MINNESOTA DEPARTMENT OF TRANSPORTATION

THE COUNTY OF OLMSTED

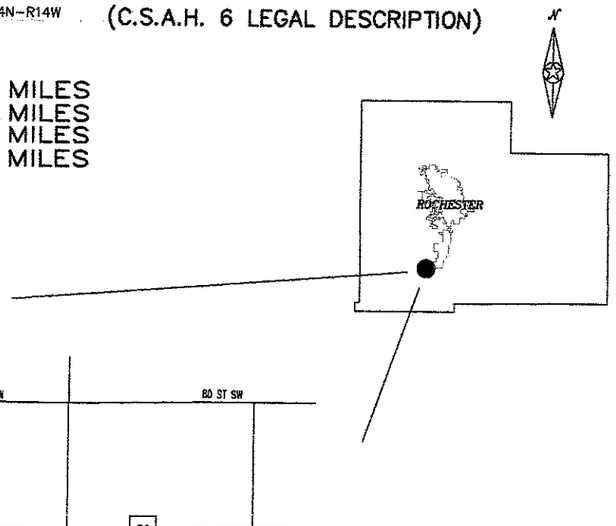
CONSTRUCTION PLAN FOR GRADING, AGG. BASE & BR. NO. 55J40, 55J41, 55J42, & 55J43

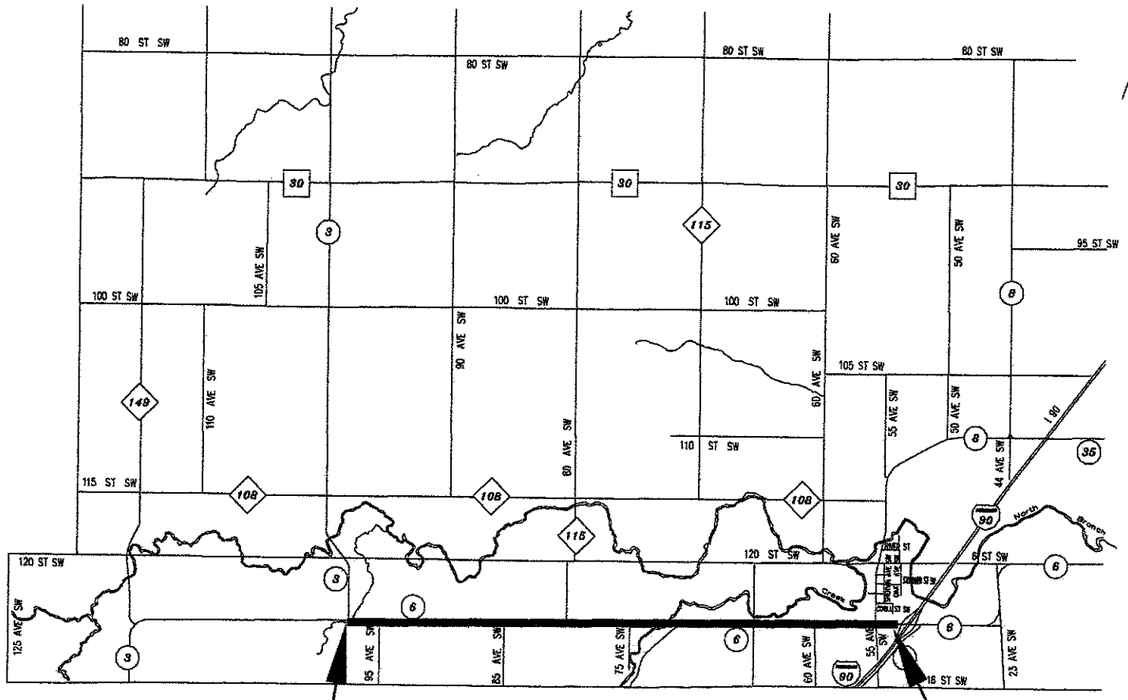
LOCATED ON C.S.A.H. 6 BETWEEN C.S.A.H. 6 & C.S.A.H. 3 (50' EAST OF JCT.) AND JCT. C.S.A.H. 6. & I 90 (APPROX. 400' WEST) (GEOGRAPHIC DESCRIPTION)

FROM 1418 FT WEST SECT. 3 & 4 T104N–R15W TO 1024' EAST SECT. 5 & 6 T104N–R14W (C.S.A.H. 6 LEGAL DESCRIPTION)

S.A.P. NO. 55–606–03

GROSS LENGTH	23,300.000	FEET	4.413	MILES
BRIDGE–LENGTH	0.000	FEET	0.000	MILES
EXCEPTIONS–LENGTH	0.000	FEET	0.000	MILES
NET LENGTH	23,300.000	FEET	4.413	MILES





BEGIN: 55–606–03
STA. 114+50

END: 55–606–03
STA. 347+50

PLAN 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
RIVER OR CREEK
DRY RUN
DRAINAGE DITCH
DRAIN TILE
CULVERT
DROP INLET
GUARD RAIL
BARBED WIRE FENCE
WOVEN WIRE FENCE
CHAIN LINK FENCE
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
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
SLOPE EASEMENT

UTILITIES SYMBOLS

POWER POLE LINE
TELEPHONE OR TELEGRAPH POLE LINE
JOINT TELEPHONE AND POWER ON POWER POLE
ON TELEPHONE POLES
ANCHOR
STEEL TOWER
STREET LIGHT
PEDESTAL (TELEPHONE CABLE TERMINAL)
GAS MAIN
WATER MAIN
CONDUIT
TELEPHONE CABLE IN CONDUIT
ELECTRICAL CABLE IN CONDUIT
TELEPHONE MANHOLE
ELECTRICAL MANHOLE
BURIED TELEPHONE CABLE
BURIED ELECTRICAL CABLE
AERIAL TELEPHONE CABLE
SEWER (SANITARY OR SEWER)
SEWER MANHOLE

EROSION CONTROL SYMBOLS

TEMPORARY SILT FENCE
RIP RAP DITCH CHECKS

SCALES

PLAN 0 100'
PROFILE 0 100' HORIZ. 0 10' 20' VERT
CROSS SECTIONS 0 10' 20' HORIZ. 0 5' 10' VERT

INDEX MAP: NOT TO SCALE

MINN. PROJ. NO.

GOVERNING SPECIFICATIONS

THE 2000 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

INDEX

SHEET NO. 1	TITLE SHEET
SHEET NO. 2 – 4	ESTIMATE OF QUANTITIES & TABLES
SHEET NO. 5 – 7	TYPICAL SECTIONS & DETAIL
SHEET NO. 8 – 25	PLAN & PROFILE (C.S.A.H. 6)
SHEET NO. 26	PLAN & PROFILE (ROBINSON CREEK RD.)
SHEET NO. 27	PLAN & PROFILE (C.S.A.H. 8)
SHEET NO. 28 – 36	EXIST. UTILITIES
SHEET NO. 37 – 41	EROSION CONTROL DETAILS
SHEET NO. 42 – 81	CROSS SECTIONS (C.S.A.H. 6)
SHEET NO. 82	CROSS SECTIONS (ROBINSON CREEK RD.)
SHEET NO. 83	CROSS SECTIONS (C.S.A.H. 8)
SHEET NO. 84 – 87	BRIDGE PLANS & DETAILS (BR. NO. 55J41)
SHEET NO. 88 – 91	BRIDGE PLANS & DETAILS (BR. NO. 55J40)
SHEET NO. 92 – 96	BRIDGE PLANS & DETAILS (BR. NO. 55J43)
SHEET NO. 97 – 101	BRIDGE PLANS & DETAILS (BR. NO. 55J42)
SHEET NO. 102 – 103	TRAFFIC CONTROL PLANS

THIS PLAN CONTAINS 103 SHEETS.

DESIGN DESIGNATION: RURAL

S.A.P. 55–606–03

R ΣN18 (20)

ADT (Current Year) = 452(2002) STA. 108+50 TO STA. 337+55
ADT (Future Year) = 725(2022) STA. 108+50 TO STA. 337+55
ADT (Current Year) = 1269(2002) STA. 337+55 TO STA. 347+50
ADT (Future Year) = 2030(2022) STA. 337+55 TO STA. 347+50

DHV (Design Hr. Vol.) = Design Speed 55 MPH
D (Directional Distr.) = Based on STOPPING Sight Distance
T (Heavy Commercial) = Height of eye 3.5 FT. Height of object 0.5 FT
SUBGRADE = K=150 Design Speed not achieved at:
SOIL FACTOR = 130% STA. 160+29 TO STA. 171+51 MPH. 50
STA. 334+14 TO STA. 344+28 MPH. 50
STA. 344+96 TO STA. 347+50 MPH. 40

LANE WIDTH 12 FT.
SHOULDER WIDTH 6 FT.
MAJOR COLLECTOR
10 TON DESIGN

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

DATE 11/12/02 LICENSE NUMBER 19917

PRINTED NAME: KAYE M. BIENIEK

SIGNATURE: Kaye M Bieniek

APPROVED: COUNTY DESIGN ENGINEER

DATE 11/13/02 LICENSE NUMBER 10397

Michael Sheehan

APPROVED: OLMSTED COUNTY ENGINEER

AS-BUILT

DESIGNED BY: ROSS

FEB 14 2005

ENGINEERING

STATE AID APPROVALS:

Steven Kuisle DATE: 12/6/02

DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY

Steven Kuisle DATE: 12/6/02

APPROVED FOR STATE AID FUNDING: STATE AID ENGINEER

REVISED 3/10/03

ESTIMATED QUANTITIES

	SPECIFICATION NO.	ITEM	UNIT	S.A.P. 55-606-03 NON PARTICIPATING RURAL	S.A.P. 55-606-03 PARTICIPATING RURAL	TOTAL ESTIMATED QUANTITIES
	2031.501	FIELD OFFICE, TYPE D	EACH		1	1
(1)	2101.511	CLEARING AND GRUBBING	LUMP SUM		1	1
(2)	2104.501	REMOVE PERFORATED PIPE	LIN. FT.		100	100
(3)	2104.501	REMOVE CONCRETE CULVERT	LIN. FT.		30	30
	2104.501	REMOVE METAL CULVERT	LIN. FT.		2,091	2,091
(4)	2104.501	REMOVE FENCE	LIN. FT.		14,840	14,840
(4)	2104.501	REMOVE WOOD FENCE	LIN. FT.		100	100
(5)	2104.501	REMOVE CONCRETE BOX CULV.	LIN. FT.		92	92
	2104.505	REMOVE BITUMINOUS PAVEMENT	SQ. YD.		64,363(P)	64,363(P)
	2104.513	SAW BITUMINOUS (FULL DEPTH)	LIN. FT.		120	120(P)
(6)	2105.515	UNCLASSIFIED EXCAVATION	CU. YDS.		119,569(P)	119,569(P)
(7)	2105.522	SELECT GRANULAR BORROW (CV)	CU. YDS.		15,531	15,531
(8)	2105.604	GEOTEXTILE FABRIC TYPE V	SQ. YDS.		13,520	~~13,520~~
(9)	2123.503	MOTOR GRADER	HOUR	16		16
(9)	2123.508	15 CU. YD. SCRAPER	HOUR	16		16
(9)	2123.509	DOZER	HOUR	16		16
(10)	2130.501	WATER	M-GAL.		188	188
(11)	2211.501	AGGREGATE BASE CL. 5	TON		54,998	54,998
	2412.511	10 x 4 PRECAST CONCRETE BOX CULVERT	LIN. FT.		78	78
	2412.511	10 x 7 PRECAST CONCRETE BOX CULVERT	LIN. FT.		116	116
	2412.511	12 x 6 PRECAST CONCRETE BOX CULVERT	LIN. FT.		76	76
	2412.511	12 x 10 PRECAST CONCRETE BOX CULVERT	LIN. FT.		~~232~~	~~232~~ 256
	2412.512	10 x 4 P.C. CONCRETE BOX CULVERT END SECTION	EACH		2	2
	2412.512	10 x 7 P.C. CONCRETE BOX CULVERT END SECTION	EACH		2	2
	2412.512	12 x 6 P.C. CONCRETE BOX CULVERT END SECTION	EACH		2	2
	2412.512	12 x 10 P.C. CONCRETE BOX CULVERT END SECTION	EACH		6	6
(12)	2442.501	REMOVE OLD BRIDGE	EACH		2	2
(13)	2451.507	GRANULAR BEDDING (CV)	CU. YDS.		630	630
	2501.511	18" C.S. PIPE CULVERT	LIN. FT.		1,312	1,312
	2501.511	24" C.S. PIPE CULVERT	LIN. FT.		408	408
	2501.511	30" C.S. PIPE CULVERT	LIN. FT.		40	40
	2501.511	36" C.S. PIPE CULVERT	LIN. FT.		36	36
	2501.511	18" R.C. PIPE CULVERT	LIN. FT.		120	120
	2501.511	24" R.C. PIPE CULVERT	LIN. FT.		142	142
	2501.511	30" R.C. PIPE CULVERT	LIN. FT.		410	410
	2501.511	42" R.C. PIPE CULVERT	LIN. FT.		146	146
	2501.511	48" R.C. PIPE CULVERT	LIN. FT.		226	226
	2501.515	18" G.S. PIPE APRON	EACH		62	62
	2501.515	24" G.S. PIPE APRON	EACH		22	22
	2501.515	30" G.S. PIPE APRON	EACH		2	2
	2501.515	36" G.S. PIPE APRON	EACH		2	2
	2501.515	18" R.C. PIPE APRON	EACH		4	4
	2501.515	24" R.C. PIPE APRON	EACH		6	6
	2501.515	30" R.C. PIPE APRON	EACH		12	12
	2501.515	42" R.C. PIPE APRON	EACH		4	4
	2501.515	48" R.C. PIPE APRON	EACH		6	6
	2501.521	36" SPAN R.C. PIPE-ARCH CULVERT	LIN. FT.		70	70
	2501.525	36" SPAN R.C. PIPE-ARCH APRON	EACH		2	2
(14)	2502.521	10" C.M. PIPE DRAIN	LIN. FT.		650	650
(15)	2502.541	8" PERF PE PIPE DRAIN	LIN. FT.		100	100
(15)	2502.541	10" PERF PE PIPE DRAIN	LIN. FT.		200	200
	2563.601	TRAFFIC CONTROL	LUMP SUM		1	1
	2511.501	RIPRAP CL. III	CU. YDS.		91	91
	2511.501	RIPRAP CL. IV	CU. YDS.		734	734
(16)	2573.502	SILT FENCE, TYPE MACHINE SLICED	LIN. FT.		4,230	4,230
	2575.501	SEEDING	ACRE		42(P)	42(P)
	2575.502	SEED MIXTURE 50B	POUND		2,100	2,100
	2575.502	SEED MIXTURE 110B	POUND		4,200	4,200
(17)	2575.505	SODDING TYPE LAWN	SQ. YD.		33,822	33,822
	2575.511	MULCH MATERIAL TYPE 1	TON		81	81
	2575.519	DISK ANCHORING	ACRE		40.5	40.5
	2575.523	WOOD FIBER BLANKET TYPE REGULAR	SQ. YD.		6,435	6,435
	2575.531	COMMERCIAL FERTILIZER ANALYSIS 10-10-10	TON		4.2	4.2

(P) PLAN QUANITY

QUANTITY NOTES

① SEE TABULATION SHEET 4

② FOR THE REMOVAL OF ANY DRAIN TILE THAT IS REQUIRED, IN THE FIELD BY THE ENGINEER, THE DRAIN TILE OUTLETS LOCATED AT RT. STA. 116+35, RT. STA. 264+61 & LT. STA. 264+44.

③ REMOVAL OF HEADWALLS ARE TO BE INCIDENTAL TO PIPE REMOVAL

④ SPEC. NO. 1903 DOES NOT APPLY TO ITEM NO. 2104.501 REMOVE FENCE & REMOVE WOOD FENCE.

⑤ LOCATION: STA. 264+39 AND STA. 293+63. REMOVAL OF ANY WING WALLS SHALL BE INCIDENTAL.

⑥ C.S.A.H. 6; FROM STA. 108+50 TO STA. 347+50 116,780 CU. YDS.
ROBINSON CREEK RD.; FROM STA. 13+00 TO STA. 15+74.50 1,018 CU. YDS.
C.S.A.H. 8; FROM STA. 1000+25.5 TO STA. 1003+00 1,771 CU. YDS.
THESE TOTALS INCLUDE 10,800 CU. YDS. TO BE SALVAGED AND USED AS TOPSOIL.
EXCESS MATERIAL WILL BE CONSIDERED THE PROPERTY OF OLMSTED COUNTY AND WILL BE USED ON, BACK SLOPES GRADE CHANGES OR STOCKPILED, AS DESIGNATED BY THE ENGINEER AND WILL BE CONSIDERED INCIDENTAL TO 2105.515 UNCLASSIFIED EXC.

⑦ STA. ~~116+50 TO STA. 130+50~~ AND STA. ~~287+50 TO STA. 301+50~~ OR AS DESIGNATED BY THE ENGINEER. SPEC 1903 DOES NOT APPLY TO ITEM 2501.522. STA 125+00 to 162+00

⑧ ~~GEOTEXTILE FABRIC TO BE USED AS SUBGRADE STABILIZER PLACED BETWEEN THE NATIVE SOIL AND SELECT GRANULAR BORROW FROM STA. 117+00 TO STA. 130+00 AND FROM STA. 288+00 TO STA. 301+00, OR AS DESIGNATED BY THE ENGINEER. SPEC 1903 DOES NOT APPLY TO ITEM 2501.609.~~ Item not used

⑨ USED FOR DITCH SHAPING FOR DRAINAGE, AS DIRECTED BY THE ENGINEER.

⑩ WATER TO BE USED AS A DUST PREVENTATIVE AS DIRECTED BY THE ENGINEER.

⑪ MAINLINE C.S.A.H. 6 & RIGHT TURN LANES 48,855 TONS
C.S.A.H. 6 APPROACHES AND ENTRANCES 5,007 TONS
ROBINSON CREEK RD. MAINLINE, APPROACHES AND ENTRANCES 386 TONS
C.S.A.H. 8, MAINLINE 750 TONS

⑫ BRIDGE LOCATIONS: STA. 116+49 AND STA. 249+20.5

⑬ BEDDING FOR ALL PIPES SHOWN ON DETAIL SHEET 6. ALL OTHER CENTERLINE PIPE CULVERT ARE PLACED ON CL. "B" BEDDING AND IT IS INCIDENTAL TO THE PIPE.

⑭ APPROX. STA. 153+75, STA. 175+80, STA. 264+44, STA. 279+00, AND STA. 293+60 TILE CROSSING TO BE LOCATED IN THE FIELD BY THE ENGINEER. INSPECTION TEES TO BE INSTALLED ON BOTH ENDS OF CROSSING. INSPECTION TEES ARE TO BE CONNECTED TO EXISTING OR RELOCATED INLETS AND OUTLETS OR PLUGGED IF NO TILE IS PRESENT. INSPECTION TEES, PLUGS AND CONNECTION IS INCIDENTAL TO ITEM NO. 2502.521. SPEC NO. 1903 DOES NOT APPLY TO ITEM NO. 2502.521

⑮ FOR THE RELOCATION OF DRAIN TILE OUTLETS IN THE FIELD BY THE ENGINEER. THE APPROX. EXISTING LOCATIONS ARE RT. STA. 116+35, RT. STA. 264+61, LT. STA. 264+44, AND RT. 279+00 SPEC. NO. 1903 DOES NOT APPLY TO THIS ITEM.

⑯ TO BE PLACED AS DIRECTED BY THE ENGINEER, SILT FENCE TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION. SPEC. NO. 1903 DOES NOT APPLY TO ITEM NO. 2573.502

⑰ SPEC. NO. 1903 DOES NOT APPLY TO ITEM NO. 2575.505 SODDING.

BASIS OF PLANNED QUANTITIES

APPROX. COMPACTION FACTOR	32%
AGGREGATE BASE CLASS 5 -	140 LBS / CU. FT. COMPACTED
SEED MIXTURE 50B -	50 LBS / ACRE
SEED MIXTURE 110B-	100 LBS / ACRE
MULCH MATERIAL -	2 TONS / ACRE
DISC ANCHOR -	ALL SEEDING AREA'S, EXCLUDING 2:1 SLOPES
COMMERCIAL FERTILIZER -	200 LBS / ACRE

NOTE: ALL UTILITY POLES AND UNYIELDING OBJECTS WILL BE RELOCATED OUTSIDE THE REQUIRED RECOVERY AREA.

STANDARD PLATES

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT.

PLATE NO.	DESCRIPTION
	NUMERICAL INDEX OF STANDARD PLATES
3000L	REINFORCED CONCRETE PIPE
3006G	GASKET JOINT FOR R.C. PIPE
3007C	SHEAR REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES
3014J	REINFORCED CONCRETE PIPE ARCH
3040F	CORRUGATED METAL PIPE CULVERT
3100G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3110G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE-ARCH
3123J	METAL APRON FOR C.S. PIPE
3124B	METAL APRON CONNECTION
3133C	RIPRAP AT R.C.P. OUTLETS
3145E	CONCRETE PIPE TIES
3143C	INSPECTION TEES
3221C	CORRUGATED STEEL PIPE COUPLING BAND
8000I	STANDARD BARRICADES
*9000D	APPROACHES AND ENTRANCES
9102D	TURF ESTABLISHMENT AREAS

*NOTE: ALL BACKSLOPES ON APPROACHES AND ENTRANCES ARE 1:4 SLOPES.

AS-BUILT

FEB 14 2005

ENGINEERING

ESTIMATED QUALITIES

CULVERTS
FURNISH & INSTALL

LOCATION (STA.)	18" C.S.P. LIN. FT.	24" C.S.P. LIN. FT.	30" C.S.P. LIN. FT.	36" C.S.P. LIN. FT.	18" R.C.P. LIN. FT.	24" R.C.P. LIN. FT.	30" R.C.P. LIN. FT.	42" R.C.P. LIN. FT.	48" R.C.P. LIN. FT.	36" SPAN R.C.P. LIN. FT.	18" G.S. APRON EACH	24" G.S. APRON EACH	30" G.S. APRON EACH	36" G.S. APRON EACH	18" R.C. APRON EACH	24" R.C. APRON EACH	30" R.C. APRON EACH	42" R.C. APRON EACH	48" R.C. APRON EACH	36" SPAN R.C. APRON EACH	REMARKS
RT. 123+35																					NO CULV. REQ'D
LT. 123+65																					MOVE LT. STA. 123+35, NO CULV. REQ'D
RT. 124+50																					REMOVE ENT.
C/L 125+58									78										2		MOVE STA. 125+10, *SEE NOTE
LT. 127+18		~~30~~ 50'										2									
RT. 127+18						48										2					
LT. 137+70	48										2										
RT. 138+14	42										2										
LT. 140+00																					NO CULV. REQ'D
RT. 140+17																					NO CULV. REQ'D
RT. 147+81	46										2										
RT. 149+97		40										2									
LT. 150+04		28										2									
C/L 153+71									72										2		SKEW 5° *SEE NOTE
LT. 167+05	36										2										MOVE LT. STA. 167+~~80~~ 80
RT. 167+80	62										2										
C/L 175+79							80										2				*SEE NOTE
RT. 179+98						50										2					
~~RT. 186+19~~	~~44~~										~~2~~										*Eliminated*
RT. 189+83		30										2									MOVE RT. STA. 189+95
LT. 189+98																					MOVE LT. STA. 189+95, NO CULV. REQ'D
C/L 197+15								72										2			*SEE NOTE
LT. 198+78	38										2										*Moved to STA 200+70 Lt.*
RT. 200+07	34										2										
RT. 203+73																					NO CULV. REQ'D
LT. 206+39					52										2						
RT. 207+03	44										2										
C/L 209+67							78										2				*SEE NOTE
LT. 215+80																					MOVE LT. STA. 215+60, NO CULV. REQ'D
LT. 217+56	42										2										
LT. 219+05																					REMOVE
RT. 221+70	36										2										
C/L 222+90										70										2	*SEE NOTE
LT. 223+38	48										2										
LT. 226+78																					MOVE LT. STA. 226+83, NO CULV. REQ'D
C/L 229+00					~~65~~ 60										2						
LT. 230+10																					NO CULV. REQ'D
RT. 233+12						44										2					
LT. 234+17		40										2									
LT. 238+65		40										2									
RT. 238+65		38										2									
RT. 245+85																					REMOVE
LT. 246+07			40										2								
C/L 247+14																					NO CULV. REQ'D,
LT. 247+60				36										2							
RT. 251+72							54										2				MOVE TO RT. STA. 250+50
LT. 252+94		46										2									
RT. 261+60																					NO CULV. REQ'D
RT. 263+05	42										2										
LT. 263+39	56										2										MOVE TO LT. STA. 263+05
LT. 269+23	48										2										
RT. 272+43																					NO CULV. REQ'D
LT. 273+66	38										2										
RT. 277+39	~~34~~ 38										2										
C/L 279+11							72										2				MOVE TO RT. STA. 270+05, *SEE NOTE
LT. 281+87	34										2										
LT. 286+03																					NO CULV. REQ'D
RT. 290+12	~~48~~ 54										2										
RT. 296+83	38										2										
RT. 298+29																					NO CULV. REQ'D
LT. 299+00																					MOVE LT. STA. 298+29, NO CULV. REQ'D
C/L 299+78.5							80										2				*SEE NOTE
RT. 301+62	36										2										
LT. 301+62	50										2										
LT. 308+50	36										2										
RT. 311+52							46										2				*Moved to STA 304+76 Lt.*
LT. 317+77		44										2									MOVE LT. STA. 317+00
C/L 318+09.6									76										2		MOVE LT. STA. 318+00, *SEE NOTE
RT. 322+75		44										2									
LT. 325+43	48										2										
C/L 329+52.5								74										2			MOVE LT. STA. 329+15, *SEE NOTE
LT. 331+50	40										2										
LT. 332+92	40										2										
RT. 335+65	40										2										
RT. 337+52																					REMOVE
LT. 337+56.7																					NO CULV. REQ'D
LT. 339+57	38										2										
RT. 340+35	50										2										
LT. 345+15	40										2										
RT. 345+75		28										2									
RT. 13+94	44										2										
TOTAL	1,312	408	40	36	120	142	410	146	226	70	62	22	2	2	4	6	12	4	6	2	

* NOTE: PLACE PIPE ON CL. "B" BEDDING AND SHALL BE INCIDENTAL TO PIPE.

CULVERT REMOVAL

LOCATION (STA.)	SIZE	C.M.P. LIN. FT.	R.C.P. LIN. FT.	CONC. BOX LIN. FT.
C/L 125+58	48"	62		
LT. 127+18	18"	40		
RT. 127+18	18"	30		
RT. 138+14	15"	28		
LT. 140+00	15"	30		
RT. 140+17	15"	24		
RT. 147+81	15"	24		
RT. 149+97	15"	24		
LT. 150+04	15"	30		
C/L. 153+71	36"	54		
C/L 154+20	24"	46		
RT. 167+80	15"	24		
C/L 175+79	30"	63		
RT. 179+98	15"	30		
RT. 186+19	18"	30		
RT. 189+83	15"	24		
C/L 197+15	30"	40		
LT. 198+78	15"	24		
RT. 200+07	18"	32		
LT. 206+39	15"	26		
RT. 207+03	15"	30		
C/L 209+67	24"	40		
LT. 215+80	15"	32		
LT. 217+56	15"	24		
LT. 219+05	15"	28		
RT. 221+70	15"	28		
C/L 222+90	24"	32		
LT. 223+38	18"	32		
LT. 226+78	18"	32		
LT. 230+10	15"	32		
RT. 233+12	15"	40		
LT. 234+17	18"	28		
LT. 238+65	15"	26		
RT. 238+65	15"	24		
RT. 245+85	15"	24		
LT. 246+07	24"	40		
C/L 247+14	72"		30	
RT. 251+72	15"	62		
LT. 252+94	18"	24		
RT. 261+60	15"	32		
C/L 264+39	4'x6'			30
LT. 269+23	15"	30		
LT. 273+66	15"	24		
RT. 277+39	18"	28		
C/L 279+11	30"	44		
LT. 281+87	15"	28		
RT. 290+12	15"	32		
C/L 293+63	6'x8'			62
RT. 296+83	15"	24		
C/L 299+78.5	30"	56		
RT. 301+62	15"	24		
LT. 301+62	15"	28		
LT. 308+50	15"	28		
RT. 311+52	30"	42		
LT. 317+77	15"	24		
C/L 318+09.6	42"	56		
RT. 322+75	18"	36		
LT. 325+43	18"	32		
C/L 329+52.5	36"	48		
LT. 331+50	18"	32		
LT. 332+92	18"	32		
RT. 335+65	18"	24		
LT. 339+57	15"	24		
RT. 340+35	18"	36		
LT. 345+15	18"	28		
RT. 345+75	24"	36		
TOTAL		2,091	30	92

AS BUILT

FEB 14 2005

ENGINEERING TABULATION

CERTIFIED BY Kaye M Bienick PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002

S.A.P. 55-606-03

SHEET 3 OF 103 SHEETS

CLEAR & GRUB

LOCATION	TREES	ACRES
LT. & RT. STA. 116+00 TO STA. 116+50	2	.02
RT. STA. 122+00 TO STA. 125+00	3	.10
LT. STA. 136+00 TO STA. 139+20	35	
RT. STA. 138+25 TO STA. 140+05	1	.01
RT. STA. 145+80		.02
LT. STA. 155+00	1	
RT. STA. 165+30 TO STA. 168+05	2	.06
LT. STA. 194+30	1	
LT. & RT STA. 200+70 TO STA. 205+75	43	.01
LT. & RT. STA. 205+50 TO STA. 207+80	3	.01
LT. STA. 213+50 TO STA. 217+50	3	.01
LT. STA. 223+80 TO STA. 230+90	13	.15
RT. STA. 229+20	1	
LT. STA. 233+30	1	
RT. STA. 236+50 TO STA. 238+25		.01
RT. STA. 246+39 TO STA. 247+00		.03
LT. STA. 248+75	1	
LT. & RT. STA. 259+30 TO STA. 262+80	33	.01
LT. STA. 263+80 TO STA. 264+60	5	
LT. & RT. STA. 272+60 TO STA. 274+40		.07
LT. STA. 278+00 TO STA. 281+05	40	
LT. STA. 283+30 TO STA. 287+80	33	
LT. & RT. STA. 291+70 TO STA. 299+00	8	.07
LT. STA. 300+60 TO STA. 303+70	22	
RT. STA. 316+10 TO STA. 317+70		.01
LT. & RT. STA. 317+90 TO STA. 325+40	5	.29
LT. STA. 325+50 TO STA. 333+25	18	.21
RT. STA. 329+70 TO STA. 331+50		.06
RT. STA. 334+10 TO STA. 337+30	10	.03
LT. STA. 335+75 TO STA. 336+10	2	
LT. STA. 339+60 TO STA. 340+30	4	
TOTAL	295	1.18

NOTES: QUANTITY AND LOCATIONS ARE APPROX. & SHALL BE DESIGNATED IN THE FEILD BY THE ENGINEER.

SAW BITUMINOUS

LOCATION	LIN. FT.
STA. 114+50	24
LT. STA. 223+38	18
LT. STA. 246+07	18
STA. 347+50	24
STA. 1003+00 (CSAH 8)	36
TOTAL	120

RIPRAP

LOCATION	CL. III CU. YDS.	CL. IV CU. YDS.
STA. 116+49		103
STA. 125+58	20	
STA. 153+71	20	
STA. 197+15	14	
STA. 249+25		450
STA. 264+43		98
STA. 293+53		83
STA. 318+09.06	20	
STA. 329+15	17	
TOTAL	91	734

NOTES: STD. PLATE 3133C IS USED RIPRAP CLASS III & QUANITY IS ROUNDED UP TO NEAREST CU.YD.

SODDING

LOCATION	SQ. YDS.
RT. STA. 122+00 TO STA. 125+00	1,483
LT. STA. 135+80 TO STA. 141+00	1,596
RT. STA. 138+15 TO STA. 140+56	850
RT. STA. 146+00 TO STA. 150+25	1,752
RT. STA. 166+80 TO STA. 168+05	1,018
RT. STA. 200+10 TO STA. 205+00	1,502
RT. STA. 206+40 TO STA. 207+80	613
LT. STA. 213+40 TO STA. 219+80	2,644
LT. STA. 221+60 TO STA. 224+00	863
LT. STA. 226+00 TO STA. 230+90	1,878
RT. STA. 236+40 TO STA. 240+75	1,624
LT. STA. 245+75 TO STA. 248+75	1,317
RT. STA. 259+50 TO STA. 264+25	1,314
LT. STA. 267+00 TO STA. 270+00	1,150
LT. STA. 283+00 TO STA. 288+65	1,703
RT. STA. 294+75 TO STA. 299+00	1,610
LT. STA. 300+60 TO STA. 303+00	1,175
RT. STA. 322+00 TO STA. 324+00	767
LT. STA. 324+50 TO STA. 326+00	1,391
LT. STA. 330+75 TO STA. 337+30	2,587
RT. STA. 334+00 TO STA. 338+00	1,878
LT. STA. 337+75 TO STA. 340+30	939
LT. STA. 344+00 TO STA. 345+45	1,289
* RT. STA. 13+00 TO STA. 15+70 (ROBINSON CREEK RD.)	739
LT. STA. 1000+50 TO STA. 1002+00 (C.S.A.H. 8)	140
TOTAL	33,822

* NOTES: ONLY SOD 33' EXISTING R/W NOT THE OLD ROADWAY.

FENCE REMOVAL

LOCATION	LIN. FT.	WOOD LIN. FT.
RT. STA. 109+50 TO STA. 114+00	450	
LT. STA. 116+70 TO STA. 127+00	1,030	
RT. STA. 121+90 TO STA. 123+10	120	
RT. STA. 124+80 TO STA. 126+50	170	
LT. STA. 127+40 TO STA. 135+55	815	
RT. STA. 153+65 TO STA. 167+75	1,410	
RT. STA. 168+10 TO STA. 179+70	1,160	
LT. STA. 185+60 TO STA. 189+80	420	
LT. STA. 190+15 TO STA. 206+00	1,585	
LT. STA. 206+75 TO STA. 213+50	675	
RT. STA. 216+00 TO STA. 232+80	1,680	
LT. STA. 219+78 TO STA. 226+60	682	
LT. STA. 227+00 TO STA. 228+60	160	
LT. STA. 230+25 TO STA. 233+25	300	
LT. STA. 237+15 TO STA. 238+35	120	
LT. STA. 238+90 TO STA. 245+80	690	
RT. STA. 240+70 TO STA. 246+40	570	
LT. STA. 249+95 TO STA. 252+90	295	
RT. STA. 251+00	20	
LT. STA. 259+60 TO STA. 261+45	185	
RT. STA. 264+20 TO STA. 265+10	90	
LT. STA. 288+65 TO STA. 298+80	1,015	
RT. STA. 290+17 TO STA. 294+25	408	
RT. STA. 322+20 TO STA. 322+40	20	
RT. STA. 323+00 TO STA. 323+20	20	
LT. STA. 338+00 TO STA. 344+00	600	
LT. STA. 344+00 TO STA. 345+00		100
LT. STA. 13+00 TO STA. 14+50	150	
TOTAL	14,840	100

SILT FENCE

LOCATION	LIN. FT.
LT. & RT. STA. 116+49 TO (℄ PIPE)	150
LT. & RT. STA. 125+10 (℄ PIPE)	220
LT. & RT. STA. 153+71 (℄ PIPE)	640
LT. STA. 164+00 TO STA. 167+00	300
RT. STA. 165+00 TO STA. 167+50	250
LT. & RT. STA. 175+79 (℄ PIPE)	300
RT. STA. 182+50 TO 183+50	100
LT. & RT. STA. 197+15 (℄ PIPE)	200
LT. & RT. STA. 209+67 (℄ PIPE)	200
LT. & RT. STA. 223+00 (℄ PIPE)	200
LT. & RT. STA. 249+20.5 (℄ PIPE)	420
LT. & RT. STA. 264+39.2 (℄ PIPE)	300
LT. & RT. STA. 279+11 (℄ PIPE)	200
LT. & RT. STA. 293+63 (℄ PIPE)	350
LT. & RT. STA. 318+00 (℄ PIPE)	200
LT. & RT. STA. 329+15 (℄ PIPE)	200
TOTAL	4,230

WOOD FIBER BLANKET

LOCATION	SQ. YDS.
LT. STA. 125+00 TO STA. 125+50	111
RT. STA. 153+75 TO STA. 156+50	428
RT. STA. 164+50 TO STA. 166+50	644
LT. STA. 165+50 TO STA. 167+70	1076
RT. STA. 175+40 TO STA. 176+25	208
RT. STA. 175+40 TO STA. 176+25	151
LT. STA. 209+25 TO STA. 209+80	134
RT. STA. 248+50 TO STA. 251+00	694
LT. STA. 248+50 TO STA. 251+00	694
LT. STA. 290+50 TO STA. 293+80	1.540
RT. STA. 292+50 TO STA. 293+80	722
LT. STA. 299+00 TO STA. 300+00	33
TOTAL	6,435

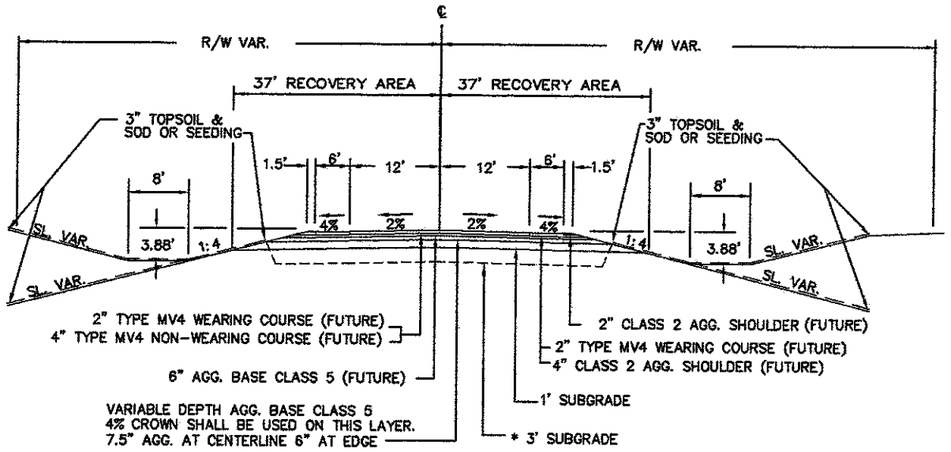
NOTE: ALL WOOD FIBER BLANKET IS REGULAR VELOCITY: PLACE ON BACKSLOPE ONLY.

AS-BUILT

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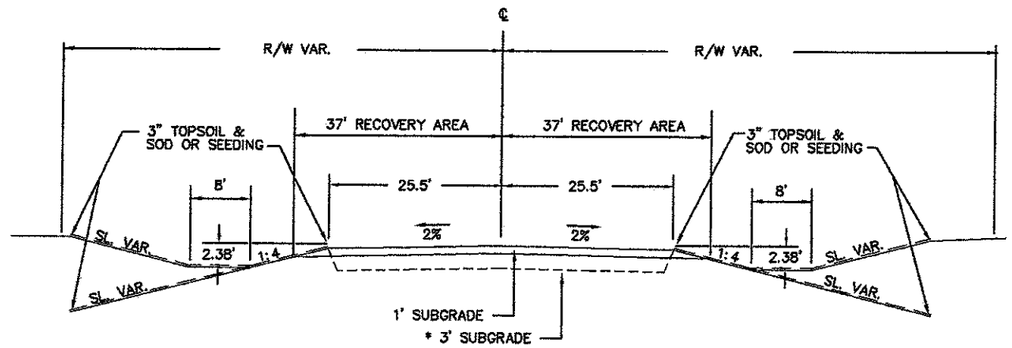
ENGINEERING TABULATION

CERTIFIED BY Lance M Bienick PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002



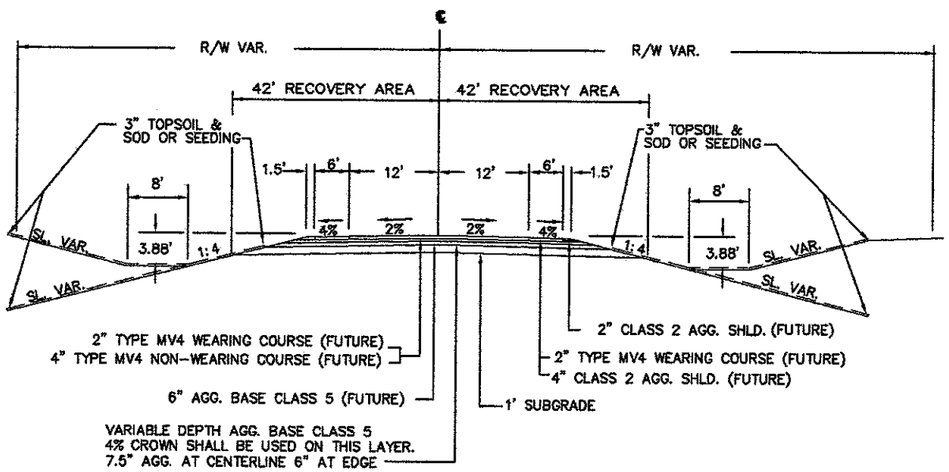
STA. 114+50 TO STA. 337+55

~~* START AT STA. 116+50 TAPER SUBGRADE FROM 1' TO 3' SUBGRADE AT STA. 117+00~~
~~* START AT STA. 130+00 TAPER SUBGRADE FROM 3' TO 1' SUBGRADE AT STA. 130+50~~
~~* START AT STA. 287+50 TAPER SUBGRADE FROM 1' TO 3' SUBGRADE AT STA. 288+00~~
~~* START AT STA. 301+00 TAPER SUBGRADE FROM 3' TO 1' SUBGRADE AT STA. 301+50~~

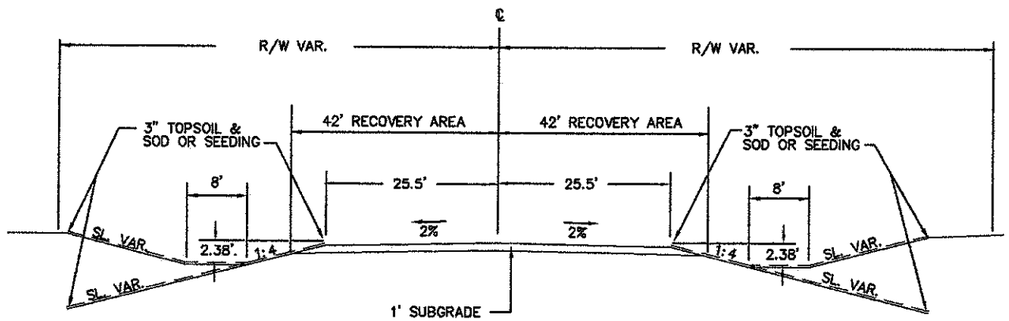


STA. 114+50 TO STA. 337+55

~~* START AT STA. 116+50 TAPER SUBGRADE FROM 1' TO 3' SUBGRADE AT STA. 117+00~~
~~* START AT STA. 130+00 TAPER SUBGRADE FROM 3' TO 1' SUBGRADE AT STA. 130+50~~
~~* START AT STA. 287+50 TAPER SUBGRADE FROM 1' TO 3' SUBGRADE AT STA. 288+00~~
~~* START AT STA. 301+00 TAPER SUBGRADE FROM 3' TO 1' SUBGRADE AT STA. 301+50~~



STA. 337+55 TO STA. 347+50
STA. 1000+25.5 TO STA. 1003+00 (C.S.A.H. 8)



STA. 337+55 TO STA. 347+50
STA. 1000+25.5 TO STA. 1003+00 (C.S.A.H. 8)

AS-BUILT

FEB 14 2005

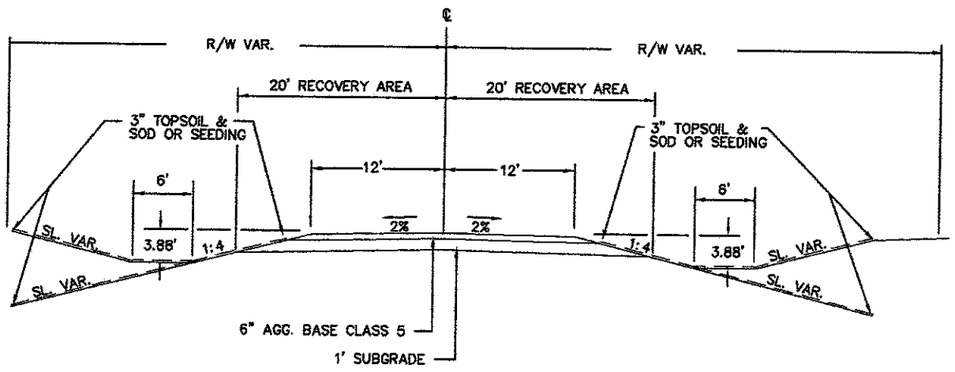
ENGINEERING

TYPICAL SECTIONS

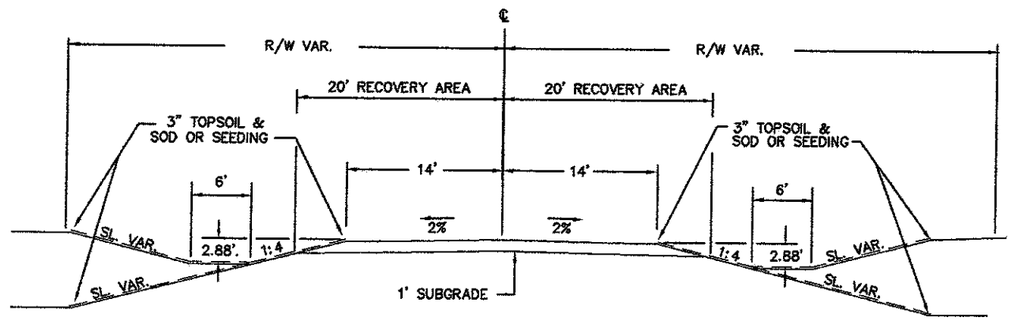
CERTIFIED BY Kevin M Kiernich PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002

SAP 55-606-03

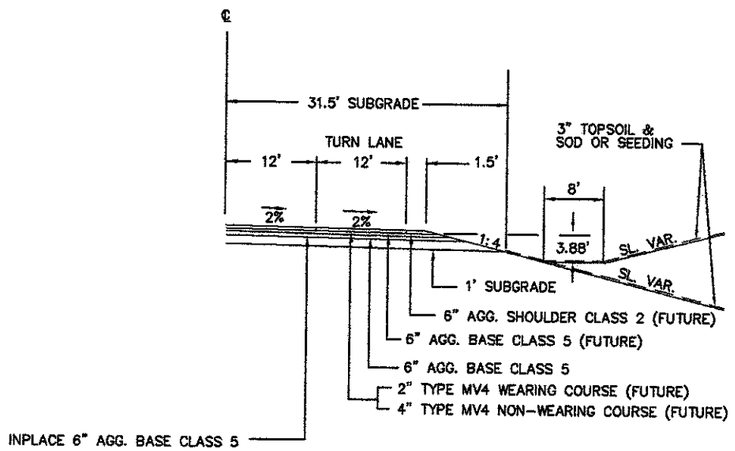
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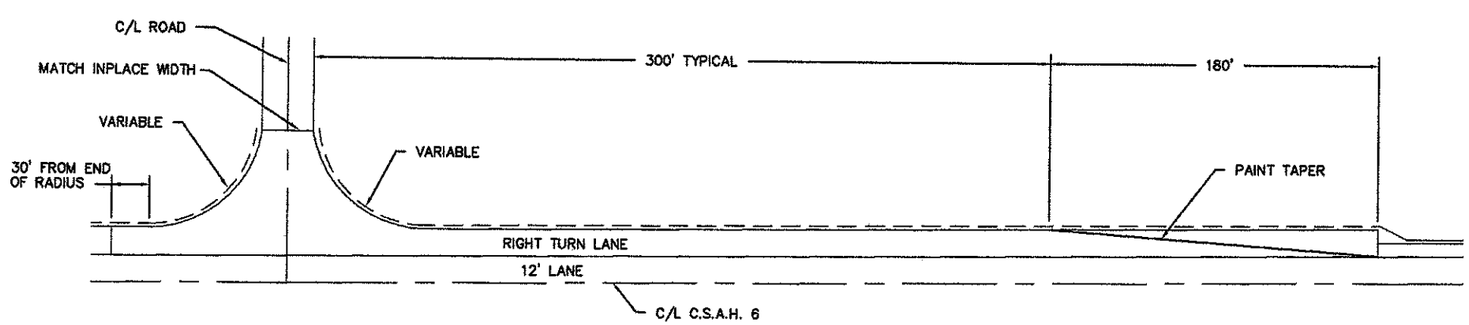


STA. 13+00 TO STA. 15+74.5
ROBINSON CREEK ROAD



STA. 13+00 TO STA. 15+74.5
ROBINSON CREEK ROAD





RIGHT TURN LANE TYPICAL

STA. 114+50 TO STA. 118+92
STA. 206+51TO STA. 211+31
STA. 337+67 TO STA. 342+47

AS-BUILT

FEB 14 2005

ENGINEERING

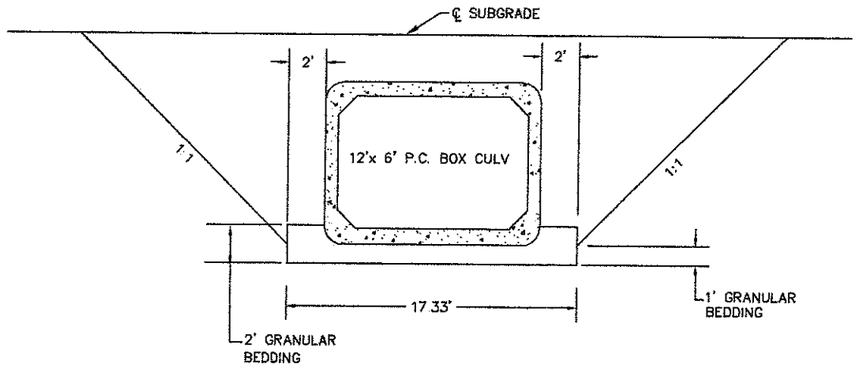
TYPICAL SECTIONS

CERTIFIED BY Gary M Rosenick PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002

SAP 55-606-03

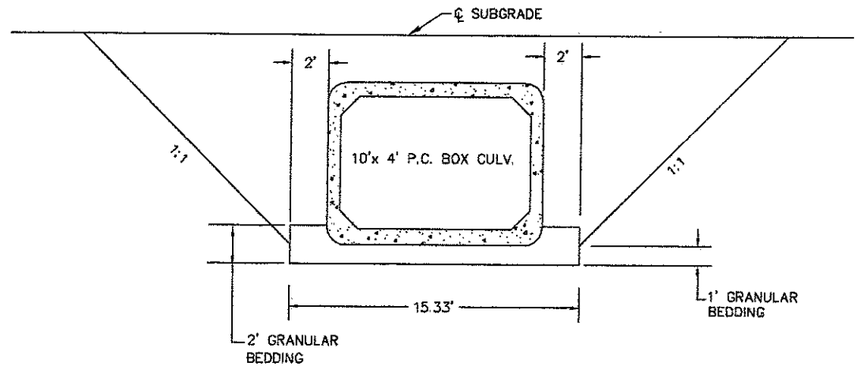
BEDDING DETAIL BR. 55J41

STA. 116+49



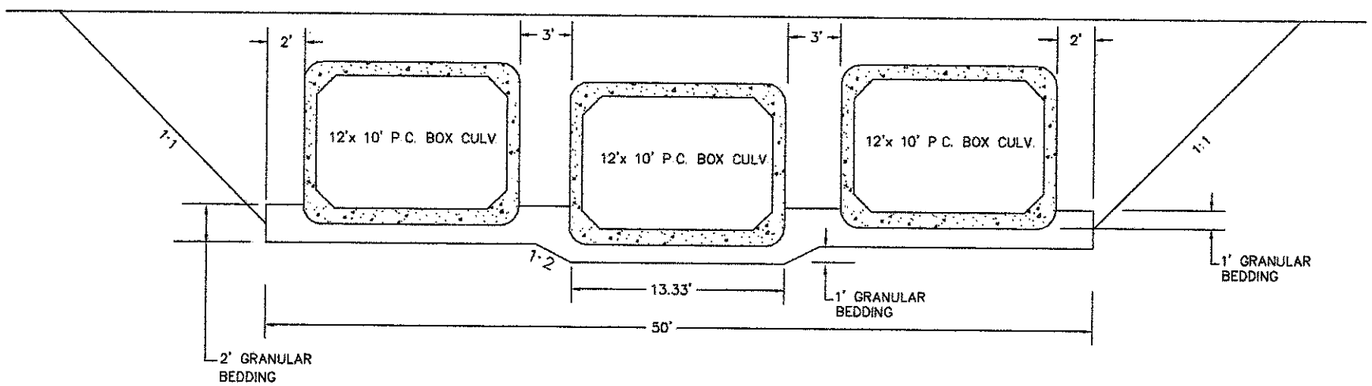
BEDDING DETAIL BR. 55J43

STA. 264+39



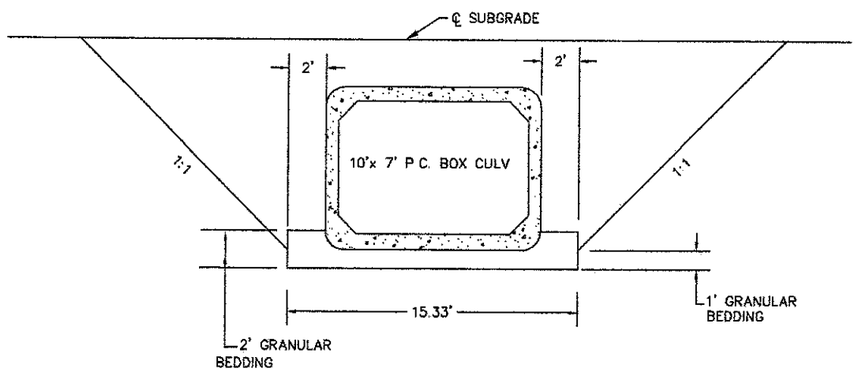
BEDDING DETAIL BR. 55J40

STA. 249+08.67 STA. 249+25 STA. 249+41.33



BEDDING DETAIL BR. 55J42

STA. 293+63



AS-BUILT

FEB 14 2005

ENGINEERING

CULVERT DETAILS

CERTIFIED BY Kaye M Bienieh PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002

S.A.P. 55-606-03

SHEET 7 OF 103 SHEETS

C.S.A.H. 3 LT. STA. 114+00
NO CULV. INPL.
NO CHANGE

C.S.A.H. 3

50' R/W
50' R/W

33' R/W

BEGIN S.A.P. 55-606-03 STA. 114+50

60' R/W

100' R/W

+00
+30
36'

SILT FENCE

+85
+10
30'

60' R/W

BR. NO. 88717 STA. 116+49
INPL., 10' x 6' x 50' CONC. SPAN
WITH WINGWALLS
BRIDGE NO. 55J41
SEE BRIDGE SHEET NO. 84-87

+92
+14

60' R/W

10'T.E.

108+00 109+00 110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00

33' R/W

SILT FENCE

SILT FENCE

+90
+15

+70
+85
+00

DRAIN TILE

80' R/W

10'T.E.

60' R/W

EXIST 10" TILE OUTLET
58' RT STA. 116+35
ELEV 1272.94

RELOCATE 10" OUTLET IN FIELD

DESIGN SUBGRADE

1279.65 1279.49 1279.60 1279.86 1280.27 1280.82 1281.52 1282.37 1284.36 1286.36 1288.36 1290.32

BEGIN GRADING STA. 114+50
EL. 1279.65

P.I. STA. 115+00.21
EL. 1276.36
V.C. 650.00
E = 3.13

INLET EL. 1271.80
OUTLET EL. 1271.10

P.V.T. STA. 118+25.21
EL. 1282.86

2.0%

P.V.C. STA. 121+65
EL. 1289.66

ORIGINAL GRADE

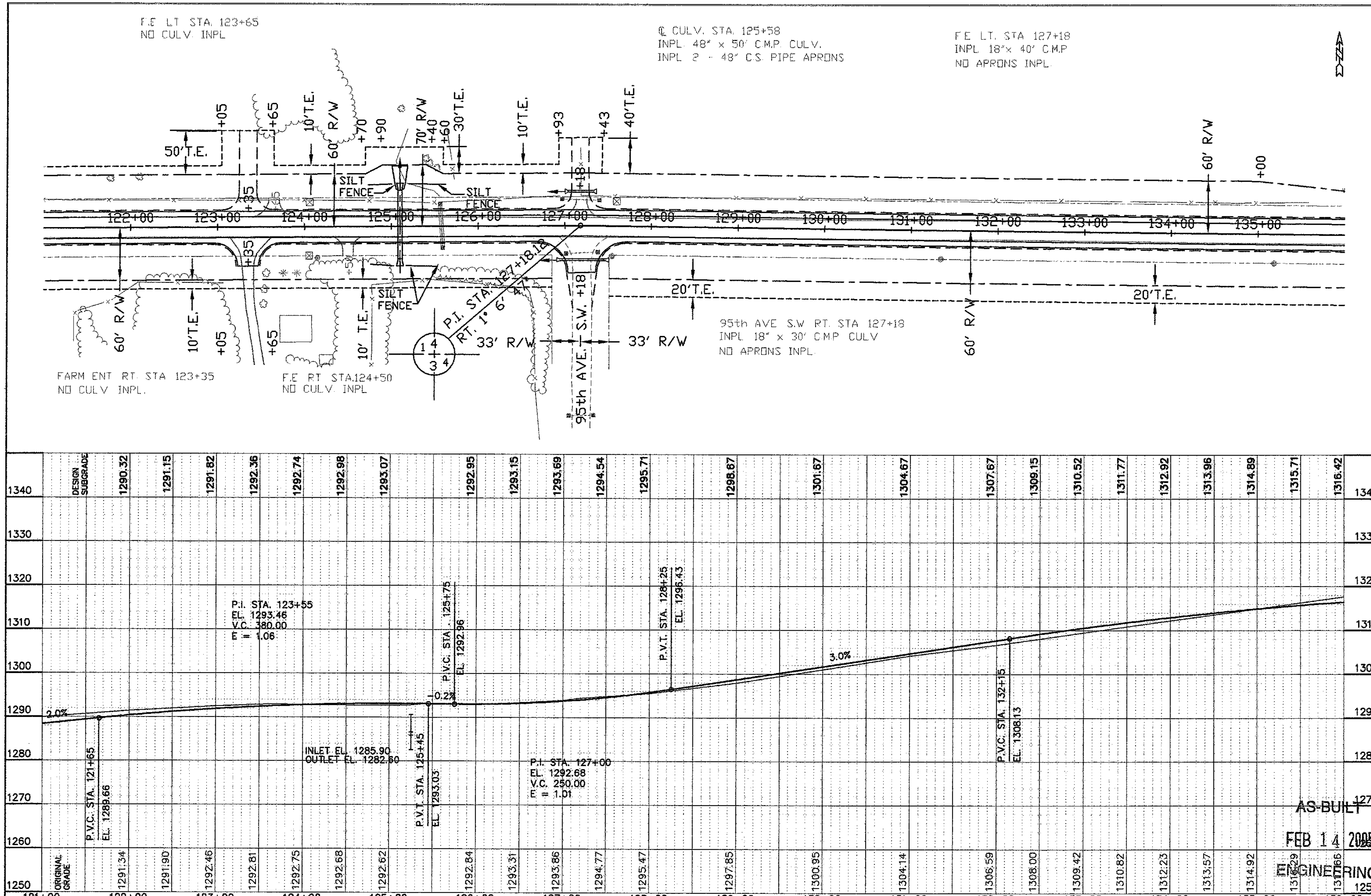
1290.89 1288.89 1287.10 1285.35 1283.66 1282.79 1281.97 1281.70 1281.73 1281.15 1281.04 1281.14 1281.24 1282.08 1281.85 1282.76 1283.67 1285.59 1287.97 1289.90 1291.34

1330 1320 1310 1300 1290 1280 1270 1260 1250 1240

107+00 108+00 109+00 110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00

AS-BUILT
FEB 14 2005
ENGINEERING

C.S.A.H. 6 | CERTIFIED BY Kevin Bierwirth PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002 | S.A.P. 55-606-03 | SHEET 8 OF 103 SHEETS



C.S.A.H. 6 | CERTIFIED BY Kaye M Bieniek (PROFESSIONAL ENGINEER) REG. NO. 19917 11/12 2002 | S.A.P. 55-606-03 | SHEET 9 OF 103 SHEETS

FARM ENT. LT. STA. 137+70
NO CULV. INPL.

RES. ENT. LT. STA. 140+00
INPL. 15" x 30' CMP. CULV.
NO APRON INPL.

F.E. RT. STA. 138+14
INPL. 15" x 24' CMP
INPL. 2 - 15" C.S. PIPE APRONS

FARM ENT. RT. STA. 140+17
INPL. 15" x 24' CMP. CULV.
NO APRONS INPL.

FARM ENT. RT. STA. 147+81
INPL. 15" x 24' CMP. CULV
NO APRONS INPL.

P.I. STA. 138+30
EL. 1326.58
V.C. 1230.00
E = 8.30

P.I. STA. 146+00
EL. 1308.10
V.C. 200.00
E = 0.02

P.V.C. STA. 144+45
EL. 1311.82

P.V.C. STA. 145+00
EL. 1310.50

P.V.T. STA. 147+00
EL. 1305.60

P.V.C. STA. 149+40
EL. 1299.60

3.0%

-2.4%

-2.5%

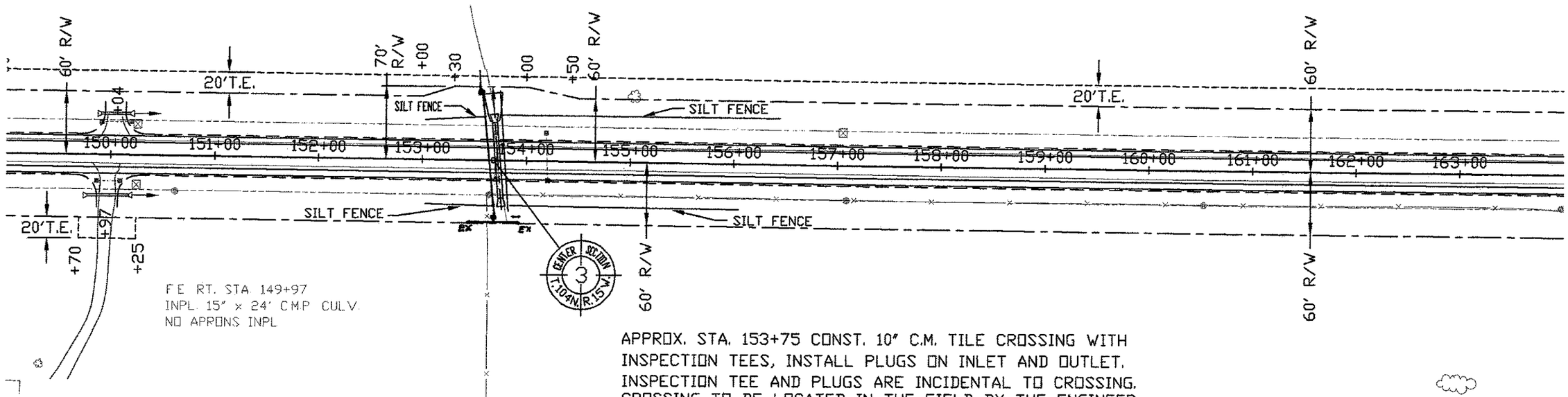
AS-BUILT
FEB 14 2005
ENGINEERING

C.S.A.H. 6 | CERTIFIED BY Kaye M Bruinsma PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2062 | S.A.P. 55-606-03 | SHEET 10 OF 103 SHEETS

F.E. LT. STA. 150+04
INPL. 15" x 30' C.M.P. CULV.
NO CULV. INPL.

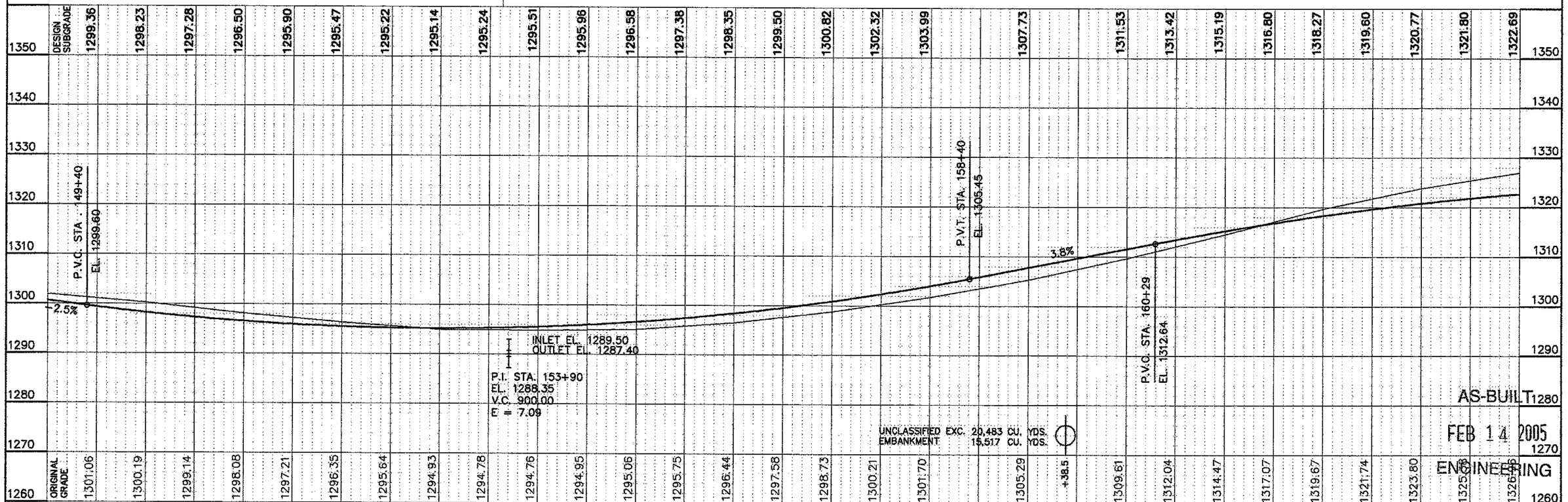
℄ CULV. STA. 153+71
INPL. 36" x 44' C.M.P. CULV.
INPL. 2 - 36" C.S. PIPE APRONS

℄ CULV. STA. 154+20
INPL. 24" x 46' C.M.P. CULV.
NO APRONS INPL.



F.E. RT. STA. 149+97
INPL. 15" x 24' C.M.P. CULV.
NO APRONS INPL.

APPROX. STA. 153+75 CONST. 10" C.M. TILE CROSSING WITH INSPECTION TEES, INSTALL PLUGS ON INLET AND OUTLET. INSPECTION TEE AND PLUGS ARE INCIDENTAL TO CROSSING. CROSSING TO BE LOCATED IN THE FIELD BY THE ENGINEER.



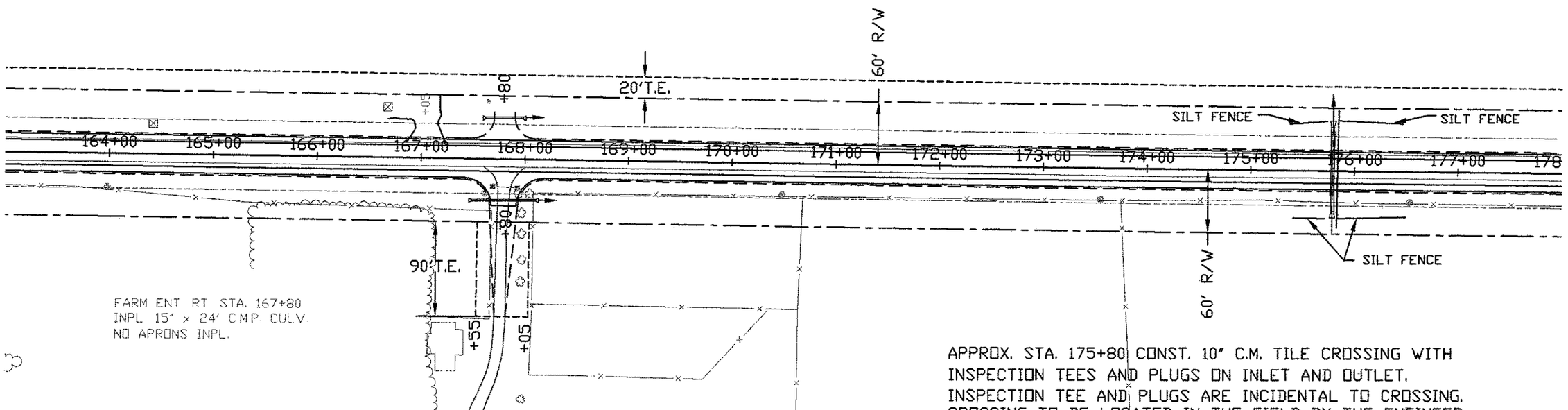
UNCLASSIFIED EXC. 20,483 CU. YDS.
EMBANKMENT 15,517 CU. YDS.

AS-BUILT
FEB 14 2005
ENGINEERING

C.S.A.H. 6 | CERTIFIED BY Kevin M Bierwirth PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002 | S.A.P. 55-606-03 | SHEET 11 OF 103 SHEETS

F.E. LT. STA. 167+05
NO CULV. INPL.

℄ CULV. STA. 175+79
INPL. 30" x 54' C.M.P. CULV.
INPL. 2 - 30" C.S. PIPE APRONS



AS-BUILT
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ENGINEERING

C.S.A.H. 6 | CERTIFIED BY Kaye M Bienieh PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002 | S.A.P. 55-606-03 | SHEET 12 OF 103 SHEETS

FARM ENT. LT STA 189+98
NO CULV INPL

PI STA. 179+98.45
LT. 0° 53' 2"

85th AVE. S.W. RT. STA. 179+98.44
INPL. 15" x 30' C.M.P. CULV.
NO APRONS INPL

F.E. RT STA. 186+19
INPL. 18" x 30' C.M.P. CULV.
NO APRONS INPL.

F.E. RT. STA 189+83
INPL. 15" x 24' C.M.P. CULV.
NO APRONS INPL

85th AVE. S.W.

60' R/W

20'T.E.

70'T.E.

33' R/W

178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00 187+00 188+00 189+00 190+00 191+00

DESIGN SUBGRADE: 1310.09 1310.60 1311.27 1311.87 1312.36 1312.74 1313.01 1313.18 1313.23 1313.17 1313.00 1312.73 1312.34 1311.85 1311.24 1310.53 1309.70 1308.77 1307.72 1306.57 1305.31 1303.93 1302.50 1301.19 1300.01 1298.97 1298.06 1297.29 1296.65 1296.13

ORIGINAL GRADE: 1309.95 1310.28 1310.84 1311.41 1312.64 1313.87 1314.37 1314.86 1315.32 1315.78 1316.45 1315.13 1314.46 1313.79 1312.28 1310.78 1309.18 1307.59 1306.35 1305.11 1303.89 1302.67 1301.75 1300.84 1299.99 1299.16 1298.51 1297.86 1297.35 1296.88

P.V.T. STA. 178+25
EL. 1310.92

P.V.C. STA. 178+30
EL. 1310.99

1.4%

P.I. STA. 183+20
EL. 1317.85
V.C. 980.00
E = 5.27

P.V.T. STA. 188+10
EL. 1303.64

P.V.C. STA. 188+25
EL. 1303.21

2.9%

-1.0%

P.V.T. STA. 191+75
EL. 1296.38

P.I. STA. 190+00
EL. 1298.13
V.C. 350.00
E = 0.83

AS-BUILT

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1340 1330 1320 1310 1300 1290 1280 1270 1260 1250

177+00 178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00

C.S.A.H. 6

CERTIFIED BY Kurt M Roemer PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002

S.A.P. 55-606-03

SHEET 13 OF 103 SHEETS

℄ CULV. STA. 197+15
INPL. 30" x 40' C.M.P. CULV.
NO APRONS INPL

F.E. LT. STA. 198+78
INPL. 15" x 24' C.M.P. CULV.
NO APRONS INPL

60' R/W
20'T.E.
SILT FENCE
SILT FENCE
+80
+30
50'T.E.
+07
+78
60' R/W
192+00
193+00
194+00
195+00
196+00
197+00
198+00
199+00
200+00
201+00
202+00
203+00
204+00
205+00
+07
20'T.E.
+20
60' R/W
+50
70' R/W
SILT FENCE
+80
P.C. STA. 198+24.97
60' R/W
F.E. RT STA 200+07
INPL. 18" x 32' C.M.P. CULV.
NO APRONS INPL
+73
FARM ENT RT STA 203+73
INPL. 15" x 26' C.M.P. CULV.
60' R/W
P.T. STA. 205+74.97

P.I. STA. 202+00
Δ = 00°14'41.39"
T = 375.03
R = 23402.13
L = 750.00
E = 3.00

DESIGN SUBGRADE
ORIGINAL GRADE

	191+00	192+00	193+00	194+00	195+00	196+00	197+00	198+00	199+00	200+00	201+00	202+00	203+00	204+00	205+00	206+00
DESIGN SUBGRADE	1296.65	1296.13	1295.13	1294.14	1293.74	1293.44	1293.24	1293.16	1293.17	1293.29	1293.52	1293.86	1294.29	1294.84	1295.49	1296.24	1297.08	1297.84	1298.51	1299.09	1299.57	1299.95	1300.25	1300.44	1300.54	1300.55	1300.46	1300.28
ORIGINAL GRADE	1297.35	1296.84	1295.85	1294.81	1294.44	1294.08	1293.76	1293.43	1293.48	1293.54	1293.65	1293.77	1294.30	1294.81	1295.45	1296.09	1297.04	1298.02	1298.82	1299.61	1300.02	1300.42	1300.72	1300.99	1300.98	1300.98	1300.94	1300.80

P.V.T. STA. 191+75
EL. 1296.38
P.V.C. STA. 193+80
EL. 1294.33
P.V.T. STA. 200+20
EL. 1296.57
P.I. STA. 203+60
EL. 1302.35
V.C. 660.00
E = 2.06
-1.0%
1.7%
-0.8%
INLET EL. 1288.50
OUTLET EL. 1288.20
P.I. STA. 197+00
EL. 1291.13
V.C. 640.00
E = 2.16
P.V.C. STA. 200+30
EL. 1296.74

1330 1320 1310 1300 1290 1280 1270 1260 1250 1240

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C.S.A.H. 6 | CERTIFIED BY Gary M Roenick PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002 | S.A.P. 55-606-03 | SHEET 14 OF 103 SHEETS

C.R. 115 LT. STA. 206+39
NO CULV. INPL.

℄ CULV. STA. 209+67
INPL 24" x 40' CMP CULV
NO APRONS INPL.

FARM ENT. LT. STA. 215+80
INPL 15" x 32' CMP CULV
NO APRONS INPL

FARM ENT. LT STA. 217+56
INPL 15" x 24' CMP. CULV.
NO APRONS INPL

FARM ENT. LT. STA 219+05
INPL 15" x 28' CMP CULV.
NO APRONS INPL

33' R/W
C.R. 115
33' R/W
CENTER SECTION 2 T.104N. R.15W.
60' R/W
SILT FENCE
+39
+31
+43
+48
50' R/W
50'T.E.
+35
+45
+85
+60
+28
68.32' R/W
+56
69.53 R/W
+78
206+00
207+00
208+00
209+00
210+00
211+00
212+00
213+00
214+00
215+00
216+00
217+00
218+00
219+00
SHRUBS
+03
Sewer Outlet.
60' R/W
P.T. STA. 205+74.97
SILT FENCE
20'T.E.
20'T.E.
FARM ENT. RT. STA 207+03
INPL 15" x 30' CMP. CULV.
NO APRONS INPL.
60' R/W
P.C. STA. 209+47.68
P.I. STA. 217+48
Δ = 00°13'40.30"
T = 800.27
R = 25145.09
L = 1600.00
E = 12.73

DESIGN SUBGRADE
ORIGINAL GRADE
1340
1330
1320
1310
1300
1290
1280
1270
1260
1250
P.V.C. STA. 207+~~50~~ +30
EL. 1299.33
P.V.T. STA. 206+57.5
EL. 1300.07
-0.8%
P.V.T. STA. 210+~~70~~ +10
EL. 1300.11
1.4%
P.I. STA. 208+~~80~~ +50
EL. 1298.~~29~~ .43
V.C. ~~200.00~~ 240
E = 0.71
INLET EL. 1294.27
OUTLET EL. 1292.78
P.V.C. STA. 211+~~84~~ 91
EL. ~~1301.30~~ 1301.34
UNCLASSIFED EXC. 26,447 CU. YDS.
EMBANKMENT 20,035 CU. YDS.
P.I. STA. 214+~~70~~ 80
EL. ~~1306.55~~ 1307.25
V.C. ~~750.00~~ 752
E = ~~2.91~~ 3.04
P.V.C. STA. 218+~~70~~ 90.21
EL. 1299.~~70~~ .72
P.V.T. STA. 218+~~45~~ +56
EL. 1300.18 .35
205+00
206+00
207+00
208+00
209+00
210+00
211+00
212+00
213+00
214+00
215+00
216+00
217+00
218+00
219+00
220+00

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C.S.A.H. 6 | CERTIFIED BY Kurt M Bauman PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002 | S.A.P. 55-606-03 | SHEET 15 OF 103 SHEETS

RES ENT LT STA 223+38
INPL 18" x 32' CMP CULV
NO APRONS INPL

RES ENT LT STA 226+78
INPL 18" x 32' CMP CULV
NO APRONS INPL

FARM ENT LT STA 230+10
INPL 15" x 32' CMP CULV
NO APRONS INPL

P.I. Sta 233+18.25
Δ = 00°08'51.36"
T = 350.01
R = 38818.17
L = 700.00
E = 1.58

69.53 R/W +78
60' R/W
SPLIT RAIL FENCE
SILT FENCE
+38
SPLIT RAIL FENCE
60' R/W
+83
+79
50' R/W
+10
Drain Field
50' R/W
+20
N

226+00 221+00 222+00 223+00 224+00 225+00 226+00 227+00 228+00 229+00 230+00 231+00 232+00 233+00

+70
SILT FENCE
20' T.E.
P.T. STA. 225+47.68
60' R/W
P.C. STA. 229+68.25
20'T.E.
+12
33' R/W
33' R/W

F.E RT STA. 221+70
INPL 15" x 28' CMP CULV
NO APRONS INPL

60'T.E.

℄ CULV STA 222+90
INPL 24" x 32' CMP CULV
NO APRONS INPL

75th AVE S.W. RT STA 233+12
INPL 15" x 40' CMP CULV
NO APRONS INPL.

F.E ON 75th AVE S.W. APPROX
65' RT. C.S.A.H. 6 ℄
NO CULV INPL

MOVE 100' RT. C.S.A.H. 6 ℄
NO CULV. REQ'D

+35 +05

75th AVE S.W.

DESIGN SUBGRADE
~~1298.54~~ 1298.72
~~1297.03~~ 1297.03 ~~9.03~~
~~1297.44~~ 1297.47
~~1297.06~~ 1297.04
~~1296.80~~ 1296.74
~~1296.66~~ 1296.58
~~1296.64~~ 1296.55
~~1296.70~~ 1296.65
~~1296.80~~ 1296.88
1297.18
1297.42
1297.56
1297.59
1297.52
1297.35
1297.08
1296.70
1296.22
1295.64
1294.96
1294.17
1293.28
1292.29
1291.19
1290.00
1288.71
1286.11
1283.51

~~1.72~~ 50.2
P.V.T. STA. 223+~~70~~ 70.00
EL. ~~1297.00~~ 1296.85
0.6%

P.I. STA. 227+85
EL. 1299.49
V.C. 780.00
E = 3.12

-1.7%

INLET EL. 1292.31
OUTLET EL. 1291.72

P.I. STA. 221+20
EL. 1295.50
V.C. ~~500.00~~ 460
E = ~~1.44~~ .40

P.V.C. STA. 223+95.21
EL. 1297.15

INLET EL. 1292.0
OUTLET EL. 1291.5

P.V.T. STA. 231+75.21
EL. 1289.35

-2.6%

ORIGINAL GRADE
1298.30
1297.72
1297.42
1297.13
1296.85
1296.59
1296.68
1296.72
1296.97
1297.15
1297.38
1297.62
1297.73
1297.85
1298.02
1297.97
1297.69
1297.40
1296.76
1296.11
1295.18
1294.21
1292.96
1291.65
1290.32
1289.00
1286.53
1283.66

1330 1320 1310 1300 1290 1280 1270 1260 1250 1240

219+00 220+00 221+00 222+00 223+00 224+00 225+00 226+00 227+00 228+00 229+00 230+00 231+00 232+00 233+00 234+00

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FARM ENT. LT. STA. 234+17
INPL. 18" x 28' C.M.P. CULV.
NO APRONS INPL

FARM ENT LT STA 238+65
INPL 15" x 26' C.M.P CULV
NO APRONS INPL.

IRONWOOD SPRINGS CHRISTIAN RANCH
LT. STA. 246+07
INPL. 24" x 40' C.M.P. CULV.
NO APRONS INPL

℄ CULV. STA. 247+14
INPL. 72" x 30' R.C.P. CULV.
WITH LIMESTONE WINGWALLS

SIGN DECOR

55' T.E.

SHRUBS

SHRUBS

FARM ENT. RT. STA. 238+65
INPL. 15" x 24' C.M.P. CULV
NO APRONS INPL

F.E. RT STA 245+85
INPL 15" x 24' C.M.P. CULV
NO APRONS INPL

SILT FENC

P.T. STA. 236+68.25

60' R/W

65' R/W

DESIGN SUBGRADE

ORIGINAL GRADE

-2.6%

-0.1%

P.V.C. STA. 241+85
EL. 1263.09

P.V.T. STA. 244+85
EL. 1259.04

P.I. STA. 243+35
EL. 1259.19
V.C. 300.00
E = 0.94

AS-BUILT
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C.S.A.H. 6 | CERTIFIED BY Lance M Roemich PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002 | S.A.P. 55-606-03 | SHEET 17 OF 103 SHEETS

F.E. LT. STA 247+60
NO CULV. INPL.

BRIDGE NO 5945 STA 249+20.5
38' x 26' CONC. SPAN
WITH RAILING AND WINGWALLS
BRIDGE NO. 55J40
SEE BRIDGE SHEET NO. 88-92

F.E. LT. STA 252+94
INPL. 18" x 24" C.M.P. CULV.
NO APRONS INPL

STA. 250+50 C.S.A.H. 6 =
STA. 16+00 ROBINSON CREEK RD.

CENTER SECTION 1 T.104N. R.15W.

ROBINSON CREEK RD.
RT. STA. 251+72
INPL. 15" x 62' C.M.P. CULV.
NO APRONS INPL.

RES. ENT. RT. STA 261+60
INPL 15"x 32' C.M.P.
NO APRONS INPL

CENTER INLET EL. 1245.0
OUTSIDE INLET EL. 1246.0
CENTER OUTLET EL. 1243.0
OUTSIDE OUTLET EL. 1244.0

P.I. STA. 253+10
EL. 1258.22
V.C. 300.00
E = 0.09

P.V.C. STA. 251+60
EL. 1258.37

P.V.T. STA. 254+60
EL. 1258.43

P.V.C. STA. 261+70
EL. 1259.42

-0.1%

0.1%

UNCLASSIFIED EXC. 16,591 CU. YDS.
EMBANKMENT 12,569 CU. YDS.

AS-BUILT
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C.S.A.H. 6 | CERTIFIED BY Kari M Bierwirth PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002 | S.A.P. 55-606-03 | SHEET 18 OF 103 SHEETS

F.E. LT STA 263+39
NO CULV. INPL.

℄ CULV STA. 264+39
INPL. 4' x 6' x 30' CONC. BOX
WITH WINGWALLS

BRIDGE NO. 55J43
SEE BRIDGE SHEET NO. 93-96

EXIST. 4" TILE STA 264+45
EXIST 8" TILE EL 1251.5
20' LT. STA. 264+44 WITH INSPECTION TEE
RELOCATE 8" EXIST. TILE AND CONNECT
10" CROSSING. CONNECTION TO INSPECTION
TEE TO BE INCIDENTAL TO TILE CROSSING.
8" TILE RELOCATION TO BE DESIGNATED IN
THE FIELD BY ENGINEER.

RES ENT LT. STA 269+23
INPL 15" x 30' C.M.P. CULV
NO APRONS INPL

F.E. LT STA 273+66
INPL 15" x 24' C.M.P. CULV
NO APRONS INPL

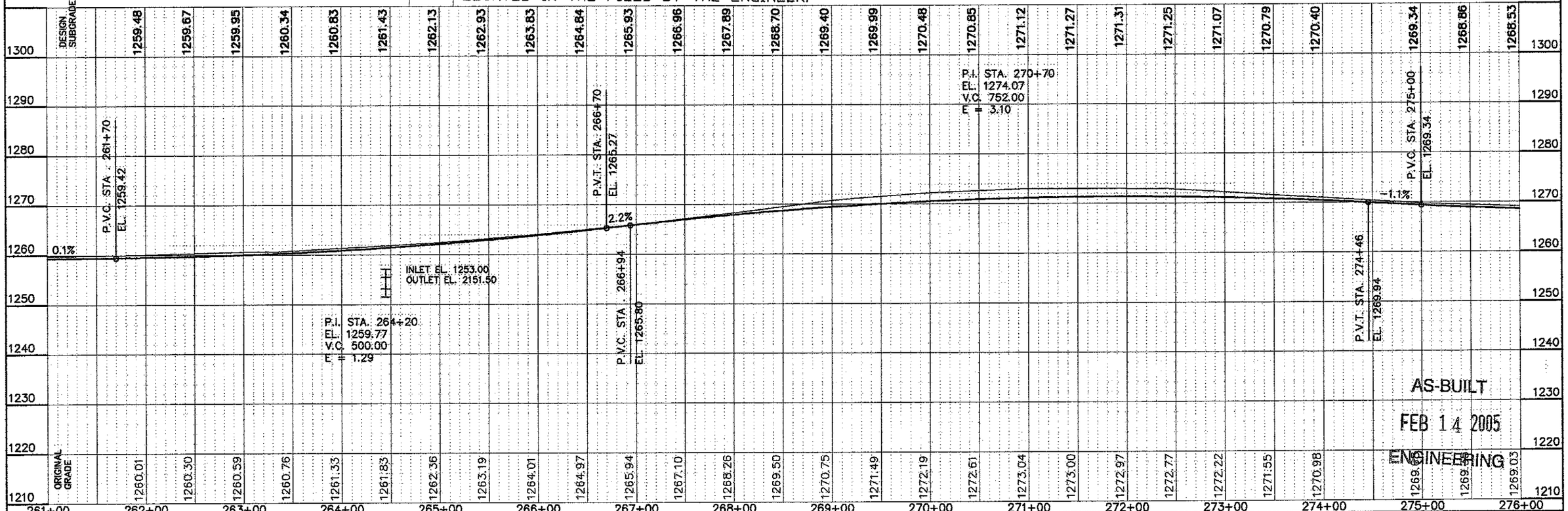
N22°E

60' R/W
50'T.E.
+80
+05
+30
+40
+64
+90
37'
40'
+40
100'R/W
SILT FENCE
SILT FENCE
60' R/W
EXIST. TILE
+23
40'T.E.
+40
+90
+66
262+00
263+00
264+00
265+00
266+00
267+00
268+00
269+00
270+00
271+00
272+00
273+00
274+00
275+00
SILT FENCE
SCRUBS
EXIST. TILE
20'T.E.
+53
+48
20'T.E.
10'T.E.
+35
+60
+85
+00
+05
+50
60' R/W
+25
SILT FENCE
60' R/W

FARM ENT RT. STA 263+05
NO CULV. INPL

EXIST. 10" TILE OULET EL 1254.80
53' RT. STA. 264+61
RELOCATE 10" OUTLET IN FIELD
CONST. 10" C.M. TILE CROSSING WITH INSPECTION TEES
ON BOTH ENDS. INSPECTION TEE AND CONNECTION TO BE
INCIDENTAL TO 10" TILE CROSSING. TILE CROSSING TO BE
LOCATED IN THE FIELD BY THE ENGINEER.

F.E. LT STA 272+43
NO CULV. INPL.



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APPROX. STA. 279+00 CONST. 10" C.M. TILE CROSSING WITH INSPECTION TEES. CONNECT TO EXIST 10" TILE OUTLET, APPROX. 45' RT. STA 279+00. INLET INSPECTION TEES AND CONNECTION ARE INCIDENTAL TO CROSSING. CROSSING TO BE LOCATED IN THE FIELD BY THE ENGINEER.

F.E. LT. STA. 281+87
INPL 15" x 28' C.M.P. CULV.
INPL 2 - 15' C.S. PIPE APRONS

RES. ENT. LT. STA. 286+03
NO CULV. INPL

NO CULV. REQ'D

60' R/W

10'T.E.

20'T.E.

276+00 277+00 278+00 279+00 280+00 281+00 282+00 283+00 284+00 285+00 286+00 287+00 288+00 289+00

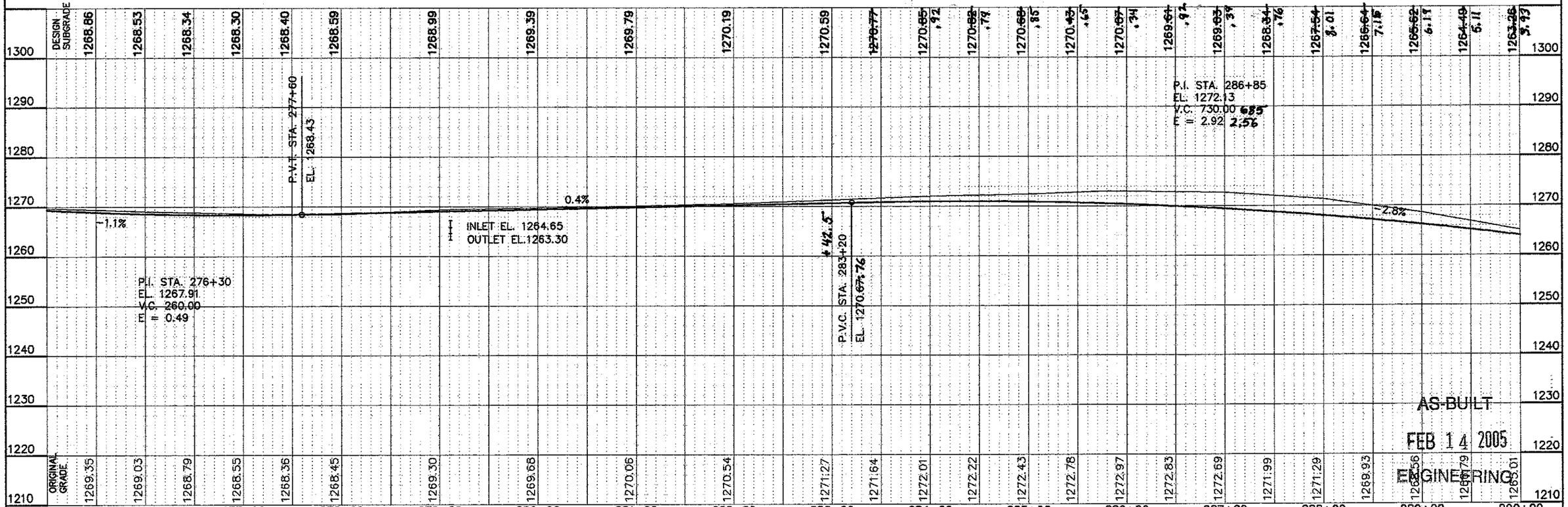
+39 +65 +87 +10 +00 +00 +50 +70 +03 +30 +00 +65

℄ CULV. STA. 279+11
INPL 30" x 44' C.M.P. CULV.
NO APRONS INPL.

F.E. LT. STA. 277+39
INPL 18" x 28' C.M.P. CULV.
NO APRONS INPL

P.I. STA. 285+82.20
RT. 0° 34' 13"

T.104N. R.14W. 10 4N. R.15W. 1 6 4 1



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C.S.A.H. 6 | CERTIFIED BY Kevin M Biernat PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002 | S.A.P. 55-606-03 | SHEET 20 OF 103 SHEETS

℄ CULV STA 293+63 SKEWED 6°
INPL 6'× 8' × 62' CONC. BOX
WITH WINGWALLS
BRIDGE NO. 55J42
SEE BRIDGE SHEET NO. 97-101

~~APPROX. STA. 293+60 CONST. 10" C.M. TILE CROSSING WITH INSPECTION TEES. CONNECT TO EXIST 10" TILE OUTLET, APPROX 45' RT. STA 293+70. INLET INSPECTION TEES AND CONNECTION ARE INCIDENTAL TO CROSSING. CROSSING TO BE LOCATED IN THE FIELD BY THE ENGINEER.~~

SILT FENCE

SILT FENCE

SILT FENCE

SILT FENCE

F.E. LT. STA. 299+00
NO CULV INPL.

FARM ENT. LT. STA. 301+62
INPL. 15" × 28' C.M.P. CULV.
NO APRONS INPL.

F.E. RT. STA. 290+12
INPL. 15" × 32' C.M.P. CULV.
NO APRONS INPL.

FARM ENT. RT. STA. 296+83
INPL. 15" × 24' C.M.P. CULV.
NO APRONS INPL.

FARM ENT RT. STA. 298+29
NO CULV INPL.

F.E. RT. STA. 301+62
INPL. 15" × 24' C.M.P. CULV.
NO APRONS INPL.

℄ CULV. STA 299+78.5
INPL. 30" × 56' C.M.P. CULV.
NO APRONS

SHRUBS

BUSHES

10 ARBORVITAE BUSHES 6' TALL

BUSH

Tile Outlet

P.V.I. STA. 290+50
EL. 1262.64

P.V.T. STA. 290+27.50
EL. 1263.23

P.I. STA. 292+95
EL. 1256.27
V.C. 490
E = 2.33

INLET EL. 1239.40
OUTLET EL. 1237.40

P.V.T. STA. 295+40
EL. 1259.21

P.V.C. STA. 297+55
EL. 1261.79

P.I. STA. 298+55
EL. 1262.99
V.C. 200
E = 0.15

P.V.T. STA. 299+55
EL. 1263.59

INLET EL. 1258.07
OUTLET EL. 1253.30

2.6%

1.2%

0.6%

UNCLASSIFIED EXC. 25,873 CU. YDS.
EMBANKMENT 19,600 CU. YDS.

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C.S.A.H. 6 | CERTIFIED BY Kaye M Polenick PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002 | S.A.P. 55-606-03 | SHEET 21 OF 103 SHEETS

F.E. LT. STA. 308+50
INPL. 15" x 28' C.M.P. CULV.
NO APRONS INPL.

F.E. LT. STA. 317+77
INPL. 15" x 24' C.M.P. CULV.
NO APRONS INPL.

CENTER SECTION 6 T.104N. R.14 W.

STA. 311+52.97

60th AVE. S.W. LT. STA. 311+52
INPL. 30" x 42' C.M.P. CULV.
NO APRONS INPL.

304+00 305+00 306+00 307+00 308+00 309+00 310+00 311+00 312+00 313+00 314+00 315+00 316+00 317+00

+76 +00 · 20'T.E. · +00 · 20'T.E. · 60' R/W · 33' R/W · 33' R/W · 60' R/W · 40'T.E. · +70 · +35 · +50 · +90 · +27 · +00 · +50 · 10'T.E.

60th AVE. S.W.

DESIGN SUBGRADE

ORIGINAL GRADE

P.I. STA. 309+95
EL. 1269.79
V.C. 920
E = 4.60

0.6%

P.V.C. STA. 305+35
EL. 1267.93

P.V.C. STA. 314+71
EL. 1253.61

P.V.T. STA. 314+55
EL. 1254.15

P.I. STA. 317+41
EL. 1244.43
V.C. 540
EL. 42.7

AS BUILT

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ENGINEERING

1300	1290	1280	1270	1260	1250	1240	1230	1220	1210
DESIGN SUBGRADE	1266.92	1266.82	1267.12	1267.33	1267.44	1267.43	1267.32	1267.10	1266.77	1266.33	1265.78	1265.12	1264.36	1263.48	1262.50	1261.41	1260.21	1258.90	1257.48	1255.96	1254.32	1252.66	1251.16	1249.86	1248.74	1247.81	1247.08	1246.53
ORIGINAL GRADE	1267.27	1267.84	1268.20	1268.56	1268.85	1269.15	1269.38	1269.61	1269.59	1269.25	1268.48	1267.71	1266.76	1265.81	1264.34	1262.95	1261.14	1259.33	1257.72	1256.11	1254.49	1252.86	1251.52	1250.18	1248.98	1247.87	1246.88	1246.61

303+00 304+00 305+00 306+00 307+00 308+00 309+00 310+00 311+00 312+00 313+00 314+00 315+00 316+00 317+00 318+00

C.S.A.H. 6

CERTIFIED BY Kaye M Bruneck PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002

S.A.P. 55-606-03

SHEET 22 OF 103 SHEETS

RES. ENT LT. STA. 325+43
INPL 18" x 32' CMP. CULV
NO APRONS INPL

RES. ENT. LT. STA. 331+50
INPL 18" x 32' CMP. CULV
NO APRONS INPL

SILT FENCE

SILT FENCE

SILT FENCE

℄ CULV. STA. 318+09.6 SKEWED 10°
INPL 42" x 54' CMP CULV.
INPL. 2- 42" CS PIPE APRONS

FARM ENT RT. STA. 322+75
INPL 18" x 36' CMP CULV.

℄ CULV STA 329+52.5 SKEWED 22°
INPL 36" x 48' CMP CULV
NO APRONS INPL.

70'T.E.

10'T.E.

10'T.E.

60' R/W

60' R/W

75' R/W

75' R/W

40'T.E.

50' R/W

318+00 319+00 320+00 321+00 322+00 323+00 324+00 325+00 326+00 327+00 328+00 329+00 330+00 331+00

DESIGN SUBGRADE
ORIGINAL GRADE

1247.08 1246.53 1246.18 1246.01 1246.03 1246.25 1246.94 1247.64 1248.34 1249.04 1249.74 1250.44 1251.14 1251.84 1252.54 1252.91 1253.41 1254.09 1254.94 1257.01

1247.77 1246.98 1246.61 1246.37 1246.21 1246.49 1246.77 1247.48 1248.20 1248.96 1249.65 1250.35 1251.32 1251.98 1252.63 1253.25 1253.60 1254.12 1254.82 1255.53 1257.48

P.V.T. STA. 320+11
EL. 1246.32

P.V.C. STA. 329+31
EL. 1252.76

P.V.T. STA. 331+31
EL. 1255.56

0.7%

2.1%

INLET EL. 1239.72
OUTLET EL. ~~1238.30~~

INLET EL. 1246.52
OUTLET EL. ~~1243.22~~ 4.11

P.I. STA. 317+41
EL. 1244.43
V.C. 540.00
E = 2.77

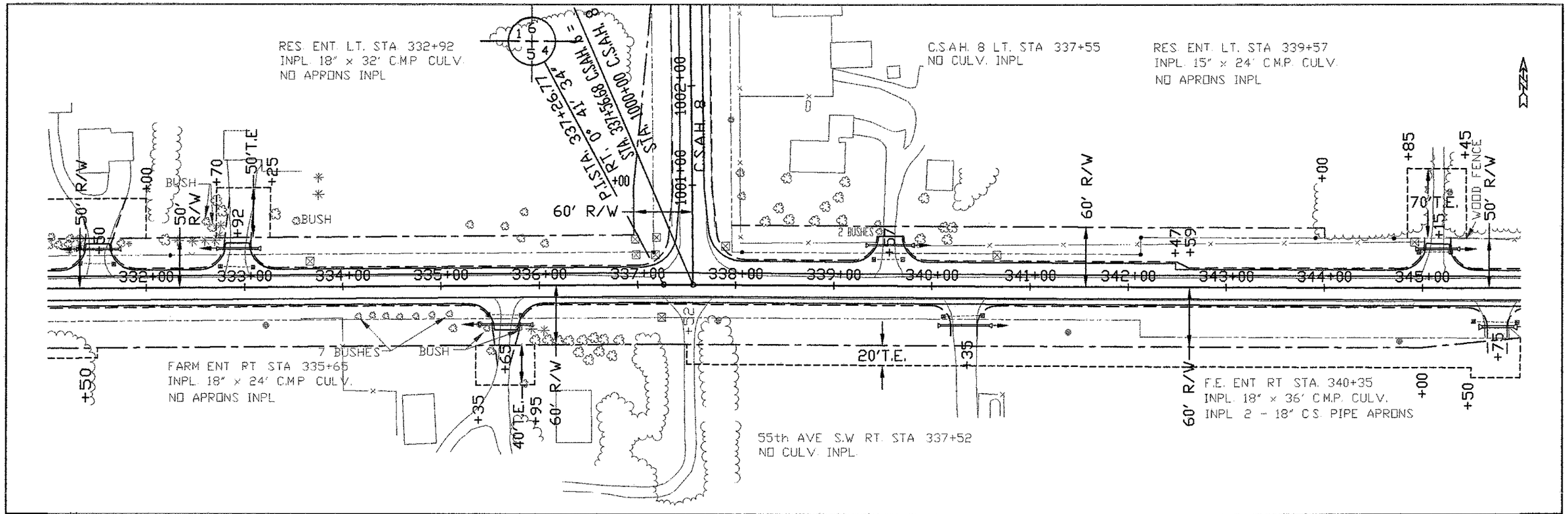
P.I. STA. 330+31
EL. 1253.46
V.C. 200.00
E = 0.35

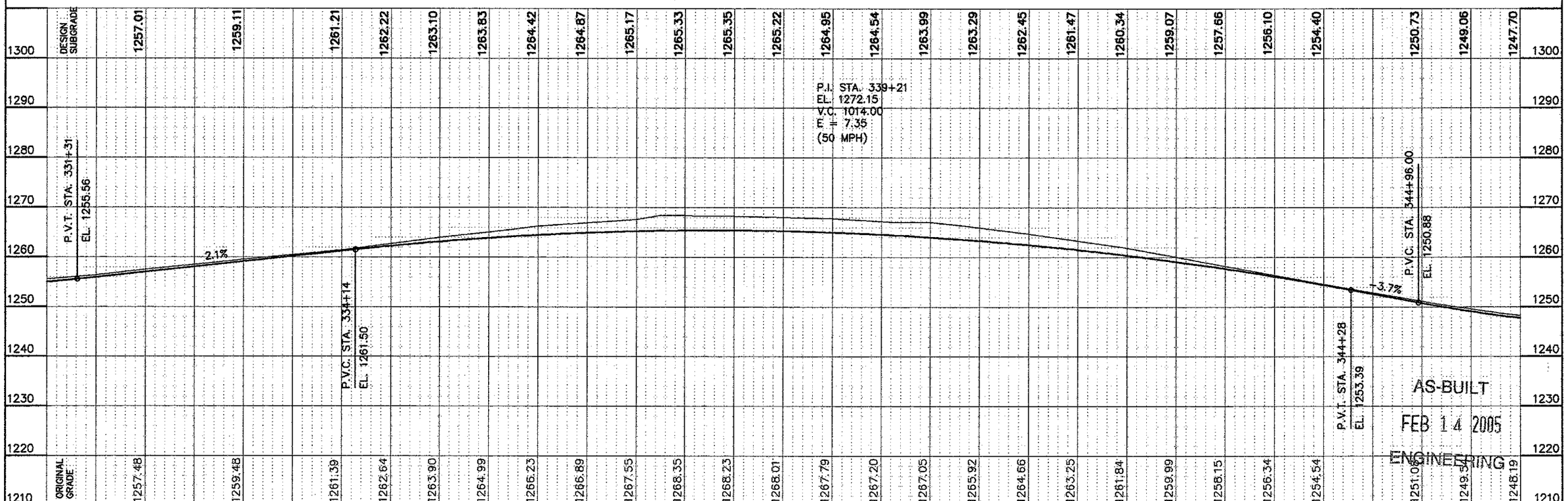
AS-BUILT
FEB 14 2005
ENGINEERING

1290 1280 1270 1260 1250 1240 1230 1220 1210 1200

317+00 318+00 319+00 320+00 321+00 322+00 323+00 324+00 325+00 326+00 327+00 328+00 329+00 330+00 331+00 332+00

C.S.A.H. 6 | CERTIFIED BY Kaye M Baerwald PROFESSIONAL ENGINEER REG. NO. 19917 11/12 20 02 | S.A.P. 55-606-03 | SHEET 23 OF 103 SHEETS





AS-BUILT
FEB 14 2005
ENGINEERING

C.S.A.H. 6 | CERTIFIED BY Kevin M Brenneh PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002 | S.A.P. 55-606-03 | SHEET 24 OF 103 SHEETS

RES. ENT LT. STA. 345+15
INPL 18" x 28' CMP. CULV.
INPL 2 - 19" CS PIPE APRONS

+45
WOOD FENCE
50' R/W
+15

END S.A.P. 55-606-12
STA. 347+50

Q CULV. STA. 348+01 SKEWED 20°
INPL 30" x 92' CMP CULV
INPL 2 - 30" CS PIPE APRONS
NO CHANGE

346+00 347+00 348+00 349+00 350+00 351+00 352+00 353+00 354+00 355+00 356+00 357+00 358+00 359+00 360

+75
+50
+00
40'T.E.

P.E. ENT. RT STA. 345+75
INPL 24" x 36' CMP CULV.
INPL 2 - 24" CS PIPE APRONS

DESIGN SUBGRADE
1249.06 1247.70 1246.67 1245.95 1245.54

END: STA. 247+50
EL. 1245.54

-3.7%

P.I. STA. 346+59
EL. 1244.84
V.C. 326.00
E. = 1.67
(40 MPH)

UNCLASSIFIED EXC. 30,175 CU. YDS.
EMBANKMENT 13,697 CU. YDS.

+56

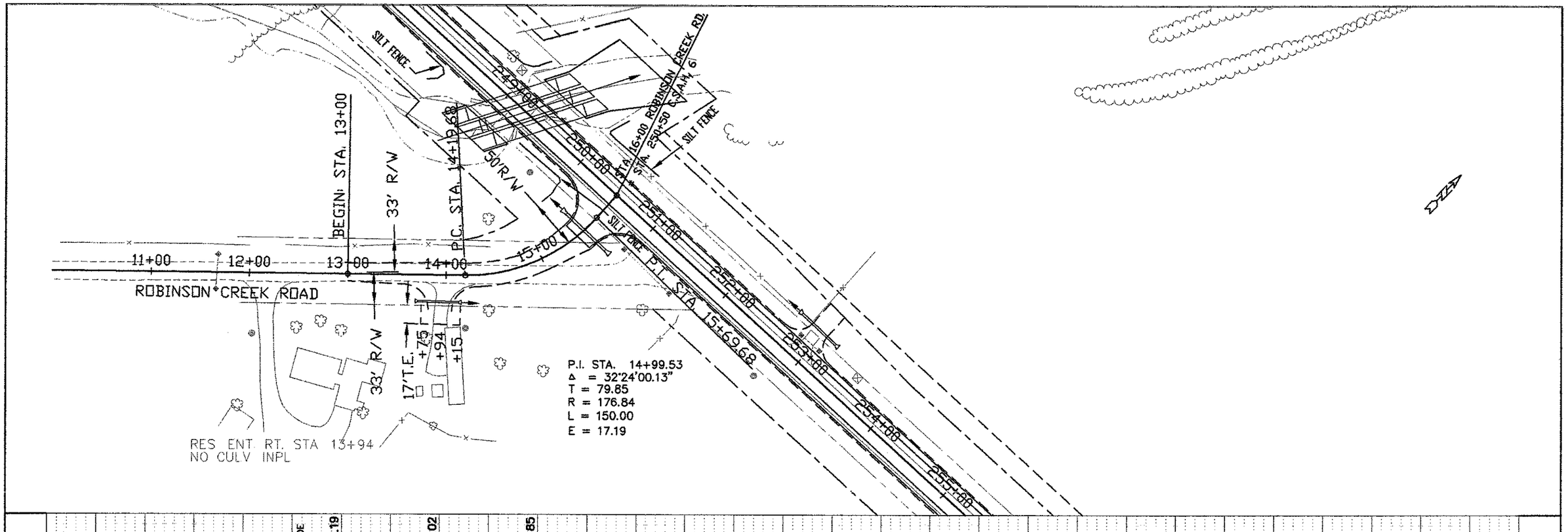
ORIGINAL GRADE
1249.54 1248.19 1247.59 1247.00 1247.04

1280 1270 1260 1250 1240 1230 1220 1210 1200 1190

345+00 346+00 347+00 348+00 349+00 350+00 351+00 352+00 353+00 354+00 355+00 356+00 357+00 358+00 359+00 360+00

AS-BUILT
FEB 14 2005
ENGINEERING

C.S.A.H. 6 | CERTIFIED BY Kayen M Brenner PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002 | S.A.P. 55-606-03 | SHEET 25 OF 103 SHEETS



AS-BUILT

FEB 14 2005

ENGINEERING

ROBINSON CREEK | CERTIFIED BY Kevin Bierwith PROFESSIONAL ENGINEER REG. NO. 19917 11/12/2002 | S.A.P. 55-606-03 | SHEET 26 OF 103 SHEETS

RES ENT LT. STA. 1005+80
INPL 18" SPAN x 32' C.M.P. CULV.
NO APRONS INPL
NO CHANGE

RES ENT LT. STA. 1005+43
INPL. 18" x 32' C.M.P. CULV.
NO APRONS INPL.
NO CHANGE

P.I. STA. 337+26.77
STA. 337+56.68 C.S.A.H. 6 =
STA. 1000+00 C.S.A.H. 8

60' R/W
40' R/W
40' R/W

C.S.A.H. 8
END: STA. 1003+00

1001+00 1002+00 1004+00 1005+00 1006+00 1007+00 1008+00 1009+00 1010+00

336+00 337+00 338+00 339+00 340+00

+00 +85 +80 +43

DESIGN SUBGRADE
ORIGINAL GRADE

1265.34 1264.65 1264.00 1262.85 1261.20 1259.08 1256.82
1268.28 1267.08 1265.99 1264.25 1262.51 1258.32

P.I. STA. 1001+35.50
EL. 1264.24
V.C. 200.00
K = 1.00
(30 MPH POSTED)

BEGIN: C.S.A.H. 8
STA. 1000+25.5
EL. 1264.79

END: C.S.A.H. 8
STA. 1003+00
EL. 1256.82

-0.50%
-4.51%

Q C.S.A.H. 6
EL. 1265.34

P.V.C. STA. 1000+35.50
EL. 1264.74

P.V.T. STA. 1002+35.50
EL. 1259.73

UNCLASSIFIED EXC. 1,771 CU. YDS.
EMBANKMENT 555 CU. YDS.
EXCESS MATERIAL IS FIGURED INTO
C.S.A.H. 6 BALANCE

1300 1290 1280 1270 1260 1250 1240 1230 1220 1210

998+00 999+00 1000+00 1001+00 1002+00 1003+00 1004+00 1005+00 1006+00 1007+00 1008+00 1009+00 1010+00 1011+00 1012+00 1013+00

AS-BUILT
FEB 14 2005
ENGINEERING

C.S.A.H. 8 | CERTIFIED BY Kevin M Bienieh PROFESSIONAL ENGINEER REG. NO. 19917 11/12 2002 | S.A.P. 55-606-03 | SHEET 27 OF 103 SHEETS