SPS-

BRAUN[SM]
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Engineers and Scientists Serving the Built and Natural Environments®

Memorandum

Date: June 23, 1995

To: Monte Symons

From: Ann Johnson, Ron Urbach

Re: Materials Sampling and Testing Plans for Nebraska SPS-1 and 9A Projects

Attached are sampling and testing plans for the Nebraska SPS-1 and 9A projects. In our haste to get these to the Nebraska Department of Roads, we forgot to forward a copy to you. We apologize for any inconvenience this may have caused. Please call if you have any questions.

Encl:

cc: Gene Skok, Braun Intertec (w/o Encl:)
Dick Ingberg, FHWA (w/o Encl:)
John Miller, PCS Law

NE SPS-9A

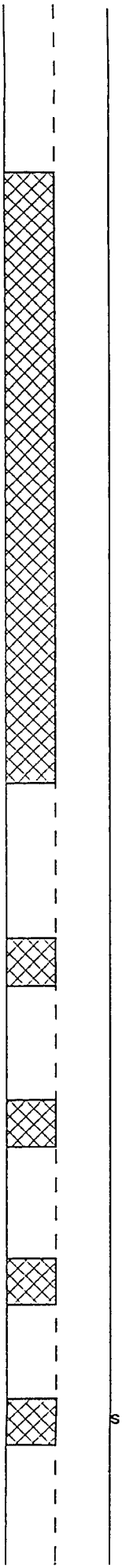
SPS-9
THAYER COUNTY, NE
US-81 SOUTHBOUND

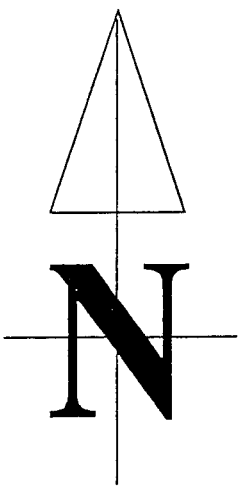
UPDATED 06/7/95

SPS-1 SECTIONS

10489+00-408+50

(EQUATION: 10428+18.11 BK = 430+10.43 AH)





310901
STATE CONTROL
7" AC, 12" GB
402+50-407+50

310904
SMA
7" AC, 12" GB
396+15-401+15

310902
SUPERPAVE
7" AC, 12" GB
388+80-393+80

310903
SUPERPAVE+2 GRADES
7" AC, 12" GB
381+25-386+25

NOT TO SCALE

S:\LTPP\HG\SPS\SPS9_NE

Nebraska SPS-1 and SPS-9
Thayer County
US-81 Southbound

LTPP SEC #	Length of Area	Start of Area	Start of Section	End of Section	End of Area
310124	673	10490+26	10489+00	10484+00	10483+53
310123	856	10483+53	10480+00	10475+50	10474+97
310114	600	10474+97	10474+50	10469+50	10468+97
310119	600	10468+97	10468+50	10463+50	10462+97
310117	672	10462+97	10462+50	10457+50	10456+25
310115	678	10456+25	10455+00	10450+00	10449+47
310121	597	10449+47	10449+00	10444+00	10443+50
310120	814	10443+50	10443+00	10438+00	10435+36
310118	928	10435+36	10434+50	10429+50	* 428+00
310116	700	428+00	427+00	422+00	421+00
310122	625	421+00	420+50	415+50	414+75
310113	675	414+75	413+50	408+50	408+00
310901	600	408+00	407+50	402+50	402+00
310904	675	402+00	401+15	396+15	395+25
310902	790	395+25	393+80	388+80	387+35
310903	720	387+35	386+25	381+25	380+15

* Equation: 430+10.43 Back = 10428+18.11 Ahead

Updated 6/9/95

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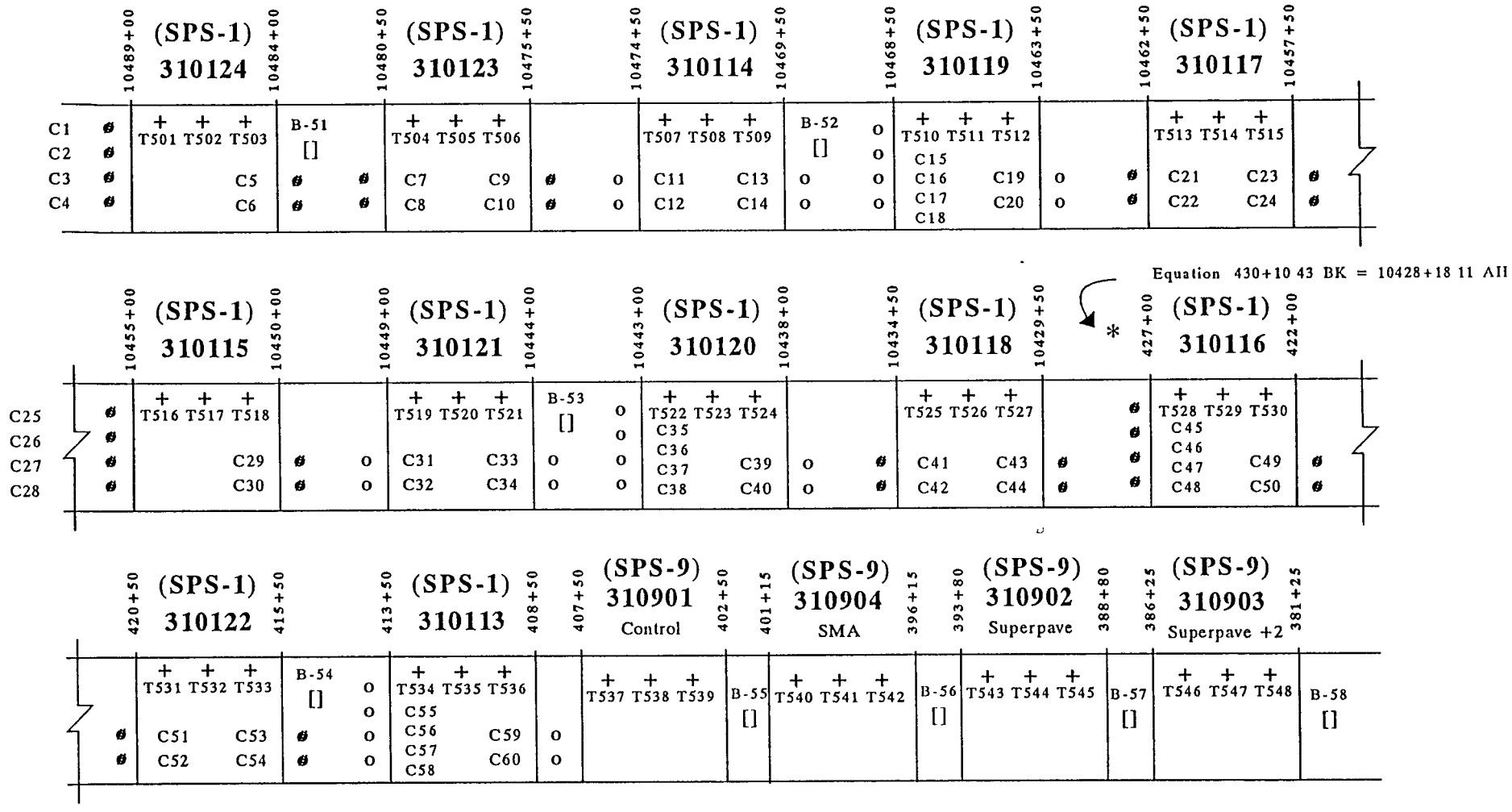

Traffic Direction

[] Location of bulk sampling of asphaltic concrete mix (45kg, 100lb)
102 mm (4") OD core of asphalt concrete surface (see attached)
102 mm (4") OD core of asphalt concrete surface and treated base (see attached)
\+ Location of field nuclear density testing within section

Updated 06/12/95

Sampling and Testing Locations for AC Surface and Treated Base.
SPS-1&9, US-81 Southbound Lane

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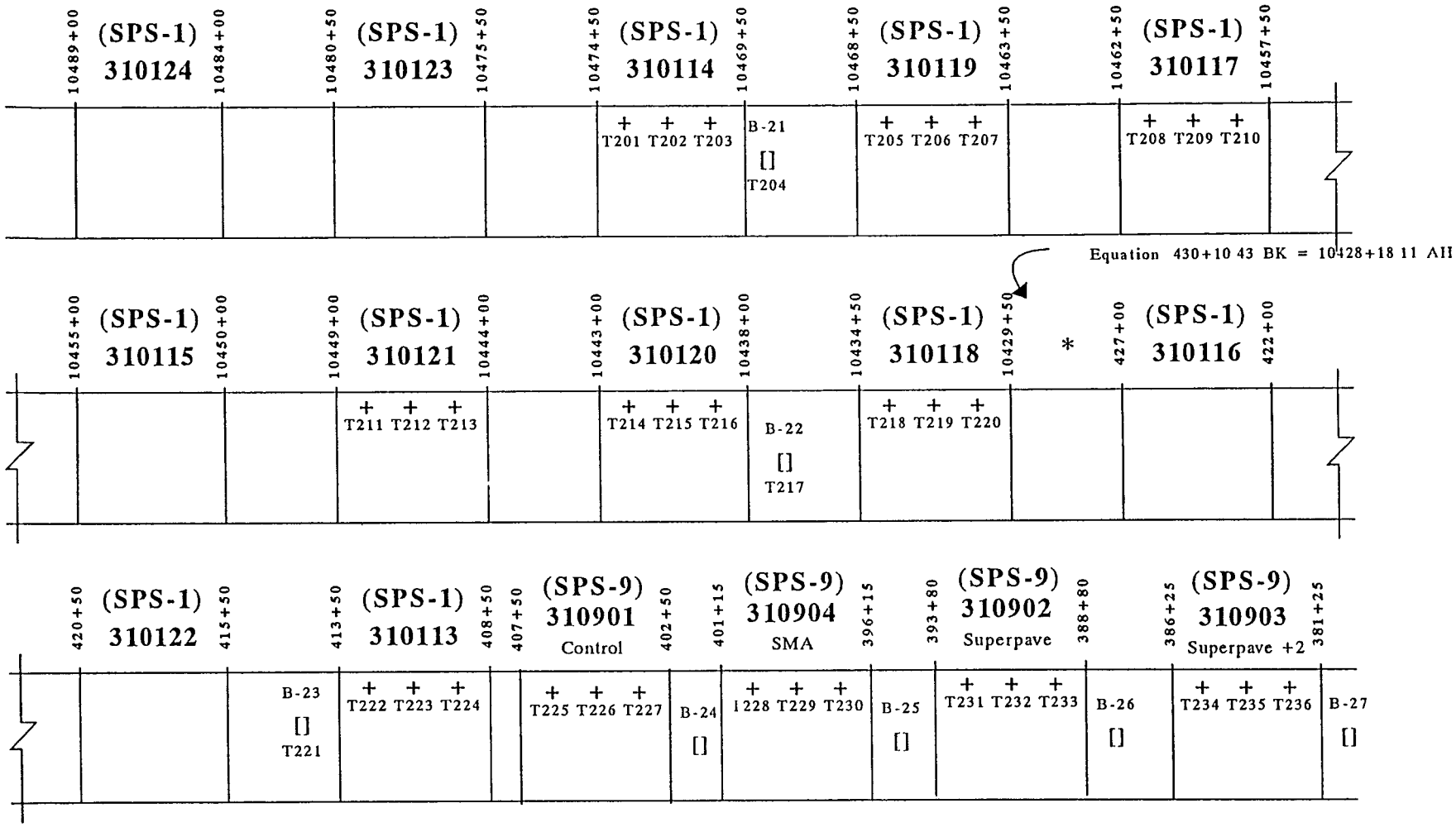

Traffic Direction

[] **Bulk sampling location**

\+ **Location of field nuclear testing**

Updated 06/12/95

Sampling and Testing Locations for DGAB
SPS-1&9, US-81 Southbound Lane

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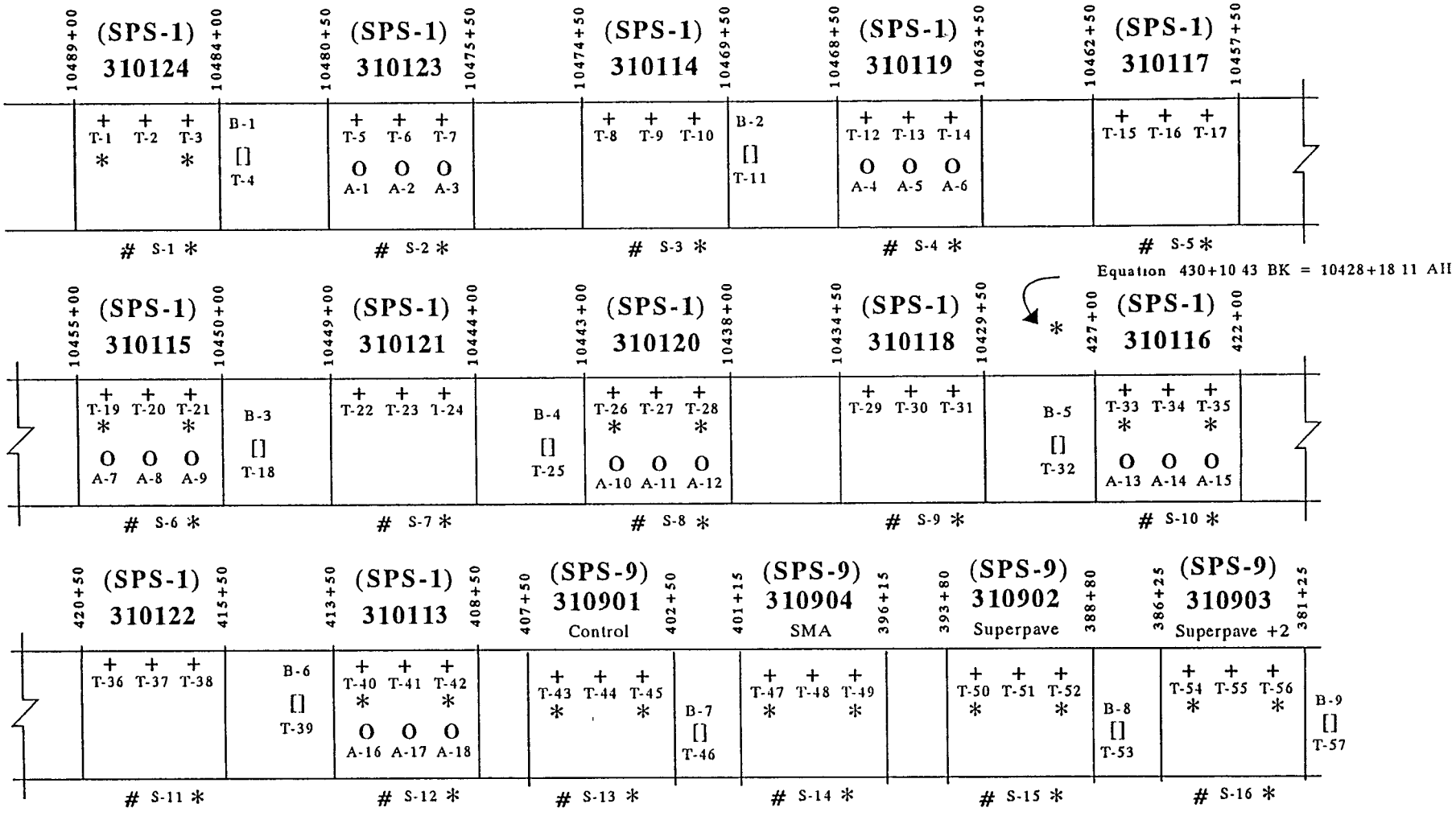

* Optional Testing

Traffic Direction

[] Bulk sampling location to 12" below top of subgrade
O Thinwall tube/splitspoon sampling to 1.2m (4') below top of subgrade
\# Shoulder Probe
\+ Location of field nuclear testing

Updated 06/09/95

Sampling and Testing Locations for Subgrade (embankment layer >1.2m (4')

SPS-1&9, US81 Southbound Lane

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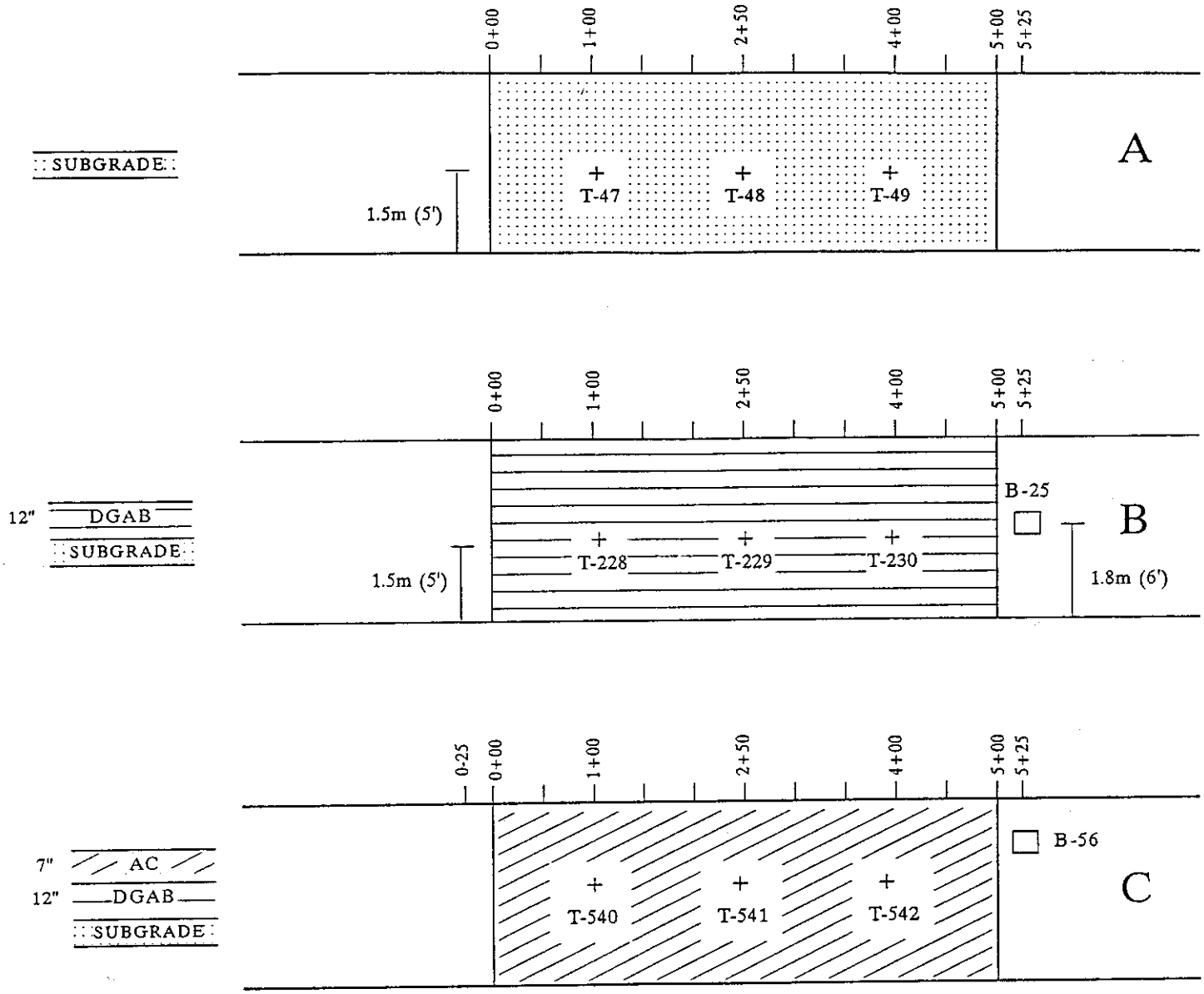

A. Nuclear Density Testing on Subgrade (T-47 to T-49)

B. Nuclear Density Testing on DGAB (T-228 to T-230)

Bulk Sampling of DGAB (B-25)

C. Nuclear Density Testing on AC Surface (T-540 to T-542)

Bulk Sampling of AC (45kg, 100lb), (B-56)

SEE ATTACHED FOR ASPHALT CONCRETE SURFACE CORES (C-108 to C-113)

Updated 06/12/95

Sampling and Testing Locations for Section 310904 (All Layers)
SPS-1, US-81 Southbound Lane

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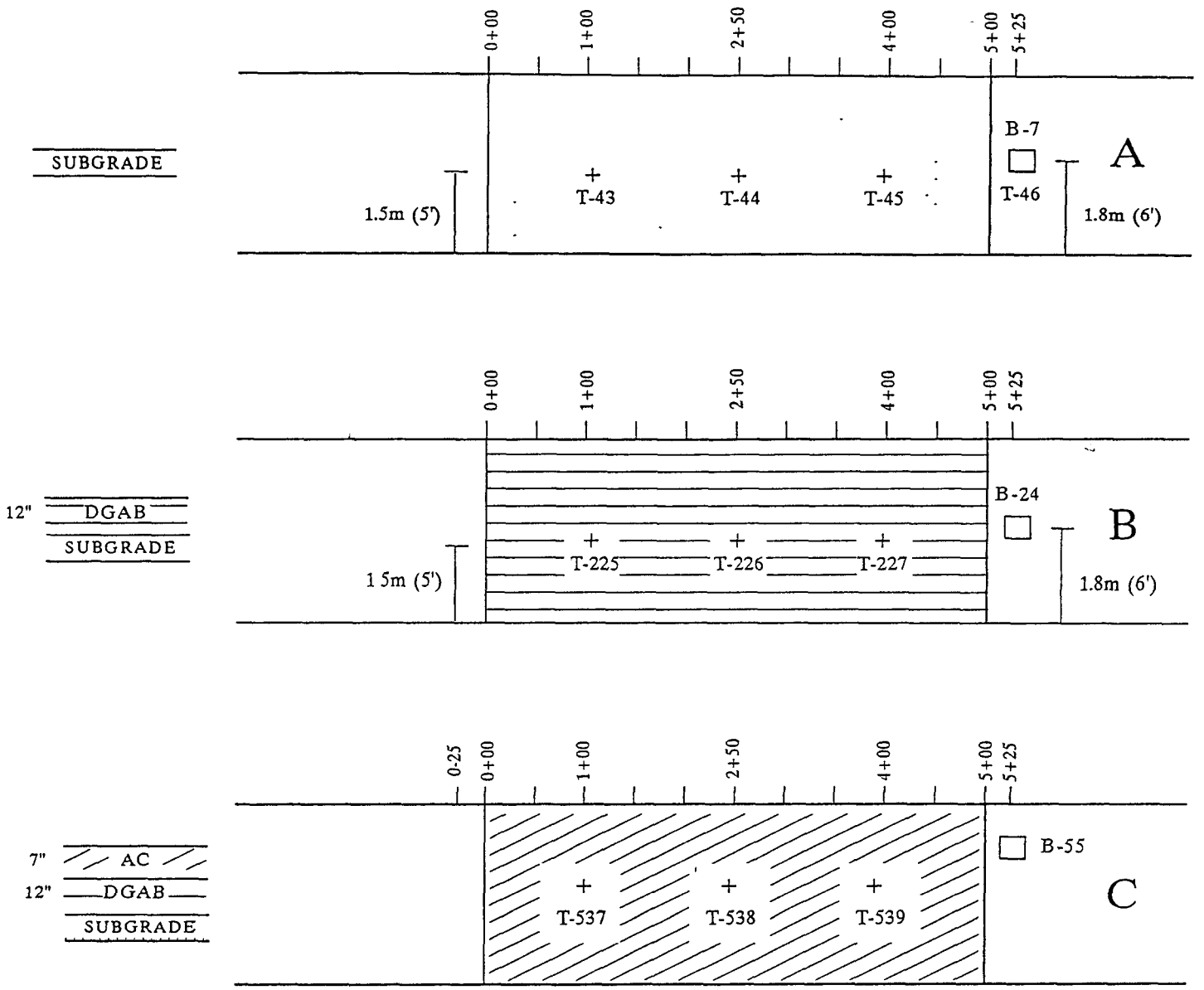

A. Nuclear Density Testing on Subgrade (T-43 to T-46)

Bulk Sampling Location to 12" Below Top of Subgrade (B-7)

B. Nuclear Density Testing on DGAB (T-225 to T-227)

Bulk Sampling of DGAB (B-24)

C. Nuclear Density Testing on AC Surface (T-537 to T-539)

Bulk Sampling of AC (45kg, 100lb), (B-55)

SEE ATTACHED FOR ASPHALT CONCRETE SURFACE CORES (C-100 to C-107)

Updated 06/12/95

Sampling and Testing Locations for Section 310901 (All Layers)
SPS-1, US-81 Southbound Lane

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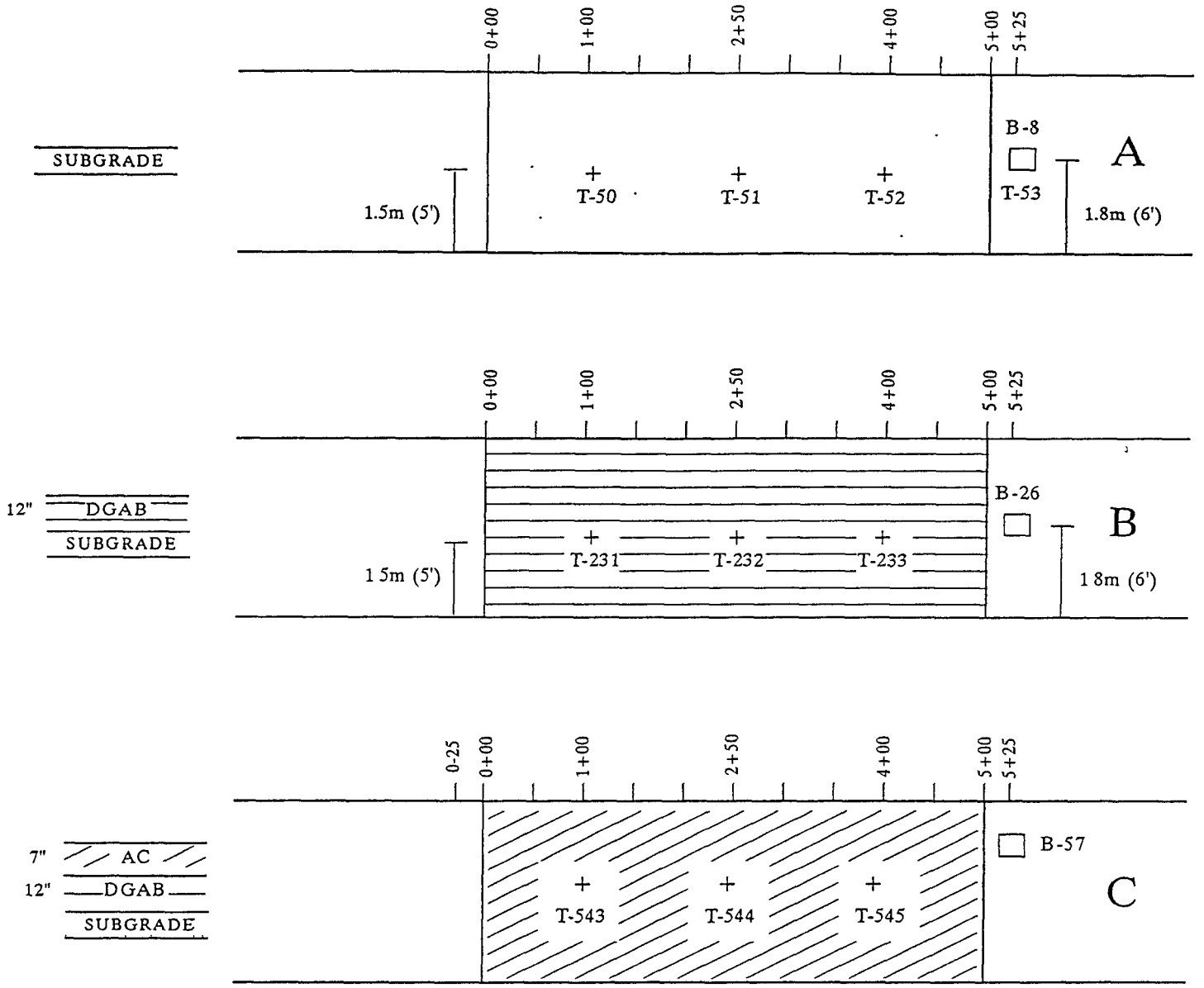

A. Nuclear Density Testing on Subgrade (T-50 to T-53)

Bulk Sampling Location to 12" Below Top of Subgrade (B-8)

B. Nuclear Density Testing on DGAB (T-231 to T-233)

Bulk Sampling of DGAB (B-26)

C. Nuclear Density Testing on AC Surface (T-543 to T-545)

Bulk Sampling of AC (45kg, 100lb), (B-57)

SEE ATTACHED FOR ASPHALT CONCRETE SURFACE CORES (C-114 to C-147)

Updated 06/12/95

Sampling and Testing Locations for Section 310902 (All Layers)

SPS-1, US-81 Southbound Lane

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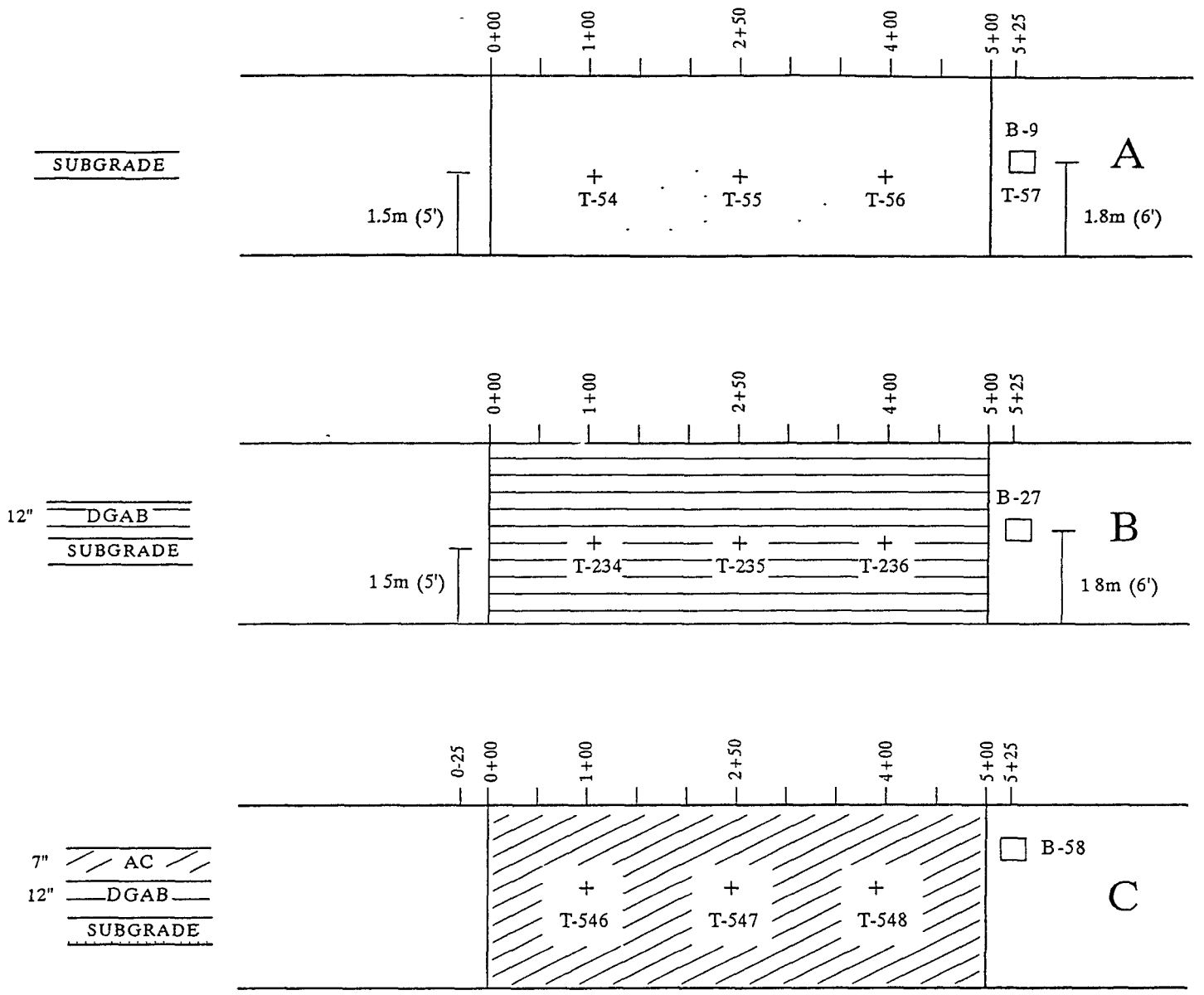

A. Nuclear Density Testing on Subgrade (T-54 to T-57)

Bulk Sampling Location to 12" Below Top of Subgrade (B-9)

B. Nuclear Density Testing on DGAB (T-234 to T-236)

Bulk Sampling of DGAB (B-27)

C. Nuclear Density Testing on AC Surface (T-546 to T-548)

Bulk Sampling of AC (45kg, 100lb), (B-58)

SEE ATTACHED FOR ASPHALT CONCRETE SURFACE CORES (C-148 to C-155)

Updated 06/12/95

Sampling and Testing Locations for Section 310903 (All Layers)

SPS-1, US-81 Southbound Lane

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