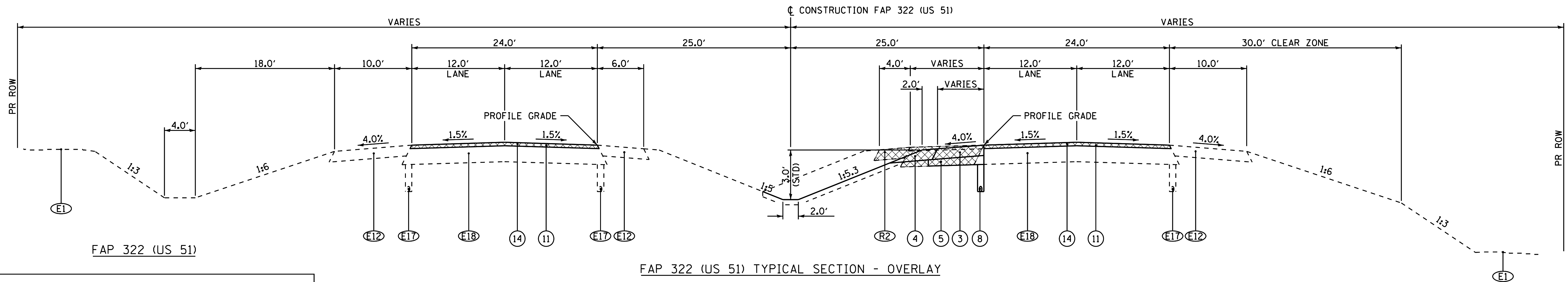
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	11-13	CHRISTIAN	437	51
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

72961



FAP 322 (US 51)

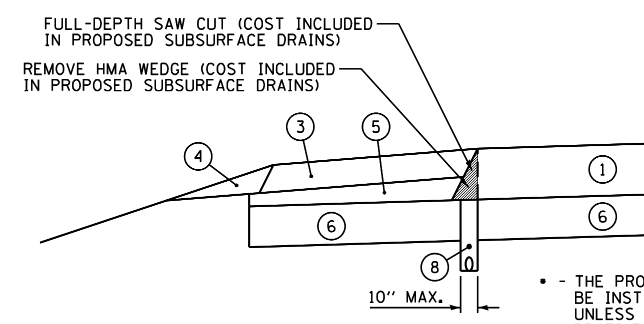
FAP 322 (US 51) TYPICAL SECTION - OVERLAY

STA 555+00.00 TO STA 560+25.22 NB LANES (W/O MEDIAN SHOULDER)
STA 560+25.22 TO STA 567+63.00 NB LANES (W/ MEDIAN SHOULDER)
STA 564+66.00 TO STA 569+00.18 SB LANES (W/O MEDIAN SHOULDER)
STA 569+00.18 TO STA 572+75.00 SB LANES (W/ MEDIAN SHOULDER)
STA 572+75.00 TO STA 573+90.00 SB LANES (W/O MEDIAN SHOULDER)

STRUCTURAL DESIGN TRAFFIC: Year: 2015
PV = 5248 SU = 190 MU = 512
ROAD/STREET CLASSIFICATION: Class: 1
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 32% S = 45% M = 45%
TRAFFIC FACTOR: Actual TF = 4.27 AC Type = 20
Minimum TF = 2.45
SUBGRADE SUPPORT RATING:
SSR = POOR

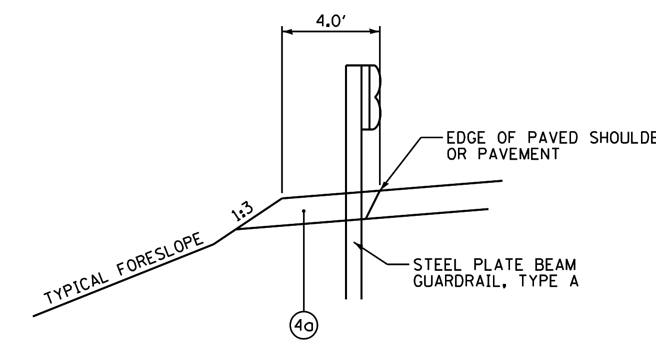
SIDE ROADS

STRUCTURAL DESIGN TRAFFIC: Year: 2015
PV = 2280 SU = 72 MU = 48
ROAD/STREET CLASSIFICATION: Class:2
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 32% S = 45% M = 45%
TRAFFIC FACTOR: Actual TF = 0.50 AC Type = 20
Minimum TF = 0.24
SUBGRADE SUPPORT RATING:
SSR = POOR



• - THE PROPOSED UNDERDRAINS SHALL BE INSTALLED AT A STANDARD DEPTH, UNLESS THE PROPOSED UNDERDRAIN PROFILE IS PROVIDED IN THE SCHEDULE OF QUANTITIES.

PIPE UNDERDRAIN DETAIL



GUARDRAIL WIDENING DETAIL

LEGEND

- E1 EXISTING GROUND
- E2 EXISTING 9″-6″-9″ PCC CONCRETE PAVEMENT
- E3 EXISTING PCC BASE COURSE, 8″
- E4 EXISTING PCC BASE COURSE WIDENING, 9″
- E5 EXISTING HOT-MIX ASPHALT BASE COURSE, 10″
- E6 EXISTING HOT-MIX ASPHALT BINDER COURSE, 14 1/2″
- E7 EXISTING HOT-MIX ASPHALT SURFACING, 1 1/2″
- E8 EXISTING HOT-MIX ASPHALT SURFACING, 3″
- E9 EXISTING HOT-MIX ASPHALT SURFACING, 3″ - 6″
- E10 EXISTING HOT-MIX ASPHALT SURFACING, VAR
- E11 EXISTING HOT-MIX ASPHALT SHOULDERS, 6″
- E12 EXISTING HOT-MIX ASPHALT SHOULDERS, 8″
- E13 EXISTING SUB-BASE GRANULAR MATERIAL, 4″
- E14 EXISTING LIME MODIFIED SOIL, 12″
- E15 EXISTING AGGREGATE SHOULDER, VAR
- E16 EXISTING EARTH FILL
- E17 EXISTING PIPE UNDERDRAIN
- E18 EXISTING FD HOT-MIX ASPHALT PAVEMENT, 13¾″
- R1 REMOVE EXISTING HMA SHOULDERS
- R2 REMOVE EXISTING HMA PAVEMENT, 13¾″ AND HMA SHOULDERS, 8″
- R3 REMOVE EXISTING PAVEMENT, SHOULDERS, AND WIDENING
- 1 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13¾″ [SEE MIXTURE REQUIREMENTS AND PAVING LIFT DIAGRAMS ON SHEET 3 FOR THE PAVEMENT COMPOSITION]
- 2 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9¼″ [SEE MIXTURE REQUIREMENTS AND PAVING LIFT DIAGRAMS ON SHEET 3 FOR THE PAVEMENT COMPOSITION]
- 3a HOT-MIX ASPHALT SHOULDERS 8″
- 3 HOT-MIX ASPHALT SHOULDERS 8″ (WITH RUMBLE STRIPS, STD 642001)
- 4 AGGREGATE SHOULDERS, TYPE B
- 5 SUB-BASE GRANULAR MATERIAL, TYPE C
- 6 PROCESSING MODIFIED SOIL 12″ (LIME)
- 7 TOPSOIL, 4″
- 8 PIPE UNDERDRAINS, 4″ (STD 601001)
- 9 AGGREGATE BASE COURSE, TYPE A, 10″
- 10 BITUMINOUS SURFACE TREATMENT CLASS A-3
- 11 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2″
- 12 HOT-MIX ASPHALT BASE COURSE, 10″ (ANY WIDTH)
- 13 HOT-MIX ASPHALT BASE COURSE, 9½″ (ANY WIDTH)
- 14 HOT-MIX ASPHALT SURFACE REMOVAL, 2″
- 15 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 2″
- 16 HOT-MIX ASPHALT BASE COURSE, 8½″ (ANY WIDTH)
- 17 SUBBASE GRANULAR MATERIAL, TYPE A 8″
- 18 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 2 1/4″
- 19 LEVELING BINDER (MACHINE METHOD), N70, VARIABLE DEPTH (2¼″ MAX) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, VARIABLE DEPTH (2¼″ MIN)
- 20 SUBBASE GRANULAR MATERIAL, TYPE A 12″
- A SHOULDER SLOPE - HIGH SIDE OF SE: WHEN THE SE RATE OF THE PAVEMENT IS BETWEEN 0 AND 4% THE SHOULDER SHALL BE SLOPED AT 4%. WHEN THE SE RATE OF THE PAVEMENT EXCEEDS 4% THE SHOULDER SHALL BE SLOPED SO THAT THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SHALL BE 8%.
- B SHOULDER SLOPE - LOW SIDE OF SE: SLOPE SHALL BE THE SAME AS THE SE BUT NOT LESS THAN 4%.
- C TURN LANE SLOPE - HIGH SIDE OF SE: WHEN THE SE RATE OF THE PAVEMENT IS BETWEEN 0 AND 2% THE TURN LANE SHALL BE SLOPED AT 2%. WHEN THE SE RATE OF THE PAVEMENT EXCEEDS 2% THE TURN LANE SHALL BE SLOPED SO THAT THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND TURN LANE SHALL BE 4%.
- D TURN LANE SLOPE - LOW SIDE OF SE: SLOPE SHALL BE THE SAME AS THE SE BUT NOT LESS THAN 2%.

NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SHEET 5 OF 12
FAP 322 (US 51)
SECTION 11-13
CHRISTIAN COUNTY

SCALE: NONE DRAWN BY SEB
DATE 7/31/12 CHECKED BY