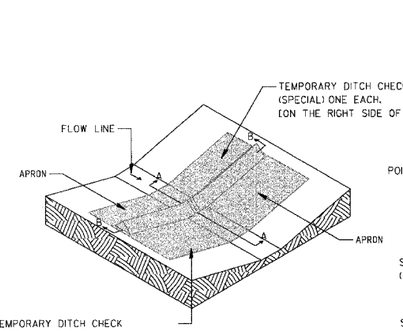
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2661	00-00095-11-BR	LAKE	28	23
	C-91-169-00	ILLINOIS		

CONTRACT NO.: 83789



SILT DIKE UNIT ISOMETRIC

SECTION B-B

STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE 7' UNIT AS SHOWN ON THE DIAGRAM.

POINT 1 MUST BE HIGHER THAN POINT 2 TO INSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

NOTE:
THE INSTALLATION SHOWN ABOVE WOULD BE PAID FOR AS TWO EACH TEMPORARY DITCH CHECK (SPECIAL).

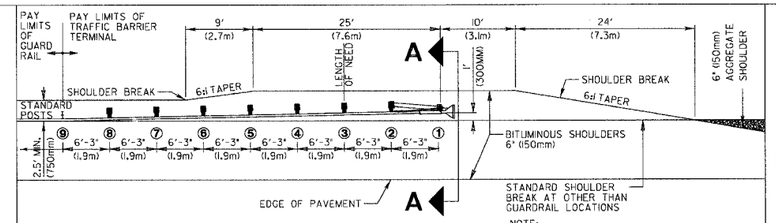
SCALE: 1" = 5'

REVISIONS	DATE
DUAL DIMENSIONS	10/23/01

LakeCounty Division of Transportation — APPROVED BY: C. N. WIESNER DATE: JULY 23, 1999

TRIANGULAR SILT DIKE INSTALLATION FOR ROADWAY DITCH OR DRAINAGE DITCH

LC1006

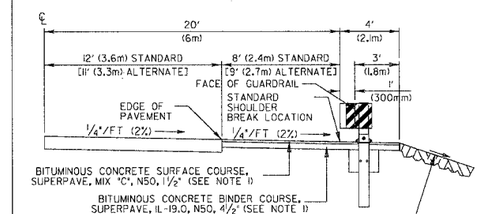


PLAN SCALE 1" = 10'

NOTE:
THIS DETAIL SHOWS THE ET2000 TRAFFIC BARRIER TERMINAL MANUFACTURED BY SYRO STEEL. AN I.D.O.T. APPROVED EQUIVALENT MAY BE SUBSTITUTED WITH THE APPROVAL OF ENGINEER. HOWEVER IT SHOULD BE NOTED THAT DIFFERENT QUANTITIES APPLY FOR OTHER TRAFFIC BARRIER TERMINALS.

THE ET2000 IS SET BACK 1' (300mm) AT POST NUMBER 1. THE SETBACK IS STARTED AT THE GUARD RAIL SECTION PRIOR TO THE TERMINAL AND CONTINUED BACK AT A 1:50 RATIO.

A MODIFIED LOCATION OF SHOULDER BREAK MAY ALSO BE REQUIRED FOR OTHER TERMINALS. REFER TO MANUFACURER AND I.D.O.T. DRAWINGS FOR SPECIFICS.



SECTION A-A
SECTION SCALE 1" = 5'

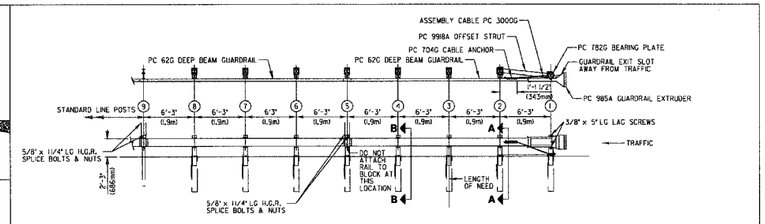
NOTE 1: IF PAVED SHOULDER IS BEING BUILT IN CONJUNTION WITH A ROAD IMPROVEMENT, THEN THE BITUMINOUS MIXES WOULD BE THOSE USED ON THE ROAD IN ORDER TO AVOID MULTIPLE MIX REQUIREMENTS

REVISIONS	DATE
DUAL DIMENSIONS	02/02/02
SUPERPAVE	07/13/04

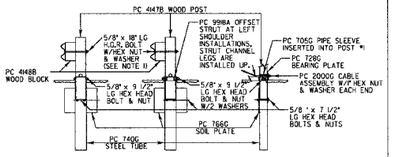
LakeCounty Division of Transportation — APPROVED BY: C. N. WIESNER DATE: AUG. 5, 1999

SHOULDER BREAK AT TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL

LC1014



SCALE: 1" = 6'



SCALE: 1" = 3'

NOTE:
SECTION "B-B" IS SIMILAR @ POST #5 EXCEPT RAIL IS NOT ATTACHED.

REVISIONS	DATE
DUAL DIMENSIONS	05/07/02
NUMBER & TITLE	07/08/04

LakeCounty Division of Transportation — APPROVED BY: C. N. WIESNER DATE: AUG. 6, 1999

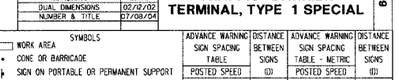
TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL

LC1010

QTY.	MATERIAL DESCRIPTION
800	1 DEEP BEAM GUARD RAIL (12'6")
400	1 DEEP BEAM GUARD RAIL (12'6")
7090	1 PIPE SLEEVE
3660	6 SOIL PLATE
4448B	7 WOOD BLOCK
4447B	8 WOOD POST
1400	1 STEEL TUBE
7825	1 BEARING PLATE
7044	1 CABLE ANCHOR
3000G	1 CABLE ASSEMBLY
9918G	1 OFFSET STRUT
7854	1 GUARDRAIL EXTRUDER HARDWARE
349781	8 5/8"L x 8 1/2" HEX HD BOLT
160801	1 5/8"L x 18" H.G.R. POST BOLT
136601	16 5/8"L x 1 1/4" H.G.R. SPLICE BOLT
347801	16 5/8"L x 9 1/2" HEX HD BOLT
134901	41 5/8" H.G.R. NUT
132001	11 5/8" WASHER
135401	2 3/4"L x 3" LAG SCREW
131001	2 1" HEX NUT
130001	2 1" WASHER

NOTES:
1. THE 5/8" FLAT WASHER IS USED UNDER THE NUT. BEHIND THE POST ONLY. NO WASHER IS USED AT THE BOLT HEAD LOCATIONS.
2. ALL BOLT HEADS & NUTS TO BE AS SHOWN OR MAY, WITHOUT FOUNDATION TUBES. (SEE DRAWING NO. SS 241.)
3. THE ET-2000 IS SHOWN WITH 3 & 4 POST USE FOUNDATION TUBES.
4. THE ET-2000 WAS TESTED ON FLAT LEVEL TERRAIN. IT IS NOT RECOMMENDED ON SLOPES.
5. MANUFACTURER SUGGESTS CUSTOMER TO PROVIDE REFLECTORIZATION OF TERMINAL.

ET-2000 NAIL CURVABLE BOTTOM SYSTEM 1994 EDITION
SYRO INC., NAPERVILLE, IL



ADVANCE WARNING SIGN SPACING TABLE	DISTANCE BETWEEN SIGNS	ADVANCE WARNING SIGN SPACING TABLE - METRIC	DISTANCE BETWEEN SIGNS
POSTED SPEED	(D)	POSTED SPEED	(D)
40 MPH OR LESS	200'	60 km/h OR LESS	60m
45-50 MPH	350'	70-80 km/h	105m
55 MPH	500'	90 km/h	150m

GENERAL NOTES:

1. All warning signs shall have minimum dimensions of 48" x 48" (1.2m x 1.2m).

2. All signs not on the traveled way shall be post mounted if the closure time exceeds four calendar days. All signs shall be posted with the bottom of the sign not less than 7' (2.1m) above the edge of pavement. "NO PARKING" signs shall be installed throughout the work area at the discretion of the engineer.

3. The distance "L" shall be defined as:

SPEED	FORMULA
40 mph or less	L = (WS²)/60
150 km/hr or less	L = (WS²)/150

where W = Width of Closure in FEET (meters) and S = Normal Posted Speed Limit in MPH (km/h)

45 mph (70 km/h) or greater, L = LANE WIDTH x SPEED LIMIT
Lane Width in FEET (meters),
Speed Limit in MPH (km/h).

4. Type II barricades with Type C steady burning lights shall be used in lieu of cones for night operations. All cones and barricades shall be in accordance with Standard 702001.

5. Type A flashing lights shall be used on each approach in advance of the work area during hours of darkness and installed cove the first two signs in each series and the high level warning devices.

6. If the work operation is performed between 9:00 am and 3:00 pm and the work does not exceed 15 minutes, the traffic protection shall be as shown for Standard 703OL Signs, when required, shall be at the spacing specified in the Advance Warning Sign Spacing Table.

7. If the work area is in the parking lane and the parking exists during work hours, a "ROAD WORK AHEAD" sign shall be installed in advance of the work area at the spacing specified in the Advance Warning Sign Spacing Table and the area protected with cones or barricades.

8. Longitudinal dimensions may be adjusted to fit field conditions.

10. Form BT 725 is required.

NOTE:
CONES AT 25' (8M) CENTERS FOR 250' (75M). ADDITIONAL CONES MAY BE PLACED AT 50' (15M) CENTERS. WHEN BARRICADES ARE USED, THE DISTANCE BETWEEN DEVICES MAY BE DOUBLED.

NOT TO SCALE

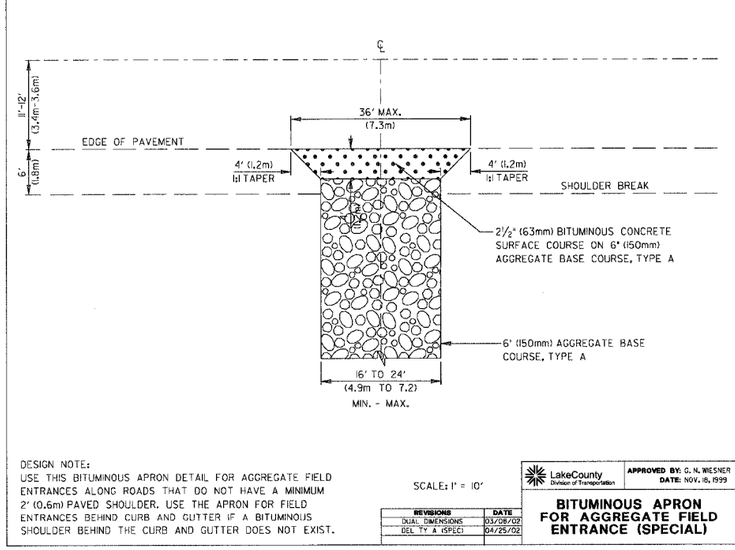
REVISIONS	DATE
FONT, SIZE-GNR	12/16/99
DUAL DIMENSIONS	03/29/02

LakeCounty Division of Transportation — APPROVED BY: ANTHONY KHAWAJA DATE: MARCH 15, 1999

MODIFIED STANDARD 701606-02

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE AND UTILITY OPERATIONS
MULTI-LANE, TWO WAY TRAFFIC, UNDIVIDED OR MULTI-LANE TWO WAY TRAFFIC WITH FLUSH CENTER MEDIAN
ONE DAY OR MORE OPERATIONS
WHERE, AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE PAVEMENT REQUIRING CLOSURE OF ONE OR MORE TRAFFIC LANES

LC7004



DESIGN NOTE:
USE THIS BITUMINOUS APRON DETAIL FOR AGGREGATE FIELD ENTRANCES ALONG ROADS THAT DO NOT HAVE A MINIMUM 2' (0.6m) PAVED SHOULDER. USE THE APRON FOR FIELD ENTRANCES BEHIND CURB AND GUTTER IF A BITUMINOUS SHOULDER BEHIND THE CURB AND GUTTER DOES NOT EXIST.

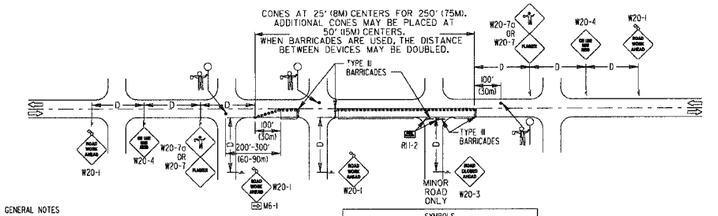
SCALE: 1" = 10'

REVISIONS	DATE
DUAL DIMENSIONS	03/08/02
DEL TY A (SPEC)	04/25/02

LakeCounty Division of Transportation — APPROVED BY: C. N. WIESNER DATE: NOV. 16, 1999

BITUMINOUS APRON FOR AGGREGATE FIELD ENTRANCE (SPECIAL)

LC1010



GENERAL NOTES

1. All warning signs shall have minimum dimensions of 48"x48" (1.2M x 1.2M). The engineer may approve signs measuring 36"x36" (900MM x 900MM) when the posted speed limit is 30 mph (50km/h) or less.

2. All signs not on the traveled way shall be post mounted if the closure time exceeds four calendar days. All signs shall be posted with the bottom of the sign not less than 7' (2.1M) above the edge of pavement. "NO PARKING" signs shall be installed throughout the work area at the discretion of the engineer.

3. The flagger shall be in sight of each other or in direct communication at all times. When no work is being performed, the flaggers will not be required. If the flaggers are not present, the flagger sign shall be removed, covered or turned away from traffic.

4. Barricades with Type C steady burning lights shall be used in lieu of cones for night operation. All cones and barricades shall be in accordance with Standard 702001.

5. When necessary, additional flaggers shall be positioned so as to regulate side street traffic.

6. Construction operations shall be confined to one lane, leaving the opposite lane open to traffic.

7. If the work operation is performed between 9:00 am and 3:00 pm and the work does not exceed 15 minutes, the traffic protection shall be as shown for Standard 703OL Signs, when required, shall be at the spacing specified in the Advance Warning Sign Spacing Table.

8. If the work area is in the parking lane and the parking exists during work hours, a "ROAD WORK AHEAD" sign shall be installed in advance of the work area at the spacing specified in the Advance Warning Sign Spacing Table and the area protected with cones or barricades.

ADVANCE WARNING SIGN SPACING TABLE	DISTANCE BETWEEN SIGNS	ADVANCE WARNING SIGN SPACING TABLE - METRIC	DISTANCE BETWEEN SIGNS
POSTED SPEED	(D)	POSTED SPEED	(D)
40 MPH OR LESS	200'	60 km/h OR LESS	60m
45-50 MPH	350'	70-80 km/h	105m
55 MPH	500'	90 km/h	150m

9. Type A flashing lights shall be used on each approach in advance of the work area during hours of darkness and installed above the first two signs in each series and the high level warning devices.

10. Longitudinal dimensions may be adjusted to fit field conditions.

11. The location of the construction warning signs shall be determined by the speed limit posted on the road or street on which the construction warning signs are installed.

12. Form BT 725 is required.

NOT TO SCALE

REVISIONS	DATE
REMOVED FLAGS-JPS	3/10/97
SPACING REV.-JPS	1/25/98
TYPE III BARRICADES-JPS	12/7/98
REVISED DIST. CHART ADDED STAND. NO.-JPS	3/10/99
SCALE, FONT, SIZE-GNR	12/16/99
DUAL DIMENSIONS	03/29/02

LakeCounty Division of Transportation — APPROVED BY: ANTHONY KHAWAJA DATE: DEC 14, 1998

MODIFIED STANDARD 701501-02

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE AND UTILITY OPERATIONS
TWO LANE, TWO WAY, UNDIVIDED LANE CLOSURE
ONE DAY OR MORE OPERATIONS
WHERE, AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE PAVEMENT DURING SHOULDER OPERATIONS, OR WHERE CONSTRUCTION REQUIRES LANE CLOSURES.

LC7002

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS

SCALE: VERT. N.T.S. HORIZ. N.T.S.
DATE

DRAWN BY AJP
CHECKED BY CRF

DET-1-1.dgn 12/30/2004 2:52:50 PM