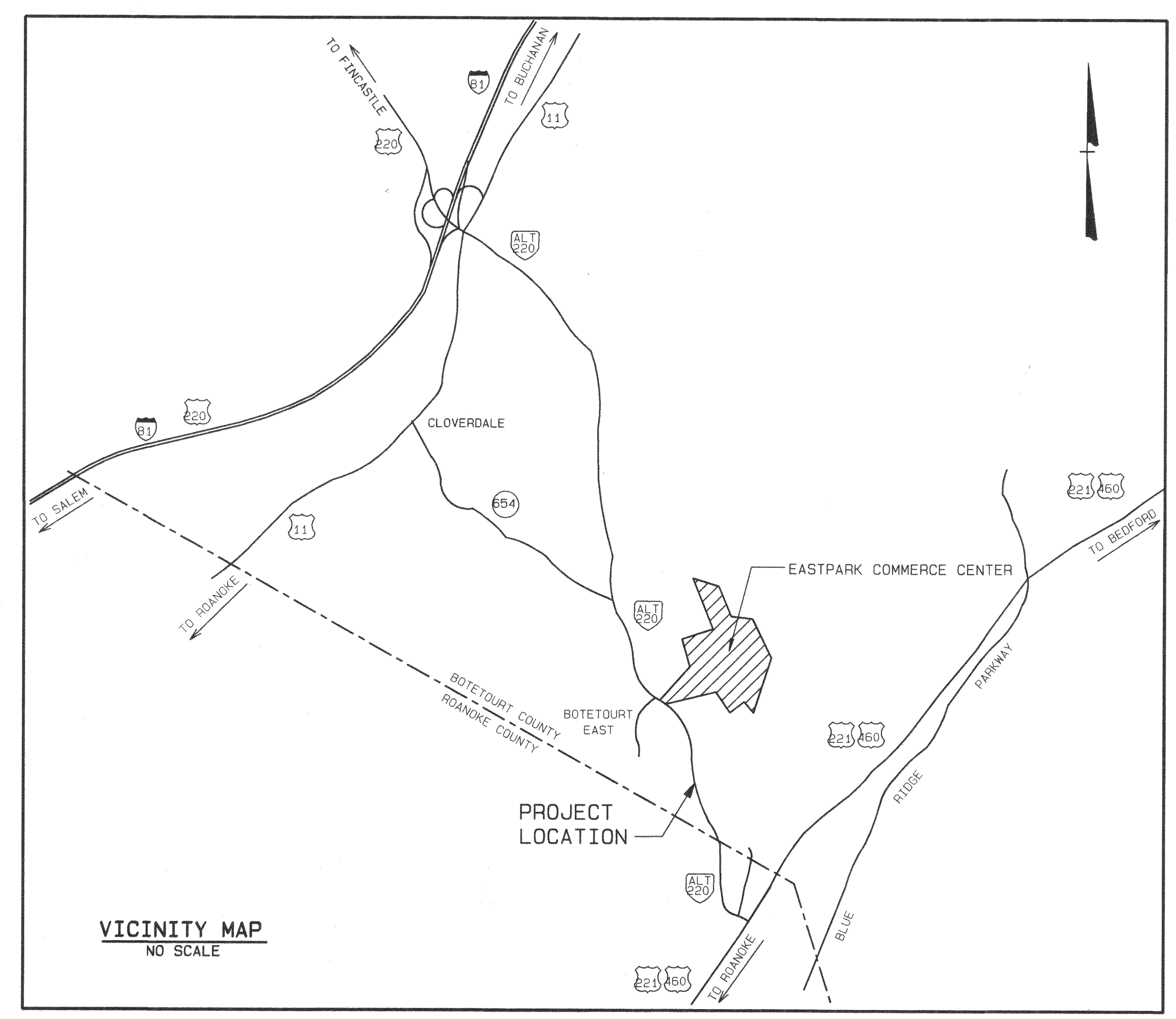


EASTPARK COMMERCE CENTER PHASE II

BOTETOURT COUNTY, VIRGINIA



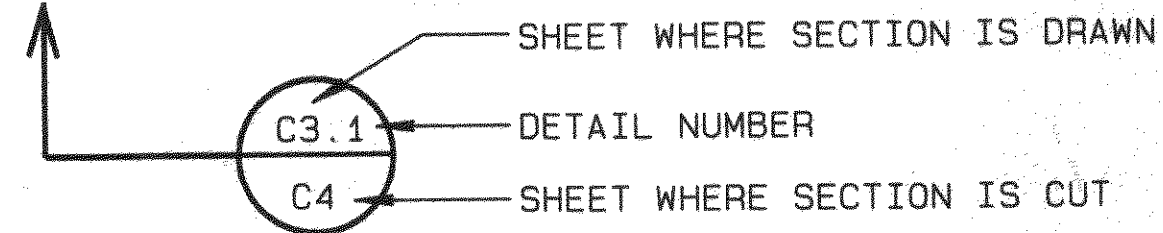
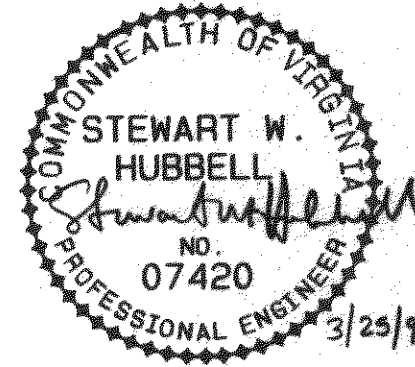
AB	ANCHOR BOLT	FFE	FINISHED FLOOR ELEVATION	RECPT	RECEPTACLE	EXISTING	NEW	DESCRIPTION
ABAN	ABANDON OR ABANDONED	FIG	FIGURE	RECT	RECTANGULAR			BUILDING WITH PORCH OR STOOP
ABUT	ABUTEMENT	FIN	FINISH	REINF	REINFORCE, REINFORCEMENT			FOUNDATION ONLY
ABV	ABOVE	FIXT	FIXTURE	REF	REFERENCE			CONTOUR, CONTOUR WITH ELEVATION
ACT	ACOUSTICAL	FL	FLOOR	REL	RELOCATED			SPOT ELEVATION
ADD	ADDITIONAL	FLEX	FLEXIBLE	REQD	REQUIRED			CONCRETE CURB
ADJ	ADJACENT	FLG	FLANGE	REV	REVISION			CONCRETE CURB & GUTTER
AFF	ABOVE FINISH FLOOR	FT	FOOT	RTE	ROUTE			CONCRETE WALK OR SLAB
AGGR	AGGREGATE	FTG	FOOTING	RT	RIGHT			PAVEMENT
ALUM	ALUMINUM	FUT	FUTURE	R/W	RIGHT OF WAY			UNPAVED OR GRAVEL ROAD
ALT	ALTERNATE	GAL	GALLON	S	SANITARY SEWER, SOUTH, SWITCH			TREE LINE
ANC	ANCHOR	GALV	GALVANIZED	SAN	SANITARY			TREE OR SHRUB
APPROX	APPROXIMATE	GAR	GARAGE	SCH	SCHEDULE			FENCE
ARCH	ARCHITECTURAL	GND	GROUND	SD	STORM DRAIN			CENTERLINE CREEK, SWALE OR DITCH
AWWA	AMERICAN WATER WORKS ASSOCIATION	GR	GRAVEL	SECT	SECTION			PROPERTY LINE
AVG	AVERAGE	GOVT	GOVERNMENT	SER	SERVICE			BASELINE
BIT	BITUMINOUS	GPM	GALLONS PER MINUTE	SH	SHEET			LIMIT OF WORK LINE
BJ	BELL JOINT	GRATG	GRATING	SHTG	SHEETING			FIELD SURVEY TRAVERSE POINT
BL	BASE LINE	GV	GAS VALVE	SIM	SIMILAR			P.C. OR P.T.
BEG	BEGIN OR BEGINNING	GW	GRAY WATER	SPEC	SPECIFICATION			GEOLOGIC BORE HOLE
BLDG	BUILDING	H	HOT	SQ	SQUARE			STORM DRAIN AND ENDWALL
BLKG	BLOCKING	HB	HOSE BIBB	SS	STAINLESS STEEL			SANITARY SEWER
BM	BENCH MARK, BEAM	HK	HOOK	ST	STREET			FORCE MAIN
BOTT	BOTTOM	HM	HOLLOW METAL	STA	STATION			GAS MAIN OR SERVICE LINE
BP	BYPASS	HOR, HORIZ	HORIZONTAL	STD	STANDARD			WATER MAIN OR SERVICE LINE
BRG	BEARING	HP	HORSE POWER	STL	STEEL			ELECTRICAL LINE
BSMT	BASEMENT	HPT	HIGH POINT	STRUCT	STRUCTURAL			UNDERGROUND ELECTRICAL LINE
BV	BUTTERFLY VALVE	HYD	HYDRANT	STY	STORY			PIPE FITTINGS
C	CHANNEL, COLD	ID	INSIDE DIAMETER	SUR	SURVEY			FIRE HYDRANT
C/C, C TO C	CENTER TO CENTER	IN	INCH	SURF	SURFACE			GATE VALVE
CAB	CABINET	INSUL	INSULATION	S/W	SIDEWALK			CLEANOUT
CAP	CAPACITY	INV	INVERT	SYMM	SYMMETRICAL			MANHOLE
CF	CUBIC FEET	IP	IRON PIN	T	TREAD, TOP			DROP INLET (CURB AND GRATING TYPES)
CG	CHANGE OF GRADE	JT	JOINT	T & B	TOP AND BOTTOM			G.M. - GAS METER, W.M. - WATER METER
C & G	CURB AND GUTTER	JB	JUNCTION BOX	TDC	TURNED DOWN CURB			TELEPHONE LINE
CI	CAST IRON	L	LENGTH, LONG	TELE	TELEPHONE			UNDERGROUND TELEPHONE LINE
CIRC	CIRCULAR	LF	LINEAL FOOT	TEMP	TEMPORARY			TELEPHONE POLE, GUY AND ANCHOR
CKT	CIRCUIT	LG	LONG	THK	THICK			LIGHT POLE
CL	CENTER LINE	LP	LIGHT POLE	TP	TELEPHONE POLE			TELEPHONE PEDESTAL
CLR	CLEAR	LR	LONG RADIUS	TRTD	TREATED			BURIED TELEPHONE VAULT
CONST	CONSTRUCTION	LT	LEFT	TS	TOP OF SLAB			ABANDON OR REMOVE
COR	CORNER	LTG	LIGHTING	TV	TELEVISION			PAVED DITCH
CMP	CORRUGATED METAL PIPE	MACH	MACHINERY	TW	TOP OF WALL			DRIVEWAY CULVERT
CMU	CONCRETE MASONRY UNITS	MAS	MASONRY	TYP	TYPICAL			CULVERT WITH FLARED END SECTION
CND	CONDUIT	MATL	MATERIAL	UG	UNDERGROUND			
CO	CLEAN OUT	MAX	MAXIMUM	UON	UNLESS OTHERWISE NOTED			
COMB	COMBINATION	MB	MAILBOX	U.S.C. & G.S.	UNITED STATES COAST AND GEODETIC SURVEY			
CONC	CONCRETE	MECH	MECHANICAL	USGS	UNITED STATES GEOLOGICAL SURVEY			
CONN	CONNECT, CONNECTION	MFR	MANUFACTURER	V, VAL	VALVE			
CONT	CONTINUOUS, CONTROL	MH	MANHOLE, MOUNTING HEIGHT	VAP BAR	VAPOR BARRIER			
CONTR	CONTRACTOR	MIN	MINIMUM	VC	VERTICAL CURVE			
CONV	CONVEYOR	MISC	MISCELLANEOUS	VERT	VERTICAL			
CP	COORDINATE POINT	MJ	MECHANICAL JOINT	VOL	VOLUME			
CR STONE	CRUSHED STONE	MO	MASONRY OPENING	VDOT	VIRGINIA DEPARTMENT OF TRANSPORTATION			
CTR	CENTER	MON	MONUMENT	V.S.D.	VERTICAL SIGHT DISTANCE			
CULV	CULVERT	MTD	MOUNTED	W.B.L.	WEST BOUND LANE			
CY	CUBIC YARD	MTG	MOUNTING	W	WIDE FLANGE, WIDE			
D	DEPTH OR DEGREE OF CURVE	MTL	METAL	W/	WITH			
DEPT	DEPARTMENT	MV	MUD VALVE	WD	WOOD			
DF	DRINKING FOUNTAIN	N & C	NAIL AND CAP	WL	WATER LINE			
DI	DROP INLET, DUCTILE IRON	NIC	NOT IN CONTRACT	W/O	WITHOUT			
DIA	DIAMETER	NO	NUMBER	WS	WATER SURFACE			
DIM	DIMENSION	NTS	NOT TO SCALE	WT	WATERTIGHT, WEIGHT			
DISC	DISCONNECT	OC	ON CENTERS	WVDH	WEST VIRGINIA DEPARTMENT OF HIGHWAYS			
DMH	DROP MANHOLE	OD	OUTSIDE DIAMETER	WWF	WELDED WIRE FABRIC			
DN	DOWN	OPER	OPERATOR					
DR	DRIVE	OPNG	OPENING					
DS	DOWN SPOUT	OPP	OPPOSITE					
DTL	DETAIL	PB	PAPER BOX					
DW, D/W	DRIVEWAY	PC	POINT OF CURVE					
DWL	DWELLING	PCC	POINT OF COMPOUND					
DWG	DRAWING	PER	PERIMETER					
E	EAST	PERF	PERFORATED					
EA	EACH	PERP	PERPENDICULAR					
E.B.L.	EASTBOUND LANE	PI	POINT OF INTERSECTION					
EF	EACH FACE	PIV	POST INDICATOR VALVE					
EJ	EXPANSION JOINT	PL	PLATE, PROPERTY LINE					
EL, ELEV	ELEVATION	PLYWD	PLYWOOD					
ELEC	ELECTRICAL	POL	POINT ON LINE					
ENGR	ENGINEER	PP	POWER POLE					
ENTR	ENTRANCE	POT	POINT ON TANGENT					
EOL	END OF LINE	PRC	POINT OF REVERSE CURVE					
EP	EDGE OF PAVEMENT	PSI	POUNDS PER SQUARE INCH					
EQ	EQUAL	PT	POINT OF TANGENT					
EQPT	EQUIPMENT	PVC	POLYVINYL CHLORIDE					
EW	EACH WAY, ENDWALL	PVI	POINT OF VERTICAL INTERSECTION					
EXIST	EXISTING	PVMT	PAVEMENT					
EXT	EXPANSION	PVT	PRIVATE					
FR	FRAME	R	RADIUS, RISER					
FD	FLOOR DRAIN	RAS	RETURN ACTIVATED SLUDGE					
FDN	FOUNDATION	RR	RAIL ROAD					
FES	FLARED END SECTION	RCP	REINFORCED CONCRETE PIPE					
FF	FINISH FLOOR	RD	ROOF DRAIN, ROAD					
		RDCR	REDUCER					

EROSION AND SEDIMENT CONTROL SYMBOLS

	EROSION CONTROL STONE
	STRAW BALE BARRIER
	STORM DRAIN INLET PROTECTION
	DIVERSION
	TEMPORARY SEDIMENT TRAP
	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
	RIPRAP
	SILT FENCE

MATERIALS SYMBOLS

	METAL
	BRICK
	CONCRETE MASONRY
	CONCRETE
	GROUT OR FINISHED CONCRETE
	INSULATION (RIGID)
	WOOD BLOCKING
	FINISHED WOOD OR PLYWOOD
	GRAVEL OR STONE
	EARTH

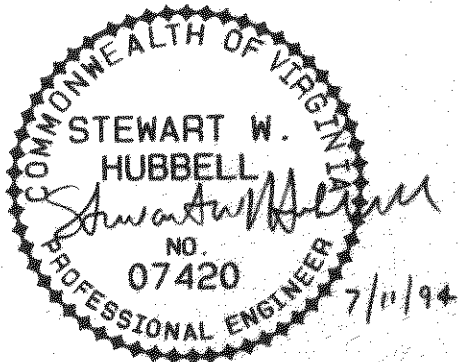
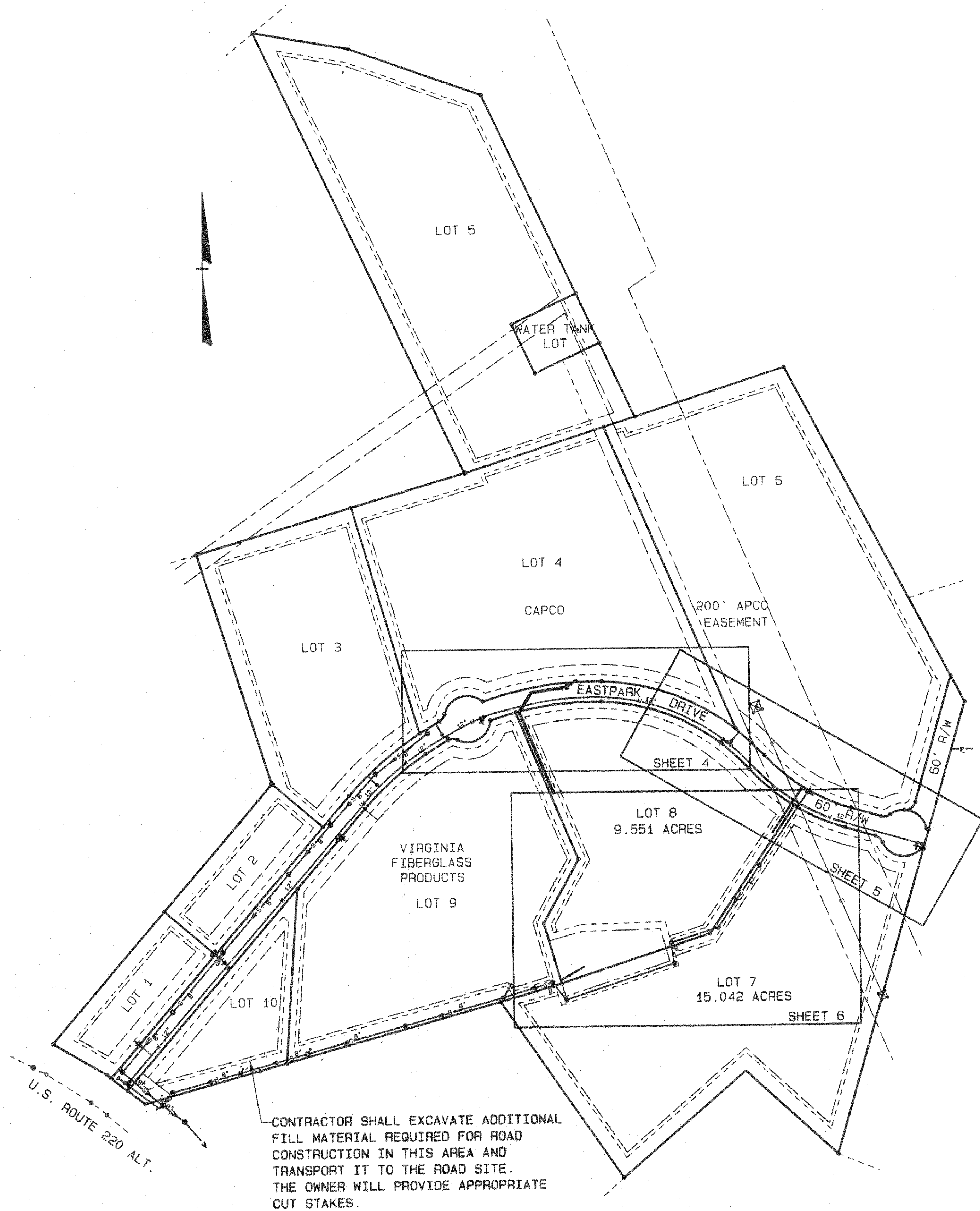


REV	DATE	DESCRIPTION	BY	APP
DSGN	DSG	EASTPARK COMMERCE CENTER - PHASE II		
DRAWN	DSG	ABBREVIATIONS AND LEGEND		
CHKD	SWH	BOTETOURT COUNTY, VIRGINIA		
		SCALE: NONE	COMM. NO. 1034D	
		DATE: MARCH, 1994	SHEET 2	

Mattern & Craig
CONSULTING ENGINEERS
SURVEYORS

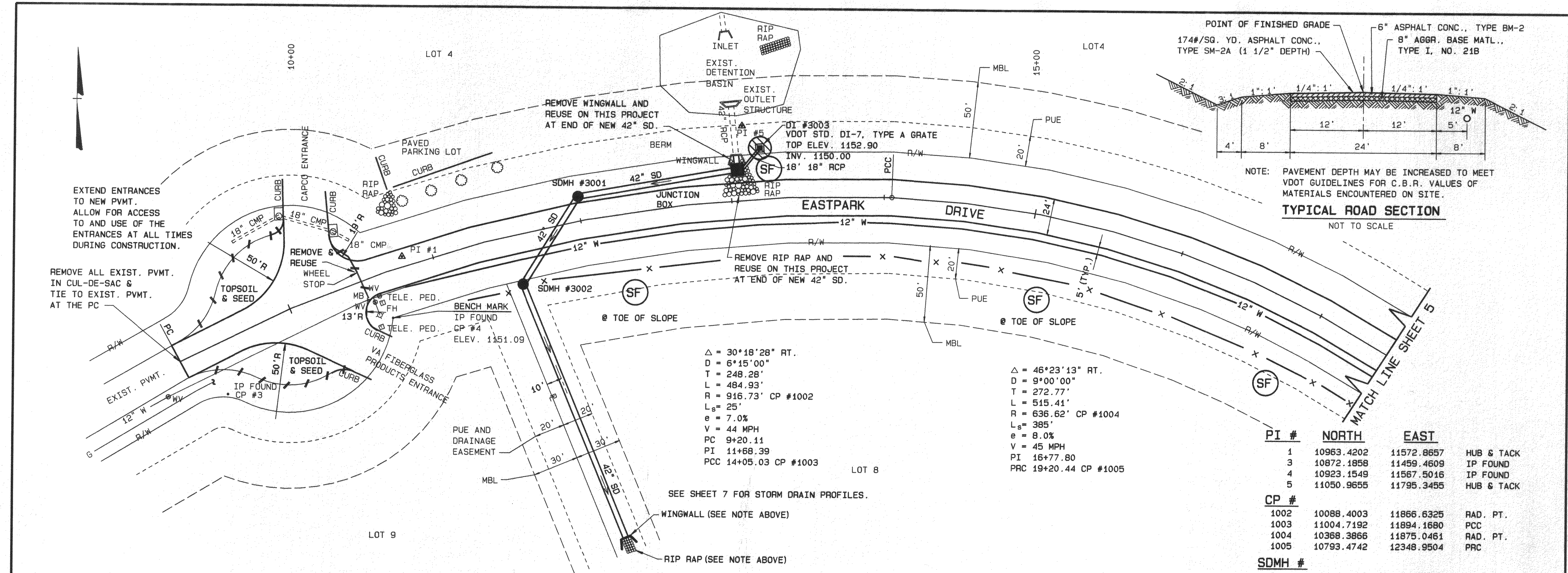
GENERAL NOTES:

1. THE LOCATION OF EXISTING UTILITIES, INCLUDING UNDERGROUND UTILITIES, IS INDICATED ON THE DRAWINGS INsofar AS THEIR EXISTENCE AND LOCATION WERE KNOWN AT THE TIME OF PREPARATION OF THE DRAWINGS. HOWEVER, NOTHING IN THESE CONTRACT DOCUMENTS SHALL BE CONSTRUED AS A GUARANTEE THAT SUCH UTILITIES ARE IN THE LOCATION INDICATED OR THAT THEY ACTUALLY EXIST, OR THAT OTHER UTILITIES ARE NOT WITHIN THE AREA OF OPERATIONS. THE CONTRACTOR SHALL MAKE ALL NECESSARY INVESTIGATIONS TO DETERMINE THE EXISTENCE AND LOCATIONS OF SUCH UTILITIES. THE CONTRACTOR SHALL PAY FOR ANY DAMAGE TO AND FOR MAINTENANCE AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES.
2. THE CONTRACTOR IS DIRECTED TO DIG AND LOCATE ALL UTILITIES, IN ADVANCE OF THE PIPELAYING, TO ALLOW FOR ADJUSTMENTS, DUE TO CONFLICTS WITH THE UTILITIES, IN THE HORIZONTAL AND VERTICAL LOCATION OF THE PIPE LINE.
3. SURVEY INFORMATION OBTAINED FROM TOPOGRAPHIC SURVEY COMPLETED IN THE WINTER OF 1994 BY MATTERN AND CRAIG INC., ROANOKE, VA. INFORMATION ALSO OBTAINED FROM AERIAL TOPOGRAPHIC SURVEY, 1991.
4. BENCHMARKS ARE AS NOTED ON DRAWINGS AND ARE USGS DATUM.



REV	DATE	DESCRIPTION	BY	APP
DSGN	DSG	EASTPARK COMMERCE CENTER PHASE II		
DRAWN	HML	SHEET INDEX AND GENERAL NOTES		
CHKD	SWH	BOTETOURT COUNTY, VIRGINIA		
		SCALE: 1"=200'	COMM. NO. 1034D	
		DATE: MARCH, 1994	SHEET 3	
		DRAWING # 3		

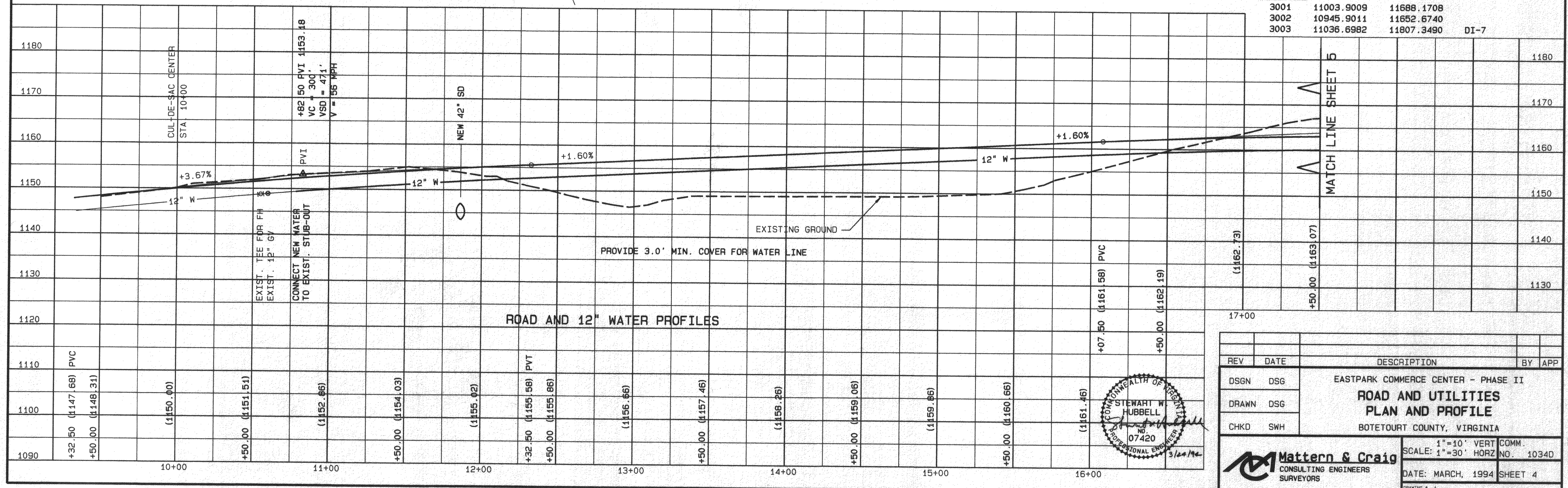
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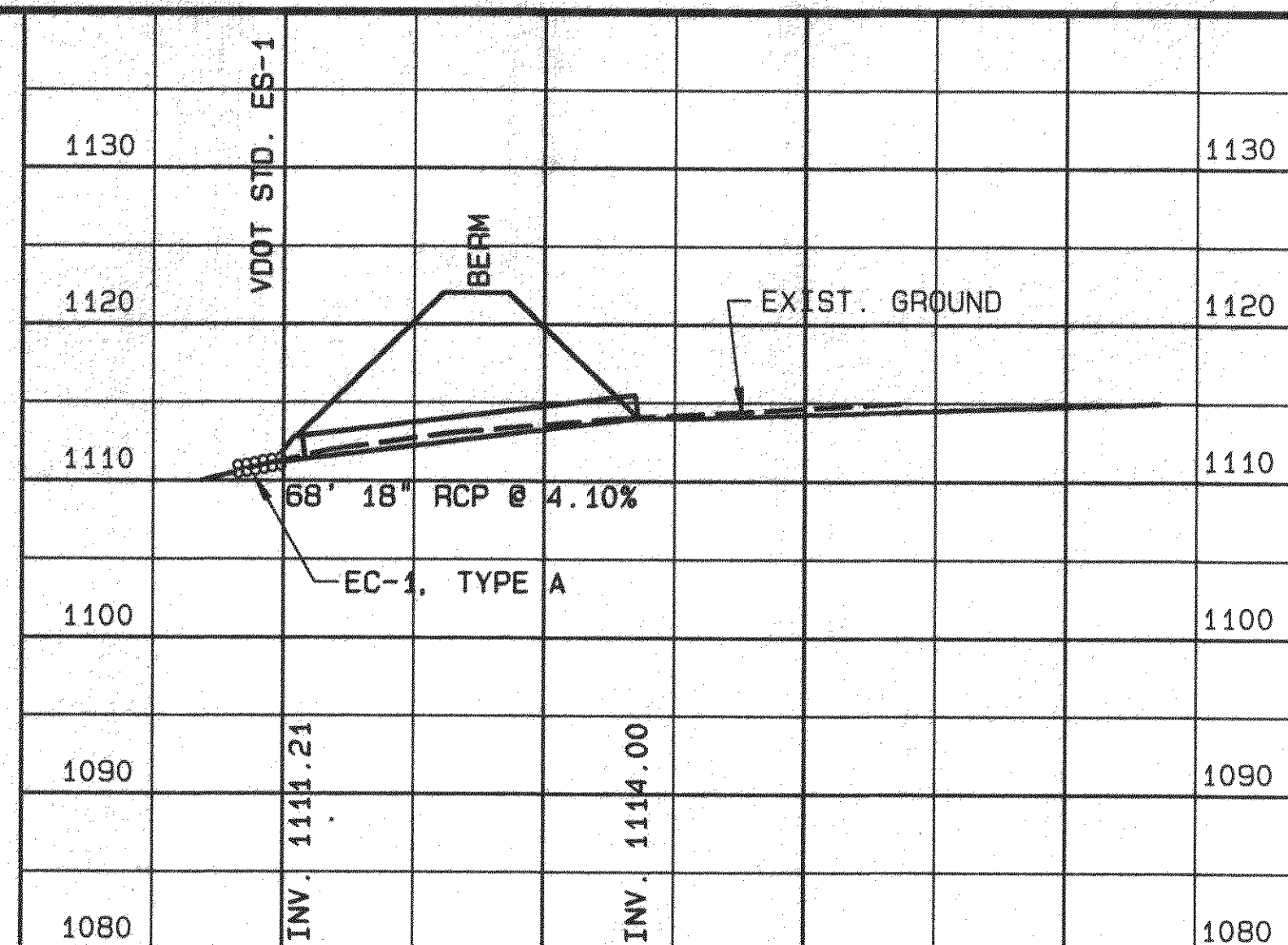
NOTE: PAVEMENT DEPTH MAY BE INCREASED TO MEET VDOT GUIDELINES FOR C.B.R. VALUES OF MATERIALS ENCOUNTERED ON SITE.

TYPICAL ROAD SECTION
NOT TO SCALE

PI #	NORTH	EAST	
1	10963.4202	11572.8657	HUB & TACK
3	10872.1858	11459.4609	IP FOUND
4	10923.1549	11567.5016	IP FOUND
5	11050.9655	11795.3455	HUB & TACK
CP #			
1002	10088.4003	11866.6325	RAD. PT.
1003	11004.7192	11894.1680	PCC
1004	10368.3866	11875.0461	RAD. PT.
1005	10793.4742	12348.9504	PRC
SDMH #			
3001	11003.9009	11688.1708	
3002	10945.9011	11652.6740	
3003	11036.6982	11807.3490	DI-7



REV	DATE	DESCRIPTION	BY	APP
DSGN	DSG	EASTPARK COMMERCE CENTER - PHASE II ROAD AND UTILITIES PLAN AND PROFILE BOTETOURT COUNTY, VIRGINIA		
DRAWN	DSG			
CHKD	SWH			
		1"=10' VERT SCALE: 1"=30' HORZ	COMM. NO. 1034D	
		DATE: MARCH, 1994	SHEET 4	



BASIN OUTLET PIPE PROFILE

LOT 8

PI #	NORTH	EAST	
6	10146.2691	11769.1019	IP FOUND
7	10512.0049	11821.8683	IP FOUND

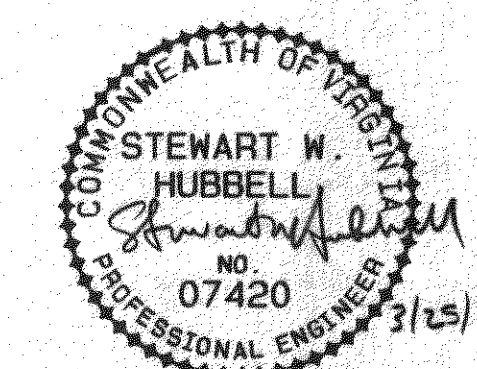
SMH #	NORTH	EAST
2001	10146.7272	11743.3859
2002	10098.0214	11781.7492
2003	10201.8149	12099.2125
2004	10262.2571	12091.0055
2005	10307.6279	12229.7769
2006	10486.0269	12349.7719

- NOTES:
- SUITABLE MATERIAL (PER SPECS) FOR EMBANKMENT CONSTRUCTION OF DETENTION BASIN SHALL BE OBTAINED FROM THE BASIN ITSELF OR FROM BORROW AREAS ON LOT 7 SOUTH AND WEST OF THE EMBANKMENT.
 - SEE SHEET 7 FOR SEWER PROFILE.

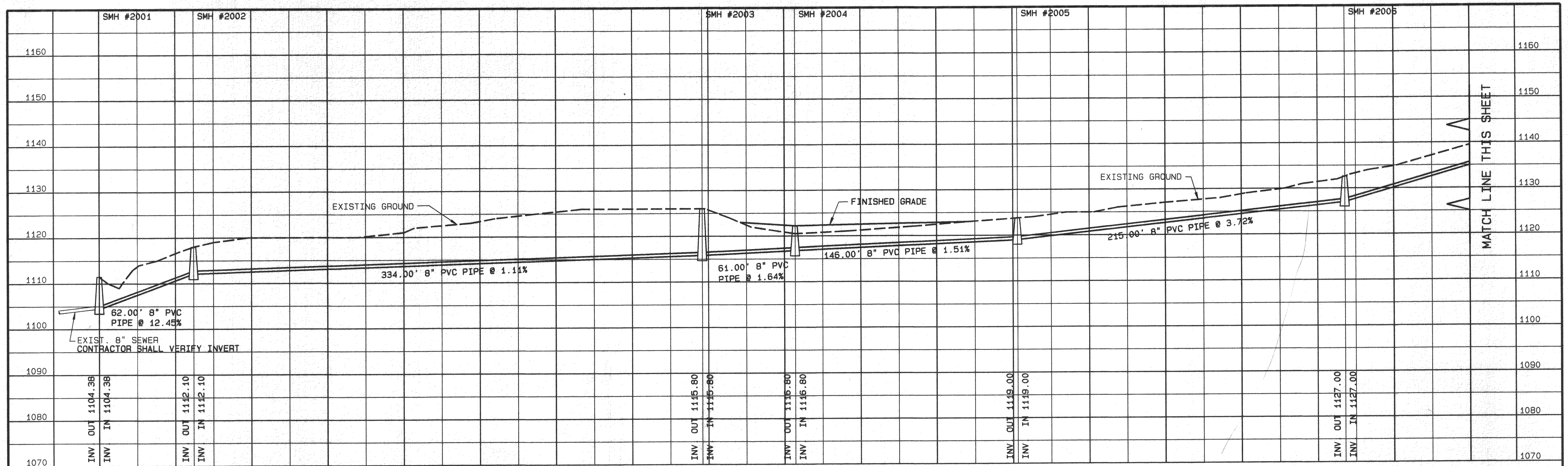
EMERGENCY SPILLWAY DETAIL
NOT TO SCALE

REV	DATE	DESCRIPTION	BY	APP
DSGN	DSG	EASTPARK COMMERCE CENTER - PHASE II		
DRAWN	DSG	DETENTION BASIN AND		
CHKD	SWH	SANITARY SEWER		
		BOTETOURT COUNTY, VIRGINIA		

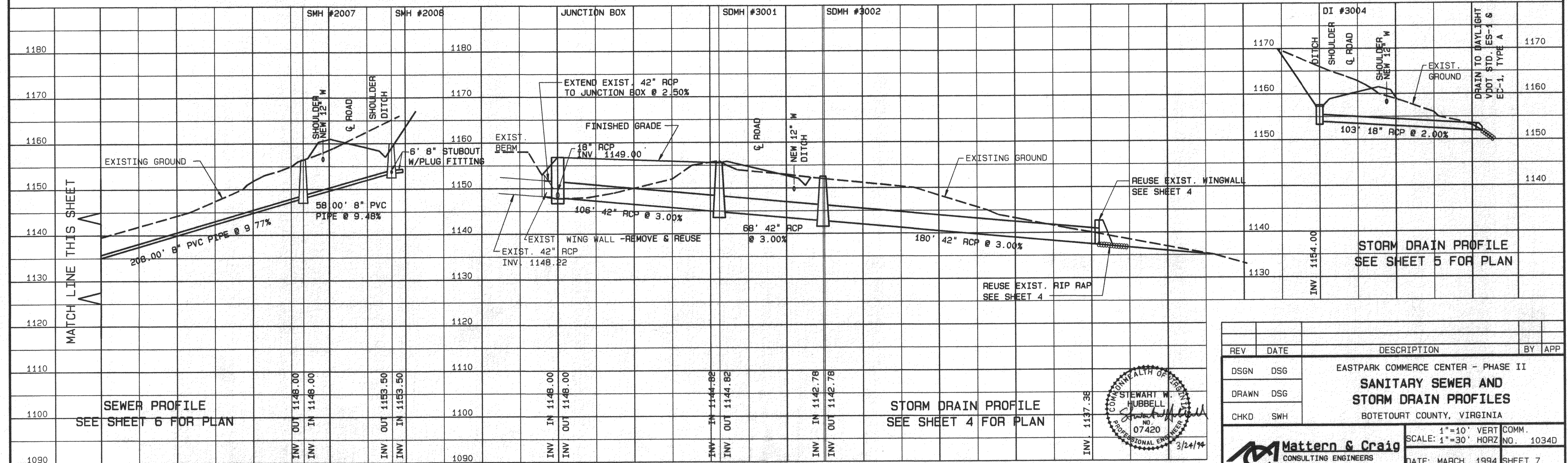
SCALE: 1"=30'	COMM. NO. 1034D
DATE: MARCH, 1994	SHEET 6



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SURVEYORS



SEWER PROFILE
SEE SHEET 6 FOR PLAN



REV	DATE	DESCRIPTION	BY	APP
DSGN	DSG	EASTPARK COMMERCE CENTER - PHASE II		
DRAWN	DSG	SANITARY SEWER AND STORM DRAIN PROFILES		
CHKD	SWH	BOTETOURT COUNTY, VIRGINIA		

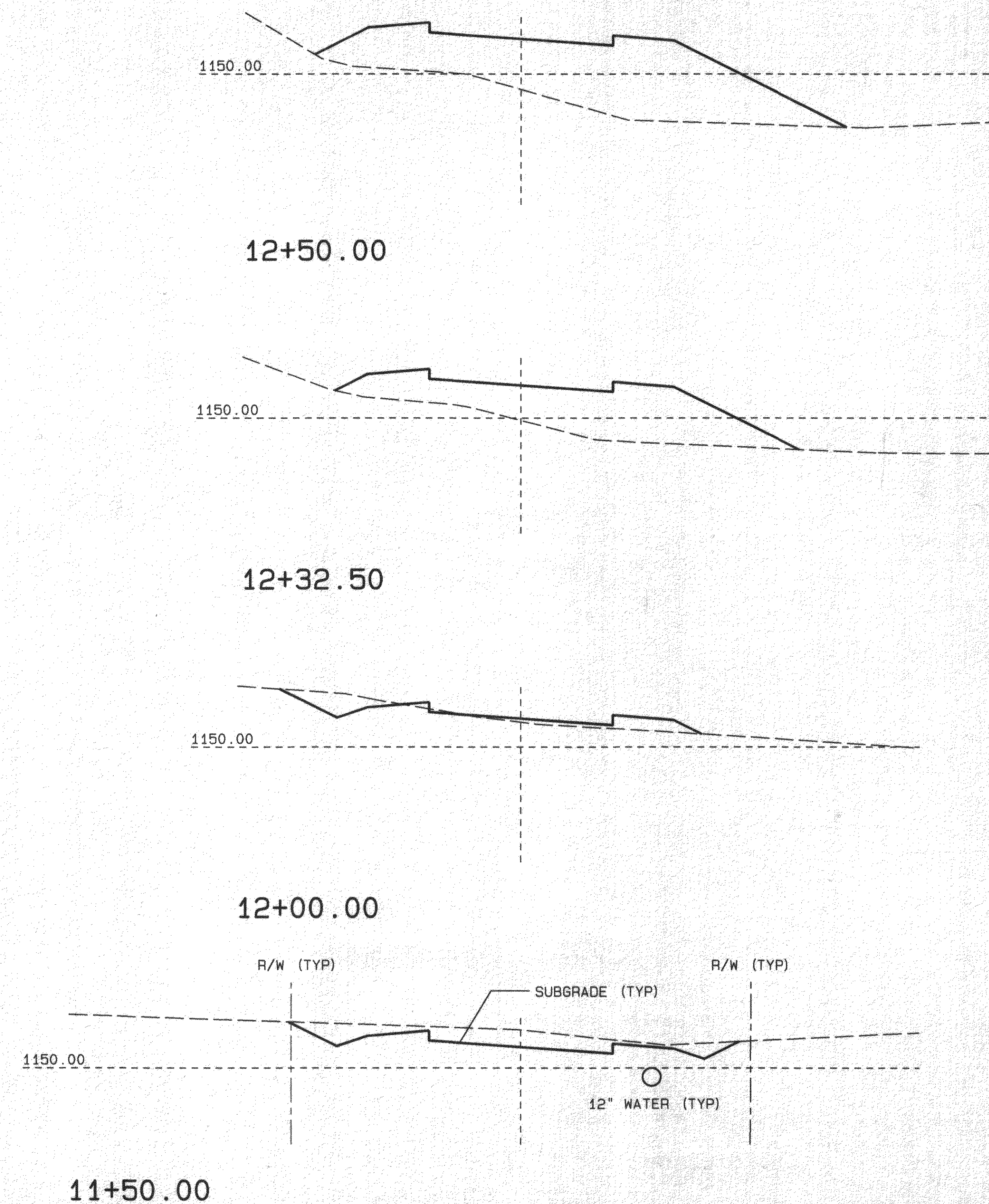
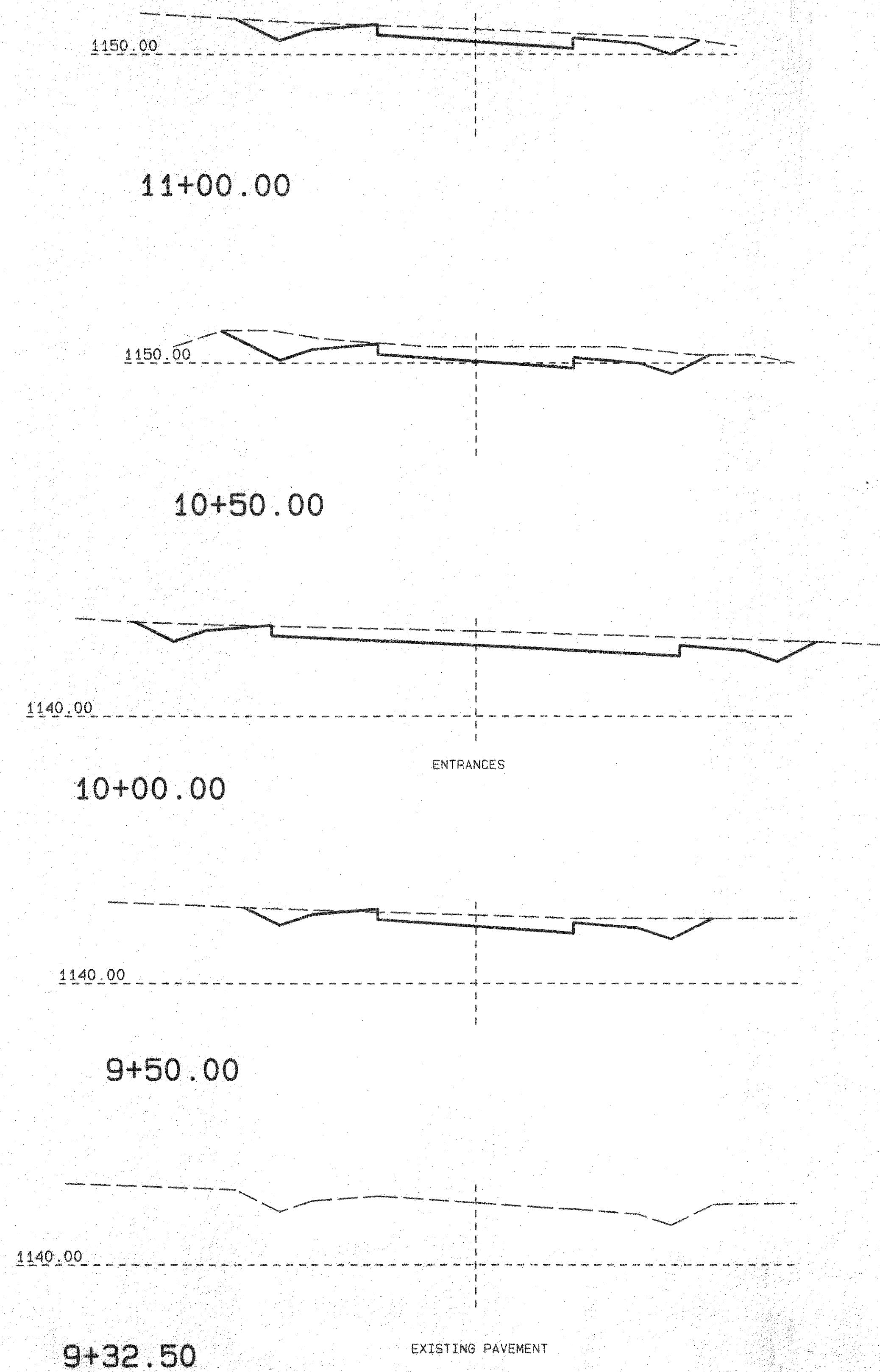
3/24/94

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SURVEYORS

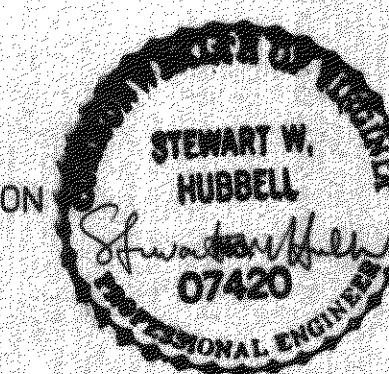
1"=10' VERT
SCALE: 1"=30' HORZ

COMM. NO. 10340

DATE: MARCH, 1994 SHEET 7

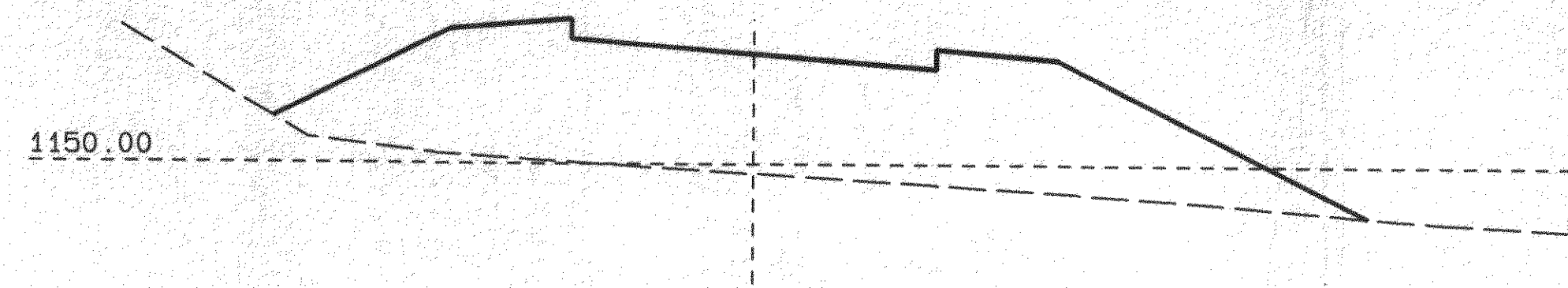


SEE SHEET 4 FOR TYPICAL ROAD SECTION

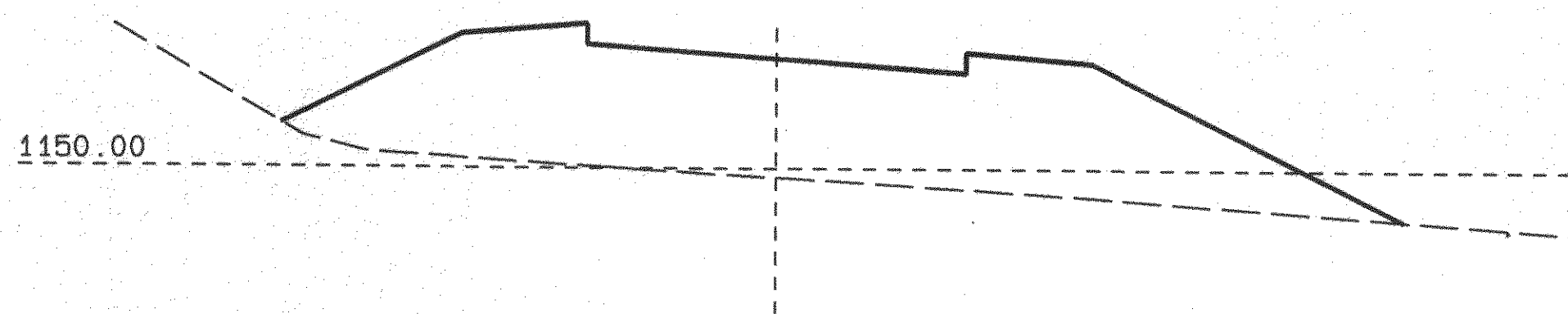


REV	DATE	DESCRIPTION	BY	APP
DSGN	DSG	EASTPARK COMMERCE CENTER - PHASE II		
DRAWN	HML	ACCESS ROAD CROSS SECTIONS		
CHKD		BOTETOURT COUNTY, VIRGINIA		
		SCALE: 1"=10' VERT 1"=10' HORIZ	COMM. NO. 1034D	
		DATE: MARCH 1994	SHEET 8	
DRAWING # TEMP V 1.0				

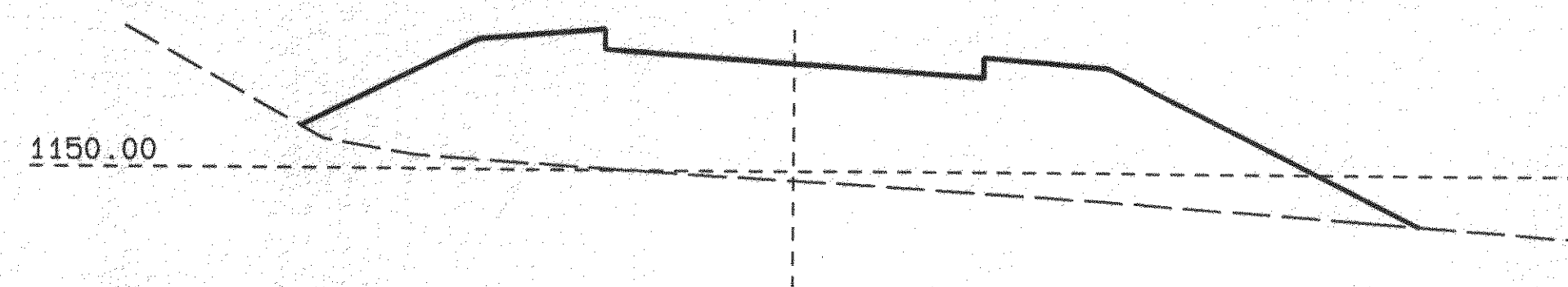
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SURVEYORS



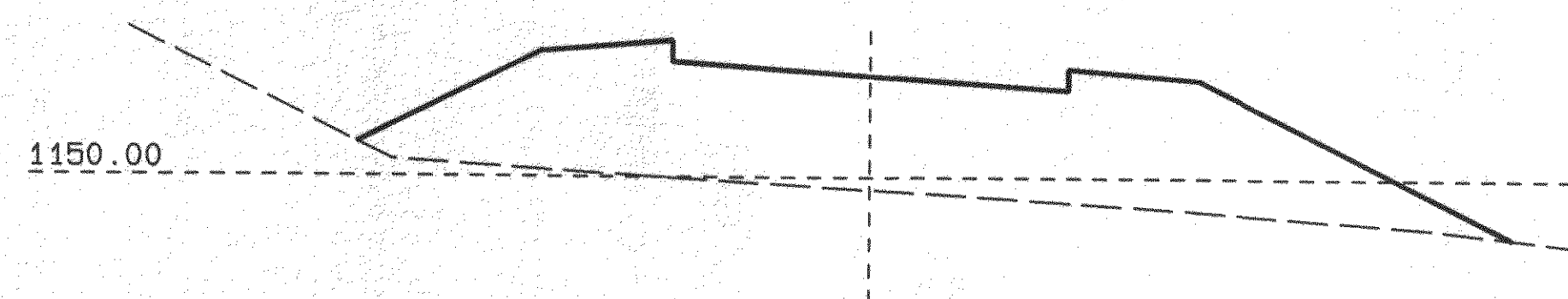
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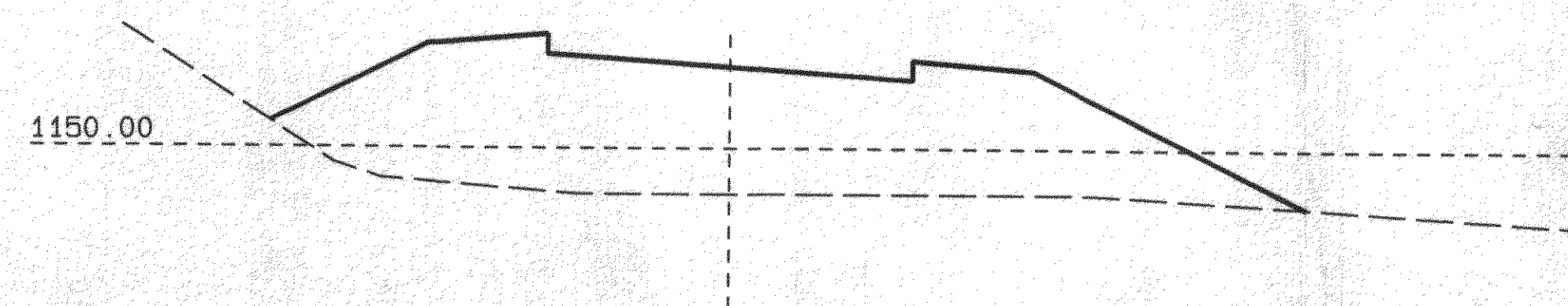
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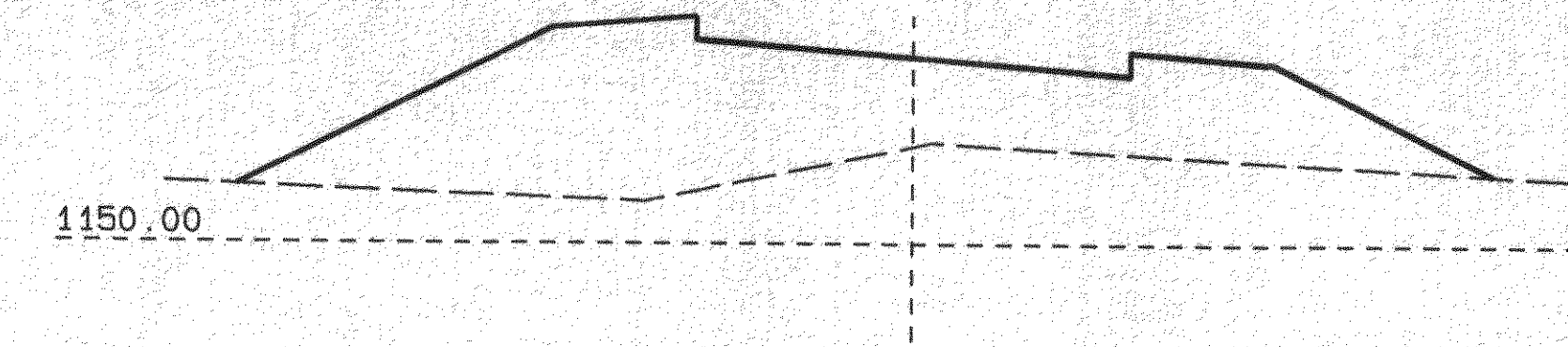
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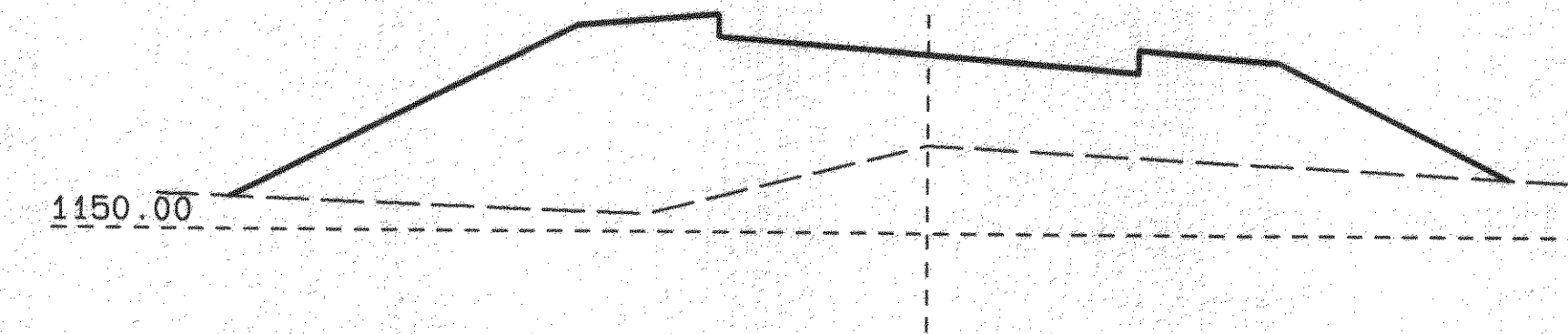
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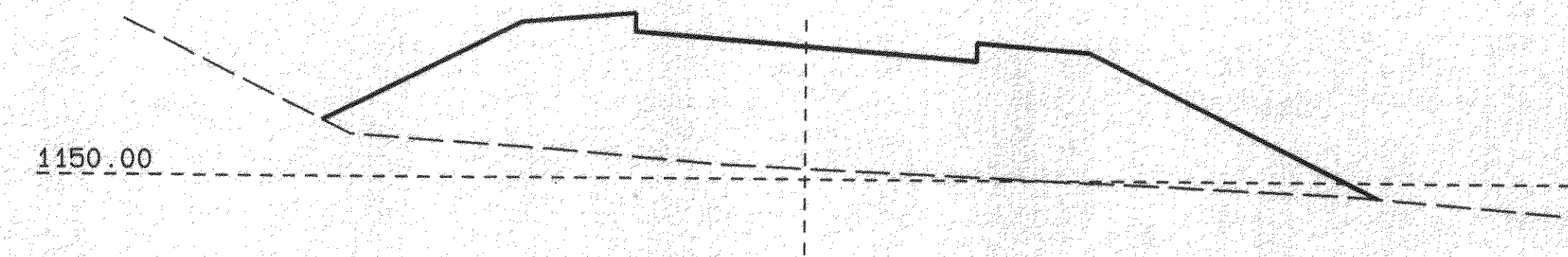
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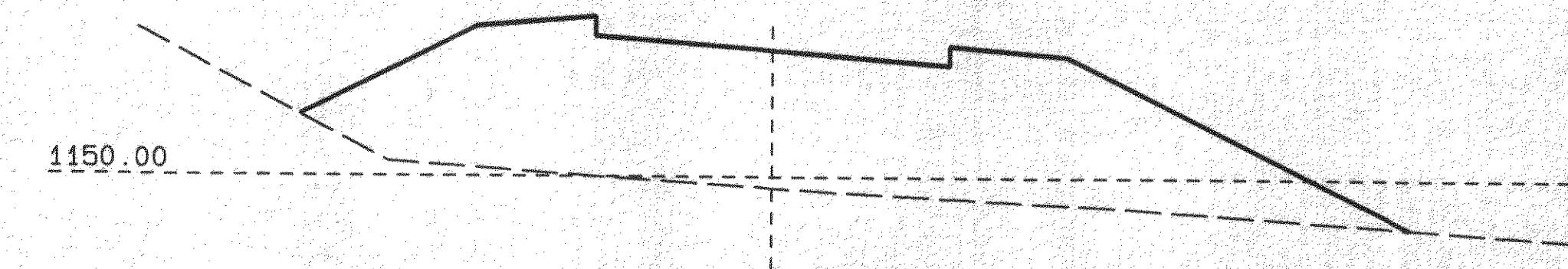
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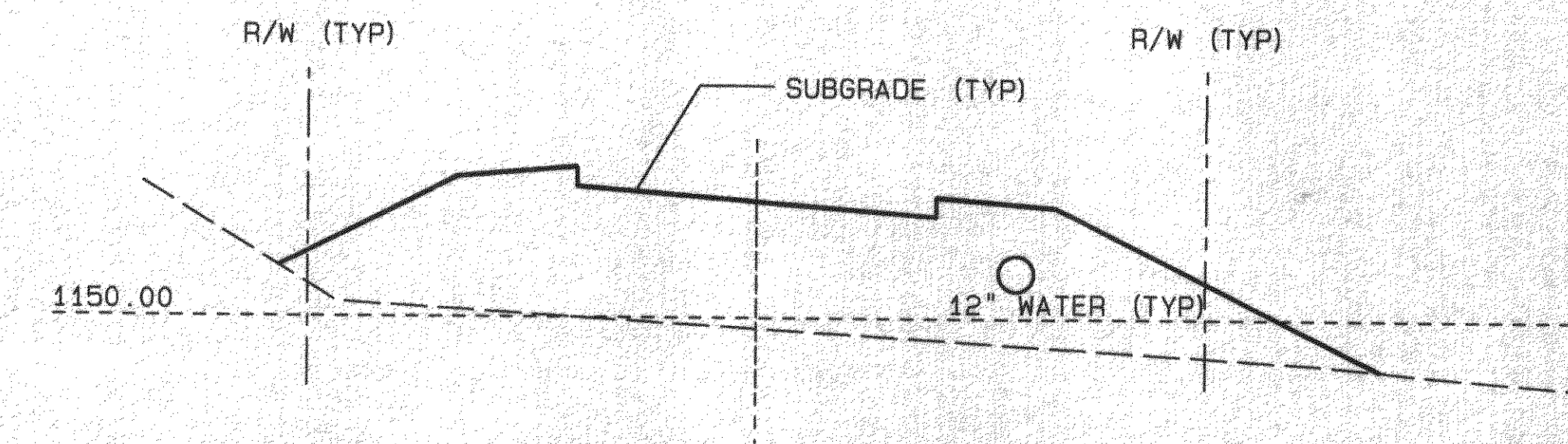
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15+50.00

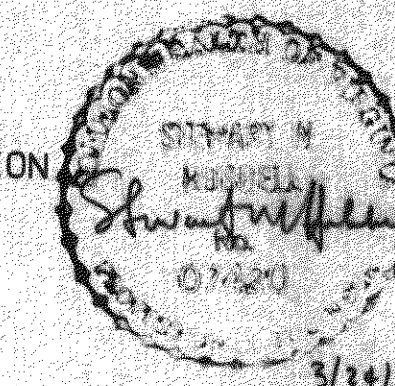


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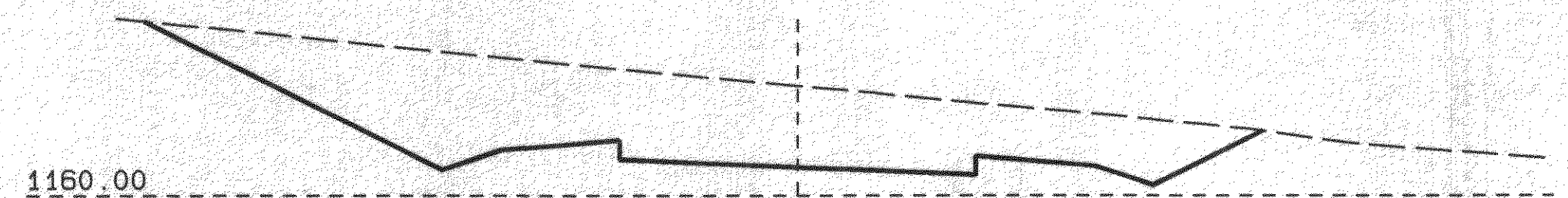


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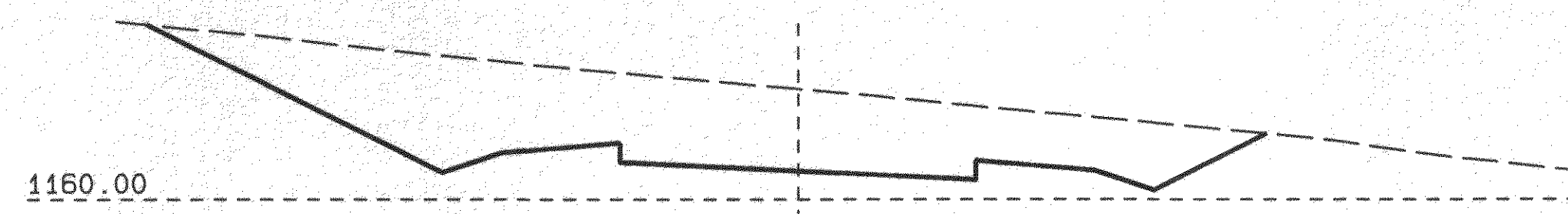
SEE SHEET 4 FOR TYPICAL ROAD SECTION



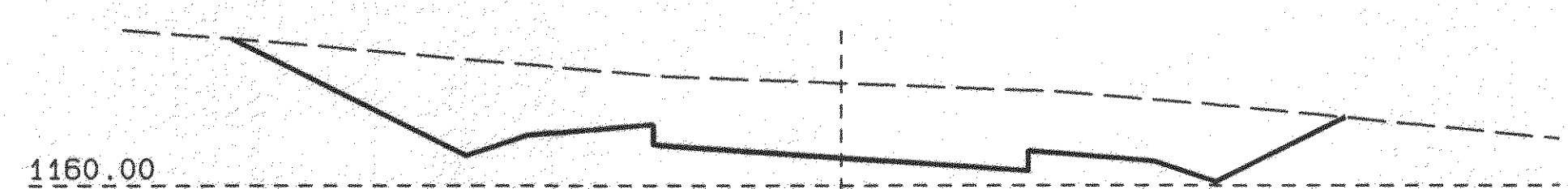
REV	DATE	DESCRIPTION	BY	APP
DSGN	DSG	EASTPARK COMMERCE CENTER - PHASE II		
DRAWN	HML	ACCESS ROAD CROSS SECTIONS		
CHKD		BOTETOURT COUNTY, VIRGINIA		
Mattern & Craig		1"=10' VERT	COMM.	
CONSULTING ENGINEERS		1"=10' HORZ	NO. 1034D	
SURVEYORS		DATE: MARCH 1994	SHEET 9	
		DRAWING # TEMP	V. 1.3	



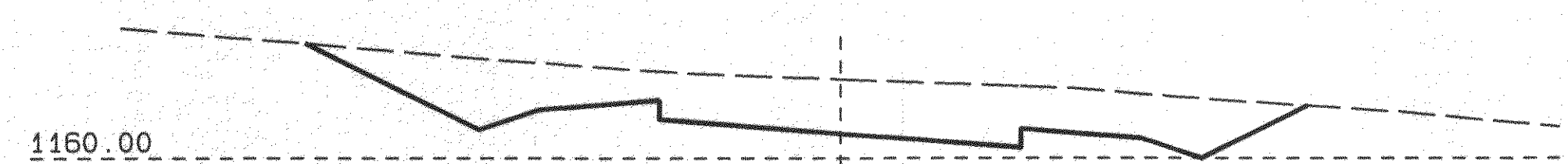
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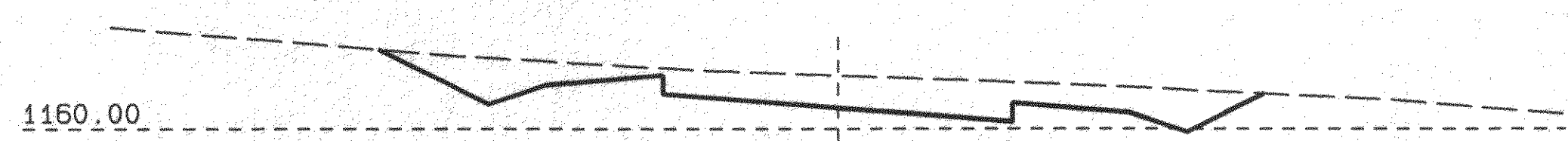
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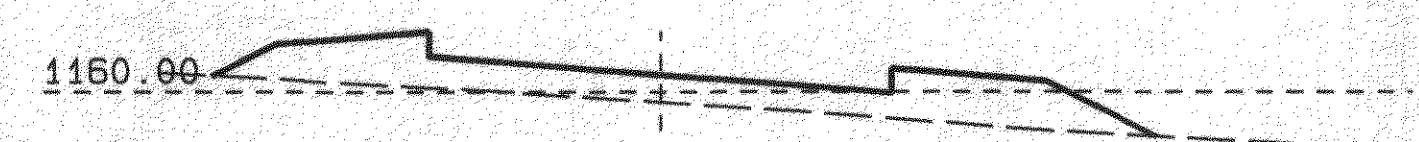
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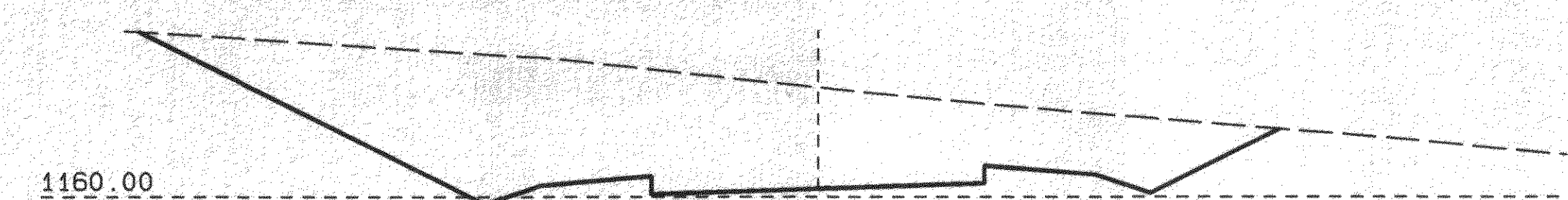
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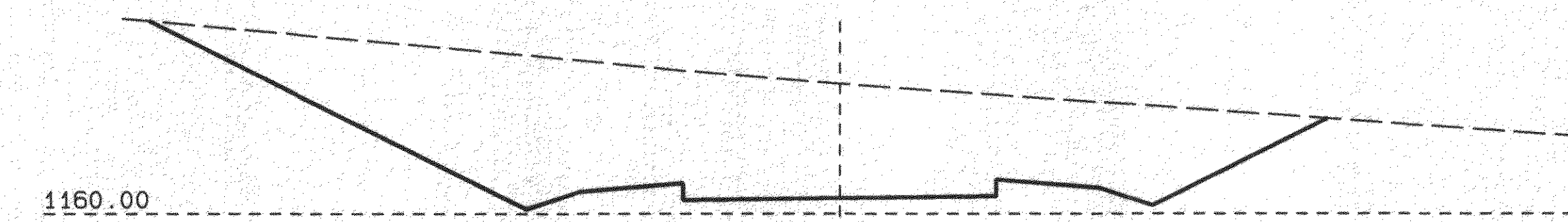
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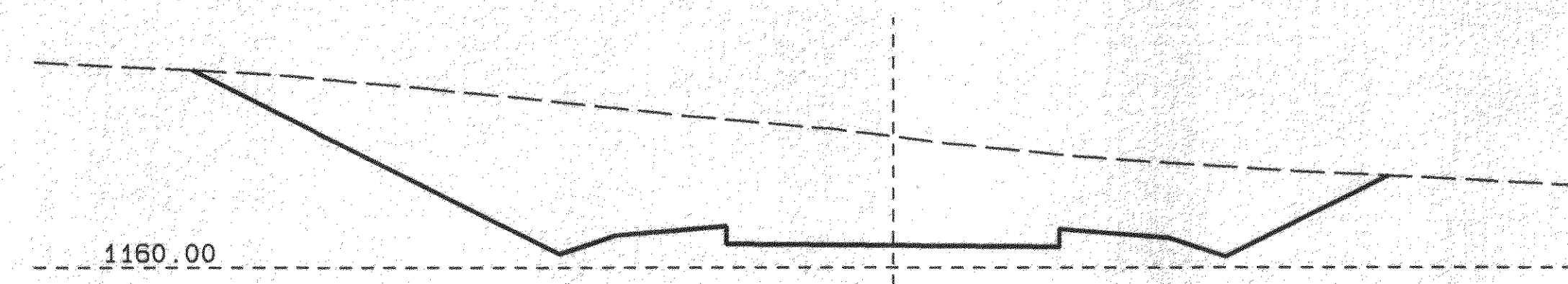
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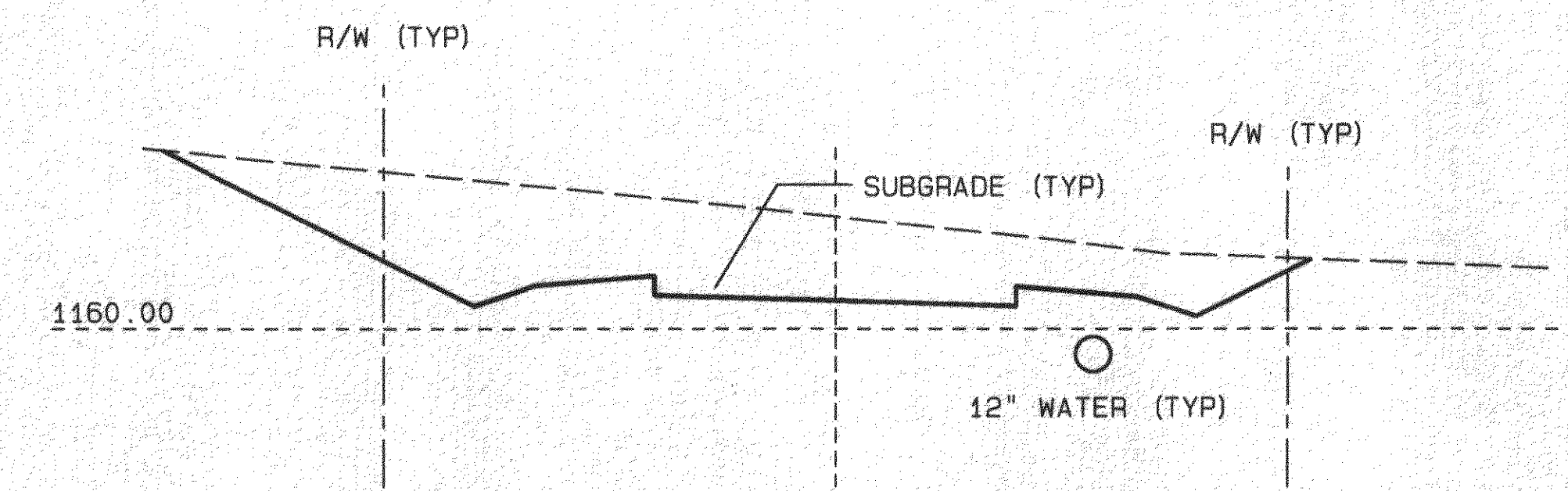
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19+50.00

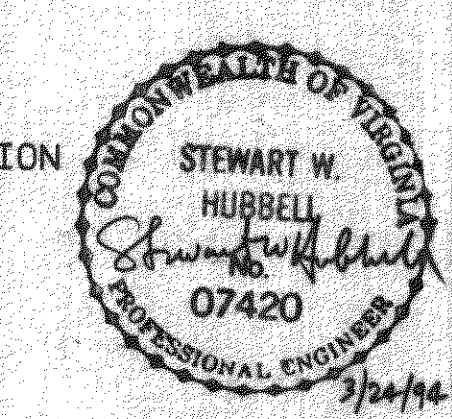


19+00.00



18+50.00

SEE SHEET 4 FOR TYPICAL ROAD SECTION



REV	DATE	DESCRIPTION	BY	APP
DSGN	DSG	EASTPARK COMMERCE CENTER - PHASE II		
DRAWN	HML	ACCESS ROAD CROSS SECTIONS		
CHKD		BOTETOURT COUNTY, VIRGINIA		
		1"=10' VERT 1"=10' HORZ	COMM. NO. 1034D	
		DATE: MARCH 1994	SHEET 10	

Mattern & Craig
CONSULTING ENGINEERS
SURVEYORS

1160.00

21+50.00

1160.00

21+13.93

1160.00

21+12.94

1160.00

21+00.00

1160.00

20+50.00

1150.00

22+60.76

1150.00

22+57.50

1150.00

22+50.00

R/W (TYP)

SUBGRADE (TYP)

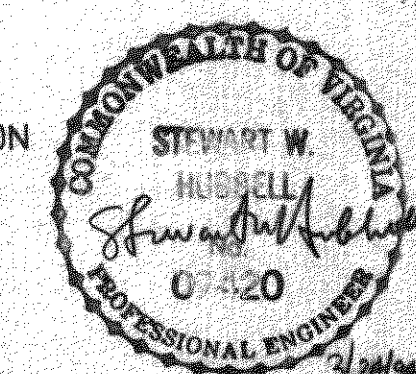
R/W (TYP)

1160.00

22+00.00

12" WATER (TYP)

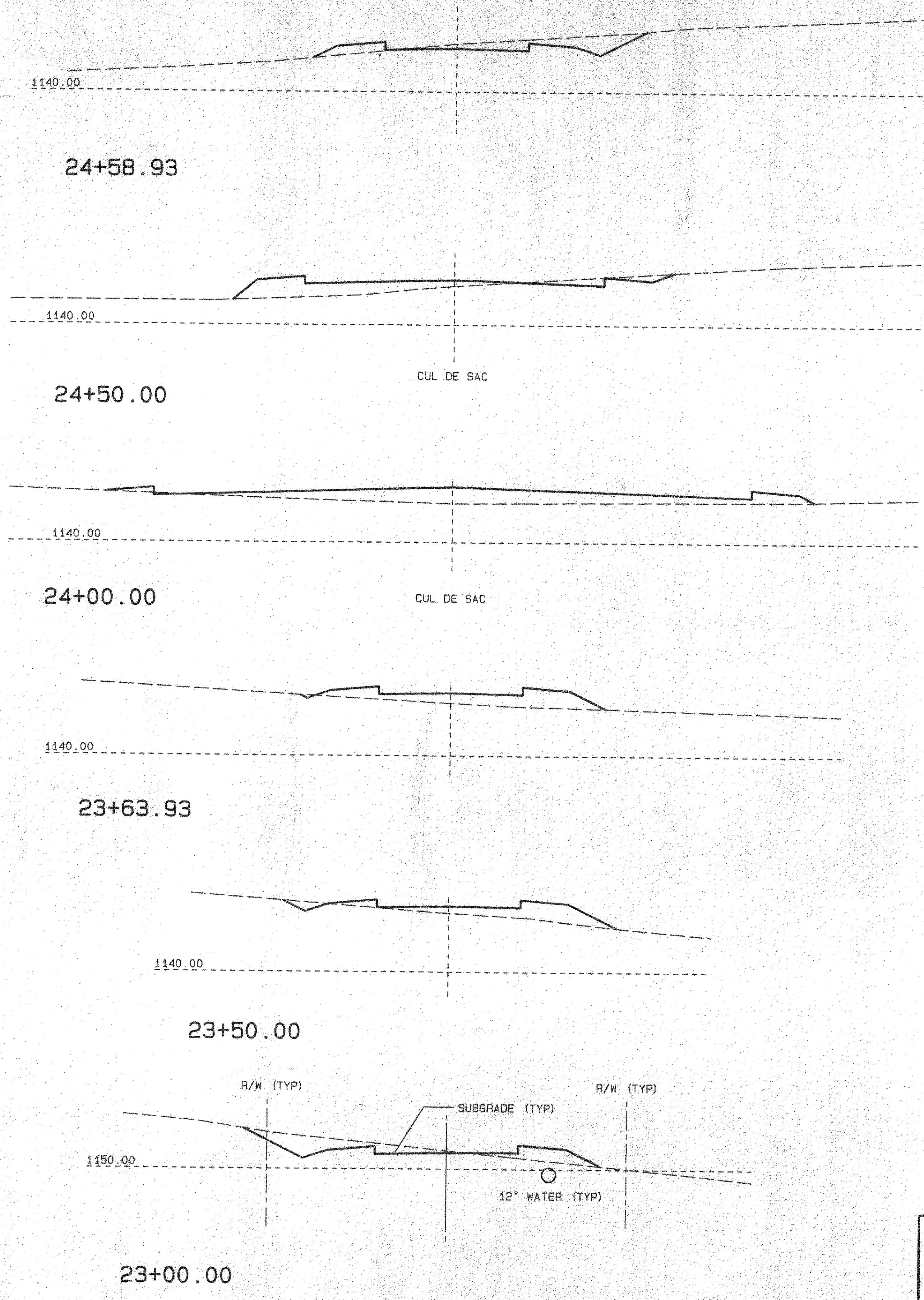
SEE SHEET 4 FOR TYPICAL ROAD SECTION



REV	DATE	DESCRIPTION	BY	APP
DSGN	DSG	EASTPARK COMMERCE CENTER - PHASE II		
DRAWN	HML	ACCESS ROAD CROSS SECTIONS		
CHKD		BOTETOURT COUNTY, VIRGINIA		
		SCALE: 1"=10' VERT 1"=10' HORZ	COMM. NO. 1034D	
		DATE: MARCH 1994	SHEET 11	
DRAWING # TEMP: V. 1.5				

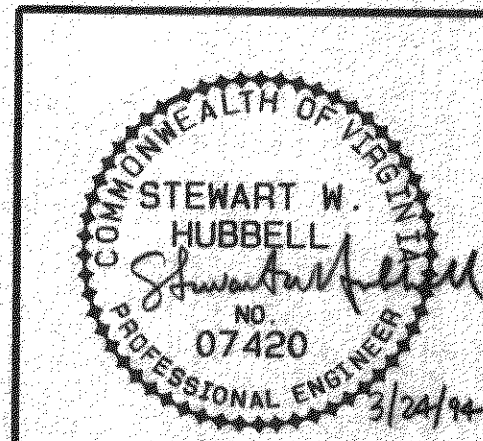
Mattern & Craig
CONSULTING ENGINEERS
SURVEYORS

1034D
A#



SEE SHEET 4 FOR TYPICAL ROAD SECTION

REV	DATE	DESCRIPTION	BY	APP
DSGN	DSG	EASTPARK COMMERCE CENTER - PHASE II		
DRAWN	HML	ACCESS ROAD CROSS SECTIONS		
CHKD		BOTETOURT COUNTY, VIRGINIA		
		SCALE: 1"=10' VERT 1"=40' HORZ	COMM. NO. 1034D	
		DATE: MARCH 1994	SHEET 12	



Mattern & Craig
CONSULTING ENGINEERS
SURVEYORS