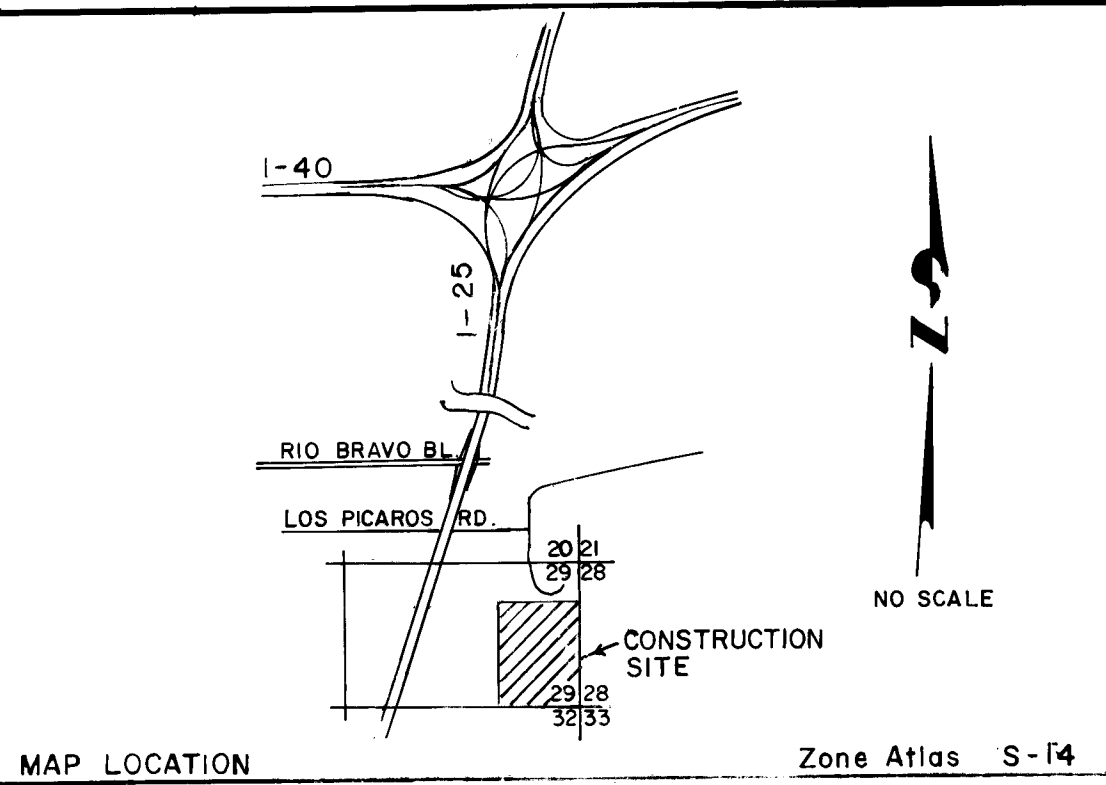
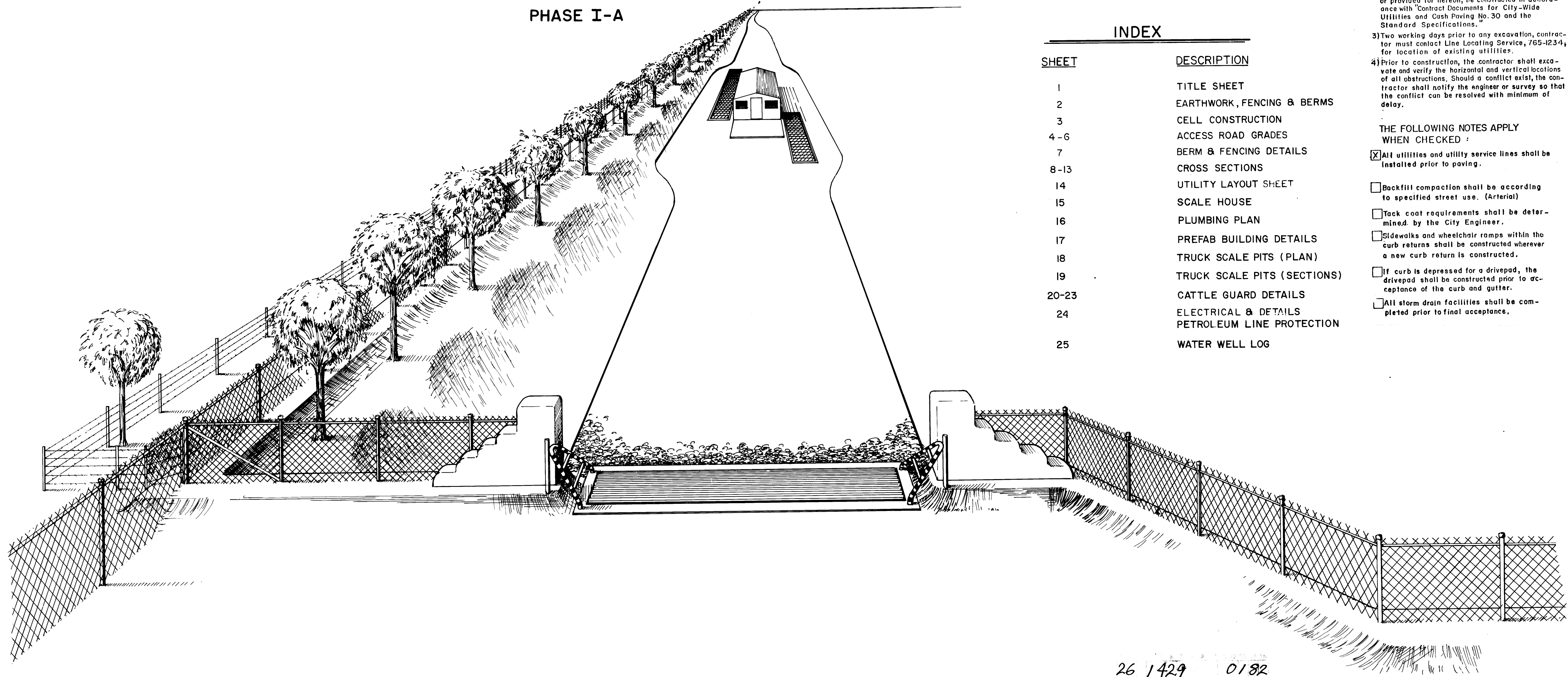


CITY OF ALBUQUERQUE SOUTH BROADWAY LANDFILL

PHASE I-A



NOTICE TO CONTRACTORS

- 1) New Mexico Standard Specifications for Public Works Construction - 1979 Edition will be referred to hereon as the "Standard Specifications."
- 2) All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided for hereon, be constructed in accordance with "Contract Documents for City-Wide Utilities and Cash Paving No. 30 and the Standard Specifications."
- 3) Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
- 4) Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer or survey so that the conflict can be resolved with minimum of delay.

THE FOLLOWING NOTES APPLY WHEN CHECKED:

- ☒ All utilities and utility service lines shall be installed prior to paving.
- ☐ Backfill compaction shall be according to specified street use. (Arterial)
- ☐ Tack coat requirements shall be determined by the City Engineer.
- ☐ Sidewalks and wheelchair ramps within the curb returns shall be constructed wherever a new curb return is constructed.
- ☐ If curb is depressed for a driveway, the driveway shall be constructed prior to acceptance of the curb and gutter.
- ☐ All storm drain facilities shall be completed prior to final acceptance.

INDEX	
SHEET	DESCRIPTION
1	TITLE SHEET
2	EARTHWORK, FENCING & BERMS
3	CELL CONSTRUCTION
4-6	ACCESS ROAD GRADES
7	BERM & FENCING DETAILS
8-13	CROSS SECTIONS
14	UTILITY LAYOUT SHEET
15	SCALE HOUSE
16	PLUMBING PLAN
17	PREFAB BUILDING DETAILS
18	TRUCK SCALE PITS (PLAN)
19	TRUCK SCALE PITS (SECTIONS)
20-23	CATTLE GUARD DETAILS
24	ELECTRICAL & DETAILS PETROLEUM LINE PROTECTION
25	WATER WELL LOG

26 1429 0182

ENGINEERS SEAL	CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION	APPROVED FOR CONSTRUCTION	
		CITY ENGINEER	DATE
	DRAWING NO. 1429	SHEET 1	OF 25

E 384,000

E 383,000

E 382,000

E 381,000

E 380,000

SEE SHEET 6 FOR
DETAILS

BARBED WIRE FENCING TO BE BUILT

TOP OF BERM
ELEV. 5313

BASELINE: LINE DUE SOUTH
FROM LINE COMMON TO SECTIONS
20 AND 29, PASSING THROUGH
POINT HV-6

TOP OF BERM ELEV. 5328

TOP OF BERM
ELEV. 5334

N 1,446,000

N 1,445,000

SECTION LINE (PER FIELD VERIFICATION)

12' WIDE BERM ON BOTH SIDES OF
EXISTING PETR. LINE. SEE SHEET 14

PHASE I-A

PHASE I-B

STA. "V"

STA. "U"

STA. "T"

STA. "S"

STA. "R"

STA. "Q"

STA. "P"

STA. "O"

STA. "N"

STA. "M"

STA. "L"

STA. "K"

STA. "J"

STA. "I"

STA. "H"

STA. "G"

STA. "F"

STA. "P"

STA. "O"

STA. "N"

STA. "M"

STA. "L"

STA. "K"

STA. "J"

STA. "I"

STA. "H"

STA. "G"

STA. "F"

STA. "E"

STA. "D"

STA. "C"

STA. "B"

STA. "A"

STA. "Z"

STA. "Y"

STA. "X"

STA. "W"

STA. "V"

SCALE: 1" = 200' (1:2400)
CONTOUR INTERVAL: 5'
DATE OF AERIAL PHOTOGRAPHY
3-10-82

TOPOGRAPHIC BASE MAP
OF
SECTION 29
T9N. R3E.
NEW MEXICO
MARCH, 1982

LEGEND

- ① Intersection point of Q of top of
berms see coordinates below.
- Proposed 6-ft chainlink
fence.
- A SECTION DESIGNATION
SHEET NUMBER

COORDINATES

	Y	X	TOP OF BERM ELEVATIONS	ALT.
①	1,450,245	382,320	5300	
②	1,449,585	381,420	5250	
③	1,445,000	381,420	5250	
④	1,447,600	381,420	5250	5200
⑤	1,447,600	383,630	5334	
⑥	1,450,245	383,630	5311	
⑦	1,449,500	380,760	5200	

PHASE I-A

Fenced Area = 112 Acres
Landfill Finished Surface Area = 90 Acres

Fill (Berms)	1,786,000	CY
Cut	4,024,145	CY
Available for cover, (cell & daily)	2,238,145	CY

Landfill volume after closure 6,560,000 CY
Ratio of solid waste: dirt 80 % : 20 %
(Using 6-FT. Cells)
Fill dirt needed for cover 1,750,000 CY
(Using 25 % shrinkage factor)

Excess dirt shall be stockpiled (at a location
determined by the landfill superintendent)
for future use as closure cover material.

EXISTING CHEVRON PETROLEUM LINE
40' EASEMENT (20' EACH SIDE OF LINE)
50' MIN. DISTANCE BETWEEN EASEMENT LINE
AND TOE OF BERM.

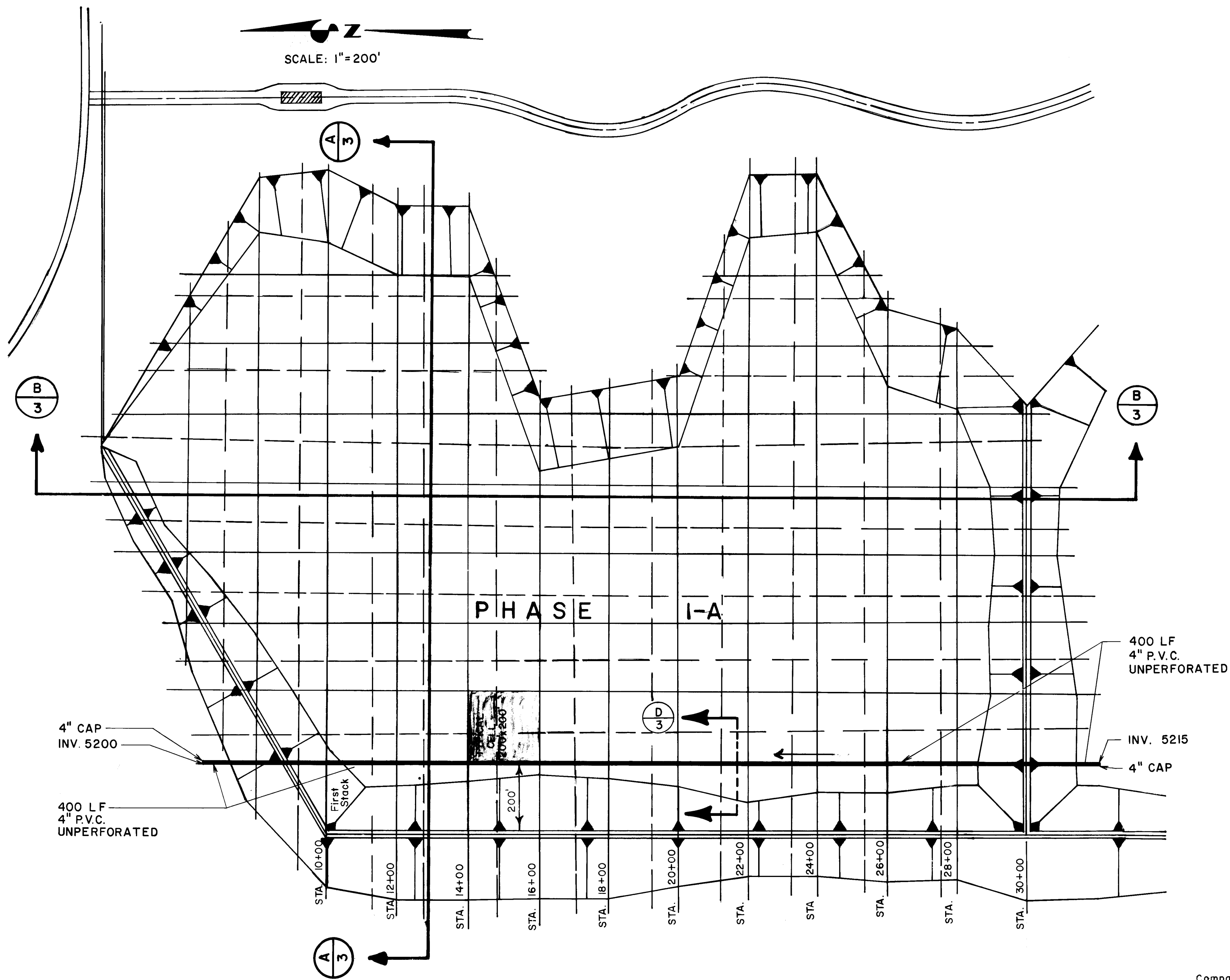
TITLE
South Broadway landfill
earthwork, fencing, & berms

MAP NO.
S-14
DESIGN BY: Celia Tomlinson
DRAWN BY: A.J. Olivas SR.

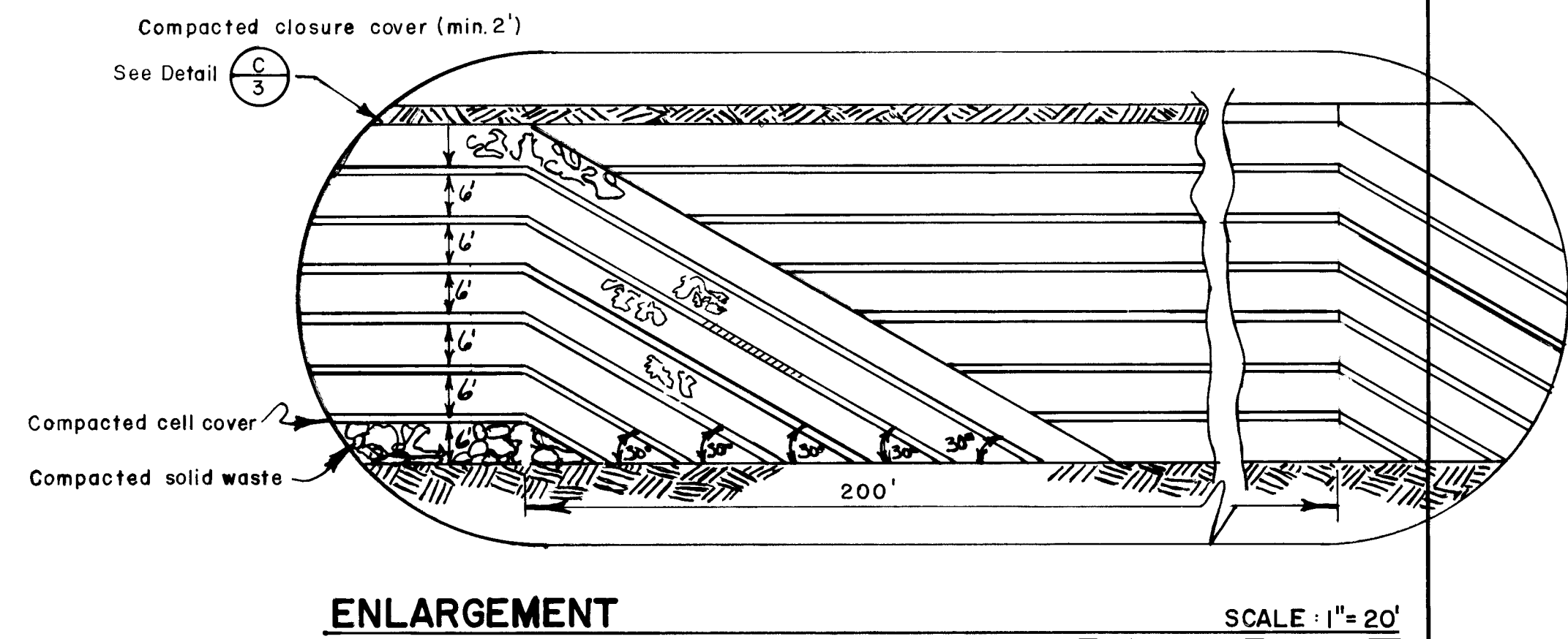
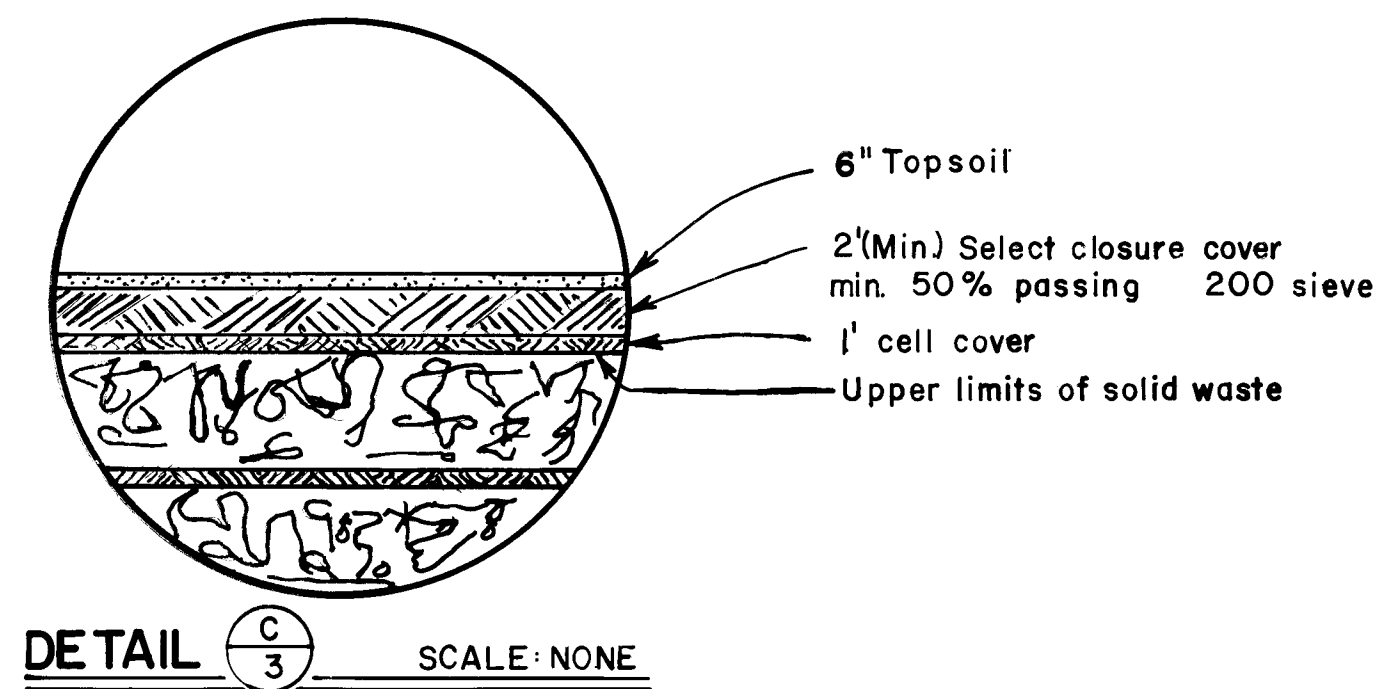
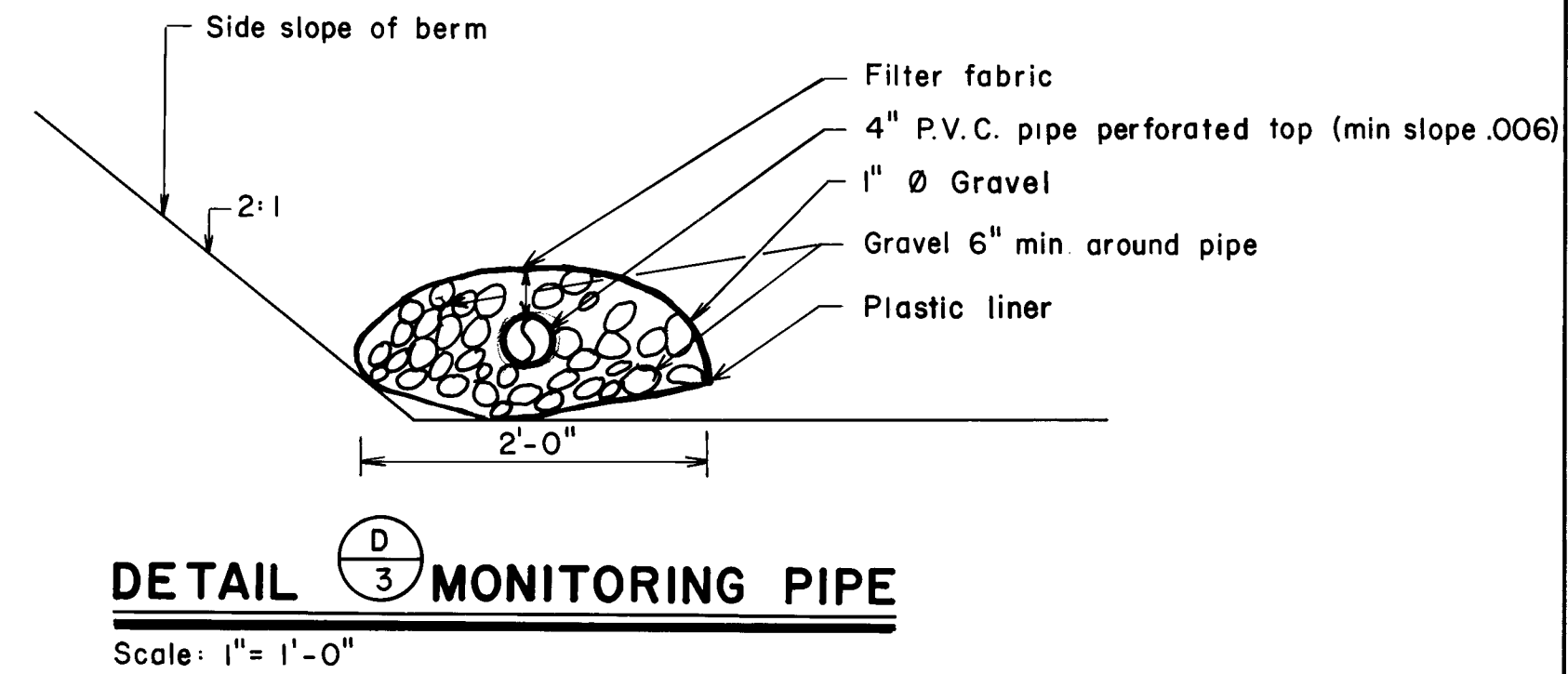
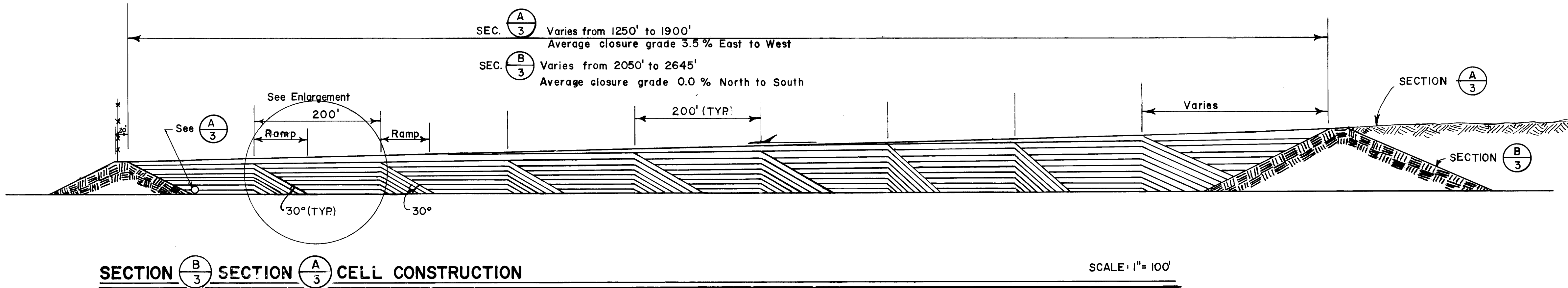
7-26-82

26 1429 11 0282

1429
SHEET 2 OF 25



COMPACTION
Solid waste and cell cover shall be compacted to a minimum of 90% as determined by the Modified Proctor Test.



NOTE:
Section of pipe under berms must not be preforated.

NOTE:
1. Landfill operations shall progress from West to East, southward.
2. Construction of irregularly-shaped cell shall be also utilized 30° ramping regardless of cell height.
3. Minimum 6 inch cover required at end of workday.

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL			REVISIONS		
CONTRACTOR	WORK ORDER NO.	DATE	STAMPED	BY	DATE	NO.	BY	DATE	NO.	DATE	BY	NO.	DATE	BY
NM 47-28 NEW MEXICO STATE HIGHWAY BRASS TABLET	STAMPED NM 47-28, 1969 SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND ON SOUTH BROADWAY	DATE	2.4 MILES SOUTH OF RIO BRAVO	ELEV. = 5013.80	DATE									
DESIGNED BY	VERIFIED BY	DATE	DESIGNED BY	VERIFIED BY	DATE									
HY-6 PHOTOGRAMMETRY'S CONTROL POINT	MARKED NEAR	20/21	ELEV. 5307.92	RECORDED BY	NO.									
		29/28												

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: SOUTH BROADWAY LANDFILL cell construction, closure plan					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		7-26-82	Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. 1429		MAP NO. S-14		SHEET 3 OF 25	

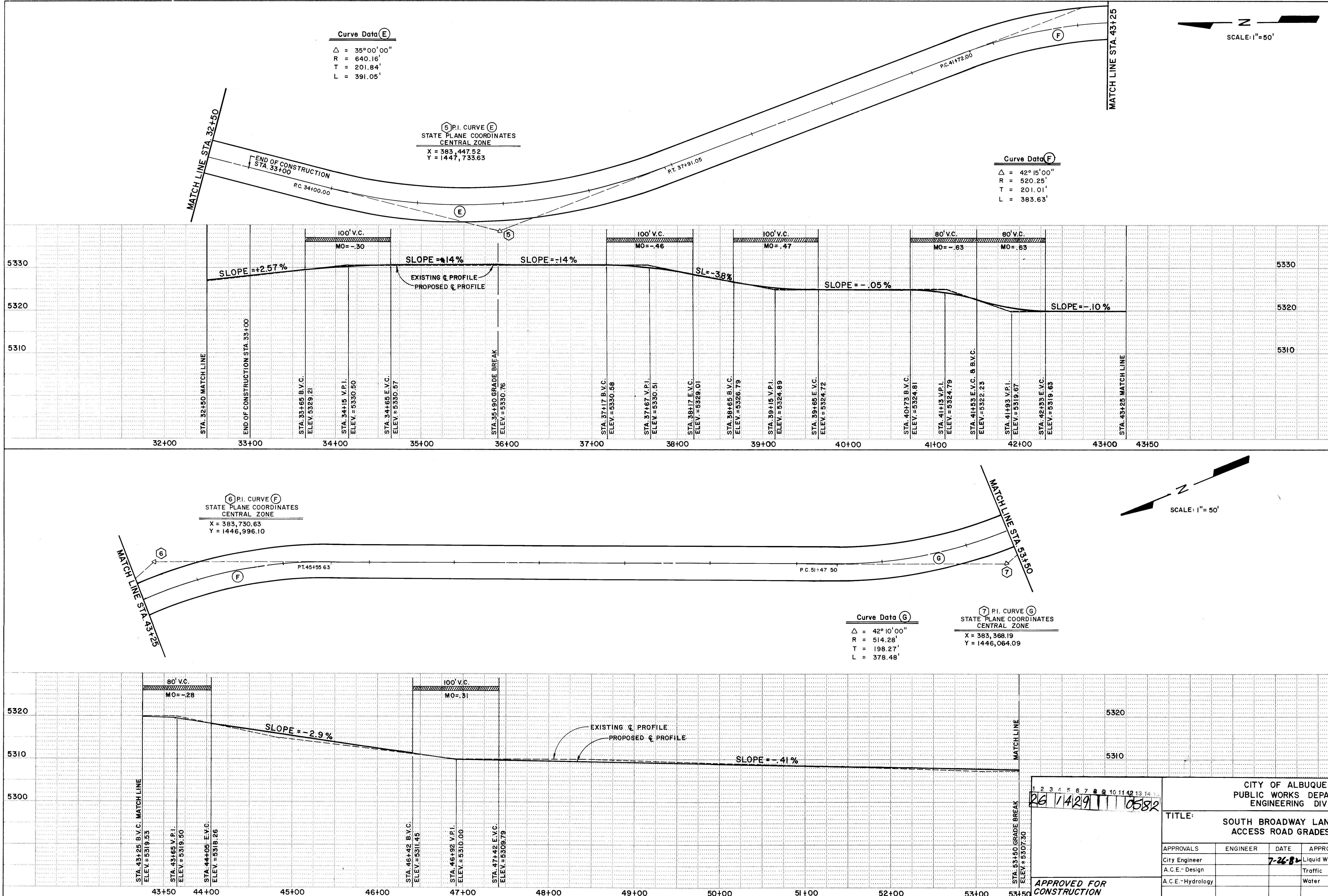
SCALE 1"=600'

LEGEND

- P --- Exist. High Pressure Petroleum Line
- W --- Exit. 3" Waterline



CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: South Broadway landfill utilities plan.					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. Design			Traffic		
A.C.E. Hydrology			Water		
DRAWING NO. 1429		MAP NO. S-14		SHEET OF	



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES		REVISIONS		DESIGN	
CONTRACTOR	WORK	DATE	NO.	BY	DATE	MAP NO.	EST. NO.	NO.	DATE	DESIGNED BY	CHECKED BY
1. NM 47-28 NEW MEXICO STATE HIGHWAY BRASS	TABLET STAMPED "NM 47-28, 1969" SET IN TOP OF A CONCRETE POST FLUSH WITH THE GROUND ON SOUTH BROADWAY 2.4 MILES SOUTH OF RIO BRAVO ELEV. 5013.80									CELIA TOMLINSON	STEVE R. CHAVEZ
2. HV-6 PHOTOGRAMMETRIST'S CONTROL POINT MARKED NEAR										DATE 4-82	DATE 4-82
MICRO-FILM INFORMATION		RECORDED BY		NO.		DATE		SHEET		OF	
		20121		ELEV. 5307.92		29128		5		25	

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0582

APPROVED FOR CONSTRUCTION

CITY ENGINEER

DATE

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION

TITLE:

SOUTH BROADWAY LAND ACCESS ROAD GRADES

APPROVALS

ENGINEER

DATE

APPROVALS

ENGINEER

DATE

City Engineer

7-26-82

Liquid Waste

A.C.E. - Design

Traffic

A.C.E. - Hydrology

Water

DRAWING NO.

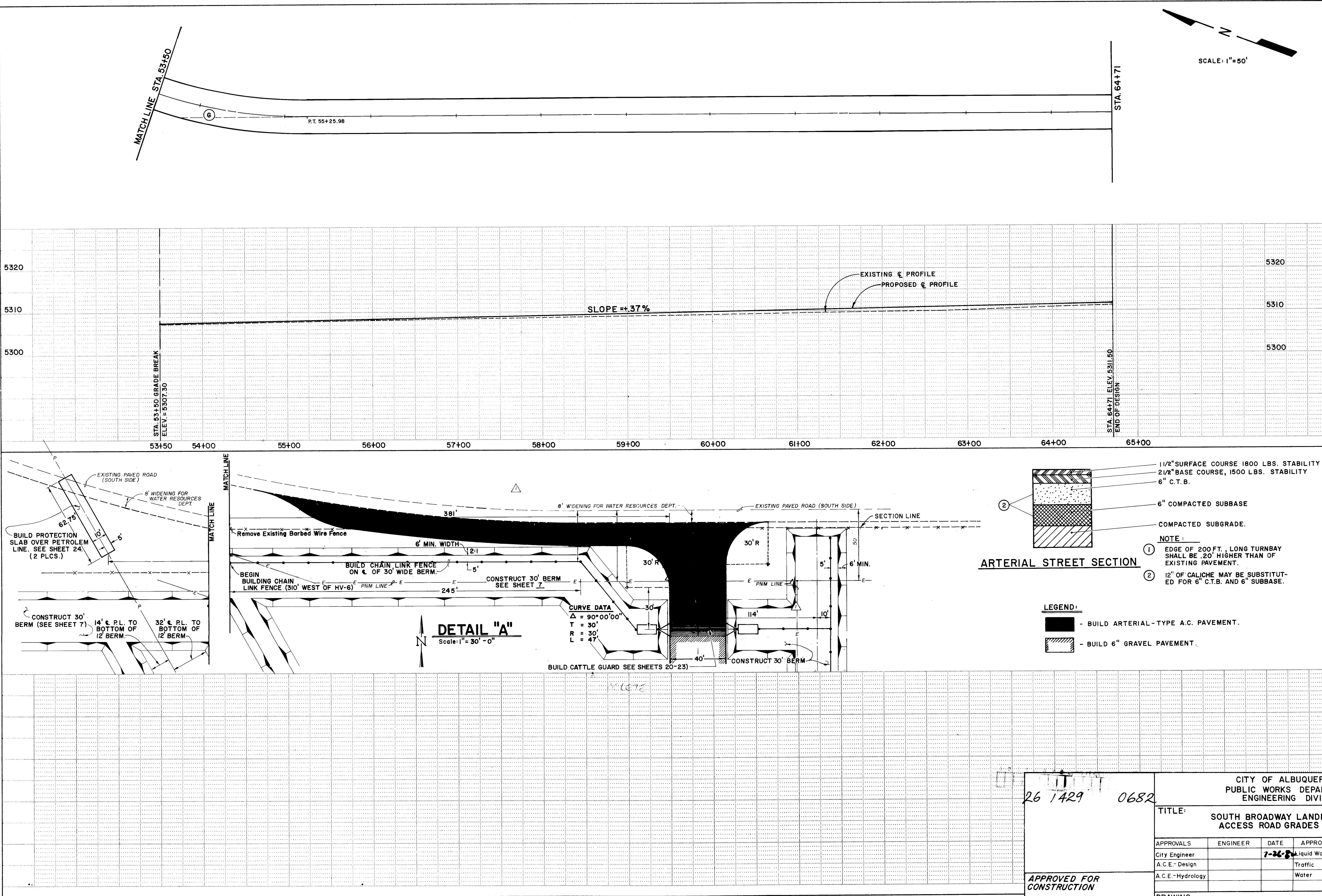
1429

SHEET

5

OF

25



AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			REFERENCES			REVISIONS		
CONTRACTOR	WORK	DATE	CONTRACTOR	MARKS	DATE	NO.	BY	DATE	MAP NO.	EST. NO.	W.O. NO.	NO.	DATE	REMARKS
NEW MEX. STATE HIGHWAY BRASS	TABLET STAMPED "NM 47-28, 1969"	SET	1.	NM 47-28	NEW MEX. STATE HIGHWAY BRASS									
INSPECTED BY	FIELD ACCEPTANCE BY	DATE												
THE GROUND ON SOUTH BROADWAY 2.4	DRAWINGS	DATE												
MILES SOUTH OF RIO BRAVO ELEV=5013.80	CORRECTED BY	DATE												
HV-6 PHOTOGRAMMETRIST'S CONTROL POINT	RECORDED BY	DATE												
MARKED NEAR	20/21	ELEV. 5307.92												
	29/28													

26 1429 0682

APPROVED FOR CONSTRUCTION
CITY ENGINEER
DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE:
SOUTH BROADWAY LANDFILL
ACCESS ROAD GRADES

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		7-24-82	Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. 1429

SHEET 6 OF 25

NOTES

WASHROOM AND OUTDOOR RECEPTACLES MUST BE ON GFCI GROUND FAULT CIRCUIT INTERRUPTERS GFCI (2)

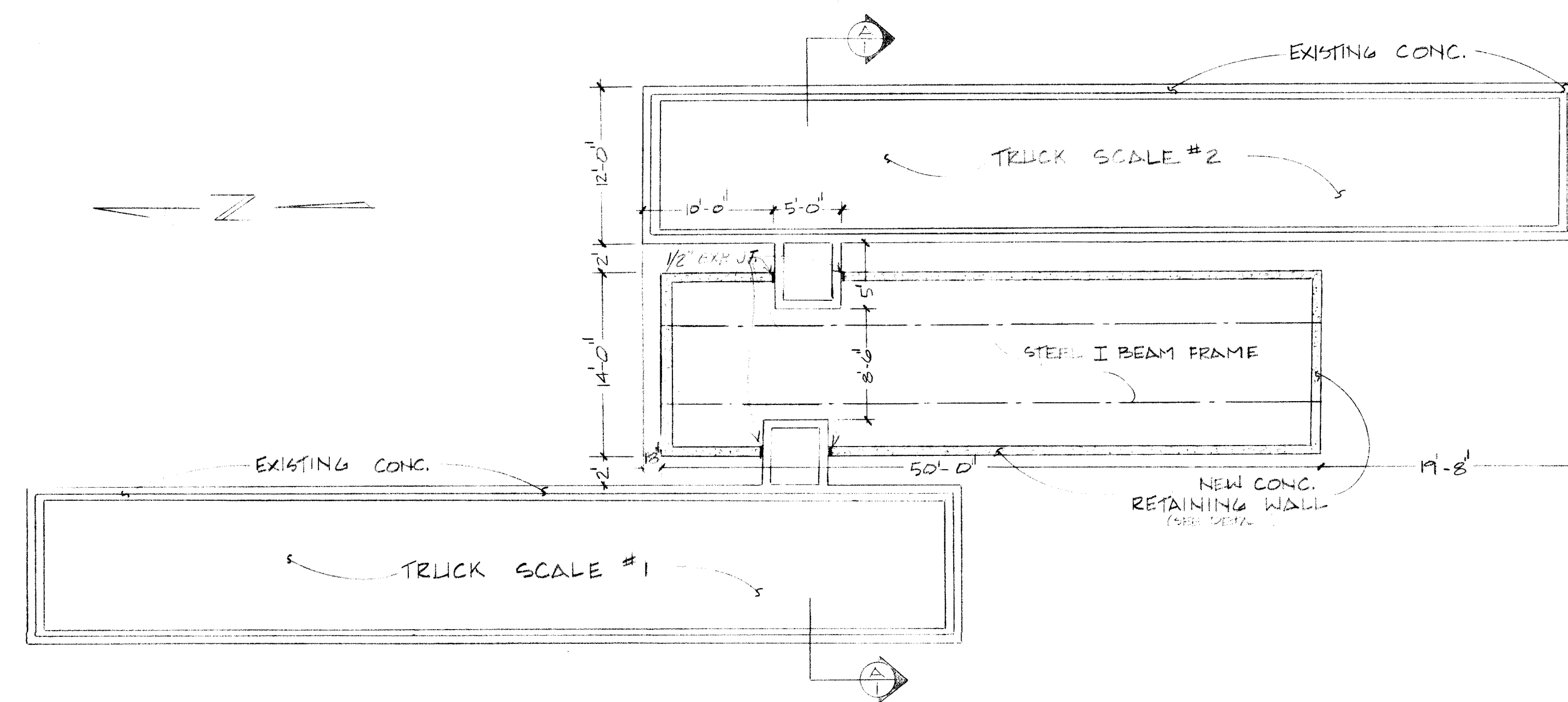
MAIN DISCONNECT MUST MEET AIC (AVAILABLE INTERRUPTING CURRENT) REQUIREMENT

LEGEND

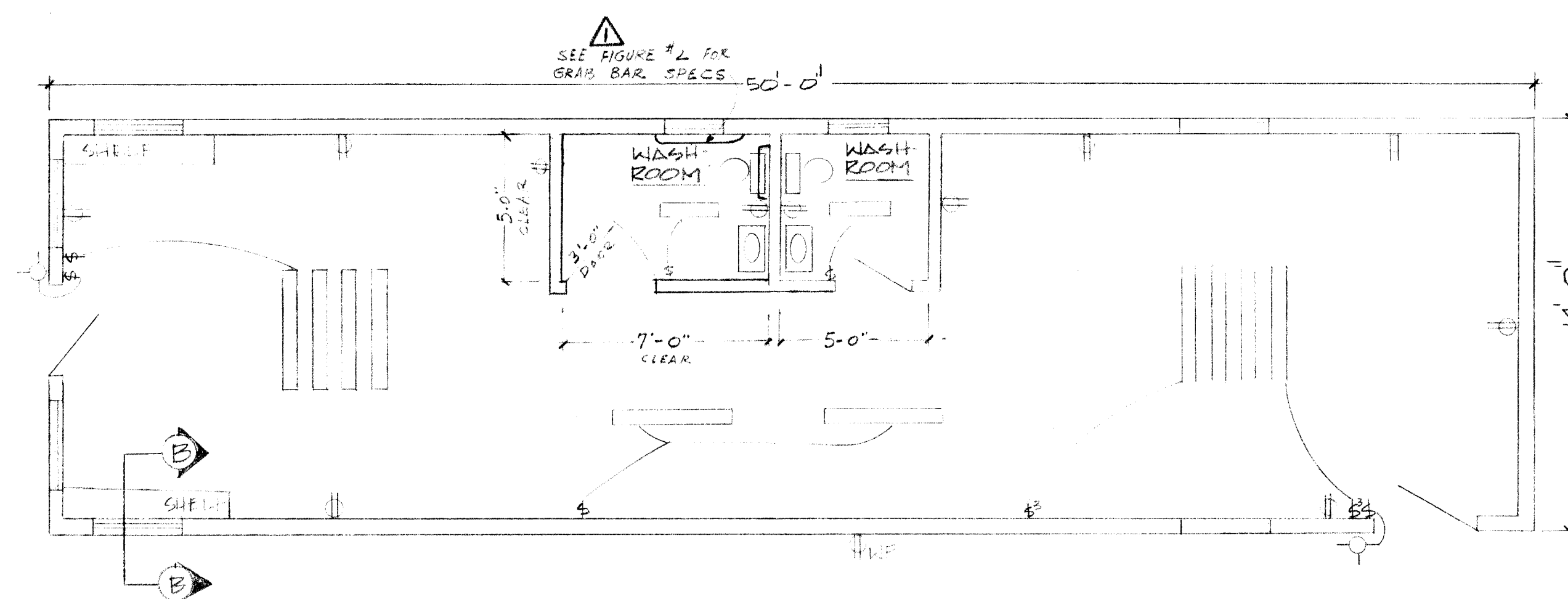
- ⊕ - OUTLET
- \$ - SWITCH
- \$3 - 3 WAY SWITCH
- ⊕_{WP} - OUTDOOR WEATHERPROOF RECEPTACLE FIXTURE.
- ⊙ - OUTDOOR LIGHTING FIXTURE.

ALL ELECTRICAL, PLUMBING, AND HVAC SYSTEMS SHALL BE FACTORY INSTALLED AND SHALL MEET THE BUILDING REQUIREMENTS.

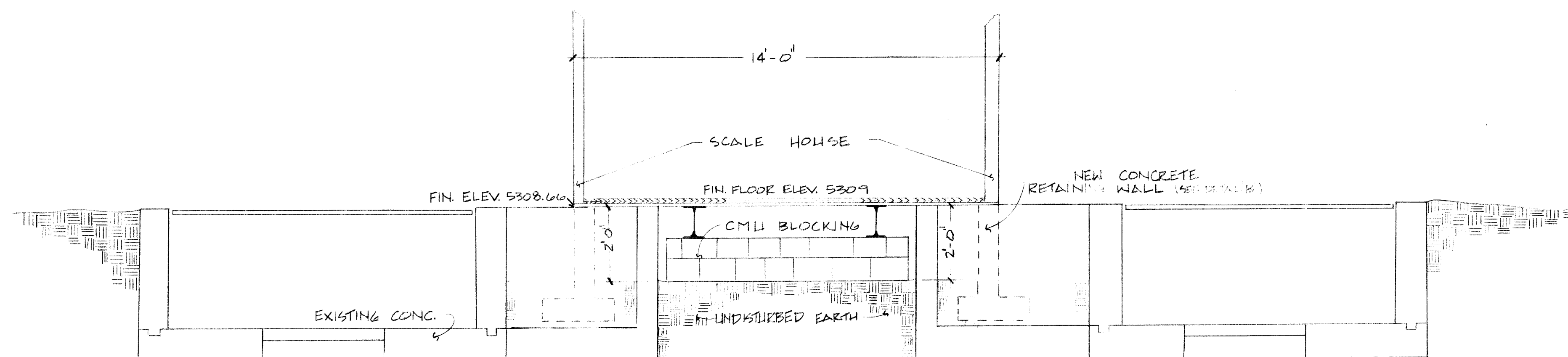
THE BUILDING CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL APPURTENANCES INCLUDING SERVICE CONNECTIONS TO P.N.M. DROP.



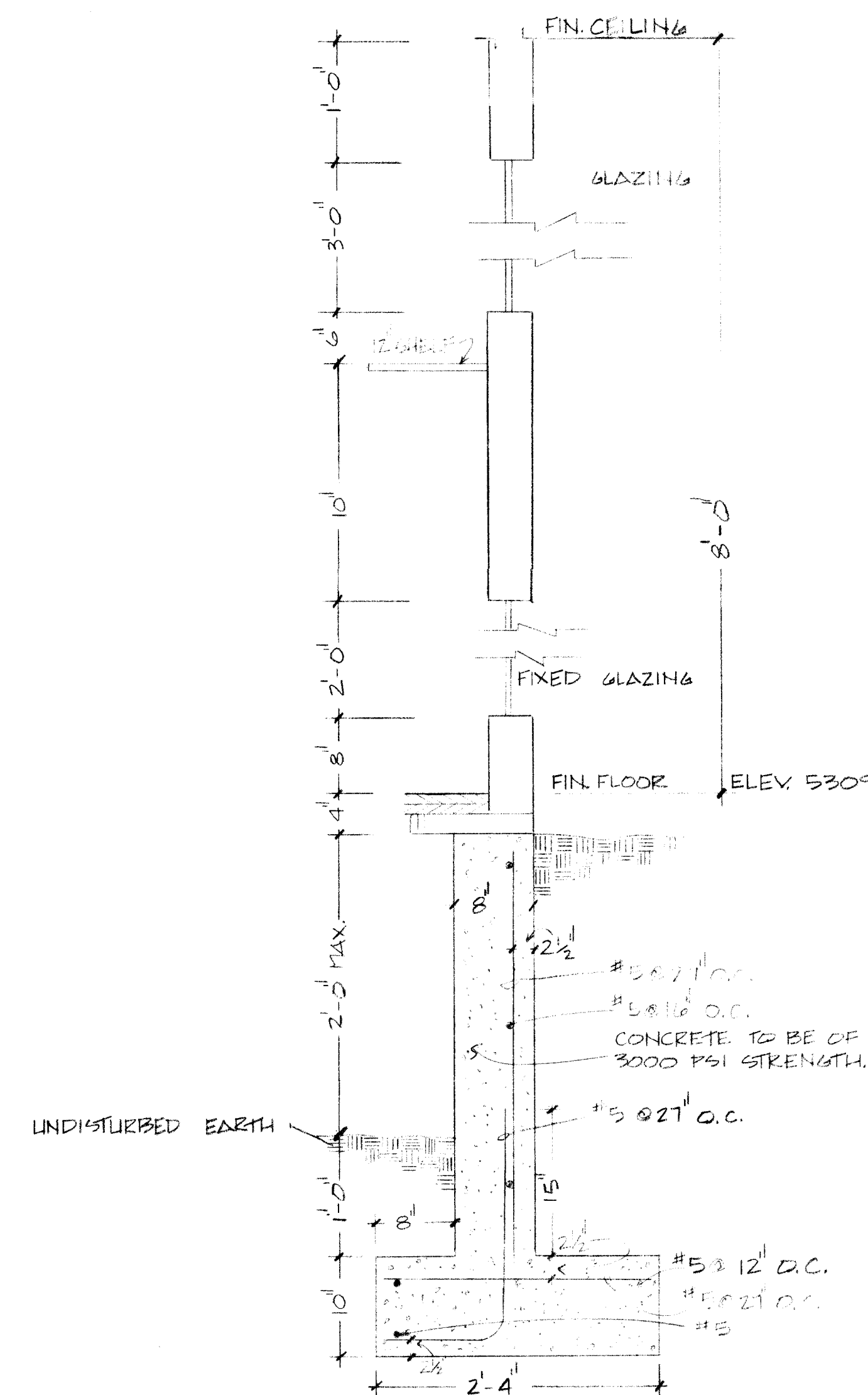
LOCATION PLAN SCALE 1/8" = 1'-0"



DESIRED FLOOR PLAN SCALE 1/4" = 1'-0"



SECTION SCALE 3/8" = 1'-0"



DETAIL B SCALE 1" = 1'-0"

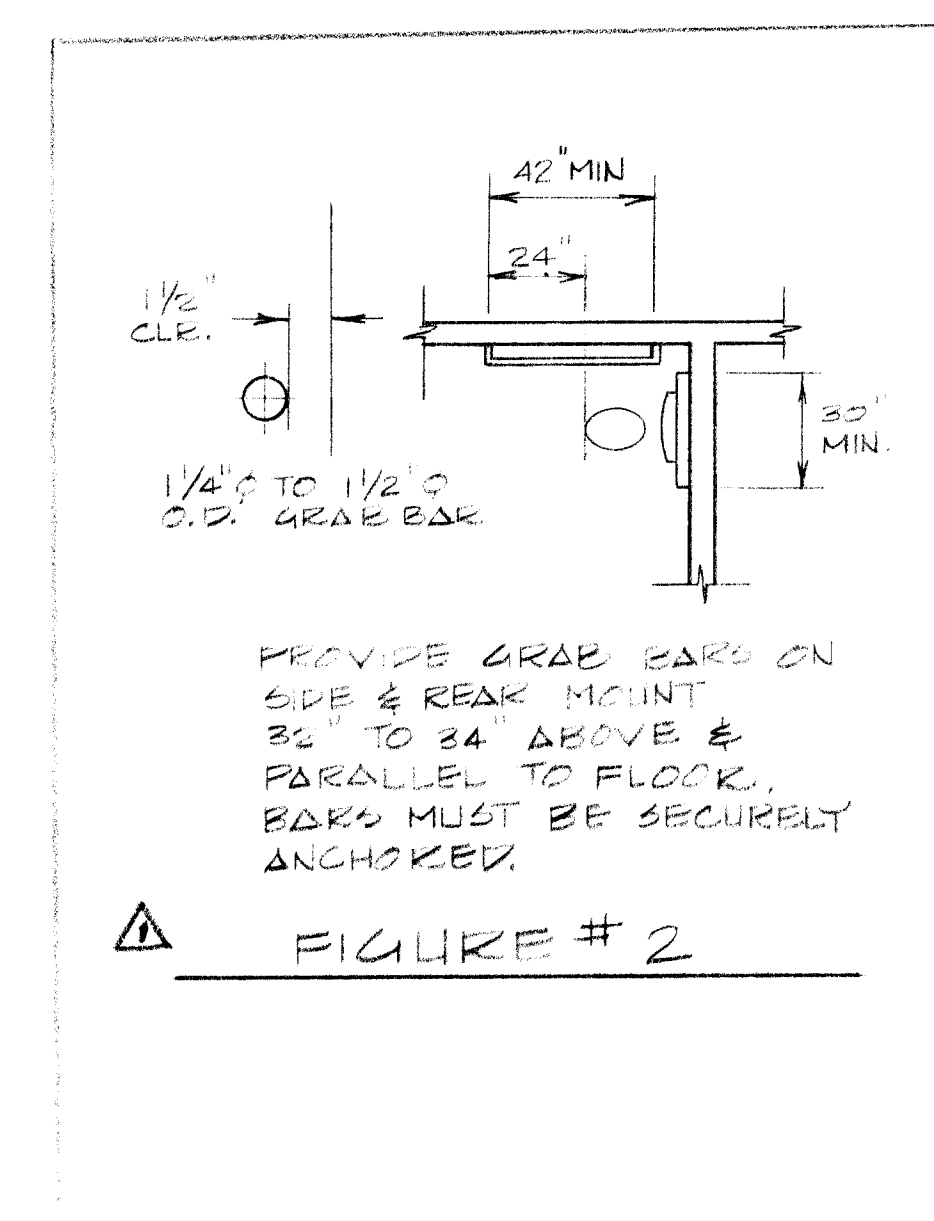
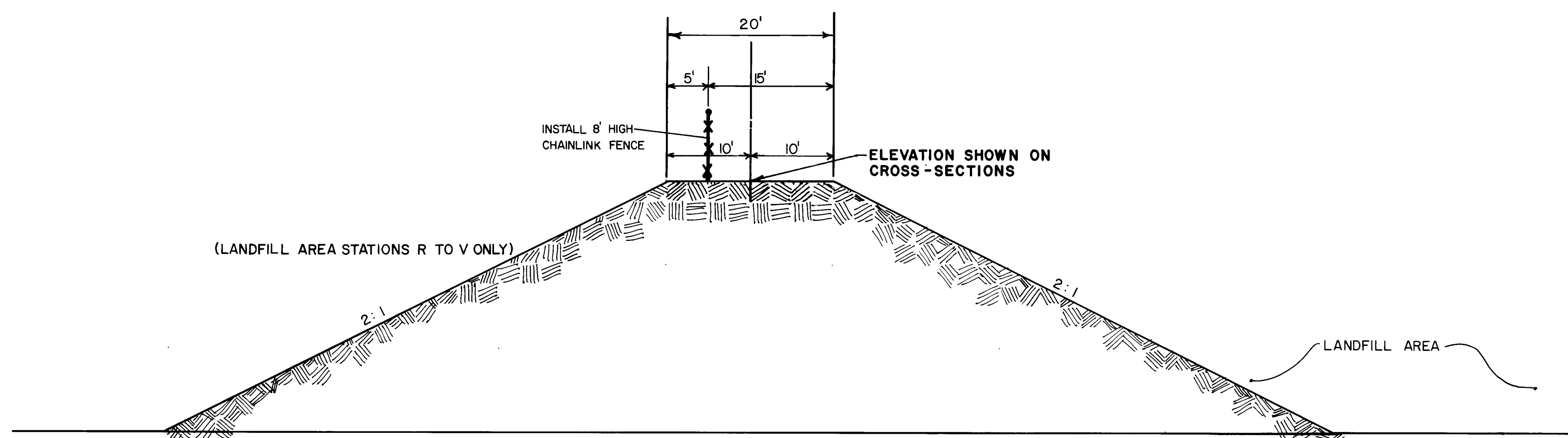


FIGURE #2

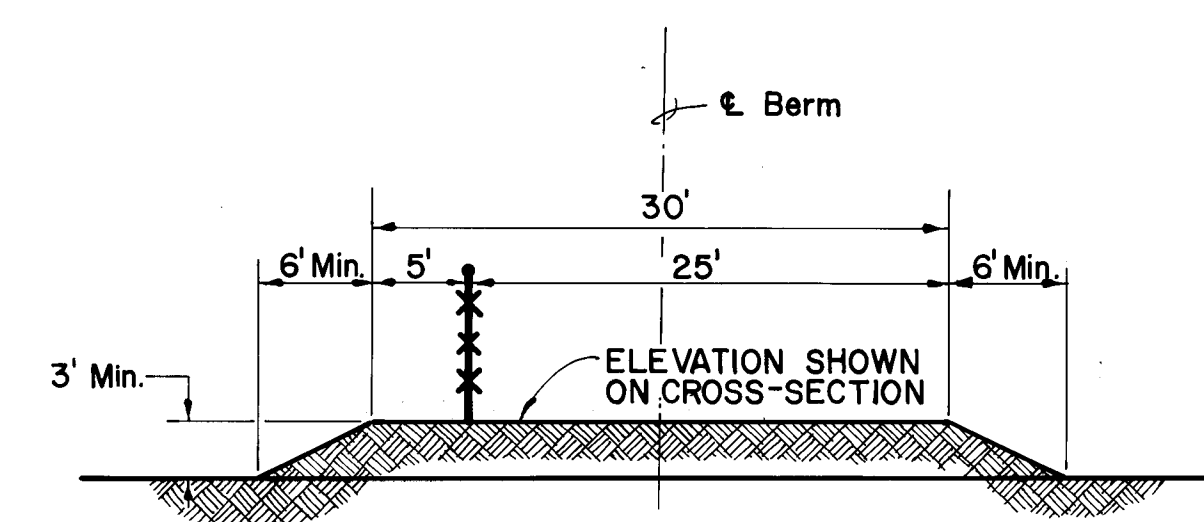
26 1429 01/82

SOUTH BROADWAY LANDFILL SCALE HOUSE DETAILS



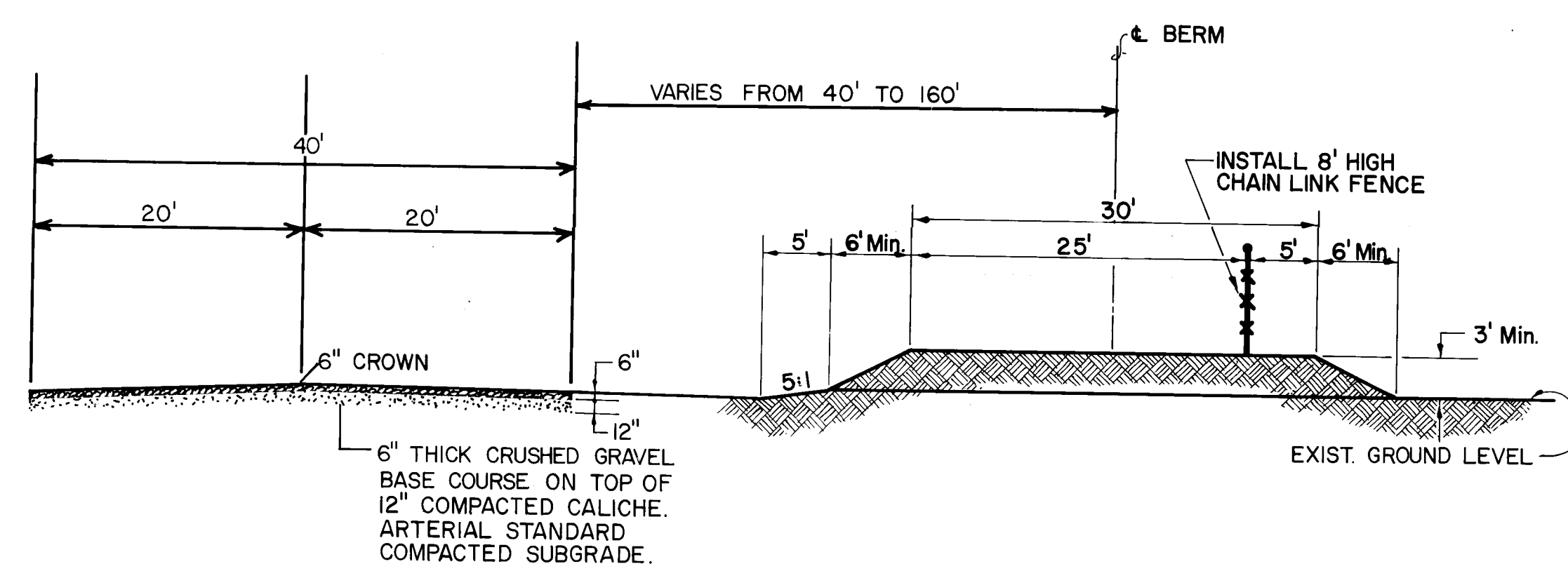
SECTION $\frac{A}{7}$ DIRT BERM

SCALE : 1" = 10'



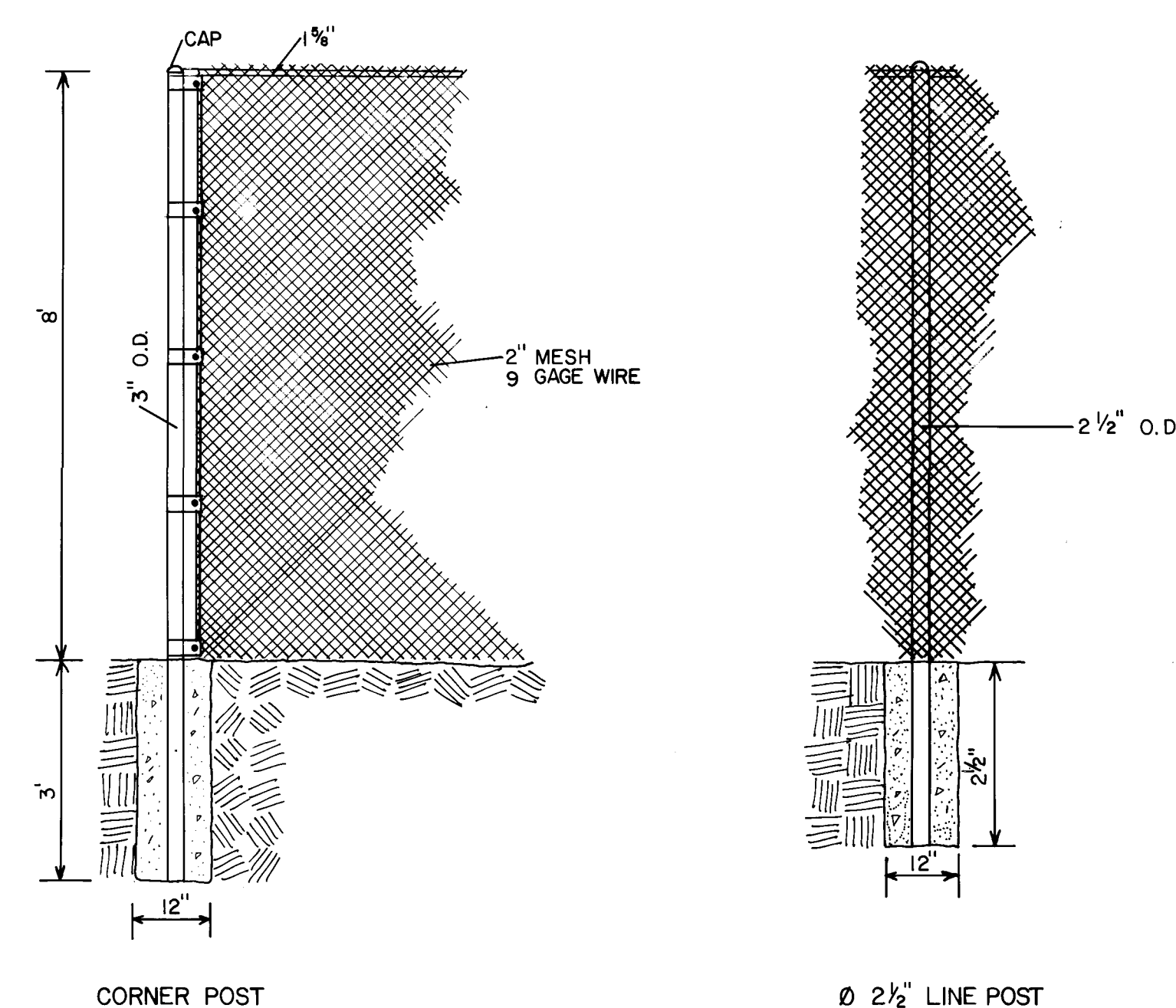
SECTION C DIRT BERM
7

SCALE: 1" = 10'



SECTION B GRAVEL ROAD AND DIRT BERM

SCALE: 1"=10'



CHAINLINK FENCING DETAILS

SCALE : 1" = 2'

LEGEND

DESIGNATION OF DETAIL.

A
7

① SHEET NUMBER WHERE DETAILED
DRAWING IS SHOWN.

BERM SHALL BE COMPACTED TO A MINIMUM 95% AS DETERMINED BY MODIFIED PROCTOR TEST.

[illegible]

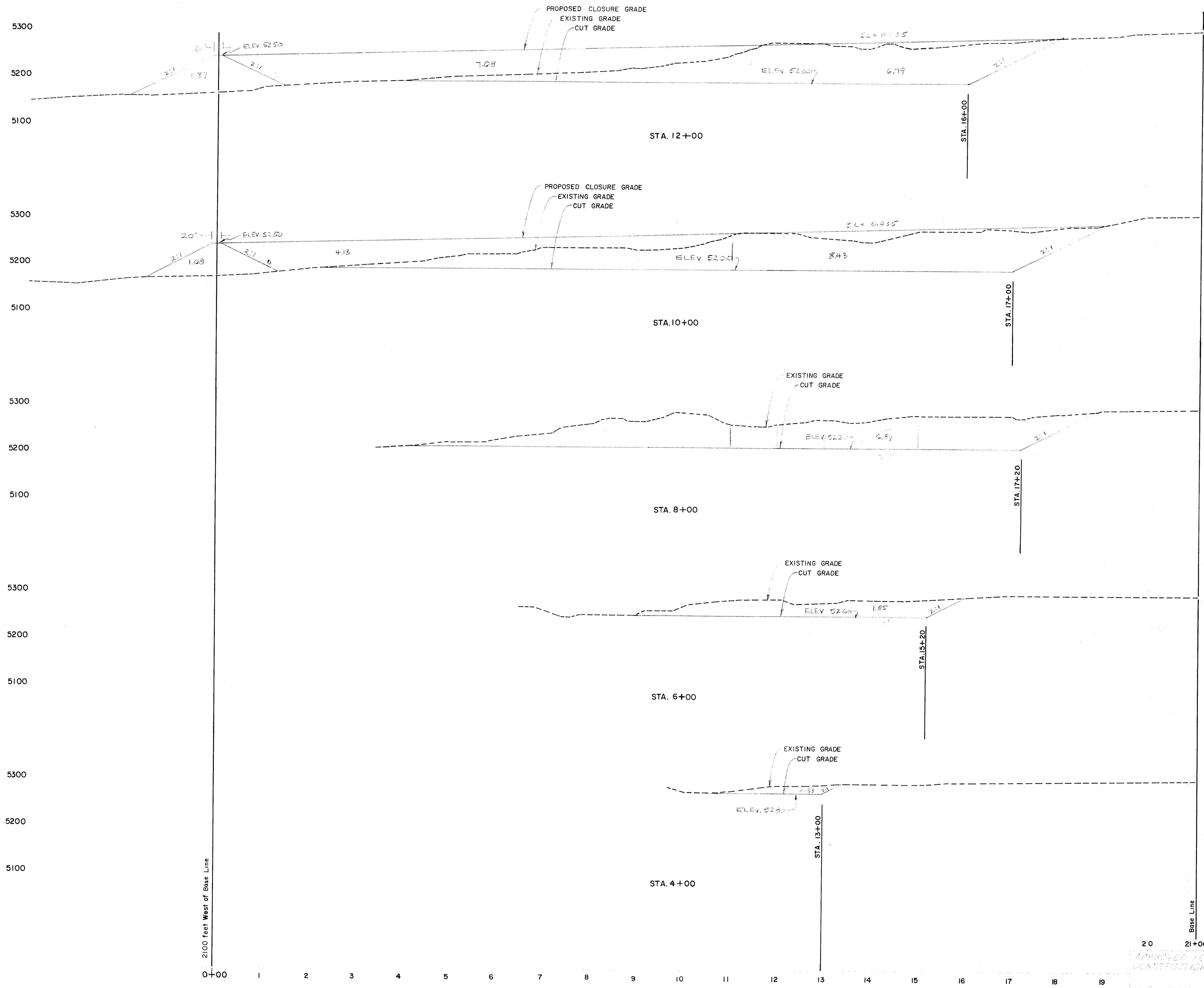
2	3	4	5	6	7	8	9	10	11	12	13	14	15
26	1	4	2	9						0	7	8	2

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SOUTH BROADWAY LANDFILL
BERM AND FENCING DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		7-26-21	Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. -Hydrology			Water		

DRAWING NO.	429	MAP NO.	S-14	SHEET 7 OF 25
-------------	-----	---------	------	---------------



SCALE: 1"=100' HORIZ.
1"=100' VERT.

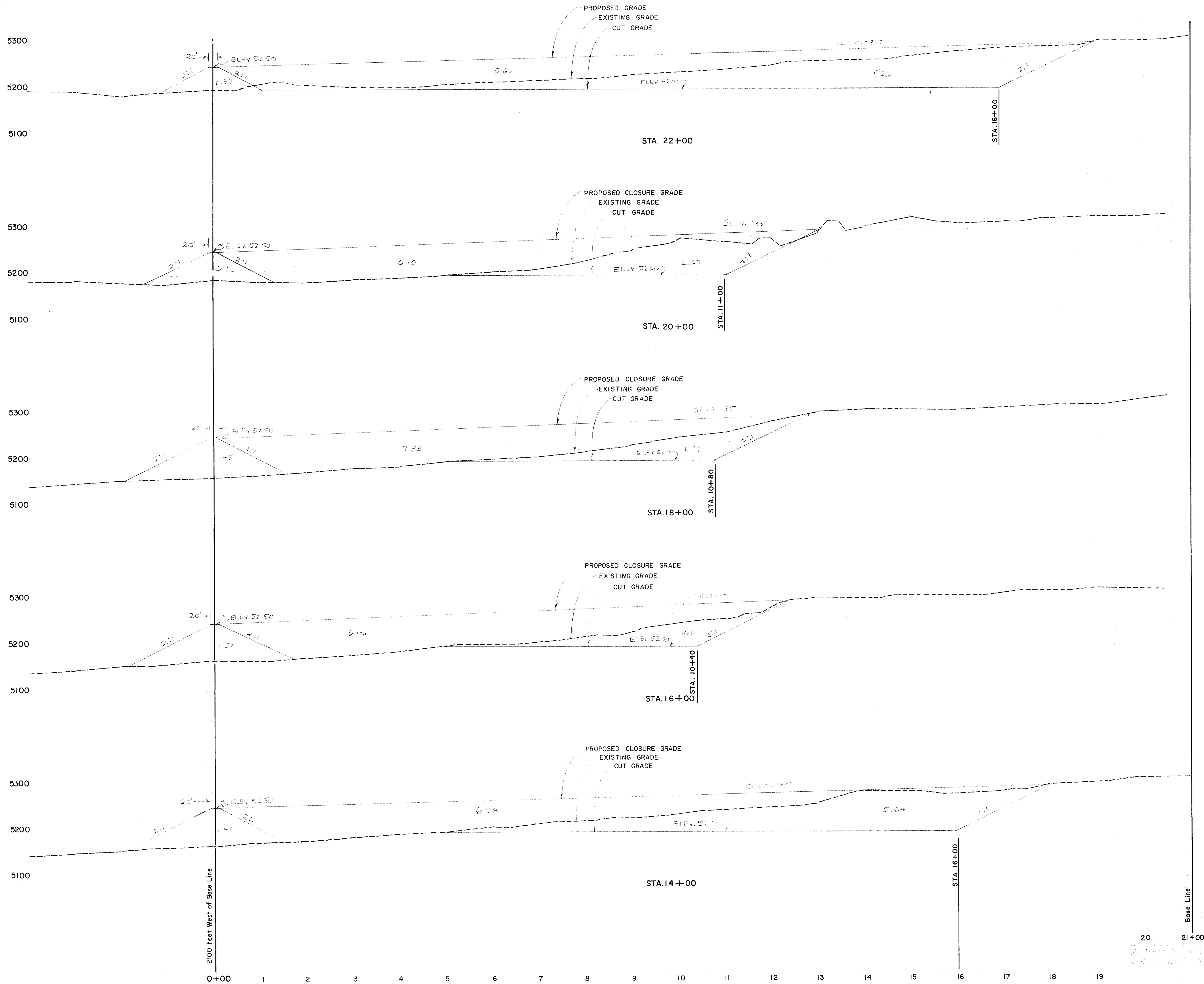
26 1429 0882

SOUTH BROADWAY LANDFILL - CROSS SECTIONS

7-26-82

N M 47-28 NEW MEXICO STATE HIGHWAY BRASS
TABLET STAMPED "NM 47-28, 1969" SET IN TOP OF
A CONCRETE POST FLUSH WITH THE GROUND ON
SOUTH BROADWAY 2.4 MILES SOUTH OF RIO BRAVO.
ELEV 5013.8
HV-6 PHOTOGRAMMETRIST'S CONTROL POINT
MARKED NEAR 2021 5307.92
29/28

C. TOMLINSON
T. SANCHEZ



SCALE: 1"=100' HORIZ.
1"=100' VERT.

26 1429 0982

SOUTH BROADWAY LANDFILL - CROSS SECTIONS

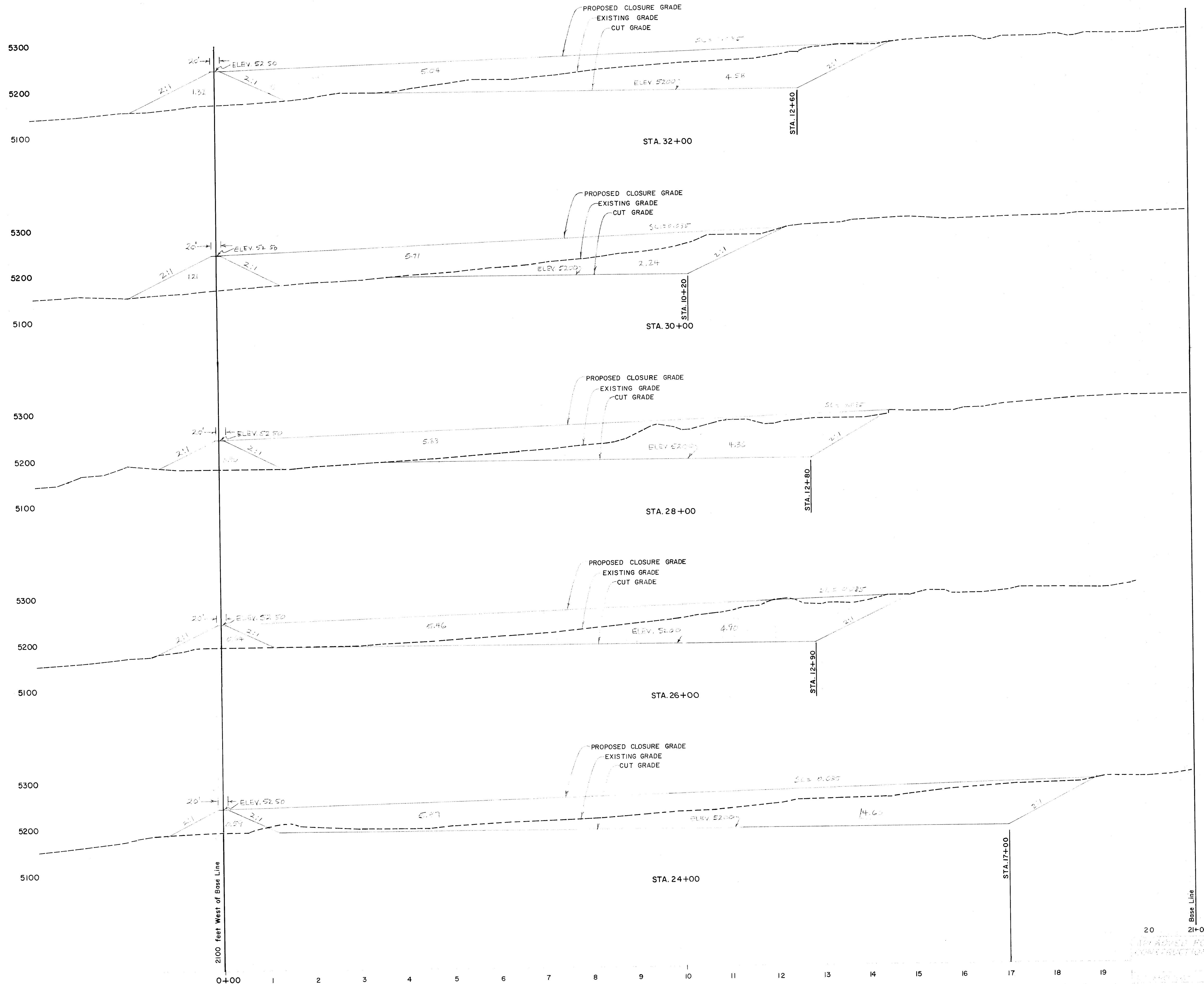
7-2-87

1429

NM 47-28 NEW MEXICO STATE HIGHWAY BRASS
TABLET STAMPED "NM 47-28, 1969" SET IN TOP OF
A CONCRETE POST FLUSH WITH THE GROUND ON
SOUTH BROADWAY 2.4 MILES SOUTH OF RIO BRAVO.
ELEV. 5033.8
HV-6 PHOTOGRAMMETRIST'S CONTROL POINT
MARKED NEAR 20+21 ELEV. 5307.92
29/28

C. TOMLINSON
T. SANCHEZ

9 25



SCALE: 1"=100' HORIZ.
1"=100' VERT.

26 1429 1082

SOUTH BROADWAY LANDFILL - CROSS SECTIONS

7-26-82

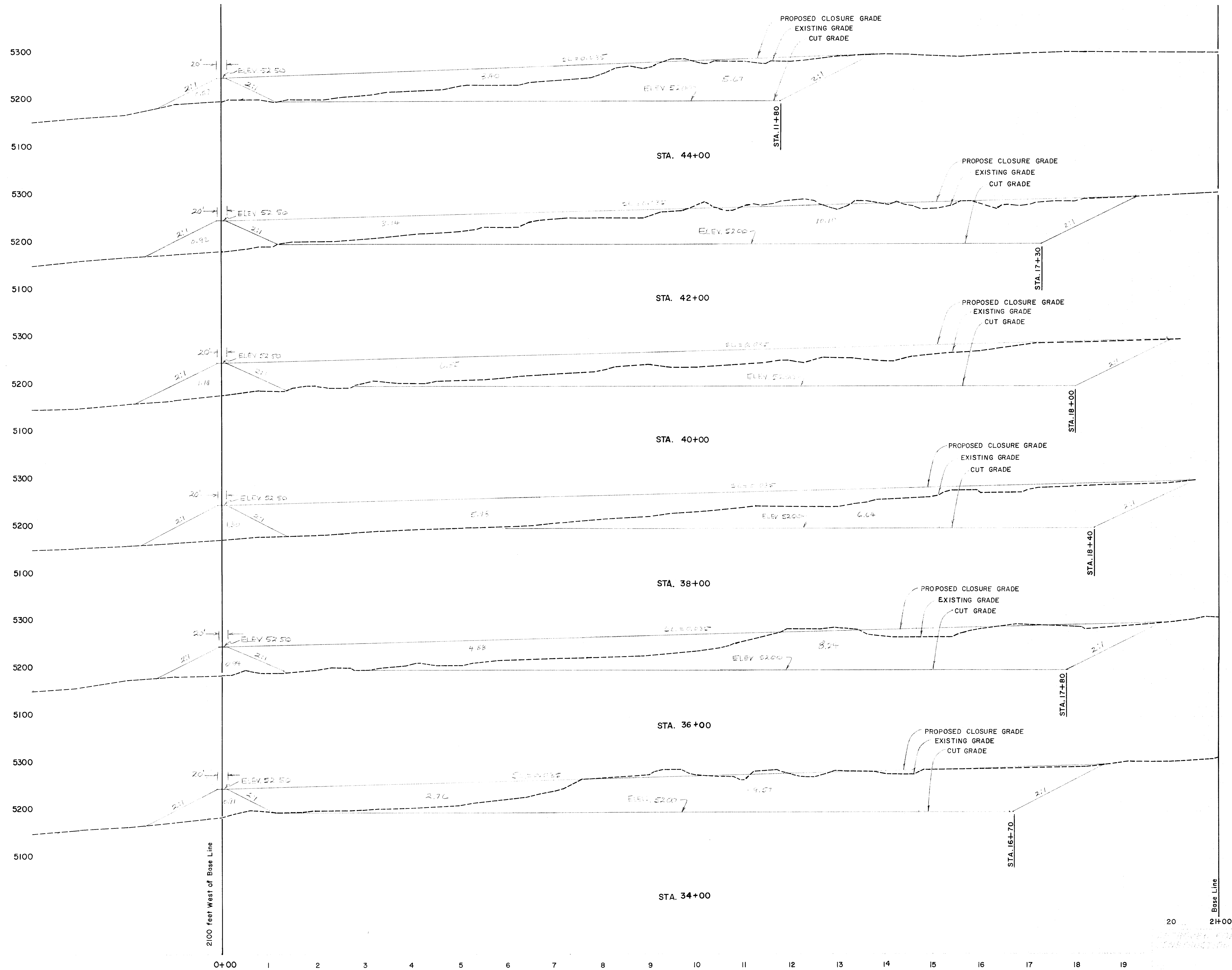
1429

NM 47-28 NEW MEXICO STATE HIGHWAY - BRASS
TABLET STAMPED "NM 47-28, 1969" SET IN TOP OF
A CONCRETE POST FLUSH WITH THE GROUND ON
SOUTH BROADWAY 2.4 MILES SOUTH OF RIO BRAVO.
ELEV. 5033.8
HV-6 PHOTOGRAMMETRIST'S CONTROL POINT
MARKED NEAR 20/21 ELEV. 5307.92
29/28

C. TOMLINSON
T. SANCHEZ

S-14

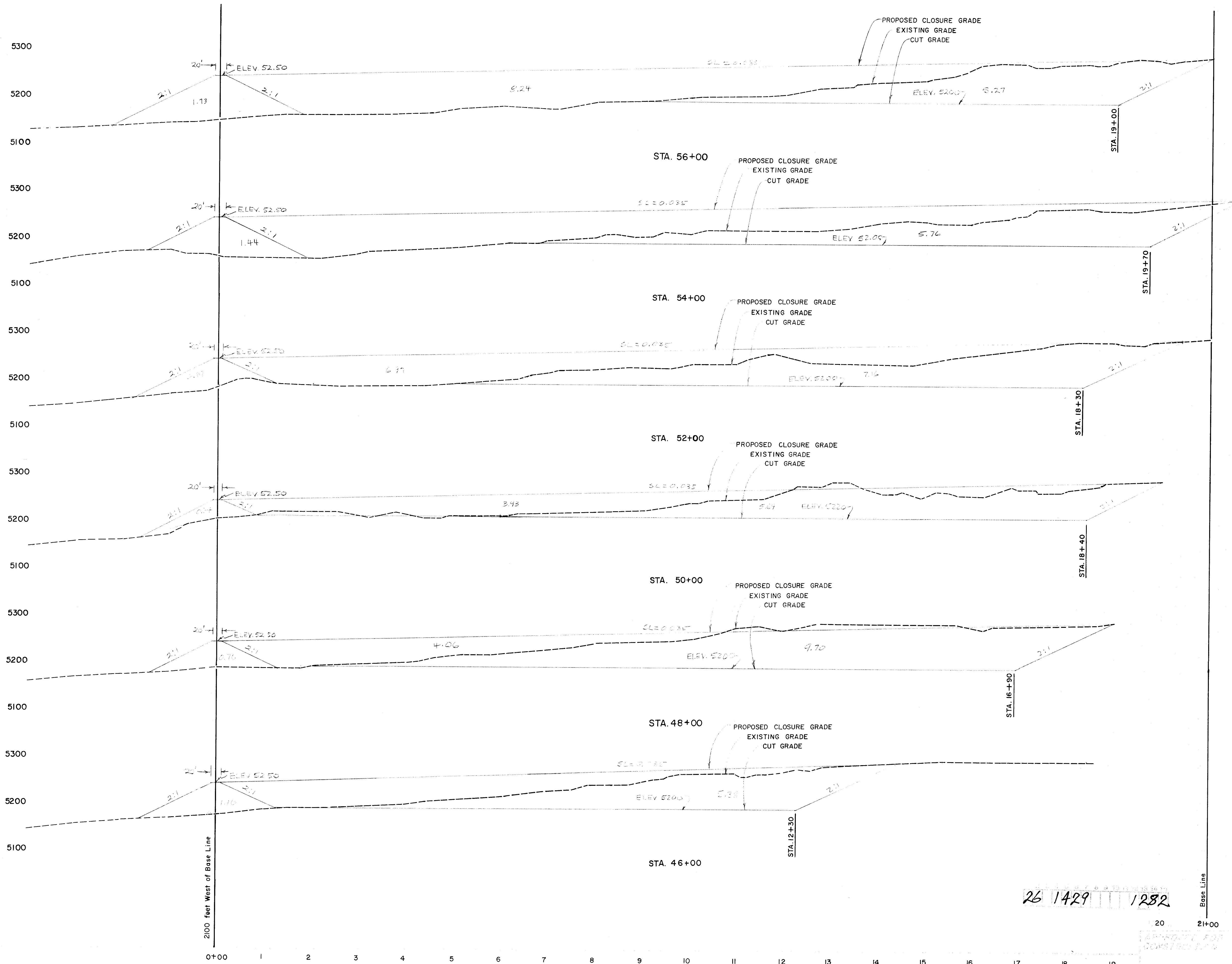
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SOUTH BROADWAY LANDFILL - CROSS SECTIONS

HV-6 PHOTOGRAMMETRIST'S CONTROL POINT
MARKED NEAR 20/21 ELEV. 5307.92
NM 47-28 NEW MEXICO STATE HIGHWAY-BRASS
TABLET STAMPED NM 47-28, 1969" SET IN TOP OF
A CONCRETE POST FLUSH WITH THE GROUND ON
SOUTH BROADWAY 2.4 MILES SO. OF RIO BRAVO.
ELEV. 5013.8

Celia Tomlinson
A.J. Olivas SR.
4/19/82
4/19/82



Vertical Scale: 1"=100'
Horizontal Scale: 1"=100'

SOUTH BROADWAY LANDFILL - CROSS SECTIONS

26 1429 1282

7-26-82

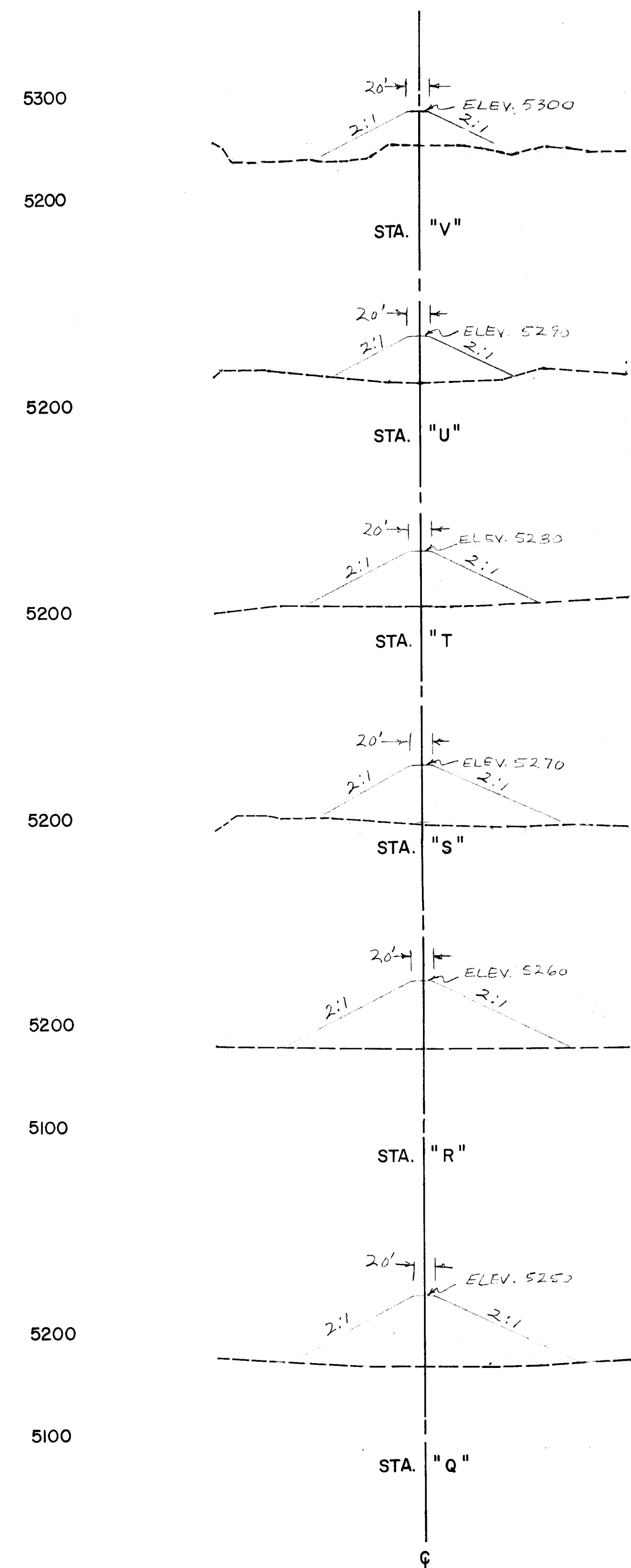
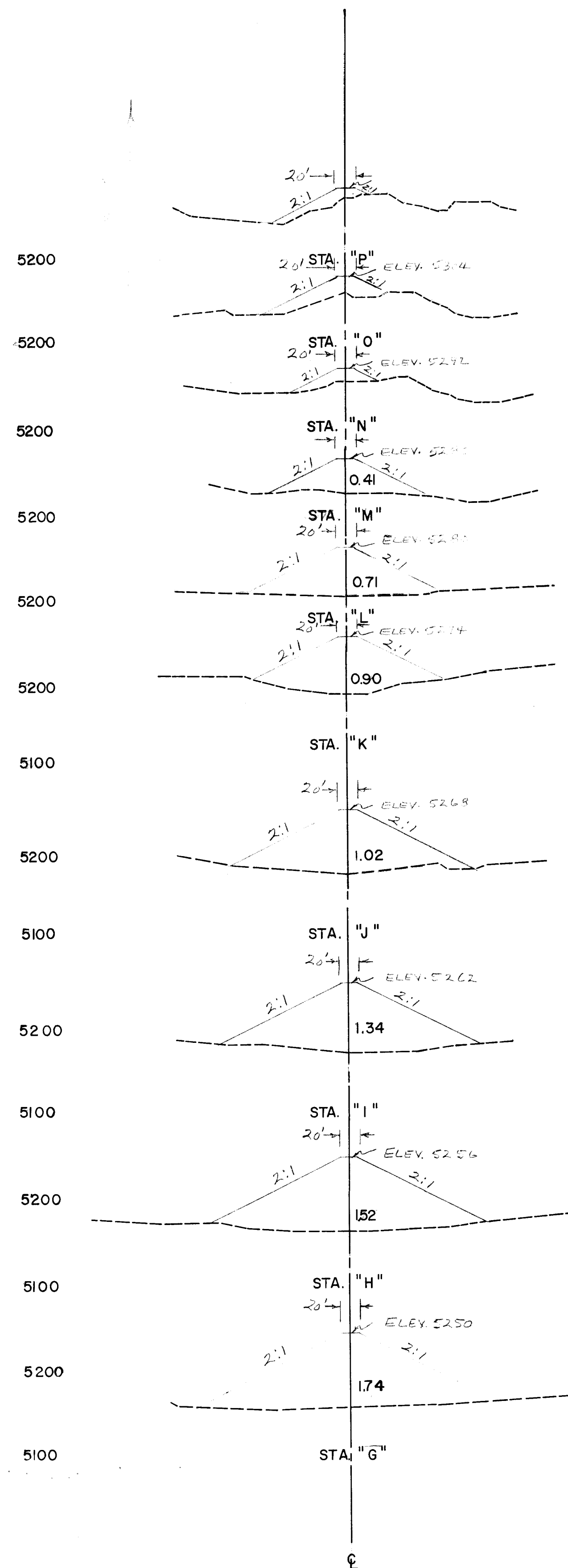
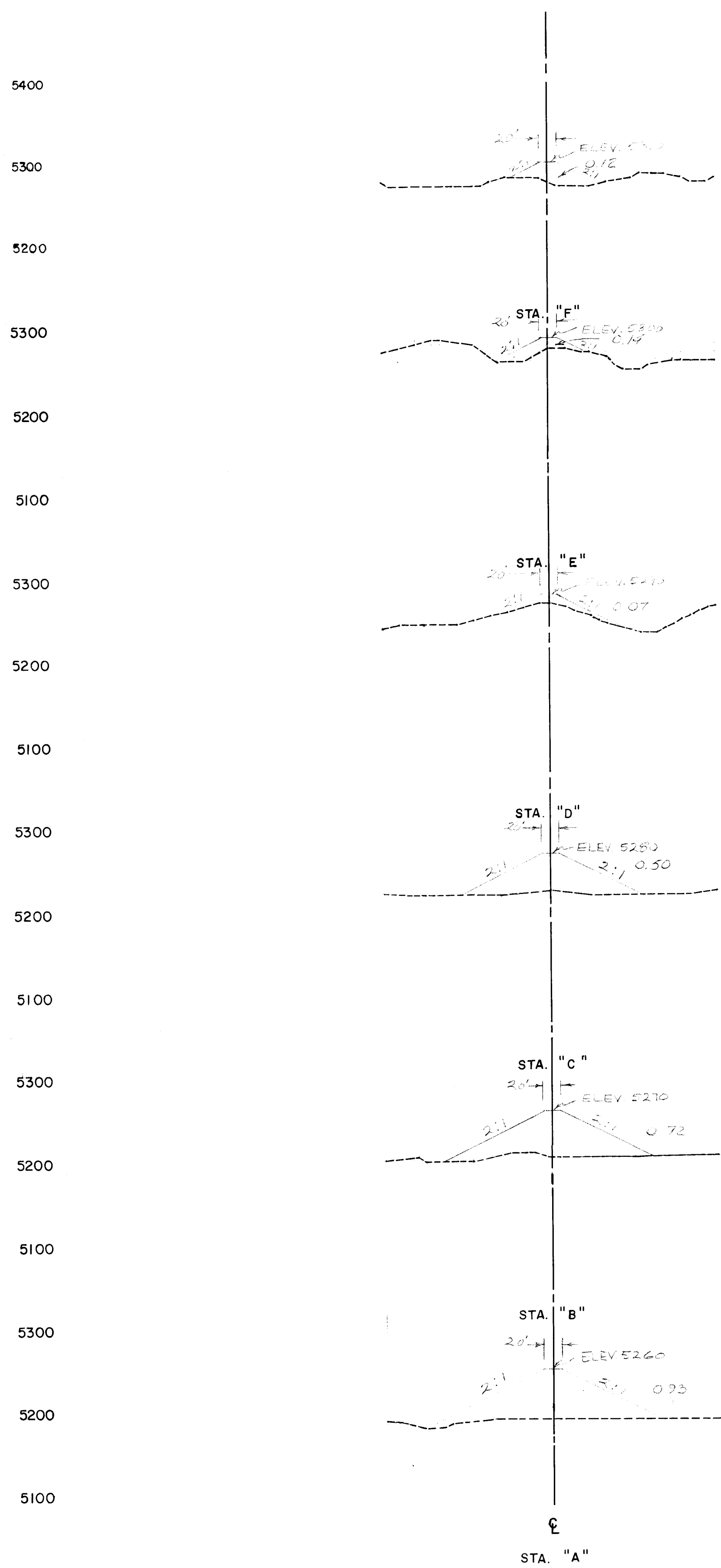
1429

12 25

HV-6 PHOTOGRAMMETRIST'S CONTROL POINT
MARKED NEAR 2021 ELEV. 5307.92

NM 47-28 NEW MEXICO STATE HIGHWAY - BRASS
TABLET STAMPED "NM 47-28 1969" SET IN TOP
OF A CONCRETE POST FLUSH WITH THE GROUND
ON S. BRDWAY. 2.4 MILES S. OF RIO BRAVO EL 5013.8

Celia Tomlinson
A.J. Olivas SR.



Vertical SCALE: 1"=100'
Horizontal SCALE: 1"=100'

SOUTH BROADWAY LANDFILL — CROSS SECTIONS

HV-6 PHOTOGRAMMETRIST'S CONTROL POINT
MARKED NEAR 2021 ELEV. 5307.92
NEW MEXICO STATE HIGHWAY BRASS TABLET STAMPED
"NM 47-28, 1969" SET IN TOP OF A CONCRETE POST
FLUSH WITH THE GROUND ON SOUTH BROADWAY 2.4
MILES SOUTH OF RIO BRAVO.
ELEV. 5013.8

S-14

CELIA TOMLINSON
4-16-82
A.J. Olivas SR

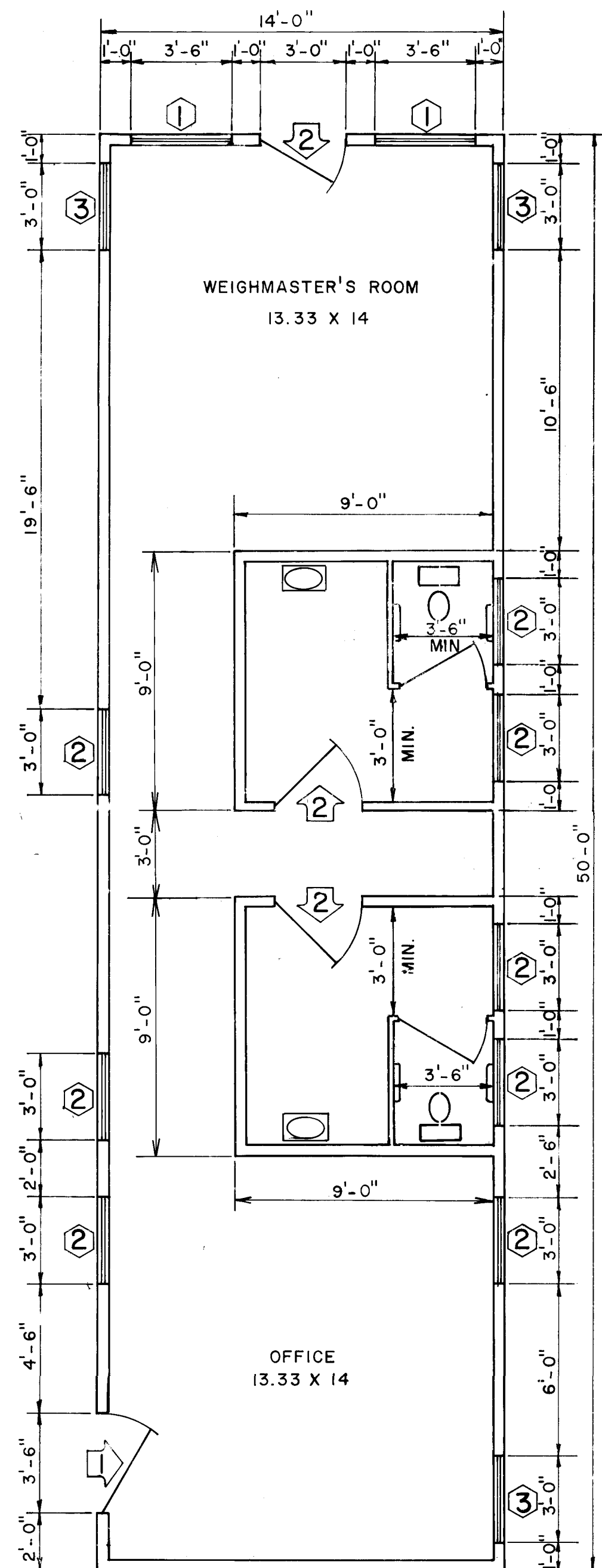
26 1429 1382

26-82

1429

13

25



FLOOR PLAN
SCALE: 1/4" = 1'-0"

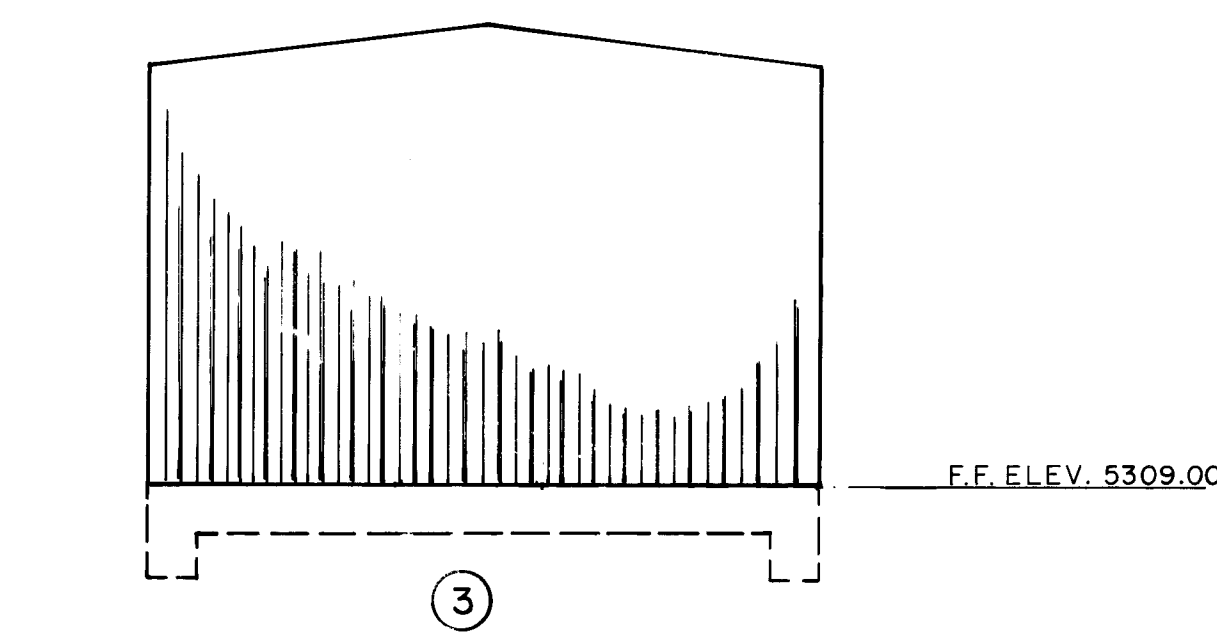
WINDOW SCHEDULE

No	Qty	Width	Height	Remarks
①	2 EA	3'-6"	3'-0"	SEALED
②	8 EA	3'-0"	1'-6"	SEALED
③	3 EA	3'-0"	3'-0"	SLIDING
④	2 EA	2'-0"	2'-0"	SEALED

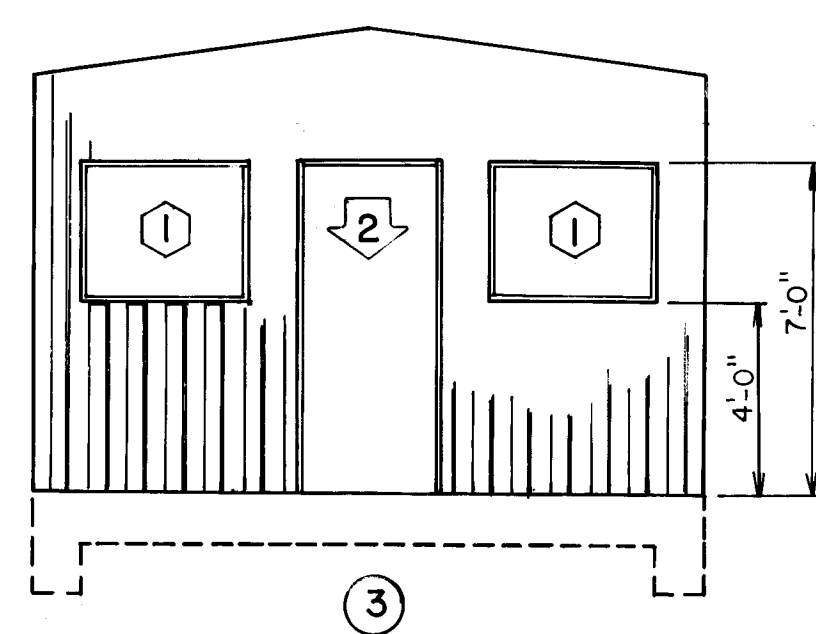
DOOR SCHEDULE

No	Qty	Width	Height
①	1 EA	3'-6"	7'-0"
②	3 EA	3'-0"	7'-0"

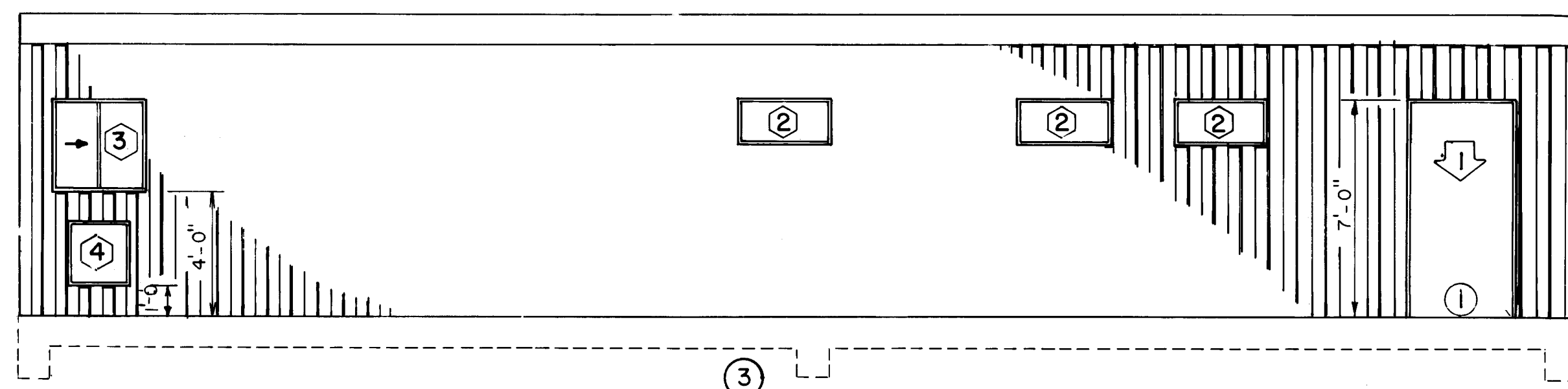
EAST SIDE ELEVATION
SCALE: 1/4" = 1'-0"



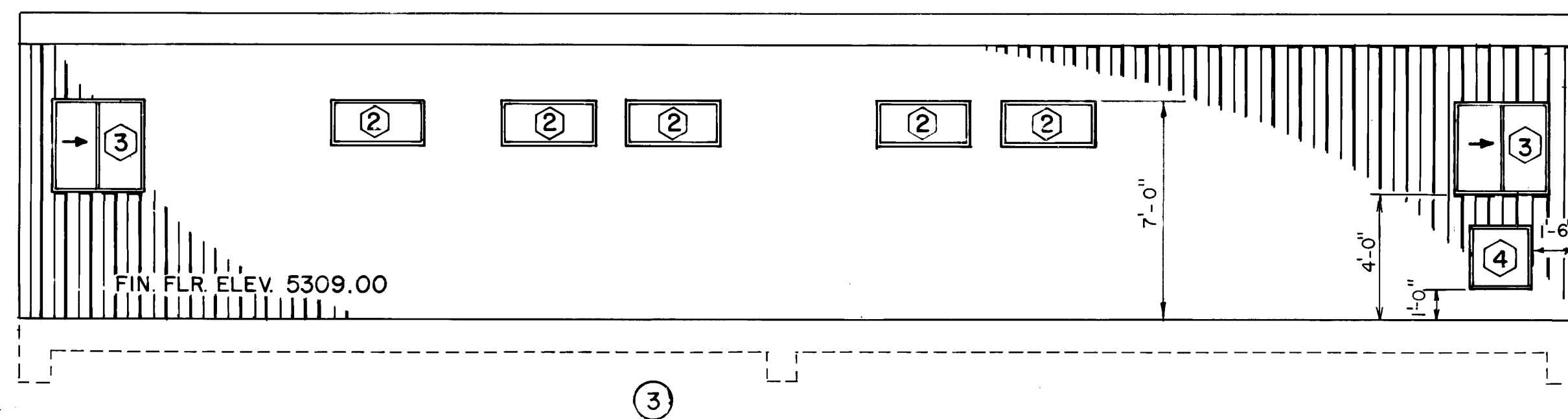
SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



NORTH ELEVATION
SCALE: 1/4" = 1'-0"



WEST SIDE ELEVATION
SCALE: 1/4" = 1'-0"



DESIGN DATA	
OCCUPANCY GROUP	B-2
SEISMIC ZONE	2
WIND	25 PSF
LIVE LOAD	20 PSF
CONSTRUCTION TYPE	V-N
SOIL BEARING PRESSURE	4000 PSF

NOTES:

- Build concrete ramp at minimum slope of 1:15.
- Toilet construction and installation of plumbing fixtures shall be per Uniform Building Code Section 1711
- Footing shall be designed & built per prefab building manufacture.
- Standard interior and exterior colors to be determined by purchaser.

NOTE

ALL ELECTRICAL, PLUMBING, AND HVAC SYSTEMS SHALL BE FACTORY INSTALLED AND SHALL MEET THE BUILDING REQUIREMENTS.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		C.T.	
CONTRACTOR	WORK	N.M. 47-28	NEW MEXICO	FIELD NOTES	DATE				
INSPECTED BY	DATE	HIGHWAY	BRASS TABLET	BY					
ACCEPTANCE BY	DATE	STAMPED	"NM-47-28, 1969"	NO.					
VERIFICATION BY	DATE	SET IN TOP OF A CONCRETE PLUSH	WITH THE GROUND ON SOUTH BROADWAY						
DRAWINGS	DATE	2.4 MILES SOUTH OF RIO BRAVO							
REVISIONS	DATE								
RECORDED BY	DATE	ELEV. 5013.80							
NO		HV-6 PHOTOGRAMMETRIST'S CONTROL POINT							
		NEAR	2012	ELEV. 5307.92					

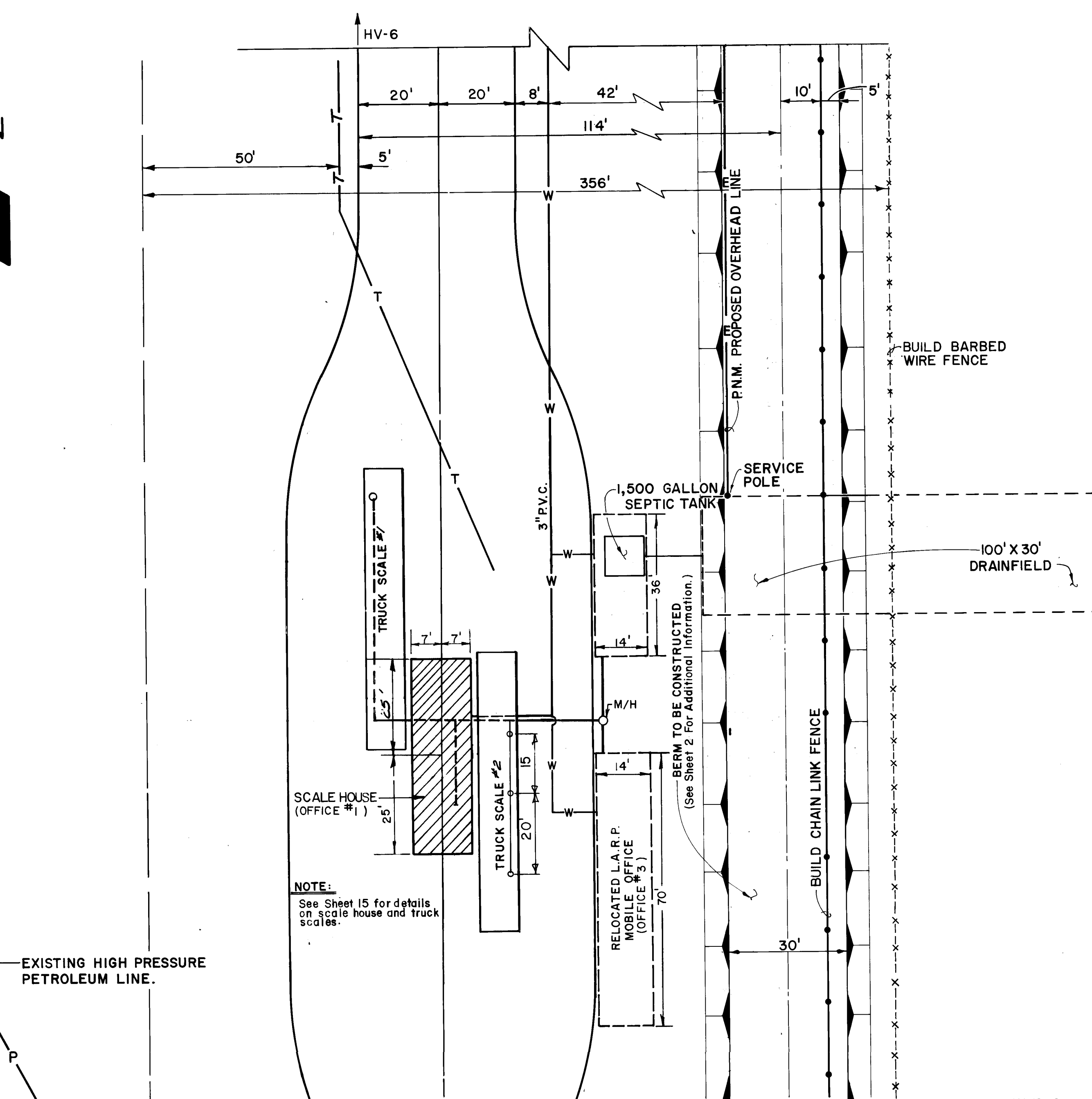
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SOUTH BROADWAY LANDFILL
SCALE HOUSE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		7-26-82	Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO.	1429	MAP NO.	S-14	SHEET	15	OF	25
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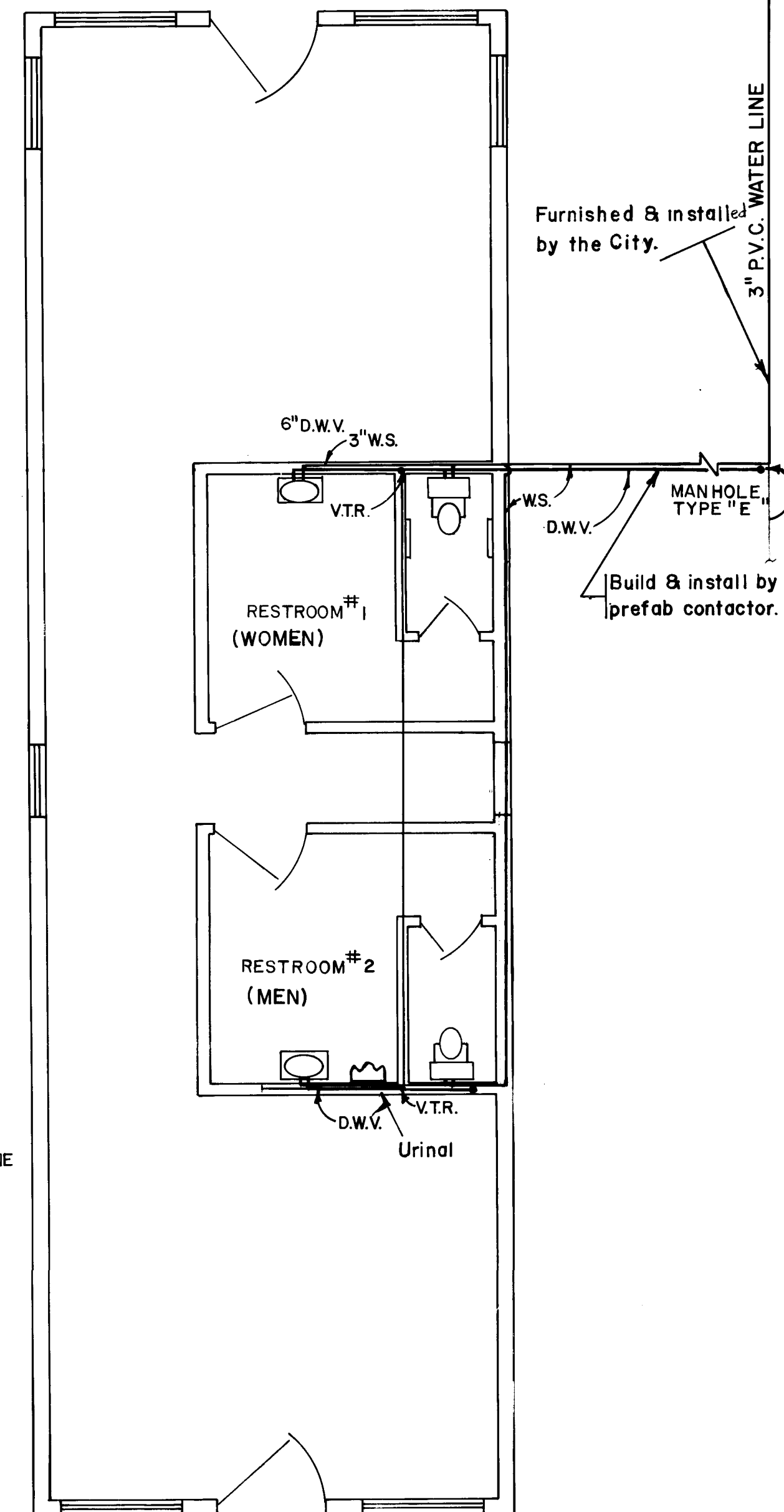
SITE PLUMBING SCALE: 1" = 20'



NOTE:
See Sheet 15 for details on scale house and truck scales.

LEGEND:

D.W.V. - DRAIN WASTE VENTLINE
W.S. - WATER SUPPLY LINE
V.T.R. - VENT THRU ROOF
-T- TELEPHONE CABLE



SCALE HOUSE PLUMBING
SCALE: 1" = 4'

Bathroom fixtures to be furnished & installed by the prefab building Contractor:

- 1- Urinal
- 2- Sink
- 2- Water closet
- 2- Toilet paper holder
- 2- Paper towel dispenser
- 2- Liquid soap dispenser
- 2- 18" x 24" plate glass mirror
- 4- Grab bars
- 1- "Women" sign
- 1- "Men" sign

HANDICAP
Toilet and fixtures per section 1711 of plumbing code.

NOTE

ALL ELECTRICAL, PLUMBING, AND HVAC SYSTEMS SHALL BE FACTORY INSTALLED AND SHALL MEET THE BUILDING REQUIREMENTS.

The Prefab Building Contractor shall furnish and install the plumbing system including: the 6" main sewer line and its connection to the septic tank; the 3" water supply line and its connection to the 3" p.v.c.

SURVEY INFORMATION			BENCH MARKS			AS BUILT INFORMATION		
NO.	DATE	BY	NO.	DATE	BY	CONTRACTOR	DATE	BY
			NM 47-28 NEW MEXICO STATE HIGHWAY - BRASS					
			TABLET STAMPED "NM 47-28, 1969" SET IN TOP OF					
			A CONCRETE POST FLUSH WITH THE GROUND ON					
			SOUTH BROADWAY 2.4 MILES SOUTH OF RIO BRAVO.					
			ELEV. 5013.8					
			HV-6 PHOTOGRAMMETRIST'S CONTROL POINT					
			MARKED NEAR 20121 ELEV. 5307.92					
			29/28					

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SOUTH BROADWAY SANITARY LANDFILL
PLUMBING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		7-26-82	Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. 1429 MAP NO. S-14 SHEET 16 OF 25



INTERIOR WALL PARTITION SCALE: 3/4" = 1'-0"



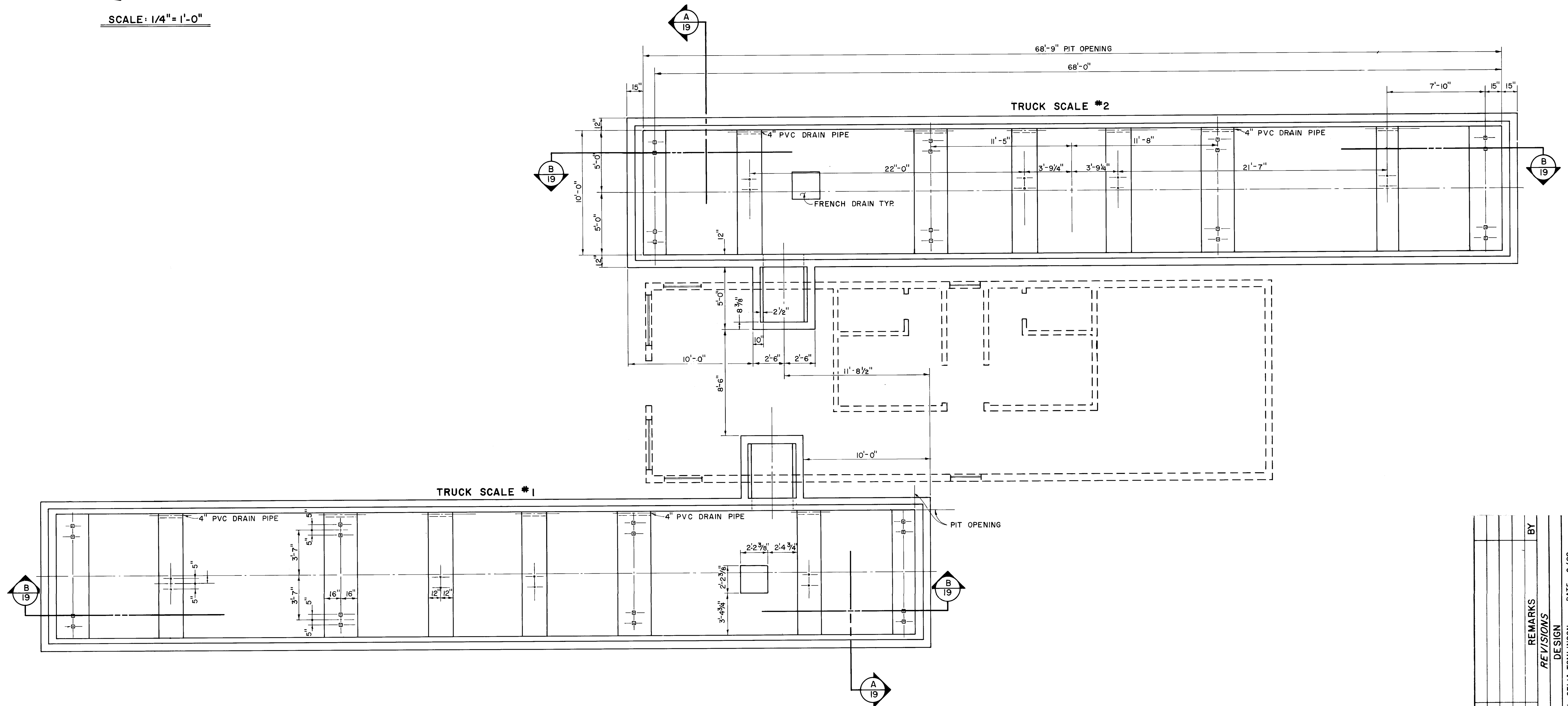
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
25			1	4	2	9						1	7	82

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		7-26-82	Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO.	1429	MAP NO.	S-14	SHEET	17	OF	25
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SCALE: 1/4" = 1'-0"

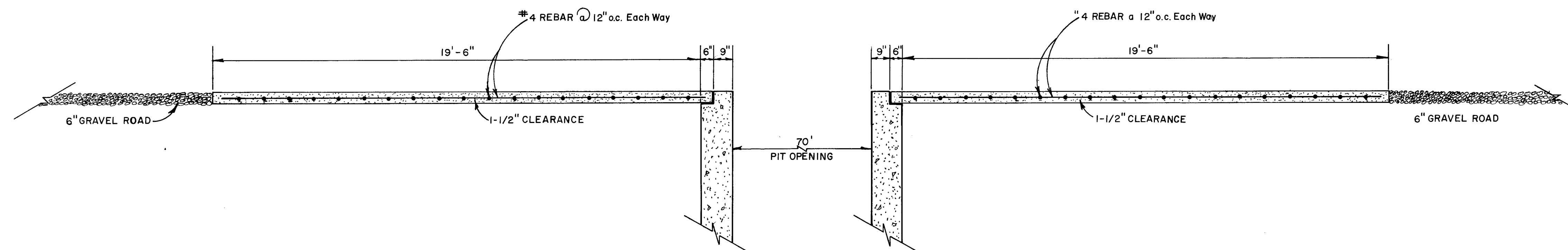


26 1429 1882

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: SOUTH BROADWAY LANDFILL TRUCK SCALE PITS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		7-26-82	Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. 1429		MAP NO. S-14		SHEET 18 OF 25	

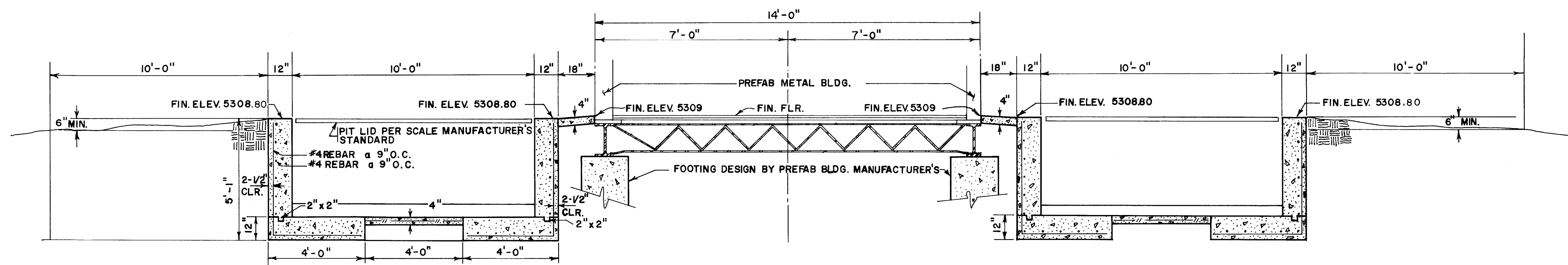
NO.	DATE	REMARKS	BY

DESIGNED BY	DATE	CHECKED BY	DATE
CELIA TOMLINSON <td>6/82<td>MIKE ZAMORA<td>9/82</td></td></td>	6/82 <td>MIKE ZAMORA<td>9/82</td></td>	MIKE ZAMORA <td>9/82</td>	9/82



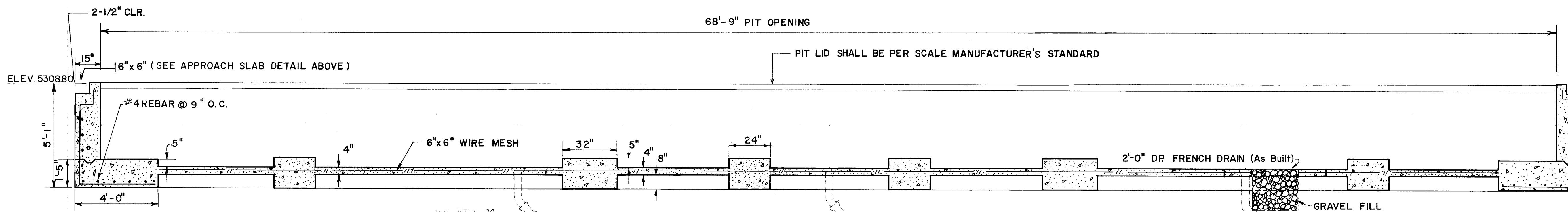
APPROACH & EXIT SLAB DETAIL

SCALE: 3/8" = 1'-0"



TYPICAL TRANSVERSE SECTION

SCALE: 3/8" = 1'-0"



TYPICAL LONGITUDINAL SECTION

SCALE: 3/8" = 1'-0"

NOTES:

1. Inside scale pit dimension tolerances shall be within 1/4".
2. All work shall be in accordance with the New Mexico Standard Specifications for Public Works Construction 1979 Edition and the City Wide Utilities and Cash Paving No. 30.
3. All reinforcing bars shall be deformed new billet steel per ASTM A-615 grade 40. Reinforcing steel shall be weldable.
4. Concrete strength data:
fc = 3,000 psi at 28 days.
5. All structural steel shapes shall conform to ASTM-A-36.
6. All bolts shall conform to ASTM 307.

1. N.M. 47-28 NEW MEXICO HIGHWAY BRASS
TABLET STAMPED "NM 47-28, 1969" SET
IN TOP OF A CONCRETE FLUSH WITH THE
GROUND ON SOUTH BROADWAY 2.4 MILES
SOUTH OF RIO BRAVO ELEV. 5013.80
2. HV-6 PHOTOGRAMMETRIST'S CONTROL POINT
MARKED NEAR 20121 ELEV. 5307.92
29/28

6/82
6/82

Celia Tomlinson
A.J. Olivas SR.

26 1429 1982

SOUTH BROADWAY LANDFILL
TRUCK SCALE PIT SECTIONS

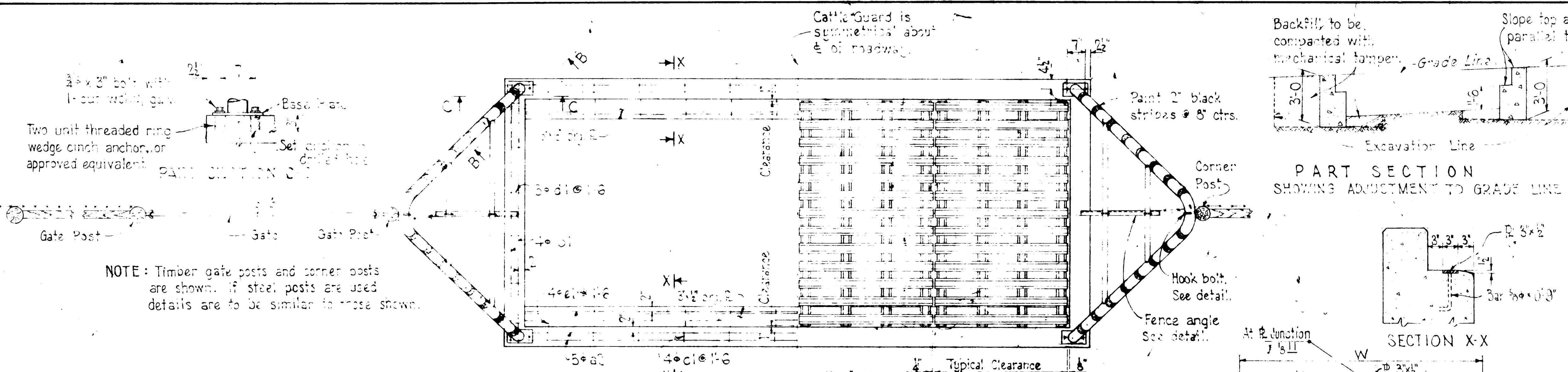
7-26-82

1429

S-14

19 25

FED. ROAD DIST. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6.	NEW MEXICO			



MATERIAL REQ'D FOR ONE CATTLE GUARD

ROADWAY WIDTH W	CONCRETE CU. YDS	REIN. STEEL LB.	WARNING DEVICES EACH	GRID UNITS No.
12'-0"	5.34 minus 0.056a	473	2	2
18'-0"	7.34 " 0.133a	656	2	3
24'-0"	9.34 " 0.111a	834	2	4
30'-0"	11.34 " 0.139a	1012	2	5
36'-0"	13.34 " 0.167a	1191	2	6
42'-0"	15.34 " 0.194a	1369	2	7
48'-0"	17.34 " 0.222a	1547	2	8

1-Gate with hinges and catch; 8-2"x3" bolts with anchors, 2-3/4"x18" hook bolts, 2-Fence angles, See details.

"a" in formula for concrete quantity is "a" dimension shown on grid unit details in inches.

*Gate, when required, will be paid for as a separate item.

MATERIAL REQ'D FOR ONE GRID UNIT

ITEM	UNIT A	UNIT B	UNIT C	UNIT D
Floor Pieces - Lin. Ft.	77'-8"	77'-8"	77'-8"	77'-8"
Stringers - Lin. Ft.	44'-5"	38'-0"	50'-10"	60'-15"
Tie Plates - Lin. Ft.	None	None	14'-0"	None

GENERAL NOTES

- All materials and workmanship to conform to N.M.S.H. Dept. Specifications. All concrete to be Class "A" unless noted otherwise on the project plans. Reinforcing steel to conform to ASTM Specification A-616, grade 40. Railroad rails may be used rails but must be free from bends and in good condition.
- Details shown are to be modified as necessary to conform to the grade line and super-elevation of the highway.
- Reinforcing bars over 30 ft. long may be spliced, using 24 diameter lap. Tabulated weights do not include lap.
- Aluminum members in warning devices shall conform to the AISI-T.M. Specifications: B-429, Alloy 6061 Temper T-6 for tubing; B-221, Alloy 6061 Temper T-6 for plate and B-209, Alloy 6061 Temper T-6 for base plate. All welding to be done with a 5% silicon aluminum shielded arc electrode.
- Cattle guard grids may be any of the units shown on this drawing. Each individual cattle guard must be provided with grids of identical type having the same weight rails. Minimum weights of rails and alternate types of grid units are shown for use of available material. No adjustment in the unit price will be allowed for rails of weights greater than the minimum. No substitution will be permitted for the 4 I 7.7 roadway rails in Grid Unit C.
- Warning devices to be striped with two coats of black paint conforming to the specifications. Stripes 3" wide at 8" centers as shown.

REINFORCING STEEL REQUIRED FOR CATTLE GUARD

W = Roadway Width	Reinforcing Steel Required
4'	6' a1 W+10' Reqd 8
6'	5' a2 W+10' " 8
8'	4' b1 8'-9' " 12
10'	3' c1 1'-3' 2'-6' Lg. Reqd 1W
12'	2' d1 1'-3' 2'-6' Lg. Reqd 1W
14'	1' e1 1'-3' 2'-6' Lg. Reqd 1W
16'	0' f1 1'-3' 2'-6' Lg. Reqd 1W

WELDING DETAIL

NOTE: Grids and bearing plates shall receive a prime coat of red lead, Type I, and two weld coats of aluminum paint. Do not paint surfaces embedded in concrete.

No.	DESCRIPTION	DATE
8	Changed Serial Number	11-8-80
7	Update Cat Note 4 All Alloy Specs.	1/22/81
6	Rev. Tie R. & Note 5	4/6/77
5	Update Note 4	6-7-71
4	Update notes	12-25-71
3	Added bearing bar and drain	3-1-62
2	General Notes 4 & 5	5-22-61
1	Notes	1-21-61

NEW MEXICO

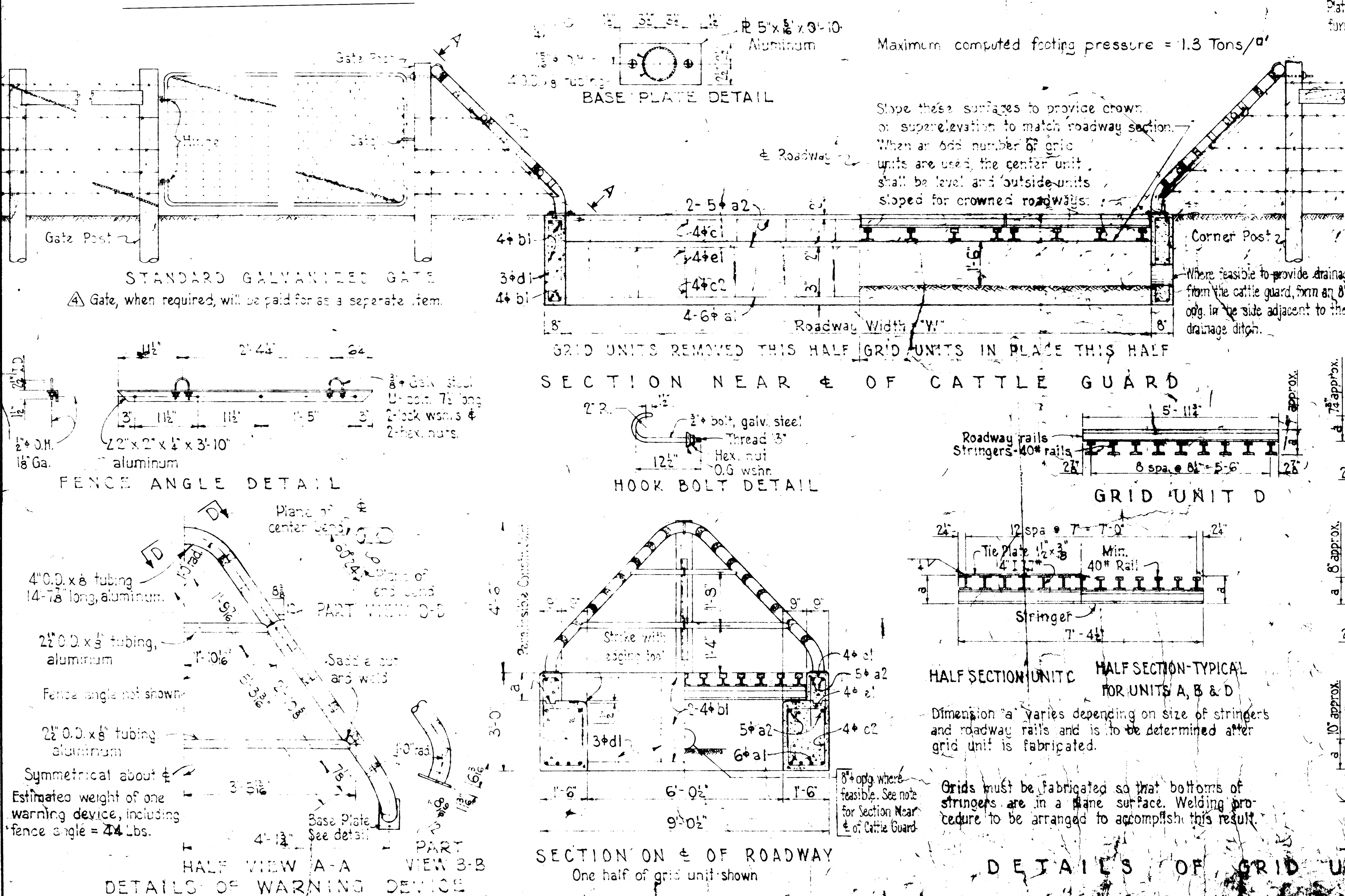
STATE HIGHWAY DEPARTMENT

CONCRETE AND STEEL CATTLE GUARD WITH ALUMINUM WARNING DEVICES

7-26-82

SERIAL BCG-001-08

LASON 1-505-344-9404
BEST COPY AVAILABLE

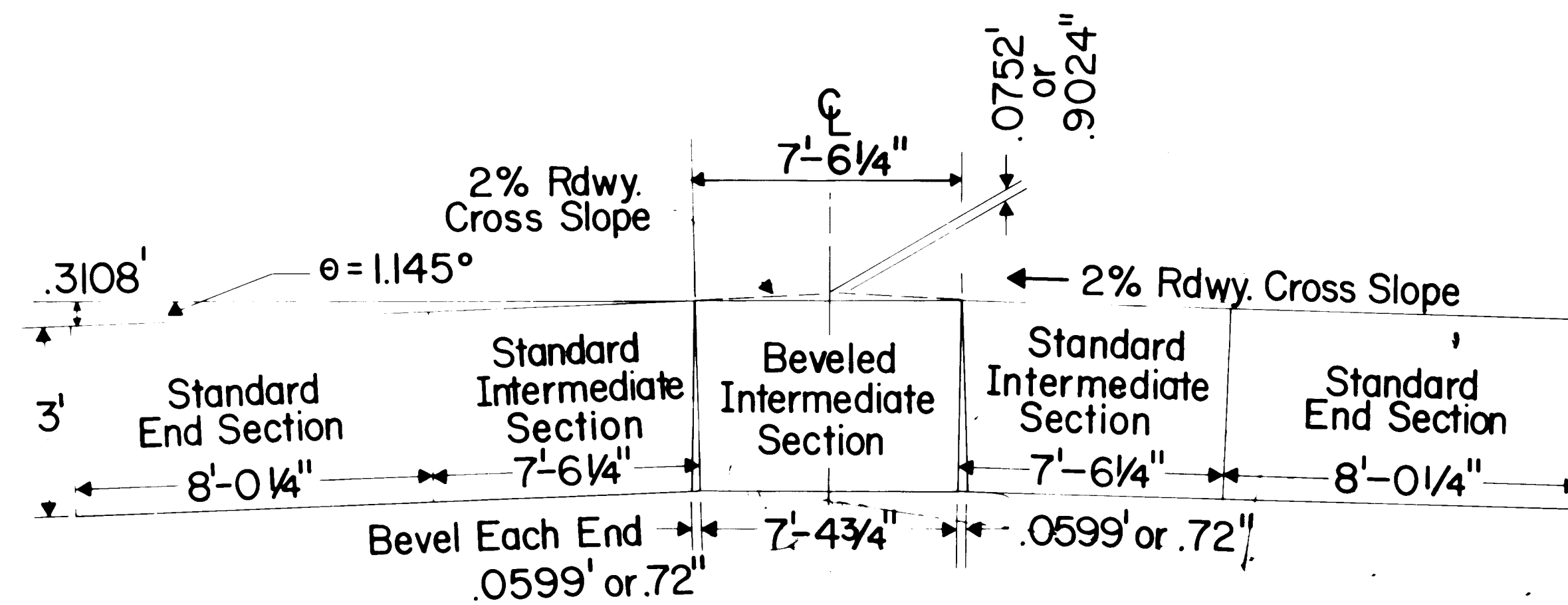


Designed by HKS-11-60 Checked by HKS-11-60
Details by HKS-11-60 Checked by HKS-11-60

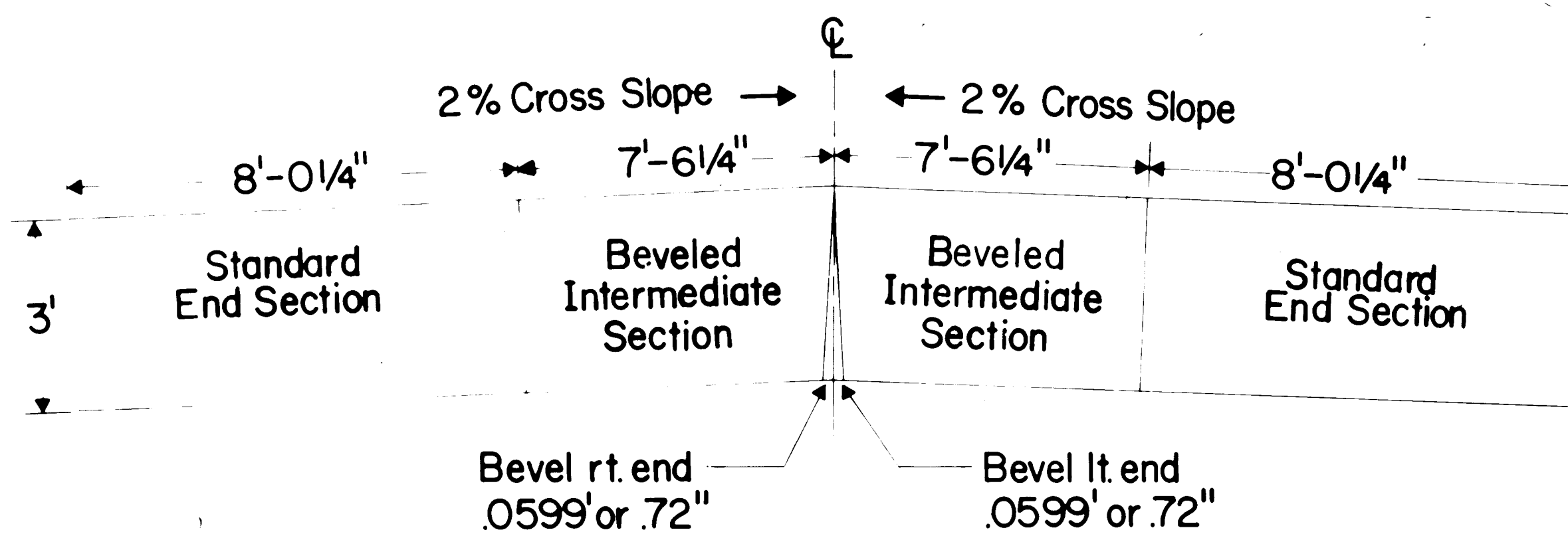
GENERAL NOTES

- When crown section is to be used beveled ends shall be specified on the unit ends as shown on the TYPICAL CATTLE GUARD INSTALLATION.
- When crown section is not to be used unit ends shall be perpendicular to the horizontal axis of the unit.
- Workmanship and material for reflective material and amber reflectors to conform with provisions of Section 701 and 703 of N.M. State Highway Department Standard Specifications for Road and Bridge Construction.
- When Precast Concrete Cattle Guards are used, types and numbers of units shall be as shown in TABLE "A", CATTLE GUARD WIDTHS, to provide the acceptable equivalent length.

LASON 1-505-344-9404
BEST COPY AVAILABLE



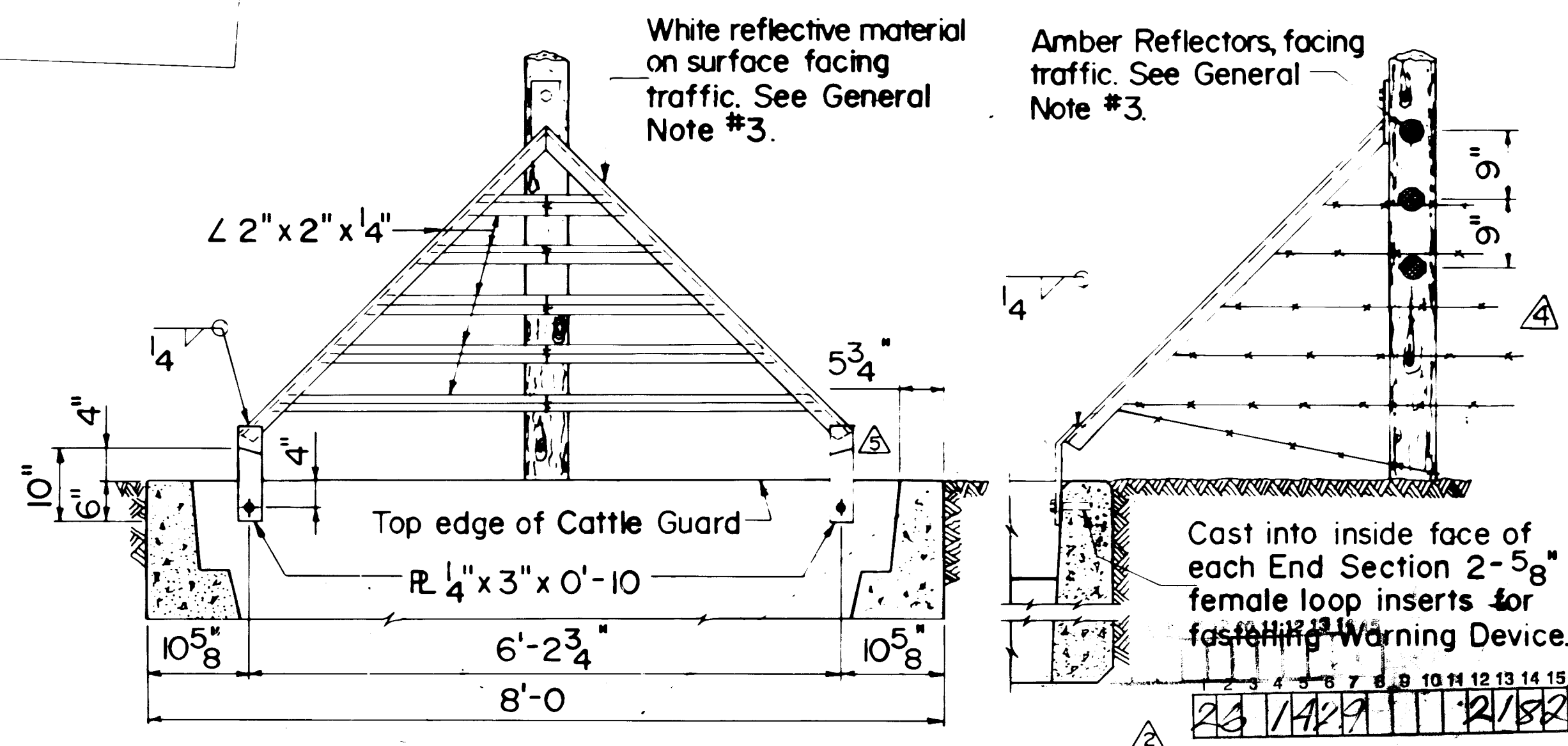
TYPICAL CATTLE GUARD INSTALLATION
ODD NUMBER OF UNITS



TYPICAL CATTLE GUARD INSTALLATION
EVEN NUMBER OF UNITS

TABLE "A"
CATTLE GUARD WIDTHS

Standard Cattleguards Serial Number BCG-001 BCG-002	Precast Cattleguard Serial Number BCG-004
12'-0"	16'-0 1/2" (2 End Sec.) Even Number of Units
18'-0"	23'-6 3/4" (2ES+1 Inter. Sec.) Odd Number of Units-Center Inter. Sec. Beveled
24'-0"	31'-1" (2ES+2 Inter. Sec.) Even Number of Units-2 Inter. Sec. Beveled
30'-0"	38'-7 1/4" (2ES+3 Inter. Sec.) Odd Number of Units-Center Inter. Sec. Beveled
36'-0"	46'-1 1/2" (2ES+4 Inter. Sec.) Even Number of Units- 2 Inside Inter. Sec. Beveled
42'-0"	53'-7 3/4" (2ES+5 Inter. Sec.) Odd Number of Units- Center Inter. Sec. Beveled



ALTERNATE WARNING DEVICE CONNECTION

6	CHANGE WIDTH FOR 18' STD. C. G.	10-30-81 E.R.D.
5	REVISED WARNING DEVICE CONNECTION	10-2-80 E.R.D.
4	FENCE TO WARNING DEVICE CLOSURE	7-28-80 ADCO
3	ADDED GENERAL NOTE #3	1-28-80 E.R.D.
2	ADDED ALTERNATE WARNING DEVICE	1-25-80 E.R.D.
1	CHANGED SERIAL NUMBER	12-18-79 E.R.D.

NEW MEXICO
STATE HIGHWAY DEPARTMENT

PRECAST
CONCRETE CATTLE GUARD

LAYOUT AND UPDATE BY ADCO	APPROVAL RECOMMENDED BRIDGE ENGINEER	DATE 1-17-77
DRAFTED BY FB.77	APPROVED ENGINEER OF DESIGN	DATE 12-19-77
CHECKED BY AR Jr.		

SERIAL BCG-005-06

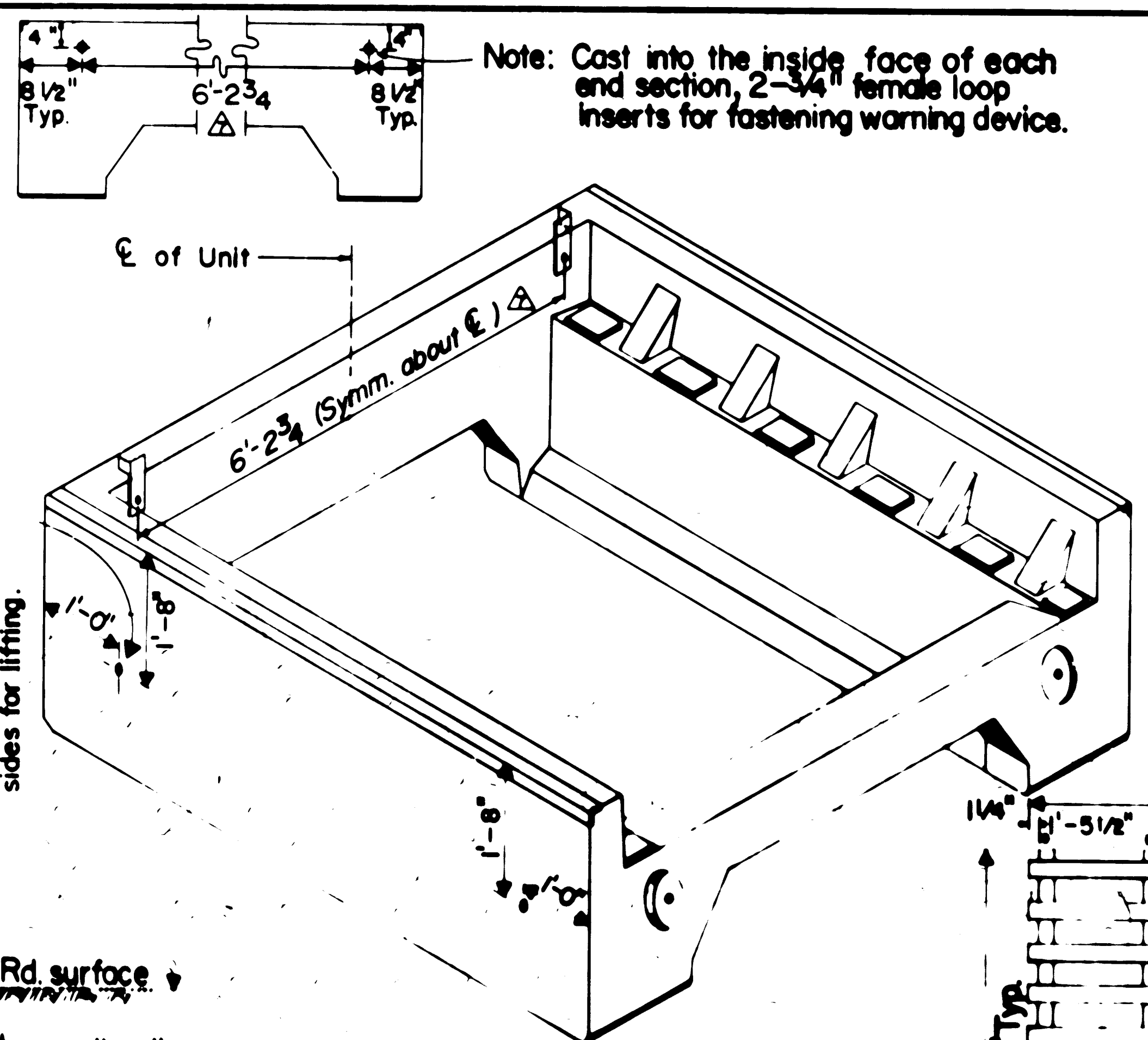
DRAWING
NO. 1429 SHEET 21 OF 25

F.H.W.A. Region No.	STATE	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		

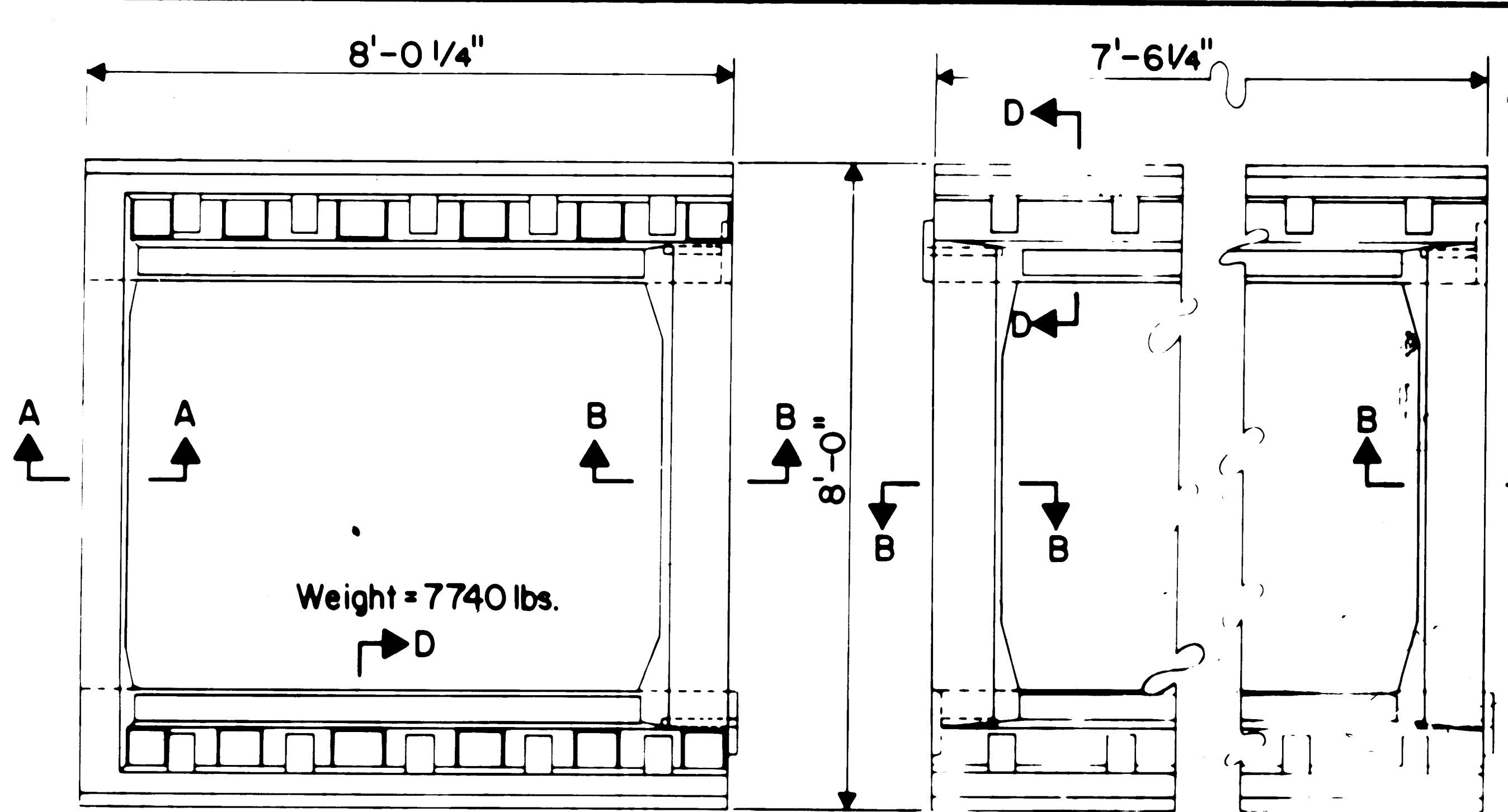
GENERAL NOTES

LASON 1-505-344-9404
BEST COPY AVAILABLE

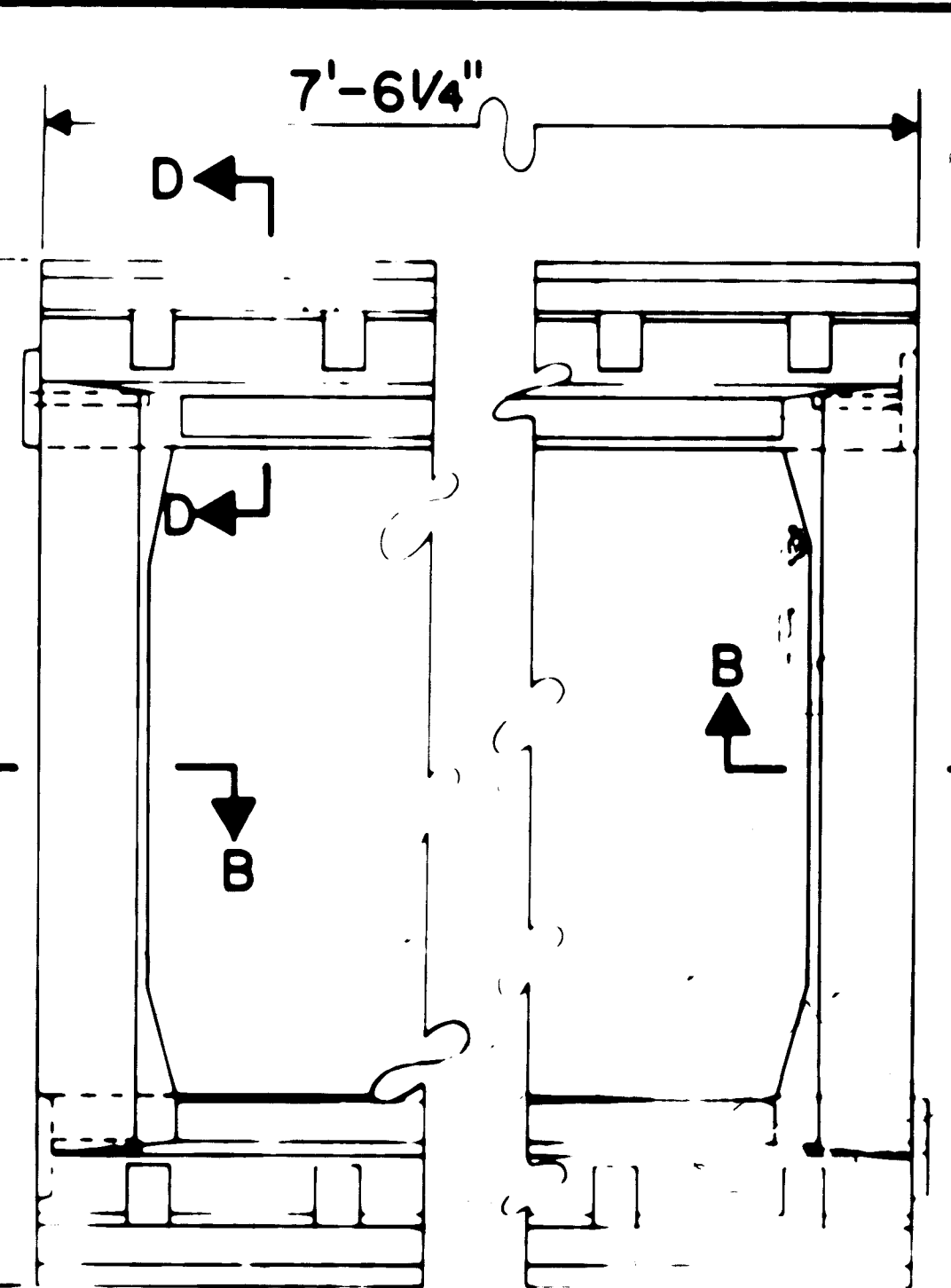
1. Structural steel shall conform to the requirements of AASHTO Specification M183.
2. Backfill material shall conform to AASHTO specification M-145, classification A-1, A-2-4, A-2-5, or A-3. No material shall be large enough to be retained on a sieve with 2 inch square openings.



Note: Cast into the inside face of each end section, 2-3/4\" female loop inserts for fastening warning device.



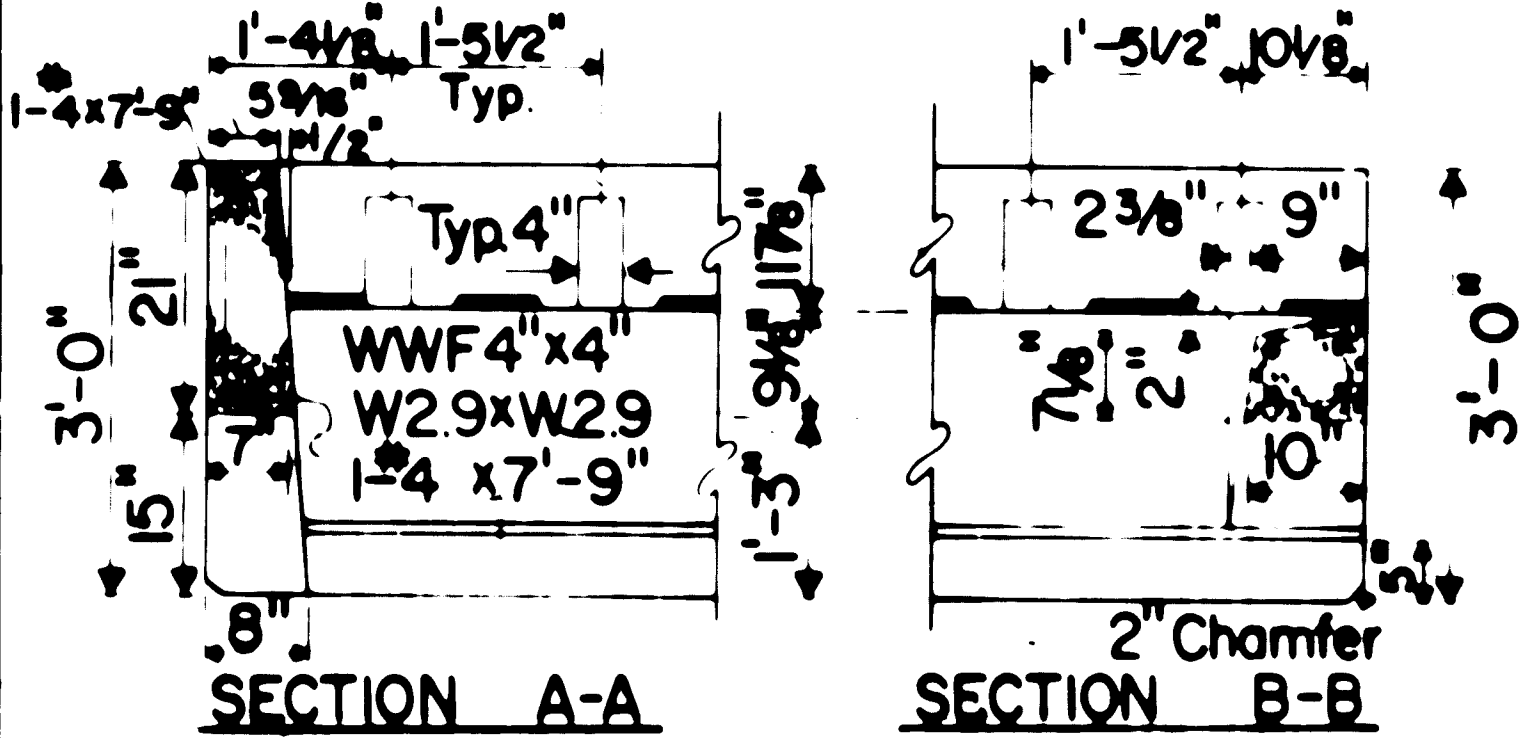
Weight = 7740 lbs.



Weight = 7460 lbs.

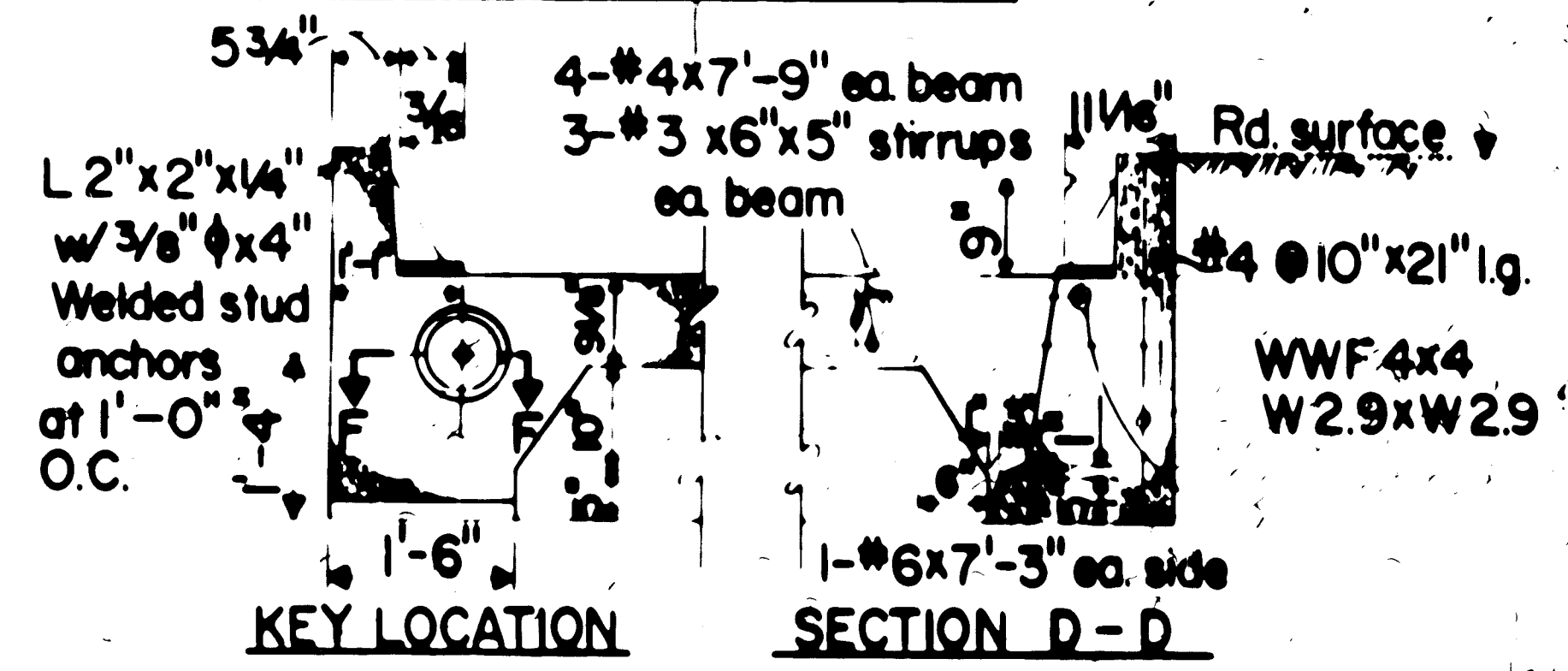
PLAN OF END UNIT

PLAN OF INTERMEDIATE UNIT



SECTION A-A

SECTION B-B

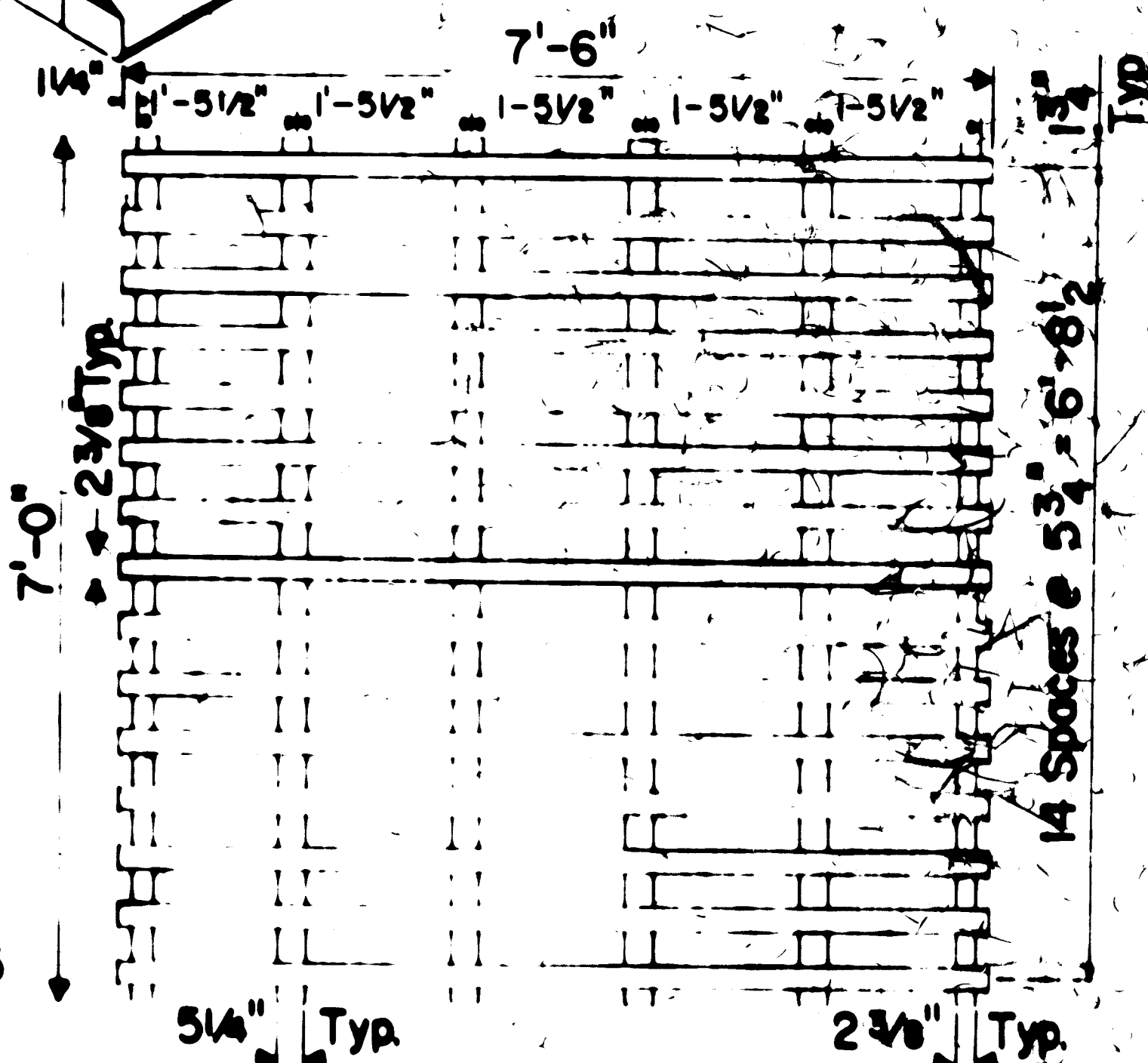


KEY LOCATION

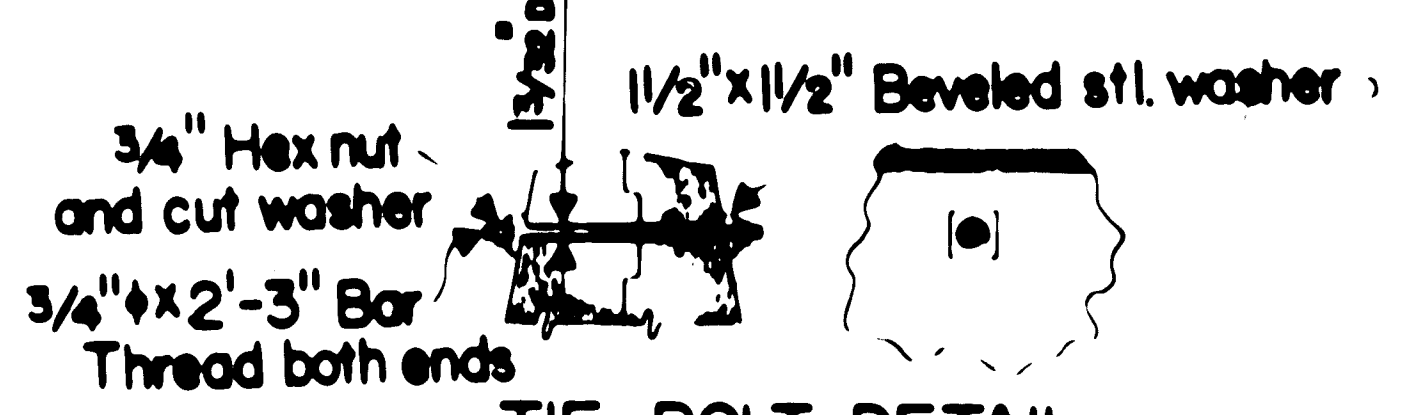
SECTION D-D

ISOMETRIC VIEW OF END UNIT

NOTE: When Precast Concrete Cattle Guard is used for non-drainage purposes specify, closed end section.



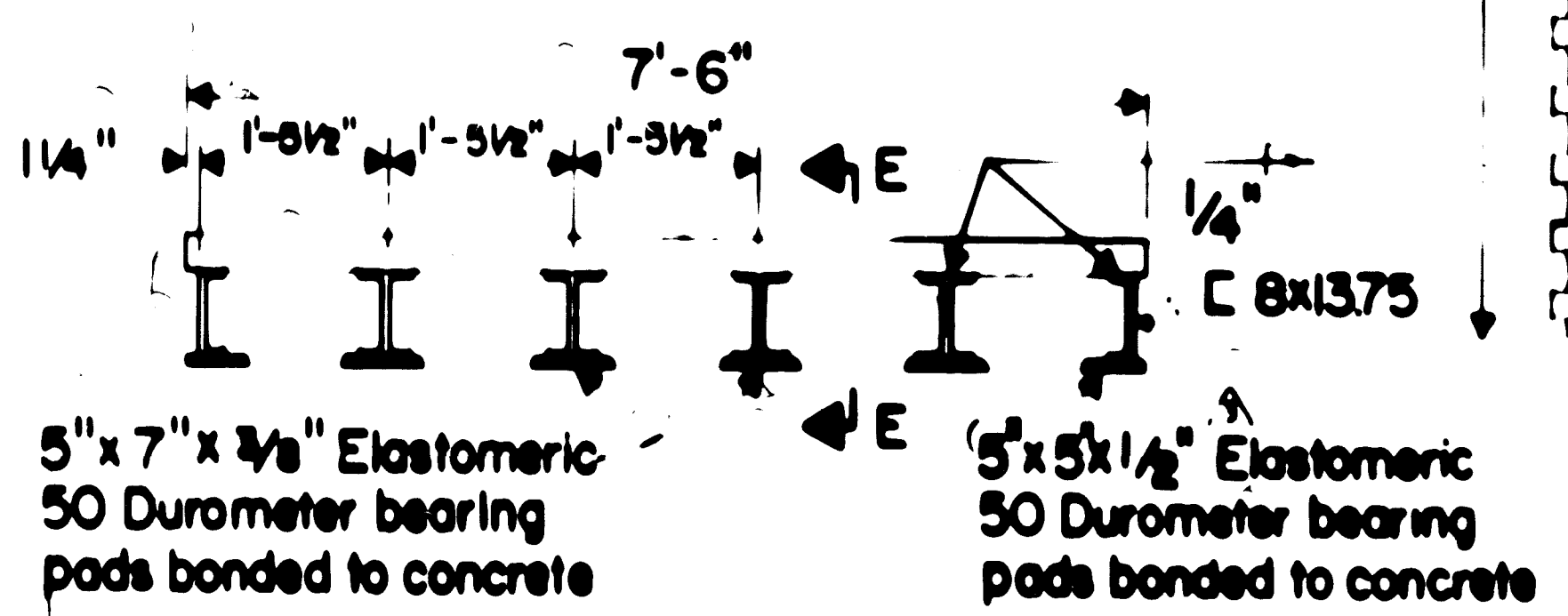
GRILLE UNIT DETAIL



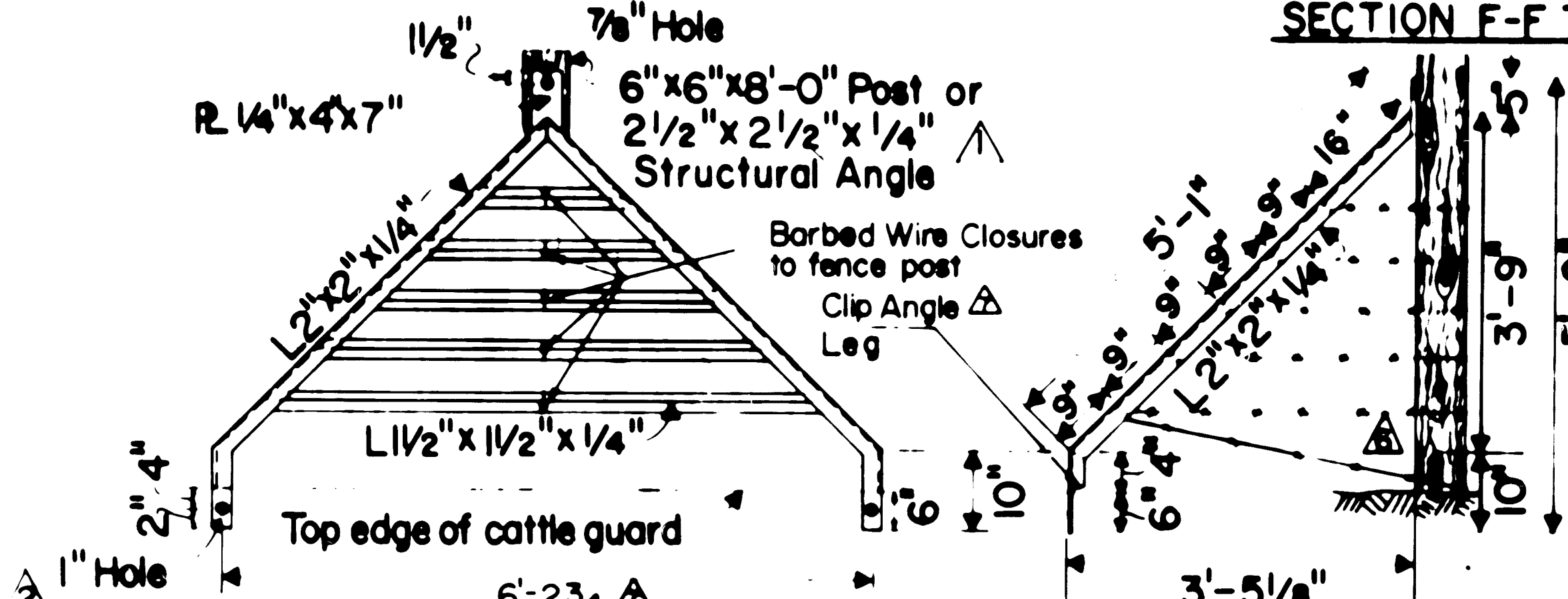
TIE BOLT DETAIL



SECTION F-F THRU KEYS

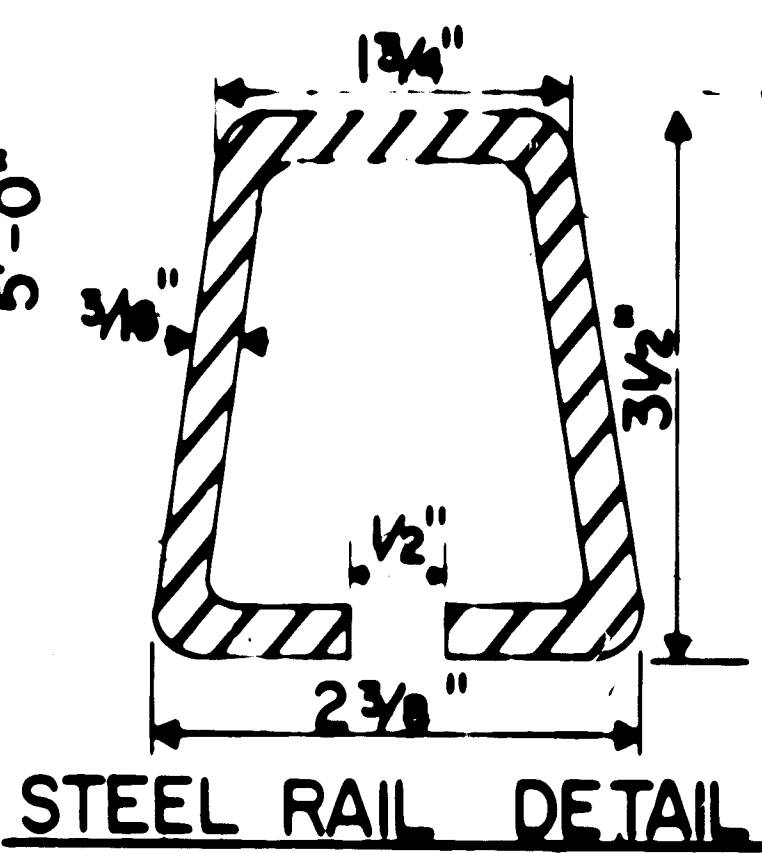


ELEVATION

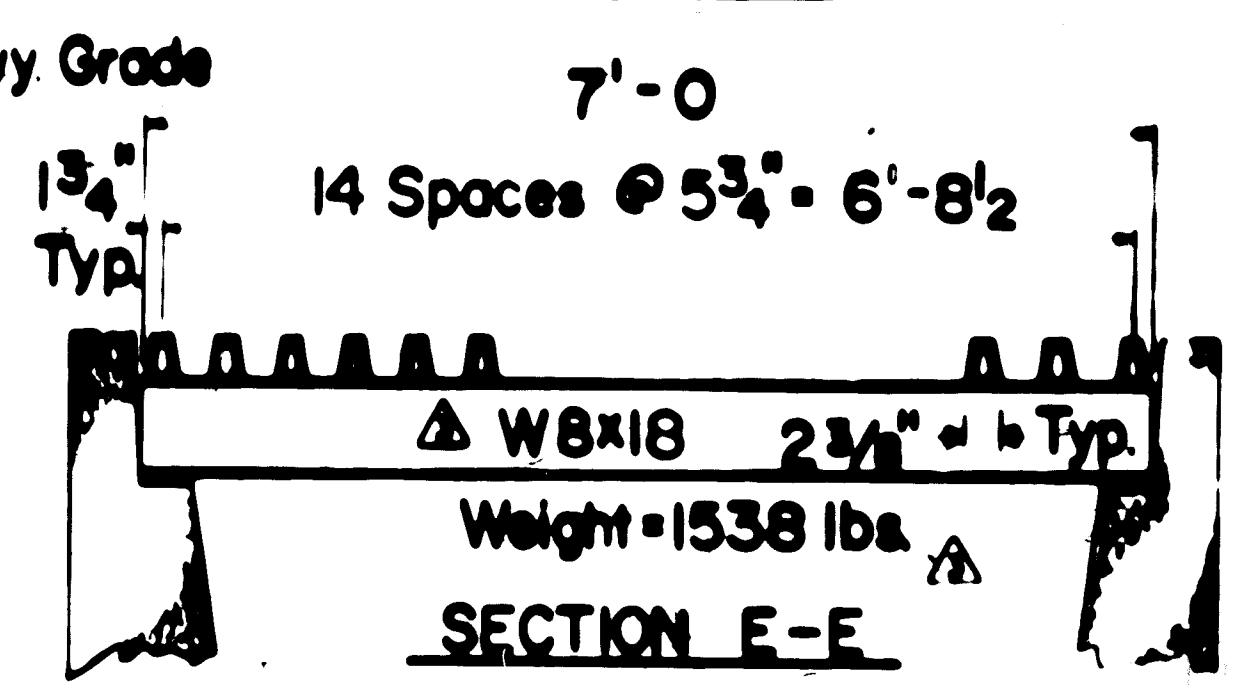


NOTE: Fastening of Warning Device - 6"x6" Post use 1-3/4"x8" hexbolt w/ hexnut & lockwasher, 2 1/2"x2 1/2"x1/4" Structural Angle use 1-3/4"x3" hexbolt w/ hexnut & lockwasher.

WARNING DEVICE



STEEL RAIL DETAIL



TRAFFIC GRILLE UNIT

FENCE TO WARNING DEVICE CLOSURE CHANGED SERIAL NUMBER ADD NOTE ON CLOSURE END SECTION UPDATE BEAM SIZE REMOVED GENERAL NOTE REVISION FOR CHANGE NOTICES	7-28-80 ADCC 12-17-80 D.R.D. 12-17-80 ADCC 2-13-81 J.A.H. 10-28-81 D.R.D. 10-28-81 J.A.H.
--	--

NEW MEXICO
STATE HIGHWAY DEPARTMENT

PRECAST
CONCRETE CATTLE GUARD

LAYOUT AND UPDATE BY: ADCC	APPROVAL RECOMMENDED CHECKED BY: F.B.77	DATE 6-6-77
CHECKED BY: S.A.G.	APPROVED ENGINEER OF DESIGN	DATE 6-6-77

SERIAL BCG-004-08

NOTE: Cattle guard is to be placed on roadway side of Right of Way fence, and on side of cross fence away from cattle, where possible.

Cattle Guard is symmetrical about $\frac{1}{2}$ of Roadway

Maximum Computed Footing Pressure = 1.3 Tons/ft²

Backfill to be compacted with mechanical tamper

Slope top and grid seats parallel to grade

FED. ROAD DIST. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO			

4" O.D. tubing shown for top mounting
5' 11" 7" 5' 11"

3" x 3" bolt with 1-cut washer, galv.
Two unit threaded ring wedge cinch anchor or approved equivalent
Base $\frac{1}{2}$ "
Set anchor in drilled hole

DETAIL FOR SETTING BASE PLATE

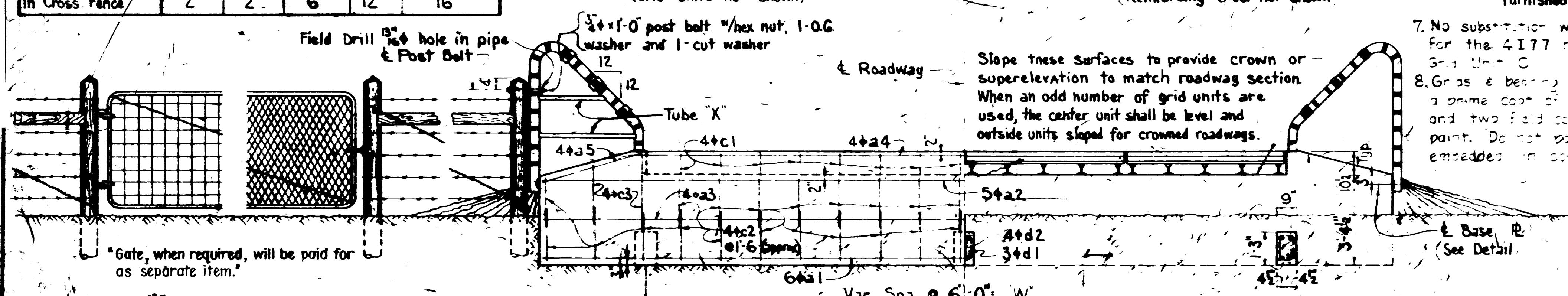
NOTE: Details shown are for wooden fence posts. Details are similar for metal fence posts.

TABLE A

INSTALLATION	WARNING DEVICE TYPE A each	TYPE B each	CROSSBARS each	CLAMPS each	3" x 3" BOLTS WITH CINCH ANCHORS each
In Right of Way Fence	2	2	6	12	16
In Cross Fence	2	2	6	12	16

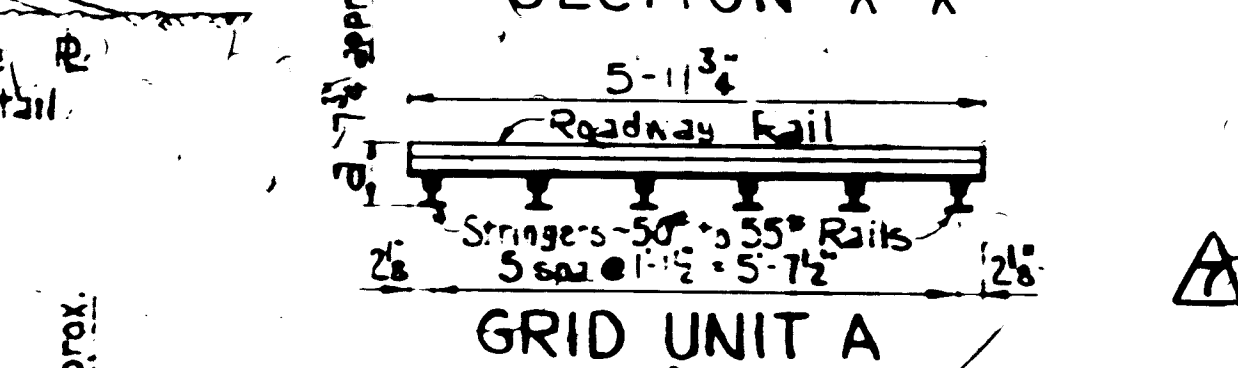
HALF PLAN RIGHT OF WAY FENCE INSTALLATION (Grid Units not shown)

HALF PLAN CROSS FENCE INSTALLATION (Reinforcing Steel not shown)

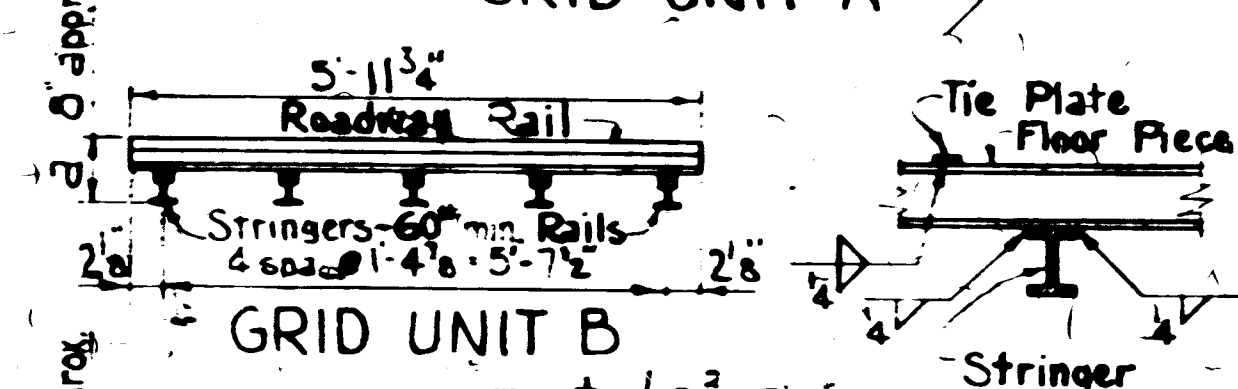


DETAIL OF BEARING PLATE FOR GRID UNITS
Plates may be furnished in lengths of at least 6 ft. Plates furnished full length W must be bent to match Rdwy. crown.

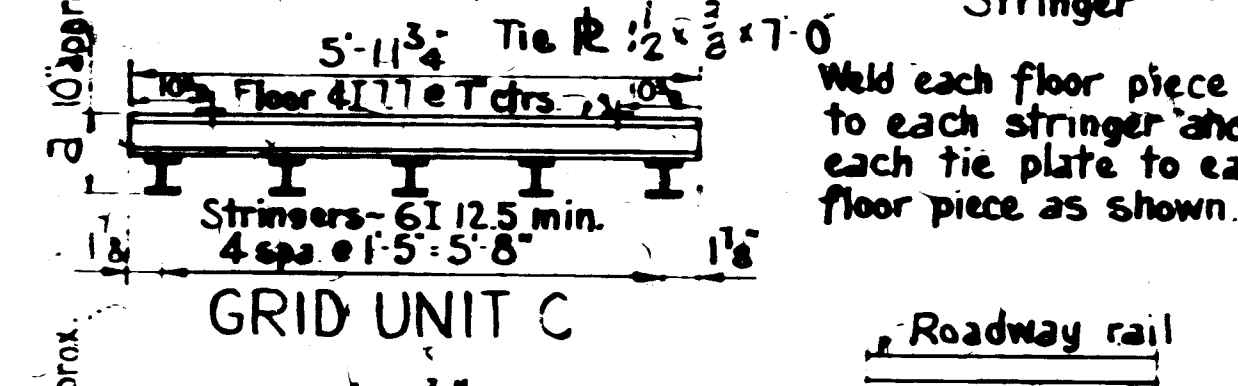
SECTION X-X



GRID UNIT A



GRID UNIT C



GRID UNIT D

HALF SECTION UNIT C HALF SECTION-TYPICAL FOR UNITS A, B & D

Dimension 'a' varies depending on size of stringers and roadway rails and is to be determined after grid unit is fabricated.

Grids must be fabricated so that bottoms of stringers are in a plane surface. Welding procedure to be arranged to accomplish this result.

DETAILS OF GRID UNITS

MATERIAL REQD FOR ONE CATTLE GUARD

CATTLE GUARD WIDTH W	CONCRETE CU. YDS.	REINF. STEEL LBS.	WARNING DEVICE EACH	GRID UNITS
12'-0"	9.73-0.056a	736		2
18'-0"	12.78-0.083a	971		3
24'-0"	15.82-0.111a	1206		4
30'-0"	18.86-0.139a	1441		5
36'-0"	21.91-0.167a	1675		6
42'-0"	24.95-0.194a	1910		7
48'-0"	27.92-0.222a	2145		8

1-Gate with hinges and catch, 2-3" x 10" bolts

a in formula for concrete quantity is "a" dimension shown on grid unit details in inches.

* Gate, when required, will be paid for as a separate item.

MATERIAL REQD. FOR ONE GRID UNIT

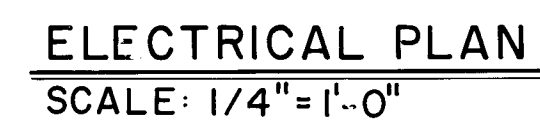
ITEM	UNIT A	UNIT B	UNIT C	UNIT D
Floor Pieces - Lin Ft.	77'-8"	77'-8"	77'-8"	77'-8"
Stringers - Lin Ft.	44'-3"	36'-10"	36'-10"	66'-4"
Tie Plates - Lin Ft.	None	None	16'-0"	None

GENERAL NOTES

- All material and workmanship to conform to N.M.S.H. Dept. Specifications. All concrete to be Class A. Reinforcing steel shall conform to ASTM Spec. A615, Grade 40. Railroad rails may be used but must be free from bends and in good condition.
- Details shown are to be modified as necessary to conform to the grade line and superlevation of the highway.
- Reinforcing bars over 30 ft. long may be spliced using a 20 diameter lap. Tabulated weights do not include laps.
- Aluminum members in warning devices shall conform to the following A.S.T.M. Specifications: B-429 Alloy 6061, temper T6 for forming; B-209 Alloy 6061, temper T6 for base plates. All welding to be done with a 5% silicon aluminum alloy shielded arc electrode.
- Cattle guard grids may be any of the units shown on the drawing. Each individual cattle guard must be provided with grids of identical type having the same weight of rails or steel members. Alternate types of grid units are shown to permit use of available material. No adjustment in the bid price will be allowed for rails of weights greater than the minimum. See Note 7.
- Warning devices to be striped with two coats of black paint conforming to the specifications. Stripes to be 2" wide at 8" centers as shown.

7. Update Gen. Note 4 A1 Alloy Specs.	(1-24-78) A.O.
6. Rev. Tie to Note 5	4-26-78 A.S.
5. Added Warning Device - R/W Fence	1-24-78 A.S.
4. Changed note for Gate, paid for as separate item	4-26-78 A.S.
3. Added Notes Clarifying Use of Gate	5-8-78 A.S.
2. No. of C2 bars & Rein. Steel Quant.	6-8-78 M.K.
1. CHANGED SERIAL NUMBER	8-8-78 A.S.

NEW MEXICO
STATE HIGHWAY DEPARTMENT
CONCRETE AND STEEL
CATTLE GUARD
WITH
ALUMINUM WARNING DEVICE
DRAWING NO. 1429 SHEET 23 OF 25



CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: SOUTH BROADWAY LANDFILL PETROLEUM LINE PROTECTION ELECTRICAL PLAN AND DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		7-2-82	Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		
DRAWING NO.	1429	MAP NO.	S-14	SHEET	OF
				24	25

PROJECT South Broadway Landfill Site

Depth in Feet	Graphical Log	Unified Soil Classification	RIG TYPE CME - 75	
			BORING TYPE 6 1/2" Hollow Stem Auger	
			REMARKS	VISUAL CLASSIFICATION
0		SM	NOTE: classifications by auger cuttings	SILTY SAND, predominantly fine, some gravel, nonplastic, light brown
10		SP		SAND, predominantly medium some gravel, nonplastic, brown
20		SP		SAND, predominantly fine, nonplastic, light brown
30		CL		SILTY CLAY, medium plasticity, brown
40				
50		SM		SILTY SAND, predominantly fine, some gravel, nonplastic, brown
55		SP		SAND, fine, nonplastic, light brown
60		SM		SILTY SAND, predominantly fine, nonplastic, brown
70				NOTE: occasional thin clay layers
80				
90		SP		SAND, predominantly fine, nonplastic, light brown
100				
110		CL		SANDY CLAY, medium plasticity, brown
115		SM		SILTY SAND, predominantly fine, some gravel, nonplastic brown
120		SP		SAND, fine, nonplastic light brown
130				
140		SP & GP		SAND & GRAVEL, predominantly fine, nonplastic, light brown
150				
155				
160		CL		SAND CLAY, medium plasticity, brown
165		SP		SAND, fine, nonplastic brown
170				
180				
190				
200			Stopped auger at 200'; no water encountered.	

NOTE:
THIS DRAWING WAS TAKEN FROM TEST DRILLING RESULTS SUBMITTED BY SERGEANT, HAUSKINS, AND BECKWITH 6/28/82

26 1429 2582

SOUTH BROADWAY SANITARY LANDFILL
TEST BORING LOG AT N-1,447,000; E-381,000

7-8

C. TOMLINSON
T. SANCHEZ