COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE	-	1	104

ITEM # 8-143.0

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

PLANS OF
PROPOSED PROJECT

ROCKCASTLE CO. (US. 25)

GRADE, DRAIN, & SURFACE

STPR 461-1(6)

INDEX OF SHEETS

SHEETS NOT INCLUDED IN TOTAL SHEETS
2a-2, 21a-21i, 14a-14k

TOTAL BRIDGE SHEETS —— N/A

STANDARD DRAWINGS

NUMBER

RBI-001-07	RDI-001-05		RDI-025-02
RBI-002-05	RDI-002	RGS-001-05	TSC-201-08
RBR-005-09	RDI-003	RGS-002-03	TSC-221-05
	RDI-020-06	RGX-001-03	TSC-265
RDB-001-10	RDI-035	RGX-005-03	TSC-300-06
RDB-002-10	RDX-001-04	RGX-010-02	TSC-305-03
RDB-105-04	RDX-002-02	RPM-110-03	TSC-320-05
RDB-106-03	TSC-260-10	TSC-261-07	TSC-400-02
			RFC-001-06
			RFW-001-03

TOTAL STANDARD DRAWINGS 32

RECORD PLANS | CONSTRUCTION PLANS | NO. SETS | DATE

REVIEWED BY ______
DIVISION OF CONSTRUCTION

PREPARED BY ______ DATE ______
CHECKED BY ______ DATE ______
APPROVED BY ______ DATE ______

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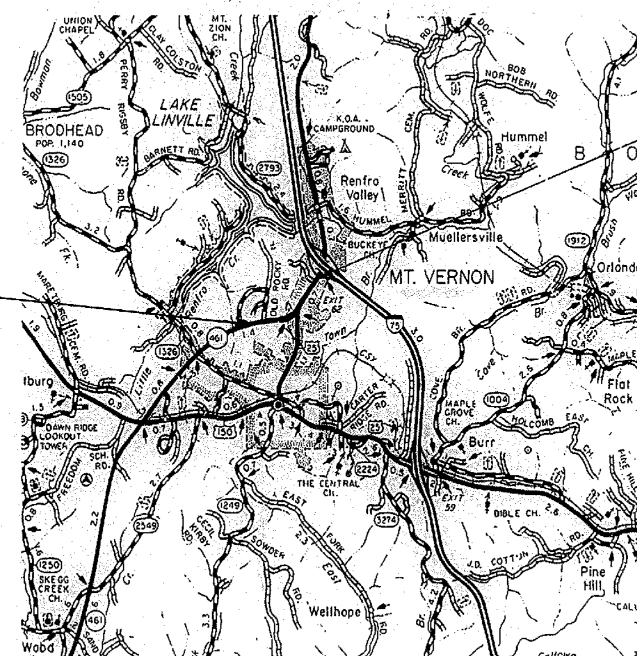
Cell Name: sl
02-JUL-1996 09:28

6-93
FORM NO. 1m

STA. 4+420
BEGIN PROJECT



MAP DISTANCES IN MILES

STA. 6+560
END PROJECT

METRIC

FROM STA. 4+420 TO STA. 5+564.1 LT. &
FROM STA. 4+420 TO STA. 5+454.75 RT.
ACCESS SHALL BE PROVIDED ONLY WHERE SPECIFICALLY INDICATED ON PLANS.

FROM STA. 5+564.1 LT. TO 6+332.23 AND
FROM STA 5+454.75 RT. TO 6+332.23
THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT.

AS BUILT PLANS
Dayton Newman
Director, Division of Construction
Date 12/11/02

DESIGN CRITERIA

CLASS OF HIGHWAY ARTERIAL RURAL
TYPE OF TERRAIN MOUNTAINOUS
DESIGN SPEED 70 KMPH
REQUIRED NPSD 100
REQUIRED PSD 505
LEVEL OF SERVICE ______
ADT PRESENT (1996) 9300
ADT FUTURE (2012) 15,500
DHV (2012) 1600
D % 8
T % 5

GEOGRAPHIC COORDINATES

LATITUDE 37 DEGREES 22 MINUTES NORTH
LONGITUDE 84 DEGREES 20 MINUTES WEST

DESIGNED

% RESTRICTED SD ______
LEVEL OF SERVICE ______
MAX. DISTANCE W/O PASSING ______

0 1 2 3 4
GRAPHIC SCALE IN KILOMETERS

LAYOUT MAP

GROSS LENGTH 2,140 METERS 2.14 km
ADDED / DEDUCTED FOR EQUALITIES 0 METERS
NET LENGTH 2,140 METERS 2.14 km
NOT INCLUDED
RAILROAD CROSSINGS NO. ______ METERS
BRIDGES ______ METERS

GROSS LENGTH ______ METERS ______ km
ADDED / DEDUCTED FOR EQUALITIES ______ METERS
NET LENGTH ______ METERS ______ km
NOT INCLUDED
RAILROAD CROSSINGS NO. ______ METERS
BRIDGES ______ METERS

GROSS LENGTH ______ METERS ______ km
ADDED / DEDUCTED FOR EQUALITIES ______ METERS
NET LENGTH ______ METERS ______ km
NOT INCLUDED
RAILROAD CROSSINGS NO. ______ METERS
BRIDGES ______ METERS

GROSS LENGTH ______ METERS ______ km
ADDED / DEDUCTED FOR EQUALITIES ______ METERS
NET LENGTH ______ METERS ______ km
NOT INCLUDED
RAILROAD CROSSINGS NO. ______ METERS
BRIDGES ______ METERS

ITEM NO. 8-143.0

KENTUCKY
DEPARTMENT OF HIGHWAYS
ROCKCASTLE COUNTY

MT. VERNON-BEREA ROAD (US 25)

PROJECT STPR 461-1(6)
NUMBER: FD 52 102 0025 015-016
LETTING DATE: 4-23-99

DESIGNED BY 2-24 1999 BY P.R. Francis
ASST. DISTRICT ENGINEER FOR PRE-CONSTRUCTION

PLAN APPROVED 3-22 1999 BY J.M. Yowell
STATE HIGHWAY ENGINEER

TYPICAL SECTIONS

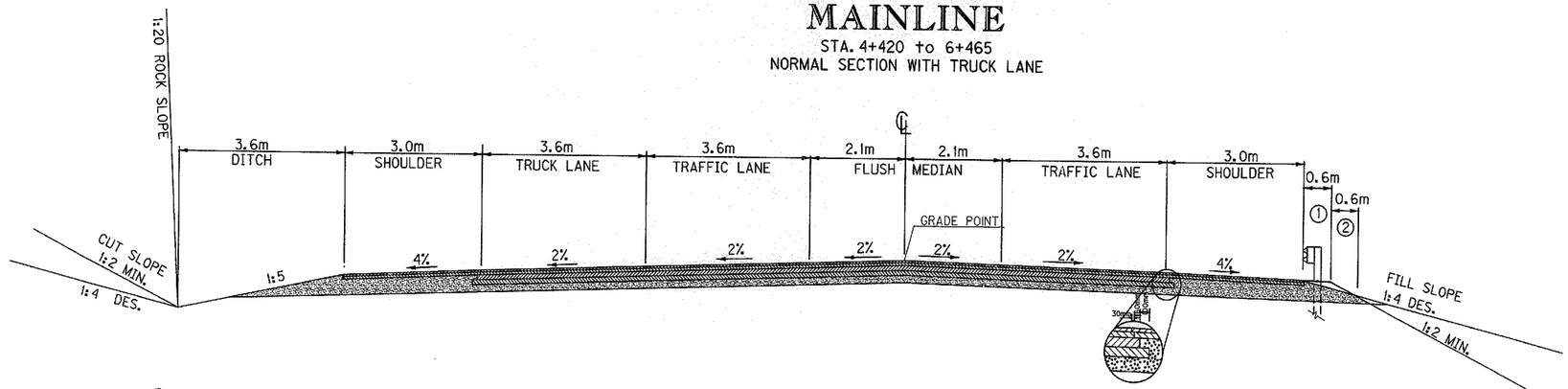
COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		2	104

ITEM# 8-143.00

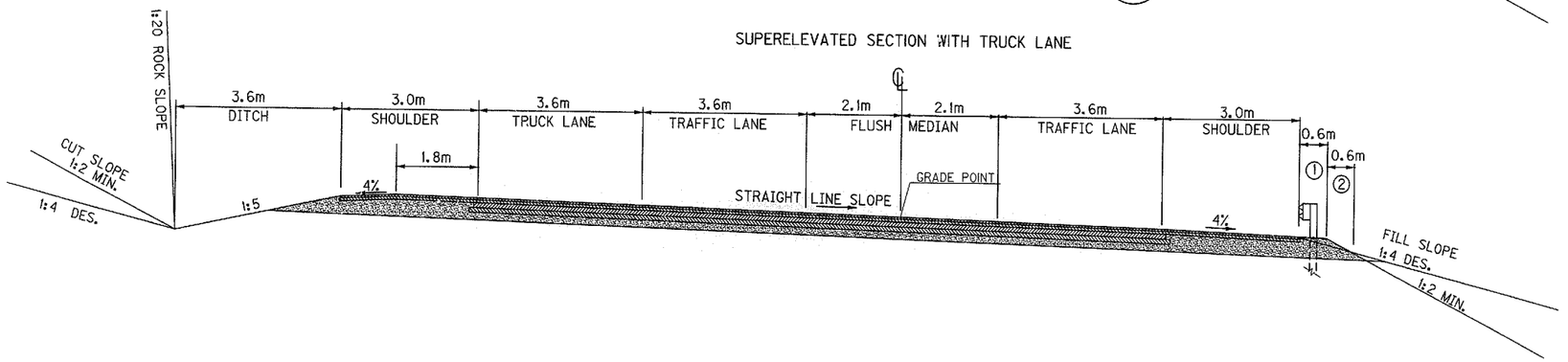
MAINLINE

STA. 4+420 to 6+465

NORMAL SECTION WITH TRUCK LANE



SUPERELEVATED SECTION WITH TRUCK LANE



MAINLINE TRAFFIC LANES:

(WIDENING)

DGA BASE	150mm DEPTH
CL3 ASPHALT BASE 19E (PG 64-22)	260mm DEPTH (100mm + 100mm+60mm)

(OVERALL)

ASPHALT MIX LEVEL & WEDGE (PG64-22)	M TON (Est. from X-Sect.)
CL4 ASPHALT SURFACE 9.5C (PG 64-22)	30mm DEPTH

(NEW CONSTRUCTION)

DGA BASE	150mm DEPTH
CL3 ASPHALT BASE 19E (PG 64-22)	260mm DEPTH (100mm + 100mm+60mm)
CL4 ASPHALT SURFACE 9.5C (PG 64-22)	30mm DEPTH

SHOULDERS:

DGA BASE	FULL DEPTH
ASPHALT BASE CLASS I (PG 64-22)	60mm DEPTH
ASPHALT SURFACE CL I-O (PG 64-22)	30mm DEPTH

ASPHALT SEAL (2 APPLICATIONS):

EMULSIFIED ASPHALT RS-2	1.3 KG/SQ M
ASPHALT SEAL AGGREGATE	10.8 KG/SQ M (SIZE NO. 8 OR 9M)

① Shoulder Shall Be Widened 0.6m Where Guardrails Required

② Asphalt Seal Required From Outside Edge of Paved Shoulder to a Point 0.6m Down the Ditch or Fill Slope.

SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER

TYPICAL SECTION SHEET

DATE
DATE
DATE

PREPARED BY
CHECKED BY
APPROVED BY

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Cell Name: sp
22-FEB-1995 09:34

6-93
FORM NO. 2m

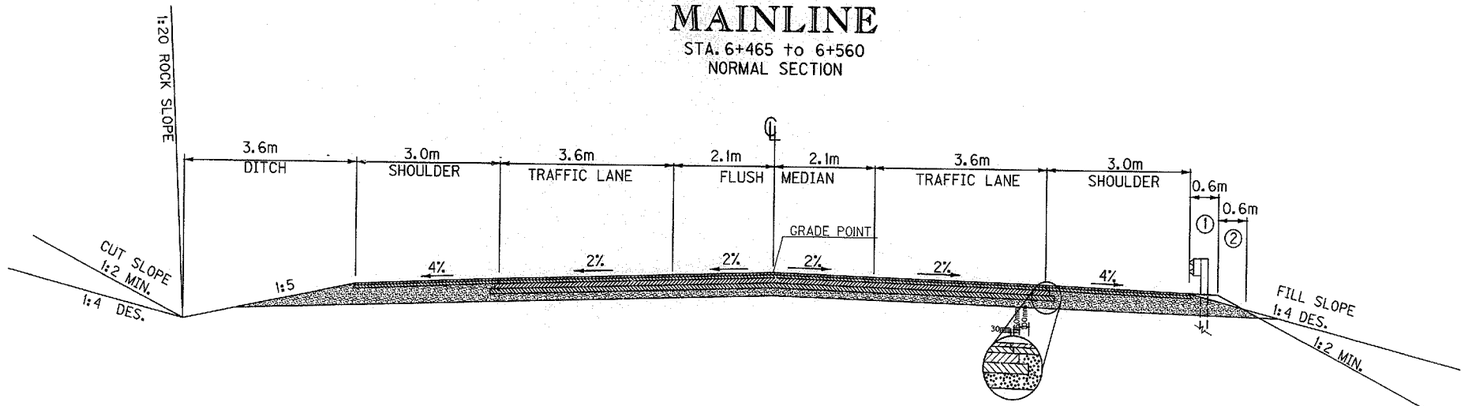
COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		2a	104

ITEM# 8-143.00

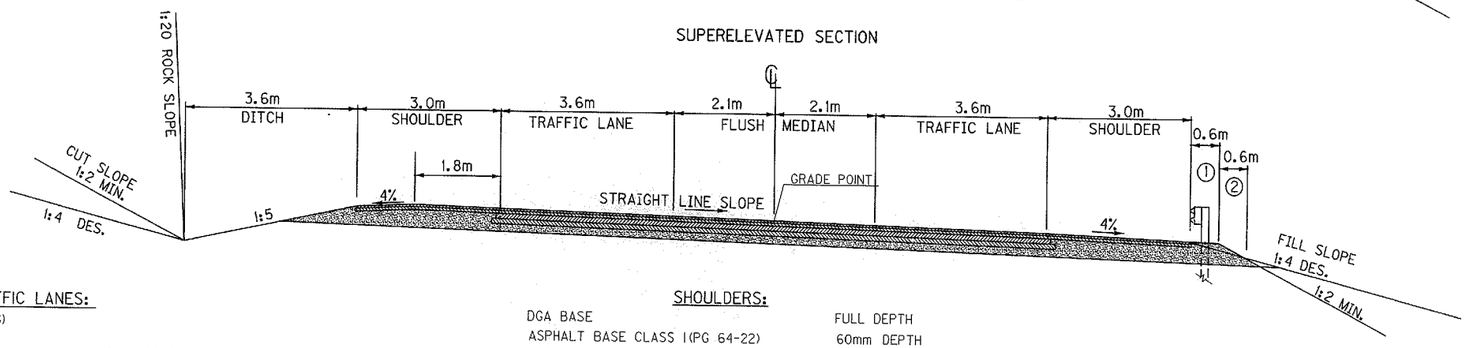
TYPICAL SECTIONS

MAINLINE

STA. 6+465 to 6+560
NORMAL SECTION



SUPERELEVATED SECTION



MAINLINE TRAFFIC LANES:

(WIDENING)

DGA BASE	150mm DEPTH
CL3 ASPHALT BASE 19E (PG 64-22)	260mm DEPTH (100mm + 100mm+60mm)

(OVERALL)

ASPHALT MIX LEVEL & WEDGE (PG64-22)	M TON (Est. from X-Sect.)
CL4 ASPHALT SURFACE 9.5C (PG 64-22)	30mm DEPTH

(NEW CONSTRUCTION)

DGA BASE	150mm DEPTH
CL3 ASPHALT BASE 19E (PG 64-22)	260mm DEPTH (100mm + 100mm+60mm)
CL4 ASPHALT SURFACE 9.5C (PG 64-22)	30mm DEPTH

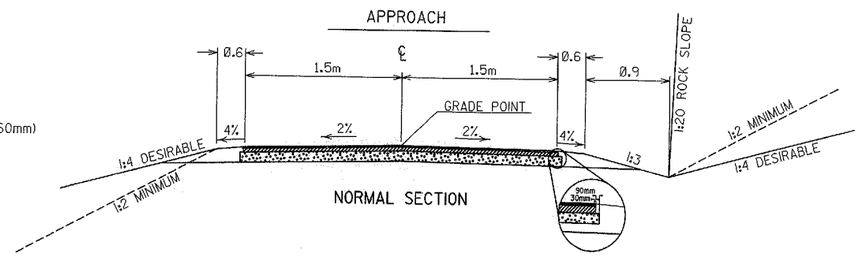
SHOULDERS:

DGA BASE	FULL DEPTH
ASPHALT BASE CLASS I (PG 64-22)	60mm DEPTH
ASPHALT SURFACE CL I-O (PG 64-22)	30mm DEPTH

ASPHALT SEAL (2 APPLICATIONS):

EMULSIFIED ASPHALT RS-2	1.3 KG/SQ M
ASPHALT SEAL AGGREGATE	10.8 KG/SQ M (SIZE NO. 8 OR 9M)

APPROACH



NORMAL SECTION

DGA BASE	100mm DEPTH
ASPHALT BASE CLASS I (PG 64-22)	90mm DEPTH
ASPHALT SURFACE CL I-20/30 (PG 64-22)	30mm DEPTH

① Shoulder Shall Be Widened 0.6m Where Guardrail is Required

② Asphalt Seal Required From Outside Edge of Paved Shoulder to a Point 0.6m Down the Ditch or Fill Slope.

SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER

TYPICAL SECTION SHEET

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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22-FEB-1999 10:48

6-93
FORM NO. 2m

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Rockcastle		2b	104

ITEM NO. 8-143.00

GENERAL SUMMARY

ITEM CODE	ITEM	UNIT				TOTAL PROJECT
2200	ROADWAY EXCAVATION	CU M				(A) 48,922
2545	CLEARING AND GRUBBING (B)	LP SUM				1
2351	GUARDRAIL-STEEL W BEAM-SINGLE FACE	METER				757
2391	GUARDRAIL END TREATMENT TYPE 4A	EACH				2
2360	GUARDRAIL TERMINAL SECT. NO. 1	EACH				2
2434	R/W MARKER RURAL TYPE 1	EACH				7
2726	STAKING	LP SUM				1
2242	WATER (C)	CU M				2,750
2650	MAINTAIN AND CONTROL TRAFFIC	LP SUM				1
2568	MOBILIZATION	LP SUM				1
2569	DEMOBILIZATION	LP SUM				1
6589	PAVEMENT MARKER TYPE V MONO-DIRECTIONAL (WHITE)	EACH				123
6591	PAVEMENT MARKER TYPE V BI-DIRECTIONAL (YELLOW)	EACH				237
2705	SILT CHECKS (D)	EACH				15
	CLEAN SILT CHECKS	EACH				15
2701	SILT FENCE	METER				652
	CLEAN SILT FENCE	METER				652
5985	SEEDING & PROTECTION	SQ.M.				15,000
5966	TOPDRESSING FERTILIZER	M. TON				4
2562	SIGNS	SQ.M.				45.52
6514	PAVEMENT STRIPING-PERM. PAINT 102mm	METER				8775
6510	PAVEMENT STRIPING- TEMPORARY PAINT 102mm	METER				8560
2014	BARRICADES-TYPE III	EACH				2
2381	REMOVING GUARDRAIL	METER				445
1310	REMOVING PIPE	METER				1
2625	REMOVING HEADWALL	EACH				1
5989	SPECIAL SEEDING CROWN VETCH	SQ.M.				15,200

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	MAINLINE	SHOULDERS	APPROACH	ENTRANCES	TOTAL PROJECT
	CL4 ASPHALT SURFACE 9.5C PG 64-22	M TON	1977				1977
149	ASPH CONC SURFACE CLASS I-O PG64-22	M TON		906	15	224	1145
		M TON					
190	ASPH. MIX FOR LEVEL & WEDG PG64-22	M TON	3290				3290
	CL3 ASPHALT BASE 19E PG 64-22	M TON	11978				11978
120	ASPH. CONC BASE CLASS I PG64-22	M TON		1810	39	568	14395
1	D G A BASE (1)	M TON	7221	15087	92	819	23219
20	TRAFFIC BOUND BASE (2) (E)	M TON					100
100	ASPHALT SEAL AGGREGATE	M TON		56			56
291	EMULSIFIED ASPHALT RS-2	M TON		7			7

PAVING AREAS

ITEM	MAINLINE	SHOULDERS	APPROACH	ENTRANCES		TOTAL PROJECT
	SQUARE METER					
30mm CL4 ASPHALT SURFACE 9.5C PG 64-22	28040					28040
BIT. MIX LEVEL & WEDGE PG64-22 (EST. FROM X-SECT.)	1400 CUBIC METERS ESTIMATED FROM XSECTIONS					
60mm CL3 ASPHALT BASE 19E PG 64-22	20850					33690
200mm (2 100m lifts) CL3 ASPHALT BASE 9E PG 64-22	19230					19230
75mm ASPH. CONC. BASE CL I PG64-22			221	3222		3443
100mm DGA BASE			376	3342		3718
150mm DGA BASE	19650	6158 M^3				
30mm ASPH CONC. SURF CL I-O PG64-22		12840	217	3175		16232
EMULSIFIED ASPHALT RS-2		2568				2568
ASPHALT SEAL AGGREGATE		2568				2568
60mm ASPHALT BASE CLASS I PG 64-22		12840				

NOTES

ALL BITUMINOUS CONCRETE MIXTURES SHALL BE ESTIMATED AT 2.35 kg PER sq m PER mm OF DEPTH, UNLESS NOTED OTHERWISE.

(1) ESTIMATED AT 2.45 kg PER sq m PER mm OF DEPTH.

(2) ESTIMATED AT 2.15 kg PER sq m PER mm OF DEPTH.

(A) INCLUDES EMBANKMENT BENCH

(B) APPROX. 3.3 HECTARES

(C) FOR CONTROLLING DUST ONLY

(D) SILT CHECK TYPE II

(E) FOR MAINTENANCE OF TRAFFIC ONLY

TOTAL PROJECT EARTHWORK CALCULATIONS

7,233 CU. M. COMMON
34,547 CU. M. COMMON SOLID ROCK
+ 5,182 +15% CU. M. SWELL SOLID ROCK
46,962 TOTAL AVAILABLE EXCAVATION
-36,205 TOTAL EMBANKMENT
10,757 CU. M. WASTE

36,205 CU. M. EMBANKMENT
+ 3,258 +9% CU. M. SHRINK ON EMB.
39,463 TOTAL EMBANKMENT

(A) 7,142 CU. M. EMBANKMENT BENCH

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

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22-FEB-1999 16:16

6-93
FORM NO. 2Fm

PIPE DRAINAGE SUMMARY

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Rockcastle		2c	104

ITEM NO. 8-143.00

SHEET NO.	UNIT TO BID ON	SKEW	COVER HEIGHT	DESIGN pH LEVEL	JUNCTION BOX Ac31	STORM SEWER PIPE 375mm Ac22	STORM SEWER PIPE 450mm Ac23	STORM SEWER PIPE 600mm Ac24	STORM SEWER PIPE 750mm Ac25	CULVERT PIPE 750mm Ac19	CULVERT PIPE 900mm Ac20	CULVERT PIPE 1350mm (RCP ONLY) Ac21	DROP BOX INLET TYPE 1 Ac28	DROP BOX INLET TYPE 2 Ac29	750mm S & F BOX IN-OUT Ac30	CONCRETE CLASS "A" Ac03	STEEL REINFORCEMENT Ac04	CHANNEL LINING CLASS III Ac39	ENTRANCE PIPE 450mm Ac27	ENTRANCE PIPE 375mm Ac26	CULVERT PIPE 375mm Ac18	CULVERT PIPE 600mm Ac18	REMARKS
ITEM CODE					1644	521	522	524	526	466	468	471	1490	1493	1452	8100	8150	2484	441	440	461	464	
UNIT TO BID			METER		EACH	METER							EACH			CU. M	KG	M. TON	METER				
22	LT. 5+146.440	45°LT.	4.0	M								11.6				~~2.99~~	132	21.53					
23	LT. 5+580	0°		M									1			4.81							EXTEND EXIST. CULVERT
23	LT. 5+580 TO 5+610.190	0°	3.0	M		29.2					24.08												
23	LT. 5+610.190	0°	1.8	M							~~31~~			2		7.00							
23	LT. 5+610.190 TO LT. 5+637	0°	1.5	M				27.2								PLUG EXISTING PIPE							
24	LT. 5+637	0°	1.5	M						~~41.45~~			1										
24	5+860	0°	1.5	M						~~42.2~~	53.93			1		1.29	64						
24	6+080	0°	6.0	M							~~48.3~~					3.29	165						
25	LT. 6+242	0°	1.0	M									1										
25	LT. 6+242 TO LT. 6+276	0°	1.0	M			32.2																
25	RT. 6+252	0°	1.0	M									1										
25	RT. 6+252 TO RT. 6+272	0°	1.0	M		21.95 ~~19.6~~																	
25	RT. 6+272	0°	1.0	M									1										
25	RT. 6+272 TO RT. 6+295	0°	1.0	M		21.35 ~~22.7~~																	
25	LT. 6+276	0°	1.0	M									1										
25	LT. 6+276 TO LT. 6+308	0°	2.2	M			29.26 ~~29.8~~																
26	RT. 6+295	0°	2.2	M									1										
26	LT. 6+308	0°	1.7	M										1									
26	RT. 6+295 toRT. 6+310.5	0°	1.0	M		14.63 ~~15.7~~																	
26	LT. 6+308 toRT. 6+310.5	0°	1.8	M	1				28.2 ~~15.7~~														
26	RT. 6+310.5 toRT. 6+420	0°	1.8	M					97.5 ~~111.9~~														
27	RT. 6+420	0°	1.0	M										1									
27	RT. 6+420 to LT. 6+434	0°	1.0	M					19.51 ~~15.7~~						1								
9	RT. 5+506	0°	1.0	M																			
11	RT. 6+003.50	0°	2.0	M		NOT CONSTRUCTED													~~10.0~~				
11	RT. 6+068	0°	3.0	M												~~0.57~~ 1.03	~~3.2~~ 3.6				~~11.0~~	12.19 ~~7.0~~	
11	LT. 6+015	0°	1.0	M															25.0				
11	LT. 6+100	0°	1.0	M																10.0 ~~17.0~~			
11	LT. 6+142	0°	1.0	M															~~15.0~~ ~~15.2~~	28.07			
13	LT. 6+252	0°	1.0	M																			
13	LT. 6+290	0°	1.0	M																			
	TOTALS				1	~~87.2~~ 87.73	~~62.0~~ 61.46	27.2	~~145.3~~ 145.21	~~42.2~~ 41.45	~~79.3~~ 78.01	11.6	7	5	1	~~9.17~~ 17.42	~~367.8~~ 364.6	~~21~~ 21.53	~~65.2~~ 25.0	~~27.0~~ 38.07	~~11.0~~ 0	~~7.0~~ 12.19	

PREPARED BY
CHECKED BY
APPROVED BY
DATE
DATE
DATE

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Cell Name: 36da
18-FEB-1999 18:54

6-93
FORM NO. 2Am

METRIC

5

PIPE DRAINAGE SUMMARY

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE	1999	2D	104

ITEM #08-143.00

UTILITY SUMMARY

ITEM	ITEM CODE	UNIT	QUANTITY
INSTALL 1.2m (4') DIA. PRECAST MANHOLE, FRAME & LID	9089	EACH	15
INSTALL 150mm (6") PVC SDR35 LATERAL LINE & CAP	3385	METER	20
INSTALL 200mm (8") D.I. RESTRAINED JOINT GRAVITY LINE	1095	METER	31
INSTALL 305mm (12") D.I. RESTRAINED JOINT GRAVITY LINE	1099	METER	38
INSTALL 255mm (10") PVC SDR21 FORCE MAIN	3389	METER	899
INSTALL 200mm (8") PVC SDR35 GRAVITY LINE	3387	METER	1187
INSTALL 305mm (12") PVC SDR35 GRAVITY LINE	3391	METER	24
INSTALL 355mm (14") DIA. STEEL CASING PIPE, TRENCH	1071	METER	162
INSTALL 405mm (16") DIA. STEEL CASING PIPE, TRENCH	1073	METER	47
INSTALL 460mm (18") DIA. STEEL CASING PIPE, TRENCH	1075	METER	8
INSTALL 610mm (24") DIA. STEEL CASING PIPE, TRENCH	1081	METER	43
RECONNECT EXISTING SERVICE INCLUDING LATERAL	9079	EACH	5
TIE TO EXISTING 200mm (8") PVC FORCE MAIN (DRY CONNECTION)	3468	EACH	2
TIE TO EXISTING MH W/200mm (8") GRAVITY LINE (DRY CONNECTION)	9014	EACH	3
INSTALL 1" COMBINATION AIR/VACUUM RELIEF VALVE ASSEMBLY	9074	EACH	1
INSTALL GRADE RING, ADJUST MANHOLE	1792	EACH	1
TRENCH BACKFILL, #57 STONE OR	72	m^3	284
FLOWABLE FILL	2220	m^3	284
INSTALL WATER-RESISTANT BOLTED MANHOLE LID		EACH	1
REMOVE EXISTING GREASE TRAP, TRAPPED MANHOLE	1787	EACH	1
INSTALL 200mm (8") GATE VALVE & BOX	3528	EACH	2
PAVEMENT RESTORATION	9081	m^2	20
REMOVE & RESET RIGHT OF WAY FENCE	2256	METER	5
REMOVE 1.2m (4') DIA. PRECAST MANHOLE SECTION & LID	1787	EACH	17
INSTALL 610mm (24") DIA. STEEL CASING PIPE, BORE & PLUG	1081	METER	33

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

FILE: SUMMARY.DWG
DATE: 22-01-99

6-93
FORM NO. 3Am

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		2E	104

8-0143.00

GENERAL NOTES

PROPOSAL ATTACHMENTS

SPECIAL NOTE FOR FABRIC WRAPPED BACKFILL DRAIN MATERIALS (1-1-99)

SPECIAL NOTE FOR MINERAL ADMIXTURES IN PORTLAND CEMENT CONCRETE (1-1-99)

SPECIAL NOTE FOR SUPERPAVE MIXTURES (1-1-99)

THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT.

DETAIL SHEETS

ANY STANDARD DRAWINGS REFERRED TO IN THE PLANS OR PROPOSAL THAT ARE NOT ATTACHED AS HALF-SIZE SHEETS HAVE BEEN INCLUDED ELSEWHERE IN THE PLANS AS FULL-SIZE DETAIL SHEETS.

N. G. S. (U. S. G. S.) BENCH MARKS

THE CONTRACTOR IS NOT TO DISTURB N. G. S. (U. S. G. S.) BENCH MARKS IN ANY MANNER UNLESS DIRECTED TO DO SO BY THE ENGINEER.

UTILITIES (HAZARDOUS OR FLAMMABLE MATERIALS)

THE CONTRACTOR IS ADVISED TO EXERCISE CAUTION IN HIS OPERATIONS IN AREAS WHERE PLANS INDICATE THE PRESENCE OF A GAS LINE OR OTHER LINES CARRYING HAZARDOUS MATERIAL.

TRAFFIC CONTROL ITEMS

UNLESS OTHERWISE DIRECTED, ALL SALVAGABLE TRAFFIC CONTROL ITEMS, DEVICES, MATERIALS AND INCIDENTALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHEN NO LONGER NEEDED FOR MAINTAINING AND CONTROLLING TRAFFIC DURING CONSTRUCTION.

NOTICE - CAUTION - CLASSIFICATION

WITHOUT REGARD TO THE MATERIALS ENCOUNTERED, ALL ROADWAY AND DRAINAGE EXCAVATION SHALL BE UNCLASSIFIED AND SHALL BE DESIGNATED AS 'ROADWAY EXCAVATION'. IT SHALL BE DISTINCTLY UNDERSTOOD THAT ANY REFERENCE TO ROCK, EARTH, OR ANY OTHER MATERIAL ON THE PLANS OR CROSS-SECTIONS, WHETHER IN NUMBERS, WORDS, LETTERS OR LINES, IS SOLELY FOR THE DEPARTMENT'S INFORMATION AND IS NOT TO BE TAKEN AS AN INDICATION OF CLASSIFIED EXCAVATION OR THE QUANTITY OF EITHER ROCK, EARTH OR ANY OTHER MATERIAL INVOLVED. THE BIDDER MUST DRAW HIS OWN CONCLUSION AS TO THE CONDITIONS TO BE ENCOUNTERED. THE DEPARTMENT DOES NOT GIVE ANY GUARANTEE AS TO THE ACCURACY OF THE DATA AND NO CLAIM WILL BE CONSIDERED FOR ADDITIONAL COMPENSATION IF THE MATERIALS ENCOUNTERED ARE NOT IN ACCORD WITH THE CLASSIFICATION SHOWN.

EROSION CONTROL

SEED MIXTURE NO. 1 SHALL BE USED.

ASPHALT PAVEMENT RIDEABILITY

PAVEMENT RIDEABILITY REQUIREMENTS, IN ACCORDANCE WITH SECTION 412 OF THE STANDARD SPECIFICATIONS, SHALL APPLY ON THIS PROJECT.

COMPACTION OF ASPHALT MIXTURES

THE CONTRACTOR IS ADVISED THAT THE COMPACTION OF ASPHALT MIXTURES FURNISHED FOR MAINLINE USAGE AT 25 MM (ONE INCH) OR GREATER ON THIS PROJECT WILL BE ACCEPTED BY OPTION A ACCORDING TO SUBSECTIONS 402.03.02 AND 403.03.10 OF THE STANDARD SPECIFICATIONS. THE COMPACTION OF ALL OTHER ASPHALT MIXTURES WILL BE ACCEPTED BY OPTION B.

PAVED SHOULDERS AT INTERSECTING ROADS

THE SHOULDERS ON THIS PROJECT WITHIN THE LIMITS SHOWN ON THE CURRENT EDITION OF STANDARD DRAWING RPM-110 SHALL BE PAVED ON THE MAIN LINE, ROAD APPROACHES OR INTERSECTING ROADS IN ACCORDANCE WITH THE PAVED SHOULDER DESIGN SHOWN ELSEWHERE IN THESE PLANS.

STANDARD DRAWINGS FOR HEADWALLS

STANDARD DRAWINGS FOR HEADWALLS (RDH SERIES) ARE NOT ATTACHED TO THESE PLANS BUT ARE AVAILABLE IN THE SUPPLEMENT TO THE STANDARD DRAWING BOOK, WHICH MAY BE OBTAINED FROM THE MANAGEMENT SERVICES DIVISION OF THE DEPARTMENT OF HIGHWAYS IN FRANKFORT, KENTUCKY AT A COST OF $5.00 PER COPY.

PIPE REMOVAL

CONTRARY TO THE STANDARD SPECIFICATIONS, THE REMOVAL OF PIPE, WHETHER SHOWN ON THE PLANS OR NOT, IS INCIDENTAL TO THE CONTRACT.

GUARDRAIL END TREATMENT TYPE 4A

THE WIDENING OF THE EMBANKMENT TO ACCOMMODATE GUARDRAIL END TREATMENTS TYPE 4A CONSTRUCTED IN ACCORDANCE WITH APPLICABLE PLANS AND STANDARD DRAWINGS SHALL BE COMPLETED WITH ROADWAY EXCAVATION AS SHOWN IN PLANS AND/OR PROPOSAL.

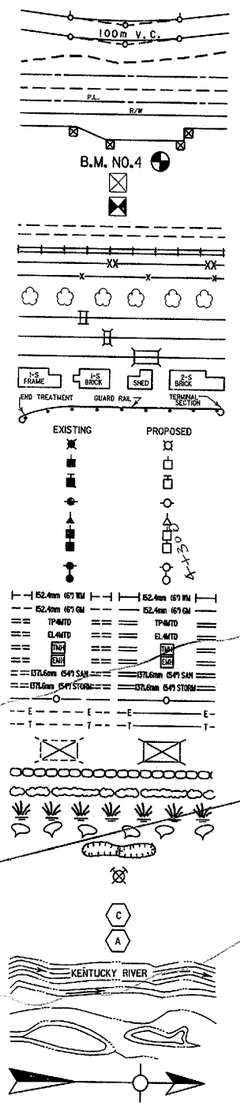
BILL GREENE
JAN-29-1999

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		3	104

ITEM # 08-143.00

CONVENTIONAL SIGNS

SURVEY LINE
GRADE LINE
GROUND LINE
COUNTY LINE
CORPORATE LIMITS
PROPERTY LINE
PROPOSED RIGHT OF WAY
RIGHT OF WAY MARKERS
BENCH MARK
RURAL RIGHT OF WAY MARKER
MUNICIPAL RIGHT OF WAY MARKER
EXISTING ROAD
RAILROAD
FENCE (CONTROLLED ACCESS)
FENCE (EXCEPT STONE AND HEDGE)
TREES
PIPE CULVERT
CULVERT
BRIDGE
BUILDINGS
GUARDRAIL
LIGHTING POLE
POWER POLE
JOINT POWER & TELEPHONE POLE
TELEPHONE & TELEGRAPH POLE
ANCHOR, POWER OR TELEPHONE
STUB POWER
STUB TELEPHONE
WATER MAIN
GAS MAIN
TELEPHONE DUCT
ELECTRIC DUCT
TELEPHONE MANHOLE
ELECTRIC MANHOLE
SANITARY SEWER
STORM SEWER
SEWER MANHOLE
DIRECT BURIAL ELECTRIC CABLE
DIRECT BURIAL TELEPHONE CABLE
TOWER
STONE FENCE
HEDGE FENCE
SWAMP OR MARSH
SPRINGS
SINKHOLE
QUARRY SITE
SILT CHECK
SILT TRAP
LARGE STREAM
SMALL STREAM
INTERMITTENT STREAM
LAKES OR PONDS
NORTH POINT



PROJECT CONTROL POINTS

PCP #	STATION	OFFSET	TYPE OF MONUMENT
1	4+419.871	LT. 123.332	IRON PIN & CAP
2	4+419.682	LT. 78.520	IRON PIN & CAP
3	4+419.528	LT. 39.335	IRON PIN & CAP
4			
5	5+017.174	LT. 152.050	IRON PIN & CAP
6	5+016.971	LT. 112.201	IRON PIN & CAP
7	5+016.714	LT. 62.581	IRON PIN & CAP
8	5+015.462	RT. 9.523	IRON PIN & CAP
9	5+278.451	RT. 34.653	IRON PIN & CAP
10	5+309.971	RT. 47.535	IRON PIN & CAP
11	5+336.257	RT. 62.356	IRON PIN & CAP
12	5+570.496	LT. 37.190	PK NAIL
13	5+584.794	LT. 57.089	PK NAIL
14	5+601.793	LT. 80.756	PK NAIL
15	5+926.058	LT. 31.338	PK NAIL
16	6+017.049	LT. 28.940	PK NAIL
17	6+384.877	RT. 32.106	PK NAIL
18	6+383.371	RT. 53.557	PK NAIL
19	6+382.291	RT. 70.028	PK NAIL
20	6+510.200	RT. 32.602	IRON PIN & CAP
21	6+533.962	RT. 41.660	IRON PIN & CAP
22	6+482.859	RT. 24.114	IRON PIN & CAP

* LEFT STA. ~~4+549~~ 4+434 BEGIN 91m TAPER

* LEFT STA. ~~4+525~~ 4+340 END TAPER BEGIN TRUCK LANE

* EXPANDED TRUCK LANE (See C.D. # 2 & Sheet # 3A)

UTILITY OWNERS

CONTEL TELEPHONE
719 N. MAIN ST.
LONDON, KY. 40741
JIM PAINTER, MGR.
(606)878-3206

MT. VERNON CITY WATER & SEWER
P.O. BOX 516
MT. VERNON, KY. 40456
DENNIS McCLURE, SUPERINTENDENT
(606)256-2879

KENTUCKY UTILITIES
ONE QUALITY STREET
LEXINGTON, KY. 40507
JOE TAKACS, ENGR.
(606)255-1461

JACKSON COUNTY RECC
P.O. BOX 307
McKEE, KY. 40447
LEE ROY COLE, MGR.
(606)287-7161

FALCON CLASSIC CABLE
4815 S. HWY 27
SOMERSET, KY. 42501
MARY FOSTER, ACTING MGR.
(606)679-1148

BM #1 SPIKE IN POWER POLE
42.580m RT. OF STA. 4+398.796
ELEV. 359.471

P.I. 4+505.364
Δ = 9°06'24" Rt.
R = 1800.000m
T = 143.351m
L = 286.098m
E = 5.699m
e = 3.2%
Runoff = 56
Runout = 35

SCALE 1:500

KENTUCKY DEPARTMENT OF HIGHWAYS
COUNTY OF
ROCKCASTLE

PROJECT STPR-4611-003
NUMBERS FD52-102-0025 015-016

19 ____ BY ____
ASST DIST ENGR FOR PRE-CONST

STA. 4+420 - 4+600

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

FILE NAME: PLAN1.DGN
Cell Library: mrroadway.cel
Cell Name: spl
16-FEB-1999 11:12

6-93
FORM NO. 3Am

METRIC

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		3A	104

ITEM # 08-143.00

LEFT STA 4+249 BEGIN 91m TAPER
LEFT STA 4+340 END TAPER BEGIN TRUCK LANE

LEFT STA. 4+434 BEGIN 91m TAPER
~~LEFT STA. 4+525 END TAPER BEGIN TRUCK LANE~~

PROJECT CONTROL POINTS

PCP #	STATION	OFFSET	TYPE OF MONUMENT
1	4+419.871	LT. 123.332	IRON PIN & CAP
2	4+419.682	LT. 78.520	IRON PIN & CAP
3	4+419.528	LT. 39.335	IRON PIN & CAP
4	———	———	———
5	5+017.174	LT. 152.050	IRON PIN & CAP
6	5+016.971	LT. 112.201	IRON PIN & CAP
7	5+016.714	LT. 62.581	IRON PIN & CAP
8	5+015.462	RT. 9.523	IRON PIN & CAP
9	5+278.451	RT. 34.653	IRON PIN & CAP
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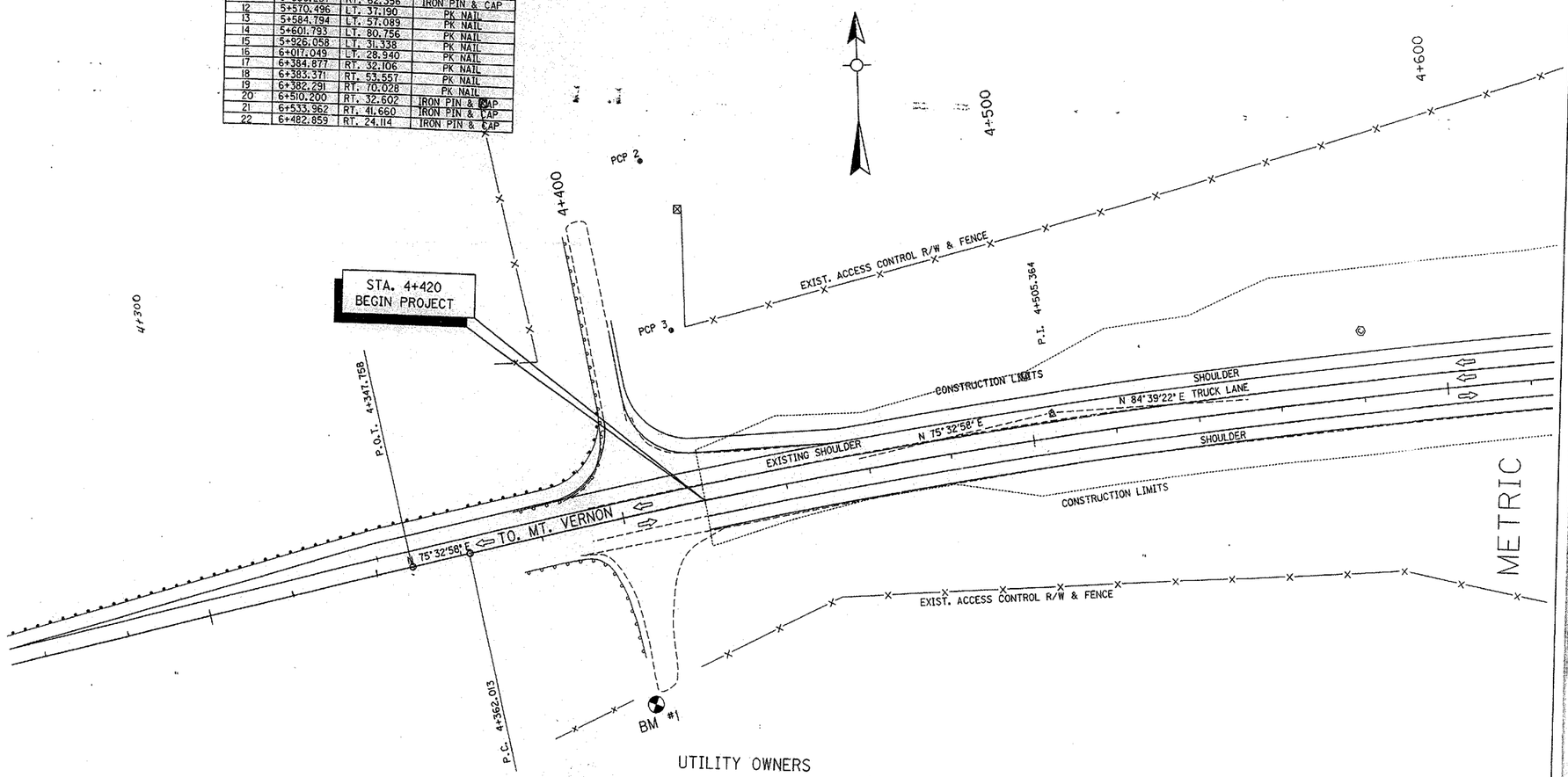
11	5+336.257	RT. 62.356	IRON PIN & CAP
12	5+570.496	LT. 37.190	PK NAIL
13	5+584.794	LT. 57.089	PK NAIL
14	5+601.793	LT. 80.756	PK NAIL
15	5+926.058	LT. 31.338	PK NAIL
16	6+017.049	LT. 28.940	PK NAIL
17	6+384.877	RT. 32.106	PK NAIL
18	6+383.371	RT. 53.557	PK NAIL
19	6+382.291	RT. 70.028	PK NAIL
20	6+510.200	RT. 32.602	IRON PIN & CAP
21	6+533.962	RT. 41.660	IRON PIN & CAP
22	6+482.859	RT. 24.114	IRON PIN & CAP



METRIC

UTILITY OWNERS

CONTEL TELEPHONE
719 N. MAIN ST.
LONDON, KY. 40741
JIM PAINTER, MGR.
(606)878-3206

MT. VERNON CITY WATER & SEWER
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(606)287-7161

FALCON CLASSIC CABLE
4815 S. HWY 27
SOMERSET, KY. 42501
MARY FOSTER, ACTING MGR.
(606)679-1148

BM #1 SPIKE IN POWER POLE
42.580m RT. OF STA. 4+398.796
ELEV. 359.471

P.I. 4+505.364
D = 9°06'24" Rt.
R = 181.000m
T = 143.351m
L = 286.098m
E = 5.699m
e = 3.2%
Runoff = 56
Runout = 35

SCALE 1:500

KENTUCKY
DEPARTMENT OF HIGHWAYS
COUNTY OF
ROCKCASTLE

PROJECT NUMBERS: STPR-4611-003; FD52-102-0025 015-016

19 ____ BY _____
ASST DIST ENGR FOR PRE-CONST

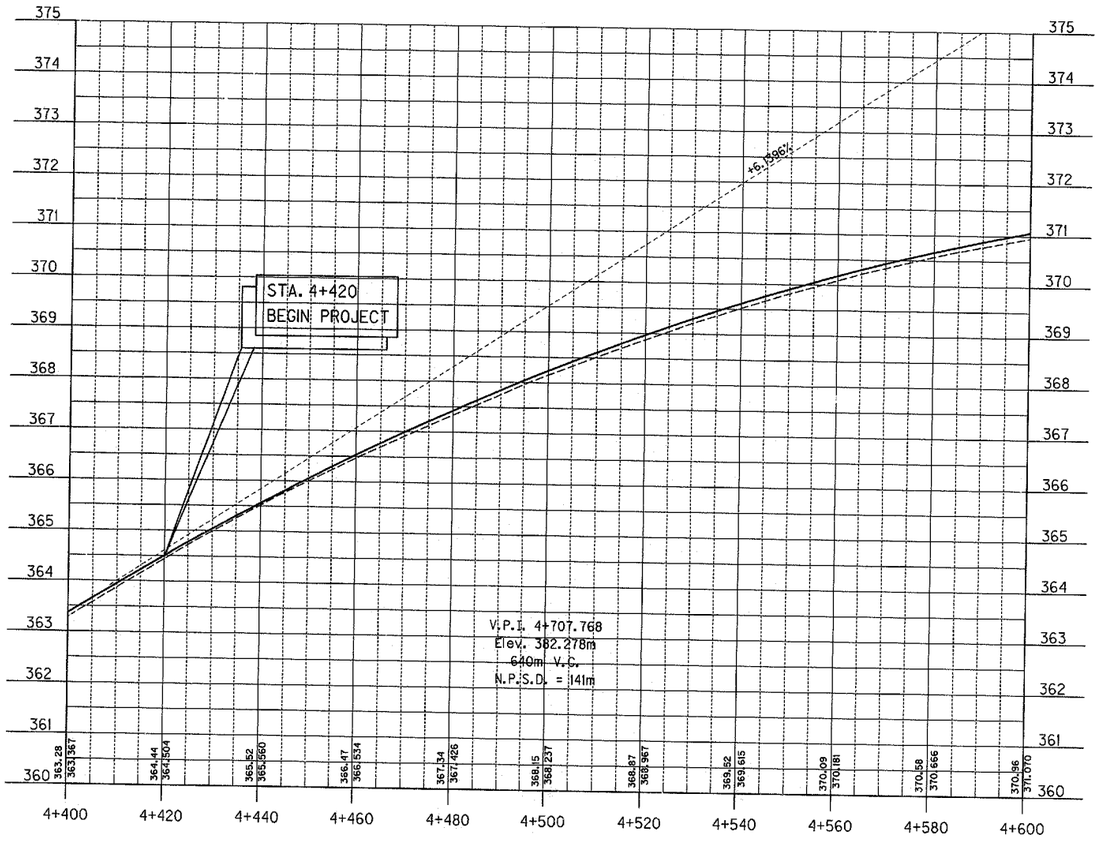
PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

File name: plan1.dgn
Cell Library: mrroadway.cel
Cell Name: sp1
DD-MMM-YYYY HH:MM

6-93
FORM NO. 3Am

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		4	104

ITEM # 08-143.00



SCALE 1:500 HOR.
1:50 VERT.

METRIC

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

FILE NAME: US25K.DGN
SAVED VIEW: PROF1
Cell Library: mroadway.cel
Cell Name: sp
16-FEB-1999 11:17

6-93
FORM NO. 2m

KENTUCKY DEPARTMENT OF HIGHWAYS
COUNTY OF
ROCKCASTLE

PROJECT NUMBERS STPR-4611-003
FD52-102-0025 015-016

19 ____ BY _____
ASST DIST ENGR FOR PRE-CONST

LEFT STA 4+942 TO 5+008 CONST.
85m STEEL W BEAM GUARDRAIL (S.F.)
WITH 1 END TREATMENT TYPE 4A AND
TIE TO EXISTING GUARDRAIL.

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		5	104

ITEM # 08-143.00

4+600

4+700

EXIST. ACCESS CONTROL R/W & FENCE

4+800

4+900

5+000

CONSTRUCTION LIMITS

SILT FENCE

R=16m

SIG

SHOULDER

N 84° 39'22" E

SHOULDER

CONSTRUCTON LIMITS

CONSTRUCTION LIMITS

P.T. 4+648.111

EXIST. ACCESS CONTROL R/W & FENCE

SCALE 1:500

STA. 4+600 - 5+000

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

FILE NAME: PLAN2.DGN
Cell Library: mroadway.cel
Cell Name: sp
16-FEB-1999 11:30

6-93
FORM NO. 2m

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		6	104

ITEM * 08-143.00

+6.1996%

-6.9056%

V.P.I. 4+707.768
Elev. 382.278m
640m V.C.
N.P.S.D. = 141m

4+600	4+620	4+640	4+660	4+680	4+700	4+720	4+740	4+760	4+780	4+800	4+820	4+840	4+860	4+880	4+900	4+920	4+940	4+960	4+980	5+000
370.96	371.26	371.53	371.70	371.80	371.78	371.67	371.52	371.26	370.91	370.50	370.00	369.44	368.80	368.04	367.19	366.30	365.31	364.23	363.08	361.88
371.070	371.391	371.631	371.790	371.867	371.863	371.777	371.609	371.360	371.030	370.617	370.124	369.548	368.891	368.153	367.333	366.432	365.448	364.384	363.238	362.010

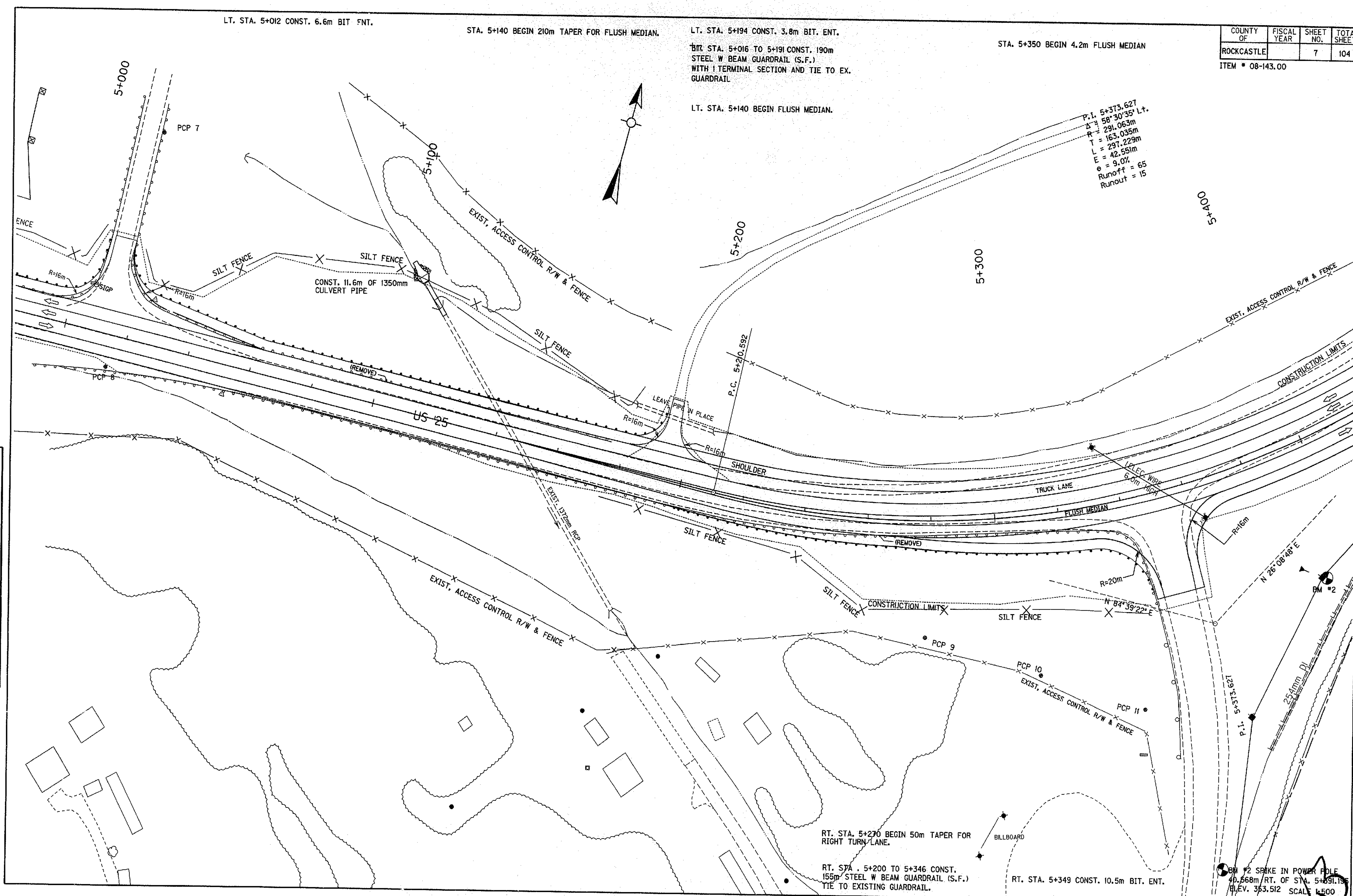
SCALE 1:500 HOR.
1:50 VERT.

METRIC

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

FILE NAME: US25M.DGN
SA-ED VIEW 2005.2
Cell Library: mroadway.cel
Cell Name: SD
16-FEB-1999 11:19

6-93
FORM NO. 2m



PREPARED BY ______ DATE ______
CHECKED BY ______ DATE ______
APPROVED BY ______ DATE ______

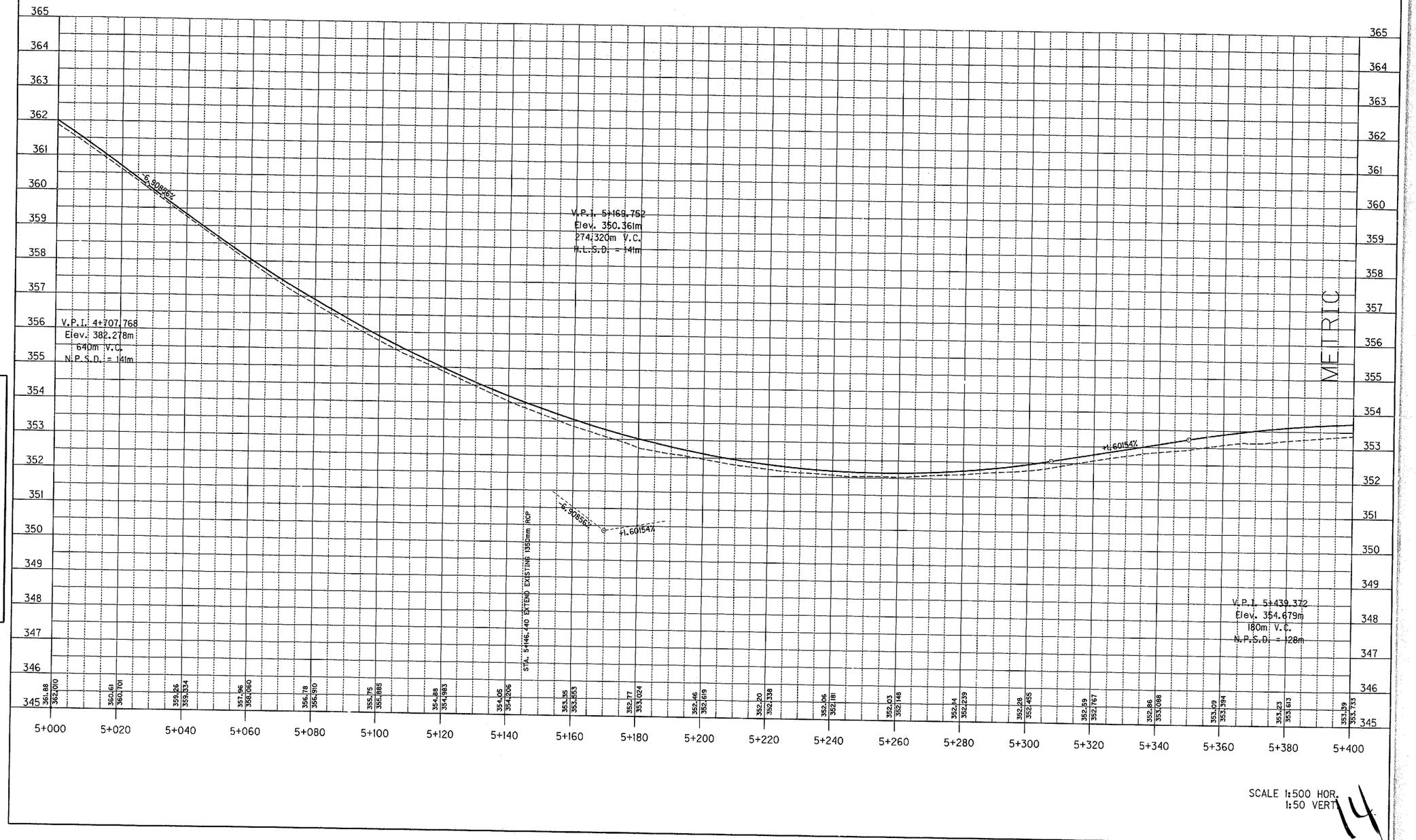
FILE NAME: PLAN3.DGN
Cell Library: mroadway.cel
Cell Name: sp
16-FEB-1999 11:31

6-93
FORM NO. 2m

STA. 5+000 - 5+400

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		8	104

ITEM # 08-143.00



SCALE 1:500 HOR.
1:50 VERT.

14

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

FILE NAME: USER: DON
Set: VIEW PROF-3
Dsn: D:\proj\mrroadway.dgn
Cell Name: SCALE
16-FEB-1999 11:24

6-93
FORM NO. 2m

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		9	104

ITEM # 08-143.00

P.I. 5+373.627
Δ = 58°30'35" Lt.
T = 291.063m
L = 163.035m
R = 287.229m
e = 42.559m
Runoff = 9.0%
Runout = 65
15

LT. STA. 5+560 CONST. 15m BIT. ENT.

LT. STA. 5+600 CONST. 15.2m GRAVEL ENT.

LT. STA. 5+632 CONST. 15m GRAVEL ENT.

5+400 5+500 5+600 5+700 5+800

EXIST. ACCESS CONTROL R/W & FENCE

WAYNE GREGORY
DAWN GREGORY (WF.)

KENNETH PILLION
MELINDA PILLION KINCER

WAYNE GREGORY
DAWN GREGORY (WF.)

1 STORY FR. RES.

1 STORY STONE RES.

SHED

TRAILER

5+497.13
-40.660

5+564.10
-41.279

5+507.82

P.T.

PCP 14

PCP 13

PCP 12

5+570.19
-28.921

5+658.34
-28.920

5+658.22
-26.214

EXIST. R/W

CONSTRUCTION LIMITS

US 25

SHOULDER

TRUCK LANE

FLUSH MEDIAN

SHOULDER

R=25m

R=15m

ROADSIGNS

457mm RCP

600 mm

315 mm

REMOVE

R=10m

W=2.4

TEL. WIRES
5.00m HIGH

203mm PVC GRAVITY SEWER

203mm PVC FORCE MAIN SEWER

(REMOVE)

5+481.161
9.850

5+498.654
9.231

REMOVE
457mm RCP

N32°39'56"E
44.934 (147.62')

EXIST. R/W USE
(DB 171 PG 95)

5+511.206
13.409

600 mm

CONSTRUCTION LIMITS

5+653.791
4.266

900 mm

S30°08'25"W
65.893 (216.02')

EXISTING PERMANANT EASEMENT FOR UTILITIES
(DB 171 PG 95)
TO BE CONSTRUCTED BY OTHERS

5+654.267
13.411

PERMANANT EASEMENT
TO BE CONSTRUCTED BY OTHERS

S66°50'12"E

5+654.528
18.411

5+720.000
18.000

5+729.000
17.940

5+729.000
22.420

5+737.000
17.887

5+737.000
23.000

5+750.003
22.000

5+785.000
22.000

TEMPORARY EASEMENT FOR
BUILDING REMOVAL

PERMANANT EASEMENT

S.S.C. DEVELOPMENT COMPANY

2

1 STORY BRICK COMM.

N 26° 08' 48" E

EXIST. ACCESS CONTROL R/W & FENCE

ROCKHILL ONE INC.

5+454.750
16.353

5+497.374
16.564

5+510.020
18.409

PCP

1 STORY FR. RES.

ROCKHILL ONE INC.

RT. STA. 5+506 CONST. 5.3m BIT. ENT.
WITH 10m 450MM ENT. PIPE.

SCALE 1:500

STA. 5+400 - 5+800

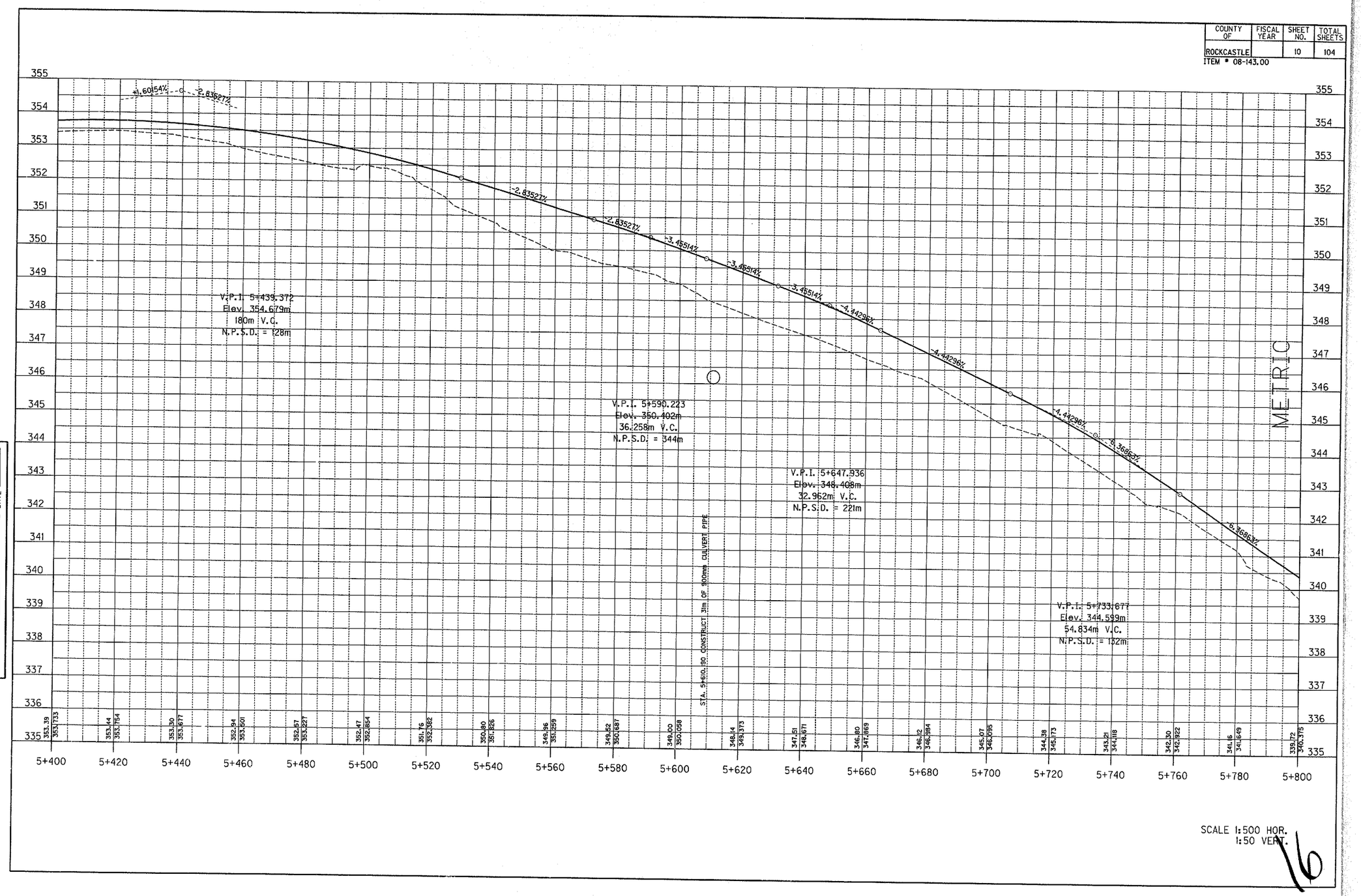
PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

FILE NAME: PLAN4.DGN
Cell Library: mroadway.cel
Cell Name: sp
22-FEB-1999 16:09

6-96
FORM NO. 2m

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		10	104

ITEM # 08-143.00



SCALE 1:500 HOR.
1:50 VERT.

16

PREPARED BY DATE
CHECKED BY DATE
APPROVED BY DATE

FILE NAME: US25M.DGN
SAVED VIEW: PROF4
Cell Library: mroadway.cel
Cell Names: sp
16-FEB-1999 11:25

6-93
FORM NO. 2m

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		11	104

ITEM # 08-143.00

LT. STA. 6+015 CONST.15m BIT. ENT. WITH 25m OF 450mm ENT. PIPE

LT. STA. 6+100 CONST. 3m GRAVEL. ENT. WITH 10m of 375mm ENT. PIPE

LT. STA. 6+115 CONST. 15.2m BIT. ENT.

LT. STA. 6+142 CONST. 12.5m BIT. ENT. WITH 17m OF 375mm ENT. PIPE

JACK HOL

5+800 5+900 6+000 6+100 6+200

3 STORY BRICK COMM.

POOL

BILLBOARD

PAUL McNEW

5

6

JOSEPH E. LAMBERT
JAMES H. LAMBERT

1STORY BRICK RES.

1STORY BRICK COMM.

GUY C. MARTIN
DOROTHY MARTIN (WF.)

PCP 15 PCP 16

5+962.81 -26.154

5+964.20 -32.239

6+095.7 -24.363

6+096.958 21.348

6+158.247 18.046

6+160.191 -35.297

6+212.985 -40.998

6+207.158 -29.876

6+191.709 -17.719

6+189.830 15.617

6+189.776 20.000

6+211.787 15.095

6+211.353 20.000

6+218.000 19.362

6+189.53 39.616

6+160.329

6+086.811

EXIST. R/W

B.TOP

REMOVE 457mm RCP

450mm

CONSTRUCTION LIMITS

203mm PVC GRAVITY SEWER

N 26° 08' 48" E

N 40° 41' 50" E

US 25

254mm DI

SHOULDER

TRUCK LANE

FLUSH MEDIAN

381mm CMP

5+889.260 4.268

5+892.308 4.268

5+955.873 4.269

5+957.565 28.680

5+958.574 43.242

5+889.614 16.870

5+892.522 11.885

5+889.474 11.885

5+857 28

5+863 28

4.987 (16.36')

73.83 (242.23') N47°04'28"E

169.618 (556.49') N25°45'54"E

S65°27'47"E

PERMANENT EASEMENT

9 LESSOR
JAMES W. LAMBERT
CARTER HOSKINS
DWIGHT HOSKINS
DONITA HOSKINS (WF.)
LESSEE
McDONALD'S CORP.

3
JAMES W. LAMBERT
SAM HOSKINS

4
GUY C. MARTIN
DOROTHY MARTIN (WF.)

105.548 (346.29') N22°48'22"E

P.C. 6+012.454

6+067.281 34.669

APPR. STA. 0+00= MAINLINE STA. 6+154.91

STA. 0+013.12 BEGIN APPR. CONSTR.

P.I. 6+160.329

EXIST. R/W

203mm PVC FORCE MAIN SEWER

600mm RCP 6.0m

375mm RCP 4.9m

Ⓐ 3.048 (10.00') N26°08'49"E

Ⓑ 7.620 (25.00') S65°27'47"E

Ⓒ 3.048 (10.00') S26°08'49"W

Ⓓ 7.620 (25.00') N65°27'47"W

RT. STA. 5+880 TO 6+204 CONST. 327m STEEL W BEAM GUARDRAIL (S.F.) WITH END TREATMENT TYPE 4A AND I TERMINAL SECTION NO. 1.

RT. STA. 6+003.50 EXTEND 375mm RCP 11m & CONSTRUCT I S & F HEADWALL

RT. STA. 6+068.00 EXTEND 600mm RCP 7m & CONSTRUCT I S & F HEADWALL

P.I. 6+086.811
Δ = 14°33'02" Rt.
R = 582.125m
T = 74.317m
L = 147.834m
E = 4.725m
e = 5.5%
Runoff = 44
Runout = 16

SCALE 1:500

STA. 5+800 - 6+200

PREPARED BY
CHECKED BY
APPROVED BY
DATE
DATE
DATE

FILE NAME: PLANS.DGN
Cell Library: mroadway.cel
Cell Name: sp
16-FEB-1999 11:34

6-93
FORM NO. 2m

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		12	104

ITEM # 08-143.00

Approach Left
Station 6+154.91

STA. 0+074
END APPROACH

STA. 0+013.12
BEGIN APPROACH

V.P.I. 0+019.466
Elev. 322.953m
5m V.C.
H.L.S.D. = 13m

V.P.I. 0+063.867
Elev. 328.281m
5m V.C.
N.P.S.D. = 83m

Station 0+17.37 Const 6m of 375mm pipe

V.P.I. 6+024.212
Elev. 325.851m
100m V.C.
H.L.S.D. = 141m

V.P.I. 5+948.903
Elev. 330.892m
40m V.C.
N.P.S.D. = 595m

STA. 5+860 CONSTRUCT 42.2m 750mm CULVERT PIPE

STA. 6+080 CONSTRUCT 48.3m CULVERT PIPE OF 900mm

V.P.I. 6+108.801
Elev. 323.081m
40m V.C.
H.L.S.D. = Unlimited

V.P.I. 6+181.963
Elev. 321.749m
30m V.C.
H.L.S.D. = Unlimited

-6.366637%
-6.719852%
-6.334267%
-1.724457%
-1.424457%
+5.475291%
+12.000%
+4.000%

Elevation

Station

METRIC

SCALE 1:500 HOR.
1:50 VERT.

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

FILE NAME: US25N.DGN
SAVED WITH: PROPS
Cell Library: mrcadcwy.cel
Cell Name: SD
16-FEB-1995 11:26

6-53
FORM NO. 2m

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		18	104

ITEM # 08-143.00

LT. STA. 6+252 CONST. 15M BIT. ENT.
WITH 18m 450mm ENT. PIPE

LT. STA. 6+290 CONST. 15.2m BIT. ENT.
WITH 21m 450mm ENT. PIPE.

LT. STA. 6+316 CONST. 6.5m BIT. ENT.

JACK HOLT

CEMETERY

JACK HOLT

P.I. 6+409.682
Δ = 38°28'24" Lt.
R = 470.000m
T = 164.008m
L = 315.598m
E = 27.794m
e = 6.3%
Runoff = 60
Runoff = 20

1STORY COMM.

STA. 6+560
END PROJECT

6+600

6+500

6+400

6+300

6+200

6

7

8

FR. GAR.

LAMBERT
LAMBERT

TORY
CK RES.

JOSEPH E. LAMBERT
JAMES H. LAMBERT

P.L.

6+212.985
-40.998

END STA. 0+074

CURRY OIL CO.

1STORY COMM.

6+207.159
-29.876

6+217.926
-29.819

6+245.674

6+304.93
-46.004

6+191.709
-17.719

6+234.29
-29.733

EXIST. R/W

EXIST. CONTROL ACCESS FENCE

SHOULDER

457mm CMP

450 mm

SHOULDER
MAIN SEWER

CONSTRUCTION EASEMENT

203mm PVC GRAVITY SEWER

305mm PVC WATER LINE

US 25

150mm PVC WATER LINE

7170.799
N 47°E
211.787
095
1.353
00

6+218.000
19.362

6+273.182
19.697

AIR PUMP

GAS VENTS

6+273.40
21.035

CANOPY

6+332.23
19.940

N 40°41'30" E

PCP 17

CB & R INVESTMENTS INC.

1STORY COMM.

JAMES E. HAMMONS
ELIZABETH A. HAMMONS

1STORY BLOCK COMM.

1STORY BRICK COMM.

6+409.689

PCP 18

H.T. HARDY III
BRENDA S. HARDY

PCP 19

EXIST. CONTROL ACCESS R/W & FENCE

RT. STA. 6+230 CONST. 12.5m BIT. ENT.
RT. STA. 6+265 CONST. 10.5m BIT. ENT.

RT. STA. 6+282 CONST. 15.2m BIT. ENT.
RT. STA. 6+313 CONST. 24m BIT. ENT.

CB & R INVESTMENTS INC.

2 STORY BRICK COMM.

BM #3 SPIKE IN POWER POLE
34.171m RT. OF STA. 6+432.797
ELEV. 315.262

PCP 22

PCP 20

PCP 21

I-75 TO KNOXVILLE

I-75 TO LEXINGTON

SCALE 1:1000

STA. 6+200 - 6+560

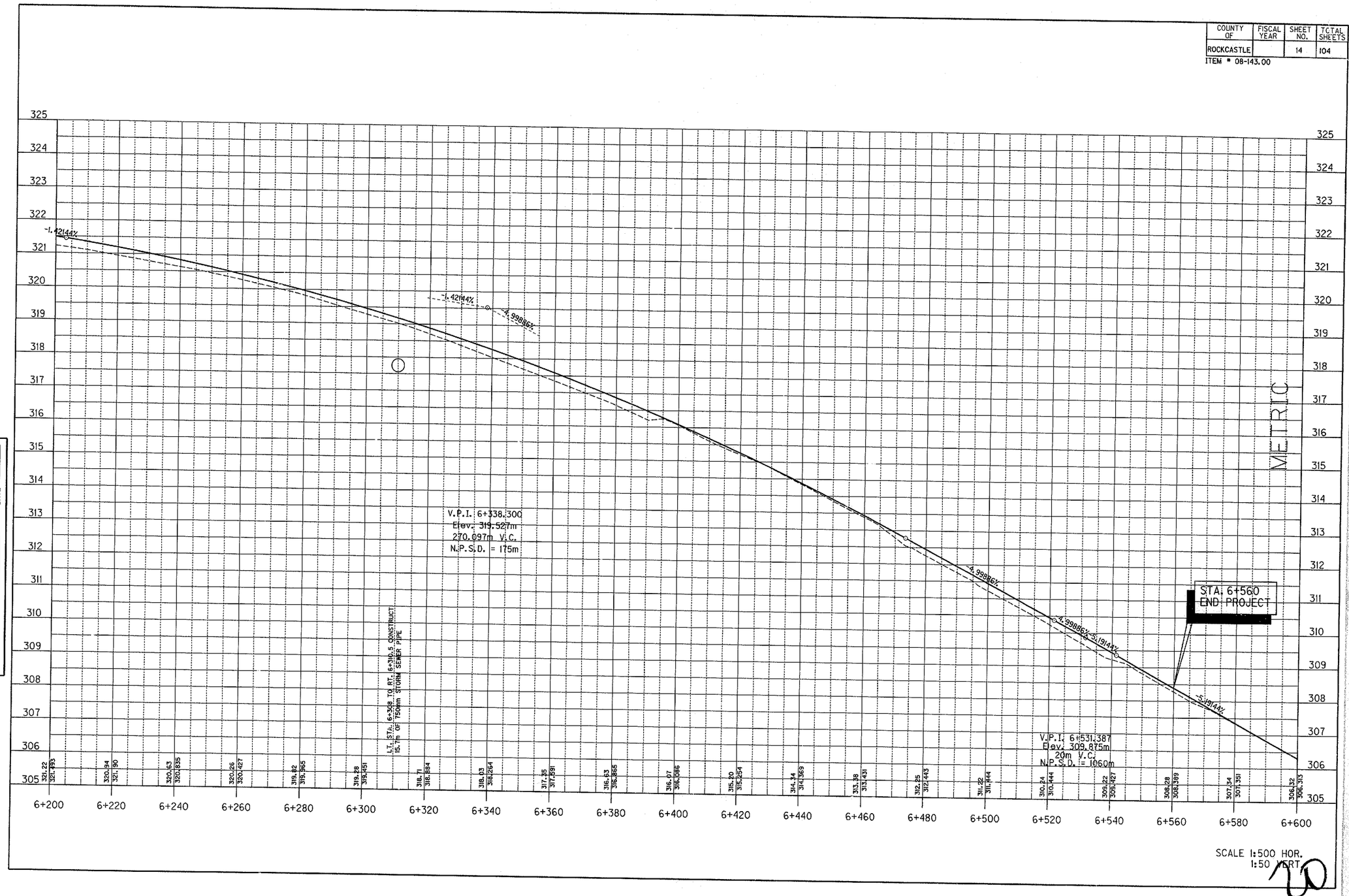
PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

FILE NAME: PLANS.DGN
Cell Library: mroaddwgv.cel
Cell Name: sp
16-FEB-1999 11:36

6-93
FORM NO. 2m

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		14	104

ITEM # 08-143.00

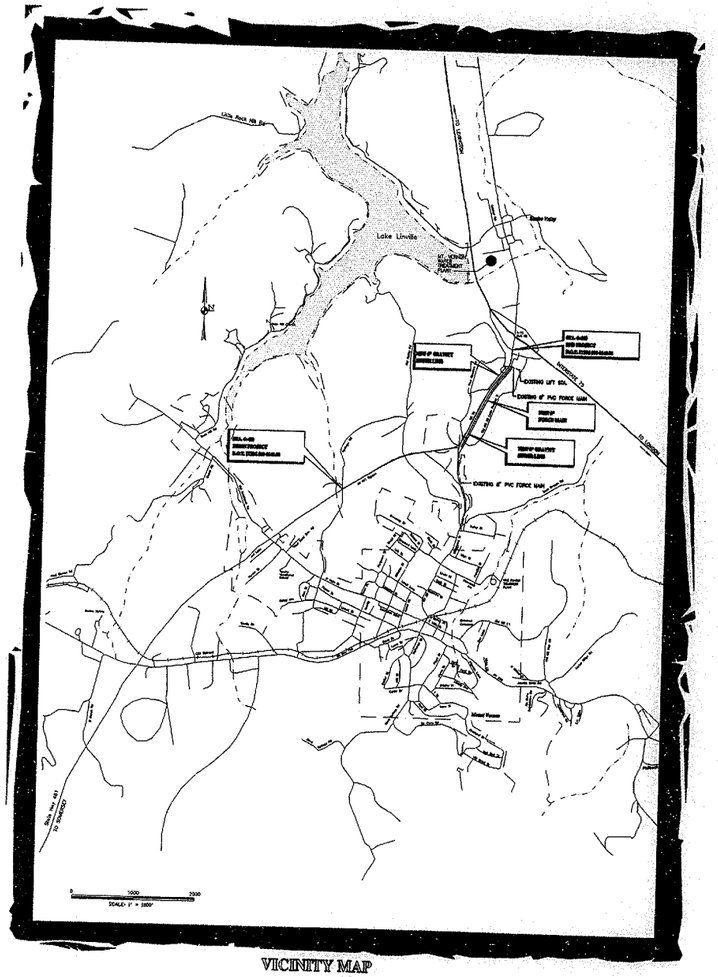


PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

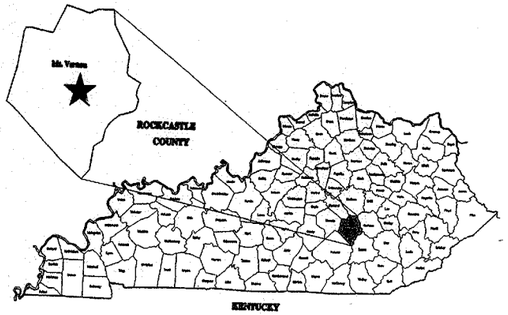
FILE NAME: US25M.DGN
SAVED VIEW: PROF6
Cell Library: mrdotvy.cel
Cell Name: GP
16-FEB-1999 11:28

6-93
FORM NO. 2m

ROCKCASTLE 14A 104
8-143.00



VICINITY MAP
SCALE: 1" = 1000'



GENERAL NOTES:

1. DIMENSIONS OF EXISTING STRUCTURES, EQUIPMENT, ETC. SHALL BE FIELD CONFIRMED BY THE CONTRACTOR. WHERE CRITICAL DIMENSIONS FOR INSTALLATION OF PROPOSED EQUIPMENT ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL CONFIRM THESE DIMENSIONS FOR ACTUAL EQUIPMENT FURNISHED. ALL KNOWN DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
2. THE CONTRACTOR SHALL USE ALL POSSIBLE CARE DURING EXCAVATION ON THIS PROJECT SO AS NOT TO DISTURB ANY EXISTING UTILITY WHETHER SHOWN ON PLANS OR NOT. ANY UTILITY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING HIS CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
3. THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY TO THE AREA WITHIN EXISTING EASEMENTS AND CONSTRUCTION LIMITS, UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER.
4. THE CONTRACTOR WILL BE SOLELY LIABLE FOR ANY WORK HE PERFORMS OUTSIDE OF LEGAL EASEMENTS OR CONSTRUCTION LIMITS.
5. THE CONTRACTOR MUST CONTACT ALL UTILITY OWNERS AND HAVE THEM FIELD LOCATE THEIR EXISTING LINES PRIOR TO ANY CONSTRUCTION ACTIVITY.
6. THE CONTRACTOR SHALL OBTAIN PERMISSSION OF THE OWNER PRIOR TO BEGINNING ANY CONSTRUCTION THAT MAY RESULT IN INTERRUPTING OPERATIONS OF EXISTING UTILITIES.
7. ALL EXPOSED SURFACES DISTURBED BY DEMOLITION SHALL BE RESTORED TO MATCH EXISTING SURROUNDING SURFACE.

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
APPROX.	APPROXIMATE
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
B.M.	BENCH MARK
B'FLY	BUTTERFLY
BOTT	BOTTOM
CHEM	CHEMICAL
C.I.	CAST IRON
C.I.S.P.	CAST IRON SOIL PIPE
℄	CENTERLINE
CONC.	CONCRETE
CHLOR	CHLORINE
CL	CLEARANCE
C.W.	COLD WATER
CU	COPPER
C.O.	CLEANOUT
CONT	CONTINUATION
DGA	DENSE GRADED AGGRAGATE
D.I.	DUCTILE IRON
DISCH	DISCHARGE
D.I.M.J.	DUCTILE IRON MECHANICAL JOINT
D.I.P.E.	DUCTILE IRON PLAIN END
D.I.P.	DUCTILE IRON PIPE
DEMO	DEMOLITION
DIAG	DIAGONAL
EFFL	EFFLUENT
E.F.	EACH FACE
ELC	ELECTRICAL
EL	ELEVATION
EQUIP	EQUIPMENT
E.W.	EACH WAY
EXIST	EXISTING
EXT	EXTERIOR
F.D.	FLOOR DRAIN
F.F.	FINISHED FLOOR
FLG	FLANGE
FL	FENCELINE
FLOC	FLOCCULATOR
GD	GRADE
DIP	DUCTILE IRON PIPE
H.B.	HOSE BIBB
H	HEIGHT
H.W.	HOT WATER
INFL.	INFLUENT
INV.	INVERT
LAV	LAVATORY
L	LENGTH
LOAD'G	LOADING
LNG	LONG
M.J.	MECHANICAL JOINT
MIN.	MINIMUM
MTD.	MOUNTED
MAX.	MAXIMUM
NO.	NUMBER
N.P.T.	NATIONAL PIPE THREAD
NRS	NONRISING STEM
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OVERALL DIMENSION
OPER	OPERATOR
OPNG	OPENING
PE	POLYETHYLENE
P.E.	PLAIN END
PL	PLATE
PROP	PROPOSED
PVC	POLYVINYL CHLORIDE
PRV	PRESSURE RELIEF VALVE
PRESS	PRESSURE
REDUC	REDUCING
RED	REDUCER
REINF.	REINFORCING
REFRIG.	REFRIGERATOR
RM	ROOM
SAN	SANITARY
ACH.	SCHEDULE
SECT	SECTION
SED	SEDIMENTATION
SEW	SEWER
SHT	SHEET
SOL	SOLUTION
SPEC'S	SPECIFICATION'S
SQ.	SQUARE
S.S.	STAINLESS STEEL
ST	STEEL TUBE
STL.	STEEL
STN.	STAINLESS
SURF	SURFACE
SVCS	SERVICES
T	THICK
T.O.C.	TOP OF CONCRETE
TYP.	TYPICAL
TRANS	TRANSITION
VAC	VACUUM
VAL	VALVE
VTR	VENT THRU ROOF
VERT	VERTICAL
WD	WOOD
W.C.	WATER CLOSET
W/	WITH
W.L.	WATER LEVEL
W.S.E.	WATER SURFACE ELEVATION
WWF	WOVEN WIRE FENCE

21

LT. STA. 5+012 CONST. 6.6m BIT. ENT.

STA. 5+140 BEGIN 210m TAPER FOR FLUSH MEDIAN.

LT. STA. 5+194 CONST. 3.8m BIT. ENT.

LT. STA. 5+016 TO 5+191 CONST. 190m STEEL W BEAM GUARDRAIL (S.F.) WITH 1 TERMINAL SECTION AND TIE TO E GUARDRAIL

LT. STA. 5+140 BEGIN FLUSH MEDIAN.

SUMMARY STA. 5+000 TO STA. 5+400

Item Code	Action	Item	Estimated Quantity	Unit	Previous Sheet	Cummulative Total
9089	INSTALL	1.2m (4') DIA. PRECAST MANHOLE, FRAME & LID		EACH		
3385	INSTALL	150mm (6") PVC SDR35 LATERAL LINE & CAP		METER		
1095	INSTALL	200mm (8") D.I. RESTRAINED JOINT GRAVITY LINE		METER		
1099	INSTALL	305mm (12") D.I. RESTRAINED JOINT GRAVITY LINE		METER		
3389	INSTALL	255mm (10") PVC SDR21 FORCE MAIN		METER		
3387	INSTALL	200mm (8") PVC SDR35 GRAVITY LINE		METER		
3391	INSTALL	305mm (12") PVC SDR35 GRAVITY LINE		METER		
1071	INSTALL	355mm (14") DIA. STEEL CASING PIPE, TRENCH		METER		
1073	INSTALL	406mm (16") DIA. STEEL CASING PIPE, TRENCH		METER		
1075	INSTALL	460mm (18") DIA. STEEL CASING PIPE, TRENCH		METER		
1081	INSTALL	610mm (24") DIA. STEEL CASING PIPE, TRENCH		METER		
1081	INSTALL	610mm (24") DIA. STEEL CASING PIPE, BORE & PLUG	33	METER		33
9070	INSTALL	RECONNECT EXISTING SERVICE INCLUDING LATERAL		EACH		
3468	INSTALL	TIE TO EX. 300mm (8") PVC FORCE MAIN (Dry Connection)		EACH		
9014	INSTALL	TIE TO EX. MH ||200mm (8") GRAVITY (Dry Connection)		EACH		
9074	INSTALL	1" COMBINATION AIR/VACUUM RELIEF VALVE ASSEMBLY		EACH		
1792	INSTALL	GRADE RING, ADJUST MANHOLE		EACH		
T2	INSTALL	TRENCH BACKFILL, #57 STONE OR		m^3		
2220		FLOWABLE FILL		m^3		
	INSTALL	WATER-RESISTANT SOLTED MH LID		EACH		
1787	REMOVE	EXISTING GREASE TRAP, TRAPPED MANHOLE		EACH		
3528	INSTALL	200mm (8") GATE VALVE & BOX		EACH		
9061	INSTALL	PAVEMENT RESTORATION		m^2		
2256	INSTALL	REMOVE & RESET RIGHT OF WAY FENCE		METER		
1787	ABANDON	1.2m (4') DIA. MANHOLE		EACH		
	ABANDON	150mm (6") PVC LATERAL LINE		METER		
	ABANDON	200mm (8") PVC GRAVITY LINE		METER		
	ABANDON	200mm (8") PVC FORCE MAIN		METER		

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		14B	104

ITEM # 08-143.00

5+000

PCP 7

5+100

EXIST. ACCESS CONTROL R/W & FENCE

CONST. 11.6m OF 1350mm CULVERT PIPE

R=16m

STGP

R=16m

PCP 8

REMOVE

US 25

LEAVE PIPE IN PLACE

R=16m

5+200

5+300

5+400

STA. 5+220, 12m LT. - STA. 5+220, 15m RT. INSTALL 33m OF 610mm (24") DIA. STEEL CASING PIPE, BORE & PLUG

P.C. 5+210.592

STA. 5+220 INSTALL 33m of 610mm (24") STEEL CASING PIPE, PLUG

EXIST. ACCESS CONTROL R/W & FENCE

CONSTRUCTION LIMITS

SHOULDER

TRUCK LANE

FLUSH MEDIAN

(REMOVE)

UTILITY WIRE 9.0m HIGH

R=16m

R=20m

N 84°39'22" E

CONSTRUCTION LIMITS

N 26°08'48" E

BM #2

EXIST. 1372mm RCP

EXIST. ACCESS CONTROL R/W & FENCE

PCP 9

PCP 10

EXIST. ACCESS CONTROL R/W & FENCE

PCP 11

P.I. 5+373.627

254mm DI

RT. STA. 5+270 BEGIN 50m TAPER FOR RIGHT TURN LANE.

BILLBOARD

RT. STA. 5+200 TO 5+346 CONST. 155m STEEL W BEAM GUARDRAIL (S.F.) TIE TO EXISTING GUARDRAIL.

RT. STA. 5+349 CONST. 10.5m BIT. ENT.

BM #2 SPIKE IN POWER POLE 10.568m RT. OF STA. 5+336.195 ELEV. 353.512

SCALE 1:500

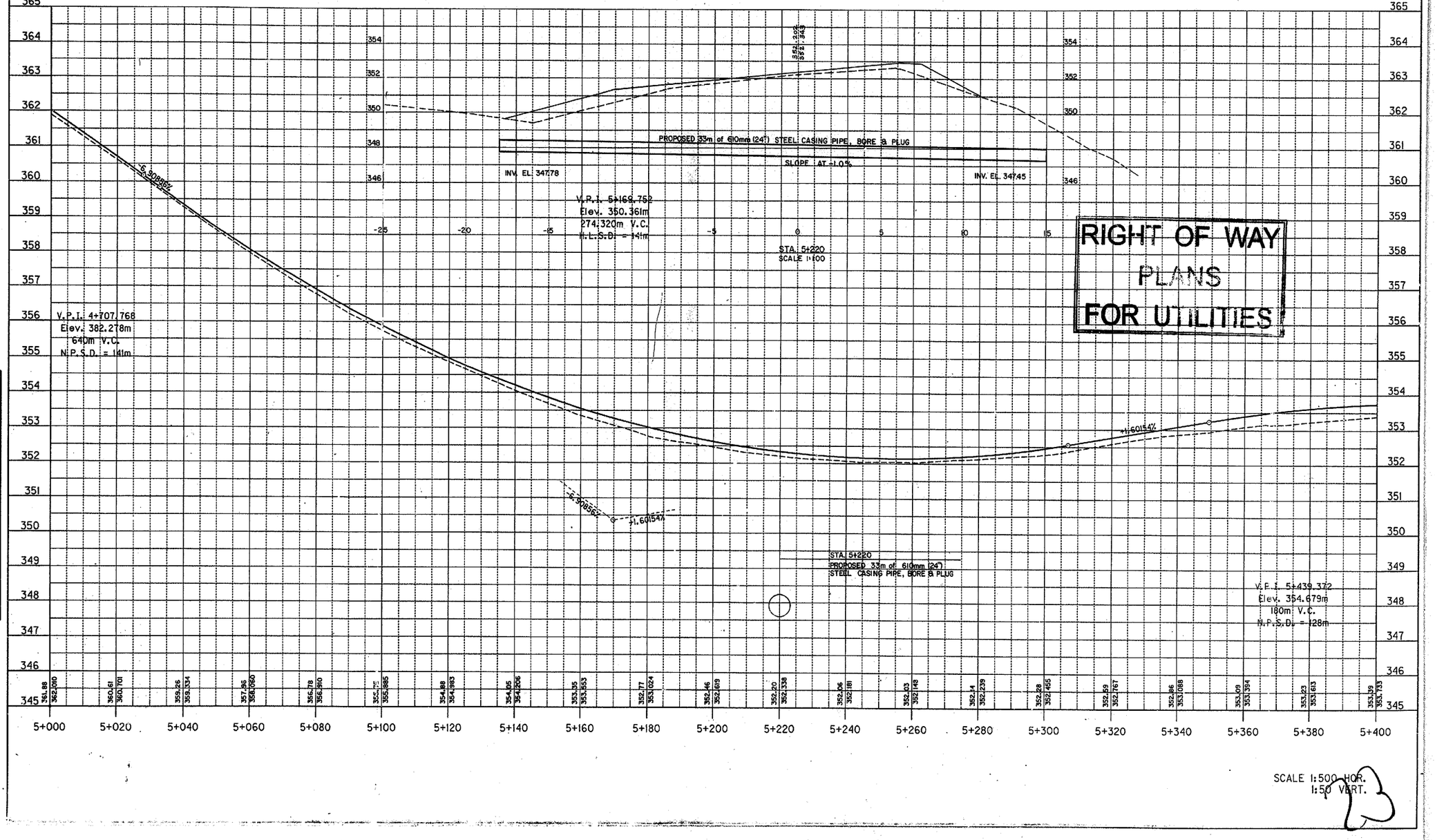
PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

FILENAME: PLAN3.DGN
Cell Library: mrroadway.cel
Cell Name: sp
22-APR-1998 11:39

6-93
FORM NO. 2m

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		14C	104

S:PR-4611-003
FD52-102-0025 015-016D



DATE
DRAWN BY
CHECKED BY
DATE
APPROVED BY
DATE

Cell Library: mroadway.cel
Cell Name: sp
02-AUG-1996 13:03

93
MM NO. 2m

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		14D	104

ITEM * 08-143.00

REVISED PLANS DATE 10-26-98

	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

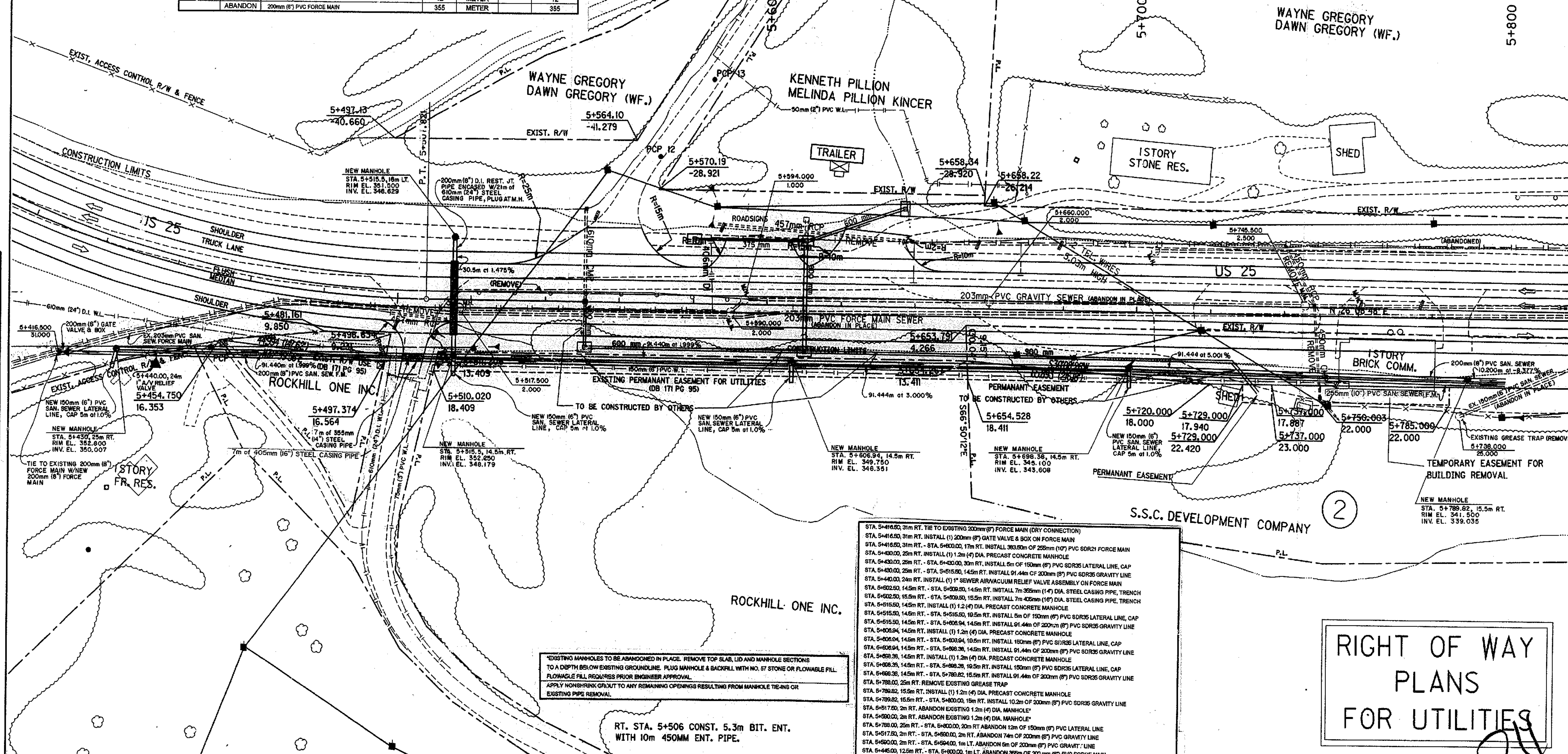
PROJECT NO. ROCKCASTLE
COUNTY ITEM * 08-143.00

SUMMARY STA. 5+400 TO STA. 5+800						
Item Code	Action	Item	Estimated Quantity	Unit	Previous Sheet	Cummulative Total
9089	INSTALL	1.2m (4') DIA. PRECAST MANHOLE, FRAME & LID	6	EACH		6
3385	INSTALL	150mm (6") PVC SDR35 LATERAL LINE & CAP	20	METER		20
1095	INSTALL	200mm (8") D.I. RESTRAINED JOINT GRAVITY LINE	31	METER		31
1099	INSTALL	305mm (12") D.I. RESTRAINED JOINT GRAVITY LINE		METER		
3389	INSTALL	255mm (10") PVC SDR21 FORCE MAIN	384	METER		384
3387	INSTALL	200mm (8") PVC SDR35 GRAVITY LINE	376	METER		376
3391	INSTALL	305mm (12") PVC SDR35 GRAVITY LINE		METER		
1071	INSTALL	355mm (14") DIA. STEEL CASING PIPE, TRENCH	7	METER		7
1073	INSTALL	405mm (16") DIA. STEEL CASING PIPE, TRENCH	7	METER		7
1075	INSTALL	460mm (18") DIA. STEEL CASING PIPE, TRENCH		METER		
1081	INSTALL	610mm (24") DIA. STEEL CASING PIPE, TRENCH	21	METER		21
1081	INSTALL	610mm (24") DIA. STEEL CASING PIPE, BORE & PLUG		METER	33	33
9079	INSTALL	RECONNECT EXISTING SERVICE INCLUDING LATERAL		EACH		0
3468	INSTALL	TIE TO EX. 200mm (8") PVC FORCE MAIN (Dry Connection)	1	EACH		1
9014	INSTALL	TIE TO EX. MH W/200mm (8") GRAVITY (Dry Connection)		EACH		0
9074	INSTALL	1" COMBINATION AIR/VACUUM RELIEF VALVE ASSEMBLY	1	EACH		1
1792	INSTALL	GRADE RING, ADJUST MANHOLE		EACH		0
72	INSTALL	TRENCH BACKFILL, #57 STONE OR	18.7	m^3		18.7
2220		FLOWABLE FILL	18.7	m^3		18.7
	INSTALL	WATER-RESISTANT BOLTED MH LID		EACH		0
1787	REMOVE	EXISTING GREASE TRAP, TRAPPED MANHOLE	1	EACH		1
3528	INSTALL	200mm (8") GATE VALVE & BOX	1	EACH		1
9081	INSTALL	PAVEMENT RESTORATION		m^2		0.0
2256	INSTALL	REMOVE & RESET RIGHT OF WAY FENCE		METER		0
1787	ABANDON	*1.2m (4') DIA. MANHOLE	5	EACH		5
	ABANDON	150mm (6") PVC LATERAL LINE		METER		0
	ABANDON	200mm (8") PVC GRAVITY LINE	12	METER		12
	ABANDON	200mm (8") PVC FORCE MAIN	355	METER		355

STA. 5+515.50, 16m LT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 5+515.50, 16m LT. - STA. 5+515.50, 14.5m RT. INSTALL 30.5m OF 200mm (8") D.I. RESTRAINED JOINT GRAVITY LINE
STA. 5+515.50, 12m LT. - STA. 5+515.50, 9m RT. INSTALL 21m OF 610mm (24") DIA. STEEL CASING PIPE, TRENCH
STA. 5+594.00, 1m LT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 5+660.00, 2m LT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 5+745.50, 2.5m LT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 5+594.00, 1m LT. - STA. 5+660.00, 2.5m LT. ABANDON 67m OF 200mm (8") PVC GRAVITY LINE
STA. 5+660.00, 2m LT. - STA. 5+745.50, 2.5m LT. ABANDON 86m OF 200mm (8") PVC GRAVITY LINE
STA. 5+745.50, 2.5m LT. - STA. 5+800.00, 3.5m LT. ABANDON 55m OF 200mm (8") PVC GRAVITY LINE

LT. STA. 5+600 CONST. 15.2m GRAVEL ENT.

LT. STA. 5+632 CONST. 15m GRAVEL ENT.



*EXISTING MANHOLES TO BE ABANDONED IN PLACE. REMOVE TOP SLAB, LID AND MANHOLE SECTIONS TO A DEPTH BELOW EXISTING GROUNDLINE. PLUG MANHOLE & BACKFILL WITH NO. 57 STONE OR FLOWABLE FILL. FLOWABLE FILL REQUIRES PRIOR ENGINEER APPROVAL.
APPLY NONSHRINK GROUT TO ANY REMAINING OPENINGS RESULTING FROM MANHOLE TIE-INS OR EXISTING PIPE REMOVAL.

RT. STA. 5+506 CONST. 5.3m BIT. ENT.
WITH 10m 450MM ENT. PIPE.

STA. 5+416.50, 31m RT. TIE TO EXISTING 200mm (8") FORCE MAIN (DRY CONNECTION)
STA. 5+416.50, 31m RT. INSTALL (1) 200mm (8") GATE VALVE & BOX ON FORCE MAIN
STA. 5+416.50, 31m RT. - STA. 5+800.00, 17m RT. INSTALL 383.50m OF 255mm (10") PVC SDR21 FORCE MAIN
STA. 5+430.00, 25m RT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 5+430.00, 25m RT. - STA. 5+430.00, 30m RT. INSTALL 5m OF 150mm (6") PVC SDR35 LATERAL LINE, CAP
STA. 5+430.00, 25m RT. - STA. 5+515.50, 14.5m RT. INSTALL 91.44m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 5+440.00, 24m RT. INSTALL (1) 1" SEWER AIR/VACUUM RELIEF VALVE ASSEMBLY ON FORCE MAIN
STA. 5+502.50, 14.5m RT. - STA. 5+509.50, 14.5m RT. INSTALL 7m 355mm (14") DIA. STEEL CASING PIPE, TRENCH
STA. 5+502.50, 15.5m RT. - STA. 5+509.50, 15.5m RT. INSTALL 7m 405mm (16") DIA. STEEL CASING PIPE, TRENCH
STA. 5+515.50, 14.5m RT. INSTALL (1) 1.2 (4') DIA. PRECAST CONCRETE MANHOLE
STA. 5+515.50, 14.5m RT. - STA. 5+515.50, 19.5m RT. INSTALL 5m OF 150mm (6") PVC SDR35 LATERAL LINE, CAP
STA. 5+515.50, 14.5m RT. - STA. 5+606.94, 14.5m RT. INSTALL 91.44m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 5+606.94, 14.5m RT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 5+606.94, 14.5m RT. - STA. 5+603.94, 19.5m RT. INSTALL 150mm (6") PVC SDR35 LATERAL LINE, CAP
STA. 5+606.94, 14.5m RT. - STA. 5+698.38, 14.5m RT. INSTALL 91.44m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 5+698.38, 14.5m RT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 5+698.38, 14.5m RT. - STA. 5+698.38, 19.5m RT. INSTALL 150mm (6") PVC SDR35 LATERAL LINE, CAP
STA. 5+698.38, 14.5m RT. - STA. 5+789.82, 15.5m RT. INSTALL 91.44m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 5+788.00, 25m RT. REMOVE EXISTING GREASE TRAP
STA. 5+789.82, 15.5m RT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 5+789.82, 15.5m RT. - STA. 5+800.00, 15m RT. INSTALL 10.2m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 5+517.50, 2m RT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 5+590.00, 2m RT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 5+788.00, 25m RT. - STA. 5+800.00, 20m RT ABANDON 12m OF 150mm (6") PVC LATERAL LINE
STA. 5+517.50, 2m RT. - STA. 5+590.00, 2m RT. ABANDON 74m OF 200mm (8") PVC GRAVITY LINE
STA. 5+590.00, 2m RT. - STA. 5+594.00, 1m LT. ABANDON 5m OF 200mm (8") PVC GRAVITY LINE
STA. 5+445.00, 12.5m RT. - STA. 5+800.00, 1m LT. ABANDON 355m OF 200 mm (8") PVC FORCE MAIN

RIGHT OF WAY PLANS FOR UTILITIES

SCALE 1:500

PREPARED BY ______ DATE ______
CHECKED BY ______ DATE ______
APPROVED BY ______ DATE ______

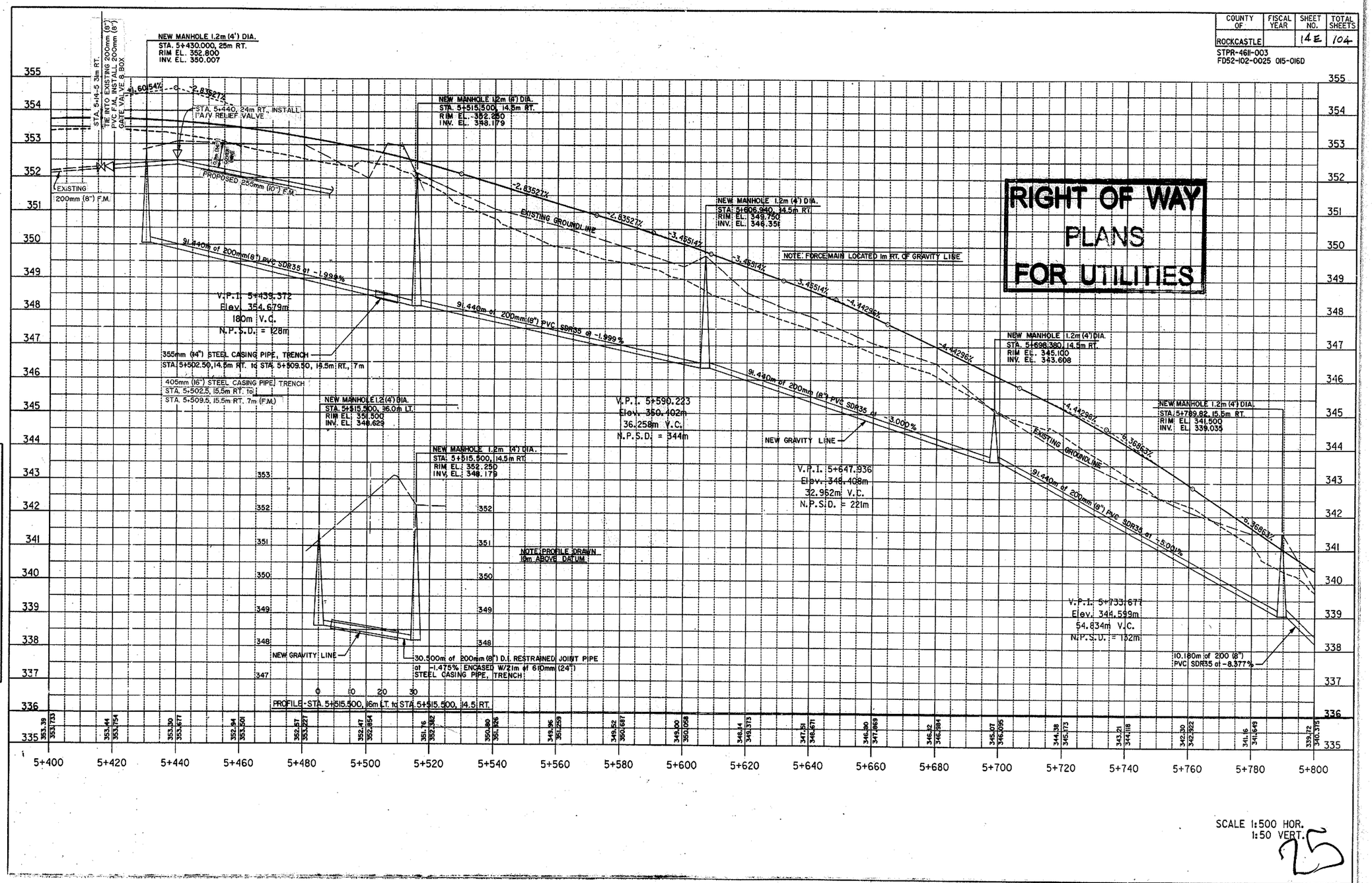
FILE NAME: PLAN4.DGN
Cell Library: mroadway.cel
Cell Name: sp
26-OCT-1998 09:01

6-93
FORM NO. 2m

24

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		14E	104

STPR-461I-003
FD52-102-0025 015-016D



SCALE 1:500 HOR.
1:50 VERT.

25

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02-AUG-1996 13:05

FORM NO. 2m -93

RIGHT OF WAY
PLANS
FOR UTILITIES

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		14F	104

ITEM * 08-143.00

REVISED PLANS DATE 10-26-98

	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		11	18

PROJECT NO. ITEM * 08-143.00

COUNTY ROCKCASTLE

STA. 6+053.60, 12.5m LT. - STA. 6+108.00, 14m LT. INSTALL 53.5m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 6+053.50, 12.5m LT. INSTALL GRADE RING, RAISE EXISTING MANHOLE TOP 0.20m (7.9")
STA. 6+053.50, 12.5m LT. TIE TO EXISTING MANHOLE WITH NEW 200mm (8") PVC GRAVITY LINE (DRY CONNECTION)
STA. 6+053.90, 12.5m LT. INSTALL WATER-RESISTANT, BOLTED MANHOLE LID
STA. 6+108.00, 14m LT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 6+108.00, 14m LT. - STA. 6+171.00, 14m LT. INSTALL 67m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 6+108.50, 13.5m LT. - STA. 6+125.50, 13m LT. INSTALL 17m OF 355mm (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+130.50, 13m LT. - STA. 6+165.50, 13m LT. INSTALL 35m OF 355 (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+157.50, 13.25m LT. - STA. 6+165.50, 13.5m LT. INSTALL 7m OF 355mm (14") STEEL CASING PIPE, TRENCH
STA. 6+171.00, 14m LT. INSTALL (1) 1.2m (4') DIA. PRECASTE CONCRETE MANHOLE
STA. 6+171.00, 14m LT. - STA. 6+200.00, 14m LT. INSTALL 29m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 6+956.00, 4m LT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 5+933.50, 5m LT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+024.00, 2m LT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+127.00, 9m LT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+168.00, 4.5m LT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+187.50, 7m LT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+803.00, 3m LT. - STA. 5+985.50, 4m LT. ABANDON 57m OF 200mm (8") PVC GRAVITY LINE
STA. 5+956.40, 4m LT. - STA. 5+933.50, 5m LT. ABANDON 77m OF 200mm (8") PVC GRAVITY LINE
STA. 5+923.50, 5m LT. - STA. 6+024.00, 2m LT. ABANDON 90m OF 200mm (8") PVC GRAVITY LINE
STA. 6+024.00, 2m LT. - STA. 6+120.00, 3.6m RT. ABANDON 78m OF 200mm (8") PVC GRAVITY LINE
STA. 6+053.50, 12.5m LT. - STA. 6+127.00, 9m LT. ABANDON 21m OF 200mm (8") PVC GRAVITY LINE
STA. 6+127.00, 9m LT. - STA. 6+187.50, 7m LT. ABANDON 41m OF 200mm (8") PVC GRAVITY LINE
STA. 6+167.50, 7m LT. - STA. 6+168.00, 4.5m LT. ABANDON 5m OF 200mm (8") PVC GRAVITY LINE
STA. 6+168.00, 4.5m LT. - STA. 6+200.00, 6m LT. ABANDON 91m OF 200mm (8") PVC GRAVITY LINE
STA. 5+900.00, 1m LT. - STA. 5+920.00, 9.5m RT. ABANDON 402m OF 200mm (8") PVC FORCE MAIN
PARCEL #6, RECONNECT EXISTING SERVICE INCLUDING LATERAL
PAUL McNEW, RECONNECT EXISTING SERVICE INCLUDING LATERAL

SUMMARY STA. 5+890 TO STA. 6+200

Item Code	Action	Item	Estimated Quantity	Unit	Previous Sheet	Cummulative Total
9069	INSTALL	1.2m (4') DIA. PRECAST MANHOLE, FRAME & LID	6	EACH	6	12
3385	INSTALL	150mm (6") PVC SDR35 LATERAL LINE & CAP		METER	20	20
1095	INSTALL	200mm (8") D.I. RESTRAINED JOINT GRAVITY LINE		METER	31	31
1099	INSTALL	305mm (12") D.I. RESTRAINED JOINT GRAVITY LINE		METER		
3389	INSTALL	255mm (10") PVC SDR21 FORCE MAIN	400	METER	384	784
3387	INSTALL	200mm (8") PVC SDR35 GRAVITY LINE	550	METER	376	926
3391	INSTALL	305mm (12") PVC SDR35 GRAVITY LINE		METER		
1071	INSTALL	355mm (14") DIA. STEEL CASING PIPE, TRENCH	49	METER	7	56
1073	INSTALL	405mm (16") DIA. STEEL CASING PIPE,TRENCH		METER	7	7
1075	INSTALL	460mm (18") DIA. STEEL CASING PIPE,TRENCH		METER		
1081	INSTALL	610mm (24") DIA. STEEL CASING PIPE, TRENCH		METER	21	21
1081	INSTALL	510mm (24") DIA. STEEL CASING PIPE, BORE & PLUG		METER	33	33
9079	INSTALL	RECONNECT EXISTING SERVICE INCLUDING LATERAL	2	EACH		2
3468	INSTALL	TIE TO EX. 200mm (8") PVC FORCE MAIN (Dry Connection)		EACH	1	1
9014	INSTALL	TIE TO EX. MH W/200mm (8") GRAVITY (Dry Connection)	1	EACH		1
9074	INSTALL	1" COMBINATION AIR/VACUUM RELIEF VALVE ASSEMBLY		EACH	1	1
1792	INSTALL	GRADE RING, ADJUST MANHOLE	1	EACH		1
72	INSTALL	TRENCH BACKFILL, #57 STONE OR FLOWABLE FILL	57.5	m^3	18.7	76.2
2220			57.5	m3	18.7	76.2
	INSTALL	WATER-RESISTANT BOLTED MH LID	1	EACH		1
1787	REMOVE	EXISTING GREASE TRAP, TRAPPED MANHOLE		EACH	1	1
3528	INSTALL	200mm (8") GATE VALVE & BOX		EACH	1	1
9081	INSTALL	PAVEMENT RESTORATION		m^2		0
2256	INSTALL	REMOVE & RESET RIGHT OF WAY FENCE		METER	0	0
1787	ABANDON	*1.2m (4') DIA. MANHOLE	7	EACH	5	12
	ABANDON	150mm (6") PVC LATERAL LINE	62	METER	0	62
	ABANDON	200mm (8") PVC GRAVITY LINE	558	METER	12	570
	ABANDON	200mm (8") PVC FORCE MAIN	400	METER	355	755

LT. STA. 6+015 CONST.15m BIT. ENT. WITH 25m OF 450mm ENT. PIPE

LT. STA. 6+100 CONST. 3m GRAVEL. ENT. WITH 10m of 375mm ENT. PIPE

LT. STA. 6+115 CONST. 15.2m BIT. ENT.

LT. STA. 6+142 CONST. 12.5m BIT. ENT. WITH 17m OF 375mm ENT. PIPE

JACK HOL

POOL

5+800

6+000

6+100

6+200

PAUL McNEW

P.L.

BILLBOARD

5+964.20
-32.239

5+962.81
-26.154

PCP 15

PCP 16

B.TOP

EXISTING 450mm (18") SAN. SEWER

EXIST. R/W

5+933.500
5.000

5+956.000
4.000

REMOVE 457mm RCP

US 25

SHOULDER

TRUCK LANE

FLUSH MEDIAN

6+024.000
2.000

6+067.811

6+095.74
-24.363

6+095.958
-21.348

GUY C. MARTIN
DOROTHY MARTIN (WF.)

NEW MANHOLE
STA. 6+105.00, 14m LT.
RIM EL. 323.950
INV. EL. 321.253

EXISTING MANHOLE
STA. 6+053.50, 12.5m LT.
RIM EL. 324.880 (EXIST.)
INV. EL. 323.290

CONSTRUCTION LIMITS
53.500m at -5.807%

203mm PVC GRAVITY SEWER (ABANDON IN PLACE)

N 40° 41'50" E

6+127.000
9.000

6+100.00
3.500

6+167.500
7.000

6+168.000
4.500

6+158.247

6+118.046

ISTORY BRICK COMM.

67.000m at -1.870%

300mm (12") SAN. SEWER 11m

EXIST. R/W

6+160.191
-35.297

6+212.985
-40.998

6+207.159
-29.876

NEW MANHOLE
STA. 6+171.00, 14m LT.
RIM EL. 322.275
INV. EL. 320.000

6

JOSEPH E. LAMBERT
JAMES H. LAMBERT

ISTORY BRICK RES.

6+191.709
17.719

SHOULDER

EXISTING 600mm (24") SAN. SEWER 8.26m at -8.877%

EX. 200mm (8") PVC SAN. SEWER (ABANDON IN PLACE)

181.818 (596.49')
N25° 45'54"E

5+889.260
4.268

5+892.368
4.268

5+956.879
4.269

91.440m at -6.000%

NEW MANHOLE
STA. 5+972.70, 10m RT.
RIM EL. 328.900
INV. EL. 325.889

255mm (10") PVC SAN. SEWER FORCE MAIN

NEW MANHOLE
STA. 6+063.00, 10m RT.
RIM EL. 326.900
INV. EL. 320.817

91.440m at -3.647%

375mm RCP

600mm RCP

9

LESSOR
JAMES W. LAMBERT
CARTER HOSKINS
DWIGHT HOSKINS
DONITA HOSKINS (WF.)
LESSEE
McDONALD'S CORP.

5+889.614
16.870

5+863
28

5+857
28

PERMANENT EASEMENT

NEW MANHOLE
STA. 5+881.26, 14.75m RT.
RIM EL. 334.650
INV. EL. 331.375

13.83 (242.23')
N47°04'28"E

5+889.522
11.185

5+889.474
11.885

5+957.565
28.680

3.67 (60.04')
S47°04'28"E

14.597

105.548 (346.29')
N22° 48'22"E

5+012.494

P.C.

6+067.281
34.669

S65°27'47"E

P.I.

5+958.574
43.242

3

JAMES W. LAMBERT
SAM HOSKINS

APPR. STA. 0+00-
MAINLINE STA. 6+154.91

CONSTRUCTION LIMITS

STA. 0+013.12
BEGIN APPR. CONSTR.

44.500m at -1.726%

6+189.850
15.647

6+189.770
20.000

6+211.787
15.095

6+211.353
20.000

6+218.000
19.562

21.577(70.79')
N40° 31'47"E

NEW MANHOLE
STA. 6+155.50, 10m RT.
RIM EL. 321.100
INV. EL. 318.739

EXIST. R/W

P.T. 6+160.329

6+189.53
39.616

Ⓐ 3.048 (10.00')
N26°08'49"E

Ⓑ 7.620 (25.00')
S65°27'47"E

Ⓒ 3.048 (10.00')
S26°08'49"W

Ⓓ 7.620 (25.00')
N65°27'47"W

RT. STA. 5+880 TO 6+204 CONST.
327m STEEL W BEAM GUARDRAIL (S.F.)
WITH END TREATMENT TYPE 4A AND 1
TERMINAL SECTION NO. 1.

*EXISTING MANHOLES TO BE ABANDONED IN PLACE. REMOVE TOP SLAB, LID AND MANHOLE SECTIONS TO A DEPTH BELOW EXISTING GROUNDLINE. PLUG MANHOLE & BACKFILL WITH NO. 57 STONE OR FLOWABLE FILL. FLOWABLE FILL REQUIRES PRIOR ENGINEER APPROVAL.
APPLY NONSHRINK GROUT TO ANY REMAINING OPENINGS RESULTING FROM MANHOLE TIE-INS OR EXISTING PIPE REMOVAL.

STA. 5+900.00, 17m RT. - STA. 6+200.00, 14m RT. INSTALL 400m OF 255mm (10") PVC SDR21 FORCE MAIN
STA. 5+900.00, 16m RT. - STA. 5+881.26, 14.75m RT. INSTALL 91.28m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 5+881.26, 14.75m RT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 5+881.26, 14.75m RT. - STA. 5+970.72, 10m RT. INSTALL 91.44m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 5+972.70, 10m RT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 5+972.70, 10m RT. - STA. 6+063.00, 10m RT. INSTALL 91.44m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 6+063.00, 10m RT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 6+063.00, 10m RT. - STA. 6+155.50, 10m RT. INSTALL 91.44m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 6+096.00, 13.45m LT. - STA. 6+103.00, 14m LT. INSTALL 10m OF 355mm (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+155.50, 10m RT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 6+155.50, 10m RT. - STA. 6+200.00, 13m RT. INSTALL 44.5m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 6+100.00, 3.5m RT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+600.00, 20m RT. - STA. 6+656.50, 4m LT, ABANDON 62m OF 150mm (6") PVC LATERAL LINE
STA. 6+100.00, 3.0m RT. - STA. 6+200.00, 6.5m RT. ABANDON 100m OF 200mm (8") PVC GRAVITY LINE

P.I. 6+086.811
Δ = 14°33'02" Rt.
R = 582.125m
T = 74.317m
L = 147.834m
E = 4.725m
e = 5.5%
Runoff = 44
Runout = 16

4

GUY C. MARTIN
DOROTHY MARTIN (WF.)

RIGHT OF WAY PLANS FOR UTILITIES

SCALE 1:500

PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

FILE NAME: PLANS.DGN
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Cell Name: SD
26-OCT-1998 09:08

6-93
FORM NO. 2m

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		14G	104

STPR-461I-003
FD52-102-0025 015-016D

RIGHT OF WAY PLANS FOR UTILITIES

355mm (14") STEEL CASING PIPE, TRENCH
- (A) STA. 6+096.00, 13.95m LT. to STA. 6+103.00, 14m LT., 10m
- (B) STA. 6+108.50, 13.50m LT. to STA. 6+125.50, 13m LT., 17m
- (C) STA. 6+133.50, 13.00m LT. to STA. 6+148.50, 13m LT., 15m
- (D) STA. 6+157.50, 13.25m LT. to STA. 6+165.50, 8.5m LT., 7m

NEW MANHOLE 1.2m (4') DIA.
STA. 5+821.260, 14.75m RT.
RIM EL. 338.650
INV. EL. 331.375

EXISTING MANHOLE 1.2m (4') DIA.
STA. 6+053.500, 12.5m LT.
RIM EL. 324.860 (EXISTING)
RIM EL. 324.961 (NEW, RAISE 0.021m)
INV. EL. 323.290

NEW MANHOLE 1.2m (4') DIA.
STA. 6+106.000, 14.0m LT.
RIM EL. 323.950
INV. EL. 321.253

NEW MANHOLE 1.2m (4') DIA.
STA. 6+171.000, 14.0m LT.
RIM EL. 322.275
INV. EL. 320.000

NEW MANHOLE 1.2m (4') DIA.
STA. 5+972.700, 10.0m RT.
RIM EL. 328.500
INV. EL. 325.869

NEW MANHOLE 1.2m (4') DIA.
STA. 6+083.000, 10.0m RT.
RIM EL. 323.800
INV. EL. 320.817

NEW MANHOLE 1.2m (4') DIA.
STA. 6+155.500, 10.0m RT.
RIM EL. 321.100
INV. EL. 318.739

91.250m of 200mm (8") PVC SDR35 at -15.377%

-5.366632%

-5.366632%

-5.715574%

-5.715574%

EXISTING GROUNDLINE

NOTE: FORCE MAIN LOCATED In RT. OF GRAVITY LINE

91.440m of 200mm (8") PVC SDR35 at -6.000%

V.P.I. 6+024.212
Elev. 325.831m
100m V.C.
H.L.S.D. = 1.41m

V.P.I. 5+948.903
Elev. 339.892m
40m V.C.
N.P.S.D. = 5.95m

-5.719857%

-5.719857%

-3.334262%

-3.334262%

-1.724457%

-1.724457%

-1.424442%

NEW GRAVITY LINE

EXISTING GROUNDLINE

53.500m of 200mm (8") PVC SDR35 at -3.807%

NEW GRAVITY LINE

67.000m of 200mm (8") PVC SDR35 at -1.870%

PROFILE - STA. 6+053.500, 12.5m LT. to STA. 6+171.000, 14.0m LT.

NOTE: PROFILE DRAWN 10m ABOVE DATUM

V.P.I. 6+108.801
Elev. 323.011m
40m V.C.
H.L.S.D. = Unlimited

29.900m of 200mm (8") PVC SDR35 at -3.560%

V.P.I. 6+181.963
Elev. 321.749m
30m V.C.
H.L.S.D. = Unlimited

91.440m of 200mm (8") PVC SDR35 at 2.273%

44.500m of 200mm (8") PVC SDR35 at -1.726%

SCALE 1:500 HOR.
1:50 VER.

339.72	340.375	5+800	
330.51	339.101	5+820	
337.14	337.827	5+840	
335.43	336.554	5+860	
334.83	335.280	5+880	
333.27	334.006	5+900	
331.70	332.732	5+920	
330.92	331.453	5+940	
329.71	330.149	5+960	
328.91	328.808	5+980	
326.73	327.871	6+000	
325.84	326.469	6+020	
324.96	325.503	6+040	
324.24	324.671	6+060	
323.60	323.971	6+080	
323.04	323.329	6+100	
322.65	322.833	6+120	
322.29	322.405	6+140	
321.89	322.128	6+160	
321.60	321.791	6+180	
321.22	321.493	6+200	

DRAWN BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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02-AUG-1996 13:06

6-93
FORM NO. 2m

SUMMARY STA. 6+200 TO STA. 6+560

Item Code	Action	Item	Estimated Quantity	Unit	Previous Sheet	Cummulative Total
9089	INSTALL	1.2m (4') DIA. PRECAST MANHOLE, FRAME & LID	3	EACH	12	15
3385	INSTALL	150mm (6") PVC SDR35 LATERAL LINE & CAP		METER	20	20
1095	INSTALL	200mm (8") D.I. RESTRAINED JOINT GRAVITY LINE		METER	31	31
1099	INSTALL	406mm (12") D.I. RESTRAINED JOINT GRAVITY LINE	38	METER		38
3389	INSTALL	265mm (10") PVC SDR21 FORCE MAIN	115	METER	784	899
3387	INSTALL	200mm (8") PVC SDR35 GRAVITY LINE	261	METER	926	1187
3391	INSTALL	306mm (12") PVC SDR35 GRAVITY LINE	24	METER		24
1071	INSTALL	355mm (14") DIA. STEEL CASING PIPE, TRENCH	106	METER	56	162
1073	INSTALL	406mm (16") DIA. STEEL CASING PIPE,TRENCH	40	METER	7	47
1075	INSTALL	462mm (18") DIA. STEEL CASING PIPE,TRENCH	8	METER		8
1081	INSTALL	610mm (24") DIA. STEEL CASING PIPE, TRENCH	22	METER	21	43
1081	INSTALL	610mm (24") DIA. STEEL CASING PIPE, BORE & PLUG		METER	33	33
9079	INSTALL	RECONNECT EXISTING SERVICE INCLUDING LATERAL	3	EACH	2	5
3488	INSTALL	TIE TO EX. 200mm (8") PVC FORCE MAIN (DRY CONNECTION)	1	EACH	1	2
9014	INSTALL	TIE TO EX. MH W/200mm (8") GRAVITY (DRY CONNECTION)	2	EACH	1	3
9074	INSTALL	1" COMBINATION AIR/VACUUM RELIEF VALVE ASSEMBLY		EACH	1	1
1792	INSTALL	GRADE RING, ADJUST MANHOLE		EACH	1	1
72	INSTALL	TRENCH BACKFILL, #57 STONE OR	207.5	m^3	76.2	283.7
2220		FLOWABLE FILL	207.5	m^3	76.2	283.7
	INSTALL	WATER-RESISTANT BOLTED MH LID		EACH	1	1
1787	REMOVE	EXISTING GREASE TRAP, TRAPPED MANHOLE		EACH	1	1
3528	INSTALL	200mm (8") GATE VALVE & BOX	1	EACH	1	2
9081	INSTALL	PAVEMENT RESTORATION	20.3	m^2	0.0	20.3
2256	INSTALL	REMOVE & RESET RIGHT OF WAY FENCE	5	METER	0	5
1787	ABANDON	*1.2m (4') DIA. MANHOLE	5	EACH	12	17
	ABANDON	150mm (6") PVC LATERAL LINE		METER	62	62
	ABANDON	200mm (8") PVC GRAVITY LINE	121	METER	570	691
	ABANDON	200mm (8") PVC FORCE MAIN	80	METER	755	835

STA. 6+200.00, 14m LT. - STA. 6+203.50, 13.75m LT. INSTALL 63.5m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 6+243.00, 14m LT. - STA. 6+260.00, 13.5m LT. INSTALL 17m 355mm (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+263.50, 13.75m LT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 6+263.50, 13.75m LT. - STA. 6+324.00, 14m LT. INSTALL 60m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 6+281.00, 14.5m LT. - STA. 6+288.00, 15m LT. INSTALL 17m OF 355 (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+311.50, 14.5m LT. - STA. 6+319.50, 14.5m LT. INSTALL 8m OF 355 (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+316.50, 37m LT. - STA. 6+324.00, 14m LT. INSTALL 24m OF 305mm (12") PVC SDR35 GRAVITY LINE
STA. 6+316.50, 37m LT. - STA. 6+316.50, 33.5m LT. INSTALL 7.5m OF 460mm (18") DIA. STEEL CASING PIPE, TRENCH
STA. 6+316.50, 37m LT. TIE TO EXISTING MANHOLE WITH NEW 200mm (8") PVC GRAVITY LINE (DRY CONNECTION)
STA. 6+324.00, 14m LT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 6+324.00, 14m LT. - STA. 6+334.50, 22.5m RT. INSTALL 36m OF 305mm (12") D.I. RESTRAINED JOINT GRAVITY LINE
STA. 6+325.00, 12.5m LT. - STA. 6+330.50, 6.8m RT. INSTALL 22m OF 610mm (24") DIA. STEEL CASING PIPE, TRENCH
STA. 6+259.00, 5.5m LT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+313.00, 6.5m LT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+200.00, 5m LT. - STA. 6+259.00, 5.5m LT. ABANDON 59m OF 200mm (8") PVC GRAVITY LINE
STA. 6+259.00, 5.5m LT. - STA. 6+316.00, 6.5m LT. ABANDON 53m OF 200mm (8") PVC GRAVITY LINE
CURRY OIL CO.: RECONNECT EXISTING SERVICE INCLUDING LATERAL
H.T. HARDY III, BRENDA S. HARDY, RECONNECT EXISTING SERVICE INCLUDING LATERAL
PARCEL #8, RECONNECT EXISTING SERVICE INCLUDING LATERAL

REVISED PLANS DATE 10-26-98

	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		13	18

PROJECT NO. ITEM # 08-143.00
COUNTY ROCKCASTLE

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		#H	1694

ITEM # 08-143.00

RIGHT OF WAY PLANS FOR UTILITIES

STA. 6+560 END PROJECT

STA. 6+200.00, 13m RT. - STA. 6+315.00, 21m RT. INSTALL 115m OF 265mm (10") PVC SDR21 FORCE MAIN
STA. 6+200.00, 13m RT. - STA. 6+247.00, 16m RT. INSTALL 47m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 6+223.50, 14.5m RT. - STA. 6+236.00, 15m RT. INSTALL 13m OF 355mm (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+223.50, 15.5m RT. - STA. 6+236.00, 16m RT. INSTALL 13m OF 406mm (16") DIA. STEEL CASING PIPE, TRENCH
STA. 6+247.00, 19m RT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 6+247.00, 16m RT. - STA. 6+334.50, 22.5m RT. INSTALL 91.44m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 6+253.50, 15.5m RT. - STA. 6+257.50, 17m RT. INSTALL 11m OF 406mm (16") DIA. STEEL CASING PIPE, TRENCH
STA. 6+254.00, 15.5m RT. - STA. 6+257.00, 16m RT. INSTALL 11m OF 355mm (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+276.00, 19m RT. - STA. 6+291.50, 17m RT. INSTALL 16m OF 355 (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+276.00, 18.5m RT. - STA. 6+291.50, 18m RT. INSTALL 16m OF 405 (16") DIA. STEEL CASING PIPE, TRENCH
STA. 6+298.50, 17.5m RT. - STA. 6+321.00, 20m RT. INSTALL 22m OF 355 (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+315.00, 21m RT. TIE TO EXISTING 200mm (8") PVC FORCE MAIN (DRY CONNECTION)
STA. 6+315.00, 21m RT. INSTALL (1) 200mm (8") GATE VALVE & BOX
STA. 6+334.50, 22.5m RT. TIE TO EXISTING MANHOLE WITH NEW 200mm (8") PVC GRAVITY LINE (DRY CONNECTION)
STA. 6+208.50, 6.8m RT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+312.50, 12.5m RT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+314.00, 25.5m RT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+200.00, 8.5m RT. - STA. 6+206.50, 6.5m RT. ABANDON 6.5m OF 200mm (8") PVC GRAVITY LINE
STA. 6+200.00, 9.5m RT. - STA. 6+289.00, 13.5m RT. ABANDON 80m OF 200mm (8") PVC FORCE MAIN

*EXISTING MANHOLES TO BE ABANDONED IN PLACE. REMOVE TOP SLAB, LID AND MANHOLE SECTIONS TO A DEPTH BELOW EXISTING GROUNDLINE, PLUG MANHOLE & BACKFILL WITH NO. 57 STONE OR FLOWABLE FILL. FLOWABLE FILL REQUIRES PRIOR ENGINEER APPROVAL.
APPLY NONSHRINK GROUT TO ANY REMAINING OPENINGS RESULTING FROM MANHOLE TIE-INS OR EXISTING PIPE REMOVAL

BM #3 SPIKE IN POWER POLE
34.17m RT. OF STA. 6+432.797
ELEV. 315.262

SCALE 1:500

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

FILE NAME: PLAN6.DGN
Cell Library: mroadway.cel
Cell Name: sp
28-OCT-1998 09:21

6-93
FORM NO. 2m

SUMMARY STA. 6+200 TO STA. 6+560						
Item Code	Action	Item	Estimated Quantity	Unit	Previous Sheet	Cummulative Total
9089	INSTALL	1.2m (4') DIA. PRECAST MANHOLE, FRAME & LID	3	EACH	12	15
3385	INSTALL	150mm (6") PVC SDR35 LATERAL LINE & CAP		METER	20	20
1095	INSTALL	200mm (8") D.I. RESTRAINED JOINT GRAVITY LINE		METER	31	31
1099	INSTALL	305mm (12") D.I. RESTRAINED JOINT GRAVITY LINE	38	METER		38
3389	INSTALL	255mm (10") PVC SDR21 FORCE MAIN	115	METER	784	899
3387	INSTALL	200mm (8") PVC SDR35 GRAVITY LINE	261	METER	926	1187
3391	INSTALL	305mm (12") PVC SDR35 GRAVITY LINE	24	METER		24
1071	INSTALL	355mm (14") DIA. STEEL CASING PIPE, TRENCH	106	METER	56	162
1073	INSTALL	405mm (16") DIA. STEEL CASING PIPE,TRENCH	40	METER	7	47
1075	INSTALL	460mm (18") DIA. STEEL CASING PIPE,TRENCH	8	METER		8
1081	INSTALL	610mm (24") DIA. STEEL CASING PIPE, TRENCH	22	METER	21	43
1081	INSTALL	610mm (24") DIA. STEEL CASING PIPE, BORE & PLUG		METER	33	33
9079	INSTALL	RECONNECT EXISTING SERVICE INCLUDING LATERAL	3	EACH	2	5
3468	INSTALL	TIE TO EX. 200mm (8") PVC FORCE MAIN (DRY CONNECTION)	1	EACH	1	2
9014	INSTALL	TIE TO EX. MH W/200mm (8") GRAVITY (DRY CONNECTION)	2	EACH	1	3
9074	INSTALL	1" COMBINATION AIR/VACUUM RELIEF VALVE ASSEMBLY		EACH	1	1
1792	INSTALL	GRADE RING, ADJUST MANHOLE		EACH	1	1
72	INSTALL	TRENCH BACKFILL, #57 STONE OR	207.5	m^3	76.2	283.7
2220		FLOWABLE FILL	207.5	m^3	76.2	283.7
	INSTALL	WATER-RESISTANT BOLTED MH LID		EACH	1	1
1787	REMOVE	EXISTING GREASE TRAP, TRAPPED MANHOLE		EACH	1	1
3528	INSTALL	200mm (8") GATE VALVE & BOX	1	EACH	1	2
9081	INSTALL	PAVEMENT RESTORATION	20.3	m^3	0.0	20.3
2256	INSTALL	REMOVE & RESET RIGHT OF WAY FENCE	5	METER	0	5
1787	ABANDON	*1.2m (4') DIA. MANHOLE	5	EACH	12	17
	ABANDON	150mm (6") PVC LATERAL LINE		METER	62	62
	ABANDON	200mm (8") PVC GRAVITY LINE	121	METER	570	691
	ABANDON	200mm (8") PVC FORCE MAIN	80	METER	755	835

LT. STA. 6+316 CONST. 6.5m BIT. ENT.

STA. 6+200.00, 14m LT. - STA. 6+283.50, 13.75m LT. INSTALL 83.5m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 6+243.00, 14m LT. - STA. 6+260.00, 13.5m LT. INSTALL 17m 355mm (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+283.50, 13.75m LT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 6+283.50, 13.75m LT. - STA. 6+324.00, 14m LT. INSTALL 59m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 6+285.00, 14.5m LT. - STA. 6+298.00, 15m LT. INSTALL 17m OF 355 (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+311.50, 14.5m LT. - STA. 6+319.00, 14.5m LT. INSTALL 8m OF 355 (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+316.00, 37m LT. - STA. 6+324.00, 14m LT. INSTALL 24m OF 305mm (12") PVC SDR35 GRAVITY LINE
STA. 6+316.50, 37m LT. - STA. 6+319.50, 28.5m LT. INSTALL 7.5m OF 460mm (18") DIA. STEEL CASING PIPE, TRENCH
STA. 6+316.50, 37m LT. TIE TO EXISTING MANHOLE WITH NEW 200mm (8") PVC GRAVITY LINE (DRY CONNECTION)
STA. 6+324.00, 14m LT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 6+324.00, 14m LT. - STA. 6+334.50, 22.5m RT. INSTALL 36m OF 305mm (12") D.I. RESTRAINED JOINT GRAVITY LINE
STA. 6+325.00, 12.5m LT. - STA. 6+330.50, 8.5m RT. INSTALL 22m OF 610mm (24") DIA. STEEL CASING PIPE, TRENCH
STA. 6+259.00, 5.5m LT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+313.00, 6.5m LT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+200.00, 9m LT. - STA. 6+258.00, 5.5m LT. ABANDON 59m OF 200mm (8") PVC GRAVITY LINE
STA. 6+259.00, 5.5m LT. - STA. 6+316.00, 6.5m LT. ABANDON 57m OF 200mm (8") PVC GRAVITY LINE
CURRY OIL CO., RECONNECT EXISTING SERVICE INCLUDING LATERAL
H.T. HARDY III, BRENDA S. HARDY, RECONNECT EXISTING SERVICE INCLUDING LATERAL
PARCEL #8, RECONNECT EXISTING SERVICE INCLUDING LATERAL

REVISED PLANS DATE 10-26-98

	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		13	18

PROJECT NO. ITEM # 08-143.00
COUNTY ROCKCASTLE

COUNTY OF	FISCAL YEAR	SHEET NO.	TOT AL SHEETS
ROCKCASTLE		4H	1/64

ITEM # 08-143.00

RIGHT OF WAY PLANS FOR UTILITIES

STA. 6+560 END PROJECT

P.I. 6+409.682
Δ = 38°28'24" Lt.
R = 470.000m
T = 164.008m
L = 315.598m
E = 27.794m
e = 6.3%
Runoff = 60
Runout = 20

JOSEPH E. LAMBERT
JAMES H. LAMBERT
JACK HOLT
CURRY OIL CO.
JAMES E. HAMMONS
ELIZABETH A. HAMMONS
H.T. HARDY III
BRENDA S. HARDY
CB & R INVESTMENTS INC.
ISTORY COMM.
ISTORY BLOCK COMM.
ISTORY BRICK COMM.
CANOPY
AIR PUMP
GAS VENTS
TANK
EXIST. CONTROL ACCESS FENCE
EXIST. CONTROL ACCESS RAIL & FENCE
EXIST. COMPOSITE ACCESS FENCE
EXISTING MH STA. 6+318.5, 9.37m LT. RIM EL. 319.660 INV. EL. 316.240
NEW MANHOLE STA. 6+265.5, 13.75m LT. R/W EL. 318.900 INV. EL. 316.715
NEW MANHOLE STA. 6+324.0, 14m LT. RIM EL. 317.699 INV. EL. 316.680
NEW MANHOLE STA. 6+247, 16m RT. RIM EL. 320.600 INV. EL. 316.161
EXISTING MANHOLE STA. 6+334.5, 22.5m RT. RIM EL. 317.640, INV. EL. 315.290
EXISTING 150mm (6") SAN. SEWER FORCE MAIN
EXISTING 200mm (8") PVC SAN. SEWER FORCE MAIN
EXISTING 150mm (6") PVC SAN. SEWER
203mm PVC GRAVITY SEWER
457mm CMP
610mm (24") D.I. W.L.
610mm (24") PVC W.L.
305mm (12") D.I. W.L.
305mm (12") PVC FM.
200mm (8") PVC SAN. SEWER
50.0m PVT. WATER LINE
US 25
I-75 TO KNOXVILLE
I-75 TO LEXINGTON
PCP 17
PCP 18
PCP 20
PCP 21
PCP 22
BM #3
BM #3 SPIKE IN POWER POLE
34.17m RT. OF STA. 6+432.797
ELEV. 315.262

STA. 6+200.00, 13m RT. - STA. 6+315.00, 21m RT. INSTALL 115m OF 255mm (10") PVC SDR21 FORCE MAIN
STA. 6+200.00, 13m RT. - STA. 6+247.00, 16m RT. INSTALL 47m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 6+223.50, 14.5m RT. - STA. 6+236.00, 15m RT. INSTALL 13m OF 355mm (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+223.50, 15.5m RT. - STA. 6+238.00, 19m RT. INSTALL 13m OF 405mm (16") DIA. STEEL CASING PIPE, TRENCH
STA. 6+247.00, 16m RT. INSTALL (1) 1.2m (4') DIA. PRECAST CONCRETE MANHOLE
STA. 6+247.00, 16m RT. - STA. 6+334.50, 22.5m RT. INSTALL 91.44m OF 200mm (8") PVC SDR35 GRAVITY LINE
STA. 6+253.50, 16.5m RT. - STA. 6+267.50, 17m RT. INSTALL 11m OF 405mm (16") DIA. STEEL CASING PIPE, TRENCH
STA. 6+254.00, 15.5m RT. - STA. 6+267.00, 16m RT. INSTALL 11m OF 355mm (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+276.00, 18m RT. - STA. 6+291.50, 17m RT. INSTALL 16m OF 355 (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+276.00, 18.5m RT. - STA. 6+291.50, 18m RT. INSTALL 18m OF 405 (16") DIA. STEEL CASING PIPE, TRENCH
STA. 6+298.50, 17.5m RT. - STA. 6+321.00, 22m RT. INSTALL 23m OF 355 (14") DIA. STEEL CASING PIPE, TRENCH
STA. 6+315.00, 21m RT. TIE TO EXISTING 200mm (8") PVC FORCE MAIN (DRY CONNECTION)
STA. 6+315.00, 21m RT. INSTALL (1) 200mm (8") GATE VALVE & BOX
STA. 6+334.50, 22.5m RT. TIE TO EXISTING MANHOLE WITH NEW 200mm (8") PVC GRAVITY LINE (DRY CONNECTION)
STA. 6+308.50, 6.5m RT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+312.50, 12.5m RT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+314.00, 25.5m RT. ABANDON EXISTING 1.2m (4') DIA. MANHOLE*
STA. 6+200.00, 6.5m RT. - STA. 6+308.50, 6.5m RT. ABANDON 8.5m OF 200mm (8") PVC GRAVITY LINE
STA. 6+200.00, 9.5m RT. - STA. 6+260.00, 13.5m RT. ABANDON 60m OF 200mm (8") PVC FORCE MAIN

RT. STA. 6+230 CONST. 12.5m BIT. ENT.
RT. STA. 6+265 CONST. 10.5m BIT. ENT.
RT. STA. 6+282 CONST. 15.2m BIT. ENT.
RT. STA. 6+312 CONST. 24m BIT. ENT.

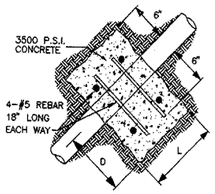
*EXISTING MANHOLES TO BE ABANDONED IN PLACE. REMOVE TOP SLAB, LID AND MANHOLE SECTIONS TO A DEPTH BELOW EXISTING GROUNDLINE. PLUG MANHOLE & BACKFILL WITH NO. 57 STONE OR FLOWABLE FILL. FLOWABLE FILL REQUIRES PRIOR ENGINEER APPROVAL.
APPLY NONSHRINK GROUT TO ANY REMAINING OPENINGS RESULTING FROM MANHOLE TIE-INS OR EXISTING PIPE REMOVAL

SCALE 1:500

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

FILE NAME: PLAN6.DGN
Cell Library: mroadway.cel
Cell Name: sp
28-OCT-1998 09:21

6-93
FORM NO. 2m



STRAIGHT PIPE

NOTE: DEPTH (D) MAY NOT BE SMALLER THAN SPECIFIED TO ALLOW FOR WORKING SPACE, PIERS SHALL BE PLACED AGAINST UNDISTURBED SOIL. PLACE CONCRETE ANCHORS 16'-0" C/C.

DIMENSIONS FOR ANCHOR BLOCKS							
PIPE SIZE	3"	4"	6"	8"	10"	12"	14"
STRAIGHT PIPE							
D	12"	12"	15"	15"	18"	18"	20"
L	18"	18"	24"	24"	30"	30"	32"

NOTE: SEE PLAN SHEETS FOR SIZE AND LOCATION OF PIPE

CONCRETE ANCHOR BLOCKS

NEW SEWER LINE TIE TO EXISTING MANHOLE

CUT HOLE IN EXISTING MANHOLE AT THE ELEVATION AND ANGLE SHOWN IN PLAN AND PROFILE SUCH THAT THE OPENING WILL BE A MINIMUM OF 2" LARGER IN DIAMETER THAN THE OUTSIDE DIAMETER OF THE PIPE.

CUT AWAY EXISTING MANHOLE BENCH AS REQUIRED TO PROVIDE ROOM FOR FORMING A TROUGH BETWEEN THE NEW SEWER AND THE EXISTING MANHOLE TFOUGH, SUCH AS THAT SHOWN IN THE TYPICAL JUNCTION MANHOLE DETAIL.

IF THE NEW SEWER LINE INVERT ELEVATION IS ABOVE THE EXISTING MANHOLE BENCH, FORM A NEW TRENCH WITH NON-SHRINK GROUT ON TOP OF THE BENCH TO PROVIDE A SMOOTH CONTINUOUS FLOW STREAM TO THE EXISTING TROUGH.

IF THE INVERT ELEVATION OF THE NEW SEWER LINE IS 2'-0" OR GREATER FROM THE BOTTOM OF THE EXISTING MANHOLE TROUGH, INSTALL A DROP FROM THE NEW SEWER LINE OUTSIDE THE MANHOLE THROUGH THE BOTTOM OF THE MANHOLE WALL AND BENCH AS DESCRIBED ABOVE AND AS SHOWN IN THE TYPICAL DROP MANHOLE DETAIL.

PLUG EXISTING SEWER LINES THROUGH MANHOLE TO STOP FLOW UNTIL TIE-IN AND REPAIR WORK IS COMPLETE AND GROUT HAS SET-UP SUCH THAT THE MANHOLE MAY BE PUT BACK INTO SERVICE. PROVIDE BY-PASS PUMPING OF SEWAGE CONTINUOUSLY, DURING THE TIME THAT THE MANHOLE IS PLUGGED, TO THE DOWNSTREAM MANHOLE IN ORDER TO MAINTAIN SEWER SERVICE.

CLEAN ANY OIL OR GREASE FROM THE CONTACT AREA OF WALL AND/OR BENCH OPENINGS USING SOLVENT AND DETERGENT. WIPE CLEAN AND DRY. ROUGHEN SURFACE WITH SCARIFIER OR OTHER TOOL.

COAT ENTIRE AREA OF EXISTING CONCRETE, WHICH IS TO RECEIVE GROUT, WITH EPOXY BONDING COMPOUND.

EPOXY BONDING, COMPOUND SHALL BE SIKADUR HIMOD, 100% SOLIDS, MOISTURE INSENSITIVE (OR ENGINEER APPROVED EQUAL), MIXED AND APPLIED AS PER MANUFACTURER'S INSTRUCTIONS.

MIX MASTERFLOW #928 NON-SHRINK GROUT (AS MANUFACTURED BY MASTER BUILDERS OR ENGINEER APPROVED EQUAL), TO A "DAMP" CONSISTENCY. ENOUGH WATER TO HYDRATE SHALL BE USED, BUT MIX SHALL REMAIN STIFF ENOUGH TO BE FIRMLY PACKED INTO OPENINGS. MANUFACTURER'S REPRESENTATIVE SHALL BE CONTACTED IN ADVANCE FOR ASSISTANCE IN MIXING AND PLACING THE GROUT. THE GROUT SHALL BE APPLIED WHILE THE EPOXY BONDING COMPOUND IS STILL "TACKY". FINISH FLUSH WITH FACE OF WALL, BENCH OR TROUGH AS SHOWN IN THE TYPICAL MANHOLE DETAILS.

MANHOLE NOTES

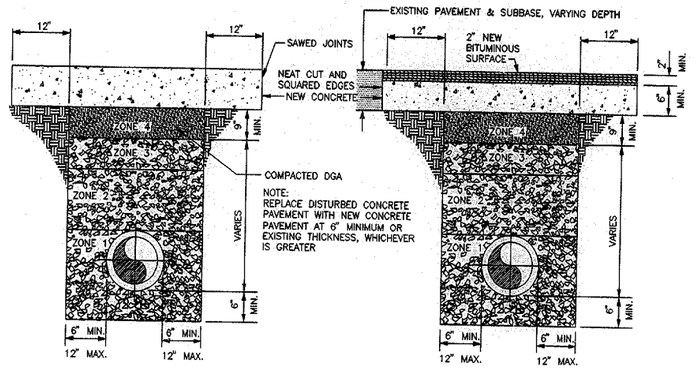
COAT OUTSIDE OF ADJUSTING RINGS WITH SEMI-FIBRATED ASPHALT DAMPROOFING COMPOUND APPLIED BY BRUSH OR SPRAY.

ALL BARREL JOINTS ARE TO HAVE 2" MASTIC SEALS. INSTALL SEALING COMPOUND IN ALL MANHOLE JOINTS TO INCLUDE BENEATH FRAME. AFTER SETTING ALL JOINTS SHALL BE FILLED AND FINISHED SMOOTH WITH NON-SHRINK GROUT.

AFTER INSTALLING STAINLESS STEEL PIPE CLAMP, PACK KOR-N-SEAL GASKET WITH NON-SHRINK GROUT & FINISH SUCH THAT GROUT IS EVEN WITH THE INVERT OF THE PIPE AND FORMS A SMOOTH CONTINUOUS SURFACE TO THE MANHOLE CHANNEL AND WALLS.

PROVIDE A MINIMUM FALL OF 0.1 FOOT FROM DROP MANHOLE OUTLET.

A DIFFERENCE OF FLOW ELEVATION MORE THAN 24" REQUIRES AN OUTSIDE DROP.



CONCRETE PAVEMENT

ORIGINAL BITUMINOUS SURFACING OVER 2"

NOTES:

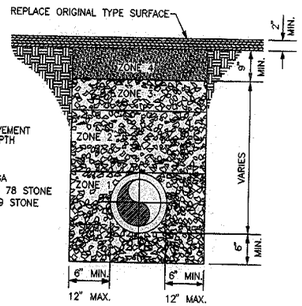
1. COVER UP TO AND INCLUDING ZONE 4 SHALL BE ESTABLISHED BEFORE TRENCH EXCAVATION.

2. ZONE 4 – 6" MIN. CONSOLIDATION EARTH BACKFILL INCLUDING TOPSOIL, NO ROCK ALLOWED.

3. ZONE 3 – CONSOLIDATED SOIL. (NO ROCK GREATER THAN 6" DIAMETER) NO. 9, 57 OR 78 STONE

4. ZONE 2 – FROM THE SPRINGLINE OF THE PIPE TO A DISTANCE 12 INCHES ABOVE THE PIPE, THE CONTRACTOR SHALL USE THE SAME MATERIAL AS SPECIFIED FOR BEDDING. COMPACTION IS REQUIRED IN AREAS SUBJECT TO TRAFFIC.

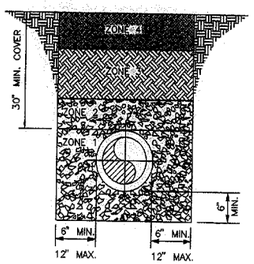
5. ZONE 1 – BEDDING MATERIAL. IN EARTH EXCAVATION AREAS, SHALL BE CLEAN EARTH, FREE FROM ROCKS, DEBRIS OR OTHER FOREIGN MATERIAL. THE CONTRACTOR SHALL USE CRUSHED STONE, SAND OR GRAVEL AS BEDDING MATERIAL WHERE ROCK EXCAVATION IS ENCOUNTERED.



NOTE:
REPLACE BITUMINOUS PAVEMENT WITH SAME TYPE AND DEPTH AS EXISTING PAVEMENT

ZONE 4 – COMPACTED DGA
ZONE 3 – NO. 9, 57, OR 78 STONE
ZONE 2 – 12" MIN. NO. 9 STONE
ZONE 1 – NO. 9 STONE

ORIGINAL BITUMINOUS SURFACING 2" OR LESS AND TRAFFIC BOUND MACADAM



PIPE LAID IN ROCK OR EARTH TRENCH

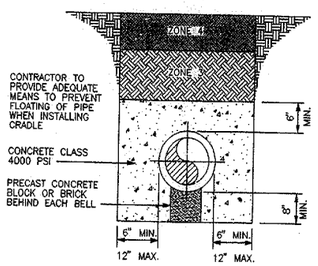
NOTE:
COVER UPTO AND INCLUDING ZONE 4 SHALL BE ESTABLISHED BEFORE TRENCH EXCAVTION

ZONE 4 – 6" MIN. CONSOLIDATION EARTH BACKFILL INCLUDING TOPSOIL, NO ROCK ALLOWED

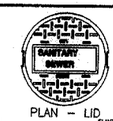
ZONE 3 – CONSOLIDATED SOIL (NO ROCK GREATER THAN 6" DIAMETER) NO. 9, 57 OR 78 STONE

ZONE 2 – 12" MIN., NO. 9 STONE

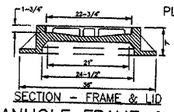
ZONE 1 – NO. 9 STONE



STANDARD CONCRETE ENCASEMENT (NOTE: AS REQUIRED BY DESIGN)

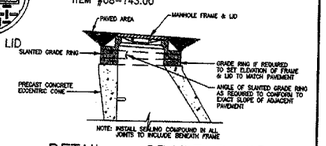


PLAN – LID



SECTION – FRAME & LID

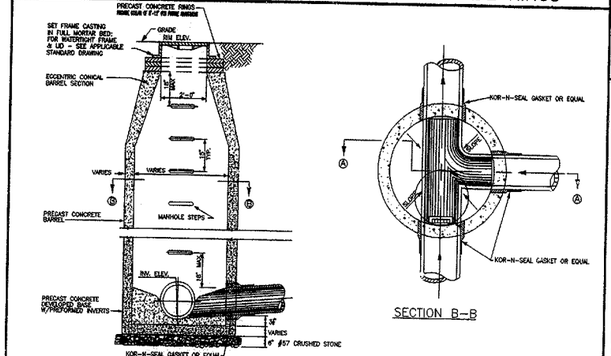
MANHOLE FRAME & LID



DETAIL – GRADE RINGS

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		14 J	104

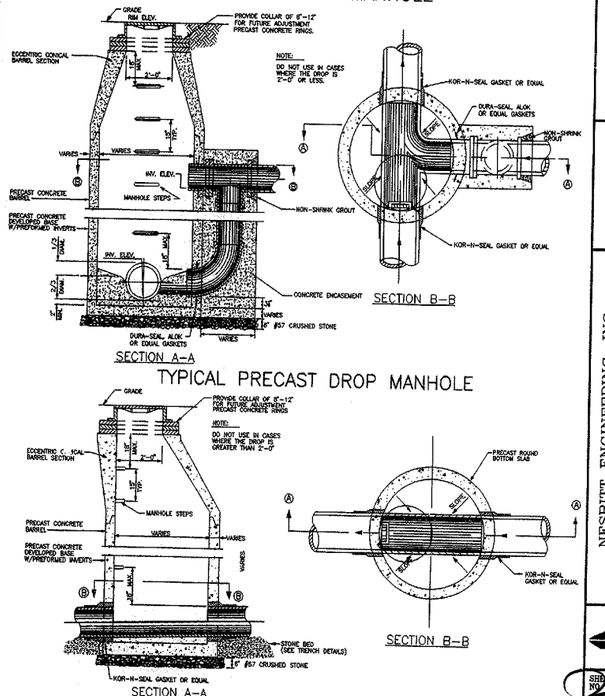
ITEM #08-143.00



SECTION A–A

SECTION B–B

TYPICAL JUNCTION MANHOLE



SECTION A–A

SECTION B–B

TYPICAL PRECAST DROP MANHOLE

SECTION A–A

SECTION B–B

TYPICAL PRECAST MANHOLE

REVISIONS:

CITY OF MT. VERNON
ROCKCASTLE COUNTY, KENTUCKY
US 25 SANITARY SEWER RELOCATION

STANDARD DETAILS

NESBITT ENGINEERING, INC.
ENGINEERS - SURVEYORS - SCIENTISTS
416 PARK PLACE, LEXINGTON, KENTUCKY 40511

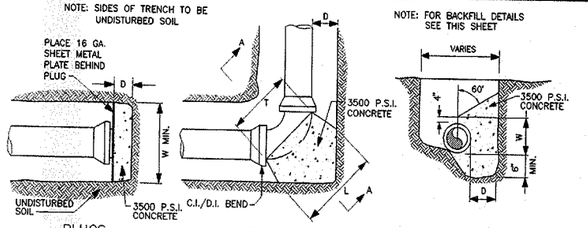
DRAWN BY: KCW | JOB NO.: 7705.18 | SCALE: NOT TO SCALE | DESK/FILE NAME: TYPICAL1.DWG
DATE: JANUARY, 1999

SHEET NO. 30

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		14 K	104

ITEM #08-143.00

NOTE: SIDES OF TRENCH TO BE UNDISTURBED SOIL

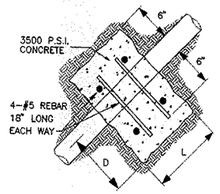


PLUGS

BENDS

NOTE: FOR BACKFILL DETAILS SEE THIS SHEET

SECTION A-A

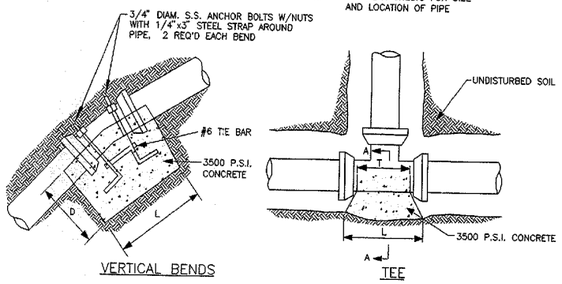


STRAIGHT PIPE

NOTE: DEPTH (D) MAY NOT BE SMALLER THAN SPECIFIED TO ALLOW FOR WORKING SPACE, PIERS SHALL BE PLACED AGAINST UNDISTURBED SOIL. PLACE CONCRETE ANCHORS 25'-0" c/c.

DIMENSIONS FOR THRUST AND ANCHOR BLOCKS							
PIPE SIZE	3"	4"	6"	8"	10"	12"	14"
PLUGS							
D	6"	6"	6"	6"	6"	6"	6"
L&W	16"	18"	20"	22"	24"	26"	28"
EIGHT BEND (45°), 1/16 BEND (22-1/2°)							
D	6"	6"	6"	6"	6"	6"	6"
L	14"	16"	18"	20"	22"	24"	26"
T	12"	14"	16"	18"	20"	22"	24"
W	6"	8"	12"	14"	16"	18"	20"
QUARTER BEND (90°)							
D	6"	6"	8"	10"	10"	10"	12"
L	18"	21"	24"	27"	30"	33"	36"
T	12"	14"	16"	18"	20"	22"	24"
W	6"	8"	12"	16"	18"	20"	22"
VERTICAL BEND & STRAIGHT PIPE							
D	12"	12"	15"	15"	18"	18"	20"
L	18"	18"	24"	24"	30"	30"	32"
T	12"	14"	16"	18"	20"	22"	24"

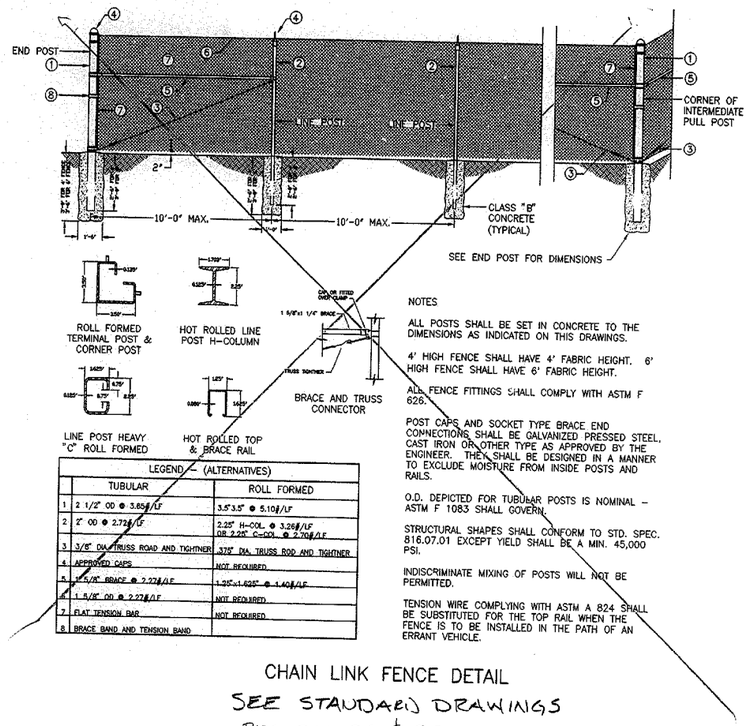
NOTE: SEE PLAN SHEETS FOR SIZE AND LOCATION OF PIPE



VERTICAL BENDS

TEE

CONCRETE ANCHOR BLOCKS



LEGEND (ALTERNATIVES)		
	TUBULAR	ROLL FORMED
1	2 1/2" OD @ 3.65#/LF	3.5"x3.5" @ 5.10#/LF
2	2" OD @ 2.72#/LF	2.25" H-COL @ 3.26#/LF OR 2.25" C-COL @ 2.70#/LF
3	3/8" DIA TRUSS ROAD AND TIGHTNER	.375" DIA. TRUSS ROD AND TIGHTNER
4	APPROVED CAPS	NOT REQUIRED
5	1 5/8" BRACE @ 2.27#/LF	1.25"x1.625" @ 1.40#/LF
6	1 5/8" OD @ 2.27#/LF	NOT REQUIRED
7	FLAT TENSION BAR	NOT REQUIRED
8	BRACE BAND AND TENSION BAND	

NOTES

ALL POSTS SHALL BE SET IN CONCRETE TO THE DIMENSIONS AS INDICATED ON THIS DRAWINGS.

4' HIGH FENCE SHALL HAVE 4' FABRIC HEIGHT. 6' HIGH FENCE SHALL HAVE 6' FABRIC HEIGHT.

ALL FENCE FITTINGS SHALL COMPLY WITH ASTM F 626.

POST CAPS AND SOCKET TYPE BRACE END CONNECTIONS SHALL BE GALVANIZED PRESSED STEEL, CAST IRON OR OTHER TYPE AS APPROVED BY THE ENGINEER. THEY SHALL BE DESIGNED IN A MANNER TO EXCLUDE MOISTURE FROM INSIDE POSTS AND RAILS.

O.D. DEPICTED FOR TUBULAR POSTS IS NOMINAL - ASTM F 1083 SHALL GOVERN.

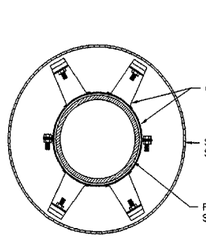
STRUCTURAL SHAPES SHALL CONFORM TO STD. SPEC. 816.07.01 EXCEPT YIELD SHALL BE A MIN. 45,000 PSI.

INDISCRIMINATE MIXING OF POSTS WILL NOT BE PERMITTED.

TENSION WIRE COMPLYING WITH ASTM A 824 SHALL BE SUBSTITUTED FOR THE TOP RAIL WHEN THE FENCE IS TO BE INSTALLED IN THE PATH OF AN ERRANT VEHICLE.

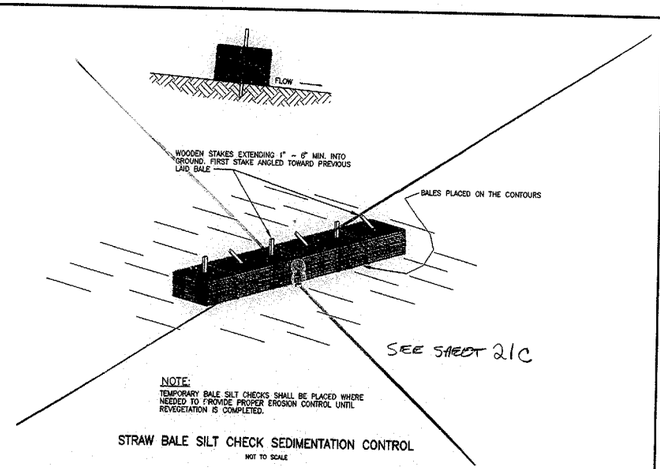
CHAIN LINK FENCE DETAIL

SEE STANDARD DRAWINGS RFC-001-06 & RFW-001-03



NOTE: CARRIER PIPE SHALL BE INSERTED WITHIN CASING BY USE OF MODEL CCS STAINLESS STEEL CASING SPACERS AS MANUFACTURED BY CASCADE WATERWORKS MFG. CO. OR ENGINEER APPROVED EQUAL. INSTALL A MINIMUM OF THREE (3) 8" WIDE CASING SPACERS PER PIPE LENGTH PLACED ON SIX (6) FOOT CENTERS.

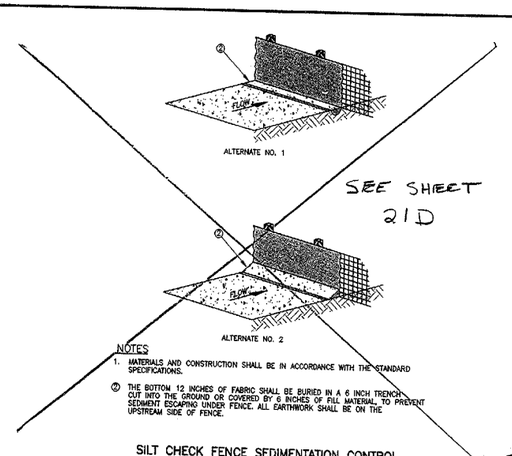
CASING SPACER DETAIL



NOTE:
TEMPORARY BALE SILT CHECKS SHALL BE PLACED WHERE NEEDED TO PROVIDE PROPER EROSION CONTROL UNTIL REVEGETATION IS COMPLETED.

STRAW BALE SILT CHECK SEDIMENTATION CONTROL

NOT TO SCALE



NOTES

1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
2. THE BOTTOM 12 INCHES OF FABRIC SHALL BE BURIED IN A 6 INCH TRENCH CUT INTO THE GROUND OR COVERED BY 6 INCHES OF FILL MATERIAL, TO PREVENT SEDIMENT ESCAPING UNDER FENCE. ALL EARTHWORK SHALL BE ON THE UPSTREAM SIDE OF FENCE.

SILT CHECK FENCE SEDIMENTATION CONTROL

NOT TO SCALE

CITY OF MT. VERNON
ROCKCASTLE COUNTY, KENTUCKY
US 25 SANITARY SEWER RELOCATION

STANDARD DETAILS

REVISIONS:

NESBITT ENGINEERING, INC.
ENGINEERS - SURVEYORS - SCIENTISTS
415 PARK PLACE, LEXINGTON, KENTUCKY 40511

DRAWN BY: JCW
DATE: JANUARY, 1999
JOB NO.: 706.18
DISK/FILE NAME: TYPICAL2.DWG
SCALE: NOT TO SCALE

SHEET NO. 31

RIGHT OF WAY SUMMARY

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		15	104

ITEM # 08-143.00

PARCEL NO.	NAME	TOTAL AREA OF TRACT (HECTARE / ACRE)	PERMANENT R/W ACQUIRED (HECTARE / ACRE)	EASEMENTS PERMANENT (sq m / sq ft)	EASEMENTS TEMPORARY (sq m / sq ft)	EASEMENTS CONSTRUCTION (s m / sq ft)	AREA SEVERED LEFT (HECTARE / ACRE)	AREA SEVERED RIGHT (HECTARE / ACRE)	EXCESS PURCHASED (HECTARE / ACRE)	PORTION REMAINING (HECTARE / ACRE)	SEWER SYSTEM TYPE	SEWER SYSTEM AFFECTED BY PROJECT YES	SEWER SYSTEM AFFECTED BY PROJECT NO	BUILDINGS ACQUIRED NUMBER C	R	F	S	HAZARDOUS WASTE	REMARKS
1	NOT USED																		
2	S.S.C. DEVELOPMENT COMPANY	1.238 3.060 C	0.299 0.738	268 2881	151 1626			0.912 2.256		0.912 2.256		1		1					DEED BOOK 114 PAGE 43-45
3	JAMES LAMBERT CARTER HOSKINS	0.361 0.894 C	0.170 0.421					0.191 0.473		0.191 0.473									DEED BOOK 135 PAGE 346 DEED BOOK 83 PAGE 469
4	GUY MARTIN DOROTHY " (wf.)	9.308 23.000 C	0.104 0.258					9.204 22.742		9.203 22.742									DEED BOOK 135 PAGE 402
5	NOT USED																		
6	JOSEPH LAMBERT JAMES LAMBERT	0.486 1.200 D			954 10269														DEED BOOK 109 PAGE 459
7	NOT USED																		
8	H. T. HARDY BRENDA S. HARDY(wf.)	0.370 0.915 D			302 3248														DEED BOOK 162 PAGE 565
9	LESSEE-McDONALD'S CORP. LESSOR-JAMES LAMBERT CARTER HOSKINS DWIGHT HOSKINS DONITA " (wf.)	0.002 0.006 D	0.002 0.006							0 0									LEASE BOOK 23 PAGE 444
10	NOT USED																		

NOTE: PERMANENT R/W ACQUIRED + PERMANENT EASEMENT + AREA SEVERED = TOTAL AREA OF TRACT.

D DENOTES DEED
C CALULATED AREA

TYPE SEWER SYSTEM
1. PRIVATE - INDIVIDUAL
2. PRIVATE - MULTI PARTY
3. PUBLIC
4. NONE
5. NOT APPLICABLE

BUILDINGS ACQUIRED CODE
C - COMMERICAL
R - RESIDENTIAL
F - FARM
S - STORAGE

HAZARDOUS WASTE
UST - UNDERGROUND STORAGE TANK

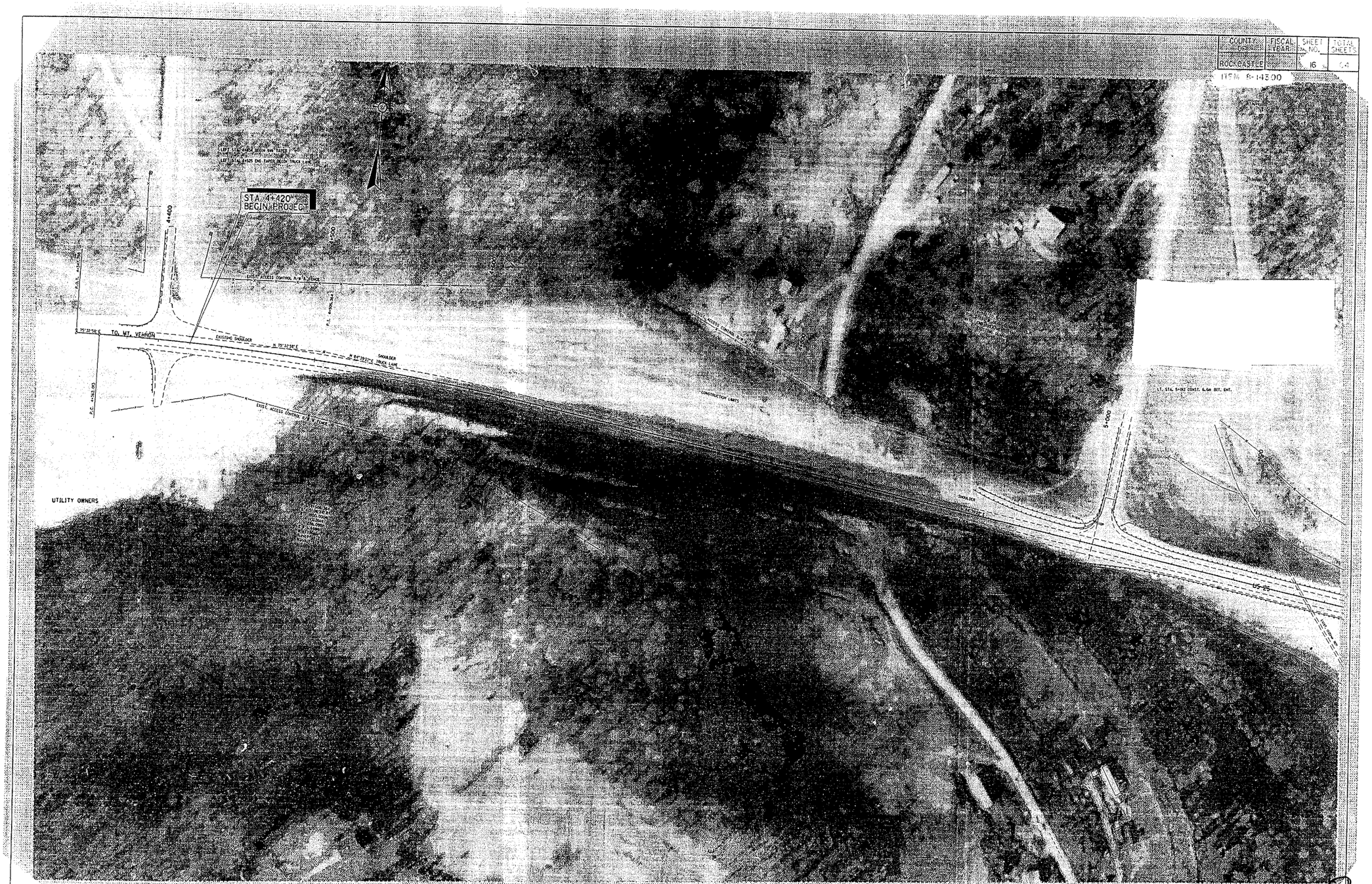
PREPARED BY ____ DATE ____
CHECKED BY ____ DATE ____
APPROVED BY ____ DATE ____

FILE NAME: US25M.DGN
SAVED VIEW: R/W SUM
Cell Library: mroadway.cel
Cell Name: srws
16-FEB-1999 11:57

6-93
FORM NO. 7m

COUNTY OR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		16	44

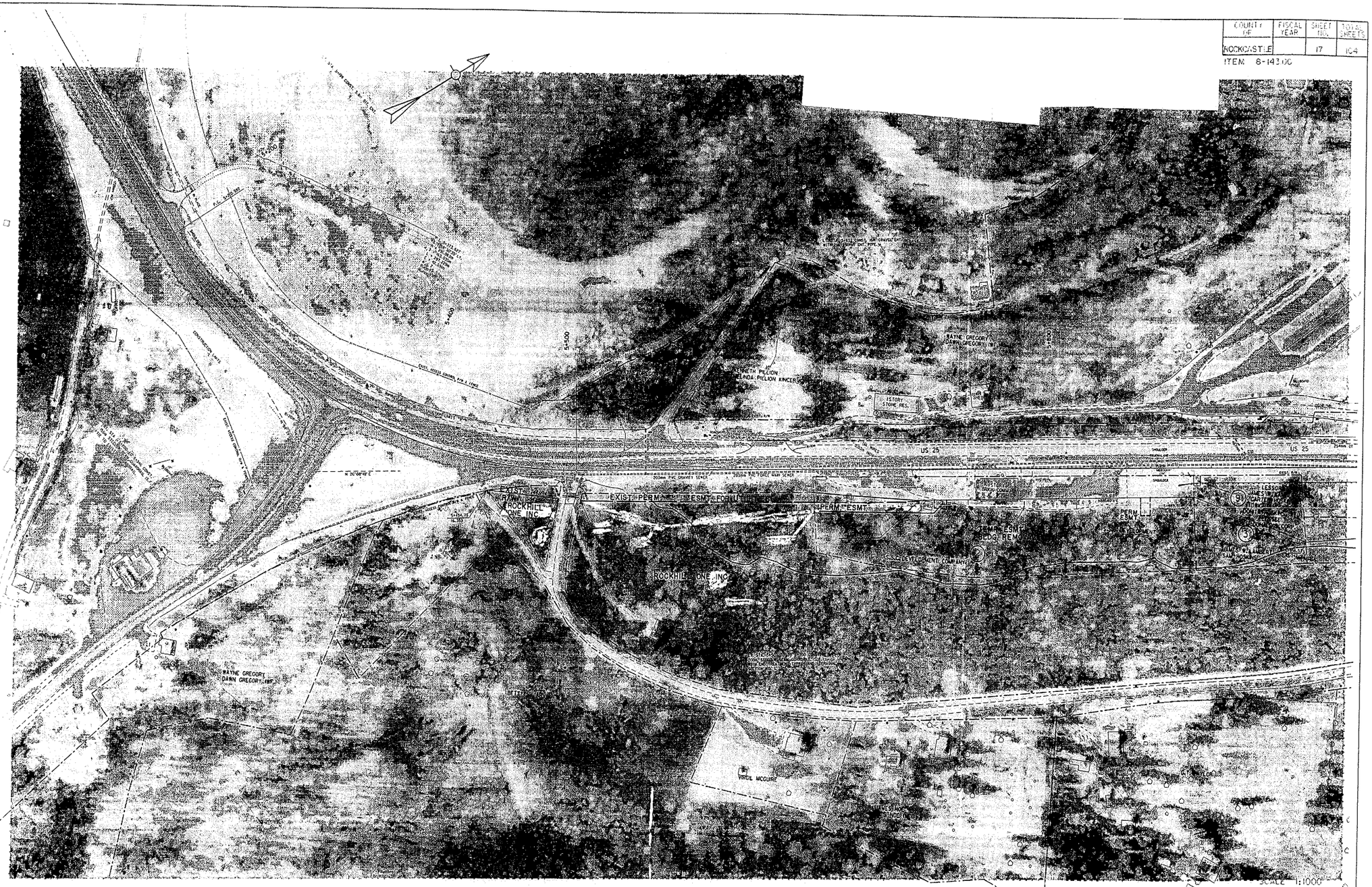
ITEM 8-143.00



SCALE: 1"=33'

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		17	104

ITEM 8-143.00



34

COUNTY	FEDERAL PROJECT	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		15	104

ITEM 8-143.00

STA. 5+560
END PROJECT

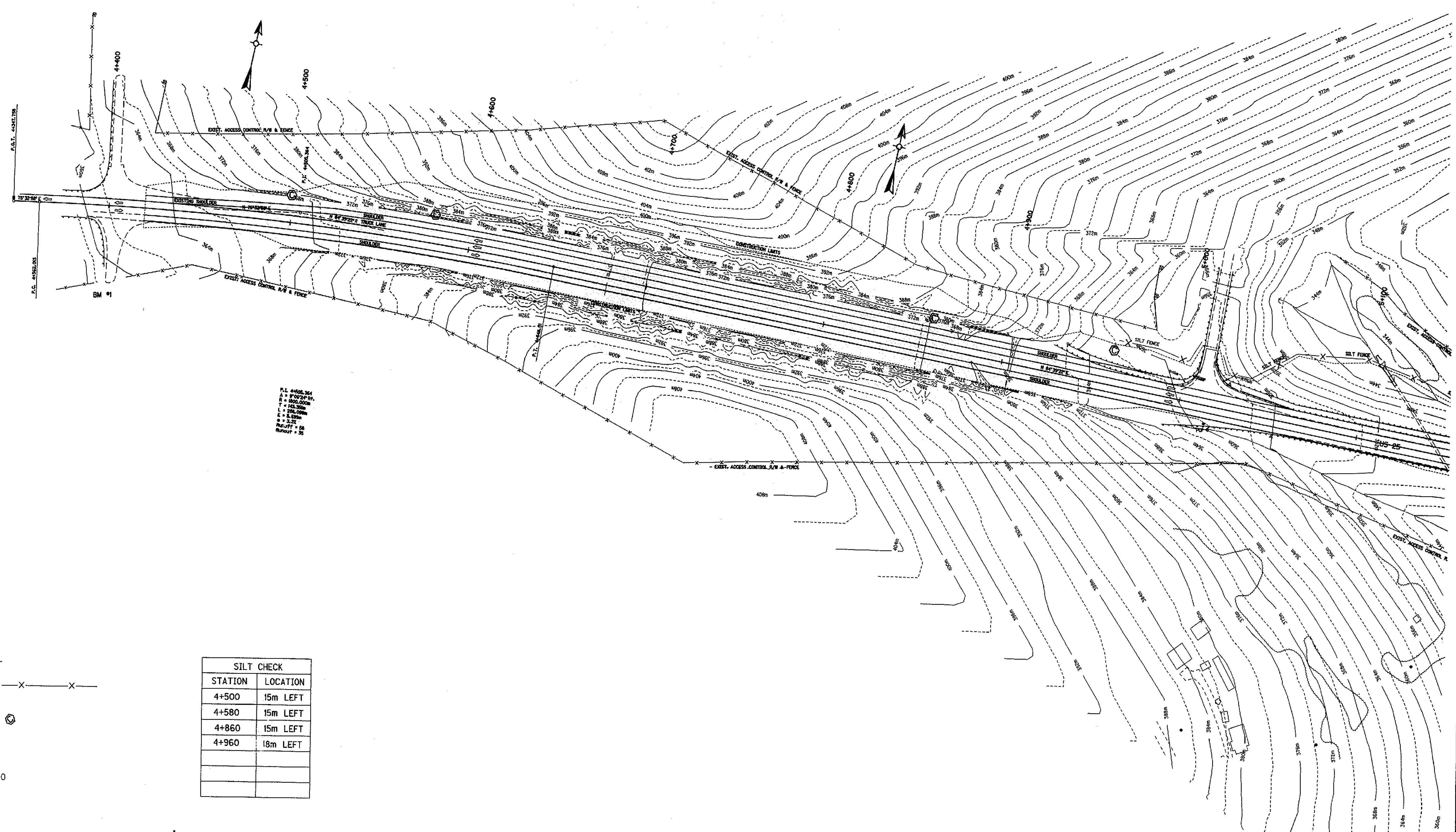
SCALE 1:1000

35

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		19	104

ITEM # 8-143.00

EROSION CONTROL PLAN



PREPARED BY ______ DATE ______
CHECKED BY ______ DATE ______
APPROVED BY ______ DATE ______

Cell Library: mroadway.cel
Cell Name: sp
16-FEB-1999 13:19

6-93
FORM NO. 2m

LEGEND

SILT FENCE —x———x—

SILT CHECK

SCALE 1:1000

SILT CHECK	
STATION	LOCATION
4+500	15m LEFT
4+580	15m LEFT
4+860	15m LEFT
4+960	18m LEFT

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		20	104

ITEM # 8-143.00

LEGEND

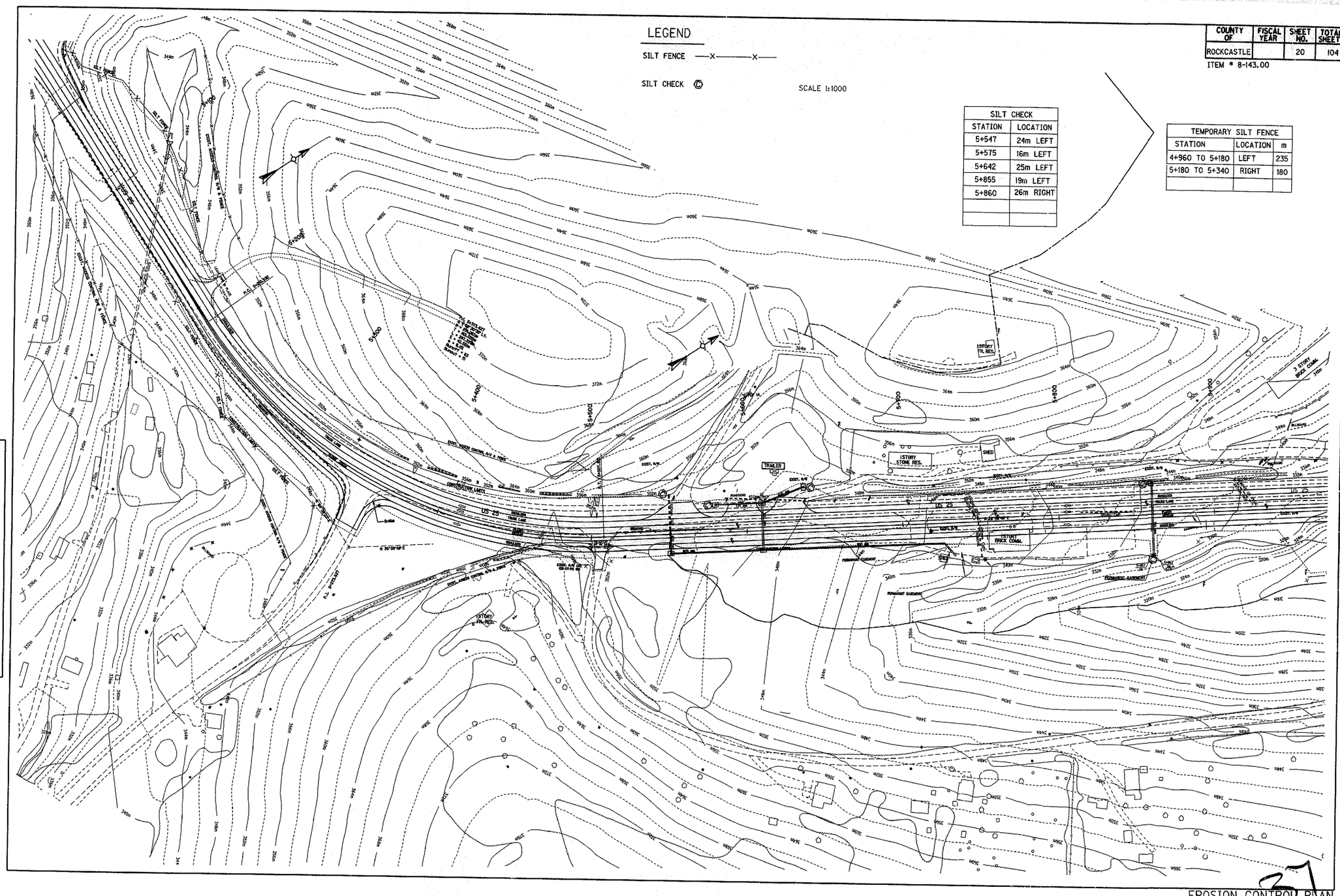
SILT FENCE —X———X—

SILT CHECK Ⓒ

SCALE 1:1000

SILT CHECK	
STATION	LOCATION
5+547	24m LEFT
5+575	16m LEFT
5+642	25m LEFT
5+855	19m LEFT
5+860	26m RIGHT

TEMPORARY SILT FENCE		
STATION	LOCATION	m
4+960 TO 5+180	LEFT	235
5+180 TO 5+340	RIGHT	180



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CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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Cell Name: sb
16-FEB-1999 13:26

6-93
FORM NO. 2m

EROSION CONTROL PLAN

27

EROSION CONTROL PLAN

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		21	104

ITEM # 8-143.00

SILT CHECK	
STATION	LOCATION
6+000	19m LEFT
6+003	24m RIGHT
6+067	33m RIGHT
6+080	31m RIGHT
6+080	24m LEFT
6+236	17m LEFT

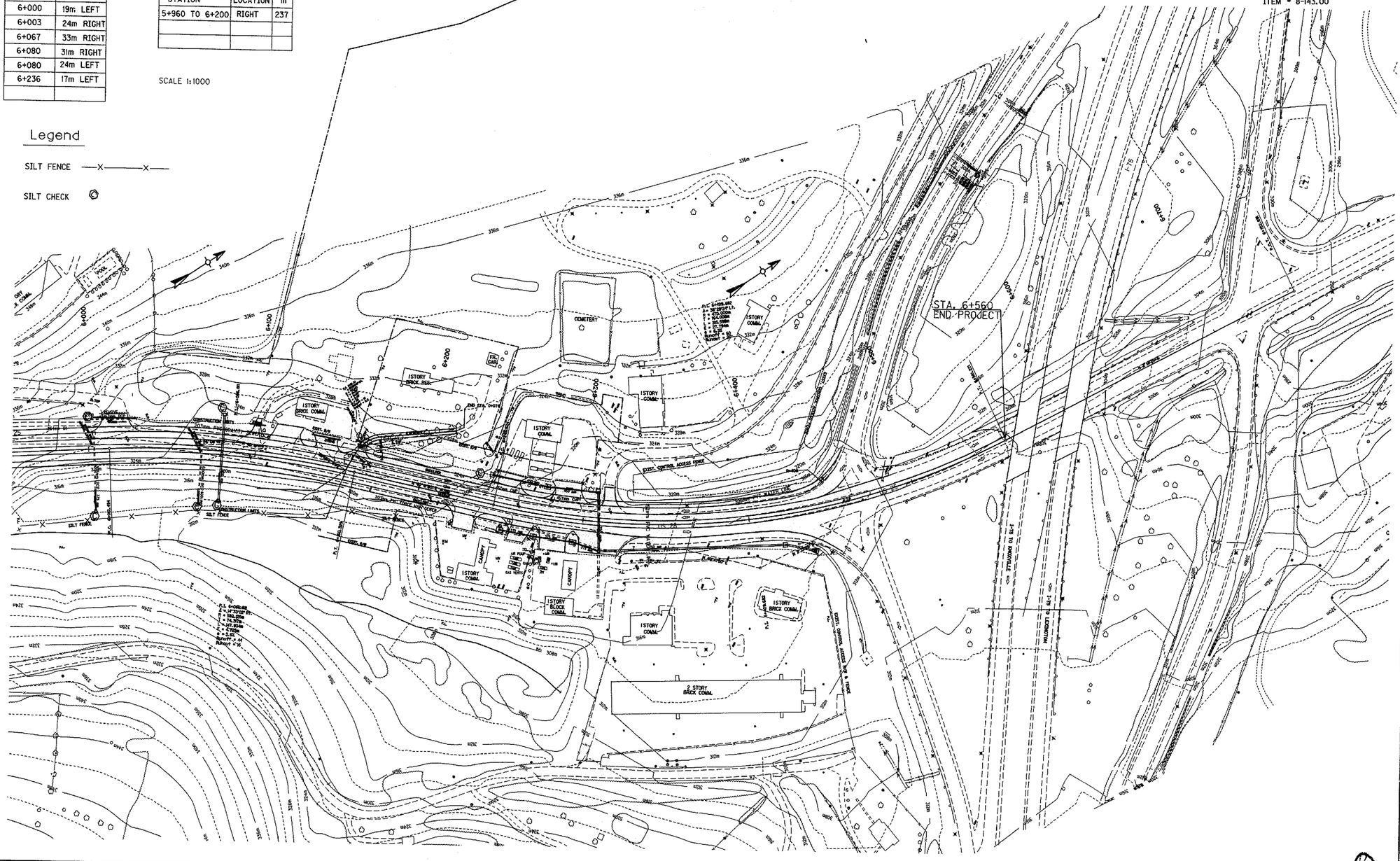
TEMPORARY SILT FENCE		
STATION	LOCATION	m
5+960 TO 6+200	RIGHT	237

SCALE 1:1000

Legend

SILT FENCE —X—X—

SILT CHECK



PREPARED BY _____ DATE _____

CHECKED BY _____ DATE _____

APPROVED BY _____ DATE _____

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16-FEB-1999 13:28

6-93
FORM NO. 2m

TRAFFIC CONTROL NOTE SHEET

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		21a	104

ITEM# 8-143.00

TRAFFIC CONTROL NOTES

LANE WIDTH

THE CONTRACTOR SHALL MAINTAIN A TWO-LANE TRAVELED WAY WITH A MINIMUM LANE WIDTH OF 3.3 METERS; HOWEVER, DURING WORKING HOURS, ONE-WAY TRAFFIC MAY BE ALLOWED AT THE DISCRETION OF THE ENGINEER, PROVIDED ADEQUATE SIGNING AND A FLAGPERSON ARE AT THE LOCATION.

BLASTING

DURING BLASTING OPERATIONS, TRAFFIC MAY BE HALTED A MAXIMUM OF 20 MINUTES PER HOUR TO ALLOW THE EXECUTION OF THE "SHOT" AND TO ALLOW FOR THE REMOVAL OF ROCK FRAGMENTS AND DEBRIS. BLASTING WILL NOT BE PERMITTED BETWEEN THE HOURS OF 7:30 AM AND 8:30 AM AND BETWEEN THE HOURS OF 3:30 PM AND 5:00 PM.

PROJECT PHASING

PHASE 1

TRAFFIC SHALL BE MAINTAINED ON THE EXISTING ROADWAY FROM STA. 4+420 TO STA. 6+560. CONSTRUCT THE ROCK CUT FROM STA. 4+420 TO STA. 5+000. CONSTRUCT THE FILLS FROM STA. 5+000 TO 6+560. CONSTRUCT THE PAVEMENT THROUGH THE BASE COURSE IN THE AREAS THAHT HAVE BEEN WIDENED.

PHASE 2

SHIFT TRAFFIC TO THE NEW LANES FROM STA. 5+300 TO STA. 6+560 AND COMPLETE CONSTRUCTION ALONG THE EXISTING ROADWAY. THE FINAL SURFACE COURSE SHALL BE COMPLETED UNDER TRAFFIC USING PART-WIDTH CONSTRUCTION.

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

Cell Library: mroadway.cel
Cell Name: SD
19-FEB-1999 14:09

6-93
FORM NO. 2m

METRIC

MOISTURE DENSITY - FAMILY OF CURVES

OPTIMUM MOISTURE %

DRY DENSITY (Kg/m³)

FAMILY OF CURVES - ONE POINT METHOD

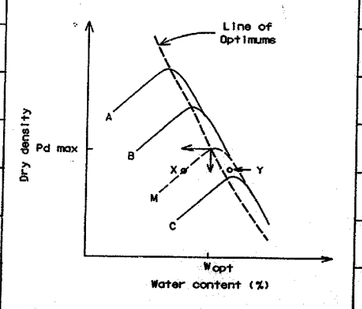
The one point method may be used to determine the maximum density and optimum moisture of soils when minimal soils information is available, soils are highly variable, or when time does not permit to perform a complete compaction test. When the one point method is applicable, an adequate amount of soil shall be obtained from the location where the the field density tests are to be performed. Two restrictions are necessary for the one point method:

1. During compaction, the mold shall be placed on a smooth solid surface such as a concrete headwall, counter weight of a crane, etc.. Asphalt pavement or compacted soil should not be used.

2. The moisture content of the soil shall be dry of optimum (preferably not less than 4 percent) and never more than optimum.

The reason for the second requirement is illustrated in the example below. By drawing a line parallel to the dry side of optimum of curves A, B, and C through the one point X a reasonable approximation of the dry density may be obtained. However, if a point such as Y was obtained it would be difficult to distinguish which laboratory curve the soil belonged to.

Reference: Holtz, Robert D. and Kovacs, William D.(1981) "An Introduction to Geotechnical Engineering"



PROCEDURE

1. Perform one point of a standard moisture-density test in accordance with KM 64-511. The moisture content of the sample should never exceed the optimum water content.

2. Plot the dry density and optimum moisture as a point on the family of curve graph.

3. If the one-point falls on one of the curves in the family of curves the maximum dry density and optimum moisture content defined by the curve shall be used (Note 1).

4. If the one-point falls within the family but not on a curve, a new curve shall be drawn through the plotted one-point parallel and in character with the nearest existing curve in the family of curves. The maximum dry density and optimum moisture content as defined by the new curve shall be used (Note 1).

NOTE 1: If the one point plotted within or on the family of curves does not fall in the 80 to 100 percent of optimum range, compact another specimen, using the same material, at an adjusted moisture content that will place the one-point within this range.

5. If the family of curves is such that the profile of a new curve to be drawn through a one-point is not well defined or in any way questionable, then a full moisture-density relationship shall be made for the soil in question to correctly define the new curve and verify the applicability of the family of curves (Note 2).

NOTE 2: New curves drawn through plotted one-point determinations shall not become a permanent part of the family of curves until verified by a full moisture-density relationship.

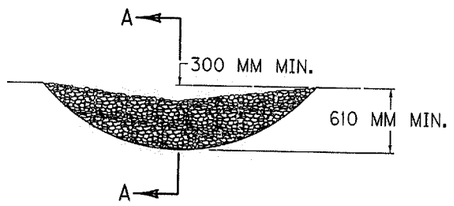
COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		21b	104

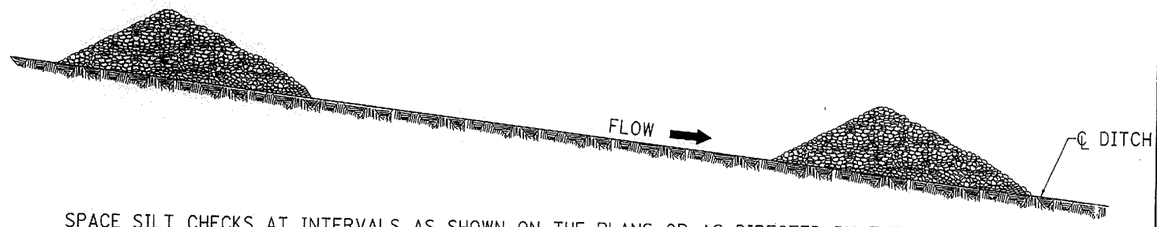
ITEM # 8-1430

DATE 8-1-85

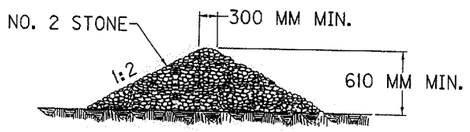
COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		21c	104

ITEM # 8-143.0





SPACE SILT CHECKS AT INTERVALS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.



SECTION "A"

DRAWN T. S. GATEWOOD 12-96
CHECKED D. H. McALISTER 1-97
RECOMMENDED
APPROVED F.H.W.A.

KENTUCKY
DEPARTMENT OF HIGHWAYS

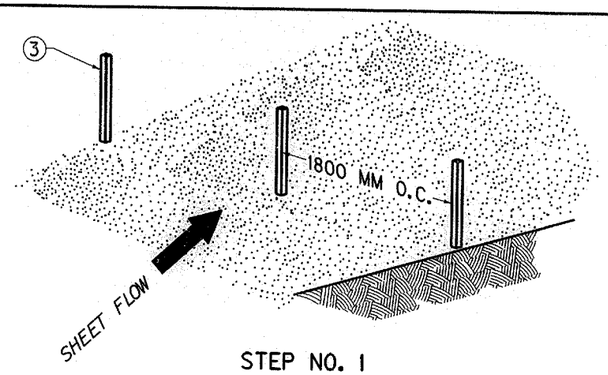
SILT CHECK TYPE II & III
CRUSHED STONE

SUBMITTED [signature] ASST. DIRECTOR DIVISION OF DESIGN 2-17-98 DATE

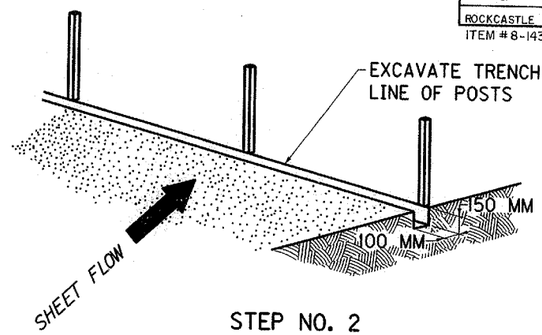
APPROVED STATE HIGHWAY ENGINEER DATE

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		21d	104

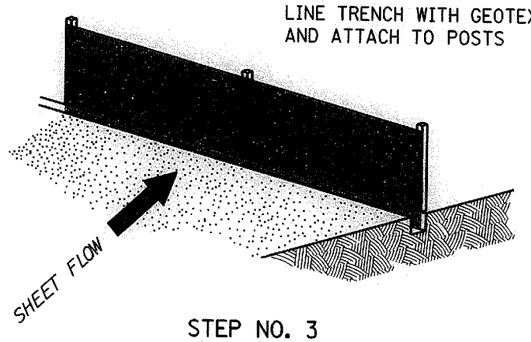
ITEM # 8-143.0



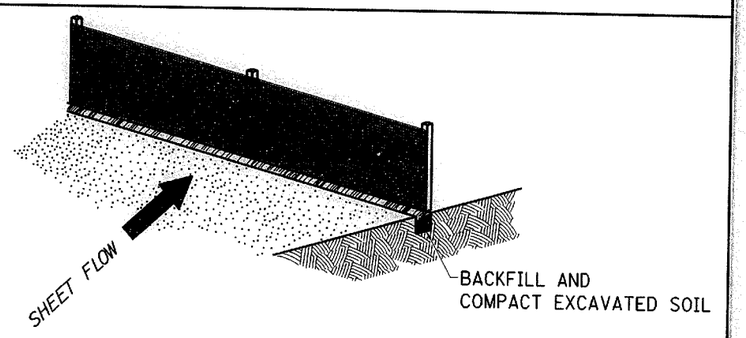
STEP NO. 1



STEP NO. 2



STEP NO. 3



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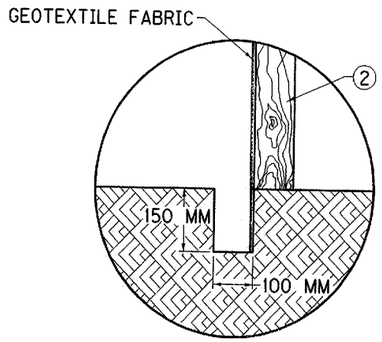


SECTIONAL DETAIL

NOTES

1. SEE STANDARD SPECIFICATIONS FOR POST SIZE, GEOTEXTILE FABRIC, WIRE STAPLES AND ALL OTHER PERTINENT INFORMATION.
2. (2) POSTS MAY BE WOODEN OR METAL T-SECTION.
3. (3) POSTS SHALL BE SET 400 MM DEEP.

DRAWN T. S. GATEWOOD DATE 12-96
CHECKED D.H. McALISTER 1-97
RECOMMENDED
APPROVED F.H.W.A.

KENTUCKY
DEPARTMENT OF HIGHWAYS

TEMPORARY
SILT FENCE

SUBMITTED William S. Gates 2-17-98
ASST. DIRECTOR DIVISION OF DESIGN DATE

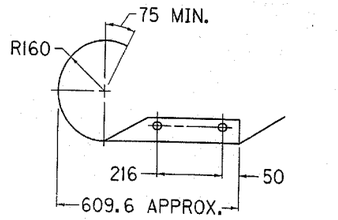
APPROVED
STATE HIGHWAY ENGINEER DATE

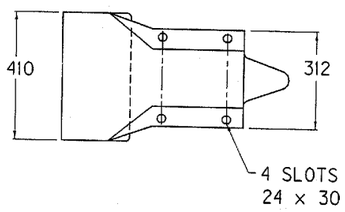
DRAWING SCALE:

DIAPHRAGM PLATE PLAN VIEW : 1½"= 1'-0"
SECTION "A-A", "B-B"
DETAIL BREAKAWAY LINE POST : FULL SIZE
TERMINAL SECTION NO. 1: 1½"= 1'- 0"
TERMINAL SECT ON NO. 2: 1½" = 1'-0"
TERMINAL SECTION NO. 3 FLAT PLATE LAYOUT: 1½"= 1'- 0"
TERMINAL SECTION NO. 4: 1½" = 1'-0"

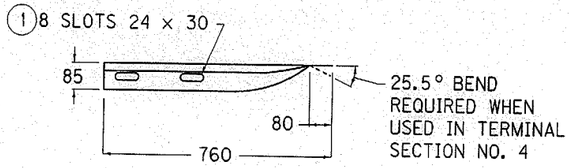
COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		21e	104

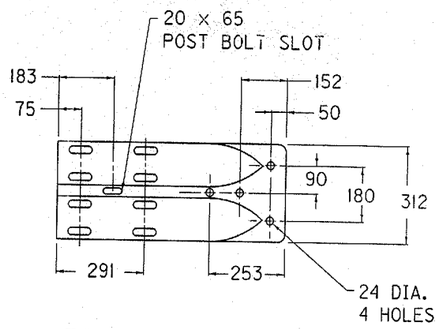
ITEM # 8-143.0



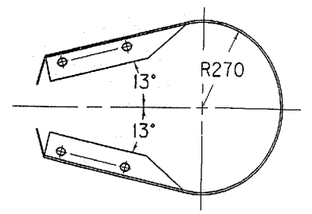


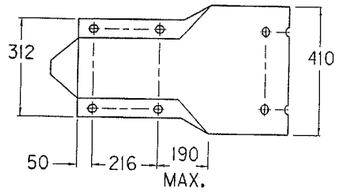
TERMINAL SECTION NO. 1





TERMINAL SECTION NO. 2





TERMINAL SECT. NO. 3

NOTES

TERMINAL SECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID EACH COMPLETE AND INSTALLED, EXCEPT WHEN INCIDENTAL TO OTHER BID ITEMS.

TERMINAL SECTIONS SHALL COMPLY WITH AASHTO M-180 AS FOLLOWS:
- a. TERMINAL SECTIONS NO. 1, 3, -CLASS A OR B, TYPE 2
- b. TERMINAL SECTION NO. 2-CLASS B, TYPE 2

(1) WHEN SLOTTED HOLES ARE EXPOSED (8) EIGHT RECTANGULAR FLAT WASHERS SHALL BE REQUIRED-50 MM SPLICE BOLTS ARE TO BE USED IF NEEDED.

2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.

DATE 5-5-98
DRAWN T. S. GAITWOOD
CHECKED D.H. McALISTER
RECOMMENDED [signature] 5-38
APPROVED F.H.W.A.

DATE 5-42
FORM NO. 10

KENTUCKY
DEPARTMENT OF HIGHWAYS

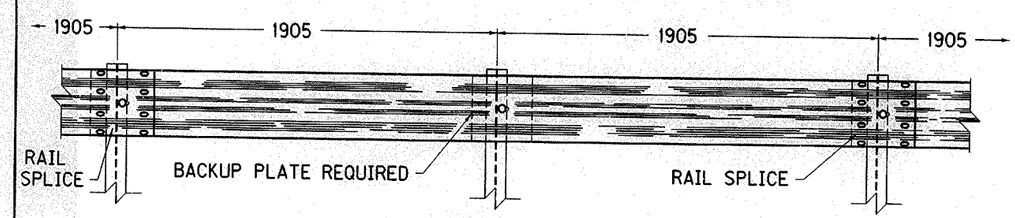
GUARDRAIL
TERMINAL SECTIONS

SUBMITTED [signature] ASSIST. DIRECTOR DIVISION OF DESIGN 10-1-98 (DATE)

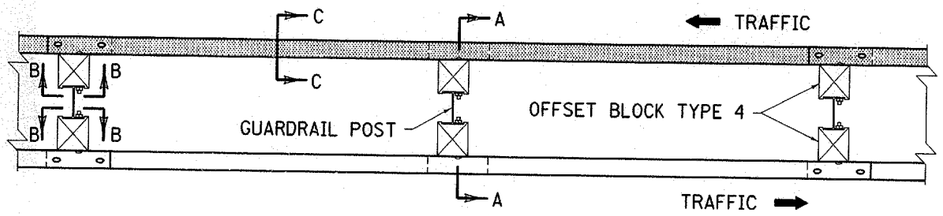
DRAWING SCALE:
ELEVATION & PLAN VIEW 1" = 1'
BACK-UP PLATE & RAIL SPLICE 3/16" = 1"
SECTION A-A 1½" = 1'
SECTION B-B & SECTION C-C 3" = 1'

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		211	104

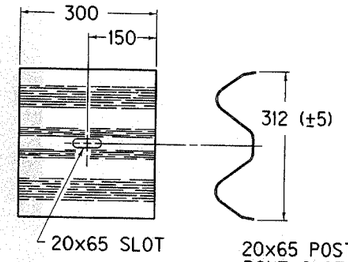
ITEM # 8-143.0



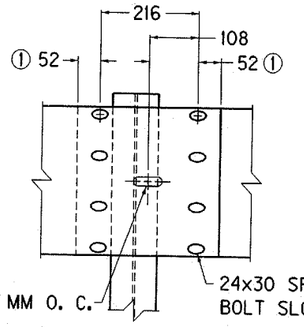
ELEVATION VIEW



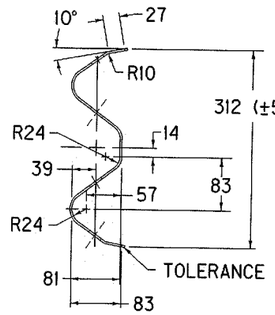
PLAN VIEW
(DOUBLE FACE RAIL OR SINGLE FACE RAIL)



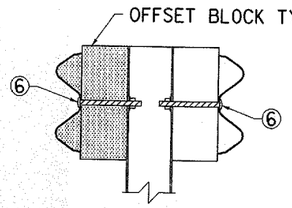
BACK-UP PLATE



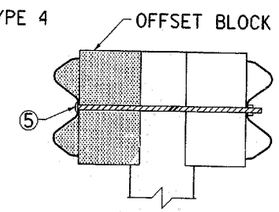
RAIL SPLICE ②



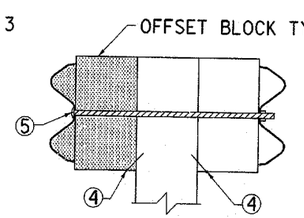
SECTION C-C
(RAIL CORRUGATED
SHEET STEEL BEAM)



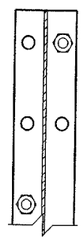
SECTION A-A
DOUBLE FACE RAIL WITH
STEEL POST (W150x13.5)
(TIMBER OFFSET BLOCK)



SECTION A-A
DOUBLE FACE RAIL WITH
ROUND TIMBER POST



SECTION A-A
DOUBLE FACE RAIL WITH
TIMBER POST



SECTION B-B

USE WITH CUR. STD. DWG. RBR-005

NOTES

THE CONTRACT UNIT PRICE BID SHALL BE:
GUARDRAIL-STEEL W BEAM-SINGLE FACE
OR
GUARDRAIL-STEEL W BEAM-DOUBLE FACE

DIMENSIONAL TOLERANCES NOT SHOWN OR IMPLIED ARE INTENDED TO BE THOSE CONSISTENT WITH THE PROPER FUNCTIONING OF THE PART, INCLUDING ITS APPEARANCE AND ACCEPTED MANUFACTURING PRACTICES.

THE RAIL ELEMENT SHALL COMPLY WITH AASHTO M-180 -CLASS A, TYPE II.

ALL LAPS SHALL BE PLACED IN THE DIRECTION OF TRAFFIC FLOW.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.

① TOLERANCE - 6, +30

② 8 - M16x35 LONG BUTTON HEAD BOLTS AND HEX HEAD RECESS NUTS REQUIRED FOR EACH RAIL SPLICE.

③ LENGTH EQUALS POST AND BLOCK WIDTH PLUS: 50 MM FOR BOLT OR 55 MM FOR THREADED ROD.

④ GALVANIZED STEEL 10d COMMON COATED NAIL (DRIVE NAIL AT THE TOP OR BOTTOM CENTER OF BLOCK AND POST AFTER BOLT IS INSTALLED).

⑤ 16x ③ STEEL THREADED ROD AND TWO (2) HEX HEAD NUTS OR M16x ③ BUTTON OR HEX HEAD BOLT AND HEX HEAD NUT.

⑥ M16x205 BUTTON HEAD BOLT, HEX HEAD RECESS NUT AND ONE 16 MM ROUND WASHER (TYP.). BOLT SHALL HAVE A MINIMUM THREAD LENGTH OF 50 MM.

▨ REQUIRED FOR DOUBLE RAIL

DATE APRIL 1994
METRIC T. GATEWOOD

		DATE
DRAWN	D. H. McALISTER	8-5-98
CHECKED	D. H. McALISTER	8-5-98
RECOMMENDED		8-98
APPROVED F.H.W.A.		

KENTUCKY
DEPARTMENT OF HIGHWAYS

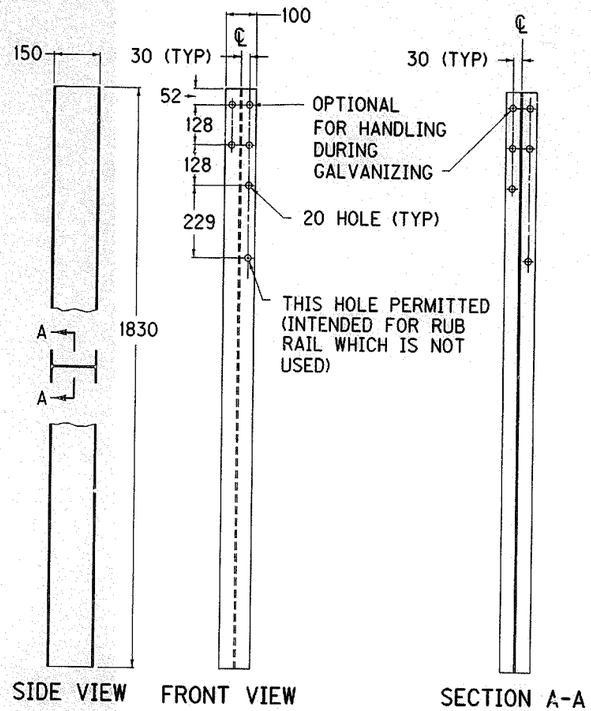
STEEL BEAM
GUARDRAIL
("W" BEAM)

SUBMITTED William S. Haskett 10-1-98
ASSIST. DIRECTOR DIVISION OF DESIGN — DATE

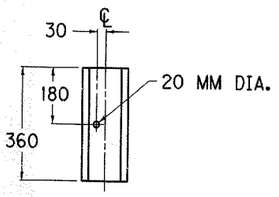
DRAWING SCALE:
POST W6X9.0 1½" = 1' ALL VIEWS
POST 6C 1½" = 1' PLAN =½" =1"
OFFSET W6X9.0 3" = 1' ALL VIEWS
ANCHOR PLATE¼" = 1" ALL VIEWS
DETAIL "A" ½" = 1"

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		21a	104

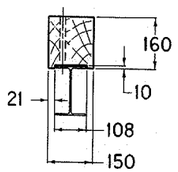
ITEM # 8-143.0



~ W150 X 13.5 STEEL POST ② ~

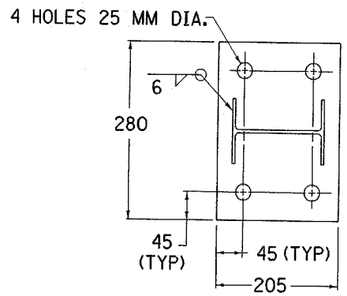


REAR ELEVATION

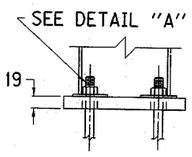


PLAN VIEW

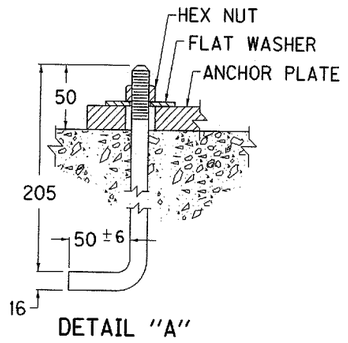
OFFSET BLOCK TYPE 4
(TIMBER)
(FOR USE WITH STEEL POST ONLY)



PLAN VIEW



SIDE VIEW
ANCHOR PLATE



DETAIL "A"

~ NOTES ~

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.

② W150 X 12.6 IS AN ACCEPTABLE ALTERNATE.

USE WITH CUR. STD. DWG. RBR-016

KENTUCKY
DEPARTMENT OF HIGHWAYS

GUARDRAIL POSTS

SUBMITTED William S. Sublett 10-1-98
ASSIST. DIRECTOR DIVISION OF DESIGN — DATE

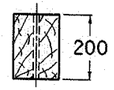
DRAWN D. H. McALISTER 8-6-98
CHECKED D. H. McALISTER 8-6-98
RECOMMENDED 8-98
APPROVED F.H.W.A.

METRIC T. GATEWOOD DATE APRIL 1994

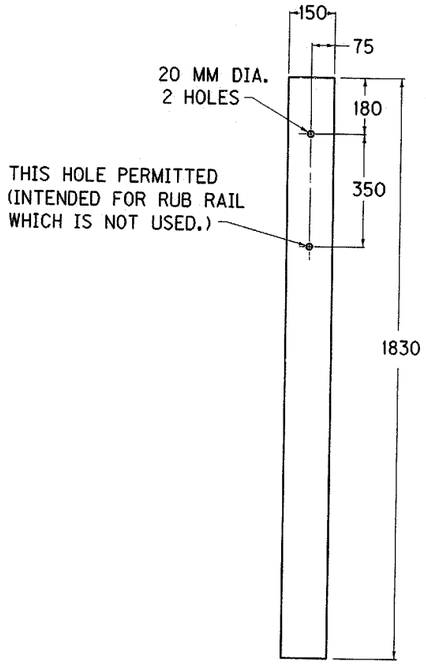
DRAWING SCALE:
ALL VIEWS 1½" =1'-0"

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		21h	104

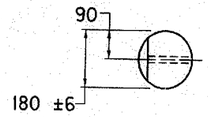
ITEM #8-143.0



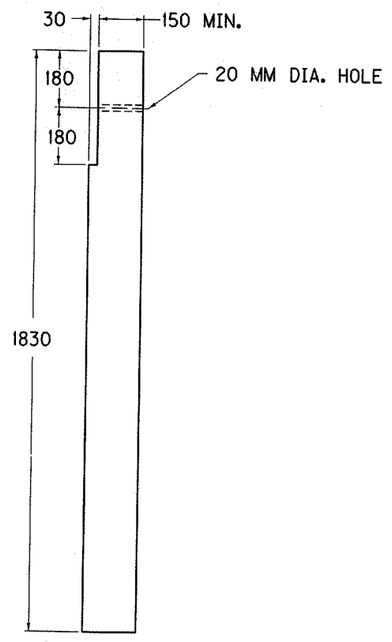
PLAN VIEW



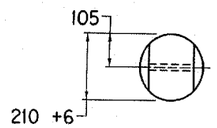
FRONT ELEVATION
150x200 TIMBER POST



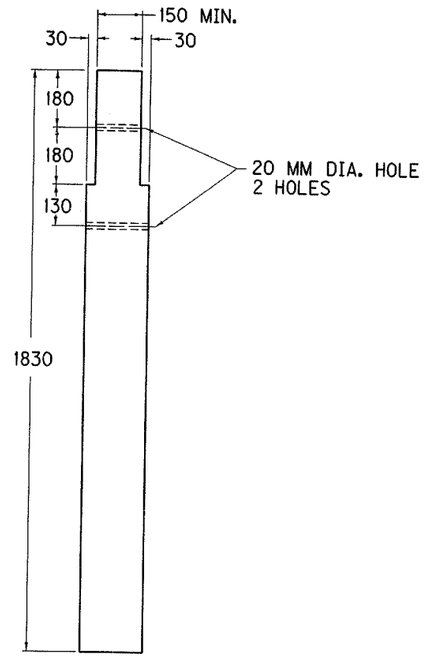
PLAN VIEW



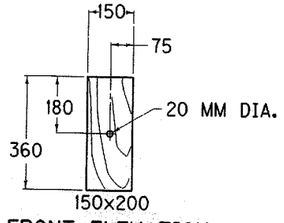
180 MM ROUND TIMBER POST
(SINGLE FACE RAIL)



PLAN VIEW



210 MM ROUND TIMBER POST
(DOUBLE FACE RAIL)



FRONT ELEVATION
OFFSET BLOCK TYPE 3
(TIMBER)
(FOR USE WITH RECTANGULAR
AND ROUND POSTS)

NOTE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.

USE WITH CUR. STD. DWG. RBR-015

KENTUCKY
DEPARTMENT OF HIGHWAYS

GUARDRAIL POSTS

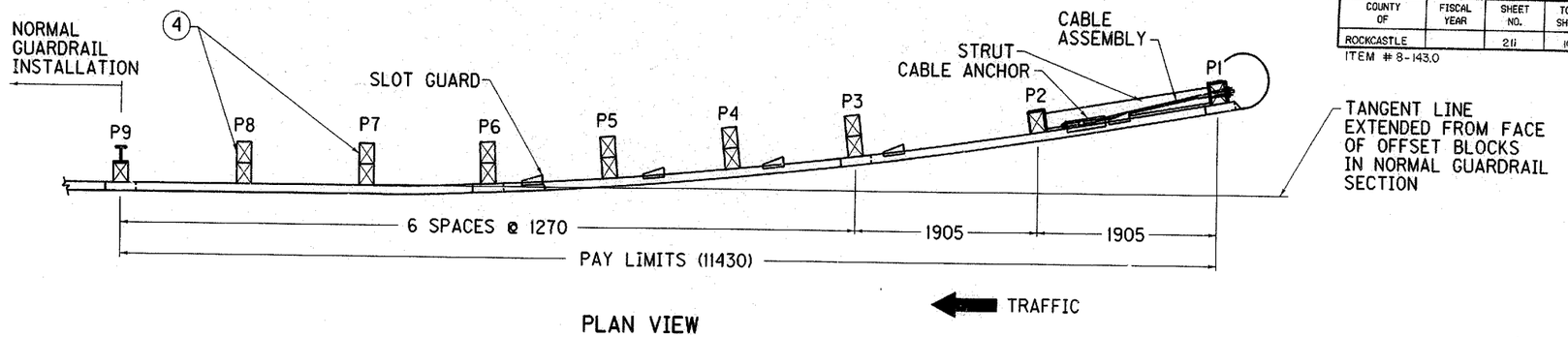
SUBMITTED William S. Gulick 10-1-98
ASSIST. DIRECTOR DIVISION OF DESIGN — DATE

		DATE
DRAWN	T. S. GATEWOOD	8-6-98
CHECKED	D.H. McALISTER	8-6-98
RECOMMENDED	William S. Gulick	8-98
APPROVED	F.H.W.A.	

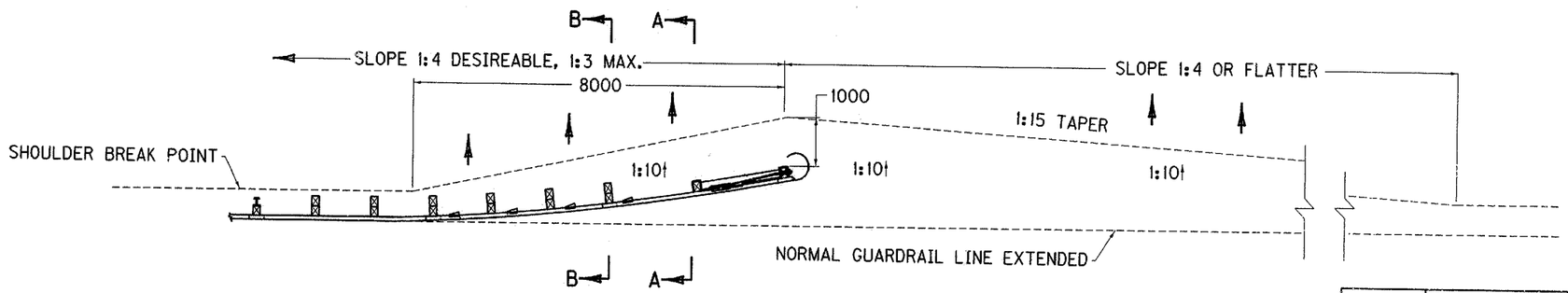
DRAWING SCALE:

COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKCASTLE		20	104

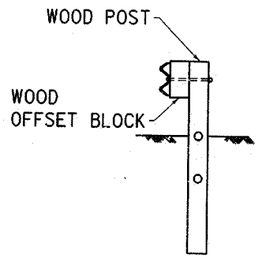
ITEM # 8-143.0



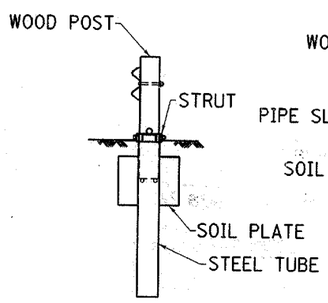
PLAN VIEW



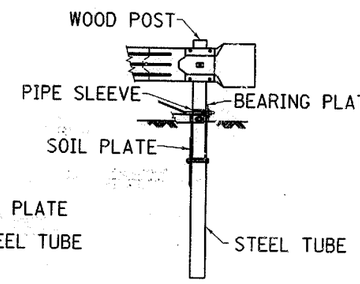
SLOPE LAYOUT AND GRADING DETAIL



SECTION B-B
(POSTS P3 THRU P8)



SECTION A-A
(POST P2)



ENLARGED VIEW P1

POSTS	OFFSETS (7)
P1	915
P2	565
P3	300
P4	170
P5	75
P6	20
P7	0
P8	0
P9	0

1. BID ITEMS AND UNIT TO BID:
   A. GUARDRAIL END TREATMENT TYP 4A - EACH
   B. MATERIAL USED TO CONSTRUCT WIDENING SHALL BE BID AS ROADWAY OR BORROW EXCAVATION OR EMBANKMENT-IN-PLACE AT THE CONTRACT UNIT PRICE PER CUBIC METER.
2. INTENDED USE: FILLS WITH ADEQUATE VEHICLE RECOVERY ZONE BEHIND GUARDRAIL.
3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.
(4) GUARDRAIL SHALL NOT BE ATTACHED TO OFFSET BLOCK AND POST AT THIS LOCATION.
5. GUARDRAIL END TREATMENT TYPE 4A IS A PATENTED (ONE SOURCE) PRODUCT MANUFACTURED BY SYRO STEEL OF GIRARD, OHIO.
6. THE MANUFACTURER SHALL FURNISH TWO (2) SETS OF SHOP PLANS TO THE CONTRACTOR WITH EACH INSTALLATION.
(7) PARABOLIC OFFSET SHALL BE MEASURED FROM FACE OF OFFSET BLOCK AT NORMAL GUARDRAIL SECTION TO FACE OF OFFSET BLOCK (FACE OF POST AT P1 AND P2) IN PARABOLIC SECTION.

		DATE
DRAWN	T. S. GATEWOOD	8-98
CHECKED	D. H. McALISTER	8-98
RECOMMENDED		
APPROVED	F.H.W.A.	

KENTUCKY DEPARTMENT OF HIGHWAYS

GUARDRAIL END TREATMENT TYPE 4A

SUBMITTED William S. Gulick ASSIST. DIRECTOR DIVISION OF DESIGN 10-1-98 DATE