

42 FORMS @ 8'-0" = 336'-0"

4 1/4"

Form 04

Form 05

Form 06

Form 07

Form 08

Form 09

Form 10

Form 11

Form 12

Form 13

Form 14

Form 15

Form 16

Form 17

Form 18

Form 19

Form 20

Form 21

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Form 42

Form 43

Form 44

Form 45

25 1/4"

SHALLOW EPS FORMS

EPS FORM	DEPTH MIN	DEPTH MAX	FLOW GPM
04	4 1/4"	4 3/4"	102
05	4 3/4"	5 1/4"	119
06	5 1/4"	5 3/4"	137
07	5 3/4"	6 1/4"	156
08	6 1/4"	6 3/4"	174
09	6 3/4"	7 1/4"	192
10	7 1/4"	7 3/4"	211
11	7 3/4"	8 1/4"	229
12	8 1/4"	8 3/4"	248
13	8 3/4"	9 1/4"	266
14	9 1/4"	9 3/4"	285
15	9 3/4"	10 1/4"	303
16	10 1/4"	10 3/4"	322
17	10 3/4"	11 1/4"	341
18	11 1/4"	11 3/4"	359
19	11 3/4"	12 1/4"	378
20	12 1/4"	12 3/4"	397
21	12 3/4"	13 1/4"	416
22	13 1/4"	13 3/4"	434
23	13 3/4"	14 1/4"	453
24	14 1/4"	14 3/4"	472
25	14 3/4"	15 1/4"	491
26	15 1/4"	15 3/4"	510
27	15 3/4"	16 1/4"	528
28	16 1/4"	16 3/4"	547
29	16 3/4"	17 1/4"	566
30	17 1/4"	17 3/4"	585
31	17 3/4"	18 1/4"	604
32	18 1/4"	18 3/4"	623
33	18 3/4"	19 1/4"	642
34	19 1/4"	19 3/4"	660
35	19 3/4"	20 1/4"	679
36	20 1/4"	20 3/4"	698
37	20 3/4"	21 1/4"	717
38	21 1/4"	21 3/4"	736
39	21 3/4"	22 1/4"	755
40	22 1/4"	22 3/4"	774
41	22 3/4"	23 1/4"	793
42	23 1/4"	23 3/4"	812
43	23 3/4"	24 1/4"	830
44	24 1/4"	24 3/4"	849
45	24 3/4"	25 1/4"	868

DEEP EPS FORMS

EconoDrain® Series #4

STANDARD EPS FORMS

96" (8'-0")

STANDARD FORM LENGTH

EconoDrain® Series #4

FINISHED PLAN VIEW

ECONODRAIN® TRENCH SYSTEM

CUT OUTLET PIPE TO MATCH INVERT OF TRENCH DRAIN

IN-LINE OUTLET

CUT OUTLET PIPE TO MATCH PROFILE OF TRENCH DRAIN

BOTTOM OUTLET

NOTES TO THE SPECIFIER:

1. ADD REBAR AS REQUIRED.

2. SPECIFY MINIMUM CONCRETE ENCASEMENT.

3. 4" MINIMUM CONCRETE COVERAGE OF OUTLET PIPE IS RECOMMENDED (LABELED WITH ").

4. FINAL CONCRETE THICKNESS PER LOCAL ENGINEERING REGULATIONS AND GUIDELINES.

CONSTRUCTION NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

2. SECURE OUTLET PIPE PRIOR TO CONCRETING OPERATIONS.

3. FOR ILLUSTRATION ONLY - DO NOT SCALE

24"

5 1/4"

3/4"

DUCTILE IRON ADA GRATE
#EG-0424-1DI-ADA
30.4% OPEN AREA
19.6 SQ. INCHES PER LINEAR FOOT

24"

5 1/4"

3/4"

DUCTILE IRON SLOTTED GRATE
#EG-0424-1DI-B
64.1% OPEN AREA
41.4 SQ. INCHES PER LINEAR FOOT

24"

5 1/4"

3/4"

DUCTILE IRON SLOTTED GRATE
#EG-0424-1CI-B2
55.2% OPEN AREA
35.6 SQUARE INCHES PER LINEAR FOOT

24"

5 1/4"

3/4"

DUCTILE IRON SLOTTED GRATE
#EG-0424-1DI-A
51.9% OPEN AREA
33.5 SQ. INCHES PER LINEAR FOOT

- STANDARD -

48"

5 1/4"

REINFORCED STAMPED STEEL SOLID COVER
#EG0448RGSC - GALVANIZED
#EG0448RSSC - STAINLESS

48"

5 1/4"

PERFORATED STAMPED STEEL GRATE
#EG0448GSP - GALVANIZED
#EG0448SSP - STAINLESS
#EG0448RGSP - REINFORCED GALVANIZED
#EG0448RSSP - REINFORCED STAINLESS
8.5% OPEN AREA
5.4 SQUARE INCHES PER LINEAR FOOT

48"

5 1/4"

SLOTTED STAMPED STEEL GRATE
#EG0448GSB - GALVANIZED
#EG0448SSB - STAINLESS
#EG0448RGSB - REINFORCED GALVANIZED
#EG0448RSSB - REINFORCED STAINLESS
17% OPEN AREA
10.7 SQUARE INCHES PER LINEAR FOOT

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GRATE SELECTION

ECONODRAIN® TRENCH SYSTEM

CUT OUTLET OF PIPE TO MATCH INVERT OF CATCH BASIN

IN-LINE OUTLET

CUT OUTLET PIPE TO MATCH PROFILE OF CATCH BASIN

BOTTOM OUTLET

SET FLOW LINE OF OUTLET PIPE TO REQUIRED SLOPE

NOTES TO THE SPECIFIER:

1. ADD REBAR AS REQUIRED.

2. SPECIFY MINIMUM CONCRETE ENCASEMENT.

3. 4" MINIMUM CONCRETE COVERAGE OF OUTLET PIPE IS RECOMMENDED (LABELED WITH ").

4. FINAL CONCRETE THICKNESS PER LOCAL ENGINEERING REGULATIONS AND GUIDELINES.

CONSTRUCTION NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

2. SECURE OUTLET PIPE PRIOR TO CONCRETING OPERATIONS.

3. FOR ILLUSTRATION ONLY - DO NOT SCALE

ECONODRAIN® TRENCH SYSTEM

CUT OUTLET PIPE TO MATCH PROFILE OF CATCH BASIN

IN-LINE OUTLET

CUT OUTLET PIPE TO MATCH PROFILE OF CATCH BASIN

BOTTOM OUTLET

SET FLOW LINE OF OUTLET PIPE TO REQUIRED SLOPE

NOTES TO THE SPECIFIER:

1. ADD REBAR AS REQUIRED.

2. SPECIFY MINIMUM CONCRETE ENCASEMENT.

3. 4" MINIMUM CONCRETE COVERAGE OF OUTLET PIPE IS RECOMMENDED (LABELED WITH ").

4. FINAL CONCRETE THICKNESS PER LOCAL ENGINEERING REGULATIONS AND GUIDELINES.

CONSTRUCTION NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

2. SECURE OUTLET PIPE PRIOR TO CONCRETING OPERATIONS.

3. FOR ILLUSTRATION ONLY - DO NOT SCALE

BOLT, FLAT WASHER AND LOCKING TOGGLE

PROPER ORIENTATION OF LOCKING TOGGLE, THE BEND FACES DOWNWARD.

EconoDrain® Series #4

GRATE LOCKING DEVICE INSTALLATION

2" x 4" (LONG SIDE UP) OR 4" x 4" ANCHORED TO CONCRETE

TIE WIRE TO STUD

1/4" - 1/2" THK PLYWOOD

EXPANSION / CONTRACTION

SLOPED DRAIN BOTTOM 0.5% TO OUTLET

NOTES TO THE SPECIFIER:

1. ADD REBAR AS REQUIRED

2. SPECIFY REQUIRED DIMENSIONS LABELED WITH (")

3. USING 6" EACH SIDE OF STEEL FRAME AND BELOW EPS FORM AS A RECOMMENDED MINIMUM.

4. SHOW TOP OF GRATE ELEVATION IN PLAN VIEW

5. EXPANSION / CONTRACTION JOINT PER LOCAL ENGINEERING REGULATIONS AND GUIDELINES

6. STANDARD CHANNEL LENGTH IS 8'-0" (96")

7. STANDARD CHANNEL SLOPE IS 0.5%

6"

4 1/2" NOM

CLAMPING BOLT

EXPANSION / CONTRACTION

SLOPED DRAIN BOTTOM 0.5% TO OUTLET

NOTES TO THE SPECIFIER:

1. ADD REBAR AS REQUIRED

2. SPECIFY REQUIRED DIMENSIONS LABELED WITH (")

3. USING 6" EACH SIDE OF STEEL FRAME AND BELOW EPS FORM AS A RECOMMENDED MINIMUM.

4. SHOW TOP OF GRATE ELEVATION IN PLAN VIEW

5. EXPANSION / CONTRACTION JOINT PER LOCAL ENGINEERING REGULATIONS AND GUIDELINES

6. STANDARD CHANNEL LENGTH IS 8'-0" (96")

7. STANDARD CHANNEL SLOPE IS 0.5%

6"

4 1/2" NOM

CLAMPING BOLT

EXPANSION / CONTRACTION

SLOPED DRAIN BOTTOM 0.5% TO OUTLET

NOTES TO THE SPECIFIER:

1. ADD REBAR AS REQUIRED

2. SPECIFY REQUIRED DIMENSIONS LABELED WITH (")

3. USING 6" EACH SIDE OF STEEL FRAME AND BELOW EPS FORM AS A RECOMMENDED MINIMUM.

4. SHOW TOP OF GRATE ELEVATION IN PLAN VIEW

5. EXPANSION / CONTRACTION JOINT PER LOCAL ENGINEERING REGULATIONS AND GUIDELINES

6. STANDARD CHANNEL LENGTH IS 8'-0" (96")

7. STANDARD CHANNEL SLOPE IS 0.5%

TEE - INTERSECTION FINISHED PLAN VIEW

ELL - INTERSECTION FINISHED PLAN VIEW

STEP 1: REMOVE ANCHOR STAND OR STUD IF NEEDED

STEP 2: TRIM INTERSECTION EPS FORM TO HEIGHT OF BOTTOM FRAME

STEP 3: FIELD TRIM INCOMING EPS FORMER AS NEEDED

STEP 4: APPLY ADHESIVE TO MATING SURFACES

STEP 5: TAPE JOINT OF EPS FORMERS AS NEEDED

EconoDrain® Series #4

TEE & ELL INTERSECTION KITS

GENERAL NOTES:

1. ALL DIMENSIONS SHOWN ARE NOMINAL.

2. THIS SYSTEM AVAILABLE ONLY WITH PRE-WELDED GRATE FRAMES.

EconoDrain® Series #4

ENGINEERING / CONSTRUCTION DETAIL TEMPLATE

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