

PLANS SYMBOLS

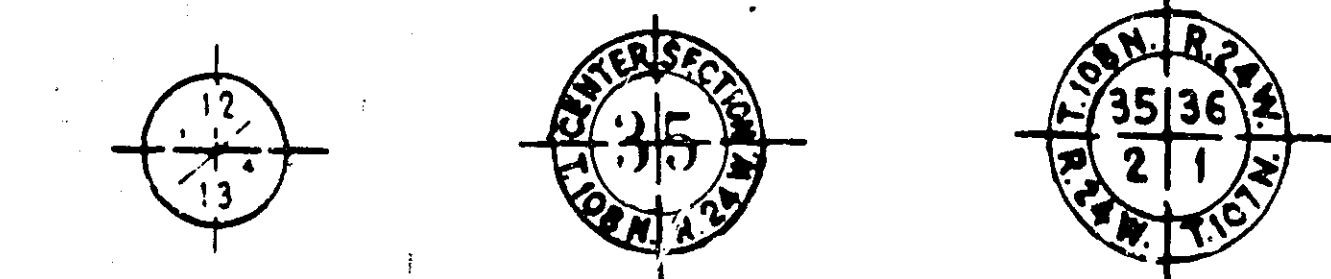
STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
CONTROL OF ACCESS LINE
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT OF WAY LINE
RIVER OR CREEK
DRY RUN
DRAINAGE DITCH
DRAIN TILE
CULVERT
DROP INLET
GUARD RAIL
BARBED WIRE FENCE
WOVEN WIRE FENCE
CHAIN LINK FENCE
RAILROAD SHOW FENCE
STONE WALL OR FENCE
HEDGE
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL
ELECTRIC WARNING SIGN
CROSSING GATE
MEANDER CORNER

SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH
NURSERY
CATCH BASIN
FIRE HYDRANT
CATTLE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame)
F FRAME C-CONCRETE
S STONE T TILE
B-BRICK ST-STUCCO
IRON PIPE OR ROD
MONUMENT (STONE, CONCRETE, OR METAL)
WOODEN HUB
GRAVEL PIT
SAND PIT
BORROW PIT
ROCK QUARRY

UTILITIES SYMBOLS

POWER POLE LINE
TELEPHONE OR TELEGRAPH
POLE LINE
JOINT TELEPHONE AND POWER
ON POWER POLES
ON TELEPHONE POLES
ANCHOR
STEEL TOWER
STREET LIGHT
PEDESTAL TELEPHONE CABLE
TERMINAL
GAS MAIN
WATER MAIN

CONDUIT
TELEPHONE CABLE IN CONDUIT
ELECTRIC CABLE IN CONDUIT
TELEPHONE MANHOLE
ELECTRIC MANHOLE
BURIED TELEPHONE CABLE
BURIED ELECTRIC CABLE
AERIAL TELEPHONE CABLE
SEWER (SANITARY OR STORM)
SEWER MANHOLE



NOTE: SECTION NUMBERS READ FROM THE SOUTH

PIT DATA

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

SPECIFICATIONS
THE "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION"
DATED JANUARY 1, 1968 AS AMENDED BY SUPPLEMENTAL
SPECIFICATIONS DATED JULY 1, 1969 SHALL GOVERN.

OFFICE OF COUNTY ENGINEER

RAMSEY COUNTY

CONSTRUCTION PLAN
FOR GRADING AND CONCRETE SURFACING

WHITE BEAR AVE.

BETWEEN: FLORAL DR. AND T.H. 61

FROM: A POINT 247 FEET NORTH
OF THE SOUTH 1/4 CORNER
OF SECTION 23, T.30N., R.22 W.
TO: A POINT 408 FEET NORTH OF
AND 1189 FEET WEST OF THE CENTER
OF SECTION 23, T.30N., R.22 W.

GROSS LENGTH 5091.77 FEET 0.964 MILES
BRIDGES - LENGTH 0.0 FEET 0.0 MILES
EXCEPTIONS - LENGTH 0.0 FEET 0.0 MILES
NET LENGTH 5091.77 FEET 0.964 MILES

PLAN, 1 inch = 50 Feet
PROFILE, Horiz. 1 inch = 50 Feet Vert. 1 inch = 5 Feet
CROSS-SECTIONS, 1 inch = 10 Feet
LAYOUT, 0.75 inch = 5280 Feet

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTION AND ESTIMATED QUANTITIES
3	DRAINAGE CHART AND DETAILS
4	CLEARING AND GRUBBING CHART AND DETAILS
5-8	PLAN PROFILES
9-10	CONSTRUCTION PLANS
11-20	CROSS SECTIONS

DESIGN	DESIGNATION
A.D.T. 1965	= 6,500
A.D.T. 1985	= 13,400
D.H.V.	
D (DIRECTIONAL DISTRIBUTION)	= 50-50
T (HEAVY COMMERCIAL)	= 700
DESIGN SPEED = 30 M.P.H.	STA. 164+18 TO STA. 184+00
40 M.P.H.	STA. 211+00 TO STA. 215+09.77
DESIGN LOAD = 9 TON	STA. 184+00 TO STA. 211+00
SOIL FACTOR = 100%	

RECOMMENDED FOR APPROVAL _____ DATE _____
DIRECTOR OF SAFETY
RECOMMENDED FOR APPROVAL _____ DATE _____
MAINTENANCE ENGINEER
RECOMMENDED FOR APPROVAL _____ DATE _____
CONSTRUCTION ENGINEER
RECOMMENDED FOR APPROVAL _____ DATE _____
RECOMMENDED FOR APPROVAL _____ DATE _____
APPROVED _____ DATE _____
COUNTY ENGINEER

RECOMMENDED FOR APPROVAL _____ DATE 2/12/71
COUNTY ENGINEER
APPROVED _____ DATE 2/22/71
VICE CHAIRMAN OF THE RAMSEY COUNTY BOARD

APPROVED _____ DATE _____
MAYOR, CITY OF WHITE BEAR LAKE

MINNESOTA STATE HIGHWAY DEPARTMENT
RECOMMENDED FOR APPROVAL _____ DATE 8-30-71
DISTRICT STATE AID ENGINEER
RECOMMENDED FOR APPROVAL _____ DATE 3/9/71
DISTRICT STATE AID ENGINEER
APPROVAL _____ DATE 8/21/71
STATE AID ENGINEER

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED
BY ME OR UNDER MY DIRECT SUPERVISION AND THAT
I AM A DULY REGISTERED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE 2-11-71 REG. NO. 2042

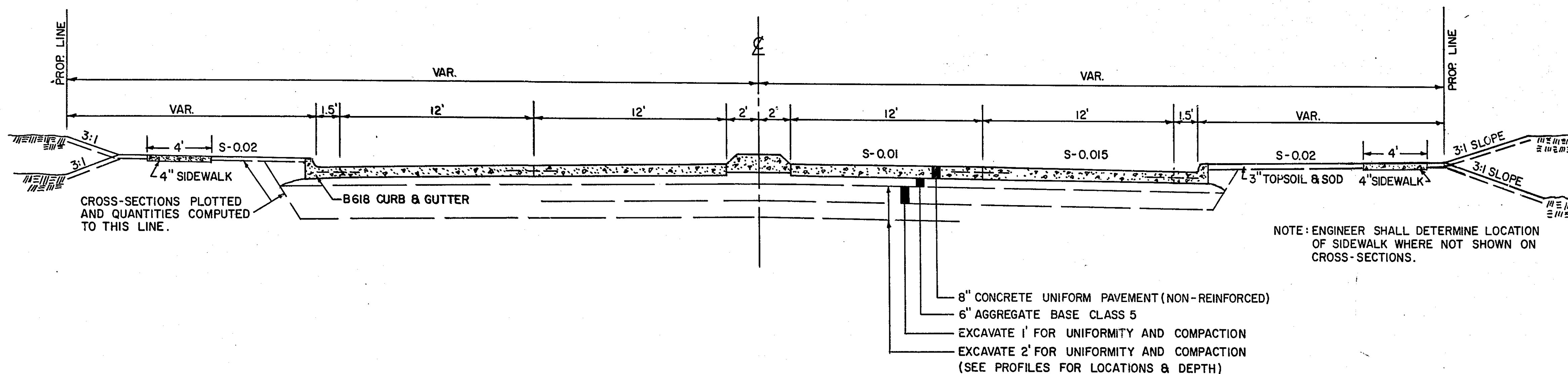
STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	S.P. 62-665-12 ESTIMATED QUANTITIES	NON-PARTICIPATING PORTION
2021.501	MOBILIZATION	LUMP SUM	1	
2101.502	CLEARING	TREE	129	
2101.507	GRUBBING	TREE	110	
2104.502	REMOVE PAVEMENT	SQ. YD.	5659	
2104.506	REMOVE SIDEWALK	SQ. FT.	135	
2104.520	REMOVE CONCRETE STEPS	STRUCTURE	1	
2105.501	COMMON EXCAVATION	CU. YD.	22,410	
2105.511	COMMON CHANNELED EXCAVATION	CU. YD.	1526	
2105.525	TOPSOIL BORROW	CU. YD.	1242	
2105.528	GRANULAR BORROW EXCAVATION	CU. YD.	101,057	
2130.501	WATER	(M) GAL	400	
2211.501	AGGREGATE BASE, CLASS 5	TON	9500	
2211.502	AGGREGATE BASE, CLASS 2	TON	100	
2301.502	CONCRETE PAVEMENT, STANDARD WIDTH	SQ. YD.	28,041	
2301.503	CONCRETE PAVEMENT, IRREGULAR WIDTH	SQ. YD.	542	
2301.511	STRUCTURAL CONCRETE	CU. YD.	6,354	
2301.529	REINFORCEMENT BARS	POUND	21,500	
2301.531	STANDARD JOINTS, DESIGN C	LIN. FT.	12,928	
2301.531	STANDARD JOINTS, DESIGN LIT	LIN. FT.	10,184	
2301.531	STANDARD JOINTS, DESIGN L2KT	LIN. FT.	11,048	
2301.531	STANDARD JOINTS, DESIGN L3	LIN. FT.	490	
2341.504	BIT. MATERIAL FOR MIXTURE	TON	42	
2341.508	WEARING COURSE MIXTURE	TON	316	
2341.510	BINDER COURSE MIXTURE	TON	470	
2357.502	BIT. MATERIAL FOR TACK COAT	GAL	144	
2358.501	BIT. MATERIAL FOR PRIME COAT	GAL	863	
2411.507	CONCRETE STEPS	STRUCTURE	1	
2503.502	12" REINFORCED CONCRETE SEWER CL IV	LIN. FT.	344	
2503.502	15" REINFORCED CONCRETE SEWER CL III	LIN. FT.	474	
2503.502	18" REINFORCED CONCRETE SEWER CL III	LIN. FT.	54	
2503.502	21" REINFORCED CONCRETE SEWER CL III	LIN. FT.	258	
2503.502	24" REINFORCED CONCRETE SEWER CL III	LIN. FT.	479	
2501.536	12" CONCRETE APRONS	APRON	2	
2501.536	15" CONCRETE APRONS	APRON	4	
2501.536	27" CONCRETE APRONS	APRON	1	
2501.536	21" CONCRETE APRONS	APRON	6	
2501.536	24" CONCRETE APRONS	APRON	1	
2506.509	CONST. CATCH BASINS, DESIGN LP4-N	STRUCTURE	4	
2506.509	CONST. CATCH BASINS, DESIGN RC-2	STRUCTURE	10	
2506.509	CONST. CATCH BASINS, DESIGN RC-2M	STRUCTURE	8	
2506.511	RECONSTRUCT MANHOLE	LIN. FT.	2.3	
2506.516	CASTING ASSEMBLIES	ASSEMBLIES	9	
2506.521	INSTALL CASTINGS	ASSEMBLIES	4	
2506.522	ADJUST FRAME AND RING CASTING	ASSEMBLIES	12	
2511.501	RANDOM RIPRAP, CLASS A	CU. YD.	3,000	
2531.501	CONCRETE CURB AND GUTTER, DESIGN B618	LIN. FT.	10,251	
2531.502	CONCRETE CURB, DESIGN S-5	LIN. FT.	2,746	
2531.505	CONCRETE MEDIAN	LIN. FT.	3,664	
2554.501	TRAFFIC BARRIER, DESIGN A 8307	LIN. FT.	3,320	
2554.521	ANCHORAGE ASSEMBLIES	ASSEMBLIES	8	
2575.505	SODDING	SQ. YD.	14,900	
2575.531	COMMERCIAL FERTILIZER ANALYSIS 12-12-12	TON	1.1	
2521.501	4" CONCRETE WALK	SQ. FT.	9,288	
2521.501	6" CONCRETE WALK (ENT)	SQ. FT.	1,376	
565.632	CONCRETE HANDHOLES	HANDHOLES	10	
565.635	RIGID METALLIC CONDUIT, 3"	LIN. FT.	454	
104.604	REMOVE HYDRANT	EACH	1	
504.666	INSTALL HYDRANT	EACH	1	
504.679	ADJUST VALVE BOX	BOX	35	
123.603	RENTAL BACKHOE	HOURLY	25	
503.698	SEWER INSULATION	LIN. FT.	50	
504.652	WATER MAIN INSULATION (CONNECTIONS)	S.Y.	22	
2554.501	TRAFFIC BARRIER, DESIGN 8320	L.F.	425	
2506.506	CONSTRUCT MANHOLES, DESIGN A OR F	L.F.	29	
2503.502	27" REINFORCED CONCRETE SEWER CL III	L.F.	34	

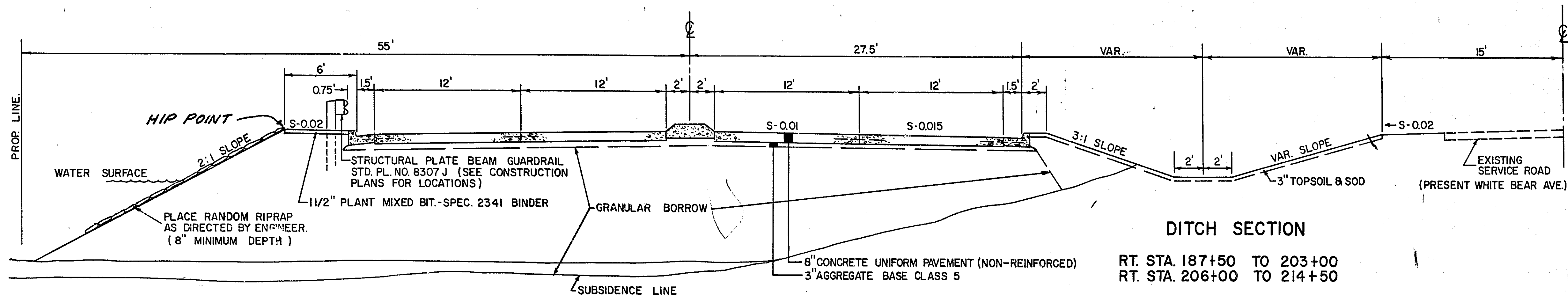
STANDARD PLATE DESIGN

4000G	MANHOLE OR CATCH BASIN
4005H	MANHOLE OR CATCH BASIN
4180F	MANHOLE STEP CASTING
1016D	CONCRETE PAVEMENTS NON-REINFORCED
1120L	CONTRACTION JOINTS
1140K	LONGITUDINAL JOINTS
1141B	PAVEMENT KEYWAY FOR KEYED JOINT CONSTRUCTION
1150L	CONSTRUCTION OF HEADER JOINTS
3000F	REINFORCED CONCRETE PIPE
3100F	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3133A	RIPRAP AT R.C.P. OUTLET
4016C	CURB OPENING CATCH BASIN
4102C	MANHOLE OR CATCH BASIN RING CASTING
4108C	AUXILIARY CASTING FOR MANHOLE RING EXTENSION
4110D	COVER CASTING FOR MANHOLE
7020E	CONCRETE CURBS
7035G	CONCRETE WALK & CURB RETURNS AT ENTRANCES
7065C	BITUMINOUS CURB
7100D	CONCRETE CURB & GUTTERS
7105C	CONCRETE MEDIAN
8000C	STANDARD BARRICADES
8008D	CONTRACTOR'S SIGN
8117B	PRECAST CONCRETE HANDHOLE
8307J	STRUCTURAL PLATE BEAM GUARDRAIL
8314B	3-CABLE GUARDRAIL DETAILS (FOR ANCHORAGE ASSEMBLY ONLY)
8316B	MISC. GUARDRAIL HARDWARE
8319C	TWISTED END TREATMENT
9102C	SODDING AT PIPE CULVERT ENDS
3145A	CONCRETE PIPE JOINT TIES
8320A	STEEL BOX BEAM BARRIER

TYPICAL SECTIONS

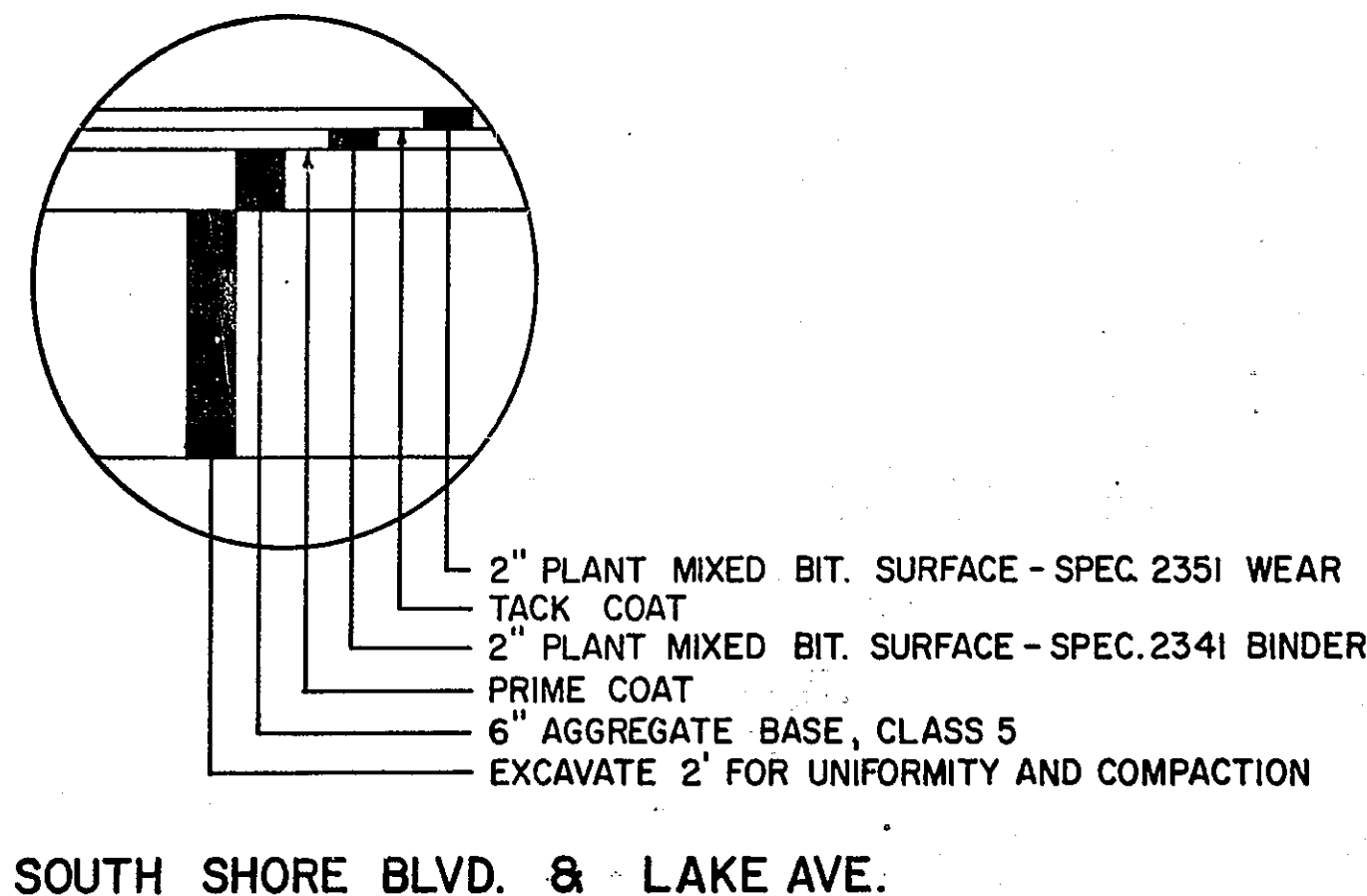
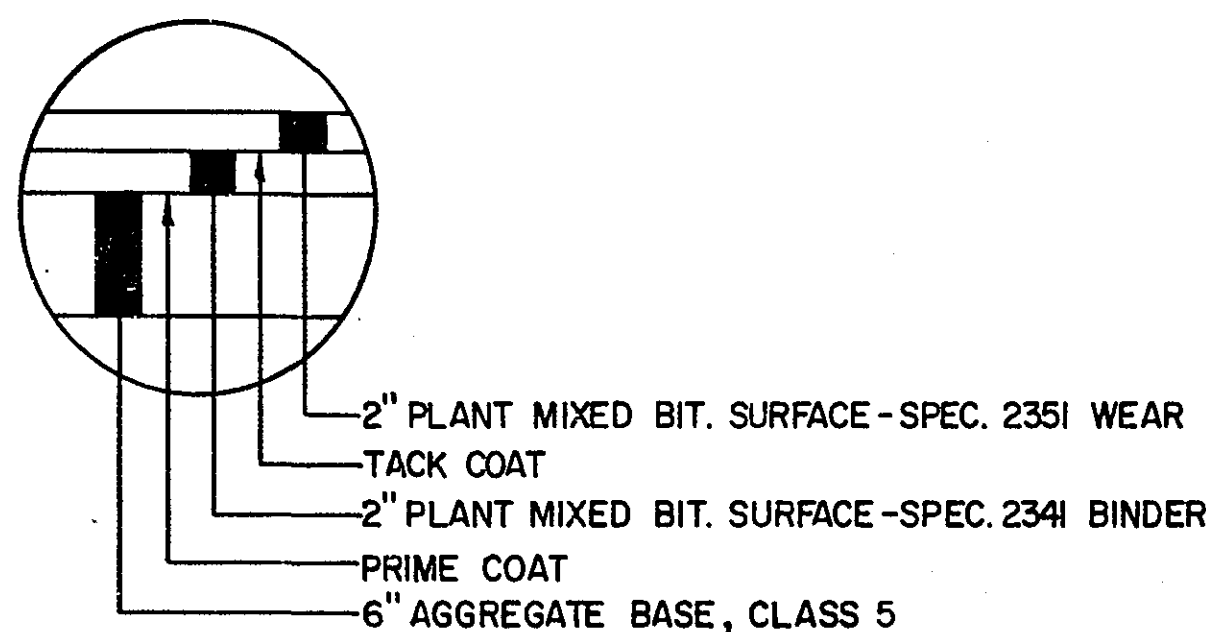
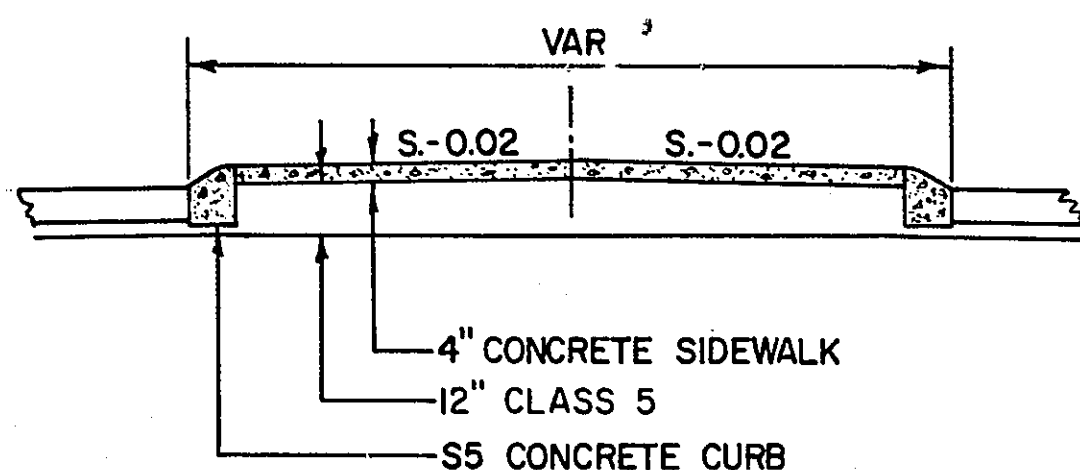
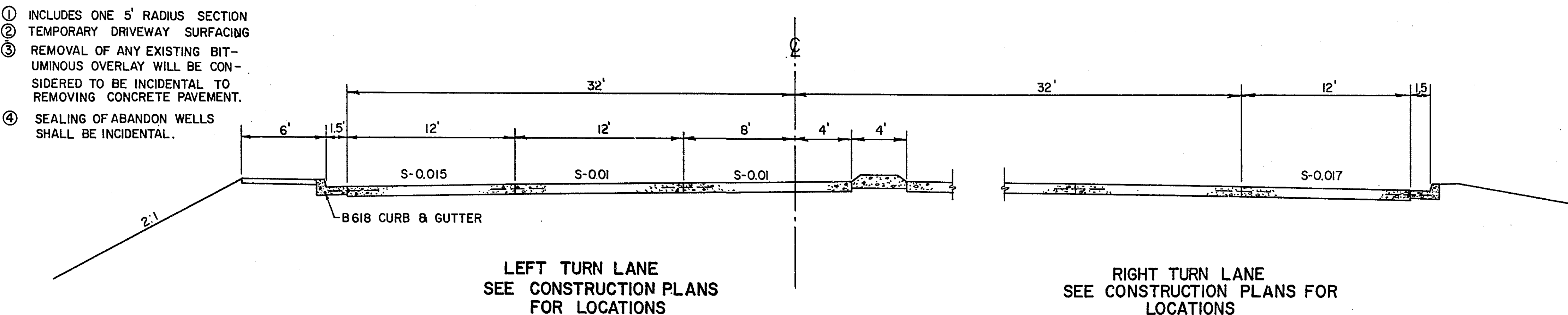


STA 164+18 TO STA 184+25



DITCH SECTION

STA 184+25 TO STA 215+10



OF DRAIN STA. 207+85 RT62

The image contains two technical drawings of a boulevard intersection.

HALF PLAN: This drawing shows the layout of the intersection. A "BOULEVARD" approaches from the bottom left, turning right to meet a "PROP. LINE" (Proposed Line) running horizontally at the top. A "FUTURE SIDEWALK" is shown along the proposed line. Key dimensions and features include:

- A "3' TAPER IN" at the intersection point.
- A "GUTTER LINE" and "FACE OF CURB" at the bottom.
- A "1.5'" offset from the curb to the gutter line.
- A "W" dimension for the boulevard width.
- A "4'L" dimension for the proposed line offset.
- Section lines A-A and B-B are indicated.

SECTION A-A: This cross-section shows the vertical profile of the boulevard. It includes:

- "BLVD. GRADE" at the top.
- A "1.5'" vertical offset from the grade to the surface.
- A "W" dimension for the width of the boulevard.
- A "2" BIT. SURFACE" (2-inch bituminous surface).
- A "4" CLASS 5 GRAVEL BASE" (4-inch class 5 gravel base).
- A "H" dimension for the height of the base.

SECTION C-C: This cross-section shows the vertical profile of the curb and gutter. It includes:

- A "CURB" and "GUTTER LINE" at the bottom.
- A "3'" dimension for the curb width.
- A "VAR." (variable) dimension for the distance from the curb to the centerline.

NOTE: D=RESIDENTIAL 5' COMMERCIAL IS MIN. 5'
MAX. 15' ALL TO BE VARIFIED BY THE ENG.
W=RESIDENTIAL IS 8' MIN., 11' MAX. COMMERCIAL
IS 16' FOR 90°, 13' FOR 60° THE
EXACT LOCATION AND WIDTH OF ENTRANCES
SHALL BE DETERMINED IN THE FIELD BY
THE ENGINEER.

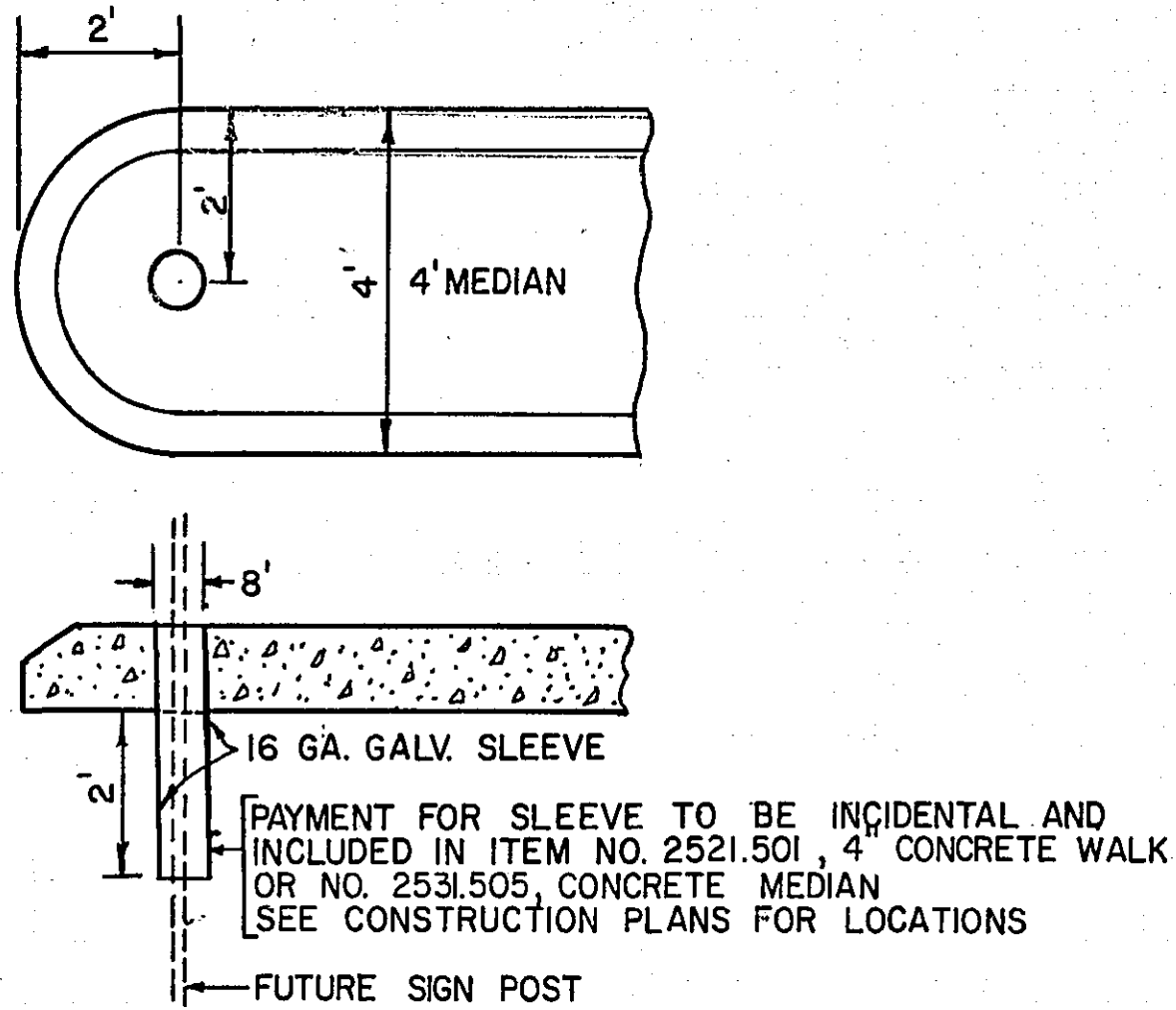
The drawing consists of three views of a drainage structure:

- FRONT VIEW:** Shows a cross-section of the structure. It features a central circular opening with a diameter of 3 feet. The structure is built with 8-inch brick, concrete, or block walls. The top is a concrete curb with a normal gutter line. The width of the structure is 3 feet, and the height of the walls is 8 feet. The bottom is a concrete surface. The distance from the gutter line to the top of the wall is 2 feet. The distance from the gutter line to the bottom of the wall is 4 feet. The distance from the gutter line to the center of the opening is 3 feet.
- SIDE VIEW:** Shows a side elevation of the structure. It features a normal crown with a slope of 1.5. The width of the structure is 2 feet. The height of the walls is 8 feet. The bottom is a concrete surface. The distance from the gutter line to the top of the wall is 2 feet. The distance from the gutter line to the bottom of the wall is 4 feet. The distance from the gutter line to the center of the opening is 3 feet.
- TOP VIEW:** Shows a plan view of the structure. It features a central circular opening with a diameter of 3 feet. The structure is built with 8-inch brick, concrete, or block walls. The width of the structure is 3 feet, and the height of the walls is 8 feet. The bottom is a concrete surface. The distance from the gutter line to the top of the wall is 2 feet. The distance from the gutter line to the bottom of the wall is 4 feet. The distance from the gutter line to the center of the opening is 3 feet.

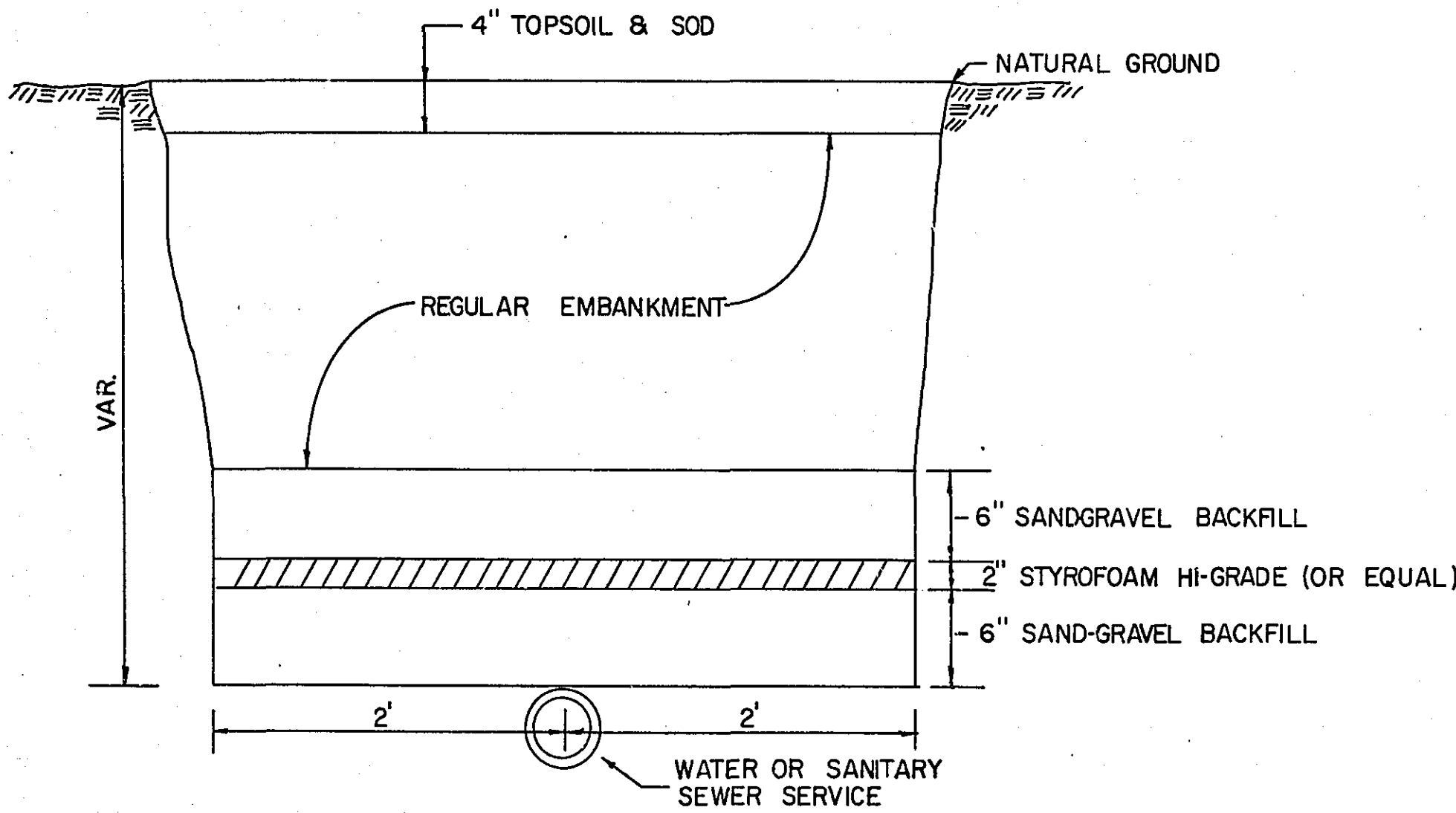
CATCH BASIN DESIGN NO. R.C.-2M
THE BLOCK, BRICK, OR CONCRETE CONSTRUCTION SHALL BE THE SAME AS THE R.C.-2.
THE FRAME & GRATE SHALL BE NEENAH R-3516 OR EQUAL.

70-101

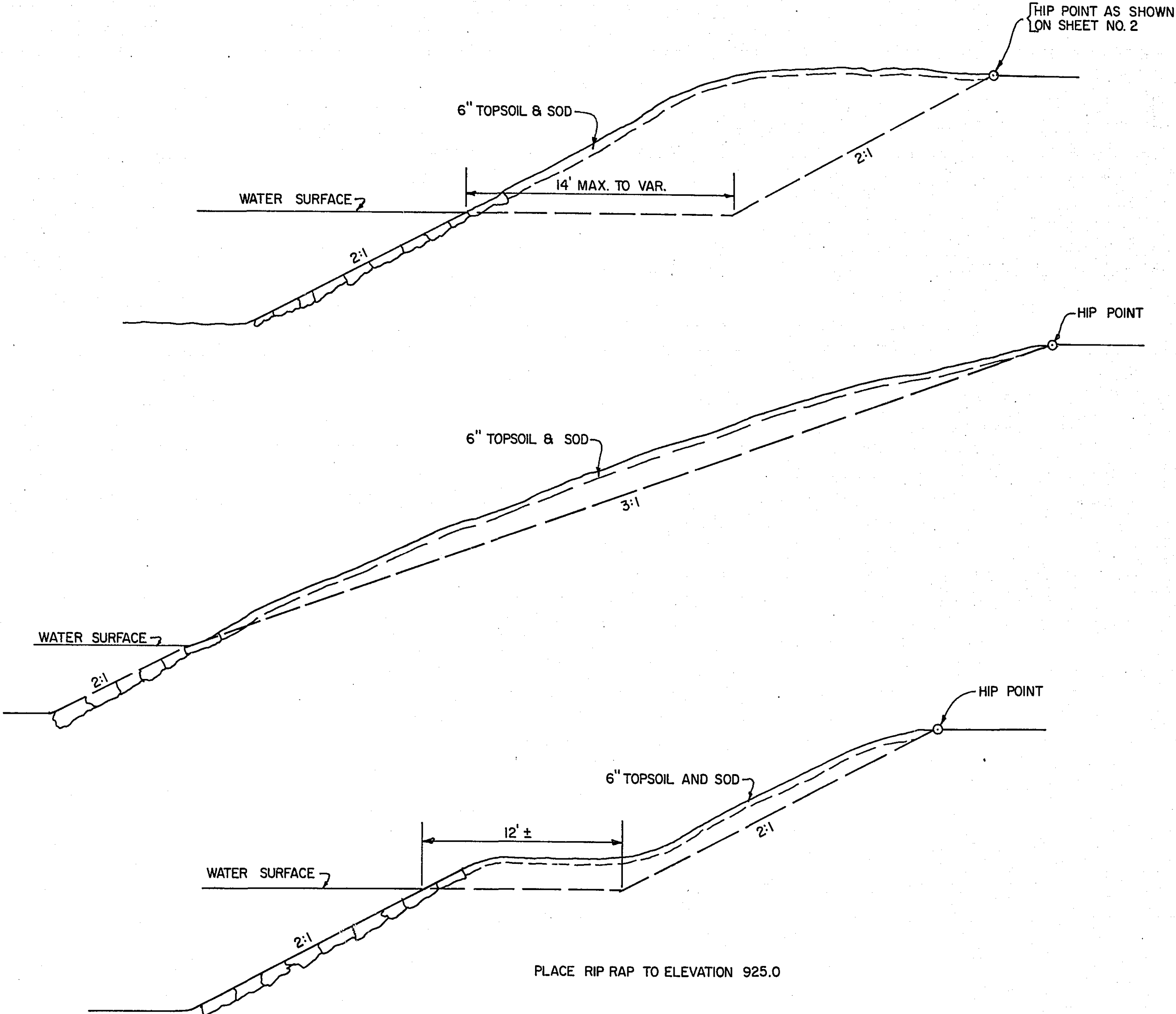
CLEARING & GRUBBING					
STATION	LOCATION		TYPE	CLEAR	GRUB
	LT	RT			
167+60	22		14"OAK		
167+81	30		20"OAK		
168+05	27		20"OAK		
168+15	29		30"OAK		
166+95		28	24"OAK		
168+63		36	24"OAK		
168+89		37	36"OAK		
169+32		34	36"OAK		
170+13		35	36"OAK		
169+56		38	30"OAK		
170+89		43	4"ELM		
169+45	31		8"MAPLE		
169+62	29		STUMP	0	
170+86	38		6"SPRUCE		
171+82		33	6"PINE		
171+90		42	10"ELM		
172+29		36	6"PINE		
173+17		33	8"PINE		
173+62		29	34"OAK		
174+36		30	16"OAK		
174+60		44	12"COTT		
174+80		32	30"OAK		
175+90	32		14"OAK		
176+74		32	38"ELM		
177+52		44	24"OAK		
177+93		41	24"POP		
176+17	35		STUMP	0	
176+41	31		18"OAK		
176+82	34		STUMP	0	
176+88	40		STUMP	0	
178+17	33		STUMP	0	
178+62	32		4"ELM		
179+86	40		30"OAK		
180+56	38		STUMP	0	
180+56	38		4"ASH		
180+84	36		36"OAK		
182+25	45		6"ASH		
182+30	58		10"ASH		
183+20	40		12"WILL		
183+37	15		6"BE		
184+00	15		4-6"WILL	4	
184+19	19		2-4"BE	2	
188+05	25		8-8"WILL	8	8
188+40	18		12"WILL		
189+40	3		16"WILL		
190+30	5		3-10"WILL	3	3
191+33		5	10"WILL		
197+30	27		5"BE		
197+45	34		4"MAPLE		
197+90	25		10"WILL		
198+25	27		TRI 10"WILL	3	
198+46	27		8"WILL		
199+00	30		10"WILL	2	
200+10	32		4"LOCUS		
200+66	32		24"COTT		
203+44	43		6"LOCUS		
203+60	37		10"LOCUS	2	
205+40	44		10"LOCUS		
206+15	45		6"LOCUS		
214+20	40		STUMP	0	
214+40	15		10"WILL		
191+50-197+00	RT.		TREES	59	41
TOTAL				129	110



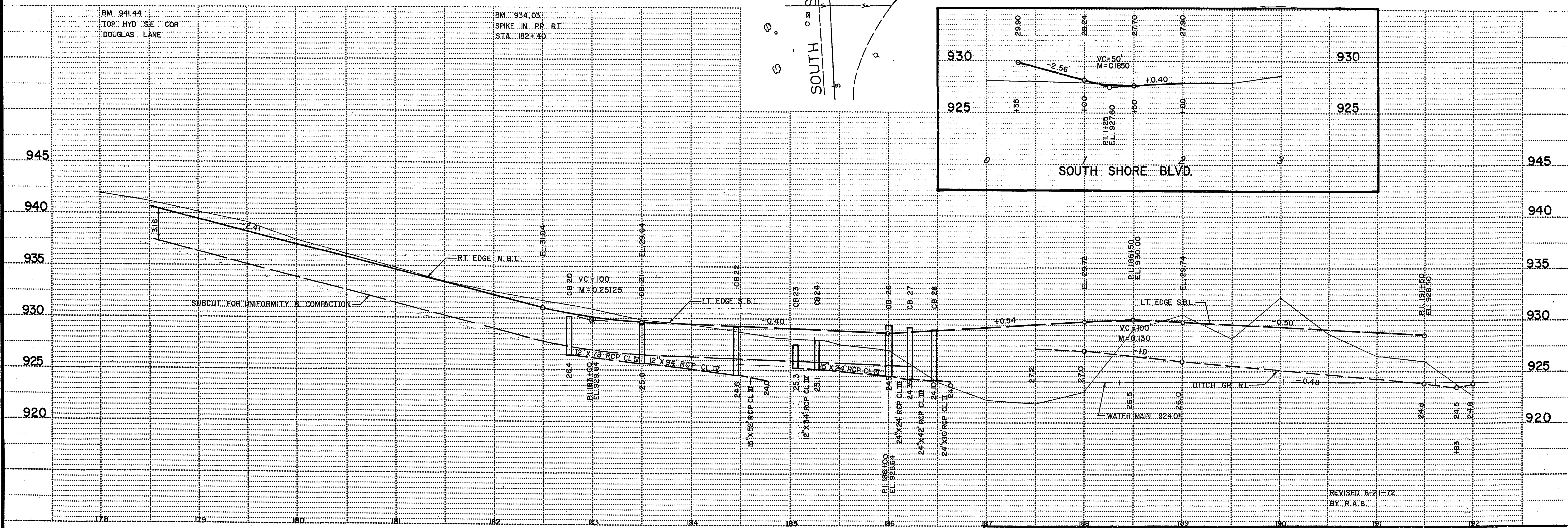
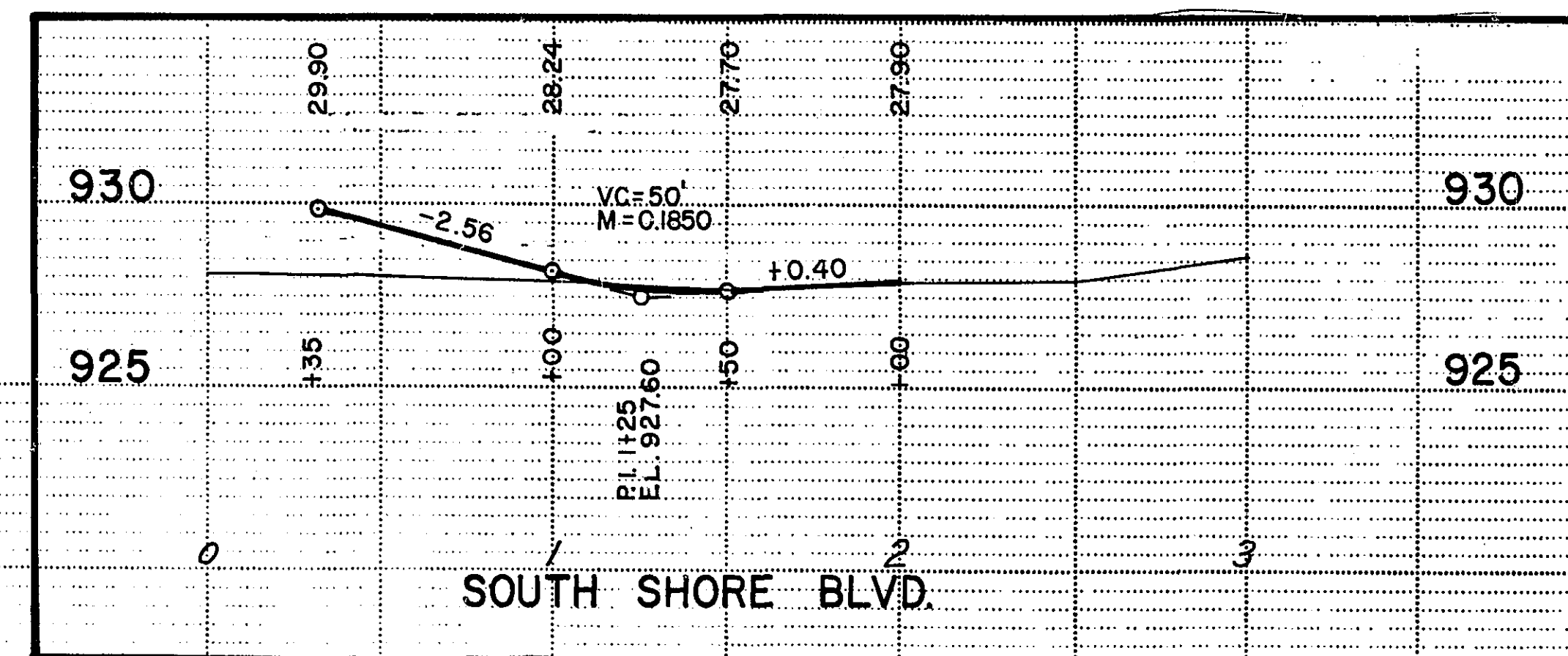
PLACEMENT OF MEDIAN HOLES



WATER AND SANITARY SERVICE INSULATION DETAIL



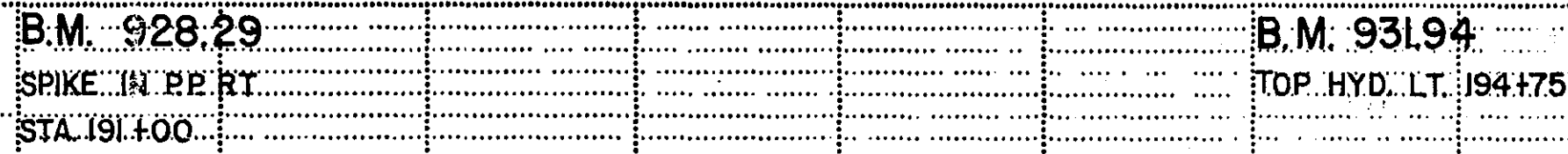
LANDSCAPE TYPICAL SECTION
NOTE: THE TYPICAL SECTION ON SHEET 2 IN GOOSE LAKE SHALL BE CHANGED BY THE ADDITION OF THE SECTIONS SHOWN ON THIS SHEET TO CREATE A LANDSCAPED AFFECT. THESE SECTIONS SHALL BE CONSTRUCTED IN LOCATIONS WHERE DIRECTED BY THE ENGINEER. THE COUNTY WILL PLANT TREES ON THESE SLOPES AND THE SLOPE ON THE RIGHT DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL COOPERATE WITH THE COUNTY IN THIS WORK.



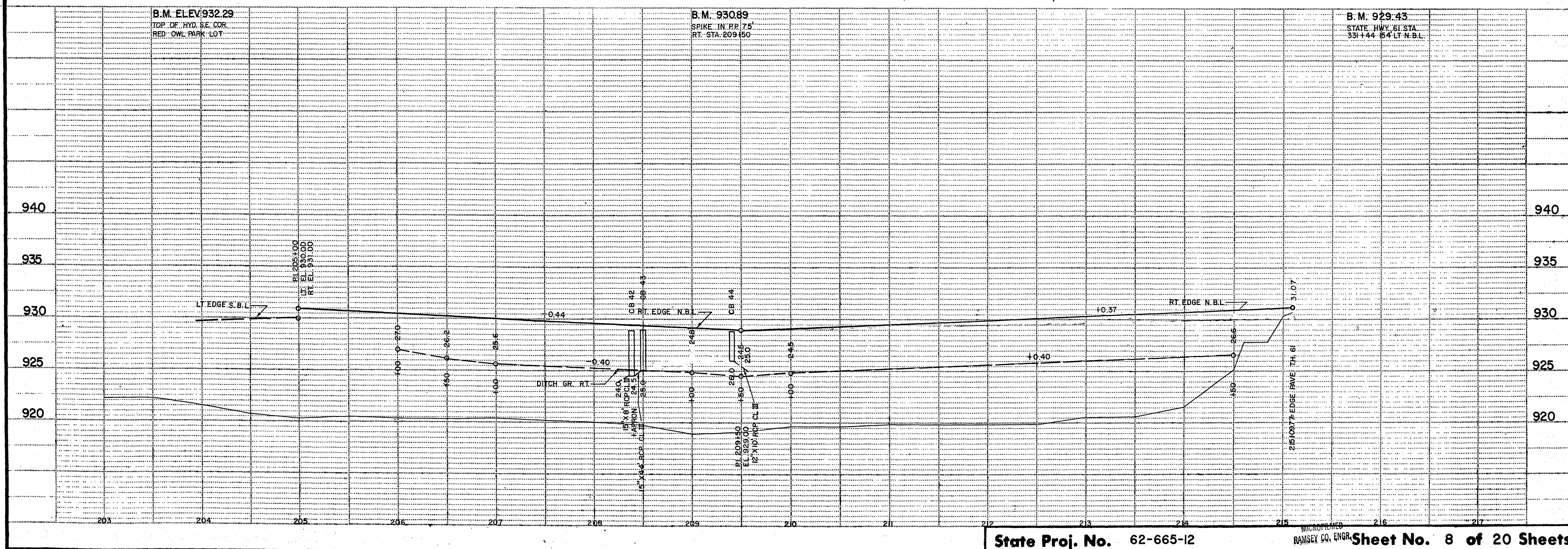
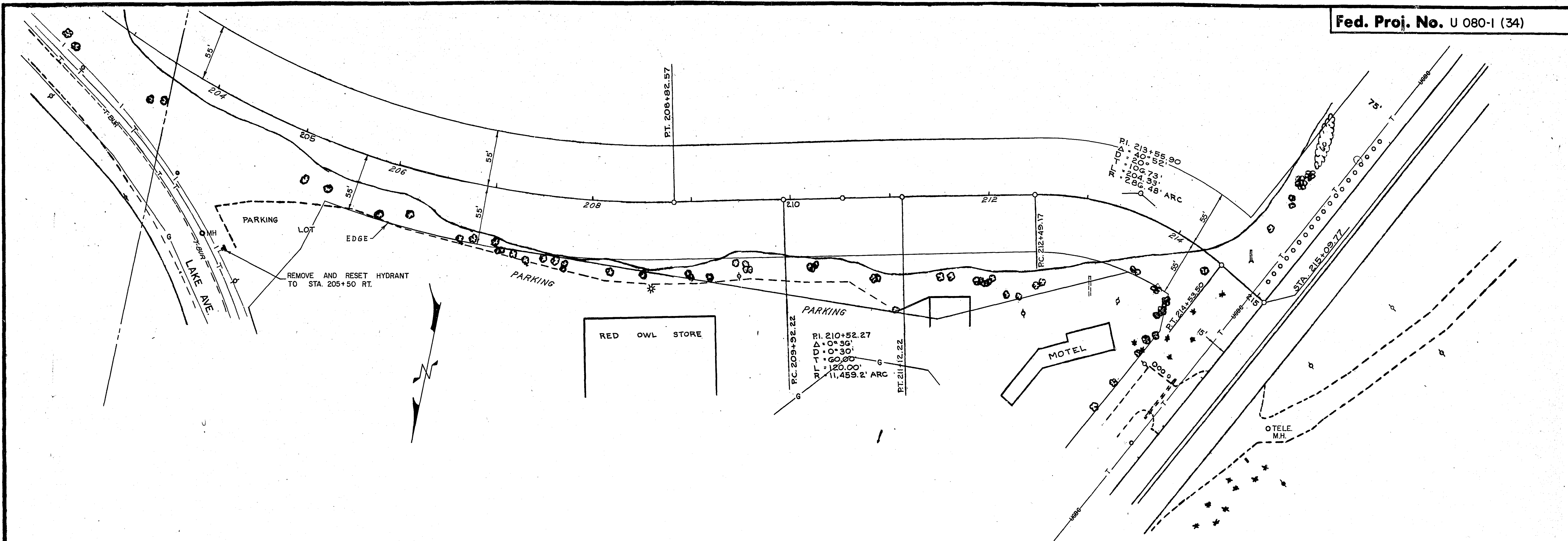


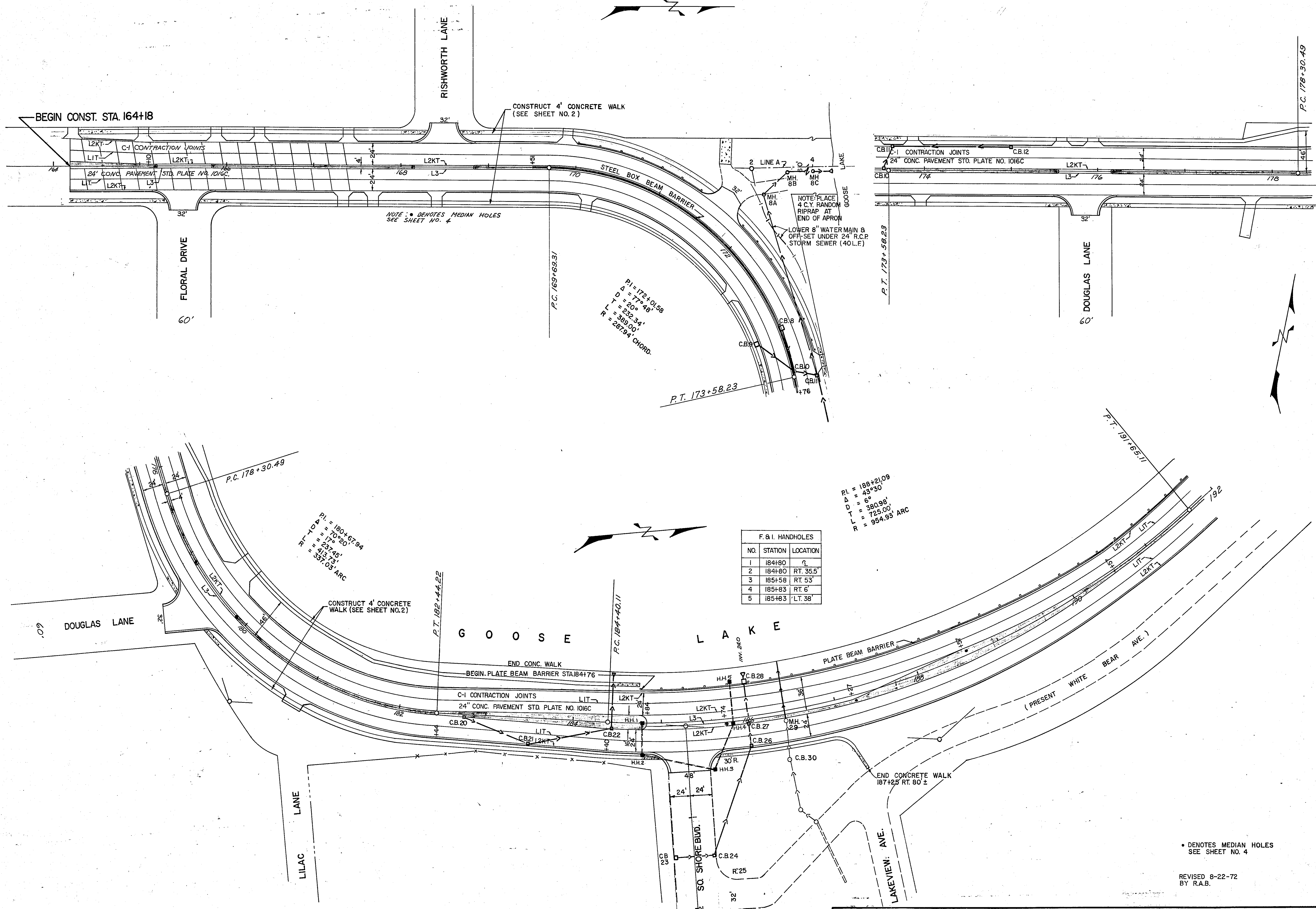
W.S. Elev. 923.84 Dec. 8, 1970

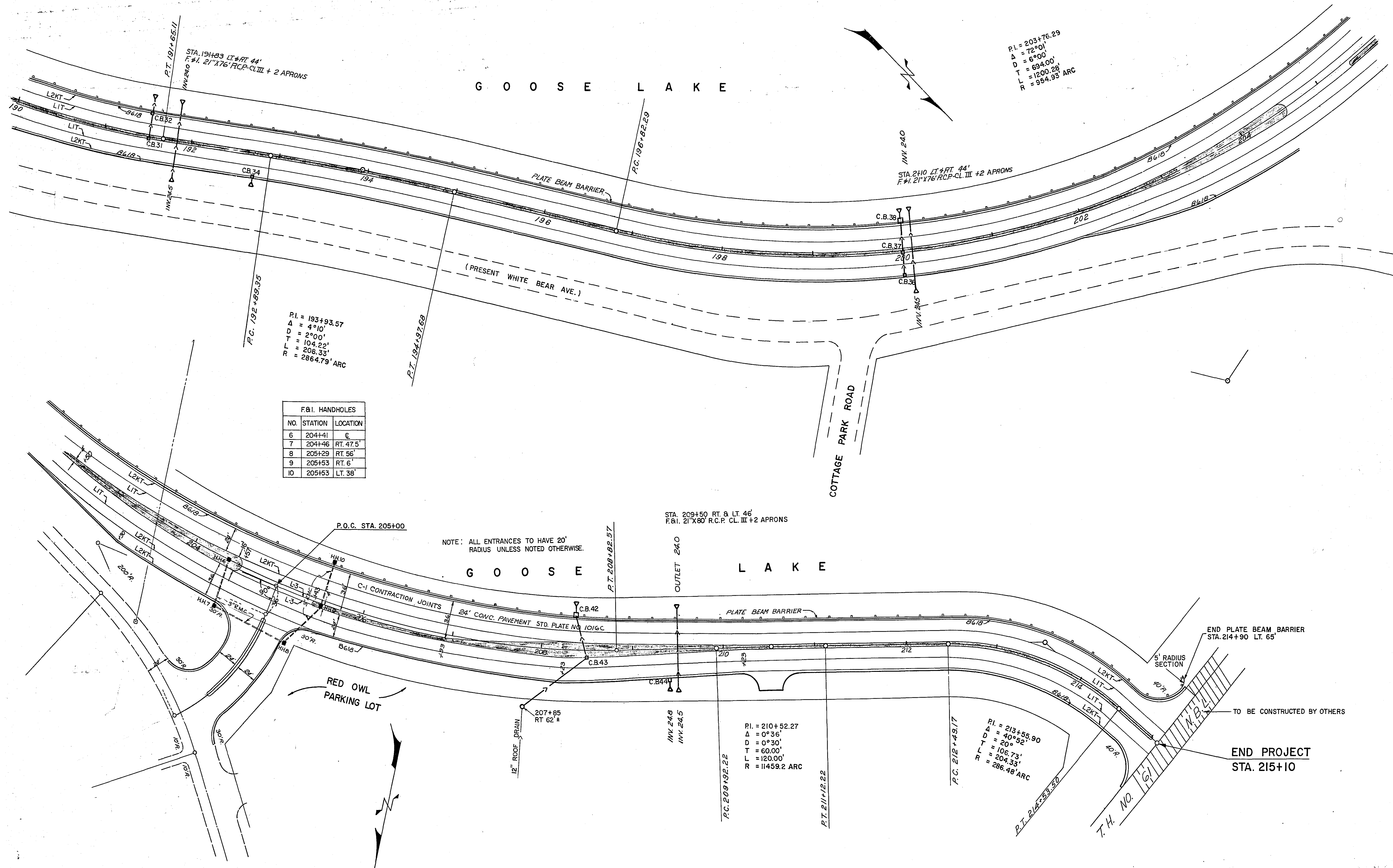
P.I. 203+76.29
A = 72°01'
D = 6°00'
T = 694.00'
L = 1200.28'
R = 954.93' ARC

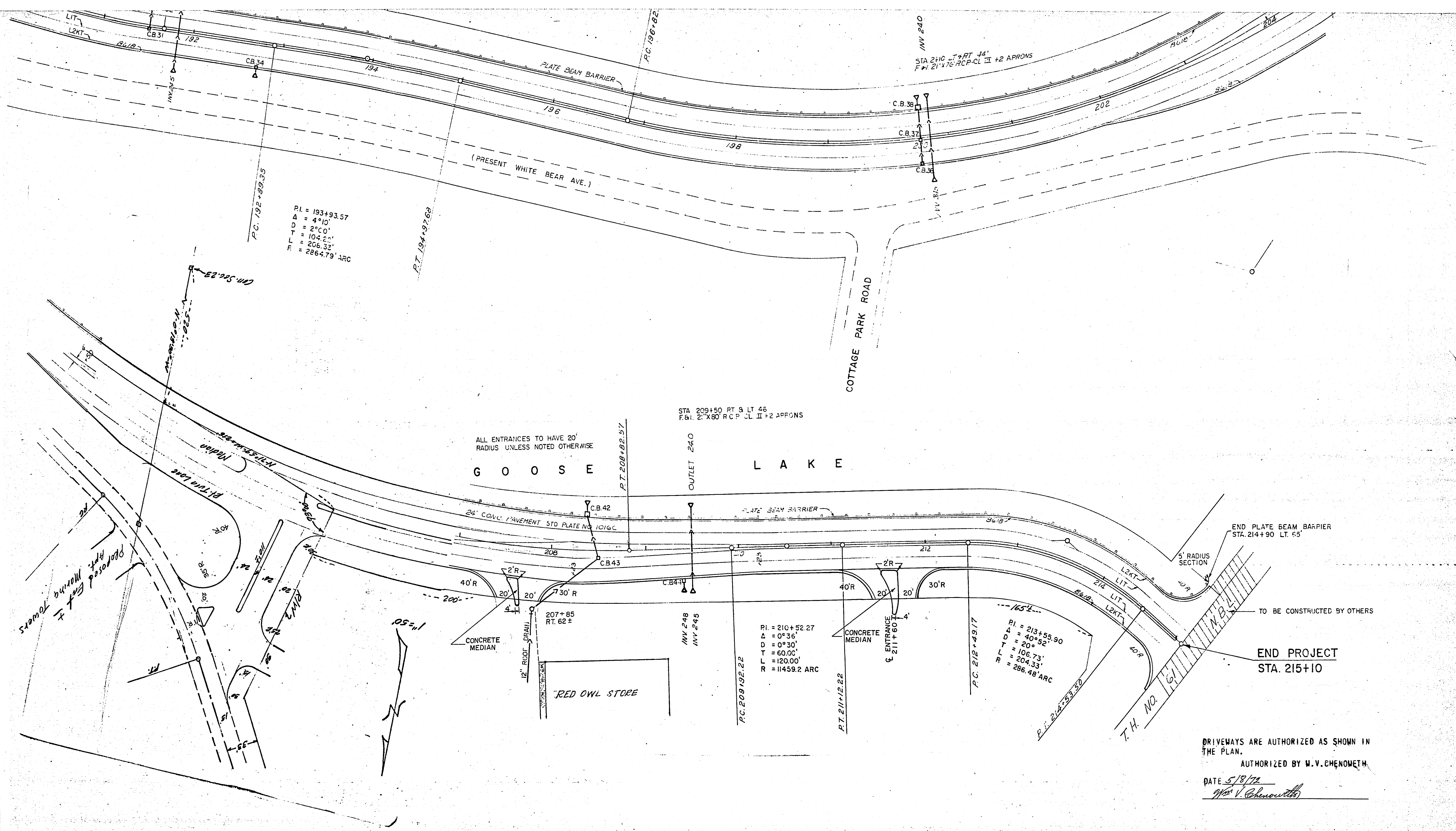


B.M. 931.28
TOP HYD. S.E. COR.
COTTAGE PARK RD









ALL ENTRANCES TO HAVE 20' RADIUS UNLESS NOTED OTHERWISE

G O O S E L A K E

RED OWL STORE

END PLATE BEAM BARRIER STA. 214+90 LT. 65'

END PROJECT STA. 215+10

DRIVEWAYS ARE AUTHORIZED AS SHOWN IN THE PLAN.
 AUTHORIZED BY W.V. CHENOWETH
 DATE 5/8/72
W.V. Chenoweth

EXCAVATION / EMBANKMENT
SUB TOTALS CU. YDS. CU. YDS. SUB TOTALS

484 425

3+00 287

1+50 279

0 0

2+00 279

115 57

1+50 277

214 150

1+00 279

155 218

1+50 281

0+42 281

0+30 281

0+15 282

0+00 281

SOUTH SHORE BLVD.

FUNCTIONAL CROSS SECTION - OPEN DOTTED
N. A. ROGERS CO. - MINNEAPOLIS, ST. PAUL

EXCAVATION | EMBANKMENT
SUB TOTALS CU. YDS. CU. YDS. SUB TOTALS

EXCAVATION | EMBANKMENT
SUB TOTALS CU. YDS. CU. YDS. SUB TOTALS

282 138

331 113

220 64

126 31

126 31

290 85

310 108

142 60

24 11

280 83

93 23

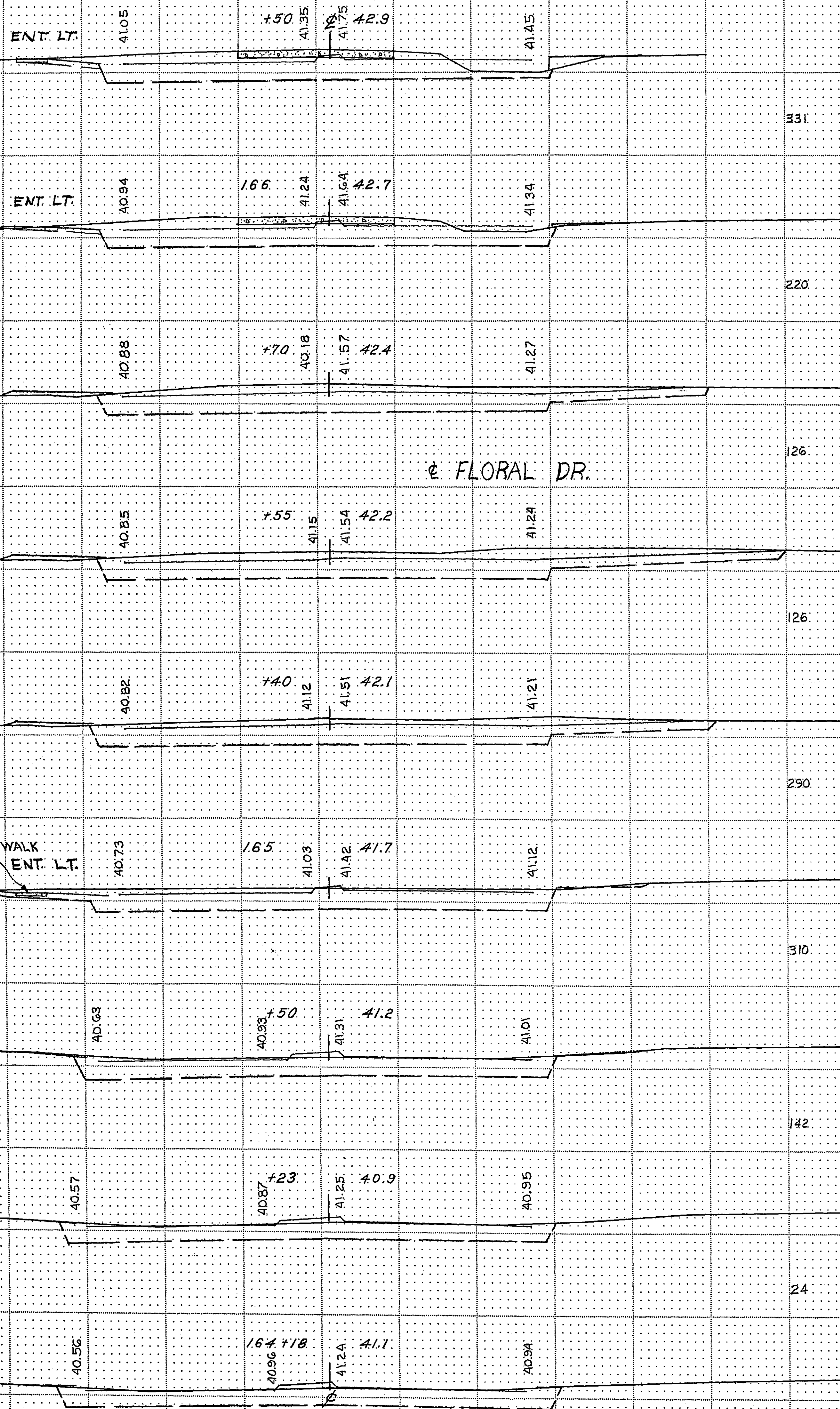
104 25

308 99

204 92

199 72

237 101



FLORAL DR.

RISHWORTH LANE

ENT.

ENT.

DEPRESS. SIDE WALK TO 41.2

DEPRESS. SIDE WALK TO 41.3

EXCAVATION EMBANKMENT
SUB TOTALS CU. YDS. CU. YDS. SUB TOTALS

Fed. Proj. No. U 080-1(34)

EXCAVATION EMBANKMENT
SUB TOTALS CU. YDS. CU. YDS. SUB TOTALS

NEW ENT

ENT. LT.

ENT. LT.

ENT. RT.

ENT. LT.

ENT. LT.

ENT. RT.

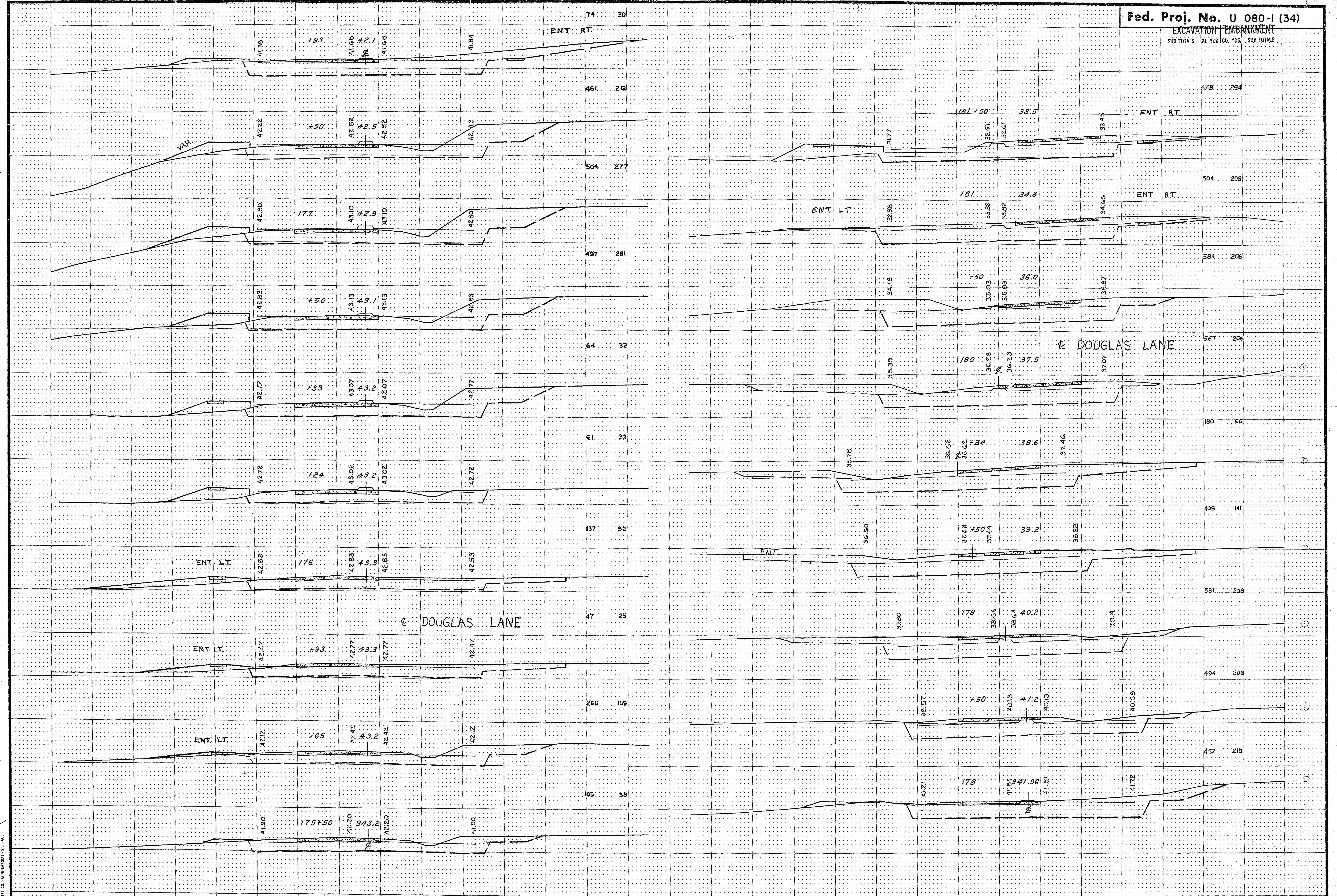
ENT.

State Proj. No. 62-665-12

Sheet No. 13 of 20 Sheets

20-101

FUNCTIONAL CROSS SECTION - OPEN DOTTED
H. A. ROGERS CO., MINNEAPOLIS, ST. PAUL



FUNCTIONAL CROSS SECTION- OPEN DOTTED
H. A. ROUSE CO. - MINNEAPOLIS - ST. PAUL

STATION-ELEVATION

STATION-ELEVATION

Fed. Proj. No. U 080-1 (34)

EXCAVATION EMBANKMENT
SUB TOTALS CU. YDS. CU. YDS. SUB TOTALS GRANULAR BORROW

EXCAVATION EMBANKMENT
SUB TOTALS CU. YDS. CU. YDS. SUB TOTALS GRANULAR BORROW CHANNEL EXC.

SOUTH SHORE BLVD.

WATER SURFACE

SUBSIDENCE LINE

WATER SURFACE

State Proj. No. 62-665-12

RAMSEY CO. ENGR. Sheet No. 15 of 20 Sheets

FUNCTIONAL CROSS SECTION - OPEN DOTTED
M. A. ROGERS CO. - MINNEAPOLIS, ST. PAUL

20-101

STATION-ELEVATION

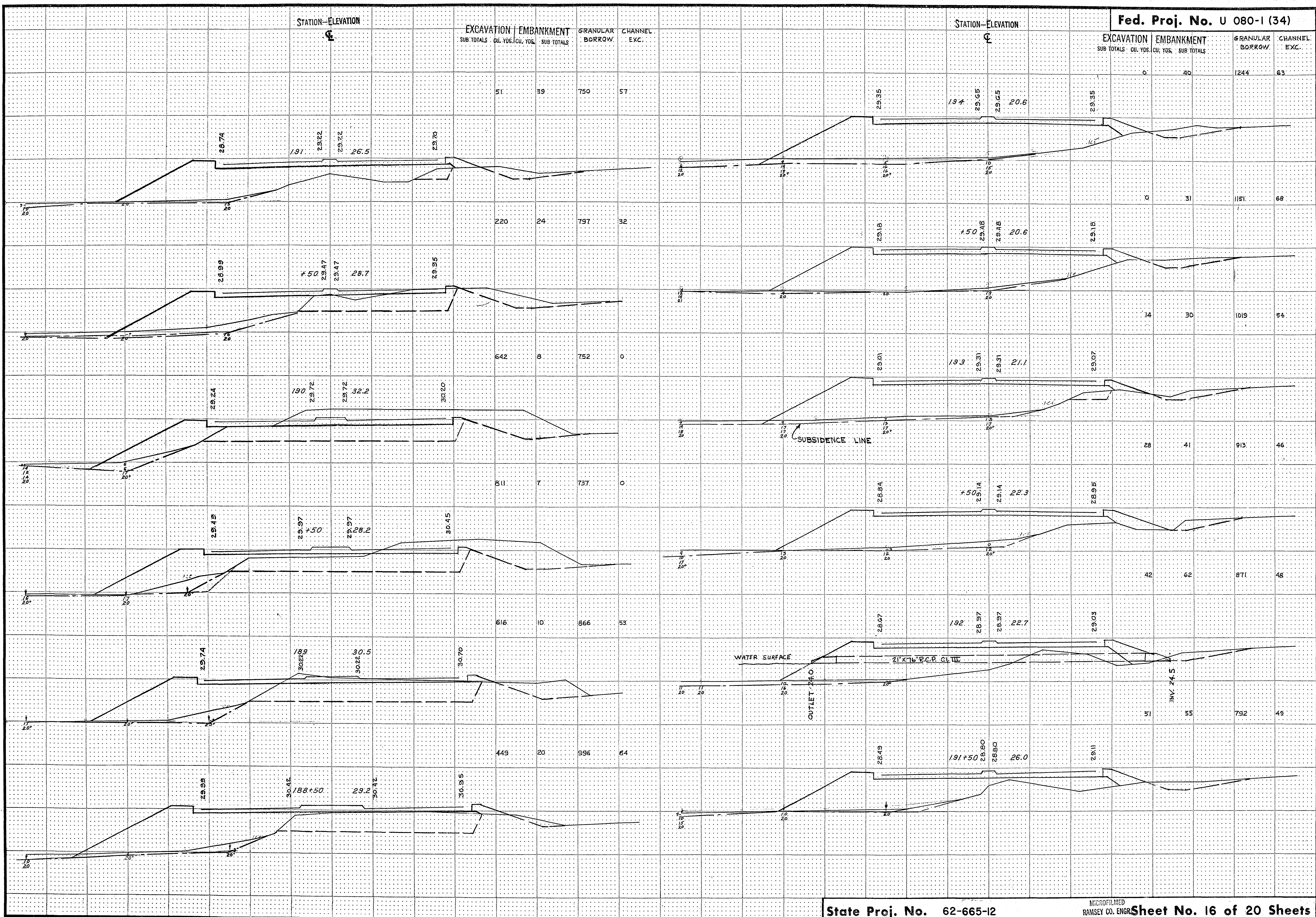
EXCAVATION / EMBANKMENT
SUB TOTALS CU. YDS. CU. YDS. SUB TOTALS

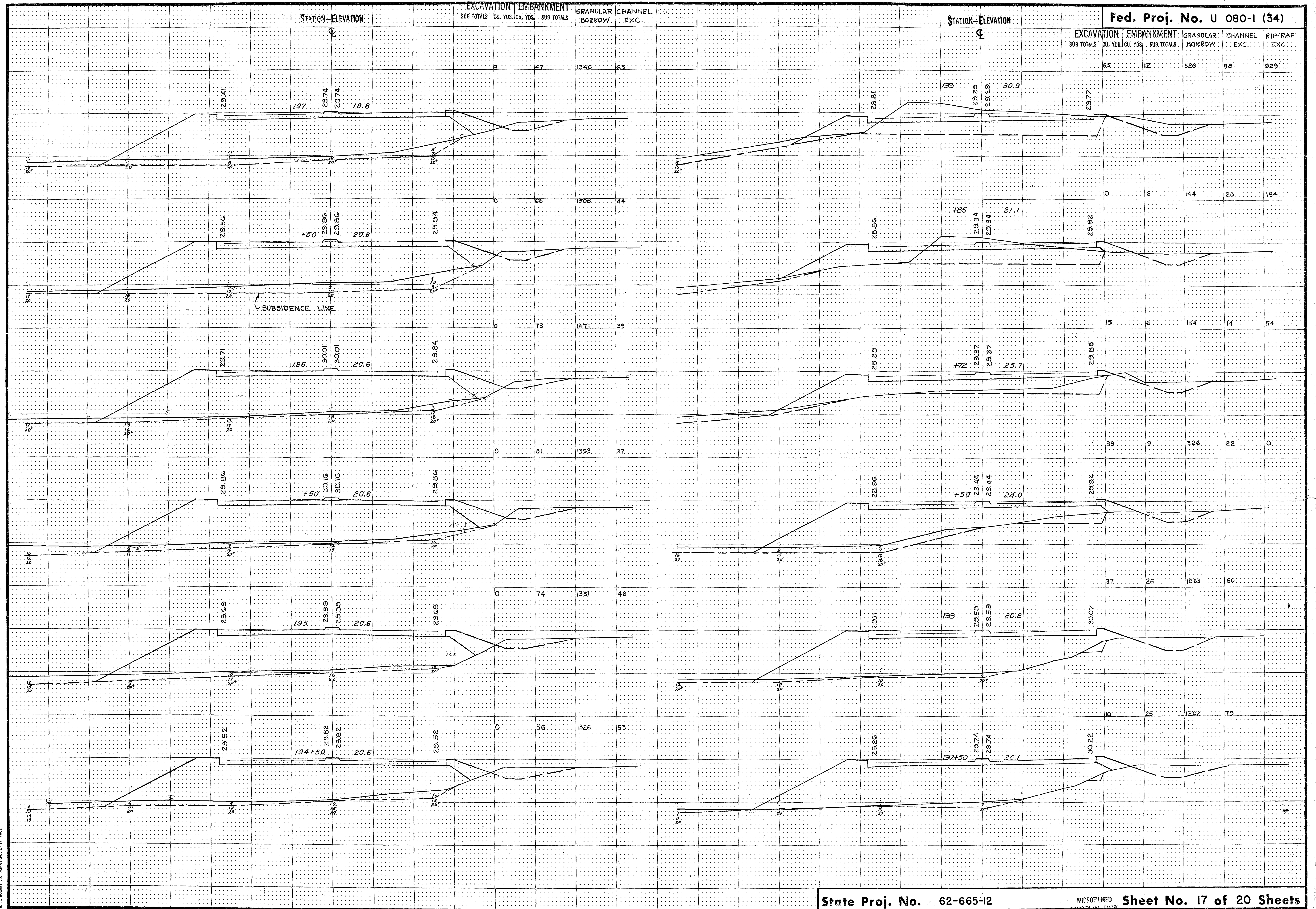
GRANULAR BORROW CHANNEL EXC.

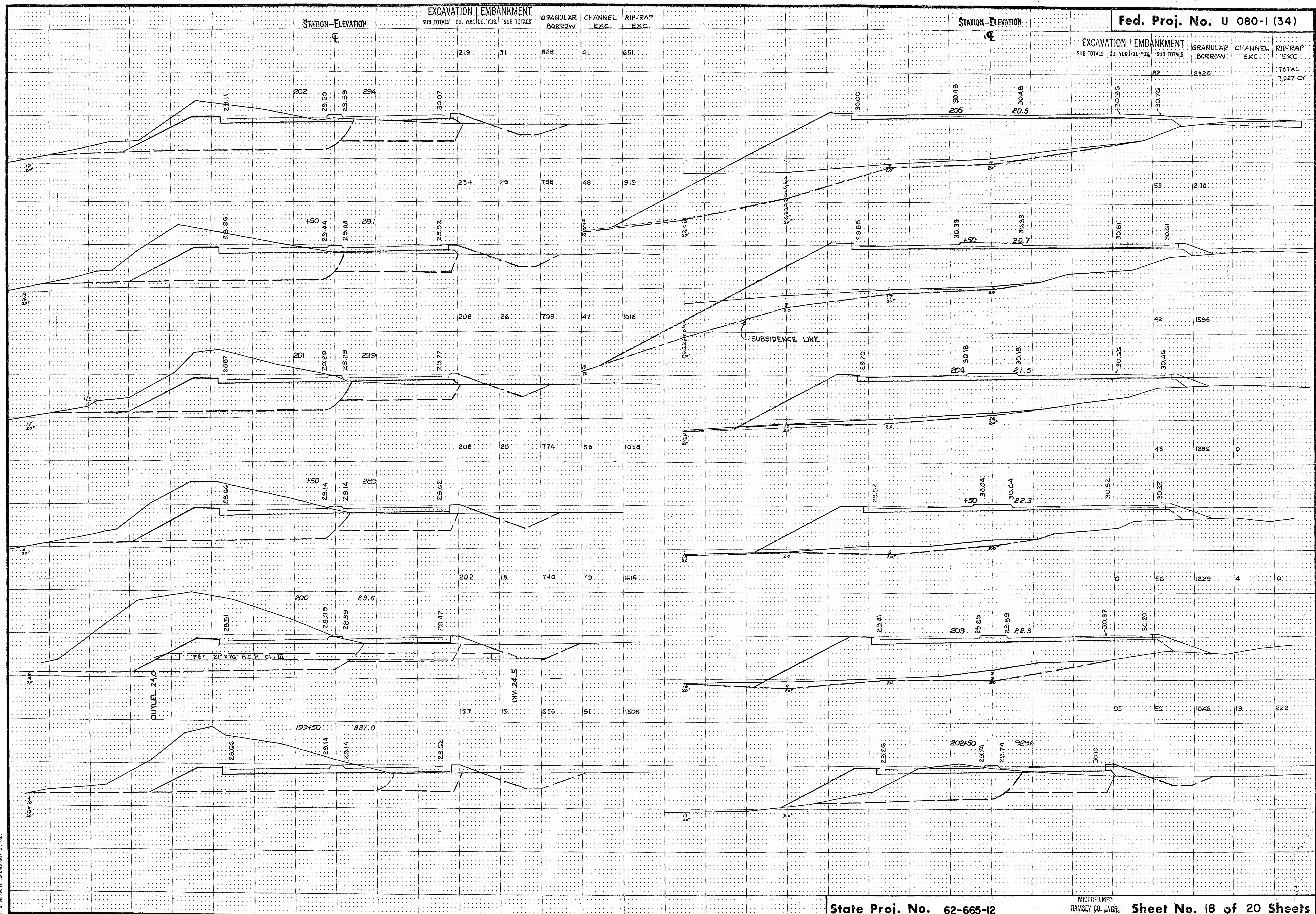
STATION-ELEVATION

EXCAVATION EMBANKMENT
SUB TOTALS CU. YDS. CU. YDS. SUB TOTALS

GRANULAR BORROW CHANNEL EXC.







STATION-ELEVATION

EXCAVATION EMBANKMENT

SUB-TOTALS CU. YDS. CU. YDS. SUB-TOTALS GRANULAR BORROW CHANNEL EXC.

STATION-ELEVATION

Fed. Proj. No. U 080-1 (34)

EXCAVATION EMBANKMENT

SUB-TOTALS CU. YDS. CU. YDS. SUB-TOTALS GRANULAR BORROW

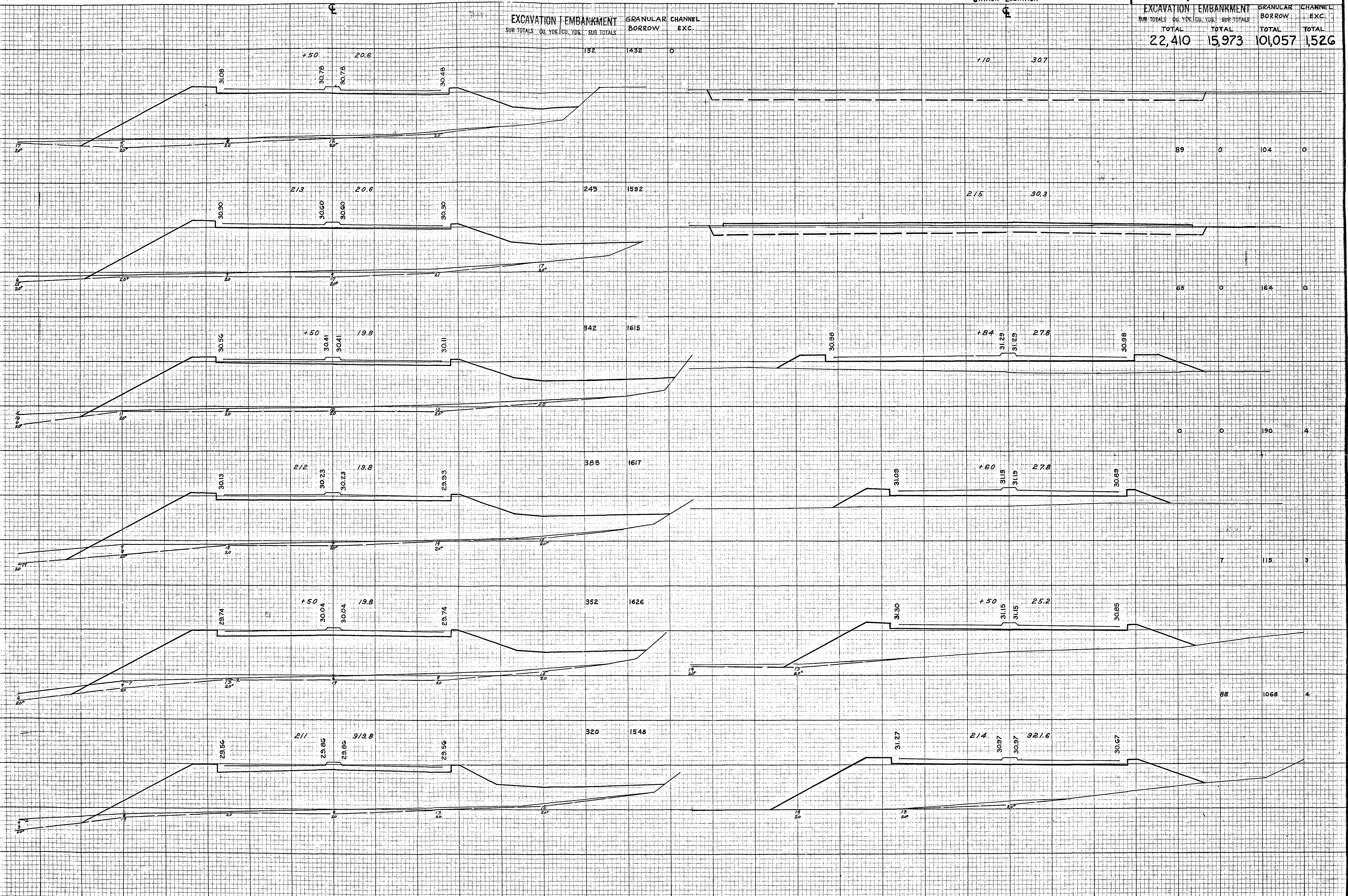
STATION-ELEVATION

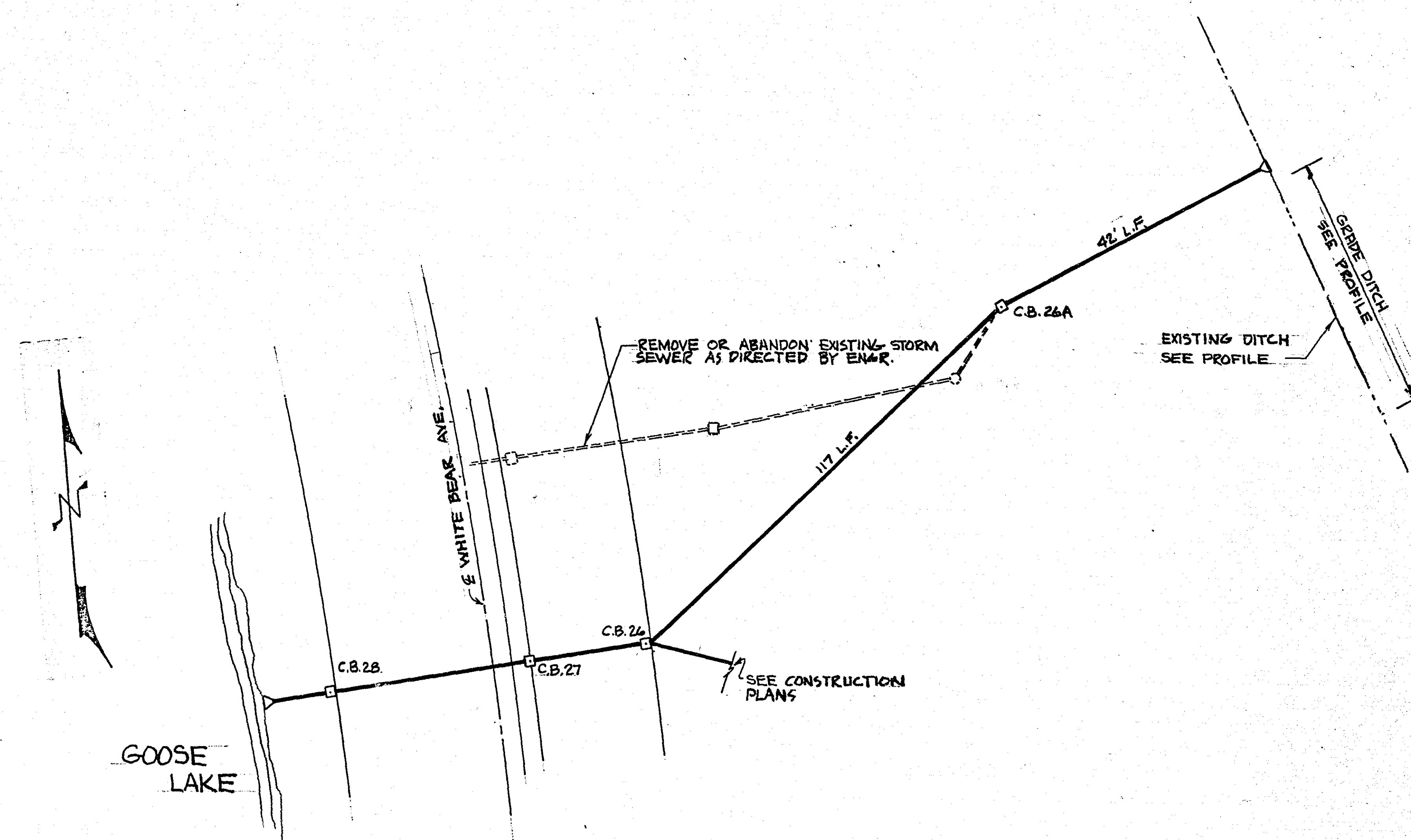
STATION-ELEVATION

Fed. Proj. No. U 080-1 (34)

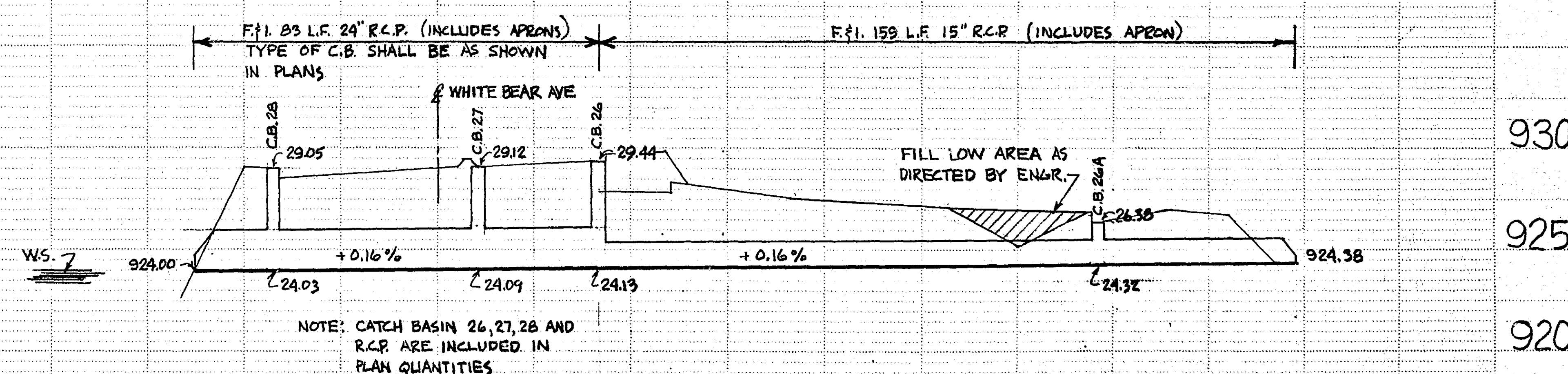
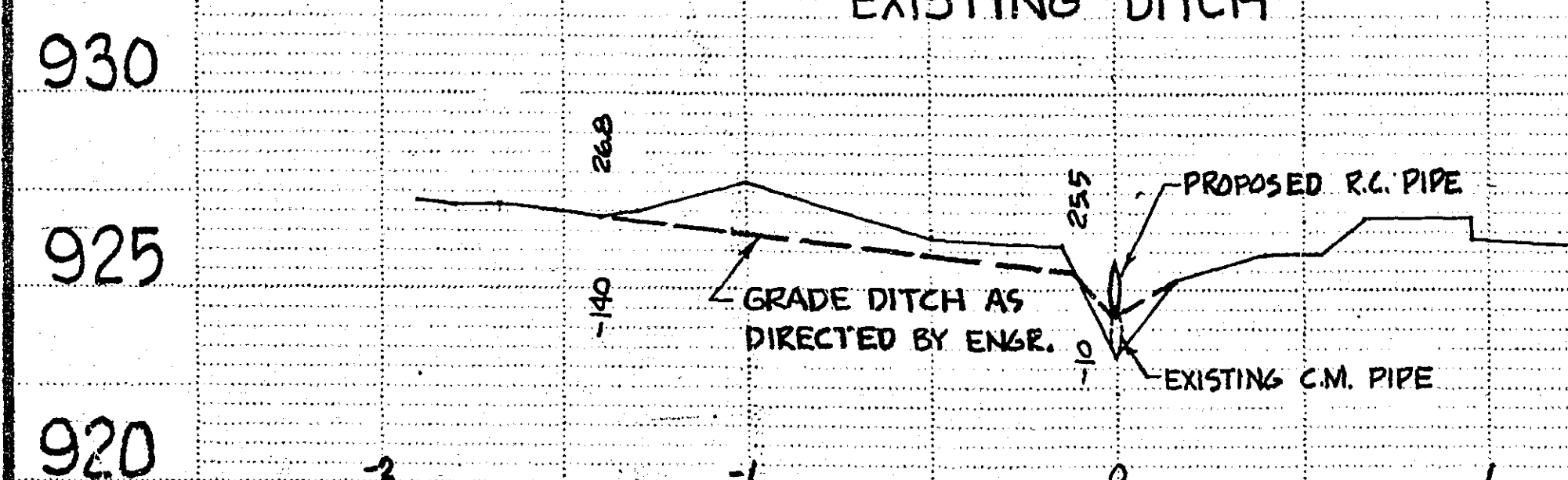
EXCAVATION EMBANKMENT
SUB TOTALS CU. YDS. CU. YDS. SUB TOTALS
BORROW EXC.

EXCAVATION	EMBANKMENT	GRANULAR BORROW	CHANNEL EXC.
TOTAL	TOTAL	TOTAL	TOTAL
22,410	15,973	10,057	1,526





PROFILE
EXISTING DITCH



OFFICE OF
RAMSEY COUNTY ENGINEER
WHITE BEAR AVE.
FLORAL DR. TO T.H. 61

STORM SEWER REVISION
DATE: 5-4-72