

9

R. T. M. M. 390 09

FINAL APR 11 1961

1/4

04 x 11 11 x 18

3

| FED. ROAD DIST. NO. | STATE | STATE PROJECT NO. | SHEET NO. |
|---------------------|--------|-------------------|-----------|
| 6 | TEXAS | C 359-4-5 | 1 |
| STATE DIST. NO. | COUNTY | STATE CONTROL NO. | PROJECT |
| 16 | KARNES | 359-4-5 | ST. 119 |

INDEX OF SHEETS

| SHEET NO. | DESCRIPTION |
|-----------|--------------------------------------|
| 1 | TITLE SHEET |
| 2 | TYPICAL SECTIONS |
| 3 | GENERAL NOTES AND SPECIFICATION DATA |
| 4 | ESTIMATE AND QUANTITY |
| 5 | SWC-61 |
| 6-7 | BW-61 (118/2) |

**STATE OF TEXAS
STATE HIGHWAY DEPARTMENT**

**PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT**

(FINAL PLANS)

STATE PROJECT
C 359-4-5

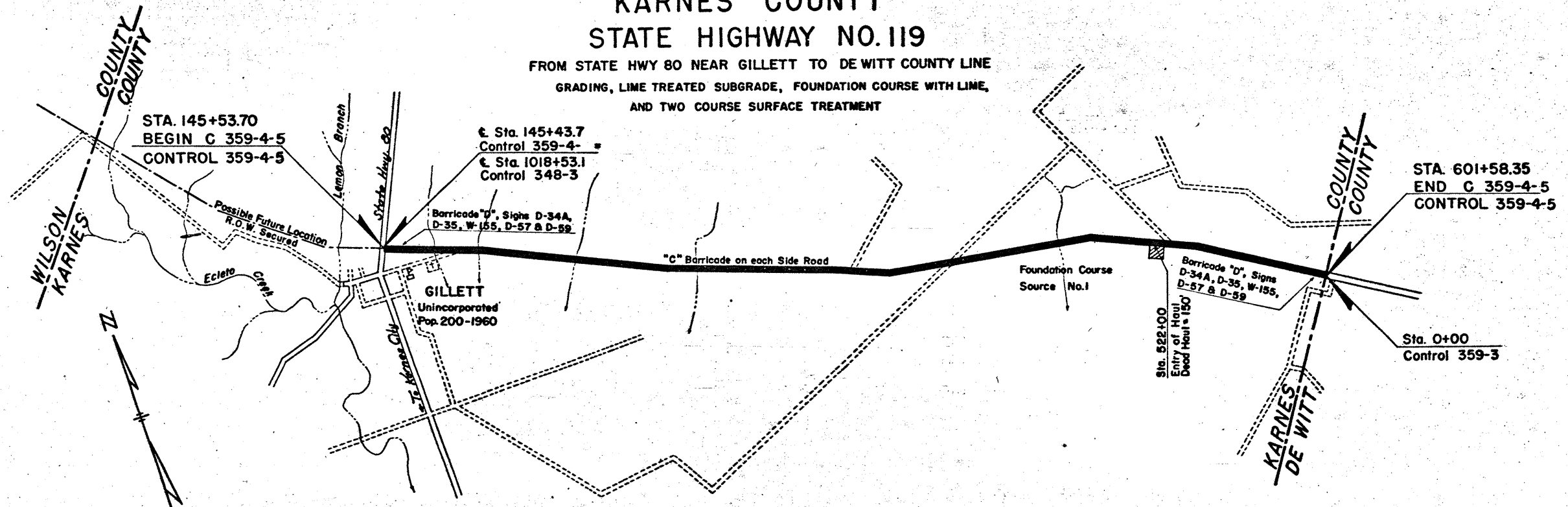
PLAN: 1 IN. = 100 FT.
PROFILE: 1 IN. HOR. = 100 FT., 1 IN. VERT. = 10 FT.
CROSS-SECTIONS: 1 IN. HOR. AND VERT. = 5 FT.
OTHERS AS NOTED.

NET LENGTH OF PROJECT=45,604.65 FT.=8.637 MI.

**KARNES COUNTY
STATE HIGHWAY NO. 119**

FROM STATE HWY 80 NEAR GILLETT TO DE WITT COUNTY LINE
GRADING, LIME TREATED SUBGRADE, FOUNDATION COURSE WITH LIME,
AND TWO COURSE SURFACE TREATMENT

Plans corrected as actually constructed
James T. Chapman
James T. Chapman - Sr. Res. Engineer



NO RAILROAD CROSSINGS
NO EQUATIONS
NO EXCEPTIONS

LAYOUT SCALE: 1 IN. = 2640 FT.

STATE HIGHWAY DEPARTMENT

CORRECT: *10/20/61*

James T. Chapman
RECOMMENDED ENGINEER

RECOMMENDED FOR APPROVAL: *10-23-61*

APPROVED: _____
DISTRICT ENGINEER

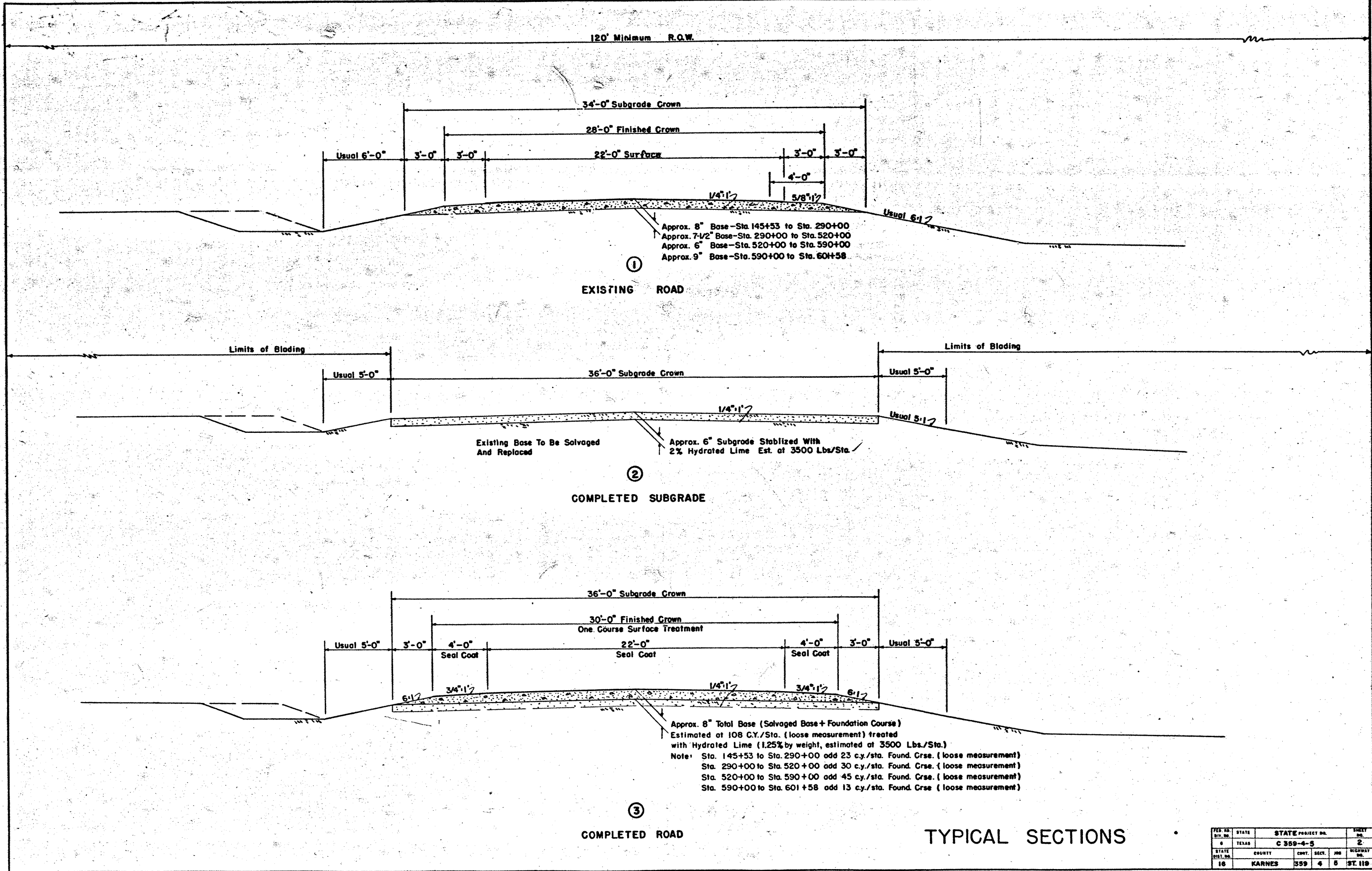
ENGINEER OF HIGHWAY DESIGN

COUNTY: Karnes
PROJ. NO.: C 359-4-5
HWT. NO. 5.11
LETTING DATE: 12-19-61
DATE ACCEPTED: 3-21-62

CONVENTIONAL SIGNS

| | |
|------------------------|-----------|
| STATE OR NATIONAL LINE | — — — — — |
| CITY OR VILLAGE LINE | — — — — — |
| COUNTY LINE | — — — — — |
| BASE OR SURVEY LINE | — — — — — |
| RIGHT OF WAY LINE | — — — — — |
| RIGHT OF WAY MARKERS | — — — — — |
| FENCE LINE | — — — — — |
| RAILROAD | — — — — — |
| TRAVELLED WAY | — — — — — |
| CULVERT OR BRIDGE | — — — — — |
| POWER LINE | — — — — — |
| TELEGRAPH OR TELEPHONE | — — — — — |

390 09



| | | | |
|-------------------|--------|-------------------|-------------|
| FED. RD. DIV. NO. | STATE | STATE PROJECT NO. | SHEET NO. |
| 6 | TEXAS | C 559-4-5 | 2 |
| STATE DIST. NO. | COUNTY | COMT. SECT. JWB | HIGHWAY NO. |
| 16 | KARNES | 559 4 5 | ST. 119 |

**SPECIFICATION DATA
(320) ONE COURSE SURFACE TREATMENT**

| ITEM | APPLICATION | TOTAL QUANTITY |
|---------------------------|-------------|----------------|
| Asphalt, Type | OA-175 | |
| Asphalt, Rate (Gal./S.Y.) | 0.25 | 38,450 |
| Aggregate, Type | PB | |
| Aggregate, Grade | 2 | |
| Aggregate, Rate (CY/S.Y.) | 1:85 | 1,810 |

30' One Crse. Surf. Treat. 152,020 S.Y.
 Intersections 1,700 S.Y.
 Total 153,720 S.Y.

**SPECIFICATION DATA
(316) SEAL COAT**

| ITEM | APPLICATION | TOTAL QUANTITY |
|---------------------------|-------------|----------------|
| Asphalt, Type | OA-175 | |
| Asphalt, Rate (Gal./S.Y.) | 0.20 | 22,300 |
| Aggregate, Type | PB | |
| Aggregate, Grade | 5 | |
| Aggregate, Rate (CY/S.Y.) | 1:140 | 798 |

22' Seal Coat 111,480 S.Y.
 Total 111,480 S.Y.

**SPECIFICATION DATA
(316) SHOULDER SEAL**

| ITEM | APPLICATION | TOTAL QUANTITY |
|---------------------------|-------------|----------------|
| Asphalt, Type | OA-175 | |
| Asphalt, Rate (Gal./S.Y.) | 0.20 | 8,450 |
| Aggregate, Type | A | |
| Aggregate, Grade | 5 | |
| Aggregate, Rate (CY/S.Y.) | 1:140 | 302 |

4' Shoulder Seal 40,540 S.Y.
 Intersections 1,700 S.Y.
 Total 42,240 S.Y.

GENERAL NOTES

The use of a mechanical road mixer shall be required to obtain proper mixing of the subgrade and base material and lime. After mixing with mechanical mixer, the subgrade and base material shall be windrowed prior to compaction in lifts as specified. It is intended that the base material shall be placed and surfaced with the surface treatments in increments of length to preclude the necessity of reworking the lime treated base material after curing has been completed. If conditions are such that the lime treated base material must be scarified and refinished, additional lime in slurry form, in amounts as determined by the Engineer, shall be added as directed by the Engineer.

All Rolling required to process "Foundation Course" shall be paid for under the Item 215- Rolling (Grid).

All curves shall be superelevated and widened in accordance with SWG- G1, or as directed by the Engineer.

All obstructions within limits of right of way to be removed by the County unless otherwise noted.

In those instances where fixed features require, the governing slopes indicated herein may be varied from between the limits and to the extent determined by the Engineer.

SPECIFICATION DATA

ITEM 246-FOUNDATION COURSE MIXED WITH SALVAGED BASE AND LIME

| GRADING REQUIREMENTS | | SOIL BINDER REQUIREMENTS | |
|---------------------------|--------|---------------------------------------|----|
| Retained on 3" inch sieve | 0-5% | The liquid limit shall not exceed | 45 |
| Retained on 40 mesh sieve | 25-85% | The plasticity index shall not exceed | 15 |

BASIS OF ESTIMATE

| ITEM NO | DESCRIPTION | RATE/UNIT | NUMBER OF UNITS | QUANTITY | UNIT |
|---------|-------------------------------------|--------------|-----------------|----------|------|
| 150 | Blading (Subgrade) | 1 Hr/3 Sta | 456.05 | 152 | Hr |
| 204 | Sprinkling (Subgrade) | 3.5 MG/Sta | 456.05 | 1,596 | MG |
| 204 | Sprinkling (Salv Base & Found Crse) | 9 MG/Sta | 456.05 | 4,105 | MG |
| 210 | Rolling (Salv Base & Found Crse) | 1 Hr/4 Sta | 456.05 | 114 | Hr |
| 210 | Rolling (Surfacing) | 8 Hr/Mi | 8.6 | 69 | Hr |
| 211 | Rolling (Subgrade) | 1 Hr/Sta | 456.05 | 456 | Hr |
| 211 | Rolling (Salv Base & Found Crse) | 1 Hr/3 Sta | 456.05 | 152 | Hr |
| 213 | Rolling (Subgrade) | 2 Hr/3 Sta | 456.05 | 304 | Hr |
| 213 | Rolling (Salv Base & Found Crse) | 1.5 Hr/Sta | 456.05 | 684 | Hr |
| 213 | Rolling (Surfacing) | 8 Hr/Mi | 8.6 | 69 | Hr |
| 215 | Rolling (Salv Base & Found Crse) | 1 Hr/4 Sta | 456.05 | 114 | Hr |
| 260 | Lime (Approx 2% by weight) | 3500 Lbs/Sta | 456.05 | 798 | Ton |
| 262 | Lime (Approx 1.25 % by weight) | 3500 Lbs/Sta | 456.05 | 798 | Ton |

**GENERAL NOTES
AND
SPECIFICATION DATA**

| | | | |
|--------------------|--------|-------------------|-----------------|
| FED. RD. DIST. NO. | STATE | STATE PROJECT NO. | SHEET NO. |
| 16 | KANSAS | C 359-4-8 | 3 |
| STATE DIST. NO. | COUNTY | CONTR. SECT. | JOB HIGHWAY NO. |
| 16 | KARNES | 389 4 | B ST. NO. |

**SUMMARY OF HAUL
FOUNDATION COURSE**

| PAY QUARTER NO. | QUARTER LIMITS | | FOUND. COURSE C.Y. | ADD. QTR. MILE HAUL C.Y. |
|-----------------|----------------|---------|--------------------|--------------------------|
| | STA. | TO STA. | | |
| 28 | 145+53 | 153+90 | 263 | 7,364 |
| 27 | 153+90 | 167+10 | 304 | 6,208 |
| 26 | 167+10 | 180+30 | 328 | 6,528 |
| 25 | 180+30 | 193+50 | 310 | 7,750 |
| 24 | 193+50 | 206+70 | 316 | 7,584 |
| 23 | 206+70 | 219+90 | 304 | 6,992 |
| 22 | 219+90 | 233+10 | 304 | 6,688 |
| 21 | 233+10 | 246+30 | 328 | 6,888 |
| 20 | 246+30 | 259+50 | 304 | 6,080 |
| 19 | 259+50 | 272+70 | 310 | 5,890 |
| 18 | 272+70 | 285+90 | 304 | 5,472 |
| 17 | 285+90 | 299+10 | 379 | 6,443 |
| 16 | 299+10 | 312+30 | 402 | 6,432 |
| 15 | 312+30 | 325+50 | 396 | 5,940 |
| 14 | 325+50 | 338+70 | 396 | 5,544 |
| 13 | 338+70 | 351+90 | 396 | 5,148 |
| 12 | 351+90 | 365+10 | 420 | 5,040 |
| 11 | 365+10 | 378+30 | 414 | 4,554 |
| 10 | 378+30 | 391+50 | 396 | 3,960 |
| 9 | 391+50 | 404+70 | 414 | 3,728 |
| 8 | 404+70 | 417+90 | 396 | 3,168 |
| 7 | 417+90 | 431+10 | 432 | 3,024 |
| 6 | 431+10 | 444+30 | 396 | 2,376 |
| 5 | 444+30 | 457+50 | 408 | 2,040 |
| 4 | 457+50 | 470+70 | 396 | 1,584 |
| 3 | 470+70 | 483+90 | 396 | 1,188 |
| 2 | 483+90 | 497+10 | 402 | 804 |
| 1 | 497+10 | 510+30 | 396 | 396 |
| 0 | 510+30 | 533+70 | 932 | 0 |
| 1 | 533+70 | 546+90 | 594 | 594 |
| 2 | 546+90 | 560+10 | 600 | 1,200 |
| 3 | 560+10 | 573+30 | 594 | 1,782 |
| 4 | 573+30 | 586+50 | 594 | 2,376 |
| 5 | 586+50 | 599+70 | 284 | 1,420 |
| 6 | 599+70 | 601+58 | 24 | 144 |
| TOTALS | | | 13,832 | 146,327 |

Source No. 1 - P. A. Seidel - Royalty Involved
 150 Feet Dead Haul to Sta. 522+00
 Clearing & Grubbing = 1.5 Ac.
 Stripping = 4,000. C.Y.

ESTIMATE SUMMARY

| RURAL CONTROL 359-4-5 GRADING, BASE & SURFING | | ALT. | ITEM-CODE | | | DESCRIPTION | UNIT | TOTAL | |
|---|-------|------|-----------|-----------|----------|-------------------------------|------|----------|---------|
| EST. | FINAL | | ITEM NO. | DESC CODE | S.P. NO. | | | EST. | FINAL |
| 1.5 | | | 102 | 001 | 003 | Clear and Grub | Ac | 1.5 | 1.5 |
| 152. | | | 150 | 002 | | Blading (Ord Comp) | Hr | 152. | 234. |
| 4,000. | | | 200 | 001 | | Stripping | CY | 4,000. | 2,708. |
| 5,701. | | | 204 | 001 | | Sprinkling | MG | 5,701. | 3,776.8 |
| 183. | | | 210 | 001 | | Rolling (Flat Wheel) | Hr | 183. | 100. |
| 608. | | | 211 | 001 | | Rolling (Tamping) | Hr | 608. | 587. |
| 1,057. | | | 213 | 001 | 001 | Rolling (Light Pneum Tire) | Hr | 1,057. | 1,225. |
| 114. | | | 215 | 001 | | Rolling (Grid) | Hr | 114. | 82. |
| 13,832. | | | 246 | 001 | | Fnd Crse (Ord Comp) | CY | 13,832. | 13,476. |
| 146,327. | | | 246 | 005 | | Addl Qtr Mi Haul | CY | 146,327. | 143,472 |
| 456.05 | | | 252 | 001 | | Salv and Repl Base (Ord Comp) | Sto | 456.05 | 456.05 |
| 798. | | | 260 | 003 | | Lime (Ty A or B) | Ton | 798. | 799.85 |
| 184,200. | | | 260 | 004 | | Lime Treat Subgr (Ord Comp) | SY | 184,200. | 183,070 |
| 798. | | | 262 | 003 | | Lime (Ty A or B) | Ton | 798. | 803,555 |
| 302. | | | 316 | 005 | | Aggr (Ty A Gr 5) | CY | 302. | 315. |
| 796. | | | 316 | 041 | | Aggr (Ty PB Gr 5) | CY | 796. | 820 |
| 30,750. | | | 316 | 123 | | Asph (0A-175) | Gal | 30,750. | 32,250 |
| 1,810. | | | 320 | 038 | | Aggr (Ty PB Gr 2) | CY | 1,810. | 1,805 |
| 38,450. | | | 320 | 123 | | Asph (0A-175) | Gal | 38,450. | 37,610 |

Aggregate used in Shoulder Seal shall contrast distinctly from that used in roadway.

ESTIMATE & QUANTITY SHEET

| | | | |
|--------------------|--------|-------------------|-------------|
| FED. RD. DIST. NO. | STATE | STATE PROJECT NO. | SHEET NO. |
| 6 | TEXAS | C 359-4-5 | 4 |
| STATE DIST. NO. | COUNTY | CONTR. SECT. NO. | ROADWAY NO. |
| 10 | KARNES | 359 4 5 | ST. 119 |