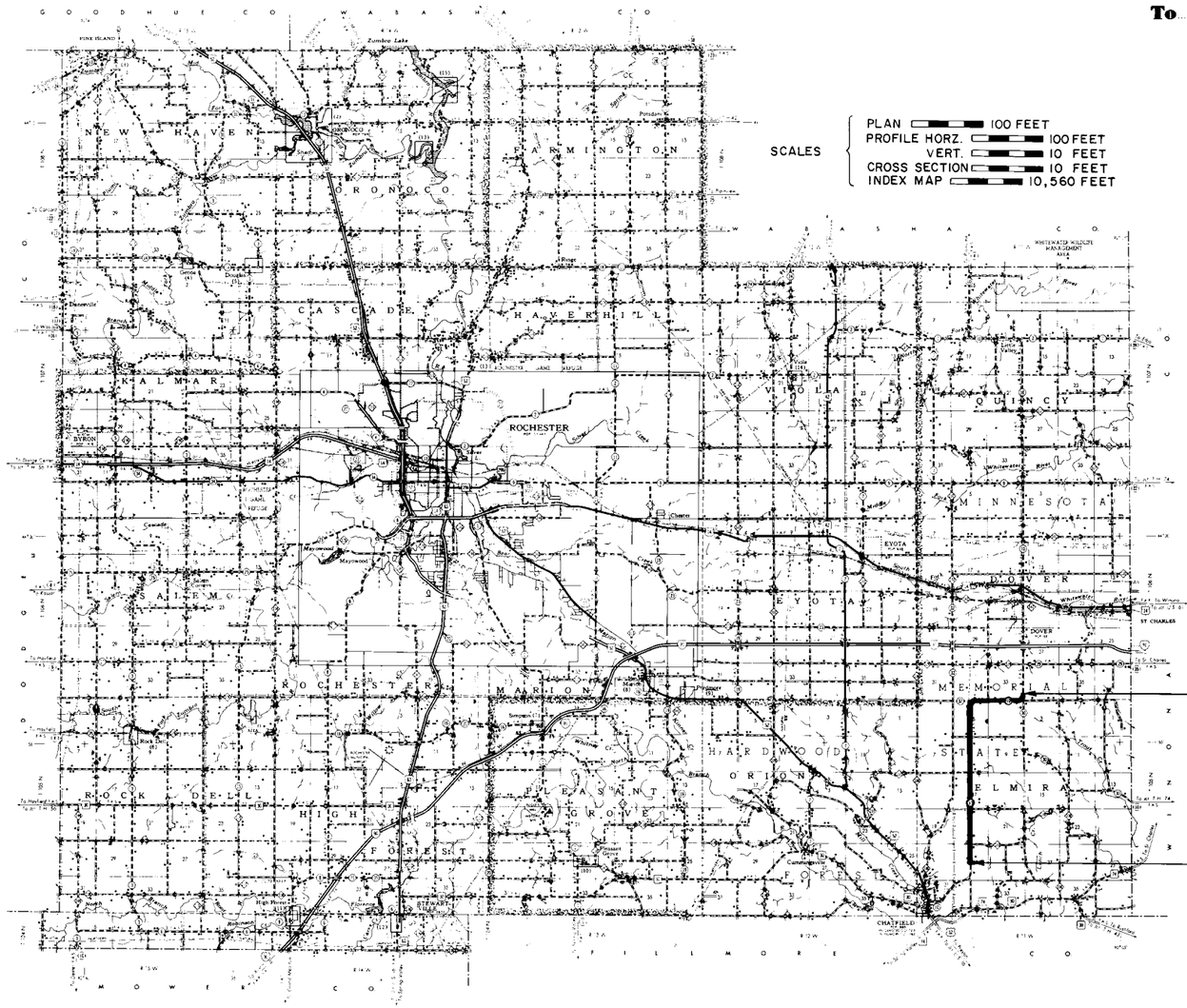
FORM 100-A '65

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 (NAME)
DRY RUN
DRAINAGE DITCH (SIZE)
DRAIN TILE
CULVERT
DROP INLET
GUARD RAIL
BARBED WIRE FENCE
WOVEN WIRE FENCE (W)
CHAIN LINK FENCE (C-L)
RAILROAD SNOW 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 (TIMBER)
CATCH BASIN (C.B.)
FIRE HYDRANT
CATTLE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame) (F-S-T 75')
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 (G)
SAND PIT (S)
BORROW PIT (B)
ROCK QUARRY (Q)

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 (G)
WATER MAIN (I)
CONDUIT
TELEPHONE CABLE IN CONDUIT (T)
ELECTRIC CABLE IN CONDUIT (P)
TELEPHONE MANHOLE (T)
ELECTRIC MANHOLE (P)
BURIED TELEPHONE CABLE (T-BUR)
BURIED ELECTRIC CABLE (P-BUR)
AERIAL TELEPHONE CABLE (T-AE)
SEWER, (SANITARY OR STORM)
SEWER MANHOLE



Fed. Proj. No.

STATE OF MINNESOTA

DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN FOR Grading and Aggregate Base

COUNTY STATE AID HIGHWAY NO. 10

BETWEEN Chatfield **AND** Dover

From Center Sec. 29 T. 105 N. – R. 11 W.
Give proper reference to Sections, Township and Range

To 1071.17' N. of S.E. Cor. Sec. 33 T. 106 N. – R. 11 W.

GROSS LENGTH 31,962.33 FEET 6.053 MILES
BRIDGES-LENGTH 0 FEET MILES
EXCEPTIONS-LENGTH 0 FEET MILES
NET LENGTH 31,962.33 FEET 6.053 MILES

INDEX OF SHEETS

Sheet No. 1 Title Sheet & Layout Map
" No. 2 Est. Quantities & Typical Sec
" No. 3 To 13 Plan & Profile
" No. 14 To 59 Cross Sections
" No. 13 To 13G Dam and Culvert Details

DESIGN SPEED 50 **M. P. H.**

PROJECTED A. D. T. 542

7 **TON DESIGN**

SOIL FACTOR 130

ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

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.

R K Dolan DATE 7-14-77
COUNTY ENGINEER

Olmsted COUNTY REG. NO. 10219

RECOMMENDED FOR APPROVAL [signature] 7-15 19 77
DISTRICT STATE AID ENGINEER

RECOMMENDED FOR APPROVAL [signature] 7-21 19 77

APPROVED 7-27 19 77 [signature]
STATE AID ENGINEER

— SPECIFICATIONS —
MINNESOTA HIGHWAY DEPARTMENT
STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION DATED JANUARY 1, 1972
AS AMENDED BY "SUPPLEMENTAL SPECIFICATIONS" DATED APRIL 1, 1976 SHALL GOVERN.

Minn. Project No. _____ S.A.P. 55-610-08
State Project No. _____

C.S.A.H. 10 **OLMSTED** County, Minnesota. County Proj. No. _____ Plan No. _____ Sheet 1 of 59 Sheets

ALBINSON, INC.

ESTIMATED QUANTITIES

SPECIFICATION NO.	ITEM	UNIT	MUNICIPAL	RURAL	TOTAL ESTIMATED QUANTITIES	
2021.501	MOBILIZATION	LUMP SUM		1	1	
2101.502	CLEARING	TREE		395	395	
2101.507	GRUBBING	TREE		386	386	
2104.501	REMOVE PIPE CULVERT	LIN. FT.		2223	2223	
2104.509	REMOVE CONCRETE BOX CULVERT	EACH		3	3	
2105.501	COMMON EXCAVATION	CU. YD.		182,426	182,426	(P)
2105.503	ROCK EXCAVATION	CU. YD.		2,732	2,732	
2105.507	SUBGRADE EXCAVATION	CU. YD.		30,348	30,348	(P)
2105.523	COMMON BORROW (CV)	CU. YD.		4518	4518	(P)
2130.501	WATER	M-GALLON		100	100	
① 2211.501	AGGREGATE BASE, CLASS 2	TON		36,753	36,753	
② 2501.501	CULVERT EXCAVATION, CLASS "U"	CU. YD.		660	660	(P)
2501.511	18" C.S. PIPE CULVERT	LIN. FT.		1814	1814	
2501.511	24" C.S. PIPE CULVERT	LIN. FT.		220	220	
2501.511	30" C.S. PIPE CULVERT	LIN. FT.		32	32	
2501.511	24" R.C. PIPE CULVERT CLASS II	LIN. FT.		506	506	
2501.511	24" R.C. PIPE CULVERT CLASS III	LIN. FT.		120	120	
2501.511	30" R.C. PIPE CULVERT CLASS II	LIN. FT.		418	418	
2501.511	30" R.C. PIPE CULVERT CLASS III	LIN. FT.		62	62	
2501.511	36" R.C. PIPE CULVERT CLASS II	LIN. FT.		232	232	
2501.511	42" R.C. PIPE CULVERT CLASS II	LIN. FT.		78	78	
2501.511	48" R.C. PIPE CULVERT CLASS III	LIN. FT.		98	98	
2501.511	54" R.C. PIPE CULVERT CLASS II	LIN. FT.		64	64	
2501.511	72" R.C. PIPE CULVERT CLASS II	LIN. FT.		72	72	
③ 2501.511	24" AB-CS PIPE CULVERT 12 GAGE	LIN. FT.		270	270	
④③ 2501.511	48" AB-CS PIPE CULVERT 12 GAGE	LIN. FT.		16	16	
⑤ 2501.507	A-S DIAPHRAGM FOR 24" METAL PIPE	EACH		4	4	
⑥ 0501.605	GRAVEL BACKFILL-MODIFIED (LV)	CU. YD.		128	128	
2501.515	18" G.S. PIPE APRONS	EACH		110	110	
2501.515	24" G.S. PIPE APRONS	EACH		10	10	
2501.515	30" G.S. PIPE APRONS	EACH		2	2	
2501.515	24" R.C. PIPE APRONS	EACH		18	18	
2501.515	30" R.C. PIPE APRONS	EACH		14	14	
2501.515	36" R.C. PIPE APRONS	EACH		6	6	
2501.515	42" R.C. PIPE APRONS	EACH		2	2	
2501.515	48" R.C. PIPE APRONS	EACH		2	2	
2501.515	54" R.C. PIPE APRONS	EACH		2	2	
2501.515	72" R.C. PIPE APRONS	EACH		2	2	
2501.521	59" SPAN R.C.P.-A CULVERT CLASS IIA	LIN. FT.		66	66	
2501.525	59" SPAN R.C.P.-ARCH APRONS	EACH		2	2	
2502.521	8" C.S. PIPE DRAIN	LIN. FT.		350	350	
2502.551	C.S. INSPECTION TEES	LIN. FT.		10.5	10.5	
2104.501	REMOVE SUB-SURFACE DRAINS	LIN. FT.		69	69	
⑦ 2506.516	CASTING ASSEMBLIES	EACH		1	1	
2511.501	RANDOM RIP-RAP CLASS "A"	CU. YD.		147	147	
2511.504	FILTER BLANKET TYPE I	CU. YD.		76	76	

(P) Plan Quantity.

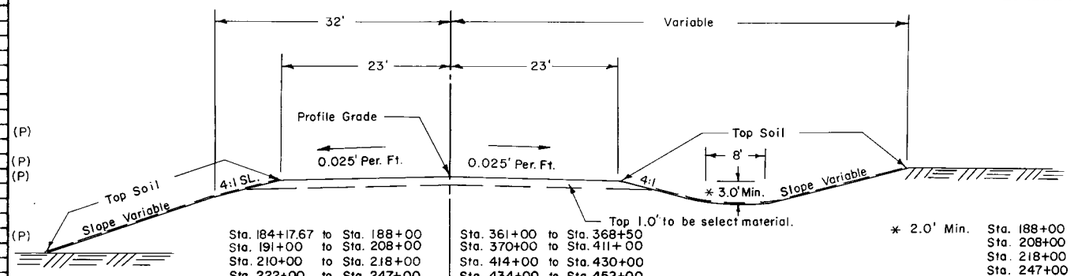
① ITEM No. 2211.501 INCLUDES 540 TONS FOR 9 PUBLIC ROADS, 570 TONS FOR 15 RESIDENTAL APPROACHES AND 1,680 TONS FOR 56 FIELD ENTRANCES.
② THIS EXCAVATION IS SHOWN IN THE PLANS ON SHEET NO. 13A AND 13B AND IS REFERRED TO AS "CORE TRENCH EXCAVATION."
③ CULVERT SEAMS TO BE CAULKED AND DOUBLE RIVETED.
④ CULVERT TO BE USED FOR RISER AS SHOWN ON SHEET 13B OF THE PLANS.
⑤ SEE SHEET NO. 13G FOR DETAILS OF DIAPHRAGMS.
⑥ SEE SPECIAL PROVISIONS FOR GRADATION OF GRAVEL BACKFILL.
⑦ SEE SHEET NO. 13E OF THE PLANS FOR DETAILS OF ASSEMBLY.

STANDARD PLATES

THE FOLLOWING STANDARD PLATES APPROVED BY THE DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT.

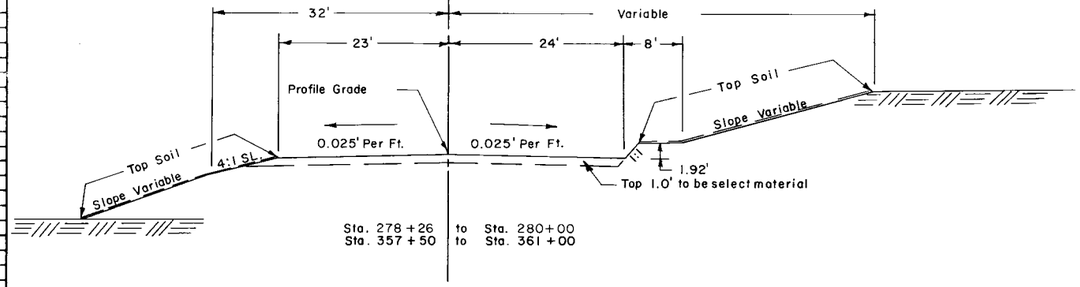
PLATE NO.		DESCRIPTION
0002	A	SPECIFICATION REFERENCE TO STANDARD PLATES
3000	G	REINFORCED CONCRETE PIPE
3014	G	REINFORCED CONCRETE PIPE ARCH DETAIL
3040	D	CORRUGATED METAL PIPE
3100	F	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3110	D	CONCRETE APRON FOR REINFORCED CONCRETE PIPE-ARCH
3122	G	METAL APRON FOR C.M. PIPE-ARCH CULVERT
3123	G	METAL APRON FOR C.M. PIPE
3124	A	METAL APRON CONNECTION
3133	A	RIPRAP AT RCP OUTLETS
3143	B	INSPECTION TEES
3145	A	CONCRETE PIPE JOINT TIES U BOLT TIE
8000	F	STANDARD BARRICADES
9000	B	APPROACHES AND ENTRANCES.

TYPICAL GRADING SECTIONS



Sta. 184+17.67 to Sta. 188+00
Sta. 191+00 to Sta. 208+00
Sta. 210+00 to Sta. 218+00
Sta. 222+00 to Sta. 247+00
Sta. 250+00 to Sta. 278+26
Sta. 280+00 to Sta. 325+00
Sta. 328+00 to Sta. 357+50

Sta. 361+00 to Sta. 368+50
Sta. 370+00 to Sta. 411+00
Sta. 414+00 to Sta. 430+00
Sta. 434+00 to Sta. 452+00
Sta. 454+00 to Sta. 459+00
Sta. 462+00 to Sta. 485+00
Sta. 488+00 to Sta. 503+80

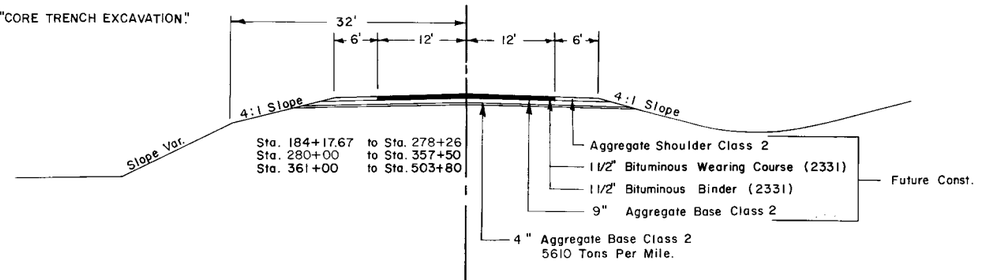


Sta. 278+26 to Sta. 280+00
Sta. 357+50 to Sta. 361+00

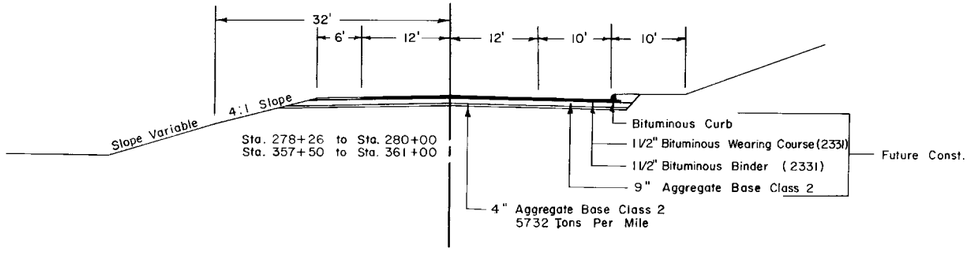
SPECIAL DETAILS

* 2.0' Min.
Sta. 188+00 to Sta. 191+00
Sta. 208+00 to Sta. 210+00
Sta. 218+00 to Sta. 222+00
Sta. 247+00 to Sta. 250+00
Sta. 325+00 to Sta. 328+00
Sta. 368+50 to Sta. 370+00
Sta. 411+00 to Sta. 414+00
Sta. 430+00 to Sta. 434+00
Sta. 452+00 to Sta. 454+00
Sta. 459+00 to Sta. 462+00
Sta. 485+00 to Sta. 488+00

TYPICAL BASE AND SURFACE SECTIONS



Sta. 184+17.67 to Sta. 278+26
Sta. 280+00 to Sta. 357+50
Sta. 361+00 to Sta. 503+80



Sta. 278+26 to Sta. 280+00
Sta. 357+50 to Sta. 361+00

NOTE: MATERIAL FROM THE UPPER 1.0' OF THE NATURAL TOP SOIL SHALL NOT BE USED IN THE UPPER 1.0' OF THE ROADWAY. PART OF THIS MATERIAL SHALL BE UNIFORMLY SPREAD ON SLOPES AND DITCH BOTTOMS TO A DEPTH OF 3". NO PAYMENT IN ADDITION TO THE CONTRACT PRICE FOR COMMON EXCAVATION WILL BE MADE FOR SPREADING THE TOPSOIL AS ABOVE PROVIDED, NOR WILL ANY UNDERCUTTING MADE IN EXCAVATION PRIOR TO PLACING THE TOPSOIL BE MEASURED FOR PAYMENT.

NOTE: CORRUGATED STEEL AND REINFORCED CONCRETE PIPE CULVERT EXCAVATION WILL BE CONSIDERED INCIDENTAL, AND WILL BE INCLUDED FOR PAYMENT UNDER UNIT PRICE FOR "PIPE CULVERT."

NOTE: SUBGRADE TREATMENT:
EXCAVATE 1.0' BELOW PROFILE GRADE FOR COMPACTION, AS SHOWN ON THE PLAN AND PROFILE SHEETS. EXCAVATION HAS BEEN COMPUTED AND IS LISTED AS SUBGRADE EXCAVATION. BACKFILL WITH SELECT MATERIAL FROM R.O.W. TAPERS SHALL BE 50:1 IN ALL CASES.

NOTE: PLACE SECTIONAL CONCRETE PIPE ON CLASS "B" AND "C" BEDDING AS DIRECTED BY THE ENGINEER. ALL BEDDING TO BE CONSIDERED AS INCIDENTAL AND NO DIRECT COMPENSATION SHALL BE MADE THERE FOR.

NOTE: ALL DIMENSIONS AND SLOPES SHOWN ON TYPICAL SECTIONS ARE APPROXIMATE.

ALBINSON, INC. MINNEAPOLIS

Minn. Proj. No._____ S.A.P. 55-610-08
State Project No._____

FED ROAD DIST NO	STATE	FEDERAL PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS

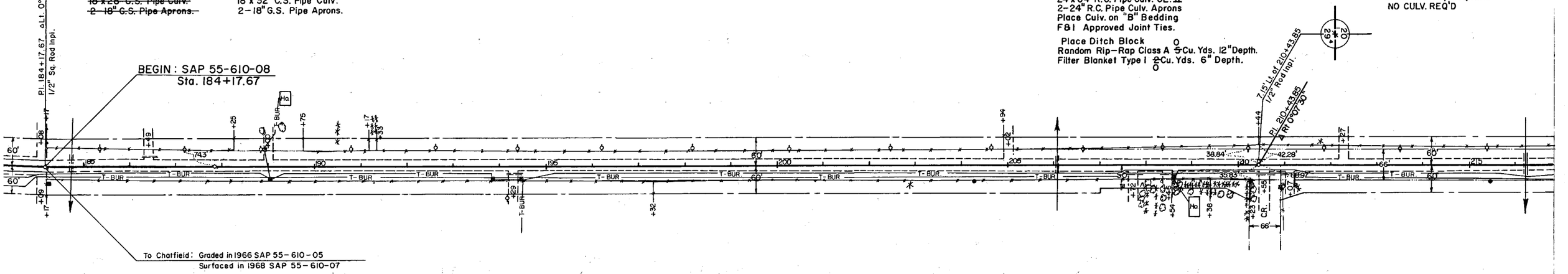
NO F. ENT. REQ'D
186+49 FE. Lt
Inpl 18"X24' CMP
Remove
~~18"x28' C.S. Pipe Culv.~~
~~2-18" G.S. Pipe Aprons.~~

189+00 Farm Ent. Lt
Inpl 18"X24' CMP
Remove
18"x 32' C.S. Pipe Culv.
2-18" G.S. Pipe Aprons.

205+02 FE Lt
No Culv Inpl
No Culv. Req'd.

206+08 ℄ Culv
Inpl 18"X34' CMP
Remove
24"x 64' R.C. Pipe Culv. CL. II
2-24" R.C. Pipe Culv. Aprons
Place Culv. on "B" Bedding
F&I Approved Joint Ties.
Place Ditch Block 0
Random Rip-Rap Class A ~~5~~ Cu. Yds. 12" Depth.
Filter Blanket Type I ~~2~~ 0 Cu. Yds. 6" Depth.

MOVED TO STA. 211+86
212+27 FE Lt
No Culv Inpl
~~18"X28' C.S. Pipe Culv.~~
~~2-18" G.S. Pipe Aprons~~
NO CULV. REQ'D



184+75 ℄ Culv
Inpl 24"X34' CMP
Remove
24"x 60' R.C. Pipe Culv. CL. 3
2-24" R.C. Pipe Culv. Aprons.
Place Culv. on "B" Bedding.
F&I. Approved Joint Ties.

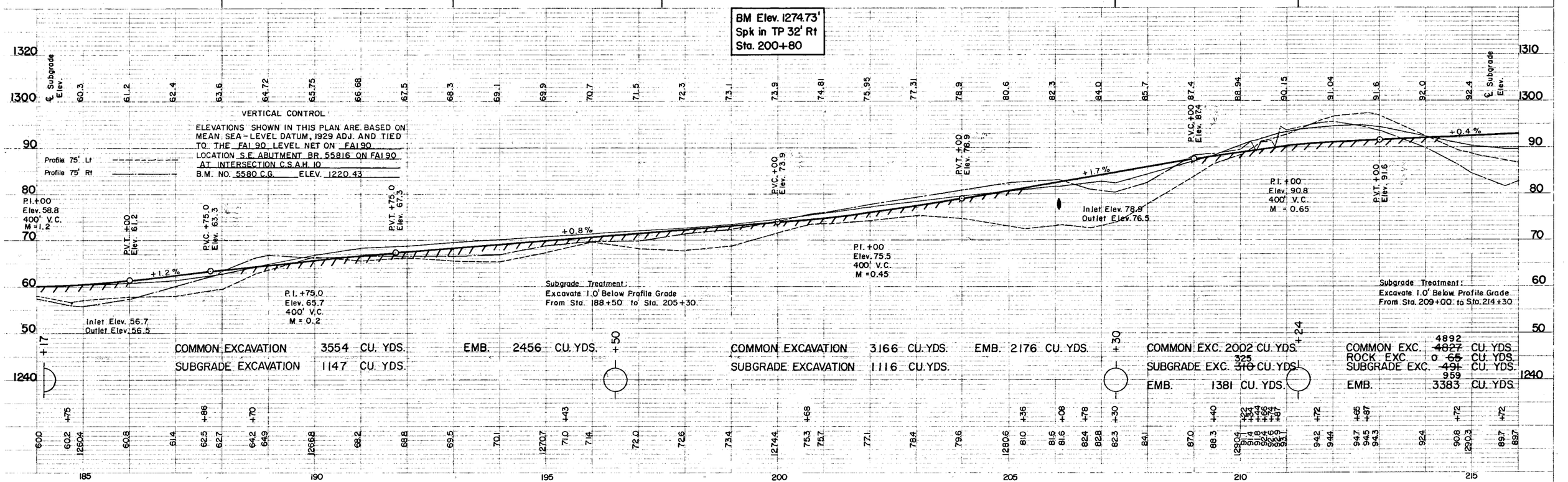
194+29 Farm Ent Rt
Inpl 18"X24' CMP
Remove
18"x 32' C.S. Pipe Culv.
2-18" G.S. Pipe Aprons.

207+72 FE Rt
Inpl 18"X24' CMP
Remove ~~32'~~
18"x ~~28'~~ C.S. Pipe Culv.
2-18" G.S. Pipe Aprons.

208+46 Farm Ent. Rt
Inpl 18"X24' CMP
Remove ~~28'~~
18"x ~~32'~~ C.S. Pipe Culv.
2-18" G.S. Pipe Aprons.

210+55 CR. 110 Rt
Inpl 18"X36' CMP
Remove
18"x 36' C.S. Pipe Culv.
2-18" G.S. Pipe Aprons.

211+07 F.E. Rt.
Inpl 18"x 28' CMP.
Remove
18"x 28' C.S. Pipe Culv.
2-18" G.S. Pipe Aprons



COMMON EXCAVATION	3554 CU. YDS.	EMB.	2456 CU. YDS.
SUBGRADE EXCAVATION	1147 CU. YDS.		

COMMON EXCAVATION	3166 CU. YDS.	EMB.	2176 CU. YDS.
SUBGRADE EXCAVATION	1116 CU. YDS.		

COMMON EXC.	2002 CU. YDS.
ROCK EXC.	325 CU. YDS.
SUBGRADE EXC.	~~310~~ CU. YDS.
EMB.	1381 CU. YDS.

COMMON EXC.	4892 ~~4827~~ CU. YDS.
ROCK EXC.	0 ~~65~~ CU. YDS.
SUBGRADE EXC.	~~491~~ 959 CU. YDS.
EMB.	3383 CU. YDS.

Fed. Proj. No.

℄ CULV. 216+18
INPL. 18"x38' CMP.
Remove
24"x84' R.C. Pipe Culv. CL. II
2-24" R.C. Pipe Culv. Aprons.
Place Culv. on "B" Bedding
F&I. Approved Joint Ties.
3.3 CU. YDS. RIP RAP.
2.4 CU. YDS. FILTER BLANKET

MOVED TO LEFT
STA. 223+22
F.E. LT. 218+40
INPL. 18"x24' CMP.
Remove
18"x28' C.S. Pipe Culv.
2-18" G.S. Pipe Culv. Aprons.

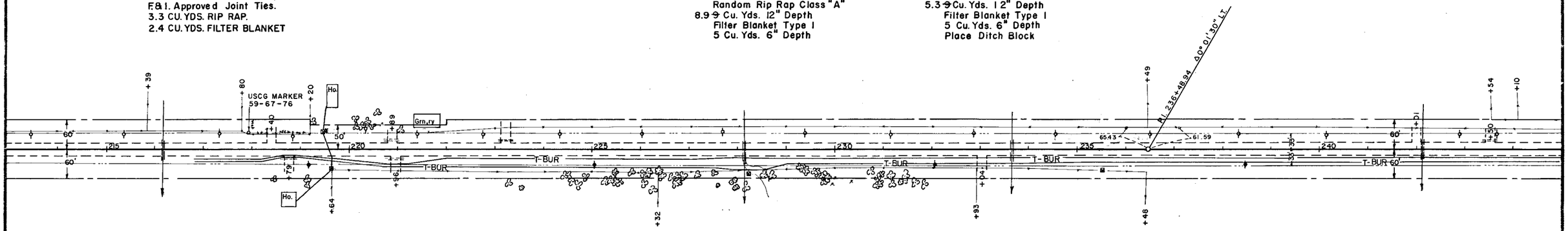
FM.E. LT. 220+89
INPL. 15"x24' CMP.
Remove
18"x32' C.S. Pipe Culv.
2-18" G.S. Pipe Culv. Aprons.

℄ CULV. 228+13
INPL. 24"x43' CMP.
W/MASONARY HD.WLS.
Remove
36"x78' R.C. Pipe Culv. CL. II Skew 30°
2-36" R.C. Pipe Culv. Aprons
Place Culv. on "B" Bedding
F&I. Approved Joint Ties
Random Rip Rap Class "A"
8.9 ~~9~~ Cu. Yds. 12" Depth
Filter Blanket Type I
5 Cu. Yds. 6" Depth

℄ CULV. 233+66
INPL. 24"x40' CMP.
Remove
36"x64' R.C. Pipe Culv. CL. II Skew 15°
2-36" R.C. Pipe Culv. Aprons
Place Culv. on "B" Bedding
F&I. Approved Joint Ties
Random Rip Rap Class "A"
5.3 ~~9~~ Cu. Yds. 12" Depth
Filter Blanket Type I
5 Cu. Yds. 6" Depth
Place Ditch Block

F.E. LT. 242+01
NO CULV. INPL.
No Culv. Req'd.

F.E. LT. 243+50
INPL. 15"x24' CMP.
Remove
18"x28' C.S. Pipe Culv.
2-18" G.S. Pipe Culv. Aprons.



FM.E. RT. 218+79
INPL. 15"x24' CMP.
Remove
No Culv. Req'd.

F.E. RT. 220+96
INPL. 15"x24' CMP
Remove
18"x28' C.S. Pipe Culv.
2-18" G.S. Pipe Culv. Aprons.

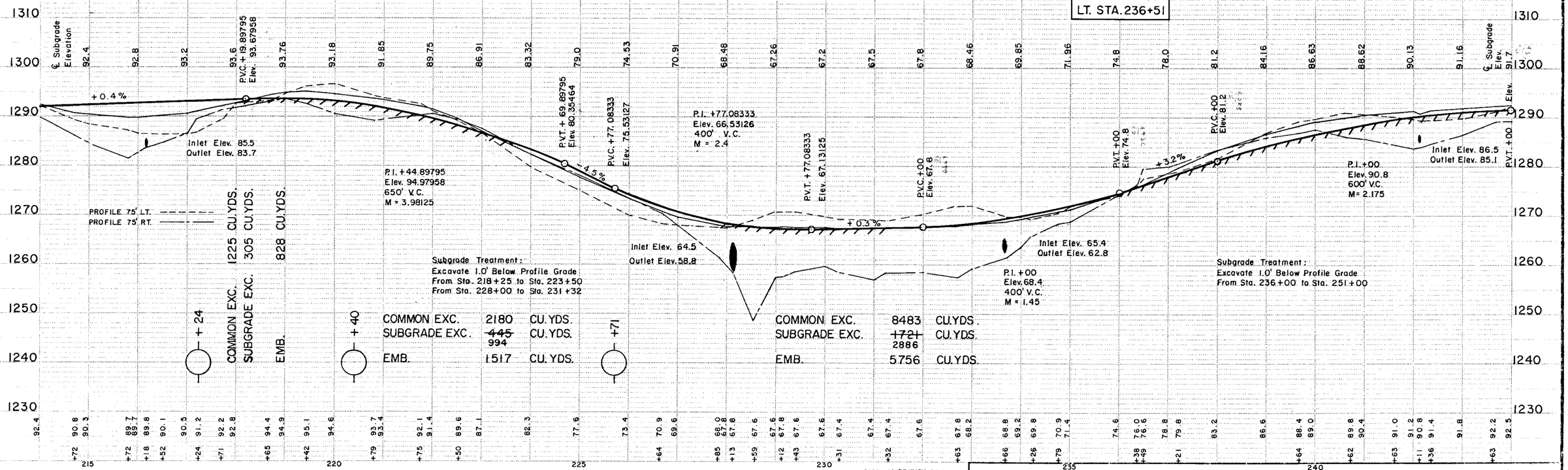
F.E. RT. 233+04
NO CULV. INPL.
No Culv. Req'd.

CONST. F. ENT. RT. STA. 236+36
18"x28' C.S. PIPE CULV.
2-18" G.S. PIPE CULV. APRONS

℄ CULV. 242+10
18"x36' CMP.
Remove
24"x60' R.C. Pipe Culv. CL. II
2-24" R.C. Pipe Culv. Aprons
Place Culv. on "B" Bedding
F&I. Approved Joint Ties

CL. ~~2~~ — GR. ~~2~~ — CL. ~~48~~ 42 — GR. ~~29~~ 32 — CL. ~~5~~ 7 — GR. ~~5~~ 9 — CL. ~~21~~ 21 — GR. ~~20~~ 37

B.M. EL. 1274.56
SPK. IN PP. 32'
LT. STA. 236+51



Subgrade Treatment:
Excavate 1.0' Below Profile Grade
From Sta. 218+25 to Sta. 223+50
From Sta. 228+00 to Sta. 231+32

+ 24	COMMON EXC.	1225	CU. YDS.
	SUBGRADE EXC.	305	CU. YDS.
	EMB.	828	CU. YDS.
+ 40	COMMON EXC.	2180	CU. YDS.
	SUBGRADE EXC.	~~445~~ 994	CU. YDS.
	EMB.	1517	CU. YDS.
+ 71	COMMON EXC.	8483	CU. YDS.
	SUBGRADE EXC.	~~1721~~ 2886	CU. YDS.
	EMB.	5756	CU. YDS.

Subgrade Treatment:
Excavate 1.0' Below Profile Grade
From Sta. 236+00 to Sta. 251+00

OLMSTED COUNTY, MINN.

State Proj. No. SAP 55-610-08 CSAH. 10 Sheet No. 4 of 59 Sheets

AS BUILT PLANS

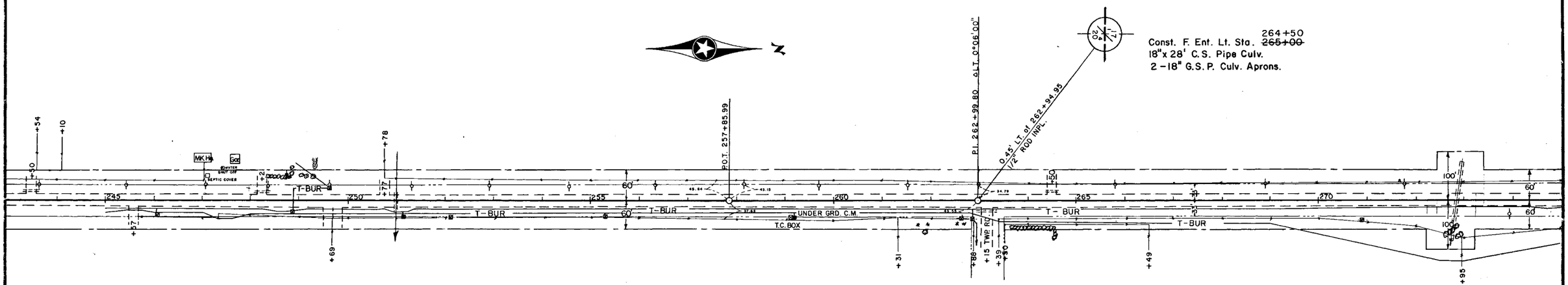
Fed. Proj. No.

FM.E. LT. 248+21
INPL. 18"x 24' CMP.
Remove

18"x 32' C.S. Pipe Culv
2-18" G.S.P. Culv. Aprons.

F.E. LT. 250+77
NO CULV. INPL.
No Culv. Req'd.

Const. F. Ent. Lt. Sta. 264+50 ~~265+00~~
18"x 28' C.S. Pipe Culv.
2-18" G.S.P. Culv. Aprons.



F.E. RT. 245+57
NO CULV. INPL.

18"x 28' C.S. Pipe Culv.
2-18" G.S. Pipe Culv. Aprons.

F.E. RT. 249+69
DOUBLE ENT.
NO CULV. INPL.
No Culv. Req'd.

℄ CULV. 250+98
INPL. 18"x 36' CMP.
Remove

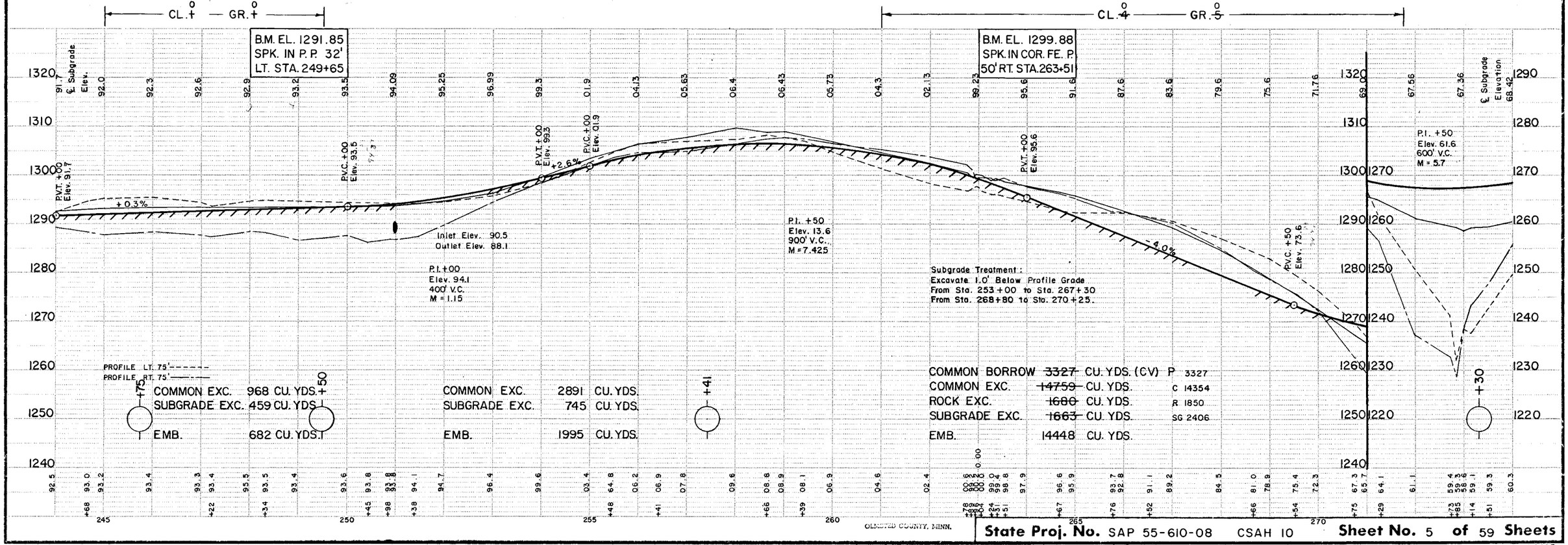
30"x 64' R.C. Pipe Culv. CL. II
2-30" R.C. Pipe Culv. Aprons
Place Culv. on "B" Bedding
F&I Approved Joint Ties. 6
Random Rip-Rap Class "A" 7 Cu.Yds. 12" Depth.
Filter Blanket Type I 3 Cu.Yds. 6" Depth.

TWP. RD. RT. 263+15
INPL. 18"x 40' CMP.
Remove

18"x 36' C.S. Pipe Culv.
2-18" G.S.P. Culv. Aprons.

℄ BOX CULV. 272+85
INPL w 46 x 102' CONC.
BOX CULV.
Remove Structure

See Sheet 13A thru Sheet 13G
for detail drawings of culvert
and water level control struc.



COMMON EXC.	968 CU. YDS.	COMMON EXC.	2891 CU. YDS.	COMMON BORROW ~~3327~~ CU. YDS. (CV)	P 3327
SUBGRADE EXC.	459 CU. YDS.	SUBGRADE EXC.	745 CU. YDS.	COMMON EXC. ~~14759~~ CU. YDS.	C 14354
				ROCK EXC. ~~1680~~ CU. YDS.	R 1850
EMB.	682 CU. YDS.	EMB.	1995 CU. YDS.	SUBGRADE EXC. ~~1663~~ CU. YDS.	SG 2406
				EMB. 14448 CU. YDS.	

OLMSTED COUNTY, MINN.

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AS BUILT PLANS

FM. E. LT. 278+42
INPL. 18"x24' CMP
Remove

Const. Culv. ~~33~~ 31' LT. Between Sta. 278+26 & 280+00
18"x~~174~~ 178' C.S. Pipe Culv.
2-18" G.S. P. Culv. Aprons.
Inlet Elev. 1283.4
Outlet Elev. 1279.0

F.E. LT. 289+20
NO CULV. INPL.
No Culv. Req'd.

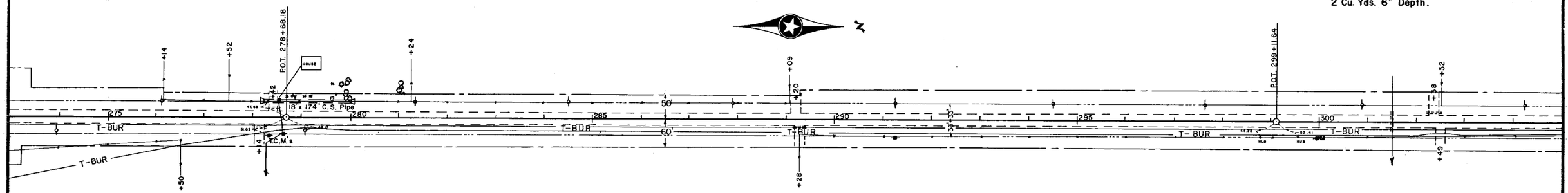
Fed. Proj. No.

℄ CULV. 301+48
INPL. 18"x40' CMP.
Remove

F.E. LT. 302+38
INPL. 15"x30' CMP.
Remove

24"x80' R.C.P. Culv. CL II
2-24" R.C.P. Culv. Aprons.
Place Culv. on "B" Bedding
F & I Approved Joint Ties
Random Rip-Rap Class "A"
4.1 ~~5~~ Cu. Yds. 12" Depth
Filter Blanket Type I
2 Cu. Yds. 6" Depth.

18"x28' C.S.P. Culv.
2-18" G.S.P. Culv.
Aprons.



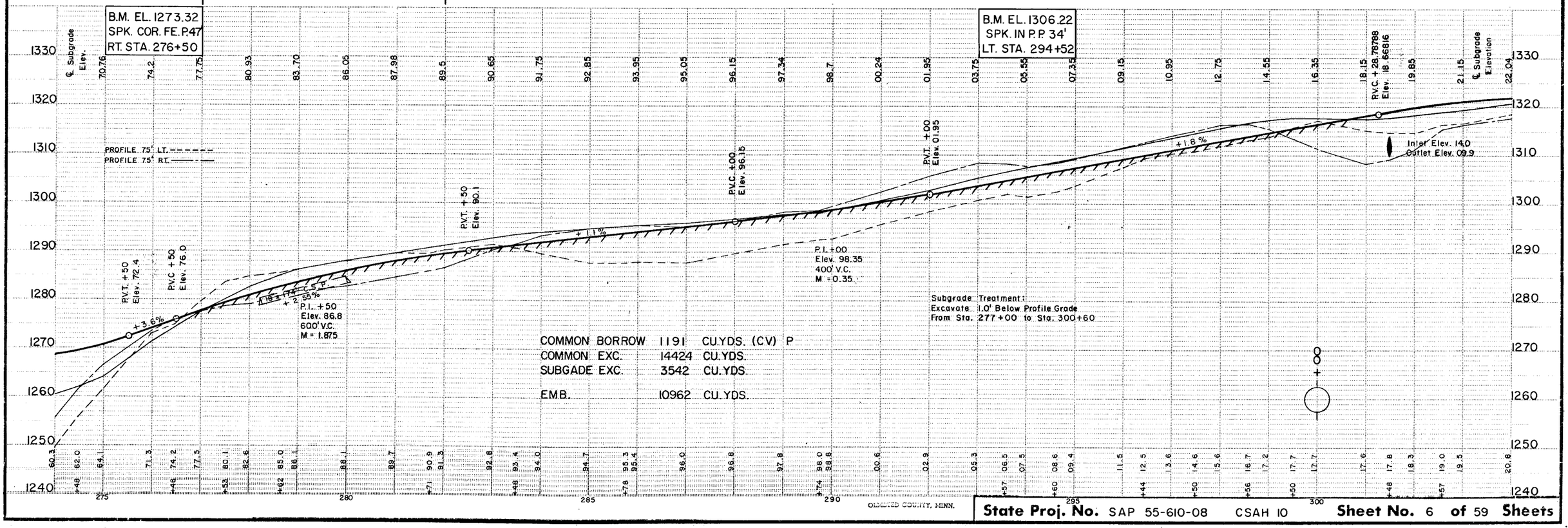
FM. E. RT. 278+14
2-18"x24' CMP
W/MASONARY HDW.
Remove

24"x32' C.S. Pipe Culv.
2-24" G.S. P. Culv. Aprons.

F.E. RT. 289+28
18"x40' C.S. PIPE CULV.
2-18" G.S. PIPE APRONS

299+40
F.E. RT. ~~302+49~~
NO CULV. INPL.

18"x28' C.S. Pipe Culv.
2-18" G.S. P. Culv. Aprons.
NO CULV. REQ'D



COMMON BORROW	1191	CU.YDS. (CV) P
COMMON EXC.	14424	CU.YDS.
SUBGADE EXC.	3542	CU.YDS.
EMB.	10962	CU.YDS.

OLMSTED COUNTY, MINN.

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AS BUILT PLANS

F.E. LT. 310+~~22~~ 15
NO CULV. INPL.
18"x 28' C.S. Pipe Culv.
2-18" G.S. Pipe Culv. Aprons.

TWP. RD. LT. 315+70
INPL. 15"x 30' CMP.
Remove
24"x 36' C.S. Pipe Culv.
2-24" G.S. Pipe Culv. Aprons.

℄ CULV. 318+63
INPL. 36"x 50' CMP.
Remove
42"x 78' R.C. Pipe Culv. CL. II
2-42" R.C. Pipe Culv. Aprons
Place Culv. on "B" Bedding
F&I. Approved Joint Ties 7.3
Random Rip-Rap Class "A" ~~11~~ Cu. Yds. 12" Depth.
Filter Blanket Type I 6 Cu. Yds. 6" Depth.

8" Corrugated Metal Tile Outlet
28' LT. Sta. 318+~~63~~ 67
Remove 23 Lin. Feet Tile.

F&I 3.0 Lin. Ft. Metal Insp. Tee at 38'
8"x 110' C.S. Pipe Drain.
Outlet Elev. 93.0

℄ CULV. 323+30
INPL. 24"x 53' CMP.
Remove
Move Culv. to Sta. 323+12 Skew 30°
36"x 90' R.C. Pipe Culv. Class II
2-36" R.C. Pipe Culv. Aprons
Place Culv. on "B" Bedding
F&I. Approved Joint Ties 7.6
Random Rip Rap Class "A" ~~9~~ Cu. Yds. 12" Depth
Filter Blanket Type I 5 Cu. Yds. 6" Depth.
PLACED DITCH BLOCK.
8" Corrugated Metal Tile Outlet
28' Left Sta. 323+~~30~~ 56
Remove 23 Lin. Ft. Tile
F&I. 4.5 Lin. Ft. Metal Inspection Tee at 35' lt.
8"x ~~130'~~ 110' C.S. Pipe Drain. Skew 30°
Inlet Elev. 04.6 Outlet Elev. 93.1

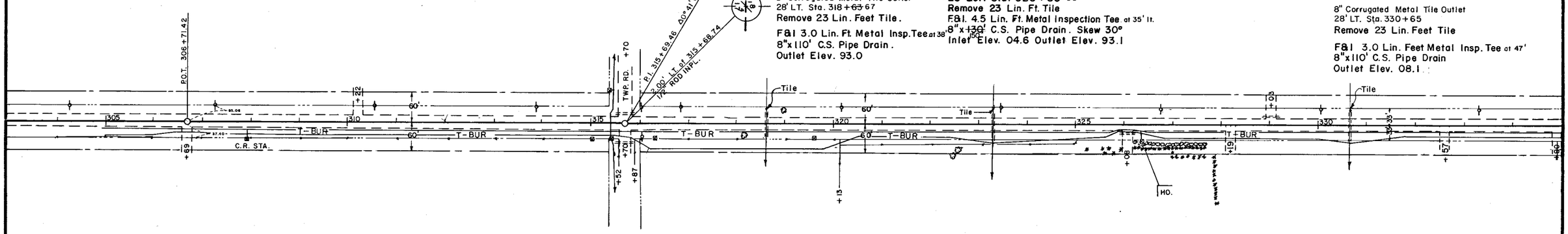
F.E. LT. 329+03
INPL. 15"x 24' CMP.
Remove
18"x 28' C.S. Pipe Culv.
2-18" G.S. Pipe Culv.
Aprons.

Fed. Proj. No.

℄ CULV. 330+65
INPL. 18"x 56' CMP.
Remove.
30"x 82' R.C. Pipe Culv. CL. II
2-30" R.C. Pipe Culv. Aprons.
Place Culv. on "B" Bedding
F&I. Approved Joint Ties 6.9
Random Rip-Rap Class "A" ~~7~~ Cu. Yds. 12" Depth
Filter Blanket Type I 4 Cu. Yds. 6" Depth

8" Corrugated Metal Tile Outlet
28' LT. Sta. 330+65
Remove 23 Lin. Feet Tile

F&I 3.0 Lin. Feet Metal Insp. Tee at 47'
8"x 110' C.S. Pipe Drain
Outlet Elev. 08.1

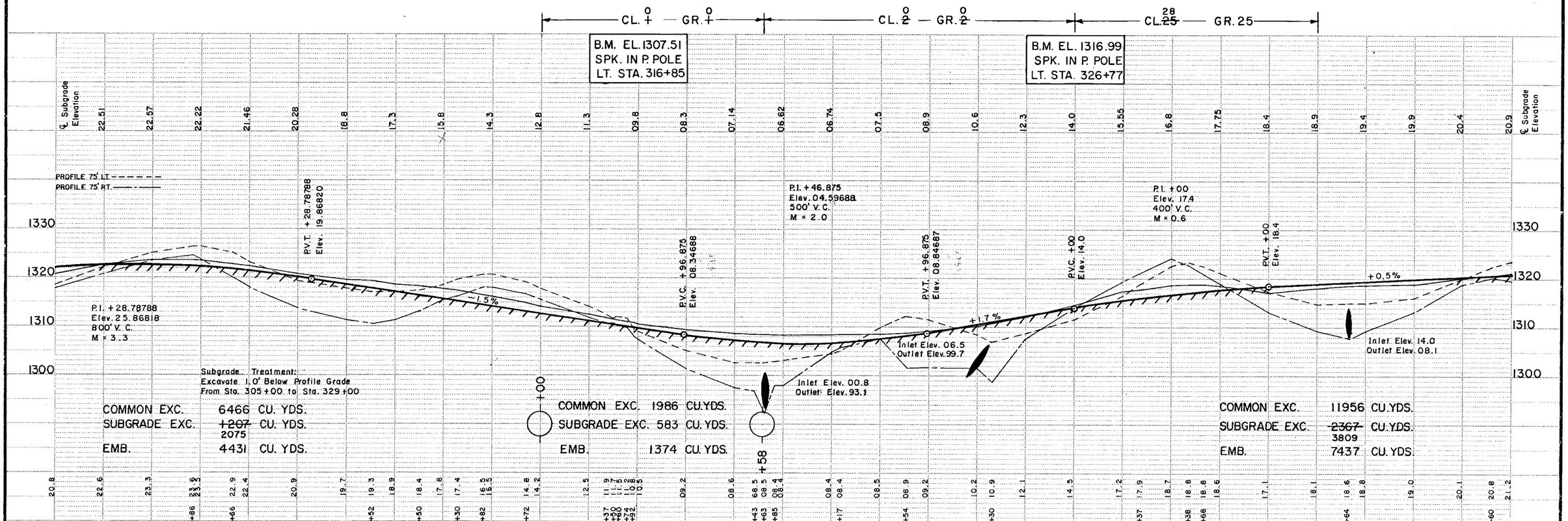


MOVED TO STA. 305+15
F.E. RT. ~~306+69~~
NO CULV. INPL.
~~18"x 28' C.S. Pipe Culv.~~
~~2-18" G.S. Pipe Culv. Aprons.~~
NO CULV. REQ'D.

FM. E. RT. 315+70
INPL. 15"x 30' CMP.
Remove
18"x 36' C.S. Pipe Culv.
2-18" G.S. Pipe Culv. Aprons.

FM. E. RT. 326+08
INPL. 15"x 32' CMP.
Remove
18"x 32' C.S. Pipe Culv.
2-18" G.S. Pipe Culv. Aprons.

F. ENT. RT. STA. 328+19
NO CULV. REQ'D



Subgrade Treatment:
Excavate 1.0' Below Profile Grade
From Sta. 305+00 to Sta. 329+00

COMMON EXC.	6466	CU. YDS.
SUBGRADE EXC.	~~1207~~ 2075	CU. YDS.
EMB.	4431	CU. YDS.

+00 +58

COMMON EXC.	1986	CU. YDS.
SUBGRADE EXC.	583	CU. YDS.
EMB.	1374	CU. YDS.

COMMON EXC.	11956	CU. YDS.
SUBGRADE EXC.	~~2367~~ 3809	CU. YDS.
EMB.	7437	CU. YDS.

OLMSTED COUNTY, MINN.

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AS BUILT PLANS

℄ CULV. 335+61
INPL. 18"x 38' CMP
Remove ~~76'~~
30"x ~~66'~~ R.C. Pipe Culv. Class II
2–30" R.C. Pipe Culv. Aprons.
Place Culv. on "B" Bedding.
F&I. Approved Joint Ties.
Place Ditch Block. 5.6
Random Rip Rap Class "A" ~~7~~ Cu. Yds. 12" Depth.
Filter Blanket Type I 4 Cu. Yds. 6" Depth.

MOVED TO STA. 343+40
F.E. LT. ~~341+84~~
NO CULV. INPL.
18"x 28' C.S. Pipe Culv.
2–18" G.S. Pipe Culv. Aprons.

CONSTRUCTED F. ENT. LT. STA. 339+37
18"x28' C.S. PIPE CULV.
2–18" G.S. PIPE APRONS

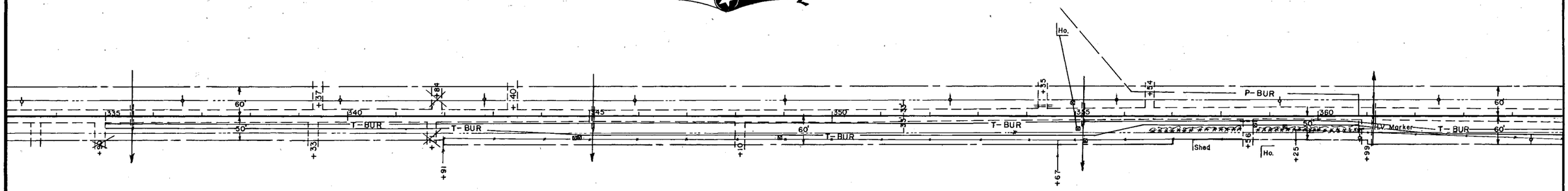
℄ CULV. 345+08
INPL. 18"x 46' CMP
Remove
24"x 86' R.C. Pipe Culv. Class II
2–24" R.C. Pipe Culv. Aprons.
Place Culv. on " B" Bedding
F&I. Approved Joint Ties 7.3
Random Rip Rap Class "A" ~~5~~ Cu.Yds. 12" Depth.
Filter Blanket Type I 3 Cu. Yds. 6" Depth.

RES. DR. LT. 354+35
INPL. 18"x 30' CMP
Remove
30"x32' C.S. Pipe Culv.
2–30" G.S. Pipe Culv. Aprons.

(NO F. ENT. PLACED.)
~~F.E. LT. 356+54~~
~~NO CULV. INPL.~~
~~18"x 44' C.S. Pipe Culv.~~
~~2–18" G.S. Pipe Culv. Aprons.~~

Fed. Proj. No.

℄ CULV. 361+11
INPL. 18"x 44' CMP
Remove
24"x 60' R.C. Pipe Culv. Class III
2–24" R.C. Pipe Culv. Aprons.
Place Culv. on "B" Bedding
F&I. Approved Joint Ties.
4.7 Cu. Yds. Rip Rap
2.4 Cu. Yds. Filter. Blanket



MOVED TO STA. 333+57
F.E. RT. ~~334+90~~
NO CULV. INPL.
No Culv. Req'd.

339+33
F.E. RT. ~~341+71~~
NO CULV. INPL.
18"x 28' C.S. Pipe Culv.
2–18" G.S. Pipe Culv. Aprons.

MOVED TO STA. 347+35
F.E. RT. ~~348+10~~
NO CULV. INPL.
~~18"x 28' C.S. Pipe Culv.~~
~~2–18" G.S. Pipe Culv. Aprons.~~
NO CULV. REQ'D

PLACED CULV. AT STA. 355+39
SKEW 30°
~~℄ CULV. 355+54~~
INPL. W46 x36' CONC. BOX CULV.
Remove Structure
48"x ~~98'~~ 114 R.C. Pipe Culv. Class III
2–48" R.C. Pipe Culv. Aprons.
Place Culv. on "B" Bedding
F&I. Approved Joint Ties. 12.4
Random Rip Rap Class "A" ~~13~~ Cu. Yds. 12" Depth.
Filter Blanket Type I 7 Cu. Yds. 6" Depth.

RES. DR. RT. 358+56
INPL. 15"x 24' CMP
Remove
No Culv. Req'd.

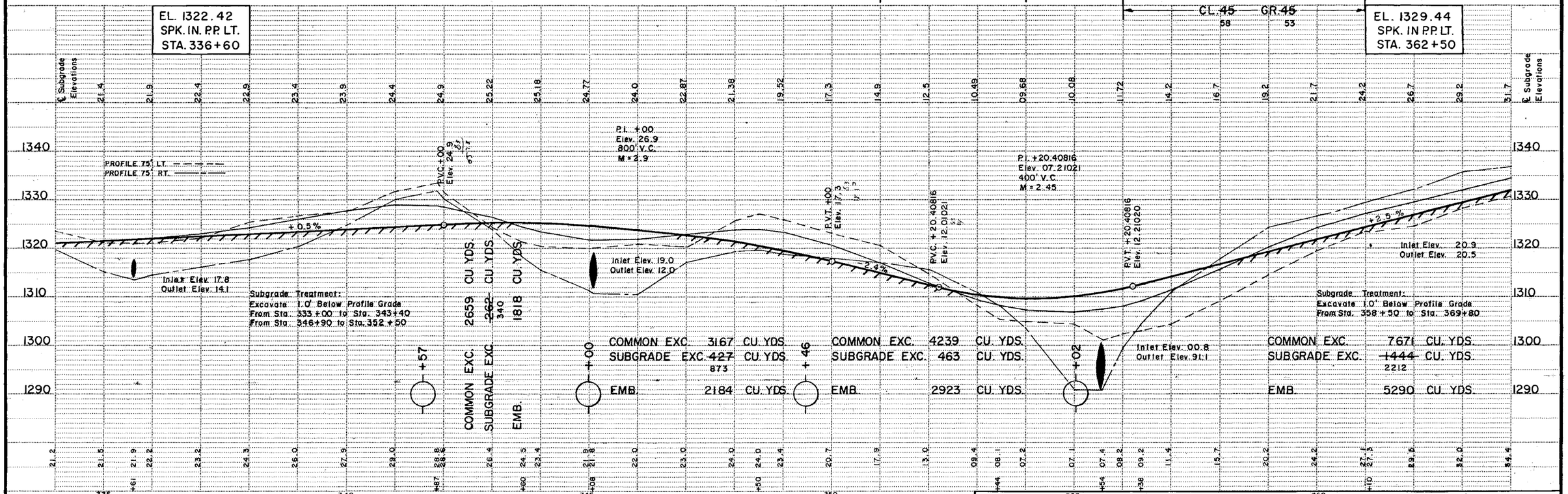
F.E. RT. 360+99
NO CULV. INPL.
No Culv. Req'd.

EL. 1322.42
SPK. IN. P.P. LT.
STA. 336+60

EL. 1329.44
SPK. IN P.P. LT.
STA. 362+50

CL. 1 — GR. 1

CL. 45 — GR. 45
58 53



Subgrade Treatment:
Excavate 1.0' Below Profile Grade
From Sta. 333+00 to Sta. 343+40
From Sta. 346+90 to Sta. 352+50

COMMON EXC.	2659	CU. YDS.	
SUBGRADE EXC.	~~262~~ 340	CU. YDS.	
EMB.	1818	CU. YDS.	

+57

COMMON EXC. 3167 CU. YDS.
SUBGRADE EXC. ~~427~~ 873 CU. YDS.
EMB. 2184 CU. YDS.

+00

+46

COMMON EXC. 4239 CU. YDS.
SUBGRADE EXC. 463 CU. YDS.
EMB. 2923 CU. YDS.

+02

Subgrade Treatment:
Excavate 1.0' Below Profile Grade
From Sta. 358+50 to Sta. 369+80

COMMON EXC.	7671	CU. YDS.	
SUBGRADE EXC.	~~1444~~ 2212	CU. YDS.	
EMB.	5290	CU. YDS.	

OLMSTED COUNTY, MINN.

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AS BUILT PLANS

TWP. RD. LT. 368+28
NO CULV. INPL.
18"x~~36'~~ C.S. Pipe Culv.
2-18" G.S. Pipe Culv.
Aprons.

FM.E. LT. 370+55
INPL. 15"x 32' CMP.
Remove
18"x32' C.S. Pipe Culv.
2-18" G.S. Pipe Culv. Aprons.

~~F.E. LT. 376+08~~
~~NO CULV. INPL.~~
~~18"x28' C.S. Pipe Culv.~~
~~2-18" G.S. Pipe Culv.~~
~~Aprons.~~

~~F.E. LT. 377+06~~
~~NO CULV. INPL.~~
~~18"x28' C.S. Pipe Culv.~~
~~2-18" G.S. Pipe Culv.~~
~~Aprons.~~

CONSTRUCTED DOUBLE F. ENT. LT. STA. 377+91
NO CULV. REQ'D

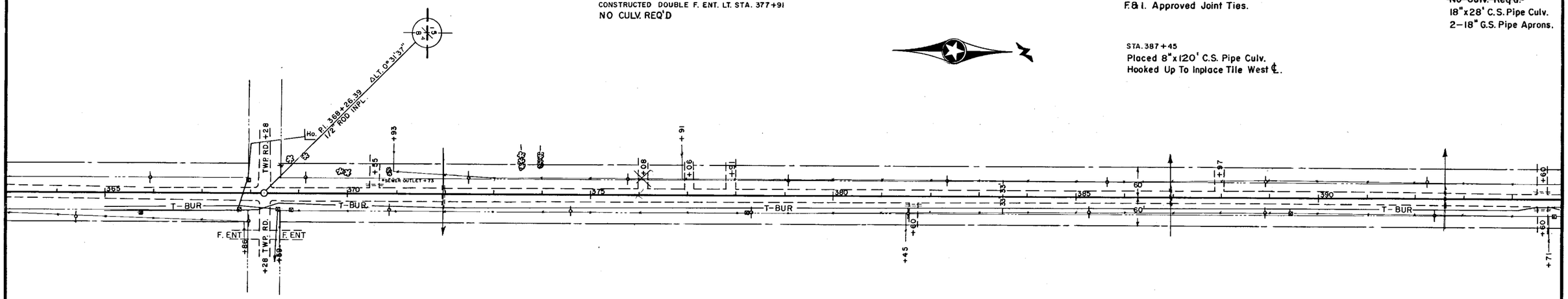
℄ CULV. 386+96
INPL. 18"x 32' CMP.
Remove
30"x62' R.C. Pipe Culv. CL. III
2-30" R.C. Pipe Culv. Aprons.
Place Culv. on "B" Bedding
F&I. Approved Joint Ties.

(NO F. ENT. PLACED)
F.E. LT. 387+97
NO CULV. INPL.

~~18"x28' C.S. Pipe Culv.~~
~~2-18" G.S. Pipe Culv. Aprons.~~

F.E. LT. 394+60
INPL. 15"x 24' CMP.
Remove
~~No Culv. Req'd.~~
18"x28' C.S. Pipe Culv.
2-18" G.S. Pipe Aprons.

STA. 387+45
Placed 8"x120' C.S. Pipe Culv.
Hooked Up To Inplace Tile West ℄.



TWP. RD. RT. 368+28
NO CULV. INPL.
~~18"x36' C.S. Pipe Culv.~~
~~2-18" G.S. Pipe Culv. Aprons.~~
NO CULV. REQ'D.

℄ CULV. 371+97
INPL. 18"x 34" CMP
Remove
24"x70' R.C. Pipe Culv. Class II
2-24" R.C. Pipe Culv. Aprons.
Place Culv. on "B" Bedding
F&I. Approved Joint Ties.

F.E. RT. 381+60
INPL. 15"x 24' CMP
Remove
18"x 28' C.S. Pipe Culv.
2-18" G.S. Pipe Culv. Aprons.

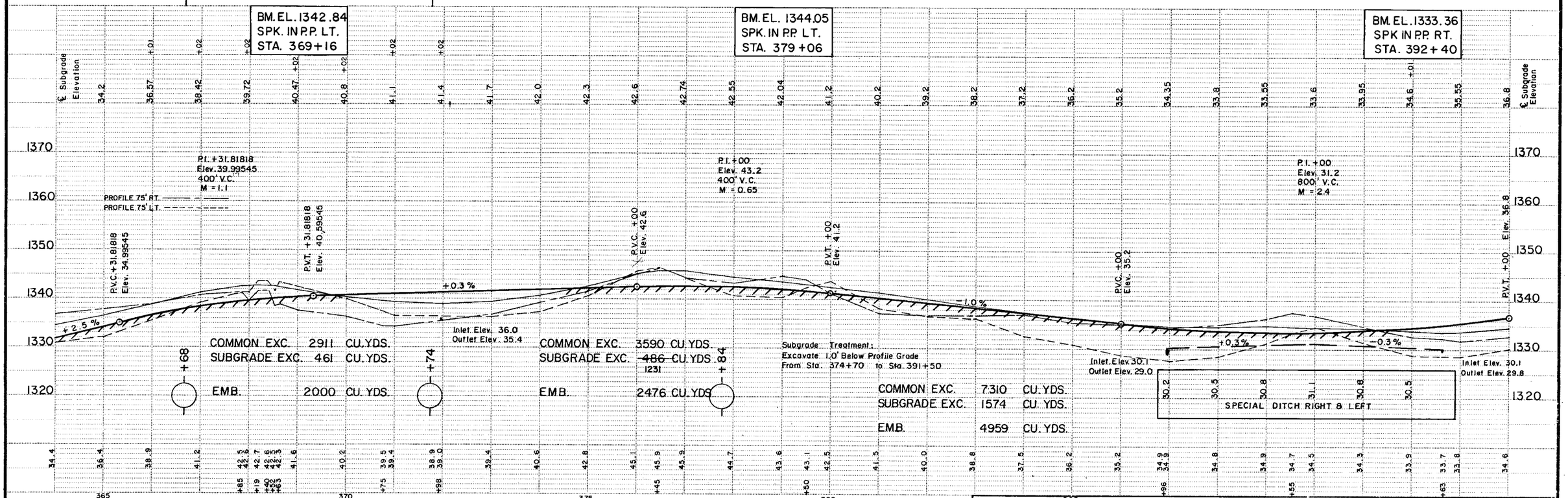
℄ CULV. 392+62
INPL. 18"x 32' CMP.
Remove
30"x62' R.C. Pipe Culv. Class II
2-30" R.C. Pipe Culv. Aprons.
Place Culv. on "B" Bedding
F&I. Approved Joint Ties.
STA. 392+51
Placed 8"x120' C.S. Pipe Culv.
Hooked Up To Inplace Tile West Of ℄.

CL. 3 — GR. 3

BM. EL. 1342.84
SPK. IN P.P. LT.
STA. 369+16

BM. EL. 1344.05
SPK. IN P.P. LT.
STA. 379+06

BM. EL. 1333.36
SPK IN P.P. RT.
STA. 392+40



COMMON EXC. 2911 CU. YDS.
SUBGRADE EXC. 461 CU. YDS.
+68
EMB. 2000 CU. YDS.

Inlet. Elev. 36.0
Outlet Elev. 35.4

COMMON EXC. 3590 CU. YDS.
SUBGRADE EXC. ~~486~~ 1231 CU. YDS.
+74 +84
EMB. 2476 CU. YDS.

Subgrade Treatment:
Excavate 1.0' Below Profile Grade
From Sta. 374+70 to Sta. 391+50

COMMON EXC. 7310 CU. YDS.
SUBGRADE EXC. 1574 CU. YDS.
EMB. 4959 CU. YDS.

Inlet. Elev. 30.1
Outlet Elev. 29.0

SPECIAL DITCH RIGHT & LEFT

Inlet Elev. 30.1
Outlet Elev. 29.8

OLMSTED COUNTY, MINN.

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AS BUILT PLANS

CONST. F. ENT. LT. STA. 401+20
NO CULV. REQ'D.

F.E. 407+72
INPL. 15"x24' CMP
Remove
~~18"x28' C.S. Pipe Culv.~~
~~2-18" G.S. Pipe Culv. Aprons.~~

FM.E. 413+56
INPL. 15"x24' CMP
Remove
24"x32' C.S. Pipe Culv.
2-24' G.S. Pipe Culv. Aprons.

F.E. 416+10
INPL. 18"x26' CMP
Remove
24"x28' C.S. Pipe Culv.
2-24" G.S. Pipe Culv.
Aprons.

℄ CULV. 417+55
INPL. 30"x48' CMP
Remove

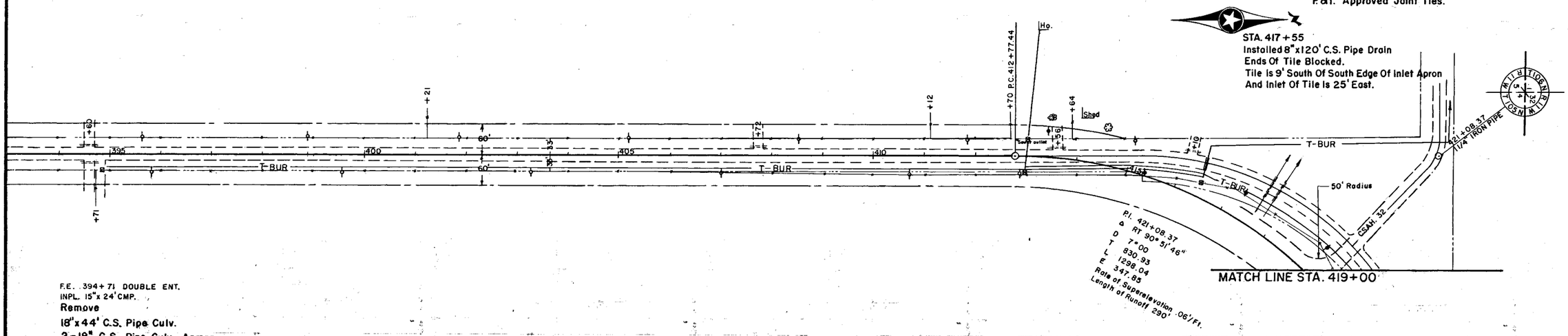
Fed. Proj. No.

℄ CULV. 417+75
INPL. 30"x48' CMP
Remove

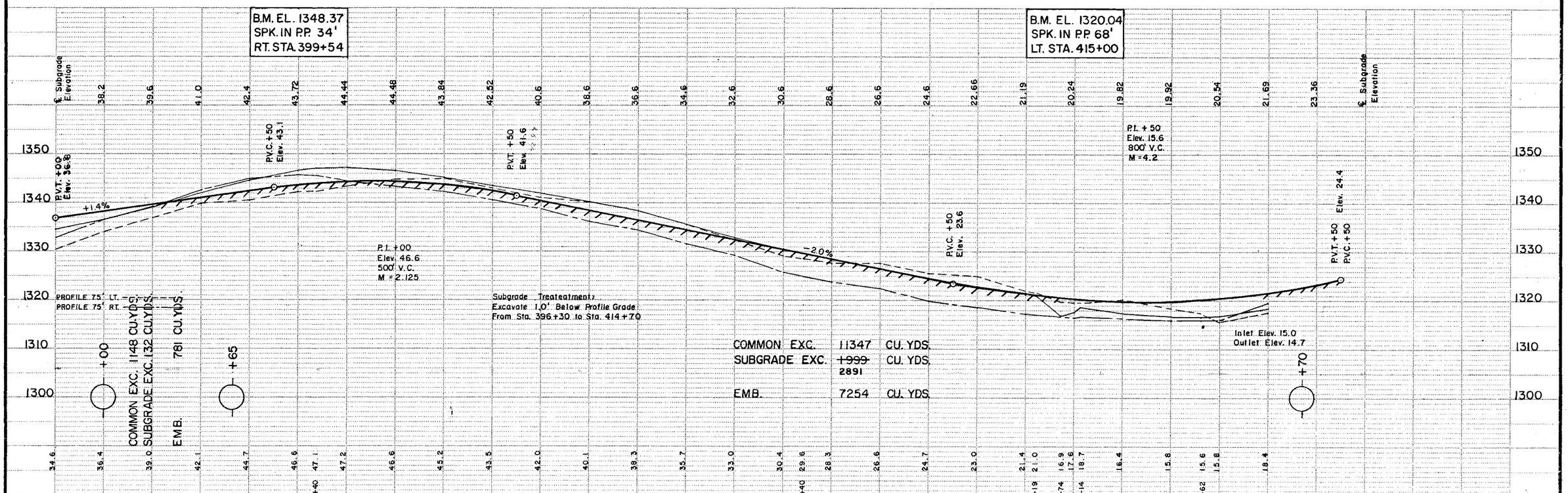
℄ C.S.A.H. 32 419+53
No Culv. Inpl.
No Culv. Req'd.

Const. ℄ Culv. Sta. 417+65
59" Span x 66' R.C. Pipe-A Culv. CL. II A
2-59" Span R.C. Pipe-Arch Aprons.
Place Culv. on "B" Bedding.
F&I. Approved Joint Ties.

STA. 417+55
Installed 8"x120' C.S. Pipe Drain
Ends Of Tile Blocked.
Tile Is 9' South Of South Edge Of Inlet Apron
And Inlet Of Tile Is 25' East.



F.E. 394+71 DOUBLE ENT.
INPL. 15"x 24'CMP.
Remove
18"x44' C.S. Pipe Culv.
2-18" G.S. Pipe Culv. Aprons.



OLMSTED COUNTY, MINN.

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AS BUILT PLANS.

RES. DR. 422+90
NO CULV. INPL.
~~18"x32' C.S. Pipe Culv.~~
~~2-18" G.S. Pipe Culv.~~
NO CULV. REQ'D.

℄ CULV. 428+13
INPL. 18"x35'CMP.
Remove

30"x 72' R.C. Pipe Culv. Class II
2-30" R.C. Pipe Culv. Aprons.
Place Culv. on "B" Bedding.
F&I. Approved Joint Ties.
Random Rip-Rap Class "A" ~~7~~ 7.5 Cu. Yds. 12" Depth.
Filter Blanket Type I 3 Cu. Yds. 6" Depth.

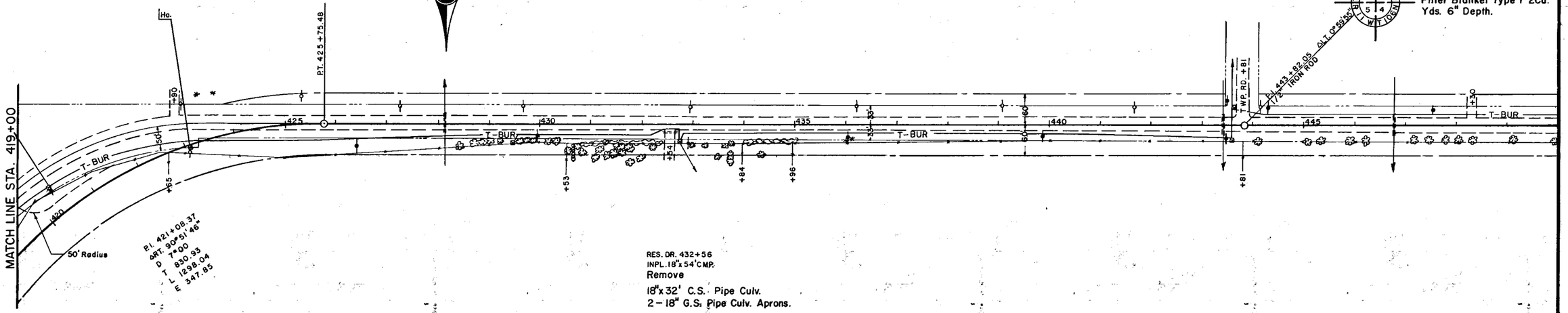
℄ CULV. 443+40
INPL. 18"x 32'CMP.
Remove
No Culv. Req'd.

Fed. Proj. No.

TWP. RD. 443+81
62'NO CULV. INPL.
18"x ~~36'~~ C.S. Pipe Culv.
2-18" G.S. Pipe Culv.

℄ CULV. 446+75
INPL. 18"x 36'CMP
Remove +4'
24"x62'R.C.P Culv. CL. II
2-24" R.C.P. Culv.
Aprons
Place Culv. on "B" Bedding.
F&I. Approved Joint Ties.
Const. Ditch Block.
Random Rip-Rap Class "A" ~~5~~ 5.6 Cu. Yds.
12" Depth.
Filter Blanket Type I 2Cu. Yds. 6" Depth.

F.E. ~~448+30~~ 448+90
NO CULV. INPL.
~~18"x28'C.S.P.~~
~~2-18" G.S.P.~~
~~Aprons.~~
NO CULV. REQ'D.

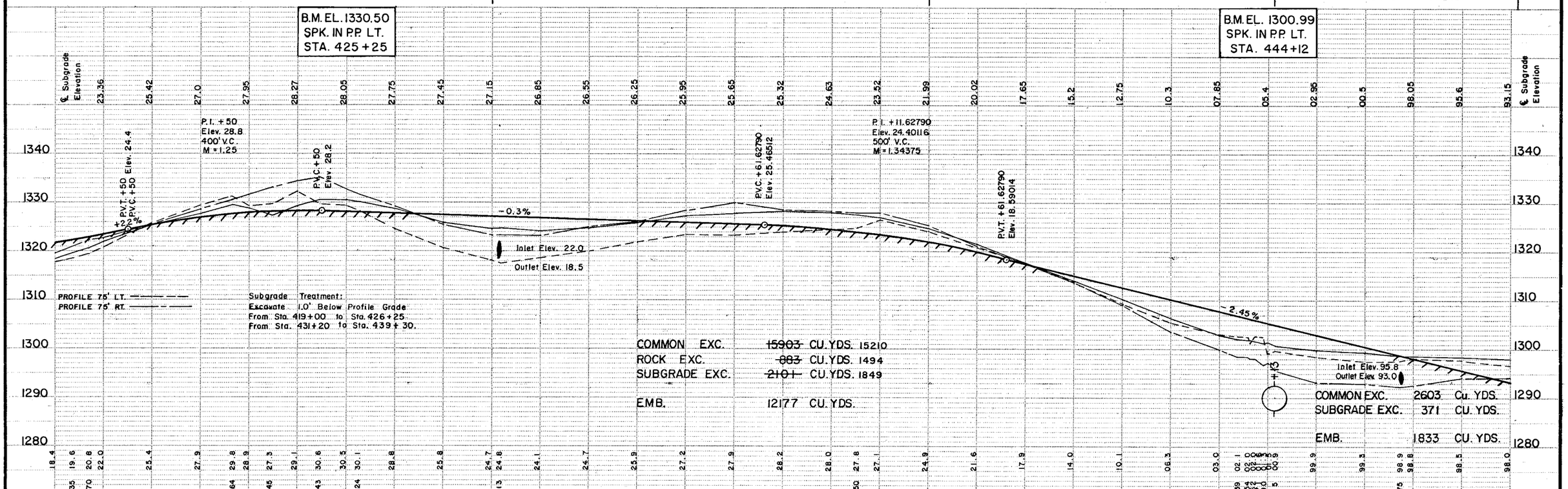


RES. DR. 432+56
INPL. 18"x 54'CMP.
Remove
18"x 32' C.S. Pipe Culv.
2-18" G.S. Pipe Culv. Aprons.

CL. ~~27~~ 7 — GR. ~~27~~ 40 — CL. 1 — GR. 1 — CL. 10 — GR. ~~10~~ 9

B.M. EL. 1330.50
SPK. IN P.P. LT.
STA. 425+25

B.M. EL. 1300.99
SPK. IN P.P. LT.
STA. 444+12



Subgrade Treatment:
Excavate 1.0' Below Profile Grade
From Sta. 419+00 to Sta. 426+25
From Sta. 431+20 to Sta. 439+30.

COMMON EXC.	~~15903~~	CU. YDS. 15210
ROCK EXC.	~~883~~	CU. YDS. 1494
SUBGRADE EXC.	~~2101~~	CU. YDS. 1849
EMB.	12177	CU. YDS.

COMMON EXC.	2603	Cu. YDS.
SUBGRADE EXC.	371	CU. YDS.
EMB.	1833	CU. YDS.

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AS BUILT-PLANS

RES. DR. 454+30
INPL. 18"x 32' CMP.
Remove

18"x 32' C.S.Pipe Culv.
2-18" G.S. P. Aprons.

℄ BOX CULV. 455+86
INPL. 4' x 6'x 32' CONC.
BOX CULV.
Remove Structure

Const. Culv. Sta. 455+68 Skew 15°.
72"x 72' R.C.P. Culv. ClassII.
2-72" R.C.P. Culv. Aprons.
Place Culv. on "B" Bedding.
F.& I. Approved Jiont Ties. 24.6
Random Rip-Rap Class "A" ~~25~~ Cu. Yds. 12" Depth.
Filter Blanket Type I 13 Cu. Yds. 6" Depth.

F.E. ~~457+58~~ 456+00
INPL. 15"x 24' CMP.
Remove

18"x 28' C.S. P. Culv.
2-18" G.S.P. Culv.
Aprons.

F.E. 462+25
INPL. 15"x 24' CMP.
Remove

18"x 28' C.S. Pipe Culv.
2-18" G.S. Pipe Aprons.

℄ CULV. 466+76
INPL. 36"x 38' CMP.
Remove

54"x 64' R.C. Pipe Culv. ClassII
2-54" R.C. Pipe Culv. Aprons.
Place Culv. on "B" Bedding.
F.& I. Approved Joint Ties. 10.1
Random Rip Rap Class "A" ~~16~~ Cu. Yds. 12" Depth.
Filter Blanket Type I 8 Cu. Yds. 6" Depth.

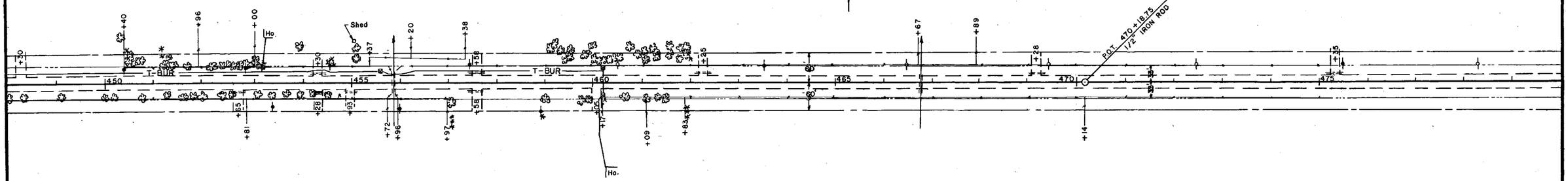
F.E. 469+28
INPL. 18"x 24' CMP.
Remove

18"x 28' C.S. Pipe Culv.
2-18" G.S. Pipe Culv.

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F.E. ~~475+35~~ 474+75
INPL. 18"x 24' CMP.
Remove

18"x 28' C.S. Pipe Culv.
2-18" G.S. Pipe Culv. Aprons.



F.E. 452+65
INPL. 15"x 24' CMP.
Remove

18"x 28' C.S.P. Culv.
2-18" G.S.P. Aprons.

(NOT REPLACED?)
F.E. 454+28
INPL. WOOD & CONC.
CATTLE GUARD
11'W. x 8'D.
Owner to Remove
Cattle Guard.
~~18"x 28' C.S.P. Culv.~~
~~2-18" G.S.P. Aprons.~~

453+75
F.E. ~~454+93~~
INPL. 15"x 24' CMP.
Remove

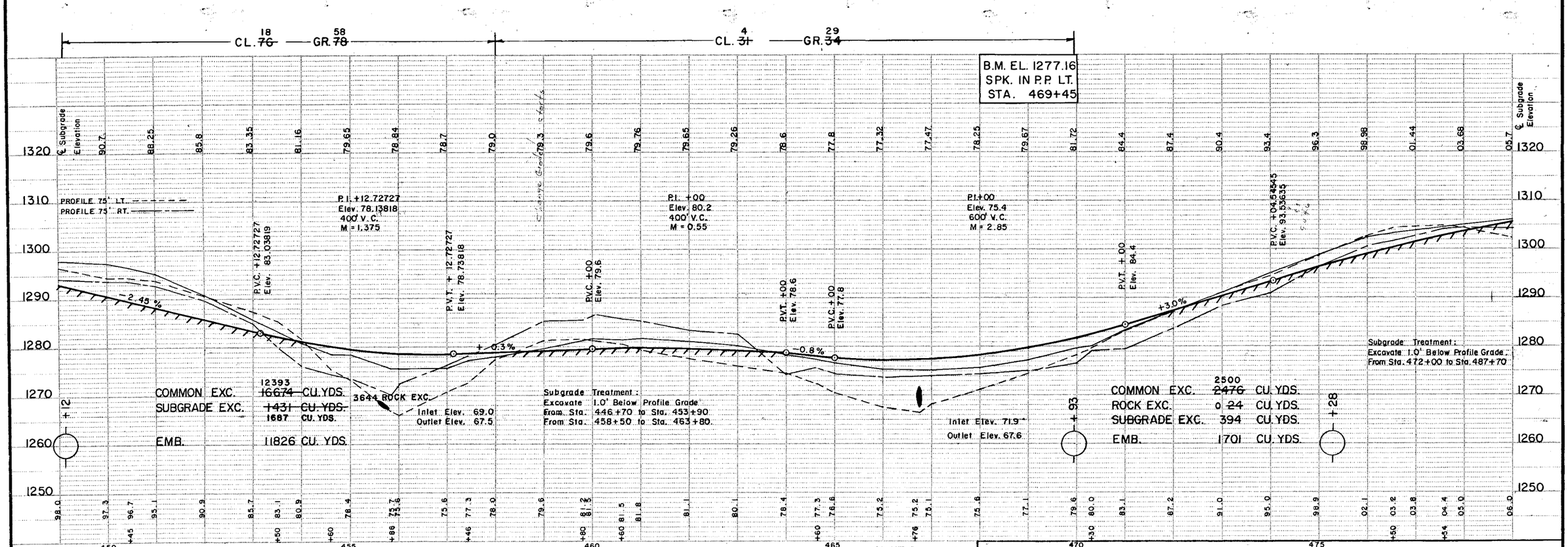
18"x 28' C.S.P. Culv.
2-18" G.S.P. Aprons.

06
F.E. 457+~~58~~
INPL. 15"x 24' CMP.
Remove

18"x 28' C.S.P. Culv.
2-18" G.S.P.
Aprons.

RES. DR. 460+05
NO CULV. INPL.

~~18"x 32' C.S. Pipe Culv.~~
~~2-18" G.S. Pipe Aprons.~~
NO CULV. REQ'D.



COMMON EXC. ~~16674~~ 12393 CU. YDS.
SUBGRADE EXC. ~~1431~~ CU. YDS.
~~1687~~ CU. YDS.
3644 ROCK EXC.
EMB. 11826 CU. YDS.

Inlet Elev. 69.0
Outlet Elev. 67.5

Subgrade Treatment:
Excavate 1.0' Below Profile Grade
From Sta. 446+70 to Sta. 453+90
From Sta. 458+50 to Sta. 463+80

Inlet Elev. 71.9
Outlet Elev. 67.6

COMMON EXC. ~~2476~~ 2500 CU. YDS.
ROCK EXC. 0 24 CU. YDS.
SUBGRADE EXC. 394 CU. YDS.
EMB. 1701 CU. YDS.

Subgrade Treatment:
Excavate 1.0' Below Profile Grade
From Sta. 472+00 to Sta. 487+70

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F. ENT. LT. STA. 485+20
18"x28' C.S. Pipe Culv.
2–18" G.S. Pipe Aprons.

℄ CULV. 489+73
INPL. 24"x34' CMP.
Remove

30"x70' R.C. Pipe Culv. Class II
2–30" R.C. Pipe Culv. Aprons.
Place Culv. on "B" Bedding.
F.&I. Approved Joint Ties. 8.9
Random Rip Rap Class "A" ~~7~~ Cu.Yds. 12" Depth.
Filter Blanket Type I 4 Cu.Yds. 6" Depth.

F.E. 499+~~77~~ 55
INPL. 18"x29' CMP. W/A
Remove 34 Lin. Feet.
18"x28' C.S.Pipe Culv.
2–18" G.S. Pipe Aprons.

℄ CULV. 503+82
24"x78' S.C.P. W/A
No Change

P.I. 496+55.39
ΔLT. 89°39'56"
D 7°00'
R 818.75
L 1280.94

MATCH LINE STA. 495+00

CSAH 30

50' Radius

P.C. 488+41.64

TWP. RD.

T-BUR

Ho.

END: SAP 55-610-08
Sta. 503+80.0

To Dover : Graded in 1959 SAP 55-610-01
Surfaced in 1961 SP 55-610-03

485+20
F.E. ~~483+20~~
INPL. 15"x24' CMP.
Remove
18"x28' C.S. Pipe Culv.
2–18" G.S. Pipe Aprons.

FM. E. 487+15
INPL. 18"x36' CMP.
Remove
18"x~~32~~34' C.S. Pipe Culv.
2–18" G.S. Pipe Aprons.

CSAH 30 494+98
Inpl. 30"x92' CMP. W/A.
Remove 100 Lin. Feet
24"x92' C.S.P. Culv.
2–24" G.S.P. Aprons.

P.I. 496+55.39
CAST IRON MONUMENT
ΔLT 89°39'56"

T 109 N R 11 W
R 11 W T 109 N
33 34
4 3

499+55
F.E. ~~500+03~~
NO CULV. INPL.
18"x28' C.S. Pipe Culv.
2-18" G.S. Pipe Aprons.

CL. 29 — GR. 29

B.M. EL. 1306.88
SPK. IN P.P. LT.
STA. 481+27

℄ Subgrade Elevation

07.5 09.08 10.44 11.58 12.5 13.3 14.1 14.9 15.7 16.5 17.3 18.1 18.9 19.7 20.5 21.3 22.1 22.76 23.13 23.22 23.03 22.56 21.8 20.9

℄ Subgrade Elev.

P.V.T. +04.54545
Elev. 12.53636

P.V.C. +00
Elev. 22.1

P.V.T. +00
Elev. 21.8

1330
1320
1310
1300

PROFILE 75' LT.
PROFILE 75' RT.

+0.8%

-0.9%

P.I. +04.54545
Elev. 08.53635
1000' V.C.
M = 2.75

P.I. +00
Elev. 24.5
600' V.C.
M = 1.275

Inlet Elev. 11.9
Outlet Elev. 09.0

Subgrade Treatment:
Excavate 1.0' Below Profile Grade
From Sta. 495+65 to Sta. 503+80.

COMMON EXC.	~~7971~~	CU. YDS.	7757
ROCK EXC.	~~80~~	CU. YDS.	115
SUBGRADE EXC.	~~1512~~	CU. YDS.	2153
EMB.	5546	CU. YDS.	

COMMON EXC.	13870	Cu. YDS.
SUBGRADE EXC.	1190	CU. YDS.
EMB.	9768	CU.YDS.

+61

+80

06.0 07.0 08.2 10.1 12.1 12.9 14.1 15.6 16.3 15.5 15.4 15.0 14.8 14.5 14.3 13.9 10.4 09.9 10.5 12.6 15.1 18.8 23.4 29.3 29.6 26.8 23.6 22.1 24.8 24.9 23.9 23.1 22.2 21.4 21.3 20.6 19.8 19.2

+40 +47 +41 +73 +58 +60 +50 +61 +82

480 485 490 495 500 505

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