| B.P.R. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 1 | 74 |

# STATE OF MAINE
## STATE HIGHWAY COMMISSION

PLANS

# CARIBOU ~ CONNOR

## AROOSTOOK COUNTY
## MAINE FEDERAL AID PRIMARY
## PROJECT NO. F-050-2(6)

TOTAL LENGTH 3.391 MILES

SCALES
- PLAN 1 IN. = 50 FT.
- PROFILE HOR. 1 IN. = 50 FT. / VER. 1 IN. = 5 FT.
- CROSS SECTIONS 1 IN. = 5 FT.

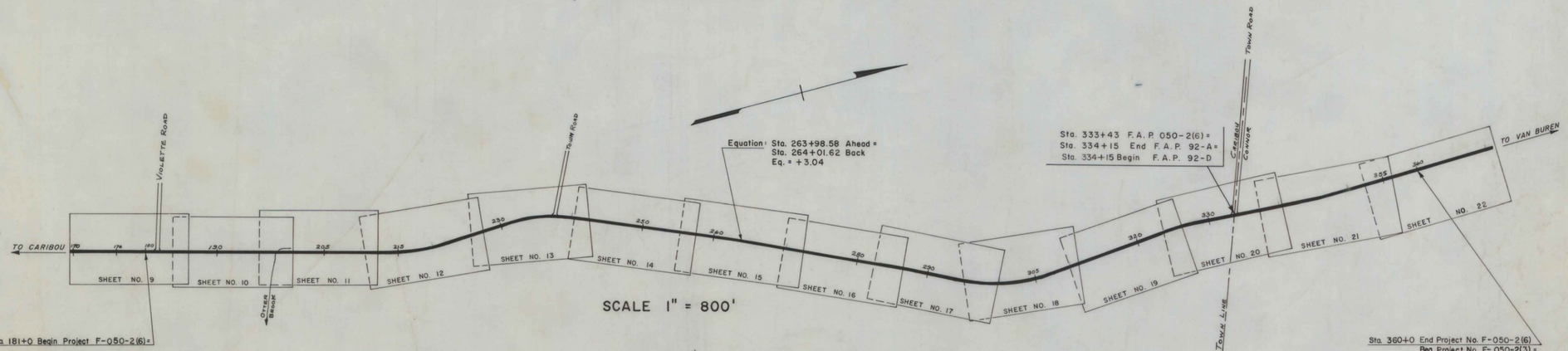
Microfilm #9 on Reel 131

### CONVENTIONAL SIGNS

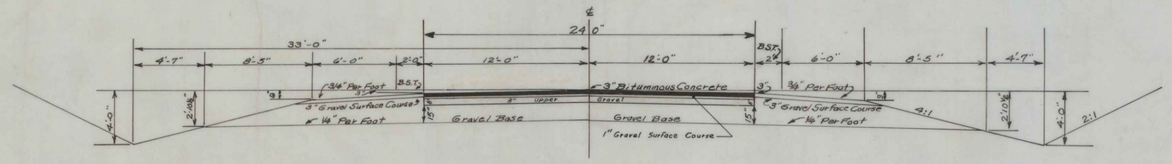
STATE OR NATIONAL LINE
COUNTY LINE
TOWN LINE
UNFENCED PROPERTY
FENCE
RIGHT OF WAY LINE
TRAVELED WAY
RAILROAD
RETAINING WALL
SURVEY LINE
CULVERT
DROP INLET
TROLLEY POLE
POWER POLE
TEL. POLE
MARSH
TREES
STONE WALL

### INDEX OF SHEETS

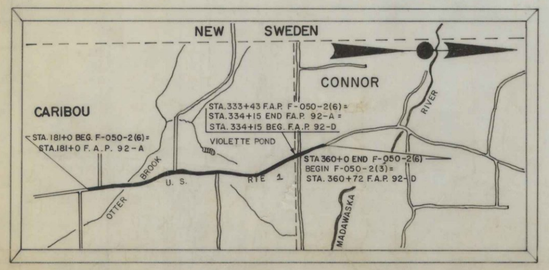

| | | |
|---|---|---|
| SHEET NO. 1 | TITLE PAGE | STA. 181+00 to STA. 360+00 |
| SHEET NO. 2 | TYPICAL SECTIONS | |
| SHEET NO. 3-4 | QUANTITIES | |
| SHEET NO. 5-8 | STANDARD DETAILS | |
| SHEET NO. 9-22 | PLAN AND PROFILE | STA. 181+00 to STA. 360+00 |
| SHEET NO. 23-74 | CROSS-SECTIONS | STA. 181+00 to STA. 360+00 |
| SHEET NO. | BRIDGES | STA. |
| SHEET NO. | SPECIAL DETAILS | |


SCALE 1" = 800'




Typical Section




A PORTION OF AROOSTOOK COUNTY SCALE 1" = 1 MILE

NOTE:
ALL WORK CONTEMPLATED UNDER THIS CONTRACT TO BE GOVERNED BY AND IN CONFORMITY WITH THE SPECIFICATIONS ADOPTED JANUARY 1956 EXCEPT AS MODIFIED ON THESE PLANS AND IN THE SPECIAL PROVISIONS

### TRAFFIC DATA

A.D.T. - - 1960 - - 1500
A.D.T. - - 1980 - - 2100
D.H.V. - - - - - 315
T. - - - - - - 12%
D. - - - - - - 65%
V. - - - M.P.H. - - 60
Except V. - - - M.P.H. - - 55 Sta. 257+00 to Sta. 266+00
Except V. - - - M.P.H. - - 55 Sta. 284+50 to Sta. 291+50

APPROVED:
MAINE STATE HIGHWAY COMMISSION — DATE
CHAIRMAN — Oct. 28, 1959
R. Leon Williams — Oct. 28, 1959
CHIEF ENGINEER — Oct. 28, 1959

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
REGION 1

APPROVED:

DIVISION ENGINEER — DATE

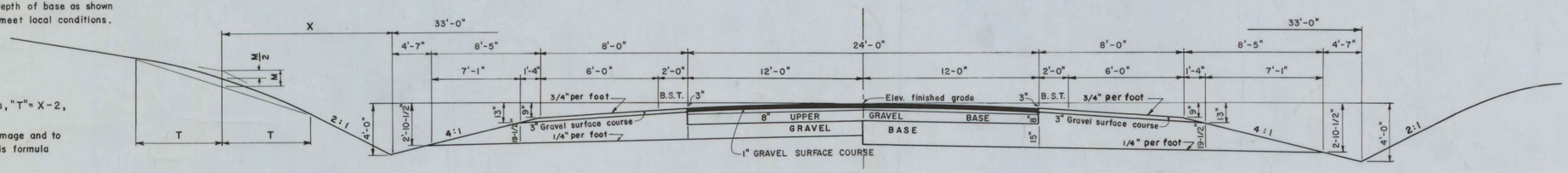
| B.P.R. REGION NO. | STATE | FEDERAL AID PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 2 | 74 |

# 3" BITUMINOUS CONCRETE SURFACE COURSE

For all sections depth of ditch depends on local conditions. Depth of base as shown may be changed to meet local conditions.

Where "X" = 7 or less, "T" = X - 2, otherwise "T" = 5.

To avoid property damage and to save shade trees, this formula may be modified.

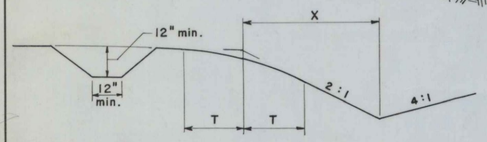



## NORMAL

" Gravel Base Course (under shoulder) = cu. yds. per 100 lin. ft.

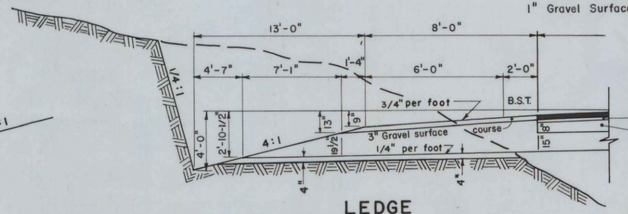
3" Gravel Surface Course = 8.02 cu. yds. per 100 lin. ft.
24"-19½" Gravel Base Course (under shoulder) = 84.12 cu. yds. per 100 lin. ft.

8" Upper Gravel Base Course, 24' wide = 59.26 cu. yds. per 100 lin. ft.
15" Gravel Base Course, 24' wide = 111.11 cu. yds. per 100 lin. ft.
" Gravel Base Course, wide = cu. yds. per 100 lin. ft.
1" Gravel Surface Course, 24' wide = 11.11 cu. yds. per 100 lin. ft.

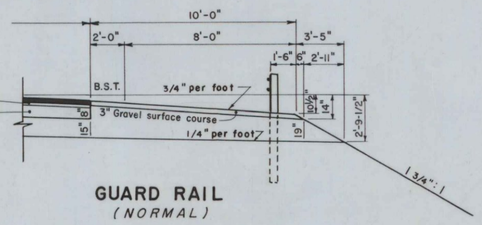



## BERM DITCH

Construct berm ditch where necessary. Where a 2:1 slope is not practical, use a 1½:1 slope.




## LEDGE




## GUARD RAIL
*(NORMAL)*

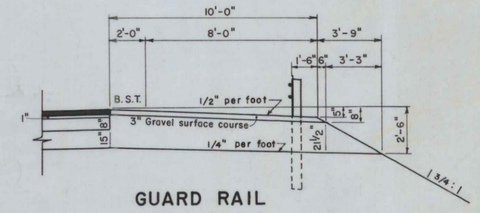
3" Gravel Surface Course = 9.68 cu. yds. per 100 lin. ft.
24"-19" Gravel Base Course (under shoulder) = 77.69 cu. yds. per 100 lin. ft.

*NOTE:*

CROWNS FOR NORMAL SECTIONS FOR PAVEMENT WIDTHS ONLY

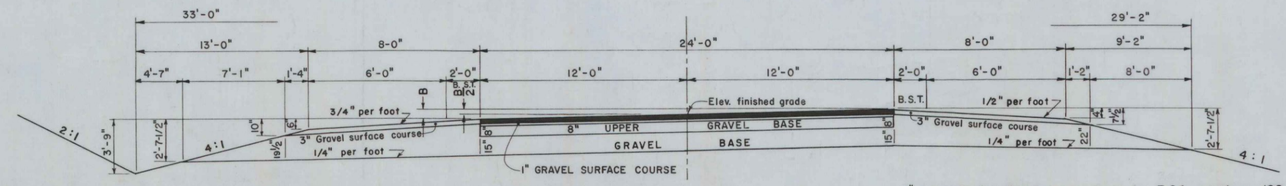
Top Gravel Base
Top Upper Gravel Base } *Straight Crown*

Top 1 inch Gravel Surface Course
Top of Each Bit. Conc. Surface Course } *Parabolic Crown*




## GUARD RAIL
*(SUPERELEVATED)*

3" Gravel Surface Course = 9.10 cu. yds. per 100 lin. ft.
24"-21-1/2" Gravel Base Course (under shoulder) = 84.07 cu. yds. per 100 lin. ft.

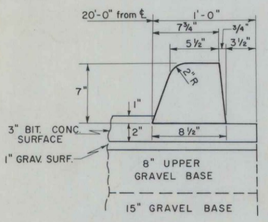



## SUPERELEVATED

3" Gravel Surface Course = 7.84 cu. yds. per 100 lin. ft.
24"-22" Gravel Base Course (under shoulder) = 91.98 cu. yds. per 100 lin. ft.

8" Upper Gravel Base Course, 24' wide = 59.26 cu. yds. per 100 lin. ft.
1" Gravel Surface Course, 24' wide = 7.41 cu. yds. per 100 lin. ft.
1" Gravel Surface Course, 33' wide = 10.19 cu. yds. per 100 lin. ft.
1" Gravel Surface Course, 42' wide = 12.96 cu. yds. per 100 lin. ft.

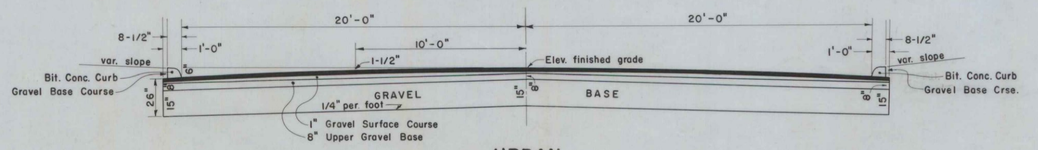
Superelevation shall be as specified in A.A.S.H.O. Policy of Geometric Design of Rural Highways. (e) The maximum superelevation shall not exceed 0.08' per foot width of pavement. All curves shall have full superelevation at the first 50' station occuring a minimum distance of 50' after the P.C. and a minimum distance of 50' before the P.T. When superelevation exceeds 3/4" per foot, inside shoulder shall have same slope as pavement.




## BITUMINOUS CONCRETE CURB

233+52 - 242+00 Rt.
263+30 - 289+48 Rt.
265+00 - 298+25 Lt.
330+25 - 335+98 Rt.
332+00 - 333+95 Lt.
346+00 - 349+75 Lt.
*EXCEPT AT DRIVEWAYS*

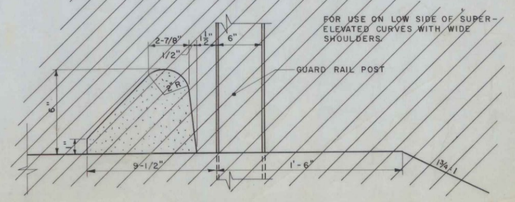
NOTE:
Any shimming of pavement necessary for placing Bituminous Concrete Curb at catch basin will be incidental to Item 931-8, Bituminous Concrete Curb.




## URBAN

8" Upper Gravel Base Course, 42' wide = 103.70 cu. yds. per 100 lin. ft.
15" Gravel Base Course, 42' wide = *195.70 cu. yds. per 100 lin. ft.
1" Gravel Surface Course, 42' wide = 25.93 cu. yds. per 100 lin. ft.
* Includes Quan. Behind Curb
8" Upper Gravel Base Course 33' wide = 81.48 cu. yds. per 100 lin. ft.
15" Gravel Base Course 33' wide = 153.41 cu. yds. per 100 lin. ft.
1" Gravel Surface Course 33' wide = 18.52 cu. yds. per 100 lin. ft.

## BITUMINOUS CONCRETE CURB



| B.P.R. DIV. NO. | STATE | PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 3 | 74 |

# DRAINAGE

| STATION | A.C.C.M.P. LEFT EXTENSION SIZE | A.C.C.M.P. LEFT EXTENSION LENGTH | R.C.P. SIZE | R.C.P. LENGTH | A.C.C.M.P. RIGHT EXTENSION SIZE | A.C.C.M.P. RIGHT EXTENSION LENGTH | A.C.C.M.P. SIZE | A.C.C.M.P. LENGTH | C.M.P. SIZE | C.M.P. LENGTH | CATCH BASINS A | CATCH BASINS B | CATCH BASINS C | CATCH BASINS 15 | CATCH BASINS 14 | DROP INLETS A | DROP INLETS B | MAN-HOLES A | MAN-HOLES B | UNDERDRAINS TYPE A | UNDERDRAINS TYPE B | UNDERDRAINS TYPE C SIZE | UNDERDRAINS TYPE C LENGTH | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 341+67 to 345+0 | | | | | | | | | | | | | | | | | | | | | 333 | | | |
| 343+70 Lt | | | | | | | | | 18" | 30' | | | | | | | | | | | | | | |
| 344+75 Lt | | | | | | | | | 18" | 30' | | | | | | | | | | | | | | |
| 345+50 to 345+98 Lt | | | | | | | 15" | 54' | | | | | | | | | | | | | | | | |
| 346+00 | | | | | | | | | | | | | | | 1 | | | | | | | | | Catch Basin Lt - Type "H" |
| 346+02 to 347+98 Lt | | | | | | | | | | | | | | | | | | | | | | 15" | 196 | |
| 348+0 Lt | | | | | | | | | | | | | | | 1 | | | | | | | | | Catch Basin Lt Type "H" |
| 348+02 to 350+26 Lt | | | | | | | | | | | | | | | | | | | | | 225 | | | |
| 350+39 | 24" | 16' | 24" | 52' | 24" | 22' | | | | | | | | | | | | | | | | | | Class III - Plus Connector |
| 359+30 Lt | | | | | | | | | 15" | 30' | | | | | | | | | | | | | | |
| 224+74 - 224+10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 225+34 Lt | | | | | | | | | 24" | 30' | | | | | | | | | | | 1836 | | | |
| 225+26 Rt | | | | | | | | | 18" | 30' | | | | | | | | | | | | | | |
| 269+66 | | | 12" | 34' | 12" | 24' | | | | | | | | | 2 | | | | | | | | | Class III C.B Type "H." Rt. & Lt. |
| 269+67 - 271+65 | | | | | | | | | | | | | | | | | | | | | | 15" | 198 | |
| 232+10 Rt | | | | | | | | | 15" | 30' | | | | | | | | | | | | | | |
| 232+15 Rt | | | | | | | | | 15" | 30' | | | | | | | | | | | | | | |
| 301+25 Lt | | | | | | | | | 15" | 30' | | | | | | | | | | | | | | |
| 333+10 - 337+50 Lt | | | | | | | | | | | | | | | | | | | | | 440 | | | |
| 337+02 - 337+50 Rt | | | | | | | 24" | 62' | | | | | | | | | | | | | | | | |
| 33340 Lt. | | | | | | | | | 30" | 20' | | | | | | | | | | | | | | |

# ESTIMATED QUANTITIES

| ITEM NO. | DESCRIPTION | QUANTITY | UNIT |
|---|---|---|---|
| 201-5 | Clearing | 3.962 | Acres |
| 202-5 | Removing Trees (3"-24") | 48 | Each |
| 202-6 | Removing Trees over 24" | 6 | Each |
| 203-9 | Earth Excavation | 70,192 | Cu.Yds. |
| 203-10 | Rock Excavation | 4783 | Cu.Yds. |
| 203-12 | Muck Excavation | 3866 | Cu.Yds. |
| 204-10 | Structural Earth Excavation - Drainage | 6791 | Cu.Yds. |
| | Structural Rock Excavation - Drainage | 408.8 | Cu.Yds. |
| 204-16 | Structural Earth Excavation Channel | 2655 | Cu.Yds. |
| 205-8 | Common Borrow | 18014 | Cu.Yds. |
| 302-7 | Gravel Base Course - In Place Measurement | 66803 | Cu.Yds. |
| 309-5 | Stripping Pits | 13,784 | Cu.Yds. |
| 310-6 | Sprinkling | 469 | Units |
| 311-6 | Calcium Chloride | 66.25 | Tons. |
| 401-11 | Gravel Surface Course | 5571 | Cu.Yds. |
| 404-29 | Bit. Concrete Surface Course, Type "B" | 3946.75 | Tons |
| 501-7 | Road Tar | 3797 | Gals. |
| 508-8 | Sand Filled Emulsified Asphalt Sealing Compound (Black) | 1290 | Sq.Yds. |
| 601-11 | 15" In. C.M.P. | 913 | Lin.Ft. |
| 601-12 | 18 In C.M.P. | 878 | Lin.Ft. |
| 601-14 | 24 In C.M.P. | 223 | Lin.Ft. |
| 601-16 | 36 In C.M.P. | 51 | Lin.Ft. |
| 602-10 | 12 In. ACCMP | 582 | Lin.Ft. |
| 602-11 | 15 In. ACCMP | 871 | Lin.Ft. |
| 602-12 | 18 In. ACCMP | 481 | Lin.Ft. |
| 602-14 | 24 In. ACCMP | 623 | Lin.Ft. |
| 602-15 | 30 In. ACCMP | 121 | Lin.Ft. |
| 602-16 | 36 In. ACCMP | 38 | Lin.Ft. |
| 602-17 | 42 In. ACCMP | 40 | Lin.Ft. |
| 603-10 | 12 In. R.C.P. Class III | 288 | Lin.Ft. |
| 603-11 | 15 In. R.C.P. Class III | 80 | Lin.Ft. |
| 603-13 | 24 In. R.C.P. Class III | 584 | Lin.Ft. |
| 603-14 | 30 In. R.C.P. Class III | 56 | Lin.Ft. |
| 603-15 | 36 In. R.C.P. Class III | 72 | Lin.Ft. |
| 603-16 | 42 In. R.C.P. Class III | 64 | Lin.Ft. |
| 603-23 | 30 In. R.C.P. Class IV | 76 | Lin.Ft. |
| 605-26 | Catch Basins Type "F" | 5 | Each |
| 605-28 | Catch Basins Type "H" | 27.5 | Each |
| 606-10 | Underdrain Type "B" | 8507 | Lin.Ft. |
| 606-11 | 12 Inch Underdrain Type "C" | 668 | Lin.Ft. |
| 606-12 | 15 Inch Underdrain Type "C" | 975 | Lin.Ft. |
| 606-16 | Underdrain Outlets | 160 | Lin.Ft. |
| 704-16 | 10'-8" Span, 6'-11" Rise Structural Plate Pipe Arch | 80 | Lin.Ft. |
| 905-25 | Guard Rail Type "C" | 1632 | Lin.Ft. |
| 905-32 | Anchorages for Type "C" Guard Rail | 12 | Each. |
| 905-35 | Guard Posts Type "A" | 130 | Each |
| 907-10 | Hand Laid Riprap | 202 | Cu.Yds. |
| 908-9 | Loam Borrow | 2029 | Cu.Yds. |
| 909-7 | Sodding | 11472 | Sq.Yds. |
| 909-9 | Jute Matting - Weave "H" | 718.9 | Sq.Yds. |
| 910-12 | Seeding. Method No 1 | 57.6 | Units |
| 910-13 | Seeding Method No 2 | 228.7 | Units |
| 912-7 | Hay Mulch | 11.28 | Tons |
| 913-7 | Asphalt Mulch Binder | 580 | Gals. |
| 914-6 | Project Markers | 2 | Each |
| 915-6 | Right of Way Monuments | 57 | Each |
| 916-6 | Underdrain Outlet Markers | 6 | |
| 917-6 | Traffic Officers | 559 | M.H. |
| 919-7 | Metal Sluice | 80 | Lin.Ft. |
| 926-9 | Removal or Razing Buildings No 3 | 1 | Each |
| 926-11 | Removal or Razing Buildings No 5 | 1 | Each |
| 926-14 | Removal or Razing Buildings No 8 | 1 | Each |
| 931-8 | Bituminous Concrete Curb | 7954 | Lin.Ft. |

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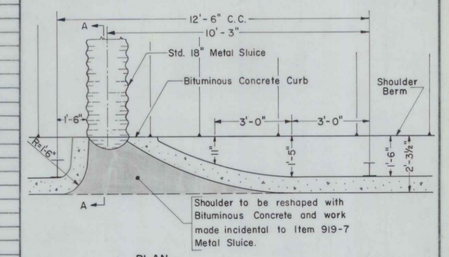
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 4 | 74 |

# DRAINAGE

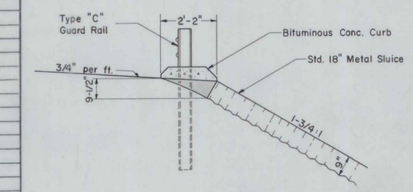
| STATION | A.C.C.M.P. LEFT EXTENSION SIZE | A.C.C.M.P. LEFT EXTENSION LENGTH | R.C.P. SIZE | R.C.P. LENGTH | A.C.C.M.P. RIGHT EXTENSION SIZE | A.C.C.M.P. RIGHT EXTENSION LENGTH | A.C.C.M.P. SIZE | A.C.C.M.P. LENGTH | C.M.P. SIZE | C.M.P. LENGTH | CATCH BASINS A | B | C | F | H | DROP INLETS A | B | MAN-HOLES A | B | UNDERDRAINS TYPE A | TYPE B | TYPE C SIZE | TYPE C LENGTH | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 181+47.5 | 36" | 20 | 36" | 64' | 36 | 18 | | | | | | | | | | | | | | | | | | | | | | | Class III Plus Connector |
| 180+50 to 181+86 Lt | | | | | | | | | | | | | | | | | | | | | 1136 | | | | | | | | |
| 181+50 | | | | | | | 18' | 40' | | | | | | | | | | | | | | | | | | | | | Across Town Road |
| 186+06 | 24" | 16' | 24" | 48' | 24" | 16' | | | | | | | | | | | | | | | | | | | | | | | Class III Plus Connector |
| 181+77 Lt | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| 191+86 | 24" | 16' | 24" | 48' | 24" | 18' | | | | | | | | | | | | | | | | | | | | | | | Class III Plus Connector |
| 192+20 Lt | | | | | | | | | 15" | 30' | | | | | | | | | | | | | | | | | | | |
| 201+0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 10'-8"x6'-11 x88' St Plate Pipe Arch |
| 203+70 Rt | | | | | | | | | 15" | 30' | | | | | | | | | | | | | | | | | | | Bottom & Corner Plates-8 Ea - Top Plates 10' Ea. |
| 203+35 Rt | | | | | | | | | 15" | 30' | | | | | | | | | | | | | | | | | | | |
| 214+0 to 215+0 Lt | | | | | | | | | | | | | | | | | | | | | 100 | | | | | | | | Underdrain Outlet. |
| 215+00 to 218+50 Lt | | | | | | | | | | | | | | | | | | | | | 350 | | | | | | | | |
| 228+0 | | | | | | | | | 24 | 30' | | | | | | | | | | | | | | | | | | | |
| 215+45 Lt | | | | | | | | | 15" | 30' | | | | | | | | | | | | | | | | | | | |
| 218+62 | 24" | 20' | 24" | 40 | 24" | 26' | | | | | | | | | | | | | | | | | | | | | | | Class III Plus Connector |
| 218+62 to 224+00 Lt | | | | | | | | | | | | | | | | | | | | | 538 | | | | | | | | |
| 219+20 Lt | | | | | | | | | 15" | 30' | | | | | | | | | | | | | | | | | | | |
| 219+80 Lt | | | | | | | | | 15" | 62 | | | | | | | | | | | | | | | | | | | |
| 224+74 | 24" | 18' | 24" | 40 | 24" | 22' | | | | | | | | | | | | | | | | | | | | | | | Class III Plus Connector |
| 226+12 to 228+48 | | | | | | | | | 18" | 236' | | | | | | | | | | | | | | | | | | | |
| 229+00 Rt | | | | | | | | | 18" | 30' | | | | | | | | | | | | | | | | | | | |
| 228+50 | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| 229+73 Lt | | | | | | | | | 24" | 30' | | | | | | | | | | | | | | | | | | | |
| 229+90 Rt | | | | | | | | | 18" | 30' | | | | | | | | | | | | | | | | | | | |
| 232+00 to 233+48 Rt | | | | | | | 15" | 150 | | | | | | | | | | | | | | | | | | | | | |
| 233+50 Rt | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| 233+52 - 236+48 Rt | | | | | | | 15" | 296' | | | | | | | | | | | | | | | | | | | | | |
| 236+50 Rt | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| 236+52 to 239+48 Rt | | | | | | | 12" | 296 | | | | | | | | | | | | | | | | | | | | | |
| 238+61 Lt | | | | | | | | | 18" | 36' | | | | | | | | | | | | | | | | | | | |
| 239+50 Rt | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| 242+50 Rt | | | | | | | | | 36" | 30' | | | | | | | | | | | | | | | | | | | Field Road - 150±Rt of ℄ |
| 243+14.8 | 24" | 24' | 24" | 56 | 24 | 16 | | | | | | | | | | | | | | | | | | | | | | | Class III Plus Connector |
| 248+74 Lt | | | | | | | | | 18" | 52" | | | | | | | | | | | | | | | | | | | |
| 248+31 Rt | | | | | | | | | 24" | 30' | | | | | | | | | | | | | | | | | | | |
| 249+60 Rt | | | | | | | | | 24 | 30' | | | | | | | | | | | | | | | | | | | |
| 252+50 | 24" | 24' | 24" | 60' | 24" | 22 | | | | | | | | | | | | | | | | | | | | | | | Class III Plus Connector |
| 252+30 Rt | | | | | | | | | 18" | 30' | | | | | | | | | | | | | | | | | | | |
| 265+50 | | | 12" | 34 | | | | | | | | | | | 2 | | | | | | | | | | | | | | Class III C.B. Type "H" Lt & Rt |
| 265+52 to 268+67 Lt | | | | | | | | | | | | | | | | | | | | | | | 12" | 315' | | | | | |
| 268+67 to 269+63 Lt | | | | | | | | | | | | | | | | | | | | | | | 15" | 96' | | | | | |
| 271+67 Lt | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| 271+67 Rt | | | 24" | 40' | | | 24" | 30' | | | | | | | | | | | | | | | | | | | | | |
| 271+63 to 272+48 Lt | | | | | | | | | | | | | | | | | | | | | | | 12" | 79' | | | | | |
| 272+50 | | | 12" | 34' | | | | | | | | | | | 2 | | | | | | | | | | | | | | Class III CB - Type "H" Lt & Rt. |
| 272+52 to 274+90 Lt | | | | | | | | | | | | | | | | | | | | | 288 | | | | | | | | |
| 275+03 | | | 24" | 34' | | | 24" | 24' | | | | | | | 2 | | | | | | | | | | | | | | Class III CB Type "H" Lt & Rt |
| 275+05 to 277+78 Lt | | | | | | | | | | | | | | | | | | | | | | | 15" | 273' | | | | | |
| 277+80 | | | 12" | 34' | | | | | | | | | | | 2 | | | | | | | | | | | | | | Class III C.B. Type "H" Lt & Rt |
| 277+82 to 280+48 Lt | | | | | | | | | | | | | | | | | | | | | | | 12" | 266 | | | | | |
| 280+50 | | | 12" | 34' | | | | | | | | | | | 2 | | | | | | | | | | | | | | Class III C.B. Type "H" Lt & Rt. |
| 280+52 to 282+88 Lt | | | | | | | 12" | 236' | | | | | | | | | | | | | | | | | | | | | |
| 282+90 | | | 12 | 34' | | | | | | | | | | | 2 | | | | | | | | | | | | | | Class III CB Type "H" Lt. & Rt. |
| 289+50 | | | 12 | 34 | | | | | | | | | | | 2 | | | | | | | | | | | | | | Class III CB. Type "H" Lt. & Rt. |
| 289+50 to 290+0 Rt | | | | | | | 15" | 58 | | | | | | | | | | | | | | | | | | | | | |
| 290+60 Rt | | | | | | | | | 18 | 30' | | | | | | | | | | | | | | | | | | | |
| 295+37 | 30" | 26' | 30' | 68' | 30' | 26' | | | | | | | | | | | | | | | | | | | | | | | Class IV Plus Connector |
| 295+80 Rt | | | | | | | | | 18 | 80 | | | | | | | | | | | | | | | | | | | |
| 298+0 to 298+60 Rt | | | | | | | | | | | | | | | | | | | | | | | | 60 | | | | | Underdrain Outlet. |
| 298+58 to 304+40 Rt | | | | | | | | | | | | | | | | | | | | | 582 | | | | | | | | |
| 299+90 Rt & Lt | | | | | | | | | 15 | 60 | | | | | | | | | | | | | | | | | | | |
| 304+26 | 24" | 30' | 24" | 44' | 24' | 28' | | | | | | | | | | | | | | | | | | | | | | | Class III Plus Connector |
| 304+26 to 305+00 Lt | | | | | | | 15" | 74' | | | | | | | | | | | | | | | | | | | | | |
| 305+00 to 307+12 Lt | | | | | | | | | | | | | | | | | | | | | | | 15" | 212 | | | | | |
| 307+14 Lt | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | Catch Basin Lt Type "F" |
| 309+60 Rt | | | | | | | | | 15 | 30' | | | | | | | | | | | | | | | | | | | |
| 319+60 to 321+00 Rt | | | | | | | | | 15" | 140' | | | | | | | | | | | | | | | | | | | |
| 321+20 to 322+20 Lt | | | | | | | | | 15" | 100' | | | | | | | | | | | | | | | | | | | |
| 322+75 to 323+11 Lt | | | | | | | | | 15" | 36' | | | | | | | | | | | | | | | | | | | |
| 323+30 | 24" | 14' | 24" | 52' | 24" | 16' | | | | | | | | | | | | | | | | | | | | | | | Class III Plus Connector |
| 323+50 to 333+03 Lt | | | | | | | | | | | | | | | | | | | | | 953 | | | | | | | | |
| 327+50 to 328+76 Lt | | | | | | | | | 18 | 126' | | | | | | | | | | | | | | | | | | | |
| 330+0 Lt | | | | | | | | | 18 | 30' | | | | 1 | | | | | | | | | | | | | | | Catch Basin Rt Type "F" |
| 330+20 Lt | | | | | | | | | 18 | 50 | | | | | | | | | | | | | | | | | | | |
| 330+02 to 331+98 Rt | | | | | | | 15 | 196' | | | | | | | | | | | | | | | | | | | | | |
| 332+0 | | | 15" | 54 | | | | | | | | | | 1 | 1 | | | | | | | | | | | | | | Class III C.B. Lt Type "F" Catch Basin Rt Type "H" |
| 330+02 to 333+03 Rt | | | | | | | 18 | 101 | | | | | | | | | | | | | | | | | | | | | |
| 333+08 | | | 12" | 34 | | | | | | | | | | | 2 | | | | | | | | | | | | | | Class III C.B Lt & Rt Type "H" |
| 333+07 to 336+0 Rt | | | | | | | 18 | 293' | | | | | | | | | | | | | | | | | | | | | |
| 337+0 Rt | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | Catch Basin Rt Type "H" |
| 336+02 to 336+98 Rt | | | | | | | 24 | 98 | | | | | | | | | | | | | | | | | | | | | |
| 337+53 | 30" | 20' | 30" | 48' | 30" | 24 | | | | | | | | | | | | | | | | | | | | | | | Class III Plus Connector |
| 337+60 to 341+65 Lt | | | | | | | | | | | | | | | | | | | | | 425 | | | | | | | | |
| 340+05 Lt | | | | | | | | | 15" | 36' | | | | | | | | | | | | | | | | | | | |
| 341+66 | 42" | 20' | 42" | 56 | 42" | 18" | | | | | | | | | | | | | | | | | | | | | | | Class III Plus Connector |

# ESTIMATED QUANTITIES

| ITEM NO | DESCRIPTION | QUANTITY | UNIT |
|---|---|---|---|

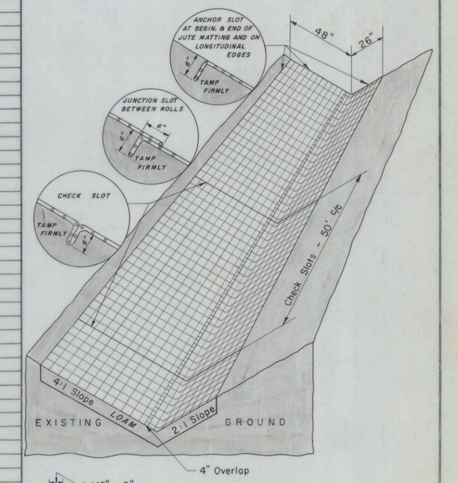


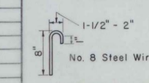

PLAN




SECTION A-A

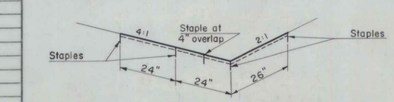
SLUICE ENTRANCE DETAIL




WIRE STAPLE

NOTE:
Staple spacing at 3' c/c along Matting except at 4" overlap which shall be at 1½" c/c.

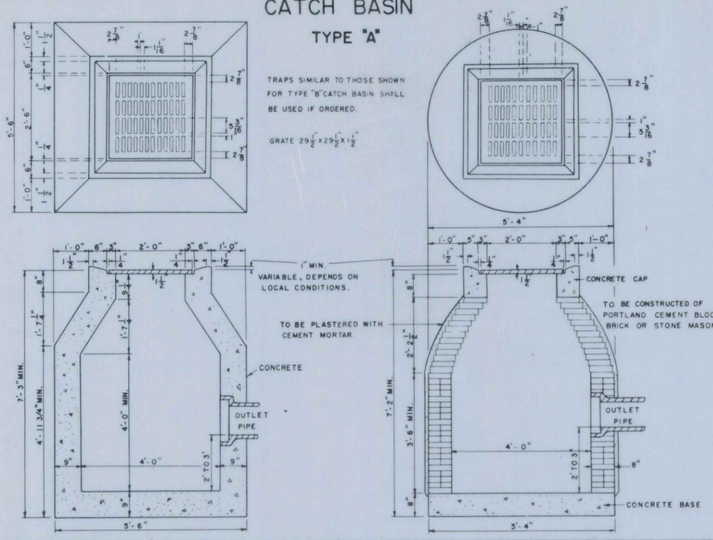



JUTE MATTING - DITCH SECTION

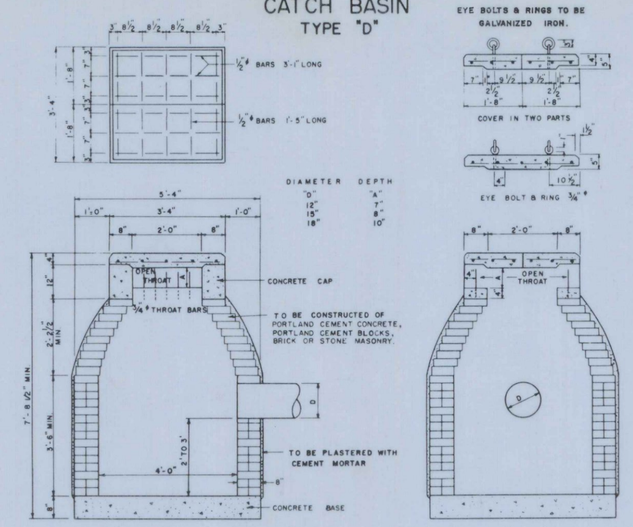
F-050-2(6)

| B P R REG. NO | STATE | PROJECT NUMBER | SHEET NO | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 5 | 74 |

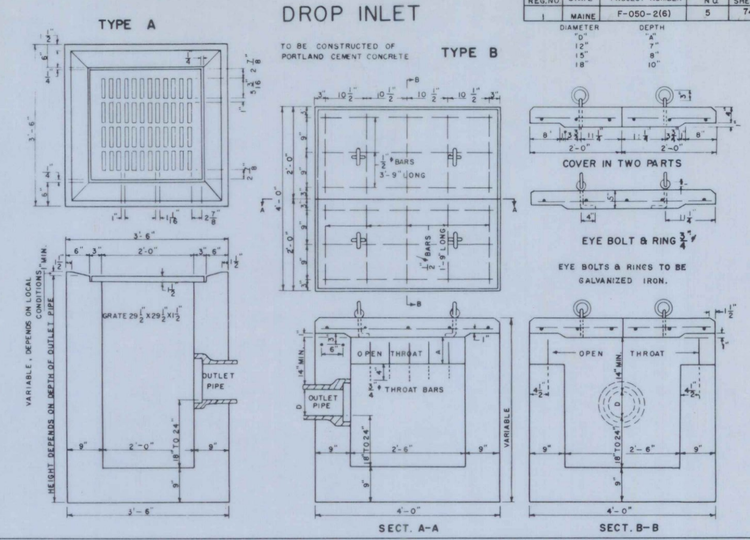
## CATCH BASIN TYPE "A"



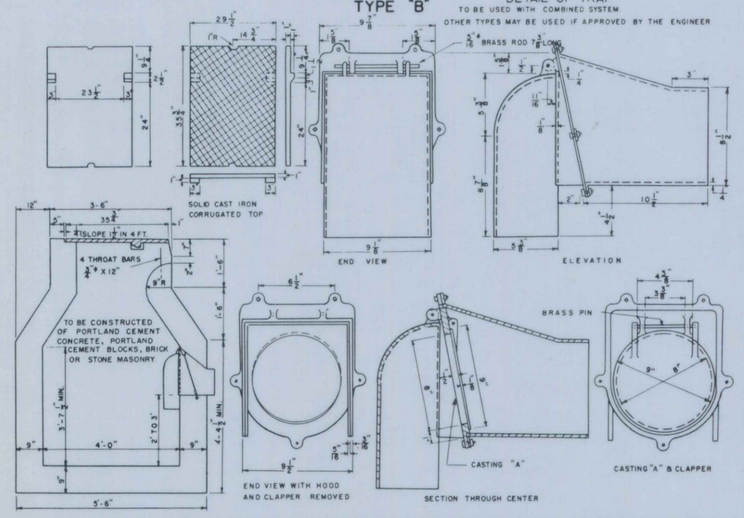

## CATCH BASIN TYPE "D"




## DROP INLET



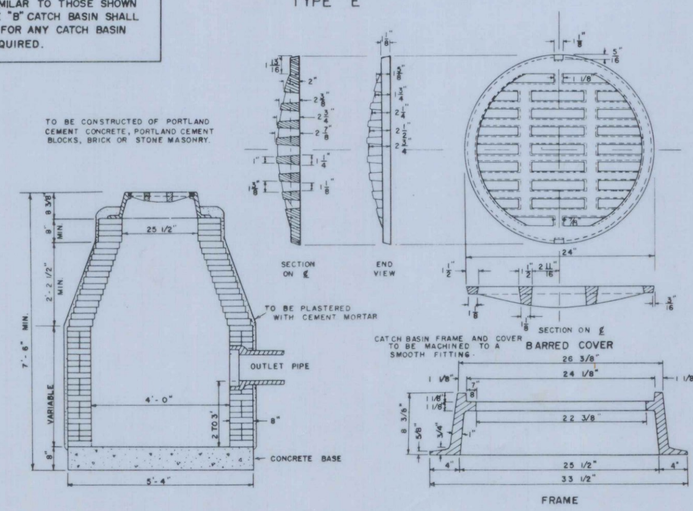

## CATCH BASIN TYPE "B"



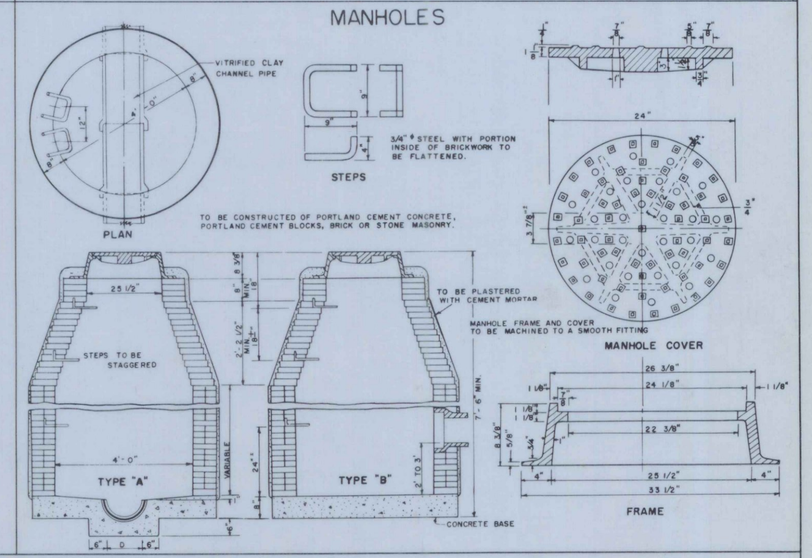

NOTE

TRAPS SIMILAR TO THOSE SHOWN FOR TYPE "B" CATCH BASIN SHALL BE USED FOR ANY CATCH BASIN WHEN REQUIRED.

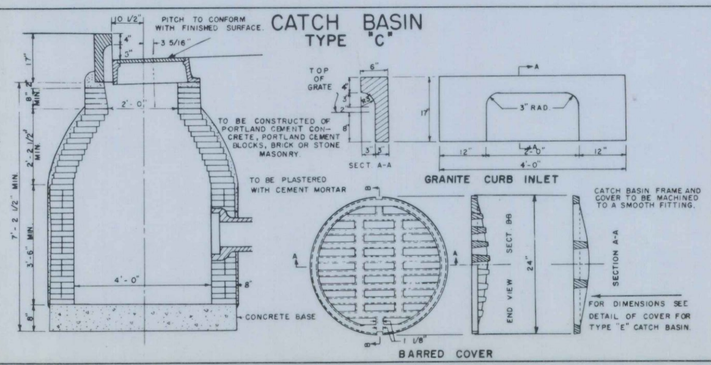
## CATCH BASIN TYPE "E"

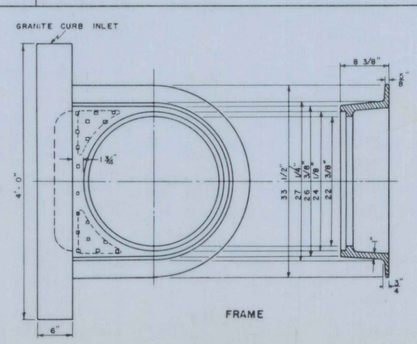



## MANHOLES

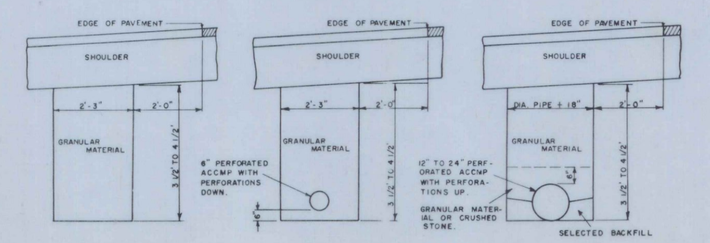



## CATCH BASIN TYPE "C"




## UNDERDRAIN




NOTE:

ALL CATCH BASINS AND MANHOLES CONSTRUCTED OF PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY SHALL BE CYLINDRICAL IN SHAPE.

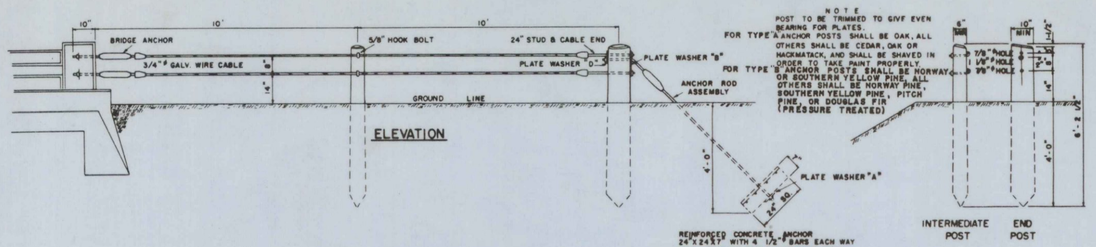
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

# STANDARD DETAILS

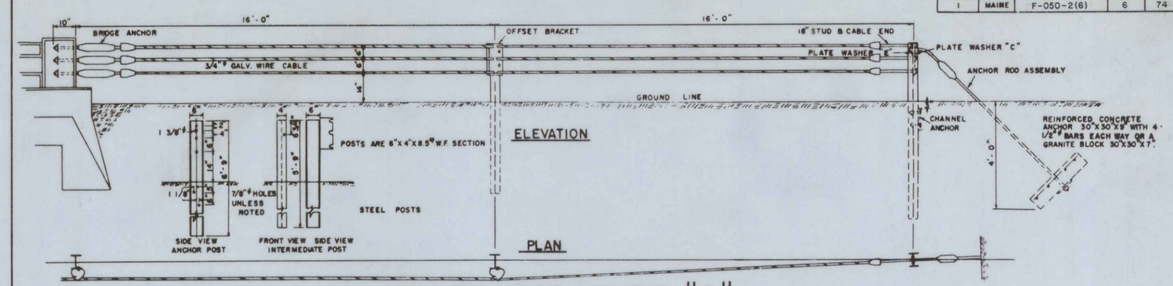
CATCH BASINS, MANHOLES, DROP INLETS AND UNDERDRAINS

1

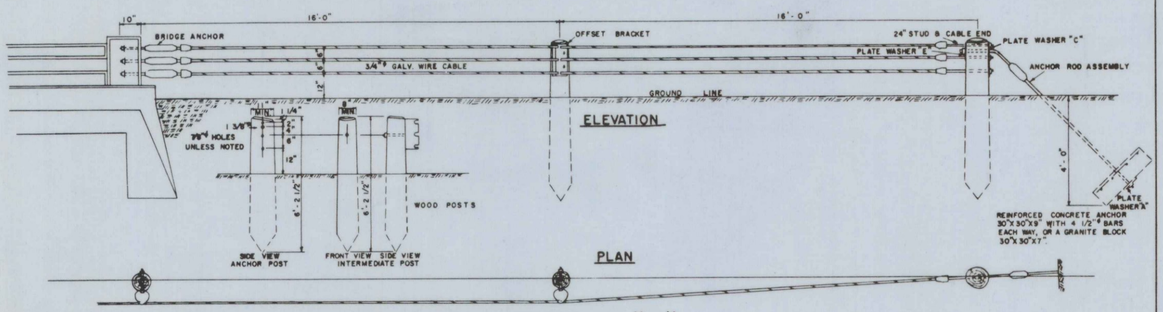
| B.P.R. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 6 | 74 |



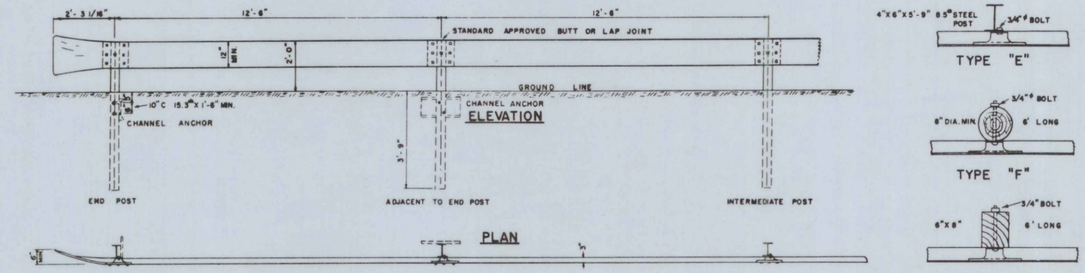

GUARD RAIL TYPE "A" & "B"



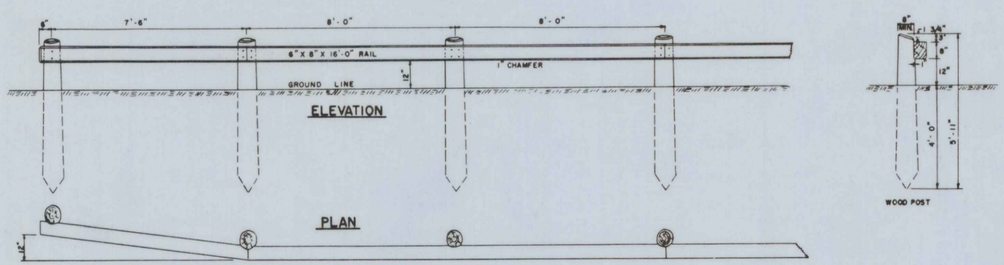

GUARD RAIL TYPE "C"



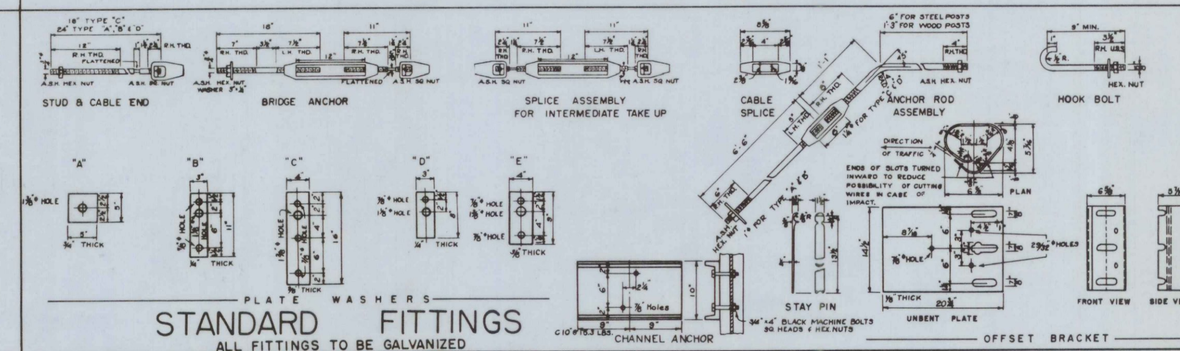

GUARD RAIL TYPE "D"




GUARD RAIL TYPE "E", "F" & "G"

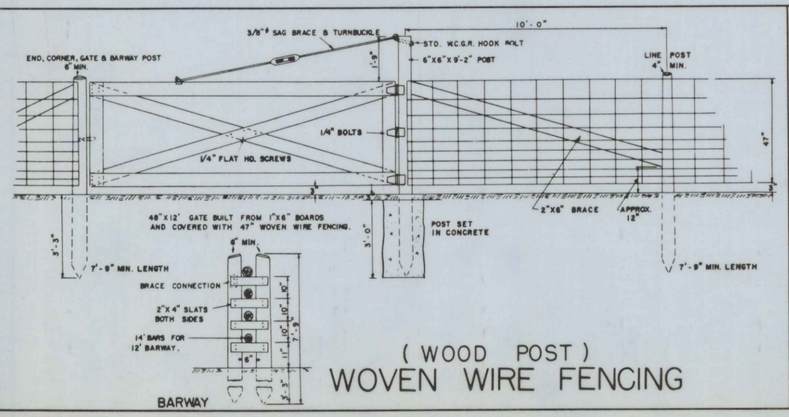



GUARD RAIL TYPE "H"

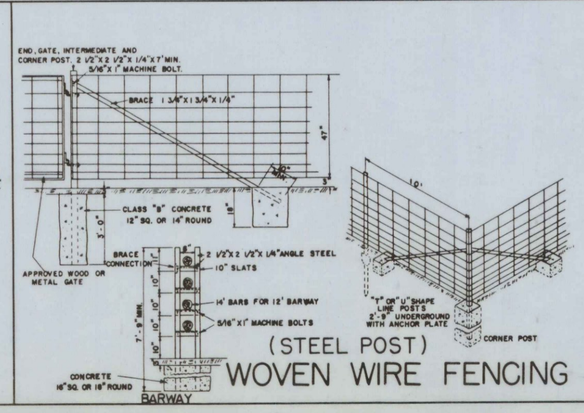



STANDARD FITTINGS

ALL FITTINGS TO BE GALVANIZED

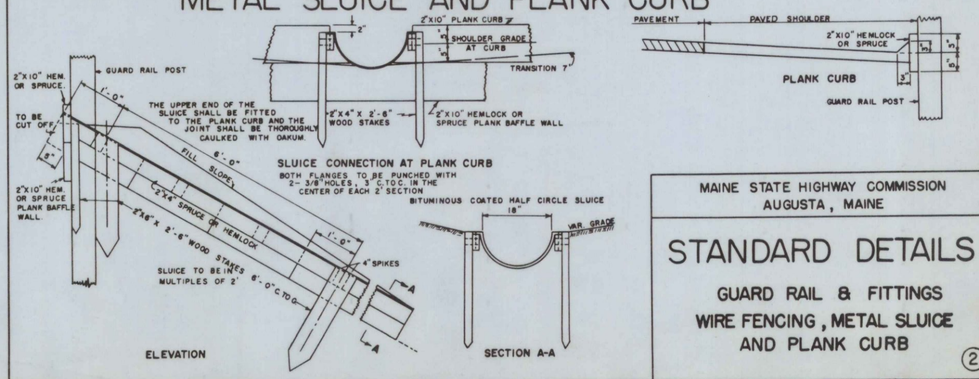



(WOOD POST)
WOVEN WIRE FENCING




(STEEL POST)
WOVEN WIRE FENCING

## METAL SLUICE AND PLANK CURB




MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

# STANDARD DETAILS

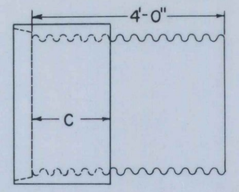
GUARD RAIL & FITTINGS
WIRE FENCING, METAL SLUICE AND PLANK CURB

2

C. B. CO. NO. 375 41171

| B. P. R. REG. NO. | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 7 | 74 |

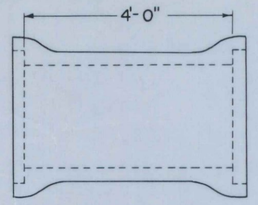
## PIPE CONNECTIONS




GROOVE END COMBINATION
For 30" to 72", inclusive, diameter connection between concrete and metal pipe

"C" = 17" min. for sizes 30" to 48" incl.
"C" = 23" min. for sizes over 48"

Asphalt coated corrugated metal pipe shall conform to the latest standard specifications

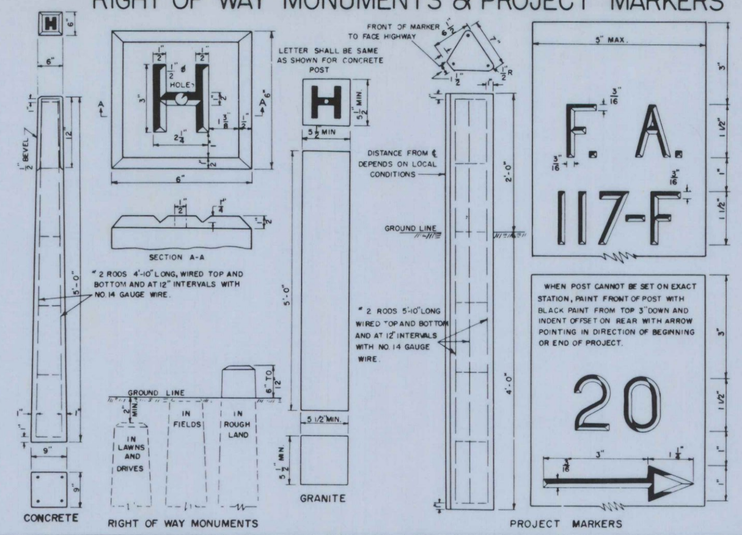



REINFORCED CONCRETE PIPE CONNECTOR DOUBLE BELL

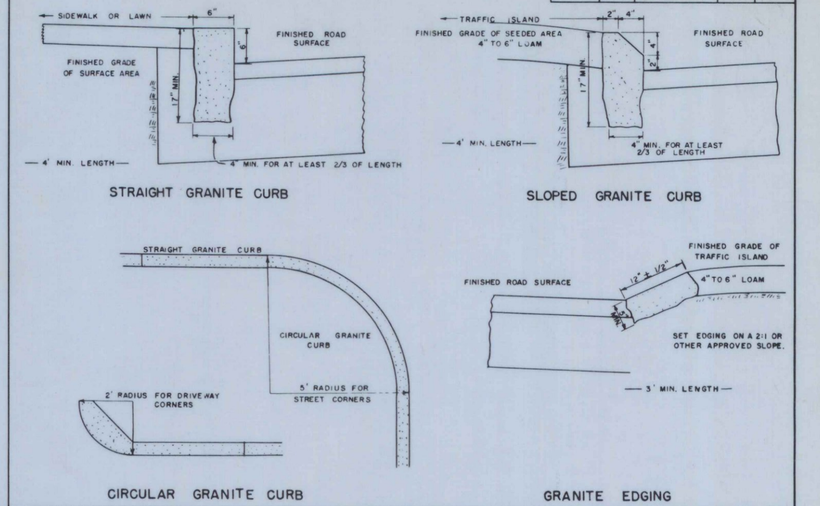
For 12" to 24", inclusive, diameter connection between concrete and metal pipe

Reinforced concrete pipe shall conform to the latest standard specifications

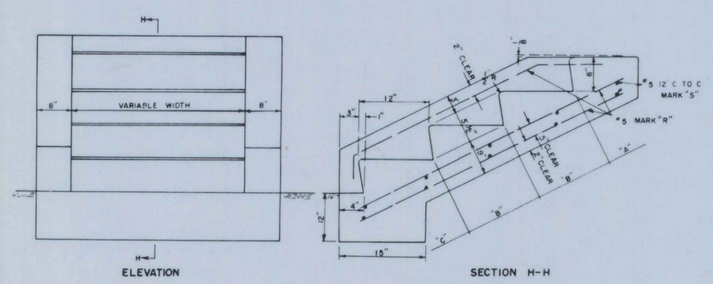
## RIGHT OF WAY MONUMENTS & PROJECT MARKERS




## GRANITE CURB & EDGING



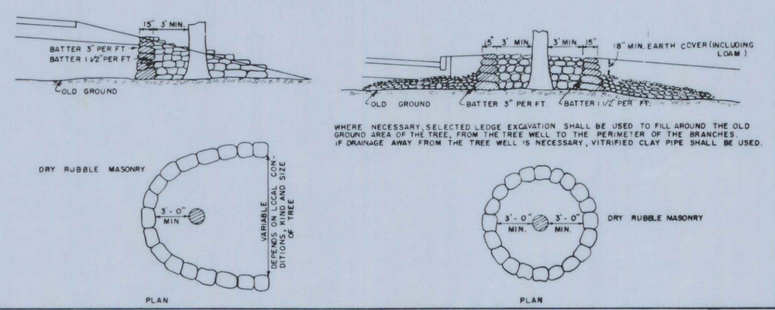

## CONCRETE STEPS



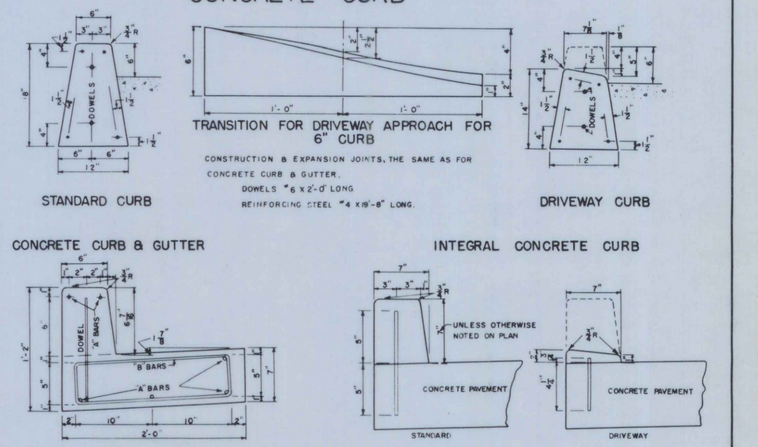

| CONCRETE CLASS "A" | | |
|---|---|---|
| SECTION | STEPS PER FT. OF WIDTH | PARAPET EACH WALL |
| "A" HEADER | .032 CU. YDS. | 0.22 CU. YDS. |
| "B" EA. INTER. ST. | .040 CU. YDS. | .040 CU. YDS. |
| "C" FOOTER | .071 CU. YDS. | 0.65 CU. YDS. |

| REINFORCING STEEL | | | |
|---|---|---|---|
| MARK | SIZE | NUMBER | LENGTH (EACH) |
| R | #5 (1.043 LBS. PER FT.) | 3 EACH PARAPET 2 EACH FT. OF WIDTH | 8' FOR "A" +13" FOR EACH "B" +16" FOR "C" |
| S | #5 (1.043 LBS. PER FT.) | 2 FOR "A" 2 FOR EACH "B" 4 FOR "C" | 6' EACH PARAPET +12" PER FT. OF WIDTH |

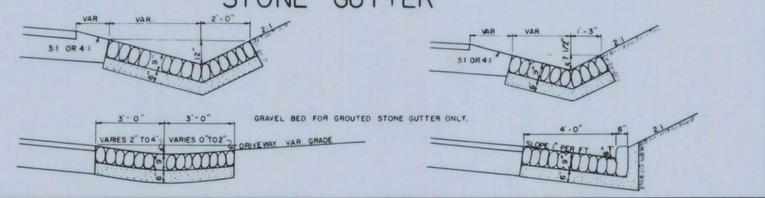
## TREE WELLS



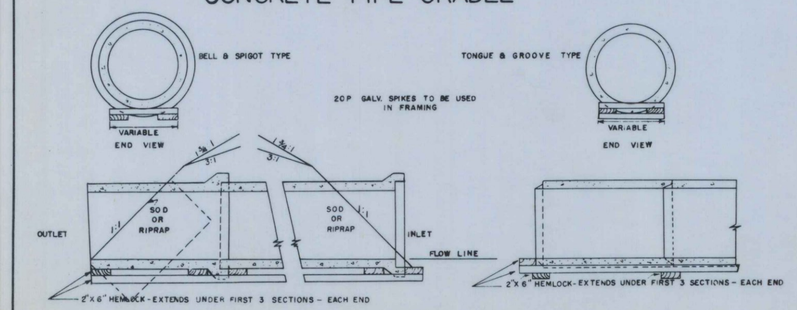

## CONCRETE CURB



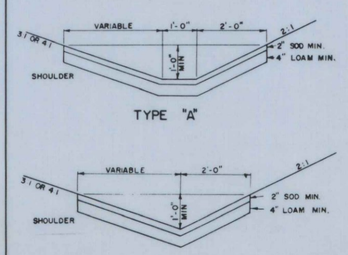

## STONE GUTTER



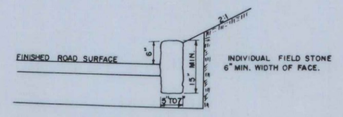

## CONCRETE PIPE CRADLE



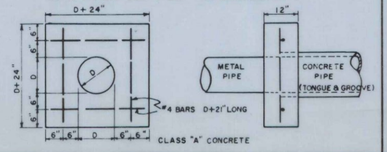

## SODDED GUTTER




## FIELD STONE CURB




## CONCRETE COLLAR



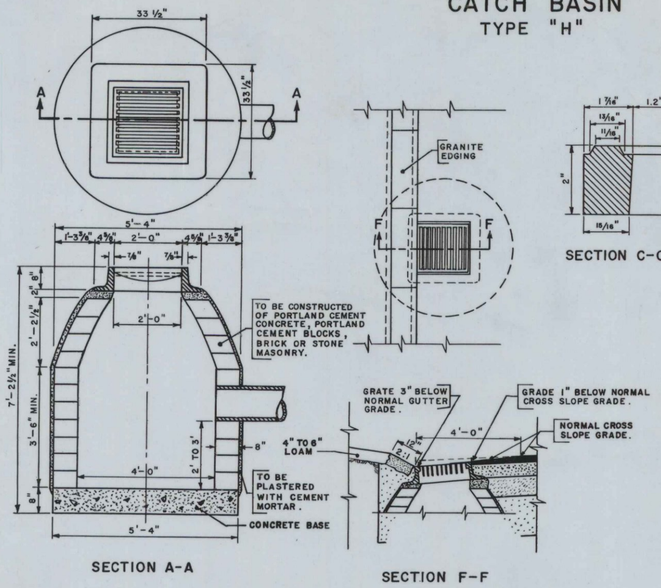

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

# STANDARD DETAILS

MISCELLANEOUS ITEMS

| B.P.R. REGION NO. | STATE | FEDERAL AID PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| I | MAINE | F-050-2(6) | 8 | 74 |

## CATCH BASIN
### TYPE "H"

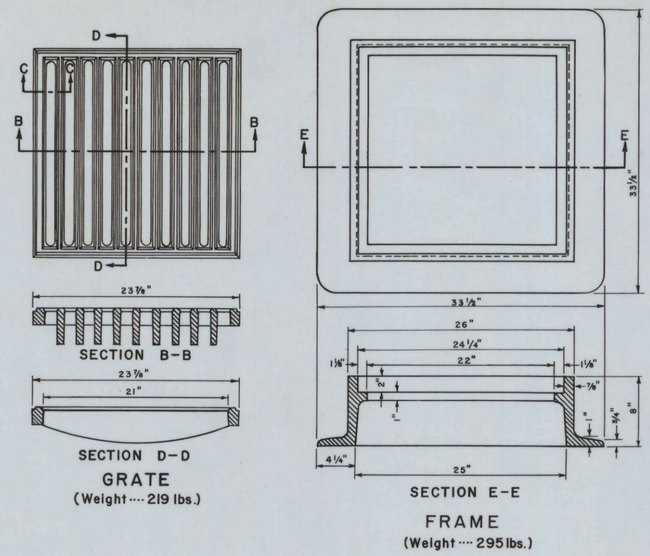



SECTION A-A

SECTION C-C

SECTION F-F

DETAIL OF CATCH BASIN IN GRANITE EDGING AREA




SECTION B-B

SECTION D-D

GRATE
(Weight ···· 219 lbs.)

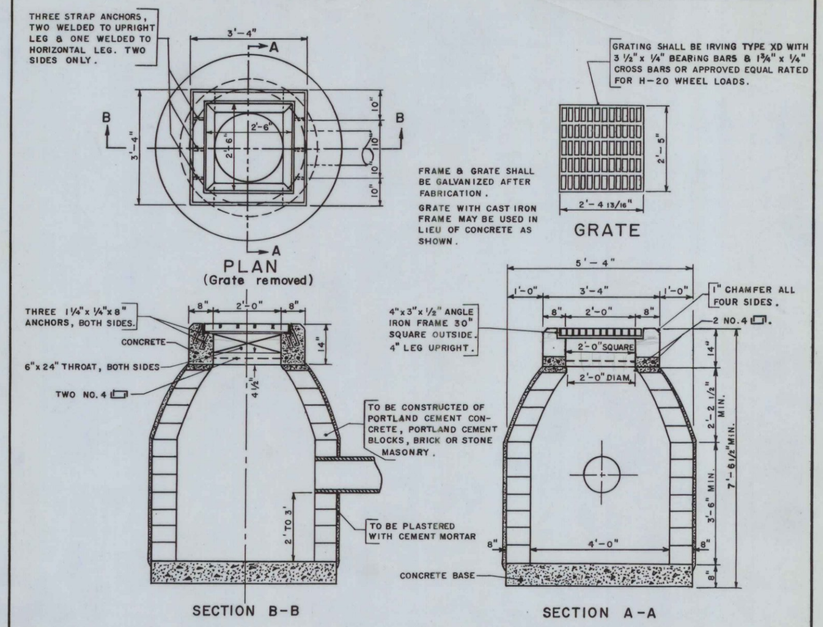
SECTION E-E

FRAME
(Weight ···· 295 lbs.)

**Note:**

TYPE "H" CATCH BASIN IS TO BE USED IN GRANITE EDGING AREA. (When this type of catch basin is used with sloped or straight curb, the curb on gutter line shall be cut to fit flange.

## CATCH BASIN
### TYPE "F"



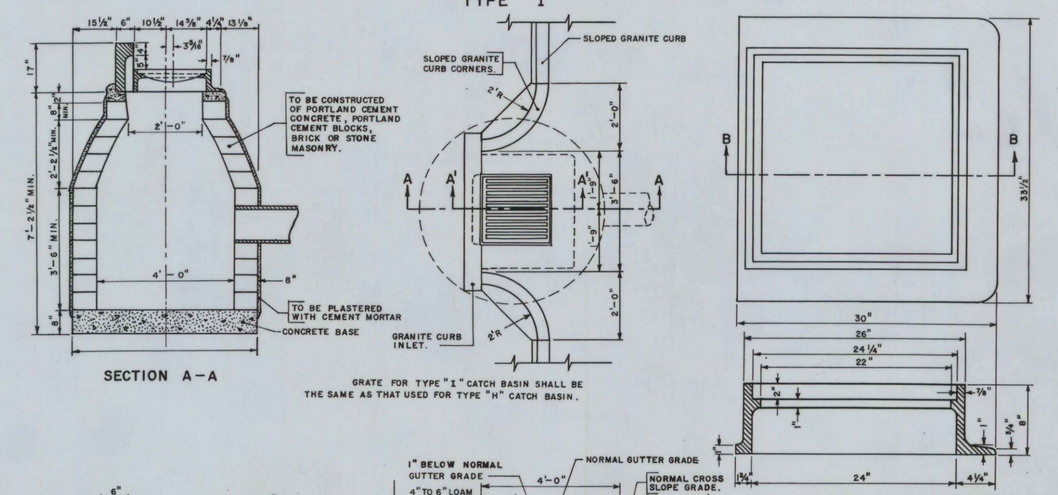

PLAN
(Grate removed)

GRATE

SECTION B-B

SECTION A-A

## CATCH BASIN
### TYPE "I"

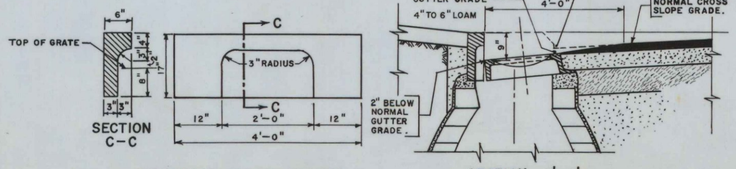



SECTION A-A

GRATE FOR TYPE "I" CATCH BASIN SHALL BE THE SAME AS THAT USED FOR TYPE "H" CATCH BASIN.

SECTION B-B

FRAME
(Weight ···· 264 lbs.)




SECTION C-C

GRANITE CURB INLET

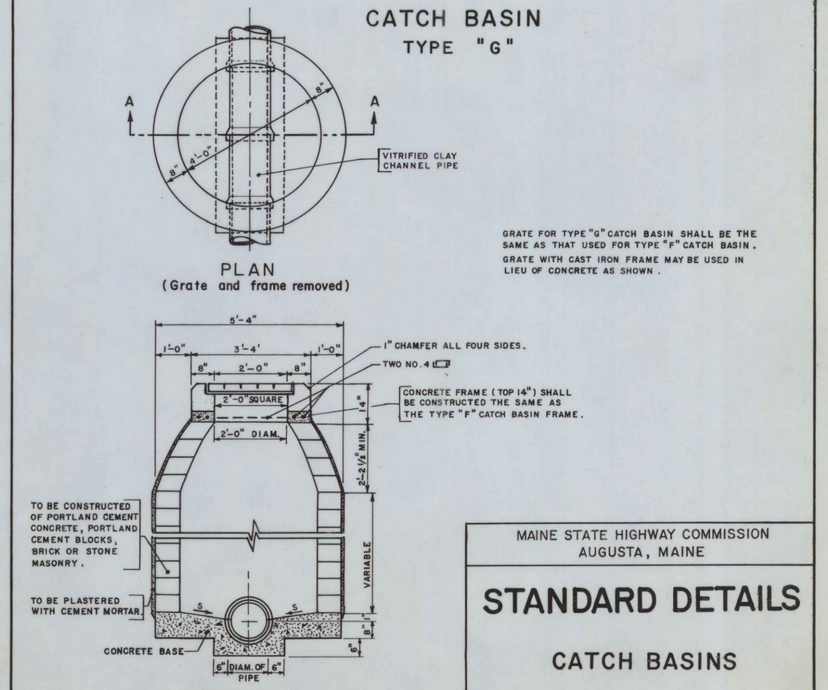
SECTION A'-A'

DETAIL OF CATCH BASIN IN SLOPED CURB AREA

**Note:**

TYPE "I" CATCH BASIN IS TO BE USED IN SLOPED CURB AREA. (This type may also be used in straight curb areas.)

## CATCH BASIN
### TYPE "G"




PLAN
(Grate and frame removed)

SECTION A-A

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

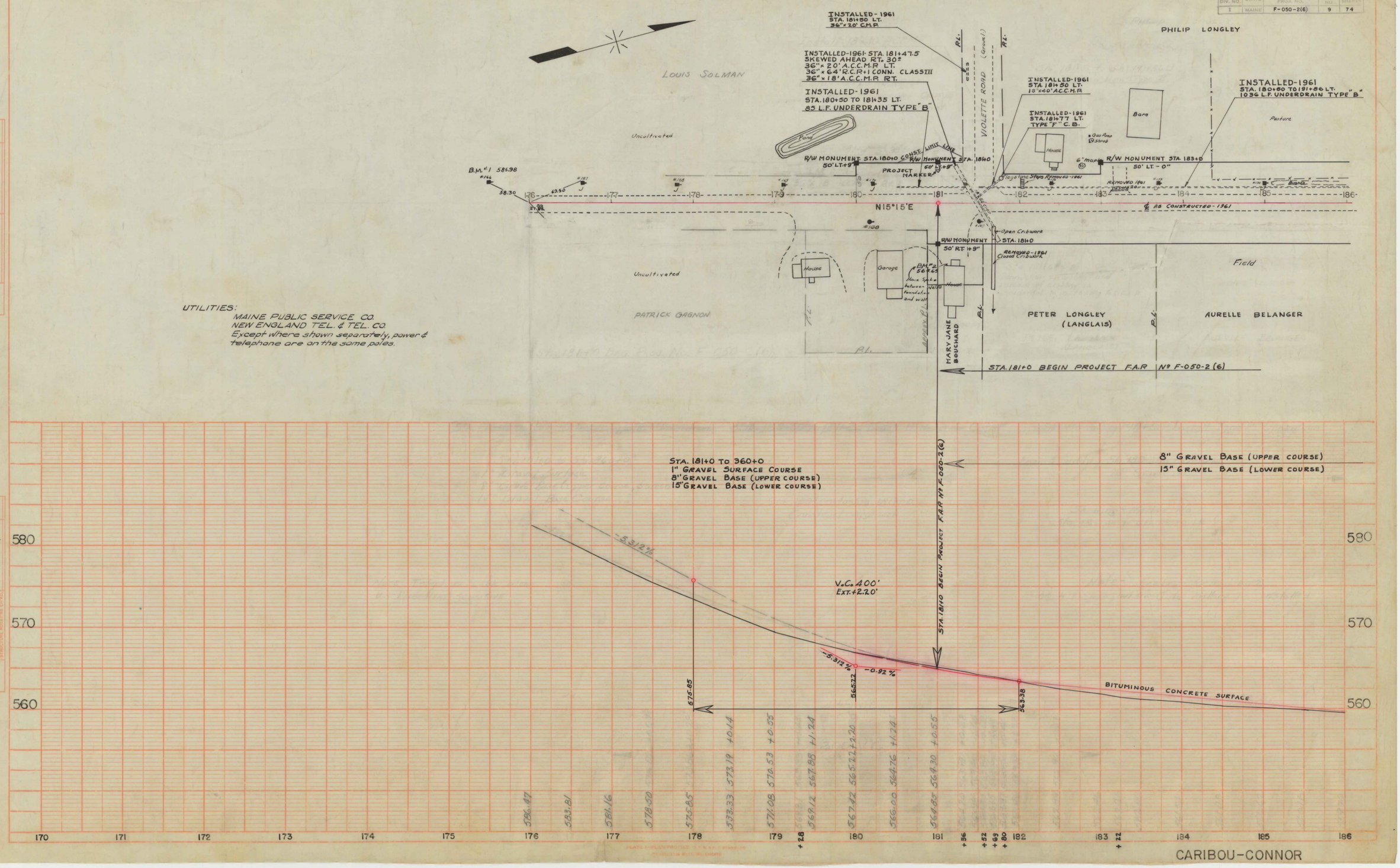
# STANDARD DETAILS

## CATCH BASINS

4

C. B. CO. NO. 3759

| B. P. R. DIV. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 9 | 74 |

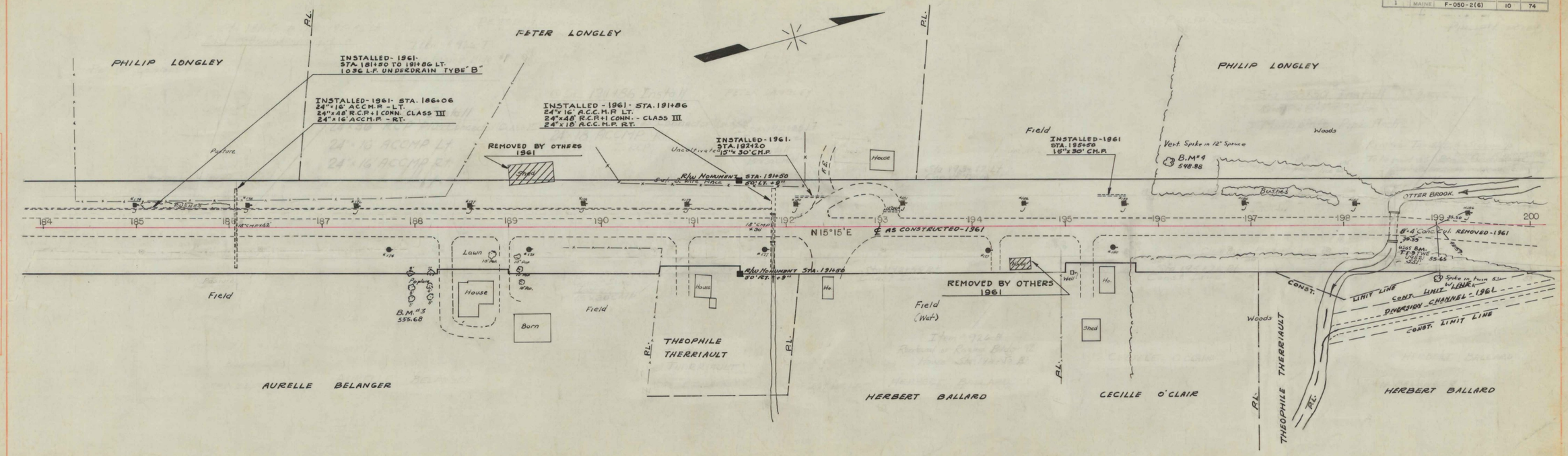


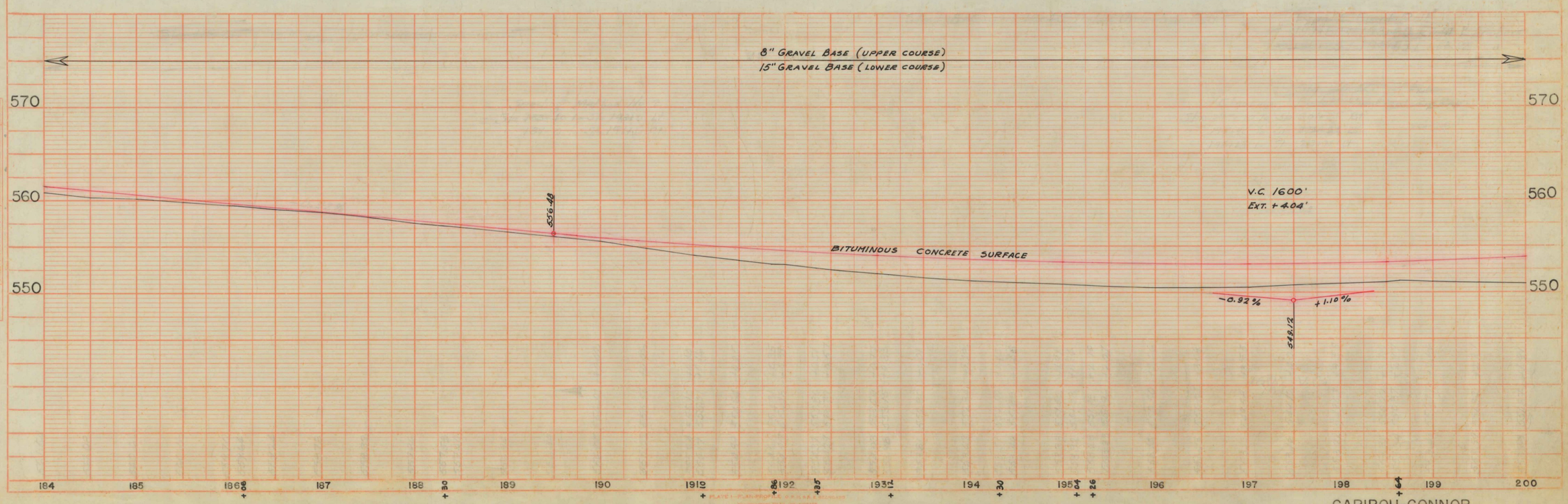

UTILITIES:
MAINE PUBLIC SERVICE CO.
NEW ENGLAND TEL. & TEL. CO.
Except where shown separately, power & telephone are on the same poles.




CARIBOU-CONNOR

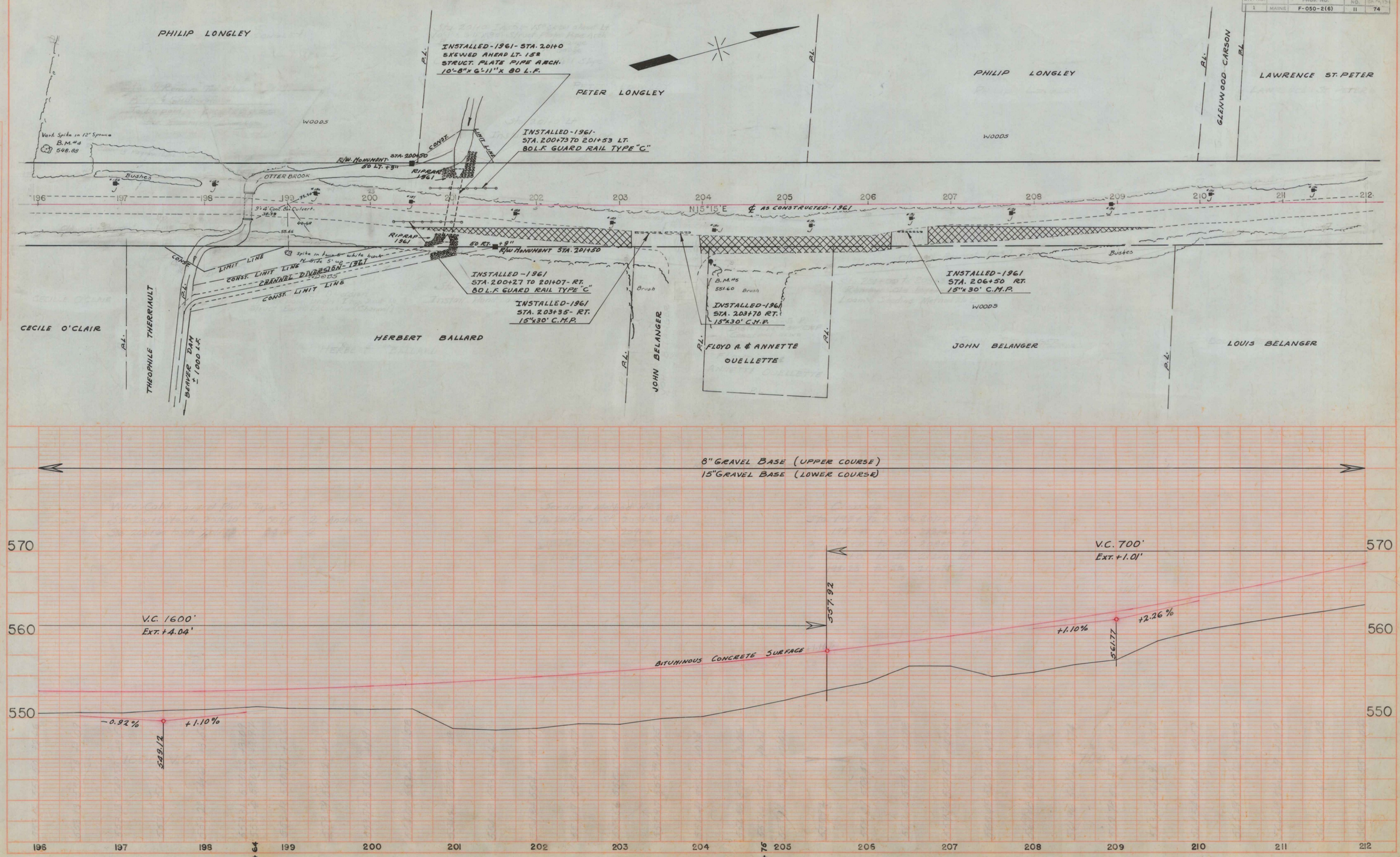
| B.P.R. DIV. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 10 | 74 |



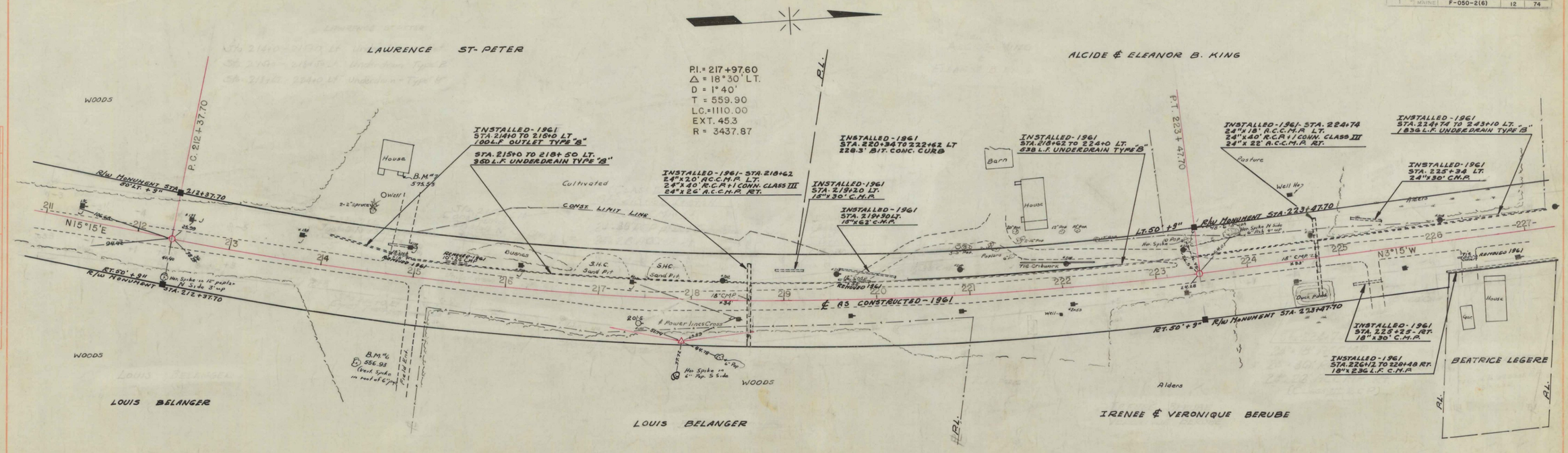

CARIBOU-CONNOR

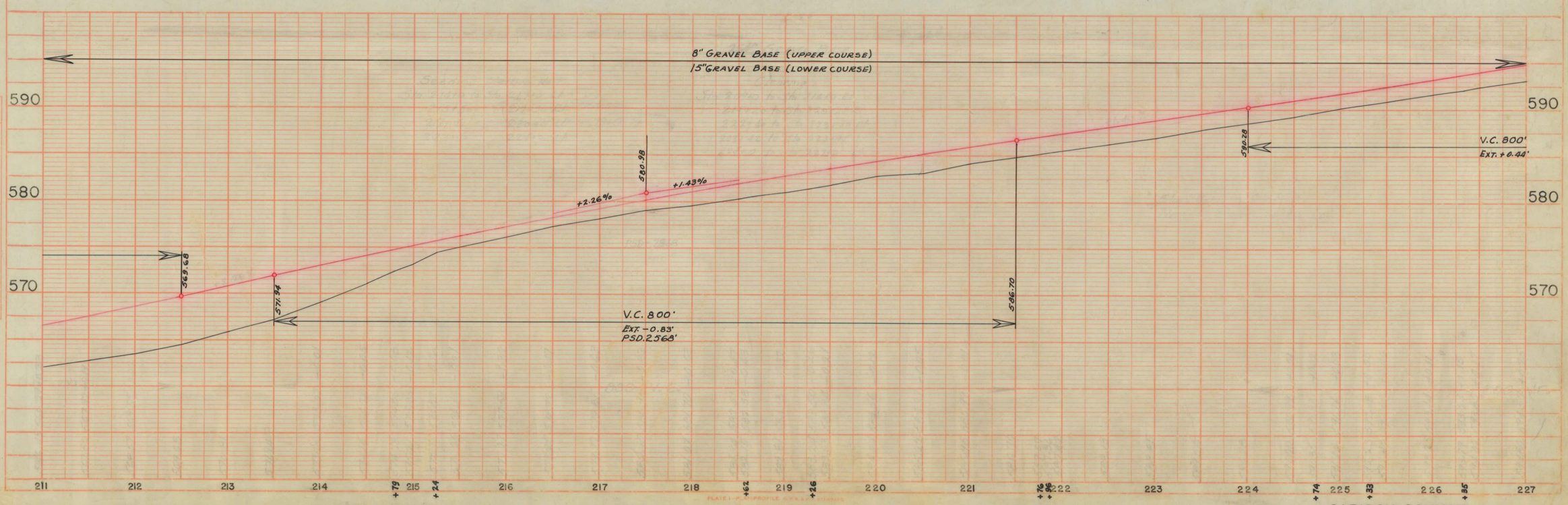
| B.P.R. DIV. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 11 | 74 |



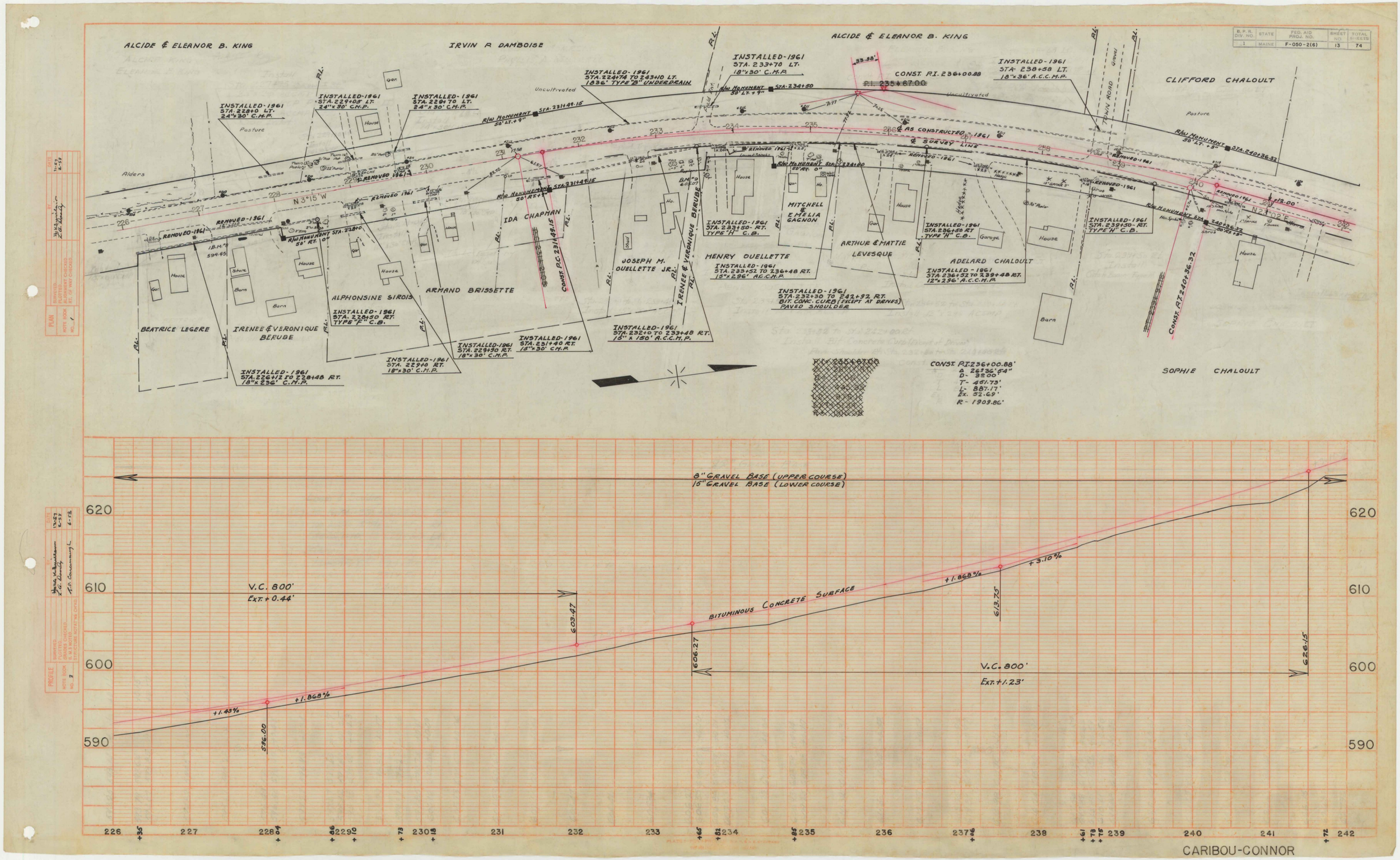

CARIBOU-CONNOR

| B.P.R. DIV. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 12 | 74 |



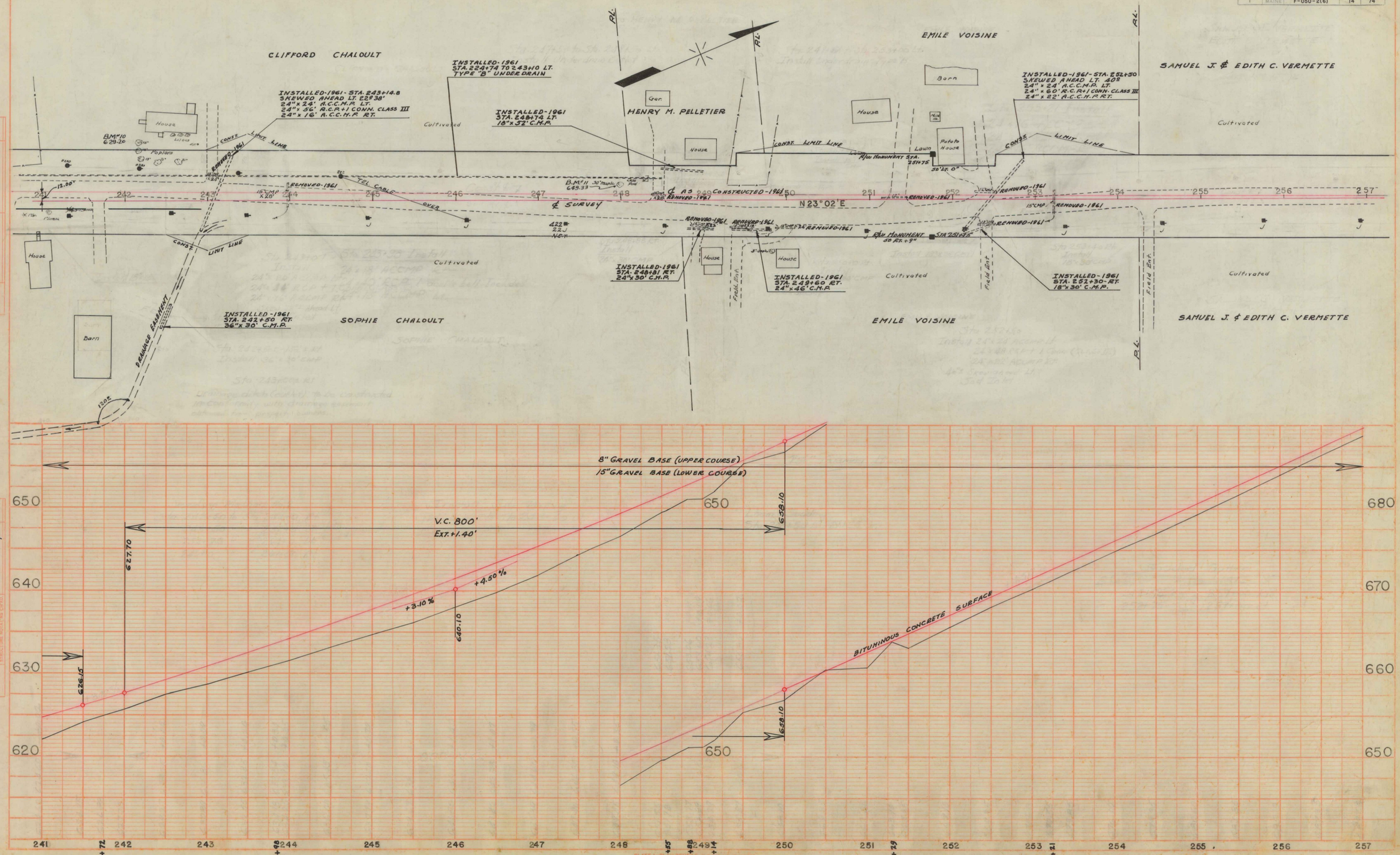




CARIBOU-CONNOR



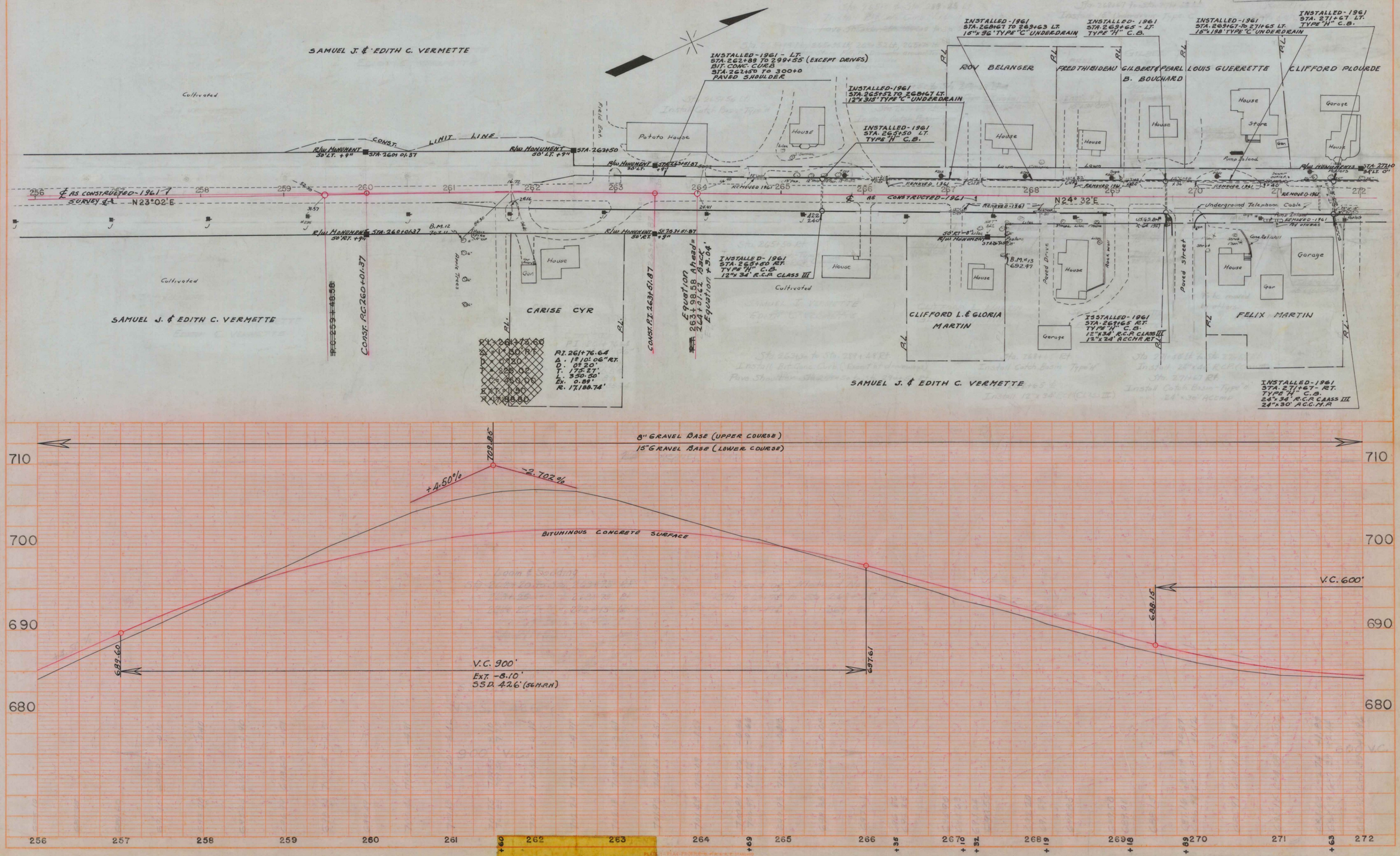
B.P.R. DIV. NO. 1
STATE MAINE
FED. AID PROJ. NO. F-050-2(6)
SHEET NO. 13
TOTAL SHEETS 74
ALCIDE & ELEANOR B. KING
IRVIN P. DAMBOISE
ALCIDE & ELEANOR B. KING
CLIFFORD CHALOULT
INSTALLED-1961 STA. 228+0 LT. 24"x30' C.M.P.
INSTALLED-1961 STA. 229+05 LT. 24"x30' C.M.P.
INSTALLED-1961 STA. 229+70 LT. 24"x30' C.M.P.
INSTALLED-1961 STA. 224+74 TO 243+10 LT. 1836' TYPE "B" UNDERDRAIN
INSTALLED-1961 STA. 233+70 LT. 18"x30' C.M.P.
CONST. P.I. 236+00.88
P.I. 235+67.00
INSTALLED-1961 STA. 238+58 LT. 18"x36' A.C.C.M.P.
R/W MONUMENT STA. 231+49.15 50' LT. +9"
R/W MONUMENT STA. 234+50 50' LT. +9"
R/W MONUMENT STA. 240+36.32 50' LT. +9"
R/W MONUMENT STA. 228+0 50' RT. 0"
R/W MONUMENT STA. 231+49.15 50' RT. +9"
R/W MONUMENT STA. 234+80 50' RT. 0"
R/W MONUMENT STA. 240+36.32 50' RT. +9"
℄ AS CONSTRUCTED - 1961
℄ SURVEY LINE
TOWN ROAD
Alders
Pasture
Uncultivated
N 3°15' W
N 23°02' E
REMOVED-1961
IDA CHAPMAN
CONST. P.C. 231+49.15
JOSEPH M. OUELLETTE JR.
IRENEE & VERONIQUE BERUBE
MITCHELL & EMELIA GAGNON
HENRY OUELLETTE
ARTHUR & MATTIE LEVESQUE
ADELARD CHALOULT
INSTALLED-1961 STA. 233+50 - RT. TYPE "H" C.B.
INSTALLED-1961 STA. 233+52 TO 236+48 RT. 15"x296' A.C.C.M.P.
INSTALLED-1961 STA. 236+50 RT TYPE "H" C.B.
INSTALLED-1961 STA. 236+52 TO 239+48 RT. 12"x296' A.C.C.M.P.
INSTALLED-1961 STA. 232+30 TO 242+92 RT. BIT. CONC. CURB (EXCEPT AT DRIVES) PAVED SHOULDER
INSTALLED-1961 STA. 239+50 - RT. TYPE "H" C.B.
INSTALLED-1961 STA. 232+0 TO 233+48 RT. 15" x 150' A.C.C.M.P.
INSTALLED-1961 STA. 231+40 RT. 15"x30' C.M.P.
INSTALLED-1961 STA. 229+90 RT. 18"x30' C.M.P.
INSTALLED-1961 STA. 229+0 RT. 18"x30' C.M.P.
INSTALLED-1961 STA. 226+12 TO 228+48 RT. 18"x236' C.M.P.
ALPHONSINE SIROIS
ARMAND BRISSETTE
BEATRICE LEGERE
IRENEE & VERONIQUE BERUBE
INSTALLED-1961 STA. 228+50 RT. TYPE "F" C.B.
CONST. P.T. 240+36.32
SOPHIE CHALOULT
CONST. P.I. 236+00.88'
Δ 26°36'54"
D- 3°00'
T- 451.73'
L- 887.17'
Ex. 52.69'
R- 1909.86'
8" GRAVEL BASE (UPPER COURSE)
15" GRAVEL BASE (LOWER COURSE)
V.C. 800'
Ext. +0.44'
BITUMINOUS CONCRETE SURFACE
+1.43%
+1.868%
+1.868%
+3.10%
596.00
603.47
606.27
613.75
626.15
V.C. 800'
Ext. +1.23'
620
610
600
590
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
CARIBOU-CONNOR

| B.P.R. DIV. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 14 | 74 |



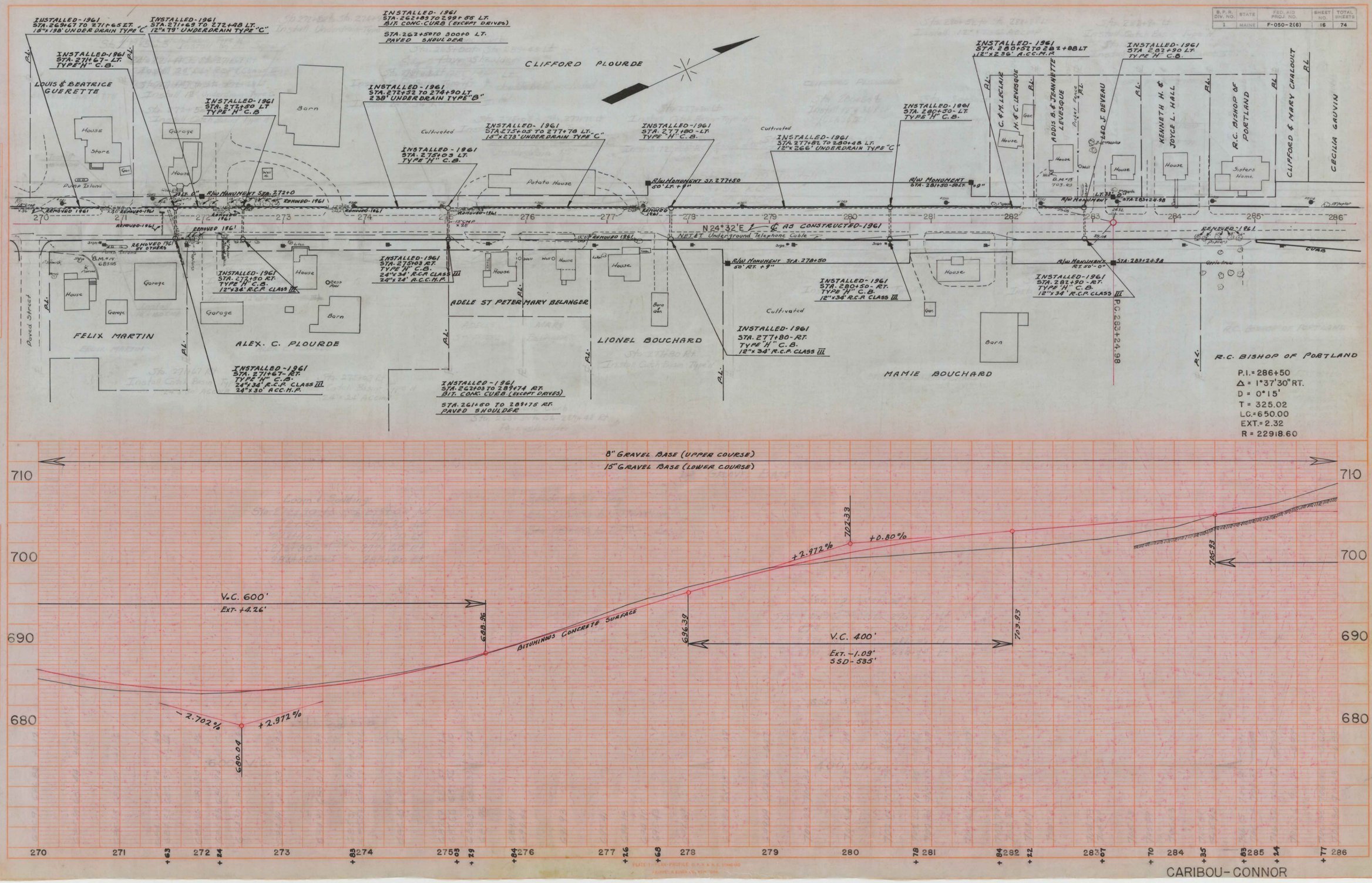

CARIBOU-CONNOR

| B.P.R. DIV. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 3 | MAINE | F-050-2(6) | 15 | 74 |




CARIBOU-CONNOR

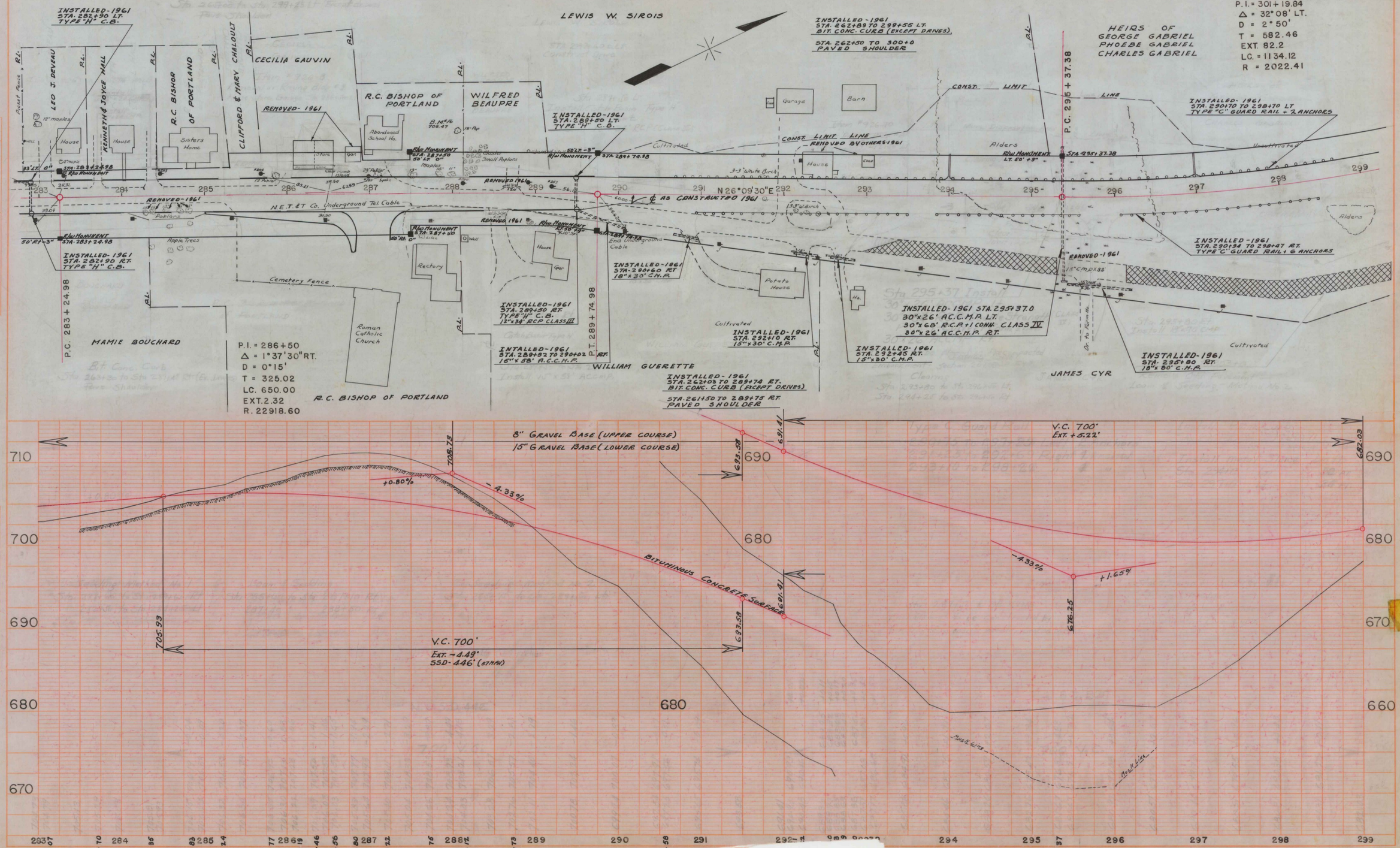
| B.P.R. DIV. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 16 | 74 |




CARIBOU-CONNOR

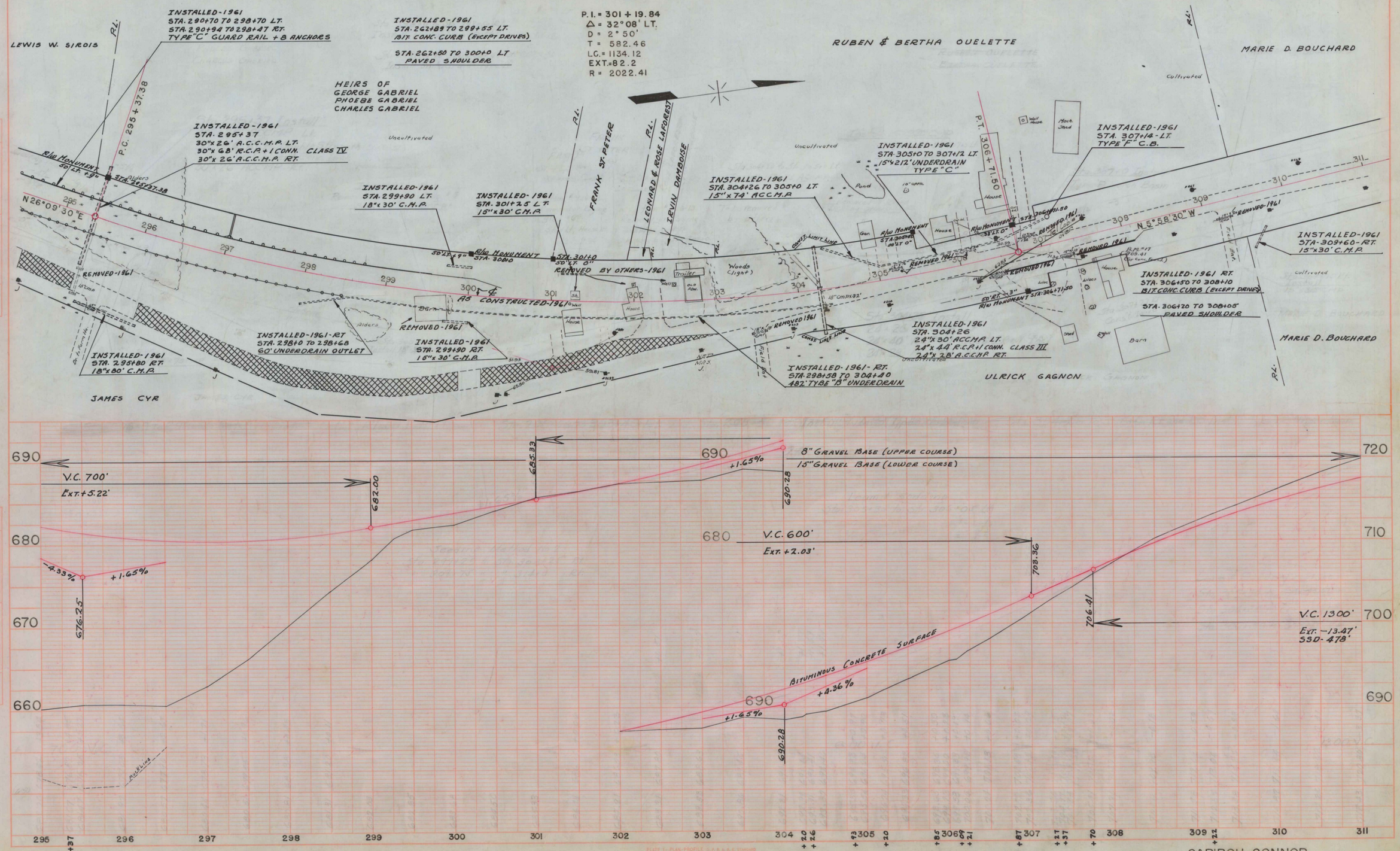
| B.P.R. DIV. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 17 | 74 |

P.I. = 301+19.84
Δ = 32°08' LT.
D = 2°50'
T = 582.46
EXT. 82.2
L.C. = 1134.12
R = 2022.41



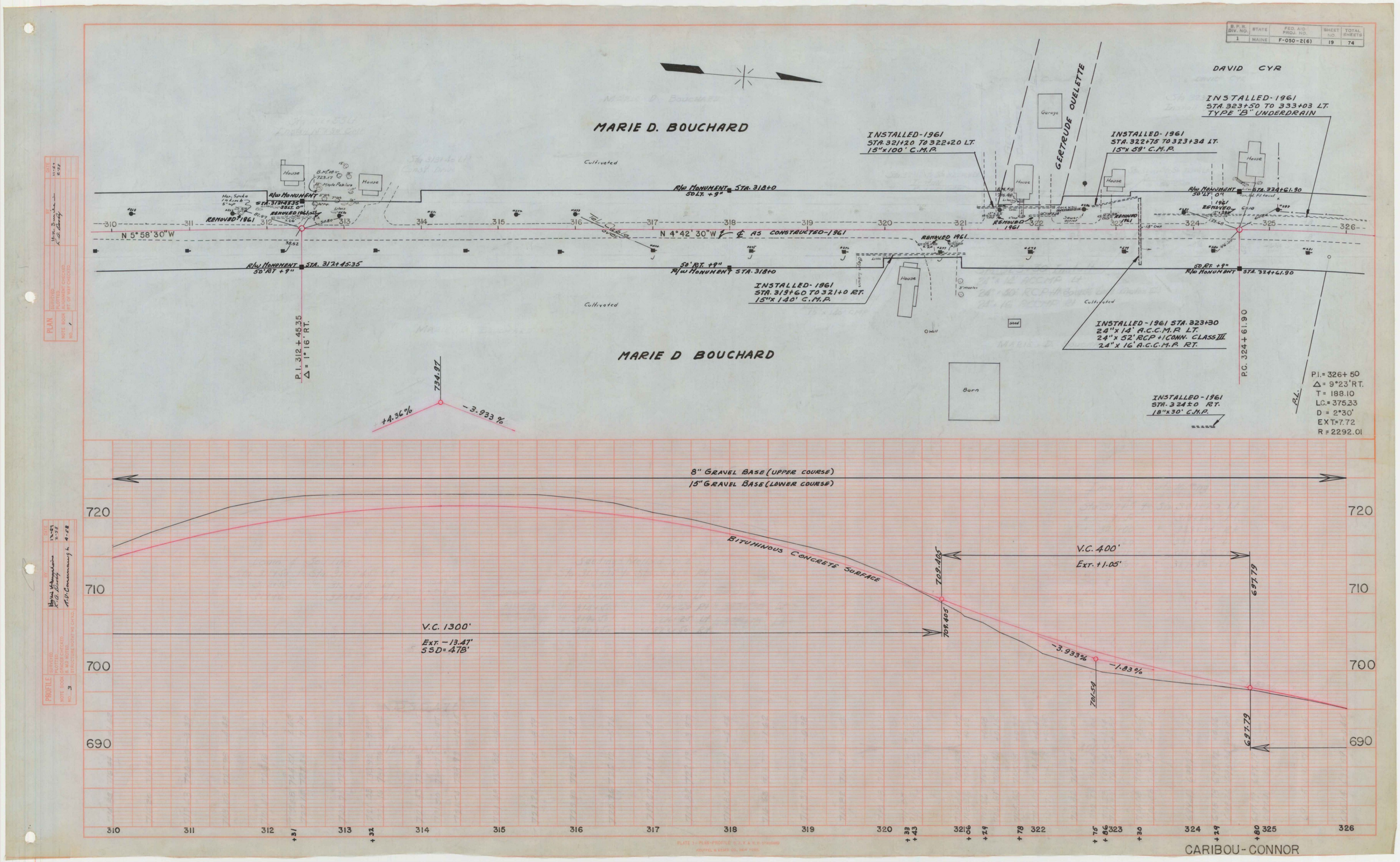

CARIBOU-CONNOR

| B.P.R. DIV. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 18 | 74 |



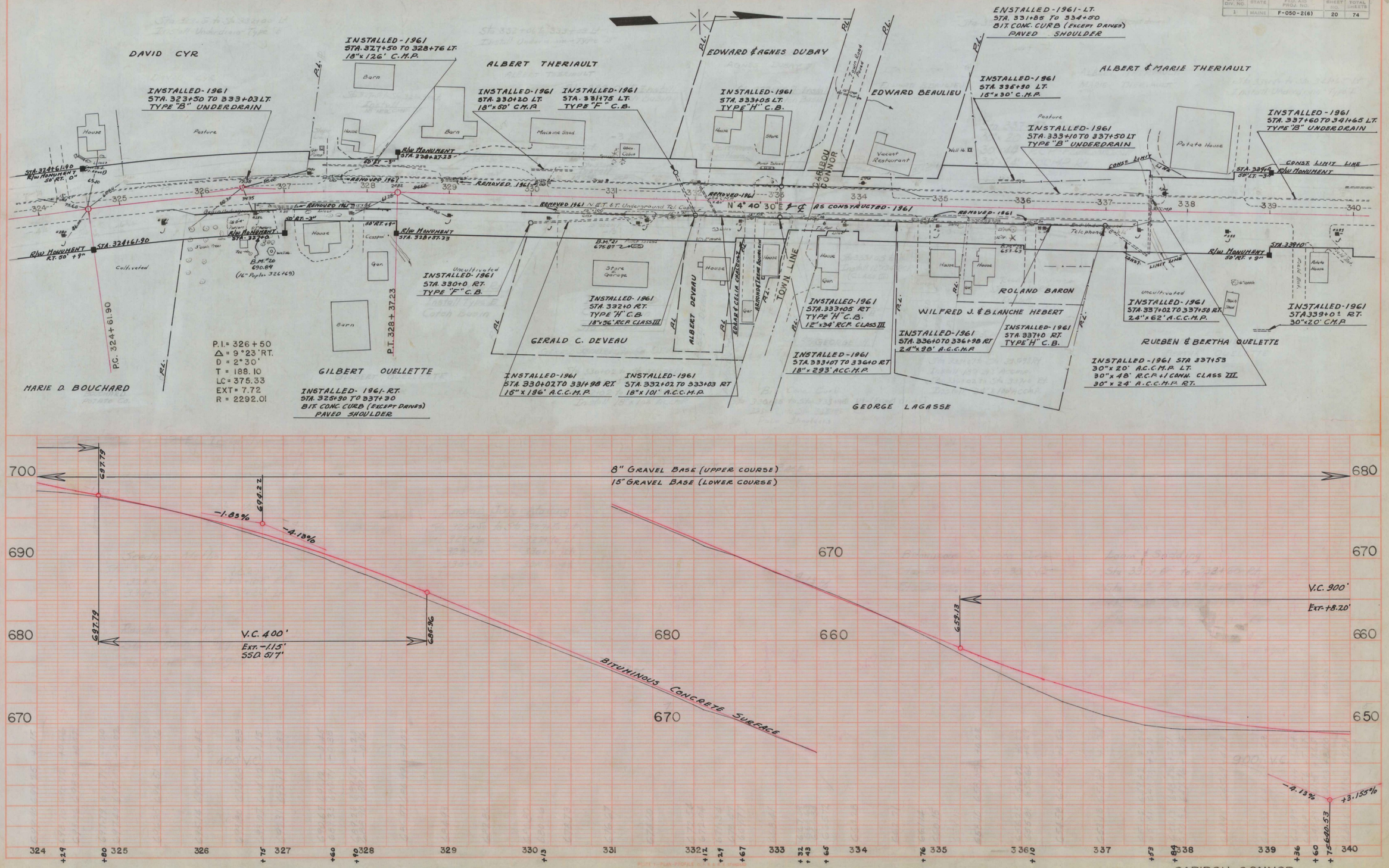

CARIBOU-CONNOR

PLATE 1 - PLAN-PROFILE B.P.R. & B.E. STANDARD
HOUFEK & KEEFE, INC. NEW YORK



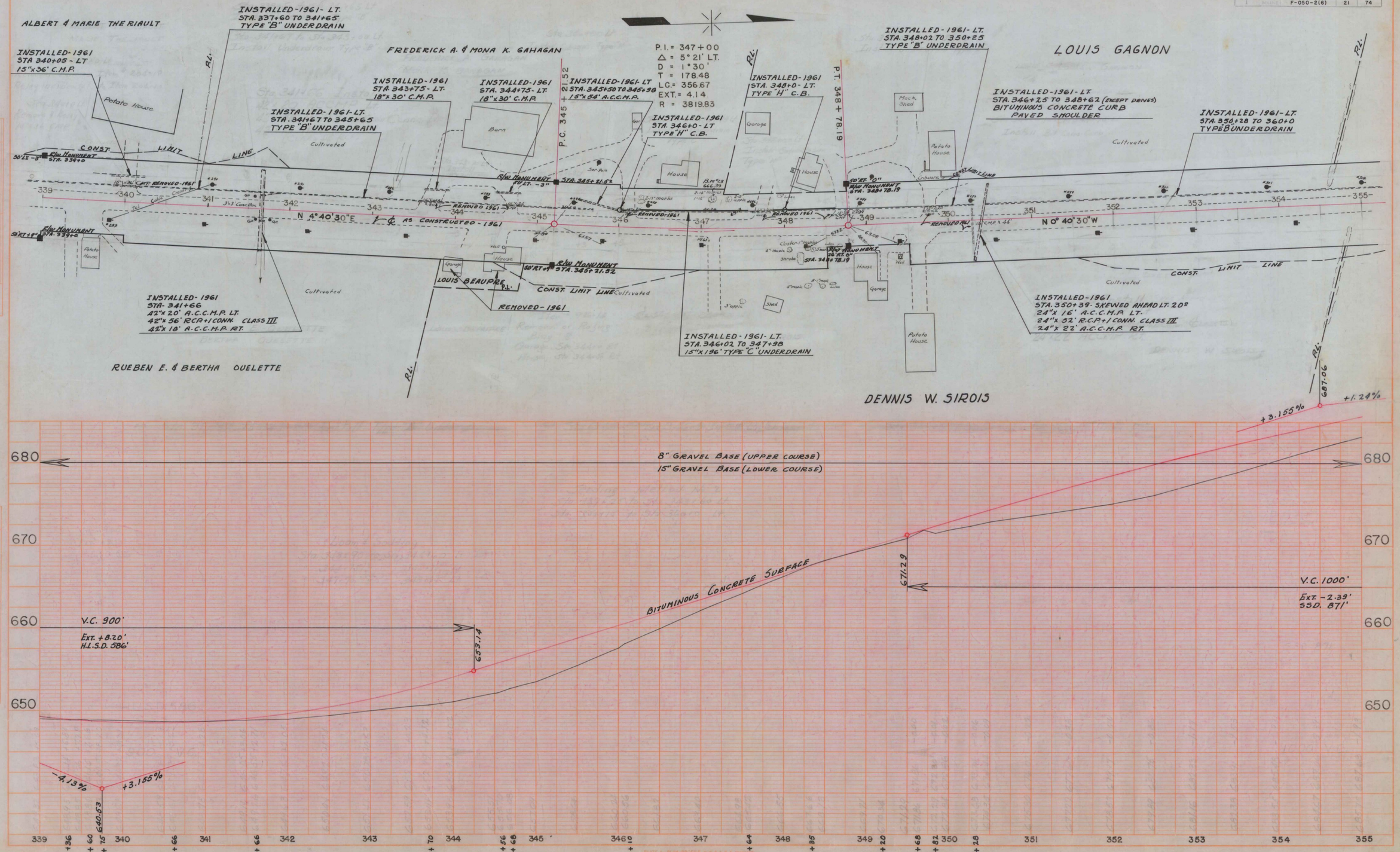
B.P.R. DIV. NO. 1
STATE MAINE
FED. AID PROJ. NO. F-050-2(6)
SHEET NO. 19
TOTAL SHEETS 74
DAVID CYR
MARIE D. BOUCHARD
GERTRUDE OUELETTE
INSTALLED-1961 STA. 323+50 TO 333+03 LT. TYPE "B" UNDERDRAIN
INSTALLED-1961 STA. 321+20 TO 322+20 LT. 15"x100' C.M.P.
INSTALLED-1961 STA. 322+75 TO 323+34 LT. 15"x 59' C.M.P.
R/W MONUMENT STA. 318+0 50 LT. +9"
R/W MONUMENT STA. 324+61.90 50' LT. 0"
R/W MONUMENT STA. 312+45.35 50' RT +9"
50' RT. +9" R/W MONUMENT STA. 318+0
50 RT. +9" R/W MONUMENT STA. 324+61.90
N 5°58'30"W
N 4°42'30"W ℄ AS CONSTRUCTED-1961
REMOVED 1961
INSTALLED-1961 STA. 319+60 TO 321+0 RT. 15"x 140' C.M.P.
INSTALLED-1961 STA. 323+30 24"x 14' A.C.C.M.P. LT. 24"x 52' RCP +1 CONN. CLASS III 24"x 16' A.C.C.M.P. RT.
INSTALLED-1961 STA. 324±0 RT. 18"x30' C.M.P.
P.I. 312+45.35 Δ = 1°16' RT.
P.C. 324+61.90
P.I.= 326+50 Δ= 9°23' RT. T= 188.10 LC.= 375.33 D = 2°30' EXT.=7.72 R = 2292.01
Cultivated
House
Garage
Barn
Shed
Tel. Cable over
MARIE D BOUCHARD
734.97
+4.36%
-3.933%
8" GRAVEL BASE (UPPER COURSE)
15" GRAVEL BASE (LOWER COURSE)
BITUMINOUS CONCRETE SURFACE
V.C. 400'
EXT. +1.05'
V.C. 1300'
EXT. -13.47'
SSD= 478'
709.405
697.79
-3.933%
-1.83%
701.54
720
710
700
690
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
CARIBOU-CONNOR

| B.P.R. DIV. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 20 | 74 |



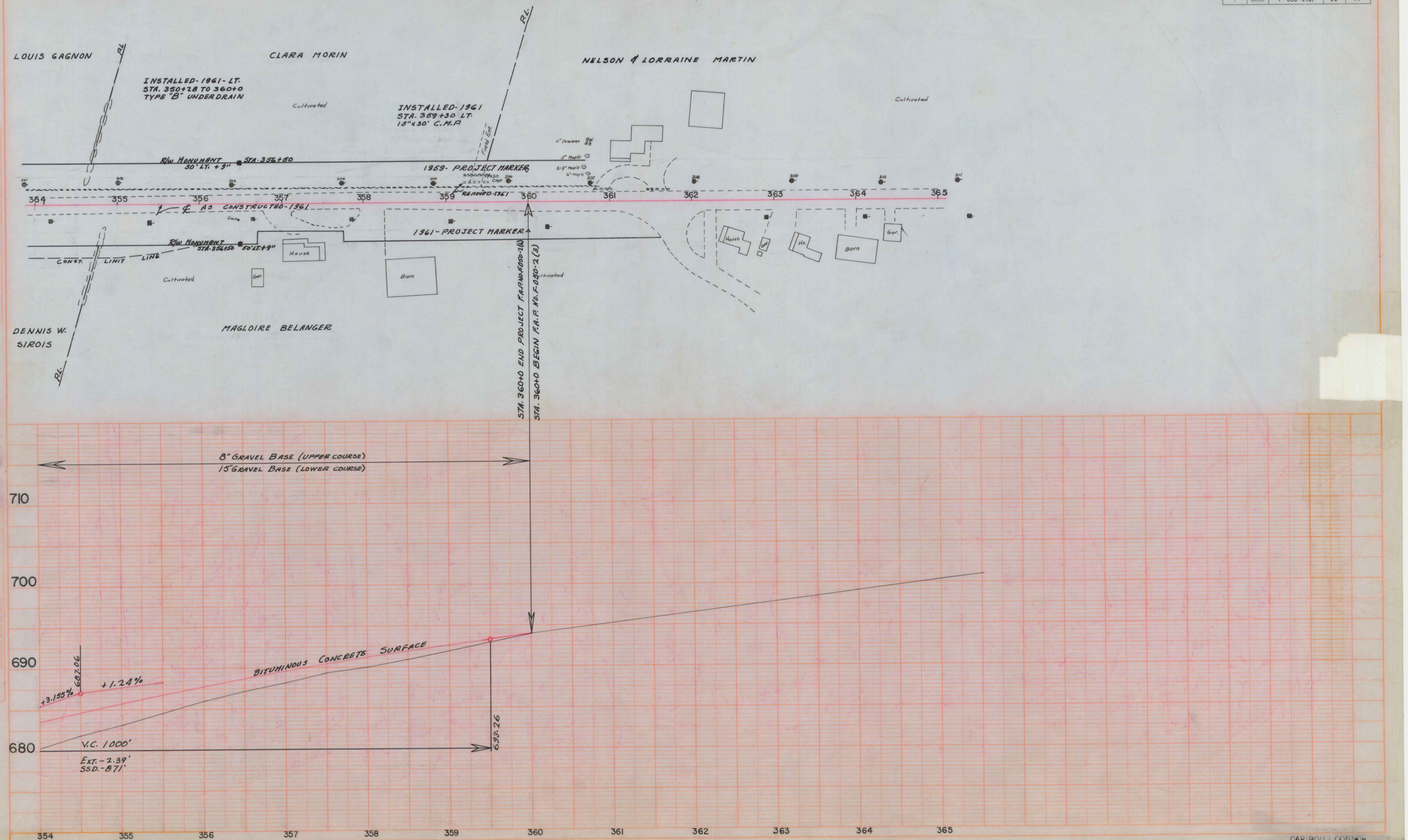

CARIBOU-CONNOR

| S.P.R. DIV. NO. | STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 21 | 74 |




CARIBOU-CONNOR

| B. P. R. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | F-050-2(6) | 22 | 74 |




CARIBOU - CONNOR