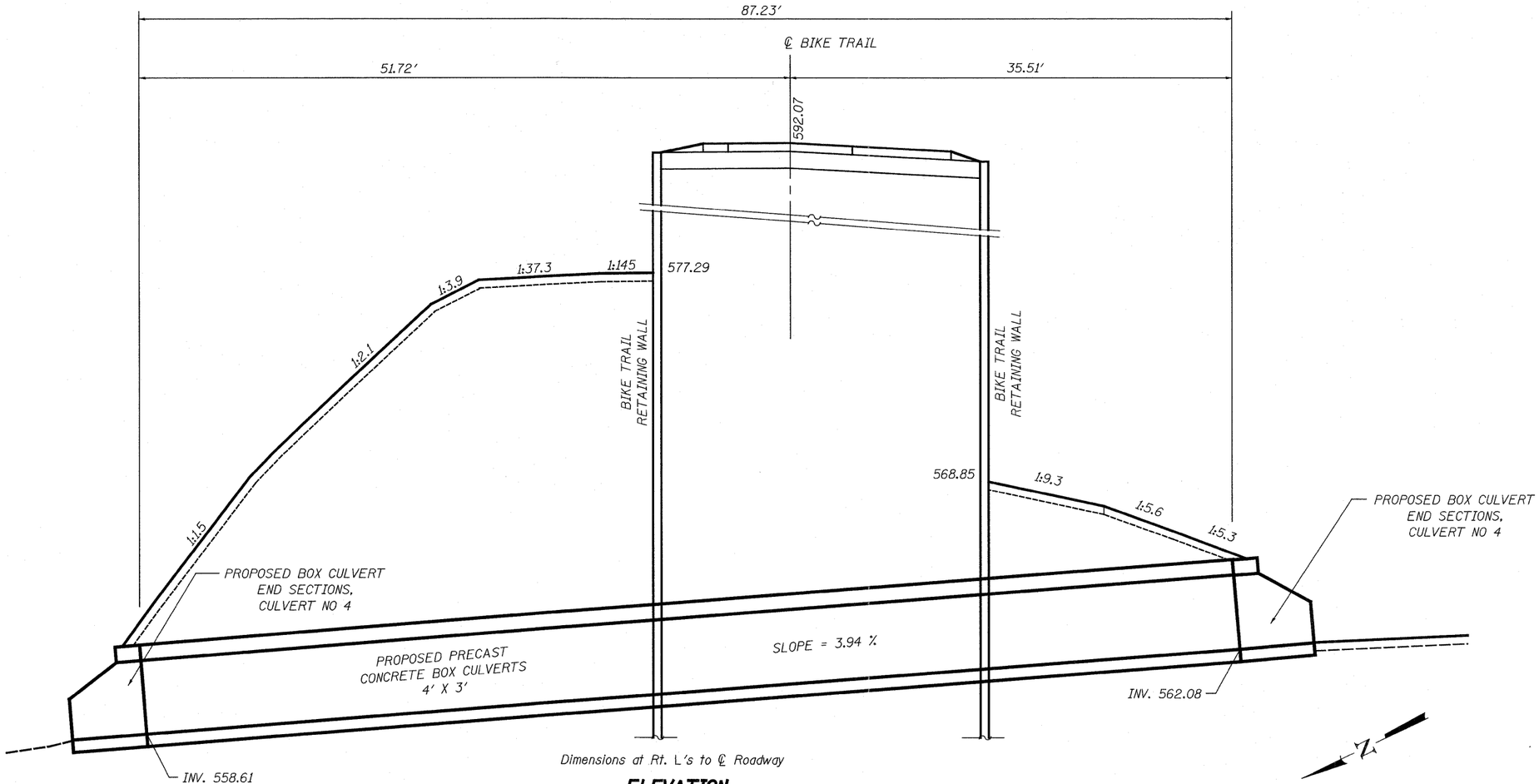
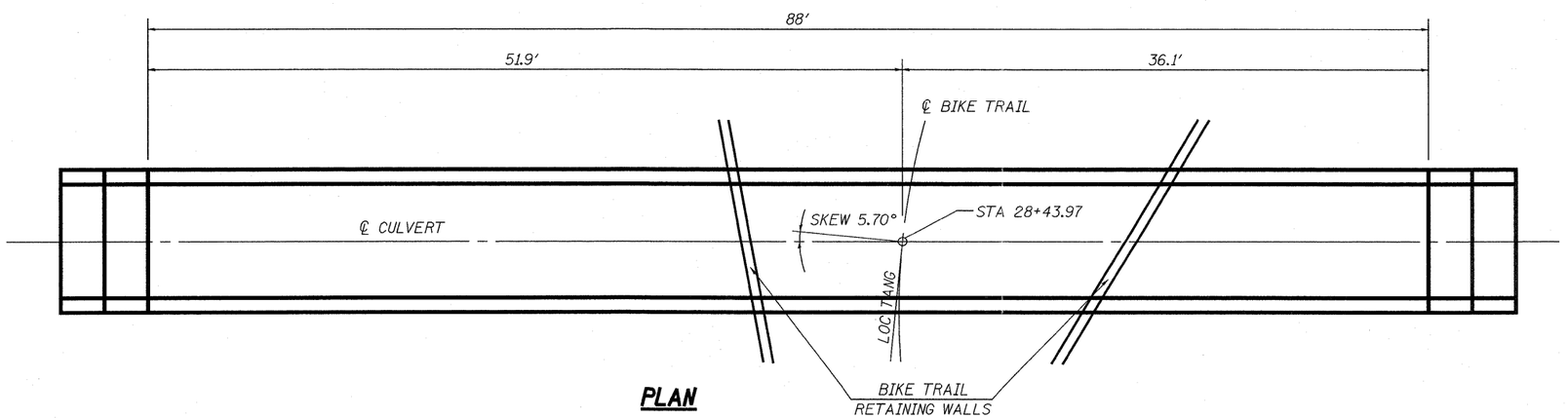
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS PRECAST CONCRETE BOX CULVERT
STA 25+48.31 BIKE TRAIL
SHEET NO. 9 OF 11 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	367
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			



ELEVATION



PLAN

BILL OF MATERIALS

PRECAST CONCRETE BOX CULVERT, 4' X 3'	FOOT	88
BOX CULVERT END SECTION, CULVERT NO. 4	EACH	2

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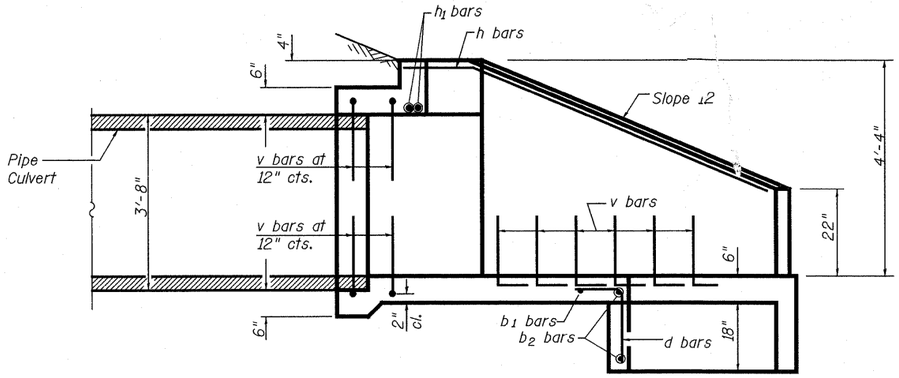
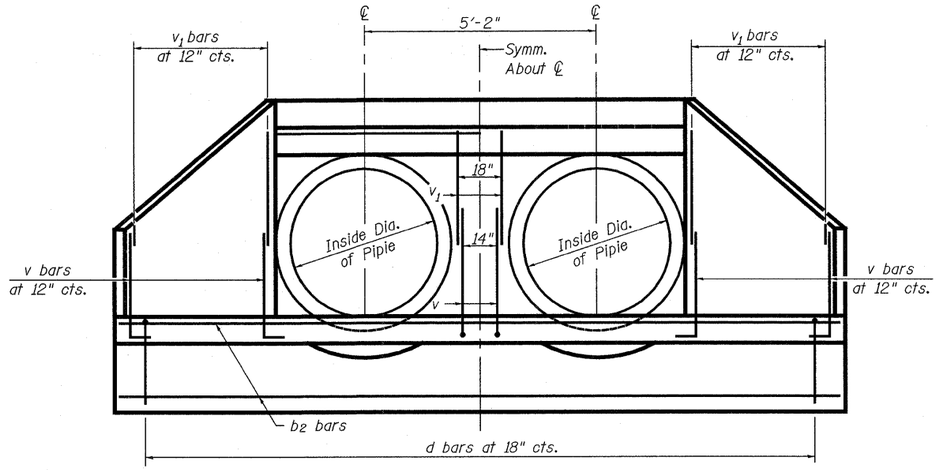
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS PRECAST CONCRETE BOX CULVERT
STA 28+43.97 BIKE TRAIL
SHEET NO. 10 OF 11 SHEETS

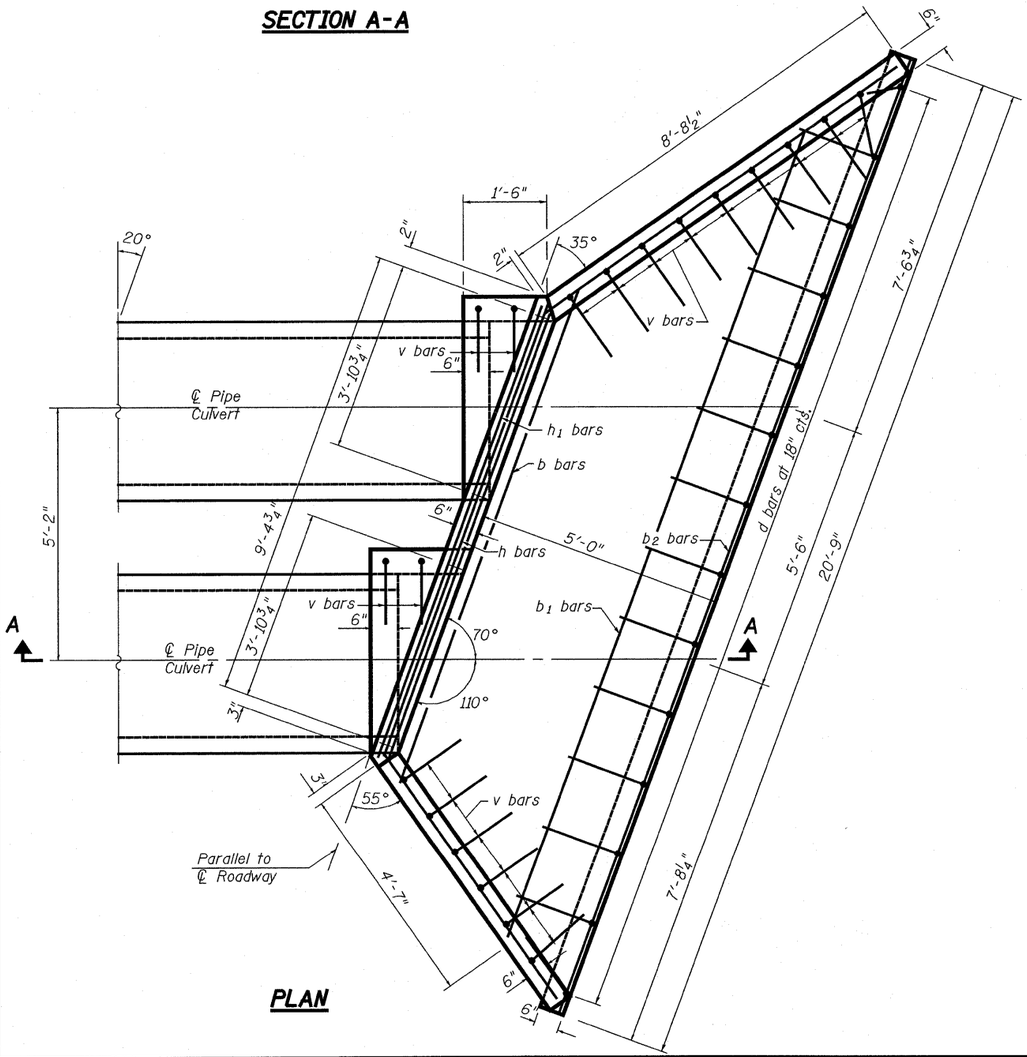
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	368
		CONTRACT NO. 74299		
	ILLINOIS FED. AID PROJECT			



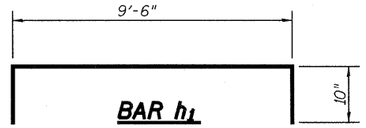
SECTION A-A



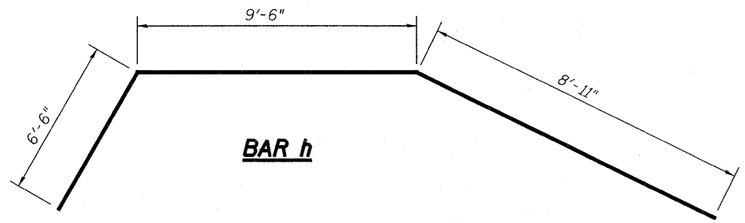
END ELEVATION



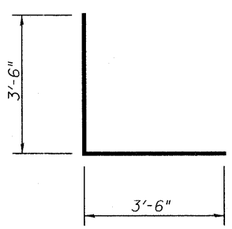
PLAN



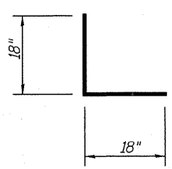
BAR h1



BAR h



BAR v



BAR d

BILL OF MATERIAL-1 END SECTION FOR INFORMATION ONLY

Bar	No.	Size	Length	Shape
b	1	#4	10'-6"	
b_1	1	#4	17'-6"	
b_2	2	#4	20'-0"	
d	14	#4	3'-0"	L
h	1	#4	24'-11"	
h_1	2	#4	11'-6"	
v	30	#4	7'-0"	
v_1	16	#4	3'-6"	
Concrete Box Culverts			Cu. Yd.	4.0
Reinforcement Bars			Pound	283

FILE NAME = $FILE$	USER NAME = bseibel	DESIGNED - ESW	REVISED -
		DRAWN - PDB	REVISED -
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	PLOT DATE = 3/10/2011	DATE - 03-01-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REINFORCED CONCRETE END SECTIONS DETAIL
STA 18+44.43 KELLER RAMP C

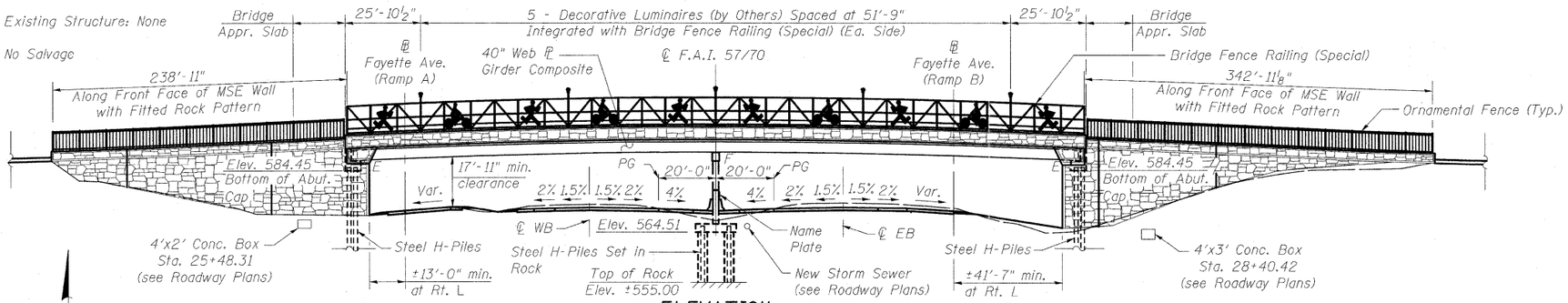
SCALE: | SHEET NO. 11 OF 11 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3,4)R	EFFINGHAM	1098	369
		CONTRACT NO. 74299		
		ILLINOIS FED. AID PROJECT		

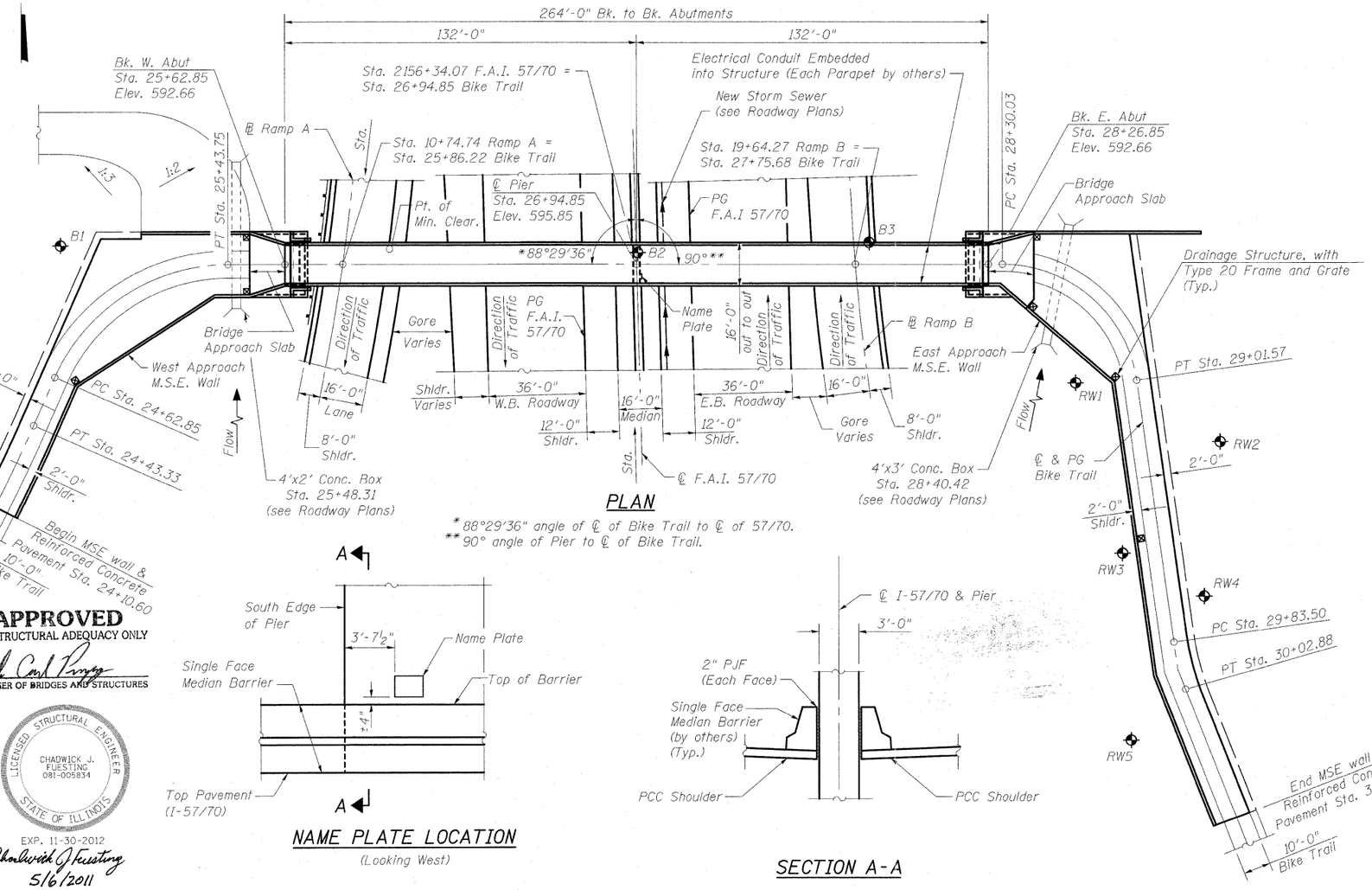
Bench Mark: Northeast bolt on sign base in median of I-57/70. Sign displaying "South Memphis, West St. Louis 2 Miles". Sta. 2158+86.00. 0.60' Rt. Elev. 570.18

Existing Structure: None

No Salvage



ELEVATION



PLAN

*88°29'36" angle of ℄ of Bike Trail to ℄ of 57/70.
**90° angle of Pier to ℄ of Bike Trail.

NAME PLATE LOCATION

(Looking West)

SECTION A-A

INDEX OF SHEETS

LOADING

Pedestrian Live Load = 85 psf
Vehicle Live Load = H-10
Allow 25 psf future wearing surface

DESIGN SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications 5th Edition 2010
AASHTO Guide Specifications for Design of Pedestrian Bridges 2009

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

PRECAST UNITS

f'c = 4,500 psi (Precast Panels)

STATION 2156+34.07
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. 57/70 SEC. (25-3)PB
LOADING H-10
STRUCTURE NO. 025-6010

NAME PLATE

See Std. 515001

SEISMIC DATA

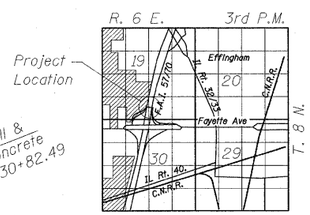
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1})=0.15g
Design Spectral Acceleration at 0.2 sec. (S_{DS})=0.36g
Soil Site Class = C

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

ENGINEER OF BRIDGES AND STRUCTURES

LICENSED STRUCTURAL ENGINEER
CHADWICK J. FUESTING
081-005834
STATE OF ILLINOIS

EXP. 11-30-2012
Chadwick J Fuesting
5/6/2011



LOCATION SKETCH

GENERAL PLAN
BIKE TRAIL BRIDGE OVER F.A.I. ROUTE 57/70
SECTION (25-3)PB
EFFINGHAM COUNTY
STATION 26+94.85
STRUCTURE NUMBER 025-6010

FILE NAME = ...\D7T4299-0256010-sht001.dgn
USER NAME =
PLOT SCALE =
PLOT DATE = 7:38:41 AM 5/6/2011

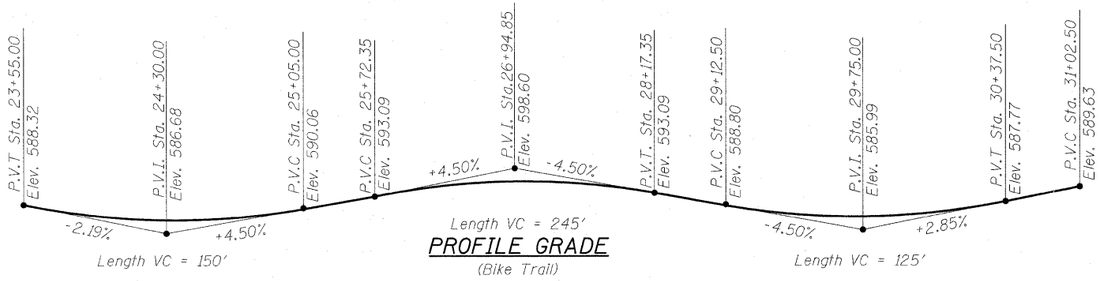
BERNARDINI • LOCHMUELLER & ASSOCIATES, INC.
3 OAK DRIVE
MARYVILLE, ILLINOIS 62062
PHONE (618) 288-4665
FAX (618) 288-4005
Illinois Design Firm Number 184.001670

DESIGNED -	BB	REVISED -	
CHECKED -	ACS	REVISED -	
DRAWN -	WJS	REVISED -	
CHECKED -	CJF	REVISED -	

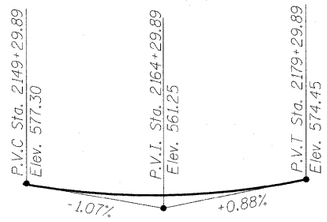
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 46 SHEETS

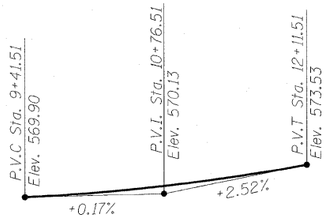
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	370
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



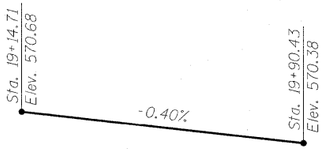
PROFILE GRADE
(Bike Trail)



PROPOSED PROFILE GRADE
(EB & WB F.A.I. 57/70 Route 70)



PROPOSED PROFILE GRADE
(Fayette Avenue - Ramp A)



PROPOSED PROFILE GRADE
(Fayette Avenue - Ramp B)

CURVE DATA (3A-3)
(Bike Trail)

Δ = 30°26'59" (LT)
D = 9°30'12"
T = 164.09'
L = 320.41'
E = 21.93'
R = 602.91'
S.E. = 2.00%
P.C. = Sta. 21+22.92
P.T. = Sta. 24+43.33
P.I. = Sta. 22+87.01
e = 2.0%
S.E. Run 35.50'/42.80'
S.E. Attained:
Sta. 20+99.89 to Sta. 21+35.39
S.E. Removed:
Sta. 24+05.20 to Sta. 24+48.00

CURVE DATA (3A-4)
(Bike Trail)

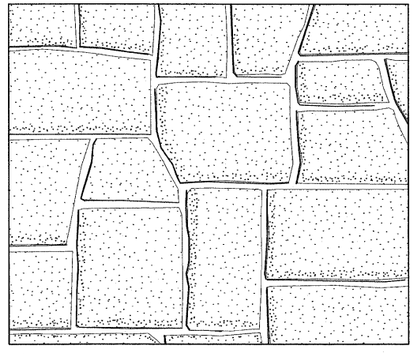
Δ = 66°12'45" (RT)
D = 81°51'04"
T = 45.64'
L = 80.89'
E = 13.57'
R = 70.00'
S.E. = 2.00%
P.C. = Sta. 24+62.85
P.T. = Sta. 25+43.75
P.I. = Sta. 25+08.50
e = 2.0%
S.E. Run 42.80'/27.51'
S.E. Attained:
Sta. 24+48.00 to Sta. 24+90.80
S.E. Removed:
Sta. 25+22.34 to Sta. 25+49.85

CURVE DATA (3-5C)
(Bike Trail)

Δ = 81°59'02" (RT)
D = 114°35'30"
T = 43.45'
L = 71.54'
E = 16.24'
R = 50.00'
S.E. = 2.00%
P.C. = Sta. 28+30.03
P.T. = Sta. 29+01.57
P.I. = Sta. 28+73.48
e = 2.0%
S.E. Run = 11.52'/60.55'
S.E. Attained:
Sta. 28+39.91 to Sta. 28+51+43
S.E. Removed:
Sta. 28+78.30 to Sta. 29+38.85

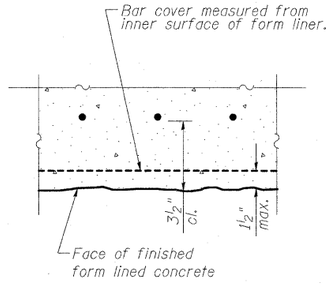
CURVE DATA (3A-6)
(Bike Trail)

Δ = 11°06'19" (LT)
D = 57°17'45"
T = 9.72'
L = 19.38'
E = 0.47'
R = 100.00'
S.E. = 2.00%
P.C. = Sta. 29+83.50
P.T. = Sta. 30+02.88
P.I. = Sta. 29+93.22
e = 2.0%
S.E. Run = 60.55'/72.34'
S.E. Attained:
Sta. 29+38.85 to Sta. 29+99.40
S.E. Removed:
Sta. 30+02.88 to Sta. 30+75.22



PRECAST PANEL & FORM LINER TEXURED SURFACE FINISH DETAILS

Precast Panel Finish shall be Fitted Rock Pattern. The color of the final finish shall be concrete gray. MSE Wall supplier to provide IDOT with a sample panel for approval.



FORM LINER DETAILS SHOWING BAR CLEARANCE REQUIREMENTS

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $\frac{7}{8}$ in. ϕ, holes - $\frac{15}{16}$ in. ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 163,300 Pounds (M270 Grade 50)
7,370 Pounds (M270 Grade 36)

No field welding is permitted except as specified in the contract documents.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.

Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustments shall be made either by grinding the surface or by shimming the bearings.

Concrete Sealer shall be applied to the designated areas of the abutments and pier.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be gray, Munsell No. 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".

Slipforming of parapet is not allowed.

Slipforming of I-57/70 median Barrier Curb on Pier face is not allowed.

All concrete ride surfaces shall receive a brushed finish according to Article 424.06 of the Standard Specifications. The cost for finishing shall be included with PCC Pavement 6" or Concrete Superstructures.

For Section thru abutment see sheets 23, 27 and 32 of 46.

PCC Pavement 6" shall be according to Highway Standard 420601.

PCC Pavement Fabric shall be according to Highway Standard 420701.

The application of Protective Coat shall be excluded from the Portland Cement Pavement 6"

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	MSE Wall	TOTAL
Aggregate Base Course, Type B 8"	Sq. Yd.			319	319
Structure Excavation	Cu. Yd.		66	1820	1886
Protective Coat	Sq. Yd.	668.4		584.9	1253.3
Concrete Structures	Cu. Yd.		110.8	4.2	115.0
Concrete Superstructure	Cu. Yd.	208.6		246.5	455.1
Form Liner Textured Surface	Sq. Ft.	1921	198	1079	3198
Furnishing and Erecting Structural Steel	L. Sum	1			1
Stud Shear Connectors	Each	954			954
Reinforcement Bars, Epoxy Coated	Pound	43,410	13,230	33,060	89,700
Furnishing Steel Piles HP 14x73	Foot		384		384
Driving Piles	Foot		248		248
Test Pile Steel HP 14x73	Each		2		2
Pile Shoes	Each		10		10
Name Plates	Each	1			1
Preformed Joint Strip Seal	Foot	30			30
Elastomeric Bearing Assembly, Type I	Each	6			6
Anchor Bolts, 1"	Each	18			18
Concrete Sealer	Sq. Ft.		1109		1109
Pipe Drains 6"	Foot			304	304
Bar Splicers	Each		46		46
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.			9175	9175
Bridge Fence Railing (Special)	Foot	520			520
Ornamental Fence	Foot			501	501
Setting Piles in Rock	Each		8		8
Mechanical Splicers	Each		112		112
Slope Wall 4 Inch	Sq. Yd.			14	14
Portland Cement Concrete Pavement 6"	Sq. Yd.			319	319
Pavement Fabric	Sq. Yd.			319	319
Frame and Grate, Type 20	Each			7	7

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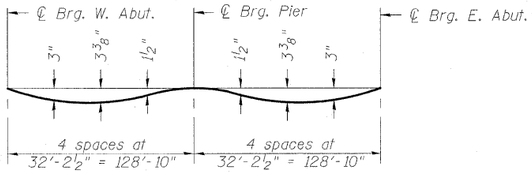
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NUMBER 025-6010
SHEET NO. 2 OF 46 SHEETS

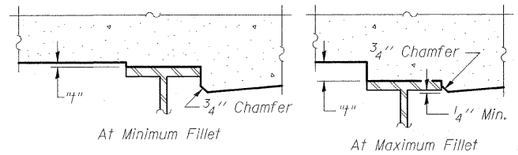
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	371
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



DEAD LOAD DEFLECTION DIAGRAM

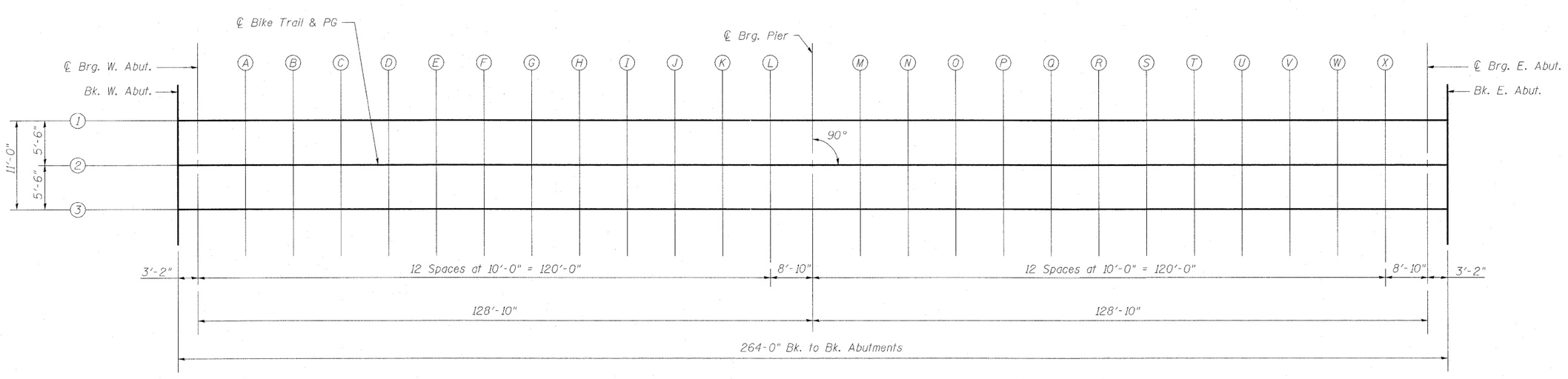
(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the Engineer is working from the theoretical grade elevations adjusted for dead load deflections as shown on sheet 4 of 46.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals as shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 4 of 46, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

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FILE NAME = _\0774299-025601O-sht003.dgn	USER NAME =	DESIGNED - BB	REVISED -
	Illinois Design Firm Number 184.001670	CHECKED - ACS	REVISED -
	PLOT SCALE =	DRAWN - WJS	REVISED -
	PLOT DATE = 7:39:9 AM 5/6/2011	CHECKED - CJF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NUMBER 025-6010
SHEET NO. 3 OF 46 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	372
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

GIRDER 1

Location	Station	Offset From ℄ Bike Trail	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of West Abut.	25+62.85	-5.50	592.55	592.55
℄ Bearing West Abut.	25+66.02	-5.50	592.69	592.69
A	25+76.02	-5.50	593.14	593.21
B	25+86.02	-5.50	593.56	593.71
C	25+96.02	-5.50	593.94	594.16
D	26+06.02	-5.50	594.28	594.53
E	26+16.02	-5.50	594.59	594.85
F	26+26.02	-5.50	594.86	595.14
G	26+36.02	-5.50	595.10	595.35
H	26+46.02	-5.50	595.29	595.50
I	26+56.02	-5.50	595.46	595.61
J	26+66.02	-5.50	595.58	595.69
K	26+76.02	-5.50	595.67	595.74
L	26+86.02	-5.50	595.72	595.75
℄ Bearing Pier	26+94.85	-5.50	595.73	595.73
M	27+04.85	-5.50	595.71	595.75
N	27+14.85	-5.50	595.66	595.73
O	27+24.85	-5.50	595.57	595.68
P	27+34.85	-5.50	595.44	595.60
Q	27+44.85	-5.50	595.27	595.48
R	27+54.85	-5.50	595.07	595.33
S	27+64.85	-5.50	594.83	595.10
T	27+74.85	-5.50	594.56	594.82
U	27+84.85	-5.50	594.24	594.49
V	27+94.85	-5.50	593.90	594.11
W	28+04.85	-5.50	593.51	593.65
X	28+14.85	-5.50	593.09	593.15
℄ Bearing East Abut.	28+23.68	-5.50	592.69	592.69
Back of East Abut.	28+26.85	-5.50	592.55	592.55

℄ BIKE TRAIL, PROFILE GRADE & GIRDER 2

Location	Station	Offset From ℄ Bike Trail	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of West Abut.	25+62.85	0.00	592.66	592.66
℄ Bearing West Abut.	25+66.02	0.00	592.81	592.81
A	25+76.02	0.00	593.25	593.33
B	25+86.02	0.00	593.67	593.82
C	25+96.02	0.00	594.05	594.28
D	26+06.02	0.00	594.40	594.65
E	26+16.02	0.00	594.71	594.97
F	26+26.02	0.00	594.98	595.25
G	26+36.02	0.00	595.21	595.46
H	26+46.02	0.00	595.41	595.61
I	26+56.02	0.00	595.57	595.72
J	26+66.02	0.00	595.69	595.80
K	26+76.02	0.00	595.78	595.85
L	26+86.02	0.00	595.83	595.87
℄ Bearing Pier	26+94.85	0.00	595.85	595.85
M	27+04.85	0.00	595.83	595.87
N	27+14.85	0.00	595.77	595.85
O	27+24.85	0.00	595.68	595.80
P	27+34.85	0.00	595.55	595.71
Q	27+44.85	0.00	595.39	595.60
R	27+54.85	0.00	595.19	595.44
S	27+64.85	0.00	594.95	595.22
T	27+74.85	0.00	594.67	594.93
U	27+84.85	0.00	594.36	594.61
V	27+94.85	0.00	594.01	594.22
W	28+04.85	0.00	593.62	593.76
X	28+14.85	0.00	593.20	593.27
℄ Bearing East Abut.	28+23.68	0.00	592.81	592.81
Back of East Abut.	28+26.85	0.00	592.66	592.66

GIRDER 3

Location	Station	Offset From ℄ Bike Trail	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of West Abut.	25+62.85	5.50	592.55	592.55
℄ Bearing West Abut.	25+66.02	5.50	592.69	592.69
A	25+76.02	5.50	593.14	593.21
B	25+86.02	5.50	593.56	593.71
C	25+96.02	5.50	593.94	594.16
D	26+06.02	5.50	594.28	594.53
E	26+16.02	5.50	594.59	594.85
F	26+26.02	5.50	594.86	595.14
G	26+36.02	5.50	595.10	595.35
H	26+46.02	5.50	595.29	595.50
I	26+56.02	5.50	595.46	595.61
J	26+66.02	5.50	595.58	595.69
K	26+76.02	5.50	595.67	595.74
L	26+86.02	5.50	595.72	595.75
℄ Bearing Pier	26+94.85	5.50	595.73	595.73
M	27+04.85	5.50	595.71	595.75
N	27+14.85	5.50	595.66	595.73
O	27+24.85	5.50	595.57	595.68
P	27+34.85	5.50	595.44	595.60
Q	27+44.85	5.50	595.27	595.48
R	27+54.85	5.50	595.07	595.33
S	27+64.85	5.50	594.83	595.10
T	27+74.85	5.50	594.56	594.82
U	27+84.85	5.50	594.24	594.49
V	27+94.85	5.50	593.90	594.11
W	28+04.85	5.50	593.51	593.65
X	28+14.85	5.50	593.09	593.15
℄ Bearing East Abut.	28+23.68	5.50	592.69	592.69
Back of East Abut.	28+26.85	5.50	592.55	592.55

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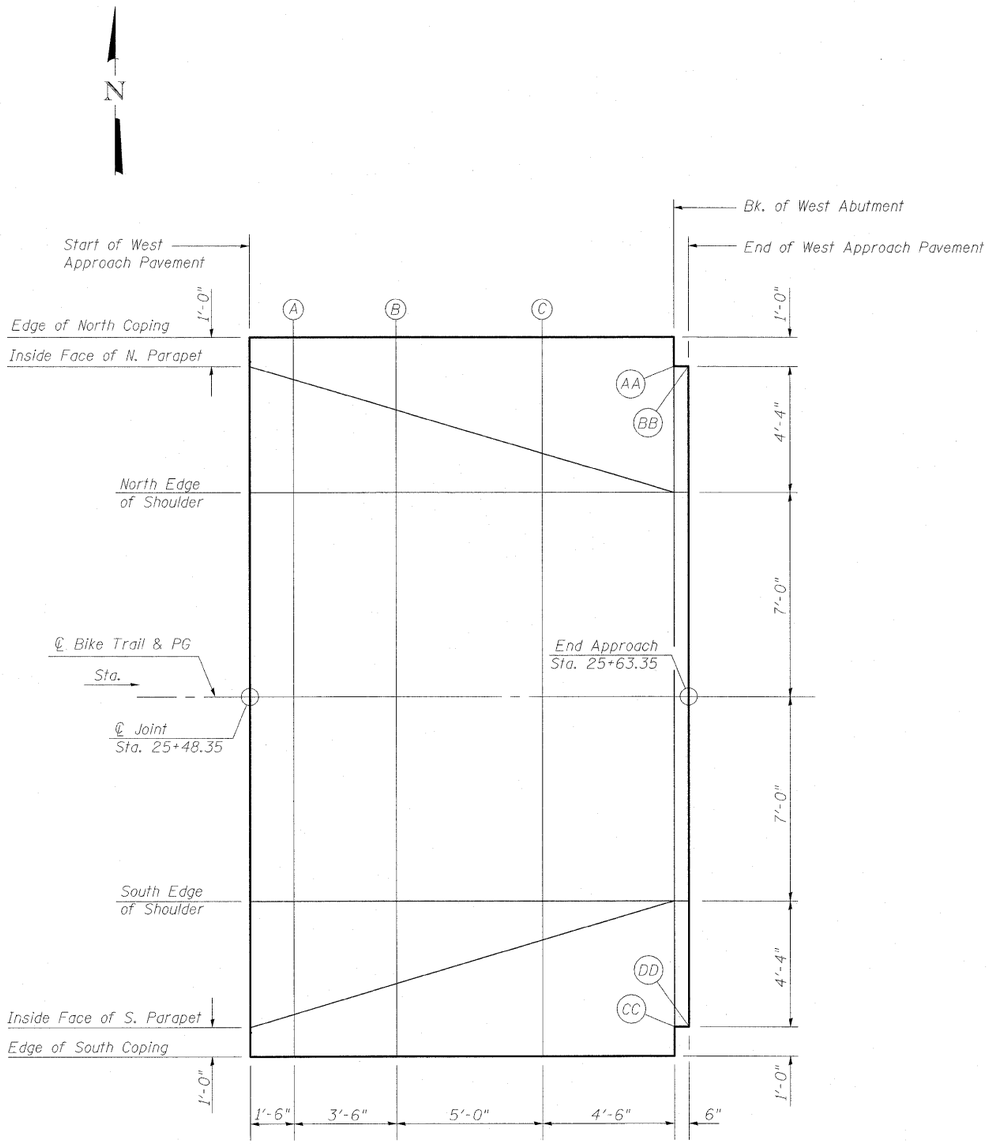
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NUMBER 025-6010
SHEET NO. 4 OF 46 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	373
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



PLAN WEST APPROACH SLAB

Note: Line A is located at the end of the Superelevation Transition.

EDGE OF NORTH COPING

Location	Station	Offset	Theoretical Grade Elevations
Start of West Approach	25+48.35	-12.33	591.79
A	25+49.85	-12.33	591.83
B	25+53.35	-12.33	591.99
C	25+58.35	-12.33	592.21
Back of West Abutment	25+62.85	-12.33	592.41

INSIDE FACE OF NORTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations
Start of West Approach	25+48.35	-11.33	591.81
A	25+49.85	-10.89	591.86
B	25+53.35	-9.84	592.04
C	25+58.35	-8.34	592.29
Back of West Abutment	25+62.85	-7.00	592.52
End of West Approach	25+63.35	-7.00	592.54

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Start of West Approach	25+48.35	-7.00	591.88
A	25+49.85	-7.00	591.94
B	25+53.35	-7.00	592.09
C	25+58.35	-7.00	592.32
Back of West Abutment	25+62.85	-7.00	592.52
End of West Approach	25+63.35	-7.00	592.54

℄ BIKE TRAIL & PG

Location	Station	Offset	Theoretical Grade Elevations
Start of West Approach	25+48.35	0.00	592.01
A	25+49.85	0.00	592.08
B	25+53.35	0.00	592.23
C	25+58.35	0.00	592.46
Back of West Abutment	25+62.85	0.00	592.66
End of West Approach	25+63.35	0.00	592.68

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Start of West Approach	25+48.35	7.00	591.87
A	25+49.85	7.00	591.94
B	25+53.35	7.00	592.09
C	25+58.35	7.00	592.32
Back of West Abutment	25+62.85	7.00	592.52
End of West Approach	25+63.35	7.00	592.54

INSIDE FACE OF SOUTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations
Start of West Approach	25+48.35	11.33	591.78
A	25+49.85	10.89	591.86
B	25+53.35	9.84	592.04
C	25+58.35	8.34	592.29
Back of West Abutment	25+62.85	7.00	592.52
End of West Approach	25+63.35	7.00	592.54

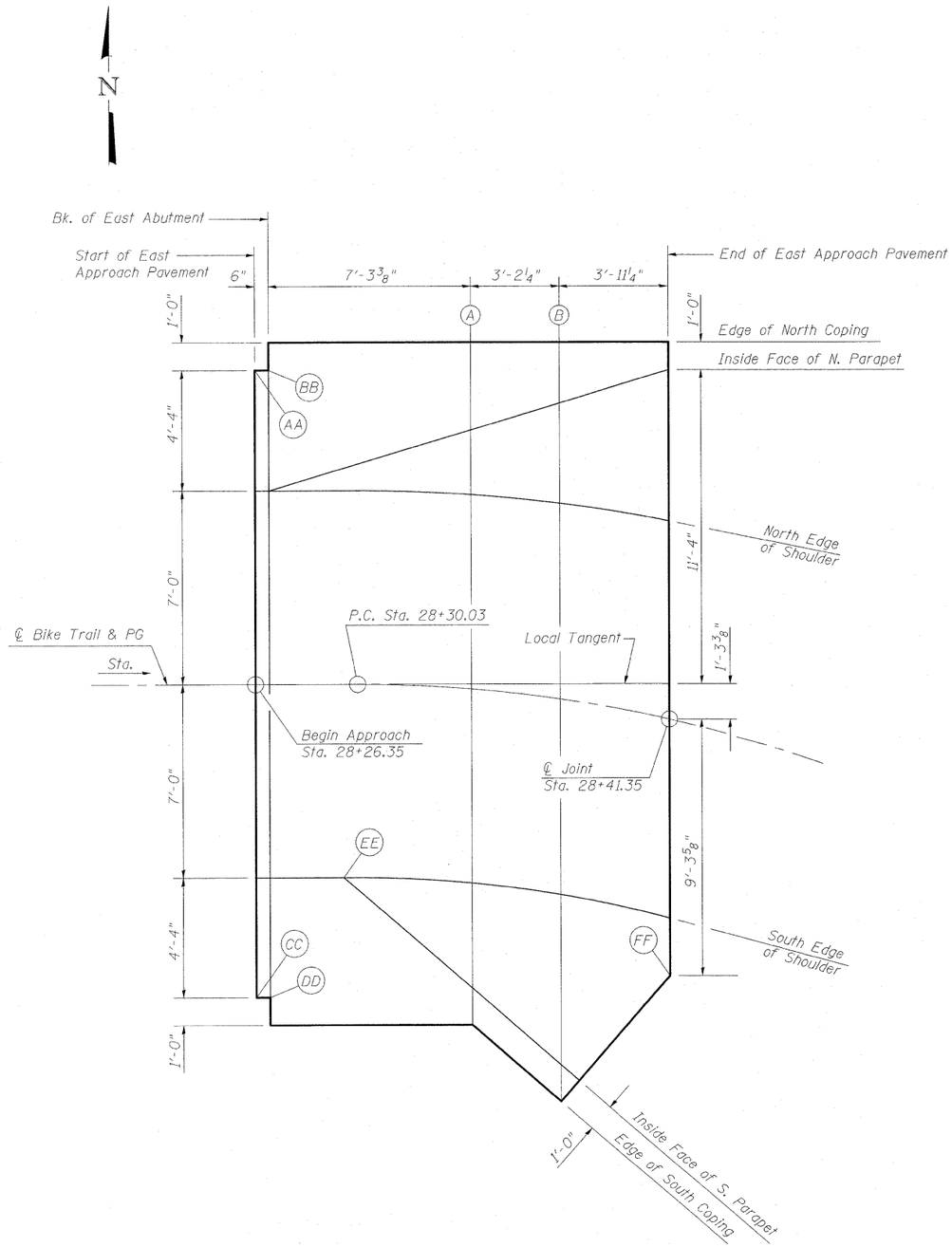
EDGE OF SOUTH COPING

Location	Station	Offset	Theoretical Grade Elevations
Start of West Approach	25+48.35	12.33	591.76
A	25+49.85	12.33	591.83
B	25+53.35	12.33	591.99
C	25+58.35	12.33	592.21
Back of West Abutment	25+62.85	12.33	592.41

ADDITIONAL ELEVATIONS

Location	Station	Offset	Theoretical Grade Elevations
AA	25+62.85	-11.33	592.43
BB	25+63.35	-11.33	592.46
CC	25+62.85	11.33	592.43
DD	25+63.35	11.33	592.46

Notes:
See sheet 2 of 46 for Bike Trail Curve Data.
Offsets measured from ℄ Bike Trail.



PLAN EAST APPROACH SLAB

EDGE OF NORTH COPING

Location	Station	Offset	Theoretical Grade Elevations
Back of East Abutment	28+26.85	-12.33	592.41
A	28+33.32	-12.47	592.12
B	28+35.85	-12.76	592.00
End of East Approach	28+38.94	-13.34	591.85

INSIDE FACE OF NORTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations
Start of East Approach	28+26.35	-7.00	592.54
Back of East Abutment	28+26.85	-7.00	592.52
A	28+33.49	-9.33	592.17
B	28+36.06	-10.59	592.03
End of East Approach	28+39.08	-12.35	591.86

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Start of East Approach	28+26.35	-7.00	592.54
Back of East Abutment	28+26.85	-7.00	592.52
A	28+33.63	-7.00	592.21
B	28+36.44	-7.00	592.09
End of East Approach	28+39.94	-7.00	591.93

℄ BIKE TRAIL & PG

Location	Station	Offset	Theoretical Grade Elevations
Start of East Approach	28+26.35	0.00	592.68
Back of East Abutment	28+26.85	0.00	592.66
A	28+34.14	0.00	592.33
B	28+37.35	0.00	592.19
End of East Approach	28+41.35	0.00	592.01

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Start of East Approach	28+26.35	7.00	592.54
Back of East Abutment	28+26.85	7.00	592.52
A	28+34.81	7.00	592.16
B	28+39.96	7.00	591.93
End of East Approach	28+43.24	7.00	591.78

INSIDE FACE OF SOUTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations
Start of East Approach	28+26.35	7.00	592.54
Back of East Abutment	28+26.85	7.00	592.52
A	28+35.27	10.79	592.07
B	28+40.05	13.05	591.81
End of East Approach	28+41.00	13.47	591.75

EDGE OF SOUTH COPING

Location	Station	Offset	Theoretical Grade Elevations
Back of East Abutment	28+26.85	12.33	592.41
A	28+35.46	12.11	592.03
B & End of East Approach	28+40.33	14.34	591.77

ADDITIONAL ELEVATIONS

Location	Station	Offset	Theoretical Grade Elevations
AA	28+26.35	-11.33	592.46
BB	28+26.85	-11.33	592.43
CC	28+26.35	11.33	592.46
DD	28+26.85	11.33	592.43
EE	28+29.52	7.00	592.40
FF	28+43.90	9.01	591.71

Notes:
See sheet 2 of 46 for Bike Trail Curve Data.
Offsets measured from ℄ Bike Trail.

FILE NAME = ...\DT74299-025601O-sht006.dgn
USER NAME =
Illinois Design Firm Number 184.001670
PLOT SCALE =
PLOT DATE = 7:40:52 AM 5/6/2011

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DRAWN - WJS | REVISED -
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BERNARDIN • LOCHMUELLER & ASSOCIATES, INC.
3 OAK DRIVE
MARYVILLE, ILLINOIS 62062
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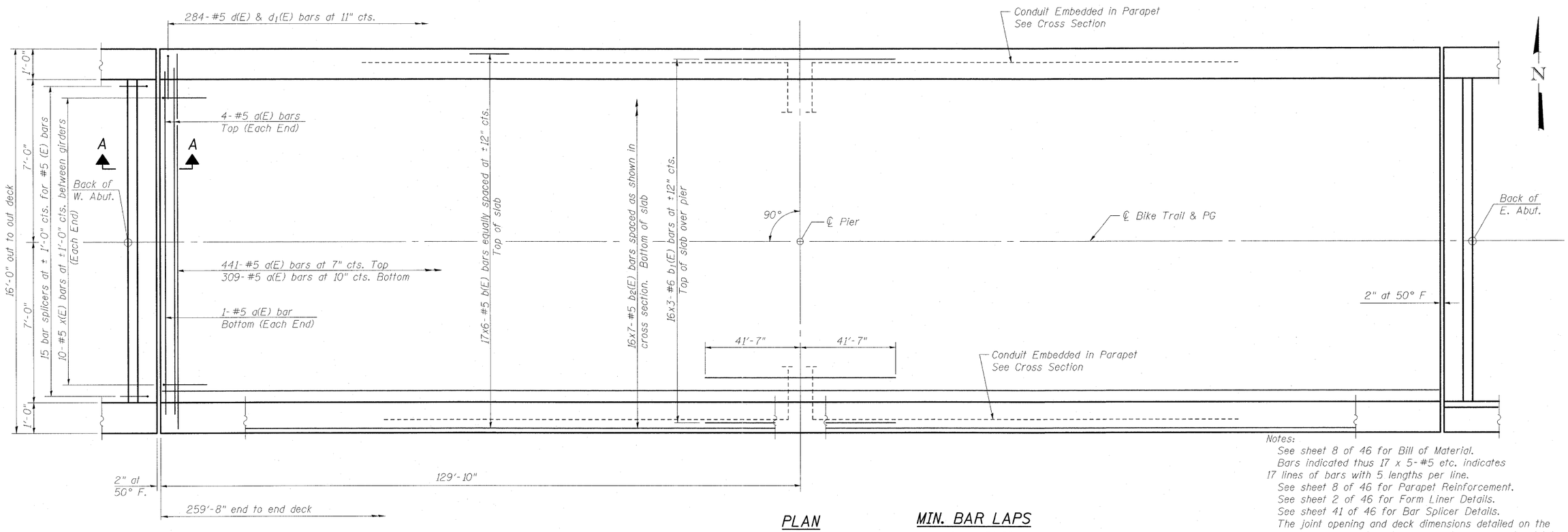
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB ELEVATIONS
STRUCTURE NUMBER 025-6010
SHEET NO. 6 OF 46 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	375
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

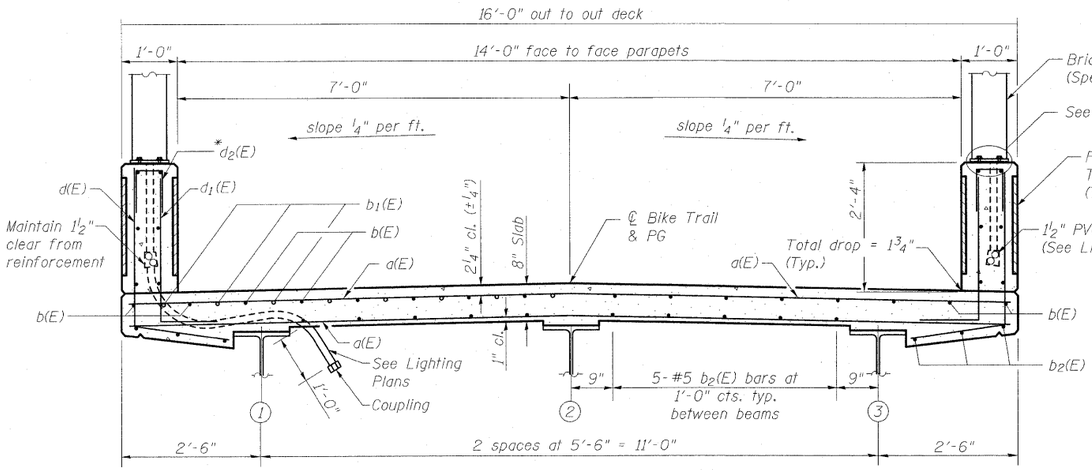


PLAN

MIN. BAR LAPS

#5 bar = 2'-6"
#6 bar = 3'-0"

Notes:
See sheet 8 of 46 for Bill of Material.
Bars indicated thus 17 x 5-#5 etc. indicates 17 lines of bars with 5 lengths per line.
See sheet 8 of 46 for Parapet Reinforcement.
See sheet 2 of 46 for Form Liner Details.
See sheet 41 of 46 for Bar Splicer Details.
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

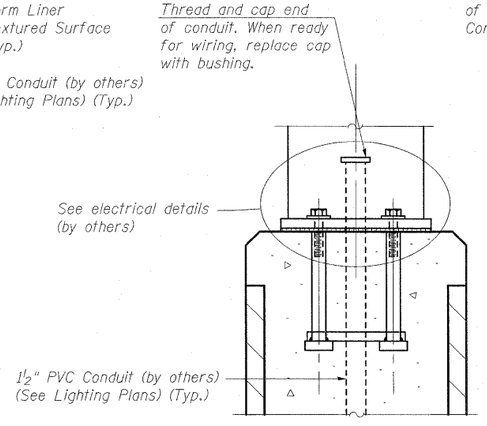


NEAR PIER NEAR MIDSPAN

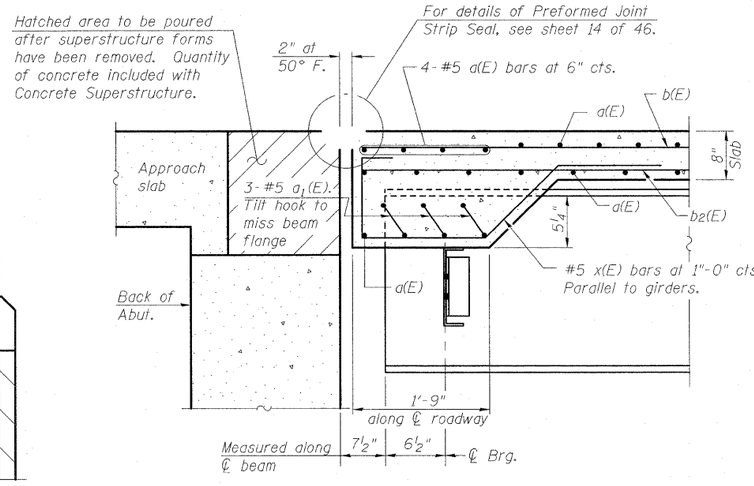
CROSS SECTION

(Looking East)

*Place 2-d_2(E) bars at each Bridge Fence Railing (Special) Post.



LIGHT POLE DETAIL



SECTION A-A

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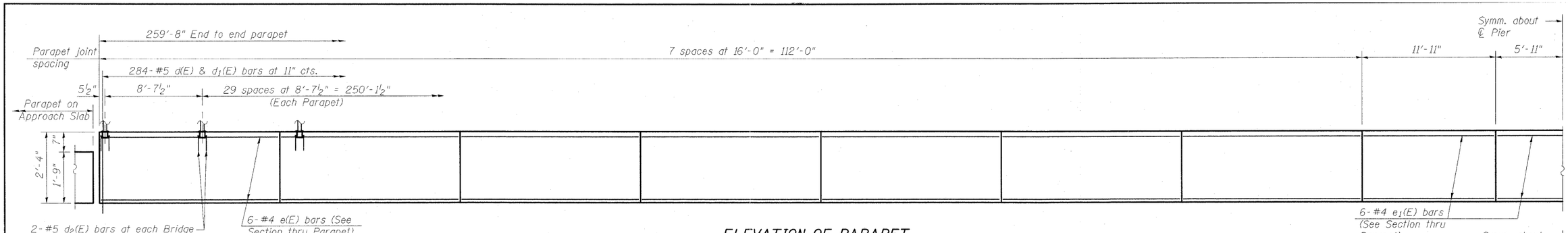
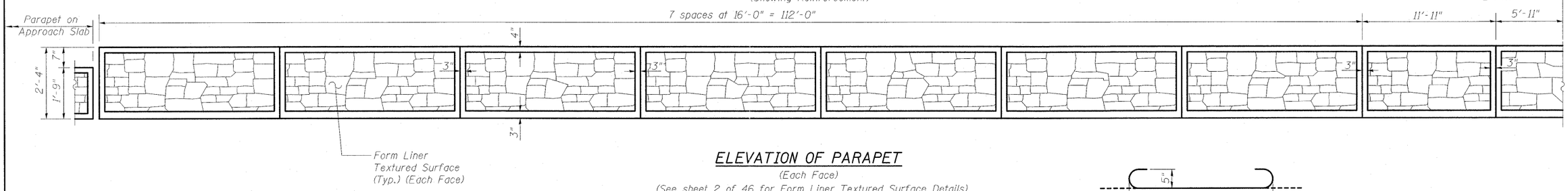
BERNARDIN • LOCHMUELLER & ASSOCIATES, INC. 3 OAK DRIVE MARYVILLE, ILLINOIS 62062 PHONE (618) 288-4660 FAX (618) 288-4066	Illinois Design Firm Number 184.001670	CHECKED - ACS	REVISED -		SHEET NO. 7 OF 46 SHEETS
	PLOT SCALE =	DRAWN - WJS	REVISED -		
	PLOT DATE = 7:41:05 AM 5/6/2011	CHECKED - CJF	REVISED -		

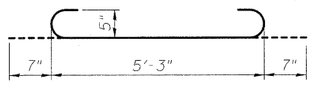
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	376
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



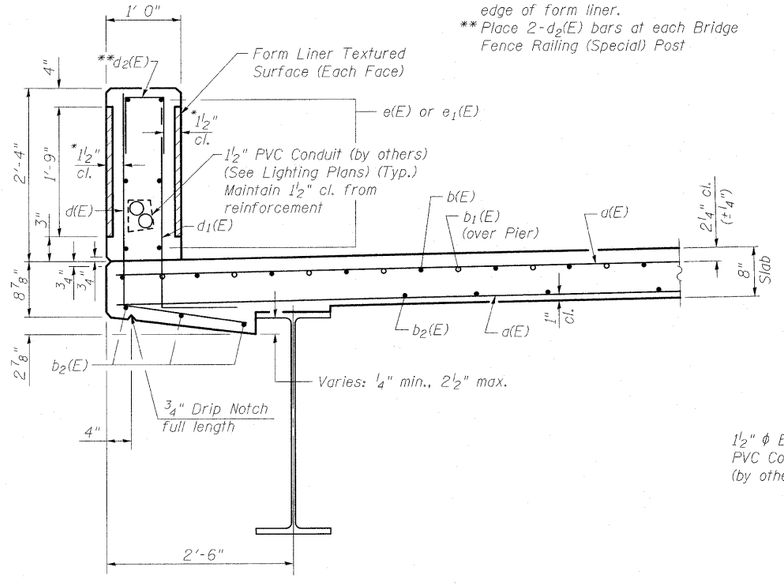
ELEVATION OF PARAPET
(Showing Reinforcement)



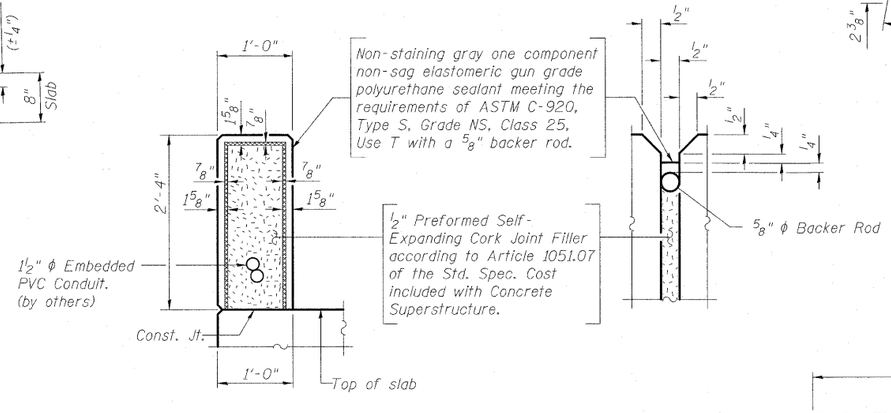
ELEVATION OF PARAPET
(Each Face)
(See sheet 2 of 46 for Form Liner Textured Surface Details)



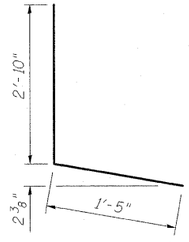
d1(E) BAR



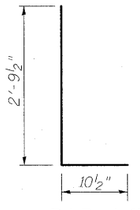
SECTION THRU PARAPET



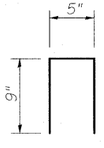
PARAPET JOINT DETAILS



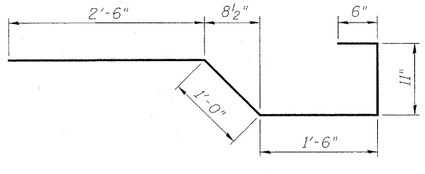
BAR d(E)



BAR d1(E)



BAR d2(E)



BAR x(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	760	#5	15'-9"	
a1(E)	12	#5	6'-5"	
b(E)	102	#5	45'-4"	
b1(E)	48	#6	29'-9"	
b2(E)	112	#5	39'-3"	
d(E)	568	#5	4'-3"	
d1(E)	568	#5	3'-8"	
d2(E)	128	#5	1'-11"	
e(E)	168	#4	15'-9"	
e1(E)	36	#4	11'-8"	
x(E)	20	#5	6'-5"	
Reinforcement Bars, Epoxy Coated			Pound	31,250
Concrete Superstructure			Cu. Yds.	165.4
Form Liner Textured Surface			Sq. Ft.	1762

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PLOT SCALE =
PLOT DATE = 7:41:18 AM 5/6/2011
DESIGNED - BB
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CHECKED - CJF
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REVISED -
REVISED -
REVISED -
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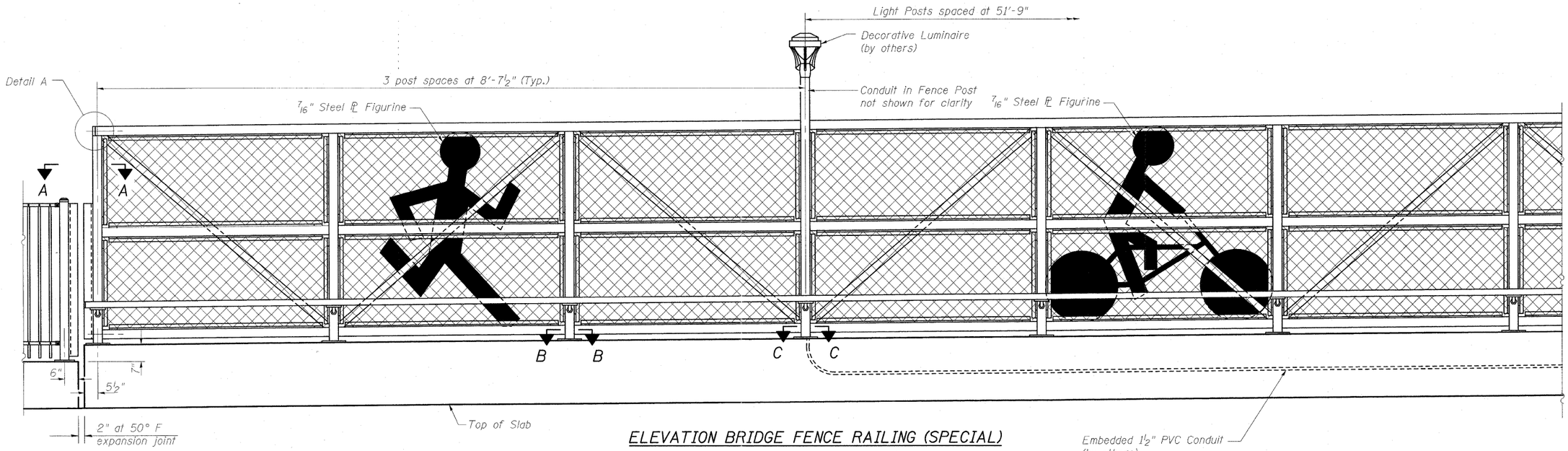
FAX (618) 288-4665

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

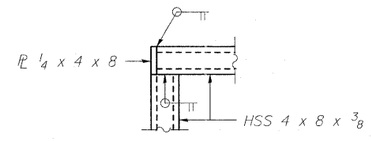
SUPERSTRUCTURE DETAILS
STRUCTURE NUMBER 025-6010
SHEET NO. 8 OF 46 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	377
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

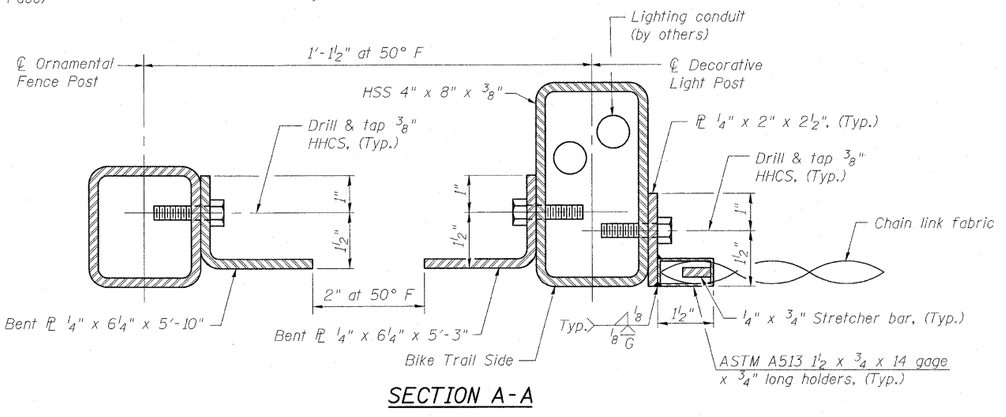


ELEVATION BRIDGE FENCE RAILING (SPECIAL)

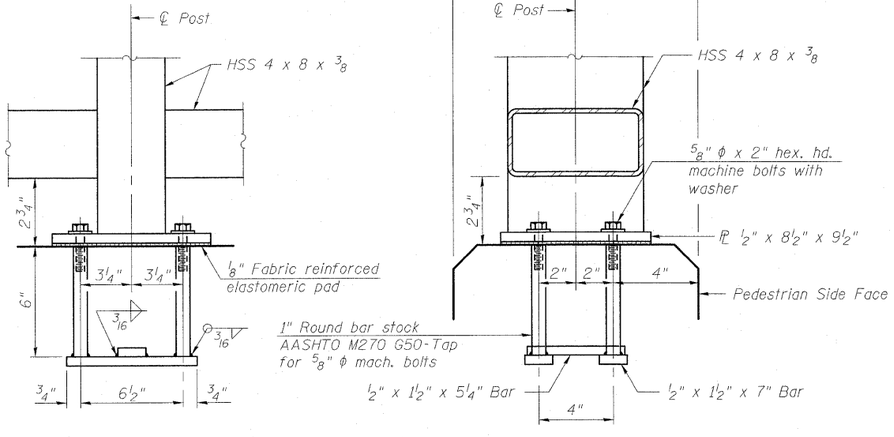
(Showing Petestrian Side Face)



DETAIL A

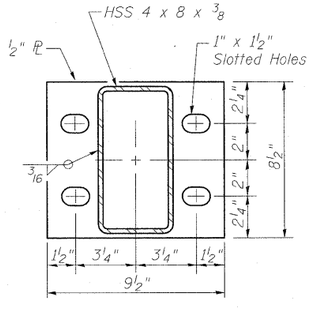


SECTION A-A



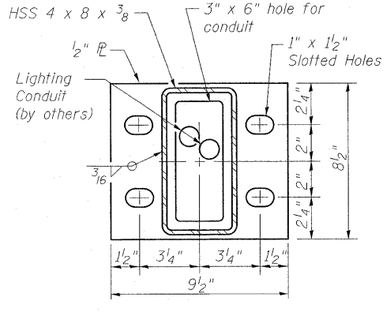
ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



SECTION B-B

(Fence Post)



SECTION C-C

(Light Post)

Note:

For location of all light posts and figurine placement/orientation elevation view see sheet 1 of 46.

For additional connection and hand rail details see sheet 10 of 46.

For figurine dimensions and connection details see sheets 11. 12 and 13 of 46.

See special provision, Bridge Fence Railing (Special) for additional requirements.

The cost for figurines is included with Bridge Fence Railing (Special).

BILL OF MATERIAL

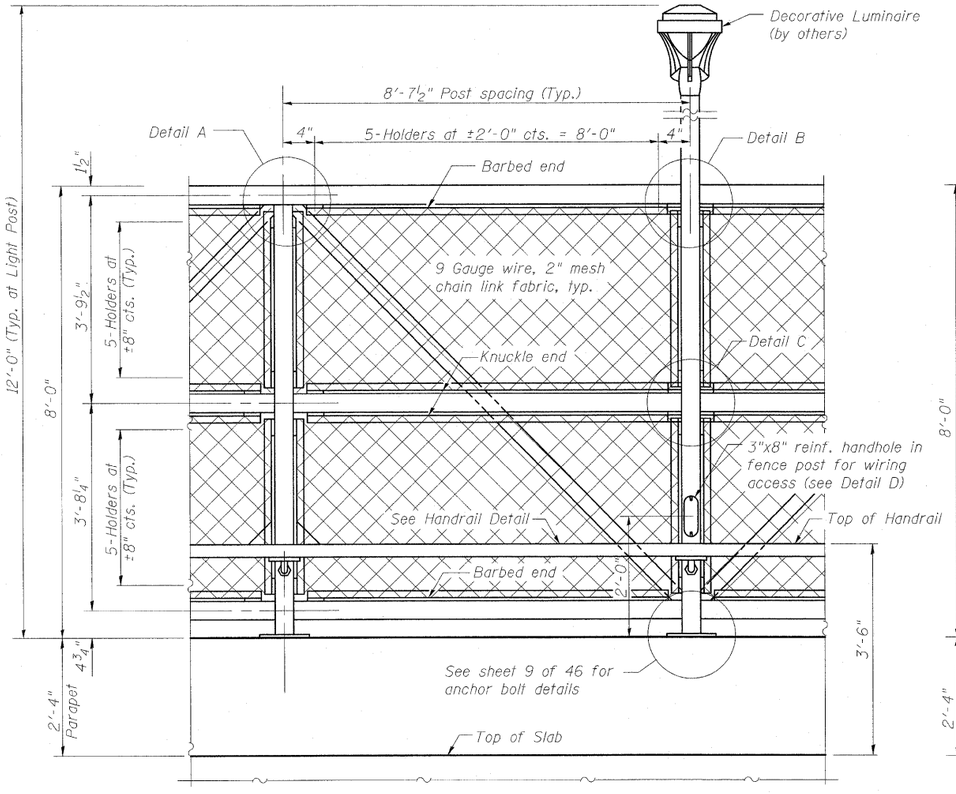
Item	Unit	Quantity
Bridge Fence Railing (Special)	Foot	520

FILE NAME = ...\D774299-025601O-sht009.dgn	USER NAME =	DESIGNED - BB	REVISED -
BERNARDIN • LOCHMUELLER & ASSOCIATES, INC. 3 OAK DRIVE MARYVILLE, ILLINOIS 62062 PHONE (618) 288-4665 FAX (618) 288-4665	Illinois Design Firm Number 184.001670	CHECKED - ACS	REVISED -
	PLOT SCALE =	DRAWN - WJS	REVISED -
	PLOT DATE = 7:41:31 AM 5/6/2011	CHECKED - CJF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

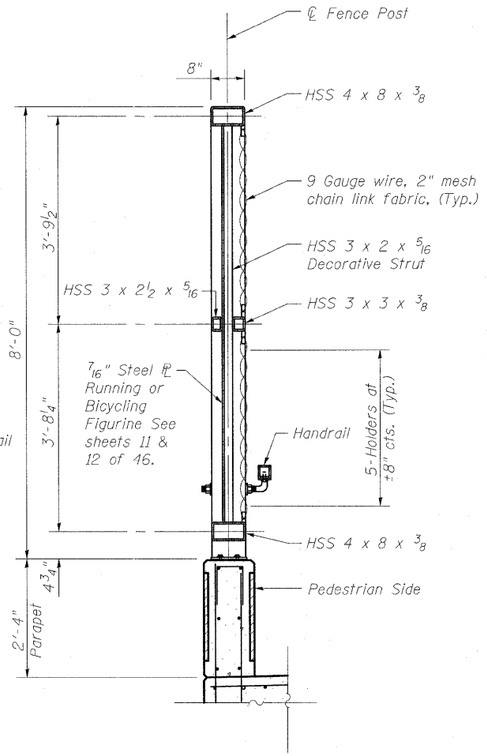
BRIDGE FENCE RAILING (SPECIAL)
STRUCTURE NUMBER 025-6010
SHEET NO. 9 OF 46 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	378
	SN 025-6010	CONTRACT NO. 74299		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	

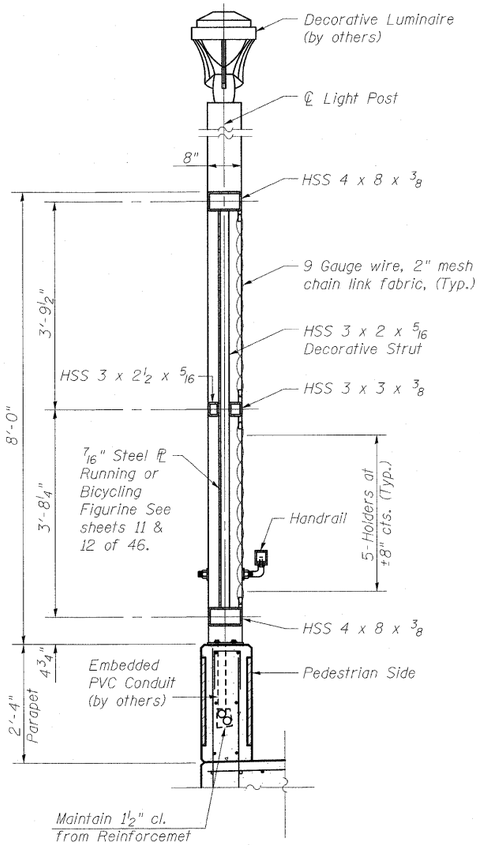


ELEVATION VIEW

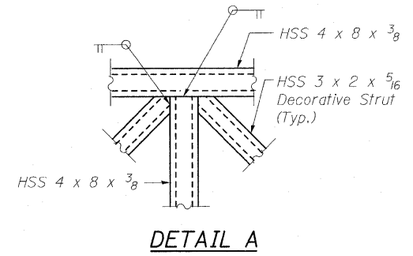
(Showing Petestrian Side Face)



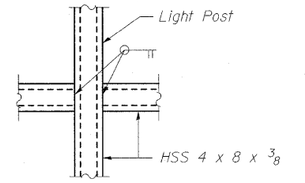
SECTION THRU FENCE AT FENCE POST



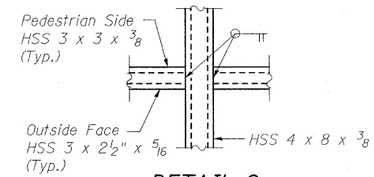
SECTION THRU FENCE AT LIGHT POST



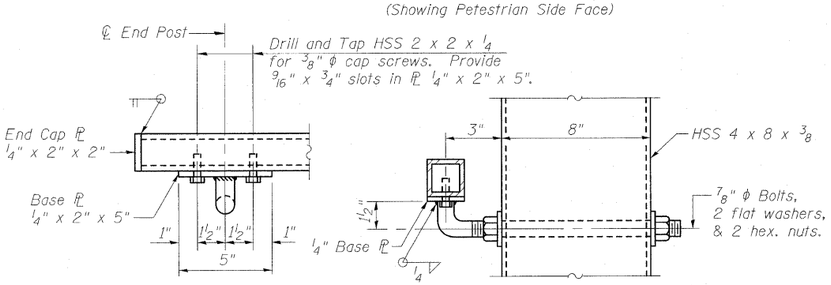
DETAIL A



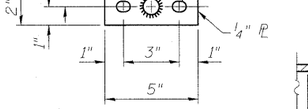
DETAIL B



DETAIL C

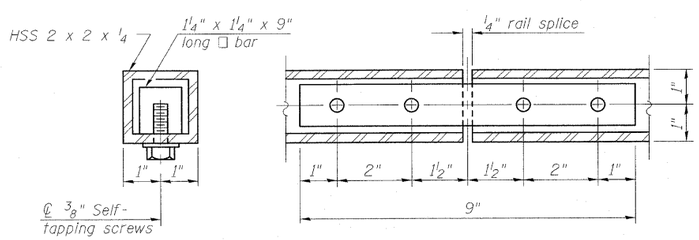


HANDRAIL DETAIL

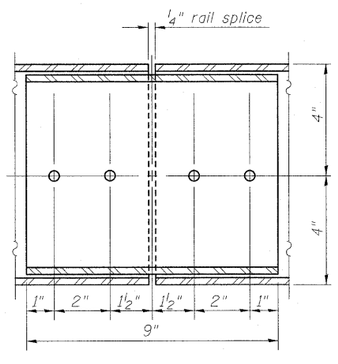


BASE ℄

(Handrail)

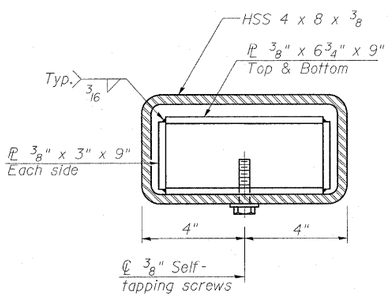


HANDRAIL SPLICE

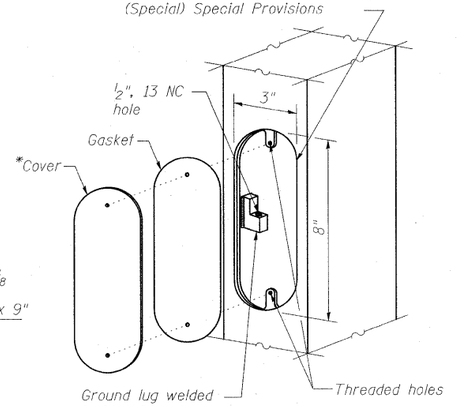


RAIL SPLICE

* Cover shall be fastened to the frame utilizing flat, tamper resistant stainless steel pin-head drive screws coated with anti-seize compound.



Handhole shall be reinforced according to Bridge Fence Railing (Special) Special Provisions



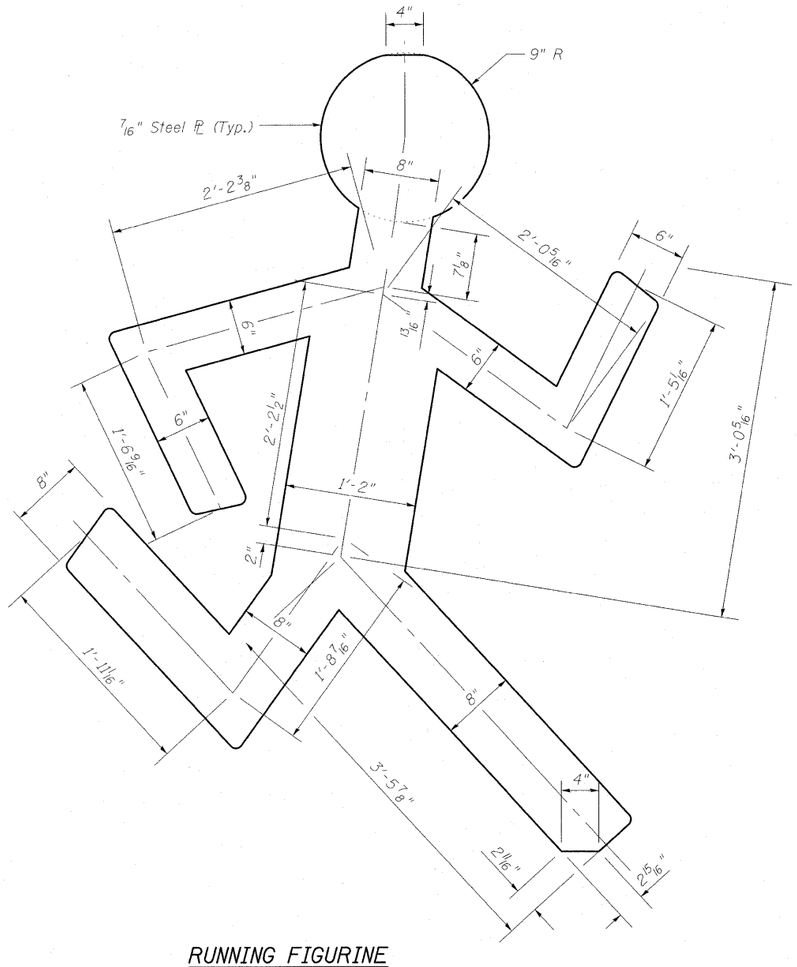
DETAIL D

(Showing Reinf. Handhole)

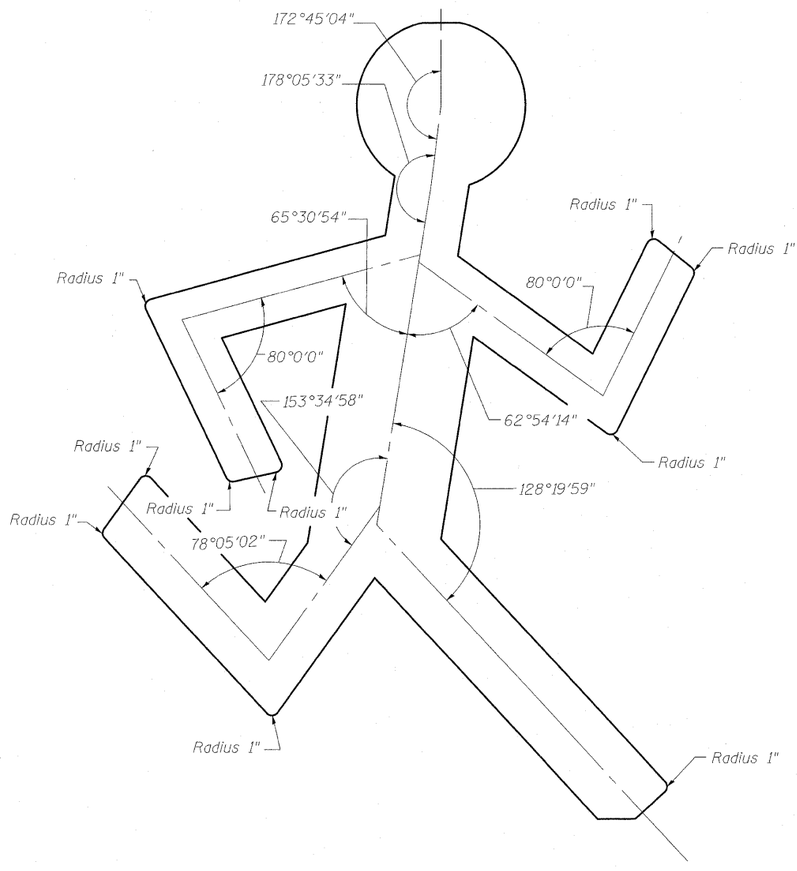
Note:
See sheet 1 of 46 Elevation View and 9 of 46 for general Bridge Fence Railing (Special) Layout.
For galvanizing and painting information see special provisions for Bridge Fence Railing (Special).

FILE NAME = _\D774299-0256010-sht010.dgn	USER NAME =	DESIGNED - BB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE FENCE RAILING (SPECIAL) STRUCTURE NUMBER 025-6010
BERNARDINI LOCHMUELLER & ASSOCIATES, INC. 3 OAK DRIVE MARYVILLE, ILLINOIS 62062 PHONE (618) 288-4655 FAX (618) 288-4686	Illinois Design Firm Number 184.001670	CHECKED - ACS	REVISED -		SHEET NO. 10 OF 46 SHEETS
	PLOT SCALE =	DRAWN - WJS	REVISED -		
	PLOT DATE = 7:41:45 AM 5/6/2011	CHECKED - CJF	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	379
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



RUNNING FIGURINE
(showing dimensions)



RUNNING FIGURINE
(showing angles)

Note:
See sheet 13 of 46 for attachment details.

FILE NAME = ...\D774299-025601O-sht01.dgn	USER NAME =	DESIGNED - BB	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE FENCE RAILING (SPECIAL) RUNNING FIGURINE STRUCTURE NUMBER 025-6010**
BERNARDIN • LOCHMUELLER & ASSOCIATES, INC. 3 OAK DRIVE MARYVILLE, ILLINOIS 62062 PHONE (618) 288-4686 FAX (618) 288-4686	Illinois Design Firm Number 184.001670	CHECKED - ACS	REVISED -		SHEET NO. 11 OF 46 SHEETS
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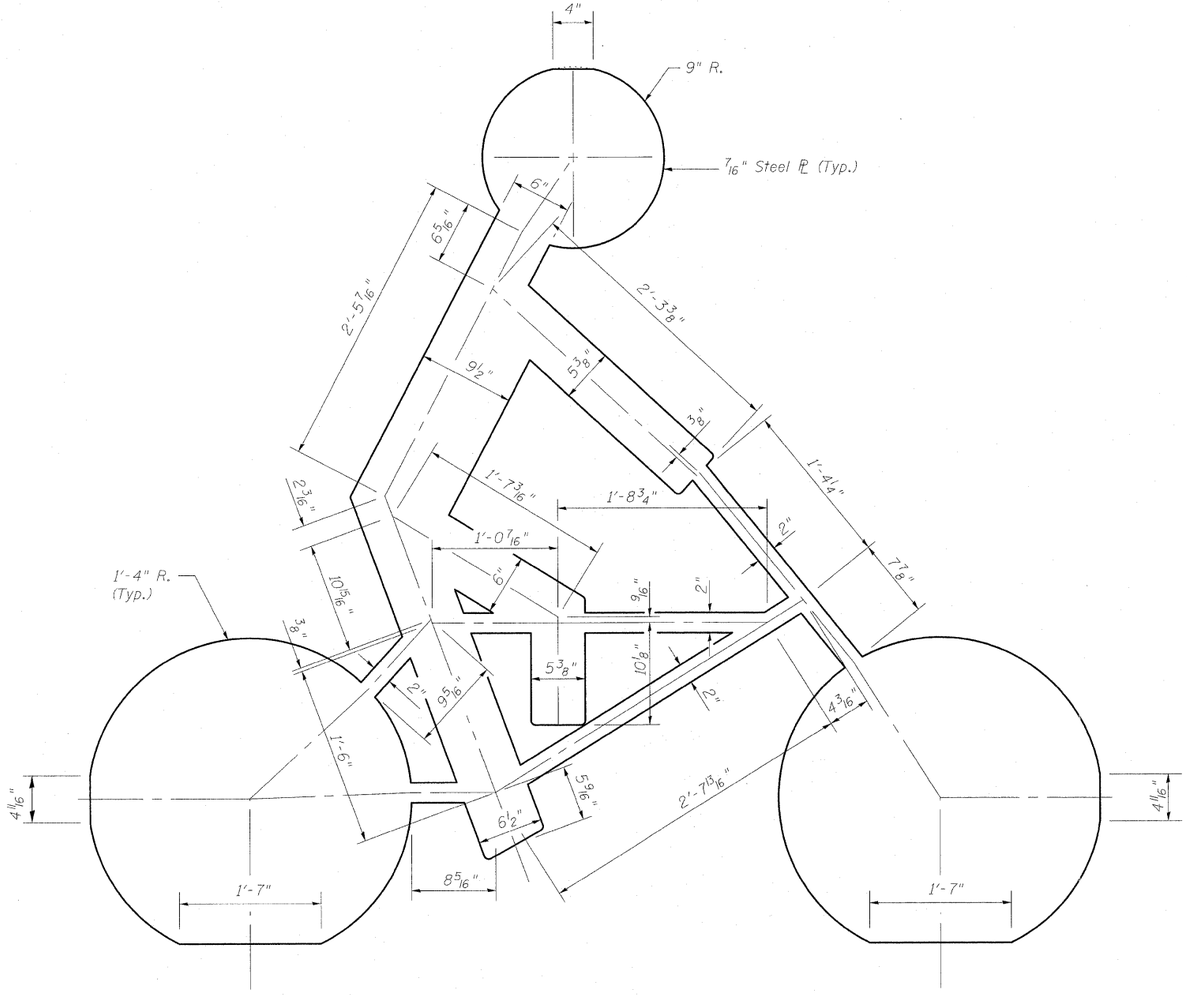
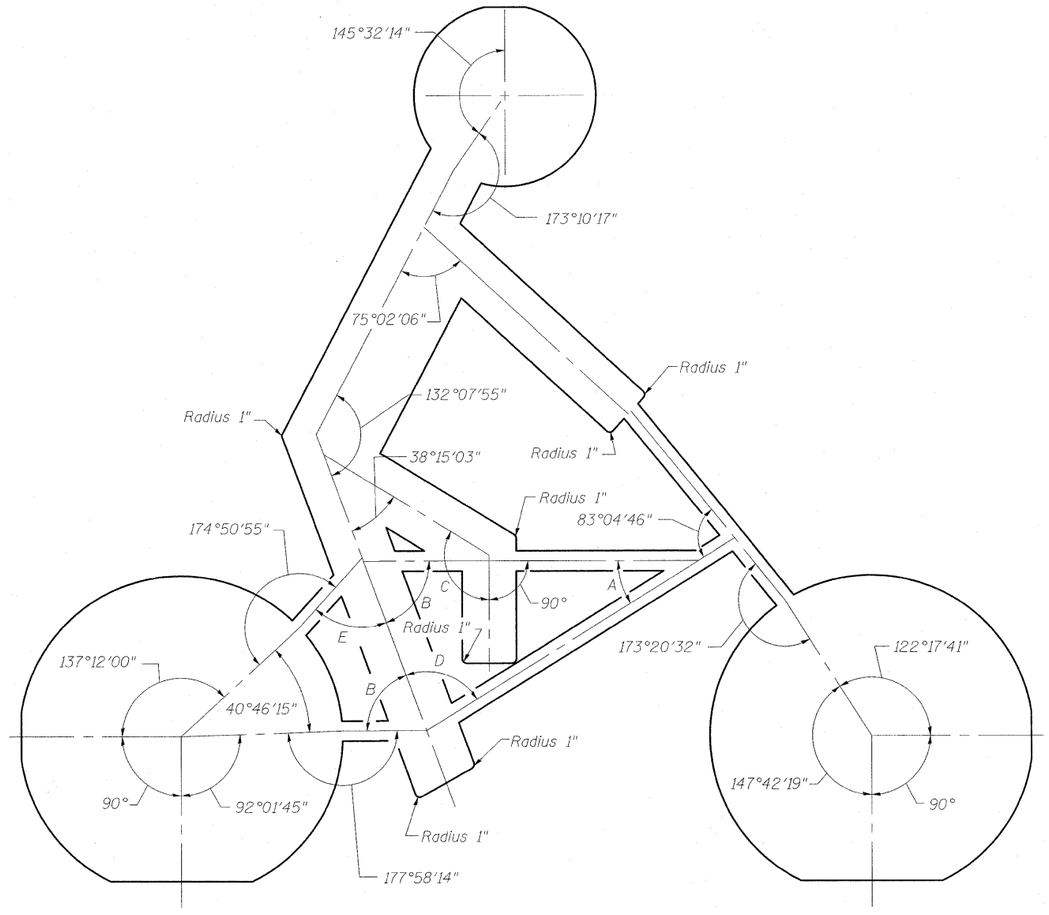
	PLOT DATE = 7:41:59 AM 5/6/2011	CHECKED - CJF	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	380
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



BICYCLING FIGURINE

(showing dimensions)



BICYCLING FIGURINE

(showing angles)

ANGLES

A 32°01'54"
B 69°45'59"
C 121°30'56"
D 72°12'06"
E 62°16'56"

Note:
See sheet 13 of 46 for attachment details.

BERNARDIN • LOCHMUELLER & ASSOCIATES, INC.
3 OAK DRIVE
MARYVILLE, ILLINOIS 62062
PHONE (618) 288-4665
FAX (618) 288-4066

FILE NAME = ...\D774299-025601O-sht012.dgn	USER NAME =	DESIGNED - BB	REVISED -
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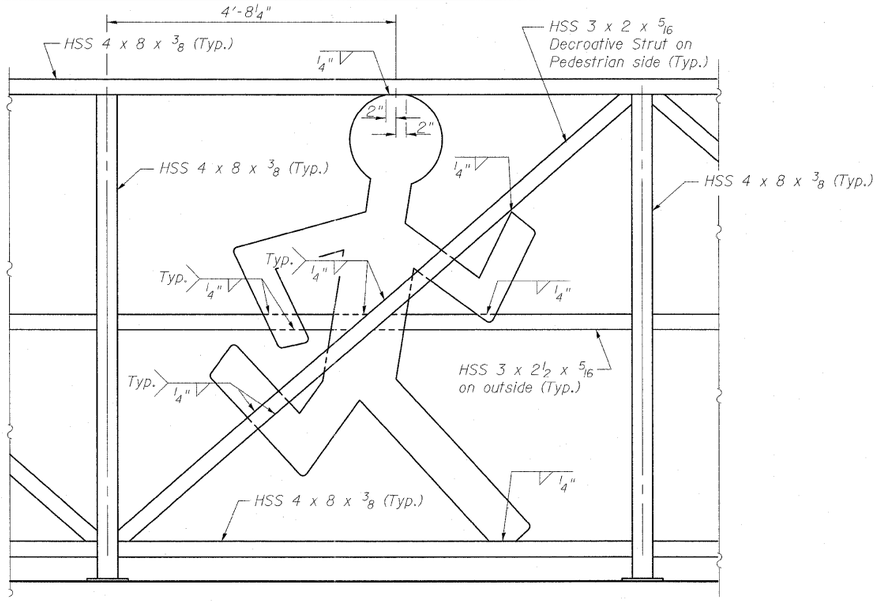
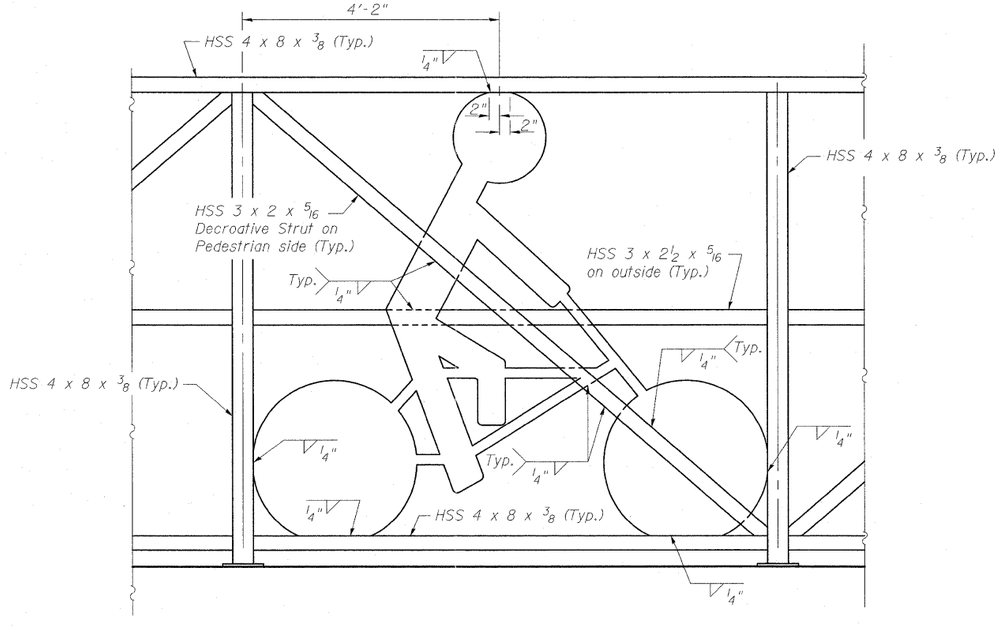
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING (SPECIAL) BICYCLING FIGURINE
STRUCTURE NUMBER 025-6010
SHEET NO. 12 OF 46 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	381
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



RUNNING FIGURINE ATTACHMENT DETAIL



BICYCLING FIGURINE ATTACHMENT DETAIL

Notes:

Handrail, inside horizontal rail and chain link fence not shown for clarity.

See sheet 1 of 46 for elevation view of figurine for placement/orientation.

See sheets 11 and 12 of 46 for figurine dimensions.

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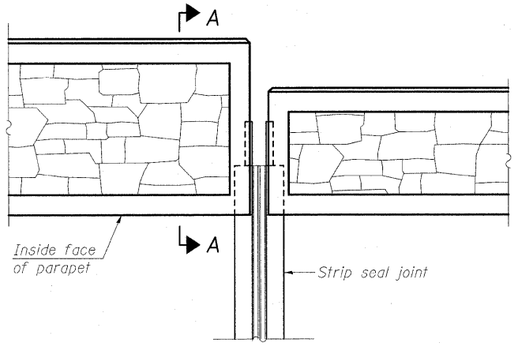
FILE NAME = ...\D774299-0256010-sht013.dgn	USER NAME =	DESIGNED - BB	REVISED -
	Illinois Design Firm Number 184.001670	CHECKED - ACS	REVISED -
	PLOT SCALE =	DRAWN - WJS	REVISED -
	PLOT DATE = 7:42:23 AM 5/6/2011	CHECKED - CJF	REVISED -

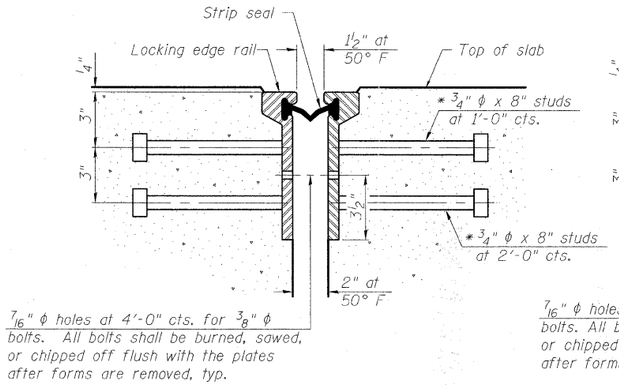
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING (SPECIAL) FIGURINE ATTACHMENT DETAILS
STRUCTURE NUMBER 025-6010
SHEET NO. 13 OF 46 SHEETS

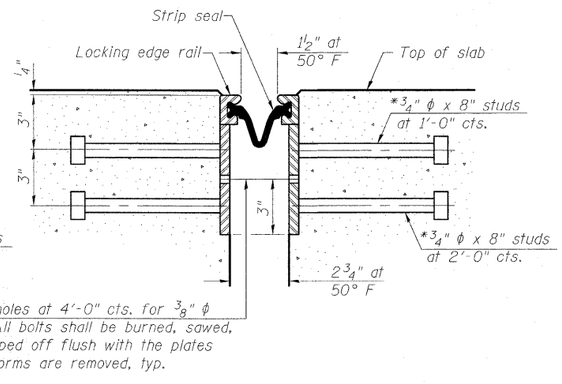
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	382
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



PLAN

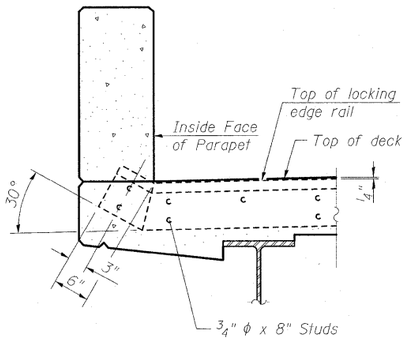


SECTION THRU ROLLED RAIL JOINT

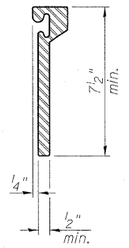


SECTION THRU WELDED RAIL JOINT

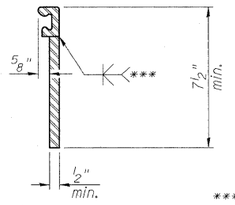
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



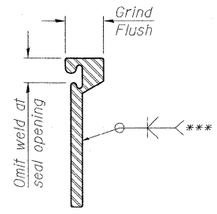
SECTION A-A



ROLLED EXTRUDED RAIL



WELDED RAIL



*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

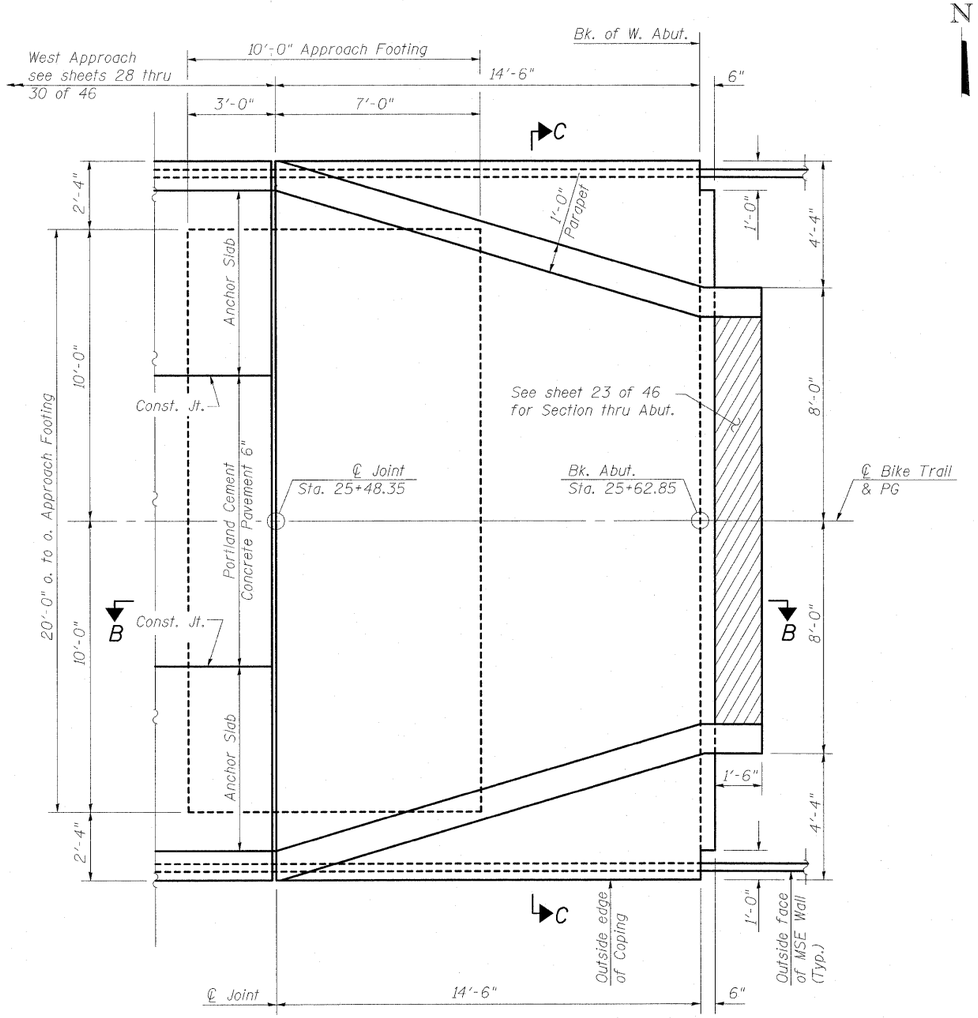
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

BILL OF MATERIAL

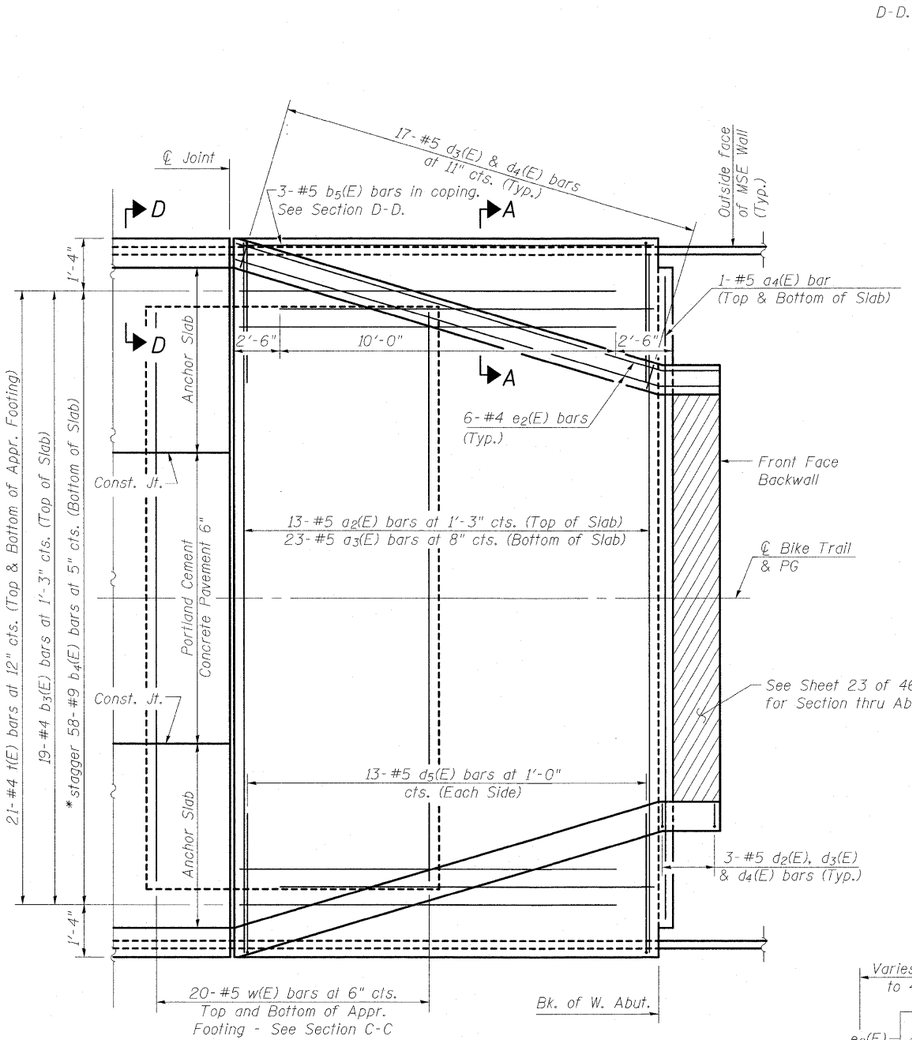
Item	Unit	Total
Preformed Joint Strip Seal	Foot	30

Note:
See sheet 16 of 46 for Sections B-B & C-C and View D-D.



WEST BRIDGE APPROACH SLAB

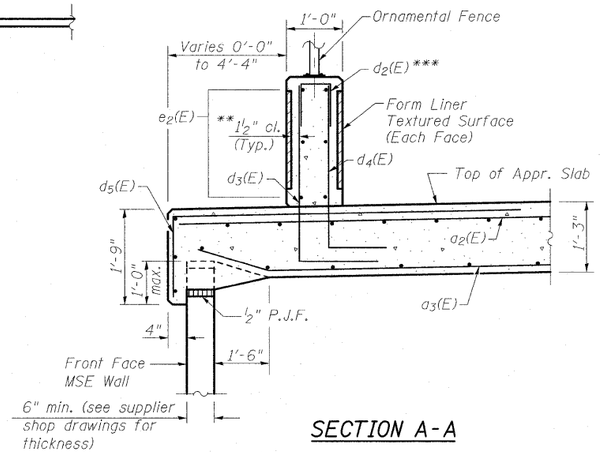
(showing dimensions)



WEST BRIDGE APPROACH SLAB

(showing reinforcement)

*Tilt #9 b_4(E) bars as required to maintain clearance.
**Clear distance taken from inner-most edge of form liner.
***Place 2-d_2(E) bars at each Ornamental Fence post



SECTION A-A

FILE NAME = ...\0774299-025601O-sht01S.dgn	USER NAME =	DESIGNED - BB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEST BRIDGE APPROACH SLAB DETAILS STRUCTURE NUMBER 025-6010 SHEET NO. 15 OF 46 SHEETS
BERNARDIN · LOCHMUELLER & ASSOCIATES, INC. 3 OAK DRIVE MARYVILLE, ILLINOIS 62062 PHONE (618) 288-4665 FAX (618) 288-4666	Illinois Design Firm Number 184.001670	CHECKED - ACS	REVISED -		
	PLOT SCALE =	DRAWN - WJS	REVISED -		
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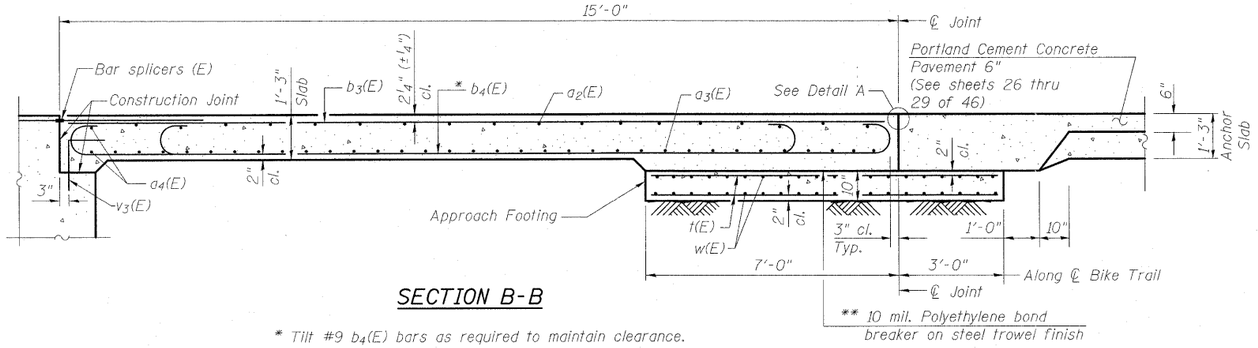
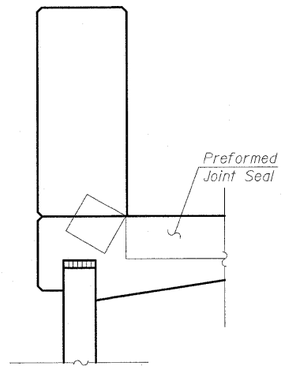
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	384
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



SECTION B-B

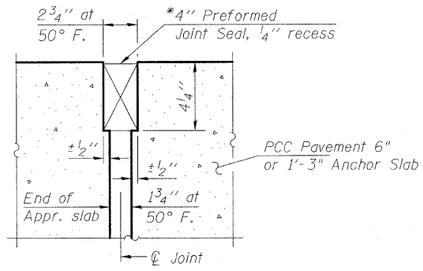
* Tilt #9 $b_4(E)$ bars as required to maintain clearance.
** Cost included with Concrete Superstructure.

Notes:
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For $v_3(E)$ bar details, see sheet 22 of 46.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
For bar splicer details, see sheet 41 of 46.
For $d_2(E)$ bar details, see sheet 8 of 46.



VIEW D-D

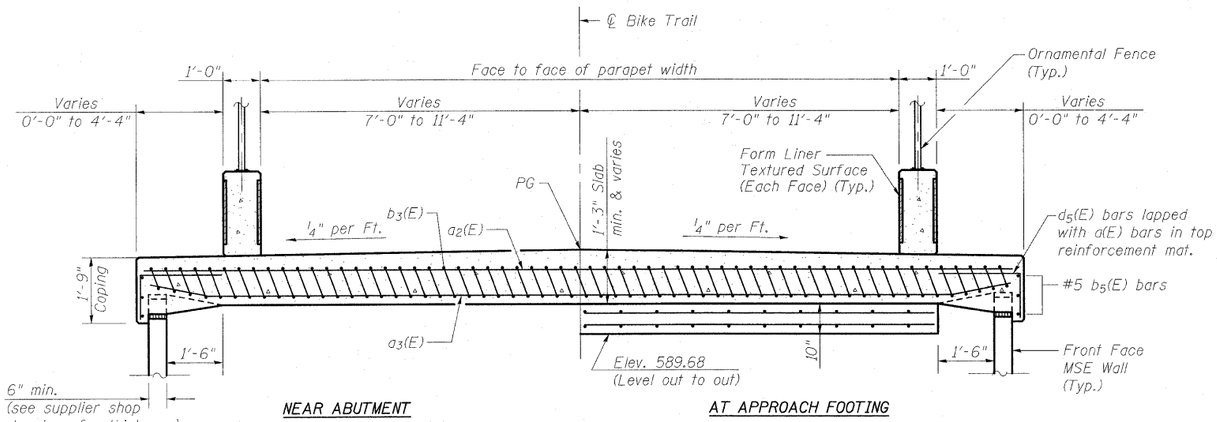
Angle Preformed Joint Seal at 30° at Parapets.



RIGID PAVEMENT

DETAIL A

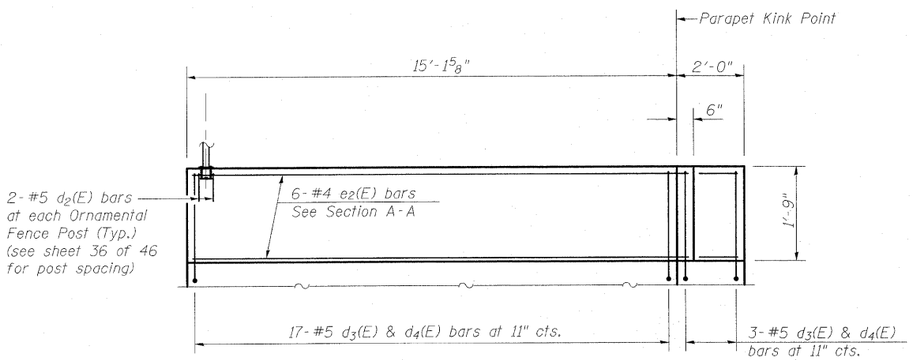
*Cost included with Concrete Superstructure.



NEAR ABUTMENT — AT APPROACH FOOTING

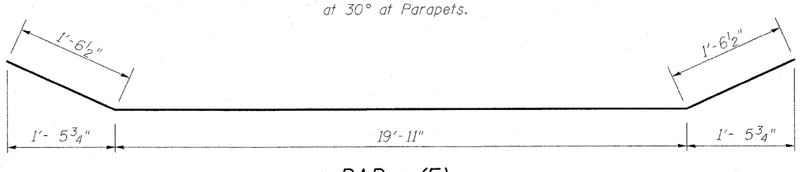
SECTION C-C

(See Plan for dimensions not shown)
(See Sheet 15 of 46 for Parapet Reinforcement)

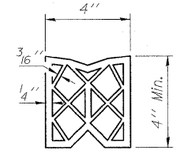


WEST BRIDGE APPROACH PARAPET ELEVATION

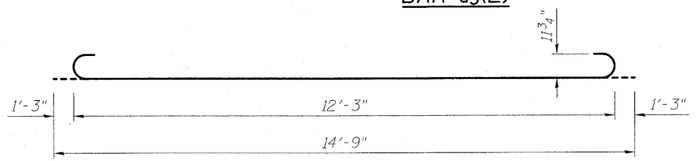
(dims. taken along front face of parapet)



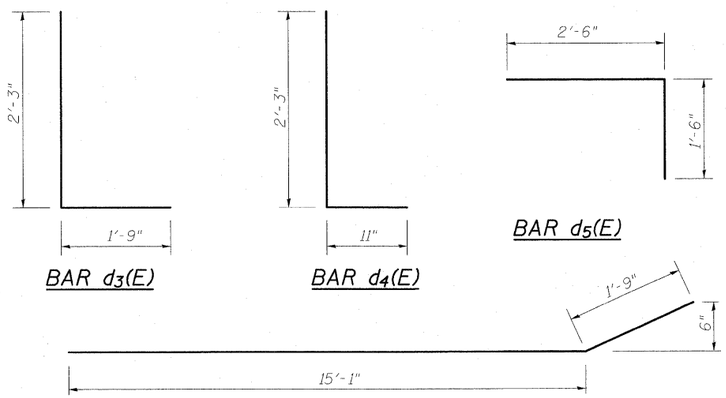
BAR $a_3(E)$



PREFORMED JOINT SEAL



BAR $b_4(E)$



BAR $d_3(E)$

BAR $d_4(E)$

BAR $d_5(E)$

BAR $e_2(E)$

WEST APPROACH BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$a_2(E)$	13	#5	24'-5"	
$a_3(E)$	23	#5	23'-0"	
$a_4(E)$	2	#5	22'-5"	
$b_3(E)$	19	#4	14'-9"	
$b_4(E)$	58	#9	14'-9"	
$b_5(E)$	6	#5	14'-3"	
$d_2(E)$	20	#5	1'-11"	
$d_3(E)$	40	#5	4'-0"	
$d_4(E)$	40	#5	3'-2"	
$d_5(E)$	26	#5	4'-0"	
$e_2(E)$	12	#4	16'-10"	
$t(E)$	42	#4	9'-9"	
$w(E)$	40	#5	19'-9"	
Concrete Superstructure			Cu. Yd.	21.5
Concrete Structures			Cu. Yd.	6.2
Reinforcement Bars, Epoxy Coated			Pound	5800
Form Liner Textured Surface			Sq. Ft.	81.0

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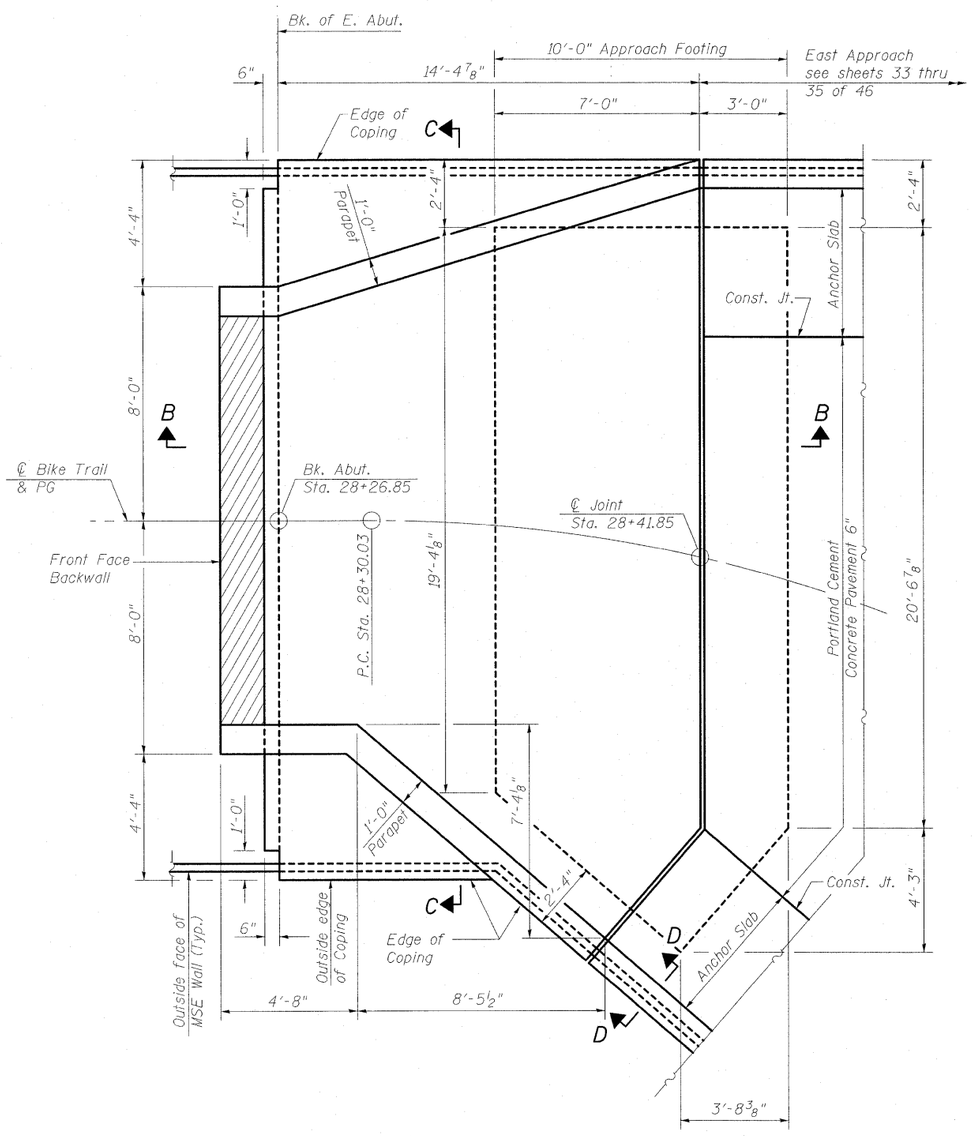
		CHECKED - ACS	REVISED -
	PLOT SCALE =	DRAWN - WJS	REVISED -
	PLOT DATE = 7:43:10 AM 5/6/2011	CHECKED - CJF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NUMBER 025-6010
SHEET NO. 16 OF 46 SHEETS

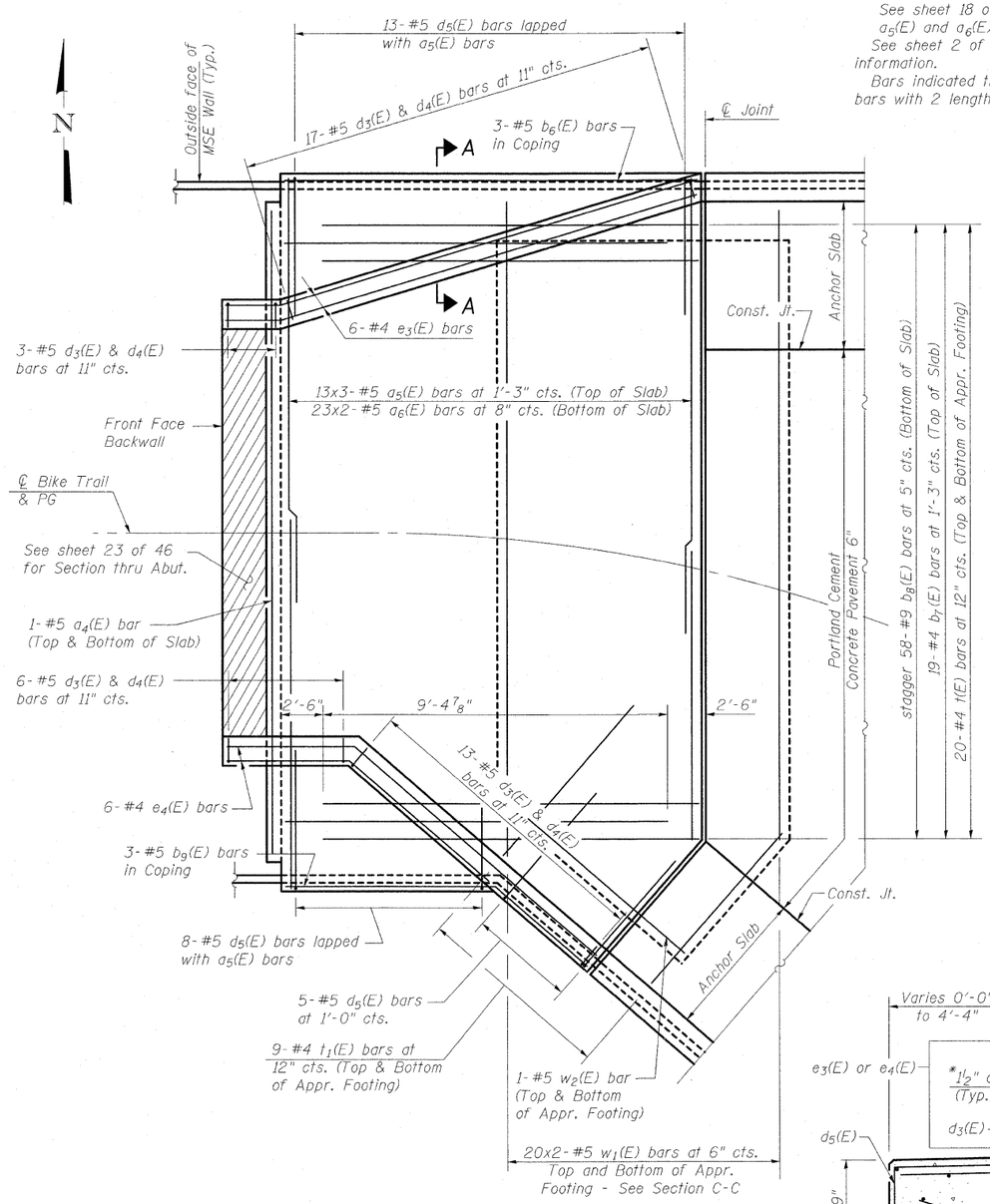
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	385
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Notes:
See sheet 18 of 46 for Sections B-B & C-C and View D-D.
$a_5(E)$ and $a_6(E)$ bar spacings measured along ℄ Bike Trail.
See sheet 2 of 46 for Bike Trail horizontal curve information.
Bars indicated thus 20x2-#5 etc. indicates 20 lines of #5 bars with 2 lengths per line.



EAST APPROACH SLAB

(showing dimensions)



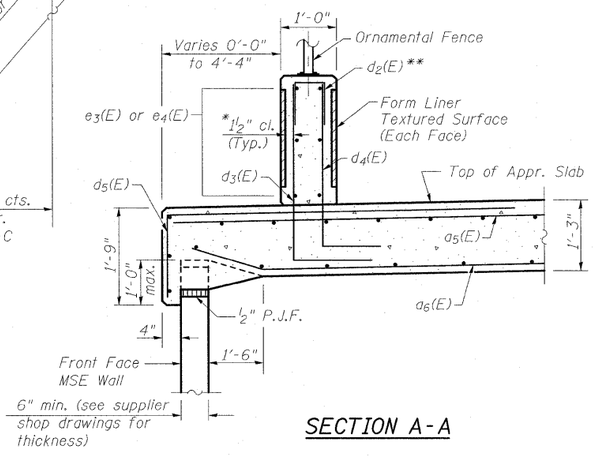
EAST APPROACH SLAB

(showing reinforcement)

*Clear distance taken from inner-most edge of form liner.
**Place 2-$d_2(E)$ bars at each Bridge Decorative Fence Railing post

MIN. BAR LAP

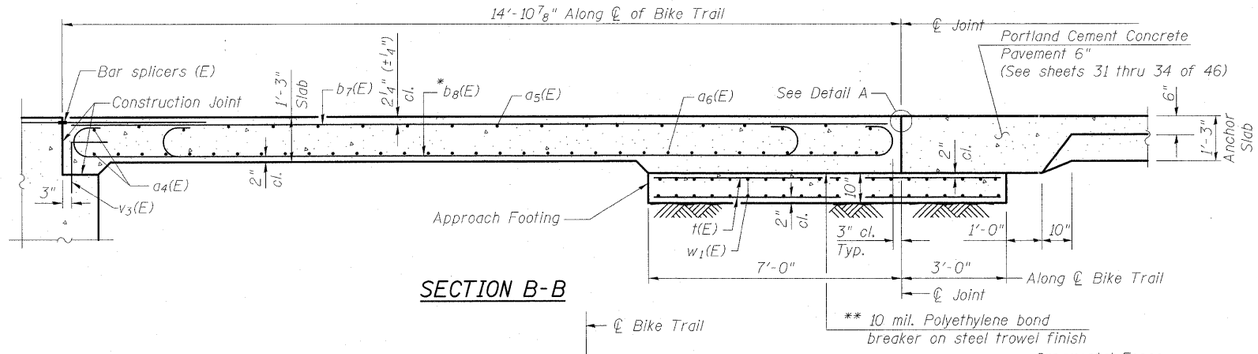
#5 bars = 2'-6"



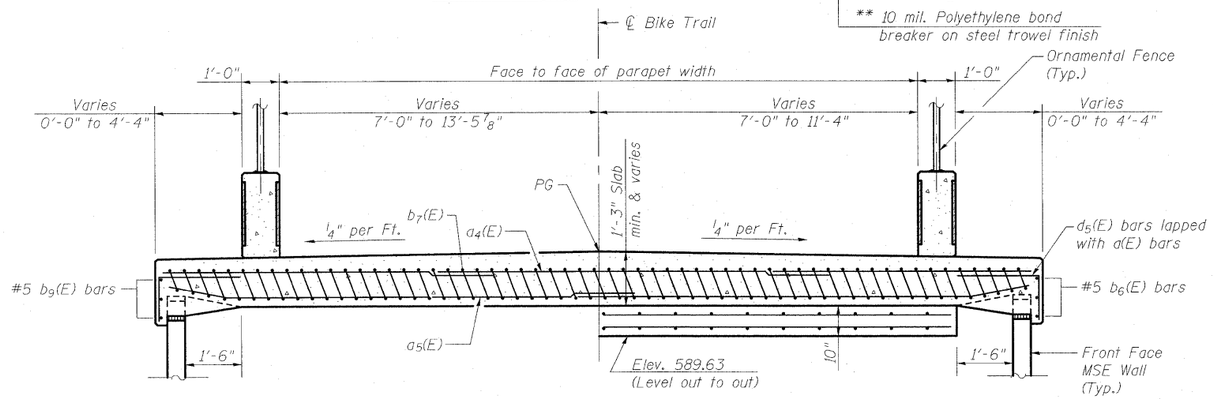
SECTION A-A

FILE NAME = _\0774299-025601O-sht017.dgn	USER NAME =	DESIGNED - BB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST BRIDGE APPROACH SLAB DETAILS STRUCTURE NUMBER 025-6010
BERNARDIN • LOCHMUELLER & ASSOCIATES, INC. 3 OAK DRIVE MARYVILLE, ILLINOIS 62062 PHONE (618) 288-4665 FAX (618) 288-4666	Illinois Design Firm Number 184.001670	CHECKED - ACS	REVISED -		SHEET NO. 17 OF 46 SHEETS
	PLOT SCALE =	DRAWN - WJS	REVISED -		
	PLOT DATE = 7:43:22 AM 5/6/2011	CHECKED - CJF	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	386
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



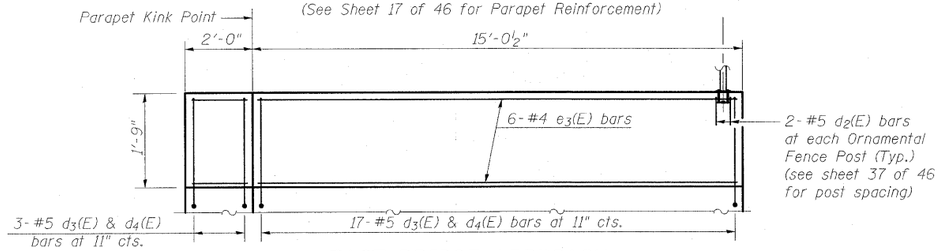
SECTION B-B



NEAR ABUTMENT — AT APPROACH FOOTING

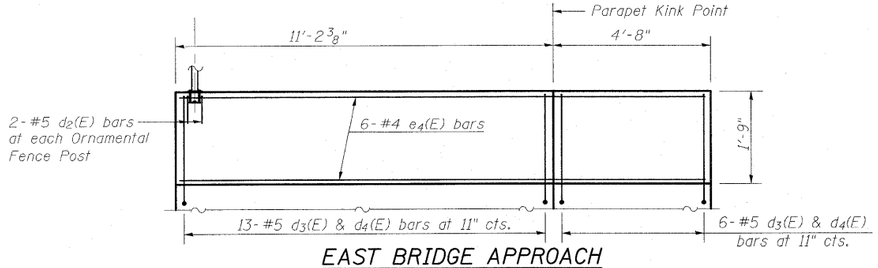
SECTION C-C

(See Plan for dimensions not shown)
(See Sheet 17 of 46 for Parapet Reinforcement)



EAST BRIDGE APPROACH PARAPET ELEVATION

(Showing North Parapet)
(dims. taken along face of parapet)

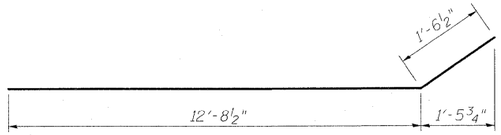


EAST BRIDGE APPROACH PARAPET ELEVATION

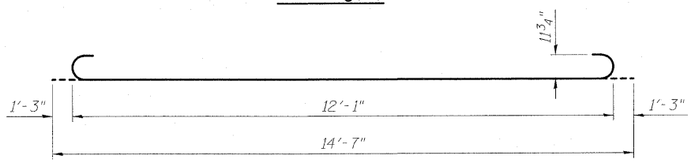
(Showing South Parapet)
(dims. taken along face of parapet)

Notes:
See sheet 16 of 46 for Detail A.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For $v_3(E)$ bar details, see sheet 22 of 46.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
For bar splicer details, see sheet 41 of 46.
For Preformed Joint Seal details see sheet 14 of 46.
For $d_2(E)$ bar details, see sheet 8 of 46.
For $d_3(E)$, $d_4(E)$ and $d_5(E)$ bar details, see sheet 16 of 46.

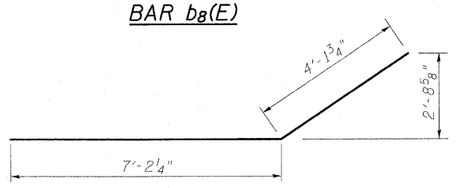
* Tilt #9 $b_8(E)$ bars as required to maintain clearance.
** Cost included with Concrete Superstructure.



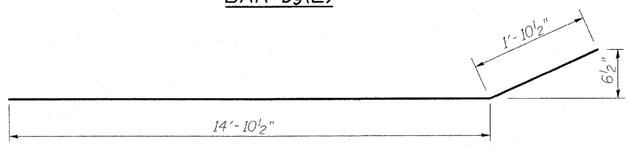
BAR $a_6(E)$



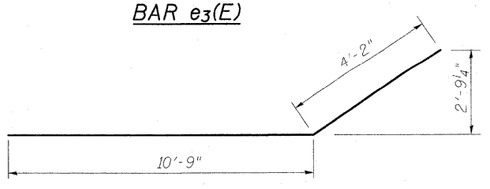
BAR $b_8(E)$



BAR $b_9(E)$



BAR $e_3(E)$



BAR $e_4(E)$

EAST APPROACH BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$a_4(E)$	2	#5	22'-5"	
$a_5(E)$	39	#5	10'-9"	
$a_6(E)$	46	#5	14'-3"	
$b_6(E)$	3	#5	14'-1"	
$b_7(E)$	19	#4	14'-8"	
$b_8(E)$	58	#9	14'-7"	
$b_9(E)$	3	#5	11'-4"	
$d_2(E)$	18	#5	1'-11"	
$d_3(E)$	39	#5	4'-0"	
$d_4(E)$	39	#5	3'-2"	
$d_5(E)$	26	#5	4'-0"	
$e_3(E)$	6	#4	16'-9"	
$e_4(E)$	6	#4	14'-11"	
$f(E)$	40	#4	9'-9"	
$f_1(E)$	18	#4	6'-4"	
$w_1(E)$	80	#5	13'-7"	
$w_2(E)$	2	#5	8'-1"	
Concrete Superstructure			Cu. Yd.	21.7
Concrete Structures			Cu. Yd.	6.9
Reinforcement Bars, Epoxy Coated			Pound	6360
Form Liner Textured Surface			Sq. Ft.	78.0

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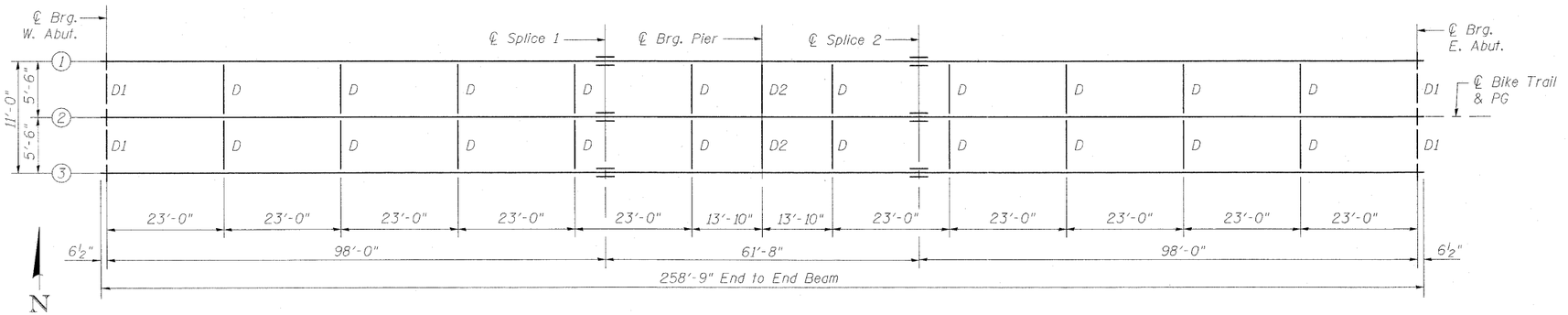
FILE NAME = ...\0774299-025601O-sht01B.dgn	USER NAME =	DESIGNED - BB	REVISED -
	Illinois Design Firm Number 184.001670	CHECKED - ACS	REVISED -
	PLOT SCALE =	DRAWN - WJS	REVISED -
	PLOT DATE = 7:43:34 AM 5/6/2011	CHECKED - CJF	REVISED -

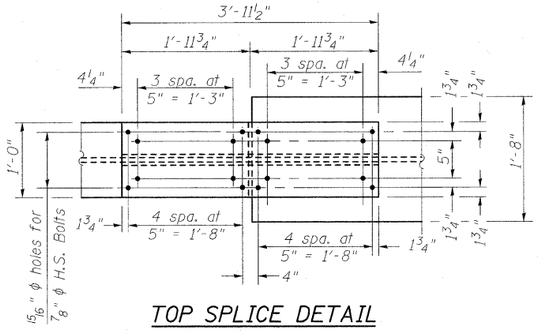
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NUMBER 025-6010
SHEET NO. 18 OF 46 SHEETS

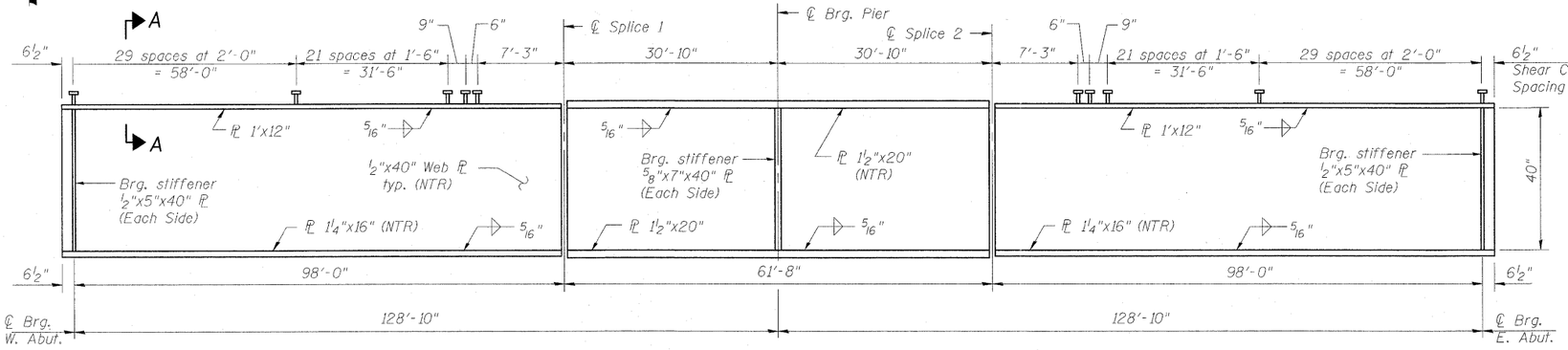
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	387
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



FRAMING PLAN

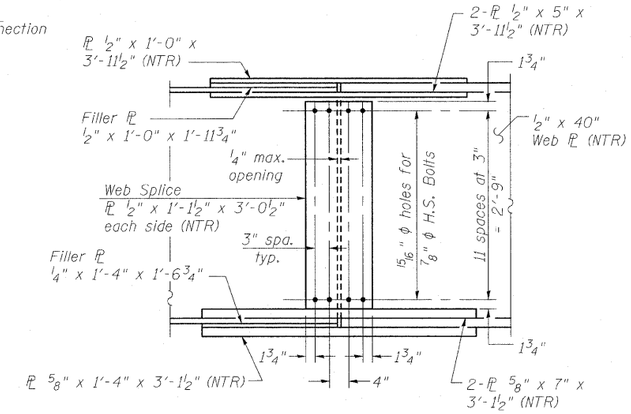


TOP SPLICE DETAIL



GIRDER ELEVATION

"NTR" denotes plates to which notch toughness requirements are applicable.

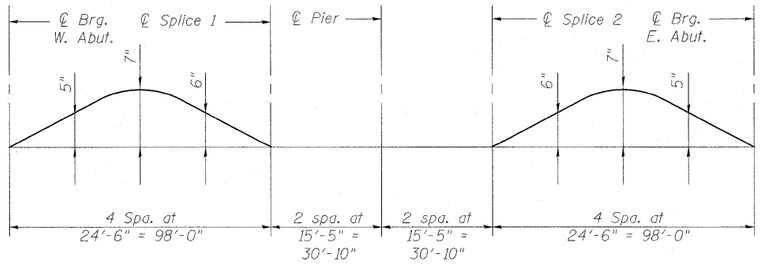


ELEVATION SPLICE DETAIL

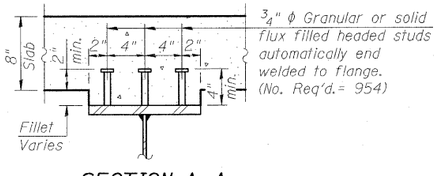
*TOP OF WEB ELEVATIONS

Location	℄ Brg. W. Abut	℄ Splice 1	℄ Pier	℄ Splice 2	℄ Brg. E. Abut
Girder 1	591.88	594.76	594.76	594.76	591.88
Girder 2	591.98	594.87	594.87	594.87	591.98
Girder 3	591.88	594.76	594.76	594.76	591.88

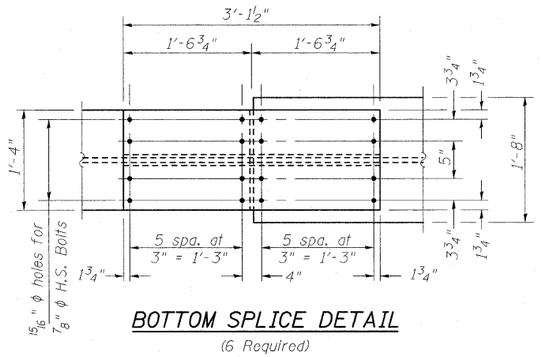
*"For Fabrication Only"



CAMBER DIAGRAM



SECTION A-A



BOTTOM SPLICE DETAIL

(6 Required)

Notes:.

Two hardened washers required for each set of oversized holes.

All splice plates, except filler plates, shall be M270 Grade 50 (NTR).

All girder flanges, webs and bearing stiffeners shall be M270 Grade 50.

All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

"NTR" denotes plates to which notch toughness requirements are applicable.

For details of Bearing Stiffeners See sheet 20 of 46.

For diaphragm details see sheet 20 of 46.

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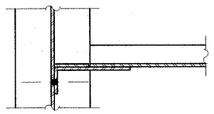
	PLOT DATE = 7:43:46 AM 5/6/2011	CHECKED - CJF	REVISED -

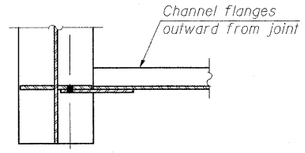
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL
STRUCTURE NUMBER 025-6010
SHEET NO. 19 OF 46 SHEETS

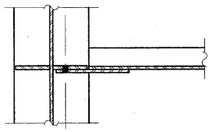
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	388
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



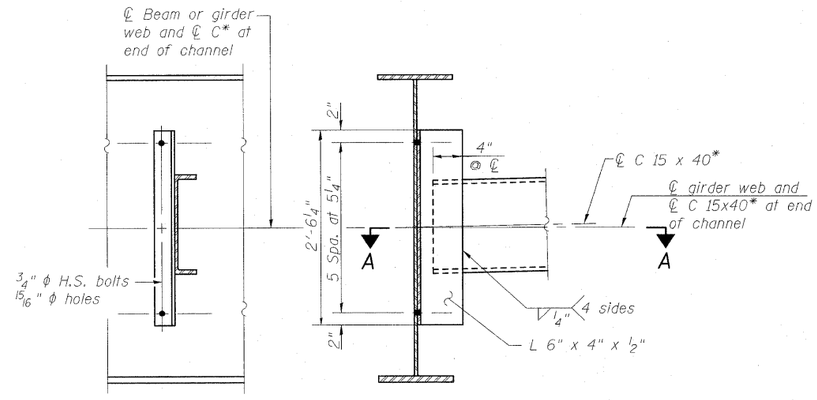
SECTION A-A



SECTION B-B



SECTION C-C

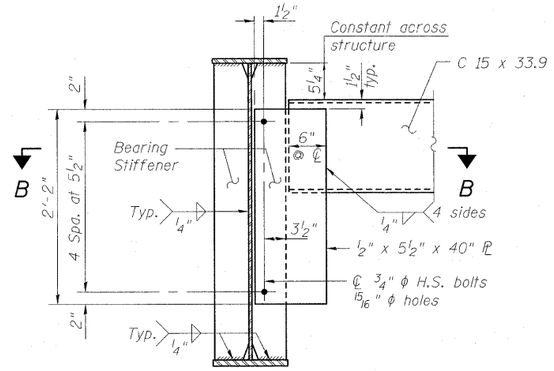


DIAPHRAGM D

*Alternate channel C 15 x 50 is permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.

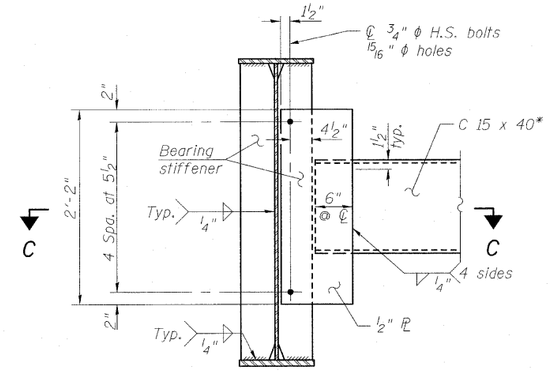
The alternate, if utilized, shall be provided at no extra cost to the Department.

Stop fillet weld from connection plate to flange ¼" from end of connection plate.



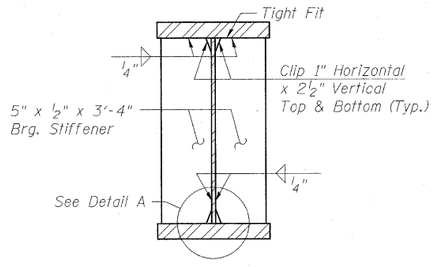
DIAPHRAGM D1

Note: Two hardened washers required for each set of oversized holes.

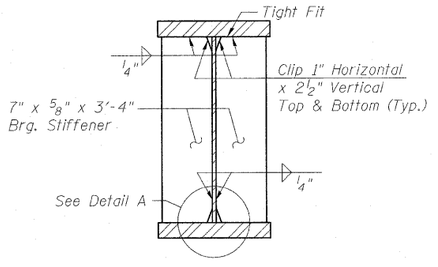


DIAPHRAGM D2

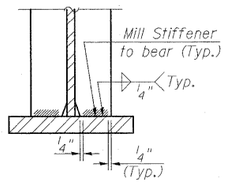
Note: Two hardened washers required for each set of oversized holes.



SECTION AT ABUT.



SECTION AT PIER



DETAIL A

Notes:

See sheet 19 of 46 for diaphragm layout and spacing.

All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

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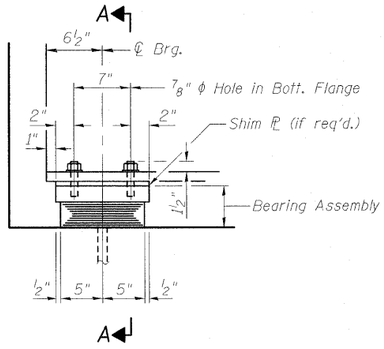
	PLOT DATE = 7:43:58 AM 5/6/2011	CHECKED - CJF	REVISED -

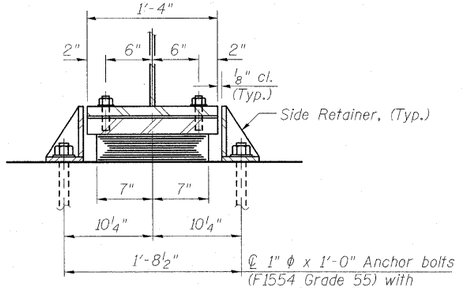
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL
STRUCTURE NUMBER 025-6010
SHEET NO. 20 OF 46 SHEETS

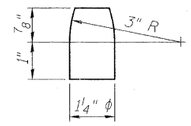
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	389
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



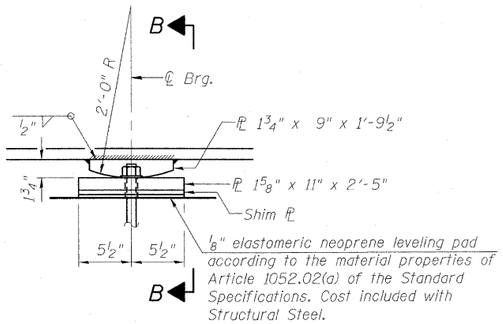
ELEVATION AT ABUT.



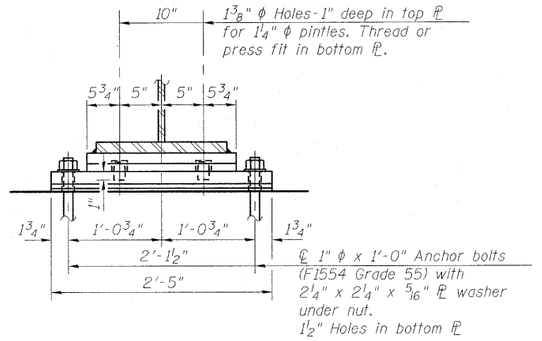
SECTION A-A



PINTLE



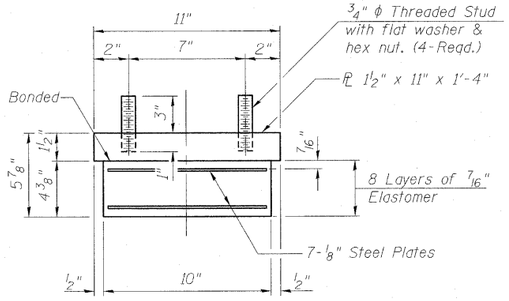
ELEVATION AT PIER



SECTION B-B

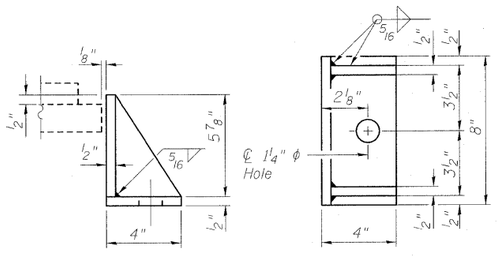
TYPE I ELASTOMERIC EXP. BRG.

(6 required)
(3 at each Abut.)



BEARING ASSEMBLY

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



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

See sheets 22 and 24 of 46 for Anchor Bolt Location Details.

Two ⅛" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown in the bearing details.

All bearing plates shall be M270 Gr. 50.

The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

FIXED BEARING

(3 required)

INTERIOR GIRDER MOMENT TABLE			
		0.4 Sp. 1 or 0.6 Sp. 2	Pier
I_s	(in^4)	15688	28512
$I_c(n)$	(in^4)	38157	-
$I_c(3n)$	(in^4)	27453	-
S_s	(in^3)	869	1326
$S_c(n)$	(in^3)	1108	-
$S_c(3n)$	(in^3)	981	-
DC1	(k/')	0.75	0.85
M_{DC1}	('k)	792	1951
DC2	(k/')	0.33	0.33
M_{DC2}	('k)	387	689
DW	(k/')	0.14	0.14
M_{DW}	('k)	161	286
M_L	('k)	762	882
M_U (Strength I)	('k)	3049	5272
* $\phi_f M_n$	('k)	5527	- -
f_s DC1	(ksi)	10.9	17.7
f_s DC2	(ksi)	4.7	6.2
f_s DW	(ksi)	2.0	2.6
f_s 1.3(L)	(ksi)	10.7	10.4
f_s (Service II)	(ksi)	28.4	36.9
** f_s (Total)(Strength I)	(ksi)	-	47.7
V_f	(k)	2.4	-

* compact sections
** non-compact and slender sections

INTERIOR GIRDER REACTION TABLE			
		Abut.	Pier
R_{DC1}	(k)	35.7	132.4
R_{DC2}	(k)	16.1	53.6
R_{DW}	(k)	6.7	22.2
R_L	(k)	26.7	73.9
R_{Total}	(k)	85.2	282.1

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads ($in.^4$ and $in.^3$).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_L: Un-factored live load moment due to Pedestrian Load (kip-ft.).

M_U (Strength I): Factored design moment (kip-ft.).
$1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_L$

$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

f_s (Service II): Sum of stresses as computed from the moments below (ksi).
$M_{DC1} + M_{DC2} + M_{DW} + 1.3\ M_L$

f_s (Total)(Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).
$1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_L$

V_f: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	6
Anchor Bolts, 1"	Each	18

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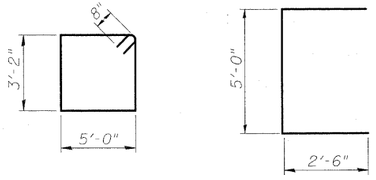
Illinois Design Firm Number 184.001670

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

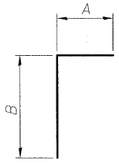
BEARING DETAILS
STRUCTURE NUMBER 025-6010
SHEET NO. 21 OF 46 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	390
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



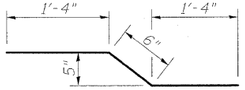
BAR s(E)

BAR u(E)



Bar	A	B
h_3(E)	3'-8"	5'-2"
h_4(E)	3'-8"	12'-9"
v_3(E)	1'-3"	1'-11"
v_6(E)	3'-8"	9'-8"

BAR

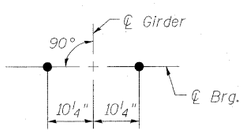


BAR v_1(E)

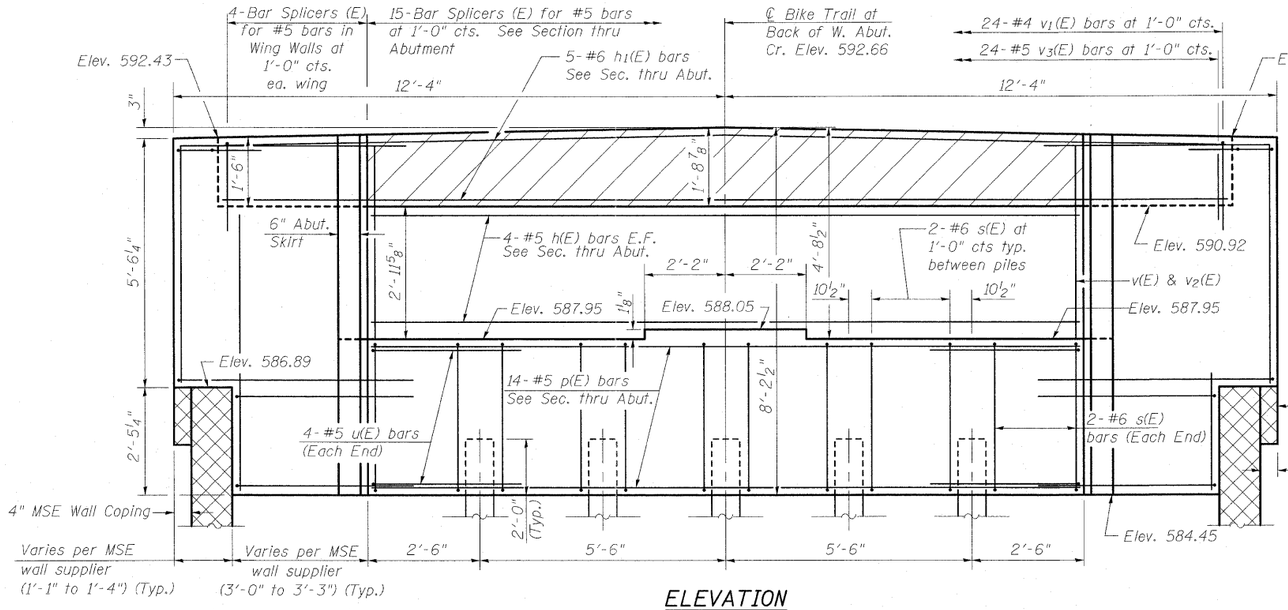
PILE DATA

Type: HP 14x73 with Pile Shoes
Nominal Required Bearing: 578k
Factored Resistance Available: 318k
Est. Length: 31'-0"
No. Production Piles: 8
No. Test Piles: 2 (1 at each abutment)

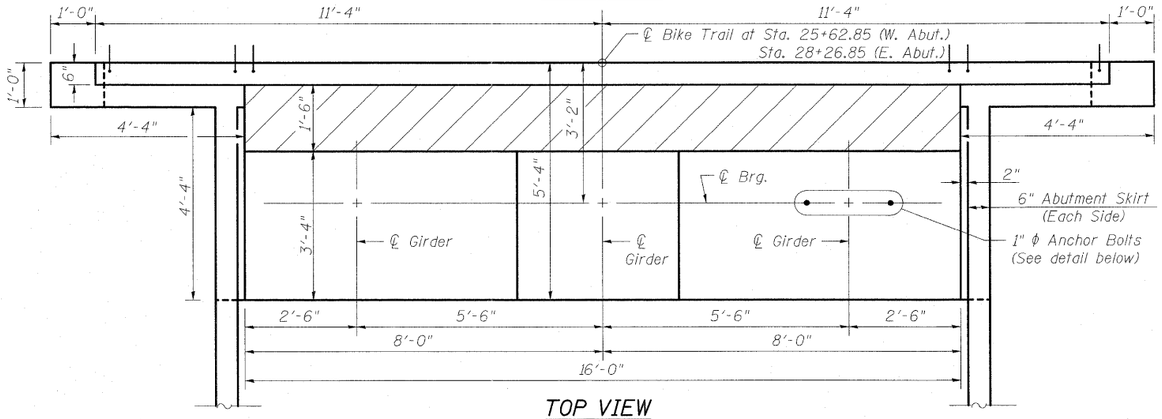
Piles shall be driven prior to the placement of the Reinforced Select Fill and coated with coal tar epoxy from the bottom of the Select Fill to 1' above the base of the Abutment. The cost of the coal tar shall be included with the cost of Furnishing Piles HP 14x73.



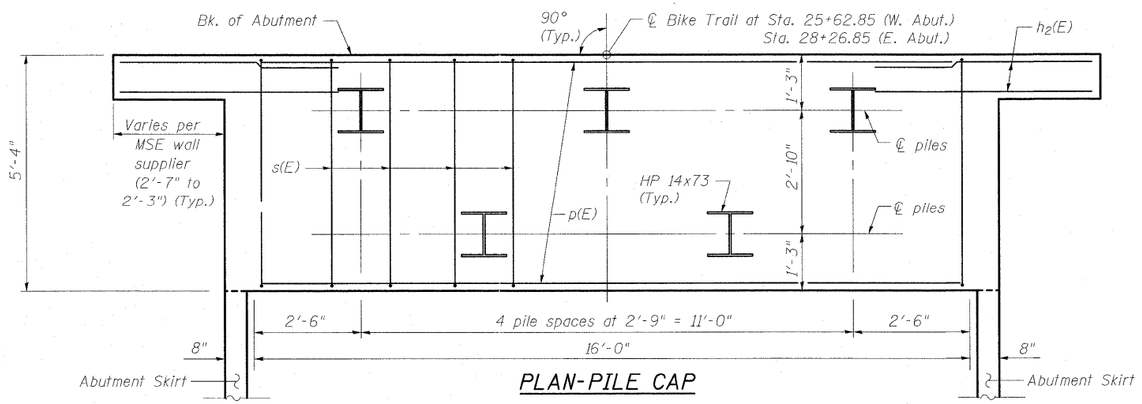
ANCHOR BOLT DETAIL



ELEVATION

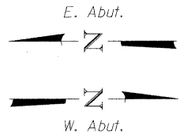


TOP VIEW



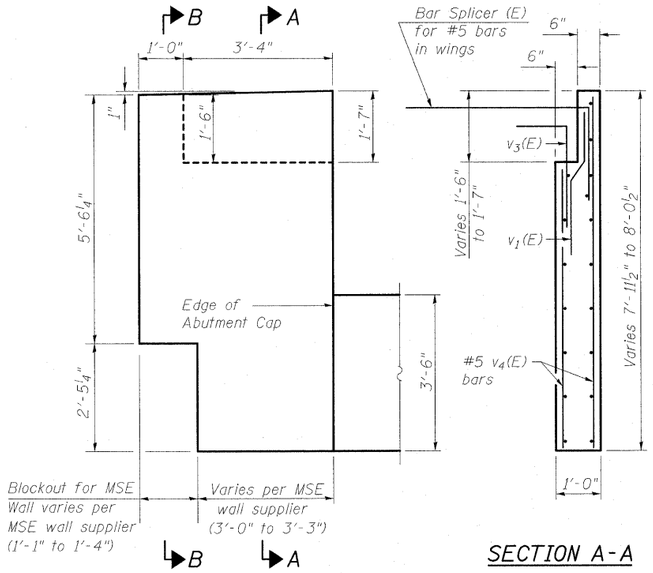
PLAN-PILE CAP

Notes:
Pour steps monolithically with cap.
See sheet 23 of 46 for Section thru Pile Supported Abutment.
For details of piles see sheet 42 of 46.
Space reinforcement in cap to miss anchor bolts.
For Abutment Skirt Details see sheet 23 of 46.
E.F. indicates Each Face.
A single test pile shall be used at each abutment.
For details of Bar Splicers, see sheet 41 of 46.

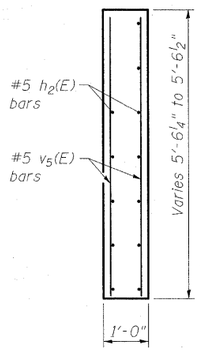


TWO ABUTMENT BILL OF MATERIAL

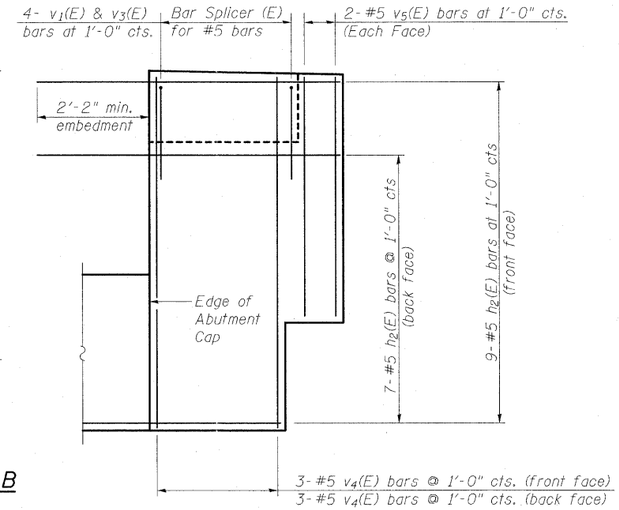
Bar	No.	Size	Length	Shape
h(E)	16	#5	15'-9"	
h_1(E)	10	#6	15'-9"	
h_2(E)	64	#5	6'-8"	
h_3(E)	8	#7	8'-10"	
h_4(E)	24	#7	16'-5"	
p(E)	28	#5	15'-9"	
s(E)	24	#6	17'-8"	
u(E)	16	#5	10'-0"	
v(E)	34	#7	5'-3"	
v_1(E)	48	#4	3'-2"	
v_2(E)	34	#7	6'-11"	
v_3(E)	48	#5	3'-2"	
v_4(E)	24	#5	7'-9"	
v_5(E)	16	#5	5'-2"	
v_6(E)	36	#7	13'-4"	
v_7(E)	8	#7	7'-0"	
Concrete Structures		Cu. Yd.	39.2	
Reinforcement Bars, Epoxy Coated		Pound	5640	
Furnishing Steel Piles HP 14x73		Foot	248	
Driving Piles		Foot	248	
Test Pile Steel HP 14x73		Each	2	
Pile Shoes		Each	10	
Concrete Sealer		Sq. Ft.	485	
Form Liner Textured Surface		Sq. Ft.	198	
Slope Wall 4 Inch		Sq. Yd.	14	



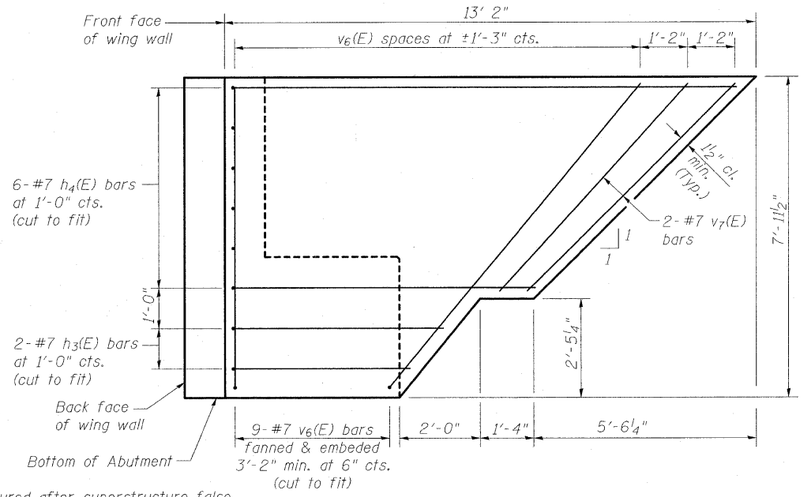
WING WALL ELEVATION
Showing Dimensions



SECTION B-B

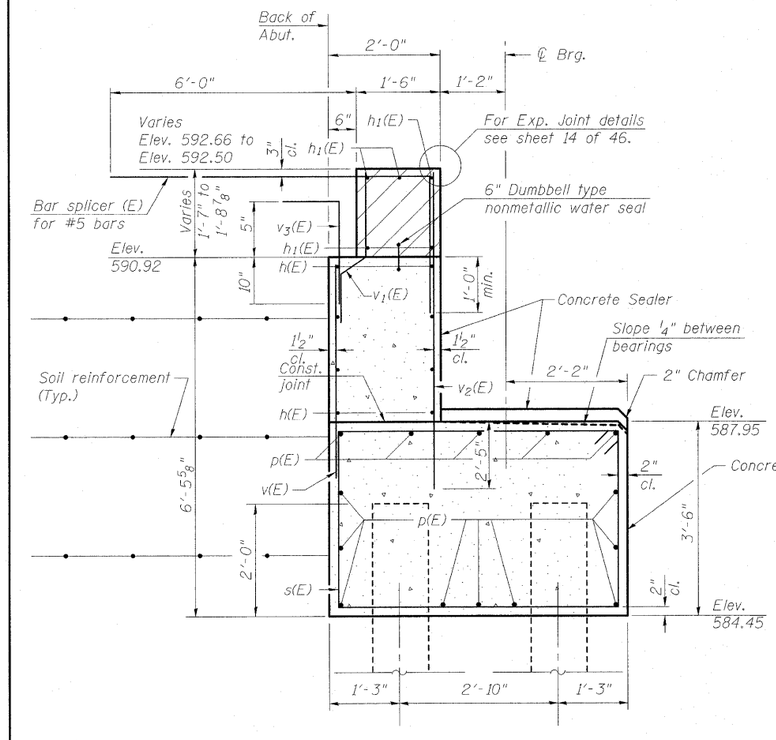


WING WALL ELEVATION
Showing Reinforcement

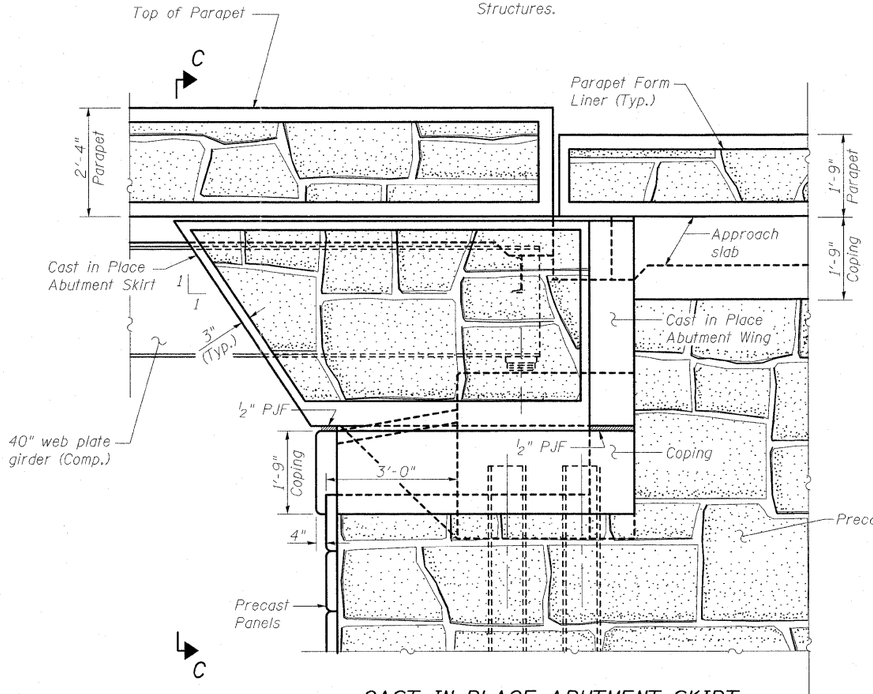


ELEVATION ABUTMENT SKIRT DETAILS

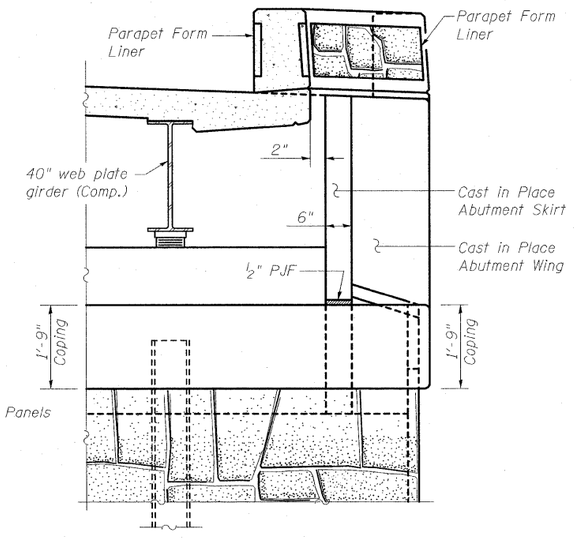
Notes:
Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
Order $h_3(E)$, $h_4(E)$, $v_6(E)$ & $v_7(E)$ bars full length. Cut to fit in field.
Abutment Skirt shall be paid for as Concrete Structures.



SECTION THRU ABUT.



CAST IN PLACE ABUTMENT SKIRT

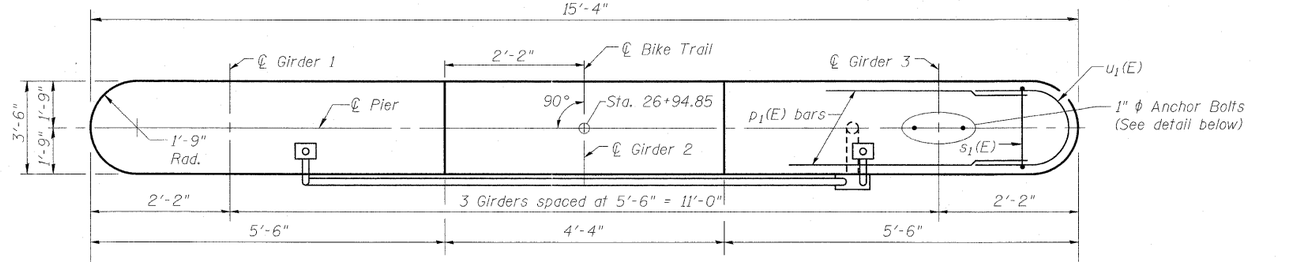


VIEW C-C

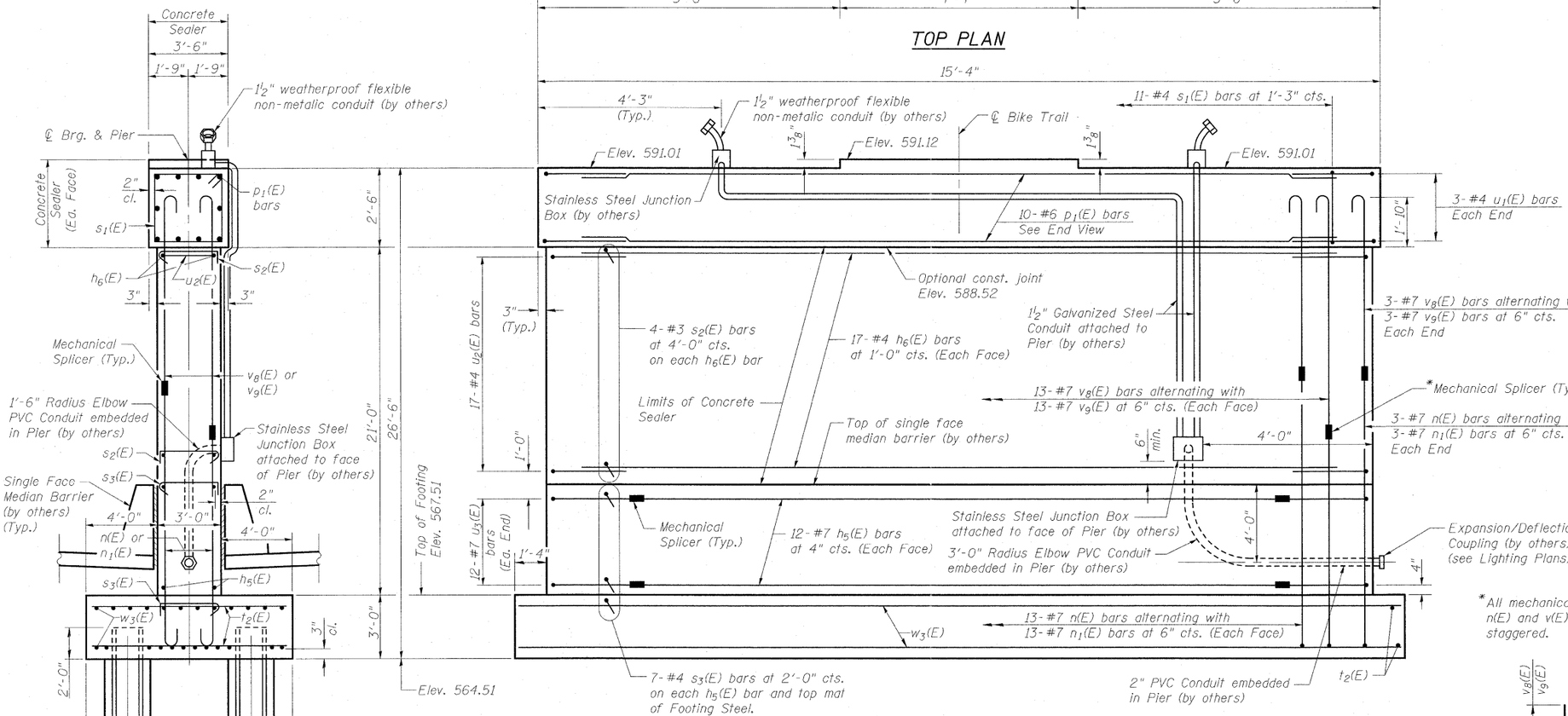
FILE NAME = ...\D7T4299-0256010-sht023.dgn	USER NAME =	DESIGNED - BB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ABUTMENT DETAILS STRUCTURE NUMBER 025-6010
BERNARDIN • LOCHMUELLER & ASSOCIATES, INC. 3 OAK DRIVE MARYVILLE, ILLINOIS 62062 PHONE (618) 288-4650 FAX (618) 288-4666	Illinois Design Firm Number 184.001670	CHECKED - ACS	REVISED -		SHEET NO. 23 OF 46 SHEETS
	PLOT SCALE =	DRAWN - WJS	REVISED -		
	PLOT DATE = 7:44:38 AM 5/6/2011	CHECKED - CJF	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	392
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 42 of 46.
See sheet 25 of 46 for Footing Plan.

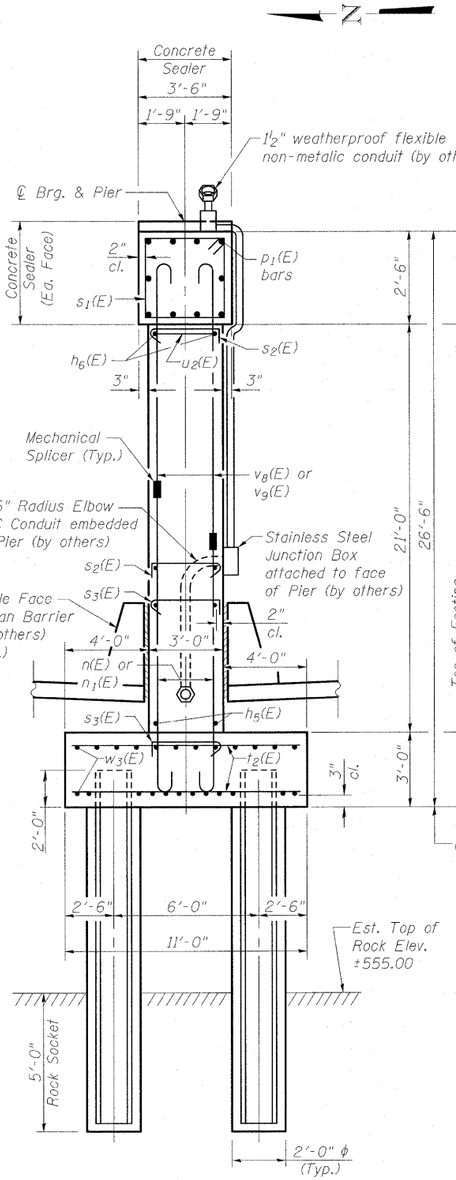


TOP PLAN

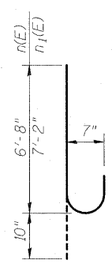


*All mechanical splicers for n(E) and v(E) bars shall be staggered.

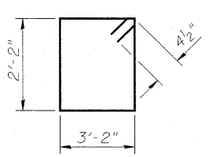
ELEVATION
(Looking East)



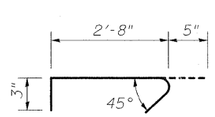
END VIEW



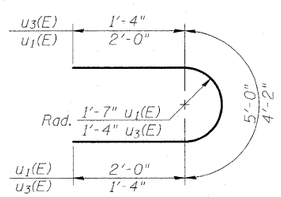
BARS n(E) & n_1(E)



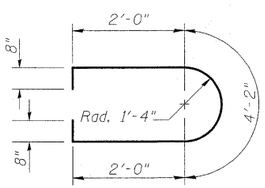
BAR s_1(E)



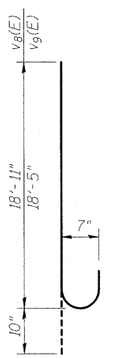
BARS s_2(E) & s_3(E)



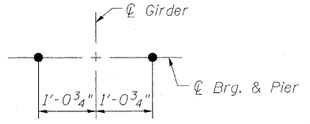
BARS u_1(E) & u_3(E)



BAR u_2(E)



BARS v_8(E) & v_9(E)



ANCHOR BOLT DETAIL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_5(E)	24	#7	9'-2"	—
h_6(E)	34	#4	11'-10"	—
n(E)	32	#7	7'-6"	U
n_1(E)	32	#7	8'-0"	U
p_1(E)	10	#6	11'-10"	—
s_1(E)	11	#4	11'-5"	□
s_2(E)	68	#3	3'-4"	⊓
s_3(E)	91	#4	3'-4"	⊓
t_2(E)	62	#8	10'-6"	—
u_1(E)	6	#4	9'-0"	U
u_2(E)	34	#4	9'-6"	U
u_3(E)	24	#7	6'-10"	U
v_8(E)	32	#7	19'-9"	U
v_9(E)	32	#7	19'-3"	U
w_3(E)	24	#5	17'-0"	—

Structure Excavation	Cu. Yd.	66
Concrete Structures	Cu. Yd.	58.5
Reinforcement Bars, Epoxy Coated	Pound	7590
Furnishing Steel Piles HP 14x73	Foot	136
Concrete Sealer	Sq. Ft.	624
Setting Piles in Rock	Each	8
Mechanical Splicers	Each	112

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Illinois Design Firm Number 184.001670
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PLOT DATE = 7:45:58 AM 5/6/2011

BERNARDIN · LOCHMUELLER & ASSOCIATES, INC.
3 OAK DRIVE
MARYVILLE, ILLINOIS 62062
PHONE (618) 288-4665
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

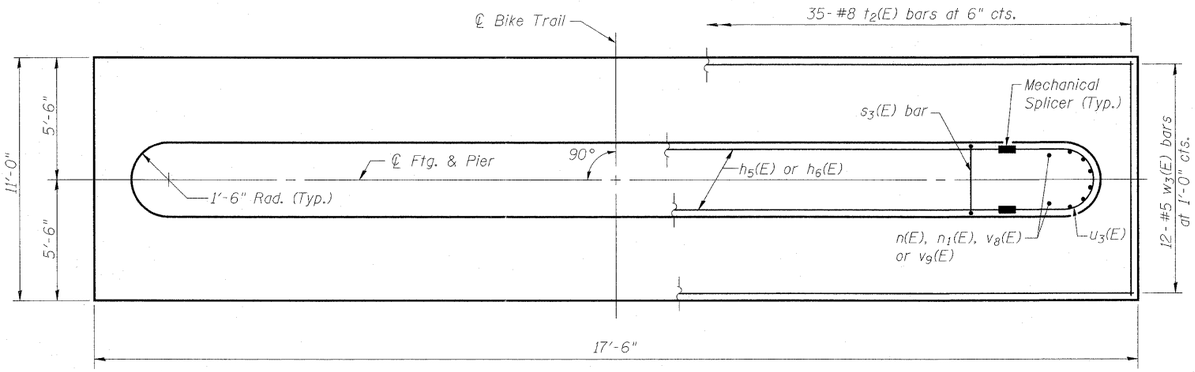
PIER
STRUCTURE NUMBER 025-6010
SHEET NO. 24 OF 46 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	393
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Notes:
Space $t_2(E)$ and $w_3(E)$ bars to miss piles.
For details of piles see sheet 42 of 46.
See sheet 24 of 46 for Bar Bend Details and Bill of Materials.
The placement of piles shall be according to
Guide Bridge Special Provision "Setting Piles in Rock."
See End View on sheet 24 of 46 for limits of Concrete Encasement.

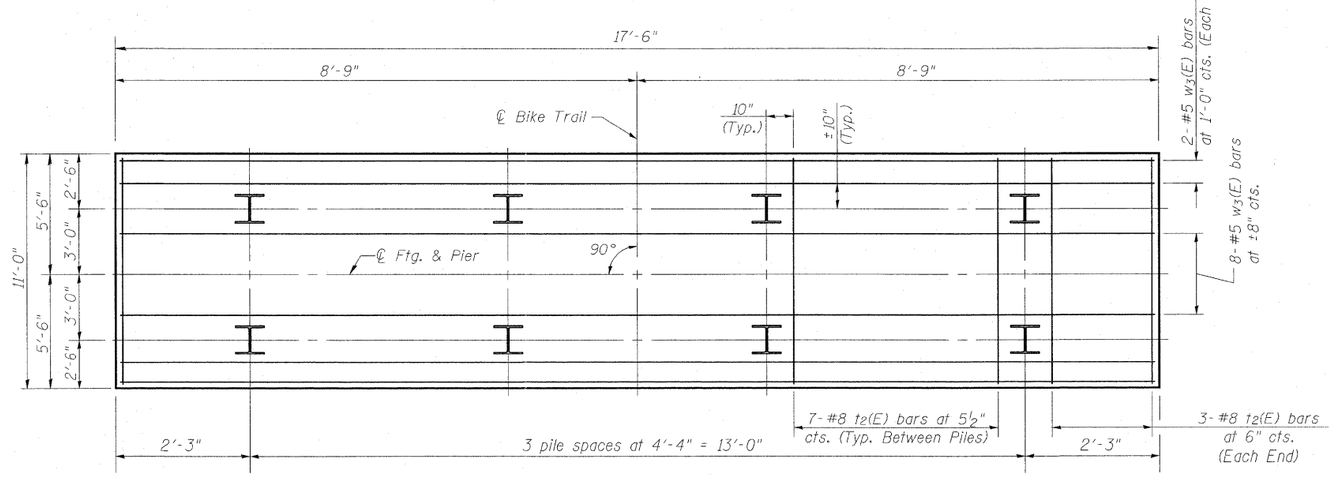
PILE DATA

Type: HP 14x73
Factored Resistance Available: 318k
Est. Length: 17'-0"
No. Production Piles: 8
Est. Top of Rock: 555.00
Rock Socket Depth: 5'-0"
Rock Socket Diameter: 2'-0"
Nominal Required Bearing: Set in Rock



N

FOOTING PLAN
(Showing Top Reinforcement)



FOOTING PLAN
(Showing Bottom Reinforcement)

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3 OAK DRIVE
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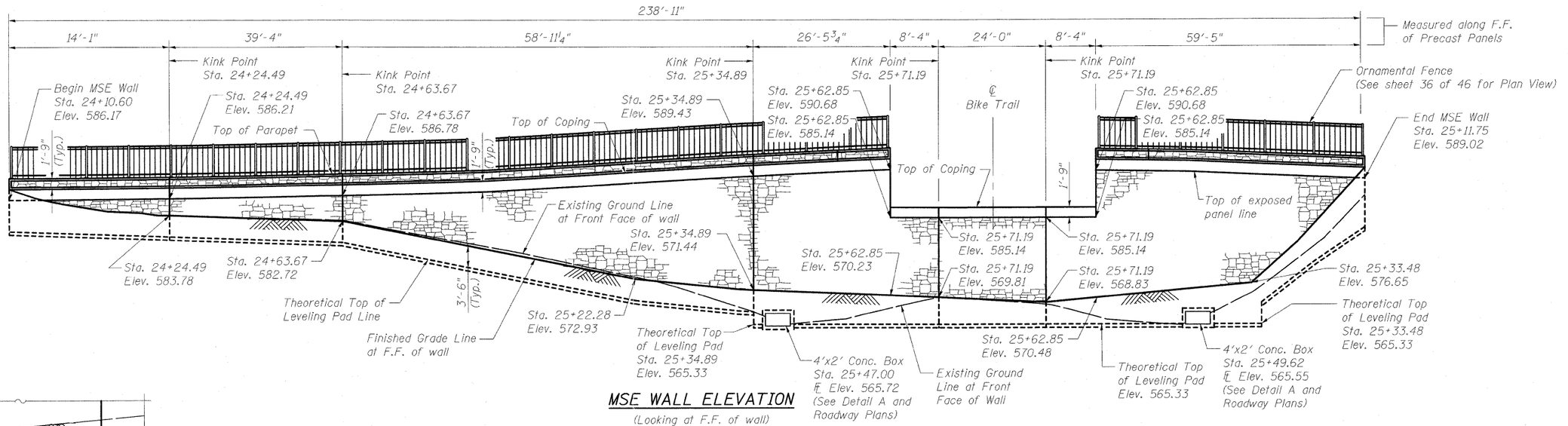
	PLOT DATE = 7:46:09 AM 5/6/2011	CHECKED - CJF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

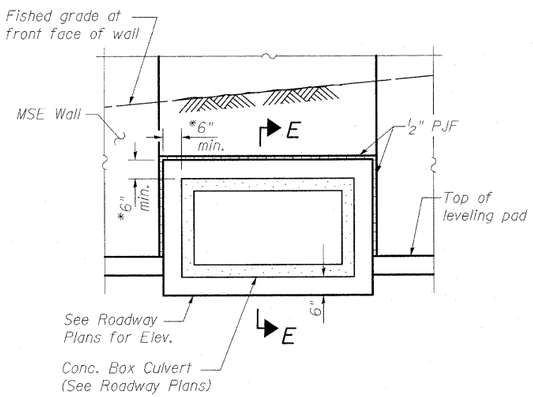
PIER DETAILS
STRUCTURE NUMBER 025-6010
SHEET NO. 25 OF 46 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	394
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

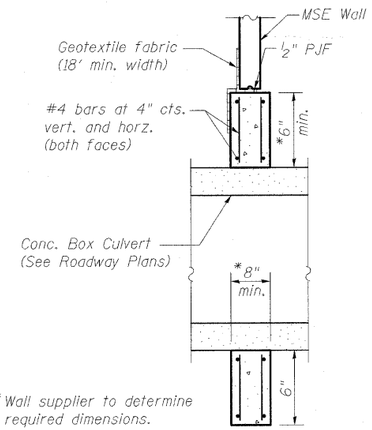


MSE WALL ELEVATION

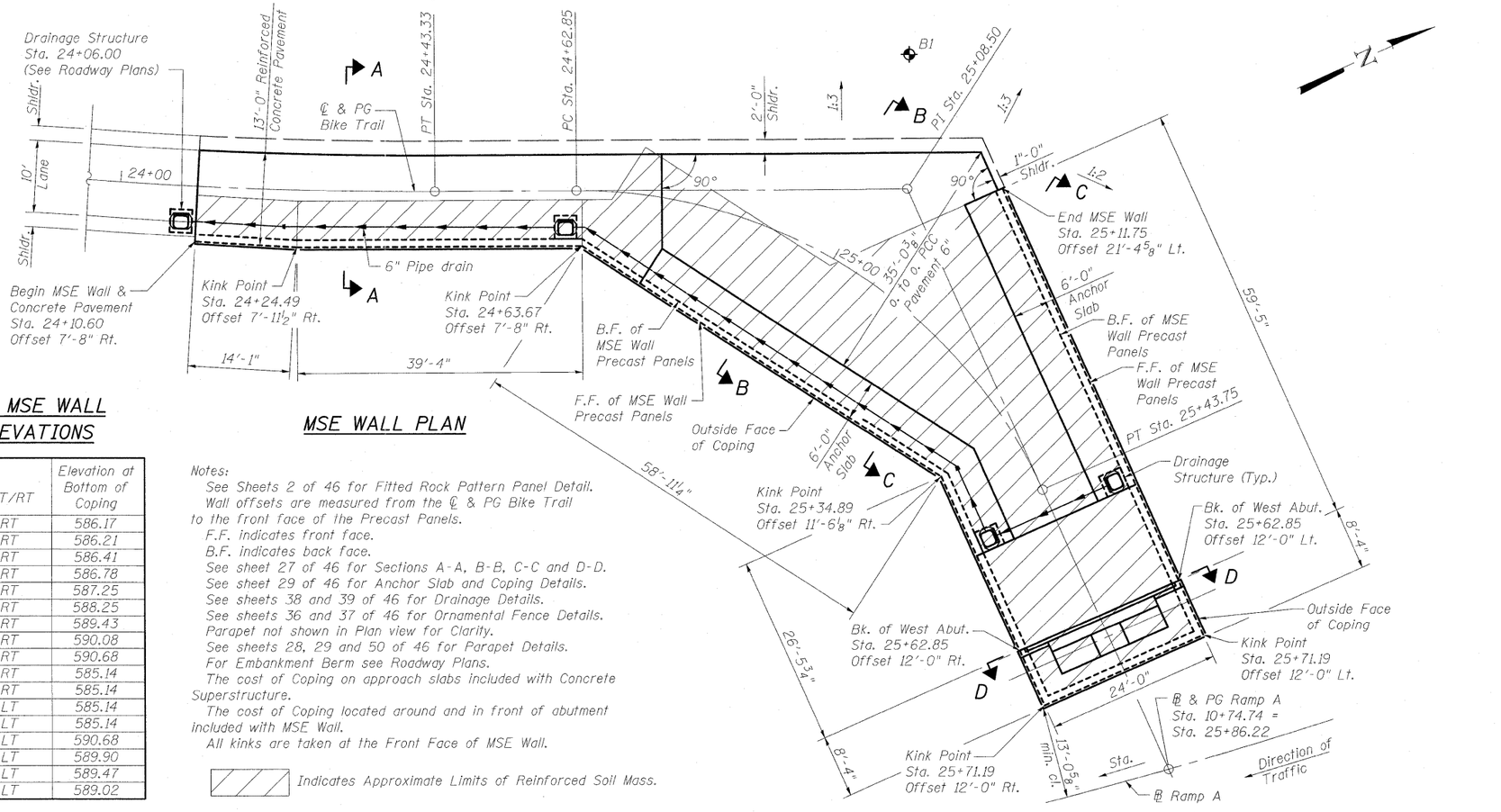
(Looking at F.F. of wall)



DETAIL A



SECTION E-E



MSE WALL PLAN

WEST APPROACH MSE WALL ADDITIONAL ELEVATIONS

Station	Offset to Face of Panel	LT/RT	Elevation at Bottom of Coping
24+10.60	7.67	RT	586.17
24+24.49	7.97	RT	586.21
24+43.91	7.67	RT	586.41
24+63.67	7.67	RT	586.78
24+85.36	15.61	RT	587.25
25+11.06	17.06	RT	588.25
25+34.89	11.53	RT	589.43
25+49.61	12.00	RT	590.08
25+62.85	12.00	RT	590.68
25+62.85	12.00	RT	585.14
25+71.19	12.00	RT	585.14
25+71.19	12.00	LT	585.14
25+62.85	12.00	LT	585.14
25+62.85	12.00	LT	590.68
25+43.14	12.00	LT	589.90
25+26.58	14.53	LT	589.47
25+11.75	21.38	LT	589.02

Notes:
See Sheets 2 of 46 for Fitted Rock Pattern Panel Detail.
Wall offsets are measured from the ℄ & PG Bike Trail to the front face of the Precast Panels.
F.F. indicates front face.
B.F. indicates back face.
See sheet 27 of 46 for Sections A-A, B-B, C-C and D-D.
See sheet 29 of 46 for Anchor Slab and Coping Details.
See sheets 38 and 39 of 46 for Drainage Details.
See sheets 36 and 37 of 46 for Ornamental Fence Details.
Parapet not shown in Plan view for Clarity.
See sheets 28, 29 and 50 of 46 for Parapet Details.
For Embankment Berm see Roadway Plans.
The cost of Coping on approach slabs included with Concrete Superstructure.
The cost of Coping located around and in front of abutment included with MSE Wall.
All kinks are taken at the Front Face of MSE Wall.

Indicates Approximate Limits of Reinforced Soil Mass.

FILE NAME = _\0774299-025601O-sht026.dgn
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Illinois Design Firm Number 184.001670	CHECKED - ACS	REVISED -
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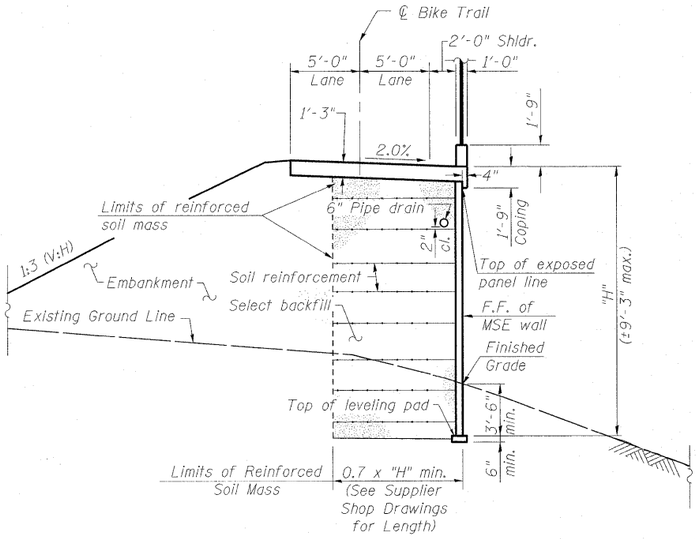
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

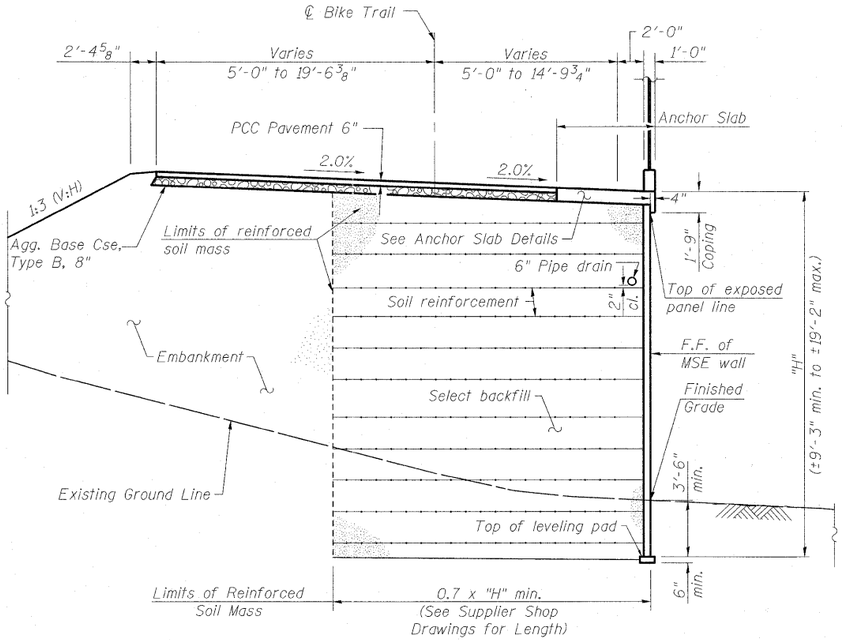
WEST MSE WALL DETAILS
STRUCTURE NUMBER 025-6010
SHEET NO. 26 OF 46 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	395
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



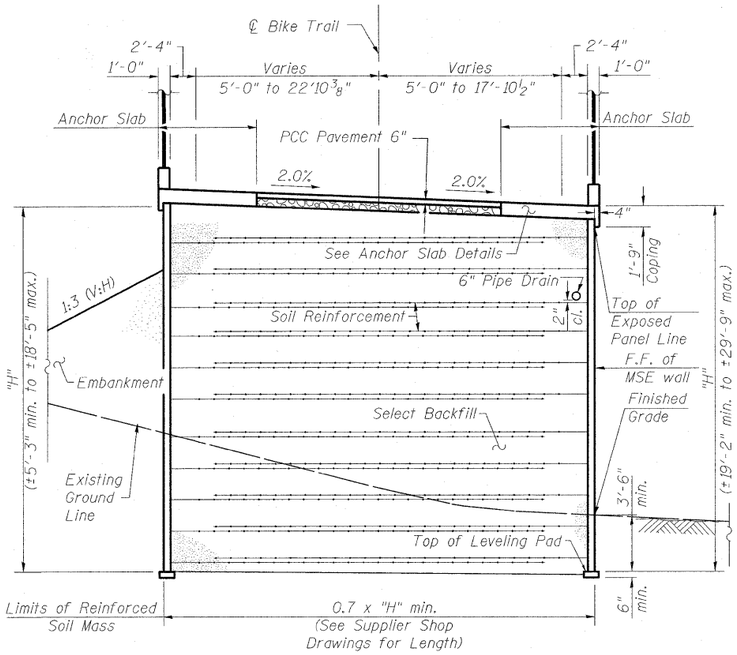
SECTION A-A
THRU MSE WALL & BIKE TRAIL

Sta. 24+10.60 to Sta. 24+63.67



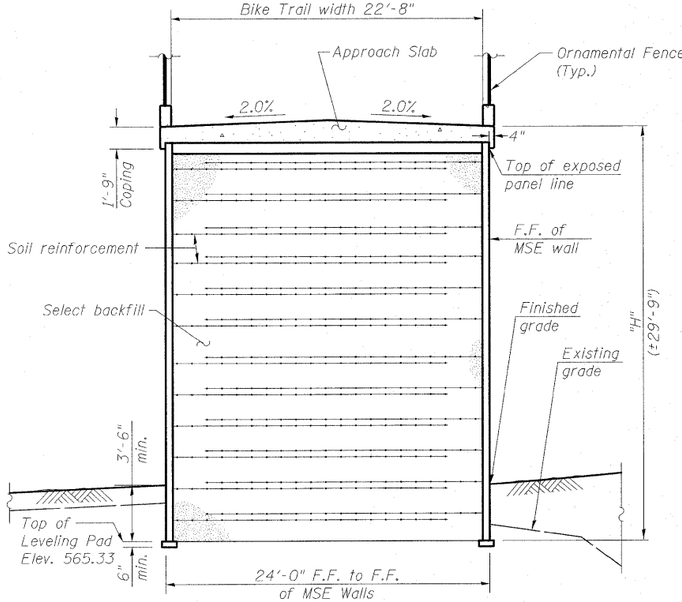
SECTION B-B
THRU MSE WALL & BIKE TRAIL

Sta. 24+63.67 to Sta. 25+11.75



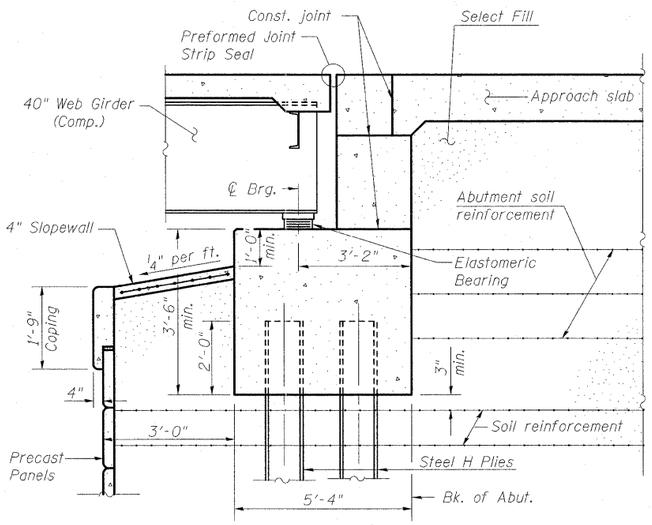
SECTION C-C
THRU MSE WALL & BIKE TRAIL

Sta. 25+11.75 to Sta. 25+34.89

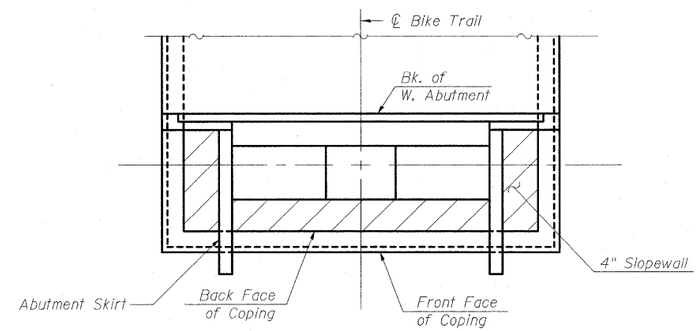


SECTION D-D
THRU MSE WALL & BIKE TRAIL

Soil Reinforcement shall be lapped as shown in Section C-C. The reinforcement shall not be attached to the back face of both panels.



SECTION THRU PILE SUPPORTED
STUB ABUTMENT



WEST ABUTMENT
SLOPEWALL LAYOUT

Notes:

The MSE Wall supplier's internal stability design shall account for the anchor slab's bearing pressure surcharge of 1.0 Ksf and horizontal sliding force of 0.5 Kips/ft. of wall.

The MSE Wall supplier's internal stability design shall account for the abutment's horizontal sliding force of 2.0 Kips/ft. of abutment length and a soil surcharge force of 1.0 Kips/ft. of abutment length.

Slopewall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

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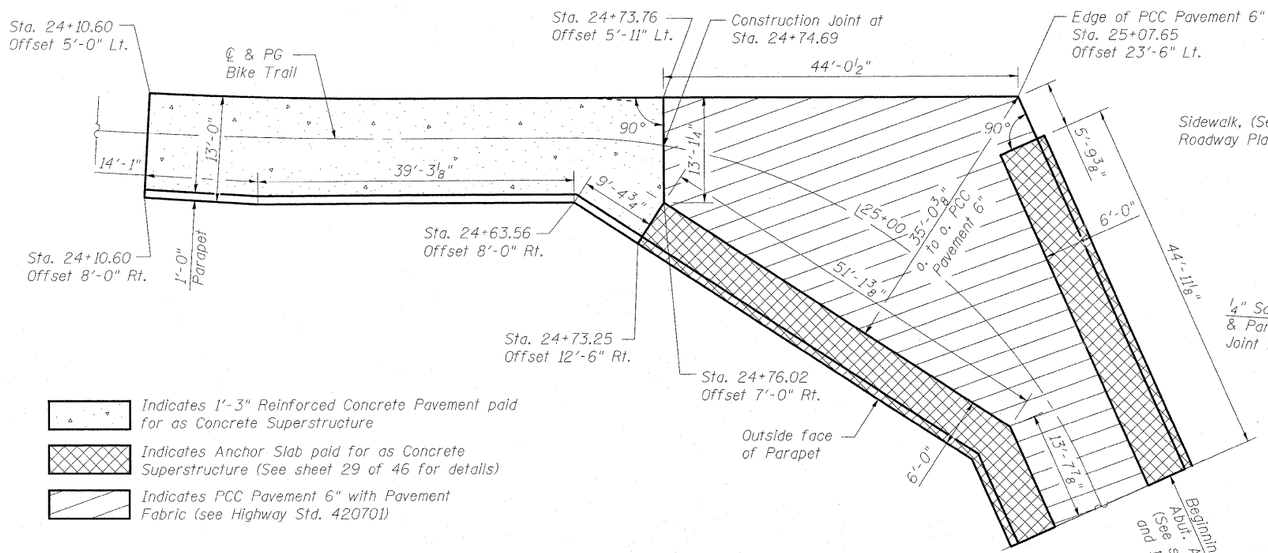
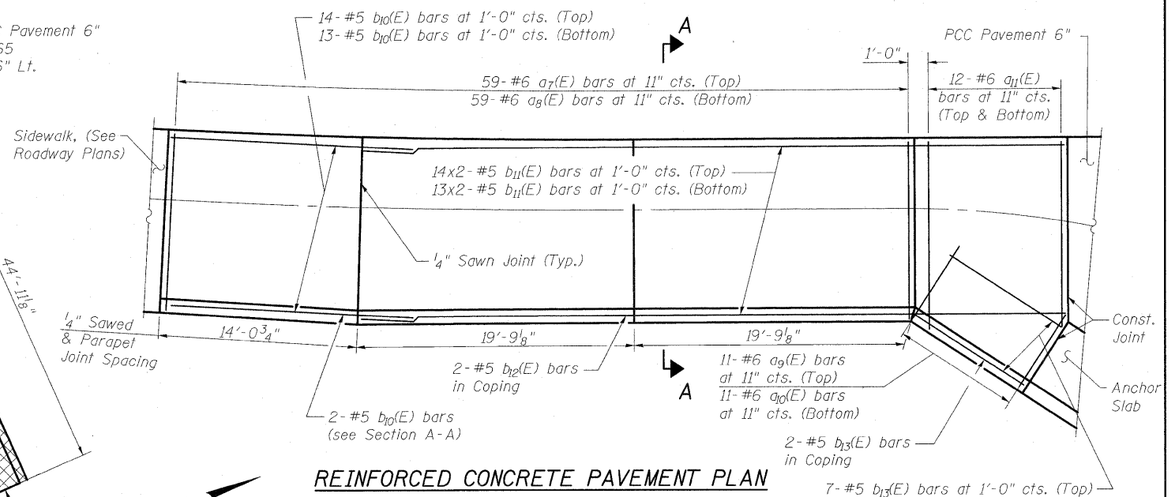
WEST MSE WALL DETAILS
STRUCTURE NUMBER 025-6010
SHEET NO. 27 OF 46 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	396
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

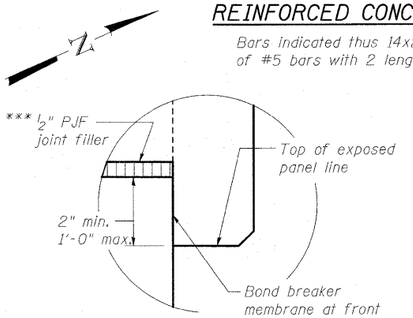


WEST APPROACH PLAN



REINFORCED CONCRETE PAVEMENT PLAN

Bars Indicated thus 14x2-#5 etc. indicates 14 lines of #5 bars with 2 lengths per line.

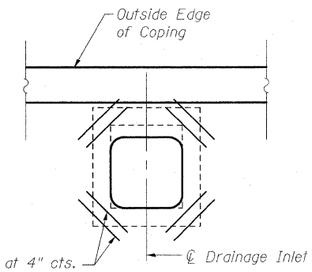


*** Contractor shall ensure that the top of the PJF is clear of select fill or other debris before placing anchorage slab concrete.

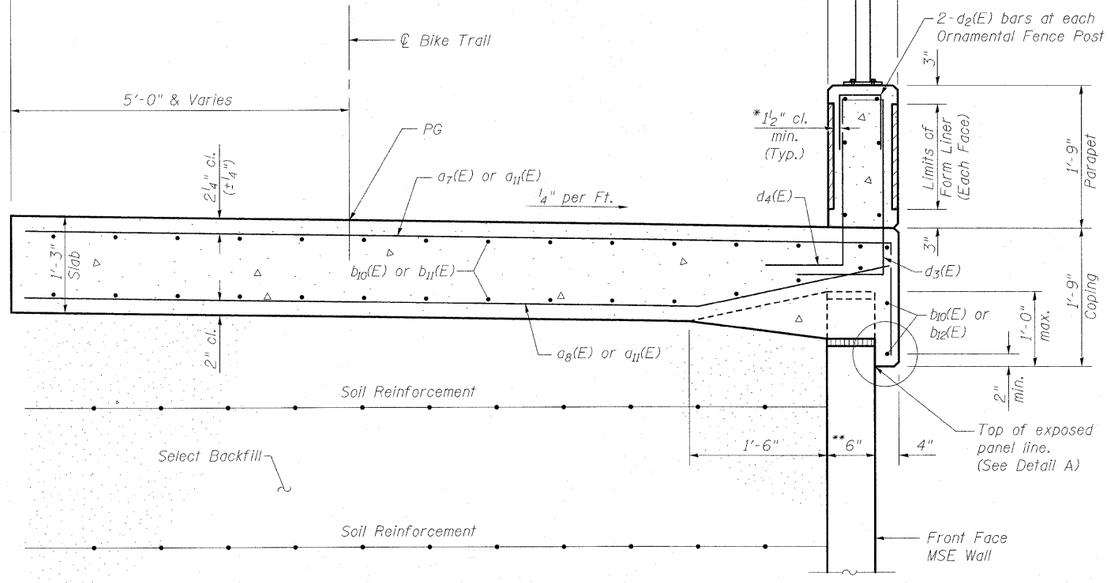
DETAIL A

MIN. BAR LAP

#5 Bar = 2'-6"



DETAIL AT DRAINAGE STRUCTURES

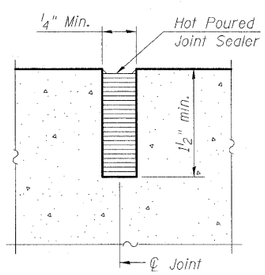


SECTION A-A

Sta. 24+10.60 to Sta. 24+63.67

*Minimum clearance from inner most surface of Form Liner.

** Varies per MSE Wall supplier



SAWED CONTRACTION JOINT DETAIL

Joints shall be included in cost of Concrete Superstructure.

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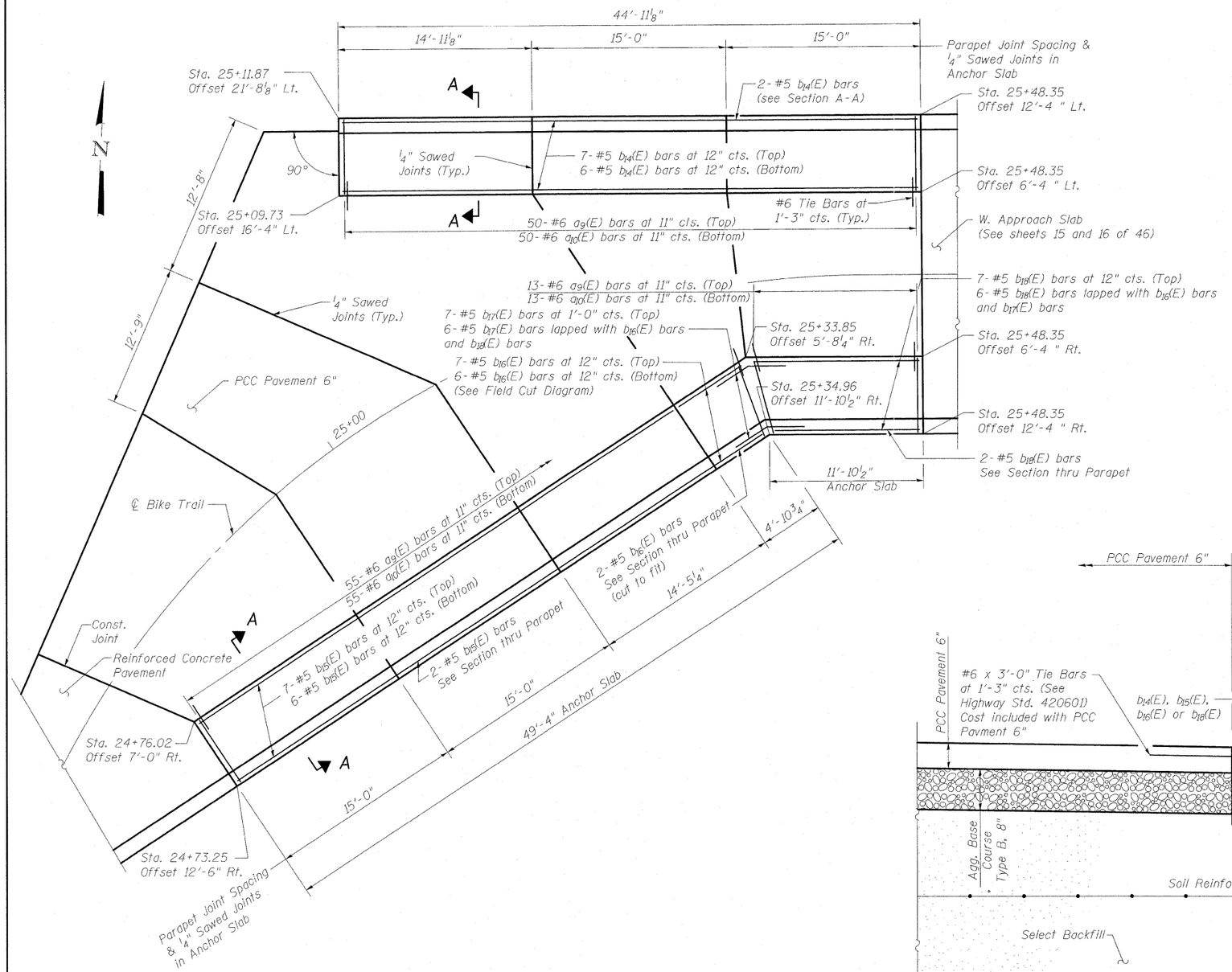
DESIGNED -	BB	REVISED -
CHECKED -	ACS	REVISED -
DRAWN -	WJS	REVISED -
CHECKED -	CJF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST APPROACH PAVEMENT DETAILS
STRUCTURE NUMBER 025-6010
SHEET NO. 28 OF 46 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	397
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



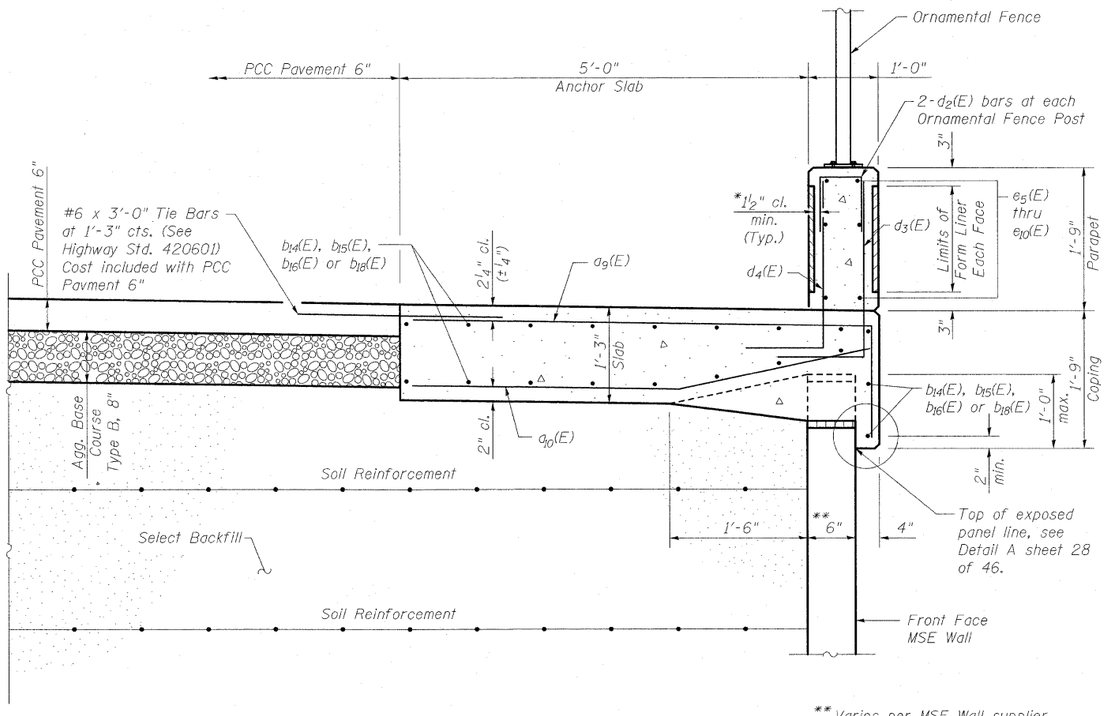
WEST APPROACH ANCHOR SLAB DETAILS

MIN. BAR LAP

#5 Bar = 2'-6"

Notes:

Parapet reinforcement not shown for clarity.
See sheet 2 of 46 for Form Liner Details.
See sheets 38 and 39 of 46 for Drain Inlet Spacing & Reinforcement.
**Minimum clearance from inner most surface of Form Liner.*
See sheet 28 of 46 for Sawed Joint Details.
See sheet 28 of 46 for PCC Pavement 6" Plan Dimensions.



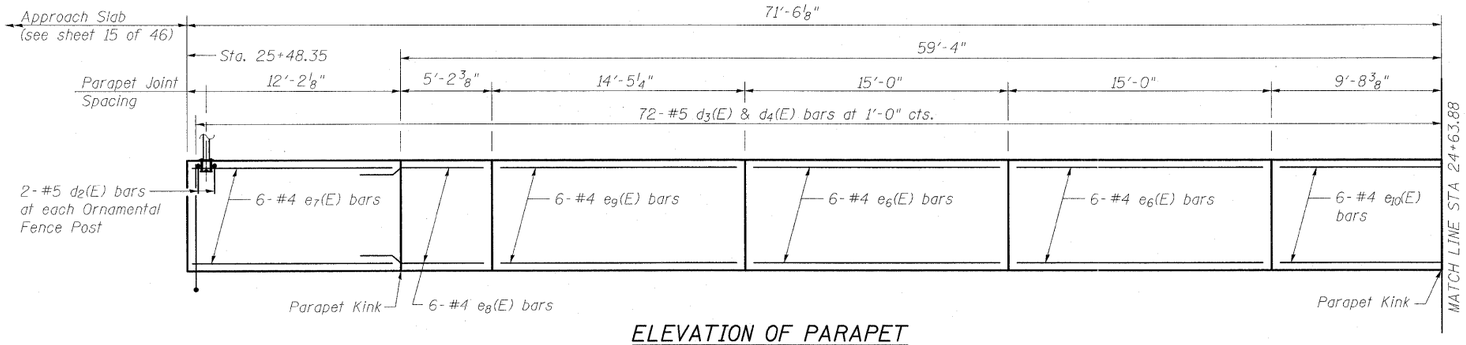
SECTION A-A

Sta. 24+73.25 to Sta. 25+48.35

** Varies per MSE Wall supplier

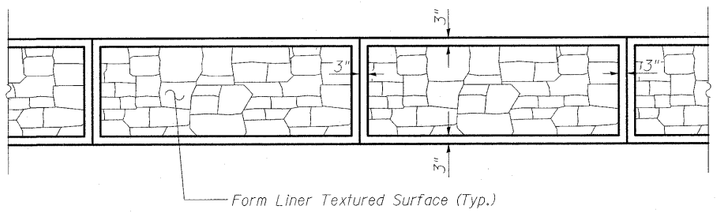
FILE NAME = _\D774299-0256010-sht029.dgn	USER NAME =	DESIGNED - BB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEST APPROACH ANCHOR SLAB DETAILS STRUCTURE NUMBER 025-6010
BERNARDIN · LOCHMUELLER & ASSOCIATES, INC. 3 OAK DRIVE MARYVILLE, ILLINOIS 62062 PHONE (618) 288-4655 FAX (618) 288-4656	Illinois Design Firm Number 184.001670	CHECKED - ACS	REVISED -		SHEET NO. 29 OF 46 SHEETS
	PLOT SCALE =	DRAWN - WJS	REVISED -		
	PLOT DATE = 7:46:58 AM 5/6/2011	CHECKED - CJF	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	398
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



ELEVATION OF PARAPET

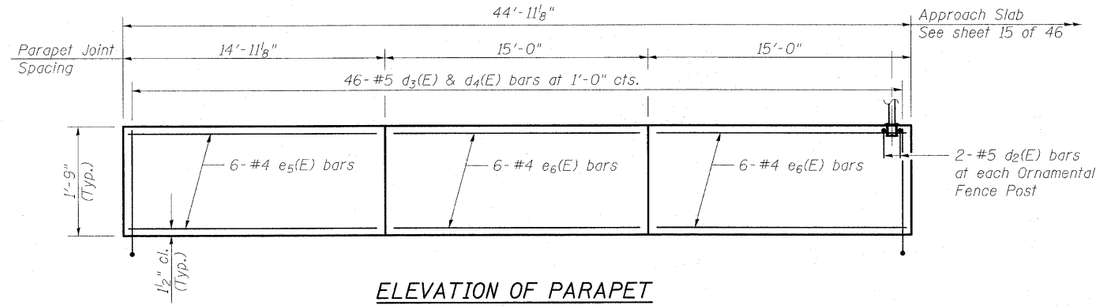
Right Parapet inside Elevation
Sta. 24+63.88 to Sta. 25+48.35



FORM LINER TEXTURED SURFACE APPLICATION

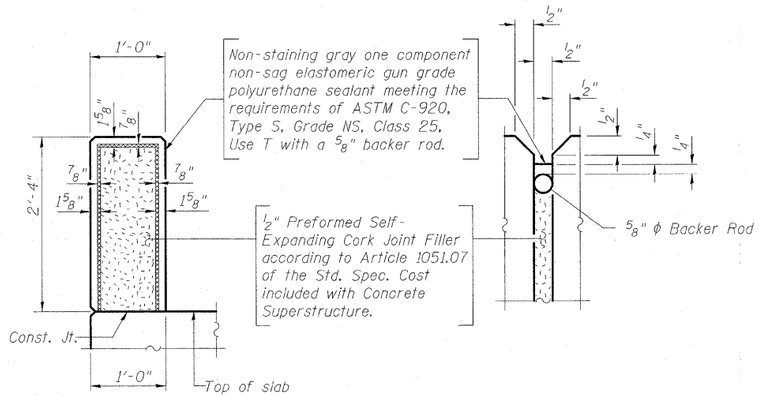
(Each Face)
See sheet 2 of 46 for Form Liner Textured Surface Details.

Note:
Dimensions shown are taken along inside face of parapet.

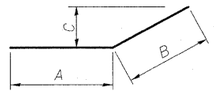


ELEVATION OF PARAPET

Left Parapet inside Elevation
Sta. 25+11.87 to Sta. 25+48.35

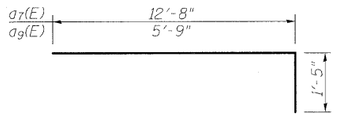


PARAPET JOINT DETAILS

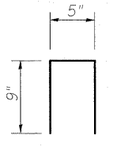


BARS

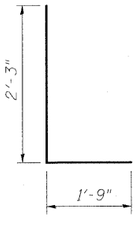
Bar	A	B	C
a8(E)	10'-3"	2'-5"	4 1/2"
a10(E)	3'-4"	2'-5"	4 1/2"
b17(E)	2'-6"	2'-6"	1'-4 3/8"
e8(E)	4'-8"	2'-0"	1'-1"
e10(E)	9'-3"	2'-0"	1'-1"



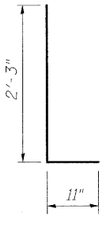
BARS a7(E) & a9(E)



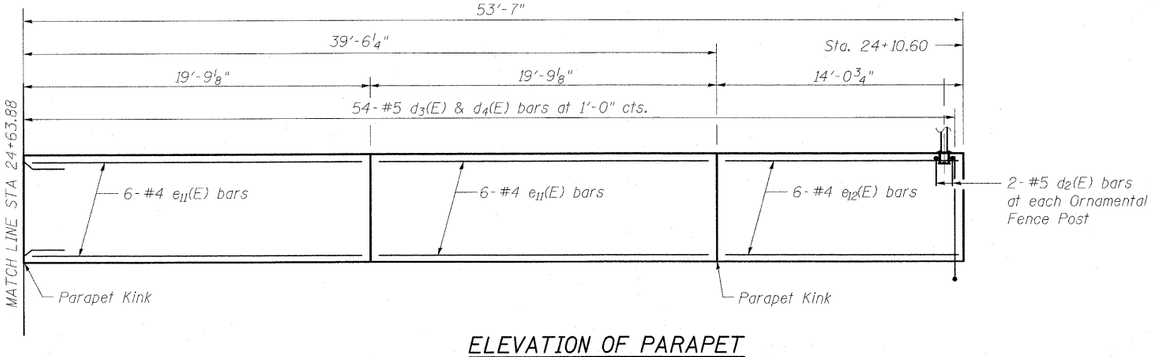
BAR d2(E)



BAR d3(E)



BAR d4(E)



ELEVATION OF PARAPET

Right Parapet inside Elevation
Sta. 24+10.60 to Sta. 24+63.88

WEST APPROACH BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a7(E)	59	#6	14'-1"	
a8(E)	59	#6	12'-8"	
a9(E)	129	#6	7'-2"	
a10(E)	129	#6	5'-9"	
a11(E)	24	#6	12'-10"	
a12(E)	24	#5	1'-6"	
b10(E)	29	#5	13'-10"	
b11(E)	54	#5	26'-5"	
b12(E)	2	#5	39'-5"	
b13(E)	15	#5	9'-2"	
b14(E)	15	#5	44'-8"	
b15(E)	15	#5	44'-2"	
b16(E)	15	#5	6'-5"	
b17(E)	15	#5	5'-0"	
b18(E)	15	#5	13'-5"	
d2(E)	52	#5	1'-11"	
d3(E)	172	#5	4'-0"	
d4(E)	172	#5	3'-2"	
e5(E)	6	#4	14'-8"	
e6(E)	24	#4	14'-9"	
e7(E)	6	#4	11'-7"	
e8(E)	6	#4	6'-8"	
e9(E)	6	#4	14'-2"	
e10(E)	6	#4	11'-3"	
e11(E)	12	#4	19'-6"	
e12(E)	6	#4	13'-9"	
Aggregate Base Cse. Type B, 8"		Sq. Yd.	170	
Concrete Superstructure		Cu. Yd.	84.7	
Form Liner Textured Surface		Sq. Ft.	410	
Reinforcement Bars, Epoxy Coated		Pound	11,360	
Mechanically Stabilized Earth Retaining Wall		Sq Ft.	4150	
Structure Excavation		Cu. Yd.	455	
Portland Cement Concrete Pavement 6"		Sq. Yd.	170	
Pavement Fabric		Sq. Yd.	170	

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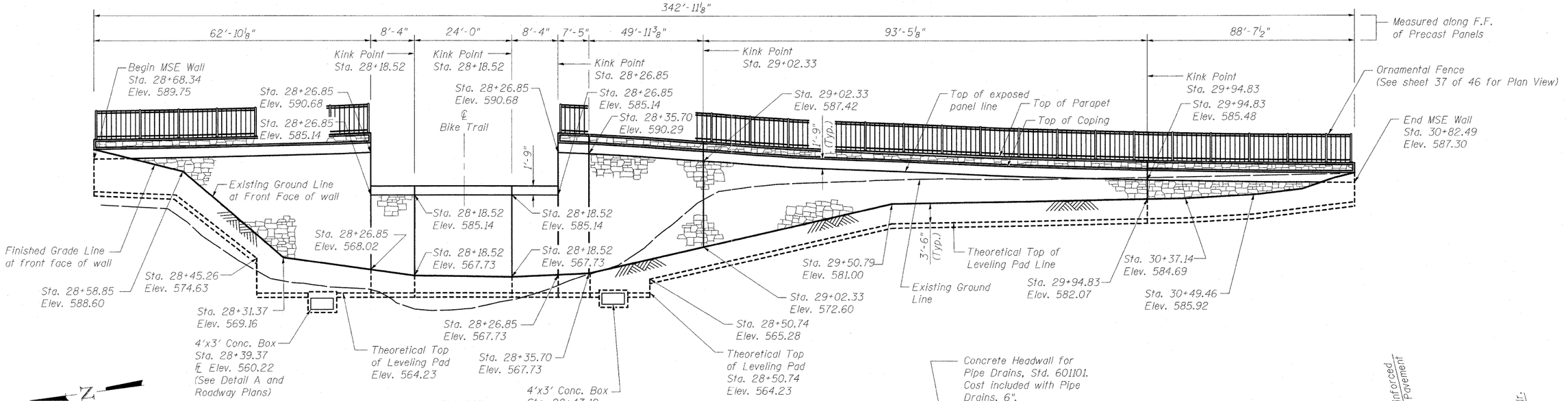
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST APPROACH PARAPET DETAILS
STRUCTURE NUMBER 025-6010
SHEET NO. 30 OF 46 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	399
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



MSE WALL PLAN

Notes:
See sheet 2 of 46 for Fitted Rock Pattern Panel Detail.
Wall offsets are measured from the ℄ & PG Bike Trail to the front face of the Precast Panels.
F.F. indicates front face.
See sheet 32 of 46 for Sections A-A, B-B, C-C and D-D.
See sheet 34 of 46 for Anchor Slab and Coping Details.
See sheets 38 and 40 of 46 for Drainage Details.
See sheets 36 and 37 of 46 for Ornamental Fence Details.
Parapet not shown in Plan view for Clarity.
See sheet 34 of 46 for Parapet Details.
For Embankment Berm see Roadway Plans.
For Detail A see sheet 26 of 46.

Indicates Approximate Limits of Reinforced Soil Mass.

EAST APPROACH MSE WALL ADDITIONAL ELEVATIONS

Station	Offset to Face of Panel	LT/RT	Elevation at Bottom of Coping
28+68.34	36.05	LT	589.75
28+57.94	23.10	LT	589.96
28+43.98	14.50	LT	590.06
28+26.85	12.00	LT	590.68
28+26.85	12.00	LT	584.14
28+18.52	12.00	LT	584.14
28+18.52	12.00	RT	584.14
28+26.85	12.00	RT	584.14
28+26.85	12.00	RT	590.68
28+35.70	11.84	RT	590.29
28+57.98	18.15	RT	589.16

Station	Offset to Face of Panel	LT/RT	Elevation at Bottom of Coping
28+83.59	16.44	RT	588.07
29+02.33	7.67	RT	587.42
29+21.01	7.67	RT	586.65
29+39.70	7.67	RT	586.05
29+58.38	7.67	RT	585.65
29+77.07	7.67	RT	585.47
29+94.83	8.36	RT	585.48
30+16.02	7.67	RT	585.66
30+38.18	7.67	RT	586.11
30+60.33	7.67	RT	586.70
30+82.49	7.67	RT	587.30

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PLOT DATE = 1:34:24 PM 5/18/2011

DESIGNED - BB | CHECKED - ACS | DRAWN - WJS | CHECKED - CJF
REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST MSE WALL DETAILS
STRUCTURE NUMBER 025-6010
SHEET NO. 31 OF 46 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-3)PB	EFFINGHAM	1098	400
	SN 025-6010	CONTRACT NO. 74299		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		