

CONVENTIONAL SIGNS & ABBREVIATIONS

STATE LINE	TIMBER	TRUNK HIGHWAY R/W LINE
COUNTY LINE	BRUSH	RAILROAD R/W LINE
TOWNSHIP OR RANGE LINE	ORCHARD	PRESENT ROAD R/W LINE
SECTION LINE	ROCK LEDGE	EXCAVATION
QUARTER LINE	SAND	EARTH
SIXTEENTH LINE	EDGE OF CUT	LOOSE ROCK
RIGHT-OF-WAY LINE	TOE OF EMBANKMENT	SOLID ROCK
PROPERTY LINE (Except Land Lines)	CATCH BASIN	EMBANKMENT
VACATED PLATTED PROPERTY	MANHOLE	OVERHAUL
CORPORATE OR CITY LIMITS	FIRE HYDRANT	SURFACING
TRUNK HIGHWAY CENTER LINE	ARC LAMP	HAND DITCHING
RETAINING WALL	OTHER LAMPS (Same Kind)	SPECIAL EXCAVATION
STEAM RAILROAD	RAILROAD CROSSING SIGN	SPECIAL PLOWING
ELECTRIC RAILROAD	RAILROAD CROSSING BELL	GUARD RAIL
RAILROAD RIGHT-OF-WAY LINE	ELECTRIC WARNING SIGN	CORRUGATED METAL CULVERT
CREEK	CROSSING GATE	C.M.CULV.
RAPIDS OR WATERFALL	CATTLE GUARD	SECTIONAL CONCRETE CULVERT
DRY RUN	OVERHEAD (Highway Over)	SECTIONAL CONCRETE CULVERT (Heavy Type)
DRAINAGE DITCH	UNDERPASS (Highway Under)	TON MILES
HIGH TENSION LINE	ABUTMENT, WALL & PIER	TELEPHONE POLE
POWER POLE LINE	GIRDER BRIDGE	POWER POLE
TELEPHONE OR TELEGRAPH LINE	TRUSS	PLACE
CULVERTS - PLAIN	TRESTLE	IN PLACE
WITH ENDWALLS	BUILDING (One Story Frame)	REPLACE
WITH WINGWALLS	F-FRAME C-CONCRETE	RIGHT
DROP INLET	S-STONE T-TILE	LEFT
GUARD RAIL	B-BRICK ST-STUCCO	INTERSECTION ANGLE
WIRE FENCE	IRON PIPE	RADIUS
RAILROAD SNOW FENCE	STONE MONUMENT	TANGENT
BOARD OR HIGHWAY SNOW FENCE	WOOD STAKE OR HUB	LENGTH OF CURVE
STONE WALL OR FENCE	MEANDER CORNER	POINT OF CURVE
HEDGE		POINT OF TANGENT
WATER PIPE		POINT OF INTERSECTION
SEWER PIPE		VERTICAL CURVE
DRAIN TILE		BENCH MARK
GRAVEL PIT		ELEVATION
SAND PIT		ACRES
CLAY PIT		
ROCK QUARRY		
SPRINGS		
MARSH		

NOTE: SECTION NUMBERS SHOULD BE MADE TO READ FROM THE SOUTH

PIT DATA

MATERIAL TO BE OBTAINED FROM PITS DESIGNATED ON SHEET No. 2

PIT NO.	Located in
	Dead Haul
PIT NO.	Located in
	Dead Haul
PIT NO.	Located in
	Dead Haul
PIT NO.	Located in
	Dead Haul
PIT NO.	Located in
	Dead Haul
PIT NO.	Located in
	Dead Haul
PIT NO.	Located in
	Dead Haul
PIT NO.	Located in
	Dead Haul
PIT NO.	Located in
	Dead Haul

STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
CONSTRUCTION PLAN FOR
TRUNK HIGHWAY NO. 12-104
IN THE CITY OF ST. PAUL

From a point at the intersection of the center lines of University and Hamline Avenues To a point at the intersection of the center lines of University and Fairview Avenues.

MINNESOTA F.A.P. NO. _____, SECTION _____

GROSS LENGTH 5280.0 FEET 1.00 MILES
BRIDGES-LENGTH FEET MILES
EXCEPTIONS-LENGTH FEET MILES
NET LENGTH 5280.0 FEET 1.00 MILES

PLAN. 1 Inch=200 Feet
PROFILE. Horz. 1 Inch=200 Feet. Vert. 1 Inch=20 Feet
WORKING PLANS { Horz. 1 Inch=100 Feet
Vert. 1 Inch=10 Feet
Cross-Section. 1 Inch=10 Feet.

LAYOUT

Scale 1 Inch = 1200 Feet

Specifications approved by the Chief of Bureau Oct. 3rd, 1929 with revisions dated Aug. 1st, 1934 & approved Oct. 25th, 1935 to govern.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MINN.			1	6

PAVING

LETTING DATE	APPROVED	19	DISTRICT ENGINEER
GROSS LENGTH	5280.0	Feet	1.00 Miles
BRIDGES-LENGTH		Feet	Miles
EXCEPTIONS-LENGTH		Feet	Miles
NET LENGTH	5280.0	Feet	1.00 Miles

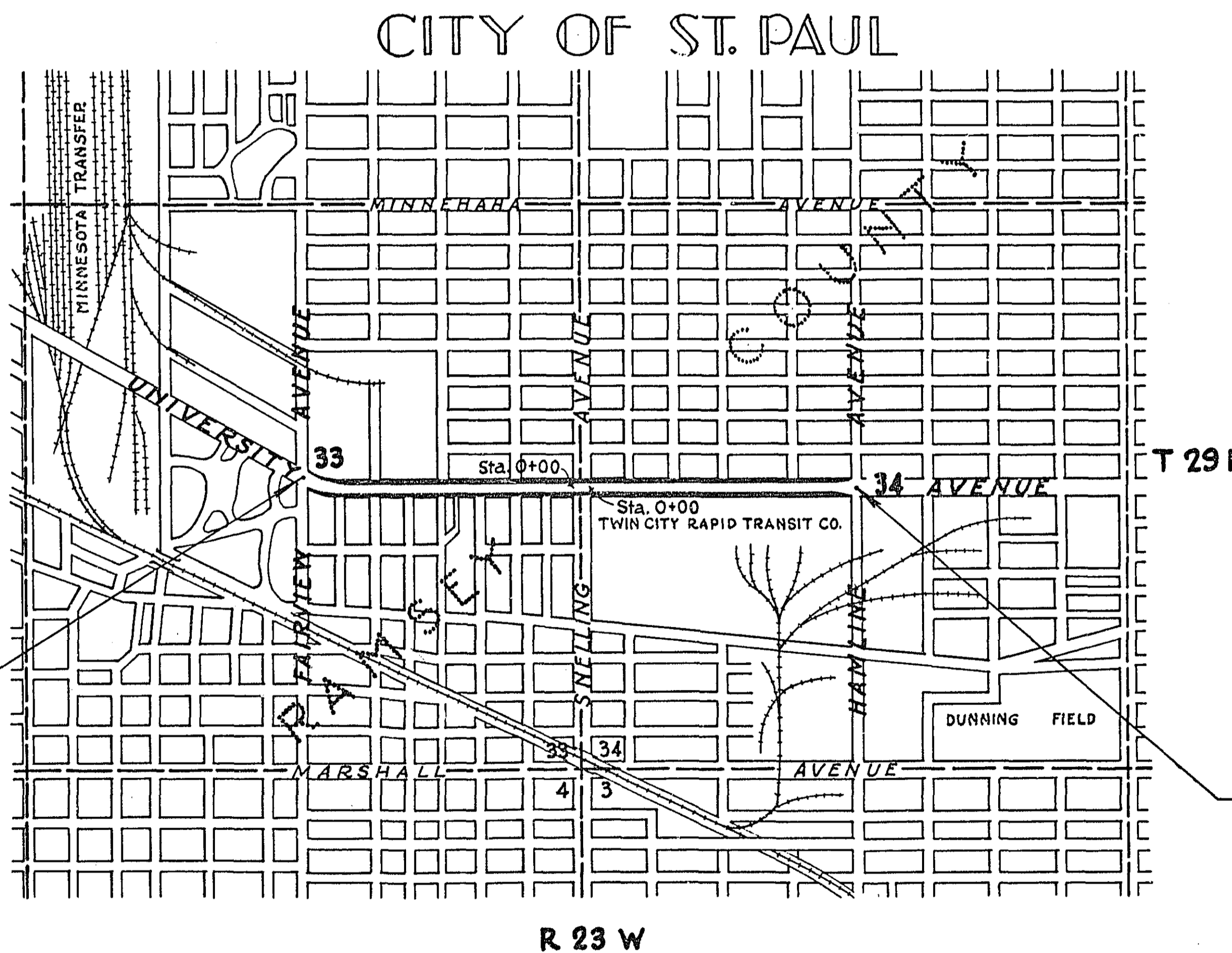
LETTING DATE	APPROVED	19	DISTRICT ENGINEER
GROSS LENGTH		Feet	Miles
EXCEPTIONS-LENGTH		Feet	Miles
NET LENGTH		Feet	Miles

LETTING DATE	APPROVED	19	DISTRICT ENGINEER
GROSS LENGTH		Feet	Miles
EXCEPTIONS-LENGTH		Feet	Miles
NET LENGTH		Feet	Miles

LETTING DATE	APPROVED	19	DISTRICT ENGINEER
GROSS LENGTH		Feet	Miles
EXCEPTIONS-LENGTH		Feet	Miles
NET LENGTH		Feet	Miles

LETTING DATE	APPROVED	19	DISTRICT ENGINEER
GROSS LENGTH		Feet	Miles
EXCEPTIONS-LENGTH		Feet	Miles
NET LENGTH		Feet	Miles

LETTING DATE	APPROVED	19	DISTRICT ENGINEER
GROSS LENGTH		Feet	Miles
EXCEPTIONS-LENGTH		Feet	Miles
NET LENGTH		Feet	Miles



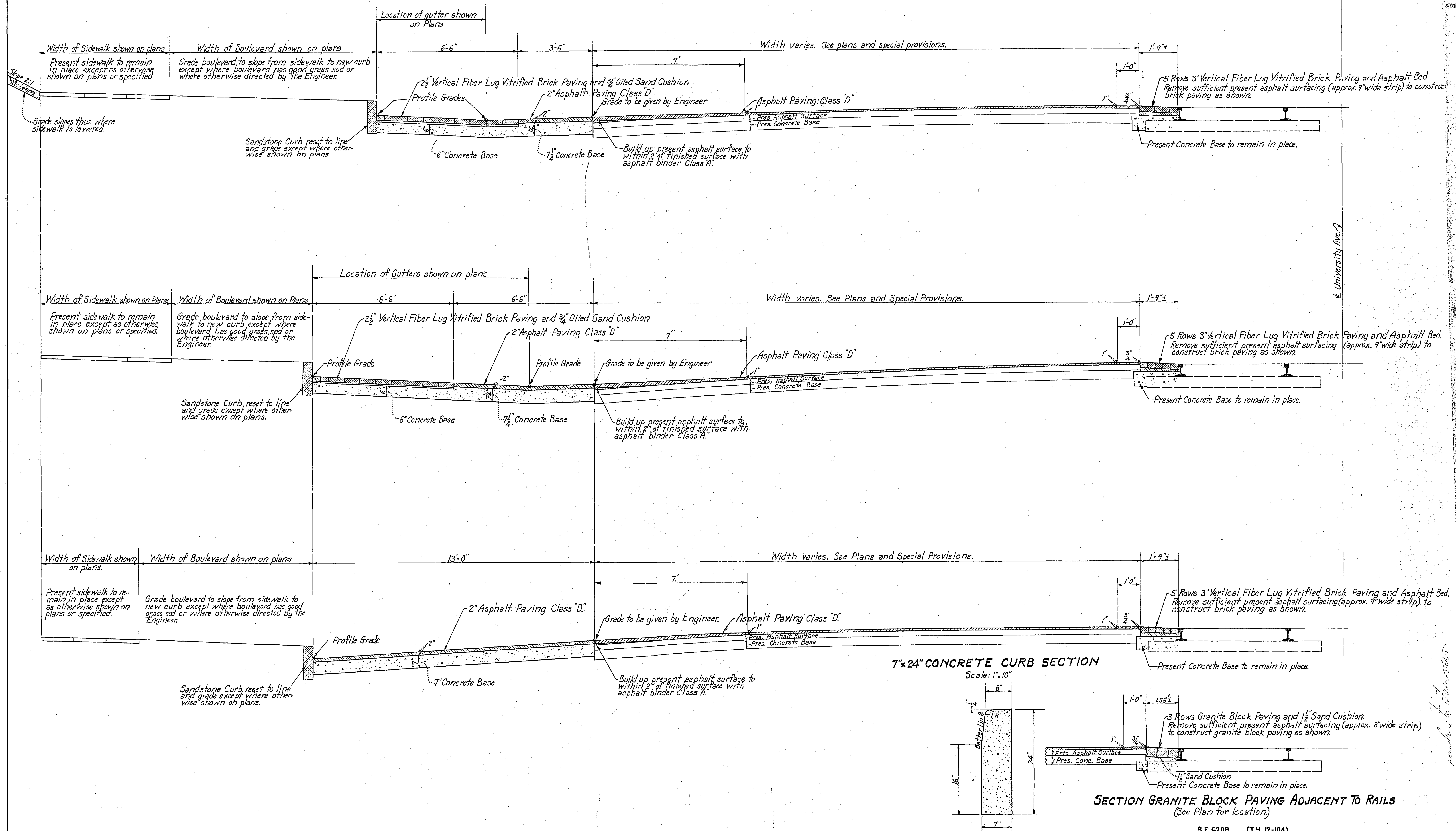
☐ OF FAIRVIEW AVE.
END OF S.P. 12-104-26
STA. 25+97.5

☐ OF HAMLINE AVE.
BEG. OF S.P. 12-104-26
STA. 25+82.5

Planned By C. W. Lilly
ENGINEER OF PLANS
Recommended for Approval _____
DISTRICT ENGINEER
Recommended for Approval J. P. Lewis
CONSTRUCTION ENGINEER
Approved 9-1-37 J. P. Lewis
CHIEF ENGINEER
Recommended for Approval _____
DISTRICT ENGINEER, S. OF P. R.
Recommended for Approval _____
CHIEF ENGINEER, S. OF P. R.
Approved _____
DIRECTOR, S. OF P. R.

TYPICAL GRADING & PAVING SECTION UNIVERSITY AVE.- FROM HAMLINE AVE. TO FAIRVIEW AVE.

Scale: $\frac{1}{2}$ "=1'-0"

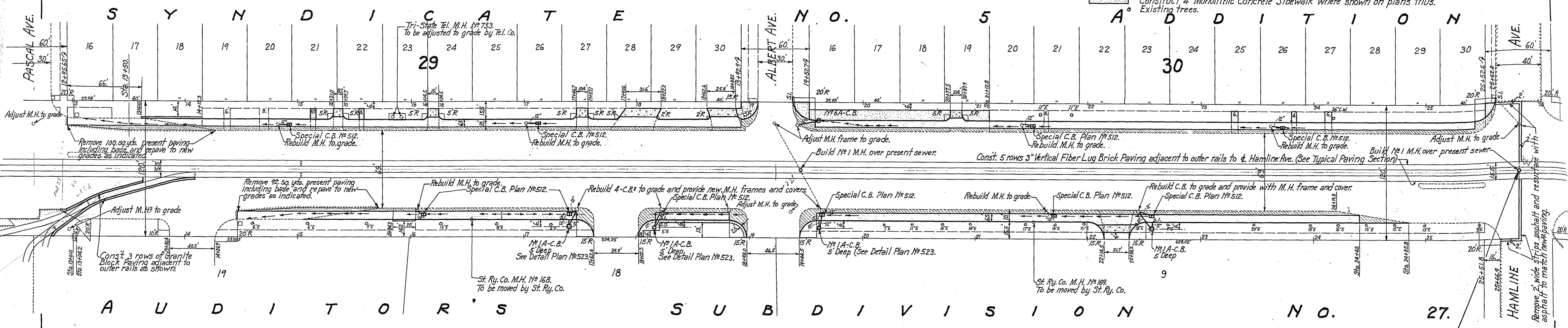


NOTE
Surface entire present asphalt pavement from & Hamline Ave. to & Fairview Ave. with asphalt. See Typical Grading and Paving Section and Special Provisions.

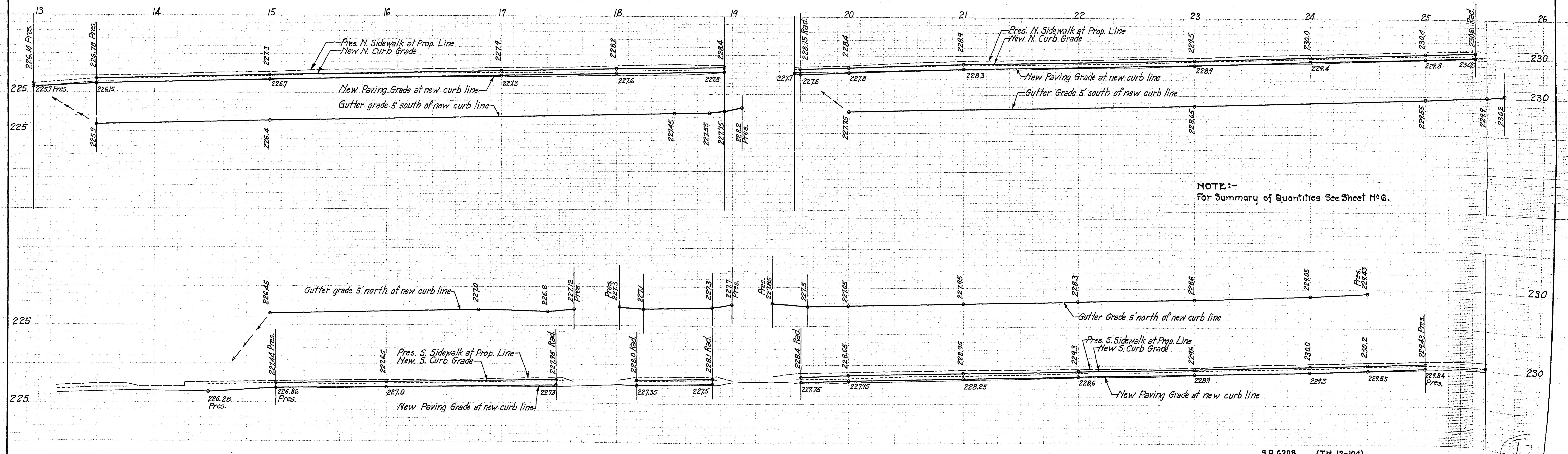
GRADING & PAVING PLANS WIDENING ROADWAY ON UNIVERSITY AVE. FROM HAMLINE AVE. TO FAIRVIEW AVE.

Scale 1"=40'. Field Books No 1312-1321.

- EXPLANATION OF CONVENTIONAL SIGNS USED ON ATTACHED PLANS**
- Construct 2" Asphalt Paving and new Concrete Base where shown on plans by hatched areas.
 - Construct 2 1/2" Brick Paving - 3/4" Oiled Sand Cushion and new Concrete Base where shown on plans by Dotted areas.
 - Construct 6" Monolithic Concrete Driveways where shown on plans thus.
 - Construct 4" Monolithic Concrete Sidewalk where shown on plans thus.



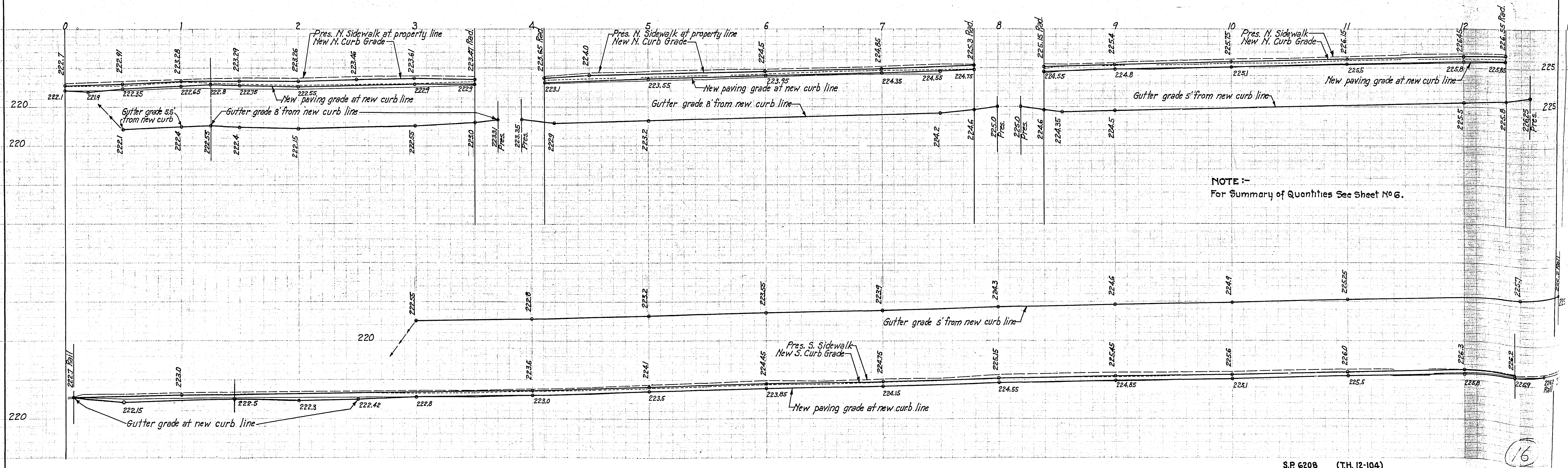
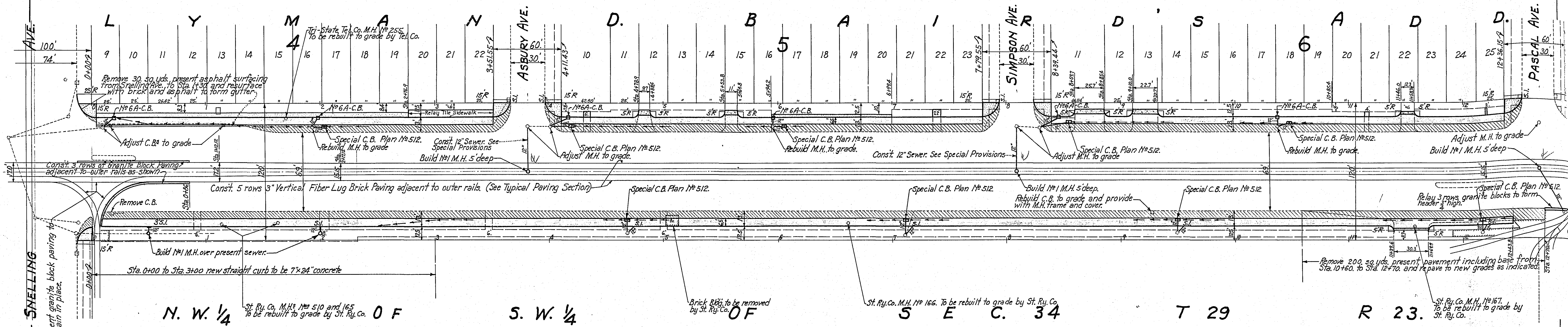
STA 25 + 82.5
BEG OF S.P. 12-104-26



NOTE:-
For Summary of Quantities See Sheet No 6.

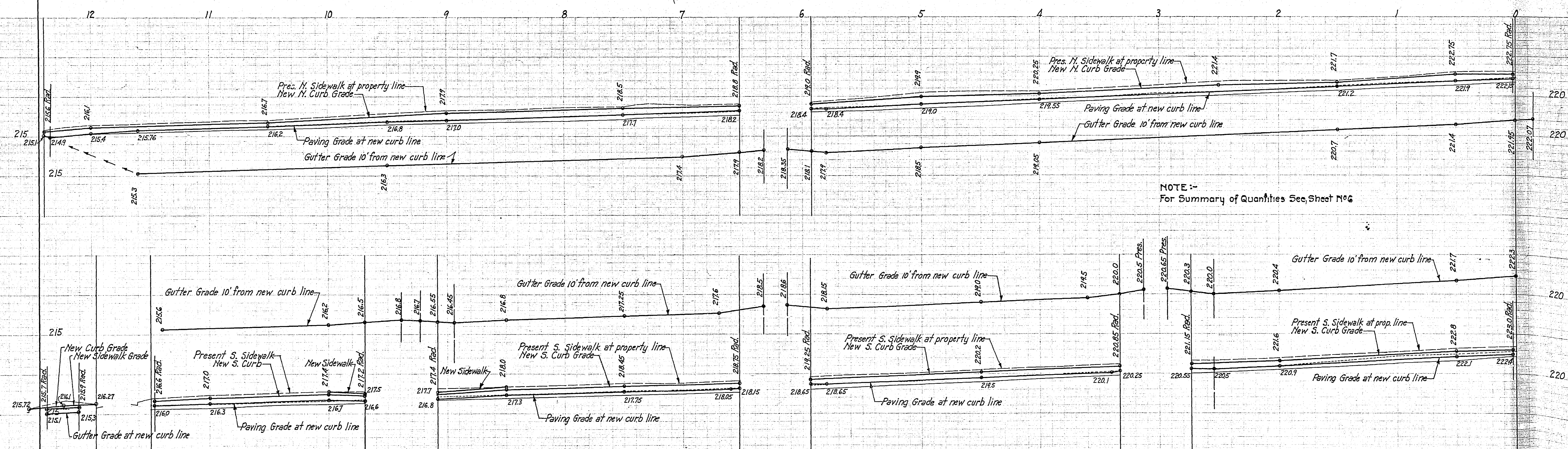
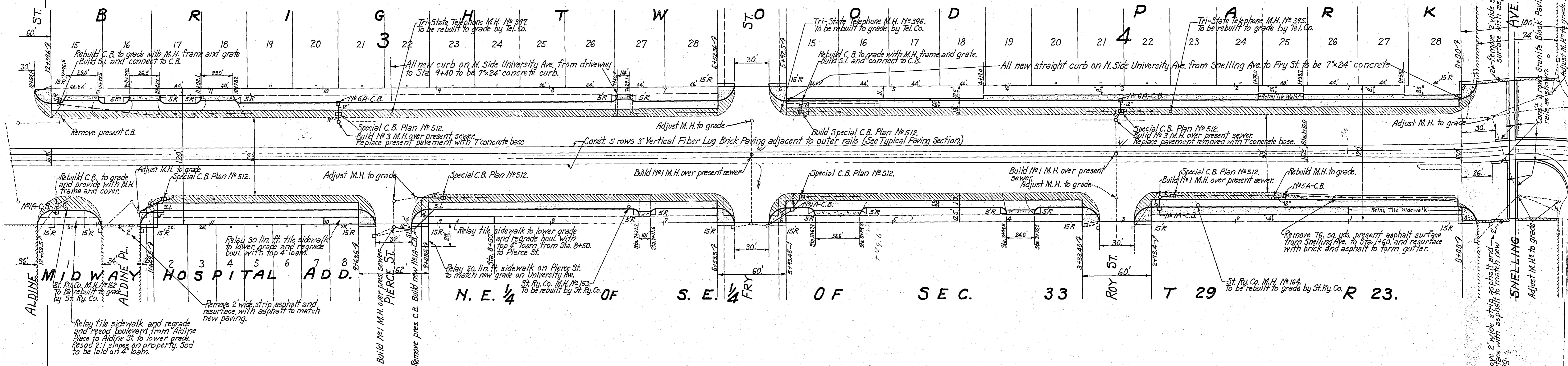
72-10

GRADING & PAVING PLANS
WIDENING ROADWAY ON UNIVERSITY AVE.
 FROM HAMLINE AVE. TO FAIRVIEW AVE.
 Scale 1"=40' Field Books No 1312-1321.



GRADING & PAVING PLANS WIDENING ROADWAY ON UNIVERSITY AVE. FROM HAMLIN AVE. TO FAIRVIEW AVE.

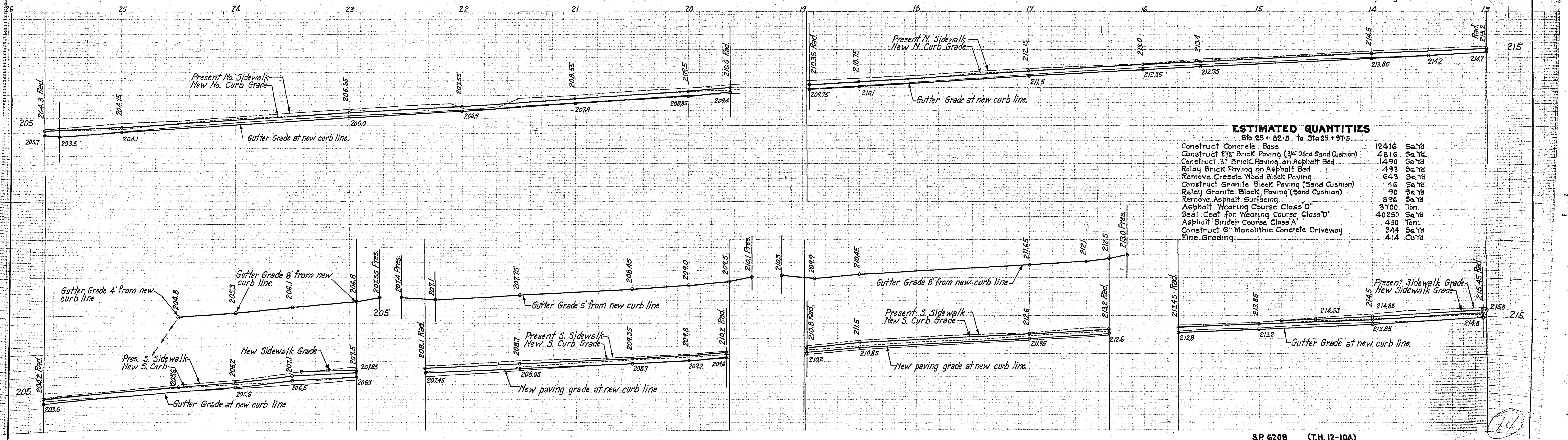
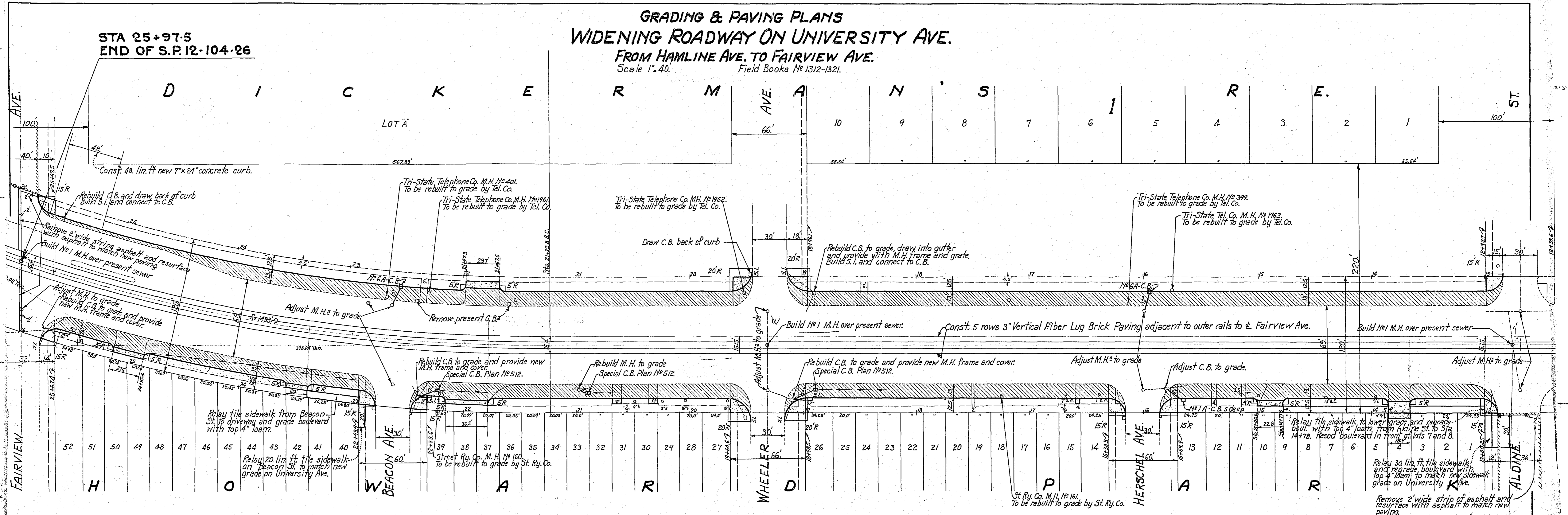
Scale 1"=40' Field Books No 1312-1321.



NOTE:-
For Summary of Quantities See Sheet No 6

GRADING & PAVING PLANS WIDENING ROADWAY ON UNIVERSITY AVE. FROM HAMLINE AVE. TO FAIRVIEW AVE.

Scale 1" = 40'. Field Books No 1312-1321.



ESTIMATED QUANTITIES

Sta 25+82.5 to Sta 25+97.5

Construct Concrete Base	12416	Sa. Yd.
Construct 2 1/2" Brick Paving (3/4" Oiled Sand Cushion)	4816	Sa. Yd.
Construct 3" Brick Paving on Asphalt Bed	1498	Sa. Yd.
Relay Brick Paving on Asphalt Bed	493	Sa. Yd.
Remove Grade Wood Block Paving	643	Sa. Yd.
Construct Granite Block Paving (Sand Cushion)	46	Sa. Yd.
Relay Granite Block Paving (Sand Cushion)	90	Sa. Yd.
Remove Asphalt Surfacing	896	Sa. Yd.
Asphalt Wearing Course Class 'D'	3700	Ton.
Seal Coat for Wearing Course, Class 'D'	40250	Sa. Yd.
Asphalt Binder Course Class 'A'	450	Ton.
Construct 6" Monolithic Concrete Driveway	344	Sa. Yd.
Fine Grading	4.14	Cu. Yd.