The characteristics of a national digital topographic database

T. A. Adams

UNIVERSITY OF DURHAM

DEPARTMENT OF GEOGRAPHY

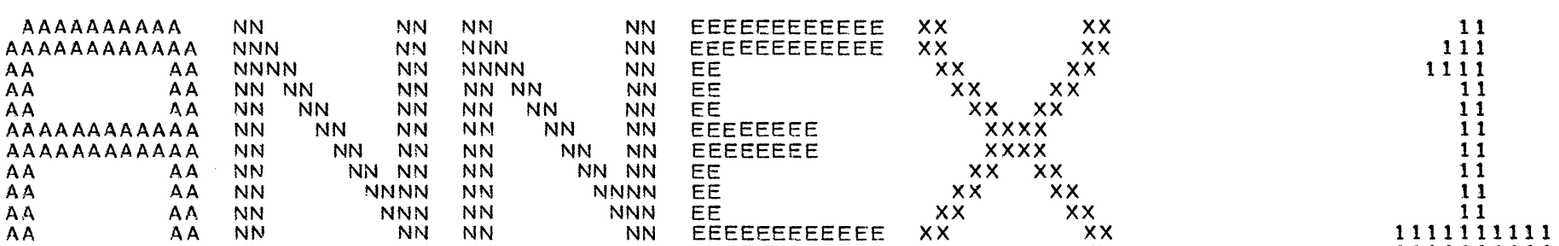
THE CHARACTERISTICS OF A NATIONAL DIGITAL TOPOGRAPHIC DATABASE

ANNEXURES TO THE MAIN TEXT OF A DISSERTATION PRESENTED IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE IN SPATIAL DATA ANALYSIS IN GEOGRAPHY

TIMOTHY A. ADAMS B.SC.
GRADUATE SOCIETY

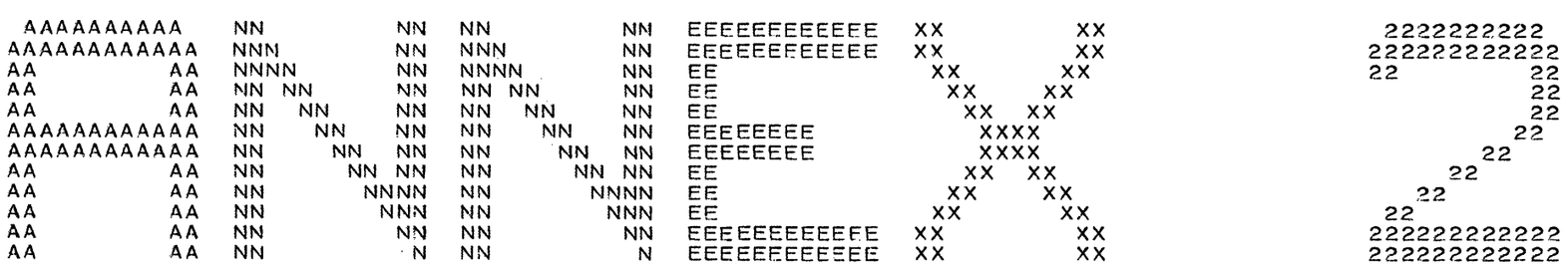
SEPTEMBER 1979

LIST OF ANNEXURES


AAAAAAAAAA NN NN NN NN EEEEEEEEEEEE XX XX 11
AAAAAAAAAAAA NNN NN NNN NN EEEEEEEEEEEE XX XX 111
AA AA NNNN NN NNNN NN EE XX XX 1111
AA AA NN NN NN NN NN NN EE XX XX 11
AA AA NN NN NN NN NN NN EE XX XX 11
AAAAAAAAAAAA NN NN NN NN NN NN EEEEEEEE XXXX 11
AAAAAAAAAAAA NN NN NN NN NN NN EEEEEEEE XXXX 11
AA AA NN NN NN NN NN NN EE XX XX 11
AA AA NN NNNN NN NNNN EE XX XX 11
AA AA NN NNN NN NNN EE XX XX 11
AA AA NN NN NN NN EEEEEEEEEEEE XX XX 1111111111
AA AA NN N NN N EEEEEEEEEEEE XX XX 1111111111

```
C
C
C*****************************************************************************
C
C       T H I S   I S   P R O G R A M   B Y F E A T U R E   (VERSION 2)
C
C
C           WRITTEN BY T. A. ADAMS - UNIVERSITY OF DURHAM  -  (13 JANUARY 1979)
C
C
C           THIS IS A PROGRAM TO MANIPULATE ORDNANCE SURVEY DIGITAL DATA IN
C           DMC FORMAT
C
C           OPTIONS ARE AVAILABLE TO 'DELETE' OR 'SELECT' USER DEFINED FEATURES
C           UP TO 20 FEATURE TYPES CAN BE MANIPULATED AT ANY TIME
C
C           DMC FORMAT IS PRESERVED THROUGHOUT
C
C        INPUT IS CURRENTLY ON LOGICAL UNIT 3 ATTACHED TO 'MAG'
C        OUTPUT IS CURRENTLY ON LOGICAL UNIT 2 ATTACHED TO 'NEW'
C
C
C*****************************************************************************
C
C
C
      DIMENSION FC(20)
      DATA FOUR/'  -4'/,FIVE/'  -5'/,TWO/'  -2'/,THREE/'  -3'/,BL/'    '
     1/,DEL/'DELE'/
      NEW=2
      MAG=3
      IN=5
      LP=6
      KOUNT=0
      IFLAG=0
      JFLAG=0
C
C------DETERMINATION OF WHETHER USER REQUIRES TO SELECT
C------OR DELETE SPECIFIC F/CODES
C
      WRITE(LP,2)
    2 FORMAT(///,' ARE YOU TO DELETE OR SELECT ?')
      READ(IN,5)WHAT
    5 FORMAT(A4)
      IF(WHAT.EQ.DEL)JFLAG=1
C
C------HOW MANY F/CODES TO BE HANDLED ?
C
      WRITE(LP,10)
   10 FORMAT(' HOW MANY FEATURE EXTRACTIONS  (I3)')
      READ(IN,11)NO
   11 FORMAT(I3)
C
C------IS THE ASSIGNED NUMBER VALID ?
C
      IF(NO.LE.0)STOP 111
      IF(NO.GT.20)WRITE(LP,12)
   12 FORMAT(' LIMITS EXCEEDED---20 EXTRACTIONS ASSUMED')
      IF(NO.GT.20)NO=20
      WRITE(LP,13)
   13 FORMAT(' TYPE IN EACH FEATURE CODE (I4) FORMAT')
C
C------INPUT OF USER DEFINED F/CODE LIST
C
      DO 15 I=1,NO
   15 READ(IN,14)FC(I)
   14 FORMAT(A4)
C
C------ARE WE AT THE START OF A DIGITAL SHEET ?
C
      READ(MAG,16)ICHAR1,ICHAR2
   16 FORMAT(2I4)
      IF(ICHAR1.EQ.-1)GOTO18
      WRITE(LP,17)
   17 FORMAT(' JOB ABORTED....-1 CODE EXPECTED BUT NOT FOUND')
      STOP 999
C
C------INPUT OF OS DATA IN DMC FORMAT
C
   18 WRITE(NEW,16)ICHAR1,ICHAR2
      READ(MAG,19)IRE,IRN,IGRID,ISCALE
   19 FORMAT(I3/I3/I5/I6)
      WRITE(NEW,19)IRE,IRN,IGRID,ISCALE
C
C
C
   21 READ(MAG,20,END=300)CHAR1,CHAR2
   20 FORMAT(2A4)
      IF(CHAR1.EQ.TWO)GOTO200
      IF(CHAR1.EQ.THREE)GOTO300
      IF(CHAR1.EQ.FOUR)GOTO400
      IF(CHAR1.EQ.FIVE)GOTO500
      IF(IFLAG.EQ.1)WRITE(NEW,20)CHAR1,CHAR2
      GOTO21
  200 WRITE(NEW,20)CHAR1,CHAR2
      WRITE(LP,201)
  201 FORMAT(' END OF SHEET DETECTED')
      WRITE(NEW,20)THREE,BL
      GOTO777
  300 WRITE(LP,301)
  301 FORMAT(' END OF FILE DETECTED BEFORE END OF SHEET...-2 INSERTED')
      WRITE(NEW,20)TWO,BL
      WRITE(NEW,20)THREE,BL
      GOTO777
  400 READ(MAG,20)TYPE1,TYPE2
      IFLAG=0
      DO 401 I=1,NO
  401 IF(TYPE2.EQ.FC(I))IFLAG=1
      IF(JFLAG.EQ.0)GOTO407
      IF(IFLAG)407,403,404
  403 IFLAG=1
      GOTO407
  404 IFLAG=0
  407 IF(IFLAG.EQ.1)WRITE(NEW,20)CHAR1,CHAR2
      IF(IFLAG.EQ.1)WRITE(NEW,20)TYPE1,TYPE2
      IF(IFLAG.EQ.1)KOUNT=KOUNT+1
      GOTO21
  500 IF(IFLAG.EQ.1)WRITE(NEW,20)CHAR1,CHAR2
```

```
      120          GOTO21
      121      777 WRITE(LP,778)KOUNT
      122      778 FORMAT(////,' JOB COMPLETED ',I6,' FEATURE CODES EXTRACTED',//)
      123          STOP 777
      124          END
END OF FILE
```



```
      REAL*8 SUMX1(271),SUMX2(271),SUMX3(271),SUMX4(271)
      DIMENSION CCOUNT(17),FCOUNT(271),FDCONT(271)
      DIMENSION PREFIX(13,7),QUADR(2,2)
      DIMENSION FLINES(271),
     1AVE(271),SD(271),SKEW(271),RKUR(271),FDMAX(271),FDMIN(271)
      DIMENSION FPTS(271)
      DIMENSION NDATE(2)
C
C*****************************************************************
C
C       PROGRAM TO ANALYSE O.S. DIGITAL DATA AS PART OF M.SC. THESIS.
C       WRITTEN BY T.A.ADAMS - UNIVERSITY OF DURHAM. (MARK 4 - 20-06-79)
C       INPUT OF THE MAP DATA IS CURRENTLY ON LOGICAL UNIT 3
C       (CAN BE ALTERED WITH DIFFERENT ASSIGNMENT TO 'MAG')
C       OUTPUT VIA LINE PRINTER IS CURRENTLY ON LOGICAL UNIT 2
C       (CAN BE ALTERED WITH DIFFERENT ASSIGNMENT TO 'LP')
C       INPUT OF THE PROGRAM COMMANDS IS CURRENTLY ON LOGICAL UNIT 5
C       (CAN BE ALTERED WITH DIFFERENT ASSIGNMENT TO 'ITT')
C       OUTPUT VIA TERMINAL FOR PROGRAM MESSAGES IS CURRENTLY
C       ON LOGICAL UNIT 6
C       (CAN BE ALTERED WITH DIFFERENT ASSIGNMENT TO 'MESS')
C       INPUT/OUTPUT TO LOGICAL UNIT 10 IS A DISK FILE TO STORE
C       CUMULATIVE DIGITAL DATA STATISTICS --
C       INPUT/OUTPUT TO LOGICAL UNIT 11 IS A DISK FILE TO STORE
C       THE SHEET NAMES OF EACH MAP AS IT HAS BEEN PROCESSED
C       INPUT/OUTPUT TO LOGICAL UNIT 12 IS A DISK FILE TO STORE
C       DIGITAL DATA STATISTICS PER MAP SHEET FOR INDIVIDUAL PULLOUT
C       BY THE PROGRAM COMMAND 'RECOVERY'
C       OUTPUT FROM FILE 13 IS A FEATURE CODE DESCRIPTION
C       DATABASE - THE DISK FILE IS RANDOM ACCESS
C       EACH RECORD IS FORMATTED 80A1
C
C          CURRENT FLAGS IN OPERATION:
C       IFLAG  -  PROVIDES A CHECK THAT MAP CODES -1 TO -5 ALL TALLY
C       JFLAG  -  SET TO 1 DURING AN IGNORED CODE (I.E. CODED 0,>271)
C       KFLAG  -  IS NORMALLY SET TO 0 BUT IS SET TO 1 FOR EVERY FEATURE
C                 WHICH INVOLVES THE JOINING OF 2 OR MORE CO-ORD. SETS
C       LFLAG  -  IS SET TO 0 WHILST ANALYSIS IS EITHER CURRENTLY INSIDE
C                 MAP DATA OR AT END OF FILE, BUT IS SET TO 1 WHILST
C                 ANALYSIS IS OUTSIDE MAP DATA WITHIN  THE DATA FILE
C       MFLAG  -  IS IN COMMON/ONE/ AND COUNTS THE NUMBER OF LINES ON THE
C                 CURRENT FEATURE IF IT IS OF THE LINE TYPE
C       LNTEST -  SET TO 0 NORMALLY BUT CET TO 1 FOR -7 TYPE CODES
C       MAPCNT -  COUNTS THE NO. OF ANALYSES DONE -- MAX = 20 --
C
C          STORAGE ARRAYS IN OPERATION:
C       CCOUNT(17)    -  COUNTS THE FREQUENCY OF EACH -TYPE CODE
C       FCOUNT(271)   -  COUNTS THE FREQUENCY OF EACH MAP FEATURE TYPE
C       FDCONT(271)   -  COUNTS THE DISTANCE OF LINES GENERATED ON EACH
C                        FEATURE
C       FDMAX(271)    -  ACCUMULATES THE MAX DISTN. BETWEEN TWO POINTS
C                        ON A LINE FEATURE
C       FDMIN(271)    -  ACCUMULATES THE MIN DISTN. BETWEEN TWO POINTS
C                        ON A LINE FEATURE
C       FPTS(271)     -  COUNTS THE NO. OF DIGITISED POINTS USED PER
C                        LINE TYPE FEATURE
C       SUMX1(271)    -  IS NOT DISPLAYED AS SUCH - BUT STORES THE SUM OF
C                        THE DISTANCES
C                        PER FEATURE TYPE IN ORDER TO COMPUTE A MEAN DISTN.
C                        BETWEEN PTS
C                        FOR EACH FEATURE (COMPUTATION IN ROUTINE GUASS)
C       SUMX2(271)    -  AS SUMX1(271) BUT SUM OF DISTANCES SQUARED FOR
C                        STANDARD DEVIATION
C       SUMX3(271)    -  AS SUMX1(271) BUT SUM OF DISTANCES CUBED FOR
C                        SKEWNESS
C       SUMX4(271)    -  AS SUMX1(271) BUT SUM OF DISTANCES TO THE FOURTH
C                        POWER FOR KURTOSIS
C        N.B.         -    SUMX1, SUMX2, SUMX3, SUMX4 ARRAYS ARE
C                       REAL*8 VARIABLES
C
C          STORAGE VARIABLES IN OPERATION:
C       RLINE    -  COUNTS THE NO. OF INTERNAL FEATURE LINES (-7 TYPE)
C       RILINE   -  COUNTS THE NO. OF INVISIBLE INTERNAL FEATURE LINES
C       CDIST    -  COUNTS THE CUMULATIVE DISTANCE OF THESE LINES
C       CMDIST   -  CONVERTS CDIST TO MAP SCALE
C       RLETT    -  COUNTS THE NO. OF CHARACTERS PER ANALYSIS
C       RDIST    -  ACCUMULATES DISTANCES GENERATED BY THE -15 CODE
C       FDIST    -  SEPERATES CDIST INTO ITS FEATURE BREAKDOWN FOR FDCOUNT
C       PTS      -  COUNTS THE NUMBER OF POINTS IN THE FILE
C       RECS     -  COUNTS THE NUMBER OF RECORDS IN THE FILE
C     RIGNOR     -  COUNTS THE NUMBER OF IGNORED CODES (ILLEGAL SPEC.)
C
C*****************************************************************
C
C      DEFINE FILE 10(600,4,L,NEXT)
C      DEFINE FILE 11(600,12,E,NEXT)
       DATA WHAT/4H    /,STUS/4HSTAT/,ANLS/4HANAL/,RINT/4HINIT/,QUIT/4HQU
     1IT/,PULL/4HRECO/,DESC/4HDESC/,STRA/4HSTRA/
C      DATA CCOUNT/17*0./,FCOUNT/271*0./,RLETT/0./,RDIST/0./,IFLAG/0/
C      DATA RLINE/0./,LFLAG/0/,FDCONT/271*0./,RILINE/0./
C
C------PREFIX CODES FOR THE ACTUAL O.S. MAP SHEET REFERENCE
C
       DATA PREFIX/'SV','SQ','SL','SF','SA','NV','NQ','NL','NF','NA','HV'
     1,'HQ','HL','SW','SR','SM','SG','SB','NW','NR','NM','NG','NB','HW',
     2'HR','HM','SX','SS','SN','SH','SC','NX','NS','NN','NH','NC','HX','
     3HS','HN','SY','ST','SO','SJ','SD','NY','NT','NO','NJ','ND','HY','H
     4T','HO','SZ','SU','SP','SK','SE','NZ','NU','NP','NK','NE','HZ','HU
     5','HP','TV','TQ','TL','TF','TA','OV','OQ','OL','OF','OA','JV','JQ'
     6,'JL','TW','TR','TM','TG','TB','OW','OR','OM','OG','OB','JW','JR',
     7'JM'/,QUADR/'SW','NW','SE','NE'/
       COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
       COMMON/TWO/CCOUNT,FCOUNT,FDCONT,RLETT,RLINE,RILINE,TLINE,
     1CMDIST,IPX1,IPY1,SCALE,IPX2,IPY2,IPX,IPY,RECS,PTS,RIGNOR,RECIG
       COMMON/THREE/MAG,LP,ITT,MESS
       COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
     1FDMAX,FDMIN,FPTS
       JFLAG=0
       LFLAG=0
       ITT=5
       MESS=6
       MAPCNT=0
       LP=2
       MAG=3
C
C------INPUT OF THE OS DATA STUDY USER COMMANDS
C
       WRITE(MESS,5)
     5 FORMAT(' O.S. DATA STUDY --- TYPE IN INSTRUCTION, OR HELP, OR QUIT
     1')
```

```
      10 READ(ITT,1101,END=399,ERR=15)WHAT
         IF(WHAT.EQ.STUS)CALL STATUS(WHAT)
         IF(WHAT.EQ.RINT)CALL INIT
         IF(WHAT.EQ.PULL)CALL PULOUT
         IF(WHAT.EQ.STRA)CALL STRFY
         IF(WHAT.EQ.DESC)CALL FEATCO
         IF(WHAT.EQ.QUIT)STOP 888
         IF(WHAT.EQ.ANLS)GOTO25
      15 WRITE(MESS,20)
      20 FORMAT(' ? -- COMMANDS ALLOWED ARE: ANALYSIS, STATUS, INITIALISE,'
        1,' RECOVERY, QUIT, DESCRIPTION, STRATIFY'/7X' (FIRST FOUR CHA',
        1,'RACTERS WILL SUFFICE) ',/,7X,'OK -- PLEASE RETYPE')
         GOTO10
C
C------ANALYSIS ROUTINE - INITIALISATION OF ACCUMULATORS
C
      25 MFLAG=0
         RILINE=0.
         CDIST=0.
         RIGNOR=0.
         RECIG=0.
         RECS=0.
         PTS=0.
         IPX2=1
         IPY2=1
         DO 30 I=1,271
         FCOUNT(I)=0.
         FDCONT(I)=0.
         FLINES(I)=0.
         SUMX1(I)=0.
         SUMX2(I)=0.
         SUMX3(I)=0.
         SUMX4(I)=0.
         FDMAX(I)=0.
         FDMIN(I)=32767.
         AVE(I)=0.
         SKEW(I)=0.
         RKUR(I)=0.
         FPTS(I)=0.
         SD(I)=0.
         FLINES(I)=0.
      30 CONTINUE
         DO 35 I=1,17
      35 CCOUNT(I)=0.
         RLETT=0.
         RDIST=0.
         IFLAG=0
         RLINE=0.
C
C------INPUT OF EACH LINE FROM THE O.S. DATA FILE
C
      40 READ(MAG,45,END=301,ERR=301)ICHAR1,ICHAR2
      45 FORMAT(2I4)
         IF(JFLAG.EQ.1.AND.ICHAR1.EQ.-4)JFLAG=0
         IF(JFLAG.EQ.1.AND.ICHAR1.EQ.-2)JFLAG=0
         IF(JFLAG.EQ.1.AND.ICHAR1.EQ.-3)JFLAG=0
         IF(LFLAG.EQ.0.AND.JFLAG.EQ.0)RECS=RECS+1.
         IF(JFLAG.EQ.1)RECIG=RECIG+1.
         IF(JFLAG.EQ.1.AND.ICHAR1.EQ.-11)GOTO2000
         IF(JFLAG.EQ.1)GOTO40
         IF(LFLAG.EQ.1)GOTO1900
      50 IF(ICHAR1.GE.0)GOTO1800
         ICHEK=ICHAR2
C
C------SELECT THE APPROPRIATE ACTION TO TAKE DEPENDING
C------ON WHICH MINUS (-) CODE HAS BEEN DETECTED
C
         IROUTE=IABS(ICHAR1)
         GOTO(100,200,300,400,500,600,700,800,900,1000,
        11100,1200,1300,1400,1500,1600,1700),IROUTE
C
C------CODES -1 TO -5 DO NOT TALLY
C
         WRITE(LP,55)ICHAR1,FNO
      55 FORMAT(///,100('*'),//,' *****ERROR***** CODE 1 READ AS',
        11X,I6,' DURING FEATURE NO. ',F8.0,//,100('*'),/)
         STOP
     100 WRITE(MESS,101)
     101 FORMAT(1H ,'START OF SHEET DETECTED')
         MAPCNT=MAPCNT+1
         CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
         READ(MAG,102)REFE,REFN,SQSIZE,SCALE
     102 FORMAT(F8.0/F8.0/F8.0/F8.0)
         RECS=RECS+4.
C
C------DETERMINATION OF ACTUAL O.S. REFERENCE FOR THE MAP SHEET
C------FROM THE SUPPLIED COORDS OF THE SHEET L. H. CORNER
C
         IF(SCALE.GT.2500)GOTO40
         IPX=INT(REFE/100000.)
         IPY=INT(REFN/100000.)
         IPX1=INT((REFE-(FLOAT(IPX)*100000.))/1000.)
         IPY1=INT((REFN-(FLOAT(IPY)*100000.))/1000.)
         IPX=IPX+1
         IPY=IPY+1
         IF(SCALE.EQ.1250.)GOTO104
         WRITE(MESS,103)PREFIX(IPY,IPX),IPX1,IPY1
     103 FORMAT(/,' ANALYSIS ON MAP SHEET ',A2,1X,2I2,/)
         GOTO40
     104 IPXX=INT(REFE-(FLOAT(IPX-1)*100000.)-(FLOAT(IPX1)*1000.))
         IPYY=INT(REFN-(FLOAT(IPY-1)*100000.)-(FLOAT(IPY1)*1000.))
         IF(IPXX.EQ.500)IPX2=2
         IF(IPYY.EQ.500)IPY2=2
         WRITE(MESS,105)PREFIX(IPY,IPX),IPX1,IPY1,QUADR(IPY2,IPX2)
     105 FORMAT(/,' ANALYSIS ON MAP SHEET ',A2,1X,2I2,A2,/)
C
C------END OF SHEET DETECTED, HENCE SET THE OUTPUT
C------OF RESULTS ROUTINE INTO OPERATION
C
         GOTO40
     200 WRITE(MESS,201)
     201 FORMAT(' END OF SHEET DETECTED')
         CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
C
C------DETERMINATION OF GUASSIAN STATISTICS
C
         DO 202 I=1,271
         IF(FLINES(I).EQ.0.)GOTO202
         CALL GUASS(FLINES(I),SUMX1(I),SUMX2(I),SUMX3(I),SUMX4(I),AVE(I),SD
        1(I),SKEW(I),RKUR(I),FCOUNT(I))
```

```
241       202 CONTINUE
242       C
243       C------TEST IF THERE IS CONSISTENCY IN THIS SHEETS
244       C------CODES -1 TO -5
245       C
246             LFLAG=1
247             IF(CCOUNT(1).EQ.CCOUNT(2))IFLAG=IFLAG+1
248             IF(CCOUNT(4).EQ.CCOUNT(5))IFLAG=IFLAG+1
249             WRITE(LP,205)CCOUNT(1)
250         205 FORMAT(1H1,//,' RESULTS OF THE ANALYSIS OF ',F4.0,' MAP SHEETS',
251            1/,1X,42('='),///)
252       C
253       C-----OUTPUT OF THE ACTUAL O.S. REFERENCE FOR THE MAP SHEET
254       C
255             IF(SCALE.EQ.2500.)WRITE(LP,103)PREFIX(IPY,IPX),IPX1,IPY1
256             IF(SCALE.EQ.1250.)WRITE(LP,105)PREFIX(IPY,IPX),IPX1,IPY1,QUADR
257            1(IPY2,IPX2)
258             IF(IFLAG.EQ.2)GOTO215
259       C
260       C------INFORM USER OF INCONSISTENCY IN CODES -1 TO -5
261       C
262             WRITE(LP,210)
263         210 FORMAT(100('*'),//,' *****ERRORS HAVE BEEN DETECTED.....CHECK',
264            1' CODES -1 TO -5*****',//,100('*'),//)
265         215 WRITE(LP,220)SCALE
266         220 FORMAT(/' THE PLOTTING SCALE OF THE MAPS WERE 1 :',F8.0,///)
267       C
268       C------PRINT RESULTS ON LP THEN STORE THESE ALSO ON DISK
269       C
270             CALL PRINT
271             CALL STORE
272             IF(MAPCNT.GE.40)GOTO300
273             GOTO25
274       C
275       C------END OF FILE DETECTED HENCE STOP THE PROGRAM
276       C
277         300 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
278         301 WRITE(LP,302)
279         302 FORMAT(' END OF FILE DETECTED')
280       C
281       C------DETERMINATION OF TODAYS DATE FOR OUTPUT THEN STOP
282       C
283             CALL TIME(10,0,NDATE)
284             WRITE(LP,398)NDATE
285         398 FORMAT(///,' END OF ANALYSIS --- T.A.ADAMS (',2A4,')',/////)
286         399 STOP
287       C
288       C
289       C------APPROPRIATE ACTIONS ON THE DETECTION OF THE (-) CODES
290       C
291       C
292       C------START OF NEW FEATURE
293       C
294         400 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
295             FNO=FLOAT(ICHAR2)
296             KFLAG=0
297             MFLAG=0
298             FDIST=0.
299             LNTEST=0
300             GOTO40
301       C
302       C------END OF CURRENT FEATURE
303       C
304         500 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
305             IF(LNTEST.EQ.0)GOTO40
306             FDCONT(IFNO)=FDCONT(IFNO)+(FDIST*1000./SCALE)
307             GOTO40
308       C
309       C------DUMMY CODE  -  NO ACTION
310       C
311         600 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
312             GOTO40
313       C
314       C------LINE FEATURE DETECTED
315       C
316         700 LNTEST=1
317             IF(ICHAR2.GT.271.OR.ICHAR2.LE.0)GOTO701
318             JFNO=ICHAR2
319             CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
320             FCOUNT(ICHAR2)=FCOUNT(ICHAR2)+1.
321             IFNO=ICHAR2
322             GOTO40
323         701 WRITE(LP,702)FNO,ICHAR2
324         702 FORMAT(' FEATURE NO. ',F8.0,' IS CODED AS ',I4,' ...IGNORED')
325             RIGNOR=RIGNOR+1.
326             JFLAG=1
327             RECS=RECS-2.
328             RECIG=RECIG+2.
329             CCOUNT(4)=CCOUNT(4)-1.
330             GOTO40
331       C
332       C------POINT OR TEXT FEATURE DETECTED
333       C
334         800 IF(ICHAR2.GT.271.OR.ICHAR2.LE.0)GOTO 701
335             JFNO=ICHAR2
336             CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
337             FCOUNT(ICHAR2)=FCOUNT(ICHAR2)+1.
338             GOTO40
339       C
340       C------STARTING GRID SQUARE OR A PASS INTO A NEW GRID
341       C------SQUARE FOR THE CURRENT FEATURE
342       C
343         900 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
344             IF(MFLAG.GT.0)GOTO902
345             READ(MAG,45)IGRDE,IGRDN
346             RECS=RECS+1.
347             NEWGE=IGRDE
348             NEWGN=IGRDN
349             READ(MAG,901)STPTE,STPTN
350             PTS=PTS+1.
351             FPTS(JFNO)=FPTS(JFNO)+1.
352         901 FORMAT(2F4.3)
353             RECS=RECS+1.
354             CALL SYMDN(JFNO,STPTE,STPTN,IGRDE,IGRDN)
355             GOTO40
356         902 READ(MAG,45)NEWGE,NEWGN
357             READ(MAG,901)CONTE,CONTN
358             RLINE=RLINE+1.
359             RECS=RECS+2.
```

```
361           FPTS(JFNO)=FPTS(JFNO)+1.
362           CALL SYMDN(JFNO,CONTE,CONTN,NEWGE,NEWGN)
363           GOTO40
364     C
365     C------TEXT CLASSIFICATION
366     C
367      1000 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
368           READ(MAG,1001)ISTYLE,HT
369           RECS=RECS+1.
370      1001 FORMAT(I4,F4.1)
371           GOTO40
372     C
373     C------CHARACTER (TEXT) READS AND A COUNT OF HOW MANY
374     C------THERE ARE
375     C
376      1100 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
377           RLETT=RLETT+FLOAT(ICHAR2)
378           TEXTNO=FLOAT(ICHAR2)/8.
379           ITEXT=INT(TEXTNO)
380           TEXTNO=TEXTNO-FLOAT(ITEXT)
381           IF(TEXTNO.GT.0.)ITEXT=ITEXT+1
382           DO 1102 I=1,ITEXT
383           READ(MAG,1101)TEXT1,TEXT2
384      1101 FORMAT(2A4)
385           RECS=RECS+1.
386      1102 CONTINUE
387           GOTO40
388      1200 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
389           GOTO40
390     C
391     C------INVISIBLE LINE FLAG DETECTED
392     C
393      1300 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
394     C
395     C------INVISIBLE LINE COUNT
396     C
397           RILINE=RILINE+1.
398           RLINE=RLINE-1.
399           GOTO40
400     C
401     C------DUMMY CODE  -  UNUSED
402     C
403      1400 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
404           GOTO40
405     C
406     C------SPECIAL -15 DISTANCE CODE (BEARING AND DISTANCE)
407     C
408      1500 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
409           RDIST=RDIST+ICHAR2
410           GOTO40
411     C
412     C------DUMMY CODE  -  UNUSED
413     C
414      1600 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
415           GOTO40
416     C
417     C------CONTOUR DETECTED WITH APPROPRIATE HT VALUE
418     C
419      1700 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
420           READ(MAG,1701)HTE,HTN
421      1701 FORMAT(2F4.3)
422           RECS=RECS+1.
423           GOTO40
424     C
425     C------PROCEDURE TO RUN WHEN THE NEXT IN A SET OF COORDS HAS BEEN READ
426     C
427      1800 RLINE=RLINE+1.
428           PTS=PTS+1.
429           FPTS(JFNO)=FPTS(JFNO)+1.
430           KFLAG=1
431           XPT=FLOAT(ICHAR1)/1000.
432           YPT=FLOAT(ICHAR2)/1000.
433           CALL SYMDN(JFNO,XPT,YPT,NEWGE,NEWGN)
434           GOTO40
435     C
436     C------IS THE ANALYSIS INSIDE A MAP SHEET DATA SET?
437     C
438      1900 IF(ICHAR1.EQ.-1.OR.ICHAR1.EQ.-3)LFLAG=0
439           IF(LFLAG.EQ.0)RECS=RECS+1.
440           IF(ICHAR1.EQ.-6)GOTO50
441           IF(LFLAG.EQ.0)GOTO50
442           GOTO40
443     C
444     C------HANDLING OF IGNORED TEXT...THE NEED FOR AN A4 FORMAT
445     C
446      2000 T=FLOAT(ICHAR2)/8.
447           IT=INT(T)
448           T=T-FLOAT(IT)
449           IF(T.GT.0.)IT=IT+1
450           DO 2001 I=1,IT
451           READ(MAG,1101)T1,T2
452           RECIG=RECIG+1.
453      2001 CONTINUE
454           GOTO40
455           END
456     C
457     C
458     C
459     C
460     C
461           SUBROUTINE SYMDN(JFNO,X,Y,IGRDE,IGRDN)
462     C
463     C------SUBROUTINE TO COMPUTE THE TOTAL DISTANCES GENERATED BY LINE
464     C------FEATURES.--(OTHER THAN THOSE ASSIGNED BY CODE -15)
465     C
466     C
467           REAL*8 SUMX1(271),SUMX2(271),SUMX3(271),SUMX4(271)
468           DIMENSION COORDE(2),COORDN(2)
469           DIMENSION FLINES(271),
470          1AVE(271),SD(271),SKEW(271),RKUR(271),FDMAX(271),FDMIN(271)
471           DIMENSION FPTS(271)
472           COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
473           COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
474          1FDMAX,FDMIN,FPTS
475           IF(LNTEST.EQ.0)GOTO5
476           FULLE=REFE+(IGRDE*SQSIZE)+(X*SQSIZE)
477           FULLN=REFN+(IGRDN*SQSIZE)+(Y*SQSIZE)
478           I=MFLAG-1
```

```
      2 J=2
        IF(MFLAG.LT.2)GOTO3
        COORDE(1)=COORDE(2)
        COORDN(1)=COORDN(2)
      3 COORDE(J)=FULLE
        COORDN(J)=FULLN
        IF(J.EQ.1)GOTO4
        DIST=SQRT((COORDE(1)-COORDE(2))**2+(COORDN(1)-COORDN(2))**2)
        CDIST=CDIST+DIST
        FDIST=FDIST+DIST
C
C------ACCUMULATION OF MEAN, SD, SKEW, KURT. PARAMETERS
C
        SUMX1(JFNO)=SUMX1(JFNO)+DIST
        SUMX2(JFNO)=SUMX2(JFNO)+(DIST**2)
        SUMX3(JFNO)=SUMX3(JFNO)+(DIST**3)
        SUMX4(JFNO)=SUMX4(JFNO)+(DIST**4)
        FLINES(JFNO)=FLINES(JFNO)+1.
C
C------IS THIS DISTN. A MAX OR MIN FOR THIS FEATURE SO FAR?
C
        INDEX=IFIX(FLINES(JFNO))
        CALL FMSET(DIST,INDEX,FDMAX(JFNO),FDMIN(JFNO))
      4 MFLAG=MFLAG+1
      5 RETURN
        END
C
C
C
C
C
C
        SUBROUTINE PRINT
C
C
C------THIS IS A SUBROUTINE TO GENERATE LINE PRINTER OUTPUT OF THE
C------THE ANALYSIS RESULTS. IT EXECUTES DURING EITHER AN ANALYSIS
C------RUN OR A STATUS RUN.
C
C
C------PRINT GENERATES APPROX. 4 PAGES (NUMAC SMALL SIZE) ON A
C------STATUS RUN AND 3 ON AN ANALYSIS RUN.
C
C
        REAL*8 SUMX1(271),SUMX2(271),SUMX3(271),SUMX4(271)
        DIMENSION CCOUNT(17),FCOUNT(271),FDCONT(271)
        DIMENSION FLINES(271),
       1AVE(271),SD(271),SKEW(271),RKUR(271),FDMAX(271),FDMIN(271)
        DIMENSION FPTS(271)
        DIMENSION A(80)
        COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
        COMMON/TWO/CCOUNT,FCOUNT,FDCONT,RLETT,RLINE,RILINE,TLINE,
       1CMDIST,IPX1,IPY1,SCALE,IPX2,IPY2,IPX,IPY,RECS,PTS,RIGNOR,RECIG
        COMMON/THREE/MAG,LP,ITT,MESS
        COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
       1FDMAX,FDMIN,FPTS
        WRITE(LP,10)(I,CCOUNT(I),I=1,17)
     10 FORMAT(//,5X,'FREQUENCIES',/,5X,11('-'),///,I4,' START OF SHEET',9
       1X,F9.0,//,I4,' END OF SHEET',11X,F9.0,//,I4,' END OF FILE',12X,F9.
       20,//,I4,' START OF FEATURE',7X,F9.0,//,I4,' END OF FEATURE',9X,F9.
       30,//,I4,' NO ACTION (7 TRK)',6X,F9.0,//,I4,' FEATURES (LINE)',8X,F
       49.0,//,I4,' FEATURES (TEXT,SYMBOL)',1X,F9.0,//,I4,' GRID SQUARE IN
       5DICATOR',2X,F9.0,//,I4,' TEXT CLASSIFICATION',4X,F9.0,//,I4,' CHAR
       9ACTER CALLS ',7X,F9.0,//,I4,' NO OF ORIENTATIONS',5X,F9.0,//,I4,'
       7INVISIBLE LINE FLAG',4X,F9.0,//,I4,' N/A',20X,F9.0,//,I4,' DISTANC
       8E CALLS ',8X,F9.0,//,I4,' N/A',20X,F9.0,//,I4,' CONTOUR CALLS',10X
       9,F9.0,/////)
        WRITE(LP,15)
     15 FORMAT(1H1,/,21X,'FEATURES INCLUDED',/,21X,17('='),///)
        WRITE(LP,16)
     16 FORMAT(60X,'----GROUND----',25X,'------GROUND------')
        WRITE(LP,17)
     17 FORMAT(19X,'NO.',5X,'NO.',5X,'TOTAL LINE',5X,'GROUND',4X,'MEAN',
       1'  STANDARD',/,' F/CODE   FREQ.    PTS    LINES    LENGTH (MM)   '
       2,'DIST (M)   DIST  DEVIATION    SKEW    KURTOSIS    MAXIMUM    MIN
       3IMUM',/,1X,6('-'),2X,6('-'),1X,8('-'),1X,8('-'),2X,11('-'),2X,10('
       4-'),1X,6('-'),1X,9('-'),2X,7('-'),2X,11('-'),1X,10('-'),1X,10('-')
       5)
C
C------SUPPRESSION OF INFO NOT RELEVANT TO CURRENT MAP SHEET
C
        DO 22 J=1,271
        IF(FCOUNT(J).EQ.0.)GOTO22
        IF(FDCONT(J).EQ.0.)GOTO20
        GD=(FDCONT(J)/1000.)*SCALE
        WRITE(LP,18)J,FCOUNT(J),FPTS(J),FLINES(J),FDCONT(J),GD,AVE(J),SD(J
       1),SKEW(J),RKUR(J),FDMAX(J),FDMIN(J)
     18 FORMAT(3X,I3,F8.0,F9.0,F9.0,F13.1,F12.2,F7.1,F10.3,F10.4,F12.3,F11
       1.2,F11.2)
        GOTO22
     20 WRITE(LP,21)J,FCOUNT(J),FPTS(J)
     21 FORMAT(3X,I3,F8.0,F9.0)
     22 CONTINUE
        WRITE(LP,35)RLETT,RDIST
     35 FORMAT(////' A TOTAL NUMBER OF ',F8.0,' CHARACTERS EXIST',//,' TOT
       1AL DISTANCE OF -15 CODED LINES = ',F8.0,' GND. METRES',/)
        CMDIST=CDIST*100/SCALE
        TLINE=RLINE+RILINE
        WRITE(LP,45)RLINE,RILINE,TLINE,CDIST,CMDIST
     45 FORMAT(' TOTAL INKED IN LINES  = ',F10.0,//,' TOTAL INVISIBLE'
       1,' LINES = ',F10.0,//,' TOTAL LINES GENERATED =',
       21X,F10.0,//,' TOTAL DISTANCE GENERATED BY LINES = ',F15.2,' M'
       3,'ETRES AT GROUND SCALE',/,35X,'= ',F15.3,' CMS AT MAP SCALE')
        WRITE(LP,50)RECS,PTS
     50 FORMAT(//,' NUMBER OF RECORDS IN THE FILE = ',F15.0,//,' NUMBER ',
       1'OF POINTS IN THE FILE  = ',F15.0)
        WRITE(LP,54)RIGNOR,RECIG
     54 FORMAT(/,' NUMBER OF IGNORED CODES (0 OR >271)    = ',F10.0,//,
       1' NUMBER OF IGNORED RECORDS (0 OR >271)  = ',F10.0)
C
C
C------OUTPUT OF THE FEATURE CODE DESCRIPTIONS FOR THIS SHEET
C
C
        WRITE(LP,60)
     60 FORMAT(//,' FEATURE CODE DESCRIPTION ',/,1X,24('-'),//,
       1'  FEATURE   FEATURE',/,'    CODE      TYPE',20X,
       2' DESCRIPTION',/,1X,9('-'),1X,9('-'),17X,13('-'),//)
```

```
      IF(FCOUNT(I).EQ.0.)GOTO65
      READ(13'I,62)A
      WRITE(LP,63)A
   62 FORMAT(80A1)
   63 FORMAT(20A1,10X,60A1)
   65 CONTINUE
C
C------PRINT A LINE ACROSS  PAPER TO SIGNIFY END OF INFO
C
      WRITE(LP,70)
   70 FORMAT(//,120('-'),//)
      RETURN
      END
C
C
C
C
C
C
      SUBROUTINE INIT
C
C------INITIALISING PROGRAM FOR STATUS FILES
C
C------N.B. EVERYTHING SET TO EITHER A ZERO OR A BLANK AS APPROP.
C------ARRAY FDMIN IS SET TO A LUDICROUS HIGH VALUE (32767) SO
C------THAT THIS IS QUICKLY REPLACED BY THE CORRECT MIN VALUE
C
C
      REAL*8 R271D(271)
      DIMENSION R17(17),R40(40),R271(271),R271M(271)
      DATA BLANK/'    '/
      DO 1 I=1,17
    1 R17(I)=0.
      DO 2 I=1,40
    2 R40(I)=0.
      DO 3 I=1,271
      R271M(I)=32767.
      R271D(I)=0.0D0
    3 R271(I)=0.
      WRITE(10'1)R17
      DO 4 I=1,2
    4 WRITE(10'I+1)R271
      WRITE(10'4)R40
      DO 5 I=1,4
    5 WRITE(10'I+4)R271D
      DO 6 I=1,2
    6 WRITE(10'I+8)R271
      WRITE(10'11)R271M
      WRITE(10'12)R271
C
      DO 12 I=1,1000
      WRITE(11'I,10)BLANK,BLANK,BLANK
   10 FORMAT(3A4)
   12 CONTINUE
      I=1
      J=1
      WRITE(11'I,15)J
   15 FORMAT(I12)
      STOP 777
      END
C
C
C
C
C
C
      SUBROUTINE STORE
C
C
C------THIS IS A SUBROUTINE TO STORE ON DISK FILES 10, 11 AND 12
C------THE GENERATED ANALYSIS RESULTS.
C
C
      REAL*8 SUMX1(271),SUMX2(271),SUMX3(271),SUMX4(271)
      REAL*8 SX1(271),SX2(271),SX3(271),SX4(271)
      DIMENSION CCOUNT(17),FCOUNT(271),FDCONT(271)
      DIMENSION FLINES(271),
     1AVE(271),SD(271),SKEW(271),RKUR(271),FDMAX(271),FDMIN(271)
      DIMENSION FPTS(271)
      DIMENSION PREFIX(13,7),QUADR(2,2)
      DIMENSION C(17),F(271),FD(271),STAT(40)
      DIMENSION FLTOT(271)
      DIMENSION FP(271)
      DIMENSION RMAX(271), RMIN(271)
      DIMENSION NDATE(2)
      DATA PREFIX/'SV','SQ','SL','SF','SA','NV','NQ','NL','NF','NA','HV'
     1,'HQ','HL','SW','SR','SM','SG','SB','NW','NR','NM','NG','NB','HW',
     2'HR','HM','SX','SS','SN','SH','SC','NX','NS','NN','NH','NC','HX','
     3HS','HN','SY','ST','SO','SJ','SD','NY','NT','NO','NJ','ND','HY','H
     4T','HO','SZ','SU','SP','SK','SE','NZ','NU','NP','NK','NE','HZ','HU
     5','HP','TV','TQ','TL','TF','TA','OV','OQ','OL','OF','OA','JV','JQ'
     6,'JL','TW','TR','TM','TG','TB','OW','OR','OM','OG','OB','JW','JR',
     7'JM'/,QUADR/'SW','NW','SE','NE'/
      DATA BLANK/2H  /
      COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
      COMMON/TWO/CCOUNT,FCOUNT,FDCONT,RLETT,RLINE,RILINE,TLINE,
     1CMDIST,IPX1,IPY1,SCALE,IPX2,IPY2,IPX,IPY,RECS,PTS,RIGNOR,RECIG
      COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
     1FDMAX,FDMIN,FPTS
      NEXT=1
      LIMIT=271
C
C
      READ(10'1)C
      DO 1 I=1,17
    1 C(I)=C(I)+CCOUNT(I)
      WRITE(10'1)C
C
      READ(10'2)F
      DO 3 I=1,LIMIT
    3 F(I)=F(I)+FCOUNT(I)
      WRITE(10'2)F
C
      READ(10'3)FD
      DO 4 I=1,LIMIT
    4 FD(I)=FD(I)+FDCONT(I)
      WRITE(10'3)FD
C
C------THE ARRAY STAT CAN HOLD UP TO 40 PIECES OF INFO RELEVANT
```

```
      C
            READ(10'4)STAT
            STAT(1)=STAT(1)+RLETT
            STAT(2)=STAT(2)+RDIST
            STAT(3)=STAT(3)+RLINE
            STAT(4)=STAT(4)+RILINE
            STAT(5)=STAT(5)+TLINE
            STAT(6)=STAT(6)+CDIST
            STAT(7)=STAT(7)+CMDIST
            STAT(8)=STAT(8)+RECS
            STAT(9)=STAT(9)+PTS
            STAT(10)=STAT(10)+RIGNOR
            STAT(11)=STAT(11)+RECIG
            WRITE(10'4)STAT
      C
      C------READ HOW MANY SHEETS HAVE BEEN PROCESSED SO FAR
      C
            READ(11'1,7)INDIC
          7 FORMAT(I12)
      C
            READ(10'5)SX1
            DO 16 I=1,LIMIT
         16 SX1(I)=SX1(I)+SUMX1(I)
            WRITE(10'5)SX1
      C
            READ(10'6)SX2
            DO 17 I=1,LIMIT
         17 SX2(I)=SX2(I)+SUMX2(I)
            WRITE(10'6)SX2
      C
            READ(10'7)SX3
            DO 18 I=1,LIMIT
         18 SX3(I)=SX3(I)+SUMX3(I)
            WRITE(10'7)SX3
      C
            READ(10'8)SX4
            DO 19 I=1,LIMIT
         19 SX4(I)=SX4(I)+SUMX4(I)
            WRITE(10'8)SX4
      C
            READ(10'9)FLTOT
            DO 20 I=1,LIMIT
         20 FLTOT(I)=FLTOT(I)+FLINES(I)
            WRITE(10'9)FLTOT
      C
      C------HAVE WE A NEW MAX OR MIN DISTANCE FROM THIS SHEET WHICH
      C------WILL AFFECT THE STATUS RESULTS ?
      C
            READ(10'10)RMAX
            DO 23 I=1,LIMIT
            IF(FLINES(I).EQ.0.)GOTO23
            CALL FMSET(FDMAX(I),INDIC,RMAX(I),RMIN(I))
         23 CONTINUE
            WRITE(10'10)RMAX
      C
            READ(10'11)RMIN
            DO 25 I=1,LIMIT
            IF(FLINES(I).EQ.0.)GOTO25
            CALL FMSET(FDMIN(I),INDIC,RMAX(I),RMIN(I))
         25 CONTINUE
            WRITE(10'11)RMIN
      C
            READ(10'12)FP
            DO 28 I=1,LIMIT
         28 FP(I)=FP(I)+FPTS(I)
            WRITE(10'12)FP
      C
      C
      C------STORAGE TO DISK FILE 12 OF INDIVIDUAL SHEET INFO.
      C
      C
            IPOSN=(INDIC-1)*12
            WRITE(12'IPOSN+1)CCOUNT
            WRITE(12'IPOSN+2)FCOUNT
            WRITE(12'IPOSN+3)FDCONT
            DO 30 I=1,40
         30 STAT(I)=0.
            STAT(1)=RLETT
            STAT(2)=RDIST
            STAT(3)=RLINE
            STAT(4)=RILINE
            STAT(5)=TLINE
            STAT(6)=CDIST
            STAT(7)=CMDIST
            STAT(8)=RECS
            STAT(9)=PTS
            STAT(10)=RIGNOR
            STAT(11)=RECIG
            WRITE(12'IPOSN+4)STAT
            WRITE(12'IPOSN+5)AVE
            WRITE(12'IPOSN+6)SD
            WRITE(12'IPOSN+7)SKEW
            WRITE(12'IPOSN+8)RKUR
            WRITE(12'IPOSN+9)FLINES
            WRITE(12'IPOSN+10)FDMAX
            WRITE(12'IPOSN+11)FDMIN
            WRITE(12'IPOSN+12)FPTS
      C
      C
      C------INCLUSION OF THIS SHEET NAME TO THE INDEX FILE 11
      C------AND UPDATE OF THE NO. OF SHEETS PROCESSED
      C
      C------N.B. FILE 11 RECORD 1 IS I12 FORMAT AND STORES A NO.
      C------WHICH REPRESENTS THE NEXT FREE RECORD FOR INPUT
      C------OF DATA IN FILES 11 AND 12
      C
      C
      C
            INDIC=INDIC+1
            I=INDIC
            WRITE(11'1,7)INDIC
            IF(SCALE.EQ.1250)BLANK=QUADR(IPY2,IPX2)
            IF(SCALE.EQ.50000.)GOTO9
            WRITE(11'I,8)PREFIX(IPY,IPX),IPX1,IPY1,BLANK
          8 FORMAT(A2,1X,2I2,A2,3X)
            RETURN
          9 ISC=IFIX(SCALE)
            WRITE(11'I,10)ISC
         10 FORMAT(I9,3X)
```

```
      C
      C
      C
      C
      C
      C
            SUBROUTINE STATUS(WHAT)
      C
      C
      C------THIS IS A SUBROUTINE TO PULL OUT FROM DISK FILES 10 AND 11 THE
      C------CURRENT STATUS OF THE OS DATA STUDY --- THE OUTPUT GENERATED TAKES
      C------EXACTLY THE SAME FORMAT AS AN ANALYSIS RUN SINCE SUBROUTINE PRINT
      C------IS CALLED IN EXACTLY THE SAME WAY.
      C
      C----- IN ORDER TO RUN, THIS ROUTINE REQUIRES THE SCALE OF THE DATA ALREADY
      C------ANALYSED IN ORDER TO COMPUTE STATISTICS RELATING TO MAP SCALE MEASURES
      C
      C------THIS IS OBTAINED BY CALLING SCCHEQ (SCALE CHECK)
      C
      C
            REAL*8 SUMX1(271),SUMX2(271),SUMX3(271),SUMX4(271)
            DIMENSION CCOUNT(17),FCOUNT(271),FDCONT(271)
            DIMENSION STAT(40),A(7),B(7),C(7)
            DIMENSION FLINES(271),
           1AVE(271),SD(271),SKEW(271),RKUR(271),FDMAX(271),FDMIN(271)
            DIMENSION FPTS(271)
            DIMENSION NDATE(2)
            DATA YES/4HYES /
            COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
            COMMON/TWO/CCOUNT,FCOUNT,FDCONT,RLETT,RLINE,RILINE,TLINE,
           1CMDIST,IPX1,IPY1,SCALE,IPX2,IPY2,IPX,IPY,RECS,PTS,RIGNOR,RECIG
            COMMON/THREE/MAG,LP,ITT,MESS
            COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
           1FDMAX,FDMIN,FPTS
            NEXT=1
            LIMIT=271
      C******NOT USED NOW IN THIS MARK4 VERSION******
      C     WRITE(MESS,3)
      C   3 FORMAT(' GIVE THE SCALE OF THE FILE 10 (F6.0)')
      C     READ(ITT,4)SCALE
      C   4 FORMAT(F6.0)
      C
      C------DETERMINATION OF THE SCALE OF THESE SHEETS
      C
            CALL SCCHEQ(SCALE)
      C
      C------READ FROM FILE 10 THE STATUS OF THE STUDY SO FAR
      C
            READ(10'1)CCOUNT
            READ(10'2)FCOUNT
            READ(10'3)FDCONT
            READ(10'4)STAT
            RLETT=STAT(1)
            RDIST=STAT(2)
            RLINE=STAT(3)
            RILINE=STAT(4)
            TLINE=STAT(5)
            CDIST=STAT(6)
            CMDIST=STAT(7)
            RECS=STAT(8)
            PTS=STAT(9)
            RIGNOR=STAT(10)
            RECIG=STAT(11)
      C
      C------PRESENT A TITLE ON THE LP
      C
            READ(11'1,5)INDIC
          5 FORMAT(I12)
            IND=INDIC-1
            WRITE(LP,6)IND,SCALE
          6 FORMAT(1H1,'CURRENT STATUS OF THE O.S. DIGITAL DATA STATISTICS AFT
           1ER ',I4,' SHEET ANALYSES ON THE ',F8.0,' DATA',/,1X,97('='),
           2///)
      C
      C
            READ(10'5)SUMX1
            READ(10'6)SUMX2
            READ(10'7)SUMX3
            READ(10'8)SUMX4
            READ(10'9)FLINES
      C
      C------DETERMINATION OF THE GUASSIAN STATISTICS FOR THE
      C------STATUS RESULTS
      C
            DO 7 I=1,LIMIT
            IF(FLINES(I).EQ.0.)GOTO7
            CALL GUASS(FLINES(I),SUMX1(I),SUMX2(I),SUMX3(I),SUMX4(I),AVE(I),SD
           1(I),SKEW(I),RKUR(I),FCOUNT(I))
          7 CONTINUE
            READ(10'10)FDMAX
            READ(10'11)FDMIN
            READ(10'12)FPTS
      C
      C------OUTPUT OF RESULTS
      C
            CALL PRINT
            WRITE(MESS,8)
          8 FORMAT(//' DO YOU REQUIRE A LIST OF THE MAP SHEETS BEEN PROCESSED
           1?')
            READ(ITT,9)QN
          9 FORMAT(A4)
            IF(QN.EQ.YES)GOTO11
            WRITE(MESS,10)
         10 FORMAT(' NO MAP SHEET LIST REQUIRED',///,' JOB COMPLETED',////)
            GOTO20
         11 WRITE(LP,12)
         12 FORMAT(1H1,/,' CURRENT LIST OF MAP SHEETS BEEN PROCESSED',/,1X,41(
           1'='),////)
            IF(IND.LE.0)WRITE(LP,13)
            IF(IND.LE.0)GOTO20
         13 FORMAT(////,5X,' LIST EMPTY',////)
            P1=FLOAT(IND)/7.
            J=INT(P1)
            IF(J.EQ.0)GOTO18
            DO 17 I=1,J
            DO 14 K=1,7
         14 READ(11'((I-1)*7)+K+1,15)A(K),B(K),C(K)
```

```
      17 CONTINUE
      18 JJ=J*7
         J=IND-JJ
         IF(J.EQ.0)GOTO20
         DO 19 I=1,J
      19 READ(11'JJ+I+1,15)A(I),B(I),C(I)
         WRITE(LP,16)((A(K),B(K),C(K)),K=1,J)
C
C------STOP THE PROGRAM WITH A FINAL REMINDER OF THE NO. OF
C------SHEETS PROCESSED SO FAR AND GIVE A RECORD OF TODAYS
C------DATE
C
      20 CALL TIME(10,0,NDATE)
         WRITE(LP,21)IND,NDATE
      21 FORMAT(///,' A TOTAL OF ',I4,' MAP SHEETS HAVE BEEN PROCESSED',/
     1,1X,46('-'),////' END OF STATUS RUN ---  (',2A4,')',////)
         STOP 777
         END
C
C
C
C
C
         SUBROUTINE FMSET(D,INDEX,DMAX,DMIN)
C
C
C------THIS IS A SUBROUTINE TO DETERMINE THE MAXIMUM AND MINIMUM
C------VALUES OF A GIVEN SET
C
C------D IS THE VALUE
C------INDEX IS THE TEST COUNTER
C
C
         IF(INDEX-1)4,3,4
       3 DMAX=D
         DMIN=D
         RETURN
       4 IF(D-DMAX)6,6,5
       5 DMAX=D
       6 IF(D-DMIN)7,8,8
       7 DMIN=D
       8 RETURN
         END
C
C
C
C
C
         SUBROUTINE GUASS(RN,SX1,SX2,SX3,SX4,AV,SD,SK,RK,COUNT)
         REAL*8 SX1,SX2,SX3,SX4
C
C
C------THIS IS A SUBROUTINE TO COMPUTE MEAN, STANDARD DEVIATION, SKEWNESS
C------AND KURTOSIS OF A DITRIBUTION >3 VALUES
C
C------RN = NO. OF VALUE IN DISTBN.
C------SX1= SUM OF X VALUES
C------SX2= SUM OF X**2 VALUES
C------SX3= SUM OF X**3 VALUES
C------SX4= SUM OF X**4 VALUES
C------AV = RESULTANT MEAN
C------SD = STANDARD DEVIATION
C------SK = SKEW
C------RK = KURTOSIS
C
C------SEE PAGES 184+ OF THE SPSS MANUAL FOR FORMULAE IMPLEMENTED
C
C
C
         AV=0.
         SD=0.
         SK=0.
         RK=0.
C
C------SUPPRESS ALL IF NO. OF LINES <= 0
C
         IF(RN.LE.0.)GOTO100
         AV=SX1/RN
C
C------SUPPRESS ALL BUT THE MEAN IF NO. OF LINES <= 3
C
         IF(RN.LE.3.)GOTO100
         V=(SX2-(RN*AV*AV))/(RN-1.)
         SKA=((SX3-(3.*AV*SX2)+(3.*AV*AV*SX1))/RN)-(AV*AV*AV)
         IF(V.LT.0.)GOTO100
         SD=SQRT(V)
         SK=SKA/(SD*SD*SD)
         RKA=(SX4-(4.*AV*SX3)+(6.*AV*AV*SX2)-(4.*AV*AV*AV*SX1))/RN
         RKB=RKA+(AV*AV*AV*AV)
         RK=RKB/(V*V)
         RK=RK-3.
     100 RETURN
         END
C
C
C
C
C
C
         SUBROUTINE PULOUT
C
C
C------THIS IS A SUBROUTINE TO INTERFACE THE PROGRAM WITH THE
C------RANDOM ACCESS DISK FILE ON LOGICAL UNIT 12
C
C------IT ALLOWS THE RECOVERY OF DIGITAL DATA STATISTICS FOR EITHER
C------A NAMED MAP SHEET OR A MAP SHEET WHOSE STACK POSITION IS KNOWN
C
C------THE ROUTINE IS ENTIRELY INTERACTIVE AND ASKS QNS WHERE NECESSARY
C
C------IF A MAP SHEET OR LIST POSITION DOES NOT EXIST THE ROUTINE WILL
C------PROVIDE AN ERROR MESSAGE AND STOP
C
C
C
         REAL*8 SUMX1(271),SUMX2(271),SUMX3(271),SUMX4(271)
         DIMENSION CCOUNT(17),FCOUNT(271),FDCONT(271)
         DIMENSION FLINES(271),
```

```
      DIMENSION RNAME(3),SHEET(3)
      DIMENSION STAT(40)
      COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
      COMMON/TWO/CCOUNT,FCOUNT,FDCONT,RLETT,RLINE,RILINE,TLINE,
     1CMDIST,IPX1,IPY1,SCALE,IPX2,IPY2,IPX,IPY,RECS,PTS,RIGNOR,RECIG
      COMMON/THREE/MAG,LP,ITT,MESS
      COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
     1FDMAX,FDMIN,FPTS
      DATA YES/4HYES /
C
C------IS A RECOVERY FEASIBLE ?
C
      READ(11'1,5)INDIC
    5 FORMAT(I12)
      IF(INDIC.LE.1)STOP 999
C
C------DISCOVER WHETHER USER KNOWS STACK POSN. OR JUST THE
C------NAME OF THE SHEET HE WANTS RETRIEVING
C
      WRITE(MESS,10)
   10 FORMAT(' DO YOU KNOW THE LIST POSITION OF YOUR REQD. SHEET?')
      READ(ITT,20)QN
   20 FORMAT(A4)
      IF(QN.EQ.YES)GOTO70
C
C------SEARCH FOR REQ'D SHEET KNOWING ITS NAME ONLY
C
   25 WRITE(MESS,30)
   30 FORMAT(' OK -- GIVE THE SHEET NAME IN RIGID FORMAT (3A4)')
      READ(ITT,40)((SHEET(I)),I=1,3)
   40 FORMAT(3A4)
      IND=INDIC+1
      I=1
   50 I=I+1
      IF(I.GT.IND)GOTO60
      READ(11'I,40)(RNAME(I),I=1,3)
      IF(RNAME(1).EQ.SHEET(1).AND.RNAME(2).EQ.SHEET(2).AND.RNAME(3).EQ.S
     1HEET(3))GOTO90
      GOTO50
   60 WRITE(MESS,65)
   65 FORMAT(' NO SHEET OF THIS NAME HAS BEEN PROCESSED')
      GOTO 120
C
C------SEARCH FOR REQ'D SHEET KNOWING ITS STACK POSN.
C
   70 WRITE(MESS,75)
   75 FORMAT(' GIVE THE LIST POSITION (I5)')
      READ(ITT,80)LIST
   80 FORMAT(I5)
      IF(LIST.GE.INDIC)GOTO60
      IPOSN=LIST
      READ(11'LIST+1,40)(RNAME(I),I=1,3)
      GOTO100
   90 IPOSN=I-1
  100 IPOSN=(IPOSN-1)*12
      READ(12'IPOSN+1)CCOUNT
      READ(12'IPOSN+2)FCOUNT
      READ(12'IPOSN+3)FDCONT
      READ(12'IPOSN+4)STAT
      RLETT=STAT(1)
      RDIST=STAT(2)
      RLINE=STAT(3)
      RILINE=STAT(4)
      TLINE=STAT(5)
      CDIST=STAT(6)
      CMDIST=STAT(7)
      RECS=STAT(8)
      PTS=STAT(9)
      RIGNOR=STAT(10)
      RECIG=STAT(11)
      READ(12'IPOSN+5)AVE
      READ(12'IPOSN+6)SD
      READ(12'IPOSN+7)SKEW
      READ(12'IPOSN+8)RKUR
      READ(12'IPOSN+9)FLINES
      READ(12'IPOSN+10)FDMAX
      READ(12'IPOSN+11)FDMIN
      READ(12'IPOSN+12)FPTS
C
C
C******NOT USED IN THIS MARK4 VERSION*****
C
C
C     WRITE(MESS,105)
C 105 FORMAT(' GIVE THE SCALE OF FILE 12 (F6.0)')
C     READ(ITT,110)SCALE
C 110 FORMAT(F6.0)
C
C------DETERMINE THE SCALE OF THIS SHEET
C
      CALL SCCHEQ(SCALE)
C
C------PRESENT A TITLE THEN PRINT OUT RESULTS
C
      WRITE(LP,115)(RNAME(I),I=1,3)
  115 FORMAT(1H1,' RECOVERY OF STATISTICS GENERATED FOR OS SHEET ',3A4,
     1/,1X,58('='),//)
      CALL PRINT
  120 WRITE(MESS,121)
  121 FORMAT(' ANYMORE ?')
      READ(ITT,20)QN2
      IF(QN2.EQ.YES.AND.QN.EQ.YES)GOTO70
      IF(QN2.EQ.YES)GOTO25
      STOP 777
      END
C
C
C
C
C
      SUBROUTINE FEATCO
C
C------THIS IS A SUBROUTINE TO PRINT OUT A DESCRIPTION OF THE OS DIGITAL
C------FEATURE CODES -----  IT RUNS WITH THE OS DATA STUDY
C                           COMMAND 'DESCRIPTION'
C
C------THE INFORMATION IS STORED AS 80A1 IN DISK FILE 13 ---
C------AT NUMAC THIS IS GGK3:F13  ON DISK MTS 2
```

```
      DIMENSION A(80),IPOSN(20)
      COMMON/THREE/MAG,LP,ITT,MESS
      DATA ALL/4HALL /,SPEC/4HSPEC/
      LIMIT=271
C
C------DOES USER WANT ALL CODES DUMPED TO LP
C------OR JUST A SPECIFIC SELECTION (UP TO 20)
C------ON THE TERMINAL SCREEN ?
C
      WRITE(MESS,5)
    5 FORMAT(' SPECIFIC CODE (SPEC) OR ALL (ALL ) ?')
    6 READ(ITT,10)QN
   10 FORMAT(A4)
      IF(QN.EQ.SPEC)GOTO40
      IF(QN.EQ.ALL)GOTO20
      WRITE(MESS,12)
   12 FORMAT(' ERROR TYPE EITHER SPEC OR ALL')
      GOTO6
C
C------USER REQUIRES ALL THE CODES ON THE LP
C
   20 WRITE(LP,25)
   25 FORMAT(1H1,///,' O.S. DIGITAL MAPPING FEATURE CODE DESCRIPTION'
     1/,1X,46('='),//,'  FEATURE   FEATURE',/,'    CODE       TYPE',20X,
     2' DESCRIPTION',/,1X,9('-'),1X,9('-'),17X,13('-'),//)
      DO 30 I=1,LIMIT
      READ(13'I,28)A
   28 FORMAT(80A1)
   30 WRITE(LP,32)A
   32 FORMAT(20A1,10X,60A1/)
      WRITE(LP,35)
   35 FORMAT(///,' CORRECT ON 12 MAY 1978',//)
      STOP 777
C
C------USER ONLY REQUIRES A SPECIFIC SELECTION ON SCREEN
C
   40 WRITE(MESS,45)
   45 FORMAT(' HOW MANY SPECIFIC CODES ?  (I3)')
      READ(ITT,46)NUMB
   46 FORMAT(I3)
      IF(NUMB.EQ.0)STOP 111
      IF(NUMB.GT.20)WRITE(MESS,47)
   47 FORMAT(' TOO MANY -- 20 ASSUMED')
      IF(NUMB.GT.20)NUMB=20
      WRITE(MESS,48)
   48 FORMAT(' TYPE THEM IN ONE AT A TIME  -- (I3)')
      DO 50 J=1,NUMB
   50 READ(ITT,46)IPOSN(J)
      DO 55 J=1,NUMB
      READ(13'IPOSN(J),28)A
   55 WRITE(MESS,32)A
      STOP 777
      END
C
C
C
C
C
C
      SUBROUTINE SCCHEQ(SCALE)
C
C
C------THIS IS A SUBROUTINE TO DETERMINE FROM PREVIOUS INFO.
C------THE SCALE OF THE CURRENT DATA FILES BEING USED
C
C------AT PRESENT THE ROUTINE CAN DETECT SCALES OF:
C------      1 / 1250
C------      1 / 2500
C------      1 / 50000
C
C------IF THE ROUTINE CANNOT DISCOVER THE SCALE FROM INFO GIVEN
C------IT ASKS FOR USER INTERVENTION ON LOGICAL UNIT ATTACHED TO 'MESS'
C
C
C
      DIMENSION QUADR(4)
      DATA BL/'  '/,ZERO/'00'/,QUADR/'NE','SE','SW','NW'/
      COMMON/THREE/MAG,LP,ITT,MESS
      SCALE=0.
C
C------ROUTINE USES THE FIRST SHEET NAME (FILE 11 REC 2)
C------TO ACT AS A SEARCH TOOL FOR THE SCALE OF ENTIRE
C------FILE
C
      READ(11'2,10)S
   10 FORMAT(7X,A2,3X)
      IF(S.EQ.BL)SCALE=2500.
      IF(S.EQ.ZERO)SCALE=50000.
      DO 20 I=1,4
      IF(S.EQ.QUADR(I))SCALE=1250.
   20 CONTINUE
      IF(SCALE.GT.0.)RETURN
C
C------UNUSUAL SHEET NAME DETECTED -- ASK FOR ASSISTANCE
C
      WRITE(MESS,30)
   30 FORMAT(' TYPE IN THE SCALE OF THE MAP SHEETS  (F6.0)')
      READ(ITT,40)SCALE
   40 FORMAT(F6.0)
      RETURN
      END
C
C
C
C
C
C
      SUBROUTINE STRFY
C
C------THIS IS A SUBROUTINE TO GROUP SELECTED MAP SHEETS
C------TOGETHER WHICH CONSTITUTE THE VARIOUS STRATA OF
C------THE STRATIFIED SAMPLE NATURE OF THE DATABASE HELD
C------IN FILES 11 AND 12
C
C------IT PERFORMS EXACTLY THE SAME AS PULOUT EXCEPT THAT
C------IT ALLOWS THE GROUPING TOGETHER OF MORE THAN ONE
C------SHEET AT A TIME
C
```

```
      DIMENSION CCOUNT(17),FCOUNT(271),FDCONT(271)
      DIMENSION FLINES(271),
     1AVE(271),SD(271),SKEW(271),RKUR(271),FDMAX(271),FDMIN(271)
      DIMENSION FPTS(271)
      DIMENSION RNAME(3),SHEET(3)
      DIMENSION STAT(40),TITLE(50)
      DIMENSION SUMCC(17),SUMFC(271),SUMFD(271),SFL(271),RMAX(271),
     1RMIN(271),SFPTS(271),SSTAT(40)
      COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
      COMMON/TWO/CCOUNT,FCOUNT,FDCONT,RLETT,RLINE,RILINE,TLINE,
     1CMDIST,IPX1,IPY1,SCALE,IPX2,IPY2,IPX,IPY,RECS,PTS,RIGNOR,RECIG
      COMMON/THREE/MAG,LP,ITT,MESS
      COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
     1FDMAX,FDMIN,FPTS
C
C------IS A RECOVERY FEASIBLE ?
C
      READ(11'1,5)INDIC
    5 FORMAT(I12)
      IF(INDIC.LE.1)STOP 999
C
C------INITIALISATION OF THE ARRAYS TO HOLD THE SUMMED VARS
C
      DO 1 I=1,17
    1 SUMCC(I)=0.
      DO 2 I=1,271
      SUMFC(I)=0.
      SUMFD(I)=0.
      RMAX(I)=0.
      RMIN(I)=32767.
      SFL(I)=0.
    2 SFPTS(I)=0.
      DO 3 I=1,40
    3 SSTAT(I)=0.
      KOUNT=0.
C
C------INTRODUCTION OF THE SUBROUTINE ENTRY TO THE USER
C------AND INPUT OF A TITLE TO APPEAR AT THE TOP OF THE
C------GENERATED L.P. OUTPUT
C
      WRITE(MESS,6)
    6 FORMAT(/,' STRATIFICATION STATUS FOR SELECTED MAP SHEETS',//,
     1' GIVE A TITLE FOR THE RESULTANT OUTPUT (<=50 CHARS)')
      READ(ITT,7)(TITLE(I),I=1,50)
    7 FORMAT(50A1)
      WRITE(MESS,8)
    8 FORMAT(' OK... NOW',
     1' TYPE IN RIGID FORMAT (3A4) THE REQUIRED SHEETS ONE AT A TIME',
     2/,' THEN FINISH THE LIST WITH $ENDFILE')
C
C------INPUT OF REQUIRED SHEET NAME TO BE INCLUDED IN STRATA
C
   10 READ(ITT,20,END=150)(SHEET(I),I=1,3)
   20 FORMAT(3A4)
C
C------SEARCH FOR POSITION OF REQUIRED SHEET BY SCANNING
C------INDEX FILE 11
C
      IND=INDIC-1
      I=1
   50 I=I+1
      IF(I.GT.IND)GOTO60
      READ(11'I,20)(RNAME(I),I=1,3)
      IF(RNAME(1).EQ.SHEET(1).AND.RNAME(2).EQ.SHEET(2).AND.RNAME(3).EQ.S
     1HEET(3))GOTO90
      GOTO50
   60 WRITE(MESS,65)
   65 FORMAT(' NO SHEET OF THIS NAME CAN BE FOUND...NOT INCLUDED ',
     1/,' CONTINUE SUPPLYING SHEET NAMES ')
      GOTO10
C
C------KOUNT PROVIDES A COUNT OF THE NO. OF SHEETS INCLUDED
C------IN THIS STRATA
C
   90 KOUNT=KOUNT+1
C
C------RETRIEVAL FROM FILE 12 OF THE INFO FOR REQ'D SHEET
C
      IPOSN=I-1
      IPOSN=(IPOSN-1)*12
      READ(12'IPOSN+1)CCOUNT
      READ(12'IPOSN+2)FCOUNT
      READ(12'IPOSN+3)FDCONT
      READ(12'IPOSN+4)STAT
      READ(12'IPOSN+5)AVE
      READ(12'IPOSN+6)SD
      READ(12'IPOSN+7)SKEW
      READ(12'IPOSN+8)RKUR
      READ(12'IPOSN+9)FLINES
      READ(12'IPOSN+10)FDMAX
      READ(12'IPOSN+11)FDMIN
      READ(12'IPOSN+12)FPTS
C
C------DETERMINE THE SCALE OF THIS SHEET
C
      CALL SCCHEQ(SCALE)
C
C------SUM THE VALUES OF THIS SHEET INTO
C------ACCUMULATION ARRAYS
C
      DO 100 I=1,17
  100 SUMCC(I)=SUMCC(I)+CCOUNT(I)
      DO 110 I=1,40
  110 SSTAT(I)=SSTAT(I)+STAT(I)
      DO 120 I=1,271
      SFPTS(I)=SFPTS(I)+FPTS(I)
      SUMFC(I)=SUMFC(I)+FCOUNT(I)
      SFL(I)=SFL(I)+FLINES(I)
  120 SUMFD(I)=SUMFD(I)+FDCONT(I)
      DO 125 I=1,271
      IF(FLINES(I).EQ.0.0)GOTO125
      CALL FMSET(FDMAX(I),KOUNT+1,RMAX(I),RMIN(I))
  125 CONTINUE
      DO 130 I=1,271
      IF(FLINES(I).EQ.0.0)GOTO130
      CALL FMSET(FDMIN(I),KOUNT+1,RMAX(I),RMIN(I))
  130 CONTINUE
```

```
      C
      C------DETERMINATION OF AVERAGES TO ACT AS WEIGHTS FOR
      C------EACH STRATA TO ENABLE COMPARISON
      C
      C------COUNTS ARE NO LONGER ABSOLUTE BUT RATIOS
      C
  150 WRITE(MESS,151)KOUNT
  151 FORMAT(//,1X,I4,' SHEETS',/)
      IF(KOUNT.LE.0)STOP 888
      DO 160I=1,271
      IF(SFL(I).EQ.0.0)GOTO160
      AVE(I)=(SUMFD(I)*SCALE/1000.)/SFL(I)
  160 CONTINUE
      C
      C
      C
      DO 170 I=1,40
  170 SSTAT(I)=SSTAT(I)/FLOAT(KOUNT)
      RLETT=SSTAT(1)
      RDIST=SSTAT(2)
      RLINE=SSTAT(3)
      RILINE=SSTAT(4)
      TLINE=SSTAT(5)
      CDIST=SSTAT(6)
      CMDIST=SSTAT(7)
      RECS=SSTAT(8)
      PTS=SSTAT(9)
      RIGNOR=SSTAT(10)
      RECIG=SSTAT(11)
      DO 185 I=1,271
      FDMAX(I)=RMAX(I)
      FDMIN(I)=RMIN(I)
      FPTS(I)=SFPTS(I)/FLOAT(KOUNT)
      FCOUNT(I)=SUMFC(I)/FLOAT(KOUNT)
      FDCONT(I)=SUMFD(I)/FLOAT(KOUNT)
      FLINES(I)=SFL(I)/FLOAT(KOUNT)
      C
      C------SUPPRESSION OF 2ND 3RD AND 4TH MOMENTS
      C
      SD(I)=0.
      SKEW(I)=0.
      RKUR(I)=0.
  185 CONTINUE
      DO 186 I=1,17
  186 CCOUNT(I)=SUMCC(I)/FLOAT(KOUNT)
      C
      C------OUTPUT TO L.P.
      C
      WRITE(LP,200)KOUNT,SCALE
  200 FORMAT(1H1,/,' STRATIFICATION SELECTION OF ',I4,' SHEETS ',
     1'FROM THE ',F7.0,' DATA',/,62('='))
      WRITE(LP,205)(TITLE(I),I=1,50),KOUNT
  205 FORMAT(1X,50A1,//,' (NOTE:- ALL COUNTS ARE MEANED FOR THE ',
     1I4,' SHEETS)')
      C
      C------CALL OF NEW PRINT ROUTINE 'PRINT2' TO HANDLE
      C------RATIO NATURE OF THE DATA
      C
      CALL PRINT2

      WRITE(LP,210)
  210 FORMAT(//,' END OF STRATIFICATION RUN',///)
      STOP 111
      END
      C
      C
      C
      C
      C
      C
      SUBROUTINE PRINT2
      C
      C
      C------THIS IS A SPECIAL VERSION OF SUBROUTINE PRINT
      C------IT PERFORMS THE SAME FUNCTION AS 'PRINT' BUT HANDLES THE RATIO DATA
      C------WHICH IS PRODUCED DURING A STRATIFICATION RUN
      C
      C
      C
      C------THIS IS A SUBROUTINE TO GENERATE LINE PRINTER OUTPUT OF THE
      C------THE ANALYSIS RESULTS. IT EXECUTES DURING A
      C------STRATIFICATION RUN .
      C
      C
      C------RATIO DATA HANDLED BY TWO DEC PLACES IN OUTPUT VARS
      C
      C
      REAL*8 SUMX1(271),SUMX2(271),SUMX3(271),SUMX4(271)
      DIMENSION CCOUNT(17),FCOUNT(271),FDCONT(271)
      DIMENSION FLINES(271),
     1AVE(271),SD(271),SKEW(271),RKUR(271),FDMAX(271),FDMIN(271)
      DIMENSION FPTS(271)
      DIMENSION A(80)
      COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
      COMMON/TWO/CCOUNT,FCOUNT,FDCONT,RLETT,RLINE,RILINE,TLINE,
     1CMDIST,IPX1,IPY1,SCALE,IPX2,IPY2,IPX,IPY,RECS,PTS,RIGNOR,RECIG
      COMMON/THREE/MAG,LP,ITT,MESS
      COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
     1FDMAX,FDMIN,FPTS
      WRITE(LP,10)(I,CCOUNT(I),I=1,17)
   10 FORMAT(//,5X,'FREQUENCIES',/,5X,11('-'),///,I4,' START OF SHEET',9
     1X,F9.2,//,I4,' END OF SHEET',11X,F9.2,//,I4,' END OF FILE',12X,F9.
     22,//,I4,' START OF FEATURE',7X,F9.2,//,I4,' END OF FEATURE',9X,F9.
     32,//,I4,' NO ACTION (7 TRK)',6X,F9.2,//,I4,' FEATURES (LINE)',8X,F
     49.2,//,I4,' FEATURES (TEXT,SYMBOL)',1X,F9.2,//,I4,' GRID SQUARE IN
     5DICATOR',2X,F9.2,//,I4,' TEXT CLASSIFICATION',4X,F9.2,//,I4,' CHAR
     9ACTER CALLS ',7X,F9.2,//,I4,' NO OF ORIENTATIONS',5X,F9.2,//,I4,'
     7INVISIBLE LINE FLAG',4X,F9.2,//,I4,' N/A',20X,F9.2,//,I4,' DISTANC
     8E CALLS ',8X,F9.2,//,I4,' N/A',20X,F9.2,//,I4,' CONTOUR CALLS',10X
     9,F9.2,/////)
      WRITE(LP,15)
   15 FORMAT(1H1,/,21X,'FEATURES INCLUDED',/,21X,17('='),///)
      WRITE(LP,16)
   16 FORMAT(73X,'-------GROUND-------',5X,'--------GROUND--------')
      WRITE(LP,17)
   17 FORMAT(23X,'NO.',7X,'NO.',7X,'TOTAL LINE          GROUND          MEAN
     1      STANDARD',/,1X,'F/CODE     FREQ.          PTS       LINES       LEN
     2GTH (MM)       DIST (M)       DIST       DEVIATION       MAXIMUM
```

```
1562      C------SUPPRESSION OF INFO NOT RELEVANT TO CURRENT MAP SHEET
1563      C
1564            DO 22 J=1,271
1565            IF(FCOUNT(J).EQ.0.)GOTO22
1566            IF(FDCONT(J).EQ.0.)GOTO20
1567            GD=(FDCONT(J)/1000.)*SCALE
1568            WRITE(LP,18)J,FCOUNT(J),FPTS(J),FLINES(J),FDCONT(J),GD,AVE(J),FDMA
1569           1X(J),FDMIN(J)
1570         18 FORMAT(3X,I3,F10.2,F12.2,F12.2,F14.2,F14.2,F10.2,17X,F12.3,F13.3)
1571            GOTO22
1572         20 WRITE(LP,21)J,FCOUNT(J),FPTS(J)
1573         21 FORMAT(3X,I3,F10.2,F12.2)
1574         22 CONTINUE
1575            WRITE(LP,35)RLETT,RDIST
1576         35 FORMAT(////' A TOTAL NUMBER OF ',F10.2,' CHARACTERS EXIST',//,' TO
1577           1TAL DISTANCE OF -15 CODED LINES = ',F10.2,' GND. METRES',/)
1578            CMDIST=CDIST*100/SCALE
1579            TLINE=RLINE+RILINE
1580            WRITE(LP,45)RLINE,RILINE,TLINE,CDIST,CMDIST
1581         45 FORMAT(' TOTAL INKED IN LINES  = ',F12.2,//,' TOTAL INVISIBLE'
1582           1,' LINES = ',F12.2,//,' TOTAL LINES GENERATED =',
1583           21X,F12.2,//,' TOTAL DISTANCE GENERATED BY LINES = ',F15.2,' M'
1584           3,'ETRES AT GROUND SCALE',/,35X,'= ',F15.3,' CMS AT MAP SCALE')
1585            WRITE(LP,50)RECS,PTS
1586         50 FORMAT(//,' NUMBER OF RECORDS IN THE FILE = ',F17.2,//,' NUMBER ',
1587           1'OF POINTS IN THE FILE  = ',F17.2)
1588            WRITE(LP,54)RIGNOR,RECIG
1589         54 FORMAT(/,' NUMBER OF IGNORED CODES (0 OR >271)    = ',F12.2,//,
1590           1' NUMBER OF IGNORED RECORDS (0 OR >271)  = ',F12.2)
1591      C
1592      C
1593      C------OUTPUT OF THE FEATURE CODE DESCRIPTIONS FOR THIS SHEET
1594      C
1595      C
1596            WRITE(LP,60)
1597         60 FORMAT(//,' FEATURE CODE DESCRIPTION ',/,1X,24('-'),//,
1598           1'  FEATURE   FEATURE',/,'    CODE      TYPE',20X,
1599           2' DESCRIPTION',/,1X,9('-'),1X,9('-'),17X,13('-'),//)
1600            DO 65 I=1,271
1601            IF(FCOUNT(I).EQ.0.)GOTO65
1602            READ(13'I,62)A
1603            WRITE(LP,63)A
1604         62 FORMAT(80A1)
1605         63 FORMAT(20A1,10X,60A1)
1606         65 CONTINUE
1607      C
1608      C------PRINT A LINE ACROSS  PAPER TO SIGNIFY END OF INFO
1609      C
1610            WRITE(LP,70)
1611         70 FORMAT(//,120('-'),//)
1612            RETURN
1613            END
END OF FILE
```

```
 AAAAAAAAAA    NN          NN  NN          NN  EEEEEEEEEEEE  XX          XX          3333333333
AAAAAAAAAAAA   NNN         NN  NNN         NN  EEEEEEEEEEEE  XX          XX         333333333333
AA          AA NNNN        NN  NNNN        NN  EE             XX        XX         33          33
AA          AA NN NN       NN  NN NN       NN  EE              XX      XX                     33
AA          AA NN  NN      NN  NN  NN      NN  EE               XX    XX                      33
AAAAAAAAAAAA   NN   NN     NN  NN   NN     NN  EEEEEEEE          XXXX                  3333
AAAAAAAAAAAA   NN    NN    NN  NN    NN    NN  EEEEEEEE          XXXX                  3333
AA          AA NN     NN   NN  NN     NN   NN  EE               XX  XX                    33
AA          AA NN      NN  NN  NN      NN  NN  EE              XX    XX                   33
AA          AA NN       NNNN  NN       NNNN  EE             XX      XX         33          33
AA          AA NN        NNN  NN        NNN  EEEEEEEEEEEE  XX          XX        333333333333
AA          AA NN         NN  NN         NN  EEEEEEEEEEEE  XX          XX         3333333333
```

FREQUENCIES

1	START OF SHEET	1.
2	END OF SHEET	1.
3	END OF FILE	0.
4	START OF FEATURE	2100.
5	END OF FEATURE	2100.
6	NO ACTION (7 TRK)	0.
7	FEATURES (LINE)	1804.
8	FEATURES (TEXT,SYMBOL)	296.
9	GRID SQUARE INDICATOR	3266.
10	TEXT CLASSIFICATION	259.
11	CHARACTER CALLS	259.
12	NO OF ORIENTATIONS	1997.
13	INVISIBLE LINE FLAG	377.
14	N/A	0.
15	DISTANCE CALLS	0.
16	N/A	0.
17	CONTOUR CALLS	0.

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	SKEW	KURTOSIS	GROUND MAXIMUM	GROUND MINIMUM
1	19.	228.	209.	816.6	1020.79	4.9	5.559	2.4620	8.246	36.70	0.06
2	192.	673.	486.	1175.5	1470.69	3.0	2.018	2.2537	10.127	18.25	0.25
3	137.	1547.	1410.	5665.1	7081.32	5.0	5.569	4.9101	43.547	81.19	0.06
4	37.	133.	96.	216.6	270.81	2.8	4.637	4.5260	26.552	36.10	0.06
6	10.	20.	10.	59.6	74.51	7.5	1.796	0.3095	-1.164	10.35	5.07
12	3.	3.									
13	3.	3.									
15	6.	134.	128.	1659.3	2049.17	16.0	10.160	0.8367	1.917	57.57	0.73
17	1.	21.	20.	347.9	434.93	21.7	9.743	0.4007	1.309	48.77	2.45
20	1.	2.	1.	1.0	1.24	1.2	0.0	0.0	0.0	1.24	1.24
21	74.	1852.	1773.	4709.2	5886.48	3.3	7.674	7.7679	81.076	108.31	0.0
22	39.	794.	755.	3560.3	4450.43	5.9	10.121	6.3559	56.057	136.05	0.06
23	2.	55.	53.	71.8	89.80	1.7	1.094	1.1832	1.379	5.25	0.09
24	1.	1.									
25	0.	0.									
27	12.	12.									
28	259.	259.									
29	85.	1504.	1419.	5425.2	6781.55	4.8	6.919	5.0675	42.417	91.73	0.0
30	778.	3661.	2883.	10127.3	12659.18	4.4	6.319	3.7489	23.402	86.38	0.0
31	8.	55.	47.	90.4	112.97	2.4	3.278	3.7331	16.982	20.46	0.09
32	138.	2001.	1863.	3720.8	4650.95	2.5	3.651	5.2123	44.141	49.81	0.0
34	10.	23.	13.	78.5	98.09	7.5	3.717	-0.0602	-0.640	14.30	0.94
35	7.	65.	58.	160.6	200.81	3.5	5.983	5.2058	31.007	43.25	0.09
37	2.	2.									
52	254.	1200.	946.	1038.4	1297.97	1.4	0.805	3.3806	17.300	7.75	0.06
57	5.	5.									
64	1.	4.	3.	17.0	21.27	7.1	0.0	0.0	0.0	14.82	2.45
69	1.	1.									
70	1.	1.									
78	1.	99.	98.	493.6	617.04	6.3	16.819	5.4606	31.363	132.87	0.09
84	4.	417.	413.	376.3	470.38	1.1	0.732	1.3431	2.200	4.04	0.06

A TOTAL NUMBER OF 1816. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0. GND. METRES

TOTAL INKED IN LINES = 12312.

TOTAL INVISIBLE LINES = 377.

TOTAL LINES GENERATED = 12689.

TOTAL DISTANCE GENERATED BY LINES = 49719.37 METRES AT GROUND SCALE
= 3977.549 CMS AT MAP SCALE

NUMBER OF POINTS IN THE FILE = 1172.

NUMBER OF IGNORED CODES (0 OR >271) = 0.

NUMBER OF IGNORED RECORDS (0 OR >271) = 0.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	ARCHWAY SYMBOL
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
15	LINE	RAILWAY - STANDARD GUAGE
17	LINE	BOUNDARY - GENERAL
20	LINE	RAILWAY - SWITCH
21	LINE	ROAD PECKS (CARRIAGEWAY)
22	LINE	ROAD - CENTRE LINE
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
37	POINT	TELEPHONE CALL BOX - GPO
52	LINE	STEP TREADS
57	POINT	POINT FEATURES - DOT
64	LINE	SINGLE STREAM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
78	LINE	BOUNDARY - WARD
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)

FREQUENCIES

1	START OF SHEET	268.
2	END OF SHEET	268.
3	END OF FILE	0.
4	START OF FEATURE	384197.
5	END OF FEATURE	384196.
6	NO ACTION (7 TRK)	26859.
7	FEATURES (LINE)	313585.
8	FEATURES (TEXT,SYMBOL)	70612.
9	GRID SQUARE INDICATOR	623586.
10	TEXT CLASSIFICATION	59421.
11	CHARACTER CALLS	59421.
12	NO OF ORIENTATIONS	384136.
13	INVISIBLE LINE FLAG	13117.
14	N/A	0.
15	DISTANCE CALLS	39.
16	N/A	0.
17	CONTOUR CALLS	0.

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	SKEW	KURTOSIS	GROUND MAXIMUM	GROUND MINIMUM
1	1084.	17121.	16037.	72542.2	90302.69	5.7	7.261	2.9496	16.442	122.26	0.0
2	28553.	127611.	99058.	244124.7	305155.81	3.1	2.571	6.5897	174.756	126.58	0.0
3	49994.	464390.	414396.	1923975.0	2404969.00	5.8	7.145	5.5827	87.387	423.89	0.0
4	12707.	35984.	23277.	86144.2	107680.19	4.6	6.867	6.3914	70.923	159.69	0.0
5	149.	334.	186.	1295.4	1516.75	8.7	9.006	2.5930	8.809	50.22	0.14
6	1878.	3801.	1923.	14913.1	19641.36	9.7	6.367	9.2464	131.373	114.43	0.59
7	20.	849.	829.	3499.5	4374.42	5.5	7.475	6.3090	70.143	116.06	0.06
8	114.	4103.	3989.	16173.5	20216.88	5.1	6.410	4.2558	35.284	106.83	0.0
10	58.	2189.	2131.	15181.9	18977.32	8.9	15.448	4.5545	28.151	163.99	0.0
11	1.	1.									
12	187.	187.									
13	96.	96.									
14	16.	270.	254.	1300.7	1508.34	5.9	19.250	4.9425	24.042	127.26	0.0
15	3296.	44293.	40997.	366234.9	457793.56	11.2	18.658	11.1084	215.970	512.36	0.0
16	21.	120.	99.	693.3	856.56	8.8	7.227	0.8291	-0.227	29.97	0.09
17	1.	21.	20.	347.9	434.93	21.7	9.743	0.4007	1.309	48.77	2.45
18	2.	50.	48.	675.4	844.19	17.6	19.820	1.9470	2.940	87.55	0.14
19	24.	150.	126.	2916.4	3645.55	28.9	36.347	2.1861	5.633	209.05	0.63
20	1137.	2267.	1150.	1316.7	1645.82	1.4	0.275	4.5677	61.348	5.07	0.0
21	8963.	307654.	298691.	9920.3.4	12400385.00	4.2	8.337	6.3699	56.726	325.35	0.0
22	50.	1038.	988.	4408.1	5510.14	5.6	9.213	6.6021	53.771	136.05	0.06
23	142.	3669.	3527.	14744.7	18429.63	5.2	10.534	8.1195	94.039	201.38	0.0
24	2284.	2284.									
25	17.	17.									
26	1226.	1226.									
27	2740.	2740.									
28	59439.	59419.									
29	19038.	166691.	147653.	719302.0	899752.19	6.1	8.768	4.3786	40.113	214.87	0.0
30	144735.	505751.	361016.	2319261.0	2899076.00	8.0	8.723	3.1085	27.338	238.29	0.0
31	6763.	84670.	77907.	252525.3	315656.56	4.1	6.929	5.0236	49.551	203.59	0.0
32	17224.	179802.	162578.	578027.4	722534.13	4.4	7.717	7.8152	193.297	402.62	0.0
33	226.	1165.	939.	8762.1	10952.66	11.7	27.754	13.8819	225.309	504.51	0.0
34	362.	1056.	694.	5511.4	6889.30	9.9	8.925	1.5499	3.661	55.02	0.0
35	372.	10645.	10273.	22385.5	28606.83	2.8	4.907	7.7993	100.745	113.17	0.0
36	23.	912.	889.	1560.1	1950.15	2.2	3.730	4.7807	29.779	35.66	0.0
37	325.	325.									
44	1.	4.	3.	187.3	234.79	78.3	0.0	0.0	0.0	108.74	37.92
45	5.	67.	62.	97.0	122.42	2.0	3.830	2.6993	6.157	15.29	0.20
47	61.	197.	136.	9945.3	12431.65	91.4	75.676	1.2089	1.125	325.95	1.06
48	1.	1.									
49	39.	39.									
51	36.	36.									
52	8638.	36564.	27926.	32671.1	40838.85	1.5	1.289	9.6242	167.768	58.77	0.0
54	3.	3.									
55	6.	94.	88.	1469.7	1837.09	20.9	54.305	8.0312	69.227	505.74	0.46
57	3857.	3857.									
58	26.	26.									
		[illegible]	20973.	47329.6	59161.98	1.9	3.658	12.0034	309.905	174.35	0.0
							[illegible]	3.9426	25.112	119.29	0.0

65	235.	6060.	5825.	15120.2	20150.24	3.5	5.601	7.3319	107.407	132.47	0.0
66	89.	2364.	2285.	9603.1	12002.90	5.2	10.034	5.5336	48.263	152.32	0.0
67	2.	2.									
68	61.	61.									
69	132.	132.									
70	157.	157.									
71	84.	3668.	3584.	9226.6	11533.21	3.2	5.271	3.8585	23.958	73.55	0.0
72	10.	2133.	2123.	2661.6	3326.95	1.6	1.545	3.5247	24.944	19.30	0.0
78	129.	5434.	5305.	33383.9	42354.87	8.0	13.004	5.4615	45.021	185.08	0.0
79	2.	39.	37.	390.5	488.09	13.2	10.415	2.3763	5.600	90.80	0.14
80	37.	816.	779.	3585.4	4481.75	5.8	8.777	3.9147	22.941	90.07	0.05
81	76.	2362.	2286.	7736.9	9671.07	4.2	4.823	4.1420	48.764	89.88	0.0
83	2002.	16172.	14170.	61492.7	76865.88	5.4	7.430	3.2539	18.729	115.44	0.0
84	13.	798.	785.	825.0	1031.25	1.3	1.950	7.5393	72.046	24.74	0.0
85	9.	87.	78.	1240.7	1550.84	19.9	31.681	3.0469	10.774	138.96	0.13
86	6.	42.	36.	771.3	964.13	26.6	49.517	2.2455	4.300	210.77	1.09
88	5.	68.	63.	424.9	531.12	8.4	12.682	2.7401	7.106	58.17	1.13
89	88.	2180.	2092.	15350.0	19187.54	9.2	12.176	3.7679	21.813	140.97	0.0
90	164.	4646.	4482.	34177.1	42721.25	9.5	15.128	4.4343	27.800	182.60	0.0
91	11.	832.	821.	1530.0	1912.51	2.3	2.642	7.3158	82.983	42.82	0.0
92	12.	284.	272.	1444.5	1806.15	6.9	9.858	3.4868	14.528	60.91	0.14
93	118.	2557.	2439.	22278.7	27848.38	11.4	19.972	5.1247	41.779	307.53	0.0
94	5.	383.	378.	696.3	870.43	2.3	2.929	8.0492	79.021	35.24	0.0
95	7.	35.	28.	477.5	596.84	21.3	9.080	0.2256	-0.974	39.25	7.46
96	294.	6188.	5894.	52121.7	65152.11	11.1	18.263	4.3441	27.775	257.09	0.0
97	73.	1864.	1791.	9994.2	12492.73	7.0	12.128	5.6203	51.670	173.23	0.06
98	2340.	31476.	29136.	253724.3	317155.25	10.9	18.409	4.4809	32.159	287.54	0.0
99	8.	518.	510.	475.1	593.63	1.2	1.011	1.6935	2.405	5.76	0.06
100	115.	2405.	2290.	20510.9	25638.58	11.2	17.141	7.1040	84.848	318.44	0.0
101	22.	335.	311.	4934.8	6168.46	19.8	37.054	5.3671	42.351	409.22	0.28
102	215.	4393.	4178.	27270.7	34088.36	8.2	12.711	7.0626	73.173	189.60	0.0
103	147.	294.	147.	2411.1	3013.89	20.5	12.324	1.3197	1.963	68.30	2.07
104	1.	2.	1.	1.1	1.32	1.3	0.0	0.0	0.0	1.32	1.32
108	374.	5744.	5370.	12838.9	16111.09	3.0	5.152	4.0912	24.621	53.82	0.0
109	4.	8.	4.	4.9	6.10	1.5	0.324	0.6597	-1.755	2.00	1.30

A TOTAL NUMBER OF 337299. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 3411. GND. METRES

TOTAL INKED IN LINES = 1540201.

TOTAL INVISIBLE LINES = 13117.

TOTAL LINES GENERATED = 1053318.

TOTAL DISTANCE GENERATED BY LINES = 10533100.00 METRES AT GROUND SCALE
= 542647.938 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 5287610.

NUMBER OF POINTS IN THE FILE = 2237495.

NUMBER OF IGNORED CODES (0 OR >271) = 2245.

NUMBER OF IGNORED RECORDS (0 OR >271) = 73151.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	BUILDING DIVISION - BROKEN LINE
6	LINE	ARCHWAY SYMBOL
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
10	LINE	BOUNDARY - ELECTORAL DIVISION
11	POINT	BOUNDARY - POST OR STONE
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
14	LINE	RAILWAY - NARROW GUAGE
15	LINE	RAILWAY - STANDARD GUAGE
16	LINE	RAILWAY - UNDERGROUND
17	LINE	BOUNDARY - GENERAL
18	LINE	RAILWAY - DISUSED, CENTRE LINE
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
20	LINE	RAILWAY - SWITCH
21	LINE	ROAD PECKS (CARRIAGEWAY)
22	LINE	ROAD - CENTRE LINE
23	LINE	PATH (UN)
24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
33	LINE	TUNNEL ALIGNMENT
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
44	LINE	PIPE LINE - OBSTACLE
45	LINE	PIPE LINE - SUSPENDED OR NON OBSTACLE
47	LINE	ELECTRICITY TRANSMISSION LINE
48	POINT	ELECTRICITY PYLON - STANDARD
49	POINT	ELECTRICITY PYLON - SURVEYED
51	POINT	ELECTRICITY POSTS (SURVEYED)
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT

61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
67	POINT	FLOW ARROW - LARGE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
71	LINE	MEAN HIGH WATER (MHWS)
72	LINE	MEAN LOW WATER (MLWS)
78	LINE	BOUNDARY - YARD
79	LINE	BOUNDARY - PARLY CONST
80	LINE	CL - TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
85	LINE	CL MOTORWAY DUAL CARRIAGEWAY
86	LINE	CL MOTORWAY SINGLE CARRIAGEWAY
88	LINE	CL MOTORWAY SLIP ROAD
89	LINE	CL TRUNK/MAIN DUAL CARRIAGEWAY
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
91	LINE	CL TRUNK/MAIN ROUNDABOUT
92	LINE	CL SECONDARY DUAL CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
94	LINE	CL SECONDARY ROUNDABOUT
95	LINE	CL MINOR DUAL CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
99	LINE	CL MINOR ROUNDABOUT
100	LINE	CL RAILWAY - MULTIPLE TRACK
101	LINE	CL RAILWAY - SINGLE TRACK
102	LINE	CL RAILWAY - SIDINGS
103	LINE	ALIGNMENT FEATURE
104	LINE	NORMAL TIDAL HEIGHT
108	LINE	SURVEYED PECKS (BANKS ETC)
109	LINE	RAILWAY - BUFFERS / RETAPDERS

CURRENT LIST OF MAP SHEETS BEEN PROCESSED

NZ 2641NE	NZ 2642NE	SP 585NW	SP 585NE	SP 585SE	SP 585NW	SP 587SE
SP 588SW	SP 588SE	SP 588NW	SP 588NE	SP 685SW	SP 785SW	SP 785SE
SP 785NW	SP 785NE	SP 686SW	SP 686NW	SP 686NE	SP 786SW	SP 786SE
SP 786NW	SP 786NE	SP 687SW	SP 687SE	SP 687NW	SP 687NE	SP 787SW
SP 787SE	SP 787NW	SP 787NE	SP 688SW	SP 688SE	SP 688NW	SP 688NE
SP 788SW	SP 788SE	SP 788NW	SP 788NE	SP 885SE	SP 885NE	SP 985SW
TQ 6693SW	TQ 6693SE	TQ 6693NE	TQ 6793SW	TQ 6793SE	TQ 6793NW	TQ 6793NE
TQ 6694SW	TQ 6694NW	TQ 6694NE	TQ 6794SW	TQ 6794SE	TQ 6794NW	TQ 6794NE
TQ 6892SW	TQ 6892SE	TQ 6892NW	TQ 6892NE	TQ 6693NW	SK 22 3SW	SK 22 3SE
SK 22 3NE	SE 1830SW	SE 1830SE	SE 1830NE	SE 1930SW	SE 1930SE	SE 1930NW
SE 1930NE	SE 1831SW	SE 1831SE	SE 1831NW	SE 1831NE	SE 1931SW	SE 1931SE
SE 1931NW	SE 1931NE	SE 1832SW	SE 1832SE	SE 1832NW	SE 1832NE	SE 1932SW
SE 1932SE	SE 1932NW	SU 67 9SE	SU 67 9NE	SU 4012SW	SU 4012SE	SU 4012NW
SU 4112SW	SU 4013SW	SU 4014NW	SU 4212NW	SU 4213SW	SU 4213NE	SU 4313SE
SU 4313NW	SU 4313NE	SU 4214SW	SU 4314SW	SU 4314SE	SU 4314NW	SU 4314NE
SU 6711NE	SU 6812SE	NZ 2651SE	NZ 2651NW	NZ 2651NE	NZ 2751SW	NZ 2751SE
NZ 2751NW	NZ 2751NE	NZ 2652SW	NZ 2652SE	SP 985SE	SP 985NW	SP 985NE
SP 886SW	SP 886SE	SP 886NW	SP 886NE	SP 986SW	SP 986SE	SP 986NW
SP 887SW	SP 887SE	SP 887NW	SP 887NE	SP 987SW	SP 987NW	SP 988SW
SP 888SE	SP 888NW	SP 988SW	SP 988SE	SP 988NW	SP 988NE	NZ 2551SW
NZ 2551SE	NZ 2551NW	NZ 2551NE	NZ 2552SW	NZ 2552SE	NZ 2552NW	NZ 2552NE
NZ 2553SW	NZ 2553SE	NZ 2553NW	NZ 2553NE	NZ 2554SW	NZ 2554SE	NZ 2554NW
NZ 2554NE	NZ 2651SW	NZ 2652NE	NZ 2752SW	NZ 2752SE	NZ 2752NW	NZ 2752NE
NZ 2653SW	NZ 2653SE	NZ 2653NW	NZ 2653NE	NZ 2753SW	NZ 2753SE	NZ 2753NW
NZ 2753NE	NZ 2654SW	NZ 2654SE	NZ 2654NW	NZ 2654NE	NZ 2754SW	NZ 2754SE

SP 589SW	SP 589SE	SP 589NW	SP 589NE	SP 689SW	SP 689SE	SP 689NW
SP 689NE	SP 789SW	SP 789NW	SP 789NE	SP 889SW	SP 889NW	SP 889NE
SP 989SW	SP 989SE	SP 989NW	SP 989NE	SK 21 2SW	SK 22 2NW	SU 4113SW
SU 4113SE	SU 4113NW	SU 4113NE	SU 4014SW	SU 4014SE	SU 4014NE	SU 4114SW
SU 4114SE	SU 4114NW	SU 4114NE	SU 4212SW	SU 4212SE	SU 4212NE	SU 4312SW
SU 4312SE	SU 4312NW	SU 4312NE	SU 4313SW	SU 4313NE	SU 4214SE	SU 4214NW
SU 4214NE	SU 6711SW	SU 6711SE	SU 6512NE	SK 20 2SW	SK 20 2SE	SK 20 2NW
SK 20 2NE	SK 21 2SE	SK 21 2NW	SK 21 2NE	SK 20 3SW	SK 20 3SE	SK 20 3NW
SK 20 3NE	SK 21 3SW	SK 21 3SE	SK 21 3NW	SK 21 3NE	SK 20 4SW	SK 20 4SE
SK 20 4NW	SK 20 4NE	SK 21 4SW	SK 21 4SE	SK 21 4NW	SK 21 4NE	SK 22 2SW
SK 22 2SE	SK 22 2NE	SK 22 3NW	SK 22 4SW	SK 22 4SE	SK 22 4NW	SK 22 4NE
SU 6810SW	SP 8968SE					

A TOTAL OF 268 MAP SHEETS HAVE BEEN PROCESSED

END OF STATUS RUN --- (07-16-79)

STRATIFICATION SELECTION OF 47 SHEETS FROM THE 1000. DATA

AVERAGE DENSE URBAN / HILLY (CHESTER-LE-STREET)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 47 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	336.38
5	END OF FEATURE	336.38
6	NO ACTION (7 TRK)	92.32
7	FEATURES (LINE)	692.98
8	FEATURES (TEXT,SYMBOL)	143.40
9	GRID SQUARE INDICATOR	1441.38
10	TEXT CLASSIFICATION	120.34
11	CHARACTER CALLS	120.34
12	NO OF ORIENTATIONS	336.68
13	INVISIBLE LINE FLAG	17.23
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
1	1.04	16.66	15.62	81.90	102.38	5.56		42.350	0.0
2	67.13	303.36	236.23	700.01	875.01	3.70		54.159	0.0
3	106.13	953.72	847.60	4475.91	5594.88	6.60		236.498	0.0
4	10.04	26.87	16.83	76.63	95.79	5.69		80.443	0.0
5	0.02	0.06	0.04	0.16	0.19	4.57		5.883	3.255
6	1.23	2.55	1.32	8.75	10.94	8.29		45.085	1.405
7	0.36	15.13	14.77	61.03	76.28	5.17		116.056	0.063
8	0.81	41.15	40.34	129.27	161.58	4.01		89.199	0.063
10	0.09	15.00	14.91	31.51	39.39	2.64		61.506	0.0
12	1.49	1.49							
13	0.47	0.47							
14	0.02	1.30	1.28	2.73	3.41	2.67		43.965	0.451
15	4.30	50.47	46.17	788.77	985.96	21.35		505.229	0.0
16	0.04	0.09	0.04	0.75	0.94	22.02		22.381	21.660
19	0.15	1.53	1.36	23.24	35.30	25.52		110.350	0.625
20	0.36	0.72	0.36	0.42	0.53	1.45		1.668	1.288
21	33.02	1092.06	1059.04	3203.25	4004.06	3.78		168.251	0.0
23	1.28	33.66	32.38	133.23	166.54	5.14		143.546	0.0
24	0.06	0.06							
25	0.04	0.04							
26	1.53	1.53							
27	4.49	4.49							
28	120.51	120.32							
29	37.53	519.66	482.13	2162.39	2702.99	5.61		210.030	0.0
30	323.43	1207.72	884.30	5943.79	7429.73	8.40		232.172	0.0
31	10.21	133.51	123.30	458.73	573.41	4.65		113.454	0.0
32	66.17	750.66	684.49	2955.10	3693.88	5.40		402.624	0.0
33	0.57	1.19	0.62	4.33	5.41	8.78		16.300	3.527
34	0.28	0.91	0.64	2.87	3.59	5.62		21.762	0.946
35	3.70	103.17	90.47	235.83	294.79	2.96		87.474	0.0
36	0.04	0.55	0.51	1.04	1.30	2.55		6.481	0.280
37	0.40	0.40							
47	0.13	0.70	0.57	50.08	62.60	108.97		200.255	1.063
51	0.77	0.77							
52	17.83	46.72	28.89	36.42	45.52	1.58		8.633	0.088
54	0.02	0.02							
57	12.00	12.00							
58	0.40	0.40							
59	2.28	176.60	174.32	212.97	266.22	1.53		174.347	0.0
61	0.09	1.21	1.13	1.77	2.22	1.97		6.016	0.063
62	0.17	15.83	15.66	14.70	18.38	1.17		7.220	0.0
64	0.87	33.17	32.30	37.11	46.38	1.44		32.378	0.0
65	0.77	18.79	18.02	55.23	69.04	3.83		61.236	0.0
68	0.43	0.43							
69	0.45	0.45							
70	0.45	0.45							
78	0.11	15.47	15.36	36.03	46.03	3.00		58.872	0.0
80	0.17	3.17	3.00	15.87	19.83	6.61		61.863	0.063

98	0.11	4.62	4.51	19.49	24.36	5.40	25.523	0.063
103	0.30	0.60	0.30	3.19	3.99	13.39	23.521	5.498
108	0.15	0.62	0.47	1.72	2.14	4.59	16.905	0.760

A TOTAL NUMBER OF 656.08 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0.0 GND. METRES

TOTAL INKED IN LINES = 4908.96

TOTAL INVISIBLE LINES = 17.23

TOTAL LINES GENERATED = 4926.19

TOTAL DISTANCE GENERATED BY LINES = 27607.11 METRES AT GROUND SCALE
= 2208.568 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 12520.53

NUMBER OF POINTS IN THE FILE = 5762.38

NUMBER OF IGNORED CODES (0 OR >271) = 17.53

NUMBER OF IGNORED RECORDS (0 OR >271) = 504.60

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	BUILDING DIVISION - BROKEN LINE
6	LINE	ARCHWAY SYMBOL
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
10	LINE	BOUNDARY - ELECTORAL DIVISION
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
14	LINE	RAILWAY - NARROW GUAGE
15	LINE	RAILWAY - STANDARD GUAGE
16	LINE	RAILWAY - UNDERGROUND
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
20	LINE	RAILWAY - SWITCH
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
33	LINE	TUNNEL ALIGNMENT
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
47	LINE	ELECTRICITY TRANSMISSION LINE
51	POINT	ELECTRICITY POSTS (SURVEYED)
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
78	LINE	BOUNDARY - WARD
80	LINE	CL - TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
98	LINE	CL MINOR - OTHER ROADS
103	LINE	ALIGNMENT FEATURE
108	LINE	SURVEYED PECKS (BANKS ETC)

END OF STRATIFICATION RUN

STRATIFICATION SELECTION OF 65 SHEETS FROM THE 1250. DATA

DENSE URBAN / FLAT (BIRMINGHAM)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 65 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	1932.48
5	END OF FEATURE	1932.46
6	NO ACTION (7 TRK)	102.65
7	FEATURES (LINE)	1535.28
8	FEATURES (TEXT,SYMBOL)	397.20
9	GRID SQUARE INDICATOR	3043.11
10	TEXT CLASSIFICATION	335.18
11	CHARACTER CALLS	335.18
12	NO OF ORIENTATIONS	1932.69
13	INVISIBLE LINE FLAG	94.68
14	N/A	0.0
15	DISTANCE CALLS	0.12
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
1	7.58	130.18	122.60	502.57	628.22	5.12		62.737	0.0
2	73.91	324.62	250.71	530.29	662.86	2.64		90.226	0.0
3	235.62	2265.91	2030.29	9946.74	12433.42	6.12		423.895	0.0
4	75.26	237.00	161.74	625.07	781.34	4.83		159.688	0.0
5	1.63	3.75	2.12	15.96	19.95	9.40		59.223	0.140
6	18.09	25.55	18.46	140.47	196.84	10.12		114.430	1.338
8	0.02	0.09	0.08	1.02	1.27	16.57		25.001	13.188
10	0.32	2.54	2.22	81.88	102.35	11.11		143.753	0.0
12	0.34	0.34							
13	0.32	0.32							
14	0.06	0.85	0.78	1.84	2.29	2.92		25.430	0.063
15	16.46	204.75	188.29	1488.73	1860.91	9.88		217.778	0.0
16	0.22	1.58	1.37	8.36	10.45	7.53		29.974	0.088
19	0.18	0.66	0.48	19.10	23.87	50.06		209.047	2.809
20	5.91	11.86	5.95	6.79	8.49	1.43		3.109	0.850
21	45.15	1356.40	1311.25	5080.77	6350.95	4.84		325.361	0.0
24	11.77	11.77							
25	0.06	0.06							
26	8.48	8.48							
27	18.88	18.88							
28	335.29	335.17							
29	92.22	596.88	503.66	2840.09	3551.23	7.05		214.867	0.0
30	745.25	2404.52	1659.28	9981.71	12477.14	7.52		184.184	0.0
31	34.55	388.03	354.38	1356.87	1696.09	4.79		203.588	0.0
32	72.28	760.02	687.74	1958.42	2448.03	3.56		123.805	0.0
33	1.97	11.54	9.57	103.89	129.86	13.57		504.513	0.063
34	3.15	9.85	6.69	56.57	70.71	10.57		55.018	0.0
35	0.54	8.12	7.58	18.32	22.89	3.02		35.351	0.063
36	0.11	5.72	5.62	4.69	5.87	1.04		7.256	0.063
37	2.18	2.18							
45	0.05	0.97	0.92	1.14	1.43	1.54		15.290	0.198
47	0.08	0.15	0.08	9.80	12.24	159.17		276.583	87.843
49	0.12	0.12							
52	62.78	280.51	217.72	266.07	332.59	1.53		38.772	0.0
57	19.48	19.48							
58	0.02	0.02							
59	1.63	19.55	17.92	86.52	108.15	6.03		93.746	0.063
60	2.88	47.29	44.42	223.81	279.76	6.30		115.291	0.0
61	0.08	1.08	1.00	2.86	3.57	3.57		23.620	0.177
62	0.05	3.48	3.43	2.62	3.27	0.95		9.210	0.063
66	0.75	11.29	10.54	84.52	105.65	10.03		152.324	0.0
68	0.17	0.17							
69	0.22	0.22							
78	0.62	18.58	17.97	171.91	214.89	11.96		185.080	0.063
79	0.03	0.60	0.57	6.01	7.51	13.19		90.803	0.140
80	0.08	1.16	1.08	6.96	8.69	8.07		25.280	0.063
81	0.12	1.75	1.63	7.45	9.31	5.71		31.201	0.063
[illegible]	[illegible]	45.85	38.75	156.04	195.05	5.03		81.604	0.0
						1.12		3.229	0.063

88	0.08	1.05	0.97	5.56	8.17	1.43	[illegible]	[illegible]	
89	1.02	24.78	23.77	161.73	202.16	8.51	140.968	0.0	
90	1.48	40.68	39.20	273.27	341.59	8.71	182.600	0.0	
91	0.09	7.55	7.46	15.09	20.11	2.69	42.818	0.0	
92	0.17	4.17	4.00	19.38	24.22	6.06	56.633	0.140	
93	1.37	25.12	23.75	235.50	294.49	12.40	307.329	0.0	
94	0.03	2.85	2.82	5.41	6.77	2.40	35.241	0.0	
95	0.11	0.54	0.43	7.35	9.19	21.32	39.249	7.463	
96	2.17	55.91	33.74	385.05	481.31	14.27	253.093	0.0	
97	0.25	2.78	2.54	30.27	37.83	14.90	104.620	0.063	
98	15.89	189.92	174.03	1728.95	2161.19	12.42	287.545	0.0	
99	0.03	1.95	1.92	3.99	4.99	2.59	5.764	0.088	
100	0.94	13.94	13.00	127.44	159.29	12.25	262.945	0.063	
101	0.20	3.17	2.97	54.56	68.20	22.97	173.998	0.280	
102	0.97	17.09	16.12	122.96	153.70	9.53	153.826	0.063	
103	0.48	8.95	8.48	7.42	9.28	19.46	38.225	4.352	
104	2.83	55.80	52.97	110.61	138.27	2.61	46.269	0.0	

A TOTAL NUMBER OF 2050.75 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 11.03 GND. METRES

TOTAL INKED IN LINES = 8002.23

TOTAL INVISIBLE LINES = 94.68

TOTAL LINES GENERATED = 8096.91

TOTAL DISTANCE GENERATED BY LINES = 48903.32 METRES AT GROUND SCALE
= 3912.265 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 25377.69

NUMBER OF POINTS IN THE FILE = 10029.26

NUMBER OF IGNORED CODES (0 OR >271) = 3.69

NUMBER OF IGNORED RECORDS (0 OR >271) = 78.91

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	BUILDING DIVISION - BROKEN LINE
6	LINE	ARCHWAY SYMBOL
8	LINE	BOUNDARY - DISTRICT
10	LINE	BOUNDARY - ELECTORAL DIVISION
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
14	LINE	RAILWAY - NARROW GUAGE
15	LINE	RAILWAY - STANDARD GUAGE
16	LINE	RAILWAY - UNDERGROUND
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
20	LINE	RAILWAY - SWITCH
21	LINE	ROAD PECKS (CARRIAGEWAY)
24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
33	LINE	TUNNEL ALIGNMENT
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
45	LINE	PIPE LINE - SUSPENDED OR NON OBSTACLE
47	LINE	ELECTRICITY TRANSMISSION LINE
49	POINT	ELECTRICITY PYLON - SURVEYED
52	LINE	STEP TREADS
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
60	LINE	BANK OF CANAL
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
65	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
78	LINE	BOUNDARY - WARD
79	LINE	BOUNDARY - PARLY CONST
80	LINE	CL - TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
85	LINE	CL MOTORWAY DUAL CARRIAGEWAY
86	LINE	CL MOTORWAY SINGLE CARRIAGEWAY
88	LINE	CL MOTORWAY SLIP ROAD
89	LINE	CL TRUNK/MAIN DUAL CARRIAGEWAY
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
91	LINE	CL TRUNK/MAIN ROUNDABOUT
92	LINE	CL SECONDARY DUAL CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
94	LINE	CL SECONDARY ROUNDABOUT
95	LINE	CL MINOR DUAL CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
99	LINE	CL MINOR ROUNDABOUT
100	LINE	CL RAILWAY - MULTIPLE TRACK
101	LINE	CL RAILWAY - SINGLE TRACK

END OF STRATIFICATION RUN

STRATIFICATION SELECTION OF 35 SHEETS FROM THE 1250. DATA

AVERAGE DENSE URBAN / FLAT (TAMWORTH)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 35 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	1201.63
5	END OF FEATURE	1201.63
6	NO ACTION (7 TRK)	108.09
7	FEATURES (LINE)	1019.20
8	FEATURES (TEXT,SYMBOL)	182.43
9	GRID SQUARE INDICATOR	1952.29
10	TEXT CLASSIFICATION	157.06
11	CHARACTER CALLS	157.06
12	NO OF ORIENTATIONS	1202.11
13	INVISIBLE LINE FLAG	15.49
14	N/A	0.0
15	DISTANCE CALLS	0.23
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
1	1.77	26.86	25.09	164.17	205.21	8.18		45.486	0.125
2	115.00	473.54	360.54	1079.14	1348.92	3.74		126.575	0.0
3	157.69	1269.57	1111.80	5396.59	6745.74	6.07		152.271	0.0
4	56.69	130.94	74.25	207.59	259.48	3.49		103.492	0.088
6	2.51	5.17	2.66	14.70	18.38	6.92		18.449	0.590
7	0.09	3.94	3.86	18.04	22.54	5.84		32.731	0.063
8	0.31	15.34	15.03	85.68	107.10	7.13		54.780	0.063
10	0.29	12.11	11.83	68.48	85.60	7.24		103.544	0.0
11	0.03	0.03							
12	0.29	0.29							
13	0.51	0.51							
15	4.14	48.94	44.80	722.85	903.56	20.17		512.363	0.063
18	0.06	1.43	1.37	19.30	24.12	17.59		87.561	0.140
20	0.57	1.17	0.60	0.70	0.88	1.46		1.822	0.088
21	27.45	999.37	971.94	2945.19	3681.49	3.79		189.756	0.0
23	0.49	18.00	17.51	39.44	49.30	2.81		32.227	0.0
24	1.06	1.06							
25	0.03	0.03							
26	1.34	1.34							
27	3.89	3.89							
28	157.09	157.06							
29	40.03	356.60	316.57	1586.22	1982.78	6.26		153.609	0.0
30	471.03	1751.00	1279.97	8301.59	10376.74	8.11		233.847	0.0
31	18.34	251.46	233.11	729.97	912.46	3.91		87.082	0.0
32	82.60	820.51	743.91	2835.32	3544.15	4.76		227.486	0.0
33	0.77	1.66	0.89	6.45	8.07	9.11		15.409	1.132
34	1.60	3.26	1.66	14.62	18.28	11.03		22.577	0.877
35	1.40	61.94	60.54	126.22	157.78	2.61		85.819	0.0
37	0.63	0.63							
47	0.37	1.14	0.77	47.92	59.90	77.65		319.249	3.213
49	0.23	0.23							
52	19.17	54.57	35.40	41.57	51.96	1.47		3.356	0.0
54	0.03	0.03							
55	0.09	2.26	2.17	22.65	28.31	13.04		63.066	0.455
57	16.11	16.11							
58	0.03	0.03							
59	2.77	269.00	266.83	367.71	459.64	1.72		52.556	0.0
60	1.14	57.03	55.89	175.47	219.33	3.92		73.601	0.0
61	2.49	164.06	161.57	375.99	469.99	2.91		56.998	0.0
62	0.51	27.51	27.00	45.37	56.72	2.10		29.541	0.0
65	1.83	62.31	60.49	134.00	167.50	2.77		126.083	0.0
66	0.11	5.97	5.86	21.49	26.86	4.59		48.884	0.088
67	0.06	0.06							
68	0.43	0.43							
69	0.29	0.29							
70	0.43	0.43							
78	0.20	22.80	22.60	56.15	70.19	3.11		43.060	0.0
80	0.03	1.03	1.00	3.05	3.82	3.82		16.899	0.063
81	0.09	7.29	7.20	17.60	22.00	3.06		17.226	0.063
83	4.54	36.11	31.57	134.88	168.60	5.34		48.490	0.063
90	0.03	0.89	0.86	11.57	14.47	16.88		79.103	0.940
92	0.03	0.37	0.34	6.71	8.39	24.48		60.914	9.197
93	0.06	1.97	1.91	15.73	19.66	10.27		39.815	0.198
94	0.06	4.23	4.17	8.15	10.19	2.44		18.223	0.140
96	0.11	2.71	2.60	23.59	29.49	11.34		100.343	0.063
97	0.57	8.86	8.29	55.25	69.06	8.34		111.762	0.125
98	3.17	51.43	48.26	286.11	357.64	7.41		178.386	0.0
99	0.03	4.54	4.51	1.59	1.99	0.44		0.578	0.337
103	0.03	0.06	0.03	0.30	0.38	13.34		13.341	13.341
108	0.94	16.97	16.03	48.37	60.47	3.77		36.122	0.063

A TOTAL NUMBER OF 818.43 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 14.86 GND. METRES

TOTAL INKED IN LINES = 6627.88

TOTAL INVISIBLE LINES = 15.49

TOTAL LINES GENERATED = 6043.37

TOTAL DISTANCE GENERATED BY LINES = 32820.43 METRES AT GROUND SCALE
= 2625.634 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 16635.83

NUMBER OF POINTS IN THE FILE = 7244.97

NUMBER OF IGNORED CODES (0 OR >271) = 17.26

NUMBER OF IGNORED RECORDS (0 OR >271) = 533.29

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	ARCHWAY SYMBOL
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
10	LINE	BOUNDARY - ELECTORAL DIVISION
11	POINT	BOUNDARY - POST OR STONE
12	POINT	BOUNDARY - MERGING SYMBOL FULL
13	POINT	BOUNDARY - MERGING SYMBOL HALF
15	LINE	RAILWAY - STANDARD GUAGE
18	LINE	RAILWAY - DISUSED, CENTRE LINE

24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
33	LINE	TUNNEL ALIGNMENT
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
37	POINT	TELEPHONE CALL BOX - GPO
47	LINE	ELECTRICITY TRANSMISSION LINE
49	POINT	ELECTRICITY PYLON - SURVEYED
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
60	LINE	BANK OF CANAL
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
67	POINT	FLOW ARROW - LARGE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
78	LINE	BOUNDARY - WARD
80	LINE	CL - TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
92	LINE	CL SECONDARY DUAL CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
94	LINE	CL SECONDARY ROUNDABOUT
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
99	LINE	CL MINOR ROUNDABOUT
103	LINE	ALIGNMENT FEATURE
108	LINE	SURVEYED PECKS (BANKS ETC)

END OF STRATIFICATION RUN

STRATIFICATION SELECTION OF 46 SHEETS FROM THE 1250. DATA

DENSE URBAN / HILLY (SOUTHAMPTON)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 46 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	1794.67
5	END OF FEATURE	1794.67
6	NO ACTION (7 TPK)	84.83
7	FEATURES (LINE)	1459.24
8	FEATURES (TEXT,SYMBOL)	335.43
9	GRID SQUARE INDICATOR	2883.26
10	TEXT CLASSIFICATION	272.07
11	CHARACTER CALLS	272.07
12	NO OF ORIENTATIONS	1794.76
13	INVISIBLE LINE FLAG	54.91
14	N/A	0.0
15	DISTANCE CALLS	0.11
16	N/A	0.0
17	CONTOUR CALLS	0.0

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
1	6.04	84.61	78.57	379.88	474.85	6.04		122.259	0.0
2	195.07	872.13	678.07	1507.82	1884.77	2.78		50.280	0.0
3	278.04	2583.70	2305.65	9477.38	11846.71	5.14		189.790	0.0
4	58.17	163.43	105.26	403.25	504.07	4.79		100.359	0.0
5	0.22	0.54	0.33	1.63	2.04	6.25		21.506	0.868
6	4.00	5.17	4.17	29.57	36.96	8.86		21.916	1.707
10	0.30	4.83	4.52	76.12	95.15	21.04		163.989	0.063
12	0.26	0.23							
13	0.13	0.13							
14	0.24	3.35	3.11	20.85	26.06	8.38		127.263	0.0
15	13.26	151.67	148.39	1288.65	1610.81	10.86		139.698	0.0
20	4.02	8.22	4.20	4.63	5.79	1.38		2.748	0.0
21	31.61	968.20	936.59	4034.77	5043.45	5.38		198.419	0.0
23	0.13	1.39	1.26	6.44	8.05	6.39		22.400	0.699
24	22.17	22.17							
25	0.11	0.11							
26	6.07	6.07							
27	12.07	12.07							
28	272.11	272.07							
29	64.76	691.74	626.98	3214.44	4018.05	6.41		120.876	0.0
30	667.91	2167.20	1499.28	11761.48	14701.85	9.81		148.691	0.0
31	19.61	200.67	181.07	565.86	707.32	3.91		100.598	0.0
32	54.67	668.74	614.07	2014.31	2517.89	4.10		133.526	0.0
33	0.22	2.54	2.33	17.52	21.91	9.42		286.281	0.0
34	0.57	1.59	1.02	7.97	9.96	9.75		23.230	0.088
35	0.65	14.30	13.65	27.37	34.21	2.51		21.021	0.0
37	1.91	1.91							
44	0.02	0.09	0.07	4.08	5.10	78.26		108.744	37.923
47	0.15	0.63	0.48	19.69	24.62	51.47		95.573	4.819
49	0.11	0.11							
52	28.43	135.52	107.09	115.32	144.15	1.35		20.001	0.063
54	0.02	0.02							
57	18.54	18.54							
58	0.02	0.02							
59	1.96	163.93	161.98	199.58	249.47	1.54		117.009	0.0
61	0.28	13.67	13.39	18.86	23.57	1.76		23.300	0.0
62	0.63	30.61	29.98	40.51	50.64	1.69		24.736	0.0
64	1.11	21.04	19.93	42.20	52.75	2.65		56.506	0.0
65	1.46	26.41	24.96	83.71	104.64	4.19		63.454	0.0
68	0.02	0.02							
69	0.83	0.83							
70	1.09	1.09							
71	1.50	74.15	72.65	188.12	235.14	3.24		73.551	0.0
72	0.22	46.37	46.15	57.86	72.33	1.57		19.300	0.0
78	0.89	29.41	28.52	237.41	296.76	10.40		171.949	0.0
80	0.07	0.72	0.65	3.89	4.87	7.46		31.314	0.063
81	0.17	1.72	1.54	5.07	6.34	4.11		19.975	0.063
83	5.65	43.54	37.89	149.52	186.90	4.93		93.885	0.0
89	0.22	6.83	6.61	61.24	76.55	11.58		69.001	0.063
90	0.78	24.59	23.80	189.43	236.78	9.95		166.695	0.0
91	0.02	0.78	0.76	2.24	2.80	3.68		15.875	0.504
93	0.09	1.65	1.57	15.54	19.55	12.49		111.169	0.753
96	1.33	31.30	29.98	231.05	238.81	9.63		188.467	0.063
97	0.39	17.00	16.61	44.02	55.03	3.31		46.402	0.088
98	10.13	142.15	132.02	1296.27	1620.34	12.27		287.403	0.0
99	0.09	4.15	4.07	2.91	3.63	0.89		1.822	0.063
100	0.35	7.28	6.93	93.21	116.52	16.80		195.728	0.0
101	0.04	0.17	0.13	9.09	11.36	87.11		409.216	5.144
102	1.11	23.65	22.54	153.53	191.92	8.51		88.414	0.0
103	0.26	0.52	0.26	2.29	2.86	10.96		30.911	3.310
104	0.02	0.04	0.02	0.02	0.03	1.32		1.318	1.318
108	2.24	24.52	22.28	61.55	76.94	3.45		63.821	0.063
109	0.07	0.13	0.07	0.07	0.09	1.37		1.458	1.301

A TOTAL NUMBER OF 1454.67 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 10.93 GND. METRES

TOTAL INKED IN LINES = 7966.52

TOTAL INVISIBLE LINES = 54.91

TOTAL LINES GENERATED = 8021.43

TOTAL DISTANCE GENERATED BY LINES = 47696.09 METRES AT GROUND SCALE
= 3815.686 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 23966.17

NUMBER OF POINTS IN THE FILE = 9816.06

NUMBER OF IGNORED CODES (0 OR >271) = 0.00

NUMBER OF IGNORED RECORDS (0 OR >271) = 174.48

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	BUILDING DIVISION - BROKEN LINE
6	LINE	ARCHWAY SYMBOL
10	LINE	BOUNDARY - ELECTORAL DIVISION
12	POINT	BOUNDARY - MERGING SYMBOL FULL
13	POINT	BOUNDARY - MERGING SYMBOL HALF
14	LINE	RAILWAY - NARROW GUAGE

24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
33	LINE	TUNNEL ALIGNMENT
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
37	POINT	TELEPHONE CALL BOX - GPO
44	LINE	PIPE LINE - OBSTACLE
47	LINE	ELECTRICITY TRANSMISSION LINE
49	POINT	ELECTRICITY PYLON - SURVEYED
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT B42
71	LINE	MEAN HIGH WATER (MHWS)
72	LINE	MEAN LOW WATER (MLWS)
78	LINE	BOUNDARY - WARD
80	LINE	CL - TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
89	LINE	CL TRUNK/MAIN DUAL CARRIAGEWAY
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
91	LINE	CL TRUNK/MAIN ROUNDABOUT
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
99	LINE	CL MINOR ROUNDABOUT
100	LINE	CL RAILWAY - MULTIPLE TRACK
101	LINE	CL RAILWAY - SINGLE TRACK
102	LINE	CL RAILWAY - SIDINGS
103	LINE	ALIGNMENT FEATURE
104	LINE	NORMAL TIDAL HEIGHT
108	LINE	SURVEYED PECKS (BANKS ETC)
109	LINE	RAILWAY - BUFFERS / RETARDERS

END OF STRATIFICATION RUN

LIGHT DENSE URBAN / HILLY (BRADFORD)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 22 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	1353.45
5	END OF FEATURE	1353.45
6	NO ACTION (7 TRK)	124.77
7	FEATURES (LINE)	1109.59
8	FEATURES (TEXT,SYMBOL)	243.86
9	GRID SQUARE INDICATOR	2185.45
10	TEXT CLASSIFICATION	217.77
11	CHARACTER CALLS	217.77
12	NO OF ORIENTATIONS	1353.73
13	INVISIBLE LINE FLAG	50.73
14	N/A	0.0
15	DISTANCE CALLS	0.32
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (M)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
1	1.77	20.18	18.41	102.13	127.66	6.93		62.349	0.088
2	72.36	314.77	242.41	633.21	791.51	3.27		33.970	0.0
3	156.82	1152.23	996.41	5985.64	7483.30	7.51		182.625	0.0
4	33.55	55.27	51.73	166.39	207.87	4.02		48.858	0.225
5	0.68	1.36	0.68	1.99	2.46	3.60		9.478	1.838
6	9.05	18.23	9.18	72.35	90.44	9.85		15.265	2.211
8	0.27	14.82	14.55	82.68	103.34	7.10		37.892	0.0
10	0.09	1.55	1.45	25.93	32.41	22.28		93.137	0.628
12	0.77	0.77							
13	0.27	0.27							
15	9.82	118.27	108.45	900.43	1125.53	10.38		156.641	0.063
19	0.23	1.59	1.36	15.81	19.76	14.49		30.216	3.438
20	2.55	5.09	2.55	3.03	3.79	1.49		1.761	1.168
21	33.64	1058.36	1024.73	3296.55	4120.78	4.02		125.073	0.0
23	1.14	14.23	13.09	87.36	109.23	8.34		57.464	0.125
24	4.77	4.77							
25	0.14	0.14							
26	3.59	3.59							
27	8.50	8.50							
28	217.77	217.77							
29	56.95	490.14	433.18	2200.03	2750.03	6.35		132.231	0.0
30	525.32	1826.91	1301.59	7870.99	9838.73	7.56		238.290	0.0
31	46.27	590.18	543.91	1752.03	2190.04	4.03		121.926	0.0
32	87.68	812.36	724.68	2389.19	2987.73	5.69		154.567	0.0
34	0.59	2.05	1.45	8.52	10.65	7.32		14.604	0.364
35	0.68	21.27	20.59	62.94	78.68	3.82		96.470	0.063
38	0.59	18.68	18.09	49.70	62.13	3.43		35.663	0.0
37	0.73	0.73							
47	0.55	2.00	1.45	75.25	94.07	64.67		233.748	2.188
48	0.05	0.05							
49	0.32	0.32							
52	23.73	111.05	87.32	99.23	124.04	1.42		15.554	0.063
57	6.55	6.55							
58	0.05	0.05							
59	0.68	52.59	51.91	46.64	58.30	1.12		18.814	0.0
61	0.27	0.64	0.36	2.01	2.51	6.91		8.702	1.174
62	0.59	11.59	11.00	30.60	38.25	3.46		49.823	0.0
64	0.45	22.00	21.55	25.27	31.58	1.47		33.709	0.0
65	0.41	5.73	5.32	15.01	18.77	3.53		19.680	0.063
66	0.23	17.00	16.77	17.11	21.39	1.28		14.605	0.063
68	0.05	0.05							
69	0.32	0.32							
78	0.36	8.18	7.82	80.08	100.11	12.80		54.828	0.395
80	0.32	6.91	6.59	32.08	40.09	6.08		90.070	0.140
81	0.64	16.41	15.77	58.95	73.69	4.67		89.381	0.063
83	21.86	179.82	157.95	802.65	1003.29	6.35		100.123	0.0
84	0.27	13.32	13.05	14.37	17.96	1.38		24.738	0.0
89	0.09	2.14	2.05	21.38	26.73	13.07		27.492	3.001

97	0.32	9.73	9.41	52.19	77.02	[illegible]	[illegible]	[illegible]
98	16.09	186.27	170.18	1359.86	1699.82	9.99	225.971	[illegible]
100	0.50	5.86	5.36	69.78	87.23	16.26	135.087	0.576
101	0.27	2.09	1.82	33.07	41.33	22.73	191.783	1.439
102	0.09	0.77	0.68	2.85	3.57	5.23	14.790	0.258
103	0.23	0.45	0.23	4.64	5.81	25.54	46.791	11.985
108	0.05	0.09	0.05	0.11	0.14	2.99	2.991	2.991

A TOTAL NUMBER OF 1165.36 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 15.64 GND. METRES

TOTAL INKED IN LINES = 5903.86

TOTAL INVISIBLE LINES = 50.73

TOTAL LINES GENERATED = 5954.59

TOTAL DISTANCE GENERATED BY LINES = 36192.91 METRES AT GROUND SCALE
= 2895.432 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 18065.77

NUMBER OF POINTS IN THE FILE = 7308.04

NUMBER OF IGNORED CODES (0 OR >271) = 3.32

NUMBER OF IGNORED RECORDS (0 OR >271) = 112.73

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	BUILDING DIVISION - BROKEN LINE
6	LINE	ARCHWAY SYMBOL
8	LINE	BOUNDARY - DISTRICT
10	LINE	BOUNDARY - ELECTORAL DIVISION
12	POINT	BOUNDARY - MERGING SYMBOL FULL
13	POINT	BOUNDARY - MERGING SYMBOL HALF
15	LINE	RAILWAY - STANDARD GUAGE
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
20	LINE	RAILWAY - SWITCH
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
47	LINE	ELECTRICITY TRANSMISSION LINE
48	POINT	ELECTRICITY PYLON - STANDARD
49	POINT	ELECTRICITY PYLON - SURVEYED
52	LINE	STEP TREADS
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
78	LINE	BOUNDARY - WARD
80	LINE	CL - TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
89	LINE	CL TRUNK/MAIN DUAL CARRIAGEWAY
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
100	LINE	CL RAILWAY - MULTIPLE TRACK
101	LINE	CL RAILWAY - SINGLE TRACK
102	LINE	CL RAILWAY - SIDINGS
103	LINE	ALIGNMENT FEATURE
108	LINE	SURVEYED PECKS (BANKS ETC)

END OF STRATIFICATION RUN

STRATIFICATION SELECTION OF [illegible] SHEETS FROM THE [illegible] DATA

LIGHT DENSE URBAN / FLAT (BILLERICAY, ESSEX)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 19 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	773.16
5	END OF FEATURE	773.16
6	NO ACTION (7 TRK)	108.53
7	FEATURES (LINE)	550.53
8	FEATURES (TEXT,SYMBOL)	122.63
9	GRID SQUARE INDICATOR	1355.21
10	TEXT CLASSIFICATION	110.21
11	CHARACTER CALLS	110.21
12	NO OF ORIENTATIONS	773.16
13	INVISIBLE LINE FLAG	14.26
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
1	2.37	28.42	26.05	155.84	194.80	7.48		64.143	0.063
2	70.53	312.63	242.11	780.58	975.73	4.03		22.780	0.063
3	135.05	1000.21	925.16	4352.41	5441.75	5.88		67.701	0.0
4	20.84	57.21	36.37	105.64	132.05	3.63		27.438	0.008
6	0.84	1.68	0.84	5.03	6.29	7.47		17.560	2.069
10	0.05	3.03	3.58	20.47	25.58	7.15		38.809	0.140
12	0.05	0.05							
15	1.16	8.47	7.32	94.95	118.66	16.22		40.536	0.063
20	0.11	0.21	0.11	0.13	0.16	1.49		1.544	1.443
21	18.05	633.37	615.32	2151.02	2598.78	4.37		127.198	0.0
23	1.11	28.16	27.05	163.09	203.86	7.54		201.375	0.0
24	0.16	0.16							
25	0.11	0.11							
26	1.84	1.84							
27	3.42	3.42							
28	110.21	110.21							
29	35.58	398.47	362.89	1631.24	2039.05	5.62		125.868	0.0
30	283.84	1244.05	960.21	6555.25	8194.04	8.53		143.648	0.0
31	20.53	309.95	289.42	748.82	936.02	3.23		83.488	0.0
32	21.58	187.89	166.21	548.15	685.19	4.12		100.755	0.0
34	0.11	0.21	0.11	1.22	1.53	14.52		14.613	14.428
35	0.84	9.63	8.79	40.96	51.20	5.83		34.342	0.063
37	0.47	0.47							
52	4.21	27.37	23.16	24.41	30.51	1.32		6.985	0.088
57	1.37	1.37							
59	0.84	58.32	57.47	106.44	133.04	2.31		52.273	0.0
61	0.11	1.37	1.26	19.97	24.95	19.76		42.668	9.830
62	0.74	36.26	35.53	22.80	28.50	0.80		13.561	0.0
64	3.26	105.79	102.53	223.43	279.29	2.72		76.084	0.0
65	1.05	30.89	29.84	77.21	96.51	3.23		40.318	0.0
66	0.37	43.11	42.74	60.27	75.34	1.76		33.668	0.088
68	0.05	0.05							
69	1.74	1.74							
70	3.26	3.26							
78	0.47	9.84	9.37	78.27	97.84	10.44		32.909	0.319
80	0.32	10.95	10.63	33.54	41.92	3.94		80.097	0.063
81	0.84	26.26	25.42	79.66	99.58	3.92		25.566	0.063
83	15.68	187.00	171.32	676.43	845.53	4.94		115.445	0.0
84	0.05	0.79	0.74	3.61	4.52	6.13		24.596	0.637
90	0.37	15.63	15.26	108.45	135.58	8.88		85.083	0.088
91	0.05	2.37	2.32	3.69	4.61	1.99		4.507	0.442
93	0.32	18.47	18.16	86.35	107.94	5.94		36.915	0.063
94	0.05	2.63	2.58	3.12	3.89	1.51		2.289	0.063
96	0.58	21.53	20.95	123.27	154.08	7.36		66.946	0.063
97	0.32	17.74	17.42	108.95	136.18	7.82		36.476	0.063
98	7.68	180.53	172.89	707.94	884.93	5.12		177.330	0.0
100	0.21	16.00	15.79	23.11	28.89	1.83		17.792	0.125
107	0.21	0.42	0.21	1.61	2.01	9.55		13.638	0.792

A TOTAL NUMBER OF 627.11 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0.0 GND. METRES

TOTAL INKED IN LINES = 4432.89

TOTAL INVISIBLE LINES = 14.26

TOTAL LINES GENERATED = 4447.16

TOTAL DISTANCE GENERATED BY LINES = 24904.33 METRES AT GROUND SCALE
= 1992.346 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 11511.52

NUMBER OF POINTS IN THE FILE = 5220.31

NUMBER OF IGNORED CODES (0 OR >271) = 0.84

NUMBER OF IGNORED RECORDS (0 OR >271) = 25.79

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	ARCHWAY SYMBOL
10	LINE	BOUNDARY - ELECTORAL DIVISION
12	POINT	BOUNDARY - MERGING SYMBOL FULL
15	LINE	RAILWAY - STANDARD GUAGE
20	LINE	RAILWAY - SWITCH
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
37	POINT	TELEPHONE CALL BOX - GPO
52	LINE	STEP TREADS
57	POINT	POINT FEATURES - DOT
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
78	LINE	BOUNDARY - WARD
80	LINE	CL - TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
91	LINE	CL TRUNK/MAIN ROUNDABOUT
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
94	LINE	CL SECONDARY ROUNDABOUT
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
100	LINE	CL RAILWAY - MULTIPLE TRACK
103	LINE	ALIGNMENT FEATURE
108	LINE	SURVEYED PECKS (BANKS ETC)

END OF STRATIFICATION RUN

```
 AAAAAAAAAA    NN          NN  NN          NN  EEEEEEEEEEEE  XX          XX          444
AAAAAAAAAAAA   NNN         NN  NNN         NN  EEEEEEEEEEEE  XX          XX         4444
AA          AA NNNN        NN  NNNN        NN  EE             XX        XX         44 44
AA          AA NN NN       NN  NN NN       NN  EE              XX      XX         44  44
AA          AA NN  NN      NN  NN  NN      NN  EE               XX    XX         44   44
AAAAAAAAAAAAAA NN   NN     NN  NN   NN     NN  EEEEEEEE          XXXX          44444444444
AAAAAAAAAAAAAA NN    NN    NN  NN    NN    NN  EEEEEEEE          XXXX          44444444444
AA          AA NN     NN   NN  NN     NN   NN  EE               XX  XX             44
AA          AA NN      NN  NN  NN      NN  NN  EE              XX    XX            44
AA          AA NN       NNNN  NN       NNNN  EE             XX      XX           44
AA          AA NN        NNN  NN        NNN  EE            XX        XX          44
AA          AA NN         NN  NN         NN  EEEEEEEEEEEE  XX          XX         44
AA          AA NN          N  NN          N  EEEEEEEEEEEE  XX          XX         44
```

FREQUENCIES

1	START OF SHEET	1.
2	END OF SHEET	1.
3	END OF FILE	0.
4	START OF FEATURE	136.
5	END OF FEATURE	136.
6	NO ACTION (7 TRK)	53.
7	FEATURES (LINE)	111.
8	FEATURES (TEXT,SYMBOL)	25.
9	GRID SQUARE INDICATOR	269.
10	TEXT CLASSIFICATION	16.
11	CHARACTER CALLS	16.
12	NO OF ORIENTATIONS	136.
13	INVISIBLE LINE FLAG	0.
14	N/A	0.
15	DISTANCE CALLS	0.
16	N/A	0.
17	CONTOUR CALLS	0.

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	SKEW	KURTOSIS	GROUND MAXIMUM	GROUND MINIMUM
2	4.	19.	15.	28.5	71.13	4.7	1.745	0.8589	-0.525	8.27	3.07
3	19.	83.	64.	279.6	698.98	10.9	8.089	1.4066	1.351	35.35	0.87
4	10.	22.	12.	61.8	154.59	12.9	5.791	-0.0606	-1.550	21.28	5.31
8	1.	57.	56.	213.0	532.60	9.5	11.467	1.8528	2.724	49.23	0.06
13	2.	2.									
21	2.	18.	16.	41.3	103.27	6.5	4.672	1.3211	1.764	19.83	0.44
23	1.	71.	70.	208.0	519.92	7.4	10.024	2.5822	6.498	51.71	0.18
24	2.	2.									
28	16.	16.									
29	9.	127.	118.	415.3	1038.14	8.8	14.136	4.0860	22.731	110.76	0.06
30	44.	437.	395.	2371.9	5929.86	15.1	22.572	2.7184	8.488	146.15	0.06
32	2.	10.	8.	8.2	20.52	2.6	3.402	1.6457	1.188	10.94	0.31
35	1.	31.	30.	23.5	71.24	2.4	1.988	2.1300	4.450	9.75	0.13
59	7.	115.	108.	424.2	1060.60	9.8	25.661	6.0835	38.612	186.50	0.13
61	1.	6.	5.	38.9	97.27	19.5	20.154	0.4009	-1.975	47.96	1.51
62	1.	43.	42.	40.4	101.03	2.4	5.097	3.5022	11.544	24.87	0.06
64	3.	50.	47.	376.6	941.55	20.0	28.925	1.2451	0.339	94.29	0.13
65	3.	29.	26.	66.7	166.82	6.4	6.316	1.7426	3.002	28.11	0.56
69	3.	3.									
70	2.	2.									
99	3.	47.	44.	197.3	493.24	11.2	12.384	2.1296	4.869	60.71	0.42

A TOTAL NUMBER OF 126. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0. GND. METRES

TOTAL INKED IN LINES = 1054.

TOTAL INVISIBLE LINES = 0.

TOTAL LINES GENERATED = 1054.

TOTAL DISTANCE GENERATED BY LINES = 11999.36 METRES AT GROUND SCALE
= 479.974 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 2351.

NUMBER OF POINTS IN THE FILE = 1190.

NUMBER OF IGNORED CODES (0 OR >271) = 4.

NUMBER OF IGNORED RECORDS (0 OR >271) = 25.

FEATURE CODE	FEATURE TYPE	DESCRIPTION
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
8	LINE	BOUNDARY - DISTRICT
13	POINT	BOUNDARY - MERING SYMBOL HALF
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
98	LINE	CL MINOR - OTHER ROADS

FREQUENCIES

1	START OF SHEET	210.
2	END OF SHEET	210.
3	END OF FILE	0.
4	START OF FEATURE	65024.
5	END OF FEATURE	65021.
6	NO ACTION (7 TRK)	20411.
7	FEATURES (LINE)	48755.
8	FEATURES (TEXT,SYMBOL)	16269.
9	GRID SQUARE INDICATOR	131665.
10	TEXT CLASSIFICATION	11105.
11	CHARACTER CALLS	11105.
12	NO OF ORIENTATIONS	65227.
13	INVISIBLE LINE FLAG	295.
14	N/A	0.
15	DISTANCE CALLS	5.
16	N/A	0.
17	CONTOUR CALLS	0.

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	------GROUND------ MAXIMUM	MINIMUM
1	53.	623.	570.	1286.9	3217.30	5.6	5.211	2.0059	5.482	37.25	0.13
2	3072.	14059.	10987.	19184.0	47959.86	4.4	2.946	3.5265	24.997	42.92	0.06
3	4922.	34254.	29332.	83738.3	209345.56	7.1	6.015	2.3749	9.609	81.69	0.06
4	960.	2565.	1605.	5231.8	13079.42	8.1	6.331	1.8233	4.777	49.90	0.06
5	2.	4.	2.	3.0	7.44	3.7	0.0	0.0	0.0	3.94	3.50
6	14.	28.	14.	34.4	86.07	6.1	1.535	-0.4925	-1.042	7.93	3.35
7	186.	21166.	20980.	45509.3	113773.25	5.4	8.073	6.8569	116.529	285.13	0.06
8	24.	1831.	1807.	5574.6	13936.49	7.7	12.615	3.3480	14.756	118.95	0.06
9	18.	3035.	3017.	5210.1	13025.19	4.3	6.787	4.5144	29.549	91.19	0.06
11	2.	2.									
12	395.	395.									
13	225.	225.									
14	4.	36.	32.	33.3	83.23	2.6	2.589	1.5049	1.775	11.25	0.12
15	10.	293.	283.	2483.9	6209.64	21.9	49.364	7.9074	71.821	518.58	0.20
19	23.	652.	629.	4260.3	10650.62	16.9	14.738	1.7085	3.275	87.46	0.13
20	4.	8.	4.	5.1	12.84	3.2	1.000	-0.3065	-1.991	4.19	1.89
21	2570.	59687.	57117.	171494.0	428734.94	7.5	11.726	6.5479	86.417	292.41	0.06
22	7.	116.	109.	379.4	948.48	8.7	6.651	1.4160	2.324	34.77	0.14
23	264.	9321.	9057.	21233.5	53083.65	5.9	6.094	5.8587	75.251	210.59	0.06
24	20.	20.									
25	10.	10.									
26	574.	574.									
27	1428.	1428.									
28	11114.	11104.									
29	3189.	101330.	98141.	246074.6	615186.38	6.3	9.947	8.8248	178.102	472.25	0.06
30	21575.	367927.	346352.	892034.4	2230085.00	6.4	10.908	7.5011	115.335	394.00	0.06
31	1203.	24186.	22983.	49738.6	124346.50	5.4	8.224	8.0069	109.952	319.41	0.06
32	1713.	26246.	24533.	63077.3	157693.31	6.4	9.972	6.2682	86.890	263.41	0.06
33	23.	50.	27.	93.5	233.87	8.7	8.011	1.6091	1.538	30.83	0.61
34	2.	4.	2.	4.0	10.02	5.0	0.0	0.0	0.0	5.13	4.89
35	1364.	44232.	42868.	73682.9	184207.13	4.3	6.951	10.4420	235.155	279.49	0.06
36	521.	20646.	20125.	20062.9	50157.24	2.5	3.509	5.0531	37.233	58.30	0.06
37	21.	21.									
39	1.	1.									
44	4.	17.	13.	72.3	180.80	13.9	9.237	0.6200	-1.308	29.67	3.95
45	4.	11.	7.	59.6	149.12	21.3	16.531	0.3833	-1.800	45.11	5.64
47	15.	40.	25.	1566.8	3916.97	156.7	118.970	0.6142	-0.940	377.76	0.54
48	2.	2.									
49	5.	5.									
50	4.	4.									
51	16.	16.									
52	301.	1014.	713.	437.8	1094.49	1.5	0.581	1.8649	6.037	4.86	0.31
53	2.	2.									
54	13.	13.									
55	88.	2468.	2380.	2697.1	6742.67	2.8	9.788	19.3132	459.388	287.14	0.06
57	268.	268.									
58	77.	77.									
59	749.	69900.	69151.	74537.6	186343.88 .65	2.7 4.8	3.457	9.5384	295.197	186.50	0.06

65	196.	4316.	4120.	9417.5	[illegible]	5.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
66	122.	12318.	12196.	15761.5	39403.82	3.2	4.724	9.1111	154.545	140.52	0.06
67	1.	1.									
68	7.	7.									
69	1003.	1003.									
70	868.	868.									
71	36.	8692.	8656.	2966.0	7414.88	0.9	0.734	3.8256	38.768	16.76	0.06
72	115.	5831.	5716.	1996.9	4992.20	0.9	0.790	3.9522	35.193	13.96	0.06
78	1.	2.	1.	0.4	1.02	1.0	0.0	0.0	0.0	1.02	1.02
80	667.	21951.	21284.	58387.2	145967.81	6.9	9.230	9.5691	380.113	495.64	0.06
81	1386.	47856.	46470.	112705.6	281763.88	6.1	7.973	4.6479	45.310	218.38	0.06
82	221.	221.									
83	76.	770.	694.	1657.1	4142.75	6.0	6.889	1.9680	4.582	42.42	0.06
84	193.	8969.	8776.	7865.3	19663.21	2.2	2.539	7.1201	107.347	65.09	0.06
90	12.	511.	499.	4094.6	10236.57	20.5	23.051	2.4869	7.528	162.38	0.13
93	29.	1092.	1063.	7961.8	19904.59	18.7	18.715	2.2841	7.126	143.66	0.13
96	112.	6623.	6511.	27083.0	67707.50	10.4	14.173	5.6747	55.075	232.78	0.06
97	149.	9279.	9130.	29542.4	73856.06	8.1	9.717	4.8271	60.406	221.38	0.06
98	572.	17450.	16878.	47483.8	118709.50	7.0	9.356	4.7213	45.100	210.82	0.06
101	5.	140.	135.	1241.7	3104.19	23.0	46.176	9.2387	96.228	519.72	0.14
103	18.	36.	18.	138.0	344.95	19.2	11.137	0.9154	-0.560	41.80	6.82
108	13.	247.	234.	446.2	1115.58	4.8	5.449	2.2359	6.304	32.85	0.13

A TOTAL NUMBER OF 89416. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 236. GND. METRES

TOTAL INKED IN LINES = 1005104.

TOTAL INVISIBLE LINES = 295.

TOTAL LINES GENERATED = 1005399.

TOTAL DISTANCE GENERATED BY LINES = 5570655.00 METRES AT GROUND SCALE
= 222826.188 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 1644115.

NUMBER OF POINTS IN THE FILE = 1070413.

NUMBER OF IGNORED CODES (0 OR >271) = 446.

NUMBER OF IGNORED RECORDS (0 OR >271) = 30088.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	BUILDING DIVISION - BROKEN LINE
6	LINE	ARCHWAY SYMBOL
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
9	LINE	BOUNDARY - COUNTY OR REGION
11	POINT	BOUNDARY - POST OR STONE
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
14	LINE	RAILWAY - NARROW GUAGE
15	LINE	RAILWAY - STANDARD GUAGE
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
20	LINE	RAILWAY - SWITCH
21	LINE	ROAD PECKS (CARRIAGEWAY)
22	LINE	ROAD - CENTRE LINE
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
33	LINE	TUNNEL ALIGNMENT
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
39	POINT	TELEPHONE CALL BOX - RAC
44	LINE	PIPE LINE - OBSTACLE
45	LINE	PIPE LINE - SUSPENDED OR NON OBSTACLE
47	LINE	ELECTRICITY TRANSMISSION LINE
48	POINT	ELECTRICITY PYLON - STANDARD
49	POINT	ELECTRICITY PYLON - SURVEYED
50	POINT	ELECTRICITY PYLON - PART
51	POINT	ELECTRICITY POSTS (SURVEYED)
52	LINE	STEP TREADS
53	POINT	CAVE SYMBOL
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
67	POINT	FLOW ARROW - LARGE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
71	LINE	MEAN HIGH WATER (MHWS)
72	LINE	MEAN LOW WATER (MLWS)
78	LINE	BOUNDARY - WARD

83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
101	LINE	CL RAILWAY - SINGLE TRACK
103	LINE	ALIGNMENT FEATURE
108	LINE	SURVEYED PECKS (BANKS ETC)

CURRENT LIST OF MAP SHEETS BEEN PROCESSED

SU 66 9	SU 67 9	SU 66 7	SU 3618	SU 8718	SU 8619	SU 8719
SU 8816	SU 8916	SU 8817	SU 8917	SU 8819	SU 8919	NZ 747
SW 3633	SW 3733	SW 3634	SW 3734	SU 8617	SU 8717	SU 8818
SU 8918	SX 2068	SX 2168	SX 2069	SX 2169	SX 2268	SX 2368
SX 2269	SX 2369	SX 2468	SX 2568	SX 2469	SX 2569	SX 2668
SX 2768	SX 2669	SX 2769	SO 2894	SO 2994	SO 2095	SO 2195
SO 2096	SO 2196	SO 2097	SO 2197	SO 2098	SO 2198	SO 2099
SO 2199	SO 2295	SO 2395	SO 2296	SO 2396	SO 2297	SO 2397
SO 2298	SO 2398	SO 2299	SO 2399	SO 2495	SO 2496	SO 2497
SO 2498	SO 2499	SO 2895	SO 2995	SO 2896	SO 2996	SU 2897
SO 2997	SO 3094	SO 3095	SO 3096	SO 3097	SU 6611	SU 8016
SU 8116	SU 8017	SU 8117	SU 8018	SU 8118	SU 8019	SU 8119
SU 8216	SU 8316	SU 8217	SU 8317	SU 8218	SU 8318	SJ 8219
SU 8319	SU 8416	SU 8516	SU 8417	SU 8517	SU 8418	SU 8518
SU 8419	SU 8519	SU 8615	SU 8716	SX 2066	SX 2166	SX 2067
SX 2167	SX 2266	SX 2366	SX 2267	SX 2367	SX 2466	SX 2566
SX 2467	SX 2567	SX 2665	SX 2766	SX 2667	SX 2767	SX 1470
SX 1570	SX 1471	SX 1571	SX 1472	SX 1572	SX 1473	SX 1573
SX 1474	SX 1574	SX 1670	SX 1770	SX 1671	SX 1771	SX 1672
SX 1772	SX 1673	SX 1773	SX 1674	SX 1774	SX 1870	SX 1970
SX 1871	SX 1971	SX 1872	SX 1972	SX 1873	SX 1973	SX 1874
SX 1974	NZ 640	NZ 740	NZ 641	NZ 741	NZ 642	NZ 742
NZ 643	NZ 743	NZ 644	NZ 744	NZ 840	NZ 940	NZ 841
NZ 941	NZ 842	NZ 942	NZ 843	NZ 943	NZ 844	NZ 944
NZ 645	NZ 745	NZ 646	NZ 746	NZ 647	NZ 747	NZ 645
			40	NZ		

NZ 1340	NZ 1241	NZ 1341	NZ 1242	NZ 1342	NZ 1243	NZ 1343
NZ 1244	NZ 1344	NZ 1045	NZ 1145	NZ 1046	NZ 1146	NZ 1047
NZ 1147	NZ 1245	NZ 1345	NZ 1246	NZ 1346	NZ 1247	NZ 1347

A TOTAL OF 210 MAP SHEETS HAVE BEEN PROCESSED

END OF STATUS RUN --- (07-16-79)

SIMPLIFICATION SELECTION OF 60 SHEETS FROM THE 1:500. DATA
==========
AVERAGE DENSE URBAN / HILLY (DERWENTSIDE)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 60 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	194.60
5	END OF FEATURE	194.60
6	NO ACTION (7 TRK)	89.08
7	FEATURES (LINE)	133.50
8	FEATURES (TEXT,SYMBOL)	61.10
9	GRID SQUARE INDICATOR	445.32
10	TEXT CLASSIFICATION	38.18
11	CHARACTER CALLS	38.18
12	NO OF ORIENTATIONS	195.62
13	INVISIBLE LINE FLAG	1.48
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
1	0.07	0.87	0.80	1.54	4.10	5.13		19.137	1.079
2	5.48	24.23	18.75	40.91	102.27	5.45		33.495	0.225
3	9.22	61.55	52.33	173.17	432.94	8.27		56.911	0.063
4	2.10	5.23	3.13	11.82	29.54	9.43		27.306	0.773
5	0.03	0.07	0.03	0.10	0.26	7.72		7.607	7.627
7	0.83	45.10	45.22	219.69	549.22	12.15		172.717	0.063
8	0.18	6.72	6.53	48.16	120.40	18.43		113.949	0.125
11	0.02	0.02							
12	1.92	1.92							
13	1.03	1.03							
19	0.98	3.52	3.43	22.29	55.72	16.23		65.930	0.125
21	8.75	269.07	260.32	1099.80	2749.51	10.56		292.413	0.063
23	0.48	18.02	17.53	40.96	102.39	5.84		45.790	0.063
25	0.02	0.02							
26	2.78	2.78							
27	4.93	4.93							
28	38.20	38.18							
29	8.58	221.88	213.20	1067.51	2668.78	12.52		472.248	0.063
30	57.17	671.65	614.48	3247.49	8118.72	13.21		394.000	0.063
31	2.68	66.03	63.35	176.31	440.77	6.96		138.299	0.063
32	5.87	136.88	131.02	381.54	953.85	7.28		165.053	0.063
35	7.48	241.80	234.32	409.42	1023.56	4.37		203.308	0.063
36	0.52	24.58	24.17	23.82	59.55	2.46		23.891	0.063
37	0.02	0.02							
39	0.02	0.02							
44	0.02	0.03	0.02	0.20	0.49	29.67		29.665	29.665
52	0.77	4.50	3.73	2.30	5.75	1.54		4.664	0.795
54	0.02	0.02							
55	0.18	13.05	12.87	23.58	58.94	4.58		112.800	0.063
57	0.45	0.45							
58	0.53	0.53							
59	3.08	279.35	276.27	316.96	792.41	2.87		58.787	0.063
62	1.02	61.62	60.60	45.57	113.93	1.88		52.904	0.063
64	9.58	433.55	423.97	554.92	1387.29	3.27		215.797	0.063
65	1.42	24.60	23.18	61.47	153.68	6.63		131.466	0.063
66	0.38	34.95	34.57	34.26	85.65	2.48		35.935	0.063
68	0.03	0.03							
69	5.38	5.38							
70	4.83	4.83							
78	0.02	0.03	0.02	0.01	0.02	1.02		1.017	1.017
80	1.40	35.92	34.52	113.73	284.33	8.24		83.280	0.063
81	3.07	68.45	65.38	195.62	489.04	7.48		142.907	0.063
82	0.93	0.93							
83	0.10	0.98	0.88	2.44	6.09	6.90		33.500	0.198
84	0.60	51.68	51.08	45.29	113.23	2.22		62.026	0.063
90	0.13	4.62	4.48	43.48	108.70	24.25		162.383	0.125
93	0.02	1.30	1.28	5.35	13.38	10.43		30.544	0.783
96	0.42	24.77	24.35	134.31	335.77	13.79		232.778	0.088
				7	138.0				

151	0.03	0.55	0.52	1.75	4.37	5.45	13.567	0.732

A TOTAL NUMBER OF 338.23 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0.0 GND. METRES

TOTAL INKED IN LINES = 2759.95

TOTAL INVISIBLE LINES = 1.48

TOTAL LINES GENERATED = 2761.43

TOTAL DISTANCE GENERATED BY LINES = 21803.96 METRES AT GROUND SCALE
= 872.158 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 4803.28

NUMBER OF POINTS IN THE FILE = 2956.02

NUMBER OF IGNORED CODES (0 OR >271) = 2.52

NUMBER OF IGNORED RECORDS (0 OR >271) = 147.37

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
6	LINE	ARCHWAY SYMBOL
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
11	POINT	BOUNDARY - POST OR STONE
12	POINT	BOUNDARY - MERGING SYMBOL FULL
13	POINT	BOUNDARY - MERGING SYMBOL HALF
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
39	POINT	TELEPHONE CALL BOX - RAC
44	LINE	PIPE LINE - OBSTACLE
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
78	LINE	BOUNDARY - WARD
80	LINE	CL - TRACK
81	LINE	TRACK
82	POINT	OBJECTS SHOWN BY CIRCLE (WATER 0.60 MM)
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
103	LINE	ALIGNMENT FEATURE
108	LINE	SURVEYED PECKS (BANKS ETC)

END OF STRATIFICATION RUN

STRATIFICATION SELECTION OF 30 SHEETS FROM THE 2500. DATA

LIGHT DENSE URBAN / HILLY (CORNWALL)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 30 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	181.77
5	END OF FEATURE	181.77
6	NO ACTION (7 TRK)	101.80
7	FEATURES (LINE)	137.30
8	FEATURES (TEXT,SYMBOL)	44.47
9	GRID SQUARE INDICATOR	396.93
10	TEXT CLASSIFICATION	27.57
11	CHARACTER CALLS	27.57
12	NO OF ORIENTATIONS	182.00
13	INVISIBLE LINE FLAG	0.07
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
1	0.03	0.23	0.20	0.74	1.65	9.24		17.029	2.258
2	9.53	42.57	33.13	75.68	189.21	5.71		32.146	0.515
3	4.83	37.17	32.33	91.88	229.69	7.10		48.329	0.198
4	1.30	3.53	2.23	7.49	18.73	8.39		26.843	0.063
7	0.40	44.23	42.83	75.12	187.80	4.23		81.975	0.063
8	0.33	24.77	24.15	60.13	150.32	6.15		90.185	0.063
12	1.23	1.23							
13	0.37	0.37							
21	7.47	209.43	201.97	637.96	1594.91	7.90		192.354	0.063
23	0.27	10.90	10.63	31.75	79.38	7.47		112.706	0.063
25	0.03	0.03							
26	1.87	1.87							
27	5.73	5.73							
28	27.70	27.57							
29	6.13	206.80	200.67	615.18	1540.45	7.68		303.324	0.063
30	76.07	1525.30	1449.23	3901.28	9753.19	6.73		309.992	0.063
31	0.73	16.03	15.30	38.21	95.51	6.24		313.408	0.063
32	6.30	125.03	118.77	268.76	671.90	5.66		143.003	0.063
35	7.00	268.63	261.63	438.20	1095.50	4.19		137.837	0.063
36	1.10	36.83	35.73	30.15	75.39	2.11		24.050	0.063
37	0.03	0.03							
52	2.30	5.00	2.70	1.56	3.91	1.45		2.918	0.313
54	0.13	0.13							
55	2.37	51.50	49.13	22.29	55.72	1.13		22.120	0.063
57	2.97	2.97							
58	0.97	0.97							
59	4.37	381.03	376.67	459.45	1148.64	3.05		72.707	0.063
61	0.17	4.90	4.73	11.88	29.69	6.27		26.152	0.140
62	2.00	180.90	178.90	115.54	288.85	1.61		39.391	0.063
64	4.17	234.33	230.17	267.71	669.29	2.91		148.977	0.063
65	0.13	1.50	1.37	5.33	13.33	9.76		46.002	0.590
68	0.07	0.07							
69	2.80	2.80							
70	0.70	0.70							
80	0.03	0.33	0.30	2.54	6.34	21.15		42.556	4.729
96	0.07	2.60	2.53	14.56	36.39	14.36		31.337	0.198
98	0.07	2.60	2.53	5.84	14.59	5.76		15.578	0.140

A TOTAL NUMBER OF 234.83 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0.0 GND. METRES

TOTAL INKED IN LINES = 3279.03

TOTAL INVISIBLE LINES = 0.07

= 717.829 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 5106.70

NUMBER OF POINTS IN THE FILE = 3460.73

NUMBER OF IGNORED CODES (0 OR >271) = 4.60

NUMBER OF IGNORED RECORDS (0 OR >271) = 343.40

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
12	POINT	BOUNDARY - MERGING SYMBOL FULL
13	POINT	BOUNDARY - MERGING SYMBOL HALF
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPPESSED)
37	POINT	TELEPHONE CALL BOX - GPO
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
80	LINE	CL - TRACK
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
98	LINE	CL MINOR - OTHER ROADS

END OF STRATIFICATION RUN

LIGHT DENSE URBAN / UNDULATING (CORNWALL)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 32 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	497.03
5	END OF FEATURE	496.94
6	NO ACTION (7 TRK)	121.94
7	FEATURES (LINE)	384.03
8	FEATURES (TEXT,SYMBOL)	113.00
9	GRID SQUARE INDICATOR	910.69
10	TEXT CLASSIFICATION	77.13
11	CHARACTER CALLS	77.13
12	NO OF ORIENTATIONS	497.63
13	INVISIBLE LINE FLAG	1.00
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
1	0.47	4.50	4.03	9.21	23.03	5.71		27.542	0.625
2	26.50	126.50	100.00	157.94	394.84	3.95		28.007	0.063
3	50.69	364.50	313.81	848.00	2120.01	6.76		59.877	0.063
4	8.75	23.53	14.78	45.60	113.99	7.71		33.260	0.088
7	0.84	135.22	134.38	226.95	567.37	4.22		43.500	0.063
12	1.09	1.09							
13	0.91	0.91							
19	0.31	7.56	7.25	28.74	71.86	9.91		52.444	0.140
21	21.28	329.47	308.19	553.84	1384.59	4.49		83.462	0.063
23	0.28	7.26	6.97	14.16	35.41	5.08		30.952	0.088
25	0.03	0.03							
26	4.44	4.44							
27	12.44	12.44							
28	77.25	77.13							
29	36.63	1259.53	1222.91	2165.93	5414.82	4.43		90.475	0.063
30	167.13	3288.25	3121.13	5613.99	14034.98	4.50		132.689	0.063
31	15.28	262.55	247.28	517.06	1292.65	5.23		99.131	0.063
32	8.59	90.22	81.63	143.54	358.84	4.40		85.068	0.063
35	4.44	134.50	130.06	186.74	466.85	3.59		122.932	0.063
36	0.59	26.09	25.50	19.63	49.07	1.92		37.059	0.063
37	0.13	0.13							
44	0.03	0.31	0.28	0.96	2.39	8.50		16.402	3.953
45	0.03	0.16	0.13	1.12	2.81	22.44		41.450	5.641
52	0.06	0.13	0.06	0.03	0.07	1.06		1.127	0.988
57	1.34	1.34							
58	0.34	0.34							
59	8.38	492.75	484.38	523.21	1308.02	2.69		45.749	0.063
61	0.22	10.22	10.00	18.54	46.34	4.63		23.482	0.063
62	0.75	26.09	25.34	21.73	54.34	2.14		36.123	0.063
64	14.00	502.28	488.28	527.57	1318.93	2.70		86.298	0.063
65	0.16	2.53	2.38	3.49	8.73	3.68		24.246	0.063
66	1.34	104.84	103.50	159.82	399.55	3.86		42.316	0.063
68	0.03	0.03							
69	7.75	7.75							
70	4.19	4.19							
80	1.81	77.56	75.75	152.15	380.38	5.02		80.035	0.063
81	4.69	164.81	160.13	303.63	759.08	4.74		75.198	0.063
82	3.06	3.06							
83	0.47	4.31	3.84	4.53	11.32	2.94		32.731	0.063
84	1.22	28.97	27.75	38.38	95.95	3.46		65.091	0.063
93	0.13	5.16	5.03	41.21	103.03	20.48		74.152	1.876
96	1.63	89.09	87.47	315.22	788.05	9.01		218.306	0.063
97	2.56	148.72	146.16	423.87	1059.69	7.25		221.381	0.063
98	5.53	218.75	212.22	535.30	1338.25	6.31		210.822	0.063
103	0.03	0.06	0.03	0.48	1.20	38.40		38.405	38.405
108	0.22	5.19	4.97	6.81	17.02	3.45		18.705	0.125

TOTAL DISTANCE OF -15 CODED LINES = 0.0 GND. METRES

TOTAL INKED IN LINES = 7556.50

TOTAL INVISIBLE LINES = 1.00

TOTAL LINES GENERATED = 7557.50

TOTAL DISTANCE GENERATED BY LINES = 54015.34 METRES AT GROUND SCALE
= 1360.614 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 12206.22

NUMBER OF POINTS IN THE FILE = 8054.50

NUMBER OF IGNORED CODES (0 OR >271) = 1.47

NUMBER OF IGNORED RECORDS (0 OR >271) = 119.28

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
7	LINE	BOUNDARY - PARISH OR COMMUNITY
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
44	LINE	PIPE LINE - OBSTACLE
45	LINE	PIPE LINE - SUSPENDED OR NON OBSTACLE
52	LINE	STEP TREADS
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
80	LINE	CL - TRACK
81	LINE	TRACK
82	POINT	OBJECTS SHOWN BY CIRCLE (WATER 0.60 MM)
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
103	LINE	ALIGNMENT FEATURE
108	LINE	SURVEYED PECKS (BANKS ETC)

END OF STRATIFICATION RUN

[illegible] 40 SHEETS FROM THE 2500. DATA

DENSE URBAN / HILLY (WEST SUSSEX)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 40 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	267.67
5	END OF FEATURE	267.67
6	NO ACTION (7 TRK)	96.97
7	FEATURES (LINE)	191.22
8	FEATURES (TEXT,SYMBOL)	76.45
9	GRID SQUARE INDICATOR	605.77
10	TEXT CLASSIFICATION	55.57
11	CHARACTER CALLS	55.57
12	NO OF ORIENTATIONS	269.60
13	INVISIBLE LINE FLAG	1.00
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
1	0.32	4.60	4.27	6.55	16.38	3.83		17.067	0.188
2	10.67	51.80	41.13	70.57	176.43	4.29		42.925	0.063
3	17.85	126.90	109.05	327.74	819.34	7.51		81.692	0.063
4	3.80	9.92	6.13	19.48	48.69	7.95		41.677	0.198
6	0.10	0.20	0.10	0.22	0.56	5.62		7.926	3.350
7	1.67	212.02	210.35	408.11	1020.28	4.85		285.131	0.063
11	0.02	0.02							
12	3.00	3.00							
13	2.13	2.13							
19	0.15	2.22	2.07	30.03	75.08	36.18		87.464	0.593
21	10.63	235.00	224.38	562.64	1406.61	6.27		216.091	0.063
23	4.10	150.15	146.05	334.00	835.01	5.72		210.592	0.063
25	0.07	0.07							
26	2.15	2.15							
27	7.40	7.40							
28	55.60	55.57							
29	11.15	343.52	332.38	810.70	2026.75	6.10		88.755	0.063
30	69.97	1523.38	1463.40	3842.79	9606.96	6.56		330.520	0.063
31	4.80	116.80	112.00	252.65	631.64	5.64		79.186	0.063
32	9.60	149.95	140.35	421.49	1053.73	7.51		226.730	0.063
35	5.35	148.92	143.57	299.14	747.86	5.21		279.485	0.063
36	1.25	56.00	54.75	58.92	147.31	2.69		44.566	0.063
37	0.13	0.13							
47	0.07	0.22	0.15	6.12	15.30	102.03		140.967	0.538
51	0.10	0.10							
52	0.45	1.75	1.30	0.86	2.12	1.63		2.725	0.954
54	0.02	0.02							
55	0.02	1.97	1.95	4.60	11.51	5.90		28.315	1.463
57	0.67	0.67							
58	0.02	0.02							
59	1.92	192.47	190.55	163.38	408.45	2.14		47.440	0.063
61	0.17	4.97	4.80	4.63	11.59	2.41		16.850	0.125
62	1.88	88.25	86.38	65.23	163.08	1.89		34.247	0.063
64	3.65	244.75	241.10	243.34	609.61	2.53		45.966	0.063
65	0.97	26.97	26.00	54.32	135.80	5.22		122.234	0.063
66	0.30	22.42	22.13	20.52	51.31	2.32		17.559	0.063
69	2.05	2.05							
70	2.82	2.92							
80	9.57	341.90	332.32	939.55	2348.87	7.07		495.642	0.063
81	16.92	747.60	730.67	1801.41	4503.51	6.16		218.382	0.063
82	0.30	0.30							
83	0.27	2.65	2.38	6.03	15.07	6.34		36.156	0.313
84	0.52	16.05	15.52	13.46	33.64	2.17		29.847	0.063
90	0.07	5.07	5.00	31.17	77.92	15.58		51.151	0.188
93	0.05	2.95	2.90	13.96	34.91	12.04		45.444	0.388
96	0.38	32.75	32.38	113.46	283.65	8.76		61.933	0.063
97	0.45	24.22	23.77	99.85	249.62	10.50		155.626	0.063
98	1.95	55.60	52.65	162.75	406.96	7.59		74.086	0.063
				3.09	7.71				

A TOTAL NUMBER OF 444.05 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0.0 GND. METRES

TOTAL INKED IN LINES = 4763.02

TOTAL INVISIBLE LINES = 1.00

TOTAL LINES GENERATED = 4764.02

TOTAL DISTANCE GENERATED BY LINES = 27975.95 METRES AT GROUND SCALE
= 1119.038 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 7567.65

NUMBER OF POINTS IN THE FILE = 5031.67

NUMBER OF IGNORED CODES (0 OR >271) = 1.00

NUMBER OF IGNORED RECORDS (0 OR >271) = 127.65

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
6	LINE	ARCHWAY SYMBOL
7	LINE	BOUNDARY - PARISH OR COMMUNITY
11	POINT	BOUNDARY - POST OR STONE
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
47	LINE	ELECTRICITY TRANSMISSION LINE
51	POINT	ELECTRICITY POSTS (SURVEYED)
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.50 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
80	LINE	CL - TRACK
81	LINE	TRACK
82	POINT	OBJECTS SHOWN BY CIRCLE (WATER 0.60 MM)
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
103	LINE	SURVEYED PECKS (BANKS ETC)

END OF STRATIFICATION RUN

CLASSIFICATION SELECTION OF 25 SHEETS FROM THE 2500. DATA

DENSE/LT. DENSE URBAN / HILLY/UNDULATING (SALOP)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 25 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	343.84
5	END OF FEATURE	343.84
6	NO ACTION (7 TRK)	92.08
7	FEATURES (LINE)	268.32
8	FEATURES (TEXT,SYMBOL)	75.52
9	GRID SQUARE INDICATOR	692.52
10	TEXT CLASSIFICATION	49.36
11	CHARACTER CALLS	49.36
12	NO OF ORIENTATIONS	345.00
13	INVISIBLE LINE FLAG	2.24
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
1	0.32	5.16	4.84	11.32	29.30	5.85		31.207	0.125
2	16.68	73.60	56.92	91.59	223.85	4.02		25.085	0.125
3	33.40	210.24	176.84	502.55	1256.36	7.10		62.353	0.063
4	8.52	23.72	15.20	53.30	133.24	8.77		49.805	0.438
6	0.24	0.48	0.24	0.60	1.51	6.30		7.269	5.458
7	1.00	153.36	152.36	220.41	551.02	3.62		92.162	0.063
9	0.56	97.16	96.60	145.97	364.93	3.78		71.630	0.063
12	2.24	2.24							
13	1.12	1.12							
15	0.40	11.72	11.32	99.35	248.39	21.94		518.581	0.198
21	13.00	348.56	335.56	979.67	2449.17	7.30		210.945	0.063
22	0.24	3.96	3.72	14.39	35.98	9.67		34.773	0.699
23	0.28	12.24	11.96	24.07	60.18	5.03		50.290	0.063
25	0.08	0.08							
26	2.16	2.16							
27	4.48	4.48							
28	49.32	49.32							
29	12.32	488.84	476.52	1223.76	3059.41	6.42		303.883	0.063
30	118.84	1654.48	1735.64	4504.01	11260.03	6.49		342.753	0.063
31	3.12	56.00	52.88	137.57	343.92	6.50		105.066	0.063
32	10.68	125.08	114.40	243.63	609.07	5.32		263.409	0.063
33	0.64	1.28	0.64	1.24	3.09	4.84		6.488	2.824
34	0.08	0.16	0.08	0.16	0.40	5.01		5.127	4.890
35	6.00	200.64	194.64	285.15	712.88	3.66		129.034	0.063
36	2.88	140.88	138.00	208.70	521.76	3.78		58.302	0.063
37	0.12	0.12							
47	0.16	0.60	0.44	18.79	46.98	106.77		193.902	14.629
48	0.08	0.08							
51	0.48	0.48							
52	3.56	10.24	6.68	3.89	9.71	1.45		4.361	0.699
54	0.24	0.24							
55	0.16	0.60	0.44	15.31	40.77	92.67		287.143	4.112
57	1.28	1.28							
58	0.08	0.08							
59	2.96	504.52	501.56	517.37	1293.42	2.58		117.878	0.063
61	0.16	2.20	2.04	3.36	9.65	4.73		23.258	0.125
62	4.20	197.80	193.60	125.82	314.56	1.62		37.900	0.063
64	10.32	376.32	366.00	548.26	1370.69	3.75		139.691	0.063
65	1.08	43.04	41.96	80.78	201.94	4.81		104.514	0.063
66	1.40	193.16	191.76	263.38	658.46	3.43		140.522	0.063
67	0.04	0.04							
68	0.08	0.08							
69	5.76	5.76							
70	7.16	7.16							
80	2.56	57.68	55.12	174.49	436.22	7.91		75.024	0.063
81	5.96	133.68	127.72	359.72	899.29	7.04		174.015	0.063
82	0.80	0.80							
83	0.24	2.56	2.32	4.15	10.36	4.47		17.545	0.198
				5.94	14.80				

96	0.56	27.04	27.03	108.02	270.06	9.97	215.591	0.063
97	0.48	32.96	32.43	109.75	274.36	3.45	43.251	0.063
98	4.04	85.04	81.00	282.75	706.88	8.73	180.823	0.063
101	0.20	5.60	5.40	49.67	124.17	22.99	519.720	0.140
103	0.08	0.16	0.08	0.36	0.82	10.28	11.947	8.614

A TOTAL NUMBER OF 362.68 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0.0 GND. METRES

TOTAL INKED IN LINES = 5239.80

TOTAL INVISIBLE LINES = 2.24

TOTAL LINES GENERATED = 5242.04

TOTAL DISTANCE GENERATED BY LINES = 29010.29 METRES AT GROUND SCALE
= 1160.771 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 8569.02

NUMBER OF POINTS IN THE FILE = 5585.88

NUMBER OF IGNORED CODES (0 OR >271) = 0.12

NUMBER OF IGNORED RECORDS (0 OR >271) = 3.00

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
6	LINE	ARCHWAY SYMBOL
7	LINE	BOUNDARY - PARISH OR COMMUNITY
9	LINE	BOUNDARY - COUNTY OR REGION
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
15	LINE	RAILWAY - STANDARD GUAGE
21	LINE	ROAD PECKS (CARRIAGEWAY)
22	LINE	ROAD - CENTRE LINE
23	LINE	PATH (UM)
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
33	LINE	TUNNEL ALIGNMENT
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
47	LINE	ELECTRICITY TRANSMISSION LINE
48	POINT	ELECTRICITY PYLON - STANDARD
51	POINT	ELECTRICITY POSTS (SURVEYED)
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
67	POINT	FLOW ARROW - LARGE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
80	LINE	CL - TRACK
81	LINE	TRACK
82	POINT	OBJECTS SHOWN BY CIRCLE (WATER 0.60 MM)
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
101	LINE	CL RAILWAY - SINGLE TRACK
103	LINE	ALIGNMENT FEATURE

END OF STRATIFICATION RUN

STRATIFICATION SELECTION OF 12 SHEETS FROM THE 2500. DATA

LIGHT DENSE URBAN / HILLY (SALOP/PONYS)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 12 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	362.83
5	END OF FEATURE	362.83
6	NO ACTION (7 TRK)	92.92
7	FEATURES (LINE)	283.00
8	FEATURES (TEXT,SYMBOL)	79.83
9	GRID SQUARE INDICATOR	738.33
10	TEXT CLASSIFICATION	50.50
11	CHARACTER CALLS	50.50
12	NO OF ORIENTATIONS	363.17
13	INVISIBLE LINE FLAG	0.58
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
1	0.42	2.42	2.00	4.63	11.58	5.79		11.847	1.512
2	17.92	83.42	65.50	101.58	253.95	3.88		19.379	0.177
3	23.08	136.33	115.25	307.73	769.32	6.68		40.675	0.258
4	5.42	15.42	10.00	30.65	76.63	7.66		22.397	0.125
8	0.08	38.17	38.08	18.16	45.39	1.19		20.328	0.063
9	0.33	50.50	50.17	130.06	325.16	6.48		91.192	0.063
12	1.50	1.50							
13	0.33	0.33							
21	14.42	344.33	329.92	769.02	1922.56	5.83		175.241	0.063
22	0.08	1.42	1.33	1.63	4.08	3.06		7.603	0.140
23	1.50	50.67	49.17	96.52	241.30	4.91		43.459	0.063
25	0.08	0.08							
26	3.00	3.00							
27	6.33	6.33							
28	50.50	50.50							
29	13.25	735.75	722.50	1217.43	3043.58	4.21		145.993	0.063
30	119.67	3062.83	2943.17	5264.29	13160.72	4.47		234.800	0.063
31	6.17	125.58	119.42	221.59	553.97	4.64		90.226	0.063
32	6.17	70.50	64.33	101.33	254.57	3.96		70.722	0.063
35	11.42	389.92	378.50	676.15	1690.41	4.47		87.597	0.063
36	23.25	669.83	646.58	616.12	1540.30	2.38		34.541	0.063
37	0.25	0.25							
52	0.50	2.17	1.67	1.08	2.71	1.63		2.699	0.884
54	0.08	0.08							
55	0.08	3.83	3.75	1.83	4.58	1.22		3.443	0.140
57	0.83	0.83							
59	3.08	237.67	234.58	163.73	409.34	1.74		20.421	0.063
62	0.58	12.17	11.58	5.43	13.57	1.17		4.957	0.063
64	14.00	989.00	975.00	903.04	2257.59	2.32		63.496	0.063
65	0.58	8.50	7.92	19.55	48.88	6.17		41.934	0.140
66	0.50	90.83	90.33	84.64	211.59	2.34		19.539	0.063
69	7.25	7.25							
70	7.25	7.25							
80	3.67	127.50	123.83	291.84	729.60	5.89		84.915	0.063
81	11.33	285.50	274.17	629.35	1573.38	5.74		67.013	0.063
82	2.42	2.42							
84	0.67	29.50	28.83	25.40	63.49	2.20		31.256	0.063
97	1.50	125.00	123.50	382.34	955.85	7.74		208.288	0.063
98	3.33	129.25	125.92	333.13	832.81	6.61		103.996	0.063

A TOTAL NUMBER OF 390.67 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0.0 GND. METRES

TOTAL INKED IN LINES = 7536.41

TOTAL LINES GENERATED = 7697.00

TOTAL DISTANCE GENERATED BY LINES = 30984.88 METRES AT GROUND SCALE
= 1239.395 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 11051.25

NUMBER OF POINTS IN THE FILE = 7899.83

NUMBER OF IGNORED CODES (0 OR >271) = 0.0

NUMBER OF IGNORED RECORDS (0 OR >271) = 0.0

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
8	LINE	BOUNDARY - DISTRICT
9	LINE	BOUNDARY - COUNTY OR REGION
12	POINT	BOUNDARY - MERGING SYMBOL FULL
13	POINT	BOUNDARY - MERGING SYMBOL HALF
21	LINE	ROAD PECKS (CARRIAGEWAY)
22	LINE	ROAD - CENTRE LINE
23	LINE	PATH (UM)
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT
59	LINE	BANK OF DOUBLE RIVER / STREAM
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
80	LINE	CL - TRACK
81	LINE	TRACK
82	POINT	OBJECTS SHOWN BY CIRCLE (WATER 0.60 MM)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS

END OF STRATIFICATION RUN

```
 AAAAAAAAAA    NN          NN  NN          NN  EEEEEEEEEEEE  XX          XX          555555555555
AAAAAAAAAAAA   NNN         NN  NNN         NN  EEEEEEEEEEEE  XX          XX          555555555555
AA          AA NNNN        NN  NNNN        NN  EE             XX        XX          55
AA          AA NN NN       NN  NN NN       NN  EE              XX      XX           55
AA          AA NN  NN      NN  NN  NN      NN  EE               XX    XX            55
AAAAAAAAAAAAA  NN   NN     NN  NN   NN     NN  EEEEEEEE          XXXX              555555555
AAAAAAAAAAAAA  NN    NN    NN  NN    NN    NN  EEEEEEEE          XXXX              5555555555
AA          AA NN     NN   NN  NN     NN   NN  EE               XX  XX                       55
AA          AA NN      NN  NN  NN      NN  NN  EE              XX    XX                      55
AA          AA NN       NNNN  NN       NNNN  EE             XX      XX                     55
AA          AA NN        NNN  NN        NNN  EE            XX        XX                    55
AA          AA NN         NN  NN         NN  EEEEEEEEEEEE  XX          XX          555555555555
AA          AA NN          N  NN          N  EEEEEEEEEEEE  XX          XX          55555555555
```

CLASSIFICATION SELECTION OF 2 SHEETS FROM THE 1250. DATA
TWO 1250 QUADRANTS FOR COMPARISON WITH 2500 AREA

(NOTE:- ALL COUNTS ARE MEANED FOR THE 2 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	545.50
5	END OF FEATURE	545.50
6	NO ACTION (7 TRK)	111.00
7	FEATURES (LINE)	428.50
8	FEATURES (TEXT,SYMBOL)	117.00
9	GRID SQUARE INDICATOR	932.00
10	TEXT CLASSIFICATION	93.00
11	CHARACTER CALLS	93.00
12	NO OF ORIENTATIONS	543.00
13	INVISIBLE LINE FLAG	9.50
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
1	1.00	7.00	6.00	36.15	45.18	7.53		16.446	2.523
2	44.50	204.00	159.50	433.50	541.87	3.40		9.546	0.400
3	76.50	676.50	560.00	2416.53	3020.66	5.39		84.266	0.225
4	39.50	95.00	55.50	137.69	172.11	3.10		38.122	0.400
8	4.50	188.00	184.50	566.17	707.71	3.84		23.401	0.0
12	5.50	5.50							
13	2.50	2.50							
21	10.50	524.50	514.00	1402.29	1752.86	3.41		76.649	0.0
23	0.50	16.00	15.50	111.61	139.51	9.00		13.582	2.450
24	5.00	5.00							
26	0.50	0.50							
27	2.00	2.00							
28	93.00	93.00							
29	24.50	314.00	289.50	1385.37	1669.84	5.77		88.843	0.063
30	161.00	1190.50	950.50	4875.29	6094.11	6.36		155.237	0.0
31	11.50	191.50	180.00	503.64	629.55	3.50		81.722	0.0
32	19.00	90.00	71.00	521.70	652.13	9.18		66.093	0.442
52	1.00	2.00	1.00	1.09	1.36	1.36		1.486	1.228
57	7.50	7.50							
59	5.00	164.50	159.50	405.09	506.36	3.17		40.473	0.0
61	1.50	23.50	22.00	78.28	97.85	4.45		17.793	0.088
65	9.50	175.50	166.00	645.03	806.28	4.86		132.470	0.063
69	1.00	1.00							
78	2.00	36.50	34.50	138.53	173.16	5.02		34.152	0.063
80	2.00	47.00	45.00	232.81	291.01	6.47		44.053	0.140
81	2.00	108.50	106.50	462.54	578.17	5.43		17.809	0.125
83	6.50	30.00	28.50	230.55	288.19	10.11		33.411	0.0
90	0.50	4.50	4.00	66.02	82.52	20.63		46.492	8.167
93	0.50	5.00	4.50	190.27	237.84	52.85		86.154	34.603
98	5.00	64.00	59.00	486.82	608.53	10.31		73.728	0.063

A TOTAL NUMBER OF 522.50 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0.0 GND. METRES

TOTAL INKED IN LINES = 3616.00

TOTAL INVISIBLE LINES = 9.50

TOTAL LINES GENERATED = 3625.50

TOTAL DISTANCE GENERATED BY LINES = 19091.62 METRES AT GROUND SCALE
= 1527.329 CMS AT MAP SCALE

= 3725.50

NUMBER OF IGNORED CODES (0 OR >271) = 3.50

NUMBER OF IGNORED RECORDS (0 OR >271) = 107.00

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
8	LINE	BOUNDARY - DISTRICT
12	POINT	BOUNDARY - MERGING SYMBOL FULL
13	POINT	BOUNDARY - MERGING SYMBOL HALF
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
52	LINE	STEP TREADS
57	POINT	POINT FEATURES - DOT
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
65	LINE	SINGLE DRAIN
69	POINT	FLOW ARROW - SMALL
78	LINE	BOUNDARY - WARD
80	LINE	CL - TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
98	LINE	CL MINOR - OTHER ROADS

END OF STRATIFICATION RUN

STRATIFICATION SELECTION IF 1 SHEETS FROM THE 2500. DATA
SINGLE 2500 SHEET FOR COMPARISON WITH TWO 1250'S

(NOTE:- ALL COUNTS ARE MEANED FOR THE 1 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	136.00
5	END OF FEATURE	136.00
6	NO ACTION (7 TPK)	53.00
7	FEATURES (LINE)	111.00
8	FEATURES (TEXT,SYMBOL)	25.00
9	GRID SQUARE INDICATOR	269.00
10	TEXT CLASSIFICATION	15.00
11	CHARACTER CALLS	16.00
12	NO OF ORIENTATIONS	138.00
13	INVISIBLE LINE FLAG	0.0
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
2	4.00	19.00	15.00	28.45	71.13	4.74		8.274	3.065
3	19.00	83.00	64.00	279.56	698.90	10.92		38.347	0.871
4	10.00	29.00	12.00	61.83	154.59	12.88		21.280	5.313
8	1.00	57.00	56.00	213.04	532.60	9.51		49.233	0.063
13	2.00	2.00							
21	2.00	18.00	16.00	41.31	103.27	6.45		19.825	0.438
23	1.00	71.00	70.00	207.97	519.92	7.43		51.714	0.177
24	2.00	2.00							
28	16.00	16.00							
29	9.00	127.00	118.00	415.26	1038.14	8.80		110.764	0.063
30	44.00	437.00	393.00	2371.87	5929.66	15.09		146.145	0.063
32	2.00	10.00	8.00	8.21	20.52	2.57		10.945	0.313
35	1.00	31.00	30.00	29.50	71.24	2.37		9.753	0.125
59	7.00	115.00	108.00	424.24	1060.60	9.82		186.504	0.125
61	1.00	6.00	5.00	38.91	97.27	19.45		47.963	1.505
62	1.00	43.00	42.00	40.41	101.03	2.41		24.866	0.063
64	3.00	50.00	47.00	376.62	941.55	20.03		94.288	0.125
65	3.00	29.00	26.00	66.75	166.82	6.42		28.108	0.563
69	3.00	5.00							
70	2.00	2.00							
98	3.00	47.00	44.00	197.30	493.24	11.21		60.706	0.419

A TOTAL NUMBER OF 125.00 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0.0 GND. METRES

TOTAL INKED IN LINES = 1054.00

TOTAL INVISIBLE LINES = 0.0

TOTAL LINES GENERATED = 1054.00

TOTAL DISTANCE GENERATED BY LINES = 11999.35 METRES AT GROUND SCALE
= 479.974 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 2351.00

NUMBER OF POINTS IN THE FILE = 1190.00

NUMBER OF IGNORED CODES (0 OR >271) = 4.00

NUMBER OF IGNORED RECORDS (0 OR >271) = 95.00

FEATURE CODE DESCRIPTION

CODE	TYPE	DESCRIPTION
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
8	LINE	BOUNDARY - DISTRICT
13	POINT	BOUNDARY - MERGING SYMBOL HALF
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (OM)
24	POINT	MINOR CONTROL POINT
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
98	LINE	CL MINOR - OTHER ROADS

END OF STRATIFICATION RUN

```
 AAAAAAAAAA    NN          NN  NN          NN  EEEEEEEEEEEE  XX          XX          6666666666
AAAAAAAAAAAA   NNN         NN  NNN         NN  EEEEEEEEEEEE  XX          XX         666666666665
AA          AA NNNN        NN  NNNN        NN  EE             XX        XX         66          66
AA          AA NN NN       NN  NN NN       NN  EE              XX      XX          66
AA          AA NN  NN      NN  NN  NN      NN  EE               XX    XX           66
AAAAAAAAAAAAA  NN   NN     NN  NN   NN     NN  EEEEEEEE          XXXX             66666666666
AAAAAAAAAAAAA  NN    NN    NN  NN    NN    NN  EEEEEEEE          XXXX            666666666666
AA          AA NN     NN   NN  NN     NN   NN  EE               XX  XX          66          66
AA          AA NN      NNNN NN  NN      NNNN  EE              XX    XX         66          66
AA          AA NN       NNN NN  NN       NNN  EE             XX      XX        66          66
AA          AA NN        NN NN  NN        NN  EEEEEEEEEEEE  XX          XX     666666666666
AA          AA NN         N NN  NN         N  EEEEEEEEEEEE  XX          XX      6666666666
```

SHEET 50000

FREQUENCIES

1	START OF SHEET	1.
2	END OF SHEET	1.
3	END OF FILE	0.
4	START OF FEATURE	3454.
5	END OF FEATURE	3454.
6	NO ACTION (7 TRK)	0.
7	FEATURES (LINE)	2389.
8	FEATURES (TEXT,SYMBOL)	1065.
9	GRID SQUARE INDICATOR	3933.
10	TEXT CLASSIFICATION	140.
11	CHARACTER CALLS	140.
12	NO OF ORIENTATIONS	3454.
13	INVISIBLE LINE FLAG	0.
14	N/A	0.
15	DISTANCE CALLS	0.
16	N/A	0.
17	CONTOUR CALLS	0.

Sheet 202

Water Features
(for entire sheet)

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	SKEW	KURTOSIS	GROUND MAXIMUM	GROUND MINIMUM	LOGARITHMIC TRANSFORMATION SKEW	LOGARITHMIC TRANSFORMATION KURTOSIS
28	140.	140.											
59	47.	6221.	6174.	1232.7	61634.44	10.0	7.006	3.6113	34.121	122.47	0.0	0.2487	-1.090
62	95.	2629.	2534.	366.2	18308.86	7.2	8.728	13.0275	344.256	272.23	0.0	0.6591	2.828
64	1122.	38109.	36987.	6558.5	327923.63	8.9	6.206	4.0792	57.605	192.08	0.0	0.4245	-0.356
66	136.	3105.	2969.	629.8	31489.71	10.6	6.938	1.2798	2.572	53.91	0.0	0.0539	-1.279
71	35.	6267.	6232.	897.8	44891.96	7.2	8.053	9.3843	158.955	232.00	0.0	1.3622	2.597
198	65.	7221.	7156.	1284.7	64233.54	9.0	6.755	2.2494	10.542	79.92	0.0	0.4372	-0.592
199	70.	1476.	1406.	434.8	21742.13	15.5	11.497	1.8307	5.186	93.34	1.94	-0.5323	-1.718
200	3.	132.	129.	22.9	1147.30	8.9	5.537	1.3257	3.033	34.93	2.00	0.6270	-1.619
201	4.	8.	4.	67.3	3363.67	840.9	542.586	0.5271	-1.858	1609.22	398.90	0.7500	-1.688
202	721.	13603.	12882.	2694.1	134704.69	10.5	13.672	42.6333	2606.732	950.02	0.0	0.0735	-0.844
203	12.	3390.	3378.	1336.2	66810.75	19.8	15.662	3.7314	35.793	264.74	0.0	-1.1004	0.026
204	79.	2472.	2393.	509.2	25459.59	10.6	7.558	2.1905	13.048	103.32	1.94	0.2346	-1.919
209	68.	68.											
210	46.	46.											
211	806.	806.											
212	3.	3.											
213	2.	2.											

A TOTAL NUMBER OF 1328. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0. GND. METRES

TOTAL INKED IN LINES = 82244.

TOTAL INVISIBLE LINES = 0.

TOTAL LINES GENERATED = 82244.

TOTAL DISTANCE GENERATED BY LINES = 800158.44 METRES AT GROUND SCALE
= 1600.317 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 108029.

NUMBER OF POINTS IN THE FILE = 85698.

NUMBER OF IGNORED CODES (0 OR >271) = 0.

NUMBER OF IGNORED RECORDS (0 OR >271) = 0.

FEATURE CODE DESCRIPTION

FEATURE FEATURE

28	TEXT	NAME / NUMBER, POSITION
59	LINE	BANK OF DOUBLE RIVER / STREAM
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
71	LINE	MEAN HIGH WATER (MHWS)
198	LINE	BANK OF TIDAL ESTUARY
199	LINE	CL TIDAL ESTUARY
200	LINE	TIDAL PART OF SINGLE STREAM
201	LINE	HWM - ESTUARY MOUTH
202	LINE	SWAMP / UNDERGROUND WATER ALIGNMENT
203	LINE	DRAINAGE AREA BOUNDARY
204	LINE	CL CANAL (WET)
209	POINT	ISOLATED WATER FEATURE
210	POINT	MOUTH OF WATER FEATURE
211	POINT	SOURCE OF WATER FEATURE
212	POINT	START OF DRAINAGE AREA
213	POINT	END OF DRAINAGE AREA

RECOVERY OF STATISTICS GENERATED FOR OS SHEET 50000

FREQUENCIES

1	START OF SHEET	1.
2	END OF SHEET	1.
3	END OF FILE	0.
4	START OF FEATURE	185.
5	END OF FEATURE	185.
6	NO ACTION (7 TRK)	196.
7	FEATURES (LINE)	179.
8	FEATURES (TEXT,SYMBOL)	6.
9	GRID SQUARE INDICATOR	238.
10	TEXT CLASSIFICATION	5.
11	CHARACTER CALLS	5.
12	NO OF ORIENTATIONS	185.
13	INVISIBLE LINE FLAG	0.
14	N/A	0.
15	DISTANCE CALLS	0.
16	N/A	0.
17	CONTOUR CALLS	0.

Sheet 202

CL Roads
(SE Quadrant)

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	SKEW	KURTOSIS	GROUND MAXIMUM	GROUND MINIMUM	LOGARITHMIC TRANSFORMATION	
28	5.	5.											
90	21.	351.	330.	272.3	13616.94	41.3	43.960	2.7259	9.353	308.06	2.00	-0.2384	1.294
93	2.	22.	20.	28.3	1415.04	70.8	48.730	0.5096	-0.821	162.05	2.83	0.0712	-0.020
97	152.	2349.	2197.	1662.0	83099.88	37.8	33.372	2.1933	7.338	294.44	0.0	-0.6430	2.427
118	4.	192.	188.	119.7	5984.16	31.8	30.410	2.8554	11.748	220.32	1.94	-0.3058	0.990
174	1.	1.											

A TOTAL NUMBER OF 21. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0. GND. METRES

TOTAL INKED IN LINES = 2735.

TOTAL INVISIBLE LINES = 0.

TOTAL LINES GENERATED = 2735.

TOTAL DISTANCE GENERATED BY LINES = 104084.31 METRES AT GROUND SCALE
= 208.169 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 4162.

NUMBER OF POINTS IN THE FILE = 2920.

NUMBER OF IGNORED CODES (0 OR >271) = 0.

NUMBER OF IGNORED RECORDS (0 OR >271) = 0.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
28	TEXT	NAME / NUMBER. POSITION
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
118	LINE	NATIONAL TRUST BOUNDARY (ALWAYS OPEN)
174	POINT	YOUTH HOSTEL

SHEET 50000

FREQUENCIES

1	START OF SHEET	1.
2	END OF SHEET	1.
3	END OF FILE	0.
4	START OF FEATURE	563.
5	END OF FEATURE	563.
6	NO ACTION (7 TRK)	113.
7	FEATURES (LINE)	541.
8	FEATURES (TEXT,SYMBOL)	22.
9	GRID SQUARE INDICATOR	828.
10	TEXT CLASSIFICATION	18.
11	CHARACTER CALLS	18.
12	NO OF ORIENTATIONS	563.
13	INVISIBLE LINE FLAG	0.
14	N/A	0.
15	DISTANCE CALLS	0.
16	N/A	0.
17	CONTOUR CALLS	0.

Sheet 202

CL Roads
(SW Quadrant)

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	SKEW	KURTOSIS	GROUND MAXIMUM	GROUND MINIMUM	LOGARITHMIC TRANSFORMATION SKEW	LOGARITHMIC TRANSFORMATION KURTOSIS
28	18.	18.											
90	65.	797.	732.	690.7	34534.34	47.2	36.755	1.7991	4.834	236.01	2.00	-0.2470	2.317
93	38.	504.	466.	417.6	20879.25	44.8	40.839	2.2499	6.921	260.50	2.00	-0.2339	1.827
96	42.	424.	382.	311.4	15572.39	40.8	33.601	1.7695	4.465	221.45	2.00	-0.3493	2.174
97	372.	7788.	7416.	5277.1	263852.88	35.6	32.011	2.4051	8.515	268.70	0.0	-0.6303	1.898
112	1.	1.											
118	17.	1825.	1808.	764.9	38244.14	21.2	28.416	6.0934	59.814	451.20	0.0	-0.6056	0.554
140	7.	24.	17.	9.1	454.78	26.8	22.712	1.2260	0.151	82.46	4.47	-1.5498	0.438
149	1.	1.											
174	2.	2.											

A TOTAL NUMBER OF 87. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0. GND. METRES

TOTAL INKED IN LINES = 10821.

TOTAL INVISIBLE LINES = 0.

TOTAL LINES GENERATED = 10821.

TOTAL DISTANCE GENERATED BY LINES = 373281.31 METRES AT GROUND SCALE
= 746.563 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 15370.

NUMBER OF POINTS IN THE FILE = 11384.

NUMBER OF IGNORED CODES (0 OR >271) = 0.

NUMBER OF IGNORED RECORDS (0 OR >271) = 0.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
28	TEXT	NAME / NUMBER, POSITION
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
		SINGLE CARRIAGEWAY MORE 4 M
		SINGLE CARRIAGEWAY LESS 4 M

118	LINE	NATIONAL TRUST BOUNDARY (ALWAYS OPEN)
140	LINE	ROAD UNDER BRIDGE
149	POINT	BUS OR COACH STATION
174	POINT	YOUTH HOSTEL

FEATURES INCLUDED

ODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	------GROUND------ MAXIMUM	MINIMUM
28	29.	29.									
89	2.	13.	11.	3.9	195.99	17.8	8.503	0.0085	-0.457	34.06	2.00
90	70.	924.	854.	790.2	39510.73	46.3	40.131	2.4104	9.933	383.56	1.94
93	119.	1343.	1224.	1287.8	64388.80	52.6	47.723	2.1186	5.953	354.62	1.94
96	74.	657.	583.	651.9	32597.09	55.9	47.231	1.6694	3.417	301.12	0.06
97	679.	12354.	11675.	8923.2	446160.69	38.2	34.940	2.4152	9.000	396.19	0.0
18	3.	301.	298.	286.2	14307.77	48.0	52.539	2.5107	7.929	379.82	0.0
19	1.	35.	34.	27.4	1368.17	40.2	62.282	2.0670	3.428	261.74	2.00
29	2.	2.									
40	29.	58.	29.	42.5	2126.36	73.3	22.209	0.4925	1.128	139.86	30.99
55	2.	2.									
74	1.	1.									
21	18.	86.	68.	85.1	4255.59	62.6	60.346	1.4981	1.915	286.00	4.00
22	40.	324.	284.	481.6	24082.33	84.8	59.535	1.3810	2.924	357.77	2.00

OTAL NUMBER OF 174. CHARACTERS EXIST

AL DISTANCE OF -15 CODED LINES = 0. GND. METRES

AL INKED IN LINES = 15060.

AL INVISIBLE LINES = 0.

AL LINES GENERATED = 15060.

AL DISTANCE GENERATED BY LINES = 628626.06 METRES AT GROUND SCALE
= 1257.252 CMS AT MAP SCALE

MBER OF RECORDS IN THE FILE = 23477.

MBER OF POINTS IN THE FILE = 16129.

MBER OF IGNORED CODES (0 OR >271) = 0.

MBER OF IGNORED RECORDS (0 OR >271) = 0.

ATURE CODE DESCRIPTION

EATURE CODE	FEATURE TYPE	DESCRIPTION
28	TEXT	NAME / NUMBER, POSITION
89	LINE	CL TRUNK/MAIN DUAL CARRIAGEWAY
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
18	LINE	NATIONAL TRUST BOUNDARY (ALWAYS OPEN)
19	LINE	NATIONAL TRUST BOUNDARY (OPENING RESTRICTED)
29	POINT	OTHER RAILWAY STATION (IN USE)
40	LINE	ROAD UNDER BRIDGE
55	POINT	STANDARD ROUNDABOUT
74	POINT	YOUTH HOSTEL
21	LINE	CL TRUNK ROAD (SINGLE CARRIAGEWAY)
22	LINE	CL TRUNK ROAD (DUAL CARRIAGEWAY)

FREQUENCIES

1	START OF SHEET	1.
2	END OF SHEET	1.
3	END OF FILE	0.
4	START OF FEATURE	976.
5	END OF FEATURE	976.
6	NO ACTION (7 TRK)	148.
7	FEATURES (LINE)	939.
8	FEATURES (TEXT,SYMBOL)	37.
9	GRID SQUARE INDICATOR	1270.
10	TEXT CLASSIFICATION	20.
11	CHARACTER CALLS	20.
12	NO OF ORIENTATIONS	976.
13	INVISIBLE LINE FLAG	0.
14	N/A	0.
15	DISTANCE CALLS	0.
16	N/A	0.
17	CONTOUR CALLS	0.

Sheet 202

CL Roads
(NE Quadrant)

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	------GROUND------ MAXIMUM	MINIMUM
28	20.	20.									
89	5.	44.	39.	42.5	2122.51	54.4	43.666	1.8573	3.749	217.51	6.32
90	171.	1663.	1492.	1506.3	75315.56	50.5	47.654	2.5567	9.429	396.96	0.0
93	73.	637.	564.	622.6	31128.48	55.2	50.849	2.0057	4.974	320.76	1.94
96	122.	1807.	1685.	1344.5	67226.88	39.9	39.409	2.9805	15.414	454.13	0.0
97	546.	7977.	7431.	6110.2	305508.56	41.1	37.545	2.2018	6.958	345.48	0.0
112	1.	1.									
118	1.	10.	9.	19.0	951.20	105.7	85.792	0.7943	-0.593	285.68	25.61
129	7.	7.									
140	21.	43.	22.	24.3	1216.21	55.3	17.410	-0.5340	-0.996	82.40	24.38
149	5.	5.									
155	3.	3.									
174	1.	1.									

A TOTAL NUMBER OF 99. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0. GND. METRES

TOTAL INKED IN LINES = 11242.

TOTAL INVISIBLE LINES = 0.

TOTAL LINES GENERATED = 11242.

TOTAL DISTANCE GENERATED BY LINES = 483200.69 METRES AT GROUND SCALE
= 966.401 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 18748.

NUMBER OF POINTS IN THE FILE = 12218.

NUMBER OF IGNORED CODES (0 OR >271) = 0.

NUMBER OF IGNORED RECORDS (0 OR >271) = 0.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
		NAME & NUMBER POSITION

93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
112	POINT	LEADER ARROW 1/50000
118	LINE	NATIONAL TRUST BOUNDARY (ALWAYS OPEN)
129	POINT	OTHER RAILWAY STATION (IN USE)
140	LINE	ROAD UNDER BRIDGE
149	POINT	BUS OR COACH STATION
155	POINT	STANDARD ROUNDABOUT
174	POINT	YOUTH HOSTEL

RECOVERY OF STATISTICS GENERATED FOR OS SHEET 50000

FREQUENCIES

1	START OF SHEET	1.
2	END OF SHEET	1.
3	END OF FILE	0.
4	START OF FEATURE	51.
5	END OF FEATURE	51.
6	NO ACTION (7 TRK)	152.
7	FEATURES (LINE)	51.
8	FEATURES (TEXT,SYMBOL)	0.
9	GRID SQUARE INDICATOR	79.
10	TEXT CLASSIFICATION	0.
11	CHARACTER CALLS	0.
12	NO OF ORIENTATIONS	51.
13	INVISIBLE LINE FLAG	0.
14	N/A	0.
15	DISTANCE CALLS	0.
16	N/A	0.
17	CONTOUR CALLS	0.

Sheet 202

CL Boundaries
(SE Quadrant)

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	------GROUND------ MAXIMUM	MINIMUM
7	12.	656.	644.	417.7	20884.30	32.4	31.026	2.0702	3.717	167.48	2.83
9	39.	840.	801.	508.8	25438.70	31.8	36.910	2.7176	7.860	236.81	2.00

A TOTAL NUMBER OF 0. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0. GND. METRES

TOTAL INKED IN LINES = 1445.

TOTAL INVISIBLE LINES = 0.

TOTAL LINES GENERATED = 1445.

TOTAL DISTANCE GENERATED BY LINES = 46321.18 METRES AT GROUND SCALE
= 92.642 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 1864.

NUMBER OF POINTS IN THE FILE = 1496.

NUMBER OF IGNORED CODES (0 OR >271) = 0.

NUMBER OF IGNORED RECORDS (0 OR >271) = 0.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
7	LINE	BOUNDARY - PARISH OR COMMUNITY
9	LINE	BOUNDARY - COUNTY OR REGION

RECOVERY OF STATISTICS GENERATED FOR OS SHEET 50000

FREQUENCIES

1	START OF SHEET	1.
2	END OF SHEET	1.
3	END OF FILE	0.
4	START OF FEATURE	222.
5	END OF FEATURE	222.
6	NO ACTION (7 TRK)	161.
7	FEATURES (LINE)	222.
8	FEATURES (TEXT,SYMBOL)	0.
9	GRID SQUARE INDICATOR	360.
10	TEXT CLASSIFICATION	0.
11	CHARACTER CALLS	0.
12	NO OF ORIENTATIONS	222.
13	INVISIBLE LINE FLAG	0.
14	N/A	0.
15	DISTANCE CALLS	0.
16	N/A	0.
17	CONTOUR CALLS	0.

Sheet 202

CL Boundaries
(SW Quadrant)

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	SKEW	KURTOSIS	GROUND MAXIMUM	GROUND MINIMUM
7	66.	4807.	4741.	3020.2	151008.25	31.9	31.608	2.5004	7.034	228.22	0.0
9	156.	4812.	4656.	1181.1	59054.13	12.7	15.230	5.9234	51.612	217.82	0.0

A TOTAL NUMBER OF 0. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0. GND. METRES

TOTAL INKED IN LINES = 9397.

TOTAL INVISIBLE LINES = 0.

TOTAL LINES GENERATED = 9397.

TOTAL DISTANCE GENERATED BY LINES = 209865.38 METRES AT GROUND SCALE
= 419.730 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 11233.

NUMBER OF POINTS IN THE FILE = 9619.

NUMBER OF IGNORED CODES (0 OR >271) = 0.

NUMBER OF IGNORED RECORDS (0 OR >271) = 0.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
7	LINE	BOUNDARY - PARISH OR COMMUNITY
9	LINE	BOUNDARY - COUNTY OR REGION

RECOVERY OF STATISTICS GENERATED FOR OS SHEET 50000

FREQUENCIES

1	START OF SHEET	1.
2	END OF SHEET	1.
3	END OF FILE	0.
4	START OF FEATURE	125.
5	END OF FEATURE	125.
6	NO ACTION (7 TRK)	17.
7	FEATURES (LINE)	125.
8	FEATURES (TEXT,SYMBOL)	0.
9	GRID SQUARE INDICATOR	300.
10	TEXT CLASSIFICATION	0.
11	CHARACTER CALLS	0.
12	NO OF ORIENTATIONS	125.
13	INVISIBLE LINE FLAG	0.
14	N/A	0.
15	DISTANCE CALLS	0.
16	N/A	0.
17	CONTOUR CALLS	0.

Sheet 202

CL Boundaries
(NW Quadrant)

FEATURES INCLUDED

E	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	SKEW	KURTOSIS	GROUND MAXIMUM	GROUND MINIMUM
	105.	6484.	6379.	4560.3	228012.44	35.7	33.322	2.2600	6.454	343.10	2.00
	20.	522.	502.	763.9	38193.43	76.1	62.889	1.5337	3.149	390.46	2.00

AL NUMBER OF 0. CHARACTERS EXIST

DISTANCE OF -15 CODED LINES = 0. GND. METRES

INKED IN LINES = 6881.

INVISIBLE LINES = 0.

LINES GENERATED = 6881.

DISTANCE GENERATED BY LINES = 266048.88 METRES AT GROUND SCALE
= 532.097 CMS AT MAP SCALE

ER OF RECORDS IN THE FILE = 8112.

ER OF POINTS IN THE FILE = 7006.

ER OF IGNORED CODES (0 OR >271) = 0.

ER OF IGNORED RECORDS (0 OR >271) = 0.

URE CODE DESCRIPTION

TURE DE	FEATURE TYPE	DESCRIPTION
	LINE	BOUNDARY - PARISH OR COMMUNITY
	LINE	BOUNDARY - DISTRICT

COVERY OF STATISTICS GENERATED FOR OS SHEET 50000

FREQUENCIES

	START OF SHEET	1.
	END OF SHEET	1.
	END OF FILE	0.
	START OF FEATURE	102.
	END OF FEATURE	102.
	NO ACTION (7 TRK)	213.
	FEATURES (LINE)	102.
	FEATURES (TEXT,SYMBOL)	0.
0	GRID SQUARE INDICATOR	209.
1	TEXT CLASSIFICATION	0.
	CHARACTER CALLS	0.
2	NO OF ORIENTATIONS	102.
3	INVISIBLE LINE FLAG	0.
4	N/A	0.
5	DISTANCE CALLS	0.
6	N/A	0.
7	CONTOUR CALLS	0.

Sheet 202

CL Boundaries
(NE Quadrant)

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	SKEW	KURTOSIS	GROUND MAXIMUM	GROUND MINIMUM
7	50.	2633.	2583.	2152.5	107626.31	41.7	27.479	3.0568	17.590	335.26	2.00
8	14.	774.	760.	924.7	46232.76	60.8	37.979	2.1512	7.712	324.00	2.00
9	38.	983.	945.	822.1	41104.05	43.5	246.783	13.3996	182.884	3928.63	0.0

A TOTAL NUMBER OF 0. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0. GND. METRES

TOTAL INKED IN LINES = 4288.

TOTAL INVISIBLE LINES = 0.

TOTAL LINES GENERATED = 4288.

TOTAL DISTANCE GENERATED BY LINES = 194880.13 METRES AT GROUND SCALE
= 389.760 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 5222.

NUMBER OF POINTS IN THE FILE = 4390.

NUMBER OF IGNORED CODES (0 OR >271) = 0.

NUMBER OF IGNORED RECORDS (0 OR >271) = 0.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
9	LINE	BOUNDARY - COUNTY OR REGION

CURRENT STATUS OF THE O.S. DIGITAL DATA STATISTICS AFTER 9 SHEET ANALYSES ON THE 50000. DATA

FREQUENCIES

1	START OF SHEET	9.
2	END OF SHEET	9.
3	END OF FILE	0.
4	START OF FEATURE	6747.
5	END OF FEATURE	6747.
6	NO ACTION (7 TRK)	1155.
7	FEATURES (LINE)	5583.
8	FEATURES (TEXT,SYMBOL)	1164.
9	GRID SQUARE INDICATOR	8690.
10	TEXT CLASSIFICATION	212.
11	CHARACTER CALLS	212.
12	NO OF ORIENTATIONS	6747.
13	INVISIBLE LINE FLAG	0.
14	N/A	0.
15	DISTANCE CALLS	0.
16	N/A	0.
17	CONTOUR CALLS	0.

FEATURES INCLUDED
==========

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	------GROUND------ MAXIMUM	MINIMUM
7	233.	14580.	14347.	10150.6	507531.38	35.4	31.851	2.3748	7.578	343.10	0.0
8	34.	1296.	1262.	1688.5	84426.13	66.9	49.953	2.0085	6.078	390.46	2.00
9	233.	6635.	6402.	2511.9	125596.88	19.6	97.253	33.0576	1166.781	3928.63	0.0
28	212.	212.									
59	47.	6221.	6174.	1232.7	61634.44	10.0	7.006	3.6113	34.121	122.47	0.0
62	95.	2629.	2534.	366.2	18308.86	7.2	8.728	13.0275	344.256	272.23	0.0
64	1122.	38109.	36987.	6558.5	327923.63	8.9	6.206	4.0792	57.605	192.08	0.0
66	136.	3105.	2969.	629.8	31489.71	10.6	6.938	1.2798	2.572	53.91	0.0
71	35.	6267.	6232.	897.8	44891.96	7.2	8.053	9.3843	158.955	232.00	0.0
89	7.	57.	50.	46.4	2318.50	46.4	41.570	2.0836	4.973	217.51	2.00
90	327.	3735.	3408.	3259.6	162977.56	47.8	43.375	2.4944	9.574	396.96	0.0
93	232.	2506.	2274.	2356.2	117811.50	51.8	47.363	2.1145	5.866	354.62	1.94
96	238.	2888.	2650.	2307.9	115396.38	43.5	41.025	2.4732	10.166	454.13	0.0
97	1749.	30468.	28719.	21972.4	1098621.00	38.3	34.852	2.3498	8.273	396.19	0.0
112	2.	2.									
118	25.	2328.	2303.	1189.7	59487.25	25.8	34.633	4.5982	31.544	451.20	0.0
119	1.	35.	34.	27.4	1368.17	40.2	62.282	2.0670	3.428	261.74	2.00
129	9.	9.									
140	57.	125.	68.	75.9	3797.35	55.8	27.774	0.0468	-0.227	139.86	4.47
149	6.	6.									
155	5.	5.									
174	5.	5.									
198	65.	7221.	7156.	1284.7	64233.54	9.0	6.755	2.2494	10.542	79.92	0.0
199	70.	1476.	1406.	434.8	21742.13	15.5	11.497	1.8307	5.186	93.34	1.94
200	3.	132.	129.	22.9	1147.30	8.9	5.537	1.3257	3.033	34.93	2.00
201	4.	8.	4.	67.3	3363.67	840.9	542.586	0.5271	-1.858	1609.22	398.90
202	721.	13603.	12882.	2694.1	134704.69	10.5	13.672	42.6333	2606.732	950.02	0.0
203	12.	3390.	3378.	1336.2	66810.75	19.8	15.662	3.7314	35.793	264.74	0.0
204	79.	2472.	2393.	509.2	25459.59	10.6	7.558	2.1905	13.048	103.32	1.94
209	68.	68.									
210	46.	46.									
211	806.	806.									
212	3.	3.									
213	2.	2.									
221	18.	86.	68.	85.1	4255.59	62.6	60.346	1.4981	1.915	286.00	4.00
222	40.	324.	284.	481.6	24082.33	84.8	59.535	1.3810	2.924	357.77	2.00

A TOTAL NUMBER OF 1709. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0. GND. METRES

TOTAL INKED IN LINES = 144113.

TOTAL INVISIBLE LINES = 0.

TOTAL LINES GENERATED = 144113.

TOTAL DISTANCE GENERATED BY LINES = 3106464.00 METRES AT GROUND SCALE
= 6212.922 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE = 196217.

NUMBER OF POINTS IN THE FILE = 150860.

NUMBER OF IGNORED CODES (0 OR >271) = 0.

NUMBER OF IGNORED RECORDS (0 OR >271) = 0.

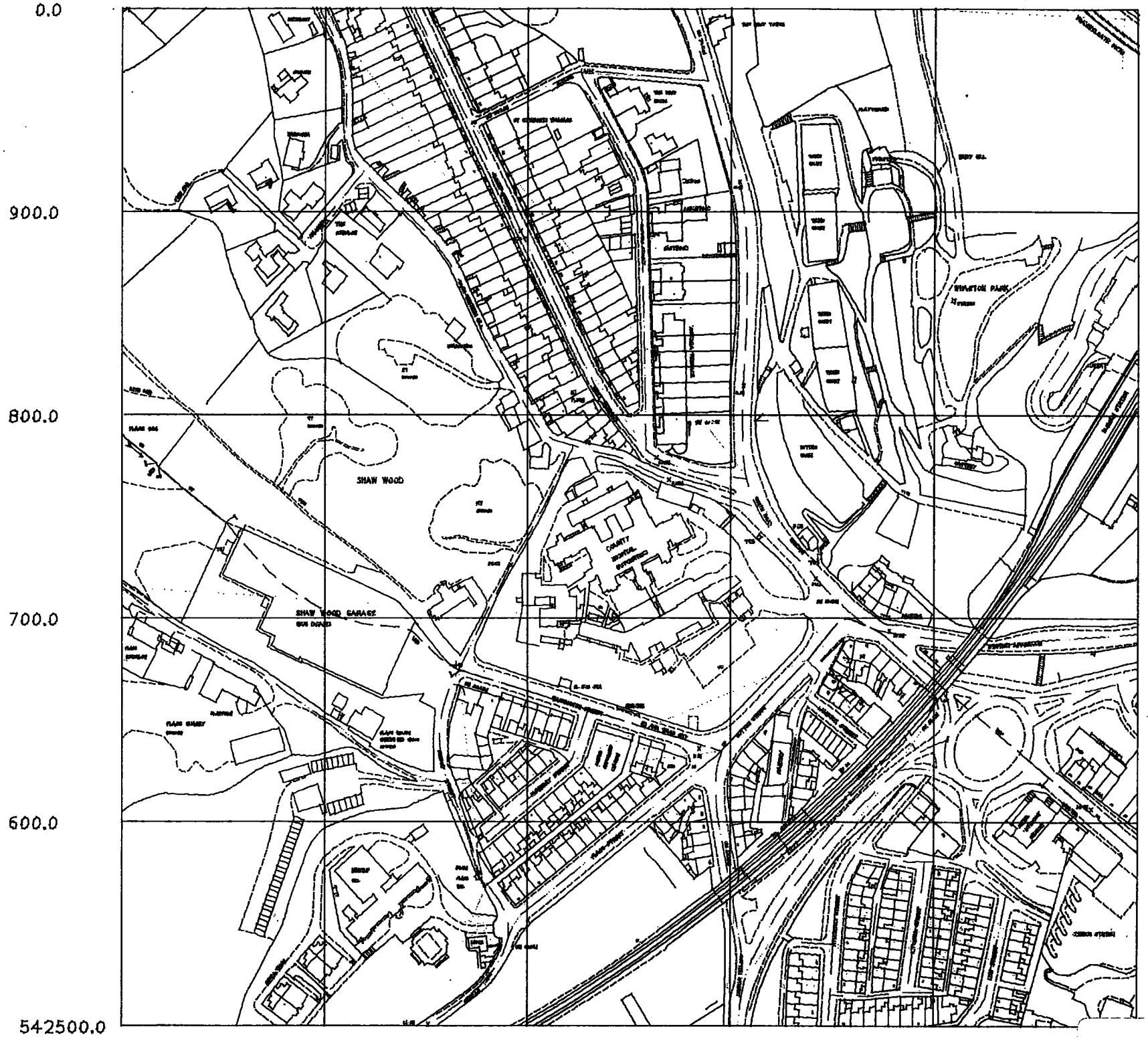
FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
9	LINE	BOUNDARY - COUNTY OR REGION
28	TEXT	NAME / NUMBER, POSITION
59	LINE	BANK OF DOUBLE RIVER / STREAM
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
71	LINE	MEAN HIGH WATER (MHWS)
89	LINE	CL TRUNK/MAIN DUAL CARRIAGEWAY
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
112	POINT	LEADER ARROW 1/50000
118	LINE	NATIONAL TRUST BOUNDARY (ALWAYS OPEN)
119	LINE	NATIONAL TRUST BOUNDARY (OPENING RESTRICTED)
129	POINT	OTHER RAILWAY STATION (IN USE)
140	LINE	ROAD UNDER BRIDGE
149	POINT	BUS OR COACH STATION
155	POINT	STANDARD ROUNDABOUT
174	POINT	YOUTH HOSTEL
198	LINE	BANK OF TIDAL ESTUARY
199	LINE	CL TIDAL ESTUARY
200	LINE	TIDAL PART OF SINGLE STREAM
201	LINE	HWM - ESTUARY MOUTH
202	LINE	SWAMP / UNDERGROUND WATER ALIGNMENT
203	LINE	DRAINAGE AREA BOUNDARY
204	LINE	CL CANAL (WET)
209	POINT	ISOLATED WATER FEATURE
210	POINT	MOUTH OF WATER FEATURE
211	POINT	SOURCE OF WATER FEATURE
212	POINT	START OF DRAINAGE AREA
213	POINT	END OF DRAINAGE AREA
221	LINE	CL TRUNK ROAD (SINGLE CARRIAGEWAY)
222	LINE	CL TRUNK ROAD (DUAL CARRIAGEWAY)

A TOTAL OF 9 MAP SHEETS HAVE BEEN PROCESSED

END OF STATUS RUN --- (07-20-79)

```
 AAAAAAAAAA    NN          NN  NN          NN  EEEEEEEEEEEE  XX          XX          7777777777777
AAAAAAAAAAAA   NNN         NN  NNN         NN  EEEEEEEEEEEE  XX          XX          77777777777
AA          AA NNNN        NN  NNNN        NN  EE             XX        XX          77        77
AA          AA NN NN       NN  NN NN       NN  EE               XX    XX                    77
AA          AA NN  NN      NN  NN  NN      NN  EE               XX  XX                     77
AAAAAAAAAAAAA  NN   NN     NN  NN   NN     NN  EEEEEEEE           XXXX                     77
AAAAAAAAAAAAA  NN    NN    NN  NN    NN    NN  EEEEEEEE           XXXX                     77
AA          AA NN     NN   NN  NN     NN   NN  EE               XX  XX                     77
AA          AA NN      NNNNN  NN      NNNNN  EE              XX      XX                    77
AA          AA NN       NNN   NN       NNN   EE              XX      XX                    77
AA          AA NN         N   NN         N   EEEEEEEEEEEE  XX          XX                77
AA          AA NN             NN             EEEEEEEEEEEE  XX          XX                77
```



0.0

900.0

800.0

700.0

600.0

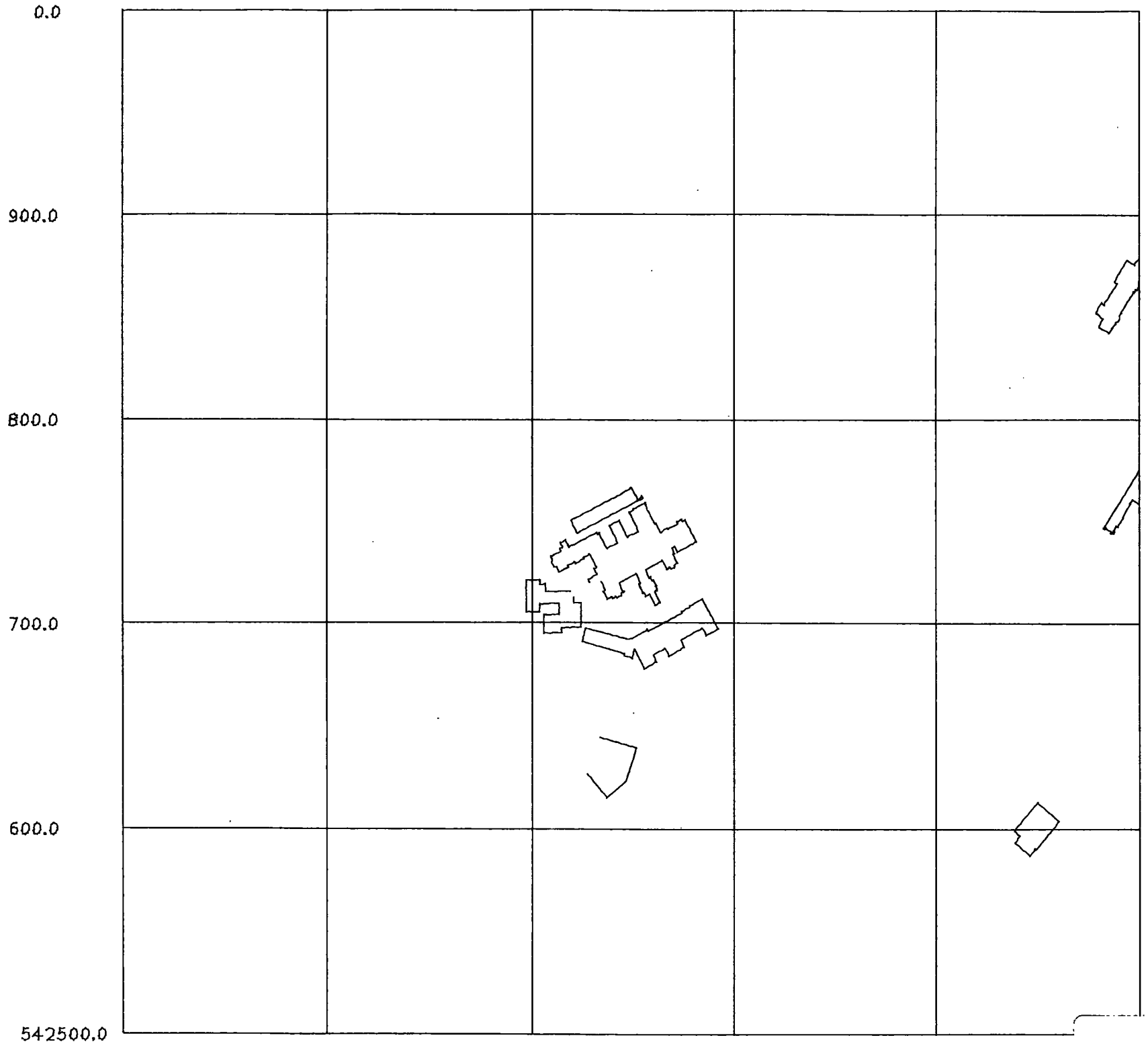
542500.0

426500.0 600.0 700.0 800.0 900.0

Complete Map Sheet

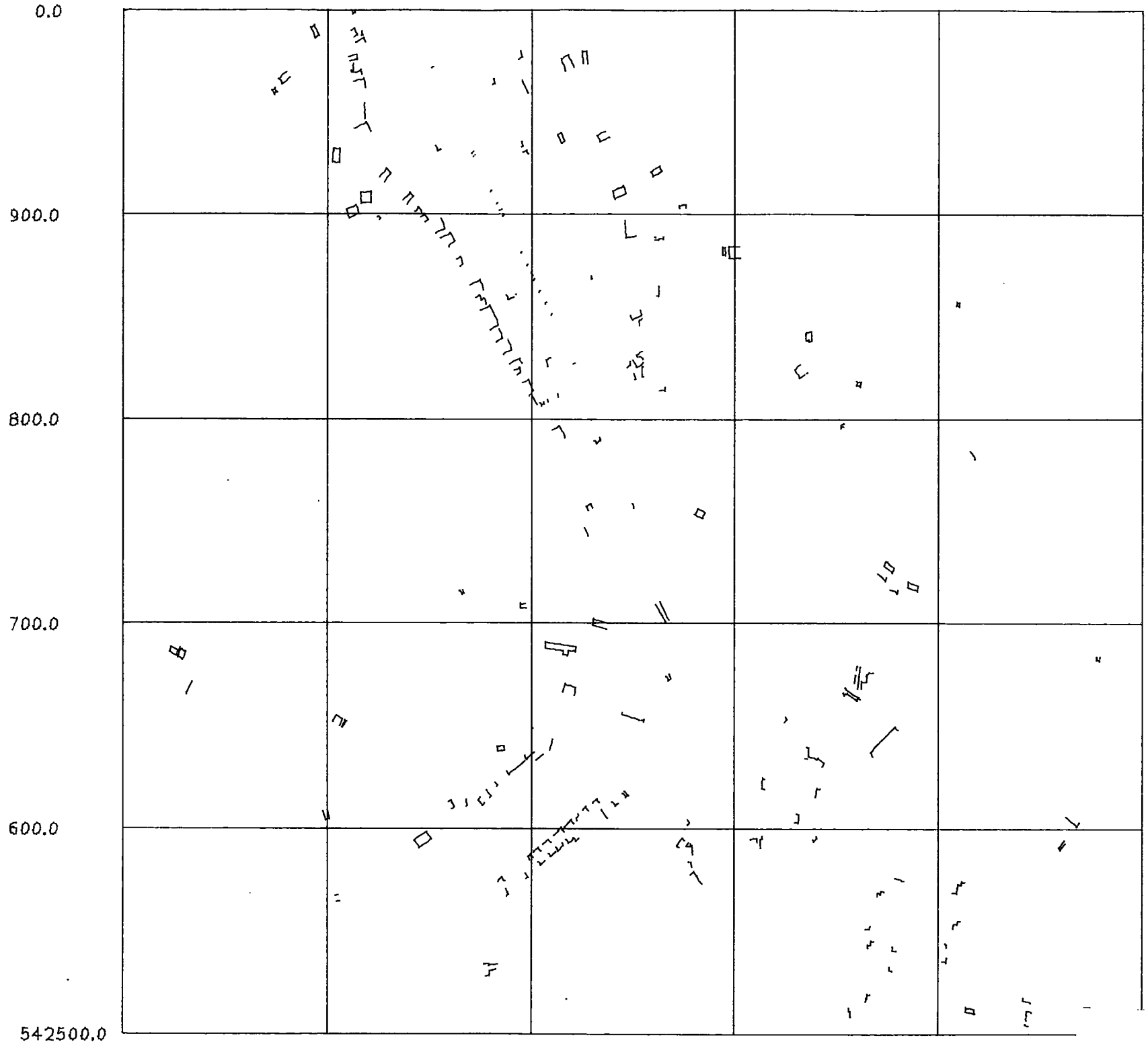
NZ 2642NE

All Features



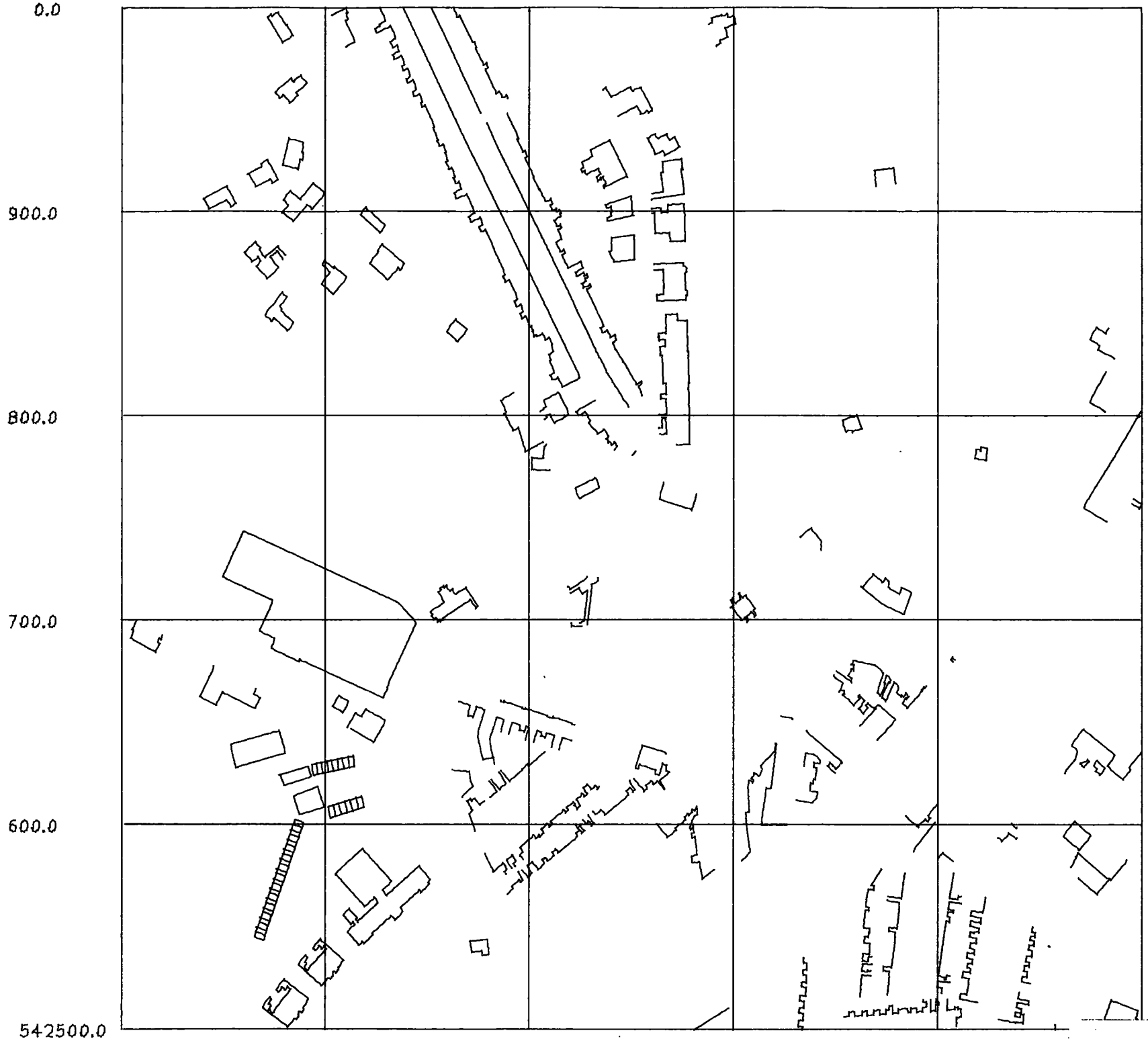
Feature Code 1

Building - Public



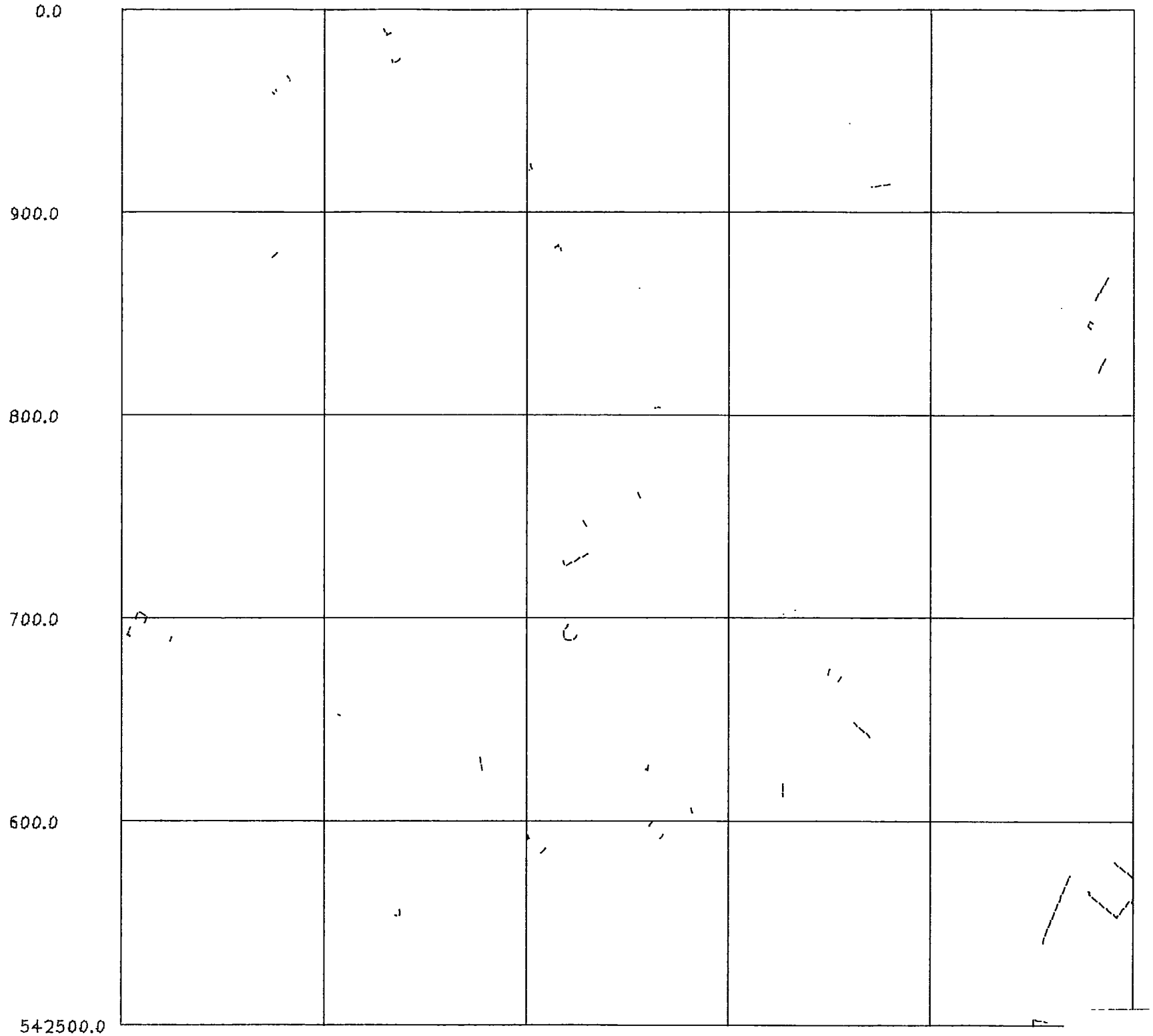
Feature Code 2

Building - Minor



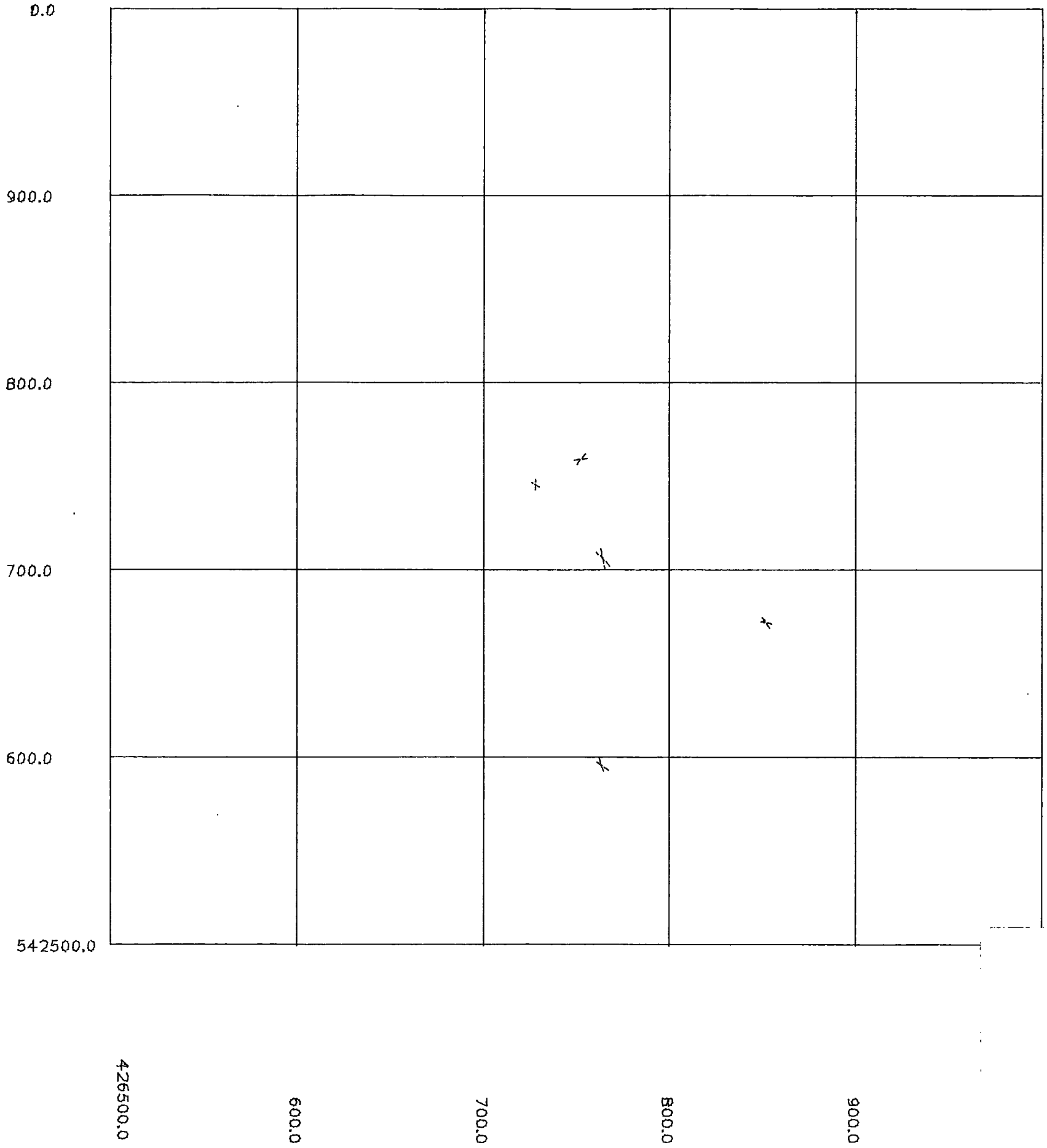
Feature Code 3

Building - Other



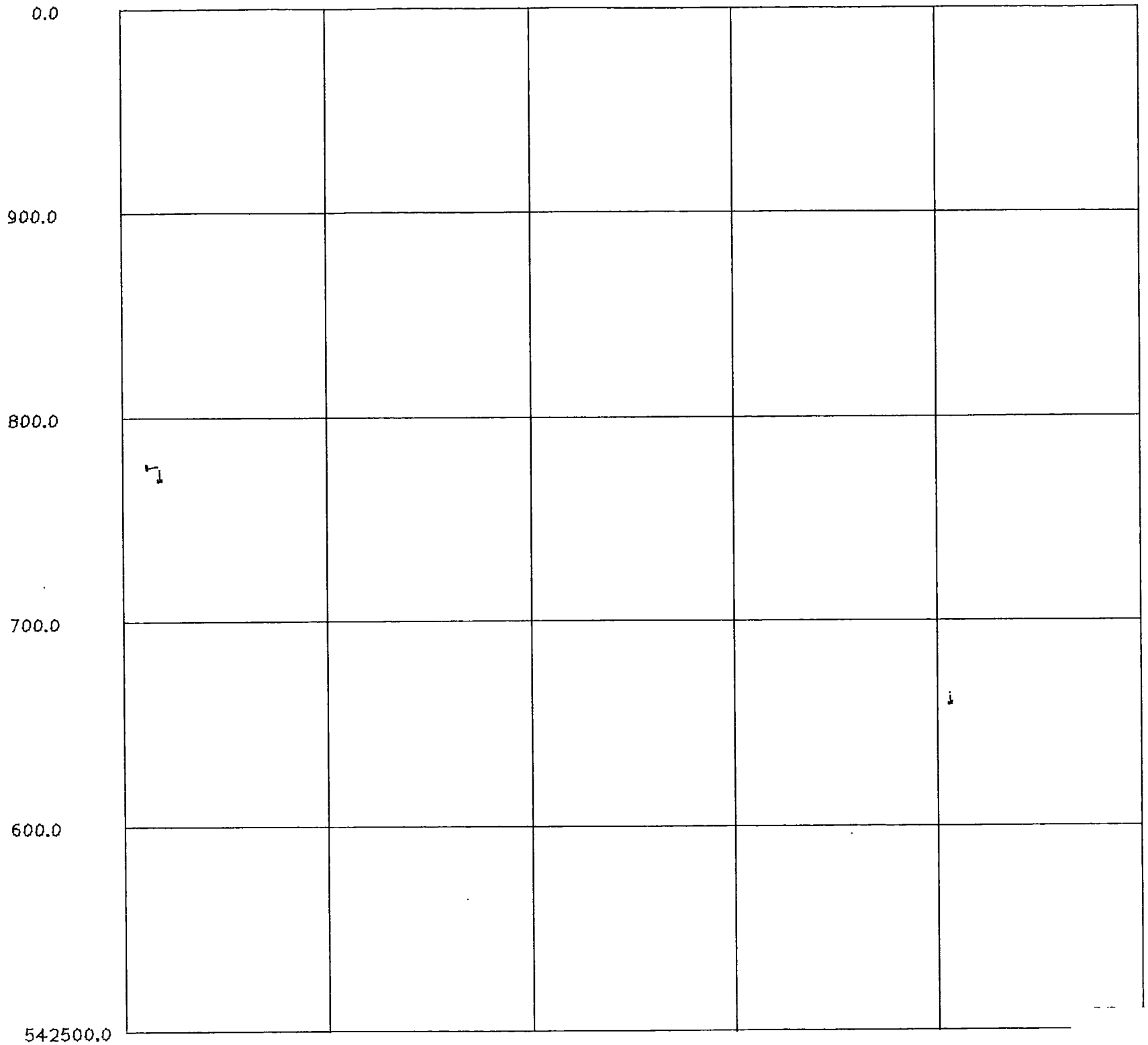
Feature Code 4

Building - Open sided



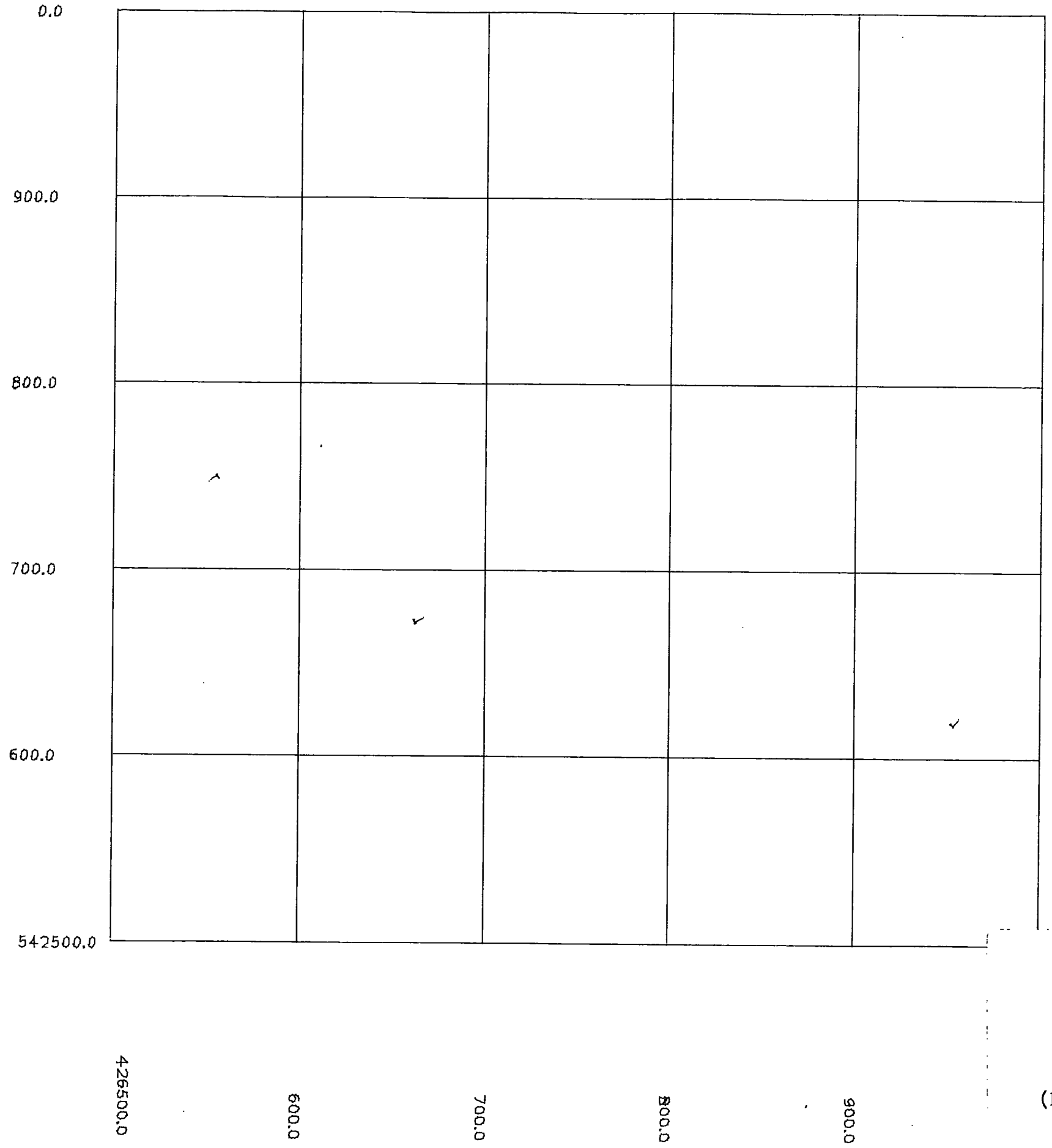
Feature Code 6

Archway Symbol



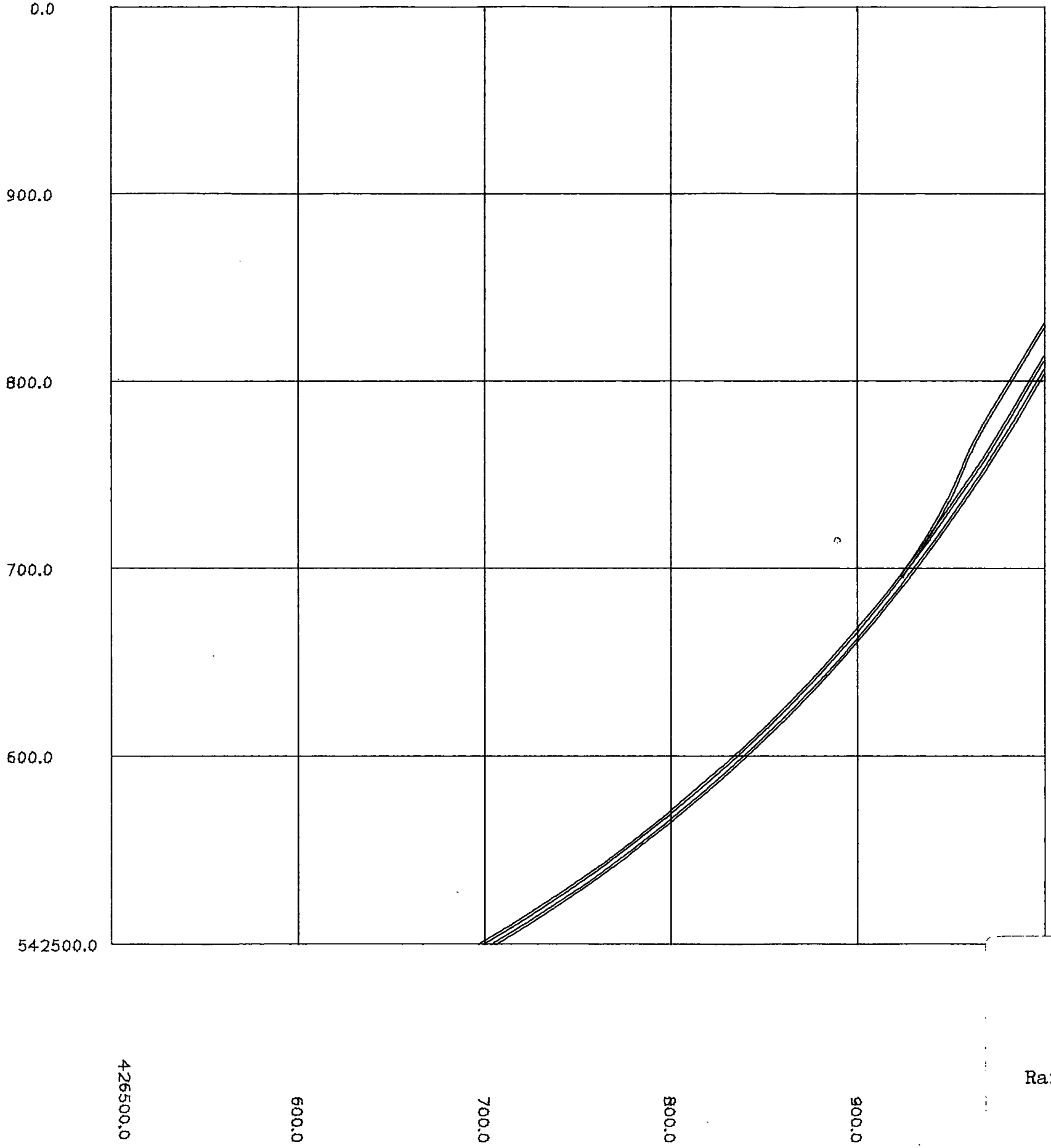
Feature Code 12

Boundary
(mereing symbol full)



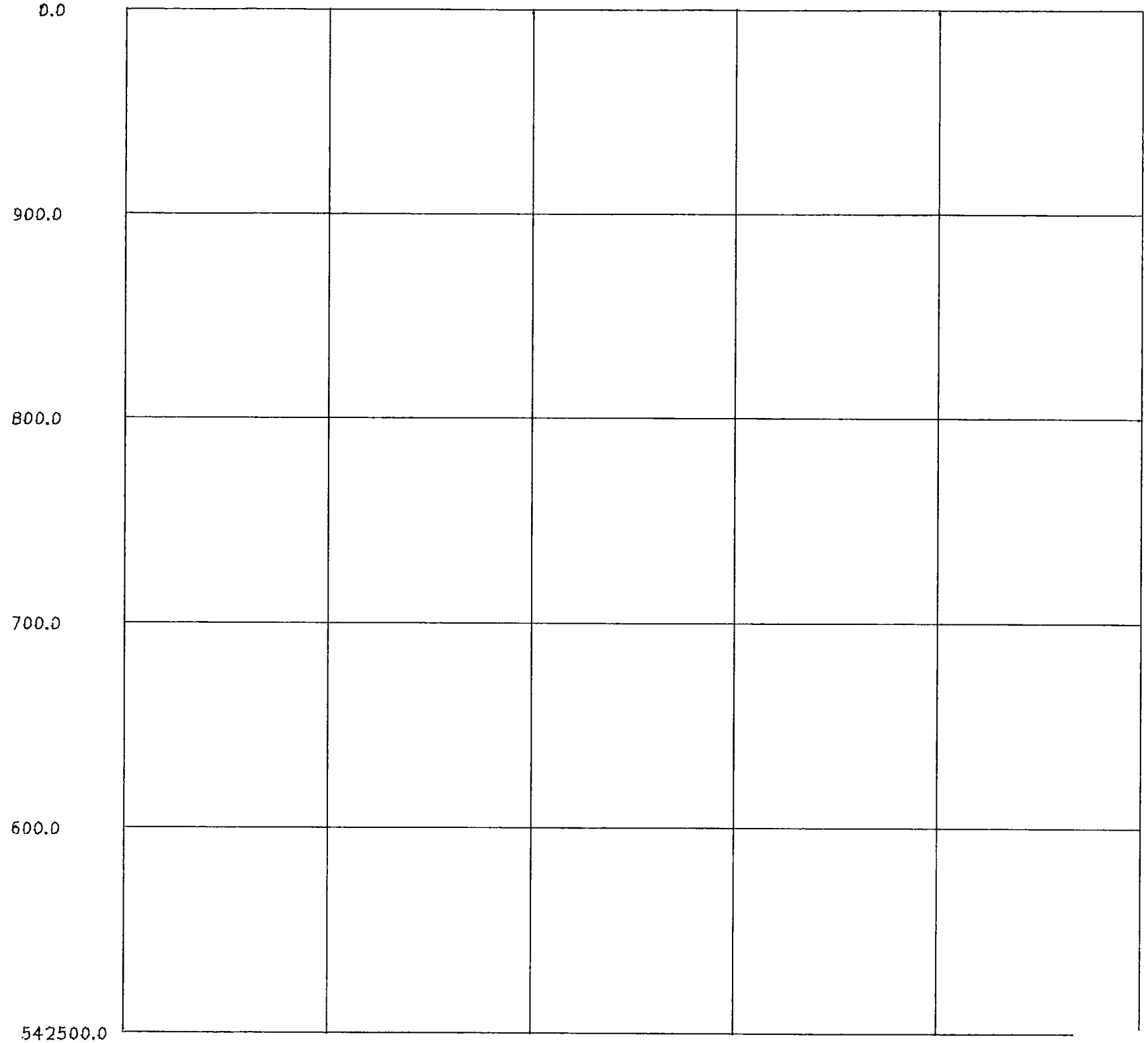
Feature Code 13

Boundary
(Mereing Symbol Half)



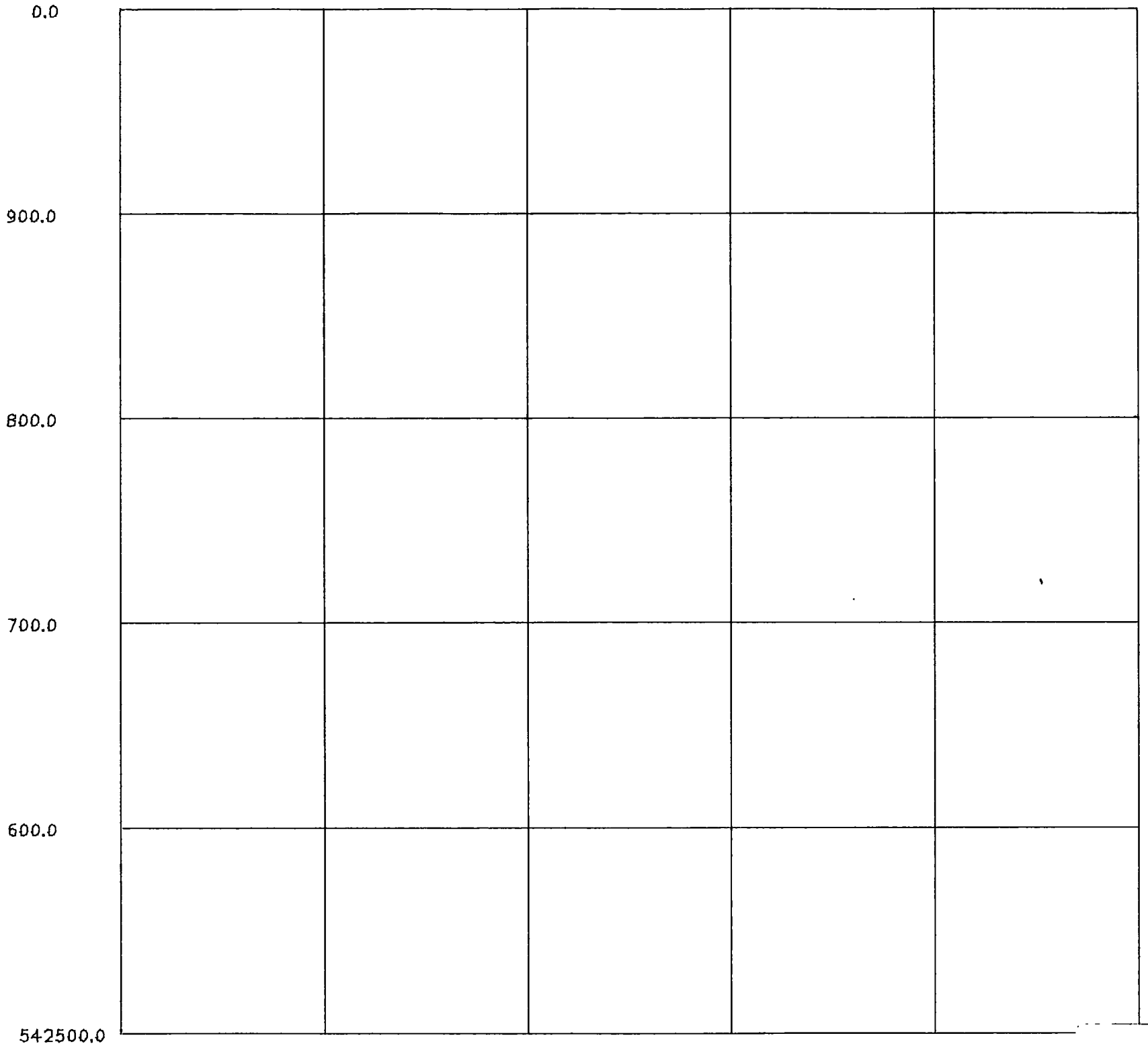
Feature Code 15

Railway - Standard guage



Feature Code 17

Boundary - General

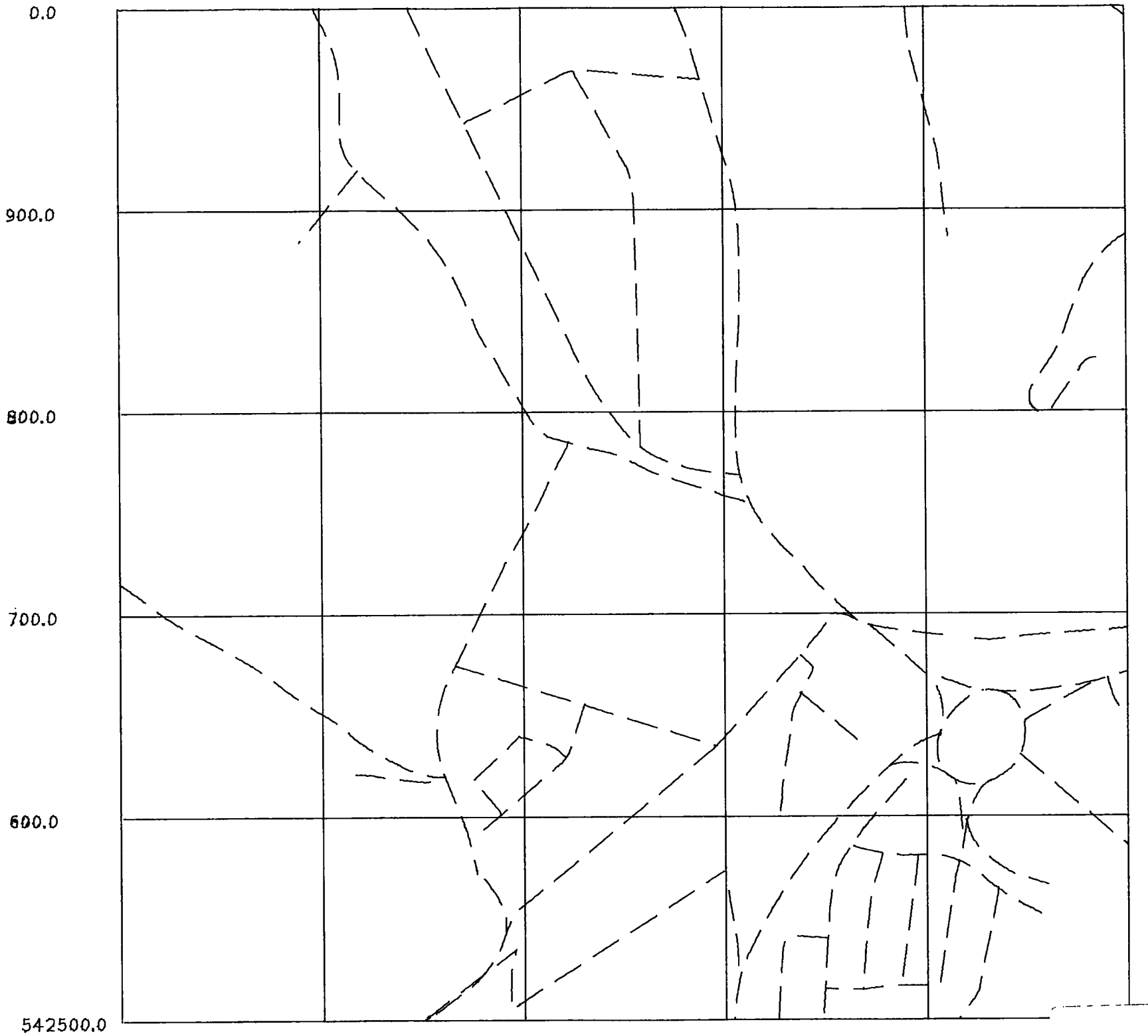


Feature Code 20

Railway - Switch

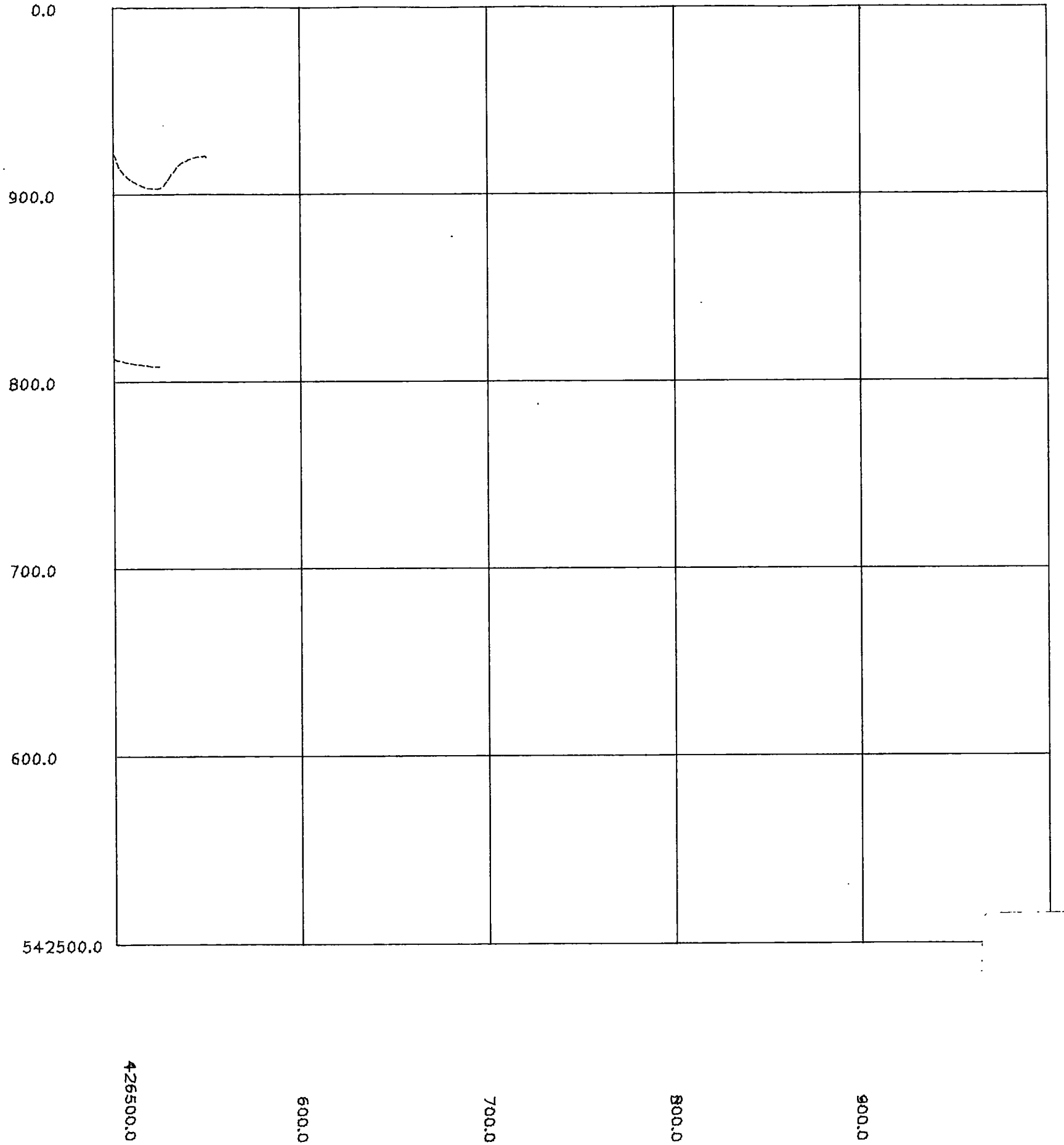
Feature Code 21

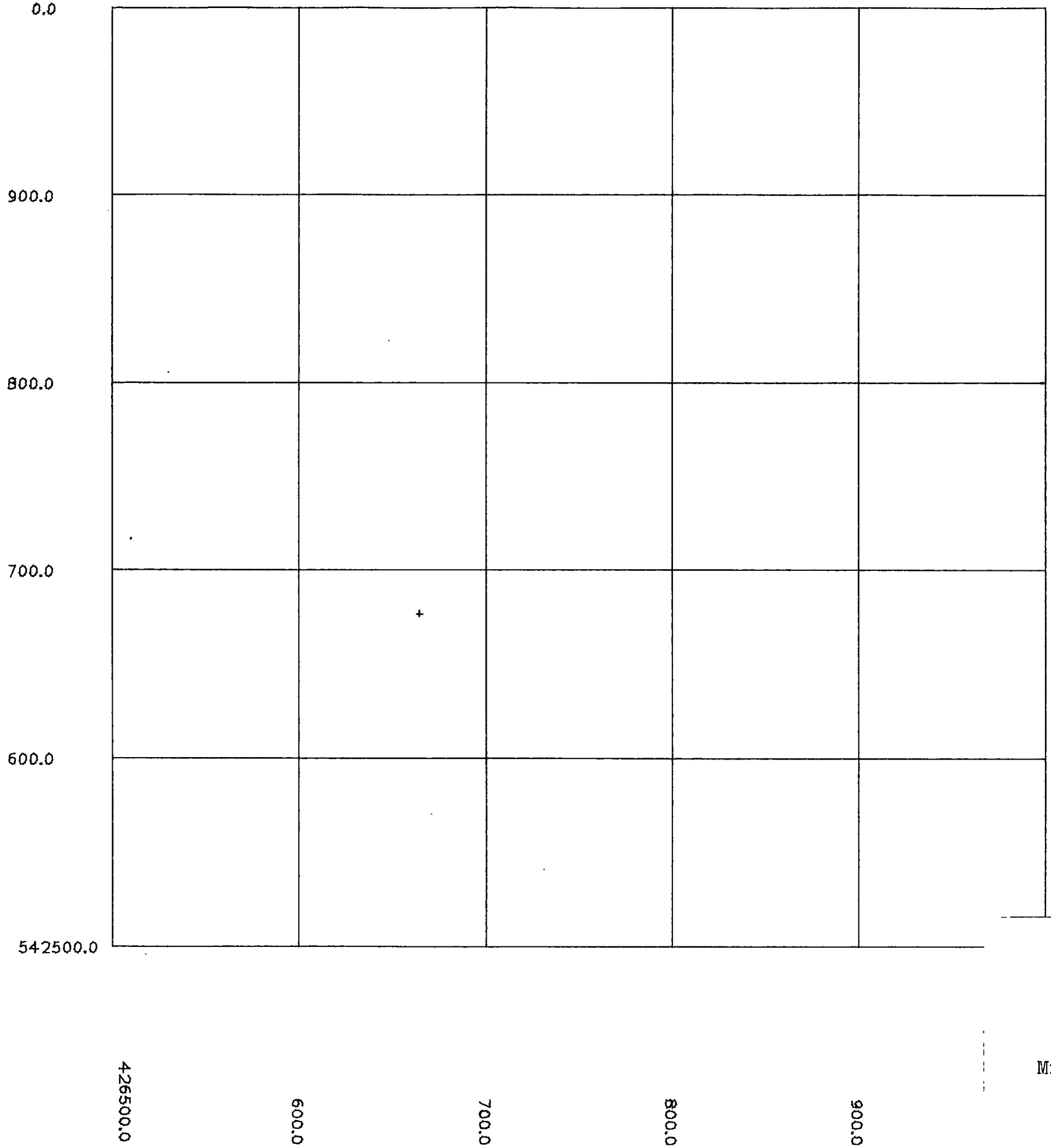
Road pecks (carriageway)



Feature Code 22

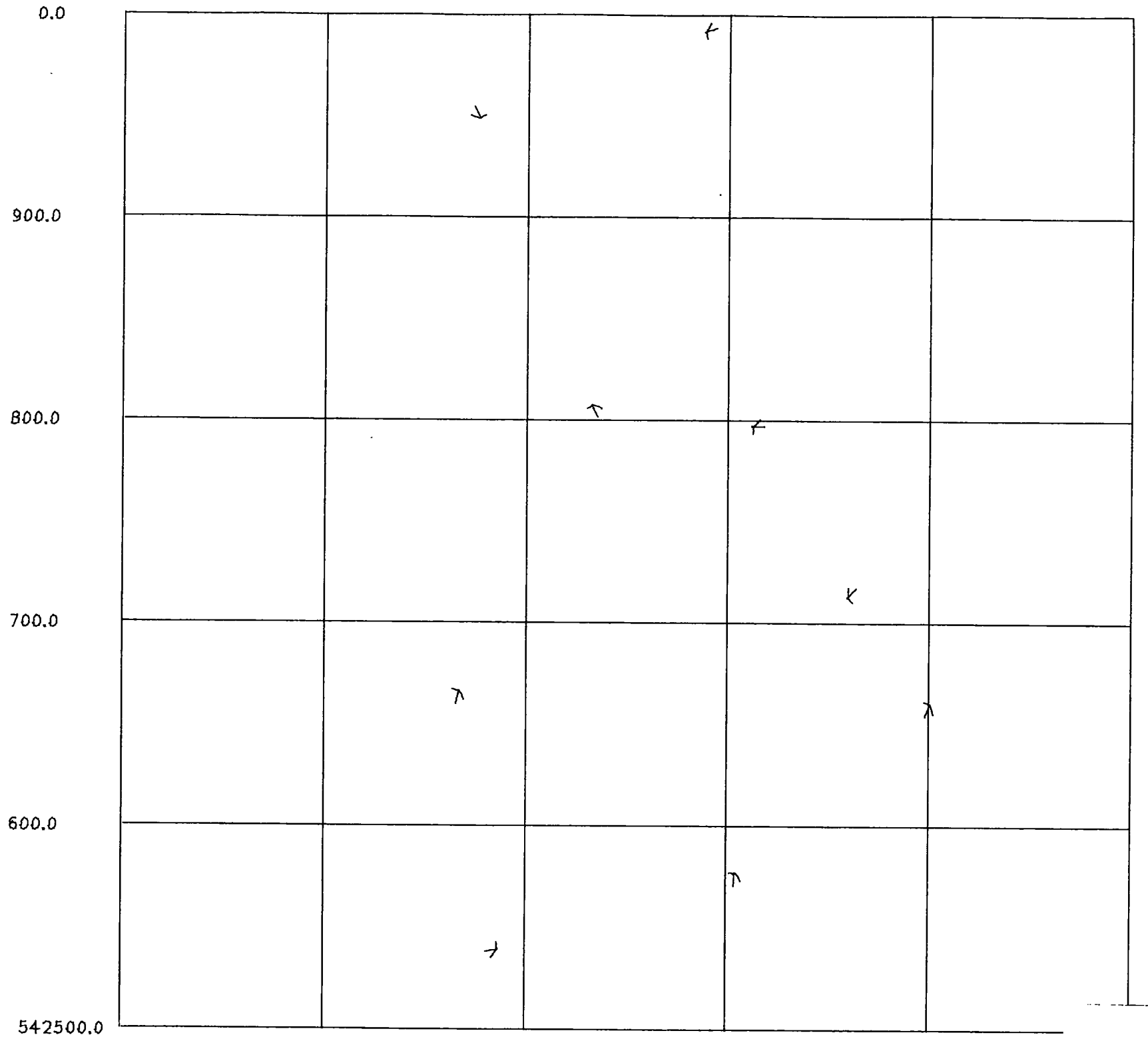
Road - Centre line


0.0
900.0
800.0
700.0
600.0
542500.0
426500.0
600.0
700.0
800.0
900.0
Feature Code 23
Path (um)



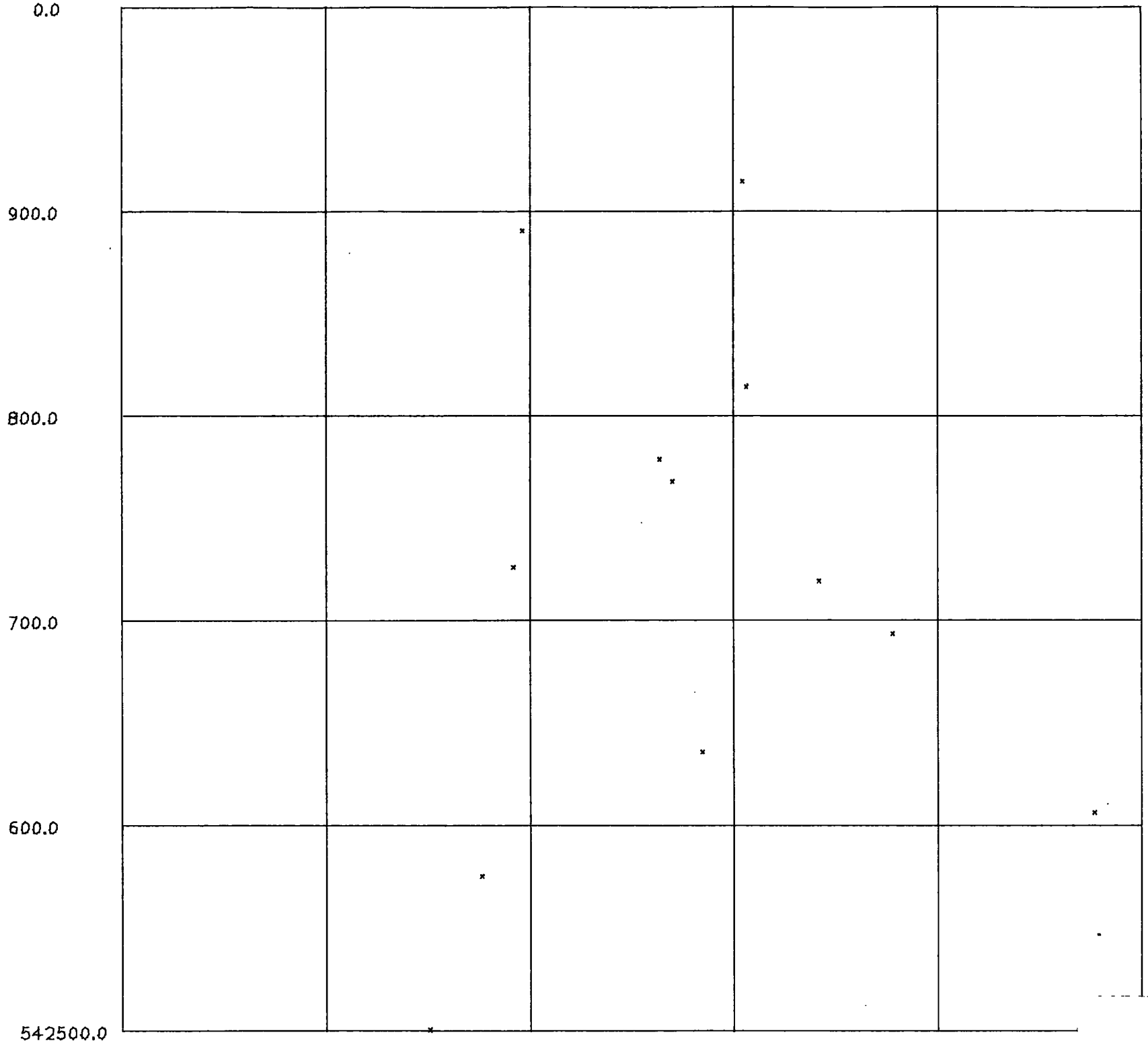
Feature Code 24

Minor Control Points



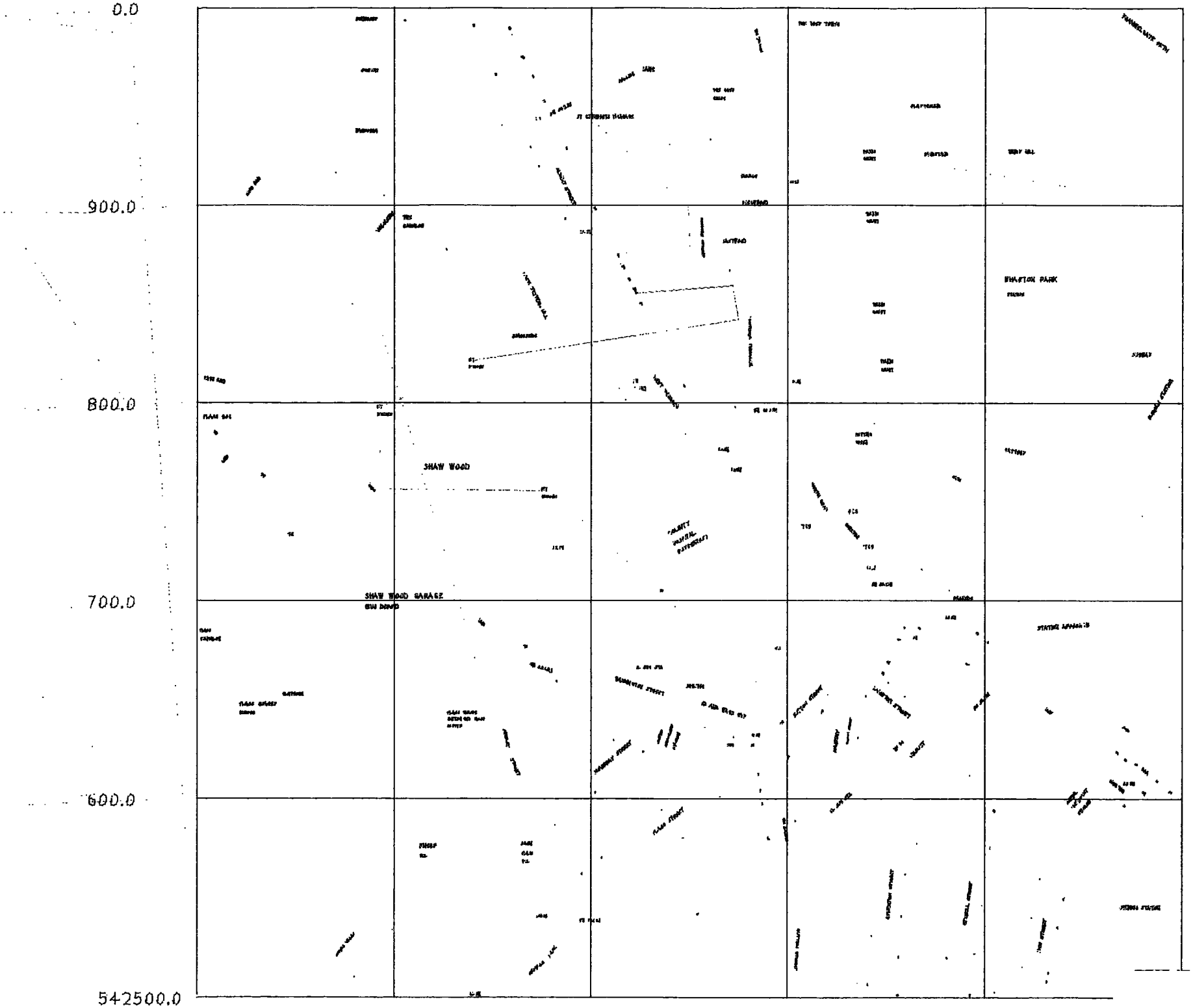
Feature Code 26

Bench Mark



Feature Code 27

Surface Level



Feature Code 28

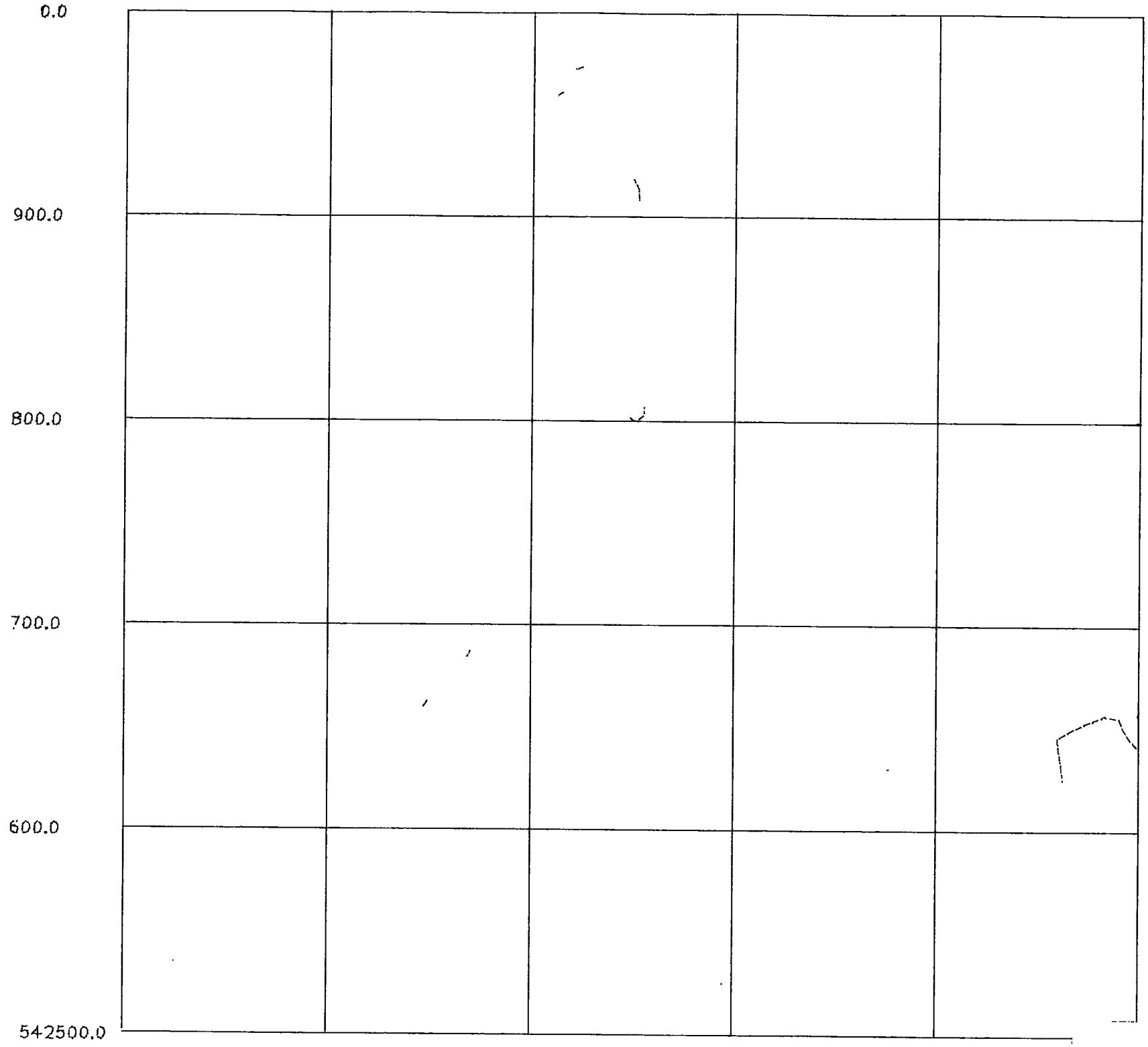
Name/number, Position

Feature Code 29

Road fence, wall etc
(casing definitive)

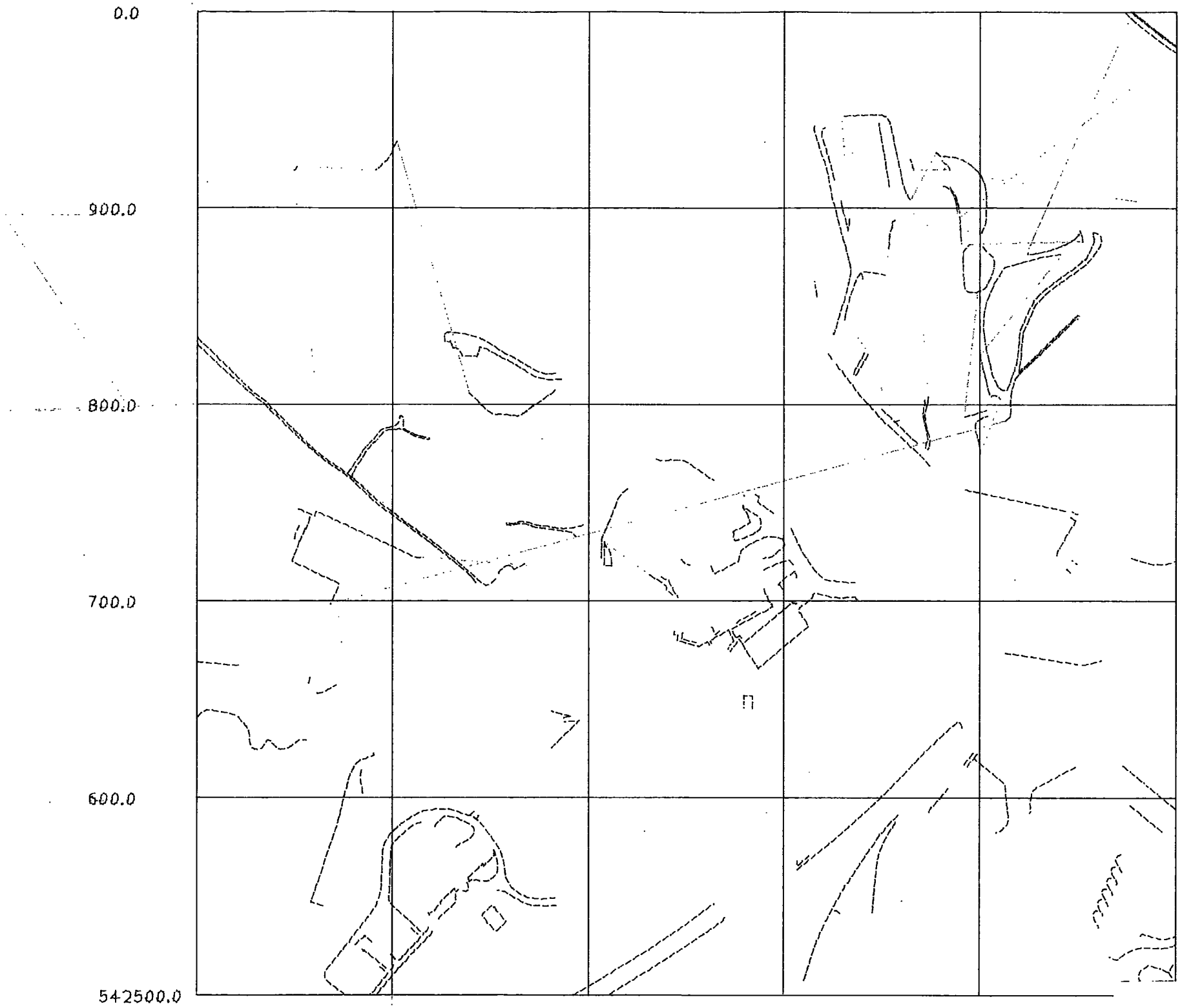
Feature Code 30

Fence, Wall etc - Non Road



Feature Code 31

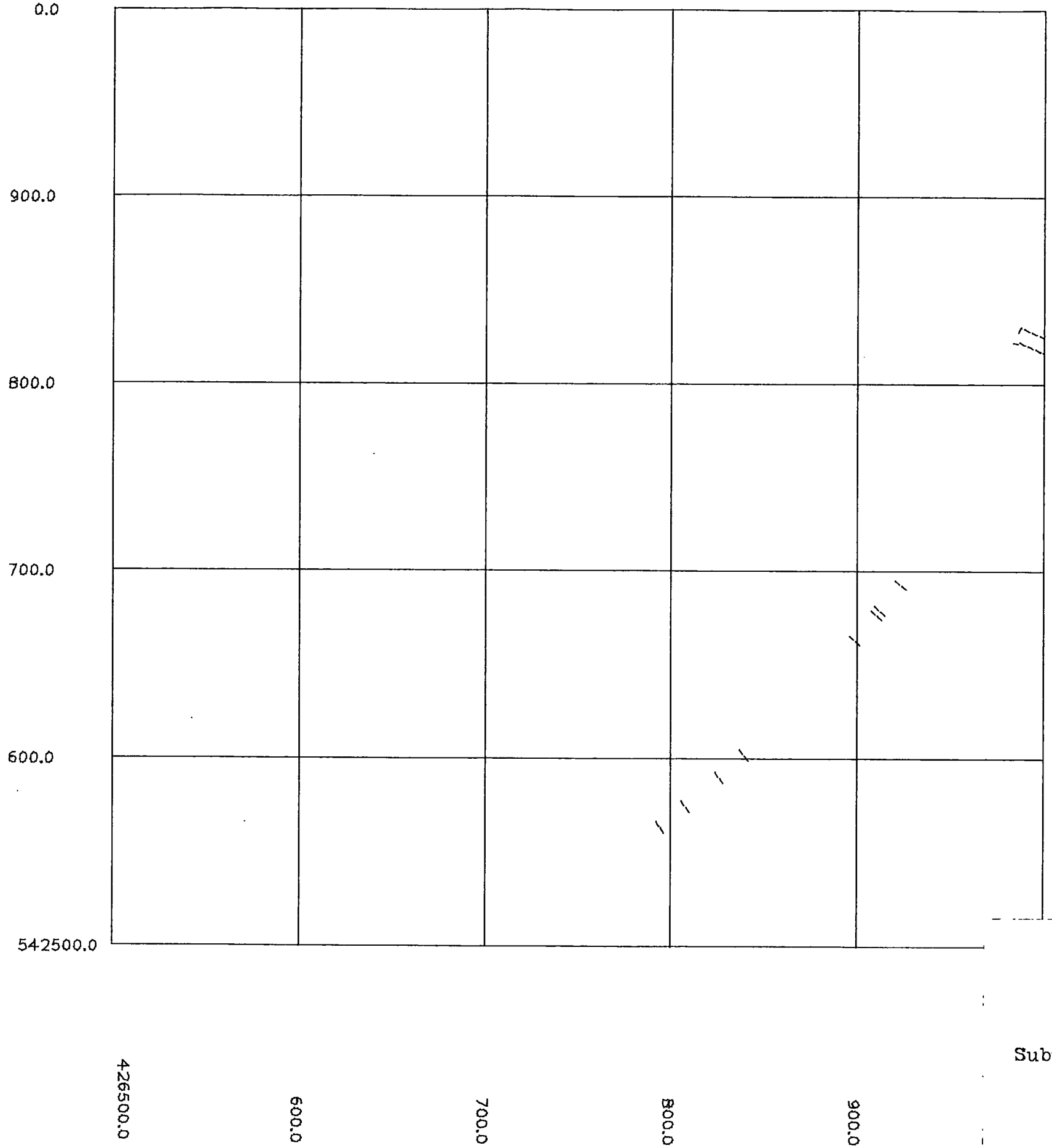
Road pecks
(casing definitive)



Feature Code 32

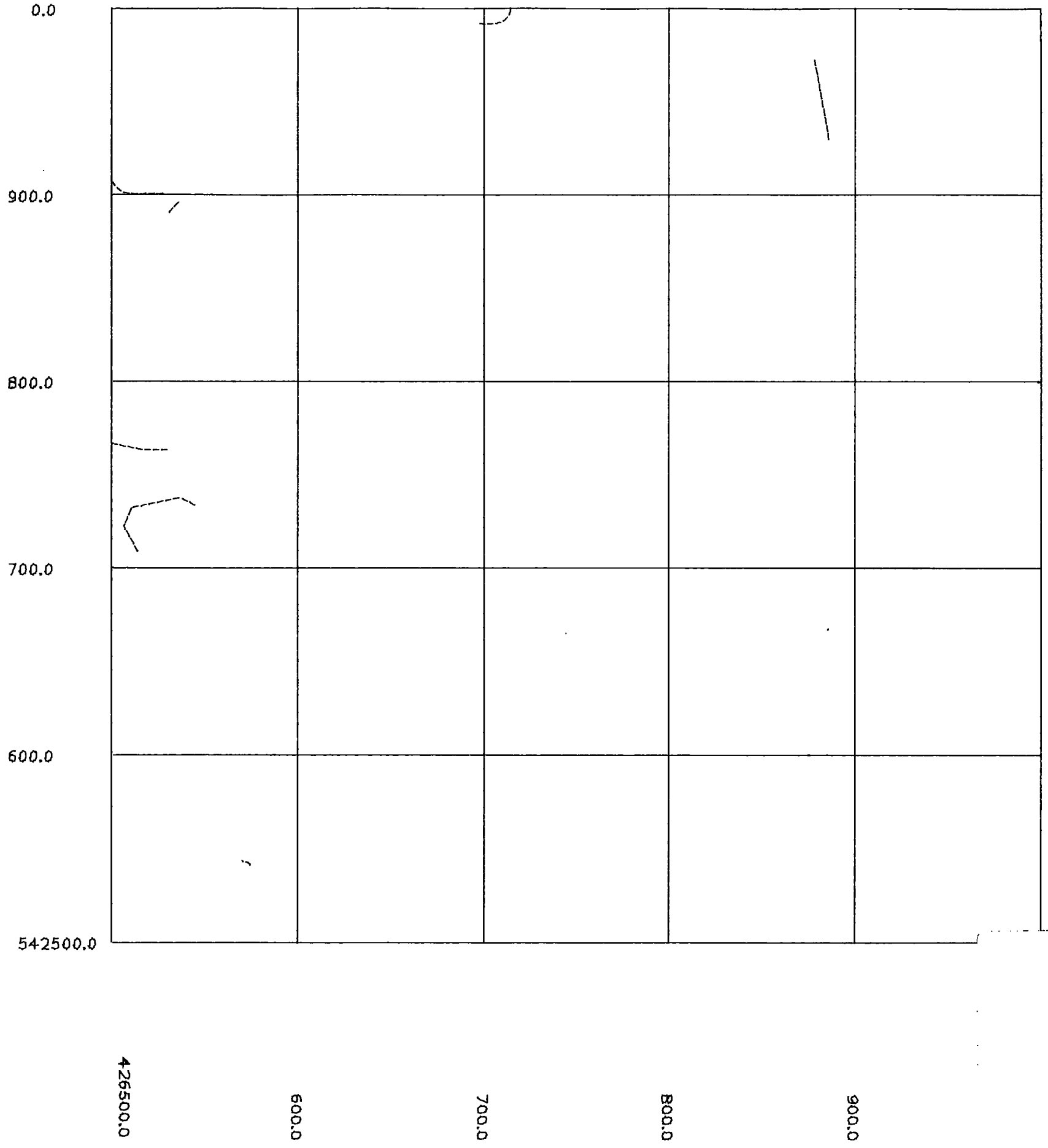
Surveyed Pecks

banks, baulk,
made paths, driveways,
etc



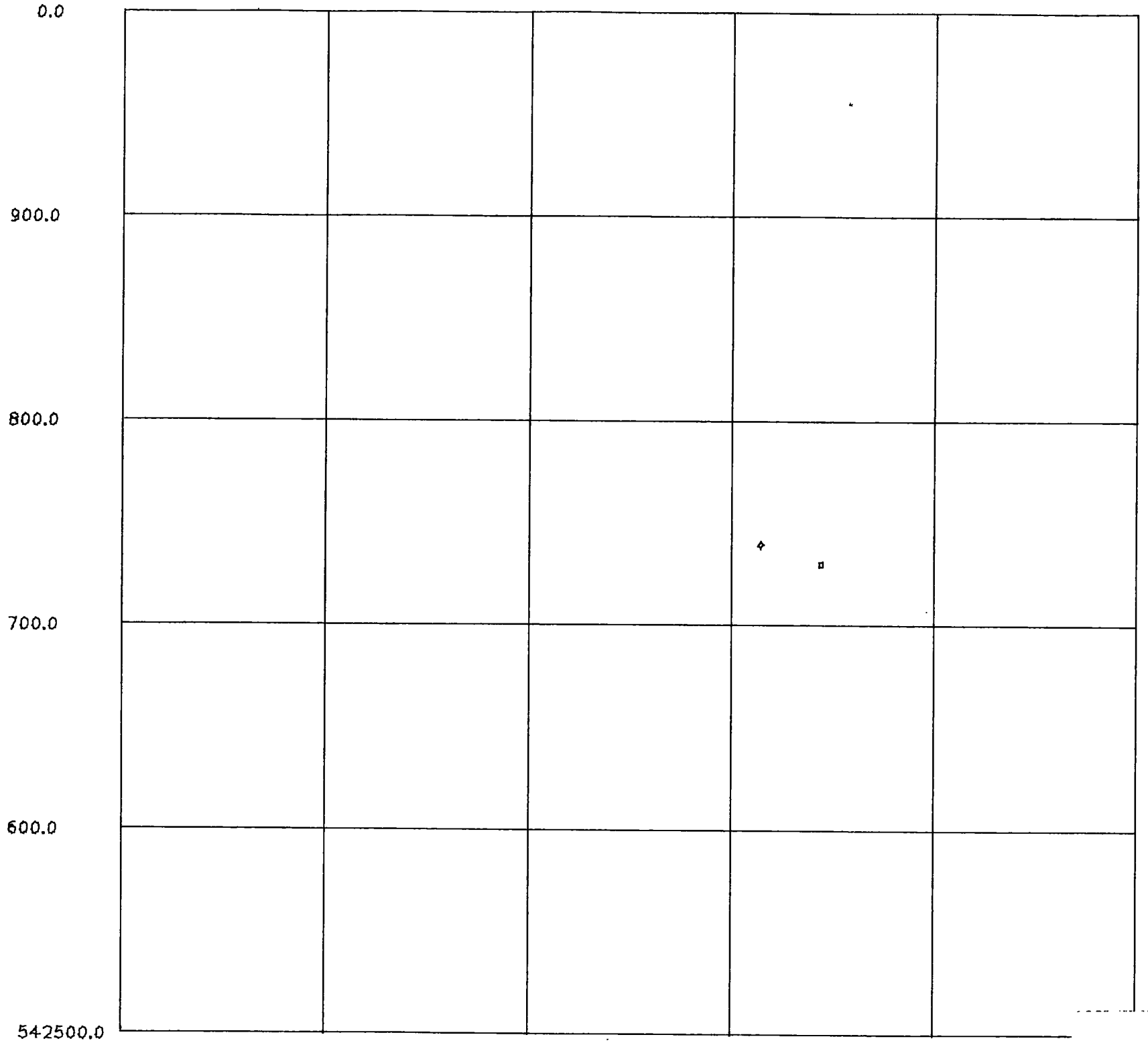
Feature Code 34

Subway/Underpass alignment



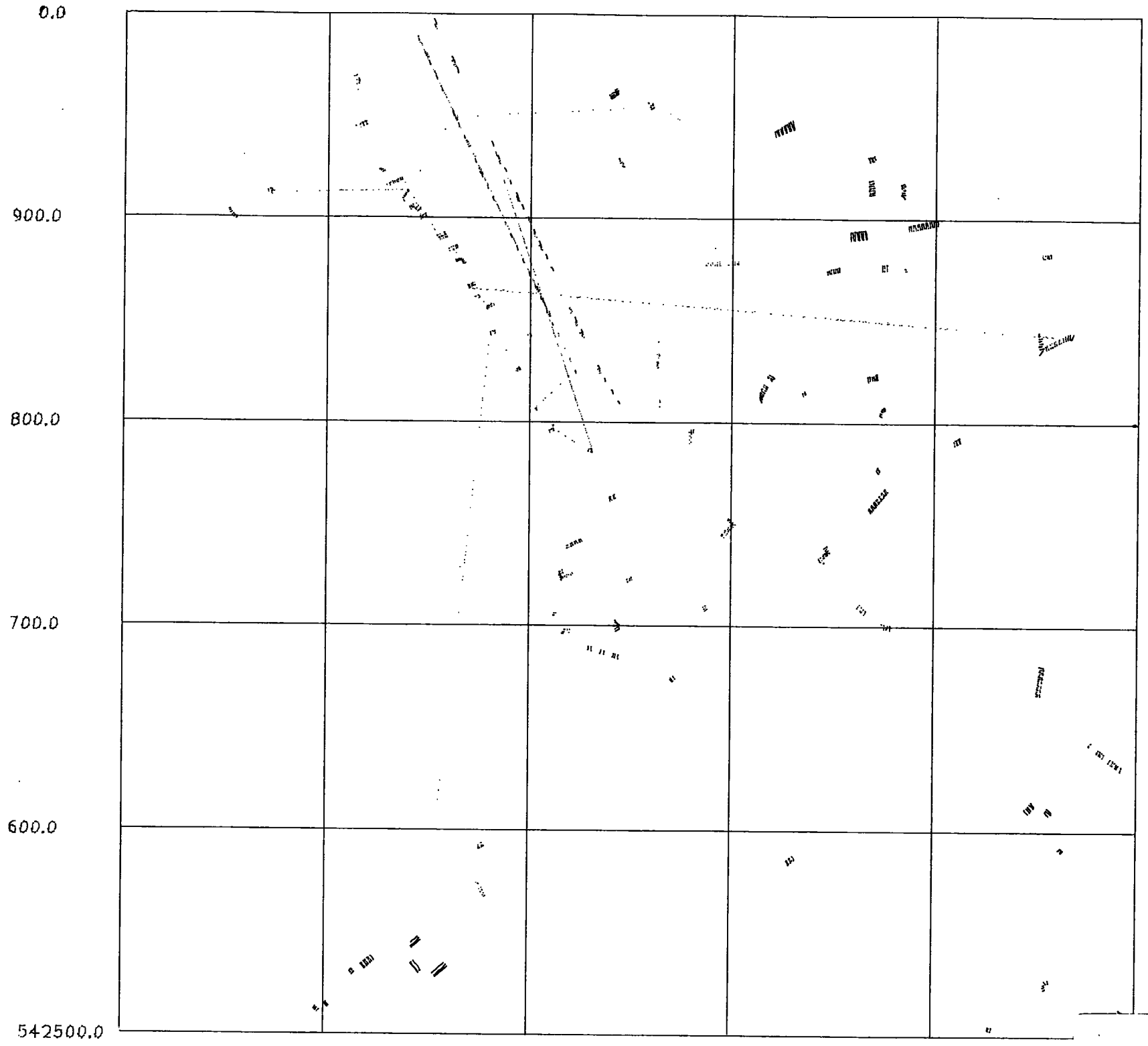
Feature Code 35

Vegetation limits
(sketched pecks)



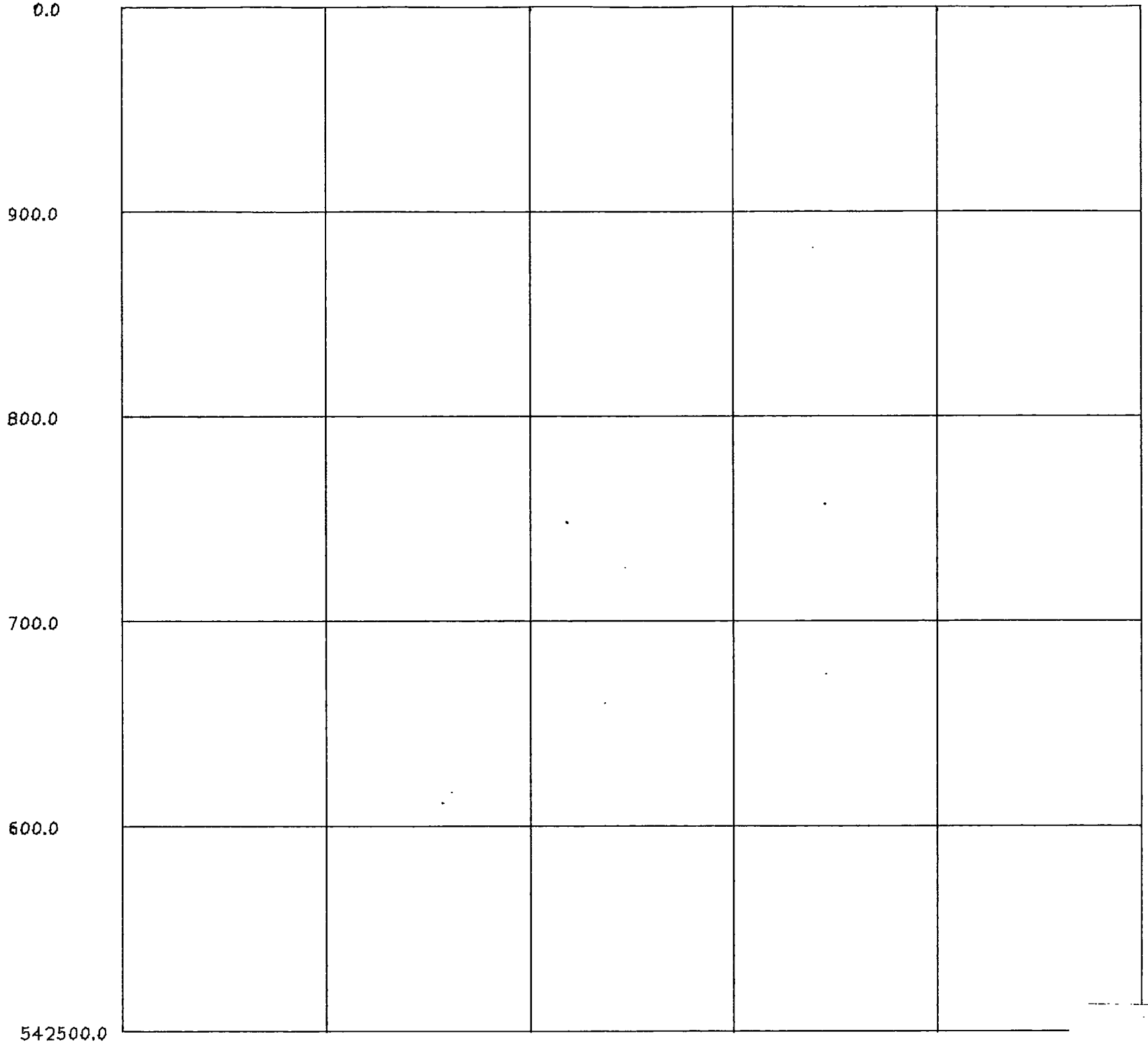
Feature Code 37

Telephone Call Box - GPO



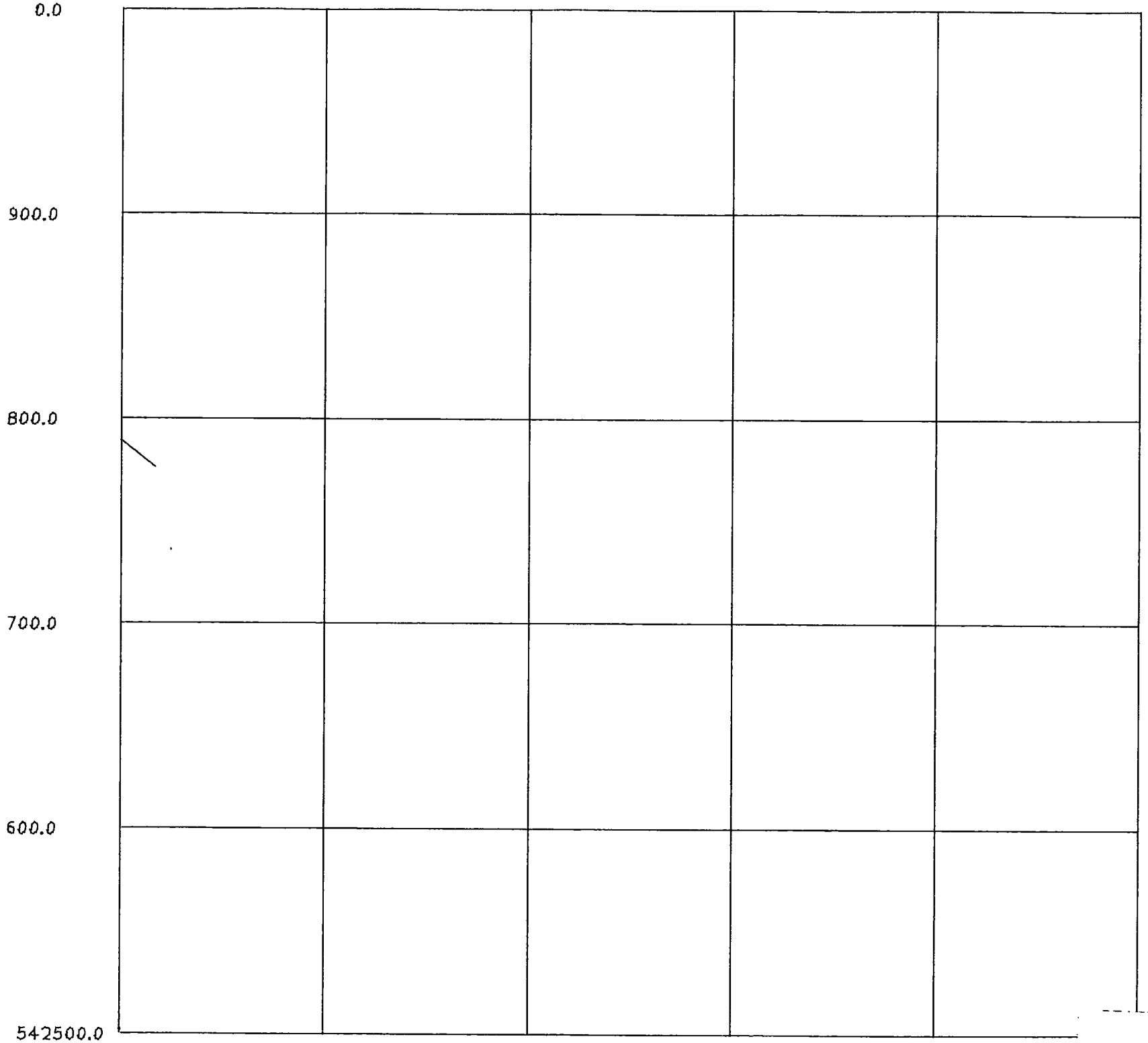
Feature Code 52

Step treads



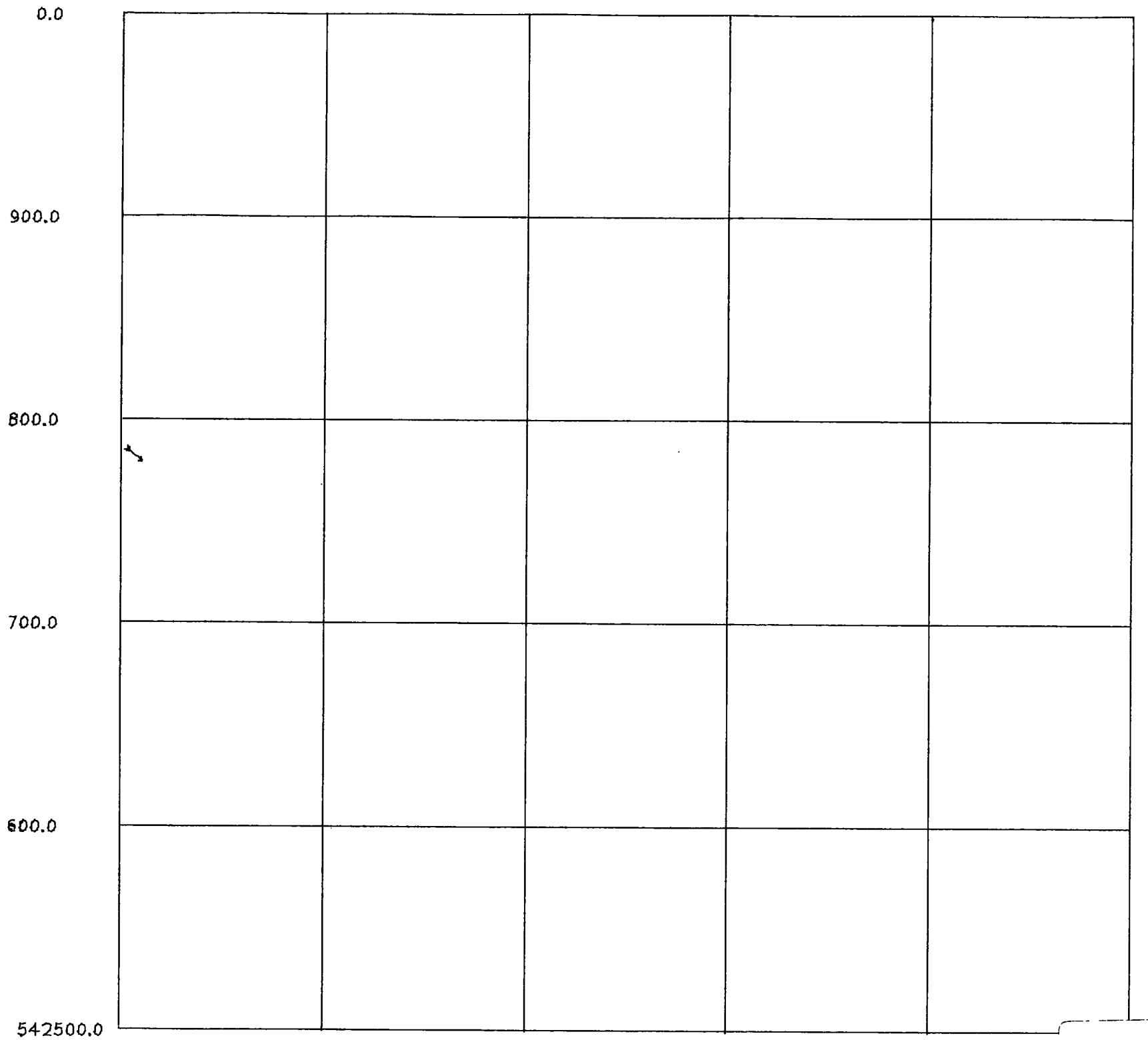
Feature Code 57

Point Features - Dot



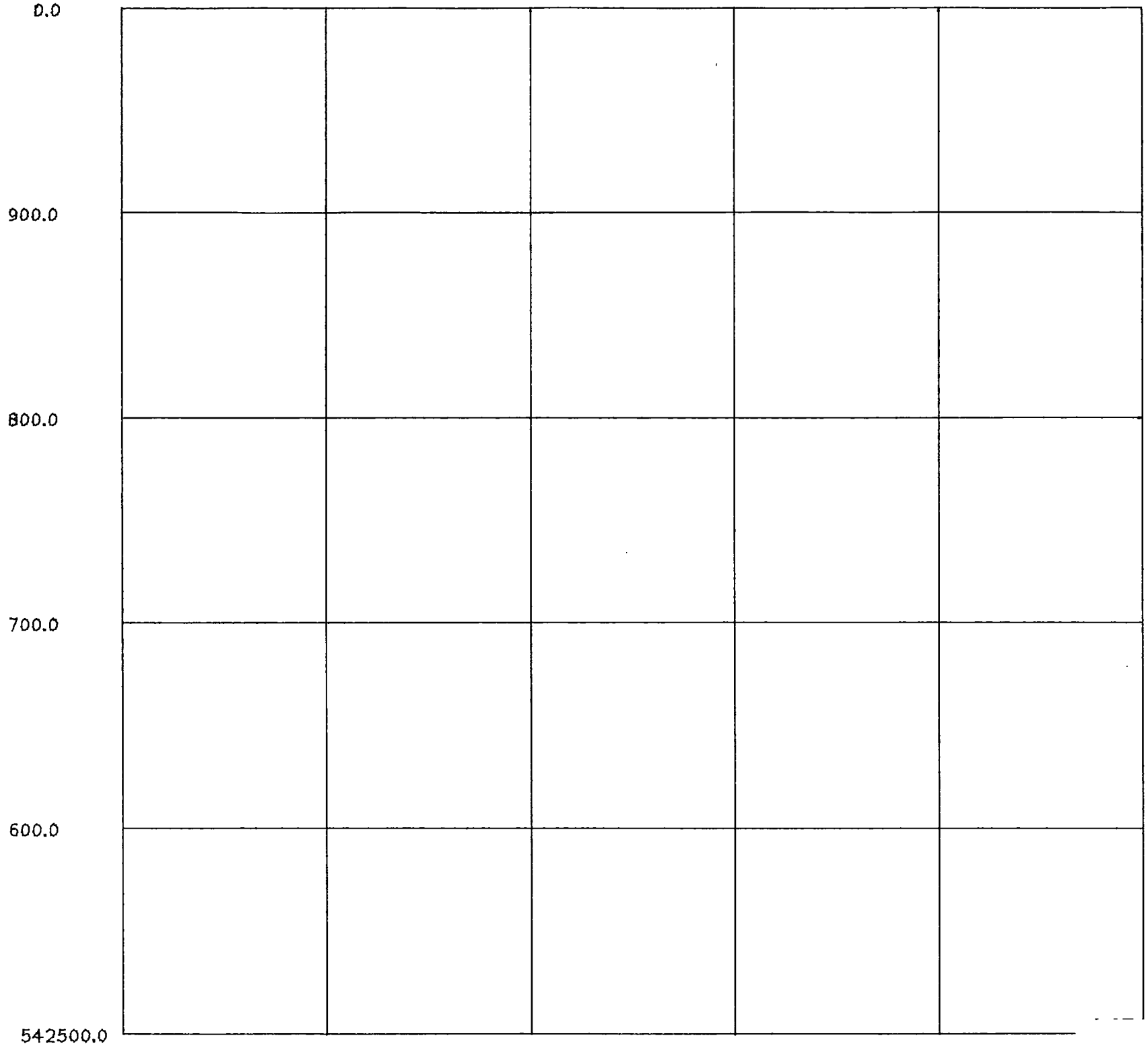
Feature Code 64

Single Stream



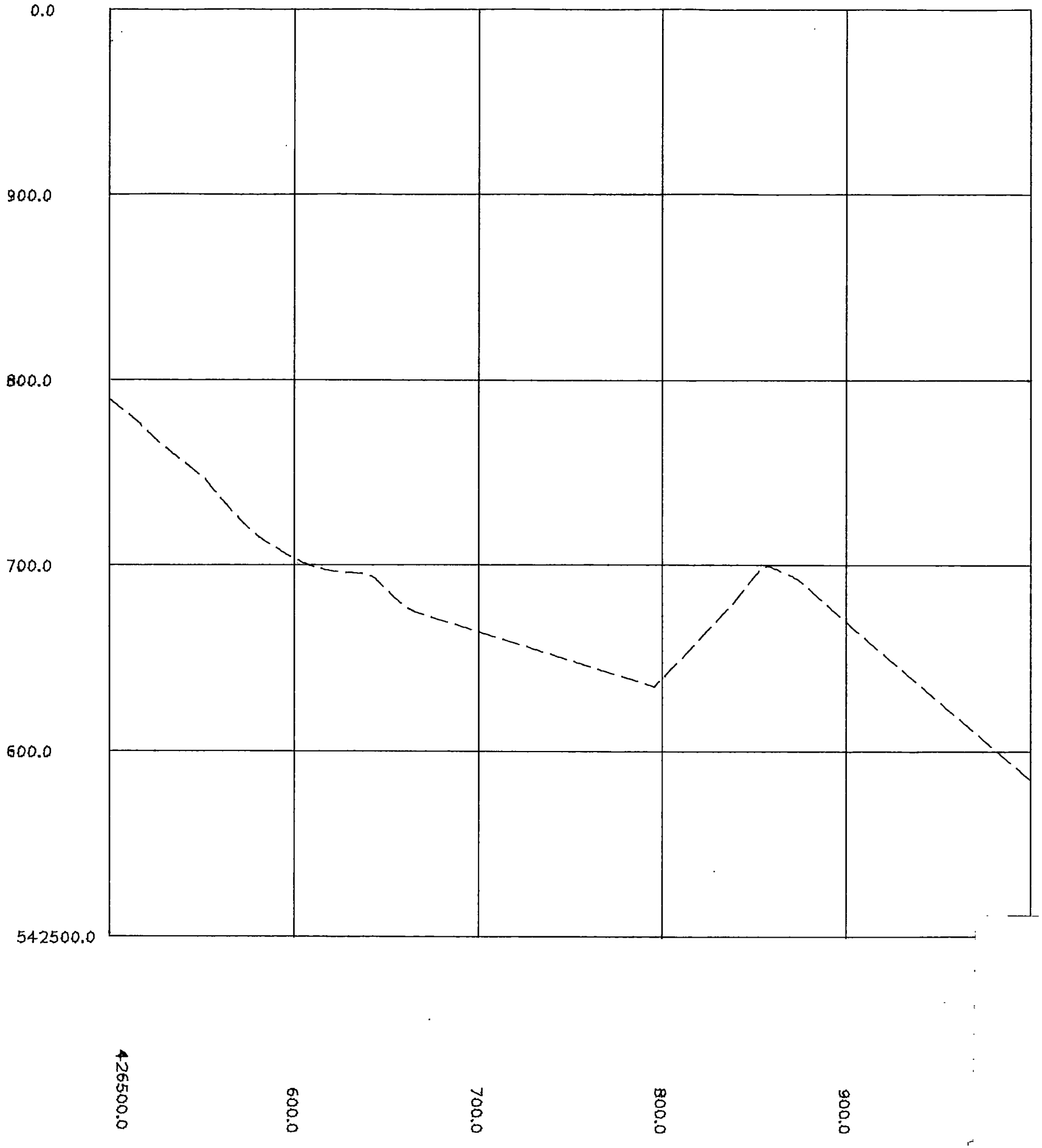
Feature Code 69

Flow arrow - small



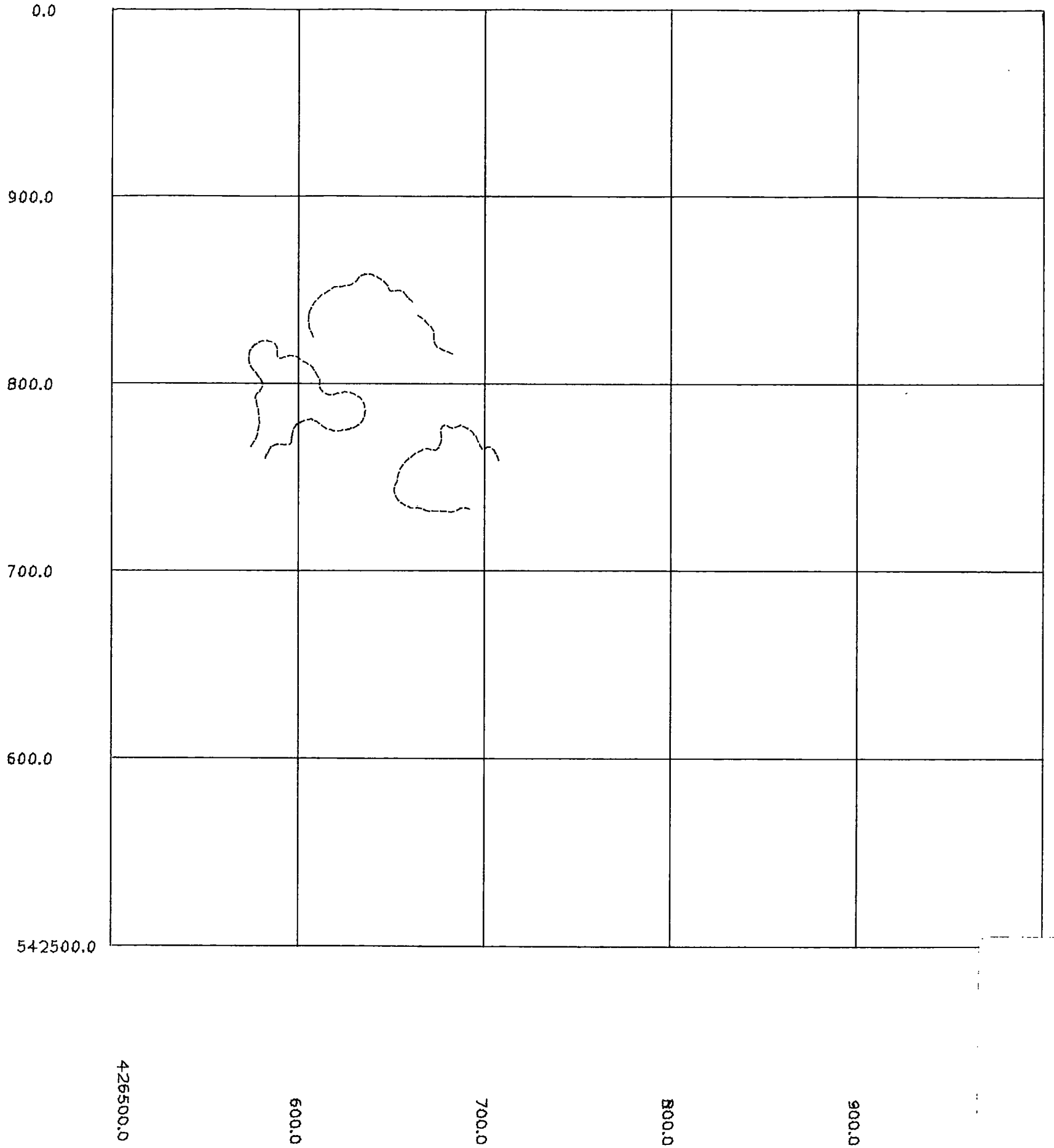
Feature Code 70

Culvert Bar

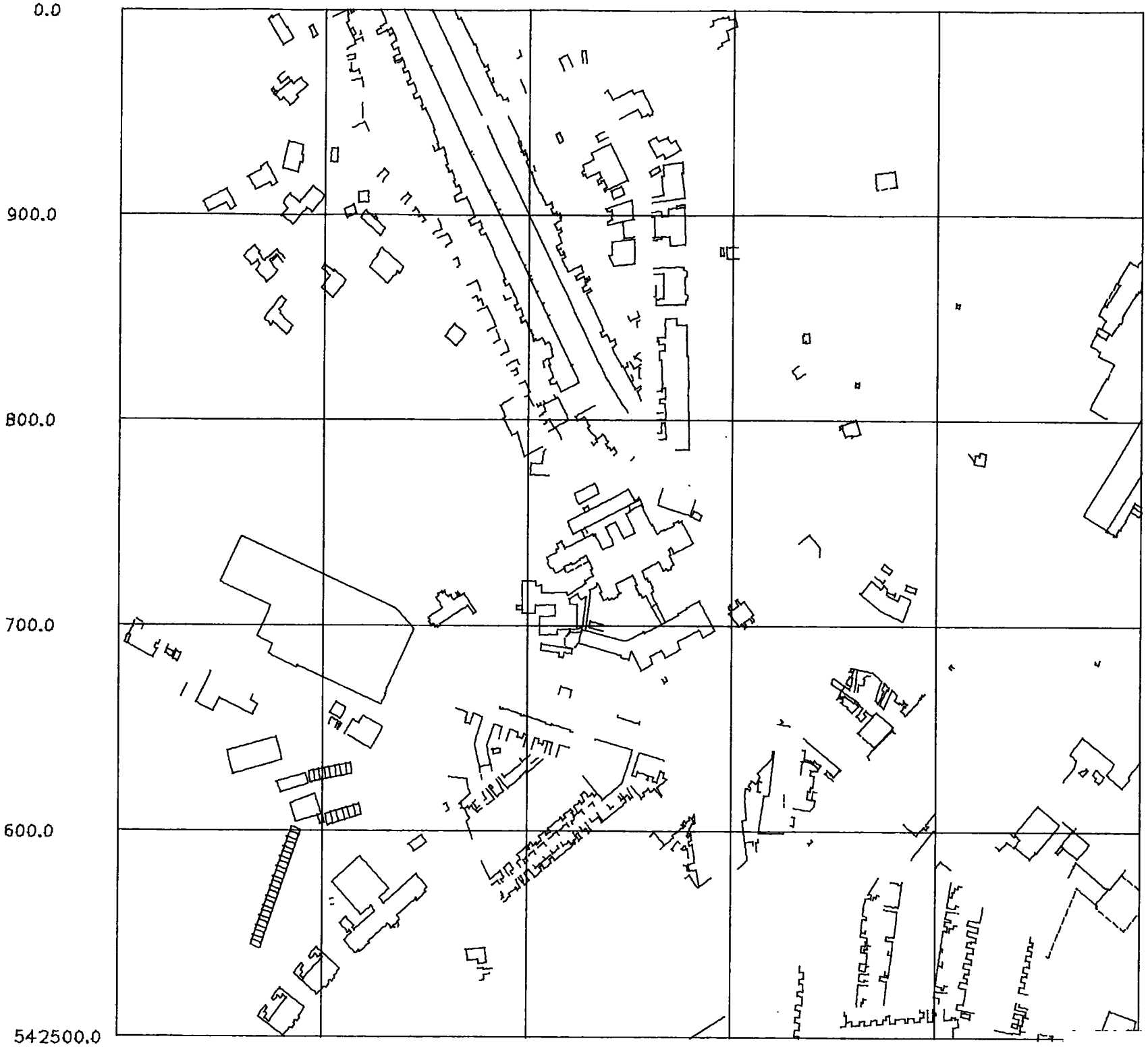


Feature Code 78

Boundary - Ward

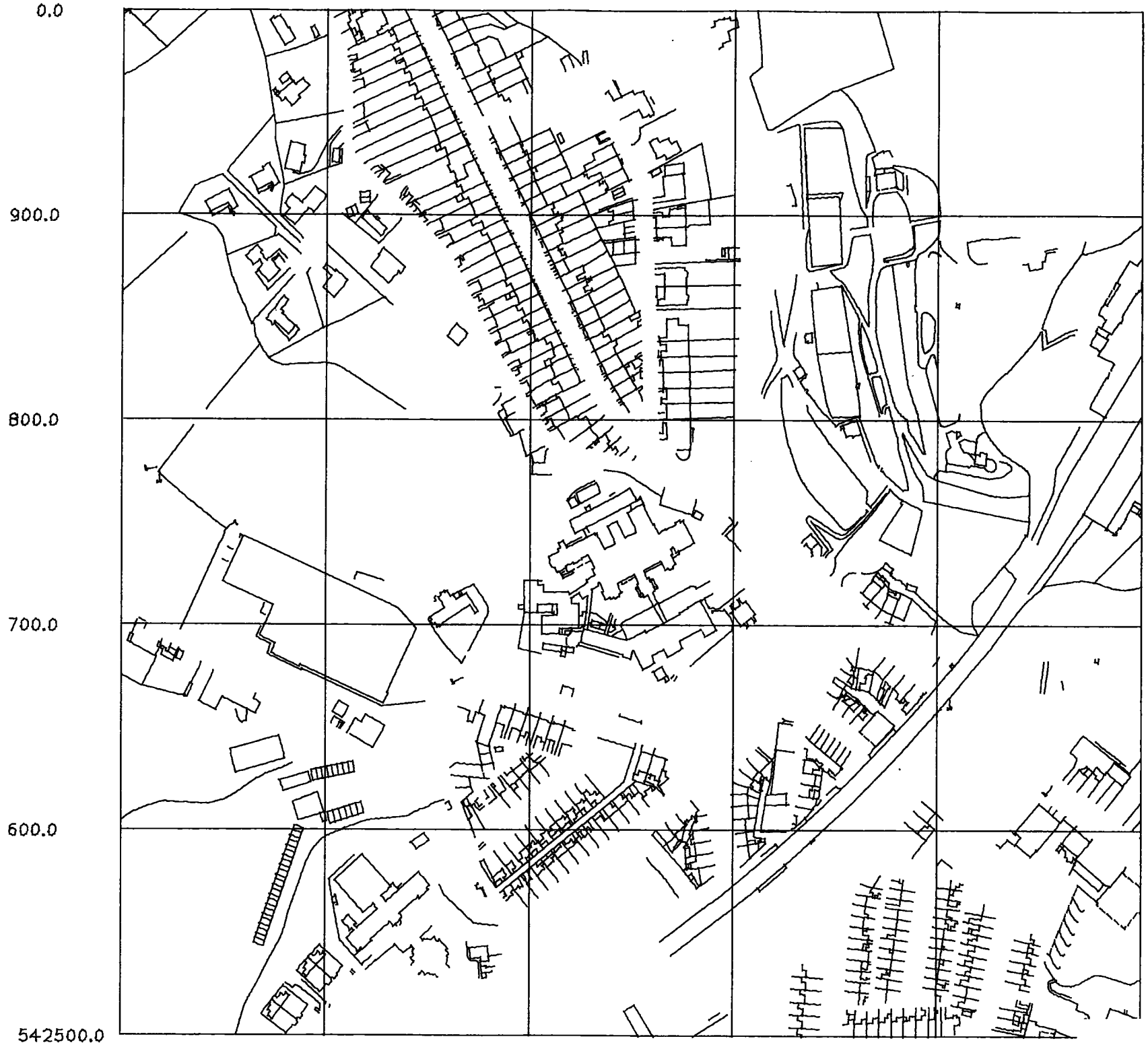


Feature Code 84
Ground surface
feature limits
(sketched pecks)



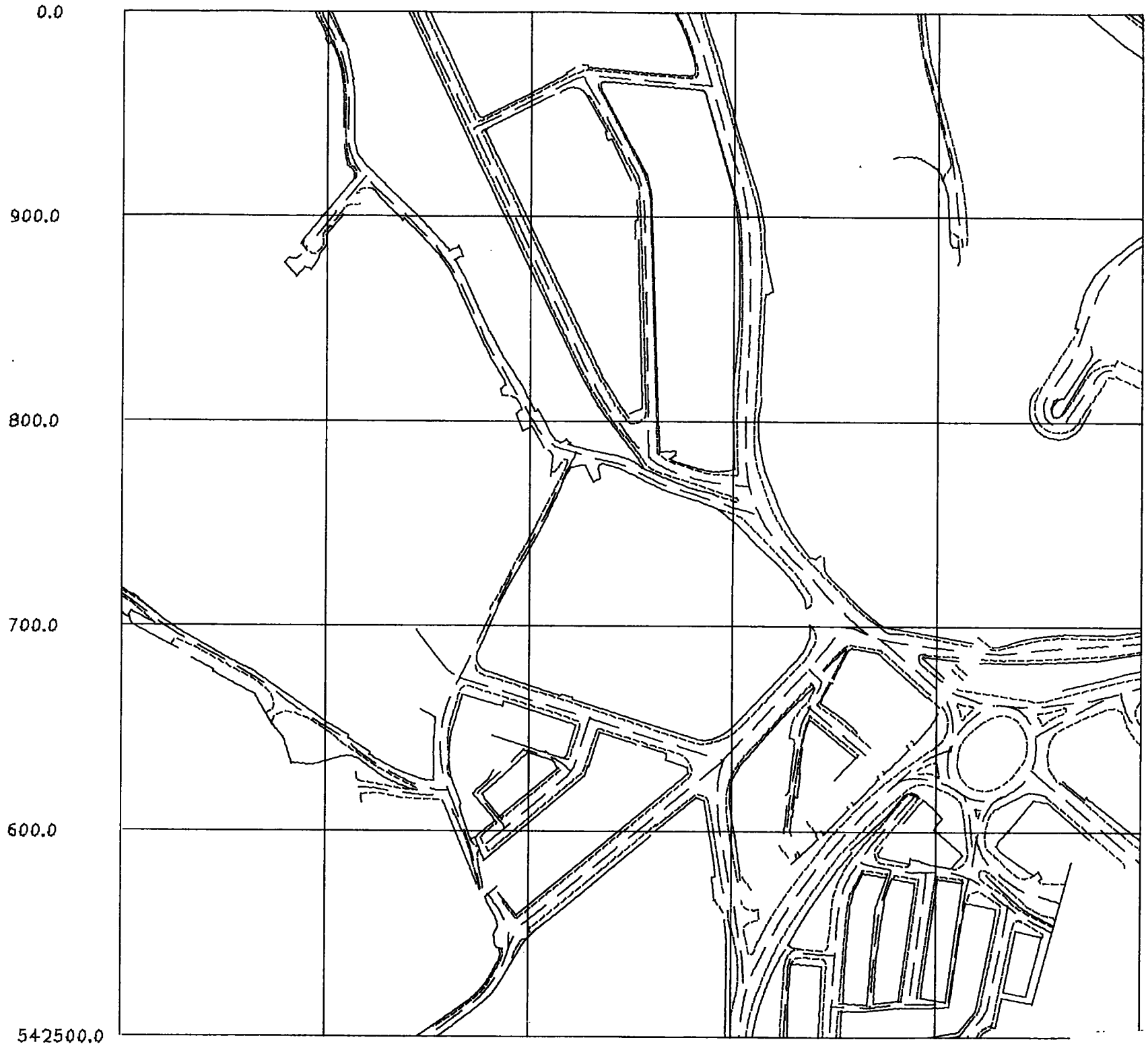
Basic Building Codes

Code nos.
1,2,3,4,5



Buildings, Boundaries
and Fence Codes
Code nos.

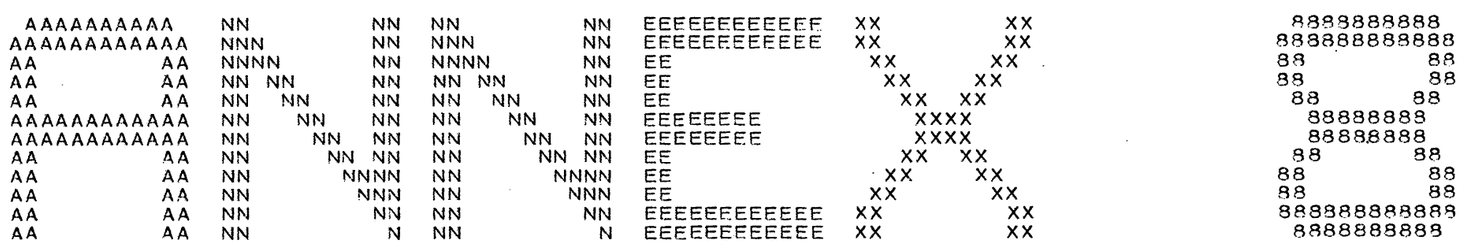
1,2,3,4,5,11,12,13,17,30



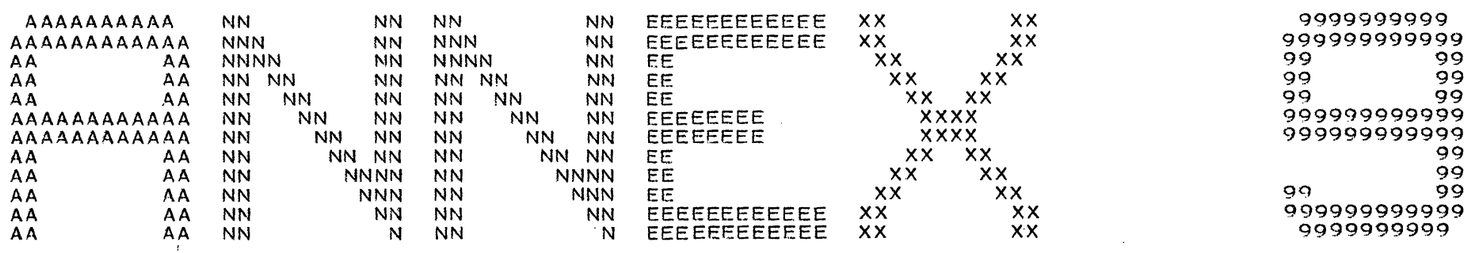
All Road Information

Code nos.

21,22,29,33,34,83



(Filed in the envelope at the back)



(Filed in the envelope at the back)