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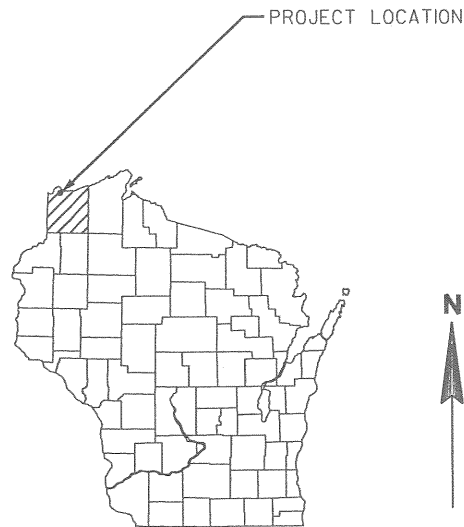
CITY OF SUPERIOR

PLAN OF PROPOSED IMPROVEMENT

12TH STREET

HAMMOND AVENUE - GRAND AVENUE

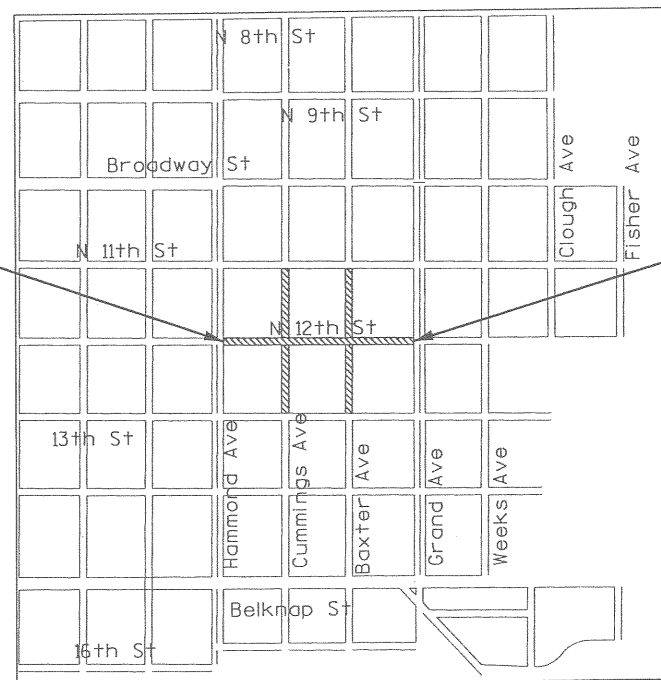
DOUGLAS COUNTY



SEH PROJECT NUMBER
SUPER004.00

BEGIN PROJECT
STA 43+99.78
X = 1442445.782
Y = 574933.572

END PROJECT
STA 53+60.00



DESIGN DESIGNATION

A.D.T.	=
A.D.T.	=
D.H.V.	=
D.	=
T.	=
DESIGN SPEED	=
ESALS	=

CONVENTIONAL SYMBOLS

COUNTY LINE		COMBUSTIBLE FLUIDS	
CORPORATE LIMITS		UNDERGROUND UTILITIES	
PROPERTY LINE		GAS	
LOT LINE		ELECTRIC	
LIMITED EASEMENT		TELEPHONE OR TELEGRAPH	
EXISTING RIGHT OF WAY		COMMUNICATIONS LINE	
PROPOSED OR NEW R/W LINE		SERVICE PEDESTAL	
SURVEY LINE		POWER POLE	
SLOPE INTERCEPT		TELEPHONE POLE	
ORIGINAL GROUND		RAILROAD	
MARSH OR ROCK PROFILE (To be noted as such)		SANITARY SEWER	
MARSH AREA		STORM SEWER	
WOODED OR SHRUB AREA		WATER	
		EXISTING CULVERT	
		PROPOSED CULVERT (Box or Pipe)	
		CULVERT (Profile View)	

LAYOUT
SCALE 0 _____ MI.

TOTAL NET LENGTH OF CENTERLINE = 0.182 MI.

Coordinates on this plan are referenced to the Wisconsin State Plane Coordinate System (WSPCS), North Zone.

APPROVED FOR

CITY _____ of SUPERIOR _____

DATE: _____ CITY ENGINEER _____

ORIGINAL PLANS PREPARED BY:



STANDARD ABBREVIATIONS

ABUT	ABUTMENT	L	LENGTH OF CURVE
AC	ACRE	LF	LINEAR FOOT
AGG	AGGREGATE	LC	LONG CHORD OF CURVE
ASPH	ASPHALTIC	LS	LUMP SUM
AVG	AVERAGE	MH	MANHOLE
ADT	AVERAGE DAILY TRAFFIC	MOR	MID POINT OF RADIUS
BF	BACK FACE	NC	NORMAL CROWN
BM	BENCH MARK	NO	NUMBER
BR	BRIDGE	OBLIT	OBLITERATE
CE	COMMERCIAL ENTRANCE	PAVT	PAVEMENT
CL OR C/L	CENTER LINE	PE	PRIVATE ENTRANCE
	CENTRAL ANGLE OR DELTA	PVRC	POINT OF VERTICAL REVERSE CURVE
CONC	CONCRETE	QOR	QUARTER POINT OF RADIUS
CR	CREEK	R	RADIUS
CY	CUBIC YARD	RCAEW	REINFORCED CONCRETE APRON ENDWALL
C & G	CURB AND GUTTER	RCCP	REINFORCED CONCRETE CULVERT PIPE
D	DEGREE OF CURVE	RCHECP	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CULVERT PIPE
DHV	DESIGN HOUR VOLUME		REINFORCED CONCRETE PIPE STORM SEWER
DISCH	DISCHARGE	RCSS	REQUIRED
DG	DITCH GRADE	REO'D	RESIDENCE OR RESIDENTIAL
DWY	DRIVEWAY	RES	RIGHT-HAND FORWARD
X	EAST GRID COORDINATE	RHF	RIGHT-OF-WAY
EAT	STEEL PLATE BEAM GUARD	R/W	RIVER
	ENERGY ABSORBING TERMINAL	R	ROADWAY
EOR	END POINT OF RADIUS	RDWY	REFERENCE LINE
EL	ELEVATION	R/L	SALVAGED
ENT	ENTRANCE	SALV	SANITARY SEWER
ESALS	EQUIVALENT SINGLE AXLE LOADS	SAN	SQUARE FEET
EXC	EXCAVATION	SF	SQUARE YARD
EBS	EXCAVATION BELOW SUBGRADE	SY	STANDARD DETAIL DRAWINGS
EXIST	EXISTING	SDD	STATION
FC	FACE OF CURB	STA	STORM SEWER
FF	FACE TO FACE	SS	SUPERELEVATION RATE
FERT	FERTILIZE	SE	TOP OF CURB
FE	FIELD ENTRANCE	TC	TOWN
FL	FLOW LINE	T OR TN	TRUCKS (PERCENT OF)
FO	FIBER OPTIC	T	TYPICAL
CWT	HUNDREDWEIGHT	TYP	VARIABLE
HYD	HYDRANT	VAR	VERTICAL CURVE
ID	INSIDE DIAMETER	VC	NORTH GRID COORDINATE
INV	INVERT	Y	YARD
IP	IRON PIPE ON PIN	YD	
LHF	LEFT-HAND FORWARD		

UTILITY CONTACTS

CITY OF SUPERIOR
SANITARY SEWER SYSTEM (PUBLIC WORKS)
SUPERIOR, WISCONSIN 54880
TELEPHONE: 715.394.0333
ATTENTION: PAUL KING (CITY ENGINEER)

SUPERIOR WATER, LIGHT & POWER CO.
2915 HILL AVENUE
P.O. BOX 519
SUPERIOR, WISCONSIN 54880
TELEPHONE: 715.395.6315
ATTENTION: DAVID SMITH (ELECTRIC)
TELEPHONE: 715.395.6316
ATTENTION: TOM DONOFRIO (WATER & GAS)

CENTURYTEL SERVICE GROUP
135 N. 21ST STREET
SUPERIOR, WISCONSIN 54880
ENGINEERING TELEPHONE: 715.392.0059
ATTENTION: GARY LEEPER
CONSTRUCTION TELEPHONE: 608.796.5195
ATTENTION: STY HOE

CHARTER COMMUNICATIONS
302 E. SUPERIOR STREET
DULUTH, MINNESOTA 55802
TELEPHONE: 218.529.8028
ATTENTION: ALAN SEIFERT

DESIGN CONTACT

WILLIAMS PIPELINE COMPANY
2301 WINTER STREET
SUPERIOR, WISCONSIN 54880
TELEPHONE: 715.392.2438
ATTENTION:

SEH INC.
831 EAST 2ND STREET
DULUTH, MN 55805-2103
TELEPHONE: 218.722.0547
ATTENTION: SCOTT WEYANDT



FOR FIELD LOCATES
CALL: 1.800.242.8511
www.DiggersHotline.com

GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE APPROXIMATE USGS DATUM.

WHEN THE QUANTITY OF THE ITEMS OF BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

CURVE DATA IS BASED ON THE ARC DEFINITION.

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

BEARINGS SHOWN ON THE PLANS ARE GRID BEARINGS TO THE NEAREST SECOND.

THE LOCATION OF ALL DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

ALL CURB AND GUTTER RADII ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

ALL SIDE ROAD EARTHWORK QUANTITIES ARE INCLUDED IN MAINLINE EARTHWORK QUANTITIES.

CONSTRUCT INSIDE EDGE OF SIDEWALK 1/4 INCH HIGHER THAN THE TOP OF CURB, WHEN THEY ARE ADJACENT TO EACH OTHER.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS AND PAVEMENTS AT REMOVAL LIMITS.

TOP OF CASTING ELEVATIONS SHOWN FOR INLETS REFER TO THE CASTING ELEVATION AT THE FLOWLINE OF GRATE.

ALL STORM SEWER INVERTS, ELEVATIONS, PIPE LENGTHS, AND GRADES ARE COMPUTED CENTER-TO-CENTER OF STRUCTURES.

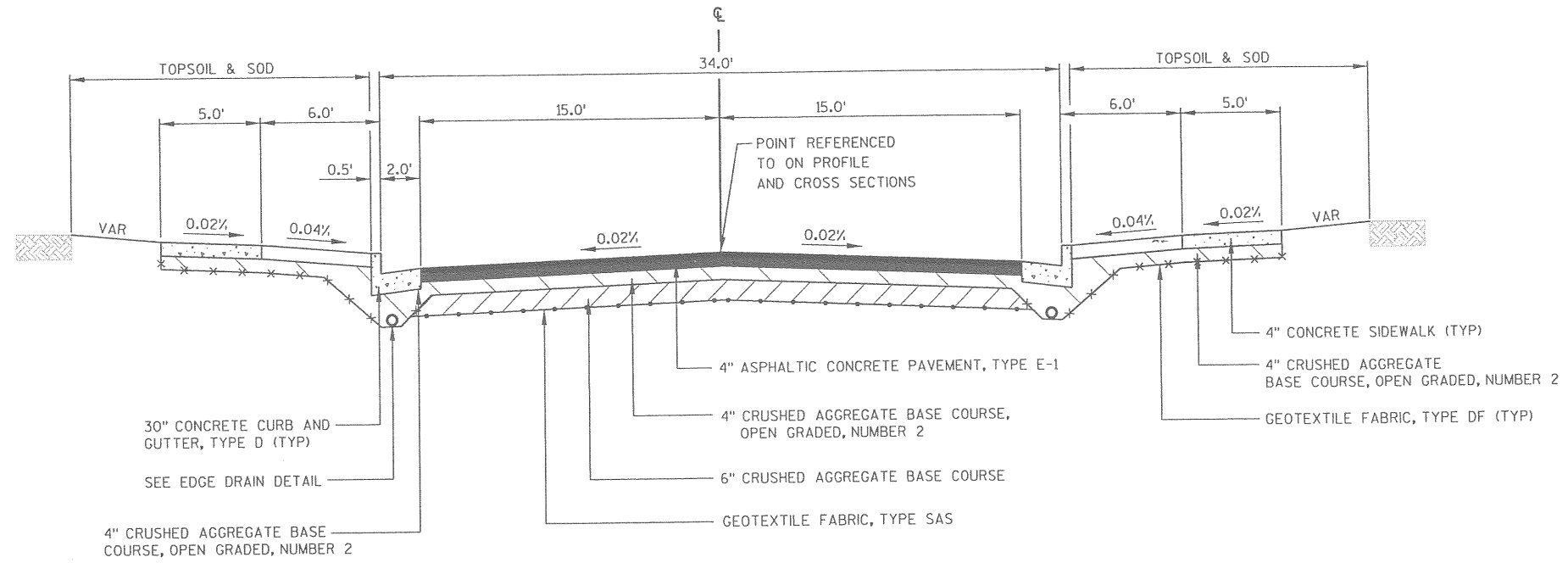
EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION.

PAVEMENT THICKNESS (INCH)	LOWER LAYER (INCH)	UPPER LAYER (INCH)
4"	2"	2"

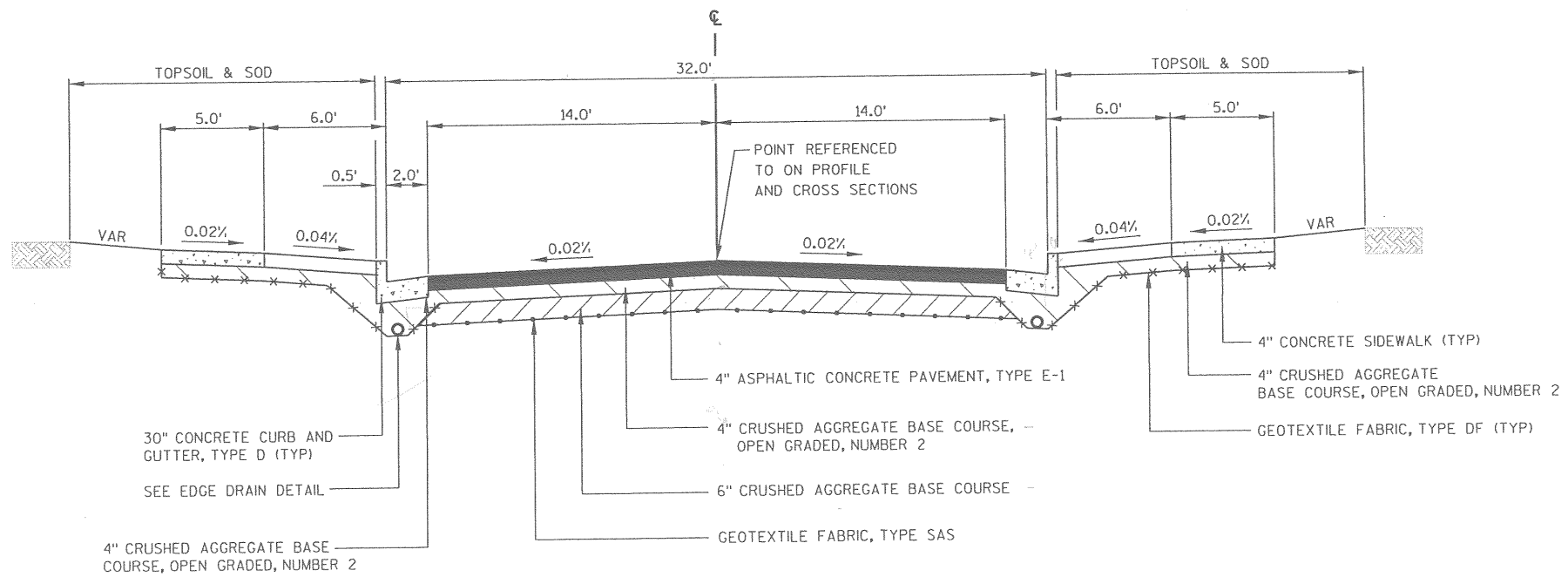
△ CONTROL POINT TABLE		
NO	STATION	COORDINATES
PI	43+52.97 12TH STREET	X = 1442398.995 Y = 574935.051
CP 100	47+53.80, 15.1' LT 12TH STREET	X = 1442800.103 Y = 574937.484
CP 101	51+20.32, 15.0' LT 12TH STREET	X = 1443166.438 Y = 574925.822
PI	54+78.32 12TH STREET	X = 1443523.785 Y = 574899.488
CP 1	INTERSECTION OF HAMMOND AVE/12TH ST	X = 1442364.194 Y = 574951.361
CP 102	INTERSECTION OF 12TH ST/GRAND AVE	X = 1443554.901 Y = 574913.455
PI	10+60.93 CUMMING AVE	X = 1442769.720 Y = 574484.044
PI	17+42.25 CUMMING AVE	X = 1442791.817 Y = 575164.998
PI	19+48.17 CUMMING AVE	X = 1442797.850 Y = 575370.834
PI	20+75.90 BAXTER AVE	X = 1443140.498 Y = 574487.291
PI	29+40.01 BAXTER AVE	X = 1443167.707 Y = 575350.979

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



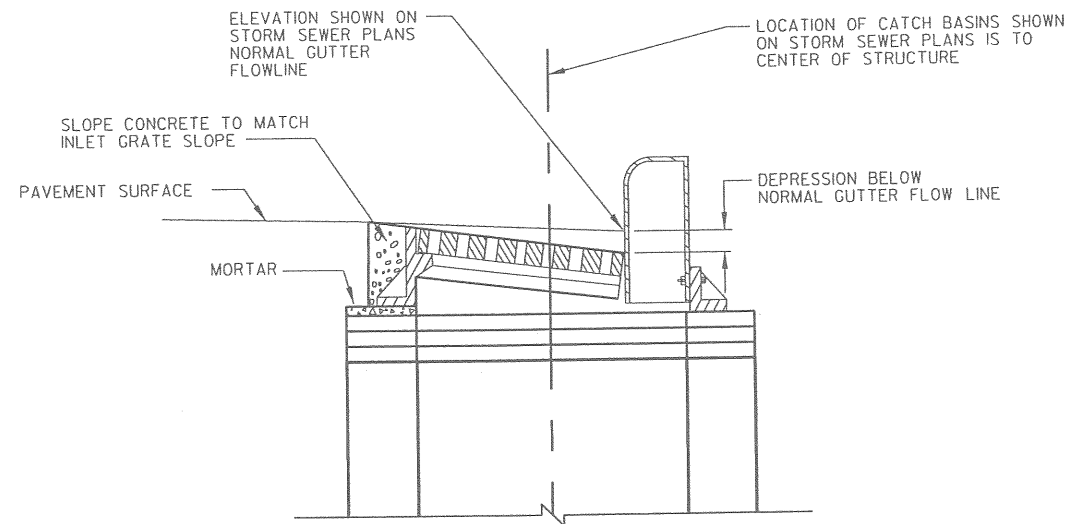
TYPICAL FINISHED SECTION
12TH STREET



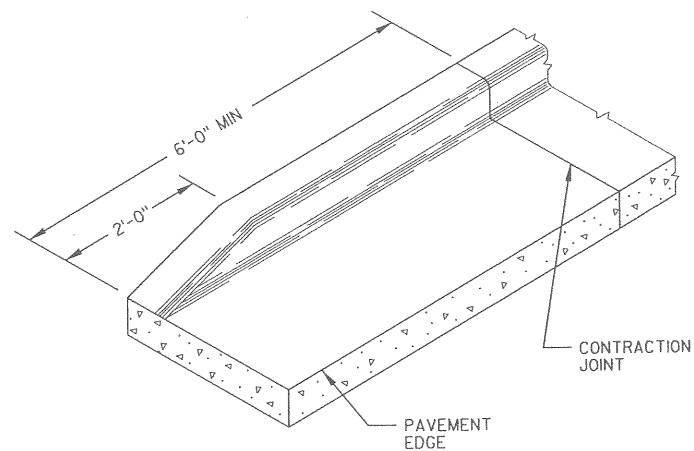
TYPICAL FINISHED SECTION
CUMMING AVENUE
BAXTER AVENUE

NOTE:

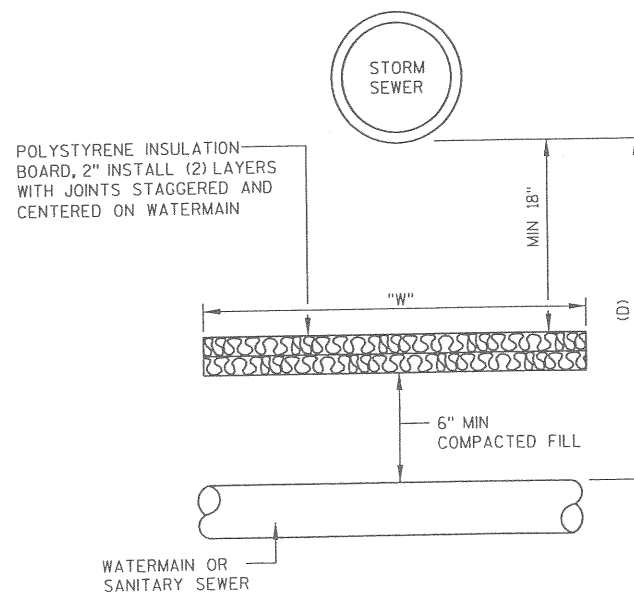
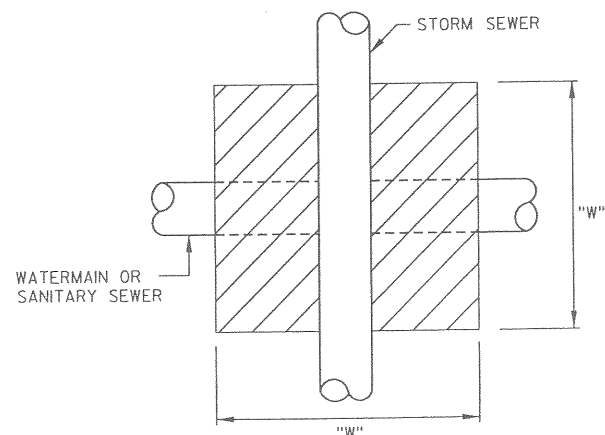
SUB DRAINS SHALL BE PLACED AFTER THE PLACEMENT OF CRUSHED AGGREGATE BASE COURSE, DENSE GRADED AND PRIOR TO THE PLACEMENT OF CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, TO ENSURE THE CRUSHED AGGREGATE BASE COURSE, OPEN GRADED IS DIRECTLY CONNECTED TO THE SUB DRAINS.



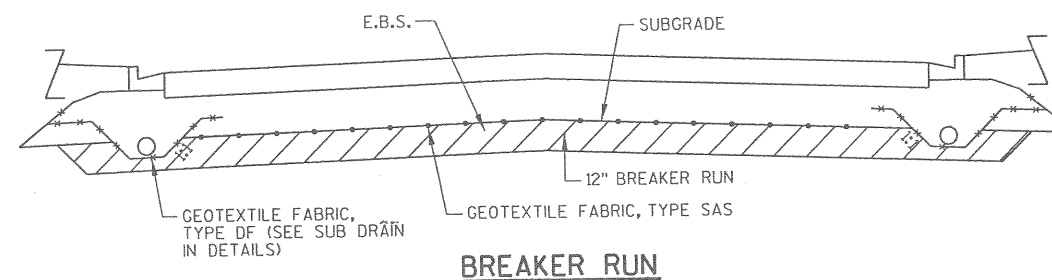
CATCH BASIN LOCATION DETAIL



CURB END TREATMENT



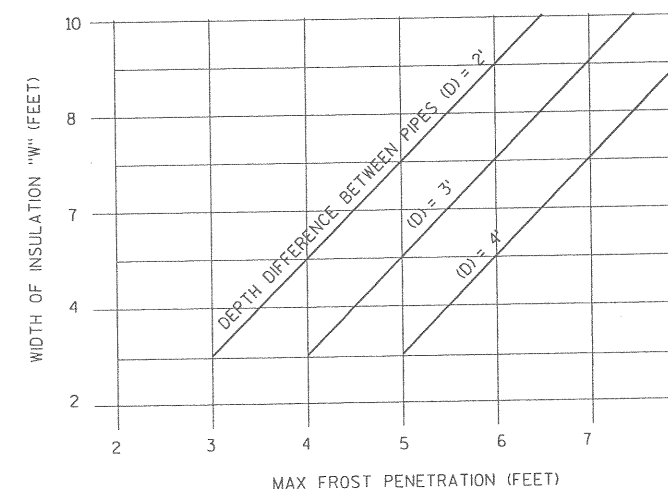
WATERMAIN OR SANITARY INSULATION DETAIL



BREAKER RUN

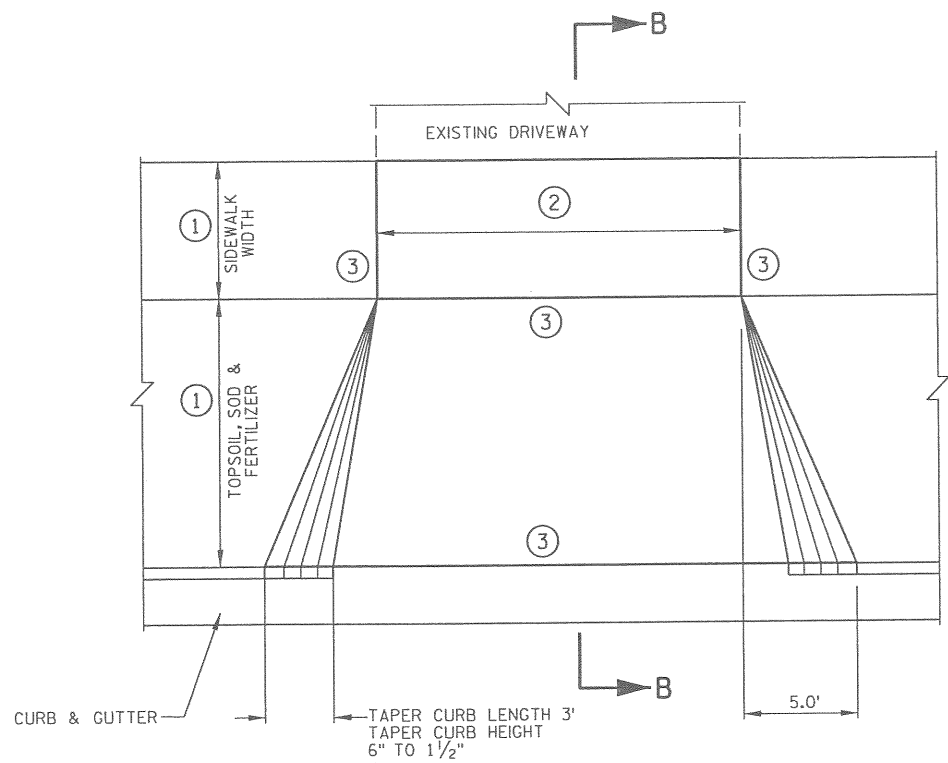
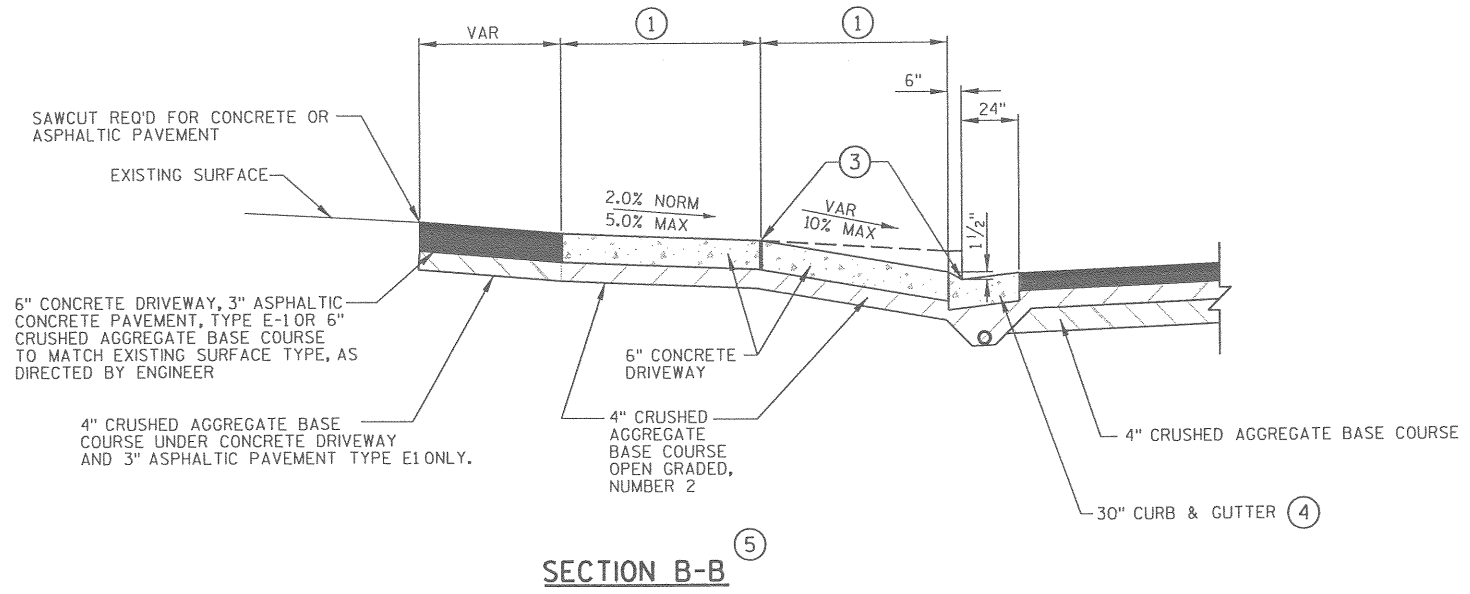
NOTE:

SUB DRAINS SHALL BE PLACED AFTER THE PLACEMENT OF CRUSHED AGGREGATE BASE COURSE, DENSE GRADED AND PRIOR TO THE PLACEMENT OF CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, TO ENSURE THE CRUSHED AGGREGATE BASE COURSE, OPEN GRADED IS DIRECTLY CONNECTED TO THE SUB DRAINS. ALL EBS WILL BE PAID AS COMMON EXCAVATION.



LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



PRIVATE/COMMERCIAL ENTRANCE

- NOTES:
- (1) SEE TYPICAL SECTIONS FOR SIDEWALK AND TERRACE WIDTHS.
 - (2) SEE PLAN/PROFILES FOR DRIVEWAY WIDTHS.
 - (3) 1/2" PREFORMED EXPANSION FILLER BETWEEN CURB AND NEW SIDEWALK AND BETWEEN NEW SIDEWALK AND EXISTING SIDEWALK AND EXISTING CONCRETE DRIVEWAY.
 - (4) SEE TYPICAL SECTIONS FOR CURB TYPE.
 - (5) SEE TYPICAL SECTIONS FOR PLACEMENT OF GEOTEXTILE FABRIC.

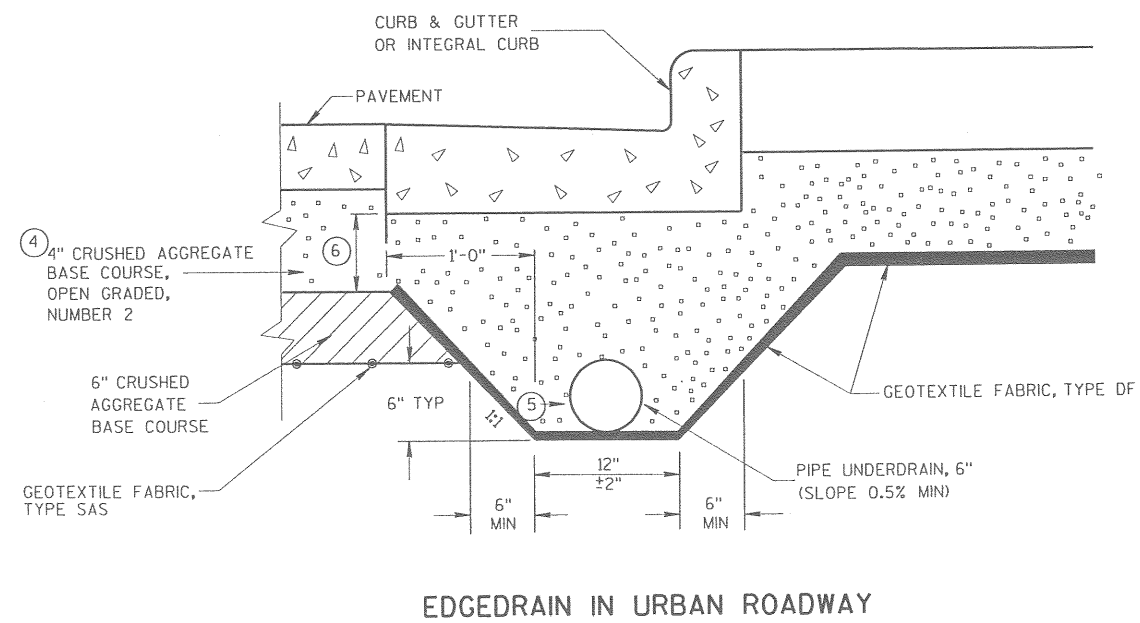
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GENERAL NOTES

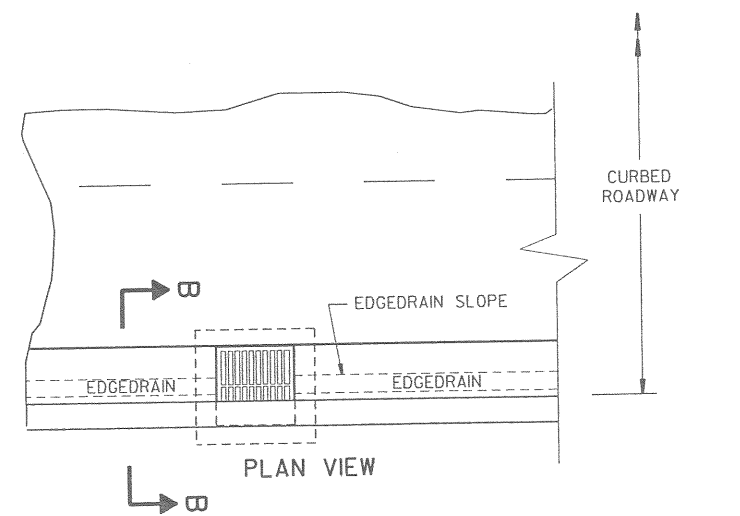
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

- ① UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:
 POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.
 TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.
- ② EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.
- ③ EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY, EXCEPT IN SPECIAL CIRCUMSTANCES AS DIRECTED BY THE ENGINEER IN THE FIELD.
- ④ THE GRADATION OF THE OPEN GRADED BASE COURSE SHALL BE EITHER NO 1 OR NO 2 AS SPECIFIED ELSEWHERE IN THE CONTRACT.
- ⑤ TRENCH BACKFILL WILL BE PAID FOR AS CRUSHED AGGREGATE BASE COURSE, OPEN GRADED NO 1 OR NO 2 AS SPECIFIED.
- ⑥ MAINTAIN A MINIMUM DEPTH OF 4" OF CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NUMBER 2 UNDER THE CONCRETE CURB AND GUTTER.

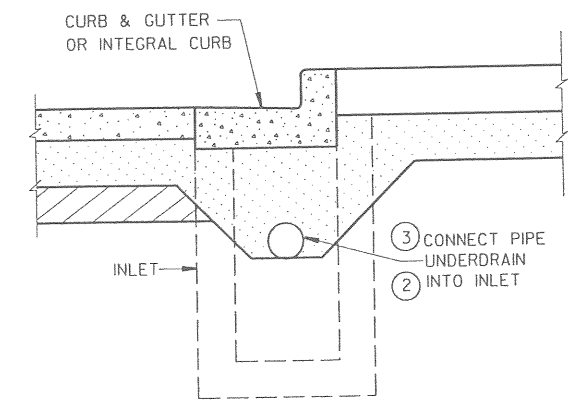


EDGEDRAIN IN URBAN ROADWAY



ROADWAY WITH CURBS
(EDGEDRAIN CONNECTS INTO INLET STRUCTURES)

THIS CONNECTION IS INCIDENTAL TO PLACEMENT OF THE STRUCTURE.



SECTION B-B
URBAN CROSS SECTION

PROJECT NUMBER: SUPER0004.00

HWY: 12TH STREET

COUNTY: DOUGLAS

DETAILS

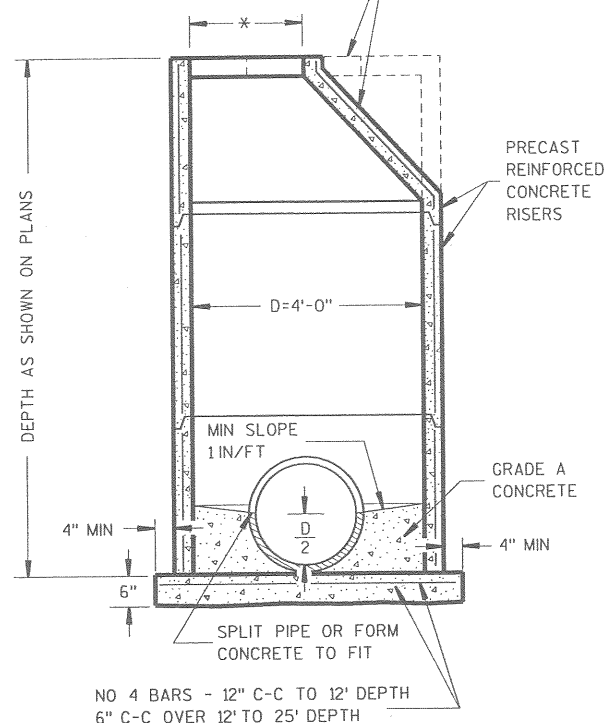
SCALE, FEET 0 NTS

SHEET NO:

E

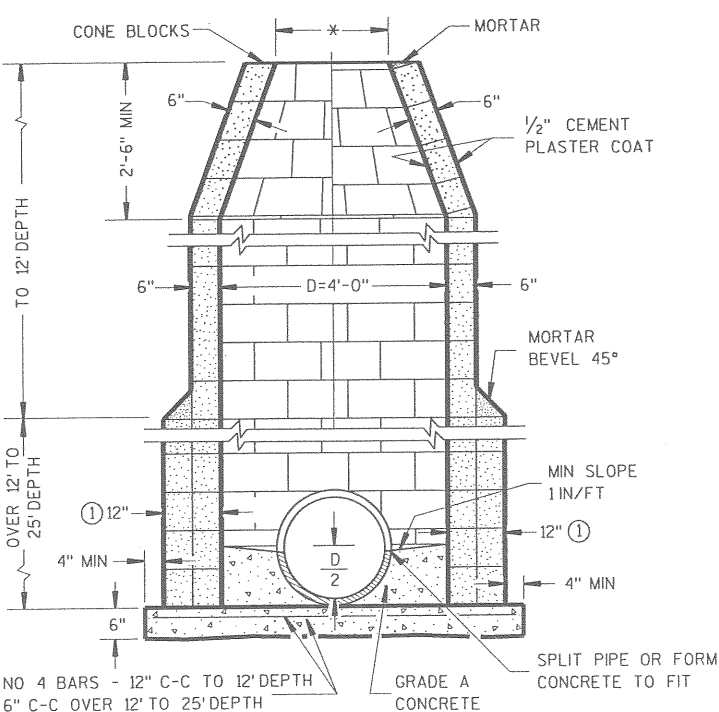
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PRECAST REINFORCED CONCRETE ECCENTRIC OR CONCENTRIC TOP (SEE "GENERAL NOTES")



NO 4 BARS - 12" C-C TO 12' DEPTH
6" C-C OVER 12' TO 25' DEPTH

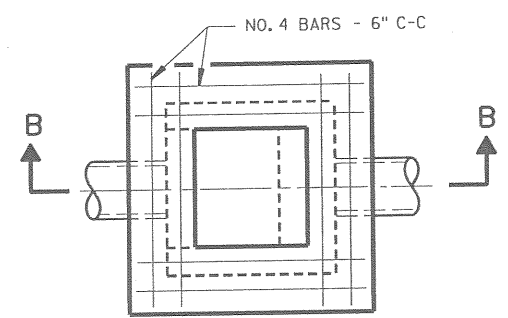
PRECAST REINFORCED CONCRETE



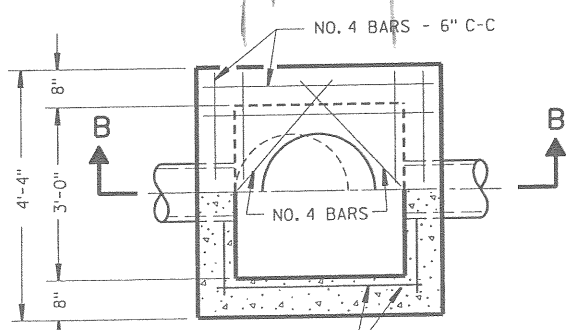
NO 4 BARS - 12" C-C TO 12' DEPTH
6" C-C OVER 12' TO 25' DEPTH

CONCRETE BLOCK

MANHOLES TYPE 1



PLAN VIEW SHOWING ALTERNATE OPENING



HALF SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES; AND BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 300 LBS. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT. STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE.

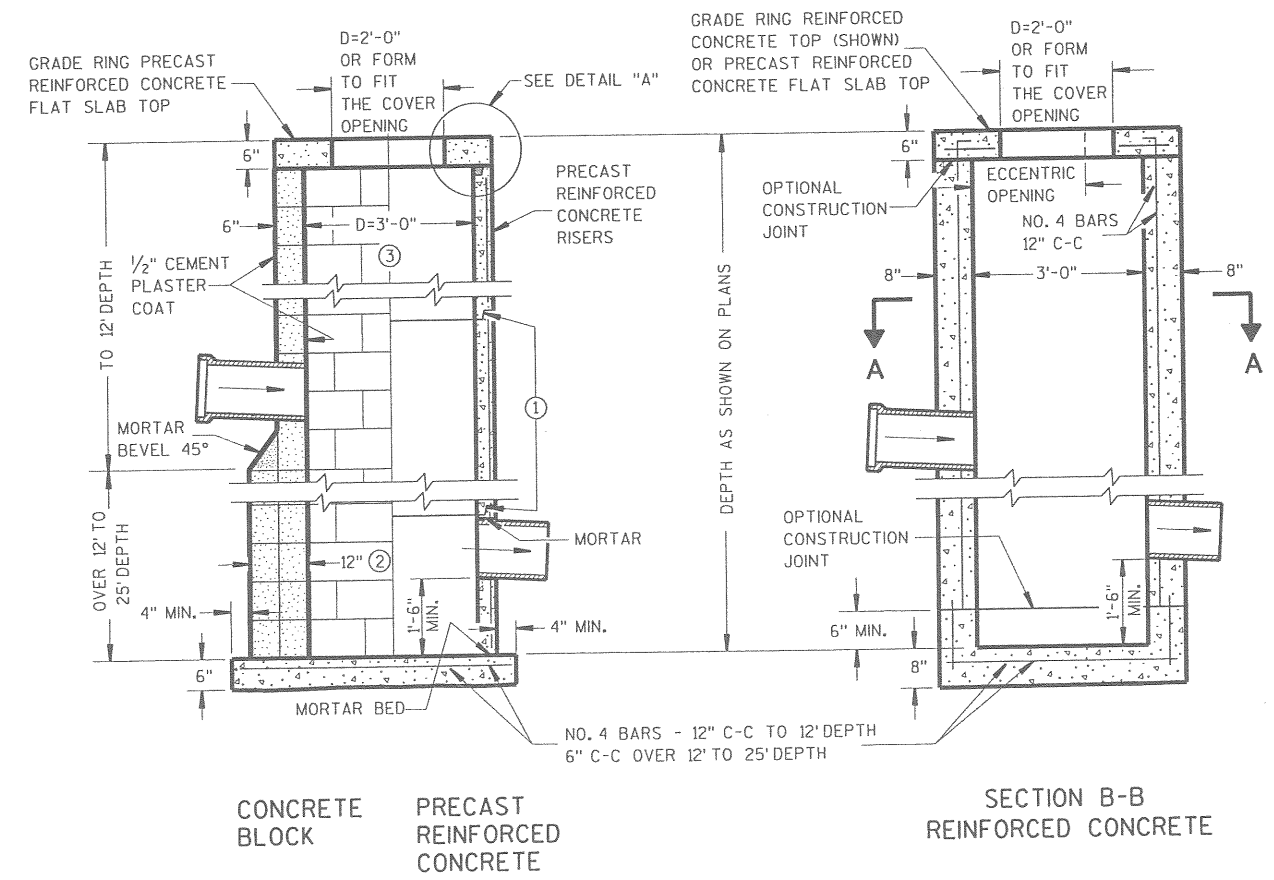
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

* USE 2'-0" DIAMETER OPENING WITH TYPE "C", "L" AND "J" COVERS, OR 3'-0" DIAMETER WITH TYPE "K" AND "M" COVERS.

① 2 COURSES 6" BLOCK.



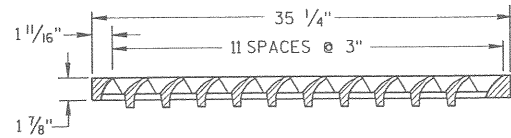
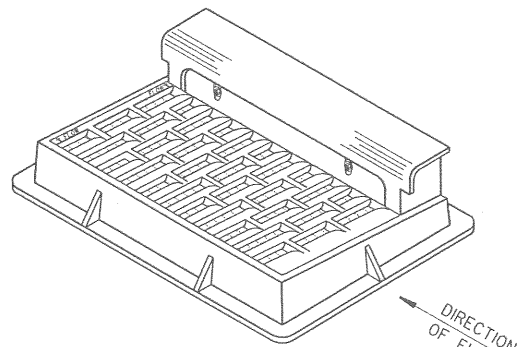
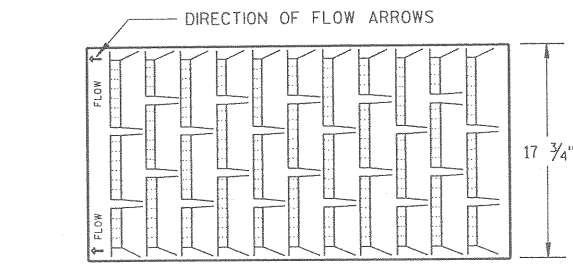
CONCRETE BLOCK

PRECAST REINFORCED CONCRETE

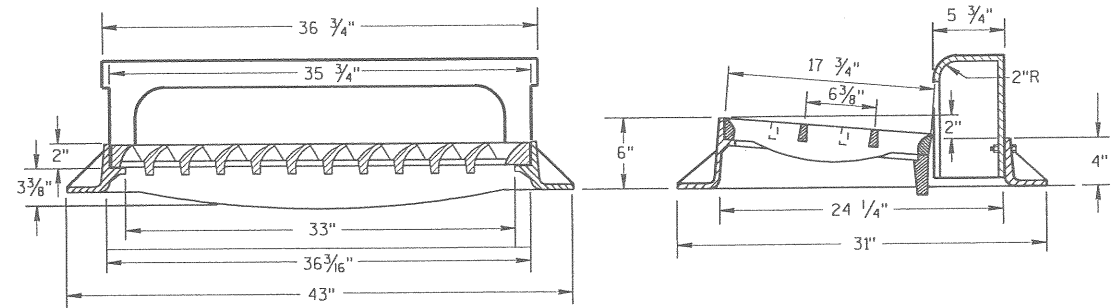
SECTION B-B REINFORCED CONCRETE

CATCH BASINS, TYPE 2

NOTE:
GRATE IS REVERSIBLE.



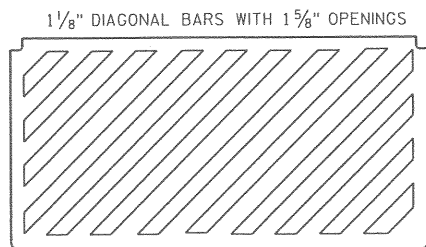
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"



TYPE "H"

(APPROXIMATE WEIGHT 422 LBS)

- FRAME..... 175 LBS
- GRATE..... 138 LBS
- CURB BOX..... 109 LBS



**SPECIAL GRATE FOR
TYPE "H" COVER**

(MEASURES 35 1/4" X 17 3/4" X 2")
(APPROXIMATE WEIGHT 172 LBS)
GRATE..... 172 LBS

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

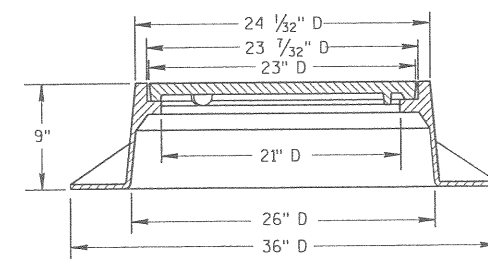
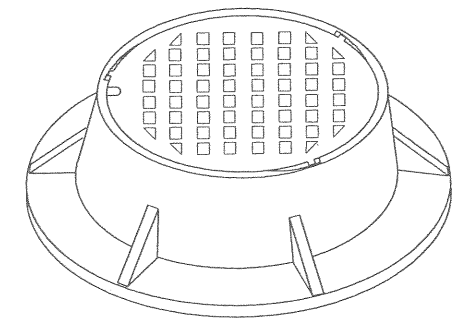
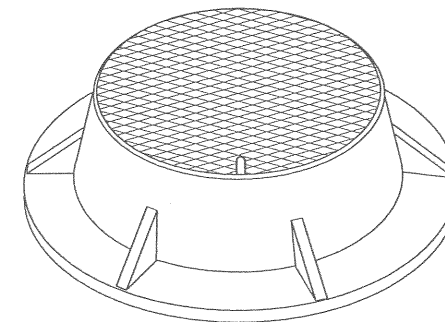
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

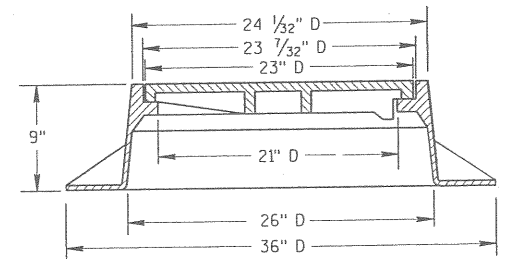
THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.



TYPE "J"

(APPROXIMATE WEIGHT 250 LBS)

- FRAME..... 135 LBS
- LID..... 115 LBS



TYPE "J" SPECIAL

TYPE "B" NON-ROCKING SELF-SEAL LID

(APPROXIMATE WEIGHT 245 LBS)

- FRAME..... 145 LBS
- LID..... 100 LBS

(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

PROJECT NUMBER: SUPER0004.00

HWY: 12TH STREET

COUNTY: DOUGLAS

DETAILS

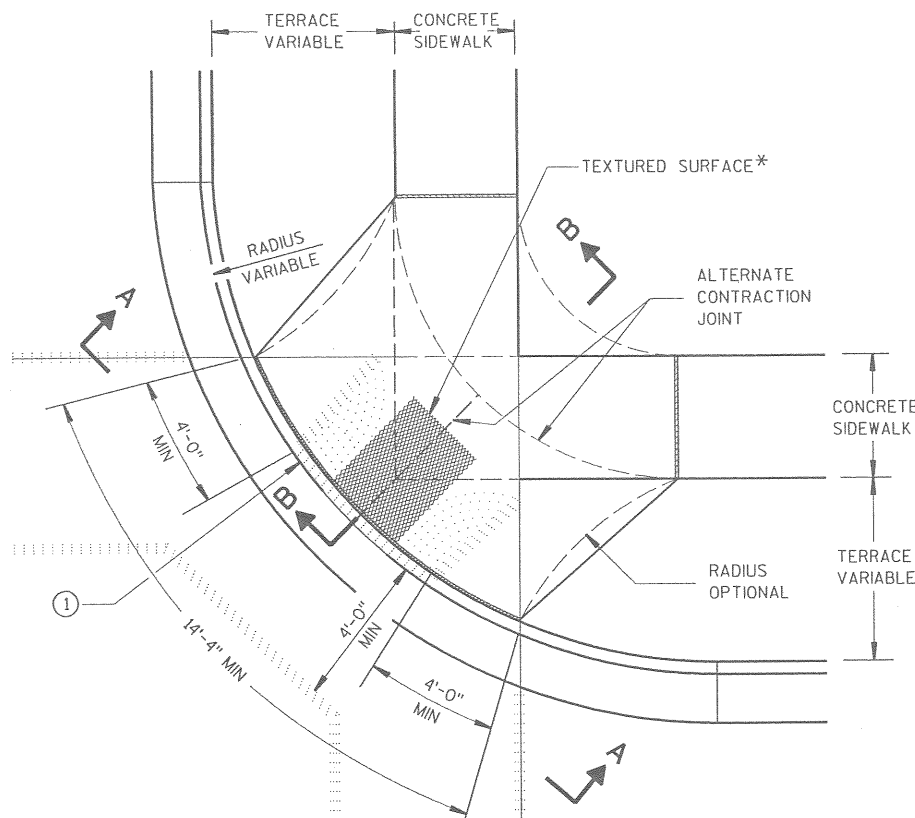
SCALE, FEET



SHEET NO:

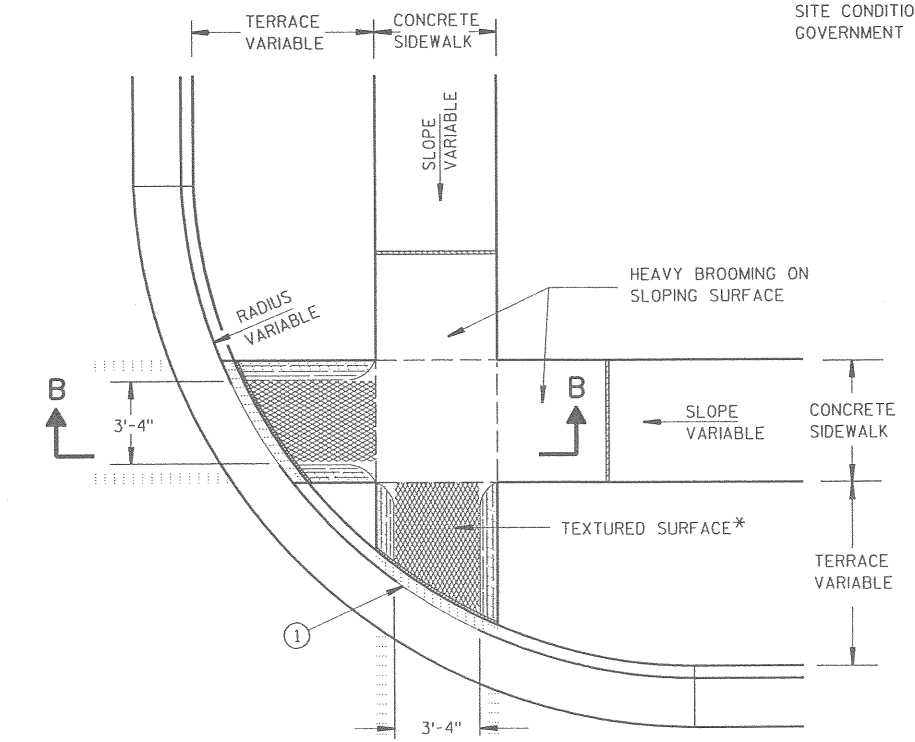
E

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

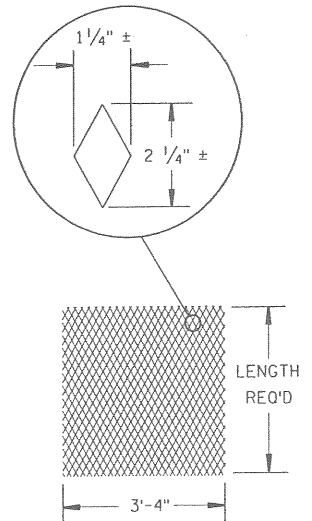


PLAN VIEW
TYPE 1 RAMP
(CENTER OF CORNER RADIUS)

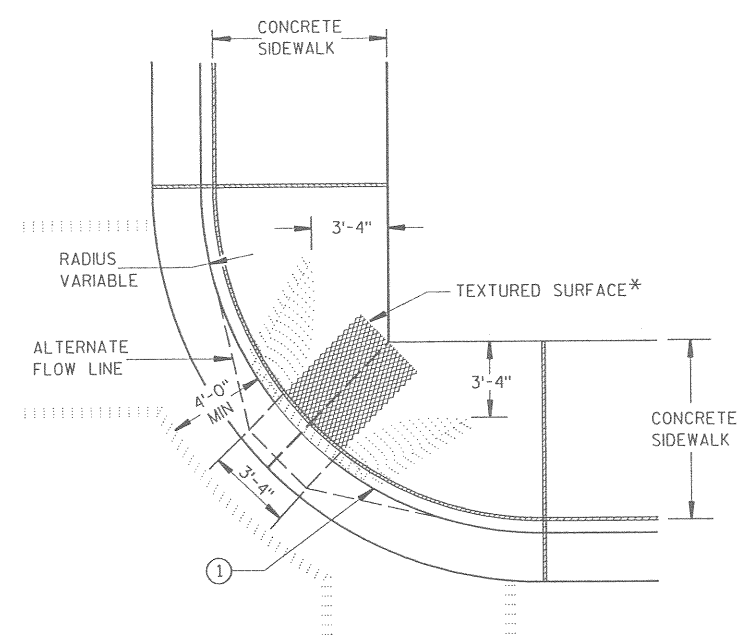
1/2" ——— EXPANSION JOINT-SIDEWALK
 - - - CONTRACTION JOINT
 LOCATION OF JOINTS MAY BE VARIED FROM THOSE SHOWN TO BETTER FIT SITE CONDITIONS AND/OR LOCAL GOVERNMENT PREFERENCE.



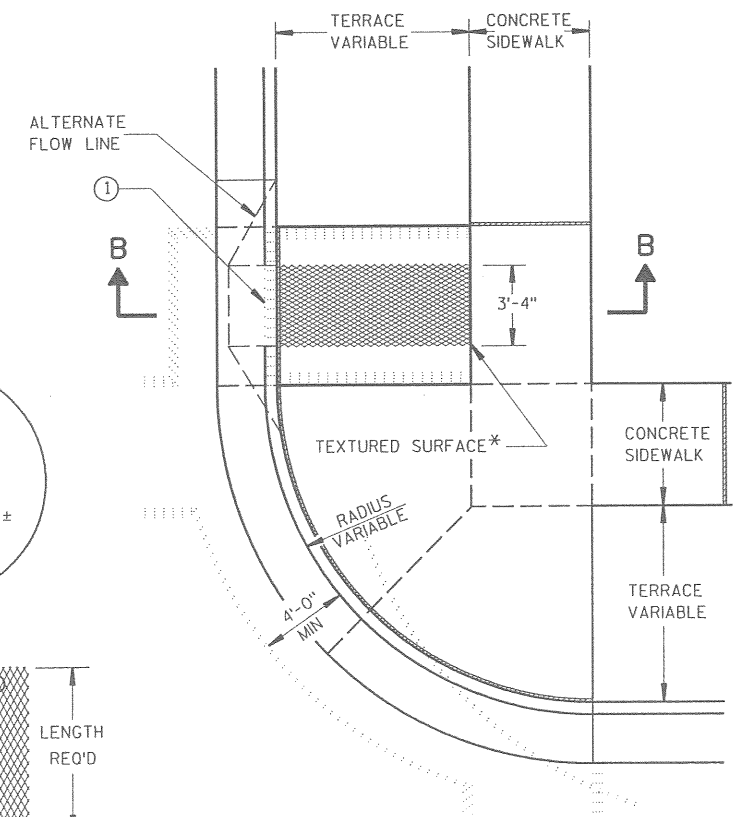
PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)



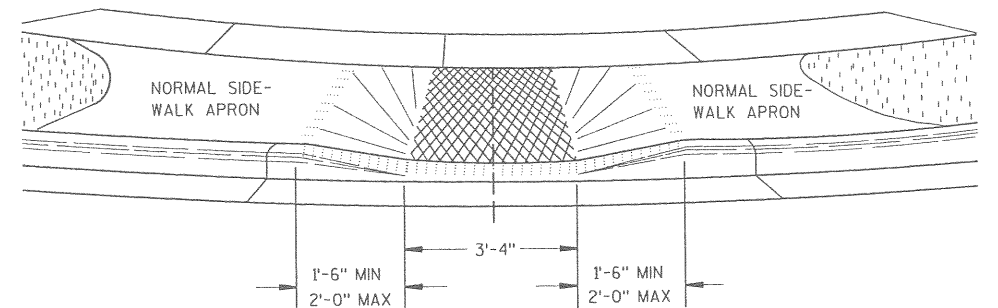
DETAIL OF DIAMOND PATTERN*



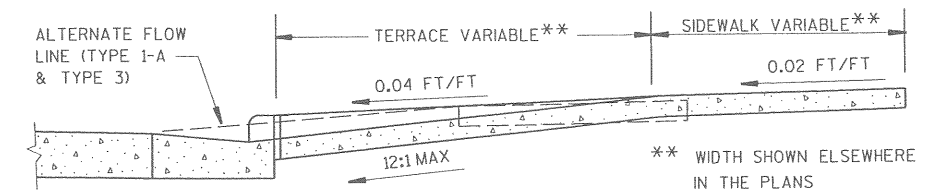
PLAN VIEW
TYPE 1-A RAMP
(NO TERRACE)



PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)



VIEW A-A

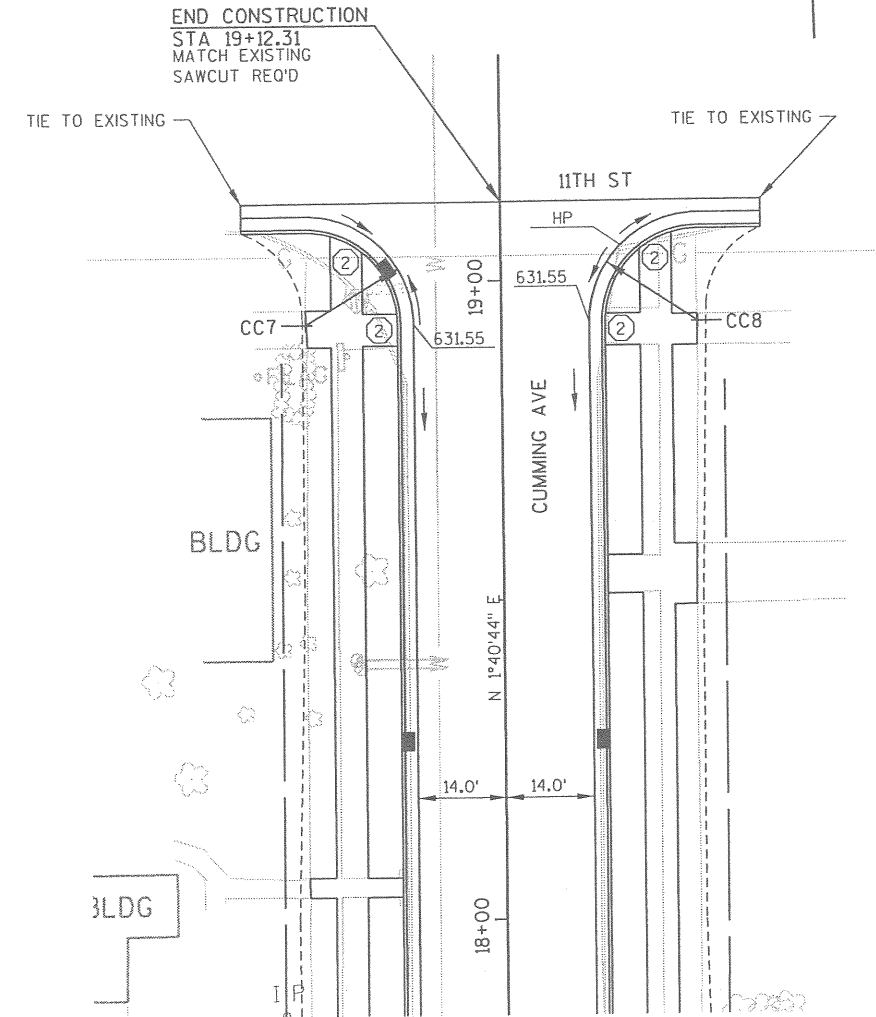
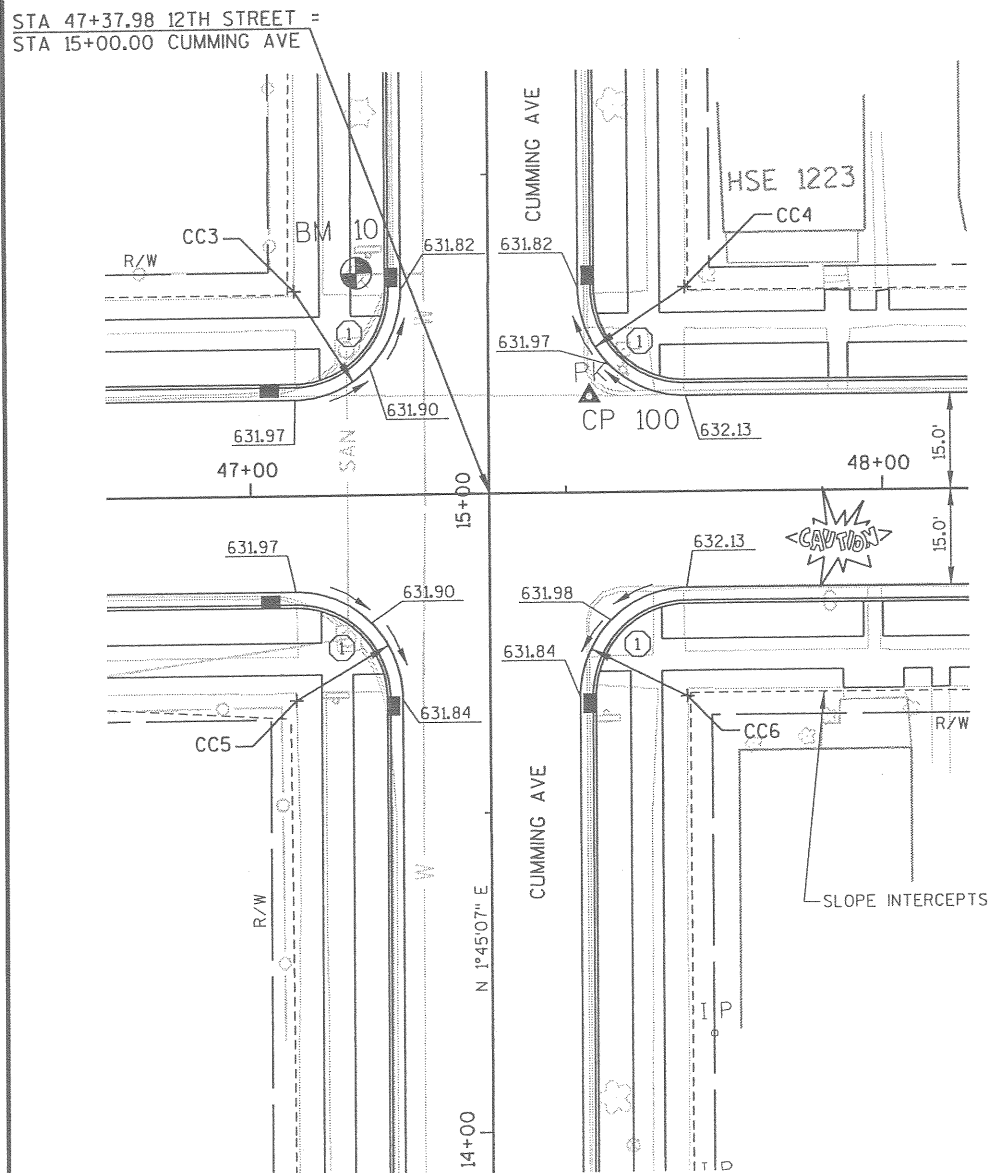
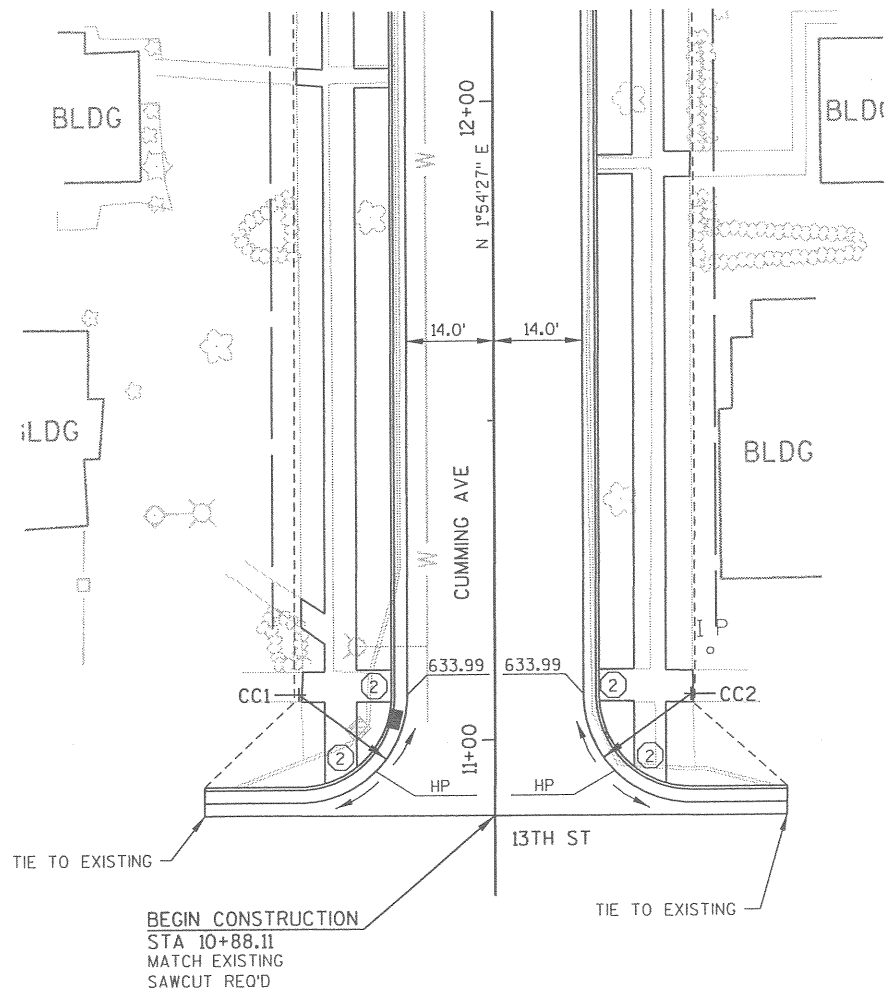


SECTION B-B

GENERAL NOTES

- DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.
- RAMPS SHALL BE BUILT AT 12:1 OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.
- TYPE 1 OR TYPE 1-A RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.
- CURB RAMPS SHALL BE MEASURED AND PAID FOR AS CONCRETE SIDEWALK AND CONCRETE CURB AND GUTTER.
- SURFACE TEXTURING SHALL CONSIST OF LINEAR IMPRESSIONS APPROXIMATELY 1/4 INCH TO 3/8 INCH IN DEPTH AND WIDTH, ORIENTED TO PROVIDE A UNIFORM PATTERN OF DIAMOND SHAPES MEASURING APPROXIMATELY 1 1/4 INCHES IN WIDTH BY 2 1/4 INCHES IN LENGTH, WITH THE LENGTH BEING PARALLEL TO THE DIRECTION OF PEDESTRIAN MOVEMENT. THIS SURFACE TEXTURE MAY BE ACHIEVED BY IMPRESSING AND REMOVING A PIECE OF EXPANDED METAL REGULAR INDUSTRIAL MESH INTO THE SURFACE OF THE RAMP WHILE THE CONCRETE IS IN A PLASTIC STATE.
- ① THE RAMP SHALL BE BORDERED ON BOTH SIDES AND ON THE CURB LINE WITH A 4 INCH WIDE YELLOW PAINT STRIPE OR WITH BRICK OF A CONTRASTING COLOR. NORMALLY THE PAINT STRIPE ALTERNATE WILL BE USED. THE MUNICIPALITY OR THE DEPARTMENT WILL APPLY THIS STRIPING UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.
- IF A MUNICIPALITY REQUIRES THE BRICK ALTERNATE, SPECIAL DETAILS AND PROVISIONS ARE SHOWN ELSEWHERE IN THE PLANS.

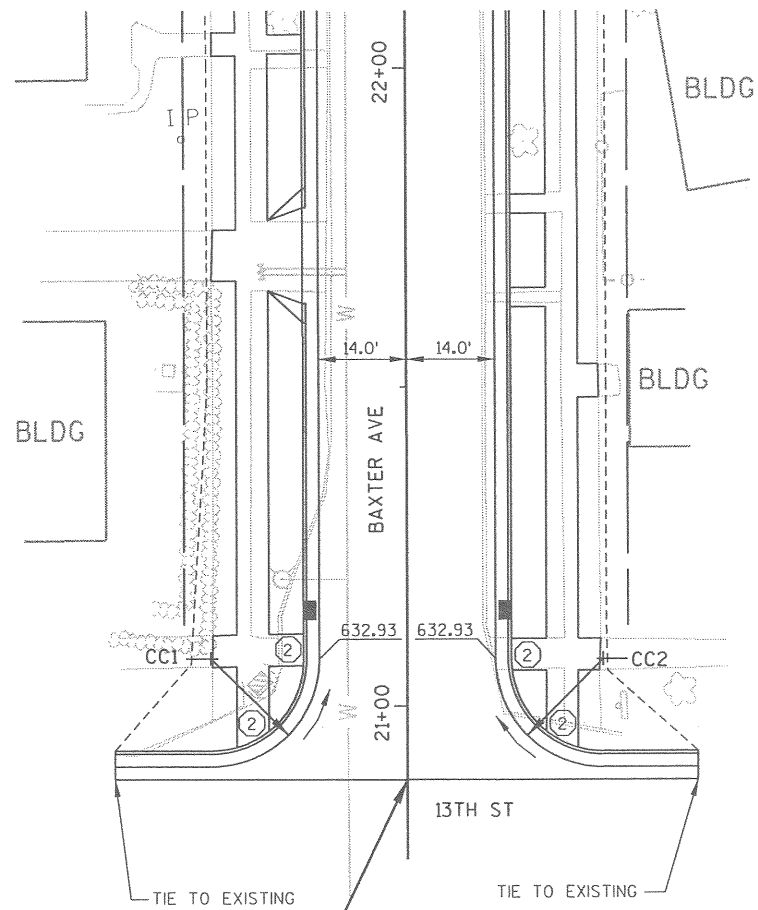
LEVELS ON : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 63



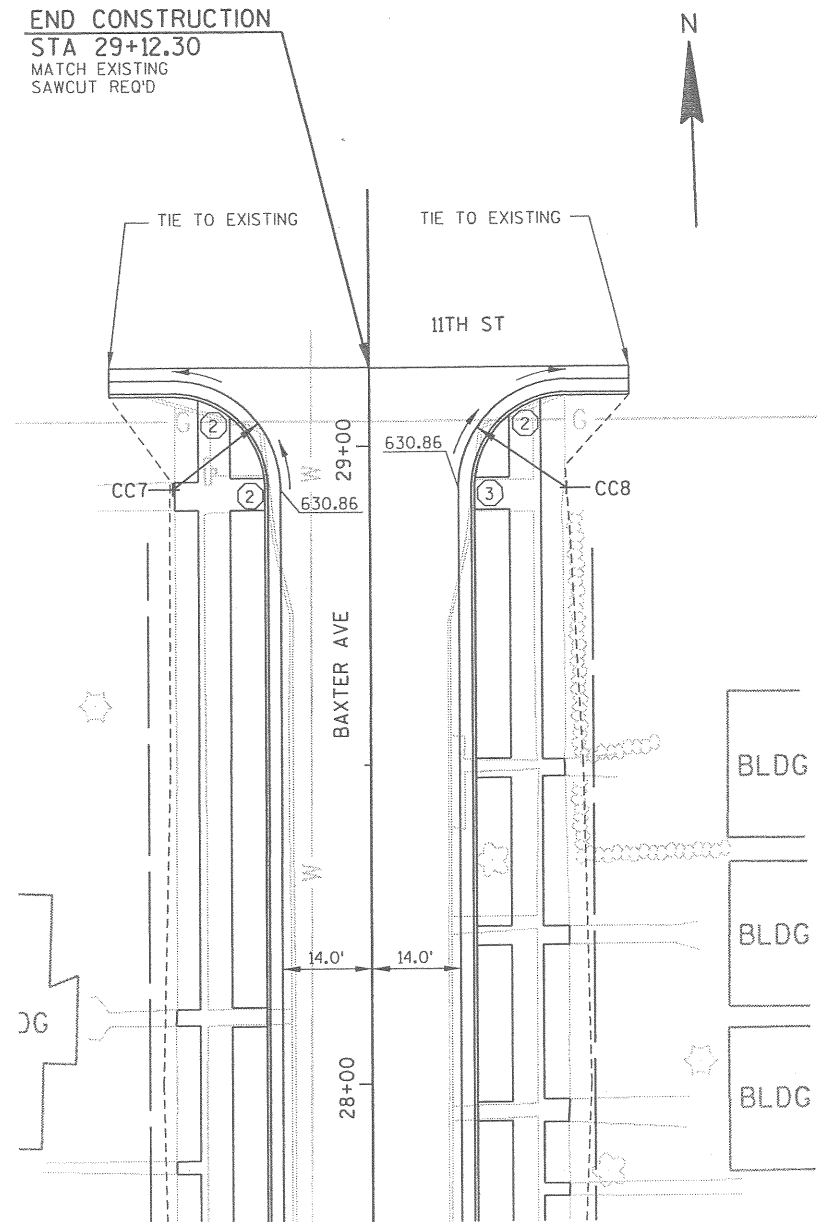
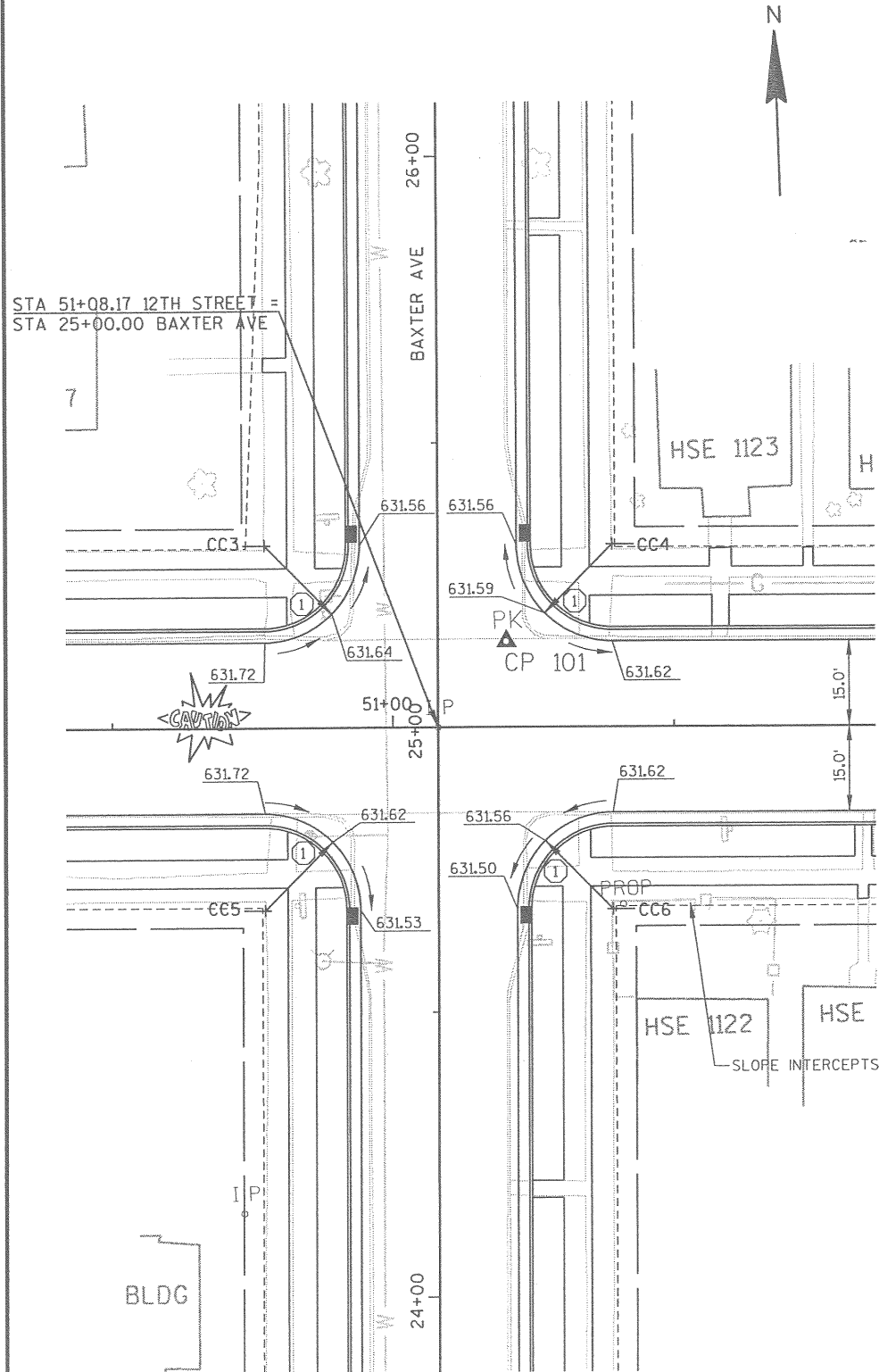
RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	11+07.11 CUMMING AVE	31.0' LT	17.0'	Y = 574531.225 X = 1442740.274
CC2	11+07.11 CUMMING AVE	31.0' RT	17.0'	Y = 574529.161 X = 1442802.240
CC3	47+07.04 12TH STREET	32.0' LT	17.0'	Y = 574955.847 X = 1442753.903
CC4	15+31.96 CUMMING AVE	31.0' LT	17.0'	Y = 574953.887 X = 1442815.872
CC5	47+69.04 12TH STREET	32.0' RT	17.0'	Y = 574891.878 X = 1442751.871
CC6	14+68.03 CUMMING AVE	31.0' LT	17.0'	Y = 574889.919 X = 1442813.839
CC7	47+69.03 12TH STREET	32.0' RT	17.0'	Y = 575316.910 X = 1442765.256
CC8	18+93.31 CUMMING AVE	31.0' RT	17.0'	Y = 575315.093 X = 1442827.229

- ① TYPE 1 CURB RAMP
- ② TYPE 2 CURB RAMP

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 63



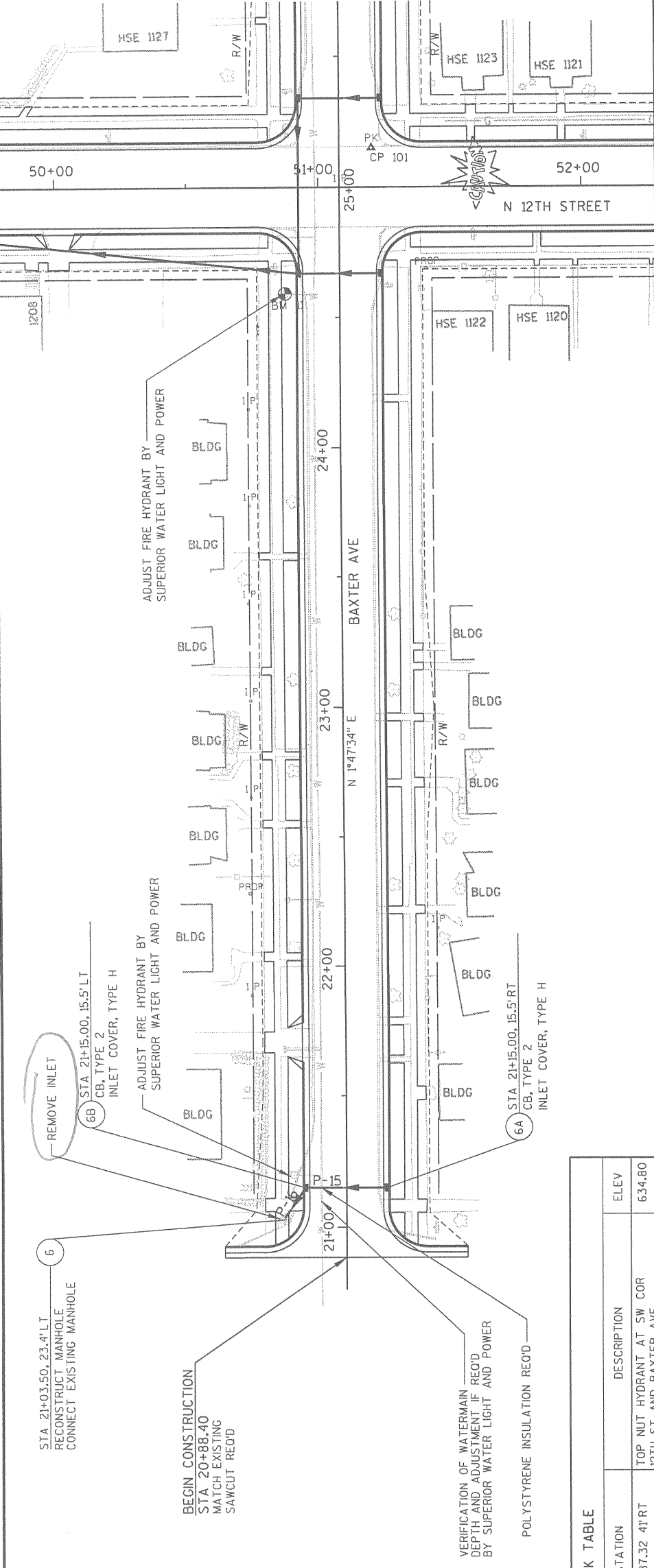
BEGIN CONSTRUCTION
 STA 20+88.40
 MATCH EXISTING
 SAWCUT REQ'D



END CONSTRUCTION
 STA 29+12.30
 MATCH EXISTING
 SAWCUT REQ'D

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	21+07.40 BAXTER AVE	31.0' LT	17.0'	Y = 574519.747 X = 1443110.500
CC2	21+07.40 BAXTER AVE	31.0' RT	17.0'	Y = 574517.807 X = 1443172.469
CC3	50+77.12 12TH STREET 25+32.00 BAXTER AVE	32.0' LT 31.0' LT	17.0'	Y = 574944.152 X = 1443123.796
CC4	51+39.12 12TH STREET 25+32.00 BAXTER AVE	32.0' LT 31.0' RT	17.0'	Y = 574942.193 X = 1443185.765
CC5	50+77.12 12TH STREET 24+68.01 BAXTER AVE	32.0' RT 31.0' RT	17.0'	Y = 574880.183 X = 1443121.781
CC6	51+39.13 12TH STREET 24+67.99 BAXTER AVE	32.0' RT 31.0' RT	17.0'	Y = 574878.223 X = 1443183.750
CC7	28+93.30 BAXTER AVE	31.0' LT	17.0'	Y = 575305.270 X = 1443135.243
CC8	28+93.30 BAXTER AVE	31.0' RT	17.0'	Y = 575303.306 X = 1443197.212

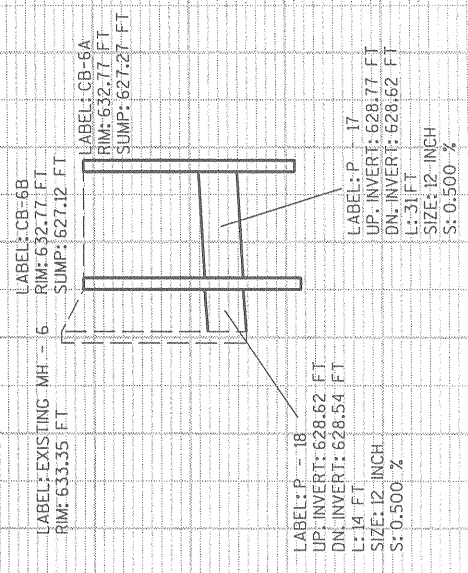
- ① TYPE 1 CURB RAMP
- ② TYPE 2 CURB RAMP
- ③ TYPE 2 CURB RAMP



BENCHMARK TABLE

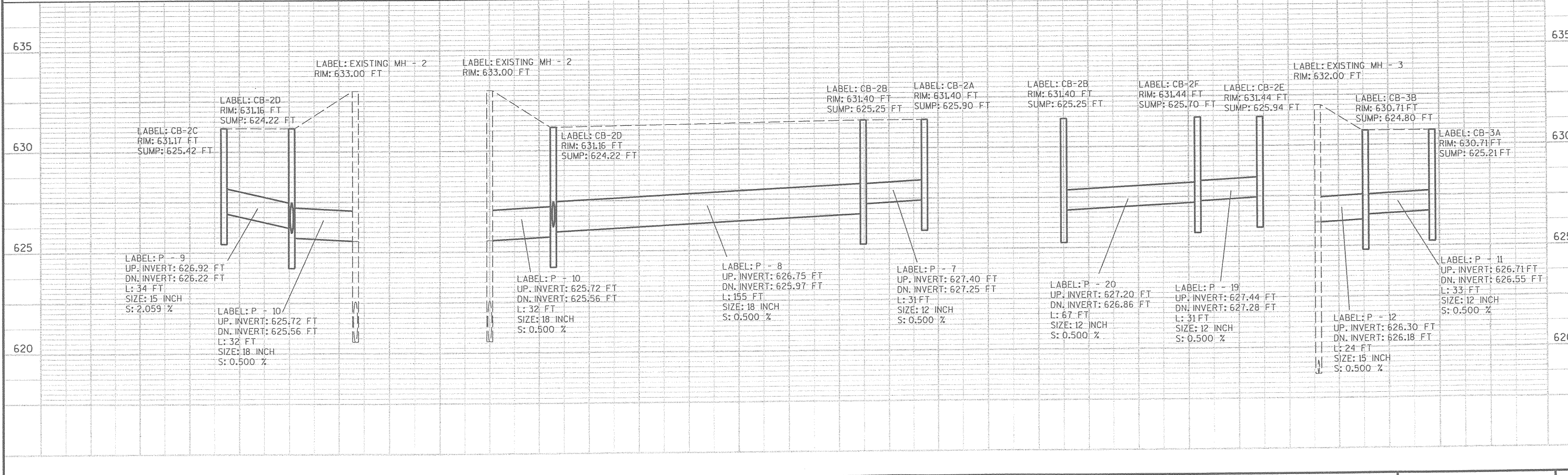
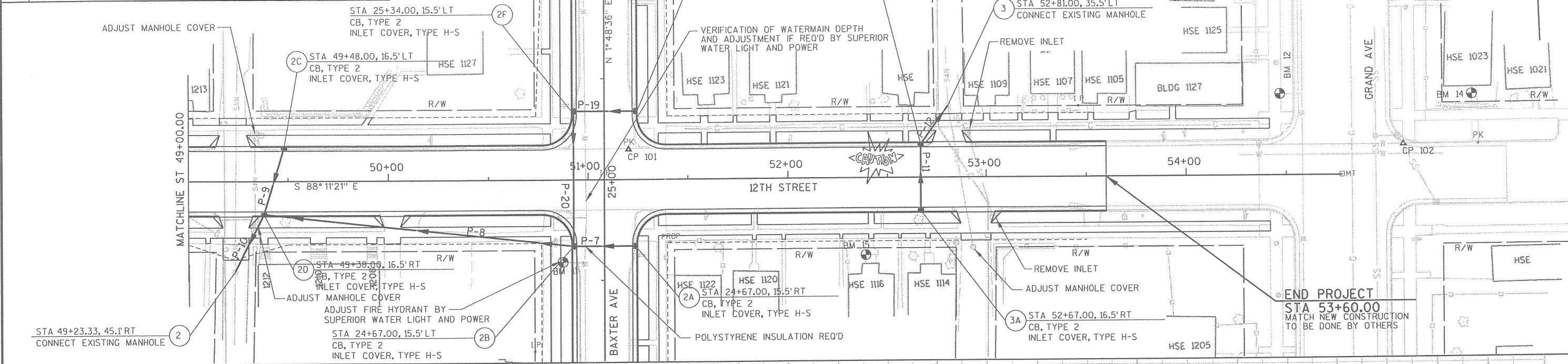
NO	STATION	DESCRIPTION	ELEV
11	50+87.32 41RT	TOP NUT HYDRANT AT SW COR 12TH ST AND BAXTER AVE	634.80

640			
635			
630			
625			



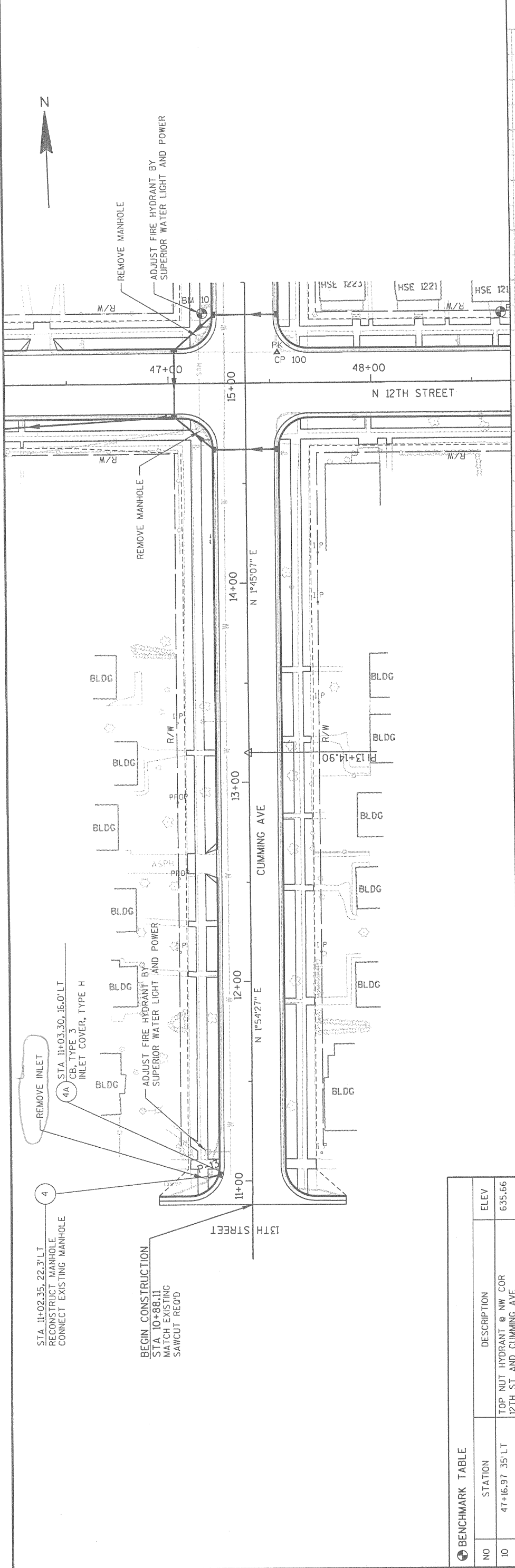
BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
11	50+87.32 41'RT	TOP NUT HYDRANT AT SW COR 12TH ST AND BAXTER AVE	634.80
15	52+39.03 38'RT	TOP OF NW COR BOTTOM STEP AT HOUSE # 1116 12TH ST	633.18
12	54+47.10 40'LT	TOP NUT HYDRANT AT NW COR 12TH ST AND GRAND AVE	633.69
14	55+43.04 39'LT	TOP SW COR BOTTOM STEP AT HOUSE # 1023 NORTH 12TH ST	631.85



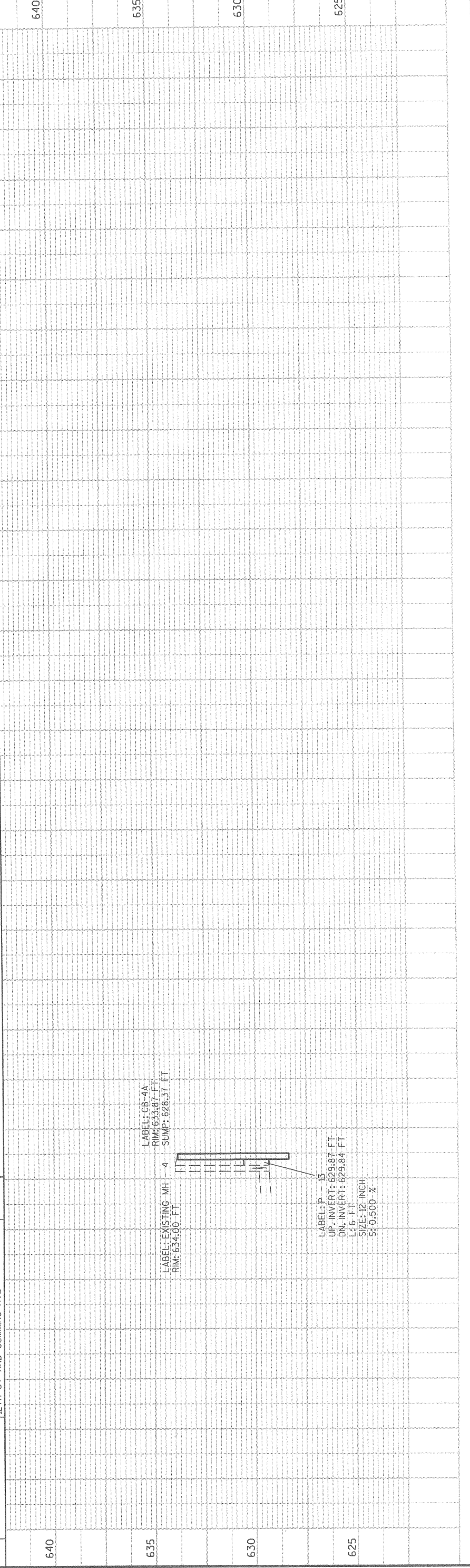
PROJECT NUMBER: SUPER0004.00	HWY: 12TH STREET	COUNTY: 12TH STREET	STORM SEWER	SCALE, FEET	SHEET NO: E
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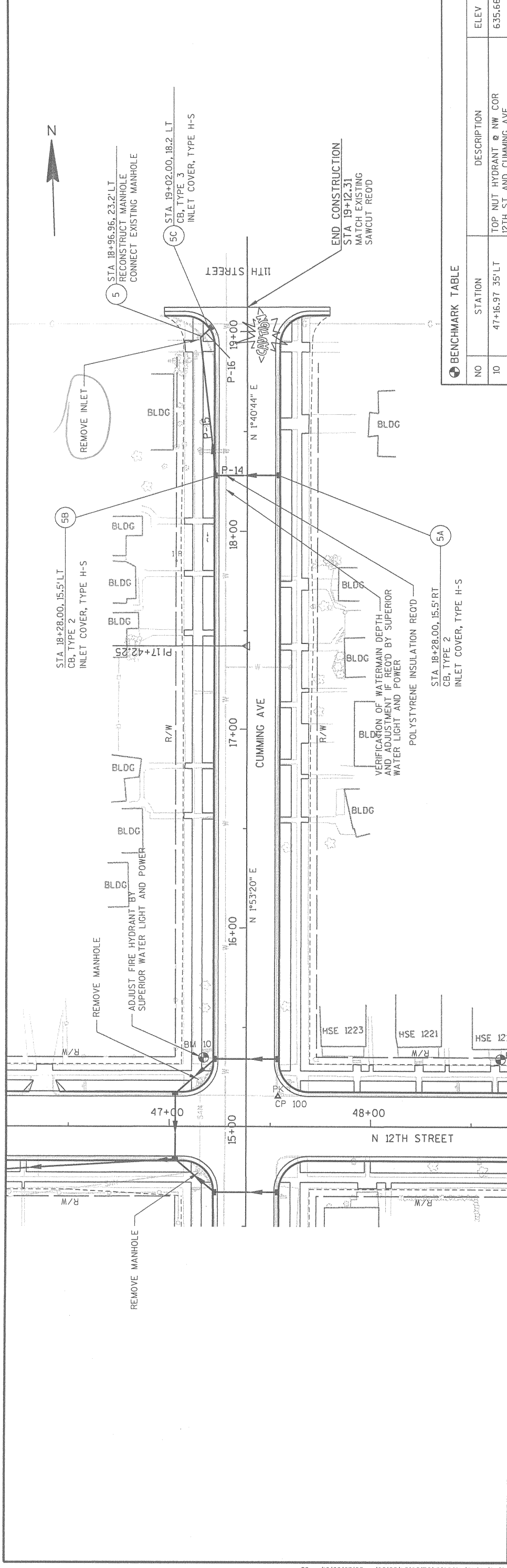
LEVELS: 001 - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
10	47+16.97 35' LT	TOP NUT HYDRANT @ NW COR 12TH ST AND CUMMING AVE	635.66





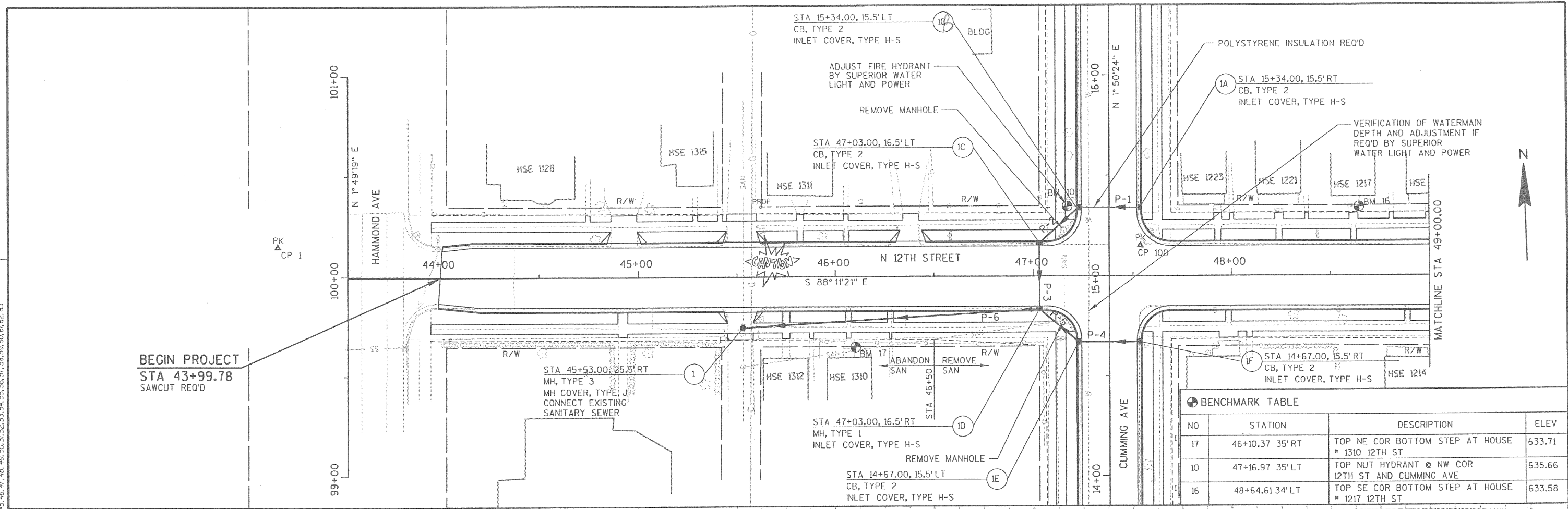
BENCHMARK TABLE		NO	STATION	DESCRIPTION	ELEV
10	47+16.97 35' LT	10	47+16.97 35' LT	TOP NUT HYDRANT @ NW COR 12TH ST AND CUMMING AVE	635.66

635					
630					
625					
620					

PROJECT NUMBER: SUPER0004.00 **HWY: 12TH STREET** **COUNTY: DOUGLAS** **STORM SEWER** **SCALE, FEET** 0 25 50 **SHEET NO: E**

FILE NAME : e:\trons\super\0004\00\cod\ss12h05.dgn PLOT DATE: 03/04/03 PLOT TIME: 02:33:22 PM ORG DATE : PLOT NAME : PLOT SCALE : N/A Originator : Dist WISDOT/CADD'S SHEET 40

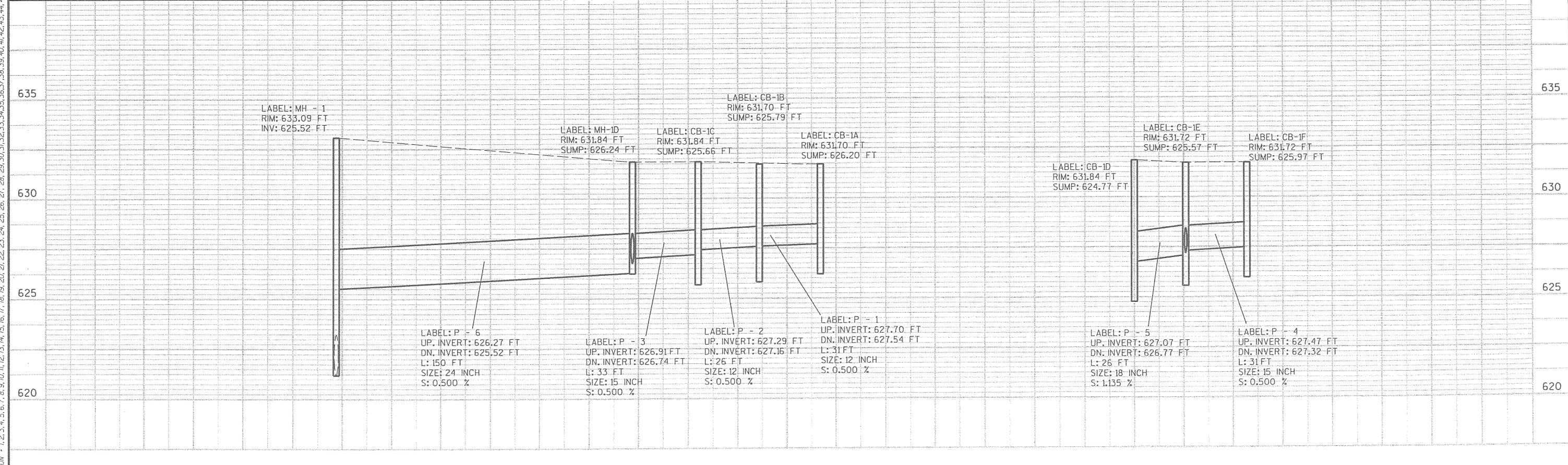
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BEGIN PROJECT
STA 43+99.78
SAWCUT REQ'D

BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
17	46+10.37 35'RT	TOP NE COR BOTTOM STEP AT HOUSE # 1310 12TH ST	633.71
10	47+16.97 35'LT	TOP NUT HYDRANT @ NW COR 12TH ST AND CUMMING AVE	635.66
16	48+64.61 34'LT	TOP SE COR BOTTOM STEP AT HOUSE # 1217 12TH ST	633.58



PROJECT NUMBER: SUPER0004.00	HWY: 12TH STREET	COUNTY: DOUGLAS	STORM SEWER	SCALE, FEET	SHEET NO: E
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LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 63

CLEARING AND GRUBBING

STATION	LOCATION	ID
12TH STREET		
44+28.5	LT	16
45+93.4	LT	10
48+31.2	RT	24
48+55.9	RT	26
49+48.8	RT	4
52+65.9	RT	6
CUMMING AVENUE		
11+37.6	RT	12
11+81.9	LT	12
12+00.3	RT	30
12+66.6	RT	24
12+95.5	LT	12
13+03.2	RT	18
13+18.4	RT	24
13+38.6	LT	12
14+05.3	RT	8
15+59.9	LT	12
15+71.3	LT	12
16+40.8	RT	12
18+54.9	LT	12
BAXTER AVENUE		
21+88.6	RT	10
22+07.6	LT	6
22+31.7	RT	10
22+41.3	LT	6
22+75.8	LT	6
23+06.7	RT	10
23+10.8	LT	6
23+35.8	RT	10
23+79.0	LT	10
25+97.4	LT	30
25+98.7	RT	10
26+29.6	RT	10
26+47.8	LT	6
26+53.2	RT	10
27+53.2	LT	10
28+35.1	RT	10
ITEM TOTALS		446

REMOVING PAVEMENT

STATION	LOCATION	SY	REMARKS
12TH STREET			
43+99.78 - 47+37.98	LT & RT	1349	MAINLINE
44+93.00	LT	15	DRIVEWAY
44+98.61	RT	19	DRIVEWAY
45+52.71	LT	19	ALLEY
47+37.98 - 51+08.17	LT & RT	1558	MAINLINE
49+23.75	RT	12	ALLEY
50+06.45	RT	20	DRIVEWAY
51+08.17 - 53+60.00	LT & RT	1006	MAINLINE
52+96.21	RT	18	ALLEY
CUMMING AVE			
10+88.11 - 14+35.00	LT & RT	1244	SIDEROAD
15+55.00 - 19+12.31	LT & RT	1255	SIDEROAD
BAXTER AVENUE			
20+88.40 - 24+45.00	LT & RT	1038	SIDEROAD
21+70.43	LT	14	DRIVEWAY
25+60.00 - 29+12.30	LT & RT	1006	SIDEROAD
ITEM TOTAL		8573	

REMOVING CURB

STATION TO STATION	LOCATION	LF
12TH STREET		
43+99.78 - 47+37.98	LT	359
43+99.78 - 47+37.98	RT	354
47+37.98 - 51+08.17	LT	411
47+37.98 - 51+08.17	RT	417
51+08.17 - 53+41.54	LT	345
51+08.17 - 53+41.54	RT	345
CUMMING AVE		
10+88.11 - 14+35.00	LT	362
10+88.11 - 14+35.00	RT	367
15+55.00 - 19+12.31	LT	367
15+55.00 - 19+12.31	RT	373
BAXTER AVE		
20+88.40 - 24+45.00	LT	371
20+88.40 - 24+45.00	RT	378
25+60.00 - 29+12.30	LT	368
25+60.00 - 29+12.30	RT	368
ITEM TOTALS		5185

REMOVING CURB AND GUTTER

STATION TO STATION	LOCATION	LF
12TH STREET		
53+41.54 - 53+60.00	LT	19
53+41.54 - 53+60.00	RT	19
ITEM TOTALS		38

REMOVING CONCRETE SIDEWALK

STATION TO STATION	LOCATION	SY
12TH STREET		
43+99.78 - 47+37.98	LT	223
43+99.78 - 47+37.98	RT	218
47+37.98 - 51+08.17	LT	263
47+37.98 - 51+08.17	RT	255
51+08.17 - 53+60.00	LT	207
51+08.17 - 53+60.00	RT	213
CUMMING AVE		
10+88.11 - 14+35.00	LT	188
10+88.11 - 14+35.00	RT	239
15+55.00 - 19+12.31	LT	197
15+55.00 - 19+12.31	RT	253
BAXTER AVE		
20+88.40 - 24+45.00	LT	227
20+88.40 - 24+45.00	RT	227
25+60.00 - 29+12.30	LT	209
25+60.00 - 29+12.30	RT	210
ITEM TOTAL		3129

EARTHWORK SUMMARY

STATION	LOCATION	COMMON EXCAVATION CY	EXP (30%) FILL CY	WASTE CY
12TH STREET				
43+99.78 - 54+60.00	12TH STREET	2066	6	2060
	EBS	207		
CUMMING AVENUE				
10+88.11 - 19+12.31	CUMMING AVENUE	1552	7	1545
	EBS	155		
BAXTER AVENUE				
20+88.40 - 29+12.30	BAXTER AVENUE	1455	18	1437
	EBS	146		
ITEM TOTALS		5581	31	5042

BASE COURSE

STATION	LOCATION	CRUSHED AGGREGATE BASE COURSE TON	CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NUMBER 2 TON
12TH STREET			
43+99.78 - 47+00.00	LT & RT	343	512
44+92.8	LT	6	
45+51.7	RT	6	
45+52.3	LT	9	
46+38.3	LT	5	
47+00.00 - 48+00.00	LT & RT	159	170
48+00.00 - 50+50.00	LT & RT	287	426
49+22.4	LT	7	
49+23.8	RT	6	
50+00.3	RT	4	
50+50.00 - 51+50.00	LT & RT	159	170
51+50.00 - 53+60.00	LT & RT	241	358
52+81.4	LT	6	
52+94.8	RT	8	
CUMMING AVE			
10+88.11 - 14+72.00	LT & RT	418	654
15+28.00 - 19+12.31	LT & RT	418	655
BAXTER AVE			
20+88.40 - 24+72.00	LT & RT	418	654
25+28.00 - 29+12.30	LT & RT	418	655
ITEM TOTAL		2918	4254

BREAKER RUN STONE

STATION TO STATION	LOCATION	TONS
43+99.78 - 53+60.00		
	UNDISTRIBUTED	824
ITEM TOTAL		824

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

ASPHALTIC CONCRETE PAVEMENT				
STATION	LOCATION	ASPHALTIC		
		CONCRETE PAVEMENT, TYPE E-1 TONS	MATERIAL FOR TACK COAT GAL	MATERIAL FOR PLANT MIXES TONS
12TH STREET				
43+99.78 - 47+37.98	LT & RT	267	30	16
47+37.98 - 51+08.17	LT & RT	306	34	18
51+08.17 - 53+60.00	LT & RT	203	23	12
45+51.7	LT & RT	2		
49+22.4	LT	1		
49+23.8	RT	4		
52+44.8	RT	1		
52+81.4	LT	1		
CUMMING AVE				
10+88.11 - 14+68.02	LT & RT	271	30	16
15+32.00 - 19+12.31	LT & RT	271	30	16
12+59.6	LT	1		
BAXTER AVE				
20+88.40 - 24+67.98	LT & RT	271	30	16
25+31.98 - 29+12.30	LT & RT	271	30	16
ITEM TOTALS		1870	207	112

CONCRETE DRIVEWAY, 6-INCH		
STATION	LOCATION	SY
12TH STREET		
44+92.8	LT	22
45+51.7	RT	23
45+52.3	LT	20
46+38.3	LT	19
49+22.4	LT	24
49+23.8	RT	23
50+00.3	RT	15
52+81.4	LT	18
52+94.8	RT	21
CUMMING AVENUE		
12+59.6	LT	19
BAXTER AVENUE		
21+70.6	LT	19
ITEM TOTAL		223

CONCRETE CURB & GUTTER, 30-INCH, TYPE A		
STATION TO STATION	LOCATION	LF
12TH STREET		
43+99.78 - 47+37.98	LT	329
43+99.78 - 47+37.98	RT	332
47+37.98 - 51+08.17	LT	355
47+37.98 - 51+08.17	RT	355
51+08.17 - 53+60.00	LT	244
51+08.17 - 53+60.00	RT	244
CUMMING AVE		
10+88.11 - 14+68.03	LT	399
10+88.11 - 14+68.03	RT	399
15+31.96 - 19+12.31	LT	395
15+31.96 - 19+12.31	RT	395
BAXTER AVE		
20+88.40 - 24+68.00	LT	399
20+88.40 - 24+68.00	RT	399
25+32.00 - 29+12.30	LT	395
25+32.00 - 29+12.30	RT	395
ITEM TOTAL		5035

CONCRETE SIDEWALK, 4-INCH		
STATION TO STATION	LOCATION	SF
12TH STREET		
43+99.78 - 47+37.98	LT	1523
43+99.78 - 47+37.98	RT	1700
47+37.98 - 51+08.17	LT	1772
47+37.98 - 51+08.17	RT	1734
51+08.17 - 53+60.00	LT	1707
51+08.17 - 53+60.00	RT	1585
CUMMING AVE		
10+88.11 - 14+72.02	LT	1980
10+88.11 - 14+72.02	RT	2081
15+27.97 - 19+12.31	LT	2081
15+27.97 - 19+12.31	RT	2181
BAXTER AVE		
20+88.40 - 24+72.01	LT	2002
20+88.40 - 24+72.01	RT	2105
25+28.00 - 29+12.30	LT	2060
25+28.00 - 29+12.30	RT	2088
ITEM TOTAL		26599

622.5
10.57

STORM SEWER																										
STRUCTURE NUMBER	STATION	LOCATION	RECONSTRUCT MANHOLES EACH	REMOVING MANHOLE EACH	REMOVING INLETS EACH	ADJUST MANHOLE COVERS EACH	MANHOLES,		MANHOLE COVERS, TYPE J EACH	CATCH BASINS,		INLET COVERS		INLET PROTECTION		GRATE OR RIM ELEV	MANHOLE OR BOX INVERT ELEV	CATCH BASIN SUMP ELEV	MANHOLE OR BOX DEPTH LF	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER				DRAINS TO STRUCTURE (MH/CB) NUMBER	% SLOPE	CONNECT EXISTING SANITARY SEWER OR MANHOLE EACH
							TYPE 1 EACH	TYPE 3 EACH		TYPE 2 EACH	TYPE 3 EACH	TYPE H EACH	TYPE H-S EACH	TYPE A EACH	TYPE C EACH					12" LF	15" LF	18" LF	24" LF			
1	45+53.00	25.5' RT					1		1							633.09	625.52	626.20	7.57					EXISTING	0.50	1
1A	15+34.00	15.5' RT														631.70	625.79	5.50					1B	0.50		
1B	15+34.00	15.5' LT														631.70	625.66	5.91			33		1C	0.50		
1C	47+03.00	16.5' LT														631.84	625.66	6.18					1D	0.50		
1D	47+03.00	16.5' RT														631.84	625.57	5.60				150	1E	0.50		
1E	14+67.00	15.5' LT														631.72	625.57	6.15					1D	0.50		
1F	14+67.00	15.5' RT														631.72	625.97	5.75			31		1E	0.50		
2	49+23.33	45.1' RT																						EXISTING	0.50	1
2A	24+67.00	15.5' RT														631.40	625.9	5.50					2B	0.50		
2B	24+67.00	15.5' LT														631.40	625.25	6.15				155	2D	0.50		
2C	49+48.00	16.5' LT														631.17	625.42	5.75			34		2D	2.06		
2D	49+38.00	16.5' RT														631.16	624.22	6.94				32	2	0.50		
2E	25+34.00	15.5' RT														631.44	625.94	5.50					2F	0.50		
2F	25+34.00	15.5' LT														631.44	625.70	5.74			67		2B	0.50		
3	52+81.00	35.5' LT																						EXISTING	0.50	1
3A	52+67.00	16.5' RT														630.71	625.21	5.50					3B	0.50		
3B	52+67.00	16.5' LT														630.71	624.80	5.91			24		3	0.50		
4	11+01.78	21.8' LT	1						1															EXISTING	0.50	1
4A	11+03.30	16.0' LT									1		1			633.87	628.37	5.50					4	0.50		
5	18+96.96	23.2' LT	1																					EXISTING	0.50	1
5A	18+28.00	15.5' RT														631.15	625.65	5.50					5B	0.50		
5B	18+28.00	15.5' LT														631.15	625.25	5.90			70		5	0.50		
5C	19+02.00	18.2' LT														631.32	625.82	5.50					5	0.50		
6	21+03.50	23.4' LT	1																					EXISTING	0.50	1
6A	21+15.00	15.5' RT														632.77	627.27	5.50					6B	0.50		
6B	21+15.00	15.5' LT														632.77	627.12	5.65			14		6	0.50		
ITEM TOTALS			3	2	5	3	1	1	4	18	2	3	17	20	20							308	192	213	150	6

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 63

PIPE UNDERDRAIN, 6-INCH		
STATION TO STATION	LOCATION	LF
12TH STREET		
43+99.78 - 47+37.98	LT	329
43+99.78 - 47+37.98	RT	332
47+37.98 - 51+08.17	LT	355
47+37.98 - 51+08.17	RT	355
51+08.17 - 53+60.00	LT	244
51+08.17 - 53+60.00	RT	244
CUMMING AVE		
10+88.11 - 14+68.03	LT	399
10+88.11 - 14+68.03	RT	399
15+31.96 - 19+12.31	LT	395
15+31.96 - 19+12.31	RT	395
BAXTER AVE		
20+88.40 - 24+68.00	LT	399
20+88.40 - 24+68.00	RT	399
25+32.00 - 29+12.30	LT	395
25+32.00 - 29+12.30	RT	395
ITEM TOTAL		5035

TURF ESTABLISHMENT			
STATION	LOCATION	TOPSOIL SY	LAWN SOD SY
12TH STREET			
43+99.78 - 47+38.00	LT	249	249
43+99.78 - 47+38.00	RT	254	254
47+38.00 - 51+08.17	LT	277	277
47+38.00 - 51+08.17	RT	249	249
51+08.12 - 53+60.00	LT	280	280
51+08.12 - 53+60.00	RT	253	253
CUMMING AVE			
10+88.11 - 14+68.02	LT	359	359
10+88.11 - 14+68.02	RT	373	373
15+32.00 - 19+12.31	LT	373	373
15+32.00 - 19+12.31	RT	349	349
BAXTER AVE			
20+88.40 - 24+67.98	LT	357	357
20+88.40 - 24+67.98	RT	353	353
25+31.98 - 29+12.30	LT	368	368
25+31.98 - 29+12.30	RT	363	363
ITEM TOTALS		4457	4457

MOVING SIGNS, TYPE II		
STATION	LOCATION	EACH
12TH STREET		
46+57.4	LT	1
48+42.7	LT	1
50+20.4	LT	1
51+59.8	RT	1
52+00.6	LT	1
53+88.3	LT	1
53+99.0	LT	1
54+30.1	RT	1
CUMMING AVENUE		
14+65.5	RT	1
14+67.9	LT	1
15+37.5	LT	1
18+88.4	LT	1
BAXTER AVENUE		
24+63.1	RT	1
24+68.9	LT	1
25+36.1	LT	1
28+96.2	LT	1
ITEM TOTAL		16

GEOTEXTILE FABRIC, TYPE SAS		
STATION TO STATION	LOCATION	SY
12TH STREET		
43+99.78 - 47+00.00	LT & RT	1030
47+00.00 - 48+00.00	LT & RT	477
48+00.00 - 50+50.00	LT & RT	861
50+50.00 - 51+50.00	LT & RT	477
51+50.00 - 53+60.00	LT & RT	723
CUMMING AVE		
10+88.11 - 14+72.02	LT & RT	1255
15+27.97 - 19+12.31	LT & RT	1253
BAXTER AVE		
20+88.40 - 24+72.01	LT & RT	1254
25+28.00 - 29+12.30	LT & RT	1253
ITEM TOTAL		8583

GEOTEXTILE FABRIC, TYPE DF		
STATION TO STATION	LOCATION	SY
12TH STREET		
43+99.78 - 47+37.98	LT	530
43+99.78 - 47+37.98	RT	535
47+37.98 - 51+08.17	LT	572
47+37.98 - 51+08.17	RT	572
51+08.17 - 53+60.00	LT	393
51+08.17 - 53+60.00	RT	393
CUMMING AVE		
10+88.11 - 14+68.03	LT	643
10+88.11 - 14+68.03	RT	643
15+31.96 - 19+12.31	LT	636
15+31.96 - 19+12.31	RT	636
BAXTER AVE		
20+88.40 - 24+68.00	LT	643
20+88.40 - 24+68.00	RT	643
25+32.00 - 29+12.30	LT	636
25+32.00 - 29+12.30	RT	636
ITEM TOTAL		8112

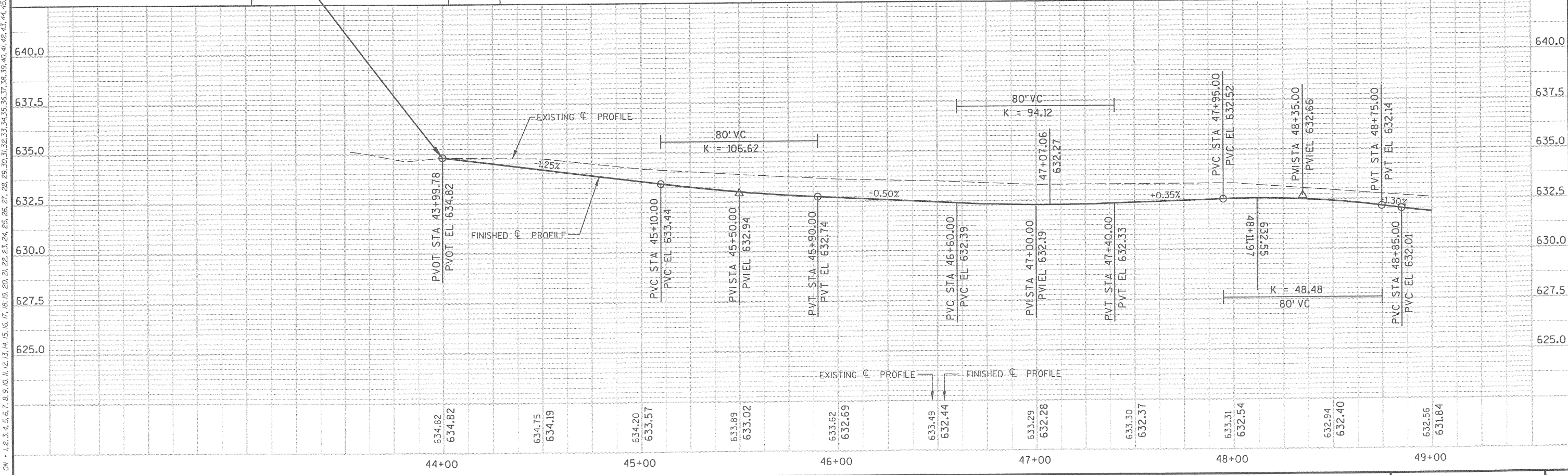
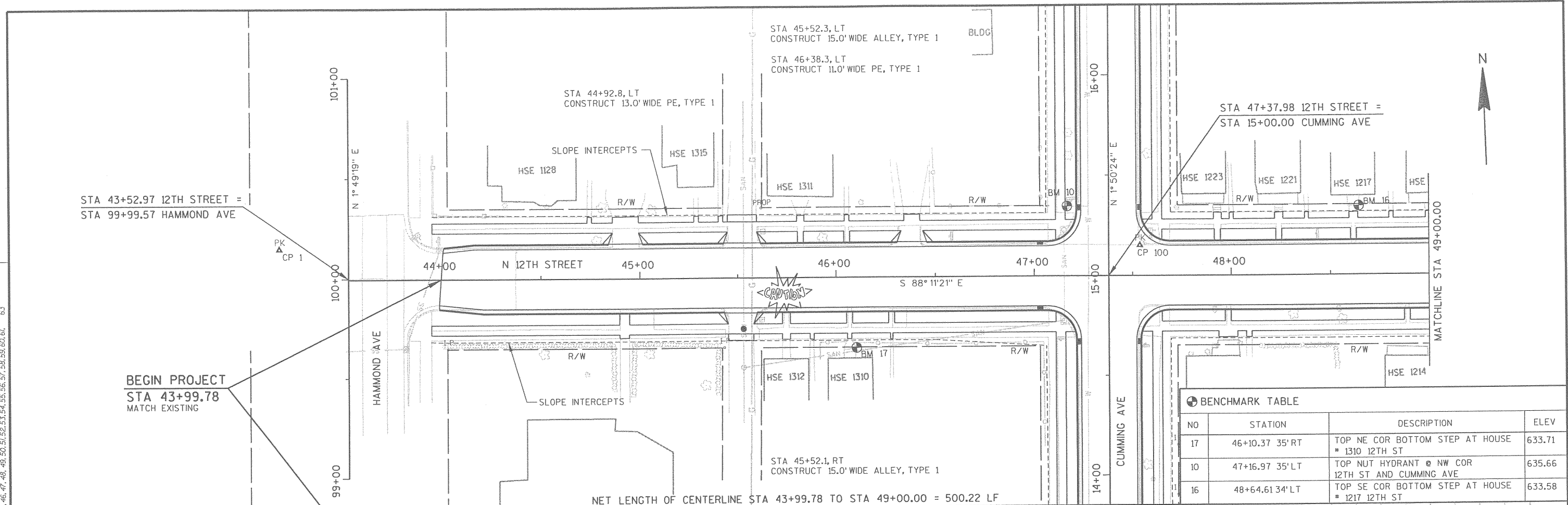
SAWING EXISTING PAVEMENT			
STATION	LOCATION	LF	
12TH STREET			
43+99.78	LT & RT	31	
44+92.8	LT	13	
45+51.7	RT	13	
46+38.3	LT	8	
49+22.4	LT	13	
49+23.8	RT	13	
50+00.3	RT	8	
52+81.4	LT	12	
53+60.00	LT & RT	35	
CUMMING AVENUE			
10+88.11	LT & RT	101	
12+59.6	LT	9	
19+12.31	LT & RT	91	
BAXTER AVENUE			
20+88.40	LT & RT	101	
21+70.6	LT	8	
29+12.30	LT & RT	91	
ITEM TOTALS		547	

REMOVING STORM SEWER AND COMBINED SEWER		
STATION	LOCATION	LF
47+15.31	LT & RT	68
47+50 - 47+15.31	RT	66
ITEM TOTALS		134

SEALING PIPES		
STATION	LOCATION	EACH
47+50.00	RT	1
ITEM TOTALS		1

POLYSTYRENE INSULATION BOARD		
STATION	LOCATION	2-INCH SY
CUMMING AVE		
11+15	10' LT	81
14+67	10' LT	81
15+34	10' LT	81
18+28	10' LT	81
BAXTER AVE		
21+15	10' LT	81
24+67	10' LT	81
UNDISTRIBUTED		162
ITEM TOTAL		648

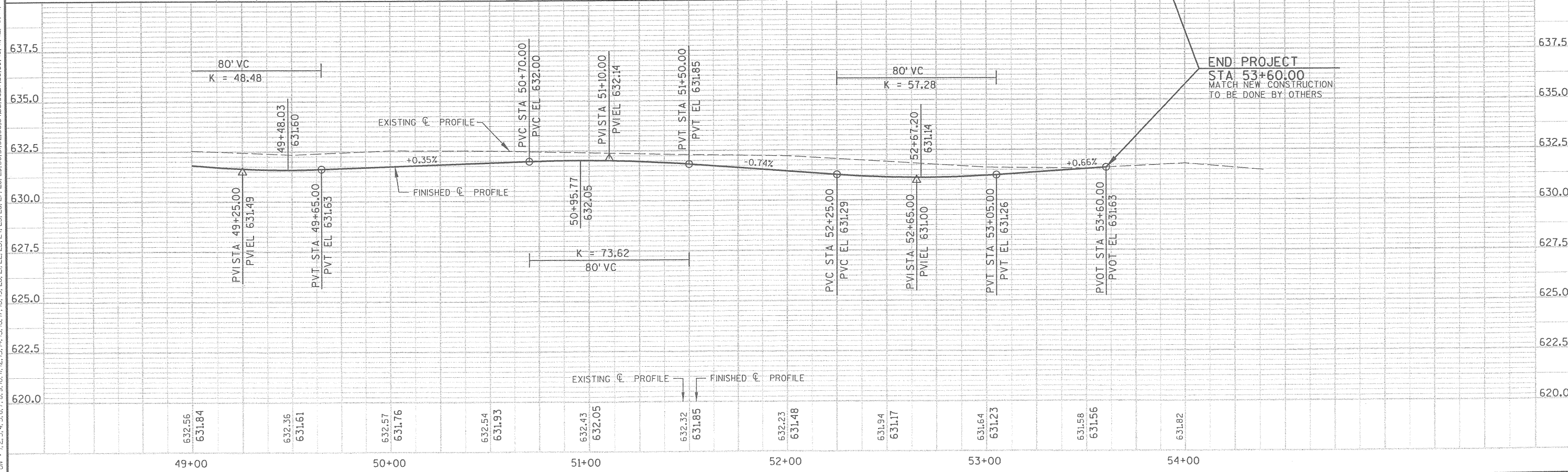
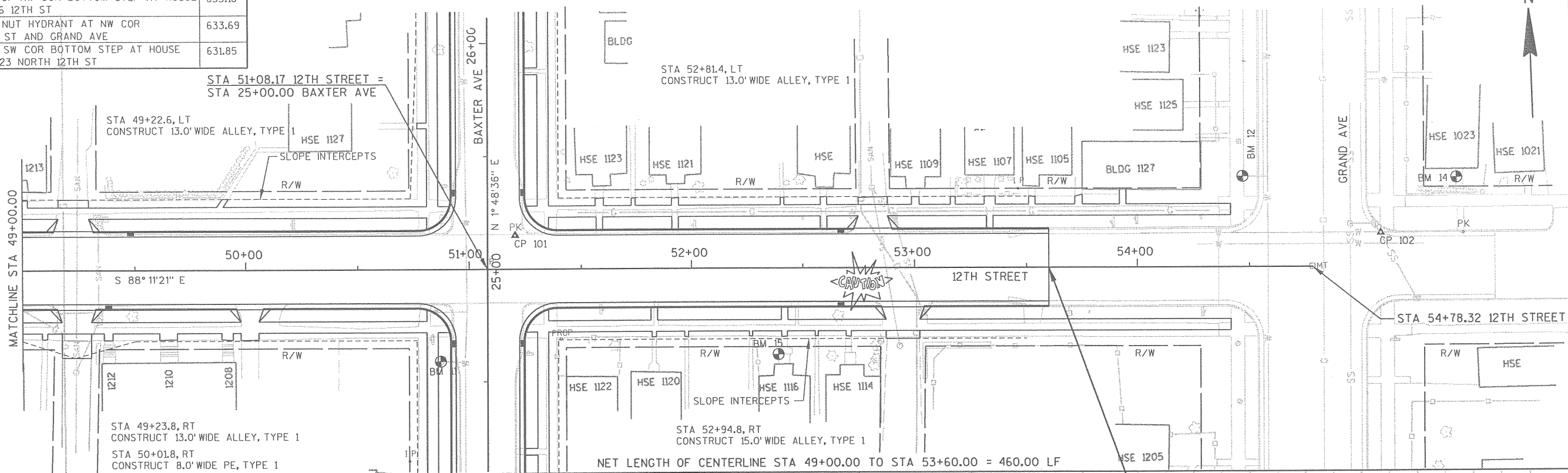
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PROJECT NUMBER: SUPER0004.00	HWY: 12TH STREET	COUNTY: DOUGLAS	PLAN & PROFILE	SCALE, FEET	SHEET NO: E
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BENCHMARK TABLE

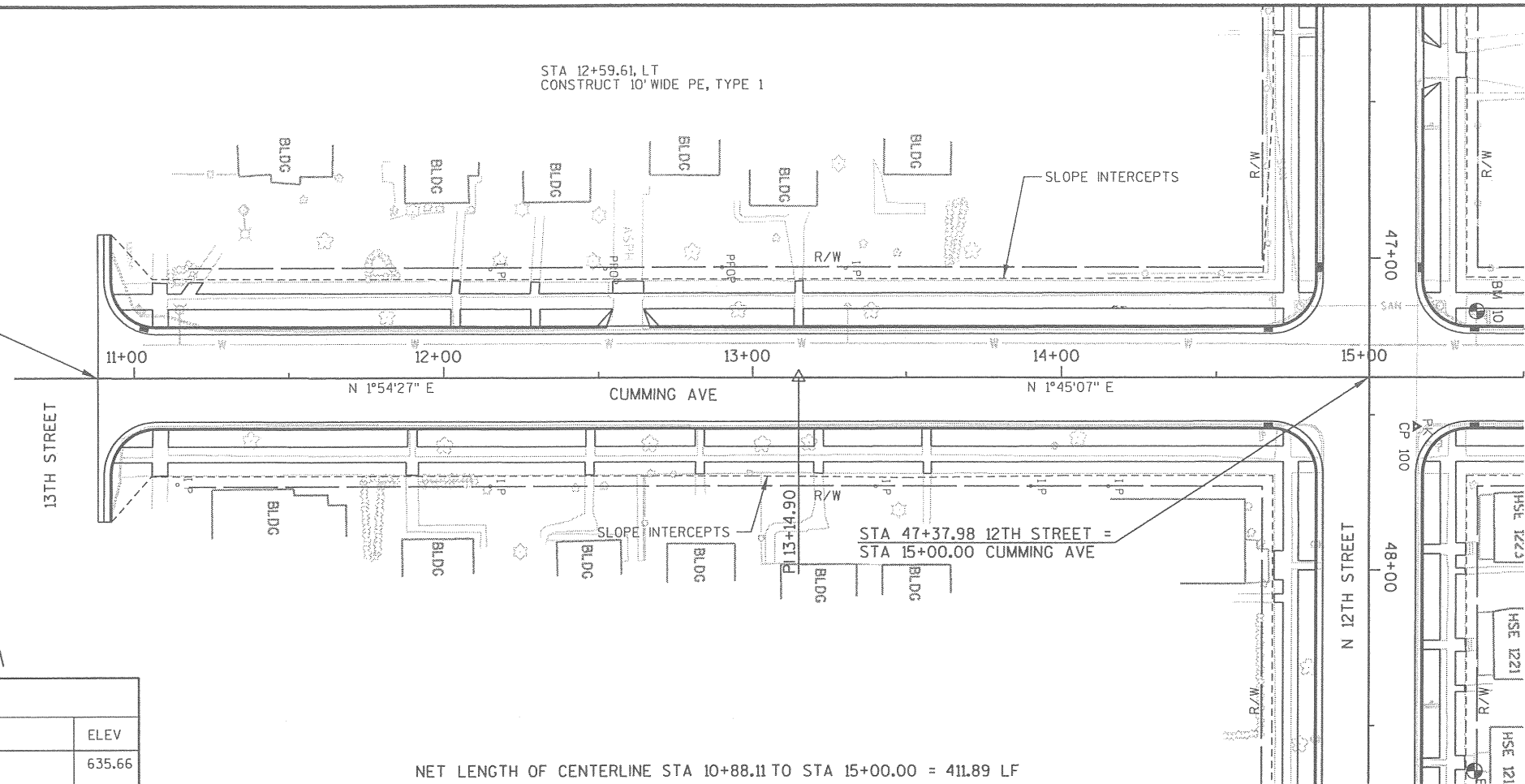
NO	STATION	DESCRIPTION	ELEV
11	50+87.32 41'RT	TOP NUT HYDRANT AT SW COR 12TH ST AND BAXTER AVE	634.80
15	52+39.03 38'RT	TOP OF NW COR BOTTOM STEP AT HOUSE # 1116 12TH ST	633.18
12	54+47.10 40'LT	TOP NUT HYDRANT AT NW COR 12TH ST AND GRAND AVE	633.69
14	55+43.04 39'LT	TOP SW COR BOTTOM STEP AT HOUSE # 1023 NORTH 12TH ST	631.85



LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 63

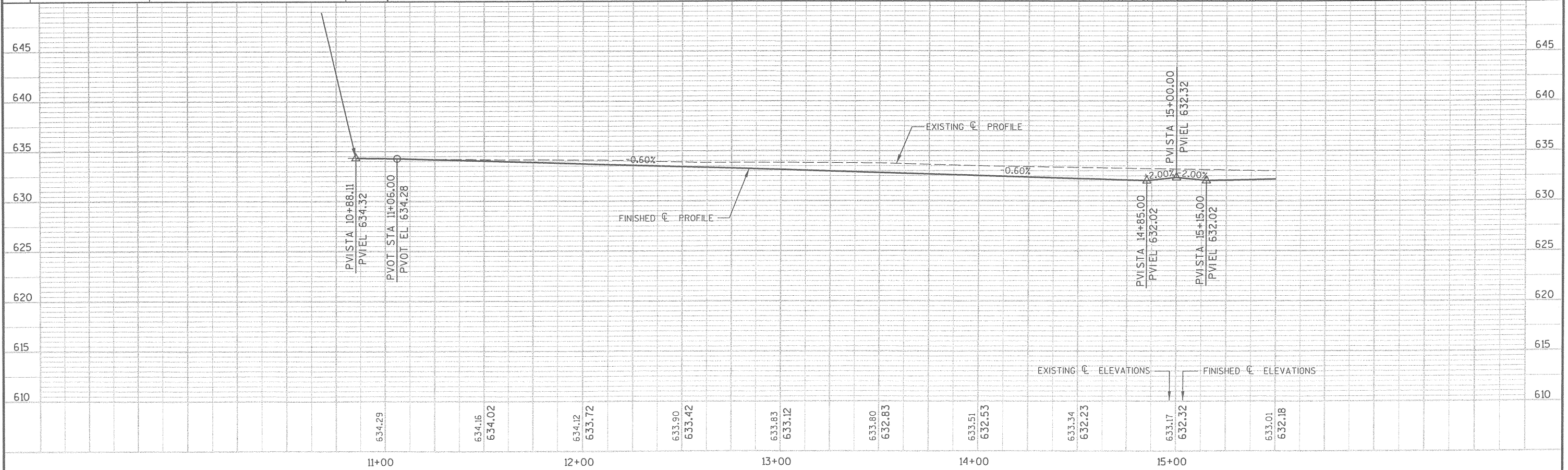
BEGIN CONSTRUCTION
STA 10+88.11
MATCH EXISTING
SAWCUT REQ'D



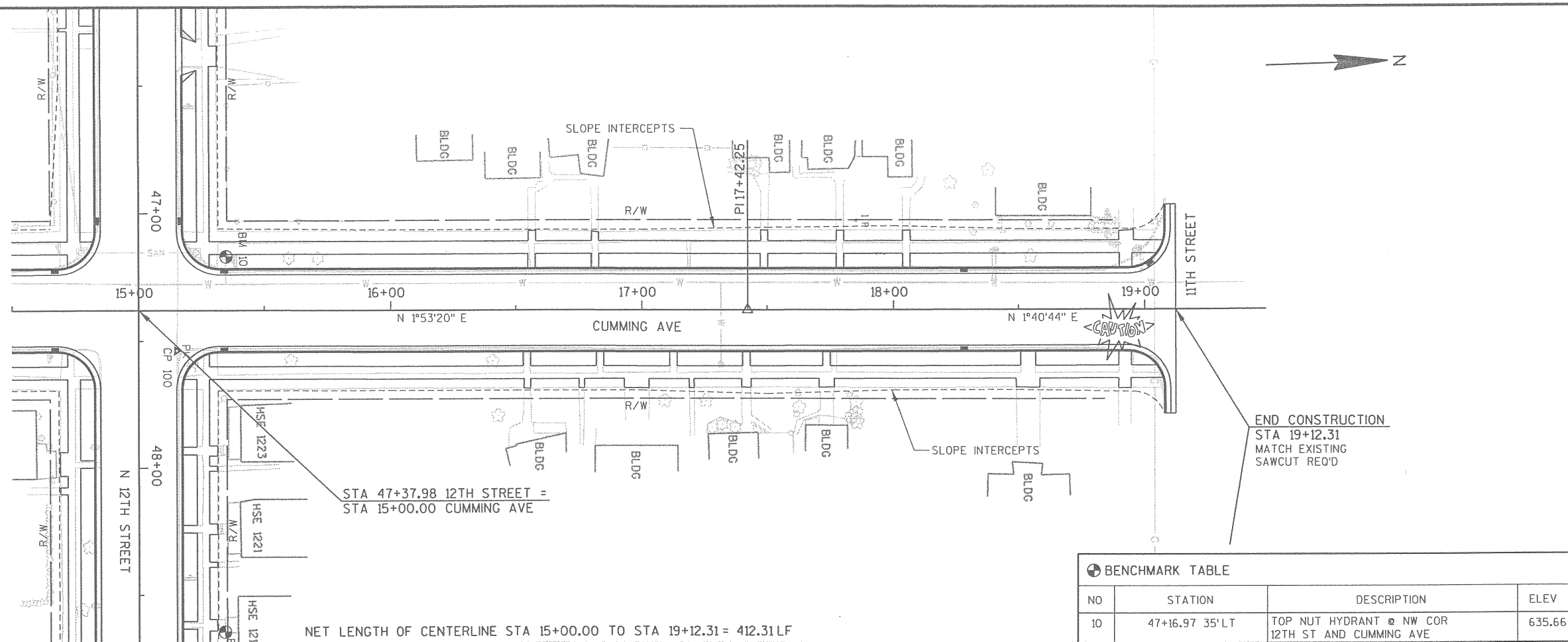
BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
10	47+16.97 35' LT	TOP NUT HYDRANT @ NW COR 12TH ST AND CUMMING AVE	635.66

NET LENGTH OF CENTERLINE STA 10+88.11 TO STA 15+00.00 = 411.89 LF



LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 63



STA 47+37.98 12TH STREET =
 STA 15+00.00 CUMMING AVE

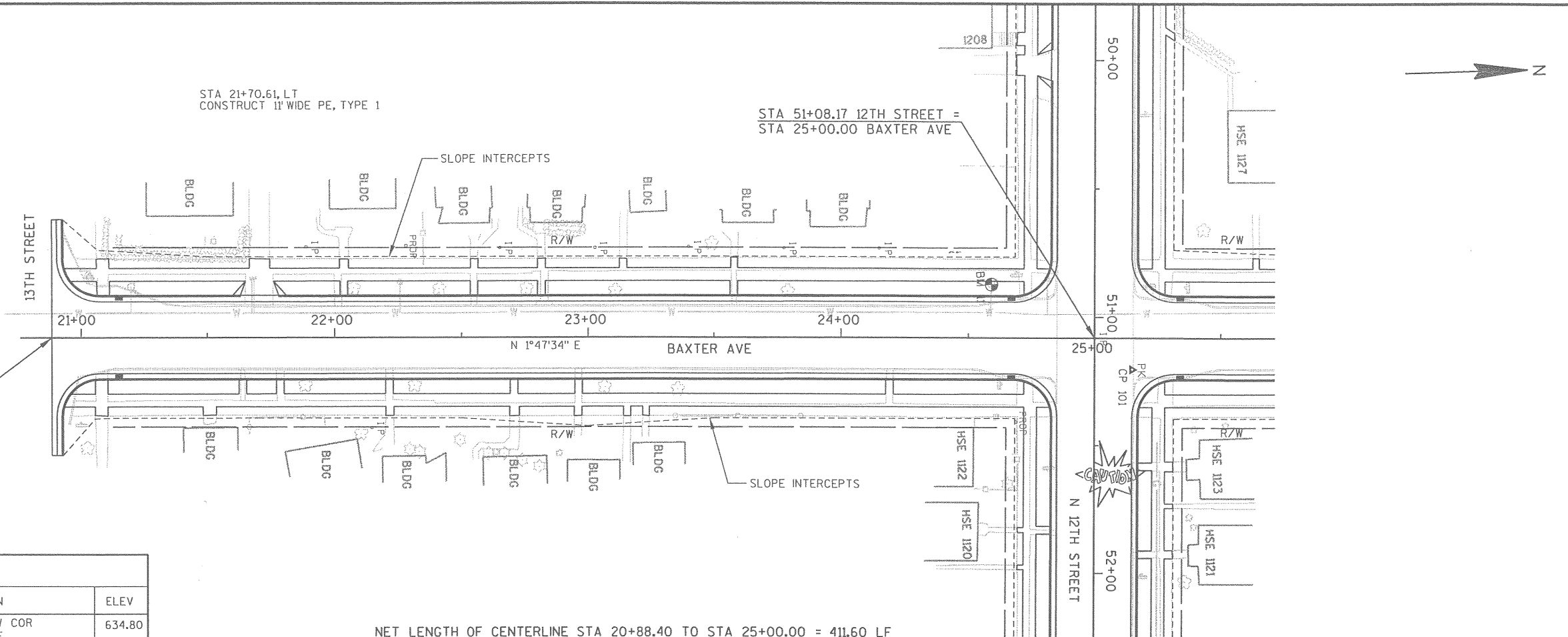
NET LENGTH OF CENTERLINE STA 15+00.00 TO STA 19+12.31 = 412.31 LF

BENCHMARK TABLE			
NO	STATION	DESCRIPTION	ELEV
10	47+16.97 35' LT	TOP NUT HYDRANT @ NW COR 12TH ST AND CUMMING AVE	635.66



PROJECT NUMBER: SUPER0004.00	HWY: 12TH STREET	COUNTY: DOUGLAS	PLAN & PROFILE	SCALE, FEET	SHEET NO: E
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LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 63

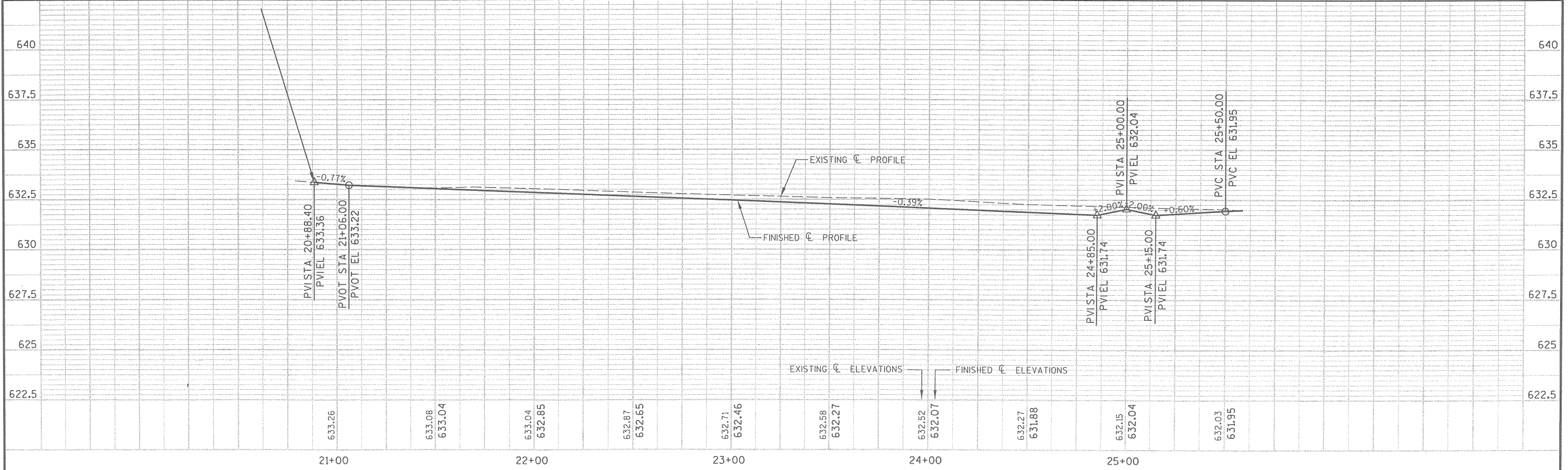


BEGIN CONSTRUCTION
STA 20+88.40
MATCH EXISTING
SAWCUT REQ'D

BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
11	50+87.32 41' RT	TOP NUT HYDRANT AT SW COR 12TH ST AND BAXTER AVE	634.80

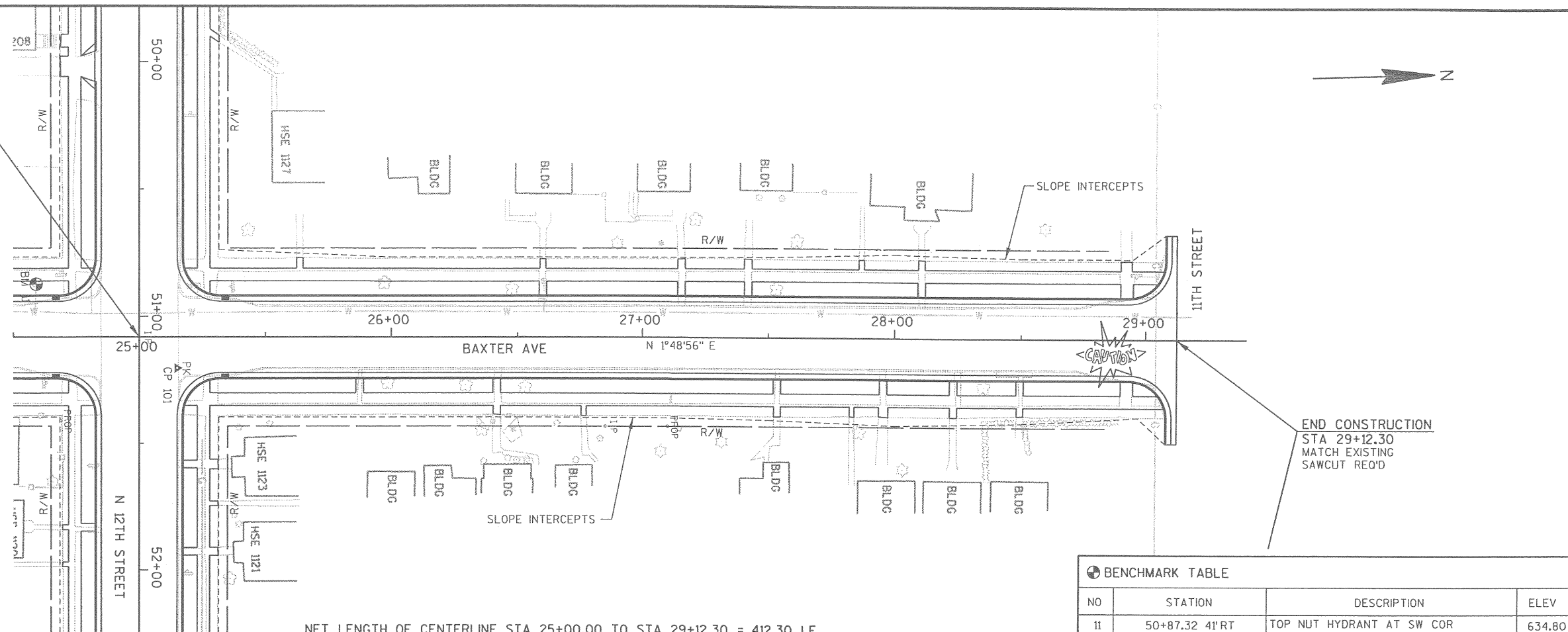
NET LENGTH OF CENTERLINE STA 20+88.40 TO STA 25+00.00 = 411.60 LF



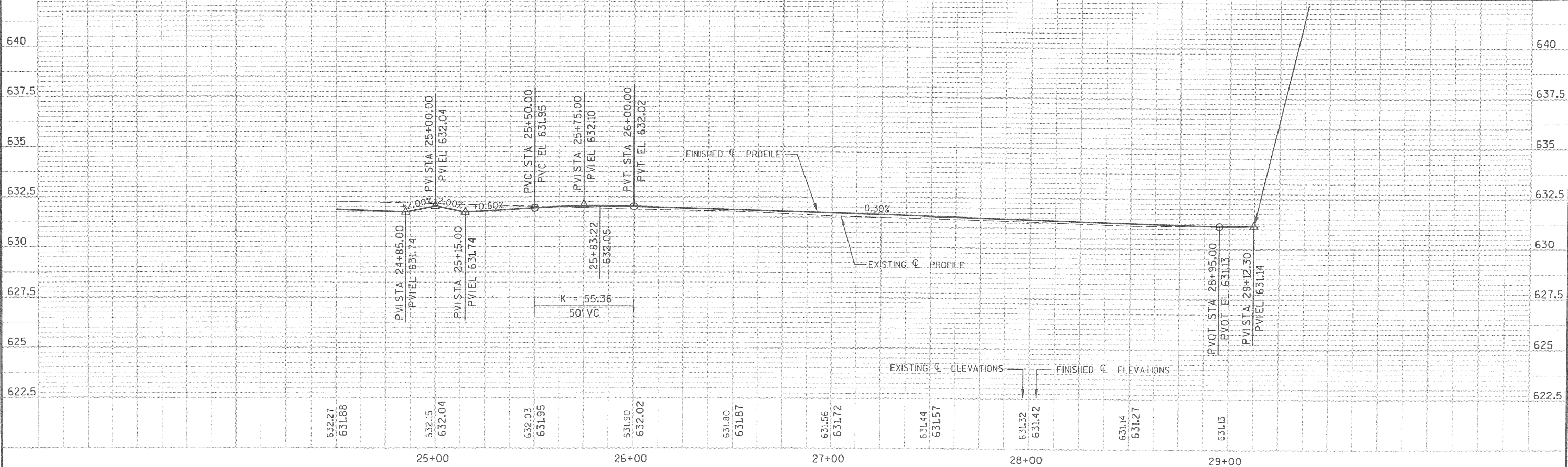
PROJECT NUMBER: SUPER0004.00	HWY: 12TH STREET	COUNTY: DOUGLAS	PLAN & PROFILE	SCALE, FEET	SHEET NO: E
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LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 63

STA 51+08.17 12TH STREET =
STA 25+00.00 BAXTER AVE



BENCHMARK TABLE			
NO	STATION	DESCRIPTION	ELEV
11	50+87.32 41' RT	TOP NUT HYDRANT AT SW COR 12TH ST AND BASTER AVE	634.80

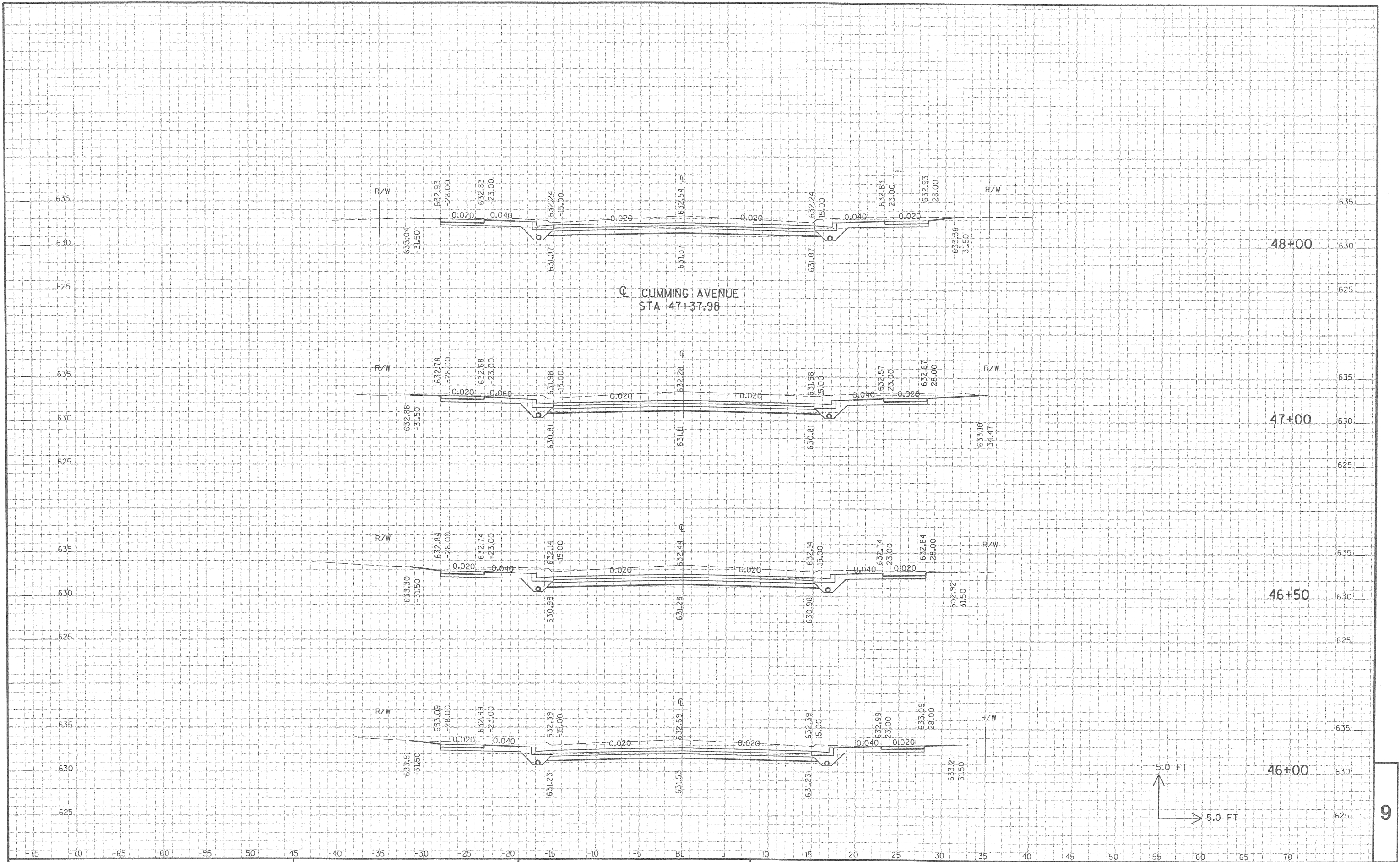


12TH STREET								*EXPANDED 30 %
STATION	END AREA (SF)		VOLUME (CY)		CUM VOLUME (CY)		MASS HAUL (CY)	
	CUT	FILL	CUT	*FILL	CUT	*FILL		
44+00	57	1	0	0	0	0	0	
44+50	68	1	116	2	116	2	114	
45+00	76	0	133	1	249	2	247	
45+50	82	0	146	0	395	2	393	
46+00	51	0	123	0	519	2	516	
46+50	51	0	94	0	613	2	611	
47+00	51	0	94	0	707	2	705	
48+00	51	0	189	0	896	2	894	
48+50	63	0	106	0	1002	2	999	
49+00	51	0	106	0	1107	2	1105	
49+23	79	0	55	0	1163	2	1160	
49+50	51	0	65	0	1228	2	1225	
50+00	82	0	123	0	1351	3	1348	
50+50	50	0	122	0	1473	3	1470	
51+50	51	0	187	0	1660	3	1657	
52+00	51	0	94	0	1755	3	1752	
52+50	51	0	94	0	1849	3	1846	
53+00	60	1	103	1	1952	4	1948	
53+50	52	2	104	3	2056	6	2049	
53+60	3	0	10	0	2066	6	2059	

CUMMING AVENUE								*EXPANDED 30 %
STATION	END AREA (SF)		VOLUME (CY)		CUM VOLUME (CY)		MASS HAUL (CY)	
	CUT	FILL	CUT	*FILL	CUT	*FILL		
10+88	0	0	0	0	0	0	0	
11+05	50	0.5	16	0	16	0	15	
11+60	55	1.1	107	2	123	2	120	
12+10	49	0	96	1	219	4	215	
12+60	49	0	91	0	310	4	306	
13+00	49	0	73	0	382	4	379	
13+50	49	0	91	0	473	4	469	
14+00	49	0	91	0	564	4	560	
14+50	49	0	91	0	654	4	651	
15+50	49	0	181	0	836	4	832	
16+00	49	0.1	91	0	927	4	923	
16+50	55	0.6	96	1	1023	5	1018	
17+00	60	0	106	1	1129	5	1124	
17+50	73	0.1	123	0	1253	5	1247	
18+00	48	0	112	0	1365	6	1359	
18+50	62	0	102	0	1466	6	1461	
18+85	49	1.4	72	1	1538	7	1532	
18+98	3	0	13	0	1551	7	1544	
19+12	0	0	1	0	1552	7	1545	

BAXTER AVENUE								*EXPANDED 30 %
STATION	END AREA (SF)		VOLUME (CY)		CUM VOLUME (CY)		MASS HAUL (CY)	
	CUT	FILL	CUT	*FILL	CUT	*FILL		
20+88	0	0	0	0	0	0	0	
21+13	43	6.6	20	4	20	4	16	
21+50	58	0.1	69	6	89	10	79	
21+70	48	0	39	0	128	10	118	
22+00	48	0	53	0	181	10	171	
22+50	48	0	89	0	270	10	260	
23+00	48	0	89	0	359	10	349	
23+50	48	0	89	0	448	10	438	
24+00	48	0	89	0	537	10	527	
24+50	48	0	89	0	626	10	616	
25+50	50	0.3	181	1	807	11	797	
26+00	54	0.3	96	1	904	11	892	
26+50	51	0.2	97	1	1001	12	989	
27+00	49	0.6	93	1	1093	13	1080	
27+50	50	0.6	92	1	1185	14	1171	
28+00	52	0.3	94	1	1280	15	1264	
28+50	51	0.8	95	1	1375	17	1358	
28+86	54	0.8	70	1	1445	18	1427	
28+95	3	0	10	0	1454	18	1436	
29+12	0	0	1	0	1455	18	1437	

LEVELS ON 1.2.3.4.



SEH PROJECT NO : SUPER0004.00

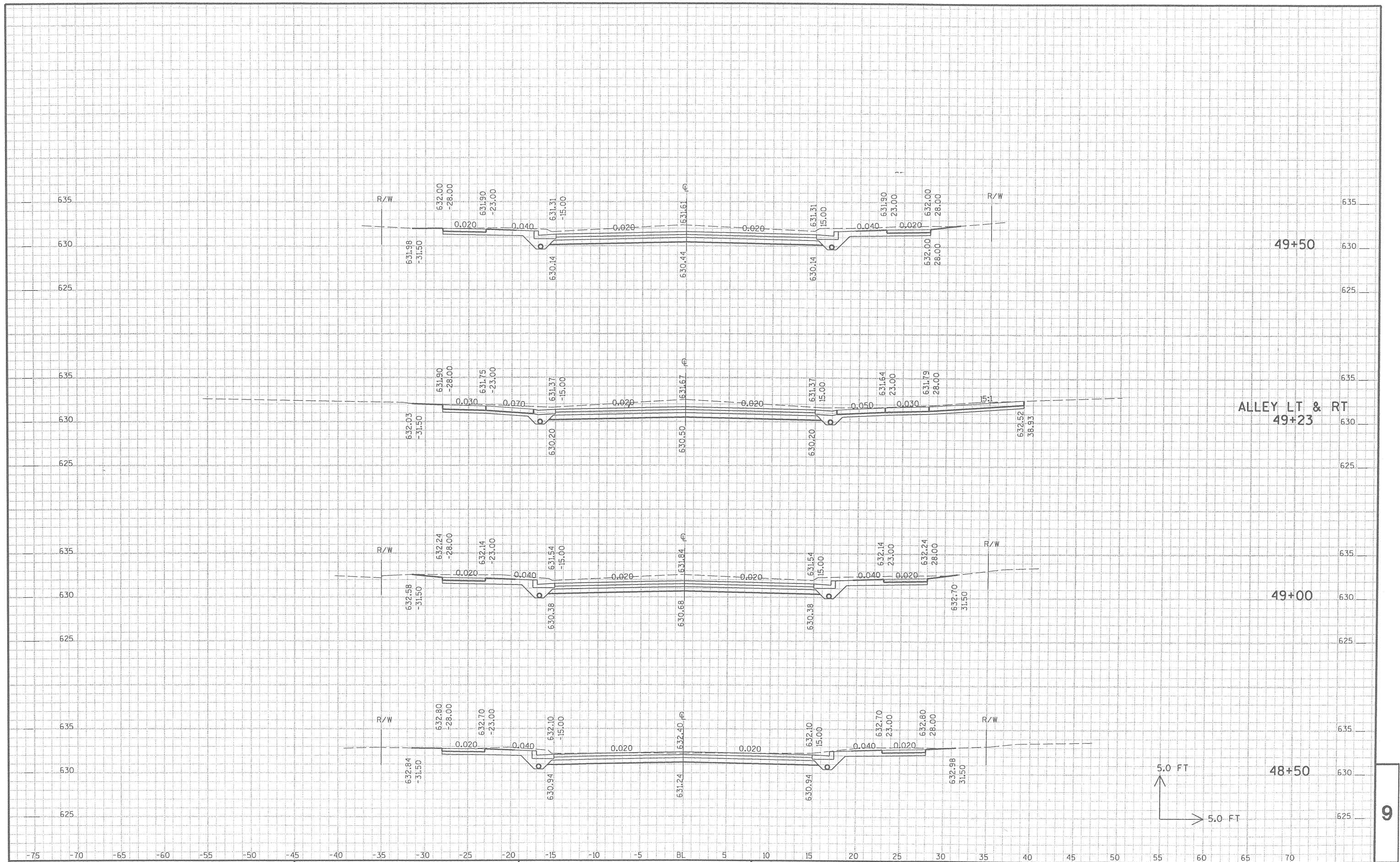
HWY : 12TH STREET

COUNTY : DOUGLAS

CROSS SECTIONS - 12TH STREET

SHEET NO:

9



SEH PROJECT NO : SUPER0004.00

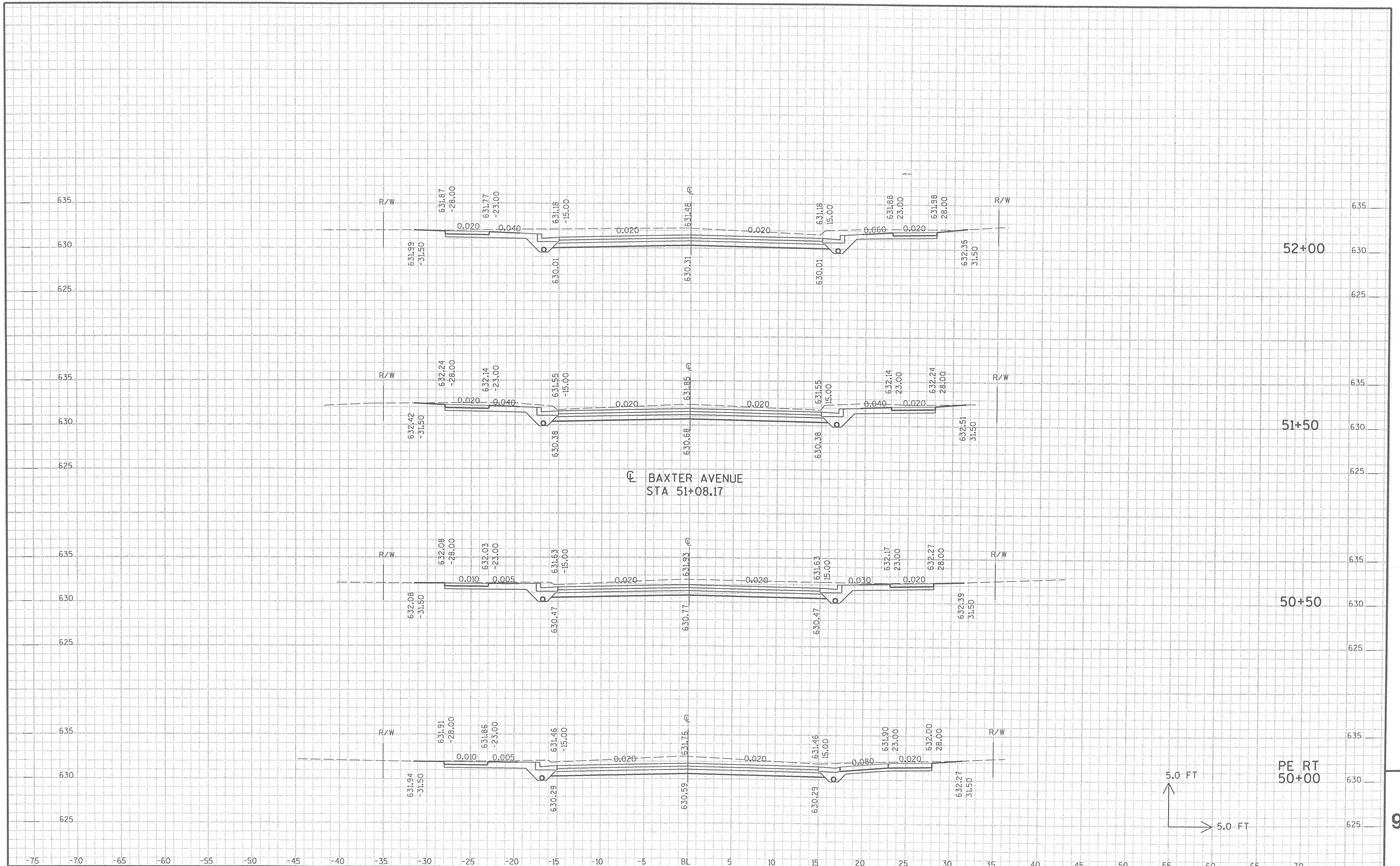
HWY : 12TH STREET

COUNTY : DOUGLAS

CROSS SECTIONS - 12TH STREET

SHEET NO:

E



SEH PROJECT NO : SUPER0004.00

HWY : 12TH STREET

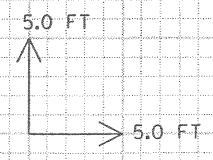
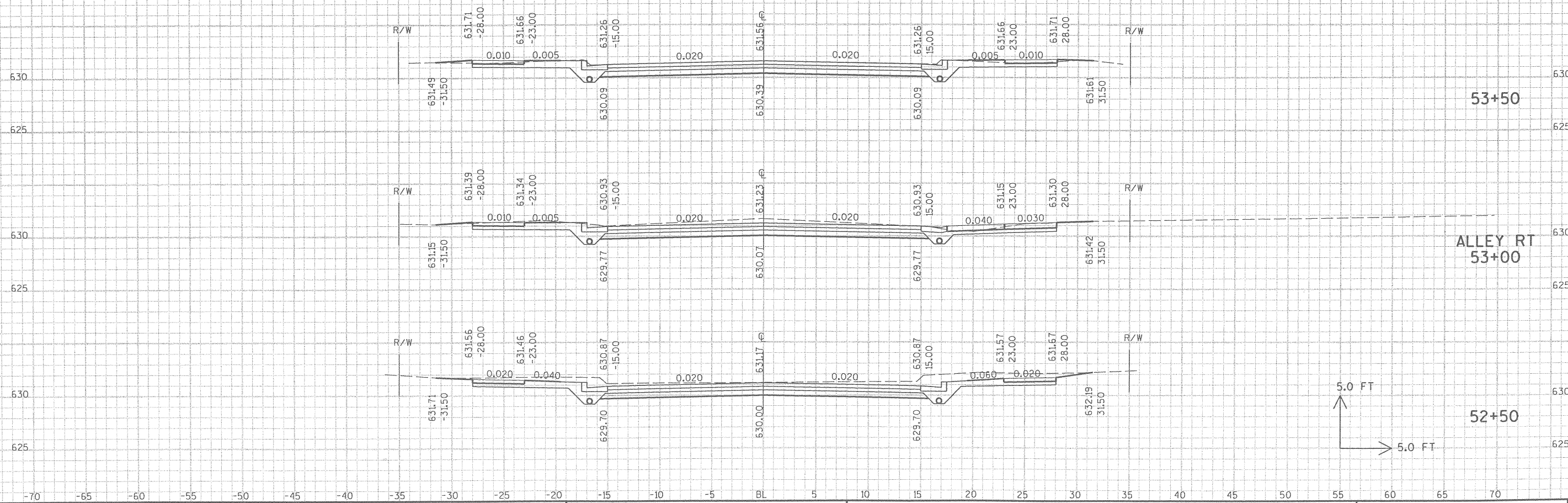
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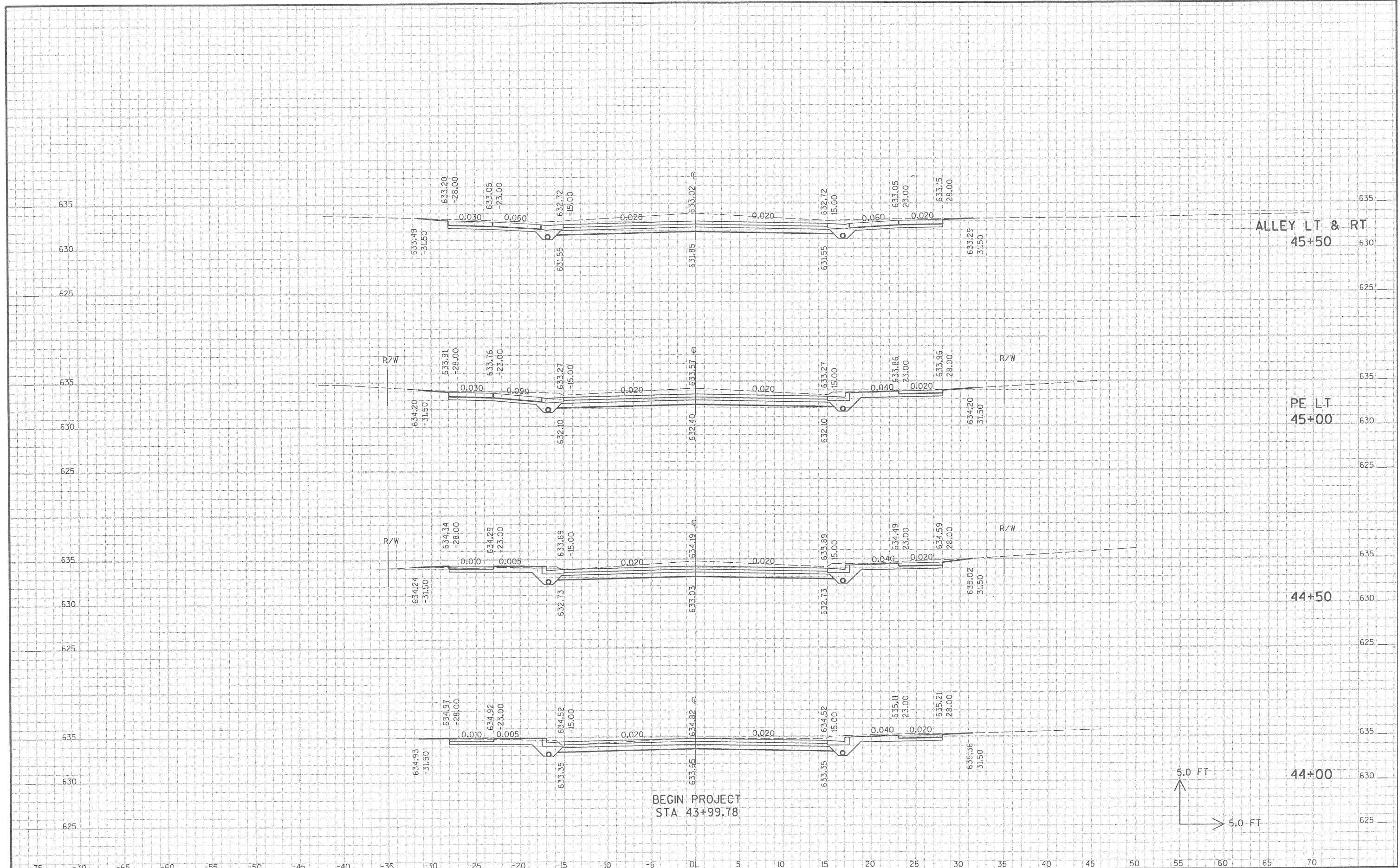
CROSS SECTIONS - 12TH STREET

SHEET NO:

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END PROJECT
STA 53+60.00





SEH PROJECT NO : SUPER0004.00

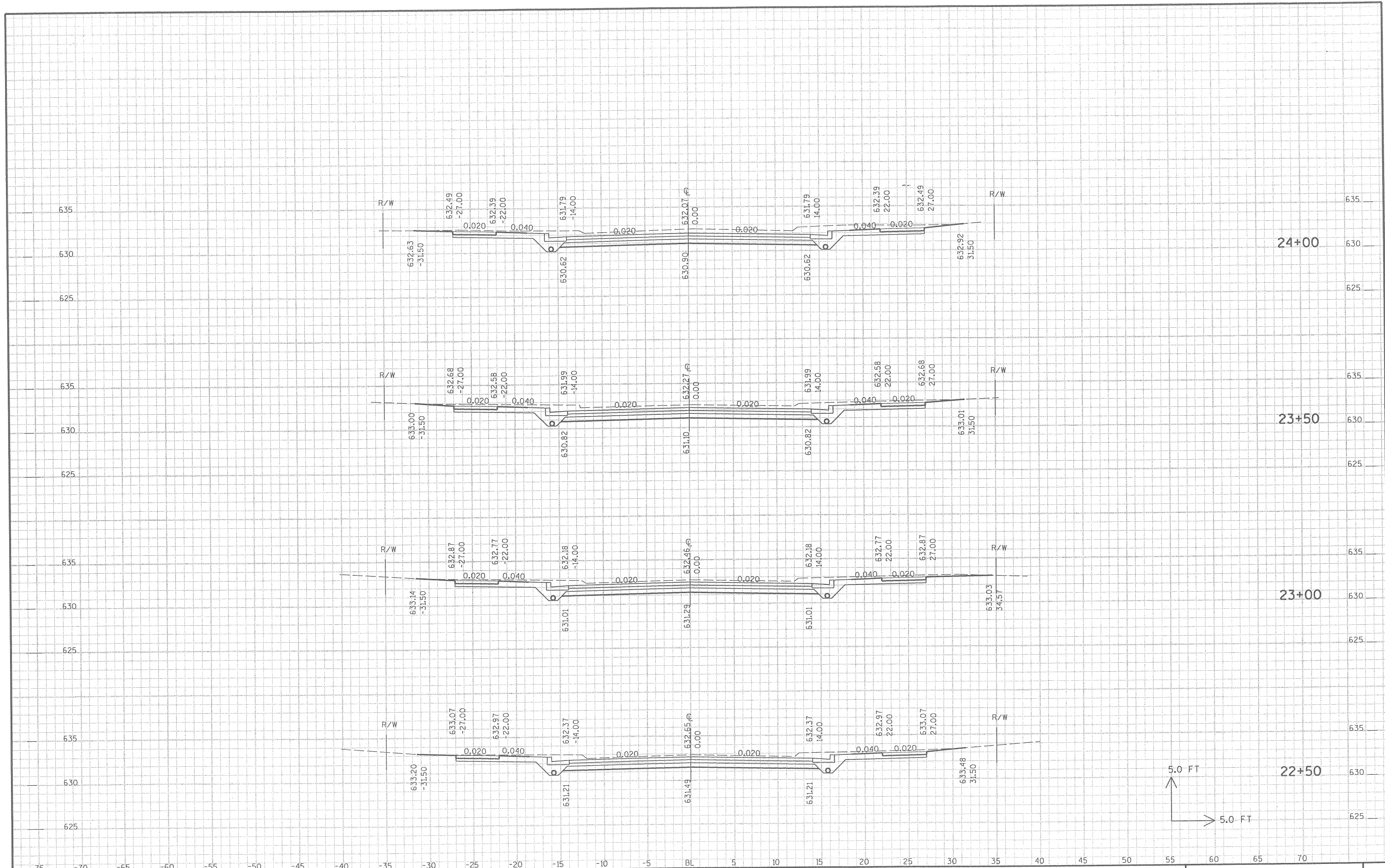
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COUNTY : DOUGLAS

CROSS SECTIONS - 12TH STREET

SHEET NO:

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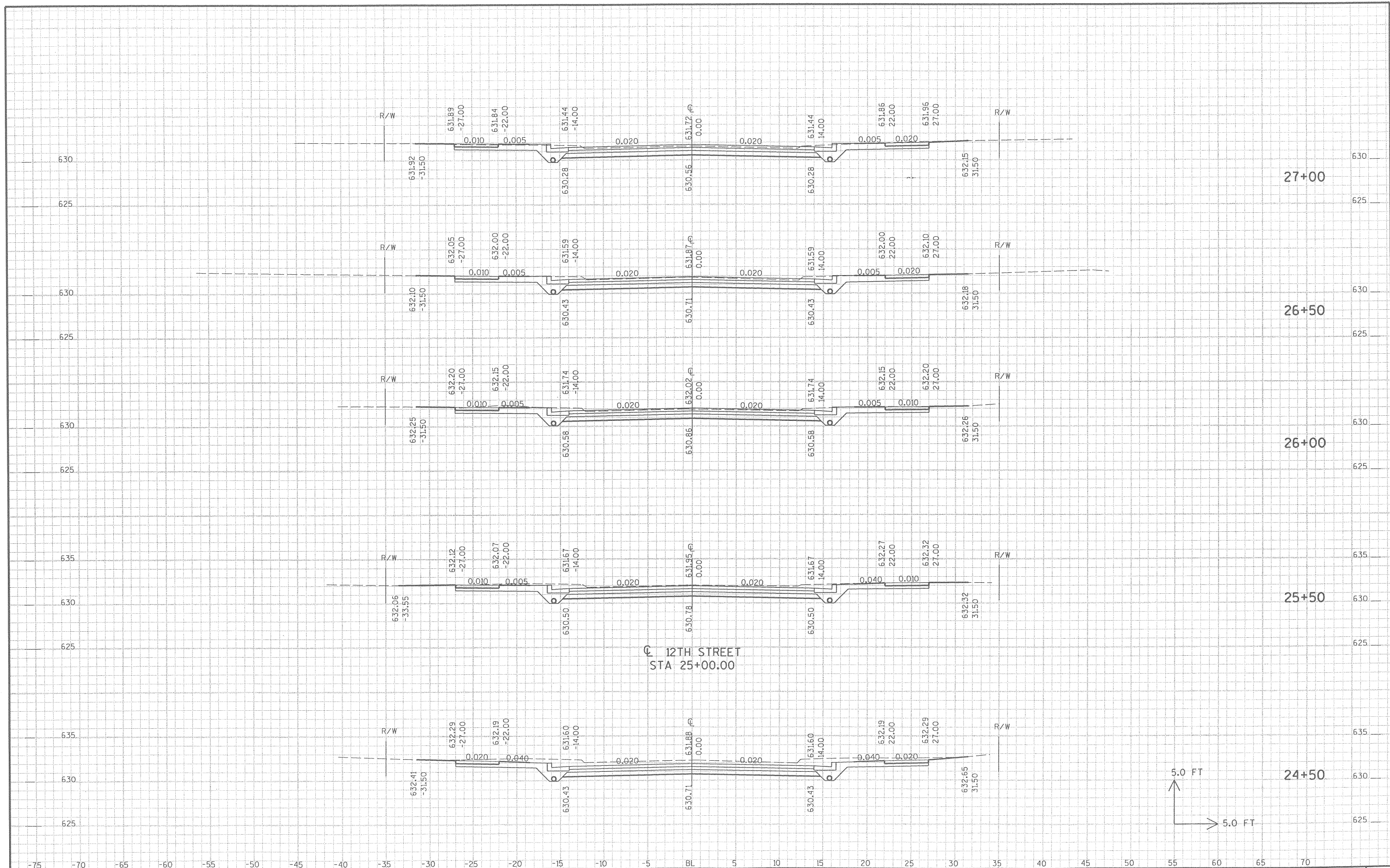
HWY : 12TH STREET

COUNTY : DOUGLAS

CROSS SECTIONS - BAXTER AVENUE

SHEET NO:

E



SEH PROJECT NO : SUPER0004.00

HWY : 12TH STREET

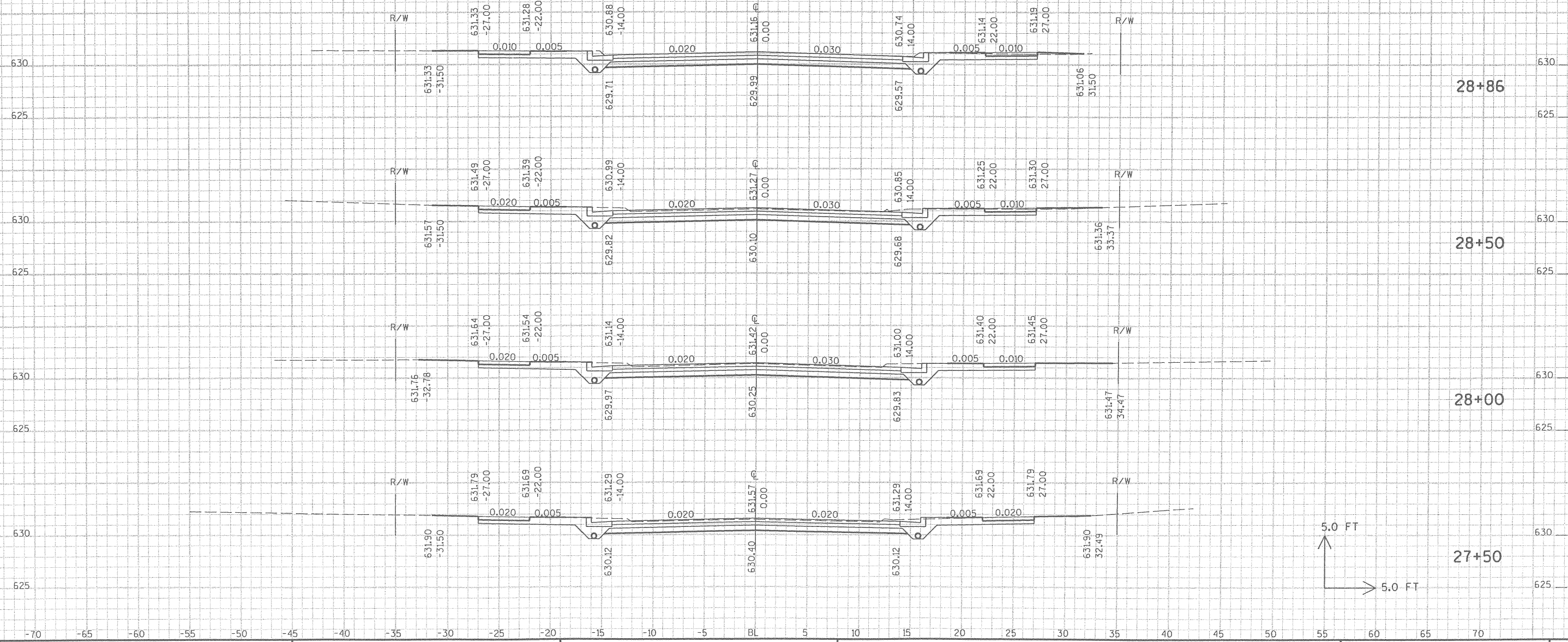
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CROSS SECTIONS - BAXTER AVENUE

SHEET NO:

E

END CONSTRUCTION
STA 29+12.30



SEH PROJECT NO : SUPER0004.00

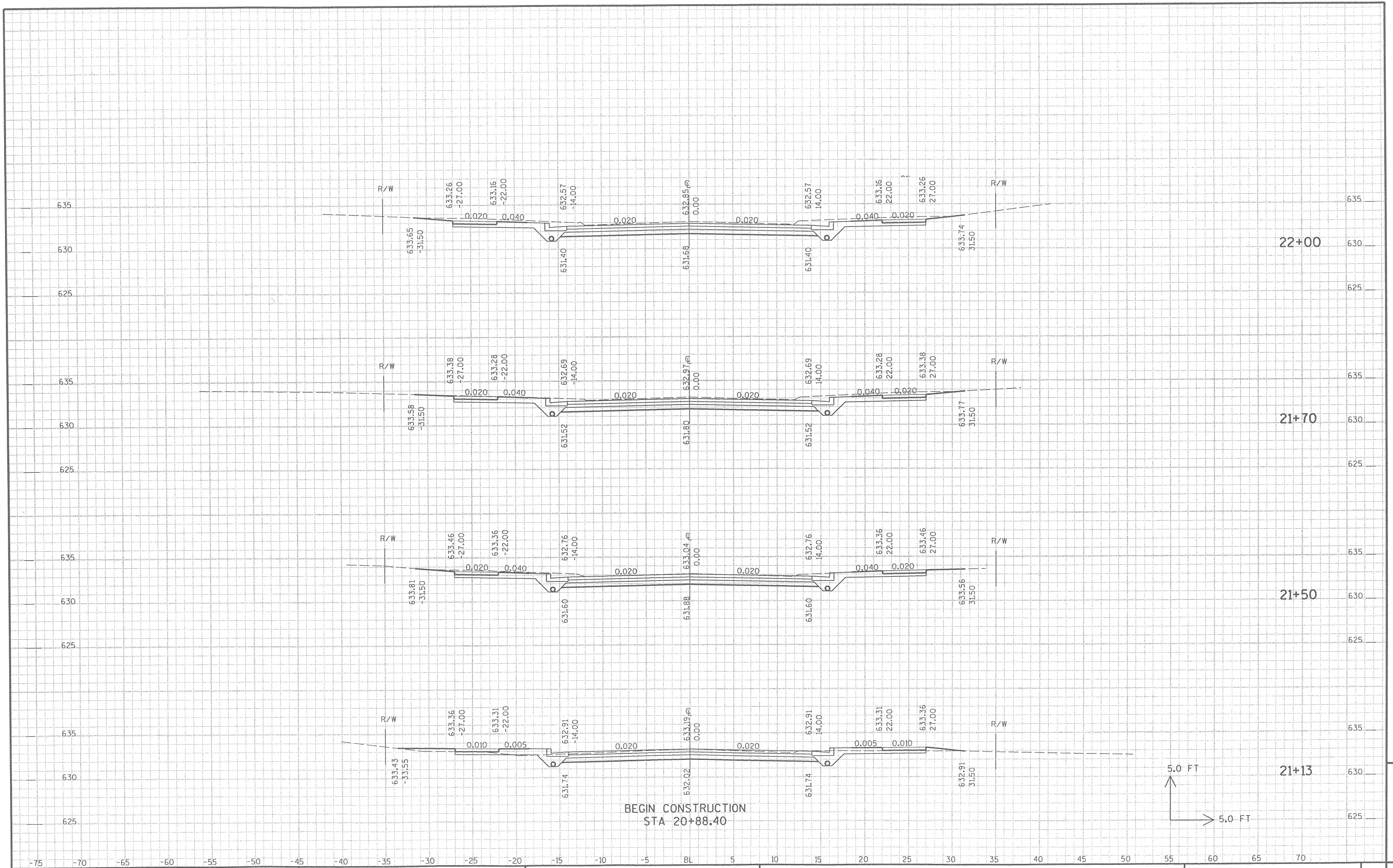
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COUNTY : DOUGLAS

CROSS SECTIONS - BAXTER AVENUE

SHEET NO:

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SEH PROJECT NO : SUPER0004.00

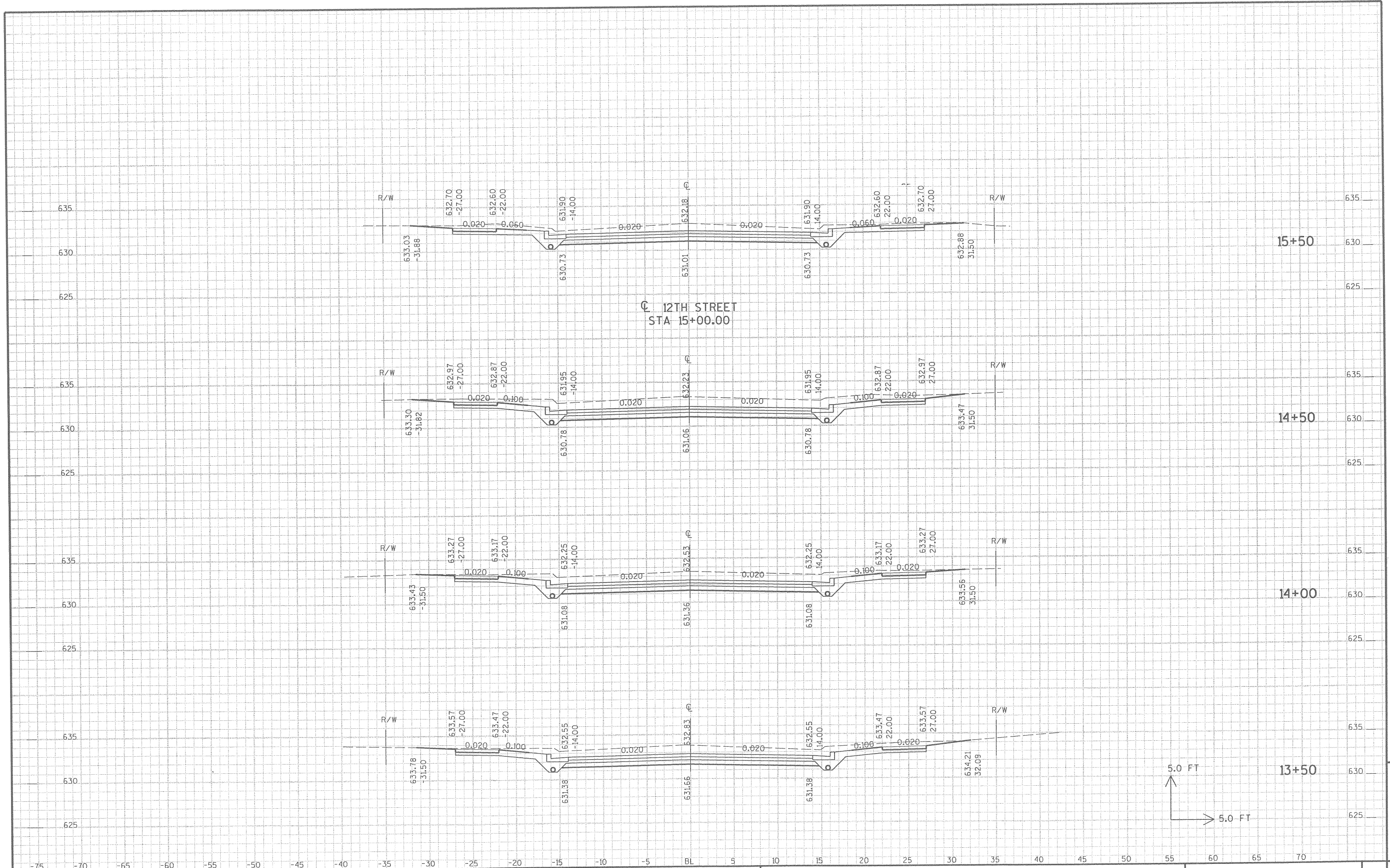
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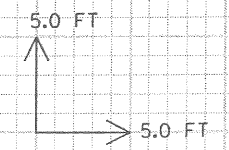
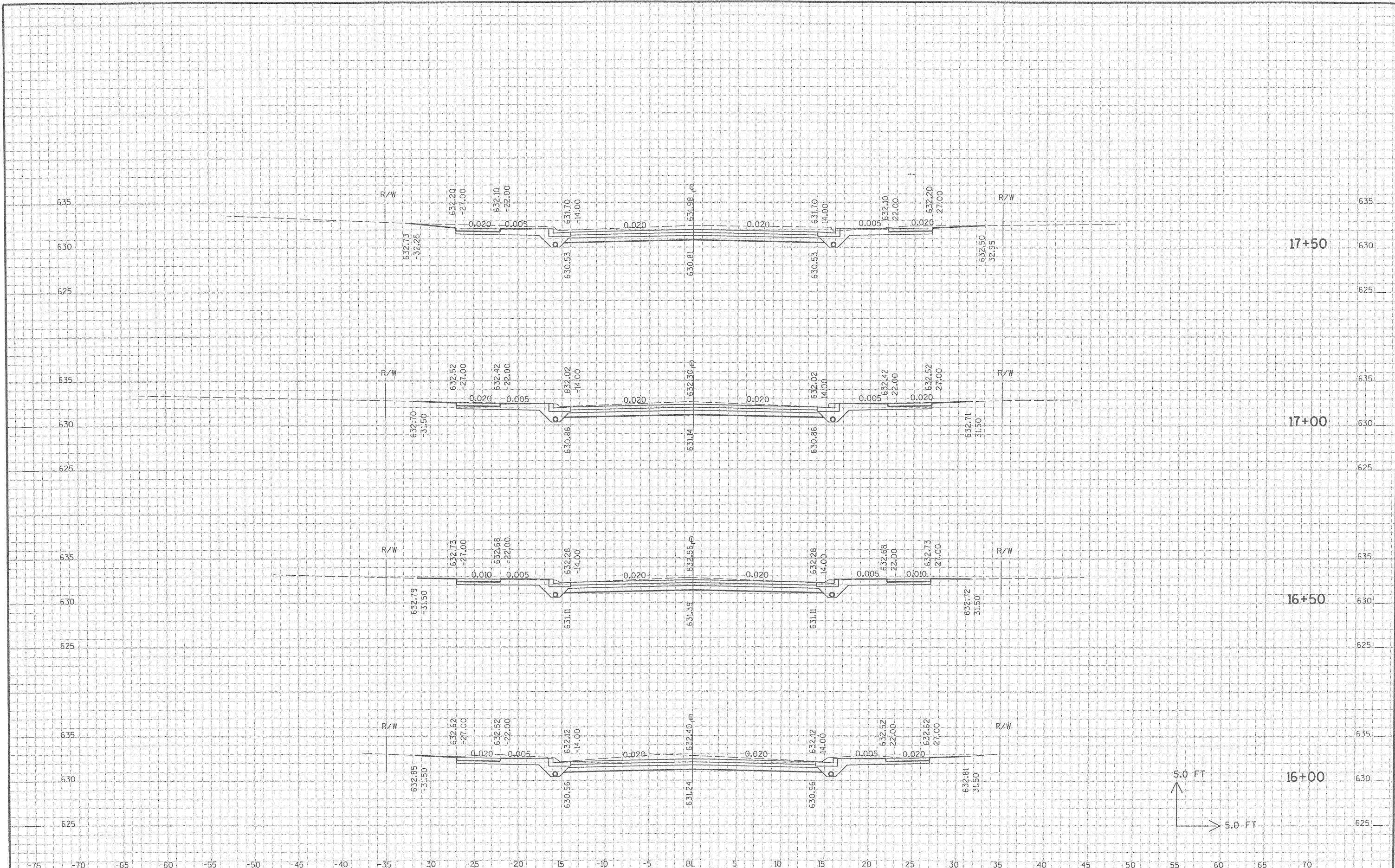
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CROSS SECTIONS - BAXTER AVENUE

SHEET NO:

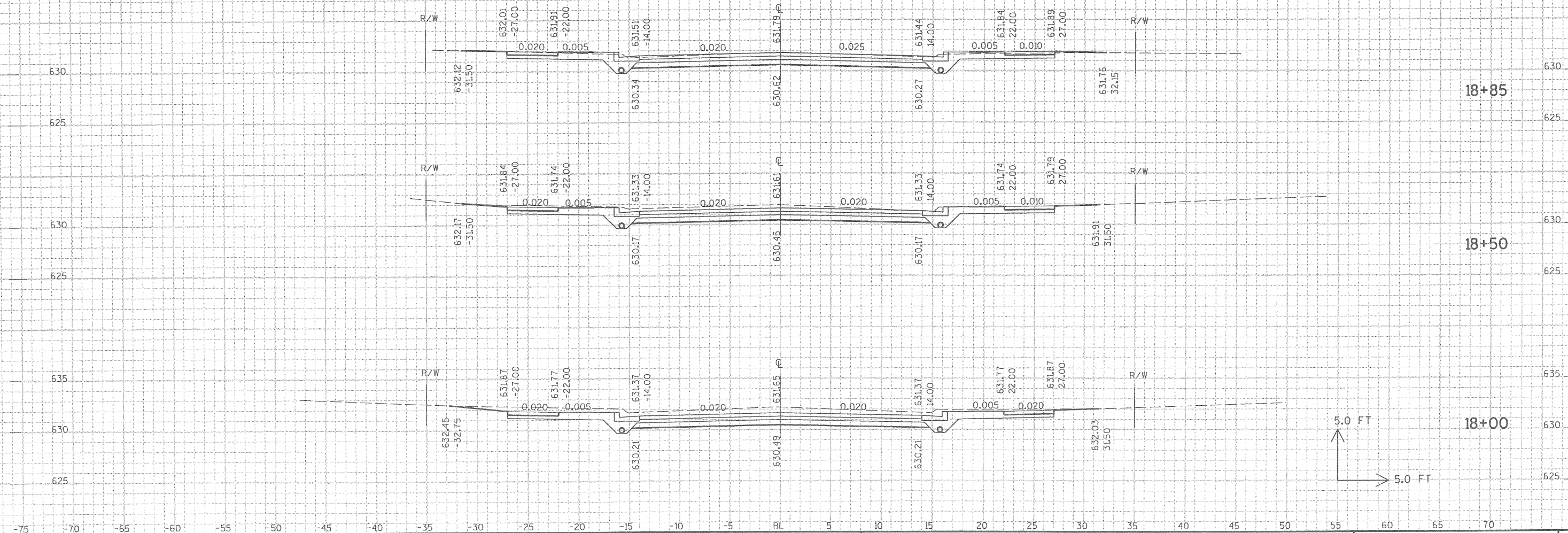
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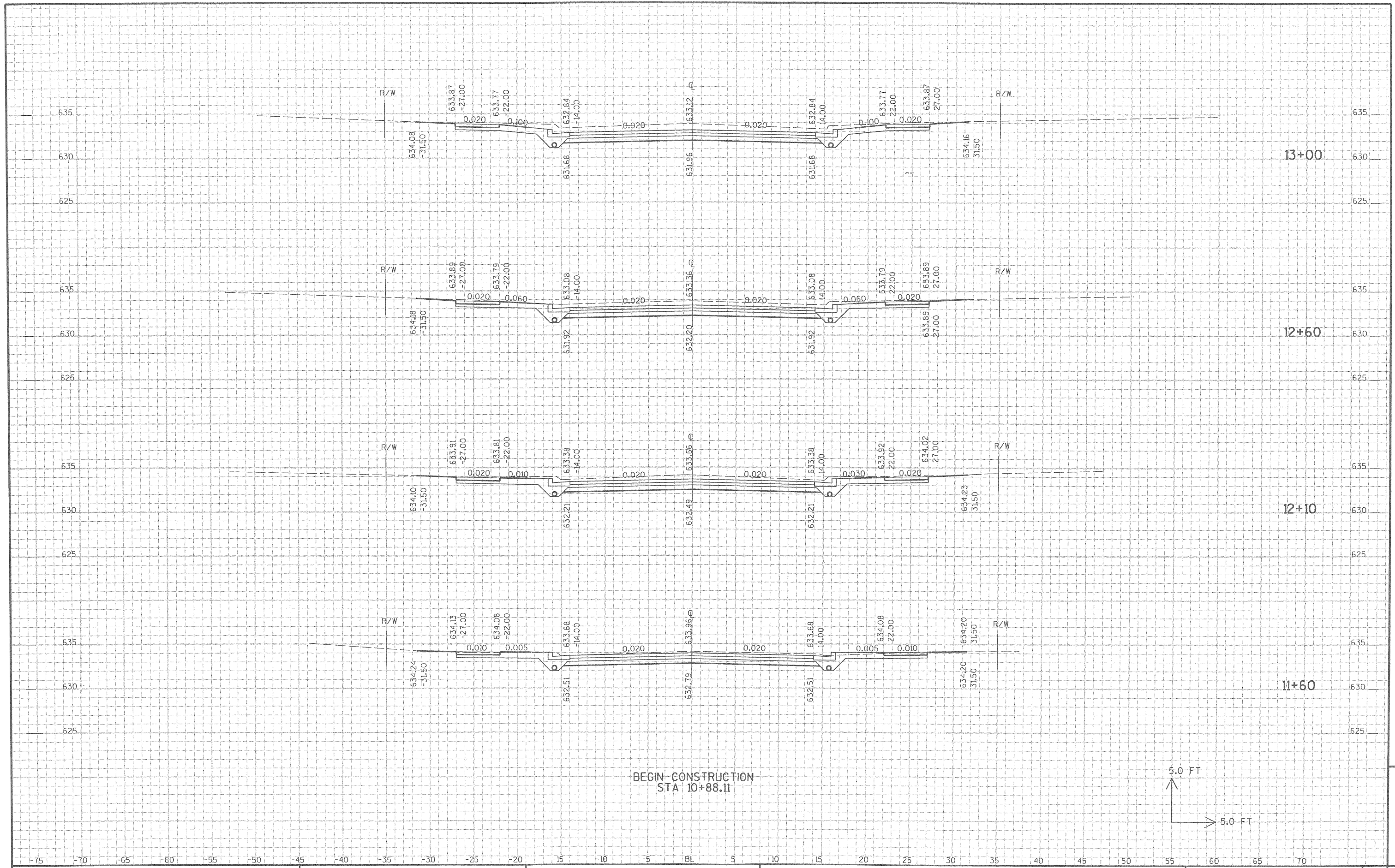




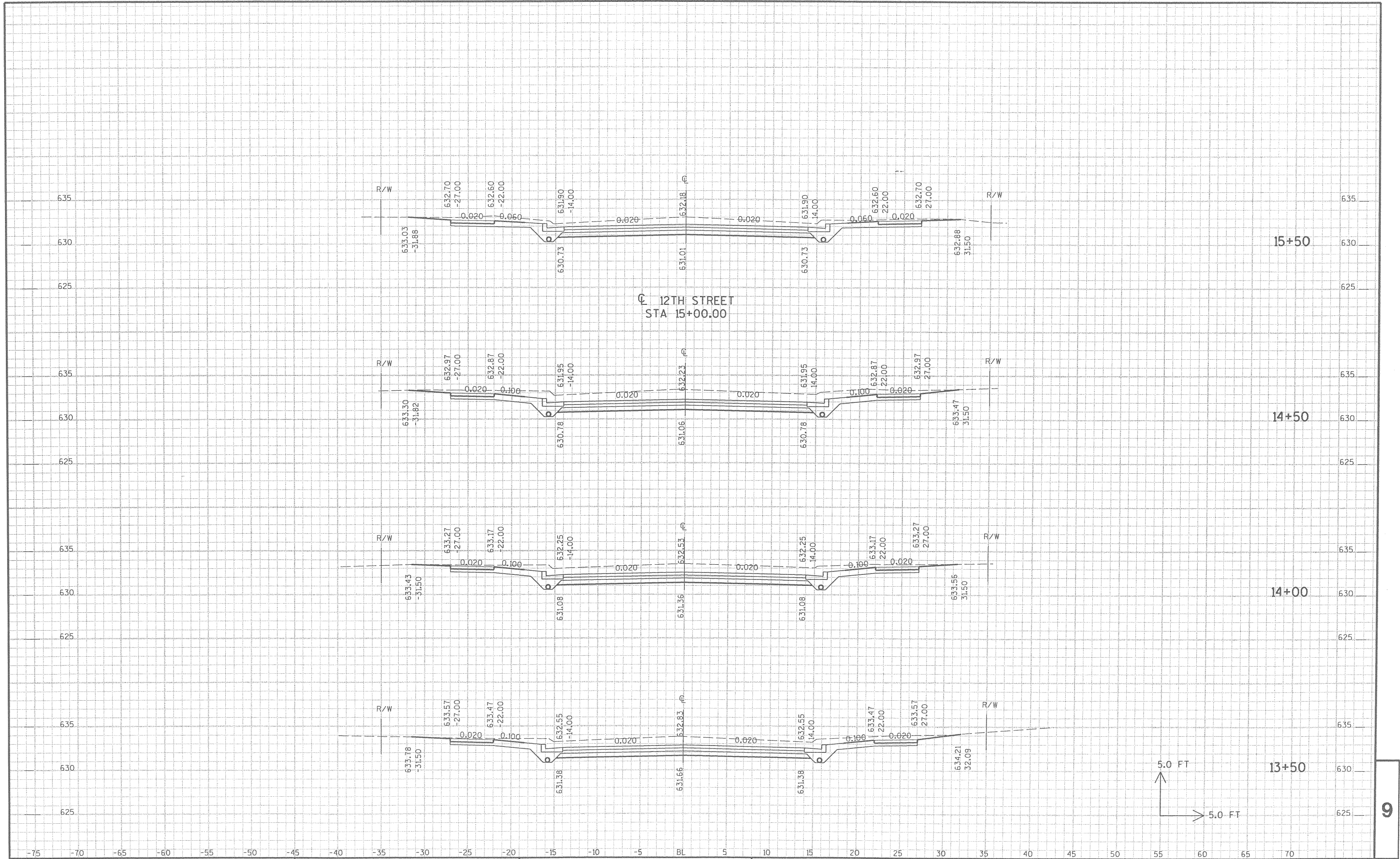
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END CONSTRUCTION
STA 19+12.34





SEH PROJECT NO : SUPER0004.00 HWY : 12TH STREET COUNTY : DOUGLAS CROSS SECTIONS - CUMMING AVENUE SHEET NO: E



SEH PROJECT NO : SUPER0004.00

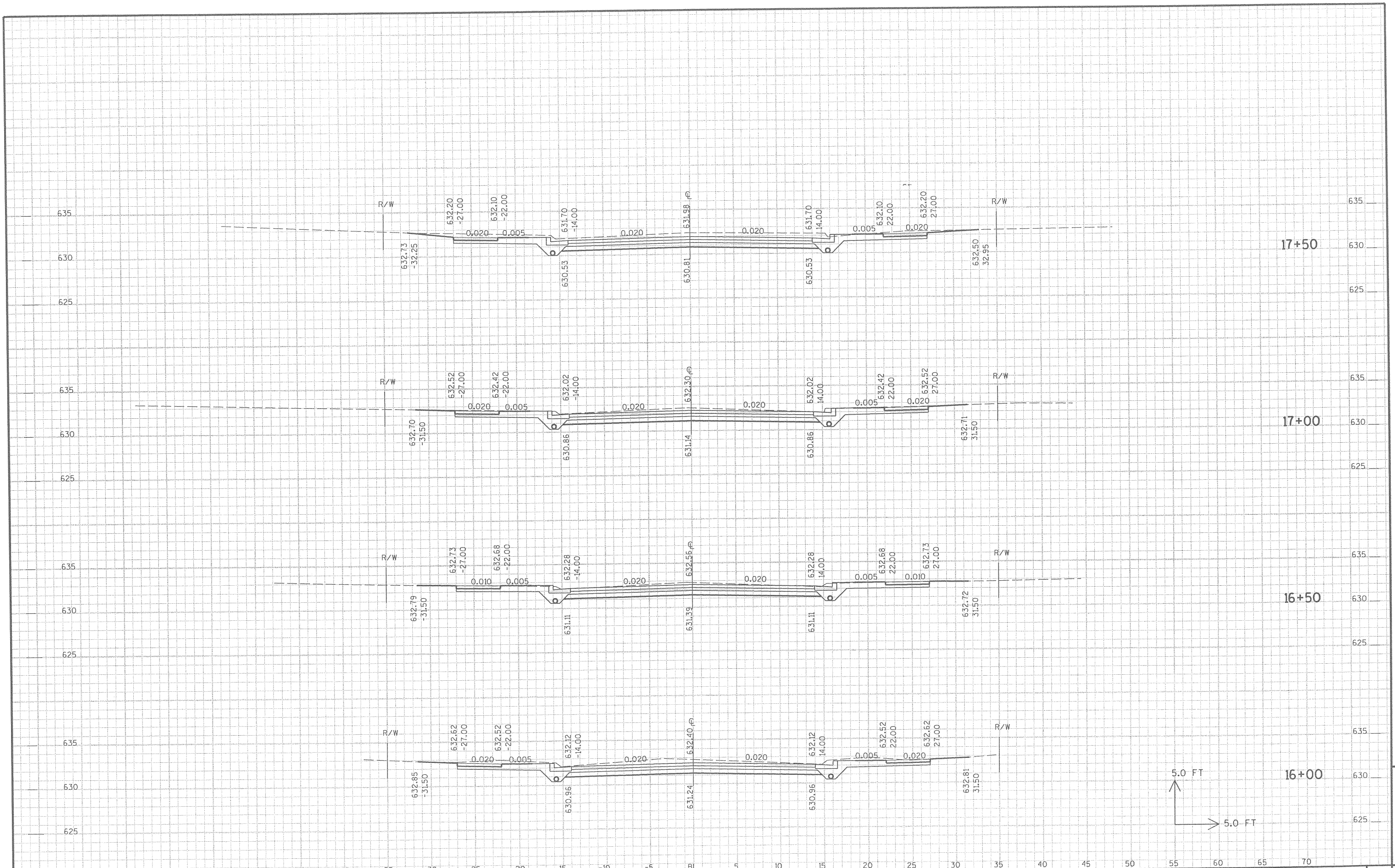
HWY : 12TH STREET

COUNTY : DOUGLAS

CROSS SECTIONS - CUMMING AVENUE

SHEET NO:

9



SEH PROJECT NO : SUPER0004.00

HWY : 12TH STREET

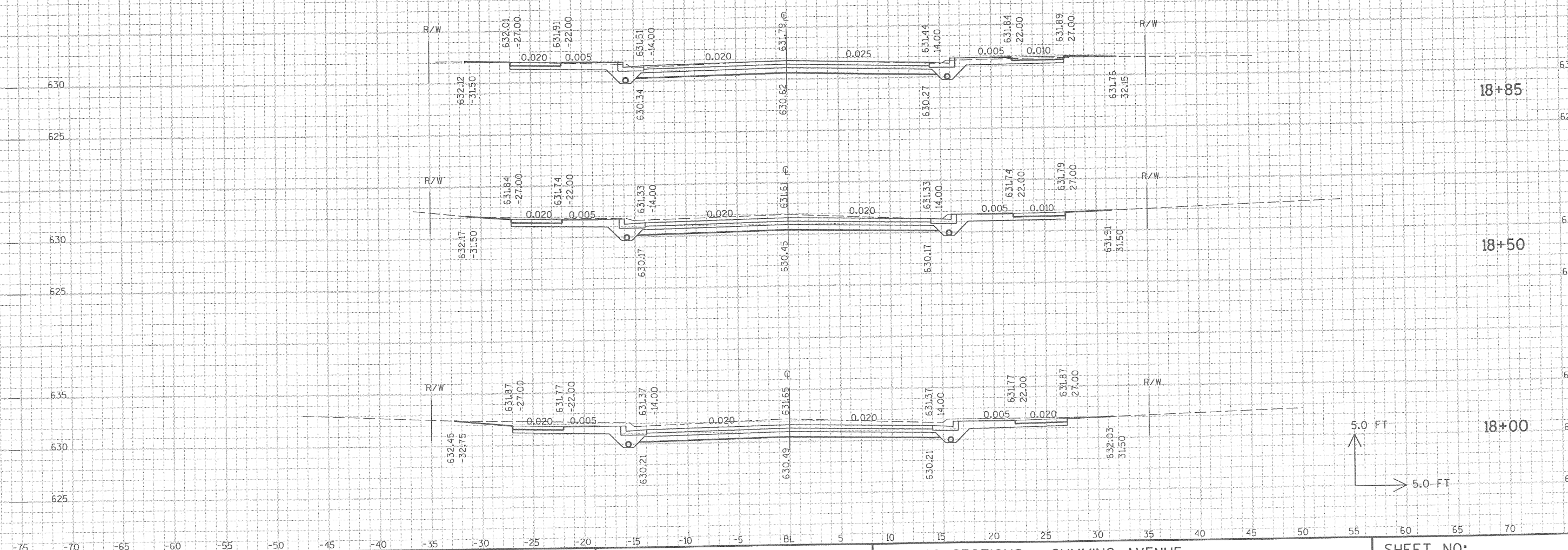
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CROSS SECTIONS - CUMMING AVENUE

SHEET NO:

E

END CONSTRUCTION
STA 19+12.34



SEH PROJECT NO : SUPER0004.00

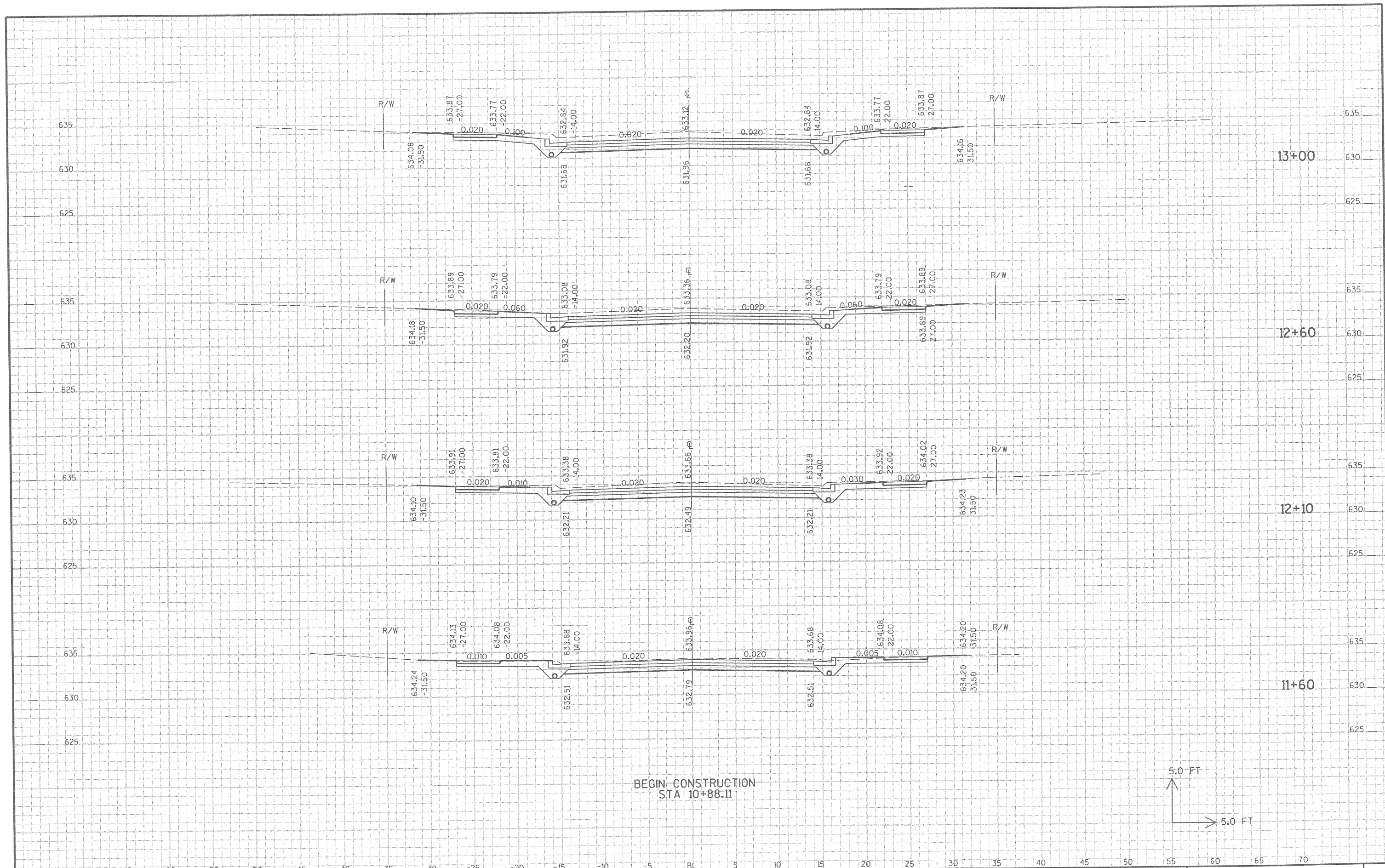
HWY : 12TH STREET

COUNTY : DOUGLAS

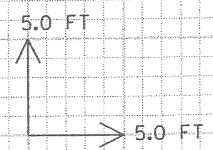
CROSS SECTIONS - CUMMING AVENUE

SHEET NO:

E



BEGIN CONSTRUCTION
STA 10+88.11



SEH PROJECT NO : SUPER0004.00

HWY : 12TH STREET

COUNTY : DOUGLAS

CROSS SECTIONS - CUMMING AVENUE

SHEET NO:

E