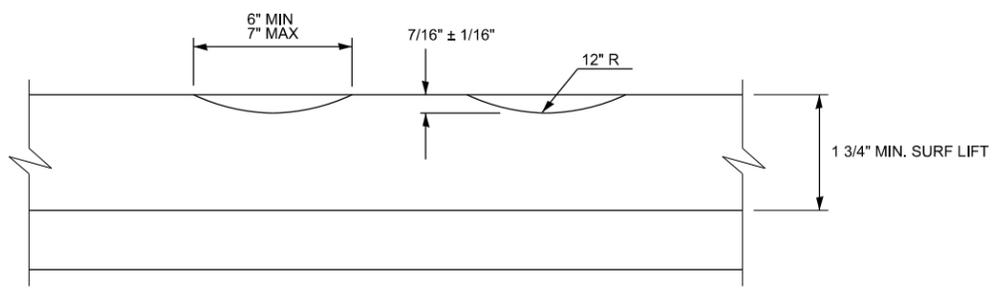


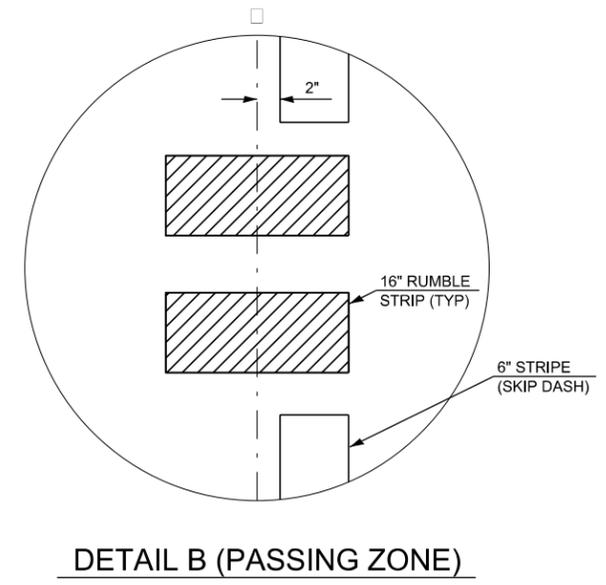
DETAIL B (NO PASSING ZONE)

DETAIL B (SINGLE DIRECTION PASSING ZONE)



SECTION A-A

NOTES:  
 RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.  
 ALL RUMBLE STRIPS SHALL BE MILLED.  
 CENTERLINE RUMBLE STRIPS SHALL BE CONTINUOUS THROUGH INTERSECTIONS WITH NO MAJOR ROUTE LEFT TURN LANES.  
 DISCONTINUE CENTERLINE RUMBLE STRIPS THROUGH THE TAPER AND STORAGE LIMITS OF ALL LEFT TURN LANES.  
 WHERE USED, ADJUST SPACING OF RAISED REFLECTIVE PAVEMENT MARKERS TO FALL IN WIDER GAP BETWEEN RUMBLE STRIPS.



DETAIL B (PASSING ZONE)

600-1

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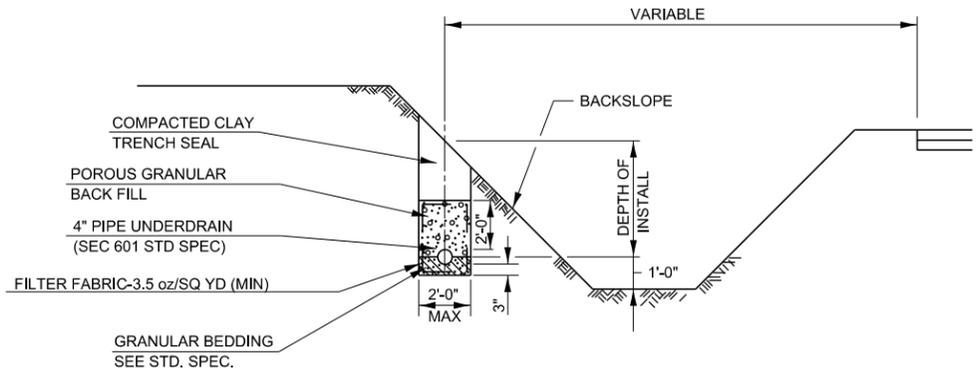
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PLOT DATE = 10/3/23	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CENTERLINE RUMBLE STRIP DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	-	-	-	-
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**BACKSLOPE DRAIN**

601-1

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**GENERAL**

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

THIS SPECIFICATION COVERS SLOTTED DRAIN USED FOR THE REMOVAL OF WATER AS SHOWN ON THE PLANS.

THE SLOTTED DRAIN SHALL BE CORRUGATED PIPE CULVERT WITH INTEGRAL SLOTTED DRAINS.

BEFORE PLACING THE CONCRETE ADJACENT TO THE PIPE, THE SLOT SHALL BE COVERED BY EITHER THIN, FLAT METAL SHEETING OR BY A BOARD NOTCHED TO FIT OVER THE GRATE BARS. THIS COVERING MUST FIT CLOSELY IN THE SLOT TO PREVENT ENTRY OF CONCRETE INTO THE PIPE. PAVING OVER THE SLOTTED DRAIN WILL THEN BE ONE CONTINUOUS OPERATION OVER THE PROTECTED DRAIN. THE PROTECTION FOR THE DRAIN SLOT SHALL THEN BE REMOVED. THE PIPE SHALL DRAIN INTO THE SIDE OF THE INLET. THE OPENING WHERE THE SLOT IS REMOVED SHALL BE COVERED TO PREVENT CONCRETE FROM ENTERING THE PIPE.

THE CORRUGATED STEEL PIPE USED IN THE SLOTTED DRAIN SHALL MEET THE REQUIREMENTS OF AASHTO M36/ ASTM A760.

THE CMP SHALL BE ALUMINIZED STEEL TYPE 2.

THE DIAMETER AND GAGE SHALL BE AS SHOWN ON THE PLAN.

STEEL GRATING SHALL MEET THE GALVANIZING REQUIREMENTS OF AASHTO A123.

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR SLOTTED DRAIN 15" WITH 1 3/4" SLOT, AND SHALL INCLUDE ELBOWS, DRILLING HOLES IN GRATING, SUPPLYING AND PLACING A1 BARS, AND CONCRETE AND GRATING FOR DEPTH SPECIFIED ON PLANS.

USE APPROVED END CAP TO PREVENT CONCRETE ENTRY INTO THE PIPE DURING GUTTER CONSTRUCTION ON THE UPSTREAM END OF THE PIPE.

**CONNECTIONS**

THE CORRUGATED STEEL PIPE SHALL HAVE A MINIMUM OF TWO REROLLED ANNULAR ENDS.

THE SLOTTED DRAIN BANDS SHALL BE MODIFIED HUGGER BANDS TO SECURE THE PIPE AND PREVENT INFILTRATION OF THE BACKFILL.

WHEN THE SLOTTED DRAIN IS BANDED TOGETHER, THE ADJACENT GRATES SHALL HAVE A MAXIMUM 3" GAP.

**GRATES**

THE GRATES SHALL BE MANUFACTURED FROM ASTM A670, GRADE 36 STEEL. THE SPACERS AND BEARING BARS (SIDES) SHALL BE 3/16" MATERIAL ±0.008".

THE SPACERS SHALL BE ON 6" CENTERS AND WELDED ON BOTH SIDES TO EACH BEARING BAR (SIDES) WITH FOUR (4) 1 1/4" LONG 3/16" FILLET WELDS ON EACH SIDE OF THE BEARING BAR.

THE PLATE EXTENDER SHALL BE 7 GAGE STEEL MEETING ASTM A761.

THE ENGINEER MAY CALL FOR TENSILE STRENGTH TESTS ON THE GRATE IF THE GRATE IS NOT IN COMPLIANCE WITH THE ABOVE SPACER SPECIFICATIONS. IF TENSILE STRENGTH TESTS ARE CALLED FOR, MINIMUM RESULTS FOR AN IN-PLACE SPACER PULLED PERPENDICULAR TO THE BEARING BAR SHALL BE:  
 T = 12,000 POUNDS FOR 2 1/2" GRATE  
 T = 15,000 POUNDS FOR 6" GRATE

**GALVANIZING**

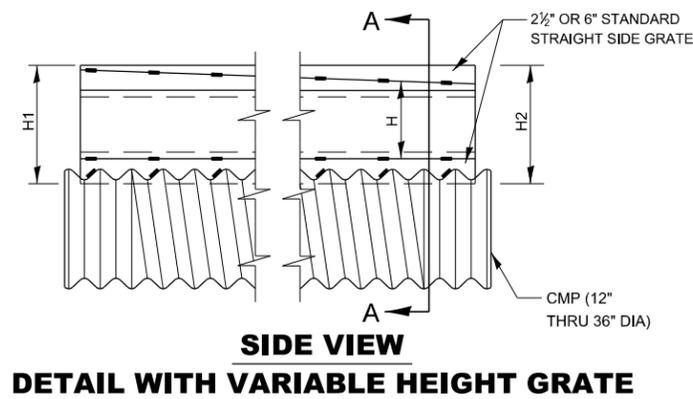
THE GRATE AND PLATE EXTENDERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 EXCEPT WITH A 2 OZ GALVANIZED COATING.

**GRATE ATTACHED TO CSP**

THE GRATE SHALL BE FILLET WELDED WITH A MINIMUM WELD 1" LONG TO THE CSP ON EACH SIDE OF THE GRATE AT EVERY OTHER CORRUGATION.

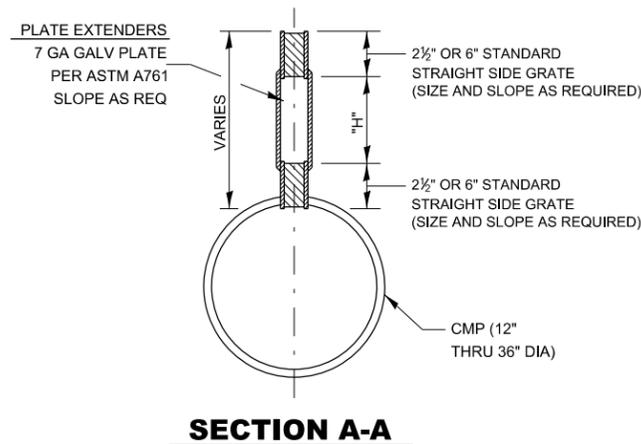
**TOLERANCES - FINISHED SLOTTED DRAIN - 20' LENGTH**

VERTICAL BOW = ±3/8"  
 HORIZONTAL BOW = ±5/8"  
 TWIST = ±1/2"



LOADING CONDITION	MAX. EXTENDER HEIGHT - "H"
H20/H25 750 PSI CONCRETE	19"

\* 125 PSI TIRE PRESSURE



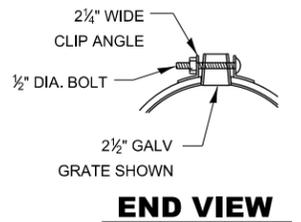
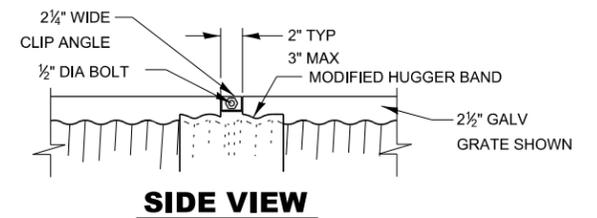
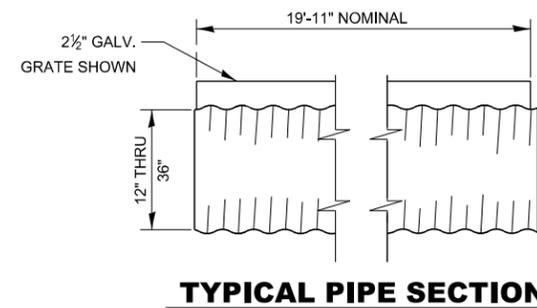
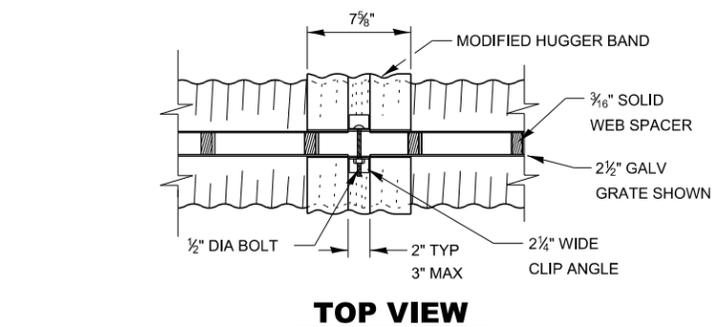
GAGE OF PIPE	DIAMETER OF PIPE					
	12"	15"	18"	24"	30"	36"
16	X	X	X	X	X	X
14	X	X	X	X	X	X
12	NA	NA	NA	NA	X	X

GRATE TYPE	"A"	
VERT	2 1/2"	1 3/4"
VERT	6"	1 3/4"
TRAP	2 1/2"	2 1/4"
TRAP	6"	3"

VERT = VERTICAL  
TRAP = TRAPEZOIDAL

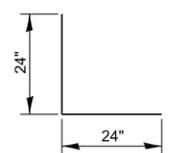
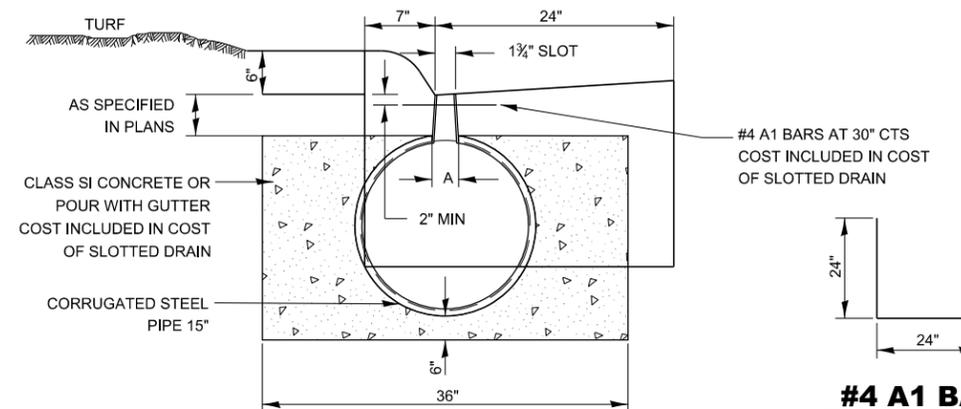
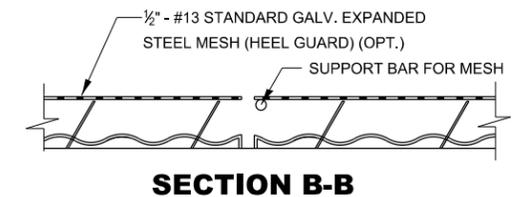
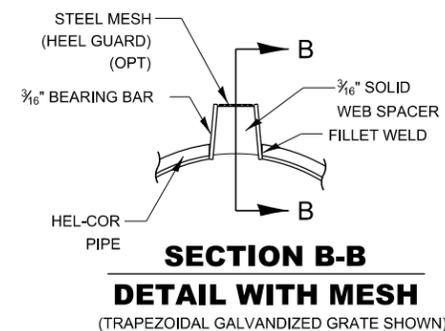
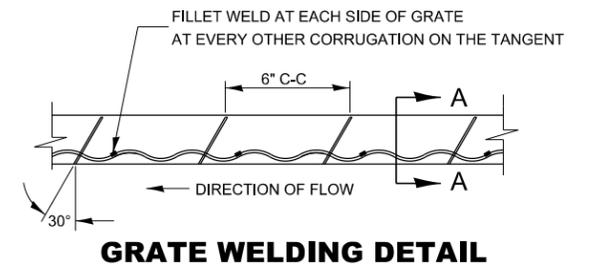
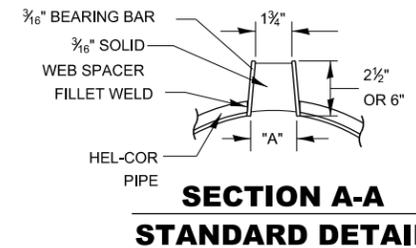
**SLOTTED DRAIN NOTES**

- GRATING IS AVAILABLE IN DEPTHS OF 2 1/2" AND 6".
- VERTICAL GRATING (STRAIGHT SIDES) WITH VERTICAL SPACERS IS ALSO AVAILABLE.
- FOR 6" VERTICAL & TRAPEZOIDAL REQUIREMENTS, THE SLOTTED DRAIN BAND MAY BE FURNISHED WITH THE 4: TECHCO BAND ANGLE.
- DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- REFERENCE CONTECH BAND MANUAL DWG NO 1002697 FOR BAND DETAILS.
- REFERENCE CONTECH SLOTTED DRAIN DWG NO 1002697.
- DIMENSIONS FOR H1 AND H2 AS REQUIRED.
- H1 AND H2 MEASURED FROM TOP OF GRATE TO BOTTOM OF GRATE.



**GAP PLATE (OPTIONAL)**

MAY BE PLACED DIRECTLY OVER BAND BOLT TO PROVIDE CONTINUOUS FORM FOR GROUTING



**#4 A1 BARS 601-2**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SLOTTED DRAIN PIPE

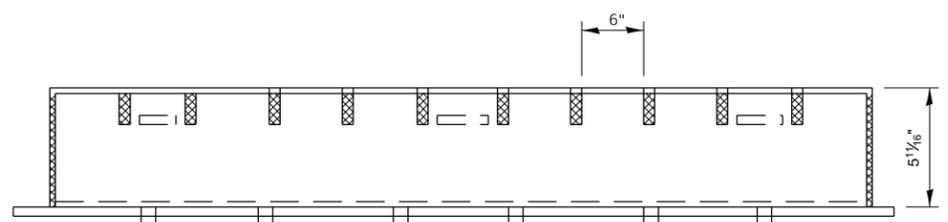
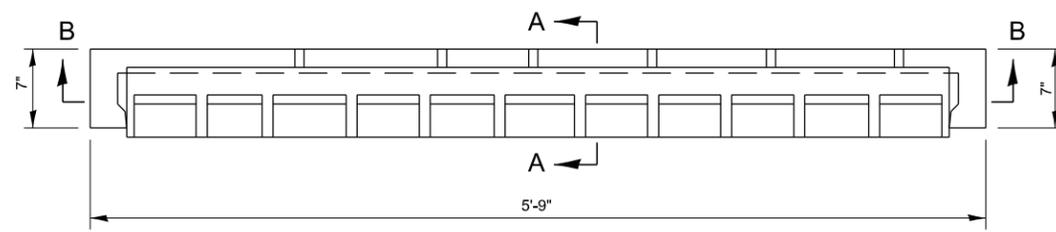
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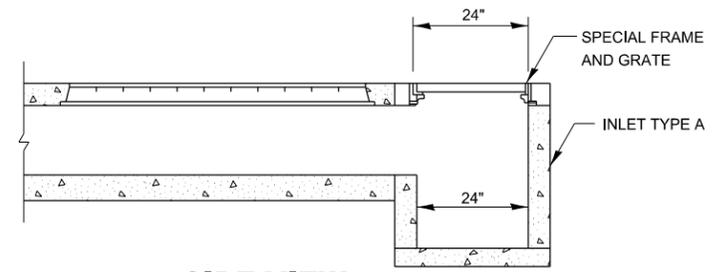
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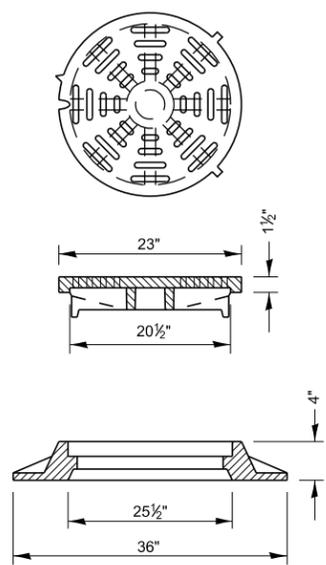


**SECTION B-B**

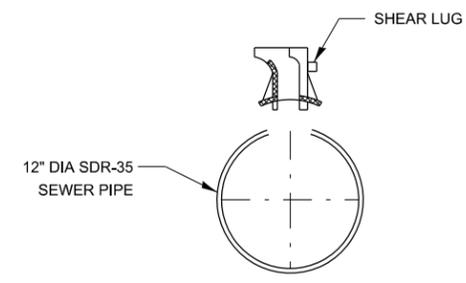


**SIDE VIEW**

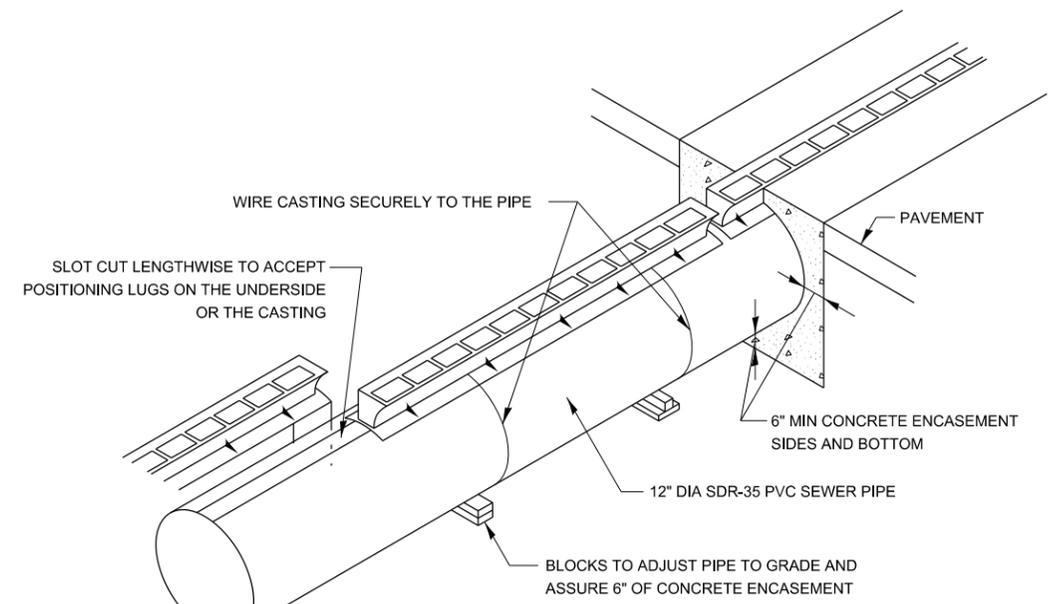
**SPECIAL FRAME AND GRATE**



TOTAL WEIGHT 285 LBS



**SECTION A-A**



**GENERAL NOTES:**

- CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
- THE CONTRACT UNIT PRICE PER FOOT FOR SLOTTED DRAIN 12" WITH 6" SLOT SHALL INCLUDE THE GRATE, CLASS SI CONCRETE, SDR-35 PVC 12" SEWER PIPE, BLOCKS, WIRE AND EXCAVATION.
- THE INLET TYPE A TO BE IN ACCORDANCE WITH STANDARD 602301.
- THE CONTRACT UNIT PRICE EACH FOR INLETS, TYPE A, WITH SPECIAL FRAME, OPEN LID SHALL INCLUDE A TYPE A INLET AND THE SPECIAL FRAME AND GRATE DETAILED ABOVE.

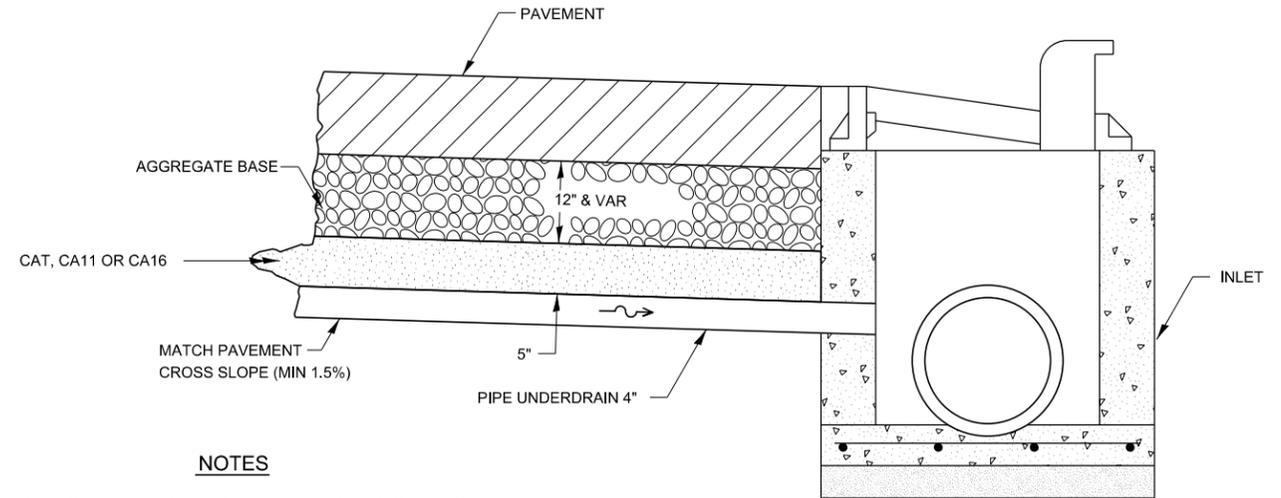
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF SLOTTED VANE DRAIN  
12" WITH 6" SLOT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**NOTES**

DRAINS WILL BE REQUIRED AT ALL INLETS IN "SAG" AREAS AND AS INDICATED IN THE PLANS.

THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PIPE UNDERDRAINS OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CAT, CA11 OR CA16 AND THE CONNECTION TO THE INLET.

**DESIGNER NOTE:**  
ONLY TO BE USED AT RECOMMENDATION OF MATERIALS

601-4

**DRAIN FOR AGGREGATE BASES IN URBAN AREAS**

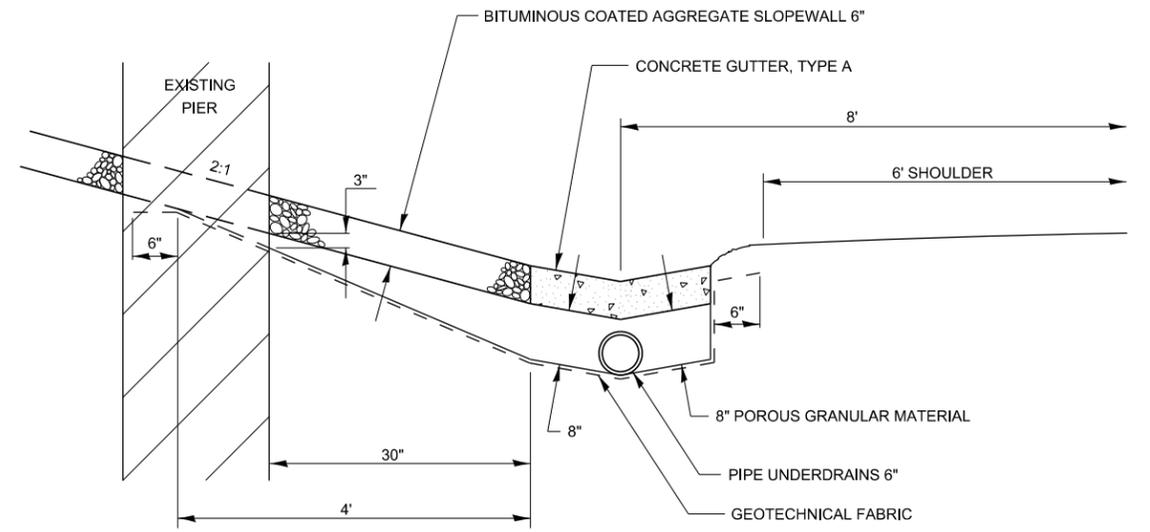
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**AGGREGATE SLOPEWALL DRAIN**

601-5

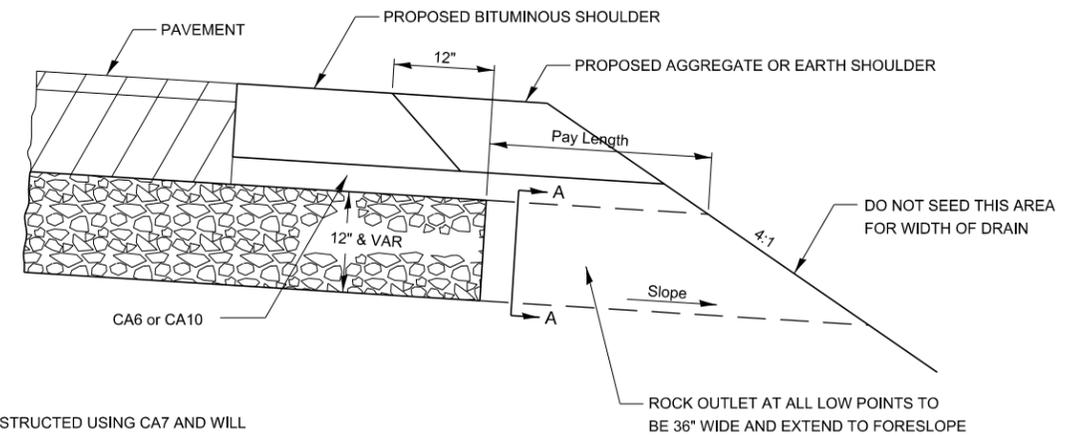
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**NOTES:**

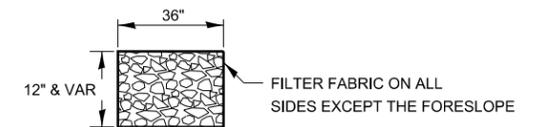
THE ROCK OUTLETS SHALL BE CONSTRUCTED USING CA7 AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ YD FOR DRAIN FOR AGGREGATE BASE COURSE.

THE THICKNESS SHALL BE THE SAME AS THE ADJACENT SUB-BASE MATERIAL AS NOTED ON THE PLANS AND SHALL INCLUDE THE COST OF THE FILTER FABRIC.

THE ROCK OUTLETS WILL BE MEASURED IN SQ YD, THE WIDTH BEING 3' BY THE LENGTH SHOWN ABOVE

THE COST OF THE CA6 OR CA10 UNDER THE SHOULDER SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQ YD FOR SUB-BASE GRANULAR MATERIAL, TYPE A OF THE THICKNESS SPECIFIED.

THE FILTER FABRIC TO BE USED SHALL CONFORM TO THE FILTER FABRIC USED FOR RIPRAP.



**SECTION A-A**

NOTE: SLOPE SAME AS SHOULDER WITH 2% MIN

**DRAIN FOR AGGREGATE BASE COURSE**

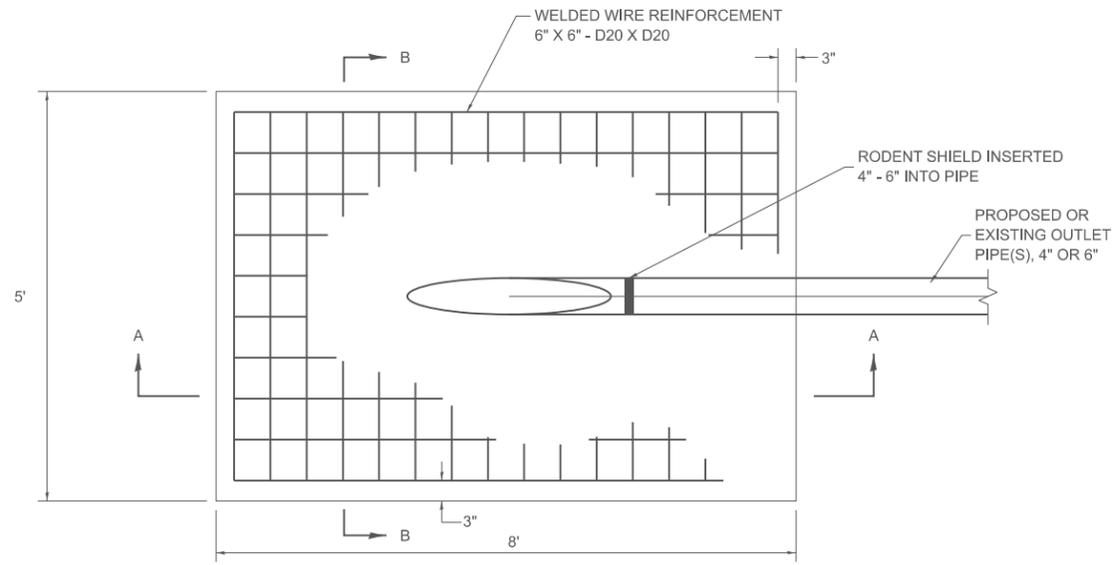
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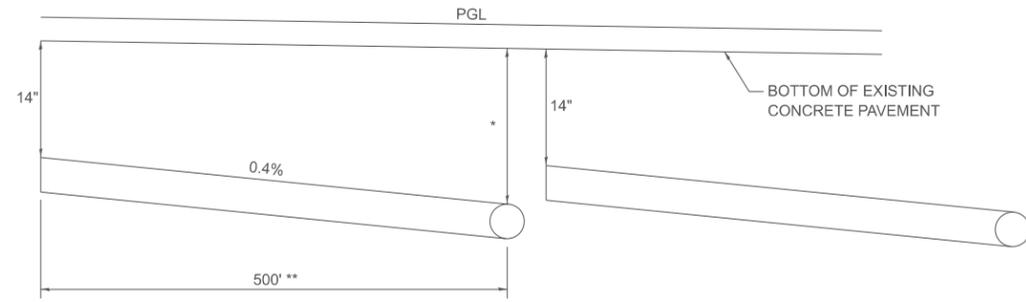
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

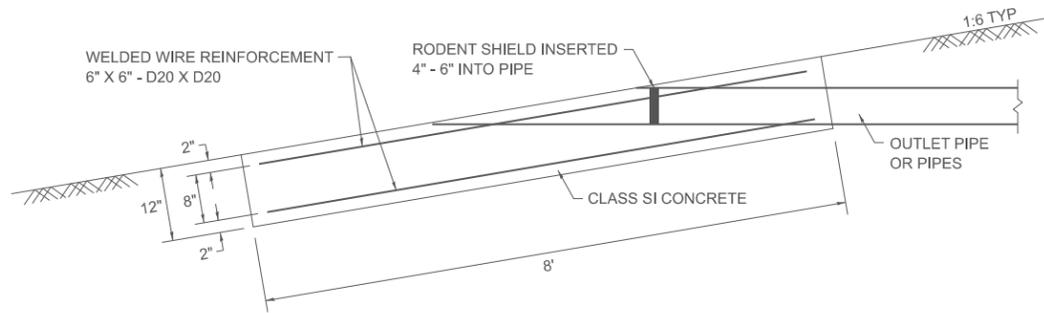
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								ILLINOIS FED. AID PROJECT				



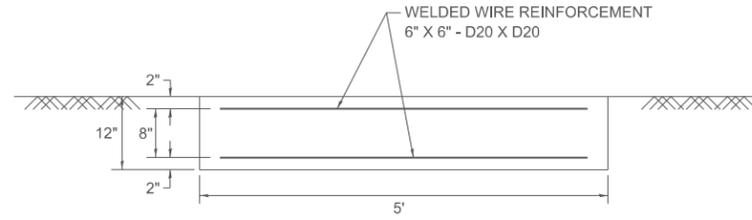
PLAN VIEW



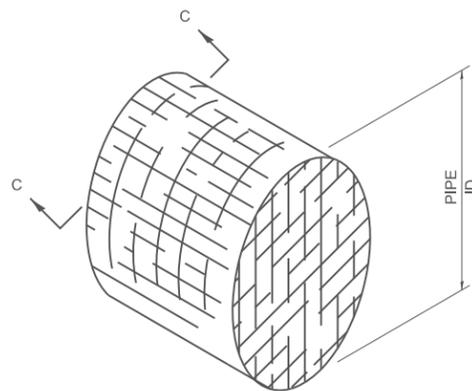
PIPE UNDERDRAIN DETAIL  
(USE WHEN PGL IS LESS THAN 0.4%)



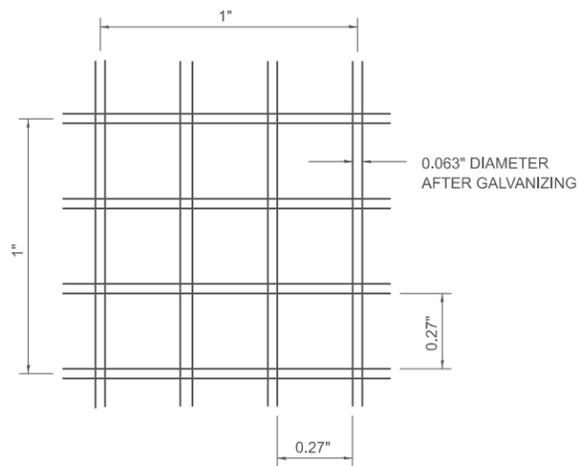
SECTION A-A



SECTION B-B



DETAIL OF RODENT SHIELD



SECTION C-C

**NOTES**

- THE OUTLET PIPE OR PIPES SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE CENTER OF THE OUTLET PROTECTOR.
- THE LAST 10' OF OUTLET PIPE SHALL BE SCHEDULE 40 PVC ACCORDING TO ARTICLE 1040.03 OF THE STANDARD SPECIFICATIONS.
- THE REINFORCEMENT WIRE MAY BE CUT TO ACCOMMODATE PIPE.
- CUT OUTLET PIPE ON A BEVEL TO MATCH FINISHED SURFACE OF SURROUNDING PCC.
- SEEDING CLASS 2 SHALL BE CONSIDERED INCLUDED IN THE COST OF PAY ITEMS.

**OUTLET PROTECTOR BILL OF MATERIALS**

ITEM	UNIT	QUANTITY (EACH OUTLET PROTECTOR)
CLASS SI CONCRETE (MISCELLANEOUS)	CU YD	1.5
WELDED WIRE REINFORCEMENT	SQ FT	67.5

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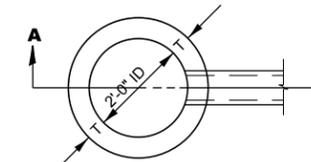
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONCRETE HEADWALLS FOR PIPE UNDERDRAIN (SPECIAL)**

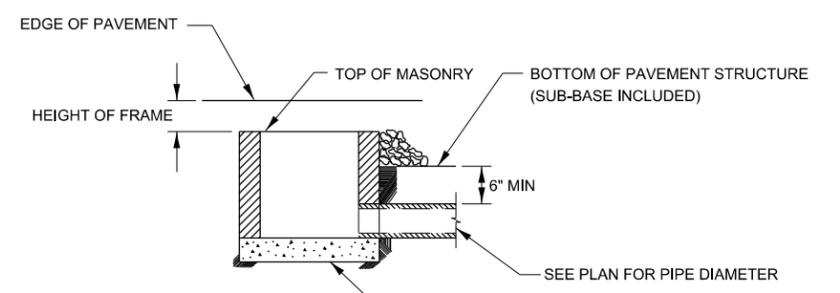
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

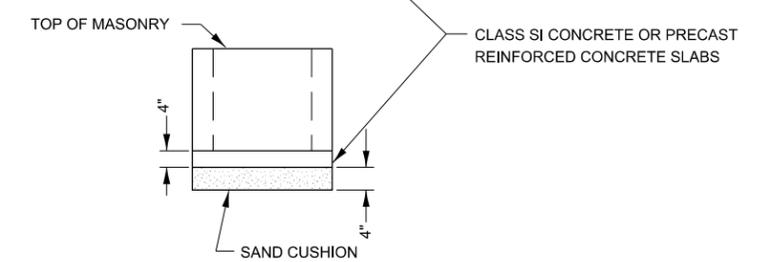
ALTERNATE MATERIALS FOR WALLS	
PRECAST REINFORCED CONCRETE RISERS	3"
CONCRETE MASONRY UNITS	5"
CAST-IN-PLACE CONCRETE	6"
BUILDING BRICK, GRADE SW, FROM CLAY OR SHALE	8"



PLAN



SEC. A-A



### INLET TYPE A (SPECIAL)

NOTE:

1. THE CONTRACT UNIT PRICE FOR INLETS TYPE A (SPECIAL) SHALL NOT INCLUDE THE FRAME AND LID OR GRATE.
2. FURNISHING AND INSTALLING SAND CUSHION IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TYPE A (SPECIAL) INLETS.
3. THE TYPE A (SPECIAL) INLET SHOULD NOT BE USED AS A RECEIVER OF STORM WATER FROM ANOTHER INLET.

(TO BE USED AT PAVED SECTION WITH CURB & GUTTER)  
NO SCALE

602-1

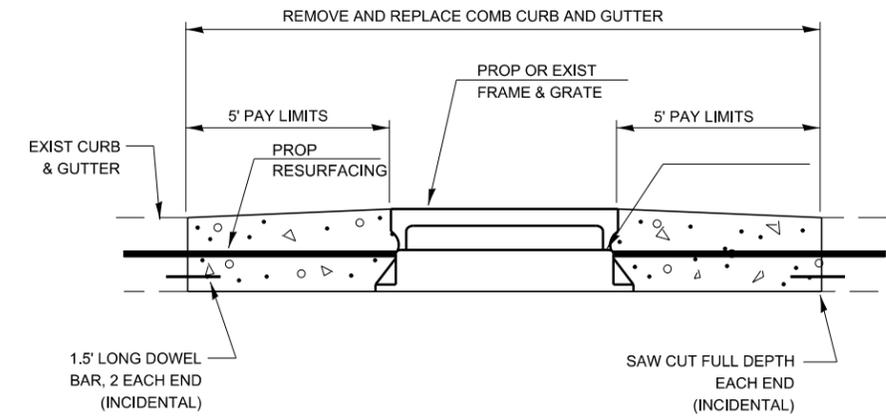
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**INLET ADJUST**

602-2

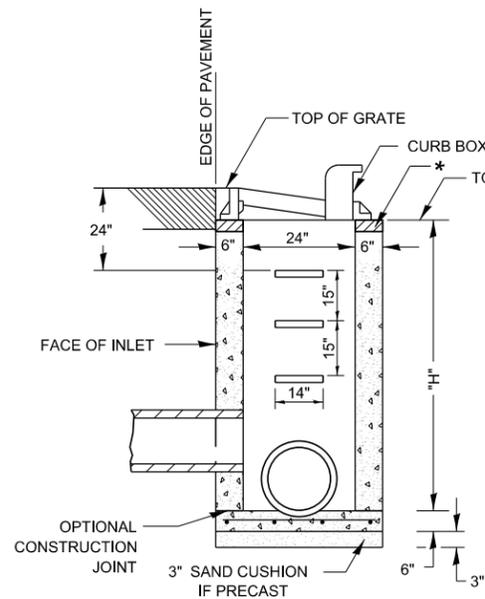
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

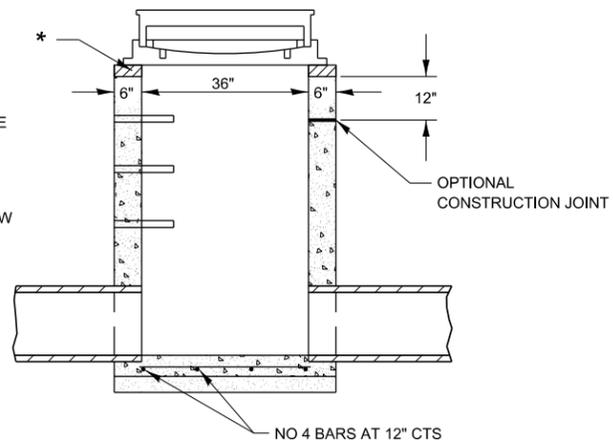
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

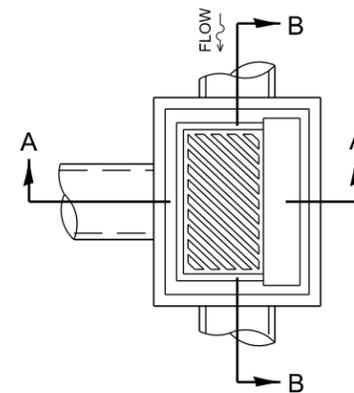


**SEC. A-A**

\* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.  
THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6" SHORT TO ALLOW FOR FIELD ADJUSTMENTS.



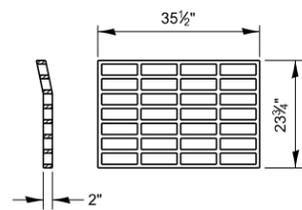
**SEC. B-B**



**NOTES**

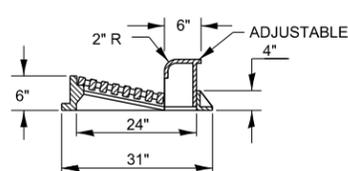
- SEE STANDARD 602701 FOR DETAILS OF STEPS. STEPS SHALL BE OMITTED WHEN "H" IS LESS THAN 5'
- EXCEPT AS NOTED HEREIN INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.
- THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.
- ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.
- WEIGHT OF CAST IRON FRAME & GRATE = ±530 LBS.

**DETAIL OF FRAME & GRATE**

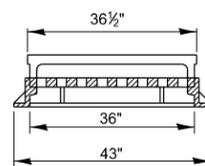


**PLAN OF GRATE \*\***

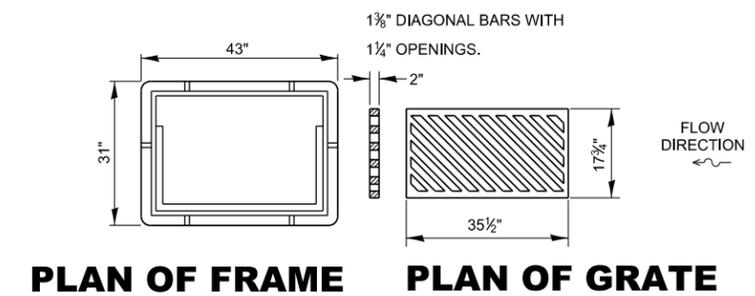
\*\* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.



**SECTION A-A**



**SECTION B-B**



**PLAN OF FRAME**

**PLAN OF GRATE**

**NOTES**

- CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THROUGH 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS.
- THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX. FURNISHING AND INSTALLING THE FRAME AND GRATE. THE CAST IRON STEPS, THE PRECAST FLOOR SLAB, SAND CUSHION AND REINFORCEMENT BARS.

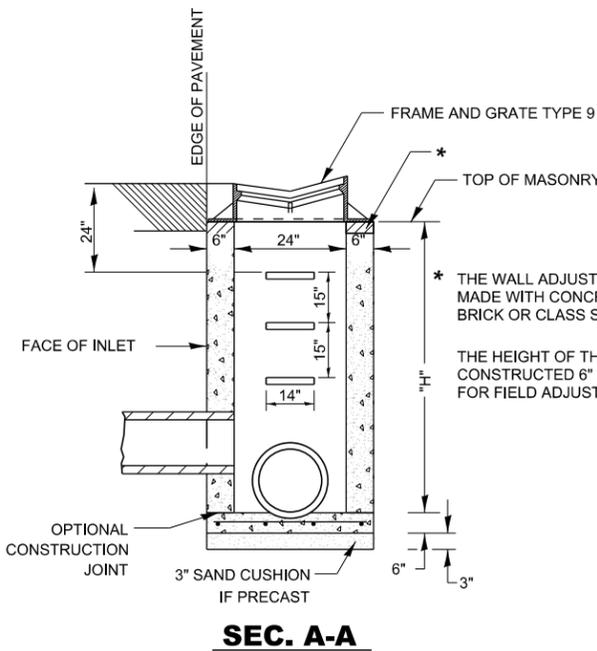
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	DRAWN -	REVISED -
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PLOT DATE = 10/3/23	DATE -	REVISED -

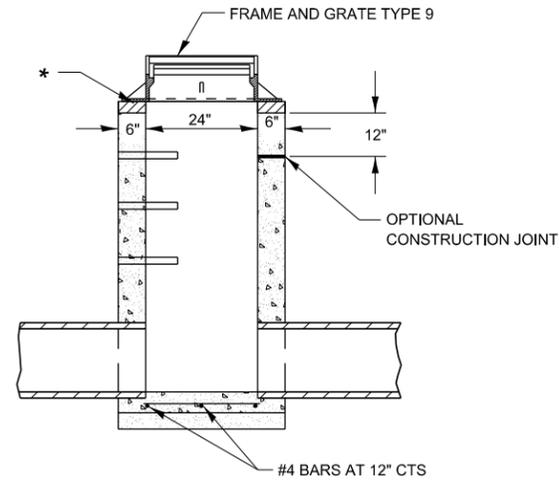
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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ILLINOIS FED. AID PROJECT				

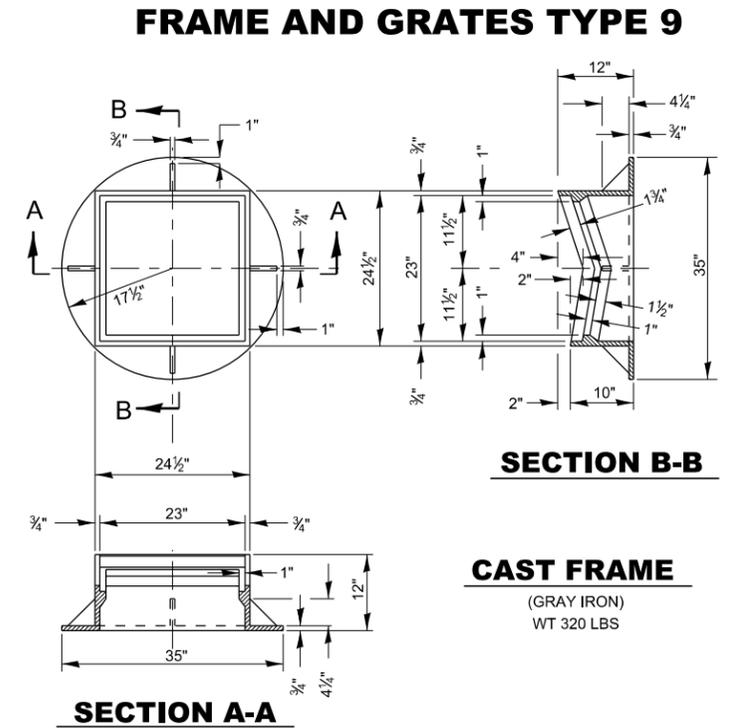


**SEC. A-A**



OPTIONAL CONSTRUCTION JOINT

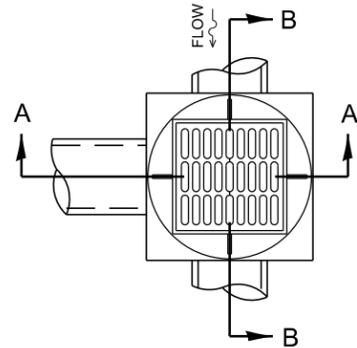
#4 BARS AT 12" CTS



**SECTION B-B**

**CAST FRAME**  
(GRAY IRON)  
WT 320 LBS

**SECTION A-A**



**NOTES**

SEE STANDARD 602701 FOR DETAILS OF STEPS.  
STEPS SHALL BE OMITTED WHEN "H" IS LESS THAN 5"

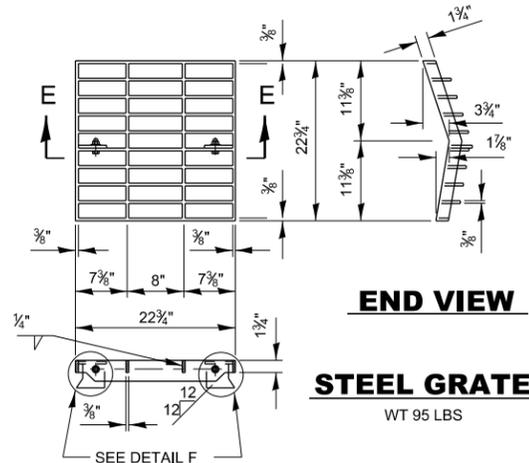
EXCEPT AS NOTED HEREIN INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

WEIGHT OF CAST IRON FRAME & GRATE = 440 LBS.

**DETAIL OF FRAME & GRATE**

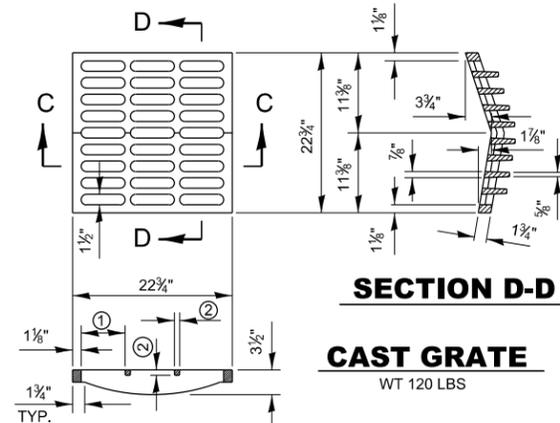


**END VIEW**

**STEEL GRATE**  
WT 95 LBS

**SECTION E-E**

FINISH  
STEEL GRATE SHALL BE GIVEN ONE SHOP COAT OF BLACK BITUMINOUS PAINT.



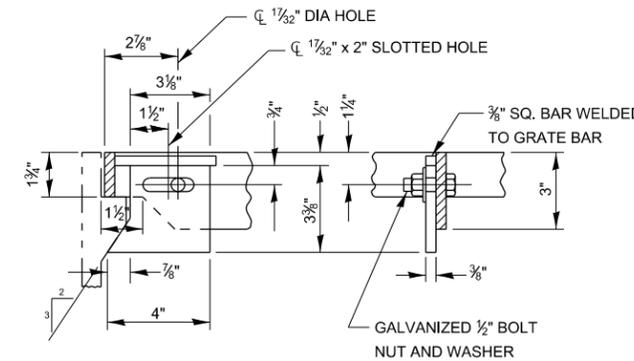
**SECTION D-D**

**CAST GRATE**  
WT 120 LBS

**SECTION C-C**

① = 6 1/4" MAX (TYP)

② = 3/4" MIN (TYP)



**LOCKING DEVICE DETAIL F**

**NOTES**

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THROUGH 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX. FURNISHING AND INSTALLING THE FRAME AND GRATE. THE CAST IRON STEPS, THE PRECAST FLOOR SLAB, SAND CUSHION AND REINFORCEMENT BARS.

**GENERAL NOTES**

THE MATERIAL FOR STEEL GRATE SHALL CONFORM TO ARTICLE 1006.04 OF THE STANDARD SPECIFICATIONS.

THE USE OF EITHER A CAST GRATE OR A STEEL GRATE WITH THE CAST FRAME SHALL BE THE OPTION OF THE CONTRACTOR.

THE CAST GRATE MAY BE MADE OF EITHER GRAY IRON OR DUCTILE IRON CONFORMING TO THE STANDARD SPECIFICATIONS. DUCTILE IRON CASTING SHALL BE GRADE 65-45-12.

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	DATE -	REVISED -

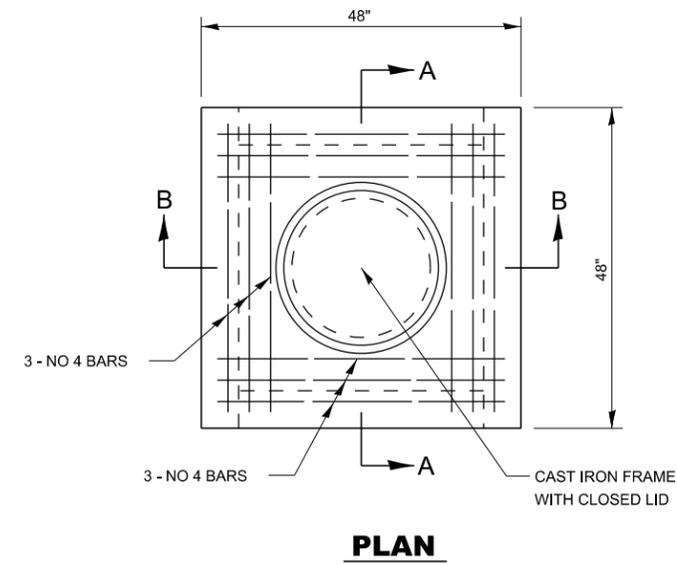
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INLET SPECIAL (TYPE A GUTTER)**

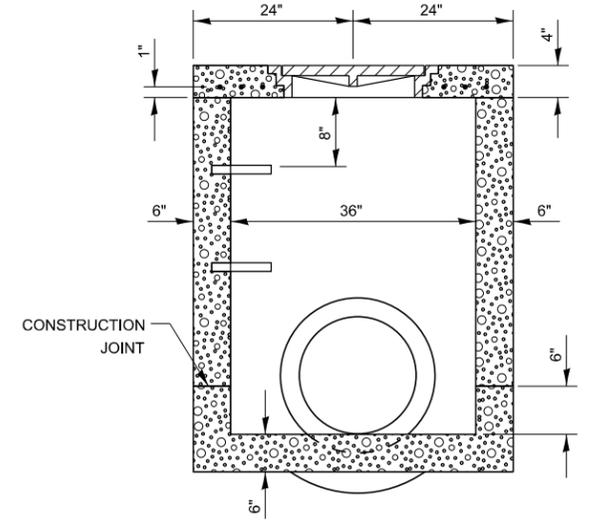
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

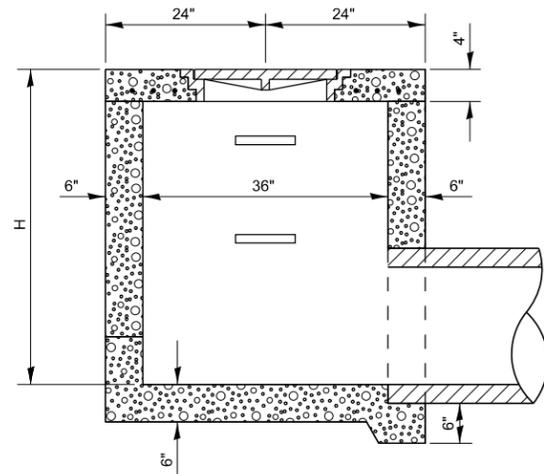
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**PLAN**

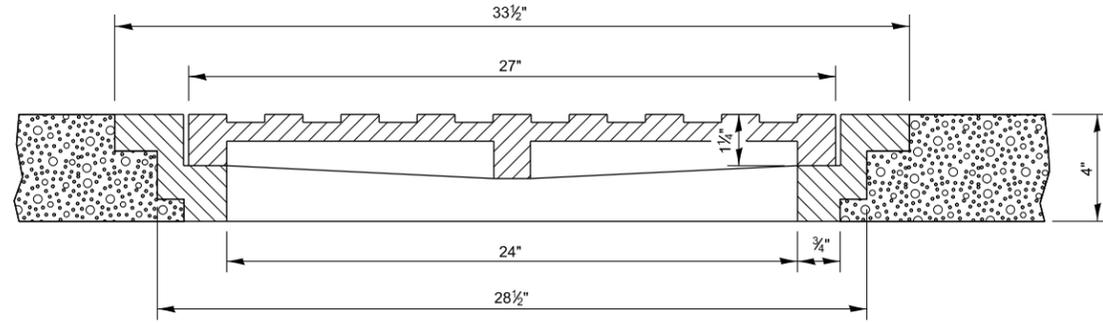


**SECTION A-A**



**SECTION B-B**

**NOTES:**



**SECTION THRU FRAME & LID**

WEIGHT OF FRAME & LID, 300 LBS

**MANHOLES, SPECIAL**

602-6

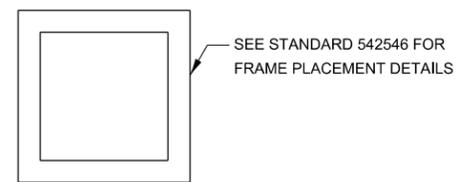
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

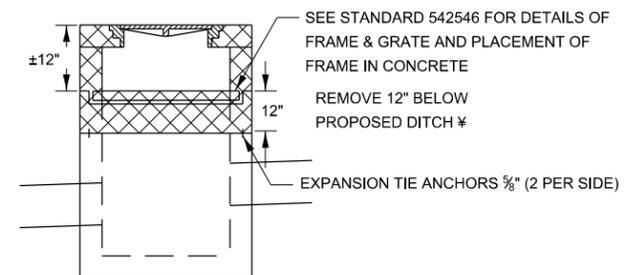
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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**PLAN VIEW**



**NOTES:**

THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS, STANDARD 542546 AND THIS DETAIL.

THE PROPOSED TOP SHALL BE CAST-IN-PLACE OR PRECAST.

THE CONCRETE SHALL BE REMOVED ACCORDING TO ARTICLE 501.05 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR INLETS TO BE RECONSTRUCTED WITH NEW STANDARD 542546 FRAME AND GRATE WHICH PRICE SHALL INCLUDE THE REMOVAL AND DISPOSAL OF THE EXISTING FRAME AND GRATE & CONCRETE, FURNISHING & INSTALLING EXPANSION TIE ANCHORS, CLASS SI CONCRETE, AND FURNISHING & INSTALLING FRAME & GRATE.

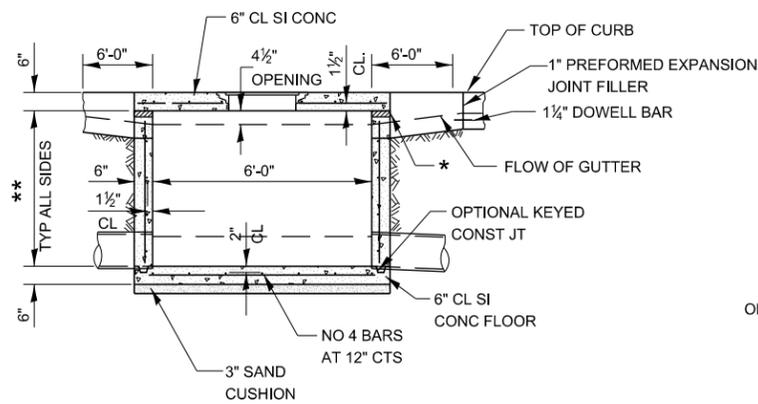
**FLUSH INLET BOX TO BE RECONSTRUCTED**

WITH NEW STANDARD 542546 FRAME AND GRATE

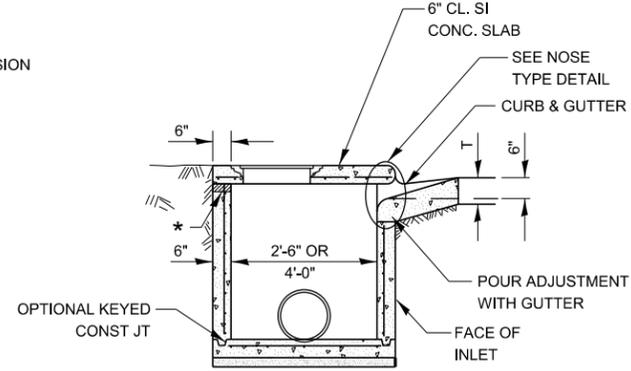
**DESIGNER NOTE:**  
 CHECK THE DIMENSIONS ON THIS DETAIL, CHANGE TO FIT YOUR CONDITIONS.

602-7

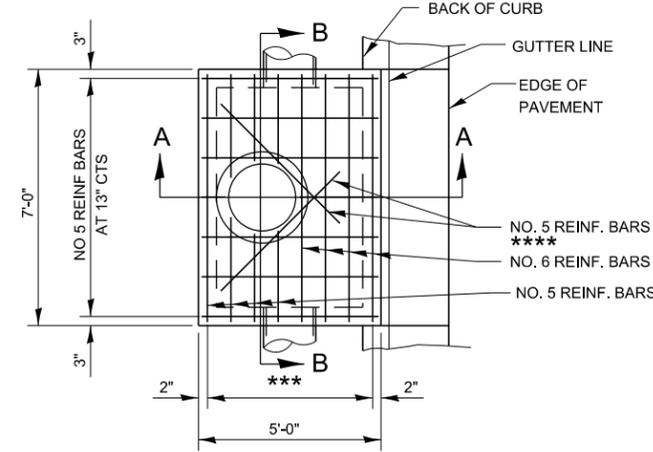
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	DATE -	REVISED -																			
											CONTRACT NO.		ILLINOIS FED. AID PROJECT								



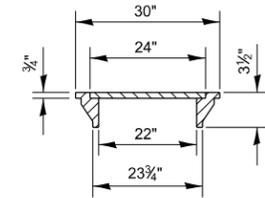
**SECTION B-B**



**SECTION A-A**



**TOP VIEW**



TOTAL WEIGHT 160 LBS

**LIGHT WEIGHT MANHOLE CASTING**

**INLET SPECIAL NO. 3, 4, 5, 6**

**NOTES:**

- SEE STANDARD 602701 FOR DETAILS OF STEPS.
- STEPS AT 12" TO 16" CENTERS.
- STEPS SHALL BE OMITTED WHEN DEPTH OF INLET IS LESS THAN 5"
- 1" PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET.
- CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT.
- THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.
- THE INLET SHALL BE CAST-IN-PLACE OR PRECAST.
- EXCEPT AS NOTED HEREIN INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS, CAST IRON STEPS (IF USED).
- THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.
- THE CURB AND GUTTER ADJACENT TO AND 6" ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.

TOP SLAB REINFORCEMENT TO BE EPOXY COATED BARS.

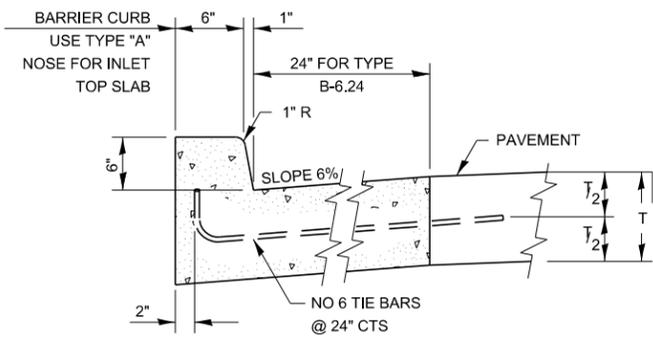
\* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICKS OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6" SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

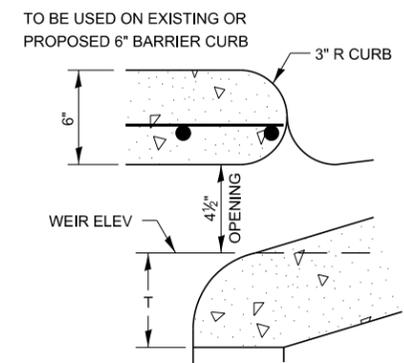
\*\* 4'-0" TO 8'-0" - NO 5 REINFORCEMENT BARS AT 12" CENTERS EW  
 8'-0" TO 13'-0" - NO 5 REINFORCEMENT BARS AT 10" CENTERS EW  
 13'-0" TO 15'-0" NO 5 REINFORCEMENT BARS AT 8" CENTERS EW

\*\*\* 7 SPAN AT 8" INLET SPECIAL 3 & 4  
 5 SPAN AT 7 1/2" INLET SPECIAL 5 & 6

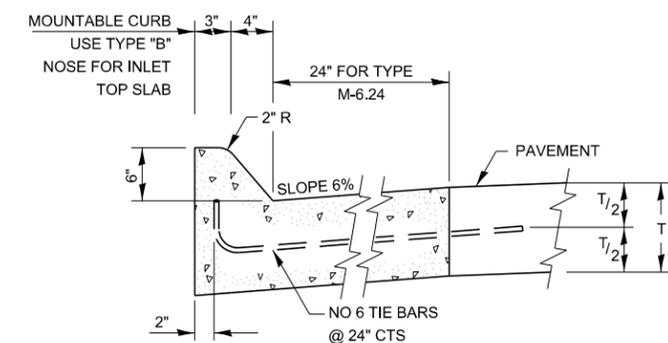
\*\*\*\* 2 REBARS FOR INLET SPECIAL 3 & 4  
 4 REBARS FOR INLET SPECIAL 5 & 6



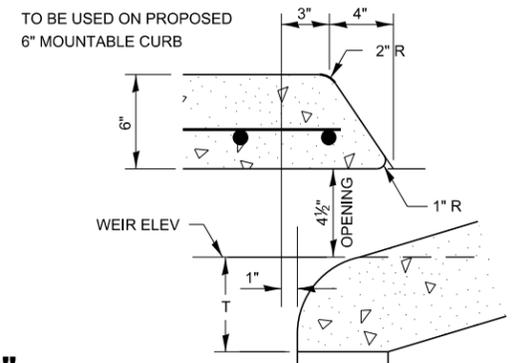
**TYPE "A"**



**NOSE TYPE FOR INLET TOP SLAB**



**TYPE "B"**

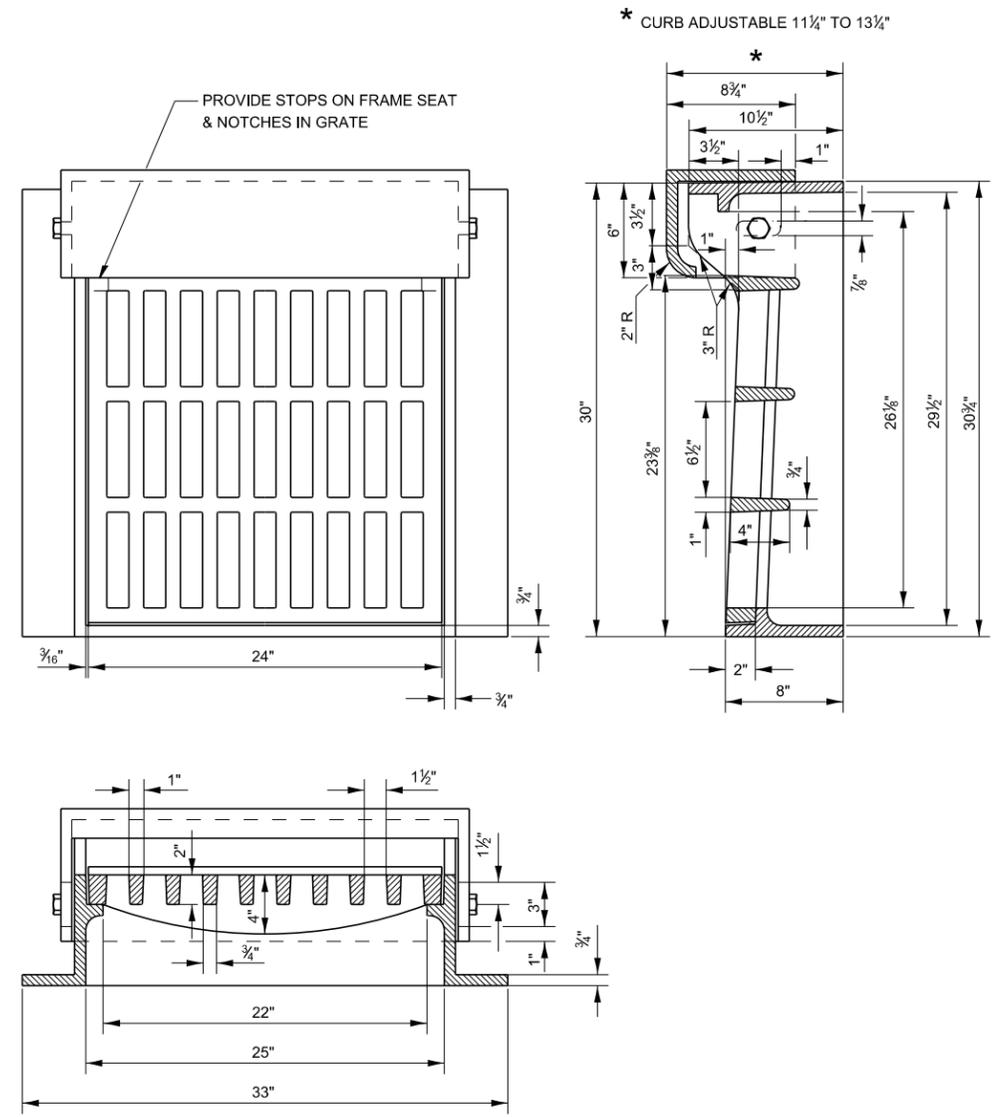


602-8

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USER NAME = anthony.grunstad	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INLET SPECIAL NO. 3, 4, 5, 6</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DRAWN -	REVISED -	REVISED -					CONTRACT NO.					
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604-1

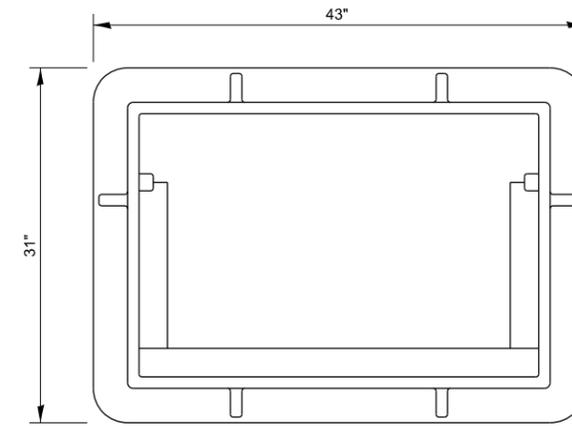
**FRAME AND GRATE SPECIAL**

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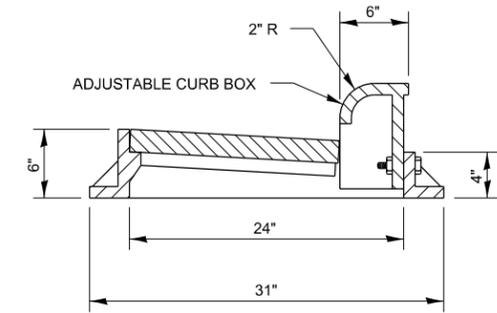
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 DEPARTMENT OF TRANSPORTATION**

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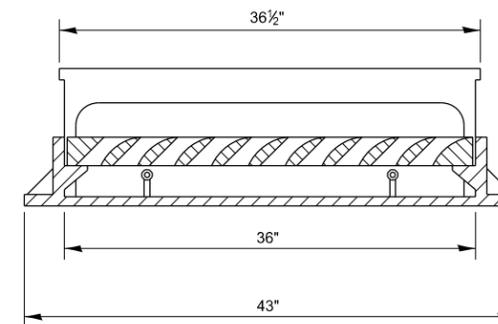
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



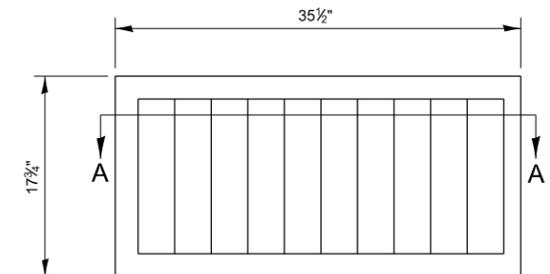
**PLAN OF FRAME**  
WITHOUT GRATE AND CURB BOX



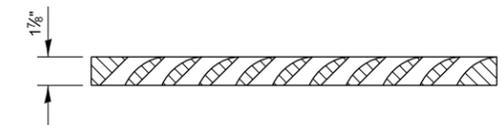
**TRANSVERSE SECTION**



**LONGITUDINAL SECTION**



**PLAN OF GRATE**



**SECTION A-A**

R 3067  
APPROXIMATE WEIGHT - 530 LBS

604-2

**FRAME AND GRATE FOR INLET SPECIAL**

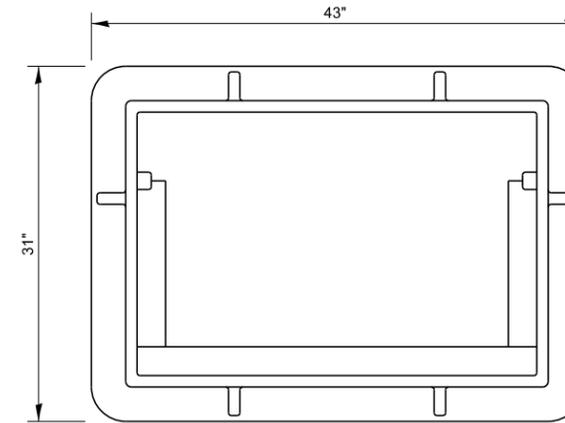
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

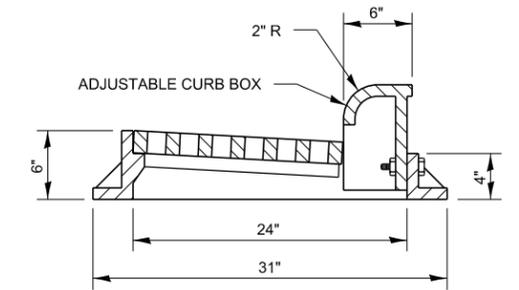
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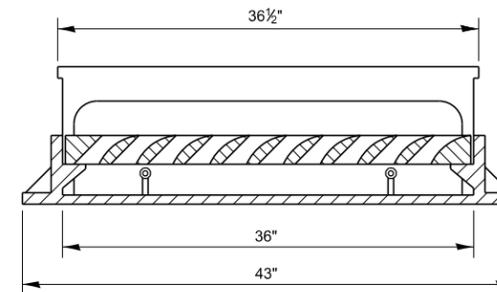


**PLAN OF FRAME**

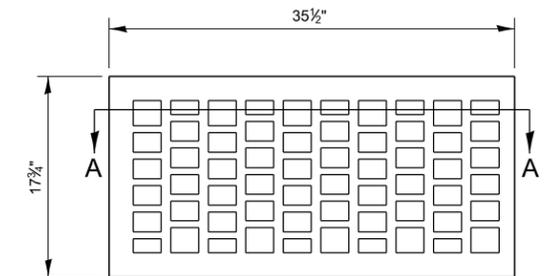
WITHOUT GRATE AND CURB BOX



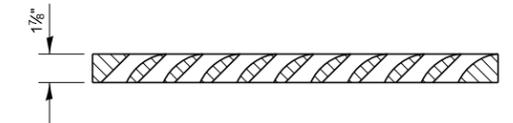
**TRANSVERSE SECTION**



**LONGITUDINAL SECTION**



**PLAN OF GRATE**



**SECTION A-A**

R 3067  
APPROXIMATE WEIGHT - 530 LBS

604-3

**FRAME AND GRATE FOR INLET SPECIAL**

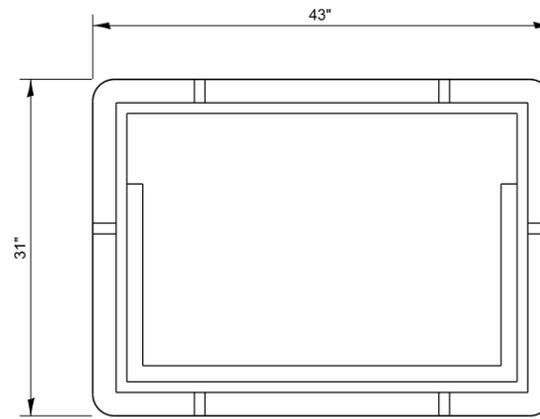
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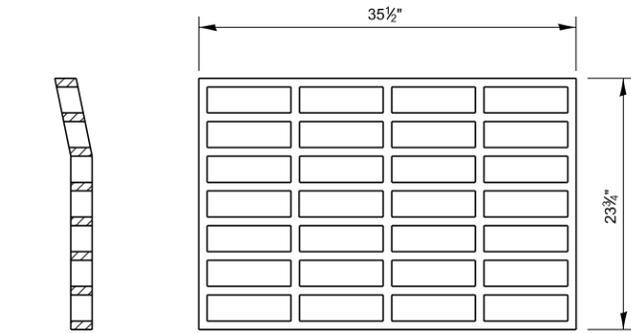
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DEPARTMENT OF TRANSPORTATION**

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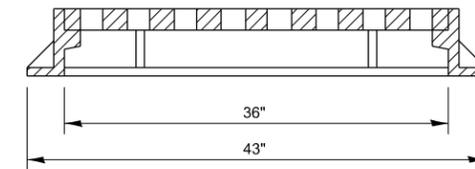
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**PLAN OF FRAME**



**PLAN OF GRATE**



**LONGITUDINAL SECTION**

\* THIS GRATE TO BE USED WIATHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.

APPROXIMATE WEIGHT OF CAST IRON FRAME & FRATE - 530 LBS

604-4

**FRAME AND GRATE FOR INLET SPECIAL**

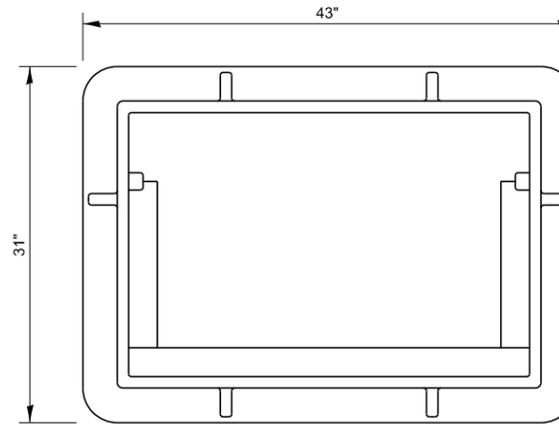
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

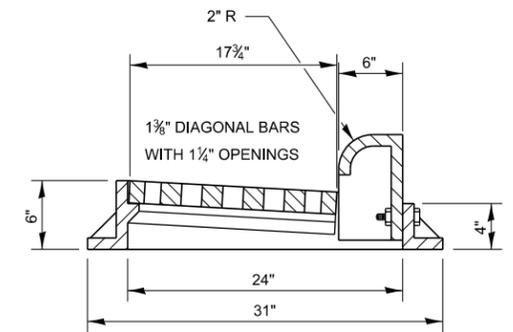
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

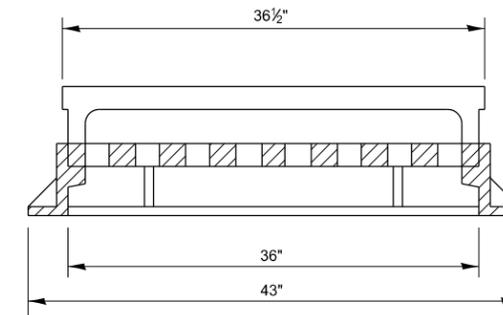


**PLAN OF FRAME**

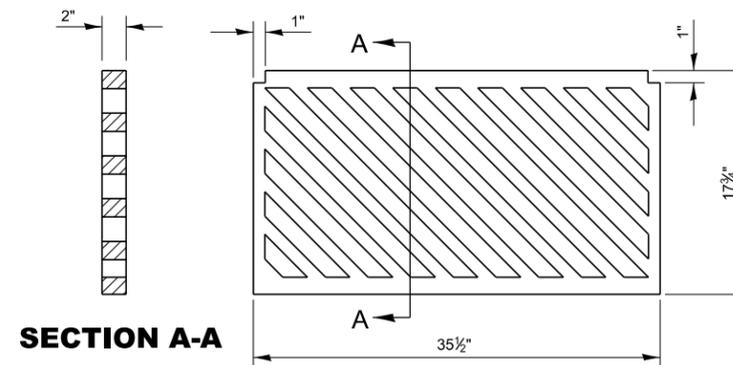
WITHOUT GRATE AND CURB BOX



**TRANSVERSE SECTION**



**LONGITUDINAL SECTION**



**SECTION A-A**

**PLAN OF GRATE**

**FRAME AND GRATE FOR INLET SPECIAL**

604-5

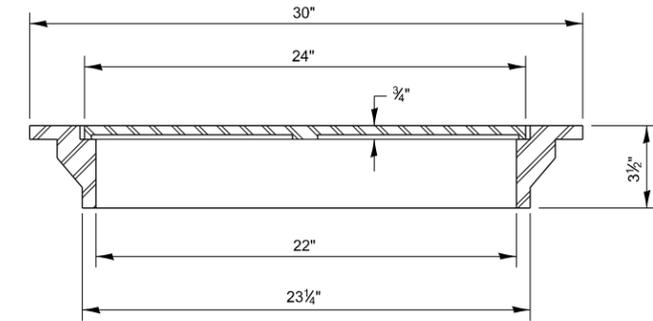
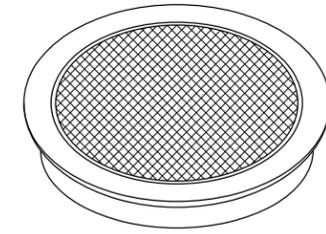
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**STATE OF ILLINOIS  
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SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



TOTAL WEIGHT: 160 LBS

**NOTE:**

THE CLOSED LID MAY BE MADE OF EITHER GRAY IRON OR DUCTILE IRON, CONFORMING TO THE STANDARD SPECIFICATIONS.

DUCTILE IRON CASTING SHALL BE GRADE 60-40-18 AND SHALL BE PROOF LOADED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS RR-F-621b, SECTION 3.8.

THE PROOF LOAD SHALL BE 25,000 LBS ON A 9" x 9" CAST BLOCK.

**SPECIAL FRAME CLOSED LID**

604-6

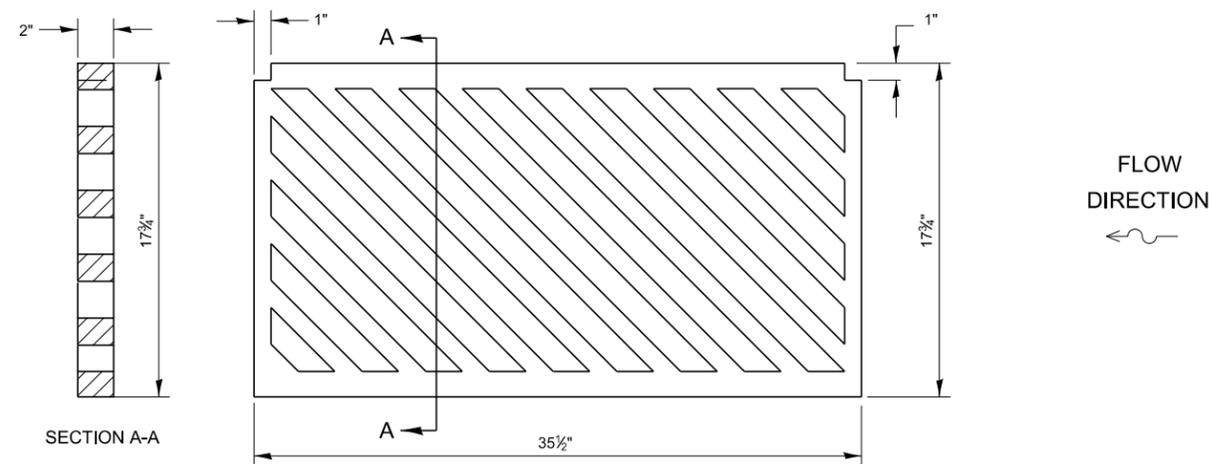
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**PLAN VIEW OF CAST IRON GRATE**  
 1 3/8" DIAGONAL BARS WITH 1 1/4" OPENINGS

**NOTES**

- THE CONTRACTOR SHALL FIELD CHECK THE SIZE OF THE EXISTING GRATE BEFORE ORDERING THE NEW GRATE TO INSURE THE CORRECT SIZE.
- THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR GRATE SPECIAL.
- THE EXISTING GRATES ARE TO BE SALVAGED AND TO BECOME THE PROPERTY OF THE

**GRATE SPECIAL 604-7**

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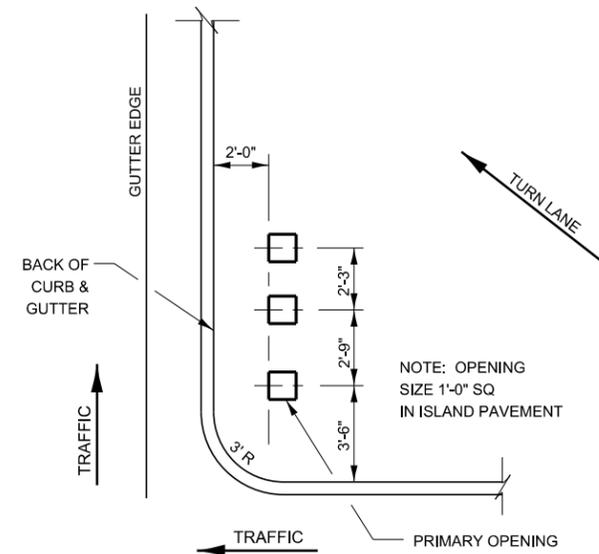
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### ISLAND SIGN POST SPACING DETAIL

NOTE: THE ENGINEER SHALL DETERMINE THE NUMBER OF OPENINGS REQUIRED.

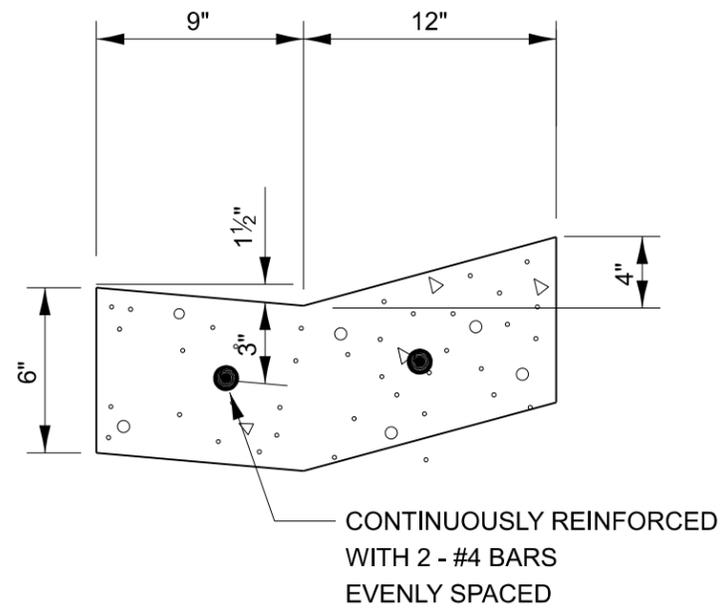
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DEPARTMENT OF TRANSPORTATION**

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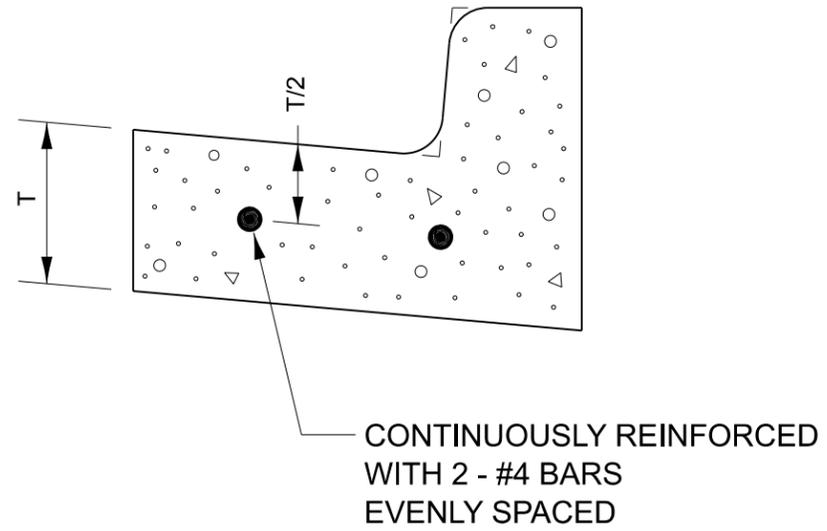


**REINFORCEMENT DETAIL**  
**FOR**  
**TYPE V GUTTER**

606-3

DESIGNER NOTE:  
TO BE USED WHEN CURB AND GUTTER  
CANNOT BE TIED TO THE EXISTING  
PAVEMENT - HMA PAVEMENTS OR  
PCC IN POOR CONDITION



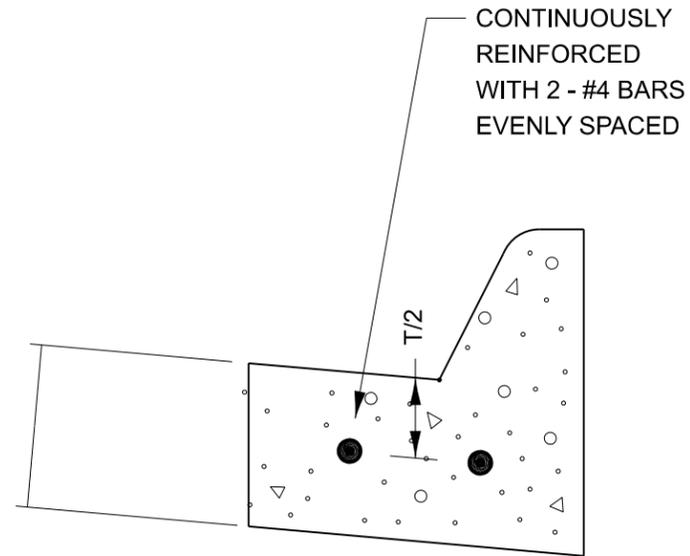


**REINFORCEMENT DETAIL**  
**FOR**  
**COMBINATION CONCRETE**  
**CURB AND GUTTER**  
**TYPE B-6.18**

606-5

DESIGNER NOTE:

TO BE USED WHEN CURB AND GUTTER  
CANNOT BE TIED TO THE EXISTING  
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PCC IN POOR CONDITION

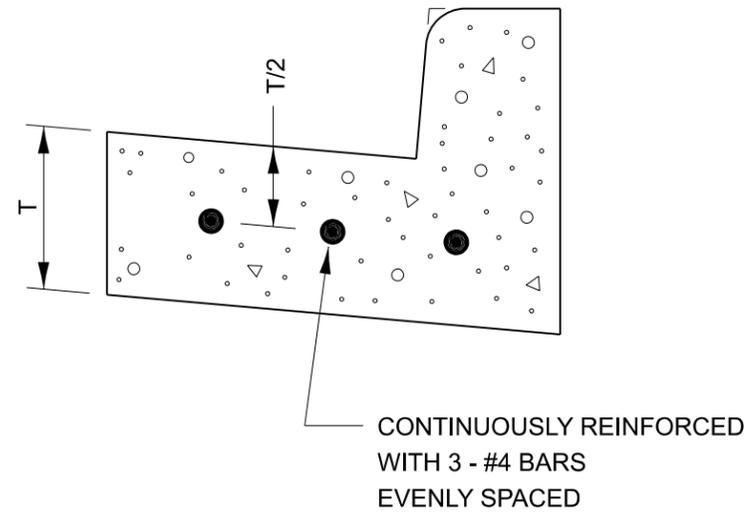


**COMBINATION CONCRETE**  
**CURB AND GUTTER**  
**TYPE M-4.06**

606-6

DESIGNER NOTE:

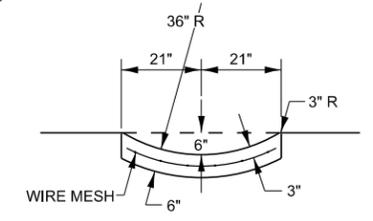
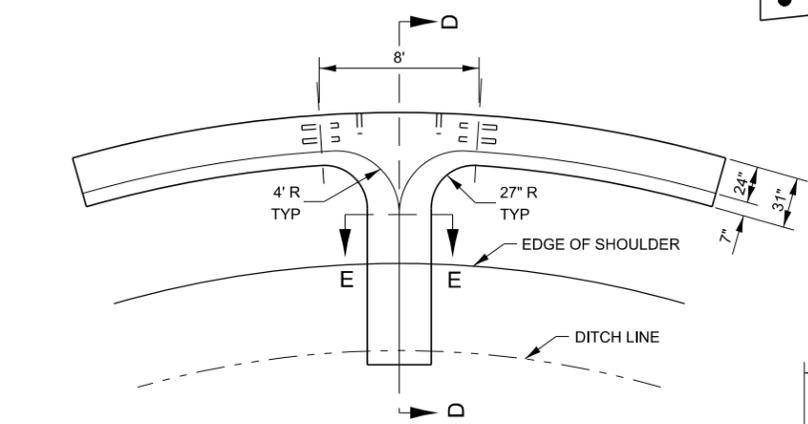
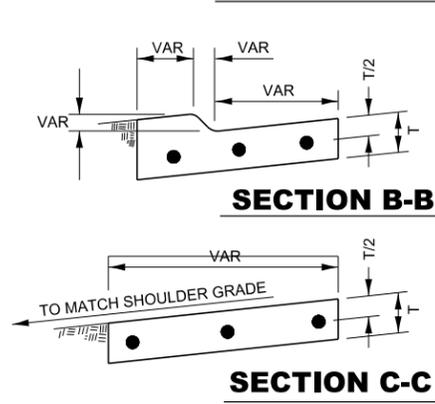
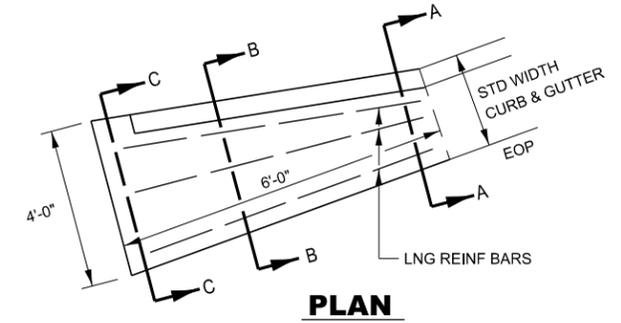
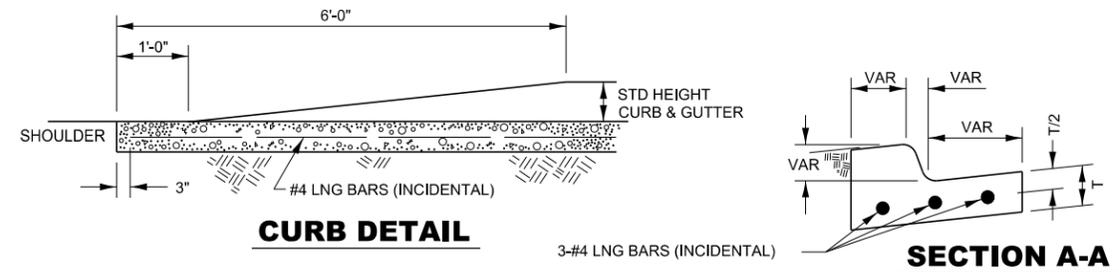
TO BE USED WHEN CURB AND GUTTER  
CANNOT BE TIED TO THE EXISTING  
PAVEMENT - HMA PAVEMENTS OR  
PCC IN POOR CONDITION



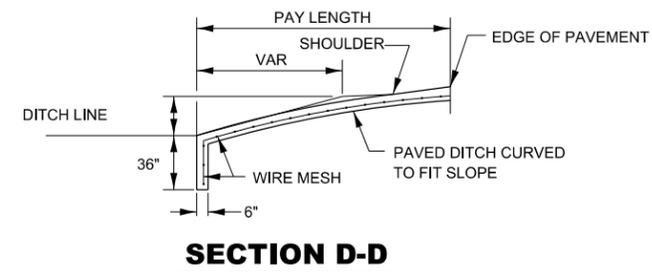
**REINFORCEMENT DETAIL**  
**FOR**  
**COMBINATION CONCRETE**  
**CURB AND GUTTER**  
**TYPE B-6.24**

606-7

DESIGNER NOTE:  
TO BE USED WHEN CURB AND GUTTER  
CANNOT BE TIED TO THE EXISTING  
PAVEMENT - HMA PAVEMENTS OR  
PCC IN POOR CONDITION



QUANTITY OF CONCRETE  
 SECTION A-A = 0.07 CU YD/FT  
 8' SECTION OF CURB & GUTTER UP TO  
 SECTION A-A = 0.75 CU YD



NOTE:  
 CLASS SI CONCRETE SHALL BE USED THROUGHOUT.  
 CURB AND GUTTER OUTLET SHALL BE TIED TO  
 PAVEMENT SLAB WITH 2 TIE BARS, 30" LONG -  
 30" CENTERS. OUTLET SHALL BE TIED TO CURB AND  
 GUTTER AT CONTRACTION JOINTS AS SHOWN. GUTTER  
 OUTLET AND PAVED DITCH SHALL BE REINFORCED WITH  
 WIRE MESH HAVING A WEIGHT OF AT LEAST 58 LBS/SQ FT  
 COST TO BE INCLUDED IN THE UNIT PRICE PER CU YD  
 FOR CLASS SI CONCRETE (OUTLET).

**CURB & GUTTER OUTLET, SPECIAL 606-8**

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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										CONTRACT NO.	
										ILLINOIS FED. AID PROJECT	

CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, STANDARD 606001 AND THIS DRAWING.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. A HOLE 1½" IN DIA AND 9" DEEP SHALL BE DRILLED IN THE EXISTING CONCRETE CURB AS SHOWN. A 1¼" x 18" SMOOTH DOWEL BAR SHALL BE GROUTED IN THE HOLE LONGITUDINALLY.

JOINTS OF A TYPE SIMILAR TO THAT IN THE UNDERLYING PAVEMENT (EXPANSION OR CONTRACTION) SHALL BE INSTALLED IN THE CONCRETE CURB IN ALIGNMENT WITH THE JOINTS IN THE PAVEMENT.

INLETS ARE NOT TO BE INCLUDED IN THE MEASUREMENT FOR CURB AND GUTTER REPLACEMENT.

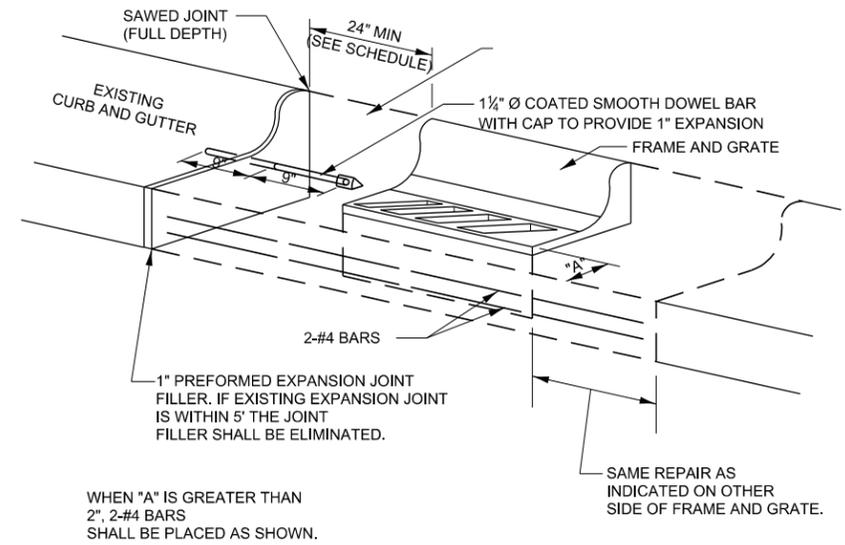
THE PROPOSED CONFIGURATION OF THE CURB AND GUTTER SHALL MATCH THAT REMOVED.

THE CONCRETE REQUIRED BETWEEN THE EDGE OF PAVEMENT AND FRAME AND GRATE SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CURB AND GUTTER.

THE LOCATION OF THE DOWEL BAR SHALL BE DETERMINED BY THE ENGINEER.

THE COST OF ALL MATERIALS AND LABOR REQUIRED TO INSTALL THE JOINTS AND BARS IN THE CURBS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR COMBINATION CURB AND GUTTER.

ALL EXISTING TIE BARS IN EDGE OF PAVEMENT SLAB THRU REPLACEMENT AREA SHALL BE CUT OFF.



WHEN "A" IS GREATER THAN 2", 2-#4 BARS SHALL BE PLACED AS SHOWN.

SAME REPAIR AS INDICATED ON OTHER SIDE OF FRAME AND GRATE.

### DETAILS FOR CURB & GUTTER REPLACEMENT AT INLET

606-9

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, STANDARD 606001 AND THIS DRAWING.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. A HOLE 1½" IN DIA. AND 9" DEEP SHALL BE DRILLED IN THE EXISTING CONCRETE CURB AS SHOWN. A 1¼"x18" SMOOTH DOWEL BAR SHALL BE GROUTED IN THE HOLE LONGITUDINALLY.

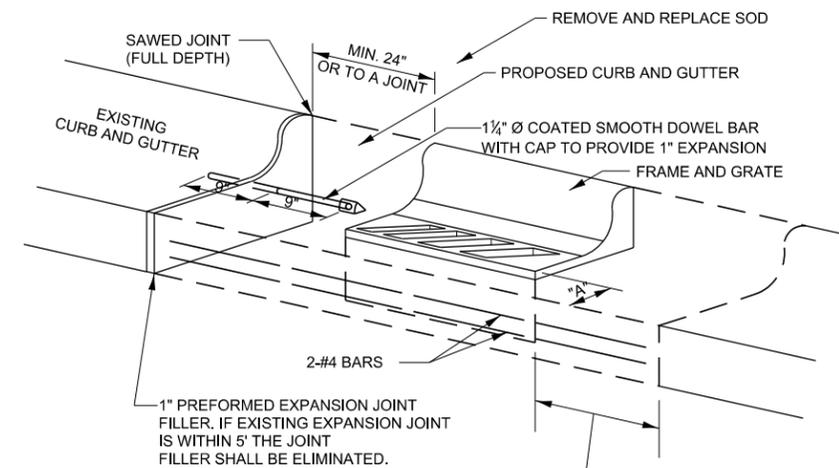
JOINTS OF A TYPE SIMILAR TO THAT IN THE UNDERLYING PAVEMENT (EXPANSION OR CONTRACTION) SHALL BE INSTALLED IN THE CONCRETE CURB IN ALIGNMENT WITH THE JOINTS IN THE PAVEMENT.

THE PROPOSED CONFIGURATION OF THE CURB AND GUTTER SHALL MATCH THE REMOVED.

THE LOCATION OF THE DOWEL BAR SHALL BE DETERMINED BY THE ENGINEER.

ALL EXISTING TIE BARS IN EDGE OF PAVEMENT SLAB THRU REPLACEMENT AREA SHALL BE CUT OFF.

THE WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS AND INCLUDES THE REMOVAL AND REPLACEMENT OF SOD, CONCRETE PAVEMENT AND/OR CURB AND GUTTER ADJACENT TO CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED AND SHALL BE INCLUDED IN THE PAY ITEM OF CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED AS SPECIFIED.



WHEN "A" IS GREATER THAN 2", 2-#4 BARS SHALL BE PLACED AS SHOWN.

## DETAILS FOR CURB & GUTTER REPLACEMENT CATCH BASIN OR INLETS TO BE ADJUSTED OR RECONSTRUCTED

606-10

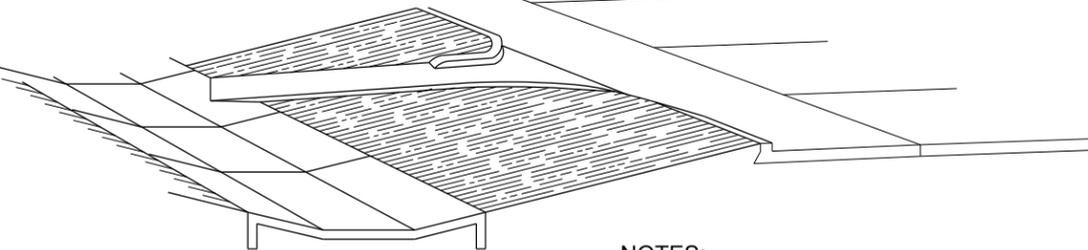
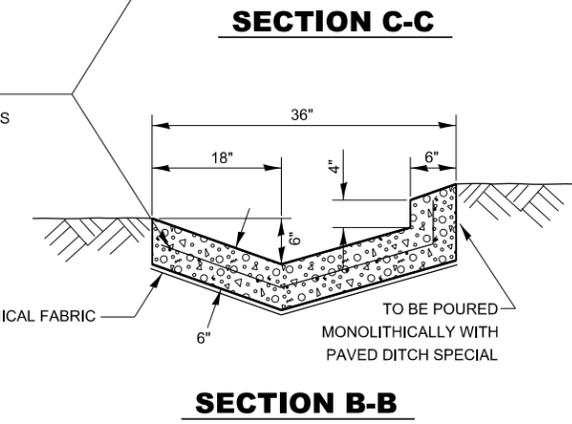
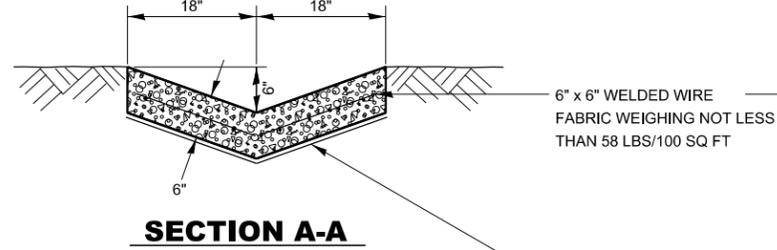
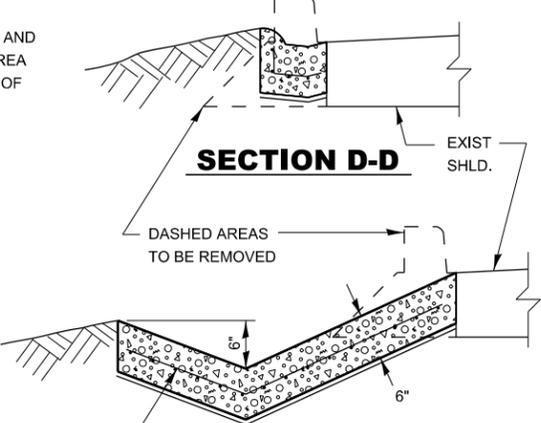
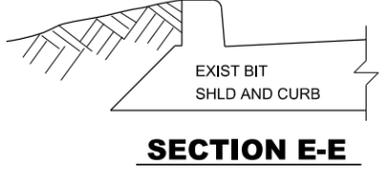
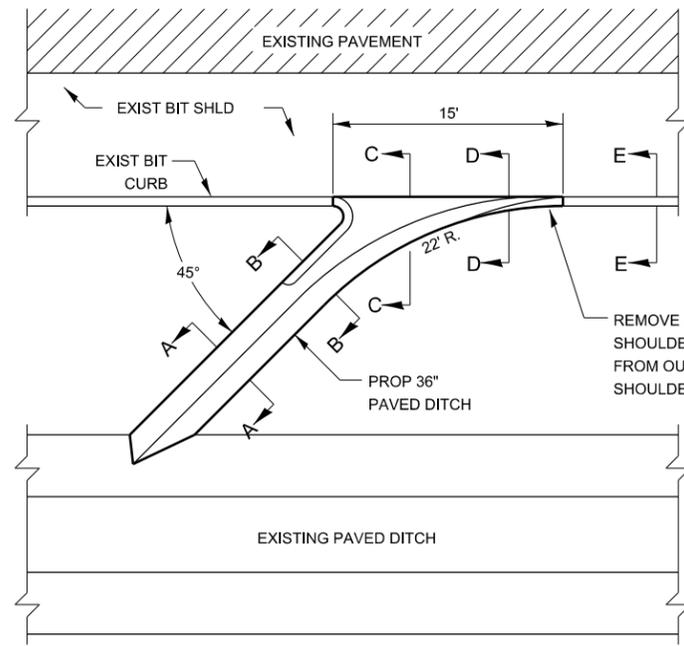
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NOTES:

**PAVED DITCH, SPECIAL**

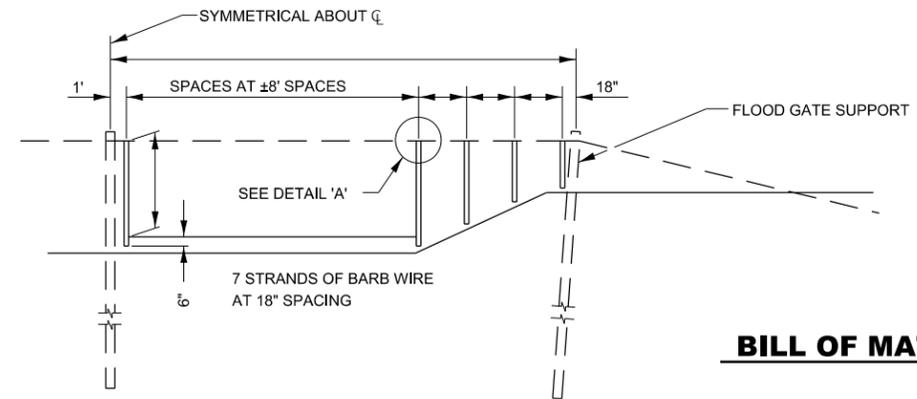
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DEPARTMENT OF TRANSPORTATION

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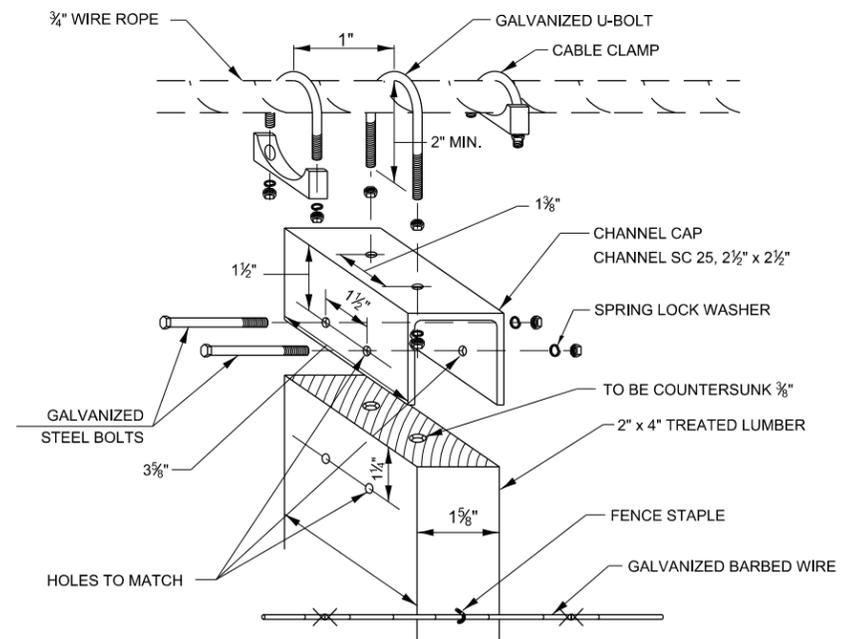
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**BILL OF MATERIALS**

QUANTITY	UNIT	ITEM
	FT	2"x4" TREATED LUMBER
	FT	GALVANIZED BARBED WIRE
	FT	SPECIAL STEEL CHANNEL SC 25, 2½"x2½"
EACH		¾"x3" GALVANIZED STEEL BOLTS AND WASHERS
EACH		¾"x2" GALVANIZED STEEL U-BOLTS
EACH		GALVANIZED CABLE CLAMPS
LBS		GALVANIZED FENCE STAPLES

**NOTE:**  
THE ITEMS LISTED IN THE BILL OF MATERIALS  
SHALL BE THE COST OF THE FLOOD GATE COMPLETE.



**DETAIL 'A'**

EXPLODED VIEW OF FLOOD GATE TO CABLE

**DETAIL OF FLOOD GATE**

607-1

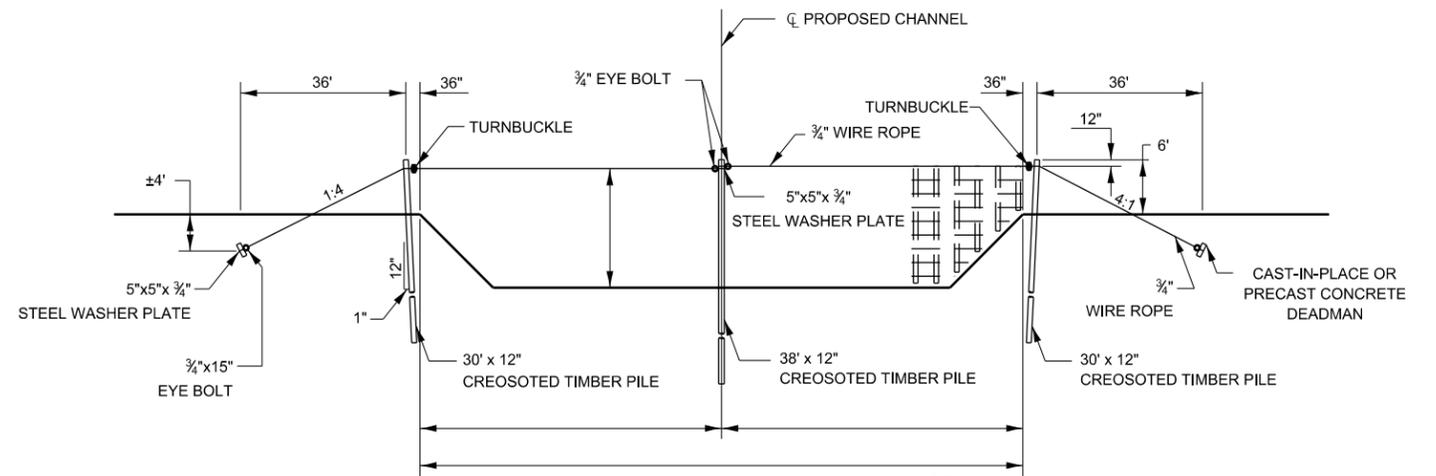
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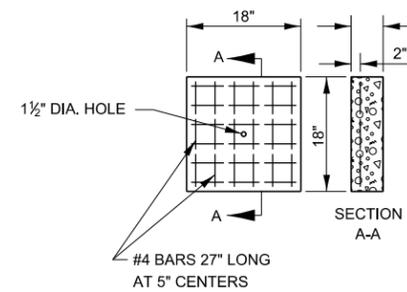
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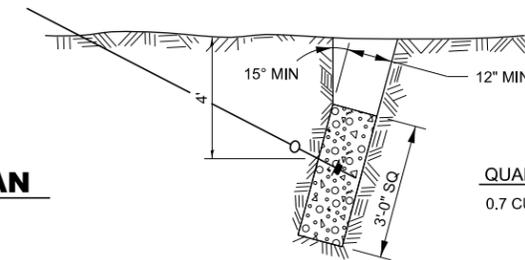


**NOTE:**  
THE ITEMS LISTED IN THE BILL OF MATERIALS SHALL BE INCIDENTAL TO THE COST OF THE FLOOD GATE SUPPORT COMPLETE.



**DETAIL OF PRECAST CONCRETE DEADMAN**

**QUANTITIES FOR 2 DEADMEN**  
0.3 CU YD CLASS SI CONCRETE  
36 LBS REINFORCEMENT BARS



**QUANTITIES FOR 2 DEADMEN**  
0.7 CU YD CLASS SI CONCRETE

**DETAIL OF CAST-IN-PLACE CONCRETE DEADMAN**

**NOTE:**  
PRECAST CONCRETE DEADMEN AND CAST-IN-PLACE CONCRETE DEADMEN SHALL BE CONSTRUCTED OF CLASS SI CONCRETE

**BILL OF MATERIALS**

QUANTITY	UNIT	ITEM
240	FT	3/4" DIA. GALVANIZED WIRE ROPE
4	EACH	3/4" DIA. x 15" GALVANIZED EYE BOLTS WITH NUTS AND WASHERS
2	EACH	3/4" DIA. GALVANIZED TURNBUCKLES
20	EACH	3/4" DIA. GALVANIZED CABLE CLAMPS
4	EACH	5" x 5" x 3/4" STEEL WASHER PLATES
2	EACH	PRECAST CONCRETE DEADMAN OR CAST-IN-PLACE CONCRETE DEADMAN
98	FT	12" CREOSOTED TIMBER PILE (INCLUDES FURNISHING AND DRIVING TIMBER PILES)

**DETAIL OF FLOOD GATE SUPPORT**

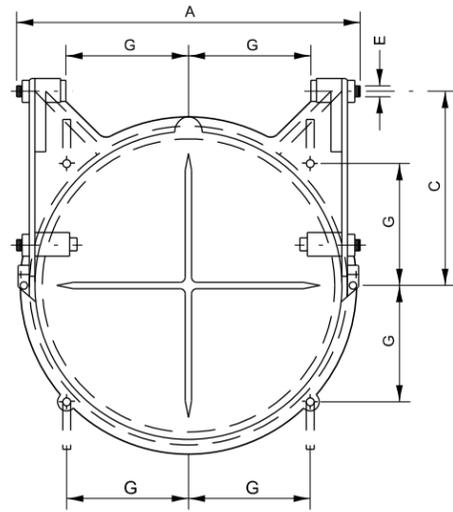
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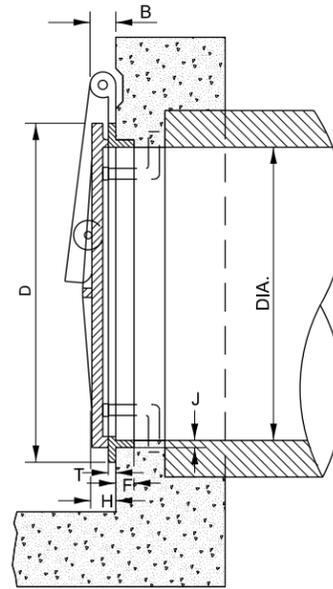
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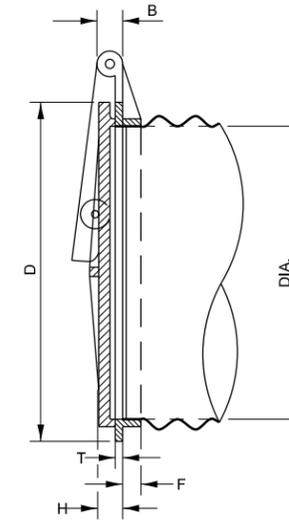
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						ILLINOIS		FED. AID PROJECT		



**FRONT ELEVATION**



**SECTION**



SECTION SHOWING METHOD OF APPLICATION  
TO CORRUGATED METAL PIPE

**TABLE OF DIMENSIONS**

DIAM	A	B	C	D	E	F	G	H	J	T
8"	10 3/4"	1 3/8"	5 1/16"	10"	1/2"	1 1/8"	3 9/16"	1 1/4"	3/8"	3/8"
10"	12 3/4"	1 3/8"	7 1/8"	12 1/4"	1/2"	1 1/8"	4 3/8"	1 1/2"	1/2"	7/16"
12"	14 3/4"	1 3/8"	8 1/2"	14 1/2"	1/2"	1 1/8"	5 1/8"	1 1/2"	1/2"	1/2"
14"	17 1/4"	1 3/8"	9 7/8"	16 3/4"	1/2"	1 1/4"	5 15/16"	1 1/2"	1/2"	9/16"
15"	17 3/4"	1 3/8"	10 5/8"	17 3/4"	1/2"	1 1/4"	6 1/4"	1 1/2"	1/2"	9/16"
16"	19 1/4"	1 3/8"	11 1/4"	18 3/4"	1/2"	1 1/4"	6 5/8"	1 1/2"	1/2"	9/16"
18"	22 1/4"	2"	12 3/8"	21"	3/4"	1 9/16"	7 7/16"	1 3/4"	9/16"	9/16"
20"	24 3/4"	2"	14 1/8"	23 3/4"	3/4"	1 3/8"	8 1/4"	1 3/4"	5/8"	5/8"
21"	25 1/4"	2"	14 7/8"	24 1/4"	3/4"	1 3/8"	8 9/16"	1 3/4"	5/8"	5/8"
24"	28 1/4"	2"	17"	27 1/2"	3/4"	1 1/2"	9 3/4"	1 3/4"	5/8"	5/8"
30"	35 1/4"	2 1/2"	20 1/2"	34"	1"	1 9/16"	12"	2"	1 1/16"	5/8"
36"	41 1/2"	2 1/2"	25"	40 7/8"	1"	2 1/16"	14 7/16"	2 1/4"	1 1/8"	1 1/16"
42"	47 1/2"	2 1/2"	29 3/4"	47"	1"	2 5/16"	16 5/8"	2 1/4"	1 1/8"	3/4"
48"	53 1/2"	2 1/2"	34"	54"	1"	2 3/4"	19 1/16"	2 1/4"	1 3/8"	3/4"
54"	60 3/4"	2 1/2"	38"	62 1/4"	1 1/4"	2 3/4"	22"	3"	1 1/2"	7/8"
60"	67"	2 1/2"	42"	68 1/2"	1 1/4"	2 3/4"	24 1/4"	3"	1 1/2"	15/16"
66"	73 3/8"	2 1/2"	47"	75"	1 1/4"	2 7/8"	26 1/2"	3"	1 1/2"	1"
72"	79"	2 1/2"	51"	82"	1 1/4"	3"	29"	3"	1 1/2"	1"
78"	86"	2 1/2"	55 1/4"	88 3/4"	1 1/4"	3 1/2"	31 3/8"	3"	1 5/8"	1 1/8"
84"	92 1/2"	3 1/2"	59 1/2"	95 1/2"	1 1/2"	3 1/2"	33 3/4"	3"	1 3/4"	1 1/4"

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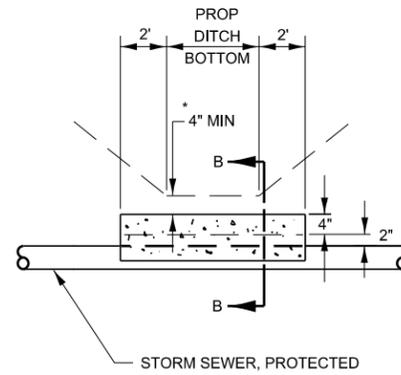
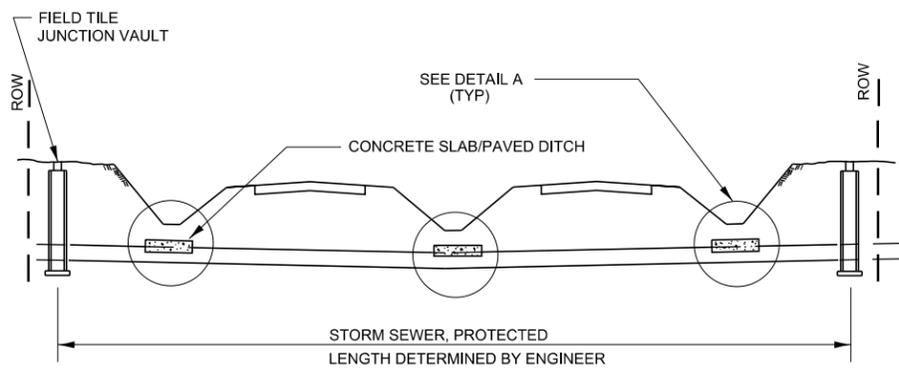
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**AUTOMATIC FLAP GATES**

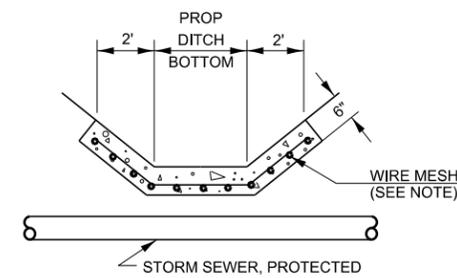
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

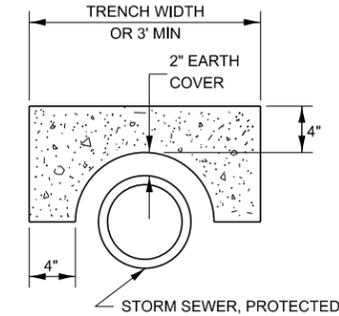


**DETAIL A**  
NO SCALE

- IF A 4" COVER CAN NOT BE PROVIDED A PAVED DITCH SHALL BE CONSTRUCTED AS SHOWN IN DETAIL C.
- NOTES**
1. WIDTH OF CONCRETE SLAB SHALL BE THE SAME AS THE TRENCH WIDTH IN ACCORDANCE WITH SECTION 550 OF THE STD. SPECIFICATIONS, OR 3' MIN.
  2. CONCRETE FOR SLAB, HEADWALL AND PAVED DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "MISCELLANEOUS CONCRETE."
  3. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT



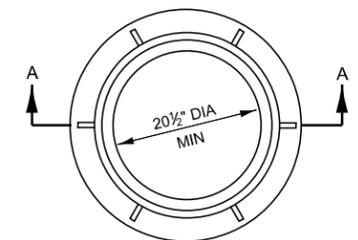
**DETAIL C**  
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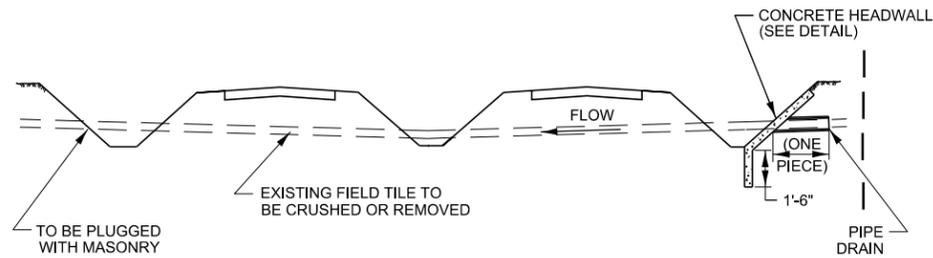
ALTERNATE MATERIALS FOR WALLS	T
PRECAST REINFORCED CONCRETE RISERS	4"
CONCRETE MASONRY UNIT	5"
MONOLITHIC CONCRETE	6"

**NOTES**

1. THE CONTRACT UNIT PRICE FOR FIELD TILE JUNCTION VAULT SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE FRAME AND GRATE OR PRECAST CONCRETE LID AND WHEN REQUIRED, THE SAND CUSHION.
2. ALL FIELD TILE JUNCTION VAULTS SHALL BE 2'-0" IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.

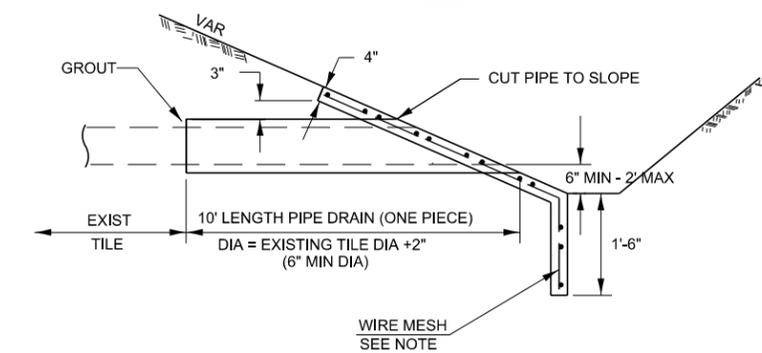
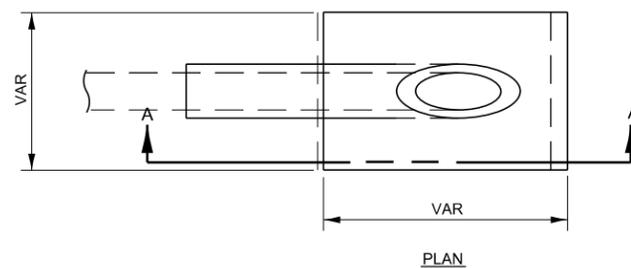


**FIELD TILE REPLACEMENT**



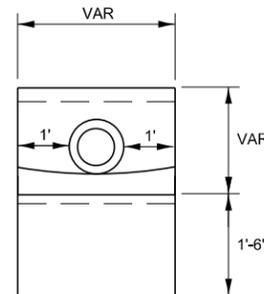
**NOTES**

1. ANY STORM SEWER SPECIAL OR BACKSLOPE DRAIN OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT

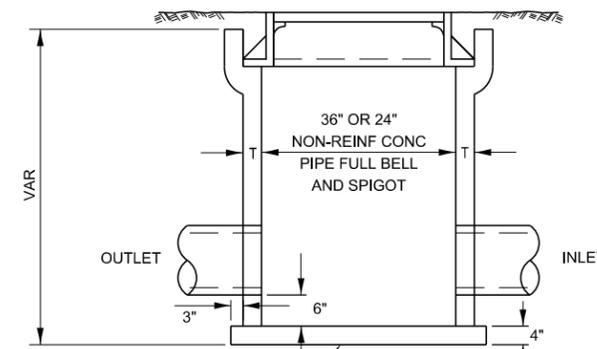


**SECTION A-A**

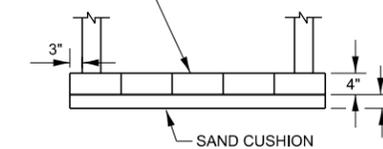
**CLASS SI CONCRETE HEADWALLS**



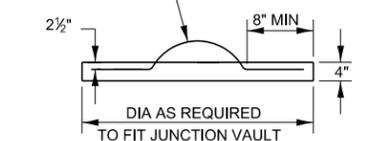
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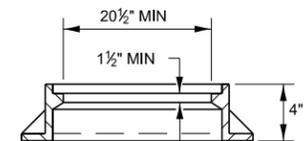
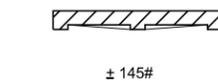
CLASS SI CONCRETE OR PRECAST REINFORCED CONCRETE SLABS NOT LESS THAN 12" WIDE



1 NO 4 BAR LIFT LOOP



**FIELD TILE JUNCTION VAULT**



**SECTION A-A**

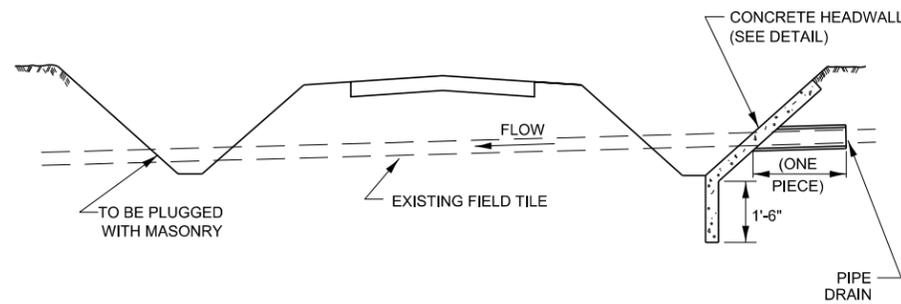
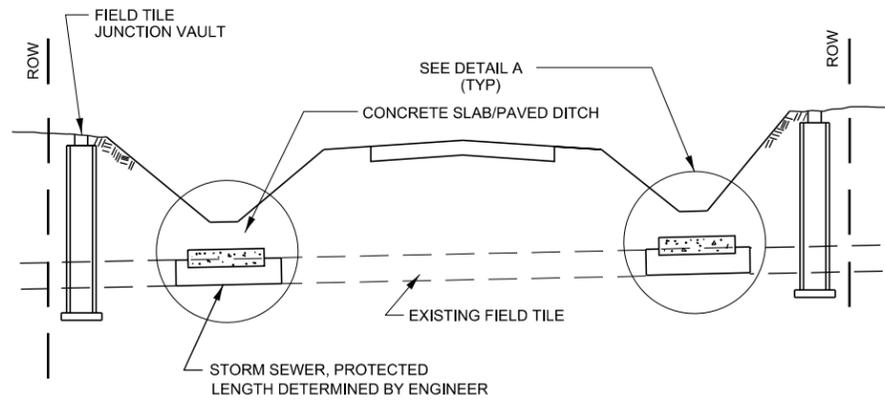
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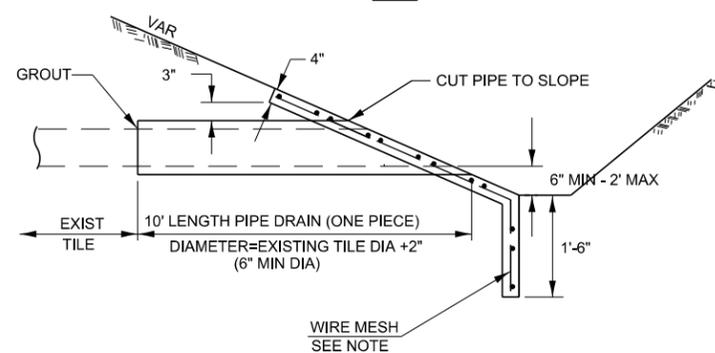
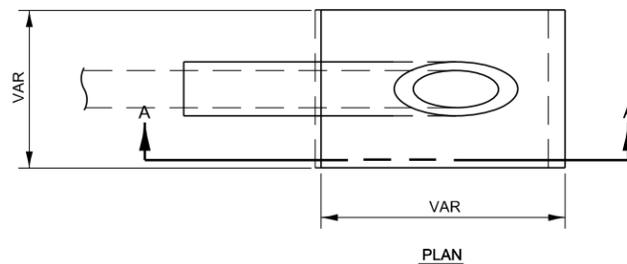
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

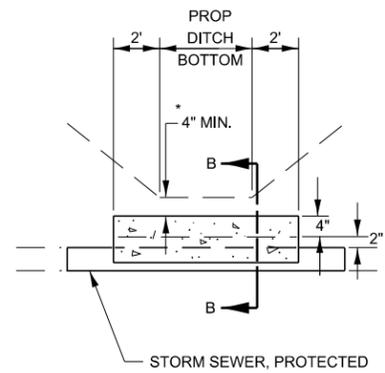


**FIELD TILE REPLACEMENT**



**SECTION A-A**

**CLASS SI CONCRETE HEADWALLS**



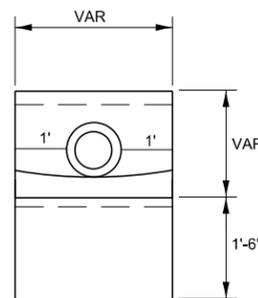
**DETAIL A**

NO SCALE

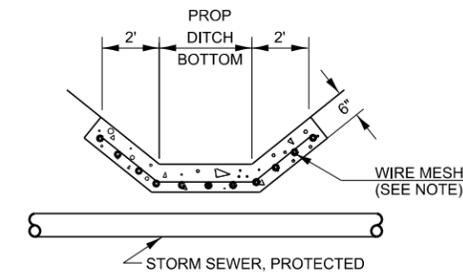
- \* IF A 4" COVER CAN NOT BE PROVIDED A PAVED DITCH SHALL BE CONSTRUCTED AS SHOWN IN DETAIL C.
- NOTES**
1. WIDTH OF CONCRETE SLAB SHALL BE THE SAME AS THE TRENCH WIDTH IN ACCORDANCE WITH SECTION 550 OF THE STD. SPECIFICATIONS, OR 3' MIN.
  2. CONCRETE FOR SLAB, HEADWALL AND PAVED DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "MISCELLANEOUS CONCRETE."
  3. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT

**NOTES**

1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT

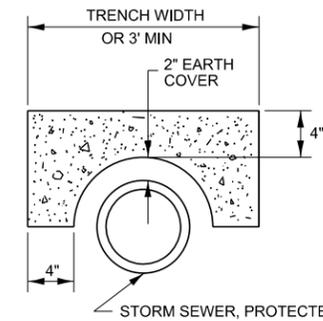


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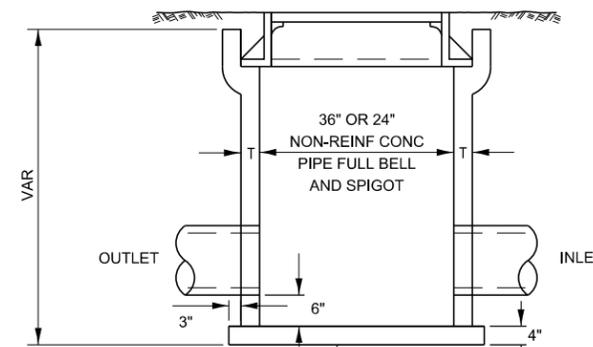


**DETAIL C**

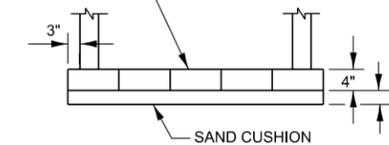
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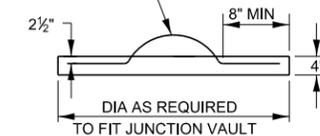
**SECTION B-B**



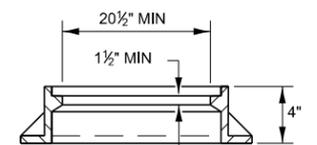
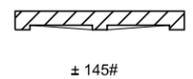
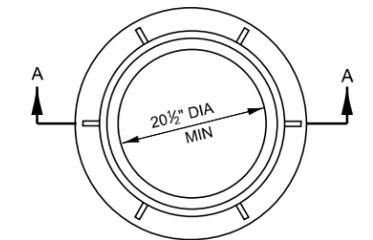
CLASS SI CONCRETE OR PRECAST REINFORCED CONCRETE SLABS NOT LESS THAN 12" WIDE



1 NO 4 BAR LIFT LOOP



**FIELD TILE JUNCTION VAULT**



**SECTION A-A**

ALTERNATE MATERIALS FOR WALLS	T
PRECAST REINFORCED CONCRETE RISERS	4"
CONCRETE MASONRY UNIT	5"
MONOLITHIC CONCRETE	6"

**NOTES**

1. THE CONTRACT UNIT PRICE FOR FIELD TILE JUNCTION VAULT SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE FRAME AND GRATE OR PRECAST CONCRETE LID AND WHEN REQUIRED, THE SAND CUSHION.
2. ALL FIELD TILE JUNCTION VAULTS SHALL BE 2'-0" IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.

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	DRAWN -	REVISED -
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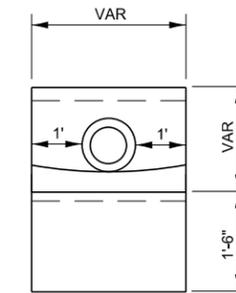
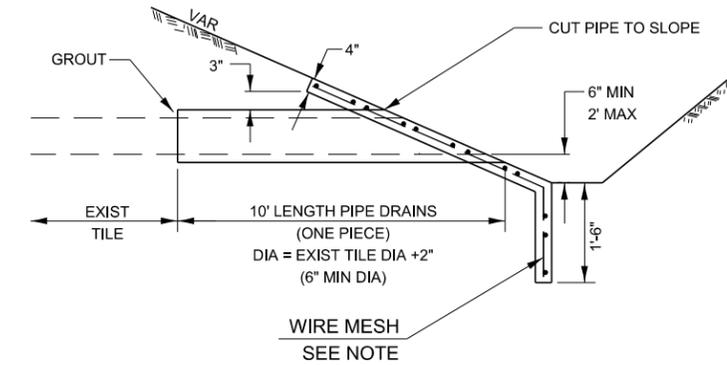
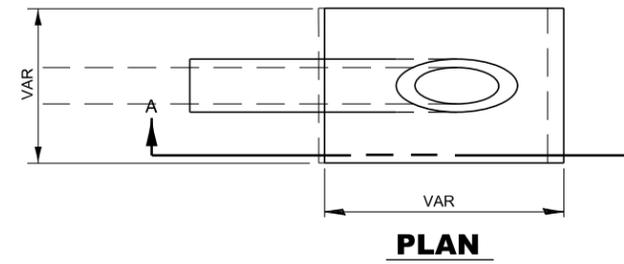
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**NOTES**

1. ANY FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT



**SECTION A-A**

**END VIEW**

**PIPE DRAINS & CONCRETE HEADWALLS**

611-3

MODEL: det 3 det 1b  
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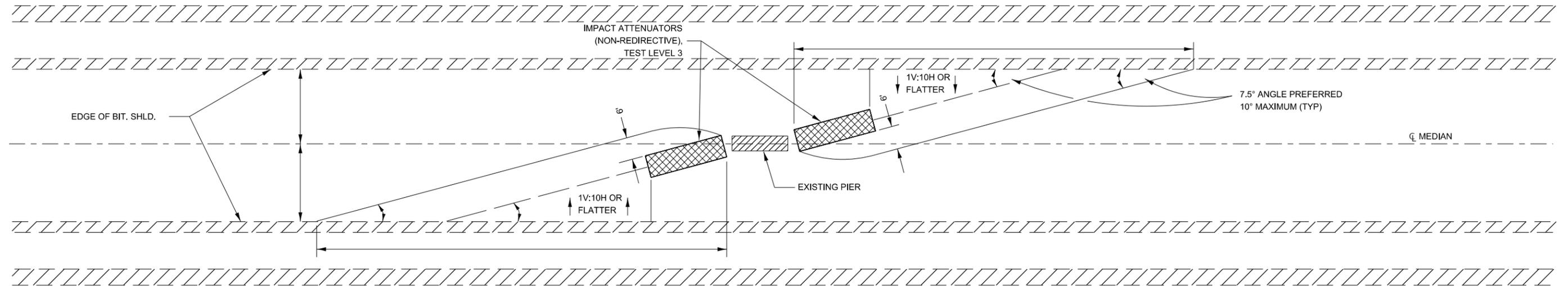
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DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

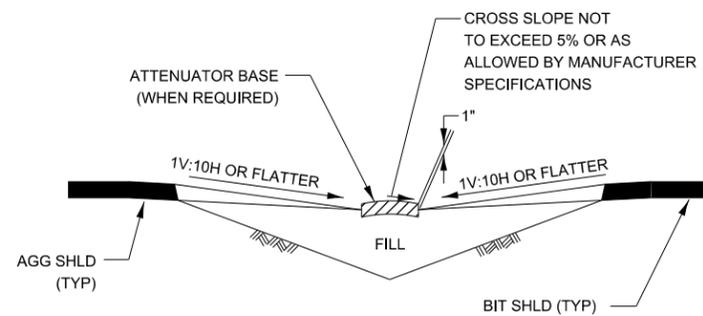
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

## GENERAL NOTES

1. THE 10:1 SLOPE CONTROLS NOSE OF ATTENUATOR BASE ELEVATION.
2. ATTENUATOR BASE GRADE PARALLELS EDGE OF PAVEMENT GRADE.
3. SLOPE ADJACENT TO ATTENUATOR BASE SHALL BE 10:1 OR FLATTER.



### IMPACT ATTENUATOR LAYOUT AND GRADING PLAN

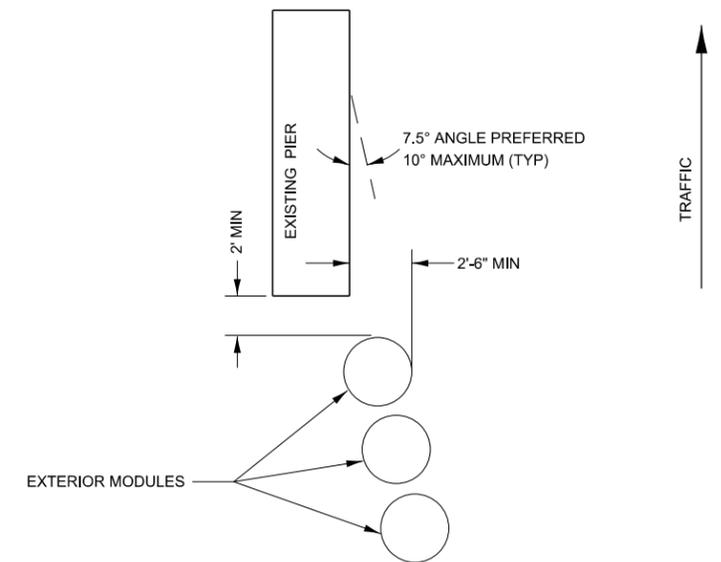


#### SECTION A - A

**NOTE:**

ATTENUATOR BASE SHALL BE PER MANUFACTURER SPECIFICATIONS EXCEPT SAND MODULE SYSTEMS SHALL HAVE THE FOLLOWING ADDITIONAL REQUIREMENTS:

1. ATTENUATOR BASE SHALL PROVIDE A 1' BUFFER ALONG THE SIDES AND FRONT OF THE ARRAY.
2. SAND MODULE SYSTEMS SHALL BE PLACED ON A HMA OR CONCRETE BASE.



#### TYPICAL EXTERIOR MODULE LAYOUT

631-1

MODEL.dwg 3 14/11/16  
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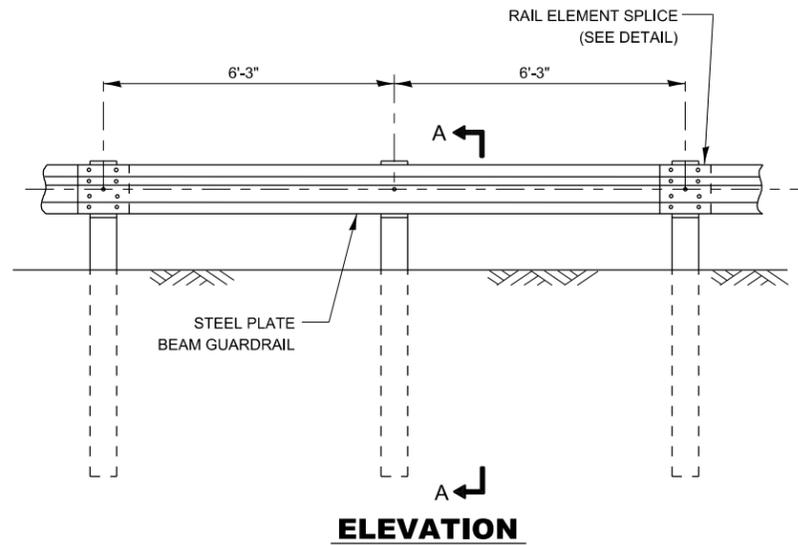
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PLOT DATE = 10/3/23	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IMPACT INSTALLATION DETAILS**

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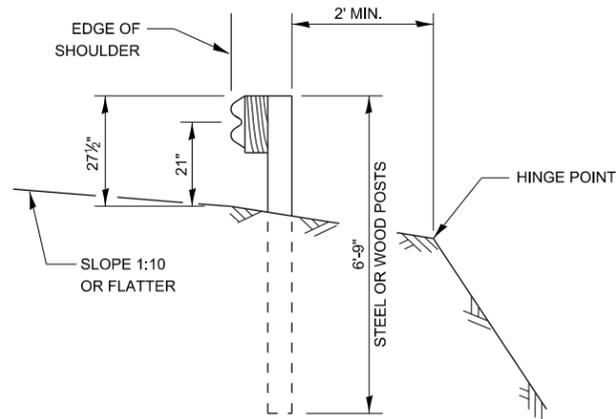
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



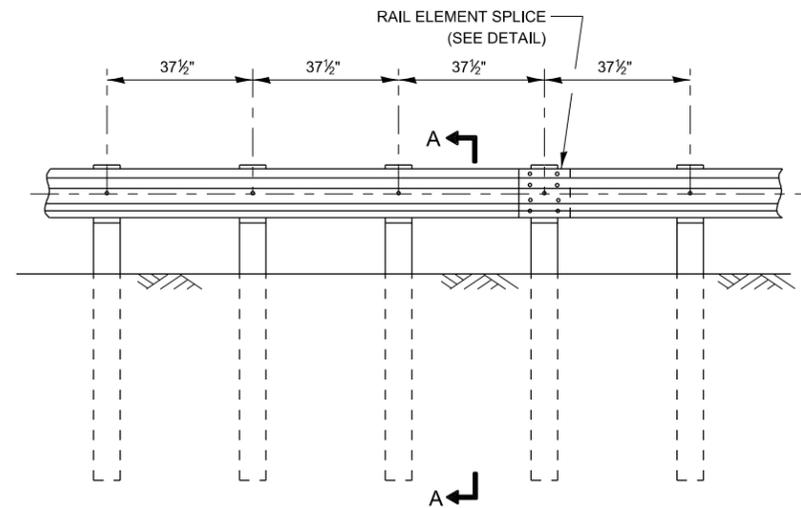
**ELEVATION**

**TYPE A**

6'-3" TYPICAL POST SPACING



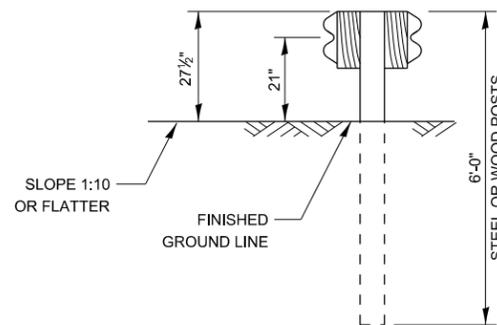
**SECTION A-A**



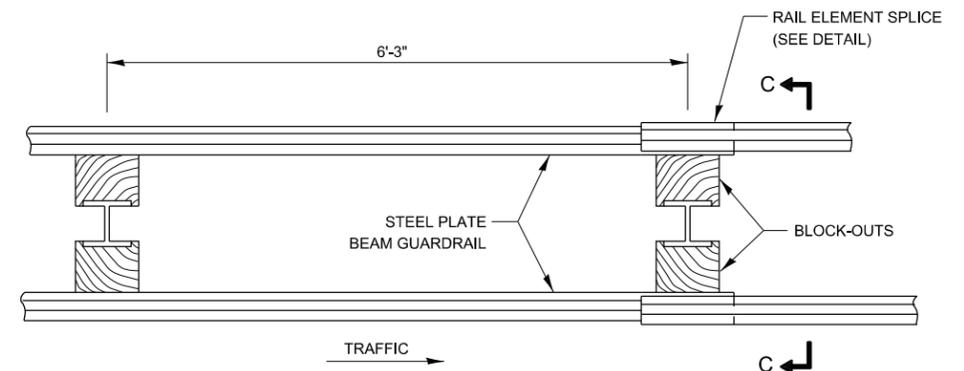
**ELEVATION**

**TYPE B**

37 1/2" CLOSED POST SPACING



**SECTION C-C**



**PLAN**

**TYPE D**

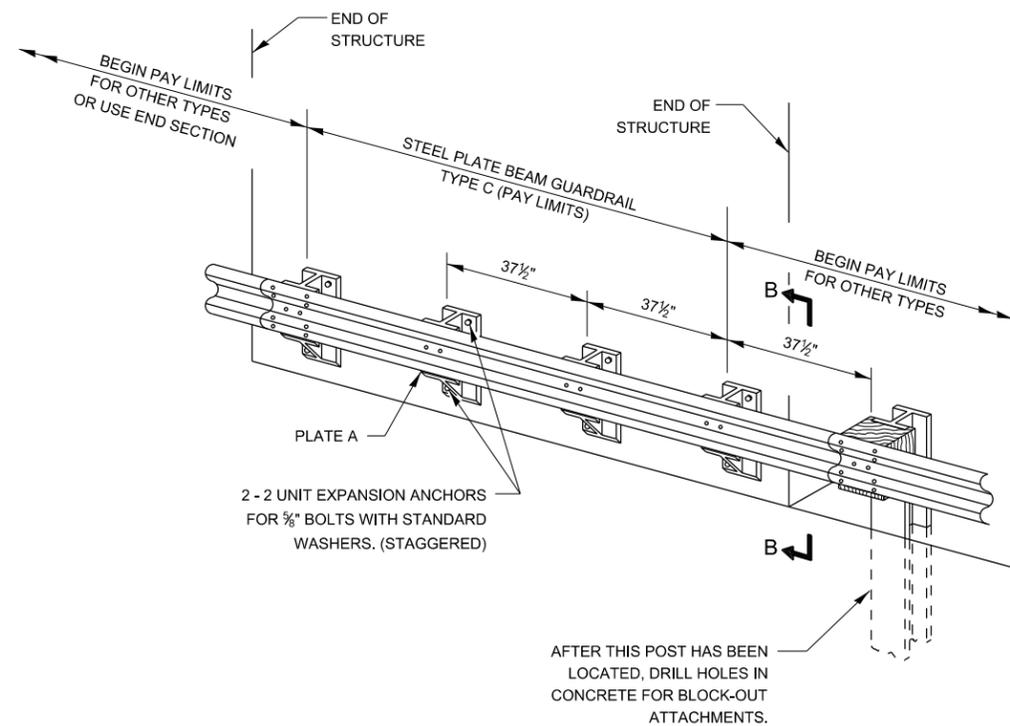
DOUBLE STEEL PLARE BEAM GUARDRAIL  
6'-3" TYPICAL POST SPACING

**GENERAL NOTES**

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

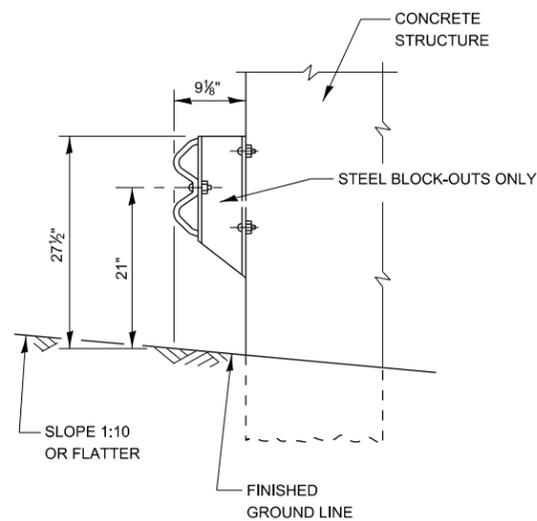
THE EXISTING STEEL POSTS MAY BE DRILLED TO MATCH THE BOLT PATTERN SHOWN HEREIN FOR THE WOOD BLOCK-OUTS, OR A NEW STEEL POST SHALL BE PROVIDED.

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



**TYPE C**

37 1/2" BLOCK-OUT SPACING



**SECTION B-B**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

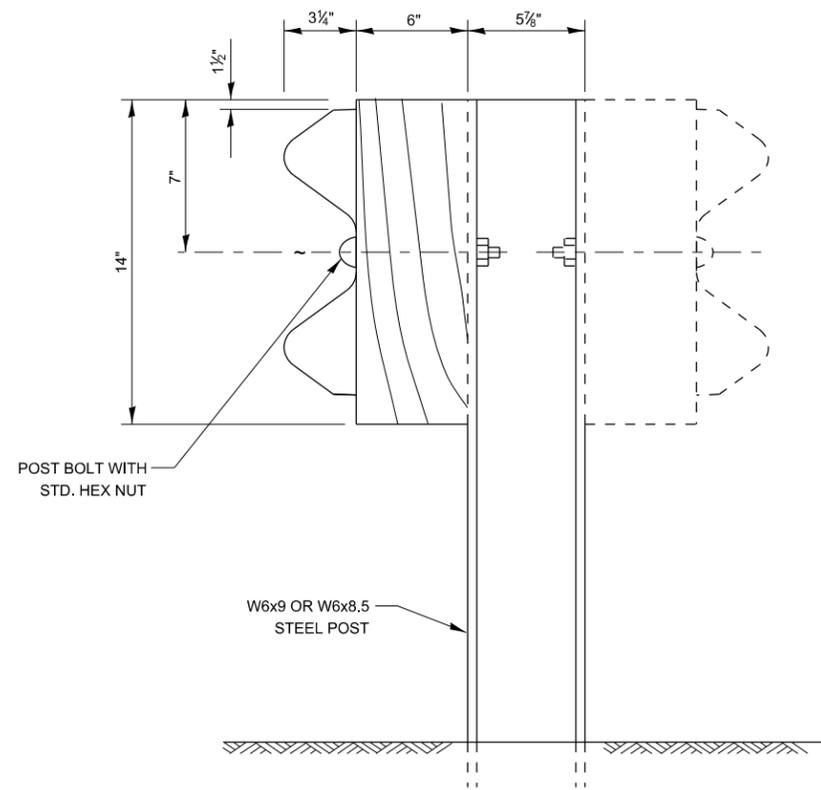
REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL

SCALE: SHEET OF SHEETS STA. TO STA.

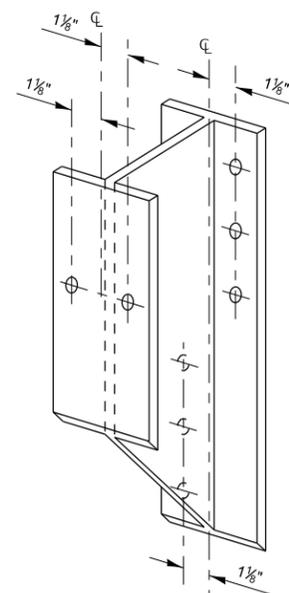
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

633-1A

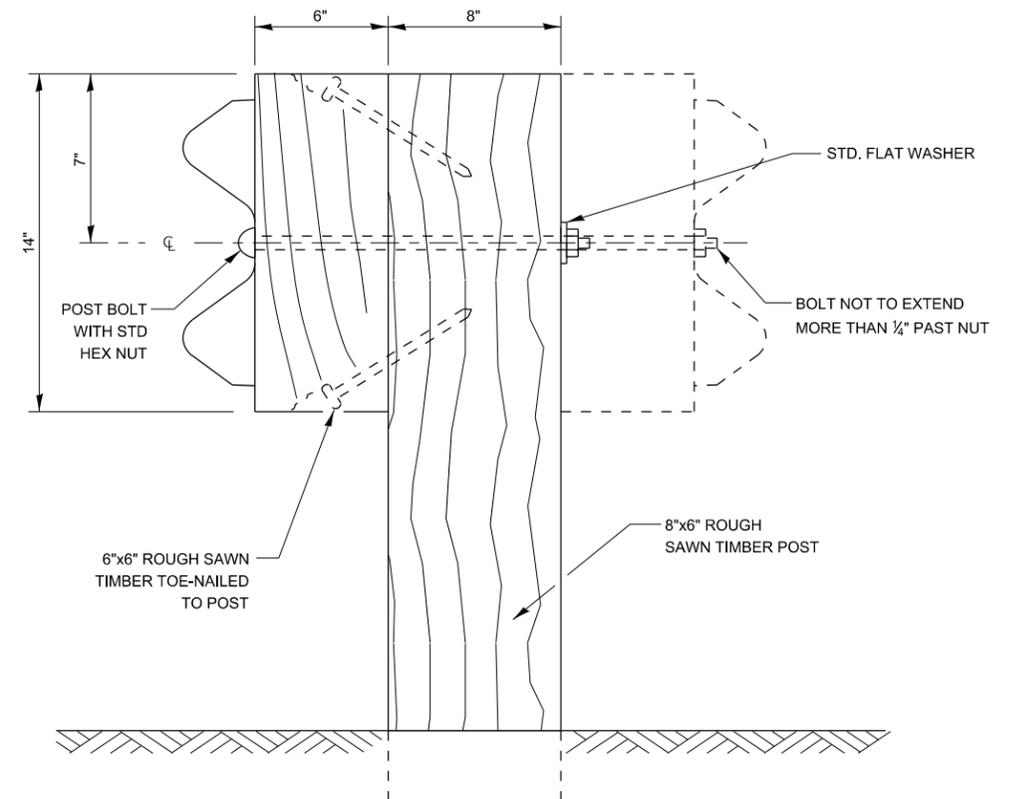
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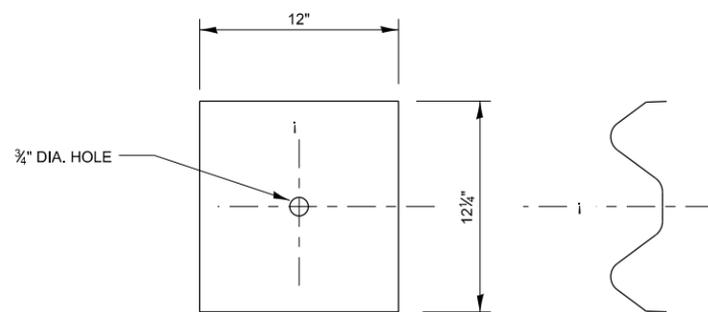
**STEEL POST CONSTRUCTION**



**STEEL BLOCK-OUT DETAIL**

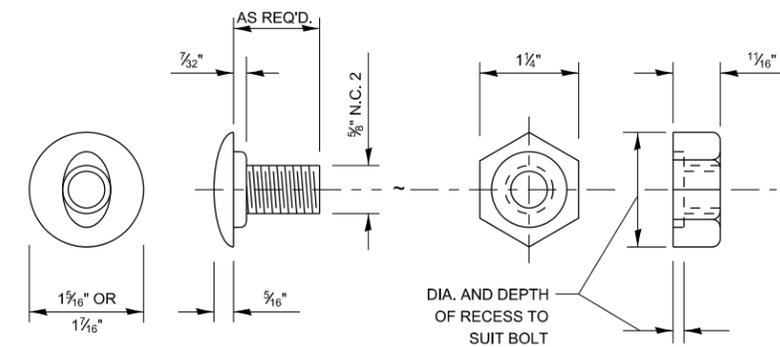


**WOOD POST CONSTRUCTION**



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

**PLATE A**



**POST OR SPLICE BOLT & NUT**

MODEL det 3 dwt 11b  
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633-1B

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	DRAWN -	REVISED -
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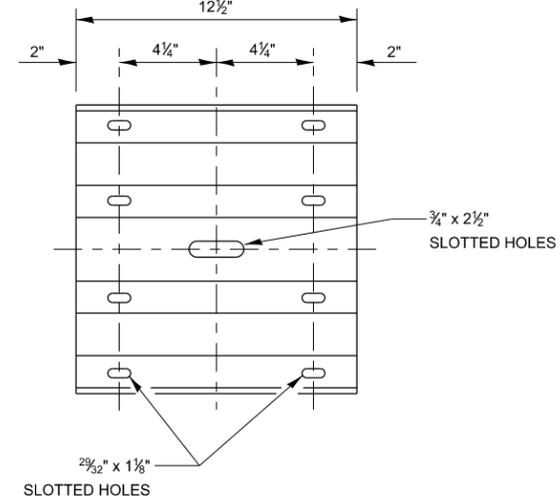
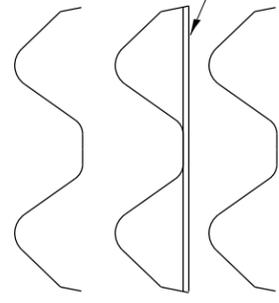
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL

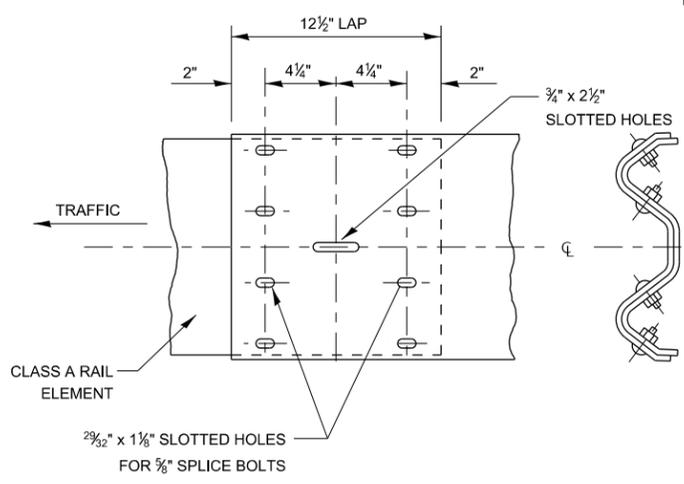
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

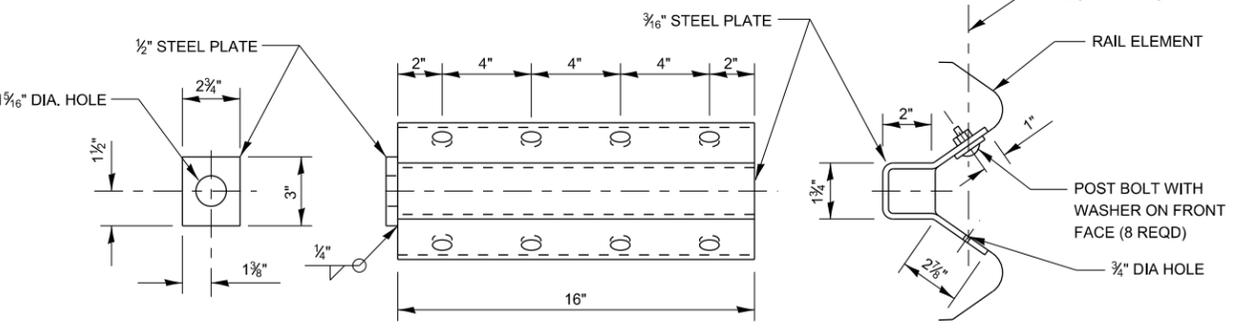
PLACE STANDARD END SHOE BETWEEN SPLICE PLATE AND RAIL ELEMENT



**SPLICE PLATE**

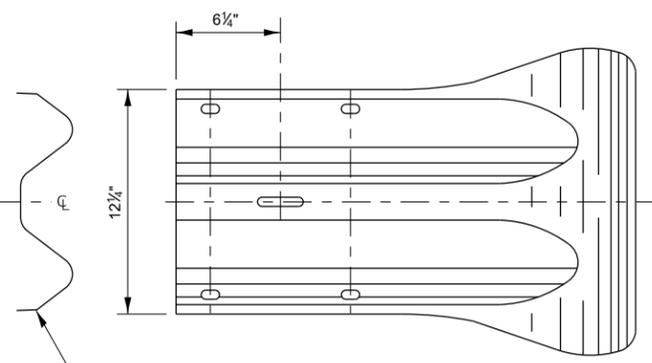
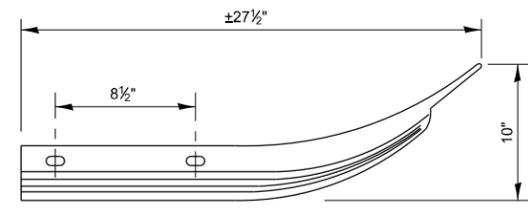


**RAIL ELEMENT SPLICE**

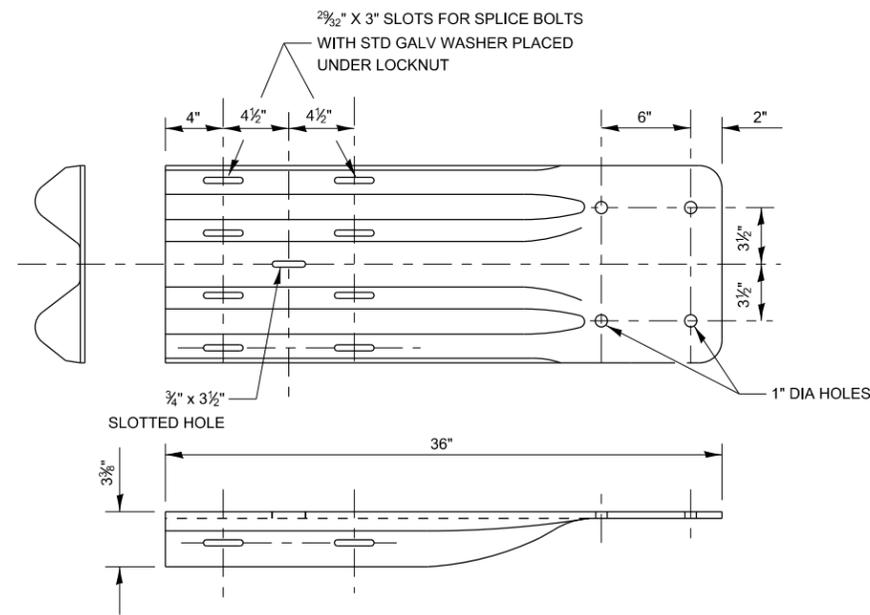


NOTE:  
ANCHOR PLATE T SHALL BE USED TO ATTACH CABLE ASSEMBLY TO GUARDRAIL WHEN REQUIRED ON TRAFFIC BARRIER TERMINALS.

**ANCHOR PLATE T DETAILS**



**END SECTION**

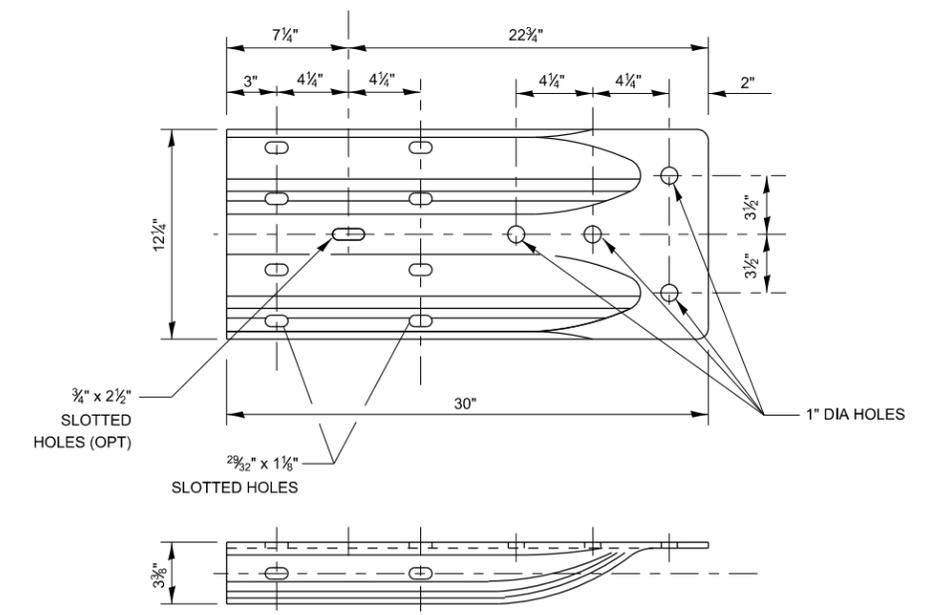


NOTE:  
WHEN END SHOE IS ATTACHED TO A BRIDGE PARAPET WHICH HAS AN EXPANSION JOINT, THE BOLTS SHALL BE PROVIDED WITH A LOCKNUT OR DOUBLE NUT AND SHALL BE TIGHTENED ONLY TO A POINT THAT WILL ALLOW GUARDRAIL MOVEMENT.

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

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

**END SHOE**



**ALTERNATE END SHOE**

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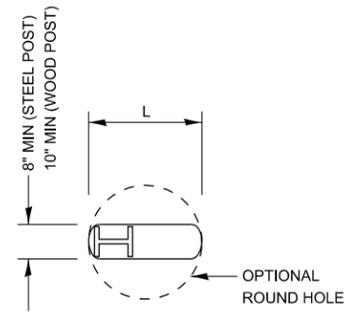
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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

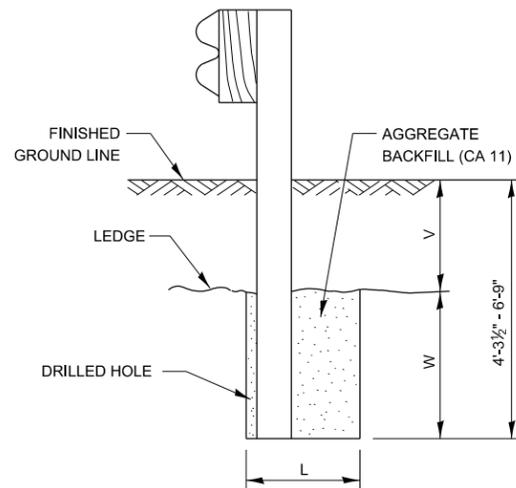
REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

633-1C



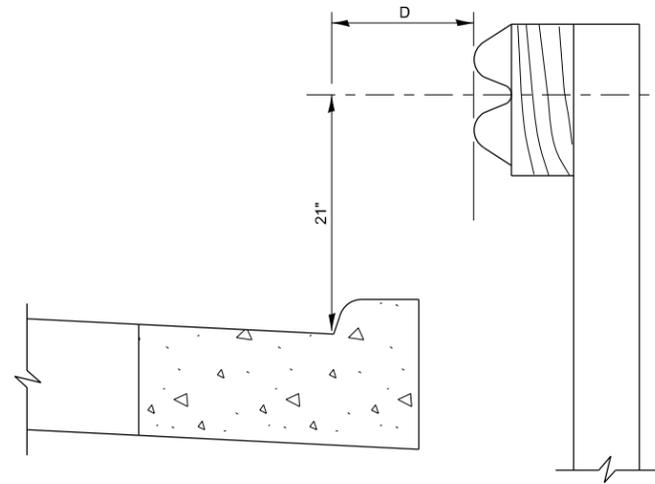
**PLAN**



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

**ELEVATION**

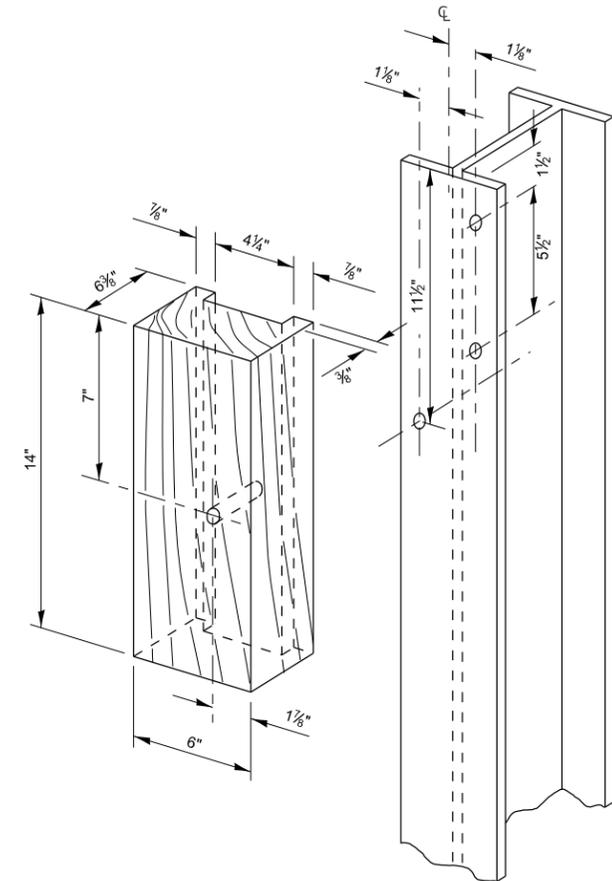
**FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED**



NOTE:  
IF IT IS NECESSARY FOR D TO BE MORE THAN 12\"/>

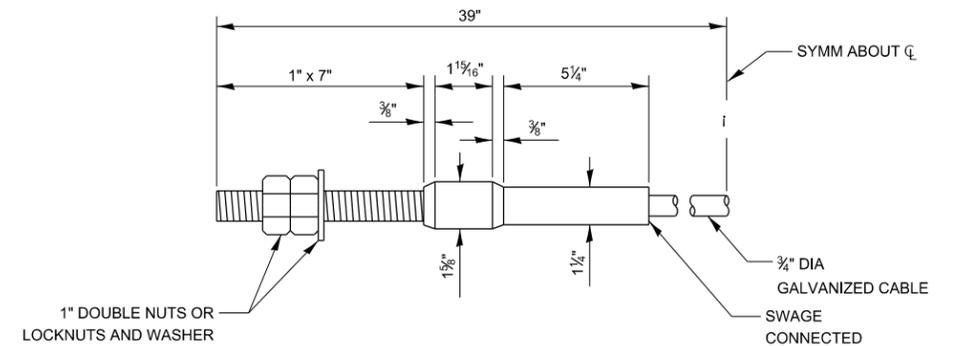
**GUARDRAIL PLACED BEHIND CURB**

(D = 0 DESIRABLE TO 12\"/>



**WOOD BLOCK-OUT AND STEEL POST DETAILS**

V	W	L	
		STEEL POST	WOOD POST
0" - 18"	24"	21"	23"
>18" - 41 1/2"	12"	8"	10"
>41 1/2" - 53 1/2"	12" - 0"	8"	10"



**CABLE ASSEMBLY**

40,000 LBS MIN BREAKING STRENGTH  
TIGHTEN TO TAUT TENSION.

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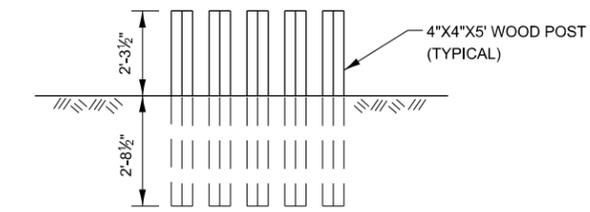
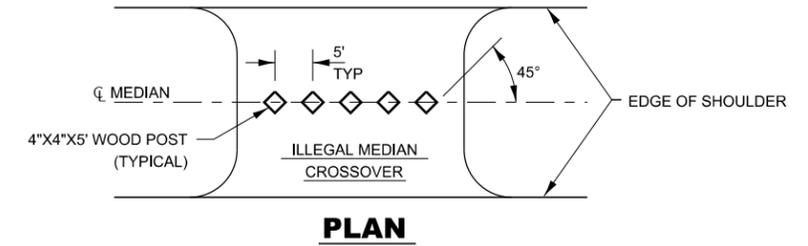
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

633-1D



**ELEVATION**  
**WOOD POST DETAIL**

634-1

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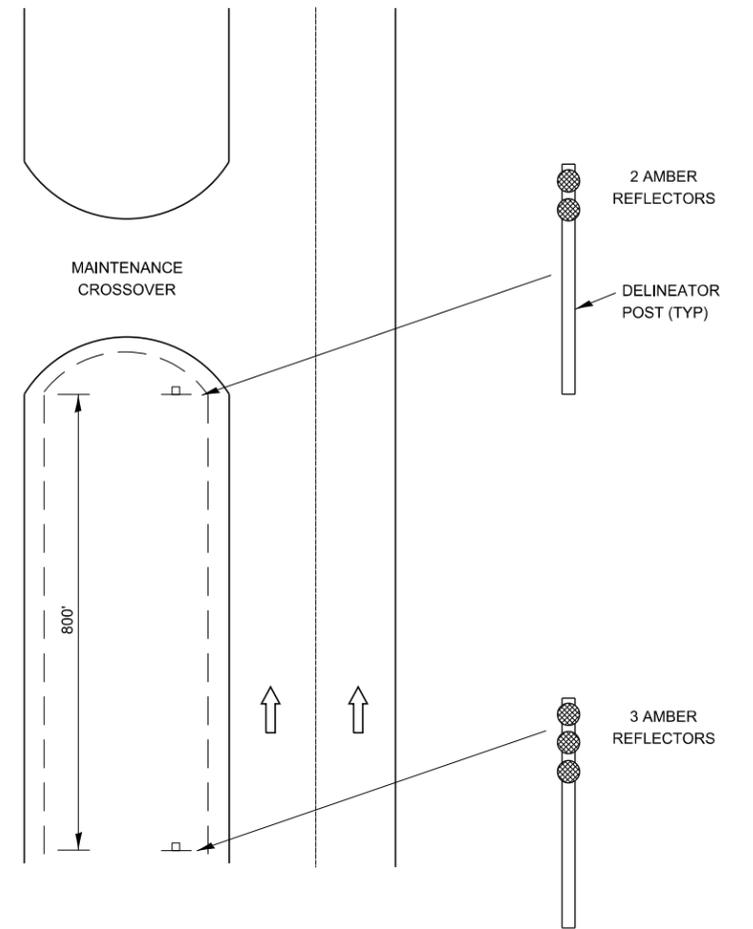
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PLOT DATE = 10/3/23	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

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**DELINEATION  
 FOR MAINTENANCE  
 CROSSOVER  
 (TYPICAL FOR BOTH DIRECTIONS)**

635-2

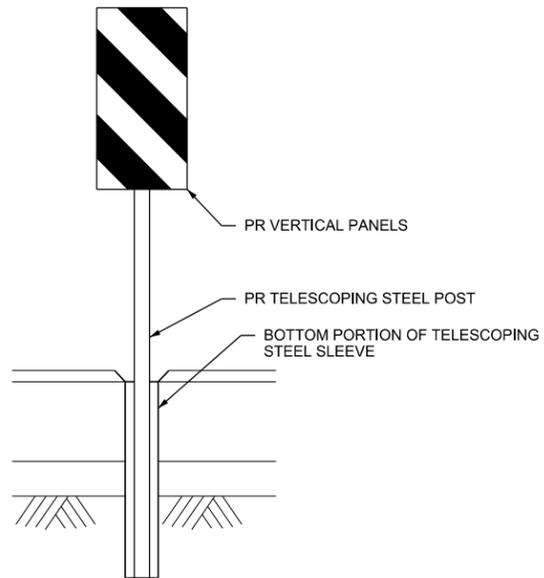
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PLOT DATE = 10/3/23	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

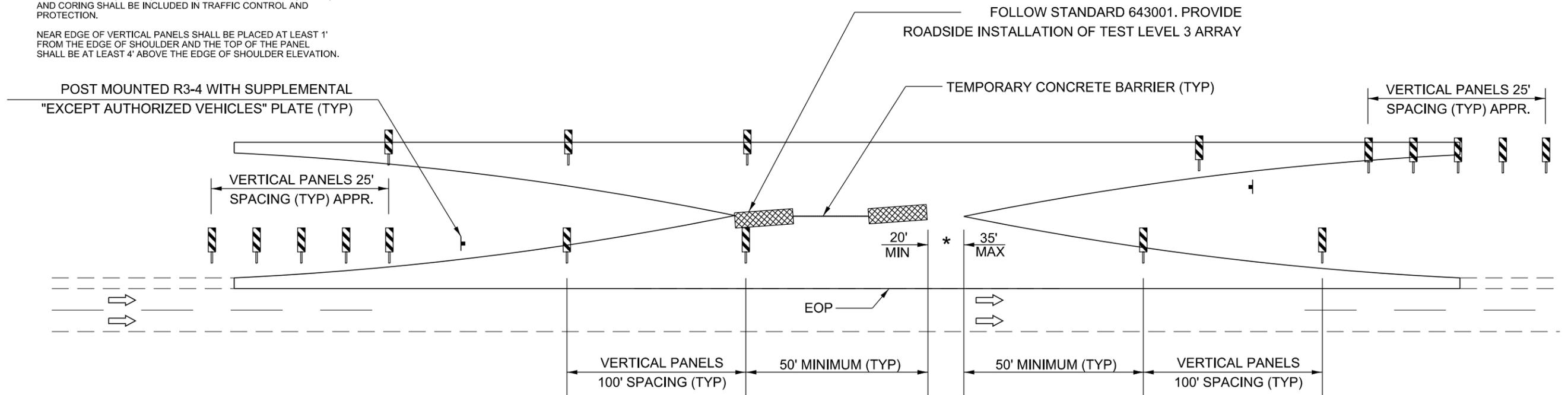
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				





NOTE: FOR INSTALLATION OF VERTICAL PANELS IN AREAS OF CROSSOVER PAVEMENT, 3" Ø HOLES SHALL BE CORED THROUGH PAVEMENT FOR PLACEMENT. TELESCOPING STEEL POLES SHALL BE PLACED 1" BELOW SURFACE AS SHOWN, AND WORK SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER. WHEN OPENING CROSSOVER, PANELS SHALL BE REMOVED AND HOLES SHALL BE LEFT IN PLACE. COST OF PANELS, POSTS, SLEEVES, TYPE III BARRICADES, SIGNS, AND CORING SHALL BE INCLUDED IN TRAFFIC CONTROL AND PROTECTION.

NEAR EDGE OF VERTICAL PANELS SHALL BE PLACED AT LEAST 1' FROM THE EDGE OF SHOULDER AND THE TOP OF THE PANEL SHALL BE AT LEAST 4' ABOVE THE EDGE OF SHOULDER ELEVATION.



**LEGEND**

- TRAFFIC FLOW ARROW
- TYPE III BARRICADE
- IMPACT ATTENUATOR
- BARREL W/STEADY BURNING LIGHT
- POST MOUNTED SIGN
- BARRIER WALL MARKER
- TEMPORARY CONCRETE BARRIER
- VERTICAL SIGN PANEL

\* REMOVE GAP FOR FULL CLOSURE

**CROSSOVER CLOSURE-TYPICAL**

636-1

NOT TO SCALE

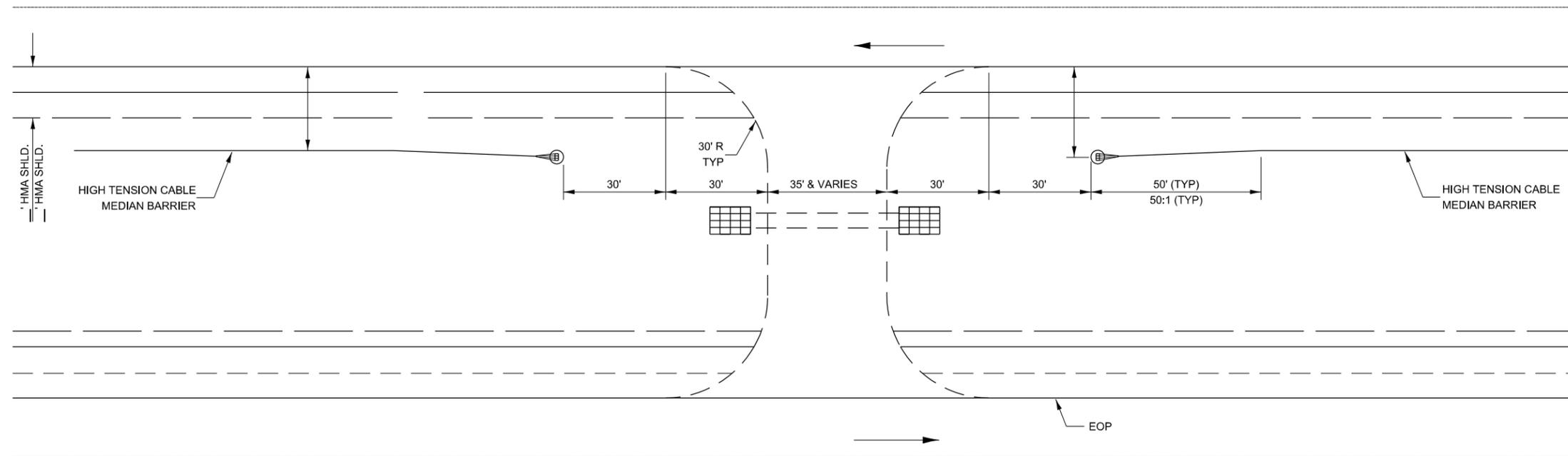
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

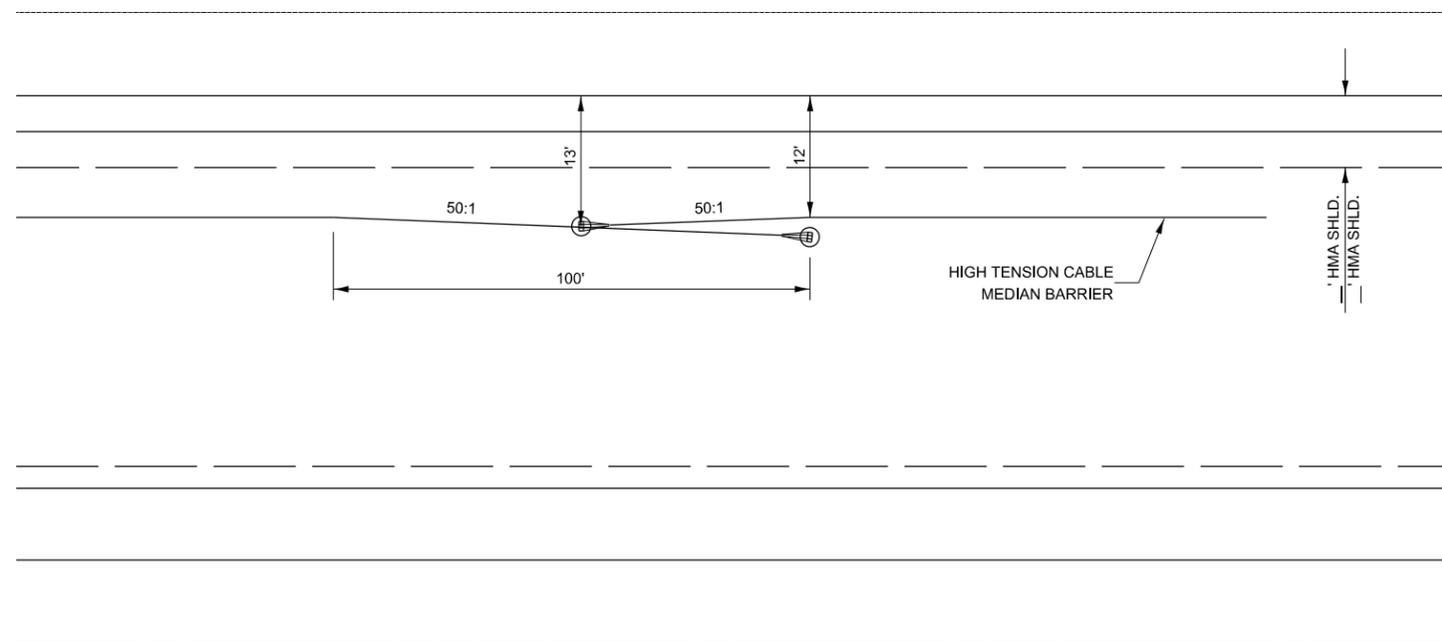
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT				



**MAINTENANCE CROSSOVERS**

**MEDIAN CROSSOVERS**



**HIGH TENSION CABLE BARRIER OVERLAP DETAIL**

644-1

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

# LAND SECTION MARKERS

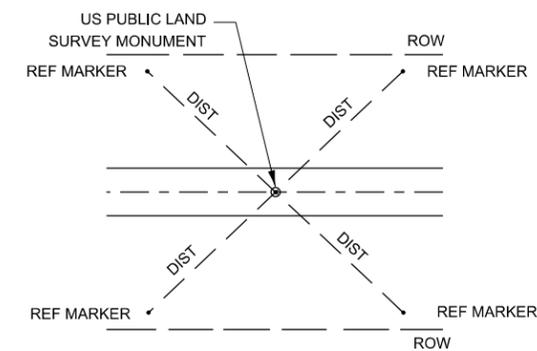
## NOTES

PERMANENT SURVEY MARKERS, OF THE TYPE SPECIFIED

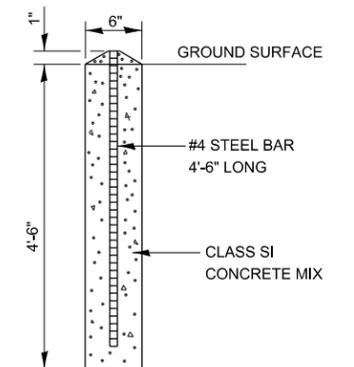
SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, WHICH WILL BE PAYMENT IN FULL FOR FURNISHING, INSTALLING AND MARKING SAID MARKERS.

LAND SECTION MARKERS

SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, WHICH WILL BE PAYMENT IN FULL FOR SETTING TIE POINTS, SETTING FOUR CONCRETE REFERENCE MARKERS, PREPARING MONUMENT RECORDS, RECORDING AT COUNTY RECORDER'S OFFICE AND PROVIDING A COPY TO THE DISTRICT OFFICE.



**PLAN**



**SECTION**

CONCRETE REFERENCE MARKER

667-1

MODEL: det 3.dwg  
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